SWL

Mar 2017

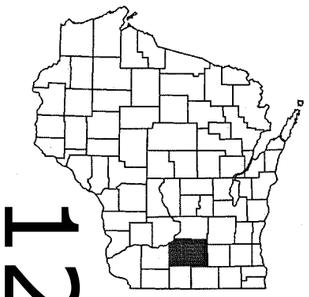
PROJECT ID: 5992-09-31-32

WITH: N/A

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control Plans)
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 770



12

COUNTY: DANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

CITY OF MADISON, McKEE ROAD

(MERITER WAY TO MAPLE GROVE DRIVE)

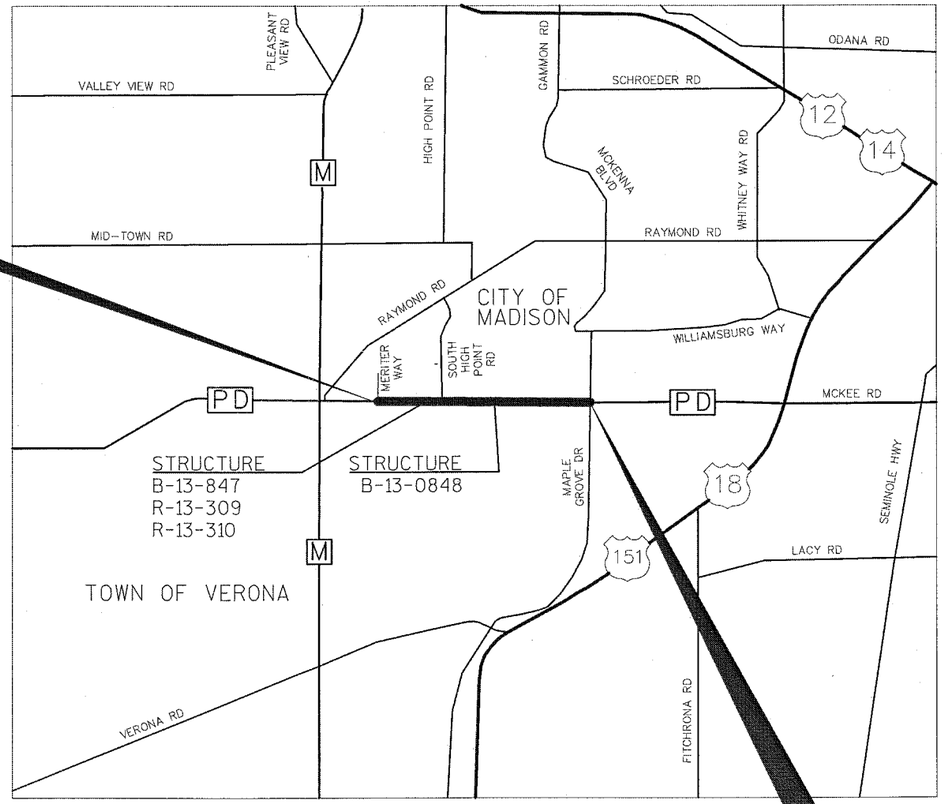
CTH PD

DANE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5992-09-31	WISC 2017101	1
5992-09-32		

STATE PROJECT NUMBER
5992-09-31

STATE PROJECT NUMBER
5992-09-32



T-7-N

T-6-N

R-8-E

BEGIN PROJECT 5992-09-31
STA. 110+63.07'WB'
Y= 461,443.99
X= 782,969.56

END PROJECT 5992-09-31
185+71.02'WB'

LAYOUT
SCALE 0 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 1.422

DESIGN DESIGNATION 5992-09-30

A.A.D.T.	2017	=	10,300-13,500
A.A.D.T.	2037	=	16,200-21,600
D.H.V.	2037	=	2,160
D.D.		=	59/41
T.		=	5.7
DESIGN SPEED		=	45 MPH
ESALS		=	2,400,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- HIGH VOLTAGE (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83 (1997), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88 2007).

ACCEPTED FOR
DANE COUNTY HIGHWAY DEPARTMENT

10/24/2016 (Date) (Signature)

ACCEPTED FOR
CITY OF MADISON

11/1/2016 (Date) (Signature)

ORIGINAL PLANS PREPARED BY

KL Engineering
[A] Better Experience

WISCONSIN
BRIAN W. VEIT
41689-006
OREGON, WI
PROFESSIONAL ENGINEER

10/17/2016 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	CITY OF MADISON/KL ENGINEERING
Designer	KL ENGINEERING
Manangement Consultant	CEDAR CORPORATION

APPROVED FOR THE DEPARTMENT

DATE: 11-1-2016 (Signature) Management Consultant

E

2

ABBREVIATIONS

BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
BLDG.	BUILDING
CTR	CENTER
C/L	CENTERLINE
C.E.	COMMERCIAL ENTRANCE
CONC.	CONCRETE
CSW	CONCRETE SIDEWALK
CMCP	CORRUGATED METAL CULVERT PIPE
CP	CULVERT PIPE
CPCS	CULVERT PIPE CORRUGATED STEEL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CPT	CONSTRUCTION PERMIT
EB	EASTBOUND
ELEC	ELECTRIC
IE	INVERT ELEVATION
EX.	EXISTING
FO	FIBER OPTIC
F.E.	FIELD ENTRANCE
GAS	GAS
HMA	HOT MIX ASPHALT
HSE.	HOUSE
LHF	LEFT HAND FORWARD
MH	MANHOLE
MAX.	MAXIMUM
MIN.	MINIMUM
NOR.	NORMAL
NTS	NOT TO SCALE
PLE	PERMANENT LIMITED EASEMENT
P.E.	PRIVATE ENTRANCE
P.L.	PROPERTY LINE
PROP.	PROPOSED
PRW	PROPOSED RIGHT-OF-WAY
RAD	RADIUS
R/L	REFERENCE LINE
RCCP	REINFORCED CONCRETE CULVERT PIPE
REQ'D.	REQUIRED
RHF	RIGHT HAND FORWARD
RW	RIGHT-OF-WAY LINE
SAN	SANITARY SEWER
SHLD	SHOULDER
SW	SIDEWALK
SF	SQUARE FEET
SY	SQUARE YARD
S.D.D.	STANDARD DETAIL DRAWING
STA	STATION
SS	STORM SEWER
TEL	TELEPHONE
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
WAT	WATER
WB	WESTBOUND

ORDER OF DETAIL SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL
STORM SEWER
MUNICIPAL UTILITY
SPECIALTY SEEDING PLAN
PERMANENT SIGNING
TRAFFIC SIGNAL & LIGHTING
TEMPORARY TRAFFIC SIGNAL
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT DETAILS
CONTROL POINT

UTILITY CONTACTS

** Not a member of Diggers Hotline

ELECTRIC

Debbie Woods
Alliant Energy Corporation
2147 Country Road PB
Verona, WI 53593
debbiewoods@alliantenergy.com

ELECTRIC **

Brad Vosters
ATC Management, Inc. - Electricity
5303 Fen Oak Court
Madison, WI 54718
(608) 877-3541
bvosters@atcllc.com

COMMUNICATIONS & STREET LIGHTS

Brian Smith
City of Madison Engineering
215 Martin Luther King Jr. Blvd., Room 100
Madison, WI 53701
(608) 261-9625
bsmith@cityofmadison.com

COMMUNICATIONS

Jerry Myers
TDS Telecom - Verona Exchange
525 Junction Road
Madison, WI 53717
(608) 664-4404
jerry.myers@tdstelecom.com

COMMUNICATIONS

Tom Payne
Charter Communications
2701 Daniels Street
Madison,WI 53718
(608) 274-3822
tom.payne@charter.com

COMMUNICATIONS

Kirk Thoelke
Lightcore (CenturyLink Company)
1151 CenturyTel Drive (Building A)
Wentzville, MO 63385
(636) 887-4753
kirk.thoelke@centurylink.com

SANITARY SEWER

Mark Moder
City of Madison Engineering
210 Martin Luther King Jr. Blvd., Room 115
Madison, WI 53703
(608) 261-9250
mmoder@cityofmadison.com

GAS

Steve Beversdorf
Madison Gas & Electric Company
133 Blair Street
Madison, WI 53788
(608) 252-1552
sbeversdorf@mge.com

SANITARY SEWER

Eric Hjellen
Madison Metro Sewerage District
1610 Moorland Road
Madison, WI 53713
(608) 222-1201
erich@madsewer.org

WATER

Adam Wiederhoeft
Madison Water Utility
119 E. Olin Avenue
Madison, WI 53713
(608) 266-9121
awiederhoefft@madisonwater.org

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

DANE COUNTY HIGHWAY

PAM DUNPHY, P.E.
2302 FISH HATCHERY ROAD
MADISON, WI 53703
(608) 266-4038
dunphy@countyofdane.com

DESIGN CONTACT

BRIAN W. VEIT, P.E.
KL ENGINEERING, INC.
5950 SEMINOLE CENTRE CT
SUITE 200
MADISON, WI 53711
(608) 663-1218
bveit@klengineering.com

CITY OF MADISON

CHRIS PETYKOWSKI, P.E.
210 MARTIN LUTHER KING BLVD
MADISON, WI 53703
(608) 267-8678
CPETYKOWSKI@CITYOFMADISON.COM

DNR LIAISON

ERIC HEGGELUND
DEPARTMENT OF NATURAL RESOURCES
DNR SOUTH CENTRAL REGION HEADQUARTERS
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
(608) 275-3301
eric.heggelund@wisconsin.gov

GENERAL NOTES

ALL RADII DIMENSIONS ARE MEASURED TO THE FLANGE OF CURB UNLESS OTHERWISE NOTED.

ALL GRADES PROVIDED ALONG RADII ARE ALONG EDGE OF PAVEMENT.

EXPANSION JOINTS TO BE CONSTRUCTED AT ALL RADII POINTS IN THE CURB AND GUTTER OR AT LOCATIONS SHOWN ON THE PLANS.

THE LOCATION OF EXISTING AND PROPOSED UTILITIES INSTALLATIONS AS SHOWN IN THE PLANS, ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

UTILITY REFERENCE LINES ON THE CROSS SECTIONS ARE FOR APPROXIMATE HORIZONTAL REFERENCE ONLY.

REMOVAL ITEMS REQUIRING RESTORATION OF CONCRETE OR ASPHALT SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

NO TREES AND/OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER. TREES WITHIN THE TLE ARE REMAIN UNLESS OTHERWISE NOTED IN THE PLAN.

PIPE ELEVATIONS, LENGTHS, AND LOCATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED TO FIT EXISTING FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

CONTRACTOR IS RESPONSIBLE FOR RESHAPING AND FINISHING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY THEIR OPERATION OUTSIDE THE NORMAL CONSTRUCTION LIMITS.

SIDEROAD PAVEMENT STRUCTURE SHALL BE THE SAME AS THE MAINLINE UNLESS OTHERWISE NOTED.

TEMPORARY STORAGE OF ANY EXCAVATION EQUIPMENT OR MATERIALS WILL NOT BE PERMITTED IN WETLANDS, FLOODPLAIN OF ANY WETLANDS.

WETLANDS ARE PRESENT AT THE LOCATIONS SHOWN ON THE PLANS. DO NOT OPERATE MACHINERY OUTSIDE OF THE SLOPE INTERCEPTS IN THESE LOCATIONS.

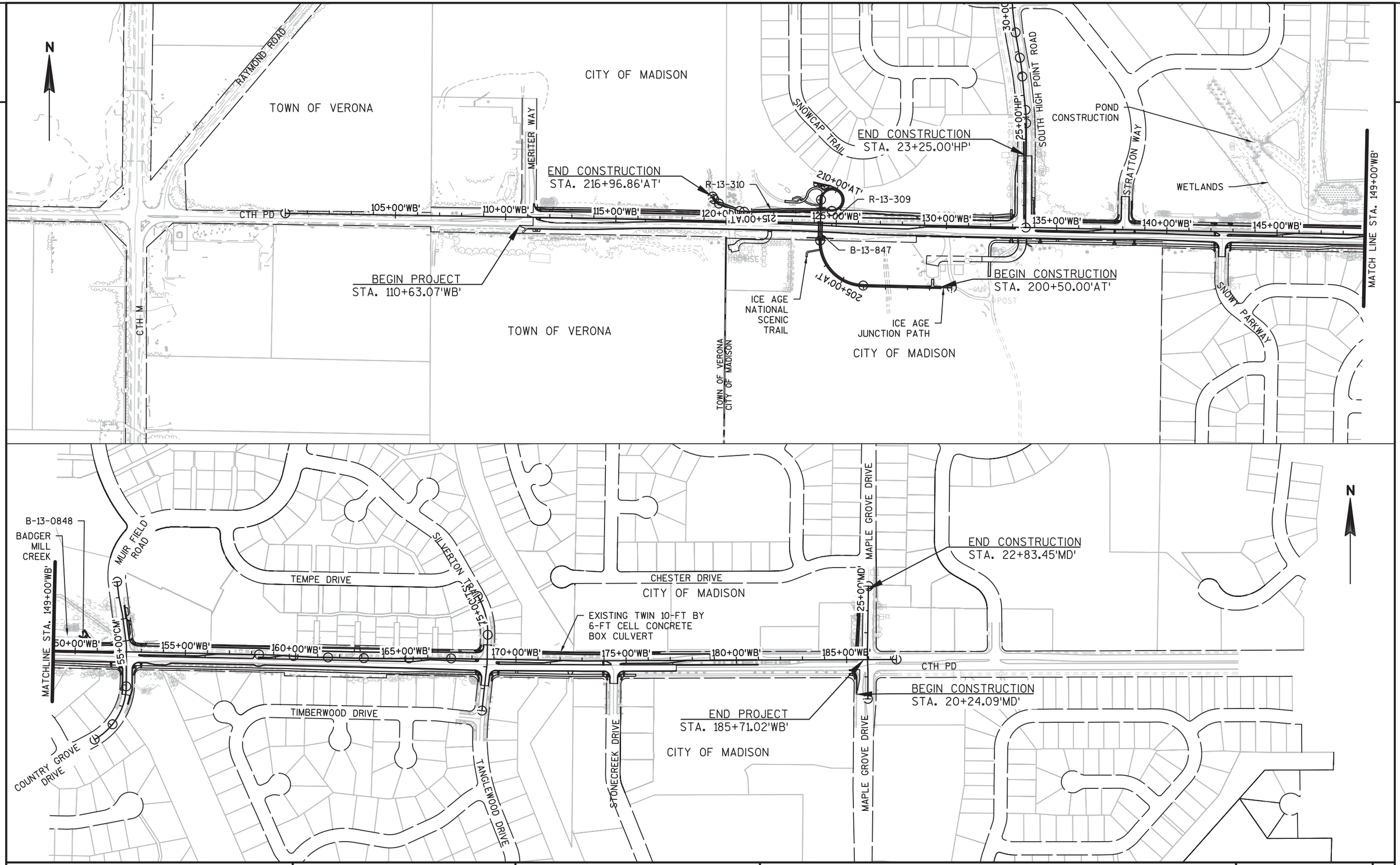
HMA PAVEMENT, WHEN INDICATED ON THE PLANS, SHALL CONSIST OF COURSES AS FOLLOWS UNLESS OTHERWISE NOTED ON THE PLANS.

6.5-INCHES TOTAL DEPTH	TYPE
4-INCHES LOWER	3 MT 58-28 S
2.5-INCHES UPPER	4 MT 58-28 H

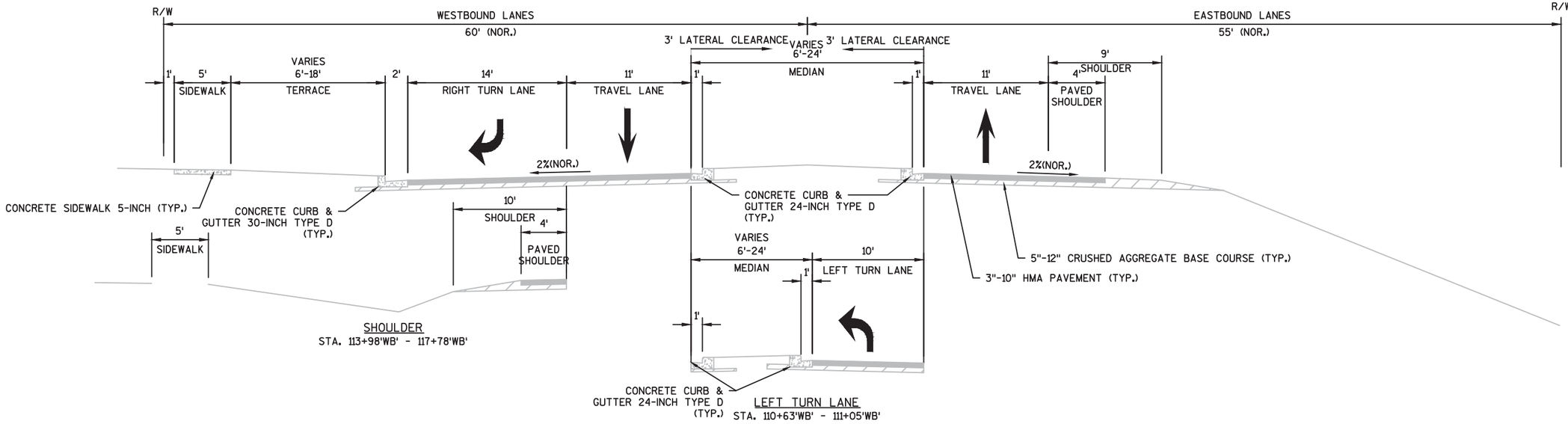
3-INCHES TOTAL DEPTH	TYPE
3-INCHES	3 LT 58-28 S

THE CONTRACTOR'S HMA PAVING OPERATION SHALL BE CONSISTENT WITH THE TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING OR PARKING LANE.

2

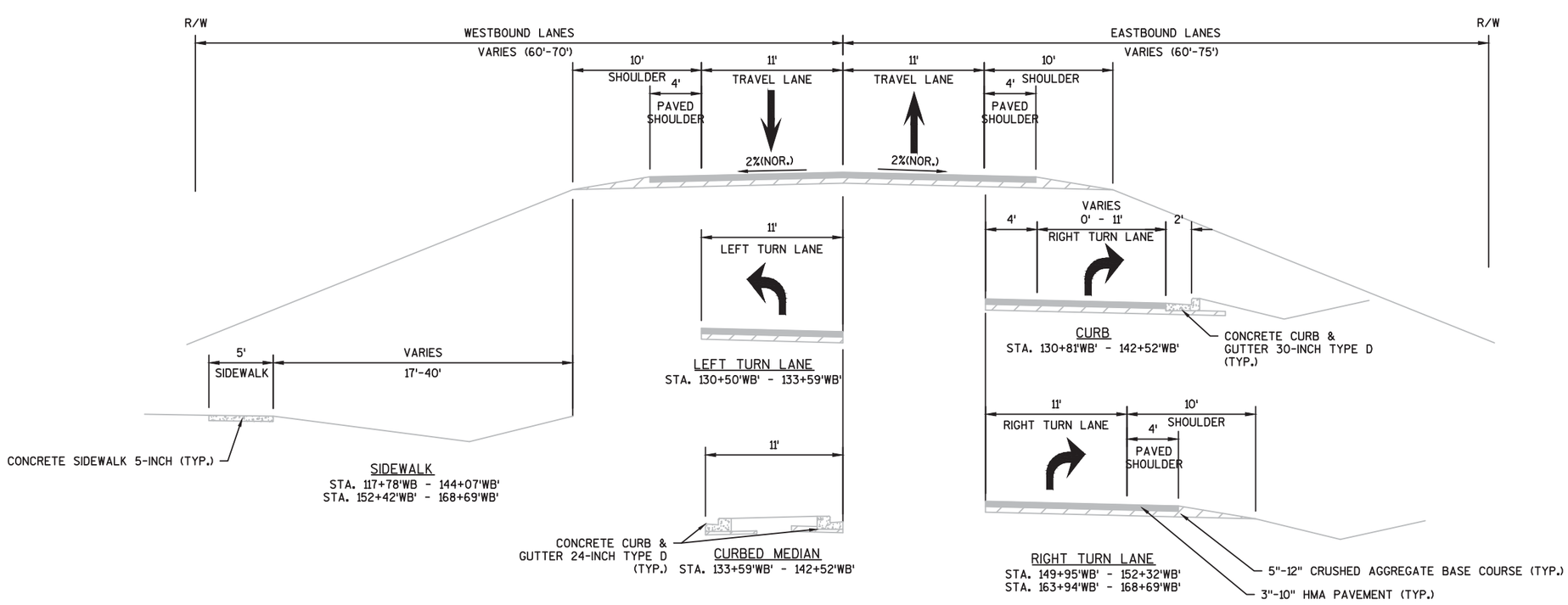


PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PROJECT OVERVIEW	SHEET 3	E



EXISTING TYPICAL SECTION, CTH PD

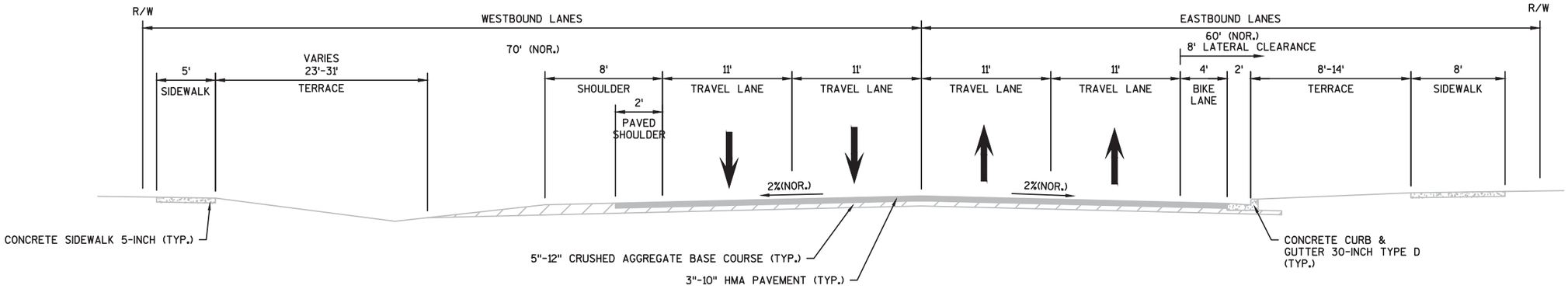
STA. 110+63'WB' - 117+78'WB'



EXISTING TYPICAL SECTION, CTH PD

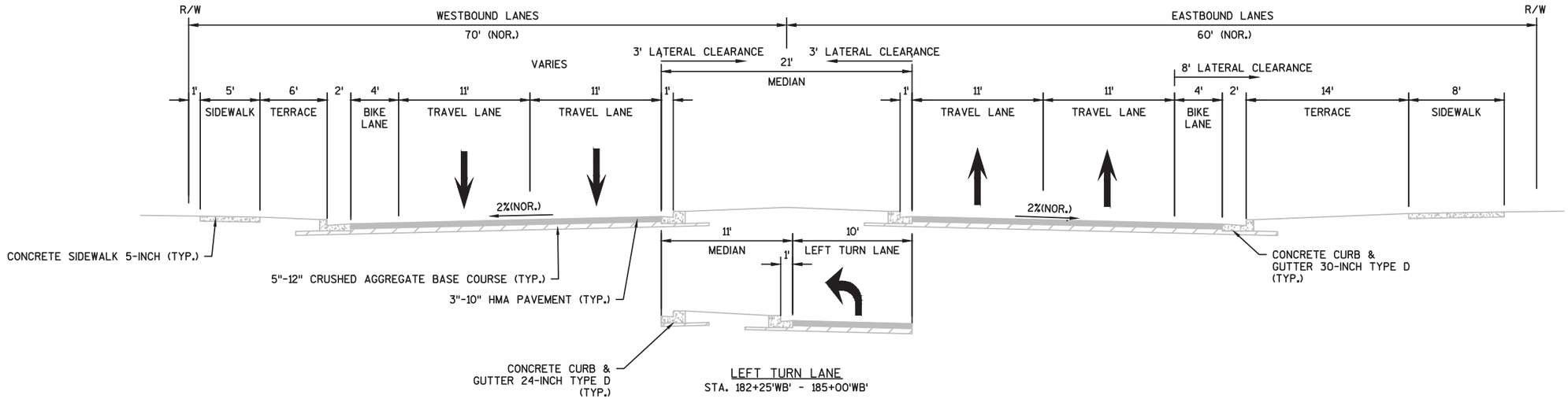
STA. 117+78'WB' - STA. 168+69'WB'

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TYPICAL SECTIONS	SHEET 4	E



EXISTING TYPICAL SECTION, CTH PD

STA. 168+69'WB' - STA. 174+83'WB'



LEFT TURN LANE

STA. 182+25'WB' - 185+00'WB'

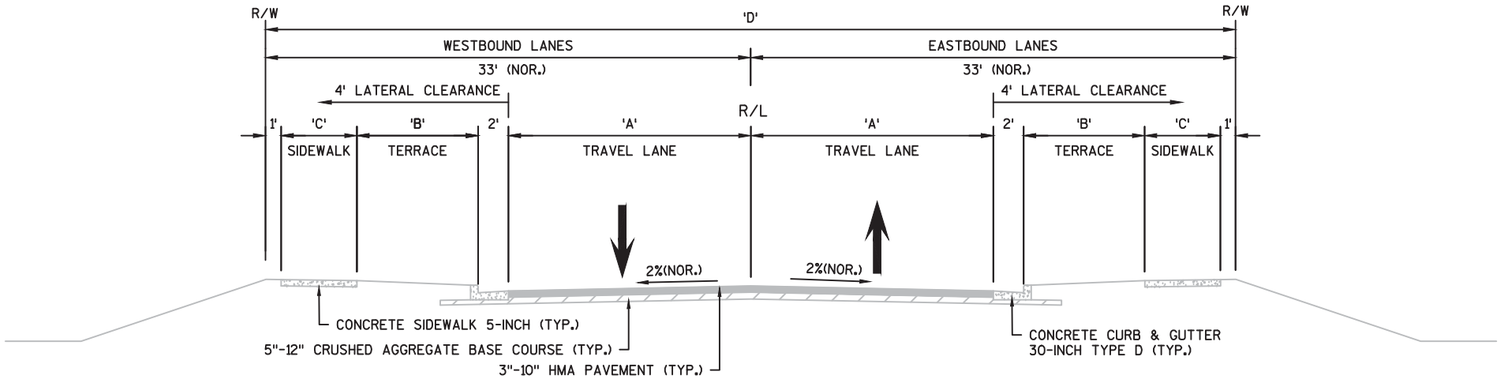
EXISTING TYPICAL SECTION, CTH PD

STA 174+83'WB' - STA. 180+98'WB'

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TYPICAL SECTIONS	SHEET 5	E

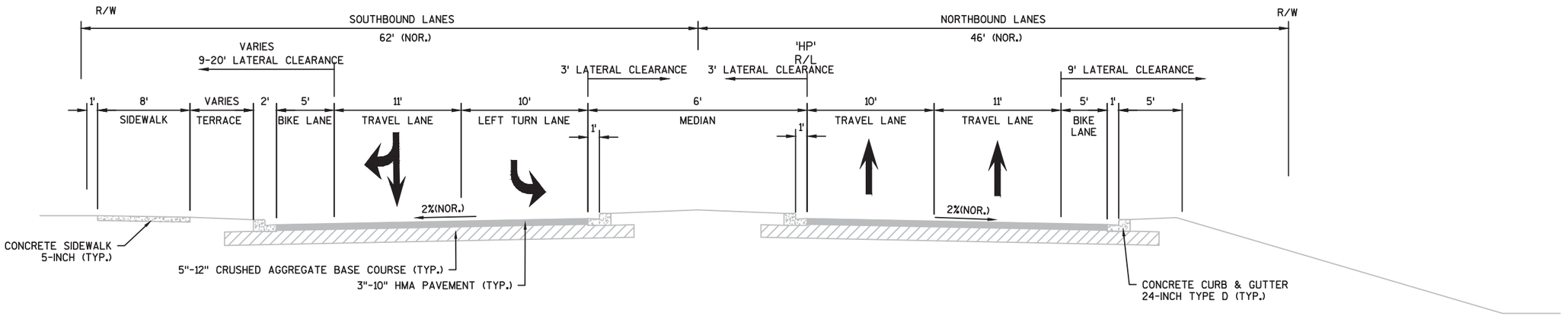
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TYPICAL SECTION\020301-TS-EX.DWG
LAYOUT NAME - ****

PLOT DATE : 10/17/2016 1:50 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:10 FT



EXISTING TYPICAL SECTION, SIDEROADS

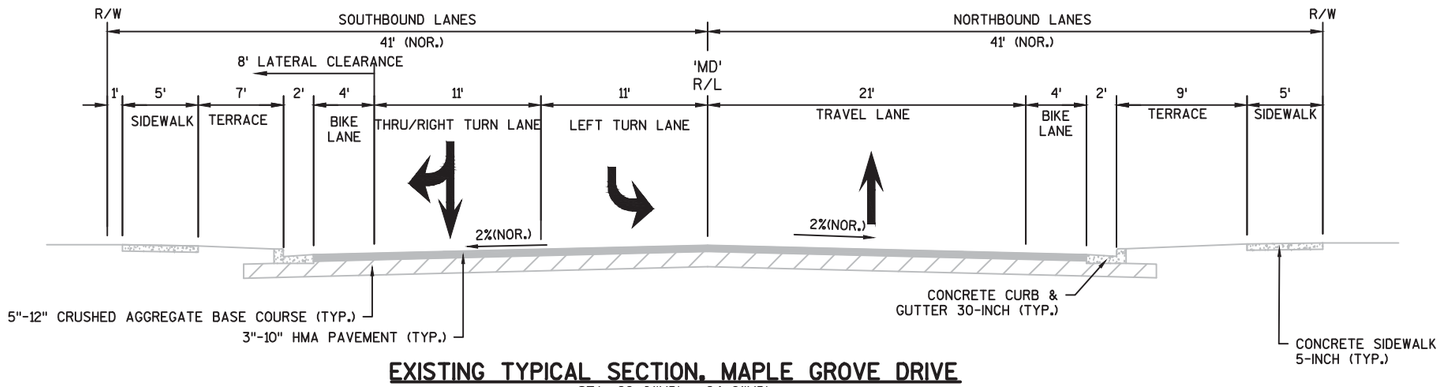
ROADWAY NAME	DRIVING LANE WIDTH 'A'	TERRACE WIDTH 'B'	SIDEWALK WIDTH 'C'	RIGHT-OF-WAY WIDTH 'D'
STRATTON WAY	16'	9'	5'	66'
SNOWY PARKWAY	14'	8'	5'	60'
MUIR FIELD DRIVE	20'	12'	5'	66'
COUNTRY GROVE DRIVE	18'	8'	5'	66'
SILVERTON TRAIL	16'	9'	5'	66'
TANGLEWOOD DRIVE	16'	9'	5'	66'
STONECREEK DRIVE	16'	9'	5'	66'



EXISTING TYPICAL SECTION, SOUTH HIGH POINT ROAD

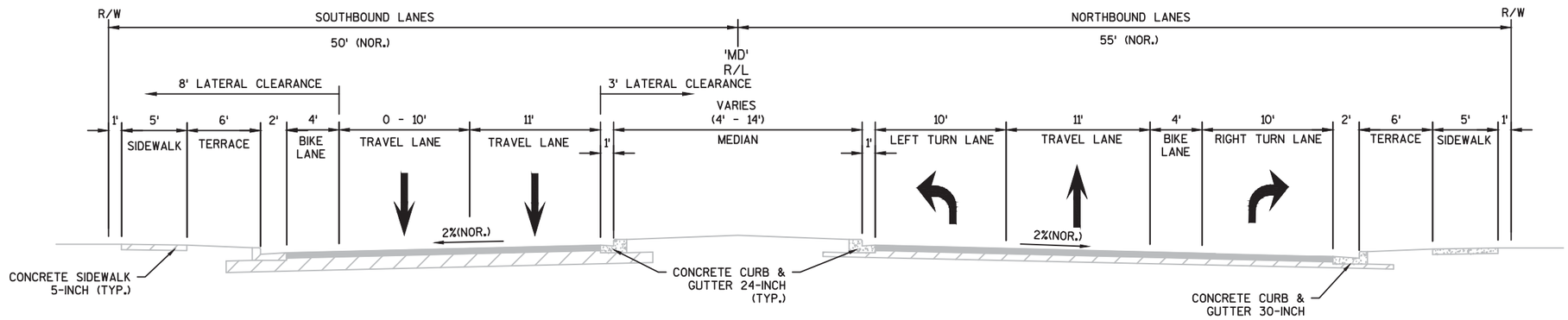
STA. 20+00'HP' - STA. 24+73'HP'

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TYPICAL SECTIONS	SHEET 6	E



EXISTING TYPICAL SECTION, MAPLE GROVE DRIVE

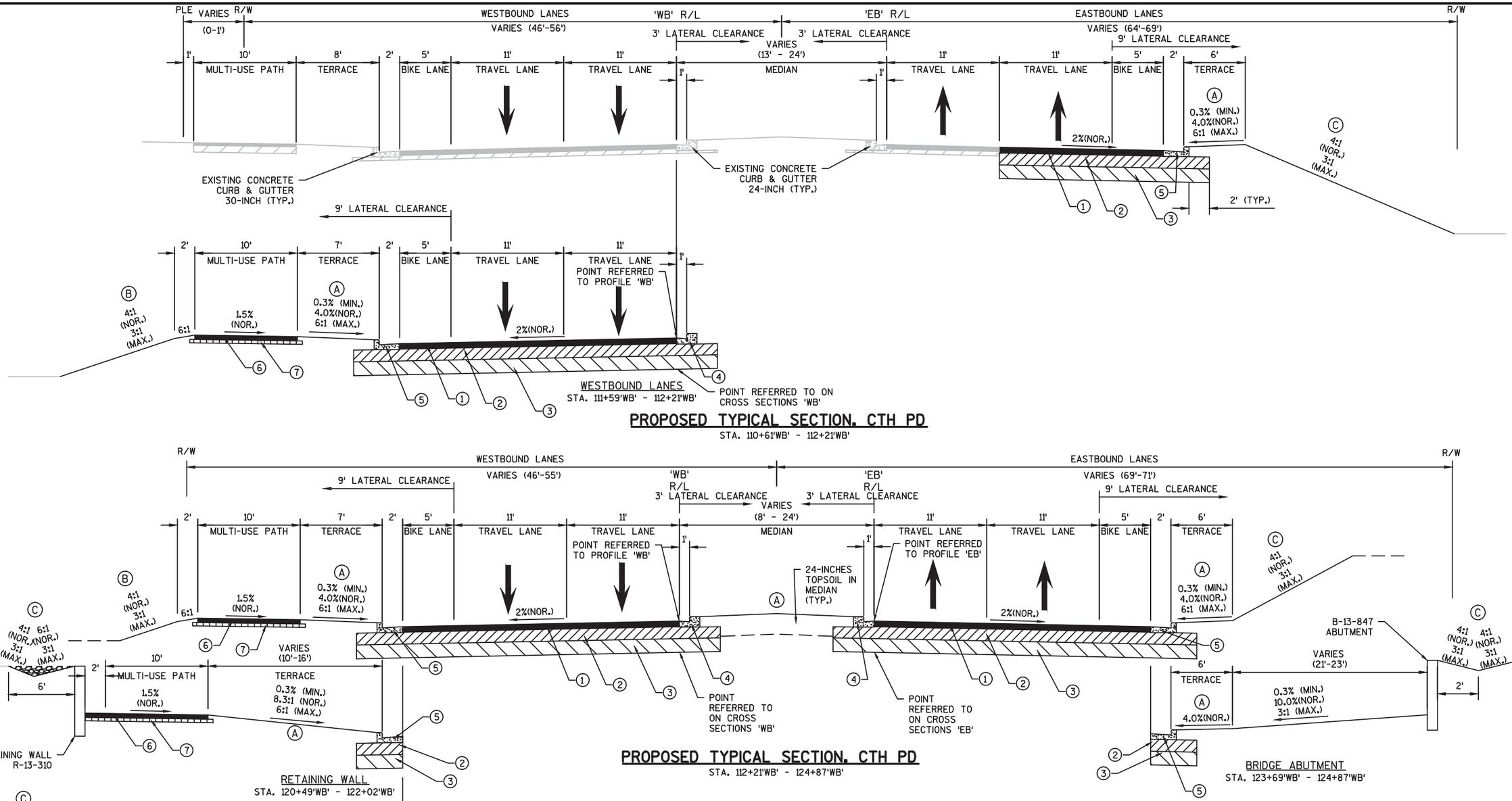
STA. 22+01'MD' - 24+61'MD'



EXISTING TYPICAL SECTION, MAPLE GROVE DRIVE

STA. 20+49'MD' - 21+34'MD'

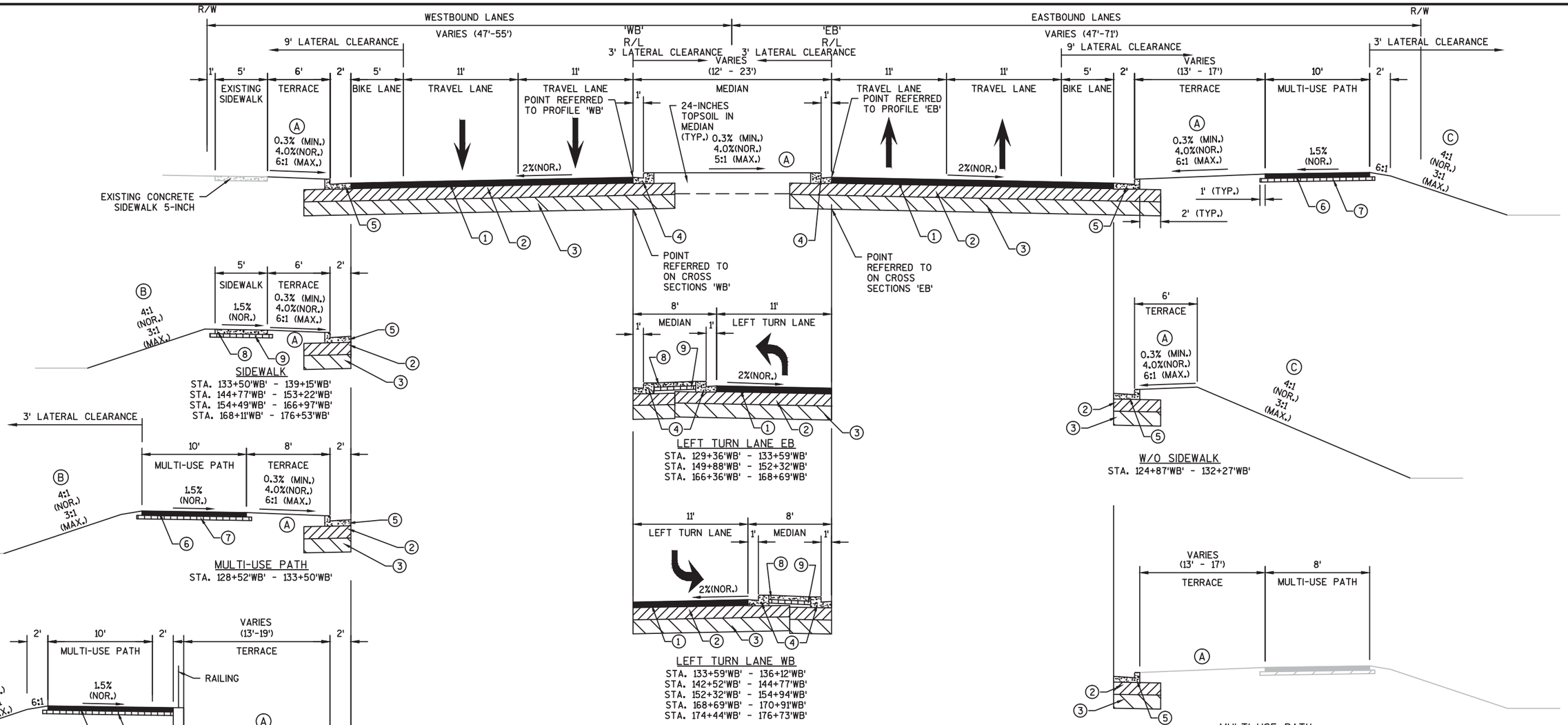
PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TYPICAL SECTIONS	SHEET 7	E



LEGEND

(1)	LOWER: 4-INCHES HMA PAVEMENT 3 MT 58-28 S UPPER: 2.5-INCHES HMA PAVEMENT 4 MT 58-28 H	(7)	6-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES
(2)	14-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES	(8)	CONCRETE SIDEWALK 5-INCH
(3)	16-INCHES SELECT CRUSHED MATERIAL	(9)	4-INCHES BASE AGGREGATE DENSE 3/4-INCHES
(4)	CONCRETE CURB & GUTTER, TYPE D 24-INCH SPECIAL	(10)	12-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES
(5)	CONCRETE CURB & GUTTER, TYPE D 30-INCH	(A)	TOPSOIL, FERTILIZER TYPE B & SOD LAWN
(6)	3-INCHES HMA PAVEMENT 3 LT 58-28 S	(B)	TOPSOIL, FERTILIZER TYPE B & SEEDING MIXTURE NO. 40
		(C)	TOPSOIL, FERTILIZER TYPE B & NO MOW SEED MIXTURE

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TYPICAL SECTIONS	SHEET 8	E



PROPOSED TYPICAL SECTION, CTH PD

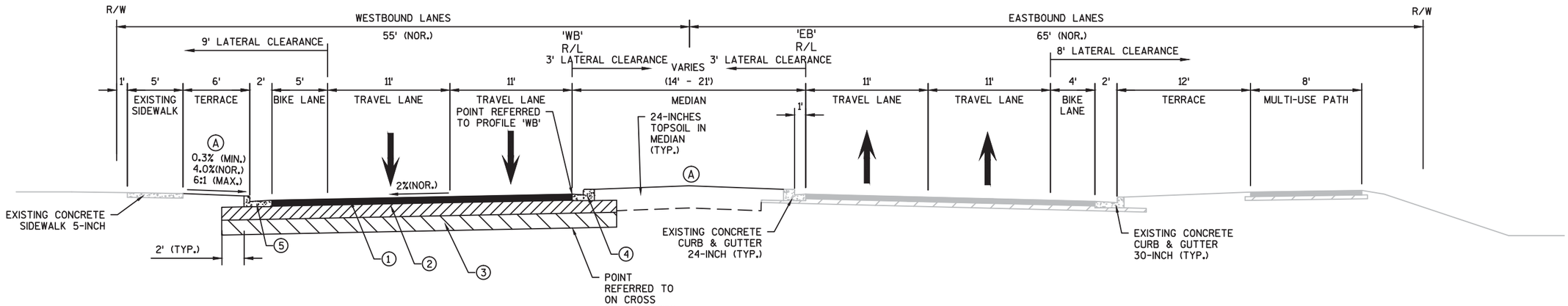
STA. 124+87'WB' - 177+28'WB'

LEGEND

(1)	LOWER: 4-INCHES HMA PAVEMENT 3 MT 58-28 S UPPER: 2.5-INCHES HMA PAVEMENT 4 MT 58-28 H	(7)	6-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES
(2)	14-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES	(8)	CONCRETE SIDEWALK 5-INCH
(3)	16-INCHES SELECT CRUSHED MATERIAL	(9)	4-INCHES BASE AGGREGATE DENSE 3/4-INCHES
(4)	CONCRETE CURB & GUTTER, TYPE D 24-INCH SPECIAL	(10)	12-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES
(5)	CONCRETE CURB & GUTTER, TYPE D 30-INCH	(A)	TOPSOIL, FERTILIZER TYPE B & SOD LAWN
(6)	3-INCHES HMA PAVEMENT 3 LT 58-28 S	(B)	TOPSOIL, FERTILIZER TYPE B & SEEDING MIXTURE NO. 40
		(C)	TOPSOIL, FERTILIZER TYPE B & NO MOW SEED MIXTURE

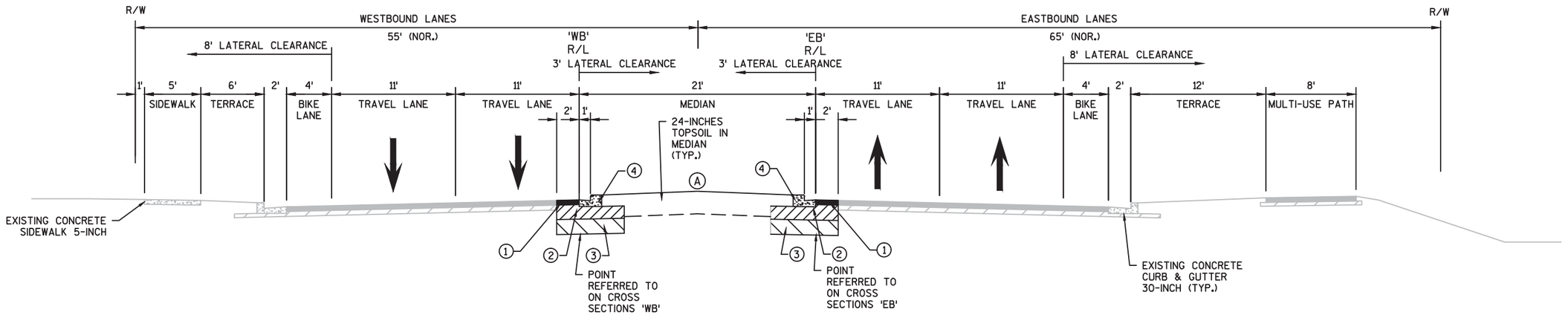
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TYPICAL SECTIONS	SHEET 9	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TYPICAL SECTION\020302-TS-PROP.DWG
LAYOUT NAME - ****
PLOT DATE : 11/30/2016 9:11 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



PROPOSED TYPICAL SECTION, CTH PD

STA. 177+28'WB' - 178+81'WB'



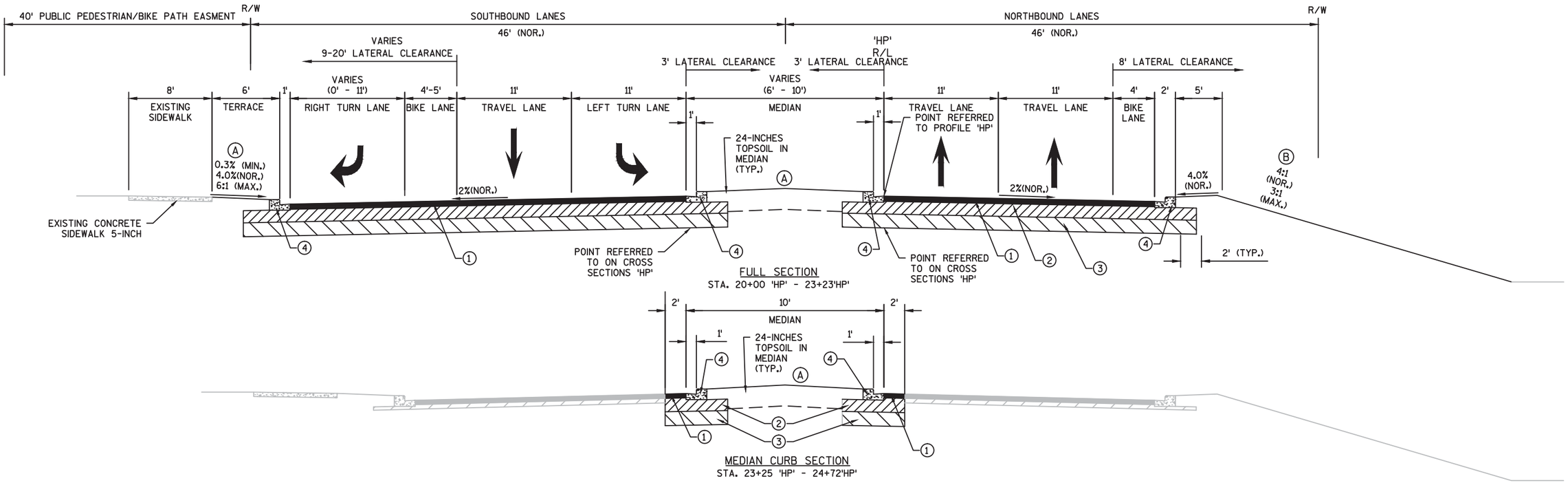
PROPOSED TYPICAL SECTION, CTH PD

STA. 178+81'WB' - 180+98'WB'

LEGEND

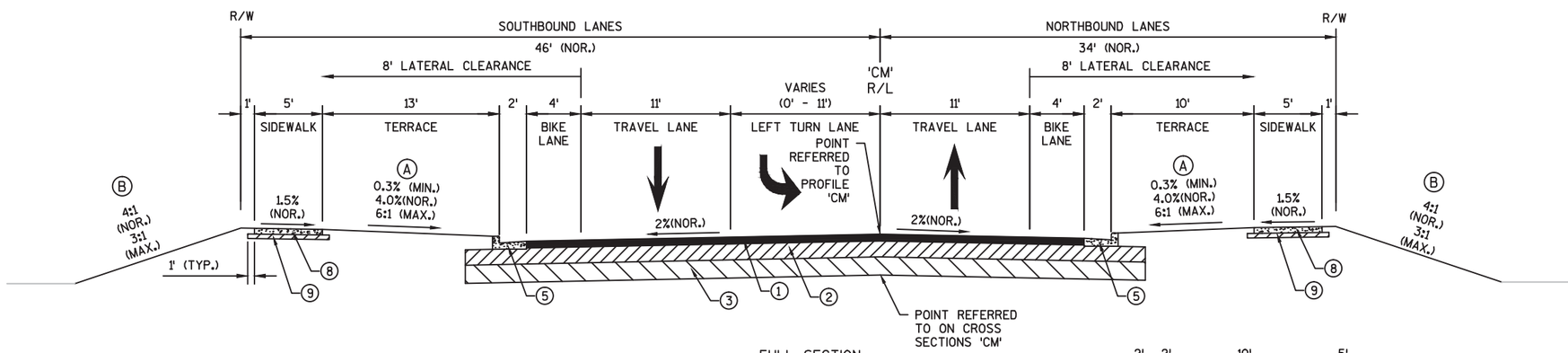
(1)	LOWER: 4-INCHES HMA PAVEMENT 3 MT 58-28 S UPPER: 2.5-INCHES HMA PAVEMENT 4 MT 58-28 H	(7)	6-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES
(2)	14-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES	(8)	CONCRETE SIDEWALK 5-INCH
(3)	16-INCHES SELECT CRUSHED MATERIAL	(9)	4-INCHES BASE AGGREGATE DENSE 3/4-INCHES
(4)	CONCRETE CURB & GUTTER, TYPE D 24-INCH SPECIAL	(10)	12-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES
(5)	CONCRETE CURB & GUTTER, TYPE D 30-INCH	(A)	TOPSOIL, FERTILIZER TYPE B & SOD LAWN
(6)	3-INCHES HMA PAVEMENT 3 LT 58-28 S	(B)	TOPSOIL, FERTILIZER TYPE B & SEEDING MIXTURE NO. 40
		(C)	TOPSOIL, FERTILIZER TYPE B & NO MOW SEED MIXTURE

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TYPICAL SECTIONS	SHEET 10	E



PROPOSED TYPICAL SECTION, SOUTH HIGH POINT ROAD

STA. 20+00'HP' - 24+72'HP'



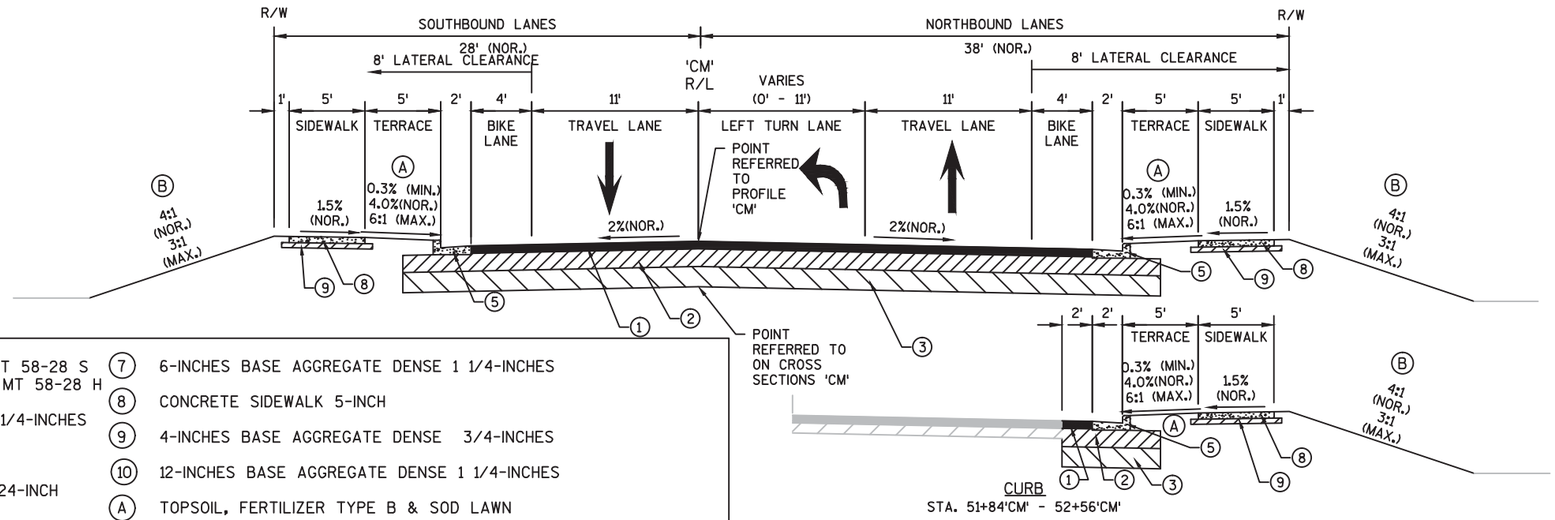
PROPOSED TYPICAL SECTION, MUIR FIELD ROAD

STA. 54+50'CM' - 56+60'CM'

LEGEND

(1)	LOWER: 4-INCHES HMA PAVEMENT 3 MT 58-28 S UPPER: 2.5-INCHES HMA PAVEMENT 4 MT 58-28 H	(7)	6-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES
(2)	14-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES	(8)	CONCRETE SIDEWALK 5-INCH
(3)	16-INCHES SELECT CRUSHED MATERIAL	(9)	4-INCHES BASE AGGREGATE DENSE 3/4-INCHES
(4)	CONCRETE CURB & GUTTER, TYPE D 24-INCH SPECIAL	(10)	12-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES
(5)	CONCRETE CURB & GUTTER, TYPE D 30-INCH	(A)	TOPSOIL, FERTILIZER TYPE B & SOD LAWN
(6)	3-INCHES HMA PAVEMENT 3 LT 58-28 S	(B)	TOPSOIL, FERTILIZER TYPE B & SEEDING MIXTURE NO. 40
		(C)	TOPSOIL, FERTILIZER TYPE B & NO MOW SEED MIXTURE

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TYPICAL SECTIONS	SHEET 11	E

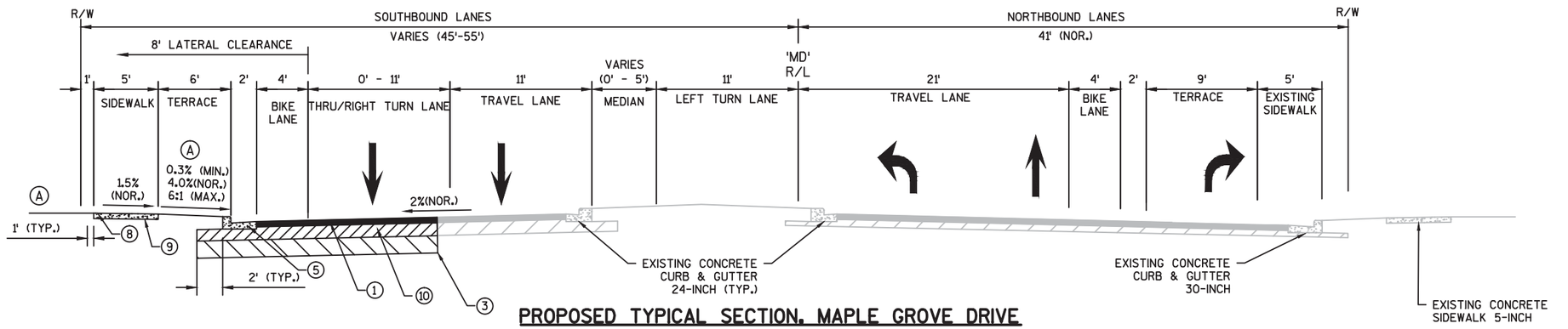


PROPOSED TYPICAL SECTION, COUNTRY GROVE DRIVE

STA. 51+84'CM' - 54+31'CM'

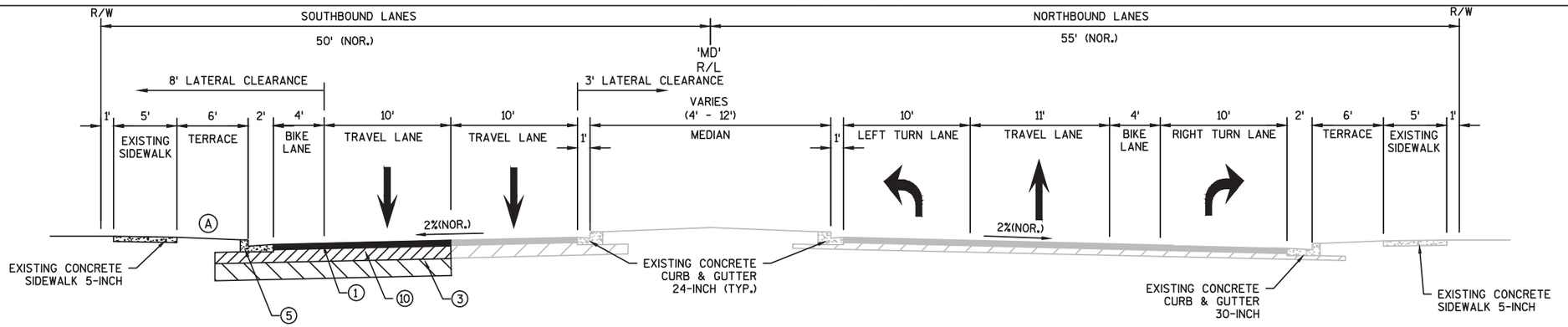
LEGEND

(1)	LOWER: 4-INCHES HMA PAVEMENT 3 MT 58-28 S UPPER: 2.5-INCHES HMA PAVEMENT 4 MT 58-28 H	(7)	6-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES
(2)	14-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES	(8)	CONCRETE SIDEWALK 5-INCH
(3)	16-INCHES SELECT CRUSHED MATERIAL	(9)	4-INCHES BASE AGGREGATE DENSE 3/4-INCHES
(4)	CONCRETE CURB & GUTTER, TYPE D 24-INCH SPECIAL	(10)	12-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES
(5)	CONCRETE CURB & GUTTER, TYPE D 30-INCH	(A)	TOPSOIL, FERTILIZER TYPE B & SOD LAWN
(6)	3-INCHES HMA PAVEMENT 3 LT 58-28 S	(B)	TOPSOIL, FERTILIZER TYPE B & SEEDING MIXTURE NO. 40
		(C)	TOPSOIL, FERTILIZER TYPE B & NO MOW SEED MIXTURE



PROPOSED TYPICAL SECTION, MAPLE GROVE DRIVE

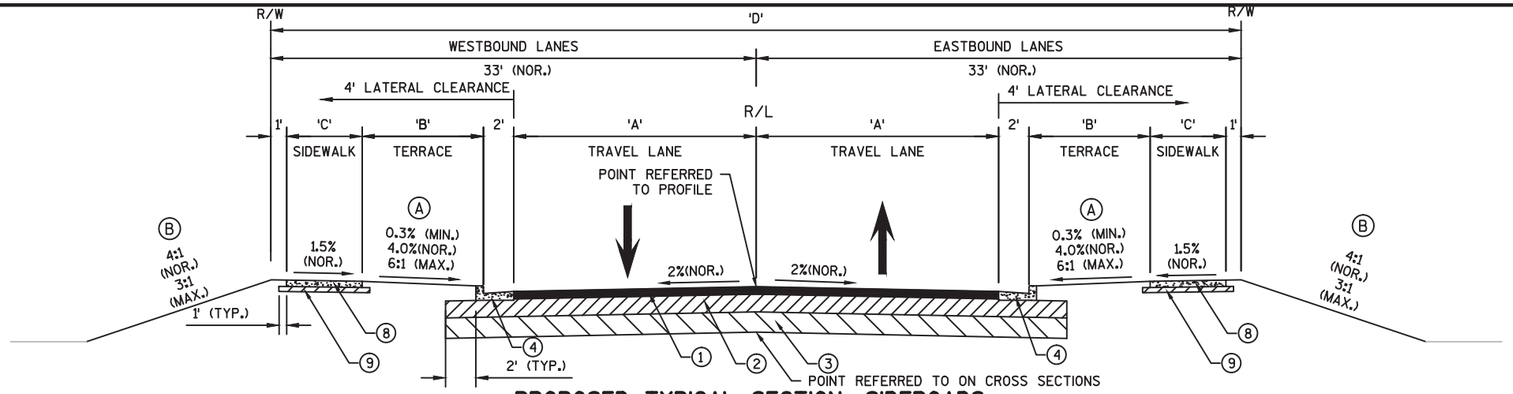
STA. 22+01'MD' - 24+61'MD'



PROPOSED TYPICAL SECTION, MAPLE GROVE DRIVE

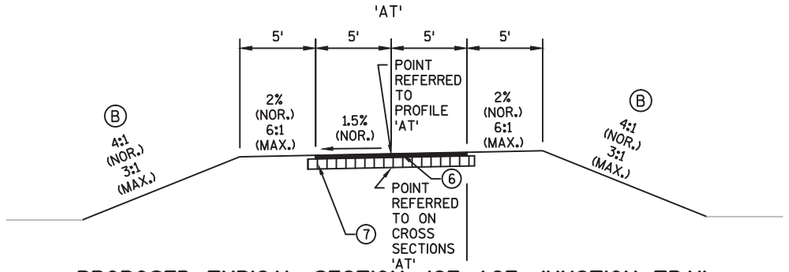
STA. 20+49'MD' - 21+34'MD'

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TYPICAL SECTIONS	SHEET 12	E



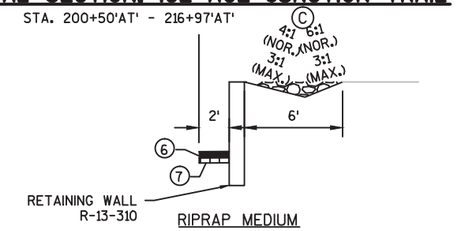
PROPOSED TYPICAL SECTION, SIDEROADS

ROADWAY NAME	DRIVING LANE WIDTH 'A'	TERRACE WIDTH 'B'	SIDEWALK WIDTH 'C'	RIGHT-OF-WAY WIDTH 'D'
STRATTON WAY (30+00'SW - 31+50'SW')	16'	9'	5'	66'
SNOWY PARKWAY (40+40'SP' - 41+95'SP')	14'	8'	5'	60'
SILVERTON TRAIL (72+35'ST' - 73+40'ST'	16'	9'	5'	66'
TANGLEWOOD DRIVE (70+92'ST' - 72+16'ST')	16'	9'	5'	66'
STONECREEK DRIVE (92+02'SD' - 93+08'SD')	16'	9'	5'	66'

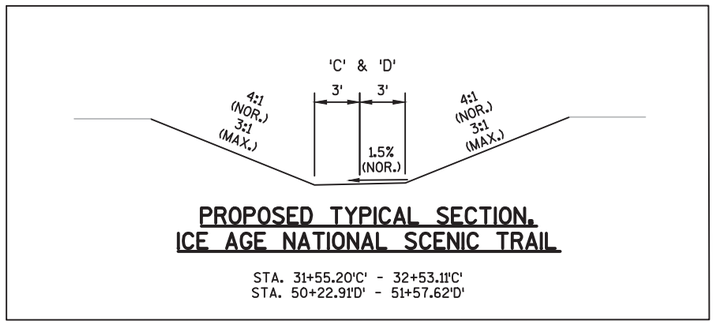


PROPOSED TYPICAL SECTION, ICE AGE JUNCTION TRAIL

STA. 200+50'AT' - 216+97'AT'

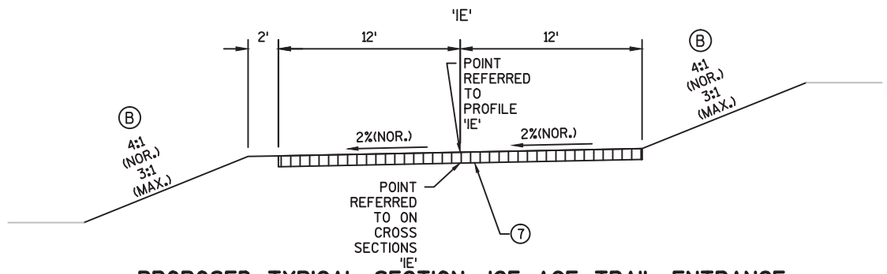


STA. 211+95'AT' - 216+69'AT'



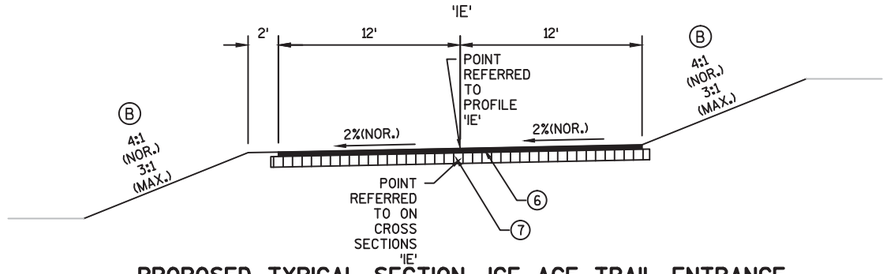
PROPOSED TYPICAL SECTION, ICE AGE NATIONAL SCENIC TRAIL

STA. 31+55.20'C' - 32+53.11'C'
STA. 50+22.91'D' - 51+57.62'D'



PROPOSED TYPICAL SECTION, ICE AGE TRAIL ENTRANCE

STA. 50+50'IE' - 53+00'IE'



PROPOSED TYPICAL SECTION, ICE AGE TRAIL ENTRANCE

STA. 53+00'IE' - 55+25'IE'

LEGEND

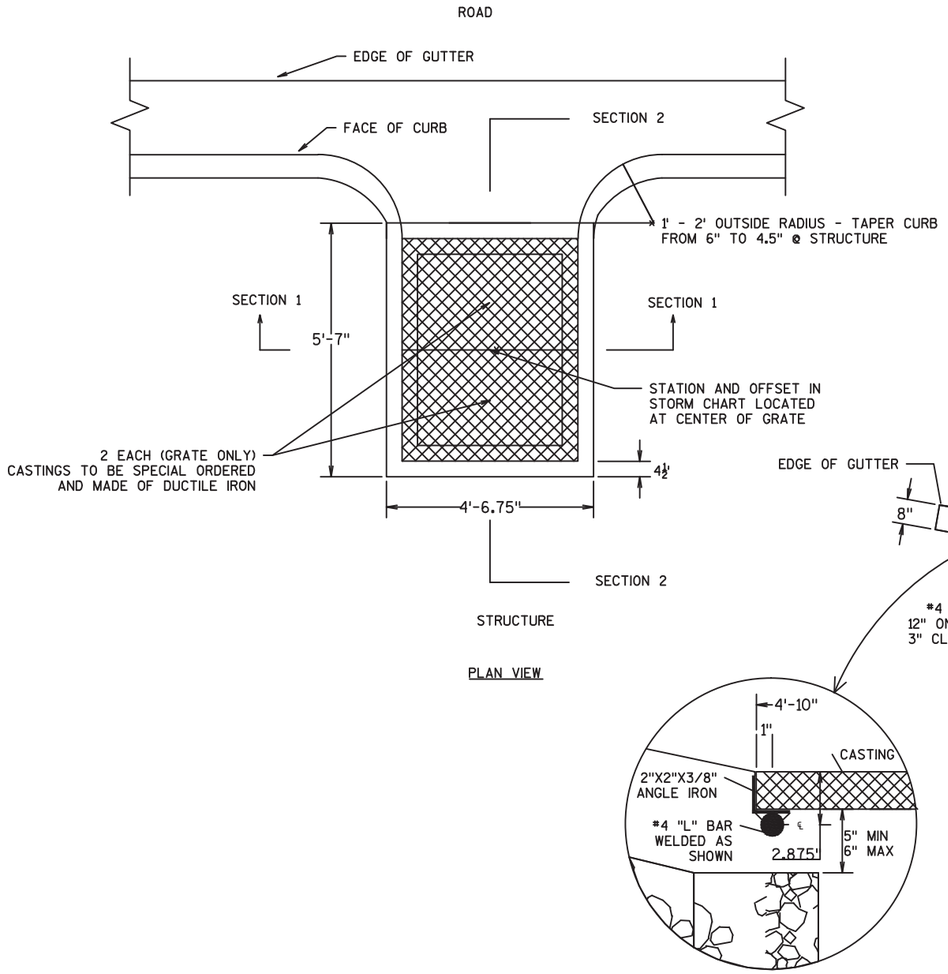
(1)	LOWER: 4-INCHES HMA PAVEMENT 3 MT 58-28 S UPPER: 2.5-INCHES HMA PAVEMENT 4 MT 58-28 H	(7)	6-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES
(2)	14-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES	(8)	CONCRETE SIDEWALK 5-INCH
(3)	16-INCHES SELECT CRUSHED MATERIAL	(9)	4-INCHES BASE AGGREGATE DENSE 3/4-INCHES
(4)	CONCRETE CURB & GUTTER, TYPE D 24-INCH SPECIAL	(10)	12-INCHES BASE AGGREGATE DENSE 1 1/4-INCHES
(5)	CONCRETE CURB & GUTTER, TYPE D 30-INCH	(A)	TOPSOIL, FERTILIZER TYPE B & SOD LAWN
(6)	3-INCHES HMA PAVEMENT 3 LT 58-28 S	(B)	TOPSOIL, FERTILIZER TYPE B & SEEDING MIXTURE NO. 40
		(C)	TOPSOIL, FERTILIZER TYPE B & NO MOW SEED MIXTURE

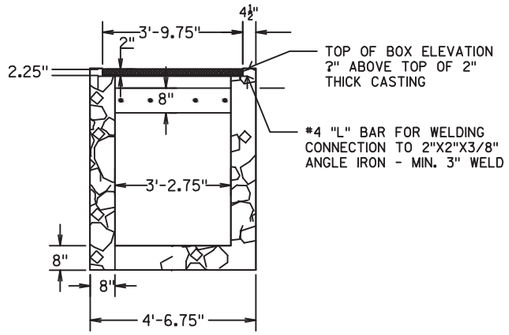
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TYPICAL SECTIONS	SHEET 13	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TYPICAL SECTION\020302-TS-PROP.DWG
LAYOUT NAME - ****
PLOT DATE : 11/30/2016 9:11 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:10 FT

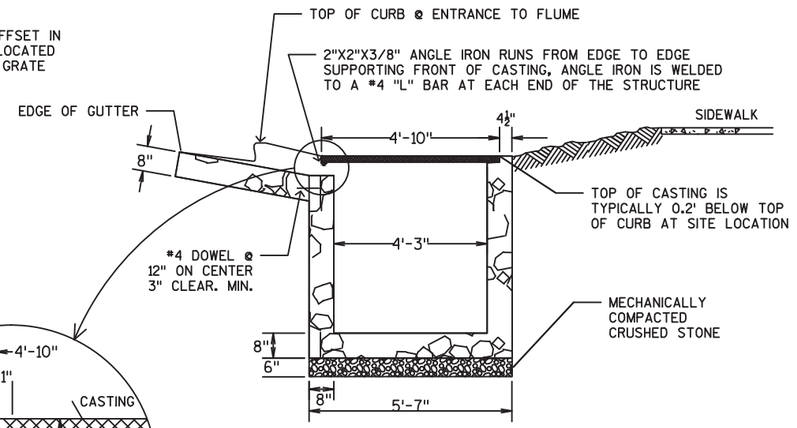
WISDOT/CADDS SHEET 42

2



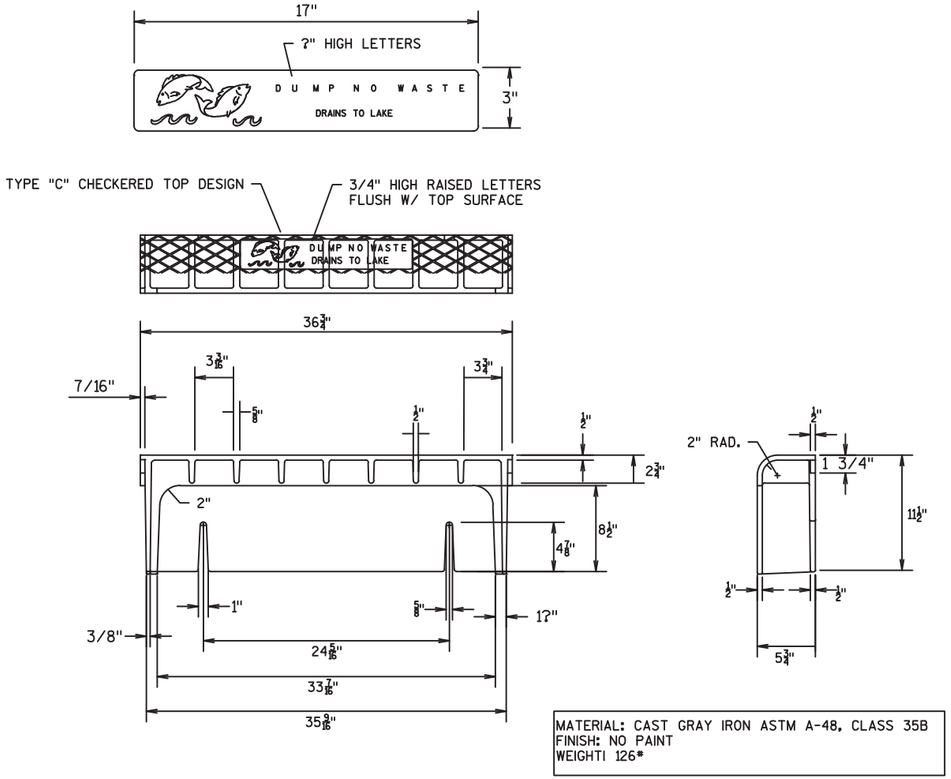


SECTION 1



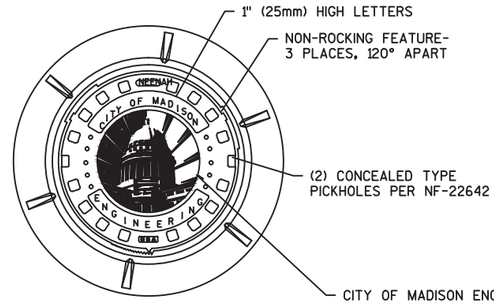
SECTION 2

TERRACE INLET TYPE 3 SPECIAL & INLET COVERS TERRACE TYPE 3 SPECIAL DETAIL

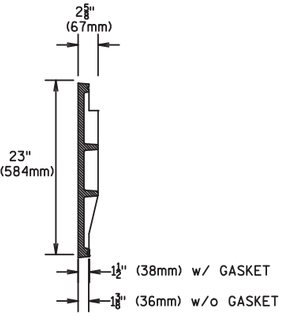


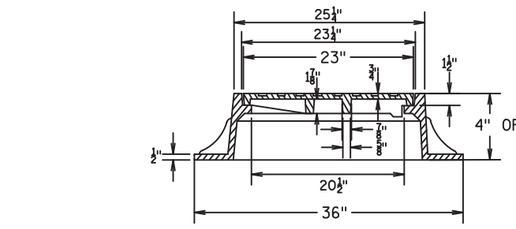
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
FINISH: NO PAINT
WEIGHTI 126*

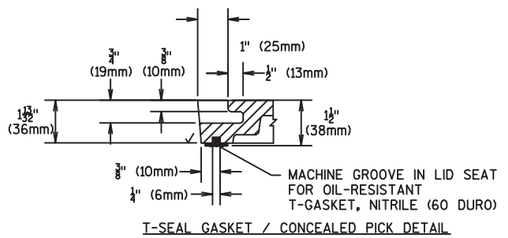
INLET COVER TYPE H SPECIAL & TYPE H-S SPECIAL DETAIL











T-SEAL GASKET / CONCEALED PICK DETAIL

NOTES:
APPROXIMATE TOTAL WEIGHTS:
R-1550 W/ LOGO LID 1550-0054, 9" FRAME AND LID = 315 LBS.
R-1689 W/ LOGO LID 1550-0054, 4" FRAME AND LID = 279 LBS.

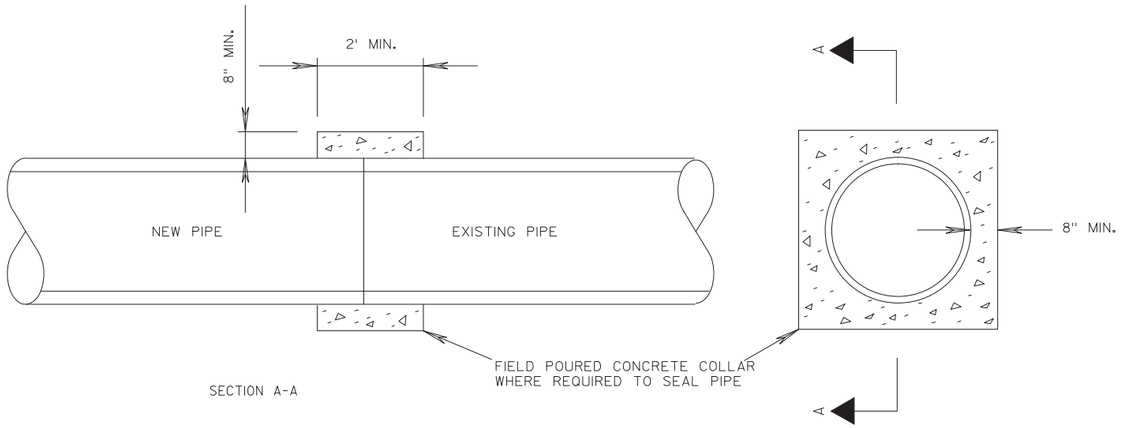
IF LOCKABLE LID IS NECESSARY, R-1920, 83/4" FRAME AND LID = 300 LBS.
THERE IS NO CITY OF MADISON LOGO LID AVAILABLE FOR THIS FRAME AND CASTING.

THE FOLLOWING CASTINGS (OR EQUAL CASTINGS) SHALL BE ACCEPTABLE:
1. R-1550, 9" NON-ROCKING ACCESS STRUCTURE FRAME.
2. R-1689, 4" NON-ROCKING ACCESS STRUCTURE FRAME
(WHEN REQUESTED BY THE CITY CONSTRUCTION ENGINEER).
3. R-1920, 83/4" ACCESS STRUCTURE FRAME WITH LOCKING LID, TYPE 'F' LOCKS, AND CONCEALED PICK HOLES. TO BE USED IN GREENWAYS AND EASEMENTS.

1. FRAME AND COVER SHALL BE MACHINED AND FITTED SO THAT ROCKING AND CHATTERING WILL BE ELIMINATED.
2. ALL LIDS SHALL BE SELF-SEALING EXCEPT FOR STORM SEWER.
3. ALL LIDS SHALL HAVE CITY OF MADISON LOGO AS SHOWN IN DETAIL (R-1550-0054 OR EQUIV.)

LID NOTES: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND (METRIC)
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B

MANHOLE COVER TYPE J MODIFIED

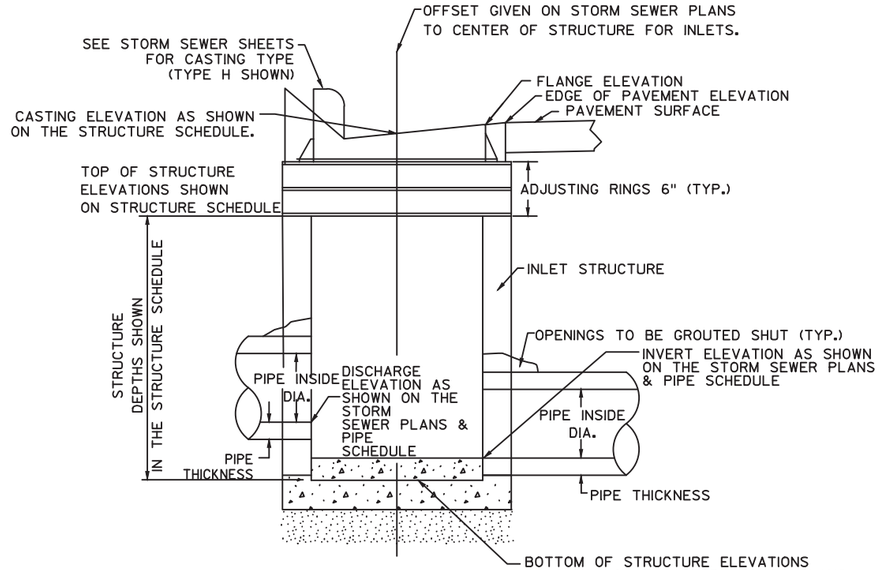


NOTE:

IF REQUESTED BY THE CONSTRUCTION ENGINEER, FIBER REINFORCED CONCRETE SHALL BE PROVIDED

STORM SEWER PIPE CONCRETE COLLAR DETAIL

SEE STORM SEWER PLANS FOR LOCATIONS

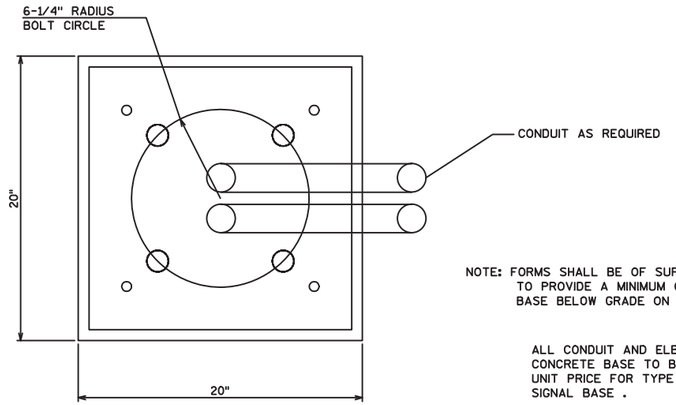


GENERAL NOTES:

GRANULAR BACKFILL REQUIRED AROUND INLET (INCIDENTAL TO CONSTRUCTION OF INLET)

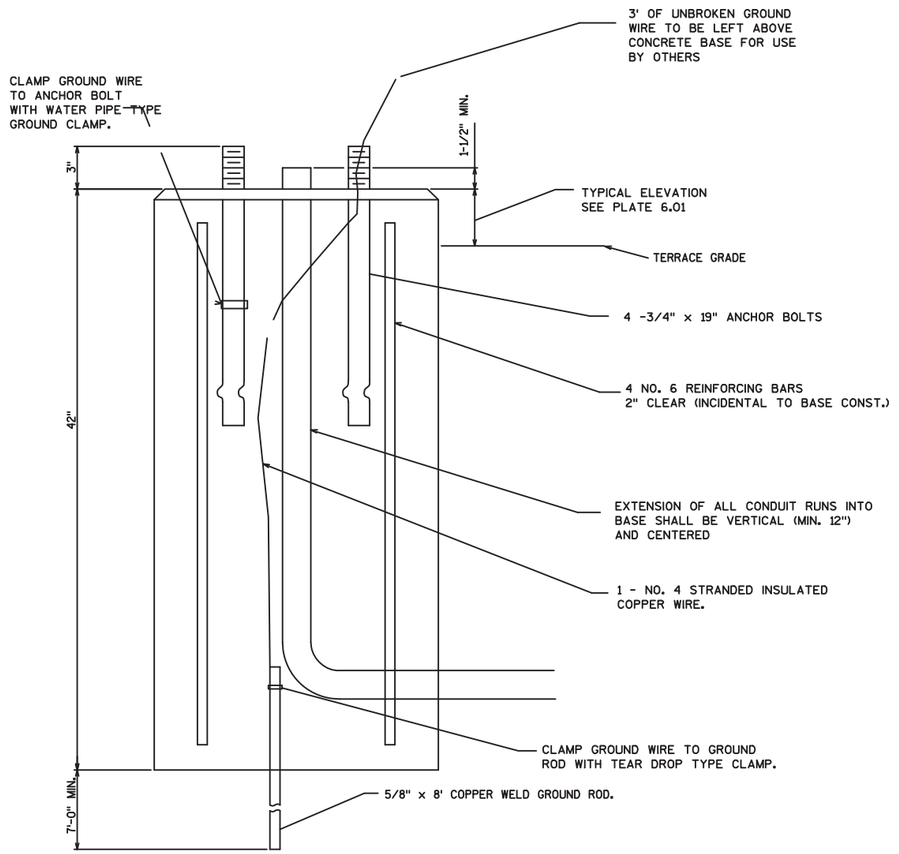
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, APPLICABLE SPECIAL PROVISIONS, AND S.D.D. FOR INLETS.

DETAIL OF INLET W/CASTING

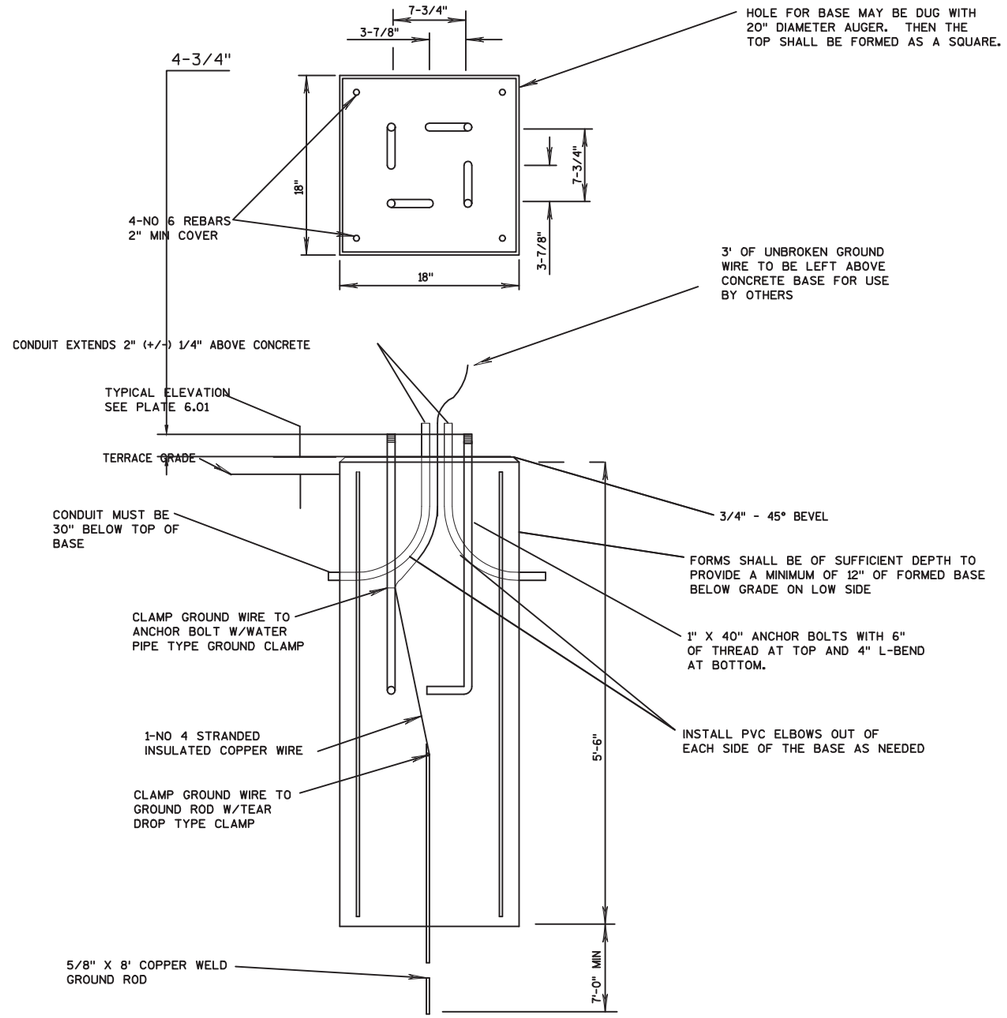


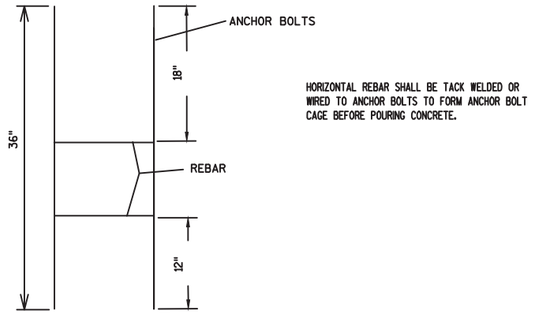
NOTE: FORMS SHALL BE OF SUFFICIENT DEPTH TO PROVIDE A MINIMUM OF 12" OF FORMED BASE BELOW GRADE ON THE LOW SIDE.

ALL CONDUIT AND ELBOWS SHOWN IN CONCRETE BASE TO BE INCLUDED IN UNIT PRICE FOR TYPE "G" TRAFFIC SIGNAL BASE .



TYPE "G" BASE DETAIL



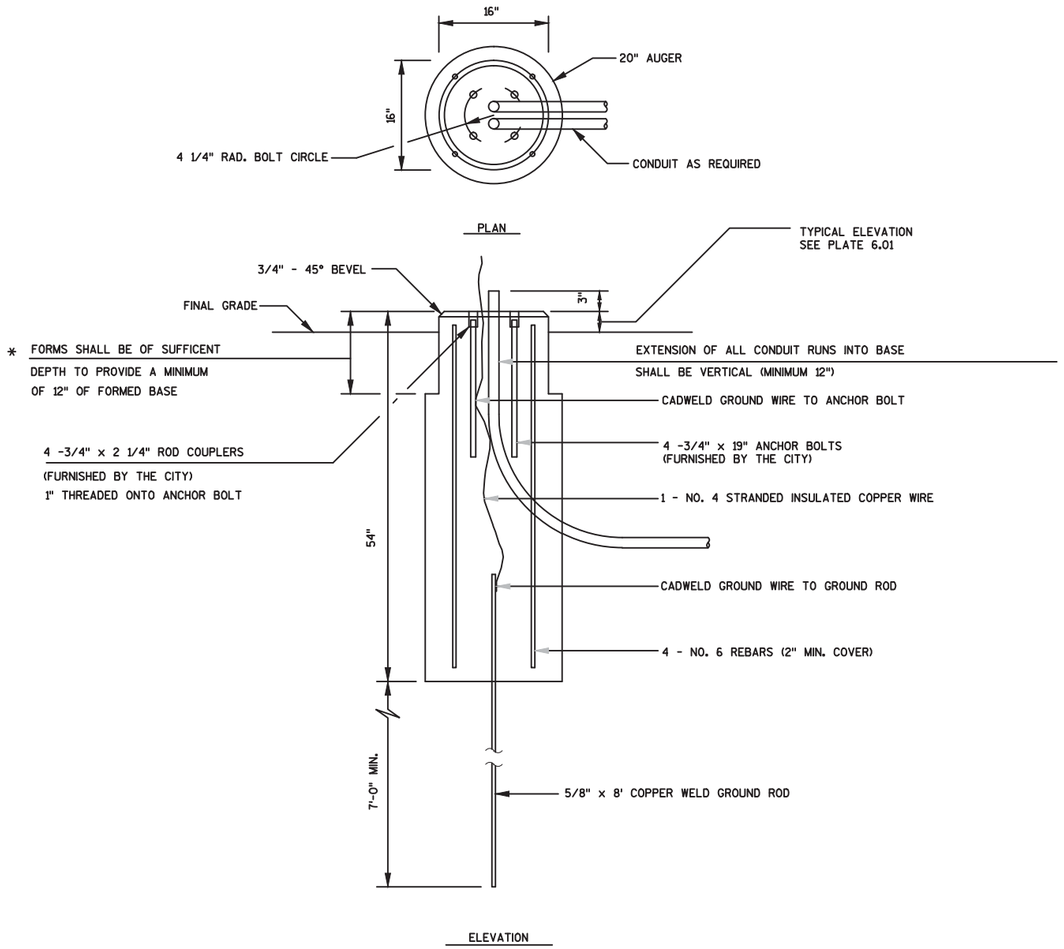


HORIZONTAL REBAR SHALL BE TACK WELDED OR WIRED TO ANCHOR BOLTS TO FORM ANCHOR BOLT CAGE BEFORE POURING CONCRETE.

LB-3 BASE DETAIL

2

* TOP 12" OF FORMED BASE TO BE ROUND,
16" DIAMETER AS SHOWN, OR DIRECTED BY THE ENGINEER.

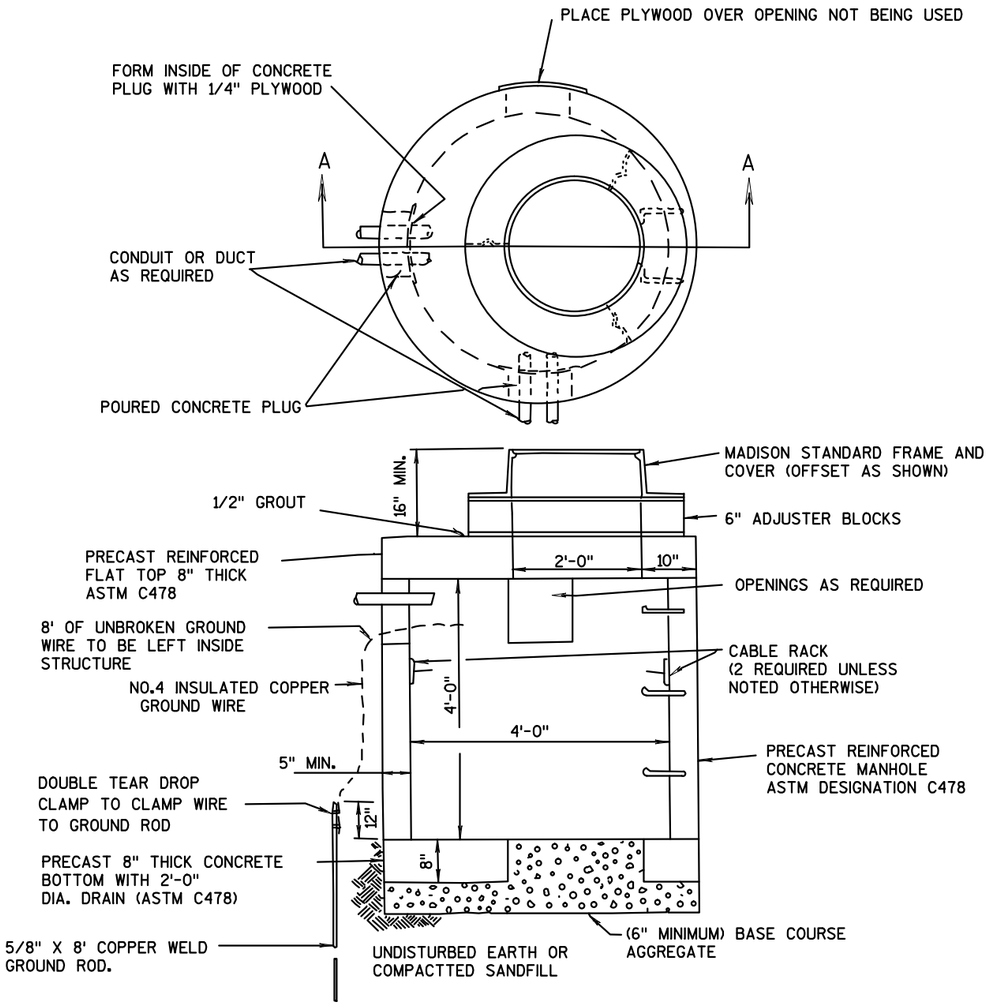


NOTES:

RUST, CORROSION AND ANTI-SEIZE PROTECTION SHALL PROVIDED AT ALL THREADED ASSEMBLIES.

ROD COUPLERS SHALL BE SET FLUSH WITH TOP OF BASE.

LB-3 BASE DETAIL



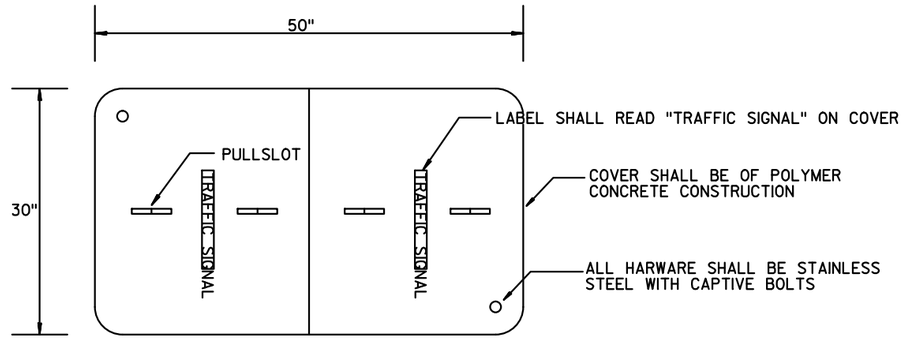
SECTION A-A

2013

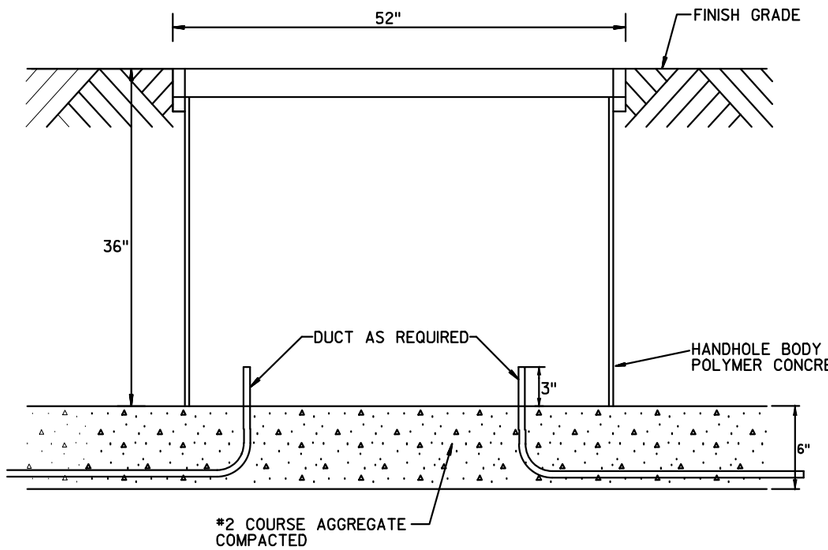
CITY OF MADISON
TRAFFIC ENGINEERING DIVISION

ELECTRICAL UTILITY ACCESS STRUCTURE DETAIL

STANDARD DETAIL DRAWING 6.27



*15,000 LBS MAXIMUM LOAD OVER A 10'X10' TEST AREA RATING FOR COVER AND BOX



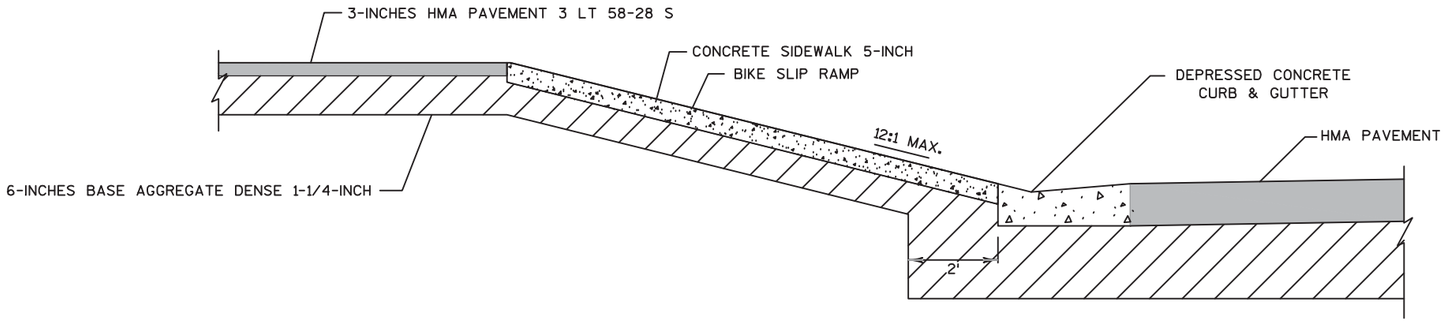
2016

CITY OF MADISON
TRAFFIC ENGINEERING DIVISION

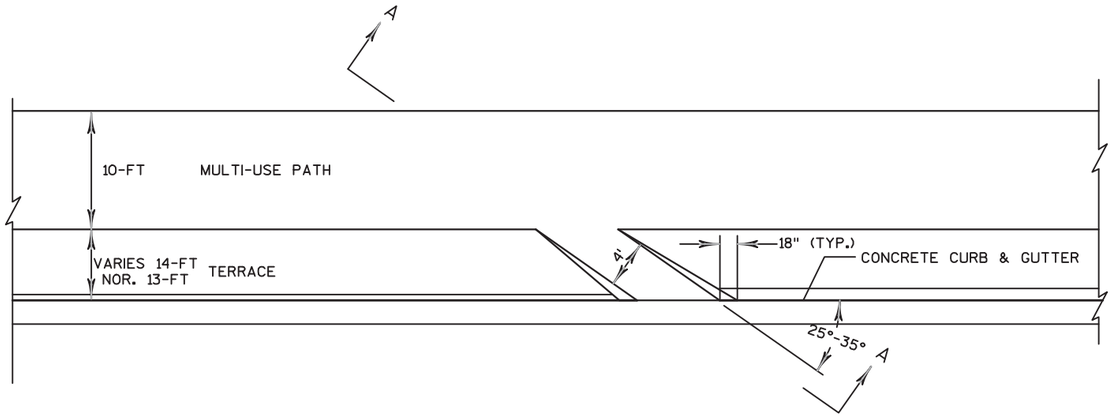
TYPE 7 HANDHOLE DETAIL

PROPOSED ~~STANDARD DETAIL DRAWING 6.48~~

2



SECTION A-A

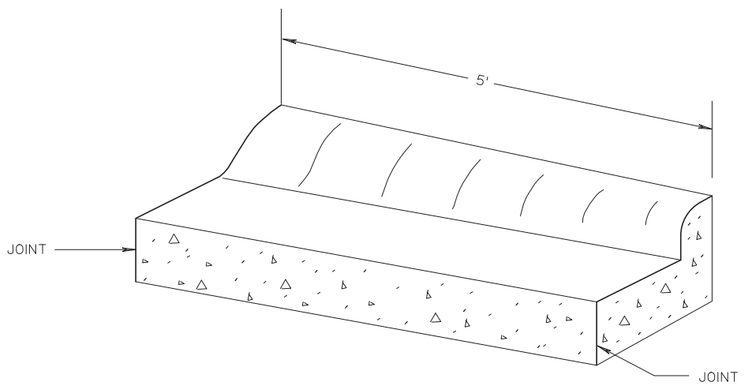


DIRECTION OF TRAVEL

BIKE RAMP EXIT

BIKE SLIP RAMP DETAIL

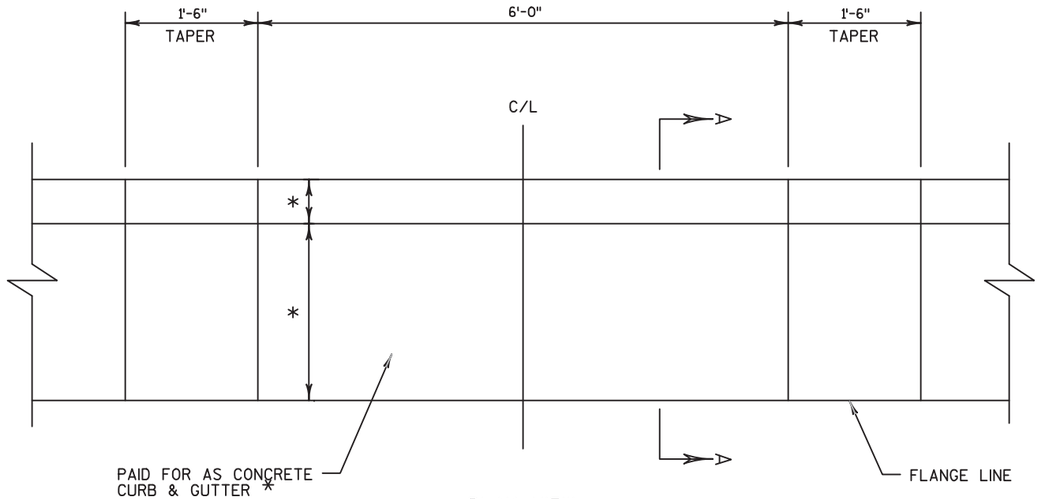
STA 130+17'WB'



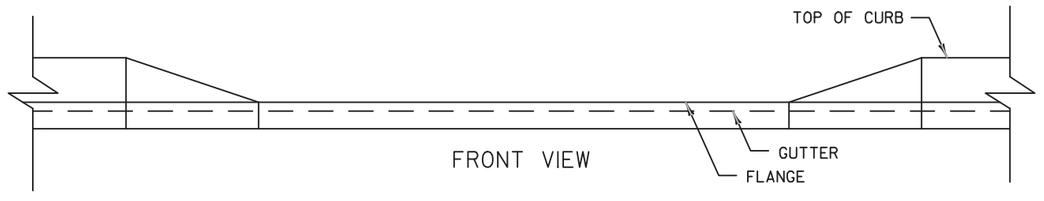
CURB TRANSITION DETAIL

CONCRETE CURB & GUTTER 30-INCH
TO EXISTING CONCRETE CURB & GUTTER 24-INCH SPECIAL
(TO BE MEASURED & PAID FOR AS CONCRETE CURB & GUTTER 30-INCH)

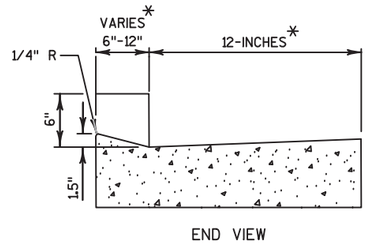
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 20	E



PLAN VIEW



FRONT VIEW



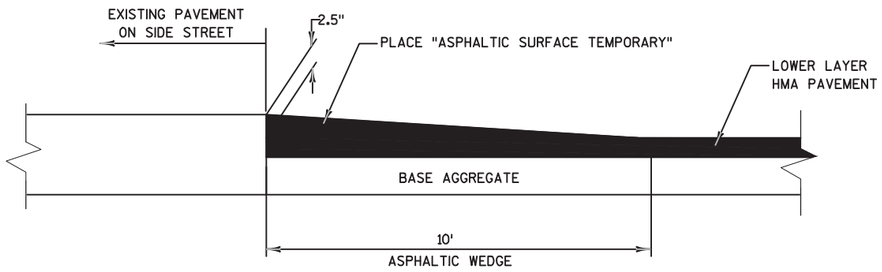
END VIEW

SECTION A-A

* TYPE AND DIMENSIONS TO MATCH ADJACENT CURB AND GUTTER.

MAINTENANCE OPENING DETAIL

LOCATIONS SHOWN ON PLAN DETAILS



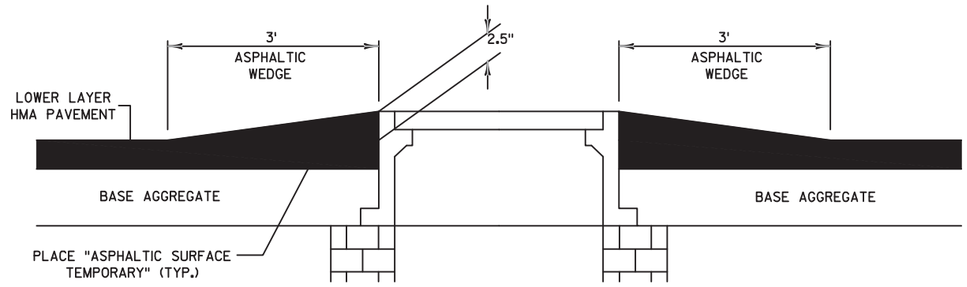
NOTE:

REMOVAL OF ASPHALTIC WEDGES WILL BE PAID FOR AS "REMOVING ASPHALTIC SURFACE BUTT JOINT".

TEMPORARY WEDGES DETAIL (MATCH POINTS)

(MATCH POINTS)

NOTE: PROVIDE ASPHALTIC WEDGE PRIOR TO OPENING LANE TO TRAFFIC.



NOTE:

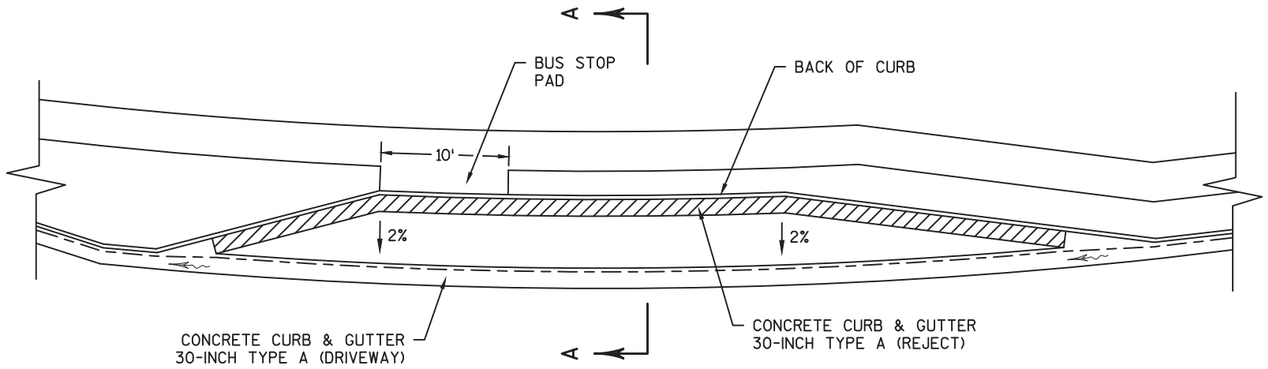
REMOVAL OF ASPHALTIC WEDGES WILL BE PAID FOR AS "REMOVING ASPHALTIC SURFACE BUTT JOINTS."

TEMPORARY WEDGES DETAIL (MANHOLES)

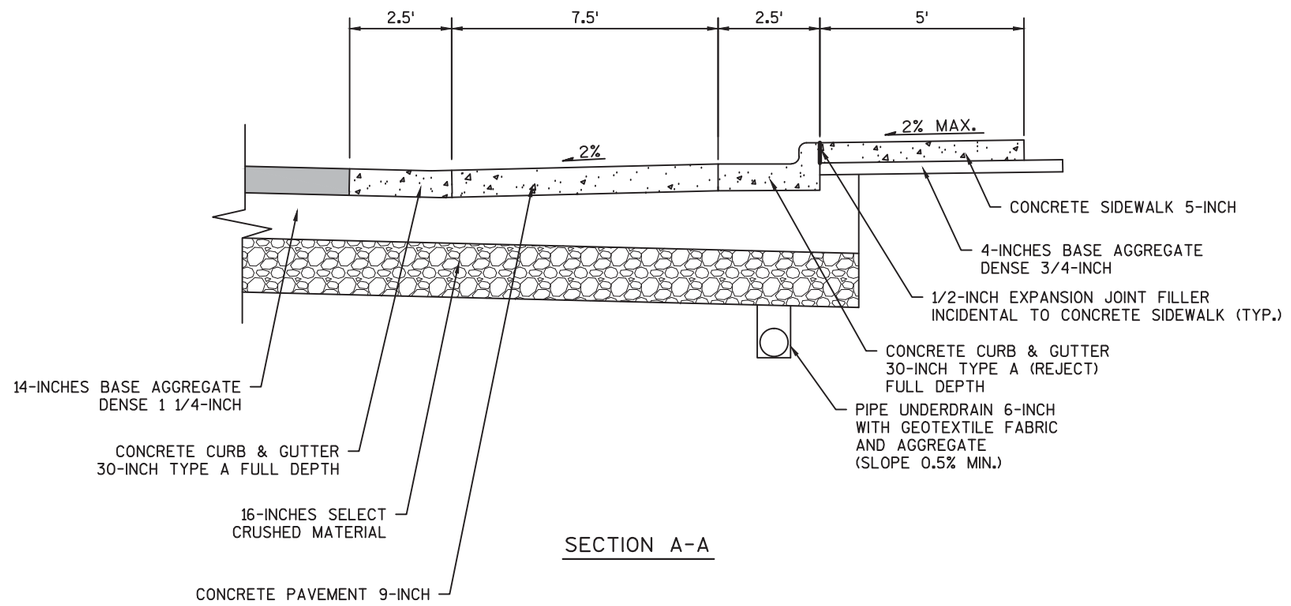
NOTE: PROVIDE ASPHALTIC WEDGES PRIOR TO OPENING LANE TO TRAFFIC

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 21	E

2



PLAN VIEW

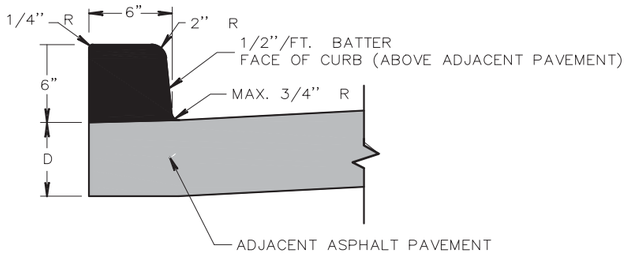


SECTION A-A

BUS PULL-OUT DETAIL

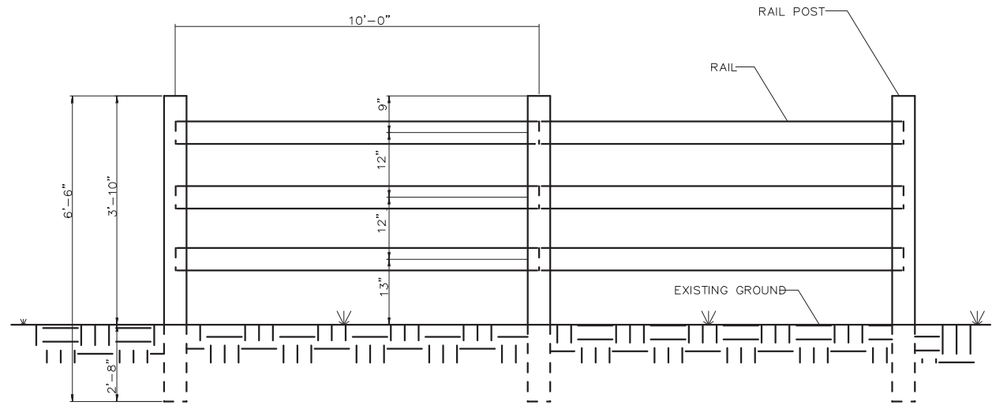
STA. 55+12CM - STA. 55+99CM

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	CONSTRUCTION DETAILS	SHEET 22	E



D = DEPTH OF ADJACENT ASPHALT PAVEMENT

ASPHALTIC CURB DETAIL



SPLIT RAIL FENCE DETAIL

STA. 8.90 RT WALL – STA. 163+00 RT WALL

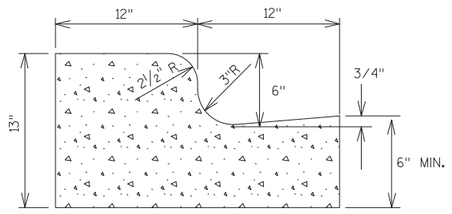
2

GENERAL NOTES:

LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15' NOR LESS THAN 6' IN LENGTH. THE JOINTS SHALL BE A MINIMUM OF 3" IN DEPTH

EXPANSION JOINTS SHALL BE PLACED TRANSVERSLY AT RADIUS POINTS ON CURVES OF RADIUS 200' OR LESS, AND AT ANGLE POINTS, OR AS DIRECTED BY THE ENGINEER. THE EXPANSION JOINT SHALL BE A ONE PIECE ASPHALTIC MATERIAL HAVING THE SAME DIMENSIONS AS CURB & GUTTER AT THAT STATION AND BE ½" THICK.

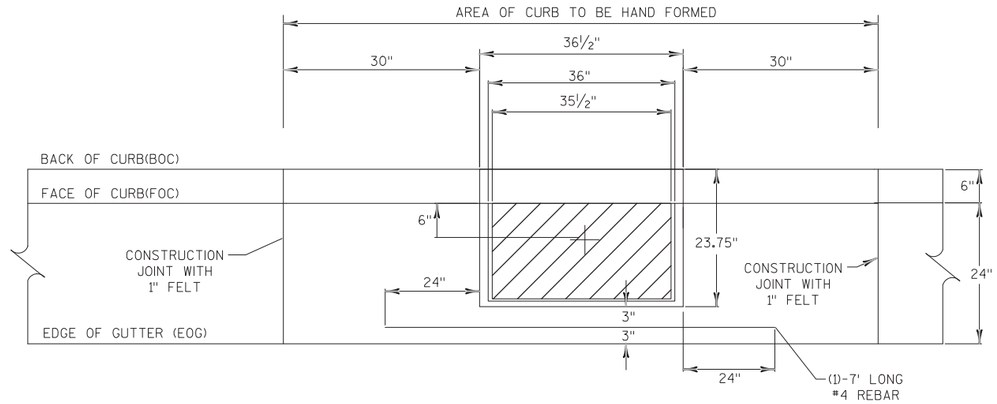
IN ALL CASES, CONCRETE CURB & GUTTER SHALL BE PLACED ON THOROUGHLY COMPACTED CRUSHED STONE



STANDARD
CURB & GUTTER

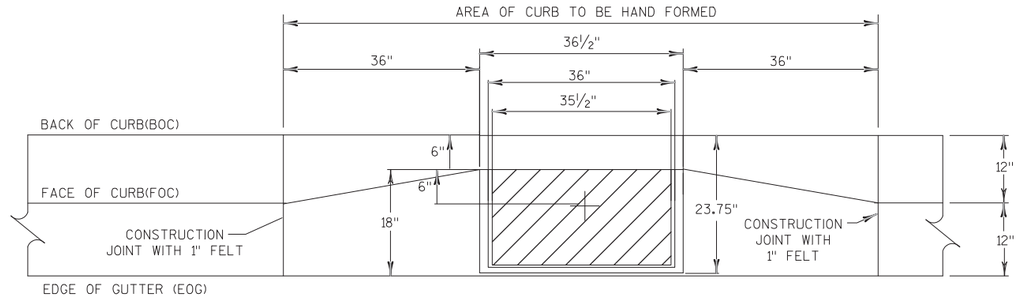
CONCRETE CURB & GUTTER 24-INCH TYPE A/D SPECIAL DETAIL

2



CONCRETE CURB AND GUTTER 30-INCH TYPE D
PLAN VIEW

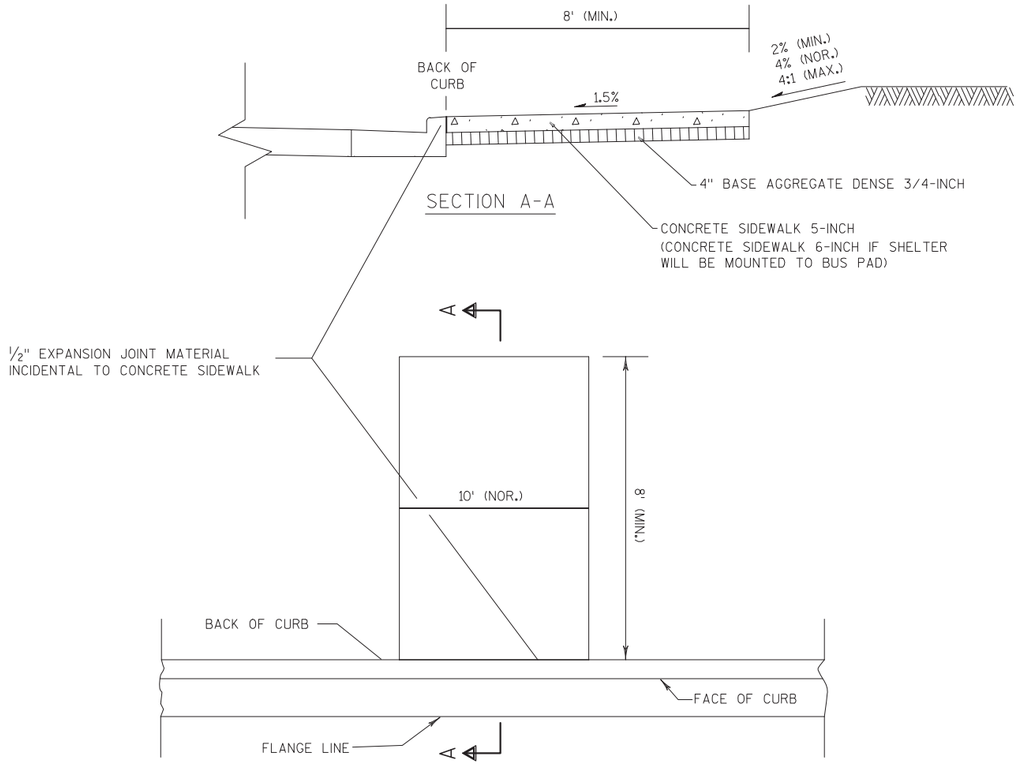
\+ = CENTER OF STRUCTURE (STATION AND OFFSET AS INDICATED ON THE STORM SCHEDULE)



CONCRETE CURB AND GUTTER 24-INCH TYPE D SPECIAL
PLAN VIEW

INLET LOCATIONS IN VARIOUS TYPES OF CURB DETAIL

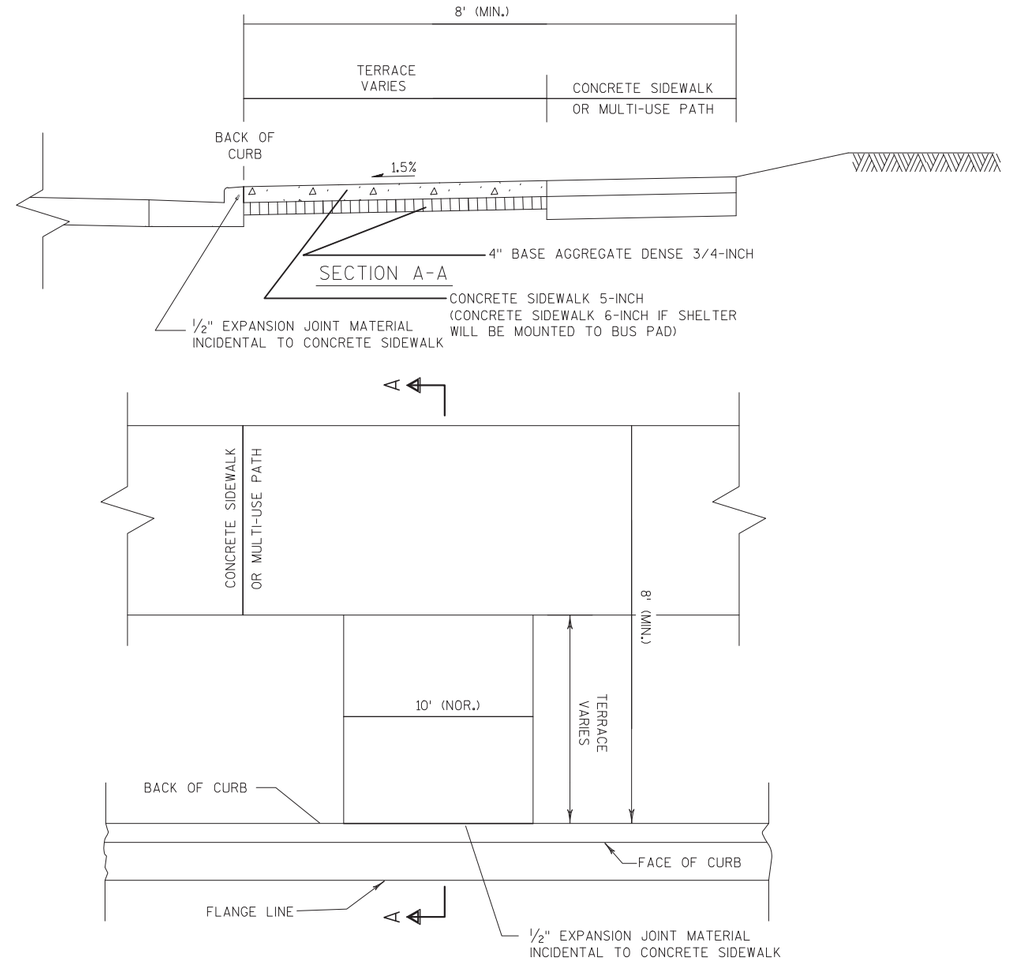
NOTE:
CASTING FLANGE (NOT SHOWN) PROTRUDES APPROXIMATELY 3.63" INTO THE PAVEMENT.
SEE S.D.D. FOR INLET FRAME DETAILS.



BUS STOP PAD DETAIL

WITHOUT ADJACENT SIDEWALK

(SEE PLAN DETAILS FOR LOCATIONS)



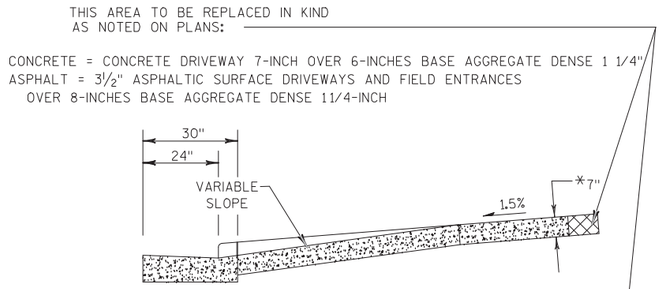
BUS STOP PAD DETAIL

WITH ADJACENT SIDEWALK

(SEE PLAN DETAILS FOR LOCATIONS)

2

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	CONSTRUCTION DETAILS	SHEET 25	E



SECTION A-A

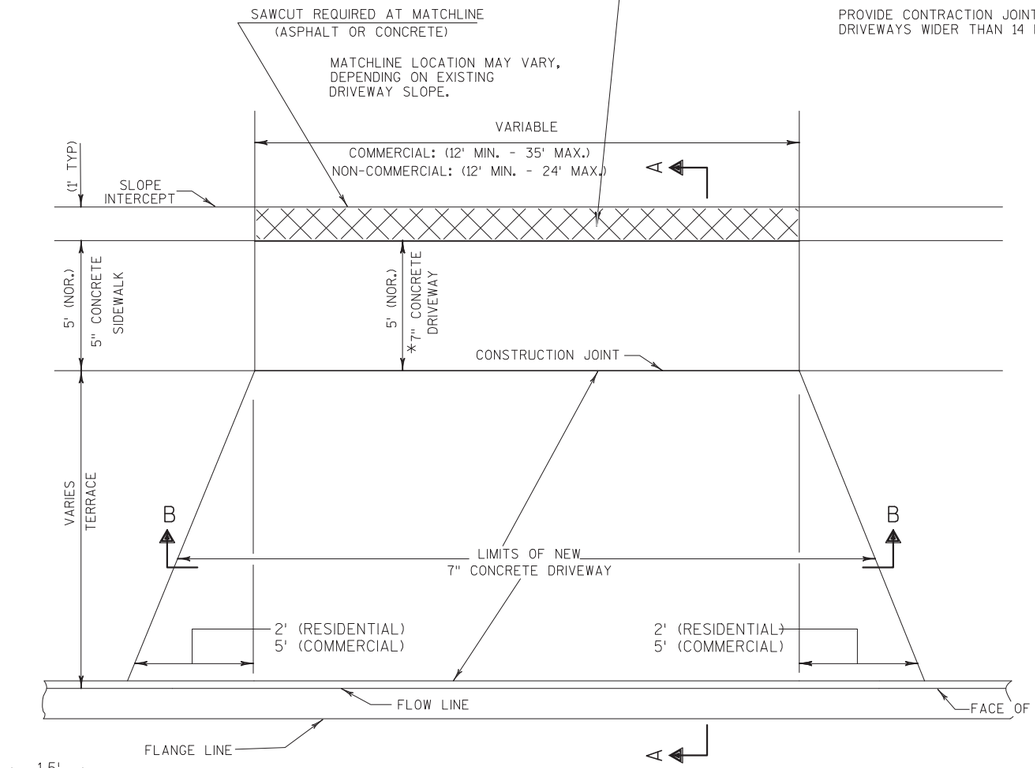
DRIVEWAY CONSTRUCTION NOTES:

——— HEAVY LINE INDICATES ½" EXPANSION JOINT MATERIAL.

WHEN MATCHING EXISTING CONCRETE DRIVEWAY INSTALL ½" EXPANSION JOINT MATERIAL BETWEEN NEW AND OLD DRIVEWAY.

* UNLESS OTHERWISE NOTED ON PLAN

PROVIDE CONTRACTION JOINT FOR CONCRETE DRIVEWAYS WIDER THAN 14 FEET



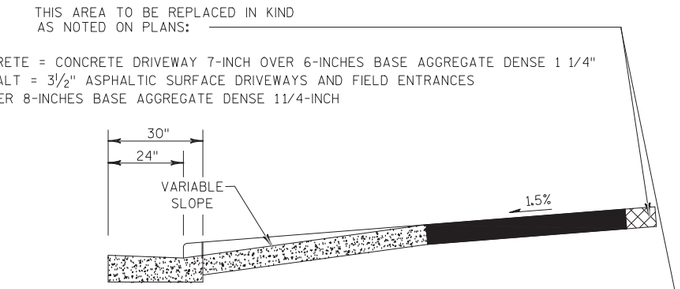


SECTION B-B

CONCRETE DRIVEWAY DETAIL

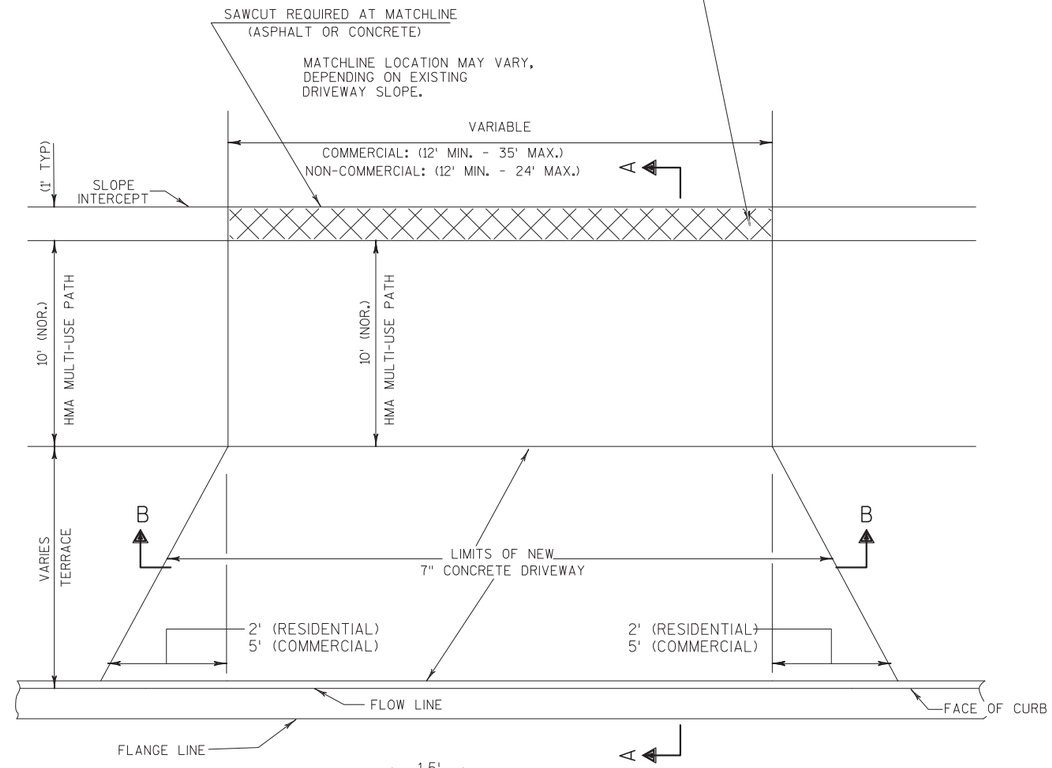
(ADJACENT TO SIDEWALK)

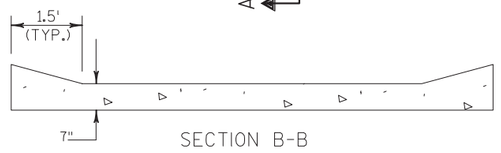
ROADWAY	STATION	LOCATION	WIDTH	PAVEMENT MATERIAL	PAVEMENT THICKNESS
CTH PD	122+00 'WB'	RT	16-FT	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	3-IN
	133+45 'WB'	RT	35-FT	SEE TYPICAL SECTIONS	
	160+94 'WB'	LT	24-FT	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	3-IN
	162+80 'WB'	LT	24-FT	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	3-IN
	164+58 'WB'	LT	24-FT	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	3-IN
	166+34'WB'	LT	24-FT	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	3-IN
	172+48 'WB'	RT	13-FT	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	3-IN
MAPLE GROVE DRIVE	23+91.43 'MD'	LT	28-FT	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	3-IN



SECTION A-A

DRIVEWAY APRON CONSTRUCTION NOTES:
PROVIDE CONTRACTION JOINT FOR CONCRETE DRIVEWAYS WIDER THAN 14 FEET

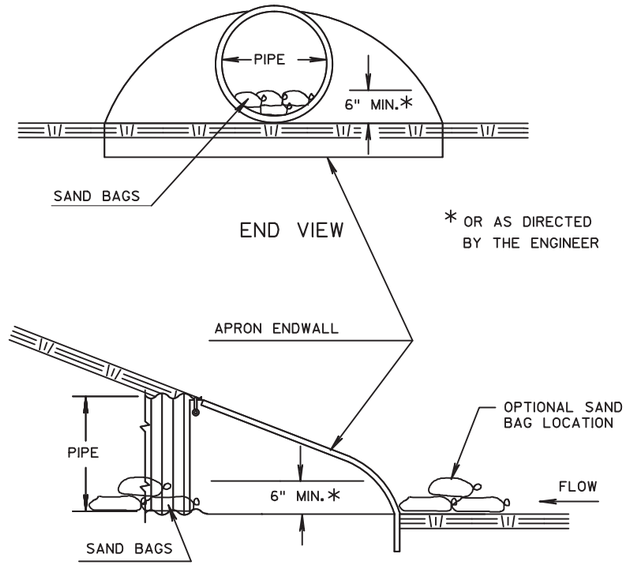




SECTION B-B

CONCRETE DRIVEWAY DETAIL

(ADJACENT TO MULTI-USE PATH)



ESTIMATED BAG SIZE = 24" X 12" X 6"	
PIPE SIZE	ESTIMATED NO. OF BAGS
12"	1
15"	2
18"	2
24"	3
30"	5
36'	7
42"	7
48"	10
54"	10
60"	13
72"	16
30"X19"	5
38"X24"	7
53"X34"	10
60"X38"	13
76"X48"	18

NOTE:
TO BE PLACED AT INLET END OF CULVERT PIPE.

CULVERT PIPE CHECK TEMPORARY

SEE EROSION CONTROL PLANS FOR LOCATIONS

RUNOFF COEFFICIENT TABLE

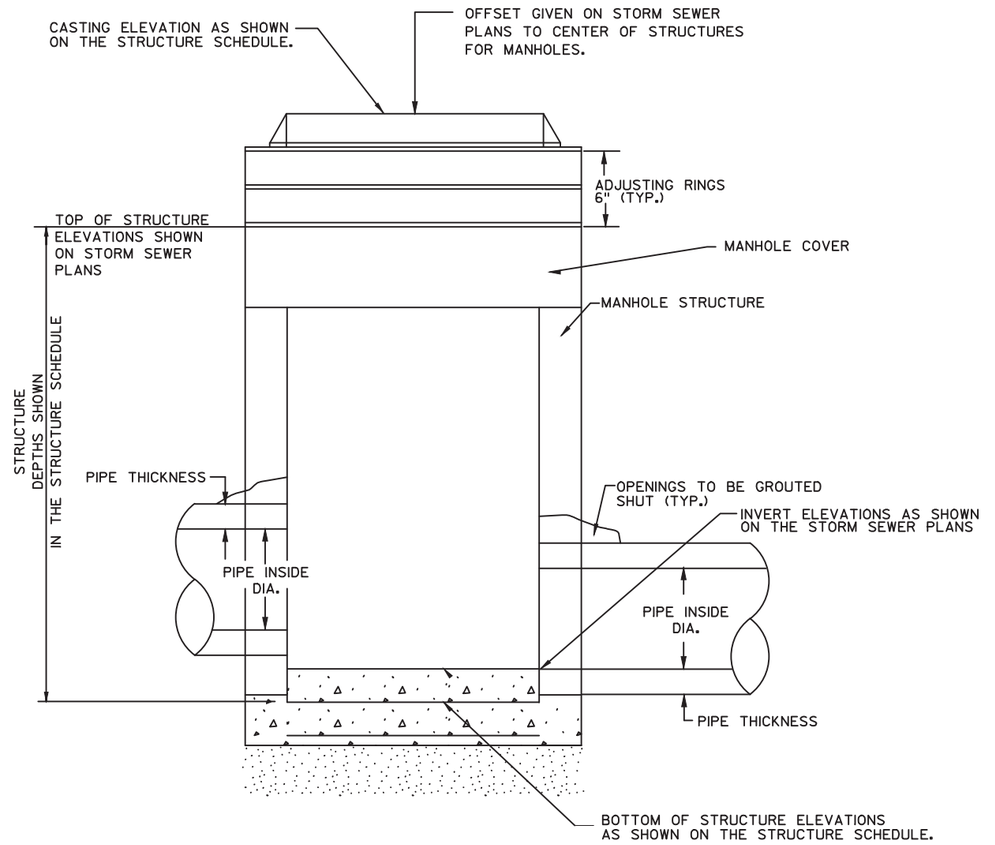
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 43.45 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 28.03 ACRES

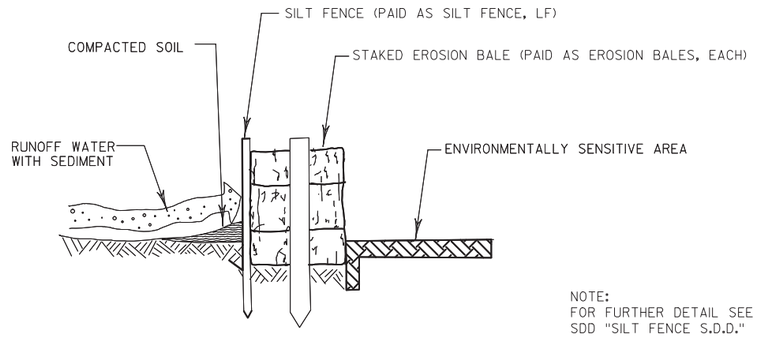
GENERAL NOTES:

GRANULAR BACKFILL REQUIRED AROUND MANHOLE (INCIDENTAL TO CONSTRUCTION OF MANHOLE)

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, APPLICABLE SPECIAL PROVISIONS, AND S.D.D. FOR MANHOLES TYPE 1.

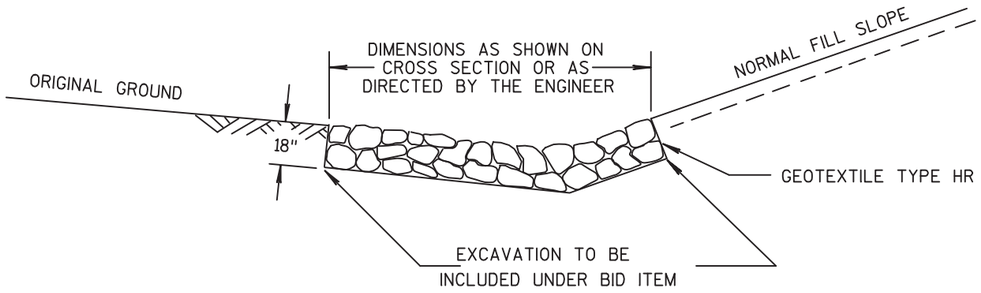


MANHOLE W/CASTING DETAIL



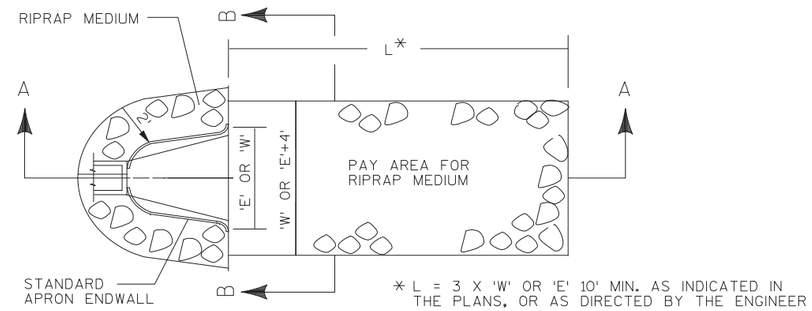
SILT FENCE & EROSION BALE BARRIER DETAIL

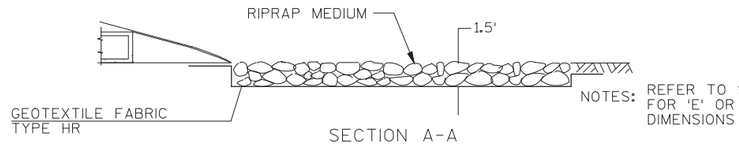
SEE EROSION CONTROL PLAN FOR LOCATIONS



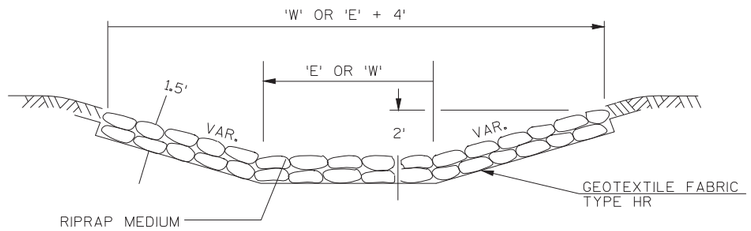
RIPRAP MEDIUM IN DITCHES DETAIL

SEE EROSION CONTROL PLANS FOR LOCATIONS





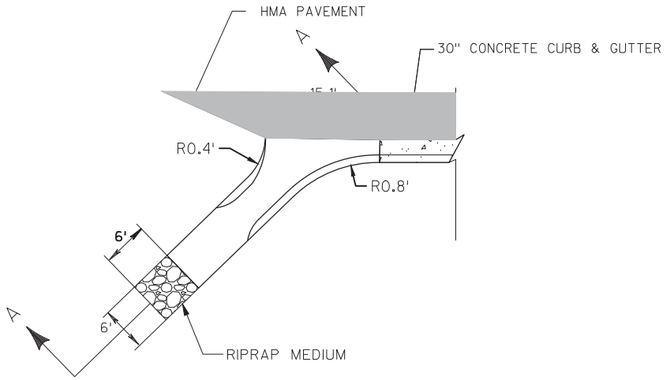
SECTION A-A



SECTION B-B

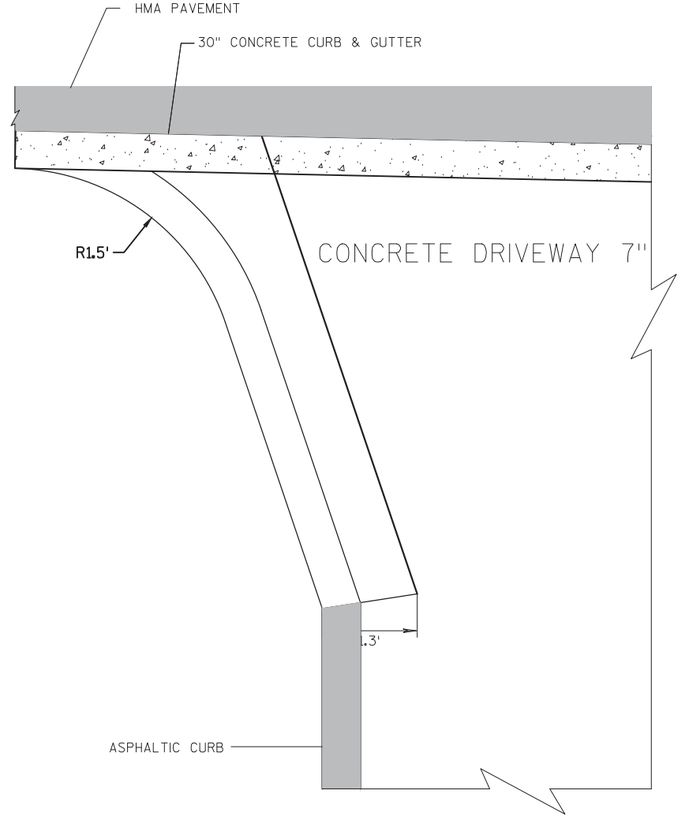
RIPRAP TREATMENT AT PIPE ENDWALL DETAIL

SEE EROSION CONTROL PLAN FOR LOCATIONS



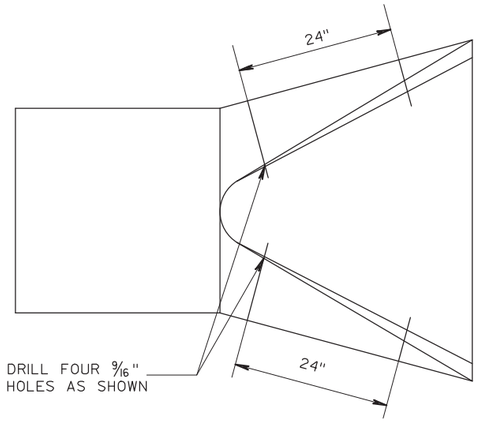
ASPHALTIC FLUME WITH RIPRAP MEDIUM

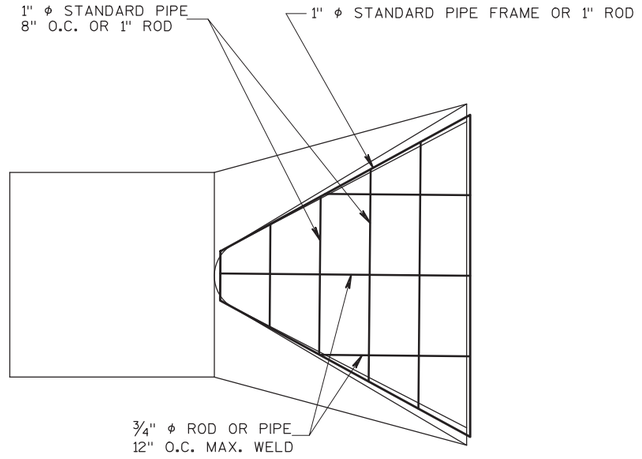
SEE EROSION CONTROL PLAN FOR LOCATION



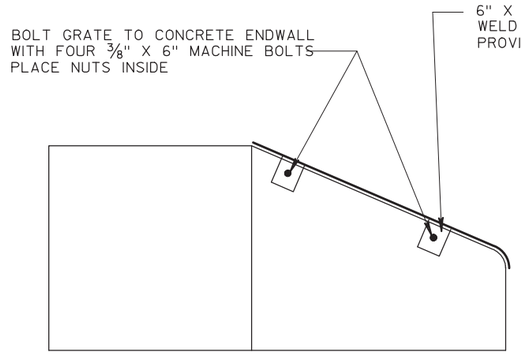
DRIVEWAY ASPHALTIC FLUME

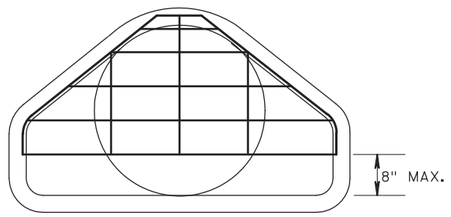
SEE EROSION CONTROL PLAN FOR LOCATION



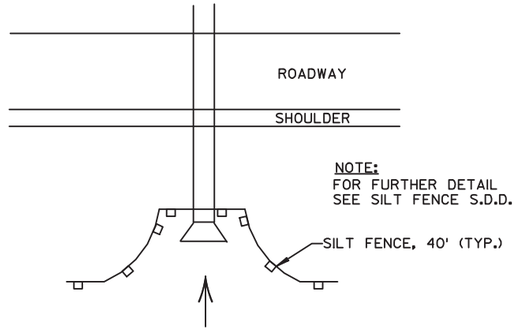


AT EACH PIPE



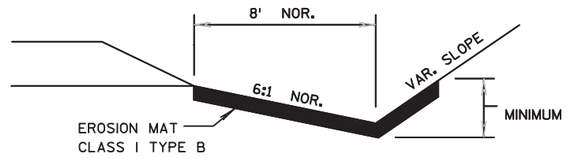


PIPE GRATE DETAIL



SILT FENCE AT PIPE INLET

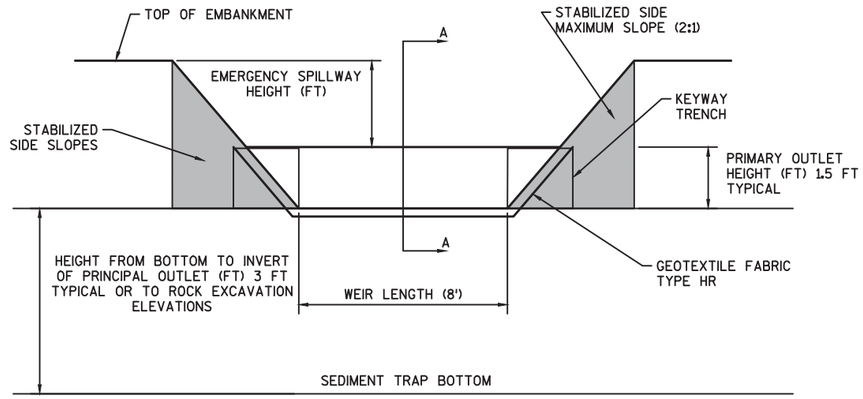
SEE EROSION CONTROL PLAN FOR LOCATIONS



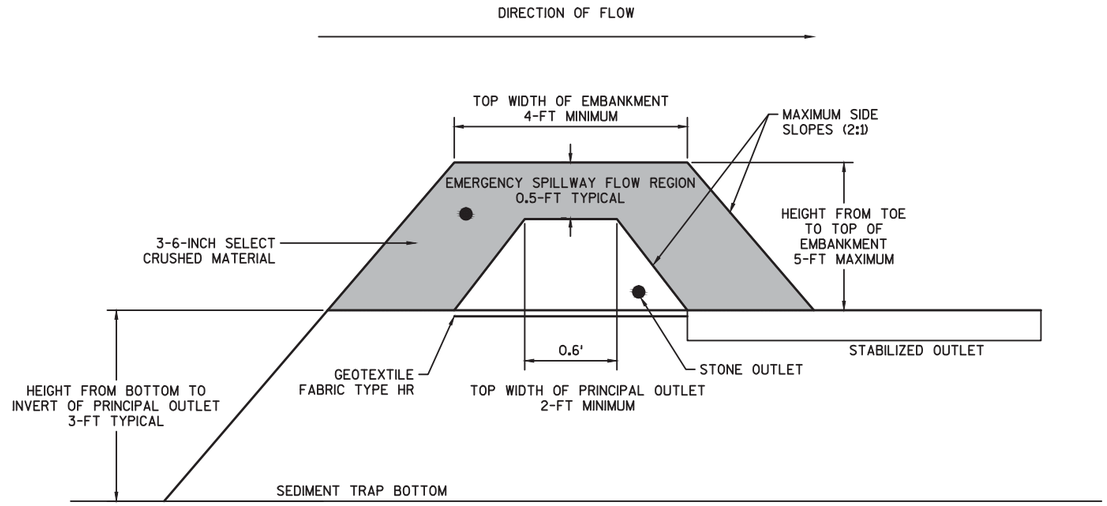
EROSION MAT DETAIL FOR DITCHES

(REQ'D. IN ALL DITCHES)

2



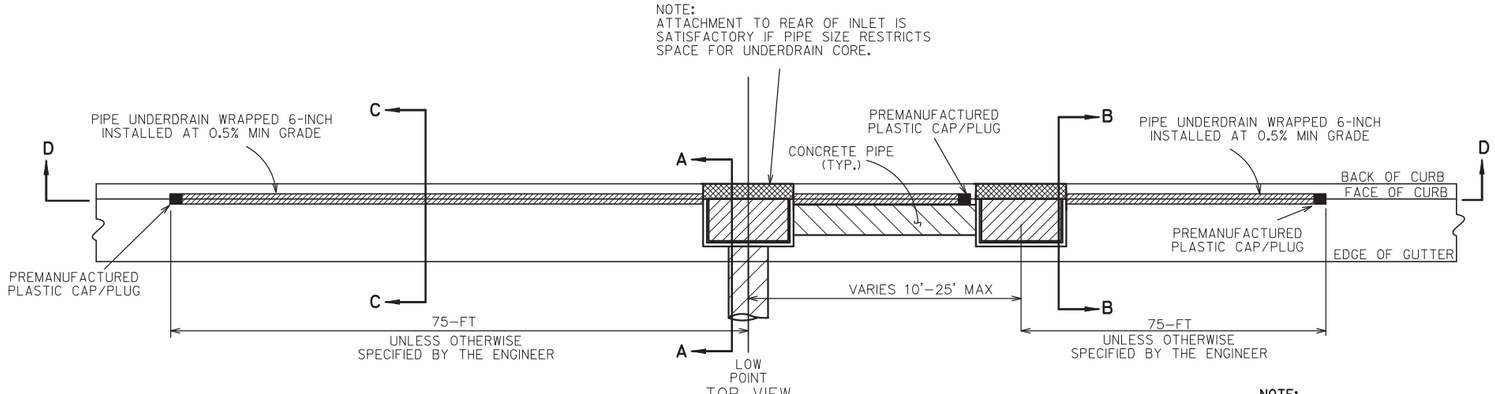
CROSS SECTION VIEW OF PRINCIPAL OUTLET



VIEW A-A OF PRINCIPAL OUTLET

TEMPORARY SEDIMENT TRAP OUTLET DETAIL

2



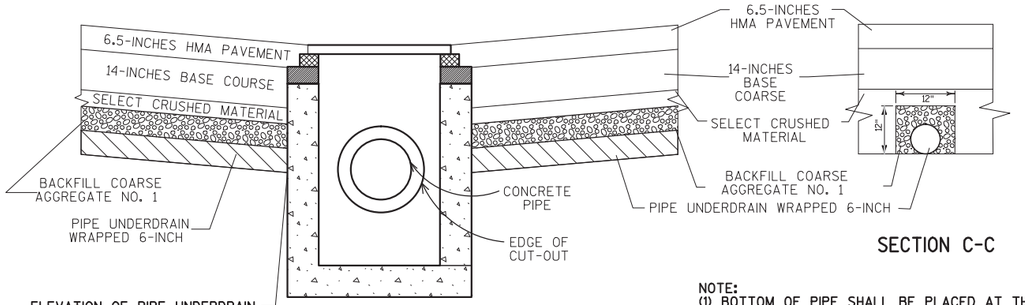
LOW POINT INLET

TOP VIEW
SPLIT DETAIL

INLET CONFIGURATION WITH UNDERDRAIN AT LOW POINTS

LOW POINT INLET WITH FLANKING INLETS

NOTE:
WHERE MULTIPLE INLETS ARE USED AT LOW POINTS, PIPE UNDERDRAIN WRAPPED 6-INCH SHALL BE INSTALLED 25 FEET TO EITHER DIRECTION FROM THE LOW POINT AT A MINIMUM POSITIVE GRADE OF 0.5%. THE SECTION OF UNDERDRAIN BETWEEN THE CENTER AND OUTER INLETS SHALL BE PLACED TIGHT TO THE OUTER INLET, CAPPED WITH A PREMANUFACTURED PLASTIC CAP OR PLUG, AND LAID AS SPECIFIED ABOVE TO THE CENTER INLET.



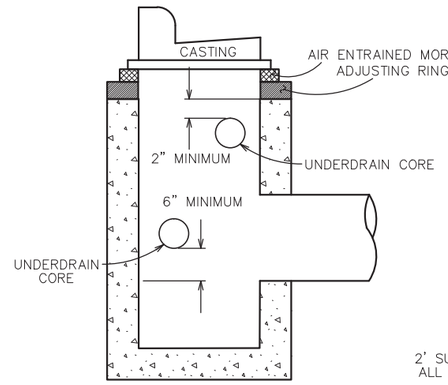
ELEVATION OF PIPE UNDERDRAIN WRAPPED 6-INCH SHALL BE PLACED AT A MINIMUM OF 6" ABOVE THE INVERT OF STORM SEWER PIPE. UNDERDRAIN PIPE INVERT NOT NECESSARILY AT BOTTOM OF SELECT CRUSHED MATERIAL. ELEVATIONS TO BE DETERMINED BY ENGINEER IN FIELD.

SECTION D-D

TYPICAL INLET CONFIGURATION WITH UNDERDRAIN CORED INTO WALL WITH NO PIPE FOUND AT LOW POINTS WITHOUT FLANKING INLETS

SECTION C-C

NOTE:
(1) BOTTOM OF PIPE SHALL BE PLACED AT THE BOTTOM OF BACKFILL COARSE AGGREGATE NO. 1 MATERIAL.
(2) BOTTOM OF COARSE AGGREGATE NO. 1 MATERIAL IS NOT NECESSARILY THE BOTTOM OF THE SELECT CRUSHED MATERIAL.



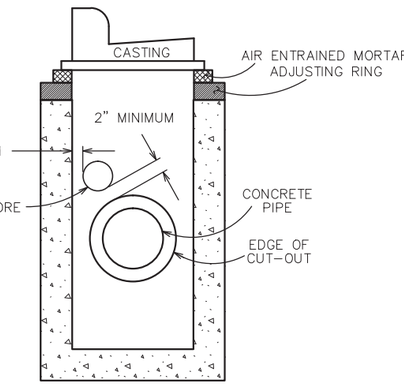
SECTION A-A

NOTE:
(1) BOTTOM OF CORE PLACED A MINIMUM OF 6" ABOVE THE INVERT OF THE CROSS PIPE.
(2) TOP OF CORE HOLES WILL BE A MINIMUM OF 2" BELOW THE TOP OF THE INLET STRUCTURES (BOTTOM OF RINGS)
(3) DRAIN TILES SHALL NOT BE ALLOWED IN THE RING OF THE STRUCTURE OF INLETS OR SEWER ACCESS STRUCTURES

CROSS-SECTION VIEW

TYPICAL INLET CONFIGURATION WITH UNDERDRAIN CORED INTO WALL WITH CROSSPIPE ONLY

FOUND AT LOW POINTS WITHOUT FLANKING INLETS & INLETS PRIOR TO INTERSECTIONS



2' SUMP ON ALL INLETS

SECTION B-B

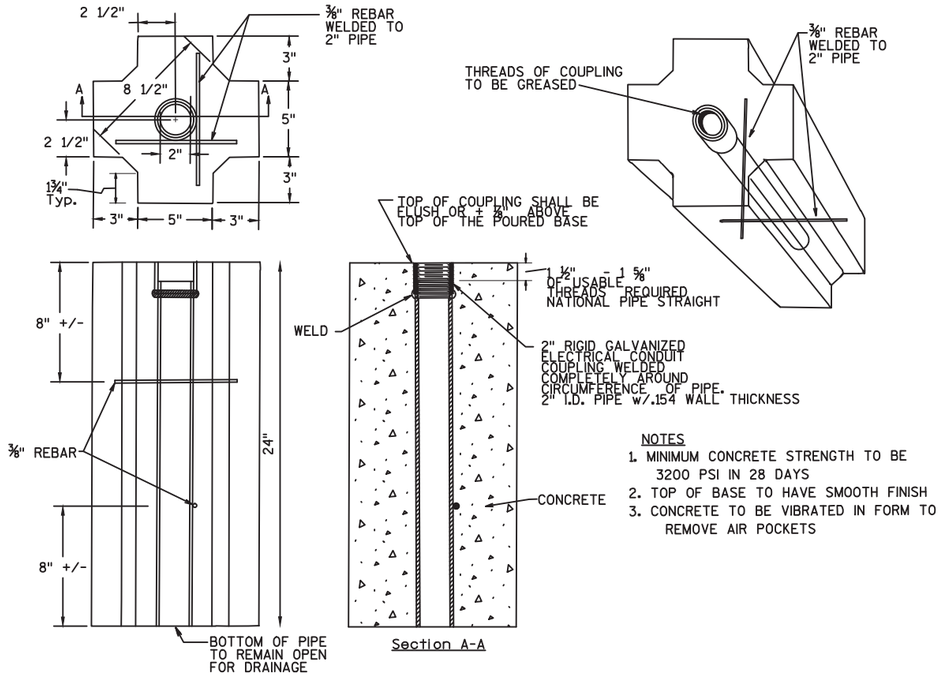
NOTE:
(1) CORE HOLES SHALL PROVIDE FOR A MINIMUM OF 2" OF CONCRETE BETWEEN THE CUTOUT FOR A CONCRETE PIPE AND THE EDGE OF THE CORE HOLE.
(2) CORE HOLES MAY HAVE 0" CLEARANCE FROM THE INSIDE WALLS OF A STRUCTURE.

CROSS-SECTION VIEW

TYPICAL INLET IN SUMP CONDITION WITH UNDERDRAIN CORED INTO WALL WITH PIPE FOUND AT FLANKING INLETS NEAR LOWPOINTS

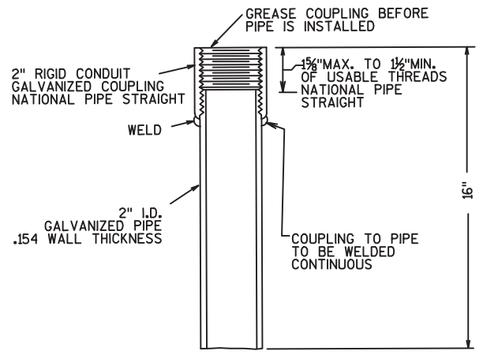
UNDERDRAIN PIPE DETAIL

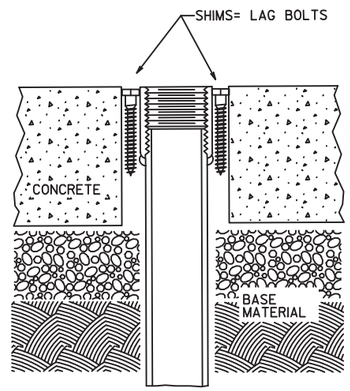
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 32	E



NOTES
1. MINIMUM CONCRETE STRENGTH TO BE 3200 PSI IN 28 DAYS
2. TOP OF BASE TO HAVE SMOOTH FINISH
3. CONCRETE TO BE VIBRATED IN FORM TO REMOVE AIR POCKETS

PRECAST CONCRETE SIGN BASE

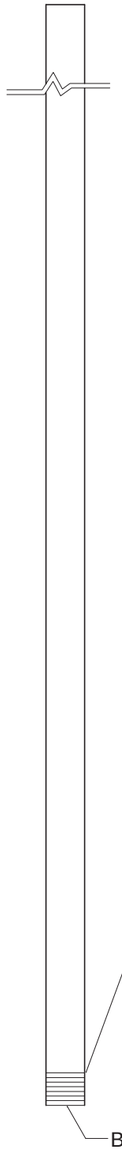




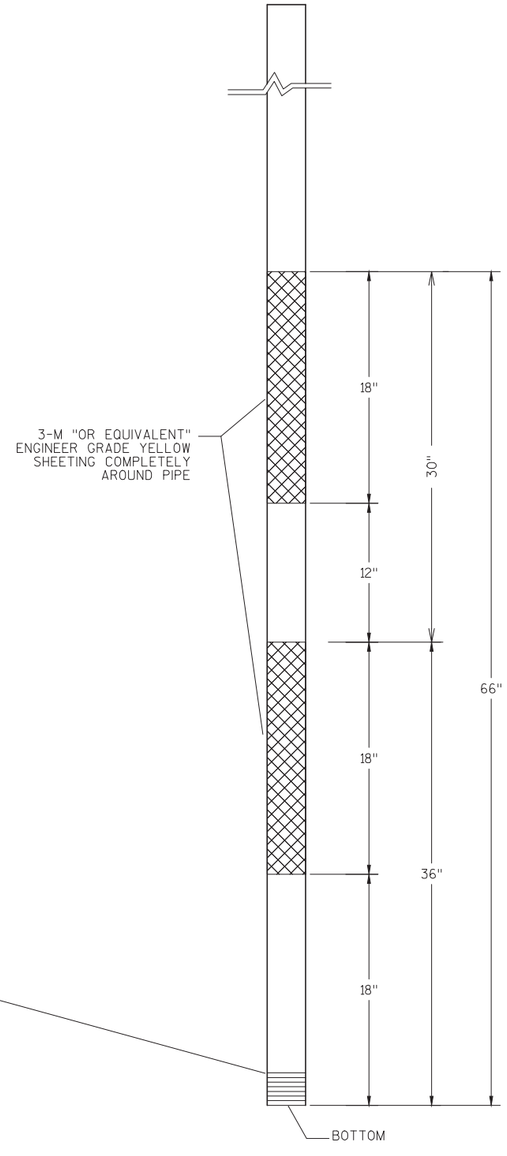
SIGN POST PIPE INSERT IN CONCRETE INSTALLATION:
Drill or core drill 3 1/8" hole all the way through the concrete to the base material. Temporarily hand-tighten a threaded pipe about 4 feet long into the insert (see insert detail). Drive the insert into the base material at a level/plumb position until the insert is flush with the top of the concrete. Shim insert to a level/plumb position using various sizes of lag bolts. Remove temporary pipe, install permanent pipe. Use large pipe wrench to tighten until insert turns, then reset shims/or add shims until pipe no longer turns. Re-tighten pipe, recheck level/plumb/top of concrete with insert.
Mix up a batch of waterproof anchoring cement for concrete that has a compressive strength of 8000psi at 28 days. The anchoring cement should be mixed up to a liquid consistency, not a paste. Pour the anchoring cement between the concrete and outside of the pipe, until flush with the top of the insert. Quickly recheck insert for level/plumb/top of concrete since the anchoring cement is fast-setting. May need to add more anchoring cement as it settles. Installation needs to be level/plumb, solid and strong when completed.

SIGN POST BASE FOR CONCRETE INSTALLATION DETAIL

2

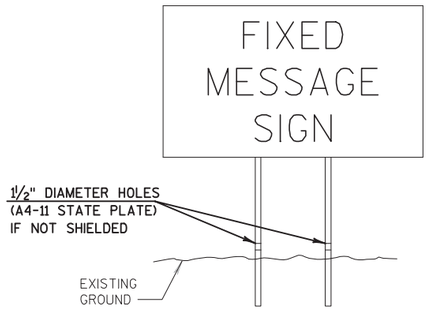


SIGN POST

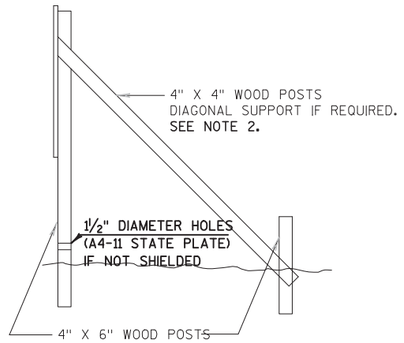


REFLECTIVE SIGN POST
(TRUCK ROUTE STREETS ONLY)

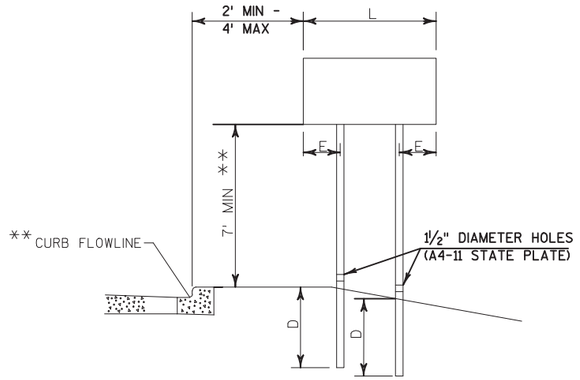
SIGN POST AND REFLECTIVE SIGN POST



FRONT VIEW



SIDE VIEW



URBAN AREA

NOTES

1. SEE TRAFFIC CONTROL SHEETS FOR SIGN LOCATIONS.

2. TWO DIAGONAL SUPPORTS TO BE INCLUDED FOR EACH SIGN OVER 12' LONG AND HIGHER THAN 8'. DIAGONAL SUPPORTS TO BE AFFIXED TO THE OUTSIDE SUPPORTS AND TO BE INCIDENTAL TO THE "TRAFFIC CONTROL FIXED MESSAGE SIGN" ITEM. IF DIAGONAL SUPPORTS ARE USED, SIGN TO BE SHIELDED BEHIND CONCRETE BARRIER OR PLACED OUTSIDE THE CLEAR ZONE.

3. SEE TABLES BELOW FOR REQUIRED NUMBER OF POSTS.

* 6' FROM EDGE OF A PAVED SHOULDER OR 12' FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) OR 2' FROM OUTSIDE EDGE OF GRAVEL, WHICHEVER IS GREATER UNLESS DIRECTED BY PROJECT ENGINEER. SEE NOTE 2 FOR OFFSET REQUIREMENTS WHERE DIAGONAL SUPPORTS ARE USED.

** THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5' MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

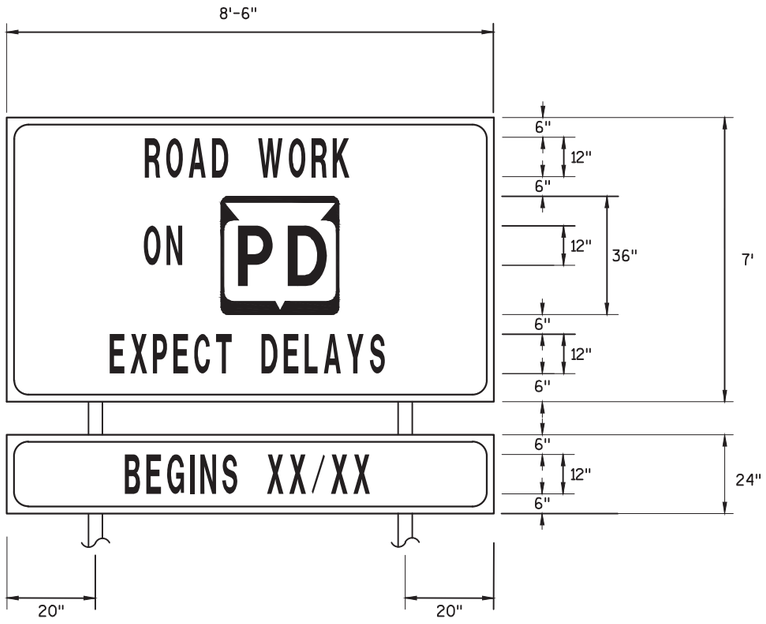
4. 4X6 WOOD POSTS SHALL HAVE TWO HOLES PER STATE PLATE A4-11

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
GREATER THAN 48" LESS THAN 60"	12"
60" TO 120"	L/5

POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

POST MOUNTING DETAIL FOR TRAFFIC CONTROL FIXED MESSAGE SIGNS



GENERAL NOTES:

ALL SIGNS TO HAVE STANDARD REFLECTIVE SHEETING - REFERENCE: "WIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.

AFTER SIGNS HAVE BEEN LOCATED IN THE FIELD, BUT BEFORE INSTALLATION, THE SIGNING AND MARKING SUPERVISOR SHALL VERIFY EACH SIGN LOCATION.

ALL SIGNS TO BE MOUNTED ON WOODED POST SUPPORTS (4"X6"). THE NUMBER OF POSTS REQUIRED FOR EACH LAYOUT IS SHOWN.

THE SIGN ON THIS SHEET IS TO BE PAID UNDER THE ITEM "TRAFFIC CONTROL FIXED MESSAGES SIGNS".

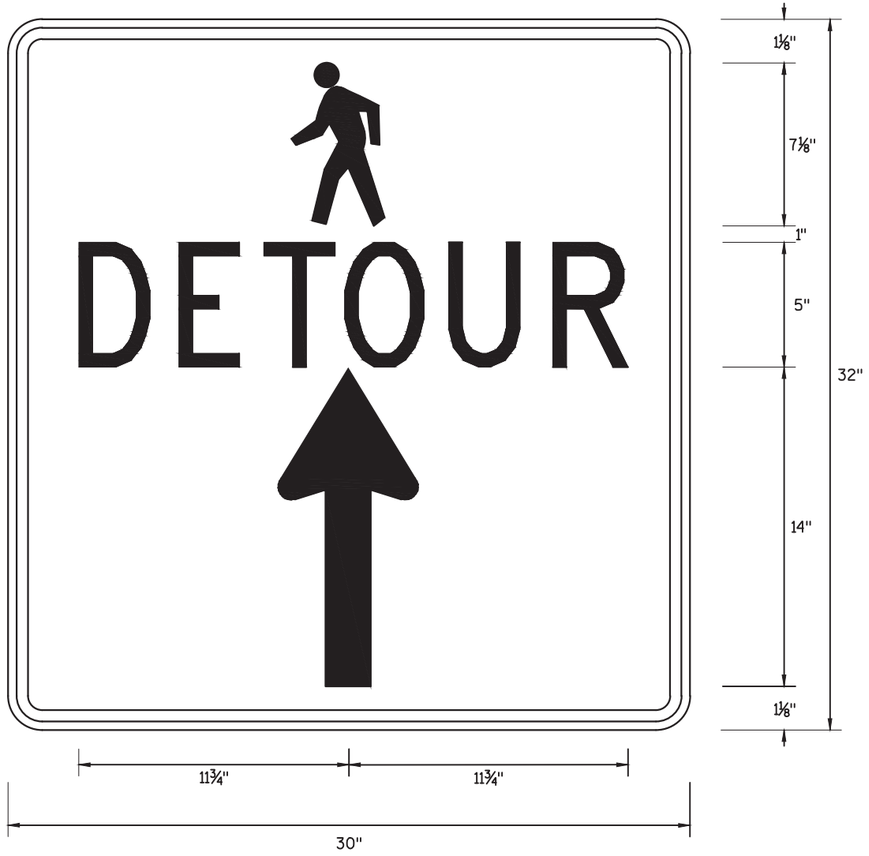
SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE REFLECTIVE BACKGROUND.

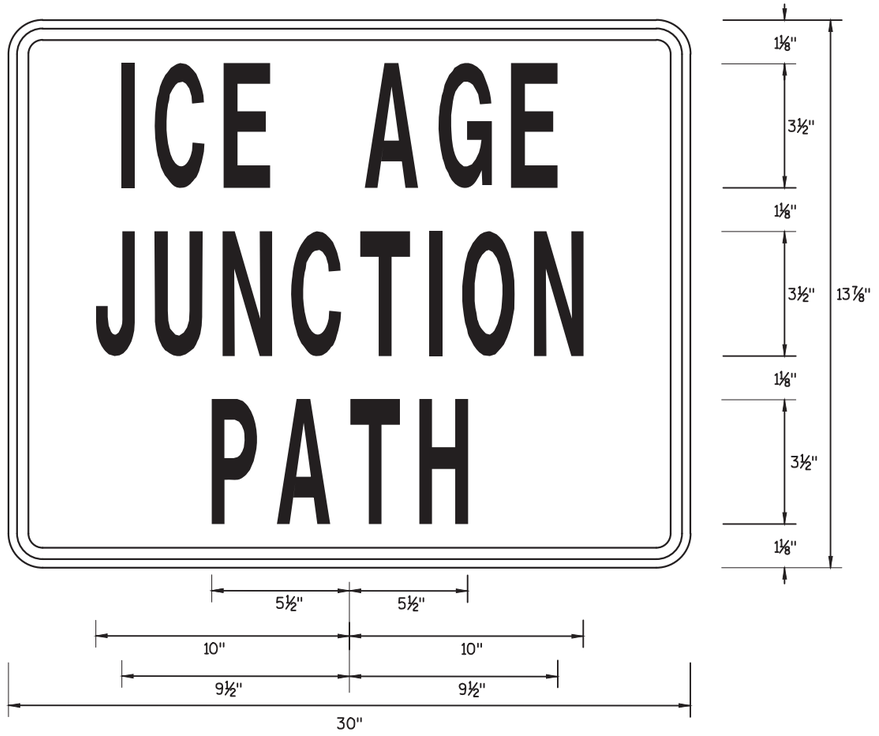
ALL SIGNS SHALL HAVE CAPITAL LETTERS AND NUMERALS:
12" CAPS SHALL BE SERIES "D"
6" CAPS SHALL BE SERIES "C"

SIGN BASE MATERIAL SHALL BE ACCORDING TO SECTION 637.2.1.2.

SIGNS TO BE PLACED 10 DAYS PRIOR TO CONSTRUCTION.

SIGN DETAIL FOR TRAFFIC CONTROL FIXED MESSAGE SIGNS



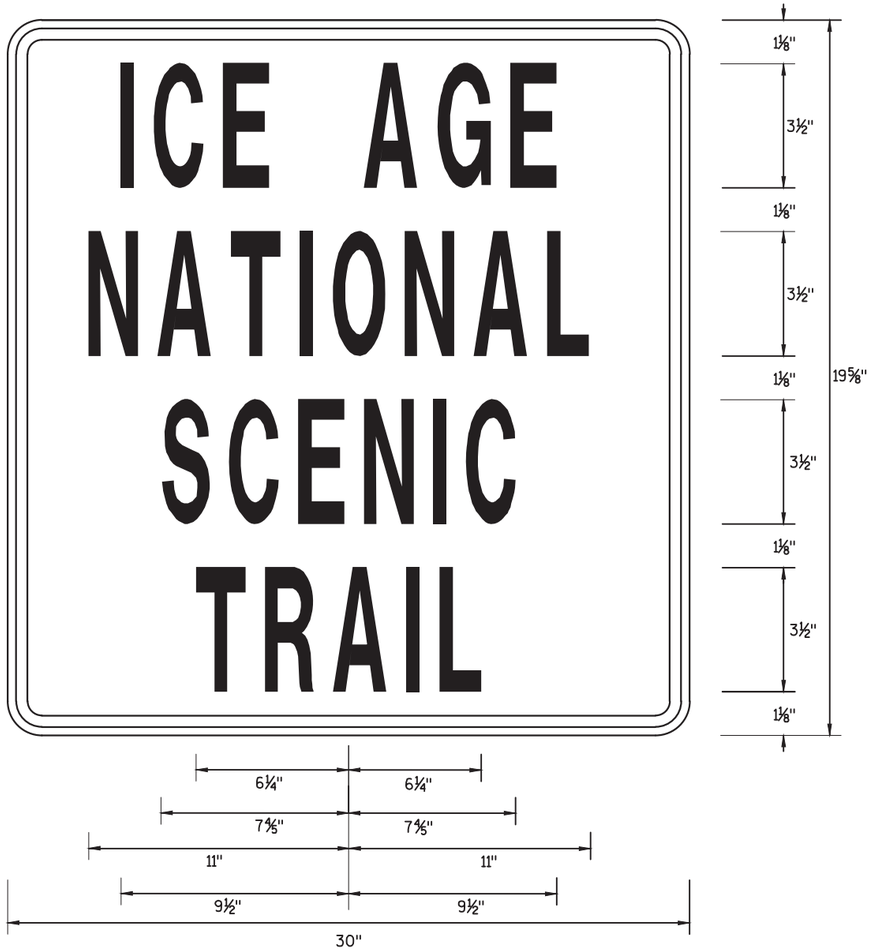


NOTES

1. All Signs are Type II - Type F Reflective - reference WIS DOT Standard Specifications for ROAD and BRIDGE CONSTRUCTION latest edition.
2. COLOR:
   Background - Orange
   Message - Black
3. Message Series - M

SIGN DETAIL FOR TRAFFIC CONTROL DETOUR SIGNS

2



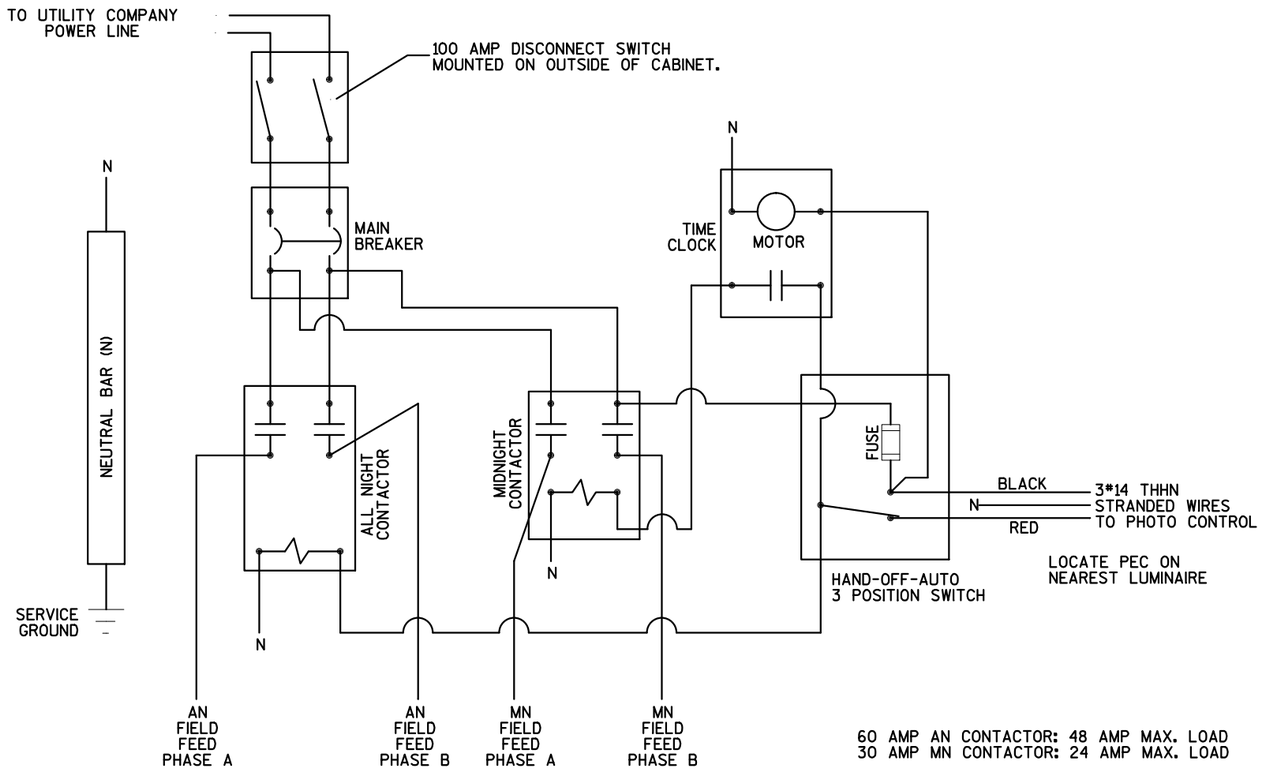


NOTES

1. All Signs are Type II - Type F Reflective - reference WIS DOT Standard Specifications for ROAD and BRIDGE CONSTRUCTION latest edition.
2. COLOR:
   Background - Orange
   Message - Black
3. Message Series - M

SIGN DETAIL FOR TRAFFIC CONTROL DETOUR SIGNS CONTINUED

2



60 AMP AN CONTACTOR: 48 AMP MAX. LOAD
30 AMP MN CONTACTOR: 24 AMP MAX. LOAD

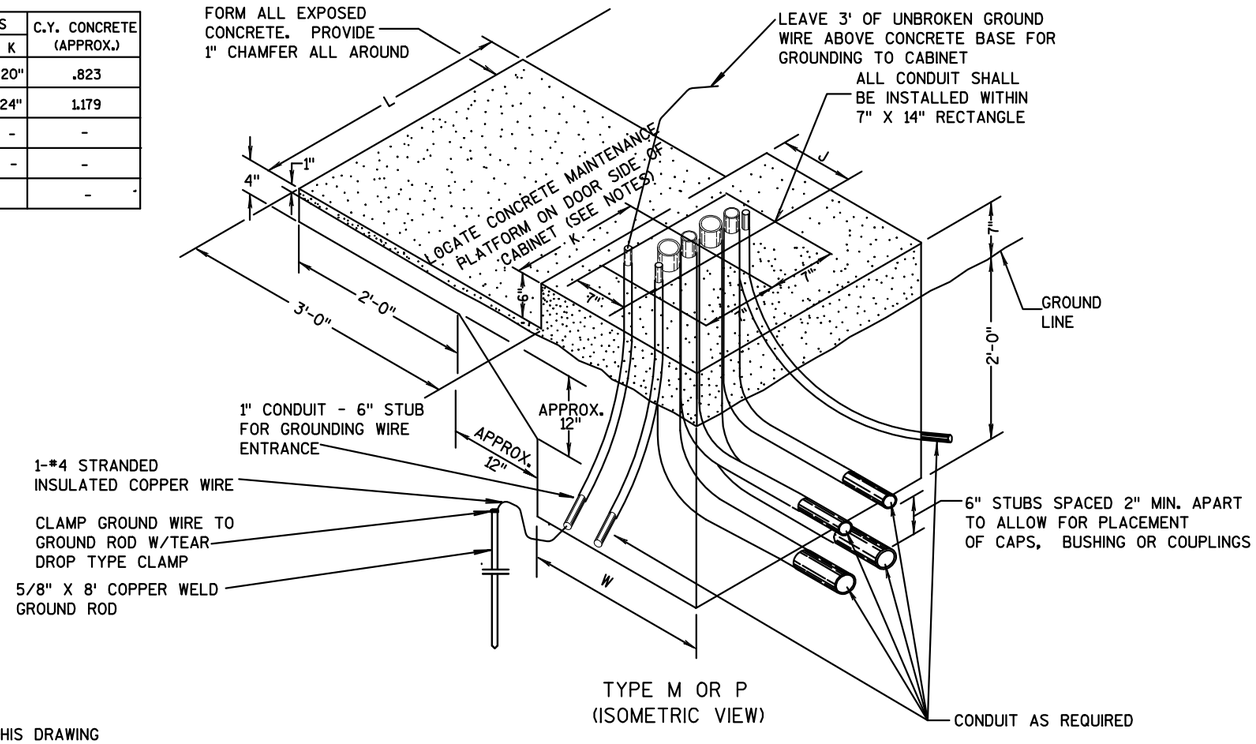
60 AMP CONTACTOR FOR #6 WIRE
100 AMP CONTACTOR FOR #4 WIRE

NOTE:
CONTRACTOR SHALL CONNECT CIRCUIT WIRING IN SUCH A MANNER TO BALANCE THE LOAD BETWEEN PHASE A AND B AS CLOSE AS POSSIBLE AND AS DIRECTED BY THE ENGINEER.

120V STREET LIGHT CONTROL PANEL ELECTRICAL SERVICE DETAIL

2

CONCRETE BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	L	W	J	K	
TYPE M	40"	30"	12"	20"	.823
TYPE P	48"	30"	16"	24"	1.179
TYPE M MODIFIED	-	-	-	-	-
TYPE P MODIFIED	-	-	-	-	-
TYPE OTHER	-				-



TYPE M OR P
(ISOMETRIC VIEW)

CONCRETE BASES TYPE M & P DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

DEPTH OF CONDUIT EXITING THE BASE SHALL MATCH THE DEPTH SPECIFIED FOR CONDUIT INSTALLATION.
ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL.

MAINTENANCE PLATFORM SHALL NOT BE INSTALLED WHEN THE SURROUNDING AREA IS PAVED.

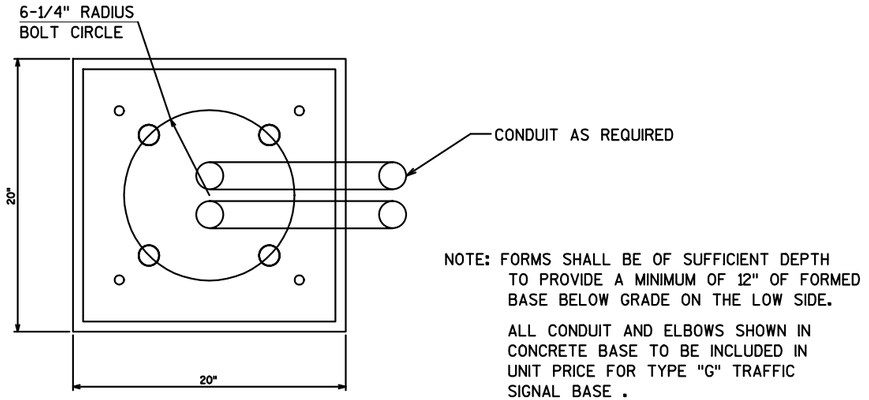
MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MINIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

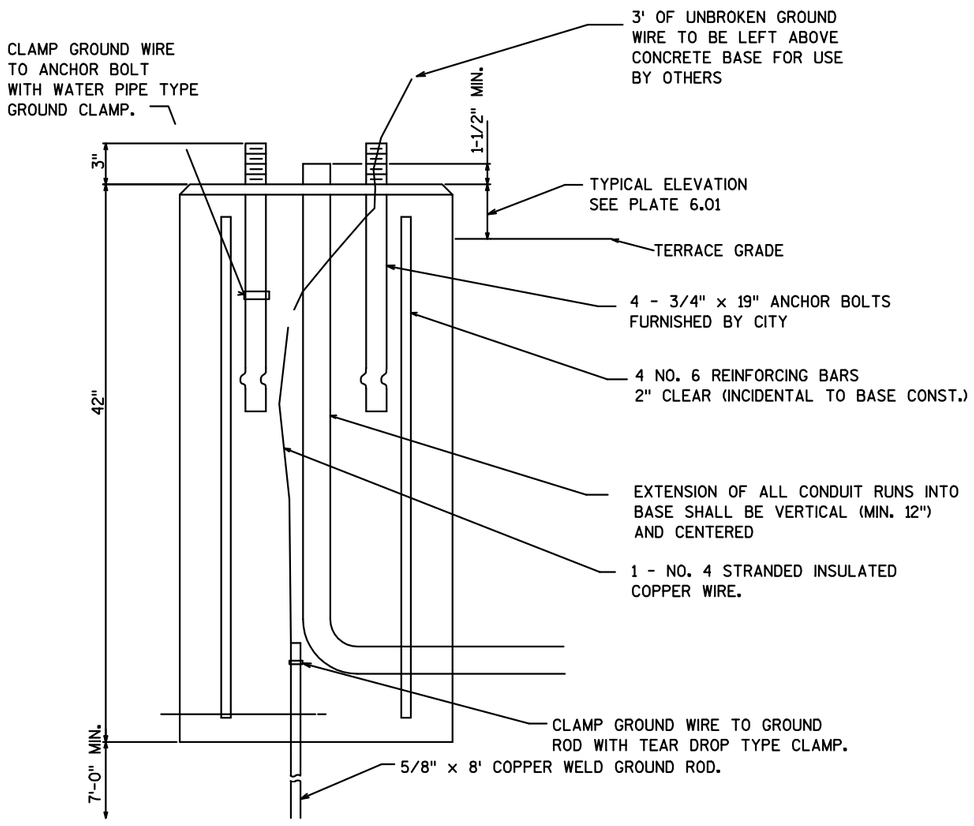
CONDUITS SHALL EXIT THE BASE IN THE DIRECTION OF THE STRUCTURE IT IS TERMINATING INTO.

MAINTENANCE PLATFORM SIZE MAY VARY ON ACCOUNT OF CONDITIONS. VERIFY THE MAINTENANCE PLATFORM SIZE WITH ENGINEER PRIOR TO POURING BASE.



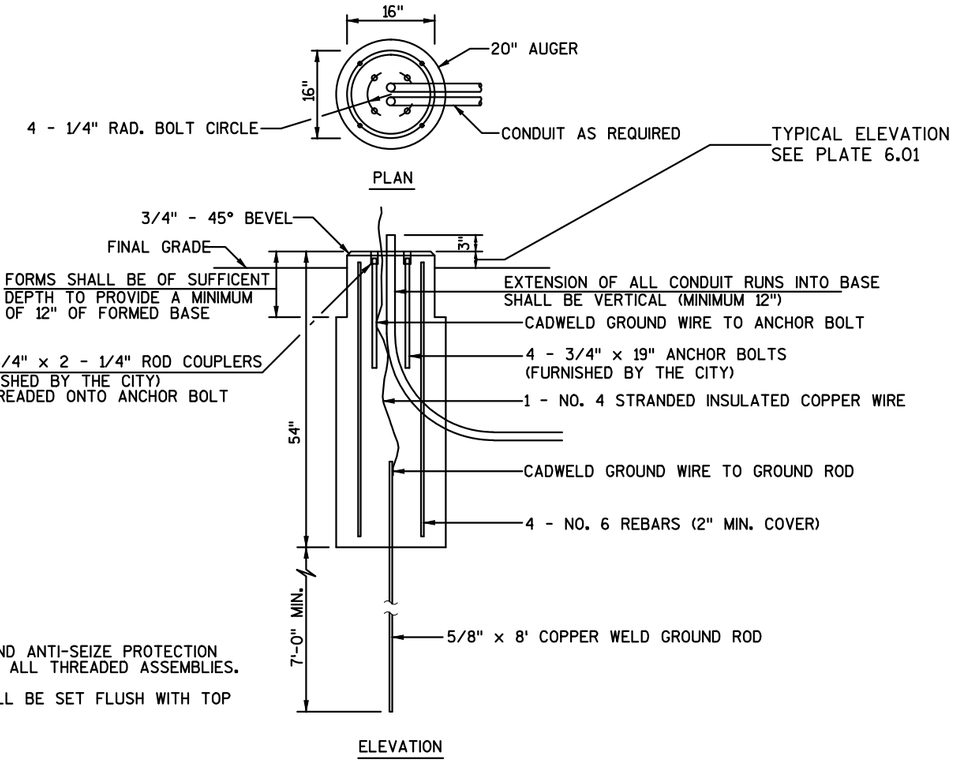
NOTE: FORMS SHALL BE OF SUFFICIENT DEPTH TO PROVIDE A MINIMUM OF 12" OF FORMED BASE BELOW GRADE ON THE LOW SIDE.

ALL CONDUIT AND ELBOWS SHOWN IN CONCRETE BASE TO BE INCLUDED IN UNIT PRICE FOR TYPE "G" TRAFFIC SIGNAL BASE .



CONCRETE BASES TYPE G DETAIL

*TOP 12" OF FORMED BASE TO BE ROUND, 16" DIAMETER AS SHOWN, OR DIRECTED BY THE ENGINEER.



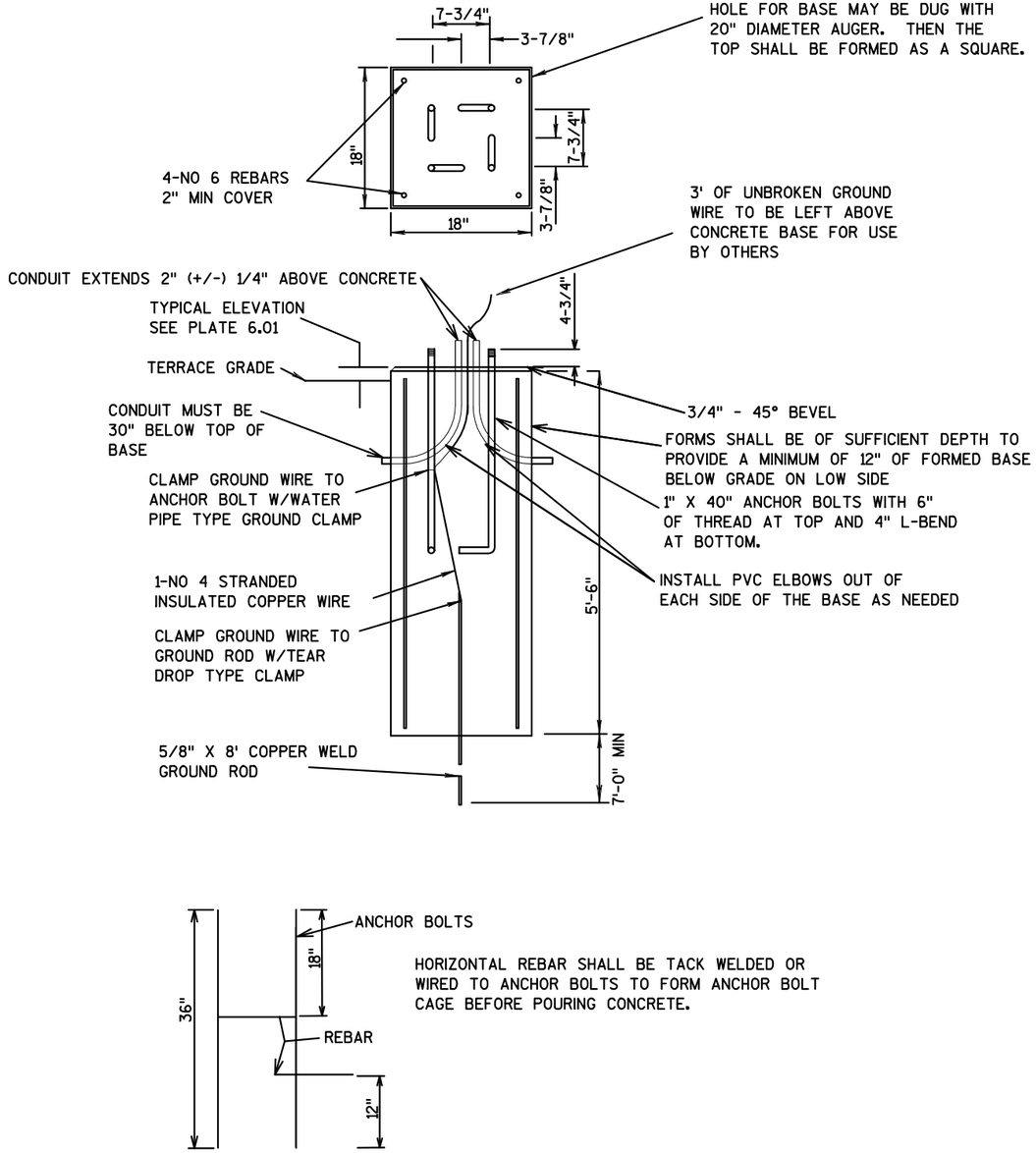
NOTES:

RUST, CORROSION AND ANTI-SEIZE PROTECTION SHALL PROVIDED AT ALL THREADED ASSEMBLIES.

ROD COUPLERS SHALL BE SET FLUSH WITH TOP OF BASE.

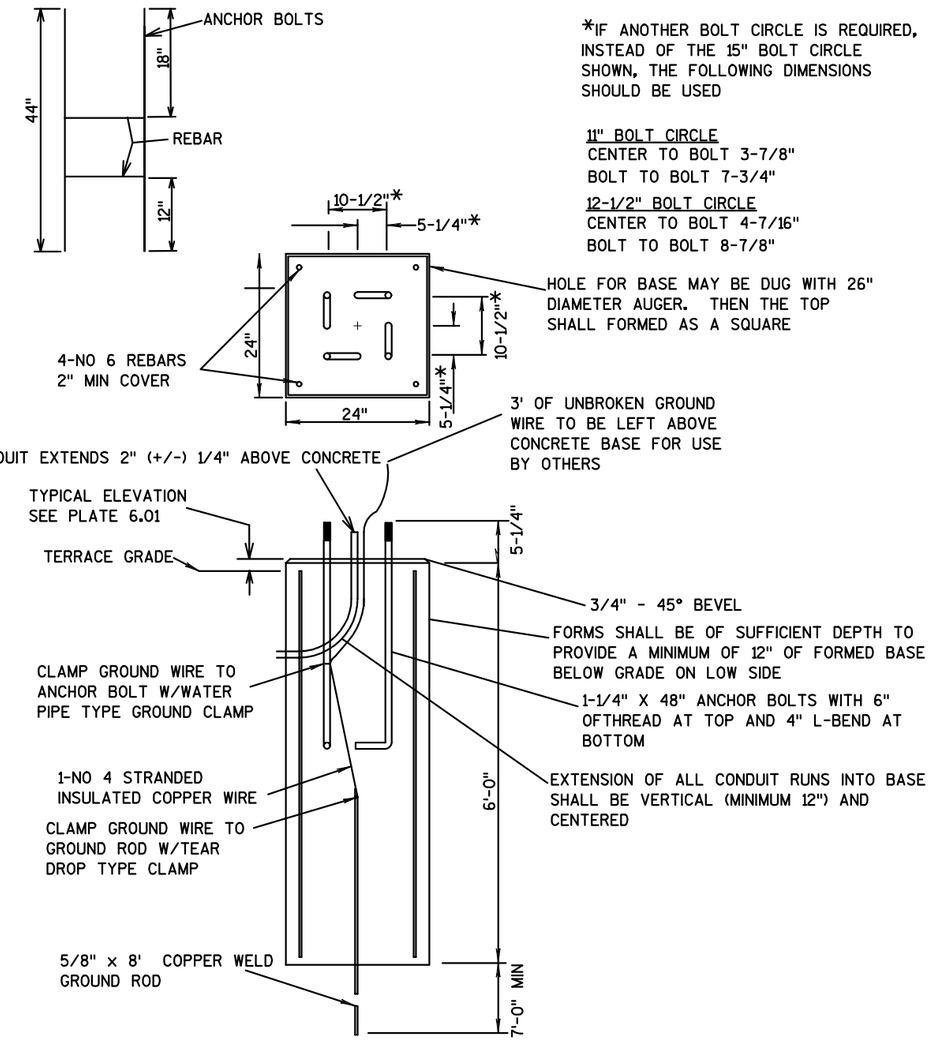
ELEVATION

CONCRETE BASES TYPE LB-2 DETAIL

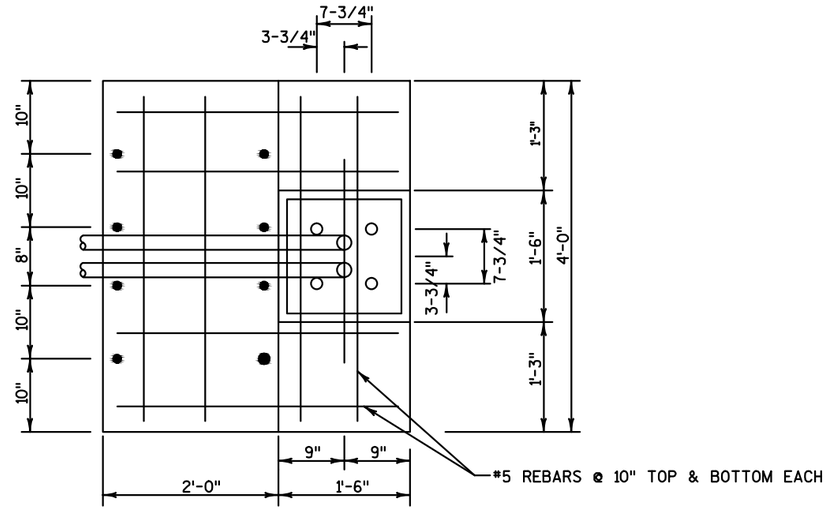


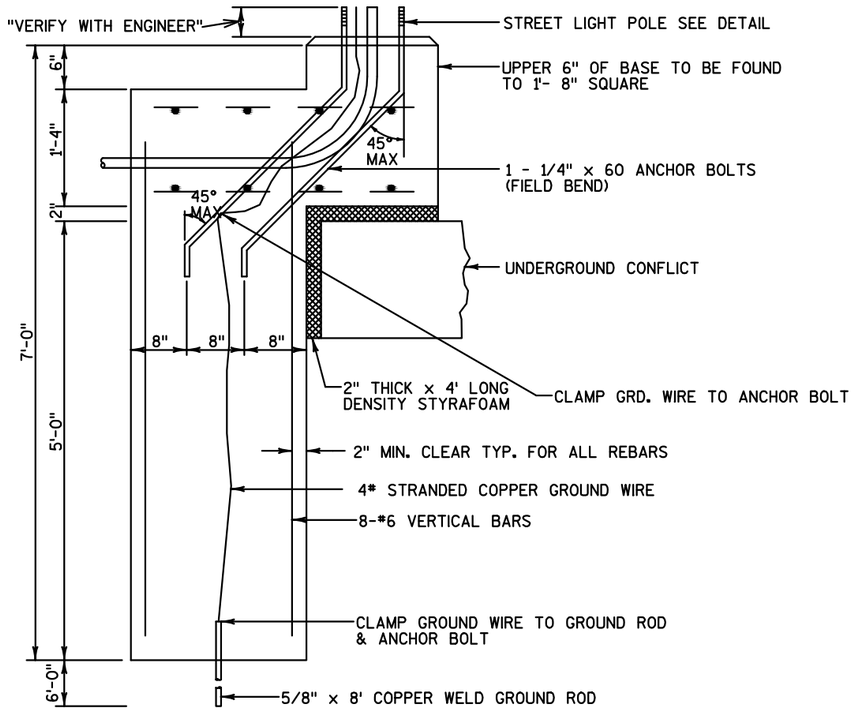
CONCRETE BASES TYPE LB-3 DETAIL

HORIZONTAL REBAR SHALL BE TACK WELDED OR WIRED TO ANCHOR BOLTS TO FORM ANCHOR BOLT CAGE BEFORE POURING CONCRETE.

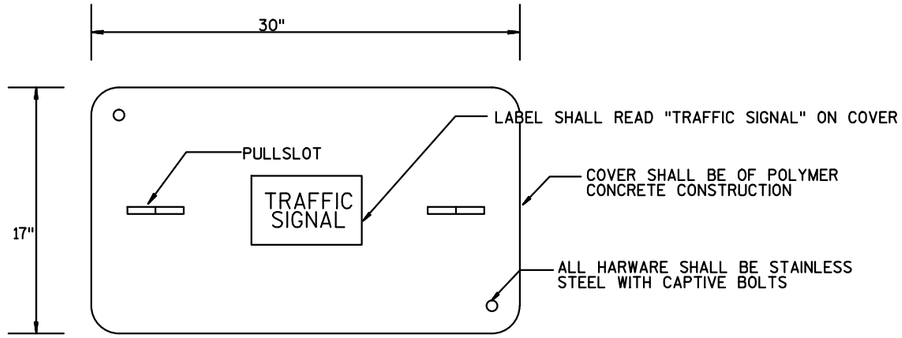


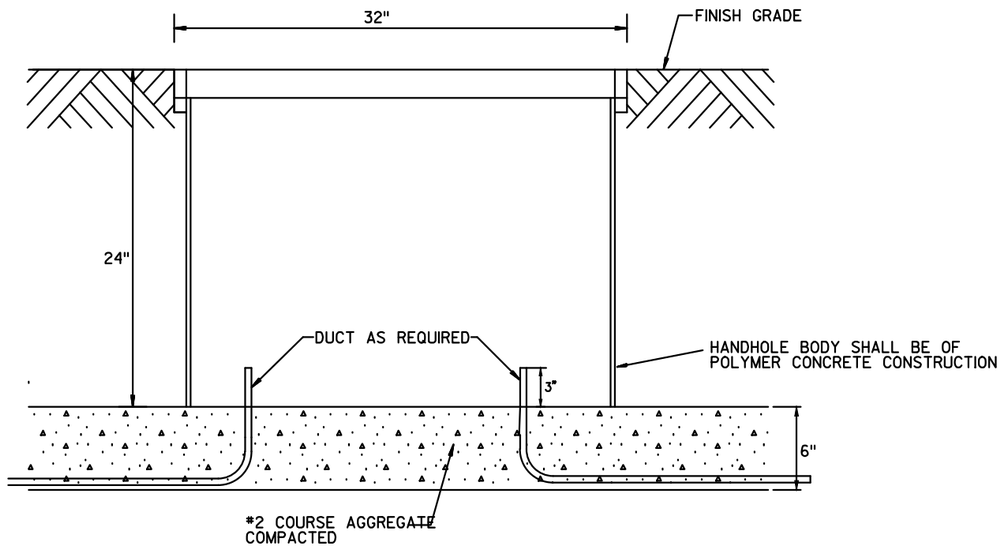
CONCRETE BASES TYPE LB-8 DETAIL



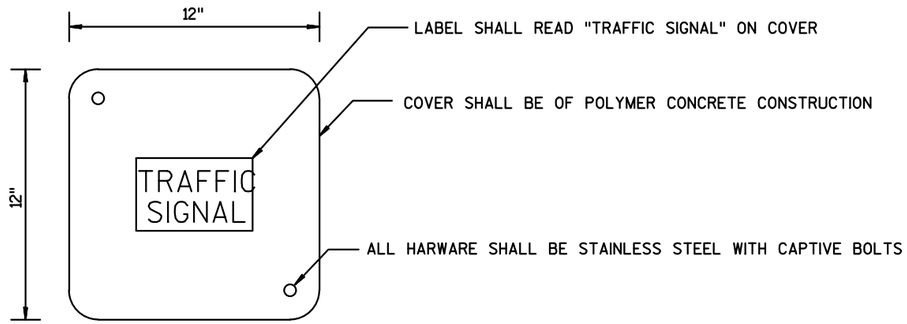


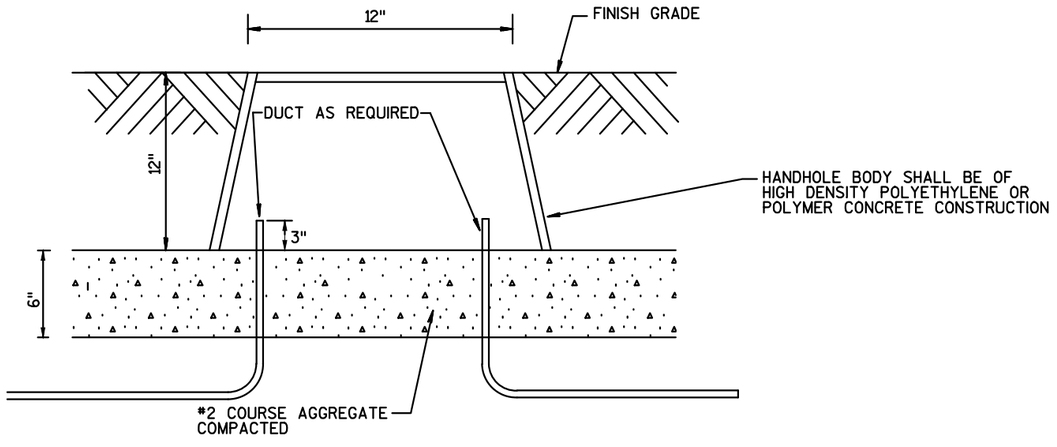
CONCRETE BASES OFFSET DETAIL



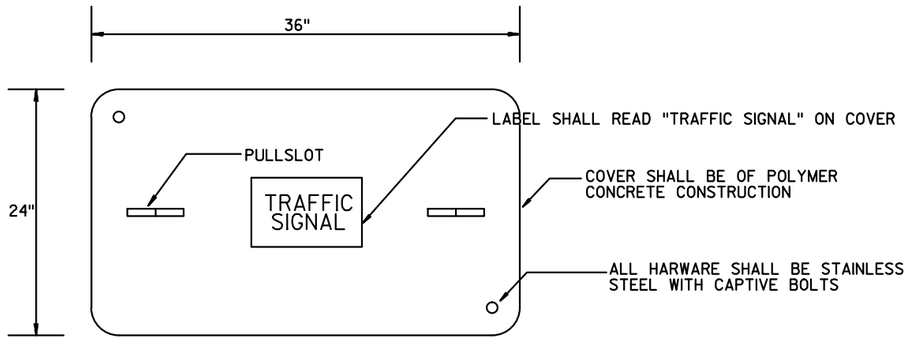


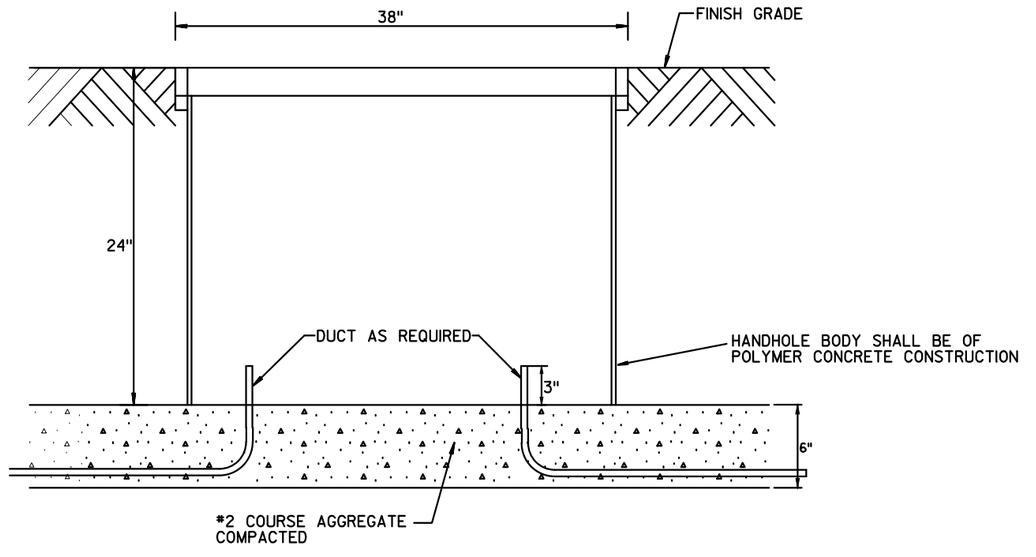
ELECTRICAL PULL BOX TYPE 1 DETAIL



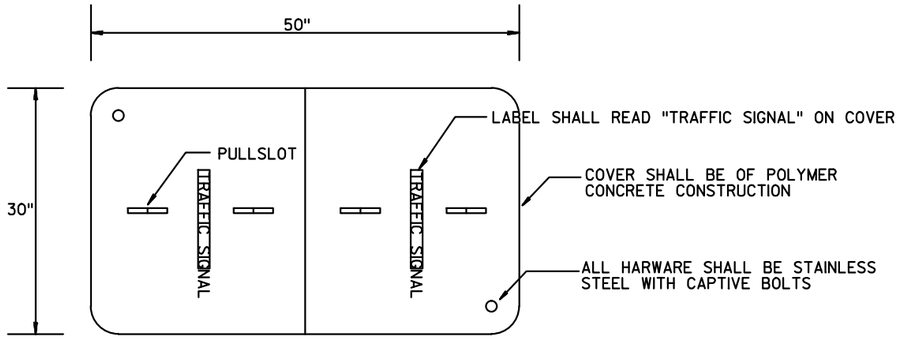


ELECTRICAL PULL BOX TYPE 3 DETAIL

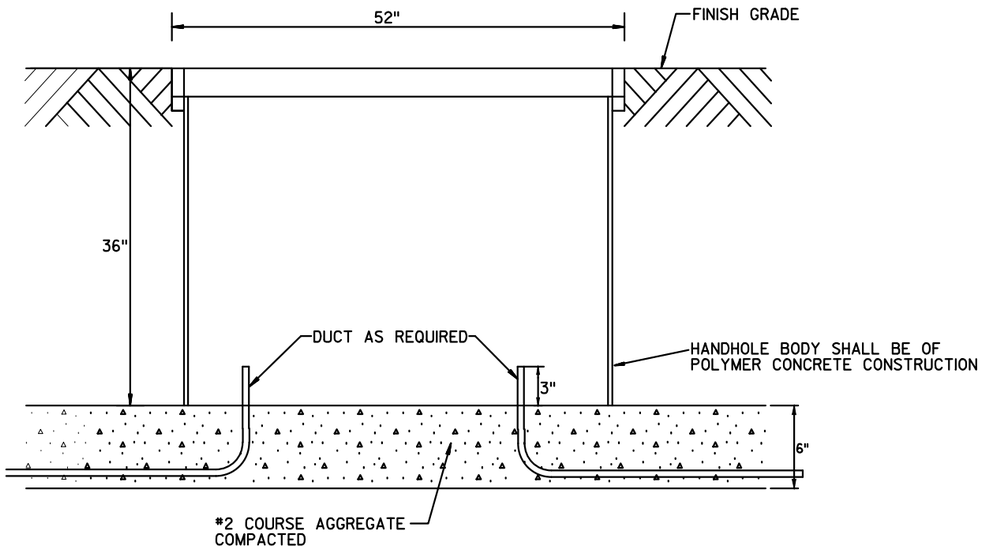




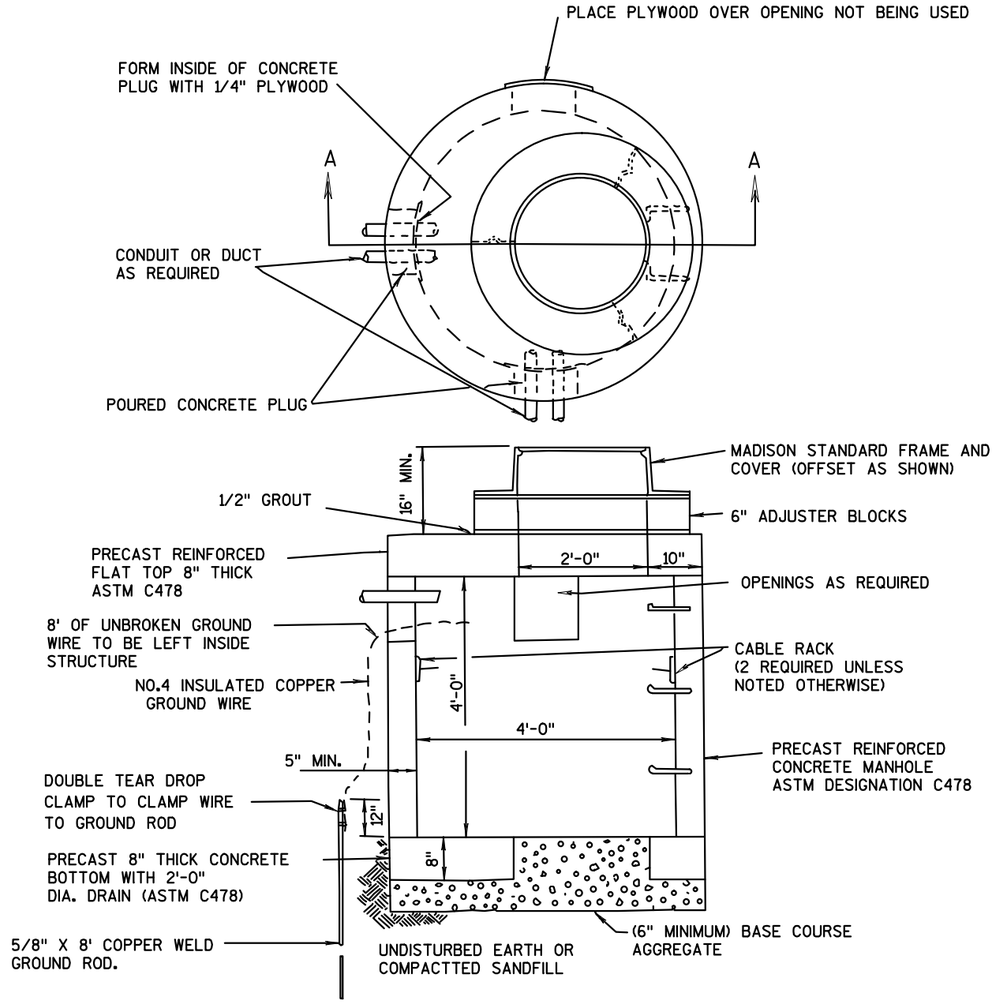
ELECTRICAL PULL BOX TYPE 5 DETAIL



*15,000 LBS MAXIMUM LOAD OVER A 10'X10' TEST AREA RATING FOR COVER AND BOX



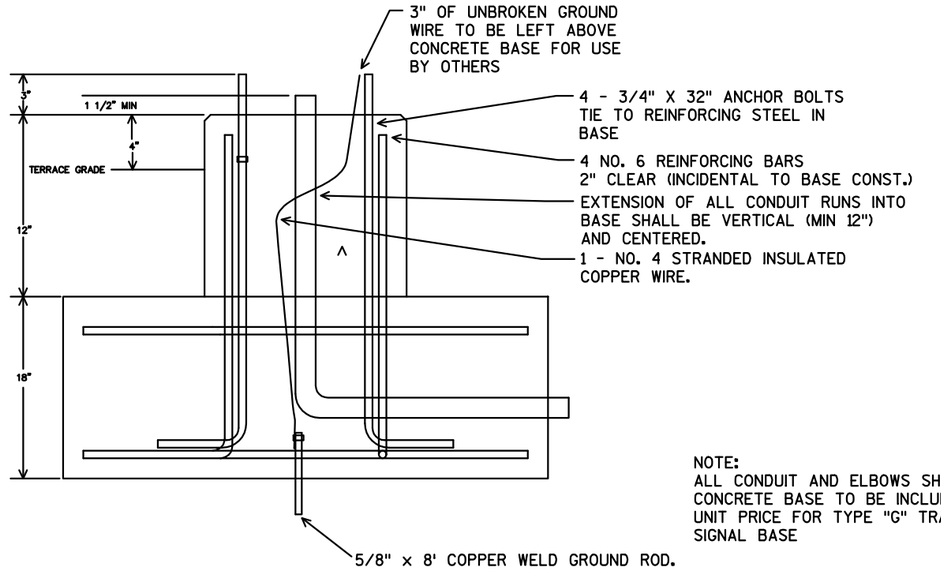
ELECTRICAL PULL BOX TYPE 7 DETAIL



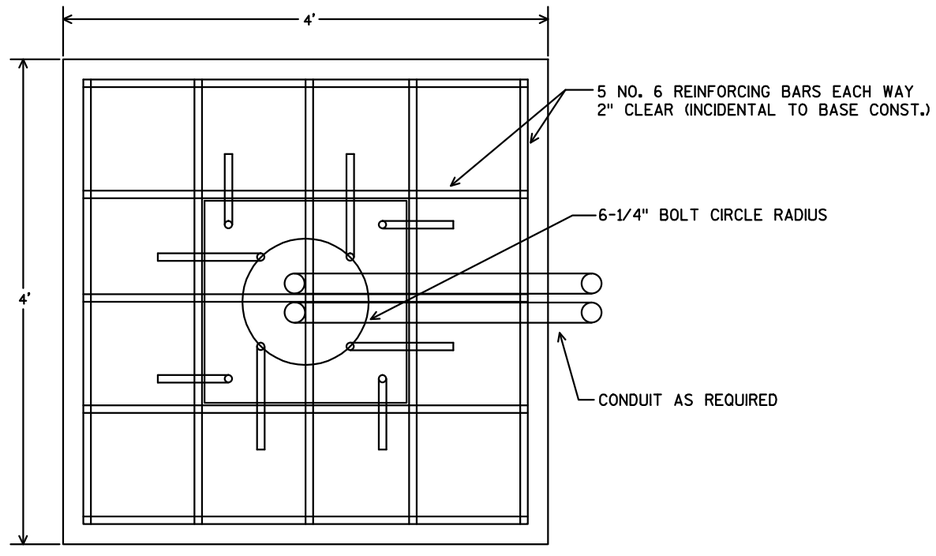
SECTION A-A

ELECTRICAL UTILITY ACCESS STRUCTURE DETAIL

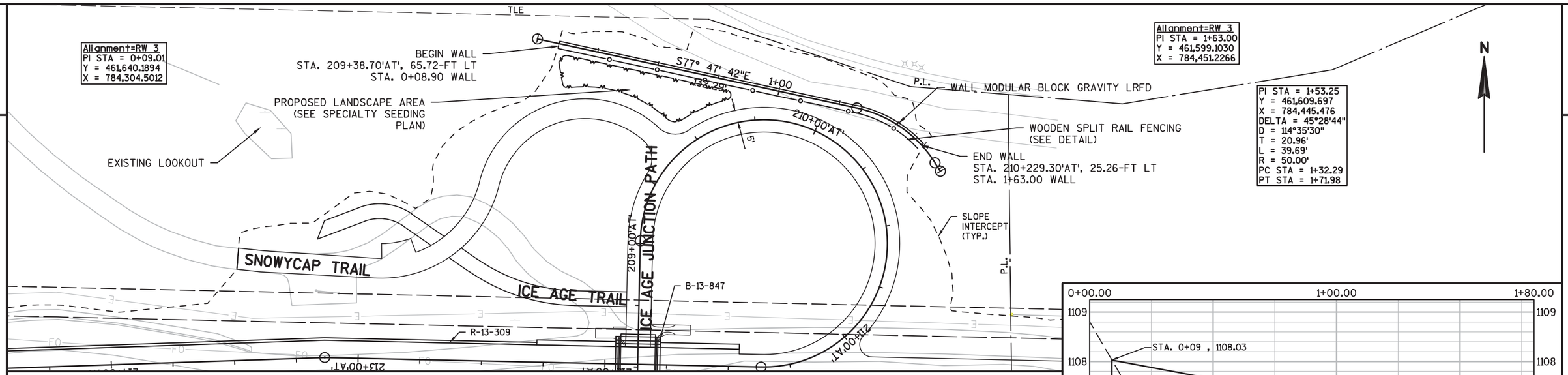
2

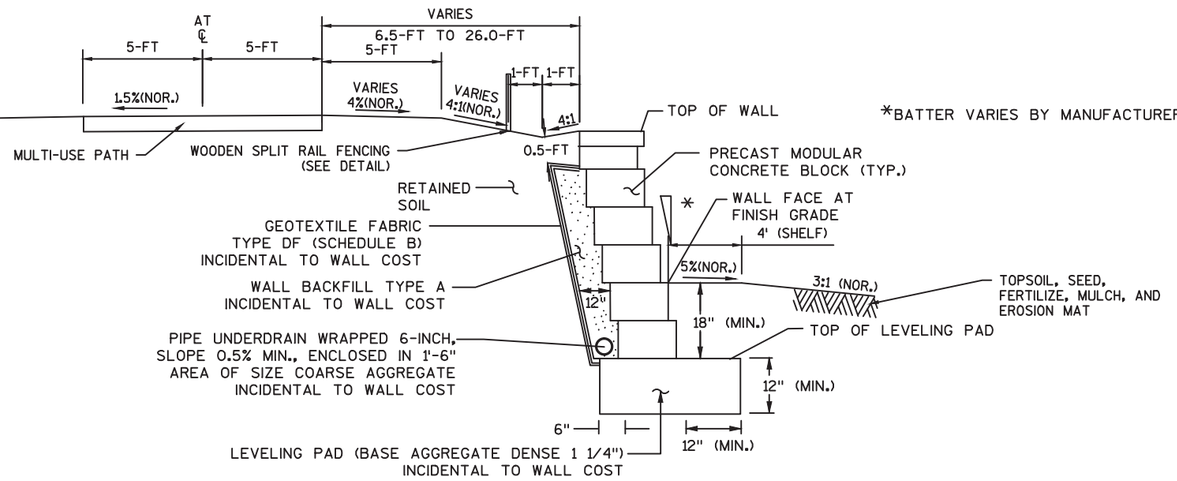


NOTE:
ALL CONDUIT AND ELBOWS SHOWN IN CONCRETE BASE TO BE INCLUDED IN UNIT PRICE FOR TYPE "G" TRAFFIC SIGNAL BASE



CONCRETE BASES TYPE G SPREAD FOOTING DETAIL



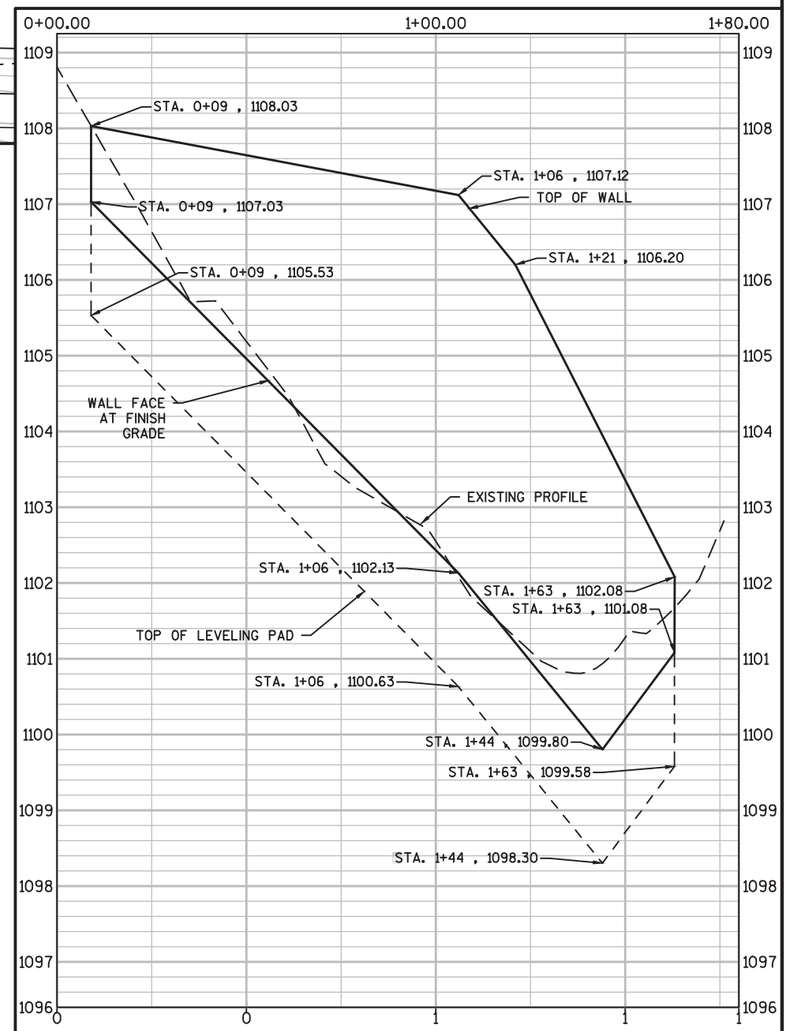


*BATTER VARIES BY MANUFACTURER

WALL MODULAR BLOCK GRAVITY LRFD TYPICAL SECTION

NTS

STA. 0+09 - STA 1+63 WALL
(ICE AGE JUNCTION PATH)



DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE GRADES PROVIDED ON THIS DETAIL.

DESIGN FOR THE RETAINING WALL TO PROVIDE FOR THE FINISHED SLOPE BEHIND THE WALL AS SHOWN ON THE CROSS SECTIONS.

WALL TO HAVE SPLIT BLOCK APPEARANCE AND BE GRAY IN COLORATION.

ALLOWABLE SOIL BEARING CAPACITY = 2,500 PSF.

SOIL PARAMETERS

SOIL DESCRIPTION	UNIT WEIGHT (pcf)	FRICTION ANGLE (degrees)	COHESION (psf)
GRANULAR FILL	125	30°	0

2

N

STR. 43.1
(PLUG END)

POND B

STR. 43.0

BROAD CRESTED WIER
ELEV. 986.00

STR. 42.2

STR. 42.1
(SEE DETAIL)

STR. 42.0

STR. 41.0

STR. 41.1
(SEE DETAIL)

STR. 41.2

COLLECT EXISTING DRAINAGE
DITCH INTO POND A

POND A

P.L.

TLE

BADGER MILL CREEK

BROAD CRESTED WIER
ELEV. 984.25

SLOPE INTERCEPT (TYP.)

DELINEATED WETLAND (TYP.)

MMSD SANITARY
SEWER COVER
(SEE DETAIL)

16.0 (SEE
STORM
SEWER
PLANS)

MUIR FIELD ROAD

1.0 (SEE STORM SEWER PLANS)

B-13-0848 BOX
CULVERT EXTENSION

CTH PD (WB)

CTH PD (EB)

SNOWY
PARKWAY

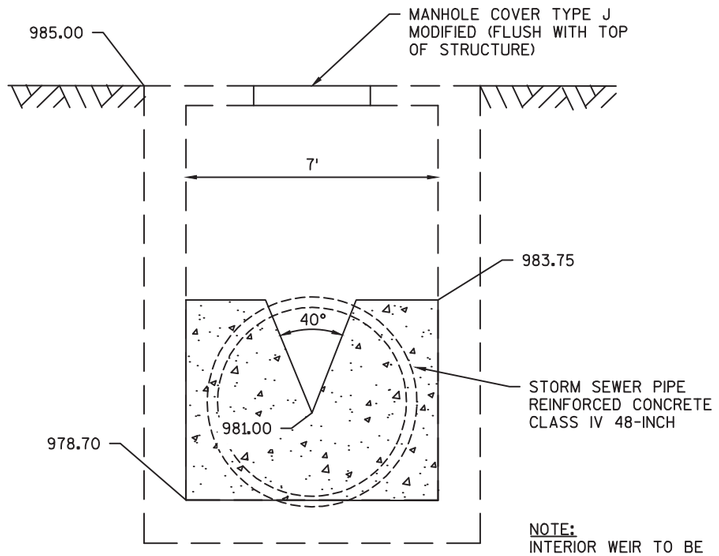
COUNTRY
GROVE
DRIVE

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 47	E

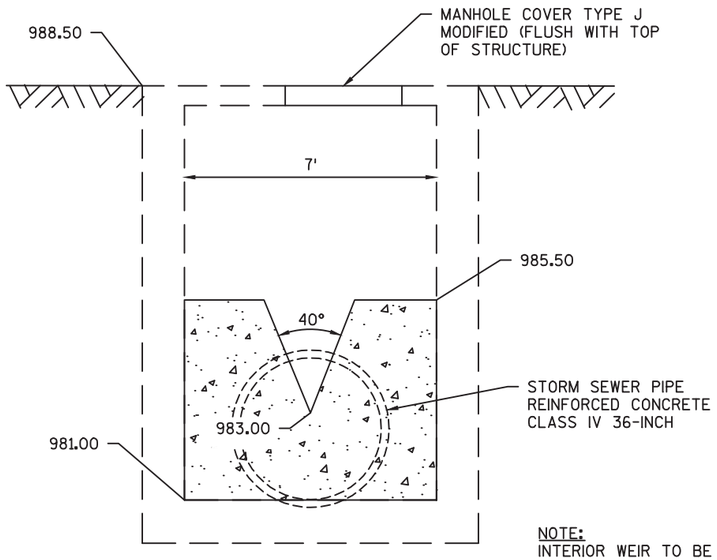
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CONSTRUCTION DETAILS\021001-CD-POND.DWG
LAYOUT NAME - ****

PLOT DATE : 10/20/2016 11:34 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1:80

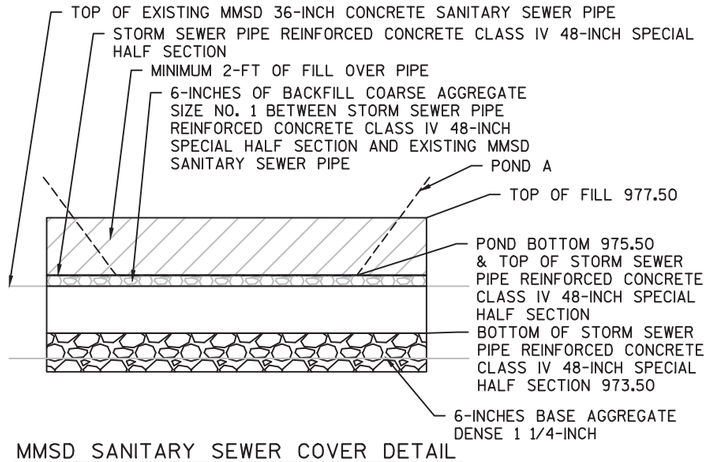
WISDOT/CADDS SHEET 42



STRUCTURE 41.1 DETAIL
MANHOLE 7-FT DIAMETER SPECIAL

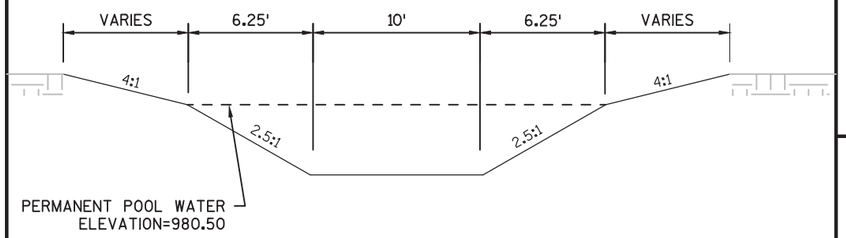


STRUCTURE 42.1 DETAIL
MANHOLE 7-FT DIAMETER SPECIAL

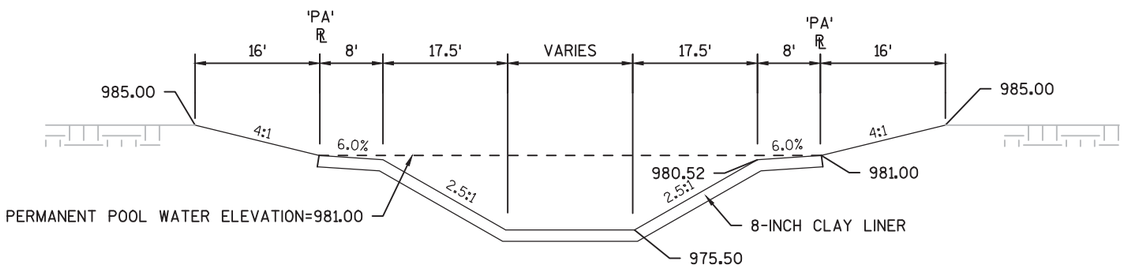


MMSD SANITARY SEWER COVER DETAIL

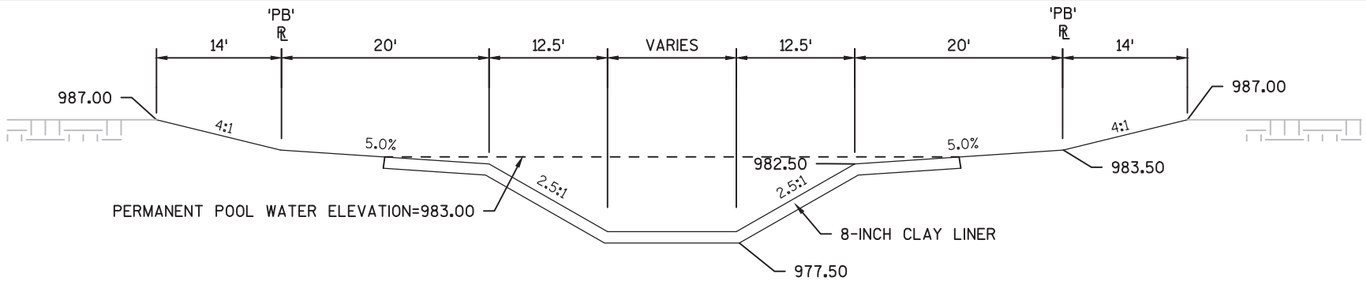
2



SECTION C-C

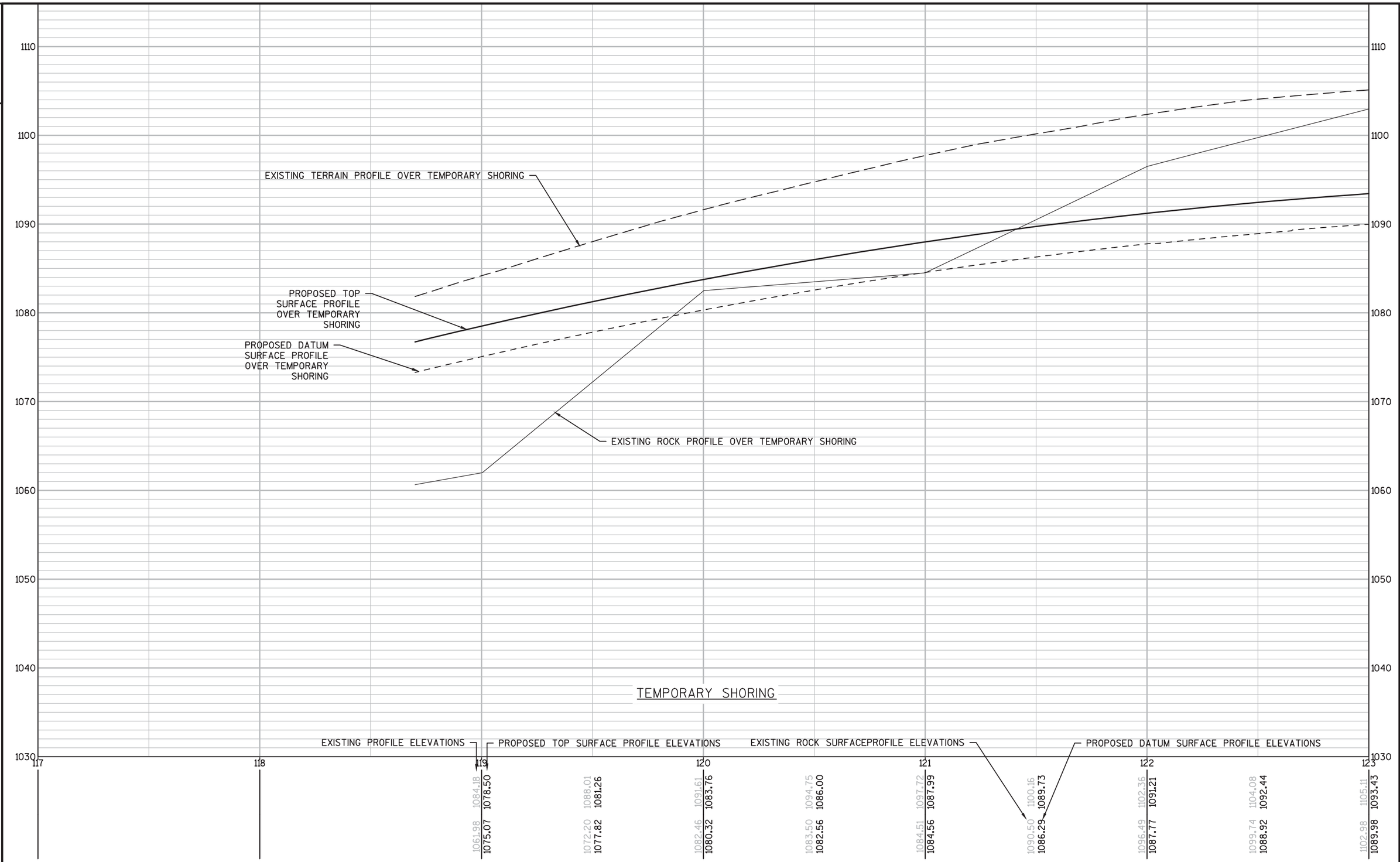


SECTION A-A



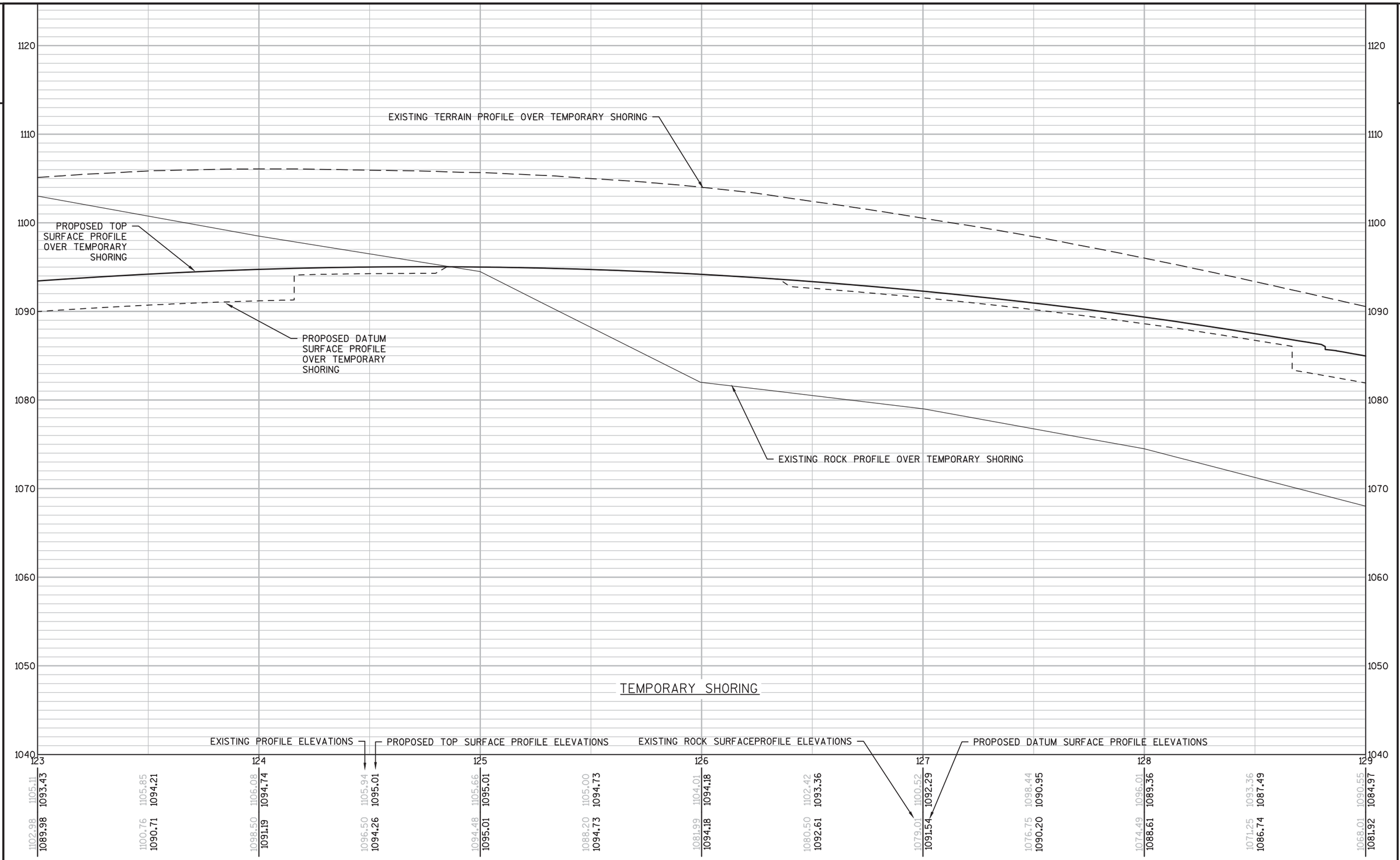
SECTION B-B

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 48	E

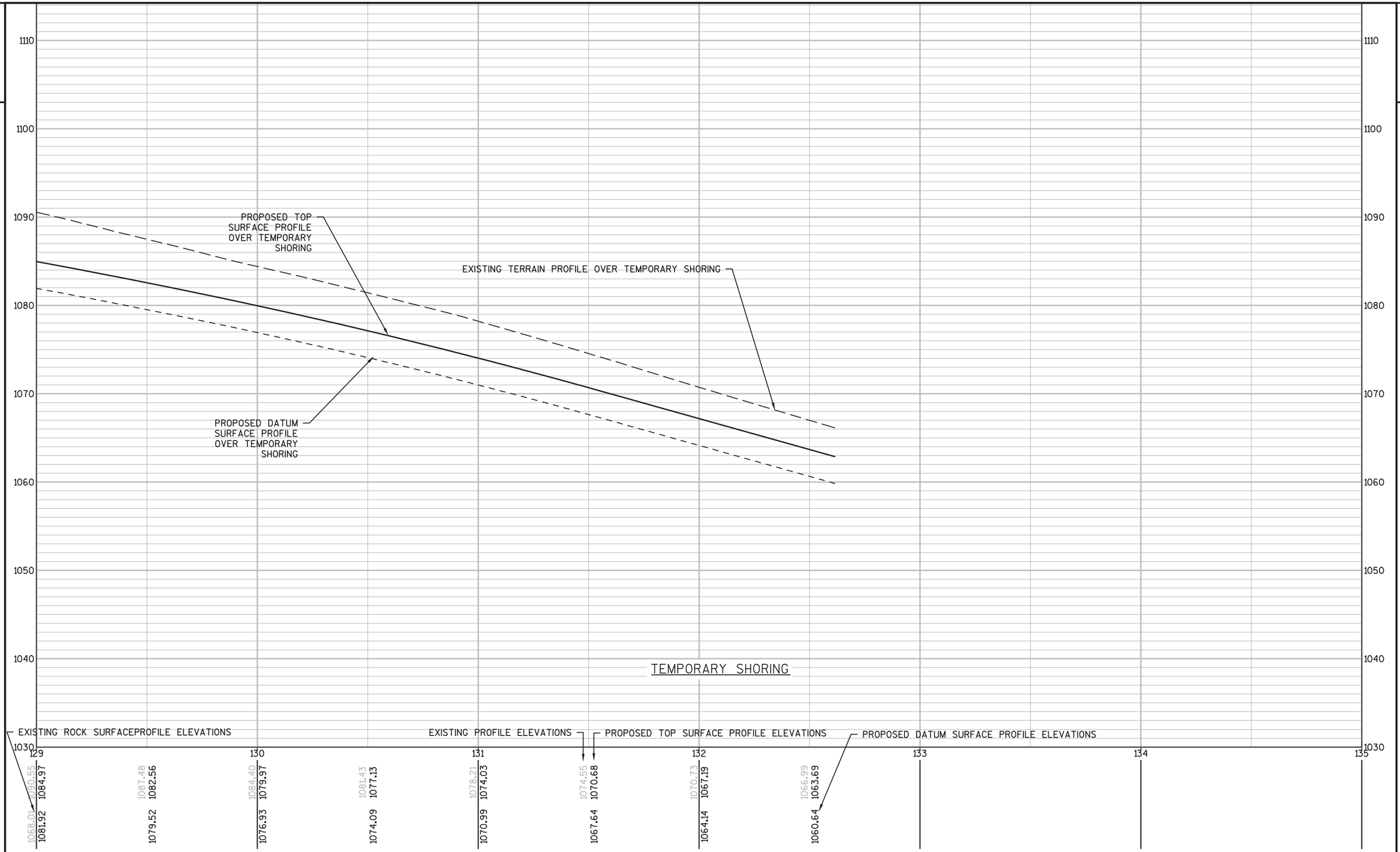


PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	CONSTRUCTION DETAIL	SHEET 49	E

2



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CONSTRUCTION DETAIL	SHEET 50	E



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CONSTRUCTION DETAIL	SHEET 51	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CONSTRUCTION DETAILS\021001-CD-SHEET PILING PROFILE.DWG
LAYOUT NAME - ****
PLOT DATE : 10/17/2016 2:58 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

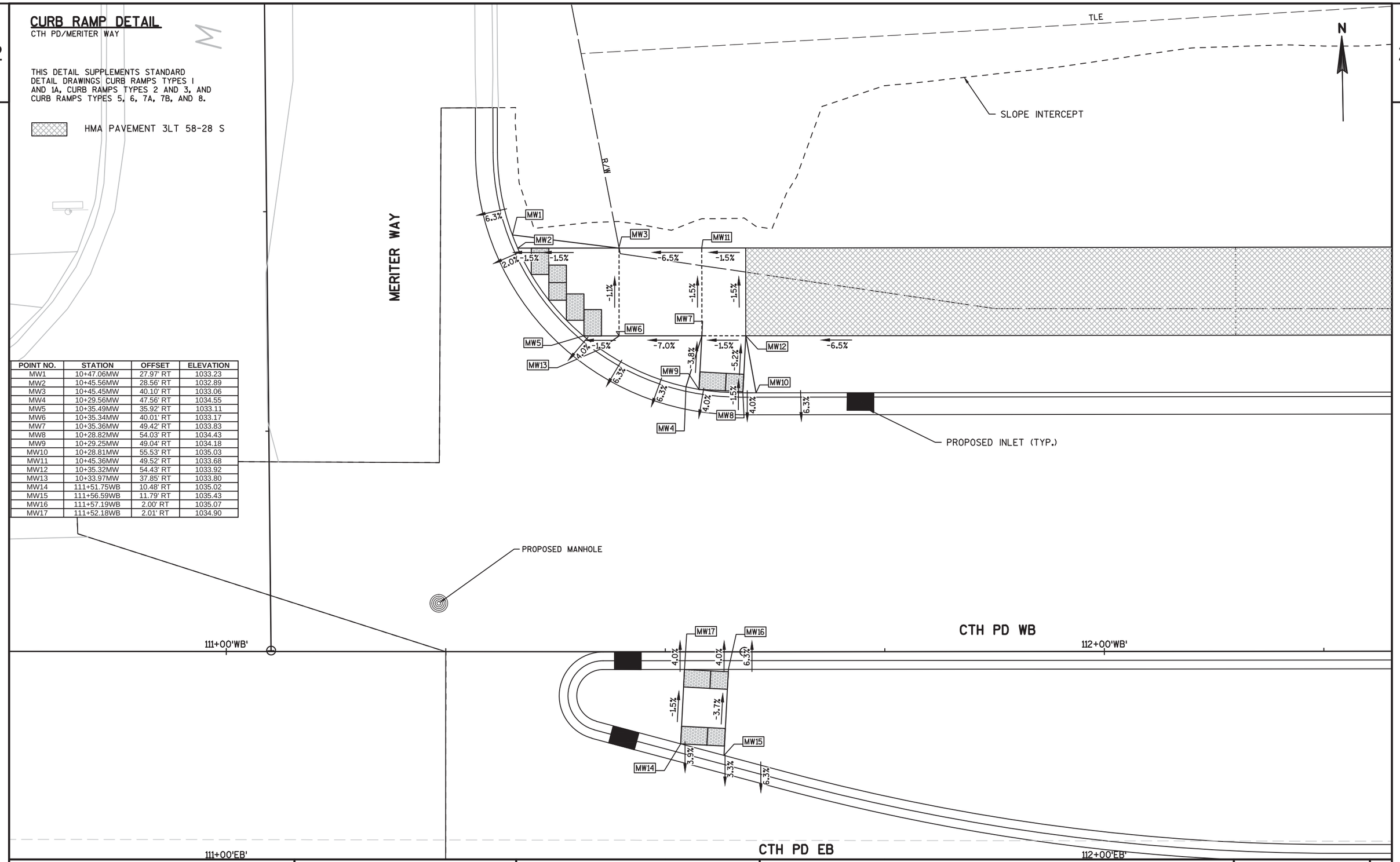
CURB RAMP DETAIL

CTH PD/MERITER WAY

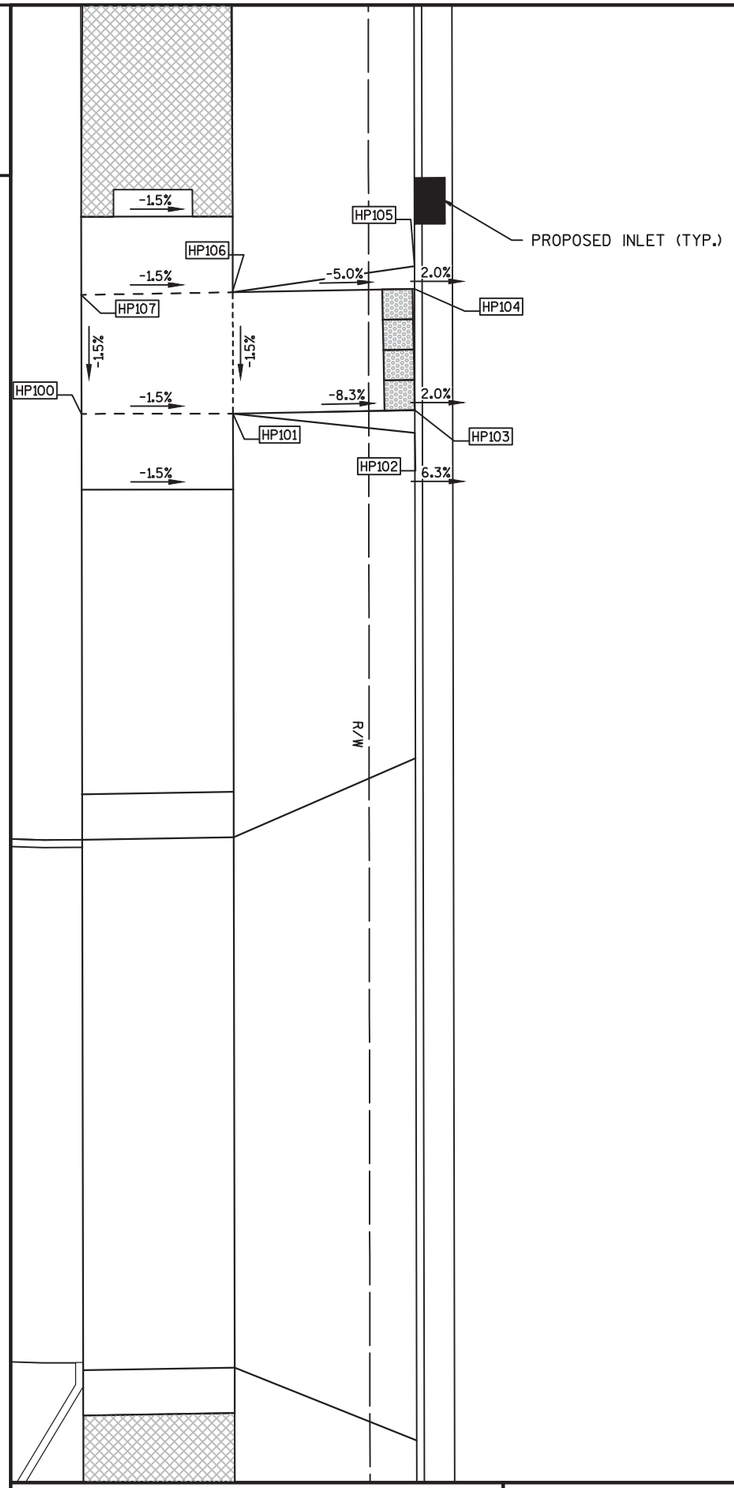
THIS DETAIL SUPPLEMENTS STANDARD DETAIL DRAWINGS CURB RAMPS TYPES 1 AND 1A, CURB RAMPS TYPES 2 AND 3, AND CURB RAMPS TYPES 5, 6, 7A, 7B, AND 8.

HMA PAVEMENT 3LT 58-28 S

POINT NO.	STATION	OFFSET	ELEVATION
MW1	10+47.06MW	27.97' RT	1033.23
MW2	10+45.56MW	28.56' RT	1032.89
MW3	10+45.45MW	40.10' RT	1033.06
MW4	10+29.56MW	47.56' RT	1034.55
MW5	10+35.49MW	35.92' RT	1033.11
MW6	10+35.34MW	40.01' RT	1033.17
MW7	10+35.36MW	49.42' RT	1033.83
MW8	10+28.82MW	54.03' RT	1034.43
MW9	10+29.25MW	49.04' RT	1034.18
MW10	10+28.81MW	55.53' RT	1035.03
MW11	10+45.36MW	49.52' RT	1033.68
MW12	10+35.32MW	54.43' RT	1033.92
MW13	10+33.97MW	37.85' RT	1033.80
MW14	111+51.75WB	10.48' RT	1035.02
MW15	111+56.59WB	11.79' RT	1035.43
MW16	111+57.19WB	2.00' RT	1035.07
MW17	111+52.18WB	2.01' RT	1034.90

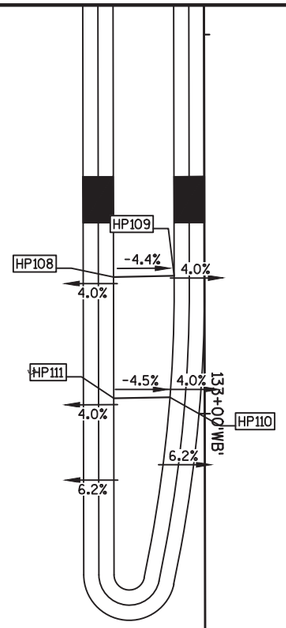


PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	CONSTRUCTION DETAILS: CURB RAMP	SHEET 52	E

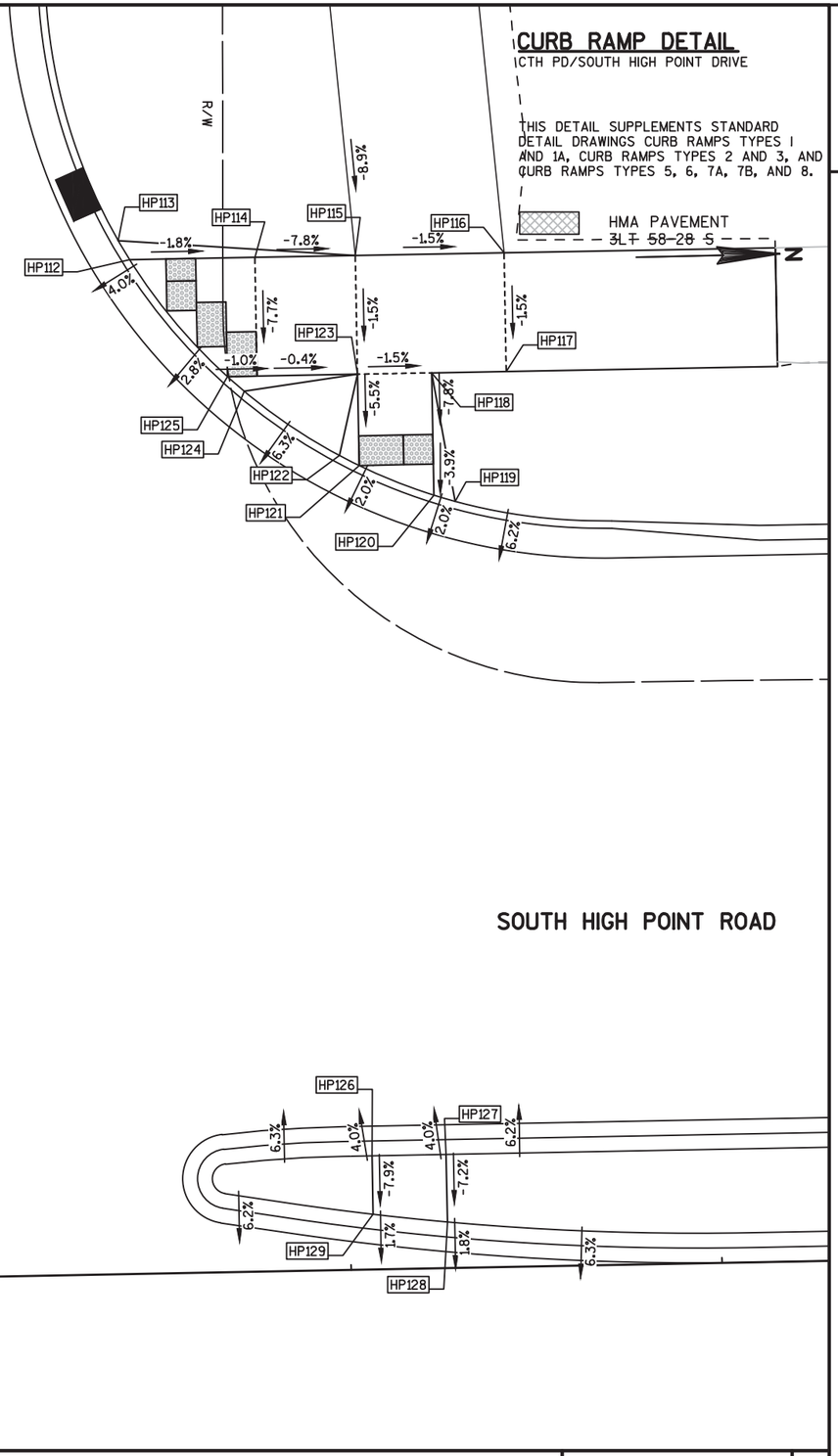


CTH PD EB

133+00EB'



CTH PD WB



SOUTH HIGH POINT ROAD

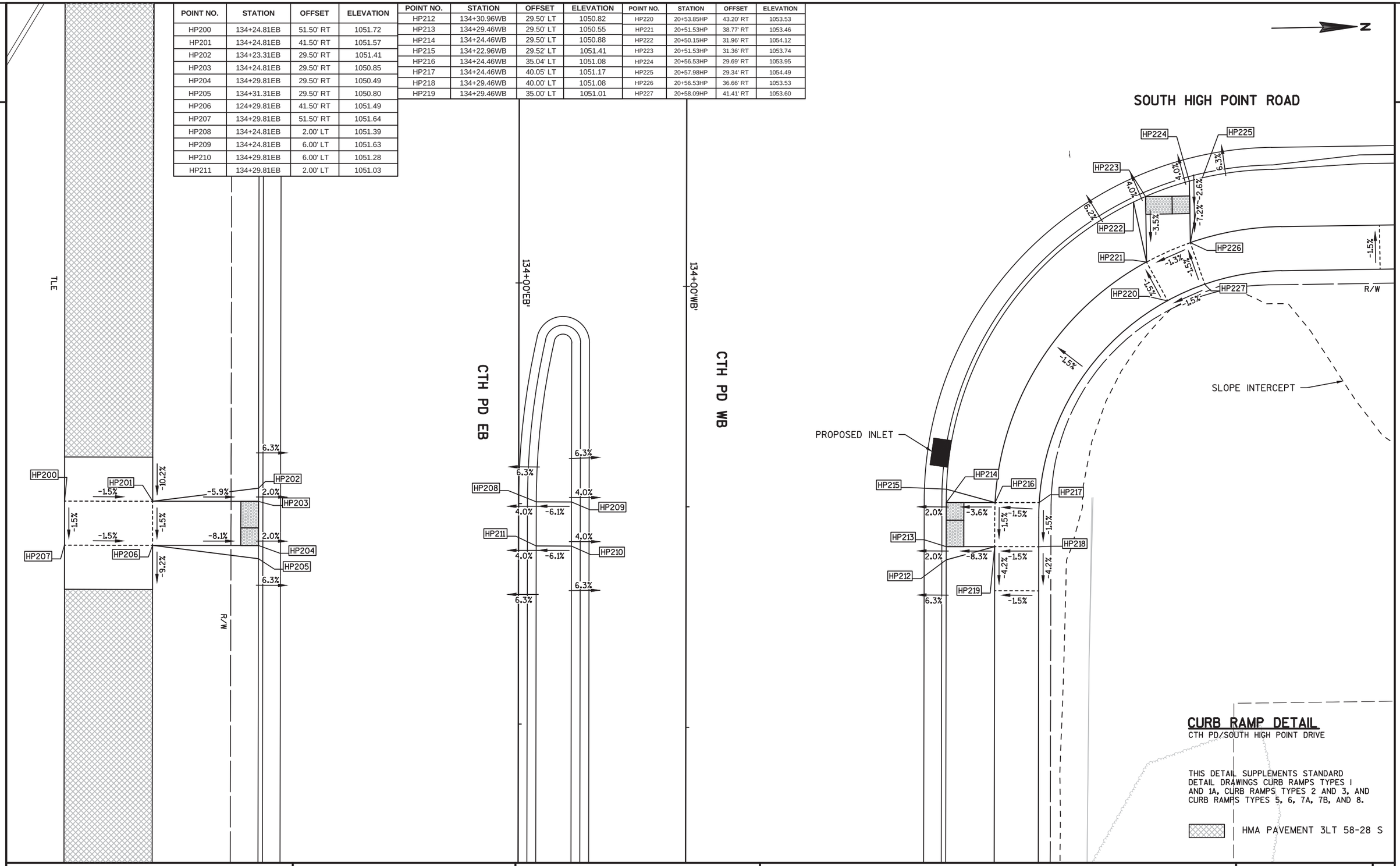
POINT NO.	STATION	OFFSET	ELEVATION
HP100	133+00.24EB	51.50' RT	1060.76
HP101	133+00.24EB	41.50' RT	1060.61
HP102	133+01.54EB	29.50' RT	1059.94
HP103	133+00.24EB	29.50' RT	1060.07
HP104	132+92.04EB	29.50' RT	1060.63
HP105	132+90.54EB	29.50' RT	1060.71
HP106	132+92.24EB	41.50' RT	1060.74
HP107	132+92.39EB	51.50' RT	1060.88
HP108	132+91.32EB	13.00' LT	1060.93
HP109	132+91.36EB	17.00' LT	1060.76
HP110	132+99.26EB	16.71' LT	1060.21
HP111	132+99.32EB	13.00' LT	1060.40

POINT NO.	STATION	OFFSET	ELEVATION
HP112	20+36.34HP	68.38' LT	1060.00
HP113	20+35.60HP	69.69' LT	1060.58
HP114	20+44.78HP	68.38' LT	1059.85
HP115	20+51.50HP	68.38' LT	31059.32
HP116	20+61.59HP	68.38' LT	1059.17
HP117	20+61.58HP	60.38' LT	1059.05
HP118	20+56.55HP	60.38' LT	1059.13
HP119	20+57.98HP	51.68' LT	1058.91
HP120	20+56.55HP	52.13' LT	1058.62
HP121	20+51.55HP	54.22' LT	1058.86
HP122	20+50.23HP	54.93' LT	1059.37
HP123	20+51.55HP	60.38' LT	1059.20
HP124	20+43.89HP	59.38' LT	1059.66
HP125	20+42.78HP	60.38' LT	1059.25
HP126	20+51.54HP	7.67' LT	1055.65
HP127	20+56.54HP	7.67' LT	1055.55
HP128	20+56.54HP	3.11' LT	1055.08
HP129	20+51.54HP	3.73' LT	1055.19

POINT NO.	STATION	OFFSET	ELEVATION
HP200	134+24.81EB	51.50' RT	1051.72
HP201	134+24.81EB	41.50' RT	1051.57
HP202	134+23.31EB	29.50' RT	1051.41
HP203	134+24.81EB	29.50' RT	1050.85
HP204	134+29.81EB	29.50' RT	1050.49
HP205	134+31.31EB	29.50' RT	1050.80
HP206	124+29.81EB	41.50' RT	1051.49
HP207	134+29.81EB	51.50' RT	1051.64
HP208	134+24.81EB	2.00' LT	1051.39
HP209	134+24.81EB	6.00' LT	1051.63
HP210	134+29.81EB	6.00' LT	1051.28
HP211	134+29.81EB	2.00' LT	1051.03

POINT NO.	STATION	OFFSET	ELEVATION
HP212	134+30.96WB	29.50' LT	1050.82
HP213	134+29.46WB	29.50' LT	1050.55
HP214	134+24.46WB	29.50' LT	1050.88
HP215	134+22.96WB	29.52' LT	1051.41
HP216	134+24.46WB	35.04' LT	1051.08
HP217	134+24.46WB	40.05' LT	1051.17
HP218	134+29.46WB	40.00' LT	1051.08
HP219	134+29.46WB	35.00' LT	1051.01

POINT NO.	STATION	OFFSET	ELEVATION
HP220	20+53.85HP	43.20' RT	1053.53
HP221	20+51.53HP	38.77' RT	1053.46
HP222	20+50.15HP	31.96' RT	1054.12
HP223	20+51.53HP	31.36' RT	1053.74
HP224	20+56.53HP	29.69' RT	1053.95
HP225	20+57.98HP	29.34' RT	1054.49
HP226	20+56.53HP	36.66' RT	1053.53
HP227	20+58.09HP	41.41' RT	1053.60



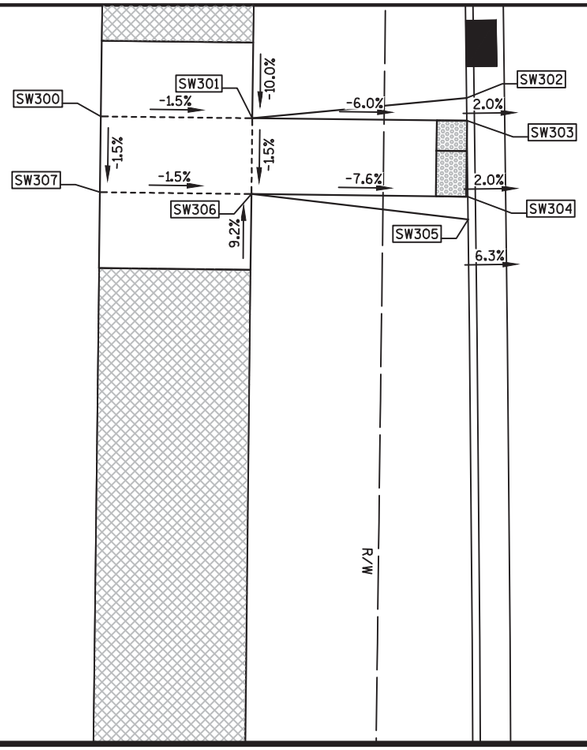
CURB RAMP DETAIL

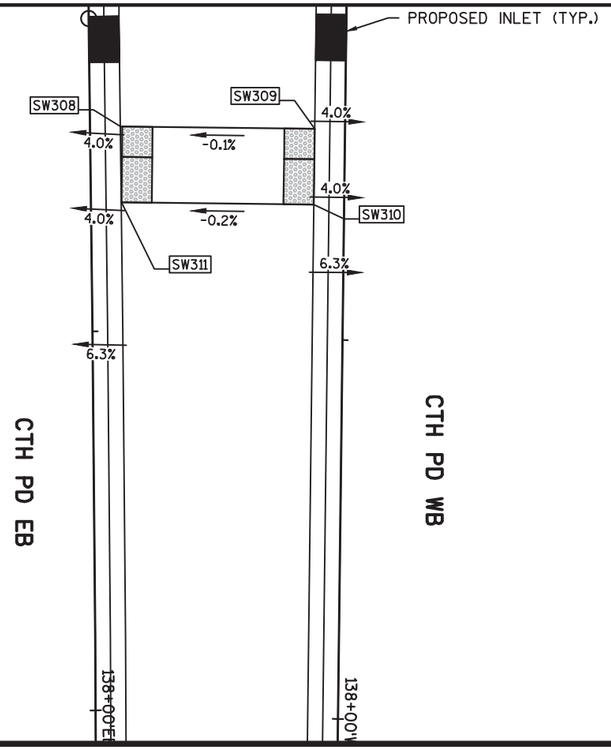
CTH PD/SOUTH HIGH POINT DRIVE

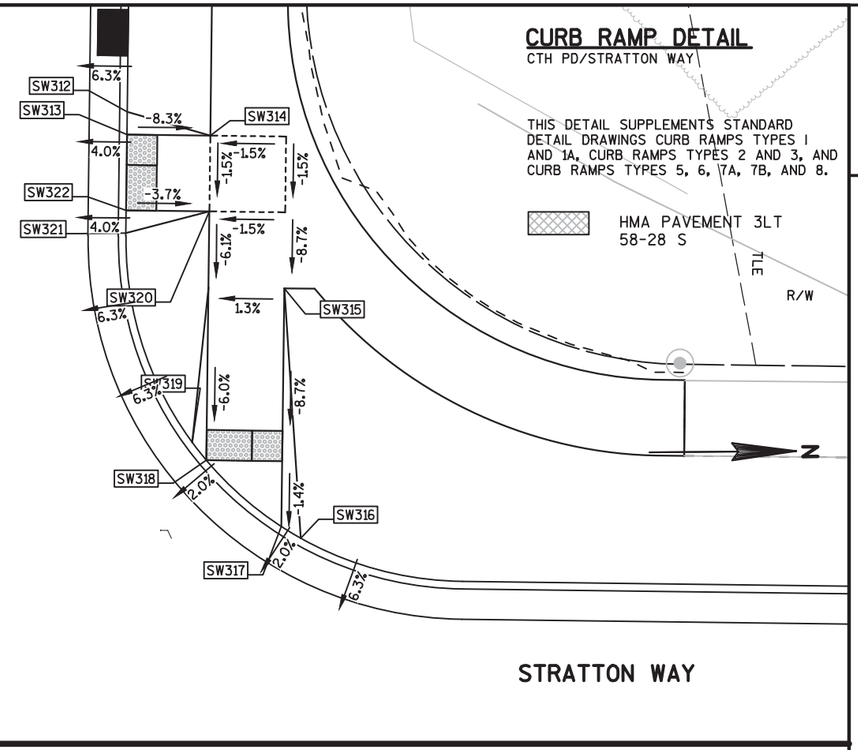
THIS DETAIL SUPPLEMENTS STANDARD DETAIL DRAWINGS CURB RAMPS TYPES I AND 1A, CURB RAMPS TYPES 2 AND 3, AND CURB RAMPS TYPES 5, 6, 7A, 7B, AND 8.

HMA PAVEMENT 3LT 58-28 S

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CONSTRUCTION DETAILS: CURB RAMP	SHEET 54	E







CURB RAMP DETAIL

CTH PD/STRATTON WAY

THIS DETAIL SUPPLEMENTS STANDARD DETAIL DRAWINGS CURB RAMPS TYPES 1 AND 1A, CURB RAMPS TYPES 2 AND 3, AND CURB RAMPS TYPES 5, 6, 7A, 7B, AND 8.

HMA PAVEMENT 3LT
58-28 S

POINT NO.	STATION	OFFSET	ELEVATION
SW300	137+60.12EB	53.66' RT	1028.32
SW301	137+60.37EB	43.67' RT	128.17
SW302	137+59.22EB	29.50' RT	1027.84
SW303	137+60.73EB	29.50' RT	1027.34
SW304	137+65.75EB	29.50' RT	1026.99
SW305	137+67.26EB	29.50' RT	1027.28
SW306	137+65.41EB	43.79' RT	1028.10
SW307	137+65.17EB	53.79' RT	1028.25

POINT NO.	STATION	OFFSET	ELEVATION
SW315	30+39.98SW	37.68' LT	1026.30
SW316	30+41.27SW	21.21' LT	1025.59
SW317	30+39.99SW	21.99' LT	1025.23
SW318	30+34.98SW	26.28' LT	1025.67
SW319	30+34.03SW	27.43' LT	1026.22

POINT NO.	STATION	OFFSET	ELEVATION
SW308	137+61.10WB	14.82' RT	1027.84
SW309	137+61.10WB	2.00' RT	1027.80
SW310	137+66.10WB	2.00' RT	1027.45
SW311	137+66.10WB	14.82' RT	1027.47
SW312	137+59.60WB	29.50' LT	1027.85
SW313	137+61.10WB	29.50' LT	1027.21
SW314	137+61.10WB	35.00' LT	1026.75
SW320	137+66.10WB	35.00' LT	1026.58
SW321	137+67.60WB	29.50' LT	1027.24
SW322	137+66.10WB	29.50' LT	1026.88

2

POINT NO.	STATION	OFFSET	ELEVATION
SW323	138+50.96EB	55.22' RT	1022.04
SW324	138+51.06EB	45.23' RT	1021.89
SW325	138+49.71EB	29.50' RT	1021.56
SW326	138+51.21EB	29.50' RT	1021.00
SW327	138+56.24EB	29.50' RT	1020.67
SW328	138+57.75EB	29.50' RT	1020.95
SW329	138+56.10EB	45.27' RT	1021.82
SW330	138+56.01EB	55.27' RT	1020.97

POINT NO.	STATION	OFFSET	ELEVATION
SW331	138+51.12WB	13.27' RT	1021.52
SW332	138+51.12WB	2.00' RT	1021.54
SW333	138+56.12WB	2.00' RT	1021.19
SW334	138+56.12WB	13.27' RT	1021.17
SW335	138+57.62WB	29.50' LT	1020.96
SW336	138+56.12WB	29.50' LT	1020.64
SW337	138+51.12WB	29.50' LT	1020.57
SW338	138+49.80WB	29.50' LT	1021.54
SW345	138+51.12WB	35.00' LT	1021.16
SW347	138+56.12WB	35.00' LT	1021.09

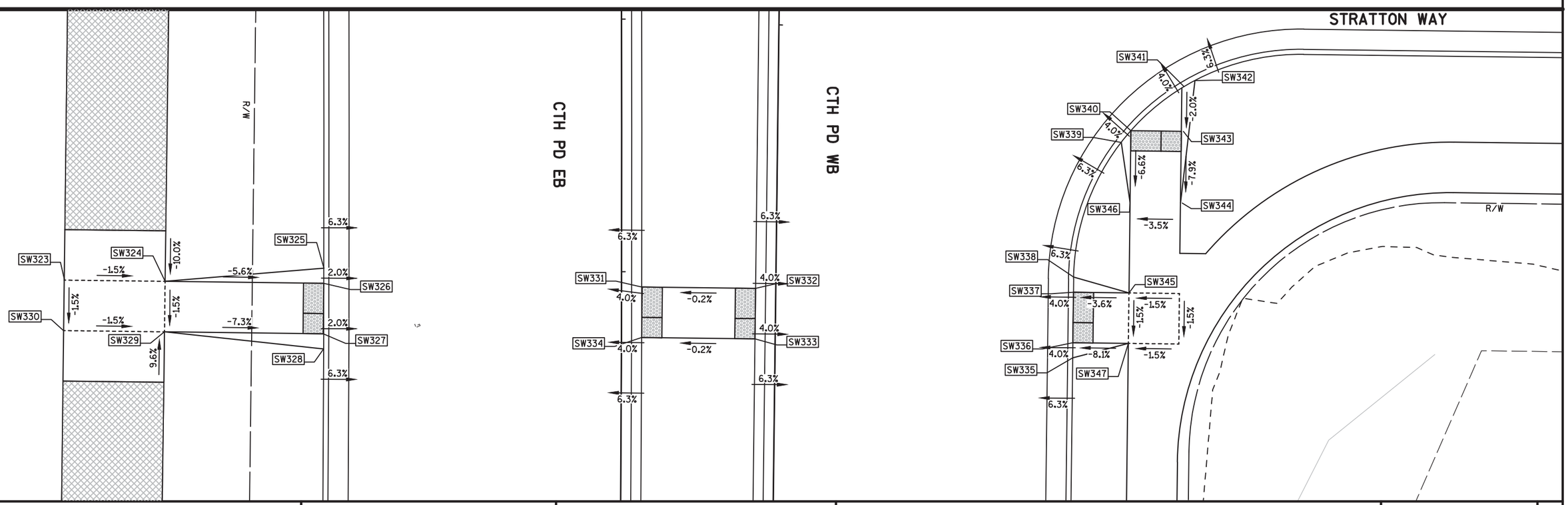
POINT NO.	STATION	OFFSET	ELEVATION
SW339	30+34.07SW	27.44' RT	1022.63
SW340	30+35.02SW	26.27' RT	1022.27
SW341	30+40.01SW	21.97' RT	1022.69
SW342	30+41.01SW	21.22' RT	1023.13
SW343	30+40.02SW	26.27' RT	1022.51
SW344	30+40.02SW	33.37' RT	1021.94
SW346	30+35.02SW	33.37' RT	1021.76

CURB RAMP DETAIL

CTH PD/STRATTON WAY

THIS DETAIL SUPPLEMENTS STANDARD DETAIL DRAWINGS CURB RAMPS TYPES 1 AND 1A, CURB RAMPS TYPES 2 AND 3, AND CURB RAMPS TYPES 5, 6, 7A, 7B, AND 8.

HMA PAVEMENT 3LT
58-28 S



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	CONSTRUCTION DETAILS: CURB RAMP	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CONSTRUCTION DETAILS\021001-CD-CURB RAMPS.DWG
LAYOUT NAME - SHEET - (10)

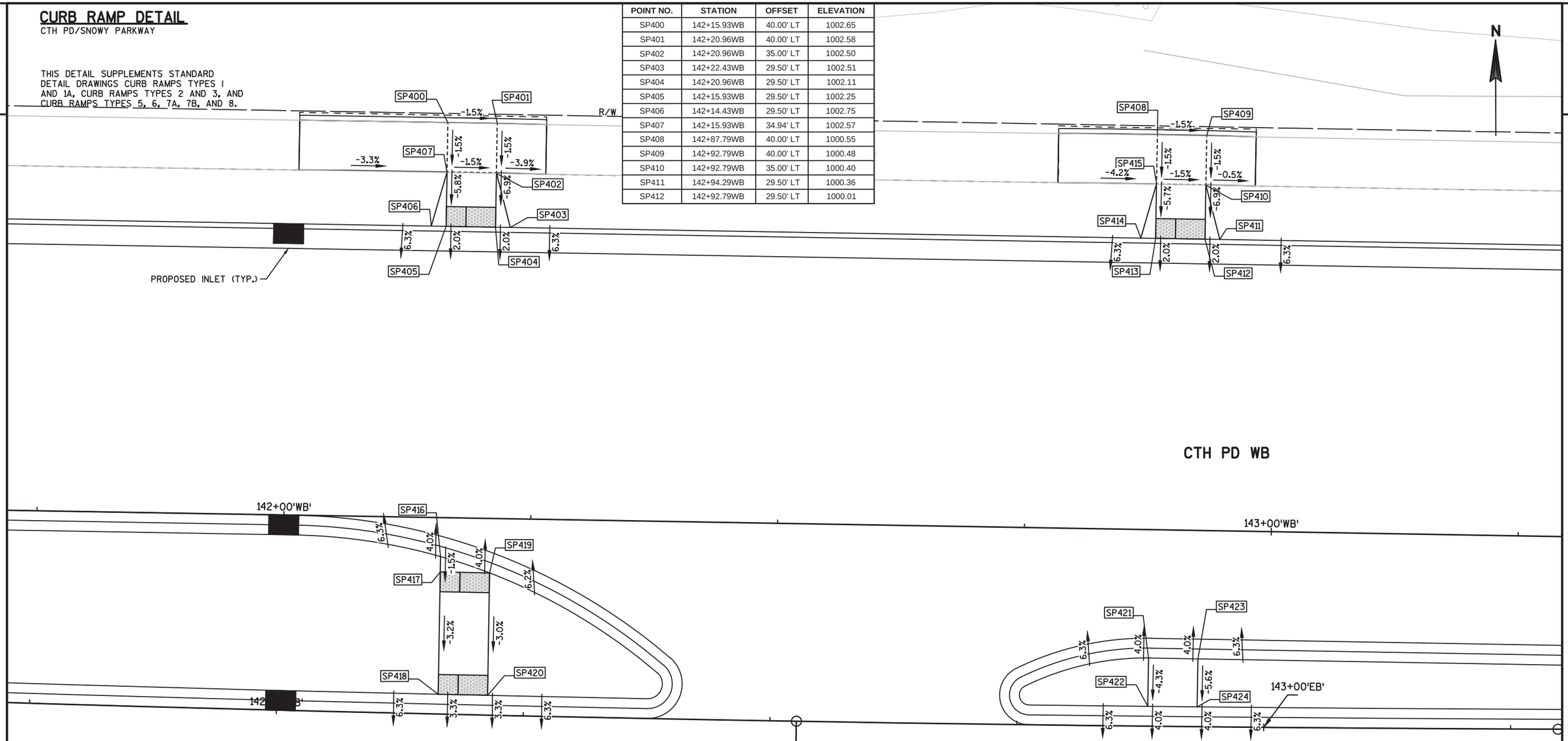
PLOT DATE : 10/26/2016 9:24 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

CURB RAMP DETAIL

CTH PD/SNOWY PARKWAY

THIS DETAIL SUPPLEMENTS STANDARD DETAIL DRAWINGS CURB RAMPS TYPES 1 AND 1A, CURB RAMPS TYPES 2 AND 3, AND CURB RAMPS TYPES 5, 6, 7A, 7B, AND 8.

POINT NO.	STATION	OFFSET	ELEVATION
SP400	142+15.93WB	40.00' LT	1002.65
SP401	142+20.96WB	40.00' LT	1002.58
SP402	142+20.96WB	35.00' LT	1002.50
SP403	142+22.43WB	29.50' LT	1002.51
SP404	142+20.96WB	29.50' LT	1002.11
SP405	142+15.93WB	29.50' LT	1002.25
SP406	142+14.43WB	29.50' LT	1002.75
SP407	142+15.93WB	34.94' LT	1002.57
SP408	142+87.79WB	40.00' LT	1000.55
SP409	142+92.79WB	40.00' LT	1000.48
SP410	142+92.79WB	35.00' LT	1000.40
SP411	142+94.29WB	29.50' LT	1000.36
SP412	142+92.79WB	29.50' LT	1000.01



POINT NO.	STATION	OFFSET	ELEVATION
SP413	142+87.79WB	29.50' LT	1000.15
SP414	142+86.29WB	29.50' LT	1000.44
SP415	142+87.79WB	35.00' LT	1000.47
SP416	142+15.93WB	3.94' RT	1002.78
SP417	142+15.93WB	5.51' RT	1002.76
SP418	142+15.93WB	17.65' RT	1002.39
SP419	142+20.93WB	5.51' RT	1002.60
SP420	142+20.93WB	17.93' RT	1002.25
SP421	142+87.79WB	13.00' RT	1000.71
SP422	142+87.79WB	17.89' RT	1000.50
SP423	142+92.79WB	13.00' RT	1000.65
SP424	142+92.79WB	17.86' RT	1000.37

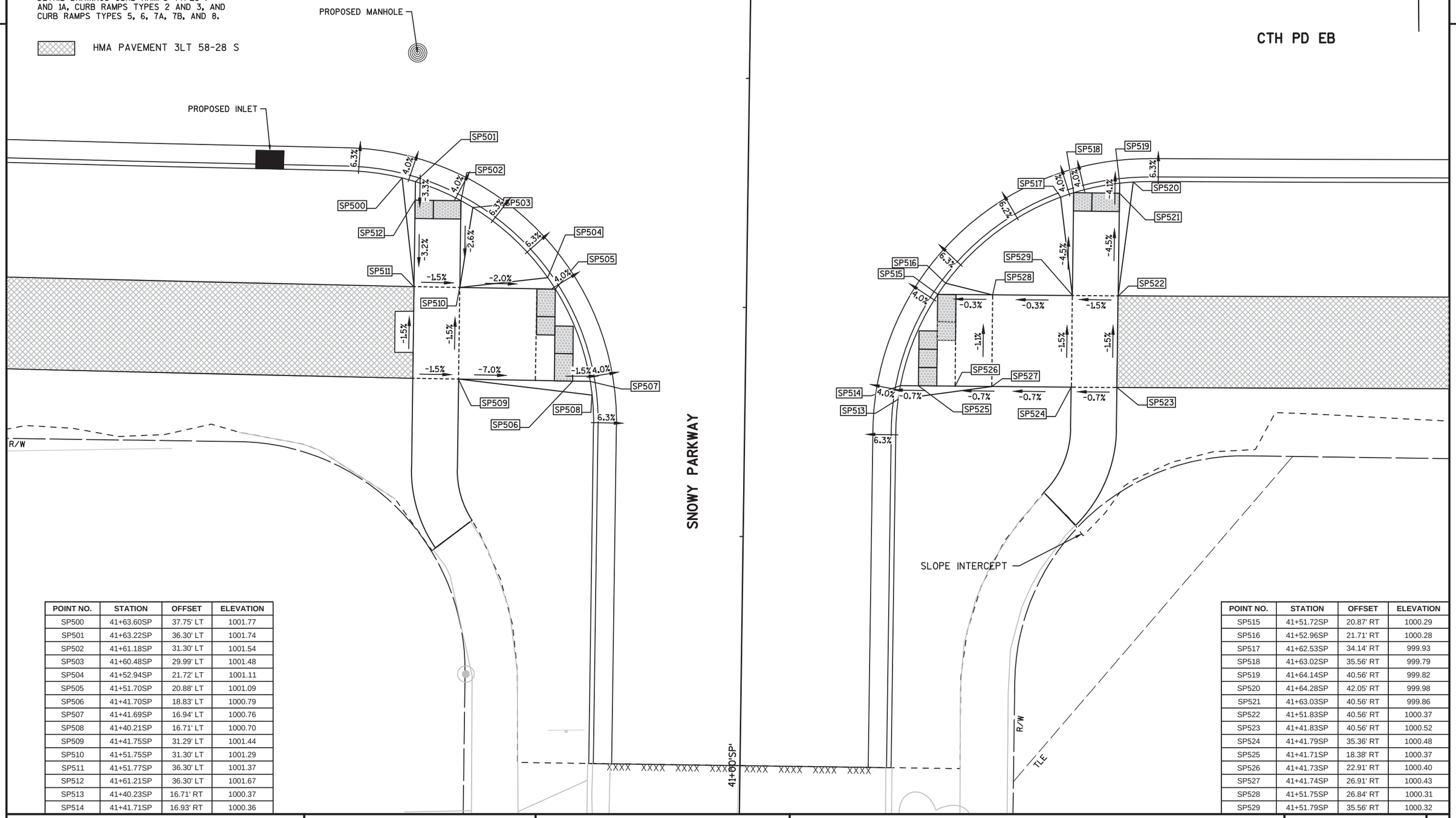
PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	CONSTRUCTION DETAILS: CURB RAMP	SHEET 57	E

CURB RAMP DETAIL

CTH PD/SNOWY PARKWAY

THIS DETAIL SUPPLEMENTS STANDARD DETAIL DRAWINGS CURB RAMPS TYPES 1 AND 1A, CURB RAMPS TYPES 2 AND 3, AND CURB RAMPS TYPES 5, 6, 7A, 7B, AND 8.

HMA PAVEMENT 3LT 58-28 S



POINT NO.	STATION	OFFSET	ELEVATION
SP500	41+63.60SP	37.75' LT	1001.77
SP501	41+63.22SP	36.30' LT	1001.74
SP502	41+61.18SP	31.30' LT	1001.54
SP503	41+60.48SP	29.99' LT	1001.48
SP504	41+52.94SP	21.72' LT	1001.11
SP505	41+51.70SP	20.88' LT	1001.09
SP506	41+41.70SP	18.83' LT	1000.79
SP507	41+41.69SP	16.94' LT	1000.76
SP508	41+40.21SP	16.71' LT	1000.70
SP509	41+41.75SP	31.29' LT	1001.44
SP510	41+51.75SP	31.30' LT	1001.29
SP511	41+51.77SP	36.30' LT	1001.37
SP512	41+61.21SP	36.30' LT	1001.67
SP513	41+40.23SP	16.71' RT	1000.37
SP514	41+41.71SP	16.93' RT	1000.36

POINT NO.	STATION	OFFSET	ELEVATION
SP515	41+51.72SP	20.87' RT	1000.29
SP516	41+52.96SP	21.71' RT	1000.28
SP517	41+62.53SP	34.14' RT	999.93
SP518	41+63.02SP	35.56' RT	999.79
SP519	41+64.14SP	40.56' RT	999.82
SP520	41+64.28SP	42.05' RT	999.98
SP521	41+63.03SP	40.56' RT	999.86
SP522	41+51.83SP	40.56' RT	1000.37
SP523	41+41.83SP	40.56' RT	1000.52
SP524	41+41.79SP	35.36' RT	1000.48
SP525	41+41.71SP	18.38' RT	1000.37
SP526	41+41.73SP	22.91' RT	1000.40
SP527	41+41.74SP	26.91' RT	1000.43
SP528	41+51.75SP	26.84' RT	1000.31
SP529	41+51.79SP	35.56' RT	1000.32

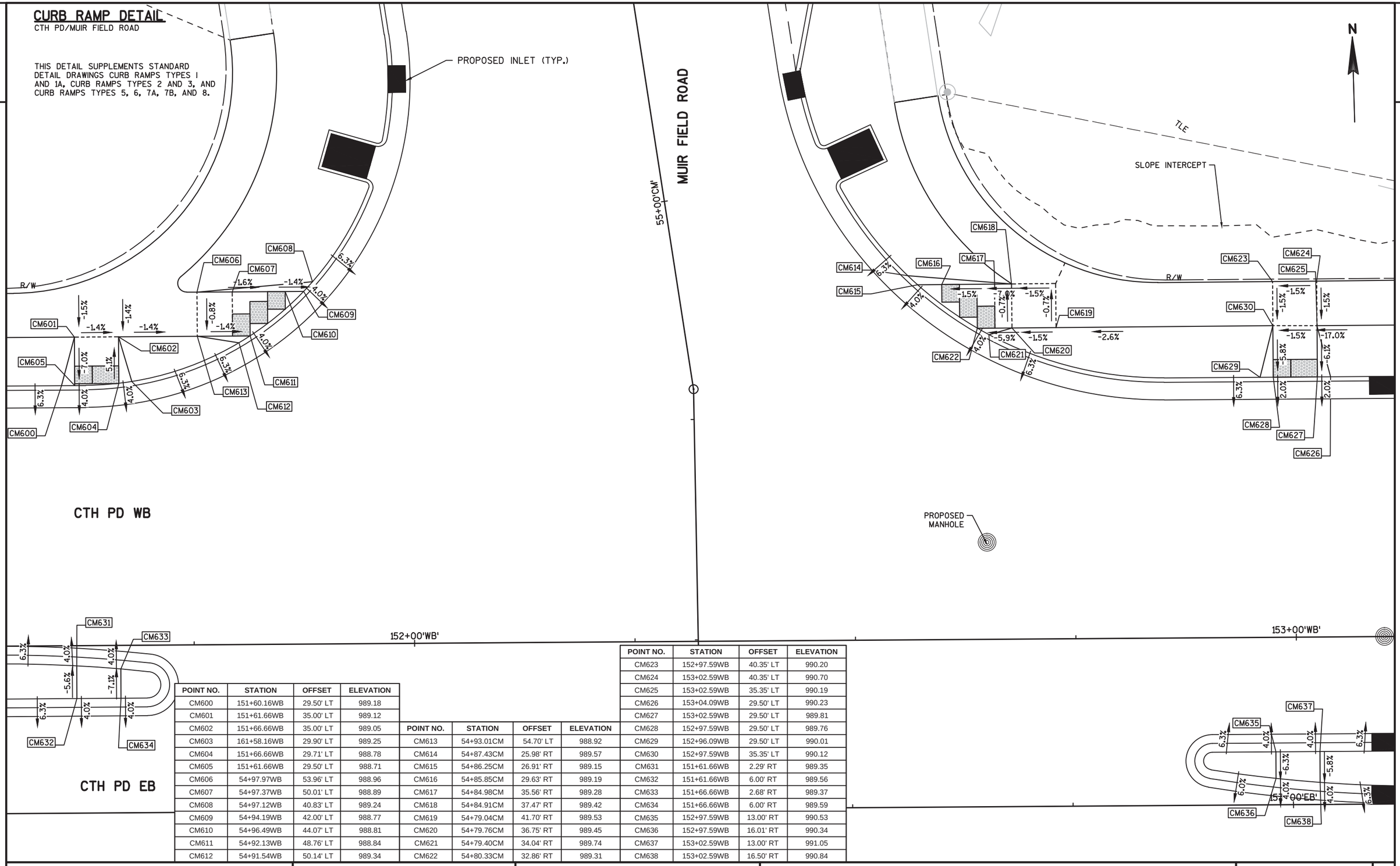
PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	CONSTRUCTION DETAILS: CURB RAMP	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CONSTRUCTION DETAILS\021002-CD-CURB RAMPS.DWG
LAYOUT NAME - SHEET - (14)
PLOT DATE : 10/26/2016 9:25 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

CURB RAMP DETAIL

CTH PD/MUIR FIELD ROAD

THIS DETAIL SUPPLEMENTS STANDARD DETAIL DRAWINGS CURB RAMPS TYPES 1 AND 1A, CURB RAMPS TYPES 2 AND 3, AND CURB RAMPS TYPES 5, 6, 7A, 7B, AND 8.



POINT NO.	STATION	OFFSET	ELEVATION
CM600	151+60.16WB	29.50' LT	989.18
CM601	151+61.66WB	35.00' LT	989.12
CM602	151+66.66WB	35.00' LT	989.05
CM603	161+58.16WB	29.90' LT	989.25
CM604	151+66.66WB	29.71' LT	988.78
CM605	151+61.66WB	29.50' LT	988.71
CM606	54+97.97WB	53.96' LT	988.96
CM607	54+97.37WB	50.01' LT	988.89
CM608	54+97.12WB	40.83' LT	989.24
CM609	54+94.19WB	42.00' LT	988.77
CM610	54+96.49WB	44.07' LT	988.81
CM611	54+92.13WB	48.76' LT	988.84
CM612	54+91.54WB	50.14' LT	989.34

POINT NO.	STATION	OFFSET	ELEVATION
CM613	54+93.01CM	54.70' LT	988.92
CM614	54+87.43CM	25.98' RT	989.57
CM615	54+86.25CM	26.91' RT	989.15
CM616	54+85.85CM	29.63' RT	989.19
CM617	54+84.98CM	35.56' RT	989.28
CM618	54+84.91CM	37.47' RT	989.42
CM619	54+79.04CM	41.70' RT	989.53
CM620	54+79.76CM	36.75' RT	989.45
CM621	54+79.40CM	34.04' RT	989.74
CM622	54+80.33CM	32.86' RT	989.31

POINT NO.	STATION	OFFSET	ELEVATION
CM623	152+97.59WB	40.35' LT	990.20
CM624	153+02.59WB	40.35' LT	990.70
CM625	153+02.59WB	35.35' LT	990.19
CM626	153+04.09WB	29.50' LT	990.23
CM627	153+02.59WB	29.50' LT	989.81
CM628	152+97.59WB	29.50' LT	989.76
CM629	152+96.09WB	29.50' LT	990.01
CM630	152+97.59WB	35.35' LT	990.12
CM631	151+61.66WB	2.29' RT	989.35
CM632	151+61.66WB	6.00' RT	989.56
CM633	151+66.66WB	2.68' RT	989.37
CM634	151+66.66WB	6.00' RT	989.59
CM635	152+97.59WB	13.00' RT	990.53
CM636	152+97.59WB	16.01' RT	990.34
CM637	153+02.59WB	13.00' RT	991.05
CM638	153+02.59WB	16.50' RT	990.84

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CONSTRUCTION DETAILS: CURB RAMP	SHEET 59	E

2

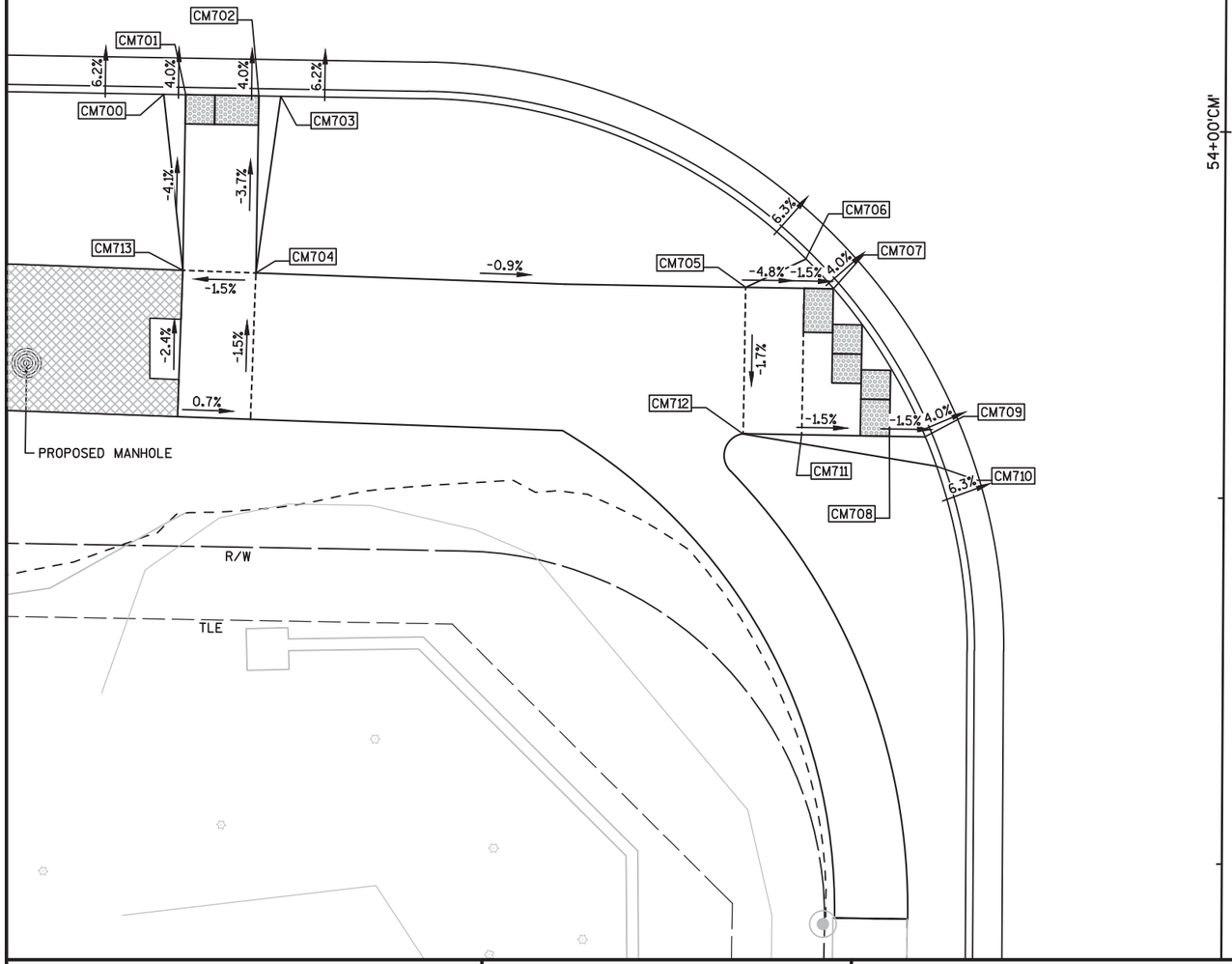
CURB RAMP DETAIL

CTH PD/COUNTRY GROVE DRIVE

THIS DETAIL SUPPLEMENTS STANDARD DETAIL DRAWINGS CURB RAMPS TYPES 1 AND 1A, CURB RAMPS TYPES 2 AND 3, AND CURB RAMPS TYPES 5, 6, 7A, 7B, AND 8.

HMA PAVEMENT 3LT 58-28 S

POINT NO.	STATION	OFFSET	ELEVATION	POINT NO.	STATION	OFFSET	ELEVATION	POINT NO.	STATION	OFFSET	ELEVATION
CM700	151+60.61EB	29.50' RT	989.22	CM714	53+76.49CM	28.70' RT	989.32	CM713	151+62.11EB	41.59' RT	989.18
CM701	151+62.11EB	29.50' RT	988.77	CM715	53+78.49CM	29.02' RT	988.91	CM719	152+96.54EB	29.50' RT	990.19
CM702	151+67.11EB	29.50' RT	988.80	CM716	53+78.49CM	31.01' RT	988.94	CM720	152+98.04EB	29.50' RT	989.73
CM703	151+68.61EB	29.50' RT	988.87	CM717	53+88.44CM	33.13' RT	989.16	CM721	153+03.04EB	29.50' RT	989.78
CM704	151+67.11EB	41.59' RT	989.25	CM718	53+90.42CM	34.59' RT	989.58	CM722	153+04.54EB	29.50' RT	990.30
CM705	53+89.22CM	32.92' LT	988.95	CM727	53+78.49CM	44.01' RT	989.35	CM723	153+03.04EB	42.00' RT	990.31
CM706	53+91.17CM	28.66' LT	989.23	CM728	53+78.49CM	39.01' RT	989.28	CM724	153+03.04EB	42.00' RT	990.46
CM707	53+89.15CM	26.75' LT	988.73	CM729	53+78.49CM	35.01' RT	989.00	CM725	152+98.04EB	51.00' RT	990.38
CM708	53+79.11CM	22.87' LT	988.61	CM730	53+88.44CM	39.13' RT	989.13	CM726	152+98.04EB	42.00' RT	990.32
CM709	53+79.08CM	20.45' LT	988.57	CM731	53+88.44CM	44.13' RT	989.20				
CM710	53+77.07CM	19.67' LT	988.99								
CM711	53+79.16CM	28.87' LT	988.70								
CM712	53+79.21CM	32.87' LT	988.78								

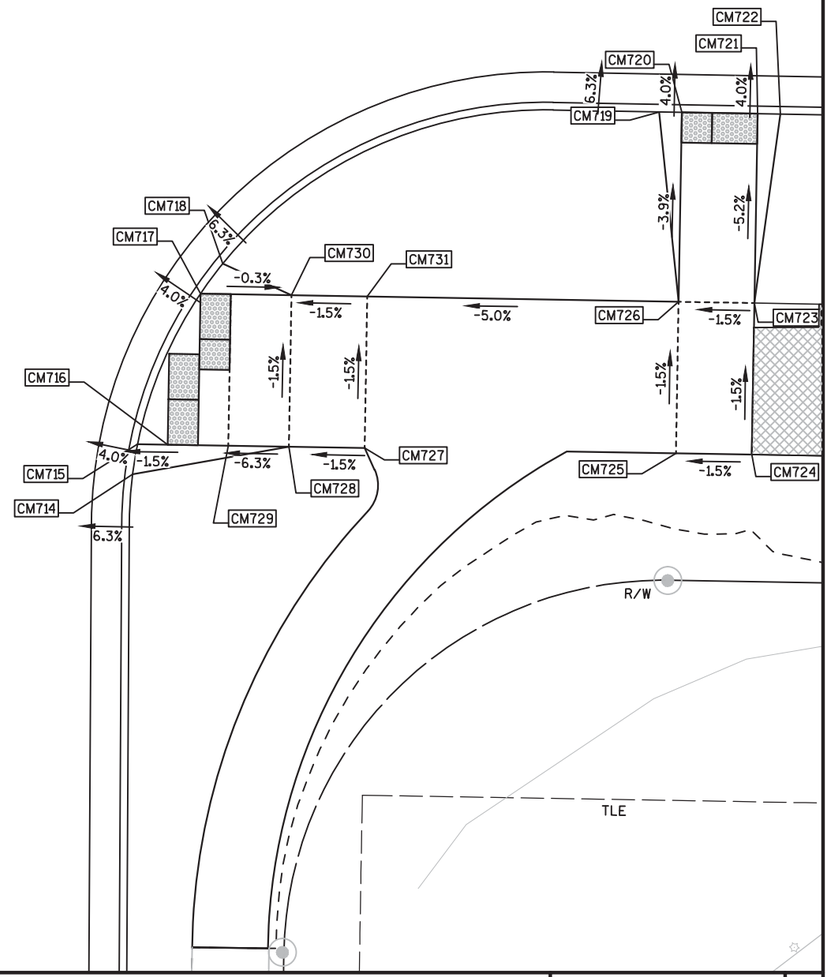


54+00 CM

COUNTRY GROVE DRIVE

N

CTH PD EB



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CONSTRUCTION DETAILS: CURB RAMP	SHEET 60	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CONSTRUCTION DETAILS\021002-CD-CURB RAMPS.DWG
LAYOUT NAME - SHEET - (12)

PLOT DATE : 10/26/2016 9:26 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:10 FT

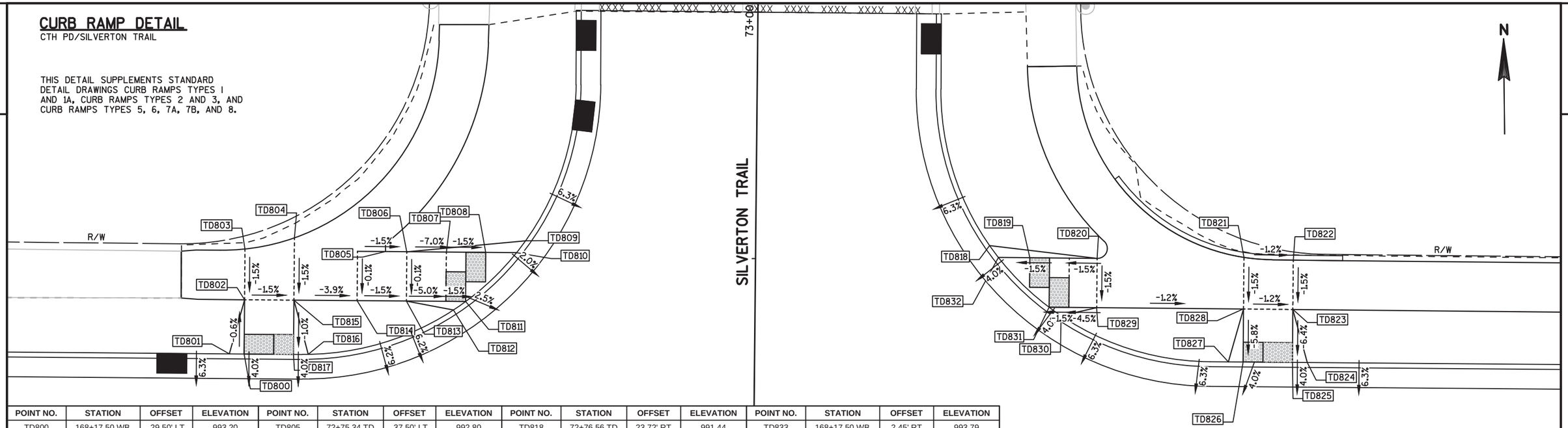
WISDOT/CADDS SHEET 42

2

CURB RAMP DETAIL

CTH PD/SILVERTON TRAIL

THIS DETAIL SUPPLEMENTS STANDARD DETAIL DRAWINGS CURB RAMPS TYPES 1 AND 1A, CURB RAMPS TYPES 2 AND 3, AND CURB RAMPS TYPES 5, 6, 7A, 7B, AND 8.



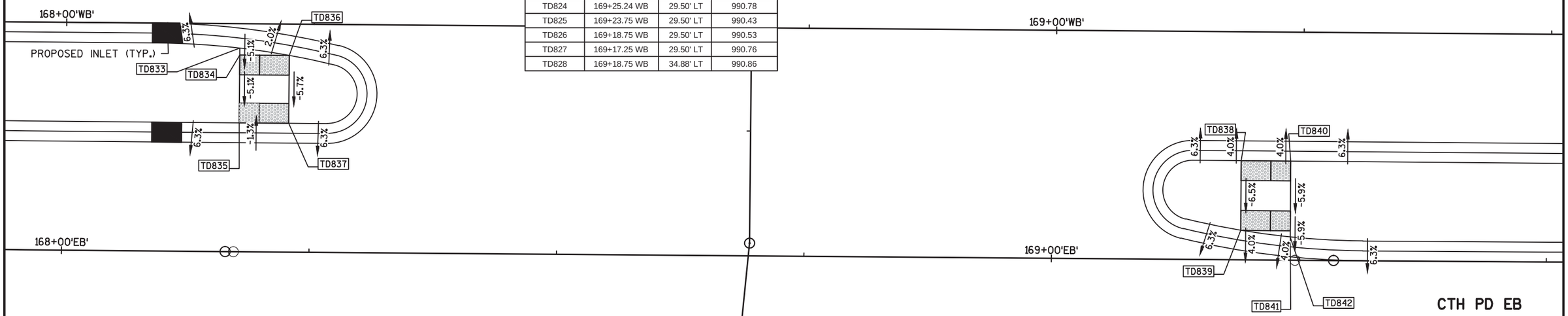
POINT NO.	STATION	OFFSET	ELEVATION
TD800	168+17.50 WB	29.50' LT	993.20
TD801	168+16.00 WB	29.50' LT	993.70
TD802	168+17.50 WB	35.00' LT	993.16
TD803	168+17.50 WB	40.14' LT	993.24
TD804	168+22.50 WB	41.32' LT	993.14
TD815	168+22.50 WB	35.00' LT	993.09
TD816	168+24.00 WB	29.50' LT	993.43
TD817	168+22.50 WB	29.50' LT	993.04

POINT NO.	STATION	OFFSET	ELEVATION
TD805	72+75.34 TD	37.50' LT	992.80
TD806	72+75.35 TD	35.34' LT	992.77
TD807	72+75.35 TD	31.33' LT	992.49
TD808	72+75.35 TD	27.34' LT	992.43
TD809	72+76.57 TD	23.33' LT	992.78
TD810	72+75.37 TD	24.41' LT	992.38
TD811	72+70.66 TD	29.33' LT	992.53
TD812	72+69.49 TD	30.55' LT	992.99
TD813	72+70.35 TD	35.33' LT	992.76
TD814	72+70.34 TD	40.33' LT	992.84

POINT NO.	STATION	OFFSET	ELEVATION
TD818	72+76.56 TD	23.72' RT	991.44
TD819	72+75.36 TD	27.80' RT	991.02
TD820	72+75.36 TD	34.63' RT	991.12
TD829	72+70.36 TD	34.63' RT	991.04
TD830	72+68.85 TD	31.12' RT	991.17
TD831	72+70.66 TD	29.80' RT	990.89
TD832	72+75.36 TD	24.62' RT	991.00

POINT NO.	STATION	OFFSET	ELEVATION
TD833	168+17.50 WB	2.45' RT	993.79
TD834	168+17.50 WB	3.15' RT	993.75
TD835	168+17.50 WB	10.00' RT	993.40
TD836	168+22.50 WB	3.15' RT	993.64
TD837	168+22.50 WB	10.00' RT	993.24
TD838	169+18.75 WB	13.00' RT	990.97
TD839	169+18.75 WB	20.02' RT	990.51
TD840	169+23.75 WB	13.00' RT	990.92
TD841	169+23.75 WB	20.02' RT	990.51
TD842	169+23.75 WB	20.66' RT	990.47

POINT NO.	STATION	OFFSET	ELEVATION
TD821	169+18.75 WB	40.08' LT	990.94
TD822	169+23.75 WB	39.87' LT	990.99
TD823	169+23.75 WB	34.87' LT	990.79
TD824	169+25.24 WB	29.50' LT	990.78
TD825	169+23.75 WB	29.50' LT	990.43
TD826	169+18.75 WB	29.50' LT	990.53
TD827	169+17.25 WB	29.50' LT	990.76
TD828	169+18.75 WB	34.88' LT	990.86



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CONSTRUCTION DETAILS: CURB RAMP	SHEET 61	E

POINT NO.	STATION	OFFSET	ELEVATION
TD900	168+16.37 EB	29.94' RT	992.91
TD901	168+17.86 EB	29.95' RT	992.37
TD902	168+22.86 EB	31.21' RT	992.17
TD903	168+24.27 EB	31.72' RT	992.60
TD911	168+17.86 EB	38.66' RT	991.80
TD912	168+22.86 EB	38.66' RT	991.90
TD913	168+17.86 EB	31.21' RT	992.29
TD923	169+16.60 EB	29.49' RT	989.97
TD924	169+19.10 EB	29.49' RT	989.87
TD925	169+24.10 EB	29.49' RT	989.78
TD926	169+25.60 EB	29.49' RT	990.19
TD927	169+24.10 EB	38.61' RT	990.26
TD928	169+19.10 EB	38.61' RT	990.22

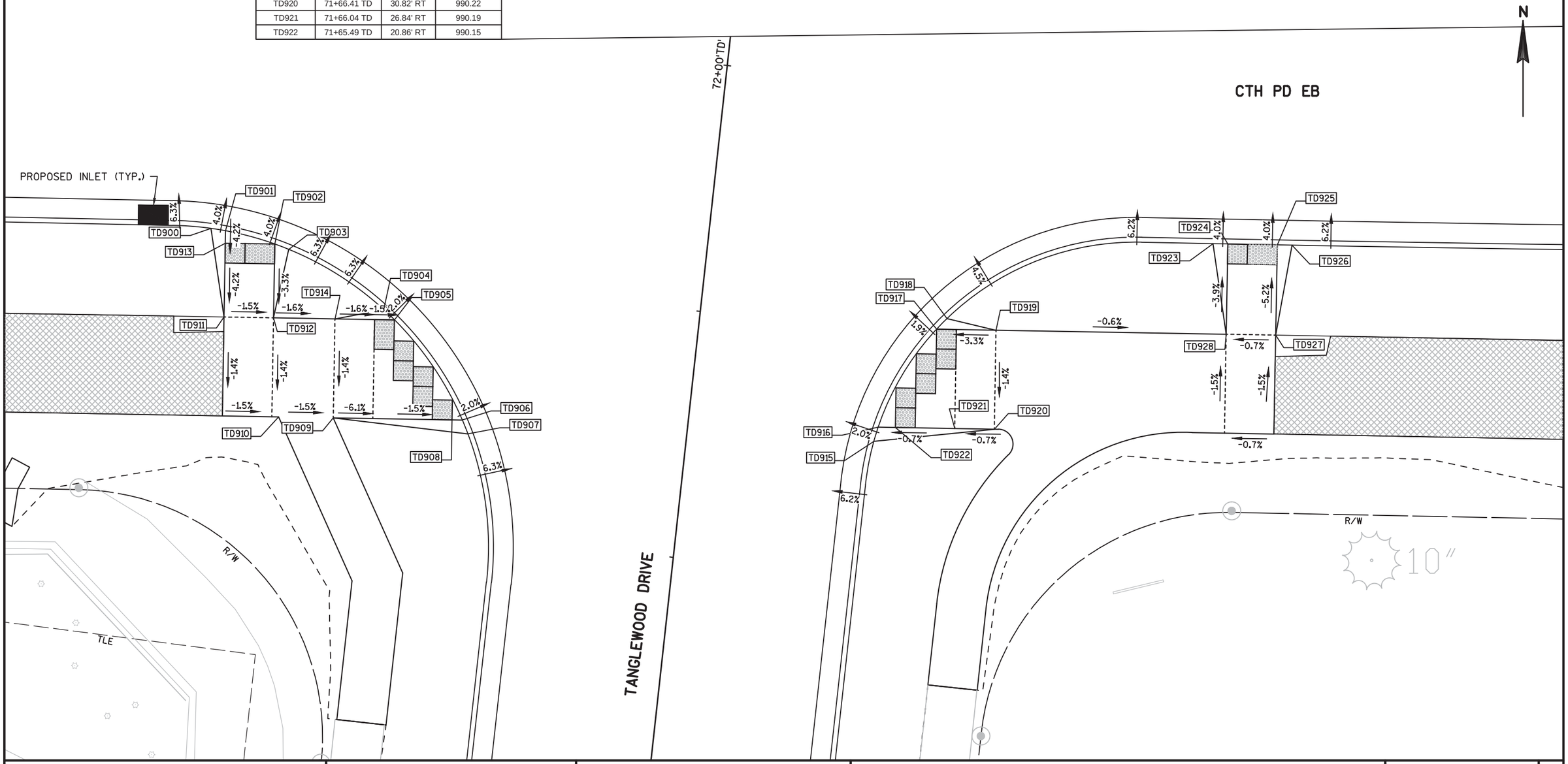
POINT NO.	STATION	OFFSET	ELEVATION
TD904	71+71.69 TD	31.81' LT	992.23
TD905	71+70.44 TD	30.77' LT	991.72
TD906	71+61.46 TD	22.72' LT	991.29
TD907	71+61.14 TD	22.00' LT	991.70
TD908	71+61.37 TD	23.73' LT	991.30
TD909	71+60.26 TD	35.68' LT	991.67
TD910	71+59.76 TD	41.18' LT	991.75
TD914	71+70.32 TD	36.60' LT	991.81
TD915	71+63.86 TD	18.86' RT	990.60
TD916	71+65.33 TD	19.14' RT	990.14
TD917	71+75.82 TD	23.92' RT	990.20
TD918	71+77.00 TD	24.85' RT	990.62
TD919	71+76.37 TD	29.90' RT	990.37
TD920	71+66.41 TD	30.82' RT	990.22
TD921	71+66.04 TD	26.84' RT	990.19
TD922	71+65.49 TD	20.86' RT	990.15

CURB RAMP DETAIL

CTH PD/TANGLEWOOD DRIVE

THIS DETAIL SUPPLEMENTS STANDARD DETAIL DRAWINGS CURB RAMPS TYPES 1 AND 1A, CURB RAMPS TYPES 2 AND 3, AND CURB RAMPS TYPES 5, 6, 7A, 7B, AND 8.

HMA PAVEMENT 3LT 58-28 S



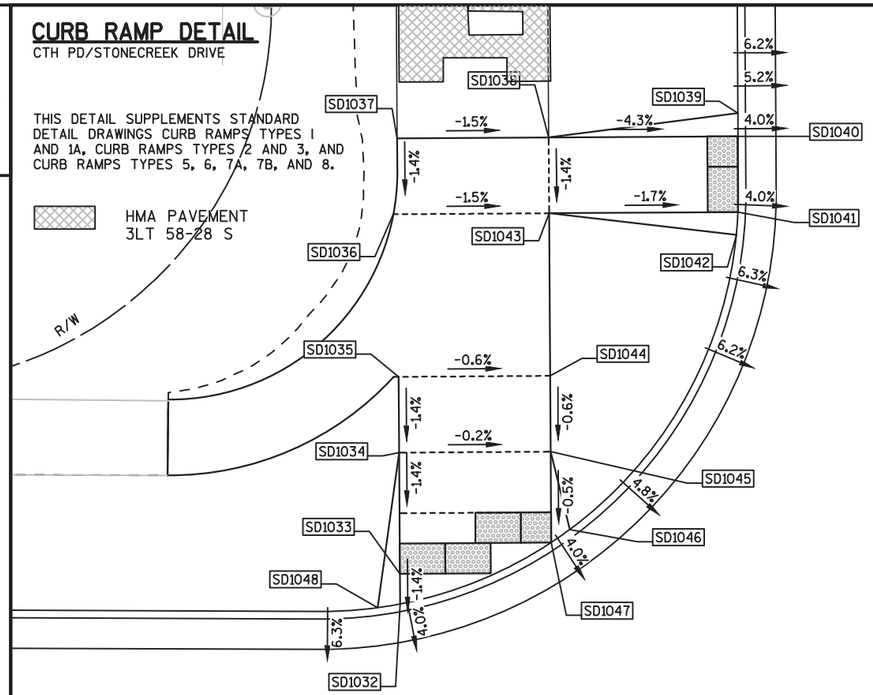
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CONSTRUCTION DETAILS: CURB RAMP	SHEET 62	E

CURB RAMP DETAIL

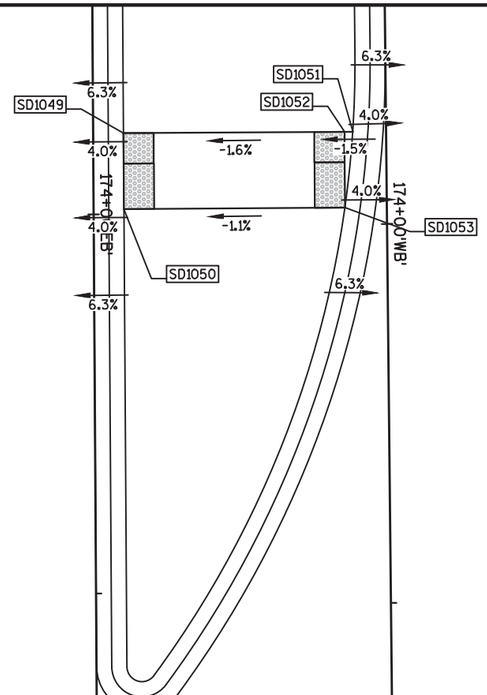
CTH PD/STONECREEK DRIVE

THIS DETAIL SUPPLEMENTS STANDARD DETAIL DRAWINGS CURB RAMPS TYPES 1 AND 1A, CURB RAMPS TYPES 2 AND 3, AND CURB RAMPS TYPES 5, 6, 7A, 7B, AND 8.

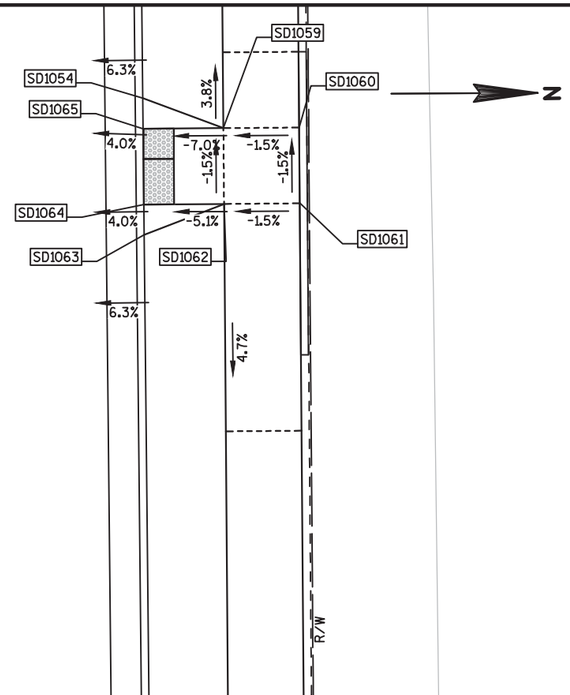
HMA PAVEMENT
3LT 58-28 S



CTH PD EB



CTH PD WB



POINT NO.	STATION	OFFSET	ELEVATION
SD1032	92+55.74 SD	19.08' LT	993.94
SD1033	92+55.72 SD	21.00' LT	993.96
SD1034	92+55.64 SD	29.00' LT	994.08
SD1035	92+55.58 SD	34.00' LT	994.15
SD1044	92+65.58 SD	34.11' LT	994.09
SD1045	92+65.63 SD	29.11' LT	994.06
SD1046	92+66.62 SD	23.97' LT	994.53
SD1047	92+65.70 SD	23.11' LT	994.03
SD1048	92+54.46 SD	18.76' LT	994.40

POINT NO.	STATION	OFFSET	ELEVATION
SD1036	173+99.65 EB	52.00' RT	994.31
SD1037	173+94.65 EB	52.00' RT	994.38
SD1038	173+94.65 EB	42.00' RT	994.35
SD1039	173+93.13 EB	29.50' RT	994.28
SD1040	173+94.65 EB	29.50' RT	993.83
SD1041	173+99.65 EB	29.50' RT	993.95
SD1042	174+01.15 EB	29.50' RT	994.46
SD1043	173+99.65 EB	42.00' RT	994.16

POINT NO.	STATION	OFFSET	ELEVATION
SD1049	173+93.90 WB	17.34' RT	994.43
SD1050	173+98.85 WB	17.34' RT	994.55
SD1051	173+93.90 WB	2.20' RT	994.65
SD1052	173+93.90 WB	2.75' RT	994.65
SD1053	173+98.85 WB	2.77' RT	994.71
SD1054	173+02.02 WB	29.50' LT	994.43
SD1059	173+94.02 WB	34.80' LT	994.33
SD1060	173+94.02 WB	39.80' LT	994.40
SD1061	173+99.02 WB	39.80' LT	994.48
SD1062	173+99.02 WB	34.79' LT	994.40
SD1063	174+01.02 WB	29.50' LT	994.44
SD1064	173+99.02 WB	29.50' LT	994.13
SD1065	173+94.02 WB	29.50' LT	994.03

CURB RAMP DETAIL

CTH PD/STONECREEK DRIVE

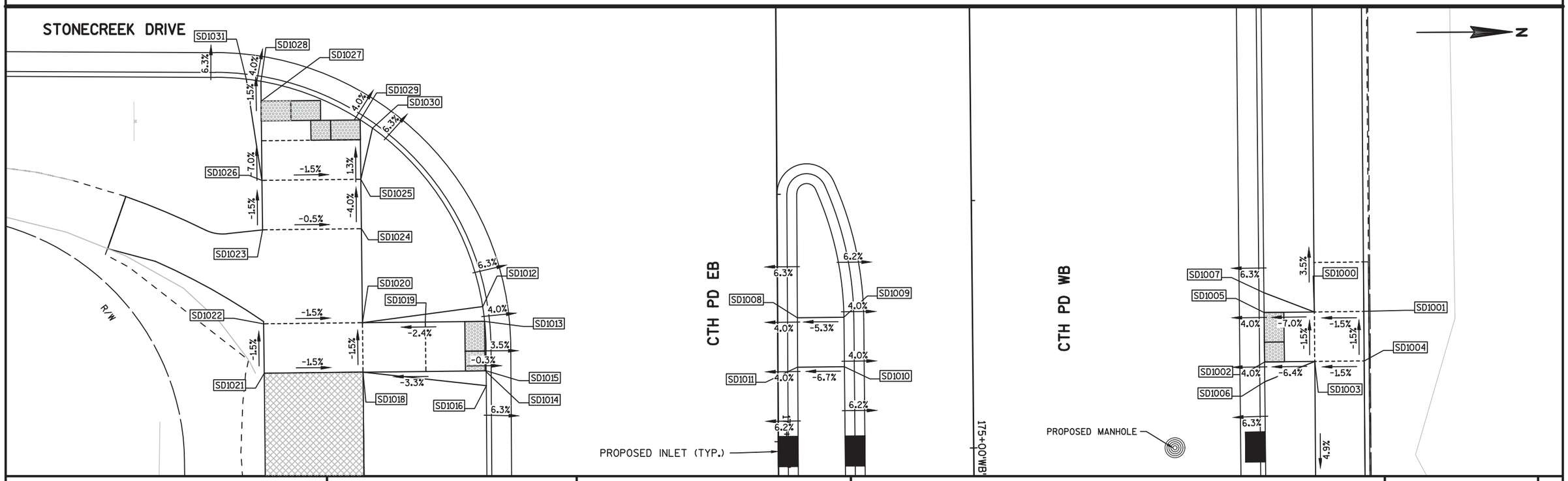
THIS DETAIL SUPPLEMENTS STANDARD DETAIL DRAWINGS CURB RAMPS TYPES 1 AND 1A, CURB RAMPS TYPES 2 AND 3, AND CURB RAMPS TYPES 5, 6, 7A, 7B, AND 8.

HMA PAVEMENT
3LT 58-28 S

POINT NO.	STATION	OFFSET	ELEVATION
SD1000	174+86.59 WB	34.59' LT	996.40
SD1001	174+86.59 WB	39.59' LT	996.48
SD1002	174+91.61 WB	29.50' LT	996.22
SD1003	174+91.61 WB	34.59' LT	996.47
SD1004	174+91.61 WB	39.59' LT	669.55
SD1005	174+86.59 WB	29.50' LT	996.09
SD1006	174+93.61 WB	29.50' LT	996.52
SD1007	174+84.61 WB	29.50' LT	996.41
SD1008	174+86.67 WB	17.70' RT	996.50
SD1009	174+86.67 WB	13.00' RT	996.75
SD1010	174+91.67 WB	13.00' RT	996.91
SD1011	174+91.67 WB	17.72' RT	996.59

POINT NO.	STATION	OFFSET	ELEVATION
SD1012	174+86.17 EB	29.82' RT	996.32
SD1013	174+87.66 EB	29.63' RT	995.88
SD1014	174+92.72 EB	29.63' RT	996.00
SD1015	174+92.72 EB	29.50' RT	996.01
SD1016	174+94.16 EB	29.50' RT	996.49
SD1018	174+92.72 EB	41.96' RT	995.70
SD1019	174+87.66 EB	35.63' RT	995.94
SD1020	174+87.66 EB	41.96' RT	995.62
SD1021	174+92.78 EB	51.96' RT	995.85
SD1022	174+87.78 EB	51.99' RT	995.77

POINT NO.	STATION	OFFSET	ELEVATION
SD1023	92+56.25 SD	33.89' RT	995.30
SD1024	92+66.25 SD	33.73' RT	995.25
SD1025	92+66.17 SD	28.73' RT	995.08
SD1026	92+56.17 SD	28.89' RT	995.22
SD1027	92+56.05 SD	20.89' RT	994.89
SD1028	92+56.02 SD	18.89' RT	994.88
SD1029	92+66.08 SD	22.74' RT	995.18
SD1030	92+67.32 SD	23.57' RT	995.66
SD1031	92+54.53 SD	18.68' RT	995.27



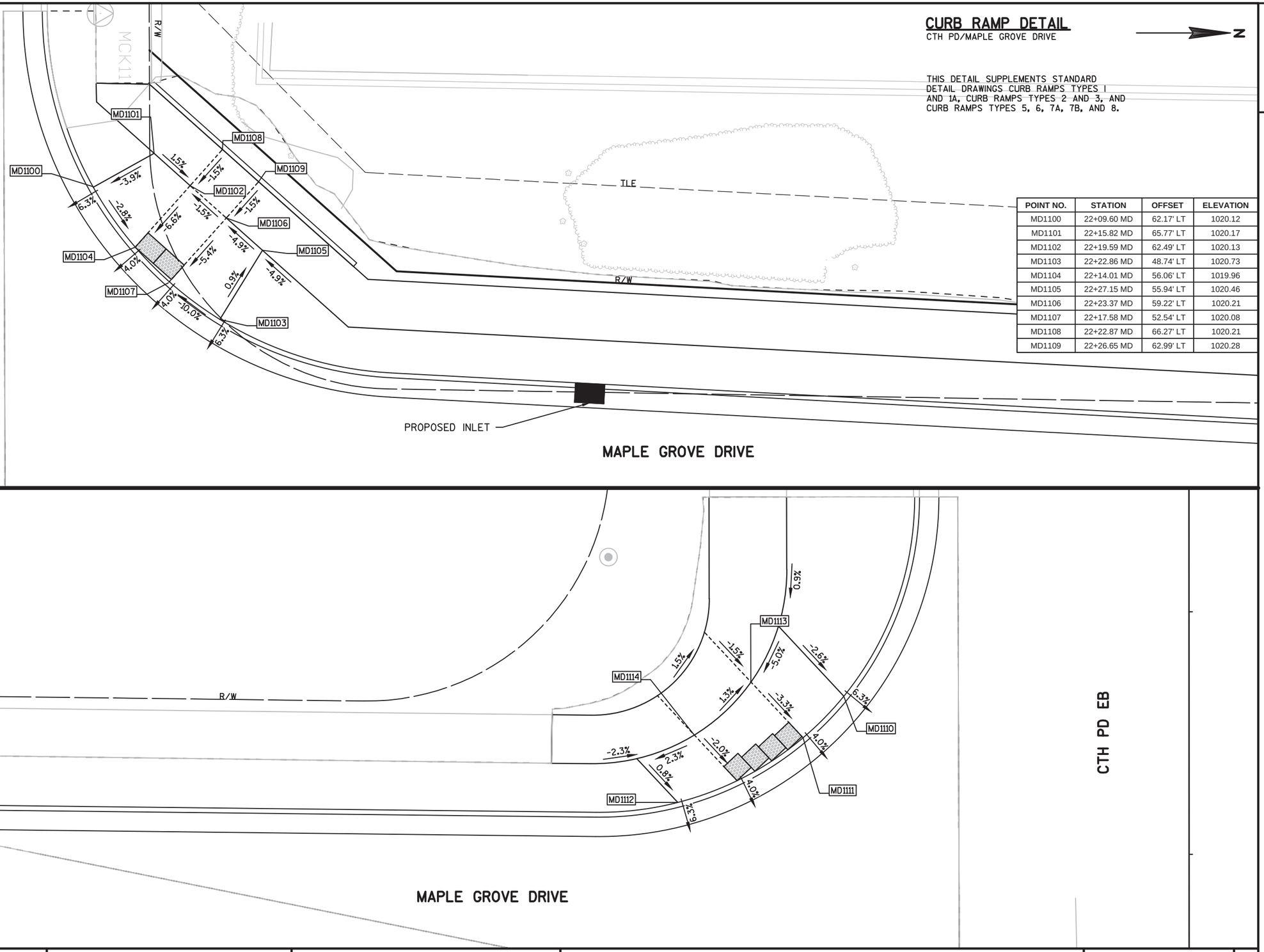
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CONSTRUCTION DETAILS: CURB RAMP	SHEET 64	E

CURB RAMP DETAIL

CTH PD/MAPLE GROVE DRIVE

N

THIS DETAIL SUPPLEMENTS STANDARD DETAIL DRAWINGS CURB RAMPS TYPES 1 AND 1A, CURB RAMPS TYPES 2 AND 3, AND CURB RAMPS TYPES 5, 6, 7A, 7B, AND 8.



POINT NO.	STATION	OFFSET	ELEVATION
MD1100	22+09.60 MD	62.17' LT	1020.12
MD1101	22+15.82 MD	65.77' LT	1020.17
MD1102	22+19.59 MD	62.49' LT	1020.13
MD1103	22+22.86 MD	48.74' LT	1020.73
MD1104	22+14.01 MD	56.06' LT	1019.96
MD1105	22+27.15 MD	55.94' LT	1020.46
MD1106	22+23.37 MD	59.22' LT	1020.21
MD1107	22+17.58 MD	52.54' LT	1020.08
MD1108	22+22.87 MD	66.27' LT	1020.21
MD1109	22+26.65 MD	62.99' LT	1020.28

POINT NO.	STATION	OFFSET	ELEVATION
MD1110	21+22.81 MD	64.10' LT	1018.82
MD1111	21+15.72 MD	59.92' LT	1018.51
MD1112	21+02.87 MD	53.10' LT	1018.86
MD1113	21+10.28 MD	65.06' LT	1018.77
MD1114	21+04.50 MD	60.07' LT	1018.67

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	CONSTRUCTION DETAILS: CURB RAMP	SHEET 65	E

PLAN DETAILS LEGEND

→	TRAFFIC FLOW
	CURB RAMP DETECTABLE WARNING FIELD YELLOW
X	CURB RAMP, TYPE X
■	PROPOSED STORM SEWER INLET
●	PROPOSED STORM SEWER MANHOLE
	PROPOSED APRON ENDWALL
- - - -	SLOPE INTERCEPT
CS-5	CONCRETE SIDEWALK 5-INCH
XXXX	SAWING ASPHALT
////////.	SAWING CONCRETE
R-WAL	RETAINING WALL

CD-7	CONCRETE DRIVEWAY 7-INCH
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
GRVL-6	6-INCH BASE AGGREGATE DENSE 3/4-INCH
CG-30	CONCRETE CURB & GUTTER, TYPE D 30-INCH
CG-24	CONCRETE CURB & GUTTER, TYPE D 24-INCH SPECIAL (SEE CONSTRUCTION DETAIL)
MP-3	MULTI-USE PATH 3-INCH HMA PAVEMENT TYPE 3 LT 58-28 S
CP	CONCRETE CURB PEDESTRIAN
AC	ASPHALTIC CURB
M-A	MAINTENANCE OPENING, SEE CONSTRUCTION DETAIL "MAINTENANCE OPENING DETAIL"
SN-1	CONCRETE MEDIAN SLOPED NOSE TYPE-1

2

RIP RAP

WV

WV

WV

SIGN

MERITER WAY

CTH PD WB

CTH PD EB

108+00'WB' 109+00'WB' 110+00'WB' 111+00'WB' 11+00'MW' 112+00'WB' 113+00'WB' 114+00'WB'

108+00'EB' 109+00'EB' 110+00'EB' 111+00'EB' 112+00'EB' 113+00'EB' 114+00'EB'

SLOPE INTERCEPT (TYP.)

MATCH LINE STA. 114+00'WB'

SN-1

CS-5

CS-5

MP-3

CG-30

CG-24

CG-30

CG-24

BIKE LANE

BIKE LANE

ASPHALTIC FLUME (SEE S.D.D.)

1032.29 1032.52 1032.89 1033.14 1033.95 1034.32 1034.86 1034.95 1034.98 1035.68 1035.89 1035.11 1035.96 1036.81 1035.48 1033.73 1034.57 1035.44 1036.27 1037.12 1037.98 1038.90 1039.91 1040.99 1042.15 1043.39

1036.59 1037.53 1038.52 1039.59 1040.73 1041.95 1043.24 1044.61

1037.89 1038.95 1040.10 1041.31 1042.61 1043.97

1034.98 1035.99 1036.90

1037.44 1038.43 1039.49 1040.63 1041.85 1043.15 1044.51

1036.78 1037.68 1038.52 1039.44 1040.45 1041.53 1042.69 1043.93

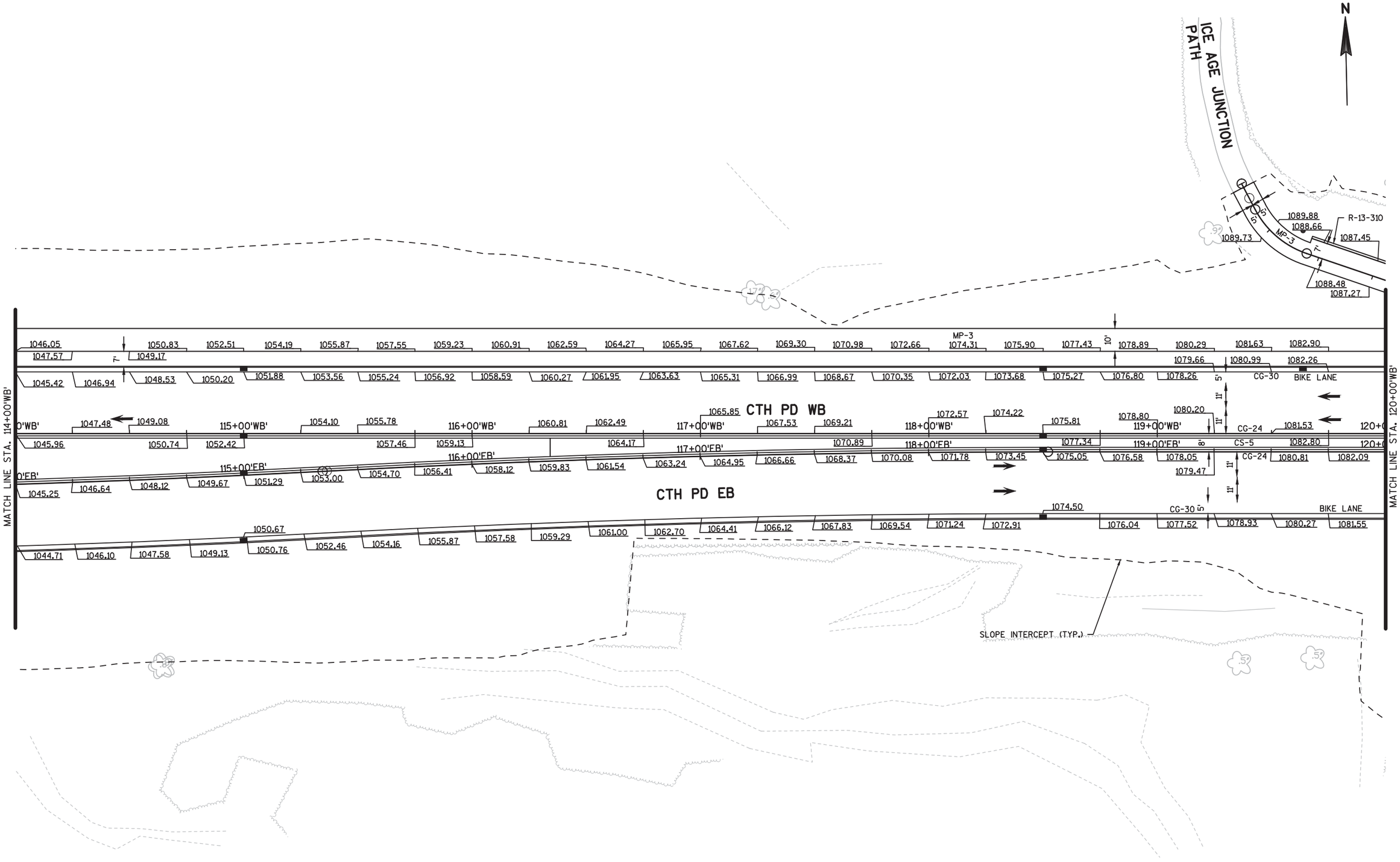
16" 10"

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS: CTH PD	SHEET 67	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\021201-PD-PD.DWG
LAYOUT NAME - 021202

PLOT DATE : 10/20/2016 7:26 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS: CTH PD	SHEET 68	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\021201-PD-PD.DWG
LAYOUT NAME - 021203

PLOT DATE : 10/20/2016 7:26 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

ICE AGE NATIONAL SCENIC TRAIL

SNOWYCAP TRAIL

ICE AGE JUNCTION PATH

RETAINING WALL
STA. 209+61'AT' - STA. 210+24'AT'
(SEE CONSTRUCTION DETAIL)

SLOPE INTERCEPT (TYP.)

BIKE RAKE PAD

33+00'ST'

32+00'ST'

34+00'ST'

210+00'AT'

209+00'AT'

216+00'AT'

215+00'AT'

214+00'AT'

213+00'AT'

212+00'AT'

207+00'AT'

206+00'AT'

MP-3

R-WAL

R-13-310
(SEE STRUCTURE PLANS)

R-13-309
(SEE STRUCTURE PLANS)

ASPHALTIC FLUME (SEE S.D.D.)

B-13-847
PEDESTRIAN BRIDGE OVER CTH PD
(SEE STRUCTURE PLANS)

CTH PD WB

CTH PD EB

BIKE LANE

CG-30

CG-24

CS-5

CD-7

ASPH

DRIVEWAY 122+00'DW'

12+00'DW'

11+00'DW'

32+00'C'

AC

HSE

MATCH LINE STA. 120+00'WB'

MATCH LINE STA. 126+00'WB'

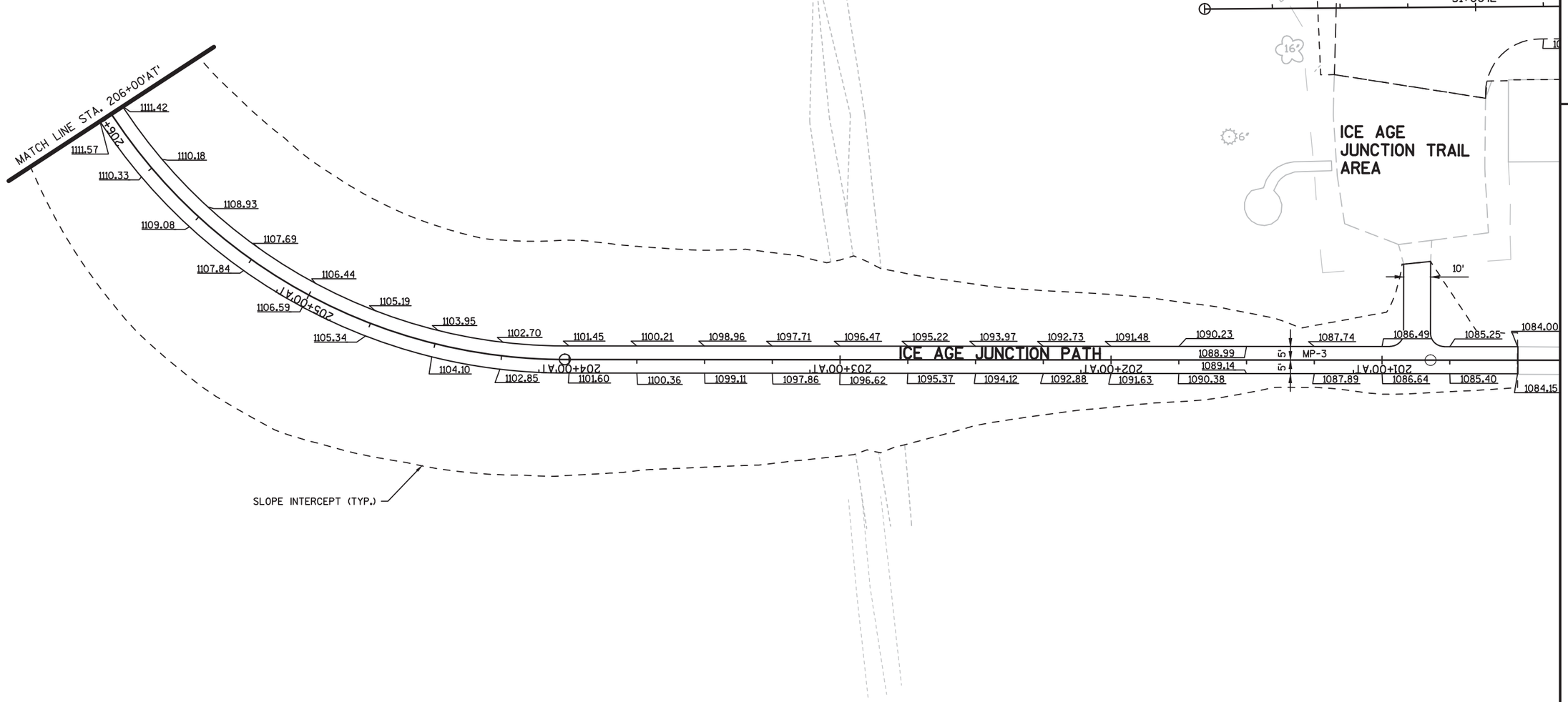
MATCH LINE STA. 206+00'AT'

N

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN DETAILS: CTH PD	SHEET 69	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\021201-PD-PD.DWG
LAYOUT NAME - 021204

PLOT DATE : 10/20/2016 7:26 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS: CTH PD	SHEET 70	E

2

2

N

BIKE SLIP RAMP
(SEE CONSTRUCTION DETAIL)

R-WAL

12'

1094.20

1100.35 1099.12 1097.89 1096.66 1095.43

R-13-309
(SEE DETAIL)

1092.97 1091.74 1090.51 1089.28 1088.05

MP-3

1086.81 1085.56 1084.31 1083.06 1081.75 1080.40 1079.00 1077.53 1074.18 1075.93

10'

14'

1072.43 1070.68 1068.93

MP-3

ASPHALTIC FLUME (SEE S.D.D.)

1093.33 1092.94 1092.49 1091.98 1091.40 1090.76 1090.05 1089.28 1088.45 1087.56 1086.60 1085.57 1084.49

1083.34

BIKE LANE

1082.12

CG-30

1080.84 1079.50 1078.09 1076.63

5'

1075.09 1073.49 1071.83 1070.11 1068.36

CTH PD WB

MATCH LINE STA. 126+00'WB'

0'WB' 1093.48 1093.03 1092.52 127+00'WB' 1091.30 1090.59 1089.82 128+00'WB' 1088.10 1087.14 1086.11 129+00'WB' 1085.03

CG-24

1083.87 1082.66 130+00'WB' 1078.63 1077.16 1075.63 131+00'WB' 1074.03 1072.37 1070.65 1068.90 132+0

11' 11' 11'

1093.87 1091.94 1088.99

M-A

1086.98 1086.04

TAPER 8:1

1081.38 1080.04 1075.79 1072.57 CS-5

8"

0'EB' 127+00'EB' 128+00'EB' 129+00'EB' 130+00'EB' 131+00'EB' 132+0

1085.03 1083.93 1082.73 1081.47 1080.15 1078.76 1077.31 1074.22 1070.87 1069.12

1093.49 1093.12 1092.68 1092.18 1091.62 1090.99 1090.31 1089.56

CG-24

1088.74

1087.86 1086.92 1085.91 1084.84 1083.71 1082.51 1081.25 1079.93 1078.54 1077.09 1075.57 1073.99 1072.35 1070.65 1068.90

11' 11' 11'

CTH PD EB

MATCH LINE STA. 132+00'WB'

1092.95 1092.58 1092.14 1091.64 1091.08 1090.46 1089.77 1089.02 1088.20 1087.32 1086.38 1085.37 1084.30

CG-30

1083.17 1081.97 1080.71 1079.39

BIKE LANE

1078.00 1076.55 1075.03

5'

1073.46 1071.81 1070.11 1068.36

SLOPE INTERCEPT (TYP.)

1067.32

1068.56

12+00'A'

MP-3

1069.80

1085.56 1084.56 1083.56 1082.56 1081.56 1080.56 1079.51 1078.16 1076.51 1074.56 1072.56 1070.56

AC

51+00'IE' 52+00'IE' 53+00'IE'

24'

ICE AGE TRAIL ENTRANCE

1071.04

1082.88 1082.04 1081.04 1079.99 1078.64 1076.99 1075.04 1073.04

1071.11

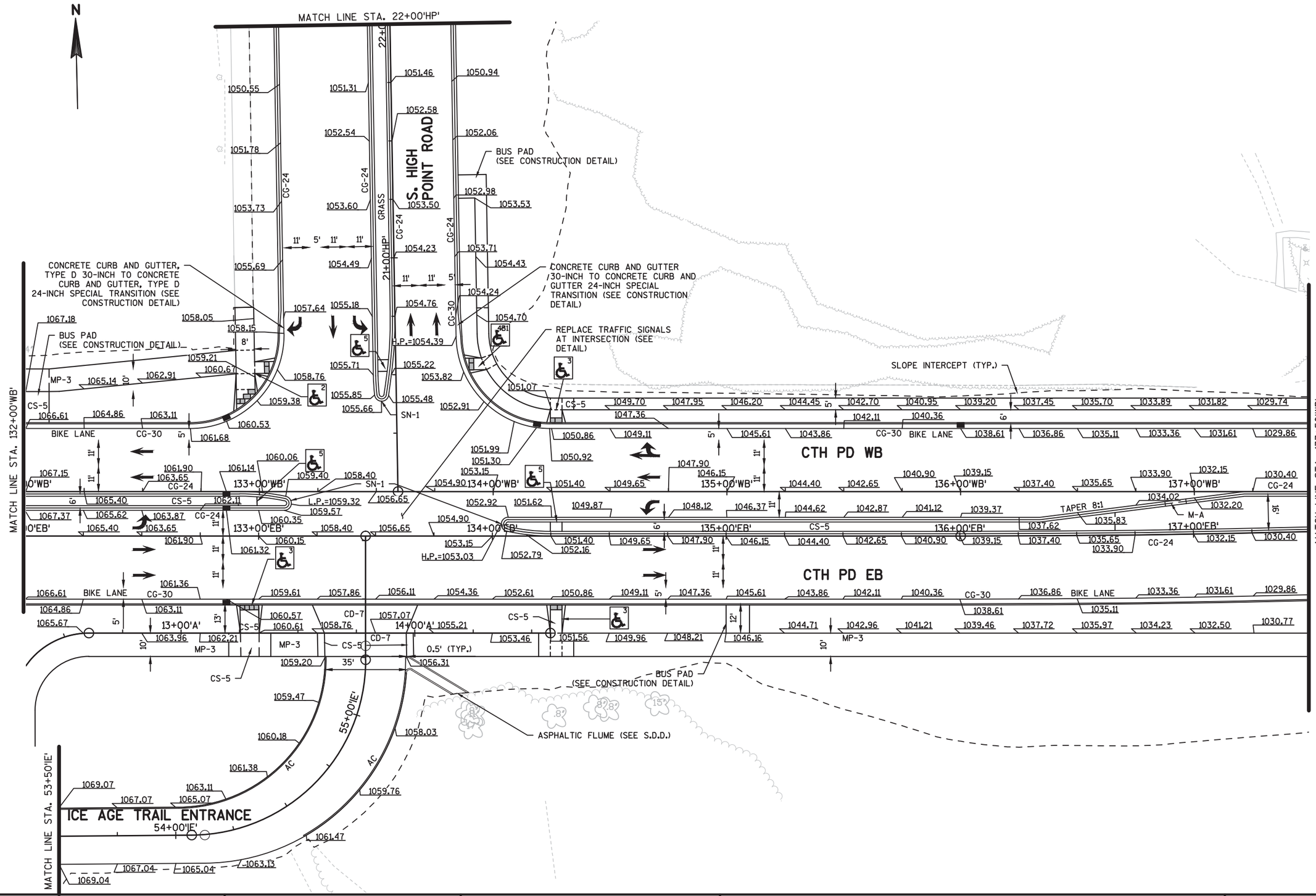
16'

TRAIL A

MATCH LINE STA. 53+50'IE'

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN DETAILS: CTH PD	SHEET 71	E

2

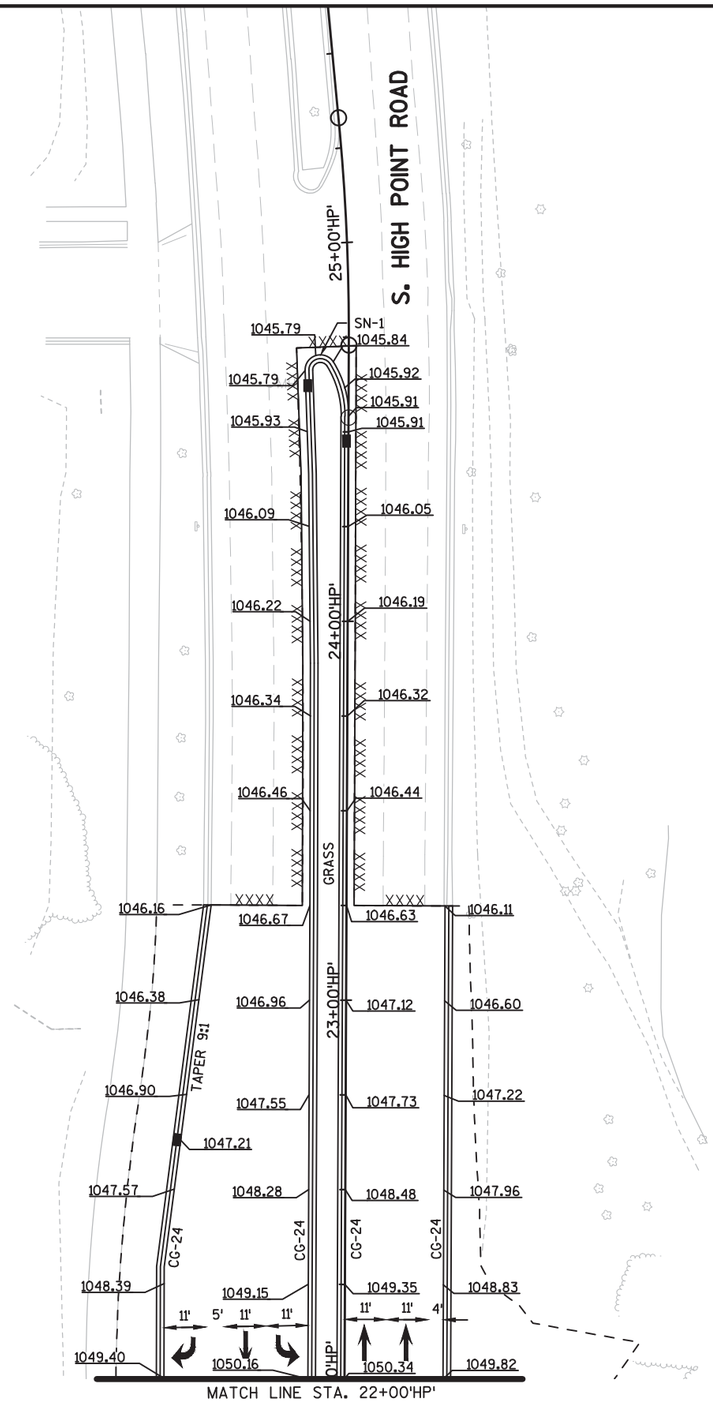


PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN DETAILS: CTH PD	SHEET 72	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\021201-PD-PD.DWG
LAYOUT NAME - 021206
PLOT DATE : 10/28/2016 12:17 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS: CTH PD	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\021201-PD-PD.DWG
LAYOUT NAME - 021206

PLOT DATE : 10/20/2016 7:27 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

N

STRATON WAY
31+00'SW'

16' 16'

XXXX XXXX

1020.05 1020.29 1019.98
1021.32
1020.94 1021.26 1020.94
1021.83 1022.15 1021.83 1022.55
1023.15 1022.91 1022.59 1022.63
1027.67
1024.58
H.P.=1023.17
1021.64
1025.10 1023.54
1021.24
CS-5 1025.61 CS-5
1022.82
1022.46
1021.79
1024.04
1026.86 1026.18
1021.12
1027.80
1028.11
1028.65 1028.30
1028.25 CS-5
1026.90 1023.40 1025.15
1021.65 CS-5
1028.65 1026.90 1025.15 1023.40 1021.65
1028.11
1027.72 1022.86
1026.36 1024.61 1021.11
CS-5 CS-5
1027.32 1025.59 1023.85
1029.04 1022.00

1019.77 1018.02
1019.36 1017.62 1015.95 1014.36 1012.84 1010.05 1008.77 1007.57 1006.45 1005.40 1004.44 1003.55 CS-5 1002.00 1001.28 CS-5 999.82 999.09
1011.40
6'
5'
CG-30
BIKE LANE
1002.74
1000.55

EXISTING CONCRETE SIDEWALK TO REMAIN

CP CP

138+00'WB' 139+00'WB' 140+00'WB' CG-24 141+00'WB' CTH PD WB 142+00'WB' 143+00'WB'

1016.49 1014.90 1010.59 1004.98 1002.61 1002.54 1001.09 1000.36
1013.38 1011.95 1009.31 1008.11 1006.99 1005.94 1004.09 1003.28 999.63
1001.82 H.P.=1000.93 999.85
1001.88 SN-1 L.P.=1001.77
1000.58
13'
1013.28 1009.12 1005.66 1003.76 CS-5 CS-5
138+00'EB' 139+00'EB' 140+00'EB' 141+00'EB' 142+00'EB' 143+00'EB'
1019.90 1018.15 1016.45 1014.82 1011.81 CG-24 1010.43 1007.89 1006.73 1004.67 1002.92 1002.17 1001.49 1001.82 1000.93 1000.83 1000.84 1000.23 8' 999.60
11'
11'
11'
CTH PD EB
1011.23 1009.88 1007.35 CG-30
5'
1008.58
1006.20 1005.13 1004.13 1003.22 1002.36 1002.10 1001.72 1001.05 1000.06 CG-30
1001.33 1000.34 999.69 999.06
1001.22 999.79
1001.01 1000.30 1000.32 999.90
1000.80
1008.27 1007.09 1006.00 1005.01 1003.70 1002.30 CS-5 H.P.=1000.40 CS-5 MP-3
14'
10'
MP-3
10'
1000.69 1000.47
1000.54 1000.67 1000.37
14' 14'
1000.55
1000.22 1000.16

MATCH LINE STA. 137+50'WB'

MATCH LINE STA. 143+50'WB'

SLOPE INTERCEPT (TYP.)

SNOWY PARKWAY
41+80'SP'

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS: CTH PD	SHEET 74	E

2

N

BADGER MILL CREEK

WETLAND BOUNDARY

DRAINAGE POND TO BE RECONSTRUCTED (SEE CONSTRUCTION DETAIL)

EXISTING CONCRETE SIDEWALK TO REMAIN

CTH PD WB

CTH PD EB

BIKE LANE

BIKE LANE

CG-30

CG-24

CG-24

CG-30

M-A

M-A

TAPER 8:1

TAPER 8:1

MP-3

L.P.=986.71

LP=987.25

L.P.=987.74

L.P.=987.07

144+00'WB'

145+00'WB'

146+00'WB'

147+00'WB'

148+00'WB'

149+00'WB'

144+00'EB'

145+00'EB'

146+00'EB'

147+00'EB'

148+00'EB'

149+00'EB'

MATCH LINE STA. 143+50'WB'

MATCH LINE STA. 149+50'WB'

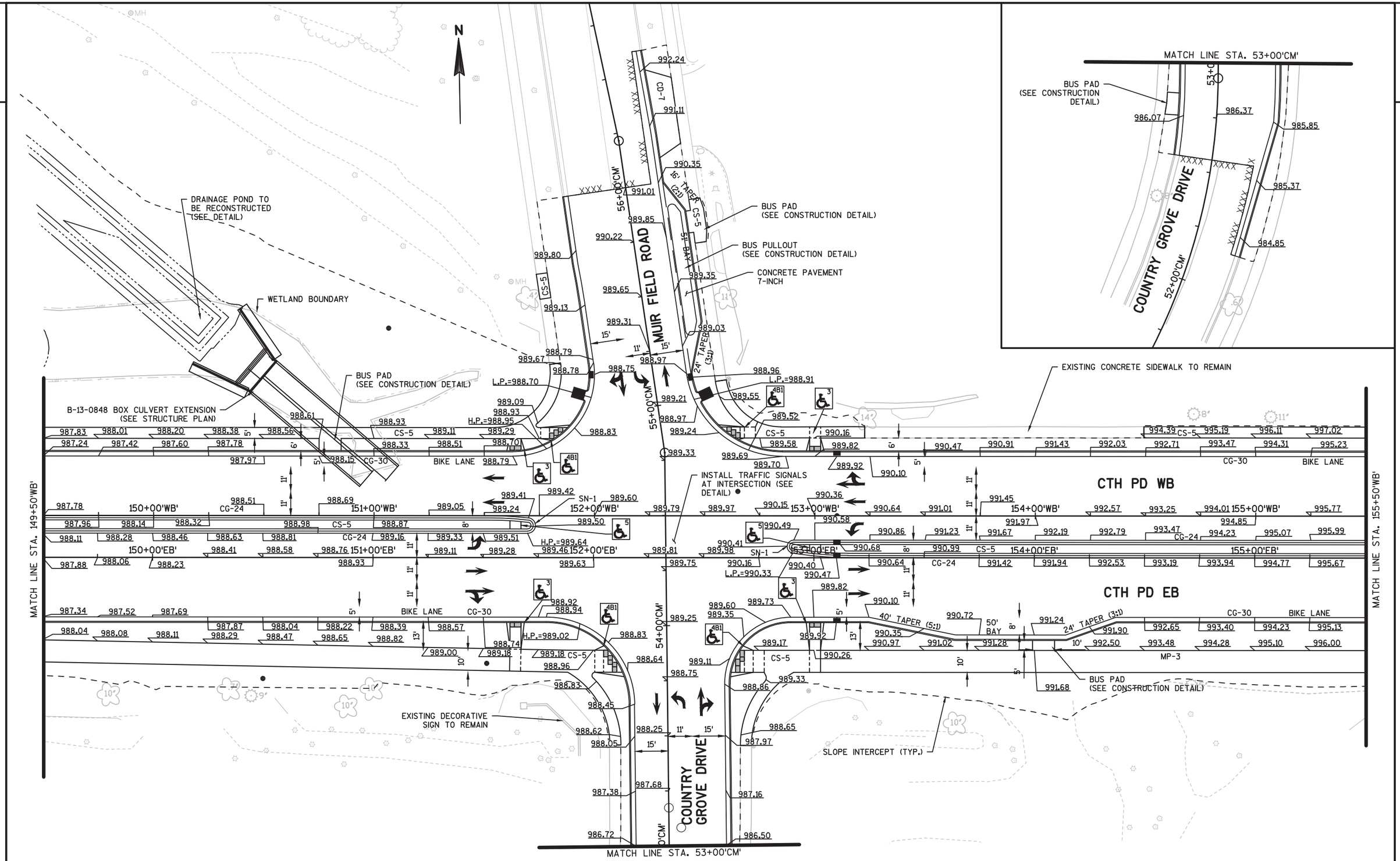
SLOPE INTERCEPT (TYP.)

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS: CTH PD	SHEET 75	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\021201-PD-PD.DWG
LAYOUT NAME - 021208

PLOT DATE : 10/20/2016 7:27 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS: CTH PD	SHEET 76	E

2

N

MATCH LINE STA. 155+50'WB'

MATCH LINE STA. 161+50'WB'

CTH PD WB

CTH PD EB

SLOPE INTERCEPT (TYP.)

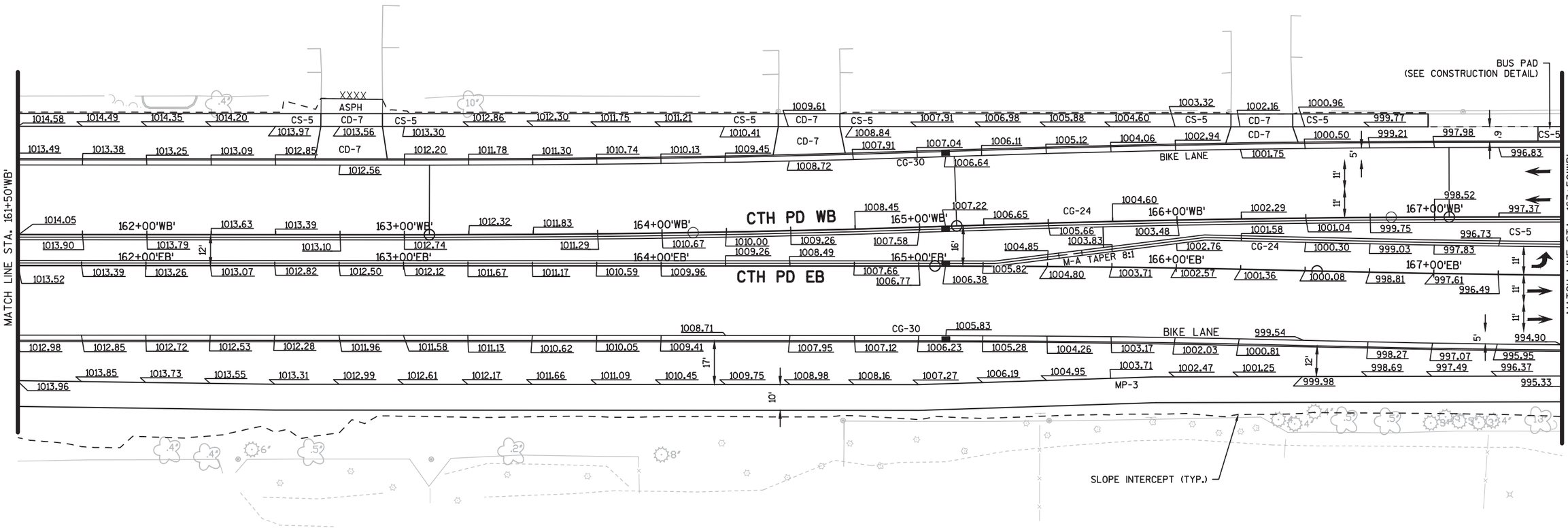
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN DETAILS: CTH PD	SHEET 77	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\021201-PD-PD.DWG
LAYOUT NAME - 021210

PLOT DATE : 10/20/2016 7:28 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN DETAILS: CTH PD	SHEET 78	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\021201-PD-PD.DWG
LAYOUT NAME - 021211

PLOT DATE : 10/20/2016 7:28 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

SIVLERTON TRAIL

74+00'TD'

73+00'TD'

72+00'TD'

71+00'TD'

16' 16'

5' L.P.=991.18 991.33 991.54 992.08 991.43 991.06 5' 991.05 991.07 991.13 991.63 991.00 990.90 CP 990.84 990.71 990.26 990.47 990.03 989.67 990.66 990.88 991.99 992.67 992.55 992.99 993.51 995.76 994.77 993.86 CG-30 993.08 CS-5 4B1 3

CS-5 989.89 989.58 989.48 989.56 989.59 989.71 989.88 990.13 990.47 990.86 991.29 991.89 992.48 993.05 989.18 989.04 989.01 989.14 989.33 989.59 989.94 990.36 990.86 991.42 991.98 992.54 989.38 988.95 988.95 L.P.=988.90 BIKE LANE CG-30

CTH PD WB

168+00'WB' 169+00'WB' 170+00'WB' 171+00'WB' 172+00'WB' 173+00'WB'

994.05 994.40 996.30 995.31 994.74 995.68 CG-24 12' 168+00'WB' 993.57 993.53 SN-1 992.81 L.P.=993.33 991.96 993.97 CS-5 993.64 993.16 993.22 992.07 168+00'EB' 995.44 994.48 993.60 992.79 992.13 991.01 990.21 990.57 169+00'WB' 991.53 H.P.=991.04 L.P.=990.87 SN-1 991.42 169+00'EB' 990.85 990.69 990.94 990.46 990.25 990.70 990.43 990.14 989.94 989.80 989.72 989.59 989.54 170+00'WB' 989.92 989.68 989.57 L.P.=989.66 989.77 989.89 TAPER 8:1 990.02 989.50 989.68 989.87 990.13 M-A 990.23 990.51 990.90 991.40 991.96 992.52 993.08 172+00'WB' 171+00'WB' 170+00'EB' 989.62 989.36 989.19 989.07 CS-5 989.08 L.P.=988.98 989.14 989.28 CG-24 989.80 990.17 990.63 991.16 991.73 992.30 992.86 172+00'FB' 173+00'FB' 19' 11' 11' 11' 11' 12'

CTH PD EB

MATCH LINE STA. 167+50'WB'

MATCH LINE STA. 173+50'WB'

992.15 4B1 992.64 992.71 CG-30 993.94 993.06 994.13 992.87 991.88 MP-3 CS-5 991.67 4B1 991.22 991.10 5' 9' 990.50 990.29 989.89 989.51 989.57 989.21 990.87 990.19 990.14 990.10 990.24 990.26 989.82 990.34 H.P.=990.30 989.41 989.08 989.82 990.15 MP-3 988.82 988.48 L.P.=988.43 988.48 988.65 989.28 988.52 989.31 989.34 10' 5' 990.00 CS-5 BUS PAD (SEE CONSTRUCTION DETAIL) SLOPE INTERCEPT (TYP.) 988.47 988.59 988.73 988.96 989.25 989.63 990.09 990.62 BIKE LANE CG-30 CD-7 990.71 991.01 991.19 991.75 992.32 991.80 992.64 993.76 993.20 ASPH.

TANGLEWOOD DRIVE

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS: CTH PD	SHEET 79	E

2

N

EXISTING CONCRETE SIDEWALK TO REMAIN

EXISTING RETAINING WALL TO REMAIN

MATCH LINE STA. 173+50'WB'

MATCH LINE STA. 179+50'WB'

CTH PD WB

CTH PD EB

BIKE LANE

SLOPE INTERCEPT (TYP.)

EXISTING PATH TO REMAIN

STONECREEK DRIVE

92+00'SD'

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS: CTH PD	SHEET 80 E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\021201-PD-PD.DWG
LAYOUT NAME - 021213

PLOT DATE : 10/20/2016 7:28 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

EXISTING CONCRETE SIDEWALK TO REMAIN

EXISTING RETAINING WALL TO REMAIN

EXISTING RETAINING WALL TO REMAIN

CP

CS-5

5"

3"

BUS PAD
(SEE CONSTRUCTION DETAIL)

CTH PD WB

MATCH LINE STA. 179+50'WB'

1008.62

180+00'WB'

181+00'WB'

182+00'WB'

183+00'WB'

184+00'WB'

1019

MATCH LINE STA. 185+00'WB'

1006.96 1007.53 1008.07 CG-24 1009.22 1009.79

1006.37 180+00'EB' CG-24 1008.34 181+00'EB'

1007.83

1006.84 1007.34 1008.88

182+00'EB'

183+00'EB'

184+00'EB'

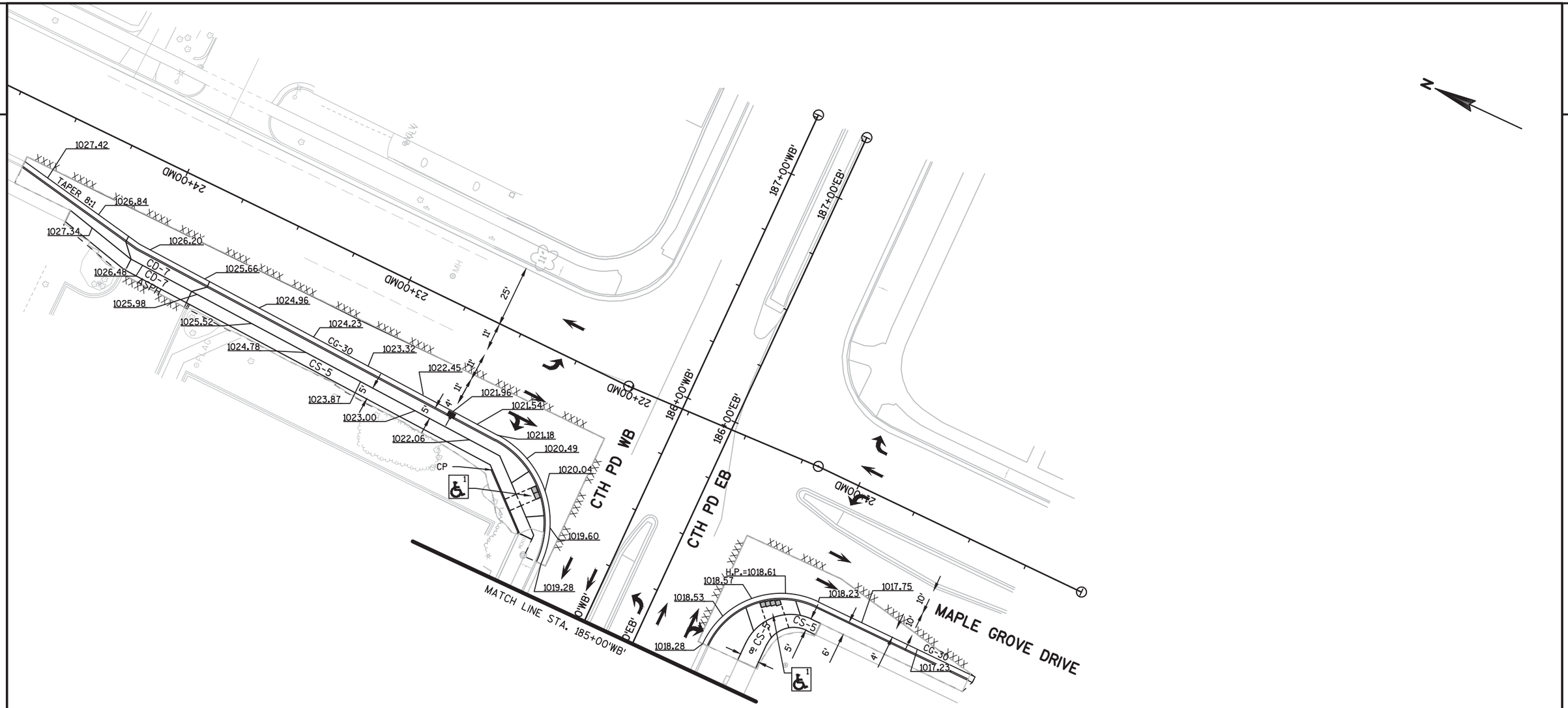
CTH PD EB

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN DETAILS: CTH PD	SHEET 81	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\021201-PD-PD.DWG
LAYOUT NAME - 021214

PLOT DATE : 10/20/2016 7:29 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



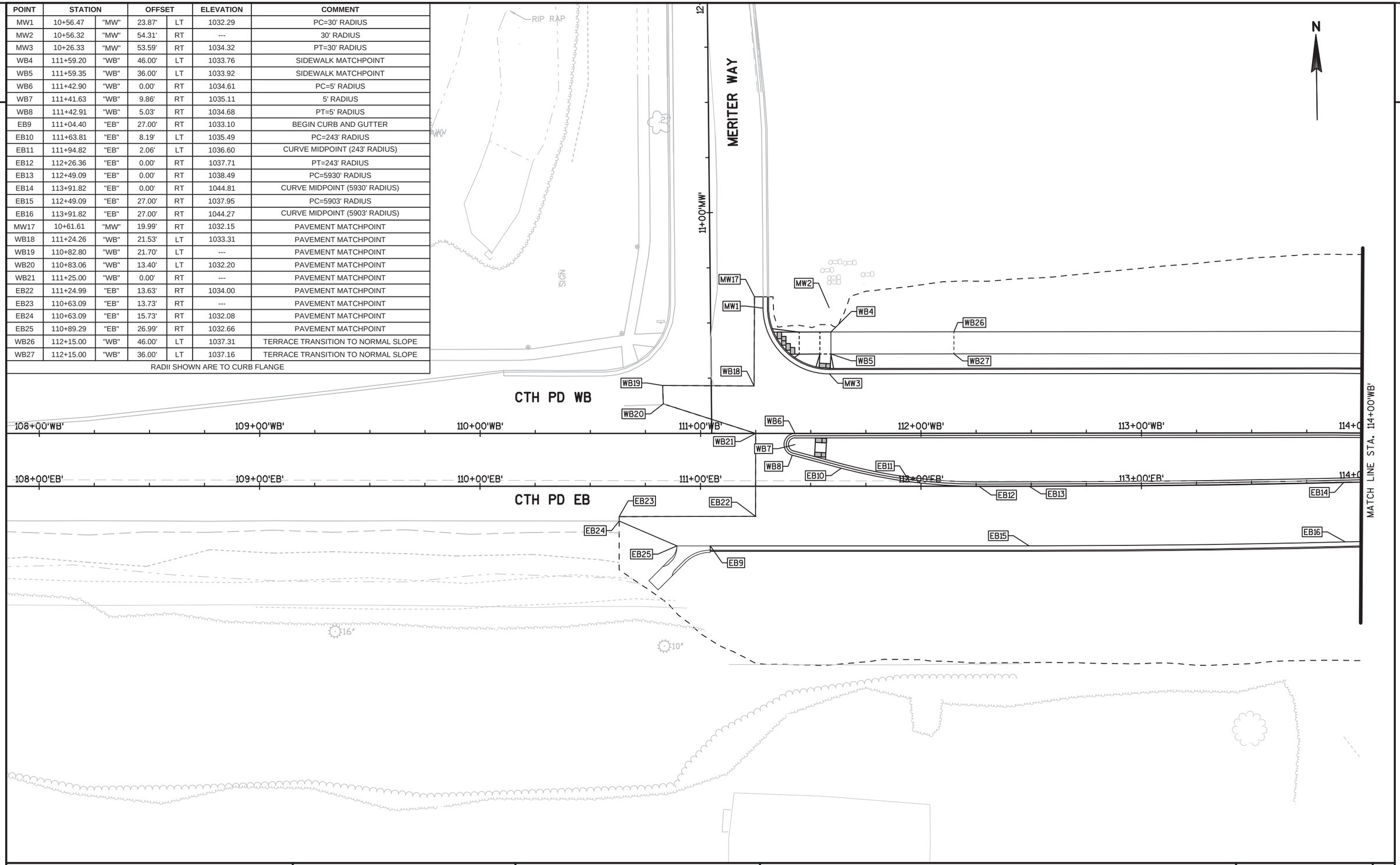
PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS: CTH PD	SHEET 82	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\021201-PD-PD.DWG
LAYOUT NAME - 021214

PLOT DATE : 10/20/2016 7:29 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

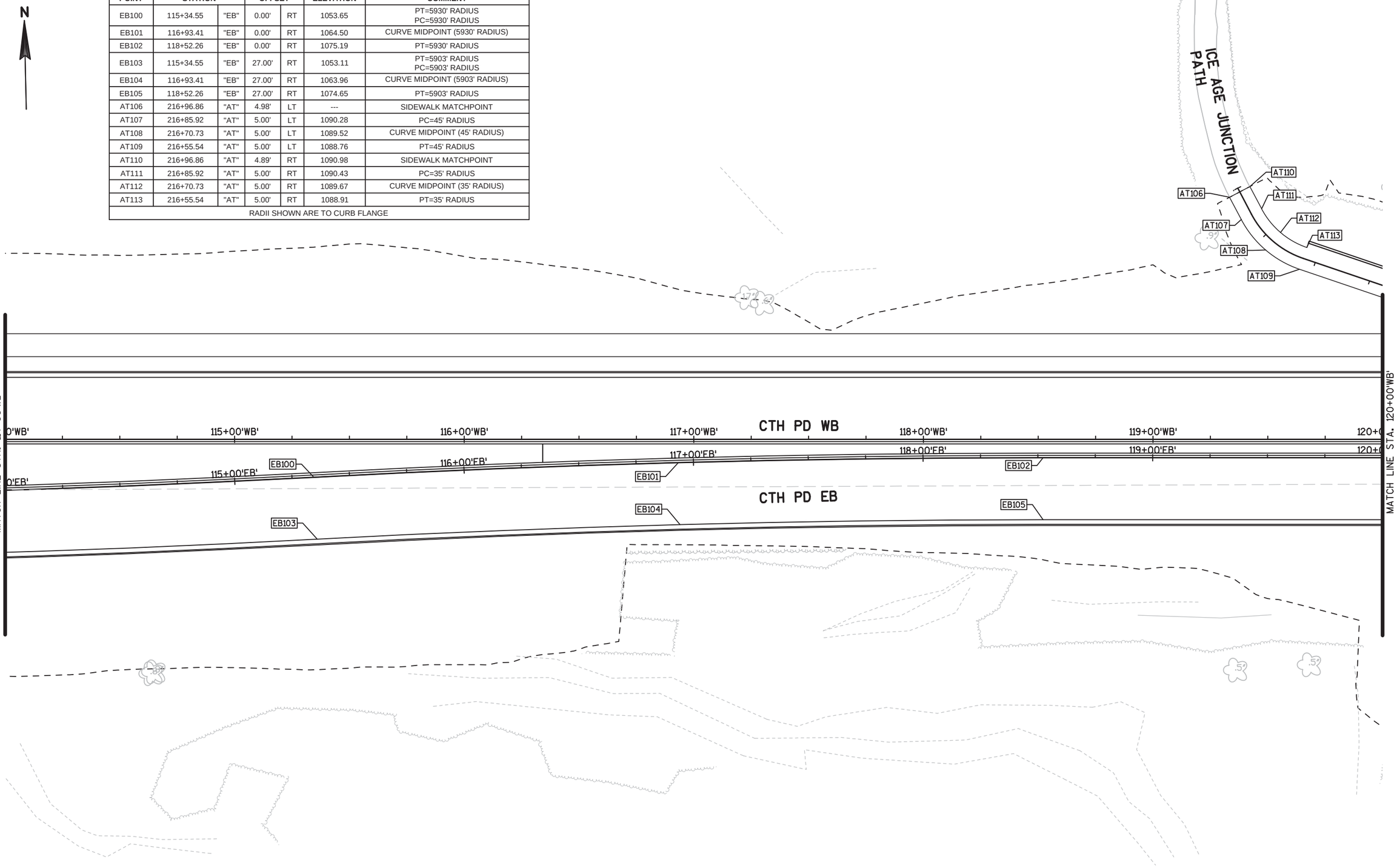
POINT	STATION		OFFSET		ELEVATION	COMMENT
MW1	10+56.47	"MW"	23.87'	LT	1032.29	PC=30' RADIUS
MW2	10+56.32	"MW"	54.31'	RT	---	30' RADIUS
MW3	10+26.33	"MW"	53.59'	RT	1034.32	PT=30' RADIUS
WB4	111+59.20	"WB"	46.00'	LT	1033.76	SIDEWALK MATCHPOINT
WB5	111+59.35	"WB"	36.00'	LT	1033.92	SIDEWALK MATCHPOINT
WB6	111+42.90	"WB"	0.00'	RT	1034.61	PC=5' RADIUS
WB7	111+41.63	"WB"	9.86'	RT	1035.11	5' RADIUS
WB8	111+42.91	"WB"	5.03'	RT	1034.68	PT=5' RADIUS
EB9	111+04.40	"EB"	27.00'	RT	1033.10	BEGIN CURB AND GUTTER
EB10	111+63.81	"EB"	8.19'	LT	1035.49	PC=243' RADIUS
EB11	111+94.82	"EB"	2.06'	LT	1036.60	CURVE MIDPOINT (243' RADIUS)
EB12	112+26.36	"EB"	0.00'	RT	1037.71	PT=243' RADIUS
EB13	112+49.09	"EB"	0.00'	RT	1038.49	PC=5930' RADIUS
EB14	113+91.82	"EB"	0.00'	RT	1044.81	CURVE MIDPOINT (5930' RADIUS)
EB15	112+49.09	"EB"	27.00'	RT	1037.95	PC=5903' RADIUS
EB16	113+91.82	"EB"	27.00'	RT	1044.27	CURVE MIDPOINT (5903' RADIUS)
MW17	10+61.61	"MW"	19.99'	RT	1032.15	PAVEMENT MATCHPOINT
WB18	111+24.26	"WB"	21.53'	LT	1033.31	PAVEMENT MATCHPOINT
WB19	110+82.80	"WB"	21.70'	LT	---	PAVEMENT MATCHPOINT
WB20	110+83.06	"WB"	13.40'	LT	1032.20	PAVEMENT MATCHPOINT
WB21	111+25.00	"WB"	0.00'	RT	---	PAVEMENT MATCHPOINT
EB22	111+24.99	"EB"	13.63'	RT	1034.00	PAVEMENT MATCHPOINT
EB23	110+63.09	"EB"	13.73'	RT	---	PAVEMENT MATCHPOINT
EB24	110+63.09	"EB"	15.73'	RT	1032.08	PAVEMENT MATCHPOINT
EB25	110+89.29	"EB"	26.99'	RT	1032.66	PAVEMENT MATCHPOINT
WB26	112+15.00	"WB"	46.00'	LT	1037.31	TERRACE TRANSITION TO NORMAL SLOPE
WB27	112+15.00	"WB"	36.00'	LT	1037.16	TERRACE TRANSITION TO NORMAL SLOPE

RADII SHOWN ARE TO CURB FLANGE



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN DETAILS - STAKEOUT DATA: CTH PD	SHEET 83	E

POINT	STATION		OFFSET		ELEVATION	COMMENT
EB100	115+34.55	"EB"	0.00'	RT	1053.65	PT=5930' RADIUS PC=5930' RADIUS
EB101	116+93.41	"EB"	0.00'	RT	1064.50	CURVE MIDPOINT (5930' RADIUS)
EB102	118+52.26	"EB"	0.00'	RT	1075.19	PT=5930' RADIUS
EB103	115+34.55	"EB"	27.00'	RT	1053.11	PT=5903' RADIUS PC=5903' RADIUS
EB104	116+93.41	"EB"	27.00'	RT	1063.96	CURVE MIDPOINT (5903' RADIUS)
EB105	118+52.26	"EB"	27.00'	RT	1074.65	PT=5903' RADIUS
AT106	216+96.86	"AT"	4.98'	LT	---	SIDEWALK MATCHPOINT
AT107	216+85.92	"AT"	5.00'	LT	1090.28	PC=45' RADIUS
AT108	216+70.73	"AT"	5.00'	LT	1089.52	CURVE MIDPOINT (45' RADIUS)
AT109	216+55.54	"AT"	5.00'	LT	1088.76	PT=45' RADIUS
AT110	216+96.86	"AT"	4.89'	RT	1090.98	SIDEWALK MATCHPOINT
AT111	216+85.92	"AT"	5.00'	RT	1090.43	PC=35' RADIUS
AT112	216+70.73	"AT"	5.00'	RT	1089.67	CURVE MIDPOINT (35' RADIUS)
AT113	216+55.54	"AT"	5.00'	RT	1088.91	PT=35' RADIUS
RADII SHOWN ARE TO CURB FLANGE						



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS - STAKEOUT DATA: CTH PD	SHEET 84	E

2

N

ICE AGE NATIONAL SCENIC TRAIL

SNOWYCAP TRAIL

ICE AGE JUNCTION PATH

33+00'ST'

32+00'ST'

51+00'D'

210+00'AT'

209+00'AT'

216+00'AT'

215+00'AT'

214+00'AT'

213+00'AT'

212+00'AT'

211+00'AT'

207+00'AT'

206+00'AT'

ST236 ST238 ST237 ST248 ST249 ST250 ST247 ST243 ST240 ST241 ST242 ST239 ST244 ST245 ST246 ST290 ST291 ST292

D288 D284 D283 D287 D282 D285 D289 D286 D281 D280 D279 D278 D290 D291 D292 D277

AT254 AT255 AT256 AT251 AT262 AT252 AT263 AT261 AT258 AT259 AT260 AT297

AT224 AT225 AT229 AT226 AT227 AT228 AT230 AT231 AT233 AT234 AT235 AT295 AT296

CTH PD WB

MATCH LINE STA. 120+00'WB'

MATCH LINE STA. 126+00'WB'

0'WB' 121+00'WB' 122+00'WB' 123+00'WB' 124+00'WB' 125+00'WB' 126+

0'EB' 121+00'EB' 122+00'EB' 123+00'EB' 124+00'EB' 125+00'EB' 126+

EB200 EB201 EB202 EB203 EB204 EB205

CTH PD EB

DW275 DW276 DW212 DW206 DW213 DW214 DW215 DW216 DW217 DW218 DW219 DW220 DW274 DW273 DW221 DW222 DW223 DW272 DW211 DW210 DW209 DW208 DW207

12+00'DW'

11+00'DW'

DRIVEWAY 122+25'DW'

AT264 AT265

207+00'AT'

D293 D266 D267 D269 D270 D271 D268 D294

32+00'C'

ICE AGE NATIONAL SCENIC TRAIL

ICE AGE JUNCTION PATH

MATCH LINE STA. 206+00'AT'

HSE

SHEET 1 OF 2

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN DETAILS - STAKEOUT DATA: CTH PD	SHEET 85	E

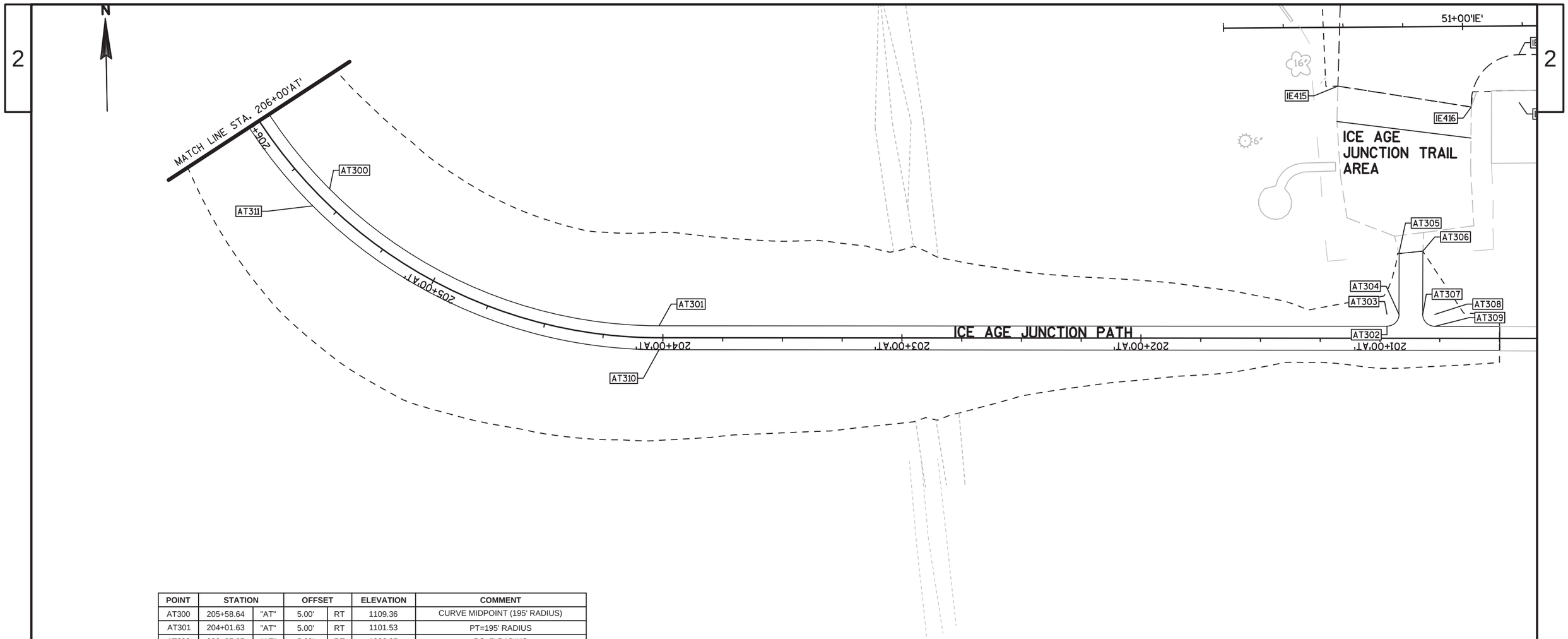
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\020202-PD_STAKE OUT.DWG
LAYOUT NAME - 021204

PLOT DATE : 10/27/2016 8:37 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

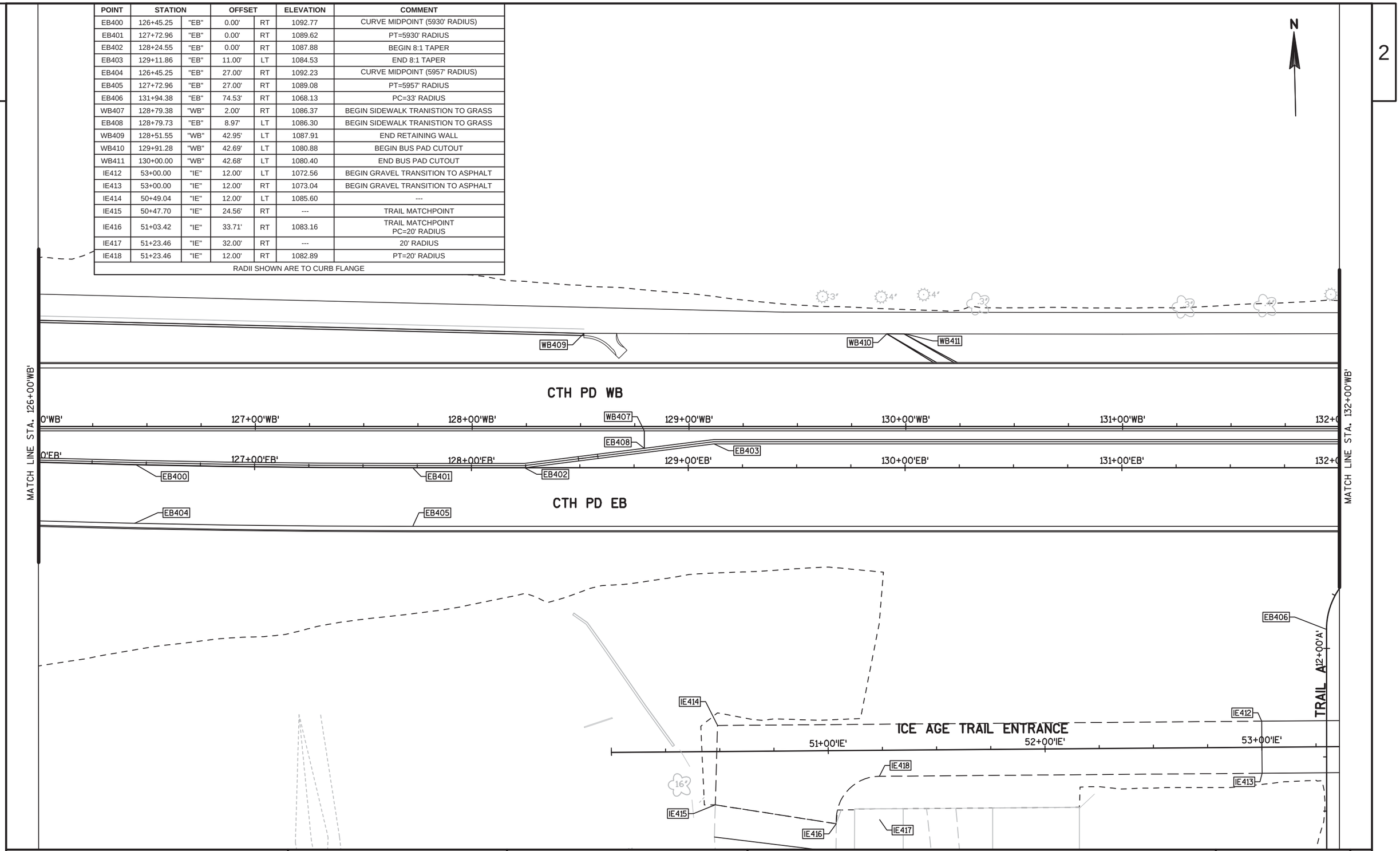
POINT	STATION		OFFSET		ELEVATION	COMMENT
EB200	122+62.12	"EB"	0.00'	RT	1092.26	PC=5930' RADIUS
EB201	123+89.83	"EB"	0.00'	RT	1094.09	CURVE MIDPOINT (5930' RADIUS)
EB202	125+17.54	"EB"	0.00'	RT	1094.26	PT=5930' RADIUS
EB203	122+62.12	"EB"	27.00'	RT	1091.72	PC=5903' RADIUS
EB204	123+89.83	"EB"	27.00'	RT	1093.55	CURVE MIDPOINT (5903' RADIUS)
EB205	125+17.54	"EB"	27.00'	RT	1093.72	PT=5903' RADIUS
DW206	12+29.20	"DW"	8.00'	RT	1090.97	PC=44' RADIUS
DW207	12+00.92	"DW"	8.00'	RT	1092.88	CURVE MIDPOINT (44' RADIUS)
DW208	11+72.63	"DW"	8.00'	RT	1095.91	PT=44' RADIUS
DW209	10+93.86	"DW"	8.00'	RT	1101.15	PC=25' RADIUS
DW210	10+93.86	"DW"	33.00'	RT	1097.97	25' RADIUS
DW211	10+22.21	"DW"	16.36'	RT	1103.31	PT=25' RADIUS DRIVEWAY MATCHPOINT
DW212	12+29.20	"DW"	9.25'	LT	1091.14	PC=27.25' RADIUS
DW213	12+29.20	"DW"	36.00'	LT	1091.53	27.25' RADIUS
DW214	11+72.63	"DW"	9.25'	LT	1096.08	PT=27.25' RADIUS
DW215	10+89.06	"DW"	8.75'	LT	1100.94	PC=44.75' RADIUS
DW216	10+71.30	"DW"	8.75'	LT	1101.94	CURVE MIDPOINT (44.75' RADIUS)
DW217	10+60.74	"DW"	8.75'	LT	1102.23	PT=44.75' RADIUS
DW218	10+53.54	"DW"	8.75'	LT	1101.93	PC=2.25' RADIUS
DW219	10+53.54	"DW"	18.00'	LT	1099.60	2.25' RADIUS
DW220	10+48.46	"DW"	12.18'	LT	1102.01	PT=2.25' RADIUS
DW221	10+30.67	"DW"	23.70'	LT	1102.27	PC=5' RADIUS
DW222	10+27.65	"DW"	23.34'	LT	1101.77	5' RADIUS
DW223	10+27.51	"DW"	18.34'	LT	1102.47	PT=5' RADIUS
AT224	215+98.63	"AT"	5.00'	LT	1086.56	PC=5' RADIUS
AT225	215+98.63	"AT"	10.00'	LT	1085.80	5' RADIUS
AT226	215+97.02	"AT"	14.73'	LT	1085.10	PT=5' RADIUS
AT227	215+90.44	"AT"	23.06'	LT	1085.13	PC=25' RADIUS
AT228	215+80.71	"AT"	16.97'	T	1085.71	CURVE MIDPOINT (25' RADIUS)
AT229	215+76.11	"AT"	10.54'	LT	1086.10	PT=25' RADIUS PC=10' RADIUS
AT230	215+67.16	"AT"	15.00'	LT	1086.04	10' RADIUS
AT231	215+67.16	"AT"	5.00'	LT	1086.66	PT=10' RADIUS
AT233	215+56.08	"AT"	5.00'	LT	1086.94	PC=62' RADIUS
AT234	215+45.19	"AT"	5.00'	LT	1087.34	CURVE MIDPOINT (62' RADIUS)
AT235	215+34.29	"AT"	5.00'	LT	1087.86	PC=62' RADIUS
ST236	30+55.20	"ST"	4.00'	RT	1112.77	CURVE MIDPOINT (44' RADIUS)
ST237	30+96.61	"ST"	4.00'	RT	1114.84	PT=44' RADIUS PC=41' RADIUS
ST238	30+96.61	"ST"	45.00'	RT	---	41' RADIUS
ST239	31+40.66	"ST"	4.00'	RT	1117.04	PT=41' RADIUS
ST240	31+56.17	"ST"	4.00'	RT	1117.81	PC=41' RADIUS
ST241	31+57.78	"ST"	4.00'	RT	1117.89	CURVE MIDPOINT (41' RADIUS)
ST242	31+59.40	"ST"	4.00'	RT	1117.87	PT=41' RADIUS
ST243	32+14.61	"ST"	4.00'	RT	1120.74	MULTIUSE PATH MATCHPOINT
ST244	32+14.61	"ST"	4.64'	LT	1120.61	MULTIUSE PATH MATCHPOINT
ST245	31+58.78	"ST"	4.00'	LT	1117.82	PC=49' RADIUS
ST246	31+27.70	"ST"	4.00'	LT	1116.27	CURVE MIDPOINT (49' RADIUS)
ST247	30+96.61	"ST"	4.00'	LT	1114.72	PT=49' RADIUS
ST248	30+14.91	"ST"	4.00'	LT	1110.63	PC=10' RADIUS
ST249	30+14.91	"ST"	14.00'	LT	1110.97	10' RADIUS
ST250	30+03.49	"ST"	11.32'	LT	1110.67	PT=10' RADIUS PC=55' RADIUS
RADII SHOWN ARE TO CURB FLANGE						

POINT	STATION		OFFSET		ELEVATION	COMMENT
AT251	209+09.87	"AT"	23.83'	LT	1112.58	55' RADIUS
AT252	209+01.10	"AT"	5.00'	LT	1112.00	PT=55' RADIUS
AT254	209+41.44	"AT"	15.73'	LT	1110.80	PC=44' RADIUS PC=10' RADIUS
AT255	209+49.34	"AT"	15.00'	LT	1109.49	10' RADIUS
AT256	209+49.34	"AT"	5.00'	LT	1109.59	PT=10' RADIUS PC=55' RADIUS
AT258	210+94.67	"AT"	5.00'	LT	1102.52	PT=55' RADIUS PC=5' RADIUS
AT259	210+94.67	"AT"	10.00'	LT	1103.23	5' RADIUS
AT260	210+97.61	"AT"	13.44'	LT	1102.17	PT=5' RADIUS
AT261	211+36.72	"AT"	5.00'	RT	1101.38	PC=45' RADIUS
AT262	209+01.10	"AT"	50.00'	RT	1104.70	55' RADIUS 45' RADIUS
AT263	209+01.10	"AT"	5.00'	RT	1111.85	PT=45' RADIUS
AT264	207+15.64	"AT"	5.00'	LT	1115.88	PC=205' RADIUS
AT265	207+15.64	"AT"	5.00'	RT	1115.73	PC=195' RADIUS
D266	31+82.46	"D"	3.00'	LT	1118.34	PC=13' RADIUS
D267	31+75.71	"D"	3.00'	LT	1118.79	CURVE MIDPOINT (13' RADIUS)
D268	31+68.95	"D"	3.00'	LT	1119.22	PT=13' RADIUS
D269	31+82.46	"D"	3.00'	RT	1118.22	PC=7' RADIUS
D270	31+82.46	"D"	10.00'	RT	1120.26	7' RADIUS
D271	31+68.95	"D"	3.00'	RT	1119.10	PT=7' RADIUS
DW272	10+22.21	"DW"	18.68'	LT	1102.61	DRIVEWAY MATCHPOINT
DW273	10+30.42	"DW"	27.57'	LT		BEGIN CURB AND GUTTER
DW274	10+41.36	"DW"	32.94'	LT	1101.79	---
DW275	12+40.04	"DW"	8.78'	LT	1090.67	END CURB AND GUTTER
DW276	12+40.09	"DW"	8.00'	RT	1091.11	---
D277	51+57.20	"D"	3.00'	LT	1113.33	BEGIN TRAIL
D278	51+57.20	"D"	3.00'	RT	1113.04	BEGIN TRAIL
D279	51+36.03	"D"	3.00'	LT	1114.13	PC=72' RADIUS
D280	51+14.19	"D"	3.00'	LT	1115.01	CURVE MIDPOINT (72' RADIUS)
D281	50+92.34	"D"	3.00'	LT	1115.90	PT=72' RADIUS
D282	50+59.97	"D"	3.00'	LT	1117.93	PC-23' RADIUS
D283	50+50.33	"D"	3.00'	LT	1118.81	CURVE MIDPOINT (23' RADIUS)
D284	50+40.69	"D"	3.00'	LT	1119.69	PT=23' RADIUS
D285	50+25.57	"D"	3.00'	LT	1121.06	TRAIL MATCHPOINT
D286	50+25.57	"D"	3.00'	RT	1119.55	TRAIL MATCHPOINT
D287	50+40.69	"D"	3.00'	RT	1119.57	PC=17' RADIUS
D288	50+50.33	"D"	3.00'	RT	1118.69	CURVE MIDPOINT (17' RADIUS)
D289	50+59.97	"D"	3.00'	RT	1117.81	PT=17' RADIUS
D290	50+92.34	"D"	3.00'	RT	1115.78	PC=78' RADIUS
D291	51+14.19	"D"	3.00'	RT	1114.89	CURVE MIDPOINT (78' RADIUS)
D292	51+36.03	"D"	3.00'	RT	1114.01	PT=78' RADIUS
D293	32+34.14	"D"	3.00'	LT	1115.00	BEGIN TRAIL
D294	32+34.14	"D"	3.00'	RT	1114.82	BEGIN TRAIL
AT295	214+13.85	"AT"	5.00'	LT	1093.87	---
AT296	213+13.70	"AT"	5.00'	LT	1098.76	---
AT297	211+45.72	"AT"	5.00'	RT	1101.23	---
RADII SHOWN ARE TO CURB FLANGE						

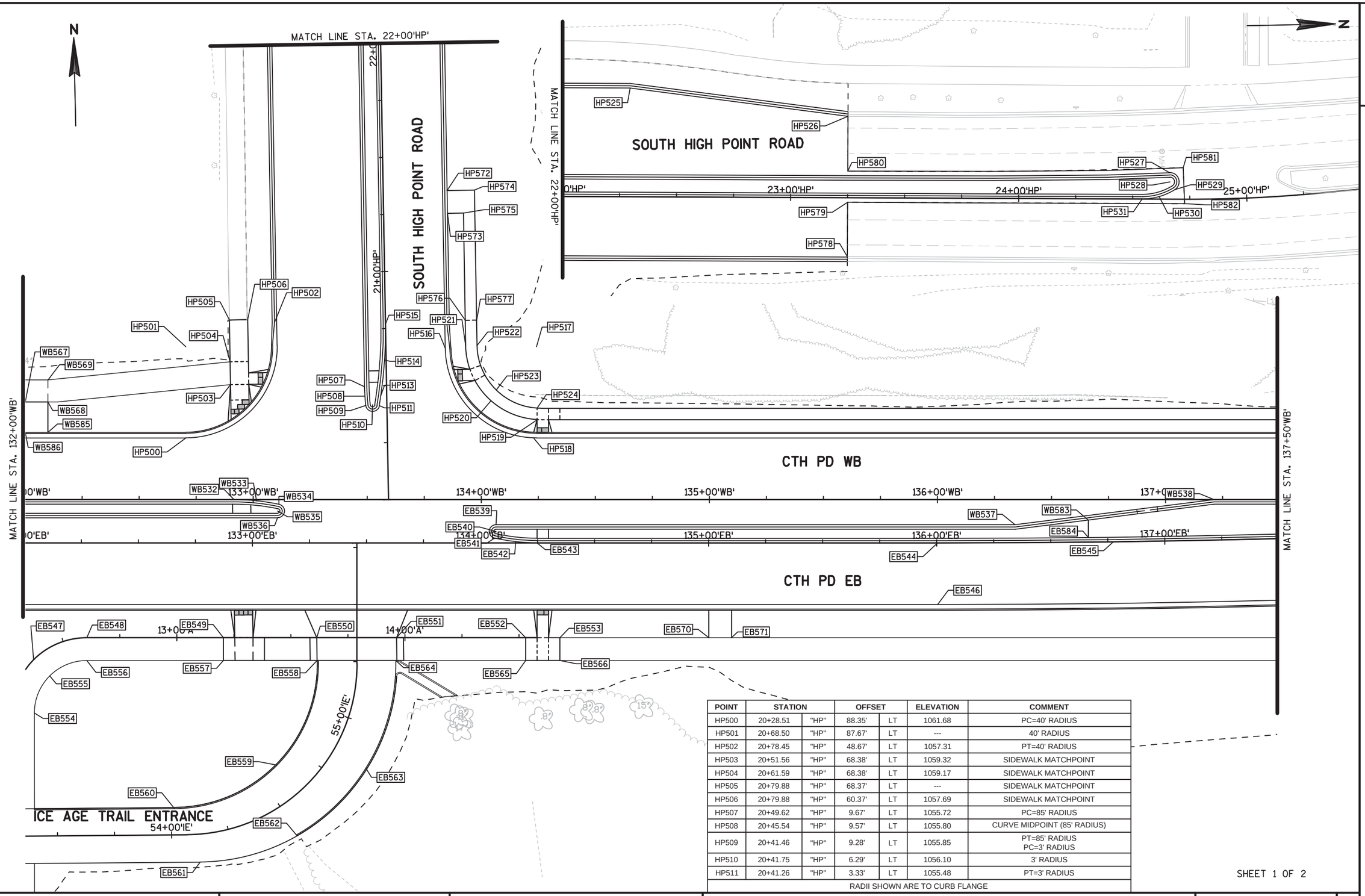


POINT	STATION		OFFSET		ELEVATION	COMMENT
AT300	205+58.64	"AT"	5.00'	RT	1109.36	CURVE MIDPOINT (195' RADIUS)
AT301	204+01.63	"AT"	5.00'	RT	1101.53	PT=195' RADIUS
AT302	200+97.07	"AT"	5.00'	RT	1086.35	PC=5' RADIUS
AT303	200+97.07	"AT"	10.00'	RT	1086.27	5' RADIUS
AT304	200+92.07	"AT"	10.00'	RT	1086.01	PT=5' RADIUS
AT305	200+92.07	"AT"	35.42'	RT	1084.82	PATH MATCHPOINT
AT306	200+82.12	"AT"	36.42'	RT	---	PATH MATCHPOINT
AT307	200+82.12	"AT"	10.00'	RT	1085.58	PC=5' RADIUS
AT308	200+77.12	"AT"	10.00'	RT	1085.28	5' RADIUS
AT309	200+77.12	"AT"	5.00'	RT	1085.35	PT=5' RADIUS
AT310	204+01.63	"AT"	5.00'	LT	1101.68	PT=205' RADIUS
AT311	205+58.64	"AT"	5.00'	LT	1109.51	CURVE MIDPOINT (205' RADIUS)
RADII SHOWN ARE TO CURB FLANGE						

POINT	STATION		OFFSET		ELEVATION	COMMENT
EB400	126+45.25	"EB"	0.00'	RT	1092.77	CURVE MIDPOINT (5930' RADIUS)
EB401	127+72.96	"EB"	0.00'	RT	1089.62	PT=5930' RADIUS
EB402	128+24.55	"EB"	0.00'	RT	1087.88	BEGIN 8:1 TAPER
EB403	129+11.86	"EB"	11.00'	LT	1084.53	END 8:1 TAPER
EB404	126+45.25	"EB"	27.00'	RT	1092.23	CURVE MIDPOINT (5957' RADIUS)
EB405	127+72.96	"EB"	27.00'	RT	1089.08	PT=5957' RADIUS
EB406	131+94.38	"EB"	74.53'	RT	1068.13	PC=33' RADIUS
WB407	128+79.38	"WB"	2.00'	RT	1086.37	BEGIN SIDEWALK TRANISTION TO GRASS
EB408	128+79.73	"EB"	8.97'	LT	1086.30	BEGIN SIDEWALK TRANISTION TO GRASS
WB409	128+51.55	"WB"	42.95'	LT	1087.91	END RETAINING WALL
WB410	129+91.28	"WB"	42.69'	LT	1080.88	BEGIN BUS PAD CUTOUT
WB411	130+00.00	"WB"	42.68'	LT	1080.40	END BUS PAD CUTOUT
IE412	53+00.00	"IE"	12.00'	LT	1072.56	BEGIN GRAVEL TRANSITION TO ASPHALT
IE413	53+00.00	"IE"	12.00'	RT	1073.04	BEGIN GRAVEL TRANSITION TO ASPHALT
IE414	50+49.04	"IE"	12.00'	LT	1085.60	---
IE415	50+47.70	"IE"	24.56'	RT	---	TRAIL MATCHPOINT
IE416	51+03.42	"IE"	33.71'	RT	1083.16	TRAIL MATCHPOINT PC=20' RADIUS
IE417	51+23.46	"IE"	32.00'	RT	---	20' RADIUS
IE418	51+23.46	"IE"	12.00'	RT	1082.89	PT=20' RADIUS
RADII SHOWN ARE TO CURB FLANGE						



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS - STAKEOUT DATA: CTH PD	SHEET 88	E



POINT	STATION		OFFSET		ELEVATION	COMMENT
HP500	20+28.51	"HP"	88.35'	LT	1061.68	PC=40' RADIUS
HP501	20+68.50	"HP"	87.67'	LT	---	40' RADIUS
HP502	20+78.45	"HP"	48.67'	LT	1057.31	PT=40' RADIUS
HP503	20+51.56	"HP"	68.38'	LT	1059.32	SIDEWALK MATCHPOINT
HP504	20+61.59	"HP"	68.38'	LT	1059.17	SIDEWALK MATCHPOINT
HP505	20+79.88	"HP"	68.37'	LT	---	SIDEWALK MATCHPOINT
HP506	20+79.88	"HP"	60.37'	LT	1057.69	SIDEWALK MATCHPOINT
HP507	20+49.62	"HP"	9.67'	LT	1055.72	PC=85' RADIUS
HP508	20+45.54	"HP"	9.57'	LT	1055.80	CURVE MIDPOINT (85' RADIUS)
HP509	20+41.46	"HP"	9.28'	LT	1055.85	PT=85' RADIUS PC=3' RADIUS
HP510	20+41.75	"HP"	6.29'	LT	1056.10	3' RADIUS
HP511	20+41.26	"HP"	3.33'	LT	1055.48	PT=3' RADIUS

RADII SHOWN ARE TO CURB FLANGE

SHEET 1 OF 2

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS - STAKEOUT DATA: CTH PD	SHEET 89	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\020202-PD_STAKE OUT.DWG
LAYOUT NAME - 021206

PLOT DATE : 10/28/2016 12:24 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

POINT	STATION		OFFSET		ELEVATION	COMMENT
HP513	20+45.61	"HP"	2.61'	LT	1055.32	PC=190' RADIUS
HP514	20+61.23	"HP"	0.65'	LT	1055.00	CURVE MIDPOINT (190' RADIUS)
HP515	20+76.96	"HP"	0.00'	RT	1054.73	PT=190' RADIUS
HP516	20+65.88	"HP"	26.00'	RT	1054.39	PC=40' RADIUS
HP517	20+65.88	"HP"	66.00'	RT	---	40' RADIUS
HP518	20+25.91	"HP"	64.05'	RT	1051.01	PT=40' RADIUS
HP519	20+33.80	"HP"	65.73'	RT	1051.08	PC=33' RADIUS
HP520	20+42.54	"HP"	45.69'	RT	1052.65	CURVE MIDPOINT (33' RADIUS)
HP521	20+66.85	"HP"	35.00'	RT	1054.14	PT=33' RADIUS
HP522	20+66.85	"HP"	40.00'	RT	1054.21	PC=28' RADIUS
HP523	20+47.22	"HP"	48.03'	RT	1052.85	CURVE MIDPOINT (28' RADIUS)
HP524	20+38.93	"HP"	65.85'	RT	1051.17	PT=28' RADIUS
HP525	22+29.46	"HP"	47.67'	LT	1048.22	BEGIN 9:1 TAPER
HP526	23+24.99	"HP"	35.68'	LT	1046.16	END 9:1 TAPER CURB AND GUTTER MATCHPOINT
HP527	24+66.17	"HP"	11.55'	LT	1045.79	PC=4' RADIUS
HP528	24+66.33	"HP"	7.55'	LT	1046.23	4' RADIUS
HP529	24+68.45	"HP"	4.16'	LT	1045.84	PT=4' RADIUS PC=27' RADIUS
HP530	24+61.58	"HP"	1.09'	LT	1045.92	CURVE MIDPOINT (27' RADIUS)
HP531	24+54.13	"HP"	0.03'	LT	1045.91	PT=27' RADIUS
WB532	132+91.55	"WB"	0.00'	RT	1060.74	PC=95' RADIUS
WB533	133+01.45	"WB"	0.52'	RT	1060.06	CURVE MIDPOINT (95' RADIUS)
WB534	133+11.25	"WB"	2.07'	RT	1059.40	PT=95' RADIUS PC=3' RADIUS
WB535	133+10.63	"WB"	5.00'	RT	1059.95	3' RADIUS
WB536	133+10.63	"WB"	8.00'	RT	1059.57	PT=3' RADIUS
WB537	136+33.96	"WB"	11.00'	RT	1036.99	BEGIN 8:1 TAPER
WB538	137+21.27	"WB"	0.00'	RT	1030.66	END 8:1 TAPER
EB539	134+06.81	"EB"	8.00'	LT	1052.92	PC=33' RADIUS
EB540	134+06.81	"EB"	5.00'	LT	1053.27	3' RADIUS
EB541	134+06.15	"EB"	2.07'	LT	1052.79	PT=3' RADIUS PC=85' RADIUS
EB542	134+15.42	"EB"	0.52'	LT	1052.11	CURVE MIDPOINT (85' RADIUS)
EB543	134+24.81	"EB"	0.00'	RT	1051.41	PT=85' RADIUS
EB544	136+00.36	"EB"	0.00'	RT	1039.13	PC=5930' RADIUS
EB545	136+77.37	"EB"	0.00'	RT	1033.73	CURVE MIDPOINT (5930' RADIUS)
EB546	136+00.36	"EB"	27.00'	RT	1038.59	PC=5957' RADIUS
EB547	132+04.04	"EB"	51.18'	RT	1066.84	CURVE MIDPOINT (33' RADIUS)
EB548	132+27.38	"EB"	41.50'	RT	1065.55	PT=33' RADIUS
RADII SHOWN ARE TO CURB FLANGE						

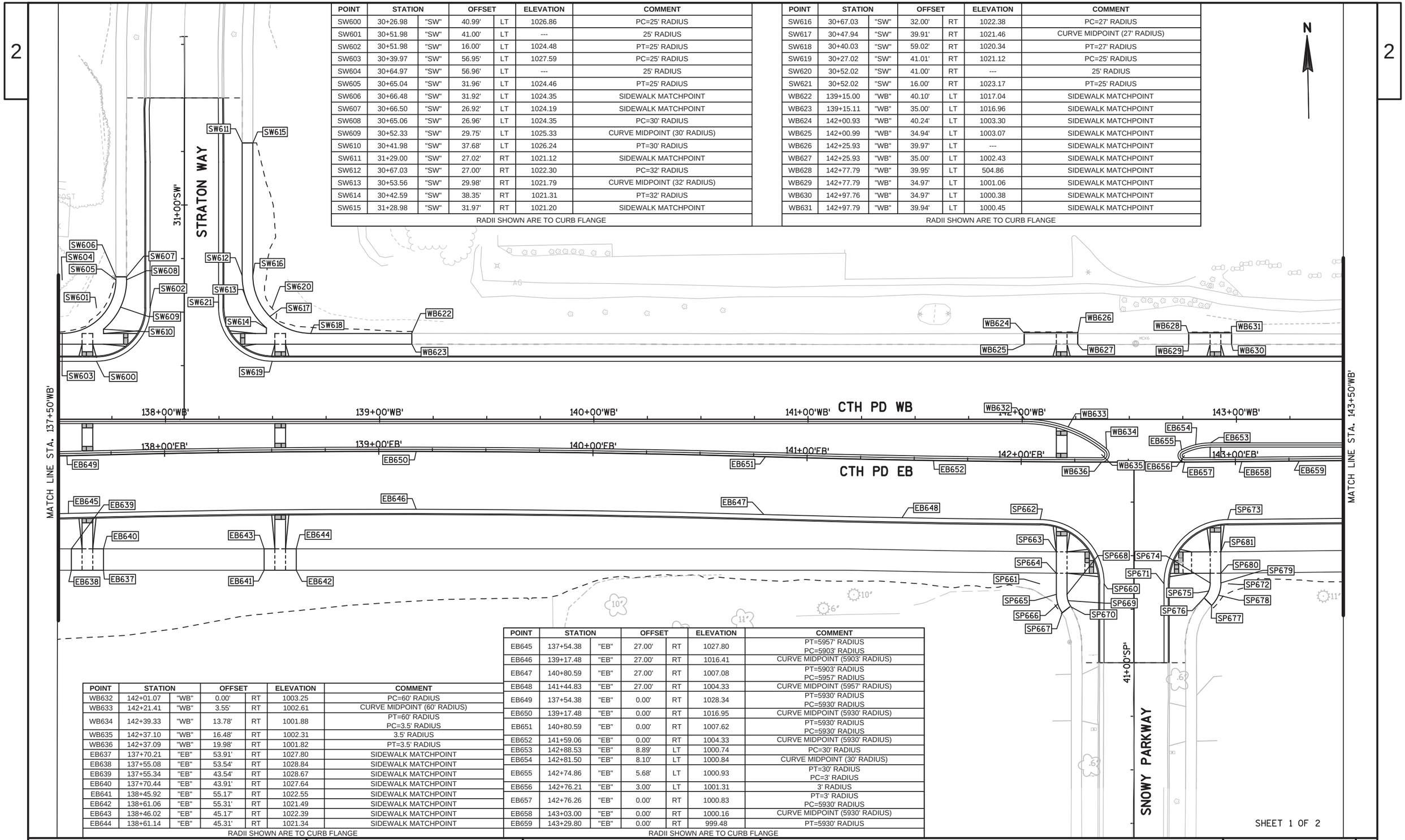
POINT	STATION		OFFSET		ELEVATION	COMMENT
EB549	132+87.24	"EB"	41.50'	RT	1061.30	SIDEWALK MATCHPOINT
EB550	133+28.18	"EB"	41.50'	RT	1058.60	SIDEWALK MATCHPOINT
EB551	133+63.18	"EB"	41.50'	RT	1056.15	SIDEWALK MATCHPOINT
EB552	134+19.81	"EB"	41.50'	RT	1052.08	SIDEWALK MATCHPOINT
EB553	134+34.81	"EB"	41.50'	RT	1051.03	SIDEWALK MATCHPOINT
EB554	132+04.38	"EB"	74.52'	RT	1068.28	PC=23' RADIUS
EB555	132+11.11	"EB"	58.24'	RT	1066.99	23' RADIUS
EB556	132+27.38	"EB"	51.50'	RT	1065.70	PT=23' RADIUS
EB557	132+87.24	"EB"	51.50'	RT	1061.45	SIDEWALK MATCHPOINT
EB558	133+28.34	"EB"	51.50'	RT	1058.74	PC=63.5' RADIUS
EB559	133+10.78	"EB"	97.35'	RT	1060.28	CURVE MIDPOINT (63.5' RADIUS)
EB560	132+65.86	"EB"	116.48'	RT	1064.46	PT=63.5' RADIUS
EB561	132+77.04	"EB"	139.89'	RT	1064.12	SIDEWALK MATCHPOINT
EB562	133+19.25	"EB"	128.00'	RT	1061.51	PC=86.5' RADIUS
EB563	133+49.70	"EB"	98.73'	RT	1059.11	CURVE MIDPOINT (86.5' RADIUS)
EB564	133+62.84	"EB"	51.50'	RT	1056.32	PT=86.5' RADIUS
EB565	134+19.81	"EB"	51.50'	RT	1052.23	SIDEWALK MATCHPOINT
EB566	134+34.81	"EB"	51.50'	RT	1051.18	SIDEWALK MATCHPOINT
WB567	132+00.00	"WB"	42.82'	LT	1067.18	BEGIN BUS PAD CUTOUT
WB568	132+10.00	"WB"	42.82'	LT	1066.48	END BUS PAD CUTOUT TERRACE TRANSITION TO NORMAL SLOPE
WB569	132+10.00	"WB"	52.49'	LT	1066.63	TERRACE TRANSITION TO NORMAL SLOPE
EB570	135+00.02	"EB"	41.50'	RT	1046.16	BEGIN BUS PAD CUTOUT
EB571	135+10.02	"EB"	41.50'	RT	1045.46	END BUS PAD CUTOUT
HP572	21+35.00	"HP"	28.00'	RT	1053.08	END BUS PAD CUTOUT
HP573	21+25.00	"HP"	28.00'	RT	1053.42	BEGIN BUS PAD CUTOUT
HP574	21+35.00	"HP"	40.00'	RT	1053.36	---
HP575	21+25.00	"HP"	35.00'	RT	1053.53	---
HP576	20+78.00	"HP"	35.00'	RT	1054.91	TERRACE TRANSITION TO NORMAL SLOPE
HP577	20+78.00	"HP"	40.00'	RT	1054.98	TERRACE TRANSITION TO NORMAL SLOPE
HP578	23+24.99	"HP"	26.00'	RT	1046.11	CURB AND GUTTER MATCHPOINT
HP579	23+25.00	"HP"	2.00'	RT	1046.58	PAVEMENT MATCHPOINT
HP580	23+24.99	"HP"	12.00'	LT	1046.64	PAVEMENT MATCHPOINT
HP581	24+72.08	"HP"	13.79'	LT	---	PAVEMENT MATCHPOINT
HP582	24+72.72	"HP"	2.00'	RT	---	PAVEMENT MATCHPOINT
WB583	136+66.08	"WB"	8.97'	RT	1035.10	BEGIN SIDEWALK TRANISTION TO GRASS
EB584	136+66.46	"EB"	2.10'	LT	1034.93	BEGIN SIDEWALK TRANISTION TO GRASS
WB585	132+10.00	"WB"	29.50'	LT	1066.29	END BUS PAD CUTOUT
WB586	132+00.00	"WB"	29.50'	LT	1066.99	BEGIN BUS PAD CUTOUT
RADII SHOWN ARE TO CURB FLANGE						

SHEET 2 OF 2

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS - STAKEOUT DATA: CTH PD	SHEET 90	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\020202-PD_STAKE OUT.DWG
LAYOUT NAME - 021206

PLOT DATE : 10/27/2016 8:38 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********



POINT	STATION		OFFSET		ELEVATION	COMMENT
SW600	30+26.98	"SW"	40.99'	LT	1026.86	PC=25' RADIUS
SW601	30+51.98	"SW"	41.00'	LT	---	25' RADIUS
SW602	30+51.98	"SW"	16.00'	LT	1024.48	PT=25' RADIUS
SW603	30+39.97	"SW"	56.95'	LT	1027.59	PC=25' RADIUS
SW604	30+64.97	"SW"	56.96'	LT	---	25' RADIUS
SW605	30+65.04	"SW"	31.96'	LT	1024.46	PT=25' RADIUS
SW606	30+66.48	"SW"	31.92'	LT	1024.35	SIDEWALK MATCHPOINT
SW607	30+66.50	"SW"	26.92'	LT	1024.19	SIDEWALK MATCHPOINT
SW608	30+65.06	"SW"	26.96'	LT	1024.35	PC=30' RADIUS
SW609	30+52.33	"SW"	29.75'	LT	1025.33	CURVE MIDPOINT (30' RADIUS)
SW610	30+41.98	"SW"	37.68'	LT	1026.24	PT=30' RADIUS
SW611	31+29.00	"SW"	27.02'	RT	1021.12	SIDEWALK MATCHPOINT
SW612	30+67.03	"SW"	27.00'	RT	1022.30	PC=32' RADIUS
SW613	30+53.56	"SW"	29.98'	RT	1021.79	CURVE MIDPOINT (32' RADIUS)
SW614	30+42.59	"SW"	38.35'	RT	1021.31	PT=32' RADIUS
SW615	31+28.98	"SW"	31.97'	RT	1021.20	SIDEWALK MATCHPOINT
RADII SHOWN ARE TO CURB FLANGE						

POINT	STATION		OFFSET		ELEVATION	COMMENT
SW616	30+67.03	"SW"	32.00'	RT	1022.38	PC=27' RADIUS
SW617	30+47.94	"SW"	39.91'	RT	1021.46	CURVE MIDPOINT (27' RADIUS)
SW618	30+40.03	"SW"	59.02'	RT	1020.34	PT=27' RADIUS
SW619	30+27.02	"SW"	41.01'	RT	1021.12	PC=25' RADIUS
SW620	30+52.02	"SW"	41.00'	RT	---	25' RADIUS
SW621	30+52.02	"SW"	16.00'	RT	1023.17	PT=25' RADIUS
WB622	139+15.00	"WB"	40.10'	LT	1017.04	SIDEWALK MATCHPOINT
WB623	139+15.11	"WB"	35.00'	LT	1016.96	SIDEWALK MATCHPOINT
WB624	142+00.93	"WB"	40.24'	LT	1003.30	SIDEWALK MATCHPOINT
WB625	142+00.99	"WB"	34.94'	LT	1003.07	SIDEWALK MATCHPOINT
WB626	142+25.93	"WB"	39.97'	LT	---	SIDEWALK MATCHPOINT
WB627	142+25.93	"WB"	35.00'	LT	1002.43	SIDEWALK MATCHPOINT
WB628	142+77.79	"WB"	39.95'	LT	504.86	SIDEWALK MATCHPOINT
WB629	142+77.79	"WB"	34.97'	LT	1001.06	SIDEWALK MATCHPOINT
WB630	142+97.76	"WB"	34.97'	LT	1000.38	SIDEWALK MATCHPOINT
WB631	142+97.79	"WB"	39.94'	LT	1000.45	SIDEWALK MATCHPOINT
RADII SHOWN ARE TO CURB FLANGE						

POINT	STATION		OFFSET		ELEVATION	COMMENT
WB632	142+01.07	"WB"	0.00'	RT	1003.25	PC=60' RADIUS
WB633	142+21.41	"WB"	3.55'	RT	1002.61	CURVE MIDPOINT (60' RADIUS)
WB634	142+39.33	"WB"	13.78'	RT	1001.88	PT=60' RADIUS PC=3.5' RADIUS
WB635	142+37.10	"WB"	16.48'	RT	1002.31	3.5' RADIUS
WB636	142+37.09	"WB"	19.98'	RT	1001.82	PT=3.5' RADIUS
EB637	137+70.21	"EB"	53.91'	RT	1027.80	SIDEWALK MATCHPOINT
EB638	137+55.08	"EB"	53.54'	RT	1028.84	SIDEWALK MATCHPOINT
EB639	137+55.34	"EB"	43.54'	RT	1028.67	SIDEWALK MATCHPOINT
EB640	137+70.44	"EB"	43.91'	RT	1027.64	SIDEWALK MATCHPOINT
EB641	138+45.92	"EB"	55.17'	RT	1022.55	SIDEWALK MATCHPOINT
EB642	138+61.06	"EB"	55.31'	RT	1021.49	SIDEWALK MATCHPOINT
EB643	138+46.02	"EB"	45.17'	RT	1022.39	SIDEWALK MATCHPOINT
EB644	138+61.14	"EB"	45.31'	RT	1021.34	SIDEWALK MATCHPOINT
RADII SHOWN ARE TO CURB FLANGE						

POINT	STATION		OFFSET		ELEVATION	COMMENT
EB645	137+54.38	"EB"	27.00'	RT	1027.80	PT=5957' RADIUS PC=5903' RADIUS
EB646	139+17.48	"EB"	27.00'	RT	1016.41	CURVE MIDPOINT (5903' RADIUS)
EB647	140+80.59	"EB"	27.00'	RT	1007.08	PT=5903' RADIUS PC=5957' RADIUS
EB648	141+44.83	"EB"	27.00'	RT	1004.33	CURVE MIDPOINT (5957' RADIUS)
EB649	137+54.38	"EB"	0.00'	RT	1028.34	PT=5930' RADIUS PC=5930' RADIUS
EB650	139+17.48	"EB"	0.00'	RT	1016.95	CURVE MIDPOINT (5930' RADIUS)
EB651	140+80.59	"EB"	0.00'	RT	1007.62	PT=5930' RADIUS PC=5930' RADIUS
EB652	141+59.06	"EB"	0.00'	RT	1004.33	CURVE MIDPOINT (5930' RADIUS)
EB653	142+88.53	"EB"	8.89'	LT	1000.74	PC=30' RADIUS
EB654	142+81.50	"EB"	8.10'	LT	1000.84	CURVE MIDPOINT (30' RADIUS)
EB655	142+74.86	"EB"	5.68'	LT	1000.93	PT=30' RADIUS PC=3' RADIUS
EB656	142+76.21	"EB"	3.00'	LT	1001.31	3' RADIUS
EB657	142+76.26	"EB"	0.00'	RT	1000.83	PT=3' RADIUS PC=5930' RADIUS
EB658	143+03.00	"EB"	0.00'	RT	1000.16	CURVE MIDPOINT (5930' RADIUS)
EB659	143+29.80	"EB"	0.00'	RT	999.48	PT=5930' RADIUS
RADII SHOWN ARE TO CURB FLANGE						

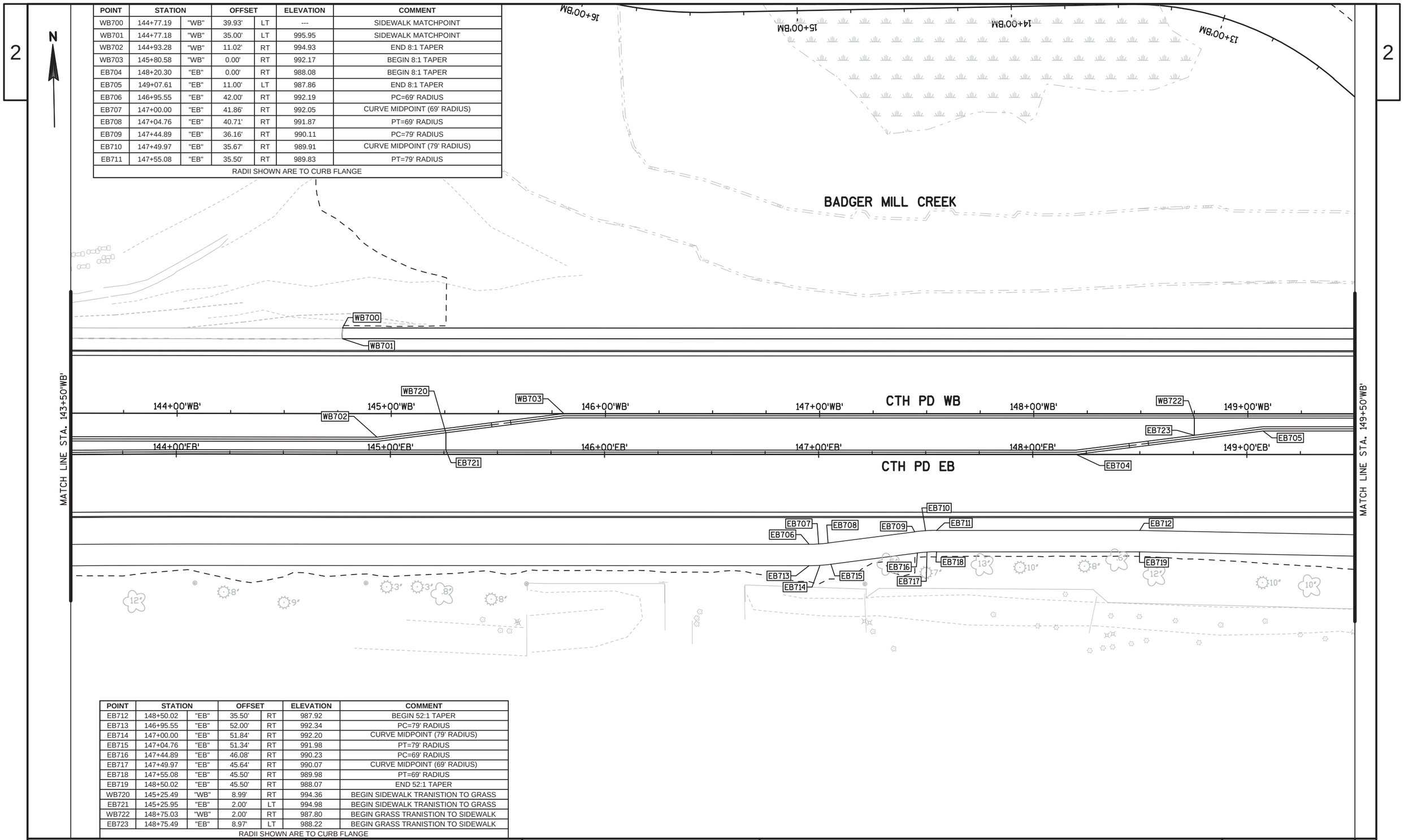
PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS - STAKEOUT DATA: CTH PD	SHEET 91	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\020202-PD_STAKE OUT.DWG
LAYOUT NAME - 021207
PLOT DATE : 10/27/2016 8:38 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

POINT	STATION		OFFSET		ELEVATION	COMMENT
SP660	41+36.82	"SP"	14.00'	LT	1000.69	PC=30' RADIUS
SP661	41+36.82	"SP"	44.00'	LT	1002.72	30' RADIUS
SP662	41+66.82	"SP"	43.79'	LT	1002.10	PT=30' RADIUS
SP663	41+51.77	"SP"	36.30'	LT	1001.37	SIDEWALK MATCHPOINT
SP664	41+41.77	"SP"	36.35'	LT	1001.52	SIDEWALK MATCHPOINT
SP665	41+31.90	"SP"	36.29'	LT	1002.01	PC=15' RADIUS
SP666	41+27.40	"SP"	35.59'	LT	1002.21	CURVE MIDPOINT (15' RADIUS)
SP667	41+23.29	"SP"	33.53'	LT	---	PT=15' RADIUS
SP668	41+31.91	"SP"	31.29'	LT	1001.94	PC=10' RADIUS
SP669	41+29.01	"SP"	30.86'	LT	1002.03	CURVE MIDPOINT (10' RADIUS)
SP670	41+26.13	"SP"	29.47'	LT	1002.08	PT=10' RADIUS
SP671	41+36.85	"SP"	14.00'	RT	1000.47	PC=30' RADIUS
SP672	41+36.85	"SP"	44.00'	RT	---	30' RADIUS
SP673	41+66.85	"SP"	43.77'	RT	999.79	PT=30' RADIUS
SP674	41+37.24	"SP"	35.57'	RT	1000.54	PC=10' RADIUS
SP675	41+33.49	"SP"	34.84'	RT	1000.63	CURVE MIDPOINT (10' RADIUS)
SP676	41+30.28	"SP"	32.75'	RT	1000.71	PT=10' RADIUS
SP677	41+26.71	"SP"	36.25'	RT	---	PC=15' RADIUS
SP678	41+31.57	"SP"	39.45'	RT	1000.84	CURVE MIDPOINT (15' RADIUS)
SP679	41+37.24	"SP"	40.57'	RT	1000.62	PT=15' RADIUS
SP680	41+41.83	"SP"	40.57'	RT	1000.52	SIDEWALK MATCHPOINT
SP681	41+51.83	"SP"	40.56'	RT	1000.37	SIDEWALK MATCHPOINT
RADII SHOWN ARE TO CURB FLANGE						

SHEET 2 OF 2

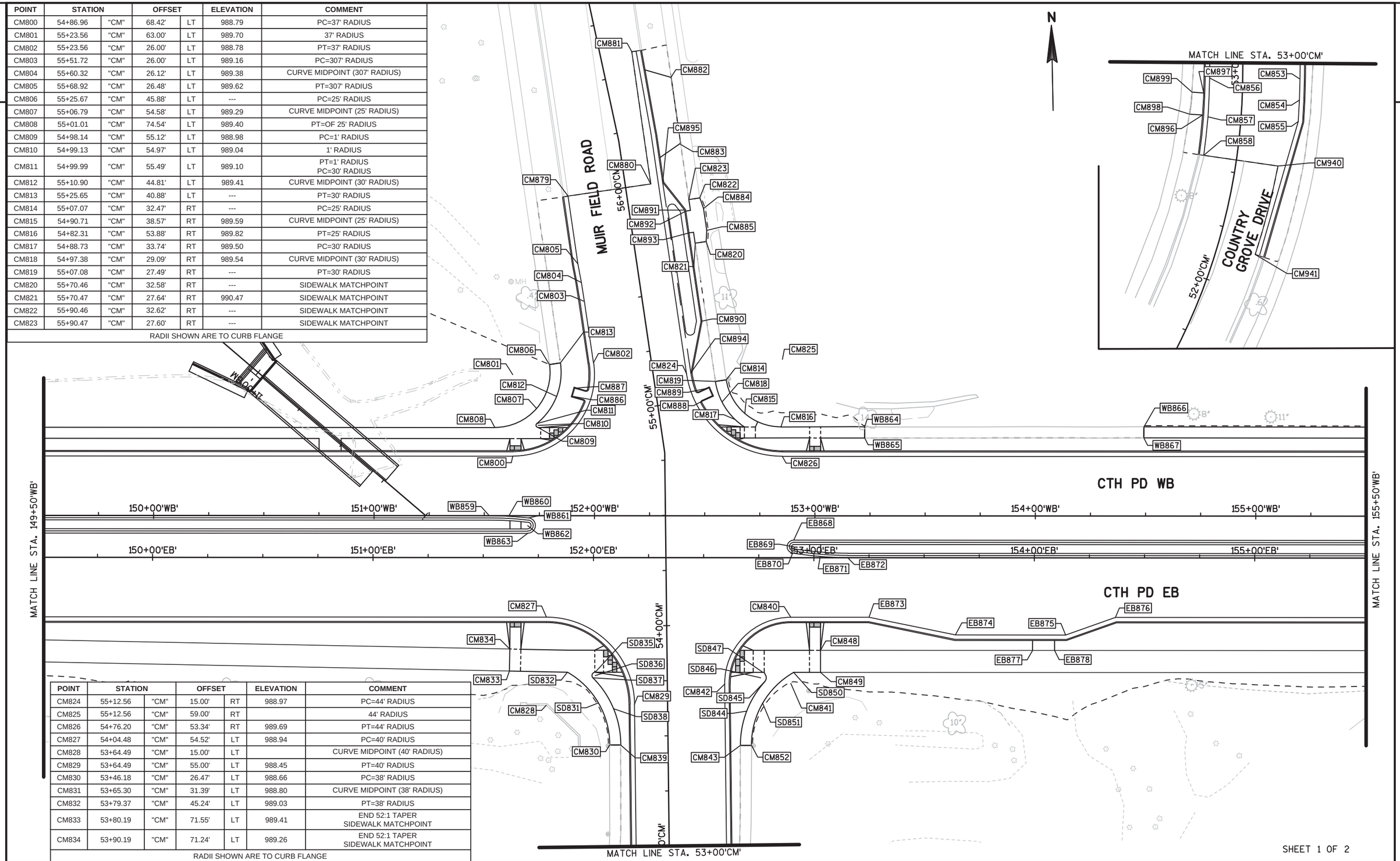
POINT	STATION		OFFSET		ELEVATION	COMMENT
WB700	144+77.19	"WB"	39.93'	LT	---	SIDEWALK MATCHPOINT
WB701	144+77.18	"WB"	35.00'	LT	995.95	SIDEWALK MATCHPOINT
WB702	144+93.28	"WB"	11.02'	RT	994.93	END 8:1 TAPER
WB703	145+80.58	"WB"	0.00'	RT	992.17	BEGIN 8:1 TAPER
EB704	148+20.30	"EB"	0.00'	RT	988.08	BEGIN 8:1 TAPER
EB705	149+07.61	"EB"	11.00'	LT	987.86	END 8:1 TAPER
EB706	146+95.55	"EB"	42.00'	RT	992.19	PC=69' RADIUS
EB707	147+00.00	"EB"	41.86'	RT	992.05	CURVE MIDPOINT (69' RADIUS)
EB708	147+04.76	"EB"	40.71'	RT	991.87	PT=69' RADIUS
EB709	147+44.89	"EB"	36.16'	RT	990.11	PC=79' RADIUS
EB710	147+49.97	"EB"	35.67'	RT	989.91	CURVE MIDPOINT (79' RADIUS)
EB711	147+55.08	"EB"	35.50'	RT	989.83	PT=79' RADIUS
RADII SHOWN ARE TO CURB FLANGE						



POINT	STATION		OFFSET		ELEVATION	COMMENT
EB712	148+50.02	"EB"	35.50'	RT	987.92	BEGIN 52:1 TAPER
EB713	146+95.55	"EB"	52.00'	RT	992.34	PC=79' RADIUS
EB714	147+00.00	"EB"	51.84'	RT	992.20	CURVE MIDPOINT (79' RADIUS)
EB715	147+04.76	"EB"	51.34'	RT	991.98	PT=79' RADIUS
EB716	147+44.89	"EB"	46.08'	RT	990.23	PC=69' RADIUS
EB717	147+49.97	"EB"	45.64'	RT	990.07	CURVE MIDPOINT (69' RADIUS)
EB718	147+55.08	"EB"	45.50'	RT	989.98	PT=69' RADIUS
EB719	148+50.02	"EB"	45.50'	RT	988.07	END 52:1 TAPER
WB720	145+25.49	"WB"	8.99'	RT	994.36	BEGIN SIDEWALK TRANISTION TO GRASS
EB721	145+25.95	"EB"	2.00'	LT	994.98	BEGIN SIDEWALK TRANISTION TO GRASS
WB722	148+75.03	"WB"	2.00'	RT	987.80	BEGIN GRASS TRANISTION TO SIDEWALK
EB723	148+75.49	"EB"	8.97'	LT	988.22	BEGIN GRASS TRANISTION TO SIDEWALK
RADII SHOWN ARE TO CURB FLANGE						

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS - STAKEOUT DATA: CTH PD	SHEET 93	E

POINT	STATION		OFFSET		ELEVATION	COMMENT
CM800	54+86.96	"CM"	68.42'	LT	988.79	PC=37' RADIUS
CM801	55+23.56	"CM"	63.00'	LT	989.70	37' RADIUS
CM802	55+23.56	"CM"	26.00'	LT	988.78	PT=37' RADIUS
CM803	55+51.72	"CM"	26.00'	LT	989.16	PC=307' RADIUS
CM804	55+60.32	"CM"	26.12'	LT	989.38	CURVE MIDPOINT (307' RADIUS)
CM805	55+68.92	"CM"	26.48'	LT	989.62	PT=307' RADIUS
CM806	55+25.67	"CM"	45.88'	LT	---	PC=25' RADIUS
CM807	55+06.79	"CM"	54.58'	LT	989.29	CURVE MIDPOINT (25' RADIUS)
CM808	55+01.01	"CM"	74.54'	LT	989.40	PT=OF 25' RADIUS
CM809	54+98.14	"CM"	55.12'	LT	988.98	PC=1' RADIUS
CM810	54+99.13	"CM"	54.97'	LT	989.04	1' RADIUS
CM811	54+99.99	"CM"	55.49'	LT	989.10	PT=1' RADIUS PC=30' RADIUS
CM812	55+10.90	"CM"	44.81'	LT	989.41	CURVE MIDPOINT (30' RADIUS)
CM813	55+25.65	"CM"	40.88'	LT	---	PT=30' RADIUS
CM814	55+07.07	"CM"	32.47'	RT	---	PC=25' RADIUS
CM815	54+90.71	"CM"	38.57'	RT	989.59	CURVE MIDPOINT (25' RADIUS)
CM816	54+82.31	"CM"	53.88'	RT	989.82	PT=25' RADIUS
CM817	54+88.73	"CM"	33.74'	RT	989.50	PC=30' RADIUS
CM818	54+97.38	"CM"	29.09'	RT	989.54	CURVE MIDPOINT (30' RADIUS)
CM819	55+07.08	"CM"	27.49'	RT	---	PT=30' RADIUS
CM820	55+70.46	"CM"	32.58'	RT	---	SIDEWALK MATCHPOINT
CM821	55+70.47	"CM"	27.64'	RT	990.47	SIDEWALK MATCHPOINT
CM822	55+90.46	"CM"	32.62'	RT	---	SIDEWALK MATCHPOINT
CM823	55+90.47	"CM"	27.60'	RT	---	SIDEWALK MATCHPOINT
RADII SHOWN ARE TO CURB FLANGE						



POINT	STATION		OFFSET		ELEVATION	COMMENT
CM824	55+12.56	"CM"	15.00'	RT	988.97	PC=44' RADIUS
CM825	55+12.56	"CM"	59.00'	RT		44' RADIUS
CM826	54+76.20	"CM"	53.34'	RT	989.69	PT=44' RADIUS
CM827	54+04.48	"CM"	54.52'	LT	988.94	PC=40' RADIUS
CM828	53+64.49	"CM"	15.00'	LT		CURVE MIDPOINT (40' RADIUS)
CM829	53+64.49	"CM"	55.00'	LT	988.45	PT=40' RADIUS
CM830	53+46.18	"CM"	26.47'	LT	988.66	PC=38' RADIUS
CM831	53+65.30	"CM"	31.39'	LT	988.80	CURVE MIDPOINT (38' RADIUS)
CM832	53+79.37	"CM"	45.24'	LT	989.03	PT=38' RADIUS
CM833	53+80.19	"CM"	71.55'	LT	989.41	END 52:1 TAPER SIDEWALK MATCHPOINT
CM834	53+90.19	"CM"	71.24'	LT	989.26	END 52:1 TAPER SIDEWALK MATCHPOINT
RADII SHOWN ARE TO CURB FLANGE						

SHEET 1 OF 2

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS - STAKEOUT DATA: CTH PD	SHEET 94	E

POINT	STATION		OFFSET		ELEVATION	COMMENT
CM835	53+79.22	"CM"	32.65'	LT	988.77	PC=1.5' RADIUS
CM836	53+77.72	"CM"	32.67'	LT	988.80	1.5' RADIUS
CM837	53+76.67	"CM"	33.74'	LT	988.84	PT=1.5' RADIUS PC=43' RADIUS
CM838	53+62.62	"CM"	24.57'	LT	988.76	CURVE MIDPOINT (43' RADIUS)
CM839	53+46.13	"CM"	21.49'	LT	988.58	PT=43' RADIUS
CM840	54+03.16	"CM"	56.36'	RT	989.73	PC=30' RADIUS
CM841	53+73.16	"CM"	56.00'	RT		30' RADIUS
CM842	53+73.16	"CM"	26.00'	RT	988.86	PT=30' RADIUS
CM843	53+45.30	"CM"	32.80'	RT	988.55	PC=43' RADIUS
CM844	53+60.78	"CM"	35.82'	RT	988.93	CURVE MIDPOINT (43' RADIUS)
CM845	53+74.13	"CM"	44.23'	RT	989.30	PT=43' RADIUS PC=2.5' RADIUS
CM846	53+75.83	"CM"	42.40'	RT	989.25	2.5' RADIUS
CM847	53+78.31	"CM"	43.38'	RT	989.35	PT=2.5' RADIUS
CM848	53+88.00	"CM"	69.68'	RT	990.31	SIDEWALK MATCHPOINT
CM849	53+78.00	"CM"	69.56'	RT	990.46	SIDEWALK MATCHPOINT
CM850	53+78.15	"CM"	57.35'	RT	990.02	PC=38' RADIUS
CM851	53+64.34	"CM"	43.13'	RT	989.26	CURVE MIDPOINT (38' RADIUS)
CM852	53+45.26	"CM"	37.80'	RT	---	PT=38' RADIUS
CM853	52+93.00	"CM"	25.76'	RT	986.24	PC=301' RADIUS
CM854	52+84.14	"CM"	26.00'	RT	986.09	CURVE MIDPOINT (301' RADIUS)
CM855	52+75.28	"CM"	26.00'	RT	985.86	PT=301' RADIUS
CM856	52+93.00	"CM"	15.00'	LT	986.54	PC=260' RADIUS
CM857	52+74.38	"CM"	15.00'	LT	985.06	CURVE MIDPOINT (260' RADIUS)
CM858	52+55.76	"CM"	15.00'	LT	985.53	PT=260' RADIUS
WB859	151+52.28	"WB"	0.00'	RT	989.25	PC=155' RADIUS
WB860	151+61.18	"WB"	0.00'	RT	989.32	CURVE MIDPOINT (155' RADIUS)
WB861	151+70.06	"WB"	1.02'	RT	989.41	PT=155' RADIUS PC=3.5' RADIUS
WB862	151+69.66	"WB"	4.50'	RT	989.96	3.5' RADIUS
WB863	151+69.66	"WB"	8.00'	RT	989.64	PT=3.5' RADIUS
WB864	153+22.57	"WB"	40.36'	LT	991.27	SIDEWALK MATCHPOINT
WB865	153+22.57	"WB"	35.31'	LT	991.16	SIDEWALK MATCHPOINT
WB866	154+49.22	"WB"	40.46'	LT	---	SIDEWALK MATCHPOINT
WB867	154+49.21	"WB"	35.46'	LT	994.34	SIDEWALK MATCHPOINT
RADII SHOWN ARE TO CURB FLANGE						

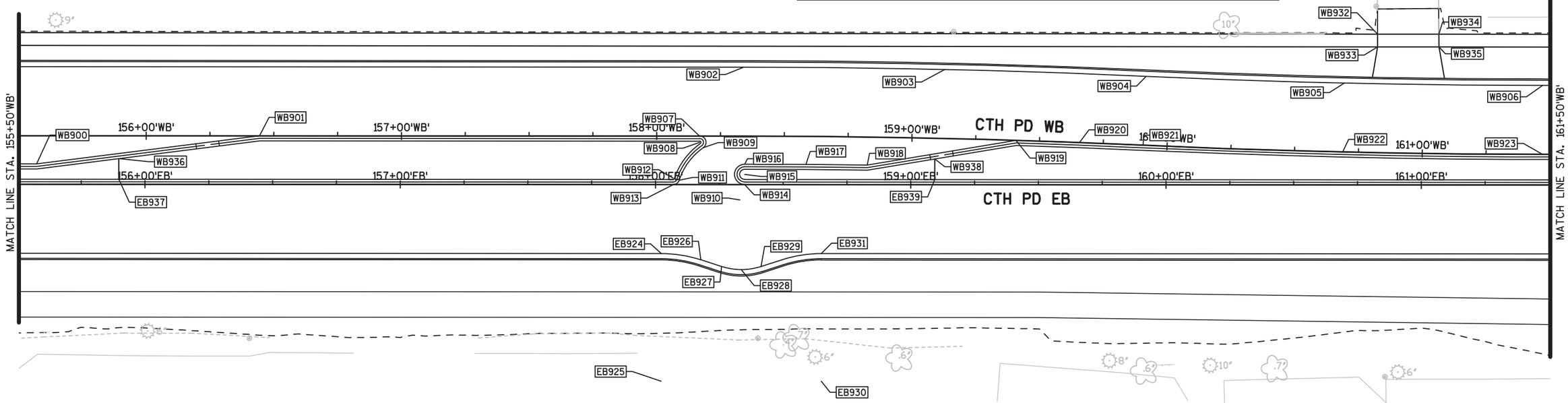
POINT	STATION		OFFSET		ELEVATION	COMMENT
EB868	152+90.85	"EB"	8.00'	LT	990.49	PC=3.5' RADIUS
EB869	152+90.85	"EB"	5.00'	LT	990.84	3.5' RADIUS
EB870	152+90.36	"EB"	2.04'	LT	990.33	PT=3.5' RADIUS PC=155' RADIUS
EB871	153+02.85	"EB"	0.51'	LT	990.40	CURVE MIDPOINT (155' RADIUS)
EB872	153+15.42	"EB"	0.00'	RT	990.52	PT=155' RADIUS
EB873	153+25.02	"EB"	27.00'	RT	990.10	BEGIN 5:1 TAPER
EB874	153+64.22	"EB"	35.00'	RT	990.53	END 5:1 TAPER
EB875	154+14.22	"EB"	35.00'	RT	991.56	BEGIN 3:1 TAPER
EB876	154+36.84	"EB"	27.00'	RT	992.29	END 3:1 TAPER
EB877	153+99.32	"EB"	42.00'	RT	991.66	BEGIN BUS PAD CUTOUT
EB878	154+09.22	"EB"	42.00'	RT	991.89	END BUS PAD CUTOUT
CM879	56+00.00	"CM"	26.41'	LT	990.51	PAVEMENT MATCHPOINT
CM880	56+00.00	"CM"	11.59'	RT	990.49	PAVEMENT MATCHPOINT
CM881	56+59.73	"CM"	14.32'	RT	---	PAVEMENT MATCHPOINT
CM882	56+44.59	"CM"	29.35'	RT	---	DRIVEWAY MATCHPOINT
CM883	56+15.78	"CM"	27.60'	RT	991.76	DRIVEWAY MATCHPOINT
CM884	55+85.46	"CM"	33.59'	RT	990.83	---
CM885	55+75.46	"CM"	33.58'	RT	990.63	---
CM886	55+09.88	"CM"	37.76'	LT	989.27	STORM SEWER INLET
CM887	55+13.89	"CM"	36.15'	LT	989.28	STORM SEWER INLET
CM888	55+00.87	"CM"	25.25'	RT	989.47	STORM SEWER INLET
CM889	55+04.54	"CM"	24.19'	RT	989.46	STORM SEWER INLET
CM890	55+35.01	"CM"	25.00'	RT	989.77	END 3:1 TAPER
CM891	55+86.01	"CM"	25.00'	RT	990.72	BEGIN 2:1 TAPER
CM892	55+85.48	"CM"	25.50'	RT	990.71	END BUS PAD CUTOUT
CM893	55+45.37	"CM"	25.49'	RT	990.51	BEGIN BUS PAD CUTOUT
CM894	55+12.36	"CM"	17.00'	RT	988.85	BEGIN 3:1 TAPER
CM895	55+85.96	"CM"	17.00'	RT	---	END 2:1 TAPER
CM896	52+75.00	"CM"	17.50'	LT	986.45	BEGIN BUS PAD CUTOUT
CM897	52+85.91	"CM"	17.50'	LT	986.73	END BUS PAD CUTOUT
CM898	52+75.00	"CM"	23.47'	LT	986.71	BEGIN BUS PAD CUTOUT
CM899	52+85.91	"CM"	22.88'	LT	986.99	END BUS PAD CUTOUT
CM940	52+55.76	"CM"	16.06'	RT	985.58	PAVEMENT MATCHPOINT
CM941	56+16.93	"CM"	17.49'	RT	984.77	PAVEMENT MATCHPOINT
RADII SHOWN ARE TO CURB FLANGE						

2

SHEET 2 OF 2

POINT	STATION		OFFSET		ELEVATION	COMMENT
WB900	155+57.09	"WB"	11.00'	RT	997.28	BEGIN 8:1 TAPER
WB901	156+44.40	"WB"	0.00'	RT	1001.11	END 8:1 TAPER
WB902	158+34.05	"WB"	27.00'	LT	1008.40	PC=3527' RADIUS
WB903	159+12.32	"WB"	27.00'	LT	1010.58	CURVE MIDPOINT (3527' RADIUS)
WB904	159+90.59	"WB"	27.00'	LT	1012.15	PT=3527' RADIUS PC=3473' RADIUS
WB905	160+68.86	"WB"	27.00'	LT	1013.08	CURVE MIDPOINT (3473' RADIUS)
WB906	161+47.13	"WB"	27.00'	LT	1013.52	PT=3473' RADIUS
WB907	158+16.80	"WB"	0.00'	RT	1008.37	PC=2.5' RADIUS
WB908	158+16.80	"WB"	2.50'	RT	1008.75	2.5' RADIUS
WB909	158+18.24	"WB"	4.55'	RT	1008.25	PT=2.5' RADIUS PC=25' RADIUS
WB910	158+32.62	"WB"	25.00'	RT	1008.59	25' RADIUS
WB911	158+08.84	"WB"	17.27'	RT	1007.92	PT=25' RADIUS PC=2.5' RADIUS
WB912	158+06.46	"WB"	16.50'	RT	1008.31	2.5' RADIUS
WB913	158+06.46	"WB"	19.00'	RT	1007.86	PT=2.5' RADIUS
WB914	158+34.46	"WB"	19.00'	RT	1008.77	PC=4' RADIUS
WB915	158+34.46	"WB"	15.00'	RT	1009.18	4' RADIUS
WB916	158+34.45	"WB"	11.00'	RT	1008.72	PT=4' RADIUS PC=3489' RADIUS
WB917	158+58.53	"WB"	11.00'	RT	1009.91	CURVE MIDPOINT (3489' RADIUS)
WB918	158+82.60	"WB"	11.00'	RT	1010.59	PT=3489' RADIUS
RADII SHOWN ARE TO CURB FLANGE						

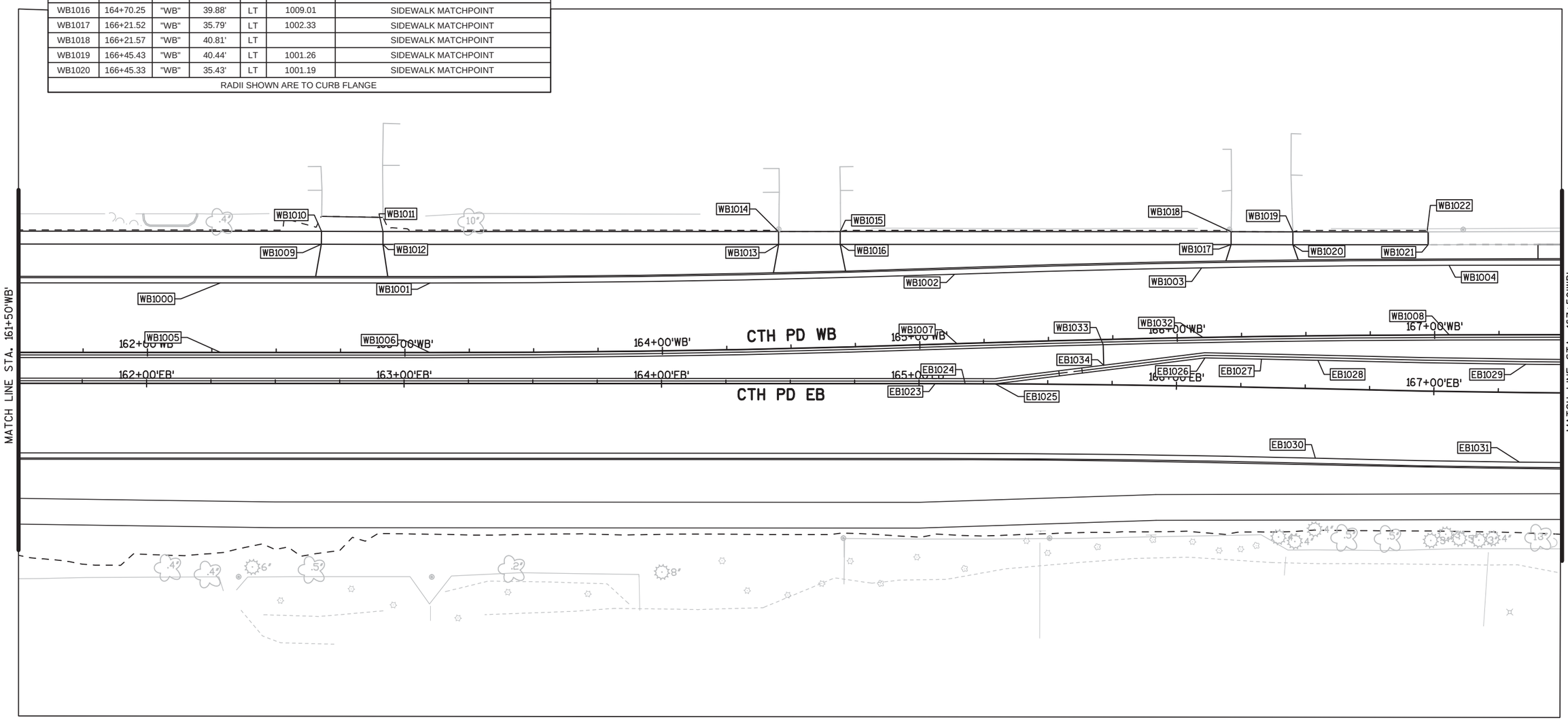
POINT	STATION		OFFSET		ELEVATION	COMMENT
WB919	159+40.73	"WB"	0.00'	RT	1011.76	PC=3500' RADIUS
WB920	159+65.66	"WB"	0.00'	RT	1012.26	CURVE MIDPOINT (3500' RADIUS)
WB921	159+90.59	"WB"	0.00'	RT	1012.69	PT=3500' RADIUS PC=3500' RADIUS
WB922	160+68.86	"WB"	0.00'	RT	1013.62	CURVE MIDPOINT (3500' RADIUS)
WB923	161+47.13	"WB"	0.00'	RT	1013.94	PT=3500' RADIUS
EB924	158+02.27	"EB"	27.00'	RT	1007.16	PC=50' RADIUS
EB925	158+02.27	"EB"	77.00'	RT	---	50' RADIUS
EB926	158+17.72	"EB"	29.45'	RT	1007.63	PT=50' RADIUS
EB927	158+25.88	"EB"	32.10'	RT	1007.84	PC=25' RADIUS
EB928	158+33.61	"EB"	8.32'	RT	1008.06	CURVE MIDPOINT (25' RADIUS)
EB929	158+41.33	"EB"	32.10'	RT	1008.32	PT=25' RADIUS PC=50' RADIUS
EB930	158+64.95	"EB"	77.00'	RT	---	50' RADIUS
EB931	158+64.95	"EB"	27.00'	RT	1009.11	PT=50' RADIUS
WB932	160+82.85	"WB"	59.00'	LT	1014.21	SIDEWALK MATCHPOINT
WB933	160+82.86	"WB"	54.00'	LT	1014.14	SIDEWALK MATCHPOINT
WB934	161+06.86	"WB"	59.00'	LT	1014.37	SIDEWALK MATCHPOINT
WB935	161+06.90	"WB"	54.02'	LT	1014.29	SIDEWALK MATCHPOINT
WB936	155+89.24	"WB"	8.97'	RT	999.06	BEGIN SIDEWALK TRANISTION TO GRASS
EB937	155+89.70	"EB"	2.00'	LT	998.81	BEGIN SIDEWALK TRANISTION TO GRASS
WB938	159+09.14	"WB"	8.14'	RT	1011.61	BEGIN SIDEWALK TRANISTION TO GRASS
EB939	159+09.41	"EB"	2.00'	LT	1011.23	BEGIN SIDEWALK TRANISTION TO GRASS
RADII SHOWN ARE TO CURB FLANGE						



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS - STAKEOUT DATA: CTH PD	SHEET 96	E

POINT	STATION		OFFSET		ELEVATION	COMMENT
WB1000	162+28.41	"WB"	27.00'	LT	1013.06	CURVE MIDPOINT (3473' RADIUS)
WB1001	163+09.68	"WB"	27.00'	LT	1012.05	PT=3473' RADIUS
WB1002	165+14.40	"WB"	27.00'	LT	1006.52	PC=5957' RADIUS
WB1003	166+10.02	"WB"	27.00'	LT	1002.47	CURVE MIDPOINT (5957' RADIUS)
WB1004	167+05.64	"WB"	27.00'	LT	997.72	PT=5957' RADIUS
WB1005	162+28.41	"WB"	0.00'	RT	1013.60	CURVE MIDPOINT (3500' RADIUS)
WB1006	163+09.68	"WB"	0.00'	RT	1012.59	PT=3500' RADIUS
WB1007	165+14.40	"WB"	0.00'	RT	1007.06	PC=5930' RADIUS
WB1008	167+05.64	"WB"	0.00'	RT	998.26	PT=5930' RADIUS
WB1009	162+67.51	"WB"	42.00'	LT	1013.66	SIDEWALK MATCHPOINT
WB1010	162+67.57	"WB"	47.00'	LT	1013.73	SIDEWALK MATCHPOINT
WB1011	162+91.43	"WB"	47.00'	LT	1013.41	SIDEWALK MATCHPOINT
WB1012	162+91.43	"WB"	42.00'	LT	1013.33	SIDEWALK MATCHPOINT
WB1013	164+46.04	"WB"	40.48'	LT	1009.73	SIDEWALK MATCHPOINT
WB1014	164+46.05	"WB"	45.48'	LT		SIDEWALK MATCHPOINT
WB1015	164+70.25	"WB"	44.88'	LT	1009.09	SIDEWALK MATCHPOINT
WB1016	164+70.25	"WB"	39.88'	LT	1009.01	SIDEWALK MATCHPOINT
WB1017	166+21.52	"WB"	35.79'	LT	1002.33	SIDEWALK MATCHPOINT
WB1018	166+21.57	"WB"	40.81'	LT		SIDEWALK MATCHPOINT
WB1019	166+45.43	"WB"	40.44'	LT	1001.26	SIDEWALK MATCHPOINT
WB1020	166+45.33	"WB"	35.43'	LT	1001.19	SIDEWALK MATCHPOINT
RADII SHOWN ARE TO CURB FLANGE						

POINT	STATION		OFFSET		ELEVATION	COMMENT
WB1021	166+97.56	"WB"	35.02'	LT	---	SIDEWALK MATCHPOINT
WB1022	166+97.24	"WB"	40.53'	LT	---	SIDEWALK MATCHPOINT
EB1023	165+06.27	"EB"	0.00'	RT	1006.54	PC=5930' RADIUS
EB1024	165+17.93	"EB"	0.00'	RT	1006.09	CURVE MIDPOINT (5930' RADIUS)
EB1025	165+29.59	"EB"	0.00'	RT	1005.63	PT=5930' RADIUS
EB1026	166+10.87	"EB"	11.00'	LT	1002.27	PC=5941' RADIUS
EB1027	166+32.76	"EB"	11.00'	LT	1001.19	CURVE MIDPOINT (5941' RADIUS)
EB1028	166+54.66	"EB"	11.00'	LT	1000.06	PT=5941' RADIUS PC=5919' RADIUS
EB1029	167+35.59	"EB"	11.00'	LT	996.28	CURVE MIDPOINT (5919' RADIUS)
EB1030	166+54.66	"EB"	27.00'	RT	999.30	PC=5957' RADIUS
EB1031	167+33.58	"EB"	27.00'	RT	995.58	CURVE MIDPOINT (5957' RADIUS)
WB1032	166+10.02	"WB"	0.00'	RT	1003.01	CURVE MIDPOINT (5930' RADIUS)
WB1033	165+71.20	"WB"	2.00'	RT	1005.20	BEGIN GRASS TRANISTION TO SIDEWALK
EB1034	165+71.66	"EB"	7.57'	LT	1004.41	BEGIN GRASS TRANISTION TO SIDEWALK
RADII SHOWN ARE TO CURB FLANGE						



2

POINT	STATION		OFFSET		ELEVATION	COMMENT
TD1100	72+75.18	"TD"	58.19'	LT	---	PC=22' RADIUS
TD1101	72+81.59	"TD"	38.90'	LT	992.76	22' RADIUS
TD1102	72+96.79	"TD"	32.29'	LT	992.11	PT=22' RADIUS
TD1103	72+98.42	"TD"	32.25'	LT	993.48	SIDEWALK MATCHPOINT
TD1104	72+70.43	"TD"	58.16'	LT	992.77	SIDEWALK MATCHPOINT
TD1105	72+76.16	"TD"	37.50'	LT	992.41	PC=27' RADIUS
TD1106	72+85.28	"TD"	30.11'	LT	---	CURVE MIDPOINT (27' RADIUS)
TD1107	72+98.46	"TD"	27.25'	LT	993.08	PT=27' RADIUS
TD1108	72+62.33	"TD"	45.82'	LT	---	PC=30' RADIUS
TD1109	72+92.33	"TD"	45.87'	LT	---	30' RADIUS
TD1110	72+99.93	"TD"	15.90'	LT	9913.12	PT=30' RADIUS
TD1111	72+75.36	"TD"	34.63'	RT	991.16	PC=1' RADIUS
TD1112	72+76.36	"TD"	34.63'	RT	991.18	1' RADIUS
TD1113	72+77.09	"TD"	35.31'	RT	991.52	PT=1' RADIUS PC=25' RADIUS
TD1114	72+85.11	"TD"	29.57'	RT	991.52	CURVE MIDPOINT (25' RADIUS)
TD1115	72+94.73	"TD"	27.37'	RT	991.90	PT=25' RADIUS
TD1116	72+94.86	"TD"	32.88'	RT	991.95	PC=20' RADIUS
TD1117	72+81.05	"TD"	38.41'	RT	991.28	CURVE MIDPOINT (20' RADIUS)
TD1118	72+75.37	"TD"	52.37'	RT	990.90	PT=20' RADIUS
TD1119	72+99.88	"TD"	15.95'	RT	991.07	PT=30' RADIUS
TD1120	72+92.49	"TD"	46.13'	RT	---	30' RADIUS
TD1121	72+62.49	"TD"	46.18'	RT	990.66	PT=30' RADIUS
WB1122	172+11.56	"WB"	0.00'	RT	990.66	BEGIN 8:1 TAPER
WB1123	171+24.25	"WB"	11.00'	RT	989.90	END 8:1 TAPER
RADII SHOWN ARE TO CURB FLANGE						

POINT	STATION		OFFSET		ELEVATION	COMMENT
WB1124	168+09.16	"WB"	0.00'	RT	994.08	PC=80' RADIUS
WB1125	168+18.41	"WB"	0.54'	RT	993.79	CURVE MIDPOINT (80' RADIUS)
WB1126	168+27.52	"WB"	2.14'	RT	993.53	PT=80' RADIUS PC=5' RADIUS
WB1127	168+26.38	"WB"	7.00'	RT	993.79	5' RADIUS
WB1128	168+26.38	"WB"	12.00'	RT	993.16	PT=5' RADIUS
TD1129	71+45.45	"TD"	16.00'	LT	990.50	PT=35' RADIUS
TD1130	71+45.45	"TD"	51.00'	LT	---	35' RADIUS
TD1131	71+80.31	"TD"	54.18'	LT	992.65	PT=5957' RADIUS PC=35' RADIUS
TD1132	71+69.24	"TD"	47.77'	LT	991.98	SIDEWALK MATCHPOINT
TD1133	71+59.23	"TD"	46.84'	LT	991.84	SIDEWALK MATCHPOINT
TD1134	71+30.00	"TD"	32.17'	LT	---	SIDEWALK MATCHPOINT
TD1135	71+30.02	"TD"	27.00'	LT	990.12	SIDEWALK MATCHPOINT
RADII SHOWN ARE TO CURB FLANGE						

POINT	STATION		OFFSET		ELEVATION	COMMENT
TD1136	71+59.42	"TD"	16.00'	RT	990.14	BEGIN 30' RADIUS
TD1137	71+59.42	"TD"	46.00'	RT		30' RADIUS
TD1138	71+89.30	"TD"	43.34'	RT	990.10	PT=30' RADIUS PC=5957' RADIUS
TD1139	71+66.41	"TD"	30.82'	RT	990.22	PC=1.5' RADIUS
TD1140	71+64.95	"TD"	31.36'	RT	990.17	1.5' RADIUS
TD1141	71+64.01	"TD"	32.53'	RT	990151.00	PT=1.5' RADIUS PC=25' RADIUS
TD1142	71+56.60	"TD"	28.39'	RT	990.04	CURVE MIDPOINT (25' RADIUS)
TD1143	71+48.24	"TD"	26.96'	RT	989.98	PT=25' RADIUS
TD1144	71+39.99	"TD"	26.98'	RT	989.92	SIDEWALK MATCHPOINT
TD1145	71+40.00	"TD"	31.96'	RT	989.99	SIDEWALK MATCHPOINT
TD1146	71+48.25	"TD"	31.96'	RT	990.07	PC=20' RADIUS
TD1147	71+61.97	"TD"	37.37'	RT	990.22	CURVE MIDPOINT (20' RADIUS)
TD1148	71+68.25	"TD"	50.71'	RT	990.35	PT=20' RADIUS
TD1149	71+69.01	"TD"	58.95'	RT	990.41	SIDEWALK MATCHPOINT
TD1150	71+78.97	"TD"	58.04'	RT	990.26	SIDEWALK MATCHPOINT
RADII SHOWN ARE TO CURB FLANGE						

SHEET 1 OF 2

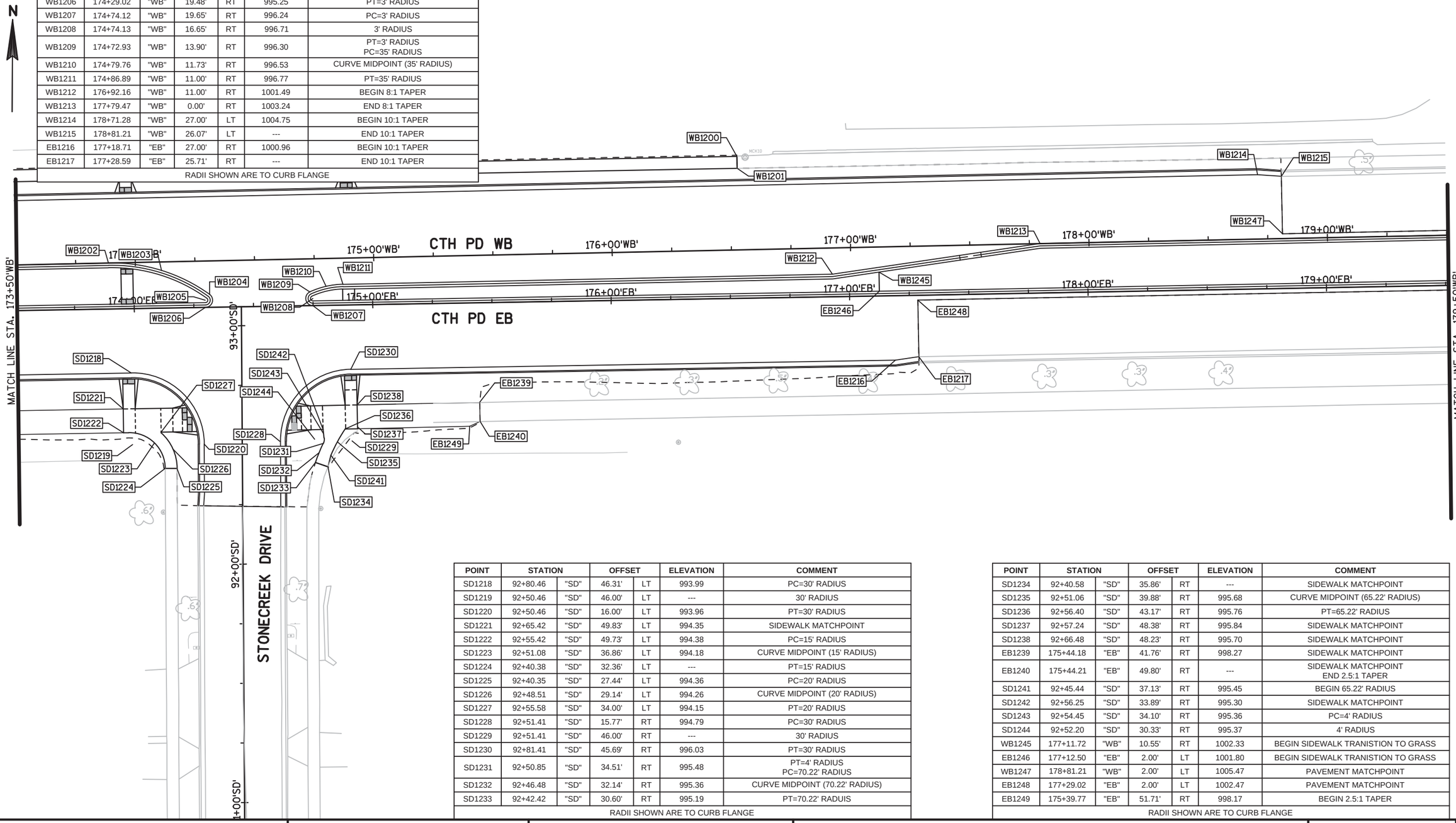
PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS - STAKEOUT DATA: CTH PD	SHEET 98	E

2

POINT	STATION		OFFSET		ELEVATION	COMMENT
EB1151	169+14.21	"EB"	12.00'	LT	991.04	PC=5' RADIUS
EB1152	169+14.21	"EB"	7.00'	LT	991.30	5' RADIUS
EB1153	169+13.06	"EB"	2.13'	LT	990.69	PT=5' RADIUS PC=80' RADIUS
EB1154	169+22.20	"EB"	0.53'	LT	990.64	CURVE MIDPOINT (80' RADIUS)
EB1155	169+31.45	"EB"	0.00'	RT	990.25	PT=80' RADIUS PC=5930' RADIUS
EB1156	170+06.98	"EB"	0.00'	RT	989.31	CURVE MIDPOINT (5930' RADIUS)
EB1157	170+82.51	"EB"	0.00'	RT	989.08	PT=5930' RADIUS PC=5930' RADIUS
EB1158	171+59.52	"EB"	0.00'	RT	989.60	CURVE MIDPOINT (5930' RADIUS)
EB1159	172+36.53	"EB"	0.00'	RT	990.87	PT=5930' RADIUS
EB1160	169+96.51	"EB"	27.00'	RT	988.85	CURVE MIDPOINT (5957' RADIUS)
EB1161	170+82.51	"EB"	27.00'	RT	988.50	PT=5957' RADIUS PC=5903' RADIUS
EB1162	171+59.52	"EB"	27.00'	RT	898.06	CURVE MIDPOINT (5903' RADIUS)
EB1163	172+36.53	"EB"	27.00'	RT	990.32	PT=5903' RADIUS
WB1164	168+16.16	"WB"	12.00'	RT	993.46	PT=5919' RADIUS
WB1165	171+56.37	"WB"	8.97'	RT	990.50	BEGIN SIDEWALK TRANISTION TO GRASS
EB1166	171+56.90	"EB"	2.00'	LT	990.01	BEGIN SIDEWALK TRANISTION TO GRASS
EB1167	71+44.10	"TD"	32.00'	LT	990.85	---
EB1168	71+45.45	"TD"	27.00'	LT	990.85	---
EB1169	170+00.02	"EB"	39.08'	LT	989.34	BEGIN BUS PAD CUTOUT
EB1170	170+10.03	"EB"	39.13'	LT	989.26	END BUS PAD CUTOUT
EB1171	172+41.72	"EB"	54.76'	RT	990.98	DRIVEWAY MATCHPOINT
EB1172	172+54.72	"EB"	54.76'	RT	991.15	DRIVEWAY MATCHPOINT
EB1173	172+41.72	"EB"	42.76'	RT	990.83	---
EB1174	172+54.72	"EB"	42.76'	RT	991.13	---
RADII SHOWN ARE TO CURB FLANGE						

SHEET 2 OF 2

POINT	STATION		OFFSET		ELEVATION	COMMENT
WB1200	176+53.17	"WB"	39.20'	LT	---	SIDEWALK MATCHPOINT
WB1201	176+53.14	"WB"	34.20'	LT	1001.23	SIDEWALK MATCHPOINT
WB1202	173+88.73	"WB"	0.00'	RT	994.50	PC=70' RADIUS
WB1203	174+10.93	"WB"	3.61'	RT	994.96	CURVE MIDPOINT (70' RADIUS)
WB1204	174+30.83	"WB"	14.08'	RT	995.34	PT=70' RADIUS PC=3' RADIUS
WB1205	174+29.03	"WB"	16.48'	RT	995.72	3' RADIUS
WB1206	174+29.02	"WB"	19.48'	RT	995.25	PT=3' RADIUS
WB1207	174+74.12	"WB"	19.65'	RT	996.24	PC=3' RADIUS
WB1208	174+74.13	"WB"	16.65'	RT	996.71	3' RADIUS
WB1209	174+72.93	"WB"	13.90'	RT	996.30	PT=3' RADIUS PC=35' RADIUS
WB1210	174+79.76	"WB"	11.73'	RT	996.53	CURVE MIDPOINT (35' RADIUS)
WB1211	174+86.89	"WB"	11.00'	RT	996.77	PT=35' RADIUS
WB1212	176+92.16	"WB"	11.00'	RT	1001.49	BEGIN 8:1 TAPER
WB1213	177+79.47	"WB"	0.00'	RT	1003.24	END 8:1 TAPER
WB1214	178+71.28	"WB"	27.00'	LT	1004.75	BEGIN 10:1 TAPER
WB1215	178+81.21	"WB"	26.07'	LT	---	END 10:1 TAPER
EB1216	177+18.71	"EB"	27.00'	RT	1000.96	BEGIN 10:1 TAPER
EB1217	177+28.59	"EB"	25.71'	RT	---	END 10:1 TAPER
RADII SHOWN ARE TO CURB FLANGE						



POINT	STATION		OFFSET		ELEVATION	COMMENT
SD1218	92+80.46	"SD"	46.31'	LT	993.99	PC=30' RADIUS
SD1219	92+50.46	"SD"	46.00'	LT	---	30' RADIUS
SD1220	92+50.46	"SD"	16.00'	LT	993.96	PT=30' RADIUS
SD1221	92+65.42	"SD"	49.83'	LT	994.35	SIDEWALK MATCHPOINT
SD1222	92+55.42	"SD"	49.73'	LT	994.38	PC=15' RADIUS
SD1223	92+51.08	"SD"	36.86'	LT	994.18	CURVE MIDPOINT (15' RADIUS)
SD1224	92+40.38	"SD"	32.36'	LT	---	PT=15' RADIUS
SD1225	92+40.35	"SD"	27.44'	LT	994.36	PC=20' RADIUS
SD1226	92+48.51	"SD"	29.14'	LT	994.26	CURVE MIDPOINT (20' RADIUS)
SD1227	92+55.58	"SD"	34.00'	LT	994.15	PT=20' RADIUS
SD1228	92+51.41	"SD"	15.77'	RT	994.79	PC=30' RADIUS
SD1229	92+51.41	"SD"	46.00'	RT	---	30' RADIUS
SD1230	92+81.41	"SD"	45.69'	RT	996.03	PT=30' RADIUS
SD1231	92+50.85	"SD"	34.51'	RT	995.48	PT=4' RADIUS PC=70.22' RADIUS
SD1232	92+46.48	"SD"	32.14'	RT	995.36	CURVE MIDPOINT (70.22' RADIUS)
SD1233	92+42.42	"SD"	30.60'	RT	995.19	PT=70.22' RADUIS
RADII SHOWN ARE TO CURB FLANGE						

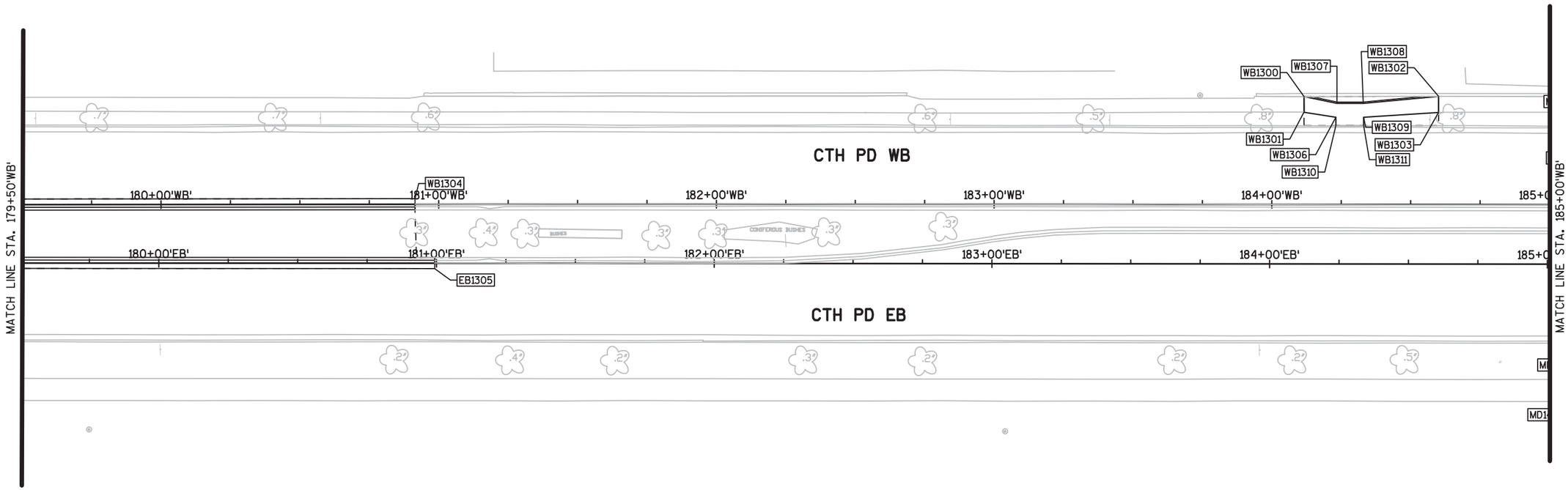
POINT	STATION		OFFSET		ELEVATION	COMMENT
SD1234	92+40.58	"SD"	35.86'	RT	---	SIDEWALK MATCHPOINT
SD1235	92+51.06	"SD"	39.88'	RT	995.68	CURVE MIDPOINT (65.22' RADIUS)
SD1236	92+56.40	"SD"	43.17'	RT	995.76	PT=65.22' RADIUS
SD1237	92+57.24	"SD"	48.38'	RT	995.84	SIDEWALK MATCHPOINT
SD1238	92+66.48	"SD"	48.23'	RT	995.70	SIDEWALK MATCHPOINT
EB1239	175+44.18	"EB"	41.76'	RT	998.27	SIDEWALK MATCHPOINT
EB1240	175+44.21	"EB"	49.80'	RT	---	SIDEWALK MATCHPOINT END 2.5:1 TAPER
SD1241	92+45.44	"SD"	37.13'	RT	995.45	BEGIN 65.22' RADIUS
SD1242	92+56.25	"SD"	33.89'	RT	995.30	SIDEWALK MATCHPOINT
SD1243	92+54.45	"SD"	34.10'	RT	995.36	PC=4' RADIUS
SD1244	92+52.20	"SD"	30.33'	RT	995.37	4' RADIUS
WB1245	177+11.72	"WB"	10.55'	RT	1002.33	BEGIN SIDEWALK TRANISTION TO GRASS
EB1246	177+12.50	"EB"	2.00'	LT	1001.80	BEGIN SIDEWALK TRANISTION TO GRASS
WB1247	178+81.21	"WB"	2.00'	LT	1005.47	PAVEMENT MATCHPOINT
EB1248	177+29.02	"EB"	2.00'	LT	1002.47	PAVEMENT MATCHPOINT
EB1249	175+39.77	"EB"	51.71'	RT	998.17	BEGIN 2.5:1 TAPER
RADII SHOWN ARE TO CURB FLANGE						

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS - STAKEOUT DATA: CTH PD	SHEET 100	E

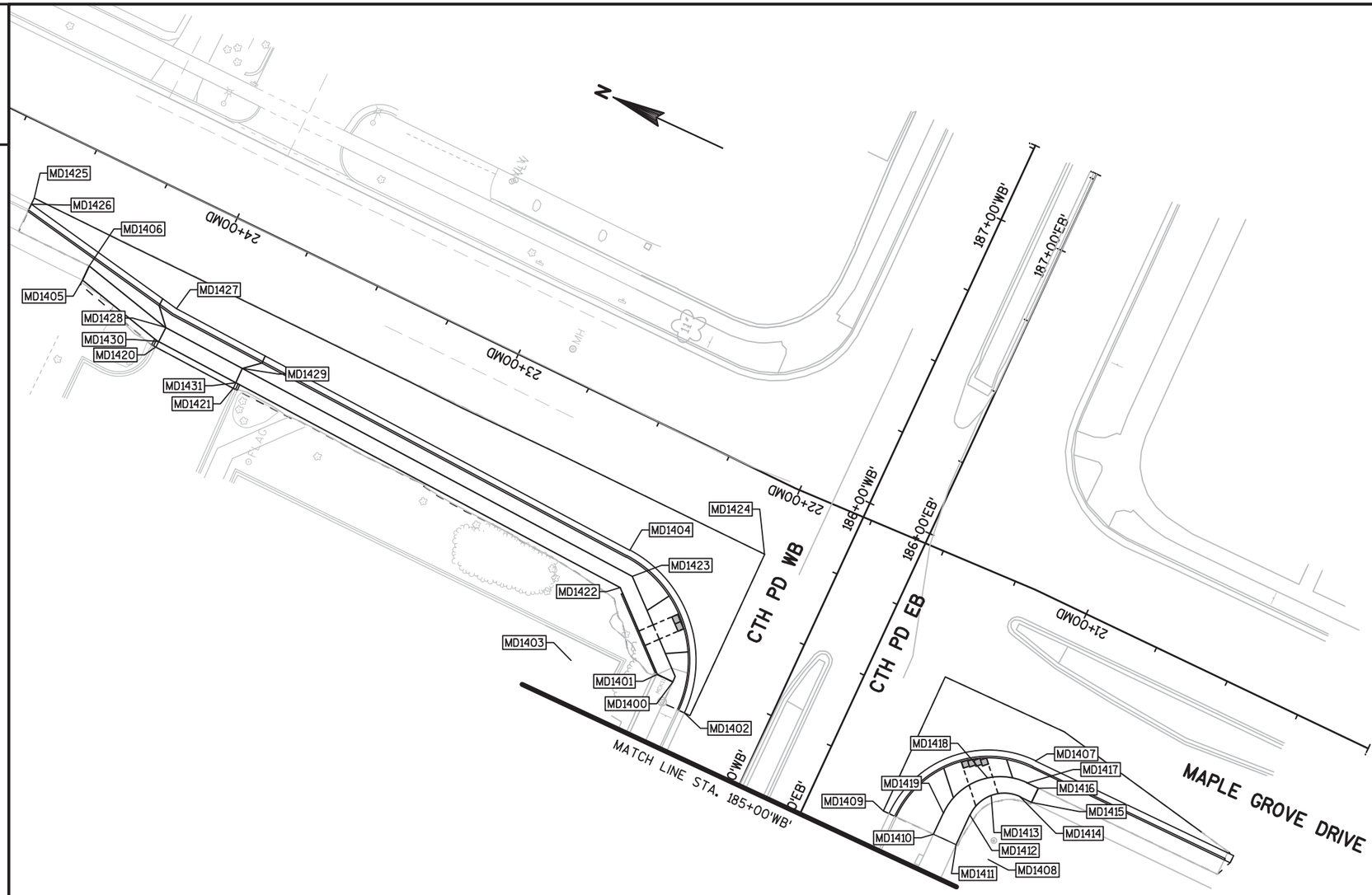
2

N

POINT	STATION		OFFSET		ELEVATION	COMMENT
WB1300	184+11.59	"WB"	38.83'	LT	---	SIDEWALK MATCHPOINT
WB1301	184+11.61	"WB"	33.25'	LT	---	SIDEWALK MATCHPOINT
WB1302	184+60.06	"WB"	38.95'	LT	---	SIDEWALK MATCHPOINT
WB1303	184+60.05	"WB"	33.21'	LT	---	SIDEWALK MATCHPOINT
WB1304	180+91.47	"WB"	2.07'	LT	---	PAVEMENT MATCHPOINT
EB1305	180+99.38	"EB"	1.95'	RT	1009.30	PAVEMENT MATCHPOINT
WB1306	184+23.09	"WB"	31.38'	LT	---	---
WB1307	184+23.49	"WB"	36.38'	LT	---	---
WB1308	184+32.93	"WB"	36.38'	LT	---	---
WB1309	184+32.93	"WB"	31.38'	LT	---	---
WB1310	184+23.49	"WB"	28.39'	LT	---	BEGIN BUS RAMP CUTOUT
WB1311	184+32.93	"WB"	28.39'	LT	---	END BUS RAMP CUTOUT
RADII SHOWN ARE TO CURB FLANGE						



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN DETAILS - STAKEOUT DATA: CTH PD	SHEET 101	E



POINT	STATION		OFFSET		ELEVATION	COMMENT
MD1400	22+09.73	"MD"	72.92'	RT	---	SIDEWALK MATCHPOINT
MD1401	22+15.24	"MD"	72.89'	RT	1020.40	SIDEWALK MATCHPOINT
MD1402	22+02.06	"MD"	80.23'	RT	1019.28	PC=40' RADIUS
MD1403	22+42.06	"MD"	80.95'	RT	---	40' RADIUS
MD1404	22+40.51	"MD"	40.98'	RT	1021.18	PT=40' RADIUS
MD1405	24+35.87	"MD"	39.55'	RT	1027.81	SIDEWALK MATCHPOINT
MD1406	24+35.96	"MD"	34.56'	RT	1027.74	SIDEWALK MATCHPOINT
MD1407	20+94.43	"MD"	49.49'	RT	1018.33	PC=35' RADIUS
MD1408	20+94.45	"MD"	84.49'	RT	---	35' RADIUS
MD1409	21+35.29	"MD"	84.21'	RT	1018.23	PT=35' RADIUS
MD1410	21+13.75	"MD"	84.71'	RT	---	SIDEWALK MATCHPOINT
MD1411	21+05.80	"MD"	84.61'	RT	---	SIDEWALK MATCHPOINT
MD1412	21+05.88	"MD"	74.14'	RT	1018.91	PC=12' RADIUS
MD1413	21+02.41	"MD"	65.55'	RT	1018.78	CURVE MIDPOINT (12' RADIUS)
MD1414	20+93.85	"MD"	61.99'	RT	1018.97	PT=12' RADIUS
MD1415	20+89.81	"MD"	61.99'	RT	---	SIDEWALK MATCHPOINT
MD1416	20+89.80	"MD"	56.99'	RT	1019.01	SIDEWALK MATCHPOINT
MD1417	20+93.83	"MD"	57.06'	RT	1018.92	PC=20' RADIUS
MD1418	21+05.85	"MD"	61.00'	RT	1018.68	CURVE MIDPOINT (20' RADIUS)
MD1419	21+13.84	"MD"	77.23'	RT	1019.02	PT=20' RADIUS
MD1420	24+05.48	"MD"	48.59'	RT	---	DRIVEWAY MATCHPOINT
MD1421	23+77.38	"MD"	48.69'	RT	1025.97	DRIVEWAY MATCHPOINT
MD1422	22+38.07	"MD"	53.09'	RT	1021.46	---
MD1423	22+36.12	"MD"	48.16'	RT	1021.38	---
MD1424	22+01.54	"MD"	23.22'	RT	1020.62	PAVEMENT MATCHPOINT
MD1425	24+61.24	"MD"	22.67'	RT	1027.66	PAVEMENT MATCHPOINT
MD1426	24+61.26	"MD"	24.80'	RT	1027.62	BEGIN 6:1 TAPER
MD1427	24+04.85	"MD"	34.62'	RT	1026.32	END 6:1 TAPER
MD1428	24+05.59	"MD"	41.61'	RT	1026.62	---
MD1429	23+77.53	"MD"	42.67'	RT	1025.99	---
MD1430	24+05.59	"MD"	46.61'	RT	1026.69	---
MD1431	23+77.53	"MD"	47.69'	RT	1026.07	---
RADII SHOWN ARE TO CURB FLANGE						

2

2

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT CLASS III TYPE A
- SOD LAWN
- MULCHING AND SEEDING MIXTURE NO. 40
- SILT FENCE
- (AC) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE C
- (AD) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- EROSION BALES
- RIPRAP MEDIUM
- RIPRAP HEAVY
- CULVERT PIPE CHECKS
- TSB TEMPORARY SEDIMENT TRAP
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C

RIP RAP

SIGN

ⓦV

R/W

MERITER WAY

M/R

11+00'NW'

EXISTING CULVERT PIPE INLET

TLE

R/W

CTH PD WB

108+00'WB' 109+00'WB' 110+00'WB' 111+00'WB' 112+00'WB' 113+00'WB' 114+00'WB'

MATCH LINE STA. 114+00'WB'

108+00'EB' 109+00'EB' 110+00'EB' 111+00'EB' 112+00'EB' 113+00'EB' 114+00'EB'

CTH PD EB

R/W

TLE

ASPHALTIC FLUME WITH RIPRAP MEDIUM (SEE CONSTRUCTION DETAIL)

EROSION BALES (SEE CONSTRUCTION DETAIL)

N

2

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	EROSION CONTROL: CTH PD	SHEET 103	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 021202

PLOT DATE : 11/30/2016 11:13 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT CLASS III TYPE A
- SOD LAWN
- MULCHING AND SEEDING MIXTURE NO. 40
- SILT FENCE
- (AC) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE C
- (AD) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- EROSION BALES
- RIPRAP MEDIUM
- RIPRAP HEAVY
- CULVERT PIPE CHECKS
- TSB TEMPORARY SEDIMENT TRAP
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C

ICE AGE JUNCTION PATH

RIPRAP MEDIUM (SEE TYPICAL SECTION FOR DETAILS)

TLE

R/W

MATCH LINE STA. 114+00'WB'

114+00'WB' 115+00'WB' 116+00'WB' 117+00'WB' 118+00'WB' 119+00'WB' 120+00'WB'

CTH PD WB

114+00'EB' 115+00'EB' 116+00'EB' 117+00'EB' 118+00'EB' 119+00'EB' 120+00'EB'

CTH PD EB

MATCH LINE STA. 120+00'WB'

R/W

EROSION BALES (SEE CONSTRUCTION DETAIL)

TLE

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	EROSION CONTROL: CTH PD	SHEET 104	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 021203

PLOT DATE : 11/30/2016 11:13 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT CLASS III TYPE A
- SOD LAWN
- MULCHING AND SEEDING MIXTURE NO. 40
- SILT FENCE
- (AC) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE C
- (AD) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- EROSION BALES
- RIPRAP MEDIUM
- RIPRAP HEAVY
- CULVERT PIPE CHECKS
- TSB TEMPORARY SEDIMENT TRAP
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C

SEE SPECIALTY SEEDING PLAN FOR EROSION CONTROL AND SEEDING MEASURES NOT SHOWN

ICE AGE NATIONAL SCENIC TRAIL

SNOWYCAP TRAIL

ICE AGE JUNCTION PATH

N

SEE SPECIALTY SEEDING PLAN FOR EROSION CONTROL AND SEEDING MEASURES NOT SHOWN

RIPRAP TREATMENT AT PIPE ENDWALL (SEE CONSTRUCTION DETAIL)

AC

210+00'AT'

209+00'AT'

211+00'AT'

216+00'AT'

215+00'AT'

214+00'AT'

213+00'AT'

212+00'AT'

R/W

CTH PD WB

MATCH LINE STA. 120+00'WB'

120+00'WB'

121+00'WB'

122+00'WB'

123+00'WB'

124+00'WB'

125+00'WB'

126+00'WB'

MATCH LINE STA. 126+00'WB'

120+00'EB'

121+00'EB'

122+00'EB'

123+00'EB'

124+00'EB'

125+00'EB'

126+00'EB'

CTH PD EB

DRIVEWAY ASPHALTIC FLUME (SEE CONSTRUCTION DETAIL)

11+00'DW'

12+00'DW'

DRIVEWAY 122+25'DW'

207+00'AT'

206+00'AT'

TLE

HSE

SEE SPECIALTY SEEDING PLAN FOR EROSION CONTROL AND SEEDING MEASURES NOT SHOWN

ICE AGE NATIONAL SCENIC TRAIL

ICE AGE JUNCTION PATH

MATCH LINE STA. 206+00'AT'

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	EROSION CONTROL: CTH PD	SHEET 105	E

2

2

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT CLASS III TYPE A
- SOD LAWN
- MULCHING AND SEEDING MIXTURE NO. 40
- SILT FENCE
- (AC) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE C
- (AD) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- EROSION BALES
- RIPRAP MEDIUM
- RIPRAP HEAVY
- CULVERT PIPE CHECKS
- TSB TEMPORARY SEDIMENT TRAP
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C

N

MATCH LINE STA. 206+00

206+02

205+00

204+00

203+00

202+00

201+00

SEE SPECIALTY SEEDING PLAN FOR EROSION CONTROL AND SEEDING MEASURES NOT SHOWN

6"

ICE AGE JUNCTION PATH

TLE

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	EROSION CONTROL: CTH PD	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 021204

PLOT DATE : 11/30/2016 11:13 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

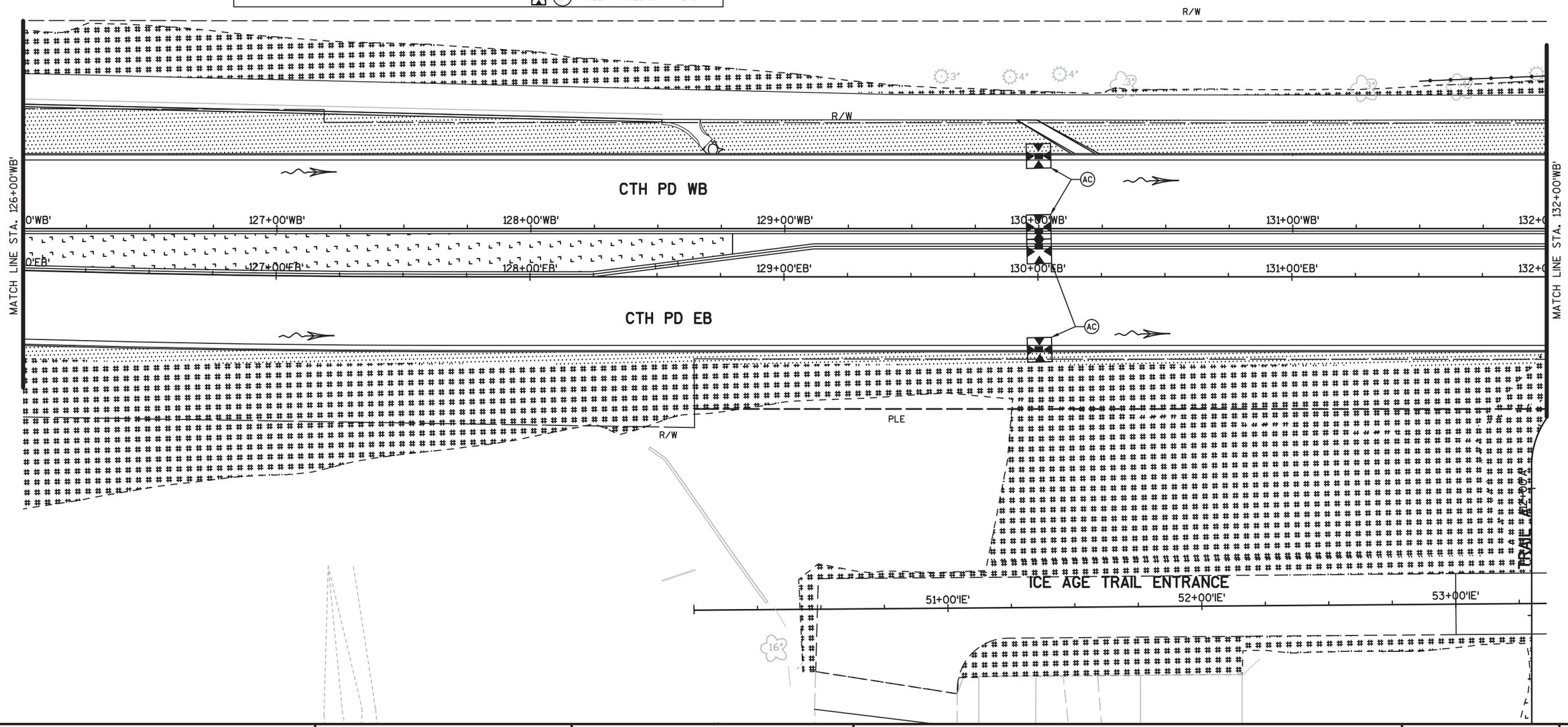
2

2

N

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT CLASS III TYPE A
- SOD LAWN
- MULCHING AND SEEDING MIXTURE NO. 40
- SILT FENCE
- (AC) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE C
- (AD) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- EROSION BALES
- RIPRAP MEDIUM
- RIPRAP HEAVY
- CULVERT PIPE CHECKS
- TSB TEMPORARY SEDIMENT TRAP
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C



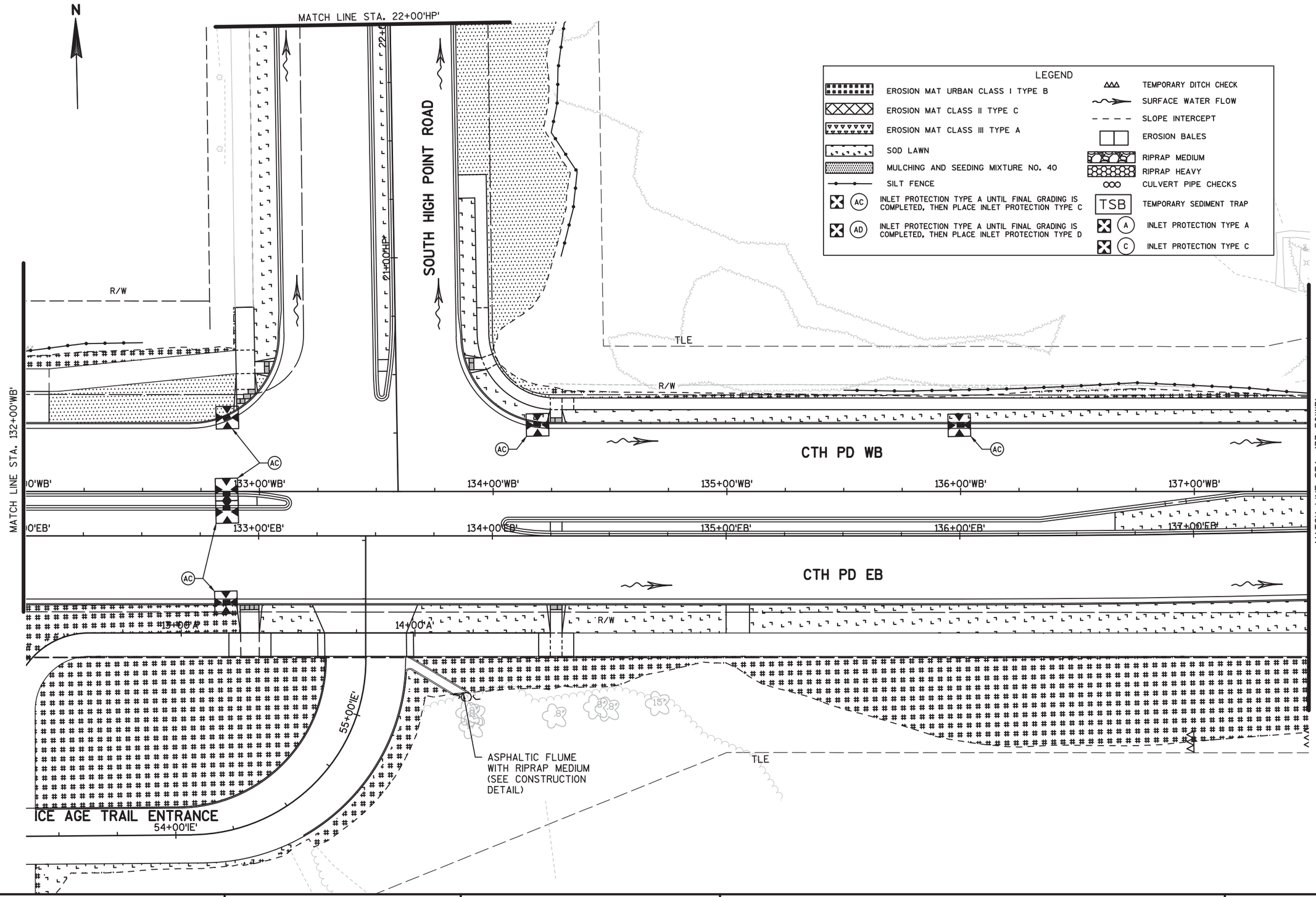
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	EROSION CONTROL: CTH PD	SHEET 107	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 021205

PLOT DATE : 11/30/2016 11:13 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	EROSION CONTROL: CTH PD	SHEET 108	E

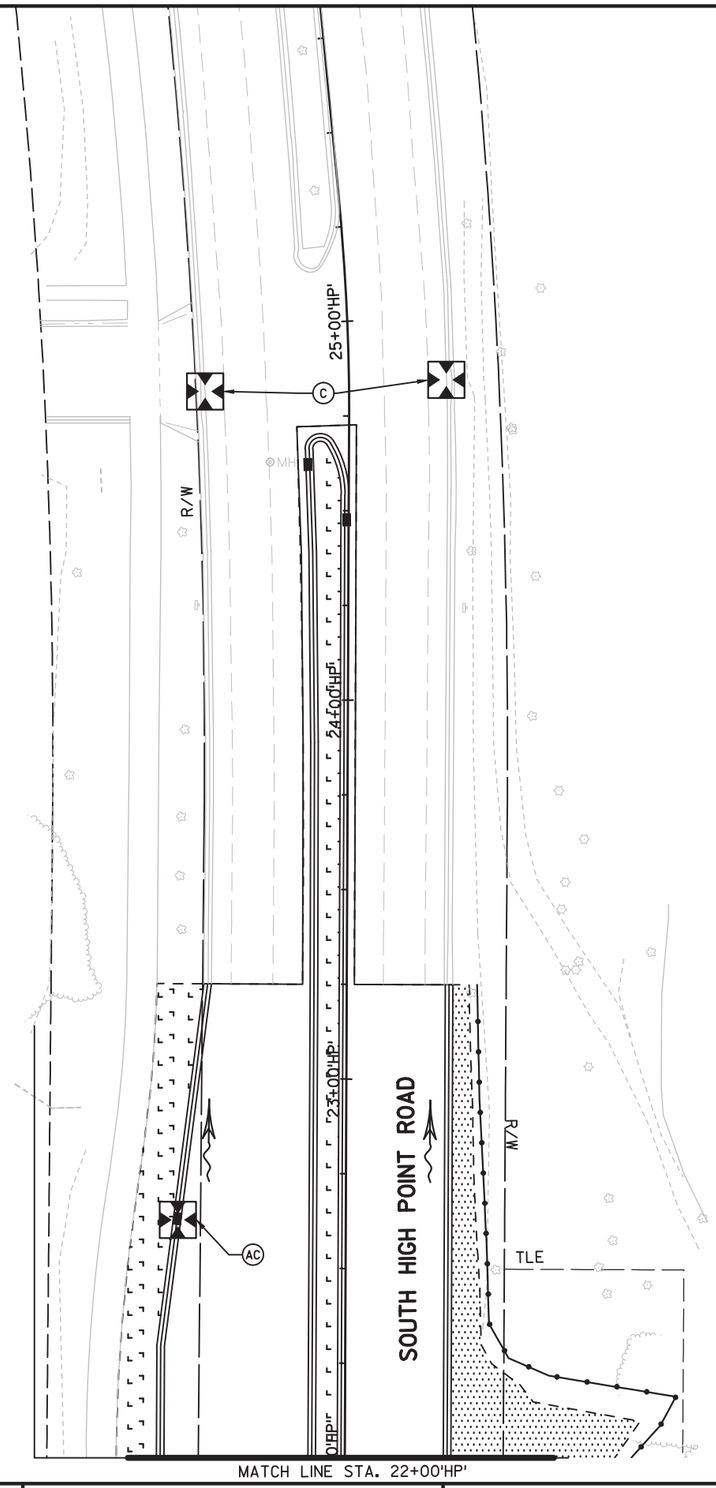
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 021206
PLOT DATE : 11/30/2016 11:14 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT CLASS III TYPE A
- SOD LAWN
- MULCHING AND SEEDING MIXTURE NO. 40
- SILT FENCE
- (AC) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE C
- (AD) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- EROSION BALES
- RIPRAP MEDIUM
- RIPRAP HEAVY
- CULVERT PIPE CHECKS
- TSB TEMPORARY SEDIMENT TRAP
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	EROSION CONTROL: CTH PD	SHEET 109	E

INSTALL INLET PROTECTION TYPE C TO IMMEDIATE EXISTING DOWNSTREAM INLET

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT CLASS III TYPE A
- SOD LAWN
- MULCHING AND SEEDING MIXTURE NO. 40
- SILT FENCE
- (AC) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE C
- (AD) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- EROSION BALES
- RIPRAP MEDIUM
- RIPRAP HEAVY
- CULVERT PIPE CHECKS
- TSB TEMPORARY SEDIMENT TRAP
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C

N

STRATON WAY

31+00'SW'

TLE

R/W

AC

138+00'WB'

139+00'WB'

140+00'WB'

141+00'WB'

CTH PD WB

142+00'WB'

143+00'WB'

137+50'WB'

MATCH LINE STA. 137+50'WB'

138+00'EB'

139+00'EB'

140+00'EB'

141+00'EB'

142+00'EB'

143+00'EB'

CTH PD EB

A

143+50'WB'

MATCH LINE STA. 143+50'WB'

CULVERT PIPE CHECK TEMPORARY (SEE CONSTRUCTION DETAIL)

TLE

R/W

41+00'SP'

C

SNOWY PARKWAY

2

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	EROSION CONTROL: CTH PD	SHEET 110	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 021207

PLOT DATE : 11/30/2016 11:14 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

MATCH LINE STA. 17+75'BM'

BADGER MILL CREEK

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT CLASS III TYPE A
- SOD LAWN
- MULCHING AND SEEDING MIXTURE NO. 40
- SILT FENCE
- (AC) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE C
- (AD) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- EROSION BALES
- RIPRAP MEDIUM
- RIPRAP HEAVY
- CULVERT PIPE CHECKS
- TSB TEMPORARY SEDIMENT TRAP
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C

WB00+15'

15+00'BM

17+00'BM

EB00+15'

MATCH LINE STA. 12+50'BM'

RIPRAP TREATMENT AT PIPE ENDWALL (SEE CONSTRUCTION DETAIL)

R/W

MATCH LINE STA. 143+50'WB'

CTH PD WB

144+00'WB' 145+00'WB' 146+00'WB' 147+00'WB' 148+00'WB' 149+00'WB'

144+00'EB' 145+00'EB' 146+00'EB' 147+00'EB' 148+00'EB' 149+00'EB'

CTH PD EB

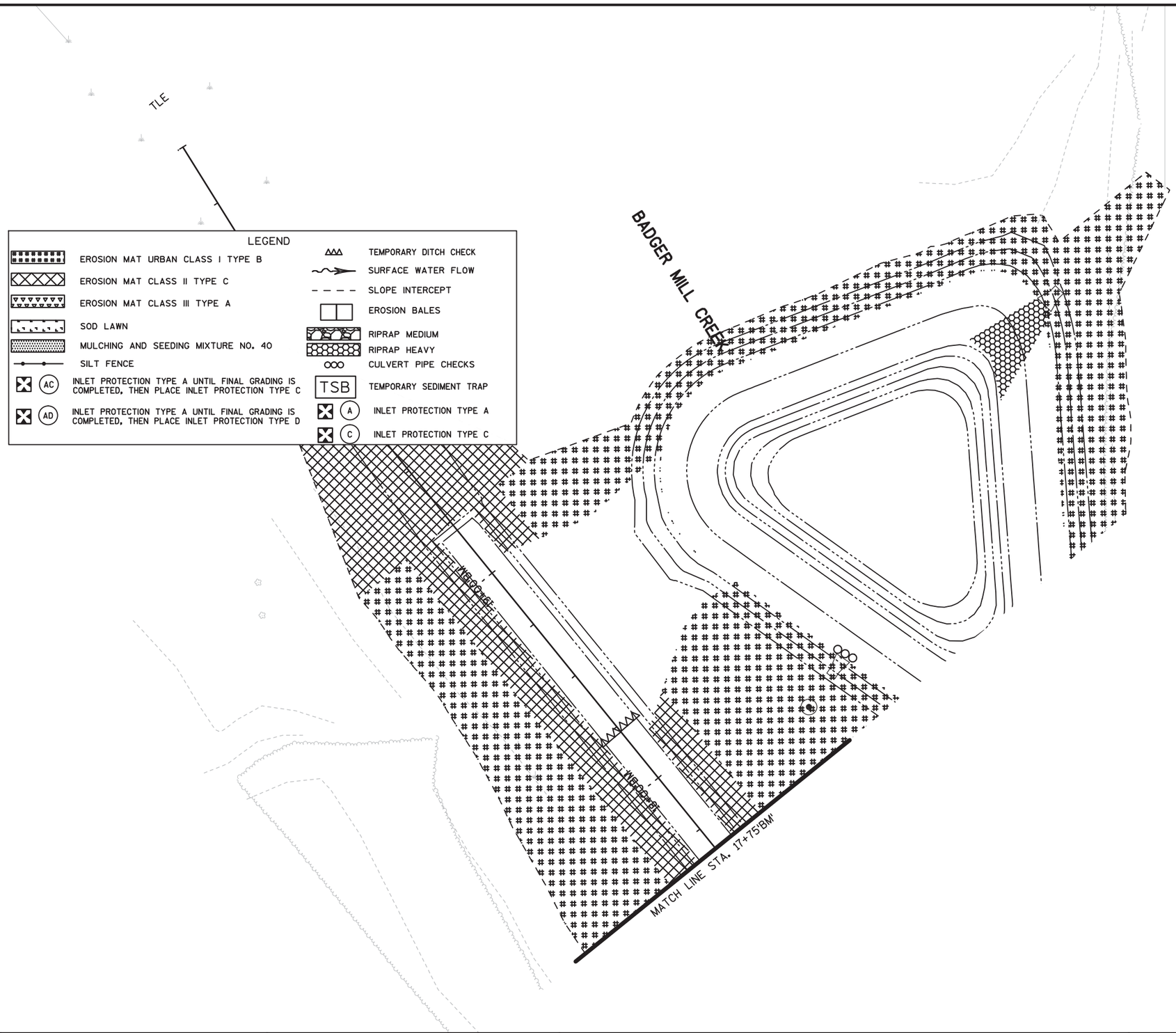
(AC) (A) (AD)

MATCH LINE STA. 149+50'WB'

R/W

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	EROSION CONTROL: CTH PD	SHEET 111	E

2



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	EROSION CONTROL: CTH PD	SHEET 112	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 021208

PLOT DATE : 11/30/2016 11:14 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT CLASS III TYPE A
- SOD LAWN
- MULCHING AND SEEDING MIXTURE NO. 40
- SILT FENCE
- (AC) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE C
- (AD) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- EROSION BALES
- RIPRAP MEDIUM
- RIPRAP HEAVY
- CULVERT PIPE CHECKS
- TSB TEMPORARY SEDIMENT TRAP
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C

MATCH LINE STA. 12+50'BM'

TEMPORARY SEDIMENT TRAP (SEE CONSTRUCTION DETAIL)

TSB

MUIR FIELD ROAD

56+00'CM'

55+00'CM'

54+00'CM'

53+00'CM'

COUNTRY GROVE DRIVE

TLE

R/W

CTH PD WB

CTH PD EB

150+00'WB' 151+00'WB' 152+00'WB' 153+00'WB' 154+00'WB' 155+00'WB'

150+00'EB' 151+00'EB' 152+00'EB' 153+00'EB' 154+00'EB' 155+00'EB'

MATCH LINE STA. 149+50'WB'

MATCH LINE STA. 155+50'WB'

MATCH LINE STA. 53+00'CM'

INSTALL INLET PROTECTION TYPE C TO IMMEDIATE EXISTING DOWNSTREAM INLET

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	EROSION CONTROL: CTH PD	SHEET 113	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 021209

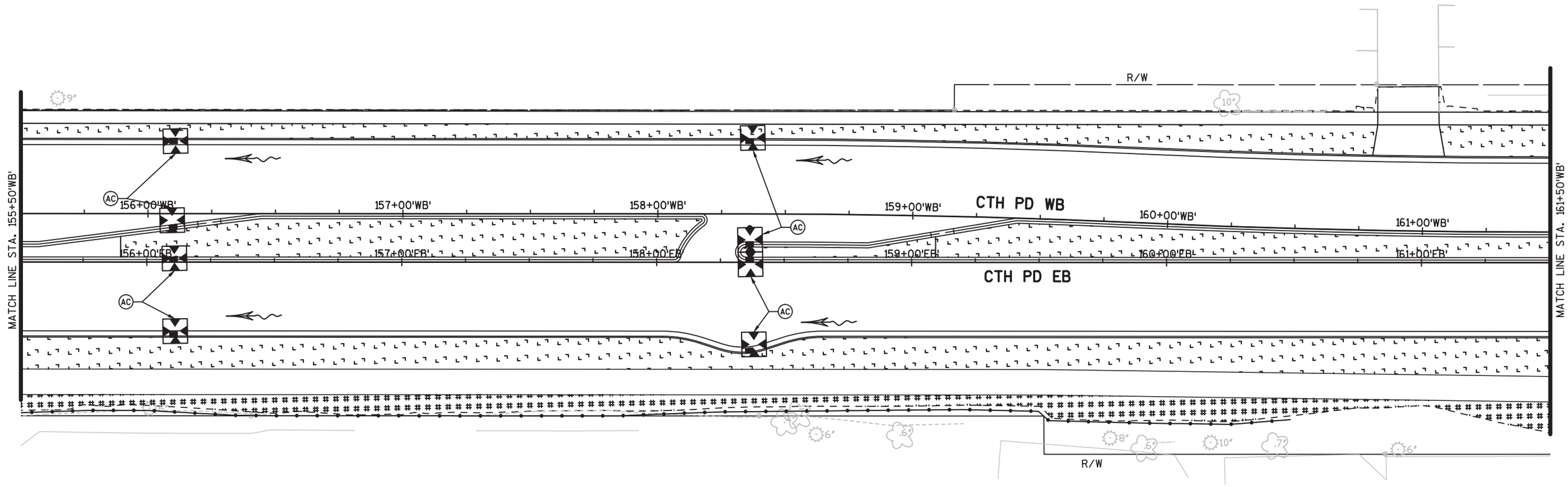
PLOT DATE : 11/30/2016 11:14 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT CLASS III TYPE A
- SOD LAWN
- MULCHING AND SEEDING MIXTURE NO. 40
- SILT FENCE
- (AC) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE C
- (AD) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- EROSION BALES
- RIPRAP MEDIUM
- RIPRAP HEAVY
- CULVERT PIPE CHECKS
- TSB TEMPORARY SEDIMENT TRAP
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C

N



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	EROSION CONTROL: CTH PD	SHEET 114	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 021210

PLOT DATE : 11/30/2016 11:14 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

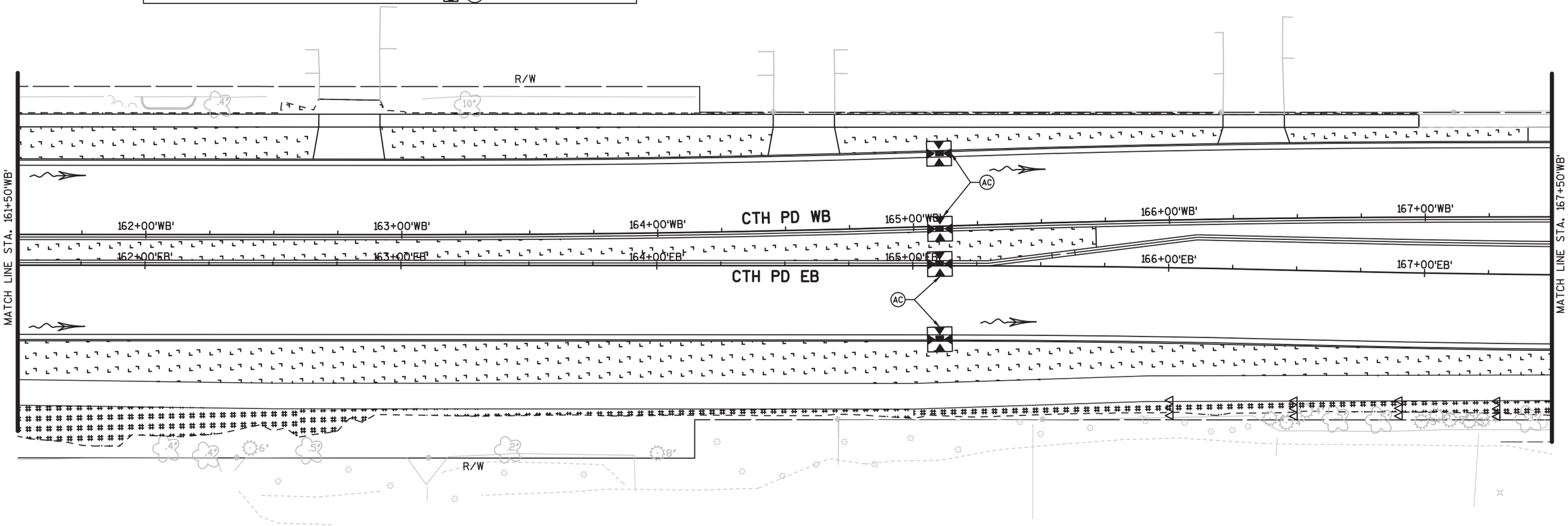
2

2

N

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT CLASS III TYPE A
- SOD LAWN
- MULCHING AND SEEDING MIXTURE NO. 40
- SILT FENCE
- (AC) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE C
- (AD) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- EROSION BALES
- RIPRAP MEDIUM
- RIPRAP HEAVY
- CULVERT PIPE CHECKS
- TSB TEMPORARY SEDIMENT TRAP
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	EROSION CONTROL: CTH PD	SHEET 115	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 021211

PLOT DATE : 11/30/2016 11:14 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT CLASS III TYPE A
- SOD LAWN
- MULCHING AND SEEDING MIXTURE NO. 40
- SILT FENCE
- (AC) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE C
- (AD) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- EROSION BALES
- RIPRAP MEDIUM
- RIPRAP HEAVY
- CULVERT PIPE CHECKS
- TSB TEMPORARY SEDIMENT TRAP
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C

SIVLERTON TRAIL

74+00'TD'

73+00'TD'

72+00'TD'

71+00'TD'

R/W

CTH PD WB

CTH PD EB

MATCH LINE STA. 167+50'WB'

MATCH LINE STA. 173+50'WB'

168+00'WB'

169+00'WB'

170+00'WB'

171+00'WB'

172+00'WB'

173+00'WB'

168+00'EB'

169+00'EB'

170+00'EB'

171+00'EB'

172+00'EB'

173+00'EB'

CULVERT PIPE CHECK TEMPORARY (SEE CONSTRUCTION DETAIL)

TANGLEWOOD DRIVE

INSTALL INLET PROTECTION TYPE C TO IMMEDIATE EXISTING DOWNSTREAM INLET

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	EROSION CONTROL: CTH PD	SHEET 116	E

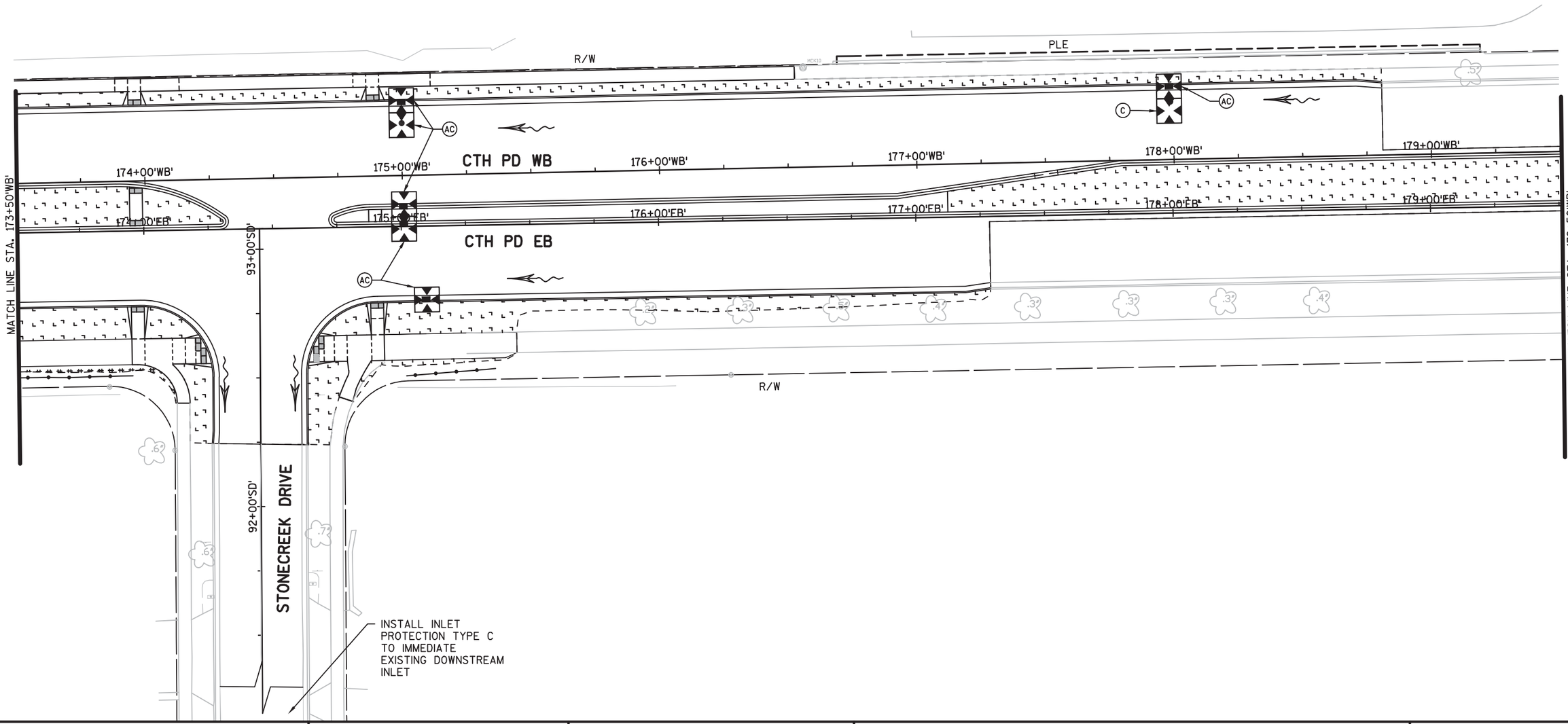
2

2

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT CLASS III TYPE A
- SOD LAWN
- MULCHING AND SEEDING MIXTURE NO. 40
- SILT FENCE
- (AC) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE C
- (AD) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- EROSION BALES
- RIPRAP MEDIUM
- RIPRAP HEAVY
- CULVERT PIPE CHECKS
- TSB TEMPORARY SEDIMENT TRAP
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C

N



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	EROSION CONTROL: CTH PD	SHEET 117	E

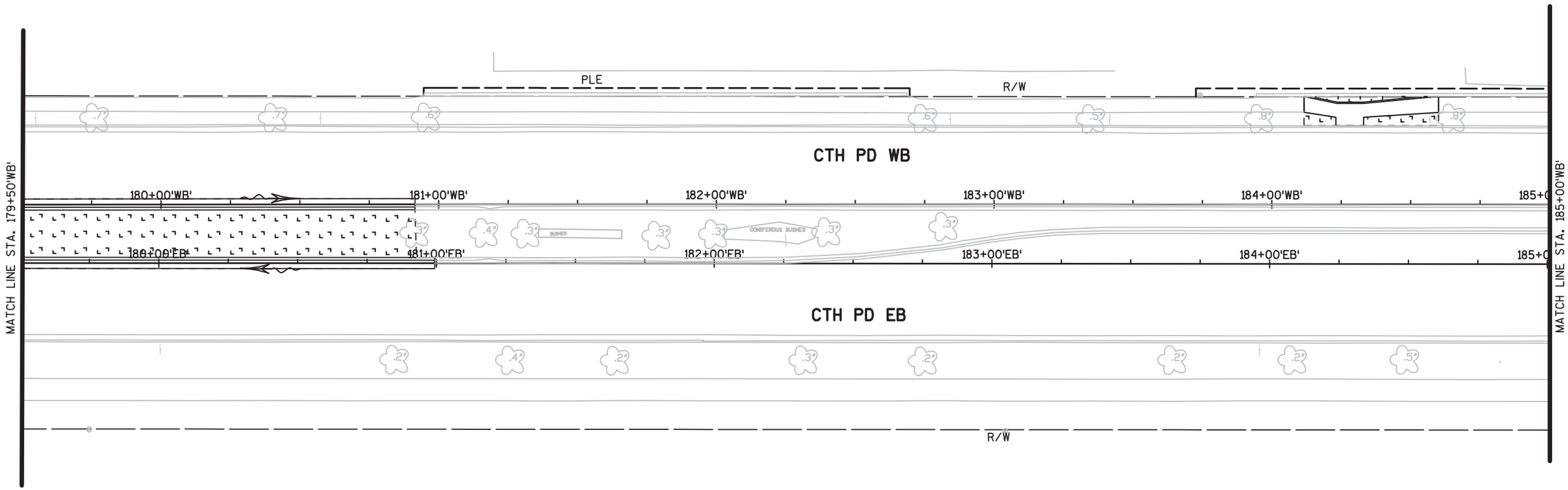
2

2

N

LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT CLASS III TYPE A
- SOD LAWN
- MULCHING AND SEEDING MIXTURE NO. 40
- SILT FENCE
- (AC) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE C
- (AD) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- EROSION BALES
- RIPRAP MEDIUM
- RIPRAP HEAVY
- CULVERT PIPE CHECKS
- TSB TEMPORARY SEDIMENT TRAP
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C

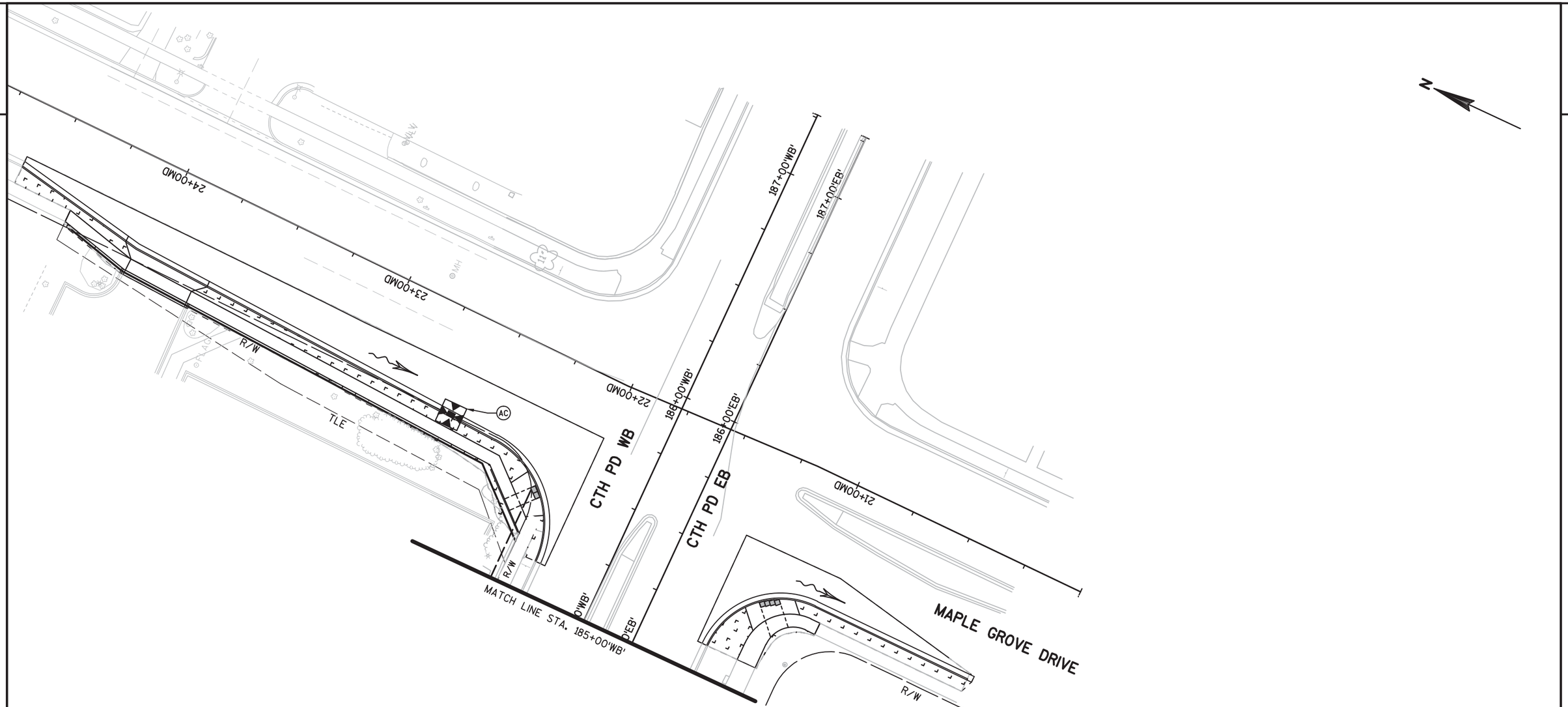


PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	EROSION CONTROL: CTH PD	SHEET 118	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\EROSION CONTROL\022001_EC.DWG
LAYOUT NAME - 021214

PLOT DATE : 11/30/2016 11:15 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- EROSION MAT CLASS III TYPE A
- SOD LAWN
- MULCHING AND SEEDING MIXTURE NO. 40
- SILT FENCE
- (AC) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE C
- (AD) INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED, THEN PLACE INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- EROSION BALES
- RIPRAP MEDIUM
- RIPRAP HEAVY
- CULVERT PIPE CHECKS
- TSB TEMPORARY SEDIMENT TRAP
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	EROSION CONTROL: CTH PD	SHEET 119	E

2

2

· ‹‹‹›››‹‹‹›››· REMOVING STORM SEWER

* TEMPORARY CASTING TO BE PLACED DURING STAGE 2.
FINAL CASTING TO BE PLACED DURING STAGE 4.

** TEMPORARY CASTING TO BE PLACED DURING STAGE 3.
FINAL CASTING TO BE PLACED DURING STAGE 4.

N

MERITER WAY

12.0 STA 110+88'WB', 17.1' LT
EXISTING MANHOLE

TLE

REMOVING INLETS

REMOVING STORM SEWER (12-INCH)

REMOVING INLETS

REMOVING STORM SEWER (18-INCH)

GRADING EASEMENT

EXISTING R/W

REMOVING
STORM SEWER
(12-INCH)

13.0 STA 111+72'WB', 28.5' LT
MANHOLES 5-H SPECIAL

39.0 STA 111+46'WB', 1.4' RT
RECONSTRUCTING INLETS H-S SPECIAL

REMOVING INLETS

14.0 STA 115+00'WB', 28.5' LT
MANHOLES 4-H SPECIAL

111+00'WB' 112+00'WB' 113+00'WB' CTH PD WB 114+00'WB' 115+00'WB' 116+00'WB'

T-100 STA 111+74'WB', 8.0' RT
MANHOLES 4-TEMPORARY INLET COVER

STA 111+24'WB', 5.5' LT
MANHOLES 6-J MODIFIED 12.1

STA 115+00'WB', 1.0' RT
INLETS 2x3-H SPECIAL 14.1

111+00'EB' 112+00'EB' 113+00'EB' 114+00'EB' 115+00'EB' 116+00'EB'

STA 111+45'WB', 9.4' RT
RECONSTRUCTING INLET H-S SPECIAL 39.1

CTH PD EB

14.2 STA 115+00'WB', 17.3' RT
INLETS 2x3-H SPECIAL

MATCH LINE STA. 116+50'WB'

REMOVING STORM SEWER (24-INCH)

13.2 STA 111+76'WB', 52.3' RT
INLETS 2x3-H SPECIAL

14.3 STA 115+00'WB', 46.8' RT
INLETS 2x3-H SPECIAL

EXISTING R/W

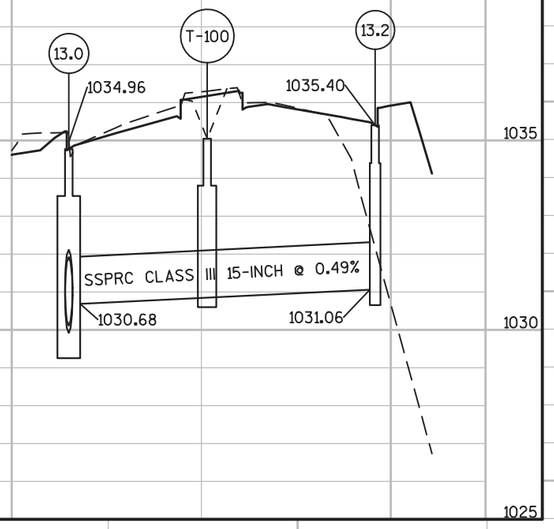
TLE

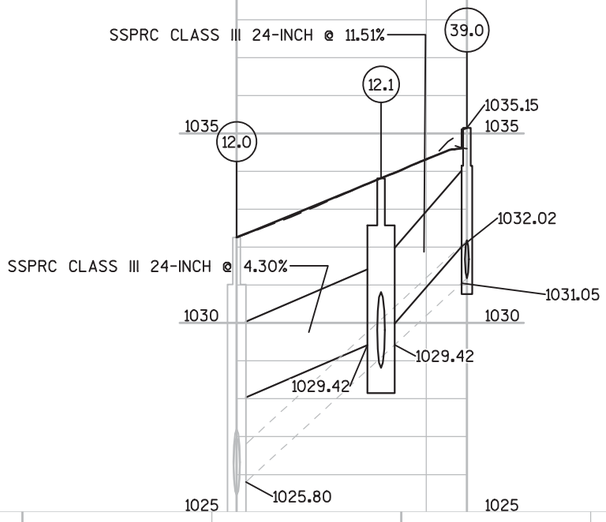
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	STORM SEWER	SHEET 120	E

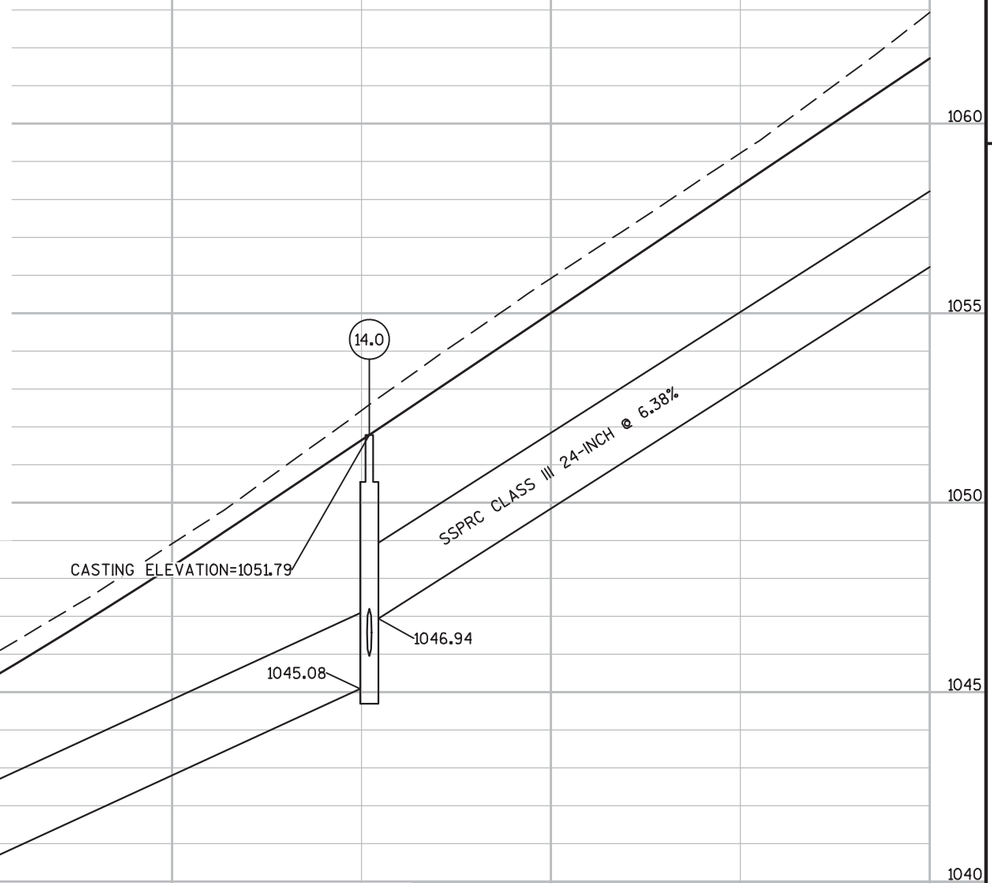
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\STORM SEWER\020201-SS.DWG
LAYOUT NAME - ****

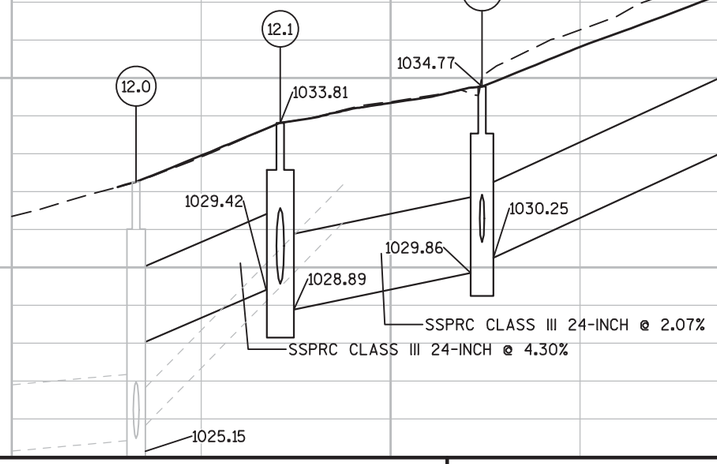
PLOT DATE : 12/2/2016 3:44 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

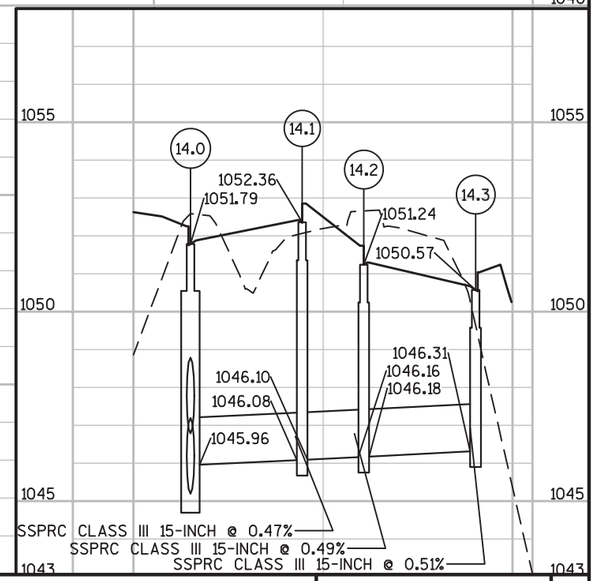
WISDOT/CADDS SHEET 42











PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	STORM SEWER	SHEET 121	E

N

· <<<>>><<<>>> · REMOVING STORM SEWER

* TEMPORARY CASTING TO BE PLACED DURING STAGE 2.
FINAL CASTING TO BE PLACED DURING STAGE 4.

** TEMPORARY CASTING TO BE PLACED DURING STAGE 3.
FINAL CASTING TO BE PLACED DURING STAGE 4.

MATCH LINE STA. 116+50'WB'

MATCH LINE STA. 122+25'WB'

TLE

PLE

EXISTING R/W

15.0 STA 118+50'WB', 28.5' LT
MANHOLES 4-H SPECIAL

15.1 STA 118+50'WB', 1.0' RT
INLETS 2x3-H SPECIAL

15.2 STA 118+50'WB', 7.0' RT
INLETS 2x3-H SPECIAL

15.3 STA 118+50'WB', 36.5' RT
INLETS 2x3-H SPECIAL

15.4 STA 119+64'WB', 28.5' LT
MANHOLES 4-H SPECIAL

15.5 STA 119+64'WB', 88.8' LT
INLETS 3-C

40' PUBLIC PEDESTRIAN/BIKE PATH EASEMENT

STA 121+58'WB', 59.2' LT
APRON ENDWALLS FOR CPRC 12-INCH 15.6

15.7 STA 122+70'WB', 65.9' LT
INLETS 3-C

STA 124+13'WB', 68.2' LT
INLETS 3-C 15.8

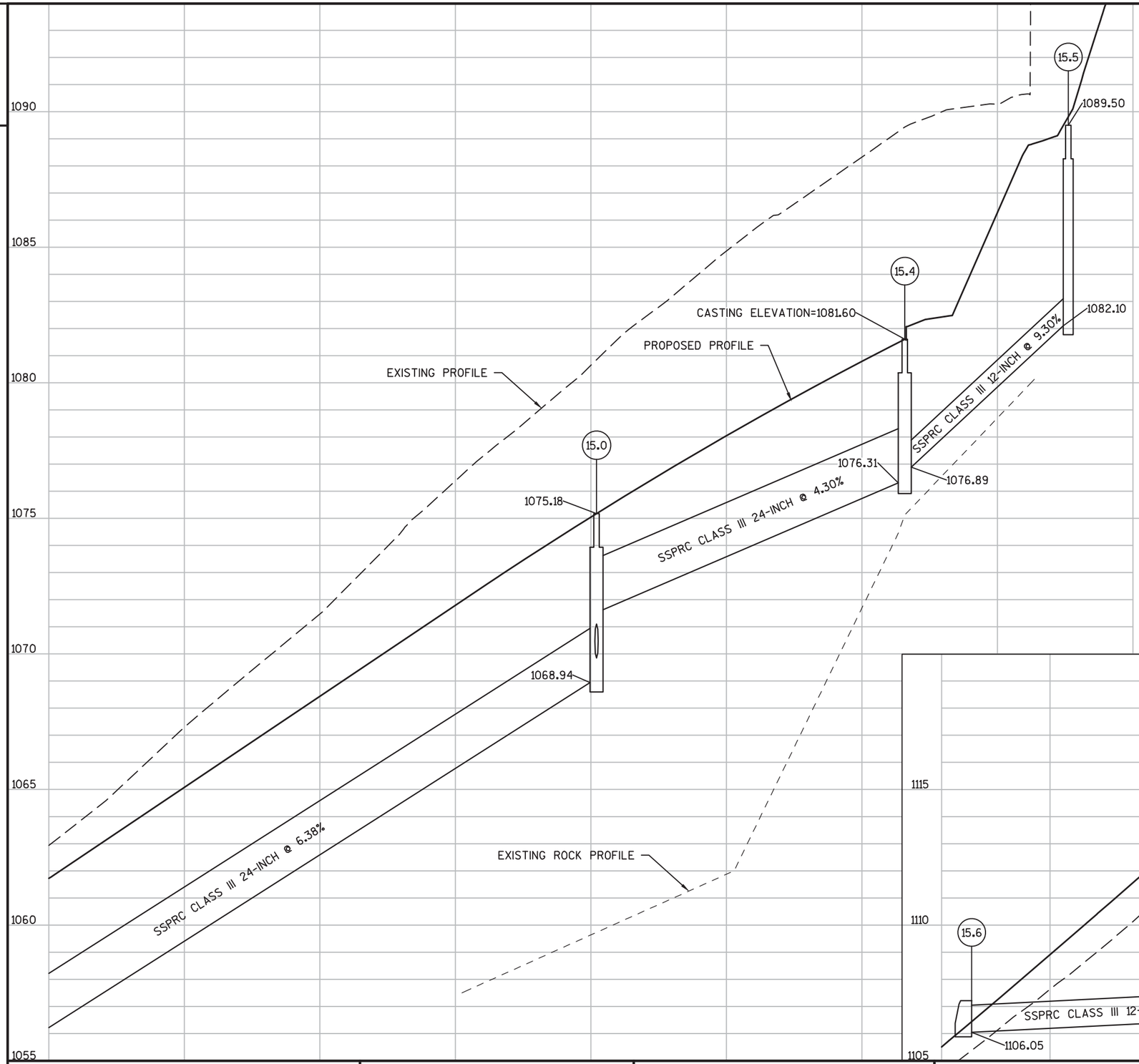
CTH PD WB

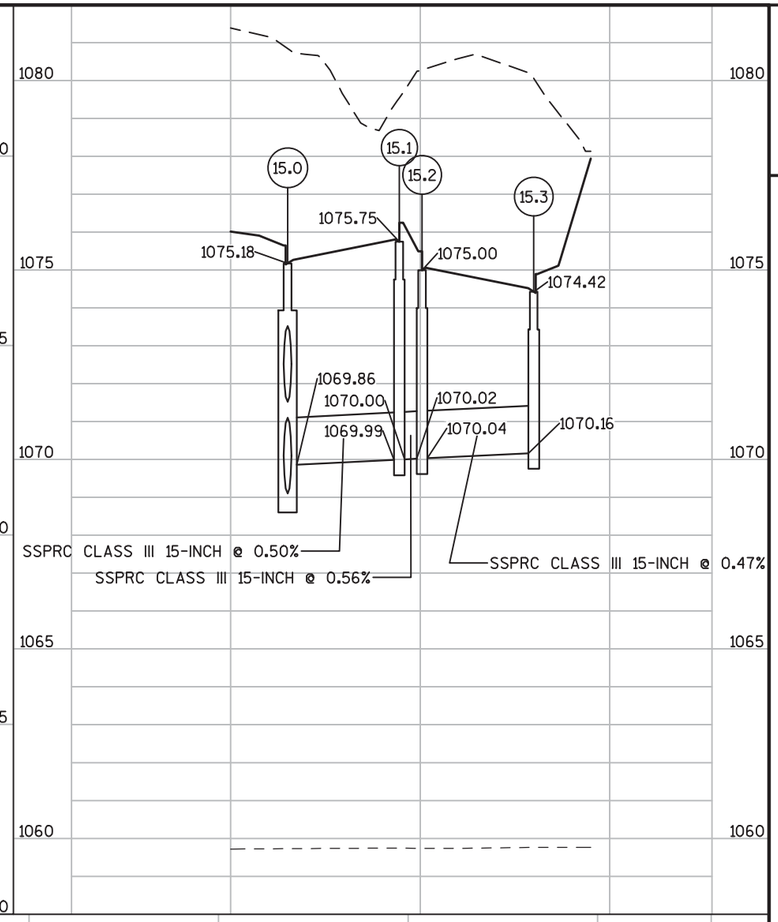
CTH PD EB

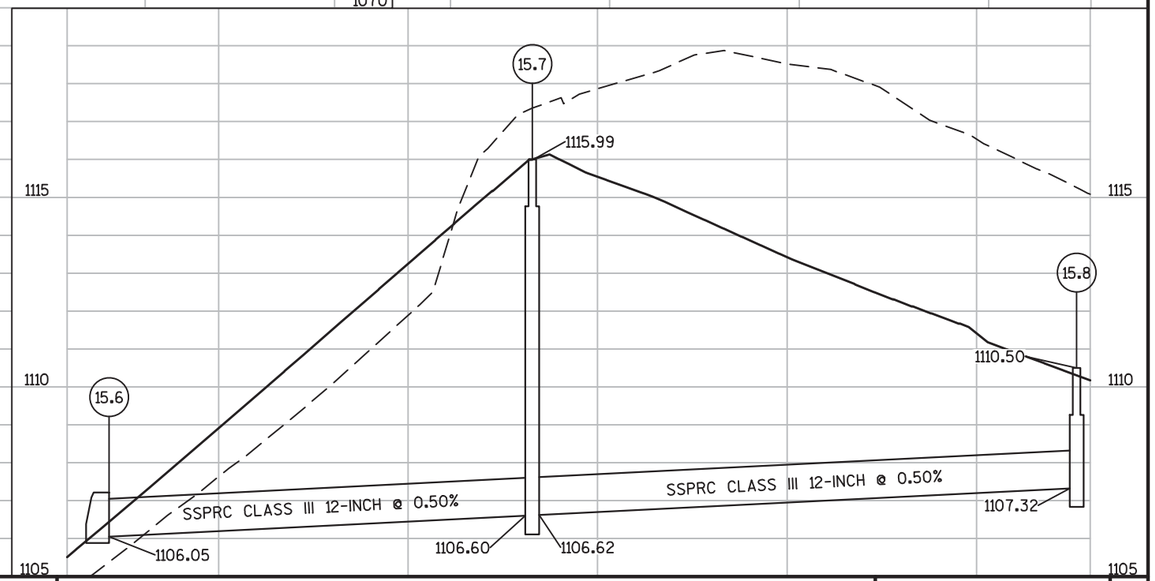
REMOVING SMALL PIPE CULVERTS

117+00'WB' 118+00'WB' 119+00'WB' 120+00'WB' 121+00'WB' 122+00'WB'
117+00'EB' 118+00'EB' 119+00'EB' 120+00'EB' 121+00'EB' 122+00'EB'
123+00'WB' 124+00'WB' 125+00'WB'
123+00'EB' 124+00'EB' 125+00'EB'

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	STORM SEWER	SHEET 122	E







PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	STORM SEWER	SHEET 123	E

STA 24+63'WB', 12.5' LT
INLETS 2x3-H
40.0

40.1 STA 24+50'WB', 1.0' LT
INLETS 2x3-H

24+00'HP'

23+00'HP'

MATCH LINE STA. 22+75'HP'

MATCH LINE STA. 22+75'HP'

STA 22+68'HP', 50.5' LT
CONCRETE COLLAR
38.2

STA 22+63'HP', 44.4' LT
INLETS 2x3-H SPECIAL
38.1

STA 22+55'HP', 28.2' LT
EXISTING MANHOLE
38.0

REMOVE INLETS

22+00'HP'

21+00'HP'

SOUTH HIGH POINT ROAD

· <<◇>><<◇>> · REMOVING STORM SEWER

* TEMPORARY CASTING TO BE PLACED DURING STAGE 2. FINAL CASTING TO BE PLACED DURING STAGE 4.

** TEMPORARY CASTING TO BE PLACED DURING STAGE 3. FINAL CASTING TO BE PLACED DURING STAGE 4.

N

REMOVING STORM SEWER (24-INCH)

40' PUBLIC PEDESTRIAN/BIKE PATH EASEMENT

REMOVING INLETS

REMOVING STORM SEWER (24-INCH)
REMOVING INLETS

TLE

R/W

R/W

10.0 STA 130+00'WB', 28.5' LT
MANHOLES 4-H SPECIAL

10.1 STA 130+00'WB', 1.0' RT
INLETS 2x3-H SPECIAL

9.0 STA 132+86'WB', 31.7' LT
MANHOLES 4-H SPECIAL

8.0 STA 134+19'WB', 28.9' LT
MANHOLES 4-H SPECIAL

130+00'WB'

131+00'WB'

CTH PD WB

132+00'WB'

* STA 132+86'WB', 1.0' RT
INLETS 2x3-H SPECIAL
9.1

133+00'WB'

134+00'WB'

135+00'WB'

10.2 STA 130+00'WB', 7.0' RT
INLETS 2x3-H SPECIAL

130+00'EB'

131+00'EB'

CTH PD EB

132+00'EB'

** STA 132+86'WB', 7.0' RT
INLETS 2x3-H SPECIAL
9.2

133+00'EB'

134+00'EB'

135+00'EB'

10.3 STA 130+00'WB', 47.5' RT
INLETS 2x3-H SPECIAL

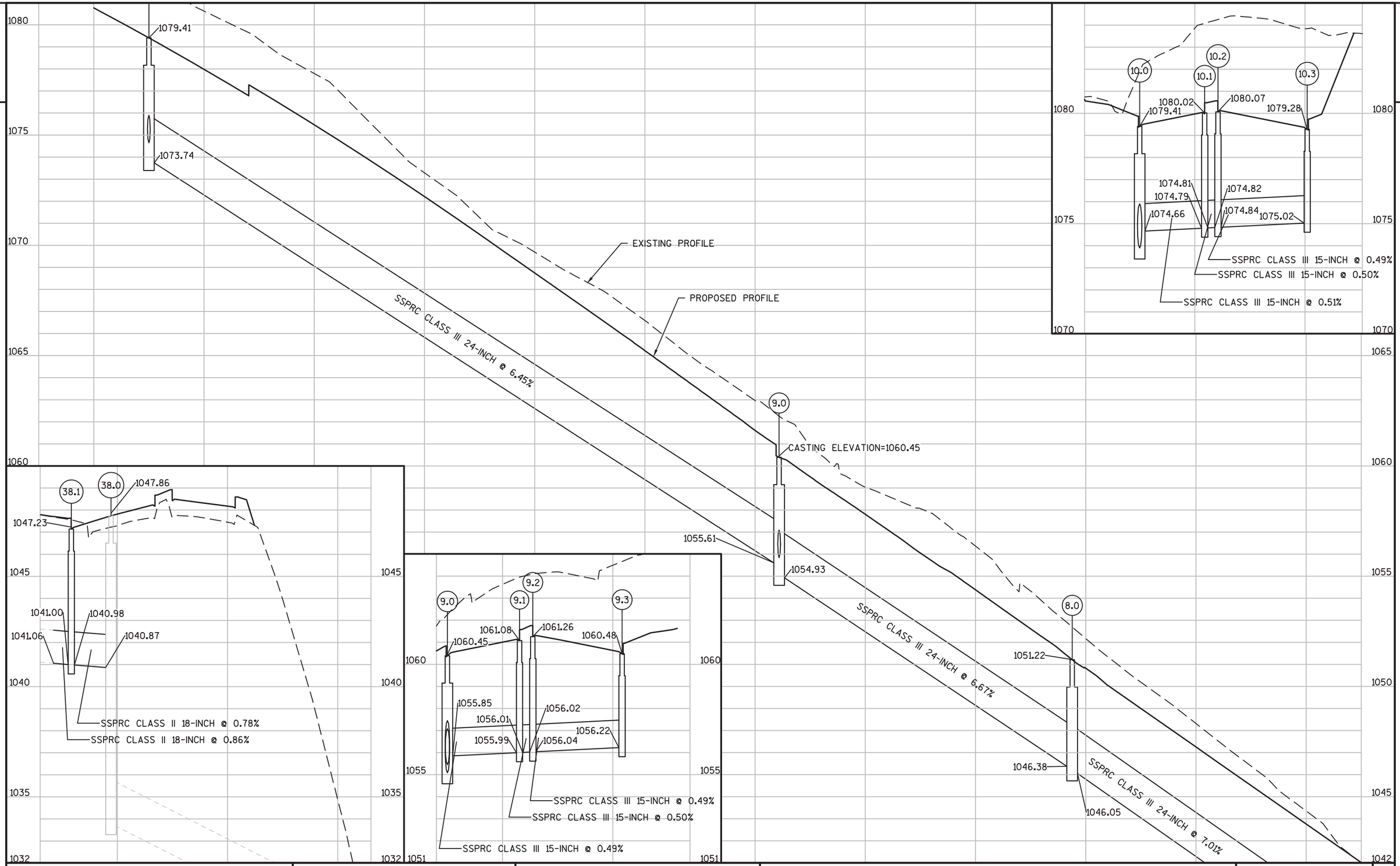
STA 132+86'WB', 47.5' RT
INLETS 2x3-H SPECIAL
9.3

R/W

PLE

MATCH LINE STA. 135+50'WB'

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	STORM SEWER	SHEET 124	E



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	STORM SEWER	SHEET 125	E

2

2

· ‹‹◇››‹‹◇›› · REMOVING STORM SEWER

* TEMPORARY CASTING TO BE PLACED DURING STAGE 2. FINAL CASTING TO BE PLACED DURING STAGE 4.

** TEMPORARY CASTING TO BE PLACED DURING STAGE 3. FINAL CASTING TO BE PLACED DURING STAGE 4.

N

REMOVING INLETS

REMOVING STORM SEWER (12-INCH)

STRATTON WAY

31+00'SW'

TLE

REMOVING INLETS

REMOVING STORM SEWER (12-INCH)

R/W

TLE

R/W

MATCH LINE STA. 135+50'WB'

7.0 STA 136+00'WB', 28.5' LT
MANHOLES 4-H SPECIAL

STA 137+54'WB', 28.5' LT
MANHOLES 4-H SPECIAL 6.0

CTH PD WB

STA 137+55'WB', 1.0' RT
INLETS 2x3-H SPECIAL 6.1

136+00'WB'

137+00'WB'

138+00'WB'

STA 140+00'WB', 5.0' RT
MANHOLES 4-TEMPORARY INLET COVER T-102

139+00'WB'

140+00'WB'

141+00'WB'

5.0 STA 140+00'WB', 28.5' LT
MANHOLES 5-H SPECIAL

5.1 STA 140+00'WB', 1.0' RT
INLETS 2x3-H SPECIAL

T-101 STA 137+55'WB', 6.4' RT
MANHOLES 4-TEMPORARY INLET COVER

136+00'EB'

137+00'EB'

138+00'EB'

139+00'EB'

140+00'EB'

141+00'EB'

CTH PD EB

6.2 STA 137+55'WB', 16.0' RT
INLETS 2x3-H SPECIAL

5.2 STA 140+00'WB', 14.7' RT
INLETS 2x3-H SPECIAL

6.3 STA 137+56'WB', 45.4' RT
INLETS 2x3-H SPECIAL

STA 140+00'WB', 44.2' RT
MANHOLES 4-H SPECIAL 5.3

REMOVING STORM SEWER (12-INCH)

REMOVING MANHOLES

REMOVING INLETS

REMOVING STORM SEWER (21-INCH)

REMOVING STORM SEWER (21-INCH)

R/W

PLE

STA 139+73'WB', 78.7' RT
APRON ENDWALLS FOR CPRC 24-INCH 5.4

PLE

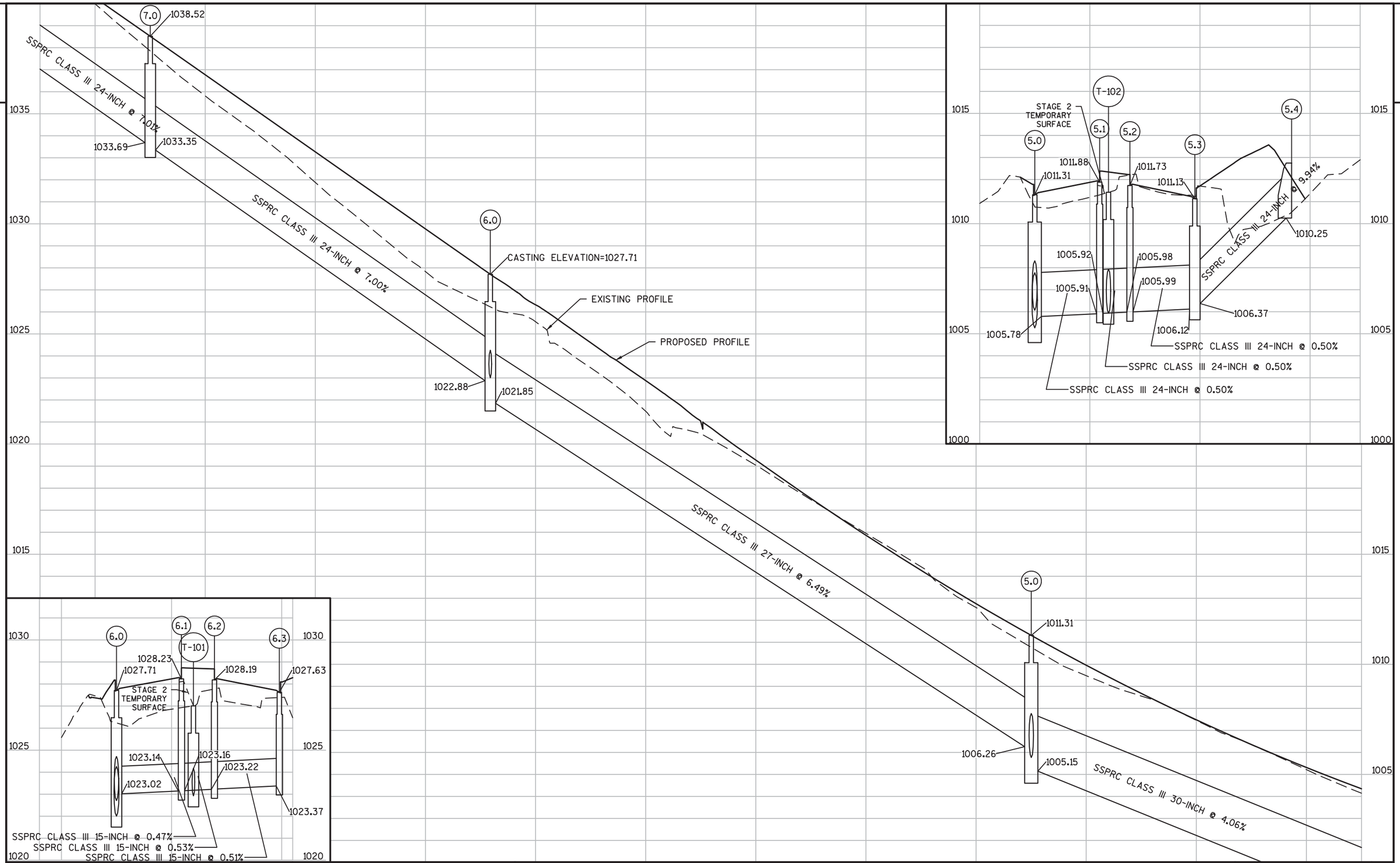
TLE

TLE

P.L.

MATCH LINE STA. 141+50'WB'

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	STORM SEWER	SHEET 126	E



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	STORM SEWER	SHEET 127	E

2

2

· <<O>><<O>> · REMOVING STORM SEWER

* TEMPORARY CASTING TO BE PLACED DURING STAGE 2.
FINAL CASTING TO BE PLACED DURING STAGE 4.

** TEMPORARY CASTING TO BE PLACED DURING STAGE 3.
FINAL CASTING TO BE PLACED DURING STAGE 4.

N

MATCH LINE STA. 141+50'WB'

MATCH LINE STA. 147+50'WB'

REMOVING SMALL PIPE CULVERTS

R/W

4.0 STA 142+00'WB', 28.5' LT
MANHOLES 5-H SPECIAL

4.1 STA 142+00'WB', 1.0' RT *
INLETS 2x3-H SPECIAL

T-104 STA 142+00'WB', 9.0' RT
MANHOLES 4-TEMPORARY INLET COVER

T-103 STA 142+40'WB', 8.7' RT
MANHOLES 4-TEMPORARY INLET COVER

CTH PD WB

142+00'WB' 143+00'WB' 144+00'WB' 145+00'WB' 146+00'WB' 147+00'WB'

142+00'EB' 143+00'EB' 144+00'EB' 145+00'EB' 146+00'EB' 147+00'EB'

CTH PD EB

** STA 142+00'WB', 18.8' RT
MANHOLES 4-H SPECIAL 4.2

4.3 STA 142+16'WB', 36.4' RT
MANHOLES 4-J MODIFIED

4.5 STA 142+18'WB', 53.1' RT
CONCRETE COLLAR

REMOVING
INLETS

R/W

STA 142+00'WB', 48.3' RT
MANHOLES 4-H SPECIAL 4.4

REMOVING STORM SEWER (12-INCH)

REMOVING STORM SEWER (HE 29-INCH X 45-INCH)

41+00'SP'

SNOWY PARKWAY

REMOVING STORM SEWER (18-INCH)

STA 146+00'WB', 28.5' LT
MANHOLES 4-H SPECIAL 3.0

REMOVING
INLETS

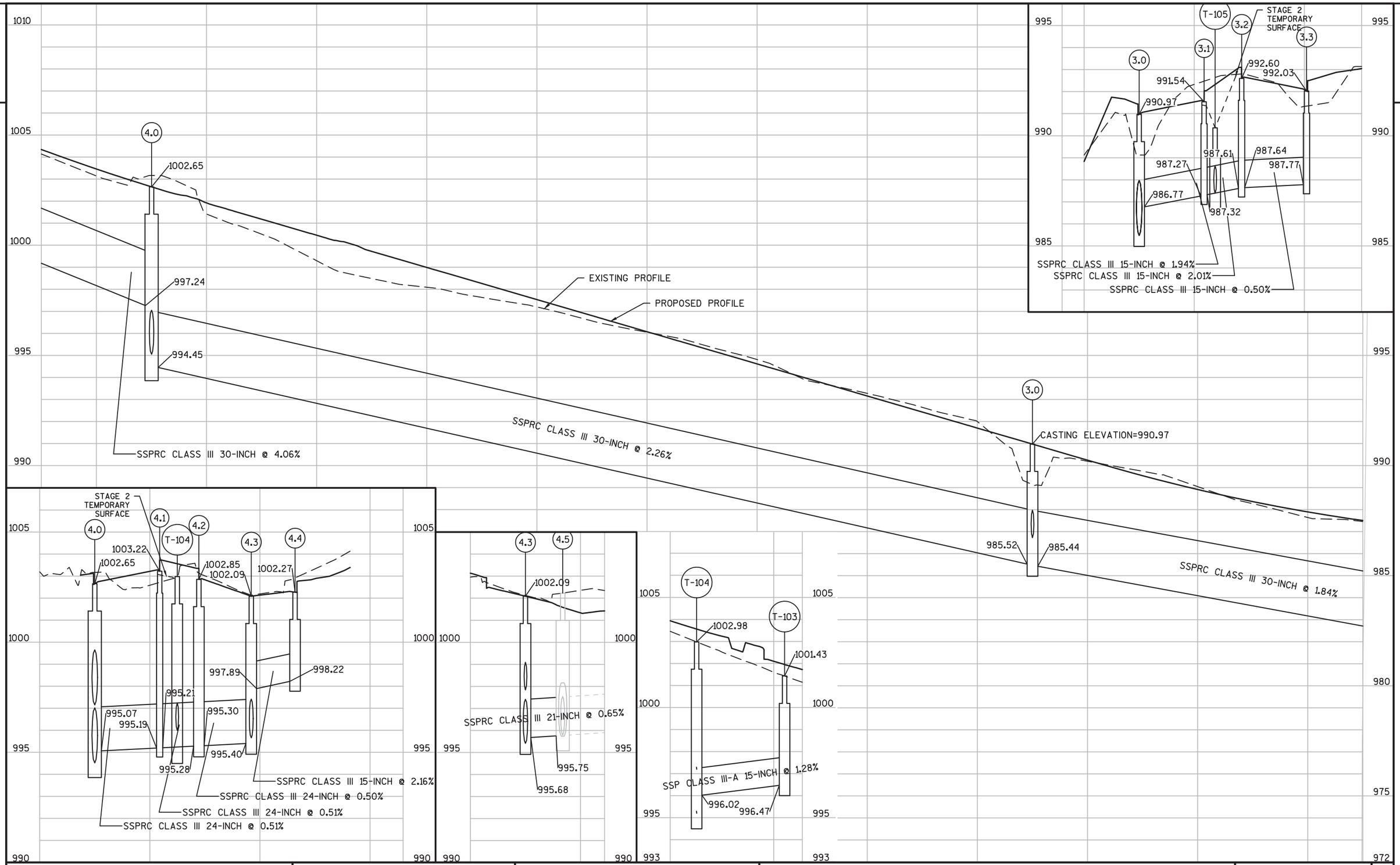
STA 146+00'WB', 1.0' RT
INLETS 2x3-H SPECIAL 3.1

STA 146+00'WB', 18.0' RT
INLETS 2x3-H SPECIAL 3.2

T-105 STA 146+00'WB', 6.0' RT
MANHOLES 4-TEMPORARY INLET COVER

STA 146+00'WB', 47.5' RT
INLETS 2x3-H SPECIAL 3.3

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	STORM SEWER	SHEET 128	E



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	STORM SEWER	SHEET 129	E

2

N

MUIR FIELD ROAD

56+00'CM

55+00'CM

54+00'CM

COUNTRY GROVE DRIVE

REMOVING SMALL PIPE CULVERTS

1.0 STA 148+20'WB', 61.9' LT
APRON ENDWALLS FOR CPRC 42-INCH

B-13-0848

16.0 STA 150+77'WB', 50.8' LT
CONNECT INTO BOX CULVERT B-13-0858

STA 151+98'WB', 64.0' LT 17.0
MANHOLES 6-J MODIFIED
STA 151+07'WB', 85.0' LT
MANHOLES 5-J MODIFIED

16.1

REMOVING STORM SEWER (24-INCH)

REMOVING INLETS

CONNECT INTO EXISTING 18-INCH PIPE @ 985.81

18.0 STA 152+43'WB', 63.0' LT
MANHOLES 5-H SPECIAL

18.1 STA 152+50'WB', 55.2' LT
TERRACE INLET TYPE 3 SPECIAL

STA 151+93'WB', 55.3' LT 17.1
TERRACE INLET TYPE 3 SPECIAL

STA 153+10'WB', 28.5' LT 20.4
INLETS 2x3-H SPECIAL

REMOVING STORM SEWER (18-INCH)

REMOVING INLETS

REMOVING STORM SEWER 12-INCH

STA 153+10'WB', 0.0'
MANHOLES 5-J MODIFIED 20.0

STA 152+65'WB', 11.0' LT 19.0
MANHOLES 4-H-S MODIFIED

REMOVING SMALL PIPE CULVERTS

STA 153+10'WB', 12.0' RT 20.1
INLETS 2x3-H SPECIAL

STA 153+10'WB', 17.9' RT 20.2
INLETS 2x3-H SPECIAL

STA 153+10'WB', 47.5' RT 20.3
INLETS 2x3-H SPECIAL

MATCH LINE STA. 147+50'WB'

148+06'WB', 28.5' LT 2.0
HOLES 6-H SPECIAL

STA 148+62'WB', 28.5' LT 11.0
MANHOLES 4-H-S SPECIAL

11.6 STA 148+72'WB', 28.5' LT
INLETS 2x3-H SPECIAL

11.1 STA 148+62'WB', 1.0' RT
MANHOLES 4-H-S SPECIAL

148+00'WB'

149+00'WB'

150+00'WB'

151+00'WB'

152+00'WB'

153+00'WB'

CTH PD WB

148+00'EB'

149+00'EB'

150+00'EB'

151+00'EB'

152+00'EB'

153+00'EB'

CTH PD EB

11.2 STA 148+85'WB', 9.8' RT
MANHOLES 4-H-S SPECIAL

STA 148+87'WB', 47.5' RT 11.5
INLETS 2x3-H SPECIAL

11.3 STA 148+97'WB', 47.5' RT
INLETS 2x3-H-S SPECIAL

11.4 STA 149+07'WB', 47.5' RT
INLETS 2x3-H SPECIAL

STA 151+51'WB', 67.0' RT 34.1
MANHOLES 4-J MODIFIED

STA 150+50'WB', 73.9' RT 34.2
INLETS 3-C

STA 151+59'WB', 67.1' RT 34.0
CONCRETE COLLAR

R/W

TLE

MATCH LINE STA. 153+50'WB'

· <<<>>><<<>>> · REMOVING STORM SEWER

* TEMPORARY CASTING TO BE PLACED DURING STAGE 2.
FINAL CASTING TO BE PLACED DURING STAGE 4.

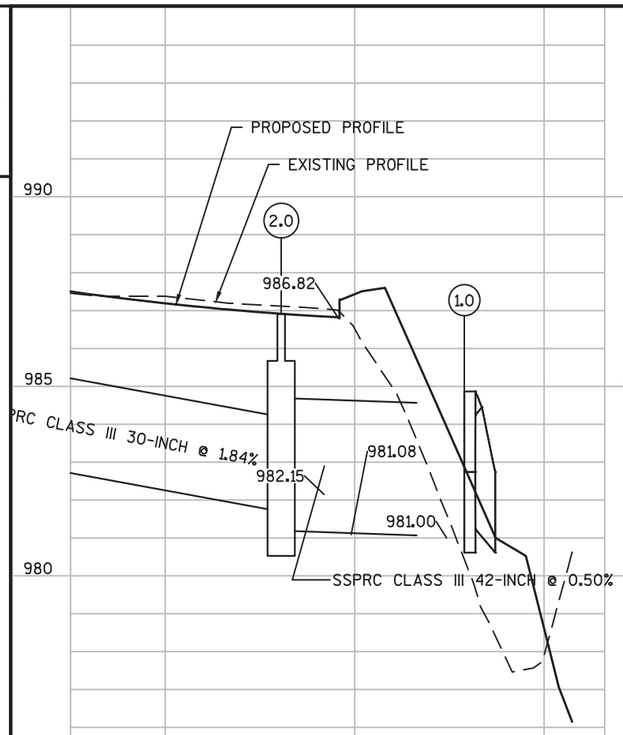
** TEMPORARY CASTING TO BE PLACED DURING STAGE 3.
FINAL CASTING TO BE PLACED DURING STAGE 4.

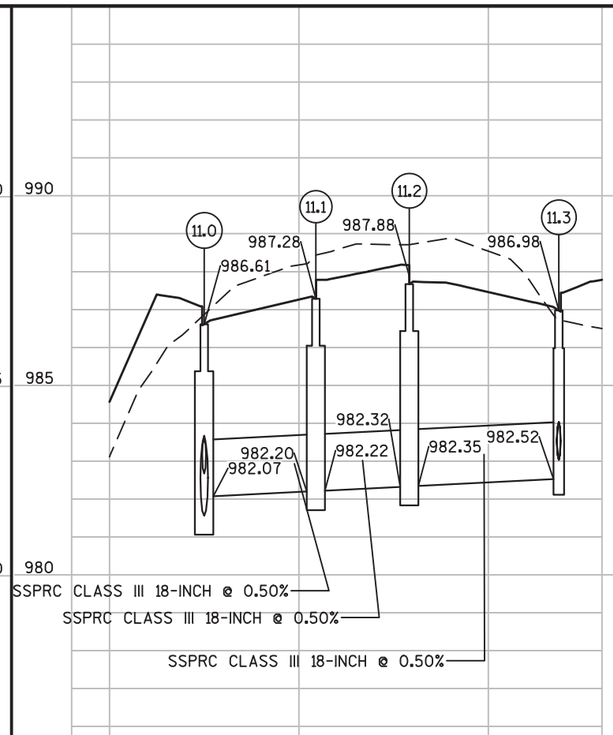
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	STORM SEWER	SHEET 130	E

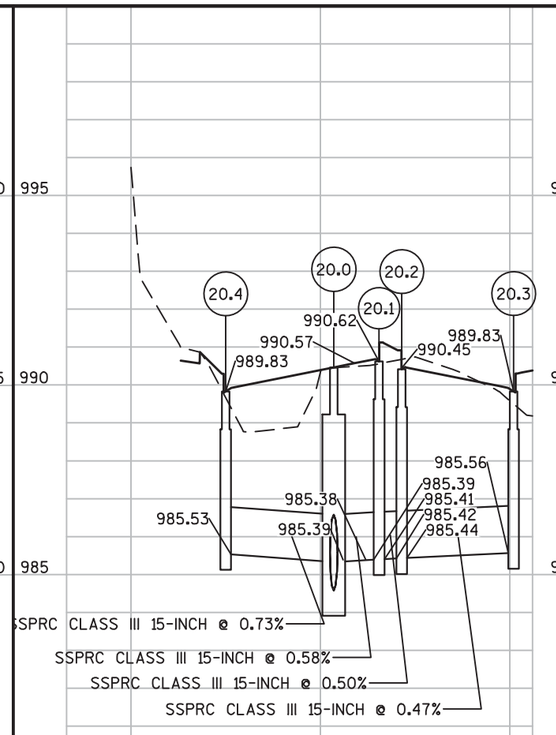
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\STORM SEWER\020202-SS.DWG
LAYOUT NAME - ****

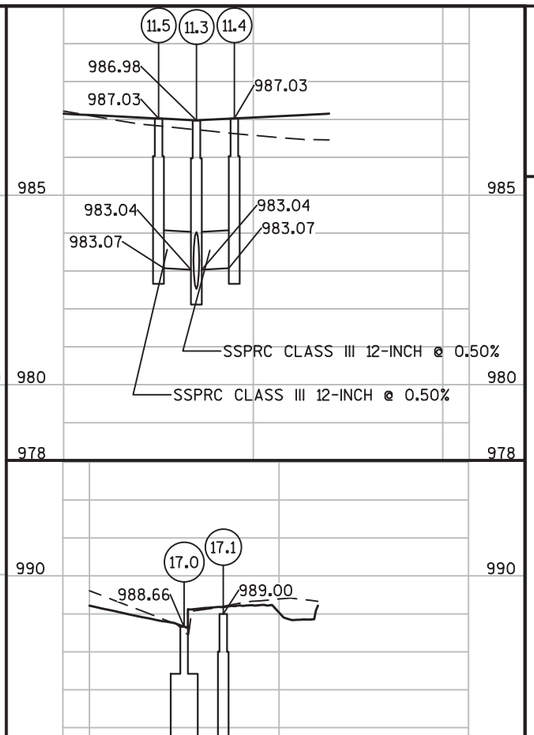
PLOT DATE : 11/30/2016 9:47 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

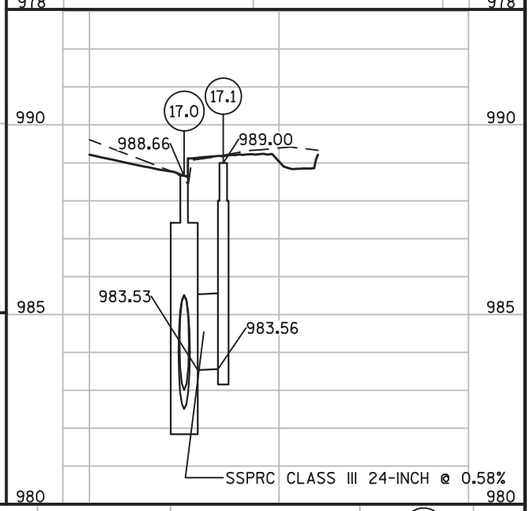
WISDOT/CADDS SHEET 42

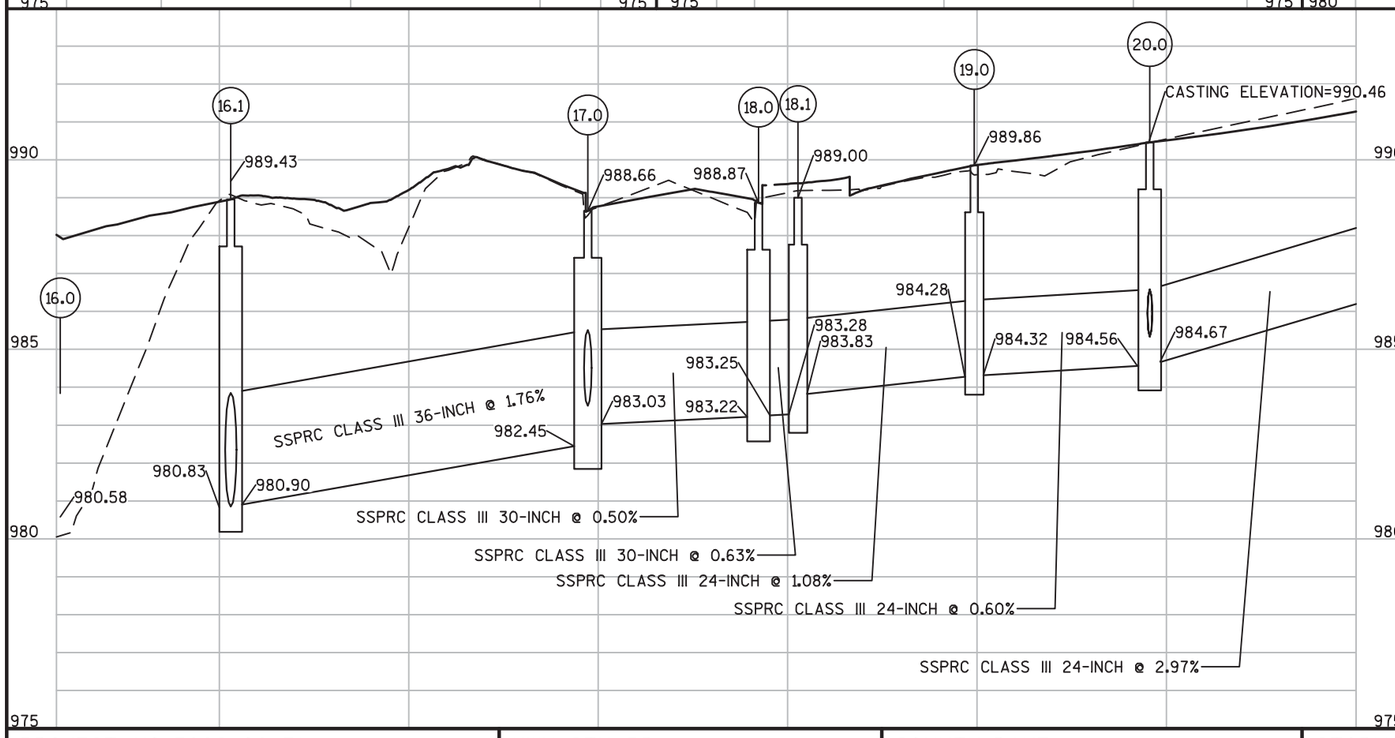


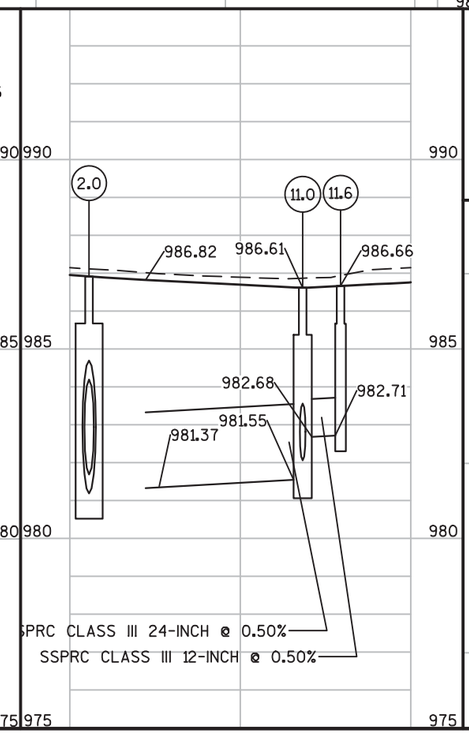


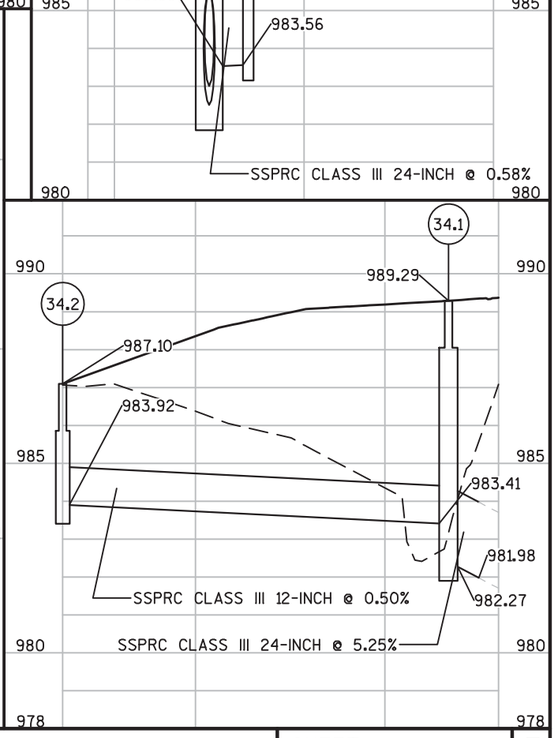












PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	STORM SEWER	SHEET 131	E

2

2

N

· <<◇>><<◇>> · REMOVING STORM SEWER

* TEMPORARY CASTING TO BE PLACED DURING STAGE 2.
FINAL CASTING TO BE PLACED DURING STAGE 4.

** TEMPORARY CASTING TO BE PLACED DURING STAGE 3.
FINAL CASTING TO BE PLACED DURING STAGE 4.

MATCH LINE STA. 153+50'WB'

CTH PD WB

CTH PD EB

154+00'WB' 155+00'WB' 156+00'WB' 157+00'WB' 158+00'WB' 159+00'WB'

154+00'EB' 155+00'EB' 156+00'EB' 157+00'EB' 158+00'EB' 159+00'EB'

R/W

TLE

21.3 STA 156+10'WB', 28.5' LT
INLETS 2x3-H SPECIAL

21.0 STA 156+10'WB', 5.3' RT
MANHOLES 4-H SPECIAL

21.1 STA 156+10'WB', 18.0' RT
INLETS 2x3-H SPECIAL

21.2 STA 156+10'WB', 47.5' RT
INLETS 2x3-H SPECIAL

22.3 STA 158+36'WB', 28.5' LT
INLETS 2x3-H SPECIAL

22.0 STA 158+36'WB', 5.6' RT
MANHOLES 4-H SPECIAL

22.1 STA 158+36'WB', 18.0' RT
INLETS 2x3-H SPECIAL

STA 158+36'WB', 12.0' RT
INLETS 2x3-H SPECIAL 22.4

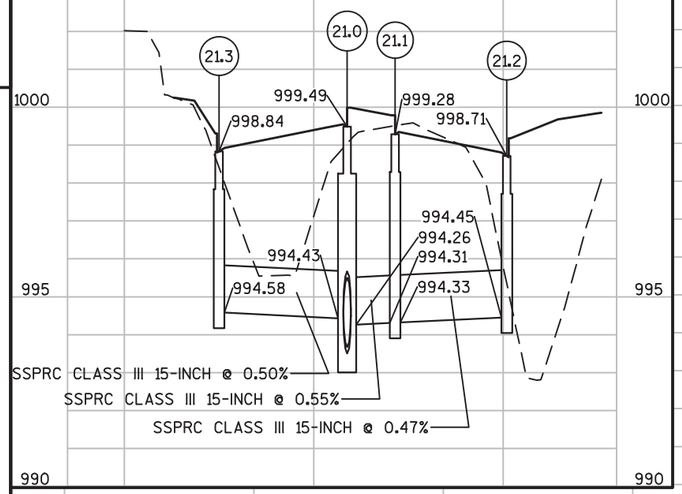
22.2 STA 158+36'WB', 53.6' RT
INLETS 2x3-H SPECIAL

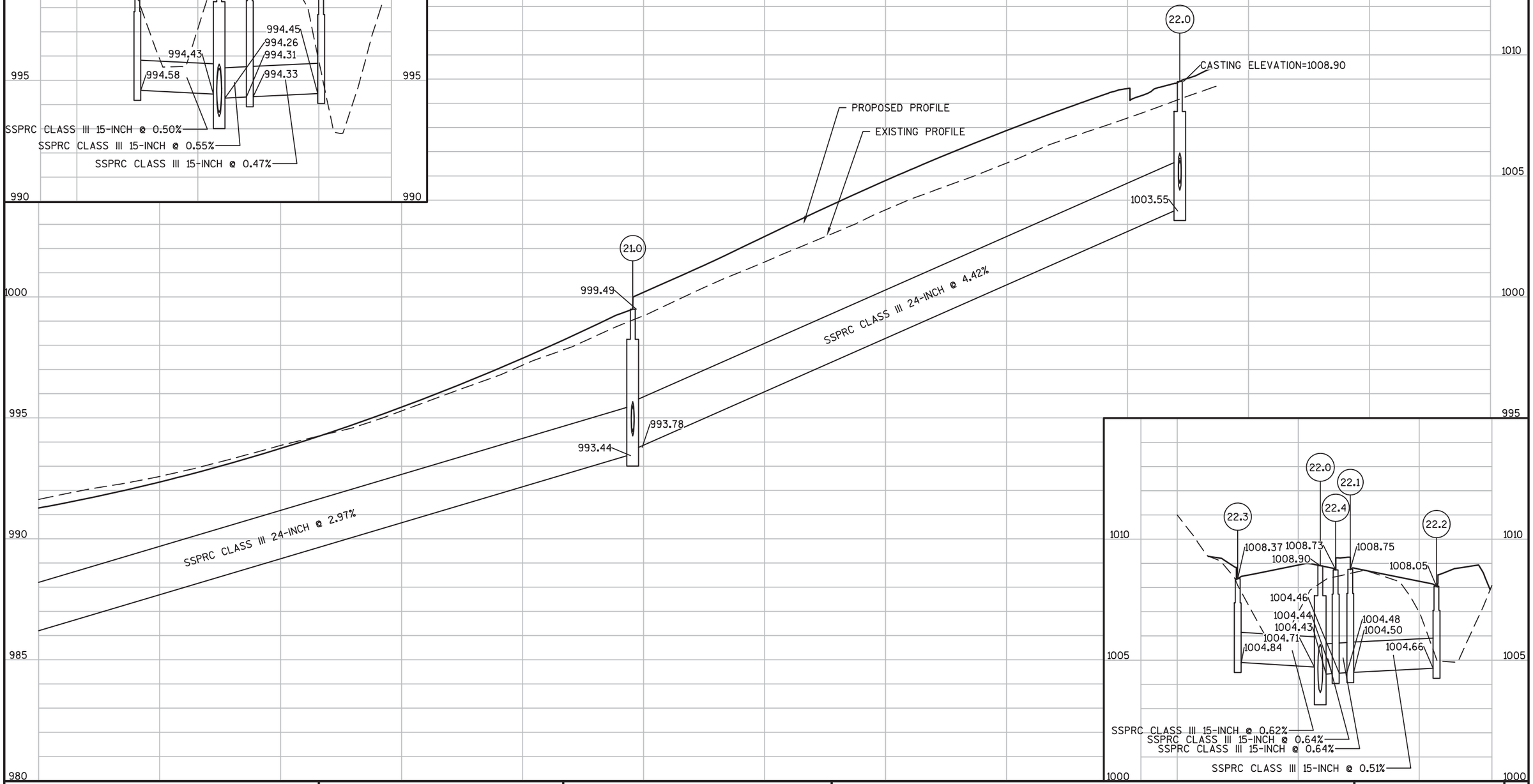
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	STORM SEWER	SHEET 132	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\STORM SEWER\020202-SS.DWG
LAYOUT NAME - ****

PLOT DATE : 11/30/2016 9:48 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42





PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	STORM SEWER	SHEET 133	E

2

2

· <<◇>><<◇>> · REMOVING STORM SEWER

* TEMPORARY CASTING TO BE PLACED DURING STAGE 2. FINAL CASTING TO BE PLACED DURING STAGE 4.

** TEMPORARY CASTING TO BE PLACED DURING STAGE 3. FINAL CASTING TO BE PLACED DURING STAGE 4.

N

SILVERTON TRAIL

74+00'TS'

73+00'TS'

71+00'TS'

TANGLEWOOD DRIVE

CTH PD WB

CTH PD EB

R/W

TLE

PLE

REMOVING SMALL PIPE CULVERTS

REMOVING INLETS

REMOVING STORM SEWER (15-INCH)

REMOVING STORM SEWER (24-INCH)

REMOVING MANHOLES

REMOVING STORM SEWER (24-INCH)

28.3 STA 168+52'WB', 62.1' LT
INLETS 2x3-H-S SPECIAL

28.2 STA 168+52'WB', 53.9' LT
MANHOLES 4-H SPECIAL

28.1 STA 168+10'WB', 28.5' LT
MANHOLES 4-H SPECIAL

28.4 STA 168+87'WB', 62.0' LT
INLETS 2x3-H SPECIAL

29.3 STA 165+11'WB', 28.5' LT
INLETS 2x3-H SPECIAL

29.0 STA 165+10'WB', 1.0' RT
MANHOLES 4-H SPECIAL

* 28.0 STA 168+10'WB', 1.0' RT
INLETS 2x3-H SPECIAL

29.1 STA 165+10'WB', 14.4' RT
INLETS 2x3-H SPECIAL

STA 165+10'WB', 6.0' RT
MANHOLES 4-TEMPORARY INLET COVER T-106

29.2 STA 165+09'WB', 43.9' RT
INLETS 2x3-H SPECIAL

28.6 STA 168+10'WB', 51.5' RT
MANHOLES 4-H SPECIAL

STA 167+97'WB', 76.7' RT
APRON ENDWALLS FOR CPRC 15-INCH 28.7

28.5 STA 168+10'WB', 11.0' RT **
INLETS 2x3-H SPECIAL

165+00'WB' 166+00'WB' 167+00'WB' 168+00'WB' 169+00'WB' 170+00'WB'

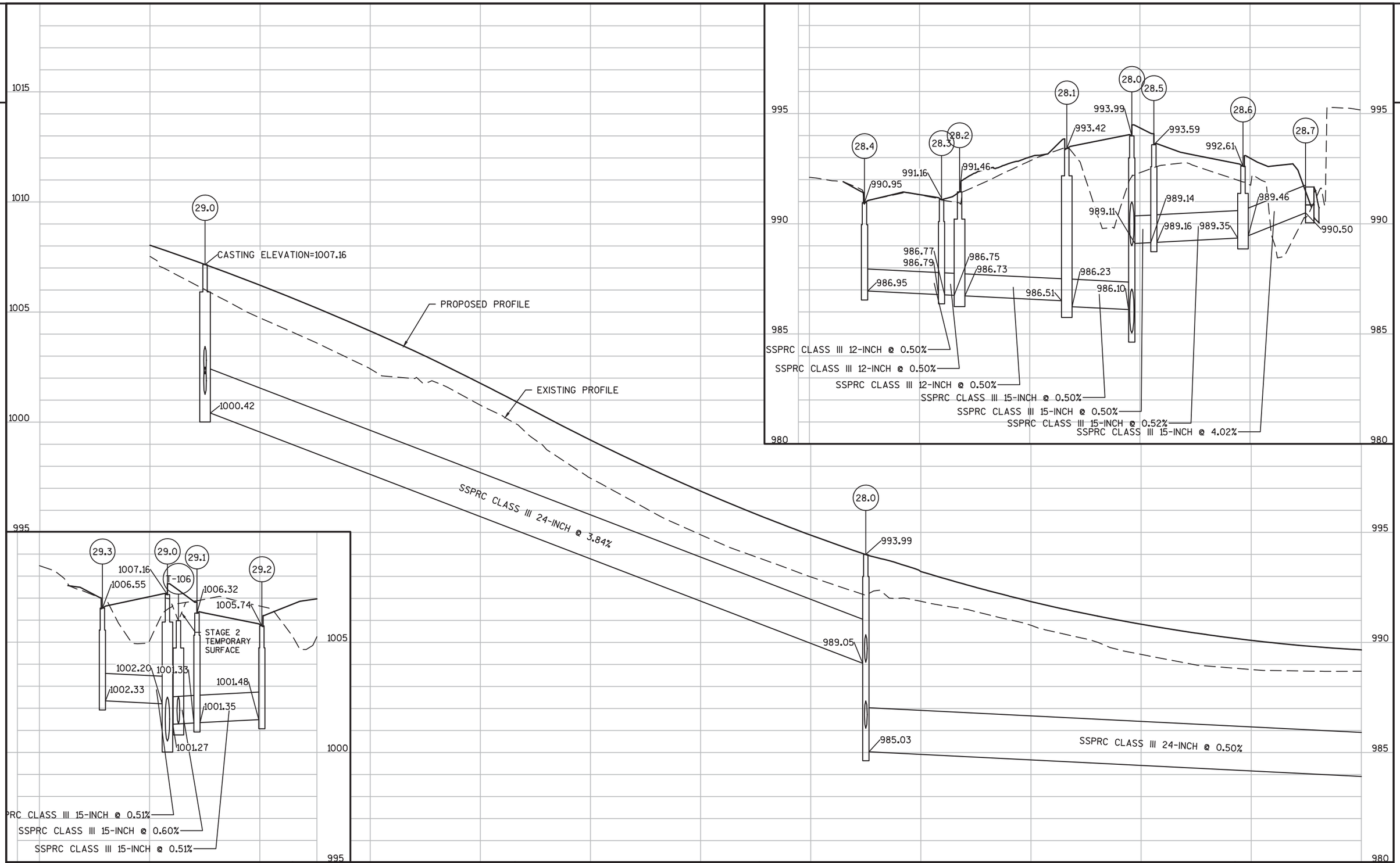
165+00'EB' 166+00'EB' 167+00'EB' 168+00'EB' 169+00'EB' 170+00'EB'

MATCH LINE STA. 170+25'WB'

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	STORM SEWER	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\STORM SEWER\020203-SS.DWG
LAYOUT NAME - ****

PLOT DATE : 11/30/2016 9:50 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	STORM SEWER	SHEET 135	E

2

2

· ‹‹◇››‹‹◇›› · REMOVING STORM SEWER

* TEMPORARY CASTING TO BE PLACED DURING STAGE 2.
FINAL CASTING TO BE PLACED DURING STAGE 4.

** TEMPORARY CASTING TO BE PLACED DURING STAGE 3.
FINAL CASTING TO BE PLACED DURING STAGE 4.

N

MATCH LINE STA. 170+25'WB'

27.4 STA 170+68'WB', 28.7' LT
INLETS 2x3-H SPECIAL

27.3 STA 170+78'WB', 28.7' LT
INLETS 2x3-H-S SPECIAL

27.5 STA 170+88'WB', 28.7' LT
INLETS 2x3-H-S SPECIAL

24.0 STA 171+30'WB', 24.8' LT
MANHOLES 4-J MODIFIED

REMOVING STORM SEWER (24-INCH)

REMOVING MANHOLES

27.0 STA 170+78'WB', 0.0'
MANHOLES 6-J MODIFIED

23.0 STA 171+38'WB', 24.8' LT
CONCRETE COLLAR

171+00'WB'

172+00'WB'

T-107 STA 170+78'WB', 6.0' RT
MANHOLES 4-TEMPORARY INLET COVER

171+00'EB'

172+00'EB'

27.2 STA 170+65'WB', 20.4' RT
MANHOLES 4-H SPECIAL

27.1 STA 170+78'WB', 12.0' RT
MANHOLES 4-H SPECIAL

REMOVING INLETS

30.3 STA 170+68'WB', 49.8' RT
INLETS 2x3-H-S SPECIAL

30.2 STA 170+78'WB', 49.6' RT
MANHOLES 4-H SPECIAL

REMOVING MANHOLES

30.4 STA 170+58'WB', 50.1' RT
INLETS 2x3-H SPECIAL

STA 171+20'WB', 72.6' RT
MANHOLES 4-J MODIFIED

30.1

30.0 STA 171+28'WB', 75.2' RT
CONCRETE COLLAR

REMOVING STORM SEWER (24-INCH)

R/W

CTH PD WB

173+00'WB'

174+00'WB'

CTH PD EB

173+00'EB'

174+00'EB'

R/W

STA 174+69'WB', 20.7' LT
CONCRETE COLLAR

31.0

REMOVING INLETS

REMOVING STORM SEWER (18-INCH)

32.3 STA 175+00'WB', 28.5' LT
INLETS 2x3-H SPECIAL

REMOVING STORM SEWER (21-INCH)

STA 175+00'WB', 20.3' LT
MANHOLES 4-J MODIFIED

32.0

33.0 STA 175+08'WB', 20.2' LT
CONCRETE COLLAR

175+00'WB'

176+00'WB'

32.1 STA 175+00'WB', 12.0' RT
INLETS 2x3-H SPECIAL

175+00'EB'

176+00'EB'

93+00'SD'

36.1 STA 175+08'WB', 48.3' RT
MANHOLES 5-H SPECIAL

STA 175+00'WB', 18.8' RT
INLETS 2x3-H SPECIAL

32.2

36.2 STA 175+16'WB', 47.5' RT
CONCRETE COLLAR

REMOVING INLETS

REMOVING STORM SEWER (36-INCH)

36.0 STA 175+00'WB', 48.3' RT
CONCRETE COLLAR

STONECREEK DRIVE

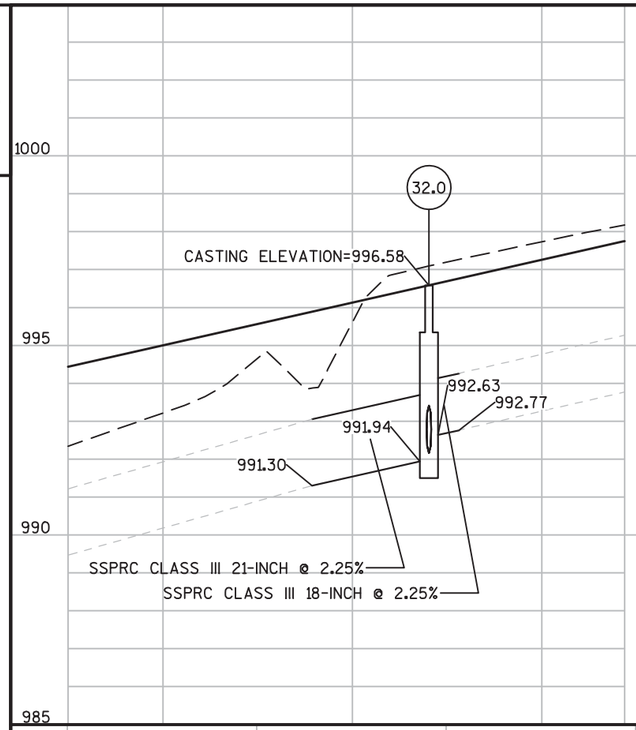
92+00'SD'

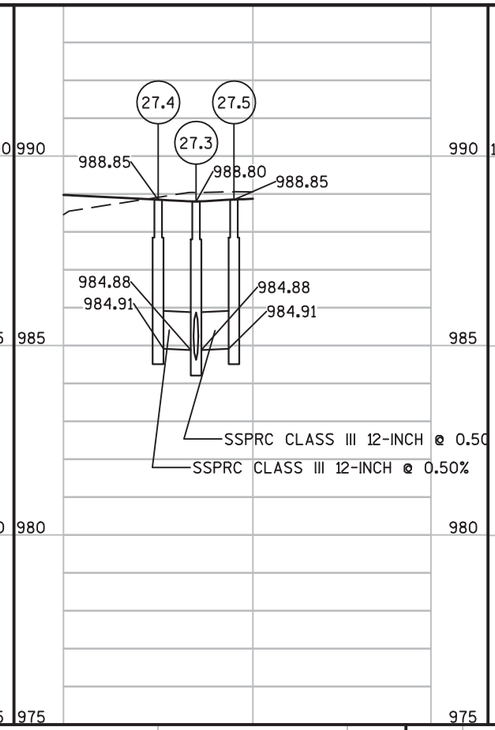
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	STORM SEWER	SHEET	E

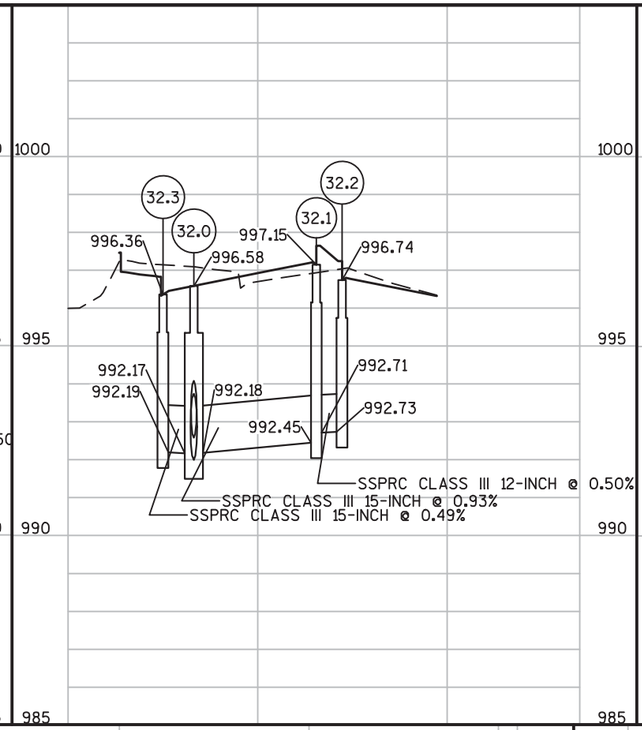
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\STORM SEWER\020203-SS.DWG
LAYOUT NAME - ****

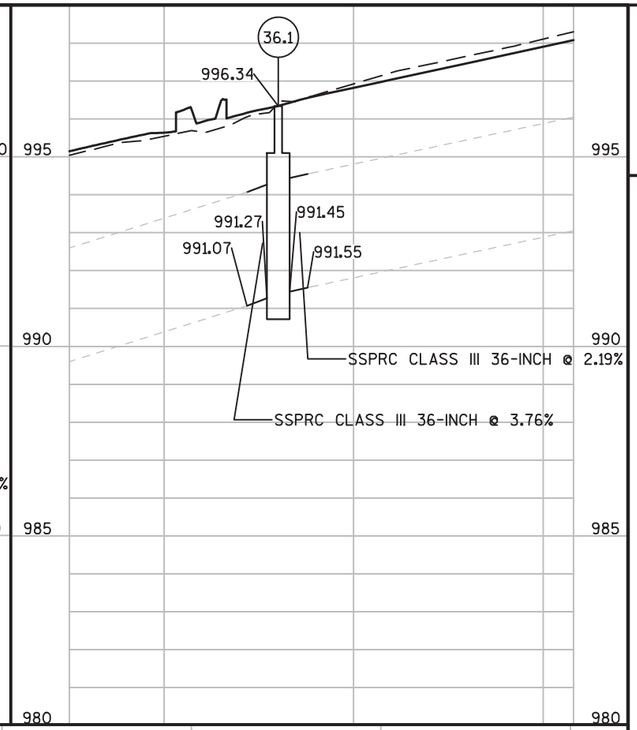
PLOT DATE : 12/5/2016 9:10 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

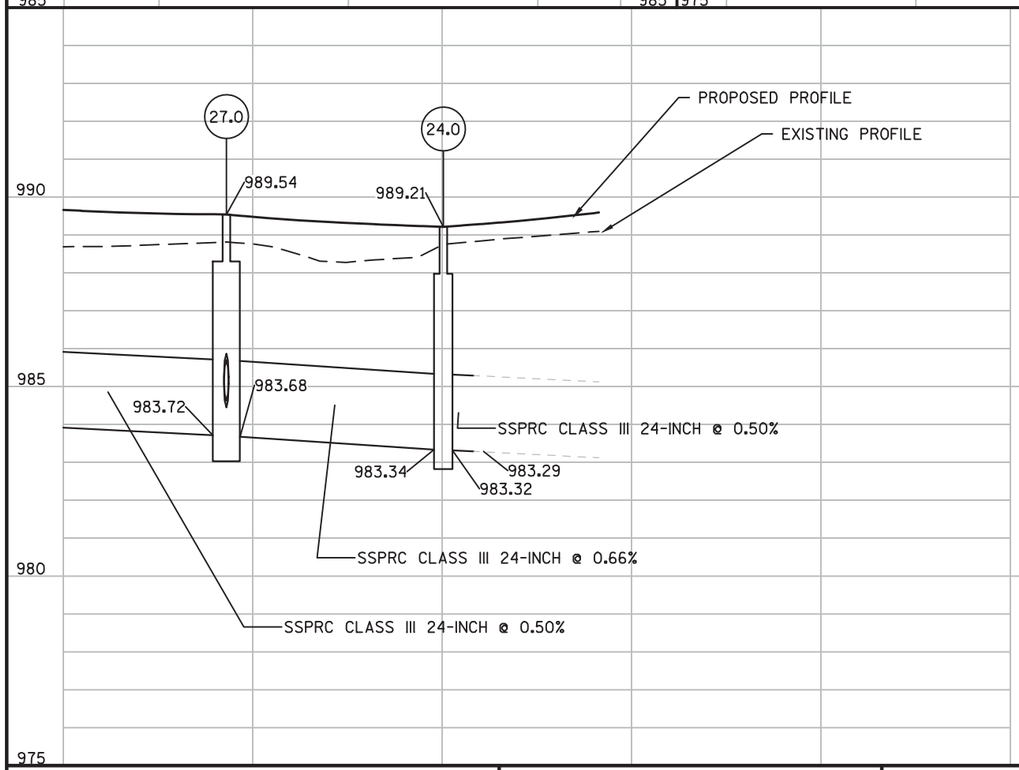
WISDOT/CADDS SHEET 42

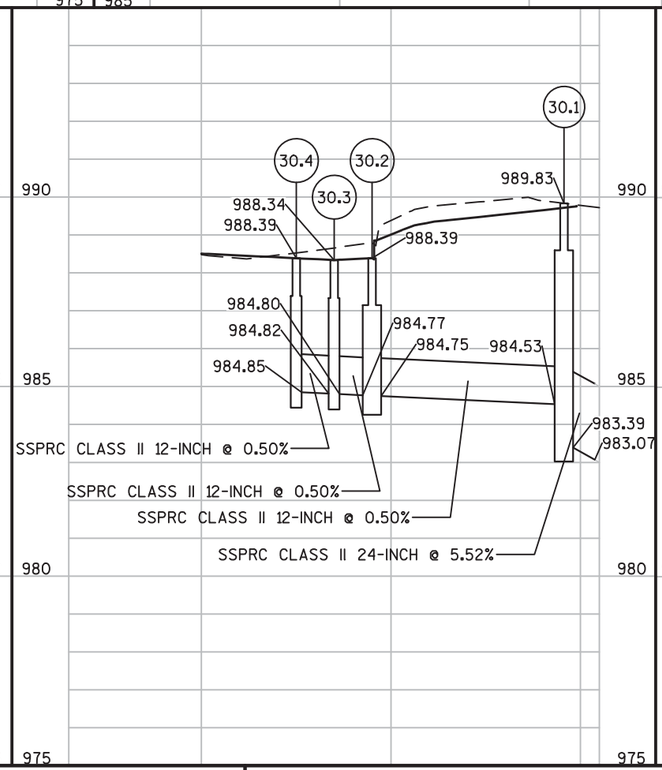

1000
995
990
985
32.0
CASTING ELEVATION=996.58
992.63
992.77
991.94
991.30
SSPRC CLASS III 21-INCH @ 2.25%
SSPRC CLASS III 18-INCH @ 2.25%

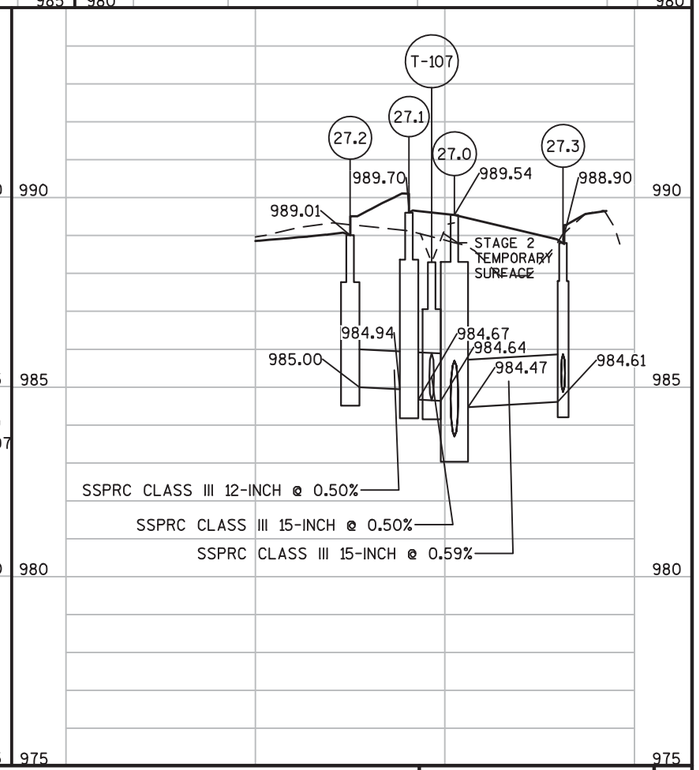

1000
990
985
980
975
27.4
27.5
27.3
988.85
988.80
988.85
984.88
984.91
984.88
984.91
SSPRC CLASS III 12-INCH @ 0.50
SSPRC CLASS III 12-INCH @ 0.50%


1000
995
990
985
32.3
32.0
32.2
32.1
996.36
996.58
997.15
996.74
992.17
992.19
992.18
992.71
992.73
992.45
SSPRC CLASS III 12-INCH @ 0.50%
SSPRC CLASS III 15-INCH @ 0.93%
SSPRC CLASS III 15-INCH @ 0.49%


995
990
985
980
36.1
996.34
991.27
991.45
991.07
991.55
SSPRC CLASS III 36-INCH @ 2.19%
SSPRC CLASS III 36-INCH @ 3.76%


990
985
980
975
27.0
24.0
PROPOSED PROFILE
EXISTING PROFILE
989.54
989.21
983.72
983.68
983.34
983.29
983.32
SSPRC CLASS III 24-INCH @ 0.50%
SSPRC CLASS III 24-INCH @ 0.66%
SSPRC CLASS III 24-INCH @ 0.50%


990
985
980
975
30.1
30.4
30.2
30.3
989.83
988.34
988.39
988.39
984.80
984.82
984.85
984.77
984.75
984.53
983.39
983.07
SSPRC CLASS II 12-INCH @ 0.50%
SSPRC CLASS II 12-INCH @ 0.50%
SSPRC CLASS II 12-INCH @ 0.50%
SSPRC CLASS II 24-INCH @ 5.52%


990
985
980
975
T-107
27.2
27.1
27.0
27.3
989.70
989.54
988.90
989.01
STAGE 2 TEMPORARY SURFACE
984.94
984.67
984.64
985.00
984.47
984.61
SSPRC CLASS III 12-INCH @ 0.50%
SSPRC CLASS III 15-INCH @ 0.50%
SSPRC CLASS III 15-INCH @ 0.59%

2

· <<<>>><<<>>> · REMOVING STORM SEWER

* TEMPORARY CASTING TO BE PLACED DURING STAGE 2.
FINAL CASTING TO BE PLACED DURING STAGE 4.

** TEMPORARY CASTING TO BE PLACED DURING STAGE 3.
FINAL CASTING TO BE PLACED DURING STAGE 4.

N

35.3 STA 177+99'WB', 28.5' LT
INLETS 2x3-H SPECIAL

35.2 STA 178+07'WB', 22.8' LT
CONCRETE COLLAR

EXISTING PLE

REMOVING INLETS

R/W

REMOVING STORM SEWER (15-INCH)

CTH PD WB

STA 177+91'WB', 22.2' LT
CONCRETE COLLAR 35.0

35.1 STA 177+99'WB', 22.4' LT
MANHOLES 4-J MODIFIED

177+00'WB' 178+00'WB' 179+00'WB'

177+00'EB' 178+00'EB' 179+00'EB'

CTH PD EB

STA 22+61'MD', 41.7' LT
INLETS 2x3-H SPECIAL 37.1

STA 22+61'MD', 26.6' LT
CONCRETE COLLAR 37.0

MAPLE GROVE DRIVE

23+00'MD'

22+00'MD'

PLE

R/W

TLE

CTH PD WB

185+00'WB' 186+00'WB' 187+00'WB'

185+00'EB' 186+00'EB' 187+00'EB'

2

1005 1000 995 990

35.1

CASTING ELEVATION=1003.22

998.24

997.98

998.37

997.86

SSPRC CLASS III 15-INCH @ 2.13%

SSPRC CLASS III 15-INCH @ 2.25%

1005 1000 995 990

35.1

35.3

1003.22

1003.03

998.30

998.29

SSPRC CLASS III 12-INCH @ 0.50%

1025 1020 1015 1010

37.1

1021.87

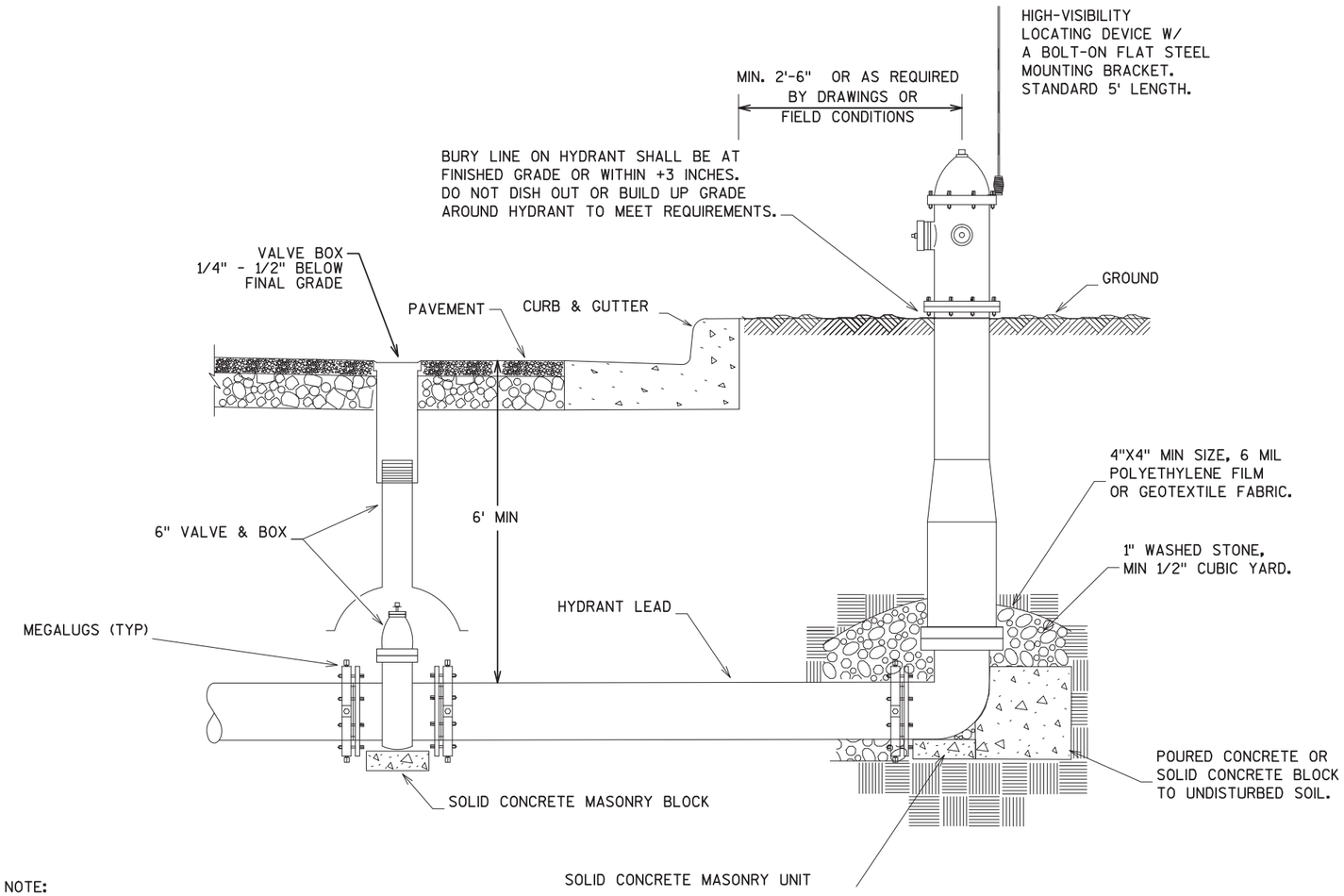
1018.66

1018.16

SSPRC CLASS III 12-INCH @ 3.64%

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	STORM SEWER	SHEET 138	E

2



TYPICAL HYDRANT INSTALLATION

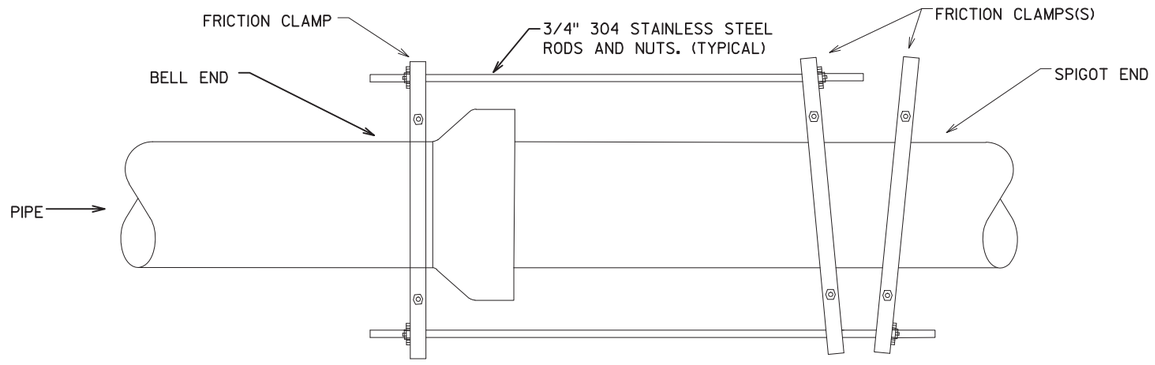
NOTE:

1. RESTRAIN ENTIRE LENGTH OF HYDRANT LEAD FROM THE TEE THROUGH THE VALVE TO THE HYDRANT AS SPECIFIED USING JOINT RESTRAINTS PER SECTION 703.10

2

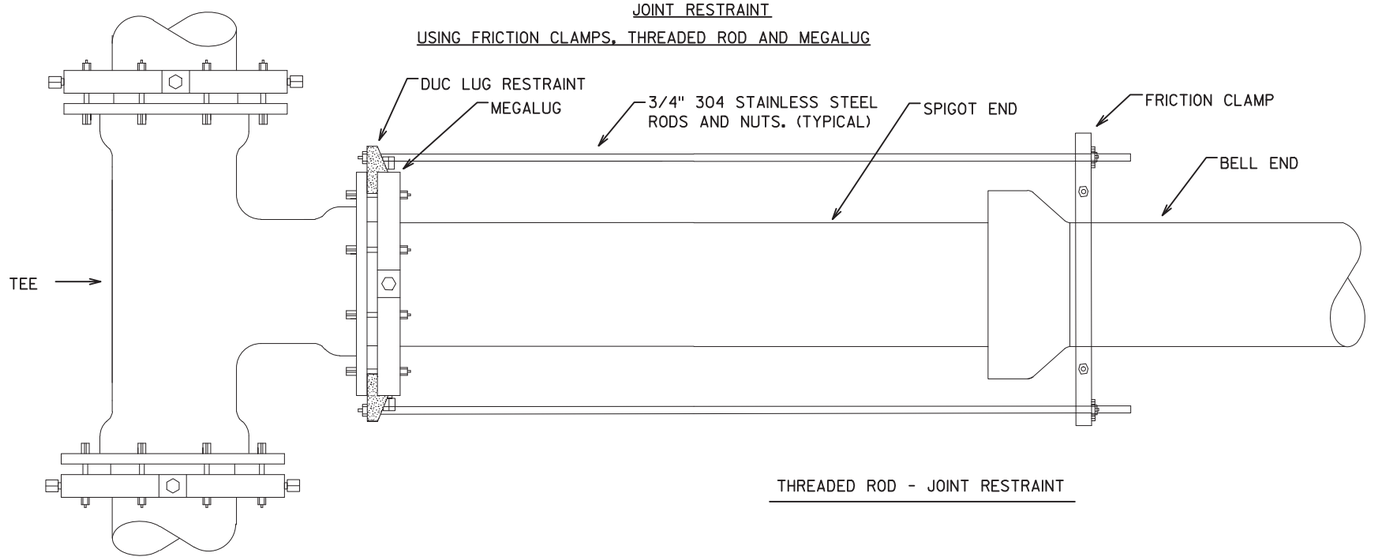
JOINT RESTRAINT

USING FRICTION CLAMPS AND THREADED ROD



JOINT RESTRAINT

USING FRICTION CLAMPS, THREADED ROD AND MEGALUG



THREADED ROD - JOINT RESTRAINT

FIELD INST

STEP-

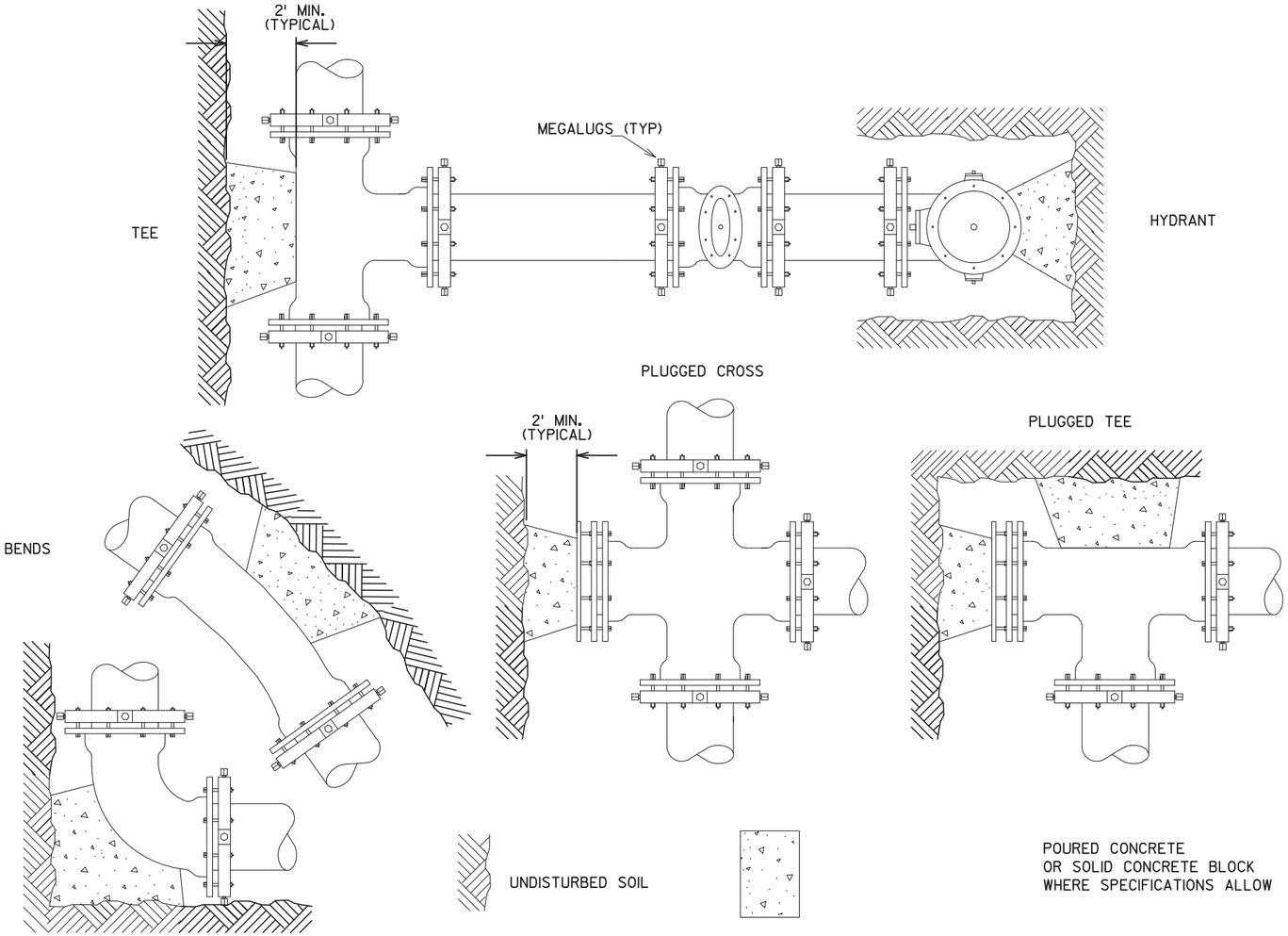
CLEA
TWO
PLAC
AROU
TREN

STEP-

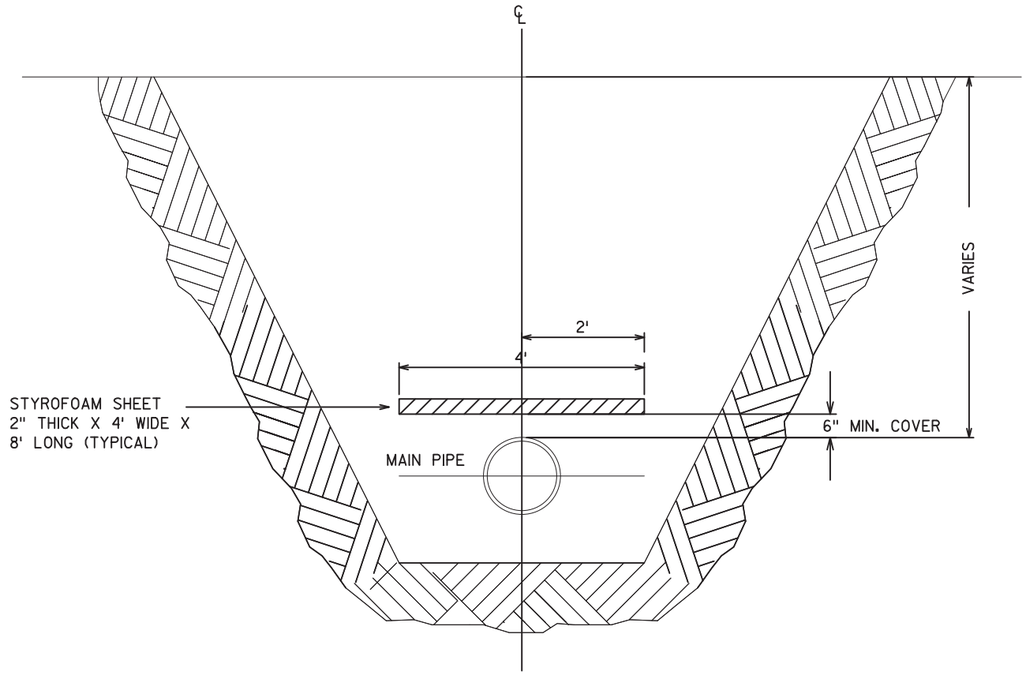
LIFT
TAPE
AROU
WRAP
OF T
PLAS

PROJECT NO:5992-09-32	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 140	E

2



STANDARD THRUST BLOCKING



NOTE: ALL STYROFOAM TO BE 2" THICK
HIGH DENSITY POLYSTYRENE BOARD

WATER MAIN INSULATION INSTALLATION

STEP
ADJA
SECU
POLY
PIPE
BE N
FOLD
AND
PLAS
REPA
POLY
AVOI

2

2

2

FIELD INSTALLATION-POLYETHYLENE WRAP

STEP-1

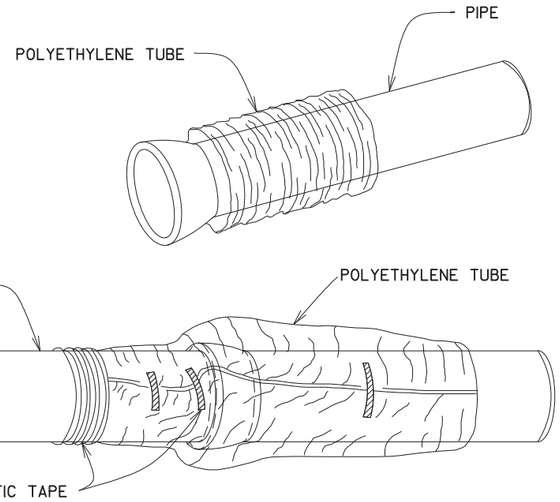
CLEAN SURFACE OF PIPE. CUT POLYETHYLENE TWO FEET LONGER THAN THE PIPE (8 MIL MIN.). PLACE TUBE OF POLYETHYLENE MATERIAL AROUND PIPE PRIOR TO LOWERING PIPE INTO TRENCH. DIG BELL HOLES AT JOINTS, LOWER PIPE.

STEP-2

LIFT ENOUGH TO PULL THE TUBE OVER THE PIPE. TAPE TUBE TO PIPE AT JOINT. FOLD MATERIAL AROUND THE ADJACENT SPIGOT END AND WRAP WITH THREE CIRCUMFERENTIAL TURNS OF TWO-INCH WIDE PLASTIC TAPE TO HOLD PLASTIC TUBE AROUND SPIGOT END.

STEP-3

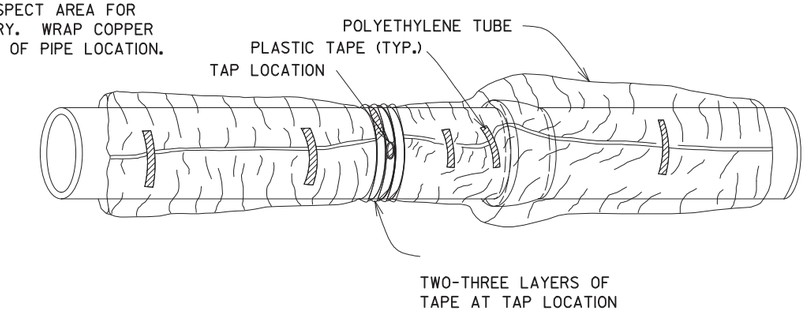
ADJACENT TUBE OVERLAPS FIRST TUBE AND IS SECURED WITH PLASTIC ADHESIVE TAPE. THE POLYETHYLENE TUBE MATERIAL COVERING THE PIPE WILL BE LOOSE. EXCESS MATERIAL SHALL BE NEATLY DRAWN UP AROUND THE PIPE BARREL, FOLDED INTO AN OVERLAP ON TOP OF THE PIPE AND HELD IN PLACE BY MEANS OF PIECES OF THE PLASTIC TAPE AT APPROX. THREE FOOT INTERVALS. REPAIR ANY TEARS WITH TAPE OR SECURED POLYWRAP PATCHES. CAREFULLY BACKFILL TO AVOID DAMAGING THE POLYETHYLENE WRAP.



TAPPING POLYETHYLENE WRAP

STEP-1

WRAP TWO OR THREE LAYERS OF TAPE COMPLETELY AROUND PIPE WHERE TAPPING MACHINE WILL BE PLACED. MOUNT TAPPING MACHINE ON TAPED AREA AND TAP DIRECTLY THROUGH THE TAPE AND POLYETHYLENE WRAP. INSTALL CORPORATION STOP. INSPECT AREA FOR DAMAGE AND REPAIR IF NECESSARY. WRAP COPPER SERVICE LINE WITHIN THREE FEET OF PIPE LOCATION.



POLYETHYLENE WRAP / TAPPING POLYETHYLENE WRAP

PROJECT NO:5992-09-32	HWY:CTH PD	COUNTY:DANE	MUNICIPAL UTILITY PLAN	SHEET 143	E

2

NOTE

- ADJUST EXISTING VALVES & HYDRANTS AS NEEDED
- INSTALL WATER MAIN INSULATION OVER WATER MAIN WHERE PROPOSED STORM CROSSES WATER MAIN

N

MERITER WAY

STA. 111+14.39'WB'
17.57' LT
12-INCH X 12-INCH TEE
WITH 12-INCH MJ PLUG

STA. 111+02.38'WB'
16.62' LT
12-INCH 45° BEND

STA. 111+90.61'WB'
32.50' LT
HYDRANT
GROUND EL. 1036.30

INSTALL WATER MAIN INSULATION
ALL STORM SEWER CROSSINGS (TYP.)

STA. 110+95.23'WB'
9.51' LT
12-INCH MJ CAP

12-INCH WV

STA. 111+90.52'WB'
16.20' LT
12-INCH X 6-INCH TEE

6-INCH WV

FUTURE WATER MAIN
CONNECTION WITH
PROJECT ID 5992-09-81
(BY OTHERS)

111+00'WB' 112+00'WB' 113+00'WB' 114+00'WB' 115+00'WB' 116+00'WB'

111+00'EB' 112+00'EB' 113+00'EB' 114+00'EB' 115+00'EB' 116+00'EB'

CTH PD WB

CTH PD EB

MATCH LINE STA. 116+50'WB'

GUY

2

PROJECT NO:5992-09-32	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 144	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\023001-UP.DWG
LAYOUT NAME - ****

PLOT DATE : 10/18/2016 3:51 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

1060
1055
1050
1045
1040
1035
1030
1025

EXISTING PROFILE OVER PROPOSED WATER MAIN

PROPOSED PROFILE OVER PROPOSED WATER MAIN

PROPOSED STORM SEWER CROSSING

STA. 115+00'WB'
EL. 1044.00

STA. 114+05'WB'
EL. 1038.59

STA. 113+22'WB'
EL. 1034.51

STA. 112+57'WB'
EL. 1031.56

STA. 111+31'WB'
EL. 1026.98

STA. 111+06'WB'
EL. 1026.08

TOP OF PROPOSED WATER MAIN

PROPOSED STORM SEWER

2

PROJECT NO:5992-09-32	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 145	E

2

2

N

ICE AGE JUNCTION PATH

STA. 116+59.94'WB'
32.49' LT
MJ CAP FOR FUTURE
PRIVATE VAULT

STA. 116+79.94'WB'
32.49' LT
MJ CAP FOR FUTURE
PRIVATE VAULT

STA. 117+00.00'WB'
32.50' LT
HYDRANT
GROUND EL. 1065.81

INSTALL WATER MAIN INSULATION
ALL STORM SEWER CROSSINGS (TYP.)

STA. 122+00.00'WB'
32.50' LT
HYDRANT
GROUND EL. 1091.72

MATCH LINE STA. 116+50'WB'

12-INCH WV

12-INCH WV

STA. 117+00.00'WB'
15.28' LT
12-INCH X 6-INCH TEE
W/ 6-INCH VALVE

STA. 116+80.00'WB'
15.27' LT
12-INCH X 12-INCH TEE
W/ 12-INCH VALVE N (CLOSED)

STA. 116+60.00'WB'
15.26' LT
12-INCH X 12-INCH TEE
W/ 12-INCH VALVE N (CLOSED)

CTH PD WB

CTH PD EB

STA. 122+00.00'WB'
15.63' LT
12-INCH X 6-INCH TEE
6-INCH WV

12-INCH WV

MATCH LINE STA. 122+50'WB'

117+00'WB'
117+00'EB'
118+00'WB'
118+00'EB'
119+00'WB'
119+00'EB'
120+00'WB'
120+00'EB'
121+00'WB'
121+00'EB'
122+00'WB'
122+00'EB'

DRIVEWAY 122+00'DW'

PROJECT NO:5992-09-32	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 146	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\023001-UP.DWG
LAYOUT NAME - ****

PLOT DATE : 10/18/2016 3:51 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

1090
1085
1080
1075
1070
1065
1060
1055

EXISTING PROFILE OVER PROPOSED WATER MAIN

PROPOSED PROFILE OVER PROPOSED WATER MAIN

PROPOSED STORM SEWER CROSSING

STA. 120+01'WB'
EL. 1078.82

STA. 121+01'WB'
EL. 1081.18

STA. 122+01'WB'
EL. 1084.55

ROCK EXCAVATION FOR WATER MAIN
STA. 119+50'WB' TO 125+50'WB'

TOP OF PROPOSED WATER MAIN

EXISTING ROCK PROFILE OVER PROPOSED WATER MAIN

2

PROJECT NO:5992-09-32	HWY:CTH PD	COUNTY:DANE	MUNICIPAL UTILITY PLAN	SHEET 147	E

2

2

N

MINOR RETAINING WALL

ICE AGE JUNCTION PATH

ICE AGE NATIONAL SCENIC TRAIL

SNOWYCAP TRAIL

R-13-310

R-WAL

ICE AGE JUNCTION PATH

R-13-309

R-WAL

CTH PD WB

CTH PD EB

MATCH LINE STA. 122+50'WB'

123+00'WB'

123+00'EB'

124+00'WB'

124+00'EB'

125+00'WB'

125+00'EB'

126+00'WB'

126+00'EB'

127+00'WB'

127+00'EB'

128+00'WB'

128+00'EB'

MATCH LINE STA. 128+50'WB'

STA. 126+00.00'WB'
32.50' LT
HYDRANT
GROUND EL. 1091.93

STA. 126+00.00'WB'
15.98' LT
12-INCH X 6-INCH TEE

12-INCH WV

B-13-847
PEDESTRIAN BRIDGE OVER CTH PD

ICE AGE NATIONAL SCENIC TRAIL

PROJECT NO:5992-09-32	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 148	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\023001-UP.DWG
LAYOUT NAME - ****

PLOT DATE : 10/18/2016 3:52 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

1110

1105

1100

1095

1090

1085

1080

1075

EXISTING PROFILE OVER PROPOSED WATER MAIN

EXISTING ROCK PROFILE OVER PROPOSED WATER MAIN

PROPOSED PROFILE OVER PROPOSED WATER MAIN

STA. 123+01'WB'
EL. 1086.89

STA. 126+01'WB'
EL. 1087.79

STA. 127+01'WB'
EL. 1086.00

STA. 128+01'WB'
EL. 1083.29

ROCK EXCAVATION FOR WATER MAIN
STA. 119+50'WB' TO 125+50'WB'

TOP OF PROPOSED WATER MAIN

PROJECT NO:5992-09-32	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 149	E

2

2

STA. 23+25.00'HP'
24.17' LT
MJ CAP ON TEE

STA. 23+20.00'HP'
40.82' LT
HYDRANT
GROUND EL. 1046.75

STA. 23+20.00'HP'
24.17' LT
12-INCH X 6-INCH TEE
6-INCH WV

ADJUST MANHOLE COVERS
EX SAS 2473-004
EXISTING RIM = 1047.227
PROPOSED RIM = 1047.850

STA. 23+25.00'HP'
16.50' RT
MJ CAP ON TEE

STA. 23+20.00'HP'
30.50' RT
HYDRANT
GROUND EL. 1046.53

STA. 23+20.00'HP'
16.50' RT
8-INCH X 6-INCH TEE
6-INCH WV

23+00'HP'

22+00'HP'

21+00'HP'

SOUTH HIGH POINT ROAD

N

STA. 20+63.41'HP'
24.17' LT
12-INCH X 6-INCH TEE
6-INCH WV

SALVAGE EXISTING HYDRANT

STA. 20+63.41'HP'
54.52' LT
HYDRANT
GROUND EL. 1059.00

STA. 20+44.77'HP'
24.17' LT
12-INCH X 12-INCH TEE
W/12-INCH WV EAST

ADJUST VALVE BOX AND REPLACE
TOP SECTION AND LID

INSTALL WATER MAIN INSULATION
ALL STORM SEWER CROSSINGS (TYP.)

STA. 20+58.54'HP'
16.50' RT
8-INCH X 6-INCH TEE

STA. 20+58.54'HP'
32.22' RT
HYDRANT
GROUND EL. 1053.84

STA. 20+44.32'HP'
16.50' RT
12-INCH X 8-INCH TEE
8-INCH WV

STA. 20+16.87'HP'
24.17' LT
12-INCH 90° BEND

MATCH LINE STA. 128+50'WB'

MATCH LINE STA. 134+50'WB'

CTH PD WB

CTH PD EB

129+00'WB'
130+00'WB'
131+00'WB'
132+00'WB'
133+00'WB'
134+00'WB'

129+00'EB'
130+00'EB'
131+00'EB'
132+00'EB'
133+00'EB'
134+00'EB'

PROJECT NO:5992-09-32	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 150	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\023001-UP.DWG
LAYOUT NAME - ****

PLOT DATE : 10/18/2016 3:52 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

1080
1075
1070
1065
1060
1055
1050
1045
1040

STA. 129+00'WB'
EL. 1079.00

PROPOSED STORM
SEWER CROSSING

PROPOSED PROFILE
OVER PROPOSED
WATER MAIN

EXISTING PROFILE
OVER PROPOSED
WATER MAIN

SOUTH HIGH POINT ROAD PROFILE

STA. 20+17
EL. 1050.00

STA. 20+44
EL. 1049.01

TOP OF PROPOSED 8-INCH WATER MAIN

TOP OF PROPOSED 12-INCH WATER MAIN

STA. 23+25
EL. 1040.39

STA. 23+25
EL. 1040.30

TOP OF PROPOSED
WATER MAIN

PROPOSED STORM
SEWER CROSSING

STA. 133+35'WB'
EL. 1050.00

2

PROJECT NO:5992-09-32	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 151	E

2

2

N

STRATON WAY

ADJUST VALVE BOX
REPLACE TOP SECTION AND LID

CTH PD WB

CTH PD EB

MATCH LINE STA. 134+50'WB'

MATCH LINE STA. 140+50'WB'

135+00'WB' 136+00'WB' 137+00'WB' 138+00'WB' 139+00'WB' 140+00'WB'

135+00'EB' 136+00'EB' 137+00'EB' 138+00'EB' 139+00'EB' 140+00'EB'

PROJECT NO:5992-09-32	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 152	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\023001-UP.DWG
LAYOUT NAME - ****

PLOT DATE : 10/18/2016 3:52 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

MATCH LINE STA. 140+50'WB'

141+00'WB'

142+00'WB'

143+00'WB'

144+00'WB'

CTH PD WB

145+00'WB'

146+00'WB'

MATCH LINE STA. 146+50'WB'

141+00'EB'

142+00'EB'

143+00'EB'

144+00'EB'

145+00'EB'

146+00'EB'

CTH PD EB

ADJUST VALVE BOX AND REPLACE TOP SECTION AND LID

SNOWY PARKWAY

PROJECT NO:5992-09-32	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 153	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\023001-UP.DWG
LAYOUT NAME - ****

PLOT DATE : 10/18/2016 3:52 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTES:
CONTRACTOR SHALL NOTIFY RAY SCHNEIDER (608) 347-3628, RAYS@MMSDSEWER.ORG 5 DAYS PRIOR TO MAKING THE TAP CONNECTION TO ARRANGE FOR INSPECTION OF CONNECTION. TAP CONNECTION SHALL CONFORM TO ALL MMSD CONNECTION SPECIFICATION CRITERIA. ELEVATION OF TAP MAY NEED TO BE ADJUSTED TO MAKE SURE CONNECTION NOT MADE AT A BARREL JOINT.

STA 55+51'CM', 7.7' LT
SANITARY SEWER ACCESS STRUCTURE (4-FOOT DIAMETER) - J MODIFIED
SAS #2

STA 55+65'CM', 57.6' LT
EXISTING MANHOLE
EX. SAS 2573-012

ABANDON SANITARY SEWER-PLUG PIPE

INSTALL LANDSCAPE PROTECTION FENCE PRIOR TO SANITARY SEWER CONSTRUCTION

EXISTING 8-INCH SANITARY SEWER PVC

EX. MMSD MH12-126A
STA 148+73'WB', 36.8' LT
EXISTING MANHOLE

INSTALL WATER MAIN INSULATION ALL STORM SEWER CROSSINGS (TYP.)

EX. 36" RCP MMSD

12"

EX. MMSD MH12-126A

STA 54+89'CM', 8.5' LT
SANITARY SEWER ACCESS STRUCTURE (4-FOOT DIAMETER) - J MODIFIED
SAS #1

REMOVE EXISTING 8-INCH SANITARY SEWER PVC

ABANDON SANITARY SEWER-PLUG PIPE

REMOVE EX 8" PVC SAN

10" - 350' @ 0.91%

REMOVE EX SAS 2573-011
RIM=989.08
EI(W)=978.48
EI(NW)=978.58
EI(N)=978.53

SAS #1

55+00'CM'

MATCH LINE STA. 146+50'WB'

147+00'WB' 148+00'WB' 149+00'WB' 150+00'WB' 151+00'WB' 152+00'WB'

147+00'EB' 148+00'EB' 149+00'EB' 150+00'EB' 151+00'EB' 152+00'EB'

CTH PD WB

CTH PD EB

HYDRANT

ADJUST VALVE BOX
REPLACE TOP SECTION AND LID

MUIR FIELD ROAD

COUNTRY GROVE DRIVE

MATCH LINE STA. 152+50'WB'

N

ADJUST MMSD RIM

EX. MMSD MH 12-126A
(DOGHOUSE STYLE MANHOLE)
STA. 148+73'WB' 37-FT LT
EX. RIM=987.26
PROP. RIM=987.38
INV.=970.86(36-INCH)(SE)
INV.=970.91(36-INCH)(NW)
INV.=973.71(8-INCH)(E) DROP
INV.=977.01(8-INCH)(E) DROP

PROPOSED PROFILE OVER PROPOSED SANITARY SEWER

EXISTING PROFILE OVER PROPOSED SANITARY SEWER

SAS #1
RIM=989.12

REM. EX. SAS#2573-011
RIM=989.08
INV.=978.48(W)
INV.=978.58(NW)
INV.=978.53(N)

PROPOSED BOX CULVERT B-13-0848
TWIN 4'X8' BOX EXTENSION

980.14

EX 8-INCH PVC SANTIARY

SANITARY TAP @ 973.81

10-INCH - 349-FT AWWA C900 DR 18 @ 0.91%

SAS #1
INV.=977.00(10-INCH)(W)
INV.=977.10(10-INCH)(N)

985
980
975
971

REMOVE OUTSIDE DROP AS-NEEDED.
INCIDENTAL TO TAP. PROVIDE KOR-N-SEAL

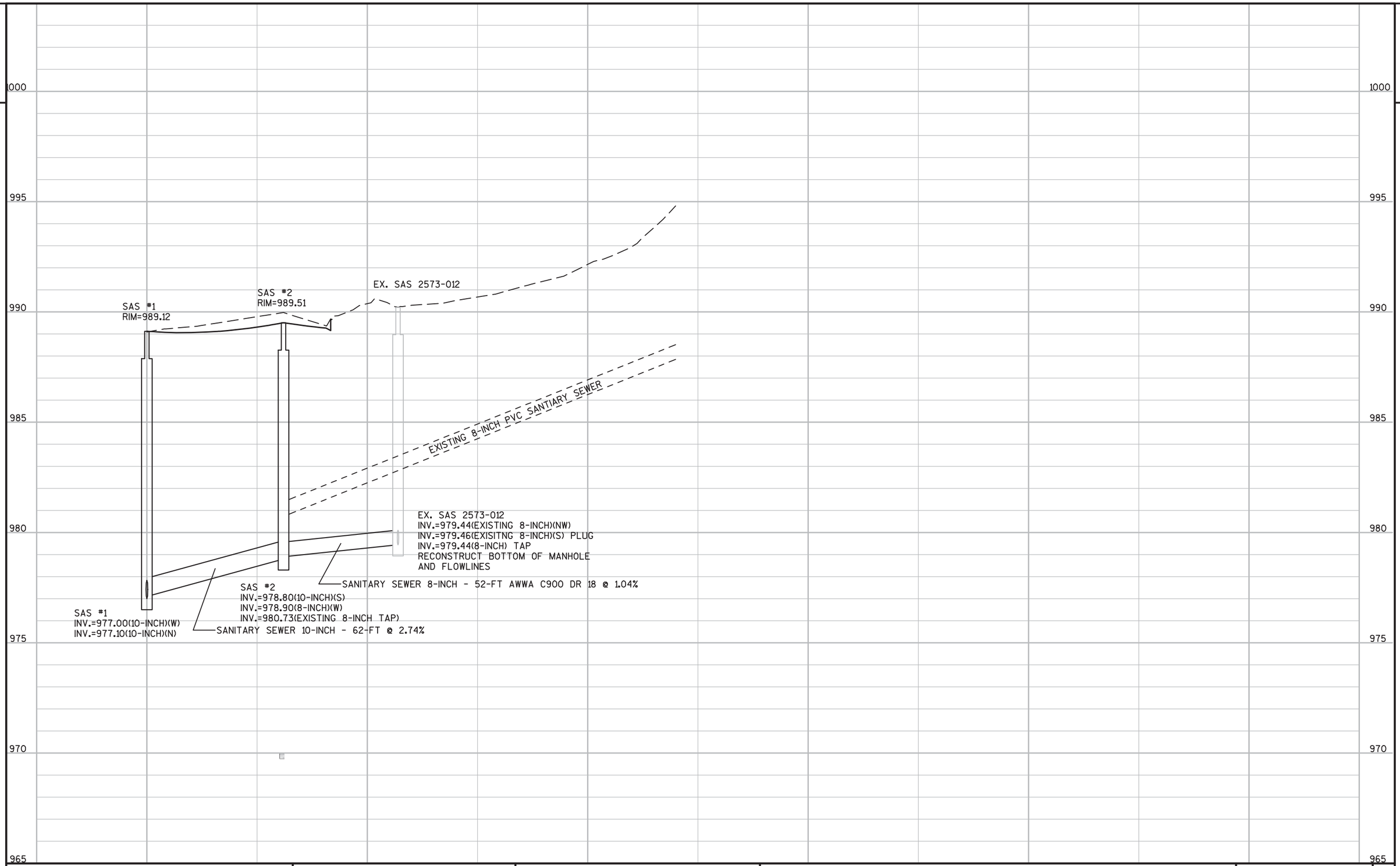
BOOT WITH SANITARY TAP CONNECTION
RECONSTRUCT BENCH & FLOWLINES (IF NEEDED)

PROJECT NO:5992-09-32	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 154	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\023001-UP.DWG
LAYOUT NAME - ****

PLOT DATE : 1/24/2017 12:02 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 155	E

2

2

N

ADJUST VALVE BOX
REPLACE TOP SECTION AND LID

INSTALL WATER MAIN INSULATION
ALL STORM SEWER CROSSINGS (TYP.)

ADJUST VALVE BOX
REPLACE TOP SECTION AND LID

MATCH LINE STA. 152+00'WB'

153+00'WB'
154+00'WB'
155+00'WB'
156+00'WB'
157+00'WB'
158+00'WB'

153+00'EB'
154+00'EB'
155+00'EB'
156+00'EB'
157+00'EB'
158+00'EB'

CTH PD WB

CTH PD EB

MATCH LINE STA. 158+50'WB'

COUNTRY GROVE DRIVE

PROJECT NO:5992-09-32	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 156	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\023001-UP.DWG
LAYOUT NAME - ****

PLOT DATE : 10/18/2016 3:53 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

MATCH LINE STA. 158+50'WB'

ADJUST VALVE BOX
REPLACE TOP SECTION AND LID

ADJUST VALVE BOX
REPLACE TOP SECTION AND LID
(NOT SHOWN)

ADJUST MANHOLE COVERS
EX SAS 2673-028
EXISTING RIM = 1014.39
PROPOSED RIM = 1014.28

MH

ADJUST OR REPLACE 1-IN CURB BOX

ADJUST VALVE BOX
REPLACE TOP SECTION AND LID

ADJUST MANHOLE COVERS
EX SAS 2673-030
EXISTING RIM = 1013.58
PROPOSED RIM = 1013.47

ADJUST VALVE BOX
REPLACE TOP SECTION AND LID
(NOT SHOWN)

159+00'WB'
160+00'WB'
161+00'WB'
162+00'WB'
163+00'WB'
164+00'WB'

159+00'EB'
160+00'EB'
161+00'EB'
162+00'EB'
163+00'EB'
164+00'EB'

CTH PD WB

CTH PD EB

MATCH LINE STA. 164+50'WB'

PROJECT NO:5992-09-32	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 157	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\023001-UP.DWG
LAYOUT NAME - ####

PLOT DATE : 10/18/2016 3:53 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

ADJUST VALVE BOX
REPLACE TOP SECTION AND LID
(NOT SHOWN)

ADJUST VALVE BOX
REPLACE TOP SECTION AND LID

ADJUST MANHOLE COVERS
EX SAS 2673-017
EXISTING RIM = 991.31
PROPOSED RIM = 991.65

PC: 73+45.67

SILVERTON TRAIL

73+00

74+00

ADJUST VALVE BOX
REPLACE TOP SECTION AND LID

ADJUST MANHOLE COVERS
EX SAS 2673-019
EXISTING RIM = 989.36
PROPOSED RIM = 989.52

STA. 169+36.22'WB'
32.57' LT
HYDRANT
GROUND EL. 990.84

MH

MH

HYDRANT

WV

STA. 169+36.22'WB'
20.40' LT
10-INCH X 6-INCH TEE
WITH 10-INCH MJ PLUG
6-INCH WV

INSTALL WATER MAIN INSULATION
ALL STORM SEWER CROSSINGS (TYP.)

ADJUST VALVE BOX
REPLACE TOP SECTION AND LID

MATCH LINE STA. 164+50'WB'

CTH PD WB

165+00'WB'

166+00'WB'

167+00'WB'

168+00'WB'

169+00'WB'

170+00'WB'

MATCH LINE STA. 170+50'WB'

165+00'EB'

166+00'EB'

167+00'EB'

168+00'EB'

PI: 72+13.69

169+00'EB'

170+00'EB'

CTH PD EB

72+00

TANGLEWOOD DRIVE

71+00

NOTE: THIS WM IS INSIDE 60-FT OF
24-IN CASING (NOT SHOWN)

PROJECT NO: 5992-09-32	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 158	E

2

2

N

ADJUST MANHOLE COVERS
EX SAS 2773-011
EXISTING RIM = 993.78
PROPOSED RIM = 994.00

MH

MATCH LINE STA. 170+50'WB'

171+00'WB'

172+00'WB'

173+00'WB'

174+00'WB'

175+00'WB'

176+00'WB'

CTH PD WB

171+00'EB'

172+00'EB'

173+00'EB'

174+00'EB'

175+00'EB'

176+00'EB'

EP: 93+07.94

93+00

CTH PD EB

MATCH LINE STA. 176+50'WB'

NOTE: THIS WM IS INSIDE 60-FT OF
30-IN CASING (NOT SHOWN)

ADJUST VALVE BOX
REPLACE TOP SECTION AND LID

STONECREEK DRIVE

92+00

PROJECT NO:5992-09-32	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 159	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\023001-UP.DWG
LAYOUT NAME - ****

PLOT DATE : 10/18/2016 3:54 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

ADJUST MANHOLE COVERS
EX SAS 2773-012
EXISTING RIM = 1002.83
PROPOSED RIM = 1002.67

MATCH LINE STA. 176+50'WB'

MATCH LINE STA. 182+50'WB'

CTH PD WB

CTH PD EB

177+00'WB' 178+00'WB' 179+00'WB' 180+00'WB' 181+00'WB' 182+00'WB'

177+00'EB' 178+00'EB' 179+00'EB' 180+00'EB' 181+00'EB' 182+00'EB'

PROJECT NO:5992-09-32	HWY:CTH PD	COUNTY:DANE	MUNICIPAL UTILITY PLAN	SHEET 160	E

2

2

N

MATCH LINE STA. 182+50'WB'

ADJUST VALVE BOX
REPLACE TOP SECTION AND LID

STA. 22+34.61'MG'
31.52' LT
EXTEND LEAD
TO HYDRANT

STA. 22+34.61'MG'
46.57' LT
HYDRANT
GROUND EL. 1020.42

6"

ADJUST VALVE BOX
REPLACE TOP SECTION AND LID

NOTE: ZONE BOUNDARY VALVE MUST
REMAIN CLOSED AT ALL TIMES

NOTE: THIS WM IS INSIDE 60-FT OF
24-IN CASING (NOT SHOWN)

ADJUST VALVE BOX
REPLACE TOP SECTION AND LID

NOTE: ZONE BOUNDARY VALVE MUST
REMAIN CLOSED AT ALL TIMES

MAPLE GROVE DRIVE

23+00'MG'

22+00'MG'

21+00'MG'

CTH PD WB

CTH PD EB

183+00'WB' 184+00'WB' 185+00'WB' 186+00'WB' 187+00'WB'

183+00'EB' 184+00'EB' 185+00'EB' 186+00'EB' 187+00'EB'

PROJECT NO:5992-09-32	HWY: CTH PD	COUNTY: DANE	MUNICIPAL UTILITY PLAN	SHEET 161	E

SHEET KEY	
SYM	COMMON NAME
JH	Juniper, Hill Dundee
JM	Juniper, 'Mountbatten'
SB	Spruce, Black Hills

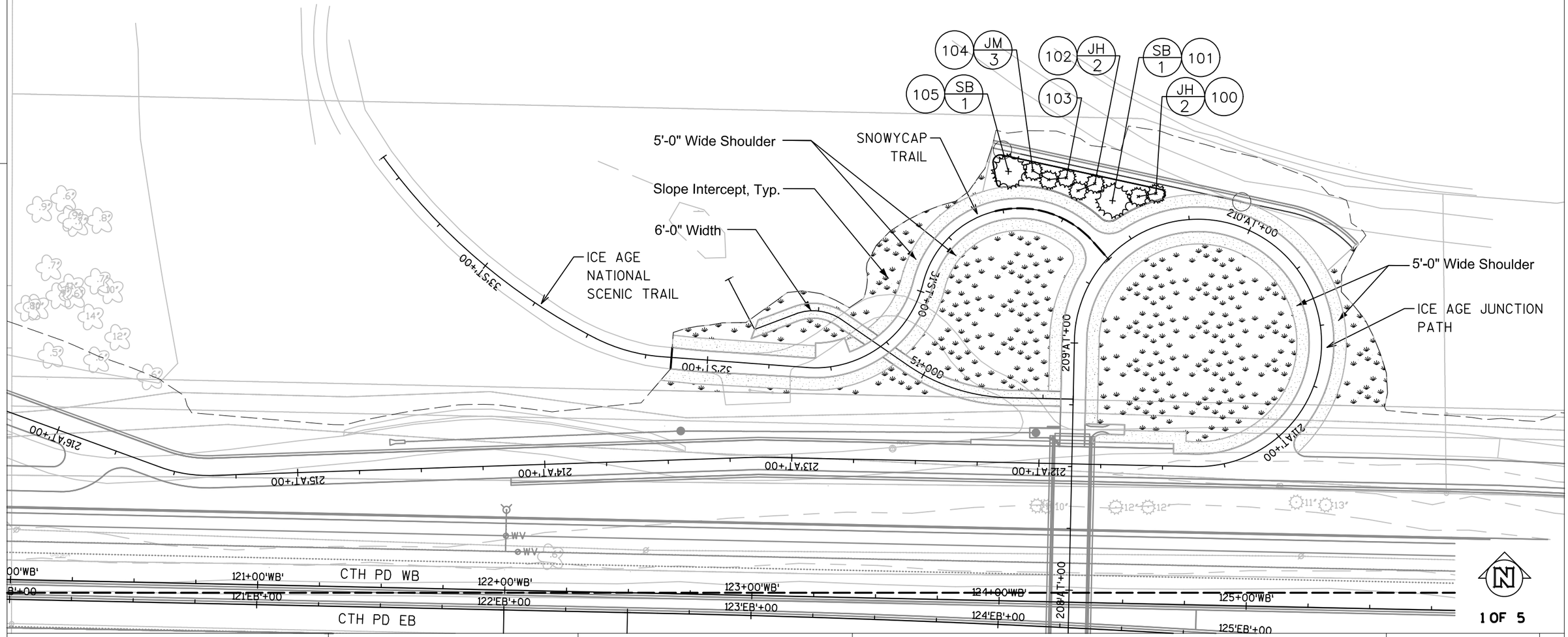
LEGEND

SALVAGED TOPSOIL (6" DEPTH) AND SEEDING MIXTURE, RANGE PASTURE

SALVAGED TOPSOIL (6" DEPTH), SEEDING MIXTURE, SHORT GRASS PRAIRIE, AND EROSION MAT, CLASS I, TYPE B FOR SHORT GRASS PRAIRIE

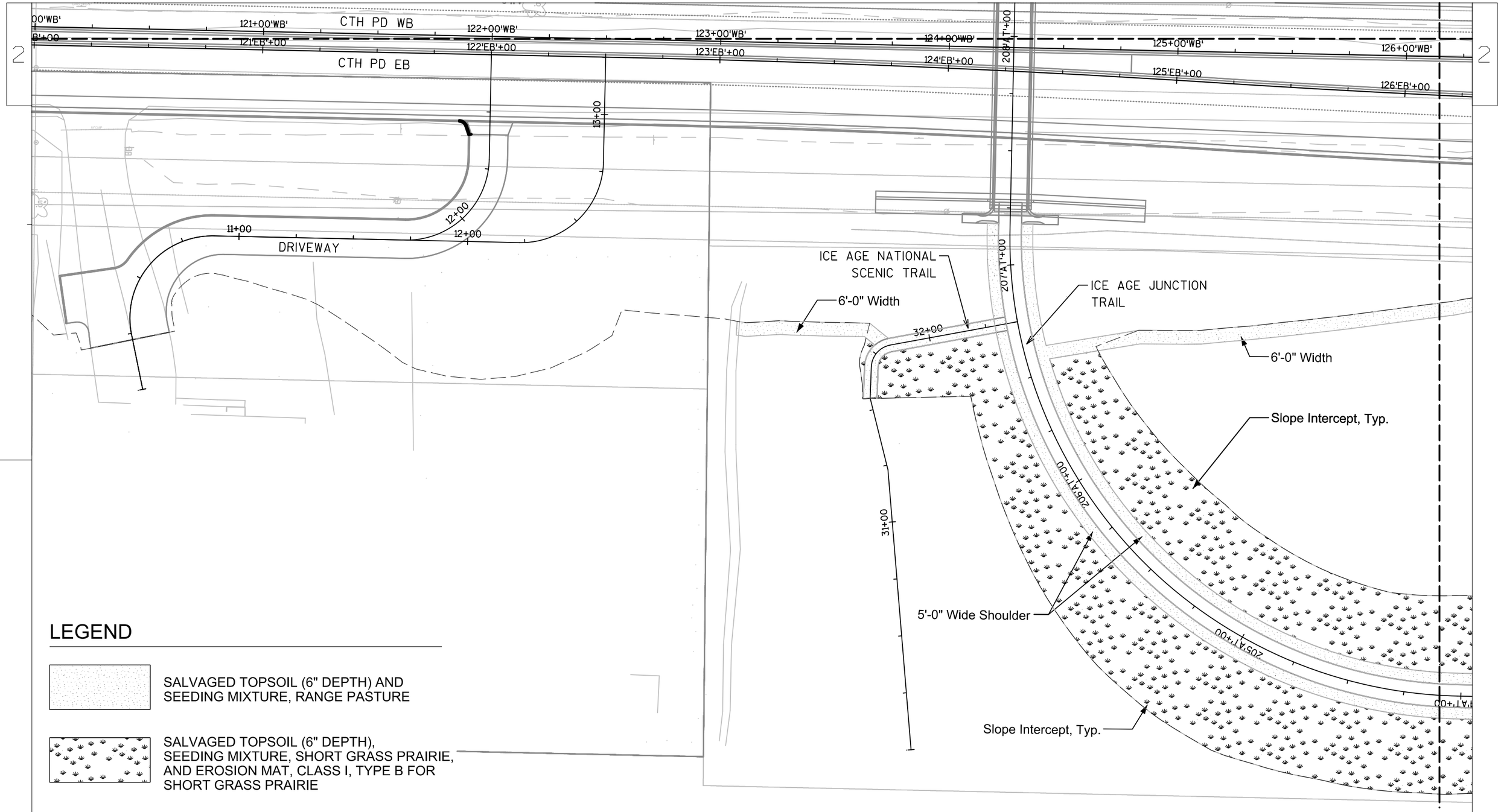
NOTES

1. REFER TO EROSION CONTROL PLANS FOR STANDARD SEEDING AND EROSION CONTROL MATERIALS.
2. ALL EVERGREEN TREES SHALL RECEIVE TOPSOIL SPECIAL.



1 OF 5

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	SPECIALTY SEEDING AND LANDSCAPING PLAN	SHEET 162



LEGEND

SALVAGED TOPSOIL (6" DEPTH) AND SEEDING MIXTURE, RANGE PASTURE

SALVAGED TOPSOIL (6" DEPTH), SEEDING MIXTURE, SHORT GRASS PRAIRIE, AND EROSION MAT, CLASS I, TYPE B FOR SHORT GRASS PRAIRIE

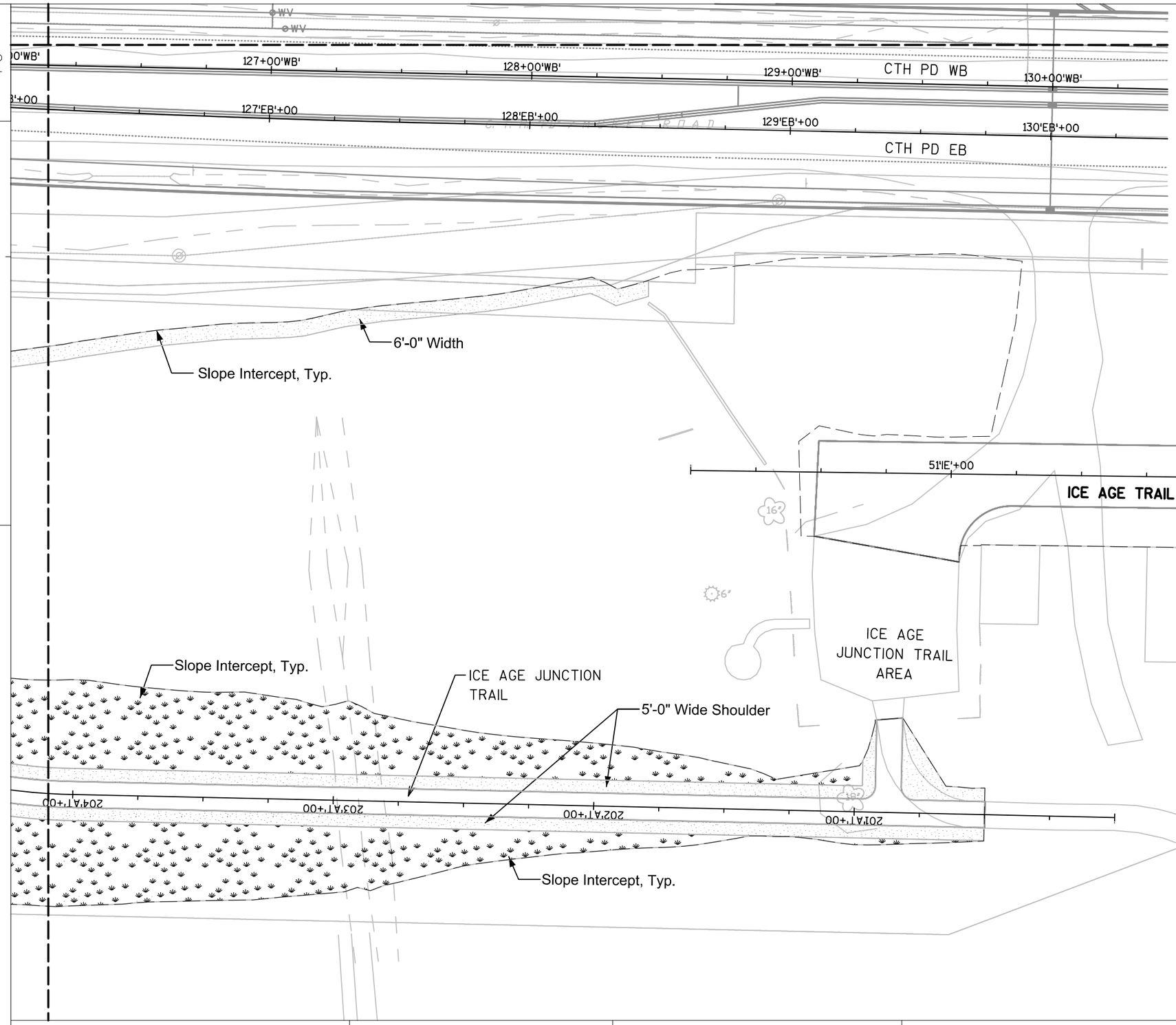
NOTES

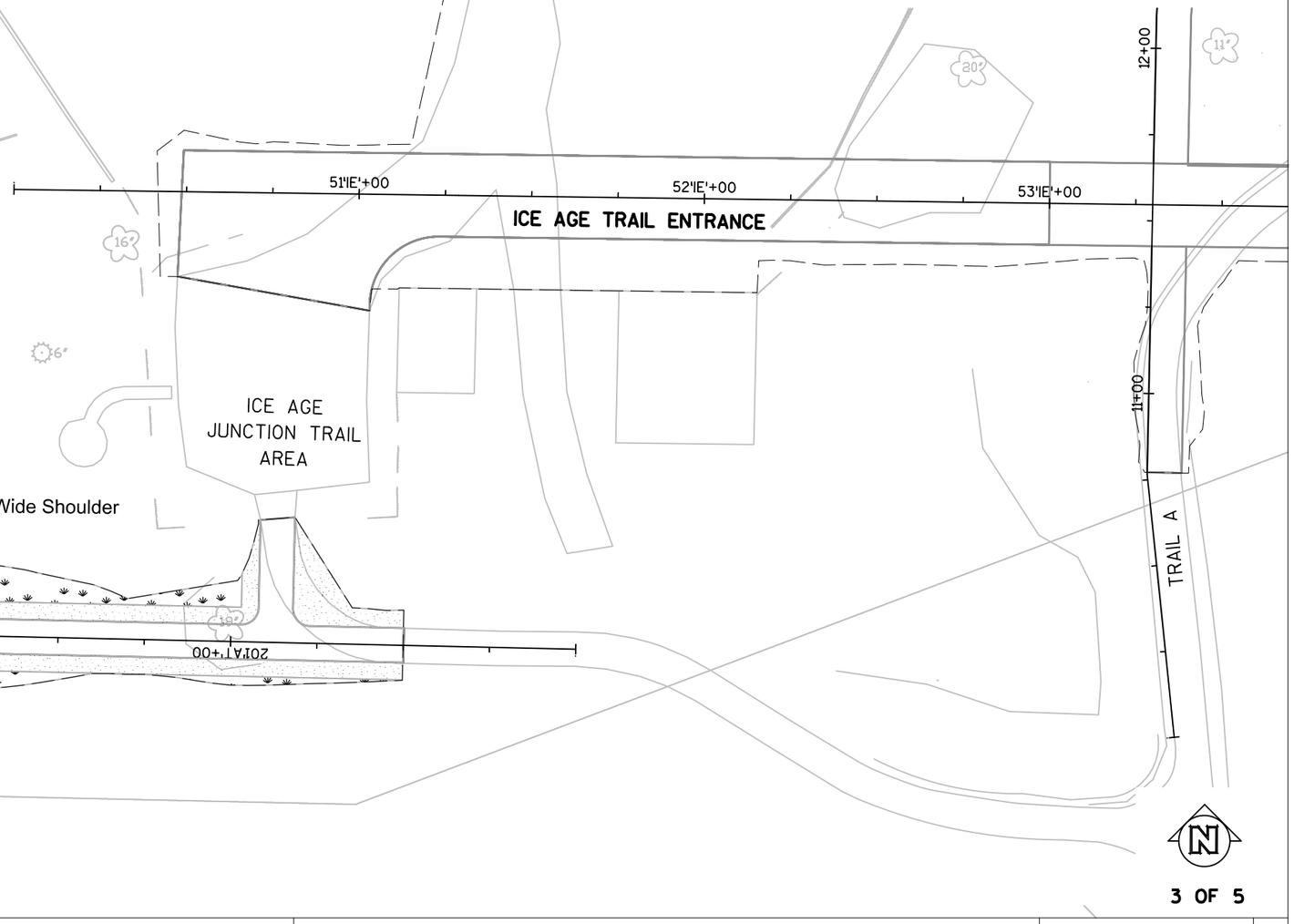
1. REFER TO EROSION CONTROL PLANS FOR STANDARD SEEDING AND EROSION CONTROL MATERIALS.

2 OF 5

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	SPECIALTY SEEDING AND LANDSCAPING PLAN	SHEET 163 E

FILE NAME : Q:2014-055 CTH PD, Maple Grove to CTH M\ 01-CAD \ 2014-055_ksd base.dgn PLOT DATE : 13-JAN-2017 PLOT BY : RdB PLOT NAME : _____ PLOT SCALE :





LEGEND

SALVAGED TOPSOIL (6" DEPTH) AND SEEDING MIXTURE, RANGE PASTURE

SALVAGED TOPSOIL (6" DEPTH), SEEDING MIXTURE, SHORT GRASS PRAIRIE, AND EROSION MAT, CLASS I, TYPE B FOR SHORT GRASS PRAIRIE

NOTES

1. REFER TO EROSION CONTROL PLANS FOR STANDARD SEEDING AND EROSION CONTROL MATERIALS.

N

3 OF 5

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	SPECIALTY SEEDING AND LANDSCAPING PLAN	SHEET 164 E

FILE NAME : Q:2014-055 CTH PD, Maple Grove to CTH M\ 01-CAD \ 2014-055_ksd base.dgn PLOT DATE : 13-JAN-2017 PLOT BY : RdB PLOT NAME : _____ PLOT SCALE :

WISDOT/CADDS SHEET 42

SHEET KEY	
SYM	COMMON NAME
HW	Hawthorn, 'Winter King'
Sg	Spirea, Goldflame

LEGEND

SHREDDED HARDWOOD BARK MULCH (3" DEPTH), DISTURBED PLANTING AREAS

SHREDDED HARDWOOD BARK MULCH (1" TOPDRESSING), UNDISTURBED PLANTING AREAS

NOTES

1. REFER TO EROSION CONTROL PLANS FOR STANDARD SEEDING AND EROSION CONTROL MATERIALS.
2. ALL ORNAMENTAL TREES AND SHRUBS SHALL RECEIVE TOPSOIL SPECIAL.

RE-SET SALVAGED AND STORED STONE COBBLES

3"DEPTH OF SHREDDED HARDWOOD BARK MULCH, DISTURBED AREA W/ NEW PLANTINGS, TYP.

EXISTING STONE COBBLES TO REMAIN, TYP.

1" DEPTH OF SHREDDED HARDWOOD BARK MULCH, UNDISTURBED ADJACENT BEDS WITH EXISTING PLANTS, TYP.

EXISTING STONE COBBLES TO REMAIN, TYP.

EXISTING STONE COBBLES TO REMAIN, TYP.

1" DEPTH OF SHREDDED HARDWOOD BARK MULCH, UNDISTURBED ADJACENT BEDS WITH EXISTING PLANTS, TYP.

Sg 2

HW 1

SN

WOOD FENCE

CNC. SIDEWALK

MUIR FIELD ROAD

MH

1+00

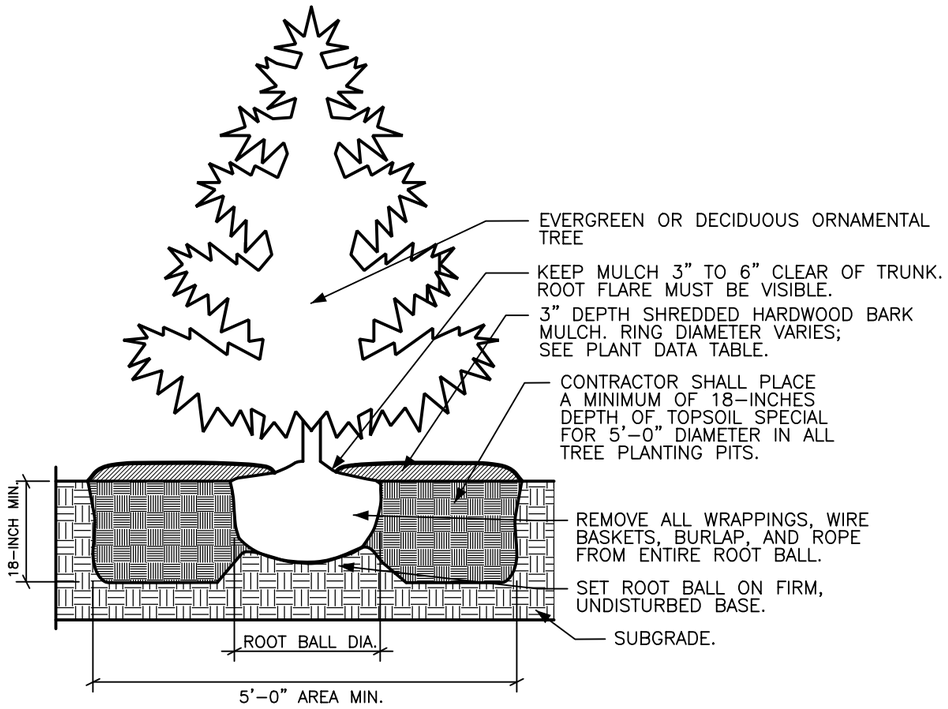
N

4 OF 5

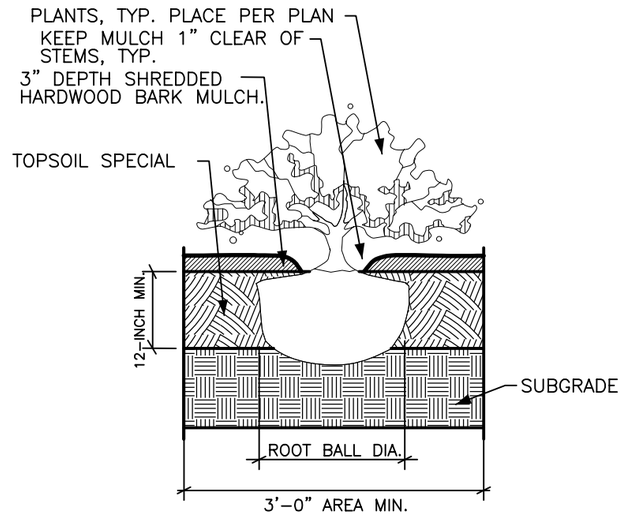
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	LANDSCAPE RESTORATION PLAN	SHEET

FILE NAME : Q:2014-055 CTH PD, Maple Grove to CTH M\ 01-CAD \ 2014-055_ksd base.dgn PLOT DATE : 13-JAN-2017 PLOT BY : RdB PLOT NAME : _____ PLOT SCALE :

WISDOT/CADDS SHEET 42



1 TREE PLANTING WITH TOPSOIL SPECIAL DETAIL
NOT TO SCALE



2 SHRUB PLANTING WITH TOPSOIL SPECIAL DETAIL
NOT TO SCALE

PLANT DATA TABLE

Symbol	Common Name	Scientific Name	Type	Average Mature Height	Size When Planted	Root Zone Mode	Minimum Size					Brace Or Guy	Fertilizer Units Required	Rodent Protection Required	Mulch Ring Required	Plant Bed Detail
							Ball/Pot		Root Spread	Plant Hole						
							Diameter	Depth		Diameter	Depth					
Evergreens																
JH	Juniper, Hill Dundee	*Juniperus virginiana 'Hillii'*	5E	10-15' Ht.	5' Ht.	B&B	20"	12"	----------	60"	18"	See SPV	3	No	48"	----------
JM	Juniper, 'Mountbatten'	*Juniperus chinensis 'Mountbatten'*	5E	12-14' Ht.	5' Ht.	B&B	20"	12"	----------	60"	18"	See SPV	3	No	48"	----------
SB	Spruce, Black Hills	*Picea glauca var. densata*	4E	40' Ht.	7' Ht.	B&B	27"	16"	----------	60"	18"	See SPV	4	No	60"	----------
	Deciduous Ornamental Trees															
HW	Hawthorn, 'Winter King'	*Crataegus viridis 'Winter King'*	3T	15'-20' Ht.	2.5" Cal	B&B	24"	14"	----------	48"	18"	See SPV	4	No	BED	----------
	Deciduous Ornamental Shrubs															
Sg	Spirea, Goldflame	*Spiraea x bumalda 'Goldflame'*	2S	2-3" Ht.	24" Sp. / #3	CG	12"	12"	----------	36"	12"	'----------	2	No	Bed	'----------

POINT	STATION	OFFSET	DESCRIPTION
100	30+6.67 'ST'	31.93' RT	EVERGREEN
101	30+14.74 'ST'	17.32' RT	EVERGREEN
102	30+21.23 'ST'	18.64' RT	EVERGREEN
103	30+28.97 'ST'	15.70' RT	EVERGREEN
104	30+38.46 'ST'	15.33' RT	EVERGREEN
105	30+45.90 'ST'	15.02' RT	EVERGREEN

2

2

RIP RAP

SIGN

MERITER WAY

CTH PD WB

CTH PD EB

MATCH LINE STA. 114+00'WB'

108+00'WB' 109+00'WB' 110+00'WB' 111+00'WB' 112+00'WB' 113+00'WB' 114+00'WB'

108+00'EB' 109+00'EB' 110+00'EB' 111+00'EB' 112+00'EB' 113+00'EB' 114+00'EB'

1R-01

1-01 R4-7 24"X30"

1-02 RIGHT LANE MUST TURN RIGHT R3-7-R 30"X30"

1-03 NO PARKING ANY TIME R7-1-D 18"X24"

1-04 BIKE LANE R3-17 30"X24"

1-05 BIKE LANE R3-17 30"X24"

1-06 ENDS R3-17-B 30"X12"

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON SIGNAL OR LIGHT POLE(S)
- DENOTES SIGN POST & SIGN TO BE REMOVED BY THE CITY OF MADISON, CONTRACTOR TO REMOVE BASE
- XR-XX DENOTES SIGN TO BE REMOVED
- XM-XX DENOTES SIGN TO BE MOVED
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL OR LIGHT POLE
- PROPOSED SIGN MOVE FINAL LOCATION
- X-XX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN
- CONTRACTOR TO INSTALL SIGN POST AND BASE, SIGN TO BE INSTALLED BY OTHERS

NOTE: ALL GREEN SIGNS TO BE MAINTAINED DURING CONSTRUCTION

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PERMANENT SIGNING: CTH PD	SHEET 167	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PERMANENT SIGNING\023201-PS-PD.DWG
LAYOUT NAME - 021202

PLOT DATE : 11/30/2016 11:33 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

ICE AGE JUNCTION PATH

2-01 — NO PARKING ANY TIME — R7-1-D 18"X24"

2-02 — NO PARKING ANY TIME — R7-1-D 18"X24"

2-05 — RIGHT LANE MUST TURN RIGHT — R3-7-R 30"X30"

2-06 — ONLY ONLY — R3-8-D 36"X30"

MATCH LINE STA. 114+00'WB'

114+00'WB' 115+00'WB' 116+00'WB' 117+00'WB' 118+00'WB' 119+00'WB' 120+00'WB'

114+00'EB' 115+00'EB' 116+00'EB' 117+00'EB' 118+00'EB' 119+00'EB' 120+00'EB'

CTH PD WB

CTH PD EB

MATCH LINE STA. 120+00'WB'

2-04 — NO PARKING ANY TIME — R7-1-D 18"X24"

2R-01

2-03 — SPEED LIMIT 40 — R2-1 24"X30"

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON SIGNAL OR LIGHT POLE(S)
- DENOTES SIGN POST & SIGN TO BE REMOVED BY THE CITY OF MADISON, CONTRACTOR TO REMOVE BASE
- (XR-XX) DENOTES SIGN TO BE REMOVED
- (XM-XX) DENOTES SIGN TO BE MOVED
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL OR LIGHT POLE
- PROPOSED SIGN MOVE FINAL LOCATION
- (X-XX) DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN
- CONTRACTOR TO INSTALL SIGN POST AND BASE, SIGN TO BE INSTALLED BY OTHERS

NOTE: ALL GREEN SIGNS TO BE MAINTAINED DURING CONSTRUCTION

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PERMANENT SIGNING: CTH PD	SHEET 168	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLANS\PERMANENT SIGNING\023201-PS-PD.DWG
LAYOUT NAME - 021203
PLOT DATE : 11/30/2016 11:33 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

ICE AGE NATIONAL SCENIC TRAIL

SNOWYCAP TRAIL

ICE AGE JUNCTION PATH

N

33+00'ST'

32+00'ST'

51+00'D'

210+00'AT'

209+00'AT'

216+00'AT'

215+00'AT'

214+00'AT'

213+00'AT'

212+00'AT'

211+00'AT'

R3-2
36"X36"

3-01

NO PARKING ANY TIME
R7-1-D
18"X24"

3-02

MATCH LINE STA. 120+00'WB'

CTH PD WB

CTH PD EB

121+00'WB'

121+00'EB'

122+00'WB'

123+00'WB'

123+00'EB'

124+00'WB'

125+00'WB'

125+00'EB'

MATCH LINE STA. 126+00'WB'

Madison
POPULATION 223,209
12-3

3M-01

3M-01

Madison
POPULATION 223,209

3-03

ONE WAY
R6-2-R
30"X36"

3R-01

3-04

NO PARKING ANY TIME
R7-1-D
18"X24"

TRUCK ROUTES HAVE YELLOW IRON POSTS

3M-02

TRUCK ROUTES HAVE YELLOW IRON POSTS

11+00'DW'

DRIVEWAY 12+00'DW'

12+00'DW'

ALTERNATE SIDE PARKING
REGULATIONS IN EFFECT
1AM - 7AM
NOV 15 - MAR 15
EXCEPT SNOW EMERGENCY ZONE

3M-03

ALTERNATE SIDE PARKING
REGULATIONS IN EFFECT
1AM - 7AM
NOV 15 - MAR 15
EXCEPT SNOW EMERGENCY ZONE

207+00'AT'

32+00'C'

ICE AGE NATIONAL SCENIC TRAIL

MATCH LINE STA. 206+00'AT'

HSE

LEGEND

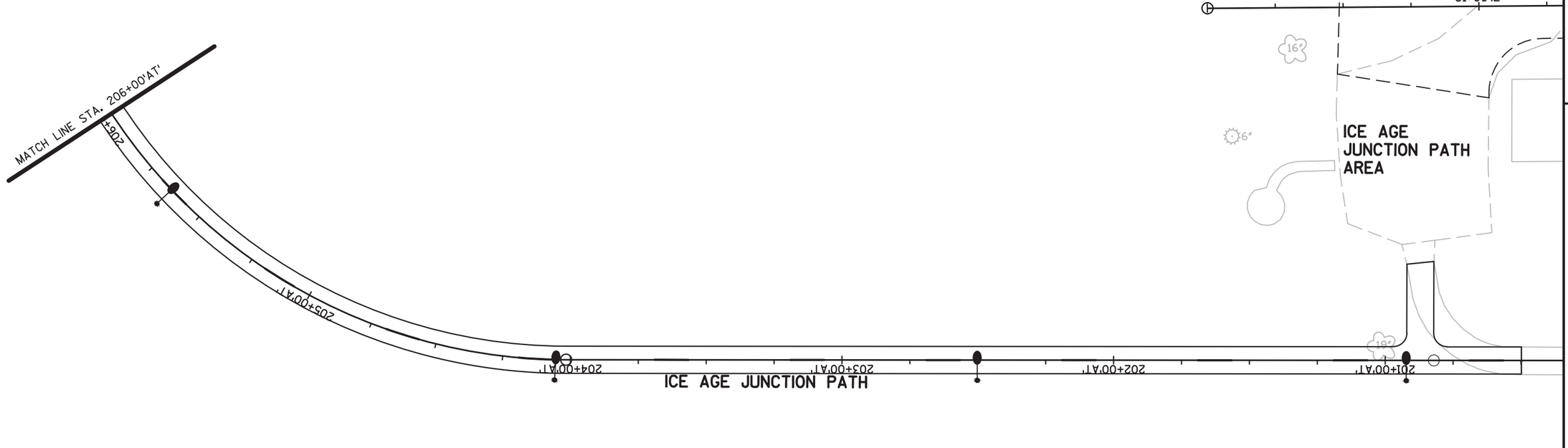
	EXISTING SIGN MOUNTED ON POST(S)
	EXISTING SIGN MOUNTED ON SIGNAL OR LIGHT POLE(S)
✳	DENOTES SIGN POST & SIGN TO BE REMOVED BY THE CITY OF MADISON, CONTRACTOR TO REMOVE BASE
XR-XX	DENOTES SIGN TO BE REMOVED
XM-XX	DENOTES SIGN TO BE MOVED
	PROPOSED SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON SIGNAL OR LIGHT POLE
	PROPOSED SIGN MOVE FINAL LOCATION
X-XX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN
✳ ✳	CONTRACTOR TO INSTALL SIGN POST AND BASE, SIGN TO BE INSTALLED BY OTHERS

NOTE: ALL GREEN SIGNS TO BE MAINTAINED DURING CONSTRUCTION

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PERMANENT SIGNING: CTH PD	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PERMANENT SIGNING\023201-PS-PD.DWG
LAYOUT NAME - 021204

PLOT DATE : 11/30/2016 11:33 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT



LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	EXISTING SIGN MOUNTED ON SIGNAL OR LIGHT POLE(S)
*	DENOTES SIGN POST & SIGN TO BE REMOVED BY THE CITY OF MADISON, CONTRACTOR TO REMOVE BASE
XR-XX	DENOTES SIGN TO BE REMOVED
XM-XX	DENOTES SIGN TO BE MOVED
	PROPOSED SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON SIGNAL OR LIGHT POLE
	PROPOSED SIGN MOVE FINAL LOCATION
X-XX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN
* *	CONTRACTOR TO INSTALL SIGN POST AND BASE, SIGN TO BE INSTALLED BY OTHERS

NOTE: ALL GREEN SIGNS TO BE MAINTAINED DURING CONSTRUCTION

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PERMANENT SIGNING: CTH PD	SHEET 170	E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON SIGNAL OR LIGHT POLE(S)
- DENOTES SIGN POST & SIGN TO BE REMOVED BY THE CITY OF MADISON, CONTRACTOR TO REMOVE BASE
- XR-XX — DENOTES SIGN TO BE REMOVED
- XM-XX — DENOTES SIGN TO BE MOVED
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL OR LIGHT POLE
- PROPOSED SIGN MOVE FINAL LOCATION
- X-XX — DENOTES SIGN NUMBER
- ESTR — EXISTING SIGN TO REMAIN
- CONTRACTOR TO INSTALL SIGN POST AND BASE, SIGN TO BE INSTALLED BY OTHERS

NOTE: ALL GREEN SIGNS TO BE MAINTAINED DURING CONSTRUCTION

N

5-03 SPEED LIMIT 40 R2-1 30"X36"

5-04 COUNTY PD M1-5A 24"X24"

5-06 M RETRO

5-05 NO PARKING ANY TIME R7-1-D 18"X24"

5R-01 NO PARKING ANY TIME

MATCH LINE STA. 126+00'WB'

CTH PD WB

0'WB' 127+00'WB' 128+00'WB' 129+00'WB' 130+00'WB' 131+00'WB' 132+

0'EB' 127+00'EB' 128+00'EB' 129+00'EB' 130+00'EB' 131+00'EB' 132+

CTH PD EB

MATCH LINE STA. 132+00'WB'

5R-02

5-07 ⇦ S High Point Rd M1-94-H 102"X15" (SEE DETAIL)

5-08 NO PARKING ANY TIME R7-1-D 18"X24"

5-09 BEGIN LEFT TURN LANE R3-20-L 24"X36"

5R-03

5R-05 NO PARKING ANY TIME

Ice Age Junction Trail Area Dane County Parks

REMOVING AND SALVAGING DANE COUNTY PARKS SIGN

5R-04

ICE AGE TRAIL ENTRANCE

51+00'IE' 52+00'IE' 53+00'IE'

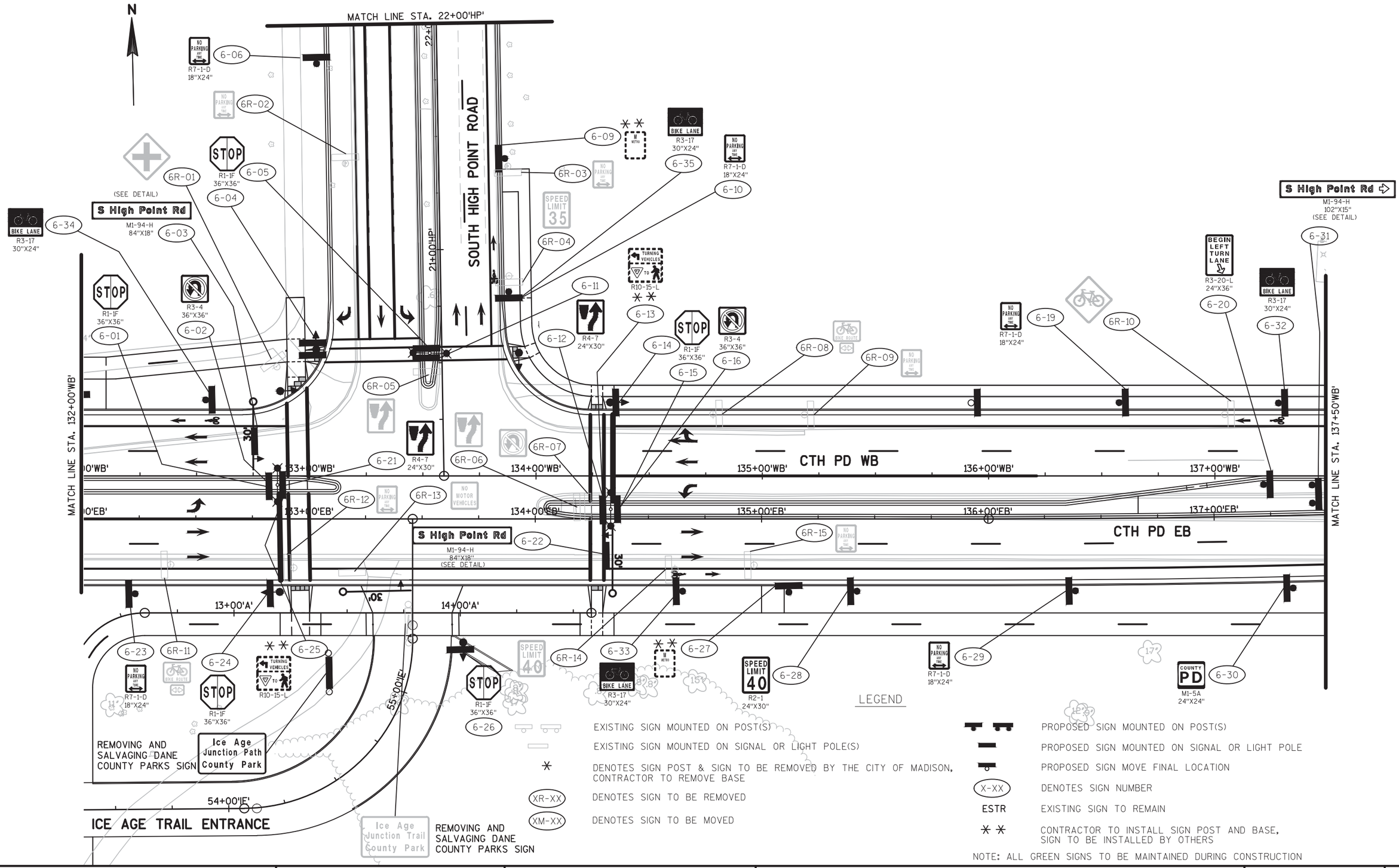
TRAIL A 12+00'A'

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PERMANENT SIGNING: CTH PD	SHEET 171	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PERMANENT SIGNING\023201-PS-PD.DWG
LAYOUT NAME - 021205

PLOT DATE : 11/30/2016 11:34 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



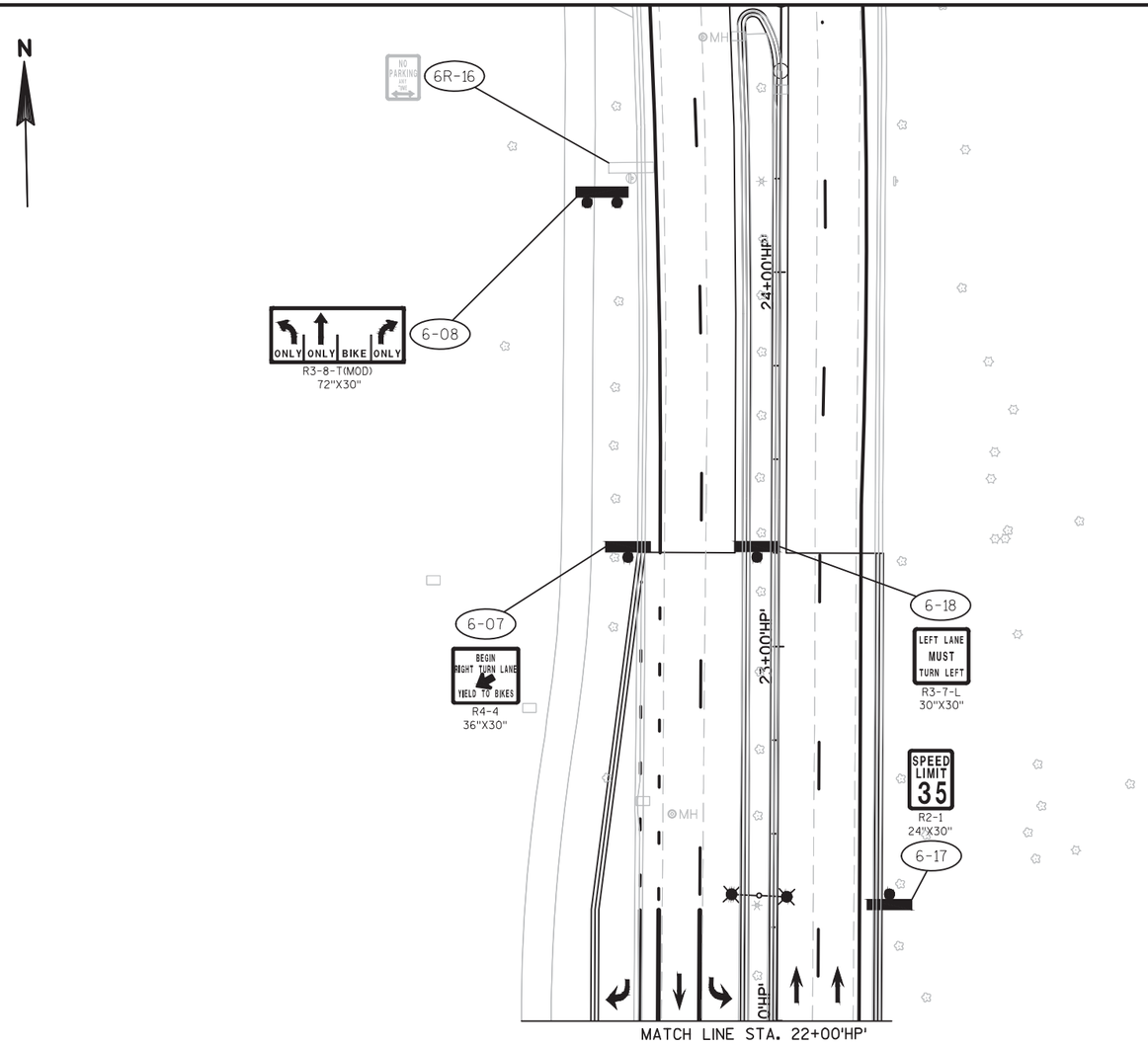
LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	EXISTING SIGN MOUNTED ON SIGNAL OR LIGHT POLE(S)
✳	DENOTES SIGN POST & SIGN TO BE REMOVED BY THE CITY OF MADISON, CONTRACTOR TO REMOVE BASE
XR-XX	DENOTES SIGN TO BE REMOVED
XM-XX	DENOTES SIGN TO BE MOVED
	PROPOSED SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON SIGNAL OR LIGHT POLE
	PROPOSED SIGN MOVE FINAL LOCATION
X-XX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN
✳ ✳	CONTRACTOR TO INSTALL SIGN POST AND BASE, SIGN TO BE INSTALLED BY OTHERS

NOTE: ALL GREEN SIGNS TO BE MAINTAINED DURING CONSTRUCTION

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PERMANENT SIGNING: CTH PD	SHEET 172	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PERMANENT SIGNING\023201-PS-PD.DWG
LAYOUT NAME - 021206
PLOT DATE : 12/6/2016 4:03 PM
PLOT BY : KL ENGINEERING
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



LEGEND

	EXISTING SIGN MOUNTED ON POST(S)		PROPOSED SIGN MOUNTED ON POST(S)
	EXISTING SIGN MOUNTED ON SIGNAL OR LIGHT POLE(S)		PROPOSED SIGN MOUNTED ON SIGNAL OR LIGHT POLE
*	DENOTES SIGN POST & SIGN TO BE REMOVED BY THE CITY OF MADISON, CONTRACTOR TO REMOVE BASE		PROPOSED SIGN MOVE FINAL LOCATION
		X-XX	DENOTES SIGN NUMBER
XR-XX	DENOTES SIGN TO BE REMOVED	ESTR	EXISTING SIGN TO REMAIN
XM-XX	DENOTES SIGN TO BE MOVED	* *	CONTRACTOR TO INSTALL SIGN POST AND BASE, SIGN TO BE INSTALLED BY OTHERS

NOTE: ALL GREEN SIGNS TO BE MAINTAINED DURING CONSTRUCTION

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PERMANENT SIGNING: CTH PD	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PERMANENT SIGNING\023201-PS-PD.DWG
LAYOUT NAME - 021206
PLOT DATE : 11/30/2016 11:34 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

2

N

STRATON WAY

31+00'SW'

STOP

7R-01

7-01

STOP
R1-1
36"X36"

7-02

SPEED LIMIT 25
R2-1
24"X30"

7R-02

SPEED LIMIT 25

7R-03

ONE WAY

7-04

NO PARKING ANY TIME
R7-1-D
18"X24"

7R-04

NO PARKING ANY TIME

BIKE LANE
R3-17
30"X24"

7-13

NO PARKING ANY TIME
R7-1-D
18"X24"

7-05

7R-05

NO PARKING ANY TIME

7-06

R4-7
24"X30"

7-07

TURNING VEHICLES
R10-15-L

7-08

MATCH LINE STA. 137+50'WB'

138+00'WB'

139+00'WB'

140+00'WB'

141+00'WB'

CTH PD WB

142+00'WB'

143+00'WB'

MATCH LINE STA. 143+50'WB'

138+00'EB'

139+00'EB'

140+00'EB'

141+00'EB'

CTH PD EB

142+00'EB'

7R-08

STOP

7R-09

7-03

ONE WAY
R6-2-R
24"X30"

7R-06

NO PARKING ANY TIME

7-12

BIKE LANE
R3-17
30"X24"

7-09

NO PARKING ANY TIME
R7-1-D
18"X24"

7-10

NO PARKING ANY TIME
R7-1-D
18"X24"

7R-07

NO PARKING ANY TIME

7-11

STOP
R1-1
36"X36"

7-14

BIKE LANE
R3-17
30"X24"

SNOWY PARKWAY 41+00'SP'

SPEED LIMIT 25
ESTR

LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	EXISTING SIGN MOUNTED ON SIGNAL OR LIGHT POLE(S)
✳	DENOTES SIGN POST & SIGN TO BE REMOVED BY THE CITY OF MADISON, CONTRACTOR TO REMOVE BASE
XR-XX	DENOTES SIGN TO BE REMOVED
XM-XX	DENOTES SIGN TO BE MOVED
	PROPOSED SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON SIGNAL OR LIGHT POLE
	PROPOSED SIGN MOVE FINAL LOCATION
X-XX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN
✳ ✳	CONTRACTOR TO INSTALL SIGN POST AND BASE, SIGN TO BE INSTALLED BY OTHERS

NOTE: ALL GREEN SIGNS TO BE MAINTAINED DURING CONSTRUCTION

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PERMANENT SIGNING: CTH PD	SHEET 174	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PERMANENT SIGNING\023201-PS-PD.DWG
LAYOUT NAME - 021207

PLOT DATE : 11/30/2016 11:34 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

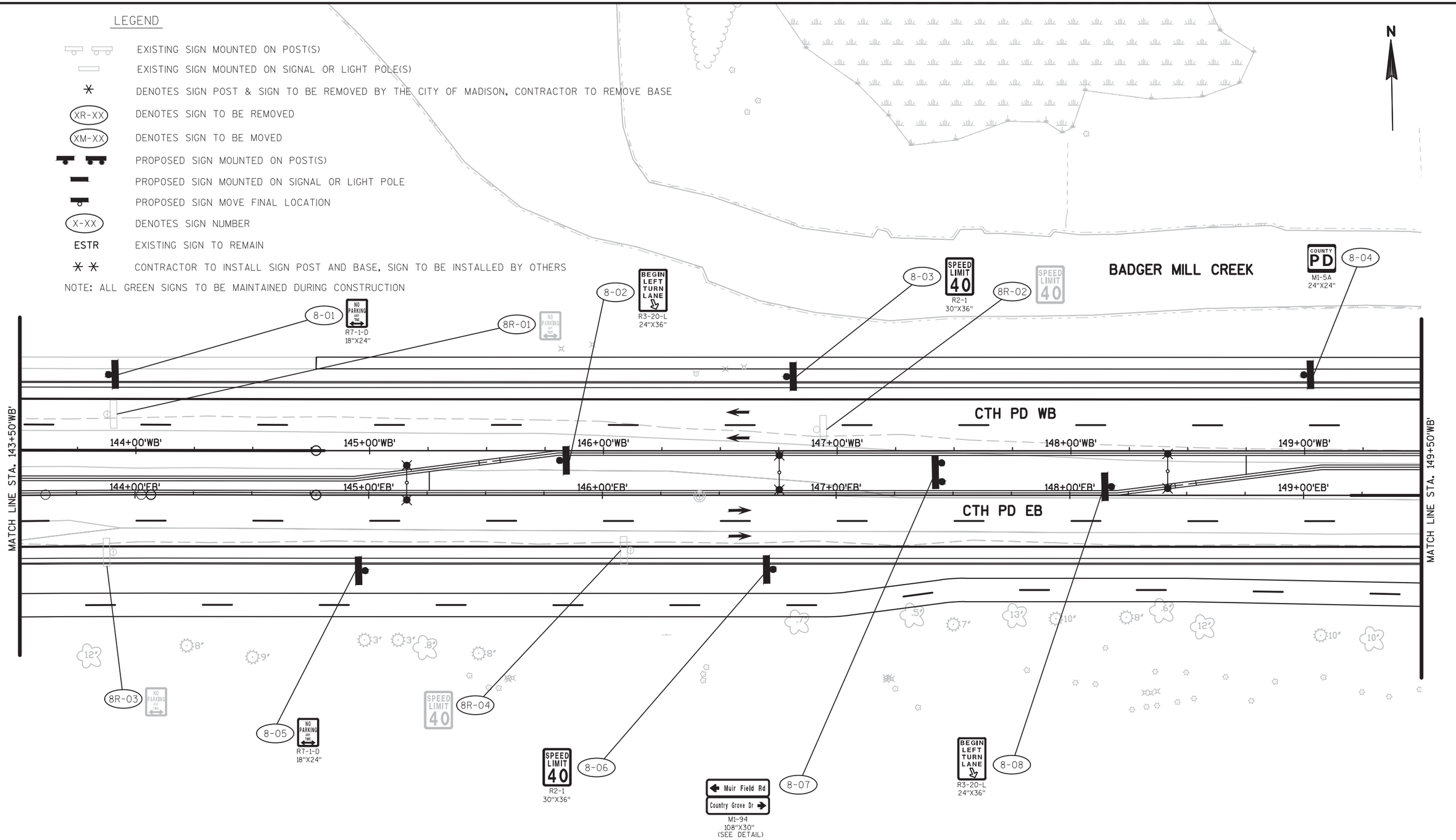
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON SIGNAL OR LIGHT POLE(S)
- DENOTES SIGN POST & SIGN TO BE REMOVED BY THE CITY OF MADISON, CONTRACTOR TO REMOVE BASE
- XR-XX — DENOTES SIGN TO BE REMOVED
- XM-XX — DENOTES SIGN TO BE MOVED
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL OR LIGHT POLE
- PROPOSED SIGN MOVE FINAL LOCATION
- X-XX — DENOTES SIGN NUMBER
- ESTR — EXISTING SIGN TO REMAIN
- CONTRACTOR TO INSTALL SIGN POST AND BASE, SIGN TO BE INSTALLED BY OTHERS

NOTE: ALL GREEN SIGNS TO BE MAINTAINED DURING CONSTRUCTION



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PERMANENT SIGNING: CTH PD	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PERMANENT SIGNING\023201-PS-PD.DWG
LAYOUT NAME - 021208

PLOT DATE : 11/30/2016 11:34 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

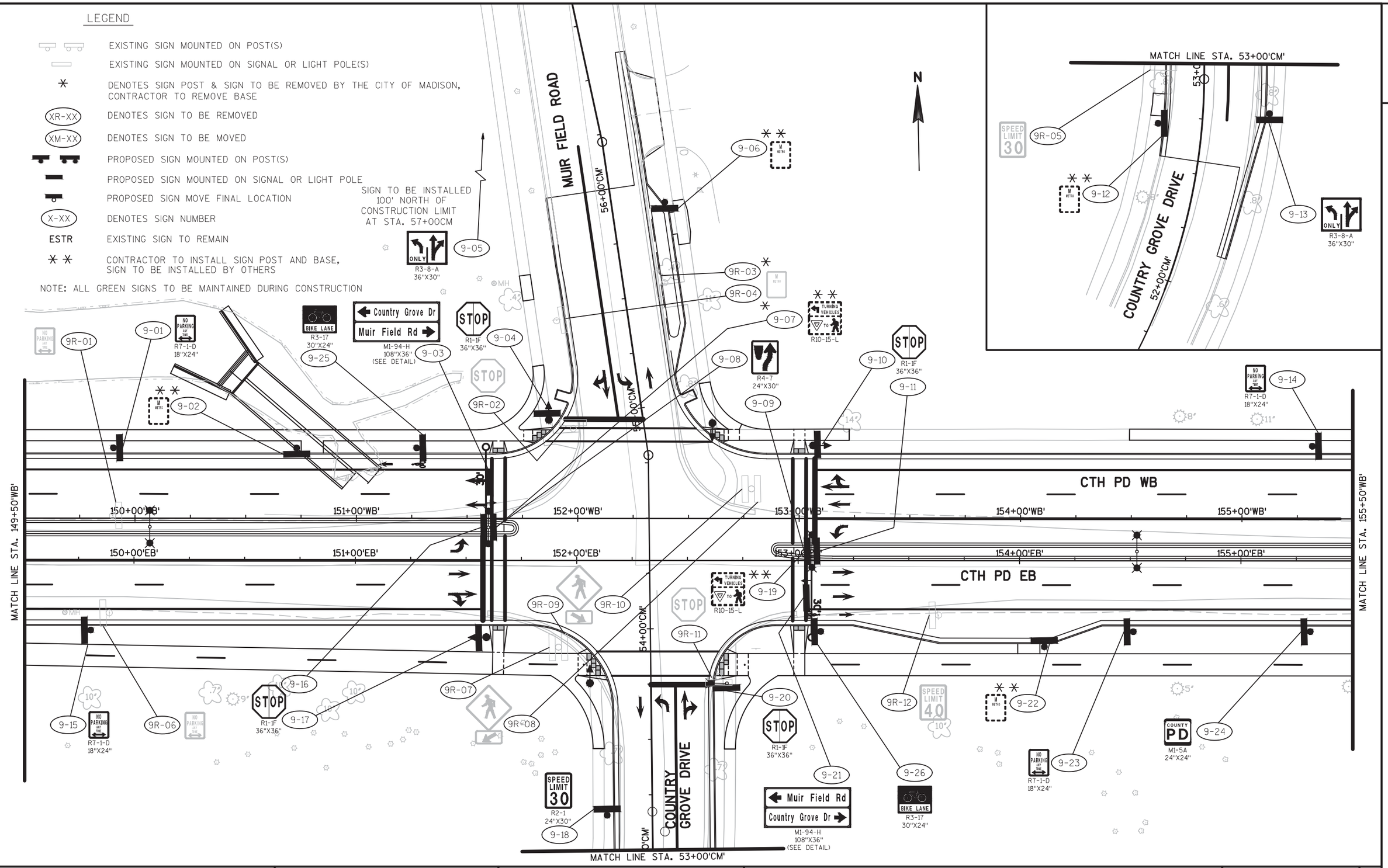
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON SIGNAL OR LIGHT POLE(S)
- * DENOTES SIGN POST & SIGN TO BE REMOVED BY THE CITY OF MADISON, CONTRACTOR TO REMOVE BASE
- XR-XX DENOTES SIGN TO BE REMOVED
- XM-XX DENOTES SIGN TO BE MOVED
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL OR LIGHT POLE
- PROPOSED SIGN MOVE FINAL LOCATION
- X-XX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN
- * * CONTRACTOR TO INSTALL SIGN POST AND BASE, SIGN TO BE INSTALLED BY OTHERS

NOTE: ALL GREEN SIGNS TO BE MAINTAINED DURING CONSTRUCTION



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PERMANENT SIGNING: CTH PD	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PERMANENT SIGNING\023201-PS-PD.DWG
LAYOUT NAME - 021209

PLOT DATE : 11/30/2016 11:35 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

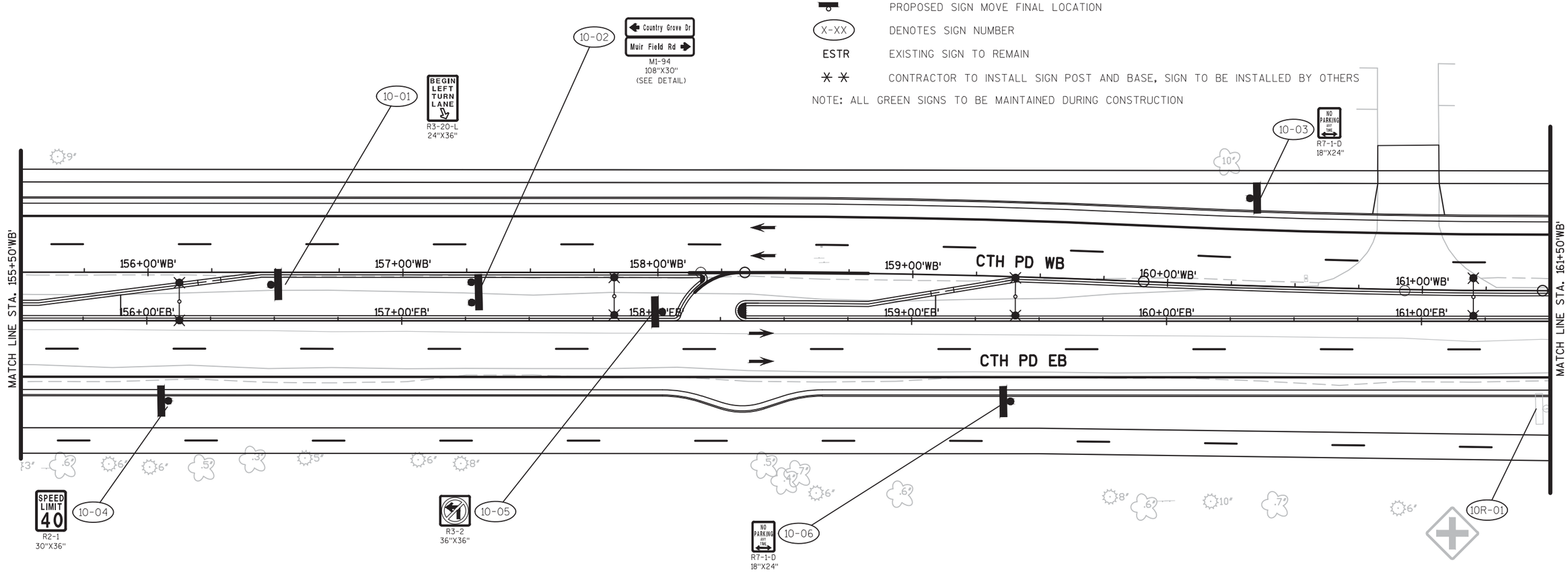
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON SIGNAL OR LIGHT POLE(S)
- DENOTES SIGN POST & SIGN TO BE REMOVED BY THE CITY OF MADISON, CONTRACTOR TO REMOVE BASE
- XR-XX — DENOTES SIGN TO BE REMOVED
- XM-XX — DENOTES SIGN TO BE MOVED
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL OR LIGHT POLE
- PROPOSED SIGN MOVE FINAL LOCATION
- X-XX — DENOTES SIGN NUMBER
- ESTR — EXISTING SIGN TO REMAIN
- CONTRACTOR TO INSTALL SIGN POST AND BASE, SIGN TO BE INSTALLED BY OTHERS

NOTE: ALL GREEN SIGNS TO BE MAINTAINED DURING CONSTRUCTION

N



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PERMANENT SIGNING: CTH PD	SHEET 177	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PERMANENT SIGNING\023201-PS-PD.DWG
LAYOUT NAME - 021210

PLOT DATE : 11/30/2016 11:35 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

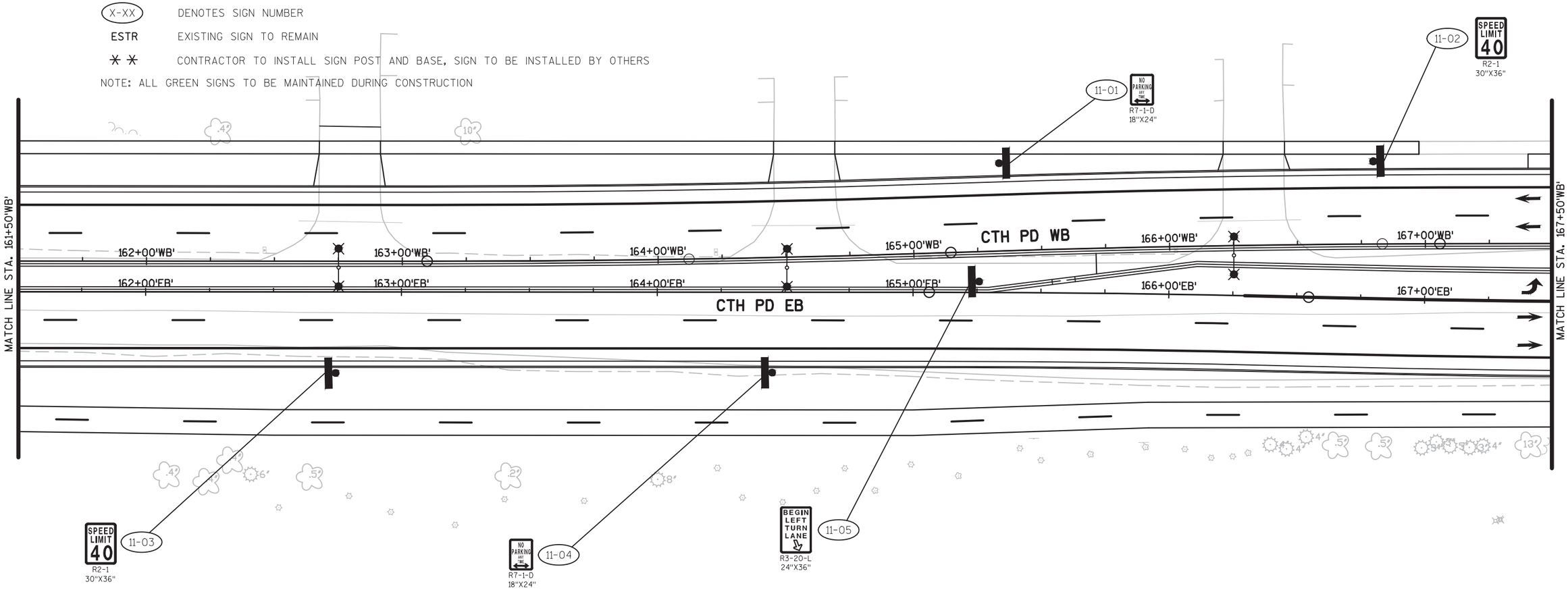
2

LEGEND

	EXISTING SIGN MOUNTED ON POST(S)
	EXISTING SIGN MOUNTED ON SIGNAL OR LIGHT POLE(S)
✳	DENOTES SIGN POST & SIGN TO BE REMOVED BY THE CITY OF MADISON, CONTRACTOR TO REMOVE BASE
XR-XX	DENOTES SIGN TO BE REMOVED
XM-XX	DENOTES SIGN TO BE MOVED
	PROPOSED SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON SIGNAL OR LIGHT POLE
	PROPOSED SIGN MOVE FINAL LOCATION
X-XX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN
✳ ✳	CONTRACTOR TO INSTALL SIGN POST AND BASE, SIGN TO BE INSTALLED BY OTHERS

NOTE: ALL GREEN SIGNS TO BE MAINTAINED DURING CONSTRUCTION

N



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PERMANENT SIGNING: CTH PD	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PERMANENT SIGNING\023201-PS-PD.DWG
LAYOUT NAME - 021211

PLOT DATE : 11/30/2016 11:35 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON SIGNAL OR LIGHT POLE(S)
- DENOTES SIGN POST & SIGN TO BE REMOVED BY THE CITY OF MADISON, CONTRACTOR TO REMOVE BASE
- XR-XX — DENOTES SIGN TO BE REMOVED
- XM-XX — DENOTES SIGN TO BE MOVED
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL OR LIGHT POLE
- PROPOSED SIGN MOVE FINAL LOCATION
- X-XX — DENOTES SIGN NUMBER
- ESTR — EXISTING SIGN TO REMAIN
- CONTRACTOR TO INSTALL SIGN POST AND BASE, SIGN TO BE INSTALLED BY OTHERS

NOTE: ALL GREEN SIGNS TO BE MAINTAINED DURING CONSTRUCTION

N

SIVLERTON TRAIL

74+00'TD'

73+00'TD'

72+00'TD'

71+00'TD'

TANGLEWOOD DRIVE

CTH PD WB

CTH PD EB

MATCH LINE STA. 167+50'WB'

MATCH LINE STA. 173+50'WB'

168+00'WB' 169+00'WB' 170+00'WB' 171+00'WB' 172+00'WB' 173+00'WB'

168+00'EB' 169+00'EB' 170+00'EB' 171+00'EB' 172+00'EB' 173+00'EB'

12-01 STOP R1-1 36"X36"

12R-01 SPEED LIMIT 40

12-13 BIKE LANE R3-17 30"X24"

12R-02 STOP

12-02

12-03 R4-7 24"X30"

12-04 NO PARKING R7-1-D 18"X24"

12-05 BEGIN LEFT TURN LANE R3-20-L 24"X36"

12R-03 LANE ENDS MERGE LEFT

12-06 TURNING VEHICLES TO R10-15-L

12R-04 STOP

12-07 STOP R1-1 36"X36"

12-08 TURNING VEHICLES TO R10-15-L

12-09 M RETRO

12-10 SPEED LIMIT 40 R2-1 30"X36"

12-11 NO PARKING R7-1-D 18"X24"

12-12 BIKE LANE R3-17 30"X24"

12R-05

12R-06 SPEED LIMIT 40

SPEED LIMIT 25 ESTR

NO PARKING ESTR

BUSHES

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PERMANENT SIGNING: CTH PD	SHEET 179	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PERMANENT SIGNING\023201-PS-PD.DWG
LAYOUT NAME - 021212

PLOT DATE : 11/30/2016 11:35 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

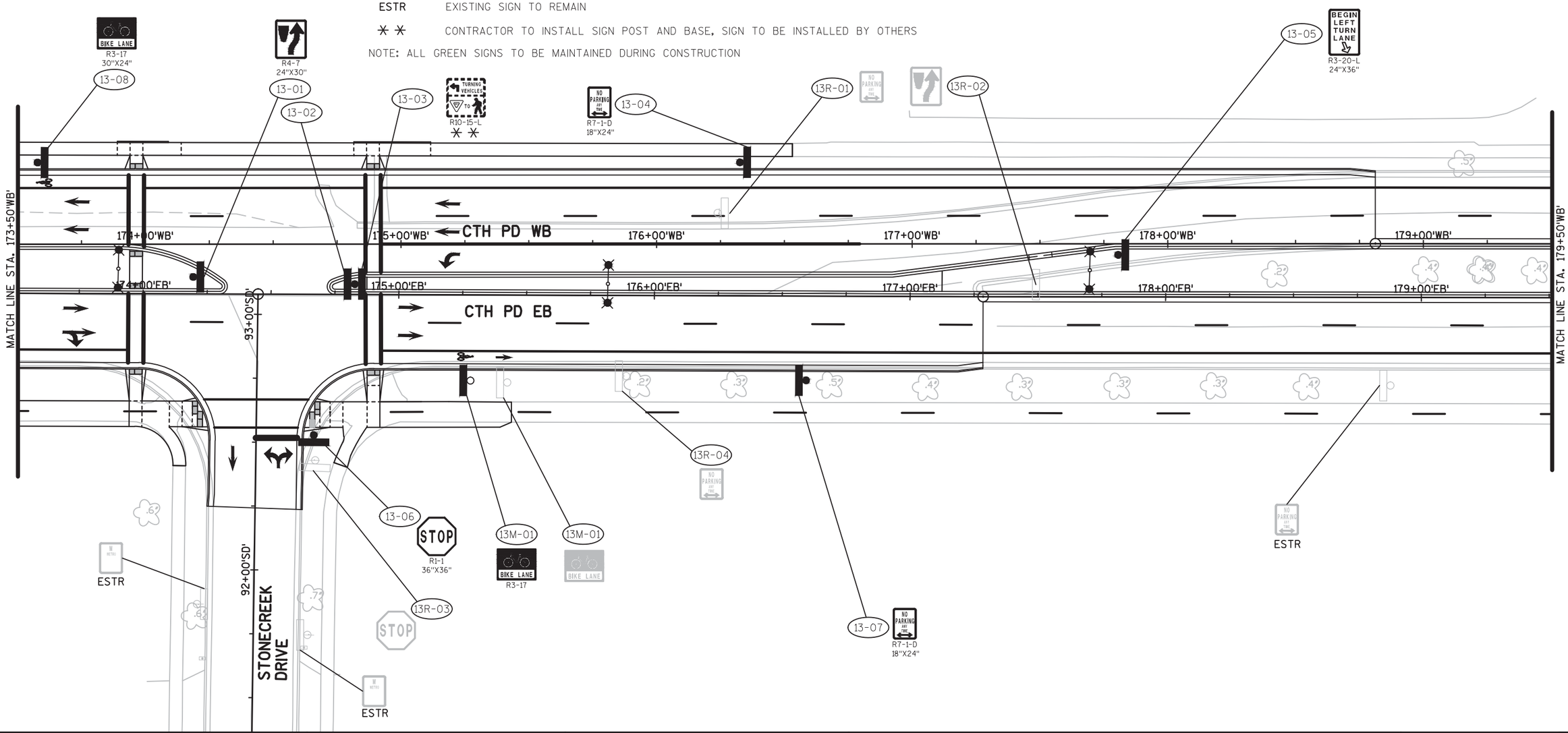
WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON SIGNAL OR LIGHT POLE(S)
- * DENOTES SIGN POST & SIGN TO BE REMOVED BY THE CITY OF MADISON, CONTRACTOR TO REMOVE BASE
- XR-XX DENOTES SIGN TO BE REMOVED
- XM-XX DENOTES SIGN TO BE MOVED
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL OR LIGHT POLE
- PROPOSED SIGN MOVE FINAL LOCATION
- X-XX DENOTES SIGN NUMBER
- ESTR EXISTING SIGN TO REMAIN
- * * CONTRACTOR TO INSTALL SIGN POST AND BASE, SIGN TO BE INSTALLED BY OTHERS

NOTE: ALL GREEN SIGNS TO BE MAINTAINED DURING CONSTRUCTION

N



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PERMANENT SIGNING: CTH PD	SHEET 180	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLANS\PERMANENT SIGNING\023201-PS-PD.DWG
LAYOUT NAME - 021213
PLOT DATE : 11/30/2016 11:35 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

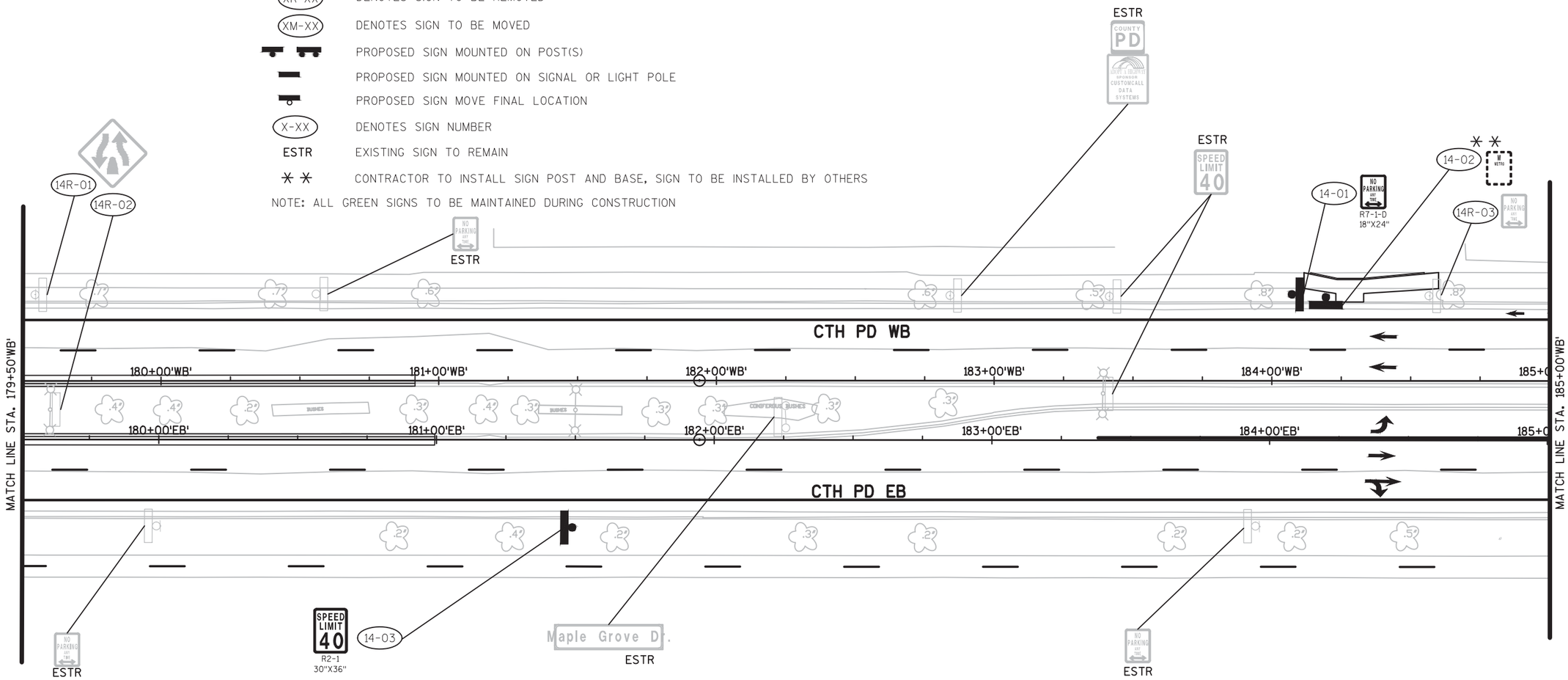
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON SIGNAL OR LIGHT POLE(S)
- DENOTES SIGN POST & SIGN TO BE REMOVED BY THE CITY OF MADISON, CONTRACTOR TO REMOVE BASE
- XR-XX — DENOTES SIGN TO BE REMOVED
- XM-XX — DENOTES SIGN TO BE MOVED
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON SIGNAL OR LIGHT POLE
- PROPOSED SIGN MOVE FINAL LOCATION
- X-XX — DENOTES SIGN NUMBER
- ESTR — EXISTING SIGN TO REMAIN
- CONTRACTOR TO INSTALL SIGN POST AND BASE, SIGN TO BE INSTALLED BY OTHERS

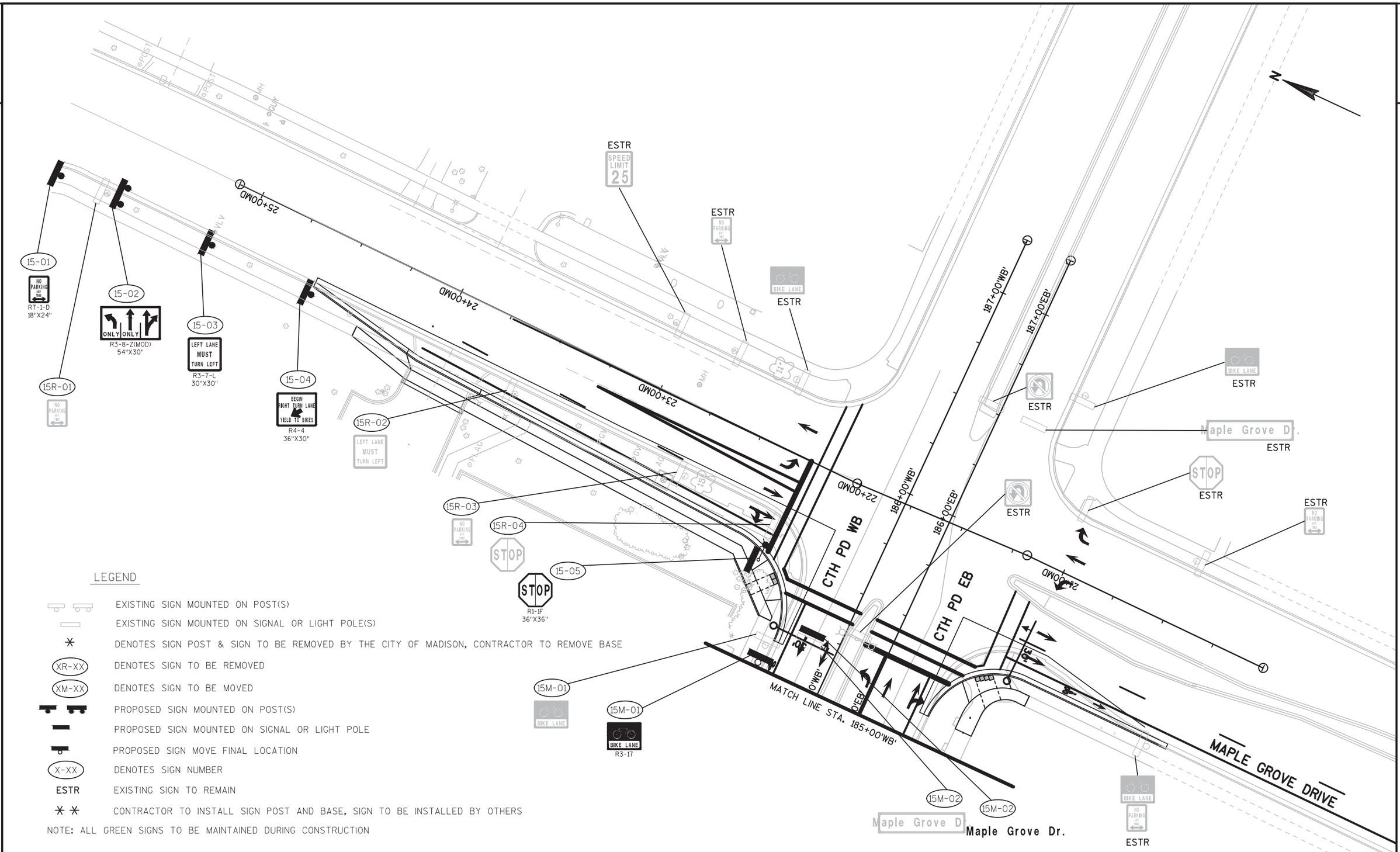
NOTE: ALL GREEN SIGNS TO BE MAINTAINED DURING CONSTRUCTION

N



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PERMANENT SIGNING: CTH PD	SHEET 181	E

2



LEGEND

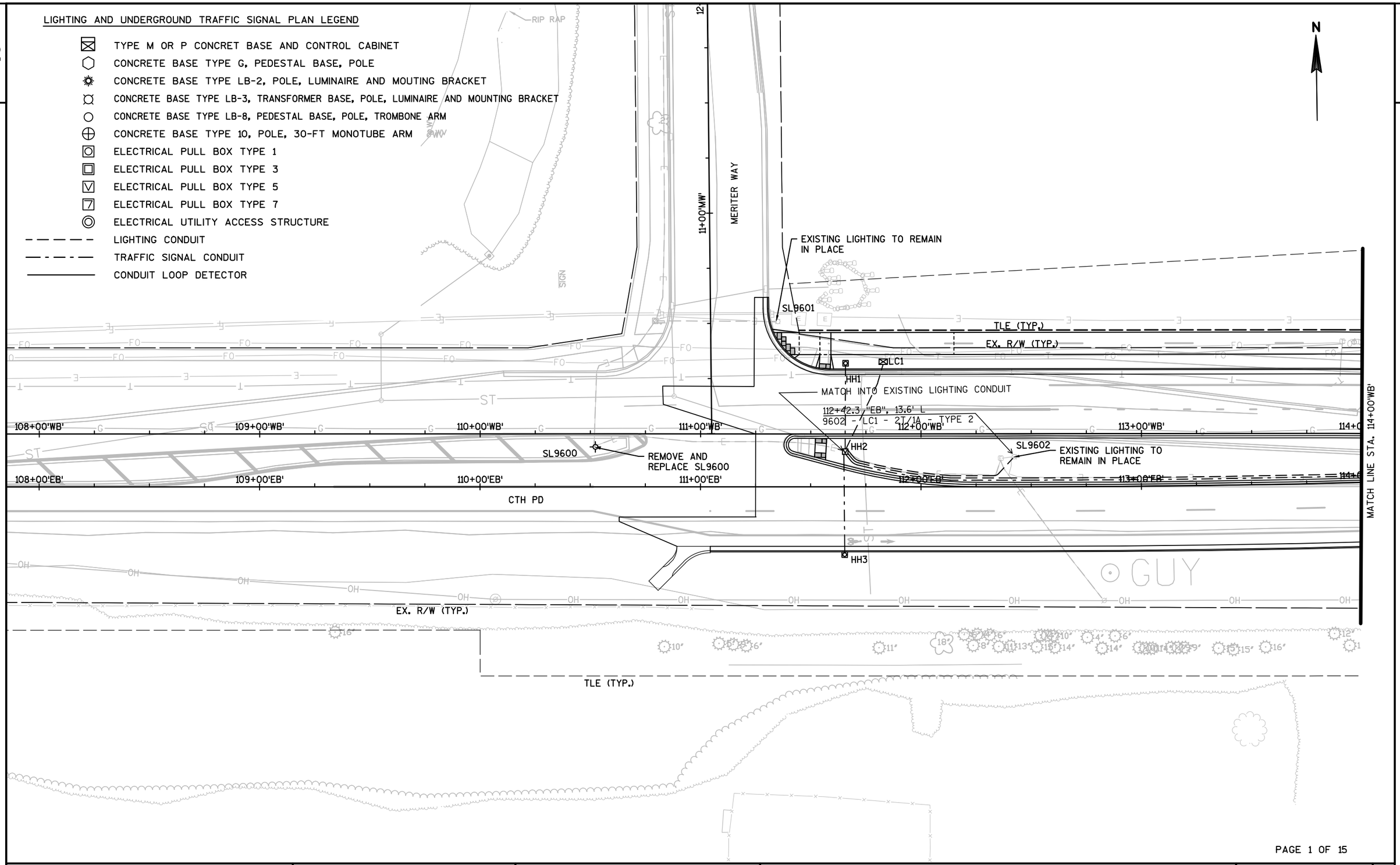
	EXISTING SIGN MOUNTED ON POST(S)
	EXISTING SIGN MOUNTED ON SIGNAL OR LIGHT POLE(S)
✳	DENOTES SIGN POST & SIGN TO BE REMOVED BY THE CITY OF MADISON, CONTRACTOR TO REMOVE BASE
XR-XX	DENOTES SIGN TO BE REMOVED
XM-XX	DENOTES SIGN TO BE MOVED
	PROPOSED SIGN MOUNTED ON POST(S)
	PROPOSED SIGN MOUNTED ON SIGNAL OR LIGHT POLE
	PROPOSED SIGN MOVE FINAL LOCATION
X-XX	DENOTES SIGN NUMBER
ESTR	EXISTING SIGN TO REMAIN
✳ ✳	CONTRACTOR TO INSTALL SIGN POST AND BASE, SIGN TO BE INSTALLED BY OTHERS

NOTE: ALL GREEN SIGNS TO BE MAINTAINED DURING CONSTRUCTION

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PERMANENT SIGNING: CTH PD	SHEET 182	E

LIGHTING AND UNDERGROUND TRAFFIC SIGNAL PLAN LEGEND

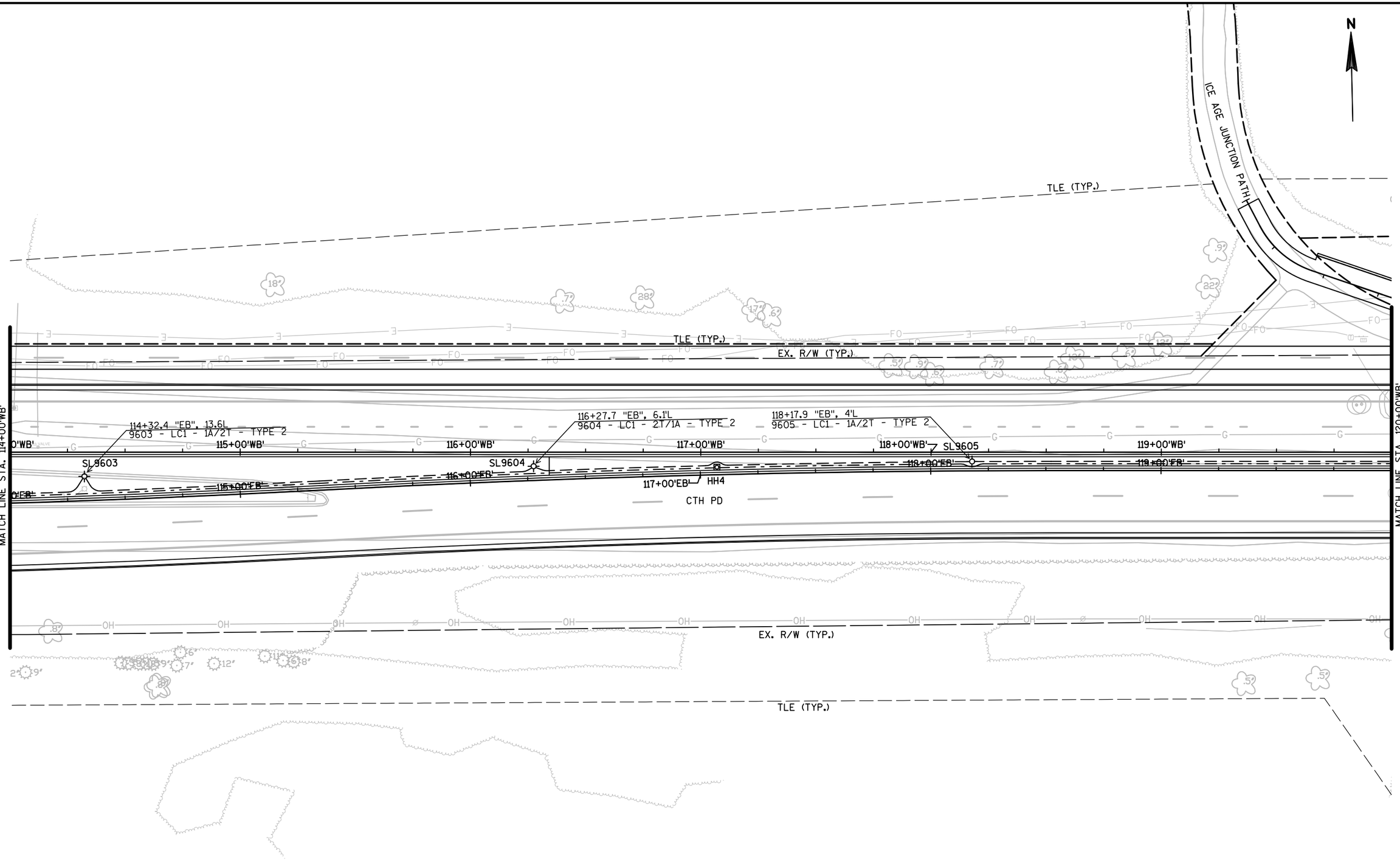
- TYPE M OR P CONCRET BASE AND CONTROL CABINET
- CONCRETE BASE TYPE G, PEDESTAL BASE, POLE
- CONCRETE BASE TYPE LB-2, POLE, LUMINAIRE AND MOUTING BRACKET
- CONCRETE BASE TYPE LB-3, TRANSFORMER BASE, POLE, LUMINAIRE AND MOUNTING BRACKET
- CONCRETE BASE TYPE LB-8, PEDESTAL BASE, POLE, TROMBONE ARM
- CONCRETE BASE TYPE 10, POLE, 30-FT MONOTUBE ARM
- ELECTRICAL PULL BOX TYPE 1
- ELECTRICAL PULL BOX TYPE 3
- ELECTRICAL PULL BOX TYPE 5
- ELECTRICAL PULL BOX TYPE 7
- ELECTRICAL UTILITY ACCESS STRUCTURE
- LIGHTING CONDUIT
- TRAFFIC SIGNAL CONDUIT
- CONDUIT LOOP DETECTOR



PAGE 1 OF 15

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT PLAN	SHEET 183	E

2



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT PLAN	SHEET 184 E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\LIGHTING-SIGNAL PLANS\023601-LP.DWG PLOT DATE : 10/31/2016 1:56 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

209+46.3 "AT", 9'L
P741 - LC1 - 1A - TYPE 1

P741

210+00'AT'

ICE AGE JUNCTION PATH

N

210+55.6 "AT", 9'L
P742 - LC1 - 2T -

P742

SNOWYCAP TRAIL

33+00'ST'

32+00'ST'

51+00'D'

209+00'AT'

211+98.7 "AT", 18.8'R
P740 - LC1 - 2T - TYPE 1

P740

HH66

216+00'AT'

215+00'AT'

214+00'AT'

213+00'AT'

212+00'AT'

211+00'AT'

MATCH LINE STA. 120+00'WB'

120+07 "EB", 4'L
9606 - LC1 - 2T/1A - TYPE 2

120+07 "EB", 4'L
9607 - LC1 - 1A/2T - TYPE 2

122+00 "EB", 4'L
9608 - LC1 - 2T/1A - TYPE 2

123+32 "EB", 15'L
9609 - LC1 - 1A/2T - TYPE 2

125+63 "EB", 15'L
9610 - LC2 - 2T/1A - TYPE 2

SL9606
120+00'WB'

SL9607
121+00'WB'

SL9608
122+00'WB'

123+00'WB'

HH6

124+00'WB'
SL9609

125+00'WB'

SL9610

120+00'EB'

121+00'EB'

122+00'EB'

HH5

123+00'EB'

124+00'EB'

125+00'EB'

CTH PD

MATCH LINE STA. 126+00'WB'

EX. R/W (TYP.)

HH67

11+00'DW'

12+00'DW'

DRIVEWAY 122+00'EB'

P743

207+08.4 "AT", 8.9'L
P743 - LC2 - 1A - TYPE 1

207+00'AT'

32+00'C'

ICE AGE TRAIL

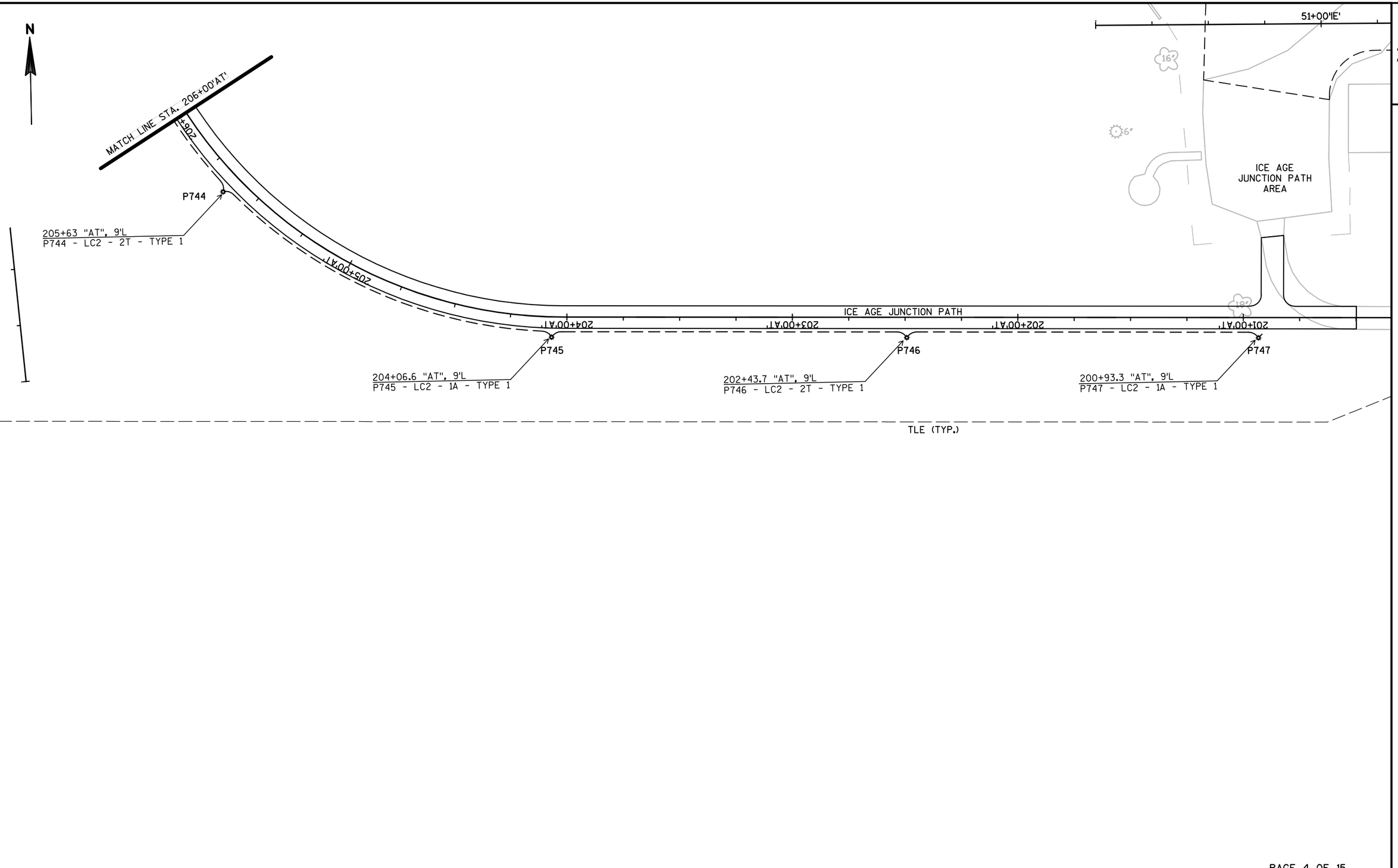
TLE (TYP.)

MATCH LINE STA. 206+00'AT'

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT PLAN	SHEET 185	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\LIGHTING-SIGNAL PLANS\023601-LP.DWG PLOT DATE : 10/31/2016 1:56 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



PAGE 4 OF 15

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT PLAN	SHEET 186	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\LIGHTING-SIGNAL PLANS\023601-LP.DWG PLOT DATE : 10/31/2016 1:56 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

TYPE 1

N

EX. R/W (TYP.)

127+54.3 "EB", 3.5'L
9611 - LC2 - 1A/2T - TYPE 2

129+32.3 "EB", 15'L
9612 - LC2 - 2T/1A - TYPE 2

131+11.3 "EB", 15'L
9613 - LC2 - 1A/2T - TYPE 3

SL9611

SL9612

SL9613

HH7

HH8

HH9

L1

L2

L3

L4

L5

CTH PD

EX. R/W (TYP.)

TLE (TYP.)

RAMP A 12+00'A'

MATCH LINE STA. 126+00'WB'

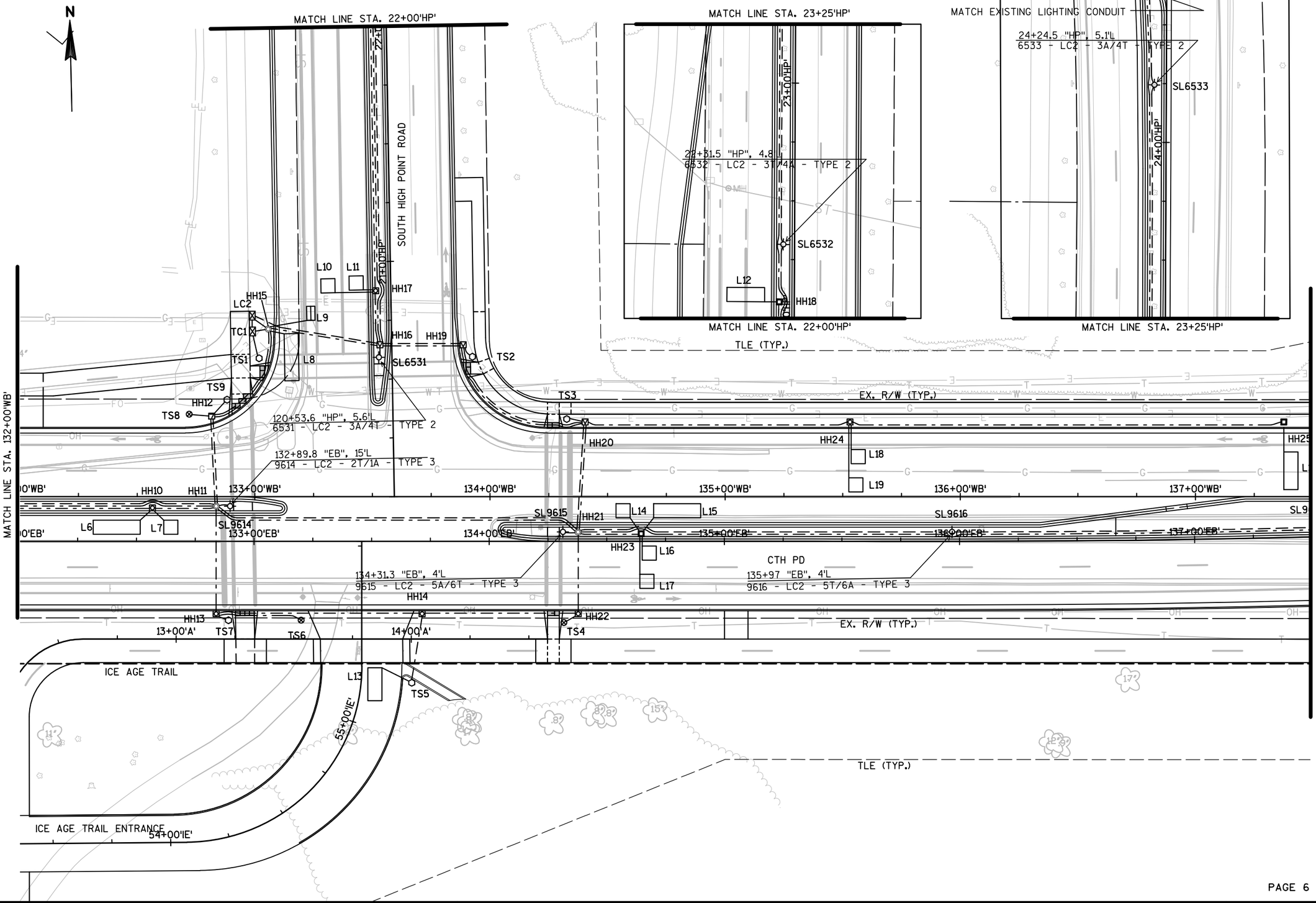
MATCH LINE STA. 132+00'WB'

PAGE 5 OF 15

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT PLAN	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\LIGHTING-SIGNAL PLANS\023601-LP.DWG PLOT DATE : 10/31/2016 1:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT PLAN	SHEET 188	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\LIGHTING-SIGNAL PLANS\023601-LP.DWG
PLOT DATE : 10/31/2016 1:57 PM
PLOT BY : KL ENGINEERING
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

31+00'SW'

STRATON WAY

TLE (TYP.)

EX. R/W (TYP.)

137+50'WB'

138+00'WB'

139+00'WB'

140+00'WB'

141+00'WB'

142+00'WB'

143+00'WB'

139+10.4 "EB", 7.5'L
9618 - LC2 - 5T/6A - TYPE 2

140+61.2 "EB", 8.5'L
9619 - LC2 - 6A/5T - TYPE 2

142+14.5 "EB", 32'L
9620 - LC2 - 5T/6A - TYPE 2

137+59.4 "EB", 8.4'L
9617 - LC2 - 6A/5T - TYPE 3

SL9618

SL9619

SL9620

138+00'EB'

139+00'EB'

140+00'EB'

141+00'EB'

142+00'EB'

143+00'EB'

HH26

HH27

HH28

CTH PD

EX. R/W (TYP.)

TLE (TYP.)

EX. R/W (TYP.)

SL9621

40+57.1 "SP", 21.5'R
9621 - LC3 - 2A - TYPE 1

41+00'SP'

SNOWY PARKWAY

MATCH LINE STA. 137+50'WB'

MATCH LINE STA. 143+50'WB'

PAGE 7 OF 15

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT PLAN	SHEET 189	E

2

N

EX. R/W (TYP.)

MATCH LINE STA. 143+50'WB'

MATCH LINE STA. 149+50'WB'

144+00'WB' 145+00'WB' 146+00'WB' 147+00'WB' 148+00'WB' 149+00'WB'

146+79 "EB", 9.5'L
9624 - LC3 - 2A/3T - TYPE 2

148+44 "EB", 11'L
9625 - LC3 - 3T/2A - TYPE 2

SL9622 SL9623 SL9624 SL9625

144+00'EB' 145+00'EB' 146+00'EB' 147+00'EB' 148+00'EB' 149+00'EB'

HH29 HH30

CTH PD

L21

143+64 "EB", 4.1'L
9622 - LC3 - 2A/3T - TYPE 2

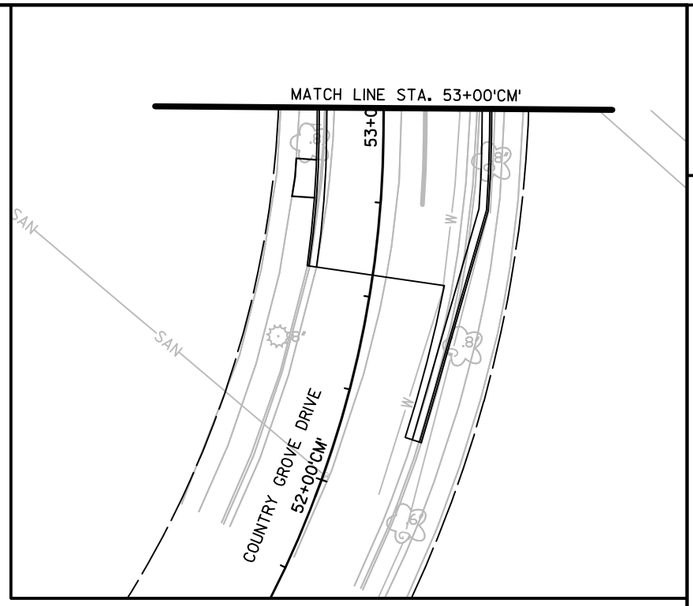
145+12.8 "EB", 5.2'L
9623 - LC3 - 3T/2A - TYPE 2

EX. R/W (TYP.)

PAGE 8 OF 15

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT PLAN	SHEET 190	E

2



N

MUIR FIELD ROAD

56+00'CM'

55+00'CM'

54+00'CM'

53+00'CM'

HH36 L29 L30

L28

HH35

HH43

TS13 SL9628 TS14 TS15

HH34

HH44

151+84.6 "WB", 43.4'L
9628 - LC3 - 2A - TYPE 2

TLE (TYP.)

EX. R/W (TYP.)

151+60 "EB", 15'L
9627 - LC3 - 3T/2A - TYPE 3

L25 L24 L23 L22

150+00'WB' SL9626 151+00'WB' HH32 HH33 152+00'WB' 153+00'WB' 154+00'WB' 155+00'WB'

HH31 L26 L27 SL9627 SL9630 L34 L35 HH46 L36 L37

150+00'EB' 151+00'EB' 152+00'EB' 153+00'EB' 154+00'EB' 155+00'EB'

150+09.4 "EB", 15'L
9626 - LC3 - 2A/3T - TYPE 3

HH42 HH45 CTH PD L38 SL9631 L39

154+56 "EB", 4'L
9631 - LC3 - 5T/4A - TYPE 3

153+04.8 "EB", 4.1'L
9630 - LC3 - 4A/5T - TYPE 3

TS10 HH41 TC2 LC3

HH37 TS12 TS11 SL9629 HH40 HH38

EX. R/W (TYP.)

TLE (TYP.)

L31

53+75.3 "CM", 33.6'R
9629 - LC3 - 1A - TYPE 2

COUNTRY GROVE DRIVE

L32 L33 HH39

MATCH LINE STA. 149+50'WB'

MATCH LINE STA. 155+50'WB'

MATCH LINE STA. 53+00'CM'

PAGE 9 OF 15

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT PLAN	SHEET 191	E

2

N

MATCH LINE STA. 155+50'WB'

MATCH LINE STA. 161+50'WB'

EX. R/W (TYP.)

L40

156+00'WB'

SL9632

HH47

156+00'EB'

157+81 "EB", 9.4'L
9633 - LC3 - 5T/4A - TYPE 2

157+00'WB'

157+00'EB'

158+00'WB'

SL9633

158+00'EB' HH48

159+41 "EB", 8.7'L
9634 - LC3 - 4A/5T - TYPE 2

159+00'WB'

159+00'EB'

SL9634

160+00'WB'

160+00'EB'

161+00'WB'

SL9635

161+00'EB'

156+14 "EB", 7.6'L
9632 - LC3 - 4A/5T - TYPE 2

CTH PD

161+19 "EB", 6'L
9635 - LC3 - 5T/4A - TYPE 2

EX. R/W (TYP.)

PAGE 10 OF 15

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT PLAN	SHEET 192	E

2

N

EX. R/W (TYP.)

MATCH LINE STA. 161+50'WB'

MATCH LINE STA. 167+50'WB'

162+74 "EB", 6'L
9636 - LC3 - 4A/5T - TYPE 2

164+50 "EB", 6.9'L
9637 - LC3 - 5T/4A - TYPE 2

166+25 "EB", 15.3'L
9638 - LC3 - 4A/5T - TYPE 2

162+00'WB' 163+00'WB' 164+00'WB' 165+00'WB' 166+00'WB' 167+00'WB'

162+00'EB' 163+00'EB' 164+00'EB' 165+00'EB' 166+00'EB' 167+00'EB'

SL9636 HH49 SL9637 SL9638

CTH PD

EX. R/W (TYP.)

PAGE 11 OF 15

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT PLAN	SHEET 193	E

2

N

MATCH LINE STA. 167+50'WB'

MATCH LINE STA. 173+50'WB'

74+00'TD'

73+00'TD'

72+00'TD'

71+00'TD'

SIVLERTON TRAIL

TANGLEWOOD DRIVE

CTH PD

EX. R/W (TYP.)

EX. R/W (TYP.)

HH51

HH52

HH53

HH54

HH55

HH56

HH57

HH58

HH59

HH50

SL9639

SL9640

SL9641

SL9642

SL9643

167+82.2 "EB", 17'L
9639 - LC3 - 5T/4A - TYPE 3

71+61.2 "TS", 23.6R
9640 - LC4 - 1A - TYPE 1

169+26.1 "EB", 6.9'L
9641 - LC4 - 1A/2T - TYPE 3

170+76.2 "EB", 5'L
9642 - LC4 - 2T/1A - TYPE 2

172+349 "EB", 3.5'L
9643 - LC4 - 1A/2T - TYPE 2

167+50'WB'
168+00'WB'
168+00'EB'
169+00'WB'
169+00'EB'
170+00'WB'
170+00'EB'
171+00'WB'
171+00'EB'
172+00'WB'
172+00'EB'
173+00'WB'
173+00'EB'

PAGE 12 OF 15

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT PLAN	SHEET 194 E

2

2

N

EX. R/W (TYP.)

TLE (TYP.)

MATCH LINE STA. 173+50'WB'

MATCH LINE STA. 179+50'WB'

173+93 "EB", 9.6'L
9644 - LC4 - 2T/1A - TYPE 2

174+00'WB'

175+00'WB'

176+00'WB'

177+00'WB'

178+00'WB'

179+00'WB'

SL9644

SL9645

SL8320

HH60

HH61

174+00'EB'

175+00'EB'

176+00'EB'

177+00'EB'

178+00'EB'

179+00'EB'

93+00'SD'

92+00'SD'

175+80 "EB", 4.5'L
9645 - LC4 - 1A/2T - TYPE 2

CTH PD

177+76.1 "EB", 10.2'L
8320 - LC4 - 2T/1A - TYPE 2

SWING EXISTING 1 1/4" C-I-D
INTO NEW BASE

EX. R/W (TYP.)

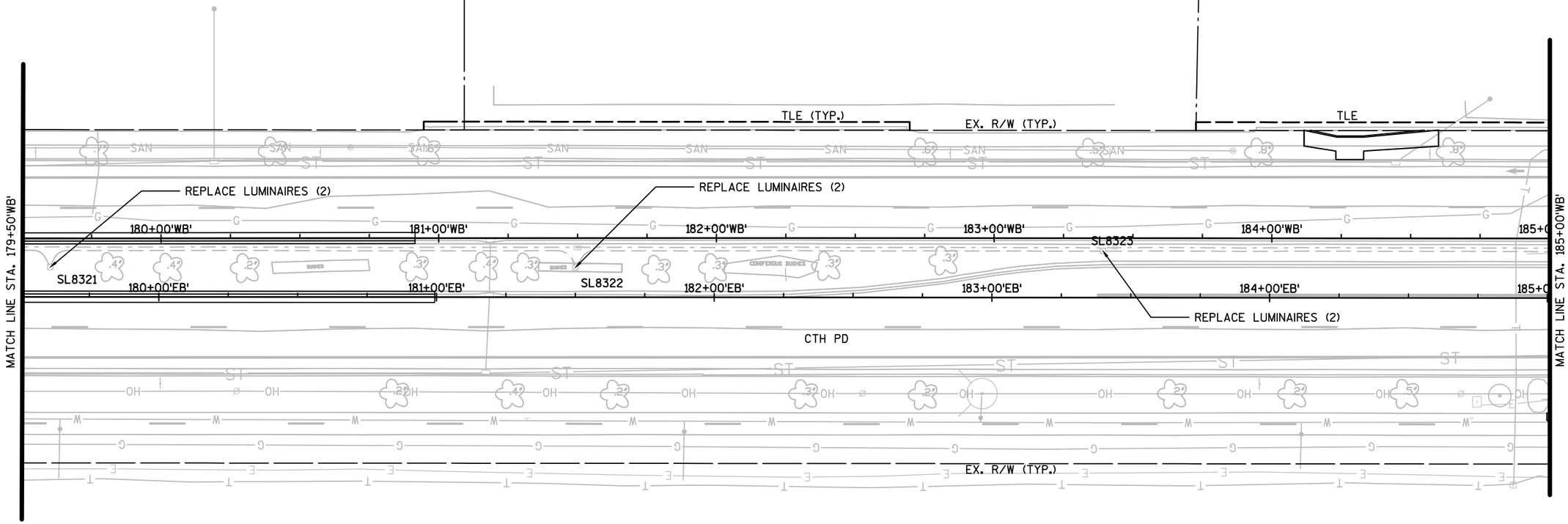
STONECREEK DRIVE

PAGE 13 OF 15

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT PLAN	SHEET 195	E

2

N



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT PLAN	SHEET 196	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\LIGHTING-SIGNAL PLANS\023601-LP.DWG PLOT DATE : 10/31/2016 1:58 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

MAPLE GROVE DRIVE

23+00MD

22+00MD

21+00MD

HH65

HH64

HH63

HH62

TS17

TS16

TS15

TS18

TC3

C4

SL8325

SL8324

22+25.7 "ND", 52.4'L
8325 - LC4 - 4A - TYPE 2

REPLACE LUMINAIRES (2)

MATCH LINE STA. 185+00'WB'

186+00'WB'

187+00'WB'

186+00'EB'

187+00'EB'

CTH PD

ST

OH

PAGE 15 OF 15

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT PLAN	SHEET 197	E

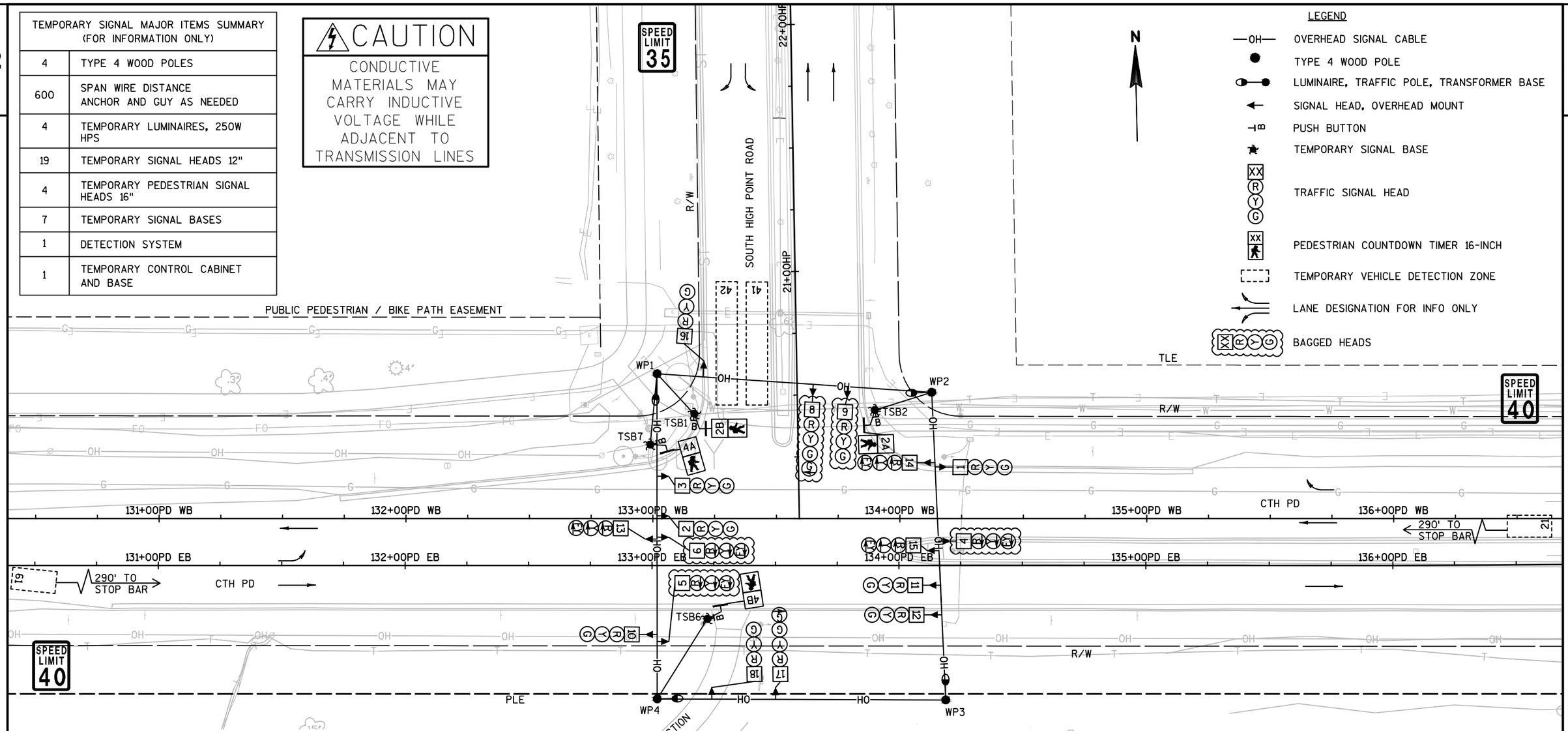
TEMPORARY SIGNAL MAJOR ITEMS SUMMARY (FOR INFORMATION ONLY)	
4	TYPE 4 WOOD POLES
600	SPAN WIRE DISTANCE ANCHOR AND GUY AS NEEDED
4	TEMPORARY LUMINAIRES, 250W HPS
19	TEMPORARY SIGNAL HEADS 12"
4	TEMPORARY PEDESTRIAN SIGNAL HEADS 16"
7	TEMPORARY SIGNAL BASES
1	DETECTION SYSTEM
1	TEMPORARY CONTROL CABINET AND BASE

CAUTION

CONDUCTIVE MATERIALS MAY CARRY INDUCTIVE VOLTAGE WHILE ADJACENT TO TRANSMISSION LINES

LEGEND

- OVERHEAD SIGNAL CABLE
- TYPE 4 WOOD POLE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- SIGNAL HEAD, OVERHEAD MOUNT
- PUSH BUTTON
- TEMPORARY SIGNAL BASE
- TRAFFIC SIGNAL HEAD
- PEDESTRIAN COUNTDOWN TIMER 16-INCH
- TEMPORARY VEHICLE DETECTION ZONE
- LANE DESIGNATION FOR INFO ONLY
- BAGGED HEADS



CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES, SIGNAL HEADS, AND TEMPORARY CABINET SHALL BE AS DIRECTED BY THE ENGINEER. USE CAUTION WHEN LOCATING WOOD POLES WITH THE STAKING INFORMATION SHOWN.
2. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER. MULTIPLE ADJUSTMENTS MAY BE REQUIRED AND ARE CONSIDERED INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL BID ITEM.
3. NEAR RIGHT SIGNAL HEADS SHALL BE MOUNTED BETWEEN THE SPAN AND TETHER WIRES.
4. COORDINATE ALL APPLICABLE ACTIVITIES WITH AMERICAN TRANSMISSION COMPANY (ATC) ACCORDING TO PROCEDURES IN THIS CONTRACT.
5. CONTRACTOR SHALL PROVIDE NON-INTRUSIVE DETECTION FOR ALL DETECTION ZONES. DETECTION EQUIPMENT PLACEMENT MAY REQUIRE ADDITIONAL POLE INSTALLATIONS WHICH ARE CONSIDERED INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL BID ITEM.
6. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.

WOOD POLE STAKING DATA

ITEM - STATION - OFFSET	
WP1	133+01.6'WB - 58.7'LT
WP2	134+12.9'WB - 51.9'LT
WP3	134+18.9'EB - 54.4'RT
WP4	133+02.1'EB' - 54.0'RT

TRAFFIC CONTROL SIGNAL
CTH PD & SOUTH HIGH POINT ROAD
CITY OF MADISON
DANE COUNTY

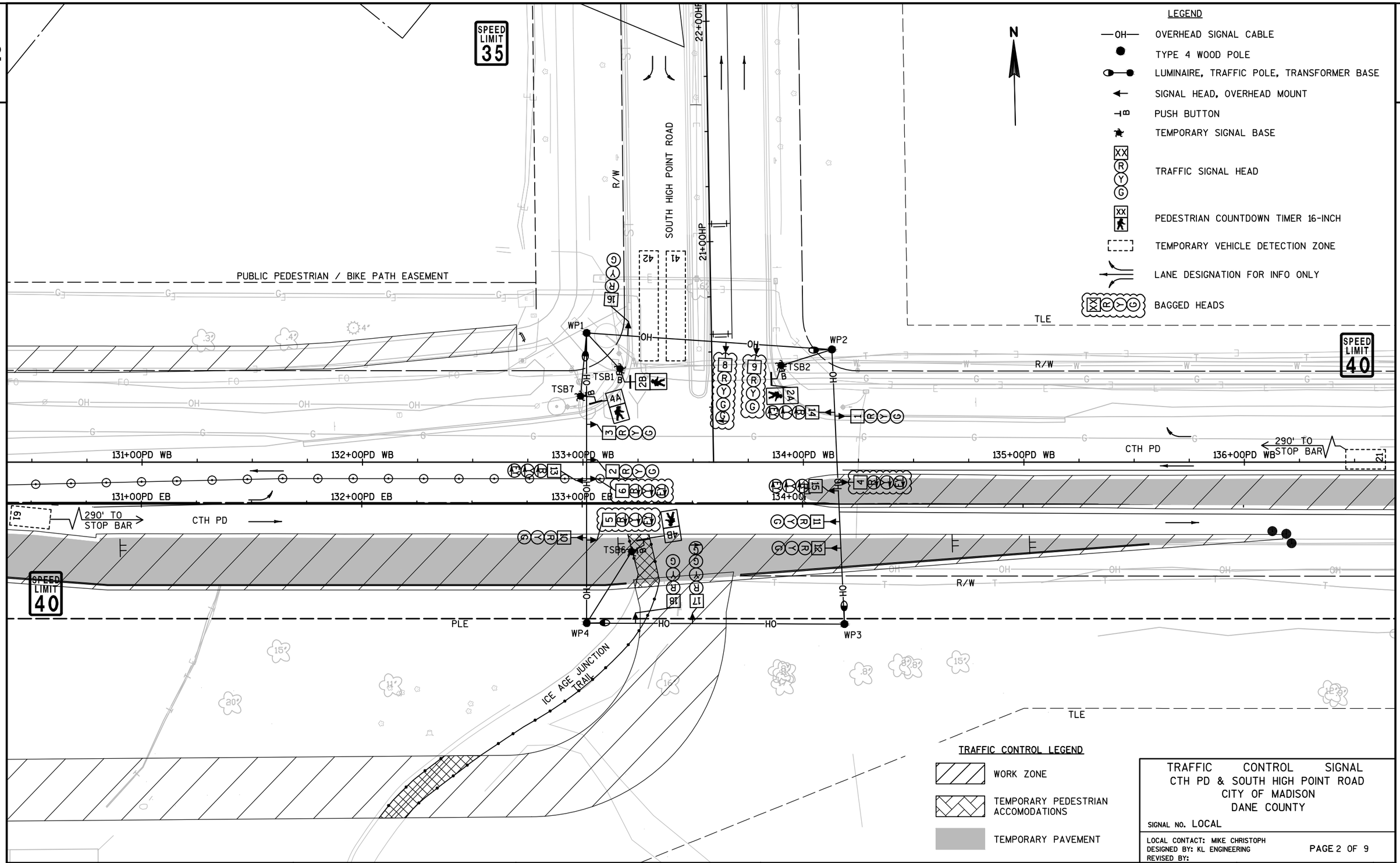
SIGNAL NO. LOCAL

LOCAL CONTACT: MIKE CHRISTOPH
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 1 OF 9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - PRE STAGE	SHEET 198	E

2



TRAFFIC CONTROL SIGNAL
CTH PD & SOUTH HIGH POINT ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: MIKE CHRISTOPH
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 2 OF 9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC SIGNALS\024101-1-ST.DWG PLOT DATE : 10/19/2016 7:30 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

SPEED LIMIT 35

SPEED LIMIT 40

SPEED LIMIT 40

N

LEGEND

—OH— OVERHEAD SIGNAL CABLE

TYPE 4 WOOD POLE

LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE

SIGNAL HEAD, OVERHEAD MOUNT

PUSH BUTTON

TEMPORARY SIGNAL BASE

TRAFFIC SIGNAL HEAD

PEDESTRIAN COUNTDOWN TIMER 16-INCH

TEMPORARY VEHICLE DETECTION ZONE

LANE DESIGNATION FOR INFO ONLY

BAGGED HEADS

22+00HP

21+00HP

SOUTH HIGH POINT ROAD

R/W

PUBLIC PEDESTRIAN / BIKE PATH EASEMENT

TLE

PLE

WP1

WP2

WP3

WP4

OH

HO

TSB1

TSB5

TSB6

TSB7

131+00PD WB

132+00PD WB

133+00PD WB

134+00PD WB

135+00PD WB

136+00PD WB

131+00PD EB

132+00PD EB

133+00PD EB

134+00PD EB

135+00PD EB

136+00PD EB

CTH PD

290' TO STOP BAR

ICE AGE JUNCTION TRAIL ENTRANCE

TRAFFIC CONTROL LEGEND

WORK ZONE

TEMPORARY PEDESTRIAN ACCOMODATIONS

TEMPORARY PAVEMENT

TRAFFIC CONTROL SIGNAL
CTH PD & SOUTH HIGH POINT ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: MIKE CHRISTOPH
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 4 OF 9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A	SHEET 200	E

FILE NAME : \\KL1NAS\DATA1\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC SIGNALS\024101-2A(NEW)-ST.DWG PLOT DATE : 10/19/2016 7:51 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

SPEED LIMIT 35

SPEED LIMIT 40

SPEED LIMIT 40

N

SOUTH HIGH POINT ROAD

R/W

22+00HP

21+00HP

PUBLIC PEDESTRIAN / BIKE PATH EASEMENT

TLE

PLE

WP1

WP2

WP3

WP4

OH

HO

TSB1

TSB2

TSB5

TSB6

TSB7

131+00PD WB

132+00PD WB

133+00PD WB

134+00PD WB

135+00PD WB

136+00PD WB

131+00PD EB

132+00PD EB

133+00PD EB

134+00PD EB

135+00PD EB

136+00PD EB

CTH PD

290' TO STOP BAR

CC

ICE AGE JUNCTION TRAIL ENTRANCE

LEGEND

—OH—	OVERHEAD SIGNAL CABLE
●	TYPE 4 WOOD POLE
●—●	LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
←	SIGNAL HEAD, OVERHEAD MOUNT
⊣B	PUSH BUTTON
	TEMPORARY SIGNAL BASE
XX R Y G	TRAFFIC SIGNAL HEAD
XX	PEDESTRIAN COUNTDOWN TIMER 16-INCH
	TEMPORARY VEHICLE DETECTION ZONE
	LANE DESIGNATION FOR INFO ONLY
	BAGGED HEADS

TRAFFIC CONTROL LEGEND

	WORK ZONE
	TEMPORARY PEDESTRIAN ACCOMODATIONS
	TEMPORARY PAVEMENT

TRAFFIC CONTROL SIGNAL
CTH PD & SOUTH HIGH POINT ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: MIKE CHRISTOPH
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 3 OF 9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2B	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC SIGNALS\024101-2B (NEW)-ST.DWG
PLOT DATE : 10/19/2016 7:33 PM
PLOT BY : KL ENGINEERING
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

SPEED LIMIT 35

SPEED LIMIT 40

SPEED LIMIT 40

N

LEGEND

—OH— OVERHEAD SIGNAL CABLE

TYPE 4 WOOD POLE

LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE

SIGNAL HEAD, OVERHEAD MOUNT

PUSH BUTTON

TEMPORARY SIGNAL BASE

TRAFFIC SIGNAL HEAD

PEDESTRIAN COUNTDOWN TIMER 16-INCH

TEMPORARY VEHICLE DETECTION ZONE

LANE DESIGNATION FOR INFO ONLY

PUBLIC PEDESTRIAN / BIKE PATH EASEMENT

TLE

R/W

SOUTH HIGH POINT ROAD

22+00HC

21+00HC

CTH PD

290' TO STOP BAR

131+00PD WB

132+00PD WB

133+00PD WB

134+00PD WB

135+00PD WB

136+00PD WB

134+00PD EB

132+00PD EB

133+00PD EB

135+00PD EB

136+00PD EB

TSB1

TSB2

TSB5

TSB6

TSB7

WP1

WP2

WP3

WP4

OH

PLE

ICE AGE JUNCTION TRAIL ENTRANCE

TRAFFIC CONTROL LEGEND

WORK ZONE

TEMPORARY PEDESTRIAN ACCOMODATIONS

TRAFFIC CONTROL SIGNAL
CTH PD & SOUTH HIGH POINT ROAD
CITY OF MADISON
DANE COUNTY

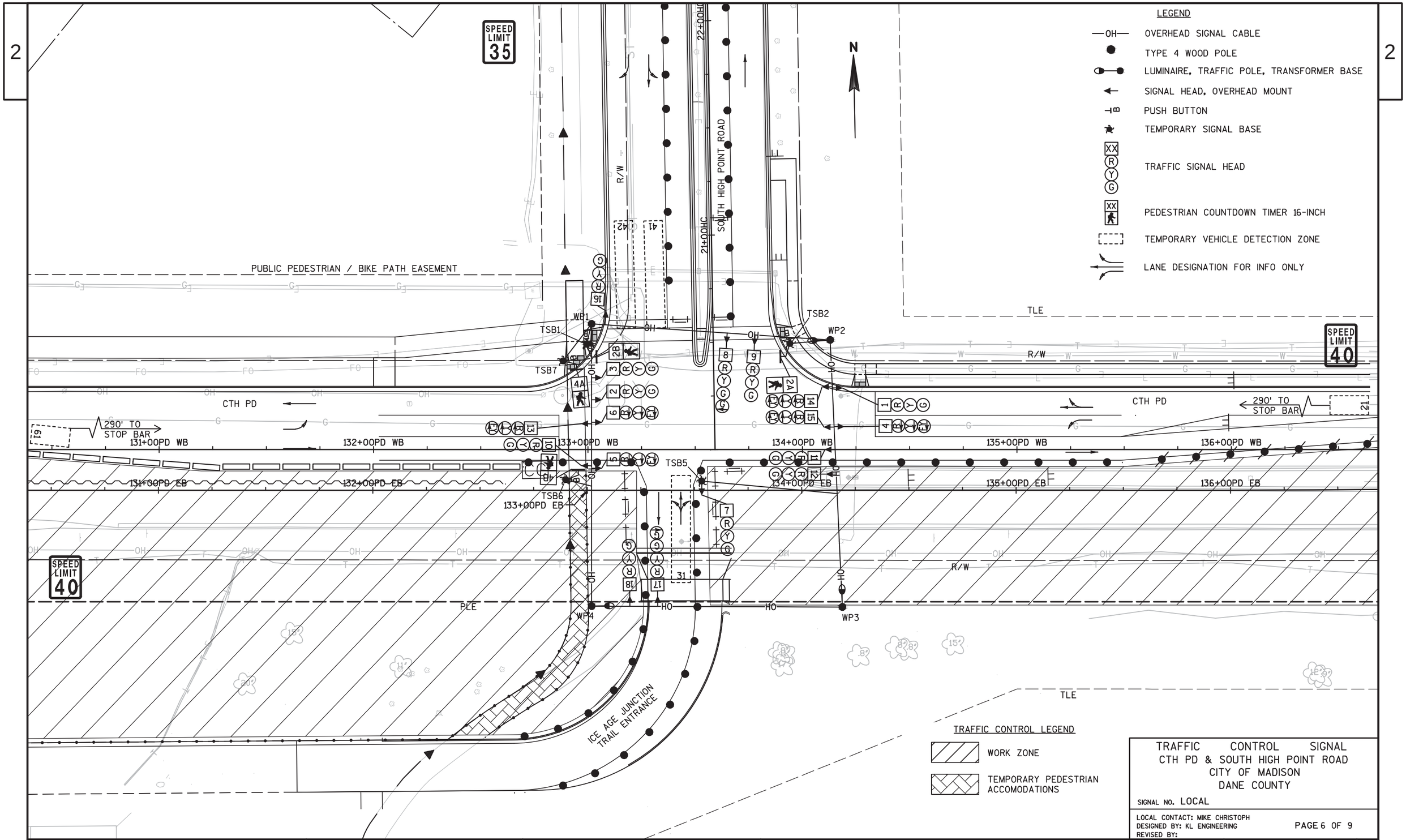
SIGNAL NO. LOCAL

LOCAL CONTACT: MIKE CHRISTOPH
DESIGNED BY: KL ENGINEERING
REVISED BY:

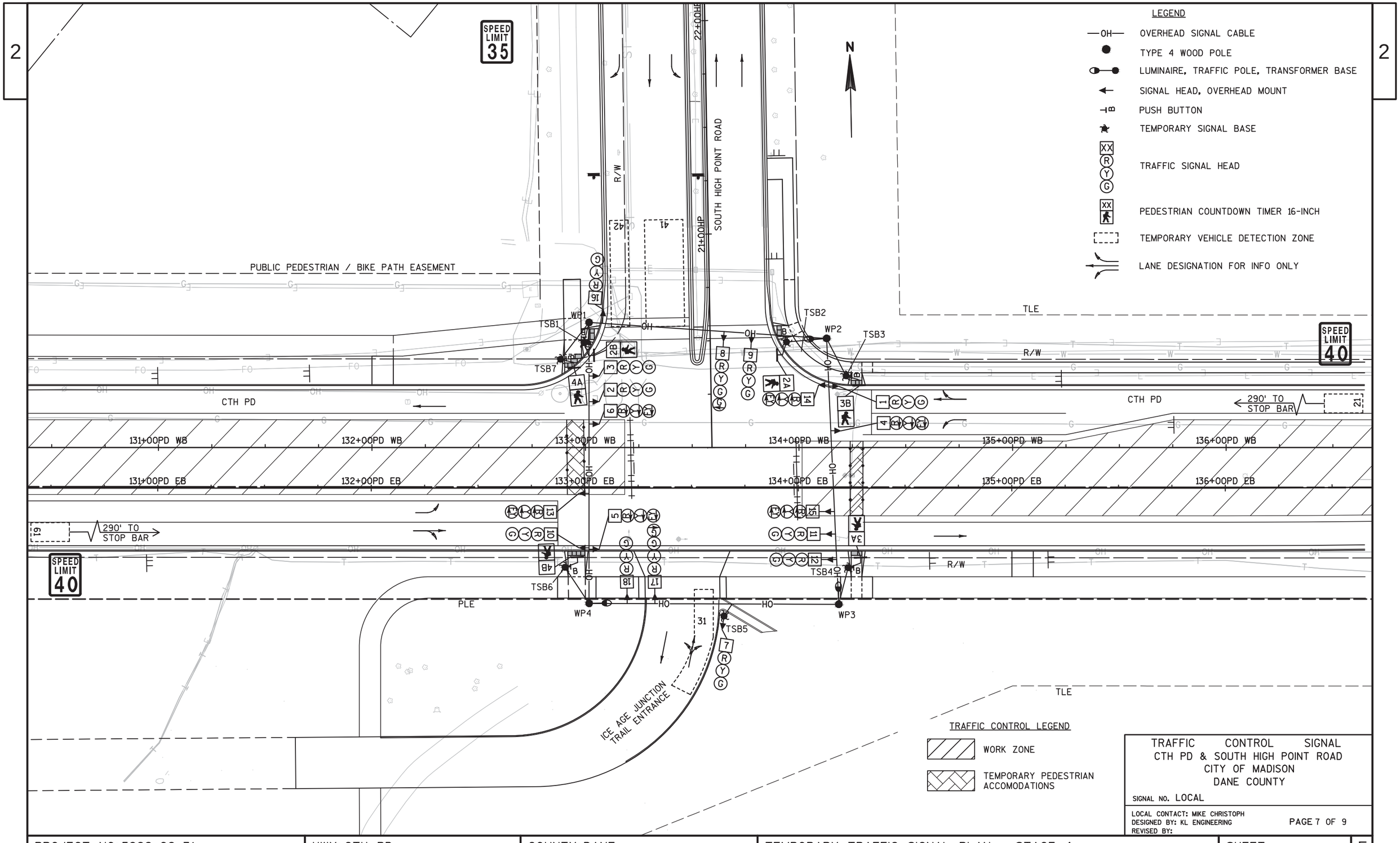
PAGE 5 OF 9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3A	SHEET 202	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC SIGNALS\024101-3A-ST.DWG PLOT DATE : 10/28/2016 12:51 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3B	SHEET 203	E



TRAFFIC CONTROL SIGNAL
CTH PD & SOUTH HIGH POINT ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL

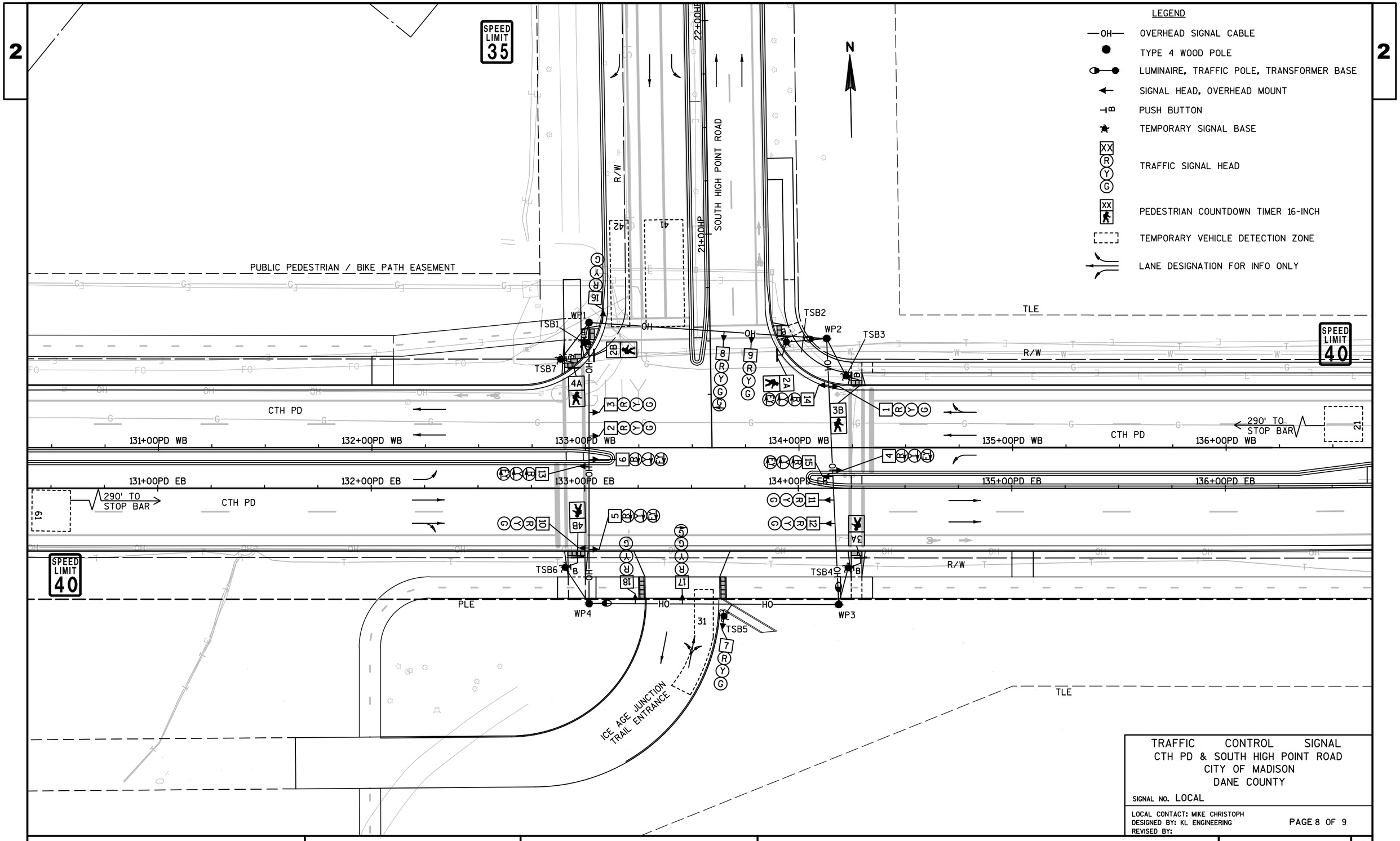
LOCAL CONTACT: MIKE CHRISTOPH
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 7 OF 9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4	SHEET 204	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC SIGNALS\024101-4.DWG PLOT DATE : 10/28/2016 12:53 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
CTH PD & SOUTH HIGH POINT ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: MIKE CHRISTOPH
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 8 OF 9

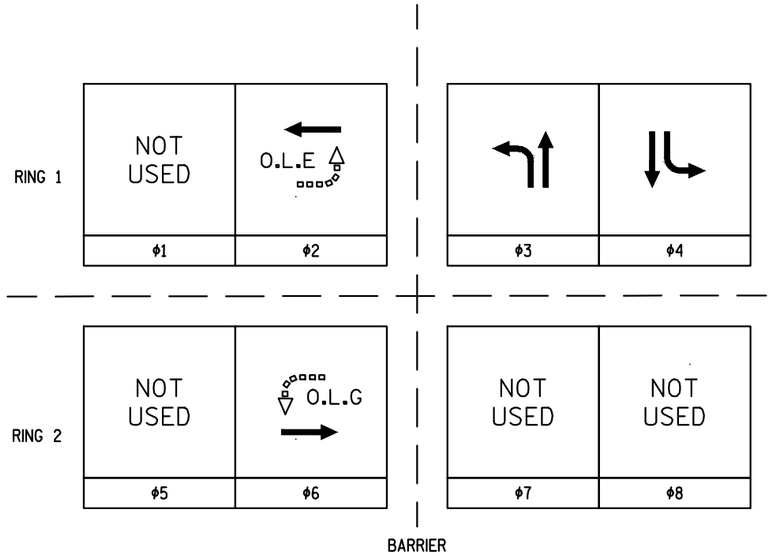
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - POST STAGE	SHEET E

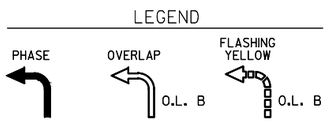
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC SIGNALS\024101-POST-ST.DWG PLOT DATE : 10/19/2016 7:39 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
ϕ1		
ϕ2	1-3	R
ϕ3	7-9	R
ϕ4	16-19	R
ϕ5		
ϕ6	10-12	R
ϕ7		
ϕ8		
ϕ2 PED	2A-2B	
ϕ3 PED	3A-3B	
ϕ4 PED	4A-4B	
ϕ6 PED	6A-6B	
ϕ8 PED		

O.L. ASSIGNMENTS			
O.L.A			
O.L.B			
O.L.C			
O.L.D			
O.L.E	13-15	R ←	ϕ2
O.L.F			
O.L.G	4-6	R ←	ϕ6
O.L.H			





TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W/ϕ	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MIN	X
3				X
4				X
5				
6	X	2	MIN	X
7				
8				

TYPE OF INTERCONNECT	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	
RADIO	

TYPE OF REMOTE COMMUNICATION	
NONE	X
FIBER	
CELL MODEM	
PHONE	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR #(S)	21	31	41	42	61			
PHASE CALLED	2	3	4	4	6			
PHASE EXTENDED	2	3	4	4	6			
DISCONNECT TIME								
CALLING DELAY		10.0		25.0				
EXTENSION STRETCH								
LOOP FUNCTION								

19	17	23	21	27	25	31	29	DETECTOR INPUT
								DETECTOR #(S)
								PHASE CALLED
								PHASE EXTENDED
								DISCONNECT TIME
								CALLING DELAY
								EXTENSION STRETCH
								LOOP FUNCTION

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR #(S)								
PHASE CALLED								
PHASE EXTENDED								
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

20	18	24	22	28	26	32	30	DETECTOR INPUT
								DETECTOR #(S)
								PHASE CALLED
								PHASE EXTENDED
								DISCONNECT PHASE
								CALLING DELAY
								EXTENSION STRETCH
								LOOP FUNCTION

TRAFFIC CONTROL SIGNAL
CTH PD & SOUTH HIGH POINT ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL

REGION CONTACT: MIKE CHRISTOPH
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 9 OF 9

PROJECT NO: 5992-09-31 | HWY: CTH PD | COUNTY: DANE | TEMPORARY SEQUENCE OF OPERATIONS | SHEET 206 | E

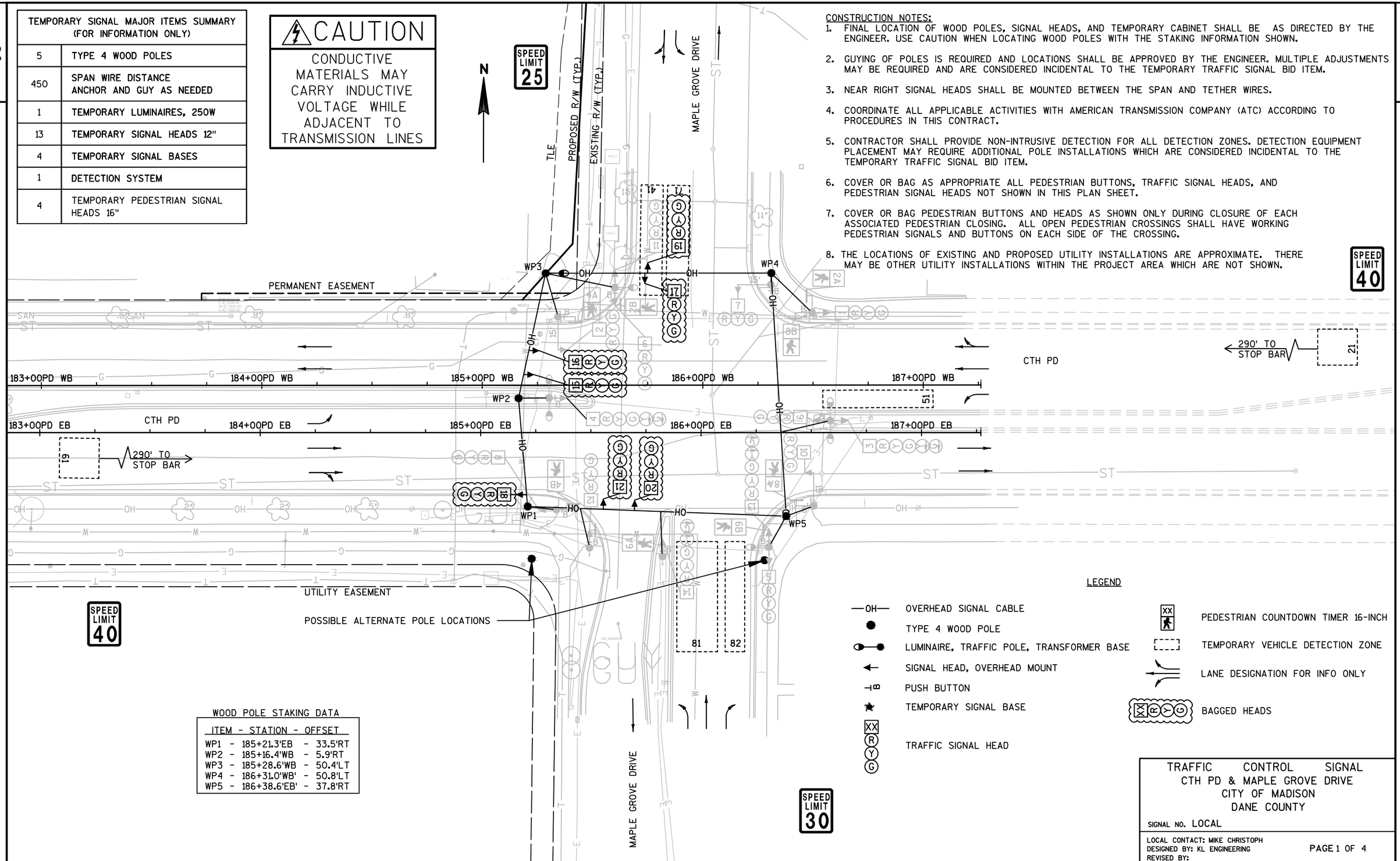
TEMPORARY SIGNAL MAJOR ITEMS SUMMARY (FOR INFORMATION ONLY)	
5	TYPE 4 WOOD POLES
450	SPAN WIRE DISTANCE ANCHOR AND GUY AS NEEDED
1	TEMPORARY LUMINAIRES, 250W
13	TEMPORARY SIGNAL HEADS 12"
4	TEMPORARY SIGNAL BASES
1	DETECTION SYSTEM
4	TEMPORARY PEDESTRIAN SIGNAL HEADS 16"

CAUTION

CONDUCTIVE MATERIALS MAY CARRY INDUCTIVE VOLTAGE WHILE ADJACENT TO TRANSMISSION LINES

CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES, SIGNAL HEADS, AND TEMPORARY CABINET SHALL BE AS DIRECTED BY THE ENGINEER. USE CAUTION WHEN LOCATING WOOD POLES WITH THE STAKING INFORMATION SHOWN.
2. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER. MULTIPLE ADJUSTMENTS MAY BE REQUIRED AND ARE CONSIDERED INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL BID ITEM.
3. NEAR RIGHT SIGNAL HEADS SHALL BE MOUNTED BETWEEN THE SPAN AND TETHER WIRES.
4. COORDINATE ALL APPLICABLE ACTIVITIES WITH AMERICAN TRANSMISSION COMPANY (ATC) ACCORDING TO PROCEDURES IN THIS CONTRACT.
5. CONTRACTOR SHALL PROVIDE NON-INTRUSIVE DETECTION FOR ALL DETECTION ZONES. DETECTION EQUIPMENT PLACEMENT MAY REQUIRE ADDITIONAL POLE INSTALLATIONS WHICH ARE CONSIDERED INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL BID ITEM.
6. COVER OR BAG AS APPROPRIATE ALL PEDESTRIAN BUTTONS, TRAFFIC SIGNAL HEADS, AND PEDESTRIAN SIGNAL HEADS NOT SHOWN IN THIS PLAN SHEET.
7. COVER OR BAG PEDESTRIAN BUTTONS AND HEADS AS SHOWN ONLY DURING CLOSURE OF EACH ASSOCIATED PEDESTRIAN CLOSING. ALL OPEN PEDESTRIAN CROSSINGS SHALL HAVE WORKING PEDESTRIAN SIGNALS AND BUTTONS ON EACH SIDE OF THE CROSSING.
8. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.



WOOD POLE STAKING DATA

ITEM - STATION - OFFSET			
WP1	-	185+21.3'EB	- 33.5'RT
WP2	-	185+16.4'WB	- 5.9'RT
WP3	-	185+28.6'WB	- 50.4'LT
WP4	-	186+31.0'WB'	- 50.8'LT
WP5	-	186+38.6'EB'	- 37.8'RT

LEGEND

- OVERHEAD SIGNAL CABLE
- TYPE 4 WOOD POLE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- SIGNAL HEAD, OVERHEAD MOUNT
- PUSH BUTTON
- TEMPORARY SIGNAL BASE
- TRAFFIC SIGNAL HEAD
- PEDESTRIAN COUNTDOWN TIMER 16-INCH
- TEMPORARY VEHICLE DETECTION ZONE
- LANE DESIGNATION FOR INFO ONLY
- BAGGED HEADS

TRAFFIC CONTROL SIGNAL
CTH PD & MAPLE GROVE DRIVE
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: MIKE CHRISTOPH
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 1 OF 4

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - PRE STAGE	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC SIGNALS\024102-PRE-ST.DWG PLOT DATE : 12/1/2016 3:39 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

2

N

SPEED LIMIT 25

MAPLE GROVE DRIVE

TLE

PROPOSED R/W (TYP.)

EXISTING R/W (TYP.)

PERMANENT EASEMENT

COVER PEDESTRIAN BUTTON DURING PEDESTRIAN CROSSING CLOSURE

WP1

WP2

WP3

WP4

WP5

OH

HO

CTH PD

183+00PD WB

184+00PD WB

185+00PD WB

186+00PD WB

187+00PD WB

183+00PD EB

184+00PD EB

185+00PD EB

186+00PD EB

187+00PD EB

290' TO STOP BAR

SPEED LIMIT 40

SPEED LIMIT 30

UTILITY EASEMENT

POSSIBLE ALTERNATE POLE LOCATIONS

TRAFFIC CONTROL LEGEND

WORK ZONE

TEMPORARY SIDEWALK

LEGEND

OVERHEAD SIGNAL CABLE

TYPE 4 WOOD POLE

LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE

SIGNAL HEAD, OVERHEAD MOUNT

PUSH BUTTON

TEMPORARY SIGNAL BASE

TRAFFIC SIGNAL HEAD

PEDESTRIAN COUNTDOWN TIMER 16-INCH

TEMPORARY VEHICLE DETECTION ZONE

LANE DESIGNATION FOR INFO ONLY

BAGGED HEADS

TRAFFIC CONTROL SIGNAL
CTH PD & MAPLE GROVE DRIVE
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: MIKE CHRISTOPH
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 2 OF 4

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3 & STAGE 4	SHEET 208	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC SIGNALS\024102-3A-ST.DWG PLOT DATE : 12/1/2016 3:40 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

SPEED LIMIT 25

SPEED LIMIT 40

SPEED LIMIT 30

PROPOSED R/W (TYP.)

EXISTING R/W (TYP.)

TLE

MAPLE GROVE DRIVE

ONLY

PERMANENT EASEMENT

UTILITY EASEMENT

POSSIBLE ALTERNATE POLE LOCATIONS

CTH PD

SAN ST

183+00PD WB

184+00PD WB

185+00PD WB

186+00PD WB

187+00PD WB

183+00PD EB

184+00PD EB

185+00PD EB

186+00PD EB

187+00PD EB

290' TO STOP BAR

WP1

WP2

WP3

WP4

WP5

TSB1

TSB2

TSB3

TSB4

OH

HO

LEGEND

—OH—	OVERHEAD SIGNAL CABLE
●	TYPE 4 WOOD POLE
●—	LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
←	SIGNAL HEAD, OVERHEAD MOUNT
⊣B	PUSH BUTTON
✱	TEMPORARY SIGNAL BASE
XX R Y G	TRAFFIC SIGNAL HEAD
XX	PEDESTRIAN COUNTDOWN TIMER 16-INCH
[ ]	TEMPORARY VEHICLE DETECTION ZONE
	LANE DESIGNATION FOR INFO ONLY
	BAGGED HEADS

TRAFFIC CONTROL SIGNAL
CTH PD & MAPLE GROVE DRIVE
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: MIKE CHRISTOPH
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 3 OF 4

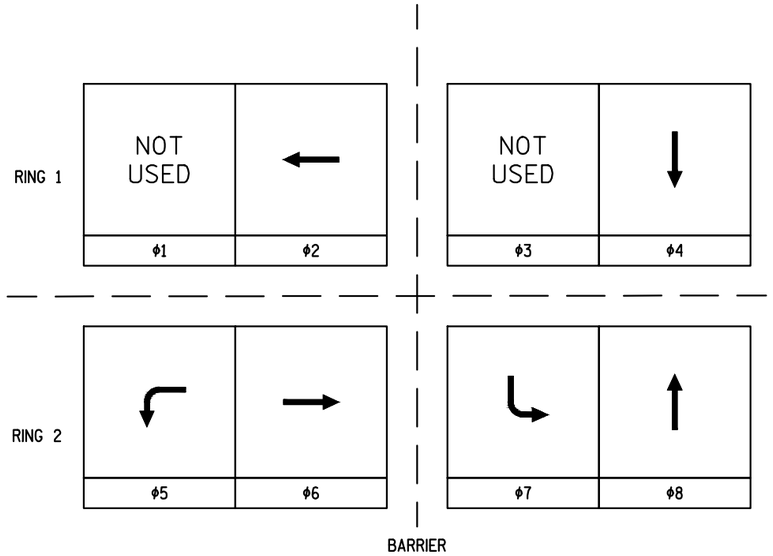
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - POST STAGE	SHEET 209 E

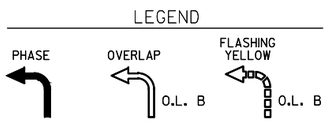
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC SIGNALS\024102-POST-ST.DWG PLOT DATE : 12/1/2016 3:41 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

	HEAD NUMBERS	FLASH
ϕ1		
ϕ2	1-4,15,16	R
ϕ3		
ϕ4	11-14,19-21	R
ϕ5	3,4	R ←
ϕ6	8-10,18	R
ϕ7	13,14	R ←
ϕ8	5-7,17	R
ϕ2 PED	2A-2C	
ϕ4 PED	4A-4D	
ϕ6 PED	6A-6C	
ϕ8 PED	8A-8B	

O.L. ASSIGNMENTS
O.L.A
O.L.B
O.L.C
O.L.D
O.L.E
O.L.F
O.L.G
O.L.H







TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W/ϕ	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MIN	X
3				
4		8		X
5				X
6	X	2	MIN	X
7				X
8		4		X

TYPE OF INTERCONNECT	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR	
CLOSED LOOP FIBER OPTIC	
RADIO	

TYPE OF REMOTE COMMUNICATION	
NONE	X
FIBER	
CELL MODEM	
PHONE	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR #(S)	21	41	42	51	61	71	81	82
PHASE CALLED	2	4	4	5	6	7	8	8
PHASE EXTENDED	2	4	4	5	6	7	8	8
DISCONNECT TIME								
CALLING DELAY			10.0					10.0
EXTENSION STRETCH								
LOOP FUNCTION								

19	17	23	21	27	25	31	29	DETECTOR INPUT
								DETECTOR #(S)
								PHASE CALLED
								PHASE EXTENDED
								DISCONNECT TIME
								CALLING DELAY
								EXTENSION STRETCH
								LOOP FUNCTION

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR #(S)								
PHASE CALLED								
PHASE EXTENDED								
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

20	18	24	22	28	26	32	30	DETECTOR INPUT
								DETECTOR #(S)
								PHASE CALLED
								PHASE EXTENDED
								DISCONNECT PHASE
								CALLING DELAY
								EXTENSION STRETCH
								LOOP FUNCTION

TRAFFIC CONTROL SIGNAL
CTH PD & MAPLE GROVE DRIVE
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: MIKE CHRISTOPH
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 4 OF 4

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC SIGNALS\024302-PH.DWG
LAYOUT NAME - 024302-PH - SEQUENCE
PLOT DATE : 12/1/2016 3:42 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2

CAUTION

CONDUCTIVE MATERIALS MAY CARRY INDUCTIVE VOLTAGE WHILE ADJACENT TO TRANSMISSION LINES

N

SPEED LIMIT 35

R/W (TYP.)

SOUTH HIGH POINT ROAD

LEGEND

- TRAFFIC SIGNAL HEAD
- LB TYPE (X) CONCRETE BASE
- EVP DETECTOR HEAD
- CONTROL CABINET
- ELECTRICAL PULL BOX TYPE 1
- ELECTRICAL PULL BOX TYPE 3
- ELECTRICAL PULL BOX TYPE 5
- ELECTRICAL PULL BOX TYPE 7
- ELECTRICAL UTILITY ACCESS STRUCTURE
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- LIGHTING CONDUIT
- SIGNAL CONDUIT
- CONDUIT LOOP DETECTOR
- 50 PEDESTRIAN COUNTDOWN TIMER 16-INCH

NOTE: ALL LENSES 12-INCH

A

PUBLIC PEDESTRIAN / BIKE PATH EASEMENT

B

SPEED LIMIT 40

MATCH LINE

MATCH LINE

L5 L4 L3 L2 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19

CTH PD

131+00PD WB 132+00PD WB 133+00PD WB 134+00PD WB 135+00PD WB 136+00PD WB

131+00PD EB 132+00PD EB 133+00PD EB 134+00PD EB 135+00PD EB 136+00PD EB

TC1 TS1 TS2 TS3 TS4 TS5 TS6 TS7 TS8 TS9

SL6531 SL9614 SL9615

PLE (TYP.)

TLE

ICE AGE JUNCTION TRAIL ENTRANCE

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE PULL BOXES AND CONDUIT RUNS INSPECTED 3 DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
3. LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT SHOWN IN GRAYSHADE FOR PLAN CLARITY.

PERMANENT SIGNAL PHASE CONFIGURATION WITH HEAD NUMBERS

PHASE 2 CTH PD EB	PHASE 4 HIGH POINT NB/SB	PHASE 6 CTH PD WB
VEHICLE: 5, 8, 9, 10, 15, 16	VEHICLE: 1, 2, 3, 4, 11, 12, 13, 20 PEDESTRIAN: 22, 23, 24, 25	VEHICLE: 6, 7, 14, 15, 16, 17, 18, 19 PEDESTRIAN: 21, 26

TRAFFIC CONTROL SIGNAL
CTH PD & SOUTH HIGH POINT ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: JERRY SCHIPPA
DESIGNED BY: KL ENGINEERING
REVISED BY:

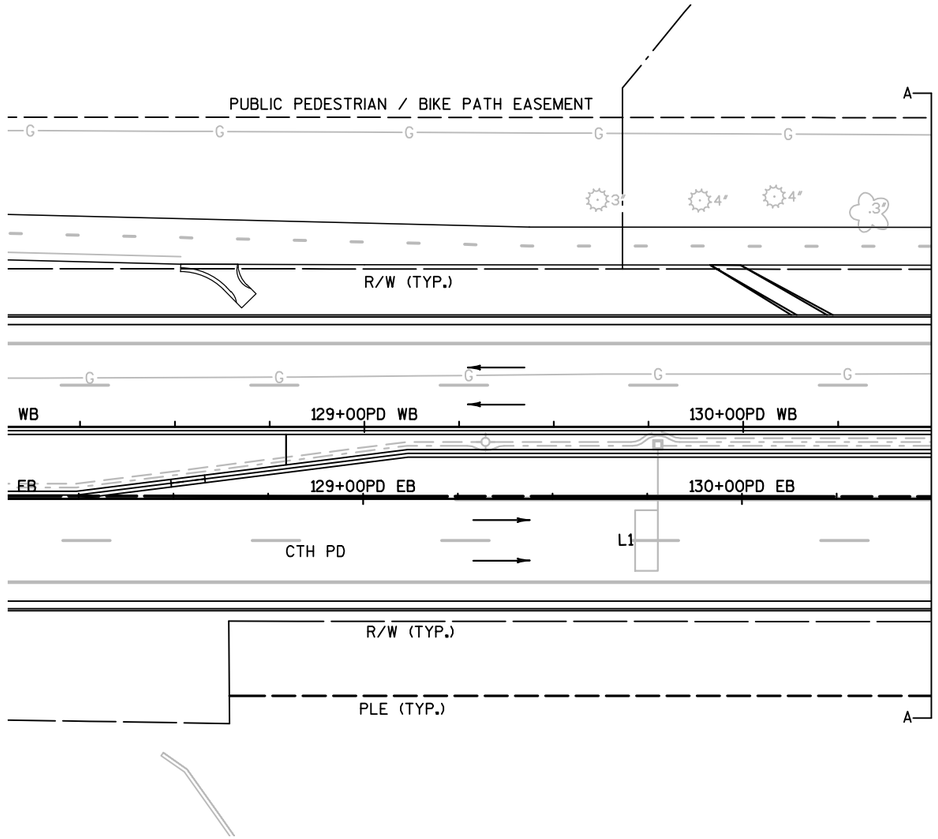
PAGE 1 OF 2

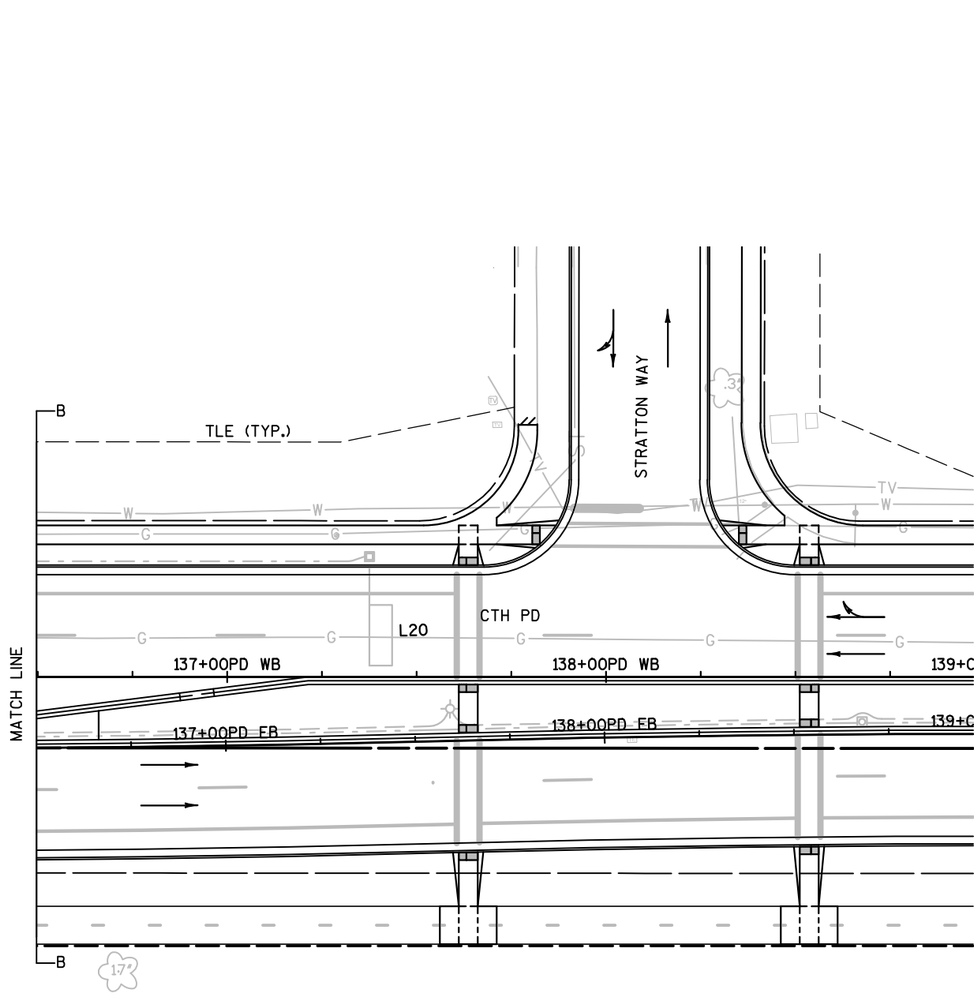
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC SIGNAL PLAN	SHEET 211	E

2

⚠CAUTION

CONDUCTIVE MATERIALS MAY CARRY INDUCTIVE VOLTAGE WHILE ADJACENT TO TRANSMISSION LINES





ELECTRICAL PULL BOX TYPE 1

ELECTRICAL PULL BOX TYPE 3

CONDUIT LOOP DETECTOR

TRAFFIC CONTROL SIGNAL
CTH PD & SOUTH HIGH POINT ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: JERRY SHIPPA
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 2 OF 2

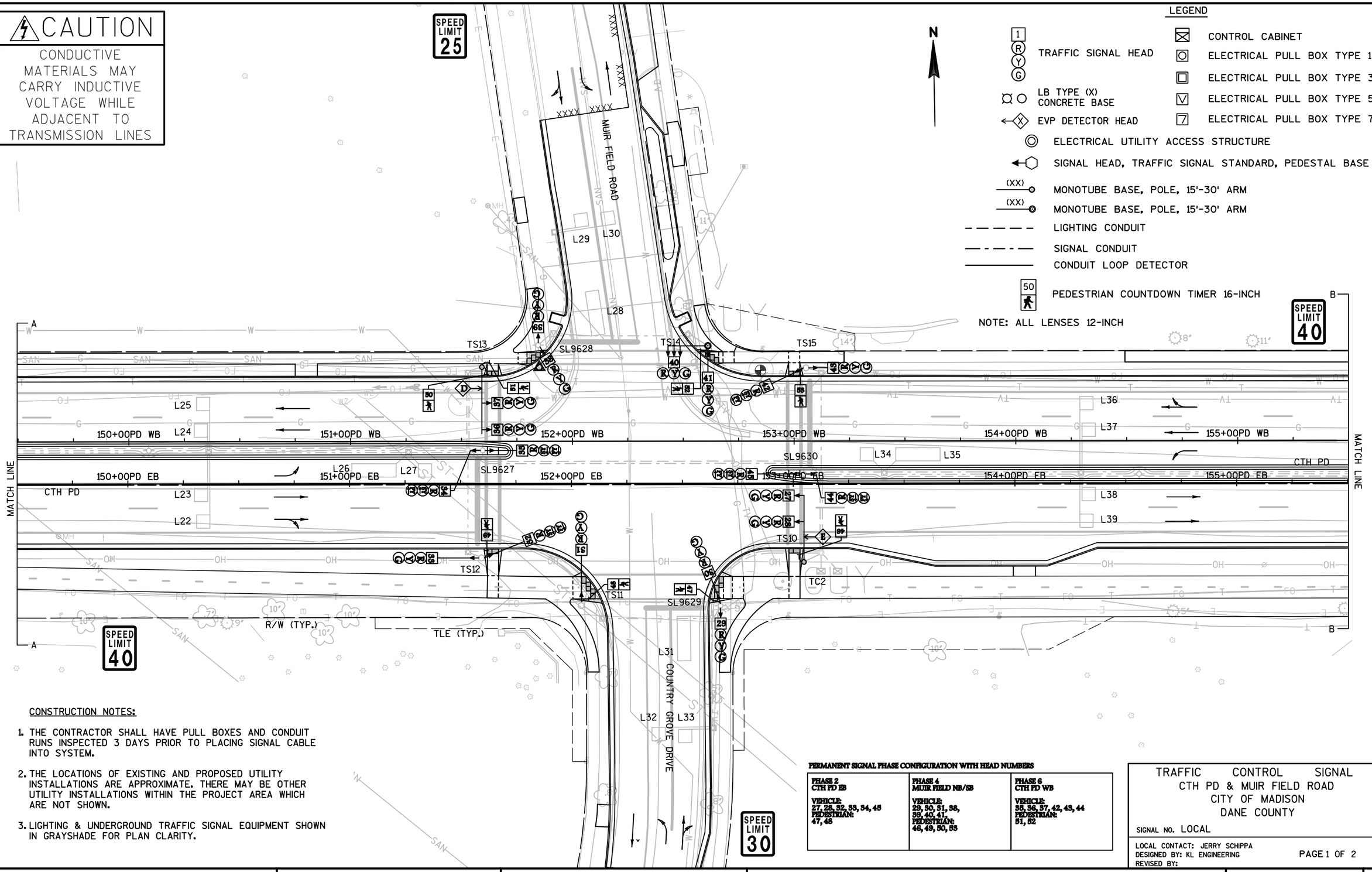
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC SIGNAL PLAN	SHEET 212	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC SIGNALS\024201-SP.DWG PLOT DATE : 10/31/2016 2:04 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

CAUTION

CONDUCTIVE MATERIALS MAY CARRY INDUCTIVE VOLTAGE WHILE ADJACENT TO TRANSMISSION LINES



LEGEND

- TRAFFIC SIGNAL HEAD
- LB TYPE (X) CONCRETE BASE
- EVP DETECTOR HEAD
- CONTROL CABINET
- ELECTRICAL PULL BOX TYPE 1
- ELECTRICAL PULL BOX TYPE 3
- ELECTRICAL PULL BOX TYPE 5
- ELECTRICAL PULL BOX TYPE 7
- ELECTRICAL UTILITY ACCESS STRUCTURE
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- LIGHTING CONDUIT
- SIGNAL CONDUIT
- CONDUIT LOOP DETECTOR
- PEDESTRIAN COUNTDOWN TIMER 16-INCH

NOTE: ALL LENSES 12-INCH

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE PULL BOXES AND CONDUIT RUNS INSPECTED 3 DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
3. LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT SHOWN IN GRAYSHADE FOR PLAN CLARITY.

PERMANENT SIGNAL PHASE CONFIGURATION WITH HEAD NUMBERS

PHASE 2 CTH PD EB	PHASE 4 MUIR FIELD NB/SB	PHASE 6 CTH PD WB
VEHICLE: 27, 28, 52, 53, 54, 45 PEDESTRIAN: 47, 48	VEHICLE: 29, 30, 31, 38, 39, 40, 41 PEDESTRIAN: 46, 49, 50, 53	VEHICLE: 35, 36, 37, 42, 43, 44 PEDESTRIAN: 51, 52

TRAFFIC CONTROL SIGNAL
CTH PD & MUIR FIELD ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: JERRY SCHIPPA
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 1 OF 2

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC SIGNAL PLAN	SHEET 213	E

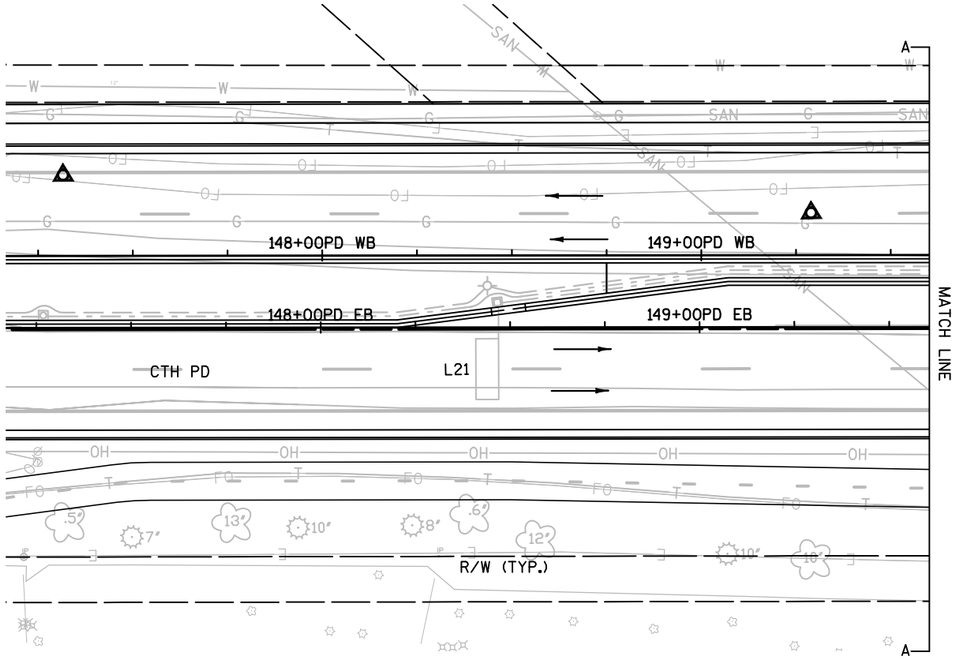
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC SIGNALS\024203-SP.DWG PLOT DATE : 10/31/2016 2:05 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

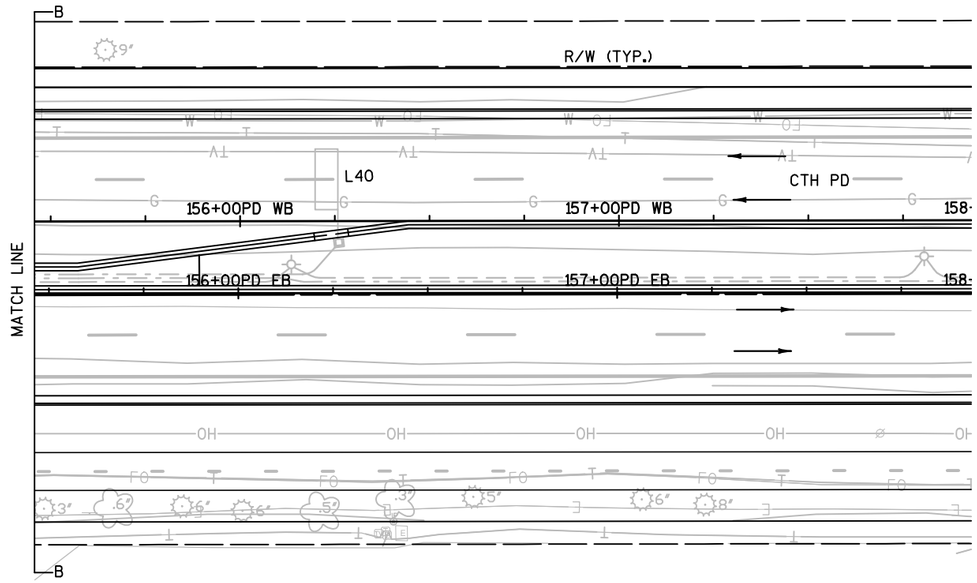
2

CAUTION

CONDUCTIVE MATERIALS MAY CARRY INDUCTIVE VOLTAGE WHILE ADJACENT TO TRANSMISSION LINES

N





ELECTRICAL PULL BOX TYPE 1

ELECTRICAL PULL BOX TYPE 3

CONDUIT LOOP DETECTOR

TRAFFIC CONTROL SIGNAL
CTH PD & MUIR FIELD ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL

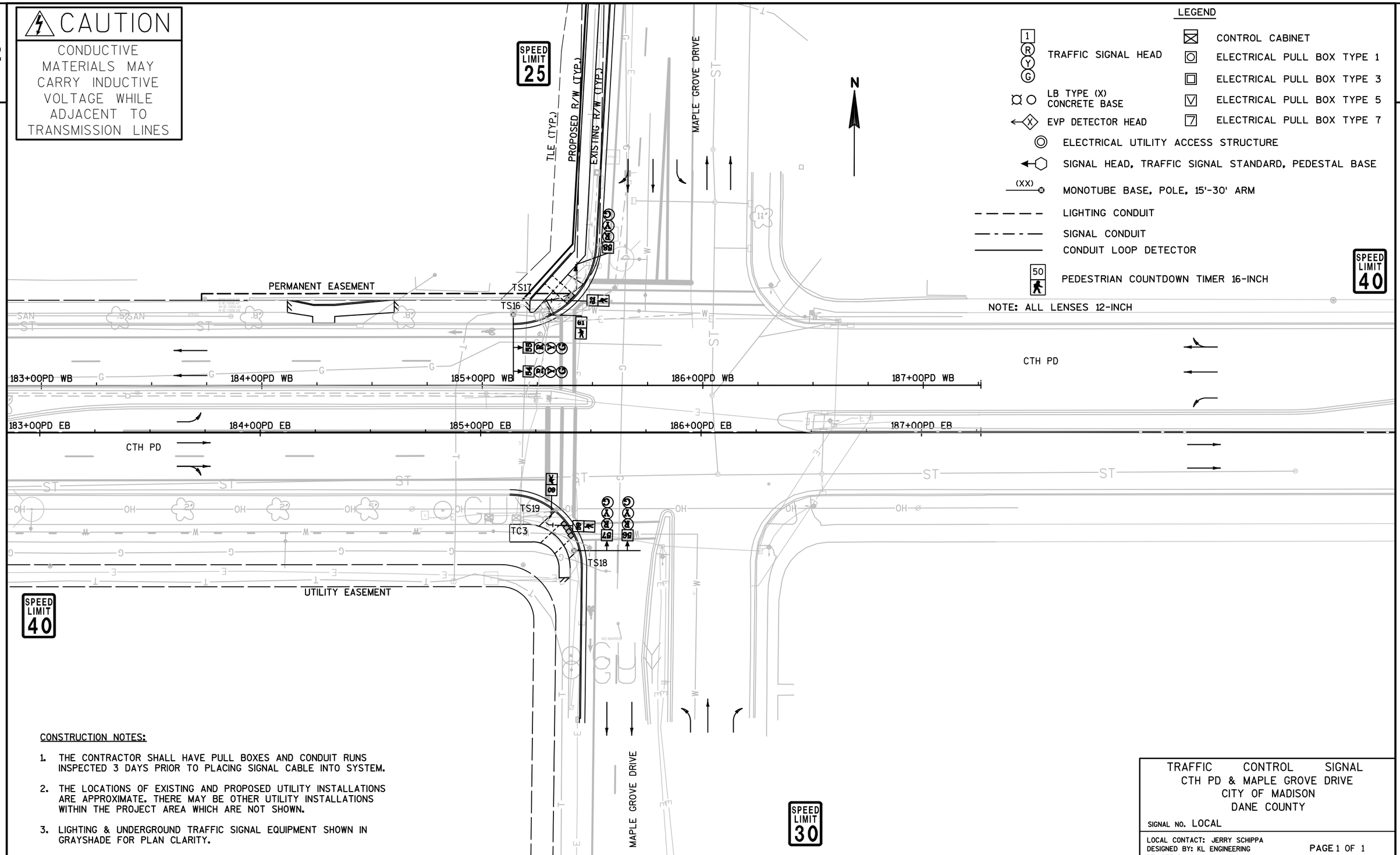
LOCAL CONTACT: JERRY SCHIPPA
DESIGNED BY: KL ENGINEERING
REVISED BY:

PAGE 2 OF 2

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC SIGNAL PLAN	SHEET 214	E

⚠ CAUTION

CONDUCTIVE MATERIALS MAY CARRY INDUCTIVE VOLTAGE WHILE ADJACENT TO TRANSMISSION LINES



LEGEND

- TRAFFIC SIGNAL HEAD (1 / R / Y / G)
- LB TYPE (X) CONCRETE BASE
- EVP DETECTOR HEAD (X)
- CONTROL CABINET
- ELECTRICAL PULL BOX TYPE 1
- ELECTRICAL PULL BOX TYPE 3
- ELECTRICAL PULL BOX TYPE 5
- ELECTRICAL PULL BOX TYPE 7
- ELECTRICAL UTILITY ACCESS STRUCTURE
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- LIGHTING CONDUIT
- SIGNAL CONDUIT
- CONDUIT LOOP DETECTOR
- 50 PEDESTRIAN COUNTDOWN TIMER 16-INCH

NOTE: ALL LENSES 12-INCH

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE PULL BOXES AND CONDUIT RUNS INSPECTED 3 DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
3. LIGHTING & UNDERGROUND TRAFFIC SIGNAL EQUIPMENT SHOWN IN GRAYSHADE FOR PLAN CLARITY.

TRAFFIC CONTROL SIGNAL
CTH PD & MAPLE GROVE DRIVE
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL

LOCAL CONTACT: JERRY SCHIPPA
DESIGNED BY: KL ENGINEERING
REVISED BY:

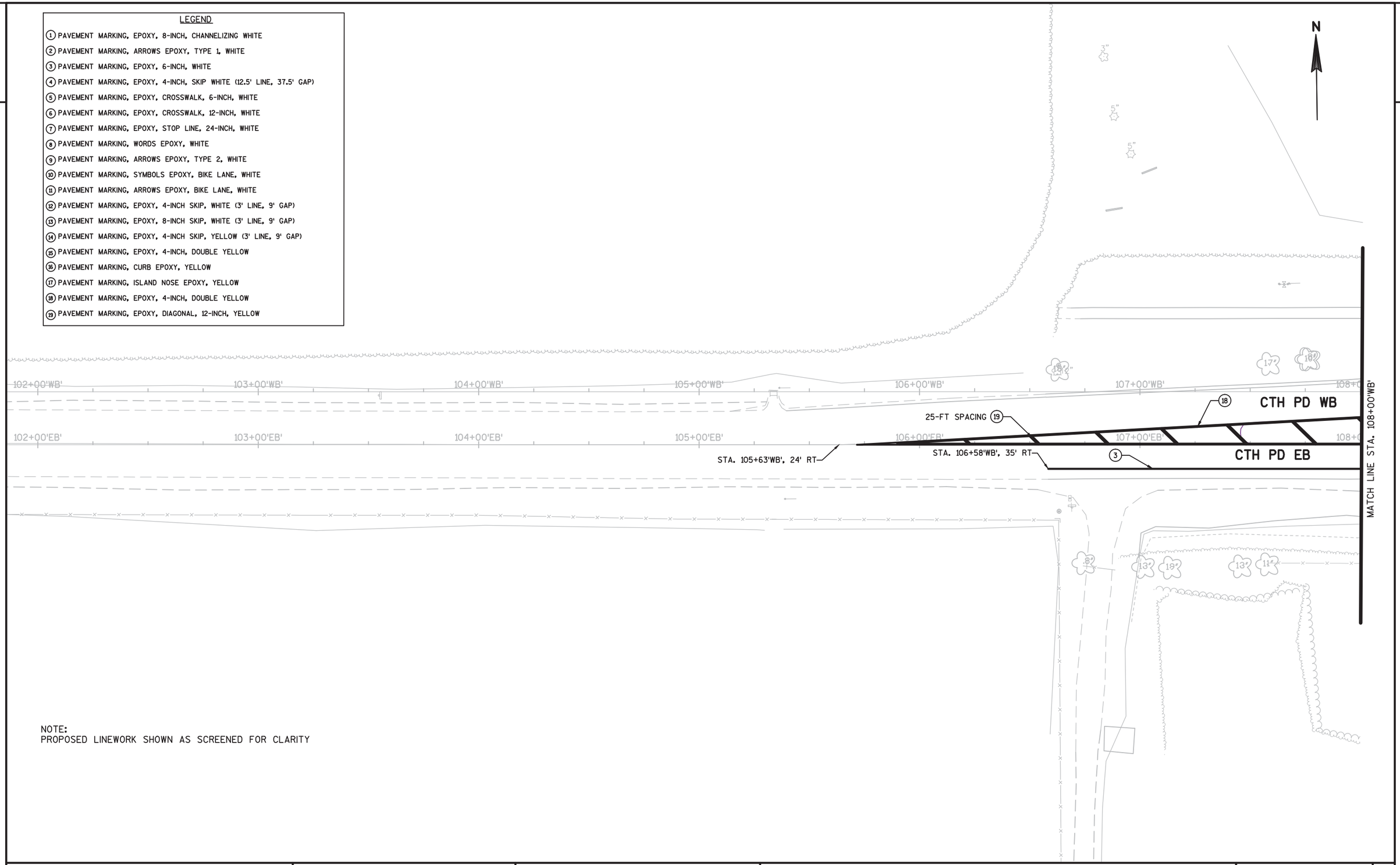
PAGE 1 OF 1

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC SIGNAL PLAN	SHEET 215	E

2

LEGEND

1. PAVEMENT MARKING, EPOXY, 8-INCH, CHANNELIZING WHITE
2. PAVEMENT MARKING, ARROWS EPOXY, TYPE 1, WHITE
3. PAVEMENT MARKING, EPOXY, 6-INCH, WHITE
4. PAVEMENT MARKING, EPOXY, 4-INCH, SKIP WHITE (12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING, EPOXY, CROSSWALK, 6-INCH, WHITE
6. PAVEMENT MARKING, EPOXY, CROSSWALK, 12-INCH, WHITE
7. PAVEMENT MARKING, EPOXY, STOP LINE, 24-INCH, WHITE
8. PAVEMENT MARKING, WORDS EPOXY, WHITE
9. PAVEMENT MARKING, ARROWS EPOXY, TYPE 2, WHITE
10. PAVEMENT MARKING, SYMBOLS EPOXY, BIKE LANE, WHITE
11. PAVEMENT MARKING, ARROWS EPOXY, BIKE LANE, WHITE
12. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, WHITE (3' LINE, 9' GAP)
13. PAVEMENT MARKING, EPOXY, 8-INCH SKIP, WHITE (3' LINE, 9' GAP)
14. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, YELLOW (3' LINE, 9' GAP)
15. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
16. PAVEMENT MARKING, CURB EPOXY, YELLOW
17. PAVEMENT MARKING, ISLAND NOSE EPOXY, YELLOW
18. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
19. PAVEMENT MARKING, EPOXY, DIAGONAL, 12-INCH, YELLOW



NOTE:
PROPOSED LINEWORK SHOWN AS SCREENED FOR CLARITY

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PAVEMENT MARKING: CTH PD	SHEET 216	E

2

LEGEND

1. PAVEMENT MARKING, EPOXY, 8-INCH, CHANNELIZING WHITE
2. PAVEMENT MARKING, ARROWS EPOXY, TYPE 1, WHITE
3. PAVEMENT MARKING, EPOXY, 6-INCH, WHITE
4. PAVEMENT MARKING, EPOXY, 4-INCH, SKIP WHITE (12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING, EPOXY, CROSSWALK, 6-INCH, WHITE
6. PAVEMENT MARKING, EPOXY, CROSSWALK, 12-INCH, WHITE
7. PAVEMENT MARKING, EPOXY, STOP LINE, 24-INCH, WHITE
8. PAVEMENT MARKING, WORDS EPOXY, WHITE
9. PAVEMENT MARKING, ARROWS EPOXY, TYPE 2, WHITE
10. PAVEMENT MARKING, SYMBOLS EPOXY, BIKE LANE, WHITE
11. PAVEMENT MARKING, ARROWS EPOXY, BIKE LANE, WHITE
12. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, WHITE (3' LINE, 9' GAP)
13. PAVEMENT MARKING, EPOXY, 8-INCH SKIP, WHITE (3' LINE, 9' GAP)
14. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, YELLOW (3' LINE, 9' GAP)
15. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
16. PAVEMENT MARKING, CURB EPOXY, YELLOW
17. PAVEMENT MARKING, ISLAND NOSE EPOXY, YELLOW
18. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
19. PAVEMENT MARKING, EPOXY, DIAGONAL, 12-INCH, YELLOW

N

MERITER WAY

MATCH LINE STA. 108+00'WB'

MATCH LINE STA. 114+00'WB'

CTH PD WB

CTH PD EB

STA. 108+37'WB', 24' RT

STA. 109+34'WB', 24' RT

STA. 109+66'WB', 13' RT

STA. 109+99'WB', 18' RT

STA. 110+09'WB', 0'

STA. 110+40'WB', 12' RT

STA. 110+40'WB', 19' RT

STA. 110+51'WB', 24' RT

STA. 110+51'WB', 35' RT

STA. 111+04'WB', 46' RT

STA. 111+04'WB', 35' RT

STA. 111+58'WB', 11' LT

STA. 111+70'WB', 49' RT

STA. 111+85'WB', 49' RT

STA. 112+58'WB', 11' LT

STA. 112+58'WB', 22' LT

19 25-FT SPACING

16"

10"

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PAVEMENT MARKING: CTH PD	SHEET 217	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 021202

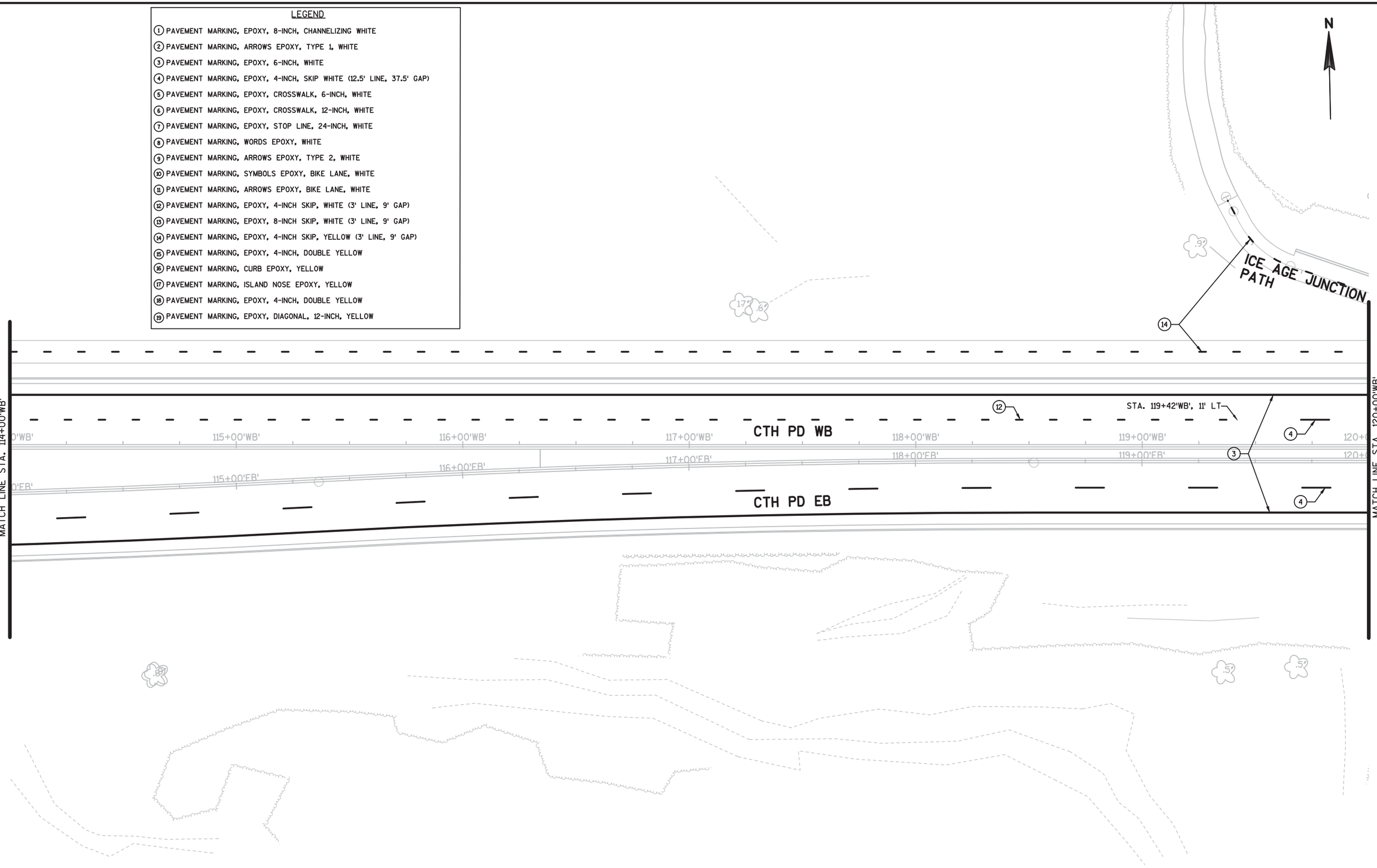
PLOT DATE : 10/17/2016 2:04 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

1. PAVEMENT MARKING, EPOXY, 8-INCH, CHANNELIZING WHITE
2. PAVEMENT MARKING, ARROWS EPOXY, TYPE 1, WHITE
3. PAVEMENT MARKING, EPOXY, 6-INCH, WHITE
4. PAVEMENT MARKING, EPOXY, 4-INCH, SKIP WHITE (12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING, EPOXY, CROSSWALK, 6-INCH, WHITE
6. PAVEMENT MARKING, EPOXY, CROSSWALK, 12-INCH, WHITE
7. PAVEMENT MARKING, EPOXY, STOP LINE, 24-INCH, WHITE
8. PAVEMENT MARKING, WORDS EPOXY, WHITE
9. PAVEMENT MARKING, ARROWS EPOXY, TYPE 2, WHITE
10. PAVEMENT MARKING, SYMBOLS EPOXY, BIKE LANE, WHITE
11. PAVEMENT MARKING, ARROWS EPOXY, BIKE LANE, WHITE
12. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, WHITE (3' LINE, 9' GAP)
13. PAVEMENT MARKING, EPOXY, 8-INCH SKIP, WHITE (3' LINE, 9' GAP)
14. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, YELLOW (3' LINE, 9' GAP)
15. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
16. PAVEMENT MARKING, CURB EPOXY, YELLOW
17. PAVEMENT MARKING, ISLAND NOSE EPOXY, YELLOW
18. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
19. PAVEMENT MARKING, EPOXY, DIAGONAL, 12-INCH, YELLOW



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PAVEMENT MARKING: CTH PD	SHEET 218	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 021203

PLOT DATE : 10/17/2016 2:04 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

ICE AGE JUNCTION PATH

SNOWYCAP TRAIL

ICE AGE NATIONAL SCENIC TRAIL

CTH PD WB

CTH PD EB

MATCH LINE STA. 120+00'WB'

MATCH LINE STA. 126+00'WB'

DRIVEWAY 122+00'DW'

ICE AGE NATIONAL SCENIC TRAIL

LEGEND

1. PAVEMENT MARKING, EPOXY, 8-INCH, CHANNELIZING WHITE
2. PAVEMENT MARKING, ARROWS EPOXY, TYPE 1, WHITE
3. PAVEMENT MARKING, EPOXY, 6-INCH, WHITE
4. PAVEMENT MARKING, EPOXY, 4-INCH, SKIP WHITE (12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING, EPOXY, CROSSWALK, 6-INCH, WHITE
6. PAVEMENT MARKING, EPOXY, CROSSWALK, 12-INCH, WHITE
7. PAVEMENT MARKING, EPOXY, STOP LINE, 24-INCH, WHITE
8. PAVEMENT MARKING, WORDS EPOXY, WHITE
9. PAVEMENT MARKING, ARROWS EPOXY, TYPE 2, WHITE
10. PAVEMENT MARKING, SYMBOLS EPOXY, BIKE LANE, WHITE
11. PAVEMENT MARKING, ARROWS EPOXY, BIKE LANE, WHITE
12. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, WHITE (3' LINE, 9' GAP)
13. PAVEMENT MARKING, EPOXY, 8-INCH SKIP, WHITE (3' LINE, 9' GAP)
14. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, YELLOW (3' LINE, 9' GAP)
15. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
16. PAVEMENT MARKING, CURB EPOXY, YELLOW
17. PAVEMENT MARKING, ISLAND NOSE EPOXY, YELLOW
18. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
19. PAVEMENT MARKING, EPOXY, DIAGONAL, 12-INCH, YELLOW

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PAVEMENT MARKING: CTH PD	SHEET 219	E

2

2

N

MATCH LINE STA. 126+00'WB'

MATCH LINE STA. 132+00'WB'

CTH PD WB

126+00'WB' 127+00'WB' 128+00'WB' 129+00'WB' 130+00'WB' 131+00'WB' 132+00'WB'

126+00'EB' 127+00'EB' 128+00'EB' 129+00'EB' 130+00'EB' 131+00'EB' 132+00'EB'

STA. 129+24'WB', 19' RT

STA. 129+37'WB', 13' RT

STA. 130+18'WB', 13' RT

STA. 131+01'WB', 13' RT

STA. 131+81'WB', 13' RT

CTH PD EB

TRAIL A

ICE AGE TRAIL ENTRANCE

51+00'IE' 52+00'IE' 53+00'IE' 12+00'A'

LEGEND

1. PAVEMENT MARKING, EPOXY, 8-INCH, CHANNELIZING WHITE
2. PAVEMENT MARKING, ARROWS EPOXY, TYPE 1, WHITE
3. PAVEMENT MARKING, EPOXY, 6-INCH, WHITE
4. PAVEMENT MARKING, EPOXY, 4-INCH, SKIP WHITE (12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING, EPOXY, CROSSWALK, 6-INCH, WHITE
6. PAVEMENT MARKING, EPOXY, CROSSWALK, 12-INCH, WHITE
7. PAVEMENT MARKING, EPOXY, STOP LINE, 24-INCH, WHITE
8. PAVEMENT MARKING, WORDS EPOXY, WHITE
9. PAVEMENT MARKING, ARROWS EPOXY, TYPE 2, WHITE
10. PAVEMENT MARKING, SYMBOLS EPOXY, BIKE LANE, WHITE
11. PAVEMENT MARKING, ARROWS EPOXY, BIKE LANE, WHITE
12. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, WHITE (3' LINE, 9' GAP)
13. PAVEMENT MARKING, EPOXY, 8-INCH SKIP, WHITE (3' LINE, 9' GAP)
14. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, YELLOW (3' LINE, 9' GAP)
15. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
16. PAVEMENT MARKING, CURB EPOXY, YELLOW
17. PAVEMENT MARKING, ISLAND NOSE EPOXY, YELLOW
18. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
19. PAVEMENT MARKING, EPOXY, DIAGONAL, 12-INCH, YELLOW

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PAVEMENT MARKING: CTH PD	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 021205

PLOT DATE : 10/17/2016 2:05 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

MATCH LINE STA. 22+00'HP'

SOUTH HIGH POINT ROAD

LANE LANE LANE

22+00'HP'

STA. 21+43'HP', 42' LT
STA. 21+43'HP', 27' LT
STA. 21+43'HP', 15' LT
STA. 20+80'HP', 42' LT
STA. 133+38'WB', 55' LT
STA. 133+27'WB', 55' LT
STA. 133+22'WB', 55' LT
STA. 133+09'WB', 55' LT
STA. 133+07'WB', 51' LT
STA. 133+04'WB', 45' LT
STA. 132+99'WB', 39' LT
STA. 20+80'HP', 27' LT
STA. 20+80'HP', 15' LT
STA. 20+99'HP', 24' RT
STA. 20+84'HP', 24' RT
STA. 133+49'WB', 55' LT
STA. 133+49'WB', 51' LT
STA. 133+69'WB', 51' LT
STA. 133+80'WB', 51' LT
STA. 133+90'WB', 51' LT
STA. 133+90'WB', 45' LT
STA. 133+49'WB', 45' LT
STA. 133+57'WB', 51' LT
STA. 133+56'WB', 46' LT

MATCH LINE STA. 132+00'WB'

STA. 132+90'WB', 32' LT
STA. 132+57'WB', 24' LT
STA. 132+90'WB', 22' LT
STA. 132+90'WB', 11' LT
STA. 132+90'WB', 0'
STA. 132+99'WB', 0' RT
STA. 132+42'WB', 24' LT
STA. 132+87'WB', 8' RT
STA. 133+00'WB', 8' RT
STA. 132+91'WB', 8' RT
STA. 132+63'WB', 14' RT
STA. 132+87'WB', 19' RT
STA. 133+00'WB', 41' RT
STA. 133+00'WB', 46' RT
STA. 132+87'WB', 30' RT
STA. 132+87'WB', 41' RT
STA. 132+87'WB', 46' RT
STA. 132+91'WB', 46' RT

13+00'A'

14+00'A'

55+00'IE'

54+00'IE'

ICE AGE TRAIL ENTRANCE

STA. 134+24'WB', 27' LT
STA. 134+30'WB', 27' LT
STA. 134+34'WB', 27' LT
STA. 134+34'WB', 22' LT
STA. 134+34'WB', 11' LT
STA. 134+34'WB', 0'
STA. 134+34'WB', 11' RT
STA. 134+30'WB', 11' RT
STA. 134+24'WB', 11' RT
STA. 134+30'WB', 19' RT
STA. 134+24'WB', 19' RT
STA. 134+24'WB', 41' RT
STA. 134+24'WB', 46' RT
STA. 134+78'WB', 43' RT
STA. 134+63'WB', 43' RT
STA. 134+30'WB', 30' RT
STA. 134+30'WB', 41' RT
STA. 134+30'WB', 46' RT

CTH PD WB

CTH PD EB

134+00'WB'

135+00'WB'

136+00'WB'

137+00'WB'

134+00'EB'

135+00'EB'

136+00'EB'

137+00'EB'

STA. 135+34'WB', 6' RT
STA. 134+57'WB', 6' RT
STA. 136+09'WB', 6' RT
STA. 136+21'WB', 0'

STA. 137+28'WB', 24' LT
STA. 137+12'WB', 24' LT

MATCH LINE STA. 137+50'WB'

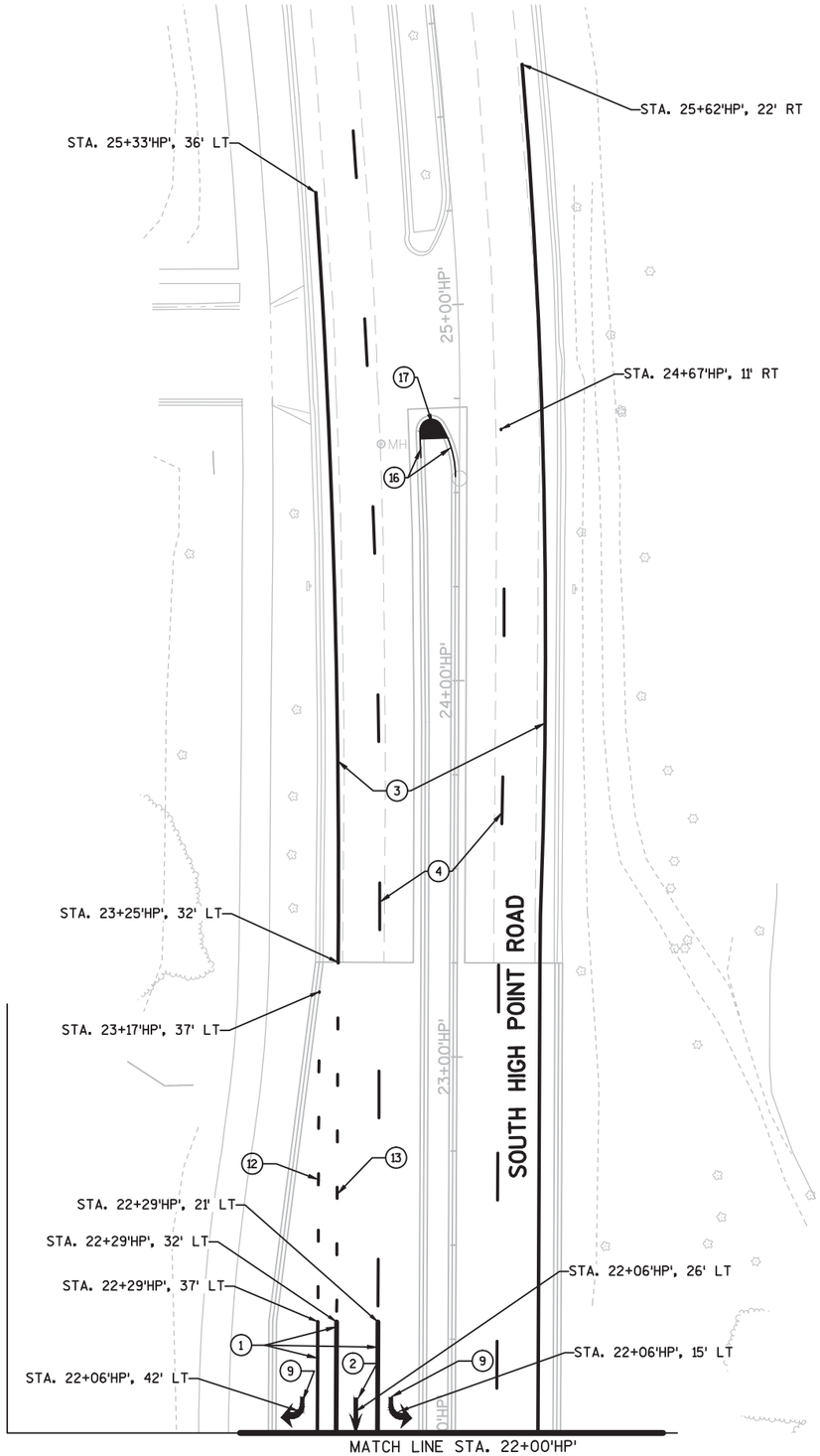
LEGEND

1. PAVEMENT MARKING, EPOXY, 8-INCH, CHANNELIZING WHITE
2. PAVEMENT MARKING, ARROWS EPOXY, TYPE 1, WHITE
3. PAVEMENT MARKING, EPOXY, 6-INCH, WHITE
4. PAVEMENT MARKING, EPOXY, 4-INCH, SKIP WHITE (12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING, EPOXY, CROSSWALK, 6-INCH, WHITE
6. PAVEMENT MARKING, EPOXY, CROSSWALK, 12-INCH, WHITE
7. PAVEMENT MARKING, EPOXY, STOP LINE, 24-INCH, WHITE
8. PAVEMENT MARKING, WORDS EPOXY, WHITE
9. PAVEMENT MARKING, ARROWS EPOXY, TYPE 2, WHITE
10. PAVEMENT MARKING, SYMBOLS EPOXY, BIKE LANE, WHITE
11. PAVEMENT MARKING, ARROWS EPOXY, BIKE LANE, WHITE
12. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, WHITE (3' LINE, 9' GAP)
13. PAVEMENT MARKING, EPOXY, 8-INCH SKIP, WHITE (3' LINE, 9' GAP)
14. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, YELLOW (3' LINE, 9' GAP)
15. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
16. PAVEMENT MARKING, CURB EPOXY, YELLOW
17. PAVEMENT MARKING, ISLAND NOSE EPOXY, YELLOW
18. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
19. PAVEMENT MARKING, EPOXY, DIAGONAL, 12-INCH, YELLOW

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PAVEMENT MARKING: CTH PD	SHEET 221	E

2

N



LEGEND

1. PAVEMENT MARKING, EPOXY, 8-INCH, CHANNELIZING WHITE
2. PAVEMENT MARKING, ARROWS EPOXY, TYPE 1, WHITE
3. PAVEMENT MARKING, EPOXY, 6-INCH, WHITE
4. PAVEMENT MARKING, EPOXY, 4-INCH, SKIP WHITE (12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING, EPOXY, CROSSWALK, 6-INCH, WHITE
6. PAVEMENT MARKING, EPOXY, CROSSWALK, 12-INCH, WHITE
7. PAVEMENT MARKING, EPOXY, STOP LINE, 24-INCH, WHITE
8. PAVEMENT MARKING, WORDS EPOXY, WHITE
9. PAVEMENT MARKING, ARROWS EPOXY, TYPE 2, WHITE
10. PAVEMENT MARKING, SYMBOLS EPOXY, BIKE LANE, WHITE
11. PAVEMENT MARKING, ARROWS EPOXY, BIKE LANE, WHITE
12. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, WHITE (3' LINE, 9' GAP)
13. PAVEMENT MARKING, EPOXY, 8-INCH SKIP, WHITE (3' LINE, 9' GAP)
14. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, YELLOW (3' LINE, 9' GAP)
15. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
16. PAVEMENT MARKING, CURB EPOXY, YELLOW
17. PAVEMENT MARKING, ISLAND NOSE EPOXY, YELLOW
18. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
19. PAVEMENT MARKING, EPOXY, DIAGONAL, 12-INCH, YELLOW

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PAVEMENT MARKING: CTH PD	SHEET 222	E

2

2

LEGEND

1. PAVEMENT MARKING, EPOXY, 8-INCH, CHANNELIZING WHITE
2. PAVEMENT MARKING, ARROWS EPOXY, TYPE 1, WHITE
3. PAVEMENT MARKING, EPOXY, 6-INCH, WHITE
4. PAVEMENT MARKING, EPOXY, 4-INCH, SKIP WHITE (12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING, EPOXY, CROSSWALK, 6-INCH, WHITE
6. PAVEMENT MARKING, EPOXY, CROSSWALK, 12-INCH, WHITE
7. PAVEMENT MARKING, EPOXY, STOP LINE, 24-INCH, WHITE
8. PAVEMENT MARKING, WORDS EPOXY, WHITE
9. PAVEMENT MARKING, ARROWS EPOXY, TYPE 2, WHITE
10. PAVEMENT MARKING, SYMBOLS EPOXY, BIKE LANE, WHITE
11. PAVEMENT MARKING, ARROWS EPOXY, BIKE LANE, WHITE
12. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, WHITE (3' LINE, 9' GAP)
13. PAVEMENT MARKING, EPOXY, 8-INCH SKIP, WHITE (3' LINE, 9' GAP)
14. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, YELLOW (3' LINE, 9' GAP)
15. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
16. PAVEMENT MARKING, CURB EPOXY, YELLOW
17. PAVEMENT MARKING, ISLAND NOSE EPOXY, YELLOW
18. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
19. PAVEMENT MARKING, EPOXY, DIAGONAL, 12-INCH, YELLOW

N

STRATON WAY

SNOWY PARKWAY

CTH PD WB

CTH PD EB

MATCH LINE STA. 137+50'WB'

MATCH LINE STA. 143+50'WB'

STA. 137+92'WB', 44' LT
STA. 137+90'WB', 40' LT
STA. 138+09'WB', 44' LT
STA. 137+86'WB', 34' LT
STA. 138+28'WB', 40' LT
STA. 138+32'WB', 34' LT
STA. 138+51'WB', 27' LT
STA. 138+57'WB', 27' LT
STA. 138+57'WB', 22' LT
STA. 138+57'WB', 11' LT
STA. 138+51'WB', 0'
STA. 138+57'WB', 0'
STA. 138+57'WB', 15' RT
STA. 138+51'WB', 15' RT
STA. 139+05'WB', 39' RT
STA. 138+90'WB', 39' RT
STA. 138+57'WB', 26' RT
STA. 138+51'WB', 26' RT
STA. 138+57'WB', 37' RT
STA. 138+57'WB', 42' RT
STA. 138+51'WB', 37' RT
STA. 138+51'WB', 42' RT

STA. 141+82'WB', 24' LT
STA. 141+67'WB', 24' LT
STA. 142+21'WB', 27' LT
STA. 142+15'WB', 27' LT
STA. 142+93'WB', 27' LT
STA. 142+87'WB', 27' LT
STA. 142+15'WB', 22' LT
STA. 142+21'WB', 22' LT
STA. 142+87'WB', 22' LT
STA. 142+93'WB', 22' LT
STA. 143+18'WB', 5' RT
STA. 142+93'WB', 0'
STA. 142+15'WB', 2' RT
STA. 142+21'WB', 4' RT
STA. 142+93'WB', 11' RT
STA. 142+87'WB', 11' RT
STA. 142+15'WB', 20' RT
STA. 142+21'WB', 20' RT
STA. 142+93'WB', 20' RT
STA. 142+87'WB', 20' RT
STA. 142+93'WB', 42' RT
STA. 142+15'WB', 42' RT
STA. 142+93'WB', 47' RT
STA. 142+87'WB', 48' RT
STA. 142+15'WB', 48' RT
STA. 142+21'WB', 50' RT
STA. 142+33'WB', 60' RT
STA. 142+38'WB', 71' RT
STA. 142+71'WB', 60' RT
STA. 142+52'WB', 75' RT
STA. 143+27'WB', 44' RT
STA. 142+67'WB', 71' RT
STA. 142+66'WB', 75' RT
STA. 143+41'WB', 44' RT

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PAVEMENT MARKING: CTH PD	SHEET 223	E

2

LEGEND

1. PAVEMENT MARKING, EPOXY, 8-INCH, CHANNELIZING WHITE
2. PAVEMENT MARKING, ARROWS EPOXY, TYPE 1, WHITE
3. PAVEMENT MARKING, EPOXY, 6-INCH, WHITE
4. PAVEMENT MARKING, EPOXY, 4-INCH, SKIP WHITE (12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING, EPOXY, CROSSWALK, 6-INCH, WHITE
6. PAVEMENT MARKING, EPOXY, CROSSWALK, 12-INCH, WHITE
7. PAVEMENT MARKING, EPOXY, STOP LINE, 24-INCH, WHITE
8. PAVEMENT MARKING, WORDS EPOXY, WHITE
9. PAVEMENT MARKING, ARROWS EPOXY, TYPE 2, WHITE
10. PAVEMENT MARKING, SYMBOLS EPOXY, BIKE LANE, WHITE
11. PAVEMENT MARKING, ARROWS EPOXY, BIKE LANE, WHITE
12. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, WHITE (3' LINE, 9' GAP)
13. PAVEMENT MARKING, EPOXY, 8-INCH SKIP, WHITE (3' LINE, 9' GAP)
14. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, YELLOW (3' LINE, 9' GAP)
15. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
16. PAVEMENT MARKING, CURB EPOXY, YELLOW
17. PAVEMENT MARKING, ISLAND NOSE EPOXY, YELLOW
18. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
19. PAVEMENT MARKING, EPOXY, DIAGONAL, 12-INCH, YELLOW

N

BADGER MILL CREEK

MATCH LINE STA. 143+50'WB'

144+00'WB' 145+00'WB' 146+00'WB' 147+00'WB' 148+00'WB' 149+00'WB'

STA. 144+81'WB', 0' RT

STA. 143+94'WB', 6' RT

STA. 144+70'WB', 6' RT

CTH PD WB

STA. 149+32'WB', 13' RT

144+00'EB' 145+00'EB' 146+00'EB' 147+00'EB' 148+00'EB' 149+00'EB'

CTH PD EB

STA. 149+20'WB', 19' RT

MATCH LINE STA. 149+50'WB'

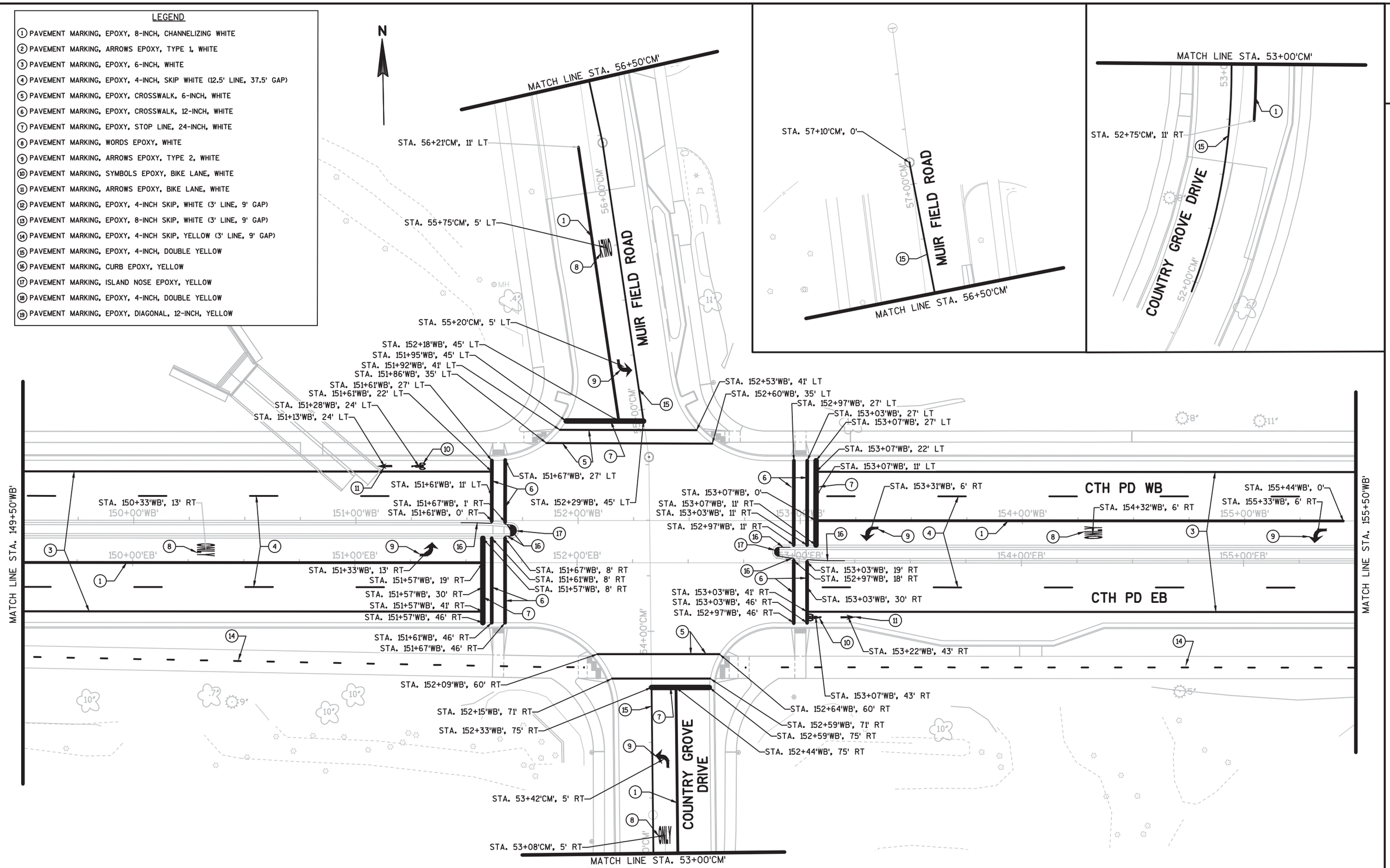
12" 8" 9" 3" 3" 8" 8" 5" 7" 13" 10" 8" 6" 12" 10" 10"

2

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PAVEMENT MARKING: CTH PD	SHEET 224	E

LEGEND

1. PAVEMENT MARKING, EPOXY, 8-INCH, CHANNELIZING WHITE
2. PAVEMENT MARKING, ARROWS EPOXY, TYPE 1, WHITE
3. PAVEMENT MARKING, EPOXY, 6-INCH, WHITE
4. PAVEMENT MARKING, EPOXY, 4-INCH, SKIP WHITE (12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING, EPOXY, CROSSWALK, 6-INCH, WHITE
6. PAVEMENT MARKING, EPOXY, CROSSWALK, 12-INCH, WHITE
7. PAVEMENT MARKING, EPOXY, STOP LINE, 24-INCH, WHITE
8. PAVEMENT MARKING, WORDS EPOXY, WHITE
9. PAVEMENT MARKING, ARROWS EPOXY, TYPE 2, WHITE
10. PAVEMENT MARKING, SYMBOLS EPOXY, BIKE LANE, WHITE
11. PAVEMENT MARKING, ARROWS EPOXY, BIKE LANE, WHITE
12. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, WHITE (3' LINE, 9' GAP)
13. PAVEMENT MARKING, EPOXY, 8-INCH SKIP, WHITE (3' LINE, 9' GAP)
14. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, YELLOW (3' LINE, 9' GAP)
15. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
16. PAVEMENT MARKING, CURB EPOXY, YELLOW
17. PAVEMENT MARKING, ISLAND NOSE EPOXY, YELLOW
18. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
19. PAVEMENT MARKING, EPOXY, DIAGONAL, 12-INCH, YELLOW

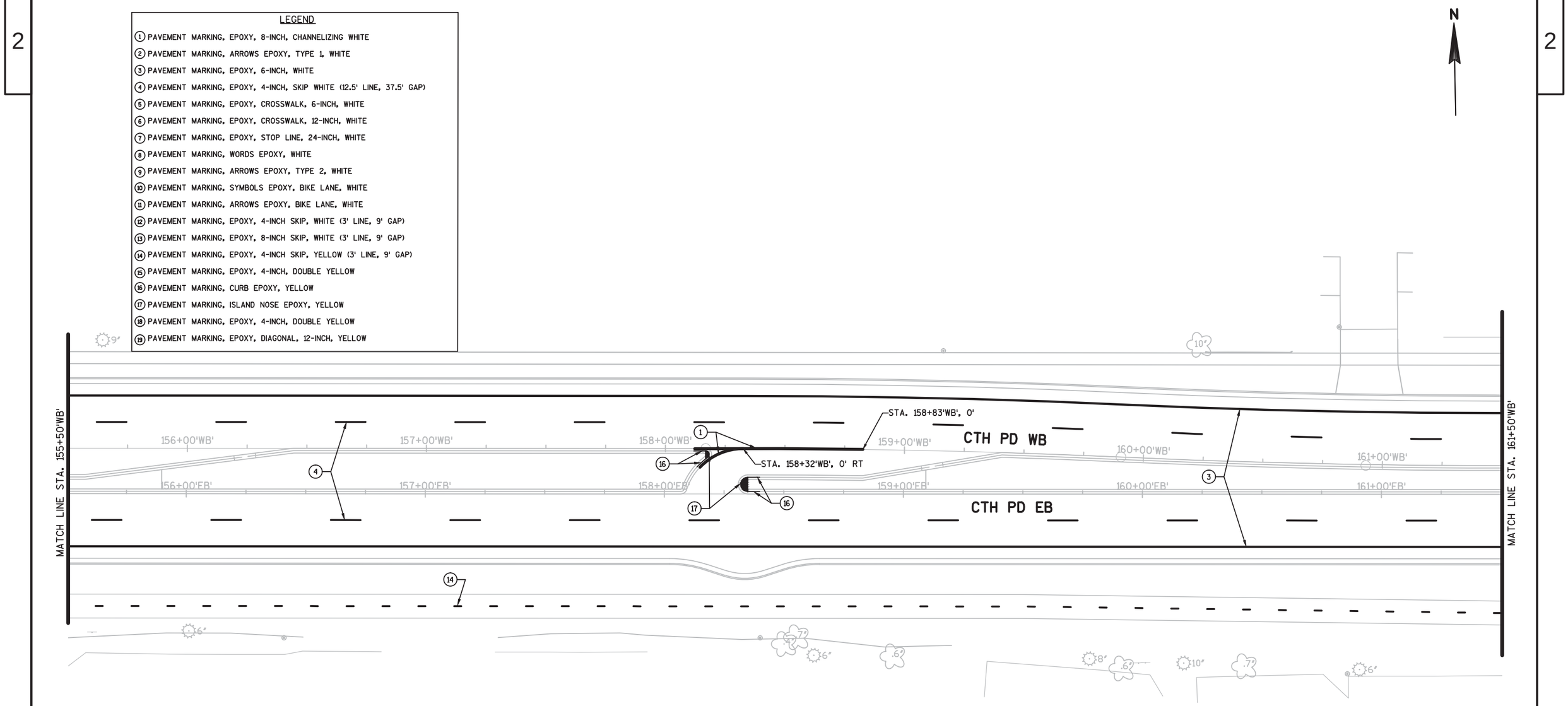


PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PAVEMENT MARKING: CTH PD	SHEET 225	E

2

LEGEND

1. PAVEMENT MARKING, EPOXY, 8-INCH, CHANNELIZING WHITE
2. PAVEMENT MARKING, ARROWS EPOXY, TYPE 1, WHITE
3. PAVEMENT MARKING, EPOXY, 6-INCH, WHITE
4. PAVEMENT MARKING, EPOXY, 4-INCH, SKIP WHITE (12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING, EPOXY, CROSSWALK, 6-INCH, WHITE
6. PAVEMENT MARKING, EPOXY, CROSSWALK, 12-INCH, WHITE
7. PAVEMENT MARKING, EPOXY, STOP LINE, 24-INCH, WHITE
8. PAVEMENT MARKING, WORDS EPOXY, WHITE
9. PAVEMENT MARKING, ARROWS EPOXY, TYPE 2, WHITE
10. PAVEMENT MARKING, SYMBOLS EPOXY, BIKE LANE, WHITE
11. PAVEMENT MARKING, ARROWS EPOXY, BIKE LANE, WHITE
12. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, WHITE (3' LINE, 9' GAP)
13. PAVEMENT MARKING, EPOXY, 8-INCH SKIP, WHITE (3' LINE, 9' GAP)
14. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, YELLOW (3' LINE, 9' GAP)
15. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
16. PAVEMENT MARKING, CURB EPOXY, YELLOW
17. PAVEMENT MARKING, ISLAND NOSE EPOXY, YELLOW
18. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
19. PAVEMENT MARKING, EPOXY, DIAGONAL, 12-INCH, YELLOW



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PAVEMENT MARKING: CTH PD	SHEET 226	E

2

2

LEGEND

1. PAVEMENT MARKING, EPOXY, 8-INCH, CHANNELIZING WHITE
2. PAVEMENT MARKING, ARROWS EPOXY, TYPE 1, WHITE
3. PAVEMENT MARKING, EPOXY, 6-INCH, WHITE
4. PAVEMENT MARKING, EPOXY, 4-INCH, SKIP WHITE (12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING, EPOXY, CROSSWALK, 6-INCH, WHITE
6. PAVEMENT MARKING, EPOXY, CROSSWALK, 12-INCH, WHITE
7. PAVEMENT MARKING, EPOXY, STOP LINE, 24-INCH, WHITE
8. PAVEMENT MARKING, WORDS EPOXY, WHITE
9. PAVEMENT MARKING, ARROWS EPOXY, TYPE 2, WHITE
10. PAVEMENT MARKING, SYMBOLS EPOXY, BIKE LANE, WHITE
11. PAVEMENT MARKING, ARROWS EPOXY, BIKE LANE, WHITE
12. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, WHITE (3' LINE, 9' GAP)
13. PAVEMENT MARKING, EPOXY, 8-INCH SKIP, WHITE (3' LINE, 9' GAP)
14. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, YELLOW (3' LINE, 9' GAP)
15. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
16. PAVEMENT MARKING, CURB EPOXY, YELLOW
17. PAVEMENT MARKING, ISLAND NOSE EPOXY, YELLOW
18. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
19. PAVEMENT MARKING, EPOXY, DIAGONAL, 12-INCH, YELLOW

N

MATCH LINE STA. 161+50'WB'

MATCH LINE STA. 167+50'WB'

CTH PD WB

CTH PD EB

162+00'WB' 163+00'WB' 164+00'WB' 165+00'WB' 166+00'WB' 167+00'WB'

162+00'EB' 163+00'EB' 164+00'EB' 165+00'EB' 166+00'EB' 167+00'EB'

STA. 166+29'WB', 20' RT

STA. 166+35'WB', 14' RT

STA. 167+13'WB', 17' RT

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PAVEMENT MARKING: CTH PD	SHEET 227	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 021211

PLOT DATE : 10/17/2016 2:05 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

1. PAVEMENT MARKING, EPOXY, 8-INCH, CHANNELIZING WHITE
2. PAVEMENT MARKING, ARROWS EPOXY, TYPE 1, WHITE
3. PAVEMENT MARKING, EPOXY, 6-INCH, WHITE
4. PAVEMENT MARKING, EPOXY, 4-INCH, SKIP WHITE (12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING, EPOXY, CROSSWALK, 6-INCH, WHITE
6. PAVEMENT MARKING, EPOXY, CROSSWALK, 12-INCH, WHITE
7. PAVEMENT MARKING, EPOXY, STOP LINE, 24-INCH, WHITE
8. PAVEMENT MARKING, WORDS EPOXY, WHITE
9. PAVEMENT MARKING, ARROWS EPOXY, TYPE 2, WHITE
10. PAVEMENT MARKING, SYMBOLS EPOXY, BIKE LANE, WHITE
11. PAVEMENT MARKING, ARROWS EPOXY, BIKE LANE, WHITE
12. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, WHITE (3' LINE, 9' GAP)
13. PAVEMENT MARKING, EPOXY, 8-INCH SKIP, WHITE (3' LINE, 9' GAP)
14. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, YELLOW (3' LINE, 9' GAP)
15. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
16. PAVEMENT MARKING, CURB EPOXY, YELLOW
17. PAVEMENT MARKING, ISLAND NOSE EPOXY, YELLOW
18. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
19. PAVEMENT MARKING, EPOXY, DIAGONAL, 12-INCH, YELLOW

N

SIVLERTON TRAIL

CTH PD WB

CTH PD EB

TANGLEWOOD DRIVE

MATCH LINE STA. 167+50'WB'

MATCH LINE STA. 173+50'WB'

MATCH LINE

STA. 167+69'WB', 24' LT
STA. 167+84'WB', 24' LT
STA. 168+17'WB', 27' LT
STA. 168+23'WB', 27' LT
STA. 168+69'WB', 44' LT
STA. 168+90'WB', 40' LT
STA. 168+96'WB', 34' LT
STA. 168+51'WB', 45' LT
STA. 168+48'WB', 41' LT
STA. 168+43'WB', 35' LT
STA. 168+17'WB', 22' LT
STA. 168+17'WB', 11' LT
STA. 168+23'WB', 1' RT
STA. 168+17'WB', 0' RT
STA. 168+23'WB', 12' RT
STA. 168+17'WB', 12' RT
STA. 168+17'WB', 23' RT
STA. 167+93'WB', 18' RT
STA. 168+17'WB', 34' RT
STA. 168+17'WB', 45' RT
STA. 168+17'WB', 50' RT
STA. 168+23'WB', 52' RT
STA. 168+87'WB', 61' RT
STA. 168+81'WB', 72' RT
STA. 168+80'WB', 76' RT
STA. 168+64'WB', 76' RT
STA. 168+38'WB', 61' RT
STA. 168+45'WB', 72' RT
STA. 169+18'WB', 27' LT
STA. 169+24'WB', 27' LT
STA. 169+24'WB', 22' LT
STA. 169+24'WB', 11' LT
STA. 169+24'WB', 0'
STA. 169+49'WB', 5' RT
STA. 169+24'WB', 11' RT
STA. 169+18'WB', 11' RT
STA. 169+24'WB', 23' RT
STA. 169+18'WB', 22' RT
STA. 169+24'WB', 50' RT
STA. 169+18'WB', 50' RT
STA. 169+24'WB', 34' RT
STA. 169+24'WB', 45' RT
STA. 169+57'WB', 47' RT
STA. 169+73'WB', 47' RT
STA. 170+24'WB', 5' RT
STA. 170+99'WB', 5' RT
STA. 171+12'WB', 0'
STA. 173+46'WB', 25' LT

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PAVEMENT MARKING: CTH PD	SHEET 228	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 021212
PLOT DATE : 10/17/2016 2:06 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

1. PAVEMENT MARKING, EPOXY, 8-INCH, CHANNELIZING WHITE
2. PAVEMENT MARKING, ARROWS EPOXY, TYPE 1, WHITE
3. PAVEMENT MARKING, EPOXY, 6-INCH, WHITE
4. PAVEMENT MARKING, EPOXY, 4-INCH, SKIP WHITE (12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING, EPOXY, CROSSWALK, 6-INCH, WHITE
6. PAVEMENT MARKING, EPOXY, CROSSWALK, 12-INCH, WHITE
7. PAVEMENT MARKING, EPOXY, STOP LINE, 24-INCH, WHITE
8. PAVEMENT MARKING, WORDS EPOXY, WHITE
9. PAVEMENT MARKING, ARROWS EPOXY, TYPE 2, WHITE
10. PAVEMENT MARKING, SYMBOLS EPOXY, BIKE LANE, WHITE
11. PAVEMENT MARKING, ARROWS EPOXY, BIKE LANE, WHITE
12. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, WHITE (3' LINE, 9' GAP)
13. PAVEMENT MARKING, EPOXY, 8-INCH SKIP, WHITE (3' LINE, 9' GAP)
14. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, YELLOW (3' LINE, 9' GAP)
15. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
16. PAVEMENT MARKING, CURB EPOXY, YELLOW
17. PAVEMENT MARKING, ISLAND NOSE EPOXY, YELLOW
18. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
19. PAVEMENT MARKING, EPOXY, DIAGONAL, 12-INCH, YELLOW

N

MATCH LINE STA. 173+50'WB'

MATCH LINE STA. 179+50'WB'

CTH PD WB

CTH PD EB

STONECREEK DRIVE

173+00'WB' 174+00'WB' 175+00'WB' 176+00'WB' 177+00'WB' 178+00'WB' 179+00'WB'

173+00'EB' 174+00'EB' 175+00'EB' 176+00'EB' 177+00'EB' 178+00'EB' 179+00'EB'

92+00'SD' 93+00'SD'

STA. 173+61'WB', 24' LT
STA. 173+94'WB', 27' LT
STA. 173+93'WB', 22' LT
STA. 174+00'WB', 27' LT
STA. 174+86'WB', 27' LT
STA. 174+92'WB', 27' LT
STA. 174+86'WB', 22' LT
STA. 174+92'WB', 22' LT
STA. 173+99'WB', 22' LT
STA. 173+93'WB', 0' RT
STA. 174+92'WB', 0'
STA. 174+92'WB', 11' RT
STA. 174+86'WB', 11' RT
STA. 173+99'WB', 1' RT
STA. 173+99'WB', 19' RT
STA. 175+17'WB', 6' RT
STA. 175+93'WB', 6' RT
STA. 176+69'WB', 6' RT
STA. 176+79'WB', 0'
STA. 174+92'WB', 20' RT
STA. 174+86'WB', 20' RT
STA. 174+92'WB', 42' RT
STA. 175+25'WB', 44' RT
STA. 175+40'WB', 44' RT
STA. 173+93'WB', 19' RT
STA. 173+93'WB', 41' RT
STA. 173+99'WB', 46' RT
STA. 174+92'WB', 47' RT
STA. 174+86'WB', 47' RT
STA. 174+64'WB', 61' RT
STA. 174+60'WB', 72' RT
STA. 174+59'WB', 76' RT
STA. 174+43'WB', 76' RT
STA. 174+23'WB', 61' RT
STA. 174+27'WB', 72' RT
STA. 173+93'WB', 46' RT

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PAVEMENT MARKING: CTH PD	SHEET 229	E

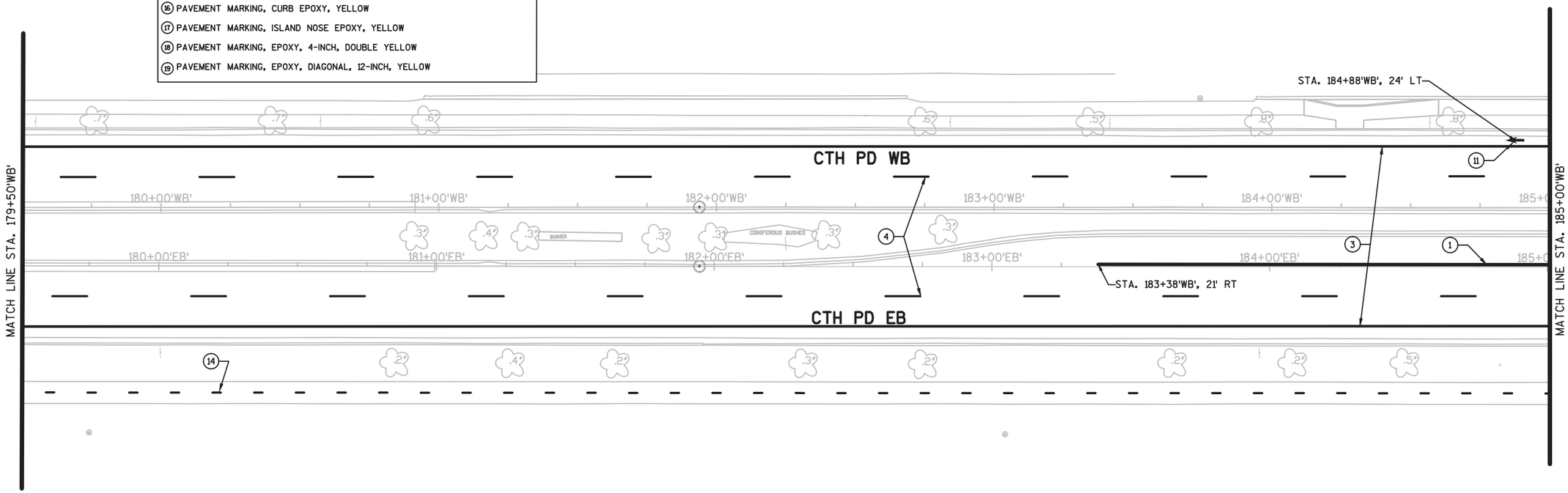
2

LEGEND

1. PAVEMENT MARKING, EPOXY, 8-INCH, CHANNELIZING WHITE
2. PAVEMENT MARKING, ARROWS EPOXY, TYPE 1, WHITE
3. PAVEMENT MARKING, EPOXY, 6-INCH, WHITE
4. PAVEMENT MARKING, EPOXY, 4-INCH, SKIP WHITE (12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING, EPOXY, CROSSWALK, 6-INCH, WHITE
6. PAVEMENT MARKING, EPOXY, CROSSWALK, 12-INCH, WHITE
7. PAVEMENT MARKING, EPOXY, STOP LINE, 24-INCH, WHITE
8. PAVEMENT MARKING, WORDS EPOXY, WHITE
9. PAVEMENT MARKING, ARROWS EPOXY, TYPE 2, WHITE
10. PAVEMENT MARKING, SYMBOLS EPOXY, BIKE LANE, WHITE
11. PAVEMENT MARKING, ARROWS EPOXY, BIKE LANE, WHITE
12. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, WHITE (3' LINE, 9' GAP)
13. PAVEMENT MARKING, EPOXY, 8-INCH SKIP, WHITE (3' LINE, 9' GAP)
14. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, YELLOW (3' LINE, 9' GAP)
15. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
16. PAVEMENT MARKING, CURB EPOXY, YELLOW
17. PAVEMENT MARKING, ISLAND NOSE EPOXY, YELLOW
18. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
19. PAVEMENT MARKING, EPOXY, DIAGONAL, 12-INCH, YELLOW

N

2

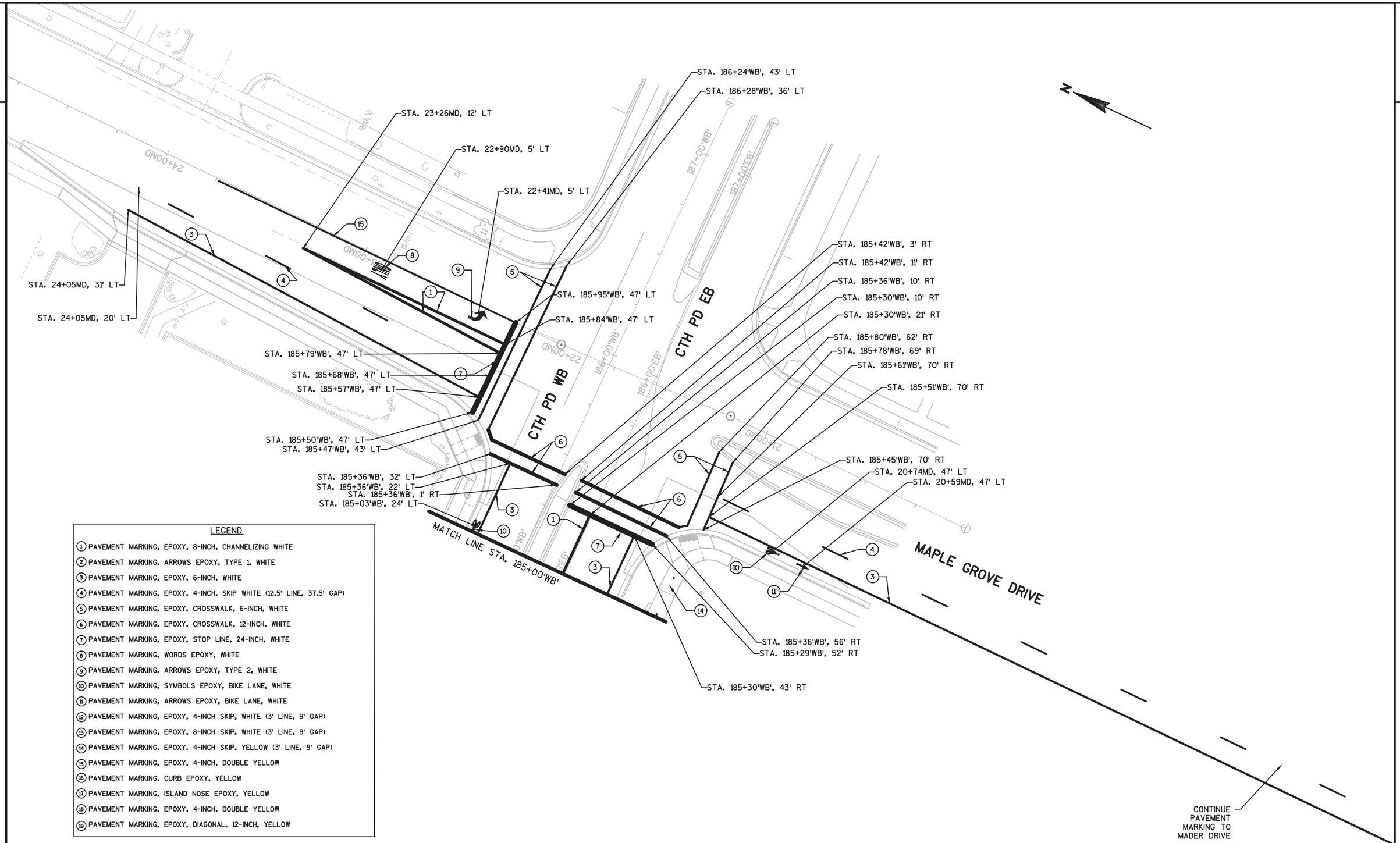


PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PAVEMENT MARKING: CTH PD	SHEET 230	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\024501_PM.DWG
LAYOUT NAME - 021214

PLOT DATE : 10/17/2016 2:06 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



LEGEND

1. PAVEMENT MARKING, EPOXY, 8-INCH, CHANNELIZING WHITE
2. PAVEMENT MARKING, ARROWS EPOXY, TYPE 1, WHITE
3. PAVEMENT MARKING, EPOXY, 6-INCH, WHITE
4. PAVEMENT MARKING, EPOXY, 4-INCH, SKIP WHITE (12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING, EPOXY, CROSSWALK, 6-INCH, WHITE
6. PAVEMENT MARKING, EPOXY, CROSSWALK, 12-INCH, WHITE
7. PAVEMENT MARKING, EPOXY, STOP LINE, 24-INCH, WHITE
8. PAVEMENT MARKING, WORDS EPOXY, WHITE
9. PAVEMENT MARKING, ARROWS EPOXY, TYPE 2, WHITE
10. PAVEMENT MARKING, SYMBOLS EPOXY, BIKE LANE, WHITE
11. PAVEMENT MARKING, ARROWS EPOXY, BIKE LANE, WHITE
12. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, WHITE (3' LINE, 9' GAP)
13. PAVEMENT MARKING, EPOXY, 8-INCH SKIP, WHITE (3' LINE, 9' GAP)
14. PAVEMENT MARKING, EPOXY, 4-INCH SKIP, YELLOW (3' LINE, 9' GAP)
15. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
16. PAVEMENT MARKING, CURB EPOXY, YELLOW
17. PAVEMENT MARKING, ISLAND NOSE EPOXY, YELLOW
18. PAVEMENT MARKING, EPOXY, 4-INCH, DOUBLE YELLOW
19. PAVEMENT MARKING, EPOXY, DIAGONAL, 12-INCH, YELLOW

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PAVEMENT MARKING: CTH PD	SHEET 231	E

2

GENERAL NOTES FOR TRAFFIC CONTROL

1) THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

2) A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE WORK AREAS IF WARRANTED BY CONDITIONS OR AS DIRECTED BY THE ENGINEER.

3) ALL SIGNS ARE 48" X 48" UNLESS NOTED.

4) "WO" IS THE "W" EXCEPT THE BACKGROUND IS ORANGE.

5) FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A TYPE C STEADY BURN WARNING LIGHT.

6) ALL TYPE II AND III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.

7) DIMENSIONS TO CONCRETE BARRIER TEMPORARY PRECAST ARE TO THE FACE OF BARRIER AND ADJACENT TO TRAFFIC.

8) WHEN A SEGMENT OF THE PROJECT IS NOT SHOWN ON THE STAGING PLANS, USE THE SAME TRAFFIC CONTROL AS THE PREVIOUS STAGE FOR THAT SEGMENT.

9) EXISTING AND ADVANCE WARNING TRAFFIC SIGNS MAY REQUIRE RELOCATION DURING CONSTRUCTION STAGING, INCIDENTAL TO THE CONTRACT.

10) MAINTAIN LOCAL ACCESS AT ALL TIMES UNLESS OTHERWISE NOTED IN THE TRAFFIC CONTROL PLANS.

TEMPORARY PAVEMENT MARKING LEGEND

T4W	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH, WHITE
T4Y	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH, YELLOW
T4DY	TEMPORARY PAVEMENT MARKING PAINT, 4-INCH, DOUBLE YELLOW
TR6	TEMPORARY PAVEMENT MARKING, CROSSWALK PAINT, 6-INCH, WHITE
T8W	TEMPORARY PAVEMENT MARKING PAINT, 8-INCH, WHITE
T18W	TEMPORARY PAVEMENT MARKING PAINT, 18-INCH, WHITE
TR4W	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, WHITE
TR4Y	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 4-INCH, YELLOW
TR8W	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE, 8-INCH, WHITE
	TEMPORARY PAVEMENT MARKING, ARROWS PAINT
ONLY	TEMPORARY PAVEMENT MARKING, WORDS PAINT

TRAFFIC CONTROL LEGEND

- TYPE II BARRICADE WITH ATTACHED SIGN AND TYPE A LIGHTS
- TYPE III BARRICADE WITH TYPE A LIGHTS
- TYPE III BARRICADE WTH ATTACHED SIGN AND TYPE A LIGHTS
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON EXISTING SUPPORT
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT
- PCMS — TRAFFIC CONTROL SIGNS PCMS
- CC — CRASH CUSHION TEMPORARY
- TRAFFIC CONTROL FIXED MESSAGE SIGN
- CONCRETE BARRIER TEMPORARY PRECAST

- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT CONSTRUCTED IN STAGE
- WORK AREA
- DIRECTION OF TRAFFIC
- SIGNALIZED INTERSECTION (TEMPORARY)
- TEMPORARY PEDESTRIAN SURFACE
- PEDESTRIAN SAFETY FENCE
- TEMPORARY SHORING
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)

2

ROAD WORK ON EAST PD EXPECT DELAYS
BEGINS XX/XX

TO BE PLACED PRIOR TO THE CONSTRUCTION OF CTH PD FOR THE DURATION OF THE CONSTRUCTION (SEE CONSTRUCTION DETAIL)

RAYMOND ROAD

CTH M

PCMS

ROAD WORK 500 FT W20-1-D

ROAD WORK AHEAD W20-1-A

ACCESS TO LOCAL BUSINESSES

SPEED LIMIT 35 W3-5 36"X36"

END ROAD WORK G20-2A 48"X24"

MERITER WAY

CTH PD

STRATTON WAY

*SEE TRAFFIC CONTROL PLAN SHEETS FOR ADVANCED WARNING SIGNS ON SOUTH HIGH POINT ROAD

SOUTH HIGH POINT ROAD

ICE AGE JUNCTION PATH

ICE AGE JUNCTION PATH ENTRANCE

SNOWY PARKWAY

MUIR FIELD ROAD

COUNTRY GROVE DRIVE

N

MUIR FIELD DRIVE

SILVERTON TRAIL

TIMBERWOOD DRIVE

TANGLEWOOD DRIVE

STONECREEK DRIVE

MAPLE GROVE DRIVE

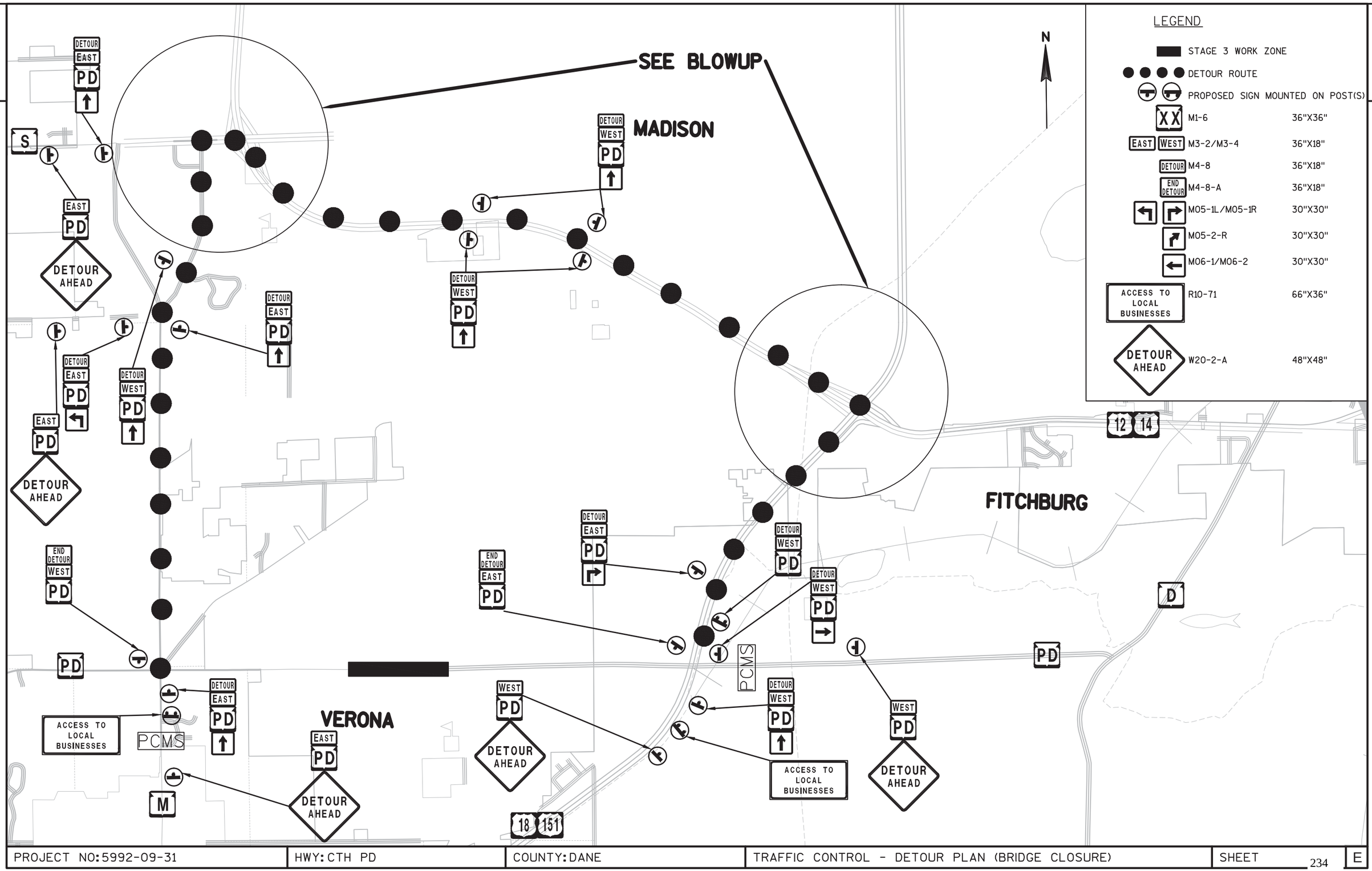
MAPLE VALLEY DRIVE

POST

LEGEND

(A) SEE S.D.D. TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC (TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL)

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL - ADVANCED WARNING DETAIL	SHEET 233	E

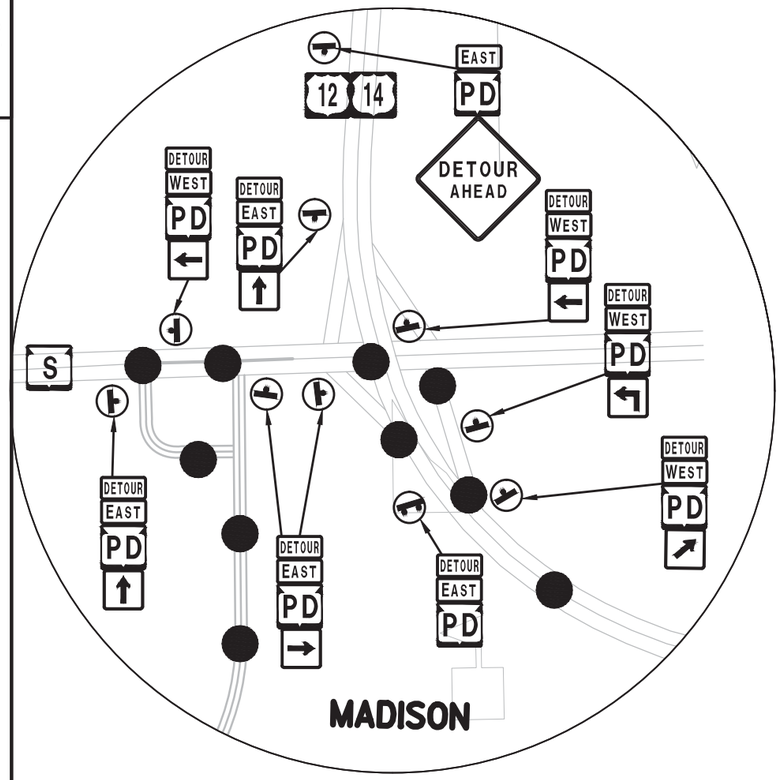


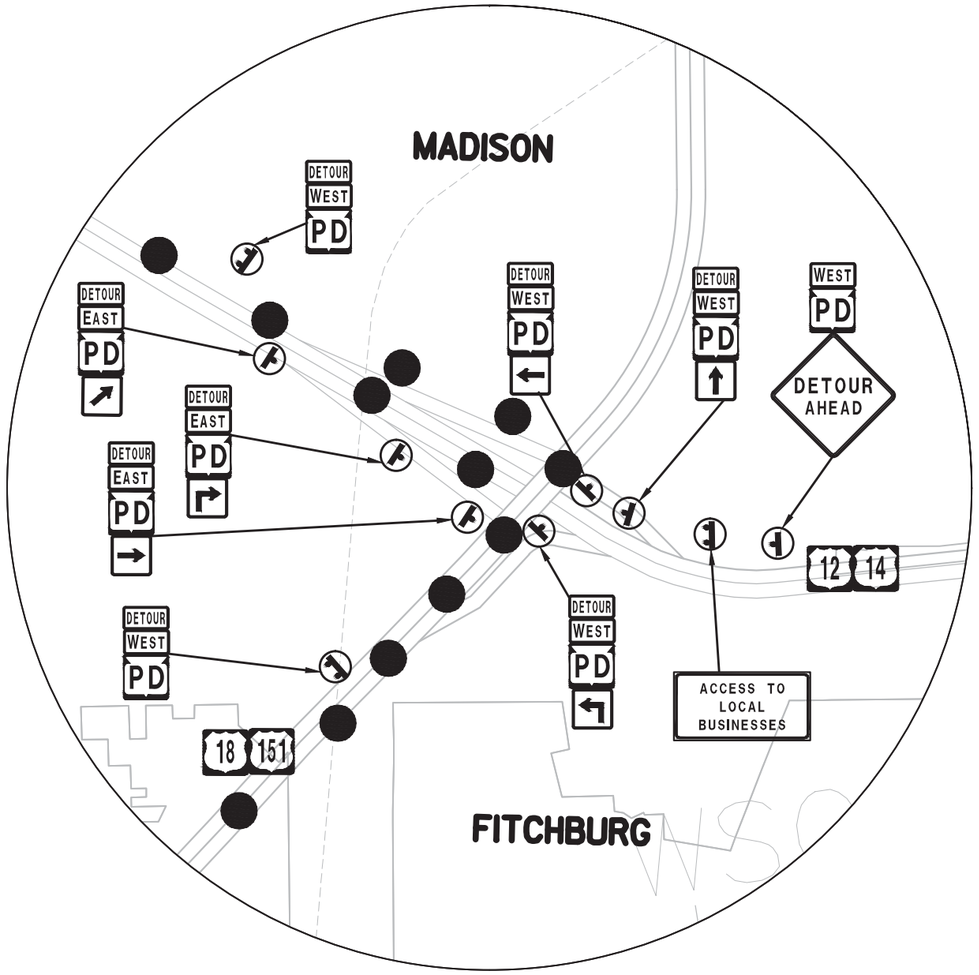
PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL - DETOUR PLAN (BRIDGE CLOSURE)	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025001_DT - BRIDGE CLOSURE.DWG
LAYOUT NAME - SHEET - (1)

PLOT DATE : 10/17/2016 3:40 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:0.5 MI

WISDOT/CADDS SHEET 42





N

LEGEND

	STAGE 3 WORK ZONE	
	DETOUR ROUTE	
	PROPOSED SIGN MOUNTED ON POST(S)	
XX	M1-6	36"X36"
EAST WEST	M3-2/M3-4	36"X18"
DETOUR	M4-8	36"X18"
END DETOUR	M4-8-A	36"X18"
	M05-1L/M05-1R	30"X30"
	M05-2-R	30"X30"
	M06-1/M06-2	30"X30"
ACCESS TO LOCAL BUSINESSES	R10-71	66"X36"
DETOUR AHEAD	W20-2-A	48"X48"

2

N

DETOUR PLAN
ICE AGE NATIONAL SCENIC TRAIL
ICE AGE JUNCTION PATH

LEGEND

TRAIL DETOUR (ICE AGE NATIONAL SCENIC TRAIL)

PATH DETOUR (ICE AGE JUNCTION PATH)

TYPE II BARRICADE WITH ATTACHED SIGN

STRATTON WAY

STRATTON WAY

ICE AGE NATIONAL SCENIC TRAIL

SNOWYCAP TRAIL

WINTER PARK PLACE

SOUTH HIGH POINT ROAD

ICE AGE JUNCTION PATH

CTH PD

CTH PD

ICE AGE JUNCTION PATH

ICE AGE JUNCTION PATH

ICE AGE NATIONAL SCENIC TRAIL CLOSED

PATH CLOSED AHEAD W20-3-A (MOD)

PATH CLOSED AHEAD W20-3-A (MOD)

ICE AGE NATIONAL SCENIC TRAIL / ICE AGE JUNCTION PATH / END DETOUR — M4-8A 24"X18"

ICE AGE NATIONAL SCENIC TRAIL / ICE AGE JUNCTION PATH / DETOUR — M4-9BL 30"X24"

ICE AGE NATIONAL SCENIC TRAIL / DETOUR — M4-9BR 30"X24"

ICE AGE NATIONAL SCENIC TRAIL / DETOUR — M4-9BL 30"X24"

ICE AGE NATIONAL SCENIC TRAIL / DETOUR — M4-9BR 30"X24"

ICE AGE JUNCTION PATH / END DETOUR — M4-8A 24"X18"

ICE AGE NATIONAL SCENIC TRAIL / ICE AGE JUNCTION PATH / DETOUR — M4-9BL 30"X24"

ICE AGE NATIONAL SCENIC TRAIL / DETOUR — M4-9BL 30"X24"

ICE AGE NATIONAL SCENIC TRAIL / DETOUR — M4-9BR 30"X24"

ICE AGE NATIONAL SCENIC TRAIL / END DETOUR — M4-8A 24"X18"

ICE AGE NATIONAL SCENIC TRAIL / DETOUR — M4-9BR 30"X24"

ICE AGE NATIONAL SCENIC TRAIL / DETOUR — M4-9BL 30"X24"

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL - DETOUR PLAN	SHEET 236	E

CTH PD-STAGE 1

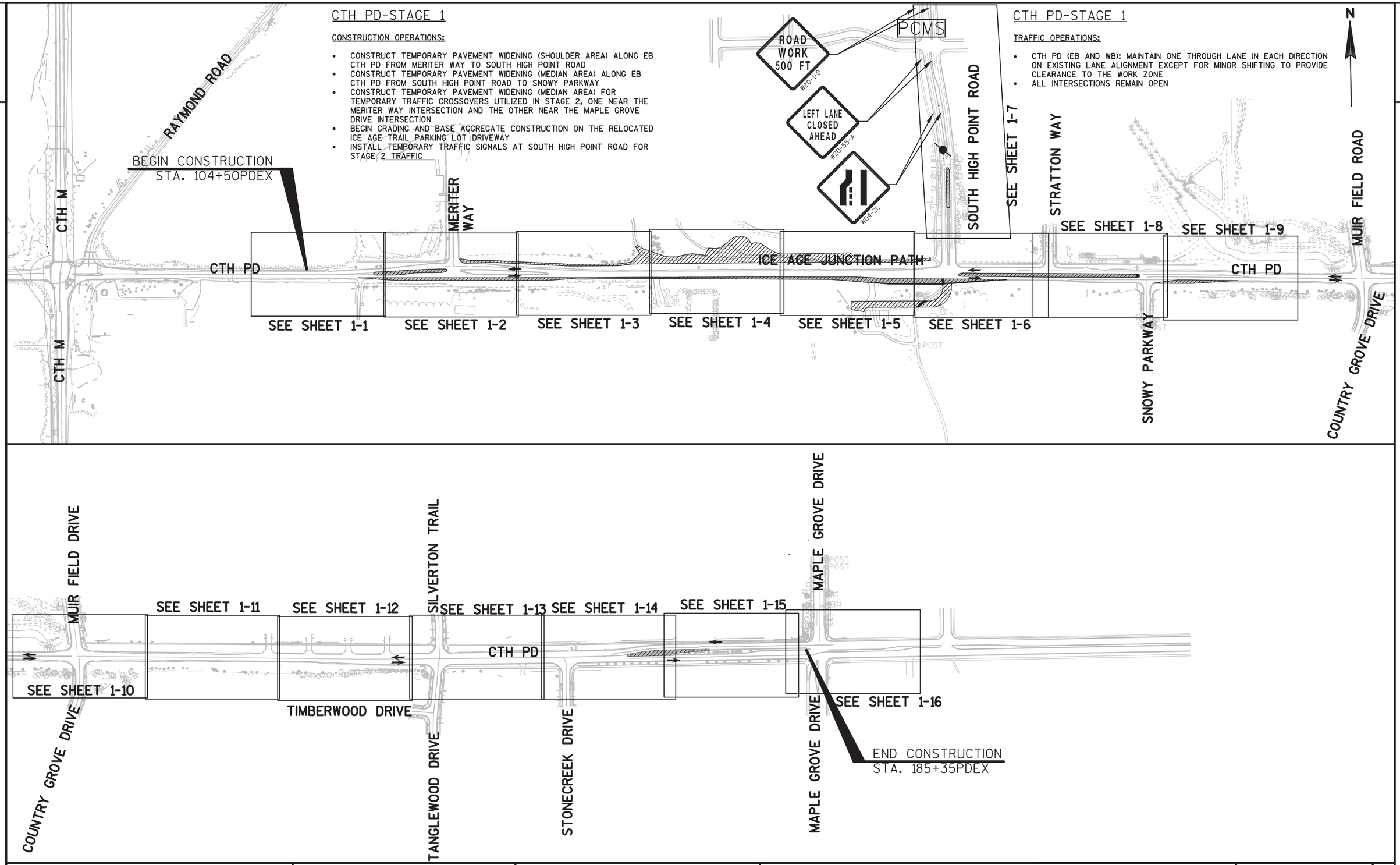
CONSTRUCTION OPERATIONS:

- CONSTRUCT TEMPORARY PAVEMENT WIDENING (SHOULDER AREA) ALONG EB CTH PD FROM MERITER WAY TO SOUTH HIGH POINT ROAD
- CONSTRUCT TEMPORARY PAVEMENT WIDENING (MEDIAN AREA) ALONG EB CTH PD FROM SOUTH HIGH POINT ROAD TO SNOWY PARKWAY
- CONSTRUCT TEMPORARY PAVEMENT WIDENING (MEDIAN AREA) FOR TEMPORARY TRAFFIC CROSSOVERS UTILIZED IN STAGE 2, ONE NEAR THE MERITER WAY INTERSECTION AND THE OTHER NEAR THE MAPLE GROVE DRIVE INTERSECTION
- BEGIN GRADING AND BASE AGGREGATE CONSTRUCTION ON THE RELOCATED ICE AGE TRAIL PARKING LOT DRIVEWAY
- INSTALL TEMPORARY TRAFFIC SIGNALS AT SOUTH HIGH POINT ROAD FOR STAGE 2 TRAFFIC

CTH PD-STAGE 1

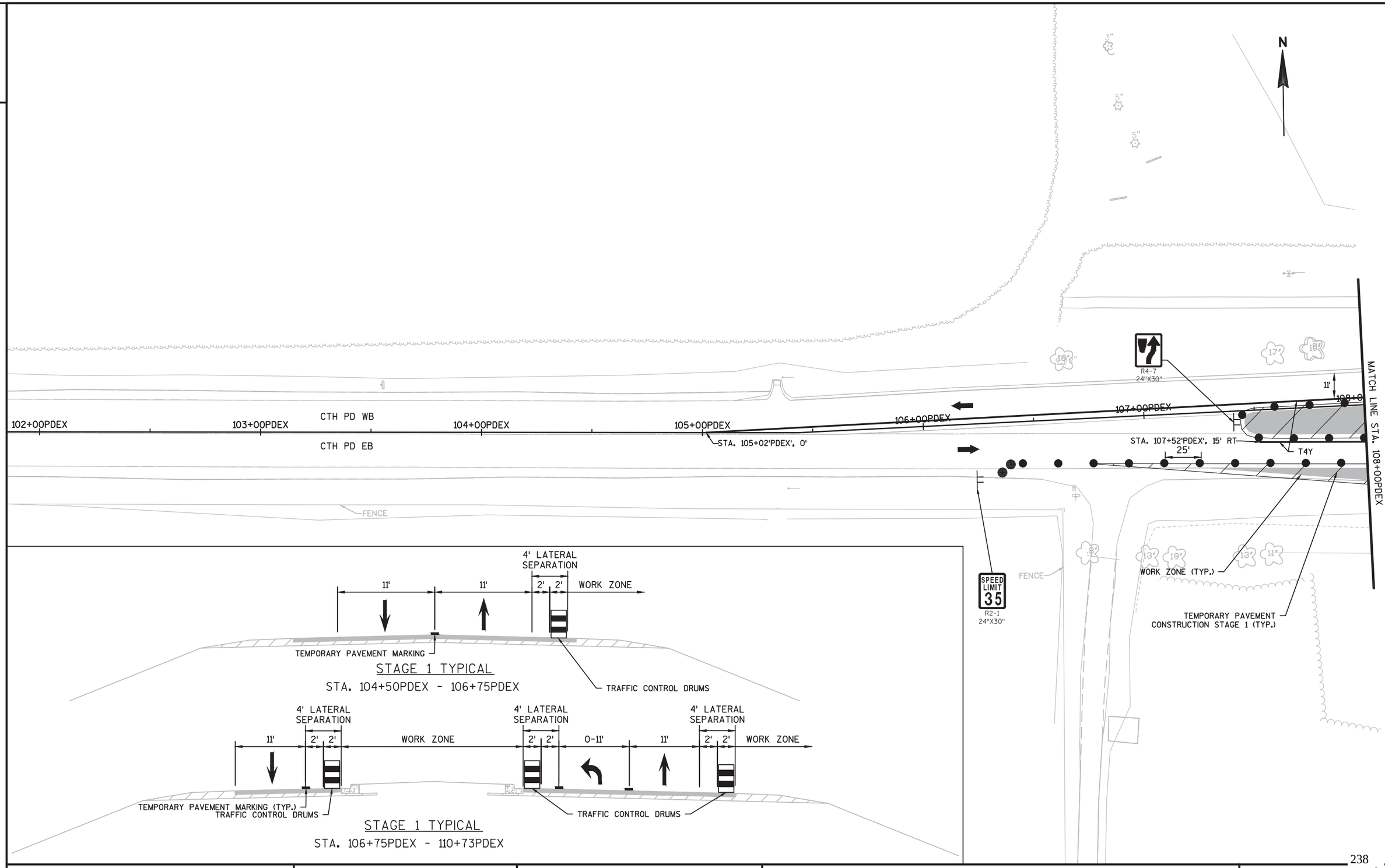
TRAFFIC OPERATIONS:

- CTH PD (EB AND WB): MAINTAIN ONE THROUGH LANE IN EACH DIRECTION ON EXISTING LANE ALIGNMENT EXCEPT FOR MINOR SHIFTING TO PROVIDE CLEARANCE TO THE WORK ZONE
- ALL INTERSECTIONS REMAIN OPEN



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL - STAGE 1 OVERVIEW	SHEET 237	E

2



238

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 1 (SHEET 1-1)	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025001_TC_STAGE 1.DWG
LAYOUT NAME - 025001
PLOT DATE : 10/17/2016 3:43 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

MERITER WAY

SIGN

SIDEWALK CLOSED
R9-9
24"X12"

MATCH LINE STA. 108+00PDEX

109+00PDEX

110+00PDEX

111+00PDEX

112+00PDEX

113+00PDEX

MATCH LINE STA. 114+00PDEX

CTH PD WB

CTH PD EB

11'

STA. 110+67'PDEX', 4' LT

T4Y

T8W

STA. 109+35'PDEX', 24' RT

11'

STA. 110+51'PDEX', 17' RT

11'

STA. 110+51'PDEX', 28' RT

R4-7
24"X30"

25'

WORK ZONE (TYP.)

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

SPEED LIMIT 35
R2-1
24"X30"

4' LATERAL SEPARATION

11'

2'

2'

WORK ZONE

TRAFFIC CONTROL DRUMS

STAGE 1 TYPICAL

STA. 110+73PDEX - 117+48PDEX

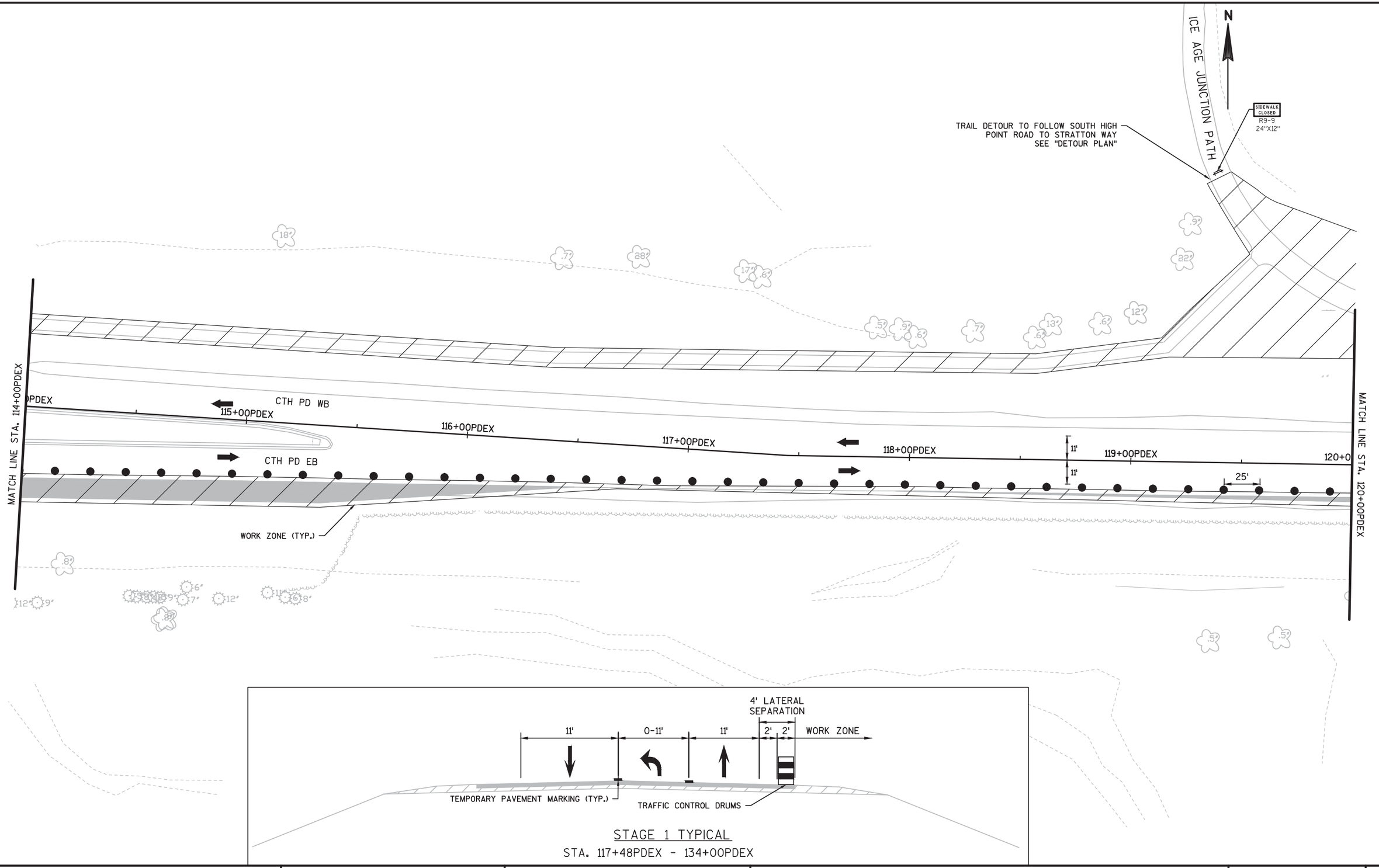
PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 1 (SHEET 1-2)	SHEET 239	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025001_TC_STAGE 1.DWG
LAYOUT NAME - 025002

PLOT DATE : 10/17/2016 3:43 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2



STAGE 1 TYPICAL

STA. 117+48PDEX - 134+00PDEX

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 1 (SHEET 1-3)	SHEET 240	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025001_TC_STAGE 1.DWG
LAYOUT NAME - 025003

PLOT DATE : 10/17/2016 3:44 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

PEDESTRIAN SAFETY FENCE

N

SIDEWALK CLOSED
R9-9
24"X12"

TRAIL DETOUR TO FOLLOW SOUTH HIGH POINT ROAD TO STRATTON WAY
SEE "DETOUR PLAN"

ICE AGE JUNCTION PATH

MATCH LINE STA. 120+00PDEX

120+00PDEX

121+00PDEX

122+00PDEX

123+00PDEX

124+00PDEX

125+00PDEX

126+00

MATCH LINE STA. 126+00PDEX

11'

CTH PD WB

11'

CTH PD EB

25'

WORK ZONE (TYP.)

CONSTRUCT TEMPORARY PAVEMENT TO
MAINTAIN ACCESS AT ALL TIMES

2

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 1 (SHEET 1-4)	SHEET 241	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025001_TC_STAGE 1.DWG
LAYOUT NAME - 025004

PLOT DATE : 10/17/2016 3:44 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

ICE AGE JUNCTION PATH CLOSED (SEE DETOUR PLAN)

MATCH LINE STA. 126+00PDEX

MATCH LINE STA. 132+00PDEX

0PDEX

127+00PDEX

128+00PDEX

129+00PDEX

130+00PDEX

131+00PDEX

132+0

11'

11'

25'

CTH PD WB

STA. 129+37'PDEX', 0' RT

CTH PD EB

T4DY

TR4W

25'

T8W

STA. 130+79'PDEX', 11' RT

11'

11'

WORK ZONE (TYP.)

ASPHALTIC CURB

W03-3

CONSTRUCT TEMPORARY PAVEMENT TO
MAINTAIN ACCESS AT ALL TIMES

NO PARKING ANY TIME

R7-1-D
18"X24"

GRADE AND BASE PROPOSED
ICE AGE TRAIL PARKING LOT DRIVEWAY
(PAVED IN STAGE 3)

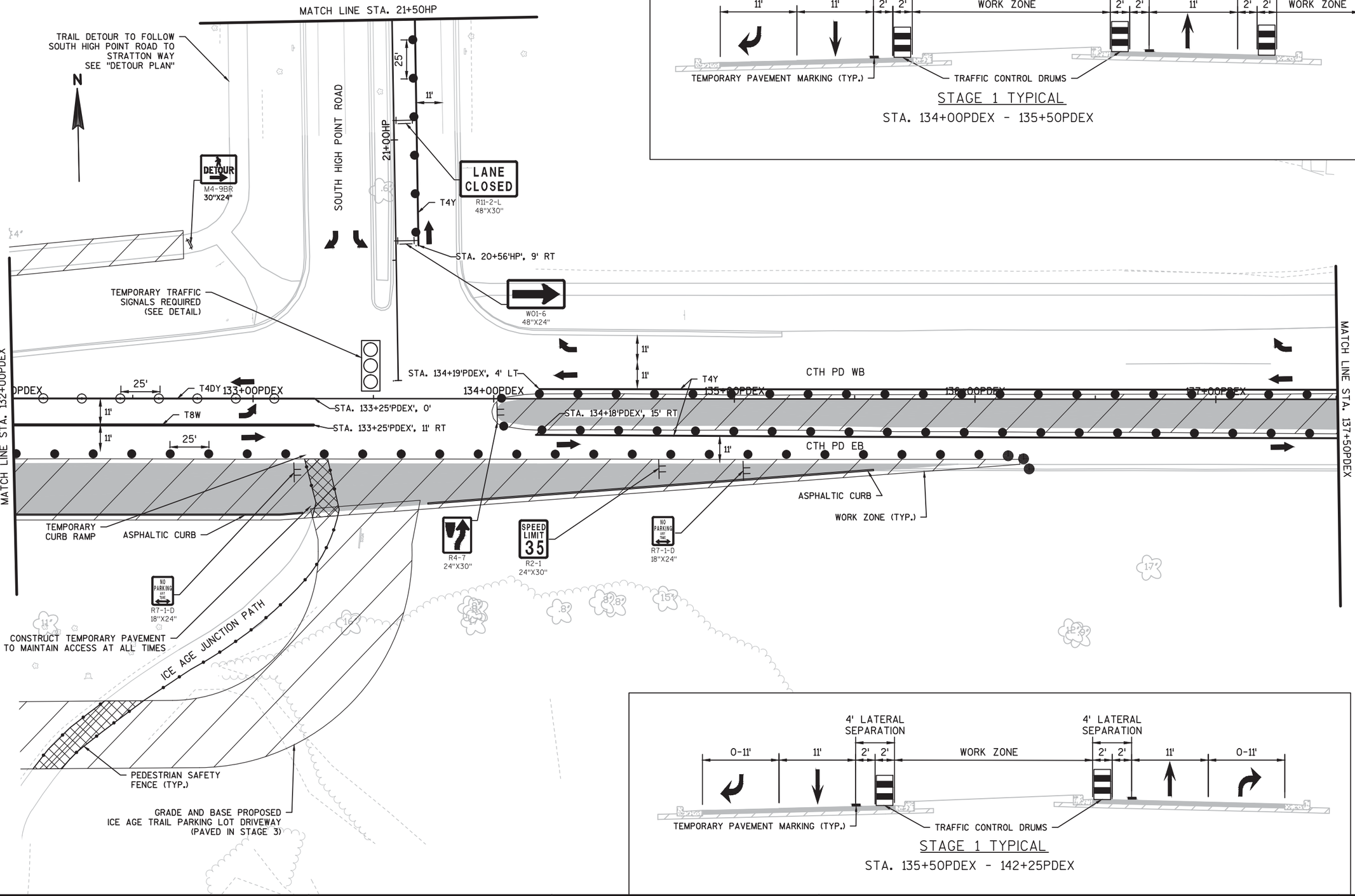
PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 1 (SHEET 1-5)	SHEET 242	E

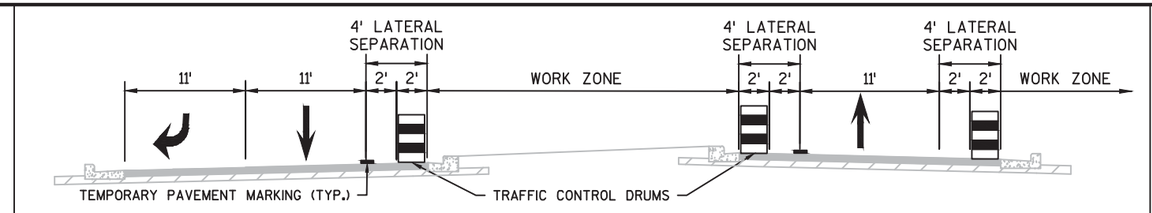
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025001_TC_STAGE 1.DWG
LAYOUT NAME - 025005

PLOT DATE : 10/17/2016 3:44 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2





STAGE 1 TYPICAL

STA. 134+00PDEX - 135+50PDEX

STAGE 1 TYPICAL

STA. 135+50PDEX - 142+25PDEX

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL-STAGE 1 (SHEET 1-6)	SHEET 243	E

2

N

MATCH LINE STA. 21+50HP

102' LANE SHIFT TAPER
(35 MPH)

224' LANE DROP TAPER
(35 MPH)

LANE CLOSED
R11-2-L
48"X30"

STA. 24+69'HP', 21' LT

STA. 22+90'HP', 20' LT

STA. 21+88'HP', 10' LT

STA. 25+14'HP', 22' LT

STA. 27+58'HP', 17' LT

T4Y

11'

11'

11'

25'

22+00HP

23+00HP

24+00HP

25+00HP

26+00HP

27+00HP

SOUTH HIGH POINT ROAD

STA. 24+67'HP', 10' RT

END
ROAD WORK
G20-2A
48"X24"

W01-6
48"X24"

LANE CLOSED
R11-2-L
48"X30"

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 1 (SHEET 1-7)	SHEET 244	E

2

2

N

STRATTON WAY

ONE WAY
R6-2-L
24"X30"

MATCH LINE STA. 137+50PDEX

138+00PDEX

T4Y

139+00PDEX

140+00PDEX

141+00PDEX

142+00PDEX

13'

11'

CTH PD WB

25'

CTH PD EB

11'

WORK ZONE (TYP.)

PEDESTRIAN SAFETY FENCE (TYP.)

R4-7
24"X30"

STA. 142+04'PDEX', 4' LT

STA. 142+02'PDEX', 15' RT

TR4W

STA. 142+68'PDEX', 0'

143+00PDEX

T8W

T4DY

25'

10'

11'

STA. 142+68'PDEX', 10' RT

STA. 142+93'PDEX', 35' RT

TR4W

MATCH LINE STA. 143+50PDEX

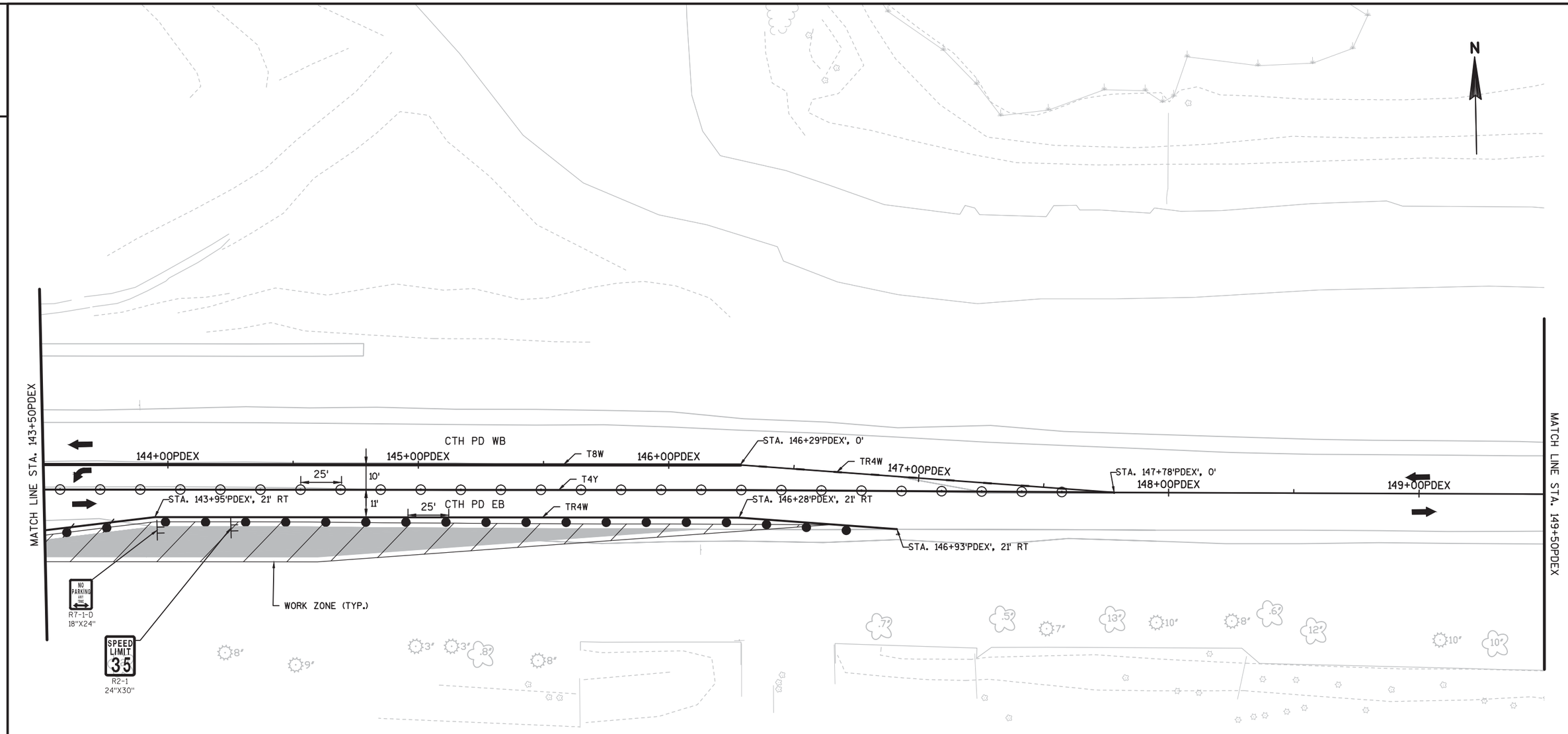
SNOWY PARKWAY

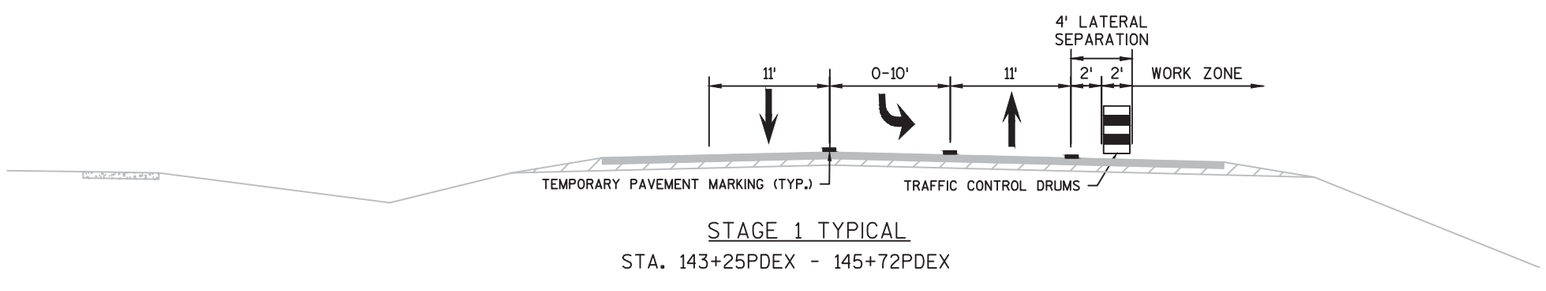
PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 1 (SHEET 1-8)	SHEET 245	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025001_TC_STAGE 1.DWG
LAYOUT NAME - 025007

PLOT DATE : 10/17/2016 3:45 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2





STAGE 1 TYPICAL

STA. 143+25PDEX - 145+72PDEX

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL-STAGE 1 (SHEET 1-9)	SHEET 246	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025001_TC_STAGE 1.DWG
LAYOUT NAME - 025007
PLOT DATE : 10/17/2016 3:45 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

MUIR FIELD ROAD

CTH PD WB

CTH PD EB

150+00PDEX

151+00PDEX

152+00PDEX

153+00PDEX

154+00PDEX

155+00PDEX

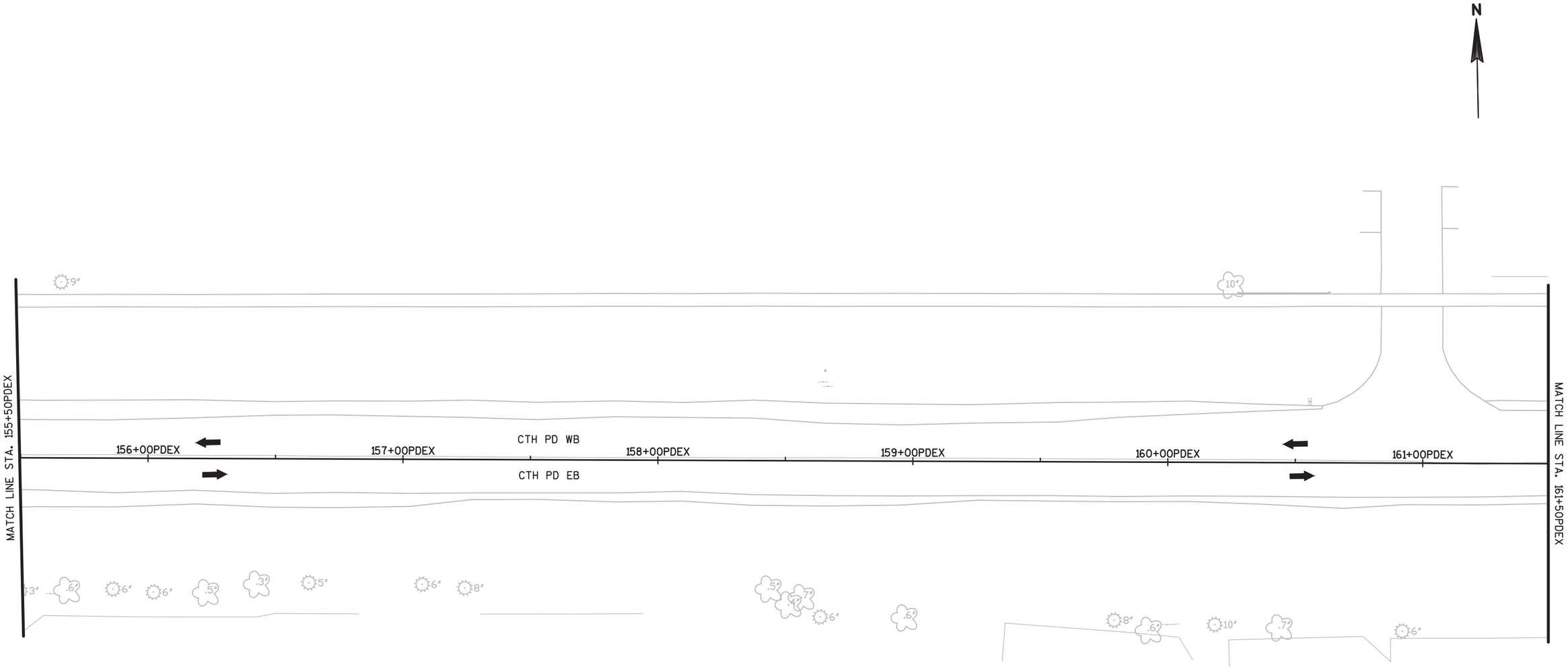
MATCH LINE STA. 149+50PDEX

MATCH LINE STA. 155+50PDEX

COUNTRY GROVE DRIVE

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 1 (SHEET 1-10)	SHEET 247	E

2



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 1 (SHEET 1-11)	SHEET 248	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025001_TC_STAGE 1.DWG
LAYOUT NAME - 025007

PLOT DATE : 10/17/2016 3:46 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

MATCH LINE STA. 161+50PDEX

162+00PDEX

163+00PDEX

164+00PDEX

165+00PDEX

166+00PDEX

167+00PDEX

MATCH LINE STA. 167+50PDEX

CTH PD WB

CTH PD EB

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 1 (SHEET 1-12)	SHEET 249	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025001_TC_STAGE 1.DWG
LAYOUT NAME - 025007

PLOT DATE : 10/17/2016 3:46 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

SILVERTON TRAIL

MATCH LINE STA. 167+50PDEX

168+00PDEX

169+00PDEX

STA. 169+43'PDEX', 1' RT

170+00PDEX

171+00PDEX

172+00PDEX

173+00PDEX

293' LANE MERGE TAPER
(40 MPH)

CTH PD WB

CTH PD EB

11'

11'

11'

25'

T4Y

STA. 172+17'PDEX', 17' RT

MATCH LINE STA. 173+50PDEX

R4-7
24"X30"

LANE
CLOSED

R11-2-L
48"X30"

TANGLEWOOD DRIVE

BUSHES

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 1 (SHEET 1-13)	SHEET 250	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025001_TC_STAGE 1.DWG
LAYOUT NAME - 0250012

PLOT DATE : 10/17/2016 3:46 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

R5-6
24"X24"

R4-7
24"X30"

LANE CLOSED
R11-2-L
48"X30"

MATCH LINE STA. 173+50PDEX

STA. 173+78'PDEX', 1' RT

174+00PDEX

STA. 174+94'PDEX', 1' RT

175+00PDEX

STA. 174+94'PDEX', 15' RT

STA. 173+78'PDEX', 16' RT

T4Y

11'

11'

CTH PD WB

11'

STA. 176+23'PDEX', 0' RT

176+00PDEX

177+00PDEX

T4Y

25'

178+00PDEX

179+00PDEX

11' CTH PD EB

11'

MATCH LINE STA. 179+50PDEX

WORK ZONE (TYP.)

BIKE LANE
R3-17
30"X24"

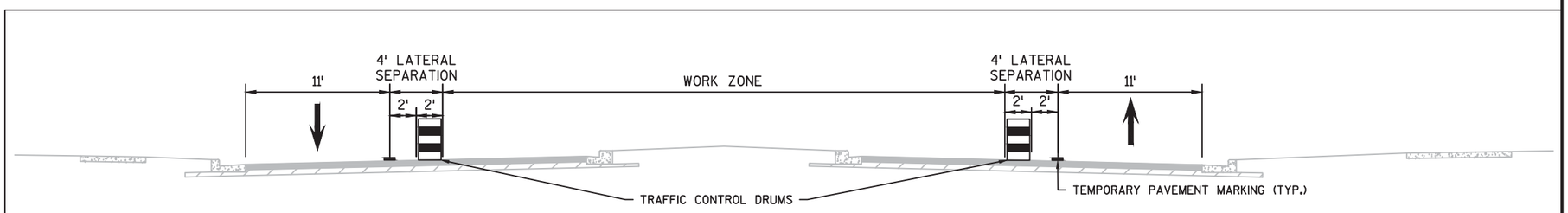
AHEAD
R3-17-A
30"X12"

ENDS
R3-17-B
30"X12"

STONECREEK DRIVE

R4-7
24"X30"

MAY USE FULL LANE
R4-11
30"X30"



STAGE 1 TYPICAL

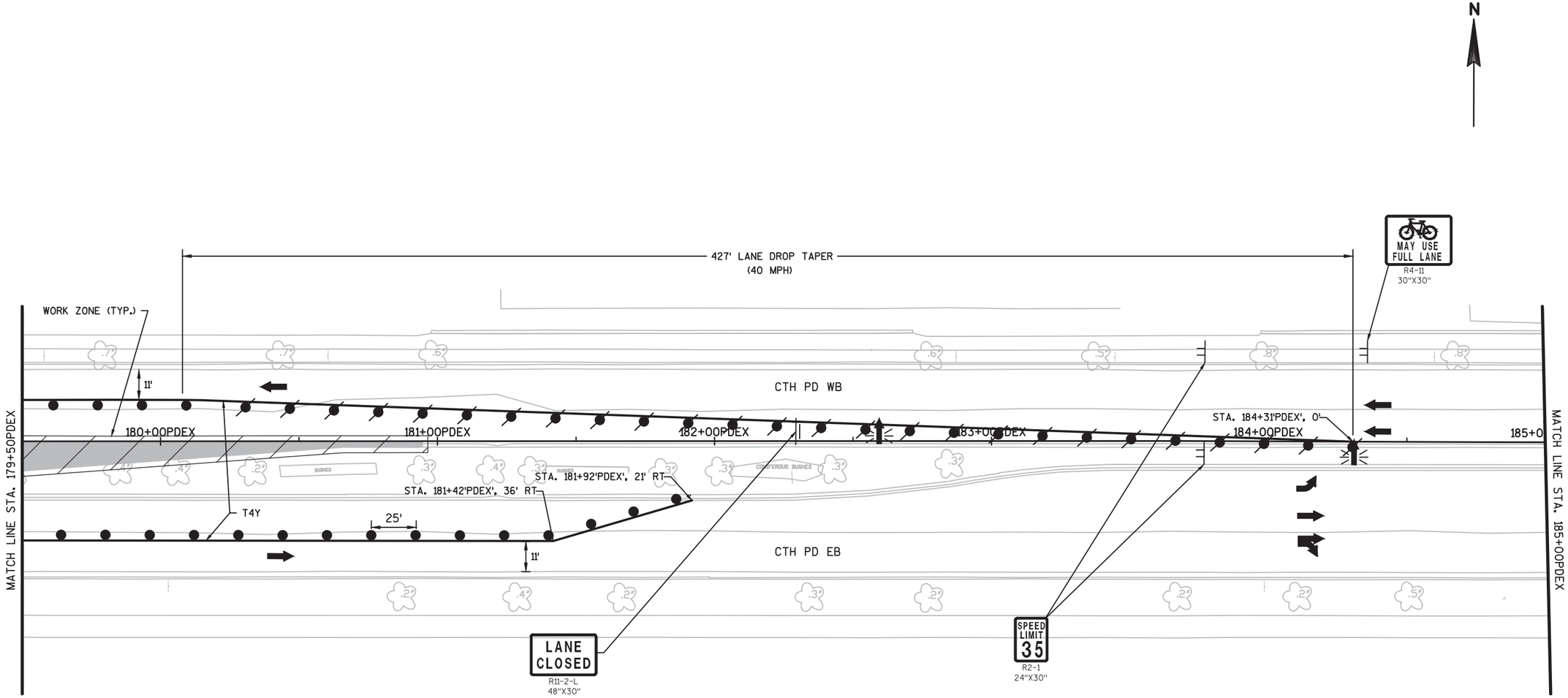
STA. 176+25PDEX - 181+75PDEX

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL-STAGE 1 (SHEET 1-14)	SHEET 251	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025001_TC_STAGE 1.DWG
LAYOUT NAME - 0250013

PLOT DATE : 10/17/2016 3:46 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 1 (SHEET 1-15)	SHEET 252	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025001_TC_STAGE 1.DWG
LAYOUT NAME - 0250014
PLOT DATE : 10/17/2016 3:46 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

BIKE LANE
R3-17
30"X24"
AHEAD
R3-17-A
30"X12"
ENDS
R3-17-B
30"X12"

W04-2L

MAPLE GROVE DRIVE

LEFT LANE CLOSED AHEAD
W20-5S-A

MATCH LINE STA. 185+00PDEX

0PDEX

186+00PDEX

187+00PDEX

188+00PDEX

CTH PD WB

CTH PD EB

EXISTING TRAFFIC SIGNALS TO REMAIN

MAPLE GROVE DRIVE

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 1 (SHEET 1-16)	SHEET 253	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025001_TC_STAGE 1.DWG
LAYOUT NAME - 0250014
PLOT DATE : 10/17/2016 3:47 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

CTH PD-STAGE 2A/2B

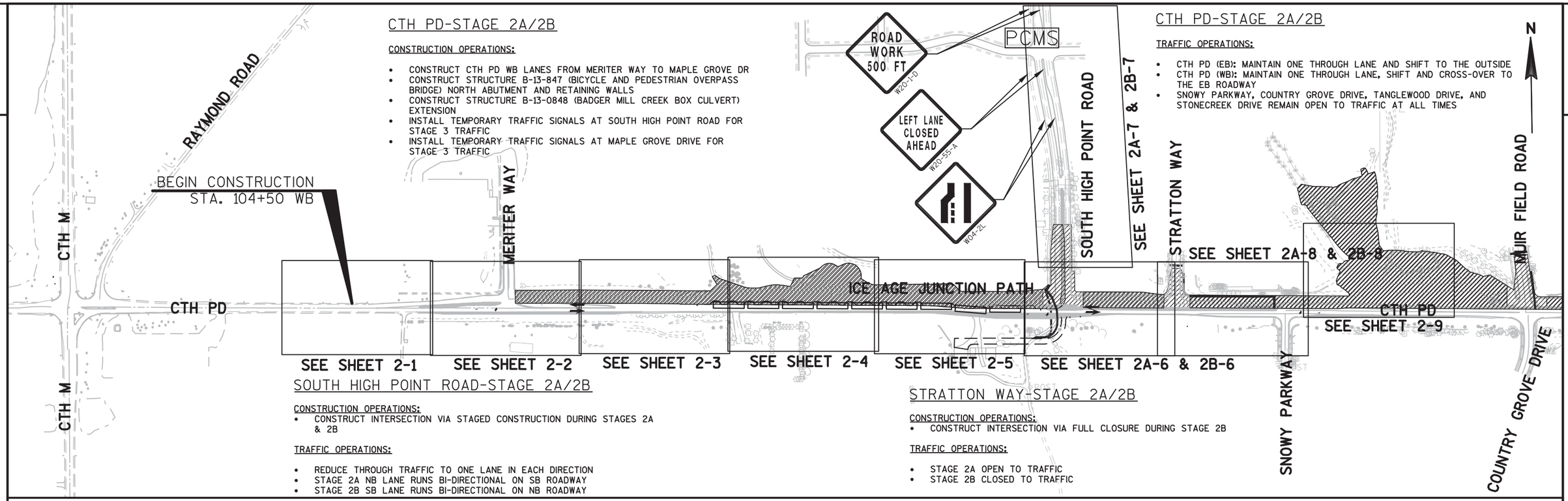
CONSTRUCTION OPERATIONS:

- CONSTRUCT CTH PD WB LANES FROM MERITER WAY TO MAPLE GROVE DR
- CONSTRUCT STRUCTURE B-13-847 (BICYCLE AND PEDESTRIAN OVERPASS BRIDGE) NORTH ABUTMENT AND RETAINING WALLS
- CONSTRUCT STRUCTURE B-13-0848 (BADGER MILL CREEK BOX CULVERT) EXTENSION
- INSTALL TEMPORARY TRAFFIC SIGNALS AT SOUTH HIGH POINT ROAD FOR STAGE 3 TRAFFIC
- INSTALL TEMPORARY TRAFFIC SIGNALS AT MAPLE GROVE DRIVE FOR STAGE 3 TRAFFIC

CTH PD-STAGE 2A/2B

TRAFFIC OPERATIONS:

- CTH PD (EB): MAINTAIN ONE THROUGH LANE AND SHIFT TO THE OUTSIDE
- CTH PD (WB): MAINTAIN ONE THROUGH LANE, SHIFT AND CROSS-OVER TO THE EB ROADWAY
- SNOWY PARKWAY, COUNTRY GROVE DRIVE, TANGLEWOOD DRIVE, AND STONECREEK DRIVE REMAIN OPEN TO TRAFFIC AT ALL TIMES



SOUTH HIGH POINT ROAD-STAGE 2A/2B

CONSTRUCTION OPERATIONS:

- CONSTRUCT INTERSECTION VIA STAGED CONSTRUCTION DURING STAGES 2A & 2B

TRAFFIC OPERATIONS:

- REDUCE THROUGH TRAFFIC TO ONE LANE IN EACH DIRECTION
- STAGE 2A NB LANE RUNS BI-DIRECTIONAL ON SB ROADWAY
- STAGE 2B SB LANE RUNS BI-DIRECTIONAL ON NB ROADWAY

STRATTON WAY-STAGE 2A/2B

CONSTRUCTION OPERATIONS:

- CONSTRUCT INTERSECTION VIA FULL CLOSURE DURING STAGE 2B

TRAFFIC OPERATIONS:

- STAGE 2A OPEN TO TRAFFIC
- STAGE 2B CLOSED TO TRAFFIC

MUIR FIELD ROAD-STAGE 2A/2B

CONSTRUCTION OPERATIONS:

- CONSTRUCT INTERSECTION VIA FULL CLOSURE DURING STAGE 2A

TRAFFIC OPERATIONS:

- STAGE 2A CLOSED TO TRAFFIC
- STAGE 2B OPEN TO TRAFFIC

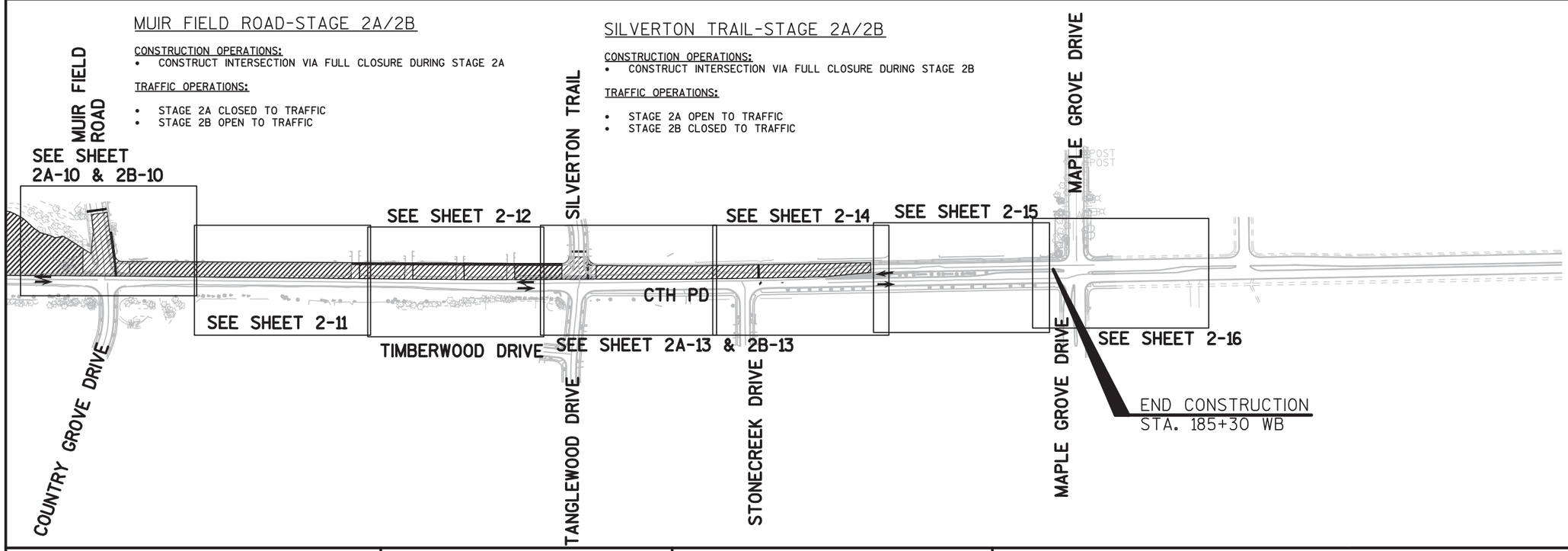
SILVERTON TRAIL-STAGE 2A/2B

CONSTRUCTION OPERATIONS:

- CONSTRUCT INTERSECTION VIA FULL CLOSURE DURING STAGE 2B

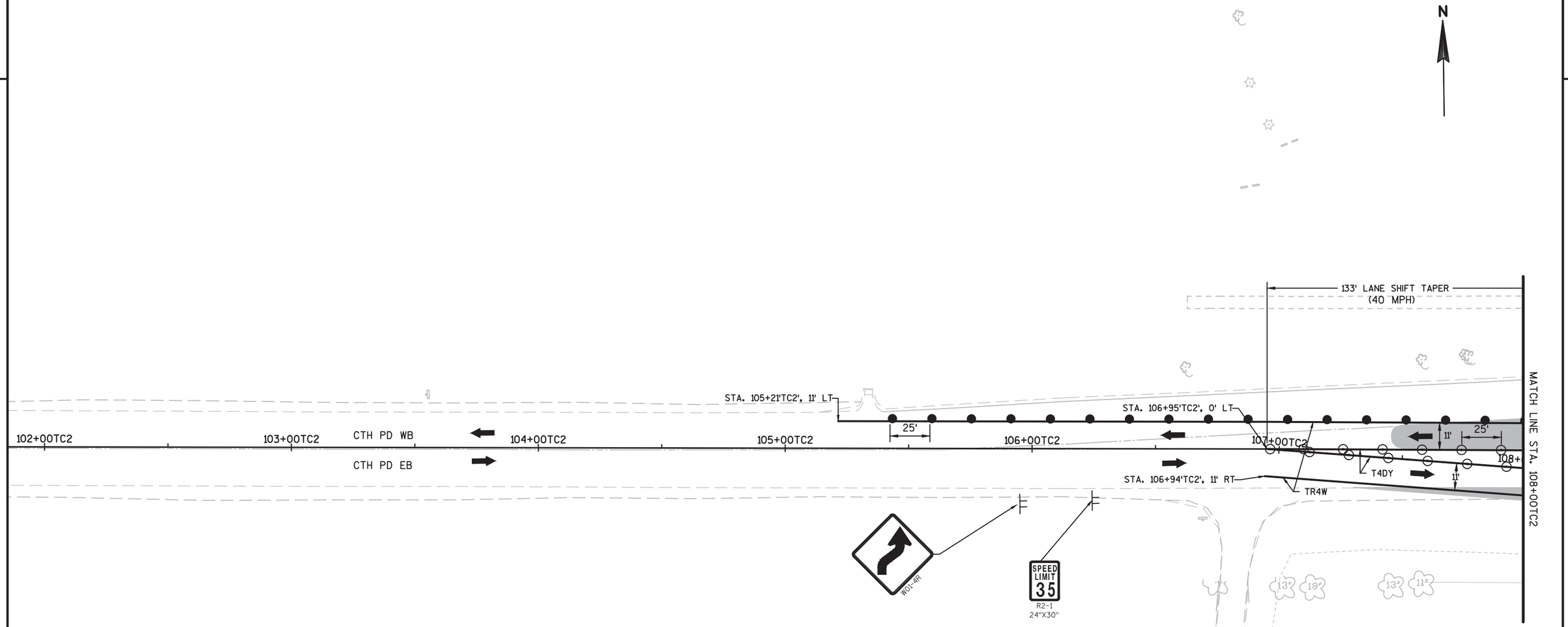
TRAFFIC OPERATIONS:

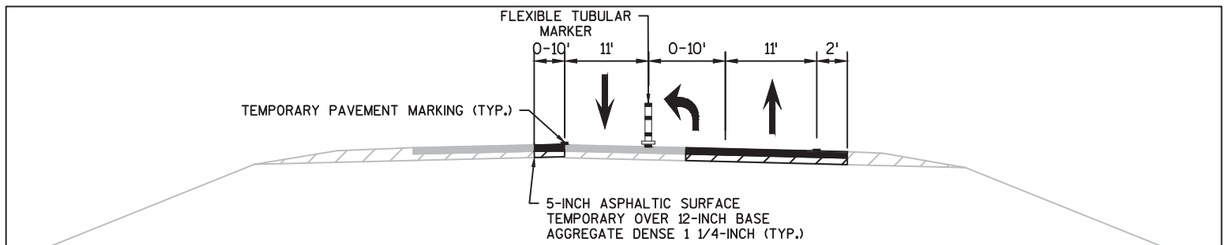
- STAGE 2A OPEN TO TRAFFIC
- STAGE 2B CLOSED TO TRAFFIC



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL - STAGE 2/2A/2B OVERVIEW	SHEET 254	E

2





STAGE 2 TYPICAL

STA. 106+95TC2 - 110+69TC2

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2 (SHEET 2-1)	SHEET 255	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025002A_TC_STAGE 2A.DWG
LAYOUT NAME - 025001
PLOT DATE : 10/17/2016 3:52 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

MERITER WAY

COMPLETE INTERSECTION CONSTRUCTION UNDER FLAGGING OPERATIONS

WORK ZONE (TYP.)

STA. 111+29'TC2', 94' LT

STA. 110+89'TC2', 93' LT

ROAD CLOSED
R11-2
48"X30"

SIDEWALK CLOSED
R9-9
24"X12"

ROAD CLOSED
R11-2
48"X30"

STOP
R1-1
30"X30"

TR4W

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

SPEED LIMIT 35
R2-1
24"X30"

STA. 110+68'TC2', 10' LT

T18W

STA. 110+89'TC2', 26' LT

133' LANE SHIFT TAPER (40 MPH)

MATCH LINE STA. 108+00TC2

STA. 109+34'TC2', 10' LT

25'

T4DY

11'

10'

TR4Y

25'

STA. 108+45'TC2', 0'

T8W

109+00TC2

110+00TC2

111+00TC2

112+00TC2

113+00TC2

CTH PD WB

T4DY

114+00TC2

MATCH LINE STA. 114+00TC2

STA. 109+34'TC2', 0'

STA. 110+68'TC2', 0'

CTH PD EB

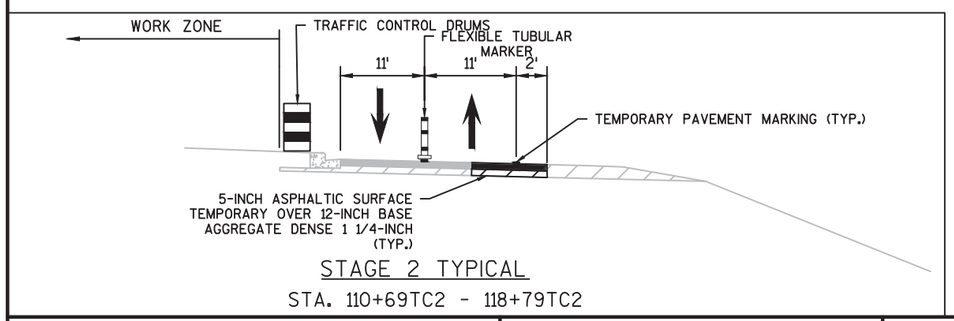
STA. 108+45'TC2', 11' RT

TR4W

133' LANE SHIFT TAPER (40 MPH)

STA. 112+01'TC2', 0'

SPEED LIMIT 35
R2-1
24"X30"



STAGE 2 TYPICAL

STA. 110+69TC2 - 118+79TC2

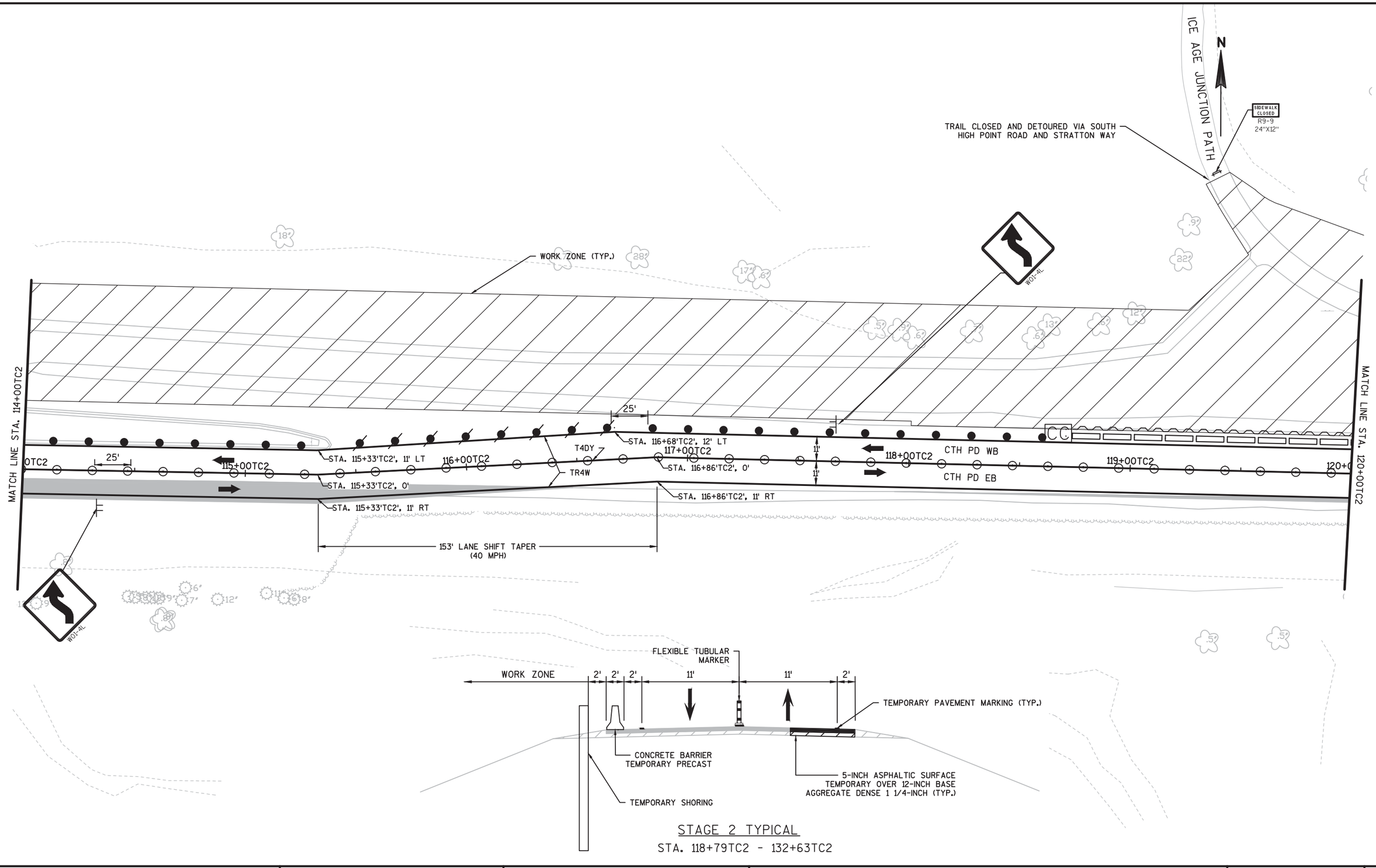
PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2 (SHEET 2-2)	SHEET 256	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025002A_TC_STAGE 2A.DWG
LAYOUT NAME - 025002

PLOT DATE : 10/17/2016 3:52 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



STAGE 2 TYPICAL

STA. 118+79TC2 - 132+63TC2

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL-STAGE 2 (SHEET 2-3)	SHEET 257	E

2

PEDESTRIAN SAFETY FENCE

N

SIDEWALK CLOSED
R9-9
24"X12"

WORK ZONE (TYP.)

ICE AGE JUNCTION PATH CLOSED (SEE DETOUR PLAN)

MATCH LINE STA. 120+00TC2

MATCH LINE STA. 126+00TC2

0TC2

TR4W

121+00TC2

T4DY

25'

122+00TC2

CTH PD WB

CTH PD EB

123+00TC2

11'

11'

124+00TC2

125+00TC2

126+

MAINTAIN ACCESS AT ALL
TIMES DURING CONSTRUCTION

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2 (SHEET 2-4)	SHEET 258	E

2

N

WORK ZONE (TYP.)

ICE AGE JUNCTION PATH CLOSED (SEE DETOUR PLAN)

SPEED LIMIT 35
R2-1
24"X30"

NO PARKING ANY TIME
R7-1-D
18"X24"

MATCH LINE STA. 126+00TC2

MATCH LINE STA. 132+00TC2

0TC2

25'

TR4W

T4DY

127+00TC2

11' CTH PD WB

11' CTH PD EB

STA. 128+19'TC2', 11' LT

128+00TC2

STA. 128+18'TC2', 0'

STA. 128+19'TC2', 11' RT

129+00TC2

130+00TC2

STA. 129+52'TC2', 0'

TR8W

131+00TC2

T8W

STA. 130+86'TC2', 0'

STA. 130+85'TC2', 11' RT

11'

10'

11'

132+0

W01-4R

W03-3

ONLY
R3-8-A
36"X30"

ROAD CLOSED
R11-2
48"X30"

267' LANE SHIFT TAPER
(40 MPH)

LEFT LANE MUST TURN LEFT
R3-7-L
30"X30"

NO PARKING ANY TIME
R7-1-D
18"X24"

W01-4L

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2 (SHEET 2-5)	SHEET 259	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025002A_TC_STAGE 2A.DWG
LAYOUT NAME - 025005

PLOT DATE : 10/17/2016 3:52 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

MATCH LINE STA. 21+50HP

TRAIL DETOUR TO FOLLOW SOUTH HIGH POINT ROAD TO STRATTON WAY SEE "DETOUR PLAN"

DETOUR M4-9BR 30"X24"

SOUTH HIGH POINT ROAD

21+00HP

NO PARKING ANY TIME R7-1-D 18"X24"

SPEED LIMIT 35 R2-1 24"X30"

T4DY

WORK ZONE (TYP.)

STA. 20+66'HP', 26' RT

STA. 20+10'HP', 2' RT

STA. 20+08'HP', 5' RT

STA. 20+08'HP', 16' RT

ROAD CLOSED R11-2 48"X30"

STA. 133+17'TC2', 44' LT

TEMPORARY TRAFFIC SIGNAL REQUIRED (SEE DETAIL)

TEMPORARY CURB RAMP

STA. 132+99'TC2', 21' LT

STA. 132+98'TC2', 10' LT

STA. 133+22'TC2', 10' LT

T18W

TR4W

STA. 134+33'TC2', 20' LT

WO1-6 48"X24"

T18W

STA. 135+55'TC2', 0'

25'

136+00TC2

T4DY

11'

CTH PD WB

137+00TC2

11'

CTH PD EB

MATCH LINE STA. 132+00TC2

25'

11'

10'

11'

T4DY

133+00TC2

TR4Y

TR8W

134+00TC2

STA. 133+22'TC2', 0' RT

STA. 134+31'TC2', 0'

STA. 135+54'TC2', 11' RT

T8W

STA. 132+98'TC2', 0'

TR4W

STA. 132+98'TC2', 11' RT

T18W

CRASH CUSHION TEMPORARY (TYP.)

SPEED LIMIT 35 R2-1 24"X30"

NO PARKING ANY TIME R7-1-D 18"X24"

R3-2 24"X24"

TEMPORARY CURB RAMP

256' LANE SHIFT TAPER (40 MPH)

SIDEWALK CLOSED R9-9 24"X12"

WO1-6 48"X24"

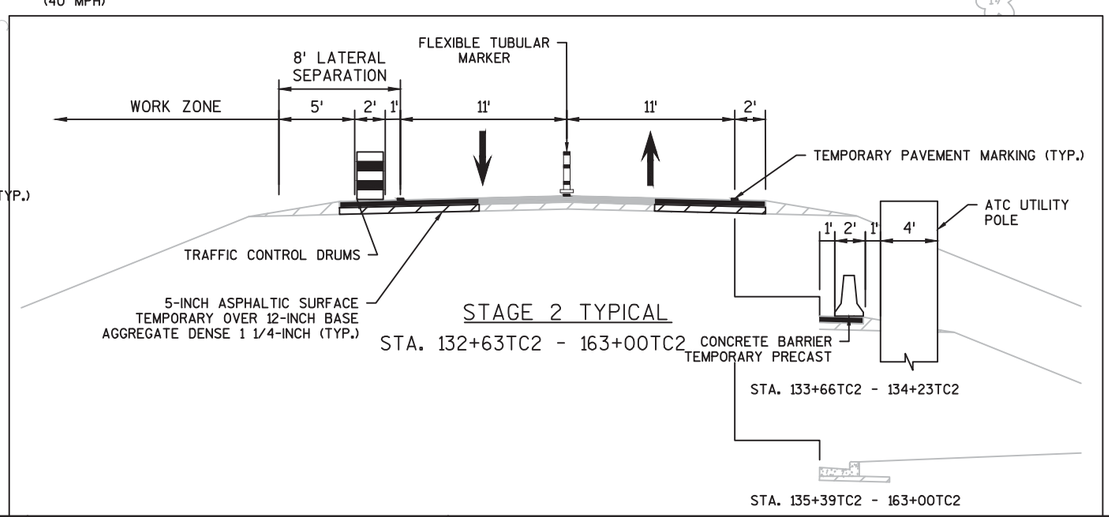
PEDESTRIAN SAFETY FENCE (TYP.)

22'

ICE AGE JUNCTION PATH ENTRANCE

ICE AGE JUNCTION PATH

MATCH LINE STA. 137+50TC2



STAGE 2 TYPICAL

STA. 132+63TC2 - 163+00TC2

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2A (SHEET 2A-6)	SHEET 260	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025002A_TC_STAGE 2A.DWG
LAYOUT NAME - 025006

PLOT DATE : 10/17/2016 3:53 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

MATCH LINE STA. 21+50HP

TRAIL DETOUR TO FOLLOW SOUTH HIGH POINT ROAD TO STRATTON WAY SEE "DETOUR PLAN"

WORK ZONE (TYP.)

DETOUR M4-9BR 30"X24"

SOUTH HIGH POINT ROAD

21+00HP

T4DY

NO PARKING ANY TIME R7-1-D 18"X24"

SPEED LIMIT 35 R2-1 24"X30"

ROAD CLOSED R11-2 48"X30"

ROAD CLOSED R11-2 48"X30"

NO PARKING ANY TIME R7-1-D 18"X24"

SPEED LIMIT 35 R2-1 24"X30"

TEMPORARY TRAFFIC SIGNAL REQUIRED (SEE DETAIL)

STA. 133+17'TC2', 44' LT

STA. 133+30'TC2', 39' LT

W01-6 48"X24"

TEMPORARY CURB RAMP

STA. 132+74'TC2', 21' LT

T18W

TR4W

STA. 133+86'TC2', 14' LT

TR4Y

STA. 133+85'TC2', 3' LT

T18W

T4DY

136+00TC2

CTH PD WB

25'

137+00TC2

25'

CTH PD EB

11'

135+00TC2

STA. 135+55'TC2', 0'

10'

STA. 132+98'TC2', 10' LT

133+00TC2

STA. 133+85'TC2', 0'

STA. 134+35'TC2', 0' RT

11'

STA. 135+53'TC2', 11' RT

MATCH LINE STA. 132+00TC2

TR4W

11'

STA. 132+98'TC2', 0'

T18W

TR8W

STA. 132+99'TC2', 11' RT

R3-2 24"X24"

CRASH CUSHION TEMPORARY (TYP.)

TEMPORARY CURB RAMP

SIDEWALK CLOSED R9-9 24"X12"

W01-6 48"X24"

R4-7 24"X30"

SPEED LIMIT 35 R2-1 24"X30"

NO PARKING ANY TIME R7-1-D 18"X24"

256' LANE SHIFT TAPER (40 MPH)

PEDESTRIAN SAFETY FENCE (TYP.)

22'

ICE AGE JUNCTION PATH ENTRANCE

ICE AGE JUNCTION PATH

MATCH LINE STA. 137+50TC2

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2B (SHEET 2B-6)	SHEET 261	E

2

N

MAINTAIN ACCESS TO
BUSINESS AT ALL TIMES

256' LANE SHIFT TAPER
(35 MPH)

224' LANE DROP TAPER
(35 MPH)

WORK ZONE (TYP.)

W6-3
36"X36"

LANE
CLOSED
R11-2-L
48"X30"

MATCH LINE STA. 21+50HP

22+00HP

STA. 22+62'HP', 4' RT

23+00HP

24+00HP

25+00HP

26+00HP

27+00HP

STA. 25+46'HP', 22' LT

STA. 25+20'HP', 22' LT

STA. 27+70'HP', 38' LT

STA. 25+20'HP', 13' LT

STA. 25+55'HP', 10' RT

TR4W

25'

11'

11'

T4DY

T4Y

SOUTH HIGH POINT ROAD

STA. 22+62'HP', 15' RT

W01-6
48"X24"

END
ROAD WORK
G20-2A
48"X24"

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2A (SHEET 2A-7)	SHEET 262	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025002A_TC_STAGE 2A.DWG
LAYOUT NAME - 025006

PLOT DATE : 10/17/2016 3:53 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

2

N

W6-3
36"X36"

MAINTAIN ACCESS TO
BUSINESS AT ALL TIMES

224' LANE DROP TAPER
(35 MPH)

STA. 27+58'HP', 17' LT

STA. 25+33'HP', 34' LT

STA. 22+68'HP', 25' LT

STA. 22+69'HP', 36' LT

T4DY

11'

11'

25'

TR4W

T4Y

SOUTH HIGH POINT ROAD

MATCH LINE STA. 21+50HP

22+00HP

STA. 22+68'HP', 14' LT

23+00HP

24+00HP

25+00HP

STA. 25+19'HP', 2' LT

26+00HP

27+00HP

W01-6
48"X24"

STA. 25+18'HP', 9' RT

250' LANE SHIFT TAPER
(35 MPH)

WORK ZONE (TYP.)

W01-4R

END
ROAD WORK

G20-2A
48"X24"

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2B (SHEET 2B-7)	SHEET 263	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025002B_TC_STAGE 2B.DWG
LAYOUT NAME - 025006

PLOT DATE : 10/17/2016 3:53 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

N

ROAD CLOSED
R11-2
48"X30"

STRATTON WAY

SIDEWALK CLOSED
CROSS HERE
R9-11-A
24"X12"

STA. 137+95'TC2', 76' LT

STA. 138+27'TC2', 76' LT

PEDESTRIAN SAFETY FENCE (TYP.)

NO PARKING ANY TIME
R7-1-D
18"X24"

WORK ZONE (TYP.)

SPEED LIMIT 35
R2-1
24"X30"

NO PARKING ANY TIME
R7-1-D
18"X24"

SIDEWALK CLOSED
CROSS HERE
R9-11-A
24"X12"

ROAD CLOSED
R11-2
48"X30"

STOP
R1-1
30"X30"

TR4W

T18W

STA. 137+95'TC2', 16' LT

MATCH LINE STA. 137+50TC2

138+00TC2

139+00TC2

140+00TC2

141+00TC2

142+00TC2

CTH PD WB

CTH PD EB

T4DY

25'

11'

10'

STA. 142+08'TC2', 11' LT

STA. 143+00'TC2', 10' LT

143+00TC2

T8W

STA. 143+00'TC2', 0'

TR4W

T4DY

STA. 142+99'TC2', 10' RT

MATCH LINE STA. 143+50TC2

STA. 139+74'TC2', 0'

STA. 141+08'TC2', 0'

STA. 142+08'TC2', 0'

ONE WAY
R6-2-R
24"X30"

W01-4R

SPEED LIMIT 35
R2-1
24"X30"

W01-6
48"X24"

R4-7
24"X30"

SNOWY PARKWAY

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2A (SHEET 2A-8)	SHEET 264	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025002A_TC_STAGE 2A.DWG
LAYOUT NAME - 025007

PLOT DATE : 10/17/2016 3:53 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

ROAD CLOSED AHEAD
W20-3-A

TEMPORARY CURB RAMP

SIDEWALK CLOSED
CROSS HERE
R9-11-A
24"X12"

ROAD CLOSED
R11-2
48"X30"

STRATTON WAY

POST

WORK ZONE (TYP.)

R3-1
24"X24"

NO PARKING
EXT TIME
R7-1-D
18"X24"

PEDESTRIAN SAFETY FENCE (TYP.)

SPEED LIMIT 35
R2-1
24"X30"

NO PARKING
EXT TIME
R7-1-D
18"X24"

SIDEWALK CLOSED
CROSS HERE
R9-11-A
24"X12"

ROAD CLOSED
R11-2
48"X30"

MATCH LINE STA. 137+50 TC2

138+00TC2

139+00TC2

T4DY

CTH PD WB

CTH PD EB

STA. 139+74'TC2', 0'

140+00TC2

141+00TC2

142+00TC2

25'

11'

STA. 141+08'TC2', 0'

STA. 142+08'TC2', 0'

STA. 142+08'TC2', 11' LT

STA. 143+00'TC2', 11' LT

T8W

T4DY

10'

143+00TC2

STA. 143+00'TC2', 1' LT

TR4W

STA. 143+00'TC2', 10' RT

MATCH LINE STA. 143+50 TC2

ROAD CLOSED
R11-2
48"X30"

W01-4R

SPEED LIMIT 35
R2-1
24"X30"

W01-6
48"X24"

SNOWY PARKWAY

R4-7
24"X30"

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL-STAGE 2B (SHEET 2B-8)	SHEET 265	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025002B_TC_STAGE 2B.DWG
LAYOUT NAME - 025007

PLOT DATE : 10/17/2016 3:53 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

BADGER MILL CREEK

17+00BM

16+00BM

15+00BM

14+00BM

13+00BM

MATCH LINE STA. 12+50

WORK ZONE (TYP.)

NO PARKING ANY TIME
R7-1-D
18"X24"

LEFT LANE MUST TURN LEFT
R3-7-L
30"X30"

ONLY ONLY
R3-8-E
36"X30"

W01-4L

MATCH LINE STA. 143+50

MATCH LINE STA. 149+50

11'

10'

11'

T8W

T4DY

TR4W

144+00TC2

STA. 144+60'TC2', 0'

STA. 144+62'TC2', 10' LT

145+00TC2

146+00TC2

STA. 146+39'TC2', 0'

147+00TC2

CTH PD WB

CTH PD EB

25'

148+00TC2

25'

11'

11'

149+00TC2

STA. 149+31'TC2', 11' RT

178' LANE SHIFT TAPER
(40 MPH)

W01-4L

SPEED LIMIT 35
R2-1
24"X30"

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2 (SHEET 2-9)	SHEET 266	E

2

N

ROAD CLOSED
R11-2
48"X30"

SIDEWALK CLOSED
CROSS HERE
R9-11-A
24"X12"

100'

TEMPORARY CURB RAMP

ROAD CLOSED
R11-2
48"X30"

MUIR FIELD ROAD

MATCH LINE STA. 12+50'BM'

WORK ZONE (TYP.)

12+00BM

11+00BM

B-13-0848 BADGER MILL CREEK BOX
CULVERT EXTENSION LOCATION

PEDESTRIAN SAFETY
FENCE (TYP.)

SIDEWALK CLOSED
CROSS HERE
R9-11-A
24"X12"

R3-1
24"X24"

SPEED LIMIT
35
R2-1
24"X30"

MATCH LINE STA. 149+50TC2

MATCH LINE STA. 155+50TC2

25'

25'

150+00TC2

151+00TC2

152+00TC2

153+00TC2

154+00TC2

155+00TC2

T8W

T4DY

TR4W

11'

11'

10'

11'

11'

STA. 151+62'TC2', 0' RT

STA. 151+62'TC2', 11' RT

STA. 151+25'TC2', 11' RT

STA. 152+82'TC2', 0' RT

STA. 154+62'TC2', 11' RT

CTH PD WB

CTH PD EB

NO PARKING
ANY TIME
R7-1-D
18"X24"

R3-2
24"X24"

COUNTRY GROVE DRIVE

ROAD CLOSED
R11-2
48"X30"

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2A (SHEET 2A-10)	SHEET 267	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025002A_TC_STAGE 2A.DWG
LAYOUT NAME - 025009

PLOT DATE : 10/17/2016 3:54 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

MATCH LINE STA. 12+50TBM'

WORK ZONE (TYP.)

12+00BM

B-13-0848 BADGER MILL CREEK BOX CULVERT EXTENSION LOCATION

11+00BM

T4Y

STA. 56+21'CM', 11' LT

T8W

56+00CM

MUIR FIELD ROAD

ROAD CLOSED
R11-2
48"X30"

SIDEWALK CLOSED
R9-9
24"X12"

STOP
R1-1
30"X30"

SIDEWALK CLOSED
CROSS HERE
R9-11-A
24"X12"

ROAD CLOSED
R11-2
48"X30"

55+00CM

SPEED LIMIT 35
R2-1
24"X30"

PEDESTRIAN SAFETY FENCE (TYP.)

STA. 153+12'TC2', 11' LT

STA. 154+12'TC2', 21' LT

STA. 154+62'TC2', 11' LT

MATCH LINE STA. 149+50TC2

MATCH LINE STA. 155+50TC2

STA. 151+66'TC2', 0'

T18W

STA. 54+56'CM', 3' RT

TR4W

150+00TC2

25'

25'

151+00TC2

152+00TC2

153+00TC2

154+00TC2

155+00TC2

T4DY

T8W

STA. 154+12'TC2', 11' LT

CTH PD WB

CTH PD EB

TR4W

T4DY

11'

11'

11'

10'

10'

STA. 151+25'TC2', 11' RT

STA. 151+62'TC2', 11' RT

STA. 152+12'TC2', 24' LT

STA. 54+55'CM', 8' LT

STA. 152+83'TC2', 0'

STA. 154+62'TC2', 11' RT

NO PARKING
ANY TIME
R7-1-D
18"X24"

54+00CM

COUNTRY GROVE DRIVE

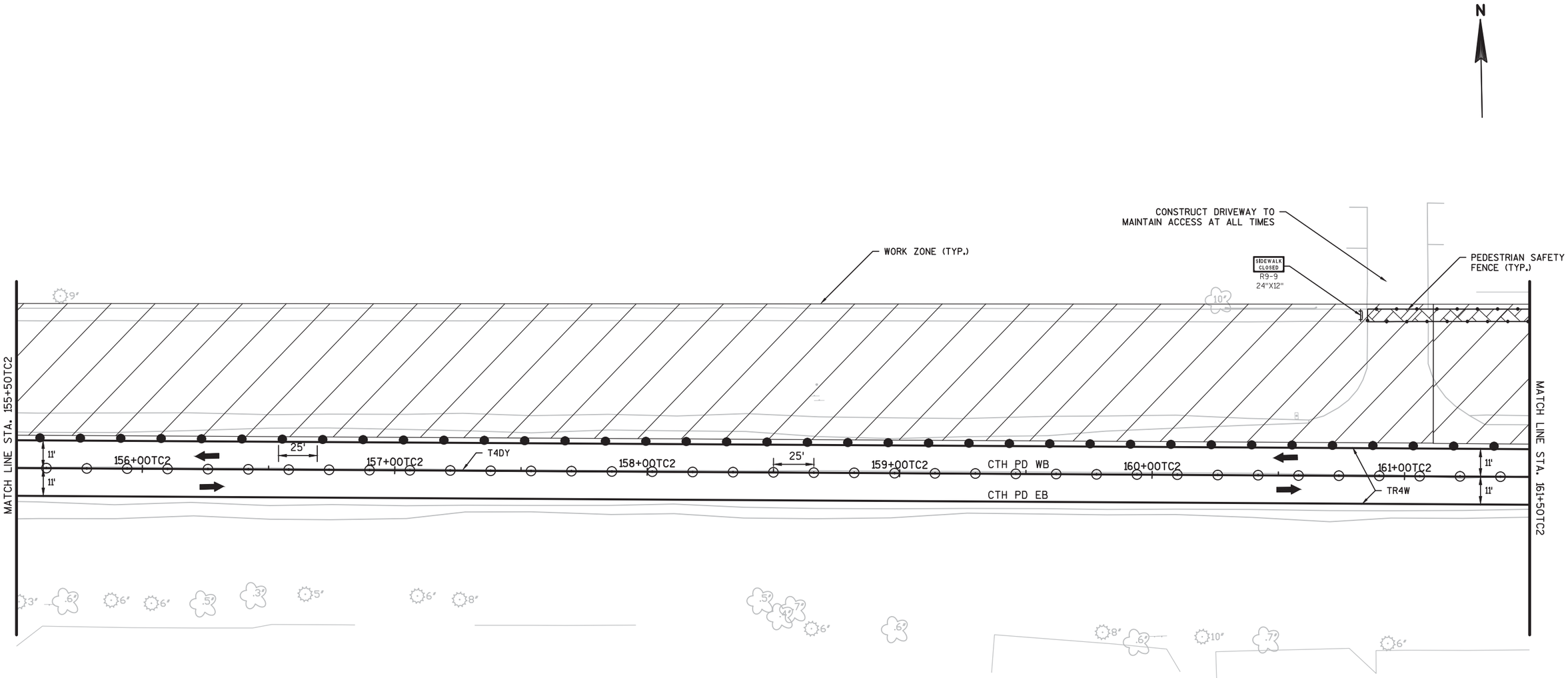
53+00CM

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2B (SHEET 2B-10)	SHEET	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025002B_TC_STAGE 2B.DWG
LAYOUT NAME - 025009

PLOT DATE : 10/17/2016 3:54 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

2



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2 (SHEET 2-11)	SHEET 269	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025002A_TC_STAGE 2A.DWG
LAYOUT NAME - 0250010

PLOT DATE : 10/17/2016 3:54 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

CONSTRUCT DRIVEWAY TO MAINTAIN ACCESS AT ALL TIMES

WORK ZONE (TYP.)

PEDESTRIAN SAFETY FENCE (TYP.)

MATCH LINE STA. 161+50TC2

11'

11'

162+00TC2

TR4W

T4DY

163+00TC2

25'

164+00TC2

25'

165+00TC2

CTH PD WB

CTH PD EB

166+00TC2

167+00TC2

T8W

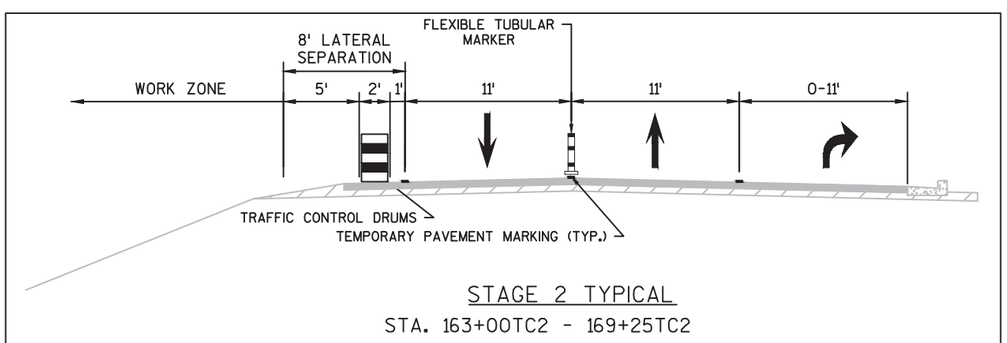
STA. 166+26'TC2', 11' RT

STA. 162+96'TC2', 11' RT

MATCH LINE STA. 167+50TC2

R3-2
24"X24"

*SIGN PLACEMENT ONLY APPLIES TO STAGE 2B



STAGE 2 TYPICAL

STA. 163+00TC2 - 169+25TC2

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2 (SHEET 2-12)	SHEET 270	E

2

N

SILVERTON TRAIL

STOP
R1-1
30"X30"

SPEED LIMIT 35
R2-1
24"X30"

STA. 168+57'TC2', 65' LT

STA. 168+89'TC2', 67' LT

WORK ZONE (TYP.)

PEDESTRIAN SAFETY FENCE (TYP.)

TR4W

LANE CLOSED
R11-2-L
48"X30"

SPEED LIMIT 35
R2-1
24"X30"

MATCH LINE STA. 167+50TC2

STA. 168+13'TC2', 0' LT

T18W

STA. 168+56'TC2', 16' LT

11'

T4DY

168+00TC2

11'

T8W

11'

169+00TC2

CTH PD WB

25'

170+00TC2

T4DY

171+00TC2

172+00TC2

25'

173+00TC2

11'

STA. 169+25'TC2', 0'

CTH PD EB

STA. 172+19'TC2', 0'

MATCH LINE STA. 173+50TC2

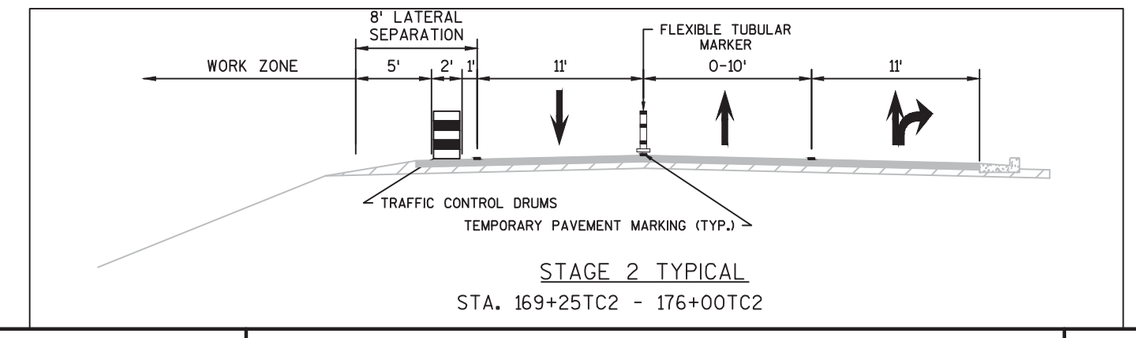
STA. 168+06'TC2', 11' RT

R4-7
24"X30"

293' LANE MERGE TAPER
(40 MPH)

ROAD CLOSED
R11-2
48"X30"

TANGLEWOOD DRIVE



STAGE 2 TYPICAL
STA. 169+25TC2 - 176+00TC2

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2A (SHEET 2A-13)	SHEET 271	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025002A_TC_STAGE 2A.DWG
LAYOUT NAME - 0250012
PLOT DATE : 10/17/2016 3:54 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

ROAD CLOSED AHEAD
W20-3-A

TEMPORARY CURB RAMP

ROAD CLOSED
R11-2
48"X30"

SIDEWALK CLOSED
CROSS HERE
R9-11-A
24"X12"

SILVERTON TRAIL

WORK ZONE (TYP.)

PEDESTRIAN SAFETY FENCE (TYP.)

R3-1
24"X24"

SPEED LIMIT 35
R2-1
24"X30"

SPEED LIMIT 35
R2-1
24"X30"

MATCH LINE STA. 167+50 TC2

11'
TR4W
168+00TC2
STA. 168+13'TC2', 0' LT
11'
T4DY
11'
T8W
STA. 168+07'TC2', 11' RT

169+00TC2
11'
STA. 169+26'TC2', 0' LT

170+00TC2

CTH PD WB

25'

171+00TC2

T4DY

CTH PD EB

172+00TC2
STA. 172+19'TC2', 0'

11'
25'
11'
173+00TC2

MATCH LINE STA. 173+50 TC2

ROAD CLOSED
R11-2
48"X30"

R4-7
24"X30"

293' LANE MERGE TAPER
(40 MPH)

LANE CLOSED
R11-2-L
48"X30"

TANGLEWOOD DRIVE

N

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2B (SHEET 2B-13)	SHEET 272	E

2

N

346' LANE SHIFT TAPER
(40 MPH)

ROAD CLOSED
R11-2
48"X30"

PEDESTRIAN SAFETY FENCE (TYP.)

NO PARKING ANY TIME
R7-1-D
18"X24"

WORK ZONE (TYP.)

MATCH LINE STA. 173+50TC2

MATCH LINE STA. 179+50TC2

STA. 175+95'TC2', 10' LT

STA. 177+21'TC2', 21' LT

T4DY

TR4W

STA. 174+95'TC2', 10' LT

T8W

STA. 176+46'TC2', 10' LT

T4Y

CTH PD WB

STA. 173+80'TC2', 10' LT

174+00TC2

175+00TC2

25'

176+00TC2

177+00TC2

STA. 177+21'TC2', 10' LT

178+00TC2

25'

179+00TC2

STA. 173+80'TC2', 0'

STA. 174+95'TC2', 0'

STA. 175+95'TC2', 0'

CTH PD EB

11'

10'

11'

4DY

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

R4-7
24"X30"

SPEED LIMIT 35
R2-1
24"X30"

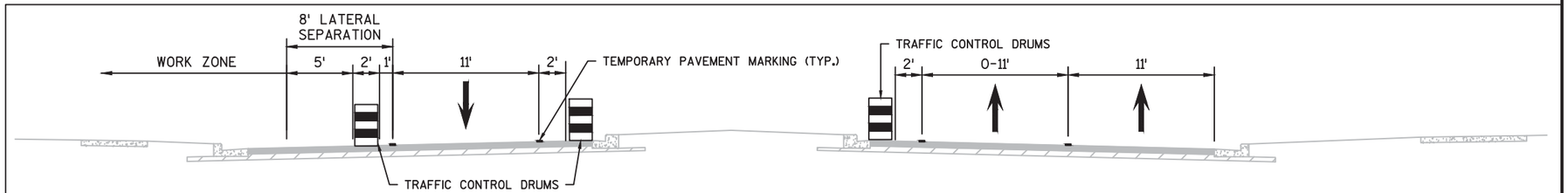
MAY USE FULL LANE
R4-11
30"X30"

BIKE LANE
R3-17
30"X24"

AHEAD
R3-17-A
30"X12"

ENDS
R3-17-B
30"X12"

STONECREEK DRIVE



STAGE 2 TYPICAL

STA. 176+00TC2 - 185+30TC2

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2 (SHEET 2-14)	SHEET 273	E

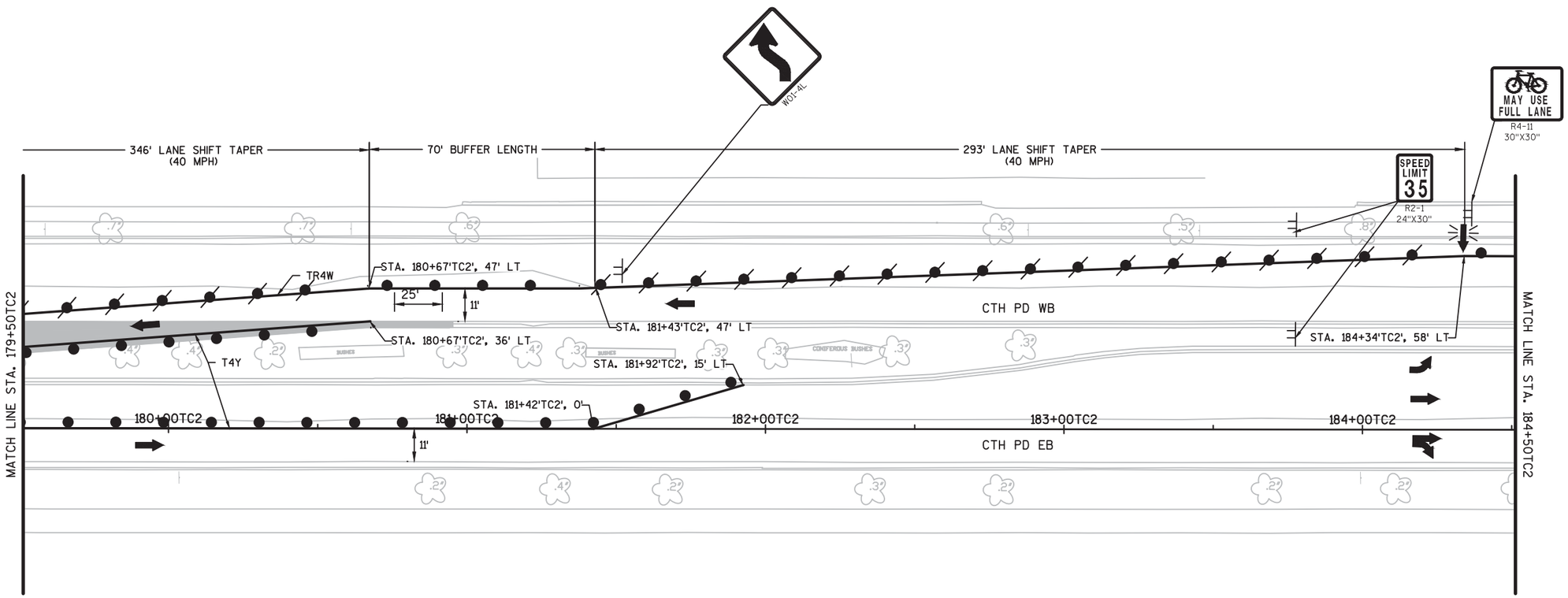
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025002A_TC_STAGE 2A.DWG
LAYOUT NAME - 0250013

PLOT DATE : 10/17/2016 3:55 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

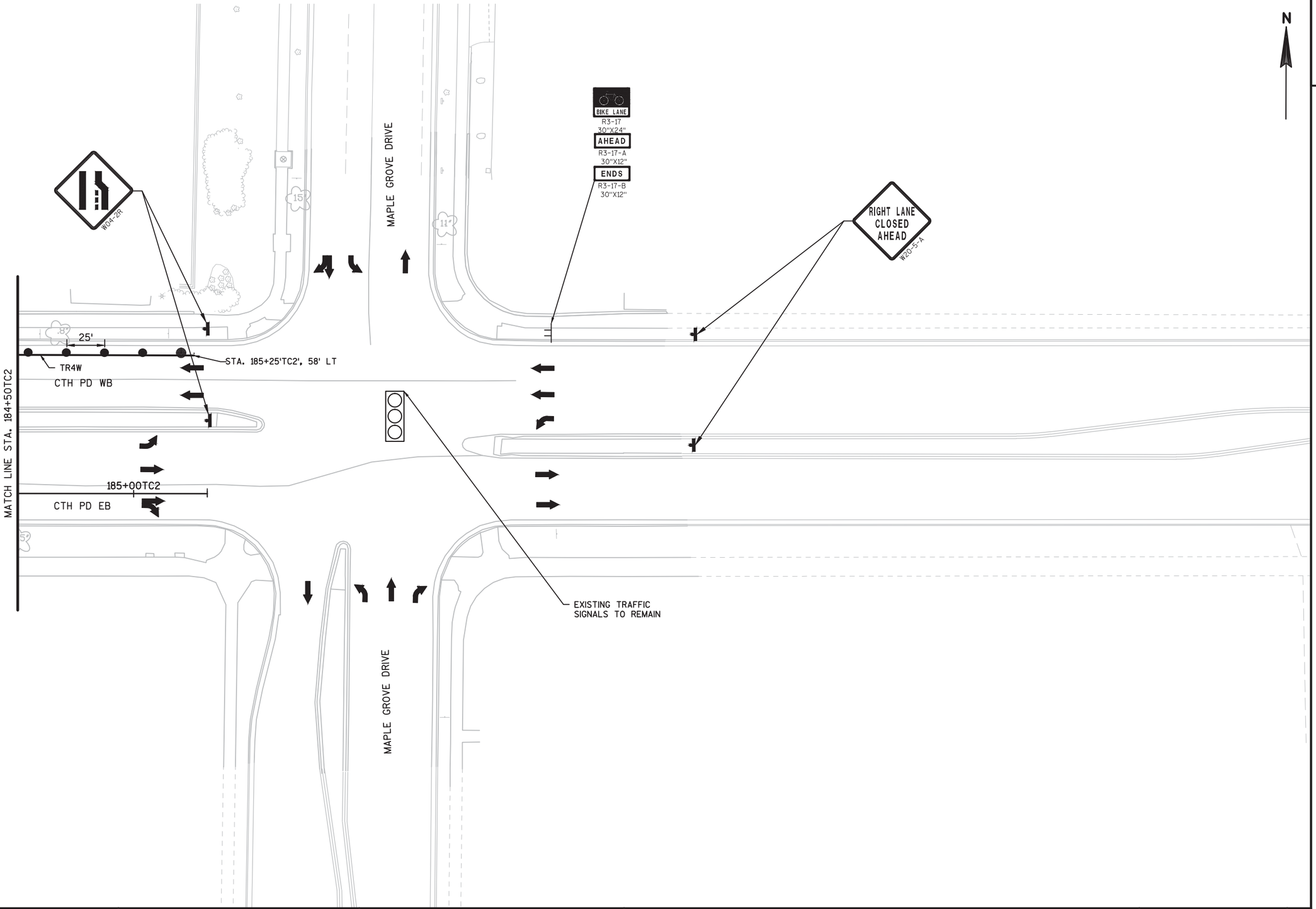
N



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2 (SHEET 2-15)	SHEET 274	E

2

N



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 2 (SHEET 2-16)	SHEET 275	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025002A_TC_STAGE 2A.DWG
LAYOUT NAME - 0250014
PLOT DATE : 10/17/2016 3:55 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

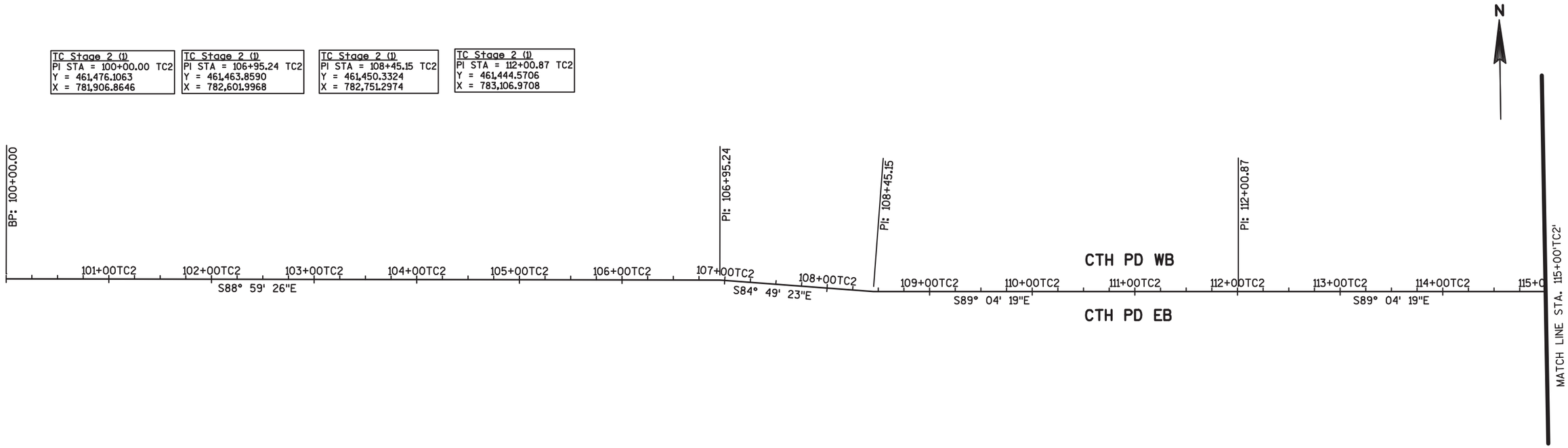
2

TC Stage 2 (1)
PI STA = 100+00.00 TC2
Y = 461,476.1063
X = 781,906.8646

TC Stage 2 (1)
PI STA = 106+95.24 TC2
Y = 461,463.8590
X = 782,601.9968

TC Stage 2 (1)
PI STA = 108+45.15 TC2
Y = 461,450.3324
X = 782,751.2974

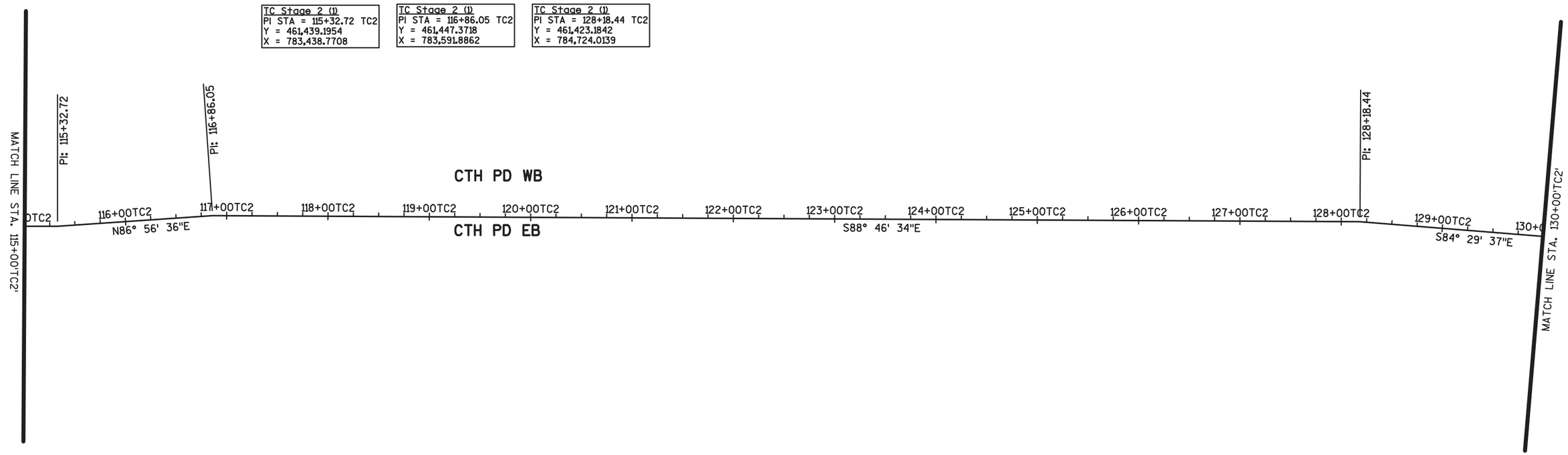
TC Stage 2 (1)
PI STA = 112+00.87 TC2
Y = 461,444.5706
X = 783,106.9708



TC Stage 2 (1)
PI STA = 115+32.72 TC2
Y = 461,439.1954
X = 783,438.7708

TC Stage 2 (1)
PI STA = 116+86.05 TC2
Y = 461,447.3718
X = 783,591.8862

TC Stage 2 (1)
PI STA = 128+18.44 TC2
Y = 461,423.1842
X = 784,724.0139



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL - ALIGNMENT DIAGRAM STAGE 2	SHEET 276	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\027201_AD - STAGE 2.DWG
LAYOUT NAME - 021202

PLOT DATE : 8/24/2016 3:50 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:100 FT

TC Stage 2 (1)
PI STA = 130+86.27 TC2
Y = 461,397.4839
X = 784,990.6091

TC Stage 2 (1)
PI STA = 132+62.82 TC2
Y = 461,393.7126
X = 785,167.1258

TC Stage 2 (1)
PI STA = 135+16.93 TC2
Y = 461,396.6256
X = 785,421.2144

TC Stage 2 (1)
PI STA = 136+64.01 TC2
Y = 461,404.4054
X = 785,568.0871

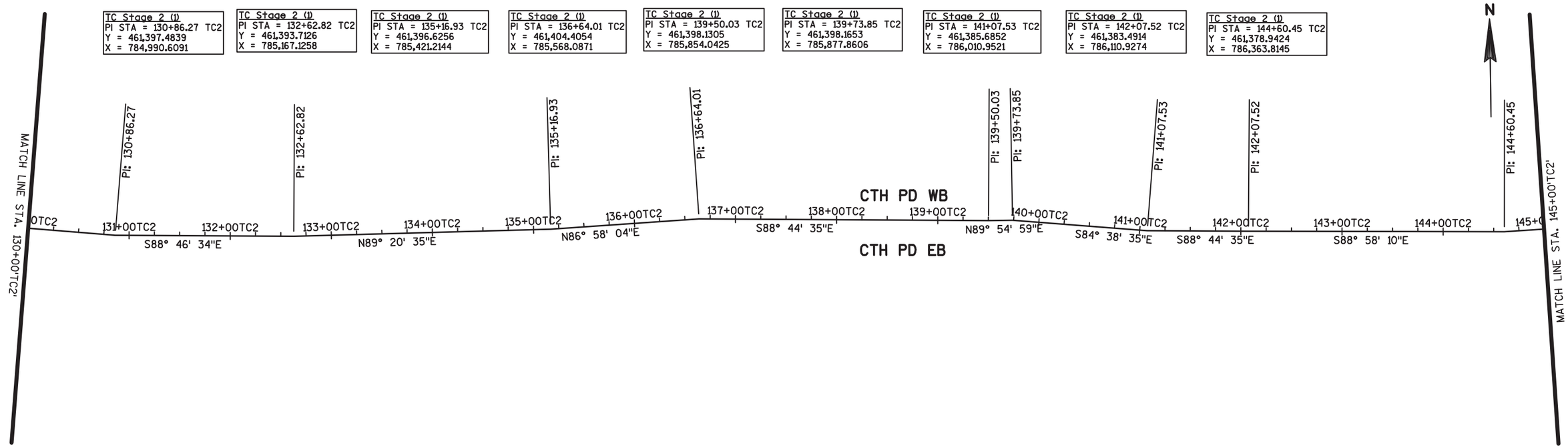
TC Stage 2 (1)
PI STA = 139+50.03 TC2
Y = 461,398.1305
X = 785,854.0425

TC Stage 2 (1)
PI STA = 139+73.85 TC2
Y = 461,398.1653
X = 785,877.8606

TC Stage 2 (1)
PI STA = 141+07.53 TC2
Y = 461,385.6852
X = 786,010.9521

TC Stage 2 (1)
PI STA = 142+07.52 TC2
Y = 461,383.4914
X = 786,110.9274

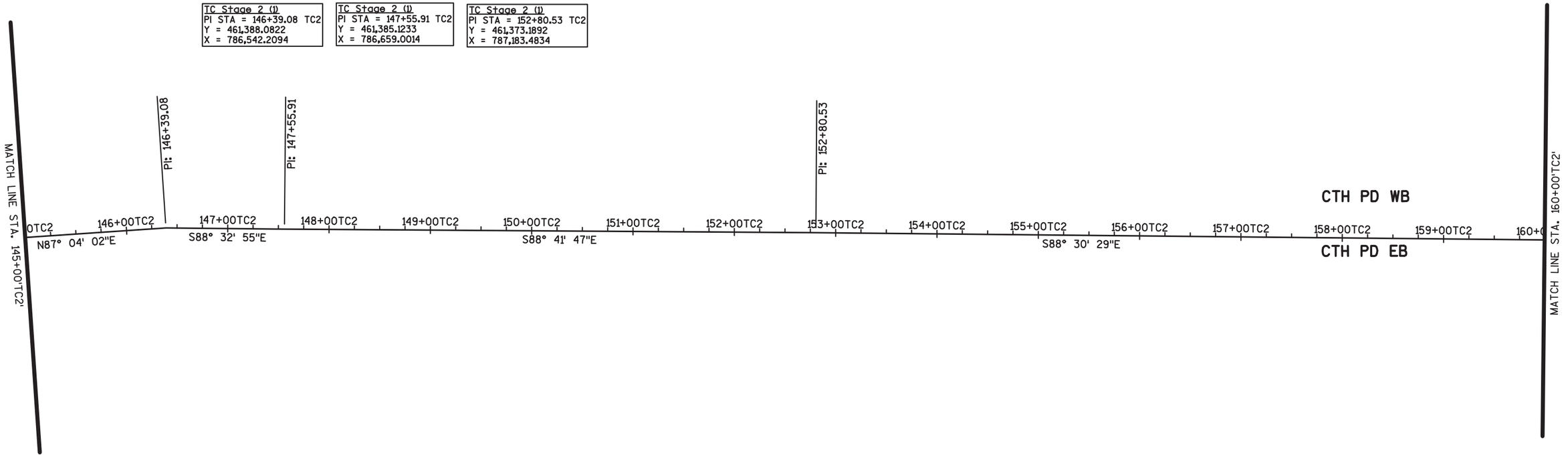
TC Stage 2 (1)
PI STA = 144+60.45 TC2
Y = 461,378.9424
X = 786,363.8145



TC Stage 2 (1)
PI STA = 146+39.08 TC2
Y = 461,388.0822
X = 786,542.2094

TC Stage 2 (1)
PI STA = 147+55.91 TC2
Y = 461,385.1233
X = 786,659.0014

TC Stage 2 (1)
PI STA = 152+80.53 TC2
Y = 461,373.1892
X = 787,183.4834



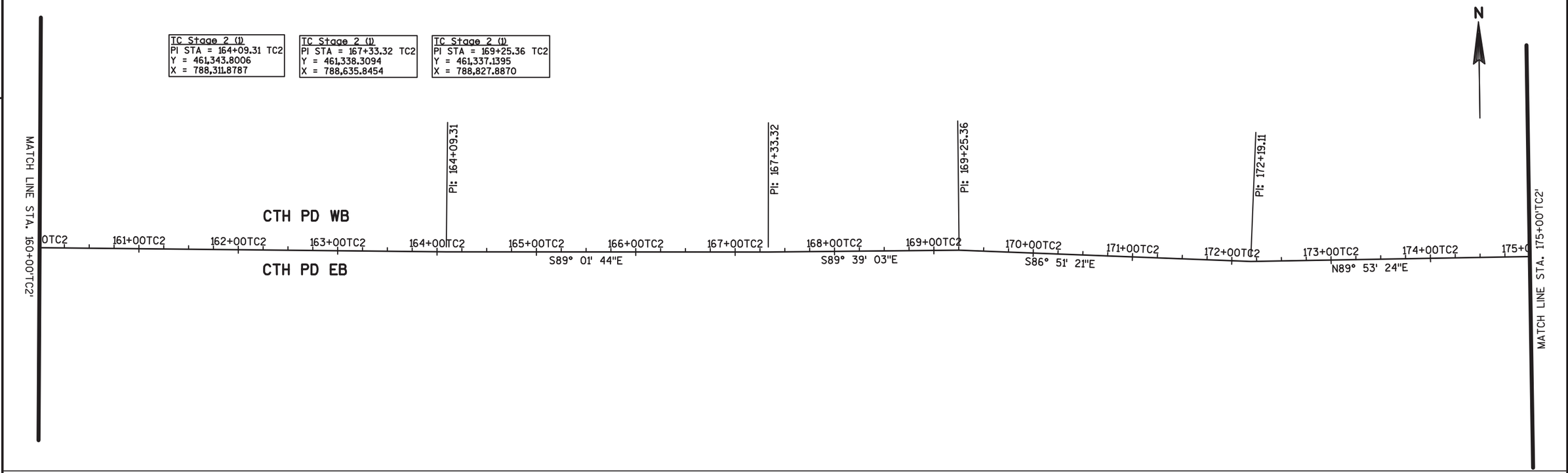
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL - ALIGNMENT DIAGRAM STAGE 2	SHEET 277	E

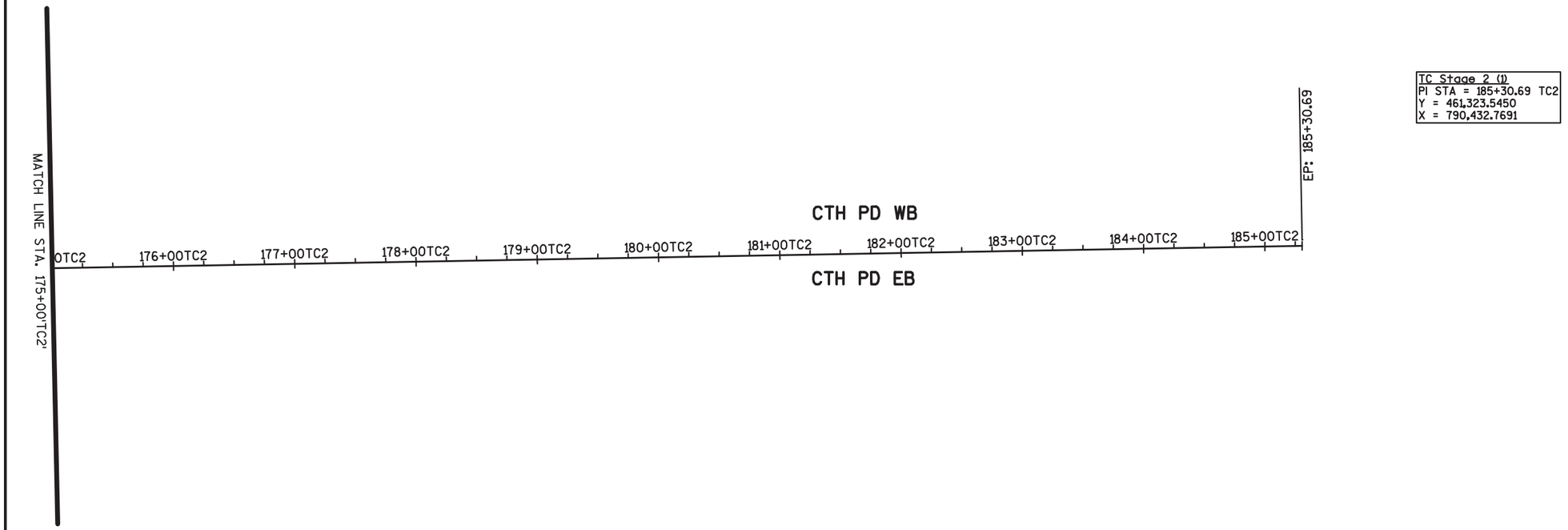
2

TC Stage 2 (1)
PI STA = 164+09.31 TC2
Y = 461,343.8006
X = 788,311.8787

TC Stage 2 (1)
PI STA = 167+33.32 TC2
Y = 461,338.3094
X = 788,635.8454

TC Stage 2 (1)
PI STA = 169+25.36 TC2
Y = 461,337.1395
X = 788,827.8870





TC Stage 2 (1)
PI STA = 185+30.69 TC2
Y = 461,323.5450
X = 790,432.7691

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL - ALIGNMENT DIAGRAM STAGE 2	SHEET 278	E

CTH PD-STAGE 3A/3B

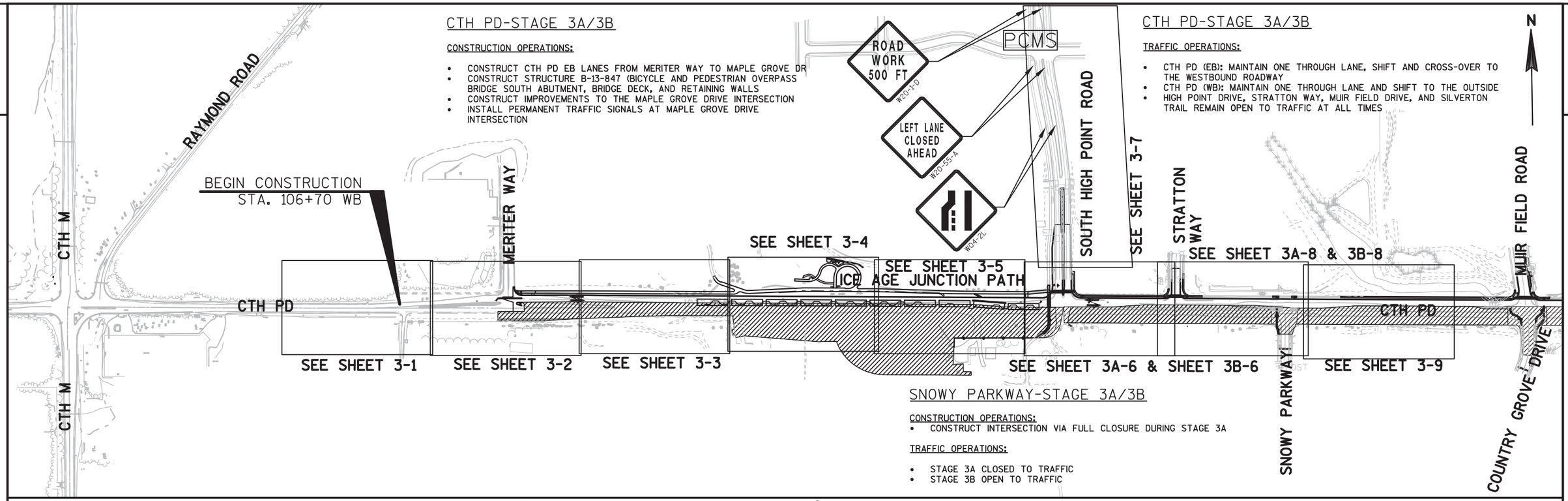
CONSTRUCTION OPERATIONS:

- CONSTRUCT CTH PD EB LANES FROM MERITER WAY TO MAPLE GROVE DR
- CONSTRUCT STRUCTURE B-13-847 (BICYCLE AND PEDESTRIAN OVERPASS BRIDGE SOUTH ABUTMENT, BRIDGE DECK, AND RETAINING WALLS
- CONSTRUCT IMPROVEMENTS TO THE MAPLE GROVE DRIVE INTERSECTION
- INSTALL PERMANENT TRAFFIC SIGNALS AT MAPLE GROVE DRIVE INTERSECTION

CTH PD-STAGE 3A/3B

TRAFFIC OPERATIONS:

- CTH PD (EB): MAINTAIN ONE THROUGH LANE, SHIFT AND CROSS-OVER TO THE WESTBOUND ROADWAY
- CTH PD (WB): MAINTAIN ONE THROUGH LANE AND SHIFT TO THE OUTSIDE
- HIGH POINT DRIVE, STRATTON WAY, MUIR FIELD DRIVE, AND SILVERTON TRAIL REMAIN OPEN TO TRAFFIC AT ALL TIMES



SNOWY PARKWAY-STAGE 3A/3B

CONSTRUCTION OPERATIONS:

- CONSTRUCT INTERSECTION VIA FULL CLOSURE DURING STAGE 3A

TRAFFIC OPERATIONS:

- STAGE 3A CLOSED TO TRAFFIC
- STAGE 3B OPEN TO TRAFFIC

COUNTRY GROVE DRIVE-STAGE 3A/3B

CONSTRUCTION OPERATIONS:

- CONSTRUCT INTERSECTION VIA FULL CLOSURE DURING STAGE 3B

TRAFFIC OPERATIONS:

- STAGE 3A OPEN TO TRAFFIC
- STAGE 3B CLOSED TO TRAFFIC

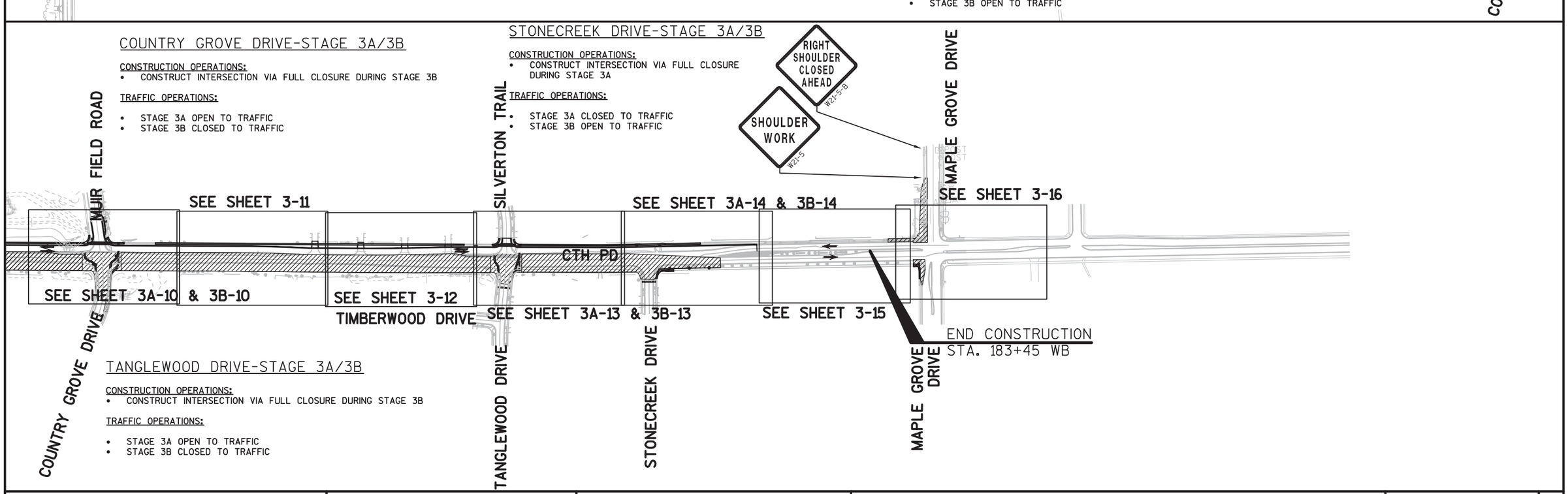
STONECREEK DRIVE-STAGE 3A/3B

CONSTRUCTION OPERATIONS:

- CONSTRUCT INTERSECTION VIA FULL CLOSURE DURING STAGE 3A

TRAFFIC OPERATIONS:

- STAGE 3A CLOSED TO TRAFFIC
- STAGE 3B OPEN TO TRAFFIC



TANGLEWOOD DRIVE-STAGE 3A/3B

CONSTRUCTION OPERATIONS:

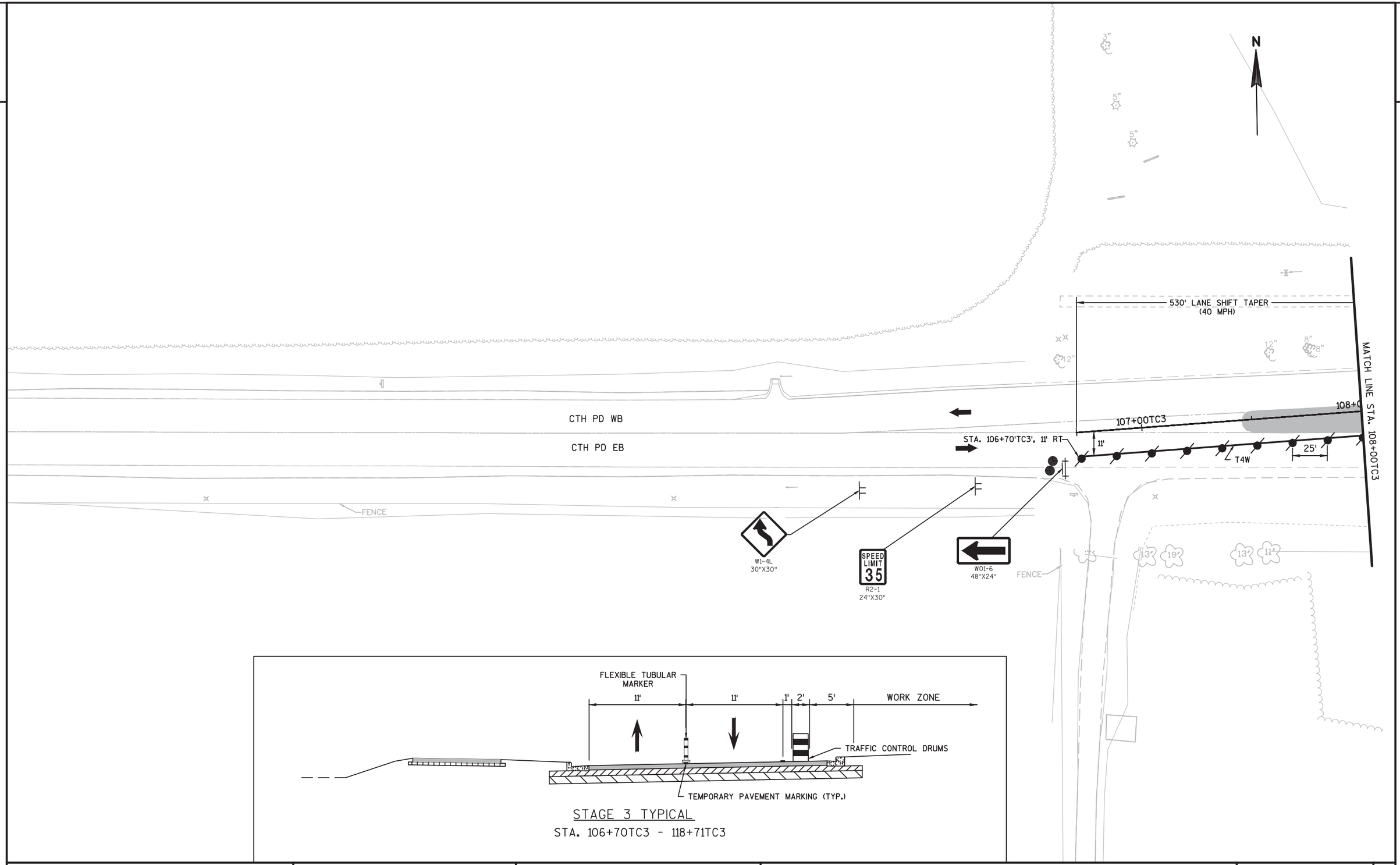
- CONSTRUCT INTERSECTION VIA FULL CLOSURE DURING STAGE 3B

TRAFFIC OPERATIONS:

- STAGE 3A OPEN TO TRAFFIC
- STAGE 3B CLOSED TO TRAFFIC

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL - STAGE 3/3A/3B OVERVIEW	SHEET 279	E

2



STAGE 3 TYPICAL

STA. 106+70TC3 - 118+71TC3

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3 (SHEET 3-1)	SHEET 280	E

2

N

MERITER WAY

SPEED LIMIT 35
R2-1
24"X30"

530' LANE SHIFT TAPER
(40 MPH)

STA. 110+68'TC3', 10' LT

STA. 111+61'TC3', 3' LT

STA. 109+34'TC3', 10' LT

25'

T4DY

11'

10'

11'

T8W

111+00TC3

110+00TC3

STA. 110+68'TC3', 0' RT

STA. 108+84'TC3', 0' LT

109+00TC3

STA. 109+34'TC3', 0'

T4W

T4Y

112+00TC3

11'

CTH PD WB

113+00TC3

T4DY

11'

CTH PD EB

STA. 112+02'TC3', 11' RT

MATCH LINE STA. 108+00TC3

0TC3

25'

ROAD CLOSED
R11-2
48"X30"

W01-6
48"X24"

ROAD CLOSED
R11-2
48"X30"

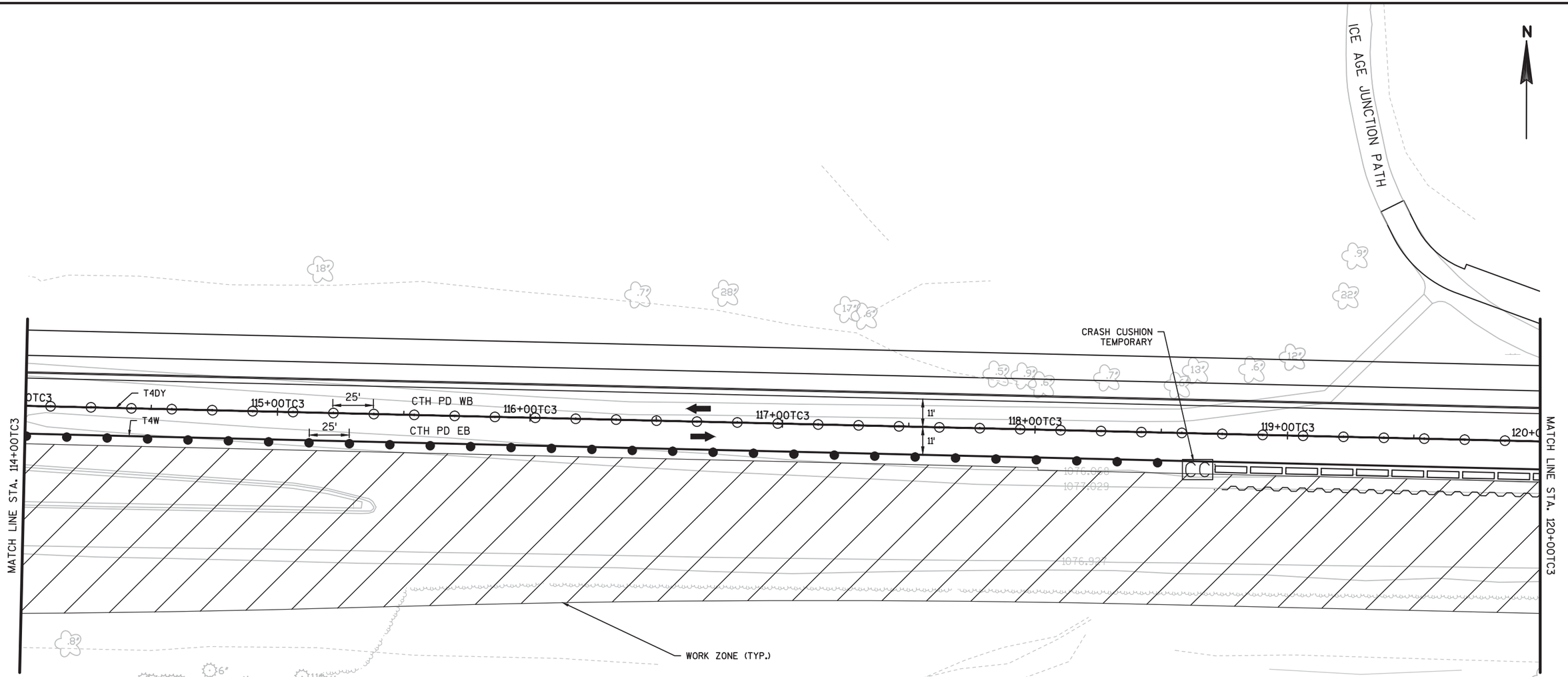
SPEED LIMIT 35
R2-1
24"X30"

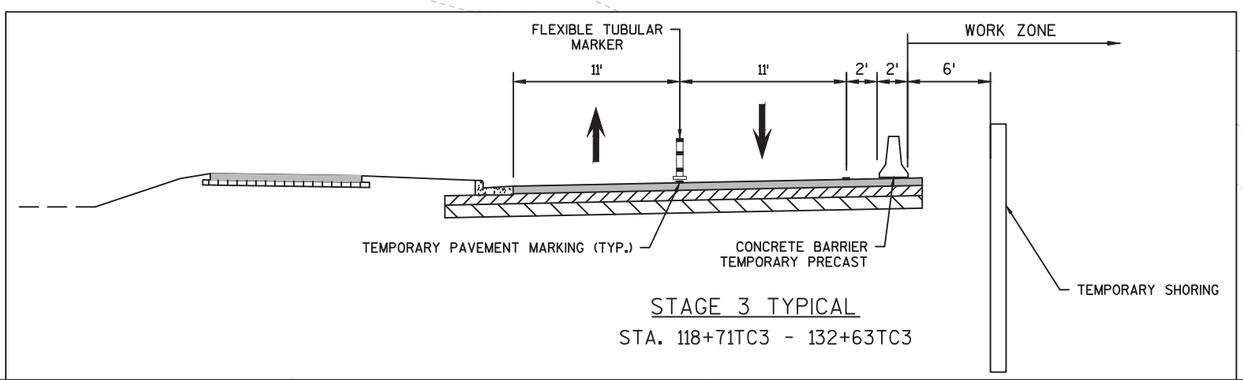
WORK ZONE (TYP.)

MATCH LINE STA. 114+00TC3

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3 (SHEET 3-2)	SHEET 281	E

2





STAGE 3 TYPICAL

STA. 118+71TC3 - 132+63TC3

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3 (SHEET 3-3)	SHEET 282	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025003A_TC_STAGE 3A.DWG
LAYOUT NAME - 025003
PLOT DATE : 10/17/2016 4:08 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

SIDEWALK CLOSED
R9-9
24" X18"

N

ICE AGE JUNCTION PATH

MATCH LINE STA. 120+00TC3

0TC3

T4DY

T4W

121+00TC3

25'

122+00TC3

11'

11'

123+00TC3

CTH PD WB

CTH PD EB

124+00TC3

125+00TC3

126+0

MATCH LINE STA. 126+00TC3

MAINTAIN ACCESS TO RESIDENCE AT ALL TIMES

W03-3

WORK ZONE (TYP.)

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3 (SHEET 3-4)	SHEET 283	E

2

N

W03-3

R3-8-A
36"X30"

R7-1-D
18"X24"

R2-1
24"X30"

133' LANE SHIFT TAPER
(40 MPH)

ICE AGE JUNCTION PATH

WORK ZONE (TYP.)

STA. 129+88'TC3', 0'

CTH PD WB

CTH PD EB

STA. 129+88'TC3', 11' RT

TR8W

STA. 131+21'TC3', 10' RT

T8W

T4DY

T4W

11'

10'

25'

127+00TC3

128+00TC3

129+00TC3

130+00TC3

131+00TC3

132+0

MATCH LINE STA. 126+00TC3

MATCH LINE STA. 132+00TC3

LEFT LANE
MUST
TURN LEFT

R3-7-L
30"X30"

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3 (SHEET 3-5)	SHEET 284	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025003A_TC_STAGE 3A.DWG
LAYOUT NAME - 025005

PLOT DATE : 10/17/2016 4:09 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

MATCH LINE STA. 21+50HP

N

LANE CLOSED
R11-2-L
48"X30"

TRAIL DETOUR TO FOLLOW
SOUTH HIGH POINT ROAD
TO STRATTON WAY
SEE "DETOUR PLAN"

TEMPORARY TRAFFIC
SIGNAL REQUIRED
(SEE DETAIL)

ICE AGE JUNCTION PATH

ONLY

SOUTH HIGH POINT ROAD

21+00HP

T4Y

T18W

T6W

T6W

T6W

STA. 20+57'HP', 9' RT

STA. 20+57'HP', 21' LT

NO PARKING ANY TIME
R7-1-D
18"X24"

SPEED LIMIT 35
R2-1
24"X30"

W01-6
48"X24"

T4DY

T8W

T18W

STA. 132+88'TC3', 0'

STA. 133+55'TC3', 21' RT

STA. 133+80'TC3', 33' RT

STA. 133+58'TC3', 33' RT

TEMPORARY CURB RAMP

CONCRETE BARRIER

T4W

ROAD CLOSED
R11-2
48"X30"

W1-4L
30"X30"

CONSTRUCT DRIVEWAY UNDER
FLAGGING OPERATIONS TO
MAINTAIN ACCESS AT ALL TIMES

ICE AGE JUNCTION
PATH ENTRANCE

PEDESTRIAN SAFETY FENCE
(TYP.)

ICE AGE JUNCTION PATH

MATCH LINE STA. 132+00TC3

133+00TC3

134+00TC3

135+00TC3

136+00TC3

137+00TC3

CTH PD WB

CTH PD EB

STA. 134+36'TC3', 10' RT

STA. 133+88'TC3', 21' RT

STA. 135+50'TC3', 21' RT

STA. 135+50'TC3', 10' RT

STA. 136+00'TC3', 0'

STA. 136+83'TC3', 0'

STA. 136+83'TC3', 11' RT

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

T4W

T4DY

11'

10'

25'

133' LANE SHIFT TAPER
(40 MPH)

WORK ZONE (TYP.)

R3-2
24"X24"

MATCH LINE STA. 137+50TC3

FLEXIBLE TUBULAR MARKER

8' LATERAL SEPARATION

11' 11' 1' 2' 5' WORK ZONE

TEMPORARY PAVEMENT MARKING (TYP.)

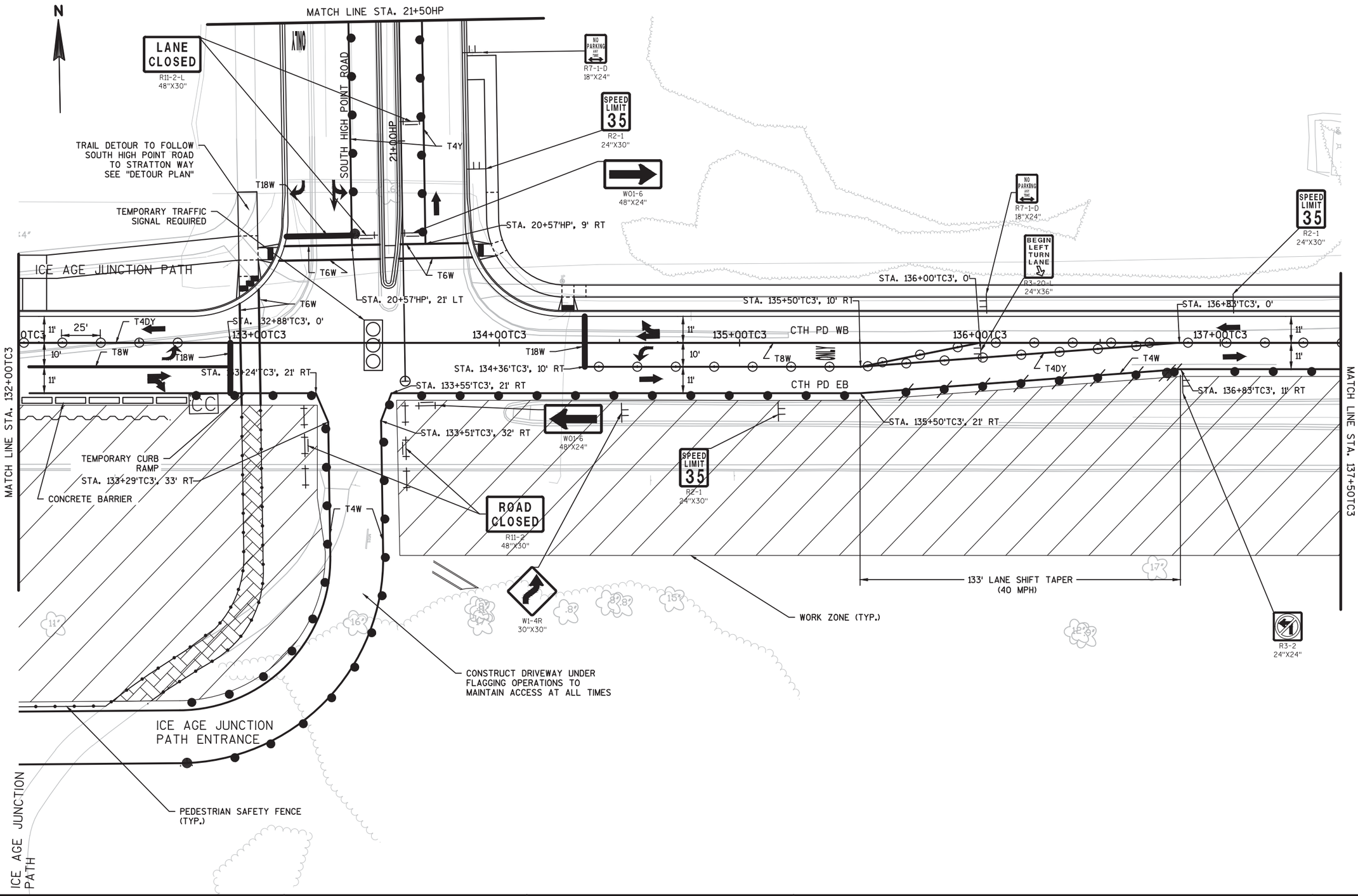
TRAFFIC CONTROL DRUMS

STAGE 3 TYPICAL

STA. 132+63TC3 - 176+10TC3

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3A (SHEET 3A-6)	SHEET 285	E

2



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL-STAGE 3B (SHEET 3B-6)	SHEET 286	E

2

N

MATCH LINE STA. 21+50HP

T4Y

25'

22+00HP

23+00HP

24+00HP

25+00HP

26+00HP

27+00HP

SOUTH HIGH POINT ROAD

STA. 24+67'HP', 10' RT

STA. 24+69'HP', 22' LT

STA. 25+14'HP', 23' LT

STA. 27+58'HP', 17' LT

LANE CLOSED
R11-2-L
48"X30"

W01-6
48"X24"

LANE CLOSED
R11-2-L
48"X30"

END ROAD WORK
G20-2A
48"X24"

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3 (SHEET 3-7)	SHEET 287	E

2

N

STOP
R1-1
30"X30"

POST

STRATTON WAY

W01-6
48"X24"

ROAD CLOSED
R11-2
48"X30"

T18W

T6W

NO PARKING ANY TIME
R7-1-D
18"X24"

SPEED LIMIT 35
R2-1
24"X30"

180' LANE SHIFT TAPER
(40 MPH)

ROAD CLOSED
R11-2
48"X30"

W01-6
48"X24"

138+00TC3

139+00TC3

CTH PD WB

CTH PD EB

T4DY

T4W

140+00TC3

141+00TC3

142+00TC3

143+00TC3

10'

11'

11'

25'

25'

STA. 141+25'TC3', 0'

STA. 141+25'TC3', 11' RT

STA. 143+05'TC3', 0'

STA. 143+05'TC3', 11' RT

MATCH LINE STA. 137+50TC3

MATCH LINE STA. 143+50TC3

WORK ZONE (TYP.)

NO PARKING ANY TIME
R7-1-D
18"X24"

SPEED LIMIT 35
R2-1
24"X30"

W24-1-R

R3-1
24"X24"

SIDEWALK CLOSED
CROSS HERE
R9-11-A
48"X24"

SNOWY PARKWAY

ROAD CLOSED
R11-2
48"X30"

SIDEWALK CLOSED
CROSS HERE
R9-11-A
24"X12"

TEMPORARY CURB RAMP

ROAD CLOSED AHEAD
W20-3-A

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3A (SHEET 3A-8)	SHEET 288	E

2

2

N

STOP
R1-1
30"X30"

STRATTON WAY

T18W

T6W

WO1-6
48"X24"

ROAD CLOSED
R11-2
48"X30"

NO PARKING ANY TIME
R7-1-D
18"X24"

SPEED LIMIT 35
R2-1
24"X30"

180' LANE SHIFT TAPER
(40 MPH)

MATCH LINE STA. 137+50TC3

138+00TC3

139+00TC3

140+00TC3

141+00TC3

142+00TC3

143+00TC3

25'

25'

T4DY

T4W

10'

11'

11'

CTH PD WB

CTH PD EB

STA. 140+14'TC3', 11' RT

STA. 140+98'TC3', 11' RT

STA. 140+98'TC3', 21' RT

STA. 141+25'TC3', 0'

STA. 141+25'TC3', 11' RT

T8W

TR4Y

STA. 142+08'TC3', 11' RT

STA. 142+70'TC3', 27' RT

STA. 143+04'TC3', 10' LT

STA. 143+05'TC3', 0'

MATCH LINE STA. 143+50TC3

W1-4L
30"X30"

PARK ZONE (TYP.)

NO PARKING ANY TIME
R7-1-D
18"X24"

W24-1-R

PEDESTRIAN SAFETY FENCE (TYP.)

SIDEWALK CLOSED CROSS HERE
R9-11-A
48"X24"

STA. 142+45'TC3', 85' RT

STOP
R1-1
30"X30"

STA. 142+73'TC3', 82' RT

SNOWY PARKWAY

ROAD CLOSED
R11-2
48"X30"

SIDEWALK CLOSED CROSS HERE
R9-11-A
24"X12"

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL-STAGE 3B (SHEET 3B-8)	SHEET 289	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025003B_TC_STAGE 3B.DWG
LAYOUT NAME - 025007

PLOT DATE : 10/17/2016 4:11 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

NO PARKING ANY TIME
R7-1-D
18"X24"

133' LANE SHIFT TAPER
(40 MPH)

STA. 144+06'TC3', 10' LT

STA. 145+38'TC3', 0' LT

11'

11'

144+00TC3

145+00TC3

25'

146+00TC3

T4DY

T4W

25'

147+00TC3

CTH PD WB

CTH PD EB

148+00TC3

11'

11'

149+00TC3

MATCH LINE STA. 143+50TC3

MATCH LINE STA. 149+50TC3

SPEED LIMIT 35
R2-1
24"X30"

NO PARKING ANY TIME
R7-1-D
18"X24"

W6-3
36"X36"

WORK ZONE (TYP.)

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3A (SHEET 3A-9)	SHEET 290	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025003A_TC_STAGE 3A.DWG
LAYOUT NAME - 025008

PLOT DATE : 10/17/2016 4:12 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

NO PARKING ANY TIME
R7-1-D
18"X24"

133' LANE SHIFT TAPER
(40 MPH)

MATCH LINE STA. 143+50TC3

11'
10'
11'

T8W

STA. 144+04'TC3', 10' LT

STA. 144+55'TC3', 6' LT

STA. 144+05'TC3', 0'

144+00TC3

145+00TC3

STA. 145+38'TC3', 0'

25'

25'

146+00TC3

147+00TC3

CTH PD WB

CTH PD EB

T4DY

T4W

148+00TC3

11'
11'

149+00TC3

MATCH LINE STA. 149+50TC3

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

SPEED LIMIT 35
R2-1
24"X30"

NO PARKING ANY TIME
R7-1-D
18"X24"

W6-3
36"X36"

WORK ZONE (TYP.)

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3B (SHEET 3B-9)	SHEET 291	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025003B_TC_STAGE 3B.DWG
LAYOUT NAME - 025007

PLOT DATE : 10/17/2016 4:13 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

2

2

N

STA. 152+02'TC3', 152' LT

B-13-0848 BADGER MILL CREEK BOX CULVERT

NO PARKING ANYTIME
R7-1-D
18"X24"

STOP
R1-1
30"X30"

T8W

MUIR FIELD DRIVE

T4Y

STA. 152+32'TC3', 29' LT

STA. 152+21'TC3', 29' LT

SPEED LIMIT 35
R2-1
24"X30"

T18W

T6W

STA. 152+87'TC3', 0'

T4DY

150+00TC3

25'

151+00TC3

152+00TC3

153+00TC3

154+00TC3

CTH PD WB

155+00TC3

11'

11'

10'

11'

T4W

25'

STA. 150+15'TC3', 11' RT

STA. 150+65'TC3', 11' RT

T8W

STA. 151+65'TC3', 0'

STA. 151+65'TC3', 11' RT

STA. 54+41'CM', 26' RT

T18W

CTH PD EB

T4W

MATCH LINE STA. 149+50TC3

MATCH LINE STA. 155+50TC3

STA. 150+65'TC3', 21' RT

ROAD CLOSED
R11-2
48"X30"

STA. 54+41'CM', 0'

TR4W

ROAD CLOSED
R11-2
48"X30"

SPEED LIMIT 35
R2-1
24"X30"

T8W

STOP
R1-1
30"X30"

NO PARKING ANYTIME
R7-1-D
18"X24"

PEDESTRIAN SAFETY FENCE (TYP.)

T4Y

STA. 53+64'CM', 15' LT

STA. 53+73'CM', 26' RT

WORK ZONE (TYP.)

COUNTRY GROVE DRIVE

STA. 52+75'CM', 11' RT

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL-STAGE 3A (SHEET 3A-10)	SHEET 292	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025003A_TC_STAGE 3A.DWG
LAYOUT NAME - 025009

PLOT DATE : 10/17/2016 4:14 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

STA. 56+21'CM', 11' LT

T4Y

T8W

56+00CM

NO PARKING ANY TIME
R7-1-D
18"X24"

STOP
R1-1
30"X30"

MUIR FIELD ROAD

B-13-0848 BADGER MILL CREEK BOX CULVERT

SPEED LIMIT 35
R2-1
24"X30"

55+00CM

STA. 54+95'CM', 0'

ROAD CLOSED
R11-2
48"X30"

T18W

T6W

STA. 152+87'TC3', 0'

STA. 151+65'TC3', 0'

T4DY

150+00TC3

25'

CTH PD WB

151+00TC3

11'

152+00TC3

153+00TC3

11'

T4DY

154+00TC3

155+00TC3

T4DY

T4W

25'

CTH PD EB

11'

MATCH LINE STA. 149+50 TC3

MATCH LINE STA. 155+50 TC3

SPEED LIMIT 35
R2-1
24"X30"

54+00CM

NO PARKING ANY TIME
R7-1-D
18"X24"

PEDESTRIAN SAFETY FENCE (TYP.)

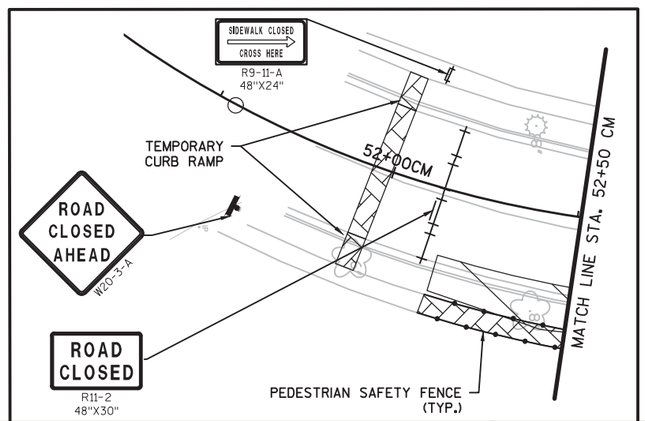
WORK ZONE (TYP.)

SIDEWALK CLOSED CROSS HERE
R9-11-A
48"X24"

53+00CM

COUNTRY GROVE DRIVE

MATCH LINE STA. 52+50 CM



PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL-STAGE 3B (SHEET 3B-10)	SHEET 293	E

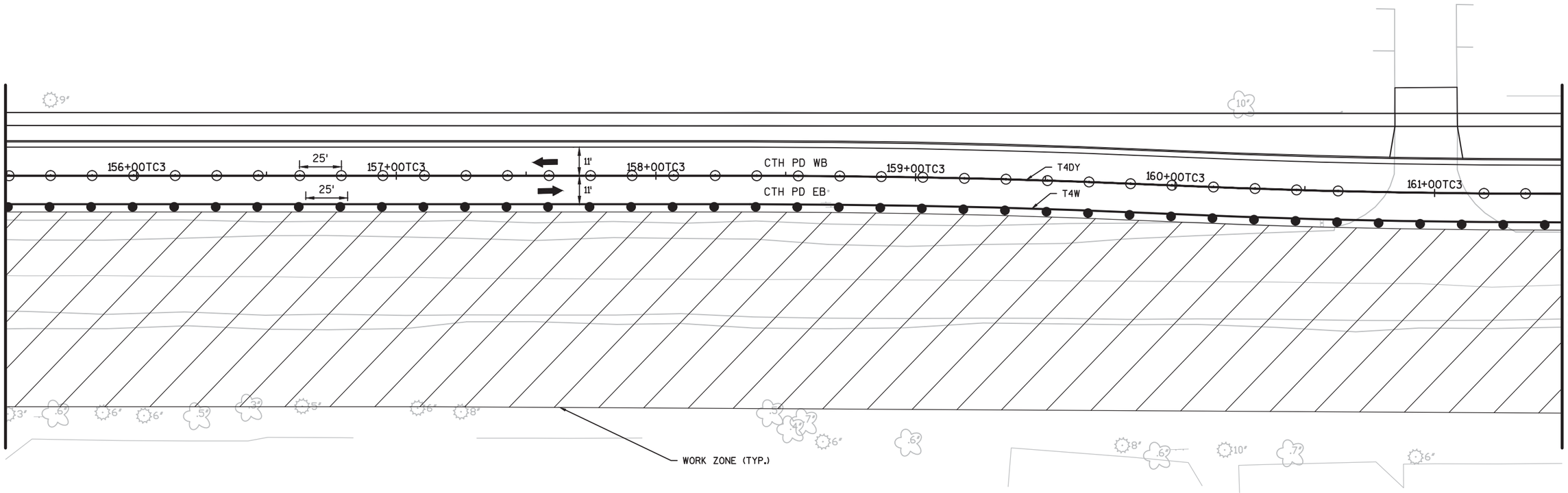
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025003B_TC_STAGE 3B.DWG
LAYOUT NAME - 025009

PLOT DATE : 10/17/2016 4:14 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

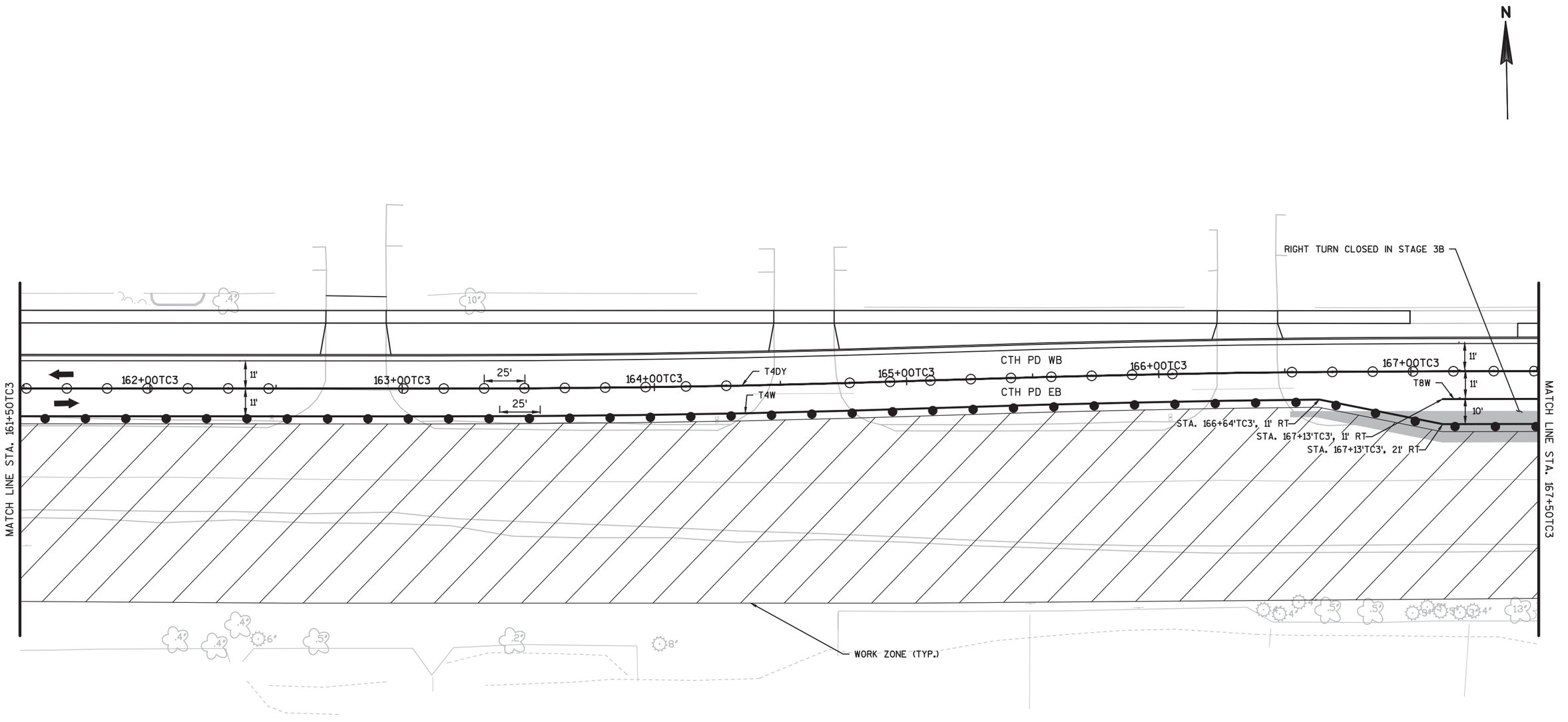
N



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3 (SHEET 3-11)	SHEET 294	E

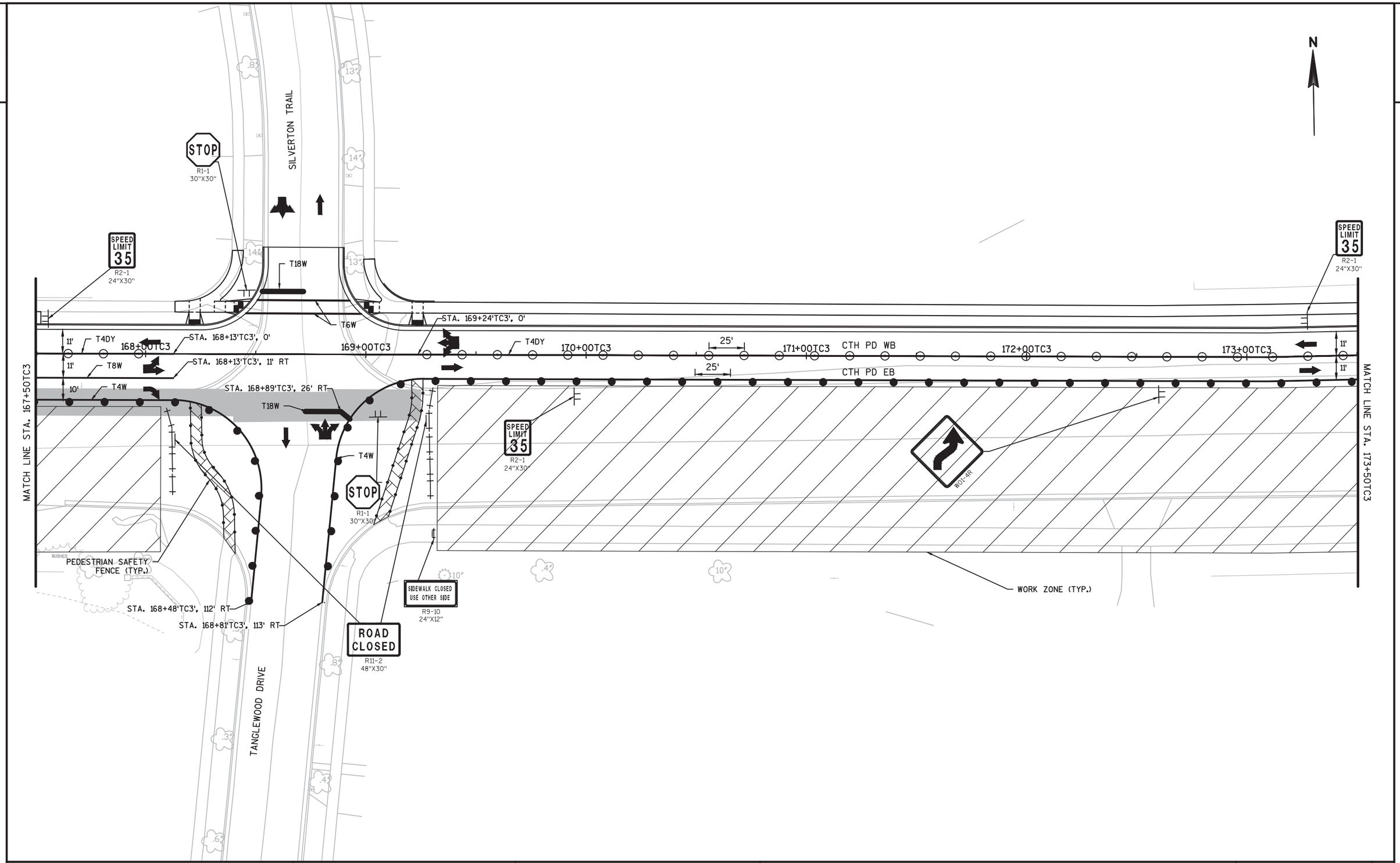
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025003A_TC_STAGE 3A.DWG
LAYOUT NAME - 0250010
PLOT DATE : 10/17/2016 4:16 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3 (SHEET 3-12)	SHEET 295	E

2



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3A (SHEET 3A-13)	SHEET 296	E

2

N

STOP
R1-1
30"X30"

SILVERTON TRAIL

ROAD CLOSED
R11-2
48"X30"

SPEED LIMIT 35
R2-1
24"X30"

SPEED LIMIT 35
R2-1
24"X30"

T18W

T6W

T4DY

11'

11'

168+00TC3

169+00TC3

11'

11'

170+00TC3

T4DY CTH PD WB

T4W

CTH PD EB

171+00TC3

25'

25'

172+00TC3

173+00TC3

11'

11'

MATCH LINE STA. 167+50 TC3

MATCH LINE STA. 173+50 TC3

STA. 168+13'TC3', 0'

STA. 169+24'TC3', 0'

SPEED LIMIT 35
R2-1
24"X30"

W01-4R

WORK ZONE (TYP.)

PEDESTRIAN SAFETY FENCE (TYP.)

SIDEWALK CLOSED CROSS HERE
R9-11-A
48"X24"

SIDEWALK CLOSED CROSS HERE
R9-11-A
48"X24"

TEMPORARY CURB RAMP

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED AHEAD
W20-3-A

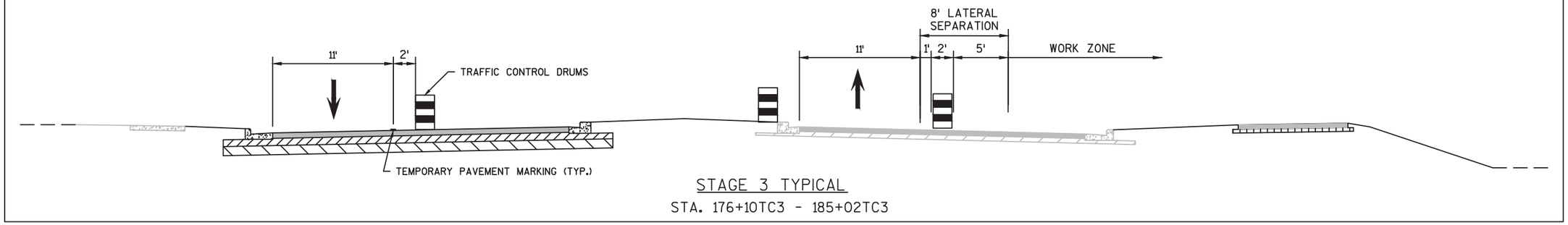
TANGLEWOOD DRIVE

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL-STAGE 3B (SHEET 3B-13)	SHEET 297	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025003B_TC_STAGE 3B.DWG
LAYOUT NAME - 0250012

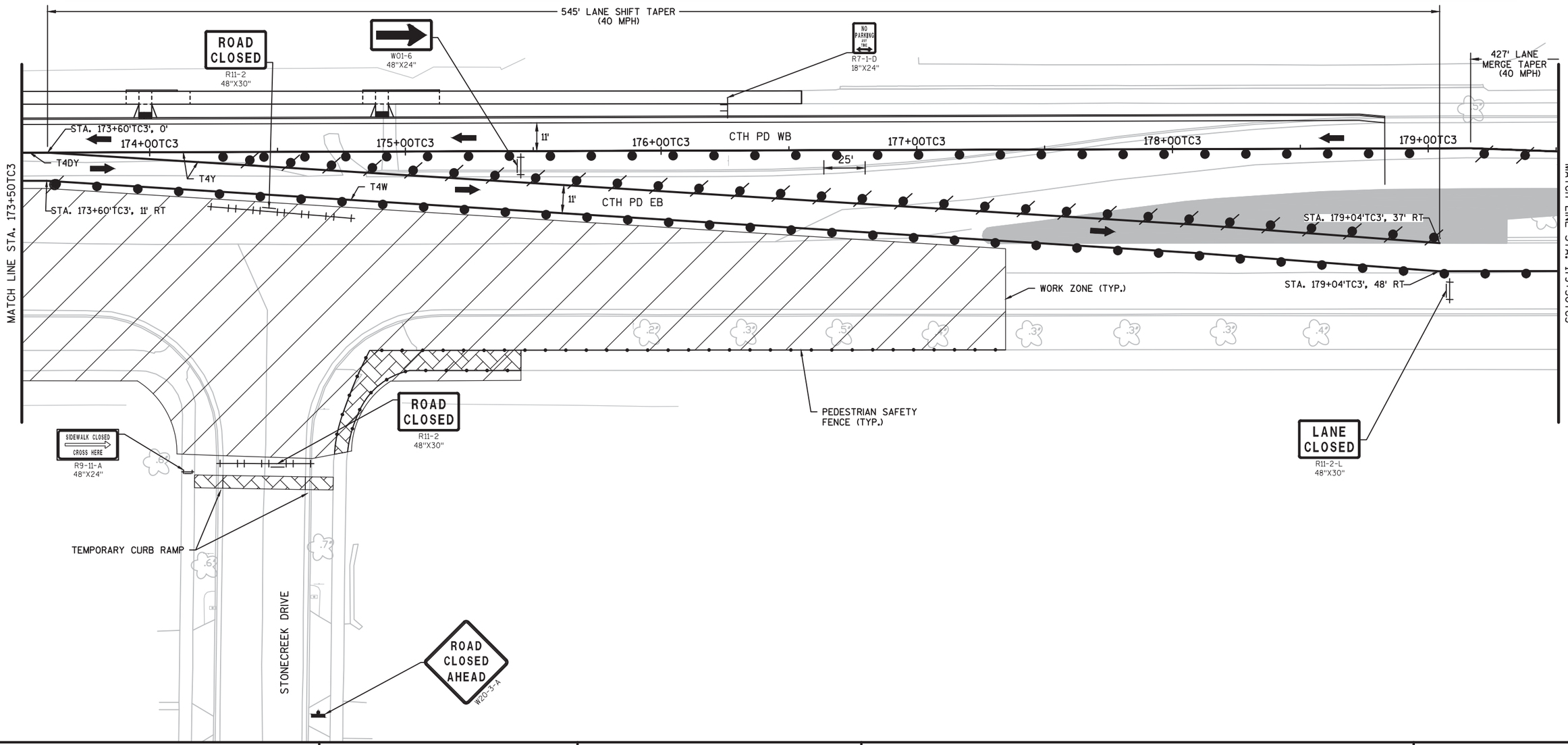
PLOT DATE : 10/17/2016 4:17 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



STAGE 3 TYPICAL

STA. 176+10TC3 - 185+02TC3



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3A (SHEET 3A-14)	SHEET 298	E

2

N

ROAD CLOSED
R11-2
48"X30"

T4DY

450' LANE SHIFT TAPER
(40 MPH)

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

NO PARKING ANY TIME
R7-1-D
18"X24"

427' LANE MERGE TAPER
(40 MPH)

MATCH LINE STA. 173+50TC3

STA. 173+60'TC3', 0'

174+00TC3

STA. 175+03'TC3', 0'

175+00TC3

STA. 176+12'TC3', 0' LT

176+00TC3

STA. 176+62'TC3', 0'

177+00TC3

CTH PD WB

178+00TC3

179+00TC3

11'

10'

25'

T4Y

STA. 175+12'TC3', 10' RT

STA. 176+12'TC3', 10' RT

STA. 174+63'TC3', 29' RT

T18W

T4W

CTH PD EB

STA. 179+04'TC3', 37' RT

STA. 179+04'TC3', 48' RT

SPEED LIMIT 35
R2-1
24"X30"

WORK ZONE (TYP.)

MATCH LINE STA. 179+50TC3

SIDEWALK CLOSED CROSS HERE
R9-11-A
48"X24"

STA. 173+60'TC3', 11' RT

STA. 174+29'TC3', 93' RT

STOP
R1-1
30"X30"

STA. 174+61'TC3', 92' RT

W01-6
48"X24"

PEDESTRIAN SAFETY FENCE (TYP.)

95' LANE SHIFT TAPER
(40 MPH)

LANE CLOSED
R11-2-L
48"X30"

STONECREEK WAY

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3B (SHEET 3B-14)	SHEET 299	E

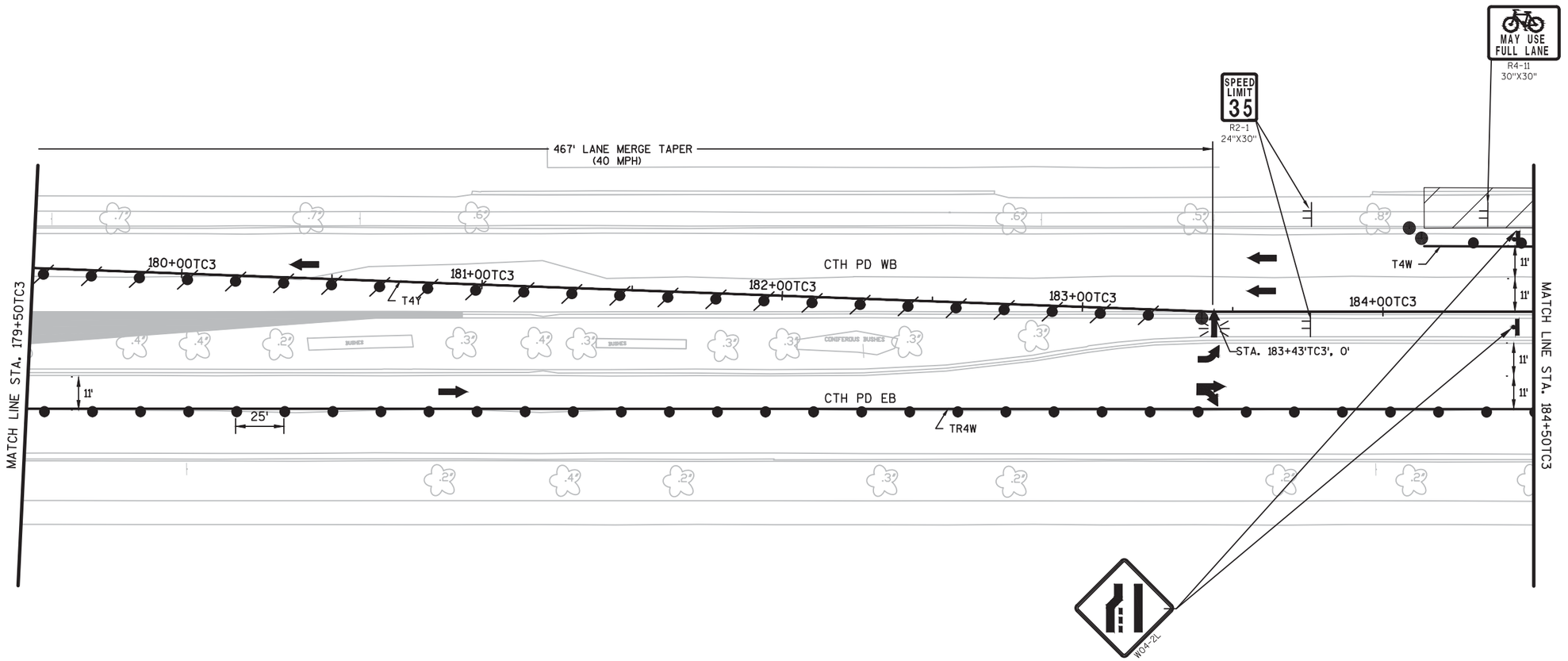
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025003B_TC_STAGE 3B.DWG
LAYOUT NAME - 0250013

PLOT DATE : 10/17/2016 4:18 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3 (SHEET 3-15)	SHEET 300	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025003A_TC_STAGE 3A.DWG
LAYOUT NAME - 0250014
PLOT DATE : 10/17/2016 4:20 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

MATCH LINE STA. 184+50TC3

MAY USE FULL LANE
R4-11
30"X30"

LANE CLOSED
R11-2-L
48"X30"

25'

11' 11'

11' 11'

185+00TC3

WORK ZONE (TYP.)

STA. 20+19'MG', 45' LT

T4W

STA. 22+01'MG', 59' LT

MAINTAIN ACCESS TO BUSINESS AT ALL TIMES

N

18.5' LANE SHIFT TAPER
(25 MPH)

SIDEWALK CLOSED
R9-9
24"X12"

STA. 24+61'MG', 21' LT

STA. 24+80'MG', 25' LT

11'

10'

21+00MG

22+00MG

23+00MG

24+00MG

25+00MG

MAPLE GROVE DRIVE

MAPLE GROVE DRIVE

TEMPORARY TRAFFIC SIGNALS REQUIRED (SEE DETAIL)

BIKE LANE
R3-17
30"X24"
AHEAD
R3-17-A
30"X12"
ENDS
R3-17-B
30"X12"

LEFT LANE CLOSED AHEAD
W20-5S-A

CTH PD EB

CTH PD WB

TRAFFIC CONTROL DRUMS

WORK ZONE

1' 0-11' 11'

TEMPORARY PAVEMENT MARKING (TYP.)

STAGE 3 TYPICAL

STA. 20+49MD - 21+34MD

WORK ZONE

1' 11' 10' 21'

TEMPORARY PAVEMENT MARKING (TYP.)

TRAFFIC CONTROL DRUMS

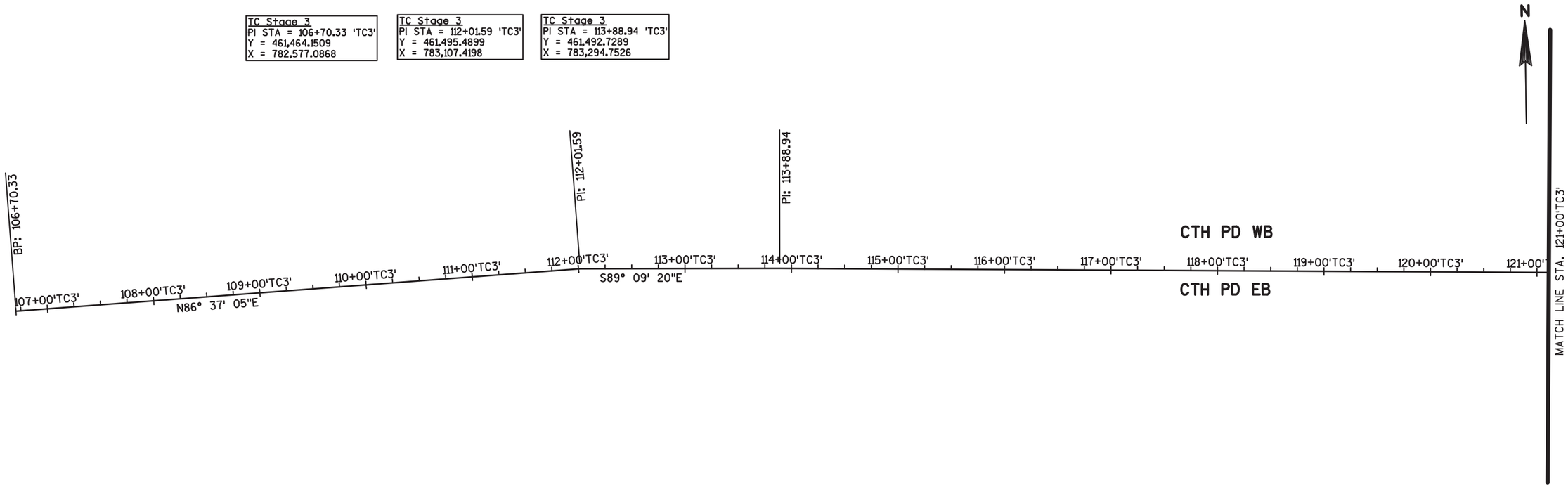
STAGE 3 TYPICAL

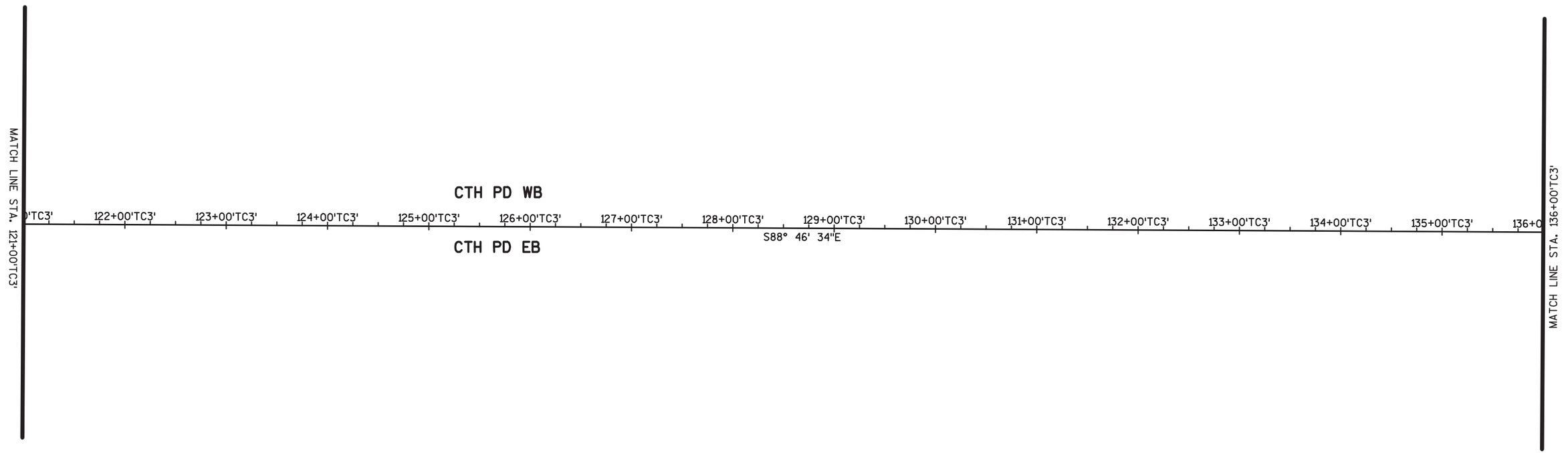
STA. 22+00MD - 24+61MD

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 3 (SHEET 3-16)	SHEET 301	E

2

TC Stage 3	TC Stage 3	TC Stage 3
PI STA = 106+70.33 'TC3'	PI STA = 112+01.59 'TC3'	PI STA = 113+88.94 'TC3'
Y = 461,464.1509	Y = 461,495.4899	Y = 461,492.7289
X = 782,577.0868	X = 783,107.4198	X = 783,294.7526



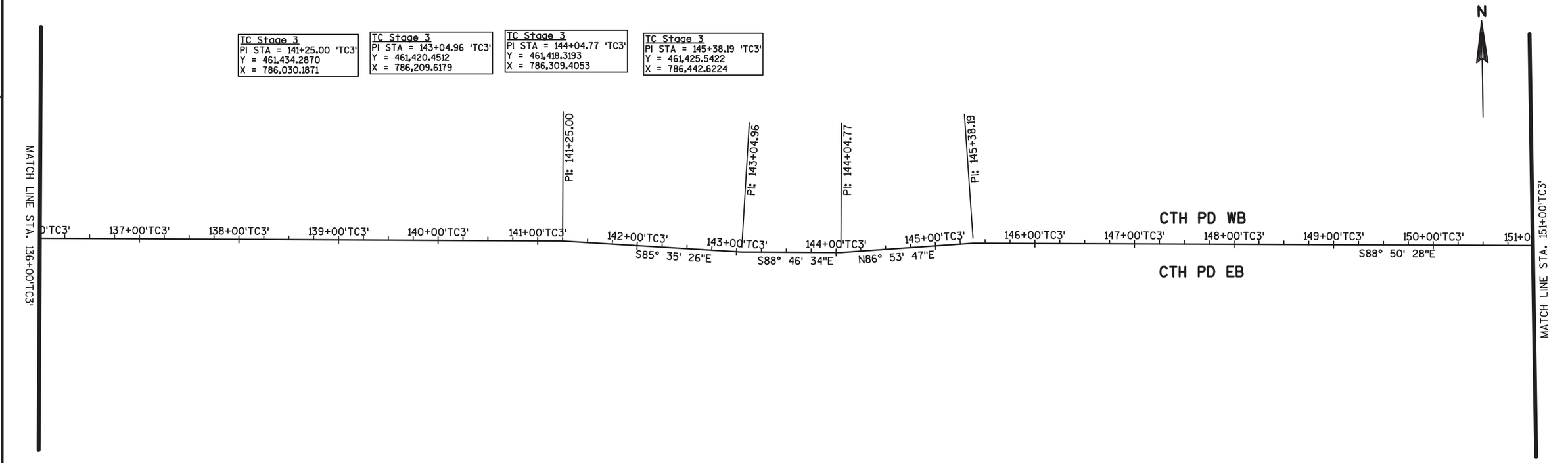


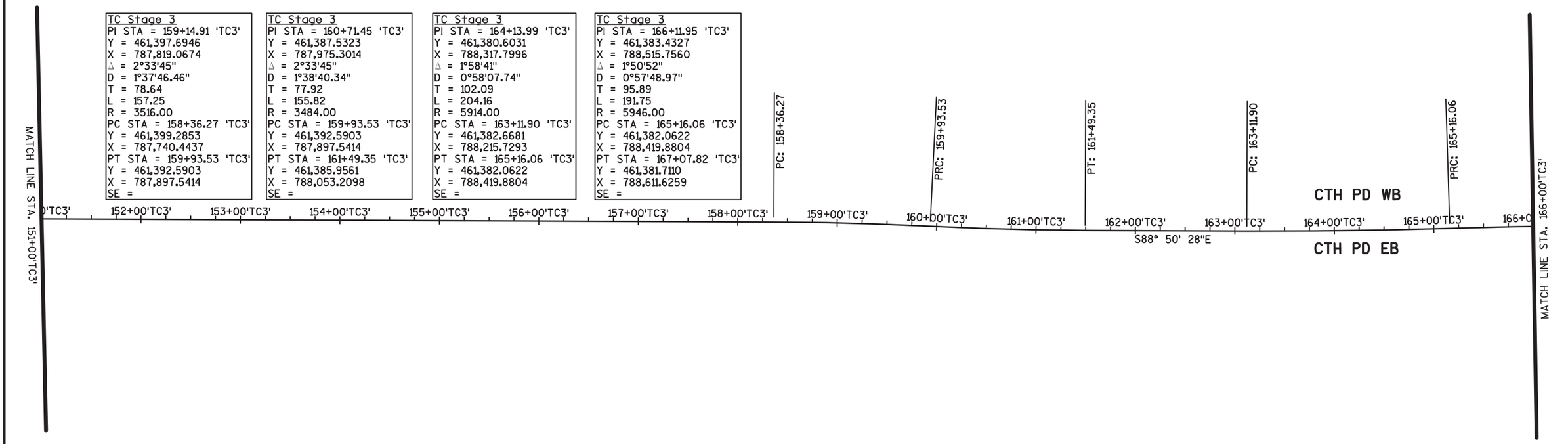
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL - ALIGNMENT DIAGRAM STAGE 3	SHEET 302	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\027201_AD - STAGE 3.DWG
LAYOUT NAME - 021202

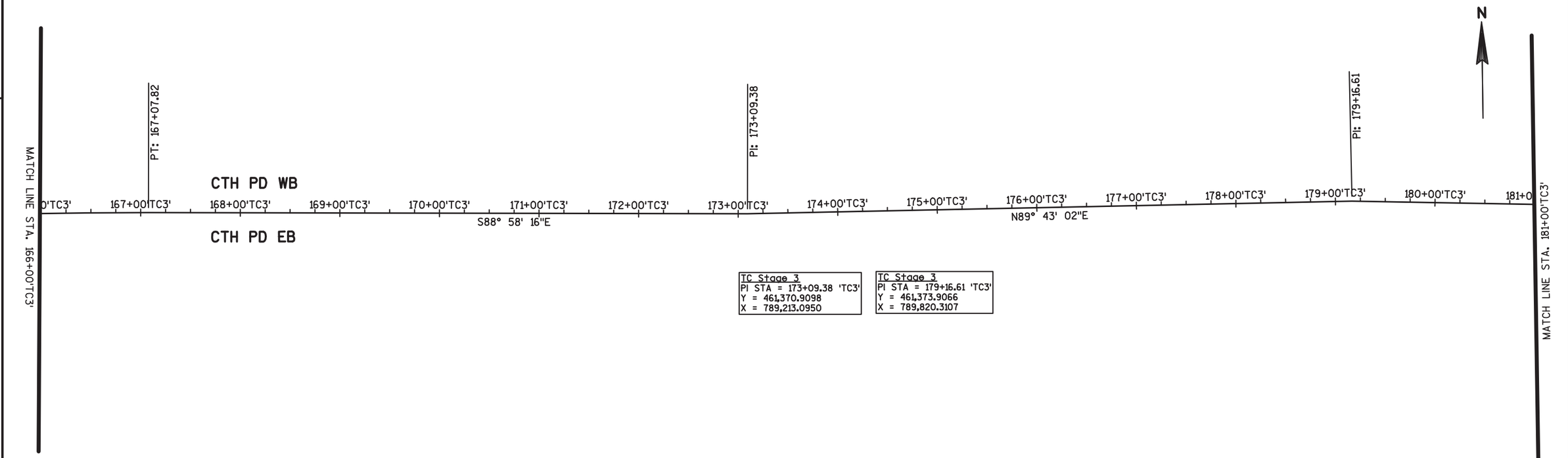
PLOT DATE : 8/24/2016 3:51 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



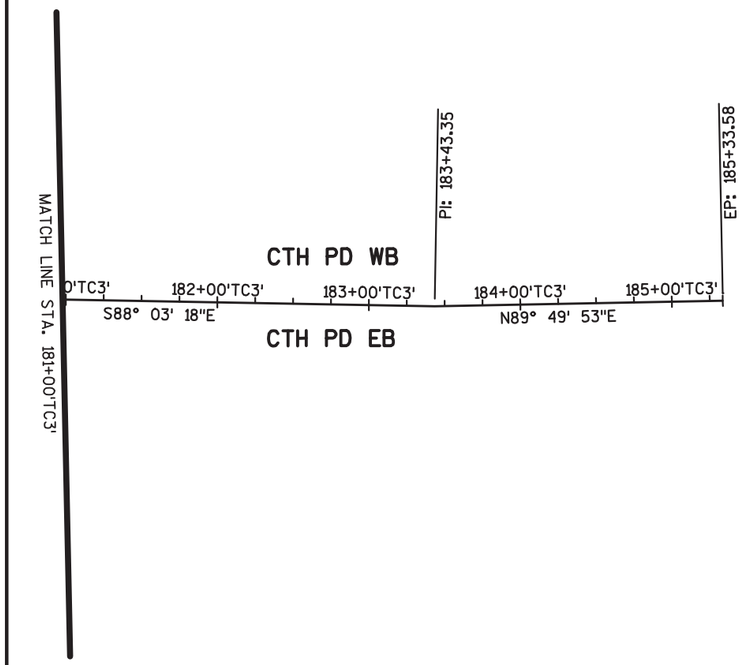


PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL - ALIGNMENT DIAGRAM STAGE 3	SHEET 303	E



TC Stage 3
PI STA = 173+09.38 'TC3'
Y = 461,370.9098
X = 789,213.0950

TC Stage 3
PI STA = 179+16.61 'TC3'
Y = 461,373.9066
X = 790,820.3107



TC Stage 3
PI STA = 185+33.57 'TC3'
Y = 461,359.9831
X = 790,437.0311

TC Stage 3
PI STA = 183+43.35 'TC3'
Y = 461,359.4229
X = 790,246.8084

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL - ALIGNMENT DIAGRAM STAGE 3	SHEET 304	E

CTH PD-STAGE 4

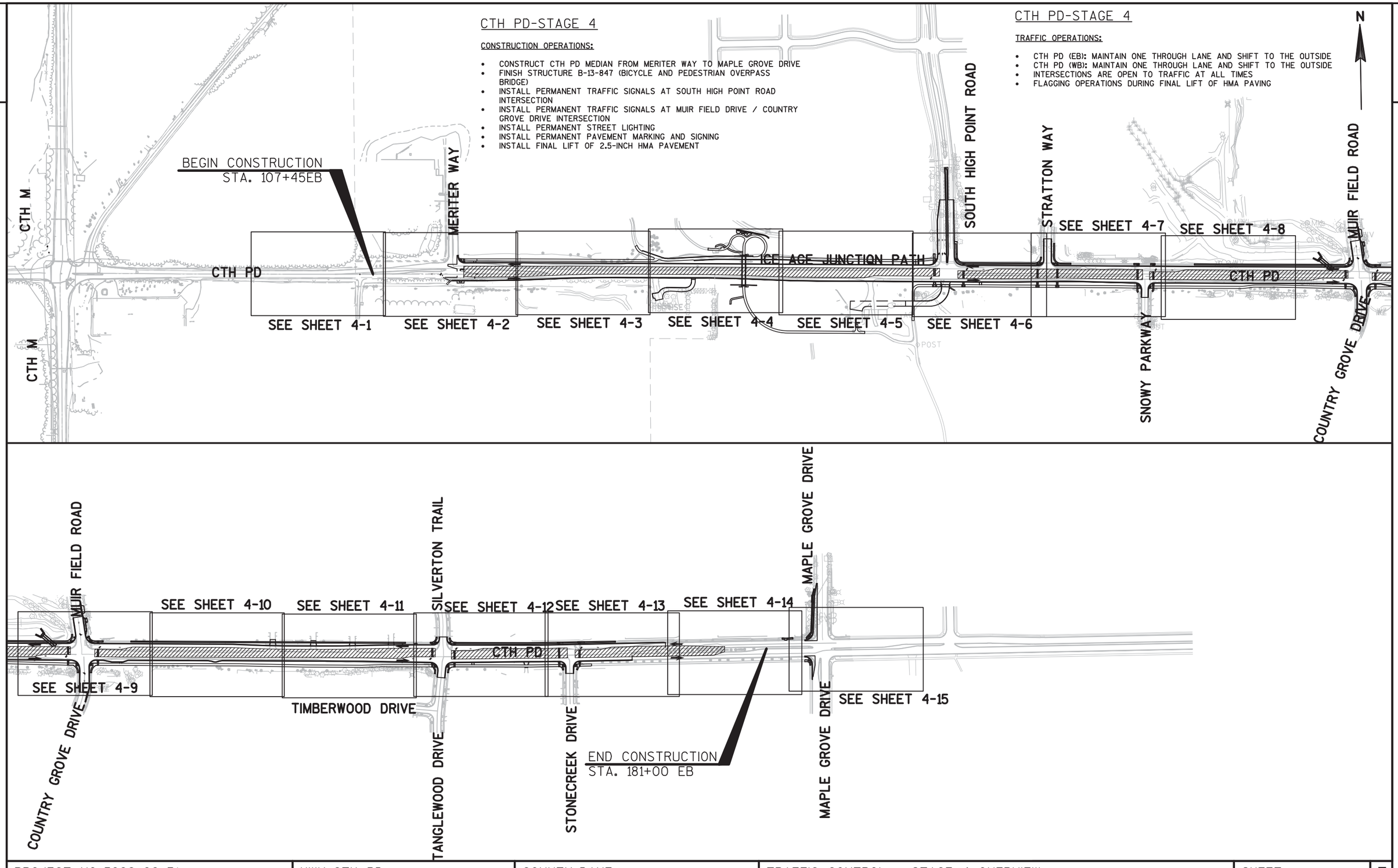
CONSTRUCTION OPERATIONS:

- CONSTRUCT CTH PD MEDIAN FROM MERITER WAY TO MAPLE GROVE DRIVE
- FINISH STRUCTURE B-13-847 (BICYCLE AND PEDESTRIAN OVERPASS BRIDGE)
- INSTALL PERMANENT TRAFFIC SIGNALS AT SOUTH HIGH POINT ROAD INTERSECTION
- INSTALL PERMANENT TRAFFIC SIGNALS AT MUIR FIELD DRIVE / COUNTRY GROVE DRIVE INTERSECTION
- INSTALL PERMANENT STREET LIGHTING
- INSTALL PERMANENT PAVEMENT MARKING AND SIGNING
- INSTALL FINAL LIFT OF 2.5-INCH HMA PAVEMENT

CTH PD-STAGE 4

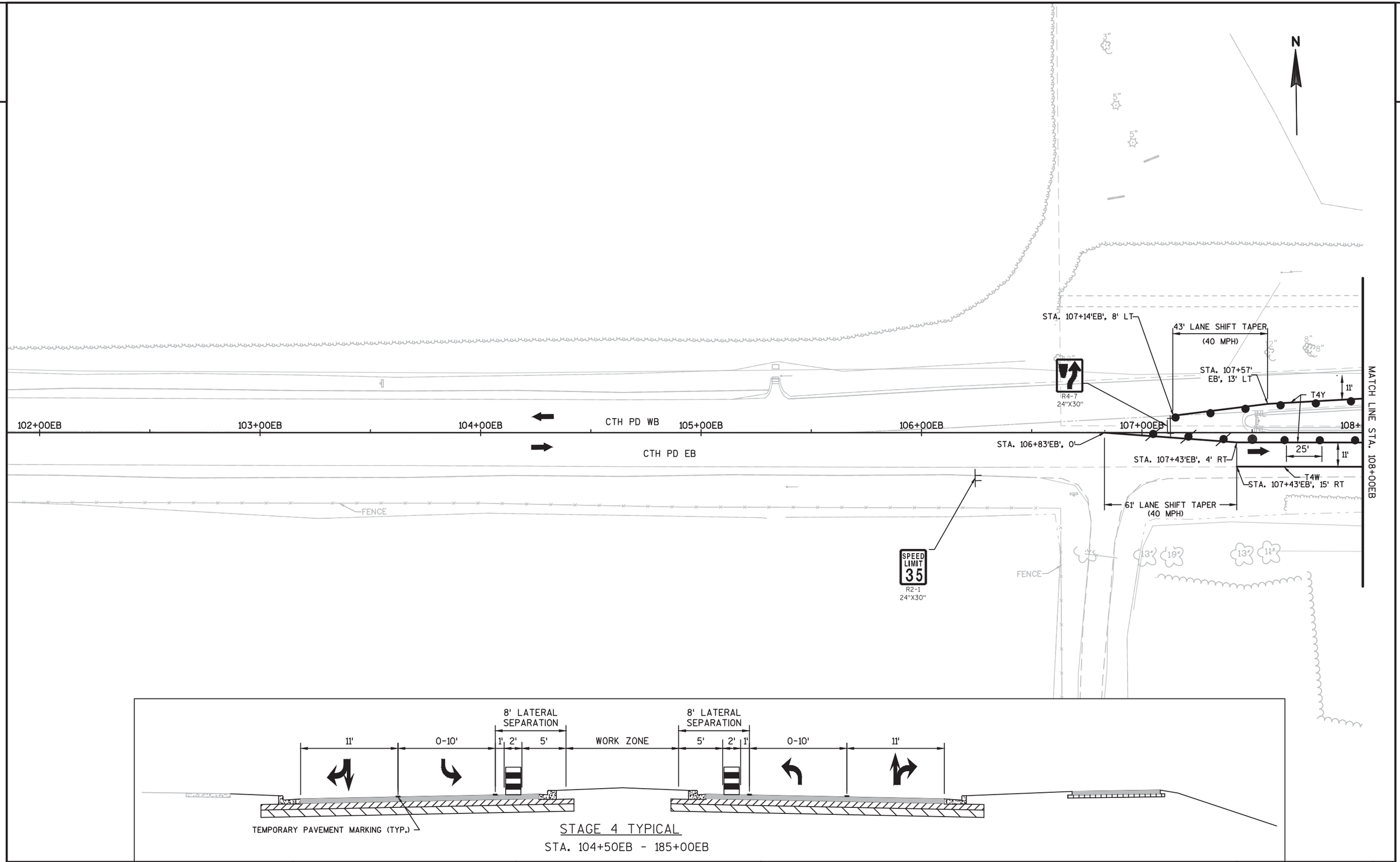
TRAFFIC OPERATIONS:

- CTH PD (EB): MAINTAIN ONE THROUGH LANE AND SHIFT TO THE OUTSIDE
- CTH PD (WB): MAINTAIN ONE THROUGH LANE AND SHIFT TO THE OUTSIDE
- INTERSECTIONS ARE OPEN TO TRAFFIC AT ALL TIMES
- FLAGGING OPERATIONS DURING FINAL LIFT OF HMA PAVING



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL - STAGE 4 OVERVIEW	SHEET 305	E

2



STAGE 4 TYPICAL

STA. 104+50EB - 185+00EB

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 4 (SHEET 4-1)	SHEET 306	E

2

ROAD WORK AHEAD
W20-1-A

MERITER WAY

N

LANE CLOSED
R11-2-L
48"X30"

LANE CLOSED
R11-2-L
48"X30"

W01-6
48"X24"

STA. 111+55'EB', 40' LT

11'

CTH PD WB

25'

T4Y

STA. 108+23'EB', 17' LT

STA. 110+67'EB', 35' LT

STA. 109+86'EB', 35' LT

STA. 108+20'EB', 5' RT

STA. 109+38'EB', 5' LT

STA. 110+58'EB', 5' LT

MATCH LINE STA. 108+00EB

108+00EB

109+00EB

110+00EB

111+00EB

112+00EB

113+00EB

114+00EB

MATCH LINE STA. 114+00EB

10'

11'

STA. 109+38'EB', 5' RT

T8W

STA. 110+58'EB', 5' RT

T8W

T4W

STA. 112+05'EB', 16' RT

11'

CTH PD EB

STA. 110+58'EB', 16' RT

STA. 112+05'EB', 27' RT

147' LANE SHIFT TAPER
(40 MPH)

WORK ZONE (TYP.)

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

W01-4L

SPEED LIMIT 35
R2-1
24"X30"

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 4 (SHEET 4-2)	SHEET 307	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025004_TC_STAGE 4.DWG
LAYOUT NAME - 025002

PLOT DATE : 10/17/2016 4:24 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

ICE AGE JUNCTION PATH

MATCH LINE STA. 114+00EB

MATCH LINE STA. 120+00EB

T4Y

25'

11'

CTH PD WB

CTH PD EB

11'

115+00EB

116+00EB

117+00EB

118+00EB

119+00EB

WORK ZONE (TYP.)

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 4 (SHEET 4-3)	SHEET 308	E

2

2

N

ICE AGE NATIONAL SCENIC TRAIL

R-13-310

R-13-309

ICE AGE JUNCTION PATH

MATCH LINE STA. 120+00EB

T4Y

25'

11'

CTH PD WB

121+00EB

122+00EB

123+00EB

124+00EB

125+00EB

126+

MATCH LINE STA. 126+00EB

11'

CTH PD EB

WORK ZONE (TYP.)

ONE WAY

R6-2-R
24"X30"

W03-3

B-13-847
BICYCLE AND PEDESTRIAN
OVERPASS BRIDGE

ICE AGE NATIONAL SCENIC TRAIL

ICE AGE JUNCTION PATH

HSE

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 4 (SHEET 4-4)	SHEET 309	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025004_TC_STAGE 4.DWG
LAYOUT NAME - 025004

PLOT DATE : 10/17/2016 4:24 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

MATCH LINE STA. 126+00EB

00EB

127+00EB

128+00EB

129+00EB

130+00EB

131+00EB

132+

MATCH LINE STA. 132+00EB

T4Y

11'

CTH PD WB

25'

NO PARKING ANY TIME
R7-1-D
18"X24"

SPEED LIMIT 35
R2-1
24"X30"

3"

4"

4"

3"

3"

4"

STA. 130+23'EB', 6' RT

T8W

10'

STA. 129+73'EB', 16' RT

STA. 130+23'EB', 16' RT

11'

CTH PD EB

WORK ZONE (TYP.)

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

W03-3

NO PARKING ANY TIME
R7-1-D
18"X24"

15'

20'

16'

6"

ICE AGE JUNCTION PATH AREA DRIVEWAY

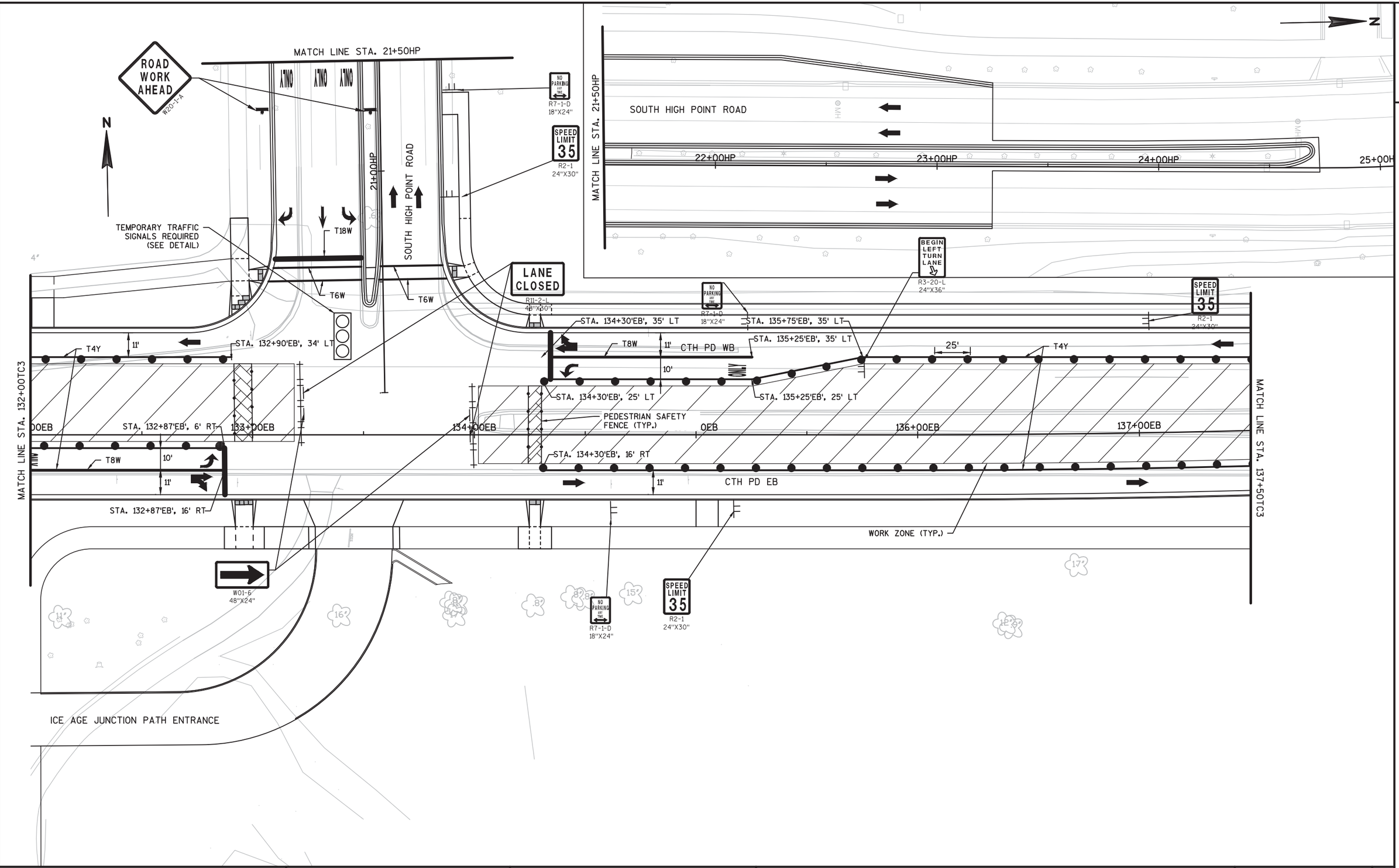
AG

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 4 (SHEET 4-5)	SHEET 310	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025004_TC_STAGE 4.DWG
LAYOUT NAME - 025005

PLOT DATE : 10/17/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 4 (SHEET 4-6)	SHEET 311	E

2

N

STOP
R1-1
30"X30"

STRATTON WAY

ONE WAY
R6-2-R
24"X30"

NO PARKING ANY TIME
R7-1-D
18"X24"

SPEED LIMIT 35
R2-1
24"X30"

LANE CLOSED
R11-2-L
48"X30"

T18W

T6W

STA. 142+16'EB', 36' LT

STA. 142+94'EB', 36' LT

25'

CTH PD WB

11'

T4Y

T8W

10'

PEDESTRIAN SAFETY FENCE (TYP.)

MATCH LINE STA. 137+50EB

138+00EB

139+00EB

140+00EB

141+00EB

142+00EB

143+00EB

STA. 142+94'EB', 26' LT

MATCH LINE STA. 143+50EB

CTH PD EB

WORK ZONE (TYP.)

STA. 142+16'EB', 16' RT

STA. 142+94'EB', 16' RT

T6W

T18W

W01-6
48"X24"

STOP
R1-1
30"X30"

SNOWY PARKWAY

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 4 (SHEET 4-7)	SHEET 312	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025004_TC_STAGE 4.DWG
LAYOUT NAME - 025007

PLOT DATE : 10/17/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

NO PARKING ANY TIME
R7-1-D
18"X24"

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

W8W

ONLY

STA. 144+40EB', 35' LT

T4Y

25'

CTH PD WB

11'

STA. 143+90'EB', 35' LT

STA. 143+90'EB', 25' LT

MATCH LINE STA. 143+50EB

144+00EB

145+00EB

146+00EB

147+00EB

148+00EB

149+00EB

MATCH LINE STA. 149+50EB

CTH PD EB

11'

WORK ZONE (TYP.)

SPEED LIMIT 35
R2-1
24"X30"

NO PARKING ANY TIME
R7-1-D
18"X24"

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 4 (SHEET 4-8)	SHEET 313	E

2

2

N

STOP
R1-1
30"X30"

B-13-0848 BADGER MILL CREEK BOX CULVERT

MUIR FIELD ROAD

KING

NO PARKING ANY TIME
R7-1-D
18"X24"

SPEED LIMIT 35
R2-1
24"X30"

T18W

WO1-6
48"X24"

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

STA. 153+04'EB', 35' LT

STA. 154+58'EB', 35' LT

CTH PD WB

T4Y

11'

T8W

10'

STA. 154+08'EB', 35' LT

25'

STA. 151+62'EB', 35' LT

STA. 154+08'EB', 25' LT

STA. 153+04'EB', 25' LT

PEDESTRIAN SAFETY FENCE (TYP.)

MATCH LINE STA. 149+50EB

150+00EB

151+00EB

STA. 151+62'EB', 6' RT

152+00EB

153+00EB

154+00EB

155+00EB

MATCH LINE STA. 155+50EB

STA. 150+58'EB', 6' RT

STA. 153+04'EB', 16' RT

STA. 150+07'EB', 16' RT

STA. 150+58'EB', 16' RT

CTH PD EB

11'

STA. 151+62'EB', 16' RT

T6W

WORK ZONE (TYP.)

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

NO PARKING ANY TIME
R7-1-D
18"X24"

LANE CLOSED
R11-2-L
48"X30"

T18W

SPEED LIMIT 35
R2-1
24"X30"

STOP
R1-1
30"X30"

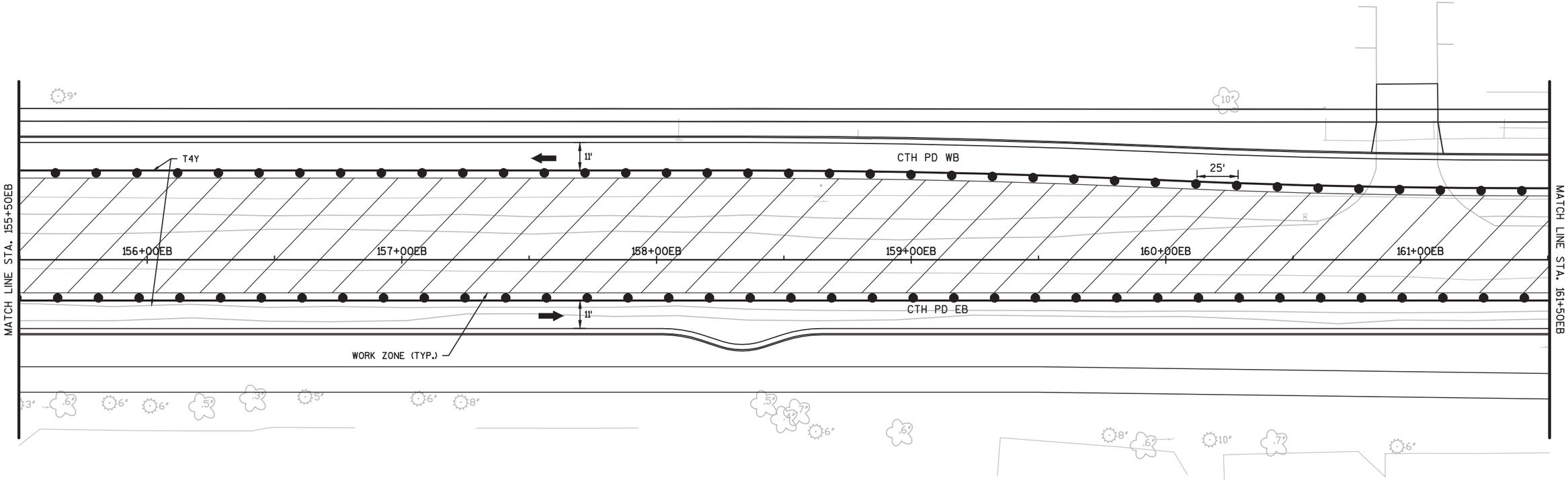
ONLY

COUNTRY GROVE DRIVE

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 4 (SHEET 4-9)	SHEET 314	E

2

N



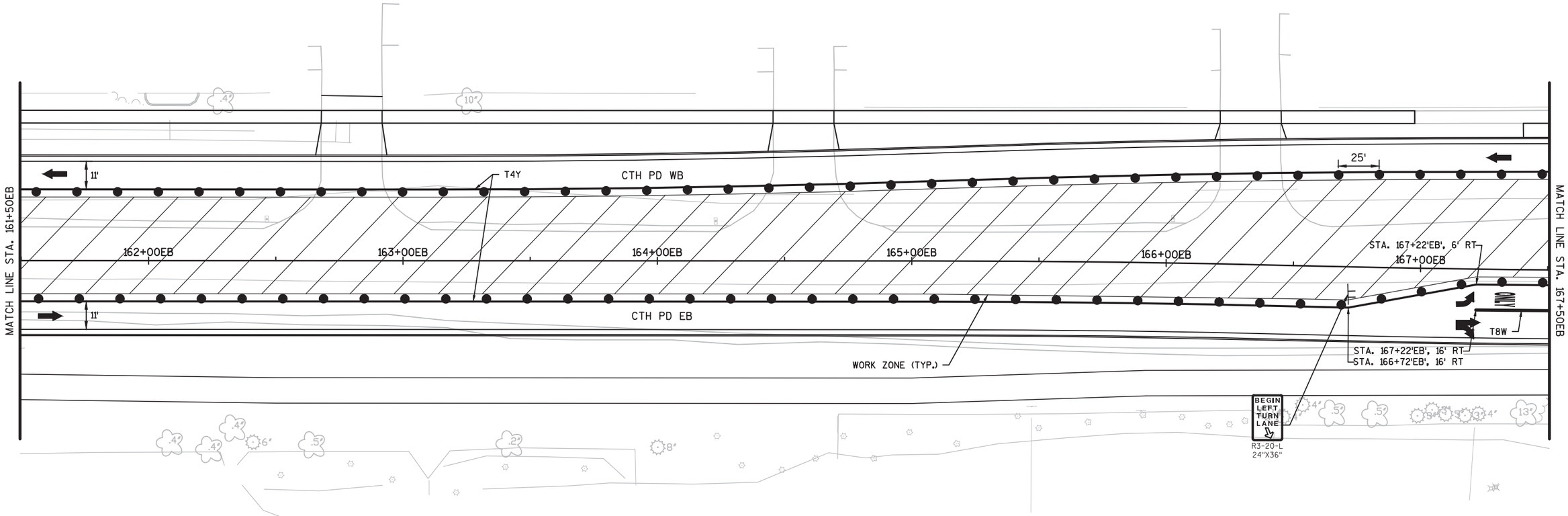
PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 4 (SHEET 4-10)	SHEET 315	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025004_TC_STAGE 4.DWG
LAYOUT NAME - 0250010

PLOT DATE : 10/17/2016 4:26 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 4 (SHEET 4-11)	SHEET 316	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025004_TC_STAGE 4.DWG
LAYOUT NAME - 0250011
PLOT DATE : 10/17/2016 4:26 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

STOP
R1-1
30"X30"

SILVERTON TRAIL

SPEED LIMIT 35
R2-1
24"X30"

LANE CLOSED
R11-2-L
48"X30"

W01-6
48"X24"

T18W

T6W

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

SPEED LIMIT 35
R2-1
24"X30"

STA. 168+17'EB', 39' LT

STA. 169+25'EB', 39' LT

STA. 170+03'EB', 39' LT

T4Y

11'

T8W

10'

ONLY

25'

CTH PD WB

STA. 170+53'EB', 38' LT

STA. 169+25'EB', 29' LT

STA. 170+03'EB', 29' LT

PEDESTRIAN SAFETY FENCE (TYP.)

168+00EB

169+00EB

170+00EB

171+00EB

172+00EB

173+00EB

STA. 168+17'EB', 6' RT

STA. 168+17'EB', 16' RT

STA. 169+25'EB', 16' RT

CTH PD EB

WORK ZONE (TYP.)

MATCH LINE STA. 167+50EB

MATCH LINE STA. 173+50EB

BUSHES

TANGLEWOOD DRIVE

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	TRAFFIC CONTROL-STAGE 4 (SHEET 4-12)	SHEET 317	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025004_TC_STAGE 4.DWG
LAYOUT NAME - 0250012

PLOT DATE : 10/17/2016 4:26 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

W01-6
48"X24"

LANE CLOSED
R11-2-L
48"X30"

NO PARKING ANY TIME
R7-1-D
18"X24"

BEGIN LEFT TURN LANE
R3-20-L
24"X36"

427' LANE MERGE TAPER (40 MPH)

STA. 173+94'EB', 35' LT

STA. 175+87'EB', 36' LT

STA. 174+93'EB', 36' LT

T4Y

PEDESTRIAN SAFETY FENCE (TYP.)

11'

T8W

10'

CTH PD WB

25'

T4Y

11'

STA. 176+37'EB', 36' LT

STA. 175+87'EB', 26' LT

STA. 174+93'EB', 26' LT

MATCH LINE STA. 173+50EB

174+00EB

175+00EB

176+00EB

177+00EB

178+00EB

179+00EB

MATCH LINE STA. 179+50EB

STA. 174+93'EB', 16' RT

STA. 173+94'EB', 16' RT

11'

CTH PD EB

11'

T6W

WORK ZONE (TYP.)

LANE CLOSED
R11-2-L
48"X30"

T18W

MAY USE FULL LANE
R4-11
30"X30"

SPEED LIMIT 35
R2-1
24"X30"

NO PARKING ANY TIME
R7-1-D
18"X24"

W01-6
48"X24"

BIKE LANE
R3-17
30"X24"

AHEAD
R3-17-A
30"X12"

ENDS
R3-17-B
30"X12"

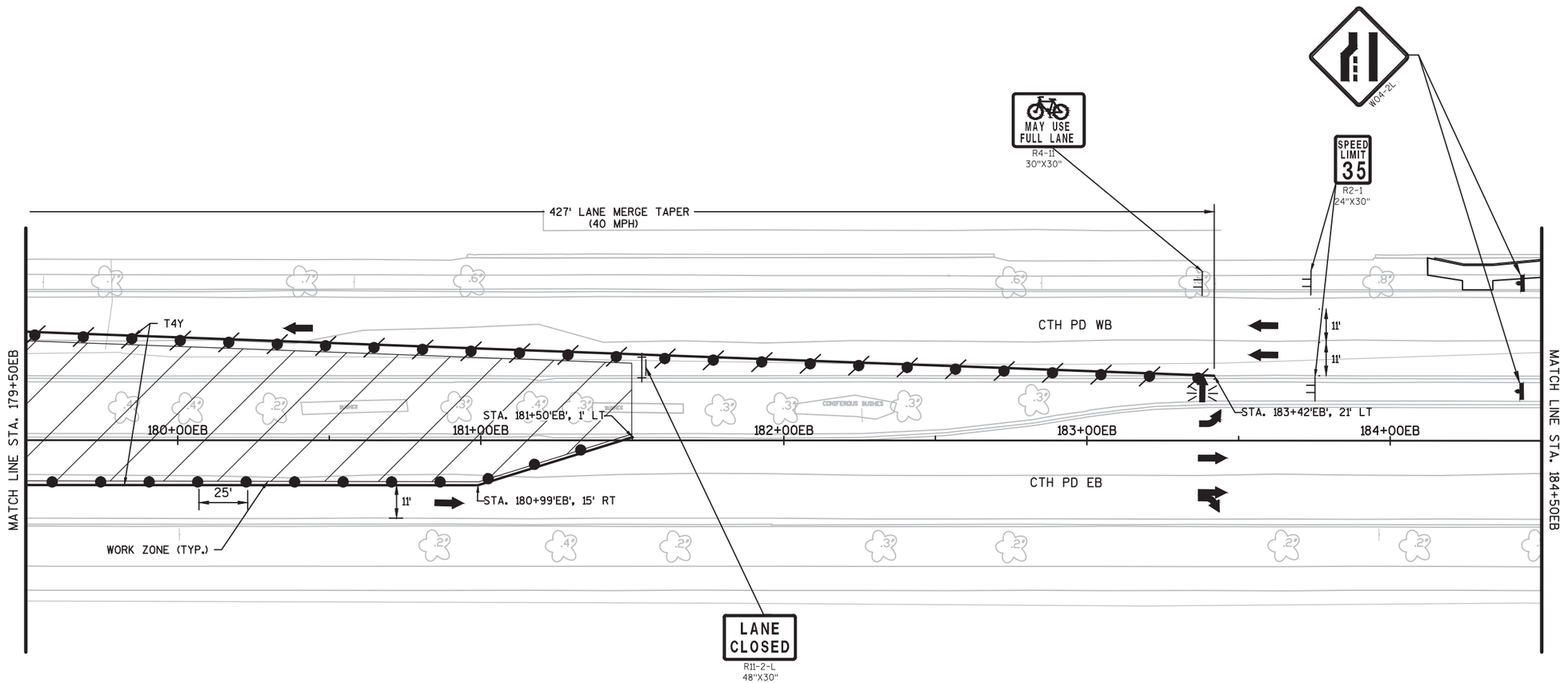
STOP
R1-1
30"X30"

STONECREEK DRIVE

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 4 (SHEET 4-13)	SHEET 318	E

2

N



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 4 (SHEET 4-14)	SHEET 319	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\TRAFFIC CONTROL\025004_TC_STAGE 4.DWG
LAYOUT NAME - 0250014
PLOT DATE : 10/17/2016 4:26 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

MAPLE GROVE DRIVE

BIKE LANE
R3-17
30"X24"

AHEAD
R3-17-A
30"X12"

ENDS
R3-17-B
30"X12"

LEFT LANE CLOSED AHEAD
W20-5S-A

T18W

T6W

CTH PD WB

11'

MATCH LINE STA. 184+50EB

185+00EB

186+00EB

187+00EB

CTH PD EB

11'

11'

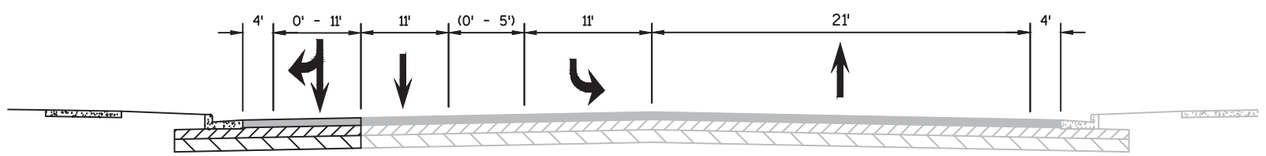
11'

T6W

T18W

TEMPORARY TRAFFIC SIGNALS REQUIRED (SEE DETAIL)

MAPLE GROVE DRIVE



STAGE 4 TYPICAL
MAPLE GROVE DRIVE

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	TRAFFIC CONTROL-STAGE 4 (SHEET 4-15)	SHEET 320	E

2

CTY-PD WB
PI STA = 100+00.00 'WB'
Y = 461,498.6415
X = 781,907.2208

CTY-PD EB
PI STA = 100+00.00 'EB'
Y = 461,474.6448
X = 781,906.8195

LCL-MERITER WAY
PI STA = 10+00.01 'MW'
Y = 461,481.1287
X = 783,012.1778

LCL-MERITER WAY
PI STA = 13+01.87 'MW'
Y = 461,782.9854
X = 783,013.9084

N

MERITER WAY

EP: 13+01.87'MW'

13+00'MW'

12+00'MW'

N0° 19' 45"E

BP: 10+00.00'MW'

S89° 03' 03"E

PI: 110+70.77'WB'

11+00'MW'

PI: 111+58.99'WB'

S89° 08' 49"E

PI: 113+87.41'WB'

BP: 100+00.00'WB'

CTH PD WB

101+00'WB' 102+00'WB' 103+00'WB' 104+00'WB' 105+00'WB' 106+00'WB' 107+00'WB' 108+00'WB' 109+00'WB' 110+00'WB' 111+00'WB' 112+00'WB' 113+00'WB' 114+00'WB' 115+0

S89° 05' 16"E

101+00'EB' 102+00'EB' 103+00'EB' 104+00'EB' 105+00'EB' 106+00'EB' 107+00'EB' 108+00'EB' 109+00'EB' 110+00'EB' 111+00'EB' 112+00'EB' 113+00'EB' 114+00'EB' 115+0

CTH PD EB

S89° 05' 16"E

MATCH LINE STA. 115+00'WB'

BP: 100+00.00'EB'

PC: 112+49.09'EB'

CTY-PD EB
PI STA = 113+91.85 'EB'
Y = 461,452.4857
X = 783,298.4897
△ = 2°45'29"
D = 0°57'58.33"
T = 142.76
L = 285.46
R = 5930.00
PC STA = 112+49.09 'EB'
Y = 461,454.7585
X = 783,155.7519
PT STA = 115+34.55 'EB'
Y = 461,457.0840
X = 783,441.1715
SE = NC

CTY-PD WB
PI STA = 110+70.77 'WB'
Y = 461,481.5941
X = 782,977.8531

CTY-PD WB
PI STA = 111+58.99 'WB'
Y = 461,480.1326
X = 783,066.0638

CTY-PD WB
PI STA = 113+87.41 'WB'
Y = 461,476.7314
X = 783,294.4626

2

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	ALIGNMENT DIAGRAM: CTH PD	SHEET 321	E

2

N

CTH PD WB

CTH PD EB

MATCH LINE STA. 208+25'AT'

S88° 46' 34"E

EP: 12+75.09'DW'

PT: 12+29.20'DW'

11+00'DW'

N1° 13' 26"E

PT: 31+82.46'C'

PT: 207+15.64'AT'

PRC: 115+34.55'EB'

PT: 118+52.26'EB'

PC: 122+62.12'EB'

PRC: 125+17.54'EB'

PT: 127+72.96'EB'

BP: 50+00.00'IE'

51+00'IE'

ICE AGE TRAIL ENTRANCE

MATCH LINE STA. 115+00'WB'

MATCH LINE STA. 130+00'WB'

PC: 10+24.57'DW'

BP: 10+00.00'DW'

N11° 23' 40"W

PT: 10+89.06'DW'

PC: 11+72.63'DW'

S88° 44' 35"E

DRIVEWAY 122+00'DW'

N2° 09' 39"E

PC: 31+68.95'C'

PI: 31+55.20'C'

PI: 31+22.90'C'

31+00'C'

N13° 55' 16"W

N4° 43' 23"W

BP: 30+00.00'C'

ICE AGE NATIONAL SCENIC TRAIL

207+00'AT'

206+00'AT'

205+00'AT'

EP: 32+39.12'C'

PC: 204+01.63'AT'

N79° 34' 52"E

N88° 44' 00"W

ICE AGE JUNCTION PATH

BP: 200+00.00'AT'

DRIVEWAY 122+00'DW'
PI STA = 10+69.54 'DW'
Y = 461,373.1034
X = 783,940.2479
Δ = 102°39'05"
D = 159°09'17.80"
T = 44.98
L = 64.50
R = 36.00
PC STA = 10+24.57 'DW'
Y = 461,329.0131
X = 783,949.1336
PT STA = 10+89.06 'DW'
Y = 461,372.1167
X = 783,985.2139
SE = NC

DRIVEWAY 122+00'DW'
PI STA = 12+08.66 'DW'
Y = 461,369.4931
X = 784,104.7763
Δ = 90°01'59"
D = 159°09'17.80"
T = 36.02
L = 56.57
R = 36.00
PC STA = 11+72.63 'DW'
Y = 461,370.2833
X = 784,068.7642
PT STA = 12+29.20 'DW'
Y = 461,405.5057
X = 784,105.5457
SE = NC

CTY-PD EB
PI STA = 116+93.44 'EB'
Y = 461,462.2022
X = 783,599.9855
Δ = 3°04'11"
D = 0°57'58.33"
T = 158.90
L = 317.72
R = 5930.00
PC STA = 115+34.55 'EB'
Y = 461,457.0840
X = 783,441.1715
PT STA = 118+52.26 'EB'
Y = 461,458.8082
X = 783,758.8458
SE = NC

CTY-PD EB
PI STA = 126+45.27 'EB'
Y = 461,430.8763
X = 784,551.2414
Δ = 2°28'04"
D = 0°57'58.33"
T = 127.73
L = 255.42
R = 5930.00
PC STA = 125+17.54 'EB'
Y = 461,439.1008
X = 784,423.7761
PT STA = 127+72.96 'EB'
Y = 461,428.1480
X = 784,678.9427
SE = NC

CTY-PD EB
PI STA = 123+89.85 'EB'
Y = 461,447.3254
X = 784,296.3107
Δ = 2°28'04"
D = 0°57'58.33"
T = 127.73
L = 255.42
R = 5930.00
PC STA = 122+62.12 'EB'
Y = 461,450.0537
X = 784,168.6094
PT STA = 125+17.54 'EB'
Y = 461,439.1008
X = 784,423.7761
SE = NC

CTY-ICE AGE NATIONAL SCENIC TRAIL
PI STA = 31+76.97 'C'
Y = 461,322.8736
X = 784,273.0048
Δ = 77°25'13"
D = 572°57'28.06"
T = 8.01
L = 13.51
R = 10.00
PC STA = 31+68.95 'C'
Y = 461,314.8649
X = 784,272.7026
PT STA = 31+82.46 'C'
Y = 461,324.3230
X = 784,280.8870
SE = NC

CTY-ICE AGE JUNCTION TRAIL
PI STA = 206+01.48 'AT'
Y = 461,175.2051
X = 784,329.0907
Δ = 89°57'26"
D = 28°38'52.40"
T = 199.85
L = 314.01
R = 200.00
PC STA = 204+01.63 'AT'
Y = 461,170.7870
X = 784,528.8925
PT STA = 207+15.64 'AT'
Y = 461,375.0101
X = 784,333.3595
SE = NC

CTY-ICE AGE NATIONAL SCENIC TRAIL
PI STA = 31+22.90 'C'
Y = 461,269.7740
X = 784,279.9544

CTY-ICE AGE NATIONAL SCENIC TRAIL
PI STA = 31+55.20 'C'
Y = 461,301.1229
X = 784,272.1841

CTY-ICE AGE JUNCTION TRAIL
PI STA = 200+00.00 'AT'
Y = 461,161.9083
X = 784,930.4257

DRIVEWAY 122+00'DW'
PI STA = 10+00.00 'DW'
Y = 461,304.93
X = 783,953.99

DRIVEWAY 122+00'DW'
PI STA = 12+75.09 'DW'
Y = 461,451.38
X = 784,106.50

CTY-ICE AGE NATIONAL SCENIC TRAIL
PI STA = 30+00.00 'C'
Y = 461,147.2893
X = 784,290.0741

CTY-ICE AGE NATIONAL SCENIC TRAIL
PI STA = 32+39.12 'C'
Y = 461,334.4946
X = 784,336.6252

CTY-ICE AGE TRAIL ENTRANCE
PI STA = 50+00.00 'IE'
Y = 461,295.0645
X = 784,767.7254

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	ALIGNMENT DIAGRAM: CTH PD	SHEET 322	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 021203
PLOT DATE : 10/17/2016 2:48 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

CTY-ICE AGE JUNCTION TRAIL
PI STA = 206+01.48 'AT'
Y = 461,175.2051
X = 784,329.0907
Δ = 89°57'26"
D = 28°38'52.40"
T = 199.85
L = 314.01
R = 200.00
PC STA = 204+01.63 'AT'
Y = 461,170.7870
X = 784,528.8925
PT STA = 207+15.64 'AT'
Y = 461,375.0101
X = 784,333.3595
SE = NC

CTY-ICE AGE JUNCTION TRAIL
PI STA = 208+51.10 'AT'
Y = 461,510.4429
X = 784,336.2529
Δ = 270°00'00"
D = 114°35'29.61"
T = 50.00
L = 235.62
R = 50.00
PC STA = 209+01.10 'AT'
Y = 461,560.4315
X = 784,337.3209
PT STA = 211+36.72 'AT'
Y = 461,509.3749
X = 784,386.2415
SE = NC

CTY-ICE AGE JUNCTION TRAIL
PI STA = 215+45.32 'AT'
Y = 461,505.3786
X = 783,977.8166
Δ = 21°54'29"
D = 100°31'08.08"
T = 11.03
L = 21.79
R = 57.00
PC STA = 215+34.29 'AT'
Y = 461,505.7487
X = 783,988.8425
PT STA = 215+56.08 'AT'
Y = 461,509.1493
X = 783,967.4488
SE = NC

CTY-ICE AGE JUNCTION TRAIL
PI STA = 216+71.50 'AT'
Y = 461,548.5981
X = 783,858.9808
Δ = 43°30'54"
D = 143°14'22.02"
T = 15.96
L = 30.38
R = 40.00
PC STA = 216+55.54 'AT'
Y = 461,543.1416
X = 783,873.9839
PT STA = 216+85.92 'AT'
Y = 461,562.8854
X = 783,851.8578
SE = NC

ICE AGE NATIONAL SCENIC TRAIL
PI STA = 51+14.82 'D'
Y = 461,537.6865
X = 784,288.1716
Δ = 33°22'19"
D = 76°23'39.74"
T = 22.48
L = 43.68
R = 75.00
PC STA = 50+92.34 'D'
Y = 461,550.4508
X = 784,269.6657
PT STA = 51+36.03 'D'
Y = 461,537.2063
X = 784,310.6474
SE = NC

ICE AGE NATIONAL SCENIC TRAIL
PI STA = 50+51.15 'D'
Y = 461,574.7724
X = 784,234.4040
Δ = 55°12'54"
D = 286°28'44.03"
T = 10.46
L = 19.27
R = 20.00
PC STA = 50+40.69 'D'
Y = 461,571.0892
X = 784,224.6149
PT STA = 50+59.97 'D'
Y = 461,568.8339
X = 784,243.0137
SE = NC

LCL-SNOWYCAP TRAIL
PI STA = 30+85.76 'ST'
Y = 461,657.2900
X = 784,294.4103
Δ = 124°32'47"
D = 143°14'22.02"
T = 76.10
L = 86.95
R = 40.00
PC STA = 30+09.66 'ST'
Y = 461,600.3079
X = 784,344.8542
PT STA = 30+96.61 'ST'
Y = 461,583.4281
X = 784,276.0813
SE = NC

LCL-SNOWYCAP TRAIL
PI STA = 31+34.61 'ST'
Y = 461,546.5494
X = 784,266.9298
Δ = 80°21'15"
D = 127°19'26.24"
T = 38.00
L = 63.11
R = 45.00
PC STA = 30+96.61 'ST'
Y = 461,583.4281
X = 784,276.0813
PT STA = 31+59.72 'ST'
Y = 461,549.3923
X = 784,229.0392
SE = NC

LCL-SNOWYCAP TRAIL
PI STA = 32+32.78 'ST'
Y = 461,554.8583
X = 784,156.1870
Δ = 22°36'58"
D = 81°51'04.01"
T = 14.00
L = 27.63
R = 70.00
PC STA = 32+18.78 'ST'
Y = 461,553.8110
X = 784,170.1454
PT STA = 32+46.41 'ST'
Y = 461,561.1929
X = 784,143.7046
SE = NC

LCL-SNOWYCAP TRAIL
PI STA = 33+04.50 'ST'
Y = 461,587.4804
X = 784,091.9048
Δ = 27°09'15"
D = 23°49'14.28"
T = 58.09
L = 113.99
R = 240.53
PC STA = 32+46.41 'ST'
Y = 461,561.1929
X = 784,143.7046
PT STA = 33+60.41 'ST'
Y = 461,634.5113
X = 784,057.8114
SE = NC

LCL-SNOWYCAP TRAIL
PI STA = 30+00.00 'ST'
Y = 461,593.0739
X = 784,351.2581

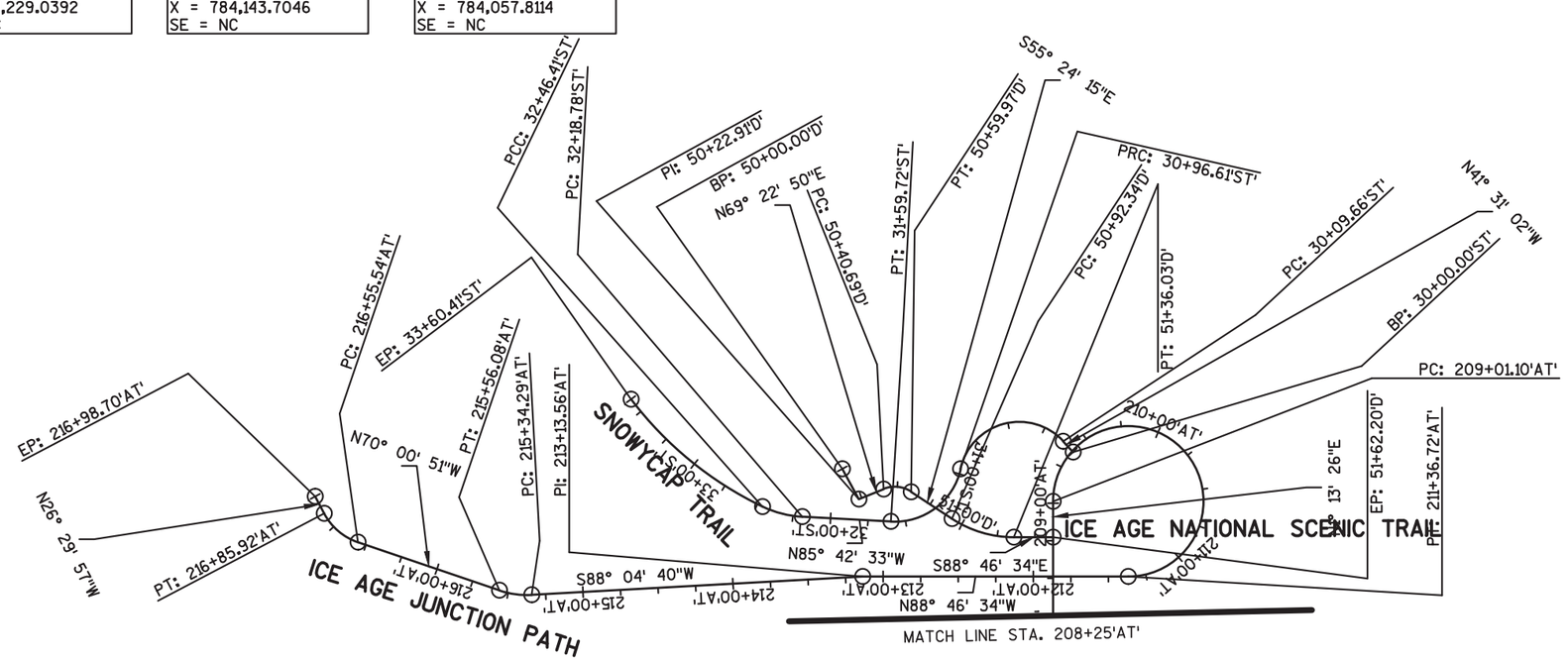
LCL-SNOWYCAP TRAIL
PI STA = 33+60.41 'ST'
Y = 461,634.5113
X = 784,057.8114

ICE AGE NATIONAL SCENIC TRAIL
PI STA = 50+00.00 'D'
Y = 461,585.1328
X = 784,197.3619

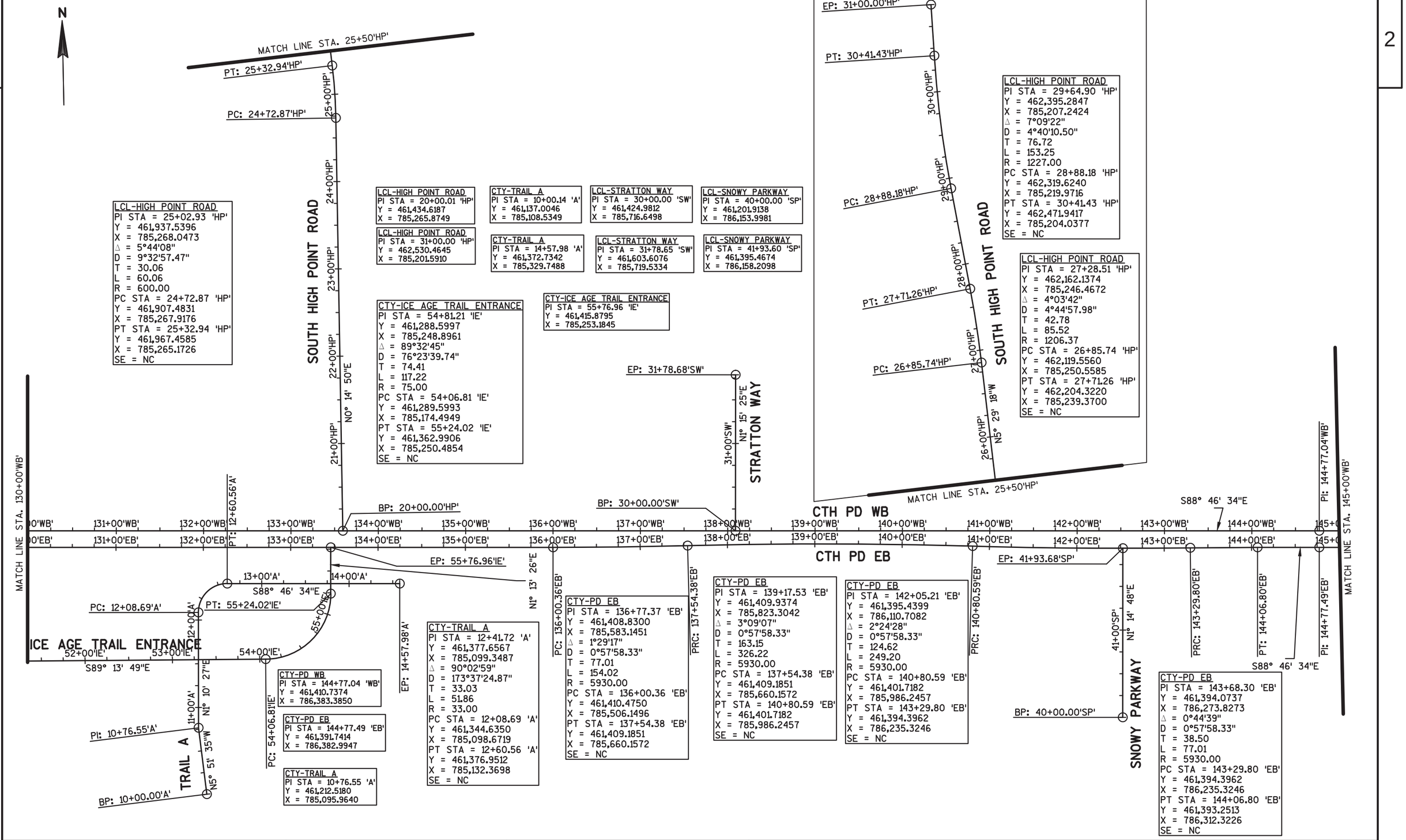
ICE AGE NATIONAL SCENIC TRAIL
PI STA = 51+62.20 'D'
Y = 461,536.6473
X = 784,336.8128

CTY-ICE AGE JUNCTION TRAIL
PI STA = 216+98.70 'AT'
Y = 461,574.5088
X = 783,846.5200

CTY-ICE AGE JUNCTION TRAIL
PI STA = 213+13.56 'AT'
Y = 461,513.1521
X = 784,209.4457



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	ALIGNMENT DIAGRAM: CTH PD	SHEET 323	E



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	ALIGNMENT DIAGRAM: CTH PD	SHEET 324	E

2

N

LCL-DRAINAGE WAY
PI STA = 10+00.00 'BM'
Y = 461,398.4483
X = 787,030.2922

LCL-DRAINAGE WAY
PI STA = 16+38.94 'BM'
Y = 461,594.7852
X = 786,460.6444
Δ = 52°00'23"
D = 28°38'52.40"
T = 97.56
L = 181.54
R = 200.00
PC STA = 15+41.38 'BM'
Y = 461,594.7030
X = 786,558.2047
PT STA = 17+22.92 'BM'
Y = 461,671.7210
X = 786,400.6536
SE = NC

LCL-COUNTRY GROVE DRIVE
PI STA = 50+54.10 'CM'
Y = 461,025.1247
X = 787,040.9323
Δ = 20°26'46"
D = 19°05'54.94"
T = 54.10
L = 107.06
R = 300.00
PC STA = 50+00.00 'CM'
Y = 460,997.7969
X = 786,994.2379
PT STA = 51+07.06 'CM'
Y = 461,067.0425
X = 787,075.1386
SE = NC

LCL-COUNTRY GROVE DRIVE
PI STA = 52+03.74 'CM'
Y = 461,141.9493
X = 787,136.2650
Δ = 38°44'26"
D = 20°50'05.38"
T = 96.68
L = 185.94
R = 275.00
PC STA = 51+07.06 'CM'
Y = 461,067.0425
X = 787,075.1386
PT STA = 52+93.00 'CM'
Y = 461,238.6282
X = 787,137.0667
SE = NC

LCL-COUNTRY GROVE DRIVE
PI STA = 50+00.00 'CM'
Y = 460,997.7969
X = 786,994.2379

LCL-COUNTRY GROVE DRIVE
PI STA = 57+70.76 'CM'
Y = 461,713.1411
X = 787,096.0831

LCL-POND A
PI STA = 17+52.05
Y = 461,507.8520
X = 786,407.5701
Δ = 83°21'35"
D = 104°10'26.92"
T = 48.97
L = 80.02
R = 55.00
PC STA = 17+03.09
Y = 461,501.7228
X = 786,456.1536
PT STA = 17+83.10
Y = 461,556.8183
X = 786,408.0403
SE = NC

LCL-POND A
PI STA = 18+83.65
Y = 461,536.0988
X = 786,483.9977
Δ = 31°27'33"
D = 28°38'52.40"
T = 56.33
L = 109.81
R = 200.00
PC STA = 18+27.32
Y = 461,565.6346
X = 786,436.0332
PT STA = 19+37.13
Y = 461,535.9368
X = 786,540.3264
SE = NC

LCL-DRAINAGE WAY
PI STA = 12+96.13 'BM'
Y = 461,594.4925
X = 786,808.3462
Δ = 41°36'33"
D = 39°30'51.59"
T = 55.09
L = 105.30
R = 145.00
PC STA = 12+41.04 'BM'
Y = 461,557.8734
X = 786,849.5084
PT STA = 13+46.34 'BM'
Y = 461,594.5389
X = 786,753.2528
SE = NC

CTY-PD WB
PI STA = 159+12.34 'WB'
Y = 461,381.7051
X = 787,818.3860
Δ = 2°33'45"
D = 1°38'13.28"
T = 78.28
L = 156.54
R = 3500.00
PC STA = 158+34.05 'WB'
Y = 461,383.2886
X = 787,740.1200
PT STA = 159+90.59 'WB'
Y = 461,376.6240
X = 787,896.5029
SE = NC

LCL-POND A
PI STA = 12+36.49
Y = 461,535.7160
X = 786,785.9595
Δ = 41°36'22"
D = 57°17'44.81"
T = 37.99
L = 72.62
R = 100.00
PC STA = 11+98.50
Y = 461,535.7472
X = 786,747.9669
PT STA = 12+71.12
Y = 461,510.4653
X = 786,814.3468
SE = NC

LCL-POND A
PI STA = 13+28.67
Y = 461,472.2124
X = 786,857.3515
Δ = 138°18'53"
D = 572°57'28.06"
T = 26.27
L = 24.14
R = 10.00
PC STA = 13+02.41
Y = 461,489.6695
X = 786,837.7258
PT STA = 13+26.55
Y = 461,472.1977
X = 786,831.0852
SE = NC

LCL-POND A
PI STA = 18+09.01
Y = 461,582.7190
X = 786,408.2889
Δ = 121°04'26"
D = 572°57'28.06"
T = 17.70
L = 21.13
R = 10.00
PC STA = 17+91.31
Y = 461,565.0183
X = 786,408.1190
PT STA = 18+12.44
Y = 461,573.4373
X = 786,423.3620
SE = NC

LCL-POND A
PI STA = 10+00.00
Y = 461,535.9095
X = 786,549.4670

LCL-POND A
PI STA = 19+46.26
Y = 461,535.2813
X = 786,549.4550

MUIR FIELD ROAD

BADGER MILL CREEK

POND A

COUNTRY GROVE DRIVE

CTH PD WB

CTH PD EB

MATCH LINE STA. 17+00'DW'

MATCH LINE STA. 145+00'WB'

MATCH LINE STA. 160+00'WB'

MATCH LINE STA. 52+00'CM'

EP: 57+70.76'CM'

PI: 57+09.84'CM'

PI: 56+21.42'CM'

PI: 54+78.43'CM'

PT: 52+93.00'CM'

BP: 10+00.00'BM'

PC: 15+41.38'BM'

PT: 19+37.13

PC: 18+27.32

PT: 18+12.44

PC: 17+91.31

PT: 17+83.10

PC: 17+03.09

PC: 11+98.50

PT: 13+46.34'BM'

PC: 12+41.04'BM'

PT: 12+71.12

PC: 13+02.41

PI: 13+98.17

PT: 13+98.17

PC: 158+34.05'WB'

PRC: 159+90.59'WB'

S88° 50' 28"E

S89° 57' 06"W

S89° 57' 10"E

S89° 50' 06"E

N82° 48' 35"W

N86° 40' 27"W

S89° 58' 05"W

N48° 20' 34"W

S48° 20' 48"E

N0° 37' 00"E

N0° 28' 30"E

N7° 16' 05"W

N1° 05' 01"W

N1° 10' 10"W

PCC: 51+07.06'CM'

BP: 50+00.00'CM'

LCL-COUNTRY GROVE DRIVE
PI STA = 54+78.43 'CM'
Y = 461,424.0546
X = 787,138.6044

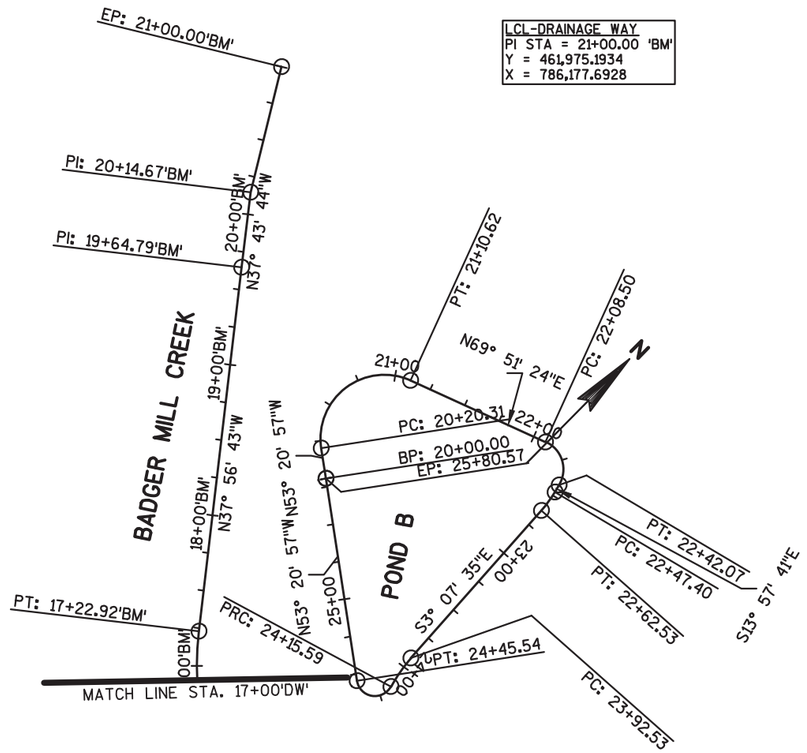
LCL-COUNTRY GROVE DRIVE
PI STA = 56+21.42 'CM'
Y = 461,565.8964
X = 787,120.5145

LCL-COUNTRY GROVE DRIVE
PI STA = 57+09.84 'CM'
Y = 461,652.6827
X = 787,103.6167

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	ALIGNMENT DIAGRAM: CTH PD	SHEET 325	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\027201_AD.DWG
LAYOUT NAME - 021205
PLOT DATE : 10/17/2016 2:48 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



LCL-DRAINAGE WAY
PI STA = 19+64.79 'BM'
Y = 461,862.4563
X = 786,251.9274

LCL-DRAINAGE WAY
PI STA = 20+14.67 'BM'
Y = 461,901.9085
X = 786,221.4034

LCL-DRAINAGE WAY
PI STA = 21+00.00 'BM'
Y = 461,975.1934
X = 786,177.6928

LCL-POND B
PI STA = 22+30.78
Y = 461,928.9050
X = 786,496.6047
Δ = 96°10'56"
D = 286°28'44.03"
T = 22.28
L = 33.57
R = 20.00
PC STA = 22+08.50
Y = 461,921.2312
X = 786,475.6844
PT STA = 22+42.07
Y = 461,907.2799
X = 786,501.9810
SE = NC

LCL-POND B
PI STA = 22+54.99
Y = 461,894.7417
X = 786,505.0981
Δ = 10°50'05"
D = 71°37'11.01"
T = 7.59
L = 15.13
R = 80.00
PC STA = 22+47.40
Y = 461,902.1043
X = 786,503.2677
PT STA = 22+62.53
Y = 461,887.1662
X = 786,505.5119
SE = NC

LCL-POND B
PI STA = 20+00.00
Y = 461,802.2763
X = 786,389.4851

LCL-POND B
PI STA = 25+80.57
Y = 461,802.2396
X = 786,389.4580

LCL-POND B
PI STA = 20+98.00
Y = 461,860.7739
X = 786,310.8645
Δ = 123°12'20"
D = 136°25'06.68"
T = 77.69
L = 90.31
R = 42.00
PC STA = 20+20.31
Y = 461,814.3998
X = 786,373.1913
PT STA = 21+10.62
Y = 461,887.5269
X = 786,383.7991
SE = NC

LCL-POND B
PI STA = 24+51.45
Y = 461,700.2705
X = 786,526.5814
Δ = 142°59'32"
D = 477°27'53.39"
T = 35.86
L = 29.95
R = 12.00
PC STA = 24+15.59
Y = 461,734.6781
X = 786,516.4931
PT STA = 24+45.54
Y = 461,721.6743
X = 786,497.8146
SE = NC

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	ALIGNMENT DIAGRAM: CTH PD	SHEET 326	E

2

N

LCL-STONECREEK DRIVE
PI STA = 90+00.00 'SD'
Y = 461,028.1213
X = 789,346.9115

LCL-STONECREEK DRIVE
PI STA = 93+07.94 'SD'
Y = 461,336.0474
X = 789,349.8011

LCL-TANGLEWOOD DRIVE & SILVERTON TRAIL
PI STA = 75+28.93 'TD'
Y = 461,648.3493
X = 788,731.9942

CTY-PD WB
PI STA = 173+07.39 'WB'
Y = 461,354.9091
X = 789,212.9908

CTY-PD EB
PI STA = 173+07.95 'EB'
Y = 461,335.9086
X = 789,212.8289

LCL-TANGLEWOOD DRIVE & SILVERTON TRAIL
PI STA = 74+39.61 'TD'
Y = 461,566.9401
X = 788,778.8751
Δ = 31°03'55"
D = 16°57'05.09"
T = 93.94
L = 183.26
R = 338.00
PC STA = 73+45.67 'TD'
Y = 461,473.0154
X = 788,777.0240
PT STA = 75+28.93 'TD'
Y = 461,648.3493
X = 788,731.9942
SE = NC

MATCH LINE STA. 160+00'WB'

PT: 161+47.13'WB'

PC: 163+09.68'WB'

PRC: 165+14.40'WB'

PT: 167+05.64'WB'

EP: 75+28.93'TD'

75+00'TD'

74+00'TD'

PC: 73+45.67'TD'

73+00'TD'

SILVERTON TRAIL

PI: 173+07.39'WB'

MATCH LINE STA. 175+00'WB'

S88° 50' 28"E

S88° 58' 16"E

CTH PD WB

0'WB' 161+00'WB' 162+00'WB' 163+00'WB' 164+00'WB' 165+00'WB' 166+00'WB' 167+00'WB' 168+00'WB' 169+00'WB' 170+00'WB' 171+00'WB' 172+00'WB' 173+00'WB' 174+00'WB' 175+0

0'EB' 161+00'EB' 162+00'EB' 163+00'EB' 164+00'EB' 165+00'EB' 166+00'EB' 167+00'EB' 168+00'EB' 169+00'EB' 170+00'EB' 171+00'EB' 172+00'EB' 173+00'EB' 174+00'EB' 175+0

CTH PD EB

N89° 56' 31"E

93+00'SD'

92+00'SD'

91+00'SD'

PC: 165+06.27'EB'

PRC: 166+54.66'EB'

PT: 168+16.52'EB'

72+00'TD'

PC: 169+28.49'EB'

PRC: 170+82.51'EB'

PT: 172+36.53'EB'

PI: 173+07.95'EB'

71+00'TD'

PI: 72+13.69'TD'

S88° 58' 16"E

EP: 93+07.94'SD'

N0° 32' 16"E

BP: 70+00.00'TD'

TANGLEWOOD DRIVE

STONECREEK DRIVE

BP: 90+00.00'SD'

CTY-PD WB
PI STA = 160+68.87 'WB'
Y = 461,371.5429
X = 787,974.6197
Δ = 2°33'45"
D = 1°38'13.28"
T = 78.28
L = 156.54
R = 3500.00
PC STA = 159+90.59 'WB'
Y = 461,376.6240
X = 787,896.5029
PT STA = 161+47.13 'WB'
Y = 461,369.9594
X = 788,052.8857
SE = NC

CTY-PD WB
PI STA = 164+12.05 'WB'
Y = 461,364.6008
X = 788,317.7521
Δ = 1°58'41"
D = 0°57'58.33"
T = 102.37
L = 204.71
R = 5930.00
PC STA = 163+09.68 'WB'
Y = 461,366.6714
X = 788,215.4057
PT STA = 165+14.40 'WB'
Y = 461,366.0639
X = 788,420.1090
SE = NC

CTY-PD WB
PI STA = 166+10.03 'WB'
Y = 461,367.4306
X = 788,515.7267
Δ = 1°50'52"
D = 0°57'58.33"
T = 95.63
L = 191.24
R = 5930.00
PC STA = 165+14.40 'WB'
Y = 461,366.0639
X = 788,420.1090
PT STA = 167+05.64 'WB'
Y = 461,365.7136
X = 788,611.3387
SE = NC

CTY-PD EB
PI STA = 165+80.46 'EB'
Y = 461,349.2038
X = 788,485.5368
Δ = 1°26'01"
D = 0°57'58.33"
T = 74.20
L = 148.39
R = 5930.00
PC STA = 165+06.27 'EB'
Y = 461,350.7046
X = 788,411.3533
PT STA = 166+54.66 'EB'
Y = 461,345.8473
X = 788,559.6595
SE = NC

CTY-PD EB
PI STA = 167+35.59 'EB'
Y = 461,342.1860
X = 788,640.5129
Δ = 1°33'50"
D = 0°57'58.33"
T = 80.94
L = 161.86
R = 5930.00
PC STA = 166+54.66 'EB'
Y = 461,345.8473
X = 788,559.6595
PT STA = 168+16.52 'EB'
Y = 461,340.7327
X = 788,721.4362
SE = NC

CTY-PD EB
PI STA = 170+05.50 'EB'
Y = 461,337.3393
X = 788,910.3911
Δ = 1°29'17"
D = 0°57'58.33"
T = 77.01
L = 154.02
R = 5930.00
PC STA = 169+28.49 'EB'
Y = 461,338.7221
X = 788,833.3905
PT STA = 170+82.51 'EB'
Y = 461,337.9566
X = 788,987.4016
SE = NC

CTY-PD EB
PI STA = 171+59.52 'EB'
Y = 461,338.5739
X = 789,064.4121
Δ = 1°29'17"
D = 0°57'58.33"
T = 77.01
L = 154.02
R = 5930.00
PC STA = 170+82.51 'EB'
Y = 461,337.9566
X = 788,987.4016
PT STA = 172+36.53 'EB'
Y = 461,337.1911
X = 789,141.4127
SE = NC

LCL-TANGLEWOOD DRIVE & SILVERTON TRAIL
PI STA = 72+13.69 'TD'
Y = 461,341.0640
X = 788,774.4235

LCL-TANGLEWOOD DRIVE & SILVERTON TRAIL
PI STA = 70+00.00 'TD'
Y = 461,128.6554
X = 788,751.0445

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	ALIGNMENT DIAGRAM: CTH PD	SHEET 327	E

2

2

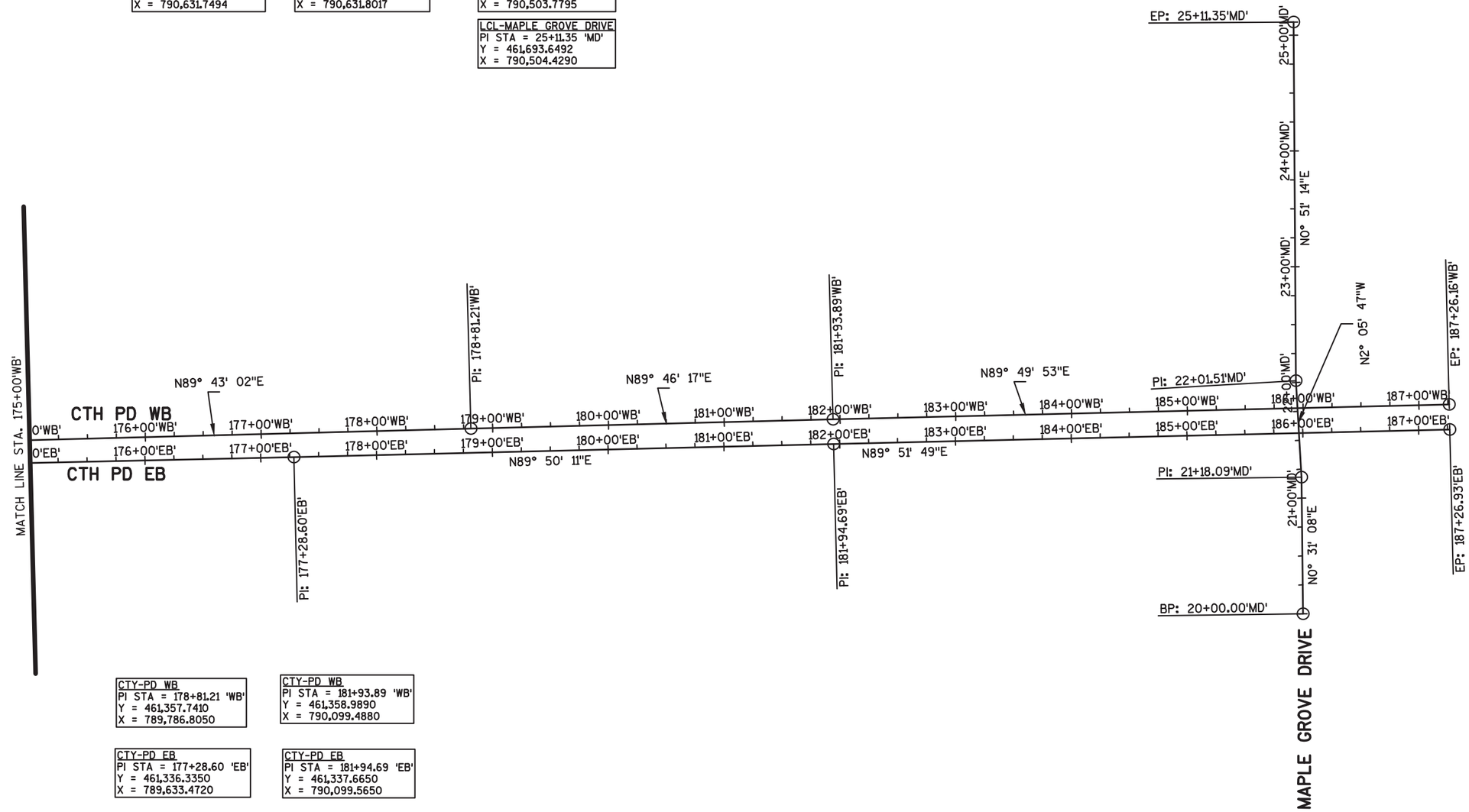
N

CTY-PD WB
PI STA = 187+26.16 'WB'
Y = 461,360.5547
X = 790,631.7494

CTY-PD EB
PI STA = 187+26.93 'EB'
Y = 461,338.9330
X = 790,631.8017

LCL-MAPLE GROVE DRIVE
PI STA = 20+00.00 'MD'
Y = 461,182.3785
X = 790,503.7795

LCL-MAPLE GROVE DRIVE
PI STA = 25+11.35 'MD'
Y = 461,693.6492
X = 790,504.4290



CTY-PD WB
PI STA = 178+81.21 'WB'
Y = 461,357.7410
X = 789,786.8050

CTY-PD WB
PI STA = 181+93.89 'WB'
Y = 461,358.9890
X = 790,099.4880

CTY-PD EB
PI STA = 177+28.60 'EB'
Y = 461,336.3350
X = 789,633.4720

CTY-PD EB
PI STA = 181+94.69 'EB'
Y = 461,337.6650
X = 790,099.5650

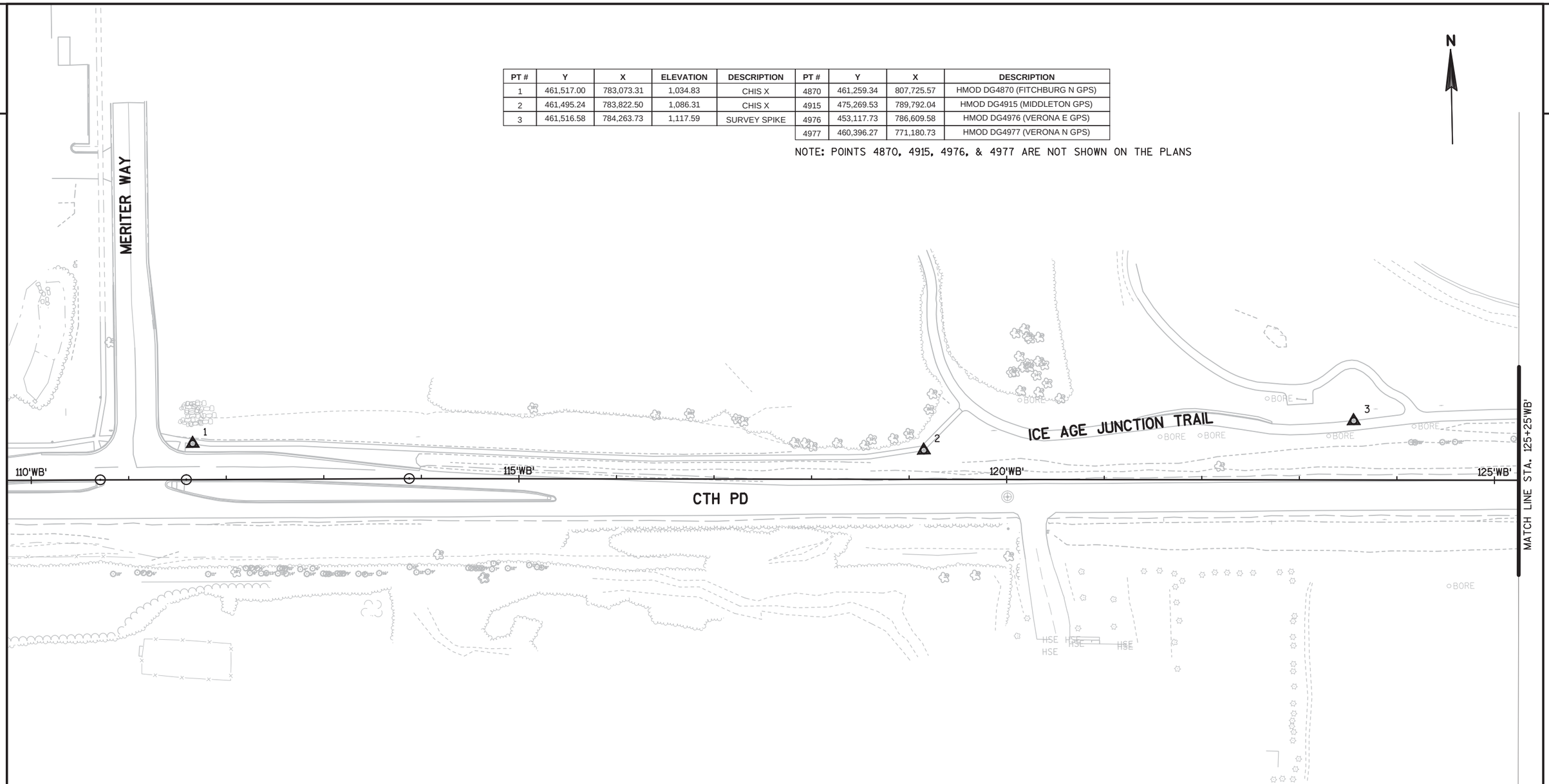
LCL-MAPLE GROVE DRIVE
PI STA = 22+01.51 'MD'
Y = 461,383.8427
X = 790,499.8110

LCL-MAPLE GROVE DRIVE
PI STA = 21+18.09 'MD'
Y = 461,300.4774
X = 790,502.8626

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	ALIGNMENT DIAGRAM: CTH PD	SHEET 328	E

PT #	Y	X	ELEVATION	DESCRIPTION	PT #	Y	X	DESCRIPTION
1	461,517.00	783,073.31	1,034.83	CHIS X	4870	461,259.34	807,725.57	HMOD DG4870 (FITCHBURG N GPS)
2	461,495.24	783,822.50	1,086.31	CHIS X	4915	475,269.53	789,792.04	HMOD DG4915 (MIDDLETON GPS)
3	461,516.58	784,263.73	1,117.59	SURVEY SPIKE	4976	453,117.73	786,609.58	HMOD DG4976 (VERONA E GPS)
					4977	460,396.27	771,180.73	HMOD DG4977 (VERONA N GPS)

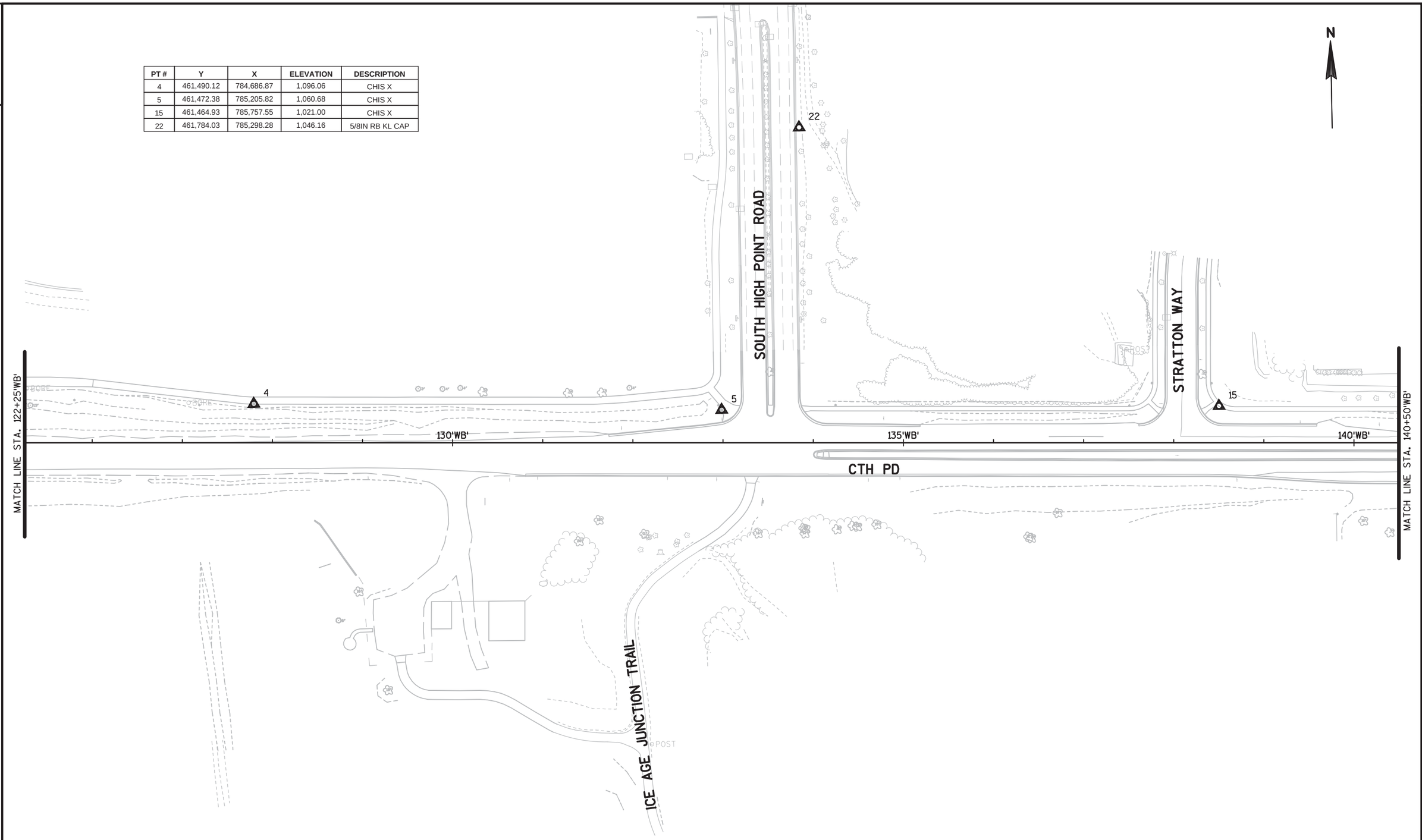
NOTE: POINTS 4870, 4915, 4976, & 4977 ARE NOT SHOWN ON THE PLANS



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CONTROL POINTS	SHEET 329	E

2

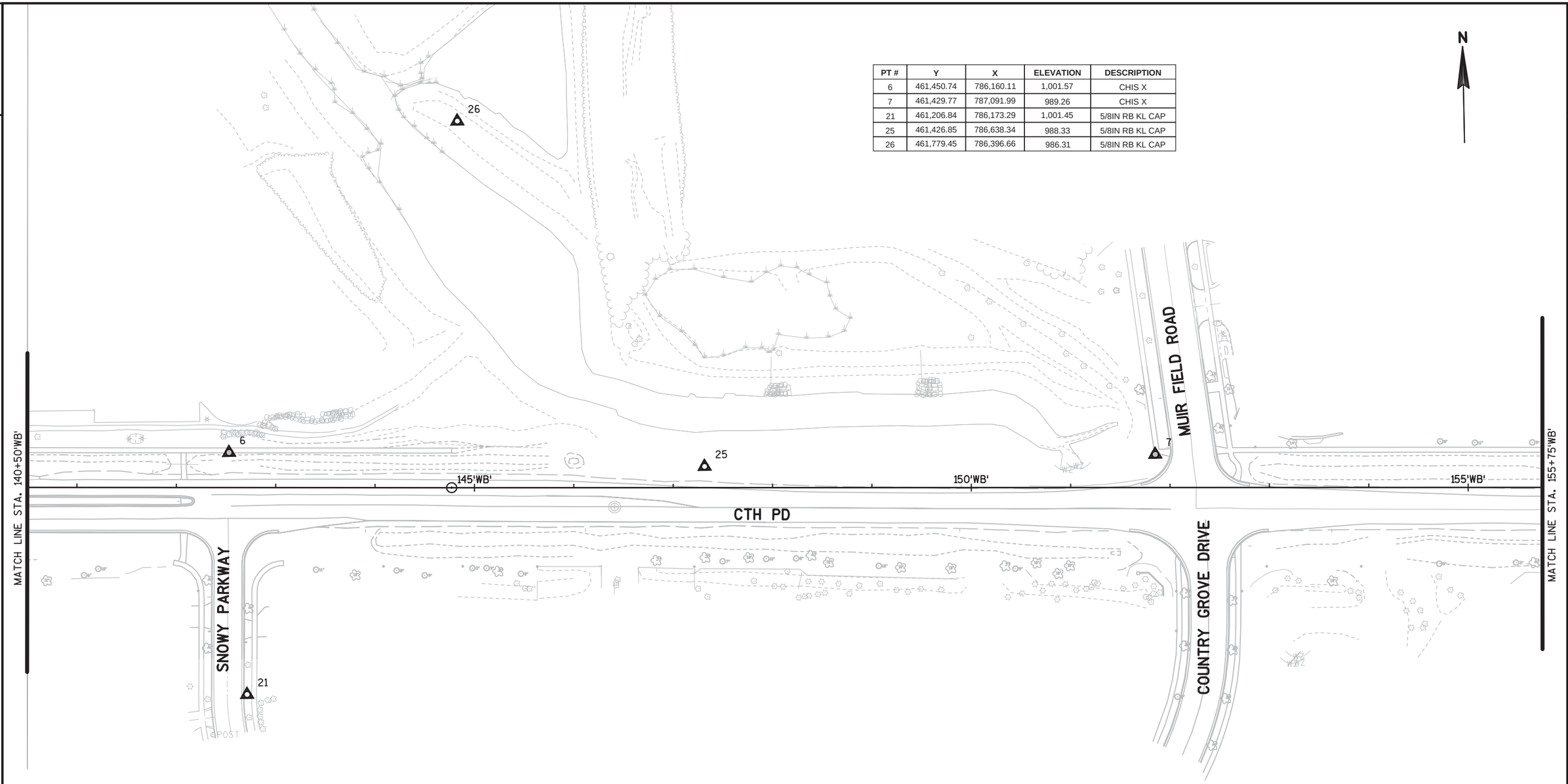
PT #	Y	X	ELEVATION	DESCRIPTION
4	461,490.12	784,686.87	1,096.06	CHIS X
5	461,472.38	785,205.82	1,060.68	CHIS X
15	461,464.93	785,757.55	1,021.00	CHIS X
22	461,784.03	785,298.28	1,046.16	5/8IN RB KL CAP



2

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CONTROL POINTS	SHEET 330	E

PT #	Y	X	ELEVATION	DESCRIPTION
6	461,450.74	786,160.11	1,001.57	CHIS X
7	461,429.77	787,091.99	989.26	CHIS X
21	461,206.84	786,173.29	1,001.45	5/8IN RB KL CAP
25	461,426.85	786,638.34	988.33	5/8IN RB KL CAP
26	461,779.45	786,396.66	986.31	5/8IN RB KL CAP



2

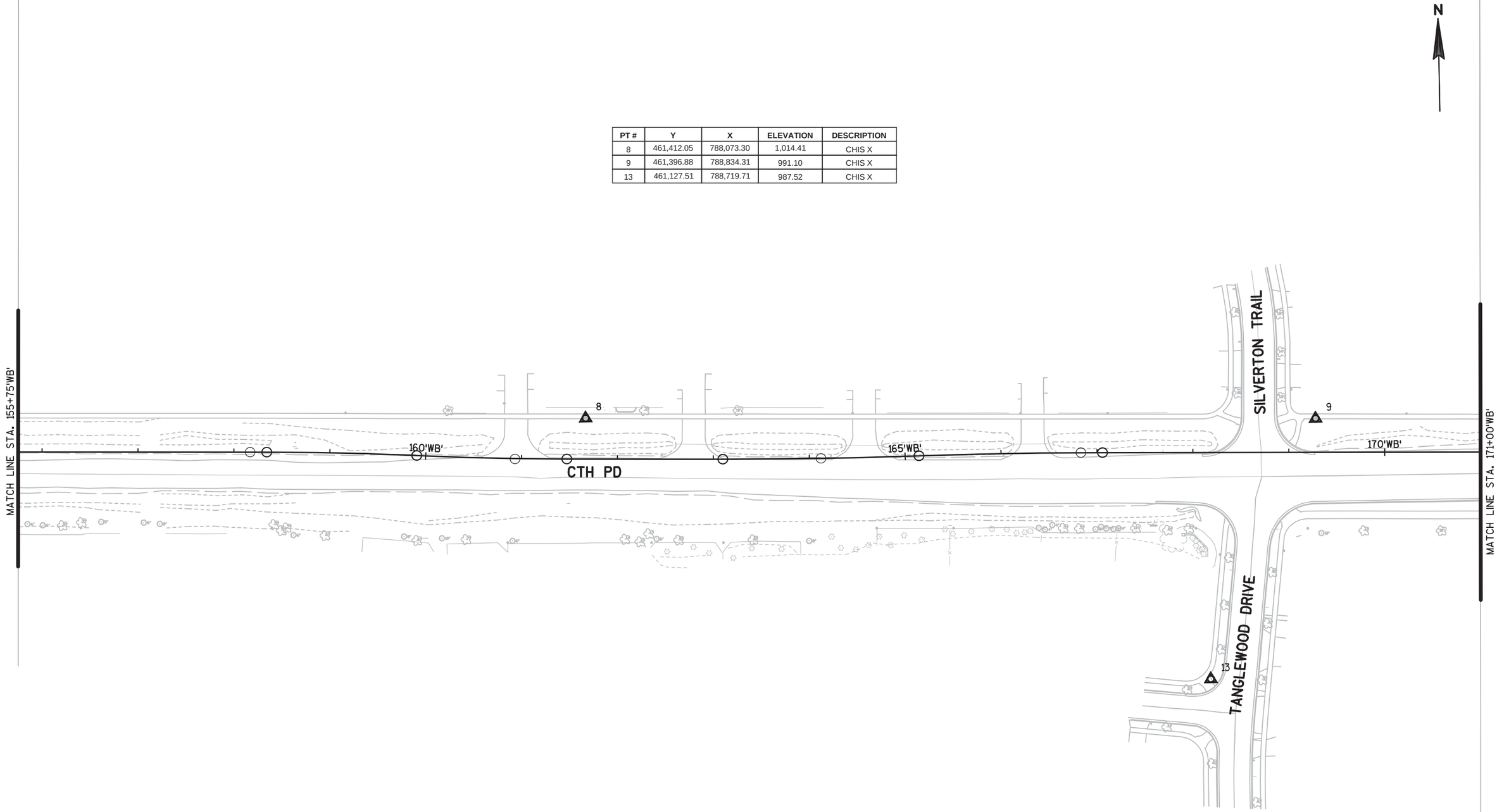
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CONTROL POINTS	SHEET 331	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\027301-CP.DWG
LAYOUT NAME - SHEET - (3)
PLOT DATE : 8/24/2016 3:54 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

PT #	Y	X	ELEVATION	DESCRIPTION
8	461,412.05	788,073.30	1,014.41	CHIS X
9	461,396.88	788,834.31	991.10	CHIS X
13	461,127.51	788,719.71	987.52	CHIS X



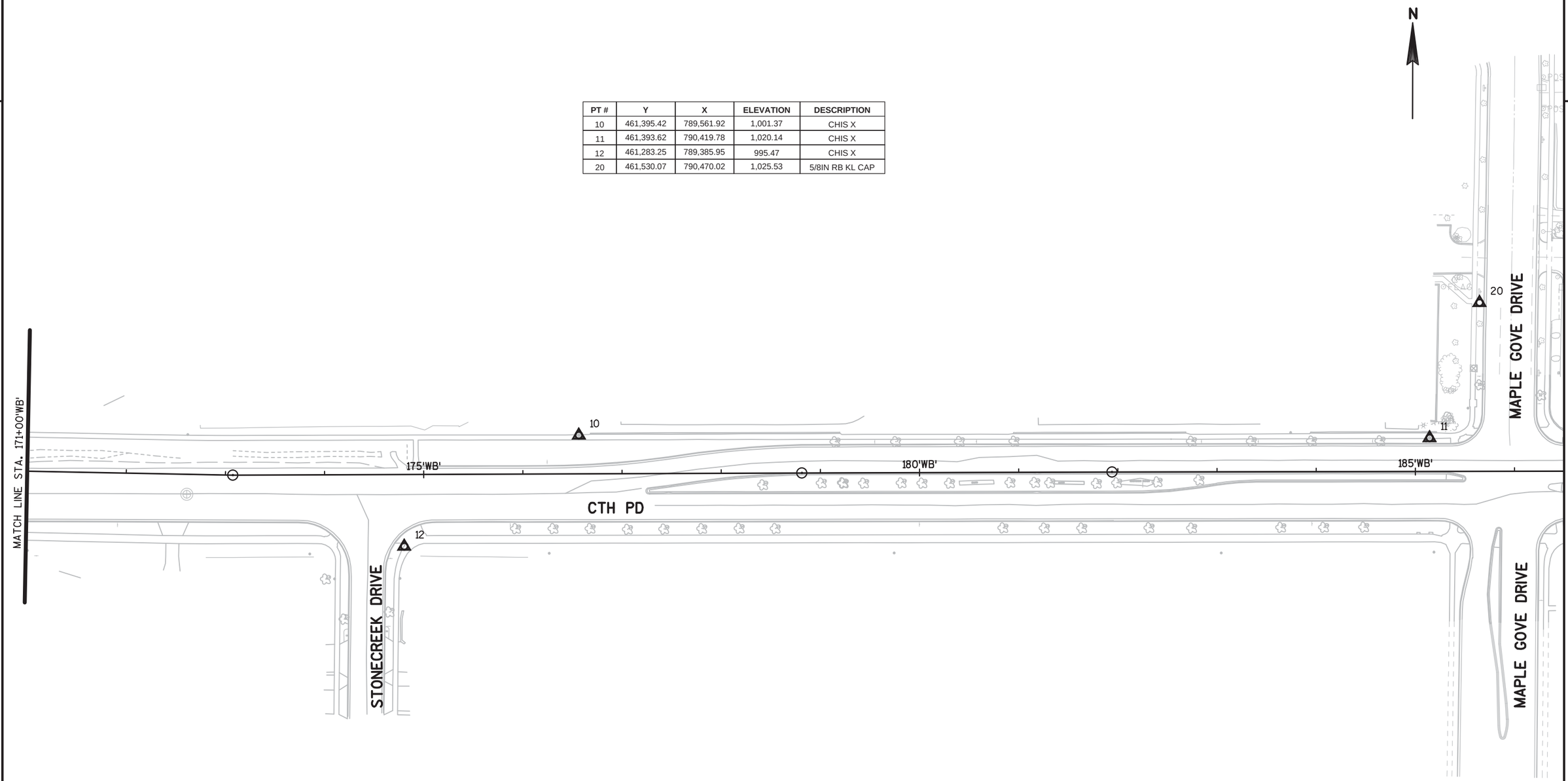
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CONTROL POINTS	SHEET 332	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\027301-CP.DWG
LAYOUT NAME - SHEET - (4)

PLOT DATE : 8/24/2016 3:54 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

PT #	Y	X	ELEVATION	DESCRIPTION
10	461,395.42	789,561.92	1,001.37	CHIS X
11	461,393.62	790,419.78	1,020.14	CHIS X
12	461,283.25	789,385.95	995.47	CHIS X
20	461,530.07	790,470.02	1,025.53	5/8IN RB KL CAP



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CONTROL POINTS	SHEET 333	E

					5992-09-31	5992-09-32
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0010	201.0105	Clearing	STA	57.000	57.000	
0020	201.0120	Clearing	ID	251.000	251.000	
0030	201.0205	Grubbing	STA	57.000	57.000	
0040	201.0220	Grubbing	ID	251.000	251.000	
0050	203.0100	Removing Small Pipe Culverts	EACH	7.000	7.000	
0060	203.0500.S	Removing Old Structure Over Waterway (station) 001. STA. 151+23.39 WB	LS	1.000	1.000	
0070	204.0100	Removing Pavement	SY	115.000	115.000	
0080	204.0110	Removing Asphaltic Surface	SY	5,900.000	5,900.000	
0090	204.0115	Removing Asphaltic Surface Butt Joints	SY	2,600.000	2,600.000	
0100	204.0150	Removing Curb & Gutter	LF	9,900.000	9,900.000	
0110	204.0155	Removing Concrete Sidewalk	SY	3,800.000	3,800.000	
0120	204.0165	Removing Guardrail	LF	125.000	125.000	
0130	204.0195	Removing Concrete Bases	EACH	16.000	16.000	
0140	204.0210	Removing Manholes	EACH	5.000	5.000	
0150	204.0220	Removing Inlets	EACH	33.000	33.000	
0160	204.0245	Removing Storm Sewer (size) 001. 12-INCH	LF	285.000	285.000	
0170	204.0245	Removing Storm Sewer (size) 002. 15-INCH	LF	100.000	100.000	
0180	204.0245	Removing Storm Sewer (size) 003. 18-INCH	LF	200.000	200.000	
0190	204.0245	Removing Storm Sewer (size) 004. 21-INCH	LF	225.000	225.000	
0200	204.0245	Removing Storm Sewer (size) 005. 24-INCH	LF	960.000	960.000	
0210	204.0245	Removing Storm Sewer (size) 006. 30-INCH	LF	20.000	20.000	
0220	204.0245	Removing Storm Sewer (size) 007. HE 29-INCH x 45-INCH	LF	185.000	185.000	
0230	204.9060.S	Removing (item description) 001. AND SALVAGING DANE COUNTY PARKS SIGNS	EACH	2.000	2.000	
0240	204.9060.S	Removing (item description) 002. AND SALVAGING ICE AGE TRAIL SIGNS	EACH	2.000	2.000	
0250	204.9090.S	Removing (item description) 001. BOULDER RETAINING WALL	LF	185.000	185.000	
0260	205.0100	Excavation Common	CY	123,327.000	123,327.000	
0270	205.0200	Excavation Rock	CY	47,159.000	47,159.000	
0280	206.1000	Excavation for Structures Bridges (structure) 001. B-13-847	LS	1.000	1.000	
0290	206.2000	Excavation for Structures Culverts (structure) 001. B-13-848	LS	1.000	1.000	
0300	206.3000	Excavation for Structures Retaining Walls (structure) 001. R-13-309	LS	1.000	1.000	
0310	206.3000	Excavation for Structures Retaining Walls (structure) 002. R-13-310	LS	1.000	1.000	
0320	209.0300.S	Backfill Coarse Aggregate (size) 001. NO 1	CY	125.000	125.000	

					5992-09-31	5992-09-32
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0330	210.1500	Backfill Structure Type A	TON	7,960.000	7,960.000	
0340	210.2500	Backfill Structure Type B	TON	430.000	430.000	
0350	211.0100	Prepare Foundation for Asphaltic Paving (project) 001. 5992-09-31	LS	1.000	1.000	
0360	213.0100	Finishing Roadway (project) 001. 5992-09-31	EACH	1.000	1.000	
0370	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,400.000	1,400.000	
0380	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	59,000.000	59,000.000	
0390	311.0110	Breaker Run	TON	200.000	200.000	
0400	312.0110	Select Crushed Material	TON	65,100.000	65,100.000	
0410	415.0090	Concrete Pavement 9-Inch	SY	35.000	35.000	
0420	416.0170	Concrete Driveway 7-Inch	SY	400.000	400.000	
0430	416.0270	Concrete Driveway HES 7-Inch	SY	150.000	150.000	
0440	440.4410	Incentive IRI Ride	DOL	10,200.000	10,200.000	
0450	450.4000	HMA Cold Weather Paving	TON	6,900.000	6,900.000	
0460	455.0605	Tack Coat	GAL	3,600.000	3,600.000	
0470	460.2000	Incentive Density HMA Pavement	DOL	12,780.000	12,780.000	
0480	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	28,050.000	28,050.000	
0490	460.5223	HMA Pavement 3 LT 58-28 S	TON	1,900.000	1,900.000	
0500	460.6223	HMA Pavement 3 MT 58-28 S	TON	11,300.000	11,300.000	
0510	460.6424	HMA Pavement 4 MT 58-28 H	TON	6,900.000	6,900.000	
0520	465.0110	Asphaltic Surface Patching	TON	180.000	180.000	
0530	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	150.000	150.000	
0540	465.0125	Asphaltic Surface Temporary	TON	1,800.000	1,800.000	
0550	465.0310	Asphaltic Curb	LF	970.000	970.000	
0560	465.0315	Asphaltic Flumes	SY	80.000	80.000	
0570	502.0100	Concrete Masonry Bridges	CY	450.000	450.000	
0580	502.3100	Expansion Device (structure) 001. B-13-847	LS	1.000	1.000	
0590	502.3200	Protective Surface Treatment	SY	255.000	255.000	
0600	502.4205	Adhesive Anchors No. 5 Bar	EACH	56.000	56.000	
0610	504.0100	Concrete Masonry Culverts	CY	167.000	167.000	
0620	504.0500	Concrete Masonry Retaining Walls	CY	1,125.000	1,125.000	
0630	505.0400	Bar Steel Reinforcement HS Structures	LB	93,560.000	93,560.000	
0640	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	116,040.000	116,040.000	
0650	506.8005.S	Prefabricated Steel Truss Pedestrian Bridge LRFD (structure) 001. B-13-847	LS	1.000	1.000	
0660	511.1300	Temporary Shoring (location) 001. STA 118+70 'WB' - 132+61 'WB'	SF	13,500.000	13,500.000	
0670	516.0500	Rubberized Membrane Waterproofing	SY	102.000	102.000	
0680	517.1000	Painting Epoxy System Steel Truss (structure) 001. B-13-847	LS	1.000	1.000	
0690	517.1015.S	Concrete Staining Multi-Color (structure) 001. B-13-847	SF	3,020.000	3,020.000	

					5992-09-31	5992-09-32
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0700	517.1015.S	Concrete Staining Multi-Color (structure) 002. R-13-309	SF	4,630.000	4,630.000	
0710	517.1015.S	Concrete Staining Multi-Color (structure) 003. R-13-310	SF	6,160.000	6,160.000	
0720	517.1050.S	Architectural Surface Treatment (structure) 001. B-13-847	SF	2,440.000	2,440.000	
0730	517.1050.S	Architectural Surface Treatment (structure) 002. R-13-309	SF	3,410.000	3,410.000	
0740	517.1050.S	Architectural Surface Treatment (structure) 003. R-13-310	SF	5,040.000	5,040.000	
0750	520.8000	Concrete Collars for Pipe	EACH	19.000	19.000	
0760	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	1.000	1.000	
0770	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	1.000	1.000	
0780	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000	
0790	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	2.000	2.000	
0800	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	1.000	1.000	
0810	522.1048	Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	EACH	3.000	3.000	
0820	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	100.000	100.000	
0830	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	15,000.000	15,000.000	
0840	601.0600	Concrete Curb Pedestrian	LF	480.000	480.000	
0850	602.0410	Concrete Sidewalk 5-Inch	SF	44,000.000	44,000.000	
0860	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	800.000	800.000	
0870	603.8000	Concrete Barrier Temporary Precast Delivered	LF	5,100.000	5,100.000	
0880	603.8125	Concrete Barrier Temporary Precast Installed	LF	6,500.000	6,500.000	
0890	604.0400	Slope Paving Concrete	SY	56.000	56.000	
0900	606.0200	Riprap Medium	CY	170.000	170.000	
0910	606.0300	Riprap Heavy	CY	30.000	30.000	
0920	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	670.000	670.000	
0930	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	1,092.000	1,092.000	
0940	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	128.000	128.000	
0950	608.0421	Storm Sewer Pipe Reinforced Concrete Class IV 21-Inch	LF	48.000	48.000	
0960	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	3,173.000	3,173.000	
0970	608.0427	Storm Sewer Pipe Reinforced Concrete Class IV 27-Inch	LF	246.000	246.000	

					5992-09-31	5992-09-32
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0980	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	876.000	876.000	
0990	608.0436	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	LF	233.000	233.000	
1000	608.0442	Storm Sewer Pipe Reinforced Concrete Class IV 42-Inch	LF	38.000	38.000	
1010	608.0448	Storm Sewer Pipe Reinforced Concrete Class IV 48-Inch	LF	83.000	83.000	
1020	611.0410	Reconstructing Catch Basins	EACH	5.000	5.000	
1030	611.0612	Inlet Covers Type C	EACH	4.000	4.000	
1040	611.2003	Manholes 3-FT Diameter	EACH	4.000	4.000	
1050	611.2004	Manholes 4-FT Diameter	EACH	32.000	32.000	
1060	611.2005	Manholes 5-FT Diameter	EACH	6.000	6.000	
1070	611.2006	Manholes 6-FT Diameter	EACH	5.000	5.000	
1080	611.2007	Manholes 7-FT Diameter	EACH	1.000	1.000	
1090	611.3230	Inlets 2x3-FT	EACH	56.000	56.000	
1100	611.8110	Adjusting Manhole Covers	EACH	7.000	7.000	
1110	611.8120.S	Cover Plates Temporary	EACH	8.000	8.000	
1120	611.9800.S	Pipe Grates	EACH	1.000	1.000	
1130	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	4,640.000	4,640.000	
1140	614.0905	Crash Cushions Temporary	EACH	6.000	6.000	
1150	619.1000	Mobilization	EACH	1.000	0.990	0.010
1160	620.0300	Concrete Median Sloped Nose	SF	215.000	215.000	
1170	621.0100	Landmark Reference Monuments	EACH	3.000	3.000	
1180	623.0200	Dust Control Surface Treatment	SY	88,000.000	88,000.000	
1190	624.0100	Water	MGAL	2,000.000	2,000.000	
1200	625.0100	Topsoil	SY	54,600.000	54,600.000	
1210	625.0500	Salvaged Topsoil	SY	22,500.000	22,500.000	
1220	627.0200	Mulching	SY	8,500.000	8,500.000	
1230	628.1104	Erosion Bales	EACH	24.000	24.000	
1240	628.1504	Silt Fence	LF	3,200.000	3,200.000	
1250	628.1520	Silt Fence Maintenance	LF	6,240.000	6,240.000	
1260	628.1905	Mobilizations Erosion Control	EACH	14.000	14.000	
1270	628.1910	Mobilizations Emergency Erosion Control	EACH	7.000	7.000	
1280	628.1920	Cleaning Sediment Basins	CY	13.000	13.000	
1290	628.2008	Erosion Mat Urban Class I Type B	SY	34,500.000	34,500.000	
1300	628.2027	Erosion Mat Class II Type C	SY	600.000	600.000	
1310	628.2031	Erosion Mat Class III Type A	SY	1,500.000	1,500.000	
1320	628.7005	Inlet Protection Type A	EACH	108.000	108.000	
1330	628.7015	Inlet Protection Type C	EACH	120.000	120.000	

					5992-09-31	5992-09-32
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
1340	628.7020	Inlet Protection Type D	EACH	8.000	8.000	
1350	628.7504	Temporary Ditch Checks	LF	1,600.000	1,600.000	
1360	628.7555	Culvert Pipe Checks	EACH	30.000	30.000	
1370	628.7560	Tracking Pads	EACH	30.000	30.000	
1380	629.0210	Fertilizer Type B	CWT	45.000	45.000	
1390	630.0140	Seeding Mixture No. 40	LB	150.000	150.000	
1400	630.0200	Seeding Temporary	LB	210.000	210.000	
1410	631.0300	Sod Water	MGAL	825.000	825.000	
1420	631.1000	Sod Lawn	SY	16,600.000	16,600.000	
1430	632.0101	Trees (species) (size) (root) 001. Juniper Hill Dundee 5' Ht B&B	EACH	4.000	4.000	
1440	632.0101	Trees (species) (size) (root) 002. Juniper Mountbatten 5' Ht B&B	EACH	3.000	3.000	
1450	632.0101	Trees (species) (size) (root) 003. Spruce Black Hills 7' Ht B&B	EACH	2.000	2.000	
1460	632.0101	Trees (species) (size) (root) 004. Hawthorn Winter King 2.5" Cal B&B	EACH	1.000	1.000	
1470	632.0201	Shrubs (species) (size) (root) 001. Spirea Goldflame CG #3	EACH	2.000	2.000	
1480	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	20.000	20.000	
1490	633.5200	Markers Culvert End	EACH	1.000	1.000	
1500	637.2210	Signs Type II Reflective H	SF	696.300	696.300	
1510	637.2215	Signs Type II Reflective H Folding	SF	104.440	104.440	
1520	638.2102	Moving Signs Type II	EACH	5.000	5.000	
1530	638.2602	Removing Signs Type II	EACH	65.000	65.000	
1540	638.3000	Removing Small Sign Supports	EACH	57.000	57.000	
1550	640.1303.S	Pond Liner Clay	CY	1,000.000	1,000.000	
1560	642.5201	Field Office Type C	EACH	1.000	1.000	
1570	642.6001	Field Laboratory	EACH	1.000	1.000	
1580	643.0100	Traffic Control (project) 001. 5992-09-31	EACH	1.000	1.000	
1590	643.0300	Traffic Control Drums	DAY	97,100.000	97,100.000	
1600	643.0410	Traffic Control Barricades Type II	DAY	5,500.000	5,500.000	
1610	643.0420	Traffic Control Barricades Type III	DAY	17,000.000	17,000.000	
1620	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	700.000	700.000	
1630	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	700.000	700.000	
1640	643.0705	Traffic Control Warning Lights Type A	DAY	34,200.000	34,200.000	
1650	643.0715	Traffic Control Warning Lights Type C	DAY	12,900.000	12,900.000	
1660	643.0800	Traffic Control Arrow Boards	DAY	565.000	565.000	
1670	643.0900	Traffic Control Signs	DAY	23,000.000	23,000.000	
1680	643.1000	Traffic Control Signs Fixed Message	SF	310.000	310.000	
1690	643.1050	Traffic Control Signs PCMS	DAY	920.000	920.000	

					5992-09-31	5992-09-32
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
1700	643.2000	Traffic Control Detour (project) 001. 5992-09-31	EACH	1.000	1.000	
1710	643.3000	Traffic Control Detour Signs	DAY	9,700.000	9,700.000	
1720	644.1410.S	Temporary Pedestrian Surface Asphalt	SF	4,000.000	4,000.000	
1730	644.1420.S	Temporary Pedestrian Surface Plywood	SF	100.000	100.000	
1740	644.1430.S	Temporary Pedestrian Surface Plate	SF	100.000	100.000	
1750	644.1601.S	Temporary Curb Ramp	EACH	20.000	20.000	
1760	644.1616.S	Temporary Pedestrian Safety Fence	LF	10,000.000	10,000.000	
1770	645.0105	Geotextile Type C	SY	290.000	290.000	
1780	645.0120	Geotextile Type HR	SY	400.000	400.000	
1790	646.0106	Pavement Marking Epoxy 4-Inch	LF	8,900.000	8,900.000	
1800	646.0116	Pavement Marking Epoxy 6-Inch	LF	15,500.000	15,500.000	
1810	646.0126	Pavement Marking Epoxy 8-Inch	LF	3,300.000	3,300.000	
1820	646.0600	Removing Pavement Markings	LF	18,000.000	18,000.000	
1830	647.0156	Pavement Marking Arrows Epoxy Type 1	EACH	2.000	2.000	
1840	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	25.000	25.000	
1850	647.0206	Pavement Marking Arrows Bike Lane Epoxy	EACH	16.000	16.000	
1860	647.0306	Pavement Marking Symbols Bike Lane Epoxy	EACH	16.000	16.000	
1870	647.0356	Pavement Marking Words Epoxy	EACH	16.000	16.000	
1880	647.0456	Pavement Marking Curb Epoxy	LF	370.000	370.000	
1890	647.0576	Pavement Marking Stop Line Epoxy 24-Inch	LF	420.000	420.000	
1900	647.0606	Pavement Marking Island Nose Epoxy	EACH	15.000	15.000	
1910	647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	485.000	485.000	
1920	647.0763	Pavement Marking Crosswalk Paint 6-Inch	LF	1,750.000	1,750.000	
1930	647.0766	Pavement Marking Crosswalk Epoxy 6-Inch	LF	1,025.000	1,025.000	
1940	647.0776	Pavement Marking Crosswalk Epoxy 12-Inch	LF	1,680.000	1,680.000	
1950	647.0955	Removing Pavement Markings Arrows	EACH	2.000	2.000	
1960	647.0965	Removing Pavement Markings Words	EACH	1.000	1.000	
1970	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	16,100.000	16,100.000	
1980	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	54,760.000	54,760.000	
1990	649.0801	Temporary Pavement Marking Removable Tape 8-Inch	LF	270.000	270.000	
2000	649.0802	Temporary Pavement Marking Paint 8-Inch	LF	4,430.000	4,430.000	
2010	649.1100	Temporary Pavement Marking Stop Line 18-Inch	LF	780.000	780.000	
2020	649.1802	Temporary Pavement Marking Arrows Paint	EACH	25.000	25.000	
2030	649.2002	Temporary Pavement Marking Words Paint	EACH	24.000	24.000	
2040	649.2100	Temporary Raised Pavement Markers Type I	EACH	6.000	6.000	
2050	650.6500	Construction Staking Structure Layout (structure) 001. B-13-847	LS	1.000	1.000	
2060	650.6500	Construction Staking Structure Layout (structure) 002. B-13-848	LS	1.000	1.000	
2070	650.6500	Construction Staking Structure Layout (structure) 003.	LS	1.000	1.000	

					5992-09-31	5992-09-32
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
		R-13-309				
2080	650.6500	Construction Staking Structure Layout (structure) 004. R-13-310	LS	1.000	1.000	
2090	652.0215	Conduit Rigid Nonmetallic Schedule 40 1 1/4-Inch	LF	40.000	40.000	
2100	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	22,241.000	22,241.000	
2110	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	1,429.000	1,429.000	
2120	652.0325	Conduit Rigid Nonmetallic Schedule 80 2-Inch	LF	2,261.000	2,261.000	
2130	652.0335	Conduit Rigid Nonmetallic Schedule 80 3-Inch	LF	1,788.000	1,788.000	
2140	652.0800	Conduit Loop Detector	LF	1,817.000	1,817.000	
2150	653.0905	Removing Pull Boxes	EACH	2.000	2.000	
2160	654.0110	Concrete Bases Type 10	EACH	7.000	7.000	
2170	655.0230	Cable Traffic Signal 5-14 AWG	LF	1,710.000	1,710.000	
2180	655.0240	Cable Traffic Signal 7-14 AWG	LF	1,078.000	1,078.000	
2190	655.0250	Cable Traffic Signal 9-14 AWG	LF	418.000	418.000	
2200	655.0260	Cable Traffic Signal 12-14 AWG	LF	2,589.000	2,589.000	
2210	655.0615	Electrical Wire Lighting 10 AWG	LF	8,740.000	8,740.000	
2220	655.0620	Electrical Wire Lighting 8 AWG	LF	9,938.000	9,938.000	
2230	655.0630	Electrical Wire Lighting 4 AWG	LF	29,814.000	29,814.000	
2240	655.0800	Loop Detector Wire	LF	4,906.000	4,906.000	
2250	656.0200	Electrical Service Meter Breaker Pedestal (location) 001. CTH PD MEDIAN	LS	1.000	1.000	
2260	656.0200	Electrical Service Meter Breaker Pedestal (location) 002. SOUTH HIGH POINT	LS	1.000	1.000	
2270	656.0200	Electrical Service Meter Breaker Pedestal (location) 003. CTH PD	LS	1.000	1.000	
2280	656.0200	Electrical Service Meter Breaker Pedestal (location) 004. CTH PD-MUIR FIELD	LS	1.000	1.000	
2290	657.0100	Pedestal Bases	EACH	11.000	11.000	
2300	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	39.000	39.000	
2310	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	11.000	11.000	
2320	658.0500	Pedestrian Push Buttons	EACH	23.000	23.000	
2330	658.5069	Signal Mounting Hardware (location) 001. SOUTH HIGH POINT & CTH PD	LS	1.000	1.000	
2340	658.5069	Signal Mounting Hardware (location) 002. COUNTRY GROVE/MUIR FIELD & CTH PD	LS	1.000	1.000	
2350	658.5069	Signal Mounting Hardware (location) 003. MAPLE GROVE & CTH PD	LS	1.000	1.000	
2360	690.0150	Sawing Asphalt	LF	8,700.000	8,700.000	
2370	690.0250	Sawing Concrete	LF	160.000	160.000	
2380	715.0502	Incentive Strength Concrete Structures	DOL	10,452.000	10,452.000	
2390	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,400.000	1,400.000	

					5992-09-31	5992-09-32
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
2400	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	875.000	875.000	
2410	SPV.0035	Special 001. TOPSOIL SPECIAL	CY	11.000	11.000	
2420	SPV.0060	Special 001. INLET COVER TYPE H SPECIAL	EACH	80.000	80.000	
2430	SPV.0060	Special 002. INLET COVERS TERRACE TYPE 3 SPECIAL	EACH	2.000	2.000	
2440	SPV.0060	Special 003. TERRACE INLET TYPE 3 SPECIAL	EACH	4.000	4.000	
2450	SPV.0060	Special 004. MANHOLE COVER TYPE J MODIFIED	EACH	16.000	14.000	2.000
2460	SPV.0060	Special 005. PRECAST SIGN POST BASE	EACH	109.000	109.000	
2470	SPV.0060	Special 006. SIGN POST BASE FOR CONCRETE INSTALLATION	EACH	1.000	1.000	
2480	SPV.0060	Special 008. LOCATE AND REFERENCE PROPERTY CORNERS	EACH	42.000	42.000	
2490	SPV.0060	Special 009. RESET PROPERTY CORNERS	EACH	42.000	42.000	
2500	SPV.0060	Special 010. REMOVE & REPLACE MAILBOXES	EACH	22.000	22.000	
2510	SPV.0060	Special 011. TEMPORARY INLET COVER	EACH	16.000	16.000	
2520	SPV.0060	Special 013. ROCK EXCAVATION FOR CONCRETE BASES	EACH	6.000	6.000	
2530	SPV.0060	Special 014. INLET COVER TYPE H-S SPECIAL	EACH	8.000	8.000	
2540	SPV.0060	Special 015. UTILITY LINE OPENING (ULO)	EACH	30.000	30.000	
2550	SPV.0060	Special 016. DECORATIVE MEDALLION	EACH	2.000	2.000	
2560	SPV.0060	Special 017. MEDALLION CONCRETE STAINING MULTI-COLOR	EACH	2.000	2.000	
2570	SPV.0060	Special 091. STORM SEWER PLUG	EACH	1.000	1.000	
2580	SPV.0060	Special 101. POND OUTLET CONTROL MANHOLE	EACH	2.000	2.000	
2590	SPV.0060	Special 200. SANITARY SEWER TAP	EACH	2.000		2.000
2600	SPV.0060	Special 201. HYDRANTS	EACH	14.000		14.000
2610	SPV.0060	Special 202. WATER VALVE, 6-INCH	EACH	8.000		8.000
2620	SPV.0060	Special 203. WATER VALVE, 8-INCH	EACH	2.000		2.000
2630	SPV.0060	Special 204. WATER VALVE, 12-INCH	EACH	9.000		9.000
2640	SPV.0060	Special 205. CUT-IN OR CONNECT-TO EXISTING WATER SYSTEM	EACH	3.000		3.000
2650	SPV.0060	Special 206. ADJUST WATER VALVE BOX	EACH	34.000		34.000
2660	SPV.0060	Special 208. TEMPORARY WATER MAIN CONNECTION	EACH	3.000		3.000
2670	SPV.0060	Special 209. EXCAVATE TRENCH FOR LIVE TAP	EACH	3.000		3.000
2680	SPV.0060	Special 210. ADJUST MMSD SPECIAL	EACH	3.000		3.000
2690	SPV.0060	Special 211. ADJUST SAS SPECIAL	EACH	7.000		7.000
2700	SPV.0060	Special 212. SANITARY SEWER INTERNAL CHIMNEY SEAL	EACH	1.000		1.000
2710	SPV.0060	Special 213. ADJUST SEWER ACCESS STRUCTURE SPECIAL	EACH	1.000		1.000

					5992-09-31	5992-09-32
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
2720	SPV.0060	Special 214. ABANDON SANITARY SEWER-PLUG PIPE	EACH	2.000		2.000
2730	SPV.0060	Special 215. SANITARY SEWER ACCESS STRUCTURE (4-FOOT DIAMETER)	EACH	2.000		2.000
2740	SPV.0060	Special 250. ELECTRICAL PULL BOX TYPE 1	EACH	41.000	41.000	
2750	SPV.0060	Special 251. ELECTRICAL PULL BOX TYPE 3	EACH	9.000	9.000	
2760	SPV.0060	Special 252. ELECTRICAL PULL BOX TYPE 5	EACH	7.000	7.000	
2770	SPV.0060	Special 253. ELECTRICAL PULL BOX TYPE 7	EACH	2.000	2.000	
2780	SPV.0060	Special 254. ELECTRIC UTILITY ACCESS STRUCTURE	EACH	6.000	6.000	
2790	SPV.0060	Special 255. CONCRETE BASES TYPE G	EACH	7.000	7.000	
2800	SPV.0060	Special 256. CONCRETE BASES TYPE LB-2	EACH	8.000	8.000	
2810	SPV.0060	Special 257. CONCRETE BASES TYPE LB-3	EACH	50.000	50.000	
2820	SPV.0060	Special 258. CONCRETE BASES TYPE LB-8	EACH	1.000	1.000	
2830	SPV.0060	Special 259. CONCRETE BASES TYPE M	EACH	4.000	4.000	
2840	SPV.0060	Special 260. CONCRETE BASES TYPE P	EACH	3.000	3.000	
2850	SPV.0060	Special 261. CONCRETE BASE OFFSET	EACH	1.000	1.000	
2860	SPV.0060	Special 262. CONCRETE BASE TYPE G BASE SPREAD FOOTING	EACH	1.000	1.000	
2870	SPV.0060	Special 263. POLES ALUMINUM 20-FT STREET LIGHT	EACH	8.000	8.000	
2880	SPV.0060	Special 264. POLES 30-FT 11 GAUGE	EACH	54.000	54.000	
2890	SPV.0060	Special 265. POLES 20-FOOT 7 GAUGE	EACH	1.000	1.000	
2900	SPV.0060	Special 266. TRANSFORMER BASES 16-INCH STEEL	EACH	11.000	11.000	
2910	SPV.0060	Special 267. LED LUMINAIRE AND MOUNTING BRACKET TYPE 1	EACH	10.000	10.000	
2920	SPV.0060	Special 268. LED LUMINAIRE AND MOUNTING BRACKET TYPE 2	EACH	79.000	79.000	
2930	SPV.0060	Special 269. LED LUMINAIRE AND MOUNTING BRACKET TYPE 3	EACH	22.000	22.000	
2940	SPV.0060	Special 270. MONTOBUE POLES TYPE 9	EACH	7.000	7.000	
2950	SPV.0060	Special 271. TRAFFIC SIGNAL TROMBONE ARMS ALUMINUM 18-FT	EACH	1.000	1.000	
2960	SPV.0060	Special 272. MONOTUBE ARMS 30-FT	EACH	7.000	7.000	
2970	SPV.0060	Special 273. TRAFFIC SIGNAL HEADS 12-INCH 3-SECTION VERTICAL	EACH	44.000	44.000	
2980	SPV.0060	Special 274. TRAFFIC SIGNAL HEADS 16-INCH PEDESTRIAN WITH COUNTDOWN	EACH	18.000	18.000	
2990	SPV.0060	Special 275. BACKPLATES SIGNAL FACE 3-SECTION 12-INCH	EACH	44.000	44.000	
3000	SPV.0060	Special 276. TRAFFIC SIGNAL CONTROL CABINET	EACH	3.000	3.000	
3010	SPV.0060	Special 277. TRAFFIC SIGNAL CONTROLLER	EACH	3.000	3.000	

					5992-09-31	5992-09-32
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
3020	SPV.0060	Special 278. TRAFFIC SIGNAL ETHERNET SWITCH	EACH	3.000	3.000	
3030	SPV.0060	Special 279. MALFUNCTION MANAGEMENT UNIT	EACH	3.000	3.000	
3040	SPV.0060	Special 280. STREET LIGHT REMOVAL	EACH	9.000	9.000	
3050	SPV.0060	Special 281. LIGHTING CONTROL CABINET	EACH	4.000	4.000	
3060	SPV.0085	Special 001. SEEDING MIXTURE, RANGE PASTURE	LB	18.000	18.000	
3070	SPV.0085	Special 002. SEEDING MIXTURE, SHORT GRASS PRAIRIE	LB	8.000	8.000	
3080	SPV.0085	Special 003. NO MOW LAWN SEED	LB	3,900.000	3,900.000	
3090	SPV.0085	Special 004. SEEDING MIXTURE, DETENTION BASIN	LB	110.000	110.000	
3100	SPV.0090	Special 001. CONCRETE CURB AND GUTTER 24-INCH TYPE D SPECIAL	LF	14,700.000	14,700.000	
3110	SPV.0090	Special 003. SIGN POST	LF	420.000	420.000	
3120	SPV.0090	Special 004. REFLECTIVE SIGN POST	LF	1,148.000	1,148.000	
3130	SPV.0090	Special 005. RAILING STEEL PEDESTRIAN B-13-847	LF	450.000	450.000	
3140	SPV.0090	Special 006. Railing Steel Pedestrian B-13-848	LF	77.000	77.000	
3150	SPV.0090	Special 007. RAILING STREEL PEDESTRIAN R-13-309	LF	650.000	650.000	
3160	SPV.0090	Special 008. RAILING STEEL PEDESTRIAN R-13-310	LF	442.000	442.000	
3170	SPV.0090	Special 010. SPLIT RAIL FENCE	LF	153.000	153.000	
3180	SPV.0090	Special 011. STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 48-INCH SPECIAL HALF SECTION	LF	54.000	54.000	
3190	SPV.0090	Special 012. Landscape Fence Protection	LF	25.000	25.000	
3200	SPV.0090	Special 201. SELECT FILL FOR SANITARY SEWER	LF	464.000		464.000
3210	SPV.0090	Special 203. ROCK EXCAVATION WATER MAIN	LF	600.000		600.000
3220	SPV.0090	Special 204. WATER MAIN, 6-INCH	LF	205.000		205.000
3230	SPV.0090	Special 205. WATER MAIN, 8-INCH	LF	291.000		291.000
3240	SPV.0090	Special 206. WATER MAIN, 12-INCH	LF	2,556.000		2,556.000
3250	SPV.0090	Special 207. WATER MAIN INSULATION	LF	232.000		232.000
3260	SPV.0090	Special 208. REMOVE SANITARY SEWER PIPE	LF	412.000		412.000
3270	SPV.0090	Special 210. SANITARY SEWER PIPE PVC, 8-INCH	LF	52.000		52.000
3280	SPV.0090	Special 211. SANITARY SEWER PRESSURE PIPE (C900), 10-INCH	LF	350.000		350.000
3290	SPV.0090	Special 212. SANITARY SEWER PIPE PVC 10-INCH	LF	62.000		62.000
3300	SPV.0090	Special 250. ELECTRICAL WIRE LIGHTING 14-3 UF GROUNDED	LF	3,765.000	3,765.000	
3310	SPV.0090	Special 251. LOOP DETECTOR LEAD-IN CABLE SPECIAL	LF	5,486.000	5,486.000	
3320	SPV.0090	Special 252. FIBER OPTIC CABLE 72-COUNT	LF	6,280.000	6,280.000	
3330	SPV.0105	Special 001. SURVEY PROJECT 5992-09-31	LS	1.000	1.000	
3340	SPV.0105	Special 002. DETENTION POND MAINTENANCE	LS	1.000	1.000	

					5992-09-31	5992-09-32
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
3350	SPV.0105	Special 003. CONSTRUCTION SITE MAINTENANCE-MOWING	LS	1.000	1.000	
3360	SPV.0105	Special 004. Salvage Store And Re-Set Landscape Cobbles	LS	1.000	1.000	
3370	SPV.0105	Special 200. WASTEWATER CONTROL 300 GPM	LS	1.000		1.000
3380	SPV.0105	Special 201. CONSTRUCTION STAKING SANITARY SEWER	LS	1.000		1.000
3390	SPV.0105	Special 202. CONSTRUCTION STAKING WATER MAIN	LS	1.000		1.000
3400	SPV.0105	Special 203. PROJECT DEWATERING (SANITARY SEWER)	LS	1.000		1.000
3410	SPV.0105	Special 250. OPTICAL SIGNAL PREEMPT	LS	1.000	1.000	
3420	SPV.0105	Special 251. TEMPORARY TRAFFIC SIGNALS (CTH PD & SOUTH HIGH POINT)	LS	1.000	1.000	
3430	SPV.0105	Special 252. TEMPORARY TRAFFIC SIGNALS (CTH PD & MAPLE GROVE)	LS	1.000	1.000	
3440	SPV.0165	Special 001. WALL MODULAR BLOCK GRAVITY LRFD	SF	615.000	615.000	
3450	SPV.0170	Special 001. PAVEMENT CLEANUP PROJECT 5992-09-31	STA	171.000	171.000	
3460	SPV.0180	Special 001. GEOGRID REINFORCEMENT	SY	8,800.000	8,800.000	
3470	SPV.0180	Special 002. EROSION MAT, CLASS I, TYPE B FOR SHORT GRASS PRAIRIE	SY	3,800.000	3,800.000	
3480	SPV.0180	Special 003. Shredded Hardwood Bark Mulch 3" Depth	SY	6.000	6.000	

CLEARING AND GRUBBING

CATEOGRY	STATION - STATION	OFFSET	201.0105 CLEARING (STA)	201.0120 CLEARING (ID)	201.0205 GRUBBING (STA)	201.0220 GRUBBING (ID)
0010	CTH PD (WESTBOUND)					
	110+63 WB - 133+59 WB	---	23	---	23	---
	174+44 WB - 185+95 WB	---	12	---	12	---
	CTH PD (EASTBOUND)					
	110+63 EB - 133+59 EB	---	23	---	23	---
	136+68 EB	85' RT	---	12	---	12
	136+41 EB	87' RT	---	9	---	9
	136+70 EB	59' RT	---	17	---	17
	146+83 EB	54' RT	---	7	---	7
	147+32 EB	52' RT	---	5	---	5
	150+65 EB	57' RT	---	10	---	10
	155+48 EB	57' RT	---	3	---	3
	155+67 EB	57' RT	---	5	---	5
	155+85 EB	57' RT	---	6	---	6
	156+21 EB	57' RT	---	5	---	5
	156+41 EB	54' RT	---	3	---	3
	156+61 EB	54' RT	---	5	---	5
	157+06 EB	55' RT	---	6	---	6
	157+23 EB	56' RT	---	8	---	8
	158+42 EB	57' RT	---	5	---	5
	162+33 EB	66' RT	---	4	---	4
	166+55 EB	55' RT	---	4	---	4
	179+01 EB	11' LT	---	4	---	4
	179+24 EB	11' LT	---	4	---	4
	179+24 EB	11' LT	---	4	---	4
	179+24 EB	11' LT	---	4	---	4
	179+44 EB	10' LT	---	4	---	4
	179+82 EB	11' LT	---	4	---	4
	180+03 EB	10' LT	---	4	---	4
	180+92 EB	11' LT	---	3	---	3
	176+31 EB	35' RT	---	3	---	3
	176+68 EB	35' RT	---	5	---	5
	177+06 EB	36' RT	---	4	---	4
	SOUTH HIGH POINT ROAD					
	20+87 HP	5' LT	---	6	---	6
	STRATTON WAY					
	30+76 SW	23' RT	---	3	---	3
	MUIR FIELD ROAD					
	55+06 CM	22' RT	---	8	---	8
	55+57 CM	51' LT	---	5	---	5
	55+60 CM	21' RT	---	4	---	4
	COUNTRY GROVE DRIVE					
	52+86 CM	29' RT	---	8	---	8
	52+90 CM	19' LT	---	8	---	8
	53+35 CM	29' RT	---	7	---	7
	53+43 CM	18' RT	---	7	---	7
	TANGLEWOOD DRIVE					
	72+92 TS	23' RT	---	13	---	13
	72+97 TS	23' LT	---	14	---	14
	MAPLE GROVE DRIVE					
	22+64 MG	30' LT	---	15	---	15
PROJECT 5992-09-31 TOTALS			**57**	**251**	**57**	**251**

REMOVING SMALL PIPE CULVERT

CATEGORY	STAGE	STATION	OFFSET	203.0100 REMOVING SMALL PIPE CULVERT (EACH)
0010	STAGE 2			
		CTH PD (WESTBOUND)		
		142+06 'WB'	23' LT	1
		147+98 'WB'	101' LT	1
		149+51 'WB'	104' LT	1
		162+80 'WB'	15' LT	1
		164+57 'WB'	12' LT	1
		166+31 'WB'	10' LT	1
	STAGE 3			
		CTH PD (EASTBOUND)		
		120+28 'EB'	36' RT	1
PROJECT 5992-09-31 TOTALS				**7**

REMOVING PAVEMENT

CATEGORY	STAGE	STATION TO STATION	204.0100 (SY)
0010	STAGE 2		
		MUIR FIELD ROAD	
		54+50 'CM' - 57+00 'CM'	49
	STAGE 2 TOTAL		49
	STAGE 3		
		CTH PD (EASTBOUND)	
		168+69 'EB' - 174+44 'EB'	38
		MAPLE GROVE DRIVE	
		22+00 'MD' - 24+61 'MD'	28
	STAGE 3 TOTAL		66
PROJECT 5992-09-31 TOTALS			**115**

REMOVING ASPHALTIC SURFACE

CATEGORY	STAGE	STATION TO STATION	204.0110 (SY)
0010	STAGE 3		
		CTH PD (WESTBOUND)	
		142+52 'WB' - 152+32 'WB'	102
		152+32 'WB' - 168+69 'WB'	256
		CTH PD (EASTBOUND)	
		110+63 'EB' - 133+59 'EB'	3,127
		142+52 'EB' - 152+32 'EB'	247
		168+69 'EB' - 174+44 'EB'	346
		SOUTH HIGH POINT ROAD	
		20+00 'HP' - 24+72 'HP'	167
	STAGE 3 TOTAL		4,244
	STAGE 4		
		CTH PD (WESTBOUND)	
		138+08 'WB' - 142+52 'WB'	115
		CTH PD (EASTBOUND)	
		133+59 'EB' - 138+08 'EB'	1056
		174+44 'EB' - 185+95 'EB'	485
	STAGE 4 TOTAL		1,656
PROJECT 5992-09-31 TOTALS			**5,900**

REMOVING CURB AND GUTTER

CATEGORY	STAGE	STATION TO STATION	204.0150 REMOVING CURB AND GUTTER (LF)
0010	STAGE 1		
		CTH PD (WESTBOUND)	
		110+63 'WB' - 133+59 'WB'	278
		133+59 'WB' - 138+08 'WB'	820
		138+08 'WB' - 142+52 'WB'	821
		174+44 'WB' - 185+95 'WB'	743
		CTH PD (EASTBOUND)	
		133+59 'EB' - 138+08 'EB'	208
		SOUTH HIGH POINT ROAD	
		20+00 'HP' - 24+72 'HP'	291
	STAGE 1 TOTAL		3,161
	STAGE 2		
		CTH PD (WESTBOUND)	
		110+63 'WB' - 133+59 'WB'	563
		133+59 'WB' - 138+08 'WB'	220
		138+08 'WB' - 142+52 'WB'	156
		142+52 'WB' - 152+32 'WB'	86
		152+32 'WB' - 168+69 'WB'	169
		168+69 'WB' - 174+44 'WB'	85
		174+44 'WB' - 185+95 'WB'	403
		SOUTH HIGH POINT ROAD	
		20+00 'HP' - 24+72 'HP'	1,109
		STRATTON WAY	
		30+00 'SW' - 31+50 'SW'	196
		MUIR FIELD ROAD	
		54+50 'CM' - 57+00 'CM'	224
		SILVERTON TRAIL	
		72+35 'TS' - 73+00 'TS'	15
	STAGE 2 TOTAL		3,227

CATEGORY	STAGE	STATION TO STATION	204.0150 REMOVING CURB AND GUTTER (LF)
0010	STAGE 3		
		CTH PD (EASTBOUND)	
		110+63 'EB' - 133+59 'EB'	806
		133+59 'EB' - 138+08 'EB'	242
		138+08 'EB' - 142+52 'EB'	446
		142+52 'EB' - 152+32 'EB'	129
		152+32 'EB' - 168+69 'EB'	162
		168+69 'EB' - 174+44 'EB'	560
		174+44 'EB' - 185+95 'EB'	275
		SNOWY PARKWAY	
		41+00 'SP' - 41+94 'SP'	74
		COUNTRY GROVE DRIVE	
		52+16 'CM' - 54+30 'CM'	262
		TANGLEWOOD DRIVE	
		71+15 'TS' - 72+12 'TS'	73
		STONECREEK DRIVE	
		92+23 'SD' - 93+07 'SD'	50
		MAPLE GROVE DRIVE	
		20+24 'MD' - 21+35 'MD'	135
		22+00 'MD' - 24+61 'MD'	297
	STAGE 3 TOTAL		3,512
PROJECT 5992-09-31 TOTALS			**9,900**

REMOVING CONCRETE SIDEWALK

CATEGORY	STAGE	STATION TO STATION	204.0155 (SY)
0010	STAGE 2		
		CTH PD (WESTBOUND)	
		110+63 'WB' - 133+59 'WB'	1,167
		133+59 'WB' - 138+08 'WB'	238
		138+08 'WB' - 142+52 'WB'	66
		142+52 'WB' - 152+32 'WB'	32
		152+32 'WB' - 168+69 'WB'	814
		168+69 'WB' - 174+44 'WB'	345
		174+44 'WB' - 185+95 'WB'	133
		STRATTON WAY	
		30+00 'SW' - 31+50 'SW'	34
		MUIR FIELD ROAD	
		54+50 'CM' - 57+00 'CM'	41
	STAGE 2 TOTAL		2,869
	STAGE 3		
		CTH PD (WESTBOUND)	
		174+44 'WB' - 185+95 'WB'	30
		CTH PD (EASTBOUND)	
		168+69 'EB' - 174+44 'EB'	499
		174+44 'EB' - 185+95 'EB'	94
		SNOWY PARKWAY	
		41+00 'SP' - 41+94 'SP'	28
		COUNTRY GROVE DRIVE	
		52+16 'CM' - 54+30 'CM'	46
		TANGLEWOOD DRIVE	
		71+15 'TS' - 72+12 'TS'	19
		MAPLE GROVE DRIVE	
		20+24 'MD' - 21+35 'MD'	62
		22+00 'MD' - 24+61 'MD'	151
	STAGE 3 TOTAL		930
PROJECT 5992-09-31 TOTALS			**3,800**

REMOVING AND SALVAGING SIGNS

CATEGORY	STAGE	STATION	OFFSET	204.9060.S.001 REMOVING AND SALVAGING DANE COUNTY PARKS SIGNS (EACH)	204.9060.S.002 REMOVING AND SALVAGING ICE AGE TRAIL SIGNS (EACH)
0010	STAGE 2				
		CTH PD (WESTBOUND)			
		132+90 'WB'	28' LT	---	1
		133+20 'WB'	17' RT	---	1
	STAGE 3				
		CTH PD (EASTBOUND)			
		130+35 'EB'	46' RT	1	---
		133+43 'EB'	46' RT	1	---
PROJECT 5992-09-31 TOTALS				**2**	**2**

REMOVING MANHOLES AND INLETS

CATEGORY	STATION	OFFSET	204.0210 REMOVING MANHOLES (EACH)	204.0220 REMOVING INLETS (EACH)
0040	CTH PD (WESTBOUND)			
	111+73 'WB'	19' LT	1	---
	111+74 'WB'	8' RT	---	1
	112+07 'WB'	27' LT	---	1
	114+01 'WB'	18' LT	---	1
	132+73 'WB'	22' LT	---	1
	137+55 'WB'	6' RT	---	1
	137+69 'WB'	33' LT	---	1
	140+00 'WB'	5' RT	---	1
	142+00 'WB'	9' RT	---	1
	142+40 'WB'	9' RT	---	1
	146+00 'WB'	6' RT	---	1
	146+02 'WB'	26' LT	---	1
	165+10 'WB'	6' RT	---	1
	169+20 'WB'	27' LT	1	---
	170+32 'WB'	25' LT	1	---
	170+78 'WB'	6' RT	---	1
	174+69 'WB'	20' LT	---	1
	177+99 'WB'	21' LT	---	1
	CTH PD (EASTBOUND)			
	140+27 'EB'	27' RT	---	1
	140+36 'EB'	27' RT	---	1
	140+46 'EB'	41' RT	1	---
	142+01 'EB'	24' RT	---	1
	142+19 'EB'	33' RT	1	---
	170+45 'EB'	28' RT	---	1
	175+09 'EB'	27' RT	---	1
	SOUTH HIGH POINT ROAD			
	20+71 'HP'	36' LT	---	1
	22+57 'HP'	36' LT	---	1
	STRATTON WAY			
	30+57 'SW'	15' LT	---	1
	31+36 'SW'	17' LT	---	1
	MUIR FIELD ROAD			
	54+96 'CM'	15' RT	---	1
	54+97 'CM'	27' LT	---	1
	55+11 'CM'	14' RT	---	1
	55+12 'CM'	27' LT	---	1
		27' LT	---	1
	55+43 'CM'	27' LT	---	1
	SILVERTON TRAIL			
	72+75 'TS'	17' LT	---	1
	72+77 'TS'	1650' RT	---	1
	72+79 'TS'	17' LT	---	1
PROJECT 5992-09-31 TOTALS			**5**	**33**

REMOVING STORM SEWER

CATEGORY	STAGE	STATION TO STATION	204.0245.001 12-INCH (LF)	204.0245.002 15-INCH (LF)	204.0245.003 18-INCH (LF)	204.0245.004 21-INCH (LF)	204.0245.005 24-INCH (LF)	204.0245.006 30-INCH (LF)	204.0245.007 HE 29-INCH X 45-INCH (LF)
0040	STAGE 2								
		CTH PD (WESTBOUND)							
		110+63 'WB' - 133+59 'WB'	97	---	44	---	73	---	---
		133+59 'WB' - 138+08 'WB'	33	---	---	---	---	---	---
		142+52 'WB' - 152+32 'WB'	---	---	61	---	---	---	---
		168+69 'WB' - 174+44 'WB'	---	---	---	---	219	---	---
		174+44 'WB' - 185+95 'WB'	---	16	45	---	---	---	---
		SOUTH HIGH POINT ROAD							
		20+00 'HP' - 24+72 'HP'	---	---	---	---	209	---	---
		STRATTON WAY							
		30+00 'SW' - 31+50 'SW'	77	---	---	---	---	---	---
		MUIR FIELD ROAD							
		54+50 'CM' - 57+00 'CM'	36	15	50	---	51	---	---
		SILVERTON TRAIL							
		72+35 'TS' - 73+00 'TS'	---	69	---	---	---	---	---
	STAGE 2 TOTAL		243	100	200	0	552	0	0
	STAGE 3								
		CTH PD (EASTBOUND)							
		110+63 'EB' - 133+59 'EB'	---	---	---	---	70	---	---
		133+59 'EB' - 138+08 'EB'	---	---	---	---	---	---	---
		138+08 'EB' - 142+52 'EB'	37	---	---	225	---	---	33
		142+52 'EB' - 152+32 'EB'	---	---	---	---	---	---	152
		168+69 'EB' - 174+44 'EB'	---	---	---	---	62	---	---
		174+44 'EB' - 185+95 'EB'	---	---	---	---	276	20	---
		MAPLE GROVE DRIVE							
		22+00 'MD' - 24+61 'MD'	4	---	---	---	---	---	---
	STAGE 3 TOTAL		41	---	---	225	408	20	185
PROJECT 5992-09-31 TOTALS			**285**	**100**	**200**	**225**	**960**	**20**	**185**

REMOVING BOULDER RETAINING WALL

CATEGORY	STAGE	STATION TO STATION	204.9090.S.001 (LF)
0010	STAGE 1		
		CTH PD (WESTBOUND)	
		110+63 'WB' - 133+59 'WB'	145
	STAGE 1 TOTAL		145
	STAGE 3		
		CTH PD (EASTBOUND)	
		152+32 'EB' - 168+69 'EB'	40
	STAGE 3 TOTAL		40
PROJECT 5992-09-31 TOTALS			**185**

REMOVING GUARDRAIL

CATEGORY	STATION TO STATION	LOCATION	204.0165 (LF)
0010	CTH PD (WESTBOUND)		
	150+58 'WB' - 151+77 'WB'	LT	125
PROJECT 5992-09-31 TOTALS			**125**

EARTHWORK (1)

CATEGORY	STAGE	DIVISION	LOCATION	STATION - STATION	205.0100 Excavation Common (1) Cut (2) (CY)	205.0100 Excavation Common (1) EBS Excavation (3) (CY)	Salvaged/ Unusable Pavement Material (4)	Available Material (5)	205.0400 Excavation Marsh (6) (CY)	205.0200 Excavation Rock (12) (CY)	Reduced Marsh in Fill (7) Factor 0.60	Reduced EBS in Fill (8) Factor 0.80	Expanded Marsh Backfill (9) Factor 1.50	Expanded Rock Backfill (12) Factor 1.10	Unexpanded Fill	Expanded Fill (10) Factor 1.25	Mass Ordinate +/- (11)	Waste	208.0100 Borrow (CY)
0010	1	1	CTH PD	107+30'WB' - 116+48'WB'	465	23	33	432	---	---	---	19	---	---	5,301	6,604	-6,172	0	
				117+94'WB' - 142+18'WB'	1,832	92	103	1,730	---	---	---	73	---	---	68	-7	1,737	1,737	
				143+07'WB' - 146+11'WB'	91	5	---	91	---	---	---	4	---	---	10	8	83	83	
				177+24'WB' - 180+92'WB'	275	14	35	240	---	---	---	11	---	---	---	-14	254	254	
			SOUTH HIGH POINT ROAD	22+98'HP' - 24+54'HP'	92	5	15	77	---	---	---	4	---	---		-5	81	81	
			ICE AGE TRAIL ENTRANCE	50+49'IE' - 55+25'IE'	1,204	---	---	1,204	---	---	---	---	---	---	---	---	1,204	1,204	
			TRAIL A	10+77'A' - 12+59'A'	289	14	---	289	---	---	---	12	---	---	---	-14	303	303	
			ICE AGE TRAIL	208+62'AT' - 216+97'AT'	4,698	235	---	4,698	---	4,359	---	188	---	4,794	238	-5,385	10,083	10,083	
		Sub-total 1			8,947	387	187	8,760	---	4,359	---	310	---	4,794	5,618	1,187	7,573	7,573	---
0010	2	2	CTH PD	110+83'WB' - 180+91'WB'	29,557	1,478	63	29,493	---	16,449	---	1,182	---	18,093	2,861	-18,462	47,955	47,955	
			SNOWYCAP TRAIL	30+05'ST' - 32+15'ST'	698	---	---	698	---	---	---	---	---	---	14	17	680	680	
			TRAIL D	50+26'D' - 51+55'D'	323	16	---	323	---	---	---	13	---	---	---	-16	339	339	
			SOUTH HIGH POINT ROAD	20+27'HP' - 23+25'HP'	2,354	118	57	2,296	---	---	---	94	---	---	400	382	1,915	1,915	
			STRATTON WAY	30+27'SW' - 31+50'SW'	669	33	12	657	---	---	---	27	---	---	32	6	651	651	
			DRAINAGE WAY	11+05'BM' - 20+10'BM'	4,240	212	---	4,240	---	---	---	170	---	---	3,528	4,198	42	42	
			POND A	10+00'PA' - 19+46'PA'	5,732	287	---	5,732	---	---	---	229	---	---	2,153	2,405	3,328	3,328	
			POND B	20+00'PB' - 25+81'PB'	1,272	64	---	1,272	---	---	---	51	---	---	893	1,052	219	219	
			MUIR FIELD ROAD	54+77'CM' - 56+59'CM'	1,264	63	16	1,248	---	---	---	51	---	---	80	37	1,211	1,211	
			SILVERTON TRAIL	72+62'TS' - 72+99'TS'	379	4	4	376	---	---	---	3	---	---	---	-4	380	380	
			CTH PD	111+74'WB' - 116+35'WB'	70	1		70	---	---	---		---	---	21	25	45	45	
				130+02'WB' - 134+06'WB'	972	67	---	972	---	---	---	53	---	---	---	-67	1,039	1,039	
				136+50'WB' - 137+55'WB'	---	---	---	---	---	---	---	---	---	---	16	20	-20	0	
				138+64'WB' - 142+41'WB'	53		---	53	---	---	---		---	---	15	19	34	34	
				142+74'WB' - 146+00'WB'	100	1	---	100	---	---	---	1	---	---	3	3	98	98	
				150+28'WB' - 154+49'WB'	179	2	---	179	---	---	---	2	---	---	---	-2	181	181	
				156+10'WB' - 159+80'WB'	12	0	---	12	---	---	---		---	---	55	68	-57	0	
				165+00'WB' - 170+78'WB'	60	1	---	60	---	---	---		---	---	52	64	-4	0	
		Sub-total 2			47,933	2,346	152	47,781	---	16,449	---	1,877	---	18,093	10,122	-10,255	58,035	58,035	---

1) Common Excavation is the sum of the Cut and EBS Excavation columns
2) Salvaged/Unsuable Pavement Material is included in Cut
3) EBS Excavation to be backfilled with Select Crush
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
6) Marsh Excavation - to be backfilled with Select Borrow Material
7) Reduced Marsh in Fill - Excavated Marsh material is usuable in Fills outside the 1:1 slope. Marsh in Fill Reduction factor = 0.6
8) Reduced EBS in Fill - Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
9) Expanded Marsh Backfill - This is to be filled with Select Borrow material. Marsh Backfill Factor = 1.5
10) Expanded Fill. Factor = 1.25
11) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.
12) Expanded Rock Factor = 1.10

EARTHWORK (2)

CATEGORY	STAGE	DIVISION	LOCATION	STATION - STATION	205.0100 Excavation Common (1) Cut (2) (CY)	205.0100 Excavation Common (1) EBS Excavation (3) (CY)	Salvaged/ Unusable Pavement Material (4)	Available Material (5)	205.0400 Excavation Marsh (6) (CY)	205.0200 Excavation Rock (12) (CY)	Reduced Marsh in Fill (7) Factor 0.60	Reduced EBS in Fill (8) Factor 0.80	Expanded Marsh Backfill (9) Factor 1.50	Expanded Rock Backfill (12) Factor 1.10	Unexpanded Fill	Expanded Fill (10) Factor 1.25	Mass Ordinate +/- (11)	Waste	208.0100 Borrow (CY)
0010	Stage 1 Sub-total				8,947	387	187	8,760	---	4,359	---	310	---	4,794	5,618	1,187	7,573	7,573	---
	Stage 2 Sub-total				47,933	2,346	152	47,781	---	16,449	---	1,877	---	18,093	10,122	-10,255	58,035	58,035	---
	3	3	CTH PD	110+63'WB' - 177+28'WB'	40,254	2,013	80	40,174	---	23,195	---	1,610	---	25,514	7,104	-22,127	62,301	62,301	
			DRIVEWAY 122+00'DW'	10+22'DW' - 12+40'DW'	2,460	123	---	2,460	---	2,494	---	98	---	2,744	24	-3,211	5,672	5,672	
			ICE AGE TRAIL	200+50'AT' - 207+25'AT'	9,358	468	---	9,358	---	663	---	374	---	729	10	-1,284	10,642	10,642	
			TRAIL C	31+55'C' - 32+34'C'	301	15	---	301	---	---	---	12	---	---		-15	316	316	
			SOUTH HIGH POINT ROAD	23+25'HP' 24+72'HP'	234	12	---	234	---	---	---	9	---	---	5	-6	240	240	
			SNOWY PARKWAY	41+00'SP' - 41+67'SP'	435	22	---	435	---	---	---	17	---	---	---	-22	456	456	
			COUNTRY GROVE DRIVE	52+17'CM' - 54+04'CM'	1,024	51	17	1,008	---	---	---	41	---	---	9	-40	1,048	1,048	
			TANGLEWOOD DRIVE	71+15'TS' - 71+84'TS'	144	7	7	137	---	---	---	6	---	---		-7	144	144	
			STONECREEK DRIVE	92+25'SD' - 92+81'SD'	370	18	5	364	---	---	---	15	---	---	4	-13	378	378	
			MAPLE GROVE DRIVE	20+26'MD' - 21+34'MD'	248	12	4	243	---	---	---	10	---	---		-12	255	255	
				22+02'MD' - 24+61'MD'	730	36	11	718	---	---	---	29	---	---	---	-36	755	755	
		Sub-total 3			55,557	2,778	124	55,433	---	26,352	---	2,222	---	28,987	7,155	-26,774	82,207	82,207	---
0010	4	4	CTH PD	132+00'WB' - 145+81'WB'	1,789	89	---	1,789	---	---	---	72	---	---	195	154	1,635	1,635	
				150+00'WB' - 156+45'WB'	1,200	60	---	1,200	---	---	---	48	---	---	9	-48	1,249	1,249	
				165+29'WB' - 180+99'WB'	2,134	107	---	2,134	---	---	---	85	---	---	94	11	2,123	2,123	
		Sub-total 4			5,123	256	---	5,123	---	---	---	205	---	---	298	117	5,007	5,007	---
Grand Totals					**117,560**	**5,767**	**462**	**117,097**	**---**	**47,159**	**---**	**4,614**	**---**	**51,875**	**23,192**	**-35,726**	**152,823**	**152,823**	**---**
Total Excavation Common					**123,327**														

1) Common Excavation is the sum of the Cut and EBS Excavation columns
2) Salvaged/Unsuable Pavement Material is included in Cut
3) EBS Excavation to be backfilled with Select Crush
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
6) Marsh Excavation - to be backfilled with Select Borrow Material
7) Reduced Marsh in Fill - Excavated Marsh material is usuable in Fills outside the 1:1 slope. Marsh in Fill Reduction factor = 0.6
8) Reduced EBS in Fill - Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
9) Expanded Marsh Backfill - This is to be filled with Select Borrow material. Marsh Backfill Factor = 1.5
10) Expanded Fill. Factor = 1.25
11) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.
12) Expanded Rock Factor = 1.10

BASE AGGREGATE DENSE

CATEGORY	STAGE	STATION TO STATION	305.0110 3/4 - INCH (TON)	305.0120 (B) 1 1/4- INCH (TON)
0010	STAGE 2			
		CTH PD (WESTBOUND)		
		110+63 'WB' - 133+59 'WB'	23	7,928
		133+59 'WB' - 138+08 'WB'	85	1,399
		138+08 'WB' - 142+52 'WB'	34	1,319
		142+52 'WB' - 152+32 'WB'	132	2,959
		152+32 'WB' - 168+69 'WB'	230	4,828
		168+69 'WB' - 174+44 'WB'	91	1,619
		174+44 'WB' - 185+95 'WB'	34	1,283
		SOUTH HIGH POINT ROAD		
		20+00 'HP' - 24+72 'HP'	---	1896
		STRATTON WAY		
		30+00 'SW' - 31+50 'SW'	---	348
		MUIR FIELD ROAD		
		54+50 'CM' - 57+00 'CM'	4	458
		SILVERTON TRAIL		
		72+35 'TS' - 73+00 'TS'	---	27
	STAGE 2 TOTAL		632	24,064
	STAGE 3			
		CTH PD (WESTBOUND)		
		174+44 'WB' - 185+95 'WB'	9	---
		CTH PD (EASTBOUND)		
		110+63 'EB' - 133+59 'EB'	8	7,856
		133+59 'EB' - 138+08 'EB'	17	1,461
		138+08 'EB' - 142+52 'EB'	17	1,491
		142+52 'EB' - 152+32 'EB'	34	3,557
		152+32 'EB' - 168+69 'EB'	35	5,939
		168+69 'EB' - 174+44 'EB'	35	1,971
		174+44 'EB' - 185+95 'EB'	13	924
		SNOWY PARKWAY		
		41+00 'SP' - 41+94 'SP'	---	118
	STAGE 3 SUBTOTAL		168	23,317
0010	STAGE 3 SUBTOTAL		168	23,317
	STAGE 3			
		COUNTRY GROVE DRIVE		
		52+16 'CM' - 54+30 'CM'	---	512
		TANGLEWOOD DRIVE		
		71+15 'TS' - 72+12 'TS'	---	133
		STONECREEK DRIVE		
		92+23 'SD' - 93+07 'SD'	---	94
		MAPLE GROVE DRIVE		
		20+24 'MD' - 21+35 'MD'	8	157
		22+00 'MD' - 24+61 'MD'	40	459
	STAGE 3 TOTAL		216	24,673
	STAGE 4			
		CTH PD (WESTBOUND)		
		110+63 'WB' - 133+59 'WB'	209	1,179
		133+59 'WB' - 138+08 'WB'	44	564
		138+08 'WB' - 142+52 'WB'	13	242
		142+52 'WB' - 152+32 'WB'	80	502
		152+32 'WB' - 168+69 'WB'	96	629
		168+69 'WB' - 174+44 'WB'	58	692
		174+44 'WB' - 185+95 'WB'	48	716
		CTH PD (EASTBOUND)		
		142+52 'EB' - 152+32 'EB'	---	427
		152+32 'EB' - 168+69 'EB'	---	540
		SOUTH HIGH POINT ROAD		
		20+00 'HP' - 24+72 'HP'	2	---
	STAGE 4 TOTAL		551	5,491
	PROJECT 5992-09-31 TOTALS		**1,400**	**54,229**

(B) REFER TO "TEMPORARY ASPHALT ITEMS" TABLE FOR ADDITIONAL QUANTITIES

SELECT CRUSHED MATERIAL

CATEGORY	STAGE	STATION TO STATION	312.0110 SELECT CRUSHED MATERIAL (TON)
0010	STAGE 1		
		EXCAVATION BELOW SUBGRADE (EBS)	1,022
	STAGE 1 TOTAL		1,022
	STAGE 2		
		CTH PD (WESTBOUND)	
		110+63 'WB' - 133+59 'WB'	6,678
		133+59 'WB' - 138+08 'WB'	1,399
		138+08 'WB' - 142+52 'WB'	1,319
		142+52 'WB' - 152+32 'WB'	2,959
		152+32 'WB' - 168+69 'WB'	4,773
		168+69 'WB' - 174+44 'WB'	1,619
		174+44 'WB' - 185+95 'WB'	1,283
		SOUTH HIGH POINT ROAD	
		20+00 'HP' - 24+72 'HP'	1,776
		STRATTON WAY	
		30+00 'SW' - 31+50 'SW'	348
		MUIR FIELD ROAD	
		54+50 'CM' - 57+00 'CM'	444
		SILVERTON TRAIL	
		72+35 'TS' - 73+00 'TS'	27
		EXCAVATION BELOW SUBGRADE (EBS)	5,086
		TEMPORARY SEDIMENT TRAPS	10
	STAGE 2 TOTAL		27,719
	STAGE 3		
		CTH PD (EASTBOUND)	
		110+63 'EB' - 133+59 'EB'	6,772
		133+59 'EB' - 138+08 'EB'	1,292
		138+08 'EB' - 142+52 'EB'	1,332
		142+52 'EB' - 152+32 'EB'	3,203
		152+32 'EB' - 168+69 'EB'	5,322
		168+69 'EB' - 174+44 'EB'	1,769
		174+44 'EB' - 185+95 'EB'	903
		SOUTH HIGH POINT ROAD	
		20+00 'HP' - 24+72 'HP'	2,110
		SNOWY PARKWAY	
		41+00 'SP' - 41+94 'SP'	118
		COUNTRY GROVE DRIVE	
		52+16 'CM' - 54+30 'CM'	512
	STAGE 3 SUBTOTAL		23,333

CATEGORY	STAGE	STATION TO STATION	312.0110 SELECT CRUSHED MATERIAL (TON)
0010	STAGE 3 SUBTOTAL		23,333
		TANGLEWOOD DRIVE	
		71+15 'TS' - 72+12 'TS'	133
		STONECREEK DRIVE	
		92+23 'SD' - 93+07 'SD'	94
		MAPLE GROVE DRIVE	
		20+24 'MD' - 21+35 'MD'	157
		22+00 'MD' - 24+61 'MD'	448
		EXCAVATION BELOW SUBGRADE (EBS)	6,559
	STAGE 3 TOTAL		30,724
	STAGE 4		
		CTH PD (WESTBOUND)	
		110+63 'WB' - 133+59 'WB'	1,143
		133+59 'WB' - 138+08 'WB'	531
		138+08 'WB' - 142+52 'WB'	192
		142+52 'WB' - 152+32 'WB'	452
		152+32 'WB' - 168+69 'WB'	579
		168+69 'WB' - 174+44 'WB'	642
		174+44 'WB' - 185+95 'WB'	666
		CTH PD (EASTBOUND)	
		142+52 'EB' - 152+32 'EB'	377
		152+32 'EB' - 168+69 'EB'	487
		EXCAVATION BELOW SUBGRADE (EBS)	466
	STAGE 4 TOTAL		5,535
	PROJECT 5992-09-31 TOTALS		**65,000**

CONCRETE PAVEMENT

CATEGORY	STAGE	STATION TO STATION	415.0090 CONCRETE PAVEMENT 9-INCH (SY)
0010	STAGE 2		
		MUIR FIELD ROAD	
		54+50 'CM' - 57+00 'CM'	35
	STAGE 2 TOTAL		35
	PROJECT 5992-09-31 TOTALS		**35**

ASPHALTIC ITEMS (1)

CATEGORY	STAGE	STATION TO STATION	450.4000 HMA COLD WEATHER PAVING (TON)	455.0605 TACK COAT (GAL)	460.5223 HMA PAVEMENT 3 LT 58-28 S (TON)	460.6223 HMA PAVEMENT 3 MT 58-28 S (TON)	460.6424 HMA PAVEMENT 4 MT 58-28 H (TON)	465.0120 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (TON)	465.0310 ASPHALTIC CURB (LF)	465.0315 ASPHALTIC FLUMES (SY)
0010	STAGE 1									
		CTH PD (WESTBOUND)								
		110+63 'WB' - 133+59 'WB'	---	---	---	---	---	---	300	---
		133+59 'WB' - 138+08 'WB'	---	---	---	---	---	---	190	---
	STAGE 1 TOTAL		---	---	---	---	---	---	489	---
	STAGE 2									
		CTH PD (WESTBOUND)								
		110+63 'WB' - 133+59 'WB'	---	---	916	1,556	---	---	---	26
		133+59 'WB' - 138+08 'WB'	---	---	---	354	---	---	---	---
		138+08 'WB' - 142+52 'WB'	---	---	---	312	---	---	---	---
		142+52 'WB' - 152+32 'WB'	---	---	---	682	---	---	---	---
		152+32 'WB' - 168+69 'WB'	---	---	---	1,122	---	63	---	---
		168+69 'WB' - 174+44 'WB'	---	---	---	396	---	---	---	---
		174+44 'WB' - 185+95 'WB'	---	---	---	298	---	---	---	---
		SOUTH HIGH POINT ROAD								
		20+00 'HP' - 24+72 'HP'	---	---	---	408	---	---	---	---
		STRATTON WAY								
		30+00 'SW' - 31+50 'SW'	---	---	---	77	---	---	---	---
		MUIR FIELD ROAD								
		54+50 'CM' - 57+00 'CM'	---	---	---	87	---	---	---	---
		SILVERTON TRAIL								
		72+35 'TS' - 73+00 'TS'	---	---	---	6	---	---	---	---
	STAGE 2 TOTAL		---	---	916	5,299	---	63	---	26
	STAGE 3									
		CTH PD (EASTBOUND)								
		110+63 'EB' - 133+59 'EB'	---	---	290	1,693	---	84	395	39
		133+59 'EB' - 138+08 'EB'	---	---	83	307	---	---	86	16
		138+08 'EB' - 142+52 'EB'	---	---	79	318	---	---	---	---
		142+52 'EB' - 152+32 'EB'	---	---	159	695	---	---	---	---
		152+32 'EB' - 168+69 'EB'	---	---	278	1,162	---	---	---	---
		168+69 'EB' - 174+44 'EB'	---	---	86	423	---	1	---	---
		174+44 'EB' - 185+95 'EB'	---	---	9	232	---	---	---	---
		SNOWY PARKWAY								
		41+00 'SP' - 41+94 'SP'	---	---	---	25	---	---	---	---
		COUNTRY GROVE DRIVE								
		52+16 'CM' - 54+30 'CM'	---	---	---	115	---	---	---	---
		TANGLEWOOD DRIVE								
		71+15 'TS' - 72+12 'TS'	---	---	---	29	---	---	---	---
		STONECREEK DRIVE								
		92+23 'SD' - 93+07 'SD'	---	---	---	21	---	---	---	---
	STAGE 3 SUBTOTAL		---	---	985	5,019	---	86	481	54

ASPHALTIC ITEMS (2)

CATEGORY	STAGE	STATION TO STATION	450.4000 HMA COLD WEATHER PAVING (TON)	455.0605 TACK COAT (GAL)	460.5223 HMA PAVEMENT 3 LT 58-28 S (TON)	460.6223 HMA PAVEMENT 3 MT 58-28 S (TON)	460.6424 HMA PAVEMENT 4 MT 58-28 H (TON)	465.0120 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (TON)	465.0310 ASPHALTIC CURB (LF)	465.0315 ASPHALTIC FLUMES (SY)
0010	STAGE 3 SUBTOTAL		---	---	985	5019	---	86	481	54
	STAGE 3									
		MAPLE GROVE DRIVE								
		20+24 'MD' - 21+35 'MD'	---	---	---	31	---	---	---	---
		22+00 'MD' - 24+61 'MD'	---	---	---	96	---	1	---	---
	STAGE 3 TOTAL		---	---	985	5,146	---	87	481	54
	STAGE 4									
		CTH PD (WESTBOUND)								
		110+63 'WB' - 133+59 'WB'	973	502.0	---	---	973	---	---	---
		133+59 'WB' - 138+08 'WB'	215	119.3	---	---	215	---	---	---
		138+08 'WB' - 142+52 'WB'	191	107.0	---	---	191	---	---	---
		142+52 'WB' - 152+32 'WB'	427	227.1	---	---	427	---	---	---
		152+32 'WB' - 168+69 'WB'	702	368.1	---	---	702	---	---	---
		168+69 'WB' - 174+44 'WB'	248	136.0	---	---	248	---	---	---
		174+44 'WB' - 185+95 'WB'	186	94.9	---	---	186	---	---	---
		CTH PD (EASTBOUND)								
		110+63 'EB' - 133+59 'EB'	1032	525.3	---	142	1,032	---	---	---
		133+59 'EB' - 138+08 'EB'	244	124.5	---	95	244	---	---	---
		138+08 'EB' - 142+52 'EB'	199	101.2	---	10	199	---	---	---
		142+52 'EB' - 152+32 'EB'	549	279.4	---	193	549	---	---	---
		152+32 'EB' - 168+69 'EB'	862	438.7	---	227	862	---	---	---
		168+69 'EB' - 174+44 'EB'	323	164.3	---	104	323	---	---	---
		174+44 'EB' - 185+95 'EB'	191	97.4	---	85	191	---	---	---
		SOUTH HIGH POINT ROAD								
		20+00 'HP' - 24+72 'HP'	255	129.9	---	---	255	---	---	---
		STRATTON WAY								
		30+00 'SW' - 31+50 'SW'	48	24.4	---	---	48	---	---	---
		SNOWY PARKWAY								
		41+00 'SP' - 41+94 'SP'	16	8.0	---	---	16	---	---	---
		MUIR FIELD ROAD								
		54+50 'CM' - 57+00 'CM'	54	27.6	---	---	54	---	---	---
		COUNTRY GROVE DRIVE								
		52+16 'CM' - 54+30 'CM'	72	36.7	---	---	72	---	---	---
		SILVERTON TRAIL								
		72+35 'TS' - 73+00 'TS'	4	1.9	---	---	4	---	---	---
		TANGLEWOOD DRIVE								
		71+15 'TS' - 72+12 'TS'	18	9.3	---	---	18	---	---	---
		STONECREEK DRIVE								
		92+23 'SD' - 93+07 'SD'	13	6.6	---	---	13	---	---	---
	STAGE 4 SUBTOTAL		6,821	3,530	---	855	6,821	---	---	---

3

ASPHALTIC ITEMS (3)

CATEGORY	STAGE	STATION TO STATION	450.4000 HMA COLD WEATHER PAVING (TON)	455.0605 TACK COAT (GAL)	460.5223 HMA PAVEMENT 3 LT 58-28 S (TON)	460.6223 HMA PAVEMENT 3 MT 58-28 S (TON)	460.6424 HMA PAVEMENT 4 MT 58-28 H (TON)	465.0120 ASPHALTIC SURFACE DRIVEWAYS & FIELD ENTRANCES (TON)	465.0310 ASPHALTIC CURB (LF)	465.0315 ASPHALTIC FLUMES (SY)
0010	STAGE 1 TOTAL		---	---	---	---	---	---	489	---
	STAGE 2 TOTAL		---	---	916	5,299	---	63	---	26
	STAGE 3 TOTAL		---	---	985	5146	---	87	481	54
	STAGE 4 SUBTOTAL		6,821	3,530	---	855	6,821	---	---	---
	STAGE 4									
		MAPLE GROVE DRIVE								
		20+24 'MD' - 21+35 'MD'	19	10	---	---	19	---	---	---
		22+00 'MD' - 24+61 'MD'	60	60	---	---	60	---	---	---
	STAGE 4 TOTAL		6,900	3,600	---	855	6,900	---	---	---
PROJECT 5992-09-31 TOTALS			**6,900**	**3,600**	**1,900**	**11,300**	**6,900**	**150**	**970**	**80**

TEMPORARY ASPHALT ITEMS

CATEGORY	STAGE	STATION TO STATION	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS (SY)	305.0120 (B) BASE AGGREGATE DENSE 1 1/4- INCH (TON)	465.0110 ASPHALTIC SURFACE PATCHING (TON)	465.0125 ASPHALTIC SURFACE TEMPORARY (TON)
0010	STAGE 1					
		CTH PD (WESTBOUND)				
		174+44 'WB' - 185+95 'WB'	---	326	---	136
		CTH PD (EASTBOUND)				
		105+00 'EB' - 110+63 'EB'	---	484	---	207
		110+63 'EB' - 133+59 'EB'	---	1391	---	589
		133+59 'EB' - 138+08 'EB'	---	503	---	210
		138+08 'EB' - 142+52 'EB'	---	358	---	149
		142+52 'EB' - 152+32 'EB'	---	166	---	69
		SOUTH HIGH POINT ROAD				
		20+00 'HP' - 24+72 'HP'	---	112	---	47
		UNDISTRIBUTED	---	---	140	---
	STAGE 1 TOTAL		---	3,341	140	1,407
	STAGE 2					
		CTH PD (WESTBOUND)				
		110+63 'WB' - 133+59 'WB'	---	179	---	70
		133+59 'WB' - 138+08 'WB'	---	212	---	78
		138+08 'WB' - 142+52 'WB'	---	110	---	35
		142+52 'WB' - 152+32 'WB'	---	143	---	49
		152+32 'WB' - 168+69 'WB'	---	256	---	107
		168+69 'WB' - 174+44 'WB'	---	56	---	23
		UNDISTRIBUTED	---	---	36	---
		TEMP ACCESS	---	400	---	---
	STAGE 2 TOTAL		0	1,355	36	362
	STAGE 3					
		CTH PD (WESTBOUND)				
		138+08 'WB' - 142+52 'WB'	---	49	---	21
		142+52 'WB' - 152+32 'WB'	---	26	---	11
		UNDISTRIBUTED	---	---	3	---
	STAGE 3 TOTAL		---	75	3	31
	STAGE 4					
		CTH PD (WESTBOUND)				
		110+63 'WB' - 133+59 'WB'	247	---	---	---
		133+59 'WB' - 138+08 'WB'	16	---	---	---
		138+08 'WB' - 142+52 'WB'	10	---	---	---
		142+52 'WB' - 152+32 'WB'	21	---	---	---
		152+32 'WB' - 168+69 'WB'	31	---	---	---
		168+69 'WB' - 174+44 'WB'	16	---	---	---
		174+44 'WB' - 185+95 'WB'	273	---	---	---
	STAGE 4 SUBTOTAL		614	---	---	---
0010	STAGE 4 SUBTOTAL		614	---	---	---
		CTH PD (EASTBOUND)				
		110+63 'EB' - 133+59 'EB'	176	---	---	---
		138+08 'EB' - 142+52 'EB'	21	---	---	---
		142+52 'EB' - 152+32 'EB'	5	---	---	---
		152+32 'EB' - 168+69 'EB'	5	---	---	---
		168+69 'EB' - 174+44 'EB'	10	---	---	---
		174+44 'EB' - 185+95 'EB'	446	---	---	---
		SOUTH HIGH POINT ROAD				
		20+00 'HP' - 24+72 'HP'	404	---	---	---
		STRATTON WAY				
		30+00 'SW' - 31+50 'SW'	35	---	---	---
		SNOWY PARKWAY				
		41+00 'SP' - 41+94 'SP'	31	---	---	---
		MUIR FIELD ROAD				
		54+50 'CM' - 57+00 'CM'	122	---	---	---
		COUNTRY GROVE DRIVE				
		52+16 'CM' - 54+30 'CM'	84	---	---	---
		SILVERTON TRAIL				
		72+35 'TS' - 73+00 'TS'	41	---	---	---
		TANGLEWOOD DRIVE				
		71+15 'TS' - 72+12 'TS'	36	---	---	---
		STONECREEK DRIVE				
		92+23 'SD' - 93+07 'SD'	36	---	---	---
		MAPLE GROVE DRIVE				
		20+24 'MD' - 21+35 'MD'	176	---	---	---
		22+00 'MD' - 24+61 'MD'	357	---	---	---
	STAGE 4 TOTAL		2,600	---	---	---
	PROJECT 5992-09-31 TOTALS		**2,600**	**4,771**	**180**	**1,800**

(B) REFER TO "BASE AGGREGATE DENSE" TABLE FOR ADDITIONAL QUANTITIES

3

REHEATING HMA PAVEMENT LONGITUDINAL JOINTS

460.4110.S

CATEGORY	STATION TO STATION	(LF)
0010	110+63 'WB' - 185+95 'WB'	14,025
	110+63 'EB' - 185+95 'EB'	14,025
PROJECT 5992-09-31 TOTALS		**28,050**

TEMPORARY SHORING

511.1300

CATEGORY	STAGE	STATION TO STATION	(SF)
0010	STAGE 2	118+70 'WB' - 132+61 'WB'	13,500
PROJECT 5992-09-31 TOTALS			**13,500**

APRON ENDWALLS

					522.1012	522.1015	522.1024	522.1036	522.1042	522.1048
					APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE					
CATEGORY	STAGE	STRUCTURE #	STATION	OFFSET TO BEGINNING OF ENDWALL	12-INCH (EACH)	15-INCH (EACH)	24-INCH (EACH)	36-INCH (EACH)	42-INCH (EACH)	48-INCH (EACH)
0040	STAGE 2									
		15.6	121+58 'WB'	49.3' LT	1	---	1	---	---	---
		1.0	148+21 'WB'	28.5' LT	---	---	---	---	1	---
		41.0	16+32 'BM'	20.4' LT	---	---	---	---	---	1
		41.2	16+44 'BM'	43.8' LT	---	---	---	---	---	1
		42.0	17+36 'BM'	21.6' RT	---	---	---	1	---	---
		42.2	17+89 'BM'	75.1' RT	---	---	---	1	---	---
		43.0	22+38 'PB'	9.2' LT	---	---	---	---	---	1
	STAGE 2 TOTAL				1	---	1	2	1	3
	STAGE 3									
		5.4	139+73 'WB'	78.7' RT	---	---	1	---	---	---
		28.7	167+97 'WB'	76.7' RT	---	1	---	---	---	---
	STAGE 3 TOTAL				---	1	1	---	---	---
PROJECT 5992-09-31 TOTALS					**1**	**1**	**2**	**2**	**1**	**3**

CONCRETE CURB & GUTTER

CATEGORY	STAGE	STATION TO STATION	601.0409 30-INCH TYPE A (LF)	601.0411 30-INCH TYPE D (LF)	SPV.0090.001 24-INCH TYPE D SPECIAL (LF)	601.0600 CONCRETE CURB PEDESTRIAN (LF)	620.0300 CONCRETE MEDIAN SLOPED NOSE (SF)
0010	STAGE 2						
		CTH PD (WESTBOUND)					
		110+63 'WB' - 133+59 'WB'	---	2,355	---	---	---
		133+59 'WB' - 138+08 'WB'	---	489	---	---	---
		138+08 'WB' - 142+52 'WB'	---	489	---	26	---
		142+52 'WB' - 152+32 'WB'	---	1,007	---	20	---
		152+32 'WB' - 168+69 'WB'	---	1,678	---	---	---
		168+69 'WB' - 174+44 'WB'	---	597	---	45	---
		174+44 'WB' - 185+95 'WB'	---	462	---	71	---
		SOUTH HIGH POINT ROAD					
		20+00 'HP' - 24+72 'HP'	---	---	1,090	---	---
		STRATTON WAY					
		30+00 'SW' - 31+50 'SW'	---	196	---	---	---
		MUIR FIELD ROAD					
		54+50 'CM' - 57+00 'CM'	100	225	---	---	---
		SILVERTON TRAIL					
		72+35 'TS' - 73+00 'TS'	---	15	---	---	---
	STAGE 2 TOTAL		100	7,513	1,090	163	---
	STAGE 3						
		CTH PD (WESTBOUND)					
		174+44 'WB' - 185+95 'WB'	---	---	---	41	---
		CTH PD (EASTBOUND)					
		110+63 'EB' - 133+59 'EB'	---	2,255	---	---	---
		133+59 'EB' - 138+08 'EB'	---	450	---	248	---
		138+08 'EB' - 142+52 'EB'	---	443	---	---	---
		142+52 'EB' - 152+32 'EB'	---	985	---	---	---
		152+32 'EB' - 168+69 'EB'	---	1,626	---	---	---
		168+69 'EB' - 174+44 'EB'	---	574	---	---	---
		174+44 'EB' - 185+95 'EB'	---	282	---	---	---
		SOUTH HIGH POINT ROAD					
		20+00 'HP' - 24+72 'HP'	---	---	293	---	---
		SNOWY PARKWAY					
		41+00 'SP' - 41+94 'SP'	---	74	---	---	---
		COUNTRY GROVE DRIVE					
		52+16 'CM' - 54+30 'CM'	---	270	---	---	---
		TANGLEWOOD DRIVE					
		71+15 'TS' - 72+12 'TS'	---	75	---	---	---
		STONECREEK DRIVE					
		92+23 'SD' - 93+07 'SD'	---	53	---	---	---
		MAPLE GROVE DRIVE					
		20+24 'MD' - 21+35 'MD'	---	121	---	---	---
		22+00 'MD' - 24+61 'MD'	---	279	---	28	---
	STAGE 3 TOTAL		---	7,487	293	317	---

CATEGORY	STAGE	STATION TO STATION	601.0409 30-INCH TYPE A (LF)	601.0411 30-INCH TYPE D (LF)	SPV.0090.001 24-INCH TYPE D SPECIAL (LF)	601.0600 CONCRETE CURB PEDESTRIAN (LF)	620.0300 CONCRETE MEDIAN SLOPED NOSE (SF)
0010	STAGE 4						
		CTH PD (WESTBOUND)					
		110+63 'WB' - 133+59 'WB'	---	---	4,383	---	58
		133+59 'WB' - 138+08 'WB'	---	---	812	---	6
		138+08 'WB' - 142+52 'WB'	---	---	868	---	14
		142+52 'WB' - 152+32 'WB'	---	---	1,829	---	16
		152+32 'WB' - 168+69 'WB'	---	---	3,104	---	49
		168+69 'WB' - 174+44 'WB'	---	---	1,073	---	32
		174+44 'WB' - 185+95 'WB'	---	---	1,249	---	6
		SOUTH HIGH POINT ROAD					
		20+00 'HP' - 24+72 'HP'	---	---	---	---	33
	STAGE 4 TOTAL		---	---	13,318	---	215
	PROJECT 5992-09-31 TOTALS		**100**	**15,000**	**14,700**	**480**	**215**

CONCRETE SIDEWALK

CATEGORY	STAGE	STATION TO STATION	602.0410 CONCRETE SIDEWALK 5-INCH (SF)	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA (SF)	416.0170 CONCRETE DRIVEWAY 7-INCH (SY)	416.0270 CONCRETE DRIVEWAY HES 7-INCH (SY)
0010	STAGE 2					
		CTH PD (WESTBOUND)				
		110+63 'WB' - 133+59 'WB'	951	78	---	---
		133+59 'WB' - 138+08 'WB'	2,384	40	---	---
		138+08 'WB' - 142+52 'WB'	982	30	---	---
		142+52 'WB' - 152+32 'WB'	4,054	34	---	---
		152+32 'WB' - 168+69 'WB'	6,761	46	197	150
		168+69 'WB' - 174+44 'WB'	3,041	32	---	---
		174+44 'WB' - 185+95 'WB'	1,417	10	---	---
		SOUTH HIGH POINT ROAD				
		20+00 'HP' - 24+72 'HP'	411	---	---	---
		STRATTON WAY				
		30+00 'SW' - 31+50 'SW'	310	---	---	---
		MUIR FIELD ROAD				
		54+50 'CM' - 57+00 'CM'	193	---	42	---
	STAGE 2 TOTAL		20,503	270	238	150
	STAGE 3					
		CTH PD (EASTBOUND)				
		110+63 'EB' - 133+59 'EB'	324	40	103	---
		133+59 'EB' - 138+08 'EB'	620	44	---	---
		138+08 'EB' - 142+52 'EB'	601	42	---	---
		142+52 'EB' - 152+32 'EB'	1,153	65	---	---
		152+32 'EB' - 168+69 'EB'	1,171	68	---	---
		168+69 'EB' - 174+44 'EB'	1,179	66	27	---
		174+44 'EB' - 185+95 'EB'	969	32	---	---
		COUNTRY GROVE DRIVE				
		52+16 'CM' - 54+30 'CM'	56	---	---	---
		MAPLE GROVE DRIVE				
		20+24 'MD' - 21+35 'MD'	319	23	---	---
		22+00 'MD' - 24+61 'MD'	1,167	10	32	---
	STAGE 3 TOTAL		7,561	390	162	---
0010	STAGE 4					
		CTH PD (WESTBOUND)				
		110+63 'WB' - 133+59 'WB'	5,831	20	---	---
		133+59 'WB' - 138+08 'WB'	1,159	20	---	---
		138+08 'WB' - 142+52 'WB'	263	40	---	---
		142+52 'WB' - 152+32 'WB'	2,352	---	---	---
		152+32 'WB' - 168+69 'WB'	3,295	20	---	---
		168+69 'WB' - 174+44 'WB'	1,771	40	---	---
		174+44 'WB' - 185+95 'WB'	1,232	---	---	---
		SOUTH HIGH POINT ROAD				
		20+00 'HP' - 24+72 'HP'	32	---	---	---
	STAGE 4 TOTAL		15,936	140	---	---
	PROJECT 5992-09-31 TOTALS		**44,000**	**800**	**400**	**150**

RIPRAP

CATEGORY	STAGE	STATION TO STATION	606.0200 RIPRAP MEDIUM (CY)	606.0300 RIPRAP HEAVY (CY)	645.0120 GEOTEXTILE TYPE HR (SY)
0010	STAGE 2				
		CTH PD (WESTBOUND)			
		110+63 'WB' - 133+59 'WB'	158	---	323
		142+52 'WB' - 152+32 'WB'	5	---	9
		POND B			
		20+00'PB' - 25+81'PB'	---	30	53
	STAGE 2 TOTAL		163	30	385
	STAGE 3				
		CTH PD (EASTBOUND)			
		110+63 'EB' - 133+59 'EB'	6	---	12
		133+59 'EB' - 138+08 'EB'	2	---	3
	STAGE 3 TOTAL		8	---	15
PROJECT 5992-09-31 TOTALS			**170**	**30**	**400**

ADJUSTING MANHOLE COVER

CATEGORY	STATION	OFFSET	611.8110 (EACH)
0010	CTH PD (WESTBOUND)		
	110+88 'WB'	17' LT	1
	172+40 'WB'	22' LT	1
	172+73 'WB'	21' LT	1
	172+90 'WB'	23' LT	1
	175+53 'WB'	20' LT	1
	CTH PD (EASTBOUND)		
	174+29 'EB'	35' RT	1
	SOUTH HIGH POINT ROAD		
	22+55 'HP'	28' LT	1
PROJECT 5992-09-31 TOTALS			**7**

PIPE SCHEDULE (1)

							608.0412	608.0415	608.0418	608.0421	608.0424	608.0427	608.0430	608.0436	608.0442	608.0448
											CLASS IV					
CATEGORY	STAGE	FROM STRUCTURE	TO STRUCTURE	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE (%)	12-INCH SSPRC (LF)	15-INCH SSPRC (LF)	18-INCH SSPRC (LF)	21-INCH SSPRC (LF)	24-INCH SSPRC (LF)	27-INCH SSPRC (LF)	30-INCH SSPRC (LF)	36-INCH SSPRC (LF)	42-INCH SSPRC (LF)	48-INCH SSPRC (LF)
0040	STAGE 2															
		1.1	1.0	981.06	981.00	0.50%	---	---	---	---	---	---	---	---	13	---
		2.0	1.1	981.19	981.06	0.50%	---	---	---	---	---	---	---	---	26	---
		3.0	2.0	985.47	982.09	1.53%	---	---	---	---	---	---	221	---	---	---
		3.1	3.0	987.29	986.72	1.94%	---	29	---	---	---	---	---	---	---	---
		4.0	3.0	994.52	985.47	2.26%	---	---	---	---	---	---	400	---	---	---
		4.1	4.0	995.20	995.05	0.51%	---	---	---	---	29	---	---	---	---	---
		5.0	4.0	1005.27	997.15	4.06%	---	---	---	---	---	---	200	---	---	---
		5.1	5.0	1005.92	1005.77	0.50%	---	---	---	---	29	---	---	---	---	---
		6.0	5.0	1022.01	1006.06	6.49%	---	---	---	---	---	246	---	---	---	---
		6.1	6.0	1023.15	1023.01	0.47%	---	29	---	---	---	---	---	---	---	---
		7.0	6.0	1033.52	1022.71	7.00%	---	---	---	---	154	---	---	---	---	---
		8.0	7.0	1046.22	1033.52	7.01%	---	---	---	---	181	---	---	---	---	---
		9.0	8.0	1055.09	1046.22	6.67%	---	---	---	---	133	---	---	---	---	---
		9.1	9.0	1056.00	1055.84	0.49%	---	33	---	---	---	---	---	---	---	---
		10.0	9.0	1073.90	1055.45	6.45%	---	---	---	---	286	---	---	---	---	---
		10.1	10.0	1074.80	1074.65	0.51%	---	29	---	---	---	---	---	---	---	---
		11.0	1.1	981.56	981.33	0.50%	---	---	---	---	46	---	---	---	---	---
		11.1	11.0	982.21	982.06	0.50%	---	---	29	---	---	---	---	---	---	---
		11.6	11.2	982.72	982.67	0.50%	10	---	---	---	---	---	---	---	---	---
		12.1	12.0	1028.06	1024.95	8.17%	---	---	---	---	38	---	---	---	---	---
		39.0	12.1	1031.18	1028.06	13.77%	---	---	---	---	23	---	---	---	---	---
		13.0	12.1	1029.92	1028.82	2.07%	---	---	---	---	53	---	---	---	---	---
		13.2	13.0	1031.07	1030.67	0.49%	---	81	---	---	---	---	---	---	---	---
		14.0	13.0	1045.20	1030.11	4.60%	---	---	---	---	328	---	---	---	---	---
		14.1	14.0	1046.09	1045.95	0.47%	---	29	---	---	---	---	---	---	---	---
		15.0	14.0	1069.10	1046.79	6.38%	---	---	---	---	350	---	---	---	---	---
		15.1	15.0	1070.00	1069.85	0.50%	---	29	---	---	---	---	---	---	---	---
		15.4	15.0	1076.41	1071.52	4.30%	---	---	---	---	114	---	---	---	---	---
		15.5	15.4	1082.27	1076.66	9.30%	60	---	---	---	---	---	---	---	---	---
		15.7	15.6	1106.61	1106.05	0.50%	112	---	---	---	---	---	---	---	---	---
		15.8	15.7	1107.33	1106.61	0.50%	144	---	---	---	---	---	---	---	---	---
		16.1	16.0	980.85	980.58	0.60%	---	---	---	---	---	---	---	45	---	---
		17.0	16.1	982.51	980.85	1.76%	---	---	---	---	---	---	---	94	---	---
		17.1	17.0	983.57	983.51	0.58%	---	---	---	---	10	---	---	---	---	---
		18.0	17.0	983.24	983.01	0.50%	---	---	---	---	---	---	45	---	---	---
		18.1	18.0	983.30	983.24	0.62%	---	---	---	---	---	---	10	---	---	---
		19.0	18.1	984.30	983.80	1.08%	---	---	---	---	47	---	---	---	---	---
		20.0	19.0	984.58	984.30	0.60%	---	---	---	---	46	---	---	---	---	---
		20.4	20.0	985.54	985.33	0.73%	---	28	---	---	---	---	---	---	---	---
		21.0	20.0	993.50	984.58	2.98%	---	---	---	---	300	---	---	---	---	---
		21.3	21.0	994.59	994.42	0.50%	---	34	---	---	---	---	---	---	---	---
		22.0	21.0	1003.66	993.67	4.42%	---	---	---	---	226	---	---	---	---	---
		22.3	22.0	1004.91	1004.70	0.62%	---	34	---	---	---	---	---	---	---	---
		24.0	23.0	983.33	983.29	0.50%	---	---	---	---	8	---	---	---	---	---
		27.0	24.0	983.70	983.32	0.66%	---	---	---	---	57	---	---	---	---	---
		27.1	27.0	984.68	984.62	0.50%	---	12	---	---	---	---	---	---	---	---
		27.3	27.0	984.62	984.45	0.59%	---	29	---	---	---	---	---	---	---	---
		27.4	27.3	984.92	984.87	0.50%	10	---	---	---	---	---	---	---	---	---
		27.5	27.3	984.92	984.87	0.50%	10	---	---	---	---	---	---	---	---	---
		28.0	27.0	985.04	983.70	0.50%	---	---	---	---	268	---	---	---	---	---
		28.1	28.0	986.24	986.10	0.50%	---	29	---	---	---	---	---	---	---	---
		28.2	28.1	986.74	986.49	0.50%	49	---	---	---	---	---	---	---	---	---
		28.3	28.2	986.78	986.74	0.49%	8	---	---	---	---	---	---	---	---	---
		28.4	28.3	986.95	986.78	0.50%	35	---	---	---	---	---	---	---	---	---
		29.0	28.0	1000.51	988.99	3.84%	---	---	---	---	300	---	---	---	---	---
		29.3	29.0	1002.34	1002.19	0.51%	---	30	---	---	---	---	---	---	---	---
	SUBTOTAL STAGE 2						437	457	29	---	3,028	246	876	139	38	---

PIPE SCHEDULE (2)

							608.0412	608.0415	608.0418	608.0421	608.0424	608.0427	608.0430	608.0436	608.0442	608.0448
											CLASS IV					
		FROM	TO	INLET	DISCHARGE	SLOPE	12-INCH SSPRC	15-INCH SSPRC	18-INCH SSPRC	21-INCH SSPRC	24-INCH SSPRC	27-INCH SSPRC	30-INCH SSPRC	36-INCH SSPRC	42-INCH SSPRC	48-INCH SSPRC
CATEGORY	STAGE	STRUCTURE	STRUCTURE	ELEVATION	ELEVATION	(%)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)
0040	STAGE 2															
			PREVIOUS SHEET TOTALS				437	457	29	---	3,028	246	876	139	38	---
		32.0	31.0	992.00	991.30	2.25%	---	---	---	31	---	---	---	---	---	---
		32.1	32.0	992.46	992.16	0.93%	---	32	---	---	---	---	---	---	---	---
		32.3	32.2	992.20	992.16	0.49%	---	8	---	---	---	---	---	---	---	---
		33.0	32.0	992.76	992.58	2.25%	---	---	8	---	---	---	---	---	---	---
		35.1	35.0	998.03	997.86	2.12%	---	8	---	---	---	---	---	---	---	---
		35.2	35.1	998.37	998.19	2.25%	---	8	---	---	---	---	---	---	---	---
		35.3	35.1	998.31	998.28	0.50%	6	---	---	---	---	---	---	---	---	---
		38.1	38.0	1040.99	1040.85	0.78%	---	---	18	---	---	---	---	---	---	---
		38.2	38.1	1041.06	1040.99	0.86%	---	---	8	---	---	---	---	---	---	---
		41.1	41.0	978.70	978.40	1.48%	---	---	---	---	---	---	---	---	---	20
		41.2	41.1	981.00	978.70	28.75%	---	---	---	---	---	---	---	---	---	8
		42.1	42.0	981.00	978.90	3.33%	---	---	---	---	---	---	---	63	---	---
		42.2	42.1	983.00	981.00	13.86%	---	---	---	---	---	---	---	14	---	---
		43.1	43.0	985.46	983.50	3.56%	---	---	---	---	---	---	---	---	---	55
		T-103	T-104	996.50	995.99	1.28%	---	40	---	---	---	---	---	---	---	---
	STAGE 2 TOTALS						444	553	64	31	3,028	246	876	217	38	83
	STAGE 3															
		3.2	3.1	987.64	987.29	2.01%	---	17	---	---	---	---	---	---	---	---
		3.3	3.2	987.78	987.64	0.50%	---	29	---	---	---	---	---	---	---	---
		4.2	4.1	995.29	995.20	0.51%	---	---	---	---	18	---	---	---	---	---
		4.3	4.2	995.41	995.29	0.50%	---	---	---	---	24	---	---	---	---	---
		4.4	4.3	998.27	997.84	2.16%	---	20	---	---	---	---	---	---	---	---
		4.5	4.2	995.77	995.66	0.65%	---	---	---	17	---	---	---	---	---	---
		5.2	5.1	1005.98	1005.92	0.50%	---	---	---	---	14	---	---	---	---	---
		5.3	5.2	1006.13	1005.98	0.50%	---	---	---	---	29	---	---	---	---	---
		5.4	5.3	1010.50	1006.13	9.94%	---	---	---	---	44	---	---	---	---	---
		6.2	6.1	1023.23	1023.15	0.53%	---	15	---	---	---	---	---	---	---	---
		6.3	6.2	1023.38	1023.23	0.51%	---	29	---	---	---	---	---	---	---	---
		9.2	9.1	1056.03	1056.00	0.50%	---	6	---	---	---	---	---	---	---	---
		9.3	9.2	1056.23	1056.03	0.49%	---	40	---	---	---	---	---	---	---	---
		10.2	10.1	1074.83	1074.80	0.50%	---	6	---	---	---	---	---	---	---	---
		10.3	10.2	1075.03	1074.83	0.49%	---	40	---	---	---	---	---	---	---	---
		11.2	11.1	982.33	982.21	0.50%	---	---	25	---	---	---	---	---	---	---
		11.3	11.2	982.53	982.33	0.50%	---	---	39	---	---	---	---	---	---	---
		11.4	11.3	983.08	983.03	0.50%	10	---	---	---	---	---	---	---	---	---
		11.5	11.3	983.08	983.03	0.50%	10	---	---	---	---	---	---	---	---	---
		14.2	14.1	1046.17	1046.09	0.49%	---	16	---	---	---	---	---	---	---	---
		14.3	14.2	1046.32	1046.17	0.51%	---	30	---	---	---	---	---	---	---	---
		15.2	15.1	1070.03	1070.00	0.56%	---	6	---	---	---	---	---	---	---	---
		15.3	15.2	1070.17	1070.03	0.47%	---	29	---	---	---	---	---	---	---	---
		20.1	20.0	985.40	985.33	0.58%	---	12	---	---	---	---	---	---	---	---
		20.2	20.1	985.43	985.40	0.50%	---	6	---	---	---	---	---	---	---	---
		20.3	20.2	985.57	985.43	0.47%	---	30	---	---	---	---	---	---	---	---
		21.1	21.0	994.32	994.25	0.55%	---	13	---	---	---	---	---	---	---	---
		21.2	21.1	994.46	994.32	0.47%	---	29	---	---	---	---	---	---	---	---
		22.1	22.4	1004.49	1004.45	0.65%	---	6	---	---	---	---	---	---	---	---
		22.2	22.1	1004.67	1004.49	0.51%	---	36	---	---	---	---	---	---	---	---
		27.2	27.1	985.01	984.93	0.50%	16	---	---	---	---	---	---	---	---	---
		28.5	28.0	989.15	989.10	0.50%	---	10	---	---	---	---	---	---	---	---
		28.6	28.5	989.36	989.15	0.52%	---	40	---	---	---	---	---	---	---	---
		28.7	28.6	990.50	989.36	4.02%	---	28	---	---	---	---	---	---	---	---
		29.1	29.0	1001.34	1001.26	0.60%	---	13	---	---	---	---	---	---	---	---
	SUBTOTAL STAGE 3						36	509	64	17	129	---	---	---	---	---

PIPE SCHEDULE (3)

CATEGORY	STAGE	FROM STRUCTURE	TO STRUCTURE	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE (%)	608.0412 12-INCH SSPRC (LF)	608.0415 15-INCH SSPRC (LF)	608.0418 18-INCH SSPRC (LF)	608.0421 21-INCH SSPRC (LF)	608.0424 24-INCH SSPRC (LF)	608.0427 27-INCH SSPRC (LF)	608.0430 30-INCH SSPRC (LF)	608.0436 36-INCH SSPRC (LF)	608.0442 42-INCH SSPRC (LF)	608.0448 48-INCH SSPRC (LF)
							CLASS IV									
0040	STAGE 3															
			PREVIOUS SHEET TOTALS				36	509	64	17	129	---	---	---	---	---
		29.2	29.1	1001.49	1001.34	0.51%	---	29	---	---	---	---	---	---	---	---
		30.1	30.0	983.52	983.07	5.52%	---	---	---	---	8	---	---	---	---	---
		30.2	30.1	984.76	984.52	0.50%	48	---	---	---	---	---	---	---	---	---
		30.3	30.2	984.81	984.76	0.50%	10	---	---	---	---	---	---	---	---	---
		30.4	30.3	984.86	984.81	0.50%	10	---	---	---	---	---	---	---	---	---
		32.2	32.1	992.74	992.71	0.50%	7	---	---	---	---	---	---	---	---	---
		34.1	34.0	982.40	981.98	5.25%	---	---	---	---	8	---	---	---	---	---
		34.2	34.1	983.91	983.40	0.50%	102	---	---	---	---	---	---	---	---	---
		36.1	36.0	991.38	991.07	3.76%	---	---	---	---	---	---	---	8	---	---
		36.2	36.1	991.55	991.38	2.19%	---	---	---	---	---	---	---	8	---	---
		37.1	37.0	1018.71	1018.16	3.64%	15	---	---	---	---	---	---	---	---	---
	STAGE 3 TOTALS						227	538	64	17	145	---	---	16	---	---
PROJECT 5992-09-31 TOTALS							**670**	**1,092**	**128**	**48**	**3,173**	**246**	**876**	**233**	**38**	**83**

PIPE GRATES

611.9800.S

CATEGORY	STRUC. NO.	STATION	OFFSET TO CENTER OF STRUCTURE	(EACH)	NOTES
0040	1.0	148+21 'WB'	57.2' LT	1	42-INCH ENDWALL
PROJECT 5992-09-31 TOTALS				**1**	

STRUCTURE SCHEDULE (1)

CATEGORY	STAGE	STRUC. NO.	STATION	OFFSET TO CENTER OF STRUCTURE	CASTING ELEV.	TOP OF STR. ELEV.	BOTTOM OF STR. ELEV.	DEPTH	520.8000 CONCRETE COLLAR (EACH)	611.0410 RECONSTRUCTING CATCH BASINS (EACH)	611.0612 INLET COVERS TYPE C (EACH)	MANHOLES 611.2003 3-FT DIAMETER (EACH)	MANHOLES 611.2004 4-FT DIAMETER (EACH)	MANHOLES 611.2005 5-FT DIAMETER (EACH)	MANHOLES 611.2006 6-FT DIAMETER (EACH)	MANHOLES 611.2007 7-FT DIAMETER (EACH)	611.3230 INLETS 2x3-FT (EACH)	SPV.0060.001 INLET COVER TYPE H SPECIAL (EACH)	SPV.0060.014 INLET COVER TYPE H-S SPECIAL (EACH)	SPV.0060.002 INLET COVERS TERRACE TYPE 3 SPECIAL (EACH)	SPV.0060.003 TERRACE INLET TYPE 3 SPECIAL (EACH)	SPV.0060.004 MANHOLE COVER TYPE J MODIFIED (EACH)	SPV.0060.101 POND OUTLET CONTROL MANHOLE (EACH)	SPV.0060.011 TEMPORARY INLET COVER (EACH)	
0040	STAGE 2																								
		1.0	148+21 'WB'	57.2' LT		ENDWALL			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		1.1	148+21 'WB'	49.3' LT	986.17	984.92	980.68	4.23	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	
		2.0	148+06 'WB'	28.5' LT	986.91	985.98	980.68	5.29	---	---	---	---	---	---	1	---	---	1	---	---	---	---	---	---	
		3.0	146+00 'WB'	28.5' LT	990.97	990.03	985.18	4.85	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		3.1	146+00 'WB'	1.0' RT	991.54	990.61	987.10	3.50	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		4.0	142+00 'WB'	28.5' LT	1,002.65	1001.71	994.23	7.48	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	---	
		4.1	142+00 'WB'	1.0' RT	1,003.22	1002.28	994.95	7.33	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	1	*
		5.0	140+00 'WB'	28.5' LT	1,011.31	1010.37	1004.98	5.40	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	---	
		5.1	140+00 'WB'	1.0' RT	1,011.88	1010.95	1005.67	5.28	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		6.0	137+54 'WB'	28.5' LT	1,027.71	1026.77	1021.74	5.04	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		6.1	137+55 'WB'	1.0' RT	1,028.24	1027.30	1022.96	4.34	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		7.0	136+00 'WB'	28.5' LT	1,038.52	1037.58	1033.27	4.31	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		8.0	134+19 'WB'	28.9' LT	1,051.22	1050.28	1045.97	4.31	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		9.0	132+86 'WB'	31.7' LT	1,060.44	1059.50	1054.84	4.67	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		9.1	132+86 'WB'	1.0' RT	1,061.08	1060.14	1055.81	4.33	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	1	*
		10.0	130+00 'WB'	28.5' LT	1,079.41	1078.47	1073.65	4.82	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		10.1	130+00 'WB'	1.0' RT	1,080.02	1079.08	1074.61	4.47	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		11.0	148+62 'WB'	28.5' LT	986.61	985.68	981.31	4.36	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	
		11.1	148+62 'WB'	1.0' RT	987.29	986.35	982.00	4.35	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	
		11.6	148+72 'WB'	28.5' LT	986.56	985.62	982.55	3.07	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		12.0	110+88 'WB'	17.1' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		12.1	111+24 'WB'	5.5' LT	1,033.82	1032.57	1027.81	4.76	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	
		13.0	111+72 'WB'	28.5' LT	1,034.77	1033.83	1029.67	4.16	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	---	
		14.0	115+00 'WB'	28.5' LT	1,051.79	1050.85	1044.95	5.90	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		14.1	115+00 'WB'	1.0' RT	1,052.36	1051.42	1045.90	5.52	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		15.0	118+50 'WB'	28.5' LT	1,075.18	1074.24	1068.85	5.39	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		15.1	118+50 'WB'	1.0' RT	1,075.75	1074.81	1069.81	5.00	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		15.4	119+64 'WB'	28.5' LT	1,081.61	1080.67	1076.16	4.50	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		15.5	119+64 'WB'	88.8' LT	1,089.50	1088.56	1082.10	6.46	---	---	1	1	---	---	---	---	---	---	---	---	---	---	---	---	
		15.6	121+58 'WB'	59.2' LT		ENDWALL			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		15.7	122+70 'WB'	65.9' LT	1,115.99	1115.05	1106.44	8.61	---	---	1	1	---	---	---	---	---	---	---	---	---	---	---	---	
		15.8	124+13 'WB'	68.2' LT	1,110.50	1109.56	1107.16	2.40	---	---	1	1	---	---	---	---	---	---	---	---	---	---	---	---	
		16.0	150+77 'WB'	50.8' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		16.1	151+07 'WB'	85.0' LT	989.43	988.18	980.52	7.66	---	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	
		17.0	151+98 'WB'	64.0' LT	988.66	987.41	982.18	5.23	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	
		17.1	151+93 'WB'	55.3' LT	989.00	989.00	983.32	5.68	---	---	---	---	---	---	---	---	1	---	---	1	2	---	---	---	
		18.0	152+43 'WB'	63.0' LT	988.87	987.93	982.95	4.98	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	---	
		18.1	152+50 'WB'	55.2' LT	989.00	989.00	983.01	5.99	---	---	---	---	1	---	---	---	---	---	---	1	2	---	---	---	
		19.0	152+65 'WB'	11.0' LT	989.86	988.61	984.05	4.55	---	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	
		20.0	153+10 'WB'	0.0' RT	990.46	989.21	984.33	4.88	---	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	
		20.4	153+10 'WB'	28.5' LT	989.83	988.89	985.35	3.54	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		21.0	156+10 'WB'	5.3' RT	999.49	998.55	993.25	5.30	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	1	*
		21.3	156+10 'WB'	28.5' LT	998.84	997.90	994.40	3.50	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		22.0	158+36 'WB'	5.6' RT	1,008.90	1007.65	1003.41	4.24	---	---	---	---	1	---	---	---	---	---	---	---	---	1	---	1	*
		22.3	158+36 'WB'	28.5' LT	1,008.37	1007.43	1004.72	2.71	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		23.0	171+38 'WB'	24.8' LT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		24.0	171+30 'WB'	24.8' LT	989.21	987.96	983.08	4.88	---	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	
		27.0	170+78 'WB'	0.0' RT	989.54	988.29	983.45	4.84	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	
		27.1	170+78 'WB'	12.0' RT	989.70	988.76	984.49	4.27	1	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		27.3	170+78 'WB'	28.7' LT	988.80	987.86	984.43	3.43	---	---	---	---	---	---	---	---	1	---	1	---	---	---	---	---	
		27.4	170+68 'WB'	28.7' LT	988.85	987.91	984.75	3.16	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		27.5	170+88 'WB'	28.7' LT	988.85	987.91	984.75	3.16	---	---	---	---	---	---	---	---	1	---	1	---	---	---	---	---	
		28.0	168+10 'WB'	1.0' RT	993.99	993.05	984.79	8.26	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	1	*
		28.1	168+10 'WB'	28.5' LT	993.42	992.48	986.05	6.43	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	

STRUCTURE SCHEDULE (2)

CATEGORY	STAGE	STRUC. NO.	STATION	OFFSET TO CENTER OF STRUCTURE	CASTING ELEV.	TOP OF STR. ELEV.	BOTTOM OF STR. ELEV.	DEPTH	520.8000 CONCRETE COLLAR (EACH)	611.0410 RECONSTRUCTING CATCH BASINS (EACH)	611.0612 INLET COVERS TYPE C (EACH)	611.2003 MANHOLES 3-FT DIAMETER (EACH)	611.2004 MANHOLES 4-FT DIAMETER (EACH)	611.2005 MANHOLES 5-FT DIAMETER (EACH)	611.2006 MANHOLES 6-FT DIAMETER (EACH)	611.2007 MANHOLES 7-FT DIAMETER (EACH)	611.3230 INLETS 2x3-FT (EACH)	SPV.0060.001 INLET COVER TYPE H SPECIAL (EACH)	SPV.0060.014 INLET COVER TYPE H-S SPECIAL (EACH)	SPV.0060.002 INLET COVERS TERRACE TYPE 3 SPECIAL (EACH)	SPV.0060.003 TERRACE INLET TYPE 3 SPECIAL (EACH)	SPV.0060.004 MANHOLE COVER TYPE J SPEICAL (EACH)	SPV.0060.101 POND OUTLET CONTROL MANHOLE (EACH)	SPV.0060.011 TEMPORARY INLET COVER (EACH)	
0040	STAGE 2																								
				PREVIOUS SHEET TOTALS					2	---	3	3	18	6	4	1	17	31	4	2	4	9	---	5	
		28.2	168+52 'WB'	53.9' LT	991.45	990.51	986.57	3.94	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		28.3	168+52 'WB'	62.1' LT	991.09	990.16	986.61	3.55	---	---	---	---	---	---	---	---	1	---	1	---	---	---	---	---	
		28.4	168+87 'WB'	62.0' LT	990.96	990.02	986.78	3.24	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		29.0	165+10 'WB'	1.0' RT	1,007.16	1006.22	1000.26	5.96	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		29.3	165+11 'WB'	28.5' LT	1,006.55	1005.61	1002.15	3.46	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		31.0	174+69 'WB'	20.7' LT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		32.0	175+00 'WB'	20.3' LT	996.59	995.34	991.67	3.67	---	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	
		32.1	175+00 'WB'	12.0' RT	997.15	996.21	992.27	3.94	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		32.3	175+00 'WB'	28.5' LT	996.36	995.42	992.01	3.41	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		33.0	175+08 'WB'	20.3' LT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		35.0	177+91 'WB'	22.2' LT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		35.1	177+99 'WB'	22.4' LT	1,003.23	1001.98	997.84	4.14	---	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	
		35.2	178+07 'WB'	22.8' LT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		35.3	177+99 'WB'	28.5' LT	1,003.03	1002.10	998.14	3.96	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		38.0	22+55 'HP'	28.2' LT	1,047.86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		38.1	22+63 'HP'	44.4' LT	1,047.23	1046.29	1040.78	5.52	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		38.2	22+68 'HP'	50.5' LT	---	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		41.0	16+32 'BM'	20.4' LT		ENDWALL			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		41.1	16+44 'BM'	35.9' LT	985.00	984.25	978.28	5.97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	
		41.2	16+44 'BM'	43.8' LT		ENDWALL			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		42.0	17+36 'BM'	21.6' RT		ENDWALL			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		42.1	17+85 'BM'	61.3' RT	988.50	987.75	980.67	7.08	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	
		42.2	17+89 'BM'	75.1' RT		ENDWALL			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		43.0	22+38 'PB'	9.2' LT		ENDWALL			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		43.1	22+34 'PB'	62.8' LT		STORM SEWER PLUG			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		T-100	111+74 'WB'	8.0' RT	1,035.05	1034.05	1030.66	3.39	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
		T-101	137+55 'WB'	6.4' RT	1,027.01	1026.01	1022.99	3.02	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
		T-102	140+00 'WB'	5.0' RT	1,011.42	1010.42	1005.75	4.67	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
		T-103	142+40 'WB'	8.7' RT	1,001.43	1000.43	994.99	5.44	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
		T-104	142+00 'WB'	9.0' RT	1,002.98	1001.98	996.31	5.67	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
		T-105	146+00 'WB'	6.0' RT	990.36	989.36	987.20	2.16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
		T-106	165+10 'WB'	6.0' RT	1,005.97	1004.97	1001.18	3.80	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
		T-107	170+78 'WB'	6.0' RT	988.29	987.29	984.71	2.58	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
STAGE 2 TOTAL									7	1	3	3	22	6	4	1	24	39	5	2	4	11	2	13	
STAGE 3																									
		3.2	146+00 'WB'	18.0' RT	992.60	991.67	987.45	4.22	1	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		3.3	146+00 'WB'	47.5' RT	992.03	991.09	987.59	3.50	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		4.2	142+00 'WB'	18.8' RT	1,002.85	1001.91	995.04	6.87	1	---	---	---	1	---	---	---	---	1	---	---	---	---	---	1	**
		4.3	142+16 'WB'	36.4' RT	1,002.09	1000.84	995.16	5.68	---	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	
		4.4	142+00 'WB'	48.3' RT	1,002.27	1001.33	998.08	3.25	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		4.5	142+18 'WB'	53.1' RT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		5.2	140+00 'WB'	14.7' RT	1,011.73	1010.79	1005.73	5.06	1	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		5.3	140+00 'WB'	44.2' RT	1,011.13	1010.19	1005.88	4.31	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		5.4	139+73 'WB'	78.7' RT		ENDWALL			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		6.2	137+55 'WB'	16.0' RT	1,028.19	1027.25	1023.04	4.21	1	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		6.3	137+56 'WB'	45.4' RT	1,027.62	1026.69	1023.19	3.50	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		9.2	132+86 'WB'	7.0' RT	1,061.26	1060.32	1055.84	4.48	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	1	**
		9.3	132+86 'WB'	47.5' RT	1,060.48	1059.54	1056.04	3.50	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		10.2	130+00 'WB'	7.0' RT	1,080.07	1079.13	1074.64	4.49	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		10.3	130+00 'WB'	47.5' RT	1,079.28	1078.34	1074.84	3.50	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		11.2	148+85 'WB'	9.8' RT	987.82	986.88	982.12	4.76	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	
		11.3	148+97 'WB'	47.5' RT	986.98	986.04	982.32	3.72	---	---	---	---	---	---	---	---	1	---	1	---	---	---	---	---	
STAGE 3 SUBTOTAL									5	---	---	---	5	---	---	---	10	12	2	---	---	1	---	2	

* TEMPORARY CASTING TO BE PLACED DURING STAGE 2. FINAL CASTING TO BE PLACED DURING STAGE 4/** TEMPORARY CASTING TO BE PLACED DURING STAGE 3. FINAL CASTING TO BE PLACE DURING STAGE 4.

STRUCTURE SCHEDULE (3)

CATEGORY	STAGE	STRUC. NO.	STATION	OFFSET TO CENTER OF STRUCTURE	CASTING ELEV.	TOP OF STR. ELEV.	BOTTOM OF STR. ELEV.	DEPTH	520.8000 CONCRETE COLLAR (EACH)	611.0410 RECONSTRUCTING CATCH BASINS (EACH)	611.0612 INLET COVERS TYPE C (EACH)	MANHOLES 611.2003 3-FT DIAMETER (EACH)	MANHOLES 611.2004 4-FT DIAMETER (EACH)	MANHOLES 611.2005 5-FT DIAMETER (EACH)	MANHOLES 611.2006 6-FT DIAMETER (EACH)	MANHOLES 611.2007 7-FT DIAMETER (EACH)	611.3230 INLETS 2x3-FT (EACH)	SPV.0060.001 INLET COVER TYPE H SPECIAL (EACH)	SPV.0060.014 INLET COVER TYPE H-S SPECIAL (EACH)	SPV.0060.002 INLET COVERS TERRACE TYPE 3 SPECIAL (EACH)	SPV.0060.003 TERRACE INLET TYPE 3 SPECIAL (EACH)	SPV.0060.004 MANHOLE COVER TYPE J MODIFIED (EACH)	SPV.0060.101 POND OUTLET CONTROL MANHOLE (EACH)	SPV.0060.011 TEMPORARY INLET COVER (EACH)	
0040	STAGE 3																								
				PREVIOUS SHEET TOTALS					5	---	---	---	5	---	---	---	10	12	2	---	---	1	---	2	
		11.4	149+07 'WB'	47.5' RT	987.03	986.09	982.91	3.18	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		11.5	148+87 'WB'	47.5' RT	987.03	986.09	982.91	3.18	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		13.2	111+76 'WB'	52.3' RT	1,035.40	1034.46	1030.88	3.58	1	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		14.2	115+00 'WB'	17.3' RT	1,051.24	1050.30	1045.98	4.32	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		14.3	115+00 'WB'	46.8' RT	1,050.57	1049.64	1046.13	3.51	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		15.2	118+50 'WB'	7.0' RT	1,075.00	1074.06	1069.84	4.22	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		15.3	118+50 'WB'	36.5' RT	1,074.43	1073.49	1069.98	3.51	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		20.1	153+10 'WB'	12.0' RT	990.62	989.68	985.21	4.47	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		20.2	153+10 'WB'	17.9' RT	990.41	989.48	985.24	4.24	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		20.3	153+10 'WB'	47.5' RT	989.83	988.89	985.38	3.51	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		21.1	156+10 'WB'	18.0' RT	999.29	998.35	994.13	4.22	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		21.2	156+10 'WB'	47.5' RT	998.71	997.78	994.27	3.51	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		22.1	158+36 'WB'	18.0' RT	1,008.75	1007.82	1004.30	3.52	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		22.2	158+36 'WB'	53.6' RT	1,008.05	1007.12	1004.48	2.64	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		22.4	158+36 'WB'	12.0' RT	1,008.73	1007.79	1004.26	3.53	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		27.2	170+65 'WB'	20.4' RT	989.01	988.07	984.84	3.23	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		28.5	168+10 'WB'	11.0' RT	993.59	992.65	988.96	3.69	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	1	**
		28.6	168+10 'WB'	51.5' RT	992.61	991.68	989.17	2.51	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		28.7	167+97 'WB'	76.7' RT		ENDWALL			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		29.1	165+10 'WB'	14.4' RT	1,006.32	1005.38	1001.15	4.23	1	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		29.2	165+09 'WB'	43.9' RT	1,005.74	1004.80	1001.30	3.50	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		30.0	171+28 'WB'	75.2' RT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		30.1	171+20 'WB'	72.6' RT	989.83	988.58	983.27	5.31	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	
		30.2	170+78 'WB'	49.6' RT	988.39	987.45	984.59	2.86	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	
		30.3	170+68 'WB'	49.8' RT	988.34	987.40	984.64	2.76	---	---	---	---	---	---	---	---	1	---	1	---	---	---	---	---	
		30.4	170+58 'WB'	50.1' RT	988.39	987.45	984.69	2.76	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		32.2	175+00 'WB'	18.8' RT	996.74	995.80	992.57	3.23	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		34.0	151+59 'WB'	67.1' RT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		34.1	151+51 'WB'	67.0' RT	989.29	988.04	982.15	5.89	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	
		34.2	150+50 'WB'	73.9' RT	987.10	986.16	983.74	2.42	---	---	1	1	---	---	---	---	---	---	---	---	---	---	---	---	
		36.0	175+00 'WB'	48.3' RT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		36.1	175+08 'WB'	48.3' RT	996.34	995.41	991.05	4.36	---	---	---	---	---	---	1	---	---	1	---	---	---	---	---	---	
		36.2	175+16 'WB'	47.5' RT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		37.0	22+61 'MD'	26.6' LT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		37.1	22+61 'MD'	41.7' LT	1,021.87	1020.93	1018.54	2.39	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	
		39.0	111+46 'WB'	1.4' RT	1,035.15	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	
		39.1	111+45 'WB'	9.4' RT	1,035.25	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	
		40.0	24+63 'HP'	12.5' LT	1,045.78	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	
		40.1	24+50 'HP'	1.0' LT	1,046.00	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	
	STAGE 3 TOTAL								12	4	1	1	10	---	1	---	32	41	3	---	---	3	---	3	
PROJECT 5992-09-31 TOTALS									**19**	**5**	**4**	**4**	**32**	**6**	**5**	**1**	**56**	**80**	**8**	**2**	**4**	**14**	**2**	**16**	

** TEMPORARY CASTING TO BE PLACED DURING STAGE 3. FINAL CASTING TO BE PLACE DURING STAGE 4.

WATER

624.0100

CATEGORY	LOCATION	TASK	(MGAL)
0010	PROJECT	DUST CONTROL	1,000
		COMPACTION	1,000
PROJECT 5992-09-31 TOTALS			**2,000**

POND CLAY LINER

640.1303.S

CATEGORY	STATION TO STATION	(CY)
0040	POND A	
	10+00 'PA' - 19+46 'PA'	516
	POND B	
	20+00 'PB' - 25+81 'PB'	484
PROJECT 5992-09-31 TOTALS		**1,000**

LANDSCAPING

CATEGORY	STAGE	STATION TO STATION	625.0100 TOPSOIL (SY)	625.0500 SALVAGED TOPSOIL (SY)	627.0200 MULCHING (SY)	628.0210 FERTILIZER TYPE B (CWT)	630.0140 SEEDING MIXTURE NO. 40 (LB)	630.0200 SEEDING TEMPORARY (LB)	SPV.0085.004 SEEDING MIXTURE, DETENTION BASIN (LB)	SPV.0085.003 NO MOW LAWN SEED (LB)
0010	STAGE 2									
		CTH PD (WESTBOUND)								
		110+63 'WB' - 133+59 'WB'	6,011	1,205	3,393	4.55	61	92	---	425
		133+59 'WB' - 138+08 'WB'	319	---	---	0.20	---	---	---	---
		138+08 'WB' - 142+52 'WB'	318	---	---	0.20	---	---	---	---
		142+52 'WB' - 152+32 'WB'	19,926	---	---	12.55	---	---	100	---
		152+32 'WB' - 168+69 'WB'	1,361	---	---	0.86	---	---	---	---
		168+69 'WB' - 174+44 'WB'	327	---	---	0.21	---	---	---	---
		174+44 'WB' - 185+95 'WB'	236	---	---	0.15	---	---	---	---
		SOUTH HIGH POINT ROAD								
		20+00 'HP' - 24+72 'HP'	1,293	---	663	0.81	12	18	---	---
		STRATTON WAY								
		30+00 'SW' - 31+50 'SW'	225	---	---	0.14	---	---	---	---
		SNOWY PARKWAY								
		41+00 'SP' - 41+94 'SP'	---	---	---	---	---	---	---	---
		MUIR FIELD ROAD								
		54+50 'CM' - 57+00 'CM'	229	---	---	0.14	---	---	---	---
		SILVERTON TRAIL								
		72+35 'TS' - 73+00 'TS'	63	---	---	0.04	---	---	---	---
		ICE AGE TRAIL CROSSING, SPECIALITY SEED AREAS	---	5,477	---	---	---	---	---	---
		UNDISTRUTED	3,031	121	406	1.99	7	11	10	43
STAGE 2 TOTAL			33,339	6,803	4,462	21.84	80	120	110	468
	STAGE 3									
		CTH PD (WESTBOUND)								
		174+44 'WB' - 185+95 'WB'	17	---	---	0.01	---	---	---	---
		CTH PD (EASTBOUND)								
		110+63 'EB' - 133+59 'EB'	7378	6736	3598	8.89	65	97	---	2315
		133+59 'EB' - 138+08 'EB'	592	7027	---	4.80	---	---	---	---
		138+08 'EB' - 142+52 'EB'	780	326	---	0.70	---	---	---	55
		142+52 'EB' - 152+32 'EB'	2025	---	---	1.28	---	---	---	207
		152+32 'EB' - 168+69 'EB'	4230	---	---	2.66	---	---	---	440
		168+69 'EB' - 174+44 'EB'	782	---	---	0.49	---	---	---	73
		174+44 'EB' - 185+95 'EB'	196	---	---	0.12	---	---	---	6
STAGE 3 SUBTOTAL			16,000	14,089	3,598	18.96	65	97	0	3,096

LANDSCAPING

CATEGORY	STAGE	STATION TO STATION	625.0100 TOPSOIL (SY)	625.0500 SALVAGED TOPSOIL (SY)	627.0200 MULCHING (SY)	628.0210 FERTILIZER TYPE B (CWT)	630.0140 SEEDING MIXTURE NO. 40 (LB)	630.0200 SEEDING TEMPORARY (LB)	SPV.0085.004 SEEDING MIXTURE, DETENTION BASIN (LB)	SPV.0085.003 NO MOW LAWN SEED (LB)
0010	STAGE 2 TOTAL		33,339	6,803	4,462	21.84	80	120	110	468
	STAGE 3 SUBTOTAL		16,000	14,089	3,598	18.96	65	97	0	3,096
		SNOWY PARKWAY								
		41+00 'SP' - 41+94 'SP'	104	---	---	0.07	---	---	---	---
		COUNTRY GROVE DRIVE								
		52+16 'CM' - 54+30 'CM'	175	---	5	0.11	0	0	---	---
		TANGLEWOOD DRIVE								
		71+15 'TS' - 72+12 'TS'	99	---	---	0.06	---	---	---	---
		STONECREEK DRIVE								
		92+23 'SD' - 93+07 'SD'	75	---	---	0.05	---	---	---	---
		MAPLE GROVE DRIVE								
		20+24 'MD' - 21+35 'MD'	72	---	---	0.05	---	---	---	---
		22+00 'MD' - 24+61 'MD'	163	---	---	0.10	---	---	---	---
		UNDISTRUTED	1669	1608	435	1.97	4	-7	0	337
	STAGE 3 TOTAL		18,356	15,697	4,038	21.36	69	90	0	3,432
	STAGE 4									
		CTH PD (WESTBOUND)								
		110+63 'WB' - 133+59 'WB'	566	---	---	0.36	---	---	---	---
		133+59 'WB' - 138+08 'WB'	183	---	---	0.12	---	---	---	---
		138+08 'WB' - 142+52 'WB'	570	---	---	0.36	---	---	---	---
		142+52 'WB' - 152+32 'WB'	71	---	---	0.04	---	---	---	---
		152+32 'WB' - 168+69 'WB'	118	---	---	0.07	---	---	---	---
		168+69 'WB' - 174+44 'WB'	411	---	---	0.26	---	---	---	---
		174+44 'WB' - 185+95 'WB'	683	---	---	0.43	---	---	---	---
		UNDISTRUTED	303	0	0	0.16	0	0	0	0
	STAGE 4 TOTAL		2,906	0	0	1.80	0	0	0	0
	PROJECT 5992-09-31 TOTALS		**54,600**	**22,500**	**8,500**	**45.00**	**150**	**210**	**110**	**3,900**

LANDMARK REFERENCE MONUMENTS

CATEGORY	STATION	OFFSET	621.0100 (EACH)
0010	CTH PD (WESTBOUND)		
	120+00 'WB'	18' RT	1
	132+81 'WB'	18' RT	1
	146+41 'WB'	20' RT	1
PROJECT 5992-09-31 TOTALS			**3**

COVER PLATES TEMPORARY

CATEGORY	STRUC. NO.	STATION	OFFSET TO CENTER OF STRUCTURE	611.8120.S (EACH)
0040	EXISTING	107+52 'WB'	9.8 LT	1
	EXISTING	107+53 'WB'	2.0 LT	1
	EXISTING	177+48 'WB'	1.16 RT	1
	EXISTING	177+48 'WB'	7.61 RT	1
	9.1	132+85 'WB'	1.6 RT	1
	9.2	132+85 'EB'	12.0 LT	1
	28.0	168+00 'WB'	1.5 RT	1
	4.1	142+00 'WB'	1.5 RT	1
PROJECT 5992-09-31 TOTALS				**8**

EROSION CONTROL MOBILZATION

CATEGORY	LOCATION	628.1905 MOBILIZATION EROSION CONTROL (EACH)	628.1910 MOBILIZATION EMERGENCY EROSION CONTROL (EACH)
0010	STAGE 1	2	1
	STAGE 2	5	3
	STAGE 3	5	2
	STAGE 4	2	1
PROJECT 5992-09-31 TOTALS		**14**	**7**

PIPE UNDERDRAIN

CATEGORY	STAGE	STATION TO STATION	OFFSET	612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH (LF)	209.0300.S BACKFILL COARSE AGGREGATE NO 1 (CY)
0040	STAGE 2				
		CTH PD (WESTBOUND)			
		110+63 'WB' - 133+59 'WB'	---	75	3
		133+59 'WB' - 138+08 'WB'	---	75	3
		138+08 'WB' - 142+52 'WB'	---	75	3
		142+52 'WB' - 152+32 'WB'	---	202	7
		152+32 'WB' - 168+69 'WB'	---	75	3
		168+69 'WB' - 174+44 'WB'	---	170	6
		174+44 'WB' - 185+95 'WB'	---	75	3
		POND A			
		14+54 'PA'	29.4' RT	---	5
		MUIR FIELD ROAD			
		54+50 'CM' - 57+00 'CM'	---	347	12
		SILVERTON TRAIL			
		72+35 'TS' - 73+00 'TS'	---	91	3
	STAGE 2 TOTAL			1,185	48
	STAGE 3				
		CTH PD (EASTBOUND)			
		110+63 'EB' - 133+59 'EB'	---	75	3
		133+59 'EB' - 138+08 'EB'	---	75	3
		138+08 'EB' - 142+52 'EB'	---	75	3
		142+52 'EB' - 152+32 'EB'	---	170	6
		152+32 'EB' - 168+69 'EB'	---	75	3
		168+69 'EB' - 174+44 'EB'	---	170	6
		174+44 'EB' - 185+95 'EB'	---	75	3
	STAGE 3 TOTAL			715	26
	STAGE 4				
		CTH PD (WESTBOUND)			
		110+63 'WB' - 133+59 'WB'	---	75	3
		133+59 'WB' - 138+08 'WB'	---	75	3
		138+08 'WB' - 142+52 'WB'	---	75	3
		142+52 'WB' - 152+32 'WB'	---	150	6
		152+32 'WB' - 168+69 'WB'	---	75	3
		168+69 'WB' - 174+44 'WB'	---	150	6
		174+44 'WB' - 185+95 'WB'	---	75	3
		CTH PD (EASTBOUND)			
		110+63 'EB' - 133+59 'EB'	---	75	3
		133+59 'EB' - 138+08 'EB'	---	75	3
		138+08 'EB' - 142+52 'EB'	---	75	3
		142+52 'EB' - 152+32 'EB'	---	150	6
		152+32 'EB' - 168+69 'EB'	---	75	3
		168+69 'EB' - 174+44 'EB'	---	150	6
		174+44 'EB' - 185+95 'EB'	---	75	3
	STAGE 4 TOTAL			1,350	50
PROJECT 5992-09-31 TOTALS				**3,250**	**125**

DUST CONTROL

CATEGORY	STAGE	STATION TO STATION	623.0200 DUST CONTROL SURFACE TREATMENT (SY)	SPV.0180.001 GEOGRID REINFORCEMENT (SY)
0010	STAGE 1			
		CTH PD (WESTBOUND)		
		174+44 'WB' - 185+95 'WB'	485	---
		CTH PD (EASTBOUND)		
		105+00 'EB' - 110+63 'EB'	721	---
		110+63 'EB' - 133+59 'EB'	2,069	---
		133+59 'EB' - 138+08 'EB'	749	---
		138+08 'EB' - 142+52 'EB'	533	---
		142+52 'EB' - 152+32 'EB'	247	---
		SOUTH HIGH POINT ROAD		
		20+00 'HP' - 24+72 'HP'	167	---
		UNDISTRIBUTED	---	497
	STAGE 1 TOTAL		4,971	497
	STAGE 2			
		CTH PD (WESTBOUND)		
		110+63 'WB' - 133+59 'WB'	12,390	---
		133+59 'WB' - 138+08 'WB'	2,299	---
		138+08 'WB' - 142+52 'WB'	2,085	---
		142+52 'WB' - 152+32 'WB'	4,585	---
		152+32 'WB' - 168+69 'WB'	7,713	---
		168+69 'WB' - 174+44 'WB'	2,555	---
		174+44 'WB' - 185+95 'WB'	1,793	---
		SOUTH HIGH POINT ROAD		
		20+00 'HP' - 24+72 'HP'	2,437	---
		STRATTON WAY		
		30+00 'SW' - 31+50 'SW'	448	---
		MUIR FIELD ROAD		
		54+50 'CM' - 57+00 'CM'	630	---
		SILVERTON TRAIL		
		72+35 'TS' - 73+00 'TS'	35	---
		UNDISTRIBUTED	---	3,745
	STAGE 2 TOTAL		36,969	3,745
	STAGE 3			
		CTH PD (WESTBOUND)		
		174+44 'WB' - 185+95 'WB'	37	---
	STAGE 3 SUBTOTAL		37	---
0010	STAGE 2 SUBTOTAL		37	0
	STAGE 3			
		CTH PD (EASTBOUND)		
		110+63 'EB' - 133+59 'EB'	11,856	---
		133+59 'EB' - 138+08 'EB'	2,233	---
		138+08 'EB' - 142+52 'EB'	2,253	---
		142+52 'EB' - 152+32 'EB'	5,323	---
		152+32 'EB' - 168+69 'EB'	8,841	---
		168+69 'EB' - 174+44 'EB'	3,026	---
		174+44 'EB' - 185+95 'EB'	1,306	---
		SNOWY PARKWAY		
		41+00 'SP' - 41+94 'SP'	151	---
		COUNTRY GROVE DRIVE		
		52+16 'CM' - 54+30 'CM'	659	---
		TANGLEWOOD DRIVE		
		71+15 'TS' - 72+12 'TS'	171	---
		STONECREEK DRIVE		
		92+23 'SD' - 93+07 'SD'	121	---
		MAPLE GROVE DRIVE		
		20+24 'MD' - 21+35 'MD'	216	---
		22+00 'MD' - 24+61 'MD'	781	---
		UNDISTRIBUTED	---	3698
	STAGE 3 TOTAL		36,976	3,698
	STAGE 4			
		CTH PD (WESTBOUND)		
		110+63 'WB' - 133+59 'WB'	2,351	---
		133+59 'WB' - 138+08 'WB'	922	---
		138+08 'WB' - 142+52 'WB'	332	---
		142+52 'WB' - 152+32 'WB'	955	---
		152+32 'WB' - 168+69 'WB'	1,235	---
		168+69 'WB' - 174+44 'WB'	1,152	---
		174+44 'WB' - 185+95 'WB'	1,020	---
		CTH PD (EASTBOUND)		
		142+52 'EB' - 152+32 'EB'	485	---
		152+32 'EB' - 168+69 'EB'	626	---
		SOUTH HIGH POINT ROAD		
		20+00 'HP' - 24+72 'HP'	5	---
		UNDISTRIBUTED	---	860
	STAGE 4 TOTAL		9,084	860
PROJECT 5992-09-31 TOTALS			**88,000**	**8,800**

EROSION CONTROL (1)

CATEGORY	STAGE	STATION TO STATION	628.1104 EROSION BALES (EACH)	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)	628.1920 CLEANING SEDIMENT BASINS (CY)	628.2008 EROSION MAT URBAN CLASS I TYPE B (SY)	628.2027 EROSION MAT CLASS II TYPE C (SY)	628.2031 EROSION MAT CLASS III TYPE A (SY)	628.7005 INLET PROTECTION TYPE A (EACH)	628.7015 INLET PROTECTION TYPE C (EACH)	628.7020 INLET PROTECTION TYPE D (EACH)	628.7504 TEMPORARY DITCH CHECKS (LF)	628.7555 CULVERT PIPE CHECK TEMPORARY (EACH)	628.7560 TRACKING PADS (EACH)	631.0300 SOD WATER (MGAL)	631.1000 SOD LAWN (SY)
0010	STAGE 2																
		CTH PD (WESTBOUND)															
		110+63 'WB' - 133+59 'WB'	---	100	201	---	4,088	---	---	14	14	---	304	1	2	0	15
		133+59 'WB' - 138+08 'WB'	---	199	398	---	85	---	---	4	4	---	---	---	2	5	234
		138+08 'WB' - 142+52 'WB'	---	---	---	---	74	---	---	4	4	---	---	---	1	5	244
		142+52 'WB' - 152+32 'WB'	---	---	---	10	9,363	489	---	7	6	1	192	---	1	12	548
		152+32 'WB' - 168+69 'WB'	---	---	---	---	---	---	---	7	6	1	---	---	2	30	1,326
		168+69 'WB' - 174+44 'WB'	---	---	---	---	---	---	---	4	3	---	---	---	1	7	328
		174+44 'WB' - 185+95 'WB'	---	---	---	---	---	---	---	3	4	---	---	---	1	5	236
		MERITER WAY															
		10+00 'MW' - 10+62 'MW'	---	---	---	---	---	---	---	---	3	---	---	---	---	---	---
		SOUTH HIGH POINT ROAD															
		20+00 'HP' - 24+72 'HP'	---	271	543	---	---	---	---	1	3	---	---	---	---	14	630
		STRATTON WAY															
		30+00 'SW' - 31+50 'SW'	---	26	52	---	---	---	---	---	1	---	---	---	---	5	225
		MUIR FIELD ROAD															
		54+50 'CM' - 57+00 'CM'	---	---	---	---	2	---	---	4	2	2	---	---	---	6	264
		SILVERTON TRAIL															
		72+35 'TS' - 73+00 'TS'	---	---	---	---	---	---	---	3	2	1	---	---	---	1	63
		POND A															
		10+00 'PA' - 19+46 'PA'	---	---	---	---	---	---	817	---	---	---	---	10	---	---	---
		POND B															
		20+00 'PB' - 25+81 'PB'	---	---	---	---	---	---	395	---	---	---	---	7	---	---	---
		UNDISTRUBED	---	149	299	3	3,403	111	288	5	5	1	124	6	3	9	411
STAGE 2 TOTAL			---	746	1,493	13	17,014	600	1,500	56	57	6	620	24	13	102	4,524
	STAGE 3																
		CTH PD (WESTBOUND)															
		174+44 'WB' - 185+95 'WB'	---	---	---	---	---	---	---	---	---	---	---	---	---	1	22
		CTH PD (EASTBOUND)															
		110+63 'EB' - 133+59 'EB'	19	599	1,197	---	10,337	---	---	7	8	---	560	---	2	33	1,463
		133+59 'EB' - 138+08 'EB'	---	---	---	---	1,775	---	---	2	2	---	48	---	2	14	642
		138+08 'EB' - 142+52 'EB'	---	---	---	---	---	---	---	5	4	---	64	3	1	14	642
		142+52 'EB' - 152+32 'EB'	---	250	499	---	511	---	---	7	8	1	---	---	2	34	1,514
		152+32 'EB' - 168+69 'EB'	---	827	1,509	---	1,081	---	---	10	10	---	96	2	2	71	3,143
		168+69 'EB' - 174+44 'EB'	---	269	526	---	162	---	---	4	3	1	---	---	2	14	602
		174+44 'EB' - 185+95 'EB'	---	35	69	---	---	---	---	2	2	---	---	---	1	4	196
		SNOWY PARKWAY															
		41+00 'SP' - 41+94 'SP'	---	---	---	---	---	---	---	---	3	---	---	---	---	2	104
		COUNTRY GROVE DRIVE															
		52+16 'CM' - 54+30 'CM'	---	---	---	---	2	---	---	---	4	---	---	---	---	4	173
STAGE 3 SUBTOTAL			19	1,978	3,800	---	13,868	---	---	37	44	2	768	5	12	191	8,502

EROSION CONTROL (2)

CATEGORY	STAGE	STATION TO STATION	628.1104 EROSION BALES (EACH)	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)	628.1920 CLEANING SEDIMENT BASINS (CY)	628.2008 EROSION MAT URBAN CLASS I TYPE B (SY)	628.2027 EROSION MAT CLASS II TYPE C (SY)	628.2031 EROSION MAT CLASS III TYPE A (SY)	628.7005 INLET PROTECTION TYPE A (EACH)	628.7015 INLET PROTECTION TYPE C (EACH)	628.7020 INLET PROTECTION TYPE D (EACH)	628.7504 TEMPORARY DITCH CHECKS (LF)	628.7555 CULVERT PIPE CHECK TEMPORARY (EACH)	628.7560 TRACKING PADS (EACH)	631.0300 SOD WATER (MGAL)	631.1000 SOD LAWN (SY)
0010	STAGE 2 TOTAL		---	746	1,493	13	17,014	600	1,500	56	57	6	620	24	13	102	4,524
	STAGE 3 SUBTOTAL		19	1,978	3,800	---	13,868	---	---	37	44	2	768	5	12	191	8,502
	STAGE 3																
		TANGLEWOOD DRIVE															
		71+15 'TS' - 72+12 'TS'	---	---	---	---	3	---	---	---	2	---	---	---	---	2	105
		STONECREEK DRIVE															
		92+23 'SD' - 93+07 'SD'	---	---	---	---	---	---	---	---	1	---	---	---	---	2	75
		MAPLE GROVE DRIVE															
		20+24 'MD' - 21+35 'MD'	---	---	---	---	---	---	---	---	1	---	---	---	1	2	80
		22+00 'MD' - 24+61 'MD'	---	---	---	---	---	---	---	1	1	---	---	---	1	4	163
		UNDISTRUBED	5	475	946	0	3,616	---	---	4	5	0	212	1	3	20	892
	STAGE 3 TOTAL		24	2,453	4,747	0	17,486	---	---	42	54	2	980	6	17	220	9,817
	STAGE 4																
		CTH PD (WESTBOUND)															
		110+63 'WB' - 133+59 'WB'	---	---	---	---	---	---	---	2	2	---	---	---	---	---	---
		133+59 'WB' - 138+08 'WB'	---	---	---	---	---	---	---	---	---	---	---	---	---	4	203
		138+08 'WB' - 142+52 'WB'	---	---	---	---	---	---	---	---	---	---	---	---	---	13	570
		142+52 'WB' - 152+32 'WB'	---	---	---	---	---	---	---	---	---	---	---	---	---	2	71
		152+32 'WB' - 168+69 'WB'	---	---	---	---	---	---	---	4	4	---	---	---	---	3	118
		168+69 'WB' - 174+44 'WB'	---	---	---	---	---	---	---	2	1	---	---	---	---	9	411
		174+44 'WB' - 185+95 'WB'	---	---	---	---	---	---	---	1	1	---	---	---	---	15	683
		UNDISTRUBED	---	---	---	---	---	---	---	1	1	---	---	---	---	457	204
	STAGE 4 TOTAL		---	---	---	---	---	---	---	10	9	---	---	---	---	503	2,260
	PROJECT 5992-09-31 TOTALS		**24**	**3,200**	**6,240**	**13**	**34,500**	**600**	**1,500**	**108**	**120**	**8**	**1,600**	**30**	**30**	**825**	**16,600**

MARKERS CULVERT END

CATEGORY	STATION	OFFSET	633.5200 (EACH)
0010	CTH PD (WESTBOUND)		
	148+20 'WB'	57' LT	1
PROJECT 5992-09-31 TOTALS			**1**

PERMANENT SIGNING TYPE II (1)

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE W IN	X	H IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	SPV.0060.005 PRECAST SIGN POST BASE EACH	SPV.0060.006 SIGN POST BASE FOR CONCRETE INSTALLATION EACH	SPV.0090.003 SIGN POST LF	SPV.0090.004 REFLECTIVE SIGN POST LF	SIGN MOUNTED ON SAME POST AS	REMARKS
0010	1-01	R4-7	24	X	30	5.00	---	1	---	---	14	---	KEEP RIGHT
	1-02	R3-7-R	30	X	30	6.25	---	1	---	---	14	---	RIGHT LANE MUST TURN RIGHT
	1-03	R7-1D	18	X	24	3.00	---	1	---	---	14	1-04	NO PARKING ANY TIME (DOUBLE ARROW)
	1-04	R3-17	30	X	24	5.00	---	---	---	---	---	1-03	BIKE LANE
	1-05	R3-17	30	X	24	5.00	---	1	---	---	14	1-06	BIKE LANE
	1-06	R3-17B	30	X	12	2.50	---	---	---	---	---	1-05	ENDS
	2-01	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	2-02	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	2-03	R2-1	24	X	30	5.00	---	1	---	14	---	---	SPEED LIMIT 40 MPH
	2-04	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	2-05	R3-7-R	30	X	30	6.25	---	1	---	---	14	---	RIGHT LANE MUST TURN RIGHT
	2-06	R3-8-D	36	X	30	7.50	---	1	---	---	14	---	AHEAD ONLY, RIGHT ONLY
	3-01	R3-2	36	X	36	9.00	---	---	---	---	---	LP	NO LEFT TURN SYMBOL
	3-02	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	3-03	R6-2R	30	X	36	7.50	---	---	---	---	---	LP	ONE WAY RIGHT ARROW
	3-04	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	5-03	R2-1	30	X	36	7.50	---	1	---	14	---	---	SPEED LIMIT 40 MPH
	5-04	M1-5A	24	X	24	4.00	---	1	---	14	---	---	COUNTY MARKER (2-3 DIGITS)
	5-05	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	5-06	---	-	X	-	---	---	1	---	---	14	---	CITY OF MADISON - MADISON METRO BUS STOP STOP SIGN
	5-07	M1-94-H	102	X	15	10.63	---	2	---	---	28	---	S HIGH POINT RD
	5-08	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	5-09	R3-20-L	24	X	36	6.00	---	1	---	---	14	---	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW
	6-01	R1-1F	36	X	36	---	7.46	---	---	---	---	SIGNAL, 6-02	STOP SIGN (FOLDING)
	6-02	R3-4	36	X	36	9.00	---	---	---	---	---	SIGNAL, 6-01	NO U TURN SYMBOL
	6-03	M1-94-H	84	X	18	10.50	---	---	---	---	---	SIGNAL MONOTUBE	S HIGH POINT RD
	6-04	R1-1F	36	X	36	---	7.46	---	---	---	---	SIGNAL	STOP SIGN (FOLDING)
	6-05	R1-1F	36	X	36	---	7.46	---	---	---	---	SIGNAL, 6-11	STOP SIGN (FOLDING)
	6-06	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	6-07	R4-4	36	X	30	7.50	---	1	---	---	14	---	BEGIN RIGHT TURN LANE WITH DOWN LEFT ARROW - YIELD TO BIKES
	6-08	R3-8-T(MOD)	72	X	30	15.00	---	2	---	28	---	---	LEFT ONLY, AHEAD ONLY, BIKE LANE, RIGHT ONLY
	6-09	---	-	X	-	---	---	1	---	---	14	---	CITY OF MADISON - MADISON METRO BUS STOP STOP SIGN
	6-10	R7-1D	18	X	24	3.00	---	1	---	---	14	6-35	NO PARKING ANY TIME (DOUBLE ARROW)
	6-11	R4-7	24	X	30	5.00	---	---	---	---	---	SIGNAL, 6-05	KEEP RIGHT
	6-12	R4-7	24	X	30	5.00	---	---	---	---	---	SIGNAL, 6-13	KEEP RIGHT
	6-13	R10-15-L	-	X	-	---	---	---	---	---	---	SIGNAL, 6-12	LEFT TURNING VEHICLES YIELD TO PEDESTRIANS
	6-14	R1-1F	36	X	36	---	7.46	---	---	---	---	SIGNAL	STOP SIGN (FOLDING)
	6-15	R1-1F	36	X	36	---	7.46	---	---	---	---	SIGNAL, 6-16	STOP SIGN (FOLDING)
	6-16	R3-4	36	X	36	9.00	---	---	---	---	---	SIGNAL, 6-15	NO U TURN SYMBOL
	6-17	R2-1	24	X	30	5.00	---	1	---	14	---	---	SPEED LIMIT 35 MPH
	6-18	R3-7-L	30	X	30	6.25	---	1	---	14	---	---	LEFT LANE MUST TURN LEFT
	6-19	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	6-20	R3-20-L	24	X	36	6.00	---	1	---	---	14	---	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW
	6-21	R4-7	24	X	30	5.00	---	---	---	---	---	SIGNAL, 6-25	KEEP RIGHT
	6-22	M1-94-H	84	X	18	10.50	---	---	---	---	---	SIGNAL MONOTUBE	S HIGH POINT RD
	6-23	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	6-24	R1-1F	36	X	36	---	7.46	---	---	---	---	SIGNAL	STOP SIGN (FOLDING)
	6-25	R10-15-L	-	X	-	---	---	---	---	---	---	SIGNAL, 6-21	LEFT TURNING VEHICLES YIELD TO PEDESTRIANS
	6-26	R1-1F	36	X	36	---	7.46	---	---	---	---	SIGNAL	STOP SIGN (FOLDING)
	6-27	---	-	X	-	---	---	1	---	---	14	---	CITY OF MADISON - MADISON METRO BUS STOP STOP SIGN
	6-28	R2-1	24	X	30	5.00	---	1	---	14	---	---	SPEED LIMIT 40 MPH
	6-29	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	6-30	M1-5A	24	X	24	4.00	---	1	---	14	---	---	COUNTY MARKER (2-3 DIGITS)
	6-31	M1-94-H	102	X	15	10.63	---	2	---	---	28	---	S HIGH POINT RD
SUBTOTAL						239.50	52.22	37	---	126	392		

PERMANENT SIGNING TYPE II (2)

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE W IN	X	SIGN SIZE H IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	SPV.0060.005 PRECAST SIGN POST BASE EACH	SPV.0060.006 SIGN POST BASE FOR CONCRETE INSTALLATION EACH	SPV.0090.003 SIGN POST LF	SPV.0090.004 REFLECTIVE SIGN POST LF	SIGN MOUNTED ON SAME POST AS	REMARKS
0010	SUBTOTAL					239.50	52.22	37.00	---	126.00	392.00		
	6-32	R3-17	30	X	24	5.00	---	1	---	---	14	---	BIKE LANE
	6-33	R3-17	30	X	24	5.00	---	1	---	---	14	---	BIKE LANE
	6-34	R3-17	30	X	24	5.00	---	1	---	---	14	---	BIKE LANE
	6-35	R3-17	30	X	24	5.00	---	---	---	---	---	6-10	BIKE LANE
	7-01	R1-1	36	X	36	7.46	---	1	---	14	---	---	STOP SIGN
	7-02	R2-1	24	X	30	5.00	---	1	---	14	---	---	SPEED LIMIT 25 MPH
	7-03	R6-2R	24	X	30	5.00	---	1	---	---	14	---	ONE WAY RIGHT ARROW
	7-04	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	7-05	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	7-06	R4-7	24	X	30	5.00	---	---	---	---	---	LP	KEEP RIGHT
	7-07	R4-7	24	X	30	5.00	---	1	---	---	14	7-08	KEEP RIGHT
	7-08	R10-15-L	-	X	-	---	---	---	---	---	---	7-07	LEFT TURNING VEHICLES YIELD TO PEDESTRIANS
	7-09	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	7-10	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	7-11	R1-1	36	X	36	7.46	---	---	---	---	---	LP	STOP SIGN
	7-12	R3-17	30	X	24	5.00	---	1	---	---	14	---	BIKE LANE
	7-13	R3-17	30	X	24	5.00	---	1	---	---	14	---	BIKE LANE
	7-14	R3-17	30	X	24	5.00	---	1	---	---	14	---	BIKE LANE
	8-01	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	8-02	R3-20-L	24	X	36	6.00	---	1	---	---	14	---	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW
	8-03	R2-1	30	X	36	7.50	---	1	---	14	---	---	SPEED LIMIT 40 MPH
	8-04	M1-5A	24	X	24	4.00	---	1	---	14	---	---	COUNTY MARKER (2-3 DIGITS)
	8-05	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	8-06	R2-1	30	X	36	7.50	---	1	---	14	---	---	SPEED LIMIT 40 MPH
	8-07	M1-94	108	X	30	22.50	---	2	---	---	28	---	MUIR FIELD RD / COUNTRY GROVE DR
	8-08	R3-20-L	24	X	36	6.00	---	1	---	---	14	---	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW
	9-01	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	9-02	---	-	X	-	---	---	1	---	---	14	---	CITY OF MADISON - MADISON METRO BUS STOP STOP SIGN
	9-03	M1-94-H	108	X	36	27.00	---	---	---	---	---	SIGNAL MONOTUBE	COUNTRY GROVE DR / MUIR FIELD RD
	9-04	R1-1F	36	X	36	---	7.46	---	---	---	---	SIGNAL	STOP SIGN (FOLDING)
	9-05	R3-8-A	36	X	30	7.50	---	1	---	28	---	---	LEFT ONLY / AHEAD, RIGHT
	9-06	---	-	X	-	---	---	1	---	---	14	---	CITY OF MADISON - MADISON METRO BUS STOP STOP SIGN
	9-07	R10-15-L	-	X	-	---	---	---	---	---	---	SIGNAL, 9-08, 9-16	LEFT TURNING VEHICLES YIELD TO PEDESTRIANS
	9-08	R4-7	24	X	30	5.00	---	---	---	---	---	SIGNAL, 9-07, 9-16	KEEP RIGHT
	9-09	R4-7	24	X	30	5.00	---	---	---	---	---	SIGNAL, 9-11, 9-19	KEEP RIGHT
	9-10	R1-1F	36	X	36	---	7.46	---	---	---	---	SIGNAL	STOP SIGN (FOLDING)
	9-11	R1-1F	36	X	36	---	7.46	---	---	---	---	SIGNAL, 9-09, 9-19	STOP SIGN (FOLDING)
	9-12	---	-	X	-	---	---	1	---	---	14	---	CITY OF MADISON - MADISON METRO BUS STOP STOP SIGN
	9-13	R3-8A	36	X	30	7.50	---	1	---	28	---	---	LEFT ONLY / AHEAD, RIGHT
	9-14	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	9-15	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	9-16	R1-1F	36	X	36	---	7.46	---	---	---	---	SIGNAL, 9-07, 9-08	STOP SIGN (FOLDING)
	9-17	R1-1F	36	X	36	---	7.46	---	---	---	---	SIGNAL	STOP SIGN (FOLDING)
	9-18	R2-1	24	X	30	5.00	---	1	---	14	---	---	SPEED LIMIT 30 MPH
	9-19	R10-15-L	-	X	-	---	---	---	---	---	---	SIGNAL, 9-09, 9-11	LEFT TURNING VEHICLES YIELD TO PEDESTRIANS
	9-20	R1-1F	36	X	36	---	7.46	---	---	---	---	SIGNAL	STOP SIGN (FOLDING)
	9-21	M1-94-H	108	X	36	27.00	---	---	---	---	---	SIGNAL MONOTUBE	MUIR FIELD RD / COUNTRY GROVE DR
	9-22	---	-	X	-	---	---	1	---	---	14	---	CITY OF MADISON - MADISON METRO BUS STOP STOP SIGN
	9-23	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	9-24	M1-5A	24	X	24	4.00	---	1	---	14	---	---	COUNTY MARKER (2-3 DIGITS)
	9-25	R3-17	30	X	24	5.00	---	1	---	---	14	---	BIKE LANE
	9-26	R3-17	30	X	24	5.00	---	1	---	---	14	---	BIKE LANE
SUBTOTAL						490.92	96.98	74	---	280	784		

PERMANENT SIGNING TYPE II (3)

CATEGORY	SIGN #	SIGN CODE	SIGN SIZE W IN		SIGN SIZE H IN	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	SPV.0060.005 PRECAST SIGN POST BASE EACH	SPV.0060.006 SIGN POST BASE FOR CONCRETE INSTALLATION EACH	SPV.0090.003 SIGN POST LF	SPV.0090.004 REFLECTIVE SIGN POST LF	SIGN MOUNTED ON SAME POST AS	REMARKS
0010	SUBTOTAL					490.92	96.98	74	---	280	784		
	10-01	R3-20L	24	X	36	6.00	---	1	---	---	14	---	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW
	10-02	M1-94	108	X	30	22.50	---	2	---	---	28	---	COUNTRY GROVE DR / MUIR FIELD RD
	10-03	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	10-04	R2-1	30	X	36	7.50	---	1	---	14	---	---	SPEED LIMIT 40 MPH
	10-05	R3-2	36	X	36	9.00	---	1	---	---	14	---	NO LEFT TURN SYMBOL
	10-06	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	11-01	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	11-02	R2-1	30	X	36	7.50	---	1	---	14	---	---	SPEED LIMIT 40 MPH
	11-03	R2-1	30	X	36	7.50	---	1	---	14	---	---	SPEED LIMIT 40 MPH
	11-04	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	11-05	R3-20L	24	X	36	6.00	---	1	---	---	14	---	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW
	12-01	R1-1	36	X	36	7.46	---	1	---	14	---	---	STOP SIGN
	12-02	R4-7	24	X	30	5.00	---	1	---	---	14	12-06	KEEP RIGHT
	12-03	R4-7	24	X	30	5.00	---	---	---	---	---	LP, 12-08	KEEP RIGHT
	12-04	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	12-05	R3-20L	24	X	36	6.00	---	1	---	---	14	---	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW
	12-06	R10-15-L	-	X	-	---	---	---	---	---	---	12-02	LEFT TURNING VEHICLES YIELD TO PEDESTRIANS
	12-07	R1-1	36	X	36	7.46	---	---	---	---	---	LP, 12-03	STOP SIGN
	12-08	R10-15-L	-	X	-	---	---	---	---	---	---	LP	LEFT TURNING VEHICLES YIELD TO PEDESTRIANS
	12-09	---	-	X	-	---	---	1	---	---	14	---	CITY OF MADISON - MADISON METRO BUS STOP STOP SIGN
	12-10	R2-1	30	X	36	7.50	---	1	---	14	---	---	SPEED LIMIT 40 MPH
	12-11	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	12-12	R3-17	30	X	24	5.00	---	1	---	---	14	---	BIKE LANE
	12-13	R3-17	30	X	24	5.00	---	1	---	---	14	---	BIKE LANE
	13-01	R4-7	24	X	30	5.00	---	1	---	---	14	---	KEEP RIGHT
	13-02	R4-7	24	X	30	5.00	---	---	1	---	14	13-03	KEEP RIGHT
	13-03	R10-15-L	-	X	-	---	---	---	---	---	---	13-02	LEFT TURNING VEHICLES YIELD TO PEDESTRIANS
	13-04	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	13-05	R3-20L	24	X	36	6.00	---	1	---	---	14	---	BEGIN LEFT TURN LANE WITH DOWN RIGHT ARROW
	13-06	R1-1	36	X	36	7.46	---	1	---	14	---	---	STOP SIGN
	13-07	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	13-08	R3-17	30	X	24	5.00	---	1	---	---	14	---	BIKE LANE
	14-01	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	14-02	---	-	X	-	---	---	1	---	---	14	---	CITY OF MADISON - MADISON METRO BUS STOP STOP SIGN
	14-03	R2-1	30	X	36	7.50	---	1	---	14	---	---	SPEED LIMIT 40 MPH
	15-01	R7-1D	18	X	24	3.00	---	1	---	---	14	---	NO PARKING ANY TIME (DOUBLE ARROW)
	15-02	R3-8-Z(MOD)	54	X	30	11.25	---	2	---	28	---	---	LEFT ONLY, AHEAD ONLY, AHEAD/RIGHT ONLY
	15-03	R3-7L	30	X	30	6.25	---	1	---	14	---	---	LEFT LANE MUST TURN LEFT
	15-04	R4-4	36	X	30	7.50	---	1	---	---	14	---	BEGIN RIGHT TURN LANE WITH DOWN LEFT ARROW - YIELD TO BIKES
	15-05	R1-1F	36	X	36	---	7.46	---	---	---	---	SIGNAL	STOP SIGN (FOLDING)
PROJECT 5992-09-31 TOTALS						**696.30**	**104.44**	**109**	**1**	**420**	**1,148**		

REMOVING & MOVING SIGNS (1)

CATEGORY	SIGN #	SIGN CODE	638.2102 MOVING SIGN TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMOVING CONCRETE SIGN POST BASE (NOT BID ITEM INFORMATION ONLY)	SIGN MOUNTED ON SAME POST AS	REMARKS
0010	1R-01	R4-7	---	1	1	---	---	KEEP RIGHT
	2R-01	R4-7	---	1	1	---	---	KEEP RIGHT
	3M-01	I2-3	1	---	---	---	---	MUNICIPALITY SIGN-POP OR UNINC
	3M-02	R14-1	1	---	---	---	---	TRUCK ROUTE
	3M-03	---	1	---	---	---	---	ALTERNATE SIDE PARKING
	3R-01	W3-3	---	1	1	---	---	SIGNAL AHEAD
	5R-01	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	5R-02	W2-2	---	1	1	---	---	SIDE ROAD (90 DEGREES)
	5R-03	W3-3	---	1	1	---	---	SIGNAL AHEAD
	5R-04	W11-1	---	1	1	---	---	BICYCLE SYMBOL
	5R-05	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	6R-01	W2-1	---	1	1	---	---	CROSS ROAD
	6R-02	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	6R-03	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	6R-04	R2-1	---	1	1	---	---	SPEED LIMIT [__] MPH
	6R-05	R4-7	---	1	---	---	LP	KEEP RIGHT
	6R-06	R4-7	---	1	---	---	SIGNAL	KEEP RIGHT
	6R-07	R3-4	---	1	---	---	SIGNAL	NO U TURN SYMBOL
	6R-08	D11-1	---	1	1	---	---	BIKE ROUTE (SYMBOL)
	6R-09	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	6R-10	W11-1	---	1	1	---	---	BICYCLE SYMBOL
	6R-11	D11-1	---	1	1	---	---	BIKE ROUTE (SYMBOL)
	6R-12	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	6R-13	R5-3	---	1	---	---	SIGNAL	NO MOTOR VEHICLES
	6R-14	R2-1	---	1	1	---	---	SPEED LIMIT [__] MPH
	6R-15	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	6R-16	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	7R-01	R1-1	---	1	1	---	---	STOP SIGN
	7R-02	R2-1	---	1	1	---	---	SPEED LIMIT [__] MPH
	7R-03	R6-2R	---	1	1	---	---	ONE WAY RIGHT ARROW
	7R-04	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	7R-05	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	7R-06	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	7R-07	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	7R-08	R4-7	---	1	1	---	---	KEEP RIGHT
	7R-09	R1-1	---	1	---	---	LP	STOP SIGN
	8R-01	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	8R-02	R2-1	---	1	1	---	---	SPEED LIMIT [__] MPH
	8R-03	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	8R-04	R2-1	---	1	1	---	---	SPEED LIMIT [__] MPH
	9R-01	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	9R-02	R1-1	---	1	1	---	---	STOP SIGN
	9R-03	---	---	---	---	1	---	CITY OF MADISON - MADISON METRO BUS STOP STOP SIGN
	9R-04	---	---	---	---	1	---	CITY OF MADISON - MADISON METRO BUS STOP STOP SIGN
	9R-05	R2-1	---	1	1	---	---	SPEED LIMIT [__] MPH
	9R-06	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	9R-07	W11-2	---	1	1	---	---	PEDESTRIAN CROSSING SYMBOL
	9R-08	W11-2	---	1	1	---	---	PEDESTRIAN CROSSING SYMBOL
	9R-09	W11-2	---	1	1	---	---	PEDESTRIAN CROSSING SYMBOL
	9R-10	W11-2	---	1	1	---	---	PEDESTRIAN CROSSING SYMBOL
SUBTOTAL			3	45	40			

3

REMOVING & MOVING SIGNS (2)

CATEGORY	SIGN #	SIGN CODE	638.2102 MOVING SIGN TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMOVING CONCRETE SIGN POST BASE (NOT BID ITEM INFORMATION ONLY)	SIGN MOUNTED ON SAME POST AS	REMARKS
0010	SUBTOTAL		3	45	40			
	9R-11	R1-1	---	1	1	---	---	STOP SIGN
	9R-12	R2-1	---	1	1	---	---	SPEED LIMIT [__] MPH
	10R-01	W2-1	---	1	1	---	---	CROSS ROAD
	12R-01	R2-1	---	1	1	---	---	SPEED LIMIT [__] MPH
	12R-02	R1-1	---	1	1	---	---	STOP SIGN
	12R-03	W9-2L	---	1	1	---	---	LANE ENDS MERGE LEFT
	12R-04	R1-1	---	1	1	---	---	STOP SIGN
	12R-05	W6-1	---	1	1	---	---	DIVIDED HIGHWAY AHEAD SYMBOL
	12R-06	R2-1	---	1	1	---	---	SPEED LIMIT [__] MPH
	13R-01	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	13R-02	R4-7	---	1	---	---	LP	KEEP RIGHT
	13R-03	R1-1	---	1	1	---	---	STOP SIGN
	13R-04	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	14R-01	W6-2	---	1	1	---	---	DIVIDED HIGHWAY ENDS SYMBOL
	14R-02	W6-2	---	1	---	---	LP	DIVIDED HIGHWAY ENDS SYMBOL
	14R-03	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	15R-01	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	15R-02	R3-7L	---	1	1	---	---	LEFT LANE MUST TURN LEFT
	15R-03	R7-1D	---	1	1	---	---	NO PARKING ANY TIME (DOUBLE ARROW)
	15R-04	R1-1F	---	1	---	---	SIGNAL	STOP SIGN (FOLDING)
	15M-01	R3-17	1	---	---	---	---	BIKE LANE
	15M-02	M1-94-H	1	---	---	---	SIGNAL	CROSS ROAD NAME
PROJECT 5992-09-31 TOTALS			**5**	**65**	**57**			

TRAFFIC CONTROL

CATEGORY	STAGE	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED (LF)	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED (LF)	614.0905 CRASH CUSHION TEMPORARY (EACH)	643.0300 DRUMS (DAY)	643.0410 BARRICADES TYPE II (DAY)	643.0420 BARRICADES TYPE III (DAY)	643.0500 FLEXIBLE TUBULAR MARKER POSTS (EACH)	643.0600 FLEXIBLE TUBULAR MARKER BASES (EACH)	643.0705 WARNING LIGHTS TYPE A (DAY)	643.0715 WARNING LIGHTS TYPE C (DAY)	643.0800 ARROW BOARD (DAY)	643.0900 SIGNS (DAY)	643.1000 FIXED MESSAGE (SF)	643.1050 SIGNS PCMS (DAY)	643.2000 DETOUR PROJECT (EACH)	643.3000 DETOUR SIGNS (DAY)
0010	STAGE 1	42	42	---	5,375	336	182	36	36	364	540	56	1302	78	70	---	---
	STAGE 2	5,057	5,057	4	30,299	2360	5,360	340	340	10,783	4,740	335	7,641	78	350	---	---
	STAGE 3	---	1,400	2	32,701	2275	7,980	262	262	16,060	5,653	70	7,660	78	361	1	9,700
	STAGE 4	---	---	---	19,853	---	1,800	---	---	3,681	774	36	4,284	78	56	---	---
	UNDISTRIBUTED	---	---	---	8,871	529	1678	62	62	3,312	1191	68	2113	---	83	---	---
PROJECT 5992-09-31 TOTALS		**5,100**	**6,500**	**6**	**97,100**	**5,500**	**17,000**	**700**	**700**	**34,200**	**12,900**	**565**	**23,000**	**310**	**920**	**1**	**9,700**

TEMPORARY PEDESTRIAN ACCESS

CATEGORY	STAGE	644.1410.S TEMPORARY PEDESTRIAN SURFACE ASPHALT (SF)	644.1420.S TEMPORARY PEDESTRIAN SURFACE PLYWOOD (SF)	644.1430.S TEMPORARY PEDESTRIAN SURFACE PLATE (SF)	644.1601.S TEMPORARY CURB RAMP (EACH)	644.1616.S TEMPORARY PEDESTRIAN SAFETY FENCE (LF)
0010	STAGE 1	31	---	---	---	320
	STAGE 2	2,088	---	---	8	5,088
	STAGE 3	1,517	---	---	10	2,753
	STAGE 4	---	---	---	---	929
	UNDISTRIBUTED	364	100	100	2	909
PROJECT 5992-09-31 TOTALS		**4,000**	**100**	**100**	**20**	**10,000**

REMOVING PAVEMENT MARKINGS

CATEGORY	STAGE	STATION TO STATION	646.0600 REMOVING PAVEMENT MARKINGS (LF)	647.0955 REMOVING PAVEMENT MARKINGS ARROWS (EACH)	647.0965 REMOVING PAVEMENT MARKINGS WORDS (EACH)
0010	STAGE 1				
		CTH PD (WESTBOUND)			
		110+63 'WB' - 133+59 'WB'	215	---	---
		133+59 'WB' - 138+08 'WB'	48	---	---
		138+08 'WB' - 142+52 'WB'	57	---	---
		174+44 'WB' - 185+95 'WB'	883	---	---
		CTH PD (EASTBOUND)			
		110+63 'EB' - 133+59 'EB'	841	---	---
		142+52 'EB' - 152+32 'EB'	1,150	---	---
		168+69 'EB' - 174+44 'EB'	435	---	---
		174+44 'EB' - 185+95 'EB'	433	---	---
		SOUTH HIGH POINT ROAD			
		20+00 'HP' - 24+72 'HP'	1,698	---	---
	STAGE 1 TOTAL		5,760	---	---
	STAGE 2				
		CTH PD (WESTBOUND)			
		138+08 'WB' - 142+52 'WB'	1,214	---	---
		174+44 'WB' - 185+95 'WB'	2,400	---	---
		CTH PD (EASTBOUND)			
		110+63 'EB' - 133+59 'EB'	531	---	---
		168+69 'EB' - 174+44 'EB'	835	---	---
		174+44 'EB' - 185+95 'EB'	458	---	---
		SOUTH HIGH POINT ROAD			
		20+00 'HP' - 24+72 'HP'	868	---	---
	STAGE 2 TOTAL		6,306	---	---

CATEGORY	STAGE	STATION TO STATION	646.0600 REMOVING PAVEMENT MARKINGS (LF)	647.0955 REMOVING PAVEMENT MARKINGS ARROWS (EACH)	647.0965 REMOVING PAVEMENT MARKINGS WORDS (EACH)
0010	STAGE 3				
		CTH PD (WESTBOUND)			
		110+63 'WB' - 133+59 'WB'	412	1	1
		133+59 'WB' - 138+08 'WB'	24	---	---
		138+08 'WB' - 142+52 'WB'	625	---	---
		142+52 'WB' - 152+32 'WB'	423	---	---
		152+32 'WB' - 168+69 'WB'	172	---	---
		168+69 'WB' - 174+44 'WB'	---	---	---
		174+44 'WB' - 185+95 'WB'	1,105	---	---
		CTH PD (EASTBOUND)			
		110+63 'EB' - 133+59 'EB'	1,126	---	---
		133+59 'EB' - 138+08 'EB'	338	---	---
		168+69 'EB' - 174+44 'EB'	90	---	---
		174+44 'EB' - 185+95 'EB'	163	---	---
		SOUTH HIGH POINT ROAD			
		20+00 'HP' - 24+72 'HP'	1,065	1	---
		MAPLE GROVE DRIVE			
		20+24 'MD' - 21+35 'MD'	115	---	---
		22+00 'MD' - 24+61 'MD'	277	---	---
	STAGE 3 TOTAL		5,934	2	1
PROJECT 5992-09-31 TOTALS			**18,000**	**2**	**1**

PAVEMENT MARKING - SYMBOLS

CATEGORY	STATION TO STATION	647.0156 ARROWS EPOXY TYPE 1 (EACH)	647.0166 ARROWS EPOXY TYPE 2 (EACH)	647.0206 ARROWS BIKE LANE EPOXY (EACH)	647.0306 SYMBOLS BIKE LANE EPOXY (EACH)	647.0356 WORDS EPOXY (EACH)
0010						
	CTH PD (WESTBOUND)					
	110+63 'WB' - 133+59 'WB'	---	---	1	1	---
	133+59 'WB' - 138+08 'WB'	---	2	1	1	1
	138+08 'WB' - 142+52 'WB'	---	---	1	1	---
	142+52 'WB' - 152+32 'WB'	---	2	1	1	1
	152+32 'WB' - 168+69 'WB'	---	2	1	1	1
	168+69 'WB' - 174+44 'WB'	---	2	1	1	1
	174+44 'WB' - 185+95 'WB'	---	2	1	1	1
	CTH PD (EASTBOUND)					
	105+00 'EB' - 110+63 'EB'	---	1	---	---	1
	110+63 'EB' - 133+59 'EB'	---	3	1	1	2
	133+59 'EB' - 138+08 'EB'	---	---	1	1	---
	138+08 'EB' - 142+52 'EB'	---	---	1	1	---
	142+52 'EB' - 152+32 'EB'	---	2	1	1	1
	152+32 'EB' - 168+69 'EB'	---	2	1	1	1
	168+69 'EB' - 174+44 'EB'	---	---	1	1	---
	174+44 'EB' - 185+95 'EB'	---	---	1	1	---
	SOUTH HIGH POINT ROAD					
	20+00 'HP' - 24+72 'HP'	2	4	1	1	3
	MUIR FIELD ROAD					
	54+50 'CM' - 57+00 'CM'	---	1	---	---	1
	COUNTRY GROVE DRIVE					
	52+16 'CM' - 54+30 'CM'	---	1	---	---	1
	MAPLE GROVE DRIVE					
	20+24 'MD' - 21+35 'MD'	---	---	1	1	---
	22+00 'MD' - 24+61 'MD'	---	1	---	---	1
PROJECT 5992-09-31 TOTALS		**2**	**25**	**16**	**16**	**16**

TEMPORARY PAVEMENT MARKING

		649.0400		649.0402				647.0763	649.0801	649.0802		649.1100	649.1802		649.2002	649.2100
		REMOVABLE TAPE 4-INCH		PAINT 4-INCH				CROSSWALK PAINT	REMOVABLE TAPE 8-INCH	PAINT 8-INCH		STOP LINE	ARROWS			TEMPORARY RAISED PAVEMENT MARKING
		WHITE	YELLOW	WHITE	DOUBLE YELLOW		YELLOW			WHITE			TYPE 2	TYPE 3	WORDS	
		SOLID	SOLID	SOLID	SOLID	3' SEG, 9' GAP	SOLID	6-INCH	WHITE	3' SEG, 9' GAP	SOLID	18-INCH	PAINT		PAINT	TYPE I
CATEGORY	STAGE	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(EACH)	(EACH)	(EACH)	(EACH)
0010	STAGE 1	756	---	---	898	---	5,929	---	---	---	721	---	---	---	---	---
	STAGE 2	15,018	326	---	11,105	---	1,443	---	270	---	1,159	224	4	---	4	---
	STAGE 3	---	---	11,042	6602	215	3,326	545	---	134	1,219	246	6	1	6	---
	STAGE 4	---	---	462	---	---	13,737	1,205	---	---	1,198	310	14	---	14	6
PROJECT 5992-09-31 TOTALS		15,774	326	11,504	18,605	215	24,435	**1,750**	**270**	134	4,297	**780**	24	1	**24**	**6**
		16,100		**54,760**						**4,430**			**25**			

PAVEMENT MARKING - LINES

CATEGORY	STATION TO STATION	646.0106 EPOXY 4-INCH YELLOW SOLID (LF)	646.0106 EPOXY 4-INCH YELLOW 3' SEG, 9' GAP (LF)	646.0106 EPOXY 4-INCH WHITE 12.5 SEG, 37.5 GAP (LF)	646.0106 EPOXY 4-INCH WHITE 3' SEG, 9' GAP (LF)	646.0116 EPOXY 6-INCH WHITE (LF)	646.0126 EPOXY 8-INCH WHITE SOLID (LF)	646.0126 EPOXY 8-INCH WHITE 3' SEG, 9' GAP (LF)	647.0456 CURB EPOXY (LF)	647.0576 STOP LINE EPOXY 24-INCH (LF)	647.0606 ISLAND NOSE EPOXY (EACH)	647.0726 DIAGONAL EPOXY 12-INCH (LF)	647.0766 CROSSWALK EPOXY 6-INCH (LF)	647.0776 CROSSWALK EPOXY 12-INCH (LF)
0010														
	CTH PD (WESTBOUND)													
	105+00 'WB' - 110+63 'WB'	1,000	---	---	---	---	---	---	---	---	---	485	---	---
	110+63 'WB' - 133+59 'WB'	---	829	335	59	2,107	100	---	22	---	2	---	---	71
	133+59 'WB' - 138+08 'WB'	---	---	92	---	327	187	---	5	38	1	---	---	130
	138+08 'WB' - 142+52 'WB'	---	---	108	---	390	---	---	38	---	1	---	---	113
	142+52 'WB' - 152+32 'WB'	---	---	226	---	903	187	---	28	---	2	---	---	131
	152+32 'WB' - 168+69 'WB'	---	---	377	---	1,510	382	---	31	38	4	---	---	132
	168+69 'WB' - 174+44 'WB'	---	---	128	---	513	187	---	46	---	2	---	---	131
	174+44 'WB' - 185+95 'WB'	---	---	271	---	1,086	187	---	12	---	1	---	---	149
	CTH PD (EASTBOUND)													
	105+00 'EB' - 110+63 'EB'	990	---	---	---	414	117	---	---	---	---	---	---	---
	110+63 'EB' - 133+59 'EB'	---	63	529	---	2,275	362	---	76	38	---	---	---	76
	133+59 'EB' - 138+08 'EB'	---	111	95	---	438	---	---	18	---	---	---	---	108
	138+08 'EB' - 142+52 'EB'	---	105	108	---	400	---	---	5	---	---	---	---	112
	142+52 'EB' - 152+32 'EB'	---	231	225	---	864	237	---	8	38	---	---	---	131
	152+32 'EB' - 168+69 'EB'	---	388	378	---	1,514	188	---	37	---	---	---	---	134
	168+69 'EB' - 174+44 'EB'	---	130	129	---	470	---	---	20	---	---	---	---	109
	174+44 'EB' - 185+95 'EB'	---	266	270	---	1,037	192	---	5	41	---	---	---	153
	SOUTH HIGH POINT ROAD													
	20+00 'HP' - 24+72 'HP'	---	---	194	22	718	520	24	20	40	2	---	151	---
	STRATTON WAY													
	30+00 'SW' - 31+50 'SW'	---	---	---	---	---	---	---	---	17	---	---	84	---
	SNOWY PARKWAY													
	41+00 'SP' - 41+94 'SP'	---	---	---	---	---	---	---	---	14	---	---	67	---
	MUIR FIELD ROAD													
	54+50 'CM' - 57+00 'CM'	455	---	---	---	---	125	---	---	35	---	---	136	---
	COUNTRY GROVE DRIVE													
	52+16 'CM' - 54+30 'CM'	359	---	---	---	---	100	---	---	26	---	---	100	
	SILVERTON TRAIL													
	72+35 'TS' - 73+00 'TS'	---	---	---	---	---	---	---	---	19	---	---	94	---
	TANGLEWOOD DRIVE													
	71+15 'TS' - 72+12 'TS'	---	---	---	---	---	---	---	---	16	---	---	85	---
	STONECREEK DRIVE													
	92+23 'SD' - 93+07 'SD'	---	---	---	---	---	---	---	---	16	---	---	74	---
	MAPLE GROVE DRIVE													
	20+24 'MD' - 21+35 'MD'	---	---	89	---	355	---	---	---	---	---	---	72	---
	22+00 'MD' - 24+61 'MD'	298	---	40	---	181	203	---	---	43	---	---	161	---
PROJECT 5992-09-31 TOTALS		3,102	2,123	3,594	81	**15,500**	3,276	24	**370**	**420**	**15**	**485**	**1,025**	**1,680**
		5,225		3,675			**3,300**							
		8,900												

SAWING

CATEGORY	STAGE	STATION TO STATION	690.0150 ASPHALT (LF)	690.0250 CONCRETE (LF)
0010	STAGE 1			
		CTH PD (WESTBOUND)		
		110+63 'WB' - 133+59 'WB'	3,167	---
		133+59 'WB' - 138+08 'WB'	1,083	---
		138+08 'WB' - 142+52 'WB'	806	---
		142+52 'WB' - 152+32 'WB'	305	---
		174+44 'WB' - 185+95 'WB'	579	---
		SOUTH HIGH POINT ROAD		
		20+00 'HP' - 24+72 'HP'	311	---
	STAGE 1 TOTAL		6,251	---
	STAGE 2			
		CTH PD (WESTBOUND)		
		110+63 'WB' - 133+59 'WB'	140	---
		138+08 'WB' - 142+52 'WB'	48	15
		142+52 'WB' - 152+32 'WB'	---	15
		152+32 'WB' - 168+69 'WB'	79	20
		174+44 'WB' - 185+95 'WB'	241	5
		SOUTH HIGH POINT ROAD		
		20+00 'HP' - 24+72 'HP'	363	8
		STRATTON WAY		
		30+00 'SW' - 31+50 'SW'	37	10
		MUIR FIELD ROAD		
		54+50 'CM' - 57+00 'CM'	106	10
		SILVERTON TRAIL		
		72+35 'TS' - 73+00 'TS'	37	10
	STAGE 2 TOTAL		1,050	93
	STAGE 3			
		CTH PD (WESTBOUND)		
		110+63 'WB' - 133+59 'WB'	173	---
		168+69 'WB' - 174+44 'WB'	17	---
		174+44 'WB' - 185+95 'WB'	494	11
		SNOWY PARKWAY		
		41+00 'SP' - 41+94 'SP'	33	10
		COUNTRY GROVE DRIVE		
		52+16 'CM' - 54+30 'CM'	78	10
		TANGLEWOOD DRIVE		
		71+15 'TS' - 72+12 'TS'	37	10
		STONECREEK DRIVE		
		92+23 'SD' - 93+07 'SD'	37	11
		MAPLE GROVE DRIVE		
		20+24 'MD' - 21+35 'MD'	171	5
		22+00 'MD' - 24+61 'MD'	357	10
	STAGE 3 TOTAL		1,398	68
PROJECT 5992-09-31 TOTALS			**8,700**	**160**

CONDUIT LIGHTING

			652.0235 [a]	652.0225 [a]	652.0215	652.0335 [a]	652.0325 [a]	655.0620	655.0630	
			CONDUIT RIGID NONMETALLIC SCHEDULE 40			CONDUIT RIGID NONMETALLIC SCHEDULE 80		ELECTRICAL WIRE LIGHTING		
CATEGORY	FROM	TO	3-INCH (LF)	2-INCH (LF)	1 1/4-INCH (LF)	3-INCH (LF)	2-INCH (LF)	8 AWG (LF)	4 AWG (LF)	COMMENT
0030	HH2	LC1	45	---	---	---	---	55	165	1-3"
	HH1	HH2	---	---	---	40	---	50	150	1-3"
	HH2	EXISTING	---	---	---	40	---	---	---	1-3"
	HH2	SL9602	---	81	---	---	---	91	273	1-2"
	HH2	SL9603	---	270	---	---	---	280	840	1-2"
	SL9603	SL9604	---	203	---	---	---	213	639	1-2"
	SL9604	SL9605	---	196	---	---	---	206	618	1-2"
	SL9605	SL9606	---	194	---	---	---	204	612	1-2"
	SL9606	SL9607	---	98	---	---	---	108	324	1-2"
	SL9607	SL9608	---	104	---	---	---	114	342	1-2"
	SL9608	HH6	---	143	---	---	---	153	459	1-2"
	HH6	SL9609	---	49	---	---	---	59	177	1-2"
	HH6	HH66	---	---	---	---	70	80	240	1-2"
	HH66	P740	---	75	---	---	---	85	255	1-2"
	P740	P741	---	86	---	---	---	96	288	1-2"
	P741	P742	---	125	---	---	---	135	405	1-2"
	LC2	HH15	9	---	---	---	---	19	57	1-3"
	HH15	HH12	---	48	---	---	---	58	174	1-2"
	HH12	HH11	---	---	---	---	40	50	150	1-2"
	HH11	SL9613	---	174	---	---	---	184	552	1-2"
	SL9613	SL9612	---	180	---	---	---	190	570	1-2"
	SL9612	SL9611	---	181	---	---	---	191	573	1-2"
	SL9611	SL9610	---	184	---	---	---	194	582	1-2"
	SL9610	SL9609	---	182	---	---	---	192	576	1-2"
	HH6	HH67	---	---	---	---	65	75	225	1-2"
	HH67	P743	---	78	---	---	--	88	264	1-2"
	P743	P744	---	152	---	---	---	162	486	1-2"
	P744	P745	---	163	---	---	---	173	519	1-2"
	P745	P746	---	160	---	---	---	170	510	1-2"
	P746	P747	---	157	---	---	---	167	501	1-2"
	LC2	HH16	---	---	---	---	107	127	381	2-2"
	HH16	SL6531	---	---	---	---	---	18	54	
	HH16	SL6532	---	168	---	---	---	178	534	1-2"
	SL6532	SL6533	---	193	---	---	---	203	609	1-2"
	SL6533	END	---	---	40	---	---	50	150	1-2"
	HH16	HH19	---	---	---	---	40	50	150	1-2"
	HH19	HH20	---	70	---	---	---	80	240	1-2"
	HH20	HH21	---	---	---	---	51	61	183	1-2"
	HH21	SL9615	---	---	---	---	---	21	63	
	HH21	HH11	---	---	---	---	157	167	501	1-2"
	HH21	SL9616	---	160	---	---	---	170	510	1-2"
	SL9616	SL9617	---	164	---	---	---	174	522	1-2"
	SL9617	SL9618	---	155	---	---	---	165	495	1-2"
	SL9618	SL9619	---	154	---	---	---	164	492	1-2"
	SL9619	SL9620	---	157	---	---	---	167	501	1-2"
	SL9620	HH27	---	---	---	---	86	96	288	1-2"
	HH27	HH28	---	---	---	---	35	45	135	1-2"
	HH28	SL9621	---	45	---	---	---	55	165	1-2"
	LC3	HH41	11	---	---	---	---	22	66	1-3"
	HH41	HH40	---	67	---	---	---	77	231	1-2"
		SUBTOTAL	65	4,616	40	80	651	5,932	17,796	

[a] ADDITIONAL QUANTITIES LISTED IN CONDUIT SIGNALS

CONDUIT LIGHTING (CONT.)

			652.0235 [a]	652.0225 [a]	652.0215	652.0335 [a]	652.0325 [a]	655.0620	655.0630	
			CONDUIT RIGID NONMETALLIC SCHEDULE 40			CONDUIT RIGID NONMETALLIC SCHEDULE 80		ELECTRICAL WIRE LIGHTING		
CATEGORY	FROM	TO	3-INCH (LF)	2-INCH (LF)	1 1/4-INCH (LF)	3-INCH (LF)	2-INCH (LF)	8 AWG (LF)	4 AWG (LF)	COMMENT
		SUBTOTAL	65	4,616	40	80	651	5,932	17,796	
0030	HH40	SL9629	---	---	---	---	---	22	66	
	HH41	HH42	---	---	---	---	40	50	150	1-2"
	HH42	SL9630	---	8	---	---	---	18	54	1-2"
	HH42	HH33	---	---	---	---	163	173	519	1-2"
	HH33	SL9627	---	7	---	---	---	17	51	1-2"
	HH33	HH34	---	---	---	---	40	50	150	1-2"
	HH34	HH35	---	45	---	---	---	55	165	1-2"
	HH35	SL9628	---	---	---	---	---	23	69	
	HH33	SL9626	---	145	---	---	---	155	465	1-2"
	SL9626	SL9625	---	166	---	---	---	176	528	1-2"
	SL9625	SL9624	---	170	---	---	---	180	540	1-2"
	SL9624	SL9623	---	168	---	---	---	178	534	1-2"
	SL9623	SL9622	---	150	---	---	---	160	480	1-2"
	HH42	SL9631	---	145	---	---	---	155	465	1-2"
	SL9631	SL9632	---	160	---	---	---	170	510	1-2"
	SL9632	SL9633	---	170	---	---	---	180	540	1-2"
	SL9633	SL9634	---	130	---	---	30	170	510	1-2"
	SL9634	SL9635	---	180	---	---	---	190	570	1-2"
	SL9635	SL9636	---	155	---	---	---	165	495	1-2"
	SL9636	SL9637	---	177	---	---	---	189	567	1-2"
	SL9637	SL9638	---	176	---	---	---	186	558	1-2"
	SL9638	SL9639	---	178	---	---	---	188	564	1-2"
	SL9639	SL9641	---	40	---	---	100	150	450	1-2"
	SL9641	HH57	---	12	---	---	---	22	66	1-2"
	HH57	HH56	---	---	---	---	35	45	135	1-2"
	HH56	HH55	---	67	---	---	---	77	231	1-2"
	HH55	SL9640	---	7	---	---	---	17	51	1-2"
	HH57	SL9642	---	141	---	---	---	151	453	1-2"
	SL9642	SL9643	---	159	---	---	---	169	507	1-2"
	SL9643	SL9644	---	163	---	---	---	173	519	1-2"
	SL9644	SL9645	---	134	---	---	50	144	432	1-2"
	SL9645	SL8320	---	198	---	---	---	208	624	1-2"
	HH64	EXISTING	---	---	---	8	---	---	---	1-3"
PROJECT 5992-09-31 TOTAL			**65**	**7,867**	**40**	**88**	**1,109**	**9,938**	**29,814**	

CONDUIT SIGNALS

CATEGORY	FROM	TO	652.0235 [b] CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH (LF)	652.0225 [b] CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (LF)	652.0335 [b] CONDUIT RIGID NONMETALLIC SCHEDULE 80 3-INCH (LF)	652.0325 [b] CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH (LF)	COMMENT
0020	HH 1	HH 2	---	---	36	---	1 - 3"
	HH 2	HH 3	---	---	45	---	1 - 3"
	HH 2	HH 4	---	1,086	---	---	2 - 2"
	HH 4	HH 5	---	1,064	---	---	2 - 2"
	HH 5	HH 7	---	1,054	---	---	2 - 2"
	HH 7	HH 11	---	1,032	---	---	2 - 2"
	HH 8	HH 9	---	189	---	---	1 - 2"
	HH 9	HH 10	---	86	---	---	1 - 2"
	HH 10	HH 11	---	25	---	---	1 - 2"
	HH 11	SL 9614	4	---	---	---	1 - 3"
	HH 11	HH 21	---	---	---	310	2 - 2"
	HH 11	HH 12	---	---	72	---	2 - 3"
	HH 12	TS 8	7	---	---	---	1 - 3"
	HH 12	TS 9	7	---	---	---	1 - 3"
	HH 12	HH 15	144	---	---	---	3 - 3"
	HH 15	TC 1	17	---	---	---	4 - 3"
	TC 1	LC 2	6	---	---	---	2 - 3"
	TC 1	TS 1	14	---	---	---	1 - 3"
	HH 15	HH 16	---	---	92	---	2 - 3"
	HH 16	SL 6531	9	---	---	---	1 - 3"
	HH 16	HH 17	---	21	---	---	1 - 2"
	HH 17	HH 18	---	117	---	---	1 - 2"
	HH 16	END	---	800	---	---	2 - 2"
	HH 16	HH 19	---	---	66	---	2 - 3"
	HH 19	TS 2	---	8	---	---	1 - 2"
	HH 19	HH 20	140	---	---	---	2 - 3"
	HH 20	TS 3	---	6	---	---	1 - 2"
	HH 20	HH 21	---	---	88	---	2 - 3"
	HH 11	HH 13	---	---	88	---	2 - 3"
	HH 13	TS 7	---	3	---	---	1 - 2"
	HH 13	TS 6	35	---	---	---	1 - 3"
	HH 13	HH 14	---	---	85	---	1 - 3"
	HH 14	TS 5	---	22	---	---	1 - 2"
	HH 14	HH 22	---	---	64	---	1 - 3"
	HH 22	TS 4	5	---	---	---	1 - 3"
	HH 22	HH 21	---	---	66	---	2 - 3"
	HH 21	SL 9615	6	---	---	---	1 - 3"
	HH 21	HH 23	---	25	---	---	1 - 2"
	HH 21	HH 26	---	858	---	---	2 - 2"
	HH 20	HH 24	---	110	---	---	1 - 2"
	HH 24	HH 25	---	182	---	---	1 - 2"
	HH 26	HH 27	---	756	---	100	2 - 2"
	HH 27	HH 29	---	852	---	---	2 - 2"
	HH 29	HH 33	---	856	---	---	2 - 2"
	HH 30	HH 31	---	189	---	---	1 - 2"
	HH 31	HH 32	---	88	---	---	1 - 2"
	HH 32	HH 33	---	25	---	---	1 - 2"
	HH 33	HH 34	---	---	66	---	2 - 3"
	HH 34	TS 13	4	---	---	---	1 - 3"
	HH 34	HH 35	88	---	---	---	2 - 3"
	HH 35	SL 9628	7	---	---	---	1 - 3"
	HH 35	HH 36	---	45	---	---	1 - 2"
	HH 35	HH 43	---	---	116	---	2-3"
	HH 43	TS 14	---	8	---	---	1 - 2"
	HH 43	HH 44	128	---	---	---	2 - 3"
	HH 44	TS 15	---	5	---	---	1 - 2"
	HH 44	HH 42	---	---	88	---	2 - 3"
	HH 33	HH 42	---	---	---	320	2 - 2"
	HH 33	HH 37	---	---	88	---	2 - 3"
	HH 37	TS 12	---	4	---	---	1 - 2"
	SUBTOTAL		621	9,516	1060	730	

[b] ADDITIONAL QUANTITIES LISTED IN CONDUIT LIGHTING

CONDUIT SIGNALS (CONT.)

CATEGORY	FROM	TO	652.0235 [b] CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH (LF)	652.0225 [b] CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (LF)	652.0335 [b] CONDUIT RIGID NONMETALLIC SCHEDULE 80 3-INCH (LF)	652.0325 [b] CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH (LF)	COMMENT
		SUBTOTAL	621	9,516	1,060	730	
0020	HH 37	HH 38	148	---	---	---	2 - 3"
	HH 38	TS 11	---	8	---	---	1 - 2"
	HH 38	HH 40	---	---	94	---	2 - 3"
	HH 40	HH 39	---	47	---	---	1 - 2"
	HH 40	SL 9629	5	---	---	---	1 - 3"
	HH 40	HH 41	132	---	---	---	2 - 3"
	HH 41	TS 10	---	6	---	---	1 - 2"
	HH 41	TC 2	24	---	---	---	4 - 3"
	HH 41	HH 42	---	---	66	---	2 - 3"
	HH 42	SL 9630	6	---	---	---	1 - 3"
	HH 42	HH 45	---	26	---	---	1 - 2"
	HH 45	HH 46	---	87	---	---	1 - 2"
	HH 46	HH 47	---	199	---	---	1 - 2"
	HH 42	HH 48	---	980	---	---	2 - 2"
	HH 48	HH 49	---	942	---	64	2 - 2"
	HH 49	HH 50	---	992	---	---	2 - 2"
	HH 50	HH 51	---	---	74	---	2 - 3"
	HH 51	HH 52	94	---	---	---	2 - 3"
	HH 52	HH 58	---	---	86	---	2 - 3"
	HH 58	HH 59	89	---	---	---	2 - 3"
	HH 57	HH 59	---	---	96	---	2 - 3"
	HH 50	HH 57	---	---	---	258	2 - 2"
	HH 50	HH 53	---	---	86	---	2 - 3"
	HH 53	HH 54	98	---	---	---	2 - 3"
	HH 54	HH 55	---	---	76	---	2 - 3"
	HH 55	HH 56	132	---	---	---	2 - 3"
	HH 56	HH 57	---	---	62	---	2 - 3"
	HH 57	HH 60	---	878	---	---	2 - 2"
	HH 60	HH 61	---	676	---	100	2 - 2"
	HH64	EXISTING	7	---	---	---	1 - 3"
	HH64	EXISTING	8	---	---	---	1 - 3"
	TS 18	EXISTING	---	9	---	---	1 - 2"
	TS 19	EXISTING	---	8	---	---	1 - 2"
PROJECT 5992-09-31 TOTAL			**1,364**	**14,374**	**1,700**	**1,152**	

STREET LIGHTING

CATEGORY	STRUCTURE	STATION	OFFSET	SPV.0060.256 CONCRETE BASES TYPE LB-2 (EACH)	SPV.0060.257 CONCRETE BASES TYPE LB-3 (EACH)	SPV.0060.259 CONCRETE BASES TYPE M (EACH)	SPV.0060.263 POLES ALUMINUM 20-FT STREET LIGHT (EACH)	SPV.0060.264 POLES 30-FT 11 GAUGE (EACH)	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE (EACH)	SPV.0060.266 TRANSFORMER BASES 16-INCH STEEL (EACH)	SPV.0060.267 LED LUMINAIRE AND MOUNTING BRACKET TYPE 1 (EACH)	SPV.0060.268 LED LUMINAIRE AND MOUNTING BRACKET TYPE 2 (EACH)	SPV.0060.269 LED LUMINAIRE AND MOUNTING BRACKET TYPE 3 (EACH)	SPV.0090.250 ELECTRICAL WIRE LIGHTING 14-3 UF GROUNDED (LF)	SPV.0060.013 ROCK EXCAVATION FOR CONCRETE BASES (EACH)
0030	LC 1	111+82.9 "WB"	32.7' LT	---	---	1	---	---	---	---	---	---	---	---	---
	SL 9602	112+42.3 "EB"	13.6' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9603	114+32.6 "EB"	10.5' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9604	116+27.7 "EB"	6.1' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9605	118+17.9 "EB"	4' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9606	120+07 "EB"	4' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9607	121+00 "EB"	4' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9608	122+00 "EB"	4' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9609	123+92 "EB"	4.7' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9610	125+73 "EB"	7.8' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9611	127+54.3 "EB"	9.5' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9612	129+32.3 "EB"	15' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9613	131+11.3 "EB"	15' LT	---	1	---	---	1	1	---	---	---	2	70	---
	SL 9614	132+89.8 "EB"	15' LT	---	1	---	---	1	---	1	---	---	2	70	---
	LC 2	20+78 "HP"	59.1' LT	---	---	1	---	---	---	---	---	---	---	---	---
	SL 6531	20+59.3 "HP"	5.6' LT	---	1	---	---	1	---	1	---	2	---	70	---
	SL 9615	134+31.3 "EB"	4' LT	---	1	---	---	1	---	1	---	---	2	70	---
	SL 9616	135+96.8 "EB"	4' LT	---	1	---	---	1	1	---	---	---	2	70	---
	SL 9617	137+59.4 "EB"	8.4' LT	---	1	---	---	1	1	---	---	---	2	70	---
	SL 9618	139+10.4 "EB"	7.5' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9619	140+61.2 "EB"	8.5' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9620	142+14.5 "EB"	9.2' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9621	41+36.6 "SP"	21.5' RT	---	1	---	---	1	1	---	1	---	---	35	---
	SL 9622	143+64 "EB"	4.1' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9623	145+12.8 "EB"	5.2' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9624	146+79 "EB"	9.5' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9625	148+44 "EB"	11' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9626	150+09.4 "EB"	15' LT	---	1	---	---	1	1	---	---	---	2	70	---
	SL 9627	151+60 "EB"	14.9' LT	---	1	---	---	1	---	1	---	---	2	70	---
	SL 9628	151+84.6 "WB"	43.4' LT	---	1	---	---	1	---	1	---	1	---	35	---
	SL 9629	53+75.3 "CM"	33.6' RT	---	1	---	---	1	---	1	---	1	---	35	---
	SL 9630	153+04.8 "EB"	4.2' LT	---	1	---	---	1	---	1	---	---	2	70	---
	LC 3	153+20 "EB"	39.7' RT	---	---	1	---	---	---	---	---	---	---	---	---
	SL 9631	154+56 "EB"	4' LT	---	1	---	---	1	1	---	---	---	2	70	---
	SL 9632	156+14 "EB"	7.6' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9633	157+81.1 "EB"	9.5' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9634	159+41 "EB"	8.7' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9635	161+19 "EB"	6' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9636	162+74 "EB"	6' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9637	164+50 "EB"	6.8' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9638	166+25 "EB"	15.3' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9639	167+82.2 "EB"	17' LT	---	1	---	---	1	1	---	---	---	2	70	---
	SL 9640	71+61.9 "TD"	23.6' RT	---	1	---	---	1	---	1	1	---	---	35	---
	SL 9641	169+26.1 "EB"	6.9' LT	---	1	---	---	1	---	1	---	---	2	70	---
	SL 9642	170+78.2 "EB"	5' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9643	172+34.9 "EB"	9.5' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 9644	173+93 "EB"	9.6' LT	---	1	---	---	1	---	1	---	2	---	70	---
	SL 9645	175+80 "EB"	4.5' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 8320	177+76.1 "EB"	10.1' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 8321	179+60.9 "EB"	10.7' LT	---	---	---	---	---	---	---	---	2	---	---	---
	SL 8322	181+50 "EB"	10.7' LT	---	---	---	---	---	---	---	---	2	---	---	---
	SL 8323	183+40 "EB"	16.8' LT	---	---	---	---	---	---	---	---	2	---	---	---
	SL 8324	185+31 "EB"	15.8' LT	---	---	---	---	---	---	---	---	2	---	---	---
	LC 4	185+03.8 "EB"	38.2' RT	---	---	1	---	---	---	---	---	---	---	---	---
	SL 8325	22+25.7 "MD"	52.4" LT	---	1	---	---	1	---	1	---	1	---	35	---
	SL 6532	22+31.5 "HP"	4.8' LT	---	1	---	---	1	1	---	---	2	---	70	---
	SL 6533	24+24.5 "HP"	5.1' LT	---	1	---	---	1	1	---	---	2	---	70	---
	P 740	211+98.7 "AT"	18.8' RT	1	---	---	1	---	---	---	1	---	---	20	---
	P 741	209+46.3 "AT"	10.4' LT	1	---	---	1	---	---	---	1	---	---	20	---
	P 742	210+55.6 "AT"	9' LT	1	---	---	1	---	---	---	1	---	---	20	---
	P 743	207+08.8 "AT"	9' LT	1	---	---	1	---	---	---	1	---	---	20	---
	P 744	205+63 "AT"	9' LT	1	---	---	1	---	---	---	1	---	---	20	---
	P 745	204+06.6 "AT"	9' LT	1	---	---	1	---	---	---	1	---	---	20	---
	P 746	202+49.2 "AT"	9' LT	1	---	---	1	---	---	---	1	---	---	20	---
	P 747	200+93.3 "AT"	9' LT	1	---	---	1	---	---	---	1	---	---	20	---
	SL9600	110+52.3 "EB"	18.1' LT	---	1	---	---	1	1	---	---	2	---	70	---
UNDISTRIBUTED				---	---	---	---	4	---	---	---	---	---	280	6
	PROJECT 5992-09-31 TOTAL			**8**	**50**	**4**	**8**	**54**	**39**	**11**	**10**	**79**	**22**	**3,765**	**6**

PULLBOX

CATEGORY	STRUCTURE	STATION	OFFSET	SPV.0060.250 ELECTRICAL PULL BOX TYPE 1 (EACH)	SPV.0060.251 ELECTRICAL PULL BOX TYPE 3 (EACH)	SPV.0060.252 ELECTRICAL PULL BOX TYPE 5 (EACH)	SPV.0060.253 ELECTRICAL PULL BOX TYPE 7 (EACH)	SPV.0060.254 ELECTRICAL UTILITY ACCESS STRUCTURE (EACH)
0020	HH 4	117+07.2 "EB"	3.25' LT	1	---	---	---	---
	HH 5	122+39.2 "EB"	3.25' LT	1	---	---	---	---
	HH 7	127+69 "EB"	3.25' LT	1	---	---	---	---
	HH 8	129+77.8 "EB"	14.25' LT	---	1	---	---	---
	HH 9	131+68.3 "EB"	14.25' LT	1	---	---	---	---
	HH 10	132+56.8 "EB"	14.25' LT	1	---	---	---	---
	HH 12	132+81.6 "WB"	34.3' LT	---	---	---	1	---
	HH 13	132+83.9 "EB"	30.75' RT	1	---	---	---	---
	HH 14	133+71.5 "EB"	30.75' RT	1	---	---	---	---
	HH 17	20+87.6 "HP"	6.4' LT	1	---	---	---	---
	HH 18	22+07 "HP"	6.4' LT	---	1	---	---	---
	HH 22	134+37.8 "EB"	30.75' RT	1	---	---	---	---
	HH 23	134+64.6 "EB"	3.25' LT	---	1	---	---	---
	HH 24	135+53 "WB"	30.75' LT	1	---	---	---	---
	HH 25	137+37.6' WB"	30.75' LT	---	1	---	---	---
	HH 26	138+68 "EB"	3.3' LT	1	---	---	---	---
	HH 29	147+26.8 "EB"	3.3' LT	1	---	---	---	---
	HH 30	148+46.6 "EB"	6.6' LT	---	1	---	---	---
	HH 31	150+36.44 "EB"	14.25' LT	1	---	---	---	---
	HH 32	151+26.5 "EB"	14.25' LT	1	---	---	---	---
	HH 36	55+49.3 "CM"	29.75' LT	---	1	---	---	---
	HH 37	151+53.4 "EB"	30.75' RT	1	---	---	---	---
	HH 38	53+70.3 "CM"	19.6' LT	1	---	---	---	---
	HH 39	53+20.2 "CM"	29.75' RT	---	1	---	---	---
	HH 43	54+94.8 "CM"	22.9' RT	1	---	---	---	---
	HH 44	153+12.2 "WB"	30.75' LT	1	---	---	---	---
	HH 45	153+41 "EB"	4.7' LT	1	---	---	---	---
	HH 46	154+29.8 "EB"	4.75' LT	1	---	---	---	---
	HH 47	156+26 "WB"	5.6' RT	---	1	---	---	---
	HH 48	158+03.25 "EB"	3.25' LT	1	---	---	---	---
	HH 49	163+08.2 "EB"	3.3' LT	1	---	---	---	---
	HH 50	168+05.9 "EB"	14.25' LT	1	---	---	---	---
	HH 51	168+05.6 "WB"	30.8' LT	1	---	---	---	---
	HH 52	72+82.7 "TD"	21.5' LT	1	---	---	---	---
	HH 53	168+06 "EB"	30.8' RT	1	---	---	---	---
	HH 54	71+52.1 "TD"	20.5' LT	1	---	---	---	---
	HH 58	72+78.7 "TD"	23.9' RT	1	---	---	---	---
	HH 59	169+36.2 "WB"	30.8' LT	1	---	---	---	---
	HH 60	173+77.4 "EB"	3.3' LT	1	---	---	---	---
	HH 65	22+73.8 "MD"	43.4' LT	---	---	---	---	---
	HH 65 EXIST	22+73.5 "MD"	29.6' LT	---	---	---	---	---
		CATEGORY 0020 TOTAL		30	8	0	1	0

PULLBOX (CONT.)

CATEGORY	STRUCTURE	STATION	OFFSET	SPV.0060.250 ELECTRICAL PULL BOX TYPE 1 (EACH)	SPV.0060.251 ELECTRICAL PULL BOX TYPE 3 (EACH)	SPV.0060.252 ELECTRICAL PULL BOX TYPE 5 (EACH)	SPV.0060.253 ELECTRICAL PULL BOX TYPE 7 (EACH)	SPV.0060.254 ELECTRICAL UTILITY ACCESS STRUCTURE (EACH)
0030	HH 1	111+65.8 "WB"	32' LT	1	---	---	---	---
	HH 2	111+65.6 "WB"	8' RT	---	---	1	---	---
	HH 3	111+65.4 "EB"	30.7' RT	1	---	---	---	---
	HH 6	123+43.0 "EB"	4.9' LT	1	---	---	---	---
	HH 11	132+84 "EB"	14.9' LT	---	---	---	---	1
	HH 15	20+72.2 "HP"	52.33' LT	---	---	---	---	1
	HH 16	20+64.6 "HP"	5' LT	---	---	1	---	---
	HH 19	20+64.1 "HP"	30.4' RT	---	---	1	---	---
	HH 20	134+40.4 "WB"	30.75' LT	---	---	1	---	---
	HH 21	134+37.8 "EB"	3.9' LT	---	---	---	---	1
	HH 27	142+99 "EB"	3.3' LT	1	---	---	---	---
	HH 28	142+98.8 "EB"	30.8' RT	1	---	---	---	---
	HH 33	151+53.4 "EB"	15' LT	---	---	---	---	1
	HH 34	151+52.9 "WB"	30.75' LT	---	---	1	---	---
	HH 35	55+04.1 "CM"	37' LT	---	---	1	---	---
	HH 40	53+69.6 "CM"	29.75' RT	---	---	1	---	---
	HH 41	153+12.6 "EB"	31.3' RT	---	---	---	---	1
	HH 42	153+12.6 "EB"	4' LT	---	---	---	---	1
	HH 55	71+56 "TD"	19.8' RT	1	---	---	---	---
	HH 56	169+36.5 "EB"	30.75' RT	1	---	---	---	---
	HH 57	169+36.5 "EB"	3.3' LT	1	---	---	---	---
	HH 61	177+66.3 "EB"	7.6' LT	1	---	---	---	---
	HH 62	185+19.7 "WB"	4.5' RT	---	---	---	---	---
	HH 63	185+24.3 "WB"	6.4' RT	---	---	---	---	---
	HH 64	185+25.5 "WB"	31.8' LT	---	---	---	1	---
	HH 64 EXIST	185+30.3 "WB"	29.3' LT	---	1	---	---	---
	HH 66	123.42.7 "WB"	66.4' LT	1	---	---	---	---
	HH 67	123+43.8 "EB"	60.3' RT	1	---	---	---	---
		CATEGORY 0030 TOTAL		11	1	7	1	6
		PROJECT 5992-09-31 TOTAL		**41**	**9**	**7**	**2**	**6**

CONCRETE BASES (SIGNAL)

CATEGORY	STRUCTURE	STATION	OFFSET	SPV.0060.255 CONCRETE BASES TYPE G (EACH)	SPV.0060.258 CONCRETE BASES TYPE LB-8 (EACH)	654.0110 CONCRETE BASES TYPE 10 (EACH)	SPV.0060.260 CONCRETE BASES TYPE P (EACH)	SPV.0060.261 CONCRETE BASES OFFSET (EACH)	SPV.0060.262 CONCRETE BASES TYPE G SPREAD FOOTING (EACH)
0020	TS 8	132+72 "WB"	35' LT	---	---	1	---	---	---
	TS 7	132+89 "EB"	33.5' RT	1	---	---	---	---	---
	TS 9	132+88.2 "WB"	41.2' LT	---	---	---	---	---	---
	TC 1	20+71.3 "HP"	59.1' LT	---	---	---	1	---	---
	TS 6	133+20 "EB"	33.5' RT	---	---	1	---	---	---
	TS 5	133+67.1 "EB"	60.1' RT	1	---	---	---	---	---
	TS 4	134+31.7 "EB"	34.5' RT	---	---	1	---	---	---
	TS 2	20+58.9 "HP"	34.3' RT	1	---	---	---	---	---
	TS 3	134+32.6 "WB"	33' LT	1	---	---	---	---	---
	TS 12	151+59.5 "EB"	33.5' RT	1	---	---	---	---	---
	TS 13	151+59.2 "WB"	33.5' LT	---	---	1	---	---	---
	TS 11	53+76.2 "CM"	29.2' LT	---	---	---	---	---	1
	TS 14	152+61.2 "WB"	42.9' LT	---	1	---	---	---	---
	TS 15	153+05.3 "WB"	33' LT	---	---	---	---	---	---
	TS 10	153+04.8 "EB"	35.5' RT	---	---	1	---	---	---
	TC 2	153+12.5 "EB"	39.7' RT	---	---	---	1	---	---
	TC 3	185+16.2 "EB"	38.5' RT	---	---	---	1	---	---
	TS 16	185+14.1 "WB"	32.2' LT	---	---	1	---	---	---
	TS 17	185+28 "WB"	36.1' LT	1	---	---	---	---	---
	TS 19	185+29.5 "EB"	39.1" RT	1	---	---	---	---	---
	TS 18	21+02.2 "MD"	55.3' LT	---	---	1	---	---	---
	TS1	133+01.8 "WB"	58.8' LT	---	---	---	---	1	---
		PROJECT 5992-09-31 TOTAL		**7**	**1**	**7**	**3**	**1**	**1**

TRAFFIC SIGNAL POLES

CATEGORY	STRUCTURE	657.0100 PEDESTAL BASES (EACH)	SPV.0060.270 MONOTUBE POLES TYPE 9 (EACH)	SPV.0060.265 POLES 20-FT 7 GAUGE (EACH)	SPV.0060.271 TRAFFIC SIGNAL TROMBONE ARMS ALUMINUM 18-FT (EACH)	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT (EACH)	SPV.0060.272 MONOTUBE ARMS 30-FT (EACH)
0020	TS1	1	---	---	---	1	---
	TS2	1	---	---	---	1	---
	TS3	1	---	---	---	1	---
	TS4	---	1	---	---	---	1
	TS5	1	---	---	---	1	---
	TS6	---	1	---	---	---	1
	TS7	1	---	---	---	1	---
	TS8	---	1	---	---	---	1
	TS9	1	---	---	---	1	---
	TS10	---	1	---	---	---	1
	TS11	1	---	---	---	1	---
	TS12	1	---	---	---	1	---
	TS13	---	1	---	---	---	1
	TS14	---	---	1	1	---	---
	TS15	1	---	---	---	1	---
	TS 16	---	1	---	---	---	1
	TS 17	1	---	---	---	1	---
	TS 18	---	1	---	---	---	1
	TS 19	1	---	---	---	1	---
PROJECT 5992-09-31 TOTAL		**11**	**7**	**1**	**1**	**11**	**7**

SERVICE

CATEGORY	ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
0030				
	656.0200.001	ELECTRICAL SERVICE METER BREAKER PEDESTAL (CTH PD MEDIAN)	LS	1
	656.0200.002	ELECTRICAL SERVICE METER BREAKER PEDESTAL (SOUTH HIGH POINT)	LS	1
	656.0200.003	ELECTRICAL SERVICE METER BREAKER PEDESTAL (CTH PD)	LS	1
	656.0200.004	ELECTRICAL SERVICE METER BREAKER PEDESTAL (CTH PD-MUIR FIELD)	LS	1

ADDITIONAL ITEMS

CATEGORY	ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
0020				
	658.5069.001	SIGNAL MOUNTING HARDWARE (SOUTH HIGH POINT & CTH PD)	LS	1
	658.5069.002	SIGNAL MOUNTING HARDWARE (COUNTRY GROVE/MUIR FIELD & CTH PD)	LS	1
	658.5069.003	SIGNAL MOUNTING HARDWARE (MAPLE GROVE & CTH PD)	LS	1
	SPV.0105.250	OPTICAL SIGNAL PREEMPT	LS	1
	SPV.0105.251	TEMPORARY TRAFFIC SIGNALS (CTH PD & SOUTH HIGH POINT)	LS	1
	SPV.0105.252	TEMPORARY TRAFFIC SIGNALS (CTH PD & MAPLE GROVE)	LS	1

TRAFFIC SIGNAL

CATEGORY 0020

LOOP NO.	STATION	OFFSET		CURBLINE REFERENCE	SIZE	NO. TURNS	652.0800 CONDUIT LOOP DETECTOR (LF)	655.0800 LOOP DETECTOR WIRE (LF)
L1	129+81 "EB"	15	FT	N	6X16	3	62	168
L2	131+68.8 "EB"	26	FT	N	6X6	3	53	130
L3	131+67.8 "EB"	14	FT	N	6X6	3	41	106
L4	131+67.8 "WB"	3	FT	S	6X6	3	31	86
L5	131+68.8 "WB"	15	FT	S	6X6	3	43	110
L6	132+54.5 "EB"	3	FT	N	6X20	3	60	172
L7	132+76.6 "EB"	3	FT	N	6X6	3	31	86
L8	20+50 "HP"	7.9	FT	W	6X20	3	59	170
L9	20+75.5 "HP"	13.75	FT	W	6X3	3	41	106
L10	20+87 "HP"	15	FT	E	6X6	3	42	108
L11	20+76.4 "HP"	3	FT	E	6X6	3	30	84
L12	22+07 "HP"	4	FT	E	6X16	3	51	146
L13	55+32 IE	9	FT	E	6X14	3	53	146
L14	134+54 "EB"	3	FT	S	6X6	3	33	90
L15	134+70 "EB"	3	FT	S	6X20	3	61	174
L16	134+67 "EB"	3	FT	N	6X6	3	30	84
L17	134+64 "EB"	15	FT	N	6X6	3	42	108
L18	135+53.5 "WB"	9	FT	N	6X6	3	35	94
L19	135+52.6 "WB"	21	FT	N	6X6	3	47	118
L20	137+37.6 "WB"	10	FT	N	6X16	3	56	156
L21	148+47 "EB"	7.4	FT	N	6X16	3	54	152
L22	150+37 "EB"	26	FT	N	6X6	3	53	130
L23	150+36 "EB"	14	FT	N	6X6	3	41	106
L24	150+36 "EB"	3	FT	S	6X6	3	31	86
L25	156+37 "EB"	15	FT	S	6X6	3	43	110
L26	151+21 "EB"	3	FT	N	6X20	3	60	172
L27	151+37 "EB"	3	FT	N	6X6	3	31	86
L28	55+00.5 "CM"	13.75	FT	W	6X20	3	70	192
L29	55+49.8 "CM"	8	FT	W	6X6	3	32	88
L30	55+48.8 "CM"	20	FT	W	6X6	3	46	116
L31	53+70.7 "CM"	8	FT	E	6X20	3	62	176
L32	53+20.8 "CM"	20	FT	E	6X6	3	46	116
L33	15+19.8 "CM	8	FT	E	6X6	3	34	92
L34	153+29.8 "WB"	3	FT	S	6X6	3	32	88
L35	153+45.8 "WB"	3	FT	S	6X20	3	60	172
L36	154+28.8 "WB"	26	FT	S	6X6	3	53	130
L37	154+29.8 "WB"	14	FT	S	6X6	3	41	106
L38	154+30.3 "EB"	3	FT	N	6X6	3	31	86
L39	154.28.8 "EB"	15	FT	N	6X6	3	43	110
L40	156+19.8 "WB"	7	FT	S	6X16	3	53	150
					PROJECT 5592-09-31 TOTAL		**1,817**	**4,906**

OFFSET IS TO FRONT CENTER OF LOOP.

CURBLINE REFERENCE:

E: CURB EAST OF LOOP
W: CURB WEST OF LOOP
N: CURB NORTH OF LOOP
S: CURB SOUTH OF LOOP

3

CABLE & WIRE

CATEGORY	FROM	TO	655.0230 [c] 5-14 AWG (LF)	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG (LF)	655.0250 CABLE TRAFFIC SIGNAL 9-14 AWG (LF)	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG (LF)	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG (LF)	SPV.0090.251 LOOP DETECTOR LEAD-IN CABLE SPECIAL (LF)	SPV.0090.252 FIBER OPTIC CABLE 72-COUNT (LF)
CATEGORY 0020									
CTH PD & SOUTH HIGH POINT ROAD									
	TC1	TS1	21	---	---	---	---	---	---
	TC1	SL6531	---	75	---	---	---	---	---
	TC1	TS2	---	---	110	---	---	---	---
	TC1	TS3	---	---	---	180	---	---	---
	TC1	SL9615	---	223	---	---	---	---	---
	TC1	TS4	---	---	---	260	---	---	---
	TC1	TS5	264	---	---	---	---	---	---
	TC1	TS6	---	188	---	---	---	---	---
	TC1	TS7	---	---	---	157	---	---	---
	TC1	SL9614	---	111	---	---	---	---	---
	TC1	TS8	---	72	---	---	---	---	---
	TC1	TS9	---	---	---	77	---	---	---
	TC1	HH15	---	---	---	---	---	---	57
	HH15	HH12	---	---	---	---	---	---	50
	HH12	HH11	---	---	---	---	---	---	88
	HH11	HH21	---	---	---	---	---	---	162
	HH21	HH26	---	---	---	---	---	---	481
	HH26	HH27	---	---	---	---	---	---	480
	HH27	HH29	---	---	---	---	---	---	479
	HH29	HH33	---	---	---	---	---	---	480
	System Ground		---	---	---	---	1,738	---	---
	System Neutral		---	---	---	---	1,738	---	---
	Detector loop lead-in		---	---	---	---	---	2,245	---
CTH PD & MUIR FIELD ROAD									
	TC2	TS10	---	---	---	22	---	---	---
	TC2	SL9629	---	---	---	89	---	---	---
	TC2	TS11	---	---	143	---	---	---	---
	TC2	TS12	---	---	---	214	---	---	---
	TC2	TS13	---	---	---	592	---	---	---
	TC2	SL9628	---	230	---	---	---	---	---
	TC2	TS14	---	---	---	171	---	---	---
	TC2	TS15	---	---	---	102	---	---	---
	TC2	SL9630	---	49	---	---	---	---	---
	HH33	HH42	---	---	---	---	---	---	212
	HH42	HH41	---	---	---	---	---	---	80
	HH41	TC2	---	---	---	---	---	---	116
	HH42	HH48	---	---	---	---	---	---	542
	HH48	HH49	---	---	---	---	---	---	554
	HH49	HH50	---	---	---	---	---	---	548
	HH50	HH57	---	---	---	---	---	---	181
	HH57	HH60	---	---	---	---	---	---	490
	HH60	HH61	---	---	---	---	---	---	440
	HH61	HH64	---	---	---	---	---	---	840
	System Ground		---	---	---	---	1,612	---	---
	System Neutral		---	---	---	---	1,612	---	---
	Detector loop lead-in		---	---	---	---	---	3,060	---

[c] ADDITIONAL QUANTITIES LISTED IN CABLE TRAFFIC SIGNAL

CABLE & WIRE (CONT.)

CATEGORY	FROM	TO	655.0230 [c] 5-14 AWG (LF)	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG (LF)	655.0250 CABLE TRAFFIC SIGNAL 9-14 AWG (LF)	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG (LF)	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG (LF)	SPV.0090.251 LOOP DETECTOR LEAD-IN CABLE SPECIAL (LF)	SPV.0090.252 FIBER OPTIC CABLE 72-COUNT (LF)
CATEGORY 0020									
CTH PD & MAPLE GROVE DRIVE									
	TC 3	TS 19	---	---	---	23	---	---	---
	TC 3	TS 18	---	---	40	---	---	---	---
	TC 3	TS 16	---	---	125	---	---	---	---
	TC 3	TS 17	---	---	---	110	---	---	---
	TC 3	SL 8325	---	130	---	592	---	---	---
	System Ground		---	---	---	---	1,020	---	---
	System Neutral		---	---	---	---	1,020	---	---
	Detector loop lead-in		---	---	---	---	---	181	---
	PROJECT 5992-09-31 TOTAL		**285**	**1,078**	**418**	**2,589**	**8,740**	**5,486**	**6,280**

REMOVALS

CATEGORY	STATION	OFFSET	204.0195 REMOVING CONCRETE BASES (EACH)	653.0905 REMOVING PULL BOXES (EACH)	SPV.0060.280 STREET LIGHT REMOVAL (EACH)
0020	132+93 "WB"	25' LT	1	---	---
	133+20.7 "EB"	23.6' RT	1	---	---
	185+34.4 "WB"	31.1' LT	1	---	---
	20+50 "HP"	42' LT	1	---	---
	CATEGORY 0020 TOTAL		4	0	0
0030	114+32.3 "EB"	5.9' LT	1	---	1
	134+18.3 "EB"	23.7' RT	1	---	1
	134+21.9 "EB"	5.9' LT	1	---	1
	136+09.3 "EB"	5.7' LT	1	---	1
	137+98.6 "EB"	1.9' LT	1	---	1
	139+91.6 "EB"	2' LT	1	---	1
	177+70.3 "EB"	6.7' LT	1	---	1
	185+30.3 "WB"	29.3' LT	---	1	---
	188+34.4 "EB"	34.9' RT	1	---	---
	188+49.4 "EB"	52.1' RT	1	---	---
	22+21.5 "MD"	34.5' LT	1	---	---
	22+73.5 "MD"	29.6' LT	---	1	---
	41+40.4 "SP"	19.5' RT	1	---	1
	110+52.3 "EB"	18' LT	1	---	1
	CATEGORY 0030 TOTAL		12	2	9
	PROJECT 5992-09-31 TOTAL		**16**	**2**	**9**

CABLE TRAFFIC SIGNAL

CATEGORY	AT POLE #	TO HEAD #	655.0230 [d] CABLE TRAFFIC SIGNAL 5-14 AWG (LF)
CATEGORY 0020			
CTH PD & SOUTH HIGH POINT ROAD			
	TS1	1	15
	SL6531	2	15
	SL6531	3	15
	TS2	4	15
	TS2	21	15
	TS3	5	15
	TS3	6	15
	TS3	22	15
	SL9615	7	15
	SL9615	8	15
	TS4	9	55
	TS4	10	40
	TS4	23	15
	TS5	11	15
	TS6	12	45
	TS6	13	35
	TS7	14	15
	TS7	15	15
	TS7	24	15
	SL9614	17	15
	SL9614	16	15
	TS8	18	55
	TS8	19	45
	TS20	20	15
	TS20	25	15
	TS20	26	15
		SUBTOTAL	575
CTH PD & MUIR FIELD ROAD			
	TS10	27	55
	TS10	28	45
	TS10	46	15
	SL9629	29	15
	SL9629	30	15
	SL9629	47	15
	TS11	31	15
	TS11	48	15
	TS12	32	15
	TS12	33	15
	TS12	49	15
	SL9627	35	15
	SL9627	34	15
	TS13	37	45
	TS13	38	55
	TS13	50	15
	TS13	51	15
	SL9628	38	15
	SL9628	39	15
	TS14	40	45
	TS14	41	15
	TS14	52	15
	TS15	42	15
	TS15	43	15
	TS15	53	15
	SL9630	44	15
	SL9630	45	15
		SUBTOTAL	575

[d] ADDITIONAL QUANTITIES LISTED IN CABLE & WIRE

CABLE TRAFFIC SIGNAL (CONT.)

CATEGORY	AT POLE #	TO HEAD #	655.0230 [d] CABLE TRAFFIC SIGNAL 5-14 AWG (LF)
CATEGORY 0020			
CTH PD & MAPLE GROVE DRIVE			
	SL8325	58	15
	TS 17	61	15
	TS 17	62	15
	TS 16	54	55
	TS 16	55	45
	TS 19	59	15
	TS 19	60	15
	TS 18	56	55
	TS 18	57	45
		SUBTOTAL	275
		PROJECT 5992-09-31 TOTAL	**1,425**

TRAFFIC SIGNAL

CATEGORY	STRUCTURE	SPV.0060.273 TRAFFIC SIGNAL HEADS 12-INCH 3-SECTION VERTICAL (EACH)	SPV.0060.274 TRAFFIC SIGNAL HEADS 16-INCH PEDESTRIAN WITH COUNTDOWN (EACH)	SPV.0060.275 BACKPLATES SIGNAL FACE 3-SECTION 12-INCH (EACH)	658.0500 PEDESTRIAN PUSH BUTTONS (EACH)	SPV.0060.276 TRAFFIC SIGNAL CONTROL CABINET (EACH)	SPV.0060.277 TRAFFIC SIGNAL CONTROLLER (EACH)	SPV.0060.278 TRAFFIC SIGNAL ETHERNET SWITCH (EACH)	SPV.0060.279 MALFUNCTION MANAGEMENT UNIT (EACH)
0020									
CTH PD & SOUTH HIGH POINT ROAD									
	TC1	---	---	---	---	1	1	1	1
	TS1	1	---	1	1	---	---	---	---
	SL6531	2	---	2	1	---	---	---	---
	TS2	1	1	1	1	---	---	---	---
	TS3	2	1	2	1	---	---	---	---
	SL9615	2	---	2	1	---	---	---	---
	TS4	2	1	2	1	---	---	---	---
	TS5	1	---	1	---	---	---	---	---
	TS6	2	---	2	---	---	---	---	---
	TS7	2	1	2	1	---	---	---	---
	SL9614	2	---	2	1	---	---	---	---
	TS8	2	---	2	---	---	---	---	---
	SUBTOTAL	19	4	19	8	1	1	1	1
CTH PD & MUIR FIELD ROAD									
	TC2	---	---	---	---	1	1	1	1
	TS9	1	2	1	1	---	---	---	---
	TS10	2	1	2	1	---	---	---	---
	SL9629	2	1	2	1	---	---	---	---
	TS11	1	1	1	1	---	---	---	---
	TS12	2	1	2	1	---	---	---	---
	SL9627	2	---	2	1	---	---	---	---
	TS13	2	2	2	1	---	---	---	---
	SL9628	2	---	2	1	---	---	---	---
	TS14	2	1	2	1	---	---	---	---
	TS15	2	1	2	1	---	---	---	---
	SL9630	2	---	2	1	---	---	---	---
	SUBTOTAL	20	10	20	11	1	1	1	1
CTH PD & MAPLE GROVE DRIVE									
	TC3	---	---	---	---	1	1	1	1
	TS16	2	---	2	---	---	---	---	---
	TS17	---	2	---	1	---	---	---	---
	TS18	2	---	2	1	---	---	---	---
	TS 19	---	2	---	1	---	---	---	---
	SL8325	1	---	1	1	---	---	---	---
	SUBTOTAL	5	4	5	4	1	1	1	1
PROJECT 5992-09-31 TOTAL		**44**	**18**	**44**	**23**	**3**	**3**	**3**	**3**

LIGHTING CONTROL

CATEGORY	STRUCTURE	SPV.0060.281 LIGHTING CONTROL CABINET (EACH)
0030	LC1	1
	LC2	1
	LC3	1
	LC4	1
PROJECT 5992-09-31 TOTAL		**4**

3

MMSD SANITARY SEWER COVER

CATEGORY	STATION	OFFSET	SPV.0090.011 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 48-INCH SPECIAL HALF SECTION (LF)
0040	POND A		
	14+54 'PA'	29.4' RT	54
PROJECT 5992-09-31 TOTALS			**54**

PROPERTY CORNERS

CATEGORY	STATION TO STATION	SPV.0060.008 LOCATE AND REFERENCE PROPERTY CORNERS (EACH)	SPV.0060.009 RESET PROPERTY CORNERS (EACH)
0010	CTH PD (WESTBOUND)		
	110+63 'WB' - 133+59 'WB'	3	3
	133+59 'WB' - 138+08 'WB'	2	2
	138+08 'WB' - 142+52 'WB'	1	1
	142+52 'WB' - 152+32 'WB'	2	2
	152+32 'WB' - 168+69 'WB'	6	6
	168+69 'WB' - 174+44 'WB'	2	2
	CTH PD (EASTBOUND)		
	133+59 'EB' - 138+08 'EB'	2	2
	142+52 'EB' - 152+32 'EB'	6	6
	152+32 'EB' - 168+69 'EB'	11	11
	STRATTON WAY		
	30+00 'SW' - 31+50 'SW'	2	2
	MUIR FIELD ROAD		
	54+50 'CM' - 57+00 'CM'	1	1
	COUNTRY GROVE DRIVE		
	52+16 'CM' - 54+30 'CM'	2	2
	MAPLE GROVE DRIVE		
	22+00 'MD' - 24+61 'MD'	2	2
PROJECT 5992-09-31 TOTALS		**42**	**42**

TREES

CATEGORY	ROADWAY	LOCATION	BID ITEM NO.	NAME	632.0101 TREES (EACH)	632.0201 SHRUBS (EACH)
0010	CTH PD	ICE AGE TRAIL CROSSING		EVERGREENS		
			632.0101.001	JUNIPER, HILL DUNDEE, 5' HT., B&B	4	---
			632.0101.002	JUNIPER, 'MOUTBATTEN', 5' HT., B&B	3	---
			632.0101.003	SPRUCE, BLACK HILLS, 7' HT., B&B	2	---
			632.0101.004	HAWTHRON, 'WINTER KING', 2.5" CAL. B&B	1	---
			632.0201.001	SPIREA, GOLDFLAME	---	2
			PROJECT 5992-09-31 TOTALS		**10**	**2**

UTILITY LINE OPENING (ULO)

CATEGORY	STATION TO STATION	SPV.0060.015 (EACH)
0010	UNDISTRIBUTED	30
PROJECT 5992-09-31 TOTALS		**30**

SPLIT RAIL FENCE

CATEGORY	STATION	SPV.0090.010 (LF)
0010	CTH PD (WESTBOUND)	
	110+63 'WB' - 133+59 'WB'	153
PROJECT 5992-09-31 TOTALS		**153**

EROSION MAT, CLASS I, TYPE B FOR SHORT GRASS PRAIRIE

CATEGORY	LOCATION	SPV.0180.002 (SY)
0010	ICE AGE JUNCTION PATH	3,800
PROJECT 5992-09-31 TOTALS		**3,800**

STORM SEWER PLUG

CATEGORY	STATION	OFFSET	SPV.0060.091 (EACH)
0040	POND B		
	22+34 'PB'	62.9' LT	1
PROJECT 5992-09-31 TOTALS			**1**

LANDSCAPE SURVEILLANCE AND CARE CYCLES

CATEGORY	ROADWAY	LOCATION	632.9101 (EACH)
0010	CTH PD	ICE AGE TRAIL CROSSING, SPECIALTY SEED AREAS	20
PROJECT 5992-09-31 TOTALS			**20**

RETAINING WALL

CATEGORY	STAGE	STATION TO STATION	SPV.0165.001 WALL MODULAR BLOCK GRAVITY LRFD (SF)
0010	STAGE 2		
		ICE AGE JUNCTION TRAIL	
		209+66 'AT' - 210+20 'AT'	615
PROJECT 5992-09-31 TOTALS			**615**

SEEDING MIXTURE

CATEGORY	LOCATION	SPV.0085.001 RANGE PASTURE (LB)	SPV.0085.002 SHORT GRASS PRAIRIE (LB)
0010	ICE AGE JUNCTION PATH	18	8
PROJECT 5992-09-31 TOTALS		**18**	**8**

REMOVE AND REPLACE MAILBOXES

CATEGORY	STATION TO STATION	SPV.0060.010 (EACH)
0090	CTH PD (WESTBOUND)	
	152+32 'WB' - 168+69 'WB'	21
	CTH PD (EASTBOUND)	
	110+63 'EB' - 133+59 'EB'	1
PROJECT 5992-09-31 TOTALS		**22**

TOPSOIL SPECIAL

CATEGORY	LOCATION	SPV.0035.001 (CY)
0010	ICE AGE JUNCTION PATH	11
PROJECT 5992-09-31 TOTALS		**11**

LANDSCAPING

CATEGORY	LOCATION	SPV.0090.012 LANSCAPE PROTECTION FENCE (LF)	SPV.0105.004 SALVAGE, STORE, AND RE-SET LANDSCAPE COBBLES (LS)	SPV.0180.003 SHREDDED HARDWOOD BARK MULCH, 3" DEPTH (SY)
0010	MUIR FIELD DRIVE	25	1	6
PROJECT 5992-09-31 TOTALS		**25**	**1**	**6**

PAVEMENT CLEANUP PROJECT

CATEGORY	STATION TO STATION	SPV.0170.001 PROJECT 5992-09-31 (STA)
0010	CTH PD (WESTBOUND)	
	110+63 'WB' - 133+59 'WB'	23
	133+59 'WB' - 138+08 'WB'	4
	138+08 'WB' - 142+52 'WB'	4
	142+52 'WB' - 152+32 'WB'	10
	152+32 'WB' - 168+69 'WB'	16
	168+69 'WB' - 174+44 'WB'	6
	174+44 'WB' - 185+95 'WB'	12
	CTH PD (EASTBOUND)	
	110+63 'EB' - 133+59 'EB'	23
	133+59 'EB' - 138+08 'EB'	4
	138+08 'EB' - 142+52 'EB'	4
	142+52 'EB' - 152+32 'EB'	10
	152+32 'EB' - 168+69 'EB'	16
	168+69 'EB' - 174+44 'EB'	6
	174+44 'EB' - 185+95 'EB'	12
	MERITER WAY	
	10+00 'MW' - 10+62 'MW'	1
	SOUTH HIGH POINT ROAD	
	20+00 'HP' - 24+72 'HP'	9
	STRATTON WAY	
	30+00 'SW' - 31+50 'SW'	2
	SNOWY PARKWAY	
	41+00 'SP' - 41+94 'SP'	1
	MUIR FIELD ROAD	
	54+50 'CM' - 57+00 'CM'	3
	COUNTRY GROVE DRIVE	
	52+16 'CM' - 54+30 'CM'	2
	SILVERTON TRAIL	
	72+35 'TS' - 73+00 'TS'	1
	TANGLEWOOD DRIVE	
	71+15 'TS' - 72+12 'TS'	1
	STONECREEK DRIVE	
	92+23 'SD' - 93+07 'SD'	1
	MAPLE GROVE DRIVE	
	20+24 'MD' - 21+35 'MD'	1
	22+00 'MD' - 24+61 'MD'	
PROJECT 5992-09-31 TOTAL		**171**

3

SANITARY SEWER

CATEGORY	STRUCTURE	STATION	OFFSET	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE (%)	SPV.0060.200 SANITARY SEWER TAP (EACH)	SPV.0060.211 ADJUST SAS SPECIAL (EACH)	SPV.0060.212 SANITARY SEWER INTERNAL CHIMNEY SEAL (EACH)	SPV.0060.213 ADJUST SEWER ACCESS STRUCTURE SPECIAL (EACH)	SPV.0060.214 ABANDON SANITAY SEWER- PIPE PLUG (EACH)	SPV.0060.215 SANITARY SEWER ACCESS STRUCTURE (4-FOOT DIAMETER) (EACH)	SPV.0060.004 MANHOLE COVER TYPE J SPECIAL (EACH)	SPV.0090.201 SELECT FILL FOR SANITARY SEWER (LF)	SPV.0090.208 REMOVE SANITARY SEWER PIPE (LF)	SPV.0090.210 SANITARY SEWER PIPE PVC, 8-INCH (LF)	SPV.0090.212 SANITARY SEWER PIPE, 10-INCH (LF)	SPV.0090.211 SANITARY SEWER PRESSURE PIPE (C900) 10-INCH (LF)
0010		CTH PD (WESTBOUND)																
	EX. MMSD MH12-126A	148+73 'WB'	37' LT	---	---	---	1	---	1	1	---	---	---	---	---	---	---	---
	SAS #1	54+89 'CM'	9' LT	---	---	---	---	---	---	---	1	1	1	---	---	---	---	---
	SAS #2	55+51 'CM'	8' LT	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---
	EX. SAS 2573-012	55+65 'CM'	58' LT	---	---	---	1	---	---	---	1	---	---	---	---	---	---	---
		160+97 'WB'	44' LT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---
		162+83 'WB'	44' LT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---
		168+69 'WB'	38' LT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---
		170+32 'WB'	34' LT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---
		173+68 'WB'	34' LT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---
		177+19 'WB'	32' LT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---
		148+73 'WB' - 54+89 'CM'	---	977.00	973.81	0.91%	---	---	---	---	---	---	---	350	350	---	---	350
		54+89 'CM' - 55+51 'CM'	---	978.80	977.10	2.74%	---	---	---	---	---	---	---	62	62	---	62	---
		55+51 'CM' - 55+65 'CM'	---	979.44	978.90	1.04%	---	---	---	---	---	---	---	52	---	52	---	---
		SOUTH HIGH POINT ROAD																
		22+55 'HP'	28' LT				---	1	---	---	---	---	---	---	---	---	---	---
PROJECT 5992-09-32 TOTALS							**2**	**7**	**1**	**1**	**2**	**2**	**2**	**464**	**412**	**52**	**62**	**350**

WATER VALVE

CATEGORY	STATION	OFFSET	SPV.0060.202 6-INCH (EACH)	SPV.0060.203 8-INCH (EACH)	SPV.0060.204 12-INCH (EACH)
0020	CTH PD (WESTBOUND)				
	111+86 'WB'	16' LT	---	---	1
	111+95 'WB'	16' LT	---	---	1
	116+60 'WB'	22' LT	1	---	---
	116+70 'WB'	15' LT	---	---	1
	116+80 'WB'	22' LT	1	---	---
	117+00 'WB'	22' LT	1	---	---
	117+05 'WB'	15' LT	---	---	1
	122+00 'WB'	22' LT	1	---	---
	122+05 'WB'	16' LT	---	---	1
	126+95 'WB'	16' LT	---	---	1
	127+05 'WB'	16' LT	---	---	1
	169+36 'WB'	26' LT	1	---	---
	SOUTH HIGH POINT ROAD				
	20+44 'HP'	20' LT	---	---	1
	20+53 'HP'	16' RT	---	1	---
	20+63 'HP'	29' LT	1	---	---
	20+63 'HP'	17' RT	---	1	---
	20+68 'HP'	24' LT	---	---	1
	23+19 'HP'	22' RT	1	---	---
	23+20 'HP'	29' LT	1	---	---
PROJECT 5992-09-32 TOTALS			**8**	**2**	**9**

HYDRANTS

CATEGORY	STATION	OFFSET	SPV.0060.201 HYDRANTS (EACH)
0020	CTH PD (WESTBOUND)		
	111+90 'WB'	33' LT	1
	117+00 'WB'	33' LT	1
	122+00 'WB'	33' LT	1
	126+00 'WB'	33' LT	1
	151+49 'WB'	17' LT	1
	169+36 'WB'	33' LT	1
	169+40 'WB'	21' LT	1
	SOUTH HIGH POINT ROAD		
	20+58 'HP'	48' LT	1
	20+58 'HP'	32' RT	1
	20+63 'HP'	55' LT	1
	23+20 'HP'	41' LT	1
	23+20 'HP'	30' RT	1
	MAPLE GROVE DRIVE		
	22+34 'MD'	47' LT	1
	22+34 'MD'	32' LT	1
PROJECT 5992-09-32 TOTALS			**14**

MMSD MANHOLE ADJUSTMENTS

CATEGORY	STATION	OFFSET	SPV.0060.210 ADJUST MMSD SPECIAL (EACH)	NOTES
0030	CTH PD (WESTBOUND)			
	146+37 'WB'	232' LT	1	APPROXIMATELY 0.25-FT ADJUSTMENT
	148+72 'WB'	37' LT	1	APPROXIMATELY 1-FT ADJUSTMENT
	149+68 'WB'	42' RT	1	APPROXIMATELY 1.5-FT ADJUSTMENT
PROJECT 5992-09-32 TOTALS			**3**	

WATER MAIN

CATEGORY	STATION	OFFSET	SPV.0060.205 CUT-IN OR CONNECT-TO EXISTING WATER SYSTEM (EACH)	SPV.0060.206 ADJUST WATER VALVE BOX (EACH)	SPV.0060.208 TEMPORARY WATER MAIN CONNECTION (EACH)	SPV.0060.209 EXCAVATE TRENCH FOR LIVE TAP (EACH)	SPV.0090.203 ROCK EXCAVATION WATER MAIN (LF)
0020	CTH PD (WESTBOUND)						
	119+50 'WB' - 125+50 'WB'	---	---	---	---	---	600
	138+42 'WB'	45' LT	---	1	---	---	---
	138+66 'WB'	43' LT	---	1	---	---	---
	146+32 'WB'	46' LT	---	1	---	---	---
	146+39 'WB'	43' LT	---	1	---	---	---
	151+84 'WB'	20' LT	---	1	---	---	---
	152+25 'WB'	14' LT	---	1	---	---	---
	152+66 'WB'	21' LT	---	1	---	---	---
	152+85 'WB'	30' LT	---	1	---	---	---
	158+08 'WB'	30' LT	---	1	---	---	---
	158+78 'WB'	31' LT	---	1	---	---	---
	158+82 'WB'	29' LT	---	1	---	---	---
	160+93 'WB'	39' LT	---	1	---	---	---
	161+04 'WB'	39' LT	---	1	---	---	---
	162+73 'WB'	37' LT	---	1	---	---	---
	162+86 'WB'	36' RT	---	1	---	---	---
	163+94 'WB'	38' LT	---	1	---	---	---
	164+50 'WB'	36' LT	---	1	---	---	---
	166+41 'WB'	33' LT	---	1	---	---	---
	166+42 'WB'	33' LT	---	1	---	---	---
	168+35 'WB'	22' LT	---	1	---	---	---
	169+01 'WB'	21' LT	---	1	---	---	---
	169+18 'WB'	19' LT	---	1	---	---	---
	CTH PD (EASTBOUND)						
	175+20 'EB'	44' RT	---	1	---	---	---
	185+33 'EB'	46' RT	---	1	---	---	---
	SOUTH HIGH POINT ROAD						
	20+44 'HP'	24' LT	1	---	1	1	---
	20+44 'HP'	12' RT	1	---	1	1	---
	20+44 'HP'	21' RT	1	---	1	1	---
	20+47 'HP'	35' LT	---	1	---	---	---
	SNOWY PARKWAY						
	41+09 'SP'	13' RT	---	1	---	---	---
	41+11 'SP'	10' RT	---	1	---	---	---
	MUIR FIELD ROAD						
	54+90 'CM'	8' RT	---	1	---	---	---
	SILVERTON TRAIL						
	72+75 'TS'	12' RT	---	1	---	---	---
	STONECREEK DRIVE						
	92+48 'SD'	12' RT	---	1	---	---	---
	92+62 'SD'	7' RT	---	1	---	---	---
	92+63 'SD'	18' RT	---	1	---	---	---
	MAPLE GROVE DRIVE						
	22+11 'MD'	23' LT	---	1	---	---	---
	22+34 'MD'	24' LT	---	1	---	---	---
PROJECT 5992-09-32 TOTALS			**3**	**34**	**3**	**3**	**600**

WATER MAIN

CATEGORY	STATION	SPV.0090.204 WATER MAIN 6-INCH (LF)	SPV.0090.205 WATER MAIN 8-INCH (LF)	SPV.0090.206 WATER MAIN 12-INCH (LF)
0020	CTH PD (WESTBOUND)			
	110+63 'WB' - 133+59 'WB'	101	---	2,244
	168+69 'WB' - 174+44 'WB'	12	---	---
	SOUTH HIGH POINT ROAD			
	20+00 'HP' - 24+72 'HP'	77	291	312
	MAPLE GROVE DRIVE			
	22+00 'MD' - 24+61 'MD'	15	---	---
PROJECT 5992-09-32 TOTALS		**205**	**291**	**2,556**

WATER MAIN INSULATION

CATEGORY	STATION	OFFSET	SPV.0090.207 (LF)
0020	CTH PD (WESTBOUND)		
	111+47 'WB'	16' LT	8
	111+72 'WB'	16' LT	8
	111+90 'WB'	28' LT	8
	115+00 'WB'	15' LT	8
	116+60 'WB'	28' LT	8
	116+80 'WB'	28' LT	8
	117+00 'WB'	28' LT	8
	118+50 'WB'	15' LT	8
	130+00 'WB'	16' LT	8
	132+86 'WB'	16' LT	8
	148+17 'WB'	42' LT	8
	148+32 'WB'	44' LT	8
	150+76 'WB'	42' LT	48
	152+61 'WB'	21' LT	8
	153+00 'WB'	27' LT	8
	156+10 'WB'	27' LT	8
	158+36 'WB'	28' LT	8
	168+10 'WB'	22' LT	8
	169+17 'WB'	3' RT	8
	SOUTH HIGH POINT ROAD		
	20+31 'HP'	24' LT	8
	22+46 'HP'	17' RT	8
	22+54 'HP'	24' LT	8
	MUIR FIELD ROAD		
	55+12 'CM'	9' RT	8
	SILVERTON DRIVE		
	72+97 'TS'	12' RT	8
PROJECT 5992-09-32 TOTALS			**232**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
PROJECT NO. 5992-09-30
CITY OF MADISON, McKEE ROAD
MERITER WAY - MAPLE GROVE DRIVE
CTH PD
DANE COUNTY



CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYPE)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT

SECTION CORNER
NOTATION FOR COMBUSTABLE FLUIDS — CAUTION
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES — CAUTION

R/W MONUMENT
NON-MONUMENTED R/W POINT
FOUND IRON PIN — IP
VALVE (GAS, WATER, ETC.) — (TYPE)
SIGN — SIGN
OFF-PREMISE SIGN — 41-25 — SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	○
TELEPHONE POLE	●	⌀
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	✱	✱

ACCESS CONTROLLED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL DOC. NO. 1368501)
NO ACCESS (NEW HIGHWAY)

BRIDGE

PARCEL NUMBER — 25
UTILITY NUMBER — 40

CONVENTIONAL ABBREVIATIONS

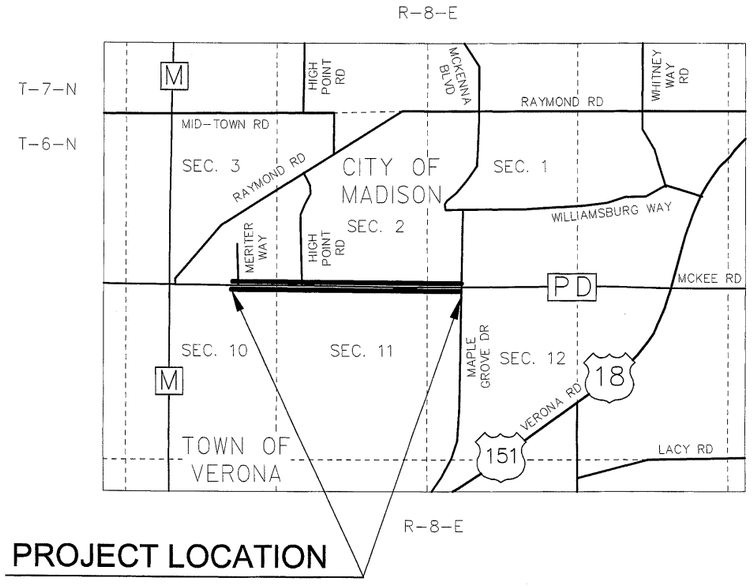
ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RIGHT	RT
CENTERLINE	C/L	RIGHT OF WAY	R/W
CERTIFIED SURVEY MAP	CSM	SECTION	SEC
CONCRETE	CONC	SEPTIC VENT	SEPV
COUNTY	CO	SQUARE FEET	SF
COUNTY TRUNK HIGHWAY	CTH	STATE TRUNK HIGHWAY	STH
DISTANCE	DIST	STATION	STA
CORNER	COR	SUBDIVISION	SUBD
DOCUMENT NUMBER	DOC	TANGENT	TAN
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED EASEMENT	TLE
GAS VALVE	GV	TRANSPORTATION PROJECT PLAT	TPP
GRID NORTH	GN	UNITED STATES HIGHWAY	USH
HIGHWAY EASEMENT	HE	VOLUME	V
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		

CURVE DATA

LONG CHORD	LC
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	Δ
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS



N

LAYOUT
SCALE 0 0.5 MI.

THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 5992-09-30

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83 (1997), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES. GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A **TEMPORARY LIMITED EASEMENT** (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A **PERMANENT LIMITED EASEMENT** (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE CITY OF MADISON.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING ACCESS CONTROL ALONG CTH PD/McKEE ROAD ESTABLISHED FROM DOC.1368501 AND THE FOLLOWING SUBDIVISION PLATS: COUNTRY GROVE, EAST PASS ADDITION TO COUNTY GROVE, TANGLEWOOD ADDITION TO COUNTRY GROVE, TIMBERWOOD ADDITION TO COUNTRY GROVE, ICE AGE RIDGE. RUDI ADDITION TO WESTHAVEN TRAILS, AARON ADDITION TO WESTHAVEN TRAILS, STRATTON RIDGE AND ICE AGE FALLS SUBDIVISION ALONG WITH CSM 5990.

EXISTING R/W FOR CTH PD/McKEE ROAD IS ESTABLISHED FROM PREVIOUS PROJECTS 5992-04-13, JOB NO. 1278, DOC. NO. 3882923 AND FROM THE FOLLOWING SUBDIVISION PLATS: COUNTRY GROVE, EAST PASS ADDITION TO COUNTY GROVE, TANGLEWOOD ADDITION TO COUNTRY GROVE, TIMBERWOOD ADDITION TO COUNTRY GROVE, ICE AGE RIDGE, WESTHAVEN TRAILS, RUDI ADDITION TO WESTHAVEN TRAILS, AARON ADDITION TO WESTHAVEN TRAILS, STRATTON RIDGE AND ICE AGE FALLS SUBDIVISION, THIRD ADDITION TO DOWNS OF WEST MEADOWOOD AND FROM CSM'S 12283 & 5990.

EXISTING R/W FOR MERITER WAY IS ESTABLISHED FROM CSM 12283.

EXISTING R/W FOR SNOWY PARKWAY IS ESTABLISHED FROM SUBDIVISION PLAT OF ICE AGE RIDGE.

EXISTING R/W FOR SOUTH HIGH POINT ROAD IS ESTABLISHED FROM SUBDIVISION PLAT OF STRATTON RIDGE.

EXISTING R/W FOR STRATTON WAY IS ESTABLISHED FROM SUBDIVISION PLAT OF STRATTON RIDGE.

EXISTING R/W FOR MUIR FIELD ROAD IS ESTABLISHED FROM SUBDIVISION PLAT OF RUDI ADDITION TO WESTHAVEN TRAILS.

EXISTING R/W FOR COUNTRY GROVE DRIVE IS ESTABLISHED FROM SUBDIVISION PLAT OF COUNTRY GROVE.

EXISTING R/W FOR SILVERTON TRAIL IS ESTABLISHED FROM SUBDIVISION PLAT OF RUDI ADDITION TO WESTHAVEN TRAILS.

EXISTING R/W FOR TANGLEWOOD DRIVE IS ESTABLISHED FROM SUBDIVISION PLAT OF TANGLEWOOD ADDITION TO COUNTRY GROVE.

EXISTING R/W FOR STONECREEK DRIVE IS ESTABLISHED FROM SUBDIVISION PLAT OF EAST PASS ADDITION TO COUNTY GROVE.

EXISTING R/W FOR MAPLE GROVE DRIVE IS ESTABLISHED FROM SUBDIVISION PLATS OF THIRD ADDITION TO THE DOWNS OF WEST MEADOWOOD, EAST PASS ADDITION TO COUNTY GROVE AND CSM 13302.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 5992-09-30 - 4.01
SHEET 2 OF 2

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\RW\TITLE SHEET.DWG
APPRAISAL PLAT DATE : AUGUST 26, 2016
PLOT DATE :
PLOT BY : KL ENGINEERING
PLOT NAME : ----------
LAYOUT NAME - ****
5992-09-30 - 4.01

TRANSPORTATION PROJECT PLAT NO: 5992-09-30 - 4.01

THAT PART OF THE NE 1/4 - NE 1/4 OF SECTION 10, TOWN OF VERONA; PART OF LOT 1, CSM 12283 (RECORDED IN V. 76, P. 99 AS DOC. 4366425) IN THE SE 1/4 - SE 1/4, SECTION 3, CITY OF MADISON, ALL IN T6N, R8E, DANE COUNTY, WISCONSIN.

RELOCATION ORDER CITY OF MADISON, McKEE ROAD, MERITER WAY - MAPLE GROVE DRIVE

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF MADISON DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 62.22, WISCONSIN STATUTES, THE CITY OF MADISON HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MADISON, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

NOTES:

1) POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD 83(1997) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES. GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

2) EXISTING ACCESS CONTROL ALONG CTH PD/McKEE ROAD IS ESTABLISHED IN DOC. 1368501.

PLE STATION OFFSET TABLE		
POINT	STATION	OFFSET
P170	119+98.59	93.66' L
P171	119+99.18	64.17' L
P172	119+60.15	92.90' L
P173	111+44.52	46.98' L
P174	113+87.41	47.00' L
P175	119+22.43	47.00' L
P176	119+17.24	41.76' L

SIDEWALK PLE - COURSE TABLE		
COURSE	BEARING	DISTNACE
109-P173	N10° 10' 39"W	1.67'
P173-P174	S89° 08' 48"E	242.81'
P174-P175	S88° 46' 34"E	535.32'
P175-P176	S45° 54' 37"W	7.37'
P176-110	N89° 05' 23"W	729.96'
110-109	N80° 44' 27"W	43.09'

BIKE PATH - PLE COURSE TABLE		
COURSE	BEARING	DISTANCE
111-P170	N00° 05' 06"E	51.46'
P170-P171	S00° 05' 06"W	29.50'
P171-P172	SEE CURVE DATA	
P172-P170	S89° 54' 54"E	38.45'

CURVE P171-P172
L=48.86'
LC=48.46'
LCB=N52°24'51"W
R=110.00'

TLE STATION OFFSET TABLE		
POINT	STATION	OFFSET
T150	111+40.24	68.09' L
T151	119+43.53	118.56' L
T152	119+98.09	118.86' L
T153	120+02.23	152.04' R
T154	119+70.78	106.83' R
T155	110+00.00	109.94' R
T156	110+00.00	89.00' R
T157	111+43.12	54.08' L
T158	119+32.16	56.84' L
T159	119+49.76	74.63' L
T160	119+22.65	116.47' L
T161	107+13.03	89.00' R
T162	106+64.15	95.87' R

STATION OFFSET TABLE		
POINT	STATION	OFFSET
100	120+00.80	17.79' R
101	120+01.39	72.79' R
102	106+63.91	76.04' R
103	106+63.22	21.04' R
104	106+62.62	38.87' L
105	110+21.74	38.86' L
106	110+64.21	45.22' L
107	110+70.98	84.50' L
108	111+36.98	84.53' L
109	111+44.76	45.31' L
110	111+87.54	39.06' L
111	119+99.61	42.21' L
112	114+07.42	79.18' R

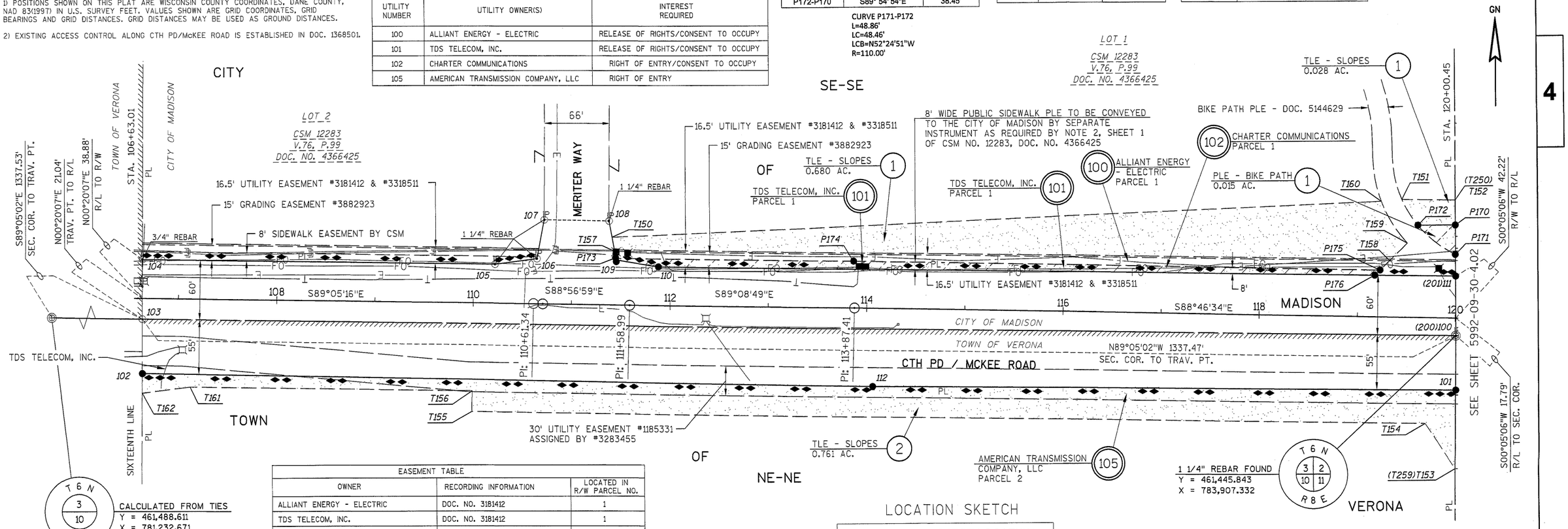
Office of Register of Deeds
Dane County, Wisconsin
Received for Record August 26
20 16 at 1:38 o'clock P M
and recorded in vol. 60-062A
of Plats on page 330-331
Kristi Chlebowski by Mazon Otty Deputy
Register

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 5992-09-30 - 4.01
SHEET 1 OF 2

Doc# 5262507

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
100	ALLIANT ENERGY - ELECTRIC	RELEASE OF RIGHTS/CONSENT TO OCCUPY
101	TDS TELECOM, INC.	RELEASE OF RIGHTS/CONSENT TO OCCUPY
102	CHARTER COMMUNICATIONS	RIGHT OF ENTRY/CONSENT TO OCCUPY
105	AMERICAN TRANSMISSION COMPANY, LLC	RIGHT OF ENTRY



EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL NO.
ALLIANT ENERGY - ELECTRIC	DOC. NO. 3181412	1
TDS TELECOM, INC.	DOC. NO. 3181412	1
CHARTER COMMUNICATIONS	DOC. NO. 3318511	1
AMERICAN TRANSMISSION COMPANY, LLC	DOC. NO.'S 1185331 & 3283455	2

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, SEE SHEET 2 OF 2.

SCALE, FEET
0 50 100

HIGHWAY	BASIS
MERITER WAY	CSM 12283
CTH PD/McKEE ROAD	PREVIOUS PROJECT 1278, CSM 12283 & DOC. 3882923

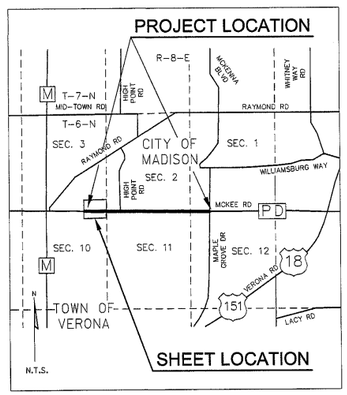
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTEREST TO CITY OF MADISON.
ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES
1	MERITER HOSPITAL, INC.	PLE,TLE	----	----	----	0.708	0.015
2	KAREN L. GODSHALL	TLE	----	----	----	0.761	----

COURSE TABLE		
COURSE	BEARING	DISTANCE
100-101	S00° 36' 55"W	55.00'
101-112	N89° 23' 34"W	594.01'
112-102	N88° 50' 14"W	743.09'
102-103	N00° 12' 06"E	55.00'
103-104	N00° 20' 07"E	59.92'
104-105	S89° 05' 09"E	359.12'
105-106	N82° 25' 46"E	43.05'
106-107	N10° 49' 47"E	39.86'
107-108	S88° 58' 23"E	66.00'
108-109	S10° 10' 39"E	39.98'
109-110	S80° 44' 27"E	43.09'
110-111	S89° 05' 23"E	812.33'
111-100	S00° 05' 06"W	60.01'

LOCATION SKETCH



PI=110+61.34
Y=461,481.923
X=782,968.427
DELTA=00°08'17" RT

PI=111+58.99
Y=461,480.133
X=783,066.064
DELTA=00°11'50" LT

PI=113+87.41
Y=461,476.731
X=783,294.463
DELTA=00°22'15" RT

APPROVED FOR CITY OF MADISON

RELOCATION ORDER APPROVED BY THE COMMON COUNCIL 07-19-2016
8/26/16 DATE — Lauren M. Schmidt FOR: CITY CLERK

RELOCATION ORDER APPROVED BY THE PLAN COMMISSION 07-11-2016
8.26.16 DATE — EXECUTIVE SECRETARY

RELOCATION ORDER APPROVED BY THE BOARD OF PUBLIC WORKS 07-06-2016
8/26/2016 DATE — Michael R Dailey FOR EXECUTIVE SECRETARY

KL Engineering
[A] Better Experience

I, THOMAS J. HANSEN, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 62.22 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 5992-09-30-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

AUGUST 26, 2016
THOMAS J. HANSEN — DATE
AGENT FOR KL ENGINEERING, INC.
P.L.S. NUMBER 2033

WISCONSIN — THOMAS J. HANSEN S-2033 MADISON, WISCONSIN — LAND SURVEYOR

389

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\RW\040101-RP.DWG
APPRAISAL PLAT DATE : AUGUST 26, 2016
PLOT DATE : 8/25/2016 11:47 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

KL Engineering
[A] Better Experience

I, THOMAS J. HANSEN, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 62.22 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 5992-09-30-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN — THOMAS J. HANSEN S-2033 MADISON, WISCONSIN — LAND SURVEYOR

AUGUST 29, 2016
THOMAS J. HANSEN — DATE
AGENT FOR KL ENGINEERING, INC.
P.L.S. NUMBER 2033

APPROVED FOR CITY OF MADISON

RELOCATION ORDER APPROVED BY THE COMMON COUNCIL 07-19-2016

08/30/16 — Thomas Lynch for — DATE — CITY CLERK

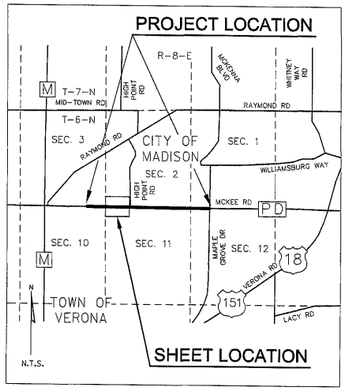
RELOCATION ORDER APPROVED BY THE PLAN COMMISSION 07-11-2016

30 Aug 2016 — DATE — EXECUTIVE SECRETARY

RELOCATION ORDER APPROVED BY THE BOARD OF PUBLIC WORKS 07-06-2016

8/30/2016 — DATE — EXECUTIVE SECRETARY

LOCATION SKETCH



TRANSPORTATION PROJECT PLAT NO: 5992-09-30 - 4.02

THAT PART OF THE NW 1/4 - NW 1/4 OF SECTION 11, TOWN OF VERONA; THAT PART OF THE NW 1/4 - NW 1/4 OF SECTION 11; PART OF OUTLOT 11, ICE AGE FALLS SUBDIVISION IN THE SW 1/4 - SW 1/4, SECTION 2; CITY OF MADISON, ALL IN T6N, R8E, DANE COUNTY, WISCONSIN.

RELOCATION ORDER CITY OF MADISON, McKEE ROAD, MERITER WAY - MAPLE GROVE DRIVE

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF MADISON DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 62.22, WISCONSIN STATUTES, THE CITY OF MADISON HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MADISON, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

EASEMENT TABLE

OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL NO.
TDS TELECOM, INC.	PLATTED UTILITY EASEMENT DOC. NO. 3680382	4
ALLIANT ENERGY - ELECTRIC	PLATTED UTILITY EASEMENT DOC. NO. 3680382	4
TDS TELECOM, INC.	NO EASEMENT OF RECORD FOUND	6
AMERICAN TRANSMISSION COMPANY, LLC	DOC. NO.'S 1185330 & 3283455	3
AMERICAN TRANSMISSION COMPANY, LLC	DOC. NO.'S 1185329 & 3283455	6
WISCONSIN POWER & LIGHT - ELECTRIC	DOC. NO. 2290972	6

Office of Register of Deeds
Dane County, Wisconsin
Received for Record 31 August
20 16 at 8:46 o'clock A M
and recorded in vol. 60-062B
of Plats on page 332-333
Kristi Chlebowski by Deb J Rapp
Register

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 5992-09-30 - 4.02
SHEET 1 OF 2

SCALE, FEET
0 50 100

SEE SHEET 2 OF 2 FOR COURSE TABLES, OFFSET TABLES AND CURVE INFORMATION.

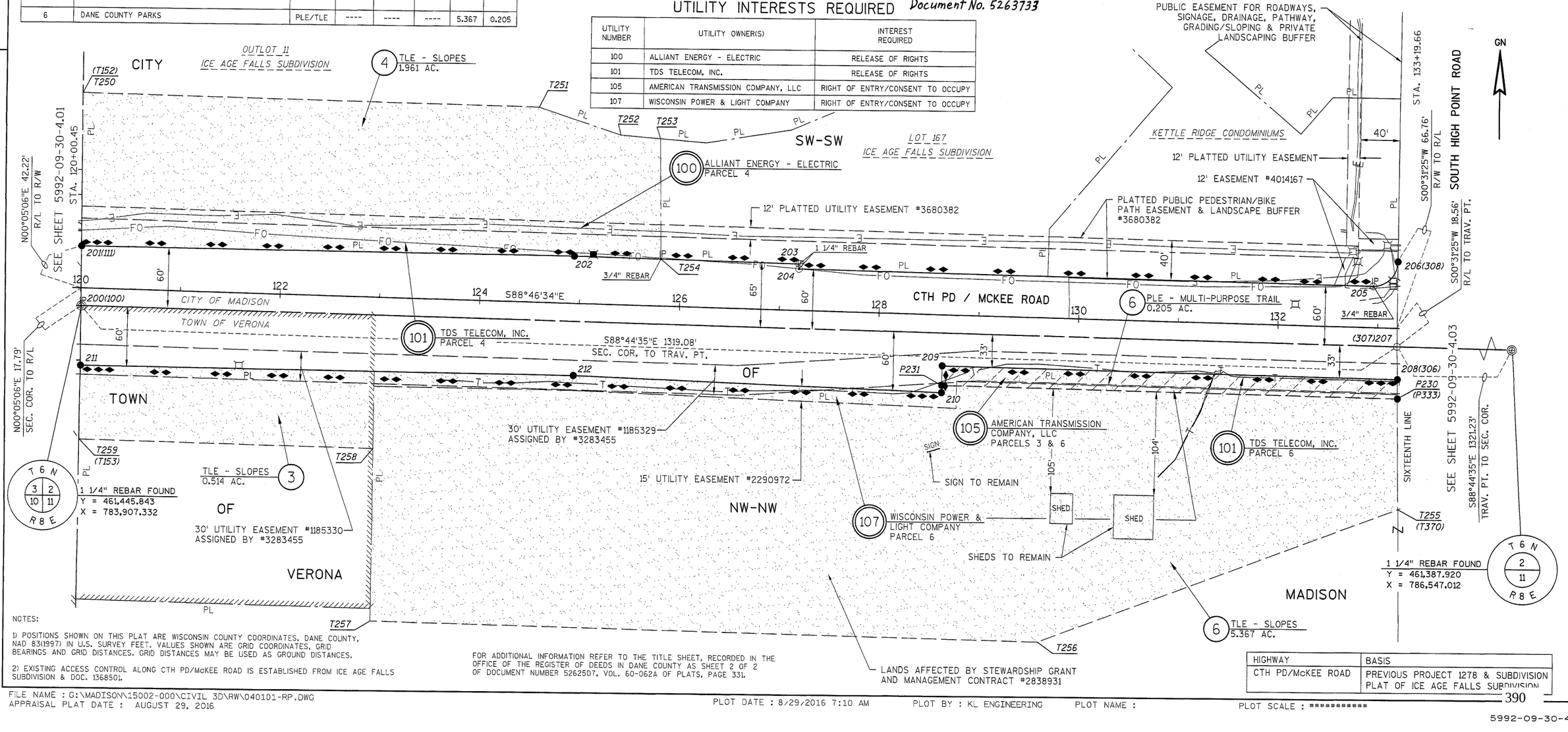
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTEREST TO CITY OF MADISON
ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES
3	PHILIP F. & DARRELL W. GREENWELL	TLE	----	----	----	0.514	----
4	DANE COUNTY PARKS	TLE	----	----	----	1.961	----
6	DANE COUNTY PARKS	PLE/TLE	----	----	----	5.367	0.205

UTILITY INTERESTS REQUIRED Document No. 5263733

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
100	ALLIANT ENERGY - ELECTRIC	RELEASE OF RIGHTS
101	TDS TELECOM, INC.	RELEASE OF RIGHTS
105	AMERICAN TRANSMISSION COMPANY, LLC	RIGHT OF ENTRY/CONSENT TO OCCUPY
107	WISCONSIN POWER & LIGHT COMPANY	RIGHT OF ENTRY/CONSENT TO OCCUPY



NOTES:

1) POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD 83(1997) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

2) EXISTING ACCESS CONTROL ALONG CTH PD/McKEE ROAD IS ESTABLISHED FROM ICE AGE FALLS SUBDIVISION & DOC. 1368501.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN DANE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 5262507, VOL. 60-062A OF PLATS, PAGE 331.

HIGHWAY	BASIS
CTH PD/McKEE ROAD	PREVIOUS PROJECT 1278 & SUBDIVISION PLAT OF ICE AGE FALLS SUBDIVISION

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\RW\040101-RP.DWG
APPRAISAL PLAT DATE : AUGUST 29, 2016
PLOT DATE : 8/29/2016 7:10 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

4

SHEET 2 OF 2 FOR COURSE TABLES, OFFSET TABLES AND CURVE INFORMATION.

STATION OFFSET TABLE		
POINT	STATION	OFFSET
200	120+00.80	17.79' R
201	119+99.61	42.21' L
202	124+93.58	47.53' L
203	127+18.58	46.81' L
204	127+18.58	41.79' L
205	132+93.83	41.45' L
206	133+18.85	66.76' L
207	133+19.89	18.55' R
208	133+20.85	51.55' R
209	128+64.24	51.29' R
210	128+64.46	78.29' R
211	120+01.44	77.79' R
212	124+95.41	72.48' R

COURSE TABLE		
COURSE	BEARING	DISTANCE
200-201	N00° 05' 06"E	60.01'
201-202	S89° 23' 34"E	494.00'
202-203	S88° 35' 35"E	225.00'
203-204	S01° 15' 25"W	5.02'
204-205	S88° 44' 35"E	575.25'
205-206	SEE CURVE DATA	
206-207	S00° 31' 28"W	85.32'
207-208	S00° 26' 25"E	33.01'
208-209	N88° 44' 35"W	456.61'
209-210	S00° 45' 19"W	27.00'
210-212	N87° 52' 24"W	369.09'
212-211	N89° 23' 34"W	494.00'
211-200	N00° 36' 55"E	60.00'

CURVE 205-206
L=39.59'
LC=35.58'
LCB=N45°53'27"E
R=25.00'

TLE STATION OFFSET TABLE		
POINT	STATION	OFFSET
T250	119+96.55	196.43' L
T251	124+54.00	196.17' L
T252	125+36.29	170.64' L
T253	125+76.02	168.28' L
T254	125+80.00	47.31' L
T255	133+24.64	182.21' R
T256	129+66.95	326.11' R
T257	122+99.23	325.72' R
T258	122+97.39	152.21' R
T259	120+02.23	152.04' R

PLE STATION OFFSET TABLE		
POINT	STATION	OFFSET
P230	133+21.41	71.00' R
P231	128+64.40	71.00' R

PLE COURSE TABLE		
COURSE	BEARING	DISTANCE
208-P230	S00° 26' 25"E	19.45'
P230-P231	N88° 46' 34"W	457.01'
P231-209	N00° 45' 19"E	19.71'
209-208	S88° 44' 35"E	456.61'

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\RW\040101-RP.DWG
APPRAISAL PLAT DATE : AUGUST 29, 2016
PLOT DATE : 8/26/2016 3:34 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

KL Engineering
[A] Better Experience

I, THOMAS J. HANSEN, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 62.22 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 5992-09-30-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN · THOMAS J. HANSEN · S-2033 · MADISON, WISCONSIN · LAND SURVEYOR

THOMAS J. HANSEN — AUGUST 29, 2016 — DATE
AGENT FOR KL ENGINEERING, INC.
P.L.S. NUMBER 2033

APPROVED FOR CITY OF MADISON

RELOCATION ORDER APPROVED BY THE COMMON COUNCIL 07-19-2016

08/30/16 — DATE — Thomas Lonsdorf — CITY CLERK

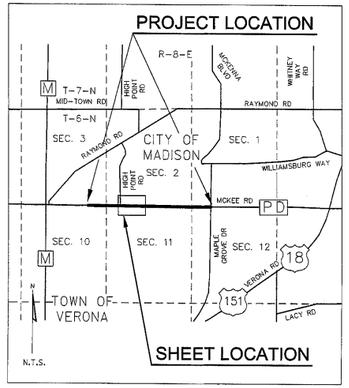
RELOCATION ORDER APPROVED BY THE PLAN COMMISSION 07-11-2016

30AUG2016 — DATE — EXECUTIVE SECRETARY

RELOCATION ORDER APPROVED BY THE BOARD OF PUBLIC WORKS 07-06-2016

8/30/16 — DATE — EXECUTIVE SECRETARY

LOCATION SKETCH



TRANSPORTATION PROJECT PLAT NO: 5992-09-30 - 4.03

THAT PART OF LOTS 1 & 37, ICE AGE RIDGE; LOCATED IN THE NE 1/4 - NW 1/4, PART OF THE NE 1/4 - NW 1/4 OF SECTION 11; PART OF STRATTON HILL CONDOMINIUM AND THAT PART OF LOT 1, LOT 18 & OUTLOT 3, STRATTON RIDGE; LOCATED IN THE SE 1/4 - SW 1/4, SECTION 2; ALL IN T6N, R8E, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER CITY OF MADISON, McKEE ROAD, MERITER WAY - MAPLE GROVE DRIVE

Document No. 5263734

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF MADISON DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 62.22, WISCONSIN STATUTES, THE CITY OF MADISON HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MADISON, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

PLE STATION OFFSET TABLE		
POINT	STATION	OFFSET
P330	139+81.61	89.85' R
P331	139+62.17	89.85' R
P332	139+62.17	71.00' R
P333	133+21.41	71.00' R

Office of Register of Deeds
Dane County, Wisconsin
Received for Record 31 August
20 16 at 8:46 o'clock A M
and recorded in vol. 60-062B
of Plats on page 334-335
Kristi Chlebowski by Ashley M Pfaff Deputy
Register

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 5992-09-30 - 4.03
SHEET 1 OF 2

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
100	ALLIANT ENERGY - ELECTRIC	RIGHT OF ENTRY
101	TDS TELECOM, INC.	RIGHT OF ENTRY
102	CHARTER COMMUNICATIONS, INC.	RIGHT OF ENTRY
103	CITY OF MADISON - WATER UTILITY	RIGHT OF ENTRY
104	MADISON METROPOLITAN SEWERAGE DISTRICT	RIGHT OF ENTRY
105	AMERICAN TRANSMISSION COMPANY, LLC.	RIGHT OF ENTRY/CONSENT TO OCCUPY
109	MIDLAND BUILDERS, INC.	RIGHT OF ENTRY

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTEREST TO CITY OF MADISON
ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES
6	DANE COUNTY PARKS	PLE/TLE	----	----	----	0.753	0.300
7	STRATTON HILL CONDOMINIUM ASSOCIATION	TLE	----	----	----	0.384	----
8	KRANTZ FAMILY, LLC	TLE	----	----	----	0.049	----
9	SCOTT A. GRIFFIN	TLE	----	----	----	0.003	----
10	CITY OF MADISON STORM WATER UTILITY #533	TLE	----	----	----	9.110	----
11	CARL J. ALLEN	TLE	----	----	----	0.023	----

SCALE: FEET
0 50 100

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN DANE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 5262507, VOL. 60-062A OF PLATS, PAGE 331.

GN

TLE STATION OFFSET TABLE		
POINT	STATION	OFFSET
T350	133+96.95	250.68' L
T351	134+44.33	251.49' L
T352	134+47.18	62.16' L
T353	137+30.00	62.00' L
T354	137+75.81	71.19' L
T355	137+75.81	66.19' L
T356	138+41.81	66.15' L
T357	138+41.84	129.98' L
T358	138+56.46	129.97' L
T359	138+56.42	69.99' L
T360	139+24.94	41.10' L
T361	143+12.08	79.13' R
T362	142+82.07	115.01' R
T363	142+82.08	104.11' R
T365	139+98.52	78.95' R
T366	139+98.51	86.28' R
T367	139+81.56	86.27' R
T368	139+81.80	111.94' R
T369	135+00.00	111.66' R
T370	133+24.64	182.21' R
T371	144+70.99	40.78' L
T372	144+50.97	119.17' L
T373	140+73.50	578.25' L
T374	142+66.60	737.02' L
T375	144+60.56	501.13' L
T376	146+03.25	617.74' L
T377	146+34.74	680.41' L

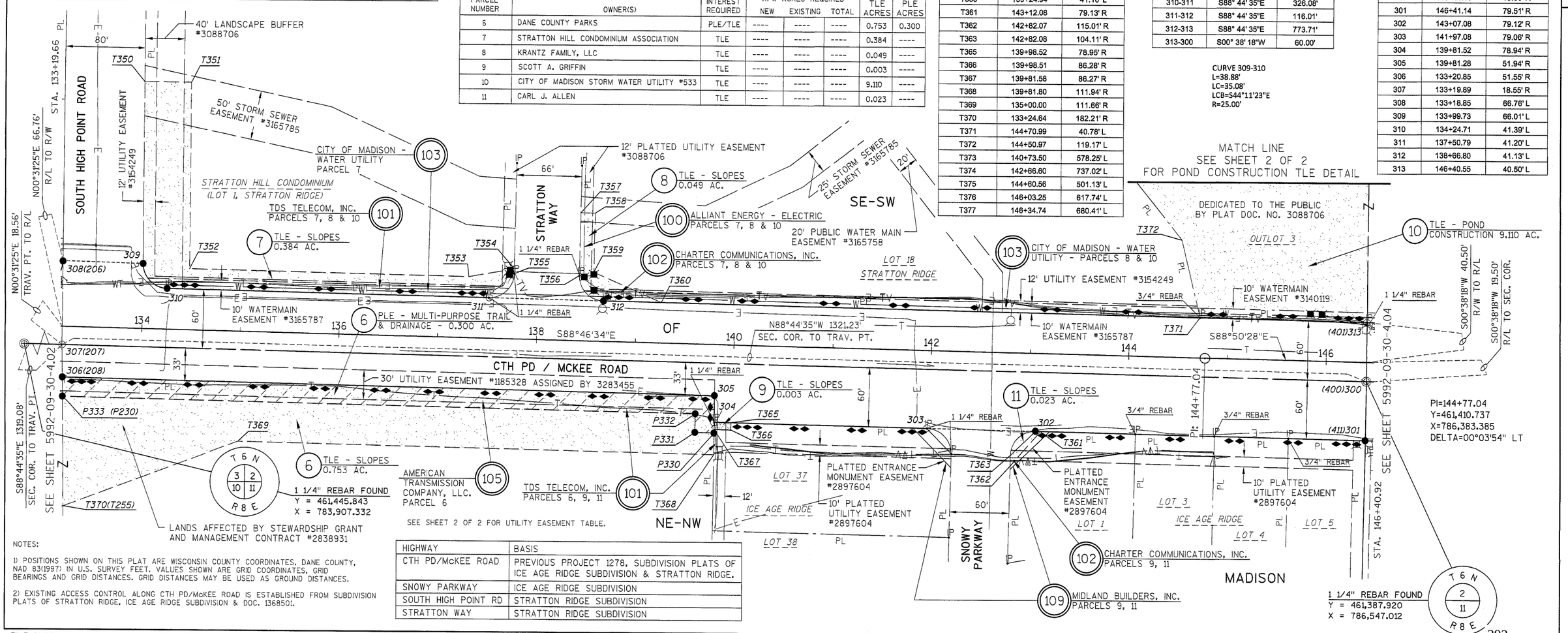
COURSE TABLE		
COURSE	BEARING	DISTANCE
300-301	S01° 07' 01"W	60.00'
301-302	N88° 44' 32"W	334.15'
302-303	N88° 44' 35"W	110.00'
303-304	N88° 44' 35"W	215.56'
304-305	N00° 43' 37"E	27.00'
305-306	N88° 44' 35"W	660.44'
306-307	N00° 26' 25"W	33.01'
307-308	N00° 31' 28"E	85.32'
308-309	S88° 14' 44"E	80.89'
309-310	SEE CURVE DATA	
310-311	S88° 44' 35"E	326.08'
311-312	S88° 44' 35"E	116.01'
312-313	S88° 44' 35"E	773.71'
313-300	S00° 38' 18"W	60.00'

CURVE 309-310
L=38.88'
LC=35.08'
LCB=S44°11'23"E
R=25.00'

PLE COURSE TABLE		
COURSE	BEARING	DISTANCE
306-305	S88° 44' 35"E	660.44'
305-P330	S00° 43' 37"W	37.92'
P330-P331	N88° 46' 34"W	19.44'
P331-P332	N01° 13' 26"E	18.85'
P332-P333	N88° 44' 34"W	640.76'
P333-306	N00° 26' 25"W	19.45'

STATION OFFSET TABLE		
POINT	STATION	OFFSET
300	146+41.10	19.50' R
301	146+41.14	79.51' R
302	143+07.08	79.12' R
303	141+97.08	79.06' R
304	139+81.52	78.94' R
305	139+81.28	51.94' R
306	133+20.85	51.55' R
307	133+19.89	18.55' R
308	133+18.85	66.76' L
309	133+99.73	66.01' L
310	134+24.71	41.39' L
311	137+50.79	41.20' L
312	138+66.80	41.13' L
313	146+40.55	40.50' L

MATCH LINE
SEE SHEET 2 OF 2
FOR POND CONSTRUCTION TLE DETAIL



NOTES:

1) POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD 83(1997) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

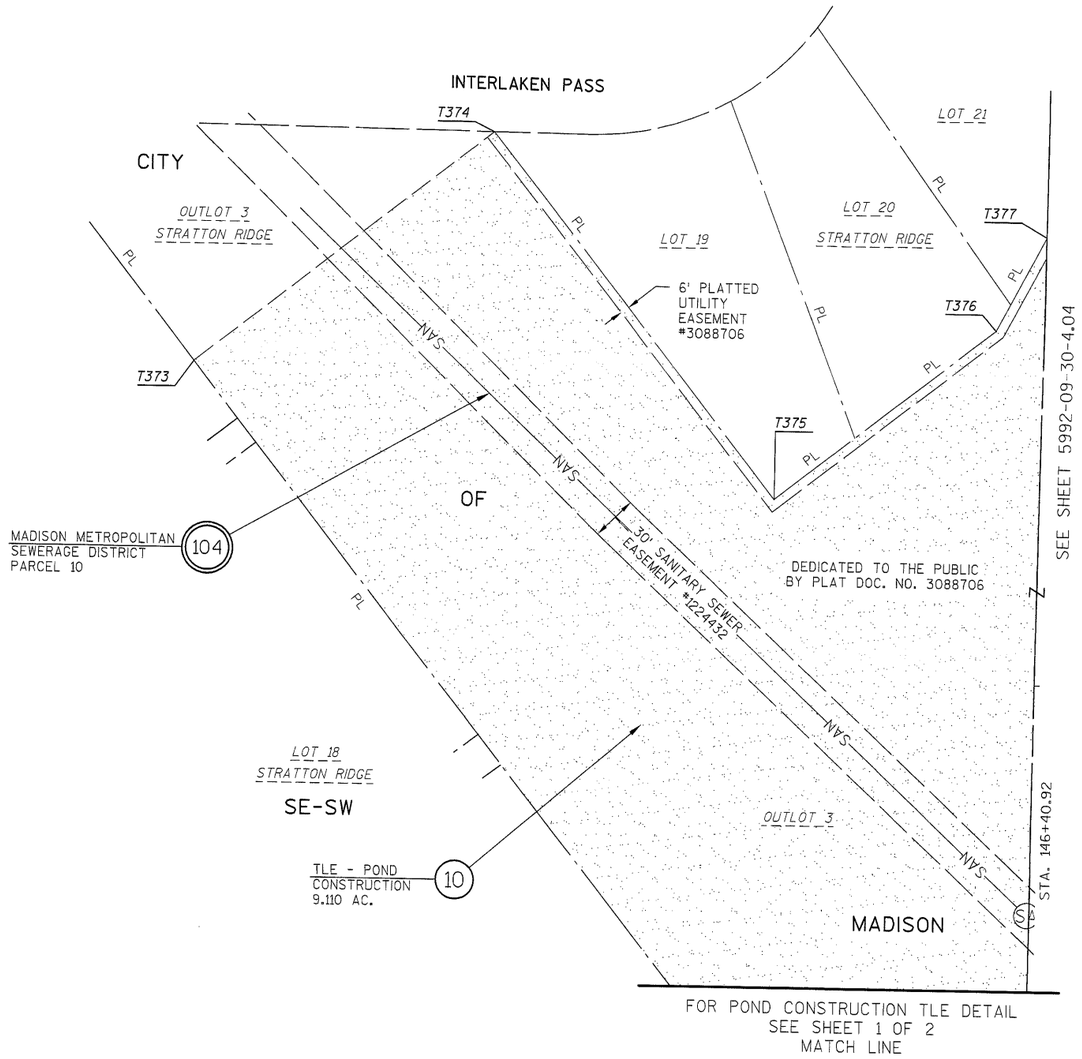
2) EXISTING ACCESS CONTROL ALONG CTH PD/McKEE ROAD IS ESTABLISHED FROM SUBDIVISION PLATS OF STRATTON RIDGE, ICE AGE RIDGE SUBDIVISION & DOC. 1368501.

HIGHWAY	BASIS
CTH PD/McKEE ROAD	PREVIOUS PROJECT 1278, SUBDIVISION PLATS OF ICE AGE RIDGE SUBDIVISION & STRATTON RIDGE.
SNOWY PARKWAY	ICE AGE RIDGE SUBDIVISION
SOUTH HIGH POINT RD	STRATTON RIDGE SUBDIVISION
STRATTON WAY	STRATTON RIDGE SUBDIVISION

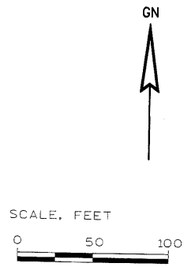
TRANSPORTATION PROJECT PLAT NO: 5992-09-30 - 4.03

RELOCATION ORDER CITY OF MADISON, McKEE ROAD, MERITER WAY - MAPLE GROVE DRIVE

4



EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL NO.
ALLIANT ENERGY - ELECTRIC	UTILITY EASEMENTS DOC. NO.'S 3088706 & 3154249	7, 8
TDS TELECOM, INC.	UTILITY EASEMENTS DOC. NO.'S 3088706 & 3154249	7, 8
CHARTER COMMUNICATIONS, INC.	UTILITY EASEMENTS DOC. NO.'S 3088706 & 3154249	7, 8
TDS TELECOM, INC.	NO EASEMENT OF RECORD FOUND	6, 10
CHARTER COMMUNICATIONS, INC.	NO EASEMENT OF RECORD FOUND	10
TDS TELECOM, INC.	PLATTED UTILITY EASEMENT DOC. NO. 2677604	9, 11
CHARTER COMMUNICATIONS, INC.	PLATTED UTILITY EASEMENT DOC. NO. 2677604	9, 11
CITY OF MADISON - WATER UTILITY	DOC. NO.'S 3165787 & 3140119	7, 8 & 10
MADISON MUNICIPAL SEWERAGE DISTRICT	DOC. NO. 1224432	10
AMERICAN TRANSMISSION COMPANY, LLC	DOC. NO.'S 1185328 & 3283455	6
MIDLAND BUILDERS, INC.	PLATTED ENTRANCE MONUMENT EASEMENT DOC. NO. 2877604	9, 11
ALLIANT ENERGY - ELECTRIC	NO EASEMENT OF RECORD FOUND	10



SHEET 2 OF 2 FOR POND CONSTRUCTION TLE DETAIL AND EASEMENT TABLE.

4

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\RW\040101-RP.DWG
APPRAISAL PLAT DATE : AUGUST 29, 2016

PLOT DATE : 8/26/2016 3:36 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

TPP NUMBER 5992-09-30 - 4.03
SHEET 2 OF 2

5992-09-30-4.03

TRANSPORTATION PROJECT PLAT NO: 5992-09-30 - 4.04

Document No. 5263735

THAT PART OF OUTLOTS 16 & 19, RUDI ADDITION TO WESTHAVEN TRAILS AND PART OF LOT 1, CSM 6994, (RECORDED IN V. 35, P. 107 AS DOC 2432424), LOCATED IN THE SW 1/4 - SE 1/4 OF SECTION 2; THAT PART OF OUTLOT 1 & LOT 5, COUNTRY GROVE AND LOTS 277 & 278, TIMBERWOOD ADDITION TO COUNTRY GROVE, LOCATED IN THE NW 1/4 - NE 1/4 OF SECTION 11; ALL IN T6N, R8E, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER CITY OF MADISON, McKEE ROAD, MERITER WAY - MAPLE GROVE DRIVE

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF MADISON DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 62.22, WISCONSIN STATUTES, THE CITY OF MADISON HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MADISON, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

KL Engineering
[A] Better Experience

I, THOMAS J. HANSEN, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 62.22 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 5992-09-30-4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN — THOMAS J. HANSEN S-2033 MADISON, WISCONSIN — LAND SURVEYOR

Thomas J. Hansen — AUGUST 29, 2016
THOMAS J. HANSEN — DATE
AGENT FOR KL ENGINEERING, INC.
P.L.S. NUMBER 2033

APPROVED FOR CITY OF MADISON

RELOCATION ORDER APPROVED BY THE COMMON COUNCIL 07-19-2016
08/30/16 — Thomas Lund Sr.
DATE — CITY CLERK

RELOCATION ORDER APPROVED BY THE PLAN COMMISSION 07-11-2016
30Aug2016 — EXECUTIVE SECRETARY
DATE

RELOCATION ORDER APPROVED BY THE BOARD OF PUBLIC WORKS 07-06-2016
8/30/2016 — EXECUTIVE SECRETARY
DATE

Office of Register of Deeds
Dane County, Wisconsin
Received for Record 31 August 20 16 at 8:46 o'clock A M
and recorded in vol. 60-062B of Plats on page 331-337
Kristi Chlebowski by Jeff Pfaff Deputy
Register

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 5992-09-30 - 4.04
SHEET 1 OF 2

SCALE, FEET
0 50 100

GN

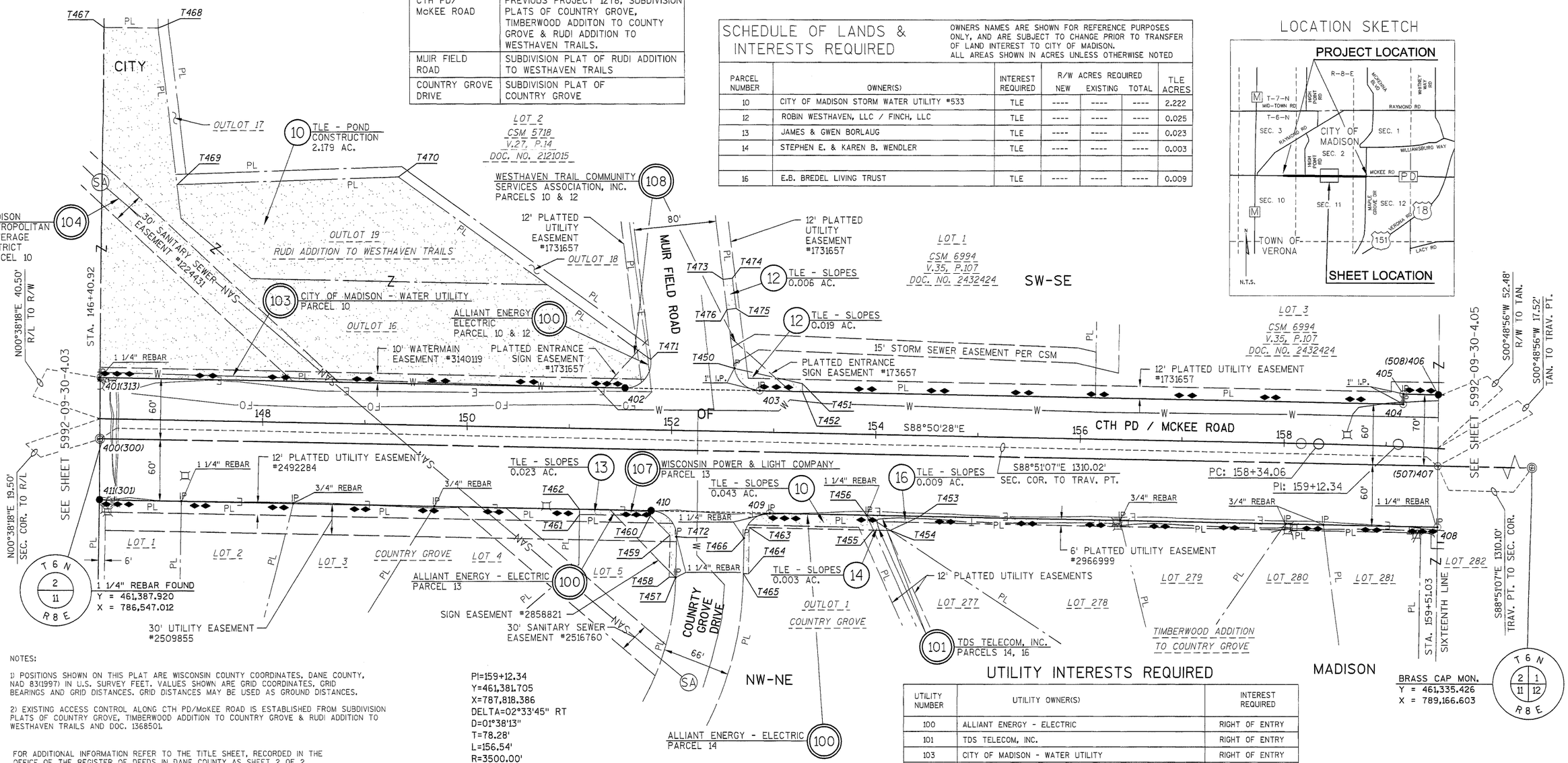
HIGHWAY	BASIS
CTH PD/ McKEE ROAD	PREVIOUS PROJECT 1278, SUBDIVISION PLATS OF COUNTRY GROVE, TIMBERWOOD ADDITON TO COUNTY GROVE & RUDI ADDITION TO WESTHAVEN TRAILS.
MUIR FIELD ROAD	SUBDIVISION PLAT OF RUDI ADDITION TO WESTHAVEN TRAILS
COUNTRY GROVE DRIVE	SUBDIVISION PLAT OF COUNTRY GROVE

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTEREST TO CITY OF MADISON.
ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
10	CITY OF MADISON STORM WATER UTILITY #533	TLE	----	----	----	2.222
12	ROBIN WESTHAVEN, LLC / FINCH, LLC	TLE	----	----	----	0.025
13	JAMES & GWEN BORLAUG	TLE	----	----	----	0.023
14	STEPHEN E. & KAREN B. WENDLER	TLE	----	----	----	0.003
16	E.B. BREDEL LIVING TRUST	TLE	----	----	----	0.009

LOCATION SKETCH



NOTES:

1) POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD 83(1997) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

2) EXISTING ACCESS CONTROL ALONG CTH PD/McKEE ROAD IS ESTABLISHED FROM SUBDIVISION PLATS OF COUNTRY GROVE, TIMBERWOOD ADDITION TO COUNTRY GROVE & RUDI ADDITION TO WESTHAVEN TRAILS AND DOC. 1368501.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN DANE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 5262507, VOL. 60-062A OF PLATS, PAGE 331.

SEE SHEET 2 OF 2 FOR COURSE TABLES, OFFSET TABLES AND EASEMENT TABLE INFORMATION.

PI=159+12.34
Y=461,381.705
X=787,818.386
DELTA=02°33'45" RT
D=01°38'13"
T=78.28'
L=156.54'
R=3500.00'
PC=158+34.06
PCC=159+90.60

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
100	ALLIANT ENERGY - ELECTRIC	RIGHT OF ENTRY
101	TDS TELECOM, INC.	RIGHT OF ENTRY
103	CITY OF MADISON - WATER UTILITY	RIGHT OF ENTRY
104	MADISON METROPOLITIAN SEWERAGE DISTRICT	RIGHT OF ENTRY
107	WISCONSIN POWER & LIGHT COMPANY	RIGHT OF ENTRY
108	WESTHAVEN TRAILS COMMUNITY SERVICES ASSOCIATION, INC.	RIGHT OF ENTRY

TRANSPORTATION PROJECT PLAT NO: 5992-09-30 - 4.04

RELOCATION ORDER CITY OF MADISON, McKEE ROAD, MERITER WAY - MAPLE GROVE DRIVE

4

4

SHEET 2 OF 2 FOR COURSE TABLES, OFFSET TABLES AND EASEMENT TABLE INFORMATION.

TLE STATION OFFSET TABLE		
POINT	STATION	OFFSET
T450	152+60.70	62.03' L
T451	153+27.45	48.44' L
T452	153+27.45	40.63' L
T453	154+44.16	79.36' R
T454	154+15.07	93.87' R
T455	153+98.98	93.87' R
T456	153+92.26	79.37' R
T457	152+06.29	144.33' R
T458	151+99.97	144.34' R
T459	151+99.96	103.09' R
T460	151+80.48	84.34' R
T461	151+10.95	84.35' R
T462	151+10.95	79.35' R
T463	152+77.28	93.91' R
T464	152+77.29	139.35' R
T465	152+72.29	139.35' R
T466	152+72.28	104.47' R
T467	146+37.43	384.51' L
T468	146+90.45	384.99' L
T469	147+11.95	231.34' L
T470	149+28.46	243.43' L
T471	151+78.81	69.18' L
T472	152+06.28	104.33' R
T473	152+48.03	149.29' L
T474	152+ 56.93	150.58' L
T475	152+61.24	120.91' L
T476	152+52.33	119.62' L

COURSE TABLE		
COURSE	BEARING	DISTANCE
400-401	N00° 38' 18"E	60.00'
401-402	S88° 51' 07"E	513.53'
402-403	S88° 51' 07"E	131.36'
403-404	S88° 51' 07"E	630.83'
404-405	N01° 08' 53"E	10.00'
405-406	S88° 51' 07"E	34.42'
406-407	S00° 48' 56"W	70.00'
407-408	S00° 49' 54"W	60.00'
408-409	N88° 51' 11"W	654.70'
409-410	N88° 48' 57"W	115.48'
410-411	N88° 51' 33"W	540.13'
411-400	N01° 07' 01"E	60.00'

STATION OFFSET TABLE		
POINT	STATION	OFFSET
400	146+41.10	19.50' R
401	146+40.55	40.50' L
402	151+54.08	40.60' L
403	152+85.44	40.62' L
404	159+16.28	40.74' L
405	159+16.27	50.74' L
406	159+48.99	52.66' L
407	159+51.72	17.28' R
408	159+54.13	77.24' R
409	152+96.76	79.39' R
410	151+81.27	79.34' R
411	146+41.14	79.51' R

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL NO.
ALLIANT ENERGY - ELECTRIC	PLATTED UTILITY EASEMENT DOC. NO.'S 1731657, 2492284 & 2966999	10, 12, 13 & 14
TDS TELECOM, INC.	PLATTED UTILITY EASEMENT DOC. NO.'S 2492284 & 2966999	14, 16
MADISON METROPOLITIAN SEWERAGE DISTRICT	DOC. NO. 1224431	10
CITY OF MADISON - WATER UTILITY	DOC. NO. 3140119	10
WISCONSIN POWER & LIGHT COMPANY	DOC. NO. 2509855	13
WESTHAVEN TRAILS COMMUNITY SERVICES ASSOCIATION, INC.	DOC. NO. 1731657	10, 12

TPP NUMBER 5992-09-30 - 4.04
SHEET 2 OF 2

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\RW\040101-RP.DWG
APPRAISAL PLAT DATE : AUGUST 29, 2016

PLOT DATE : 8/26/2016 3:37 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

TRANSPORTATION PROJECT PLAT NO: 5992-09-30 - 4.05

THAT PART OF LOTS 118 & 120, RUDI ADDITION TO WESTHAVEN TRAILS IN THE SE 1/4 - SE 1/4 OF SECTION 2, AND THAT PART OF LOTS 191 & 223, TANGLEWOOD ADDITION TO COUNTRY GROVE, IN THE NE 1/4 - NE 1/4 OF SECTION 11, ALL IN T6N, R8E, CITY OF MADISON, DANE COUNTY, WISCONSIN.

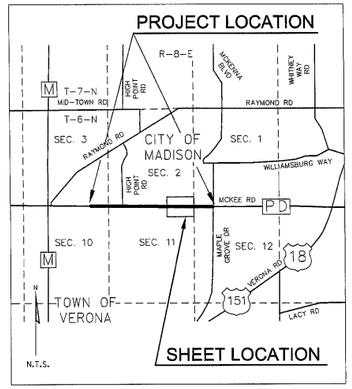
RELOCATION ORDER CITY OF MADISON, McKEE ROAD, MERITER WAY - MAPLE GROVE DRIVE

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF MADISON DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 62.22, WISCONSIN STATUTES, THE CITY OF MADISON HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MADISON, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

HIGHWAY	BASIS
CTH PD/McKEE ROAD	PREVIOUS PROJECT 1278, SUBDIVISION PLATS OF RUDI ADDITION TO WESTHAVEN TRAILS, TANGLEWOOD ADDITION TO COUNTRY GROVE, TIMBERWOOD ADDITION TO COUNTY GROVE, AARON ADDITION TO WESTHAVEN TRAILS, WESTHAVEN TRAILS & CSM 5990.
SILVERTON TRAIL	SUBDIVISION PLAT OF RUDI ADDITION TO WESTHAVEN TRAILS
TANGLEWOOD DRIVE	SUBDIVISION PLAT OF TANGLEWOOD ADDITION TO COUNTRY GROVE

LOCATION SKETCH



Document No. 5263736

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTEREST TO CITY OF MADISON. ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES
24	TIMBERWOOD HOMES, LLC	PLE/TLE	----	----	----	0.026	0.002

NOTES:

1) POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD 83(1997) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

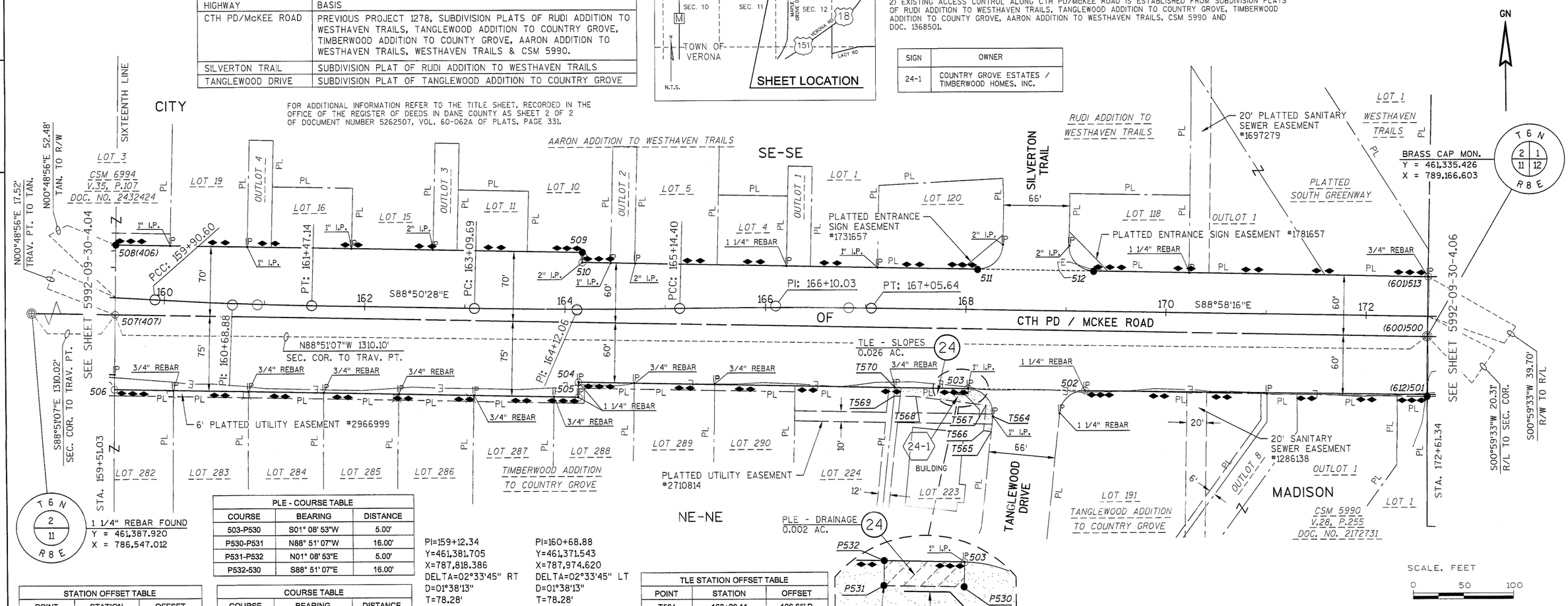
2) EXISTING ACCESS CONTROL ALONG CTH PD/McKEE ROAD IS ESTABLISHED FROM SUBDIVISION PLATS OF RUDI ADDITION TO WESTHAVEN TRAILS, TANGLEWOOD ADDITION TO COUNTRY GROVE, TIMBERWOOD ADDITION TO COUNTY GROVE, AARON ADDITION TO WESTHAVEN TRAILS, CSM 5990 AND DOC. 1368501.

SIGN	OWNER
24-1	COUNTRY GROVE ESTATES / TIMBERWOOD HOMES, INC.

Office of Register of Deeds
Dane County, Wisconsin
Received for Record 31 August
20 16 at 8:46 o'clock A M
and recorded in vol. 60-062B
of Plats on page 338
Kristi Chlebowski by Deb Hladky
Deputy
Register

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 5992-09-30 - 4.05

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN DANE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 5262507, VOL. 60-062A OF PLATS, PAGE 331.



T 6 N
2
11
R 8 E

1 1/4" REBAR FOUND
Y = 461,387.920
X = 786,547.012

PLE - COURSE TABLE		
COURSE	BEARING	DISTANCE
503-P530	S01° 08' 53"W	5.00'
P530-P531	N88° 51' 07"W	16.00'
P531-P532	N01° 08' 53"E	5.00'
P532-530	S88° 51' 07"E	16.00'

STATION OFFSET TABLE		
POINT	STATION	OFFSET
500	172+61.36	20.31' R
501	172+61.86	80.31' R
502	169+19.68	79.60' R
503	168+03.27	79.36' R
504	164+13.24	73.08' R
505	164+12.98	88.08' R
506	159+54.75	92.23' R
507	159+51.72	17.28' R
508	159+48.99	52.66' L
509	164+17.42	56.87' L
510	164+17.24	46.87' L
511	168+10.99	40.62' L
512	169+26.94	40.48' L
513	172+61.32	39.70' L

COURSE TABLE		
COURSE	BEARING	DISTANCE
500-501	S00° 32' 47"W	60.00'
501-502	N88° 51' 07"W	342.18'
502-503	N88° 51' 07"W	116.42'
503-504	N88° 51' 07"W	388.85'
504-505	S01° 08' 53"W	15.00'
505-506	N88° 51' 07"W	462.87'
506-507	N00° 49' 54"E	75.00'
507-508	N00° 48' 56"E	70.00'
508-509	S88° 51' 07"E	465.58'
509-510	S01° 08' 53"W	10.00'
510-511	S88° 51' 07"E	394.40'
511-512	S88° 54' 06"E	115.99'
512-513	S88° 50' 11"E	334.37'
513-500	S00° 59' 33"W	60.01'

PI=159+12.34
Y=461,381.705
X=787,818.386
DELTA=02°33'45" RT
D=01°38'13"
T=78.28'
L=156.54'
R=3500.00'
PC=158+34.06
PCC=159+90.60

PI=160+68.88
Y=461,371.543
X=787,974.620
DELTA=02°33'45" LT
D=01°38'13"
T=78.28'
L=156.54'
R=3500.00'
PCC=159+90.60
PT=161+47.14

PI=164+12.06
Y=461,364.601
X=788,317.752
DELTA=01°58'41" LT
D=00°57'58"
T=102.37'
L=204.71'
R=5930.00'
PC=163+09.69
PCC=165+14.40

PI=166+10.03
Y=461,367.431
X=788,515.727
DELTA=01°50'52" RT
D=00°57'58"
T=95.63'
L=191.24'
R=5930.00'
PCC=165+14.40
PT=167+05.64

TLE STATION OFFSET TABLE		
POINT	STATION	OFFSET
T564	168+28.11	106.65' R
T565	168+26.70	121.94' R
T566	168+18.92	121.23' R
T567	168+21.27	95.71' R
T568	167+50.92	87.86' R
T569	167+29.37	87.82' R
T570	167+30.17	79.21' R

PLE -STATION OFFSET TABLE		
POINT	STATION	OFFSET
P530	168+03.26	84.36' R
P531	167+87.25	84.32' R
P532	167+87.26	79.33' R

APPROVED FOR CITY OF MADISON

RELOCATION ORDER APPROVED BY THE COMMON COUNCIL 07-19-2016

08/30/16 DATE — Thomas Lynch for CITY CLERK

RELOCATION ORDER APPROVED BY THE PLAN COMMISSION 07-11-2016

30 Aug 2016 DATE — EXECUTIVE SECRETARY

RELOCATION ORDER APPROVED BY THE BOARD OF PUBLIC WORKS 07-06-2016

8/30/16 DATE — EXECUTIVE SECRETARY

KL Engineering [A] Better Experience

I, THOMAS J. HANSEN, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 62.22 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 5992-09-30-4.05 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN — THOMAS J. HANSEN S-2033 MADISON, WISCONSIN — LAND SURVEYOR

Thomas J. Hansen AUGUST 29, 2016
THOMAS J. HANSEN — DATE
AGENT FOR KL ENGINEERING, INC.
P.L.S. NUMBER 2033

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\RW\040101-RP.DWG
APPRAISAL PLAT DATE : AUGUST 29, 2016
PLOT DATE : 8/26/2016 3:38 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

5992-09-30-4.05

TRANSPORTATION PROJECT PLAT NO: 5992-09-30 - 4.06

Document No. 5263737

THAT PART OF LOTS 204 & 205, THIRD ADDITION TO THE DOWNS OF WEST MEADOWOOD, IN THE SW 1/4 - SW 1/4, SECTION 1, T6N, R8E, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER CITY OF MADISON, McKEE ROAD, MERITER WAY - MAPLE GROVE DRIVE

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF MADISON DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 62.22, WISCONSIN STATUTES, THE CITY OF MADISON

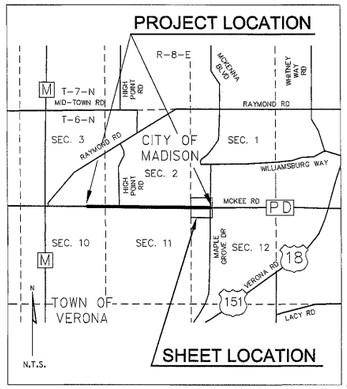
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MADISON, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTEREST TO CITY OF MADISON. ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
28	K&E ENTERPRISES	FEE/TLE	0.047	----	0.047	0.041

LOCATION SKETCH



COURSE TABLE		
COURSE	BEARING	DISTANCE
600-601	N00° 59' 33"E	60.01'
601-602	N89° 51' 10"E	1256.00'
602-603	N41° 48' 10"E	34.20'
603-604	N03° 04' 18"E	165.36'
604-605	N14° 08' 57"E	26.43'
605-606	S89° 02' 38"E	33.02'
606-607	S00° 57' 22"W	275.56'
607-608	S00° 34' 28"W	60.01'
608-609	S89° 51' 10"W	75.40'
609-610	S89° 51' 10"W	1007.54'
610-611	S89° 51' 20"W	115.94'
611-612	S89° 51' 12"W	124.67'
612-600	N00° 32' 47"E	60.00'

STATION OFFSET TABLE		
POINT	STATION	OFFSET
600	172+61.36	20.31' R
601	172+61.32	39.70' L
602	185+18.16	38.71' L
603	185+41.03	64.14' L
604	185+50.38	229.23' L
605	185+56.91	254.85' L
606	185+89.93	254.20' L
607	185+84.52	21.31' R
608	185+83.74	81.32' R
609	185+08.34	81.29' R
610	175+00.64	79.83' R
611	173+84.70	79.55' R
612	172+61.86	80.31 R'

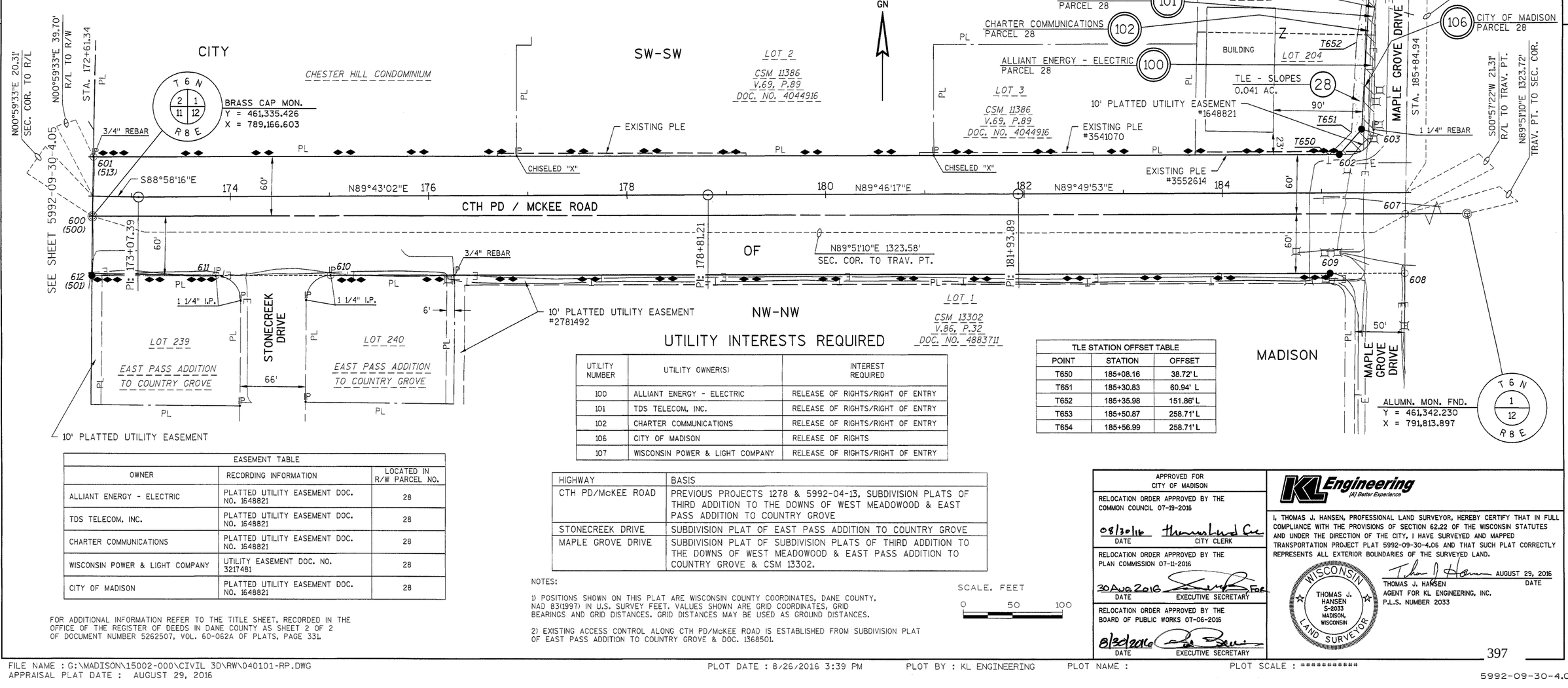
Office of Register of Deeds
Dane County, Wisconsin
Received for Record 31 August
2016 at 8:46 o'clock A M
and recorded in vol. 60-062B
of Plats on page 339
Kristi Chlebowski by [illegible] Deputy
Register

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 5992-09-30 - 4.06

PI=173+07.39
Y=461,354.909
X=789,212.991
DELTA=01°18'42" LT

PI=178+81.21
Y=461,357.741
X=789,786.805
DELTA=00°03'15" RT

PI=181+93.89
Y=461,358.989
X=790,099.488
DELTA=00°03'36" RT



UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
100	ALLIANT ENERGY - ELECTRIC	RELEASE OF RIGHTS/RIGHT OF ENTRY
101	TDS TELECOM, INC.	RELEASE OF RIGHTS/RIGHT OF ENTRY
102	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS/RIGHT OF ENTRY
106	CITY OF MADISON	RELEASE OF RIGHTS
107	WISCONSIN POWER & LIGHT COMPANY	RELEASE OF RIGHTS/RIGHT OF ENTRY

TLE STATION OFFSET TABLE		
POINT	STATION	OFFSET
T650	185+08.16	38.72' L
T651	185+30.83	60.94' L
T652	185+35.98	151.86' L
T653	185+50.87	258.71' L
T654	185+56.99	258.71' L

EASEMENT TABLE		
OWNER	RECORDING INFORMATION	LOCATED IN R/W PARCEL NO.
ALLIANT ENERGY - ELECTRIC	PLATTED UTILITY EASEMENT DOC. NO. 1648821	28
TDS TELECOM, INC.	PLATTED UTILITY EASEMENT DOC. NO. 1648821	28
CHARTER COMMUNICATIONS	PLATTED UTILITY EASEMENT DOC. NO. 1648821	28
WISCONSIN POWER & LIGHT COMPANY	UTILITY EASEMENT DOC. NO. 3217481	28
CITY OF MADISON	PLATTED UTILITY EASEMENT DOC. NO. 1648821	28

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN DANE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 5262507, VOL. 60-062A OF PLATS, PAGE 331.

HIGHWAY	BASIS
CTH PD/McKEE ROAD	PREVIOUS PROJECTS 1278 & 5992-04-13, SUBDIVISION PLATS OF THIRD ADDITION TO THE DOWNS OF WEST MEADOWOOD & EAST PASS ADDITION TO COUNTRY GROVE
STONECREEK DRIVE	SUBDIVISION PLAT OF EAST PASS ADDITION TO COUNTRY GROVE
MAPLE GROVE DRIVE	SUBDIVISION PLAT OF SUBDIVISION PLATS OF THIRD ADDITION TO THE DOWNS OF WEST MEADOWOOD & EAST PASS ADDITION TO COUNTRY GROVE & CSM 13302.

NOTES:

1) POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD 83(1997) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

2) EXISTING ACCESS CONTROL ALONG CTH PD/McKEE ROAD IS ESTABLISHED FROM SUBDIVISION PLAT OF EAST PASS ADDITION TO COUNTRY GROVE & DOC. 1368501.

SCALE, FEET
0 50 100

APPROVED FOR CITY OF MADISON

RELOCATION ORDER APPROVED BY THE COMMON COUNCIL 07-19-2016

08/30/16 DATE — CITY CLERK

RELOCATION ORDER APPROVED BY THE PLAN COMMISSION 07-11-2016

30 Aug 2016 DATE — EXECUTIVE SECRETARY

RELOCATION ORDER APPROVED BY THE BOARD OF PUBLIC WORKS 07-06-2016

8/30/2016 DATE — EXECUTIVE SECRETARY

KL Engineering [A] Better Experience

I, THOMAS J. HANSEN, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 62.22 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 5992-09-30-4.06 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN THOMAS J. HANSEN S-2033 MADISON, WISCONSIN LAND SURVEYOR

AUGUST 29, 2016
THOMAS J. HANSEN — DATE
AGENT FOR KL ENGINEERING, INC.
P.L.S. NUMBER 2033

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\RW\040101-RP.DWG
APPRAISAL PLAT DATE : AUGUST 29, 2016
PLOT DATE : 8/26/2016 3:39 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

BENCHMARKS

NO.	STATION	O/S	ELEV.	DESCRIPTION
63	114+32.65'WB'	15' RT	1048.74	CHIS SQ NE COR LPOL CONC BASE
64	110+36.47'WB'	63' LT	1038.41	CHIS SQ SE COR MERITER MCKEE SIGN

TREE CLEARING AND GRUBBING

MERITER HOSPITAL, INC.

N

MERITER HOSPITAL, INC.

RIP RAP

MERITER WAY

12+00'NW'

11+00'NW'

BEGIN CONSTRUCTION
STA. 111+25.00'WB'
MATCH EXISTING
SAWCUT REQ'D.

BM64

SLOPE INTERCEPT (TYP.)

ALLIANT ENERGY (ELECTRIC)

TLE

CHARTER (COMMUNICATIONS)

TBS (COMMUNICATIONS)

15-FT GRADING EASEMENT

PLE

R/W

MADISON GAS & ELECTRIC (GAS)

CAUTION

CTH PD WB

110+00'WB' 111+00'WB' 112+00'WB' 113+00'WB' 114+00'WB' 115+00'WB' 116+00'WB'

110+00'EB' 111+00'EB' 112+00'EB' 113+00'EB' 114+00'EB' 115+00'EB' 116+00'EB'

CTH PD EB

BM63

MATCH LINE STA. 116+00'WB'

GUY

R/W

TLE

ATC & ALLIANT ENERGY (ELECTRIC)

CAUTION

BEGIN PROJECT
STA. 110+63.07'WB'
MATCH EXISTING
SAWCUT REQ'D

BEGIN CONSTRUCTION
STA. 111+25.00'EB'
MATCH EXISTING
SAWCUT REQ'D.

KAREN L. GODSHALL

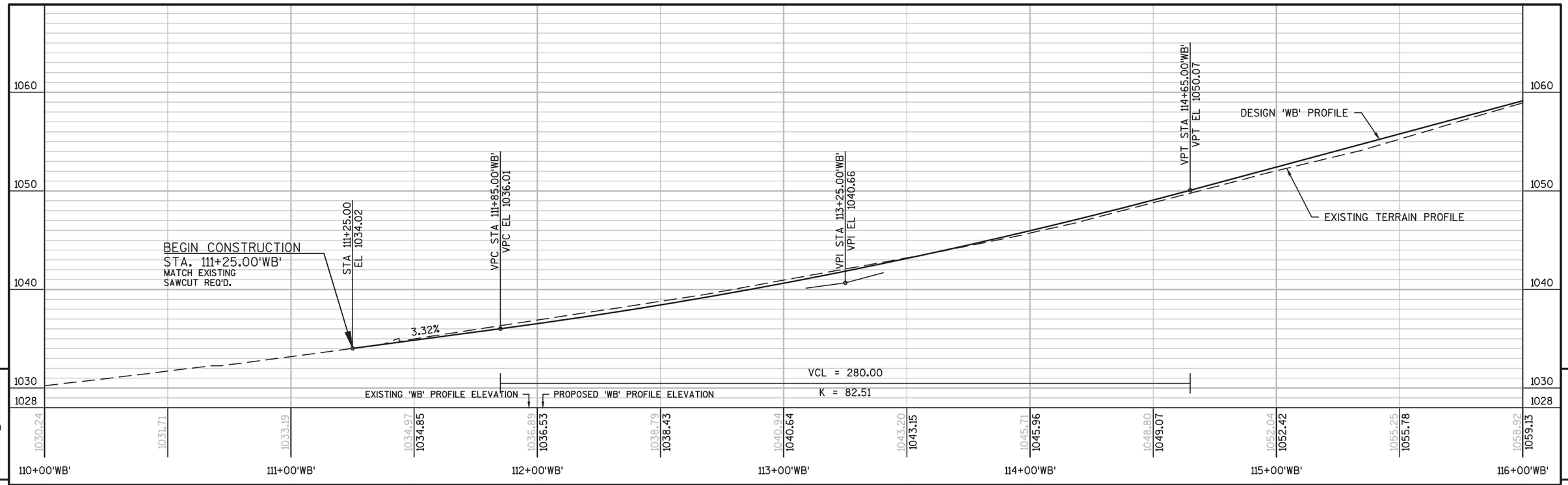
5

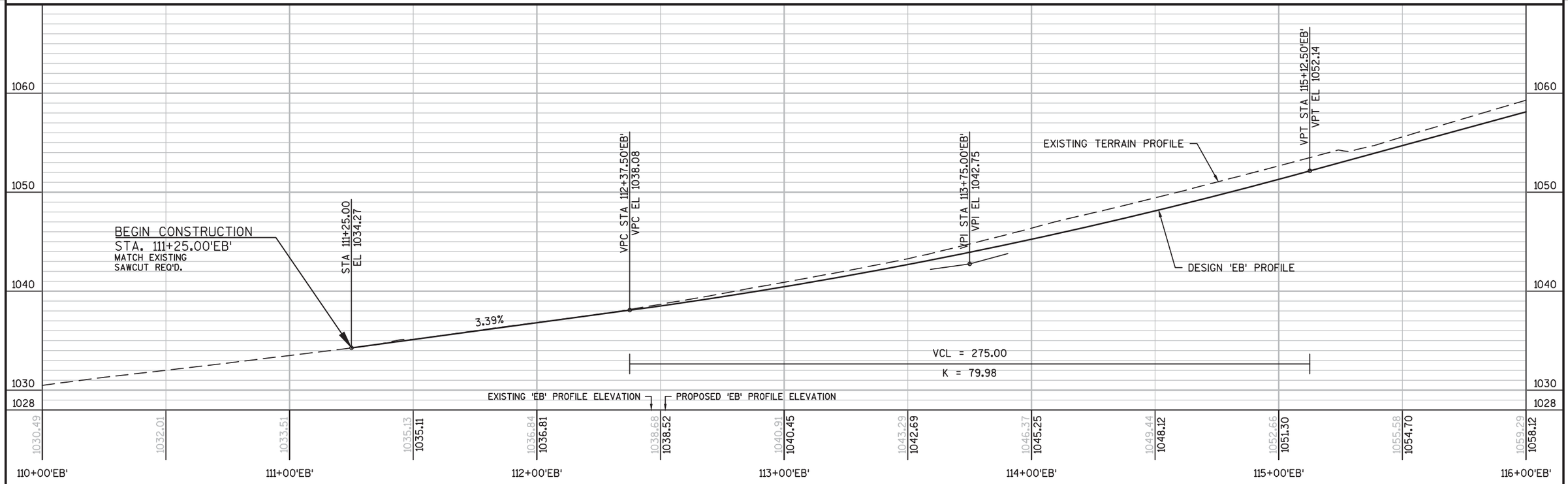
5

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN: CTH PD	SHEET 398	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050108

PLOT DATE : 10/17/2016 2:15 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********





PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PROFILE: CTH PD	SHEET 399	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050101

PLOT DATE : 10/17/2016 2:15 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 44

BENCHMARKS

NO.	STATION	O/S	ELEV.	DESCRIPTION
62	118+66.11'WB'	71' RT	1080.63	RR SPIKE IN PPOL #6-8-10 52/52

TREE CLEARING AND GRUBBING

N

MERITER HOSPITAL, INC.

DANE COUNTY PARKS

TLE

P.L.

PLE

ICE AGE JUNCTION PATH

216+00'AT'

215+00'AT'

33+00'ST'

ALLIANT ENERGY (ELECTRIC)

40' PUBLIC PEDESTRIAN/BIKE PATH EASEMENT

REMOVE BOULDER RETAINING WALL

R-13-310

CHARTER (COMMUNICATIONS)

SLOPE INTERCEPT (TYP.)

15-FT GRADING EASEMENT

R/W

CAUTION

MADISON GAS & ELECTRIC (GAS)

MATCH LINE STA. 116+00'WB'

117+00'WB'

118+00'WB'

119+00'WB'

120+00'WB'

121+00'WB'

122+00'WB'

117+00'FB'

118+00'FB'

119+00'FB'

120+00'FB'

121+00'FB'

CTH PD WB

CTH PD EB

MATCH LINE STA. 122+00'WB'

REMOVING SMALL PIPE CULVERTS

STA. 122+00'WB'
CONSTRUCT P.E.

STA. 120+29'EB'
REMOVE P.E.

BM62

ATC & ALLIANT ENERGY (ELECTRIC)

CAUTION

TLE

LANDMARK REFERENCE MONUMENT

T 6 N
3 2
10 11
R 8 E

KAREN L. GODSHALL

11+00'DW'

12+00'DW'

DRIVEWAY 122+00'DW'

TREES TO REMAIN

PHILIP F. GREENWELL
DARRELL W. GREENWELL

P.L.

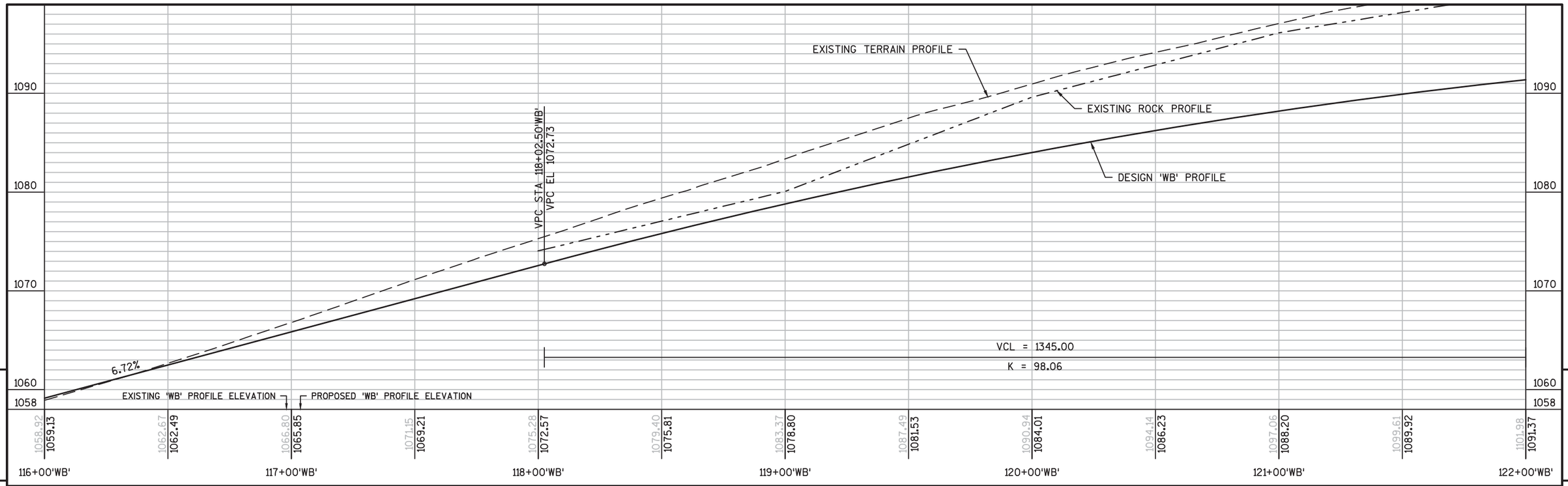
BEGIN CONSTRUCTION
STA. 10+22.21'DW'
MATCH EXISTING
SAWCUT REQ'D

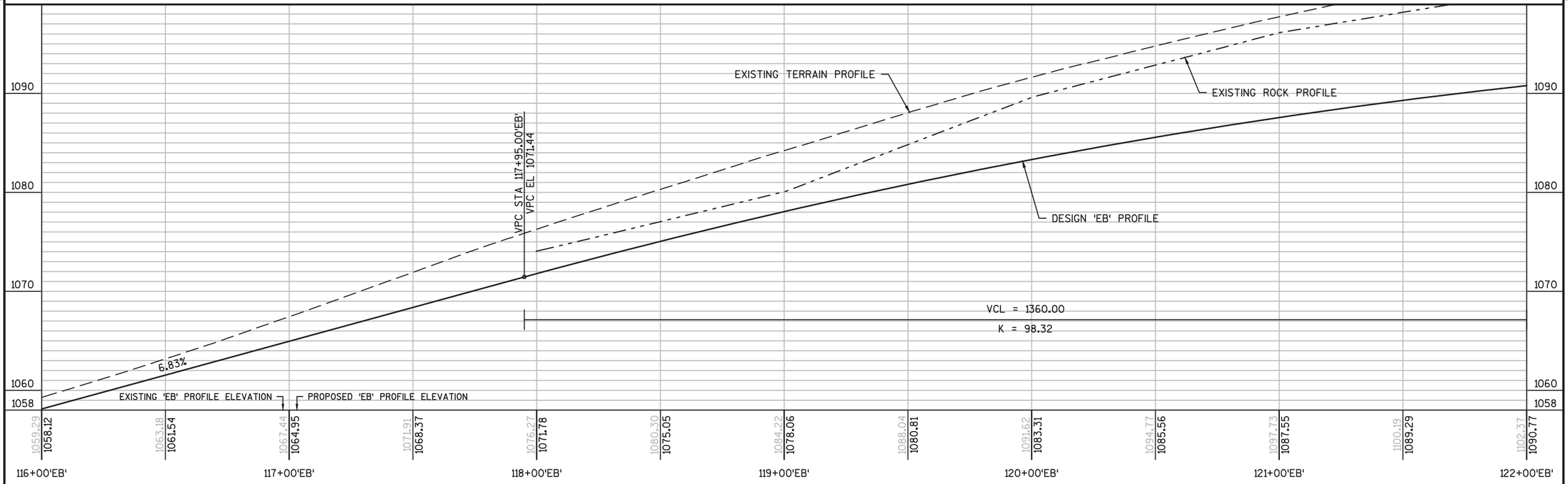
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN: CTH PD	SHEET 400	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050102

PLOT DATE : 10/17/2016 2:15 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 44





PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PROFILE: CTH PD	SHEET 401	E

N

DANE COUNTY PARKS

EXISTING LOOKOUT TO REMAIN

ICE AGE NATIONAL SCENIC TRAIL

ICE AGE JUNCTION PATH

32+00'ST

51+00'ST

209+00'AT

210+00'AT

211+00'AT

RETAINING WALL
STA. 209+66'AT - STA. 210+20'AT

TREE CLEARING AND GRUBBING

FISHER CONSTRUCTION INC.

P.L.

ALLIANT ENERGY (ELECTRIC)

40' PUBLIC PEDESTRIAN/BIKE PATH EASEMENT

REMOVE BOULDER RETAINING WALL

R-13-310

R-13-309

213+00'AT

214+00'AT

CHARTER (COMMUNICATIONS)

MADISON GAS & ELECTRIC (GAS)

CAUTION

MATCH LINE STA. 122+00'WB'

123+00'WB'

124+00'WB'

125+00'WB'

126+00'WB'

127+00'WB'

123+00'EB'

124+00'EB'

125+00'EB'

126+00'EB'

127+00'EB'

CTH PD WB

CTH PD EB

MATCH LINE STA. 128+00'WB'

B-13-847

REMOVING SMALL PIPE CULVERTS

R/W

ATC & ALLIANT ENERGY (ELECTRIC)

CAUTION

TDS (COMMUNICATIONS)

SLOPE INTERCEPT (TYP.)

PHILIP F. GREENWELL
DARRELL W. GREENWELL

TLE

ICE AGE NATIONAL SCENIC TRAIL

32+00'C'

207+00'AT

206+00'AT

ICE AGE JUNCTION PATH

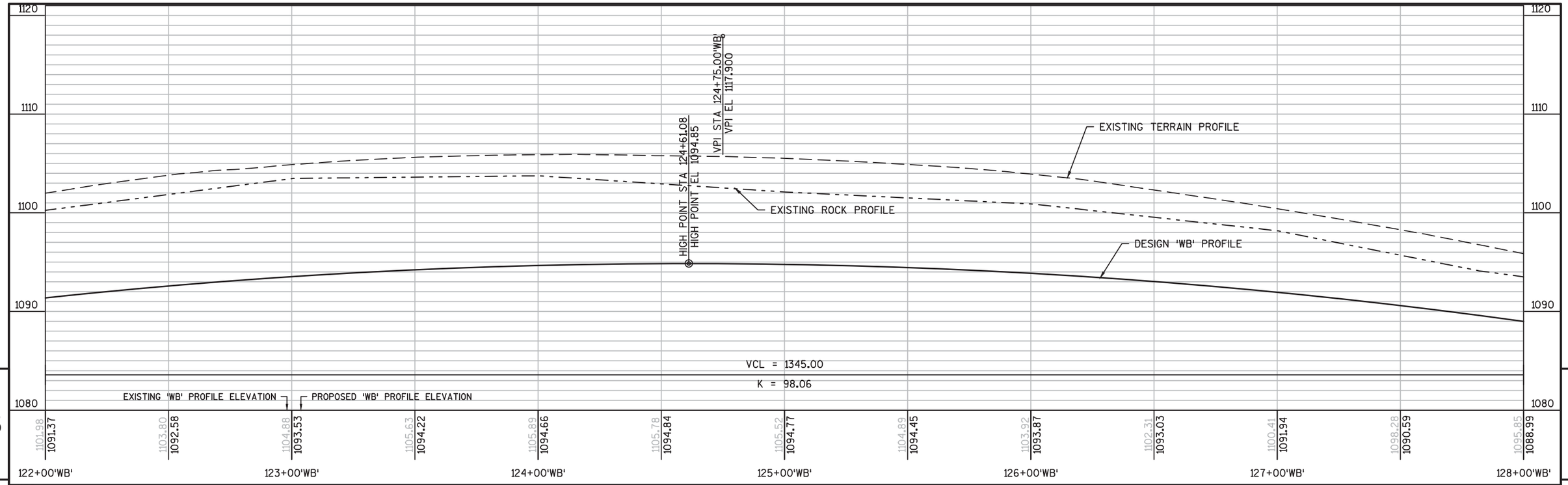
DANE COUNTY PARKS

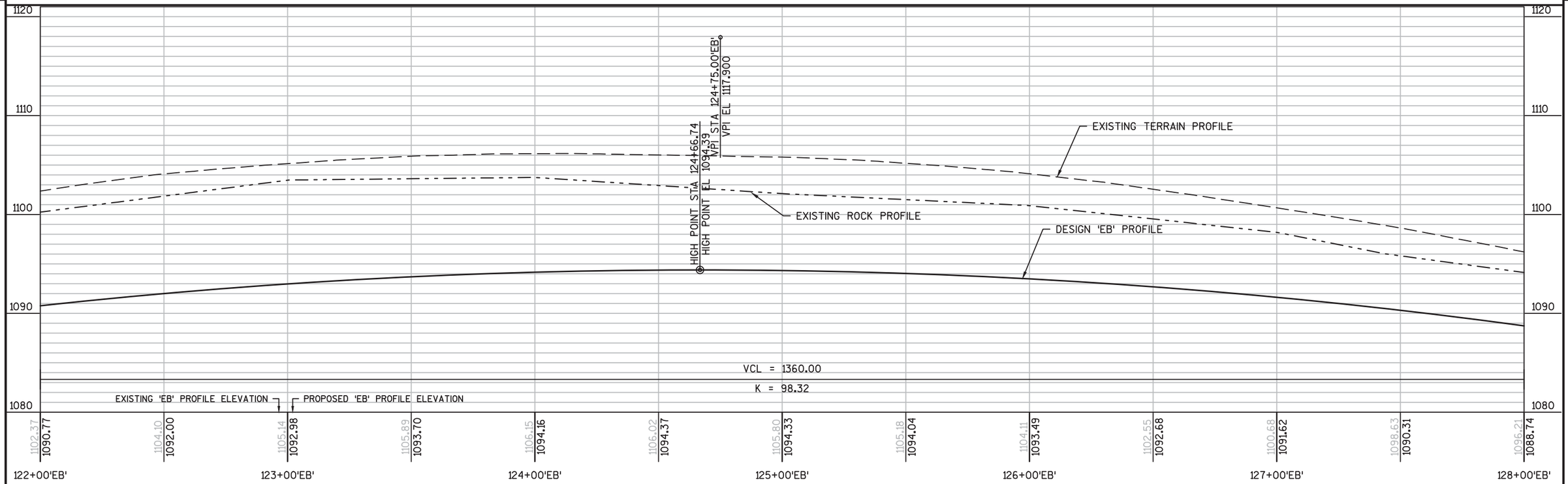
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN: CTH PD	SHEET 402	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050103

PLOT DATE : 10/17/2016 2:15 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 44





PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PROFILE: CTH PD	SHEET 403	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050103

PLOT DATE : 12/19/2016 3:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

BENCHMARKS

NO.	STATION	O/S	ELEV.	DESCRIPTION
60	132+93.81'WB'	26' LT	1062.87	CHIS SQ NE COR TFSM CONC BASE
61	128+94.62'WB'	45' RT	1090.25	NW BOLT METAL PPOL (N MOST BOLT OF 2)

TREE CLEARING AND GRUBBING

FISHER CONSTRUCTION INC.

KETTLE RIDGE CONDO ASSOCIATION

SOUTH HIGH POINT ROAD

21+00HP'

N

MADISON GAS & ELECTRIC (GAS)

CAUTION

CITY OF MADISON (COMMUNICATIONS)

40' PUBLIC PEDESTRIAN/BIKE PATH EASEMENT

CHARTER (COMMUNICATIONS)

ALLIANT ENERGY (ELECTRIC)

R-13-309

R/W

BM60

5

5

MATCH LINE STA. 128+00'WB'

128+00'WB'

129+00'WB'

130+00'WB'

131+00'WB'

CTH PD EB

132+00'WB'

133+00'WB'

134+00'WB'

MATCH LINE STA. 134+00'WB'

128+00'EB'

129+00'EB'

130+00'EB'

131+00'EB'

132+00'EB'

133+00'EB'

134+00'EB'

CTH PD EB

BM61

TDS (COMMUNICATIONS)

PLE

R/W

TDS (COMMUNICATIONS)

ATC & ALLIANT ENERGY (ELECTRIC)

STA. 130+03'EB'
REMOVE C.E.

CAUTION

13+00'A'

14+00'A'

ICE AGE TRAIL

12+00'A'

55+00'IE'

DANE COUNTY PARKS

STA. 133+45'WB'
CONSTRUCT C.E.

EXISTING BUILDING TO REMAIN

ICE AGE TRAIL ENTRANCE

51+00'IE'

52+00'IE'

53+00'IE'

54+00'IE'

BEGIN CONSTRUCTION
STA. 50+48.60'IE'

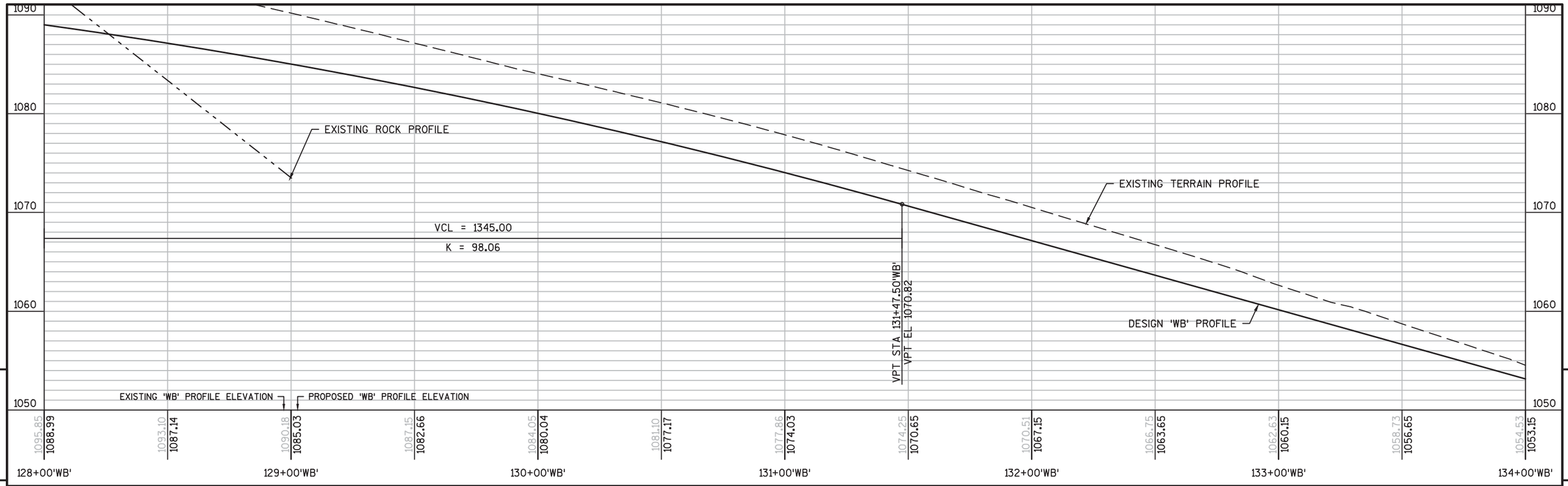
SLOPE INTERCEPT (TYP.)

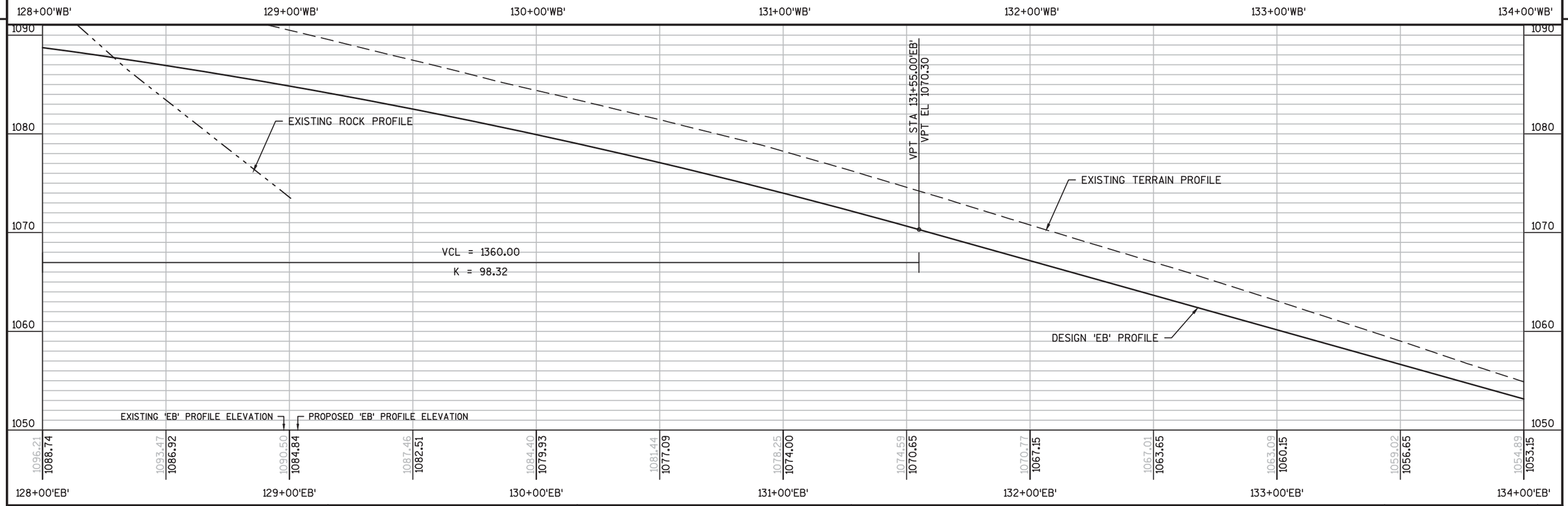
TLE

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN: CTH PD	SHEET 404	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050104

PLOT DATE : 10/28/2016 1:22 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT





PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PROFILE: CTH PD	SHEET 405	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050104

PLOT DATE : 12/19/2016 3:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

BENCHMARKS

NO.	STATION	O/S	ELEV.	DESCRIPTION
59	138+65.97'WB'	34' LT	1021.32	NE FLANGE BOLT W/ "6-6 BURY" TAG HYD

N

TREE CLEARING AND GRUBBING

STRATTON HILL CONDOMINIUM ASSOCIATION

END CONSTRUCTION
STA. 31+50.00'SW'
MATCH EXISTING
SAWCUT REQ'D

KRANTZ FAMILY, LLC

STRATTON WAY

31+00'SW'

CHARTER (COMMUNICATIONS)

TDS (COMMUNICATIONS)

CITY OF MADISON (WATER)

BM59

TLE

CITY OF MADISON (COMMUNICATIONS)

SLOPE INTERCEPT (TYP.)

CHARTER (COMMUNICATIONS)

ALLIANT ENERGY (ELECTRIC)

TLE

TDS (COMMUNICATIONS)

R/W

CAUTION

MADISON GAS & ELECTRIC (GAS)

MATCH LINE STA. 134+00'WB'

134+00'WB'

135+00'WB'

136+00'WB'

137+00'WB'

CTH PD WB

138+00'WB'

139+00'WB'

140+00'WB'

MATCH LINE STA. 140+00'WB'

134+00'EB'

135+00'EB'

136+00'EB'

137+00'EB'

138+00'EB'

139+00'EB'

140+00'EB'

CITY OF MADISON (COMMUNICATIONS)

CTH PD EB

R/W

PLE

ATC & ALLIANT ENERGY (ELECTRIC)

TDS (COMMUNICATIONS)

CAUTION

TLE

PLE

TLE

DANE COUNTY PARKS

5

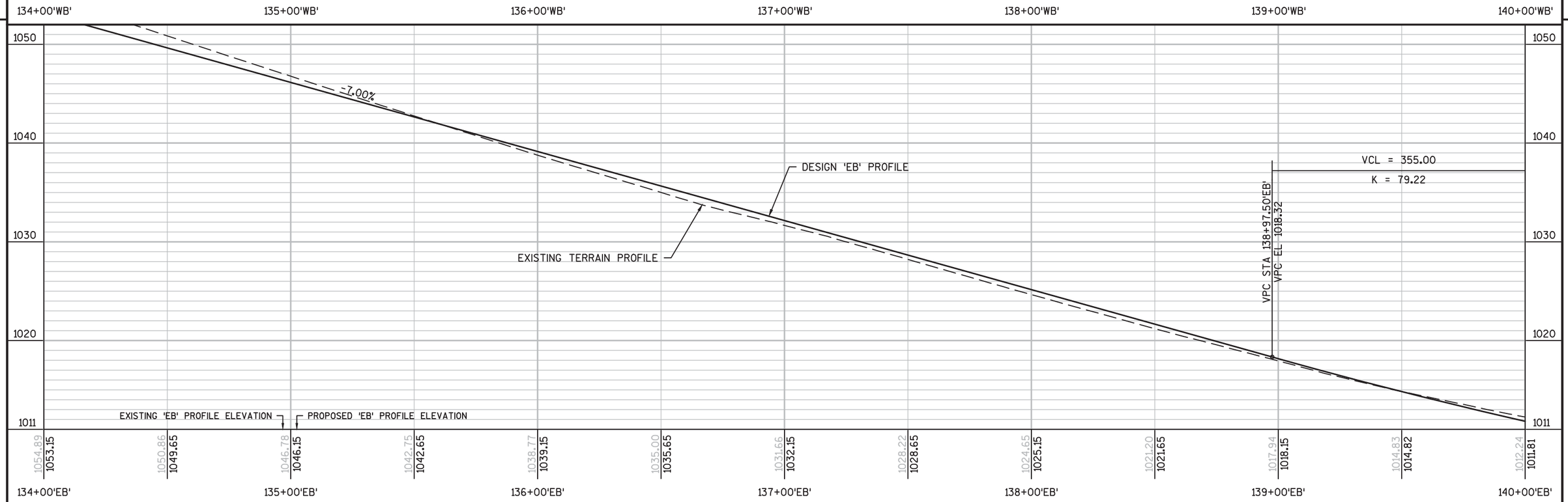
5

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	PLAN: CTH PD	SHEET 406	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050105

PLOT DATE : 10/17/2016 2:16 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT





PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PROFILE: CTH PD	SHEET 407	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050105
PLOT DATE : 10/17/2016 2:16 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

N

BENCHMARKS

NO.	STATION	O/S	ELEV.	DESCRIPTION
57	145+86.67'WB'	43' LT	992.01	CHIS SQ SE COR EPED "6-8-2.3.4 52/2 CONC PAD
58	142+78.86'WB'	34' LT	1002.28	NW FLANGE BOLT W/ "6-6 BURY" TAG HYD

TREE CLEARING AND GRUBBING

KRANTZ FAMILY, LLC

BADGER MILL CREEK

CITY OF MADISON
STORM WATER
UTILITY #533

WETLAND BOUNDARY

CITY OF MADISON (WATER)

TDS (COMMUNICATIONS)

CHARTER (COMMUNICATIONS)

REMOVING SMALL
PIPE CULVERTS

BM58

R/W

BM57

MADISON GAS & ELECTRIC (GAS)

CAUTION

MATCH LINE STA. 140+00'WB'

140+00'WB' 141+00'WB' CTH PD WB 142+00'WB' 143+00'WB' 144+00'WB' 145+00'WB' 146+00'WB'

140+00'EB' 141+00'EB' 142+00'EB' CTH PD EB 143+00'EB' 144+00'EB' 145+00'EB' 146+00'EB'

MATCH LINE STA. 146+00'WB'

ATC & ALLIANT ENERGY (ELECTRIC)

CAUTION

R/W

ALLIANT ENERGY (ELECTRIC)

R/W

SLOPE INTERCEPT (TYP.)

EXISTING FENCE TO REMAIN

TLE

41+00'SP'

SNOWY PARKWAY

BEGIN CONSTRUCTION
STA. 41+00.00'SP'
MATCH EXISTING
SAWCUT REQ'D

TDS (COMMUNICATIONS)

CHARTER (COMMUNICATIONS)

SCOTT A GRIFFIN

CARL J. ALLEN

LAWRENCE R. ALLEN
BEATRICE ALLEN

GREG F. GATES

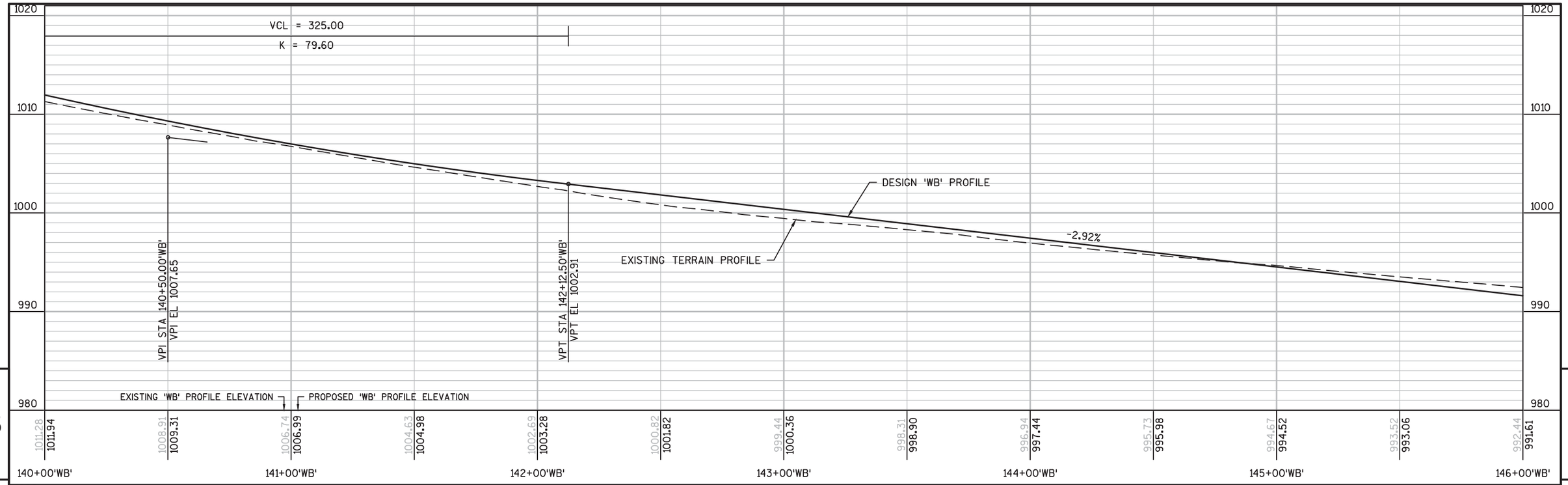
MICHAEL L. JAMES
ANN G. JAMES

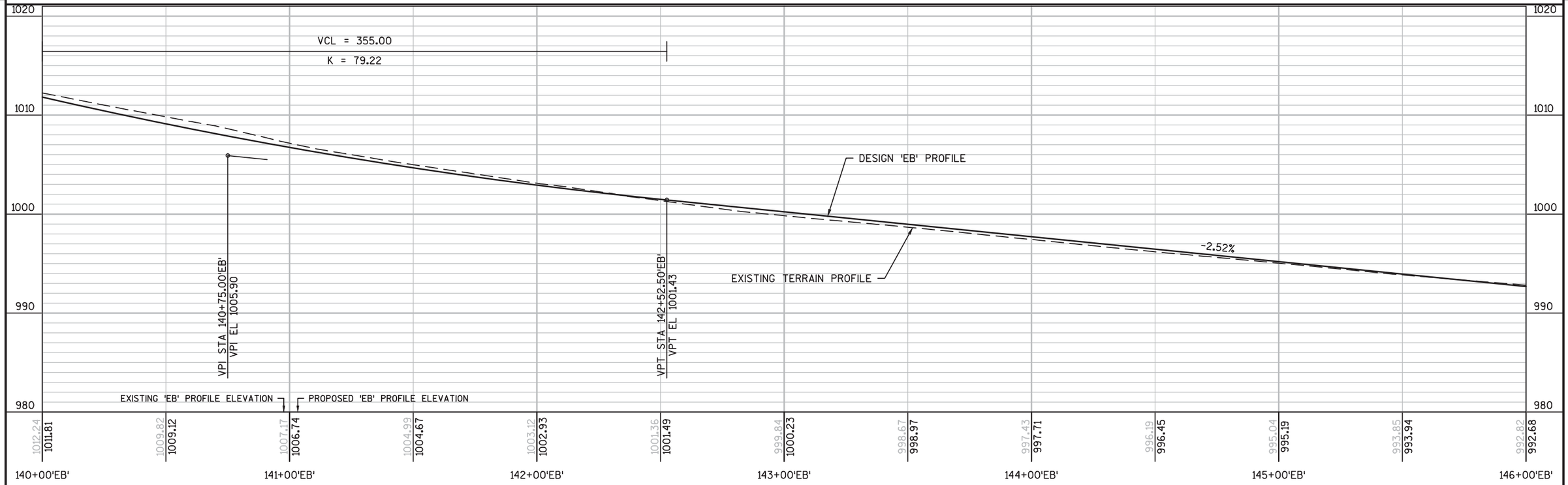
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN: CTH PD	SHEET 408	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050106

PLOT DATE : 10/17/2016 2:16 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PROFILE: CTH PD	SHEET 409	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050106

PLOT DATE : 10/17/2016 2:16 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 44

TREE CLEARING AND GRUBBING

REMOVING SMALL PIPE CULVERTS

CITY OF MADISON
STORM WATER
UTILITY #533

REMOVING SMALL PIPE CULVERTS

MADISON METRO SEWERAGE DISTRICT (SANITARY)

WETLAND BOUNDARY

B-13-0848 BOX
CULVERT
EXTENSION

MADISON GAS & ELECTRIC (GAS)

CAUTION

BADGER MILL CREEK

CHARTER (COMMUNICATIONS)

CITY OF MADISON (WATER)

CITY OF MADISON (SANITARY)

CHARTER (COMMUNICATIONS)

TDS (COMMUNICATIONS)

R/W

REMOVE EXISTING BEAMGUARD

MATCH LINE STA. 146+00'WB'

0'WB' 147+00'WB' 148+00'WB' CTH PD WB 149+00'WB' 150+00'WB' 151+00'WB' 151+22.31, -0.20' LT 152+0

MATCH LINE STA. 152+00'WB'

0'EB' 147+00'EB' 148+00'EB' 149+00'EB' 150+00'EB' 151+00'EB' 152+0

CHARTER (COMMUNICATIONS)

TDS (COMMUNICATIONS)

CTH PD EB

STA. 151+22'WB'
EXISTING 2-CELL 8-FT x 4-FT x 290-FT
(B-13-848)
(SEE STRUCTURE PLANS)

R/W

TLE

SLOPE INTERCEPT (TYP.)

EXISTING SIGN AND
LANDSCAPING TO REMAIN

ALLIANT ENERGY (ELECTRIC)

ATC & ALLIANT ENERGY (ELECTRIC)

CAUTION

LANDMARK
REFERENCE
MONUMENT

T 6 N
2
11
R 8 E

MICHAEL L. JAMES
ANN G. JAMES

PABLO J. DEFILIPPI
MARISOL D. DEFILIPPI

RICHARD C. LUNDEEN
SUSAN R. LUNDEEN

WARREN D. SCHMIDT

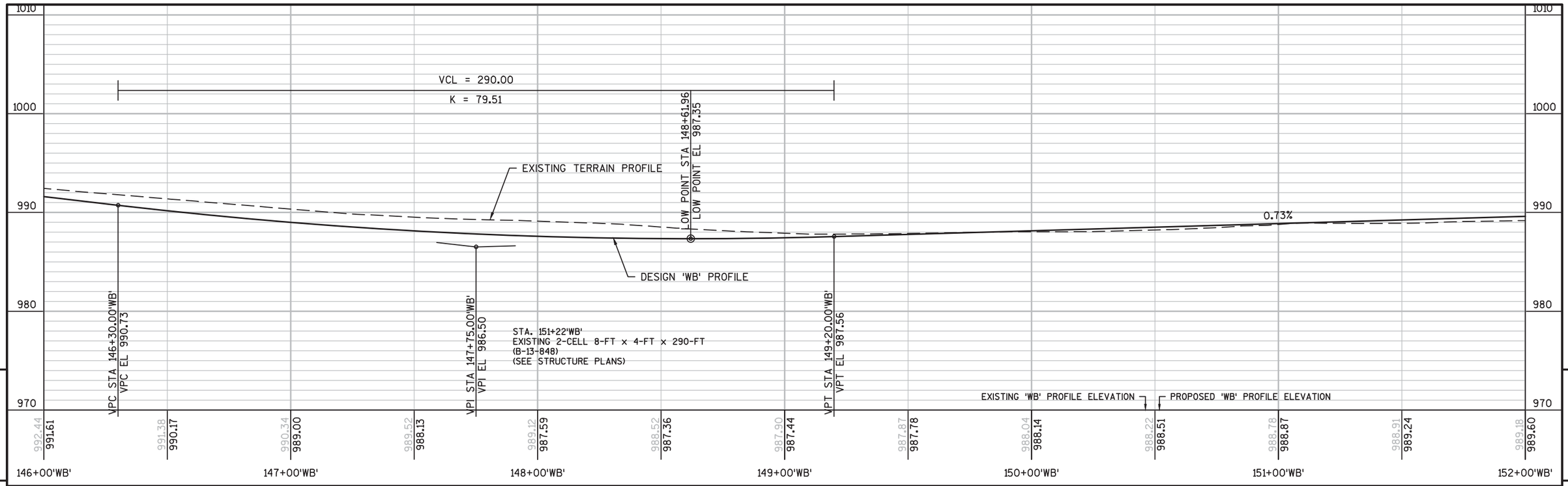
ROBERT B. MOORE
DENISE A. MOORE

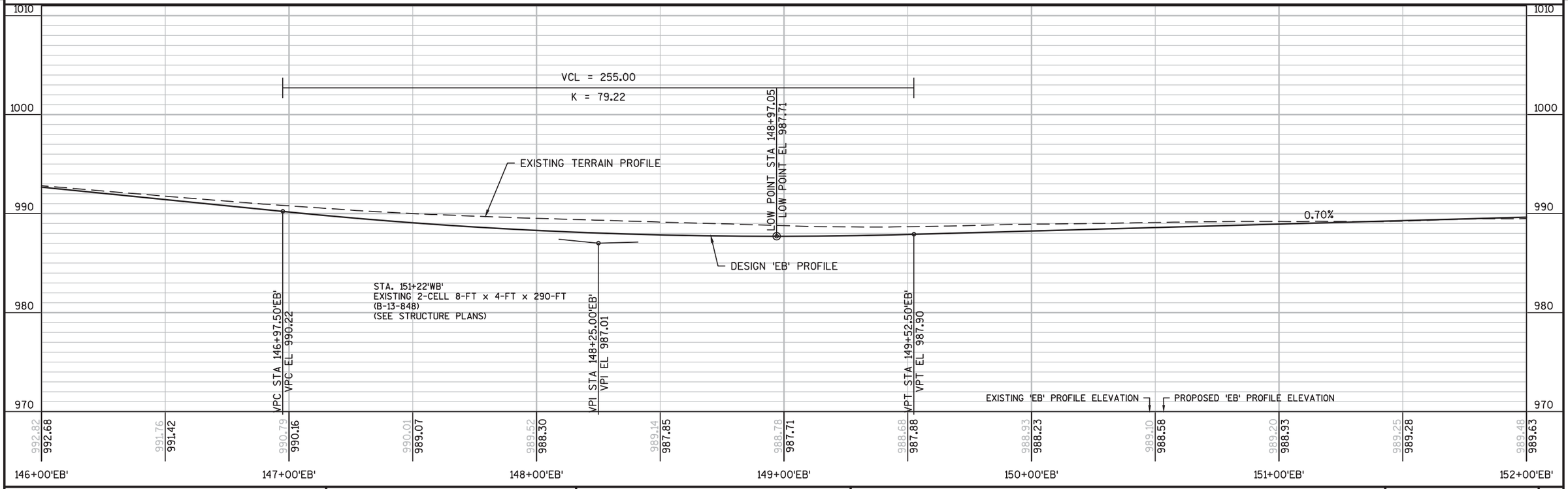
JAMES BORLAUG
GWEN BORLAUG

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN: CTH PD	SHEET 410	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050107

PLOT DATE : 1/24/2017 11:33 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT





PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PROFILE: CTH PD	SHEET 411	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050107
PLOT DATE : 10/17/2016 2:17 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 44

BENCHMARKS

NO.	STATION	O/S	ELEV.	DESCRIPTION
56	152+84.87'WB'	32' LT	992.20	SW FLANGE BOLT HYD

TREE CLEARING AND GRUBBING

N

MUIR FIELD DRIVE

56+00'CM'

55+00'CM'

CHARTER (COMMUNICATIONS)

ROBIN WESTHAVEN, LLC
FINCH, LLC

ROBIN WESTHAVEN, LLC
FINCH, LLC

BM56

TLE

TDS (COMMUNICATIONS)

CITY OF MADISON (WATER)

CAUTION

MADISON GAS & ELECTRIC (GAS)

SLOPE INTERCEPT (TYP.)

R/W

REMOVE SMALL PIPE CULVERTS

MATCH LINE STA. 152+00'WB'

MATCH LINE STA. 158+00'WB'

152+00'WB'

153+00'WB'

154+00'WB'

155+00'WB'

CTH PD WB

156+00'WB'

157+00'WB'

152+00'EB'

153+00'EB'

154+00'EB'

155+00'EB'

CTH PD EB

156+00'EB'

157+00'EB'

CAUTION

TDS (COMMUNICATIONS)

ATC & ALLIANT ENERGY (ELECTRIC)

54+00'CM'

53+00'CM'

COUNTRY GROVE DRIVE

R/W

TLE

ALLIANT ENERGY (ELECTRIC)

EXISTING LANDSCAPING TO REMAIN

CITY OF MADISON
STORM WATER
UTILITY #533

STEPHEN E. ENDER
KAREN B. WENDLER

E.B. BREDEL LIVING TRUST

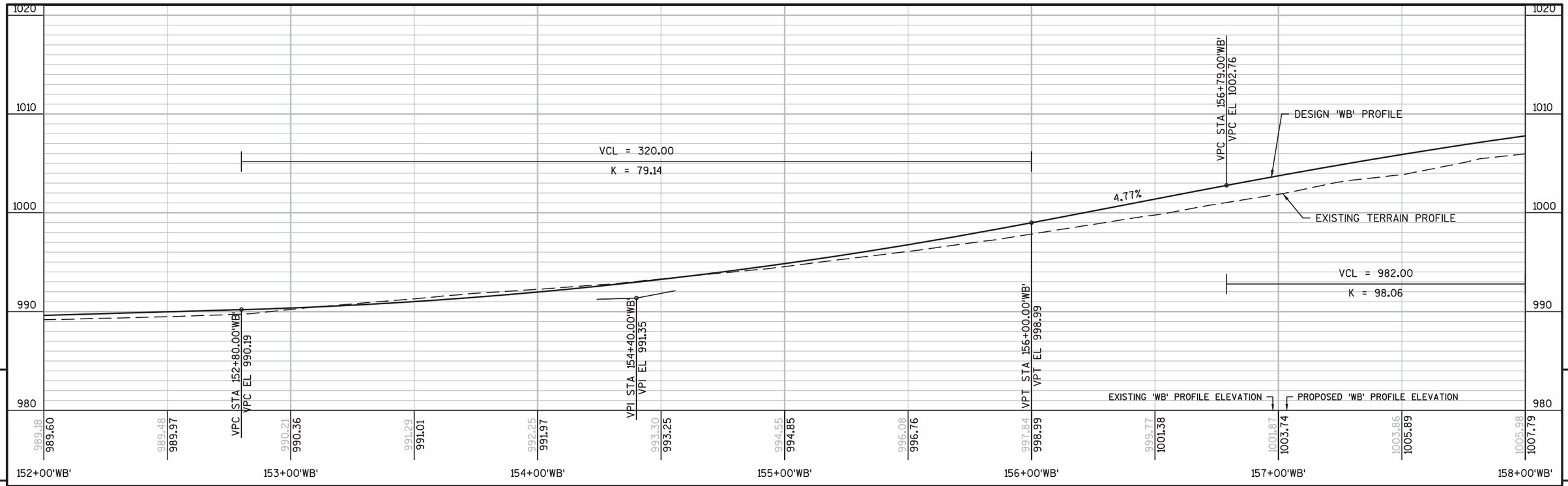
ROBERT J. SALVO

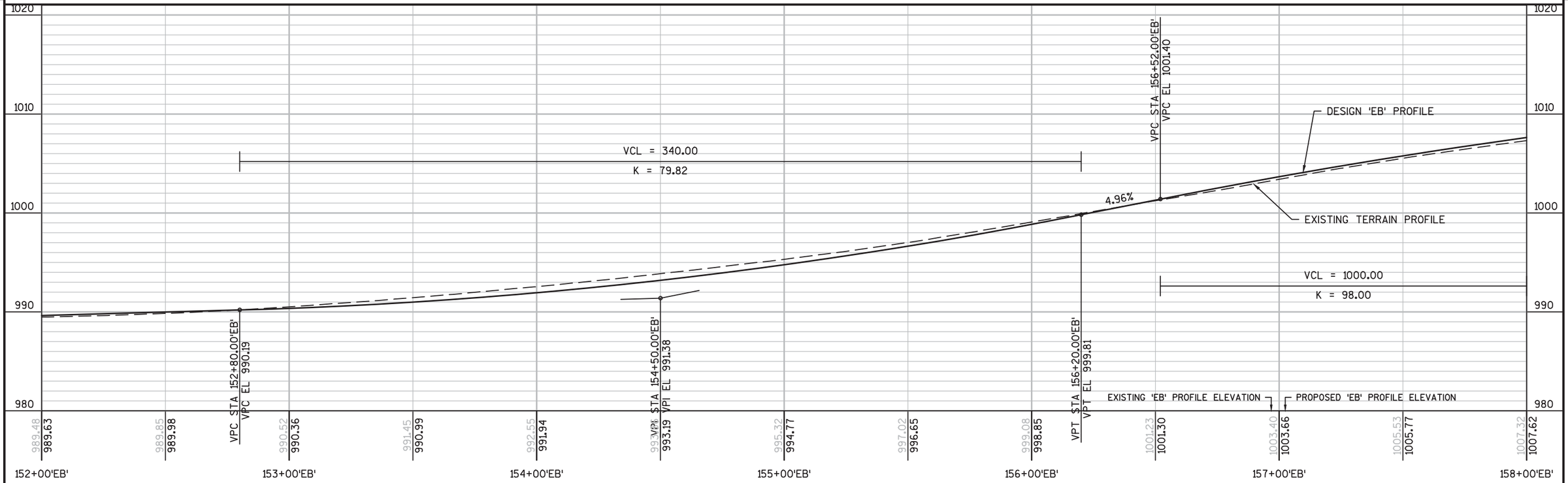
STEVEN J. HAGENS
DAWN M. HAGENS

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN: CTH PD	SHEET 412	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050108

PLOT DATE : 10/17/2016 2:17 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT





PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PROFILE: CTH PD	SHEET 413	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050108
PLOT DATE : 10/17/2016 2:17 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 44

BENCHMARKS

NO.	STATION	O/S	ELEV.	DESCRIPTION
54	163+93.37'WB'	34' LT	1012.92	NW FLANGE BOLT W/ "6-6 BURY" TAG HYD
55	158+79.19'WB'	34' LT	1012.24	N FLANGE BOLT BETWEEN "MUE LLER" HYD

N

TREE CLEARING AND GRUBBING

GUNNER BAKKEN
PATRICIA BAKKEN

DAVID T. WAGNER
ALANA M. WAGNER

JASON RITTLE
JENNA L. SHELLY

BETH L. SOROLYK
STEPHEN M. SOROLYK

BRYAN D. BROWN
FATINA D. SIEUERS

ROBIN WESTHAVEN, LLC
FINCH, LLC

NATALIA DOBREREZ

NORMA
ROJAS-LAGUNA

CITY OF MADISON (SANITARY)

PAUL R. ELLIOT
TONYA JC ELLIOT

ROBERT A. BETHKE
ALICIA R. BETHKE

PAMELA L. KRUGRAN

STA. 160+94'WB'
RECONSTRUCT P.E.

STA. 162+80'WB'
RECONSTRUCT P.E.

JOSHUA MORALES
WHITNEY MORALES

TDS (COMMUNICATIONS)

SLOPE INTERCEPT (TYP.)

CITY OF MADISON (WATER)

EXISTING DECORATIVE
LANDSCAPE WALL TO REMAIN

BENT A. WORTHING
EXISTING FENCE TO REMAIN (TYP.)

EXISTING ROCK WALL TO REMAIN

EXISTING FENCE TO REMAIN (TYP.)

ROCK EXCAVATION

CHARTER (COMMUNICATIONS)

BM55

BM54

R/W

REMOVING SMALL PIPE CULVERTS
MADISON GAS & ELECTRIC (GAS)

CAUTION

CTH PD WB

159+00'WB' 160+00'WB' 161+00'WB' 162+00'WB' 163+00'WB'

MATCH LINE STA. 158+00'WB'

MATCH LINE STA. 164+00'WB'

159+00'EB' 160+00'EB' 161+00'EB' 162+00'EB' 163+00'EB'

CTH PD EB

TDS (COMMUNICATIONS)

CHARTER (COMMUNICATIONS)

R/W

ALLIANT ENERGY (ELECTRIC)

ATC & ALLIANT ENERGY (ELECTRIC)

CAUTION

STEVEN J. HAGENS
DAWN M. HAGENS

ALAN BURGUS
DAWN BURGUS

ARALELI GUERRERO REYES
DAVID R. GILREATH

STEPHANIE PRIBOTH
ROBERT PRIBOTH

TSERING P. TADHEY
TENZIN LHAKY

ANTONIO HERNANDEZ JR.
MARIA HERNANDEZ

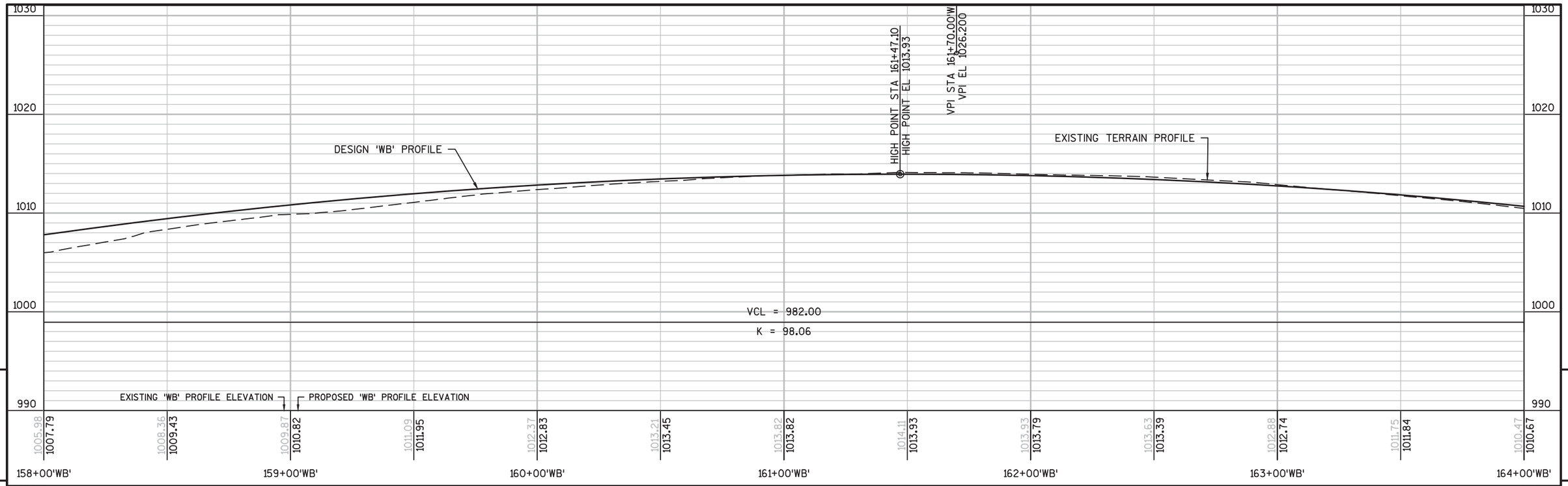
JENNIFER PAVLICK
STEVEN J. PAVLICK

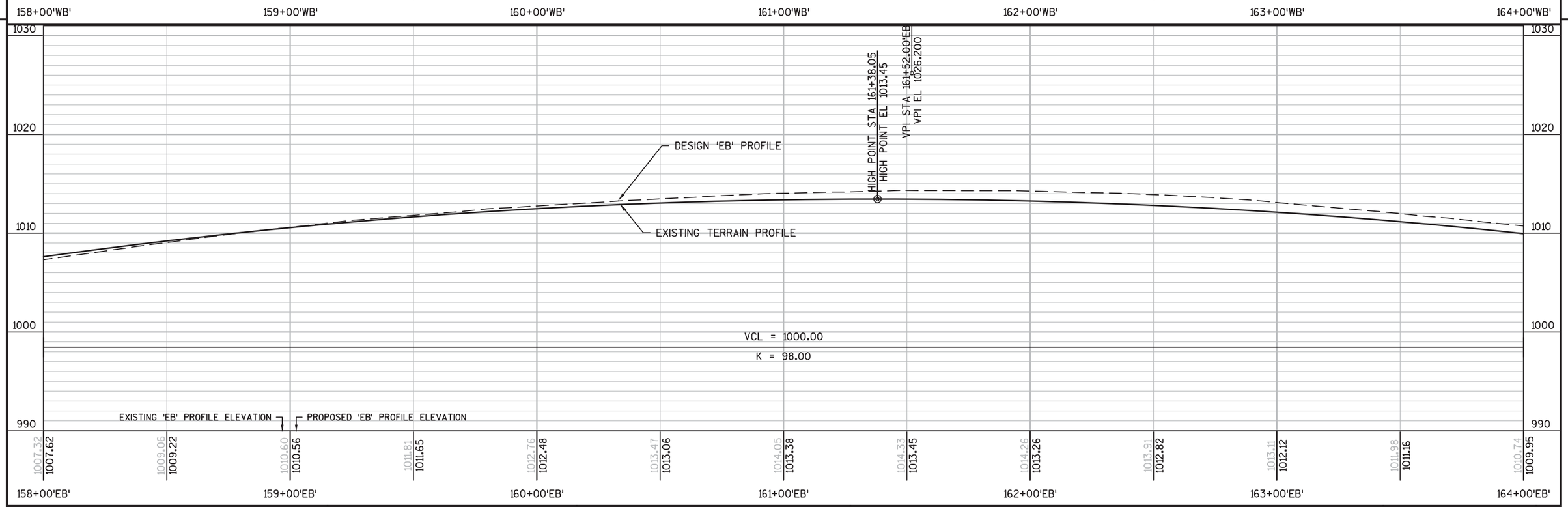
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN: CTH PD	SHEET 414	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050109

PLOT DATE : 10/17/2016 2:17 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PROFILE: CTH PD	SHEET 415	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050109

PLOT DATE : 10/17/2016 2:17 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

BENCHMARKS

NO.	STATION	O/S	ELEV.	DESCRIPTION
53	169+40.55'WB'	21' LT	992.16	NW FLANGE BOLT BETWEEN "MUE LLER" HYD

TREE CLEARING AND GRUBBING

BRYAN D. BROWN
FATINA D. SIEUERS

MICHAEL D. WALTERS

BEAU D. SMITHBAUER

ULI SCHAMILOGLU

AARON LUKE ANDERMANN
STEPHANIE R. STEINMAN

NORMA
ROJAS-LAGUNA

GUS R. HERRERA
HELEN HERRERA

CITY OF MADISON (SANITARY)

END CONSTRUCTION
STA. 73+00.00'TS'
MATCH EXISTING
SAWCUT REQ'D

RORY BAHR
JACQUELIN BAHR

STA. 164+58'WB'
RECONSTRUCT P.E.

JOSHUA MORALES
WHITNEY MORALES

LEAH KOELKER
CASEY LECHTENBERG

STA. 166+34'WB'
RECONSTRUCT P.E.

MARY FURY

KYLE R. KABARA

FATHI E. YASSIN
AMAL M. BAKIER

SILVERTON TRAIL

TDS (COMMUNICATIONS)

CHARTER (COMMUNICATIONS)

CITY OF MADISON (WATER)

SLOPE INTERCEPT (TYP.)

EXISTING FENCE TO REMAIN (TYP.)

R/W

BM53

REMOVING SMALL
PIPE CULVERTS

CAUTION

MADISON GAS & ELECTRIC (GAS)

REMOVING SMALL PIPE CULVERTS

CTH PD WB

CTH PD EB

MATCH LINE STA. 164+00'WB'

MATCH LINE STA. 170+00'WB'

165+00'WB' 166+00'WB' 167+00'WB' 168+00'WB' 169+00'WB'

165+00'EB' 166+00'EB' 167+00'EB' 168+00'EB' 169+00'EB'

74+00'TS'

73+00'TS'

72+00'TS'

71+00'TS'

REMOVE BOULDER
RETAINING WALL

R/W

ATC & ALLIANT ENERGY (ELECTRIC)

ALLIANT ENERGY (ELECTRIC)

EXISTING FENCE TO REMAIN

TLE

PLE

EXISTING DECORATIVE
SIGN TO REMAIN

CAUTION

BEGIN CONSTRUCTION
STA. 71+15.00'TS'
MATCH EXISTING
SAWCUT REQ'D

TANGLEWOOD DRIVE

JEFFERY A. JONIETZ

CRAIG J. STALSBERG
JENNIFER A. STALSBERG

RUDY LIM
MARIRYN B. LIM

CHRISTIANA M. RAIMER

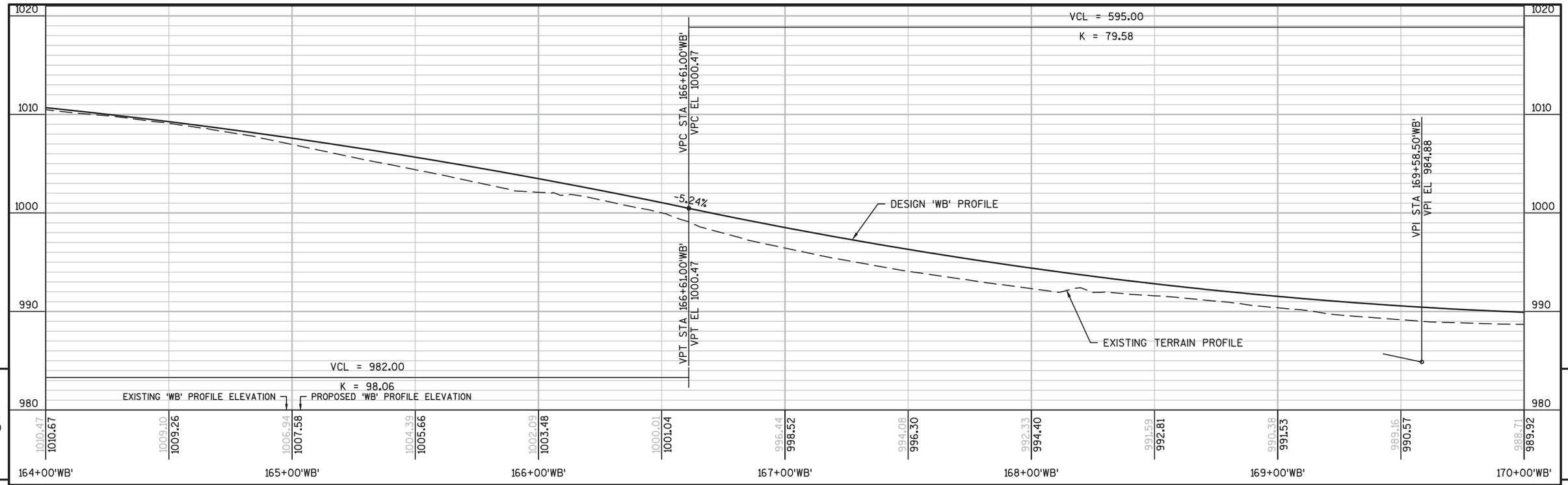
TIMBERWOOD HOMES, LLC

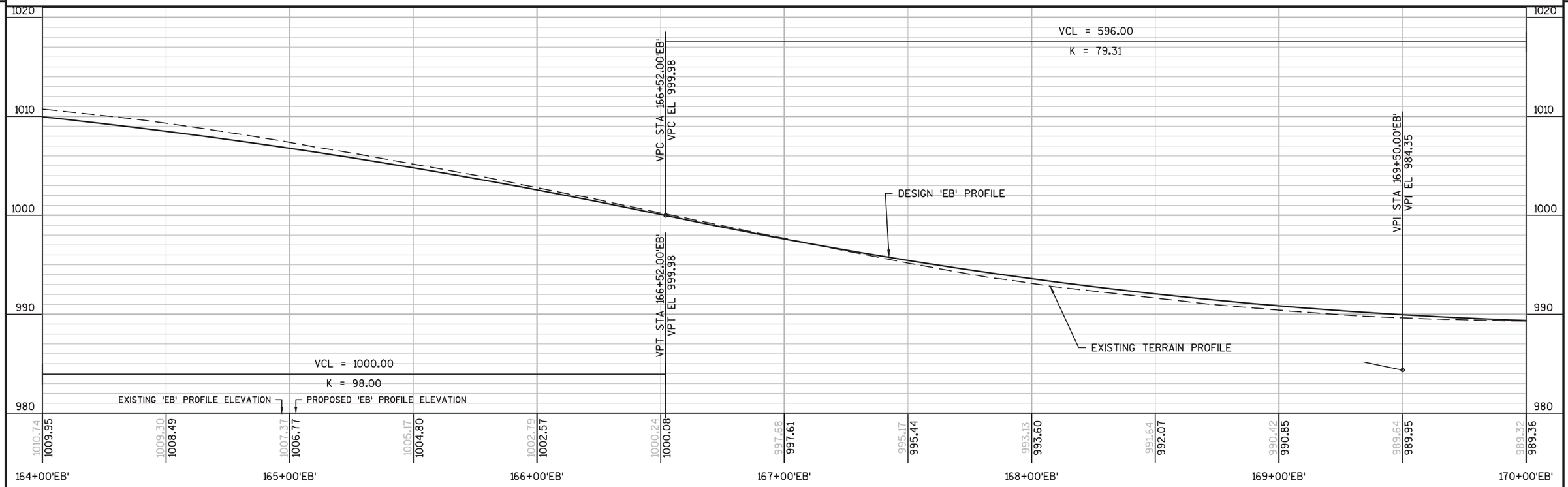
KFW, LLC

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN: CTH PD	SHEET 416	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050110

PLOT DATE : 10/17/2016 2:17 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT





PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PROFILE: CTH PD	SHEET 417	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050110

PLOT DATE : 10/17/2016 2:18 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 44

BENCHMARKS

NO.	STATION	O/S	ELEV.	DESCRIPTION
52	175+19.46'WB'	57' RT	998.64	SE FLANGE BOLT W/ "6-6 BURY" TAG HYD

TREE CLEARING AND GRUBBING

N

CITY OF MADISON
CDA TELEPHONE

CITY OF MADISON
STORM WATER
UTILITY #533

KELLI MCKINLEY

TDS (COMMUNICATIONS)

MADISON GAS & ELECTRIC (GAS)

CITY OF MADISON (SANITARY)

EXISTING STA 171+76'WB' BOX CULVERT TO REMAIN

CAUTION

R/W

MATCH LINE STA. 170+00'WB'

170+00'WB'

171+00'WB'

172+00'WB'

173+00'WB'

174+00'WB'

CTH PD WB

175+00'WB'

176+00'WB'

MATCH LINE STA. 176+00'WB'

CHARTER (COMMUNICATIONS)

0'EB'

171+00'EB'

172+00'EB'

173+00'EB'

174+00'EB'

175+00'EB'

176+00'EB'

CTH PD EB

TDS (COMMUNICATIONS)

CITY OF MADISON (WATER)

93+00'SD'

BM52

SLOPE INTERCEPT (TYP.)

R/W

SLOPE INTERCEPT (TYP.)

TDS (COMMUNICATIONS)

ATC & ALLIANT
ENERGY
(ELECTRIC)

CAUTION

KFW LLC

ALLIANT ENERGY (ELECTRIC)

CHARTER (COMMUNICATIONS)

LANDMARK
REFERENCE
MONUMENT

T 6 N
2 1
11 12
R 8 E

STA. 172+48'WB'
RECONSTRUCT C.E.

BEGIN CONSTRUCTION
STA. 92+24.27'SD'
MATCH EXISTING
SAWCUT REQ'D

92+00'SD'

STONECREEK DRIVE

GERHARD FISCHER
JOAN FISCHER

CITY OF MADISON
ENGINEER STORMWATER
UTILITY S33

STONECREEK TOWNHOMES, LLC

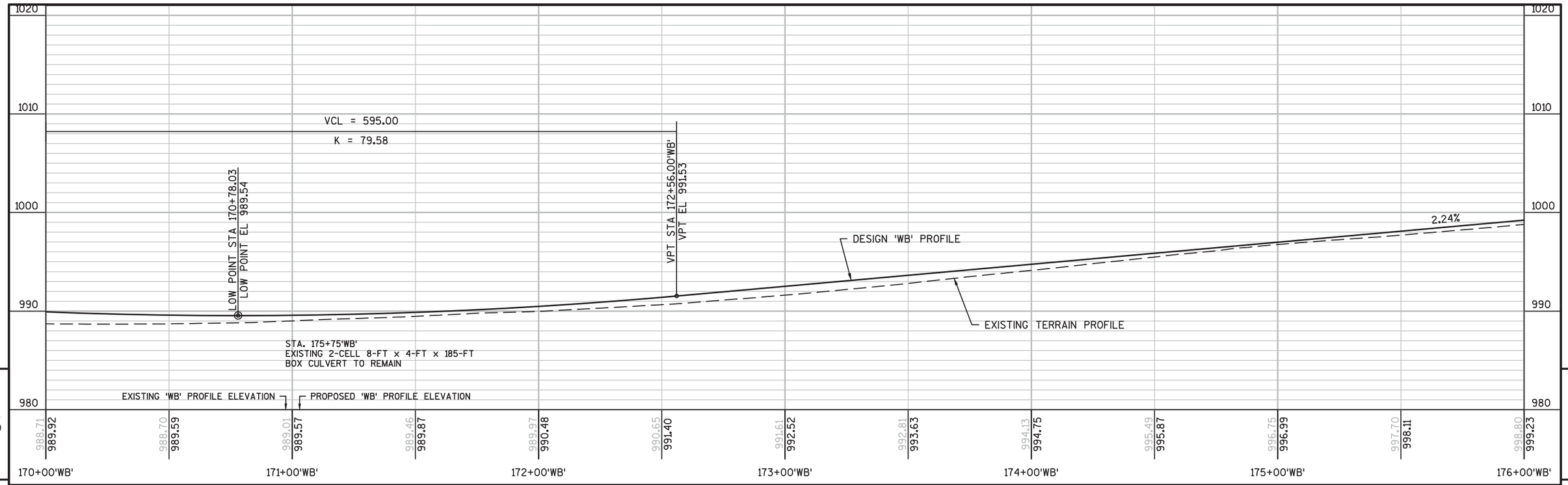
MT. VERNON
TELEPHONE CO LLC

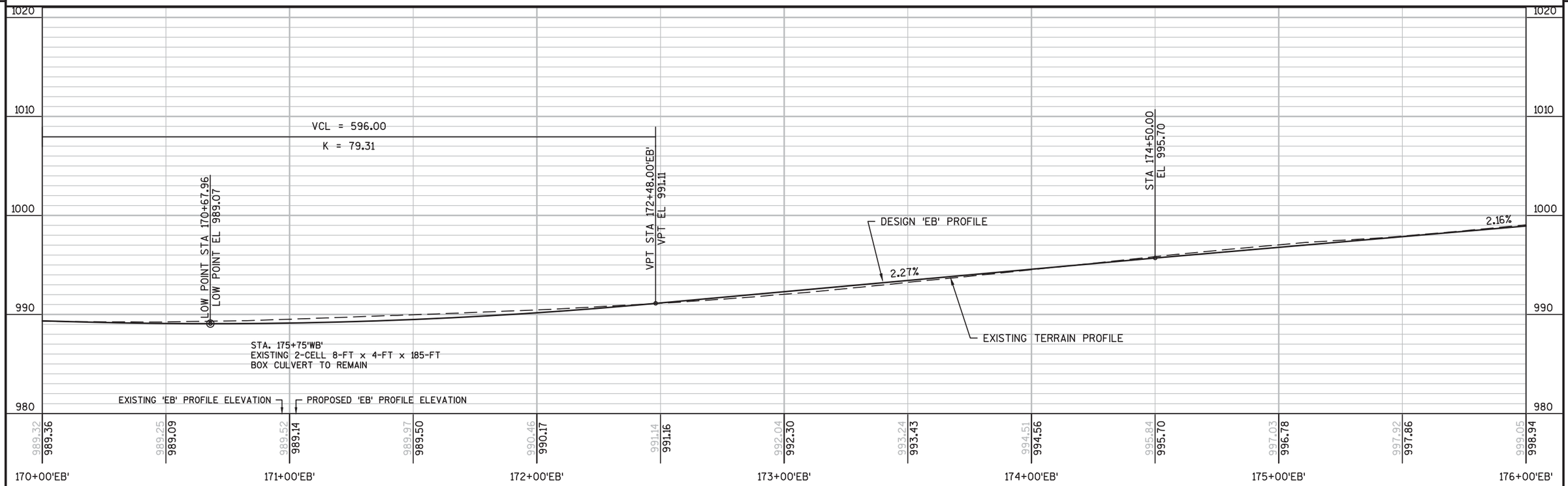
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN: CTH PD	SHEET 418	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050111

PLOT DATE : 10/17/2016 2:18 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PROFILE: CTH PD	SHEET 419	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050111
PLOT DATE : 10/17/2016 2:18 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 44

BENCHMARKS

NO.	STATION	O/S	ELEV.	DESCRIPTION
51	180+26.63'WB'	54' RT	1007.97	RR SPIKE IN PPOL #6-8-12 7/52

TREE CLEARING AND GRUBBING

MIDLAND BUILDERS INC

DHR TOWNHOUSE RENTALS LLC
C/O MIDLAND RENTALS

KELLI MCKINLEY

END CONSTRUCTION
STA. 180+91.47'WB'
MATCH EXISTING
SAWCUT REQ'D.

MADISON GAS & ELECTRIC (GAS)

CAUTION

SLOPE INTERCEPT (TYP.)

PLE

R/W

CTH PD WB

CTH PD EB

MATCH LINE STA. 176+00'WB'

176+00'WB'
177+00'WB'
178+00'WB'
179+00'WB'
180+00'WB'
181+00'WB'
182+00'WB'

177+00'EB'
178+00'EB'
179+00'EB'
180+00'EB'
181+00'EB'
182+00'EB'

BM51

CITY OF MADISON (WATER)

MADISON GAS & ELECTRIC (GAS)

ATC & ALLIANT ENERGY (ELECTRIC)

CAUTION

TDS (COMMUNICATIONS)

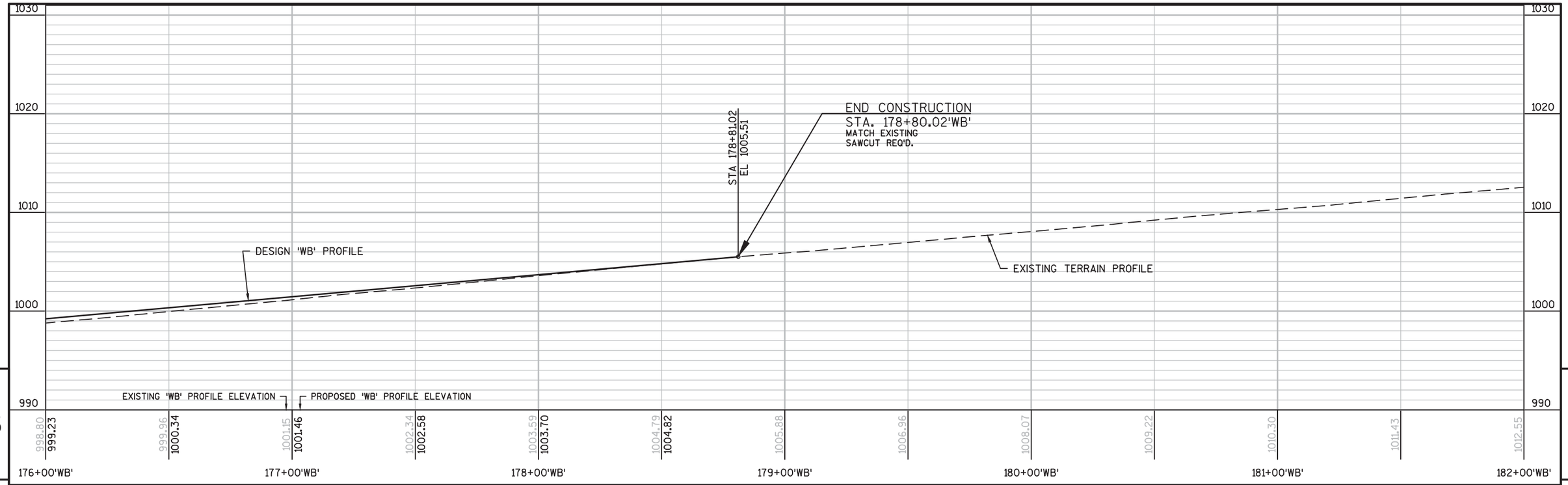
END CONSTRUCTION
STA. 180+99.38'EB'
MATCH EXISTING
SAWCUT REQ'D.

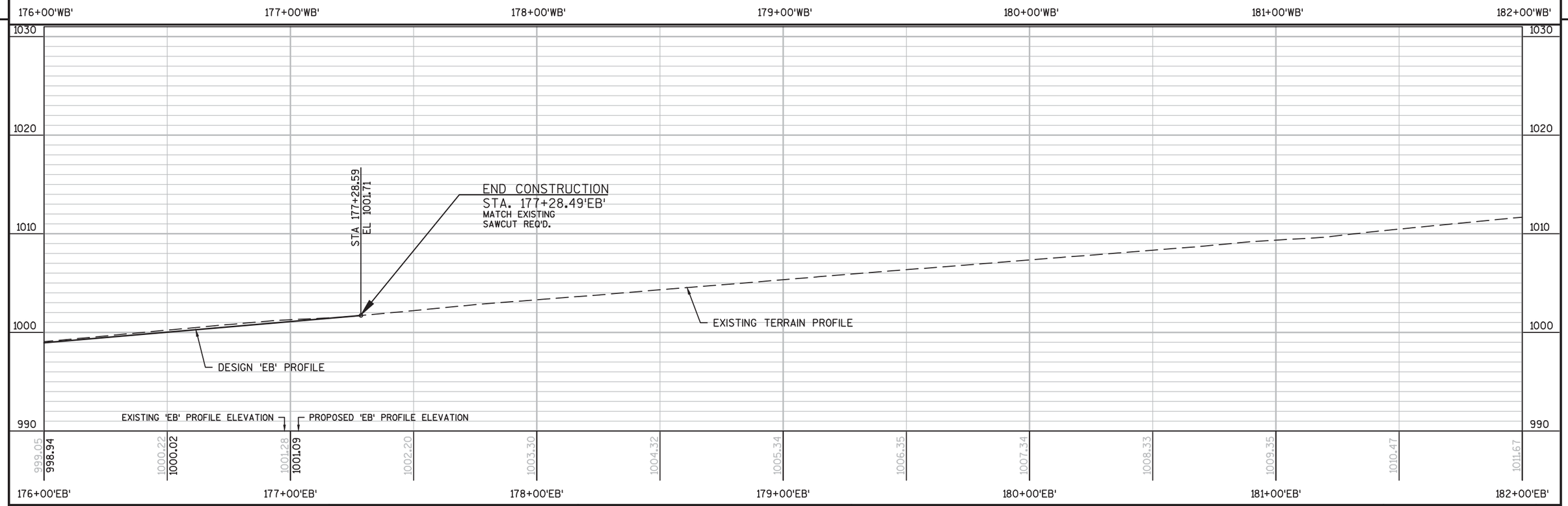
MAD GROVE LLC

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN: CTH PD	SHEET 420	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050112

PLOT DATE : 10/17/2016 2:18 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT





PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PROFILE: CTH PD	SHEET 421	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050112

PLOT DATE : 10/17/2016 2:18 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

BENCHMARKS

NO.	STATION	O/S	ELEV.	DESCRIPTION
50	185+32.59'WB'	55' RT	1019.18	CHIS SQ NW COR TFS CONC BASE
67	185+66.63'WB'	248' RT	1029.07	SW FLANGE BOLT W/ "6-6 BURY" TAG HYD

TREE CLEARING AND GRUBBING

N

MADISON GAS & ELECTRIC (GAS)

CAUTION

K & E ENTERPRISES

K & E ENTERPRISES

MAD GROVE LLC

ATC & ALLIANT ENERGY (ELECTRIC)

CAUTION

BEGIN CONSTRUCTION
STA. 20+24.09'MD'
MATCH EXISTING
SAWCUT REQ'D.

R/W

BM50

CTH PD EB

CTH PD WB

184+00'EB'

184+00'WB'

185+00'EB'

185+00'WB'

EXISTING RETAINING WALL TO REMAIN

EXISTING SIGN TO REMAIN

STA. 23+91.43'MD'
RECONSTRUCT C.E.

SLOPE INTERCEPT (TYP.)
TLE

R/W

CITY OF MADISON (WATER)

MADISON GAS & ELECTRIC (GAS)

BM67

21+00'MD'

22+00'MD'

23+00'MD'

24+00'MD'

MAPLE GROVE DRIVE

END CONSTRUCTION
STA. 22+83.45'MD'
MATCH EXISTING
SAWCUT REQ'D.

END PROJECT
STA. 185+71.02'WB'

ATC & ALLIANT ENERGY (ELECTRIC)

186+00'EB'

186+00'WB'

187+00'EB'

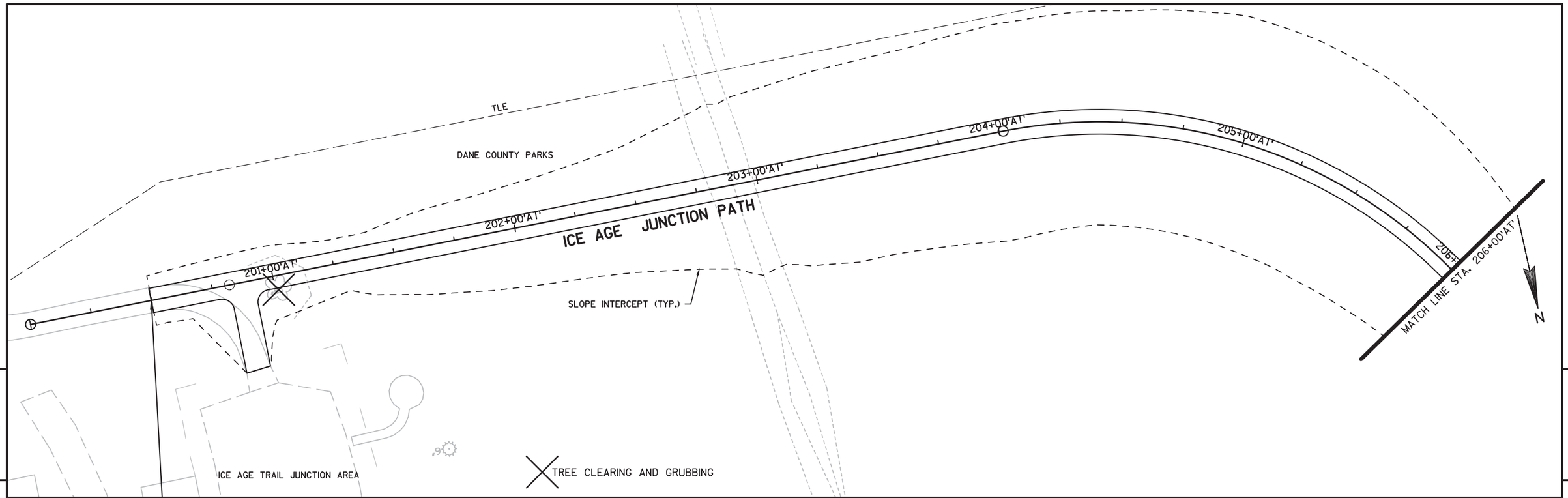
187+00'WB'

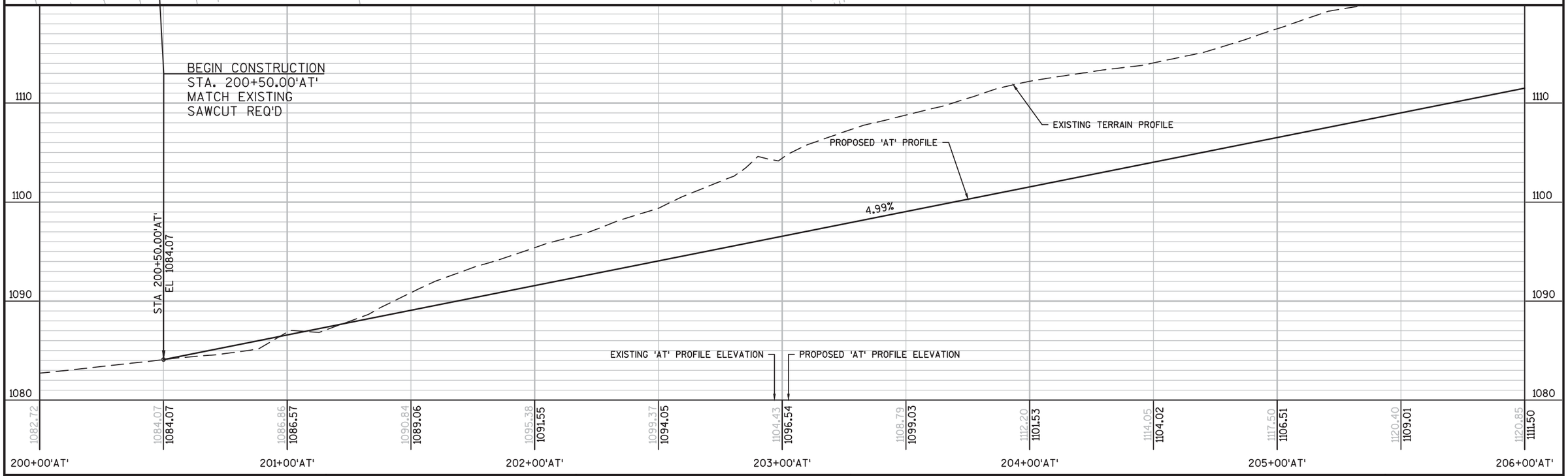
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN: CTH PD	SHEET 422	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050101-PP-PD.DWG
LAYOUT NAME - 050112

PLOT DATE : 10/17/2016 2:18 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN AND PROFILE: ICE AGE JUNCTION PATH	SHEET 423	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050102-PP-AT.DWG
LAYOUT NAME - 050101

PLOT DATE : 10/17/2016 2:18 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

N

MATCH LINE STA. 206+00'AT'

206+00'AT'

207+00'AT'

208+00'AT'

MATCH LINE STA. 212+00'AT'

209+00'AT'

ICE AGE JUNCTION PATH

B-13-847
(SEE STRUCTURE PLANS)

CTH PD EB

CTH PD WB

125+00'EB'

125+00'WB'

TDS (COMMUNICATIONS)

R/W

ATC & ALLIANT ENERGY (ELECTRIC)

CAUTION

ALLIANT ENERGY (ELECTRIC)

MADISON GAS & ELECTRIC (GAS)

CAUTION

212+00'AT'

210+00'AT'

SLOPE INTERCEPT (TYP.)

MINOR RETAINING WALL
(SEE CONSTRUCTION DETAIL)

CHARTER (COMMUNICATIONS)

R-13-309

TREE CLEARING AND GRUBBING

5

5

1130

1120

1110

1100

VPC STA 206+30.00'AT'
VPC EL 1113.00

EXISTING TERRAIN PROFILE

VPI STA 207+55.00'AT'
VPI EL 1119.229

HIGH POINT STA 207+54.83'AT'
HIGH POINT EL 1116.11

STA. 207+27'AT' - STA. 208+59'AT'
PEDESTRIAN OVERPASS OVER CTH PD
B-13-847
(SEE STRUCTURE PLANS)

VPT STA 208+80.00'AT'
VPT EL 1112.98

VCL = 100.00
K = 22.22

VPC STA 210+65.00'AT'
VPC EL 1103.73

VPI STA 211+15.00'AT'
VPI EL 1101.23

VPT STA 211+65.00'AT'
VPT EL 1100.98

PROPOSED 'AT' PROFILE

VCL = 250.00
K = 25.03

EXISTING 'AT' PROFILE ELEVATION

PROPOSED 'AT' PROFILE ELEVATION

-5.00%

-0.50%

1120.85	1120.61	1119.75	1105.65	1105.45	1114.55	1113.82	1108.44	1103.70	1107.88	1110.32	1112.80	1114.97
1111.50	1113.91	1115.51	1116.10	1115.70	1114.30	1111.98	1109.48	1106.98	1104.48	1102.25	1101.10	1100.80

206+00'AT' 207+00'AT' 208+00'AT' 209+00'AT' 210+00'AT' 211+00'AT' 212+00'AT'

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN AND PROFILE: ICE AGE JUNCTION PATH	SHEET 424	E

CTH PD (EB)

CTH PD (WB)

CAUTION

MATCH LINE STA. 212+00'AT'

ICE AGE JUNCTION PATH

SNOWCAP TRAIL

ICE AGE NATIONAL SCENIC TRAIL

R-13-309

R-13-310

REMOVE BOULDER WALL

SLOPE INTERCEPT (TYP.)

ALLIANT ENERGY (ELECTRIC)

CHARTER (COMMUNICATIONS)

EXISTING LOOKOUT TO REMAIN

TREE CLEARING AND GRUBBING

R/W

PLE

TLE

P.L.

N

5

5

VCL = 100.00
K = 22.22

VPT STA 211+65.00'AT'
VPT EL 1100.98

VPC STA 212+32.50'AT'
VPC EL 1100.64

VPI STA 212+85.00'AT'
VPI EL 1100.379

VPT STA 213+37.50'AT'
VPT EL 1097.76

EXISTING TERRAIN PROFILE

EXISTING ROCK PROFILE

PROPOSED CTH PD PROFILE

-0.50%

-4.99%

VCL = 105.00
K = 23.39

VCL = 95.00
K = 9.51

VPC STA 215+38.50'AT'
VPC EL 1087.73

VPI STA 215+86.00'AT'
VPI EL 1085.36

LOW POINT STA 215+85.95
LOW POINT EL 1086.55

VPT STA 216+33.50'AT'
VPT EL 1087.73

STA 216+96.86'AT'
EL 1090.90

5.00%

PROPOSED 'AT' PROFILE

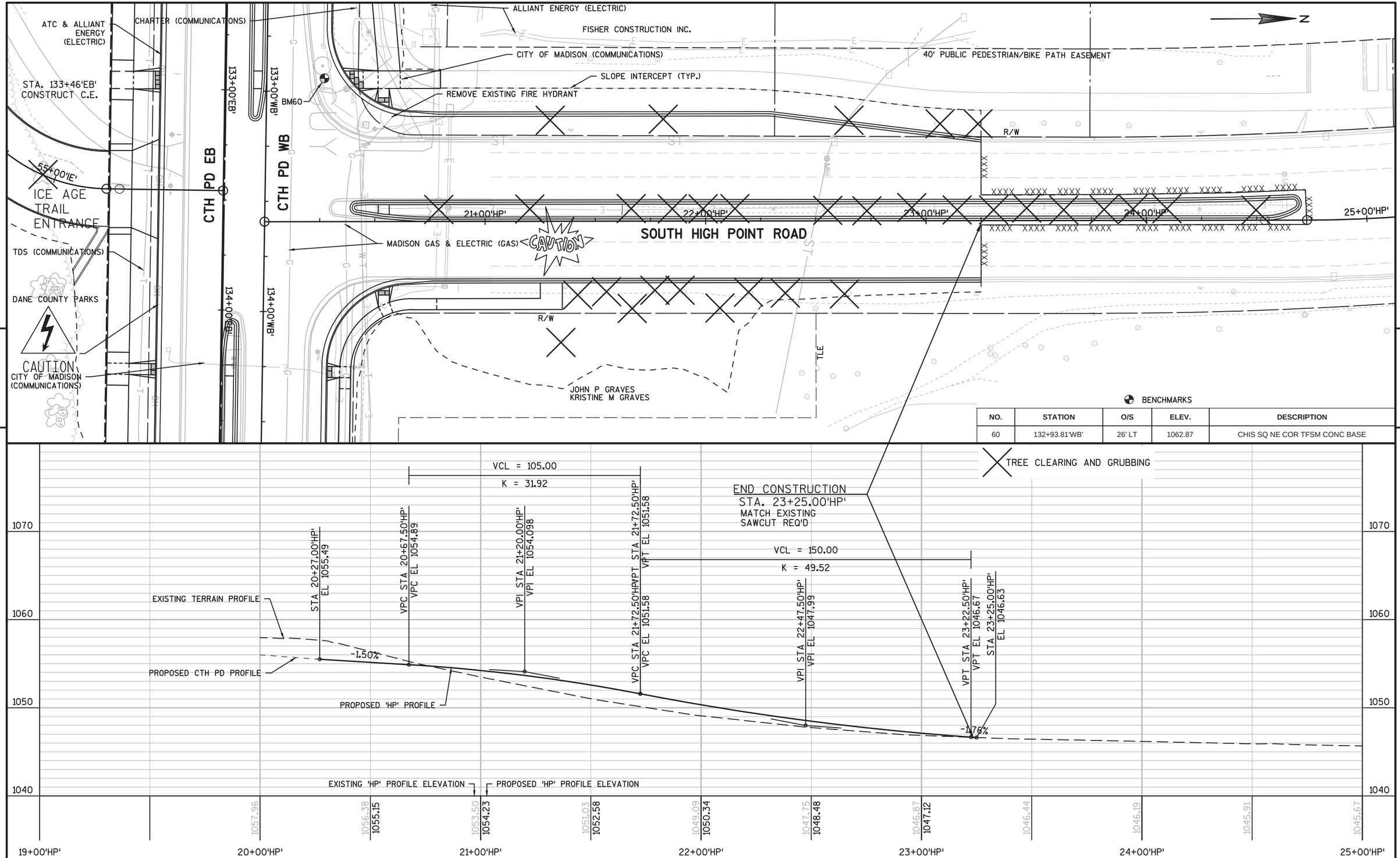
EXISTING 'AT' PROFILE ELEVATION

PROPOSED 'AT' PROFILE ELEVATION

END CONSTRUCTION
STA. 216+96.86'AT'
MATCH EXISTING
SAWCUT REQ'D

1110
1100
1090
1080

| | | |



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN AND PROFILE: SOUTH HIGH POINT ROAD	SHEET 426	E

NO.	STATION	O/S	ELEV.	DESCRIPTION
56	152+84.87'WB'	32' LT	992.20	SW FLANGE BOLT HYD

TREE CLEARING AND GRUBBING

MADISON METRO SEWERAGE DISTRICT (SANITARY)

JAMES BORLAUG
GWEN BORLAUG

EXISTING SIGN AND LANDSCAPING TO REMAIN

SLOPE INTERCEPT (TYP.)

COUNTRY GROVE DRIVE

52+00'CM'

53+00'CM'

54+00'CM'

TDS (COMMUNICATIONS)

ALLIANT ENERGY (ELECTRIC)

CAUTION

CTH PD EB

CTH PD WB

152+00'EB'

152+00'WB'

MADISON GAS & ELECTRIC (GAS)

REMOVE EXISTING FIRE HYDRANT

CITY OF MADISON STORM WATER UTILITY #533

CITY OF MADISON (SANITARY)

MUIR FIELD ROAD

55+00'CM'

56+00'CM'

57+00'CM'

CHARTER (COMMUNICATIONS)

CITY OF MADISON (WATER)

CAUTION

TDS (COMMUNICATIONS)

ROBIN WESTHAVEN, LLC

REMOVE EXISTING FIRE HYDRANT

END CONSTRUCTION
STA. 56+00'CM'
MATCH EXISTING
SAWCUT REQ'D

BEGIN CONSTRUCTION
STA. 52+55.76'CM'
MATCH EXISTING
SAWCUT REQ'D

VCL = 105.00
K = 26.85

STA 52+55.76'CM'
EL 985.87

STA 53+36.56'CM'
EL 987.98

STA 54+03.83'CM'
EL 989.33

STA 54+76.84'CM'
EL 989.30

LOW POINT STA 55+01.22
LOW POINT EL 989.21

VPI STA 55+40.00'CM'
VPI EL 988.97

STA 56+00.00'CM'
EL 991.01

PROPOSED 'CM' PROFILE

2.61%

2.00%

-0.51%

3.40%

PROPOSED 'CM' PROFILE

EXISTING TERRAIN PROFILE

PROPOSED CTH PD PROFILE

VPC STA 54+87.50'CM'
VPC EL 989.24

VPI STA 55+40.00'CM'
VPI EL 988.97

VPT STA 55+92.50'CM'
VPT EL 990.76

EXISTING 'CM' PROFILE ELEVATION

PROPOSED 'CM' PROFILE ELEVATION

1000
990
980
970

984.18 984.73 985.75 986.94 987.02 988.13 988.25 988.97 989.25 989.36 989.02 989.21 989.74 989.65 991.01 991.01 992.89 995.29 997.42

51+50'HP' 52+00'HP' 53+00'HP' 54+00'HP' 55+00'HP' 56+00'HP' 57+00'HP' 57+50'HP'

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN AND PROFILE: COUNTY GROVE DRIVE/MUIR FIELD ROAD	SHEET 427	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050104-PP-CM.DWG
LAYOUT NAME - 050101

PLOT DATE : 1/24/2017 11:41 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 44

CTH PD EB

CTH PD WB

151+00'EB'

151+00'WB'

150+00'WB'

EXISTING R/W

CITY OF MADISON (WATER)

MADISON GAS & ELECTRIC (GAS)

CITY OF MADISON (SANITARY)

B-13-0848

11+00'BM'

CHARTER (COMMUNICATIONS)

TDS (COMMUNICATIONS)

BEGIN CONSTRUCTION
STA. 11+05.05'BM'
MATCH B-13-0848 EXTENSION

12+00'BM'

WETLAND BOUNDARY

13+00'BM'

14+00'BM'

15+00'BM'

MATCH LINE STA. 16+00'BM'

N

MADISON METRO SEWERAGE DISTRICT (SANITARY)

SLOPE INTERCEPT (TYP.)

TREE CLEARING AND GRUBBING

P.L.

P.L.

5

5

1000

990

980

970

B-13-848
BOX CULVERT EXTENSION
(SEE STRUCTURE PLANS)

STA 11+05.05'BM'
EL 980.40

STA 11+25.40'BM'
EL 980.50

STA 11+31.59'BM'
EL 978.00

0.50%

-40.44%

DESIGN 'BM' PROFILE

EXISTING TERRAIN PROFILE

-0.00%

EXISTING 'BM' PROFILE ELEVATION

PROPOSED 'BM' PROFILE ELEVATION

988.91	981.25	979.01	981.50	978.00	987.07	978.00	984.10	978.00	984.33	978.00	984.09	978.00	984.32	978.00	985.22	978.00	986.42	978.00	986.53	978.00	978.24	978.00

10+00'BM' 11+00'BM' 12+00'BM' 13+00'BM' 14+00'BM' 15+00'BM' 16+00'BM'

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN AND PROFILE: BADGER MILL CREEK	SHEET 428	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050106-PP-BM.DWG
LAYOUT NAME - SHEET - (2)
PLOT DATE : 10/26/2016 8:19 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

WETLAND BOUNDARY

17+00'BM'

18+00'BM'

19+00'BM'

20+00'BM'

16+00'BM'

MATCH LINE STA. 16+00BM'

SLOPE INTERCEPT (TYP.)

END CONSTRUCTION
STA. 20+14.55'BM'
MATCH EXISTING

TREE CLEARING AND GRUBBING

N

5

5

STA 19+18.20'BM'
EL 978.00

STA 19+24.45'BM'
EL 980.40

STA 20+14.55'BM'
EL 981.29

990

980

970

960

DESIGN 'BM' PROFILE

EXISTING TERRAIN PROFILE

38.40%

0.99%

EXISTING 'BM' PROFILE ELEVATION

PROPOSED 'BM' PROFILE ELEVATION

978.24 978.00 977.21 978.00 978.10 978.00 978.76 978.00 979.85 978.00 980.64 978.00 980.46 978.00 980.92 980.65 981.28 981.15 981.55 981.71

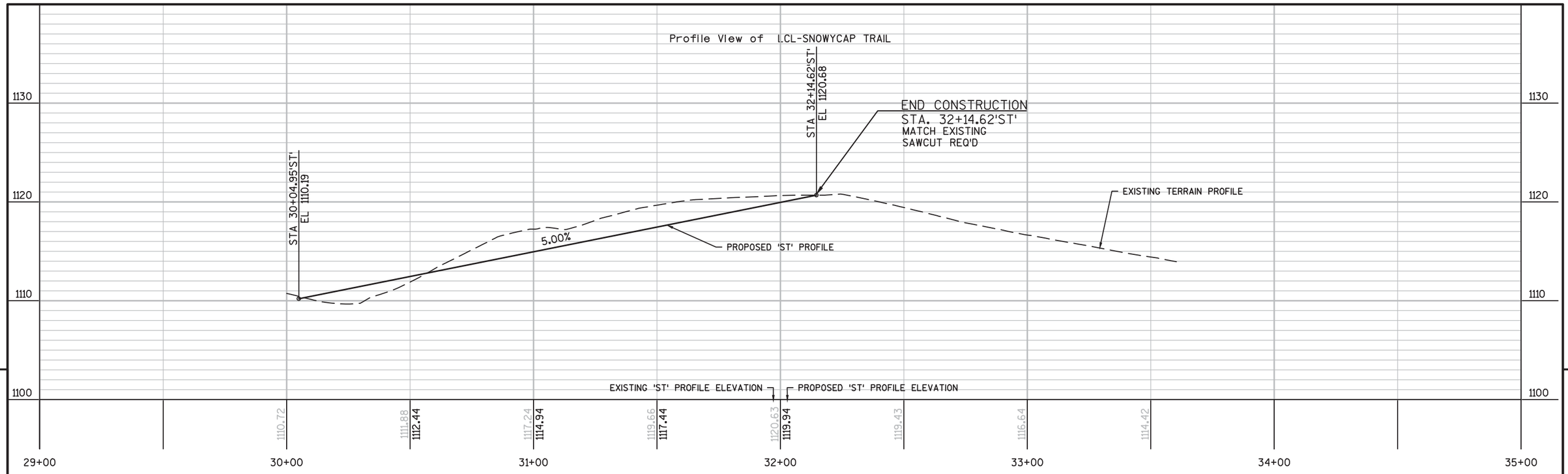
16+00'BM' 17+00'BM' 18+00'BM' 19+00'BM' 20+00'BM' 21+00'BM' 22+00'BM'

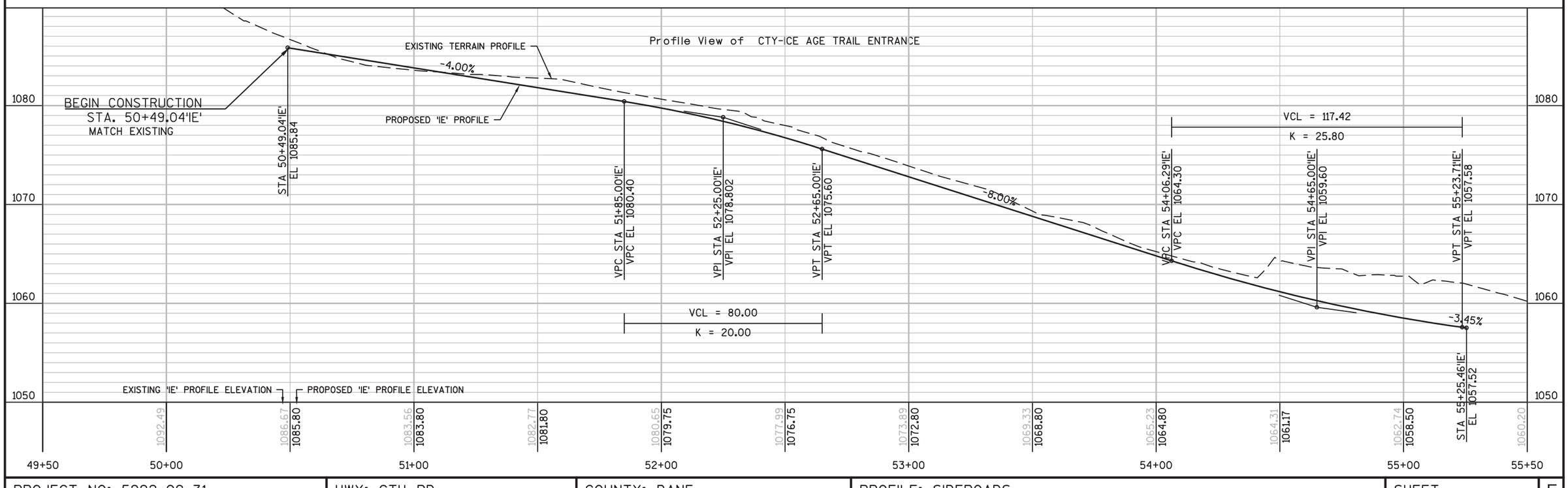
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PLAN AND PROFILE: BADGER MILL CREEK	SHEET 429	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050106-PP-BM.DWG
LAYOUT NAME - SHEET - (3)

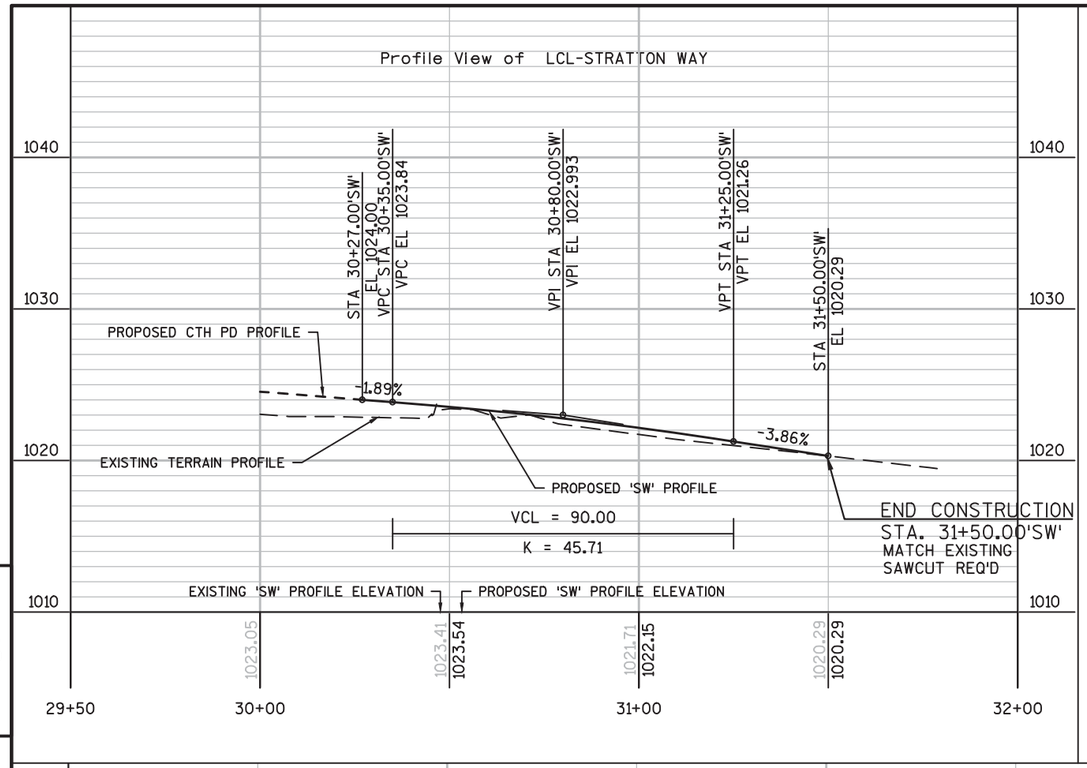
PLOT DATE : 10/26/2016 8:19 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:40 FT

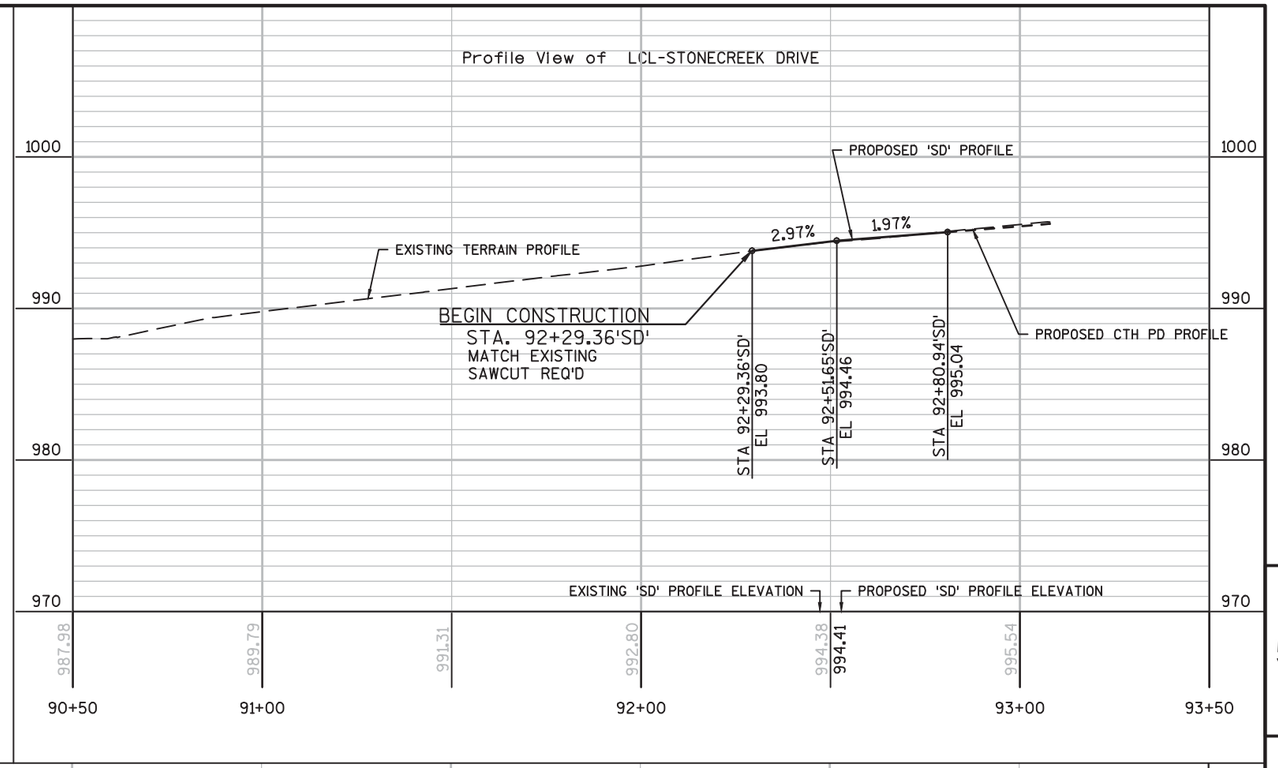
WISDOT/CADDS SHEET 44

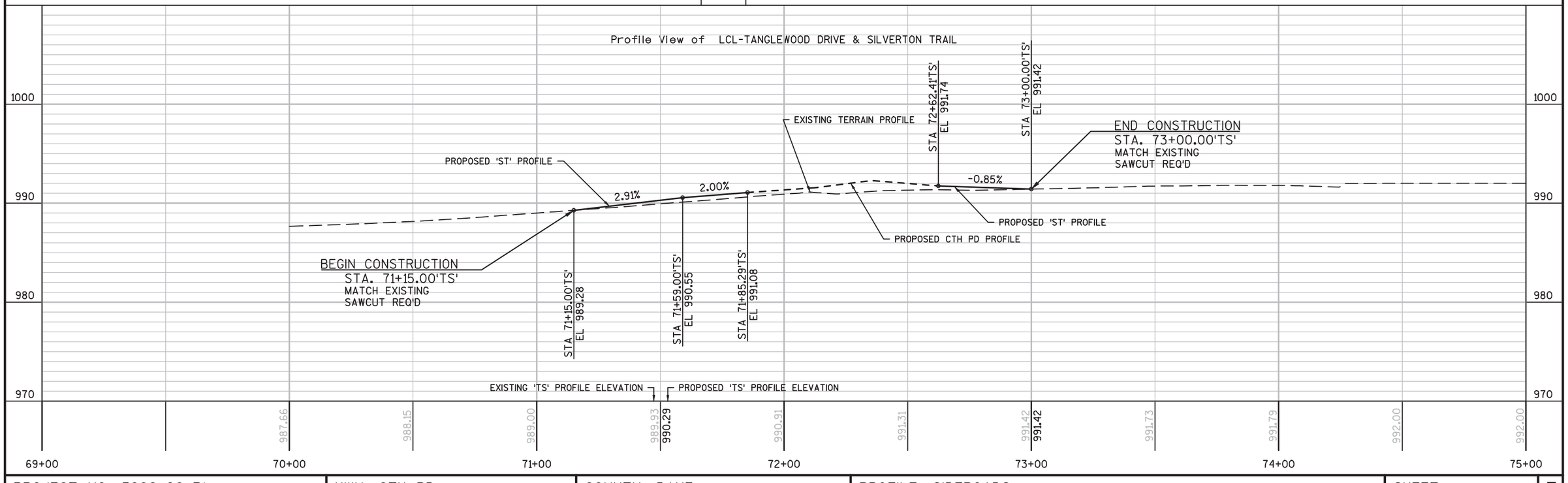




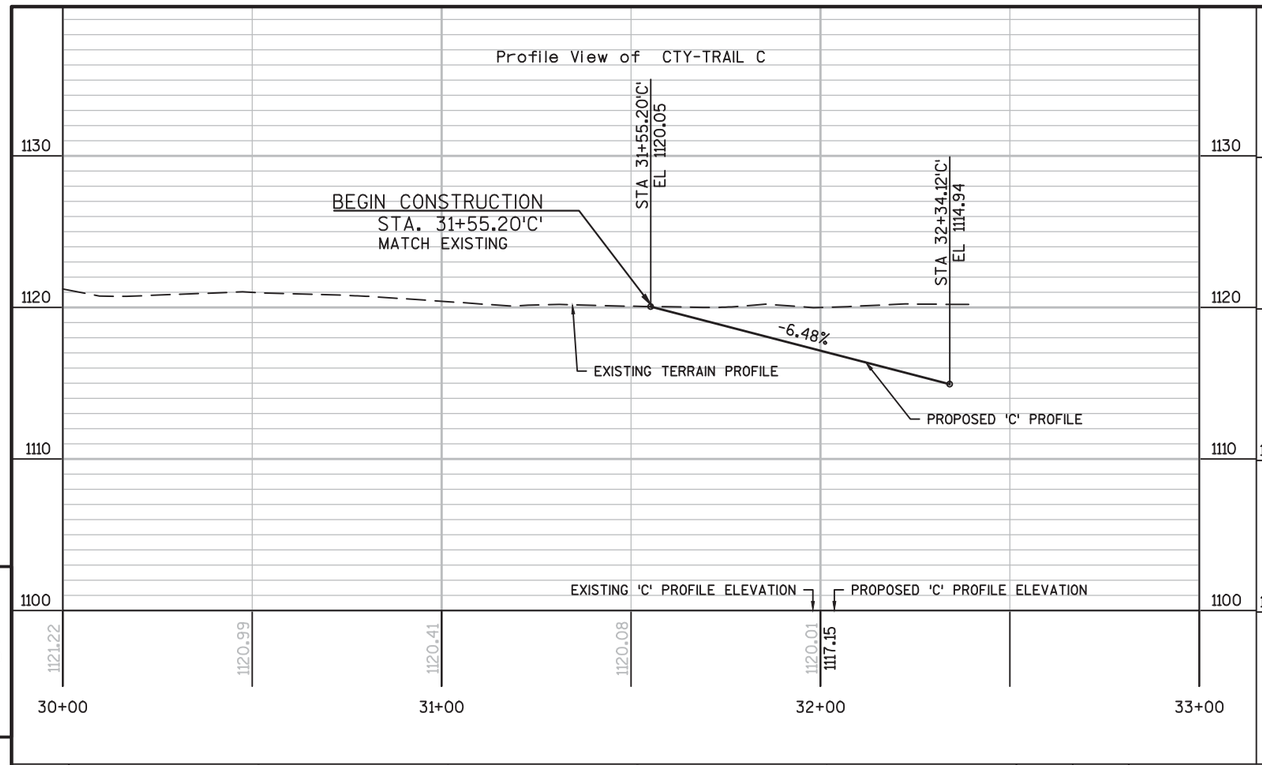
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PROFILE: SIDEROADS	SHEET 430	E

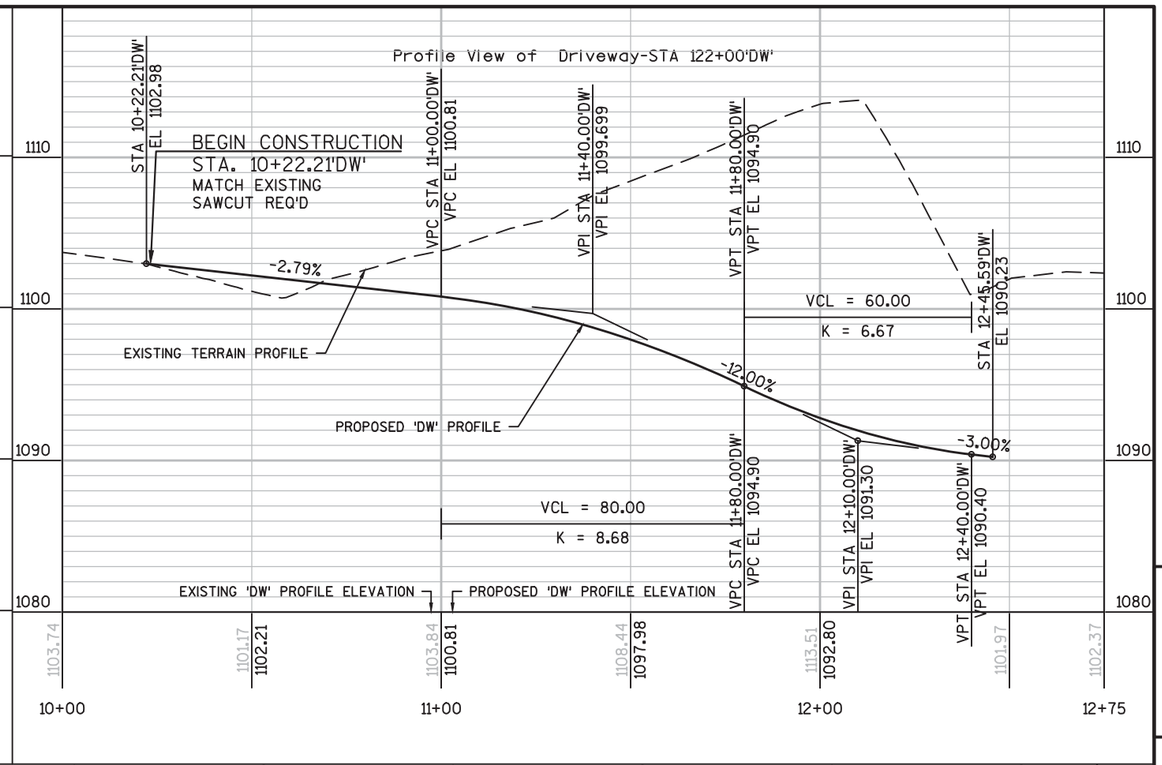


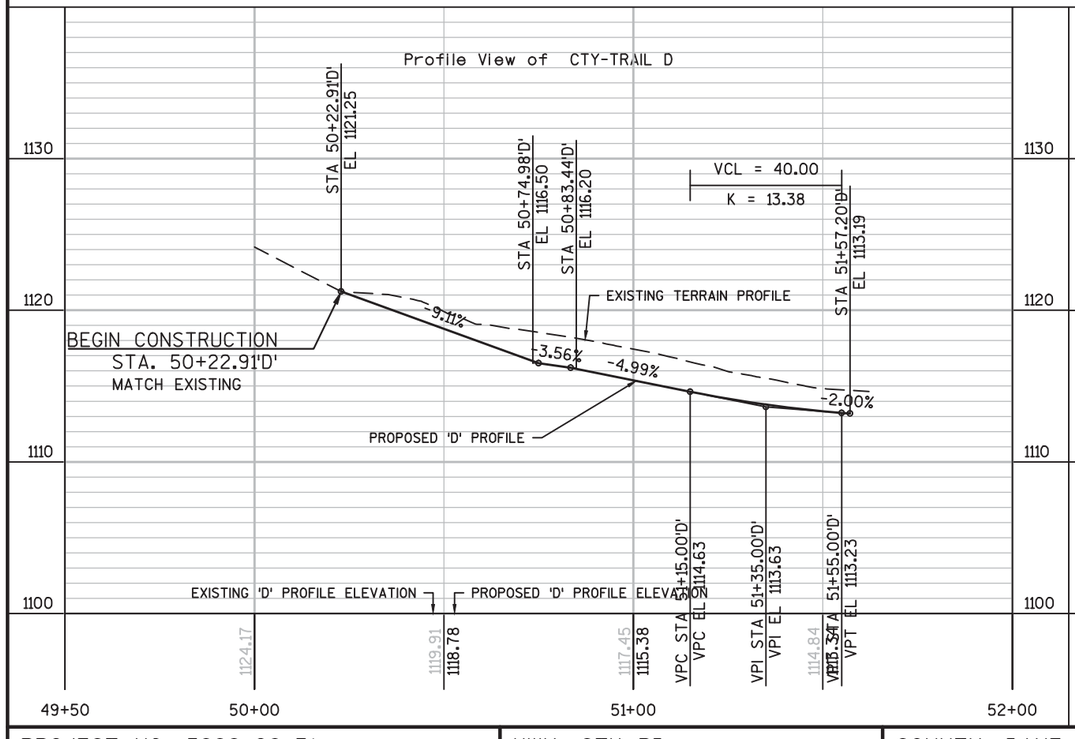


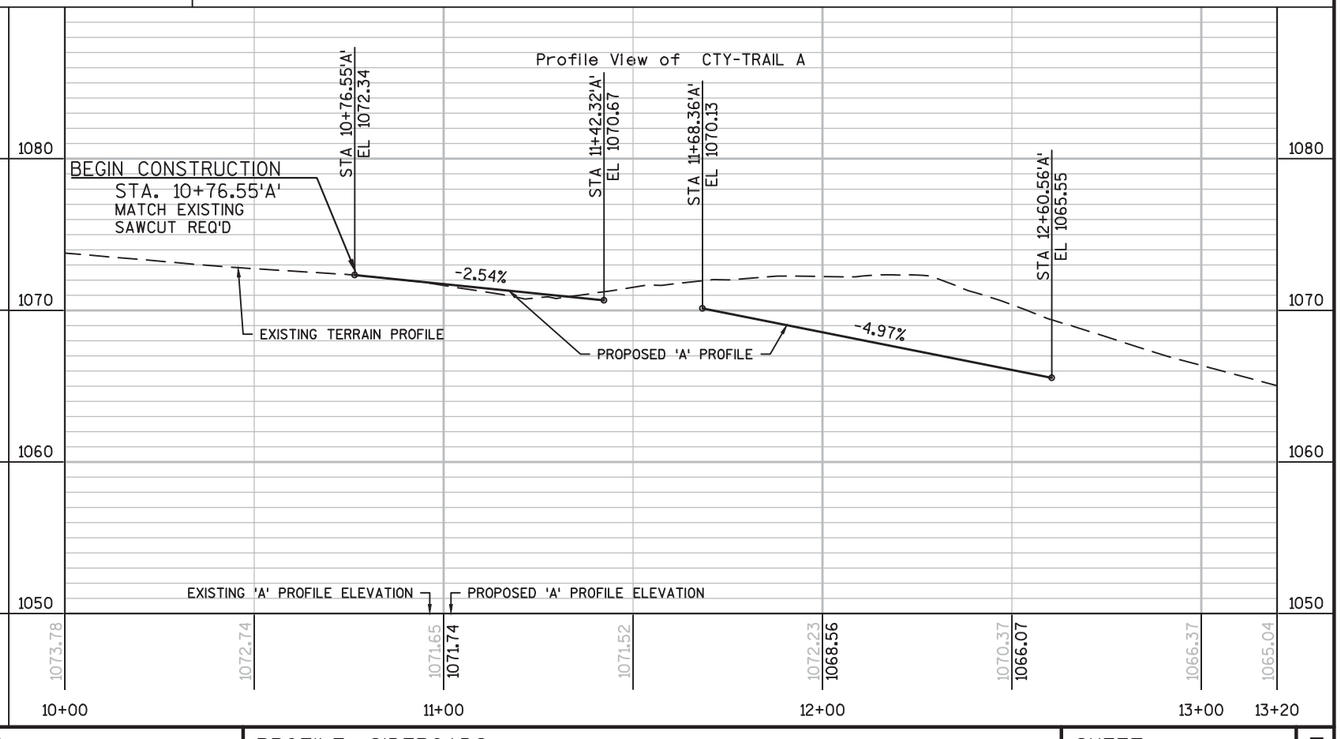


PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PROFILE: SIDEROADS	SHEET 431	E









PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	PROFILE: SIDEROADS	SHEET 432	E

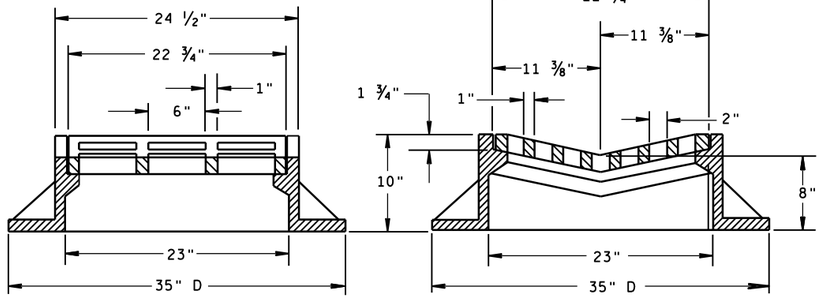
Standard Detail Drawing List

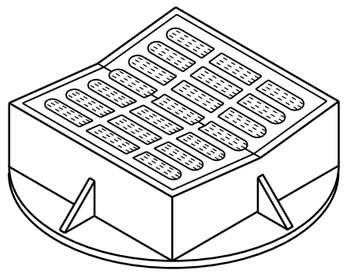
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-17A	CURB RAMPS TYPES 1 AND 1-A
08D05-17B	CURB RAMPS TYPES 2 AND 3
08D05-17C	CURB RAMPS TYPES 4A AND 4A1
08D05-17D	CURB RAMPS TYPE 4B AND 4B1
08D05-17E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-09	CONDUIT
09C03-04	TRANSFORMER/PEDESTAL BASES
09C11-09	CONCRETE BASE TYPE 10
09E01-14G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-05	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-07E	GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS
09E08-08A	TYPE 9 POLE 15'-30' MONOTUBE ARM
09F08-04	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW ASPHALTIC PAVEMENT)
09G01-04A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
13C18-03A	CONCRETE PAVEMENT JOINTING
13C18-03B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-03C	CONCRETE PAVEMENT JOINT TIES
13C18-03D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
14A02-01	TREE PLANTING DETAIL
14B07-14A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-13A	PAVEMENT MARKING SYMBOLS
15C07-13B	PAVEMENT MARKING WORDS
15C07-13C	PAVEMENT MARKING ARROWS
15C07-13E	PAVEMENT MARKING FOR BIKE LANES
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)

6

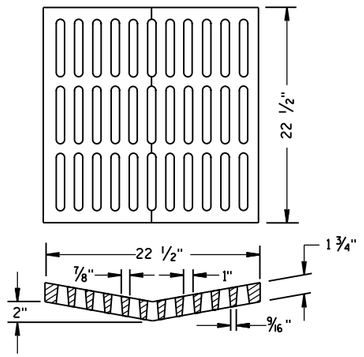
Standard Detail Drawing List

15C08-16F	PAVEMENT MARKING (ISLANDS)
15C11-06	FLEXIBLE TUBULAR MARKER POST
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C18-03	MEDIAN ISLAND MARKING
15C19-04C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C29-04A	BICYCLE LANE MARKING
15C31-01B	LANE DROP PAVEMENT MARKING
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D03-03	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER
15D06-03	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D29-04	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D30-03A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-03B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-03C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS



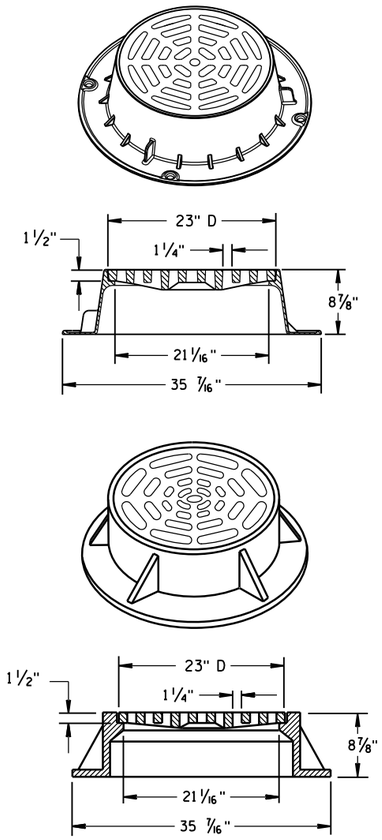


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

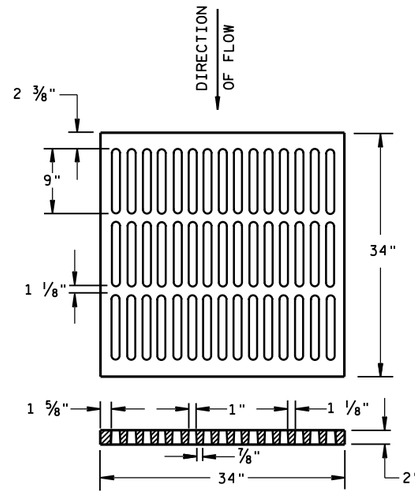
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

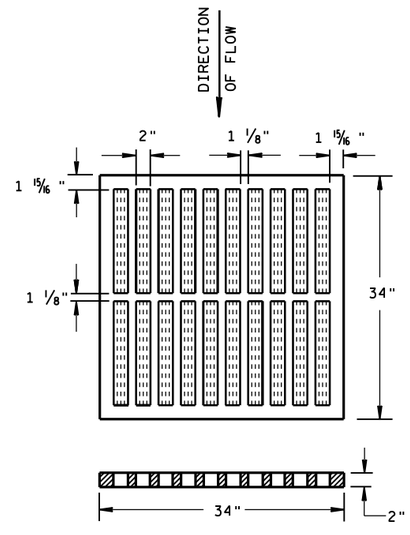
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



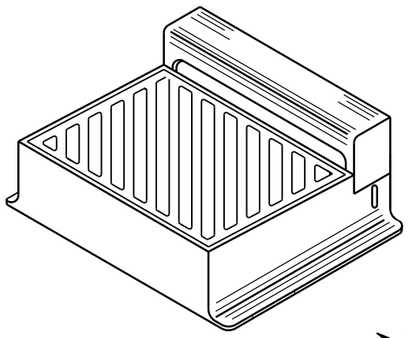
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

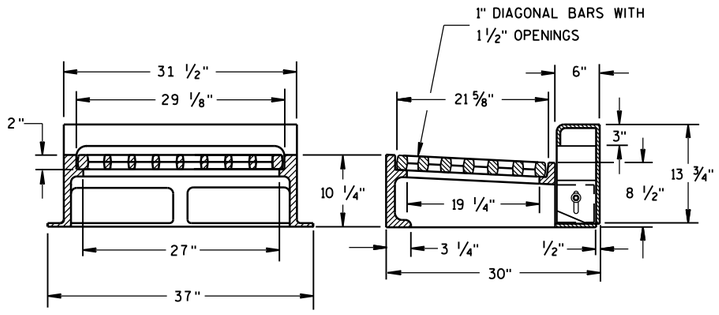


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

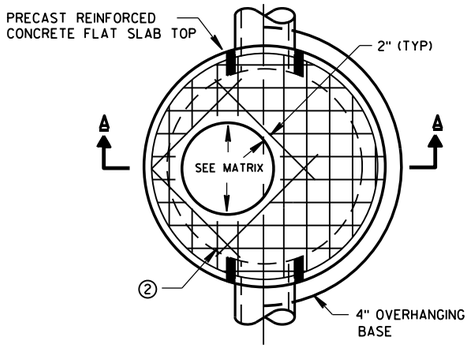
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

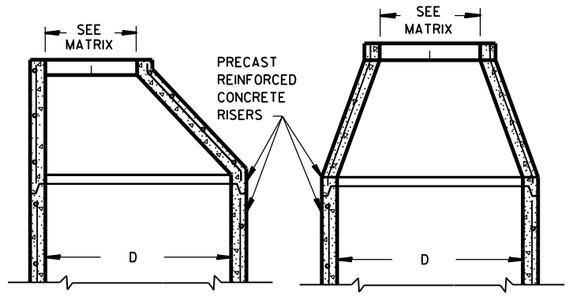
APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 A 5-19b

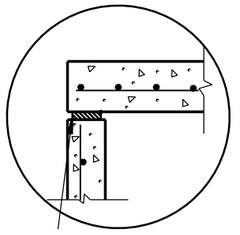


PLAN VIEW CIRCULAR OPENING

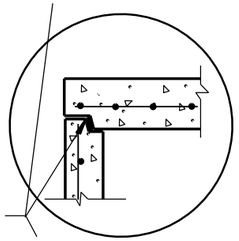


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

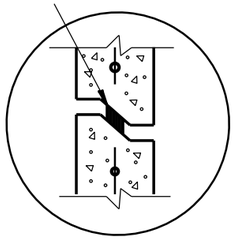


TOP WITH PLAIN END JOINT



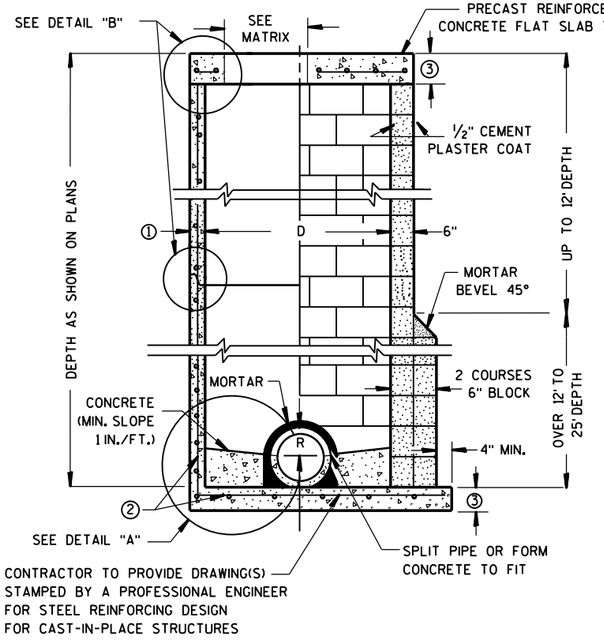
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



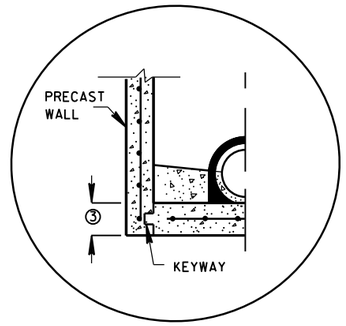
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

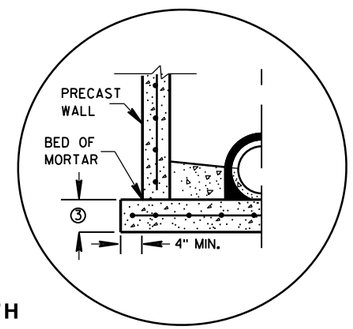


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

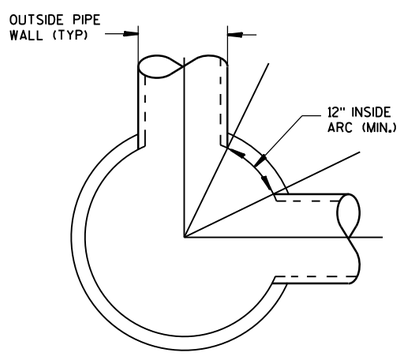


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

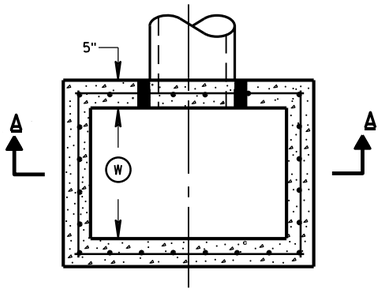
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

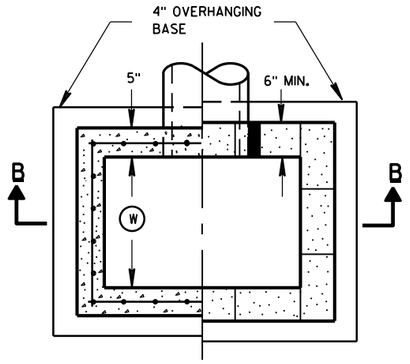
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

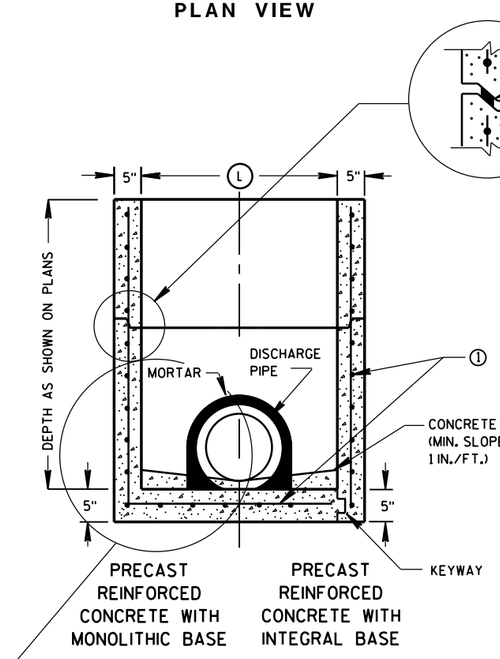
6
S.D.D. 8 B 9-1



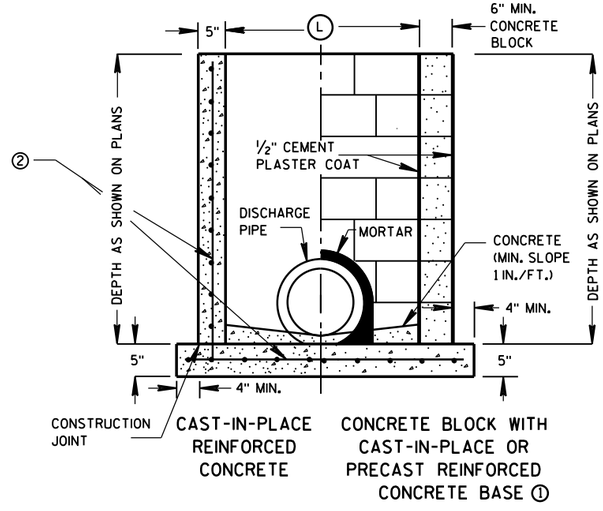
PLAN VIEW



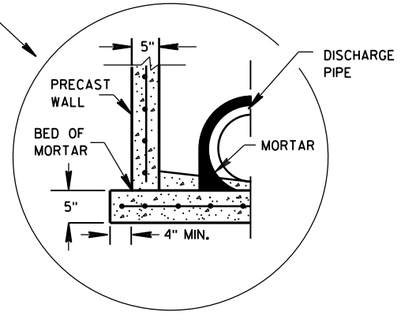
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

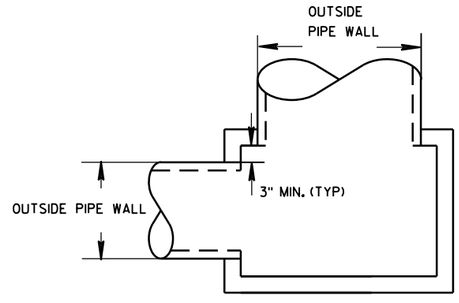
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

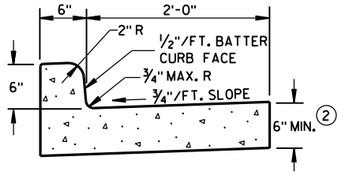
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

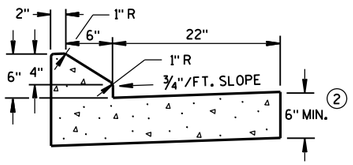
APPROVED
6/5/2012
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DE ENGINEER

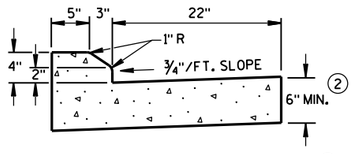
6
S.D.D. 8 C 7-1



TYPES A & D ①

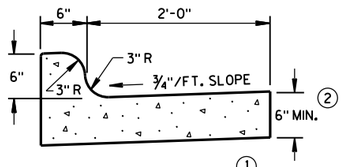


6" SLOPED CURB TYPES G & J ①

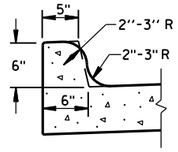


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

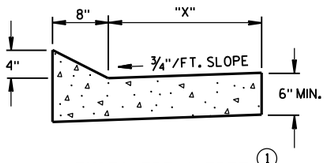


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

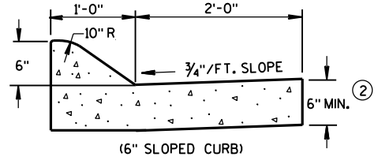
CONCRETE CURB & GUTTER 30"



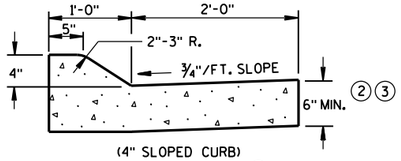
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

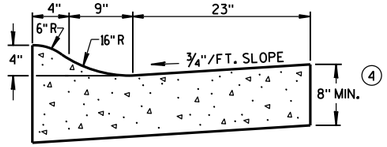


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

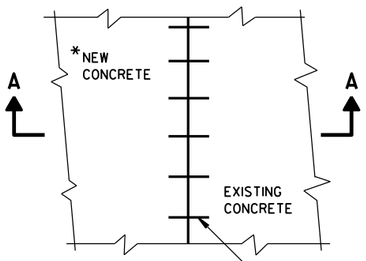
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

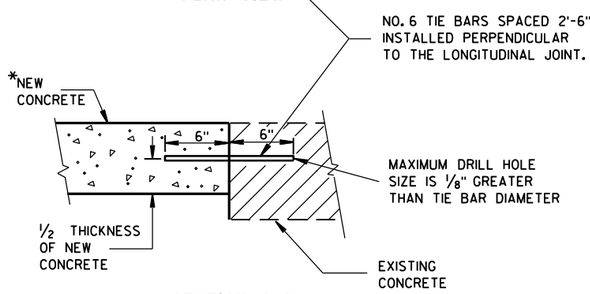
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



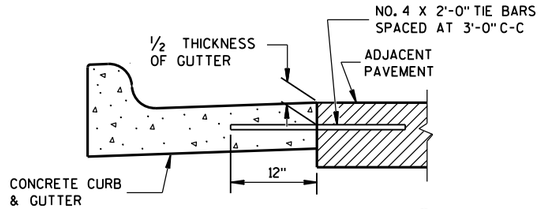
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

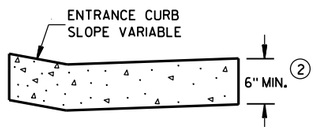


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

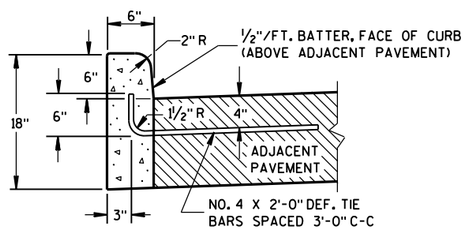


TYPICAL TIE BAR LOCATION ①

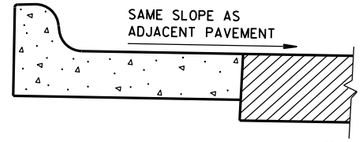


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

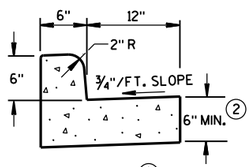


① TYPES A & D



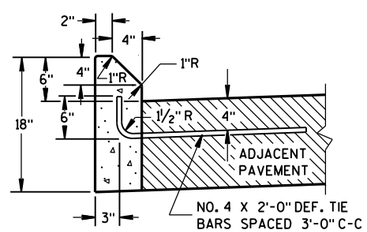
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



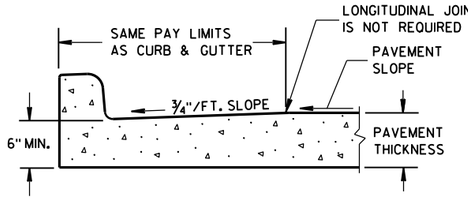
① TYPES A & D

CONCRETE CURB & GUTTER 18"

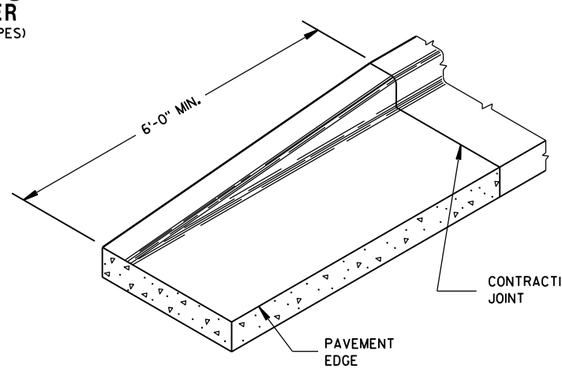


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June, 2016 — DATE

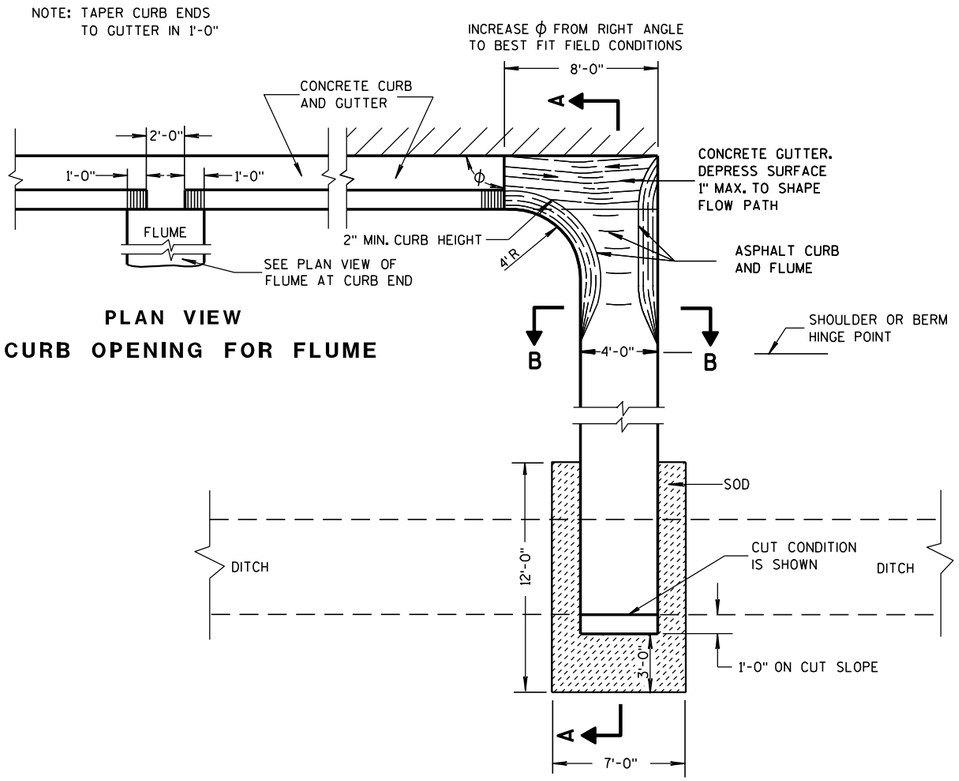
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

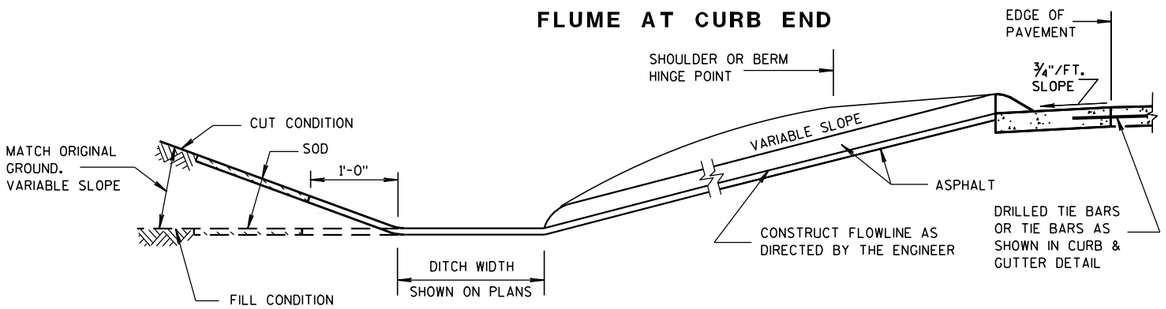
S.D.D. 8 D 1-19

ASPHALTIC FLUME

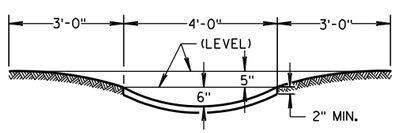


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

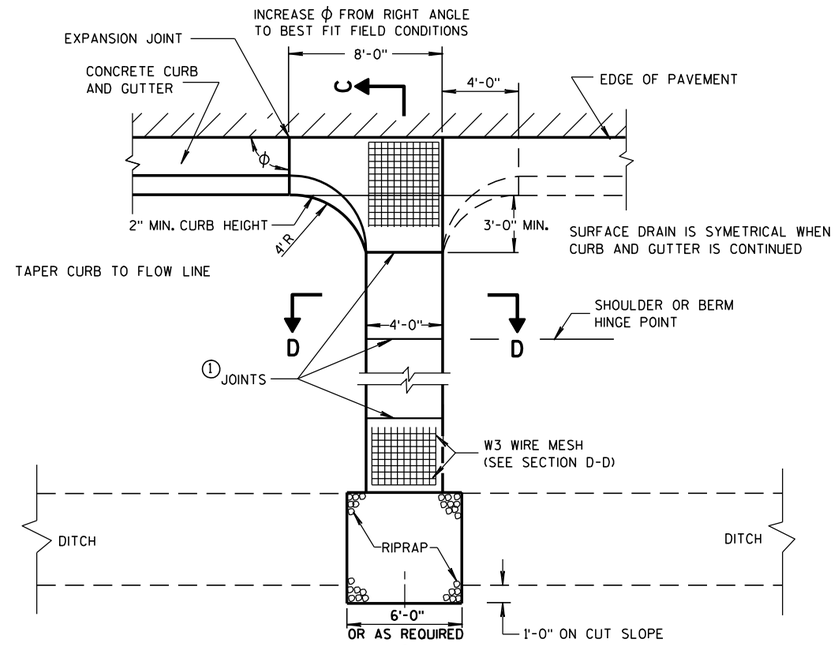
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

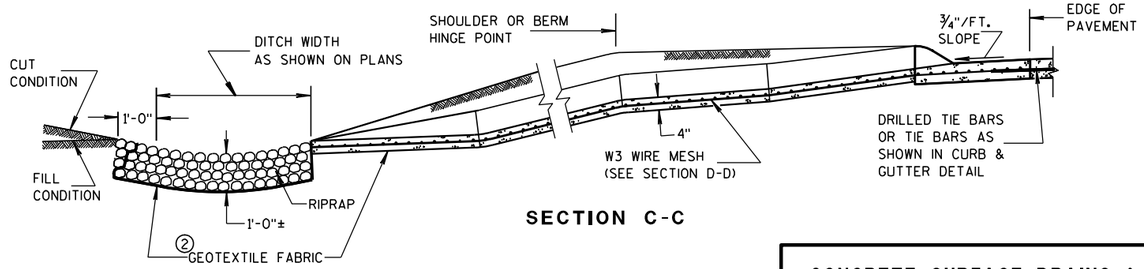
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

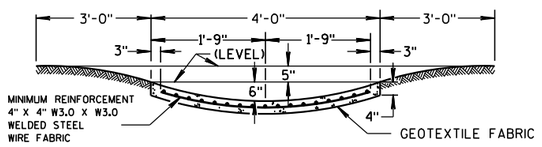
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C

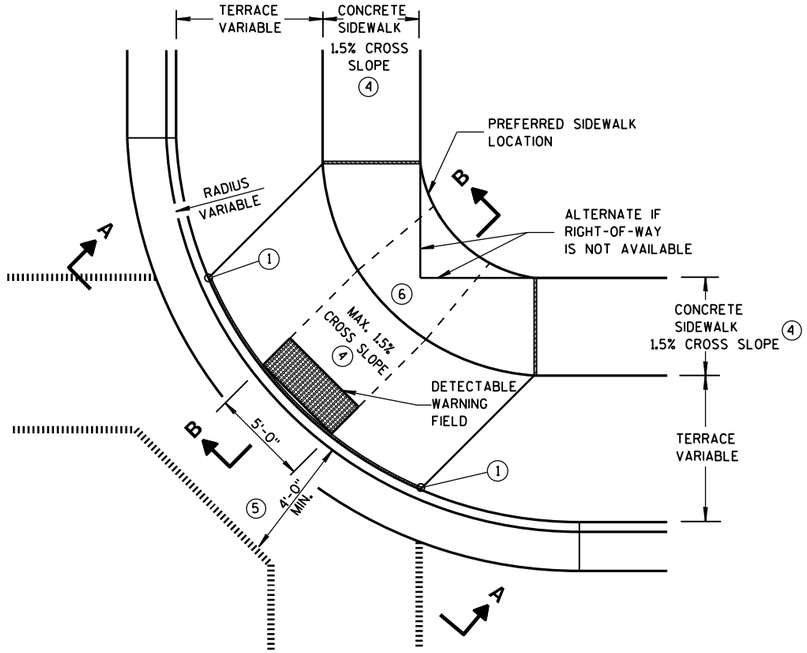


SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

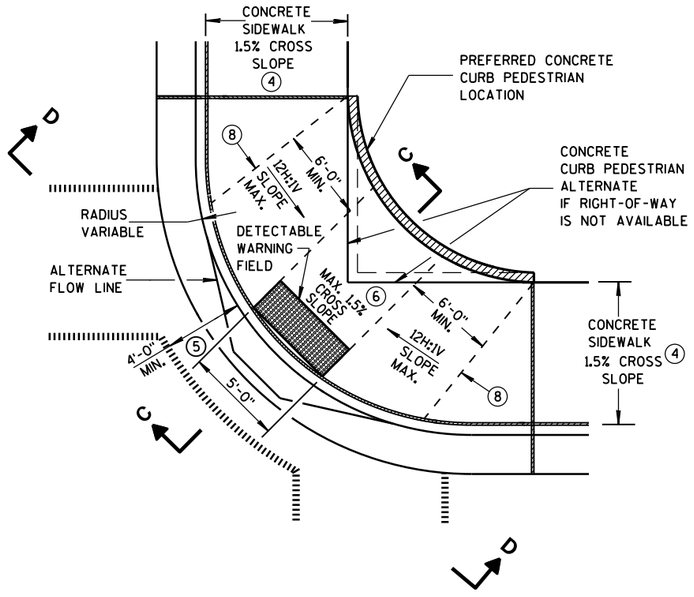
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
439
MENT
FHWA



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

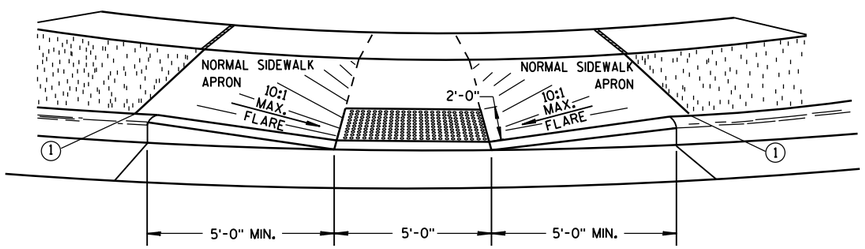
(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

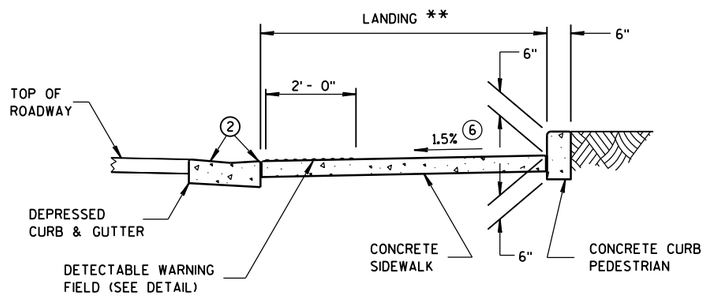
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.



VIEW A-A

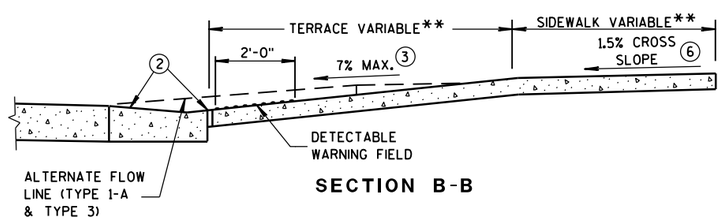
** WIDTH SHOWN ELSEWHERE IN THE PLANS



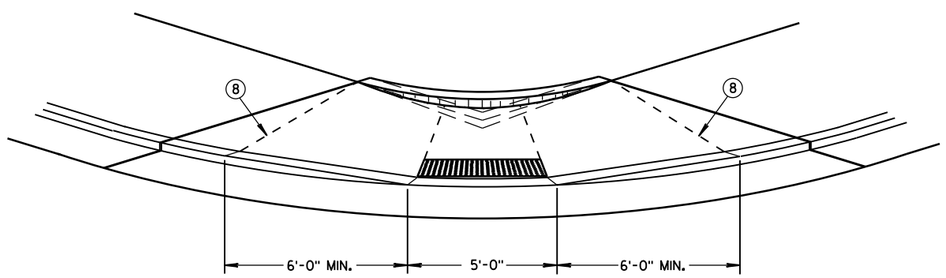
SECTION C-C

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



SECTION B-B



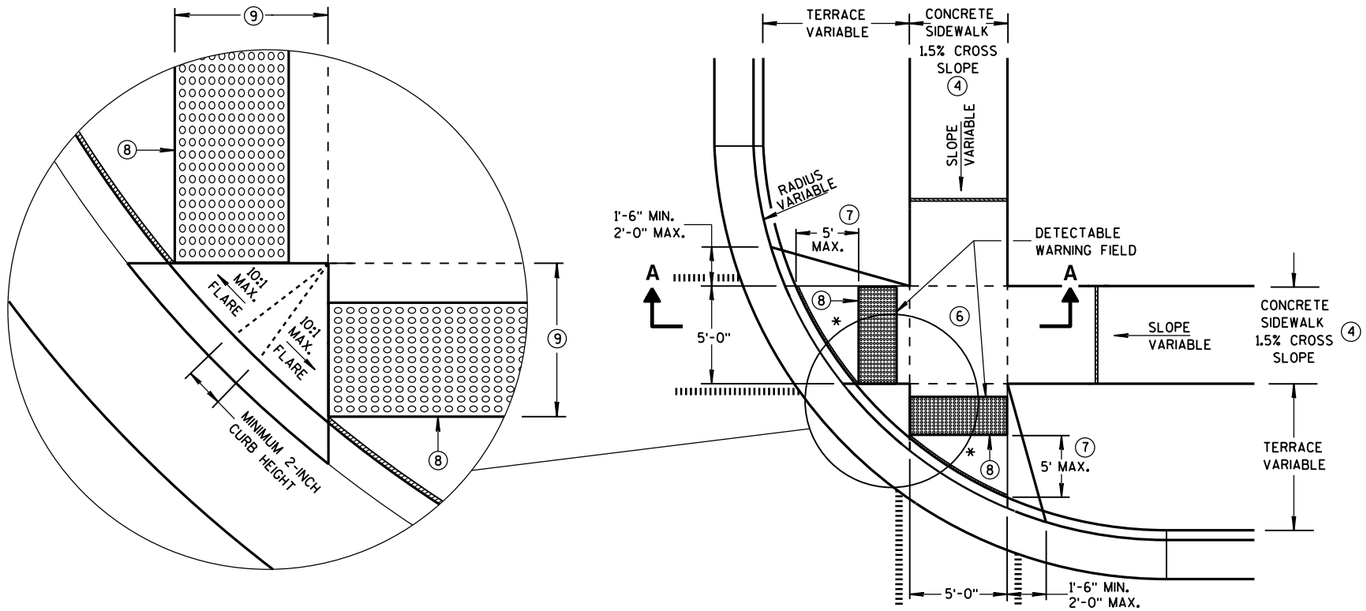
VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 8 D 5-17a

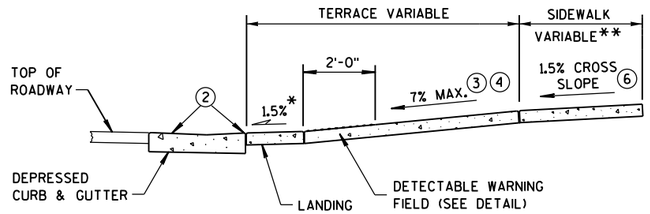


PLAN VIEW

TYPE 2 RAMP

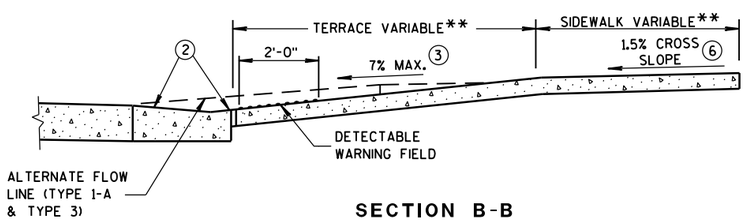
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

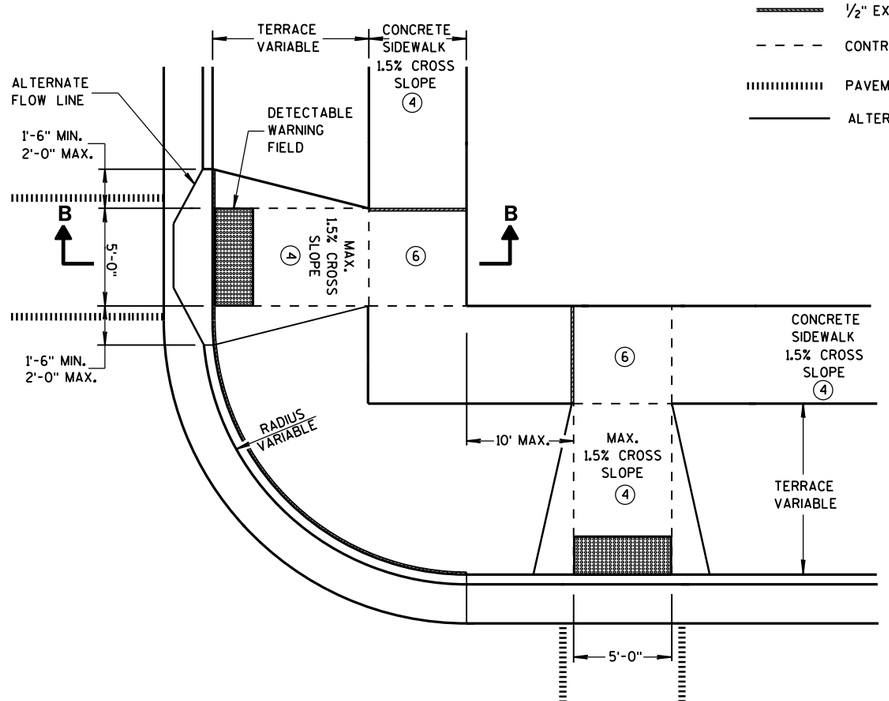
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



PLAN VIEW

TYPE 3 RAMP

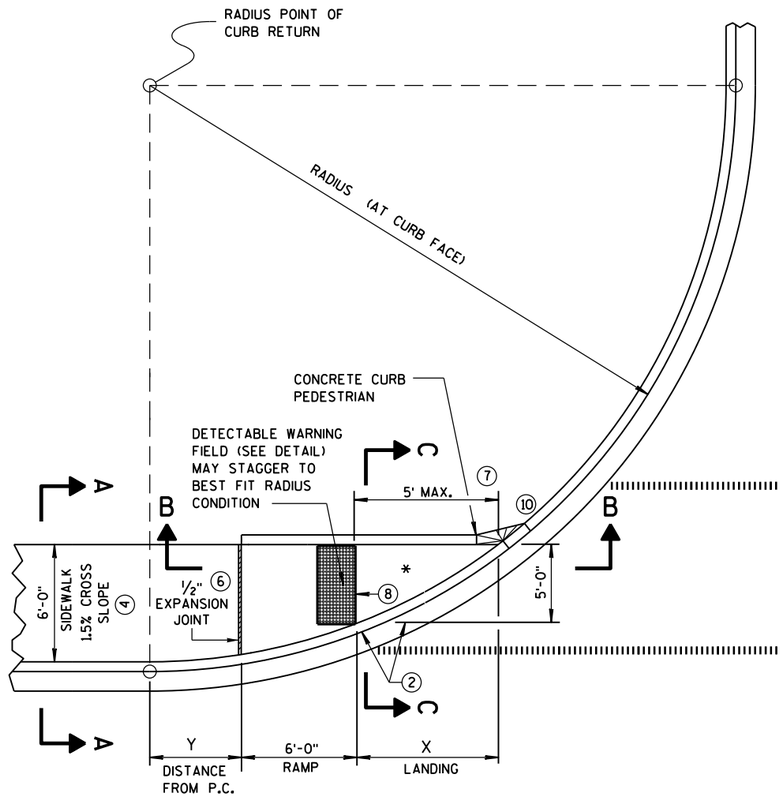
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

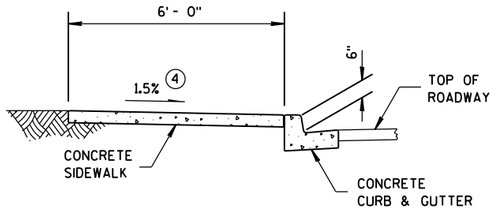
S.D.D. 8 D 5-17b



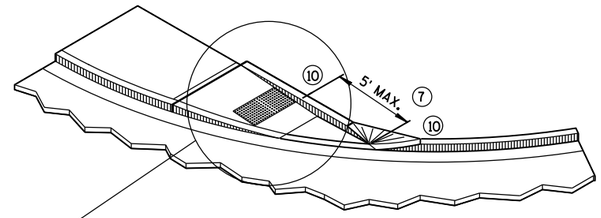
CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X	Y
20 FEET	7'-11"	0'-2"
30 FEET	10'-2¾"	1'-7½"
40 FEET	12'-1¼"	2'-10"
50 FEET	13'-8¾"	3'-10¾"
60 FEET	15'-2"	4'-10¼"

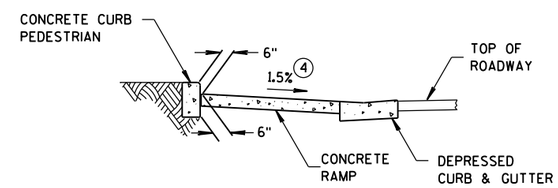
INTERMEDIATE RADII CAN BE INTERPOLATED



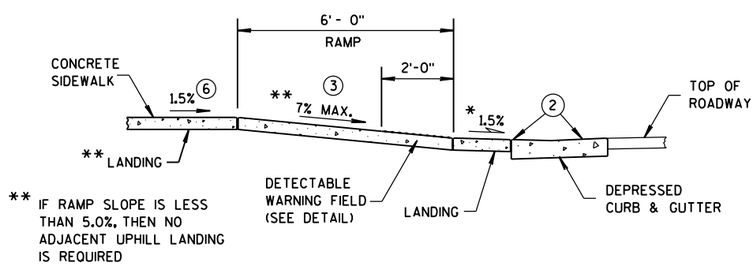
SECTION A-A FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A

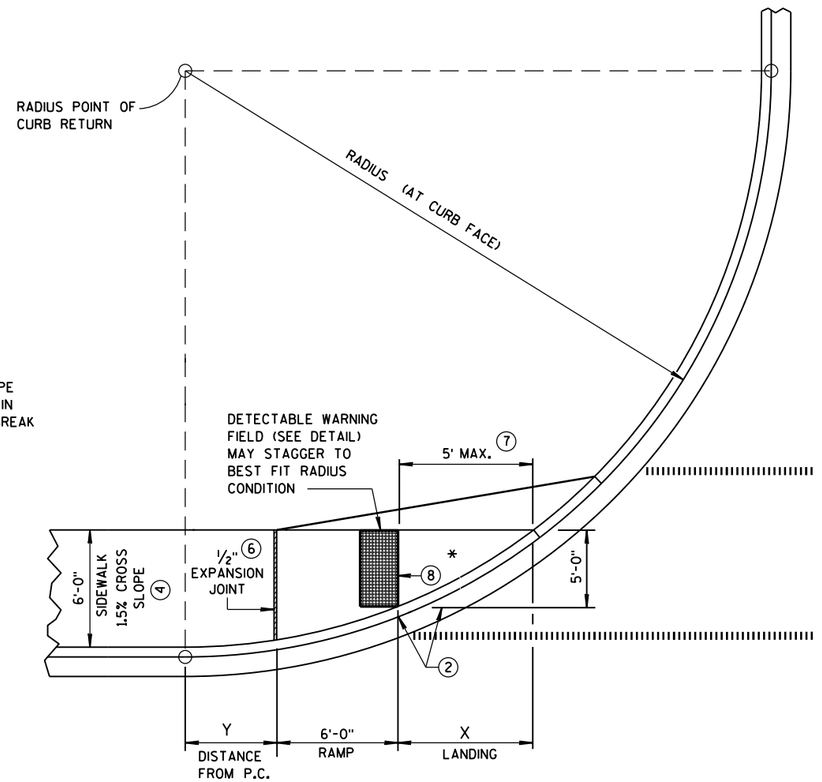


SECTION C-C FOR TYPE 4A



SECTION B-B FOR TYPE 4A

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



CURB RAMP TYPE 4A1
PLAN VIEW

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

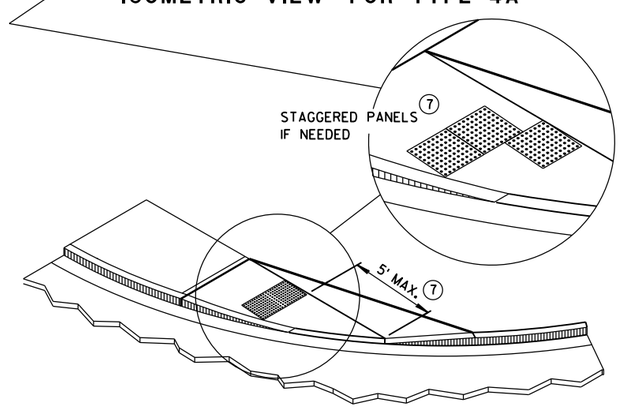
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

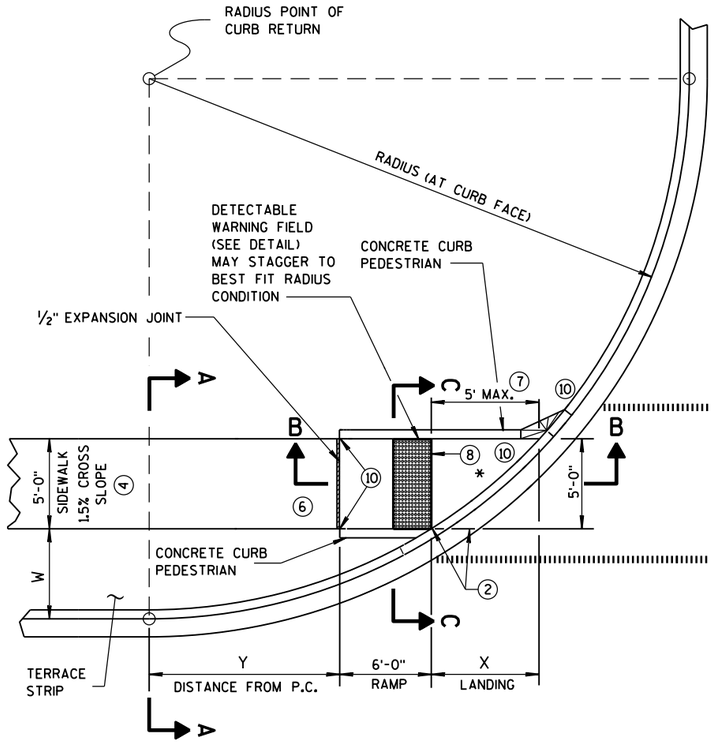
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

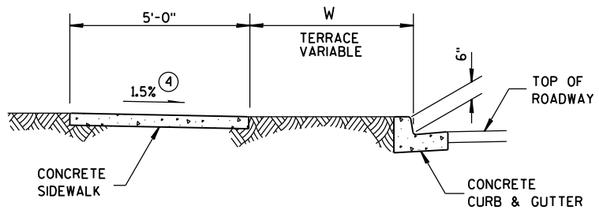
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

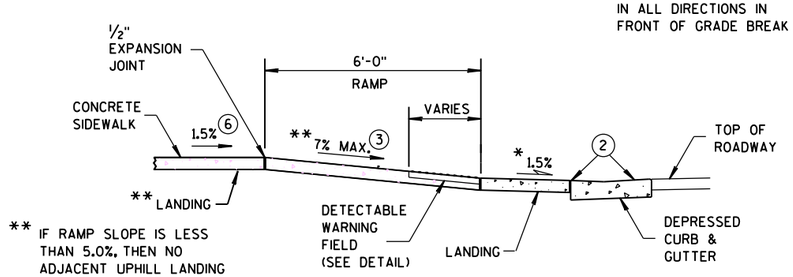
S.D.D. 8 D 5-17c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



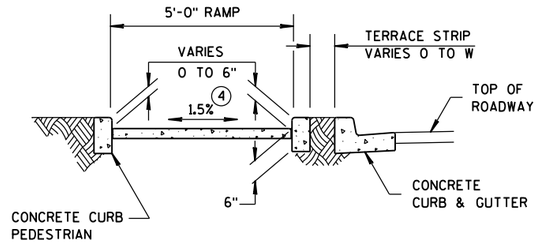
SECTION B-B FOR TYPE 4B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)



SECTION C-C FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-6¾"	3'-3"	8'-6¼"
30 FEET	7'-9¼"	5'-10½"	6'-9½"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"
40 FEET	9'-4"	7'-10"	8'-2¾"	10'-3"	7'-4¾"	12'-3¾"	6'-8½"	14'-1¼"	6'-1¾"	15'-8½"
50 FEET	10'-8"	9'-6½"	9'-5½"	12'-3¼"	8'-6½"	14'-7½"	7'-9¾"	16'-8¼"	7'-2½"	18'-6¼"
60 FEET	11'-10¼"	11'-0¾"	10'-6½"	14'-1¼"	9'-6½"	16'-8½"	8'-9¼"	18'-11¾"	8'-1½"	21'-0½"

INTERMEDIATE RADII CAN BE INTERPOLATED

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

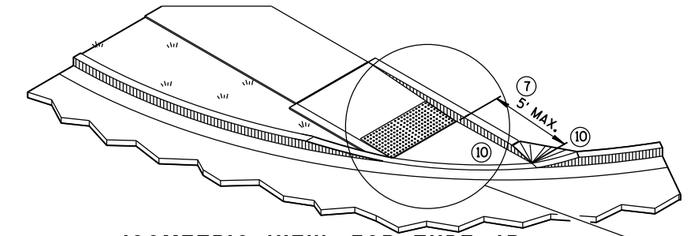
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

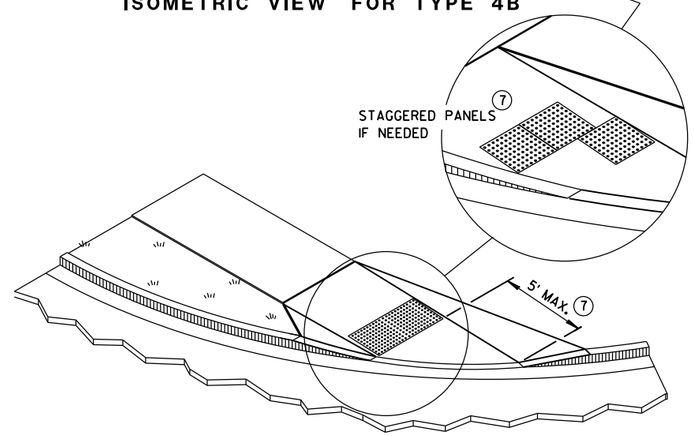
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

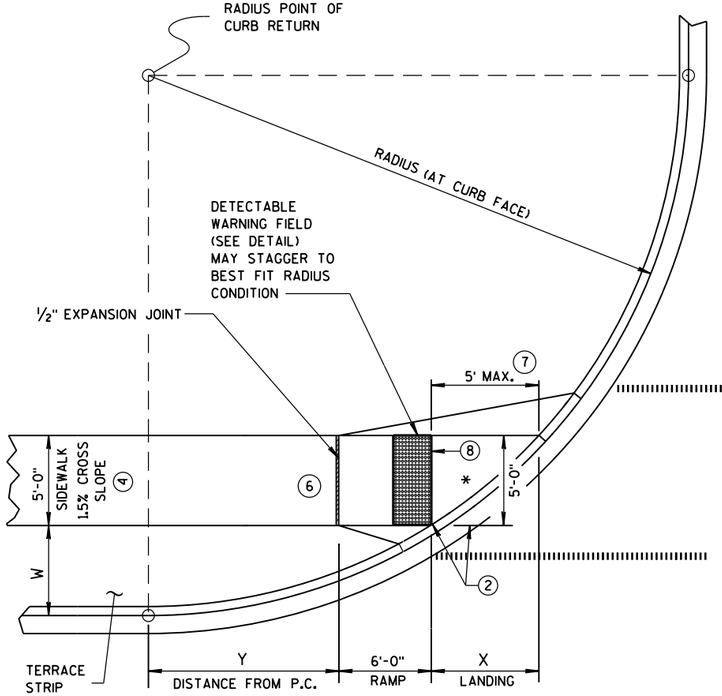
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1



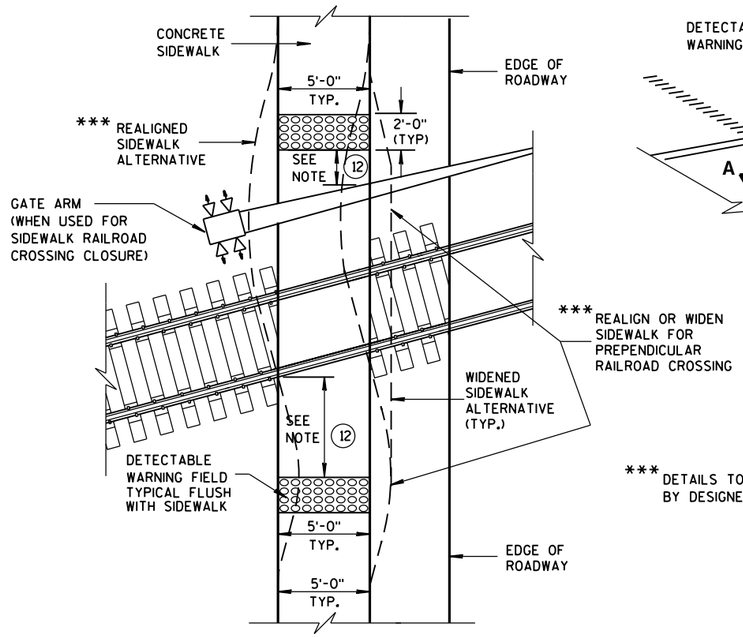
CURB RAMP TYPE 4B1
PLAN VIEW

CURB RAMPS
TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

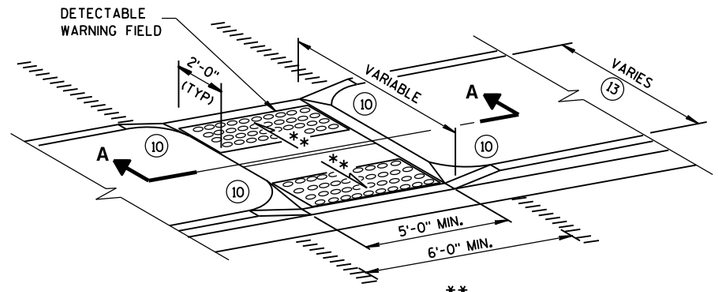
6

S.D.D. 8 D 5-17d



*** DETAILS TO BE DETERMINED BY DESIGNER

TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

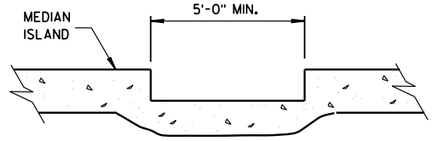
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

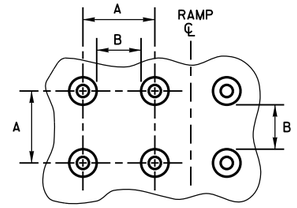
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS IF MEDIAN WIDTH BETWEEN BACK OF CURBS IS LESS THAN 6 FEET.



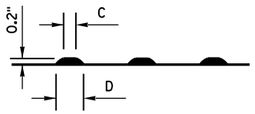
SECTION A-A

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

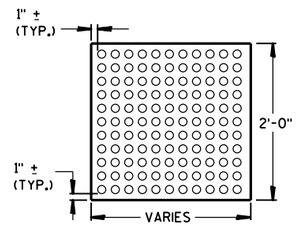


PLAN VIEW



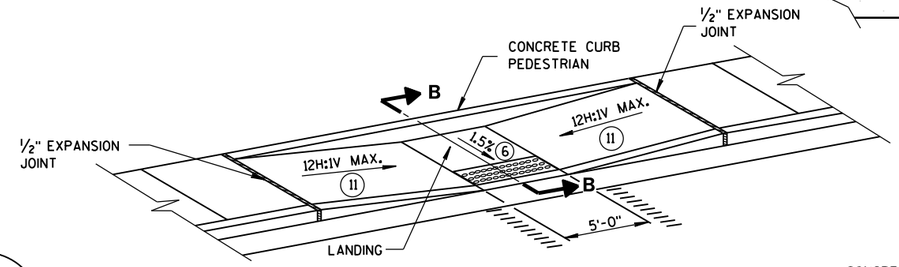
ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

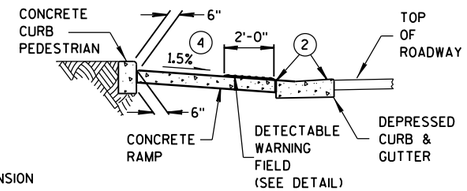


PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)

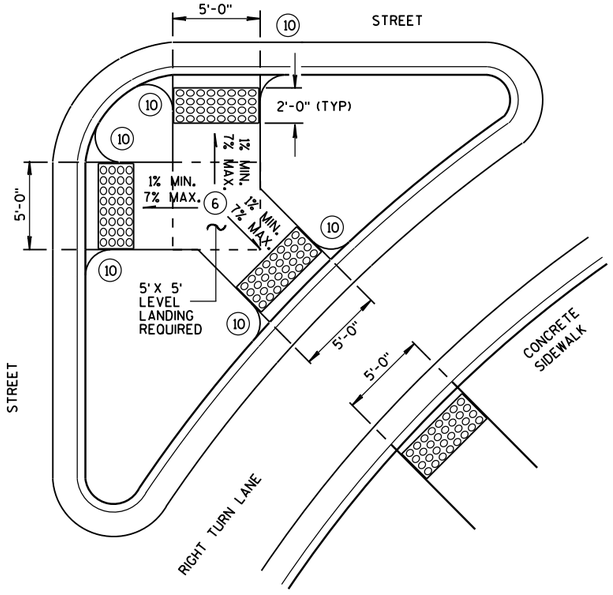


MID-BLOCK CROSSING
TYPE 7A

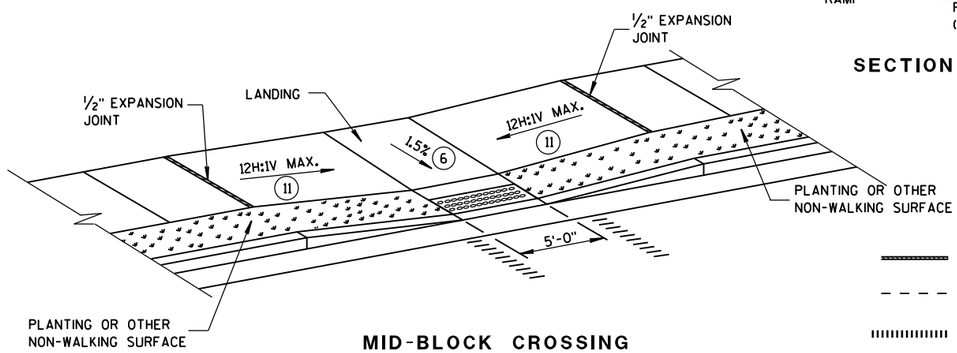


SECTION B-B

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

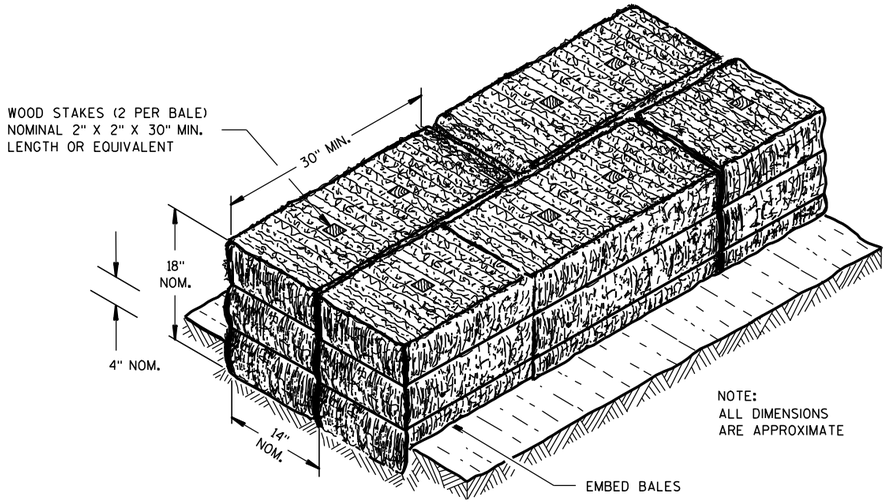
APPROVED
June, 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

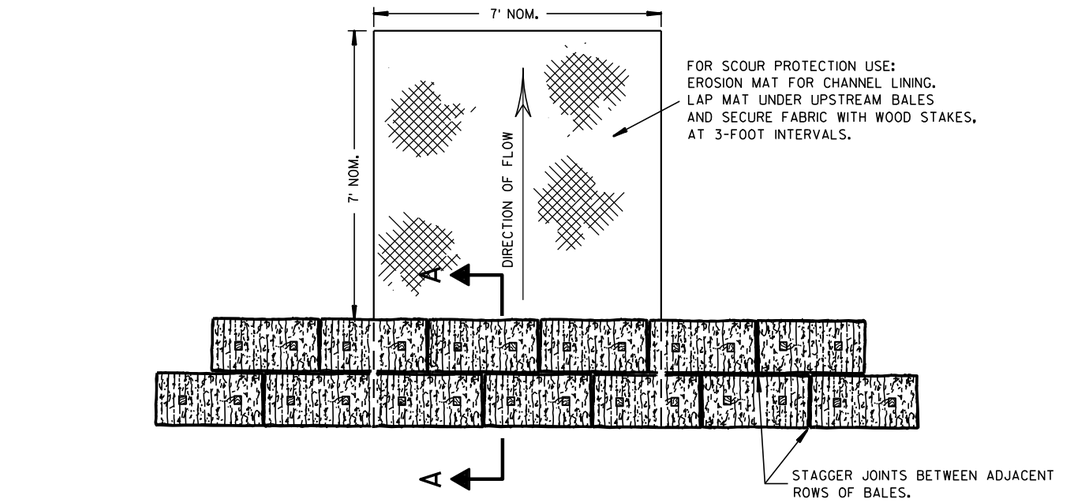
S.D.D. 8 D 5-17e

6

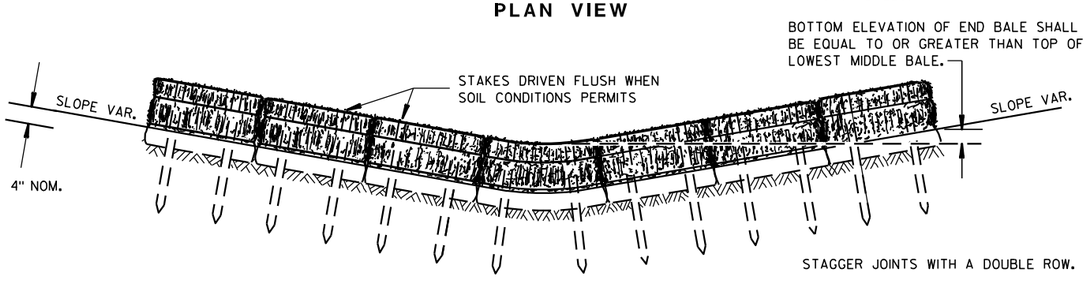
S.D.D. 8 D 5-17e



SECTION A-A



PLAN VIEW



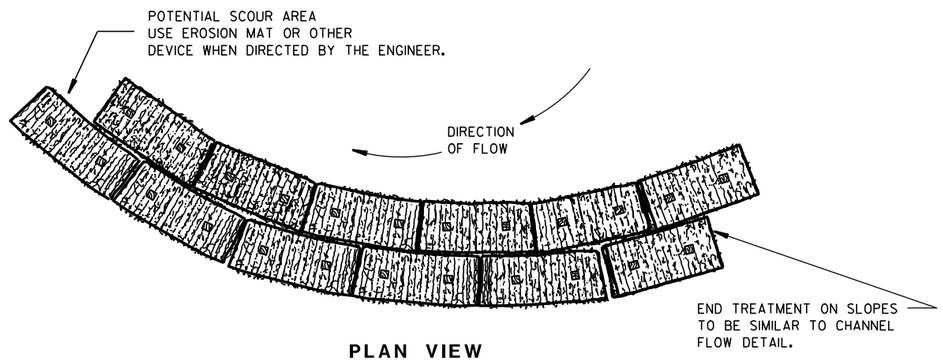
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

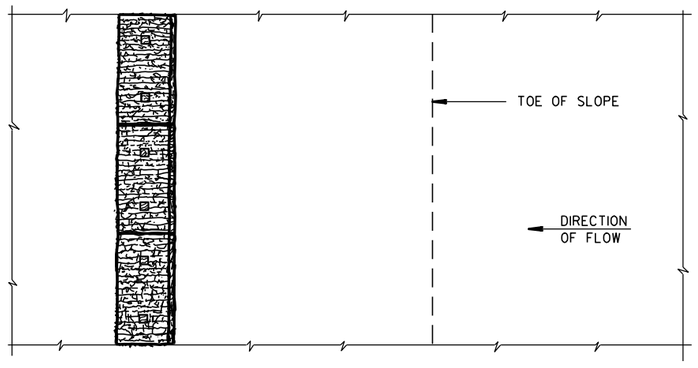
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

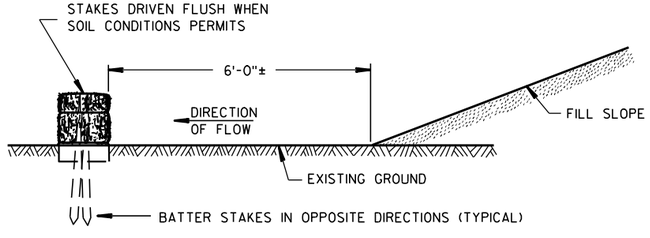


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

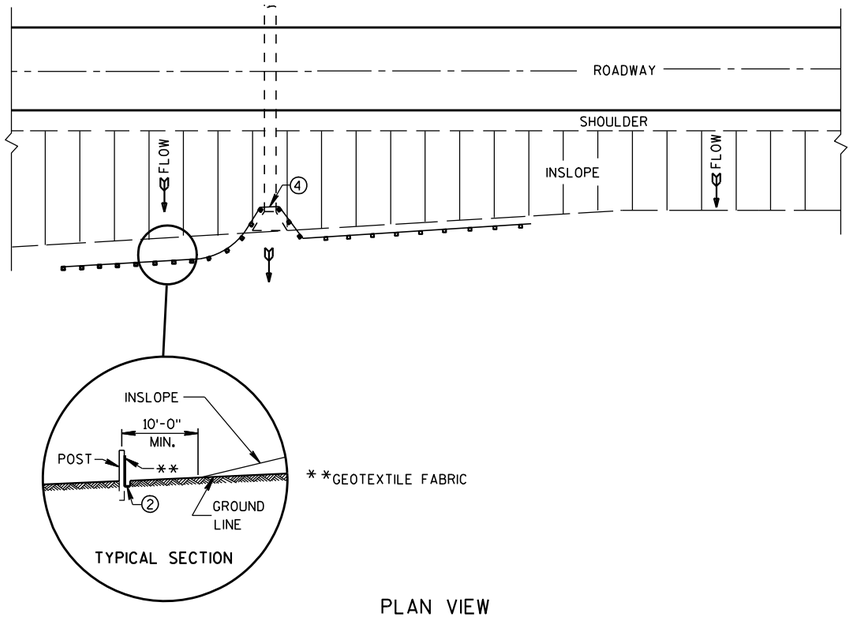
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

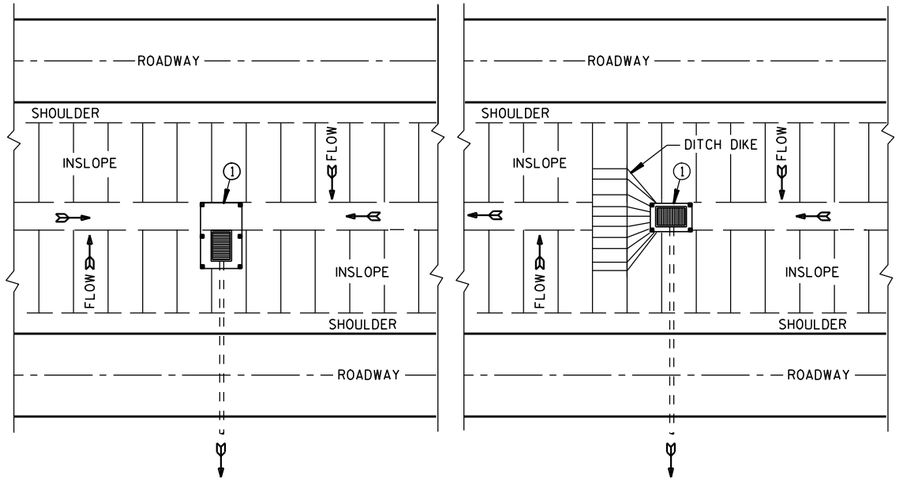
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



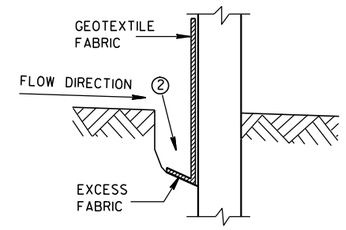
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

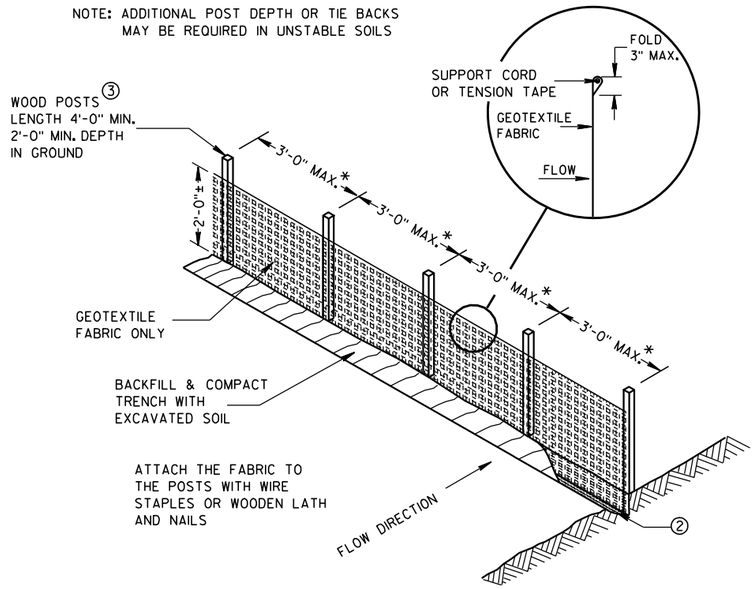
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

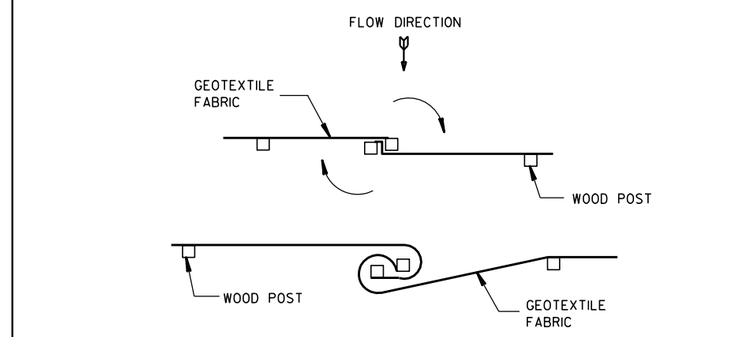


TRENCH DETAIL

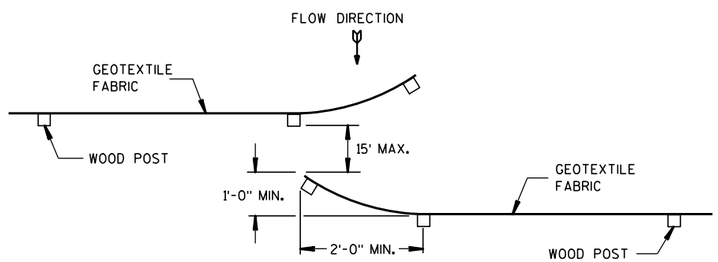


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

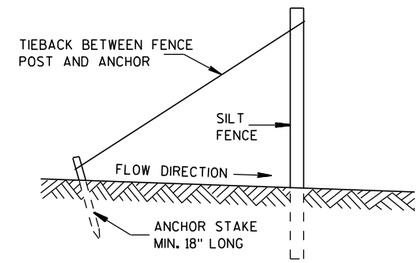


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

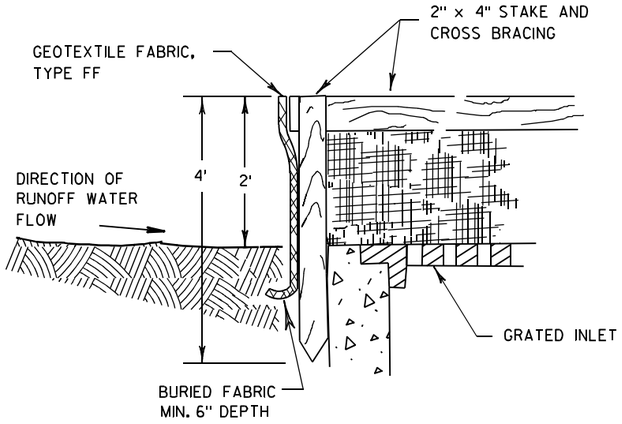
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

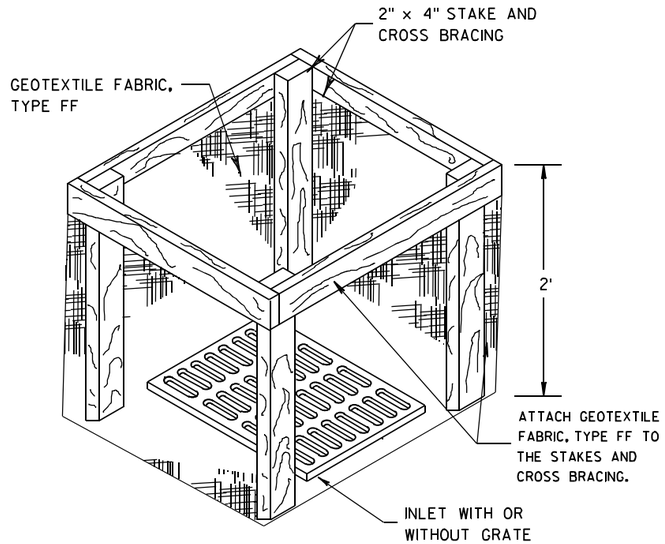
6

S.D.D. 8 E 9-6

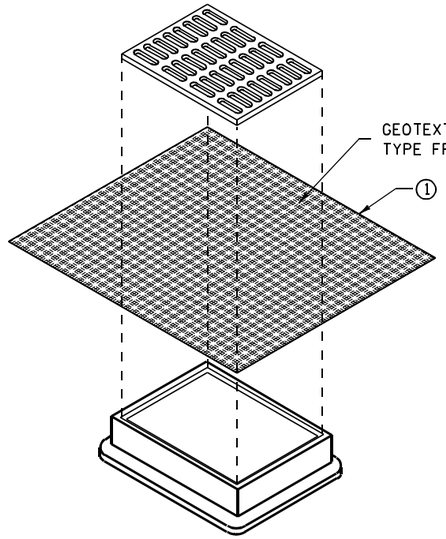
6

S.D.D. 8 E 9-6



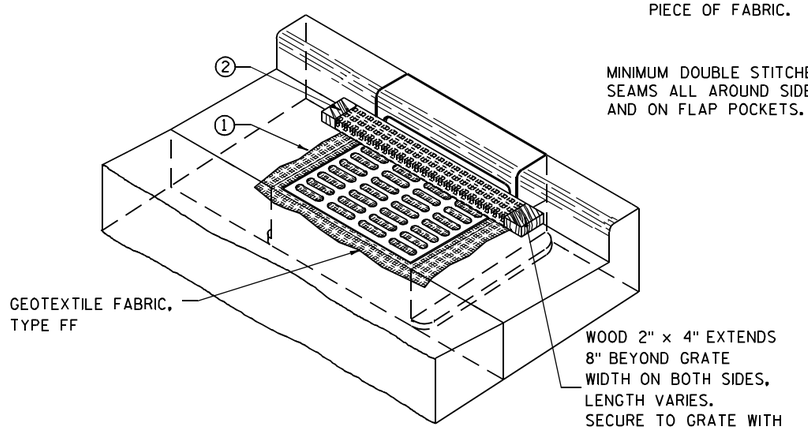


INLET PROTECTION, TYPE A

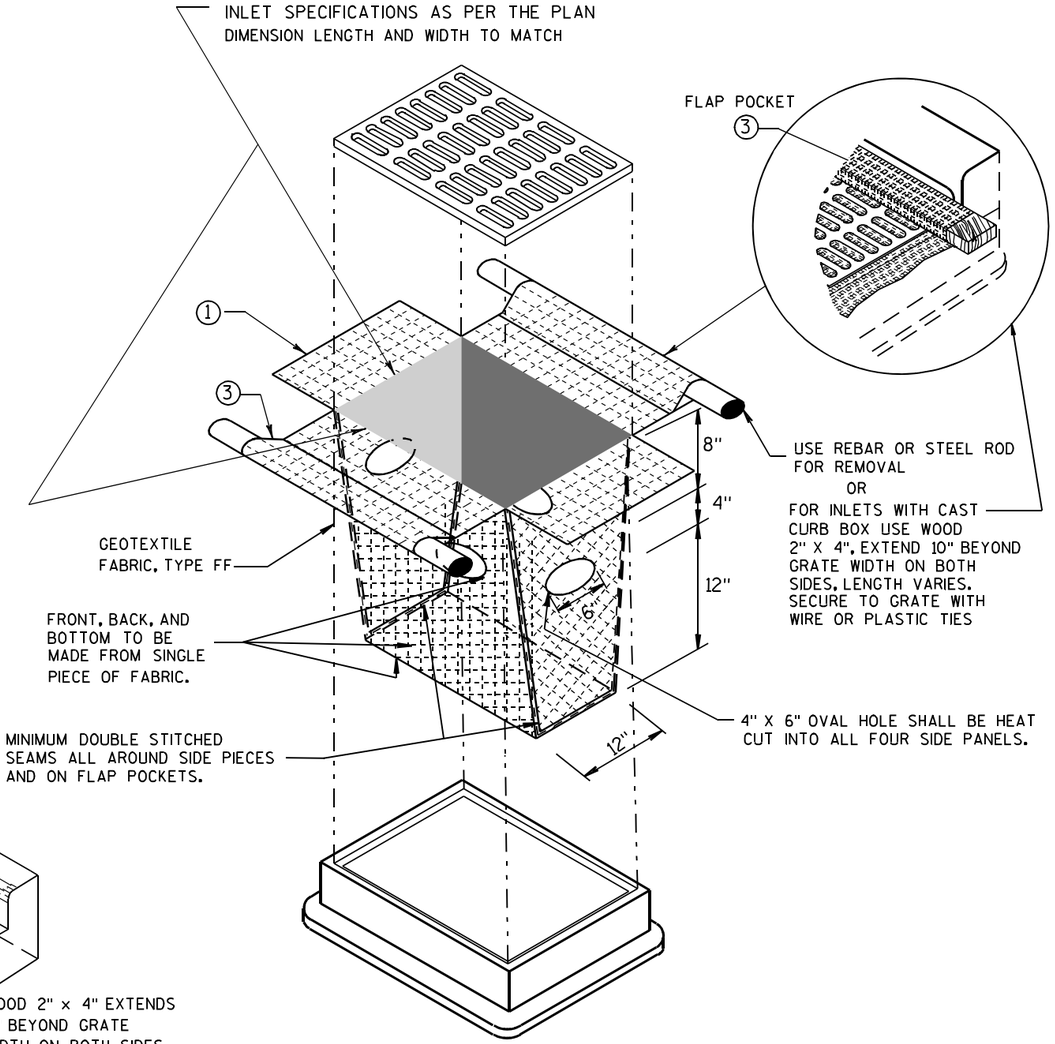


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

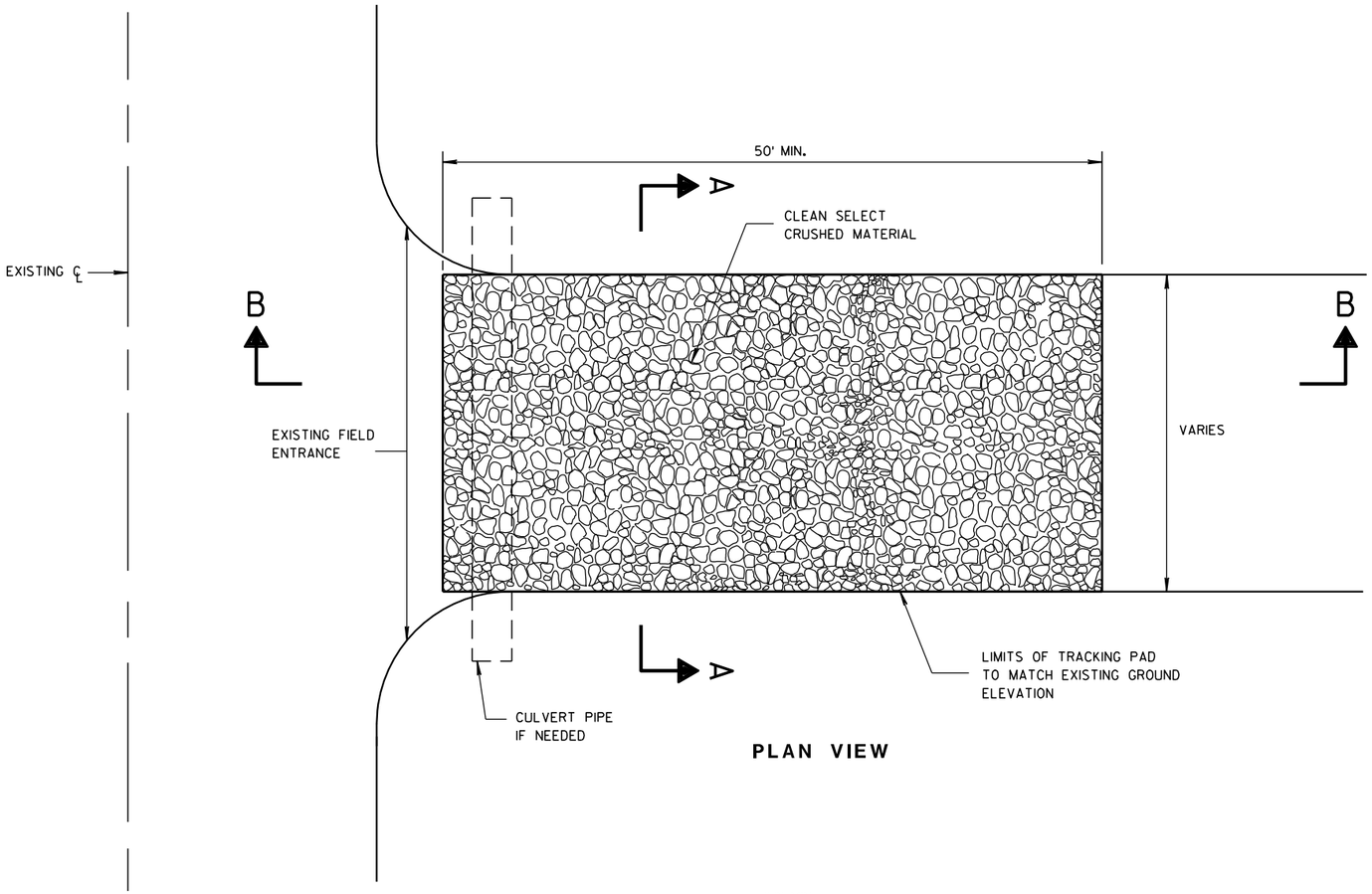
FHWA

6

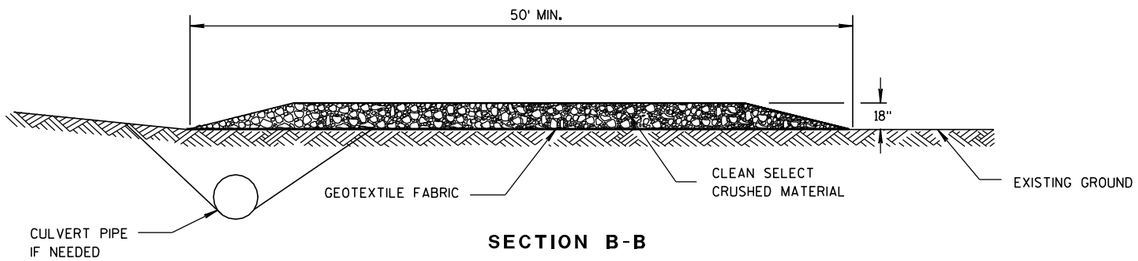
S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2



PLAN VIEW



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

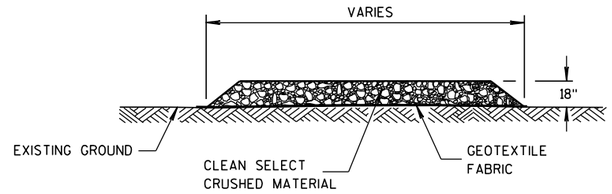
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

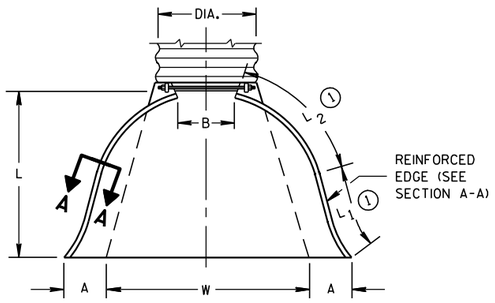
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

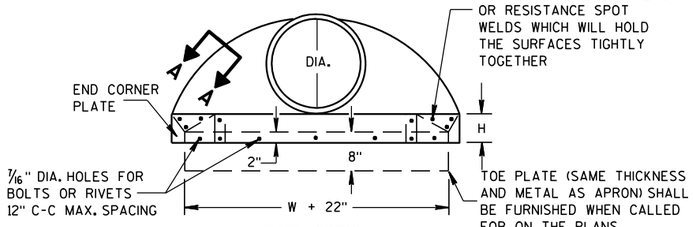
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

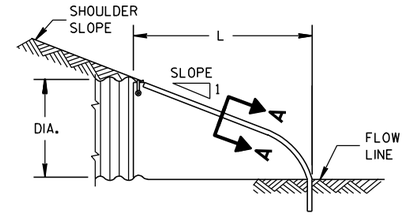
*MINIMUM
**MAXIMUM



PLAN VIEW

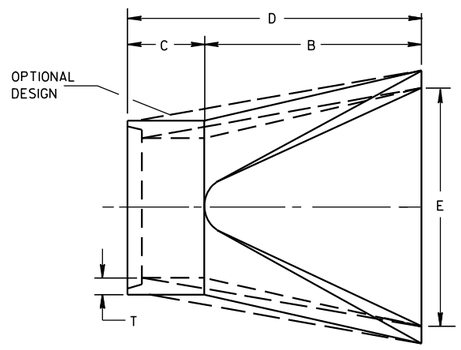


END VIEW

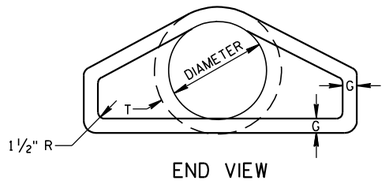


SIDE ELEVATION

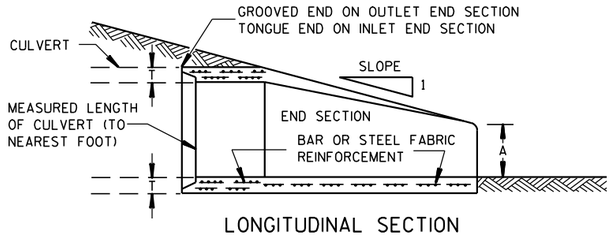
METAL ENDWALLS



PLAN

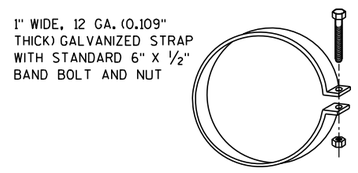


END VIEW



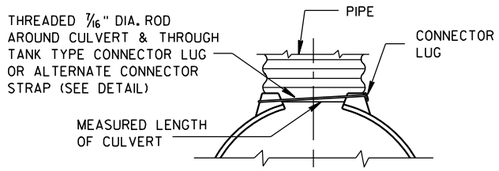
LONGITUDINAL SECTION

CONCRETE ENDWALLS

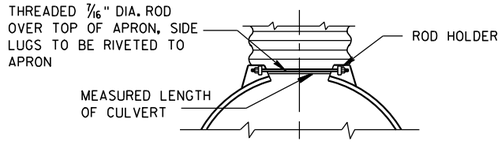


ALTERNATE FOR TYPE 1 CONNECTION

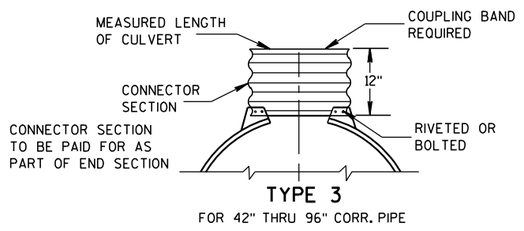
END SECTION CONNECTOR STRAP



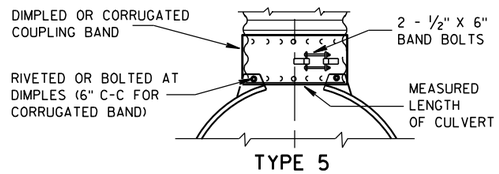
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

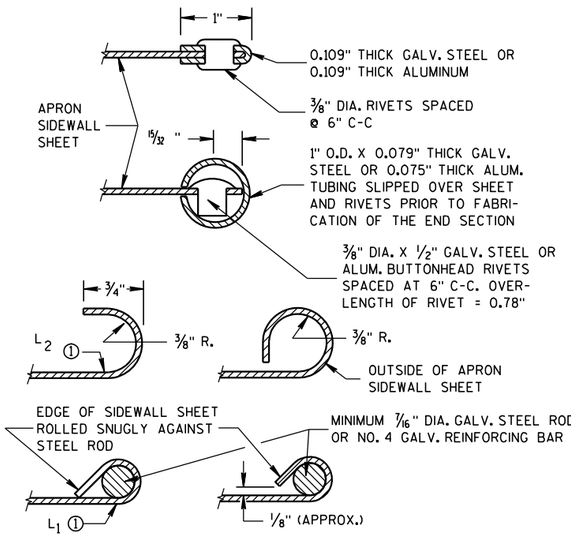
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

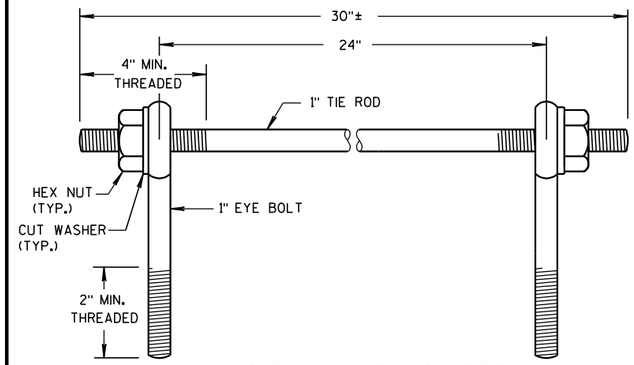
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOP 449 NEER
FHWA

6

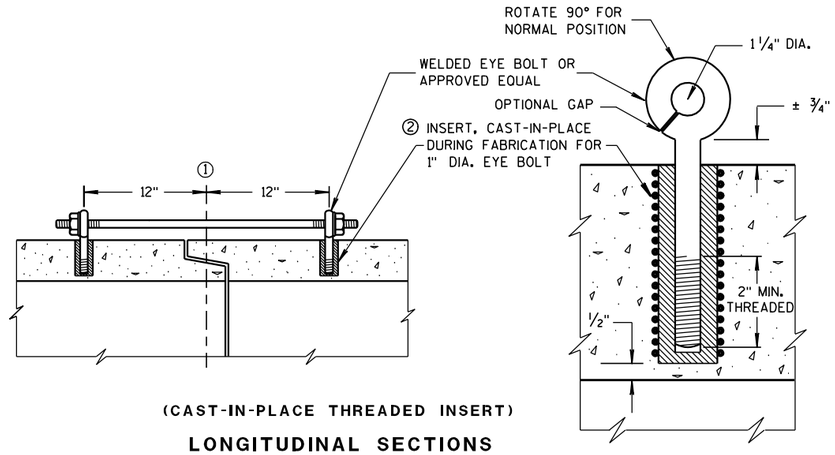
S.D.D. 8 F 1-11

6

S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

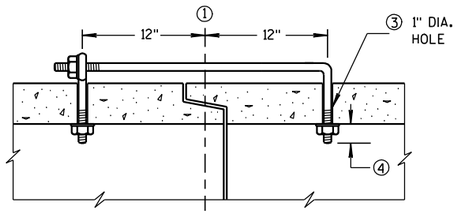
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

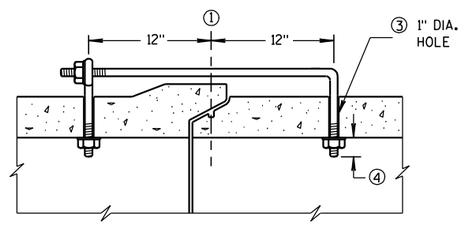
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

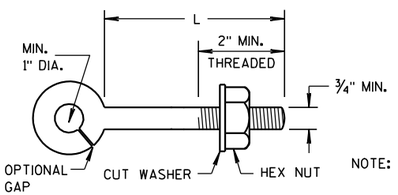


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

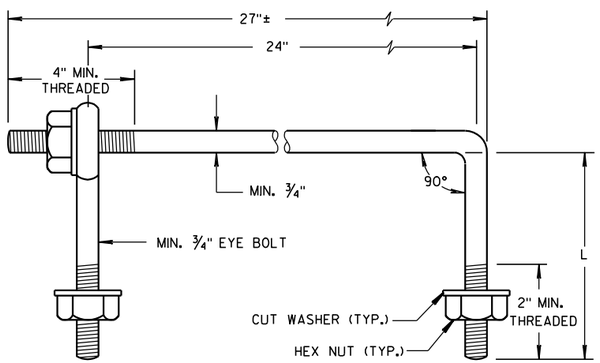
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

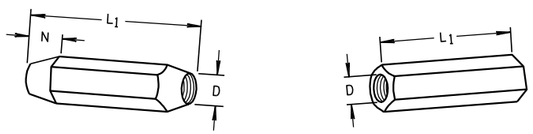
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

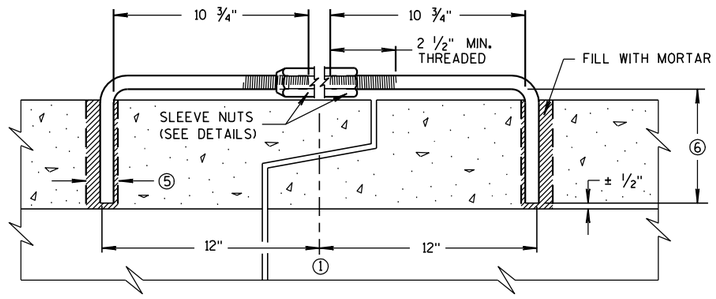
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

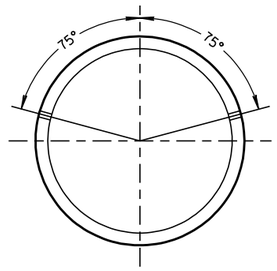
SLEEVE NUTS



LONGITUDINAL SECTION

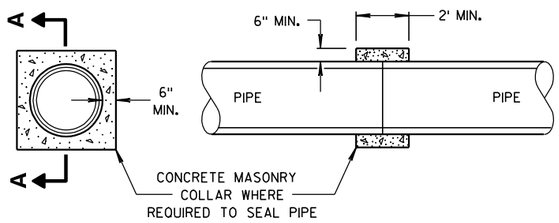
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

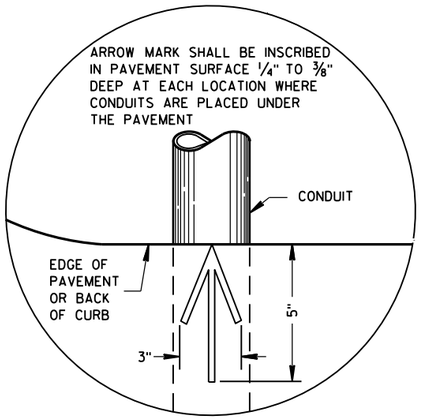
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
450 — FHWA

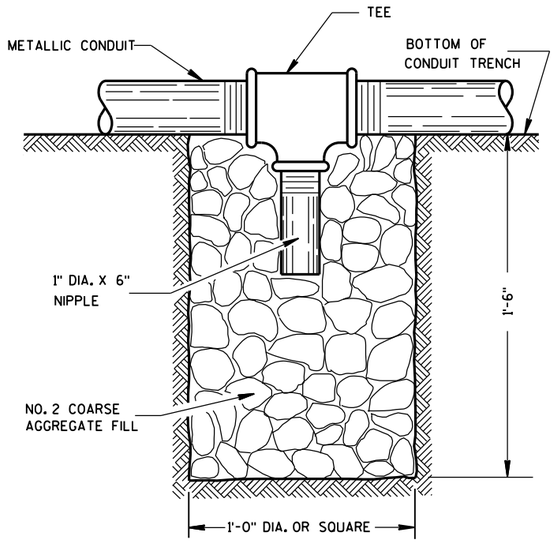
S.D.D. 8 F 4-7

6



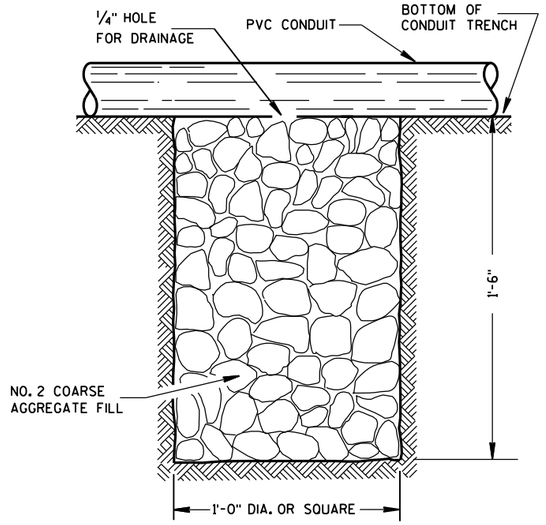
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

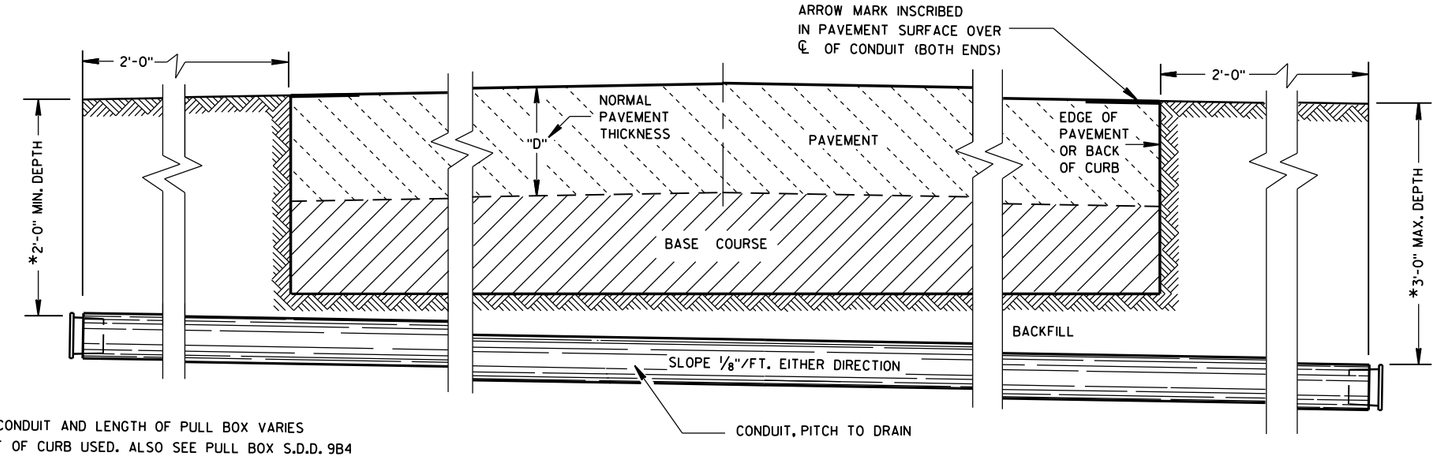
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 B 2-9

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

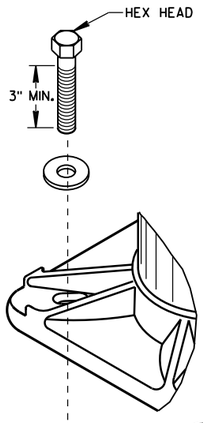
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

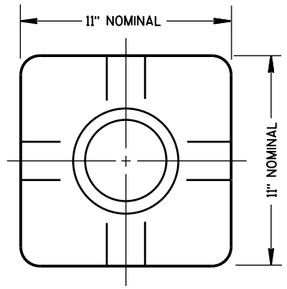
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

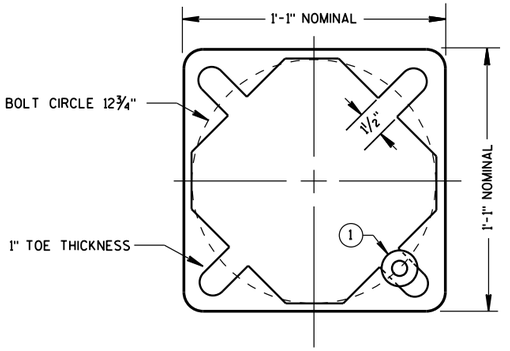
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

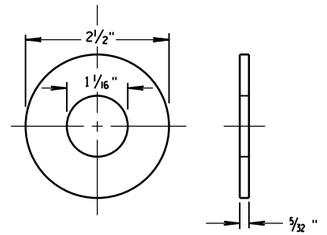




TOP VIEW
(PEDESTAL BASE)

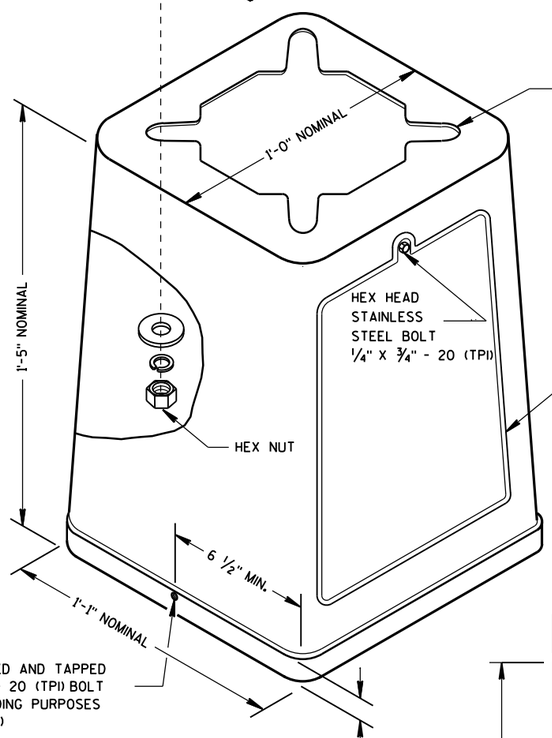


BOTTOM VIEW
(PEDESTAL BASE)

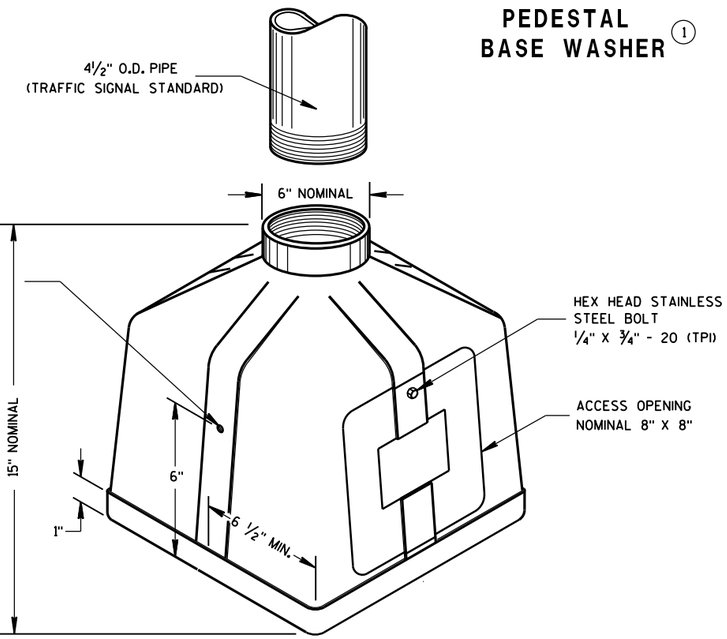


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

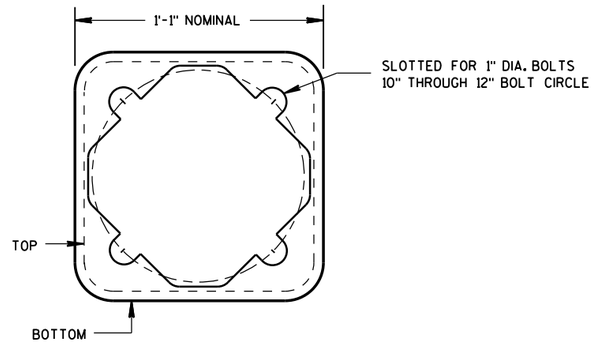


ISOMETRIC VIEW

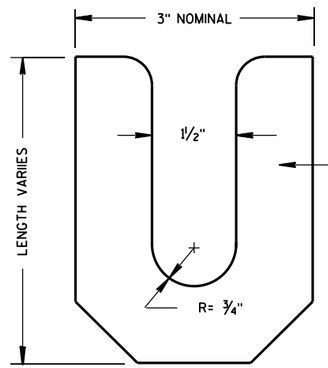


ISOMETRIC VIEW

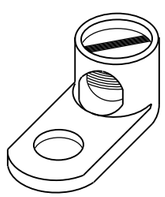
PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)



LEVELING SHIM



TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6
S.D.D. 9 C 3-4

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

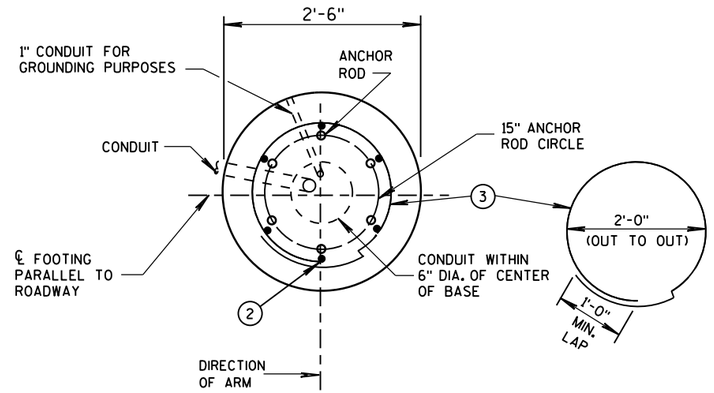
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

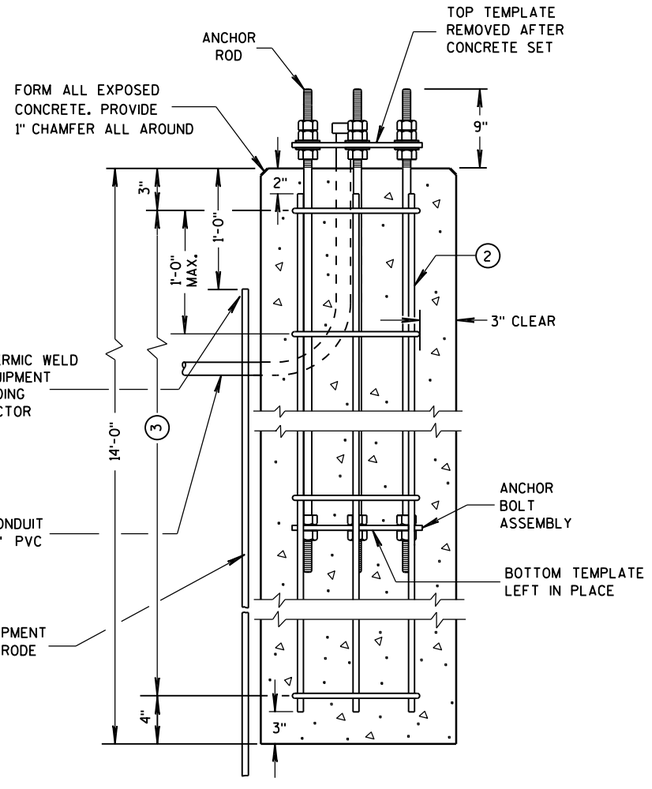
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES, (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.

(3) (15) NO. 4 X 7'-4" BAR STEEL REINFORCEMENT @ 1'-0" MAX. C-C.

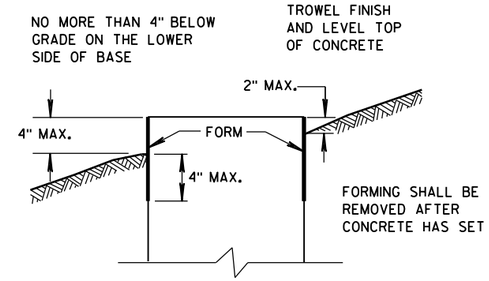
CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATION)	fy=55,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy=36,000 p.s.i.



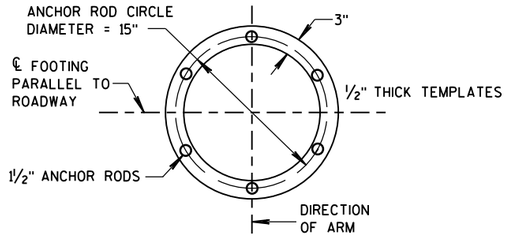


CONCRETE BASE TYPE 10
(FOR TYPE 9 & 10 POLES)

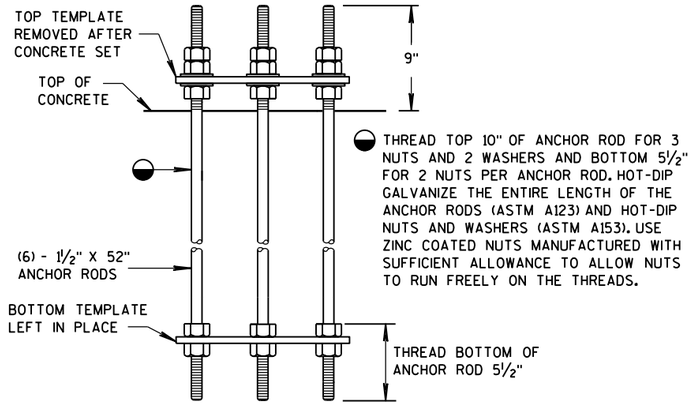
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10
ANCHOR ASSEMBLY

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	69
LBS. OF VERTICAL BAR STEEL	122

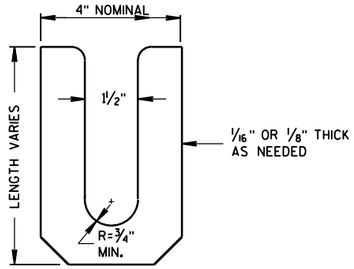
CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

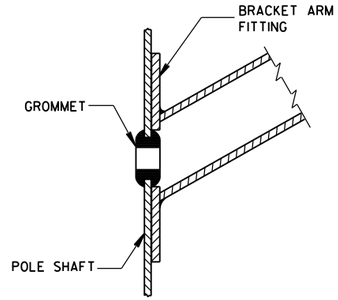
6

S.D.D. 9 C 11-9

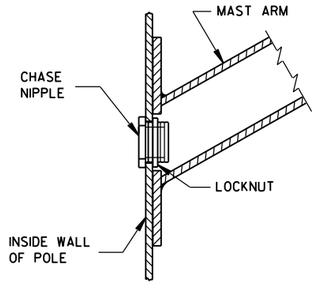


LEVELING SHIM (13)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

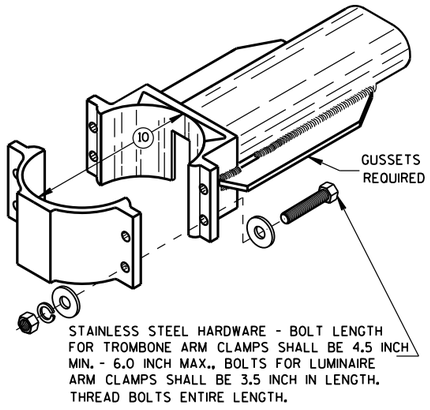
(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

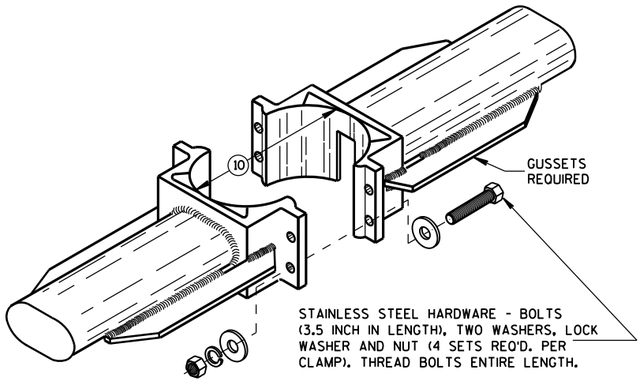
(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

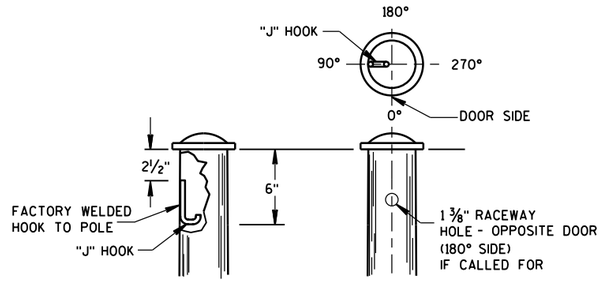
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



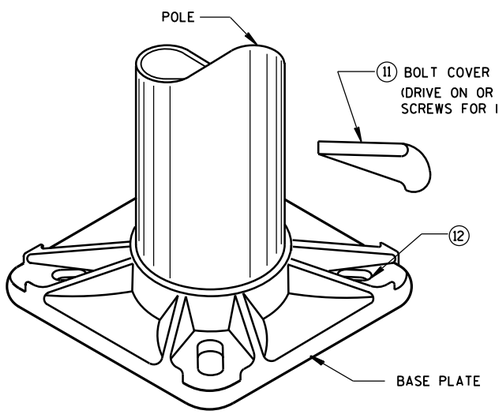
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



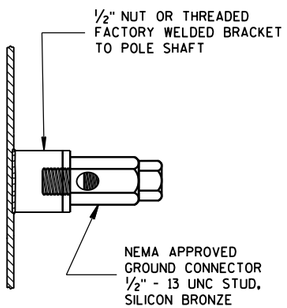
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

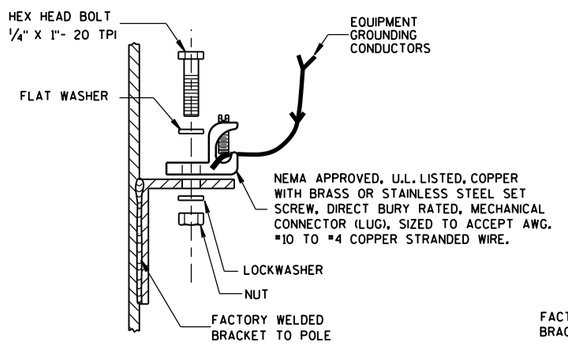


TYPICAL "J" HOOK LOCATION



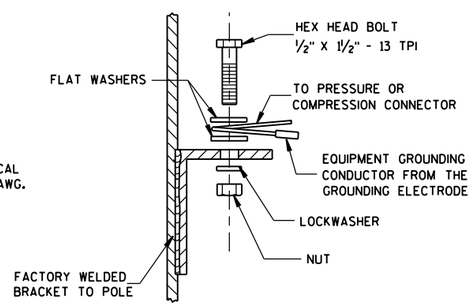
BASE PLATE





TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



HARDWARE DETAILS FOR POLE MOUNTINGS

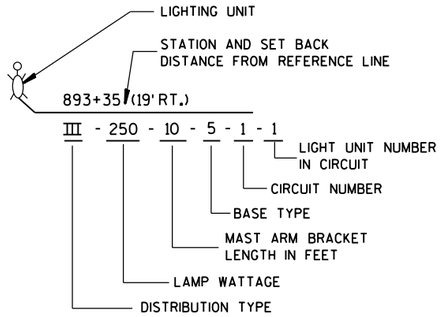
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL

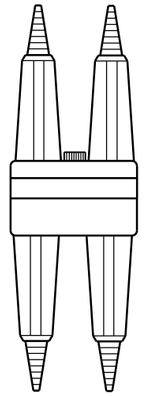
FHWA

6

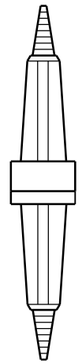
S.D.D. 9 E 1-14g



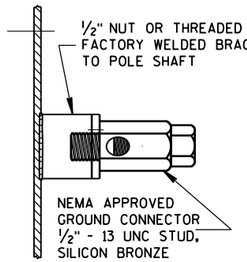
LIGHTING UNIT CODE
(TYPICAL)

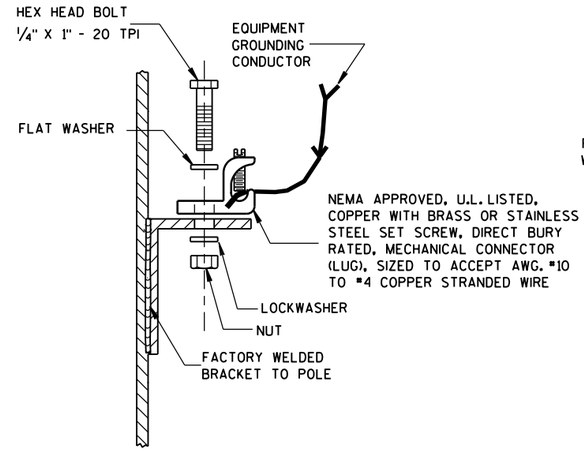


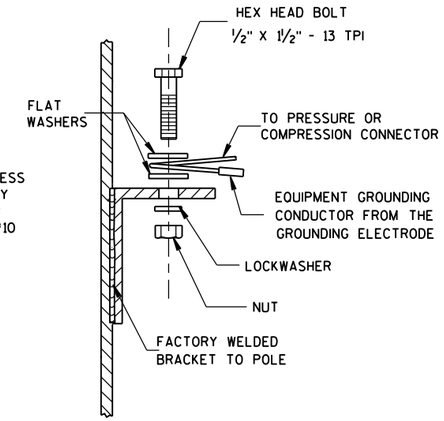
DETAIL "A"
BREAKAWY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



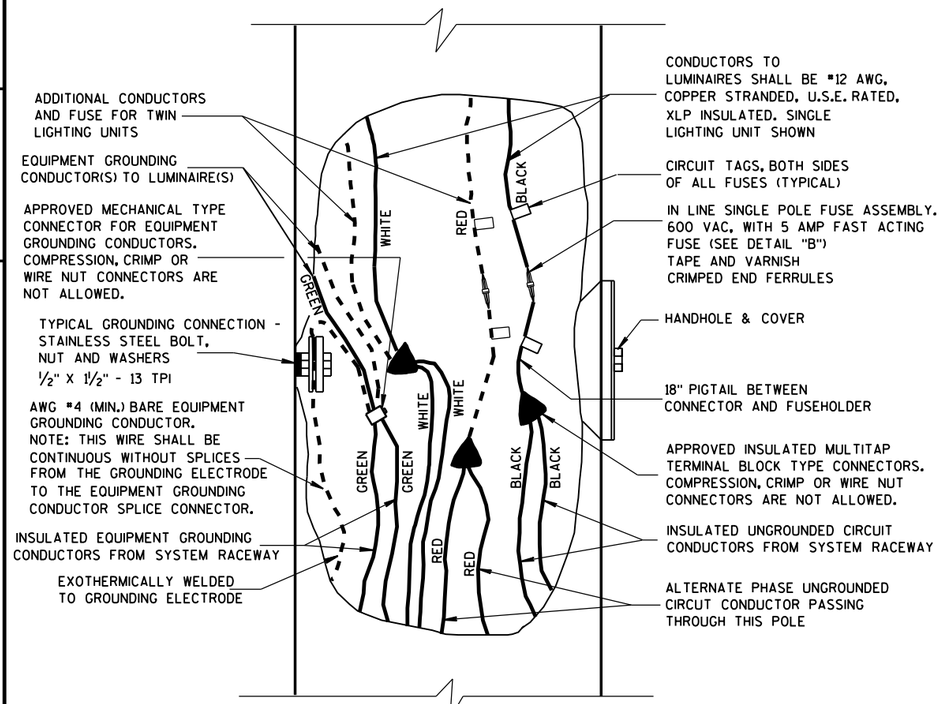
DETAIL "B"
BREAKAWY SINGLE POLE WITH WATERPROOF INSULATING BOOT



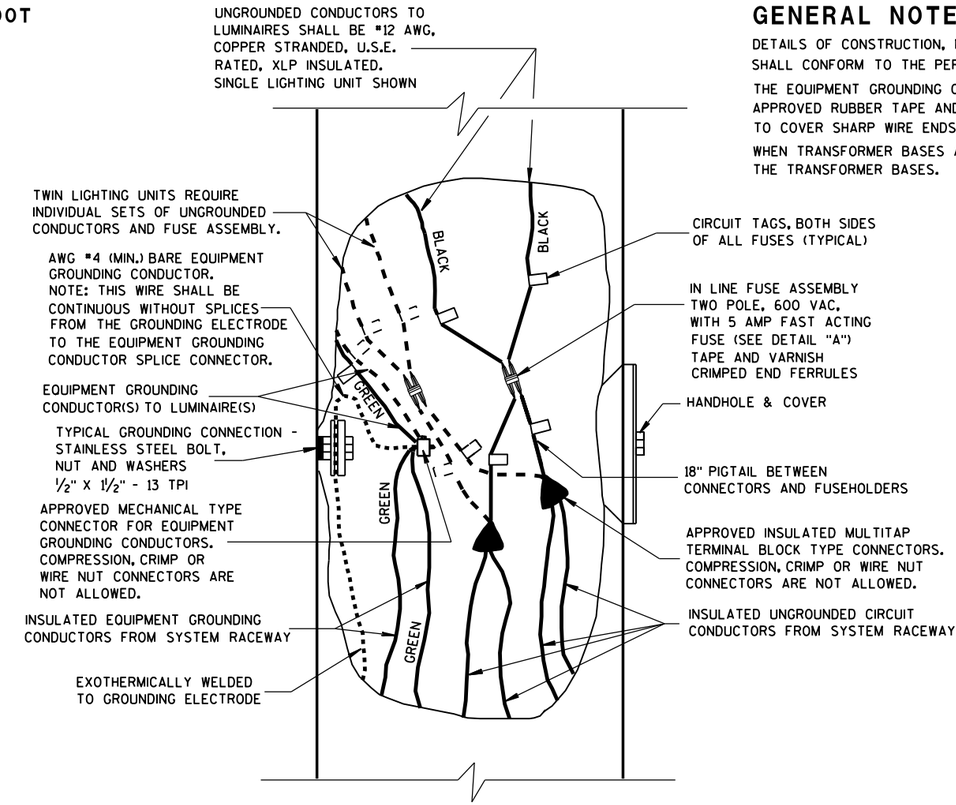




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTOR) WITH GROUNDED CONDUCTOR AND WITH EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

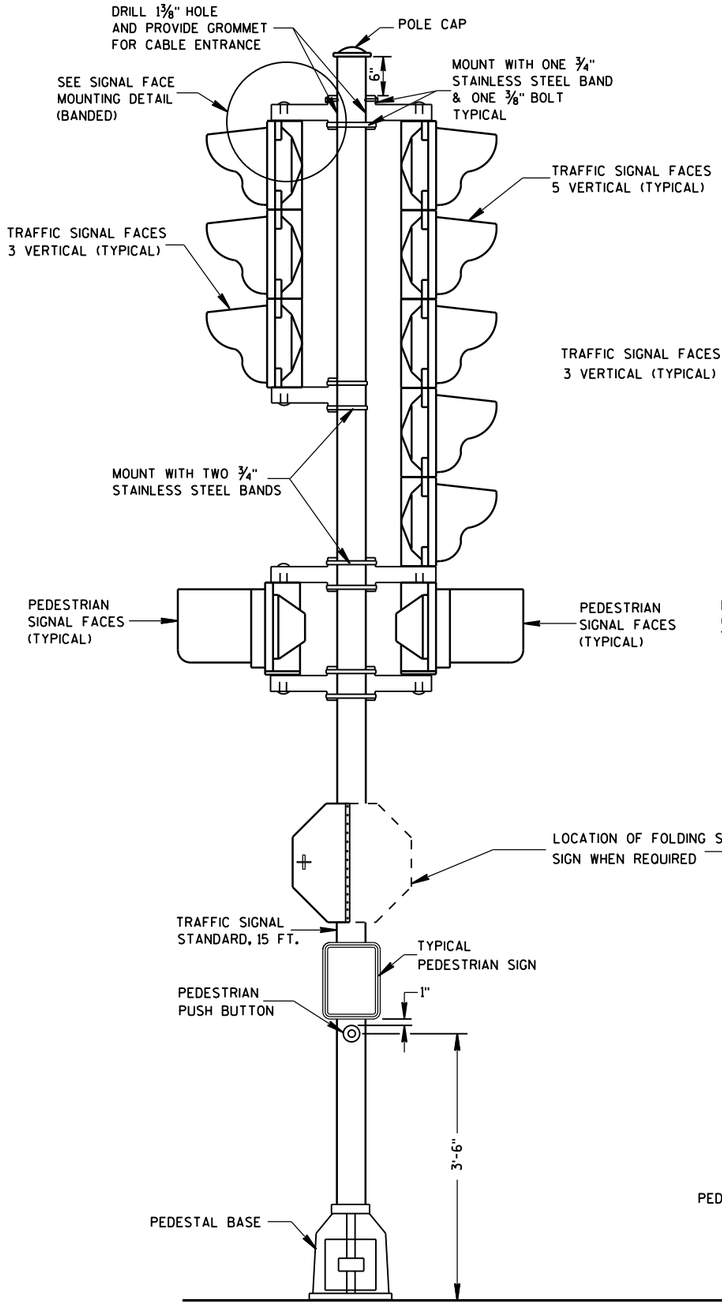
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

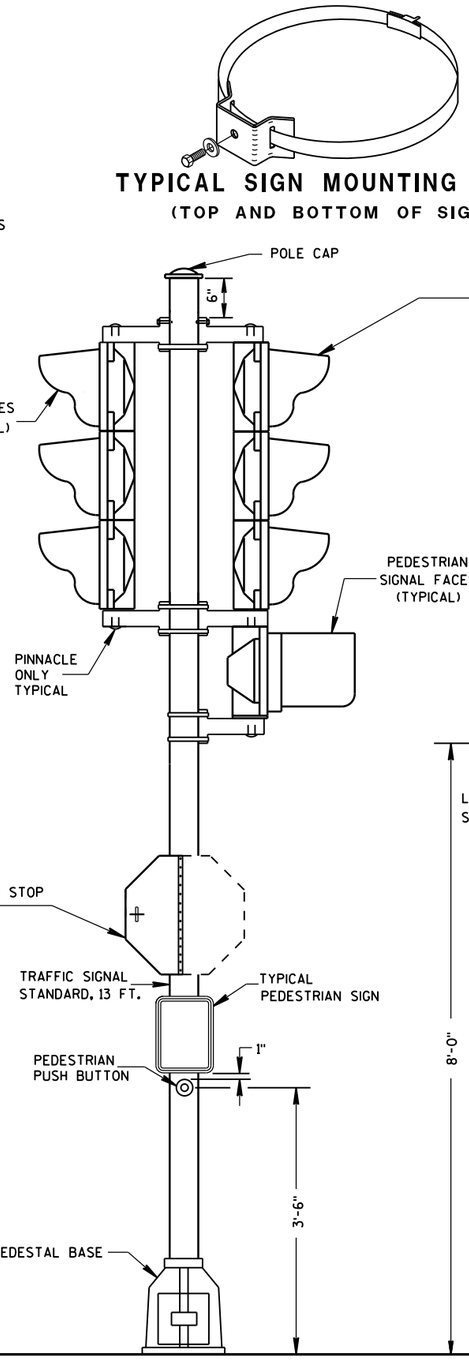
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6
S.D.D. 9 E 3-5

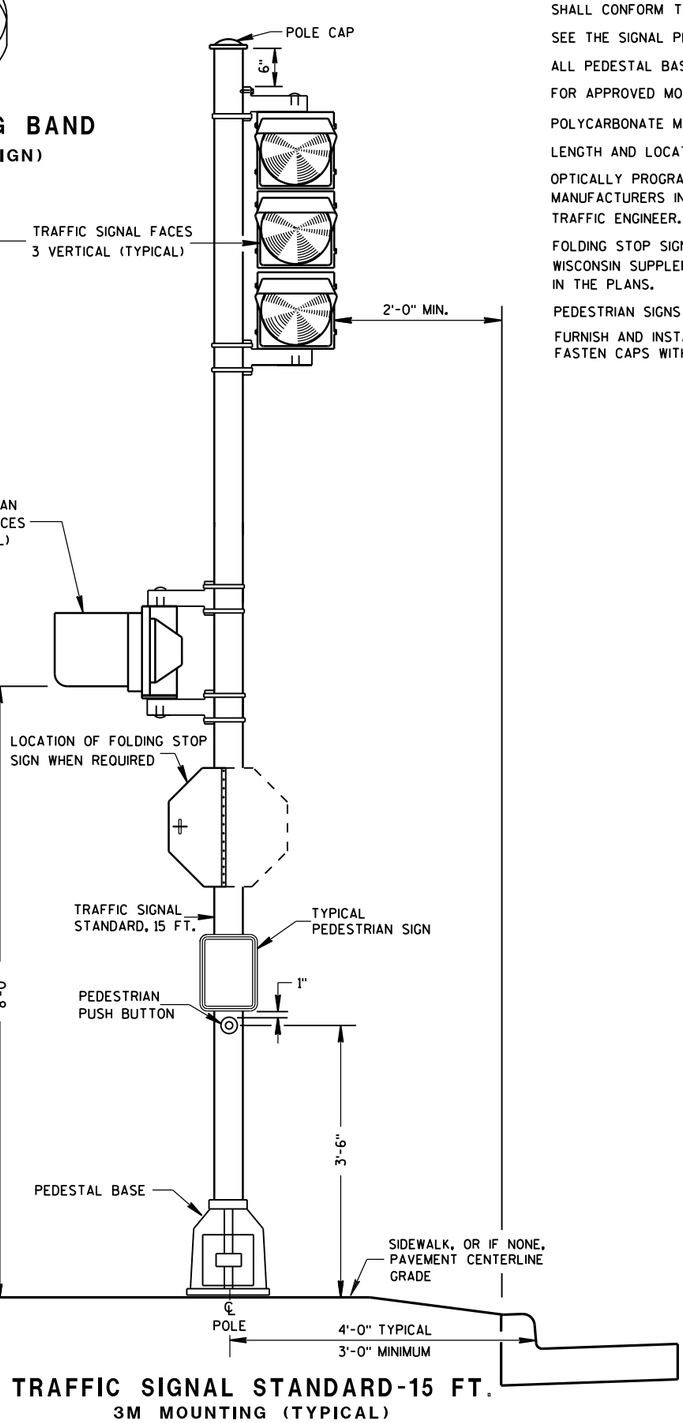


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

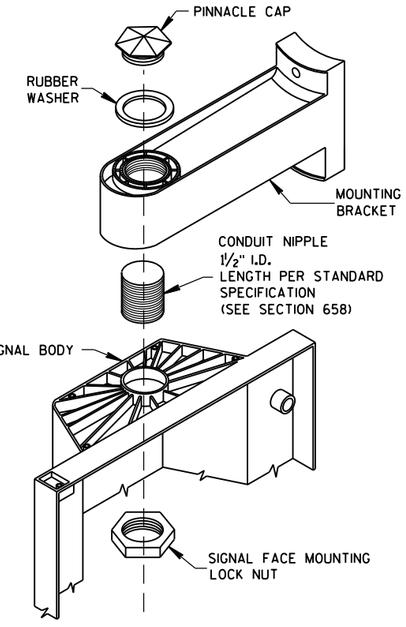
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SIGNAL FACE MOUNTING DETAIL
(BANDED)

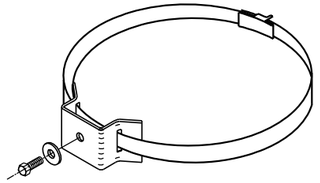
TRAFFIC SIGNAL STANDARD
POLY BRACKET MOUNTINGS
(TYPICAL) 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

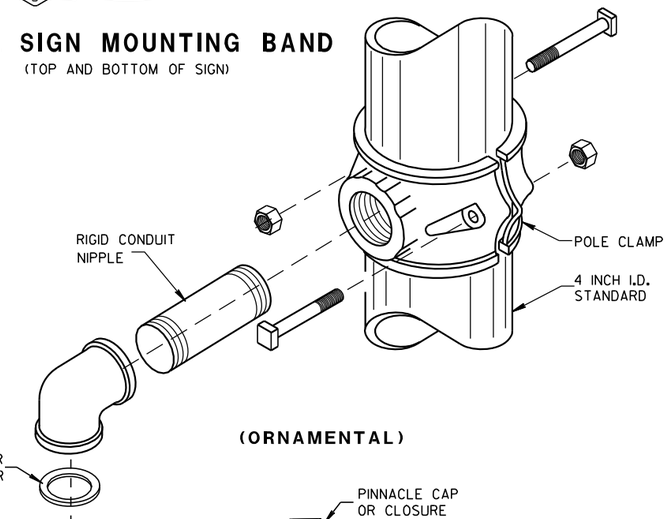
APPROVED
2/28/2013 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

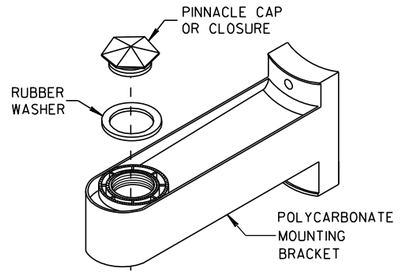
S.D.D. 9 E 6-5



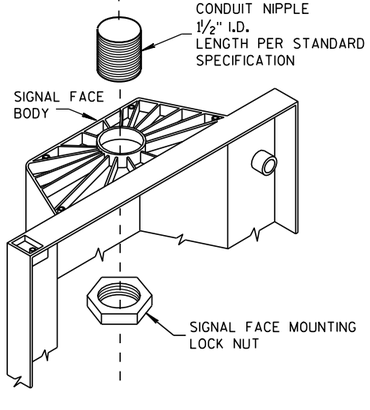
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



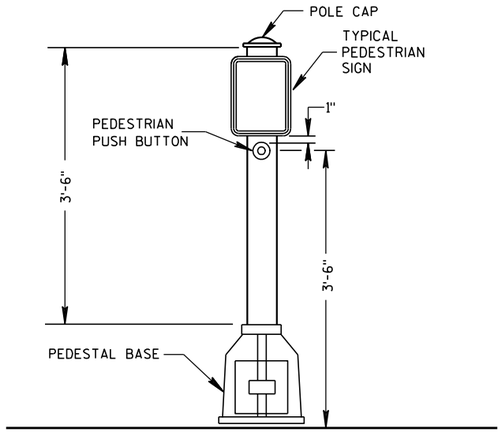
(ORNAMENTAL)



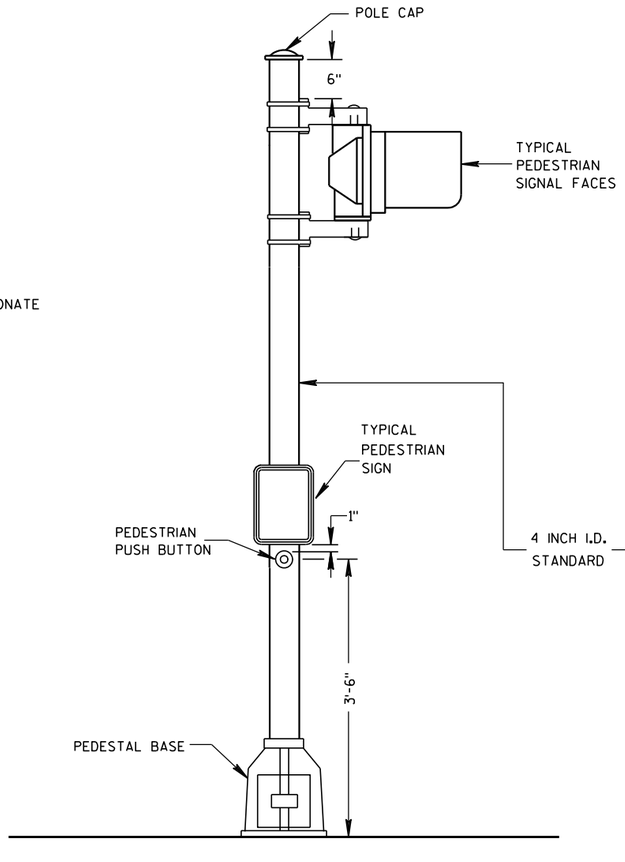
(BANDED)



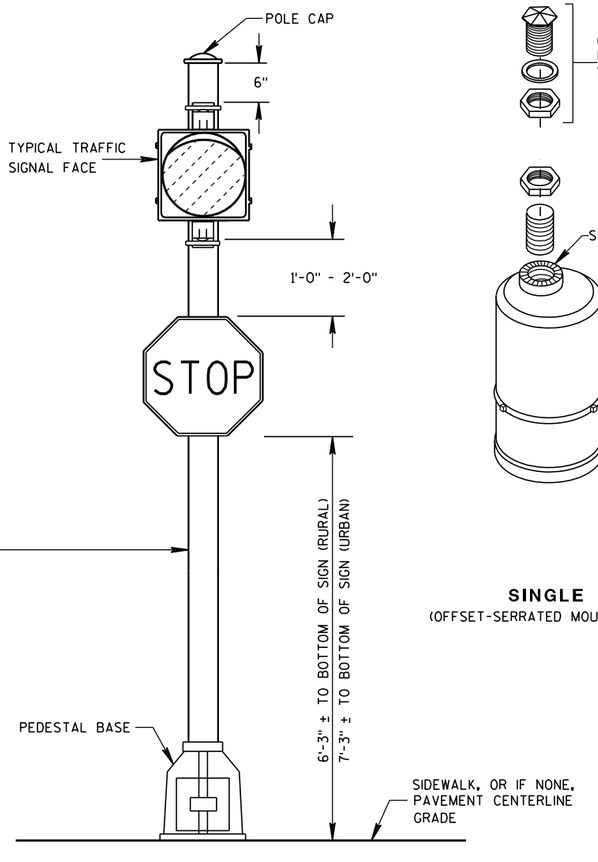
SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING



PEDESTRIAN FACE STANDARD-10 FT.
(WALK-DON'T WALK)



STANDARD FLASHER.
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

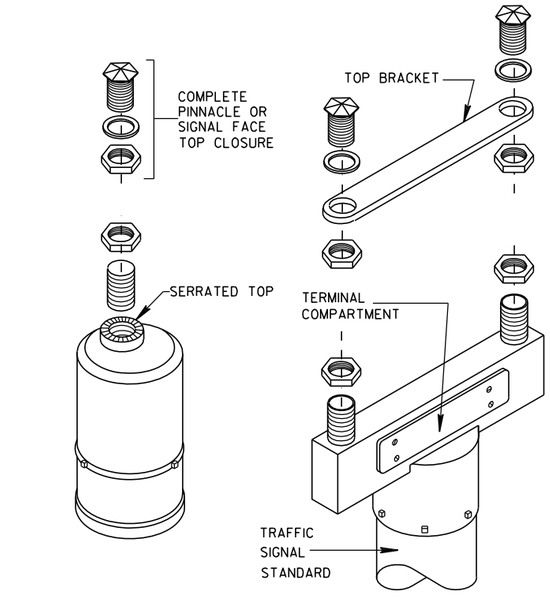
POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE DISTRICT TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SINGLE
(OFFSET-SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/11/10 DATE
/S/ John Corbin STATE ELECTRICAL ENGI
457 HWYS
FHWA

6

S.D.D. 9 E 7-5

6

S.D.D. 9 E 7-5

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15-FOOT TO 30-FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35-FOOT TO 55-FOOT.

MONOTUBE POLE AND ARM SHALL BE GALVANIZED STEEL.

RING-STIFFENED BUILT-UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE (1) PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3 % ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO 2013 6TH EDITION AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR TRAFFIC AND LIGHTING STRUCTURES AND AS FOLLOWS:

- CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.
- CATEGORY II FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 12 AND TYPE 13 STRUCTURES.
- 90 MPH (3-SECOND GUST) WIND SPEED AND A 50 YEAR DESIGN LIFE.

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" S.S. BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR AS DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEADS AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HANDHOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING, (SEE SPECIFICATIONS SEC. 658).

(3) SECURELY MOUNT BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE END OF THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY-WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HANDHOLE, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

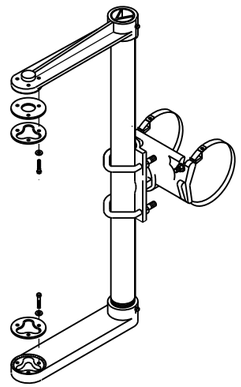
(6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

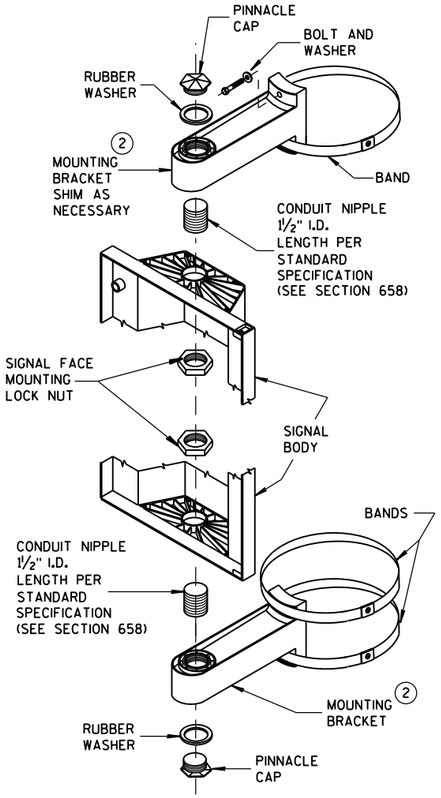
MOUNTING HEIGHT SHALL BE 6'-0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

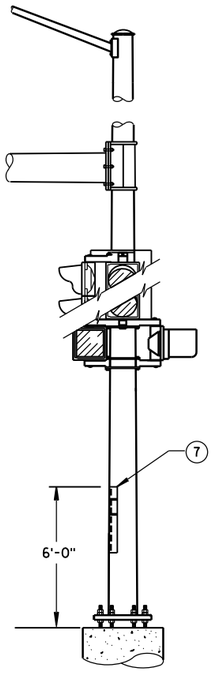


SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

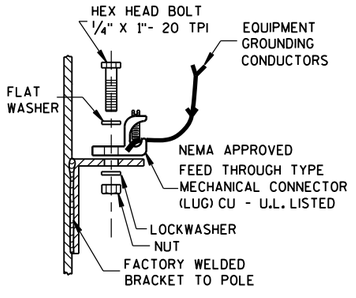
(MOUNT PER MANUFACTURER'S RECOMMENDATION)



SIGNAL FACE VERTICAL MOUNTING DETAIL

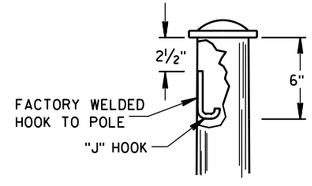


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



"J" HOOK WIRE SUPPORT (6)

GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

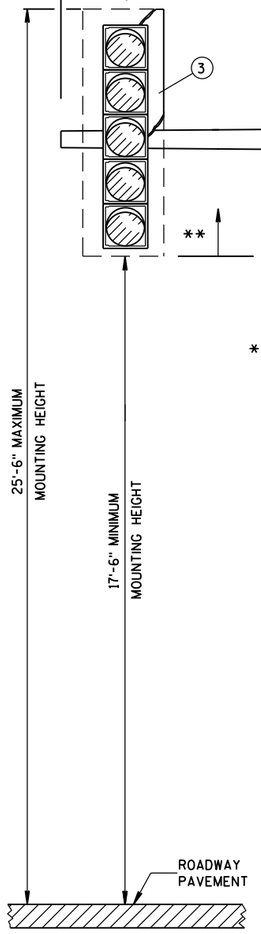
June, 2015 — DATE

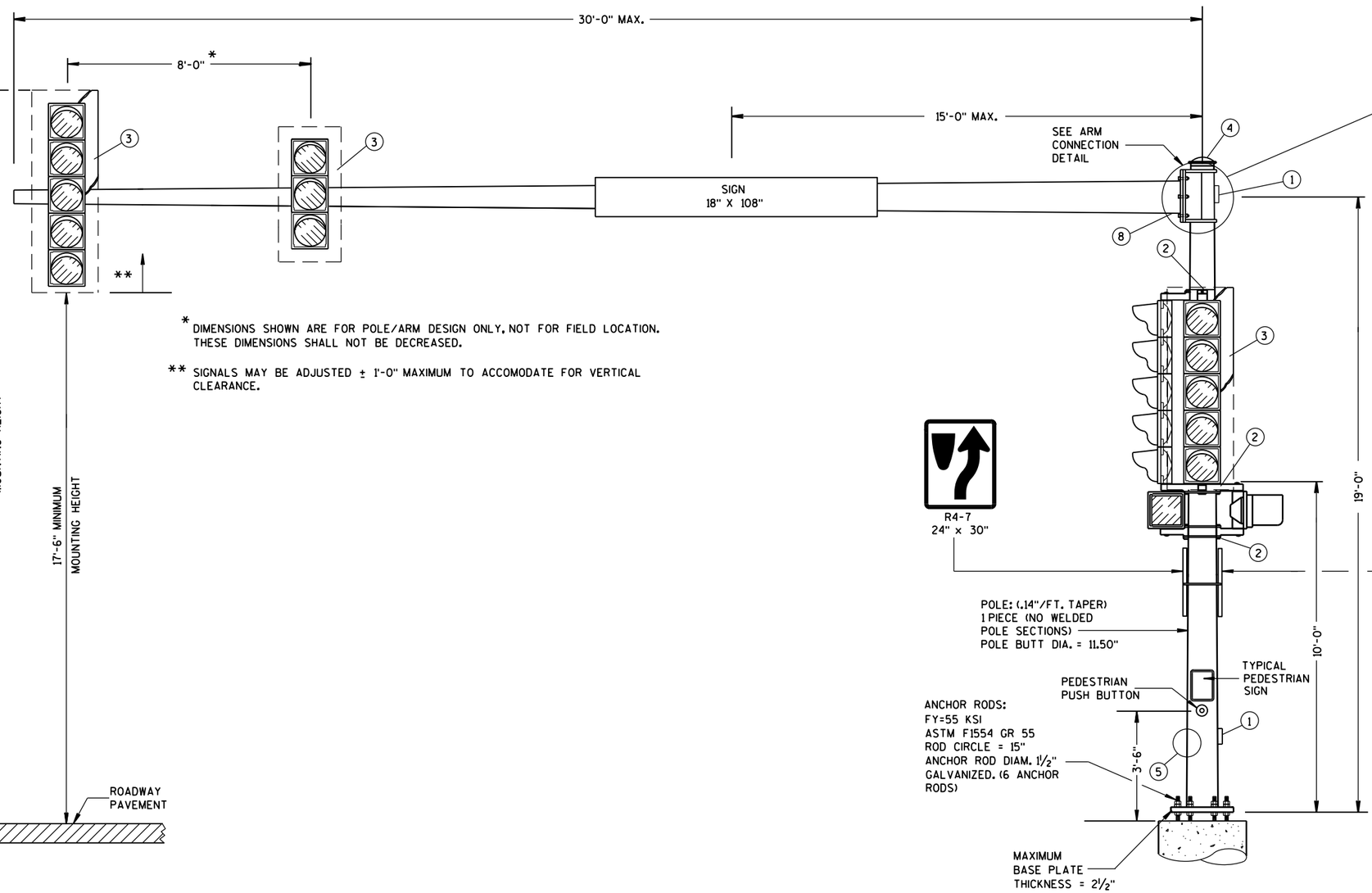
/S/ Ahmet Demirbilek — STATE ELECTRICAL 458

FHWA

6

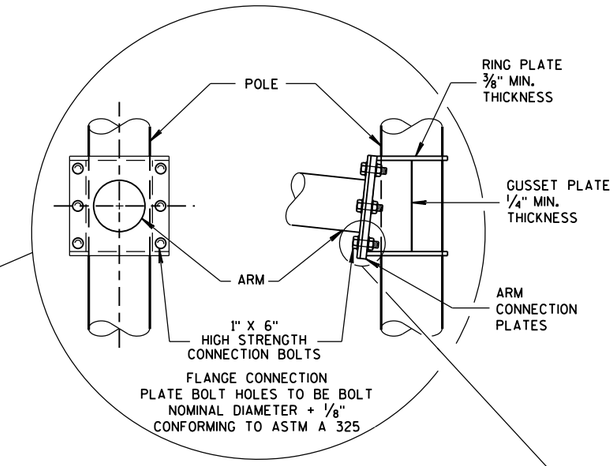
S.D.D. 9 E 8-7e



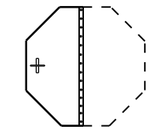


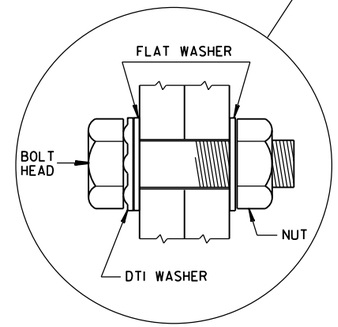
* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

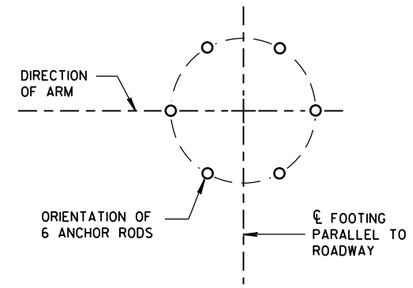


6 BOLT ARM CONNECTION DETAIL





RECOMMENDED BOLT ASSEMBLY DETAIL



ANCHOR ROD LOCATION

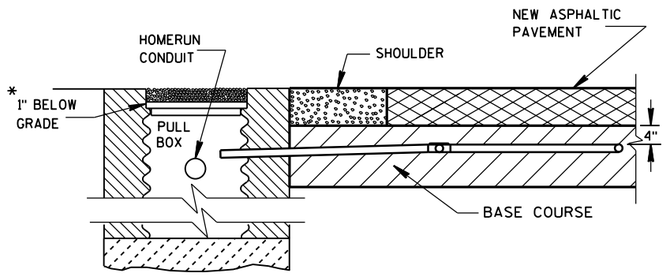
(MAXIMUM LOAD)

TYPE 9 POLE 15'- 30' MONOTUBE ARM

TYPE 9 POLE 15' - 30' MONOTUBE ARM	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May, 2016 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL
FHWA	

6

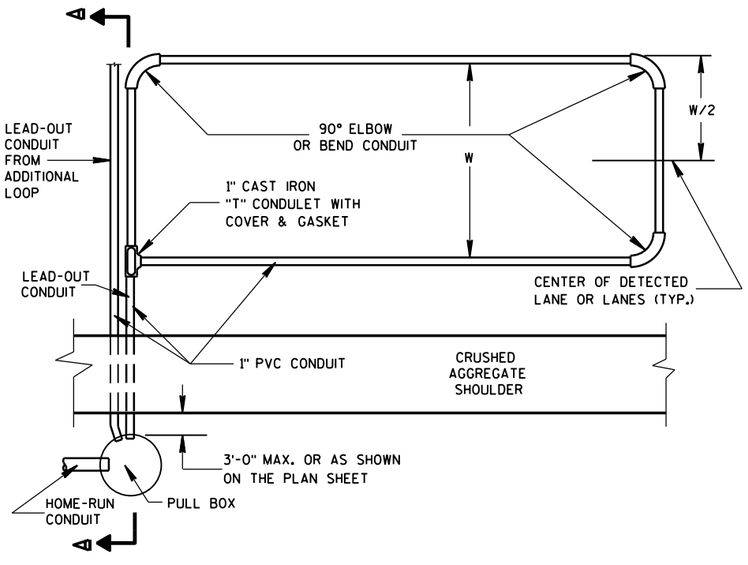
S.D.D. 9 E 8-8a



SECTION A-A
NO CURB & GUTTER

DETECTOR LOOP INSTALLATION DETAIL

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.



TYPICAL PLAN OF LOOP DETECTOR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD-OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

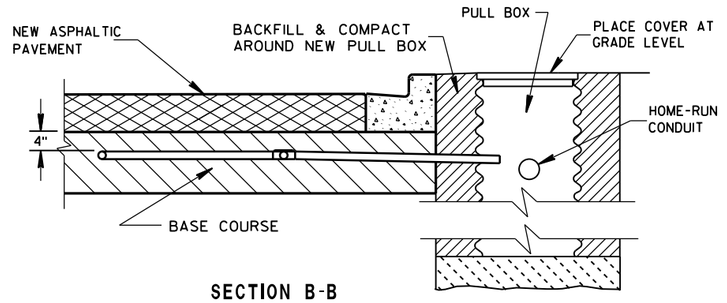
SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP DUCT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT AND CONDULET SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE THE ASPHALTIC PAVEMENT IS PLACED.

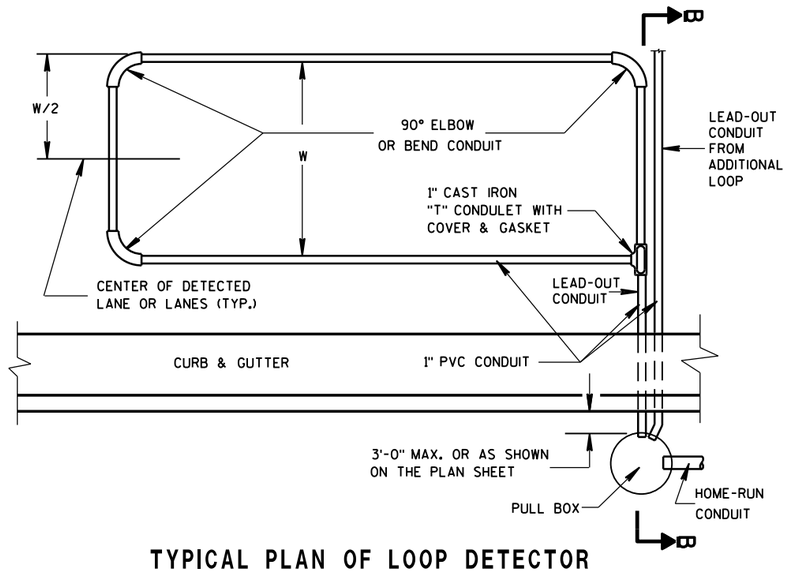
WHEN MULTIPLE LAYERS OF ASPHALTIC PAVEMENT ARE TO BE PLACED, LOOPS MAY BE INSTALLED BY SAWING A TWO INCH WIDE SLOT IN THE FIRST LAYER, DIG OUT THE ASPHALTIC MATERIAL AND BASE COURSE, PLACE THE LOOP, FILL THE SLOT WITH BASE COURSE MATERIAL AND NEW ASPHALTIC MATERIAL AND TAMP THE ASPHALTIC MATERIAL IN PLACE.

SHOULD TRAFFIC BE ALLOWED TO USE THE AREA OF ROADWAY WITH THE NEWLY INSTALLED LOOP BEFORE THE PLACEMENT OF THE NEXT LAYER OF ASPHALTIC PAVEMENT, THE SLOT/PAVEMENT OPENING SHALL BE SEALED WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".



SECTION B-B
CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAIL



TYPICAL PLAN OF LOOP DETECTOR

LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW ASPHALTIC PAVEMENT)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 F 8-4

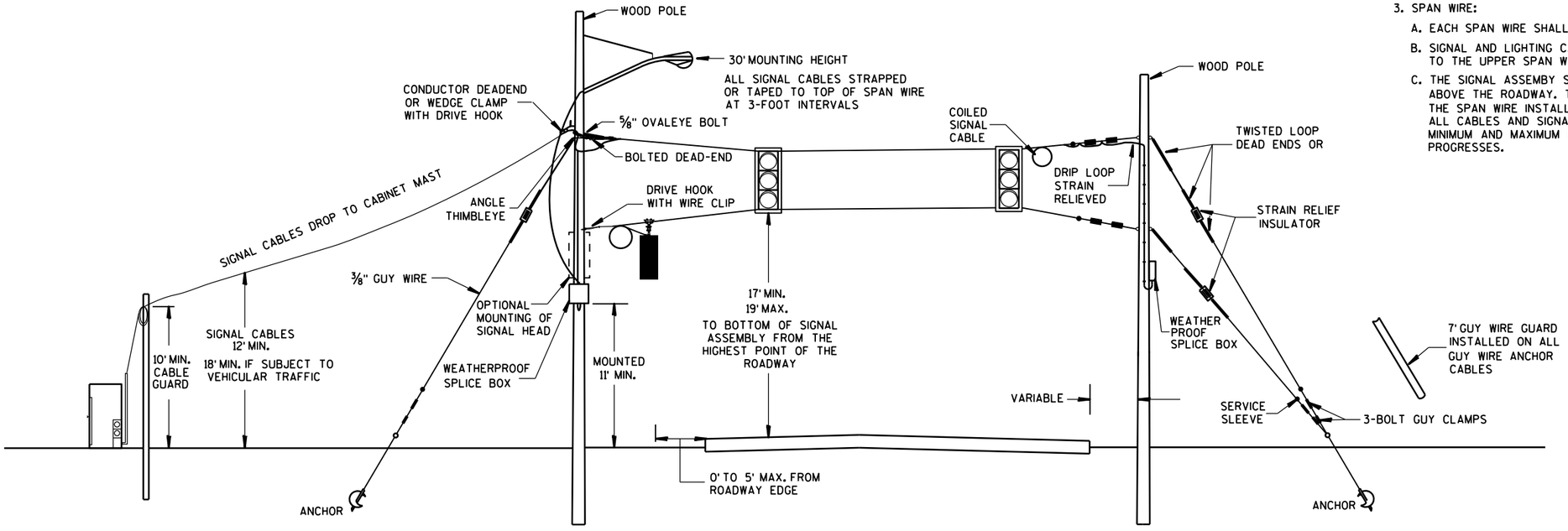
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.

3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS

MINIMUM POLE LENGTHS	POLE BURIEL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

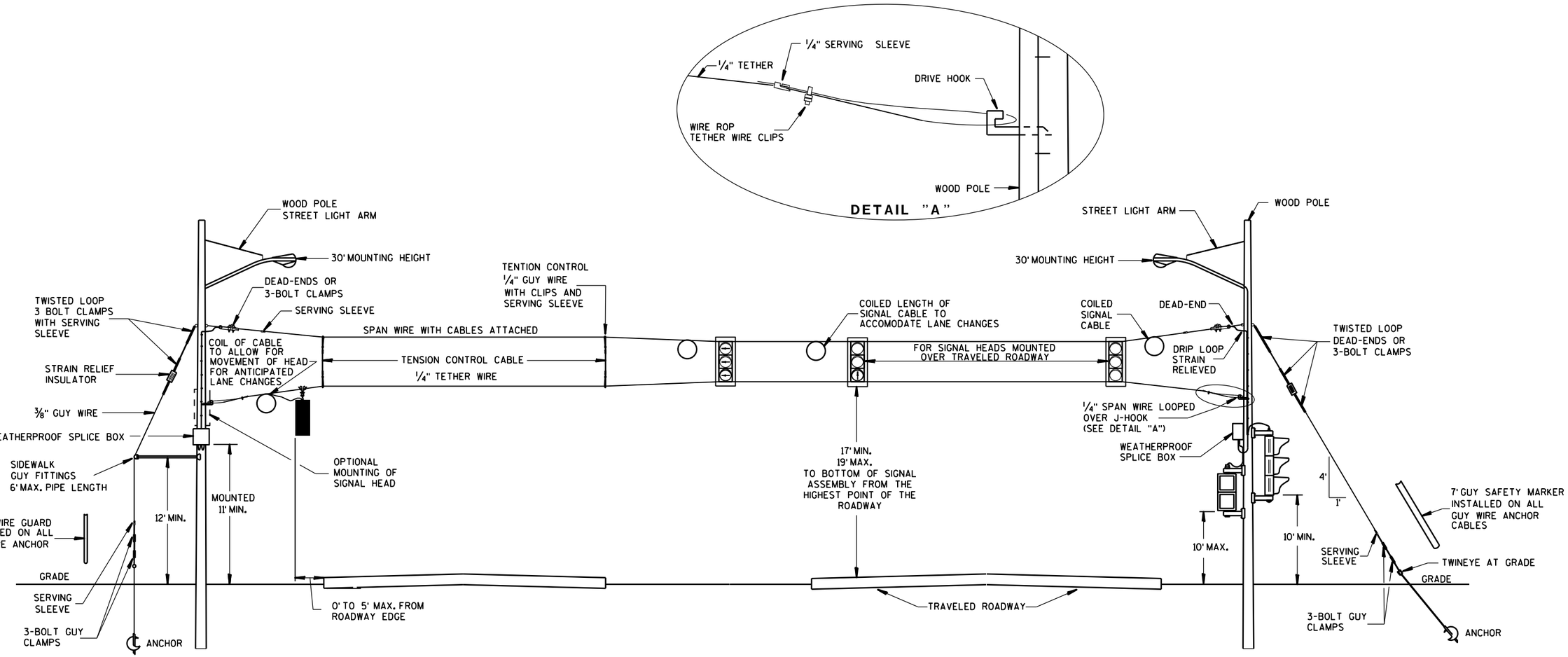
APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 G 1-4a

6

S.D.D. 9 G 1-4a



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

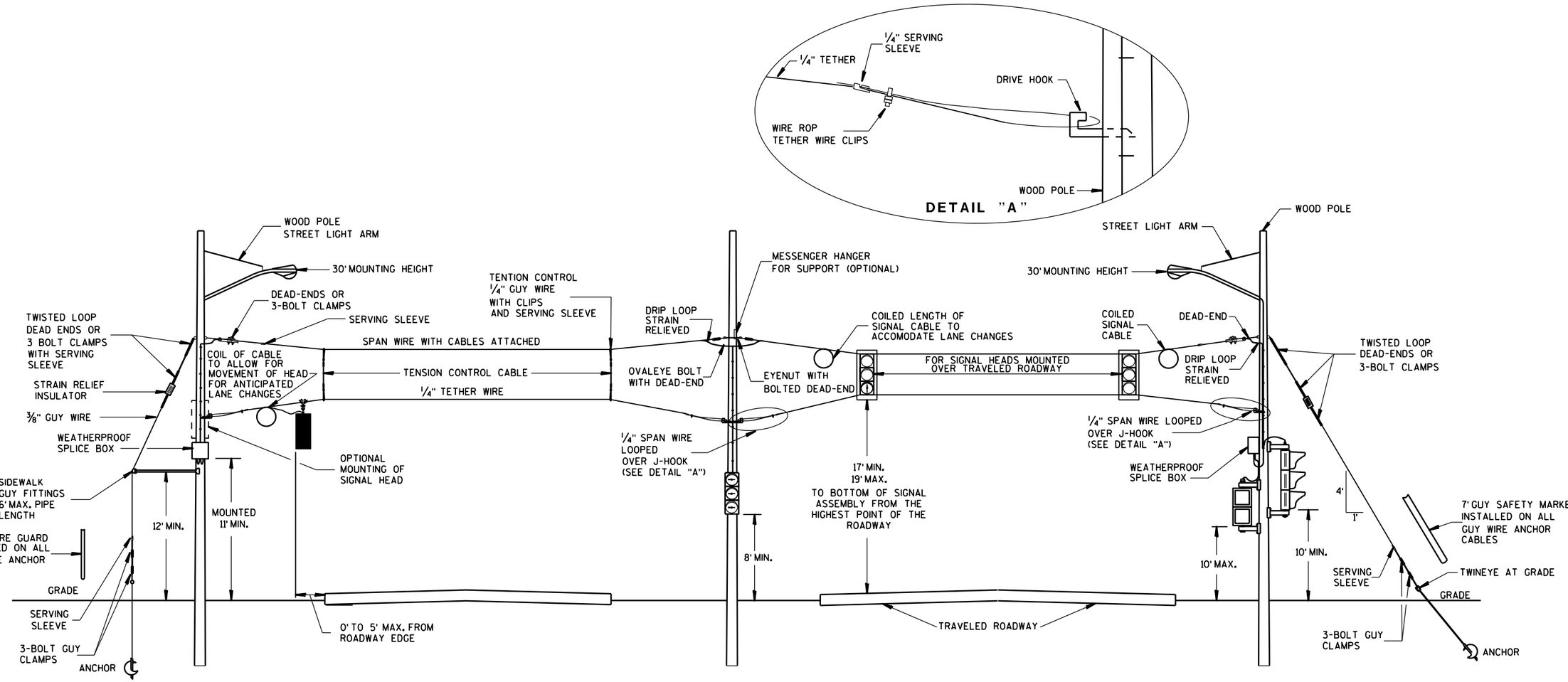
SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June. 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 G 1-4b



SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.

3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

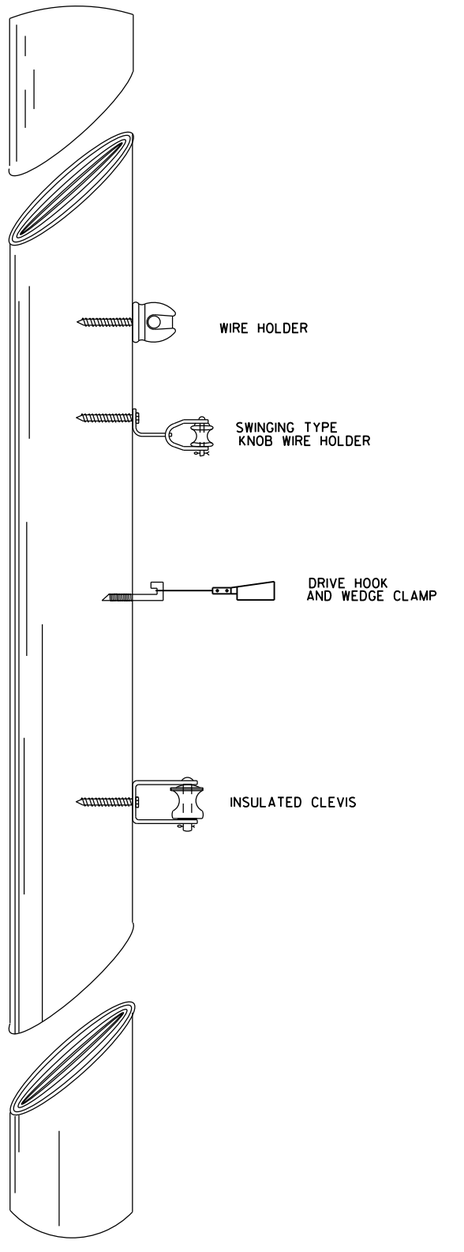
SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

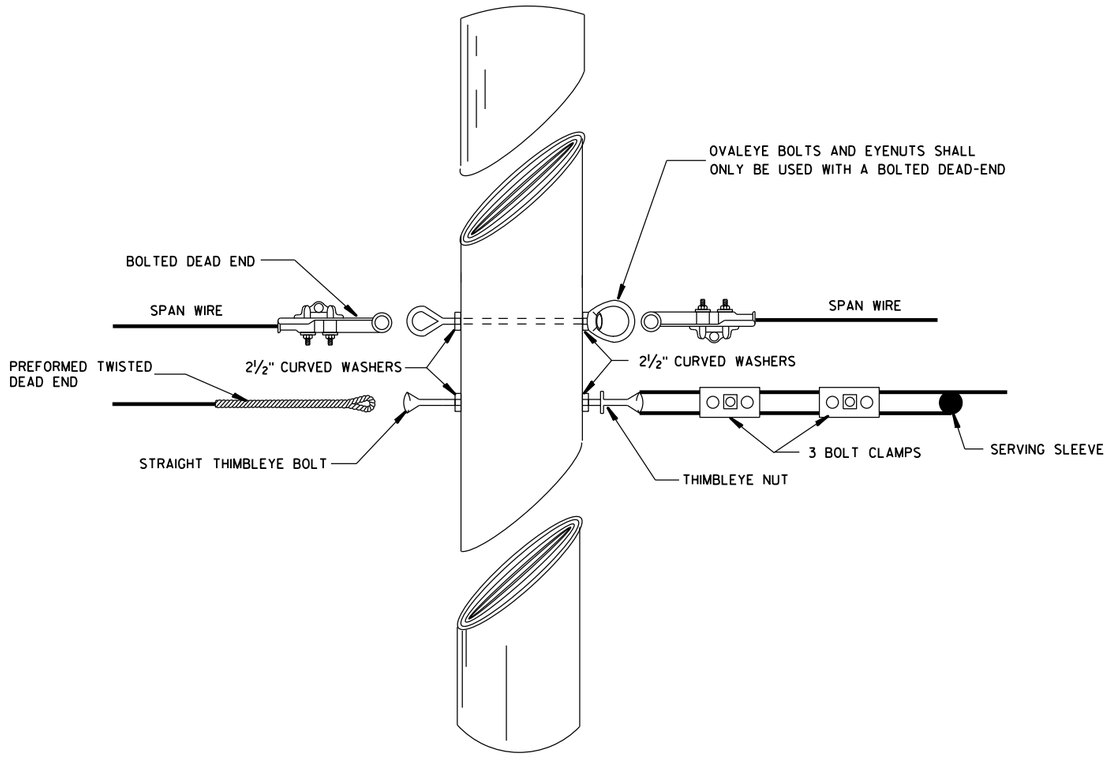
APPROVED
June. 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 G 1-4c



TYPICAL CABLE HANGERS



TYPICAL DEAD-ENDING

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

6

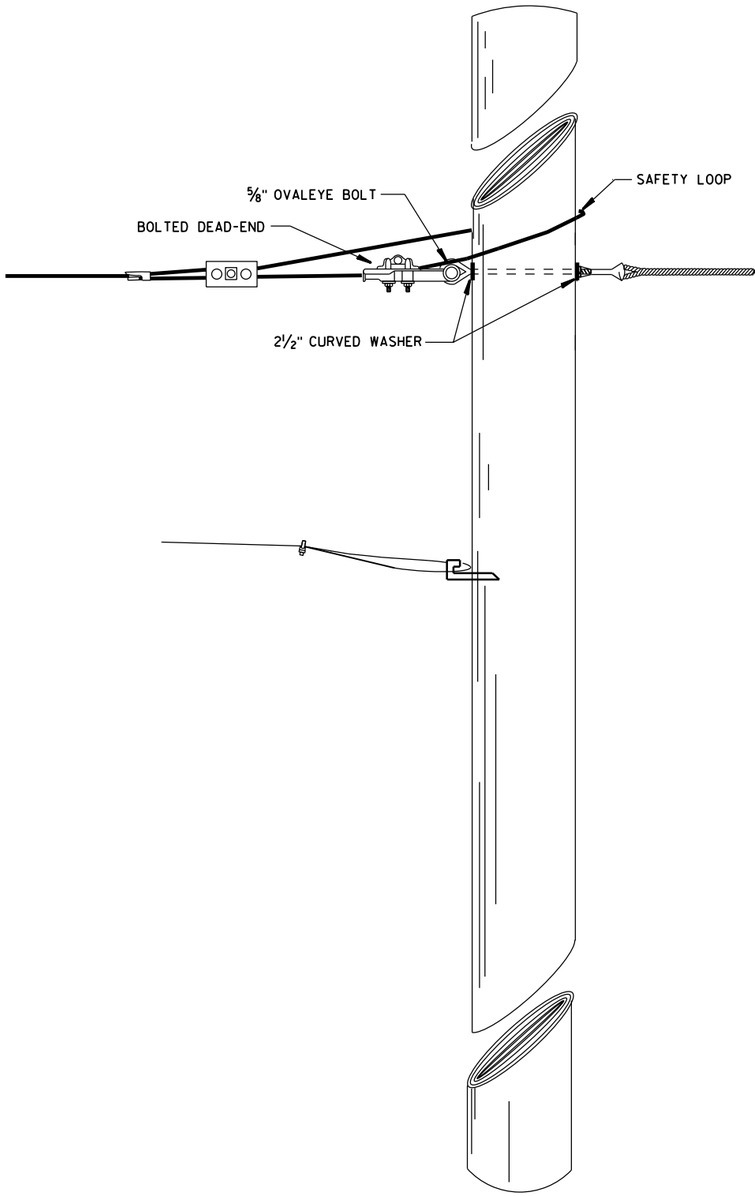
S.D.D. 9 G 1-4d

6

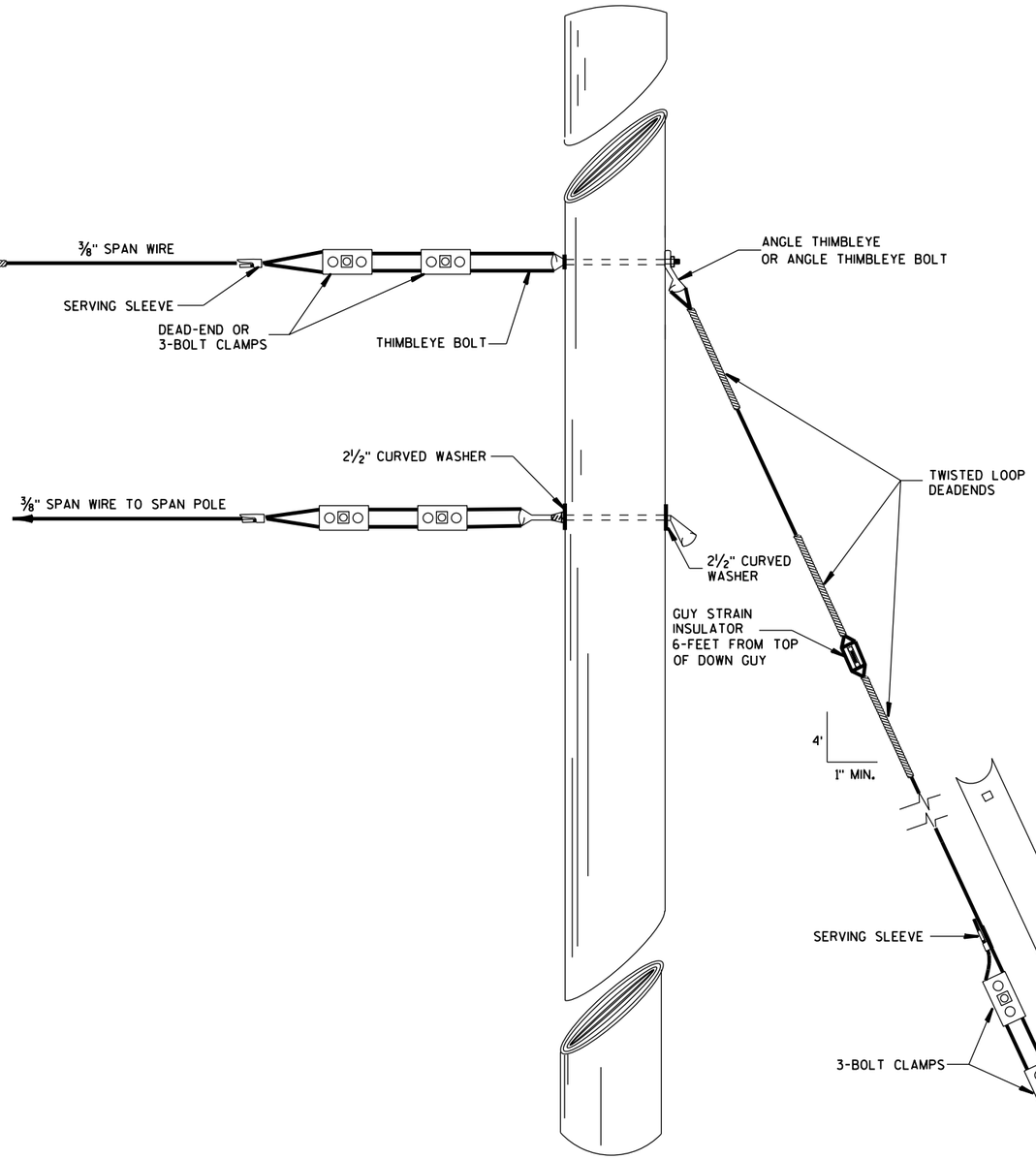
S.D.D. 9 G 1-4d

GENERAL NOTES

1. USE ¾" DRILL IN WOOD POLE TO PROVIDE HOLE FOR ⅝" BOLTS.
2. SAFTY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE



GUY POLE

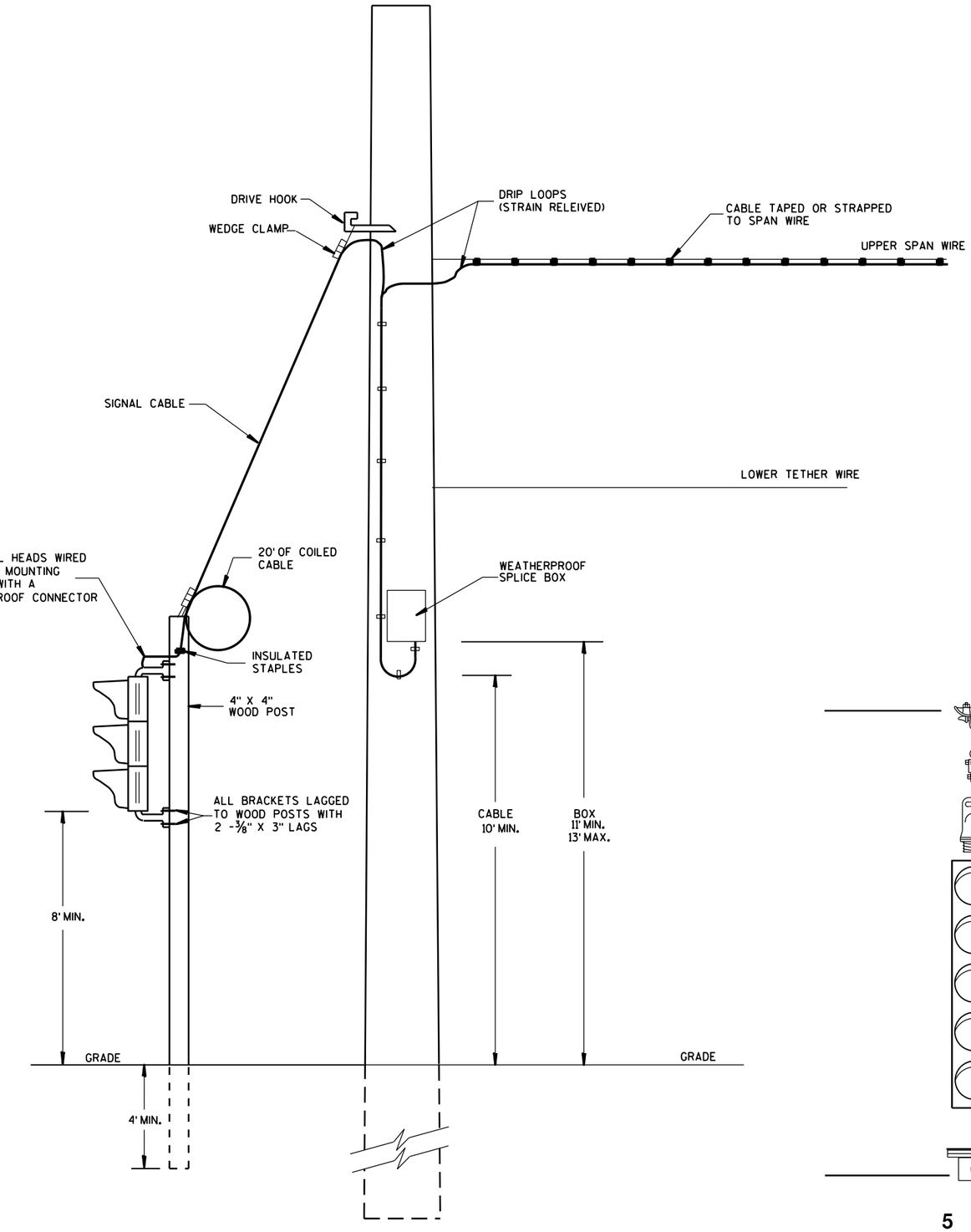
TYPICAL DEAD-ENDINGS OR GUYING

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

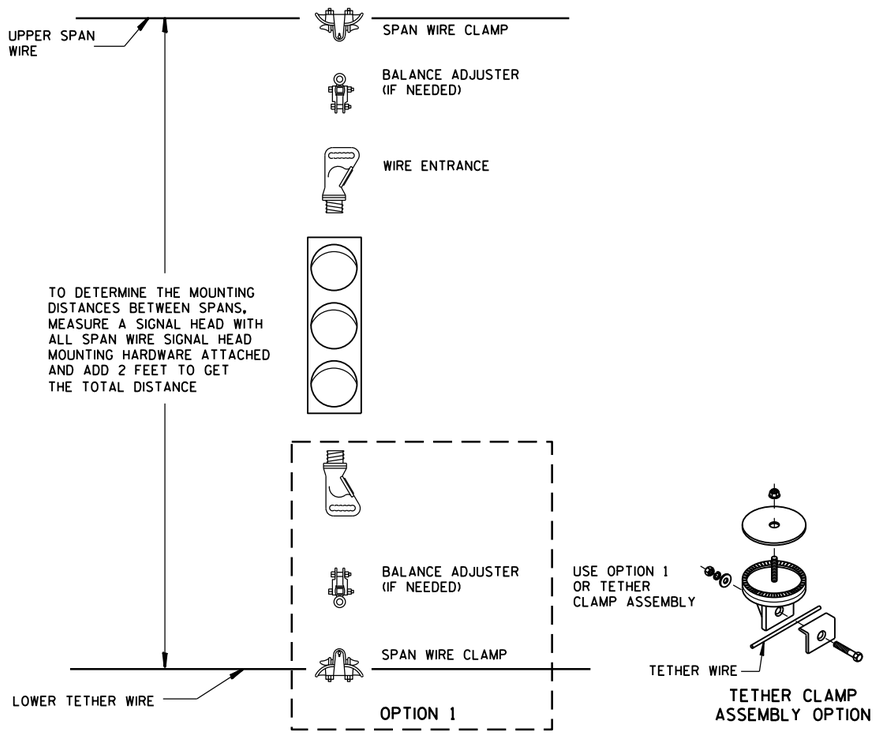
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June. 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

S.D.D. 9 G 1-4e
6

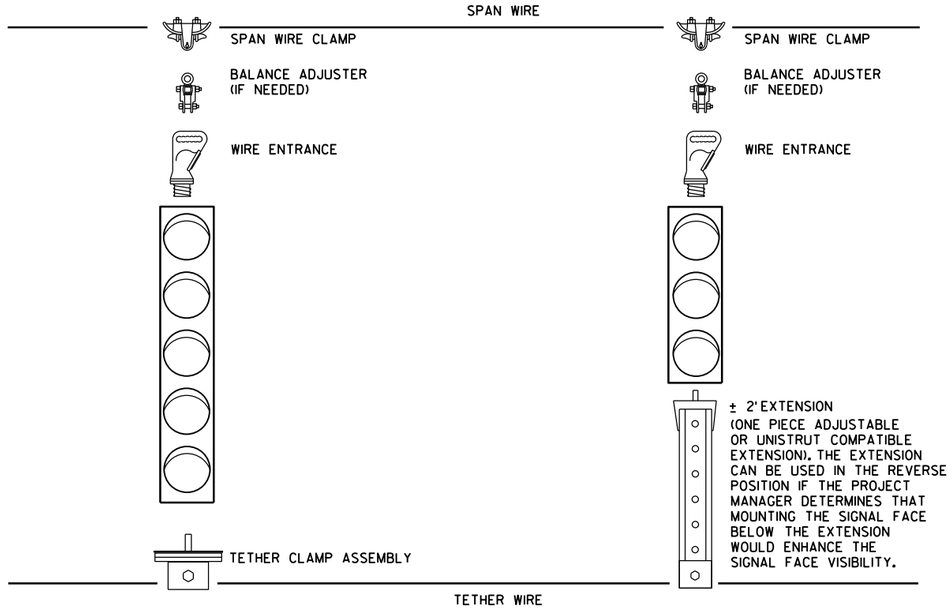


TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TETHER CLAMP ASSEMBLY OPTION

TYPICAL SPAN WIRE MOUNTING HARDWARE



5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

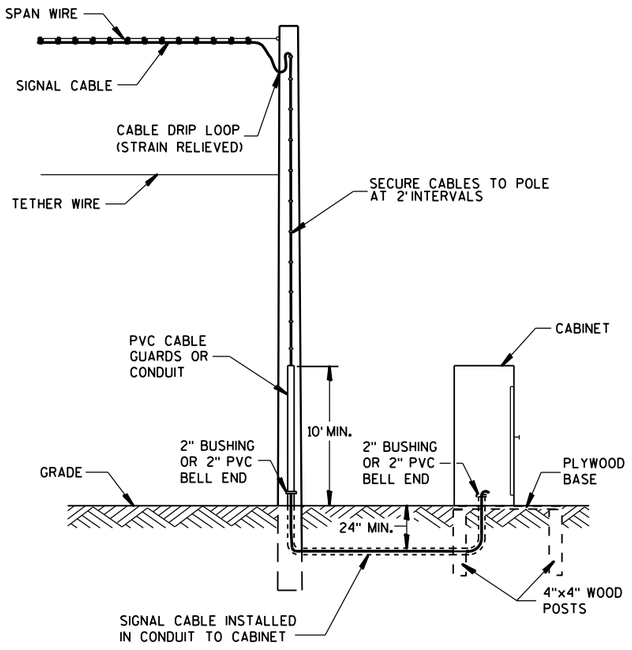
APPROVED
June. 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

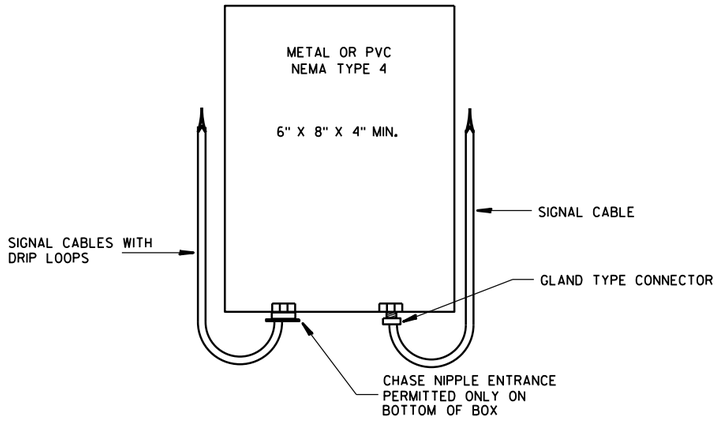
6

S.D.D. 9 G 1-4f

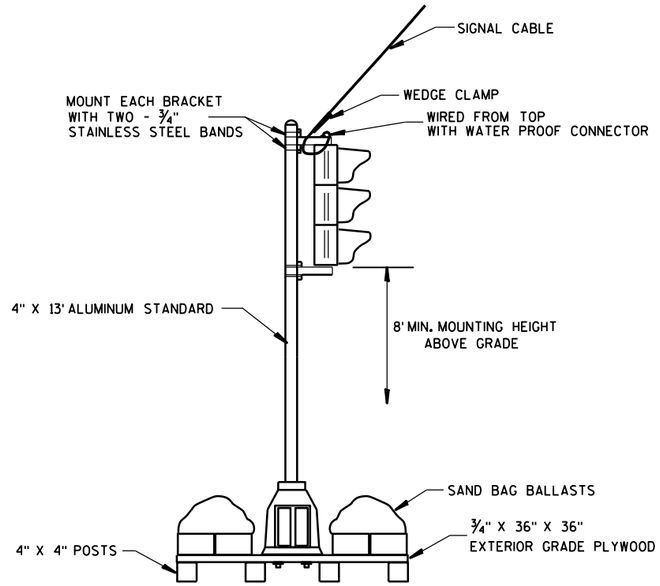
6

S.D.D. 9 G 1-4f

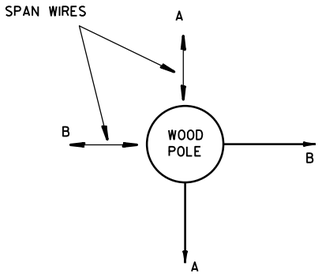




SPLICE BOX

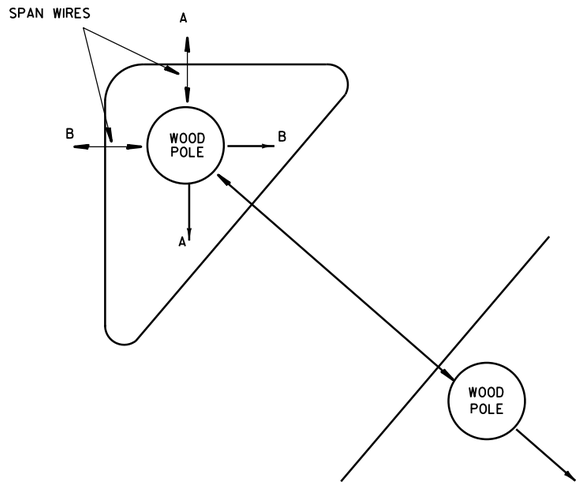


TYPICAL SKID TYPE TEMPORARY

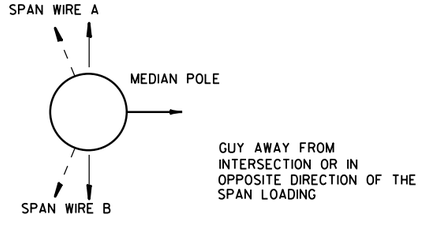


ALL DOWN OR SIDEWALK GUYS
SHALL BE INSTALLED IN THE
OPPOSITE DIRECTION OF THE
STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



MEDIAN POLES

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

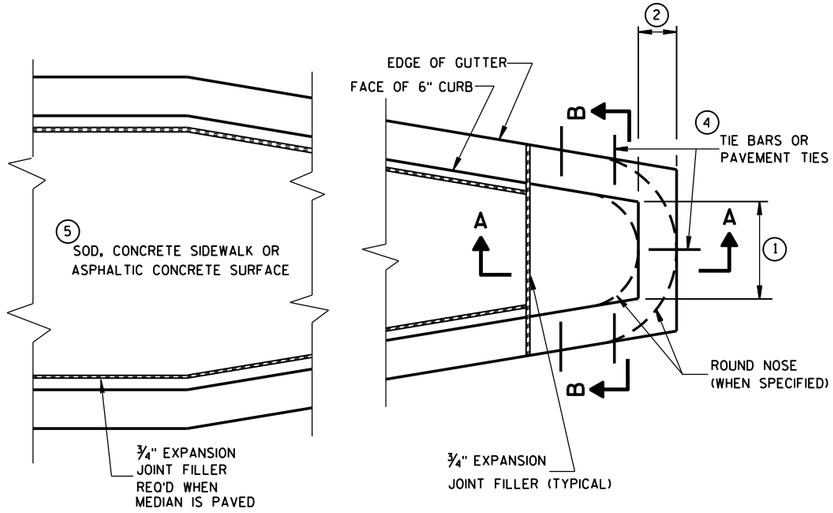
APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

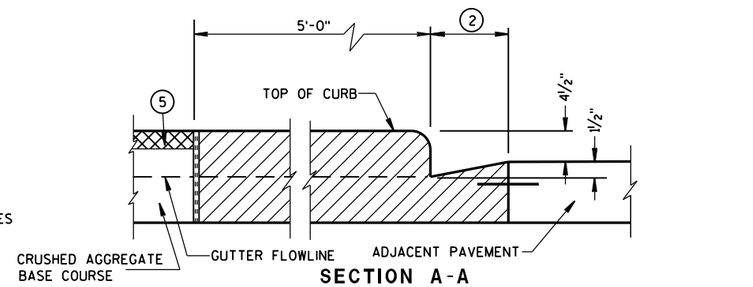
6

S.D.D. 9 G 1-4g

6

S.D.D. 9 G 1-4g





CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

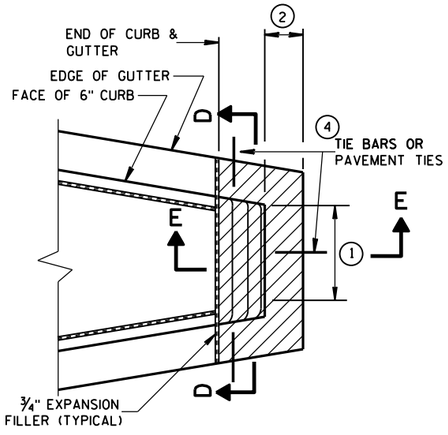
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

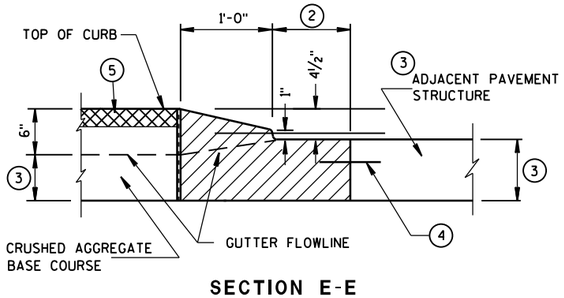
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

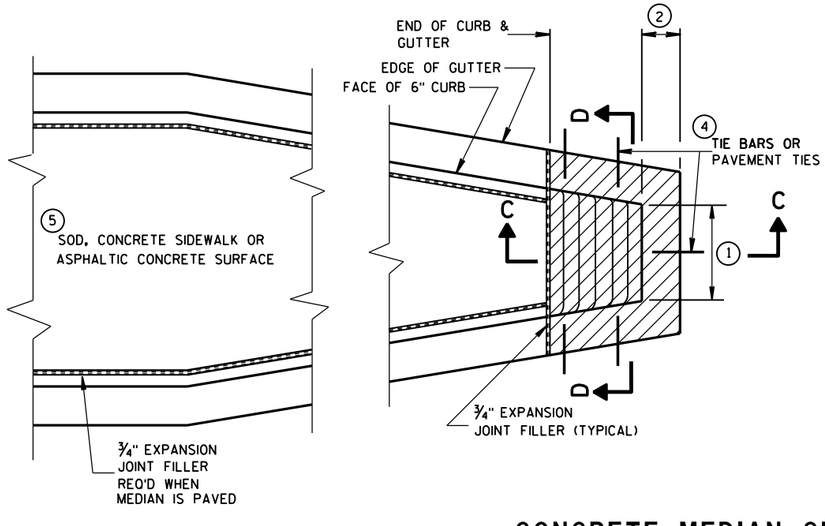
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

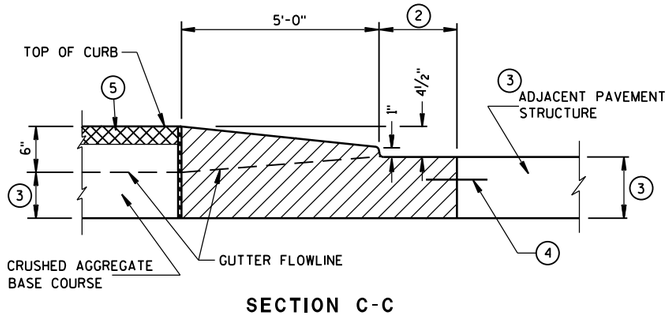




SECTION E-E

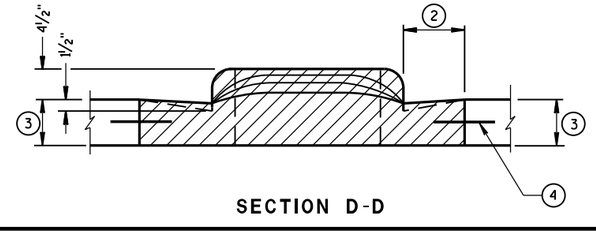
CONCRETE MEDIAN SLOPED NOSE TYPE 2





SECTION C-C

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

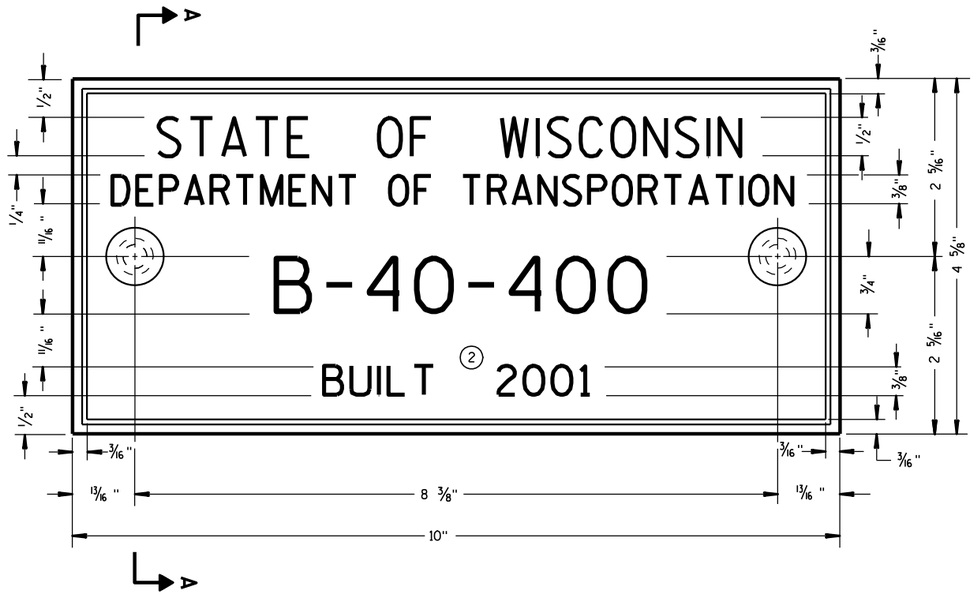
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

6

S.D.D. 11 B 2-2

6

S.D.D. 11 B 2-2



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

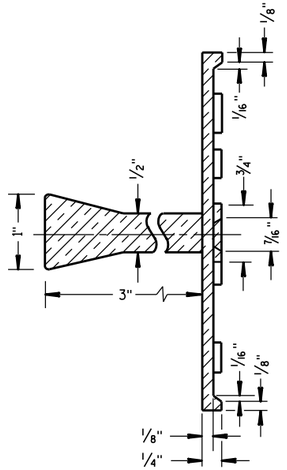
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

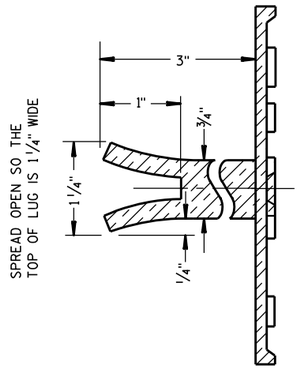
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

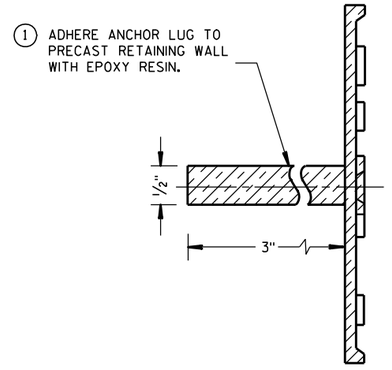
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

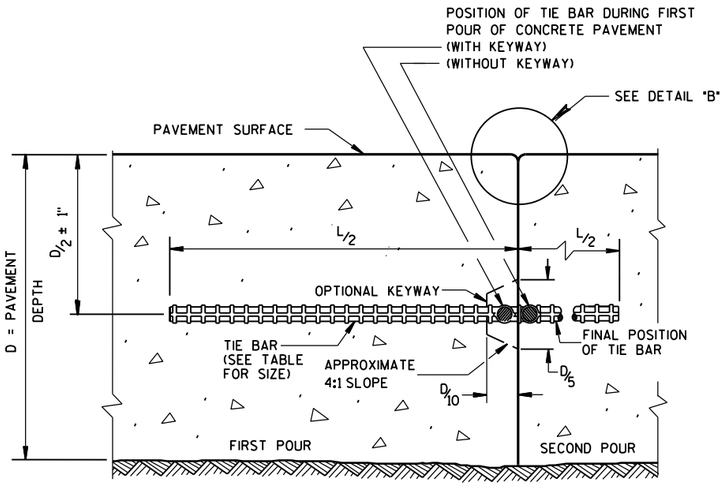
3/26/10 DATE

/S/ Scot Beck CHIEF STRUCTURAL DEVELOPMENT ENGINEER

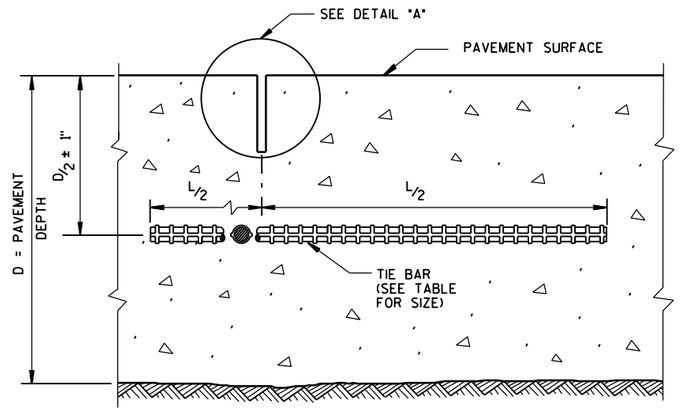
FHWA

6

S.D.D. 12 A 3-10



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

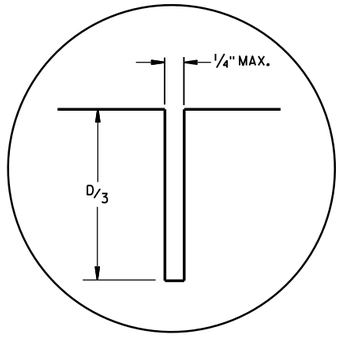
(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

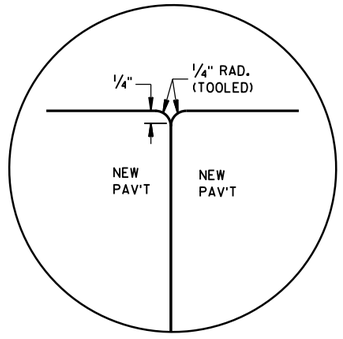
PLAN VIEW

SECTION A-A

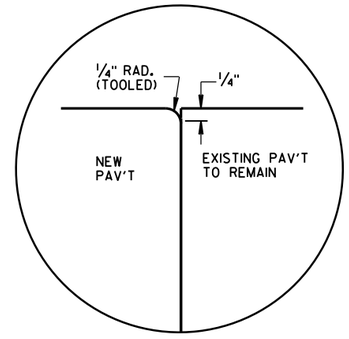
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



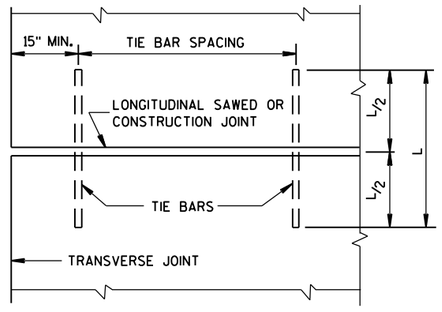
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

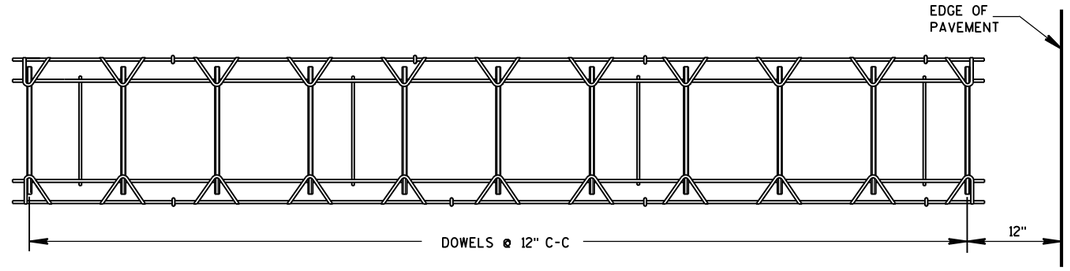
CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

6

S.D.D. 13 C 1-18

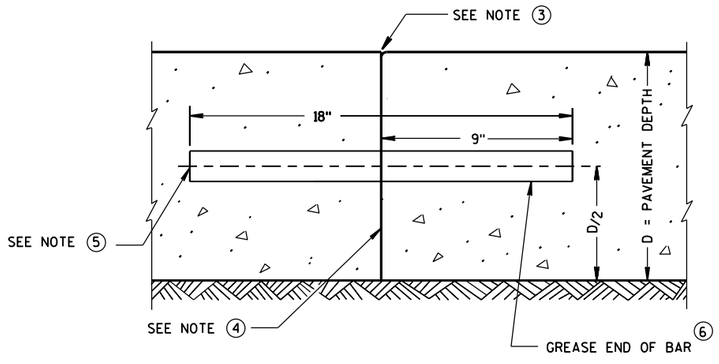


PLAN VIEW

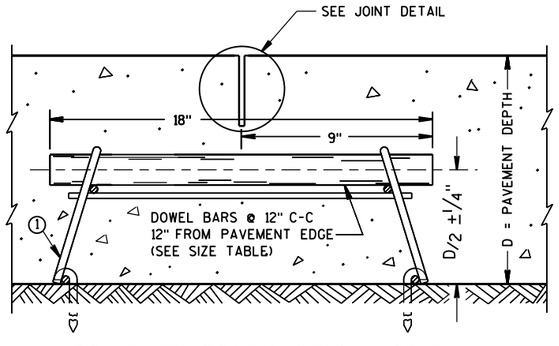


SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



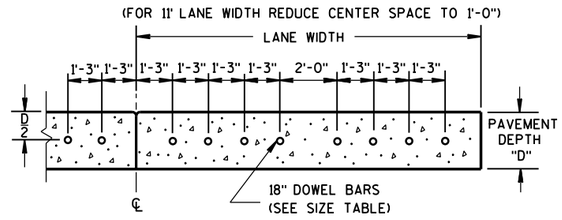
TRANSVERSE CONSTRUCTION JOINT



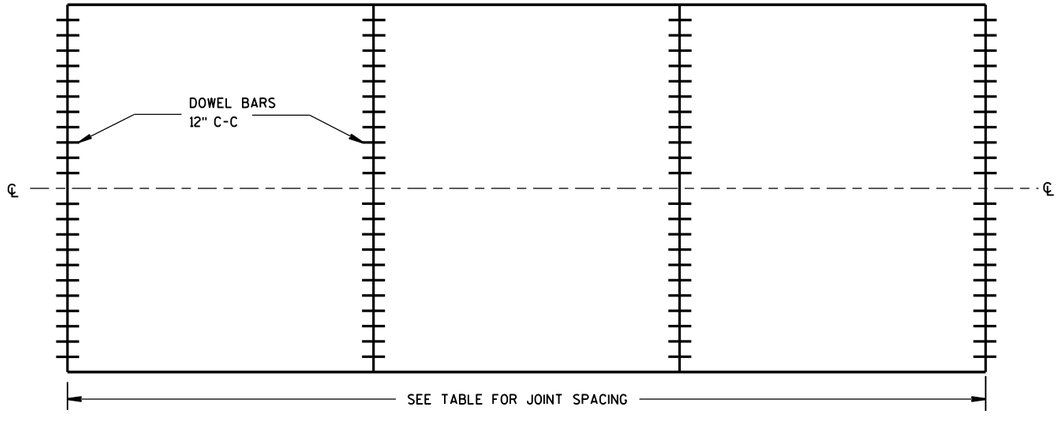
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① **OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.**

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

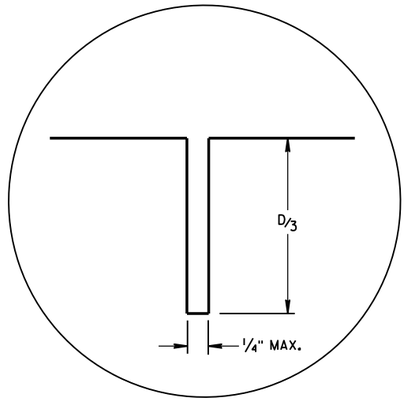
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

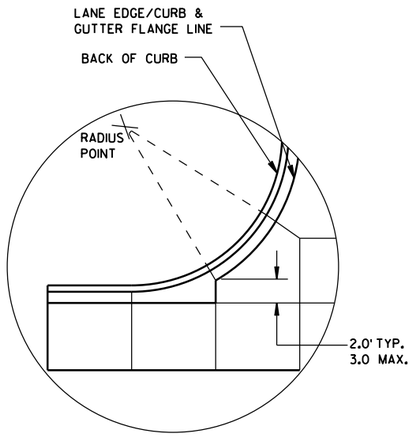
URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

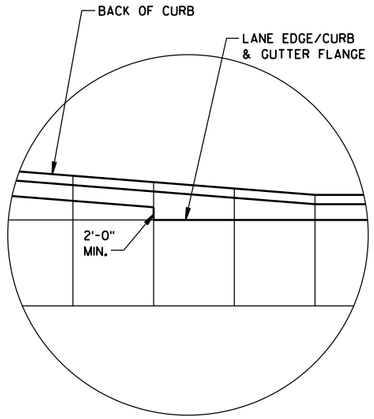
APPROVED
5/3/2013 DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE ENGINEER
FHWA

6

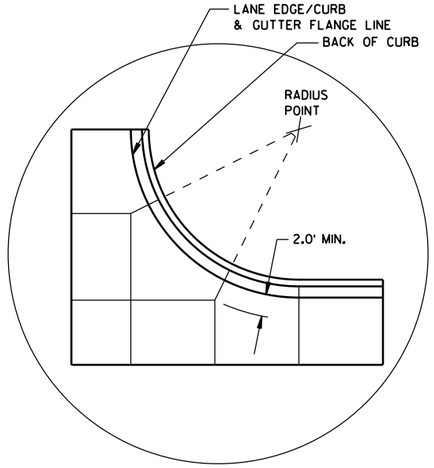
S.D.D. 13 C 13-8



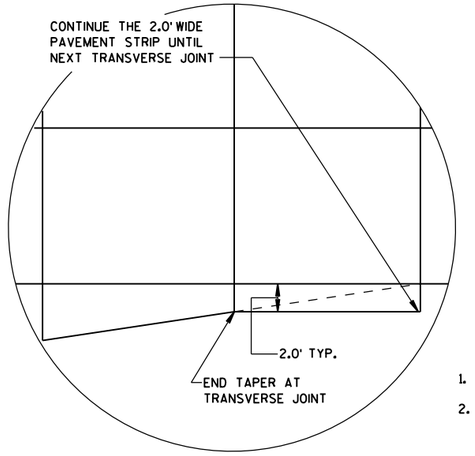
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

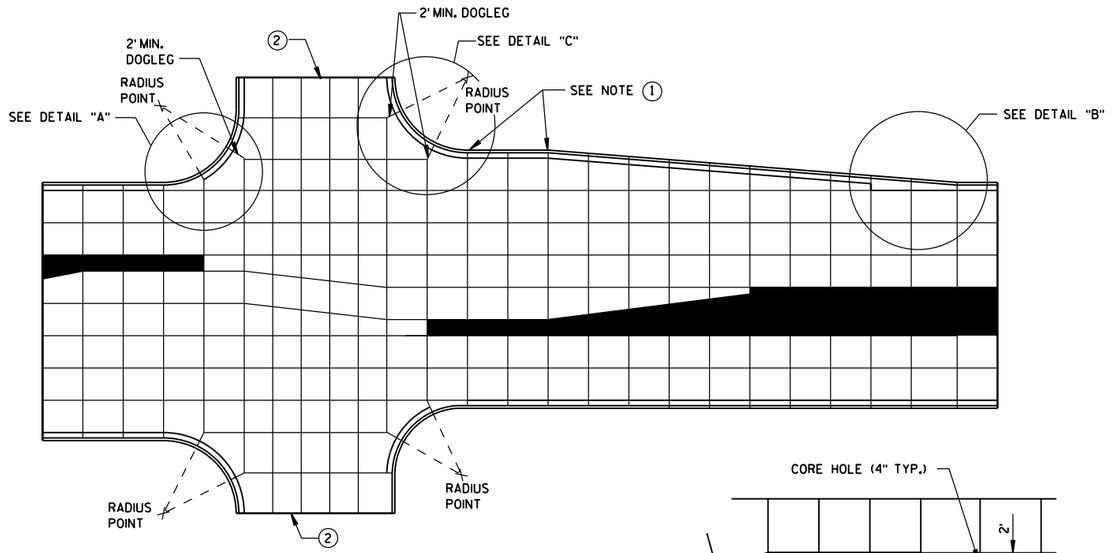
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

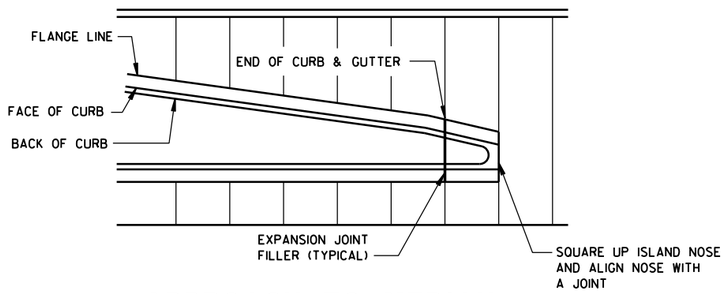
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



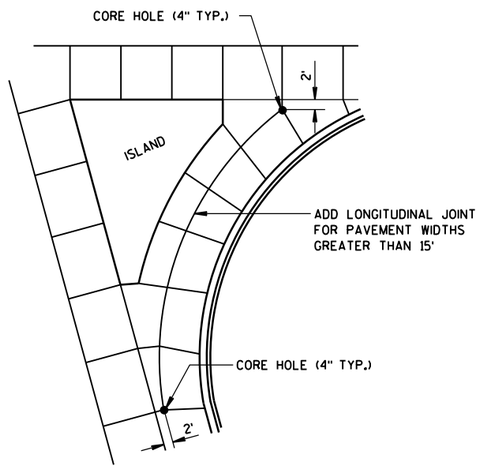
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

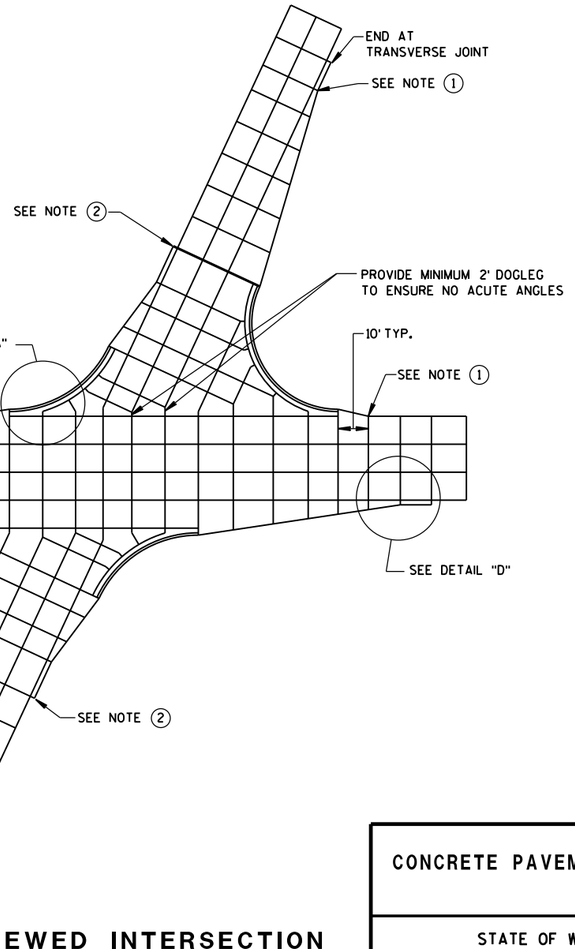
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



APPROACH TO MEDIAN



LARGE RIGHT TURN



SKEWED INTERSECTION

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

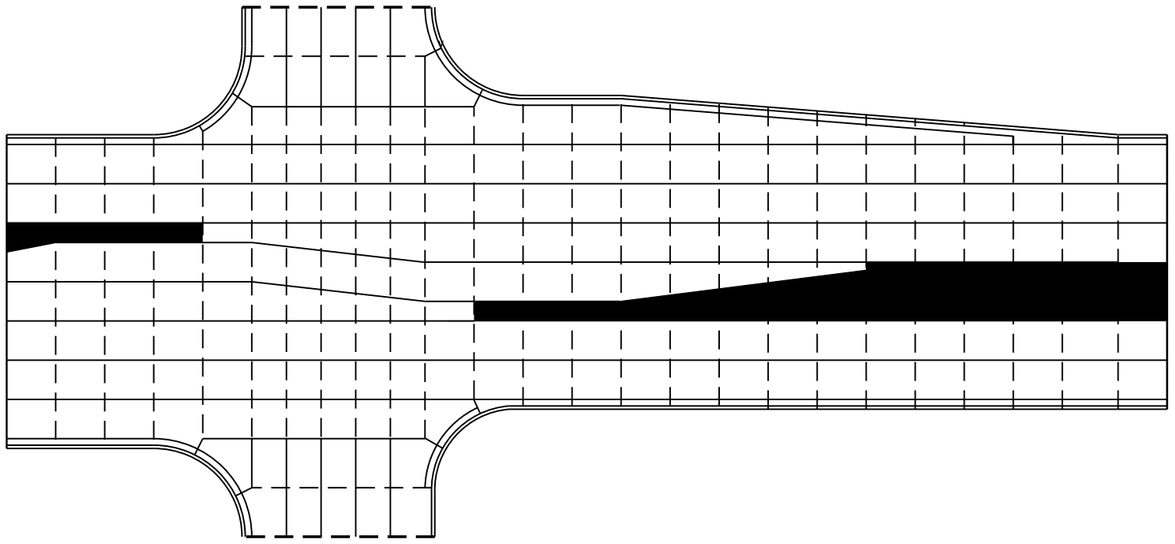
6
S.D.D. 13 C 18-3a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

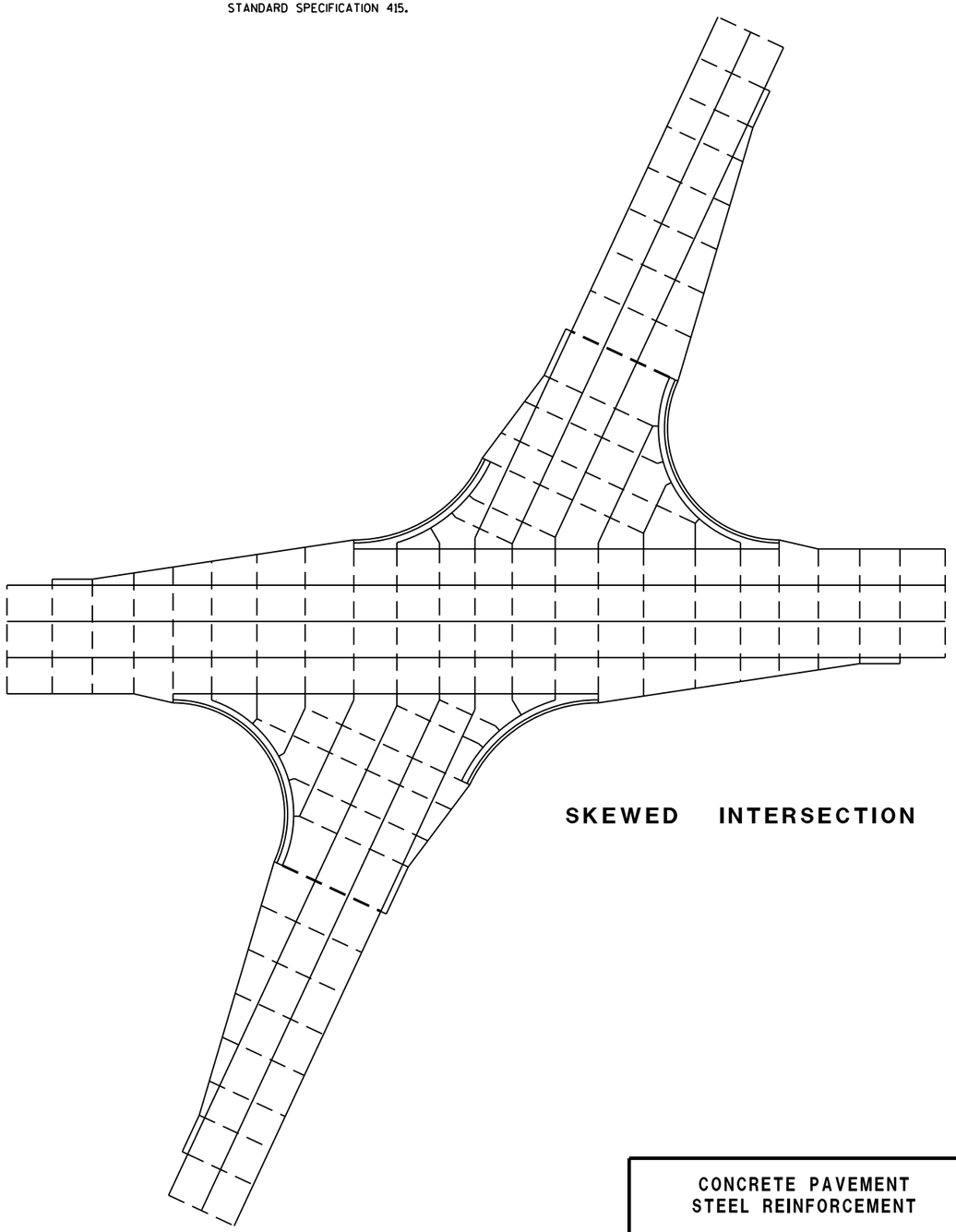
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

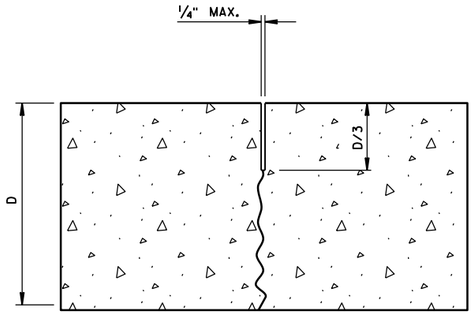
S.D.D. 13 C 18-3b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

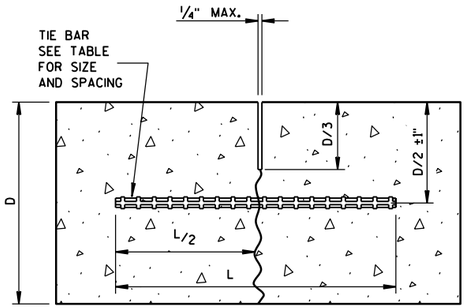
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 13 C 18-3b



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

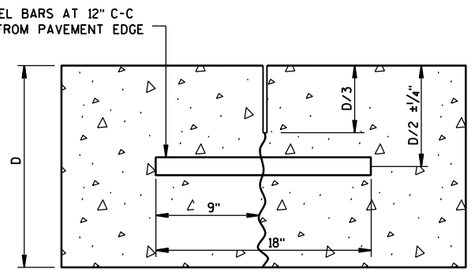
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

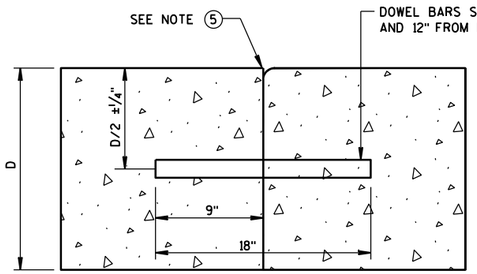
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



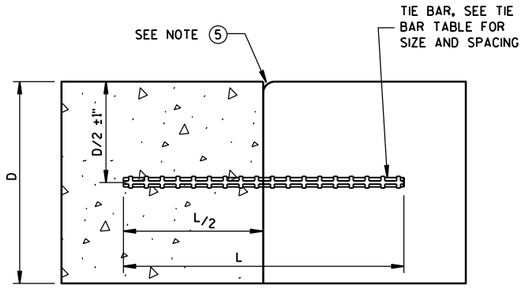
DOWELED-TRANSVERSE

CONTRACTION JOINTS

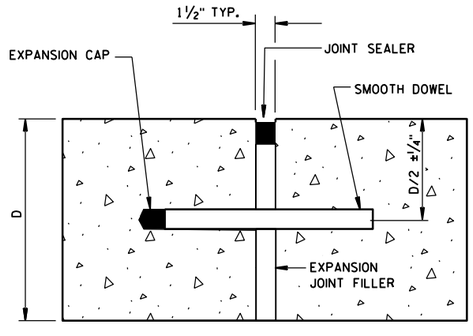
SEE NOTE (2)



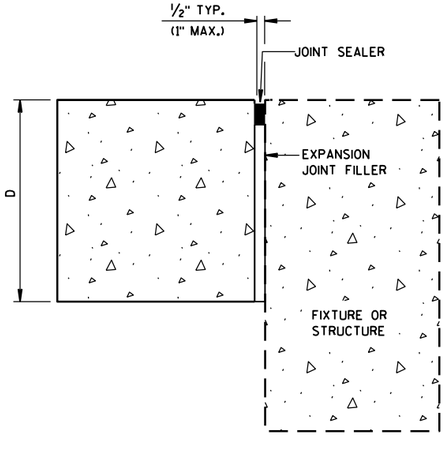
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL

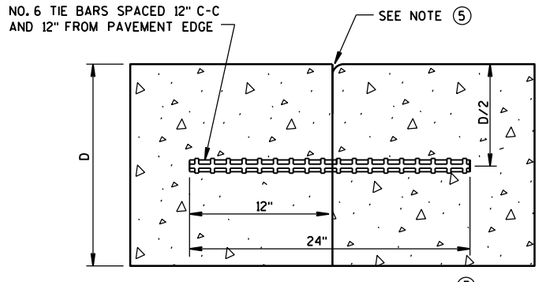


DOWELED-TRANSVERSE
SEE NOTE (1)

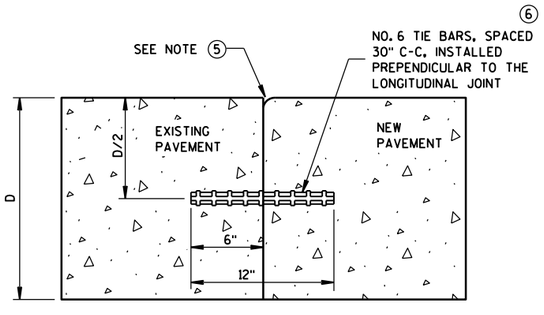


UNTIED-LONGITUDINAL

EXPANSION JOINTS



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS

SEE NOTE (4)

CONCRETE PAVEMENT
JOINT TYPES

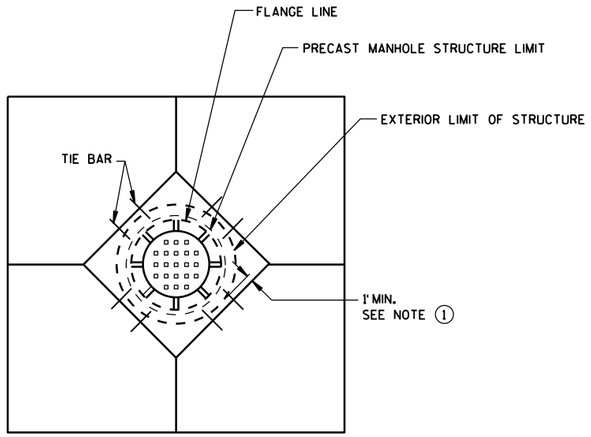
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 474

6

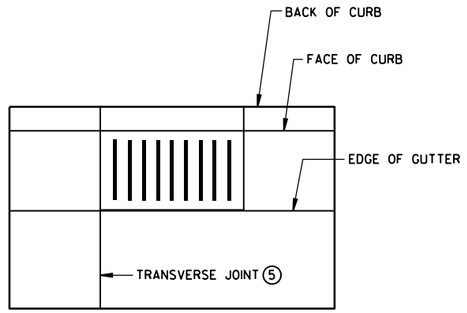
S.D.D. 13 C 18-3c

6

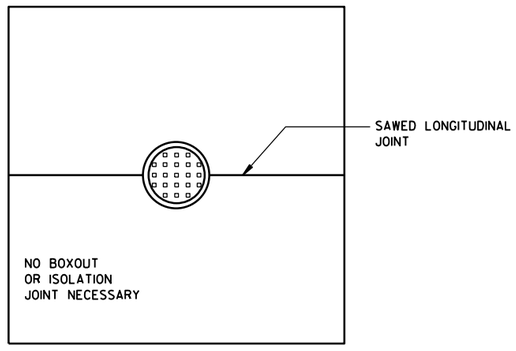
S.D.D. 13 C 18-3c



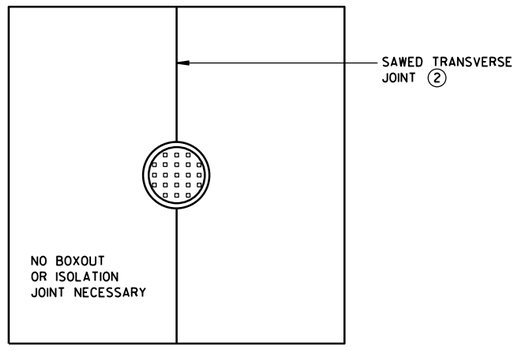
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



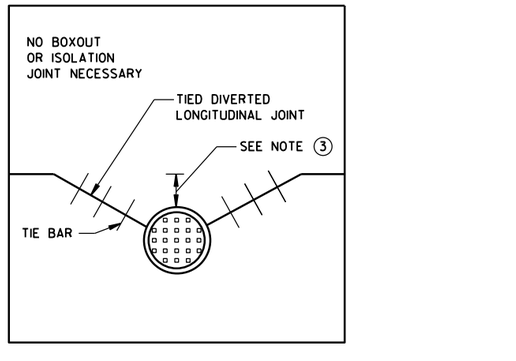
INLET WITH TRANSVERSE JOINT



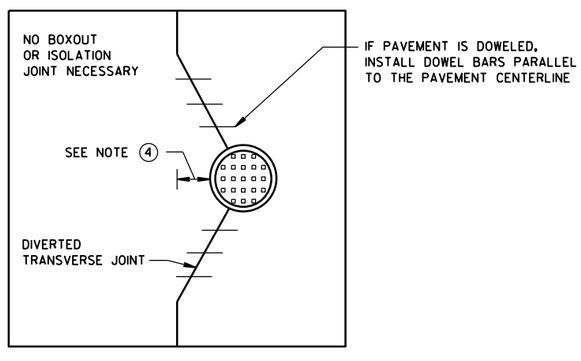
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

(1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

(2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

(3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

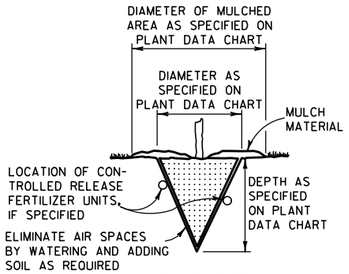
CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

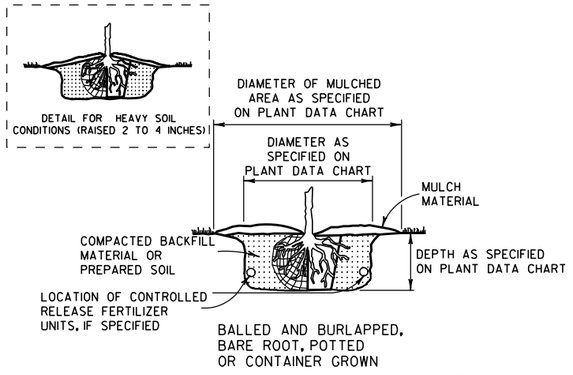
APPROVED
June, 2015
DATE
/S/ Peter Kemp, P.E.
PAVEMENT SUPER
FHWA

6

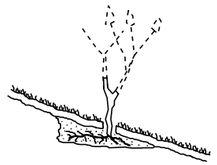
S.D.D. 13 C 18-3d



MACHINE MOVED

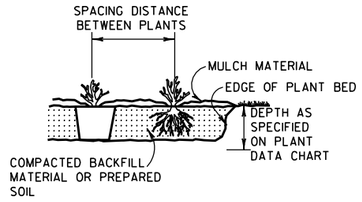


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



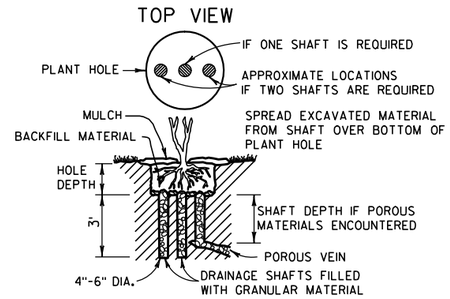
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



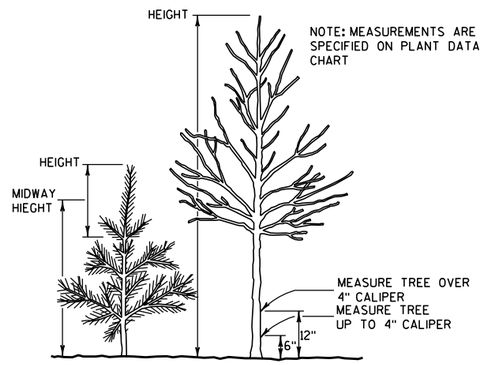
PREPARED BED (BARE ROOT AND POTTED)

PLANTING

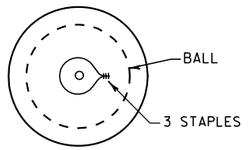


NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

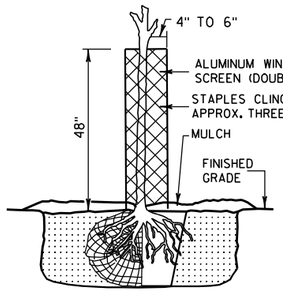
DRAINING



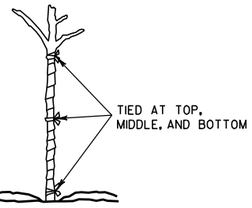
MEASURING



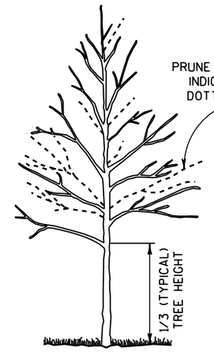
TOP VIEW



RODENT PROTECTION



WRAPPING



TALL DECIDUOUS TREES (ASH, MAPLE, LINDEN, OAK)

SINGLE STEMMED LOW DECIDUOUS TREES (CRABS AND OTHER SINGLE STEM TYPE)

MULTI-STEMMED LOW DECIDUOUS TREES OR LARGE SHRUBS (HAWTHORN, SERVICEBERRY)

NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES

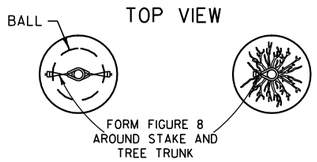


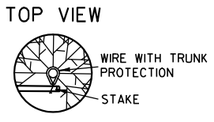
SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

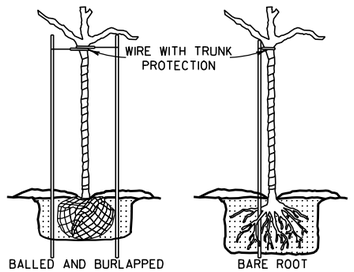
SUMAC

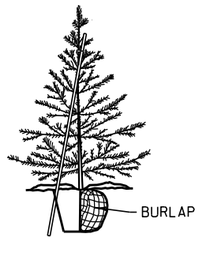
TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

PRUNING



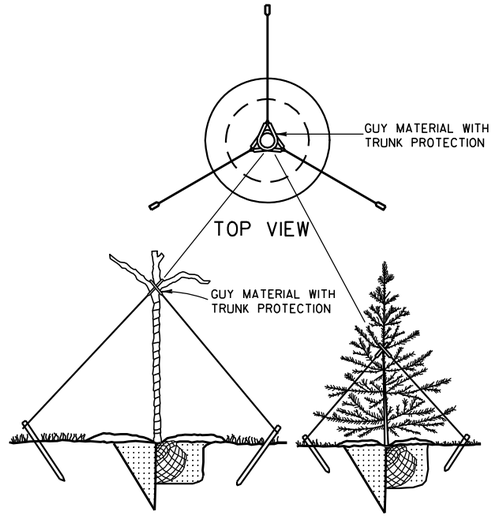




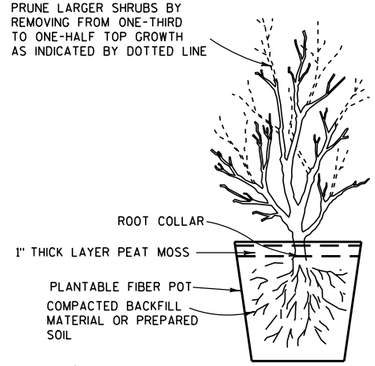


NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING



POTTING

NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

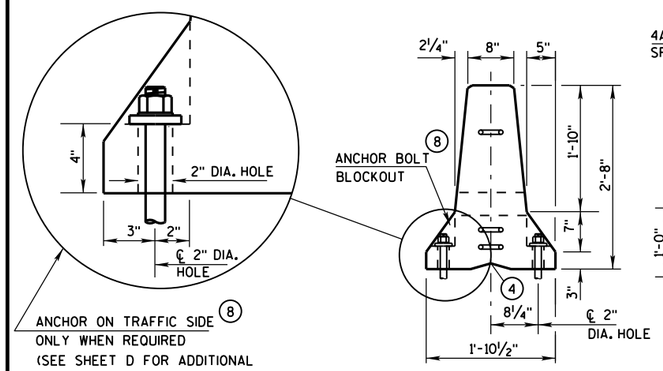
TREE PLANTING DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

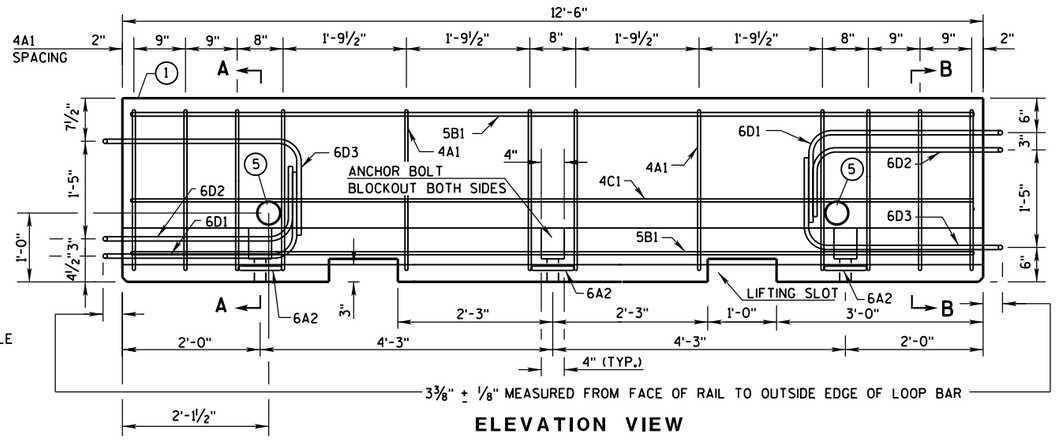
APPROVED
4/11/94
DATE
/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

6

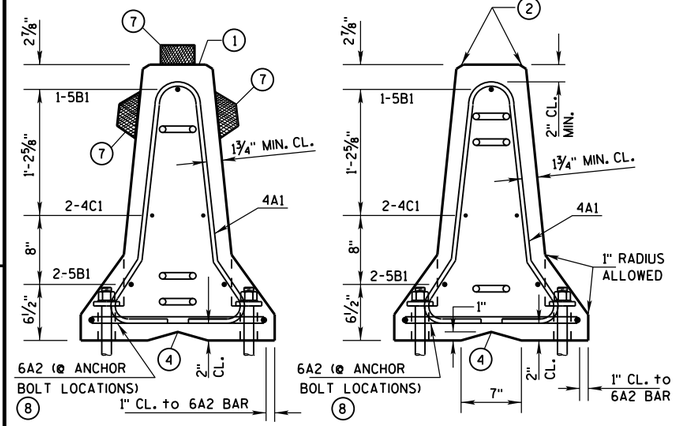
S.D.D. 14 A 2-1



END VIEW

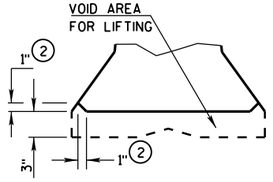


ELEVATION VIEW

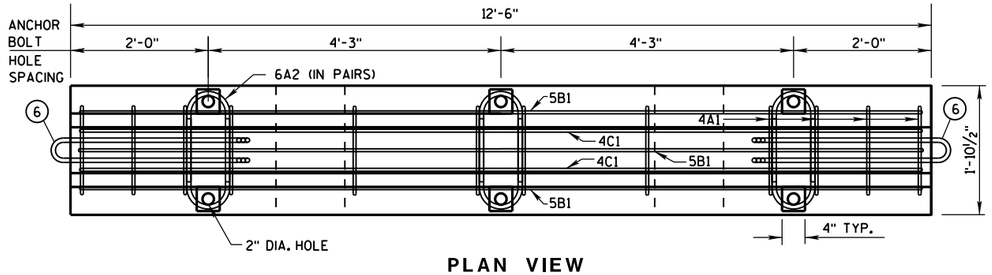


SECTION A-A
(STIRRUP PLACEMENT)

SECTION B-B
(STIRRUP PLACEMENT)

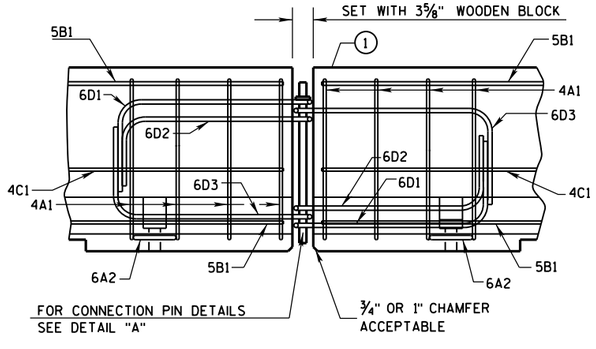


DETAIL "B"
LIFTING SLOT DETAIL

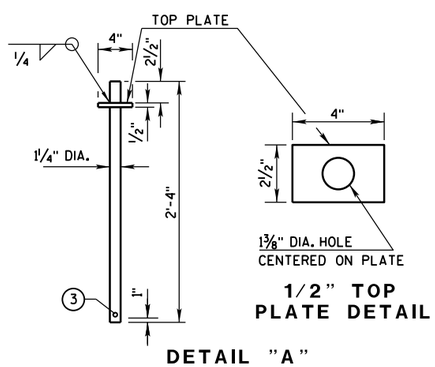


PLAN VIEW

DETAILS OF BARRIER SECTION

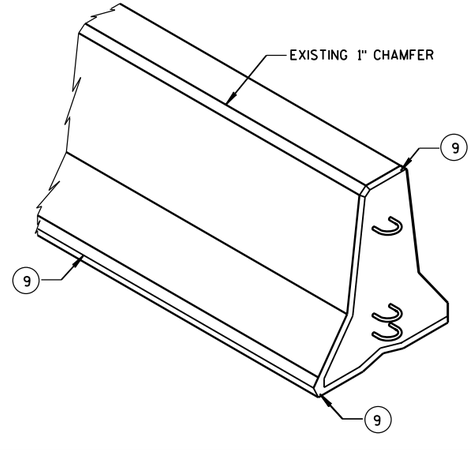


DETAILS OF BARRIER CONNECTION



1/2" TOP
PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-14(a) THRU 14B7-14(h).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

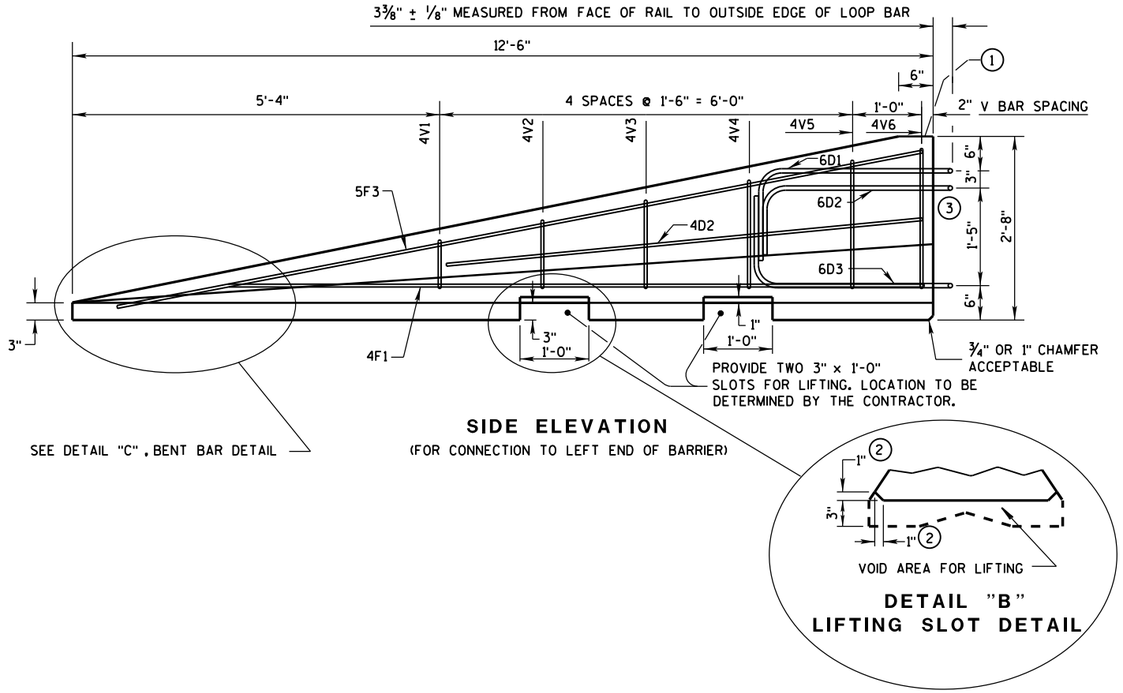
(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

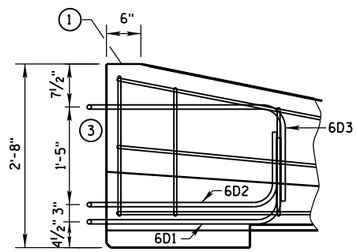
(8) SEE SHEET D FOR ANCHORING CRITERIA.

(9) 1" CHAMFER OPTIONAL.

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

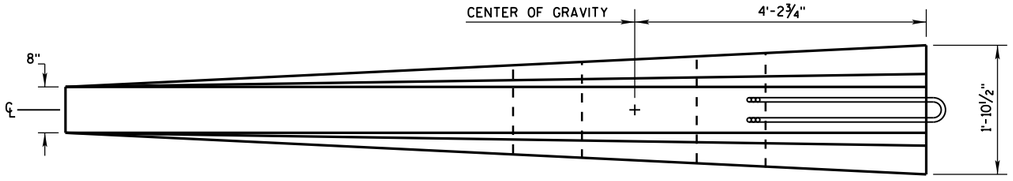
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 477

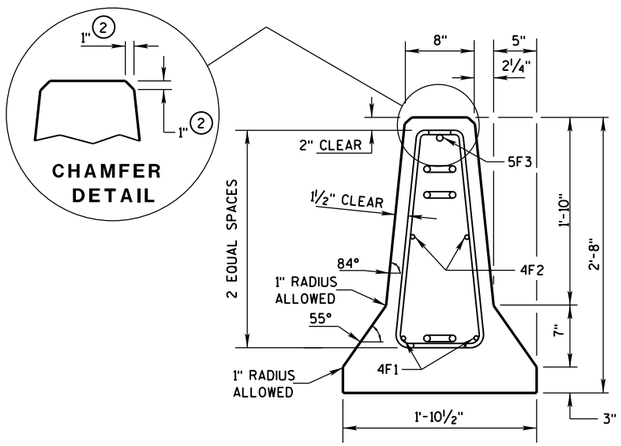


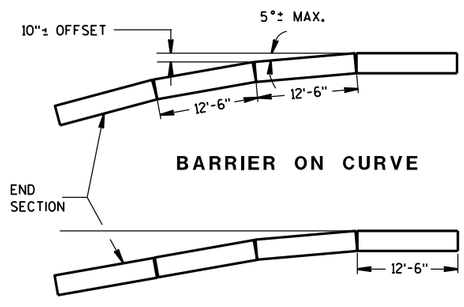


GENERAL NOTES

1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.







POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

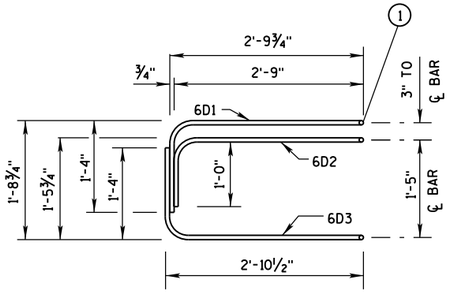
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-14b

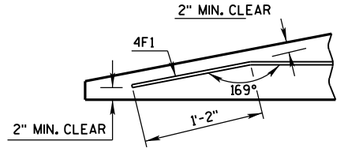
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

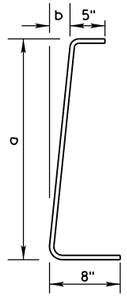
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

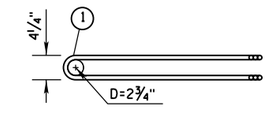
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

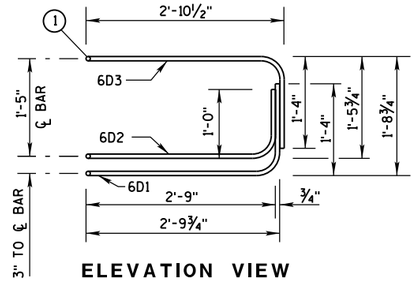
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

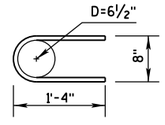
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



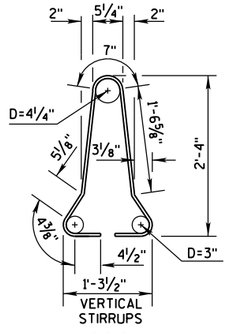
PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



ELEVATION VIEW



6A2



4A1

BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

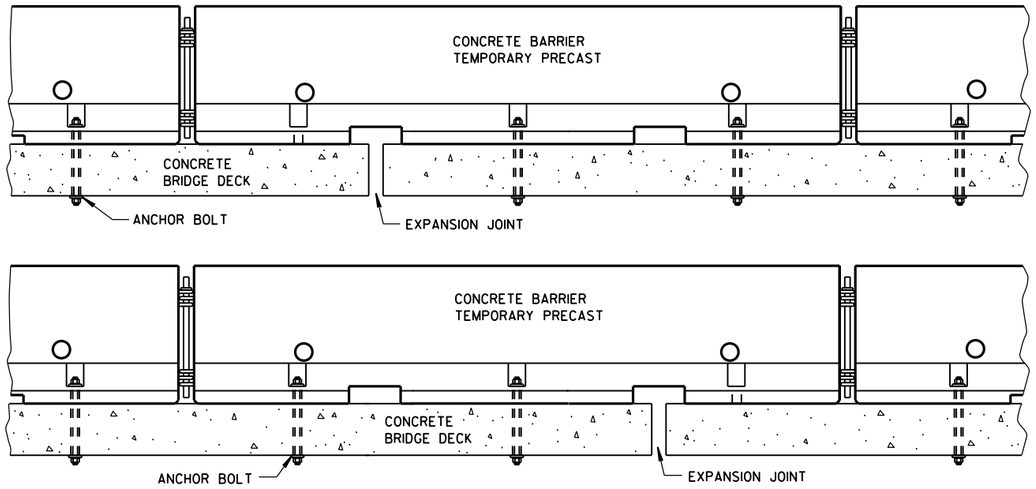
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 479

6

S.D.D. 14 B 7-14c

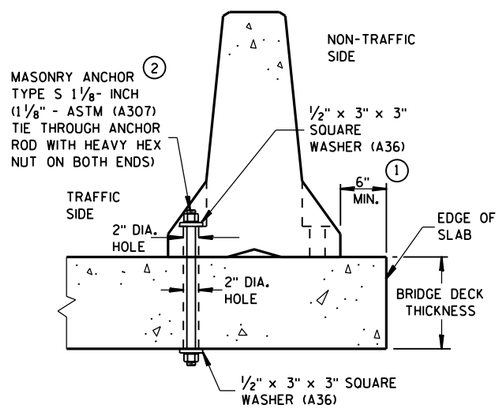
6

S.D.D. 14 B 7-14c



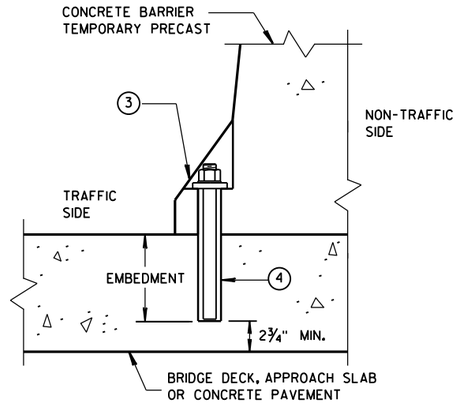
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)



THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)



REMOVABLE ADHESIVE BONDED ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT ②

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

① CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF:
THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

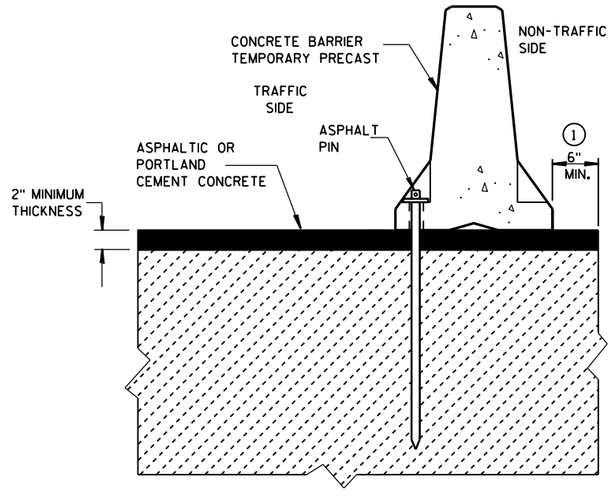
② ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1⅛-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALL ANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CONCRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.

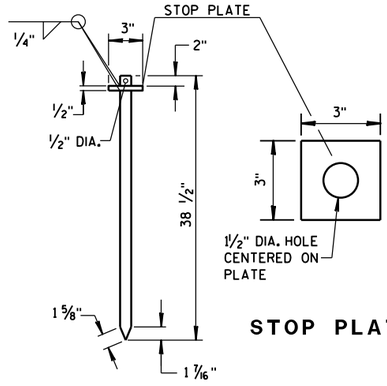
③ 1⅛" DIAMENTER A307 THREADED ROD, ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.

④ ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

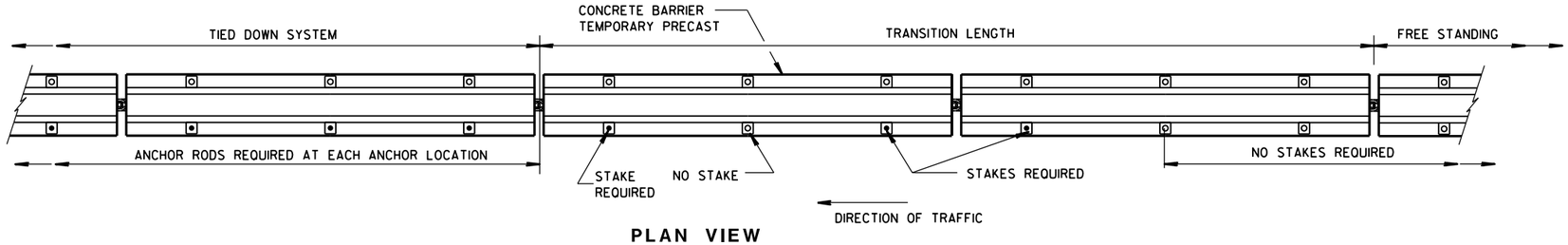
(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



STOP PLATE

ASPHALT PIN

(ASTM A36 STEEL)



PLAN VIEW

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

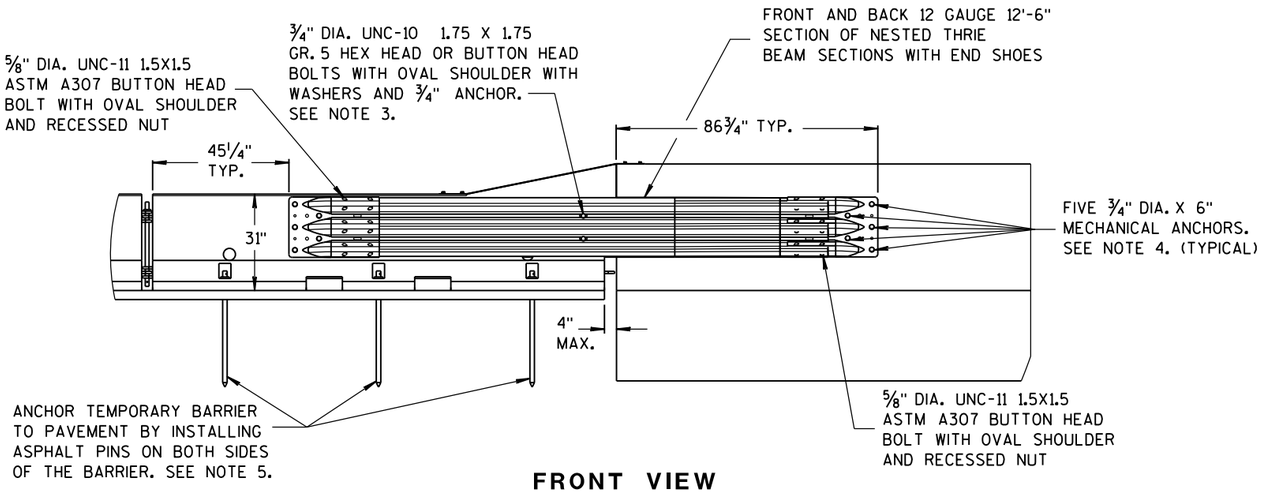
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 480

6

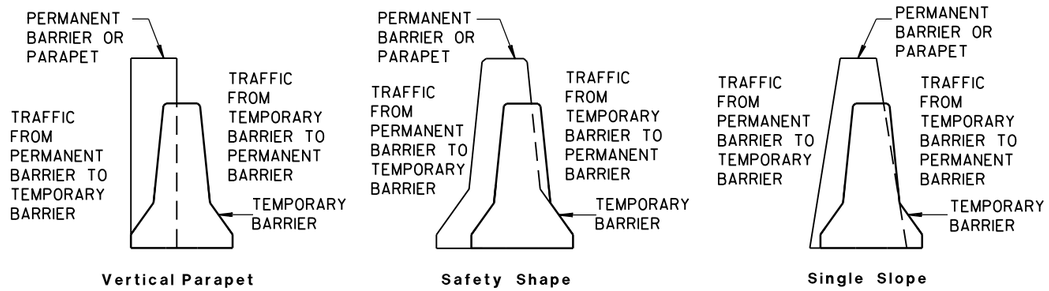
S.D.D. 14 B 7-14d

6

S.D.D. 14 B 7-14d



FRONT VIEW

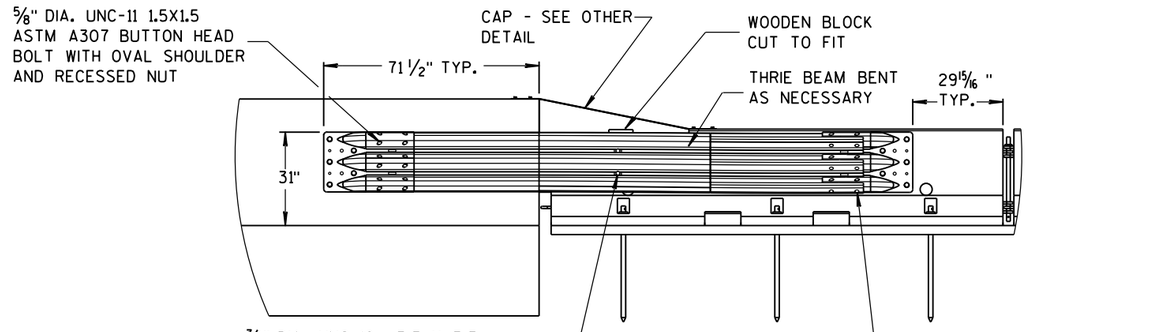


TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

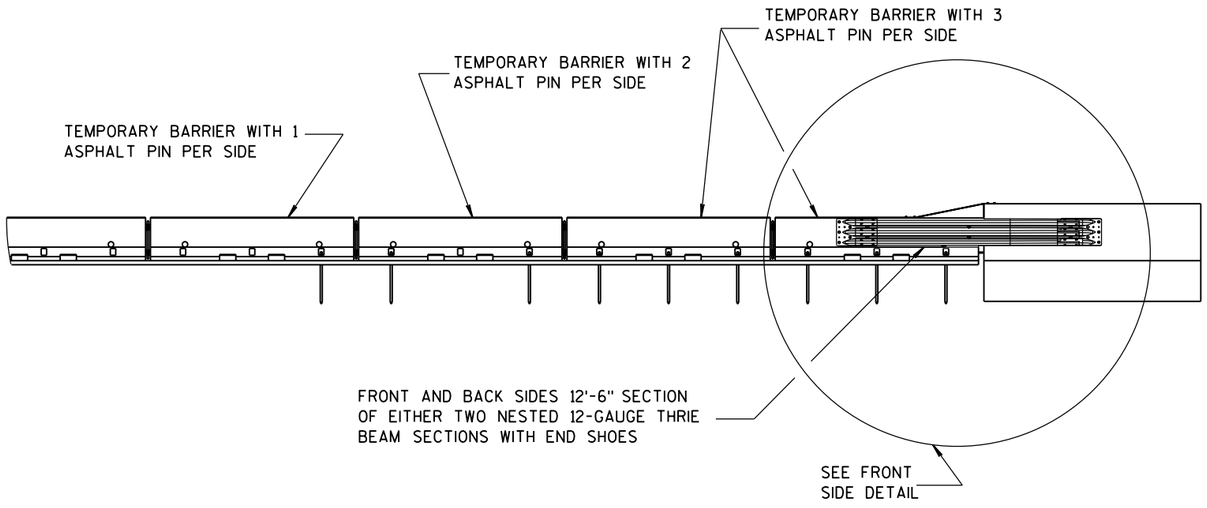
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS.

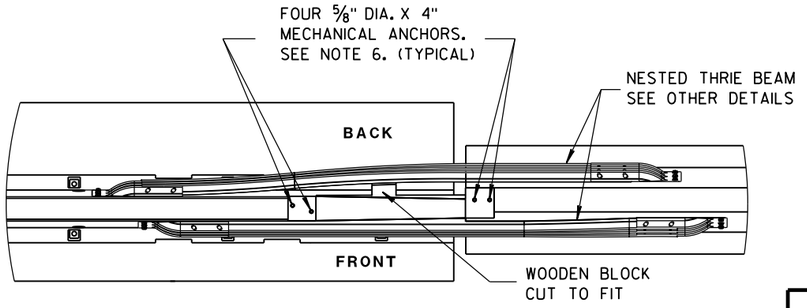
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



BACK VIEW



FRONT VIEW



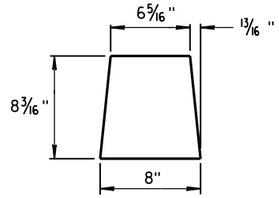
PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

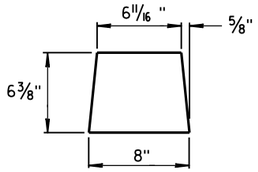
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

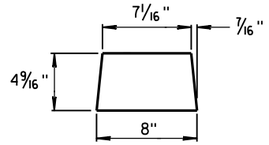
6
S.D.D. 14 B 7-14e



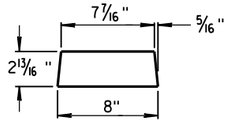
GUSSET 1



GUSSET 2

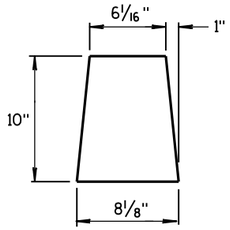


GUSSET 3

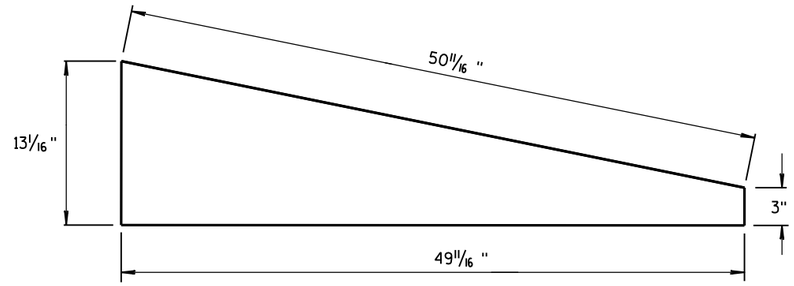


GUSSET 4

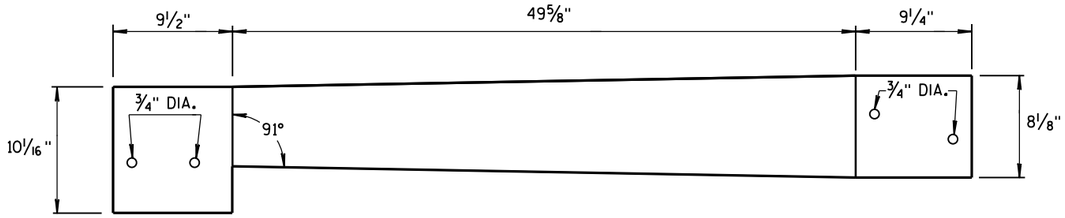
GUSSETS

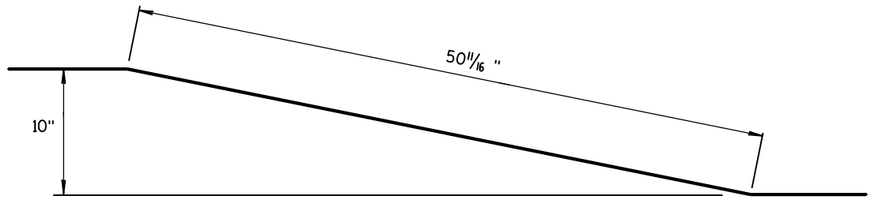


END PLATE



SIDE PLATE

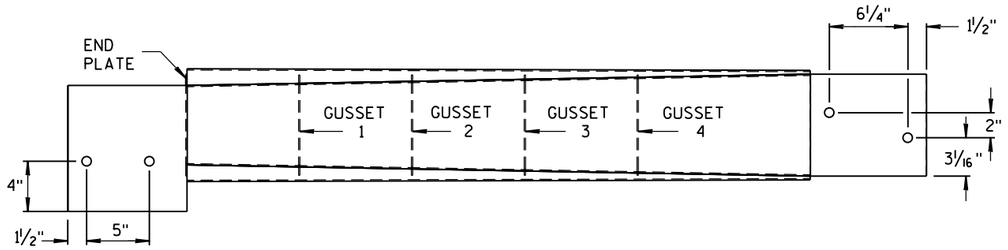


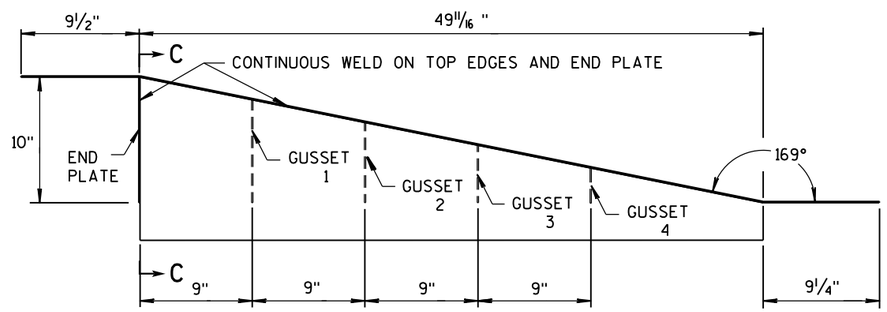


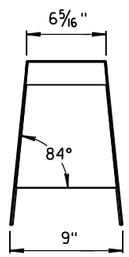
TOP PLATE

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.







SECTION C-C

NOTES

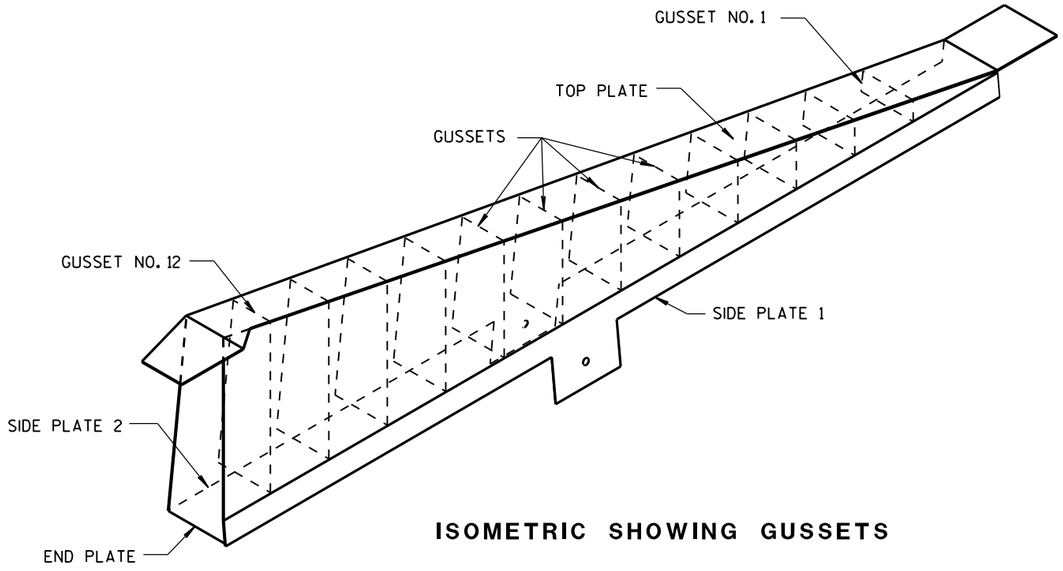
1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

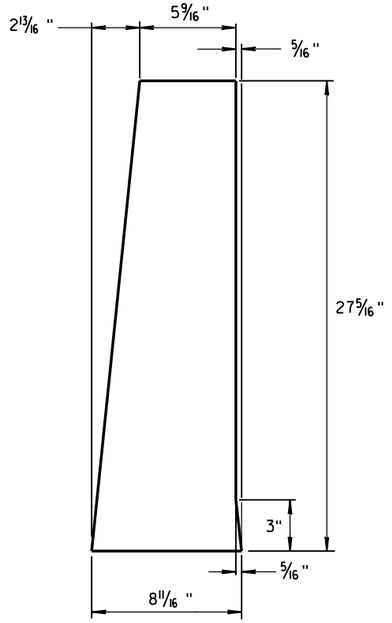
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-14f

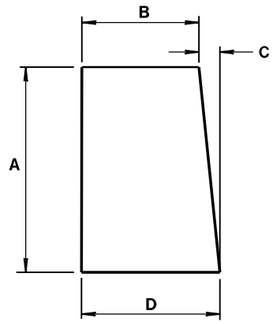


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



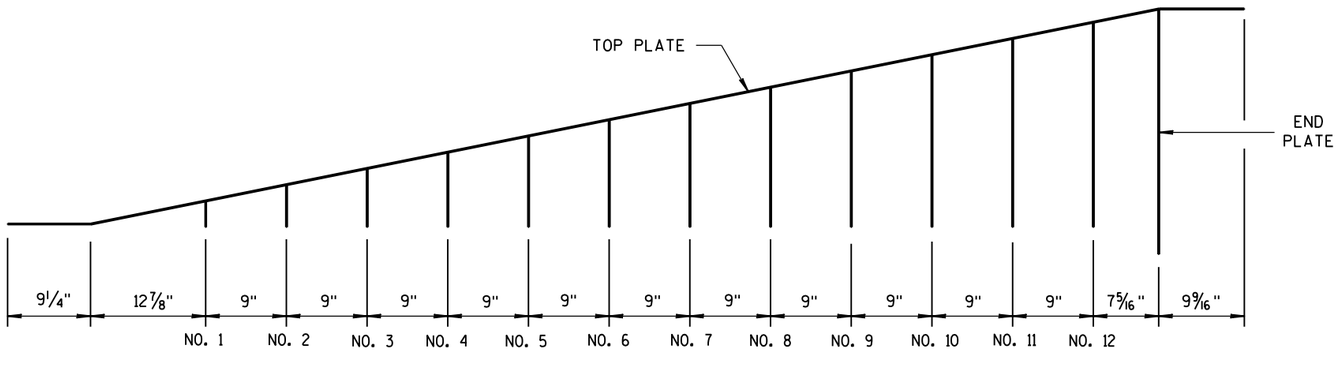
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

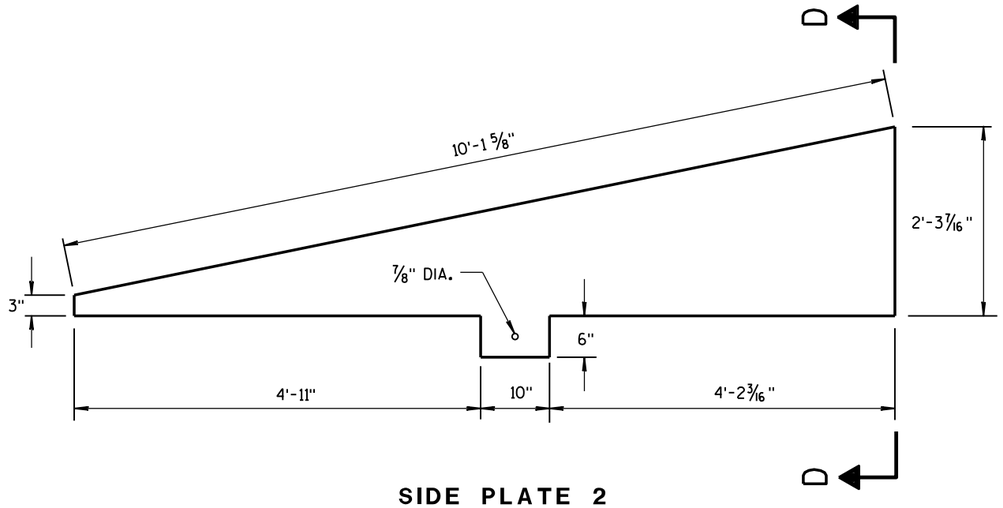
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

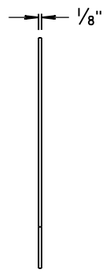
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

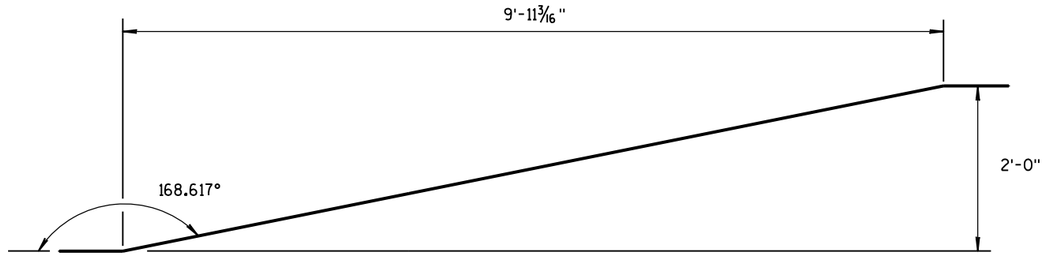
S.D.D. 14 B 7-14g



SIDE PLATE 2

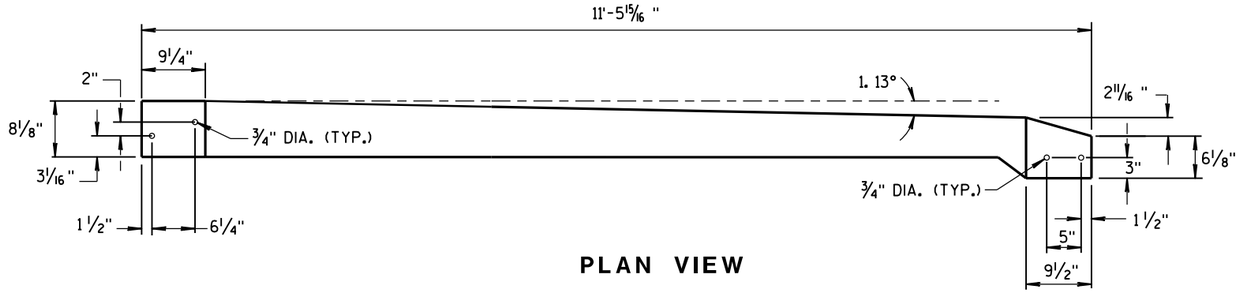


END VIEW



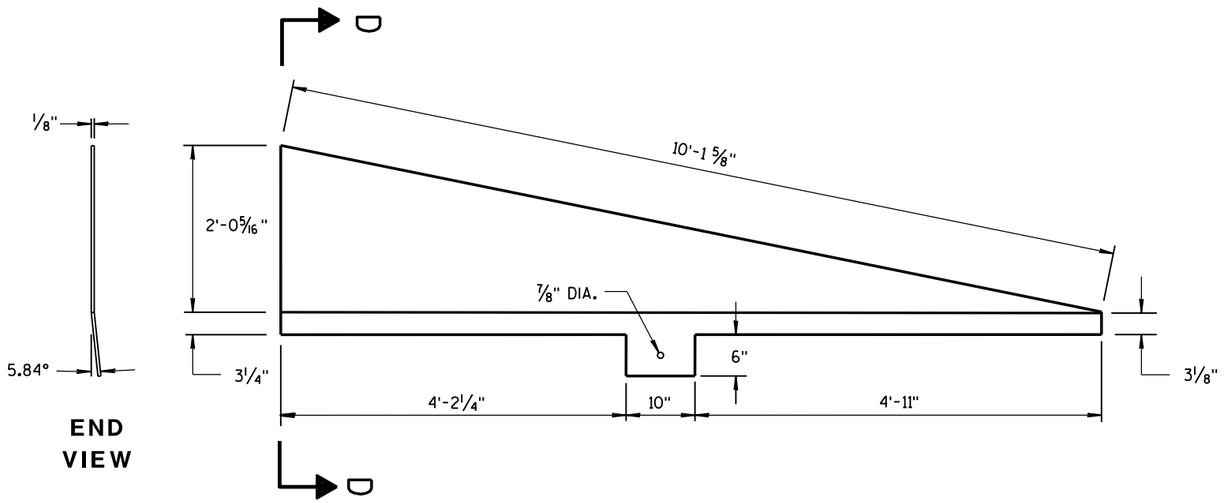
SIDE VIEW

TOP PLATE



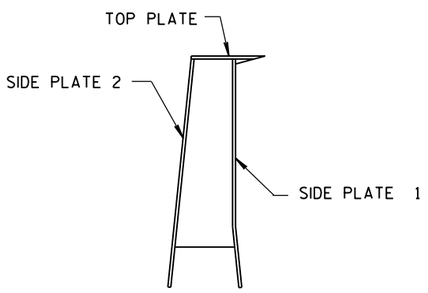
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

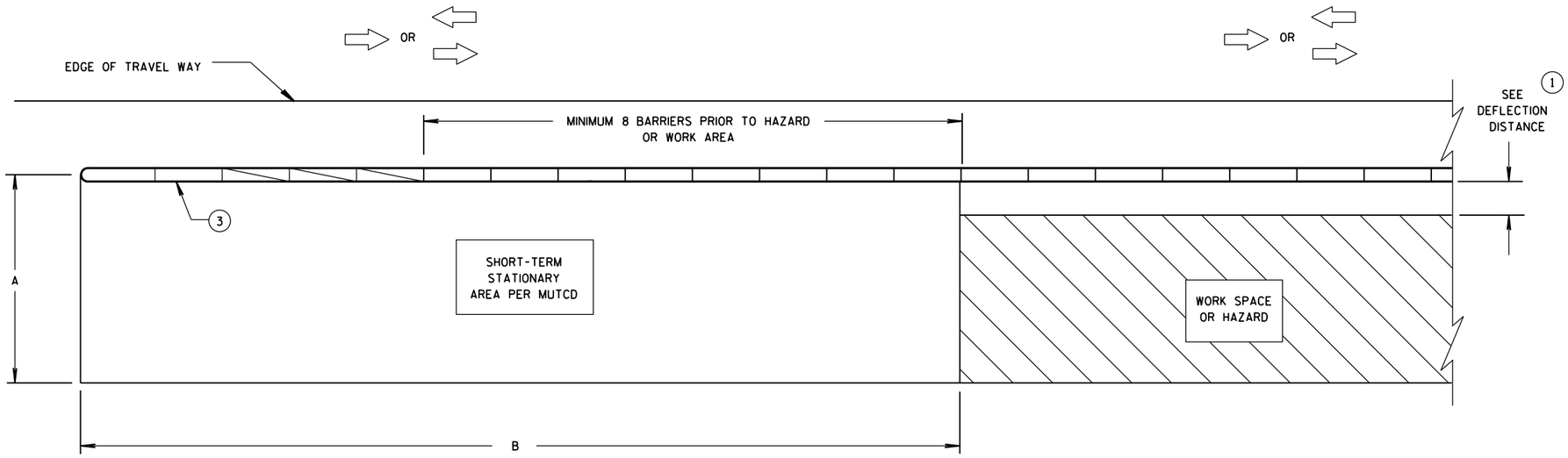
APPROVED
June 2014 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARD DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 14 B 7-14h

6

S.D.D. 14 B 7-14h



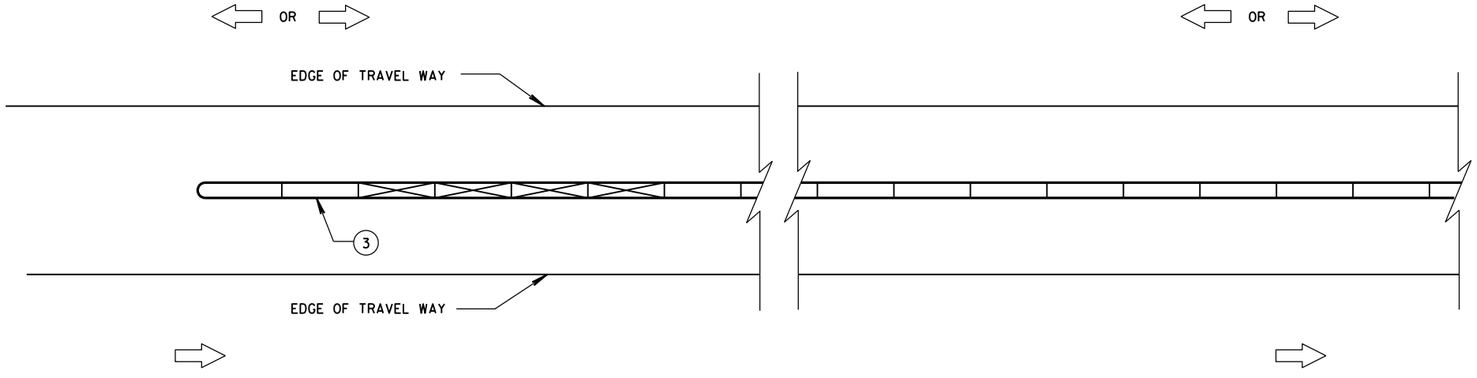
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

DIMENSION A TABLE (2)

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

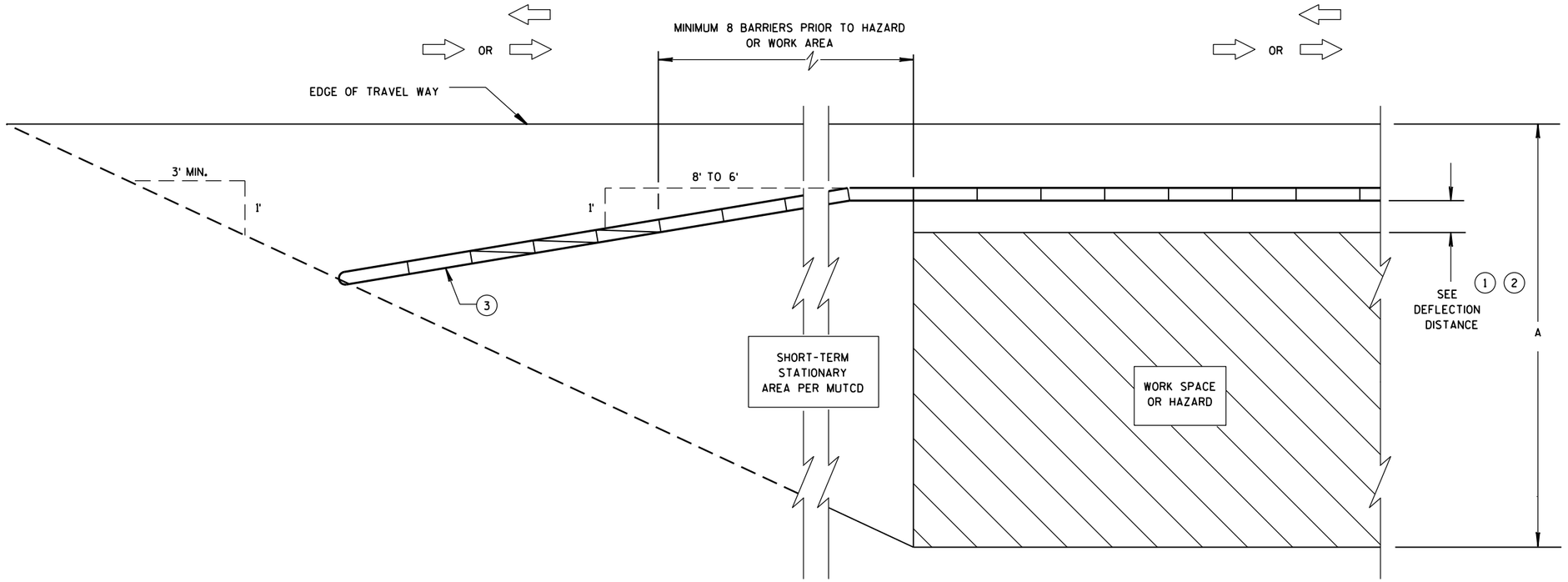
(3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

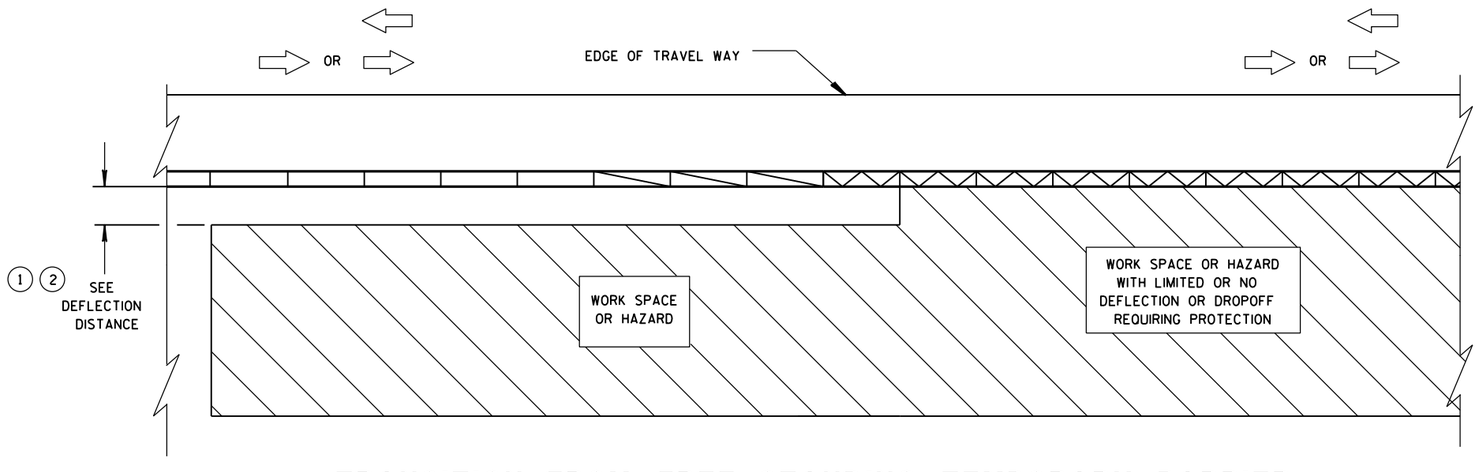
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 8-2a
S.D.D. 14 B 8-2a



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

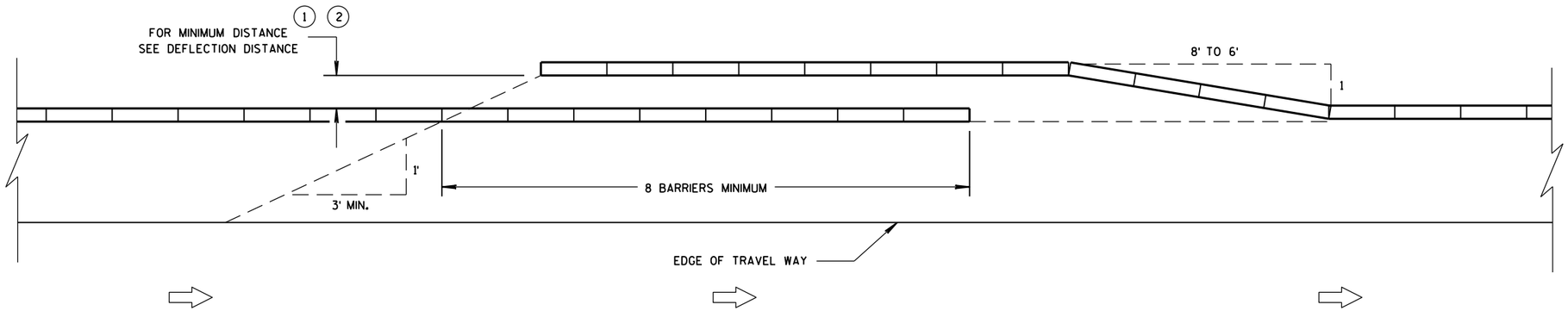
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

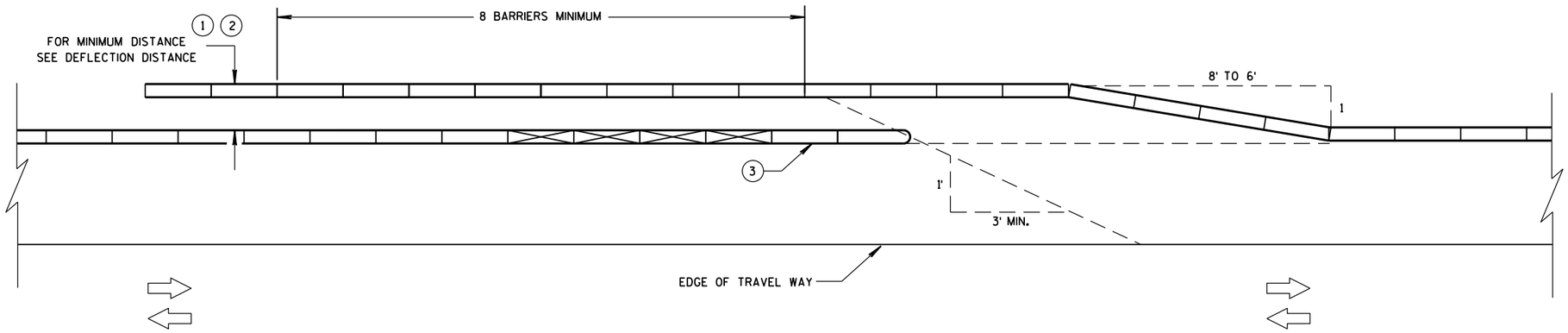
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

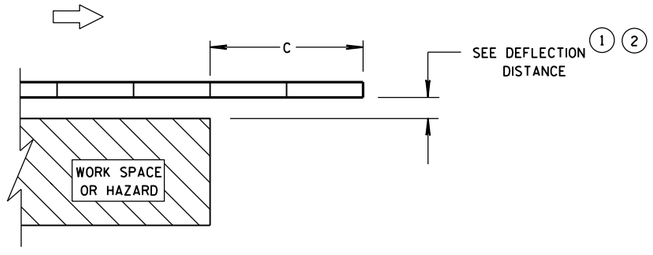
S.D.D. 14 B 8-2b



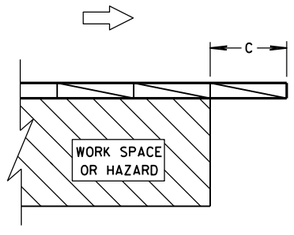
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

LEGEND

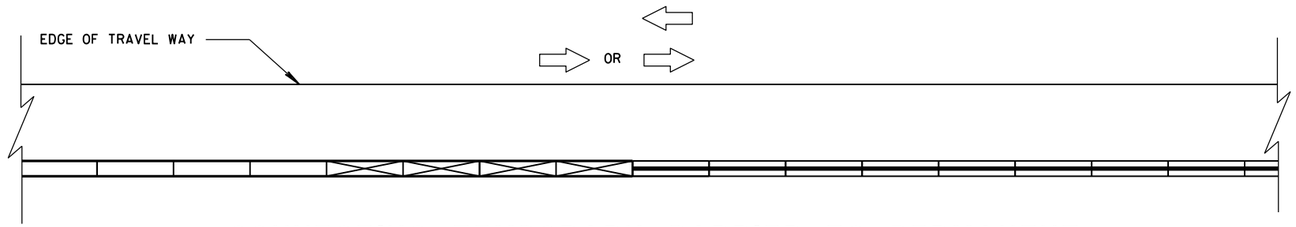
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

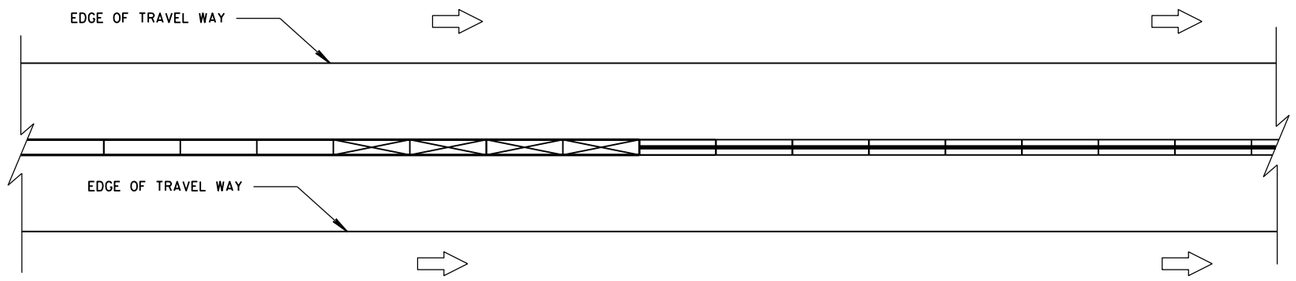
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 8-2c



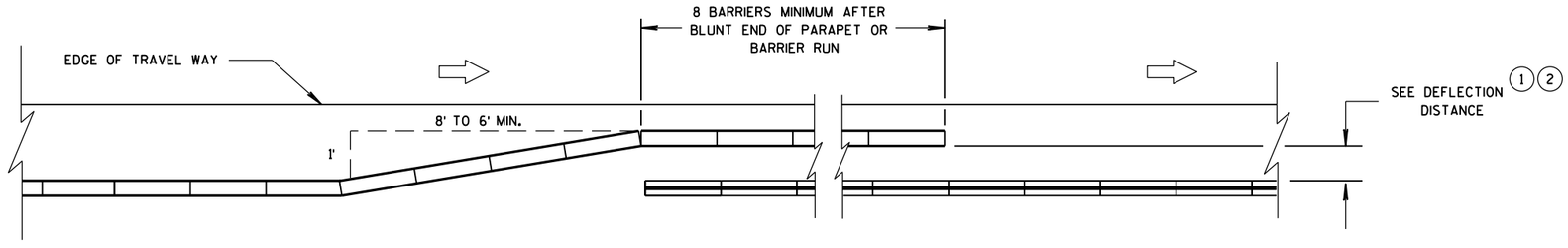
CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON ONE SIDE



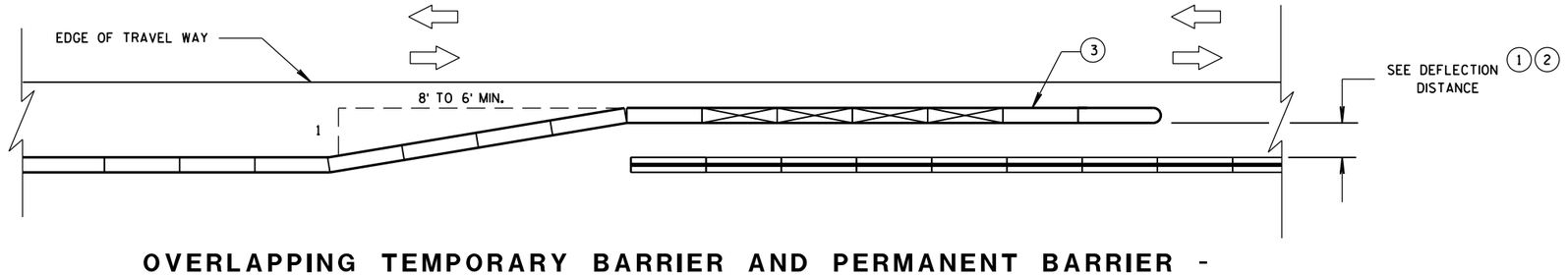
CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON BOTH SIDES

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
ONE WAY TRAFFIC



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
TWO WAY TRAFFIC

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 8-2d

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

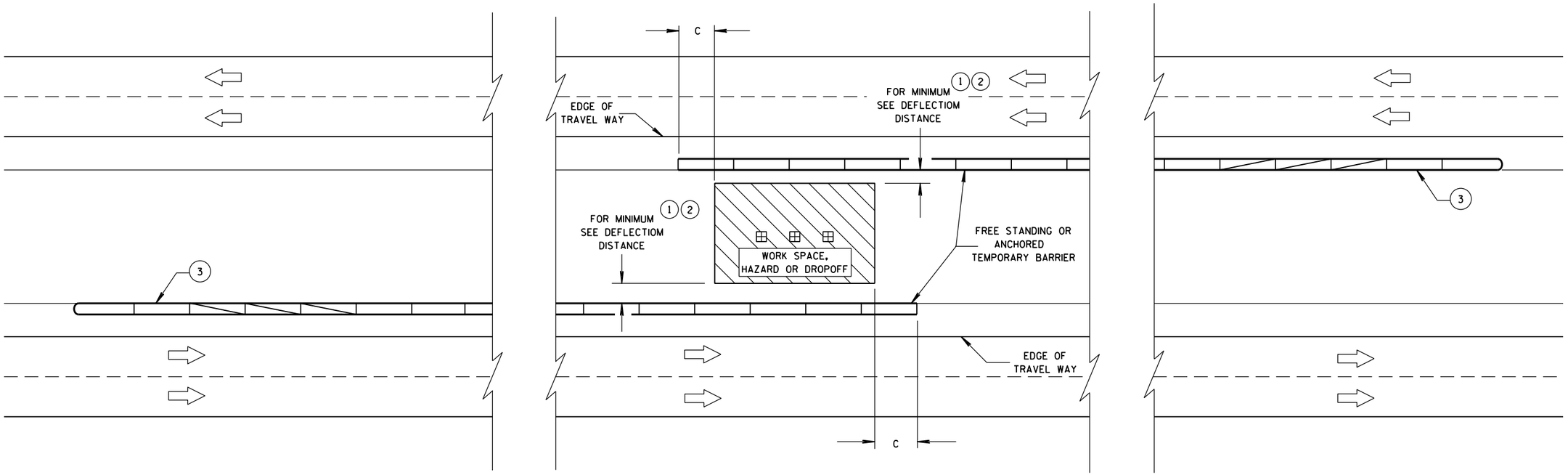
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

DIMENSION C TABLE (2)

AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



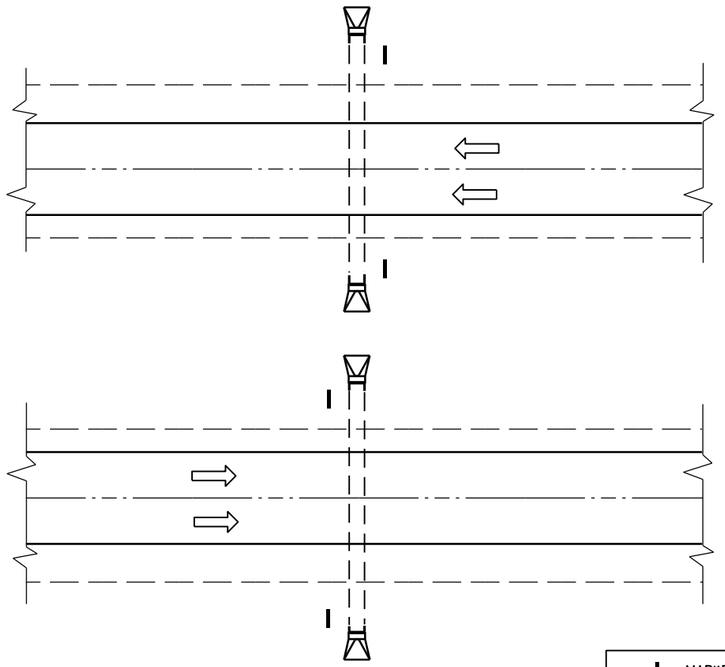
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINNER
FHWA

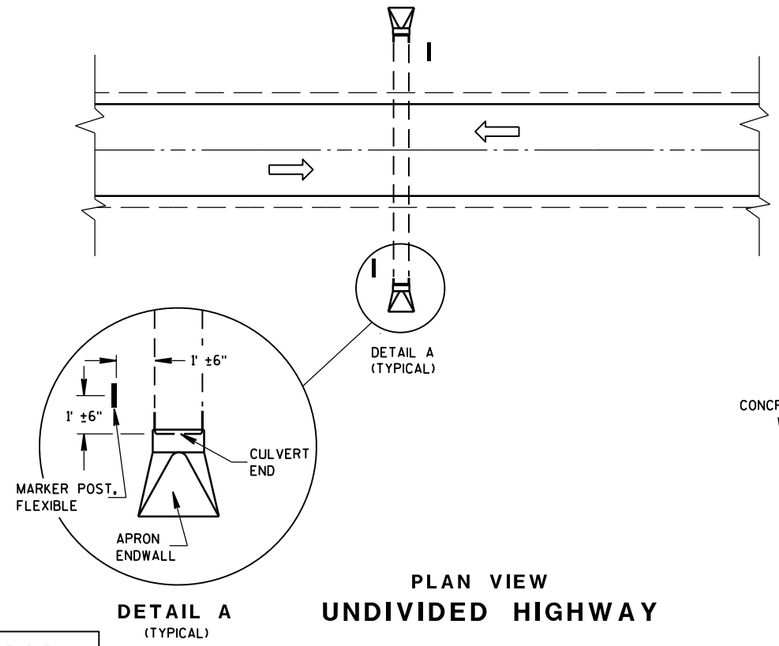
6

S.D.D. 14 B 8-2e



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

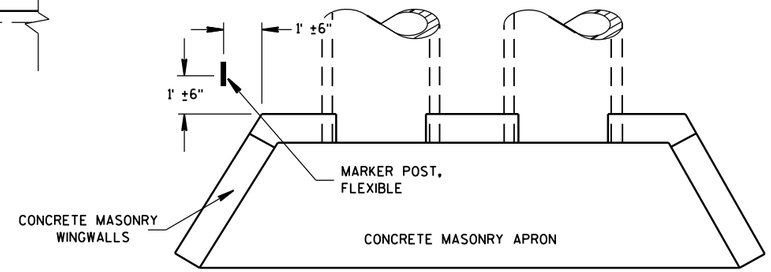
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

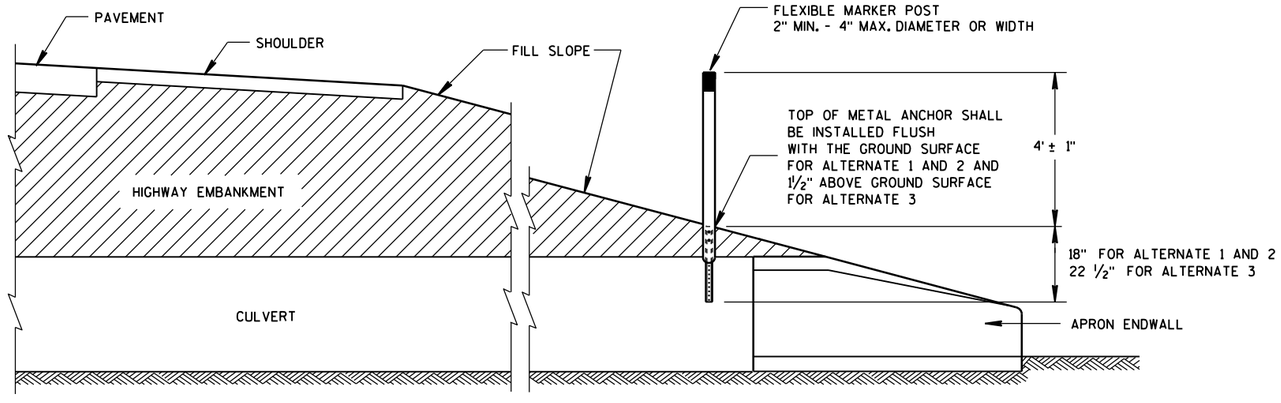
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

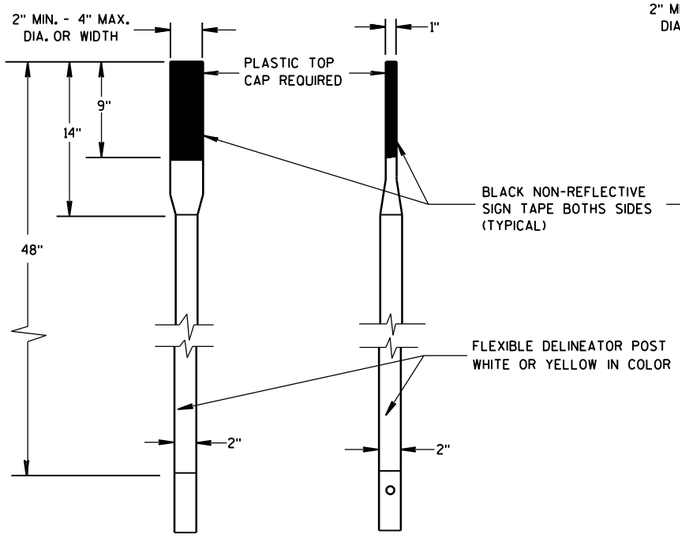
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

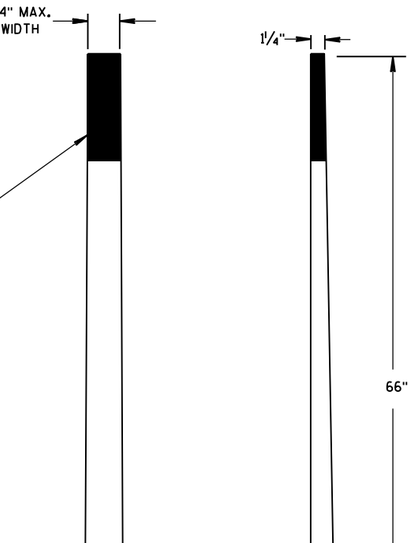
S.D.D. 15 A 3-2a

6

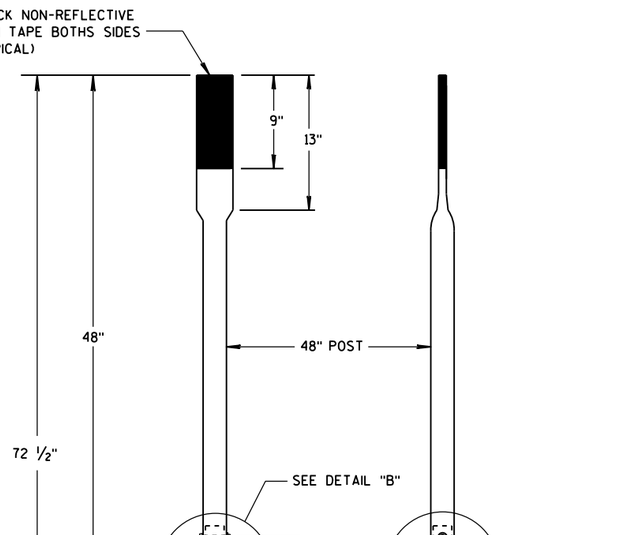
S.D.D. 15 A 3-2a



ALTERNATE 1

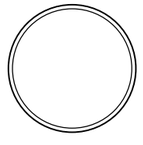


ALTERNATE 2

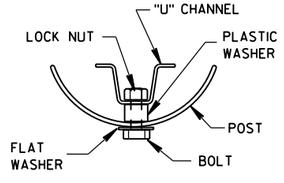


ALTERNATE 3

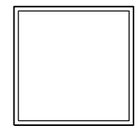
FLEXIBLE MARKER POSTS



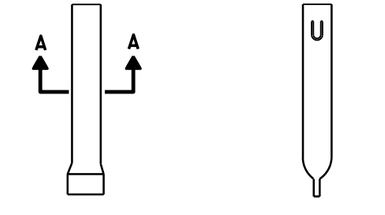
SECTION A-A



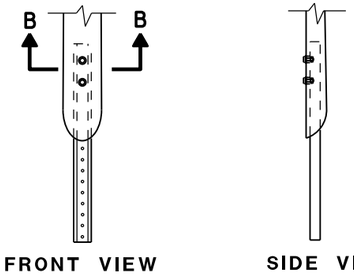
SECTION B-B



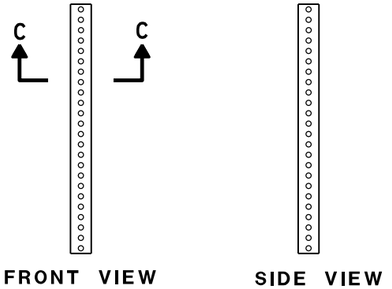
SECTION C-C



ALTERNATE 1

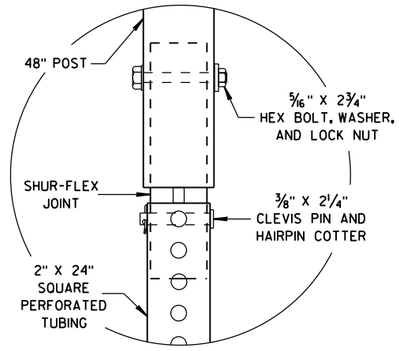


ALTERNATE 2

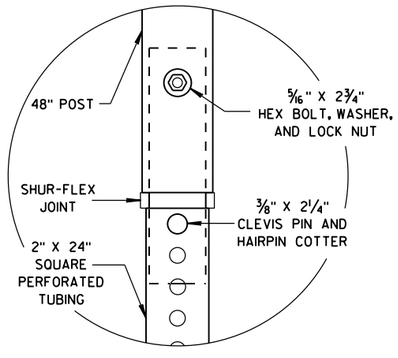


ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 A 3-2b

6

S.D.D. 15 A 3-2b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

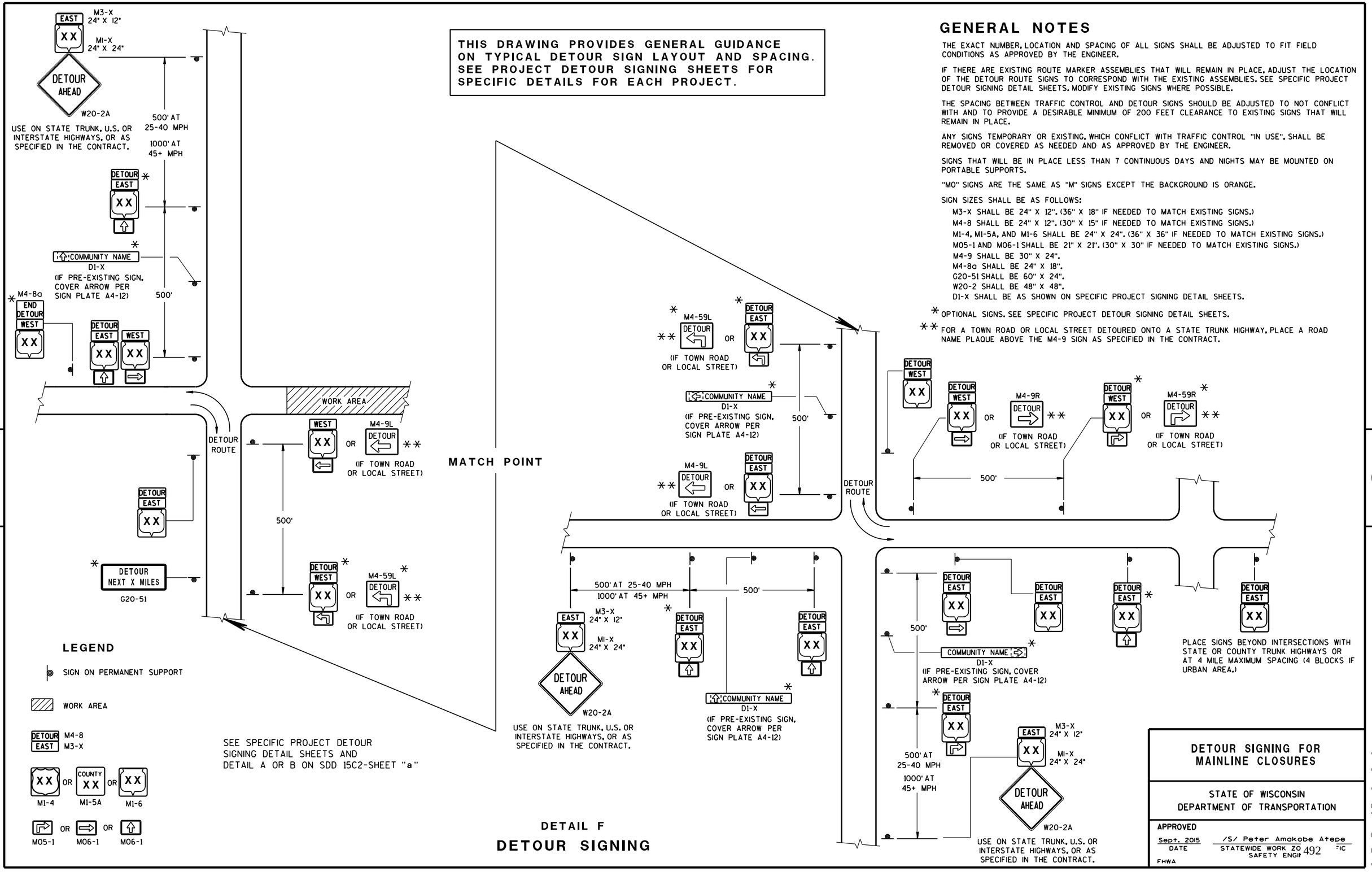
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

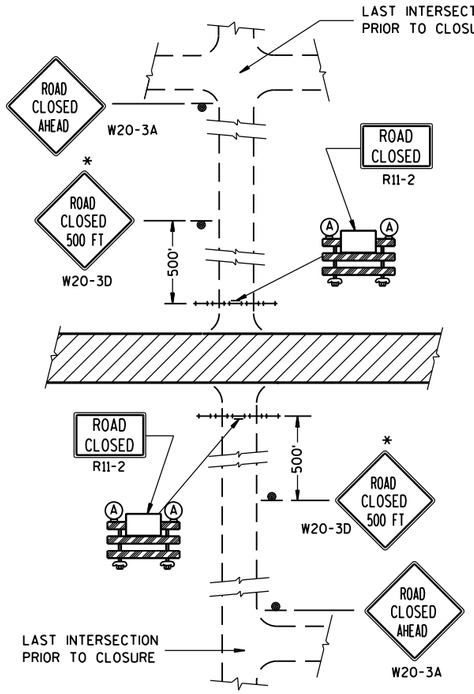
Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO... SAFETY ENGI... FIC

FHWA

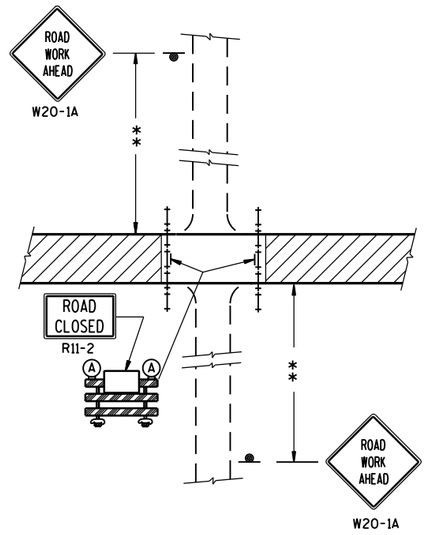
6

S.D.D. 15 C 2-6c



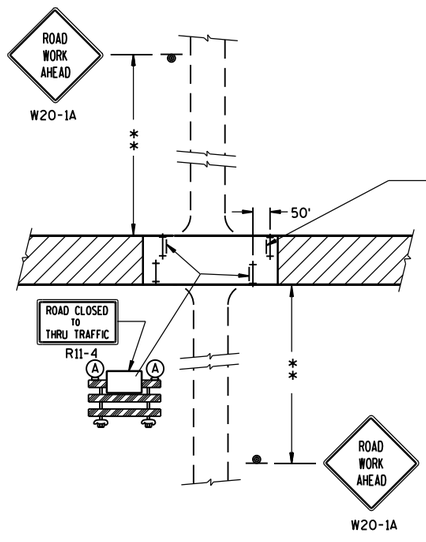
DETAIL 1

(NO ACCESS TO PROJECT)



DETAIL 2

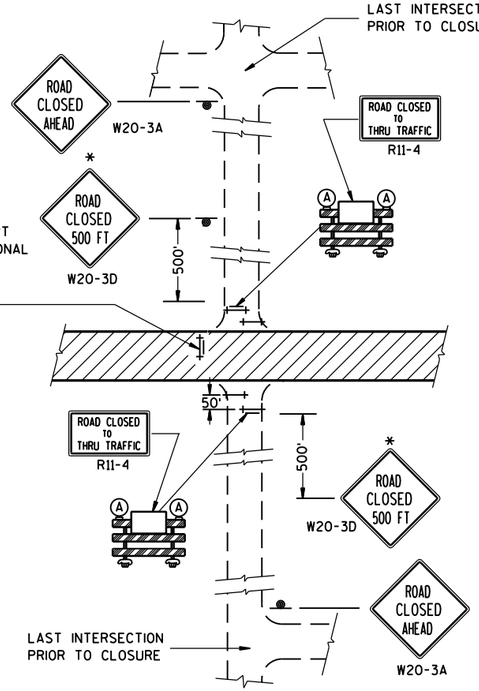
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).





DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible]FIC SAFETY ENGI[illegible]
FHWA

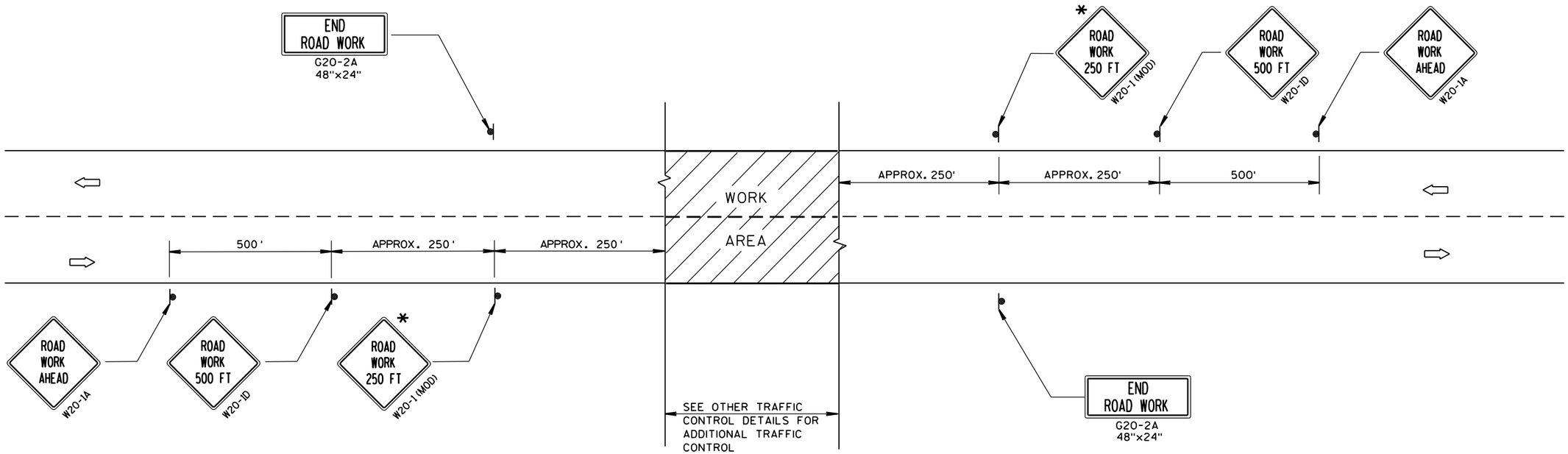
6

S.D.D. 15 C 3-3

6

S.D.D. 15 C 3-3

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

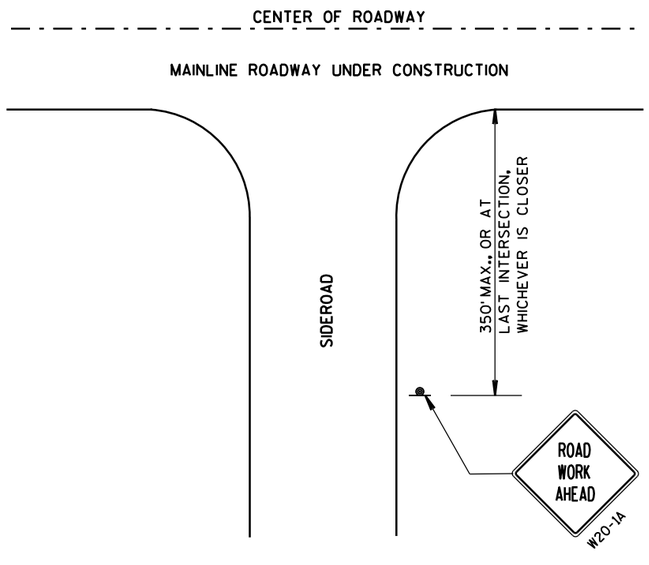
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

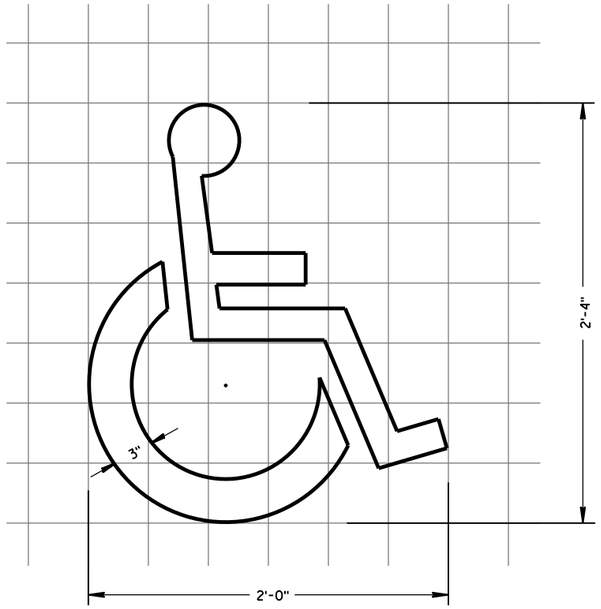
APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

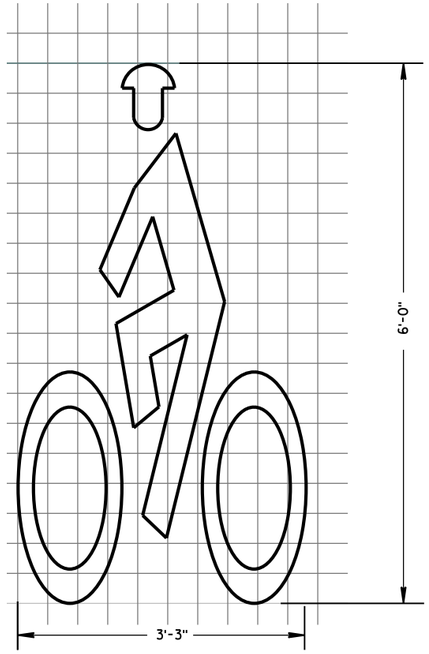
6

S.D.D. 15 C 5-3

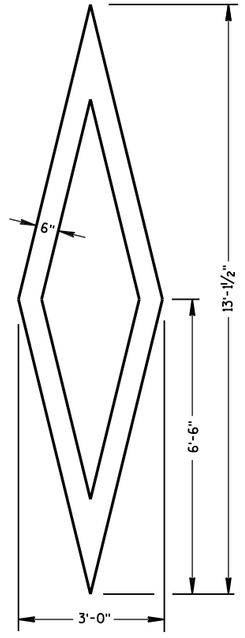
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.





BIKE CROSSING SYMBOL



PREFERENTIAL LANE SYMBOL

6

6

S.D.D. 15 C 7-13a

S.D.D. 15 C 7-13a

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

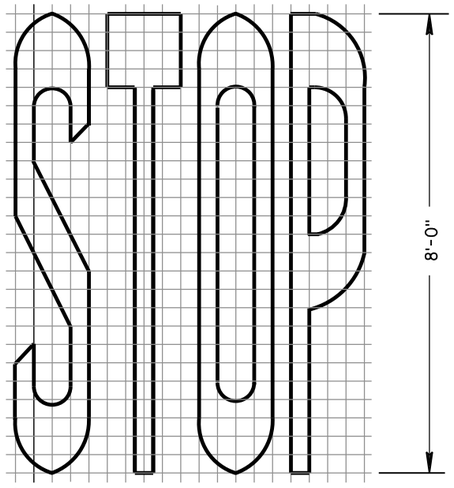
4/18/16	/S/ Matthew R. Rauch
DATE	STATE SIGNING AND MARK

FHWA

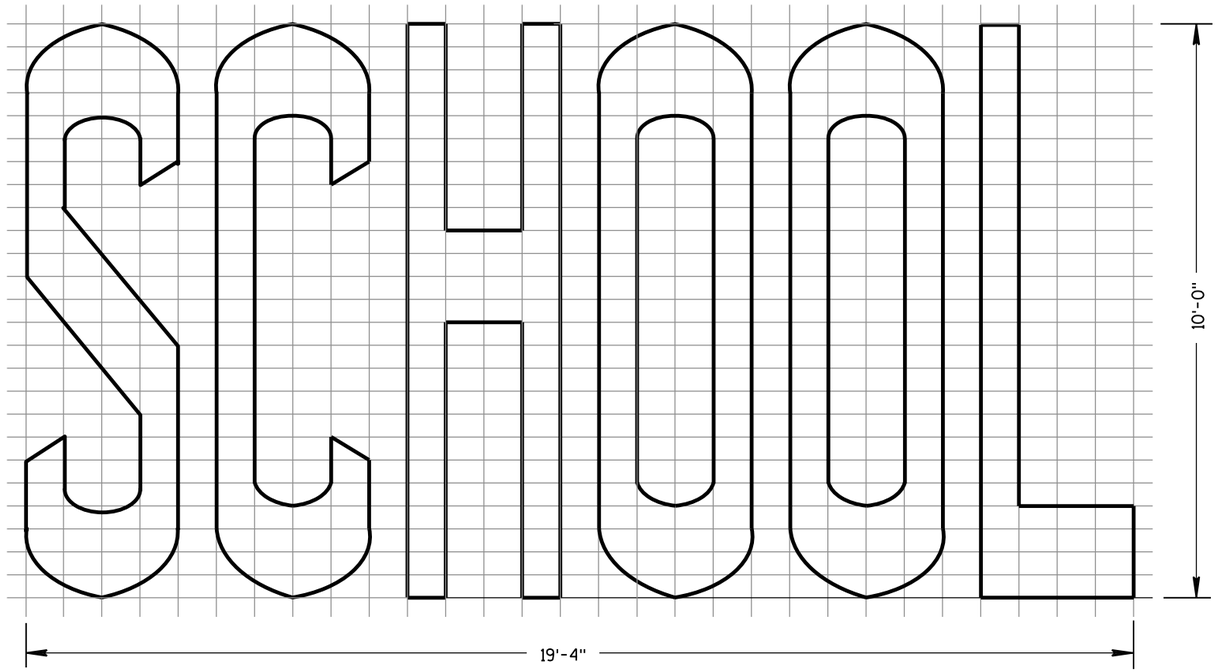
EER

GENERAL NOTES

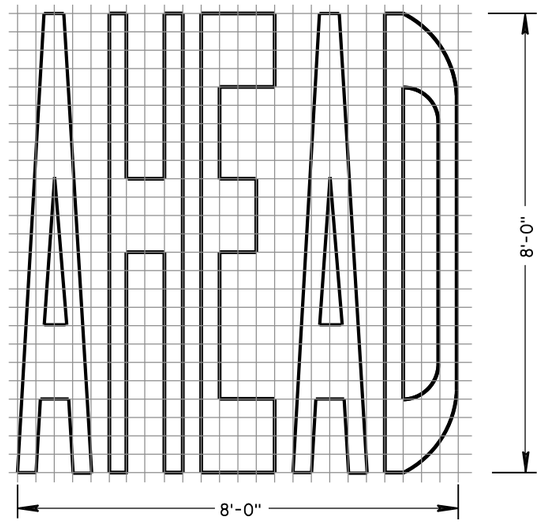
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

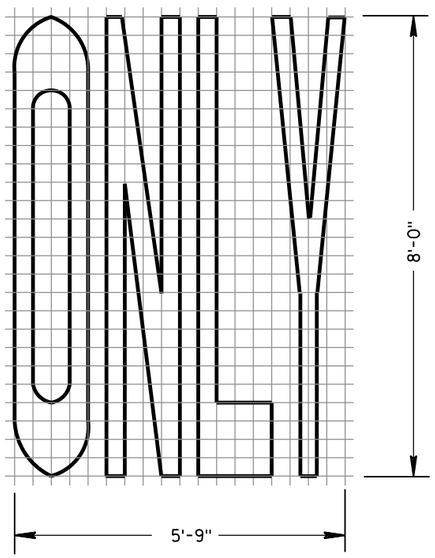


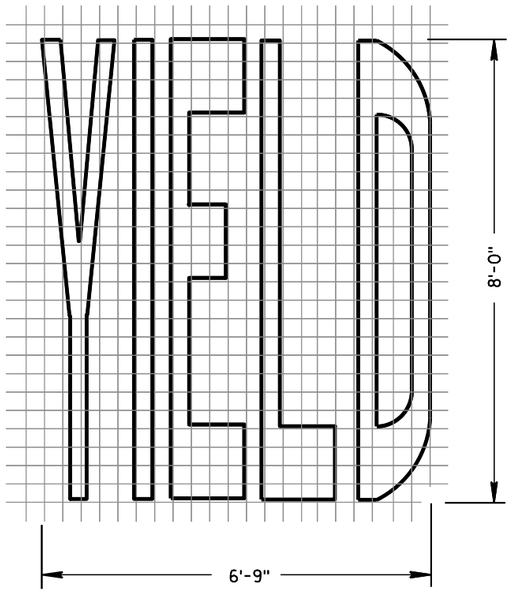


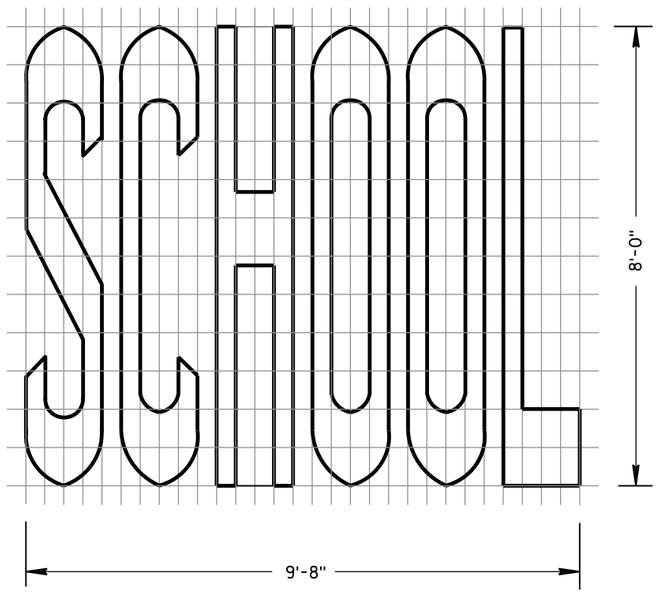


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-16	/S/ Matthew R. Rauch	
DATE	STATE SIGNING AND MARK	EER

FHWA

6

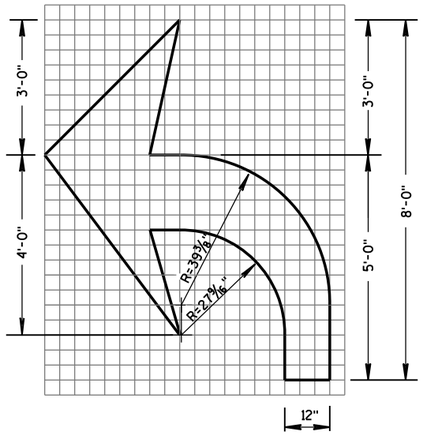
S.D.D. 15 C 7-13b

6

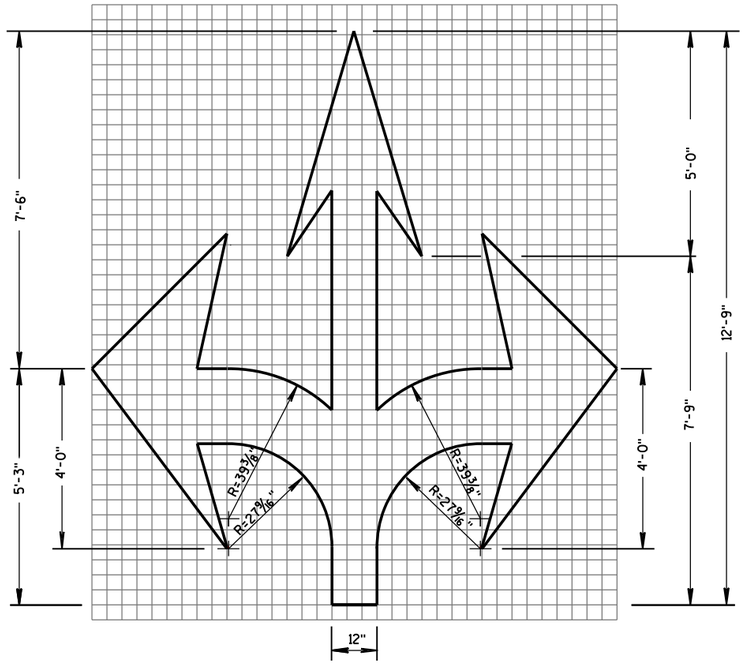
S.D.D. 15 C 7-13b

GENERAL NOTES

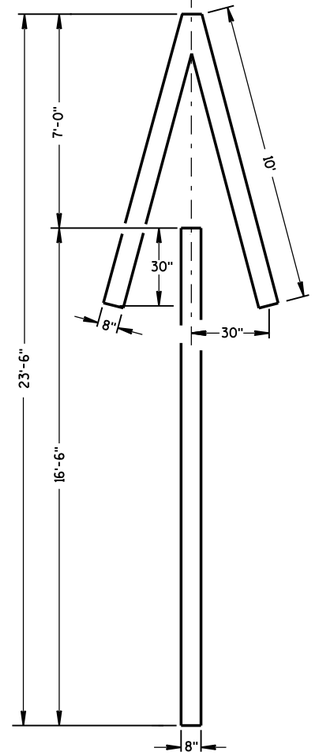
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



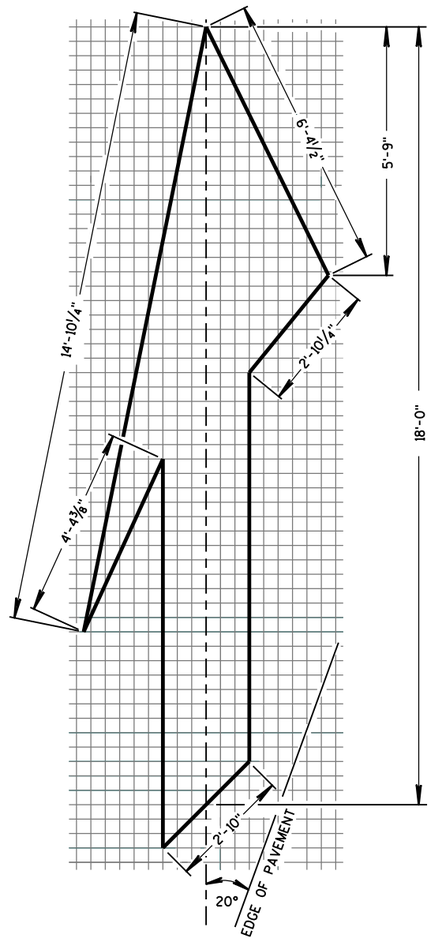
TYPE 2



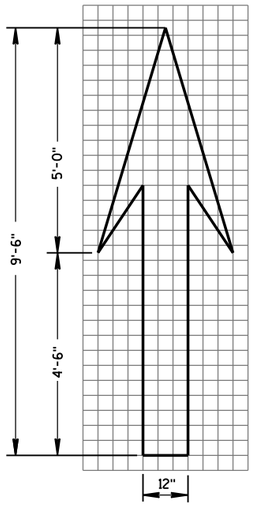
TYPE 6



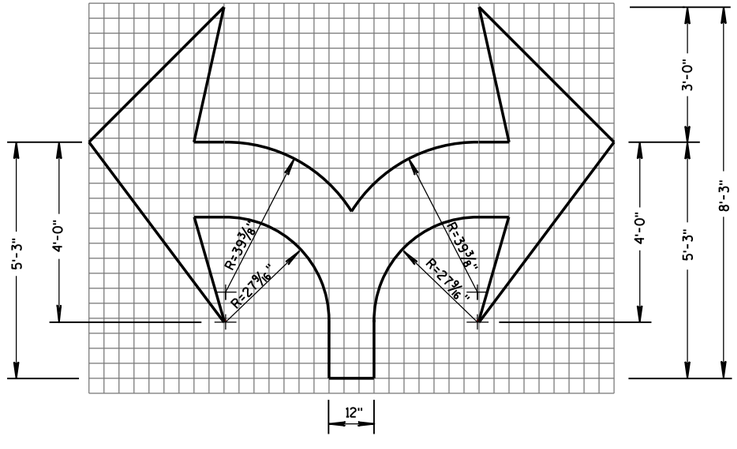
TYPE 4



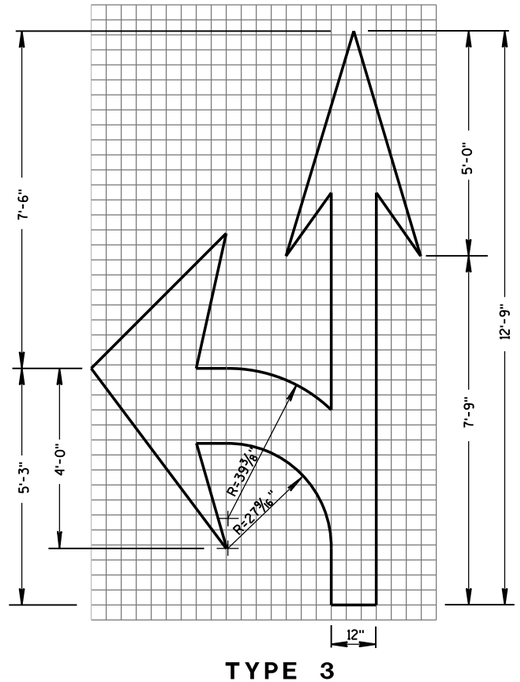
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

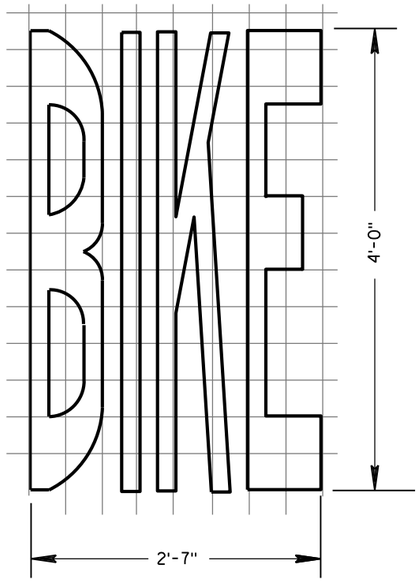
APPROVED
4-18-16
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR 497 NEER
FHWA

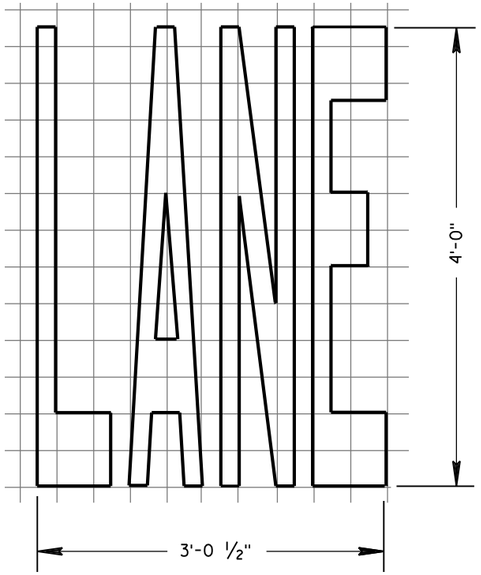
6

S.D.D. 15 C 7-13c

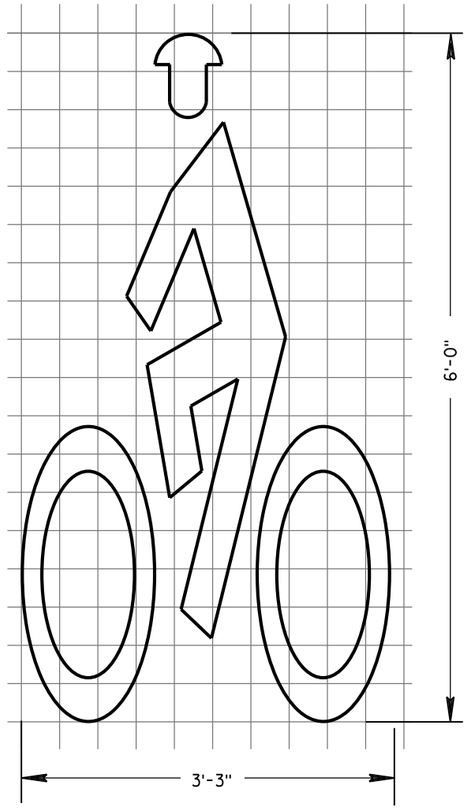
6

S.D.D. 15 C 7-13c

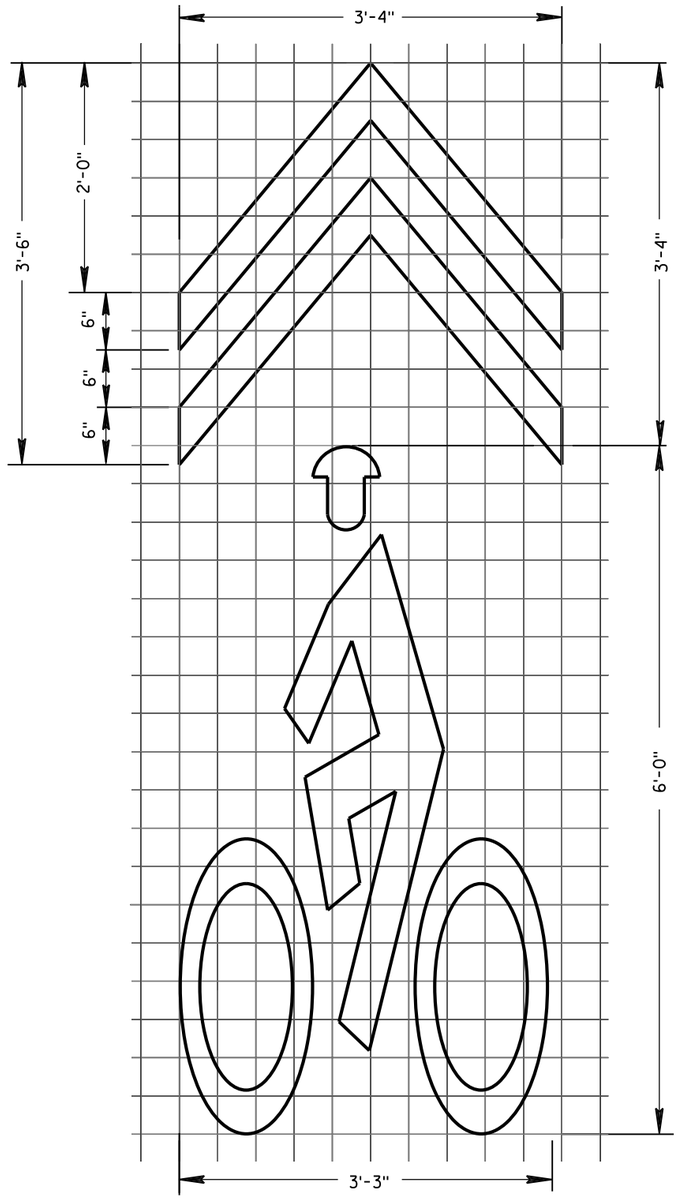




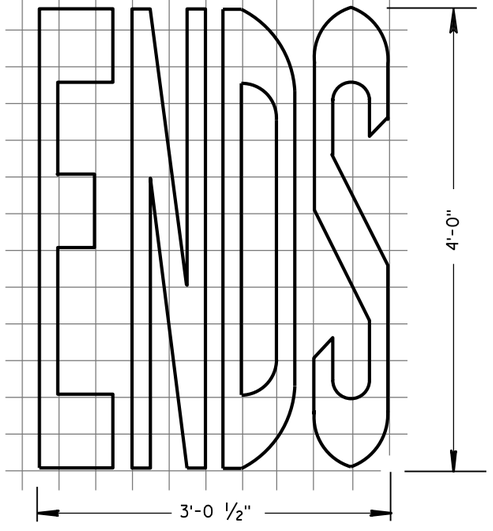
BIKE LANE WORDS



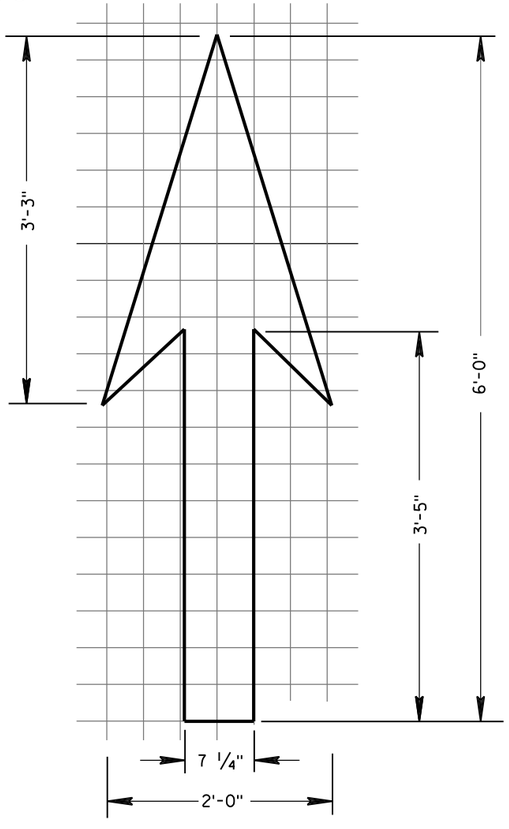
BIKE LANE SYMBOL



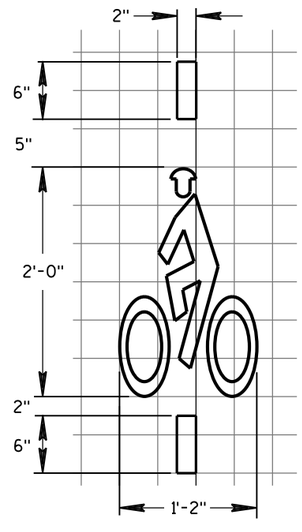
BIKE SYMBOL FOR SHARED LANE



BIKE LANE WORDS



BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARK ENGINEER

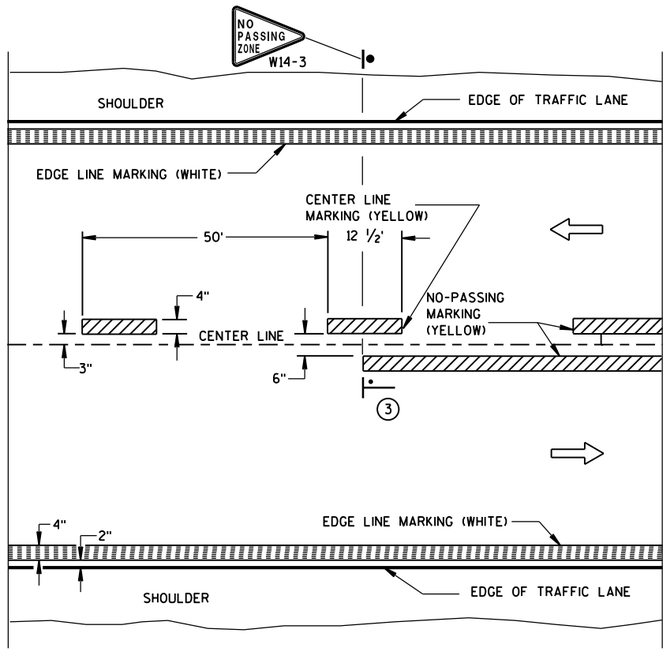
FHWA

6

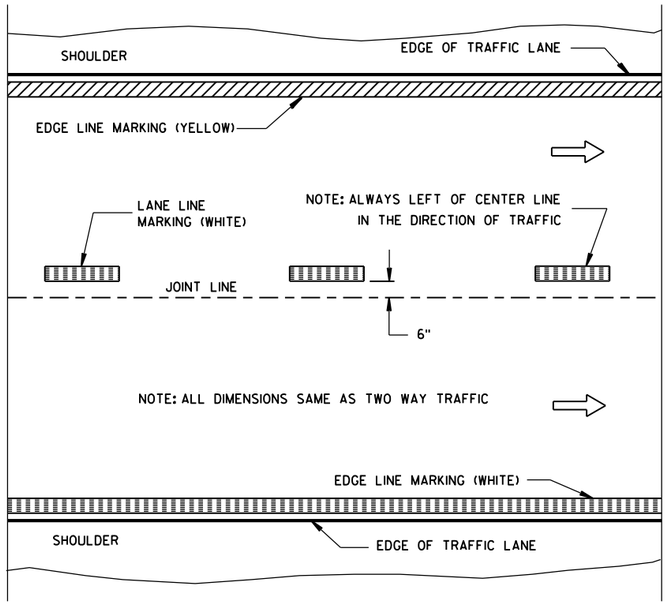
S.D.D. 15 C 7-13e

6

S.D.D. 15 C 7-13e

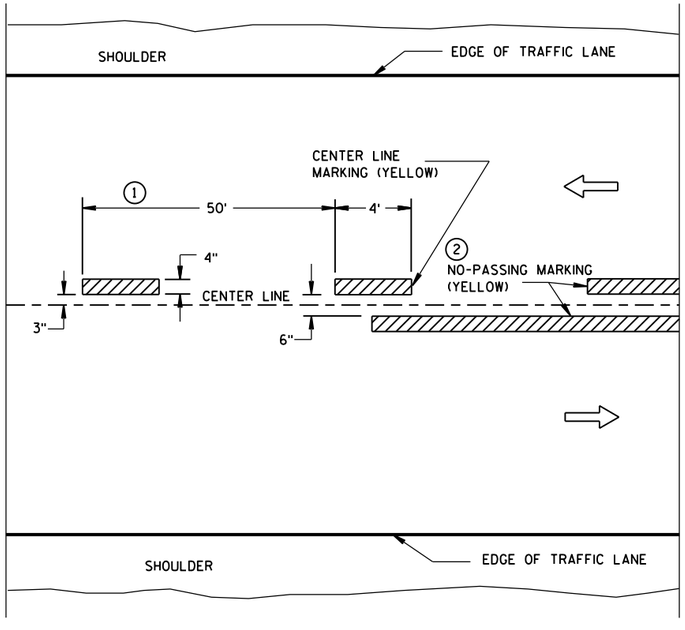


TWO WAY TRAFFIC

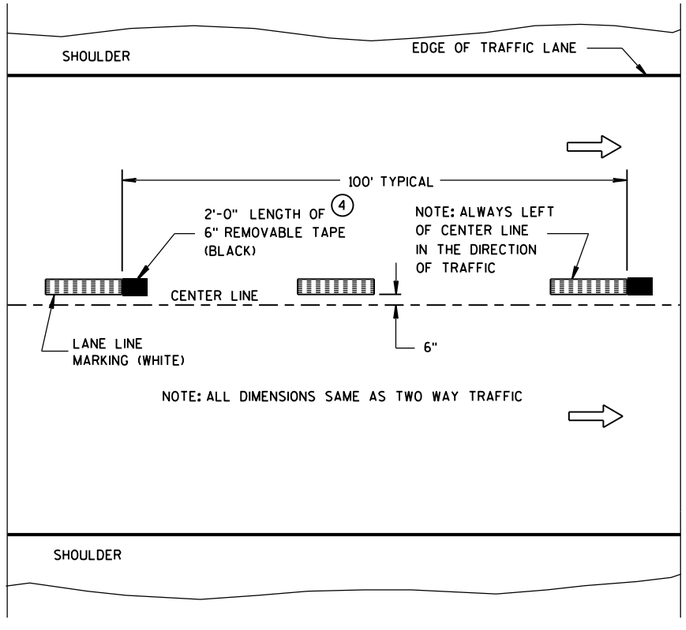


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

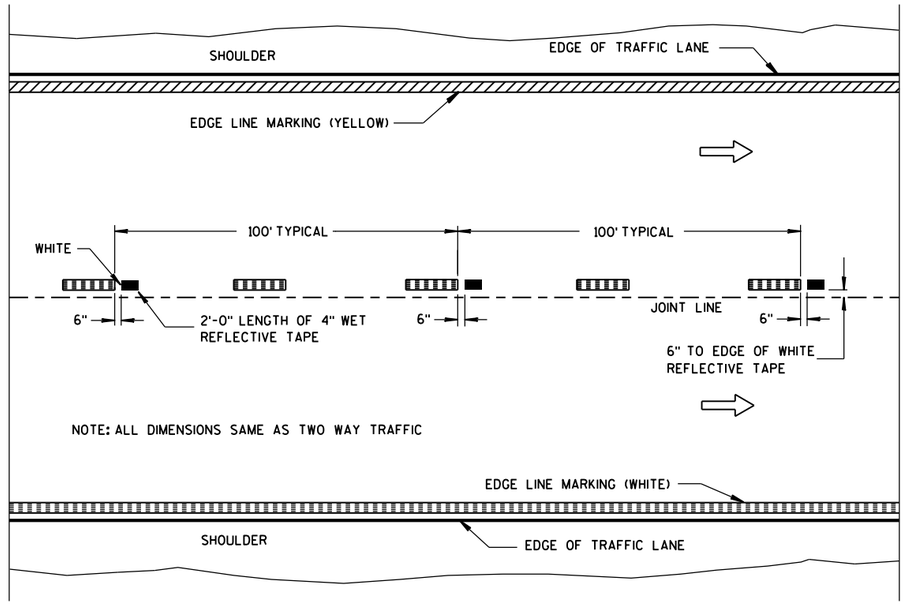
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

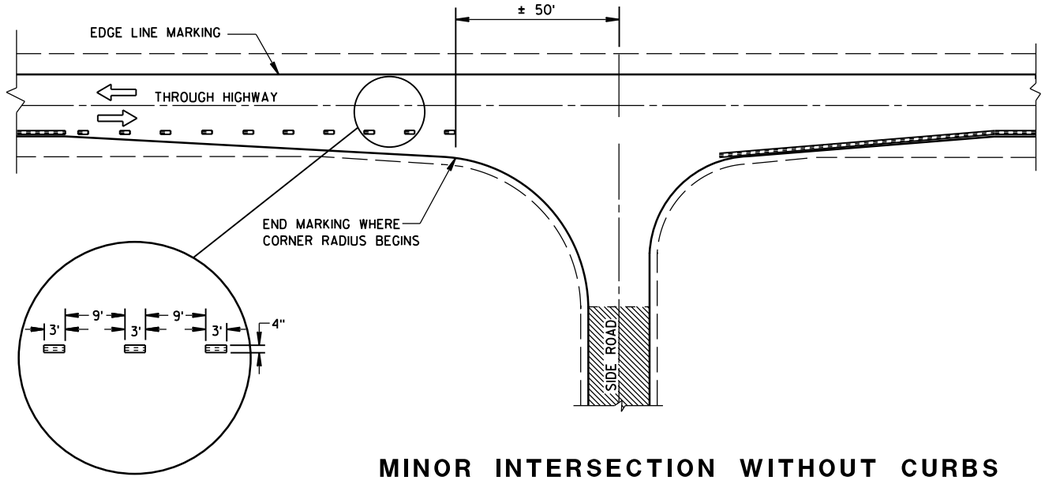
APPROVED
5-13-2013
DATE
/S/ Travis Feltes
STATE TRAFFIC E
FHWA

6

S.D.D. 15 C 8-16a

6

S.D.D. 15 C 8-16a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

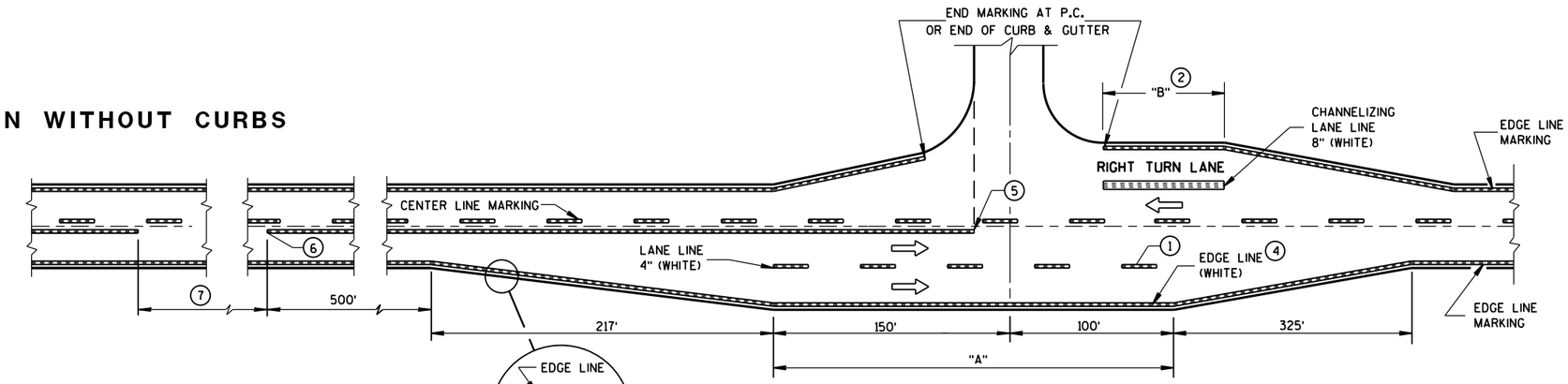
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

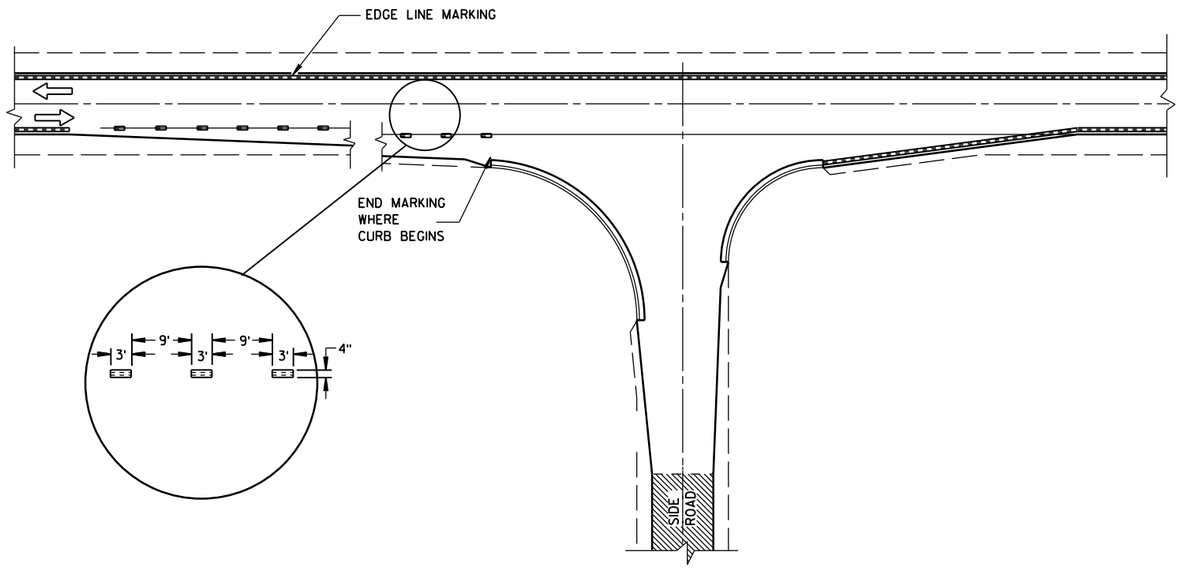
(7)

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



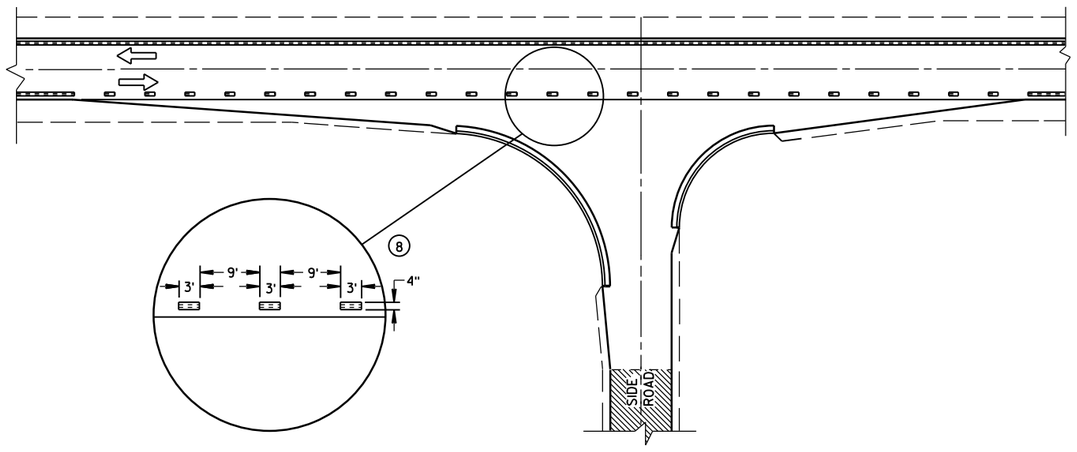
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

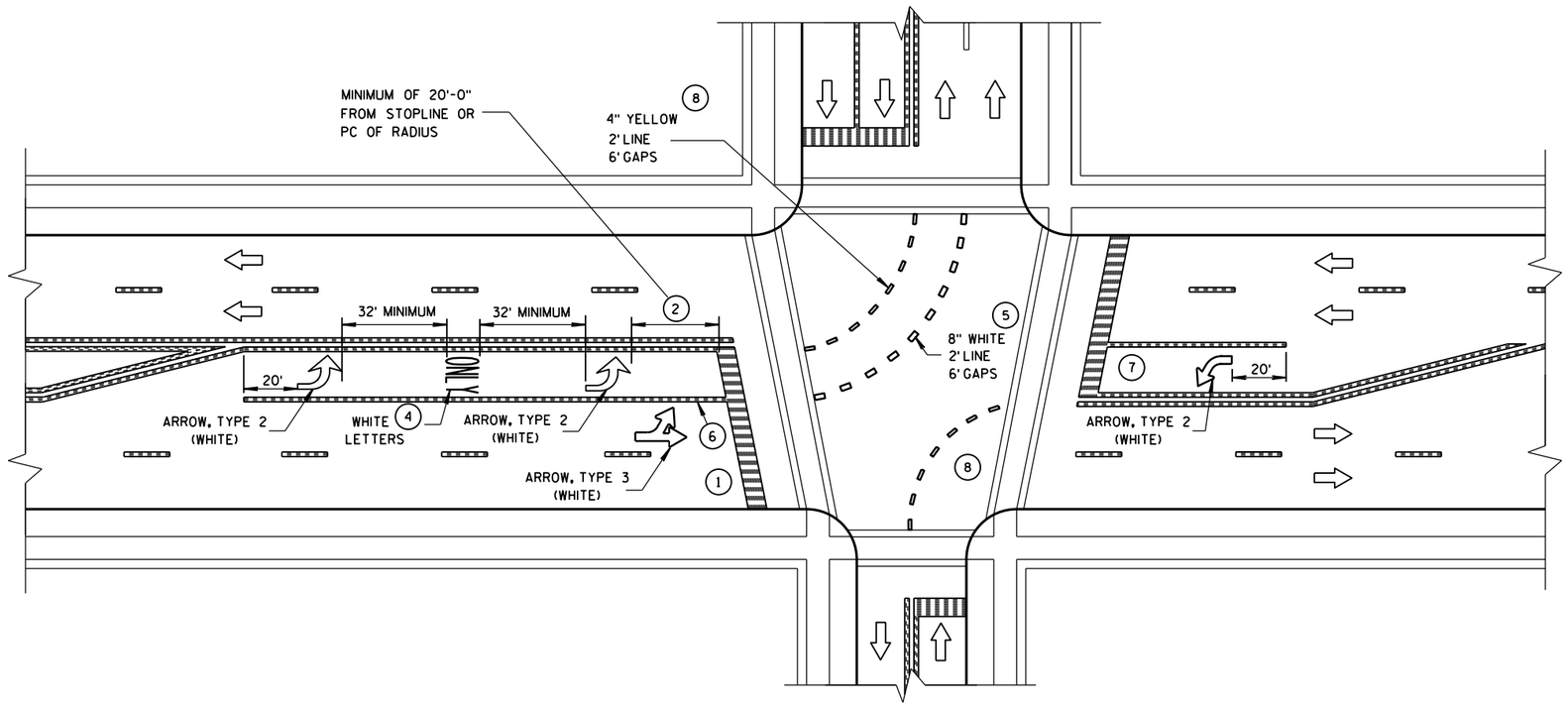
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 500

6

S.D.D. 15 C 8-16b

6

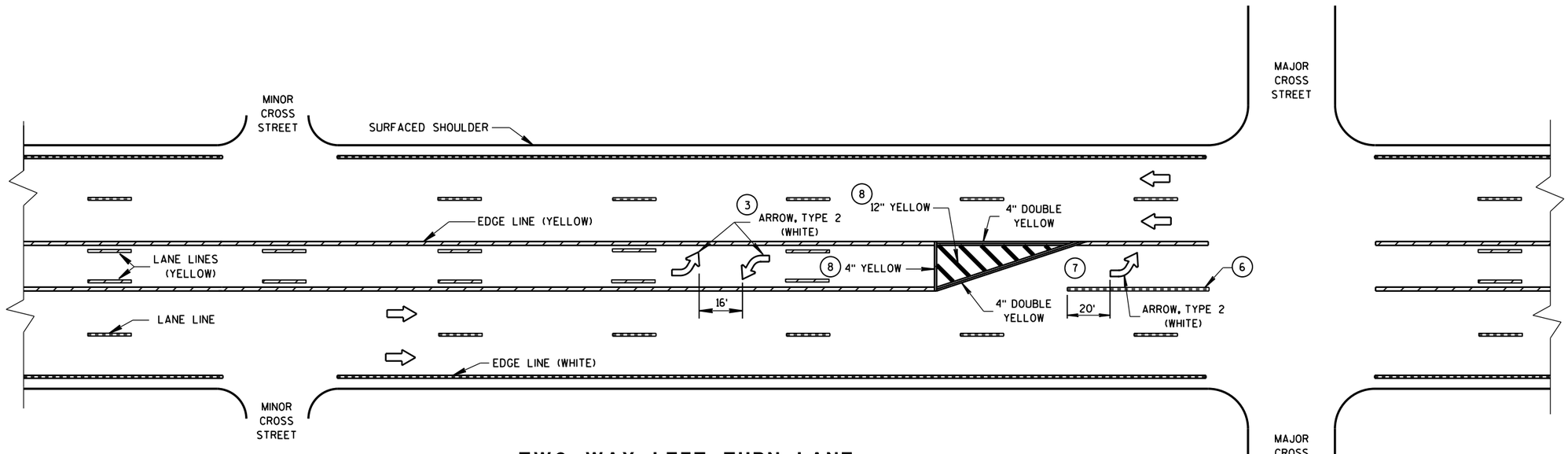
S.D.D. 15 C 8-16b



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



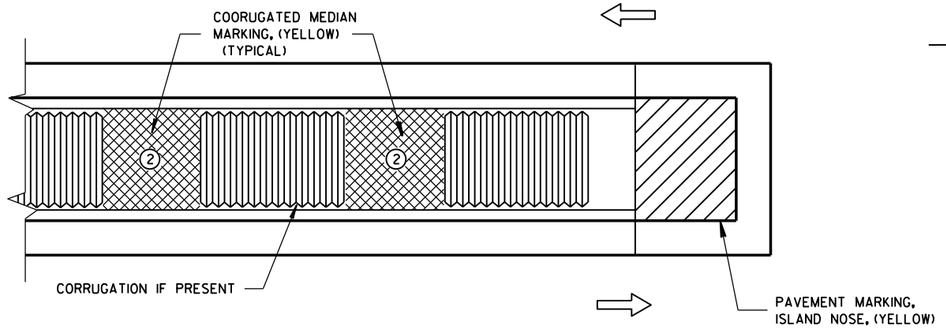
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

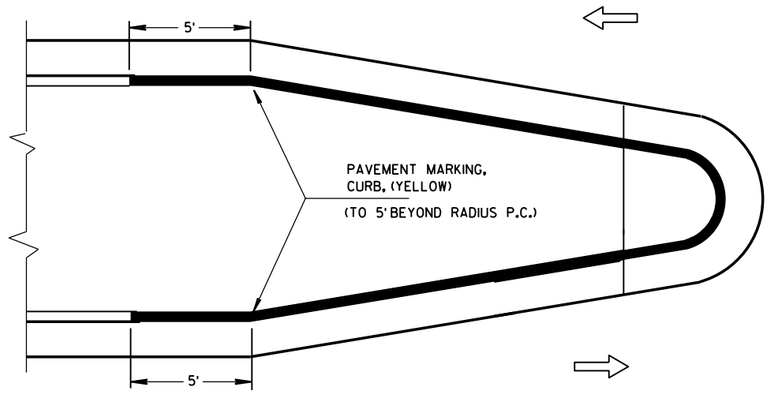
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

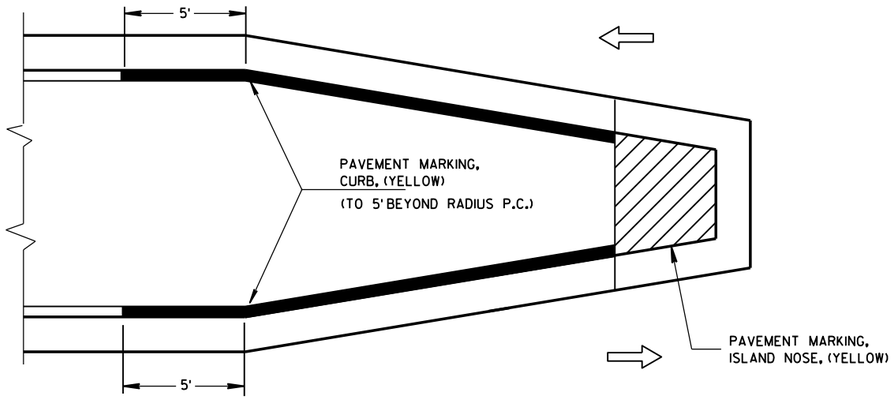
S.D.D. 15 C 8-16e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

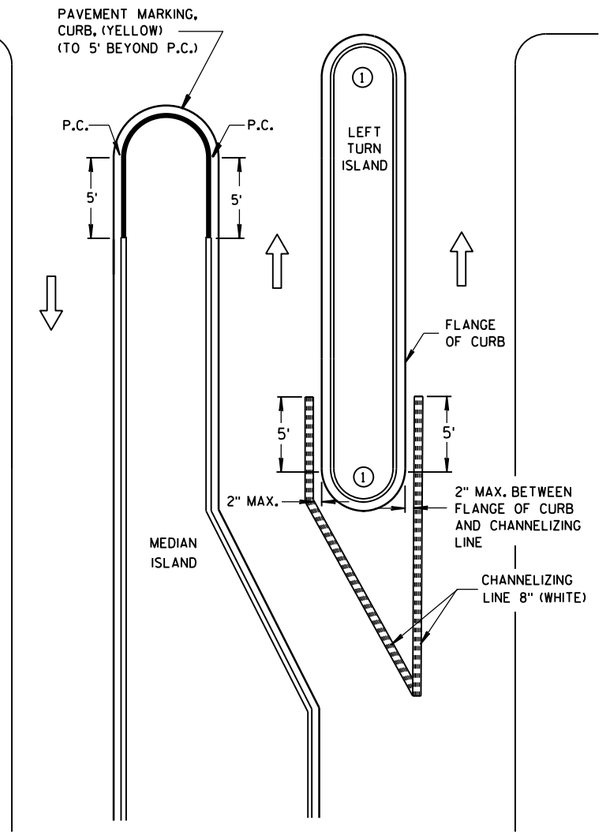


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

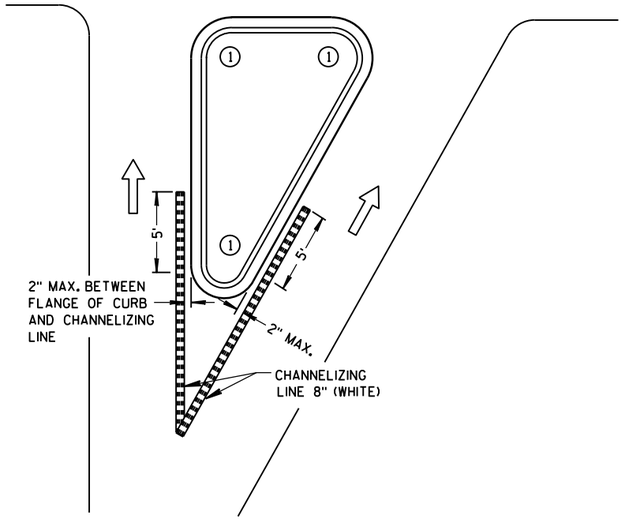


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

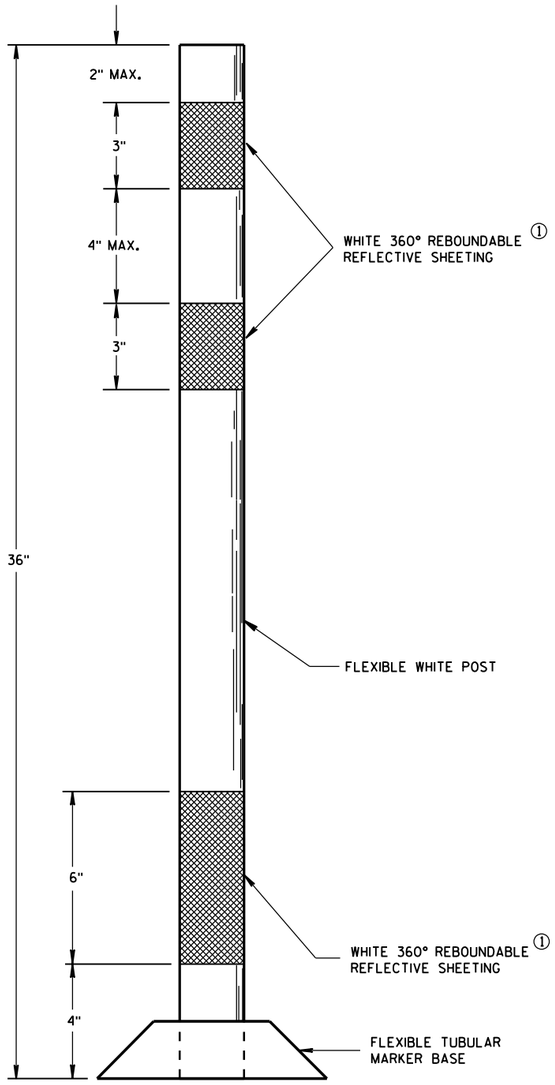
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 502

6

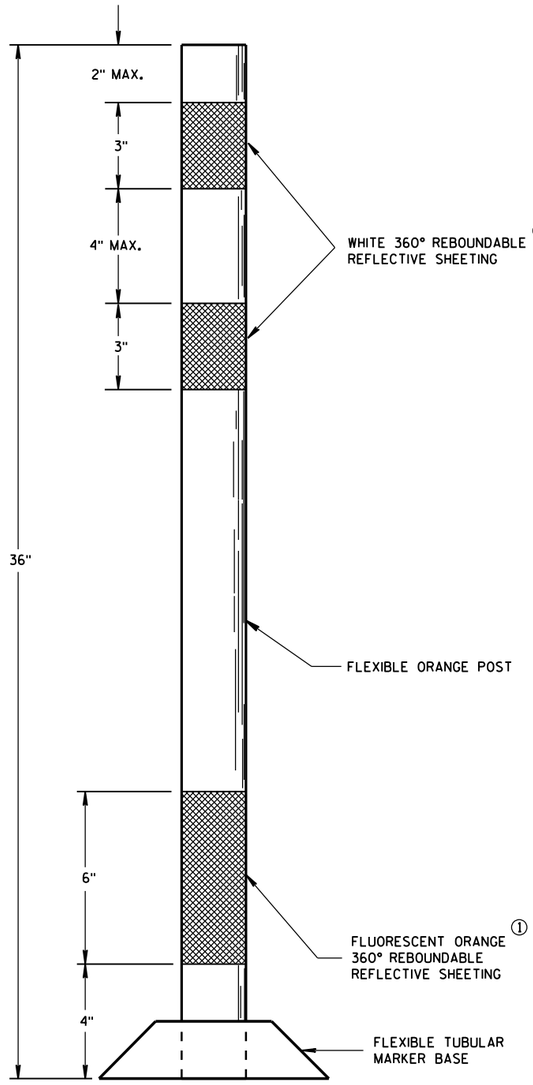
S.D.D. 15 C 8-16f

6

S.D.D. 15 C 8-16f



FLEXIBLE
TUBULAR MARKER POST
PERMANENT CROSSOVER



FLEXIBLE
TUBULAR MARKER POST
WORK ZONE

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

FLEXIBLE TUBULAR MARKER POST
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 10-16-2015 — DATE /S/ Peter Amakobe Atepe STATEWIDE WORK ZON SAFETY ENGINE FHWA

6

S.D.D. 15 C 11-6

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

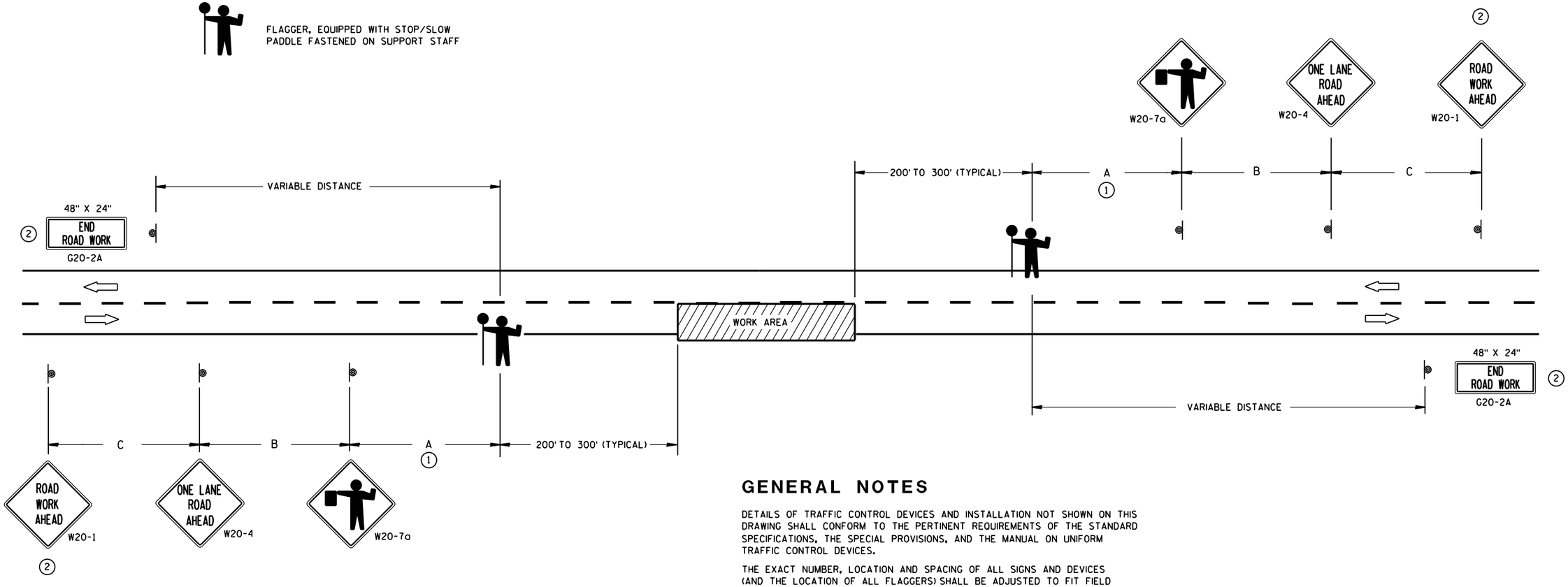
SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER

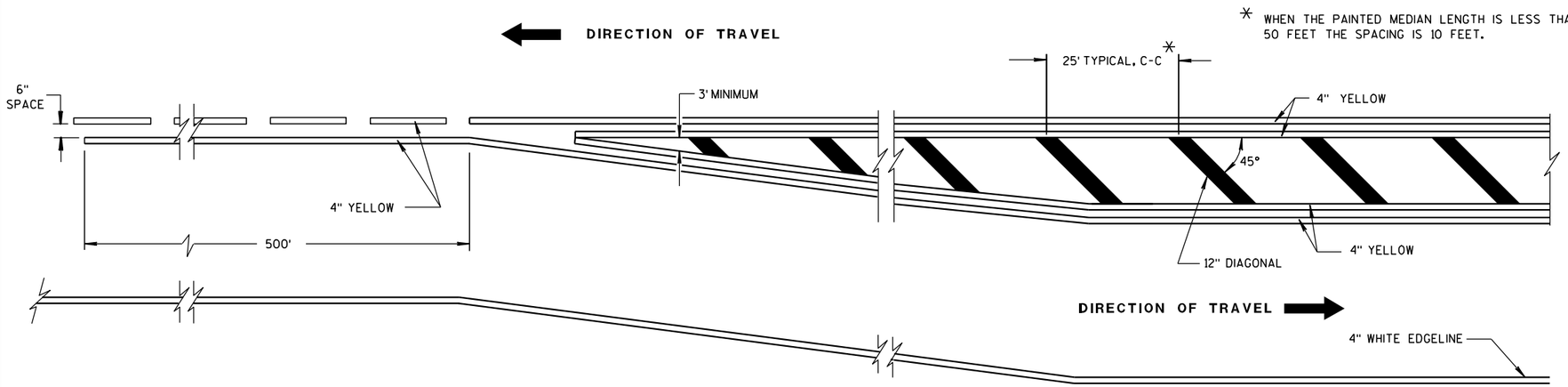
FHWA

6

S.D.D. 15 C 12-4

6

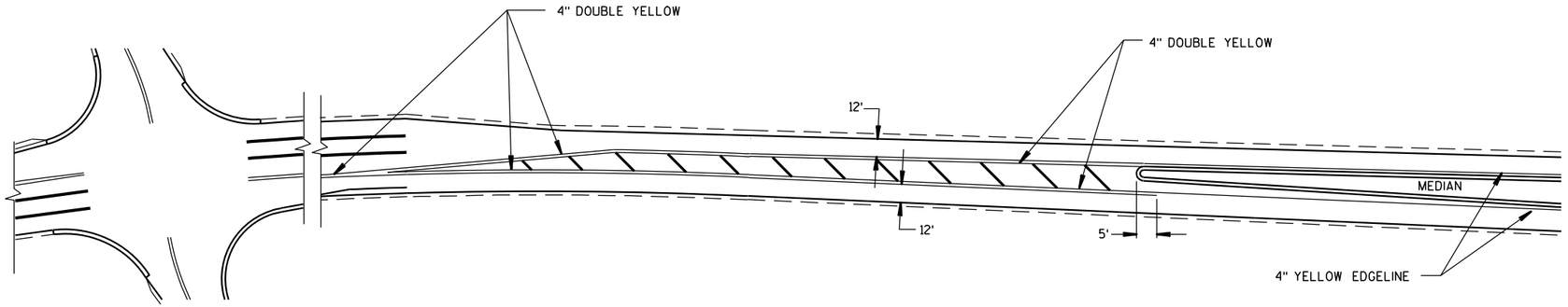
S.D.D. 15 C 12-4



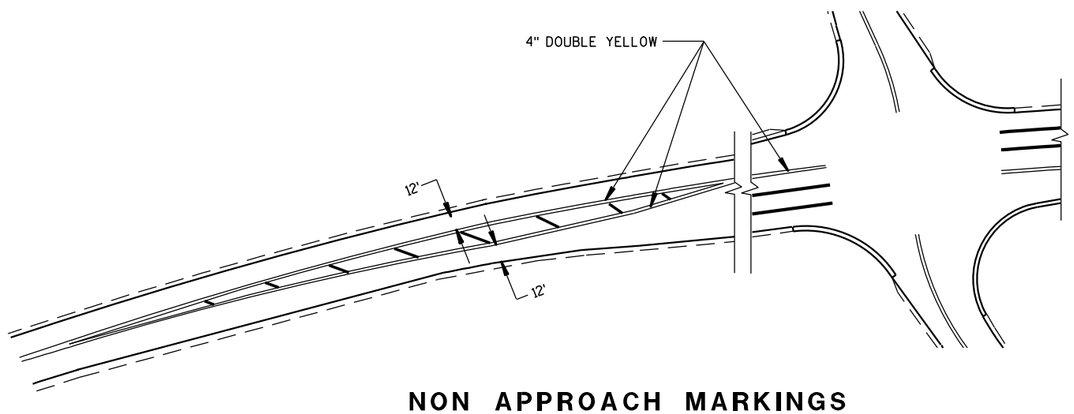
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

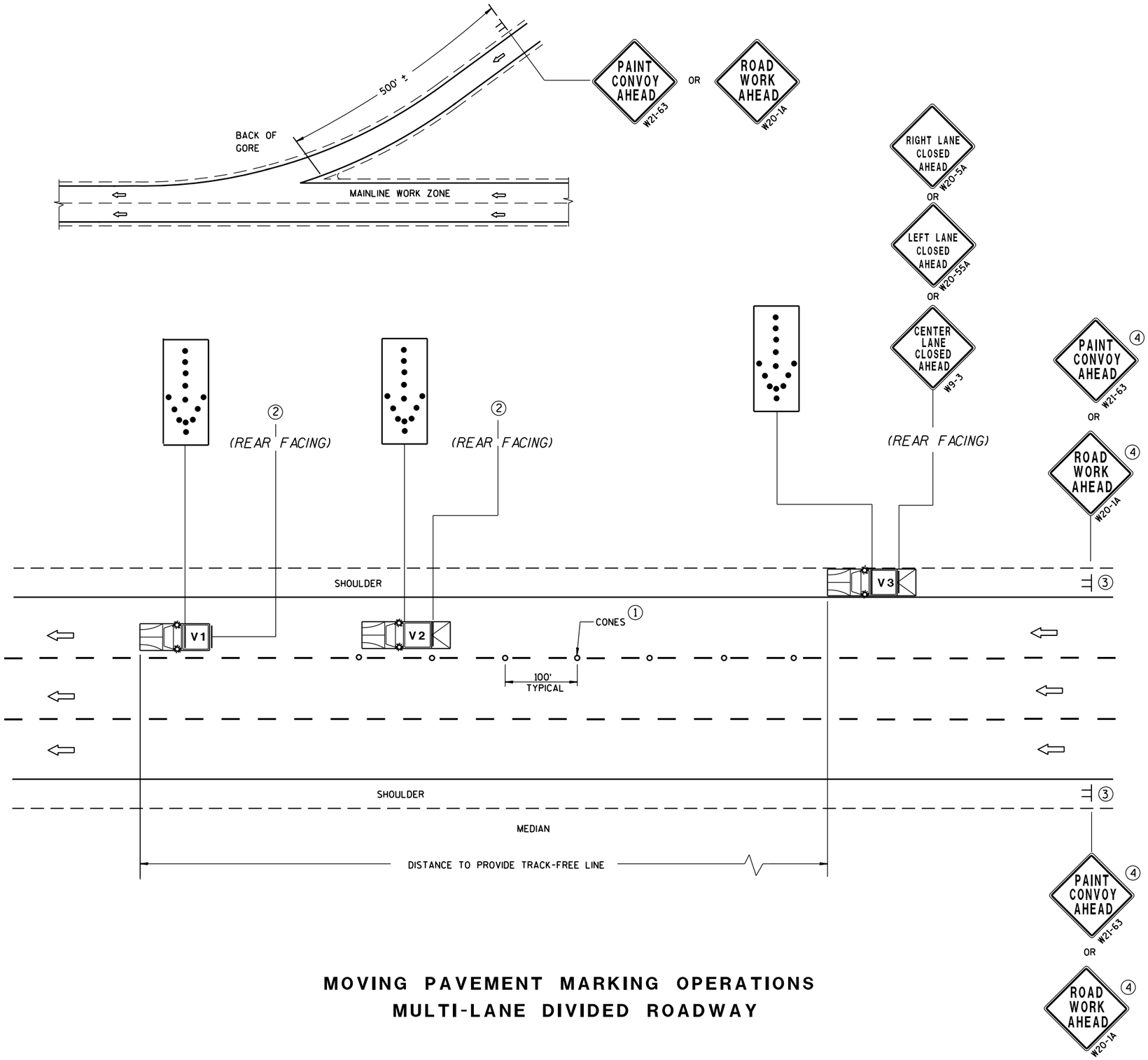
MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER 505 IGN
FHWA	

6

S.D.D. 15 C 18-3

6

S.D.D. 15 C 18-3



MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE DIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR EDGELINE OR LANELINE MARKING FOR MULTILANE DIVIDED ROADWAYS.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.

(4) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (MERGE)

MOVING PAVEMENT MARKING OPERATION
MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

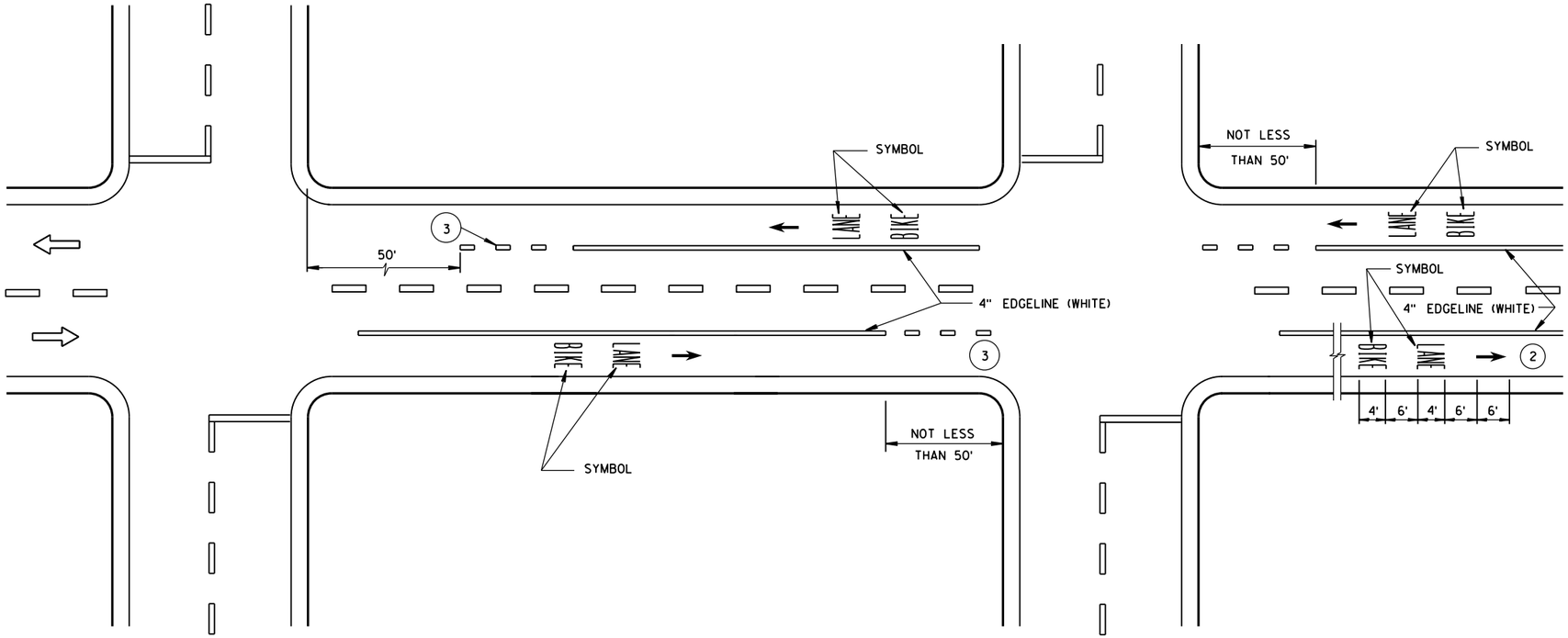
APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZON SAFETY ENGINI
FHWA

6

S.D.D. 15 C 19-4c

6

S.D.D. 15 C 19-4c

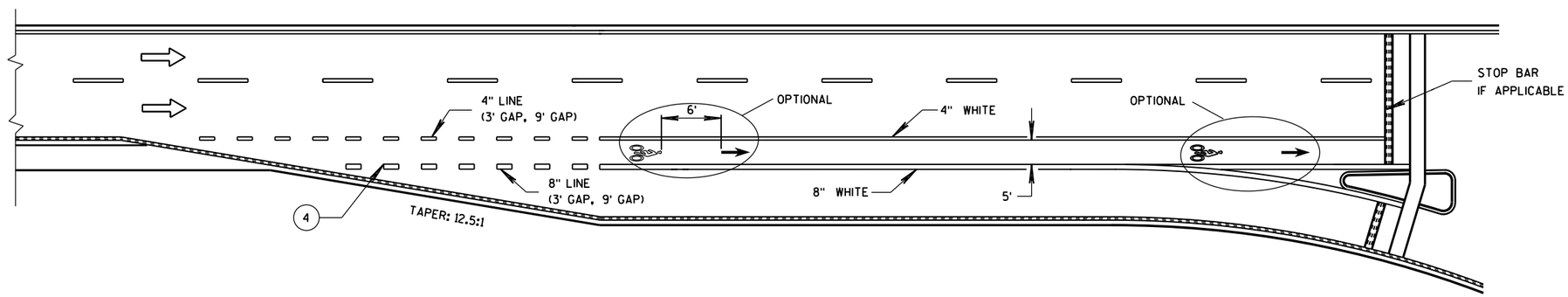


GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3'LINE, 9'GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.

⇨ DIRECTION OF TRAVEL

DESIGNATED BICYCLE LANE
NO PARKING



BIKE LANE - 4-LANE DIVIDED WITH RIGHT TURN LANE

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-18-2016 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR NEER
FHWA

6

S.D.D. 15 C 29-4a

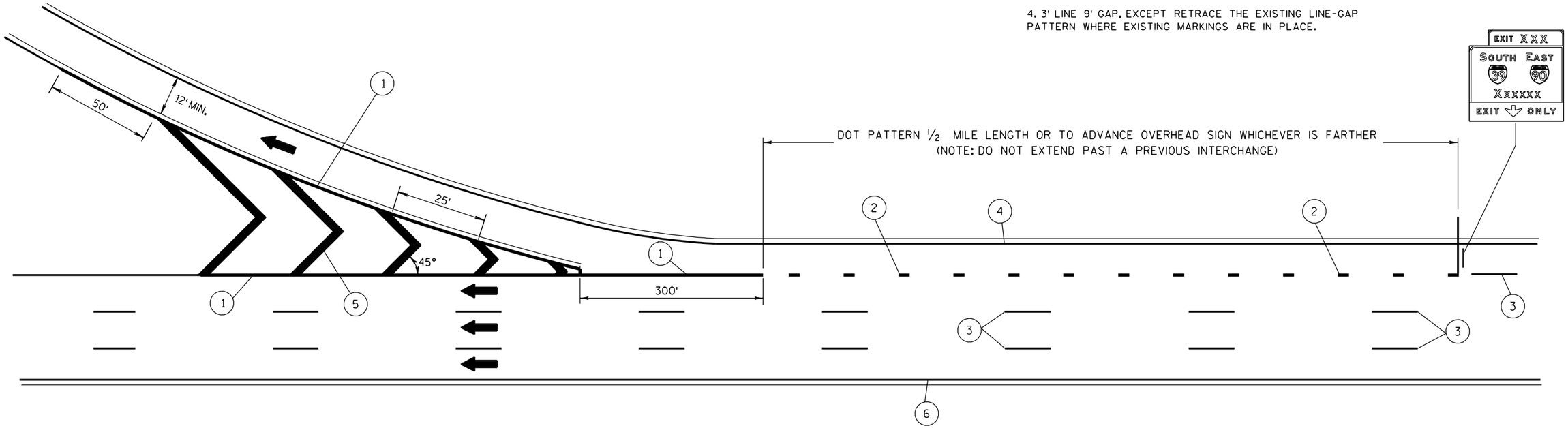
NOTES:

1. SEE STANDARD DETAIL DRAWING 15 C 10 FOR SPRAYED OR NON WET REFLECTIVE LINE SEGMENTS.

2. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.

3. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.

4. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.



1. CHANNELIZING - SOLID 8" WHITE WET RELECTIVE TAPE
2. 3' LINE, 9' GAP SOLID 8" WHITE WET REFLECTIVE TAPE. SEE NOTE 4.
3. SOLID 4" WHITE WET REFLECTIVE TAPE
4. 4" WHITE EDGELINE
5. CHEVRON MARKING - 24" WHITE WHEN SPECIFIED IN THE CONTRACT
6. 4" YELLOW EDGELINE

LANE DROP
PAVEMENT MARKING

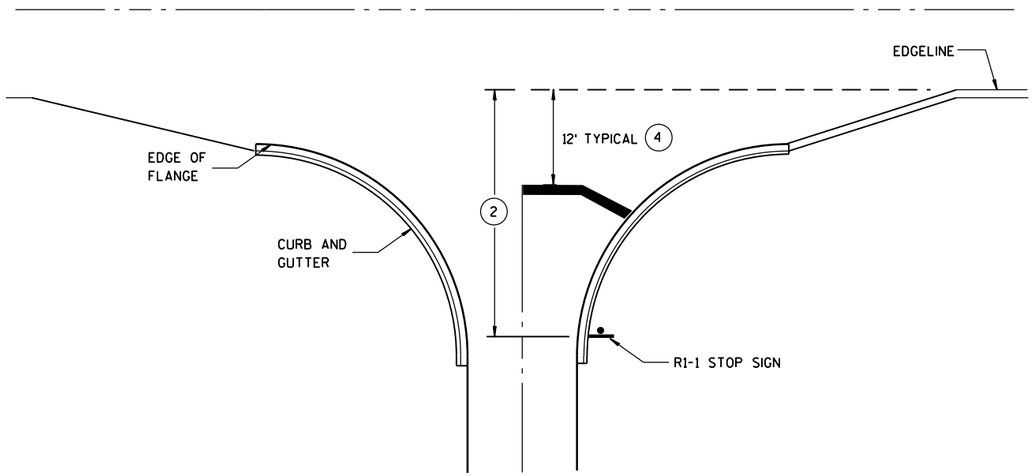
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

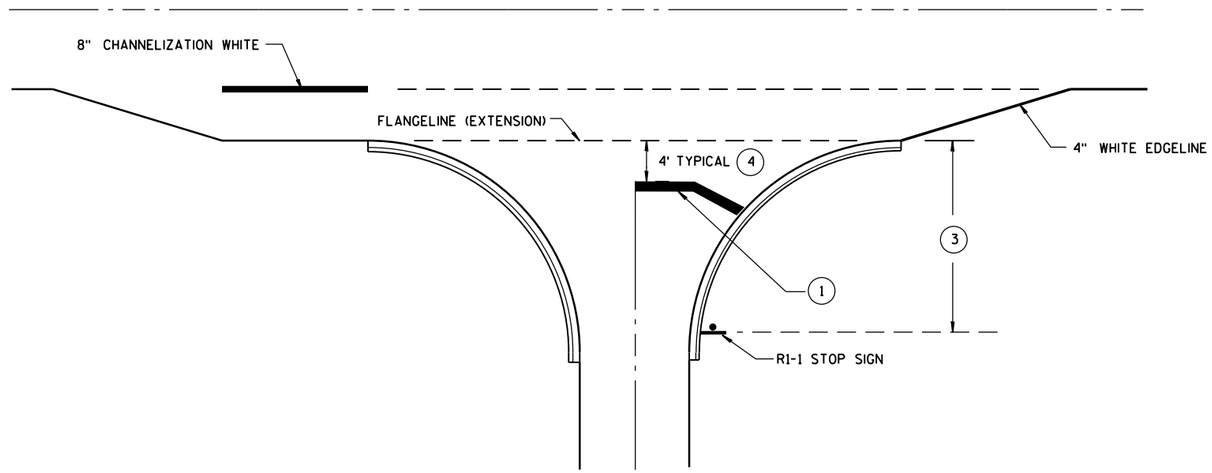
S.D.D. 15 C 31-1b

6

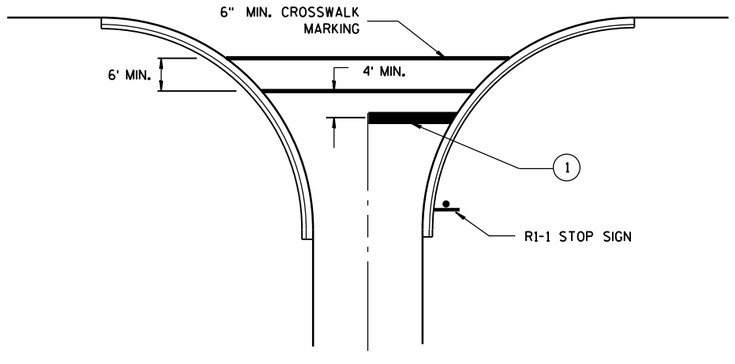
S.D.D. 15 C 31-1b



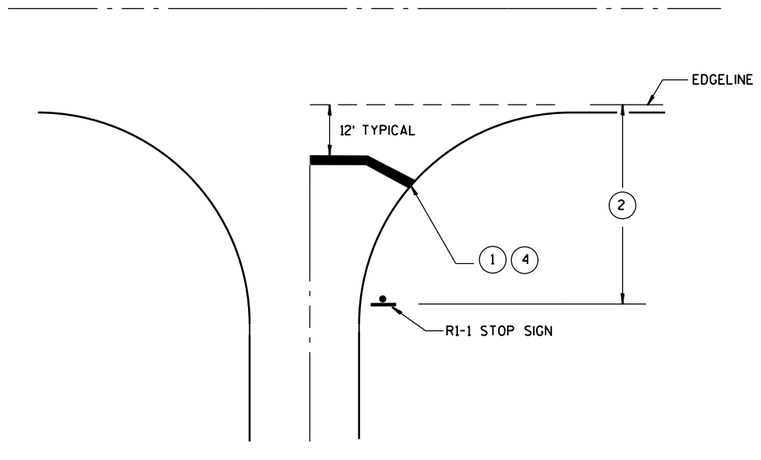
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR 509 NEER

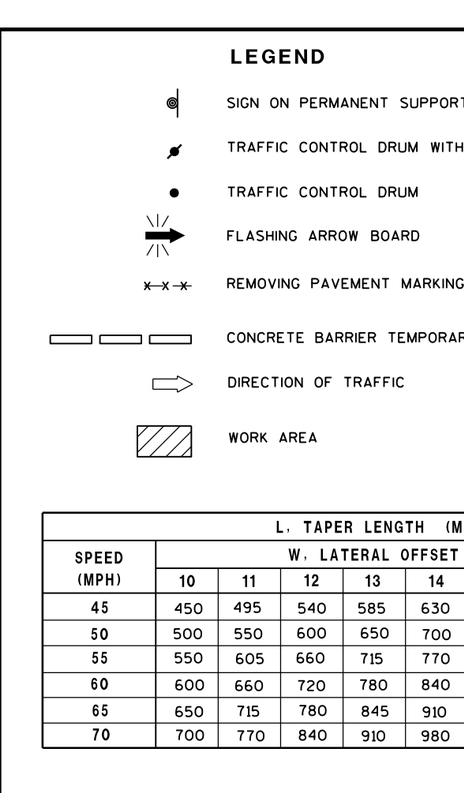
FHWA

6
S.D.D. 15 C 33-2

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- REMOVING PAVEMENT MARKING
- CONCRETE BARRIER TEMPORARY PRECAST
- DIRECTION OF TRAFFIC
- WORK AREA

L, TAPER LENGTH (MPH)									
SPEED (MPH)	W, LATERAL OFFSET (FT)								
	10	11	12	13	14	15	16	17	18
45	450	495	540	585	630	675	720	765	810
50	500	550	600	650	700	750	800	850	900
55	550	605	660	715	770	825	880	935	990
60	600	660	720	780	840	900	960	1020	1080
65	650	715	780	845	910	975	1040	1105	1170
70	700	770	840	910	980	1050	1120	1190	1260



W12-52P 42"x36" EACH LANE

OR



INSTALL ON EACH APPROACH AT THE CLOSEST INTERSECTION WITH A STATE OR COUNTY TRUNK HIGHWAY, OR AS DIRECTED BY THE ENGINEER. WIDTH ON SIGN TO BE APPROX. 1 FOOT LESS THAN AVAILABLE WIDTH (OMIT IF AVAILABLE WIDTH IS MORE THAN 16 FEET).



OR



LOCATED 2600 FEET IN ADVANCE OF R2-1 SIGN AND 500 FEET BEYOND THE "ROAD WORK 1 MILE" SIGN.



OR



R2-1
48"x60"
(BLACK AND WHITE)
LOCATED 500 FEET BEYOND W20-5G SIGN.

IF THE REGULATORY SPEED HAS BEEN REDUCED, A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. THERE SHOULD BE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 2 OR 3 MILES.

* INCLUDE RESUME SPEED LIMIT SIGN A MINIMUM OF 200 FEET (500 FEET DESIRABLE) AFTER END ROAD WORK SIGNS.

GENERAL NOTES

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

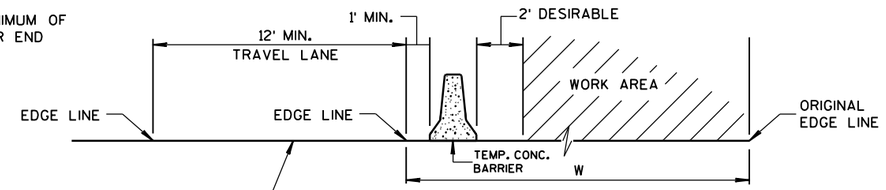
(1) CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUM TAPER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

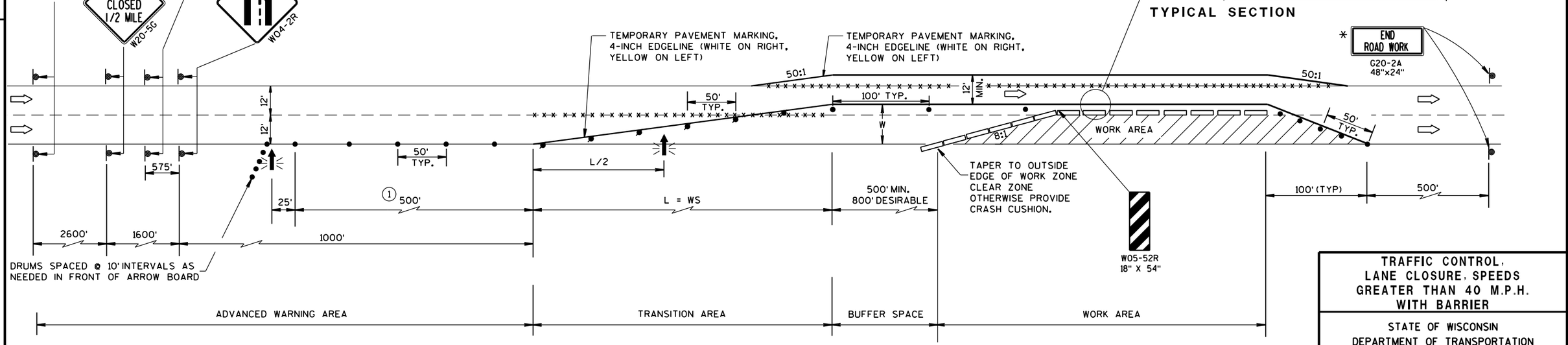
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.



TYPICAL SECTION



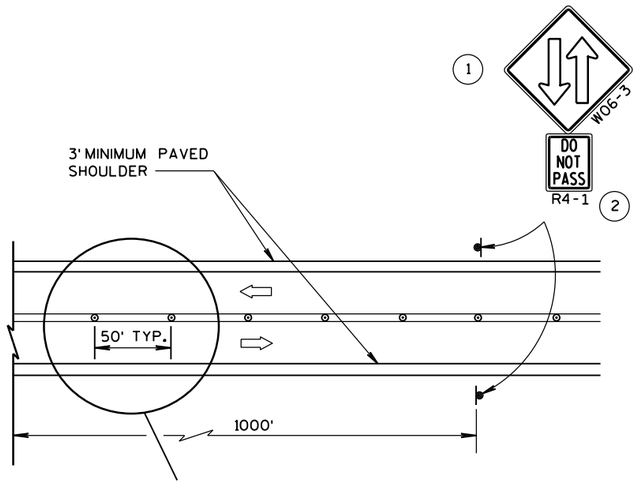
TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

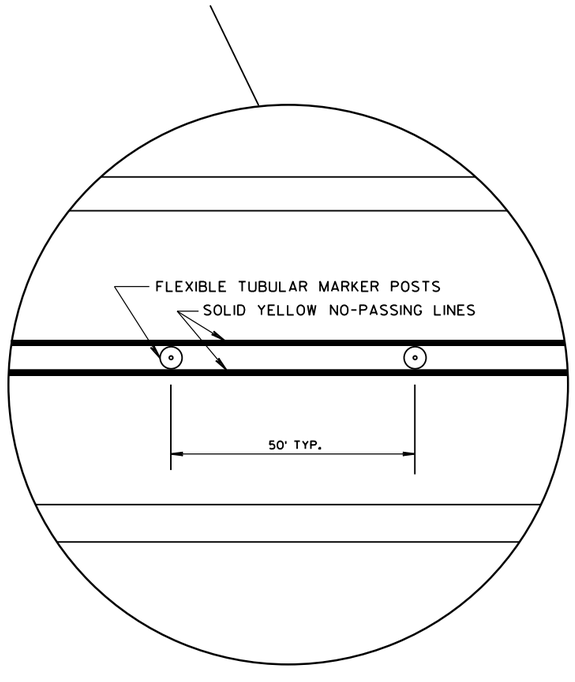
APPROVED March 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER — IC
FHWA

S.D.D. 15 D 3-3

S.D.D. 15 D 3-3



TWO LANE, TWO WAY OPERATION



GENERAL NOTES

ALL SIGNS ARE 48"x48" UNLESS OTHERS NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50-FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW.



THE W06-3 WITH THE W057-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND/OR 500 FEET BEYOND ANY SIDEROAD. THE W06-3 WITH THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE W06-3 AND THE W057-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN W06-3 SIGNS.

(2) CONVENTIONAL: 24"x30"
FREEWAY AND EXPRESSWAY: 36"x48"

LEGEND

- SIGN ON PERMANENT SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 DATE
/S/ Travis Feltes STATE TRAFFIC ENGINEER
SIGN
FHWA

6

S.D.D. 15 D 6-3

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMENENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

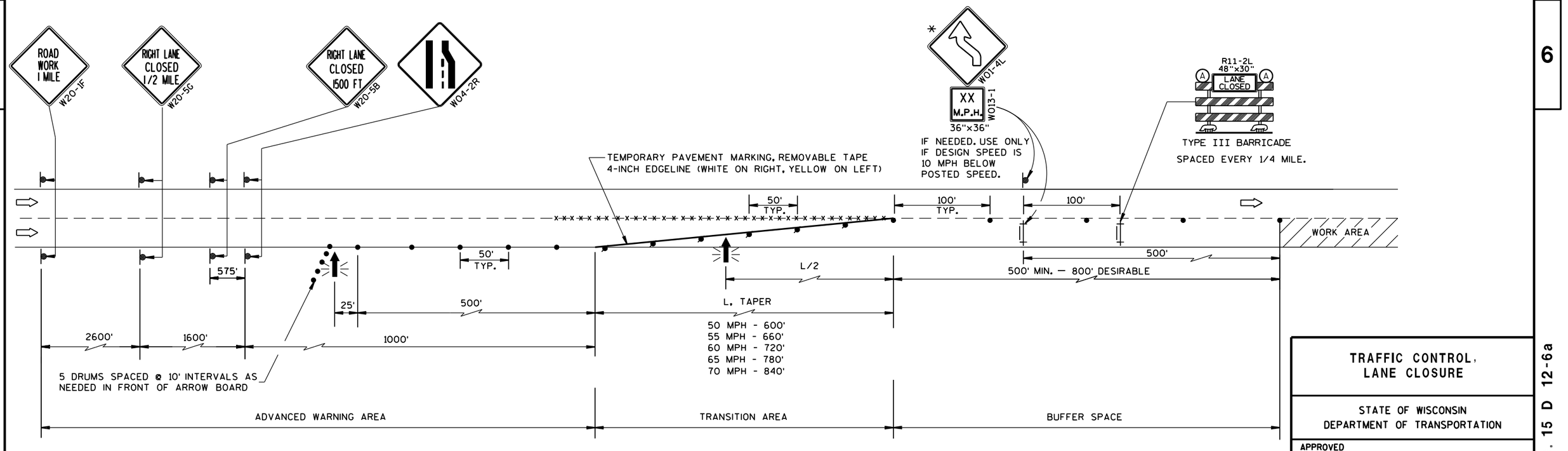
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL, LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGIN IC
FHWA

6

S.D.D. 15 D 12-6a

6

S.D.D. 15 D 12-6a

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S \ W	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

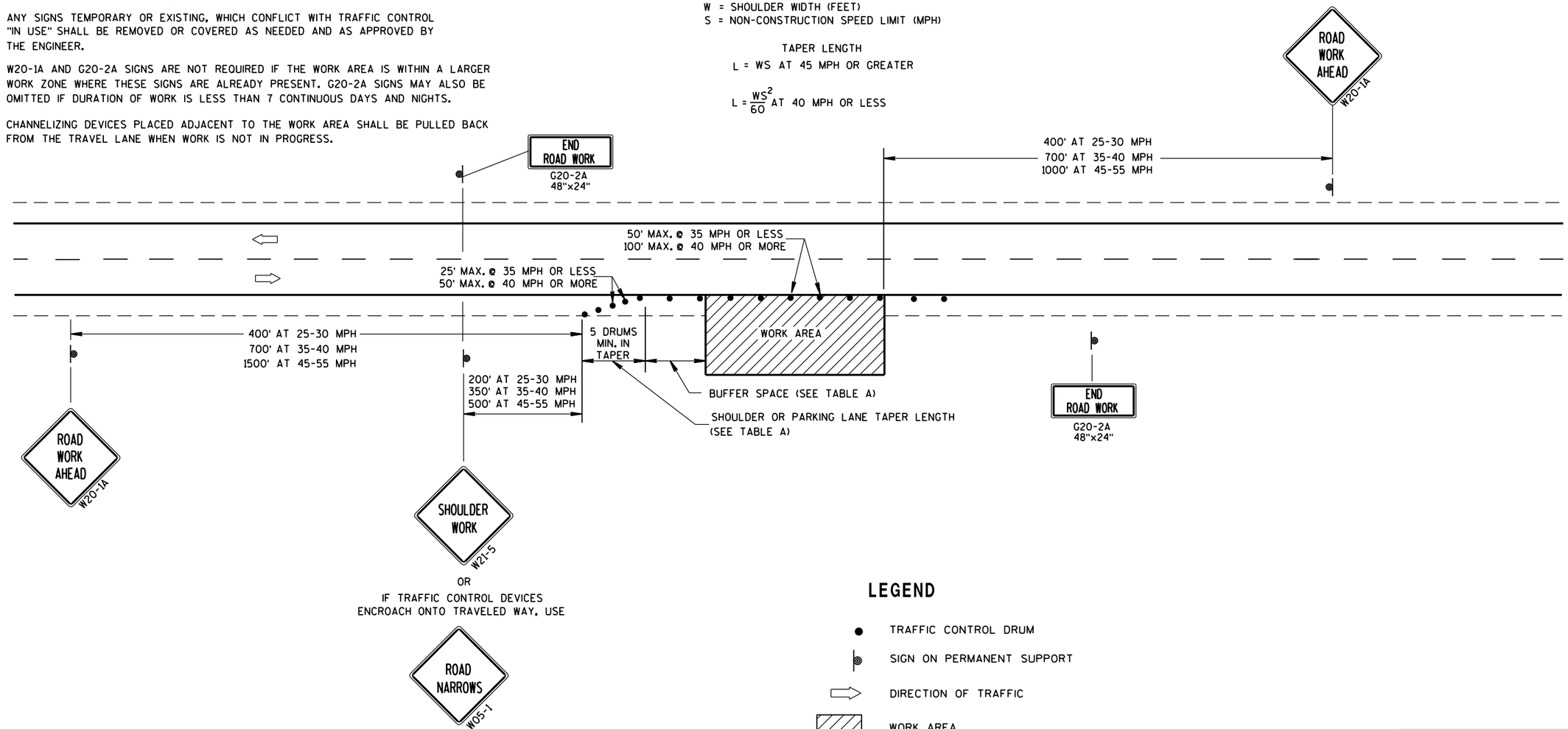
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

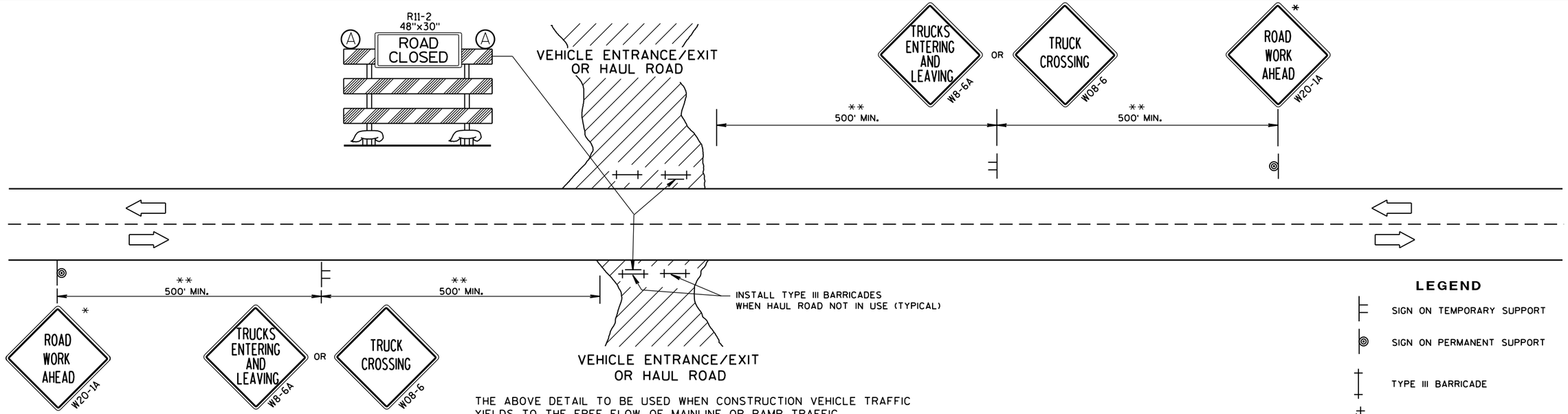
July 14, 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

6

S.D.D. 15 D 28-3



THE ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS, DEVICES AND FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

* THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE **ENTRANCE/EXIT CONDITIONS ARE SEPARATED BY MORE THAN 2 MILES** FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.

** 500 FEET SHOWN IS FOR ROADWAYS WITH A NON-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FEET. FOR 25-30 MPH, USE 200 FEET. USE 1000 FEET/1500 FEET FOR EXPRESSWAY/FREEWAY.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

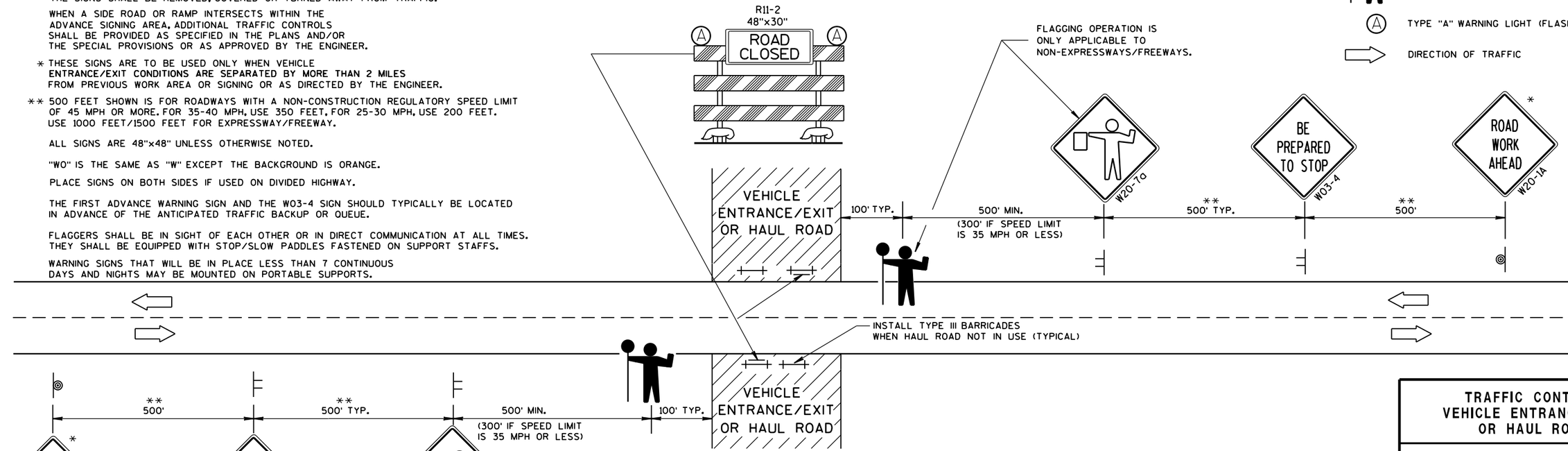
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

THE FIRST ADVANCE WARNING SIGN AND THE W03-4 SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.



THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

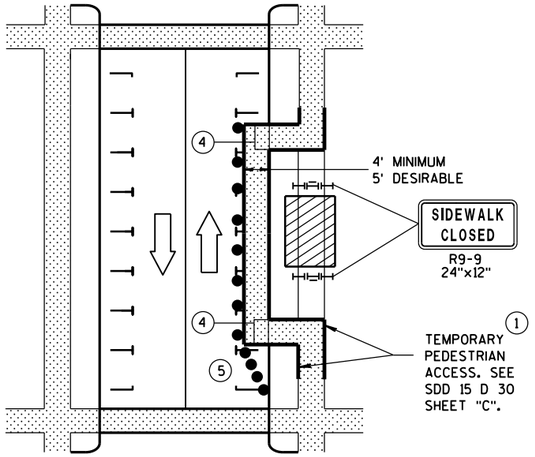
June 2016	/S/ Peter Amakobe Atepe
DATE	STATEWIDE WORK ZONE SAFETY ENGINEER

FHWA

6

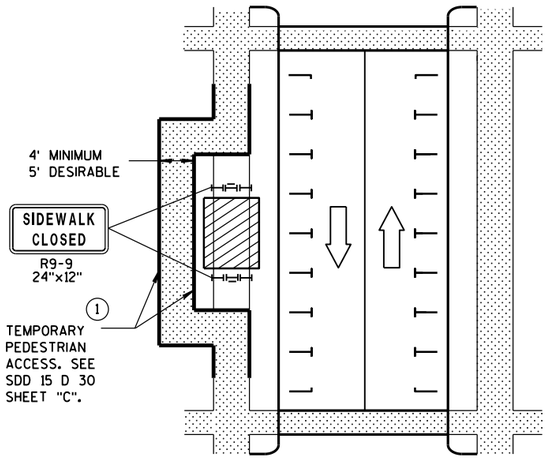
S.D.D. 15 D 29-4

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

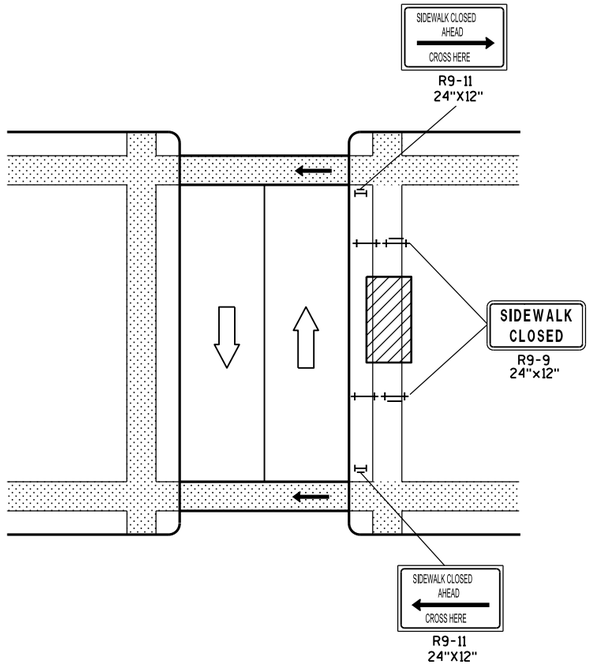


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

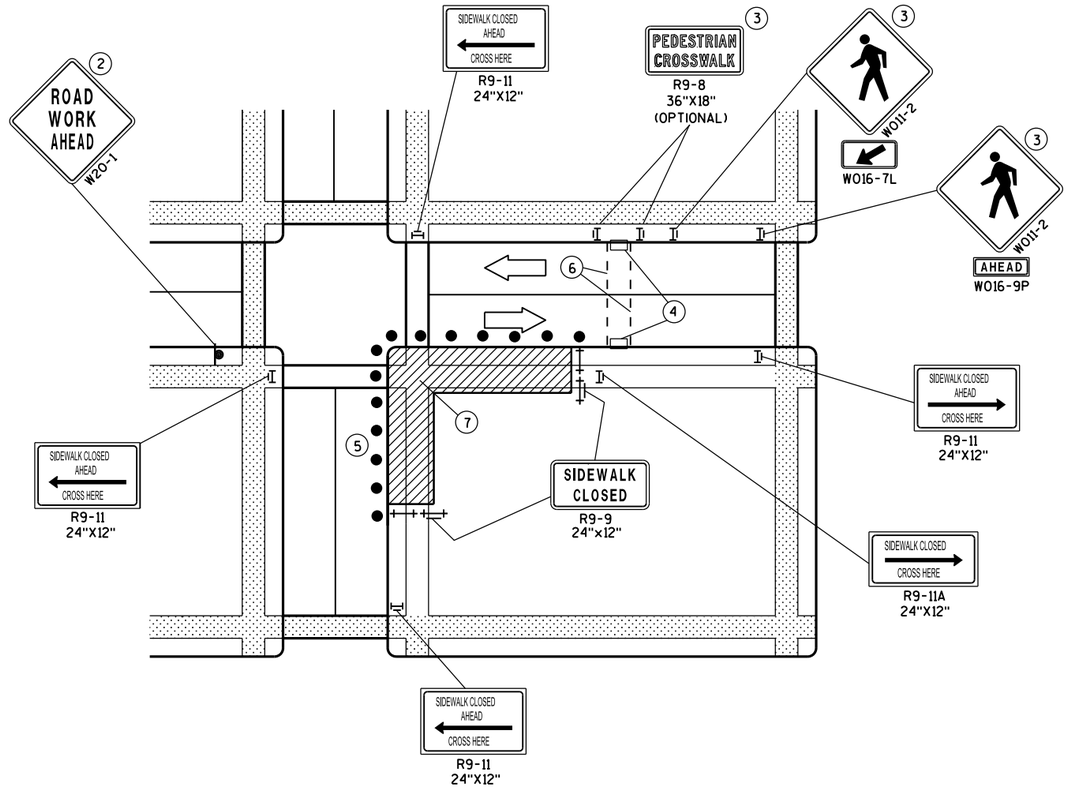
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

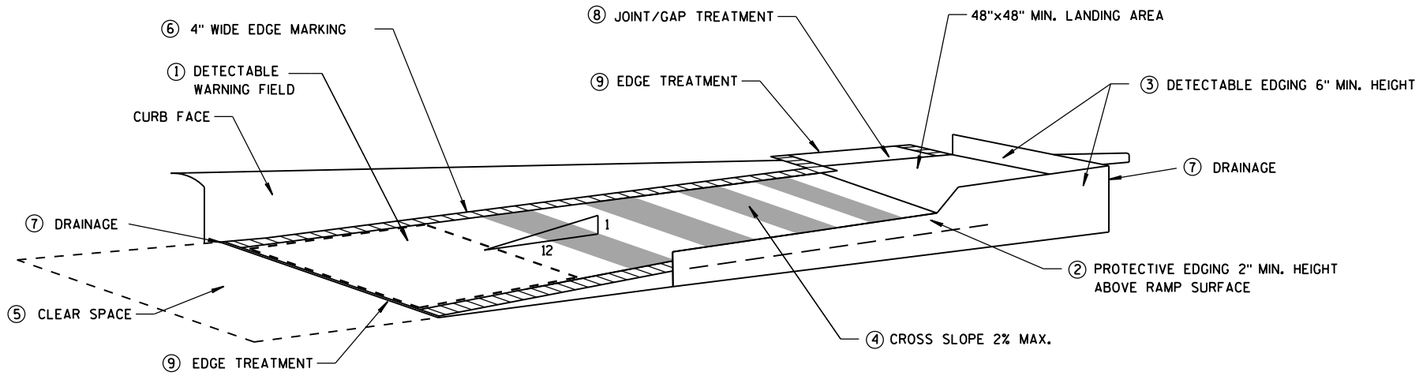
- SIGN ON PERMANENT SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- DIRECTION OF TRAFFIC
- TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 30-3a



TEMPORARY CURB RAMP PARALLEL TO CURB

GENERAL NOTES

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

① CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 8D5 SHEET "E".

② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

④ CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

⑤ CLEAR SPACE OF 48"X48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

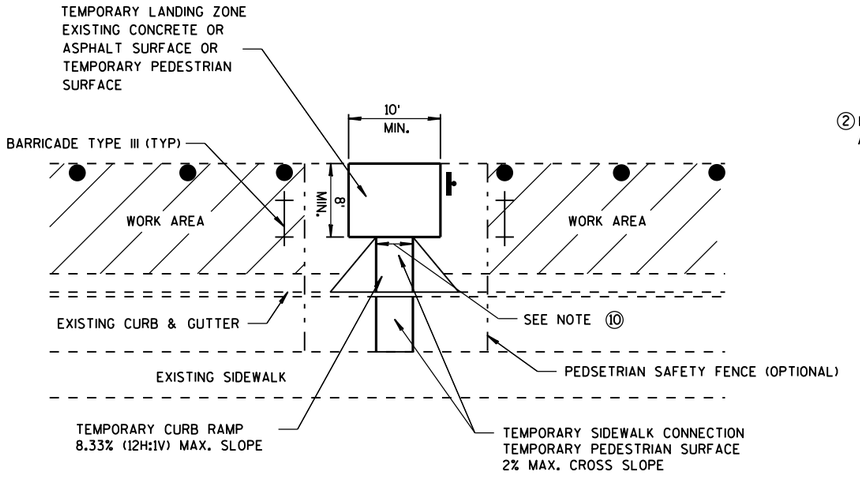
⑥ THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.

⑦ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

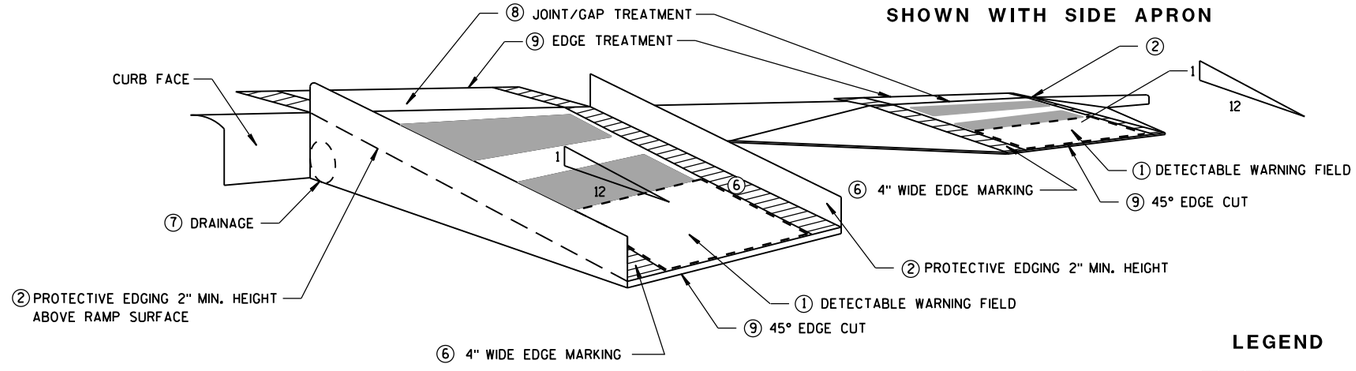
⑧ LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

⑨ CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHALL BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

⑩ 5' WIDE MIN. WITH PEDSETRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.



TEMPORARY BUS STOP PAD



SHOWN WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

LEGEND

WORK AREA

TYPE III BARRICADE

TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

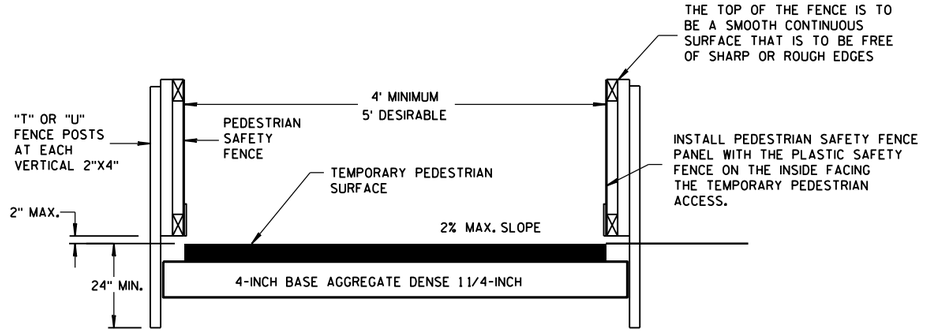
June 2016 — DATE

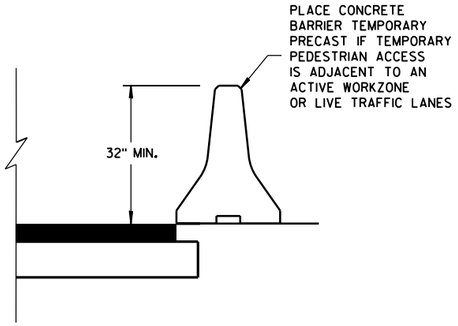
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO SAFETY ENGI IC

FHWA

6

S.D.D. 15 D 30-3b

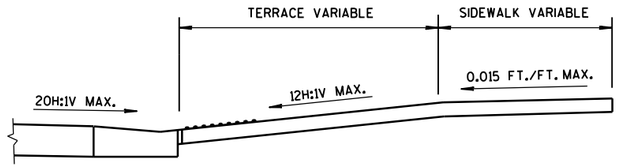




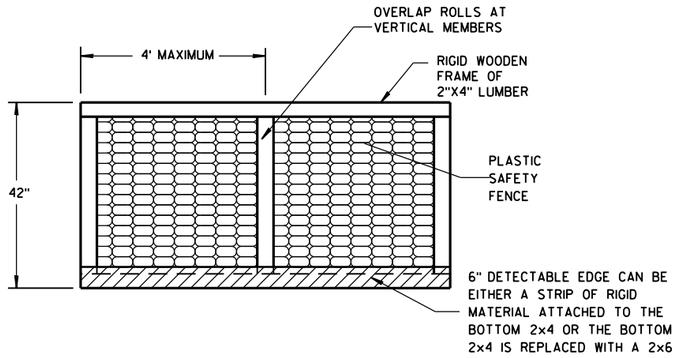
TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

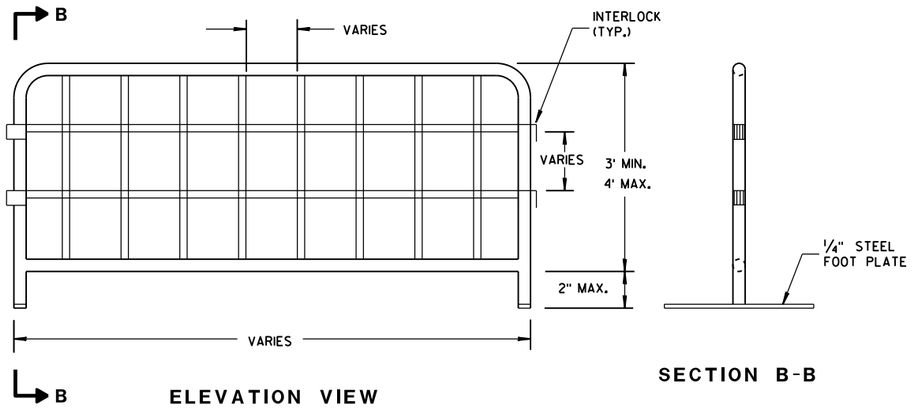
(1) INTERCHANGEABLE WITH THE PEDESTRIAN SAFETY FENCE.



SECTION A-A



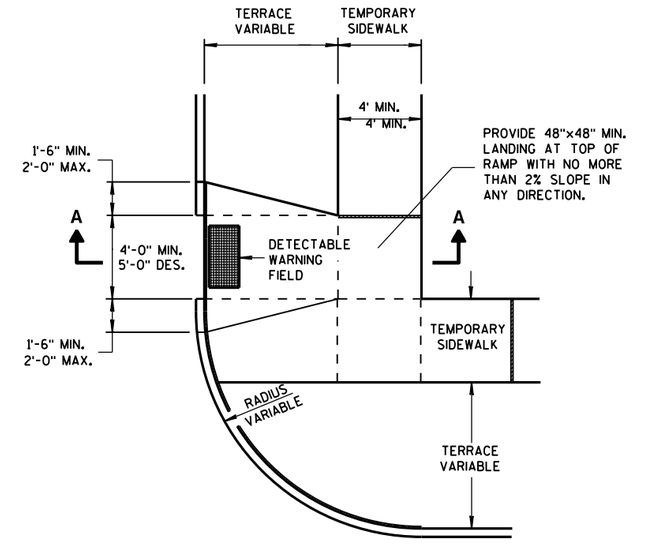
PEDESTRIAN SAFETY FENCE



ELEVATION VIEW

SECTION B-B

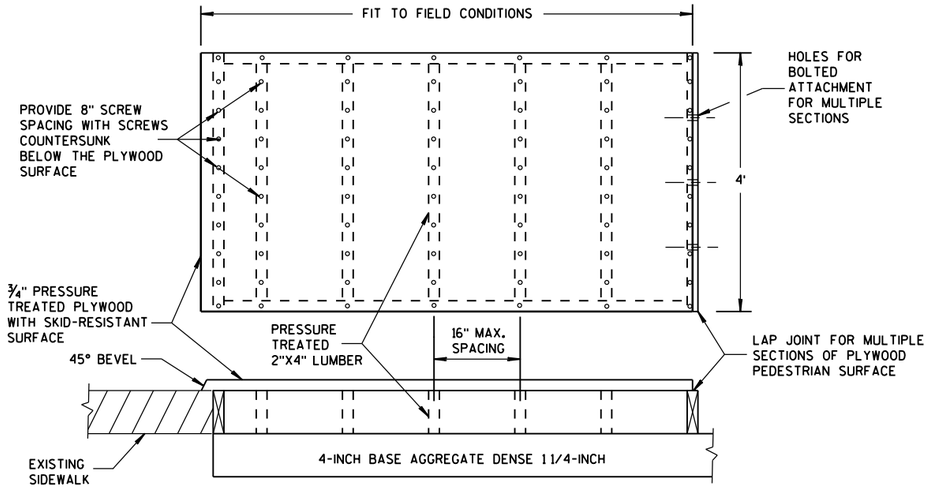
TEMPORARY PEDESTRIAN STEEL BARRICADE (1)



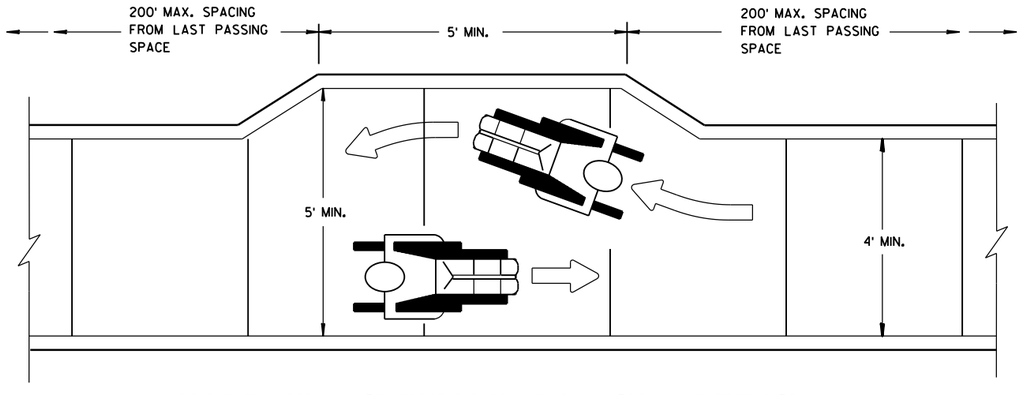
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



NARROW SIDEWALK PASSING DETAIL

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

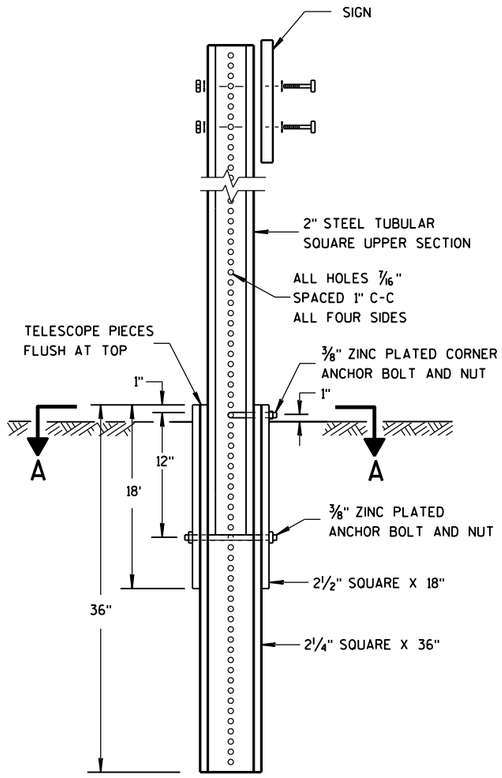
APPROVED
June 2016
DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZON SAFETY ENGIN IC
FHWA

6

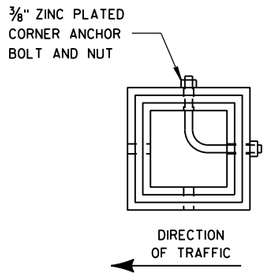
S.D.D. 15 D 30-3c

6

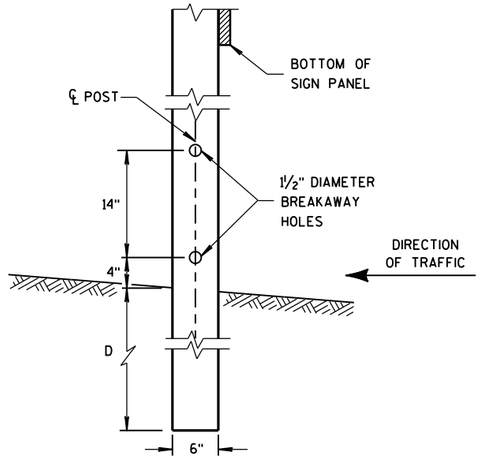
S.D.D. 15 D 30-3c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



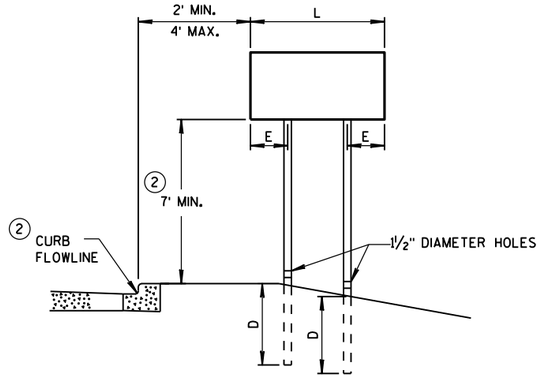
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

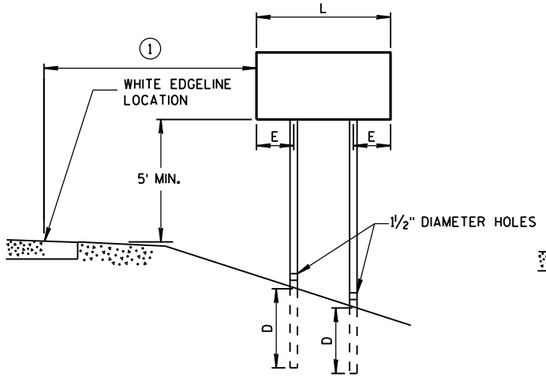
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

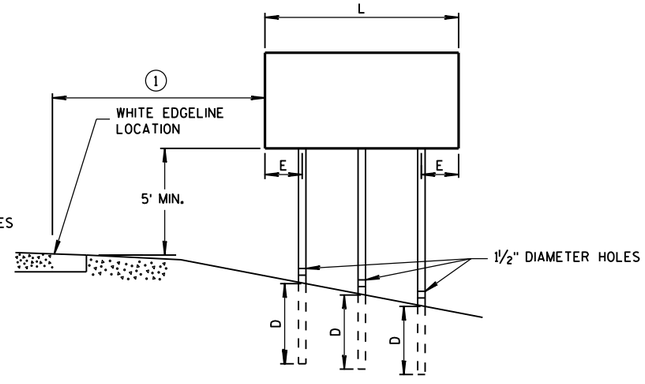
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

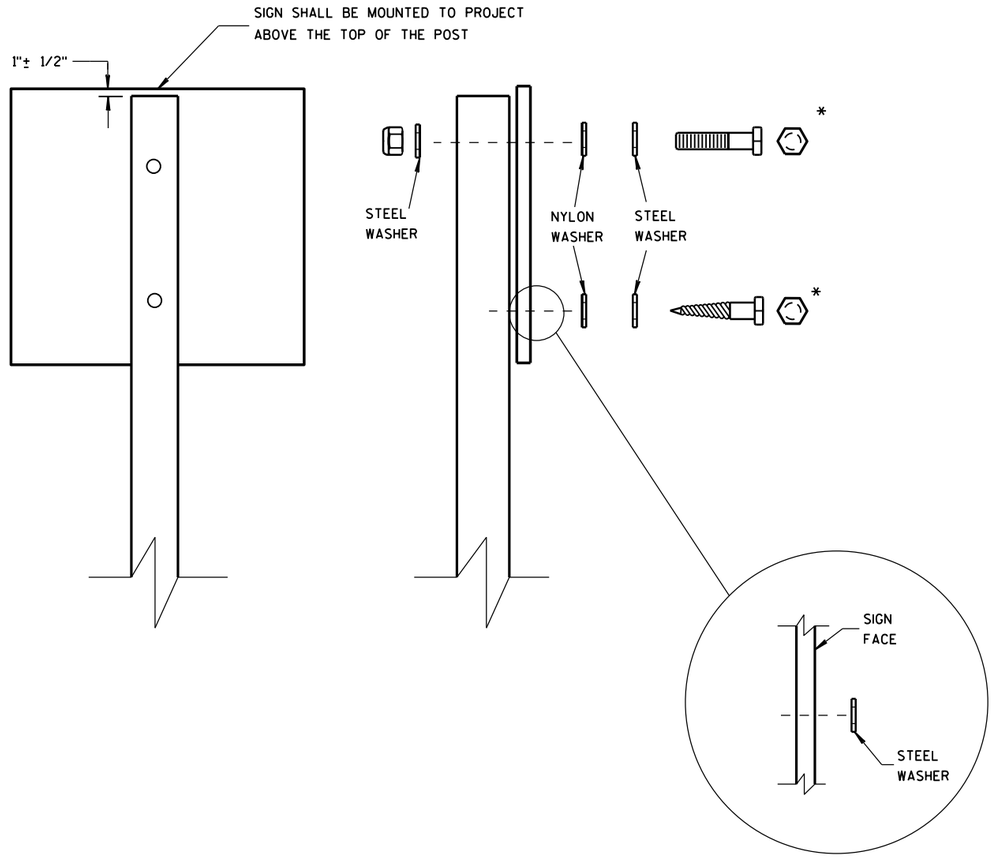
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPO

6

S.D.D. 15 D 38-1a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-1b

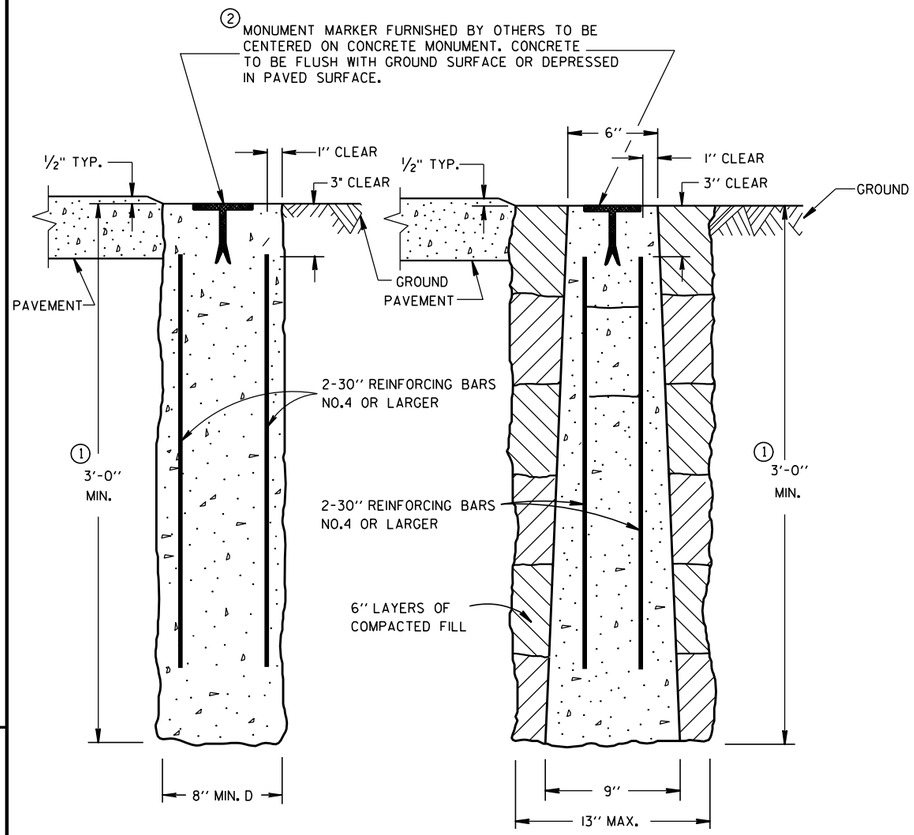
S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

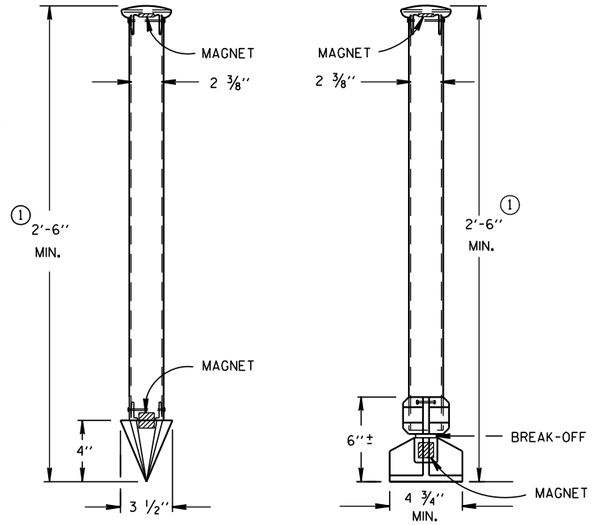
SIGN



CAST-IN-PLACE PRECAST

CONCRETE MONUMENTS

TYPE A



TYPE C DRIVE-IN MONUMENT

TYPE D BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

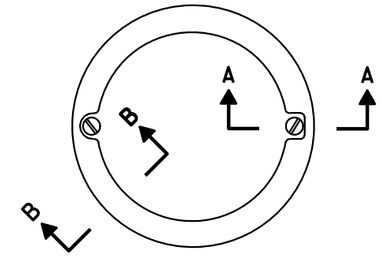
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

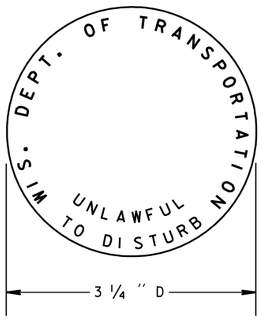
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

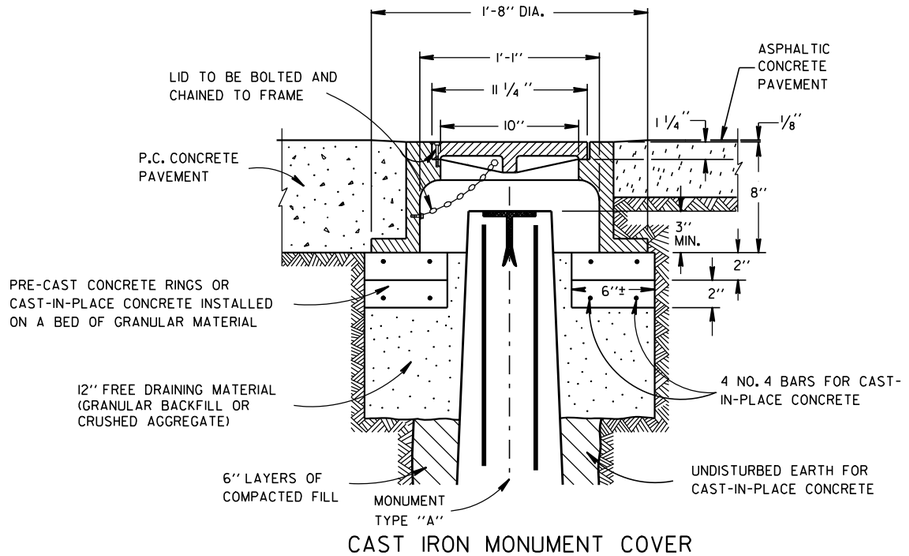
② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW

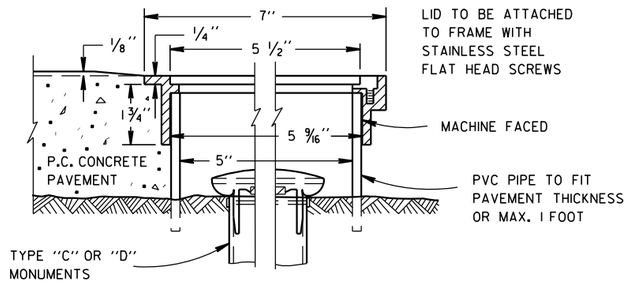


② WIS DOT MONUMENT MARKER LOGO FOR TYPES "A", "C" & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)

(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MOUNMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

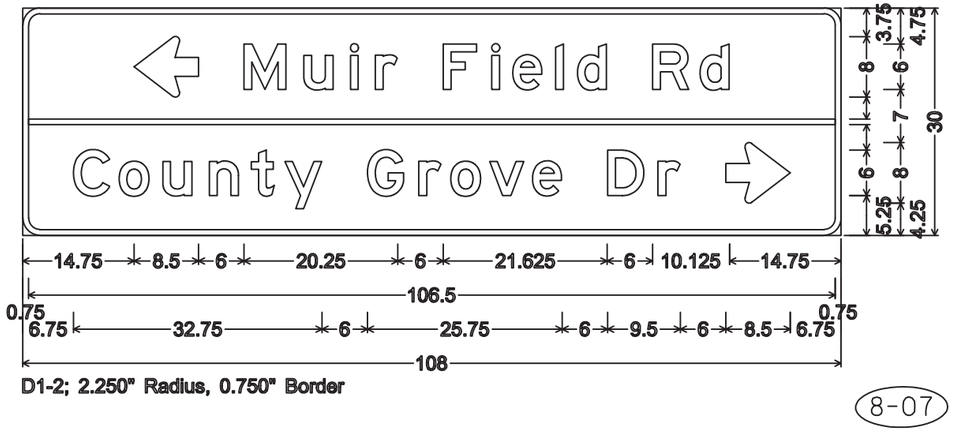
APPROVED

9/22/1999 DATE

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 16 A 1-6

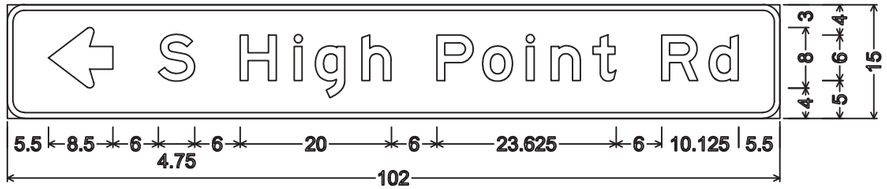


D1-2; 2.250" Radius, 0.750" Border

8-07

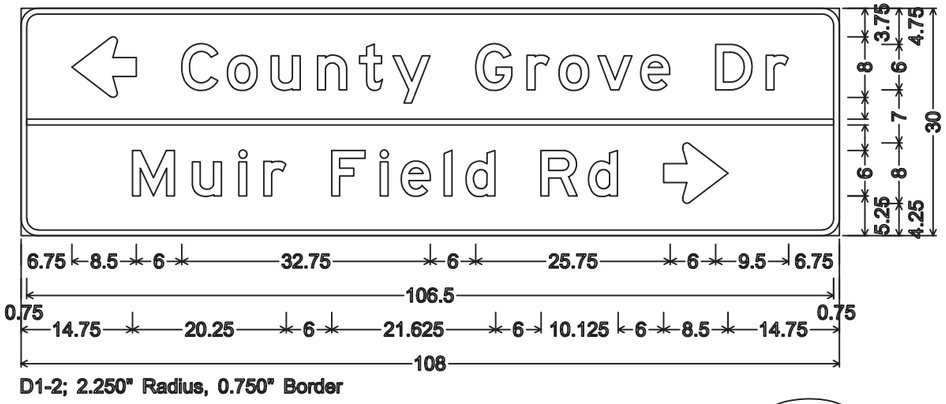
NOTES

1. All Signs are Type II - Type H Reflective - reference WIS DOT Standard Specifications for ROAD and BRIDGE CONSTRUCTION latest edition.
2. COLOR:
   Background - Green
   Message - White
3. Message Series - E except where noted



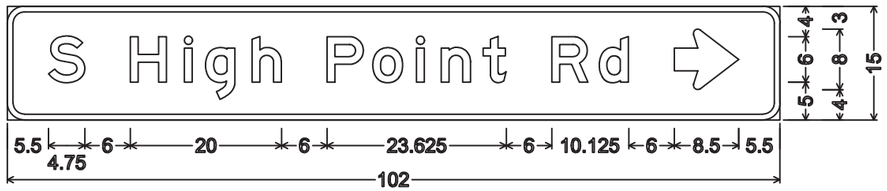
D1-1; 2.250" Radius, 0.750" Border

5-07



D1-2; 2.250" Radius, 0.750" Border

10-02



D1-1; 2.250" Radius, 0.750" Border

6-31

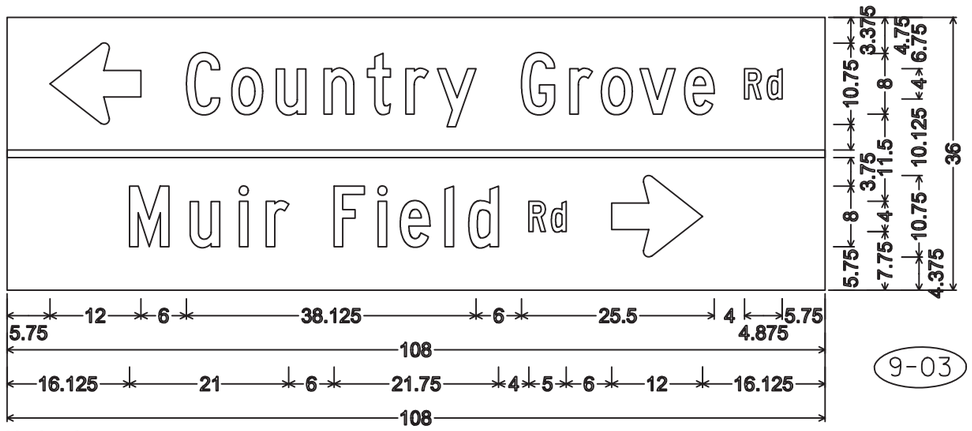
7

7

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	SIGNING DETAILS	SHEET 521	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PERMANENT SIGNING\070101-SD-PD.DWG
LAYOUT NAME - ****
PLOT DATE : 10/27/2016 10:03 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET

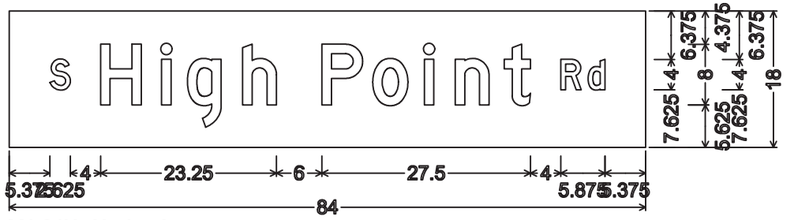


9-03

No border
Standard Arrow Custom 12.000" X 10.750" 180°; "Country" C; "Grove" C; "Rd" C;
"Muir" C; "Field" C; "Rd" C; Standard Arrow Custom 12.000" X 10.750" 0°;

NOTES

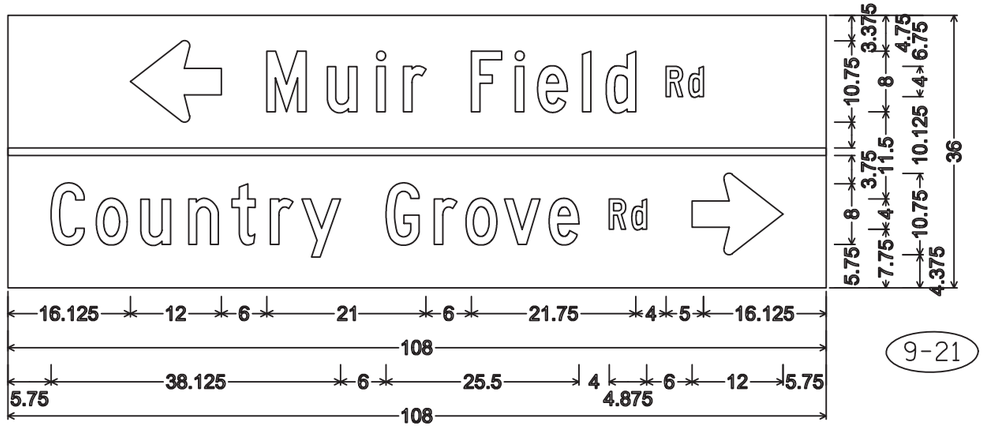
1. All Signs are Type II - Type H Reflective - reference WIS DOT Standard Specifications for ROAD and BRIDGE CONSTRUCTION latest edition.
2. COLOR:
   Background - Green
   Message - White
3. Message Series - E except where noted



6-03

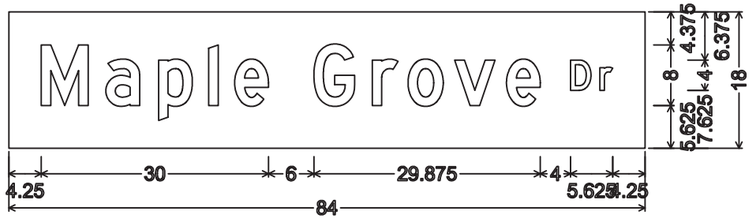
6-22

M1-94H; No border
"S" D; "High" D; "Point" D; "Rd" D;



9-21

No border
Standard Arrow Custom 12.000" X 10.750" 180°; "Muir" C; "Field" C; "Rd" C;
"Country" C; "Grove" C; "Rd" C; Standard Arrow Custom 12.000" X 10.750" 0°;



15M-02

M1-94H; No border
"Maple" D; "Grove" D; "Dr" D;

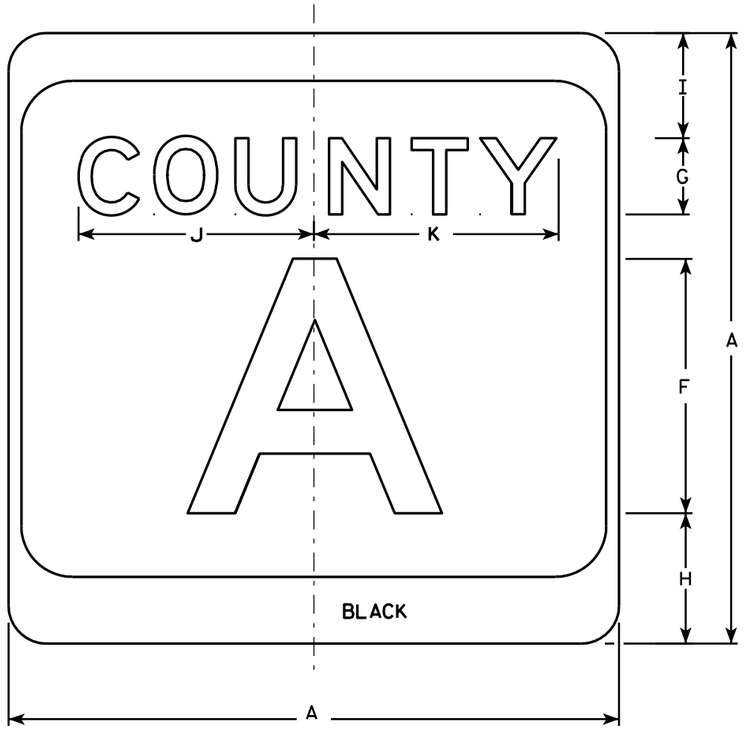
7

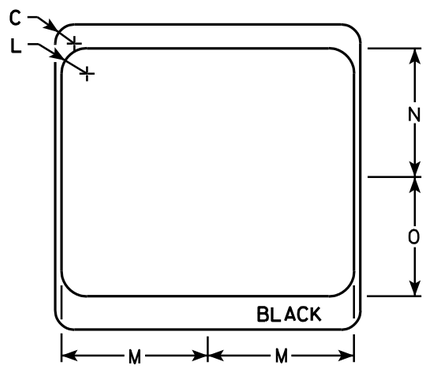
7

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	SIGNING DETAILS	SHEET 522	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\PERMANENT SIGNING\070101-SD-PD.DWG
LAYOUT NAME - ****
PLOT DATE : 10/27/2016 10:03 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:100 FT

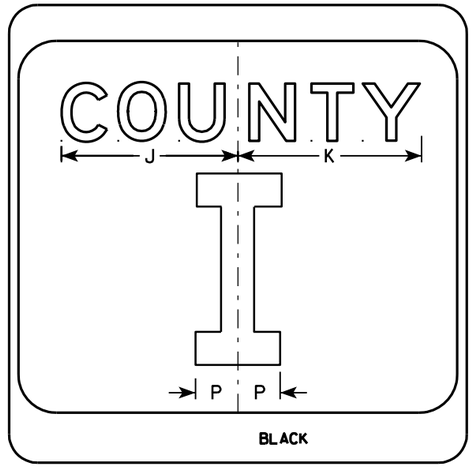
WISDOT/CADDS SHEET

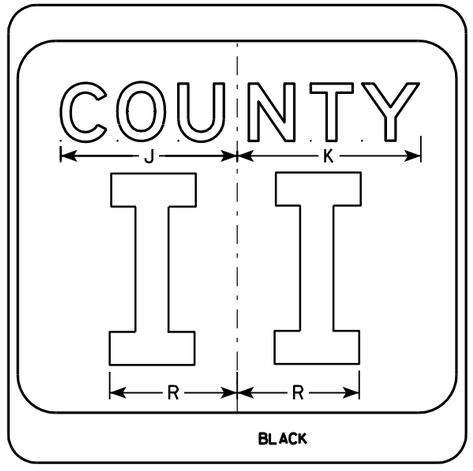




NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective





SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 523	E

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



M1-94

* Minimum dimension is normally height of upper case letter.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	Varies	15	2 1/4		3/4	4 1/2	6	5	4 1/8	8 5/8	5 1/4	14 5/8	7 3/4	6	8 1/2			30									Varies
3																											
4	Varies	21	3		1	6	8	7 1/8	4 3/4	9 1/2	5 3/4	17 1/2	9 1/4	7	12			36									Varies
5	Varies	21	3		1	6	8	7 1/8	4 3/4	9 1/2	5 3/4	17 1/2	9 1/4	7	12			36									Varies

STANDARD SIGN
M1-94

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

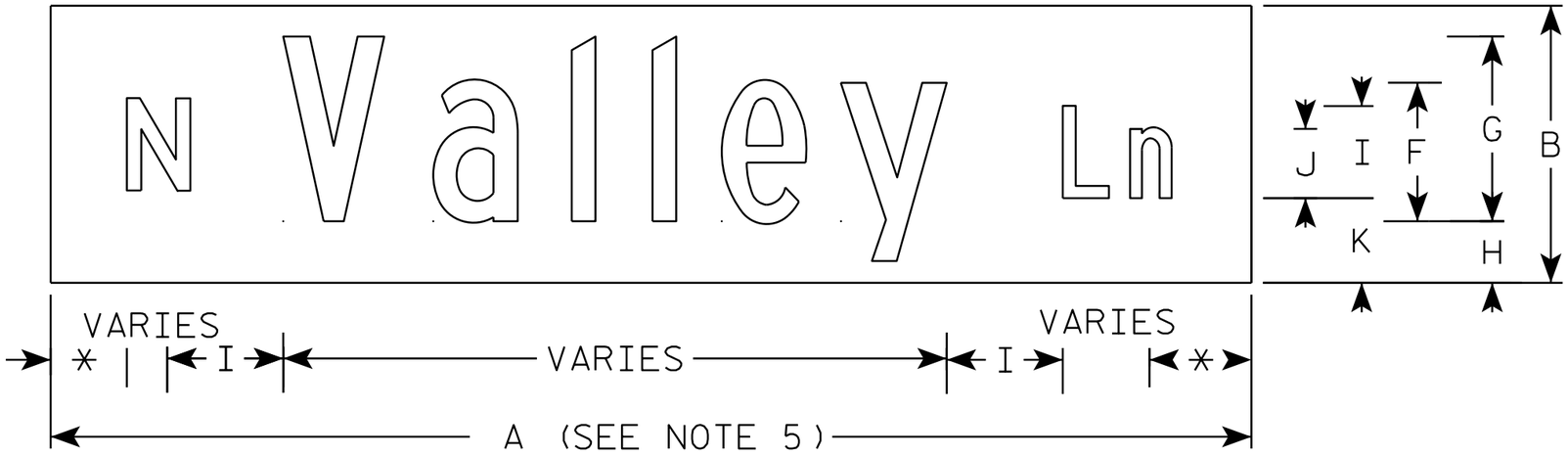
DATE 12/16/10 PLATE NO. M1-94.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 524	E

Typical for Overhead Street Name

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
3. Message Series - D for Size 1 except when over 108" than Series C
   C for Size 2 except when over 108" use Series B
4. Base material shall be 0.125 aluminmum
5. Width may be no more than 108"



M1-94H

*Minimum dimension is 6 inch for Size 2 and 4 inch for Size 1

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	Varies	18				6	8	5 5/8	4	3	6 5/8																Varies
2	Varies	18				9	12	4	6	4 1/2	5 1/2																Varies
3																											
4																											
5																											

STANDARD SIGN
M1-94H

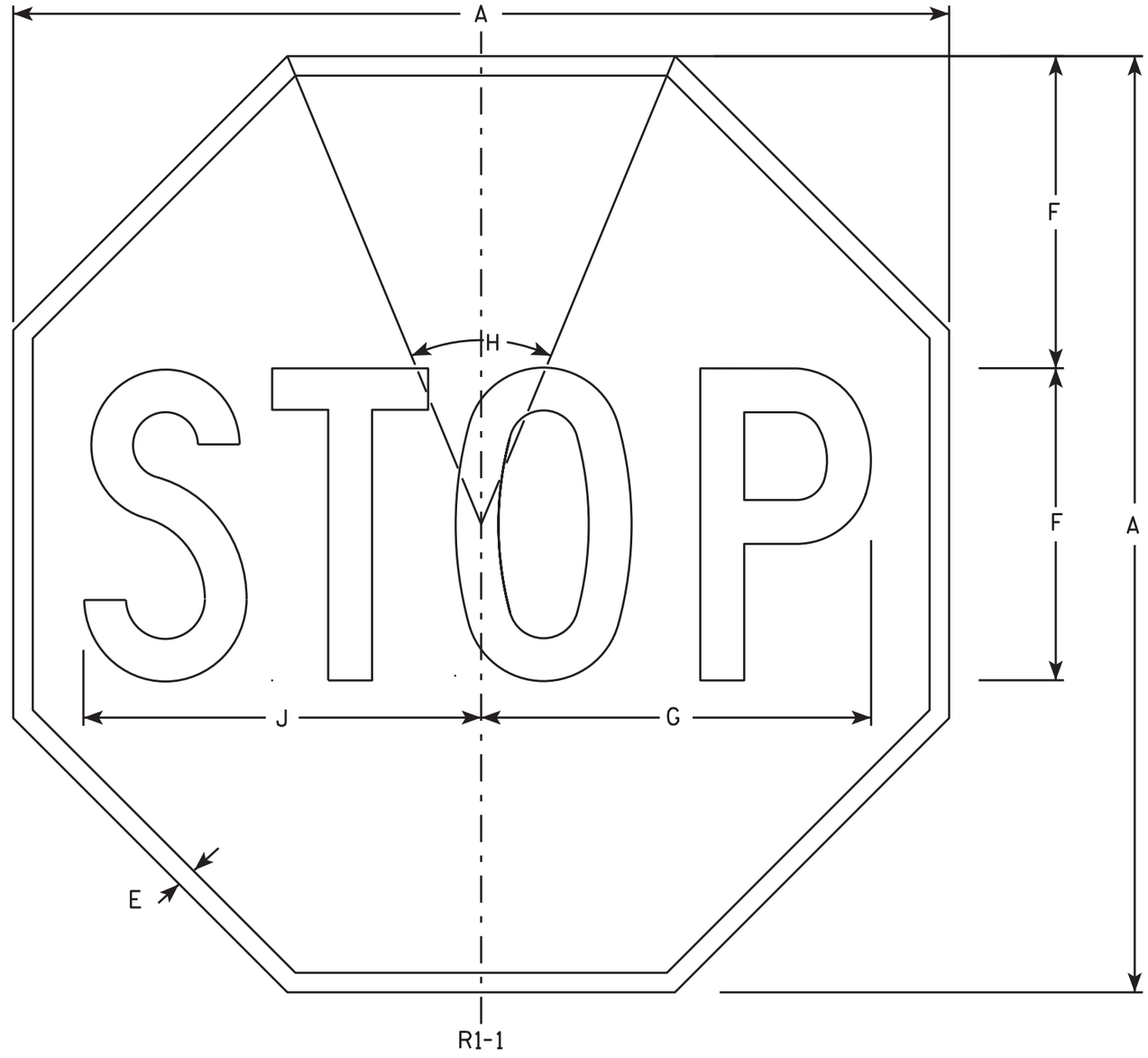
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 10/16/14 PLATE M1-94H.4

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W194H.DGN PLOT DATE : 16-OCT-2014 14:51 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 9.631919:1.000000 WISDOT/CADDS SHEET 42



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

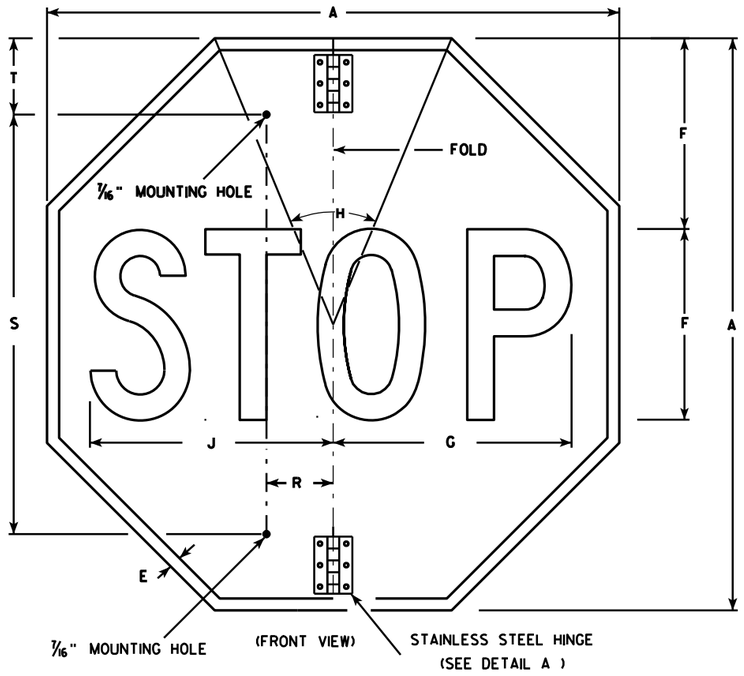
STANDARD SIGN
R1-1

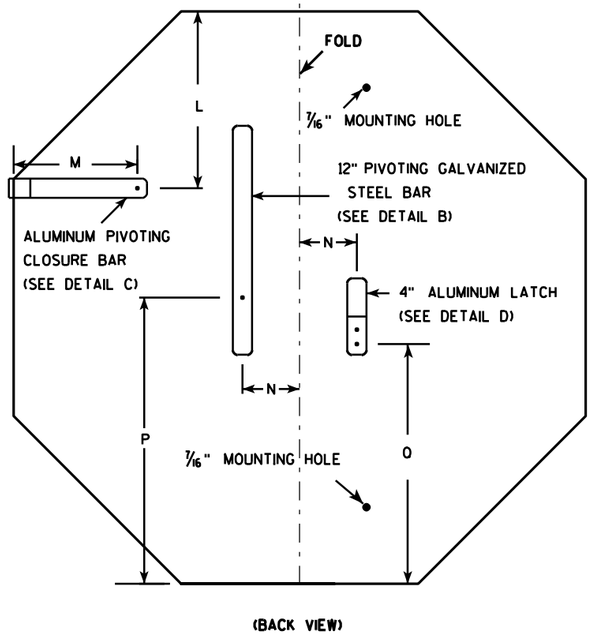
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.12

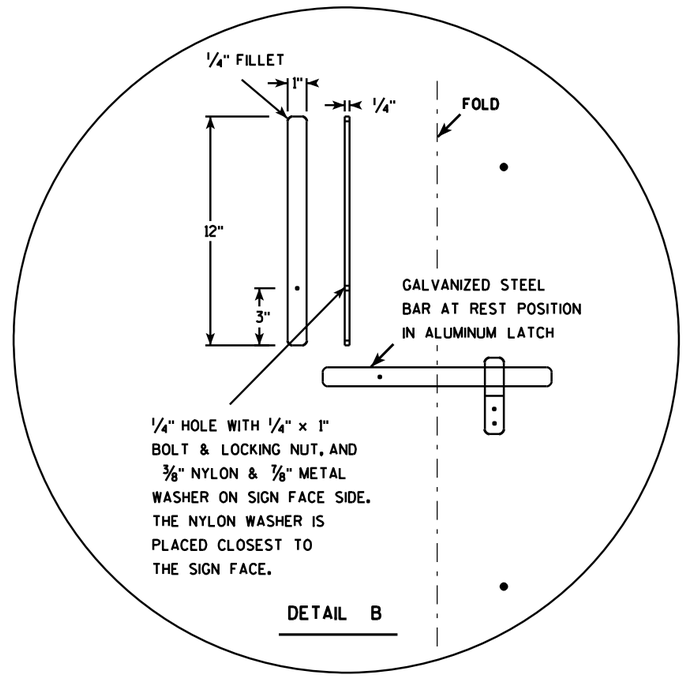
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



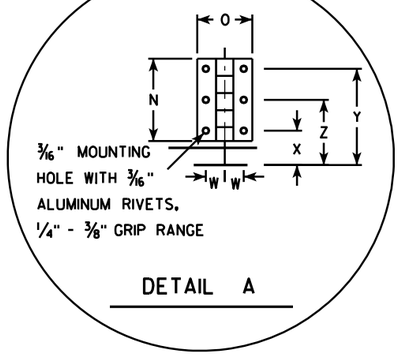


NOTES

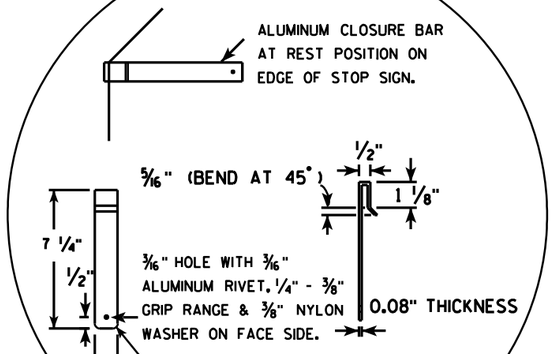
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



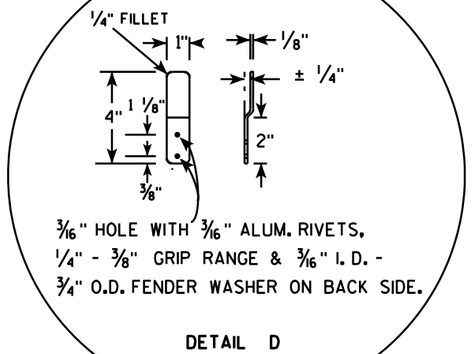
DETAIL B



DETAIL A



DETAIL C



DETAIL D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

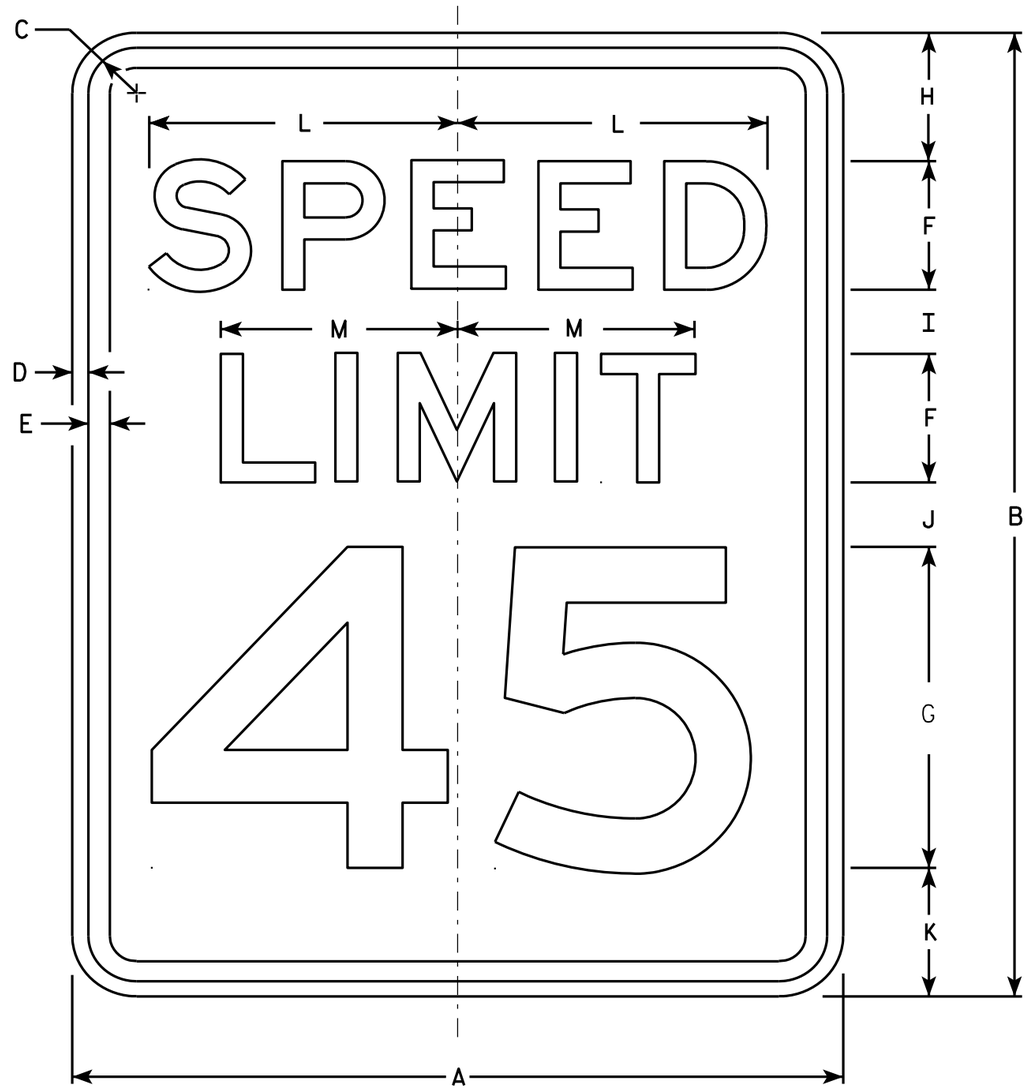
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 527	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

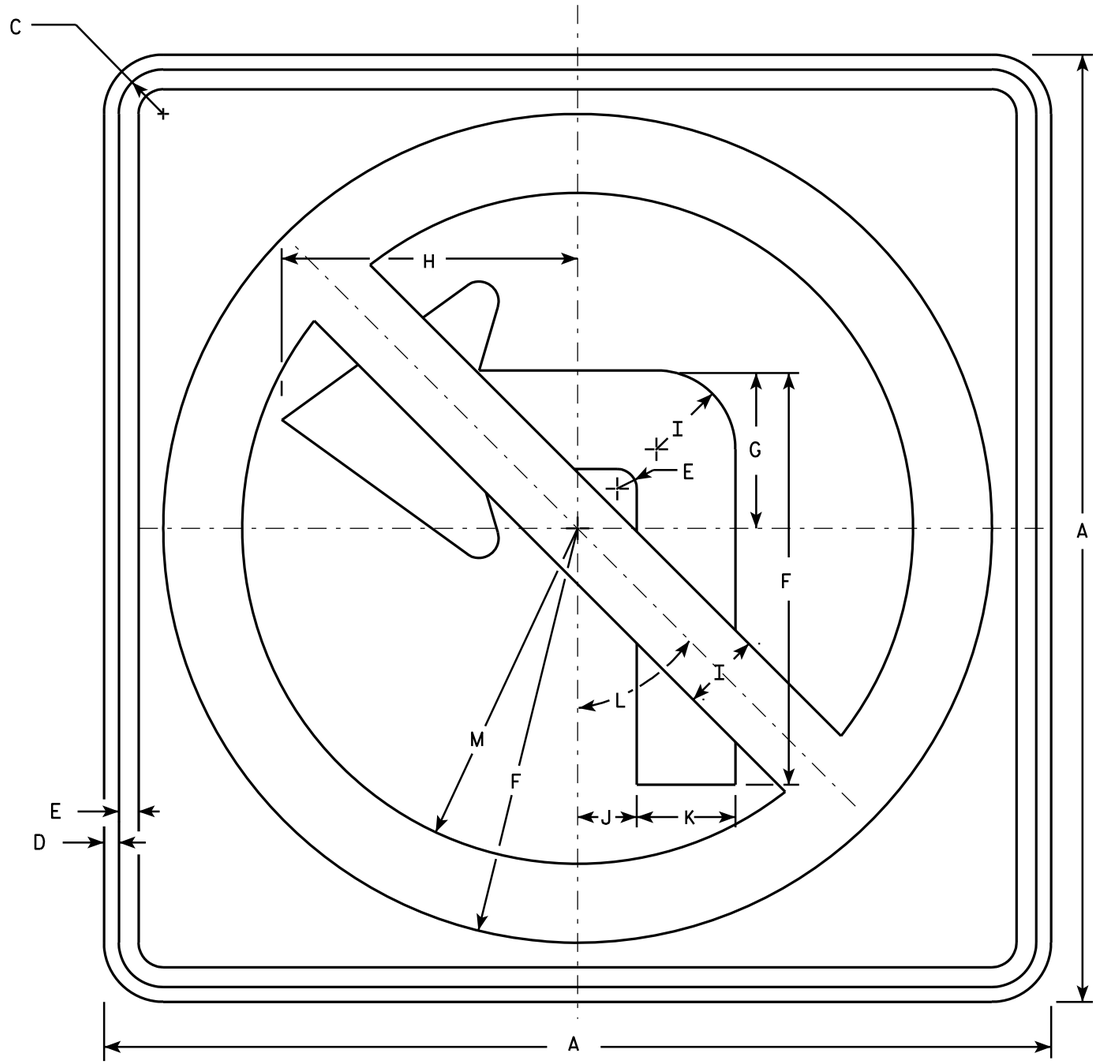
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

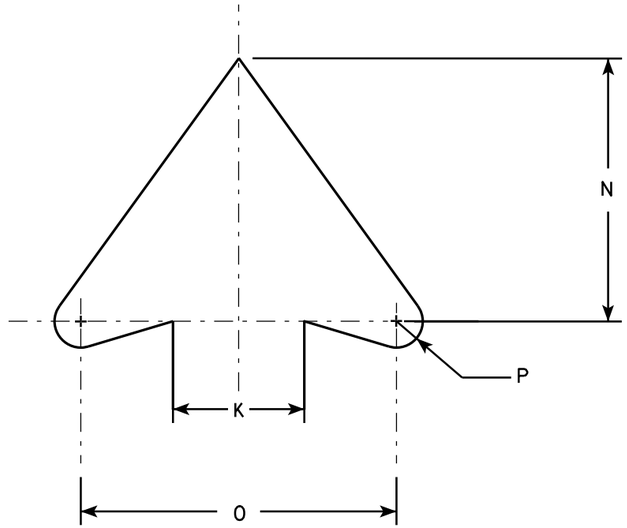
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 528 | E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

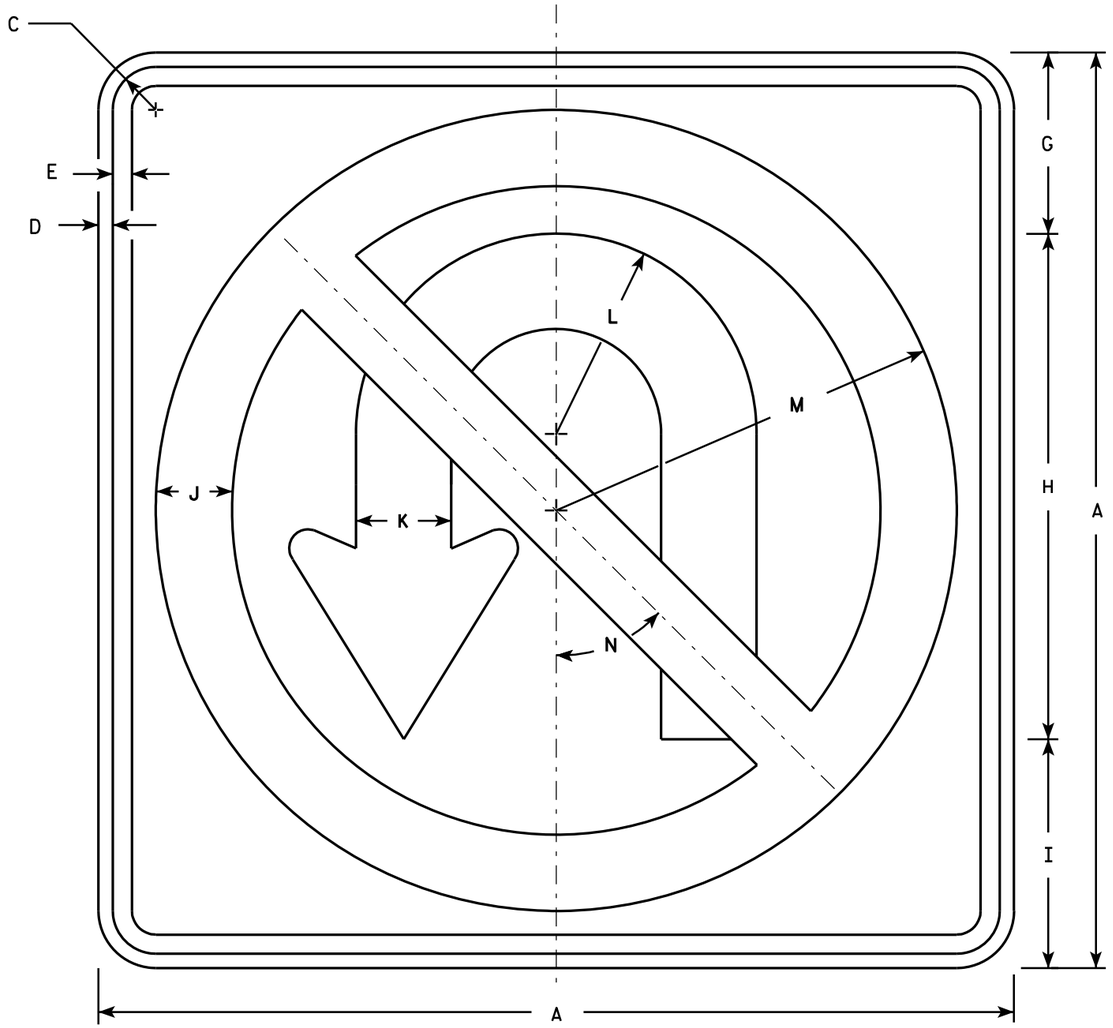
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

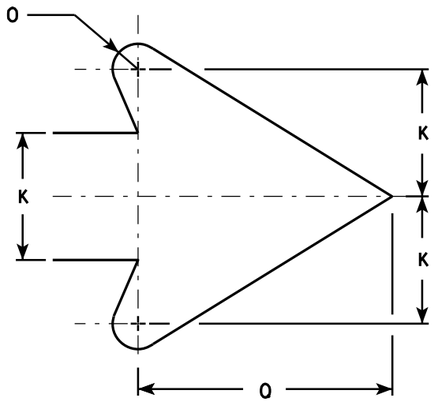
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 529	E



R3-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
3	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
4	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
5	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0

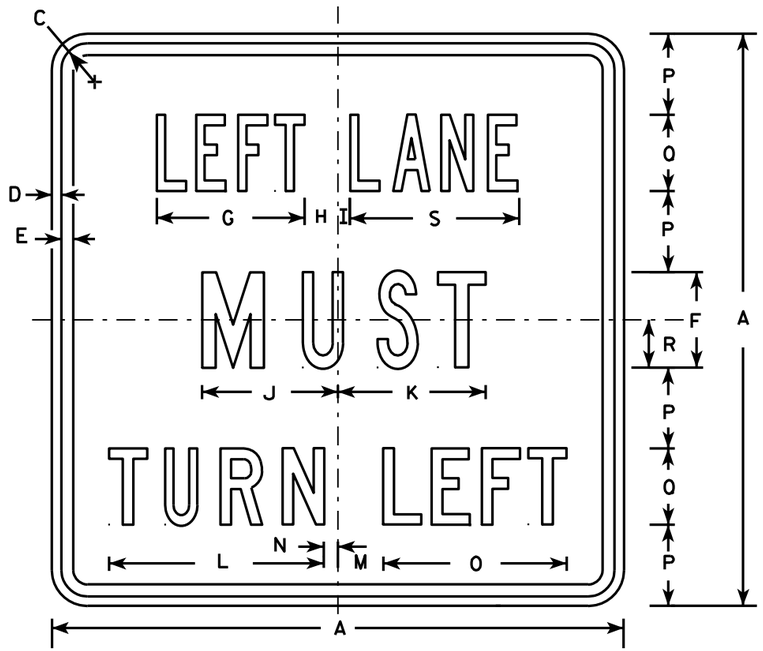
STANDARD SIGN
R3-4

WISCONSIN DEPT OF TRANSPORTATION

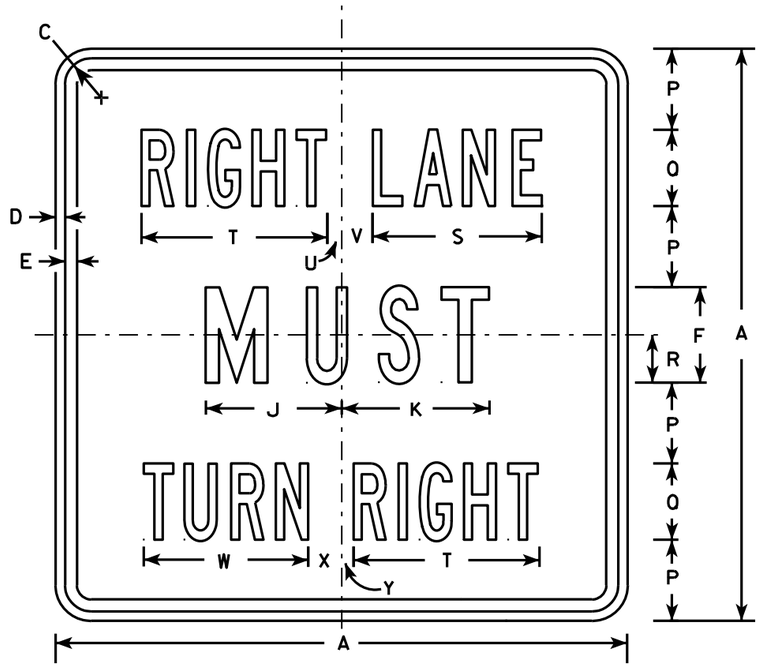
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-4.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 530	E



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

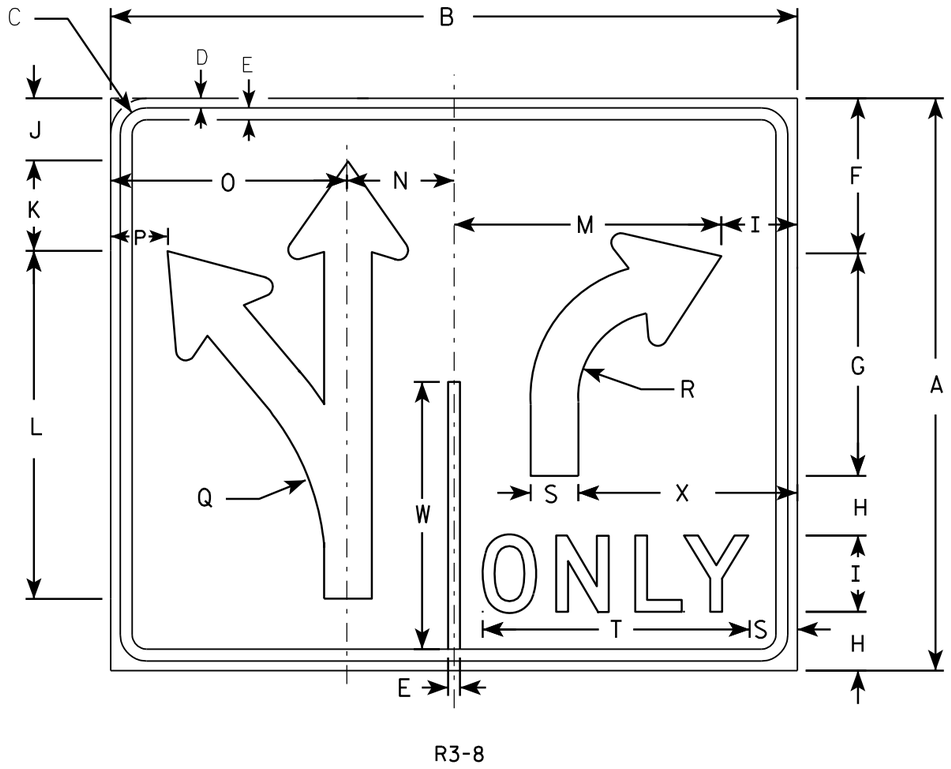
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

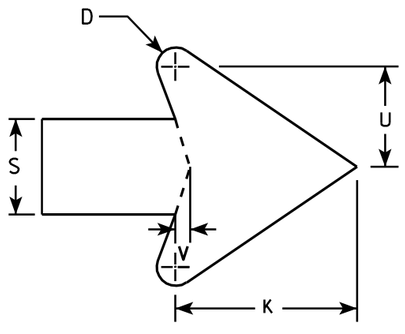
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 531 | E



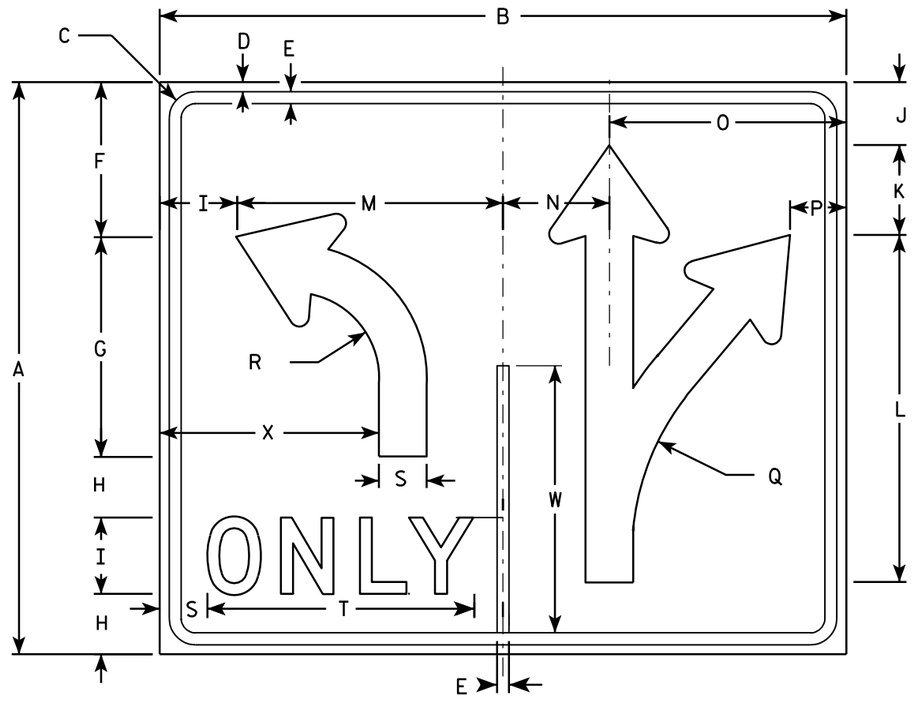
R3-8



ARROW DETAIL

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-8A

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0

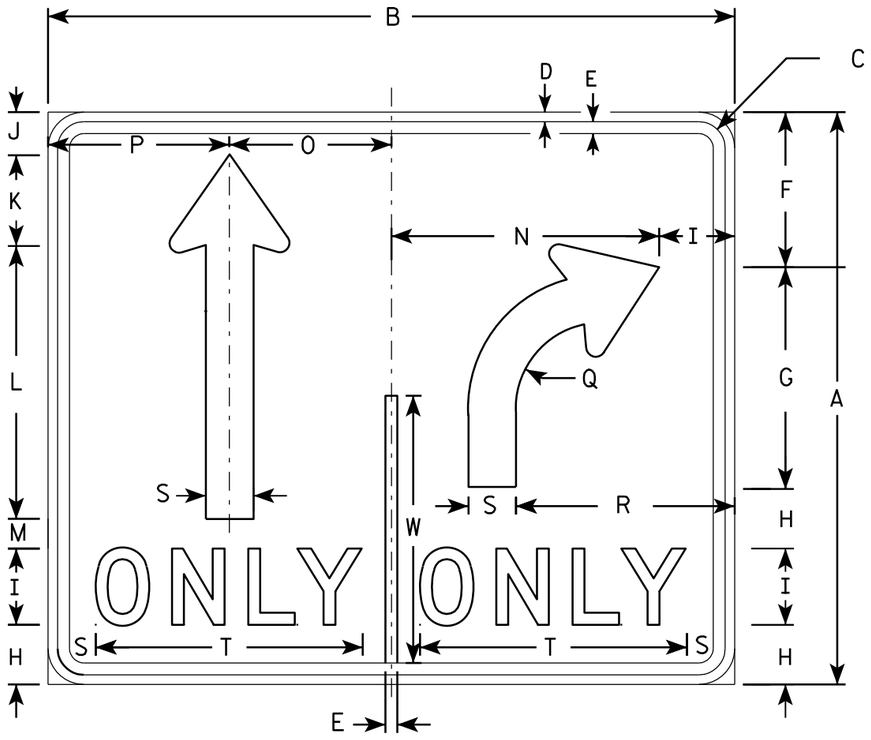
STANDARD SIGN
R3-8 & R3-8A

WISCONSIN DEPT OF TRANSPORTATION

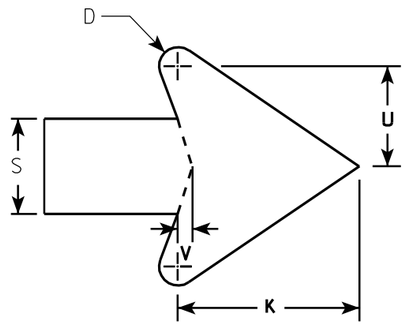
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 532	E



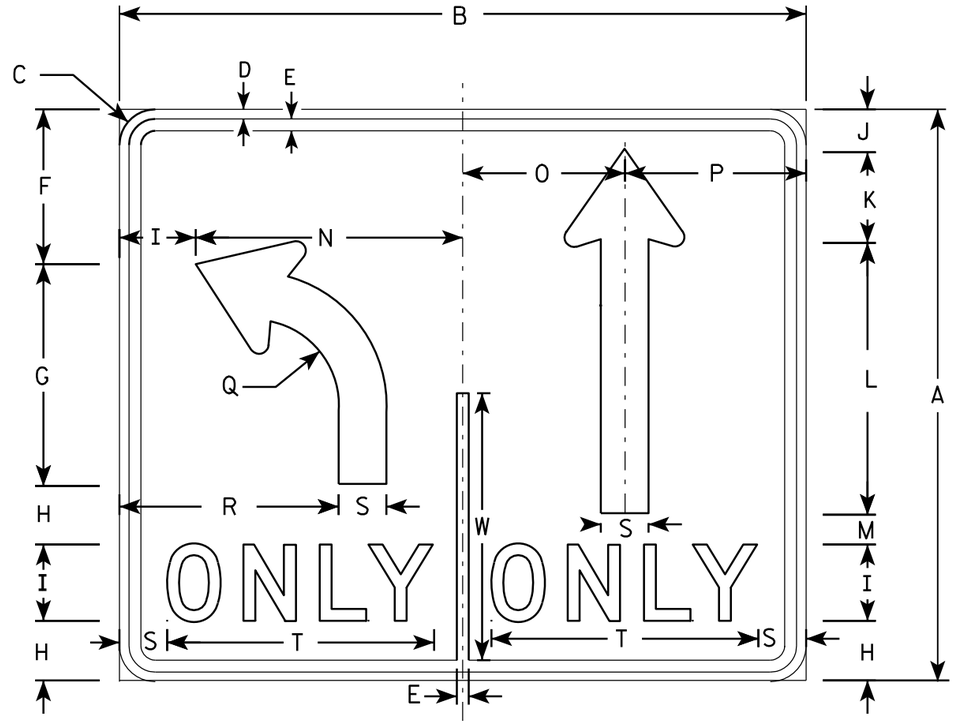
R3-8D



ARROW DETAIL

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-8E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	14	8 1/2	9 1/2	4 1/2	11 1/2	2 1/2	14	2 5/8	3/8	14				7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	14	8 1/2	9 1/2	4 1/2	11 1/2	2 1/2	14	2 5/8	3/8	14				7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	3 1/2	7 1/8	21 1/2	4 3/4	21	12 3/4	14 1/4	7 1/4	17 1/8	3 3/4	20 5/8	4	5/8	22 3/8				18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	3 1/2	7 1/8	21 1/2	4 3/4	21	12 3/4	14 1/4	7 1/4	17 1/8	3 3/4	20 5/8	4	5/8	22 3/8				18.0

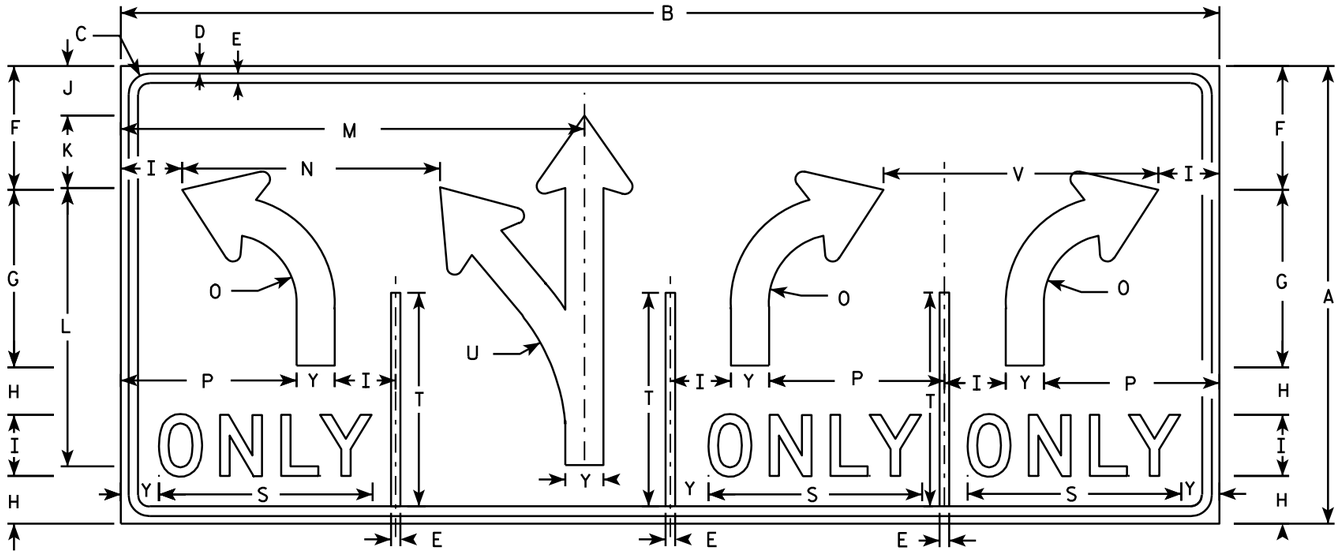
STANDARD SIGN
R3-8D & R3-8E

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8D.2

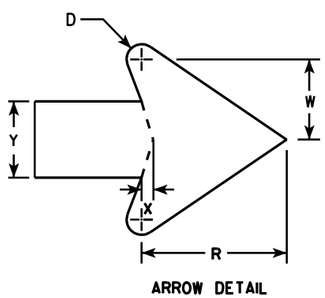
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 533	E



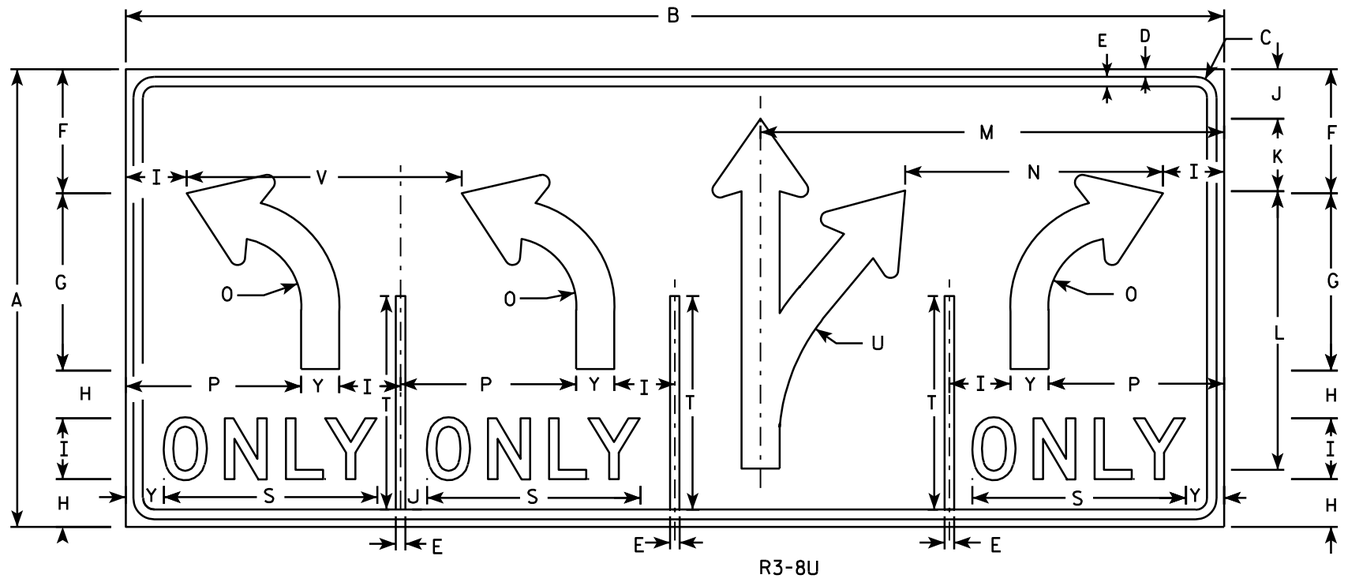
R3-8T

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL



R3-8U

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	72	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	30 3/8	16 7/8	4 1/2	11 1/2		4 3/4	14	14	13 1/4	18	2 5/8	3/8	2 1/2		15.0
2M	30	72	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	30 3/8	16 7/8	4 1/2	11 1/2		4 3/4	14	14	13 1/4	18	2 5/8	3/8	2 1/2		15.0
3																											
4	48	108	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	8 1/4	7 5/8	29 1/4	45 1/2	25 3/8	6 3/4	17 1/4		7 1/8	20 5/8	22 3/8	19 7/8	27	4	5/8	4		36.0
5	48	108	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	8 1/4	7 5/8	29 1/4	45 1/2	25 3/8	6 3/4	17 1/4		7 1/8	20 5/8	22 3/8	19 7/8	27	4	5/8	4		36.0

STANDARD SIGN
R3-8T & R3-8U

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

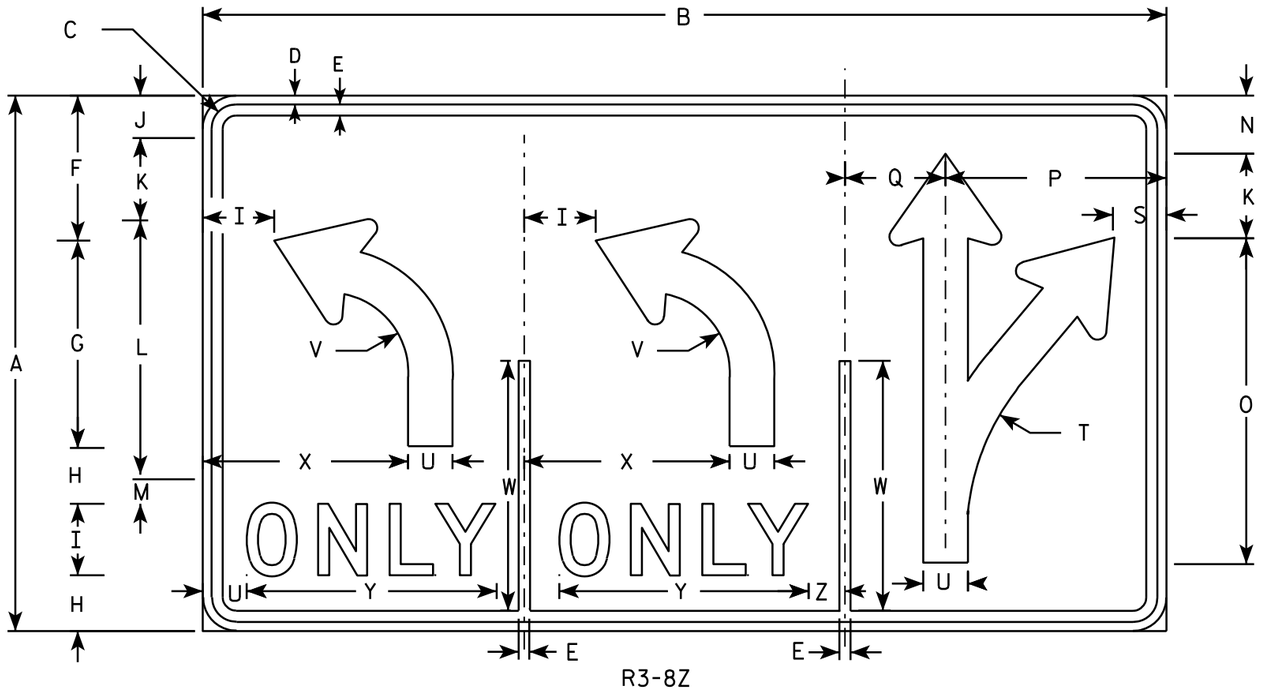
DATE 3/24/2011 PLATE NO. R3-8T.4

PROJECT NO:

SHEET NO: 534 E

7

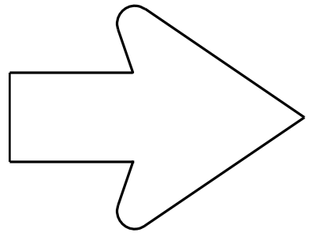
7



R3-8Z

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SEE R3-8 FOR ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	3 1/4	18 1/4	12 3/8	5 5/8		3	13 1/4	2 1/2	4 1/2	14	11 1/2	14	2	11.25
2M	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	3 1/4	18 1/4	12 3/8	5 5/8		3	13 1/4	2 1/2	4 1/2	14	11 1/2	14	2	11.25
3																											
4	48	84	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	3 1/2	7	29 1/8	2 7/8	5 1/4	29 1/8	18 5/8	8 3/4		4 3/8	21 7/8	3 3/4	7 1/4	22 3/8	17 1/4	20 5/8	3 1/4	28.0
5	48	84	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	3 1/2	7	29 1/8	2 7/8	5 1/4	29 1/8	18 5/8	8 3/4		4 3/8	21 7/8	3 3/4	7 1/4	22 3/8	17 1/4	20 5/8	3 1/4	28.0

STANDARD SIGN
R3-8Z

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-8Z.2

PROJECT NO:

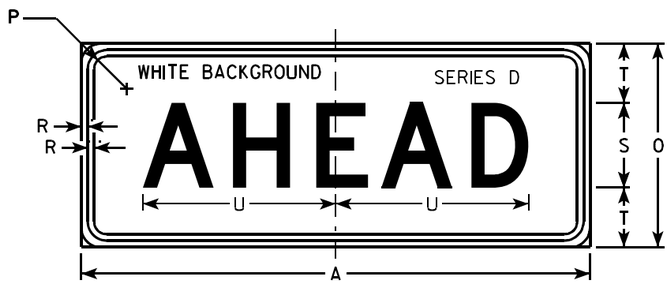
SHEET NO: 535 E



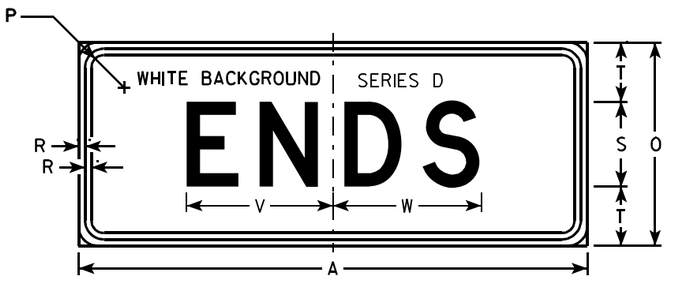
R3-17

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - AS SHOWN
   Message - BLACK
3. Message Series - C or as noted on the Signs.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-17ap



R3-17bp

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	R3-17 Area sq. ft.	R3-17ap Area sq. ft.	R3-17bp Area sq. ft.
1																													
2S	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
2M	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
3																													
4																													
5																													

STANDARD SIGN
R3-17 & R3-17a&bp

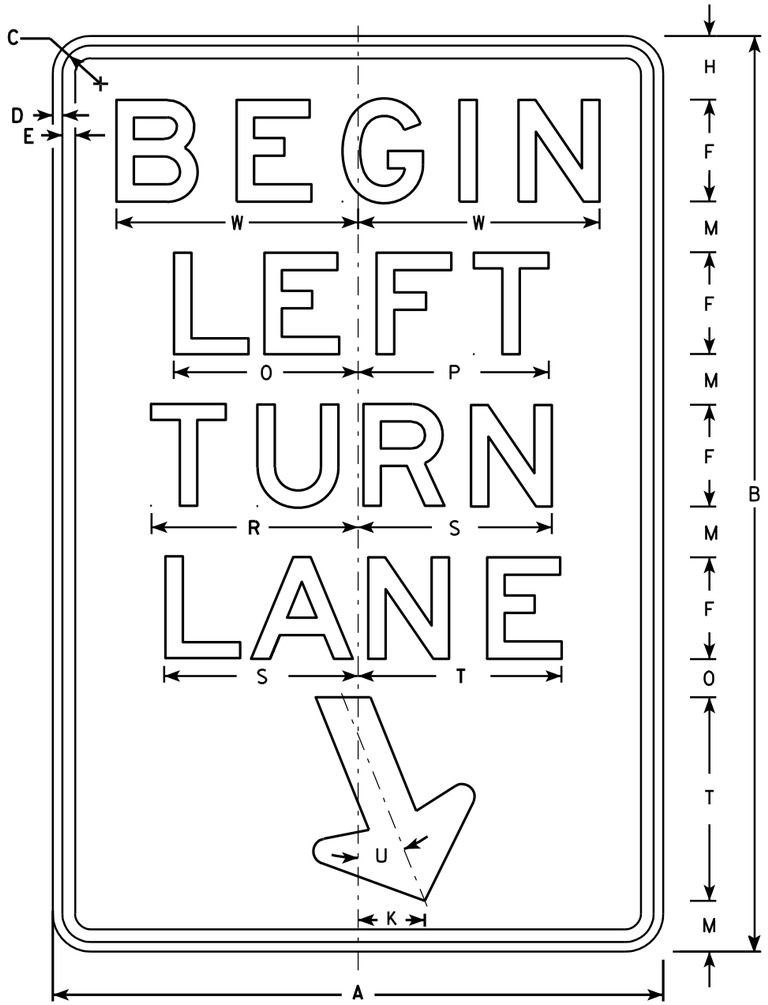
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/12/2011 PLATE NO. R3-17.2

PROJECT NO:

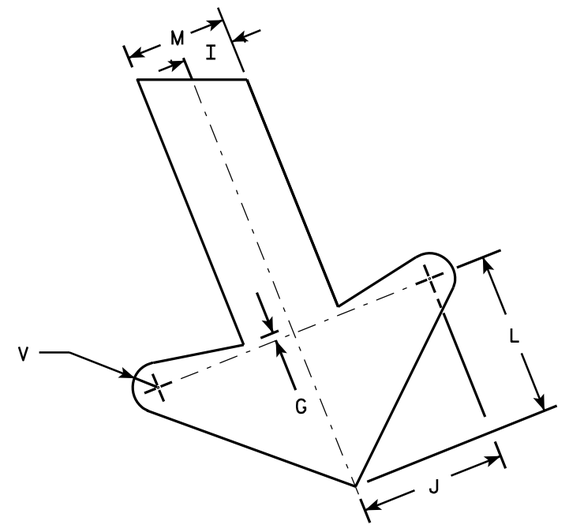
SHEET NO: 536 E



R3-20L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

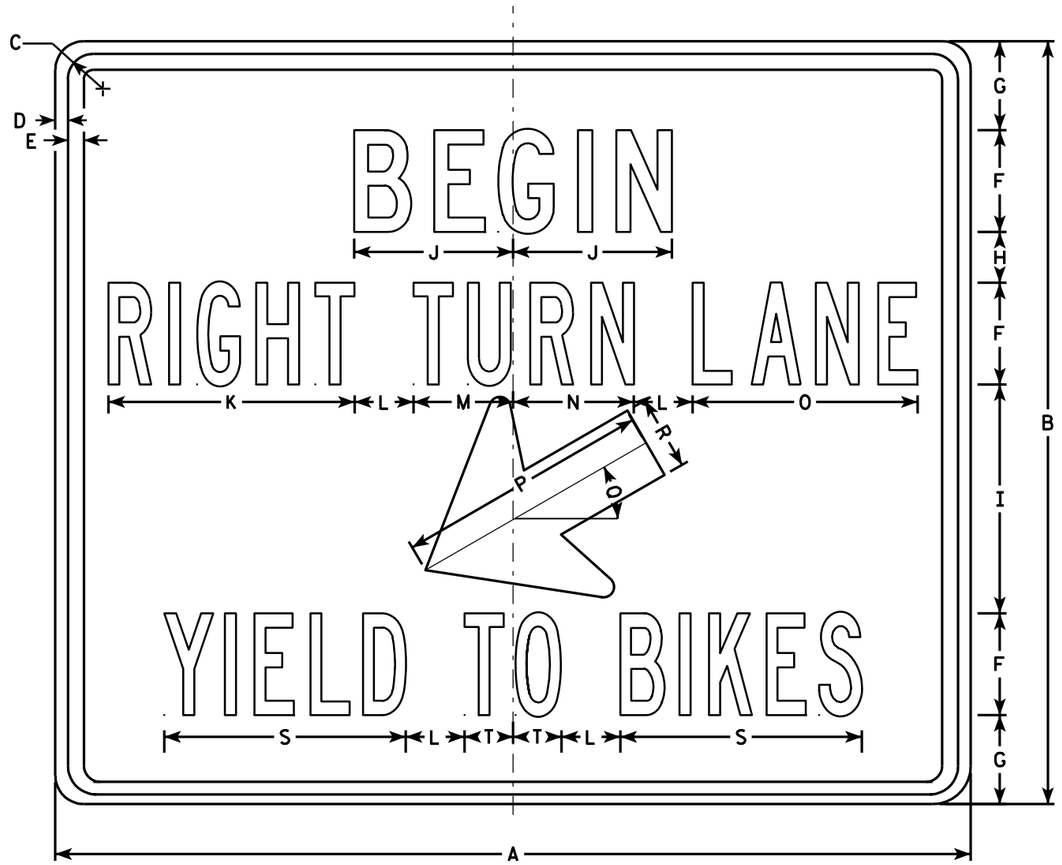
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 537 | E



R4-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series C
   Lines 2 & 3 are Series B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	30	1 3/8	1/2	5/8	4	3 1/2	2	9	6 1/4	9 3/4	2 3/8	3 7/8	4 3/4	8 7/8	10	30°	2 7/8	9 1/2	1 7/8							7.5
2M	36	30	1 3/8	1/2	5/8	4	3 1/2	2	9	6 1/4	9 3/4	2 3/8	3 7/8	4 3/4	8 7/8	10	30°	2 7/8	9 1/2	1 7/8							7.5
3																											
4																											
5																											

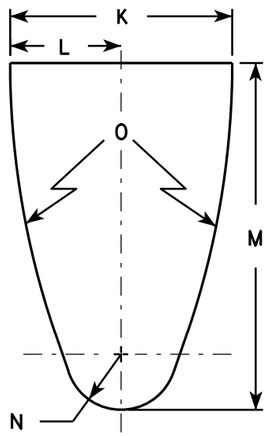
STANDARD SIGN
R4-4

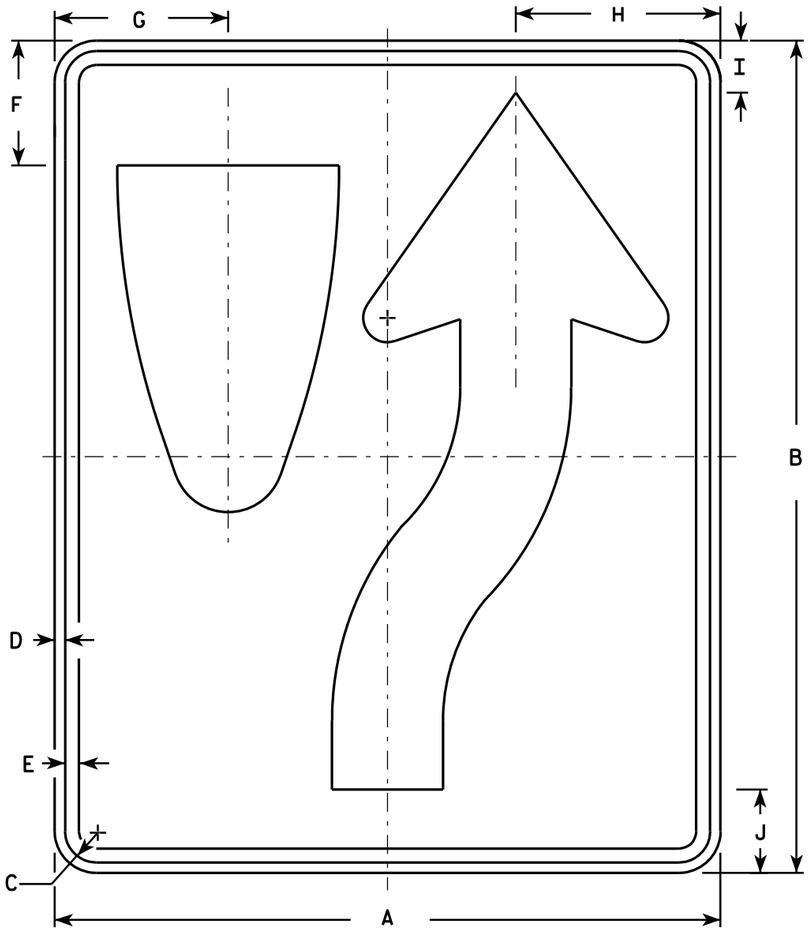
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-4.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 538 | E

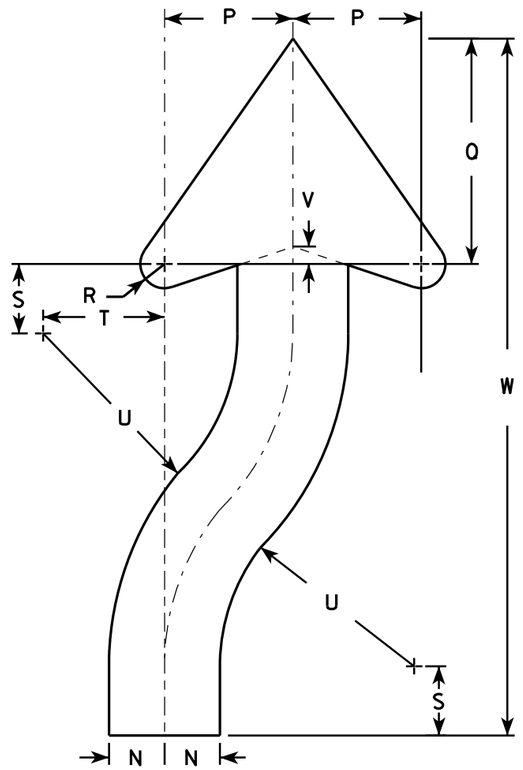




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

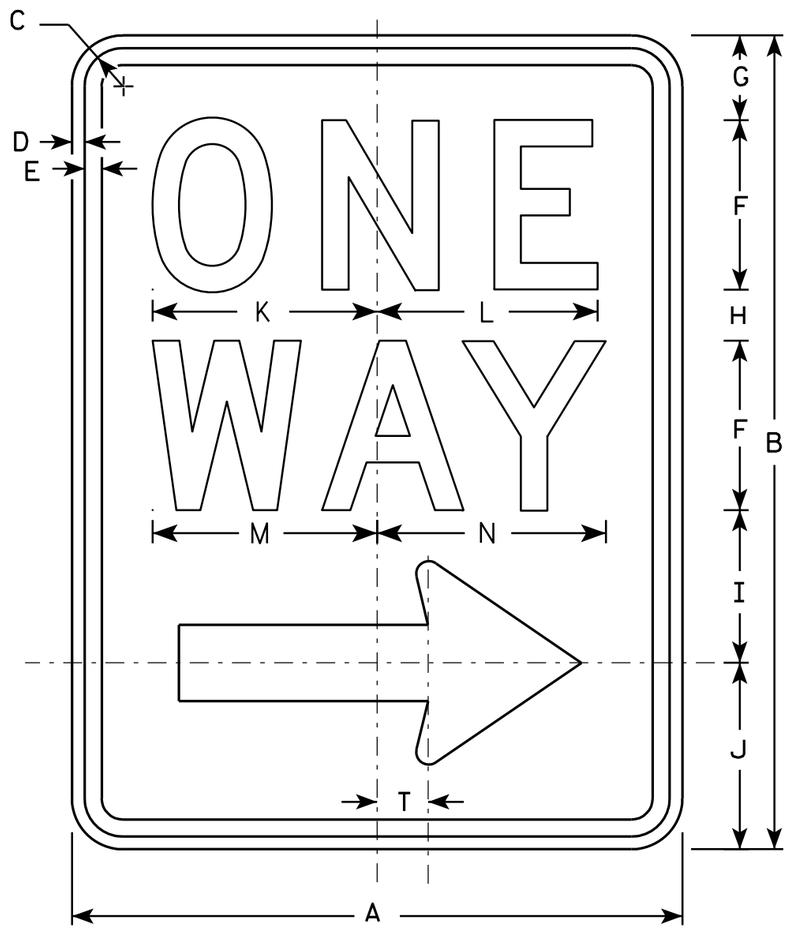
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

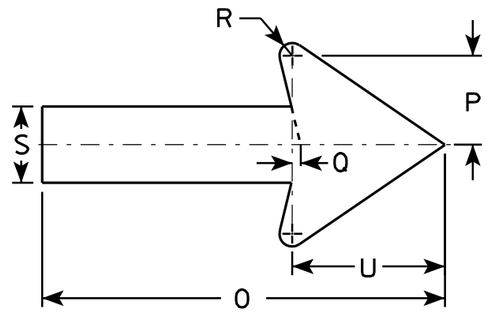
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 539	E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

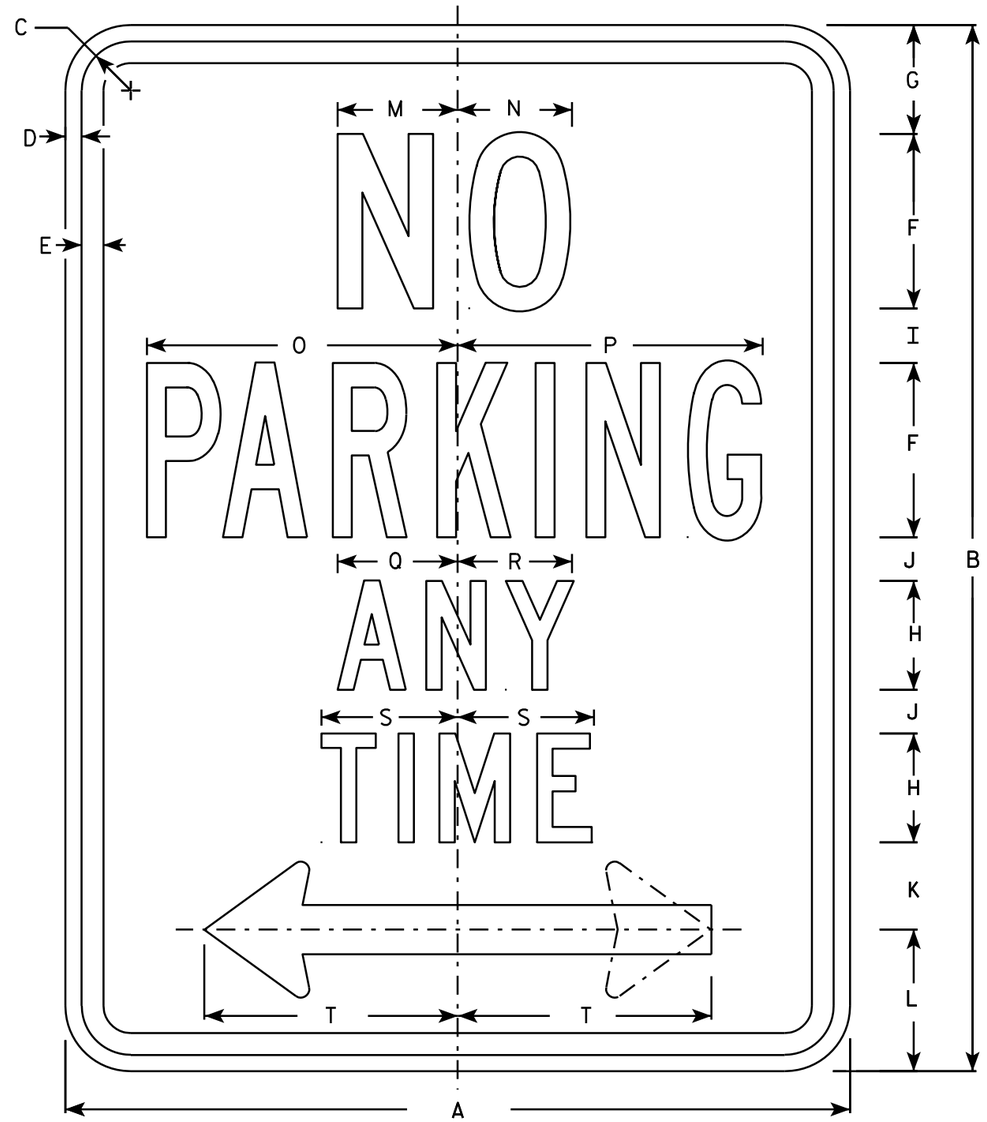
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

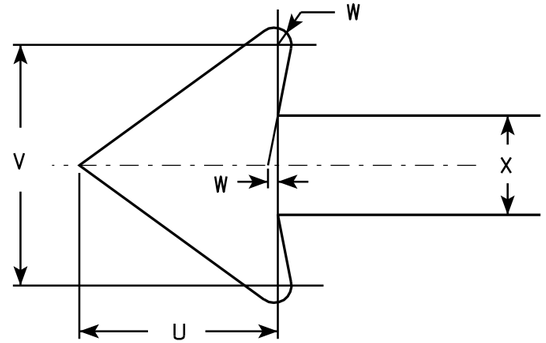
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 540	E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

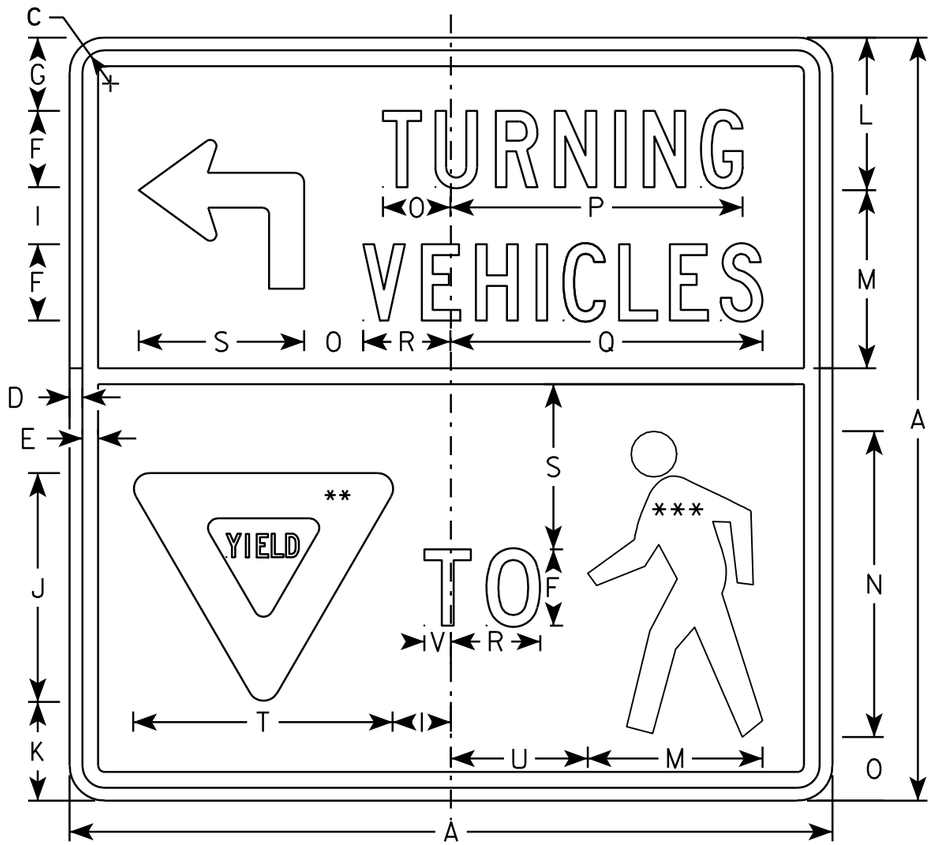
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 541 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

WISDOT/CADDS SHEET 42



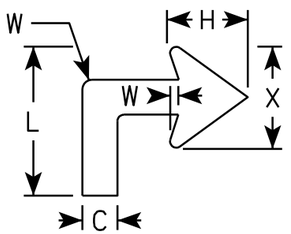
R10-15L

NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Half- Yellow
   Bottom Half - WHITE
   Message - BLACK
   YIELD SYMBOL - RED ON WHITE
   PED SYMBOL - BLACK ON WHITE
3. Message Series - C except "TO" Series D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

** INSERT R1-2 AND SIZE TO FIT

*** INSERT W11-2 AND SIZE TO FIT



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 3/8	1/2	5/8	3	2 7/8	3	2 1/4	9	3 7/8	6	7	12	2 1/2	11 1/2	12 1/4	3 1/2	6 1/2	10 1/4	5 3/8	1	3/8	4			6.25
2M	30		1 3/8	1/2	5/8	3	2 7/8	3	2 1/4	9	3 7/8	6	7	12	2 1/2	11 1/2	12 1/4	3 1/2	6 1/2	10 1/4	5 3/8	1	3/8	4			6.25
3																											
4																											
5																											

STANDARD SIGN
R10-15L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/2/10 PLATE NO. R10-15L.1

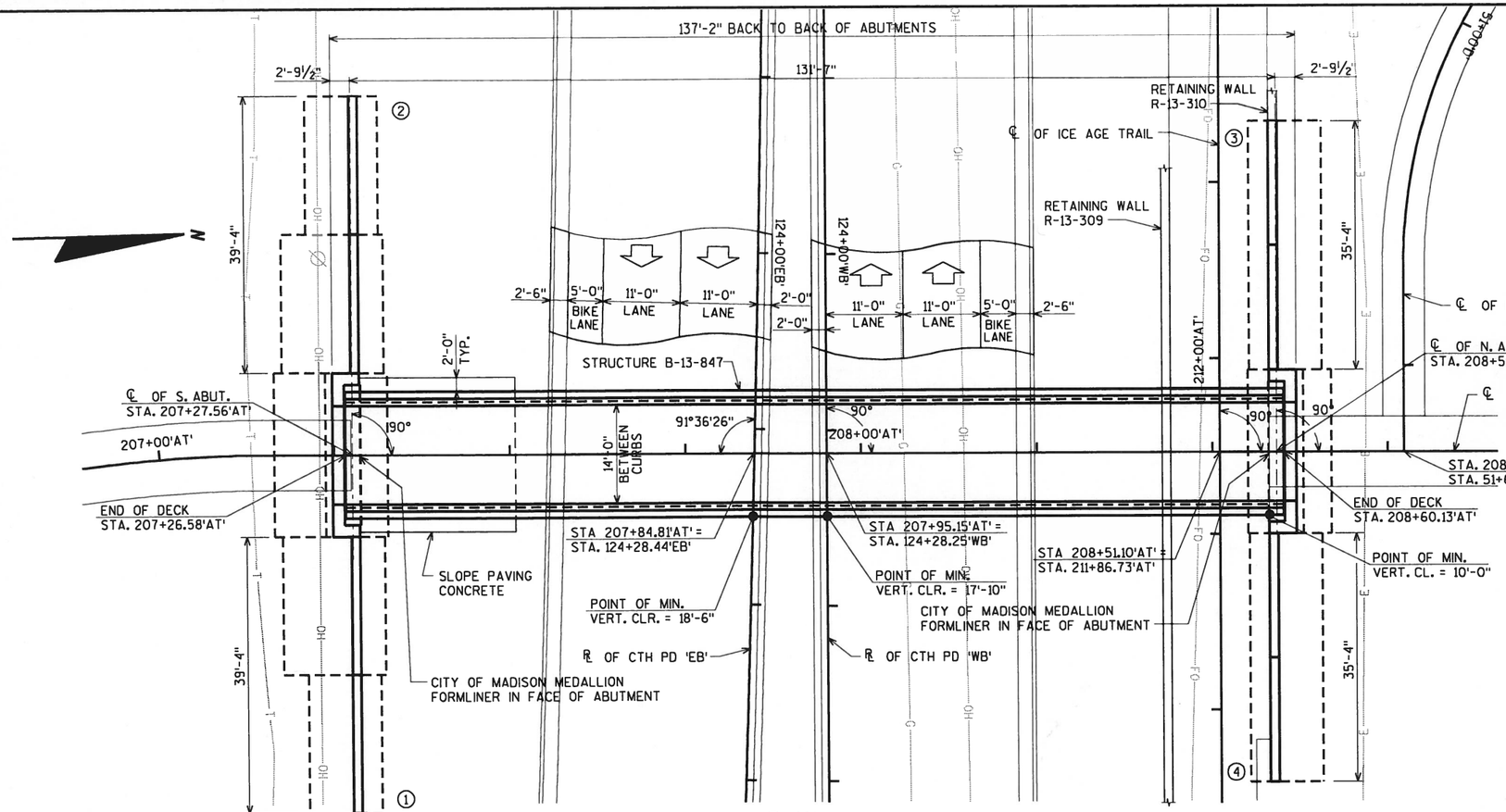
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 542	E

$PRFNAME$
U:\42-0976.00 - Dane Co, Madison, CTH PD\BRIDGE\420976 B-13-847 gp.dgn

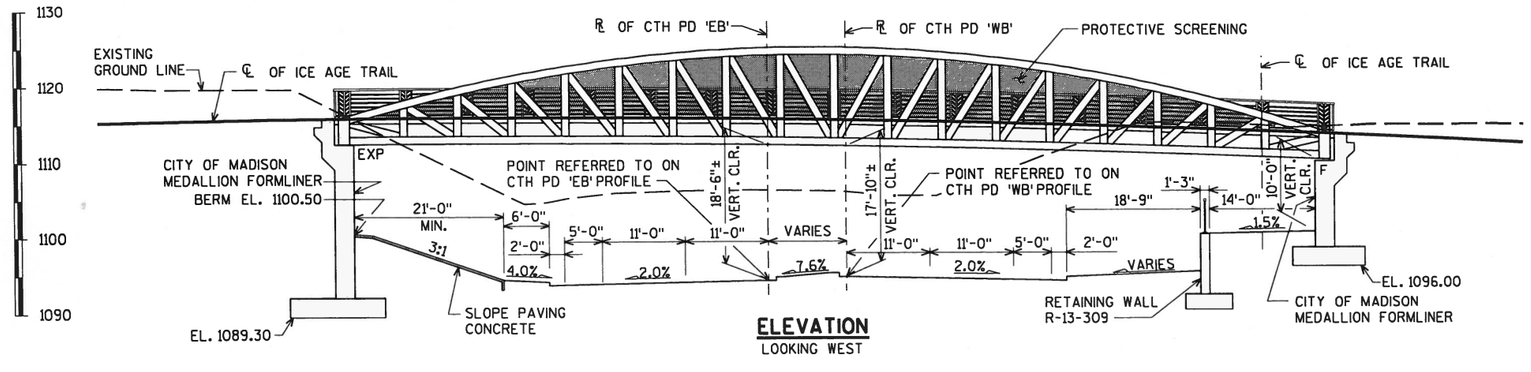
DATE:
DATE:
DATE:
CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

STATE PROJECT NUMBER

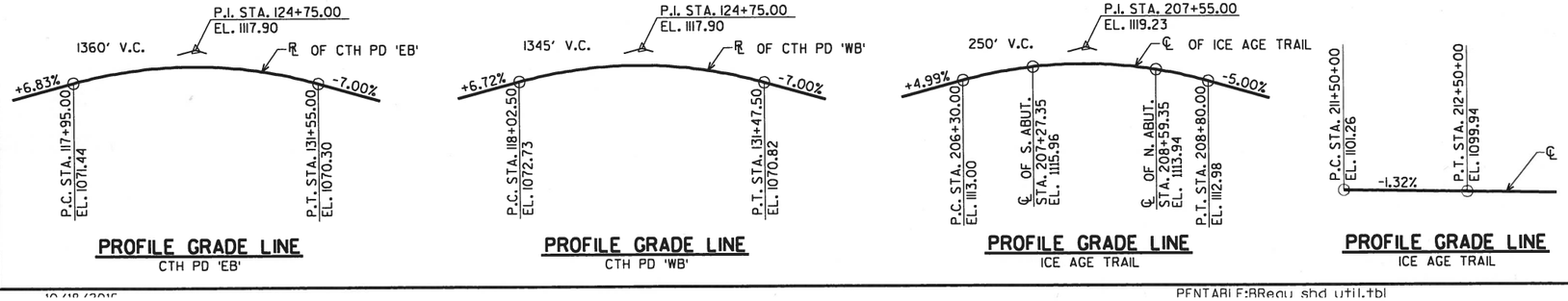
5992-09-31



PLAN
SINGLE SPAN PREFABRICATED STEEL TRUSS



ELEVATION
LOOKING WEST



PROFILE GRADE LINE
CTH PD 'EB'

PROFILE GRADE LINE
CTH PD 'WB'

PROFILE GRADE LINE
ICE AGE TRAIL

PROFILE GRADE LINE
ICE AGE TRAIL

○ DENOTES WING NUMBER.

LIST OF DRAWINGS

1. GENERAL PLAN
2. TYPICAL SECTION, QUANTITIES, AND NOTES
3. SUBSURFACE EXPLORATION
4. SOUTH ABUTMENT ELEVATION
5. SOUTH ABUTMENT PLAN
6. SOUTH ABUTMENT WING 1 DETAILS
7. SOUTH ABUTMENT WING 2 DETAILS
8. SOUTH ABUTMENT DETAILS & BILL OF BARS
9. NORTH ABUTMENT ELEVATION
10. NORTH ABUTMENT PLAN
11. NORTH ABUTMENT WING 3 DETAILS
12. NORTH ABUTMENT WING 4 DETAILS
13. NORTH ABUTMENT DETAILS & BILL OF BARS
14. EXPANSION JOINT DETAILS
15. RAILING DETAIL
16. RAILING PLAN SOUTH ABUT. AND SUPERSTRUCTURE
17. RAILING PLAN NORTH ABUTMENT
18. RUSTICATION DETAILS MEDALLION
19. SLOPE PAVING

DESIGN DATA

LIVE LOAD:
90 psf PEDESTRIAN LOAD
20,000 lb. VEHICLE LOAD (H-10)

WIND LOAD:
35 psf SUPERSTRUCTURE
20 psf UPLIFT SUPERSTRUCTURE

MATERIAL PROPERTIES:

CONCRETE MASONRY	SUPERSTRUCTURE f'c	=	4,000 p.s.i.
	ALL OTHER f'c	=	3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60)	fy	=	60,000 p.s.i.
HIGH STRENGTH STRUCTURAL STEEL A709	fy	=	50 k.s.i.
STRUCTURAL CARBON STEEL ASTM A36	fy	=	36 k.s.i.

FOUNDATION DATA:

ABUTMENTS WITH SPREAD FOOTINGS TO BE SUPPORTED ON SOUND ROCK WITH A REQUIRED FACTORED BEARING RESISTANCE OF 10,000 psf. A GEOTECHNICAL ENGINEER WILL DETERMINE THE FACTORED BEARING RESISTANCE BY VISUAL INSPECTION PRIOR TO CONSTRUCTION OF THE ABUTMENT FOOTING.

TRAFFIC DATA (CTH PD):
A.D.T. = 13,500 (2017)
A.D.T. = 17,500 (2037)
R.D.S. = 45 M.P.H.

WISCONSIN
DANIEL N. SYDOW
E-38363
WI
PROFESSIONAL ENGINEER
10/18/2016

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
DAN SYDOW
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 11/17/16
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-13-847

ICE AGE TRAIL OVER CTH PD

COUNTY DANE ~~TOWN~~/CITY/~~VILLAGE~~ MADISON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	AEB	DESIGN CK'D.	JWZ	DRAWN BY	JWZ	PLANS CK'D.	DNS

GENERAL PLAN

SHEET 1 OF 19
543

8

8

STATE PROJECT NUMBER

5992-09-31

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	N. ABUT.	SUPER.	TOTAL
	206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-13-847	LS	-----	-----	-----	1
	210.1500	BACKFILL STRUCTURE TYPE A	TON	1,470	550	-----	2,020
	502.0100	CONCRETE MASONRY BRIDGES	CY	274	176	-----	450
	502.3100	EXPANSION DEVICE B-13-847	LS	-----	-----	-----	1
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	-----	-----	255	255
	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	13,440	7,430	-----	20,870
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	22,070	12,350	-----	34,420
①	506.8005.S	PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE, B-13-847, LRFD	LS	-----	-----	-----	1
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	4	4	-----	8
②	517.1000	PAINTING EPOXY SYSTEM STEEL TRUSS, B-13-847	LS	-----	-----	-----	1
③	517.1015.S	CONCRETE STAINING MULTI-COLOR B-13-847	SF	1,830	1,190	-----	3,020
	517.1050.S	ARCHITECTURAL SURFACE TREATMENT B-13-847	SF	1,520	920	-----	2,440
	604.0400	SLOPE PAVING CONCRETE	SY	56	-----	-----	56
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	170	105	-----	275
	SPV.0060.016	DECORATIVE MEDALLION	EACH	1	1	-----	2
	SPV.0060.017	MEDALLION CONCRETE STAINING MULTI-COLOR	EACH	1	1	-----	2
②	SPV.0090.005	RAILING STEEL PEDESTRIAN, B-13-847	LF	92	84	274	450
		NON-BID ITEMS					
		FILLER	SIZE	-----	-----	-----	½" & ¾"

① ITEM INCLUDES DESIGN, FURNISHING, AND INSTALLING THE BRIDGE TRUSS, THE BEARINGS, THE CONCRETE DECK, CURBS, AND REINFORCEMENT, THE PROTECTIVE SCREENING, THE GALVANIZED JOINTS COVER PLATES AND ANCHOR BOLTS, NUTS, & WASHERS PER TRUSS MANUFACTURER. TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR DETERMINING ANCHOR BOLT SIZE AND LOCATION.

② PAINT COLOR TO BE KENDAL GREEN (SW6467).

③ BASE COLOR TO BE INTERACTIVE CREAM (SW6113) AND TOTALLY TAN (SW6115) WITH PEARL GRAY (FEDERAL COLOR 26622) MORTAR LINES.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

AT BACKFACE OF STRUCTURES ALL VOLUME WHICH CANNOT BE PLACED BEFORE STRUCTURE CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.

PREFABRICATED STEEL TRUSS NOTES

THE APPEARANCE OF THE TRUSS SHALL RESEMBLE WHAT IS SHOWN IN THE ELEVATION VIEW ON SHEET 1. NUMBER OF PANELS MAY DIFFER FROM WHAT IS SHOWN.

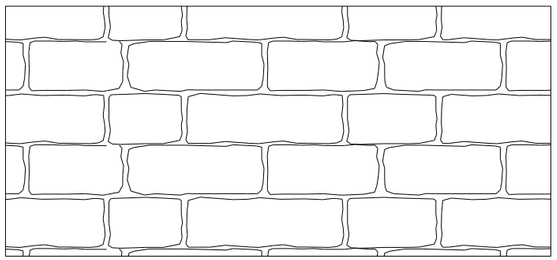
THE TRUSS SHALL BE CAMBERED AN AMOUNT EQUAL TO THE PROFILE GRADE LINE PLUS AN AMOUNT TO OFFSET THE CALCULATED DEAD LOAD DEFLECTION.

THE TRUSS SHALL BE ANCHORED TO THE ABUTMENTS IN A MANNER TO ALLOW THERMAL MOVEMENTS OF THE SUPERSTRUCTURE ALONG THE CENTERLINE OF ICE AGE TRAIL AND TO PREVENT HORIZONTAL TRANSLATION OF THE SUPERSTRUCTURE PERPEDICULAR TO THE CENTERLINE OF ICE AGE TRAIL.

THE TRUSS AND CONCRETE DECK SHALL BE DESIGNED TO ACCOMODATE AN EXPANSION JOINT AT THE ABUTMENTS. THE TRUSS FABRICATOR SHALL COORDINATE WITH THE JOINT MANUFACTURER TO OBTAIN NECESSARY JOINT AND ANCHORAGE DETAILS. SEE SHEET 14 FOR EXPANSION JOINT DETAIL.

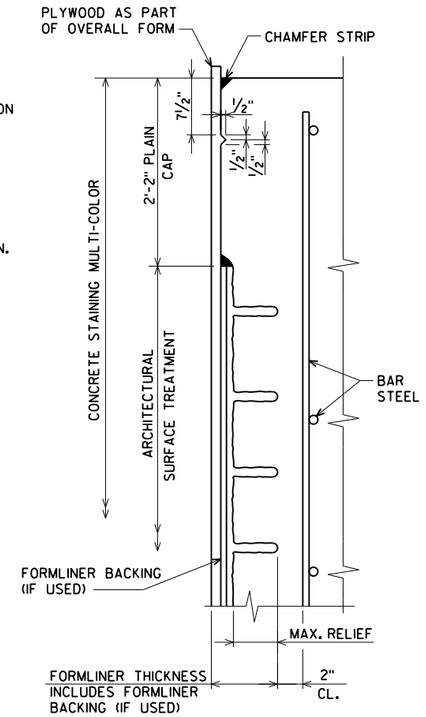
THE TOP CHORD OF TRUSS TO BE FABRICATED TO A PARABOLIC CURVE.

THE CONCRETE DECK SHALL BE DESIGNED AND REINFORCED TO SUPPORT DEAD AND LIVE LOADS WITHOUT CONTRIBUTION FROM THE DECK FORMING SYSTEM. REINFORCEMENT SHALL BE EPOXY COATED.



RECTANGULAR CUT STONE

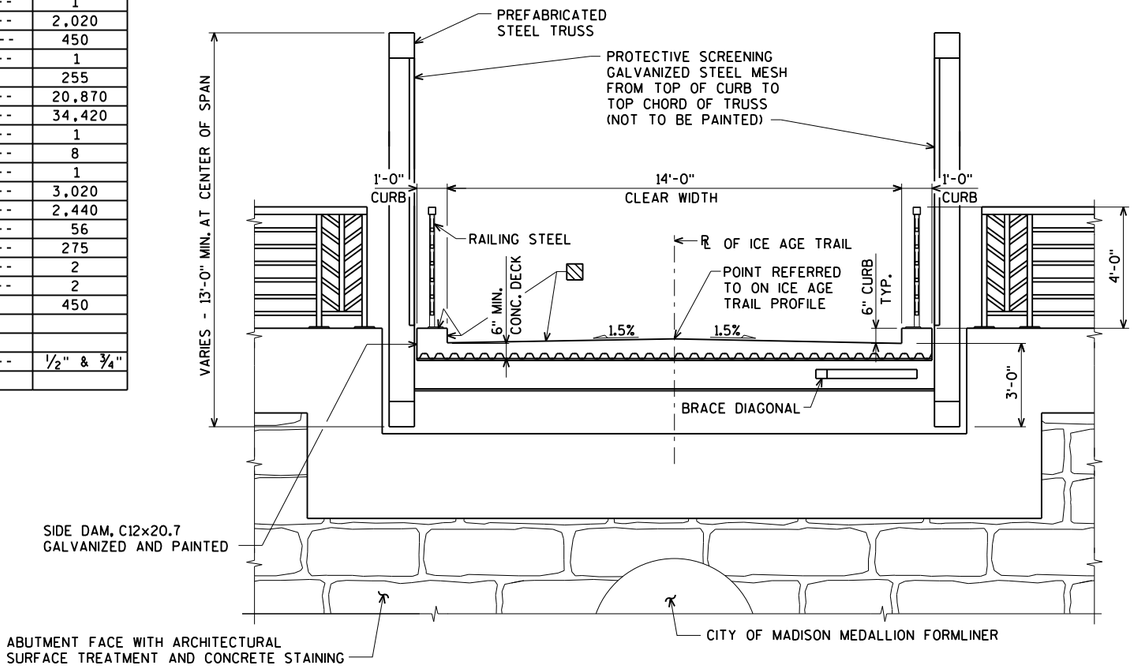
FORMLINER THICKNESS = 3¾"
SIZE = 14" TO 18" COURSING. STONE LENGTH VARIES 16" TO 72"
MAX. RELIEF = 3"



SECTION THRU FORMLINER

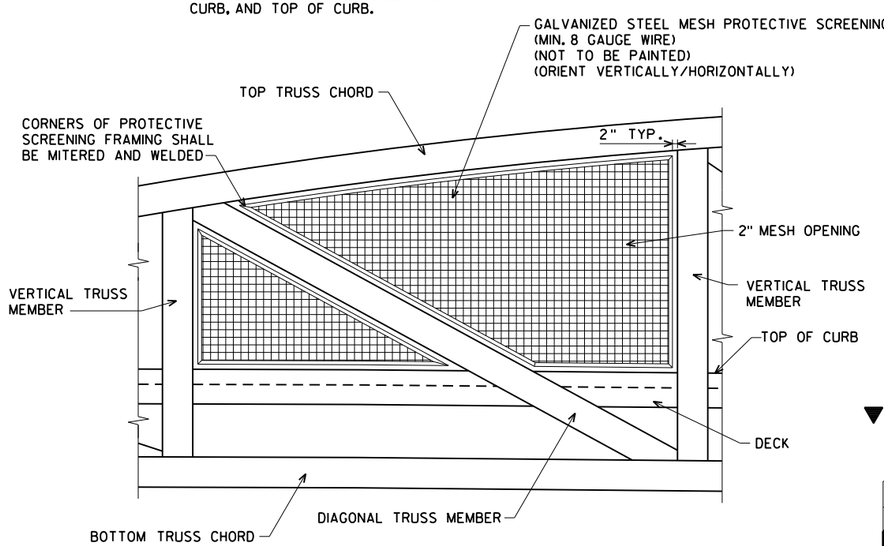
FORMLINER COURSING ON WALLS SHALL BE LEVEL

MULTI-COLOR STAINING AND FORMLINER PATTERN TO BE CONTINUOUS ACROSS VERTICAL WALL JOINTS. DO NOT STAIN VERTICAL WALL JOINT LIKE A MORTAR JOINT.



TYPICAL SECTION THRU STRUCTURE

▨ APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP OF DECK, INSIDE FACE OF CURB, AND TOP OF CURB.

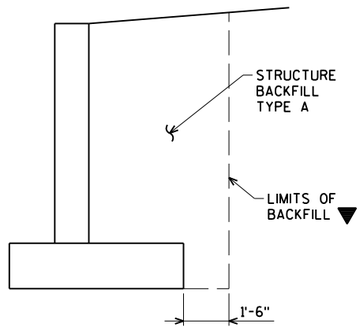


PROTECTIVE SCREENING

(INSIDE ELEVATION)

PROTECTIVE SCREENING SHALL BE PROVIDED BY THE TRUSS MANUFACTURER. ALL WORK ASSOCIATED WITH PROTECTIVE SCREENING SHALL BE INCLUDED IN THE BID ITEM "PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE, B-13-847, LRFD".

MESH SHALL BE ORIENTED VERTICALLY AND HORIZONTALLY.



STRUCTURE BACKFILL DETAIL

▼ BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY JCK/CLS | PLANS CK'D. AEB

TYPICAL SECTION, QUANTITIES, AND NOTES

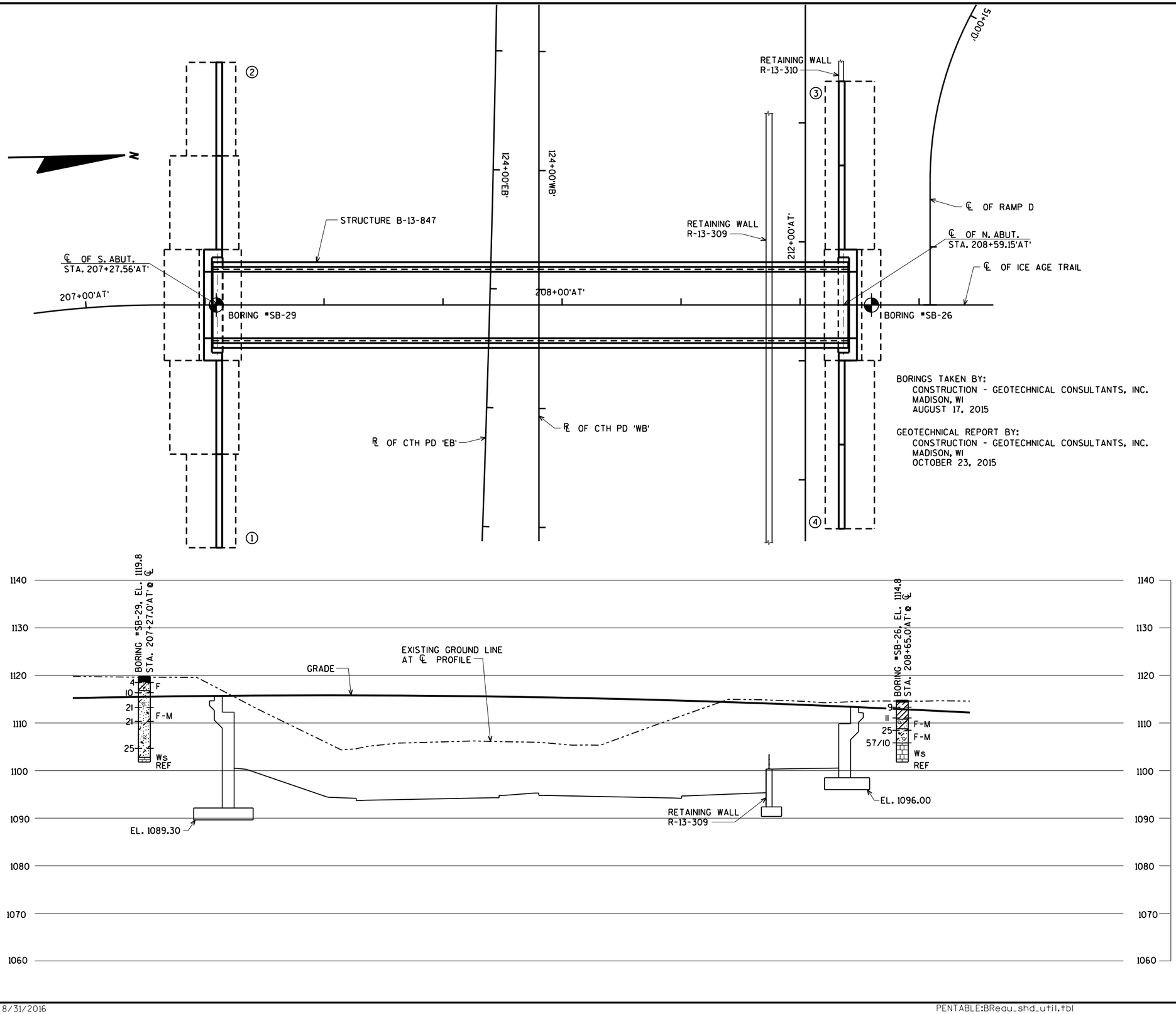
SHEET 2 OF 19
544

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

8

8

$PRFNAME$
U:\42-0976.00 - Dane Co, Madison, CTH PD\BRIDGE\420976 B-13-847 gp.dgn



STATE PROJECT NUMBER

5992-09-31

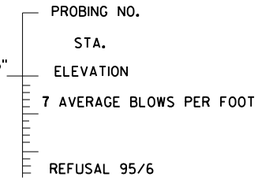
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

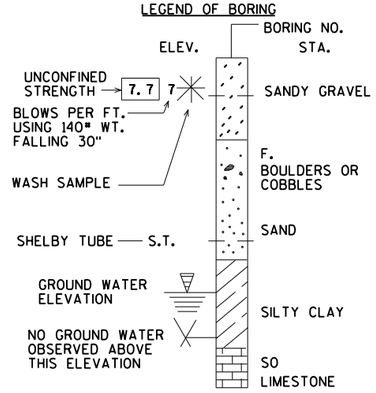
MATERIAL SYMBOLS

TOPSOIL SILT SANDSTONE
SAND PEAT LIMESTONE
GRAVEL CLAY IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY CLS | PLANS CK'D. AEB

SUBSURFACE EXPLORATION

SHEET 3 OF 19
545

8

8

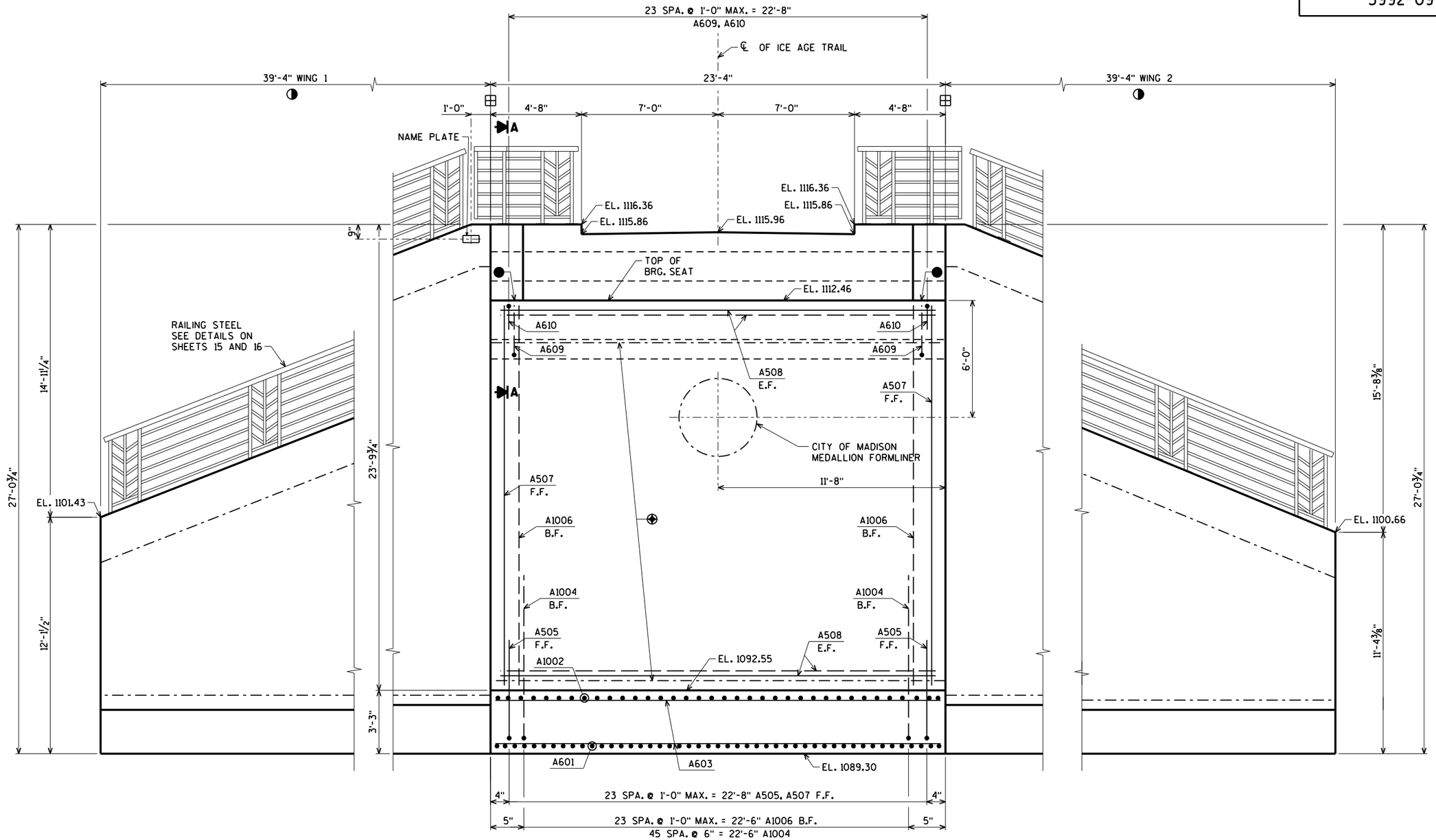
$PRFNAME$
U:\42-0976.00 - Dane Co. Madison, CTH PD\BRIDGE\420976 B-13-847 SOILS.dgn

8/31/2016

PENTABLE:BReau_shd_util.tbl

STATE PROJECT NUMBER

5992-09-31



ELEVATION
(LOOKING SOUTH)

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

FOR WING REINFORCING, SEE SHEETS 6 AND 7.

FOR SECTION A, SEE SHEET 8.

⊞ DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 8.

◑ PROVIDE VERTICAL CONTRACTION JOINT AT 19'-8" FROM END OF WING. SEE DETAIL ON SHEET 8.

● KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6".

⊕ LIMITS OF ARCHITECTURAL SURFACE TREATMENT - TYP. SEE SHEET 2 FOR DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY JWZ | PLANS CK'D. AEB

SOUTH ABUTMENT ELEVATION

SHEET 4 OF 19
546

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

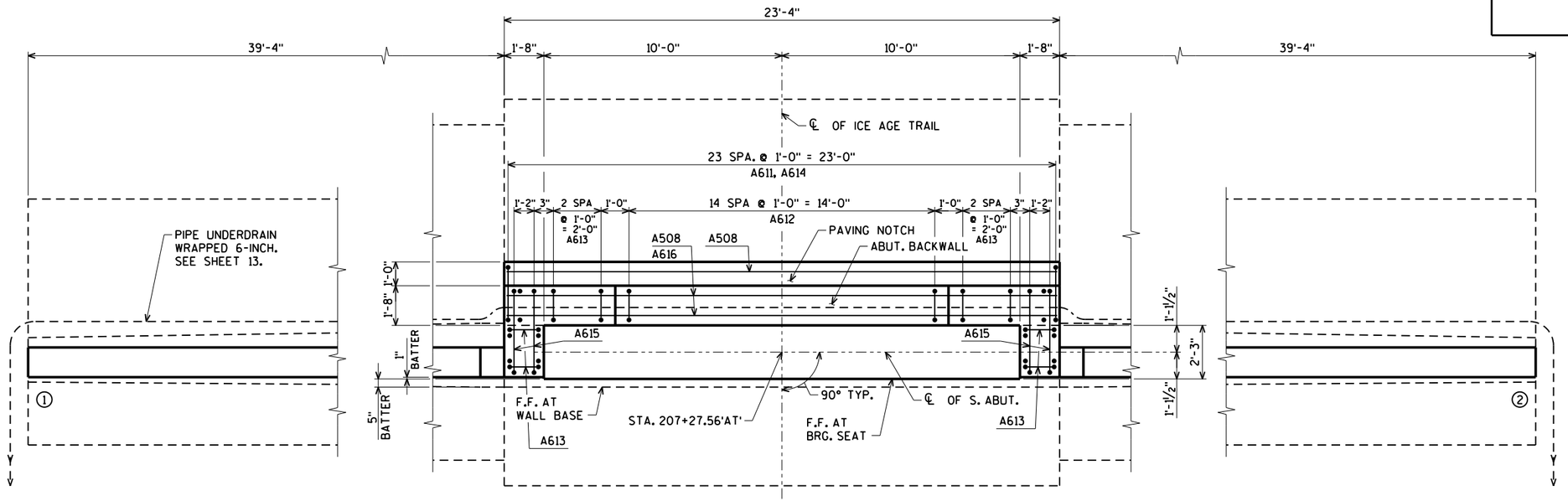
$PRFNAME$
U:\42-0976.00 - Dane Co, Madison, CTH PD\BRIDGE\420976 B-13-847 sa.dgn

8

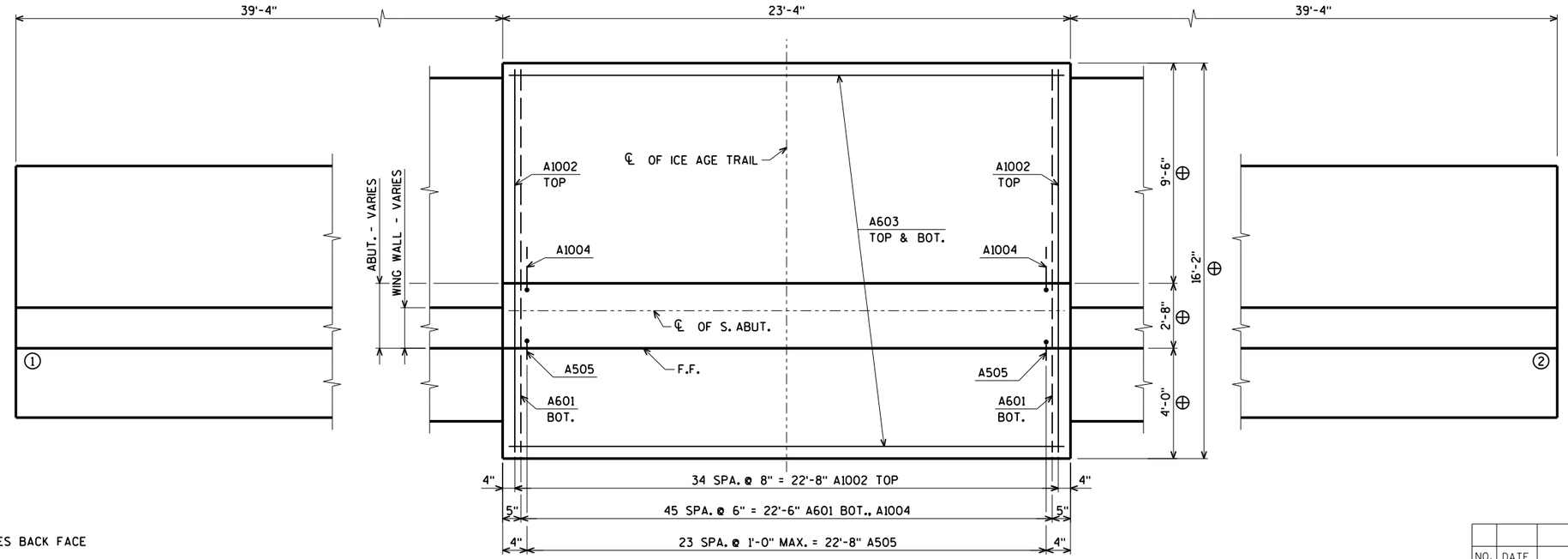
8

STATE PROJECT NUMBER

5992-09-31



PLAN



FOOTING PLAN

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

⊕ DIMENSIONS MEASURED AT BASE OF WALL STEM.

FOR WING REINFORCING, SEE SHEETS 6 AND 7.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY JWZ | PLANS CK'D. AEB

SOUTH ABUTMENT PLAN

SHEET 5 OF 19
547

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

8

8

$PRFNAME$
U:\42-0976.00 - Dane Co, Madison, CTH PD\BRIDGE\420976 B-13-847 sa.dgn

10/17/2016

PENTABLE:BReau_shd_util.tbl

$PRFNAME$
Ut:±42-0976.00 - Dane Co, Madison, CTH PD±BRIDGE±420976 B-13-847 sa.dgn

STATE PROJECT NUMBER

5992-09-31

B.F. DENOTES BACK FACE

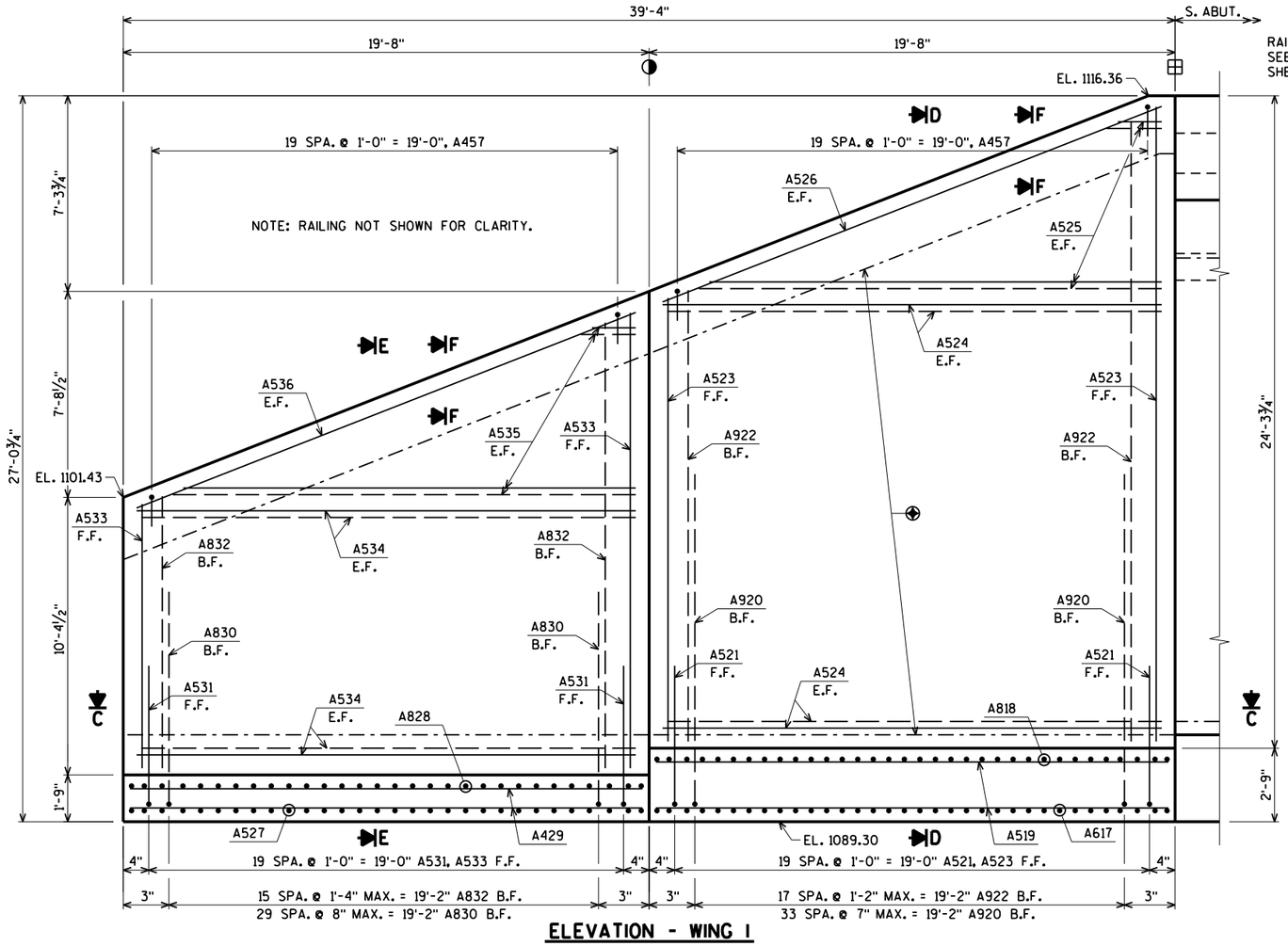
E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

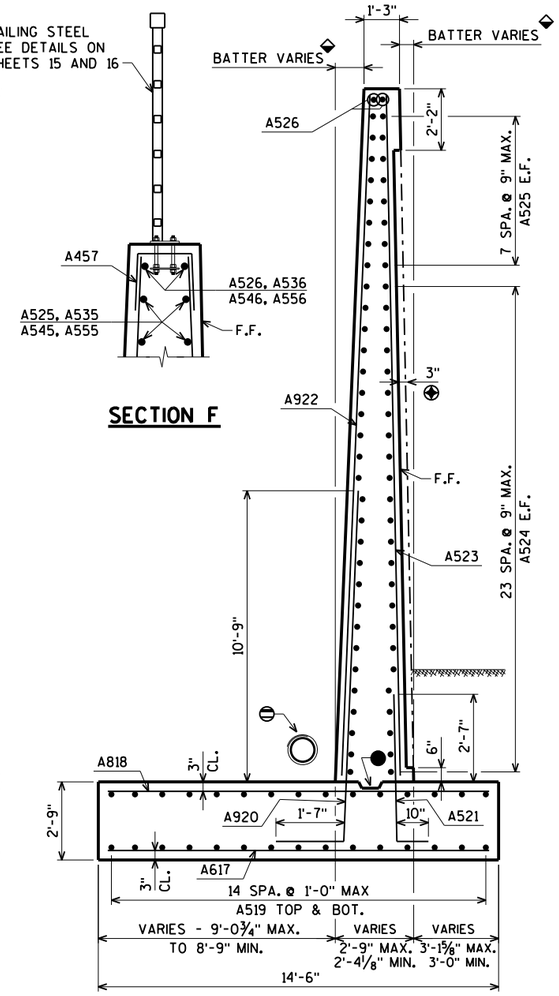
⊞ DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 8.

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 8.

◈ ARCHITECTURAL SURFACE TREATMENT - TYP. SEE SHEET 2 FOR DETAILS.

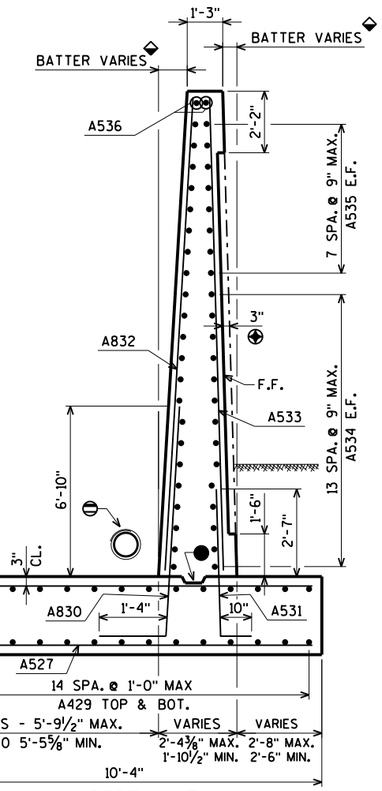


ELEVATION - WING 1

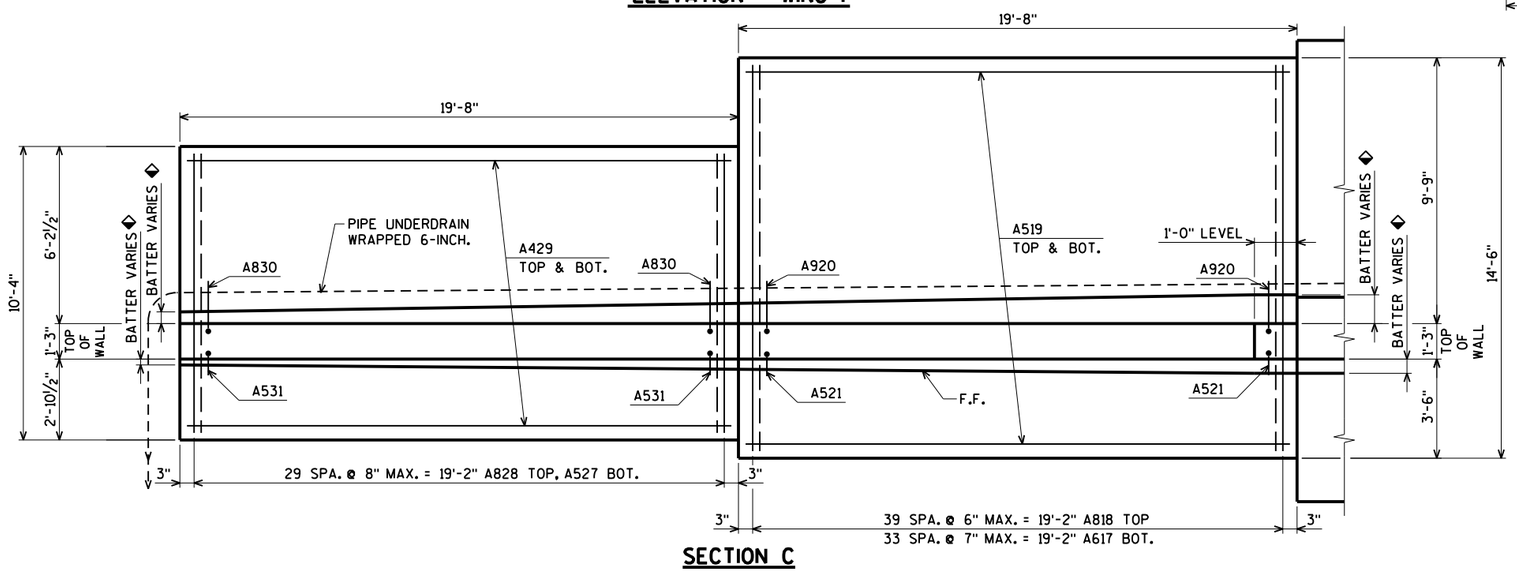


SECTION F

SECTION D



SECTION E



SECTION C

N

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 13. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".

◈ BATTER WALL FRONT FACE ¼ INCH PER FOOT AND WALL BACK FACE ½ INCH PER FOOT. FRONT FACE BATTER DISTANCE VARIES FROM 6" MAX. TO 2½" MIN. BACK FACE BATTER DISTANCE VARIES FROM 1'-0" MAX. TO 5" MIN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY JWZ | PLANS CK'D. AEB

SOUTH ABUTMENT WING 1 DETAILS

SHEET 6 OF 19
548

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

8/31/2016

PENTABLE:BReau_shd_util.tbl

8

8

$PRFNAME$
Ut:42-0976.00 - Dane Co, Madison, CTH PD-BRIDGE-420976 B-13-847 sa.dgn

STATE PROJECT NUMBER

5992-09-31

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

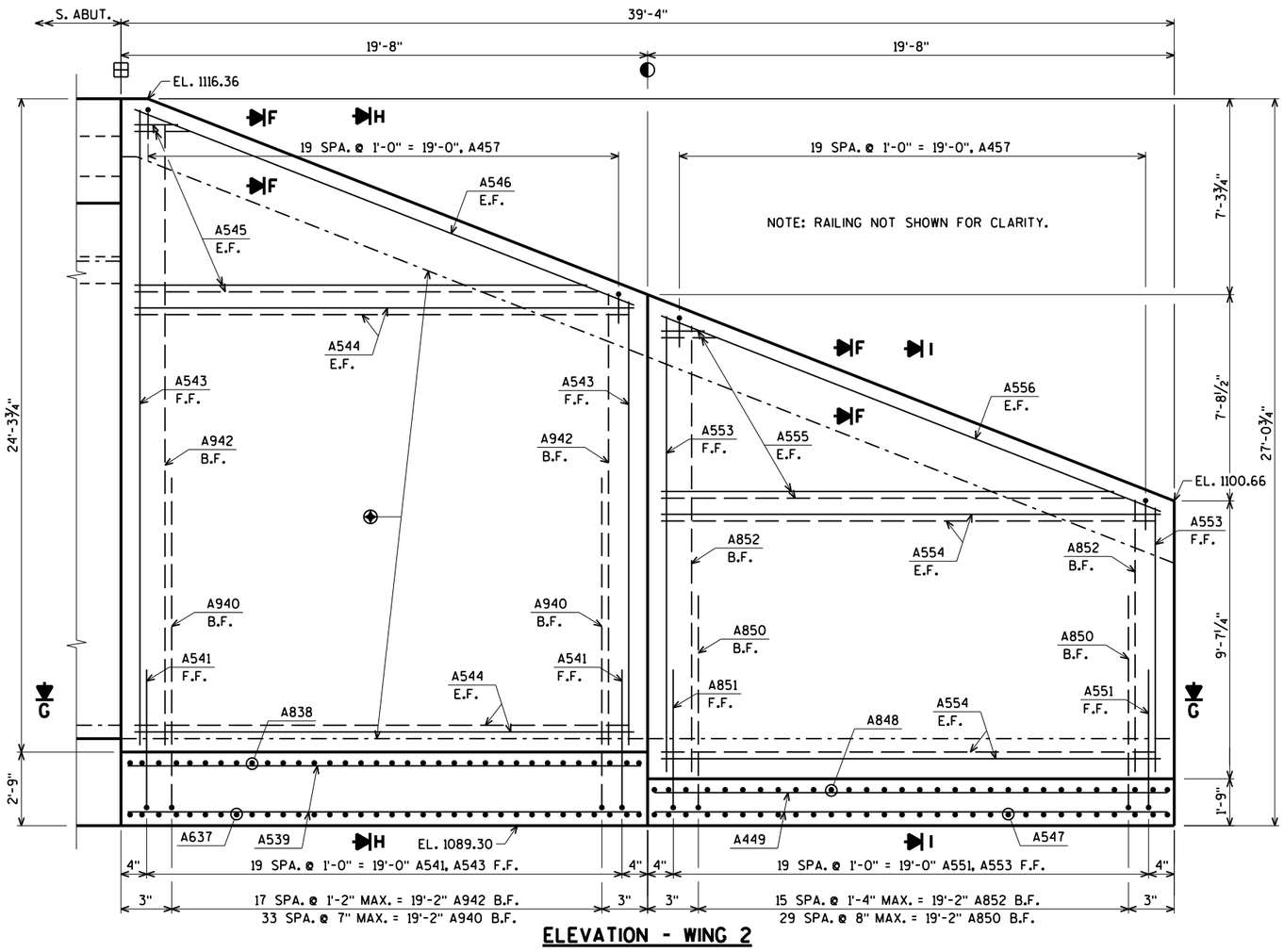
F.F. DENOTES FRONT FACE

⊞ DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 8.

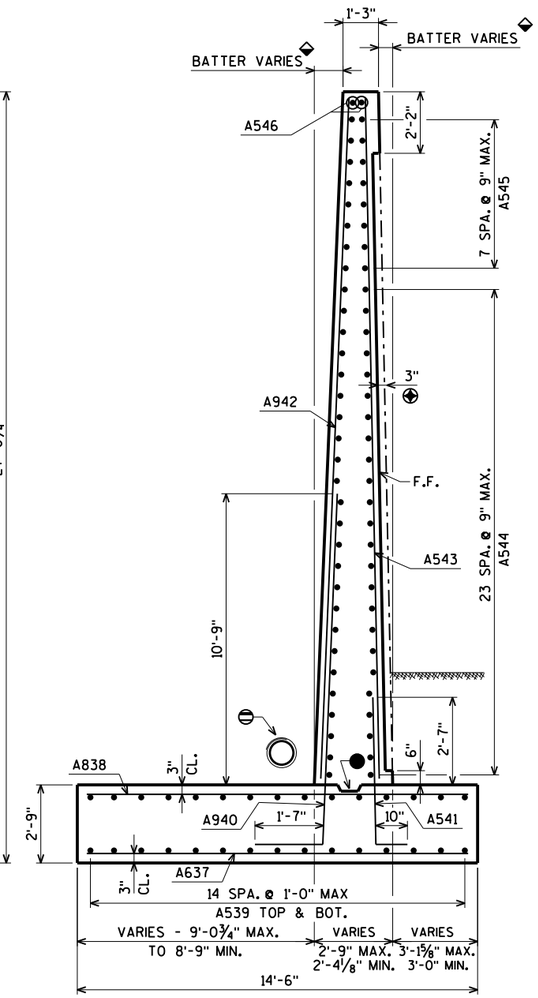
◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 8.

⊕ ARCHITECTURAL SURFACE TREATMENT - TYP. SEE SHEET 2 FOR DETAILS.

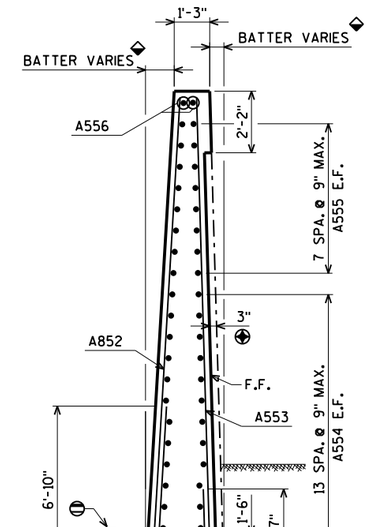
FOR SECTION F, SEE SHEET 6.



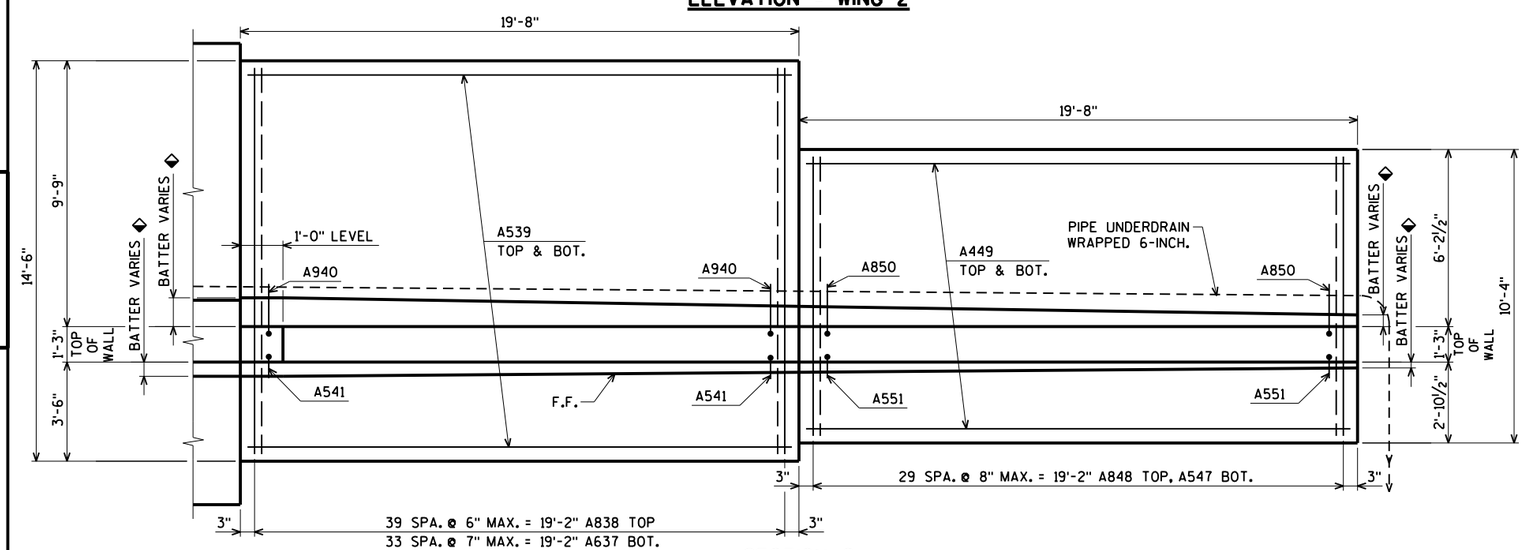
ELEVATION - WING 2



SECTION H



SECTION I



SECTION G

N

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 13. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".

◆ BATTER WALL FRONT FACE ¼ INCH PER FOOT AND WALL BACK FACE ½ INCH PER FOOT. FRONT FACE BATTER DISTANCE VARIES FROM 6" MAX. TO 2⅜" MIN. BACK FACE BATTER DISTANCE VARIES FROM 1'-0" MAX. TO 4¾" MIN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY JWZ | PLANS CK'D. AEB

SOUTH ABUTMENT WING 2 DETAILS

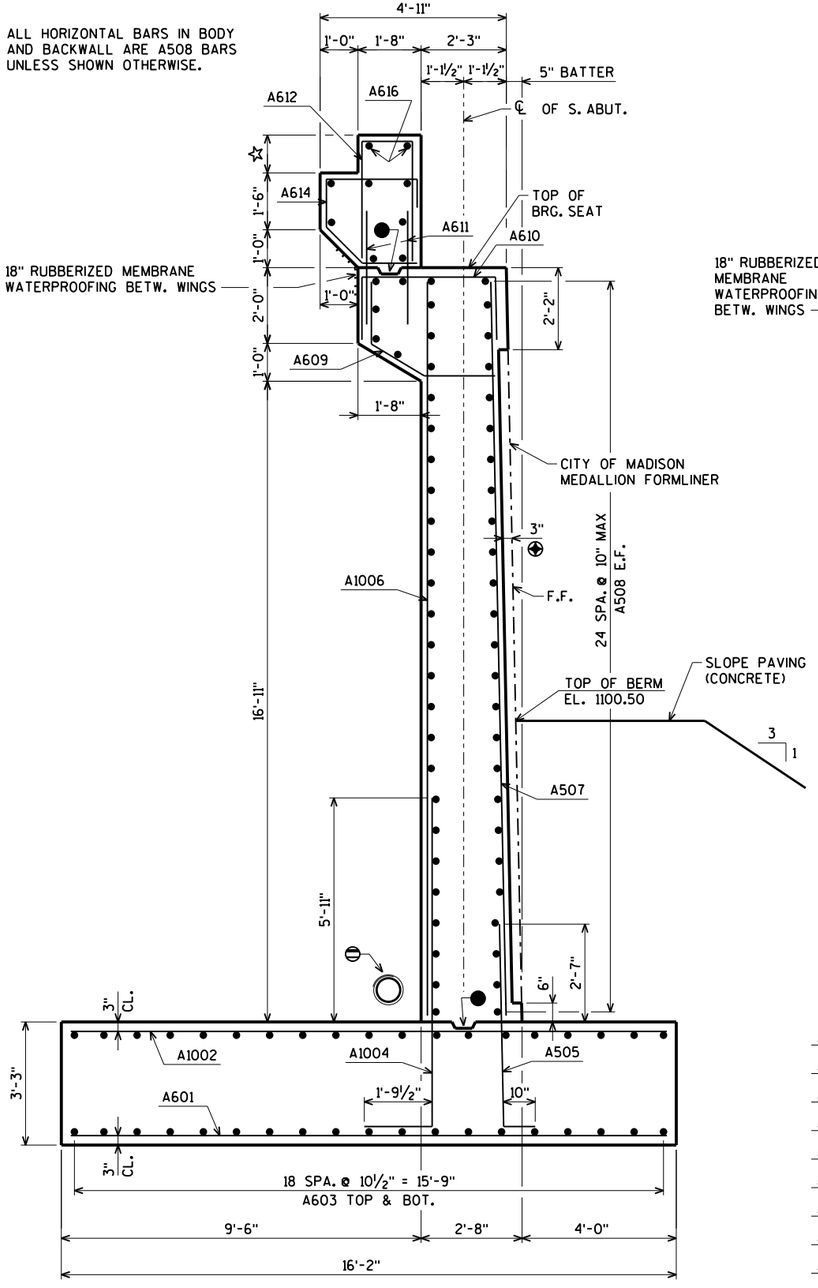
SHEET 7 OF 19
549

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

8

8

ALL HORIZONTAL BARS IN BODY AND BACKWALL ARE A508 BARS UNLESS SHOWN OTHERWISE.



TYPICAL SECTION THRU BODY

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

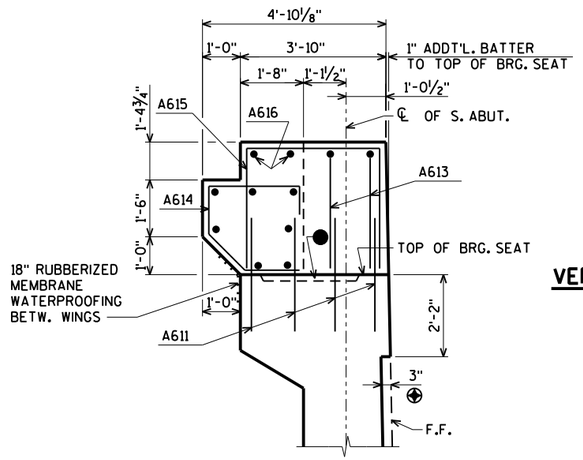
F.F. DENOTES FRONT FACE

DO NOT BACKFILL ABOVE BEAM SEAT UNTIL AFTER SUPERSTRUCTURE IS IN PLACE.

● OPT. KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.

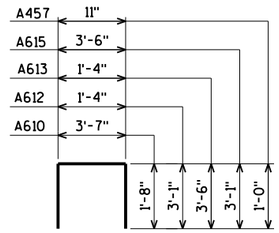
⊕ ARCHITECTURAL SURFACE TREATMENT - TYP. SEE SHEET 2 FOR DETAILS.

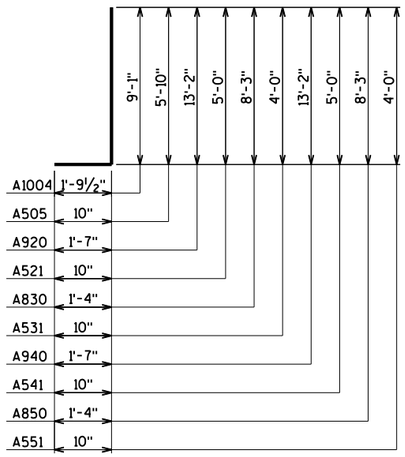
☆ VARIES - 10¾" MIN. TO 1'-0" MAX.



SECTION A

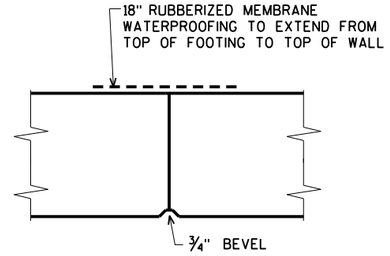
FOR LOCATION OF SECTION A, SEE SHEET 4.





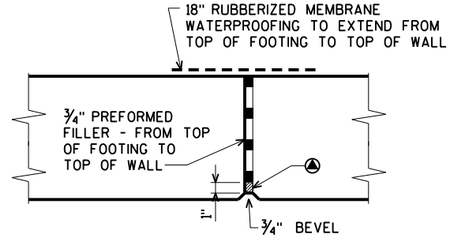
⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 13. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".

▲ FILL WITH NON-STAINING GRAY SINGLE COMPONENT NON-BITUMINOUS JOINT SEALER. FROM 1'-0" BELOW GROUND LINE TO TOP OF WALL.



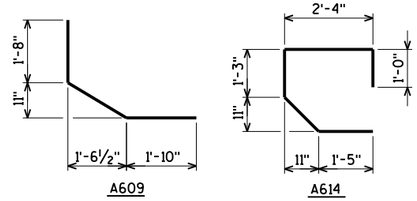
VERTICAL CONTRACTION JOINT DETAIL

DO NOT RUN ANY BAR STEEL THRU JOINT



VERTICAL EXPANSION JOINT DETAIL

DO NOT RUN ANY BAR STEEL THRU JOINT



BAR SERIES TABLE

BAR MARK	NO REQ'D.	LENGTH
A922	1 SERIES OF 18	16'-11" TO 23'-11"
A523	1 SERIES OF 20	16'-11" TO 23'-11"
A525	2 SERIES OF 8	2'-7" TO 18'-1"
A832	1 SERIES OF 16	10'-2" TO 17'-8"
A533	1 SERIES OF 20	10'-2" TO 17'-8"
A535	2 SERIES OF 8	1'-7" TO 18'-1"
A942	1 SERIES OF 18	16'-10" TO 23'-10"
A543	1 SERIES OF 20	16'-10" TO 23'-10"
A545	2 SERIES OF 8	2'-7" TO 18'-1"
A852	1 SERIES OF 16	9'-3" TO 16'-9"
A553	1 SERIES OF 20	9'-3" TO 16'-9"
A555	2 SERIES OF 8	1'-7" TO 18'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY.

STATE PROJECT NUMBER

5992-09-31

BILL OF BARS

BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED	BAR SERIES	13,440# UNCOATED 22,070# COATED — LOCATION
A601		46	15-8				ABUT. FOOTING BOT.
A1002		35	15-8				ABUT. FOOTING TOP
A603		38	23-0				ABUT. FOOTING TOP & BOT.
A1004	X	46	10-7	X			ABUT. FOOTING DOWEL B.F.
A505	X	24	6-5	X			ABUT. FOOTING DOWEL F.F.
A1006	X	24	19-7				ABUT. BODY VERT. B.F.
A507	X	24	19-7				ABUT. BODY VERT. F.F.
A508	X	62	23-0				ABUT. BODY HORIZ. E.F.
A609	X	24	5-2	X			ABUT. BODY TIE
A610	X	24	6-7	X			ABUT. BODY TIE
A611	X	56	3-0				ABUT. BODY DOWEL
A612	X	15	7-2	X			ABUT. BACKWALL VERT.
A613	X	10	8-0	X			ABUT. BACKWALL VERT.
A614	X	24	6-10	X			ABUT. BACKWALL TIE
A615	X	4	9-4	X			ABUT. BACKWALL TIE
A616	X	2	23-0				ABUT. BACKWALL HORIZ. E.F.
A617		34	14-2				WING 1 SECT. D FOOTING BOT.
A818		40	14-2				WING 1 SECT. D FOOTING TOP
A519		30	19-4				WING 1 SECT. D FOOTING TOP & BOT.
A920	X	34	14-9	X			WING 1 SECT. D FOOTING DOWEL B.F.
A521	X	20	5-9	X			WING 1 SECT. D FOOTING DOWEL F.F.
A922	X	18	20-6			⊗	WING 1 SECT. D BODY VERT B.F.
A523	X	20	20-6			⊗	WING 1 SECT. D BODY VERT. F.F.
A524	X	48	19-4				WING 1 SECT. D BODY HORIZ. E.F.
A525	X	16	10-4			⊗	WING 1 SECT. D BODY HORIZ. E.F.
A526	X	2	20-8				WING 1 SECT. D BODY DIAG. E.F.
A527		30	10-0				WING 1 SECT. E FOOTING BOT.
A828		30	10-0				WING 1 SECT. E FOOTING TOP
A429		30	19-4				WING 1 SECT. E FOOTING TOP & BOT.
A830	X	30	9-5	X			WING 1 SECT. E FOOTING DOWEL B.F.
A531	X	20	4-9	X			WING 1 SECT. E FOOTING DOWEL F.F.
A832	X	16	13-11			⊗	WING 1 SECT. E BODY VERT. B.F.
A533	X	20	13-11			⊗	WING 1 SECT. E BODY VERT. F.F.
A534	X	28	19-4				WING 1 SECT. E BODY HORIZ. E.F.
A535	X	16	9-10			⊗	WING 1 SECT. E BODY HORIZ. E.F.
A536	X	2	20-8				WING 1 SECT. E BODY DIAG. E.F.
A637		34	14-2				WING 2 SECT. H FOOTING BOT.
A838		40	14-2				WING 2 SECT. H FOOTING TOP
A539		30	19-4				WING 2 SECT. H FOOTING TOP & BOT.
A940	X	34	14-6	X			WING 2 SECT. H FOOTING DOWEL B.F.
A541	X	20	5-9	X			WING 2 SECT. H FOOTING DOWEL F.F.
A942	X	18	20-6			⊗	WING 2 SECT. H BODY VERT B.F.
A543	X	20	20-6			⊗	WING 2 SECT. H BODY VERT. F.F.
A544	X	48	19-4				WING 2 SECT. H BODY HORIZ. E.F.
A545	X	16	10-4			⊗	WING 2 SECT. H BODY HORIZ. E.F.
A546	X	2	25-10				WING 2 SECT. H BODY DIAG. E.F.
A547		30	10-0				WING 2 SECT. I FOOTING BOT.
A848		30	10-0				WING 2 SECT. I FOOTING TOP
A449		30	19-4				WING 2 SECT. I FOOTING TOP & BOT.
A850	X	30	9-5	X			WING 2 SECT. I FOOTING DOWEL B.F.
A551	X	20	4-9	X			WING 2 SECT. I FOOTING DOWEL F.F.
A852	X	16	13-0			⊗	WING 2 SECT. I BODY VERT. B.F.
A553	X	20	13-0			⊗	WING 2 SECT. I BODY VERT. F.F.
A554	X	28	19-4				WING 2 SECT. I BODY HORIZ. E.F.
A555	X	16	9-10			⊗	WING 2 SECT. I BODY HORIZ. E.F.
A556	X	2	25-10				WING 2 SECT. I BODY DIAG. E.F.
A457	X	80	2-9	X			WING 1 & 2 TIE

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

⊗ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY JWZ | PLANS CK'D. AEB

SOUTH ABUTMENT DETAILS & BILL OF BARS

SHEET 8 OF 19
550

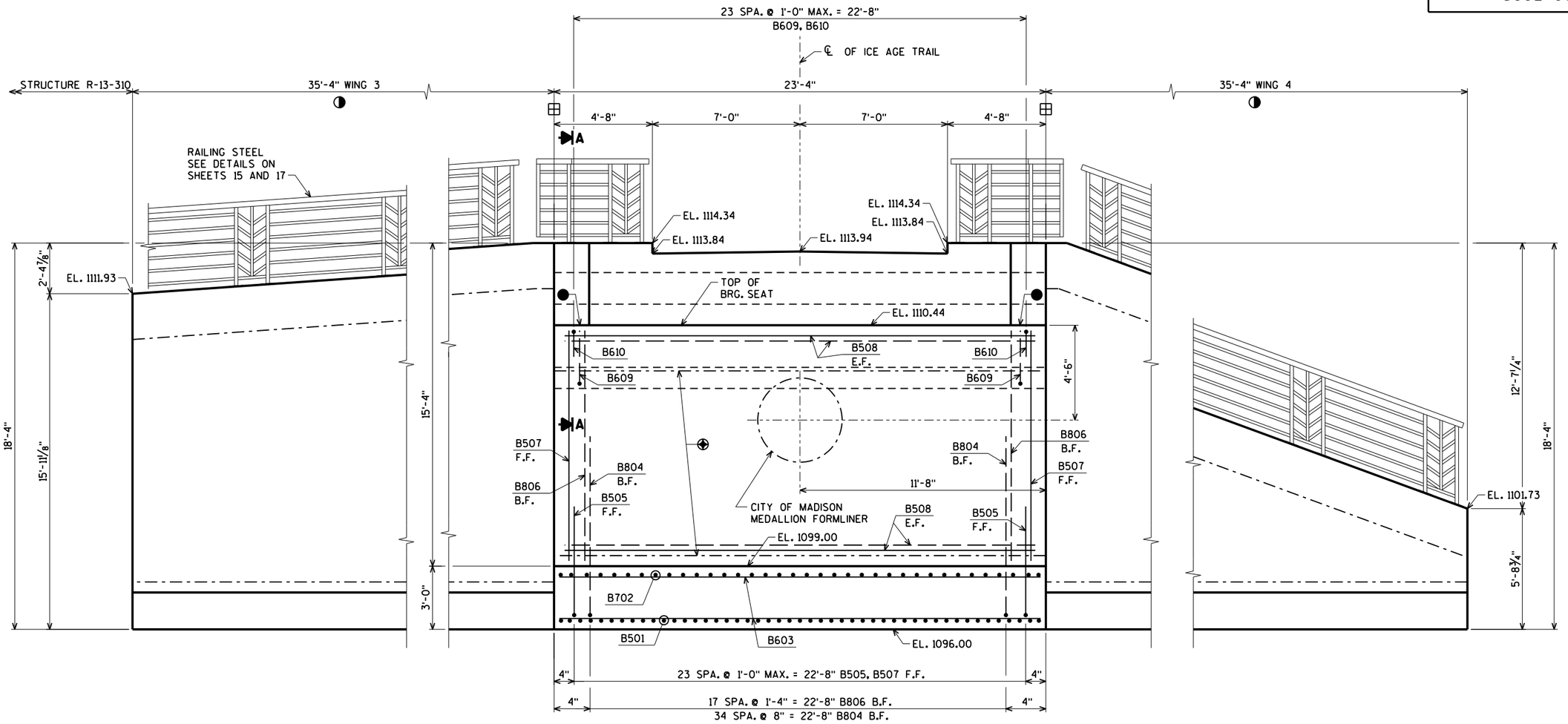
ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

$PRFNAME$
U:\42-0976.00 - Dane Co, Madison, CTH PD\BRIDGE\420976 B-13-847 sa.dgn

8

STATE PROJECT NUMBER

5992-09-31



ELEVATION
(LOOKING NORTH)

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

FOR WING REINFORCING, SEE SHEETS 11 AND 12.

⊞ DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 8.

◑ PROVIDE VERTICAL CONTRACTION JOINT AT 17'-8" FROM END OF WING. SEE DETAIL ON SHEET 8.

● KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6".

⊕ LIMITS OF ARCHITECTURAL SURFACE TREATMENT - TYP. SEE SHEET 2 FOR DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY JWZ | PLANS CK'D. AEB

NORTH ABUTMENT ELEVATION

SHEET 9 OF 19
551

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

8

8

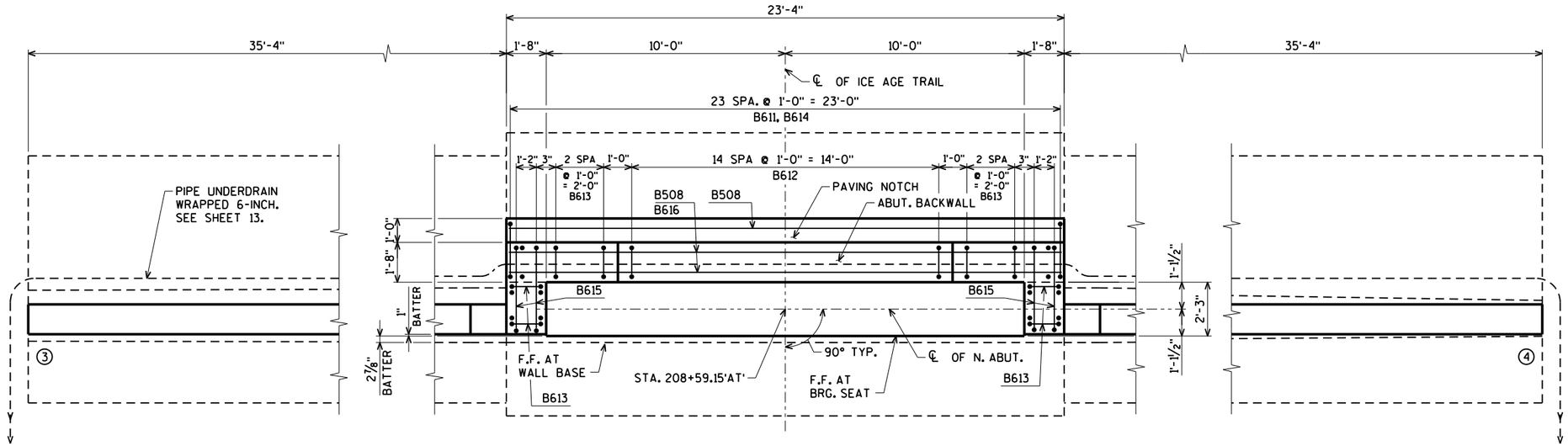
$PRFNAME$
Ut:42-0976.00 - Dane Co, Madison, CTH PD±BRIDGE±420976 B-13-847 na.dgn

8/31/2016

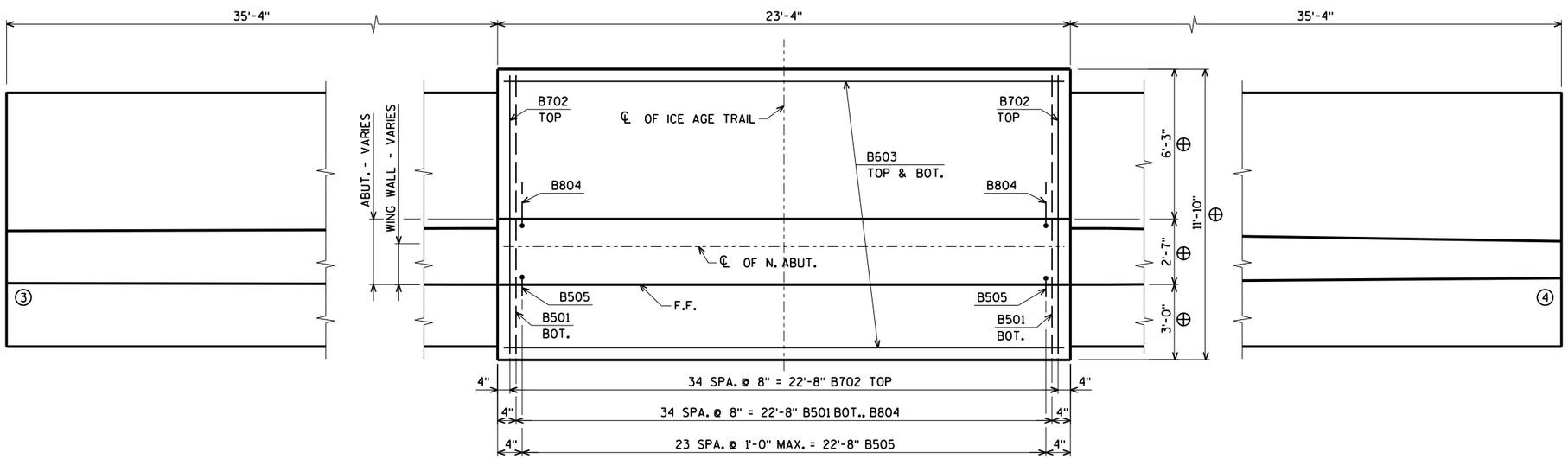
PENTABLE:BReau_shd_util.tbl

STATE PROJECT NUMBER

5992-09-31



PLAN



FOOTING PLAN

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

⊕ DIMENSIONS MEASURED AT BASE OF WALL STEM.

FOR WING REINFORCING, SEE SHEETS 11 AND 12.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY JWZ | PLANS CK'D. AEB

NORTH ABUTMENT PLAN

SHEET 10 OF 19
552

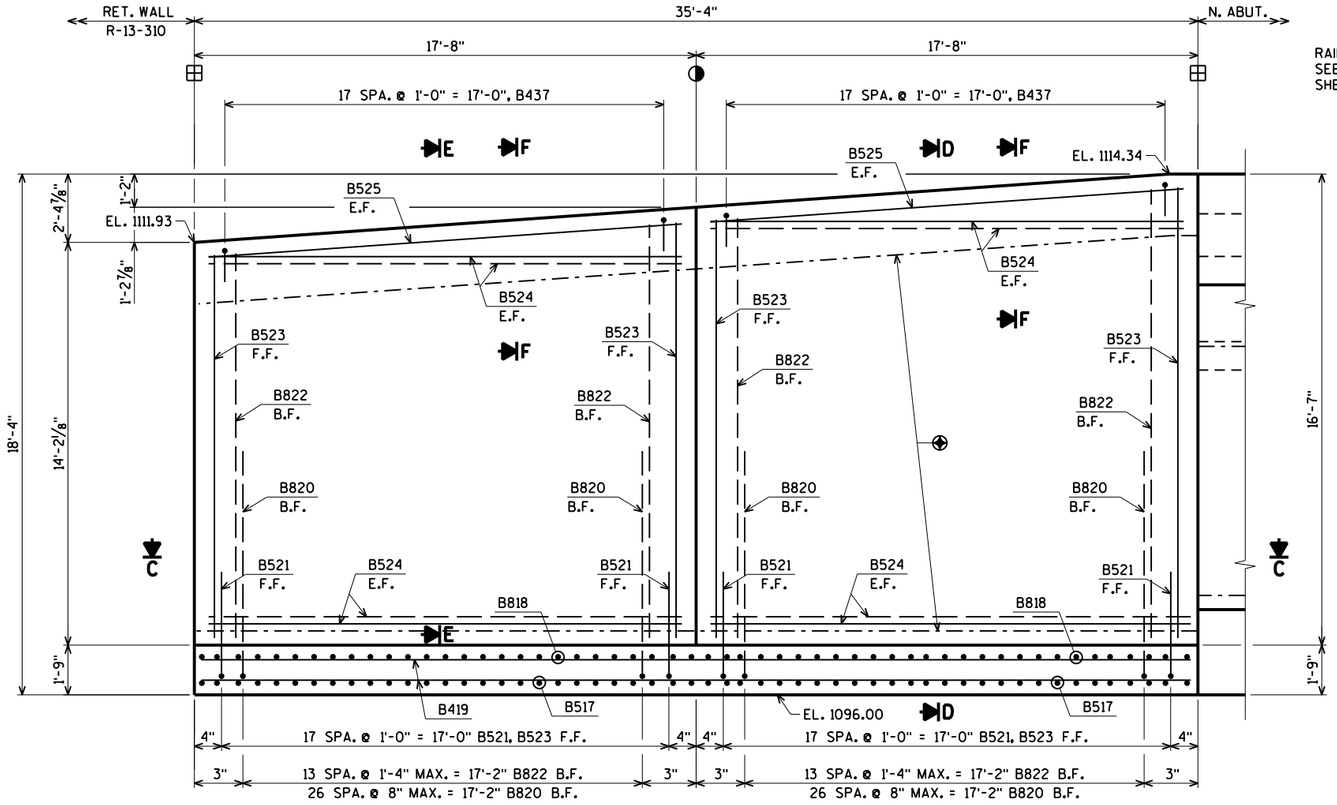
ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

$PRFNAME$
U:\42-0976.00 - Dane Co, Madison, CTH PD\BRIDGE\420976 B-13-847 na.dgn

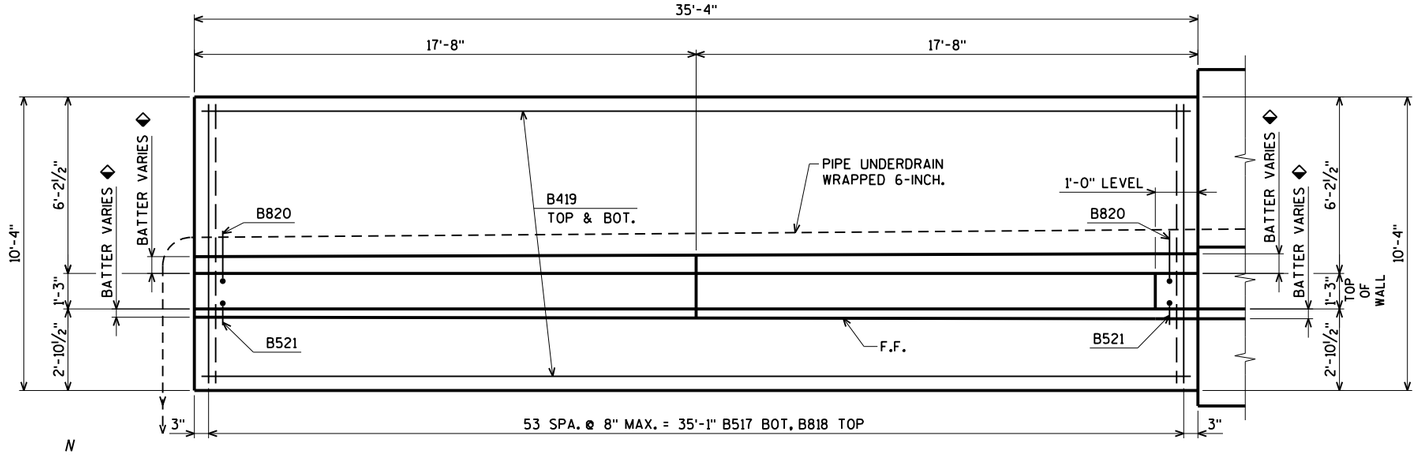
8

PENTABLE:BReau_shd_util.tbl

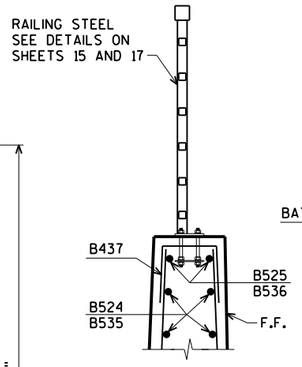
NOTE: RAILING NOT SHOWN FOR CLARITY.



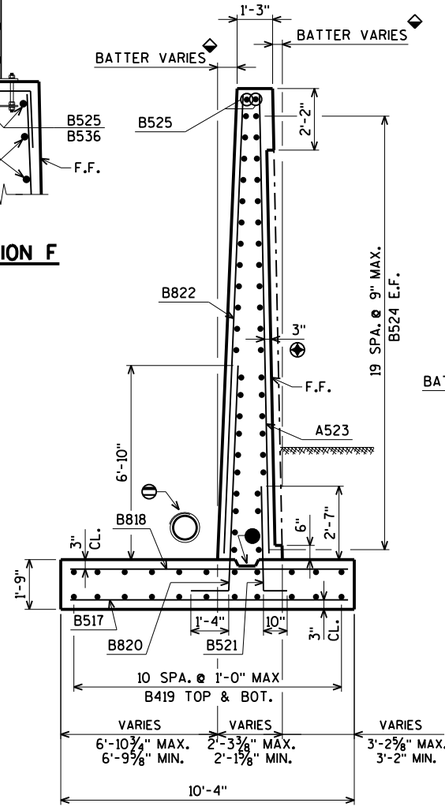
ELEVATION - WING 3



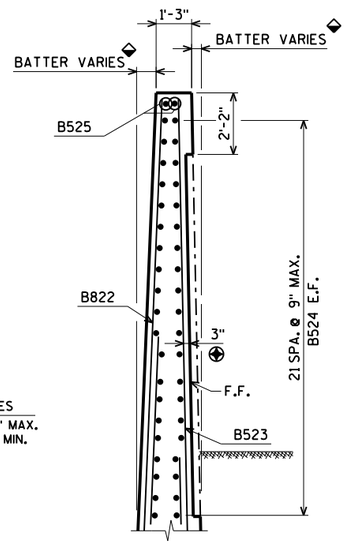
SECTION C



SECTION F



SECTION D



SECTION E

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 13. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".

◈ BATTER WALL FRONT FACE ¼ INCH PER FOOT AND WALL BACK FACE ½ INCH PER FOOT. FRONT FACE BATTER DISTANCE VARIES FROM 4⅛" MAX. TO 3½" MIN. BACK FACE BATTER DISTANCE VARIES FROM 8¼" MAX. TO 7⅛" MIN.

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

⊞ DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 8.

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 8.

◈ ARCHITECTURAL SURFACE TREATMENT - TYP. SEE SHEET 2 FOR DETAILS.

STATE PROJECT NUMBER

5992-09-31

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY JWZ | PLANS CK'D. AEB

NORTH ABUTMENT WING 3 DETAILS

SHEET 11 OF 19
553

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

8

8

$PRFNAME$
U:\42-0976.00 - Dane Co. Madison, CTH PD\BRIDGE\420976 B-13-847 na.dgn

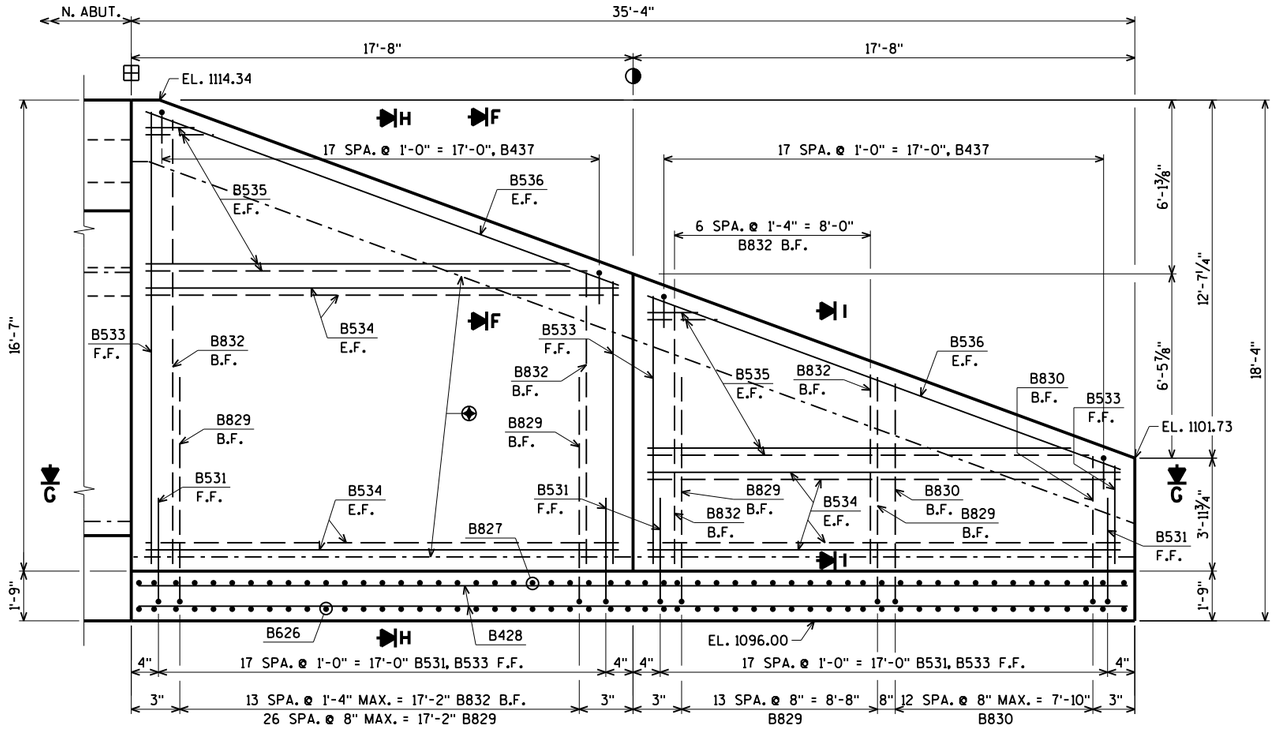
8/31/2016

PENTABLE:BRequ_shd_util.tbl

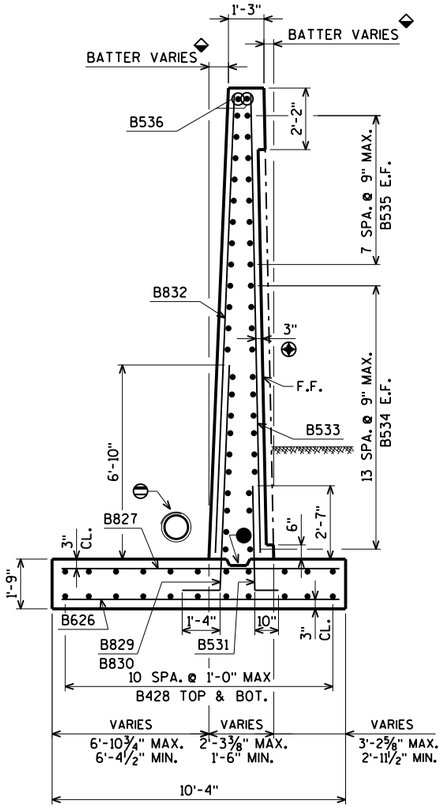
STATE PROJECT NUMBER

5992-09-31

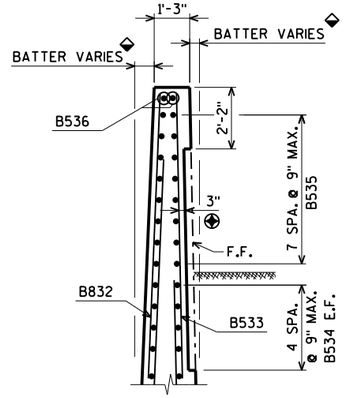
NOTE: RAILING NOT SHOWN FOR CLARITY.



ELEVATION - WING 4



SECTION H



SECTION I

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

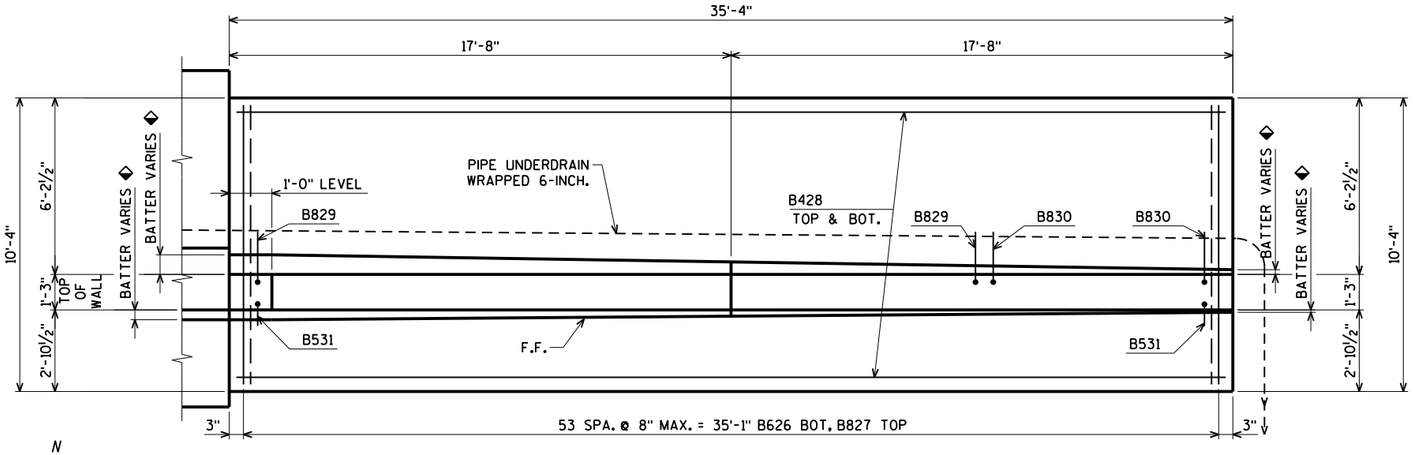
F.F. DENOTES FRONT FACE

⊞ DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 8.

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 8.

⊕ ARCHITECTURAL SURFACE TREATMENT - TYP. SEE SHEET 2 FOR DETAILS.

FOR SECTION F, SEE SHEET 11.



SECTION G

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 13. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".

◆ BATTER WALL FRONT FACE ¼ INCH PER FOOT AND WALL BACK FACE ½ INCH PER FOOT. FRONT FACE BATTER DISTANCE VARIES FROM 4⅛" MAX. TO 1" MIN. BACK FACE BATTER DISTANCE VARIES FROM 8¼" MAX. TO 2" MIN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY JWZ | PLANS CK'D. AEB

NORTH ABUTMENT WING 4 DETAILS

SHEET 12 OF 19
554

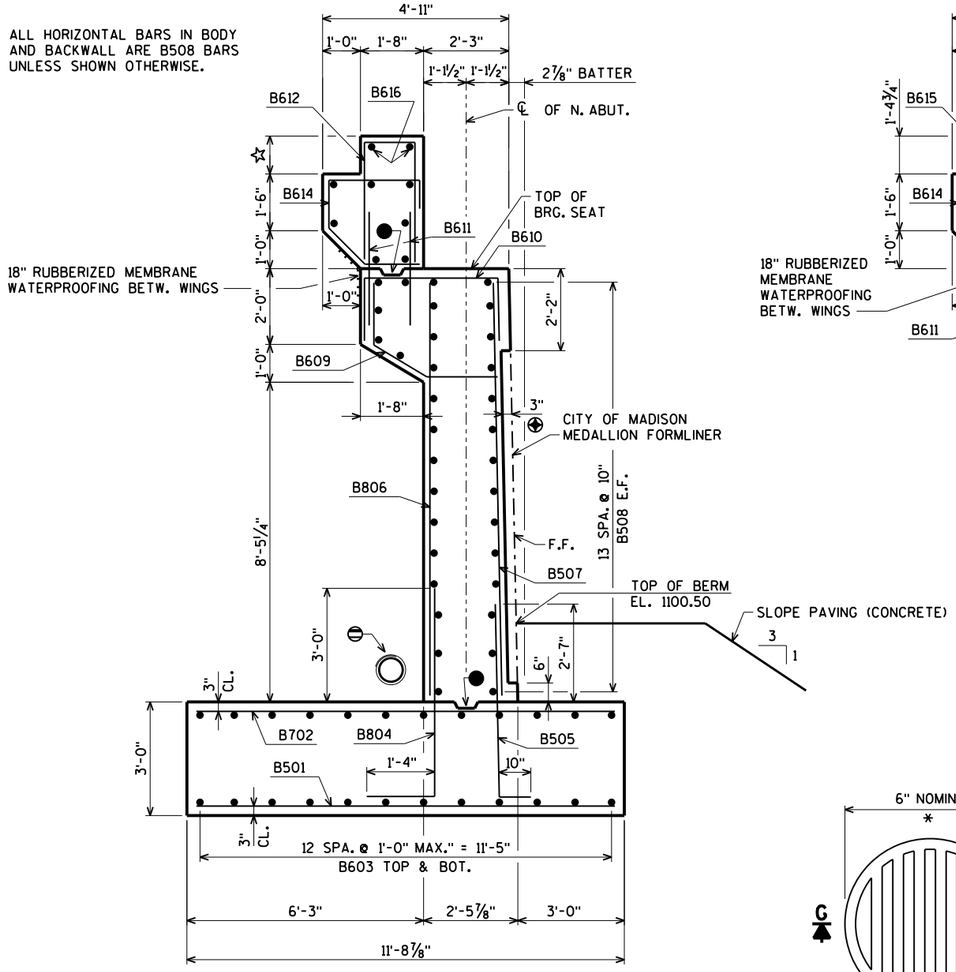
ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

8

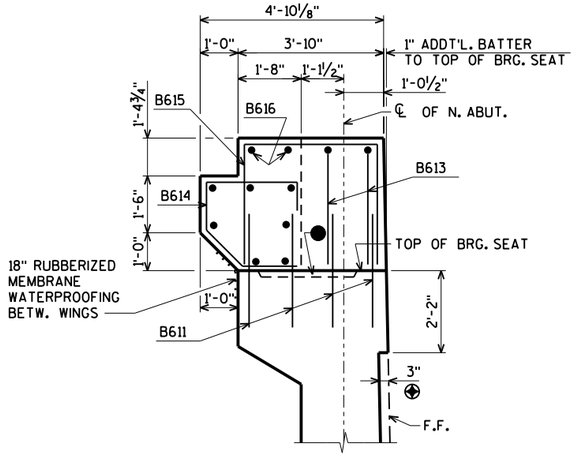
8

$PRFNAME$
U:\42-0976.00 - Dane Co, Madison, CTH PD\BRIDGE\420976 B-13-847 na.dgn

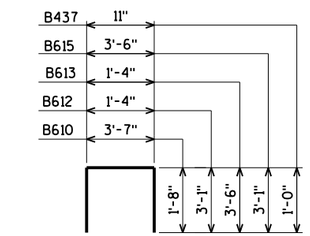
ALL HORIZONTAL BARS IN BODY AND BACKWALL ARE B508 BARS UNLESS SHOWN OTHERWISE.

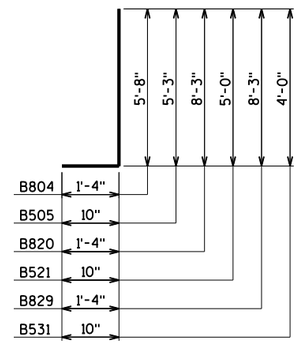


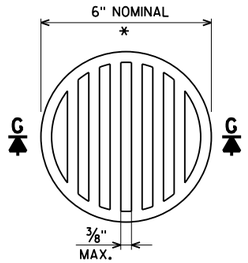
TYPICAL SECTION THRU BODY

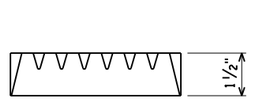


SECTION A









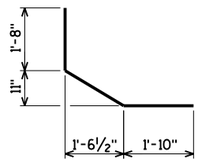
SECTION G-G

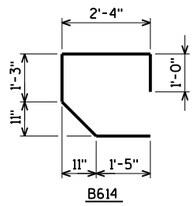
* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

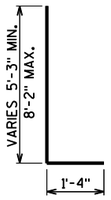
THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SCREEN TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH SHEET METAL SCREWS.

RODENT SHIELD DETAIL







BILL OF BARS

BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	7,430 # UNCOATED 12,390# COATED LOCATION
B501		35	11-6			ABUT. FOOTING BOT.
B702		35	11-6			ABUT. FOOTING TOP
B603		26	23-0			ABUT. FOOTING TOP & BOT.
B804	X	35	6-10	X		ABUT. FOOTING DOWEL B.F.
B505	X	24	6-0	X		ABUT. FOOTING DOWEL F.F.
B806	X	18	11-1			ABUT. BODY VERT. B.F.
B507	X	24	11-1			ABUT. BODY VERT. F.F.
B508	X	40	23-0			ABUT. BODY HORIZ. E.F.
B609	X	24	5-2	X		ABUT. BODY TIE
B610	X	24	6-7	X		ABUT. BODY TIE
B611	X	56	3-0			ABUT. BODY DOWEL
B612	X	15	7-2	X		ABUT. BACKWALL VERT.
B613	X	10	8-0	X		ABUT. BACKWALL VERT.
B614	X	24	6-10	X		ABUT. BACKWALL TIE
B615	X	4	9-4	X		ABUT. BACKWALL TIE
B616	X	2	23-0			ABUT. BACKWALL HORIZ. E.F.
B517		54	10-0			WING 3 FOOTING BOT.
B818		54	10-0			WING 3 FOOTING TOP
B419		22	35-0			WING 3 FOOTING TOP & BOT.
B820	X	54	9-5	X		WING 3 FOOTING DOWEL B.F.
B521	X	36	4-9	X		WING 3 FOOTING DOWEL F.F.
B822	X	28	15-1		⊗	WING 3 BODY VERT B.F.
B523	X	36	15-1		⊗	WING 3 BODY VERT. F.F.
B524	X	80	17-4			WING 3 BODY HORIZ. E.F.
B525	X	4	17-4			WING 3 BODY DIAG. E.F.
B626		54	10-0			WING 4 FOOTING BOT.
B827		54	10-0			WING 4 FOOTING TOP
B428		22	35-0			WING 4 FOOTING TOP & BOT.
B829	X	41	9-5	X		WING 4 FOOTING DOWEL B.F.
B830	X	13	7-10	X	⊗	WING 4 FOOTING DOWEL B.F.
B531	X	36	4-9	X		WING 4 FOOTING DOWEL F.F.
B832	X	21	11-5		⊗	WING 4 BODY VERT. B.F.
B533	X	36	10-0		⊗	WING 4 BODY VERT. F.F.
B534	X	38	17-4			WING 4 BODY HORIZ. E.F.
B535	X	32	9-7		⊗	WING 4 BODY HORIZ. E.F.
B536	X	4	18-5			WING 4 BODY DIAG. E.F.
B437	X	72	2-9	X		WING 3 & 4 TIE

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

⊗ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

BAR MARK	NO REQ'D.	LENGTH
B822	1 SERIES OF 28	13'-11" TO 16'-3"
B523	1 SERIES OF 36	13'-11" TO 16'-3"
B830	1 SERIES OF 13	6'-4" TO 9'-4"
B832	1 SERIES OF 21	6'-7" TO 16'-3"
B533	1 SERIES OF 36	3'-8" TO 16'-3"
B535	1 SERIES OF 16	3'-0" TO 16'-2"

BUNDLE AND TAG EACH SERIES SEPARATELY.

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

DO NOT BACKFILL ABOVE BEAM SEAT UNTIL AFTER SUPERSTRUCTURE IS IN PLACE.

● OPT. KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.

⊕ ARCHITECTURAL SURFACE TREATMENT - TYP. SEE SHEET 2 FOR DETAILS.

☆ VARIES - 10¾" MIN. TO 1'-0" MAX.

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH".

▲ FILL WITH NON-STAINING GRAY SINGLE COMPONENT NON-BITUMINOUS JOINT SEALER. FROM 1'-0" BELOW GROUND LINE TO TOP OF WALL.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY JWZ | PLANS CK'D. AEB

NORTH ABUTMENT DETAILS & BILL OF BARS

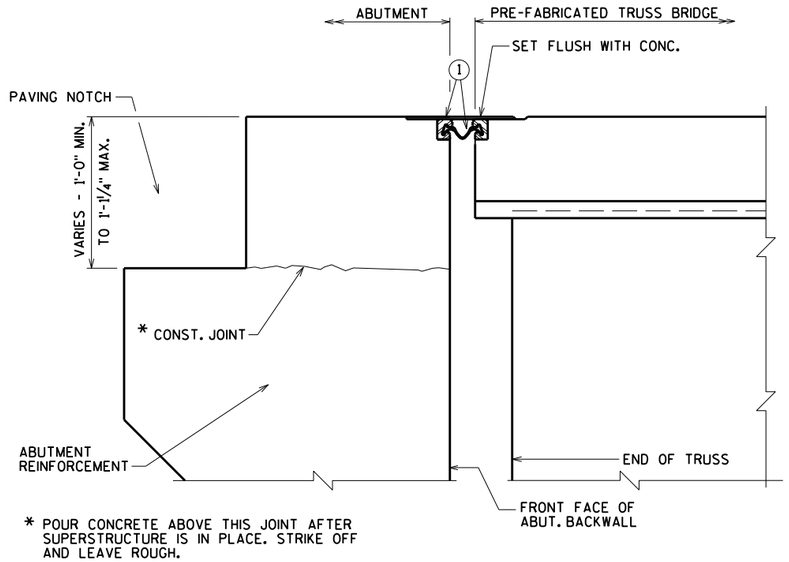
SHEET 13 OF 19
555

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

$PRFNAME$
U:±42-0976.00 - Dane Co, Madison, CTH PD±BRIDGE±420976 B-13-847 na.dgn

STATE PROJECT NUMBER

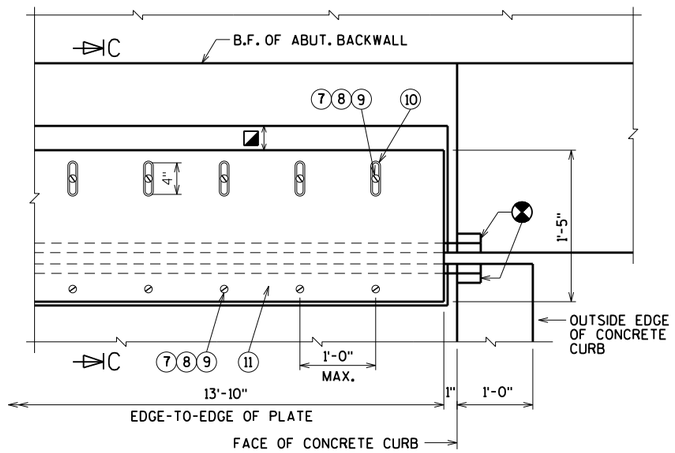
5992-09-31



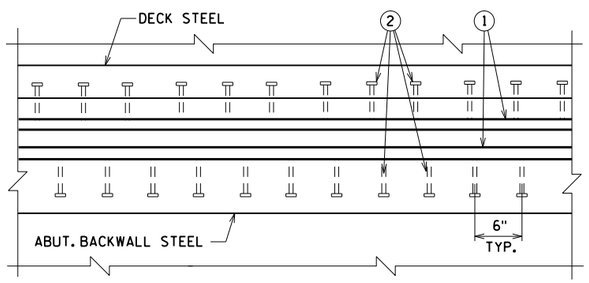
* POUR CONCRETE ABOVE THIS JOINT AFTER SUPERSTRUCTURE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.

SECTION THRU JOINT AT ABUTMENTS

(NORMAL TO ℄ SUBSTRUCTURE)

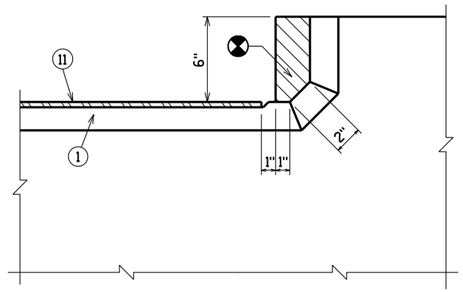


PLAN

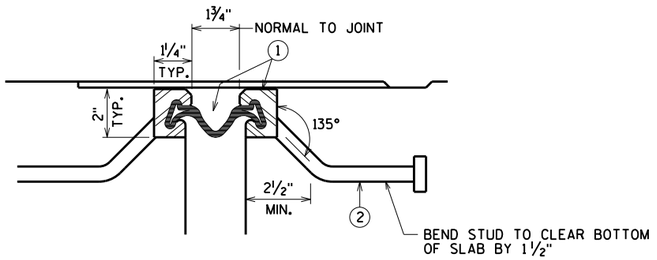


PART PLAN

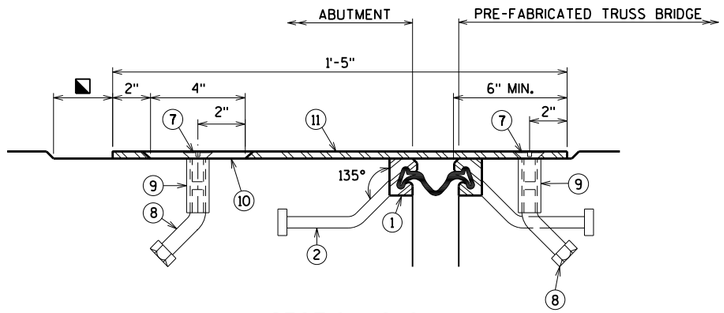
(COVER PLATES NOT SHOWN)



SECTION AT CURB



SECTION THRU JOINT



SECTION C-C

LEGEND

1. NEOPRENE STRIP SEAL (4-INCH) AND STEEL EXTRUSIONS.
2. STUDS ⅝"Φ X 6⅜" LONG AT 6" CENTERS. WELD TO EXTRUSIONS AND BEND AS SHOWN AFTER WELDING.
7. ¾"Φ X 1½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/16" BELOW PLATE SURFACE.
8. ¾"Φ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
9. ¾"Φ X 2¼" GALVANIZED THREADED COUPLING.
10. 1" X 4" SLOTTED COUNTERSUNK HOLE FOR NO. 7. PLACE SLOT PARALLEL TO DIRECTION OF MOVEMENT.
11. COVER PLATE ⅜" X 1'-5" X LIMITS SHOWN, WITH HOLES FOR NO. 7. GALVANIZE PLATE AFTER SLIP-RESISTANT SURFACE IS APPLIED.

⊗ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.

◥ JOINT OPENING DIMENSION PLUS ½".

NOTES

NO FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST, AND SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN AND SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED. SLIP-RESISTANT SURFACE IS APPLIED TO COVER PLATES BY THE MANUFACTURER AND THEN HOT DIPPED GALVANIZED TO THEIR RECOMMENDATIONS TO MAINTAIN THE INTEGRITY OF THIS SURFACE.

THE EXPANSION DEVICE MANUFACTURER SHALL PROVIDE A MECHANISM TO SUPPORT THE JOINT IN PLACE DURING THE CONCRETE POUR.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-13-847".

JOINT MANUFACTURER SHALL INFORM AND PROVIDE JOINT DETAILS AT THE SOUTH AND NORTH ABUTMENTS TO THE TRUSS FABRICATOR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY JWZ | PLANS CK'D. AEB

EXPANSION JOINT DETAILS

SHEET 14 OF 19
556

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

8

8

$PRFNAME$
U:±42-0976.00 - Dane Co, Madison, CTH PD±BRIDGE±420976 B-13-847 exp.dgn

10/17/2016

PENTABLE:BReau_shd_util.tbl

STATE PROJECT NUMBER

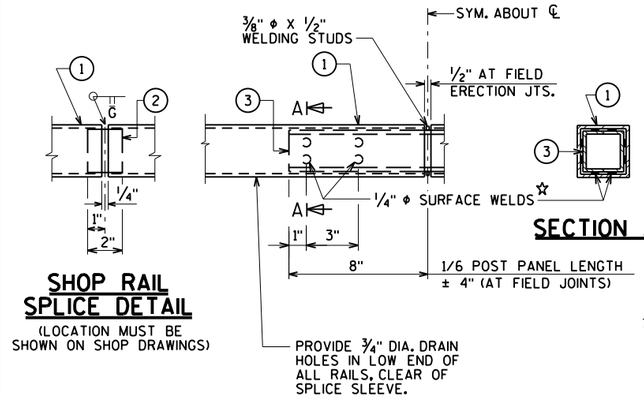
5992-09-31

LEGEND

(1) STRUCTURAL TUBING 1½" X 1½" X 3/16" OR 3" X 3" X 3/16" RAILS. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION AND EXPANSION JOINTS.

(2) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".

(3) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4" ℄ FIELD ERECTION).

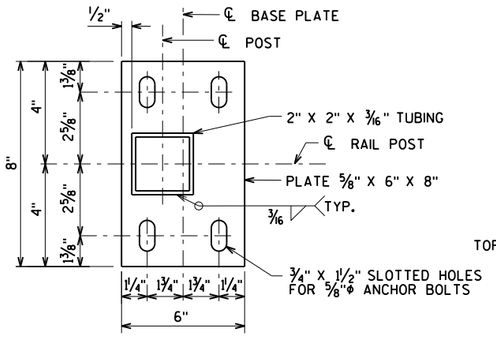


SHOP RAIL SPLICE DETAIL

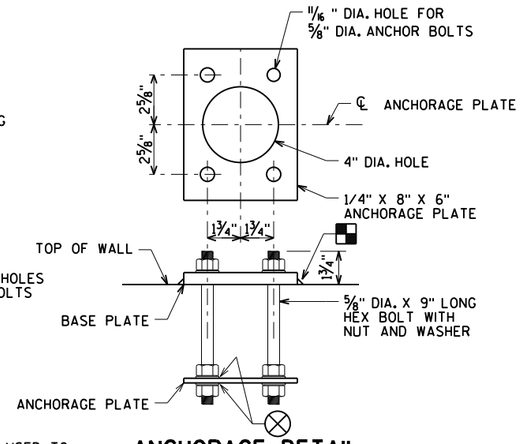
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)

FIELD ERECTION JOINT DETAIL

☆ MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

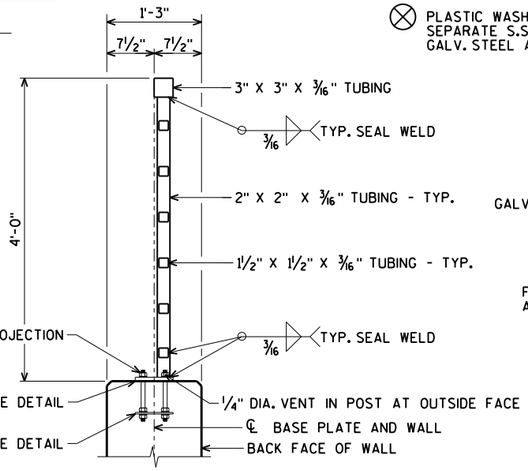


TYPICAL RAIL POST BASE PLATE

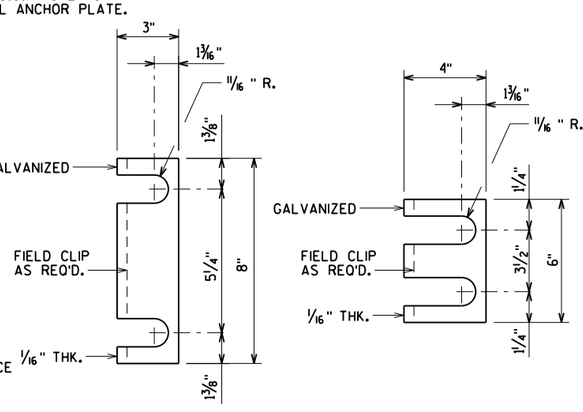


ANCHORAGE DETAIL

⊗ PLASTIC WASHERS USED TO SEPARATE S.S. WASHER & GALV. STEEL ANCHOR PLATE.



SECTION THRU RAILING



RAIL POST SHIM DETAIL

(2 SETS PER POST)

NOTES

THE BID ITEM SHALL BE "RAILING STEEL PEDESTRIAN, B-13-847" WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT, AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

RAILS AND POSTS TO BE A.S.T.M. A500, GRADE B. BASE PLATES, RECTANGULAR SLEEVES, AND SHIMS TO BE A.S.T.M. A709, GRADE 36.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET POSTS VERTICAL.

ALL POST SPACING IS TAKEN HORIZ. ALONG CENTER LINE OF RAILING AT BASE OF POST.

SHIMS SHALL BE USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT AND SHALL BE GALVANIZED.

■ CAULK AROUND PERIMETER OF BASE PLATES AND FILL PORTION OF SLOTTED HOLES AROUND ANCHOR BOLTS IN BASE PLATE WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

CUT BOTTOM OF POST TO MAKE VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE EITHER STAINLESS STEEL OR 5/8"-DIA. X 9"-LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE - 4 EQUIV. STAINLESS STEEL CONCRETE ADHESIVE ANCHORS, 5/8"-DIA. EMBED A MINIMUM OF 7".

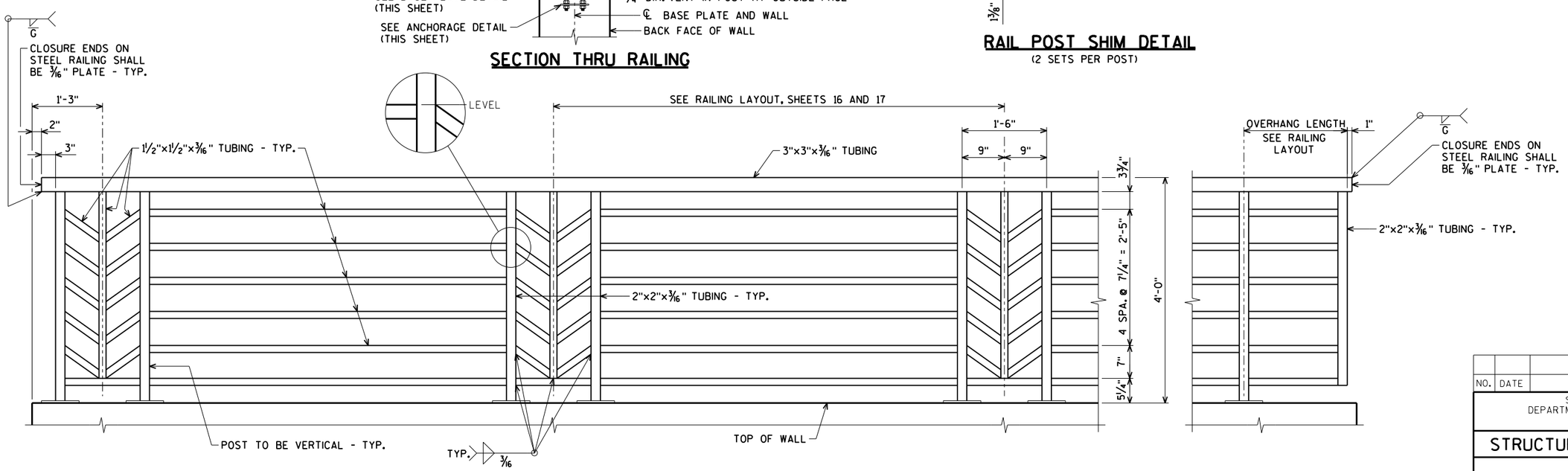
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE NOT MORE THAN 3 OR 4 POSTS.

ALL MATERIALS, EXCEPT ANCHOR BOLTS, SHALL BE GALVANIZED AFTER FABRICATION, PRIOR TO GALVANIZING, THE STEEL RIALING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS.

PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE COLOR SHALL DUPLICATE SHERWIN WILLIAMS "KENDAL GREEN" (SW6467).

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

TOUCH UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



ELEVATION OF RAILING

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY JWZ | PLANS CK'D. AEB

RAILING DETAIL

SHEET 15 OF 19
557

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

$PRFNAME$
U:\42-0976.00 - Dane Co, Madison, CTH PD\BRIDGE\420976 B-13-847 rail.dgn

8

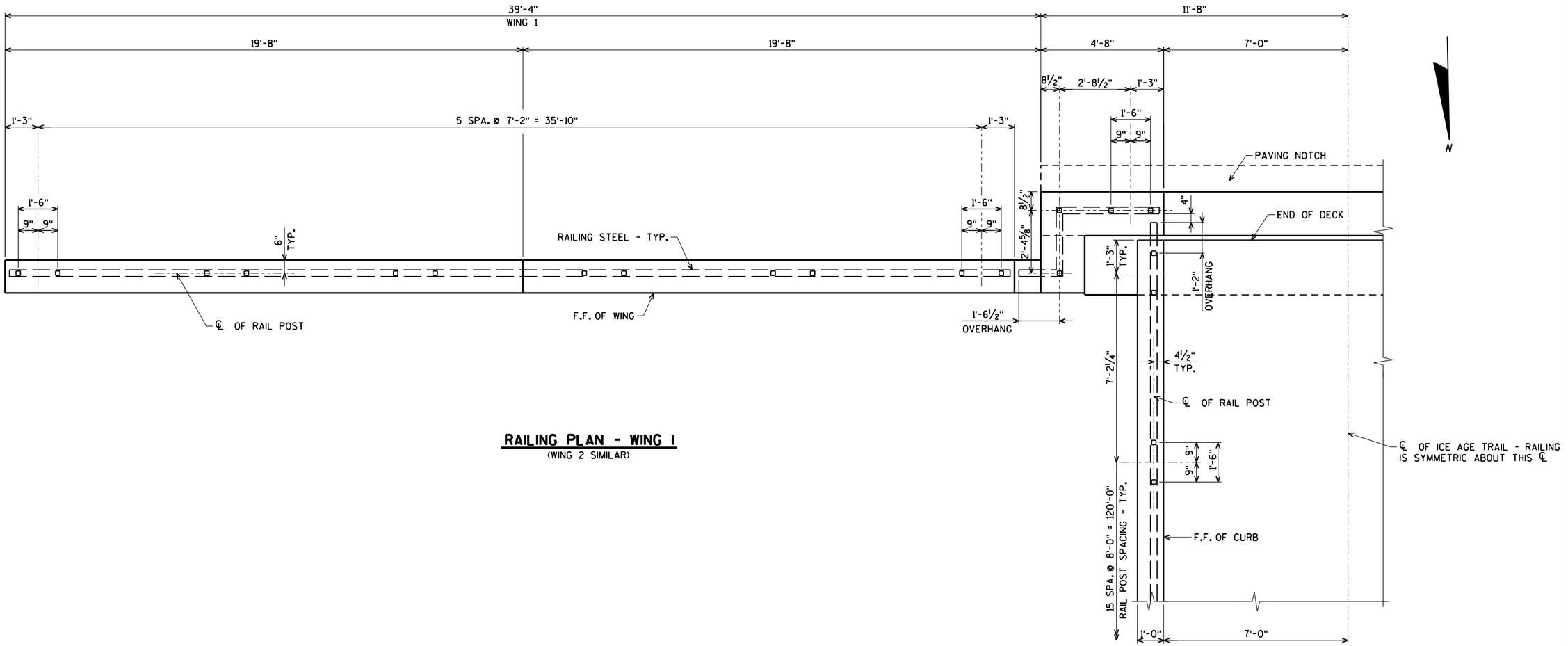
8

10/17/2016

PENTABLE:BReau_shd_util.tbl

STATE PROJECT NUMBER

5592-09-31



RAILING PLAN - WING 1

(WING 2 SIMILAR)

PARTIAL RAILING PLAN - SUPERSTRUCTURE

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY JWZ | PLANS CK'D. AEB

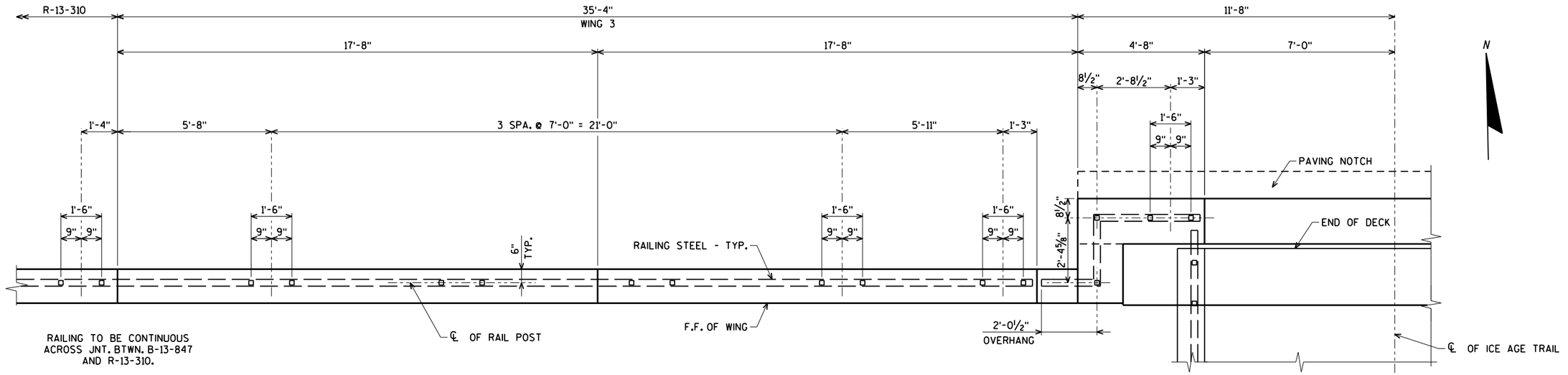
RAILING PLAN
SOUTH ABUT. AND
SUPERSTRUCTURE

SHEET 16 OF 19
558

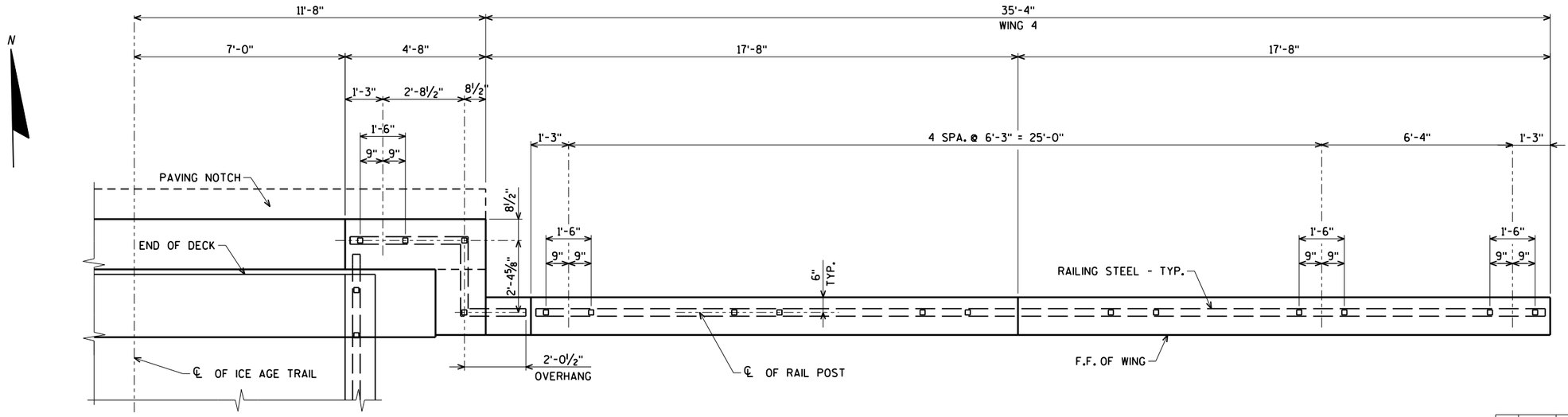
ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

$PRFNAME$
U:\42-0976.00 - Dane Co, Madison, CTH PD\BRIDGE\420976 B-13-847 rail.dgn

STATE PROJECT NUMBER
5992-09-31



RAILING PLAN - WING 3



RAILING PLAN - WING 4

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY JWZ | PLANS CK'D. AEB

RAILING PLAN
NORTH ABUTMENT

SHEET 17 OF 19
559

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

$PRFNAME$
U:\42-0976.00 - Dane Co, Madison, CTH PD\BRIDGE\420976 B-13-847 rail.dgn

8

8

$PRFNAME$
U:\42-0976.00 - Dane Co, Madison, CTH PD\BRIDGE\420976 B-13-847 medallion.dgn



ORIGINAL



ROYCRAFT COPPER RED - SW 2839
(DAY SKY RAYS & NIGHT SKY)



INTERACTIVE CREAM - SW 6113
(DAY SKY, NIGHT SKY RAYS, STARS, & CAPITAL STRUCTURE)



CRAFT PAPER - SW 6125
(OUTER RING FRONT & SIDE, INNER RING INSIDE, & CAPITAL SHADOWS)



KENDAL GREEN - SW 6467
(RAISED BAND)

COLORS ARE TO MATCH THE SHERWIN WILLIAMS
REFERENCE NUMBERS NOTED ON DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

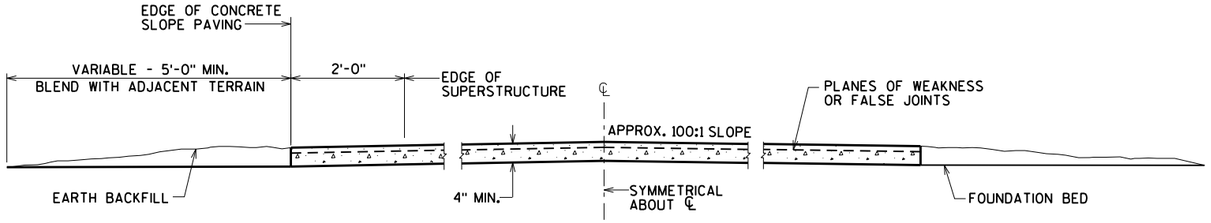
STRUCTURE B-13-847

DRAWN BY JWZ | PLANS CK'D. AEB

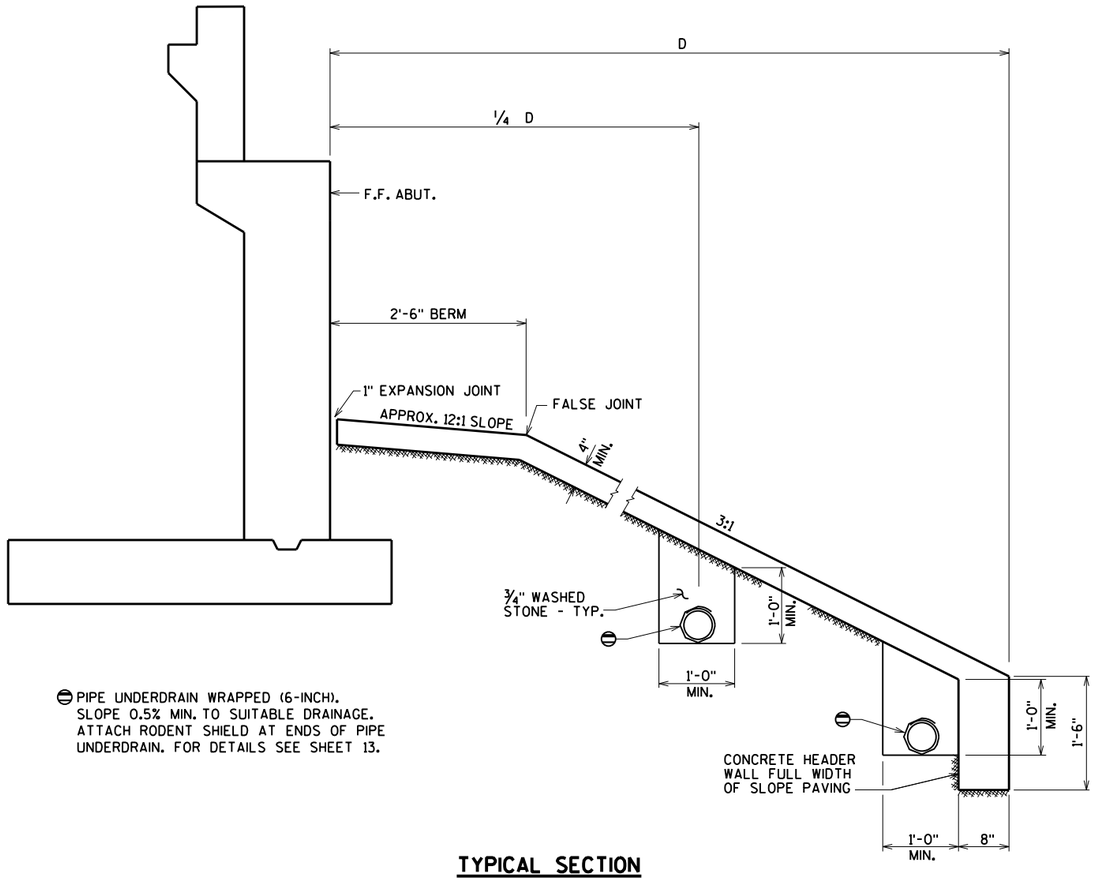
RUSTICATION DETAILS MEDALLION

SHEET 18 OF 19
560

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

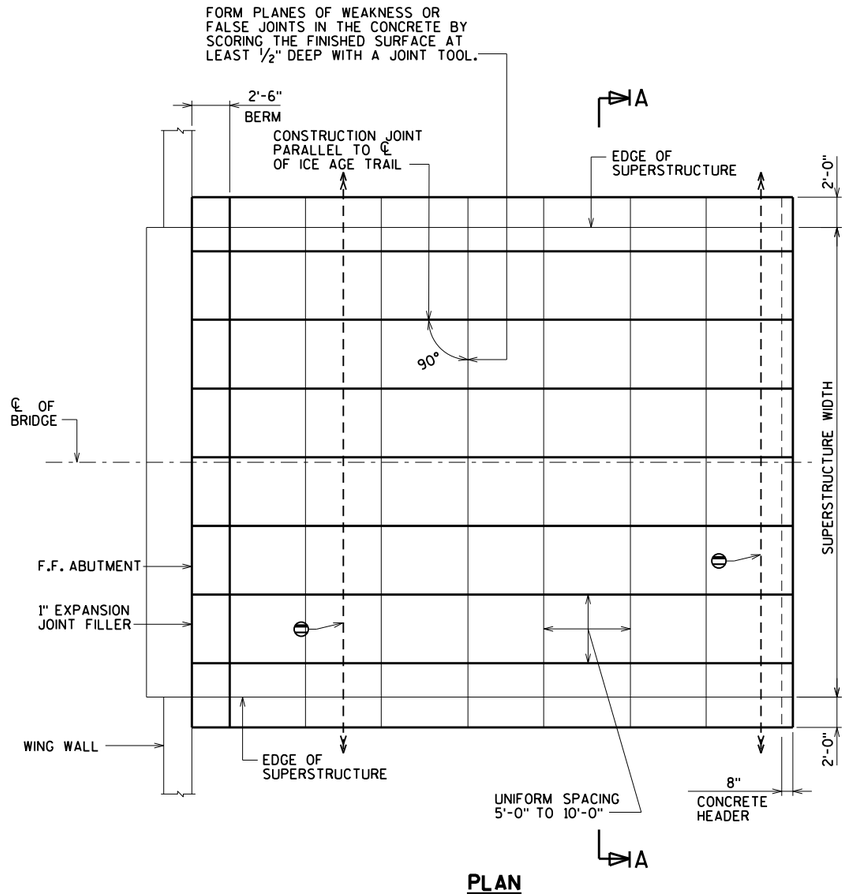


SECTION A-A

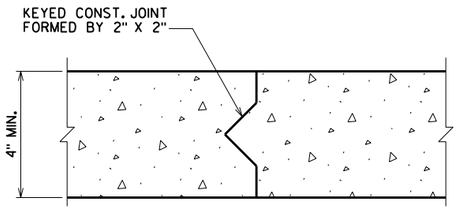


⊖ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. FOR DETAILS SEE SHEET 13.

TYPICAL SECTION



PLAN



CONSTRUCTION JOINT

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN HEREIN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-847

DRAWN BY JWZ | PLANS CK'D. AEB

SLOPE PAVING

SHEET 19 OF 19
561

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

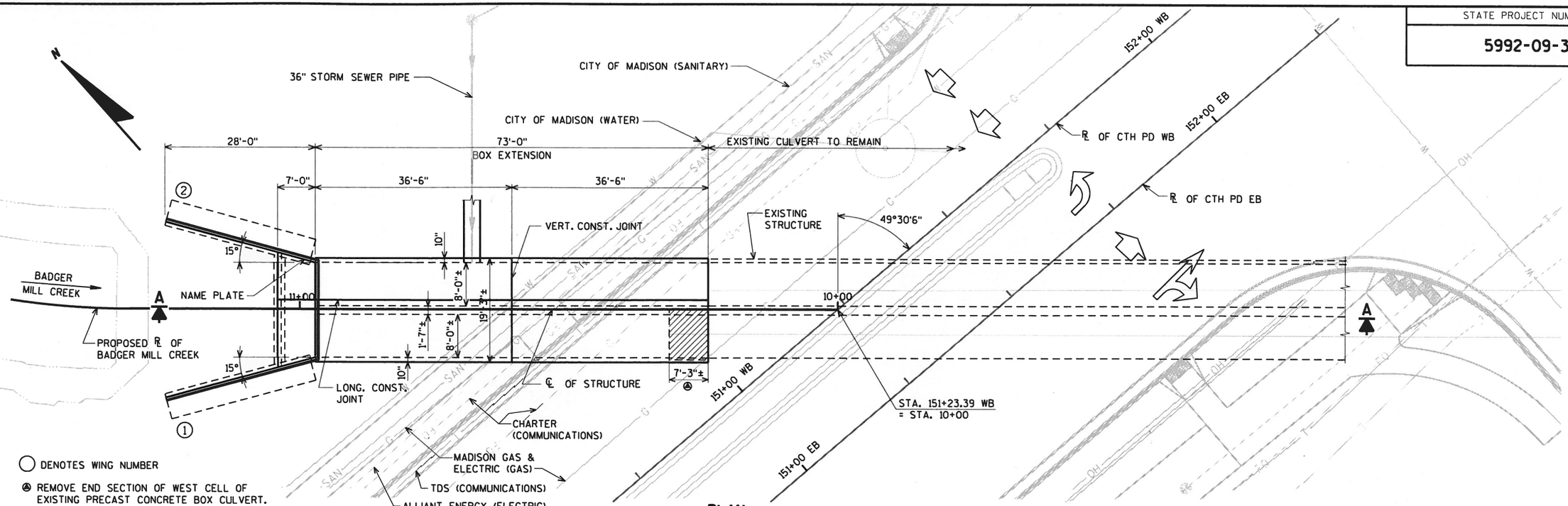
8

8

$PRFNAME$
U:\42-0976.00 - Dane Co, Madison, CTH PD\BRIDGE\420976 B-13-847 spav.dgn

STATE PROJECT NUMBER

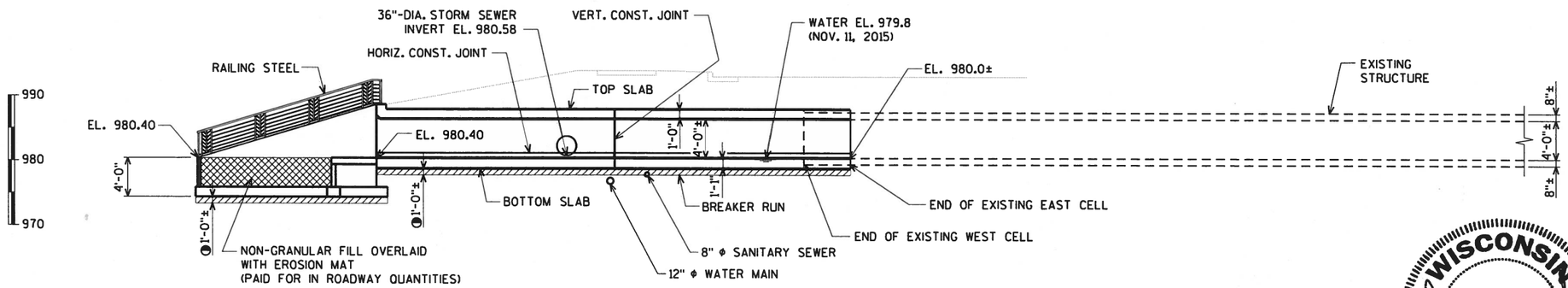
5992-09-31



PLAN

TWIN-CELL CONCRETE BOX CULVERT EXTENSION

FOR GENERAL NOTES, QUANTITIES, AND PROFILE GRADE SEE SHEET 2



◑ EXTEND AS DIRECTED BY THE ENGINEER TO SOUND MATERIAL.

SECTION A

LIST OF DRAWINGS

1. GENERAL PLAN
2. TYPICAL SECTIONS, QUANTITIES AND NOTES
3. SUBSURFACE EXPLORATION
4. APRON DETAILS
5. WING DETAILS
6. BOX DETAILS
7. BOTTOM SLAB BAR STEEL LAYOUT
8. TOP SLAB BAR STEEL LAYOUT
9. BILL OF BARS AND DETAILS
10. RAILING DETAIL

WISCONSIN PROFESSIONAL ENGINEER
DANIEL N. SYDOW
E-38363
WI
10/18/2016

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
DAN SYDOW
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 11/28/16
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-13-848

CTH PD OVER BADGER MILL CREEK

COUNTY: DANE — ~~TOWN~~ CITY ~~VILLAGE~~: MADISON

DESIGN SPEC.: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AEB	JWZ	CLS/JWZ	DNS

GENERAL PLAN

SHEET 562 10

DATE: DATE: DATE:
CHECKED BY: BACK CHECKED BY: CORRECTED BY:

Ayres_pdf.pltcfg
420976 B-13-848 gp.DGN

8

8

STATE PROJECT NUMBER
5992-09-31

GENERAL NOTES

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS. DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS B-13-848" SHALL BE THE EXISTING GROUND LINE.

BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

THE CONCRETE IN THE CUTOFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING APRON WING WALLS.

THE EXISTING STRUCTURE B-13-848, IS A 2 CELL 8'-0"± x 4'-0"± PRECAST CONCRETE BOX CULVERT WITH A BARREL LENGTH OF APPROX. 300'.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW THE ORIGINAL CONSTRUCTION YEAR OF 1993.

IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM, THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER STONE OR GRAVEL MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER STONE OR GRAVEL MATERIAL" IS ACCEPTABLE.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: 1.05
OPERATING RATING FACTOR: 1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 255 KIPS

EARTH LOAD: DESIGNED FOR FILL HEIGHT RANGE OF 3 TO 4 FEET.

MATERIAL PROPERTIES:

CONCRETE MASONRY	f'_c =	3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60)	f_y =	60,000 p.s.i.

TRAFFIC DATA:

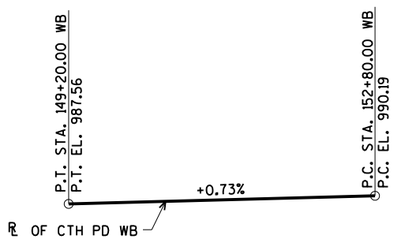
A.D.T. = 13,500 (2017)
A.D.T. = 17,500 (2037)
R.D.S. = 45 M.P.H.

TOTAL ESTIMATED QUANTITIES

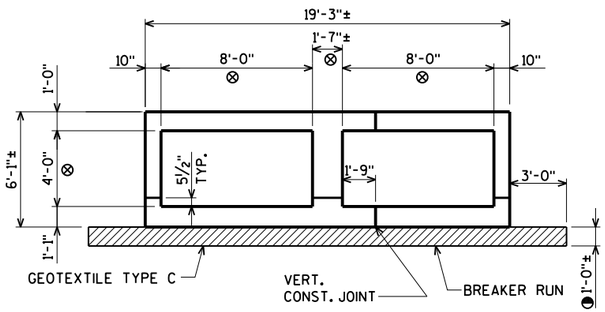
ITEM NUMBER	BID ITEMS	AMOUNT
203.0500.S	REMOVING OLD STRUCTURE OVER WATERWAY STATION 151+23.39 WB	1 LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS B-13-848	1 LS
210.2500	BACKFILL STRUCTURE TYPE B	430 TON
311.0110	BREAKER RUN	200 TON
502.4205	ADHESIVE ANCHORS NO. 5 BAR	56 EACH
504.0100	CONCRETE MASONRY CULVERTS	167 CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	17,400 LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	2,790 LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	25 SY
645.0105	GEOTEXTILE TYPE C	290 SY
SPV.0090.006	RAILING STEEL PEDESTRIAN, B-13-848	77 LF

NON-BID ITEMS

FILLER	¾ SIZE

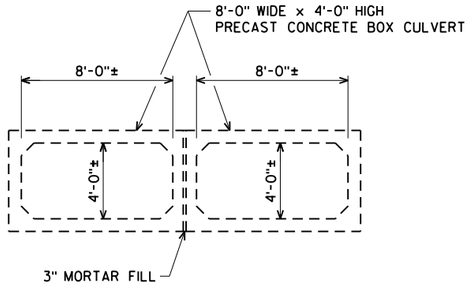


PROFILE GRADE LINE
(CTH PD WB)



TYPICAL SECTION THRU BOX EXTENSION
NOTE: MATCH EXISTING CULVERT OPENING (LOOKING NORTH)

⊗ MATCH EXISTING CULVERT
◑ EXTEND AS DIRECTED BY THE ENGINEER TO SOUND MATERIAL.



TYPICAL SECTION THRU EXISTING BOX CULVERT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-848

DRAWN BY CLS | PLANS CK'D. DNS

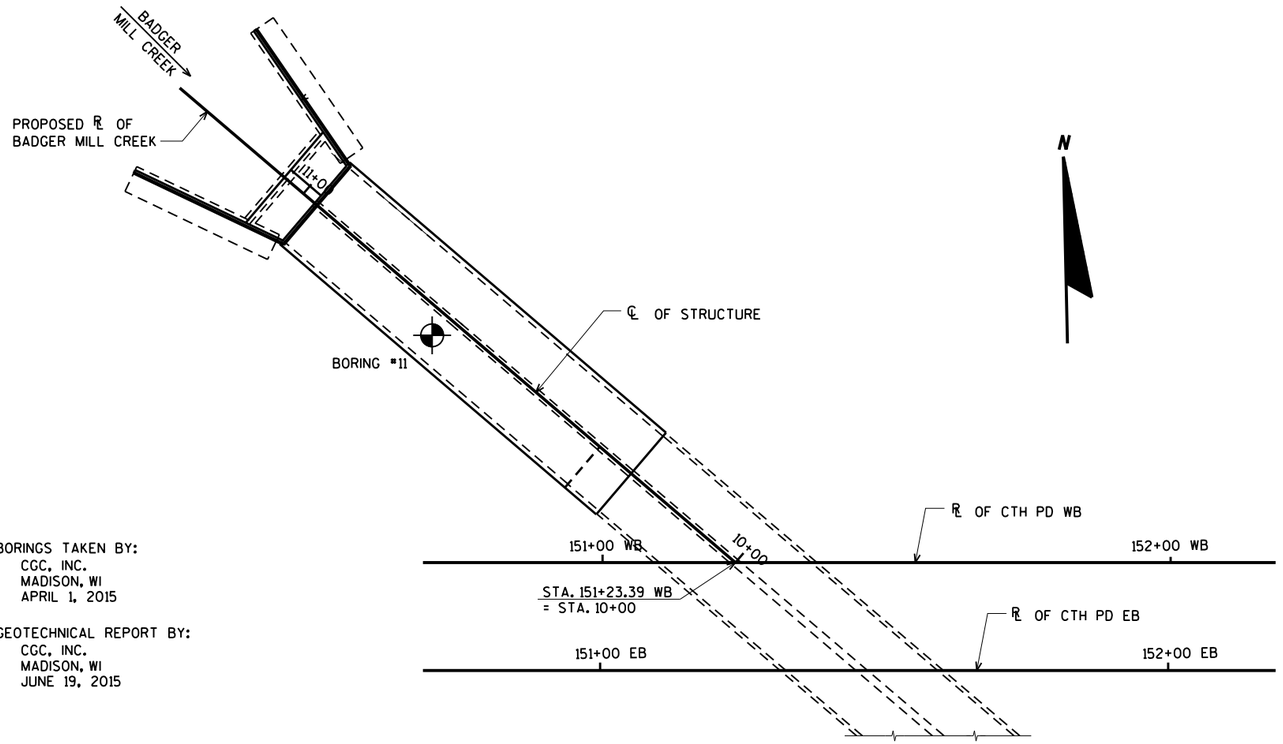
TYPICAL SECTIONS, QUANTITIES AND NOTES

SHEET 2 OF 10
563

8

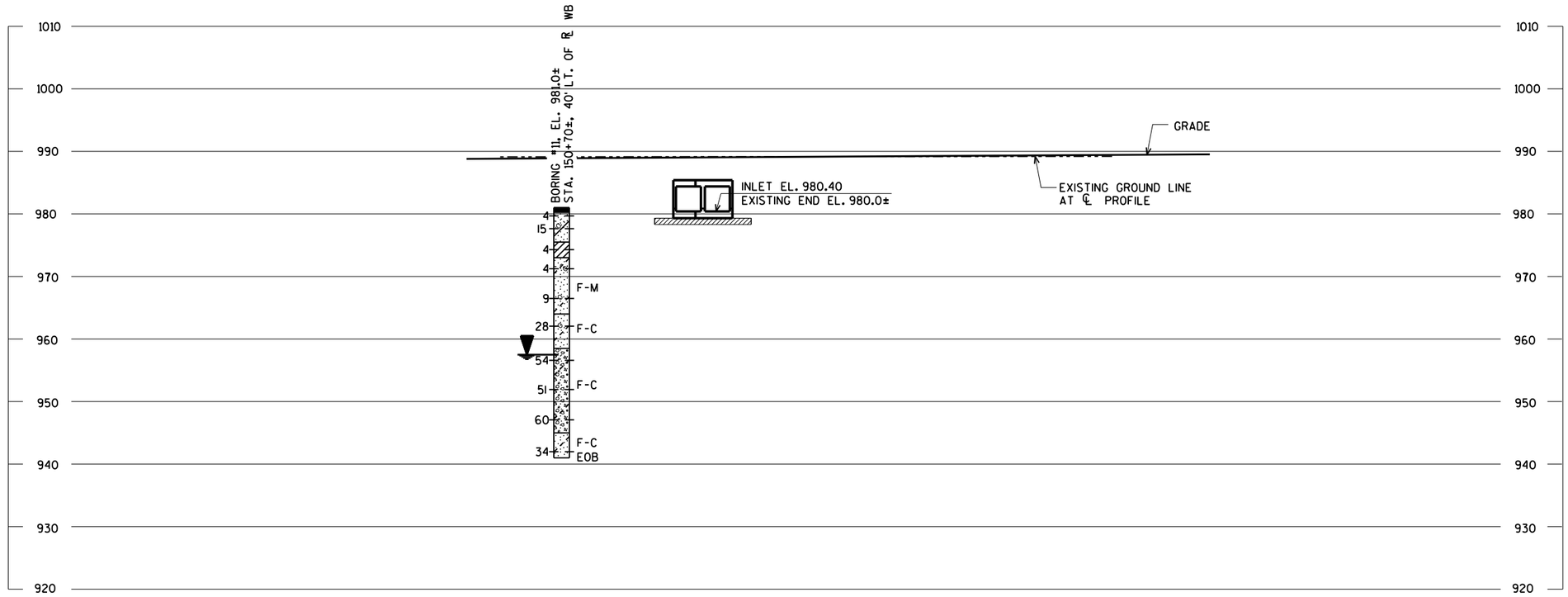
8

$PRFNAME$
U:±42-0976.00 - Dane Co, Madison, CTH PD±BRIDGE±420976 B-13-848 gp.DGN



BORINGS TAKEN BY:
CGC, INC.
MADISON, WI
APRIL 1, 2015

GEOTECHNICAL REPORT BY:
CGC, INC.
MADISON, WI
JUNE 19, 2015



STATE PROJECT NUMBER

5992-09-31

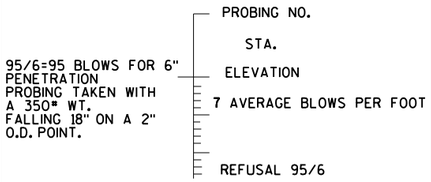
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

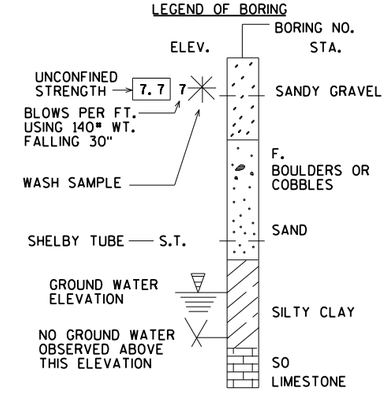
MATERIAL SYMBOLS

TOPSOIL SILT SANDSTONE
SAND PEAT LIMESTONE
GRAVEL CLAY IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-848

DRAWN BY CLS | PLANS CK'D. DNS

SUBSURFACE EXPLORATION

SHEET 3 OF 10
564

8

8

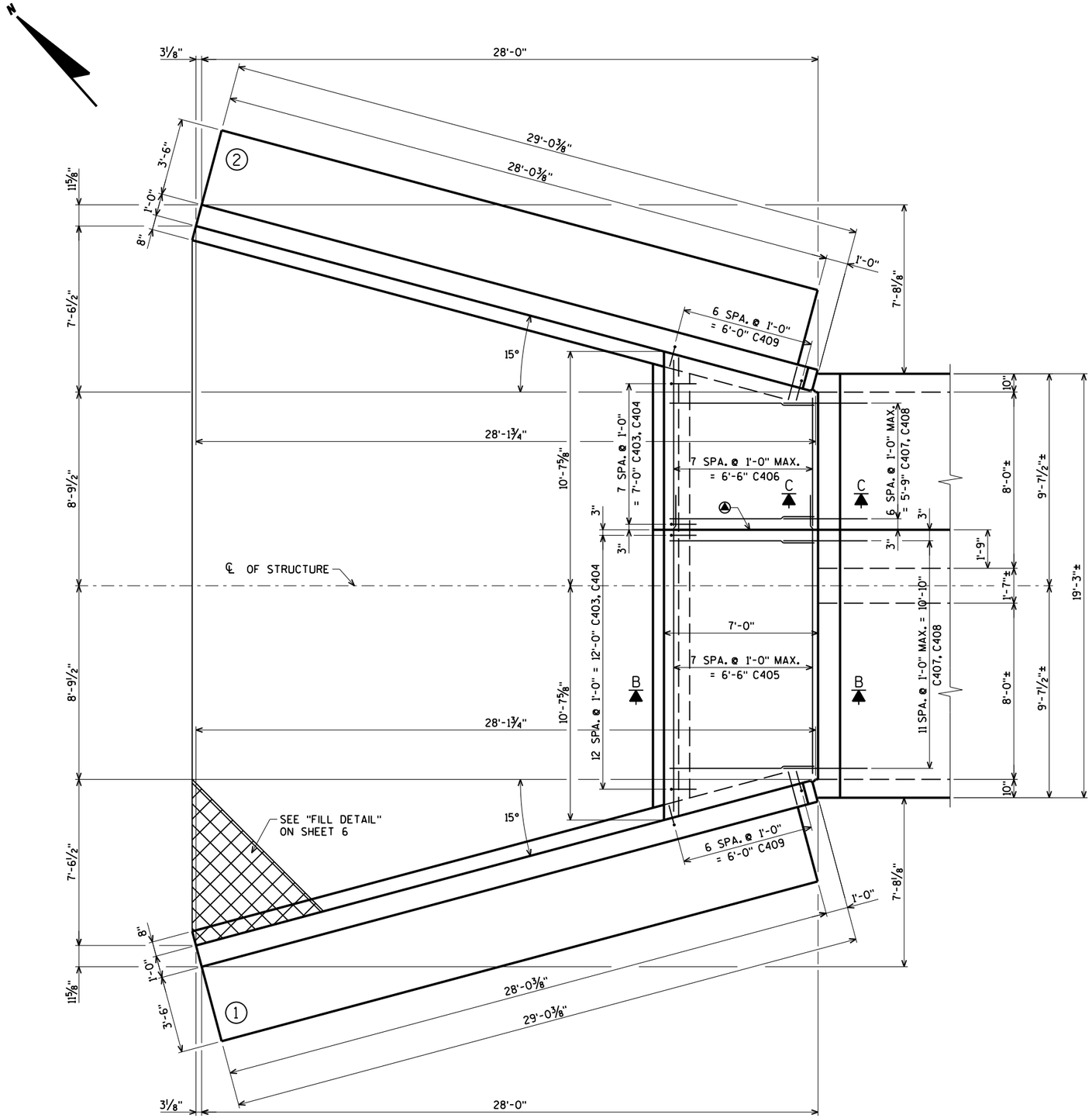
$PRFNAME$
U:\42-0976.00 - Dane Co. Madison, CTH PD+BRIDGE\420976 B-13-848 soils.DGN

8/31/2016

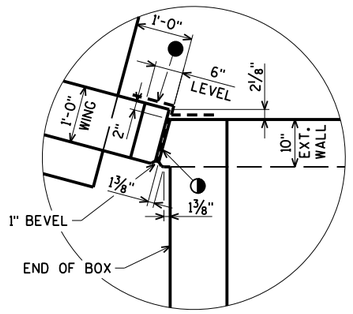
PENTABLE:BReau_shd_util.tbl

STATE PROJECT NUMBER

5992-09-31

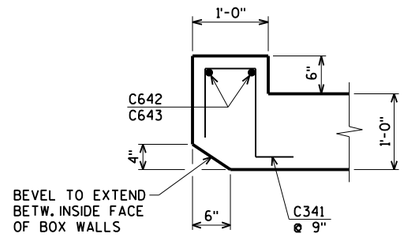


APRON PLAN



NOTE:
DO NOT RUN ANY BAR STEEL REINF. THRU JOINT FILLER.

CORNER DETAIL
(WING 2 SHOWN, WING 1 SIMILAR)



SECTION C

- ● 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM HORIZ. CONST. JT. TO TOP OF WING.
- ◑ ¾" FILLER TO EXTEND FROM HORIZ. CONST. JT. TO TOP OF WING.
- △ LONG. CONST. JOINT. SEE DETAIL ON SHEET 6.

SECTION B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-848

DRAWN BY JWZ | PLANS CK'D. DNS

APRON DETAILS

SHEET 4 OF 10
565

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

$PRFNAME$
U:±42-0976.00 - Dane Co, Madison, CTH PD±BRIDGE±420976 B-13-848 culv dtls.dgn

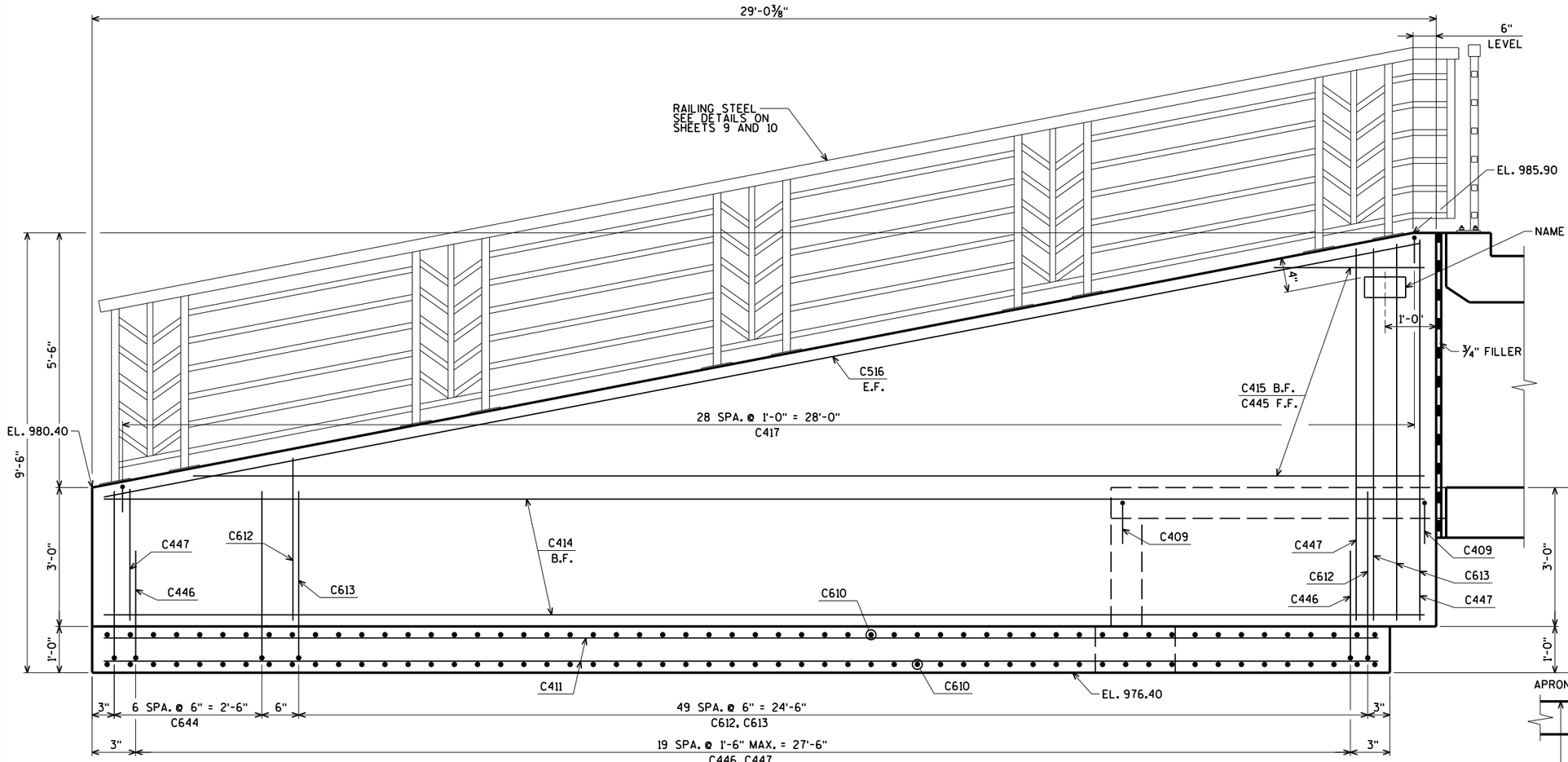
STATE PROJECT NUMBER

5992-09-31

B.F. DENOTES BACK FACE

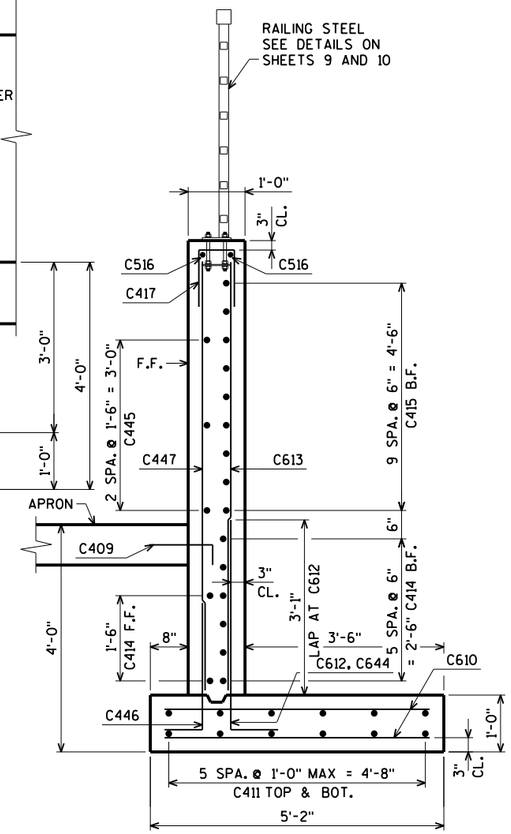
E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

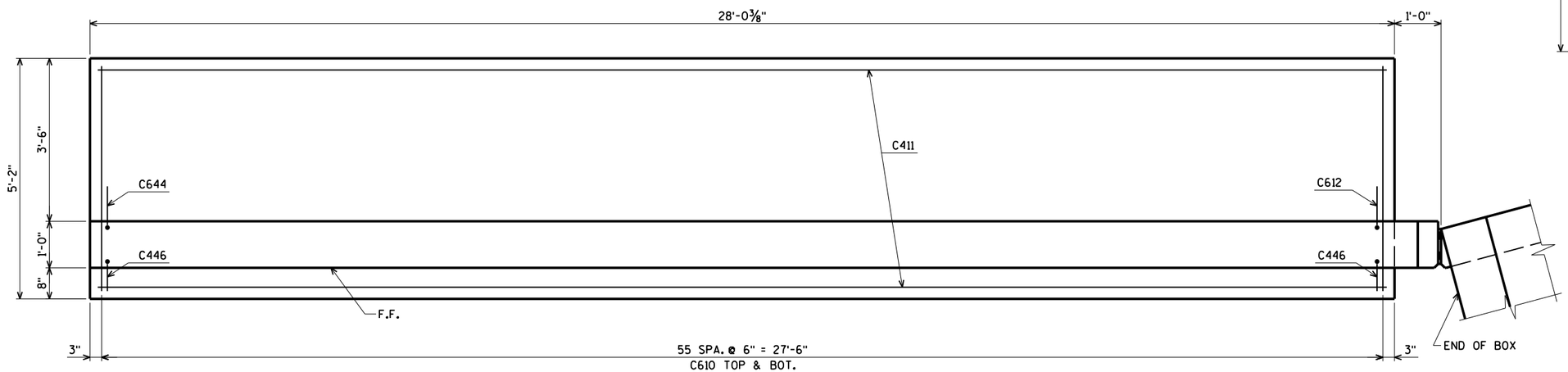


ELEVATION

(WING 2 SHOWN, WING 1 SIMILAR)



TYPICAL SECTION THRU WING



FOOTING PLAN

(WING 2 SHOWN, WING 1 SIMILAR)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-848

DRAWN BY JWZ | PLANS CK'D. DNS

WING DETAILS

SHEET 5 OF 10
566

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

8

8

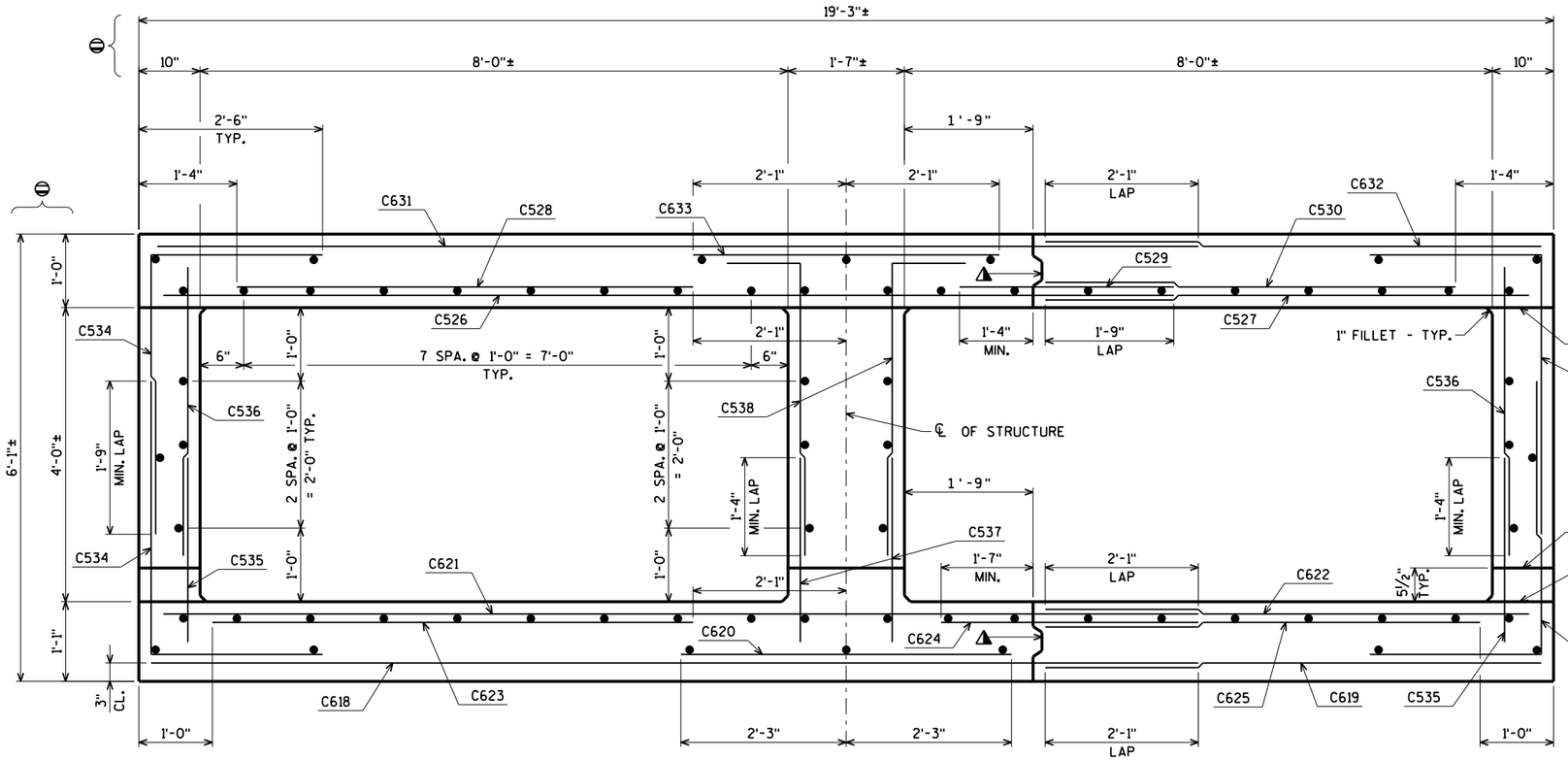
$PRFNAME$
U:±42-0976.00 - Dane Co, Madison, CTH PD±BRIDGE±420976 B-13-848 culv dtls.dgn

9/1/2016

PENTABLE:BReau_shd_util.tbl

STATE PROJECT NUMBER
5992-09-31

ALL LONGITUDINAL BARS IN BOX ARE C439 UNLESS SHOWN OTHERWISE



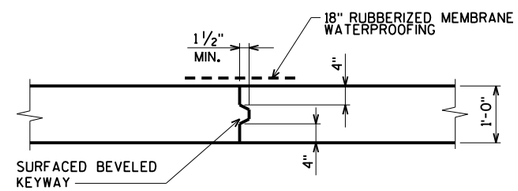
⊞ OPT. CONST. JOINT. OMIT 1" FILLET IF CONST. JOINT IS USED - TYP.

⊖ ADJUST AS NECESSARY TO MATCH THE OPENINGS OF THE EXISTING CULVERT.

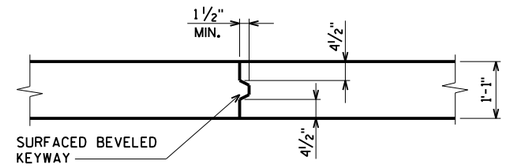
▲ LONG. CONST. JOINT KEYWAY FORMED BY A SURFACED BEVELED 1½" x 4". SEE DETAIL ON THIS SHEET.

◑ EXTEND AS DIRECTED BY THE ENGINEER TO SOUND MATERIAL.

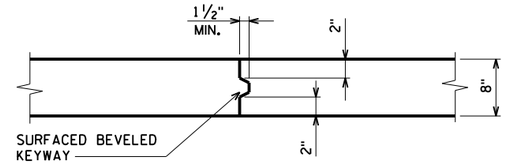
⊠ ALTERNATE CONST. JOINT ONLY ALLOWED AT EXTERIOR WALLS. OMIT 1" FILLET IF USED.



LONG. CONST. JOINT DETAIL
(TOP SLAB OF BOX)

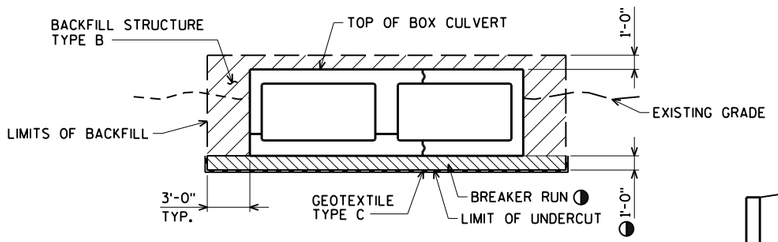


LONG. CONST. JOINT DETAIL
(BOTTOM SLAB OF BOX)

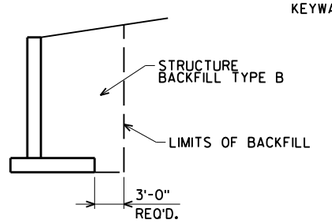


LONG. CONST. JOINT DETAIL
(APRON SLAB)

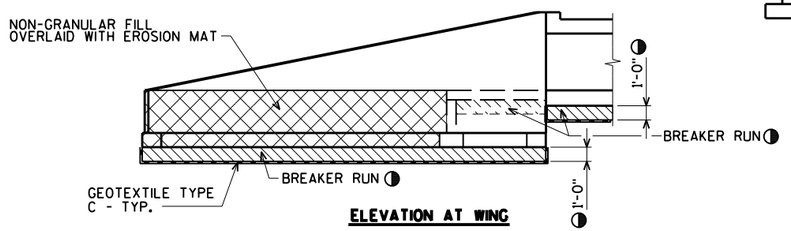
TYPICAL SECTION THRU BOX
(LOOKING NORTH)



SECTION THRU BOX

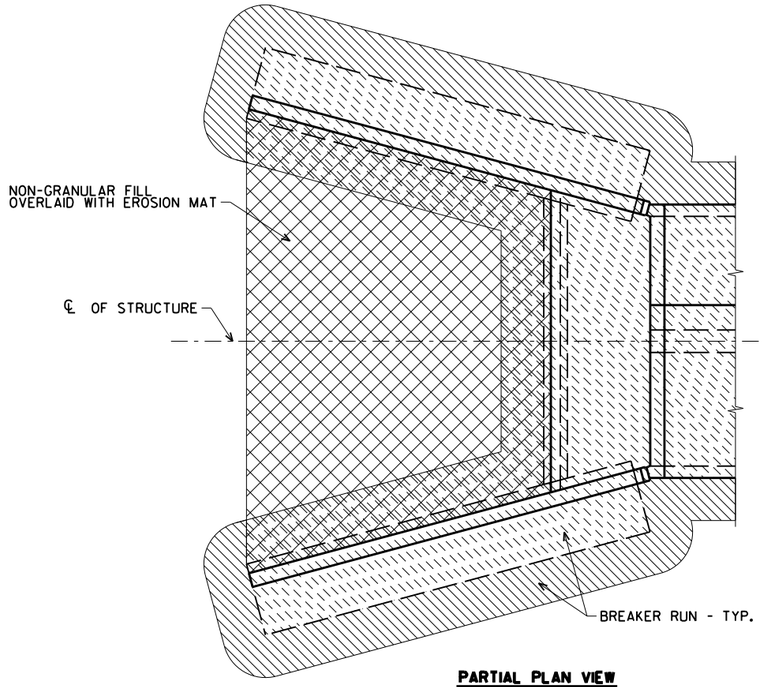


SECTION THRU WING



ELEVATION AT WING

BACKFILL DETAIL



PARTIAL PLAN VIEW

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-848

DRAWN BY JWZ | PLANS CK'D. DNS

BOX DETAILS

SHEET 6 OF 10
567

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

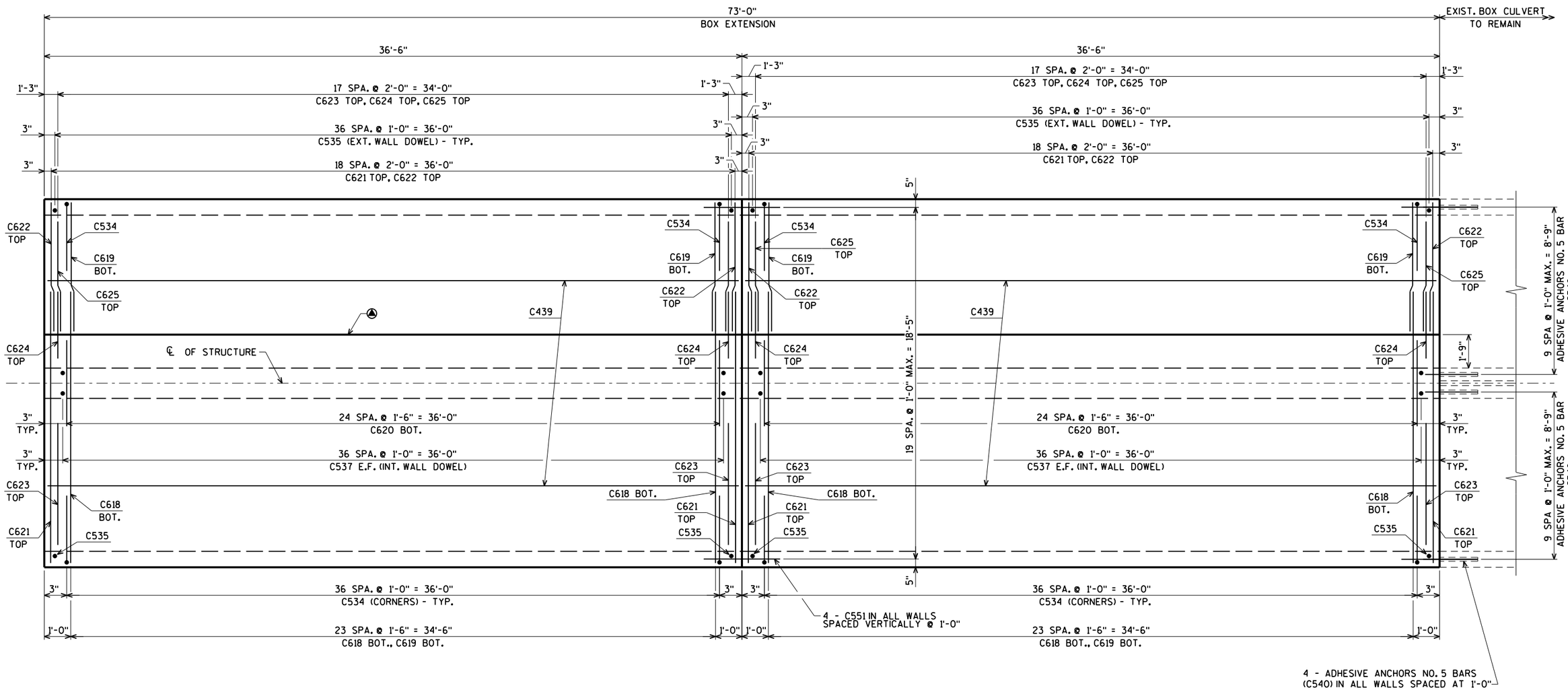
8

8

$PRFNAME$
U:±42-0976.00 - Dane Co, Madison, CTH PD±BRIDGE±420976 B-13-848 culv dtls.dgn

STATE PROJECT NUMBER

5992-09-31



BOTTOM SLAB PLAN

E.F. DENOTES EACH FACE

▲ LONG. CONST. JOINT
SEE DETAIL ON SHEET 6

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-848

DRAWN BY JWZ | PLANS CK'D. DNS

BOTTOM SLAB BAR STEEL LAYOUT

SHEET 7 OF 10
568

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

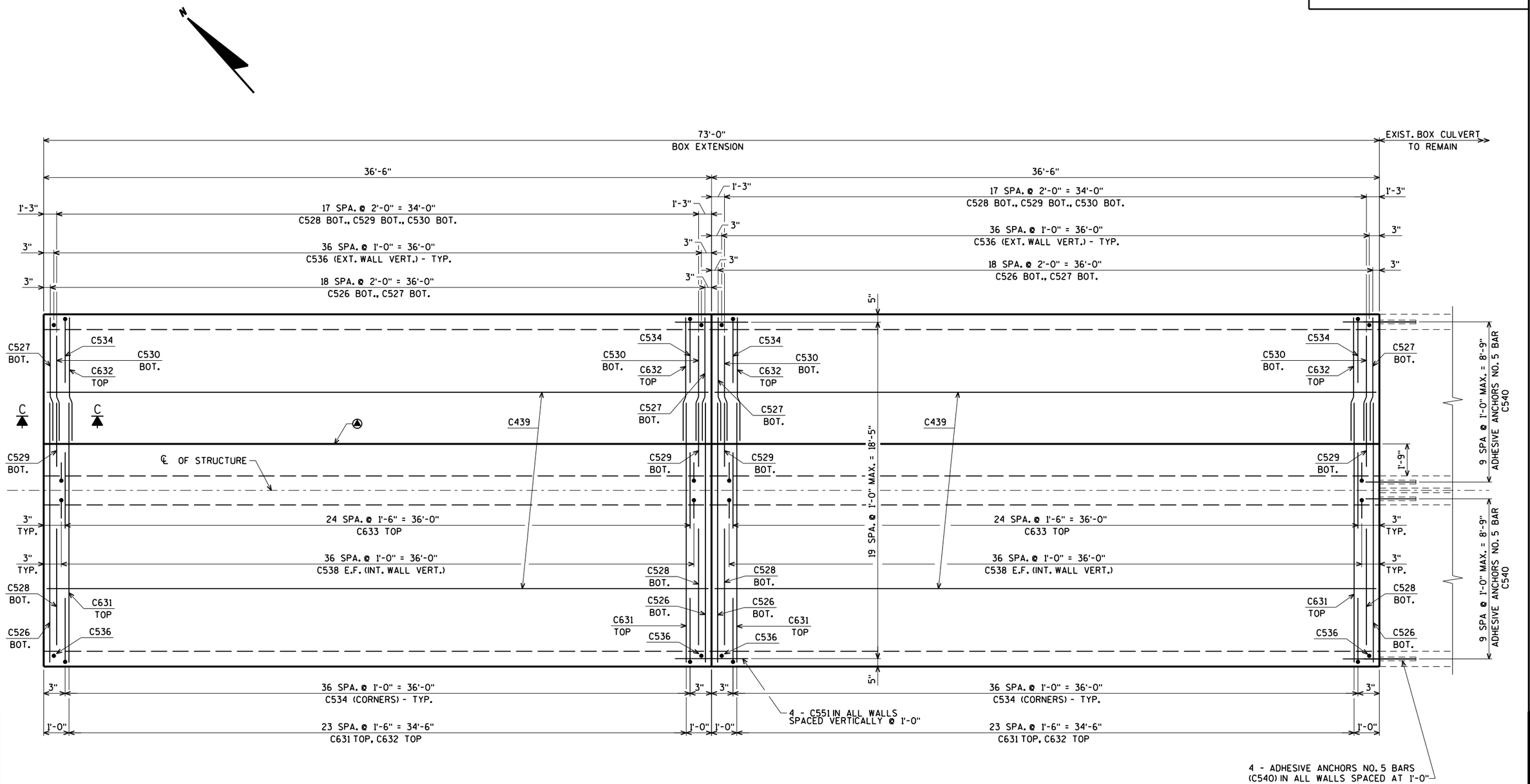
$PRFNAME$
Ut:42-0976.00 - Dane Co, Madison, CTH PD#BRIDGE#420976 B-13-848 culv dtls.dgn

8/31/2016

PENTABLE:BReau_shd_util.tbl

STATE PROJECT NUMBER

5992-09-31



TOP SLAB PLAN

SEE SHEET 4 FOR SECTION C

E.F. DENOTES EACH FACE

LONG. CONST. JOINT
SEE DETAIL ON SHEET 6

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-848

DRAWN BY JWZ | PLANS CK'D. DNS

TOP SLAB BAR STEEL LAYOUT

SHEET 8 OF 10
569

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

8

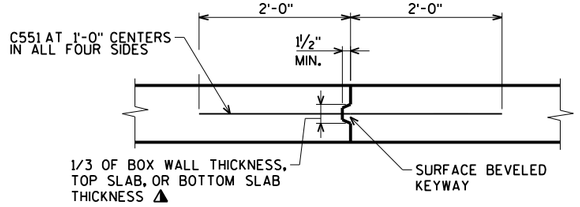
8

$PRFNAME$
U:\42-0976.00 - Dane Co, Madison, CTH PD\BRIDGE\420976 B-13-848 culv dtls.dgn

9/1/2016

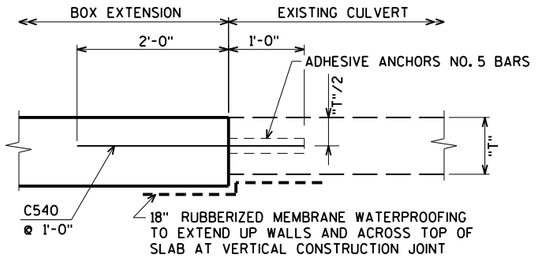
PENTABLE:BReau_shd_util.tbl

$PRFNAME$
U:\42-0976.00 - Dane Co. Madison, CTH PD\BRIDGE\420976 B-13-848 culv dtls.dgn

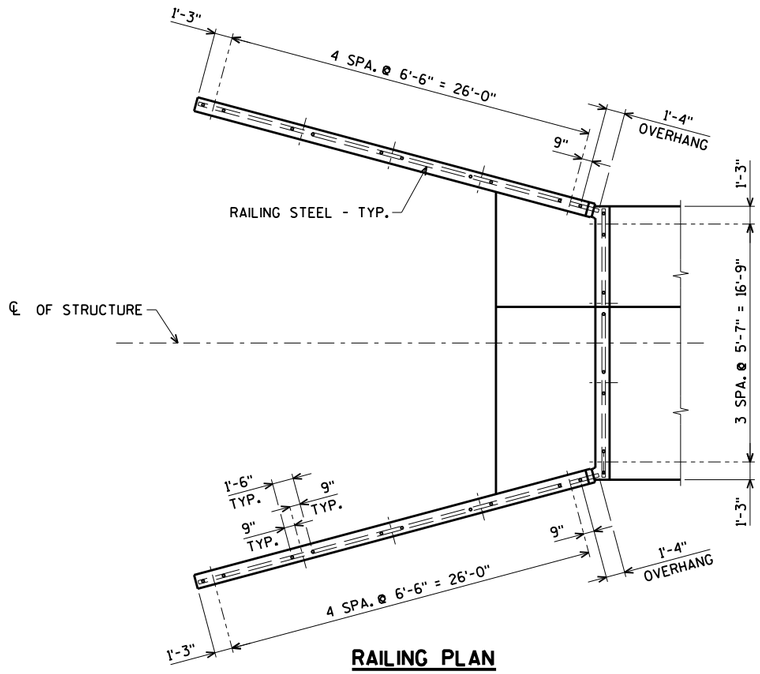


▲ IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY USE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING.

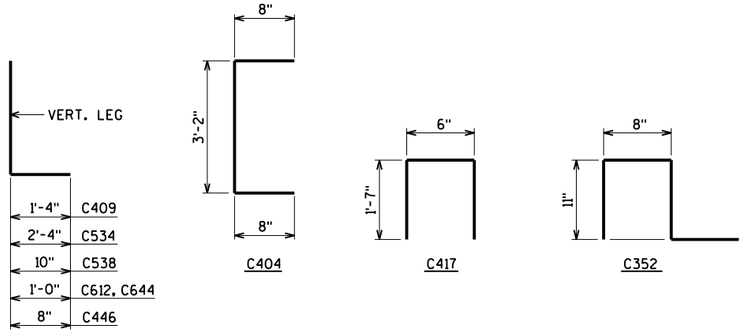
VERT. CONST. JOINT
(ALL WALLS AND SLABS)



VERT. CONST. JOINT AT EXISTING CULVERT
(EXTERIOR WALL & TOP OF SLAB SHOWN)
(INTERIOR WALL & BOTTOM SLAB SIMILAR)



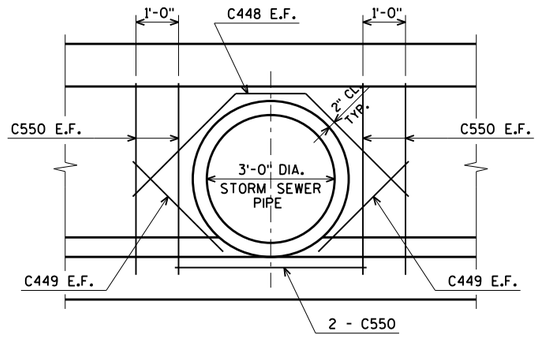
RAILING PLAN



BAR SERIES TABLE

BAR MARK	NO REQ'D.	LENGTH
C405	1 SERIES OF 8	10'-11" TO 12'-10"
C406	1 SERIES OF 8	5'-11" TO 7'-8"
C613	2 SERIES OF 52	3'-3" TO 8'-0"
C415	2 SERIES OF 10	2'-10" TO 26'-0"
C445	2 SERIES OF 3	10'-6" TO 26'-0"
C447	2 SERIES OF 21	2'-7" TO 7'-11"

BUNDLE AND TAG EACH SERIES SEPARATELY.



FIELD CUT WALL REINFORCEMENT 2" CLEAR AROUND OPENING

STORM SEWER WALL PENETRATION DETAIL

BILL OF BARS

BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	17,400* UNCOATED 2,790* COATED LOCATION
C401		5	12-10			CUTOFF WALL
C402		5	7-10			CUTOFF WALL
C403		21	1-4			CUTOFF WALL FOOTING
C404		21	4-4	X		CUTOFF WALL
C405		8	11-11		⊗	APRON
C406		8	6-9		⊗	APRON
C407		19	6-8			APRON
C408		19	3-10			APRON DOWEL
C409		14	1-9	X		APRON DOWEL
C610		224	4-8			WING FOOTING TOP & BOT.
C411		24	27-6			WING FOOTING TOP & BOT.
C612	X	100	4-9	X		WING FOOTING DOWEL B.F.
C613	X	100	5-8		⊗	WING BODY VERT. B.F.
C414	X	16	28-6			WING BODY HORIZ. E.F.
C415	X	20	14-5		⊗	WING BODY HORIZ. B.F.
C516	X	4	29-0			WING BODY DIAG.
C417	X	58	3-6	X		WING BODY TIE
C618		48	14-3			BOX BOT. SLAB TRANS. BOT.
C619		48	6-9			BOX BOT. SLAB TRANS. BOT.
C620		50	4-6			BOX BOT. SLAB TRANS. BOT.
C621		38	14-3			BOX BOT. SLAB TRANS. TOP
C622		38	6-9			BOX BOT. SLAB TRANS. TOP
C623		36	6-7			BOX BOT. SLAB TRANS. TOP
C624		36	3-10			BOX BOT. SLAB TRANS. TOP
C625		36	5-11			BOX BOT. SLAB TRANS. TOP
C526		38	13-11			BOX TOP SLAB TRANS. BOT.
C527		38	6-9			BOX TOP SLAB TRANS. BOT.
C528		36	6-3			BOX TOP SLAB TRANS. BOT.
C529		36	3-3			BOX TOP SLAB TRANS. BOT.
C530		36	5-7			BOX TOP SLAB TRANS. BOT.
C631		48	14-3			BOX TOP SLAB TRANS. TOP
C632		48	6-9			BOX TOP SLAB TRANS. TOP
C633		50	4-2			BOX TOP SLAB TRANS. TOP
C534		296	6-0	X		BOX CORNERS
C535		148	2-9			BOX EXT. WALL DOWEL
C536		148	4-2			BOX EXT. WALL VERT.
C537		148	2-9			BOX INT. WALL DOWEL
C538		148	4-11	X		BOX INT. WALL VERT.
C439		136	36-2			BOX LONG.
▲ C540		56	3-0			BOX VERT. CONST. JOINT
C341	X	26	2-10	X		BOX HEADER
C642	X	2	11-10			BOX HEADER
C643	X	2	6-9			BOX HEADER
C644	X	14	4-3	X		WING FOOTING DOWEL B.F.
C445	X	6	18-3		⊗	WING BODY HORIZ. F.F.
C446	X	40	2-10	X		WING FOOTING DOWEL F.F.
C447	X	42	5-3		⊗	WING BODY VERT. F.F.
C448		2	8-4	X		BOX EXT. WALL AT PIPE
C449		4	3-0			BOX EXT. WALL AT PIPE
C550		10	4-6			BOX EXT. WALL AT PIPE
C551		52	4-0			BOX HORIZ. DOWELS AT JOINT

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

⊗ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

▲ ADHESIVE ANCHORS NO. 5 BAR.

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-848

DRAWN BY JWZ | PLANS CK'D. DNS

BILL OF BARS AND DETAILS

SHEET 9 OF 10
570

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

8

8

STATE PROJECT NUMBER

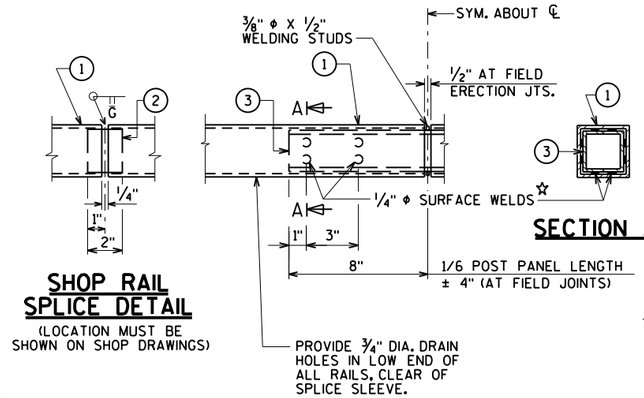
5992-09-31

LEGEND

(1) STRUCTURAL TUBING 1½" X 1½" X 3/16" OR 3" X 3" X 3/16" RAILS. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION AND EXPANSION JOINTS.

(2) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".

(3) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4" ℄ FIELD ERECTION JOINT.

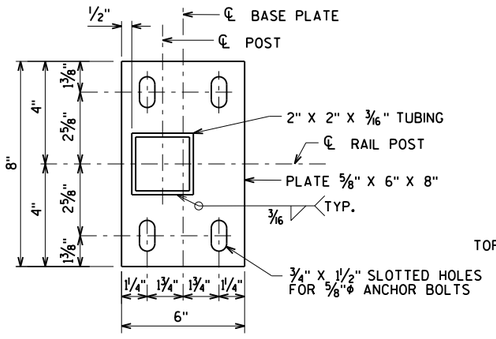


SHOP RAIL SPLICE DETAIL

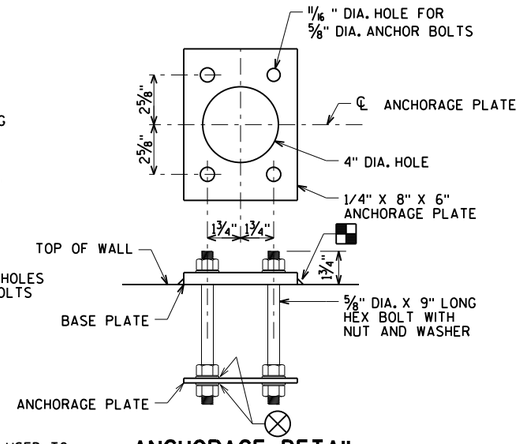
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)

FIELD ERECTION JOINT DETAIL

☆ MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



TYPICAL RAIL POST BASE PLATE



ANCHORAGE DETAIL

NOTES

THE BID ITEM SHALL BE "RAILING STEEL PEDESTRIAN, B-13-847" WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT, AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

RAILS AND POSTS TO BE A.S.T.M. A500, GRADE B. BASE PLATES, RECTANGULAR SLEEVES, AND SHIMS TO BE A.S.T.M. A709, GRADE 36.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET POSTS VERTICAL.

ALL POST SPACING IS TAKEN HORIZ. ALONG CENTER LINE OF RAILING AT BASE OF POST.

SHIMS SHALL BE USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT AND SHALL BE GALVANIZED.

■ CAULK AROUND PERIMETER OF BASE PLATES AND FILL PORTION OF SLOTTED HOLES AROUND ANCHOR BOLTS IN BASE PLATE WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

CUT BOTTOM OF POST TO MAKE VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE EITHER STAINLESS STEEL OR 5/8"-DIA. X 9"-LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE - 4 EQUIV. STAINLESS STEEL CONCRETE ADHESIVE ANCHORS, 5/8"-DIA. EMBED A MINIMUM OF 7".

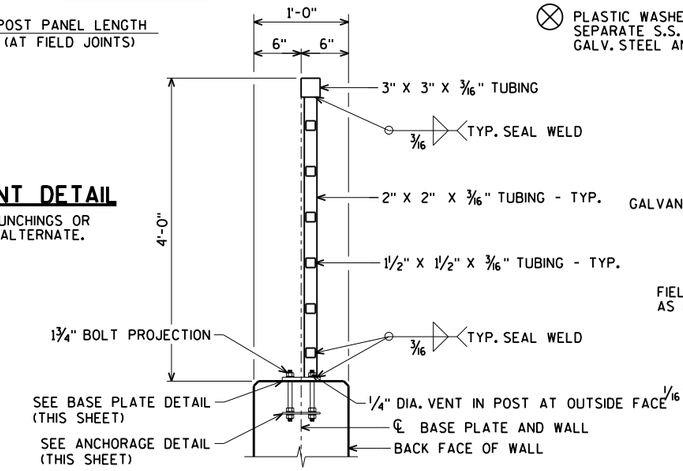
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE NOT MORE THAN 3 OR 4 POSTS.

ALL MATERIALS, EXCEPT ANCHOR BOLTS, SHALL BE GALVANIZED AFTER FABRICATION, PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS.

PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE COLOR SHALL DUPLICATE SHERWIN WILLIAMS "KENDAL GREEN" (SW6467).

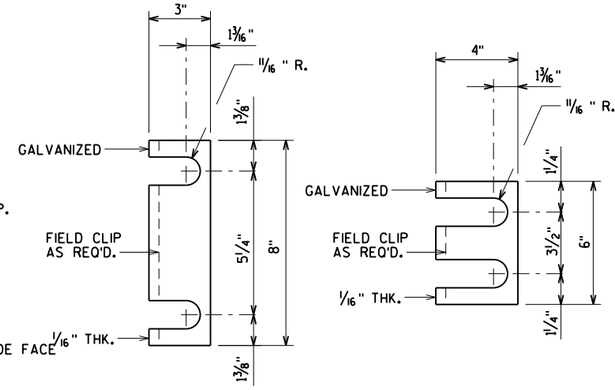
VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

TOUCH UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



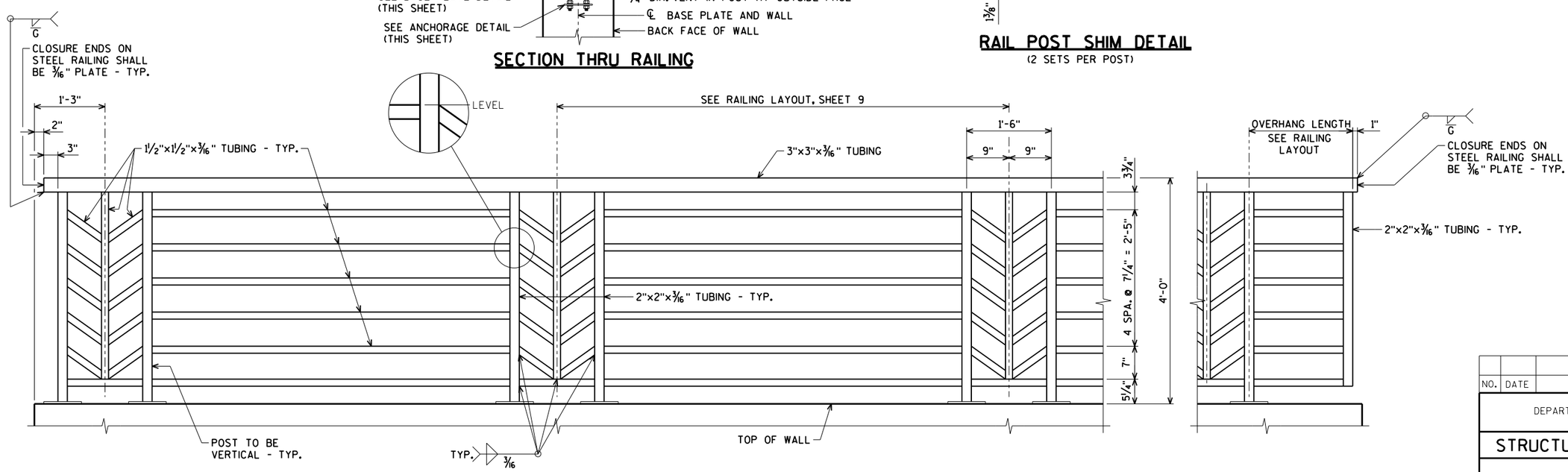
SECTION THRU RAILING

⊗ PLASTIC WASHERS USED TO SEPARATE S.S. WASHER & GALV. STEEL ANCHOR PLATE.



RAIL POST SHIM DETAIL

(2 SETS PER POST)



ELEVATION OF RAILING

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-848

DRAWN BY JWZ | PLANS CK'D. DNS

RAILING DETAIL

SHEET 10 OF 10
571

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

8

8

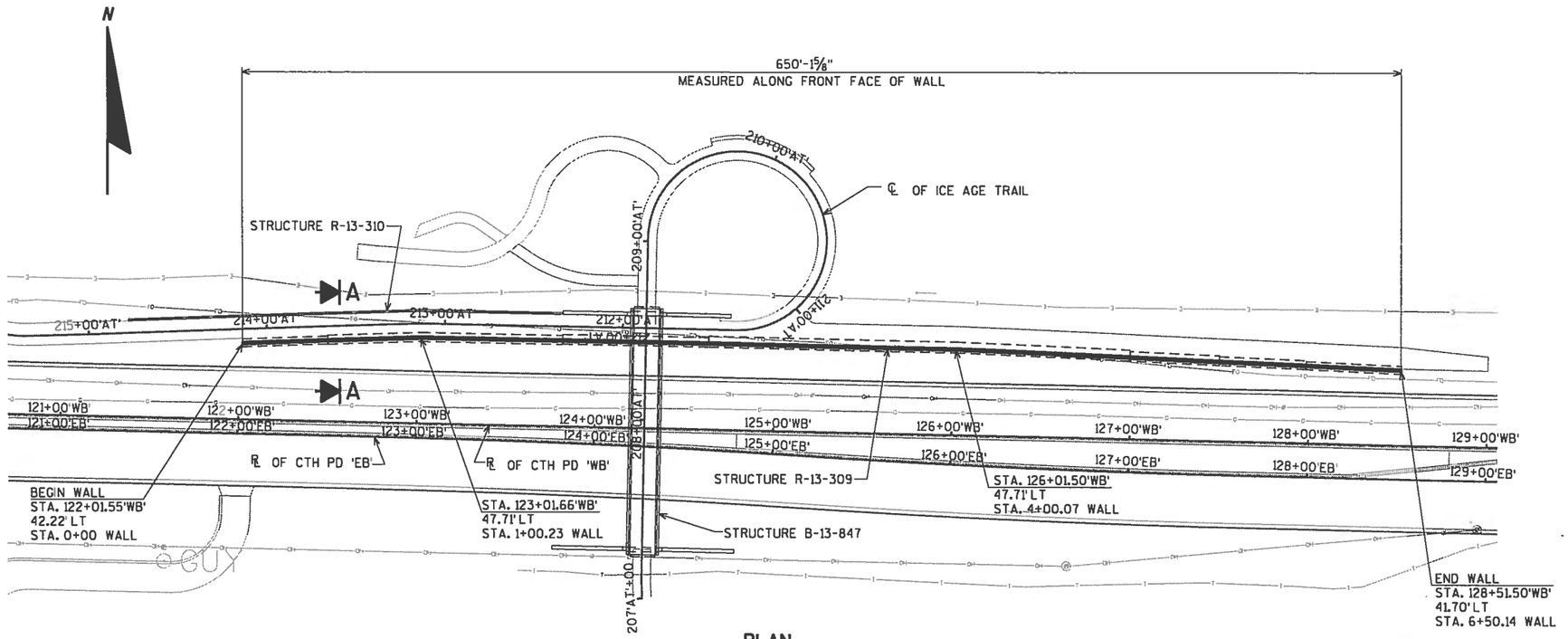
$PRFNAME$
Ut:42-0976.00 - Dane Co, Madison, CTH PD±BRIDGE±420976 B-13-848 rail.dgn

10/17/2016

PENTABLE:BReau_shd_util.tbl

STATE PROJECT NUMBER

5992-09-31



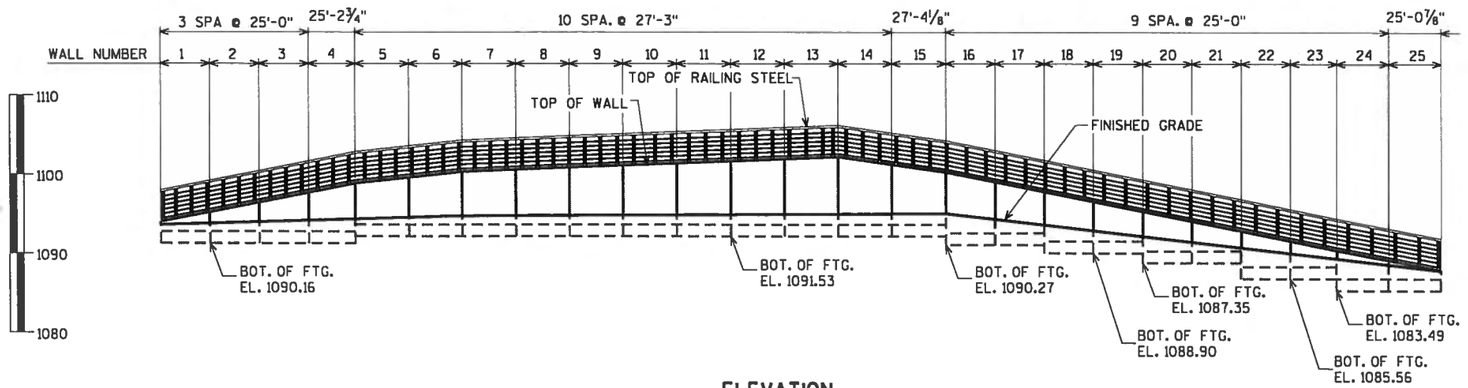
PLAN

CAST-IN-PLACE CONCRETE RETAINING WALL

FOR SECTION A-A SEE SHEET 2.

GEOMETRY TABLE

WALL STATION	ROADWAY STATION	OFFSET TO F.F. WALL	TOP OF WALL ELEV.	FINISHED GRADE ELEV.
0+00.00	122+01.55'WB'	42.22' LT	1094.00'	1093.37'
0+48.52	122+50.00'WB'	44.88' LT	1096.22'	1093.84'
0+98.60	123+00.00'WB'	47.62' LT	1098.50'	1094.34'
1+48.57	123+50.00'WB'	47.62' LT	1100.35'	1094.73'
1+98.57	124+00.00'WB'	47.62' LT	1100.79'	1094.79'
2+48.57	124+50.00'WB'	47.62' LT	1101.23'	1094.85'
2+98.57	125+00.00'WB'	47.62' LT	1101.66'	1094.92'
3+48.57	125+50.00'WB'	47.62' LT	1102.10'	1094.98'
3+98.57	126+00.00'WB'	47.62' LT	1100.35'	1095.04'
4+48.58	126+50.00'WB'	46.54' LT	1097.89'	1093.62'
4+98.59	127+00.00'WB'	45.34' LT	1095.43'	1092.20'
5+48.61	127+50.00'WB'	44.14' LT	1092.97'	1090.77'
5+98.62	128+00.00'WB'	42.94' LT	1090.51'	1089.35'
6+48.63	128+50.00'WB'	41.73' LT	1088.05'	1087.93'
6+50.14	128+51.50'WB'	41.70' LT	1087.95'	1087.87'



ELEVATION

(LOOKING AT FRONT FACE OF WALL)

DESIGN DATA

LIVE LOAD:

100 PSF SURCHARGE

MATERIAL PROPERTIES:

CONCRETE MASONRY ——— f'_c = 3,500 p.s.i.

HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) ——— f_y = 60,000 p.s.i.

FOUNDATION DATA:

RETAINING WALL TO BE SUPPORTED ON MATERIAL WITH A MINIMUM FACTORED BEARING RESISTANCE OF 10,000 psf. A GEOTECHNICAL ENGINEERWILL DETERMINE THE FACTORED BEARING RESISTANCE BY VISUALINSPECTION PRIOR TO CONSTRUCTION OF THE RETAINING WALL FOOTING.

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES AND NOTES
3. SUBSURFACE EXPLORATION
4. WALLS 1 THRU 3
5. WALLS 4 THRU 6
6. WALLS 7 THRU 9
7. WALLS 10 THRU 12
8. WALLS 13 THRU 15
9. WALLS 16 THRU 18
10. WALLS 19 THRU 21
11. WALLS 22 AND 23
12. WALLS 24 AND 25
13. WALL SECTIONS A THRU D
14. BILL OF BARS AND DETAILS
15. RAILING DETAIL

WISCONSIN
DANIEL N. SYDOW
E-38363
WI
PROFESSIONAL ENGINEER
12/9/2016

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
DAN SYDOW
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 12/09/16
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-13-309

RETAINING WALL ALONG CTH PD

COUNTY	TOWN/CITY/VILLAGE
DANE	MADISON

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AEB	JWZ	CKJ	DNS

GENERAL PLAN

SHEET 1 OF 15
572

DATE:
DATE:
DATE:
CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

11X17-5200.plt
420976 Wall R-13-309 gp CKJ 7-16.dgn

8

8

12/9/2016 black.tbl LD

STATE PROJECT NUMBER

5992-09-31

SOIL PARAMETERS

SOIL TYPE	FRICTION ANGLE ϕ	MOIST UNIT WEIGHT	COHESION, c_u	FACTORED BEARING RESISTANCE
MEDIUM DENSE SAND, SOME SILT AND GRAVEL	32°	125 pcf	0 psf	4,000 psf
WEATHERED TO COMPETENT BEDROCK	45°	145 pcf	0 psf	10,000 psf

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

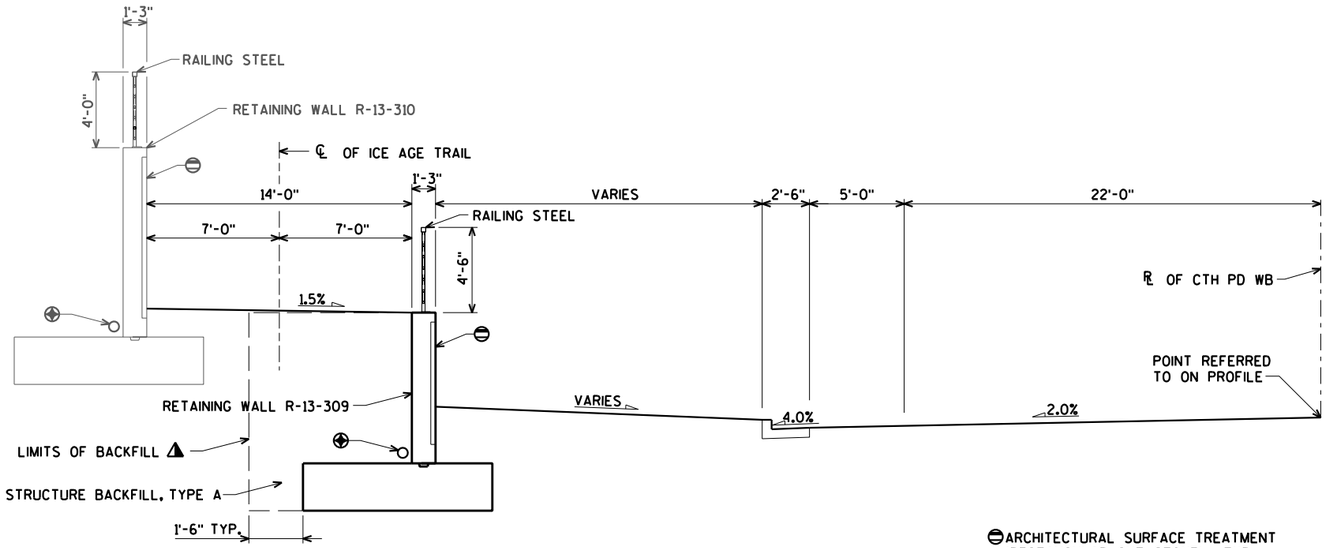
AT THE BACK FACE OF THE RETAINING WALL ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES RETAINING WALLS R-13-309" SHALL BE THE EXISTING GROUND

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

AT THE BACKFACE OF WALL ALL VOLUME WHICH CANNOT BE PLACED BEFORE WALL CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

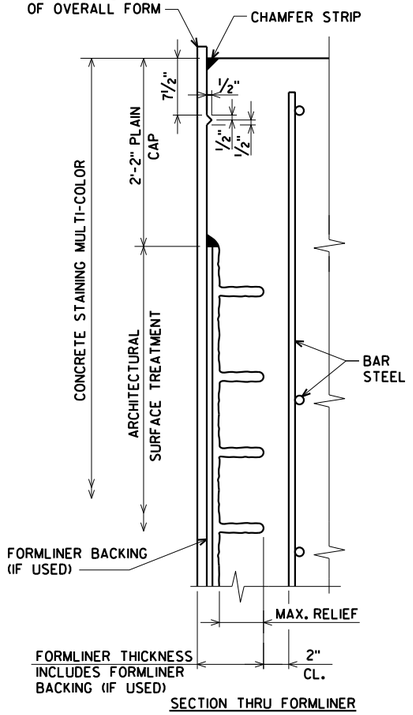
UNSUITABLE MATERIAL UNDER THE FOOTING SHALL BE REMOVED AND REPLACED WITH "SELECT CRUSHED MATERIAL" AS DIRECTED BY THE ENGINEER. OVEREXCAVATION IS INCLUDED IN THE BID ITEM "SELECT CRUSHED MATERIAL".



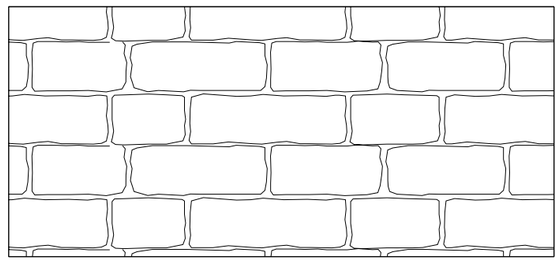
SECTION A-A

⊖ ARCHITECTURAL SURFACE TREATMENT (RECTANGULAR CUT STONE) - TYP.

⊕ PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN. TO SUITABLE DRAINAGE



SECTION THRU FORMLINER



RECTANGULAR CUT STONE

FORMLINER THICKNESS = 3¾"
SIZE = 14" TO 18" COURSING. STONE LENGTH VARIES 16" TO 72"
MAX. RELIEF = 3"

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	AMOUNT
	206.3000	EXCAVATION FOR STRUCTURES RETAINING WALLS	1 LS
	210.1500	BACKFILL STRUCTURE TYPE A	2,100 TON
	312.0110	SELECT CRUSHED MATERIAL	60 TON
	504.0500	CONCRETE MASONRY RETAINING WALLS	504 CY
	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	19,130 LB
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	26,720 LB
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	30 SY
①	517.1015.S	CONCRETE STAINING MULTI-COLOR R-13-309	4,630 SF
	517.1050.S	ARCHITECTURAL SURFACE TREATMENT R-13-309	3,410 SF
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	670 LF
②	SPV.0090.007	RAILING STEEL PEDESTRIAN R-13-309	650 LF

① BASE COLOR TO BE INTERACTIVE CREAM (SW6113) AND TOTALLY TAN (SW6115) WITH PEARL GRAY (FEDERAL COLOR 26622) MORTAR LINES.

② PAINT COLOR TO BE KENDAL GREEN (SW6467).

FORMLINER COURSING ON RETAINING WALLS SHALL BE LEVEL

MULTI-COLOR STAINING AND FORMLINER PATTERN TO BE CONTINUOUS ACROSS VERTICAL JOINTS. DO NOT STAIN VERTICAL WALL JOINT LIKE A MORTAR LINE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-309

DRAWN BY CKJ | PLANS CK'D. AEB

QUANTITIES AND NOTES

SHEET 2 OF 15
573

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

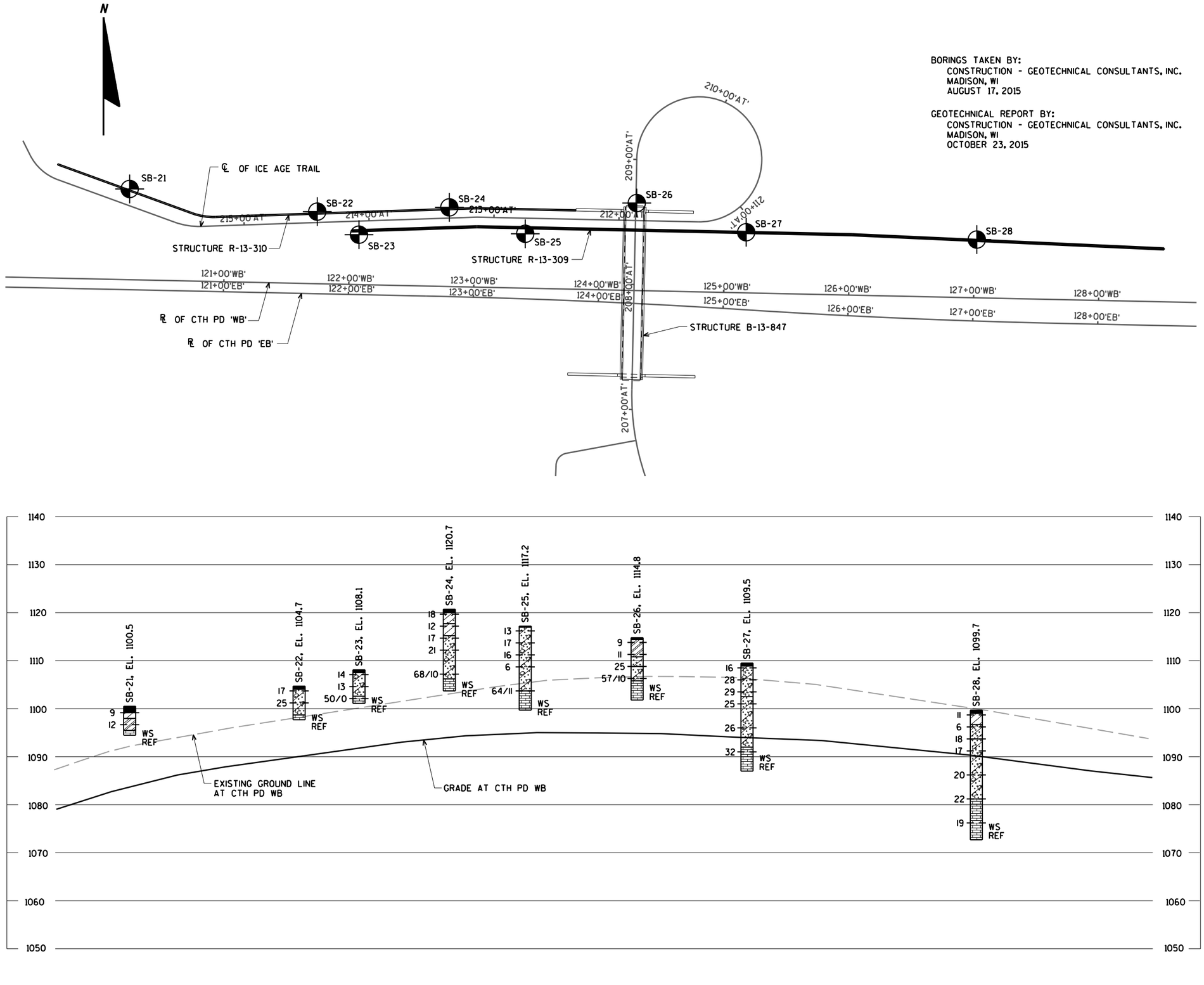
ecpdf.plt
420916 Wall R-13-309 gp CKJ 7-16.dgn

8

8

12/9/2016

black.tbl



BORINGS TAKEN BY:
CONSTRUCTION - GEOTECHNICAL CONSULTANTS, INC.
MADISON, WI
AUGUST 17, 2015

GEOTECHNICAL REPORT BY:
CONSTRUCTION - GEOTECHNICAL CONSULTANTS, INC.
MADISON, WI
OCTOBER 23, 2015

STATE PROJECT NUMBER

5992-09-31

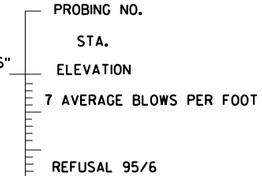
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

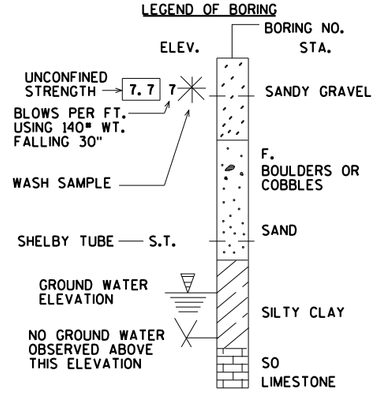
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-309

DRAWN BY JCK | PLANS CK'D. AEB

SUBSURFACE EXPLORATION

SHEET 3 OF 15
574

8

8

ecpdf.plt
420976 wall R-13-309 soils.dgn

8/31/2016

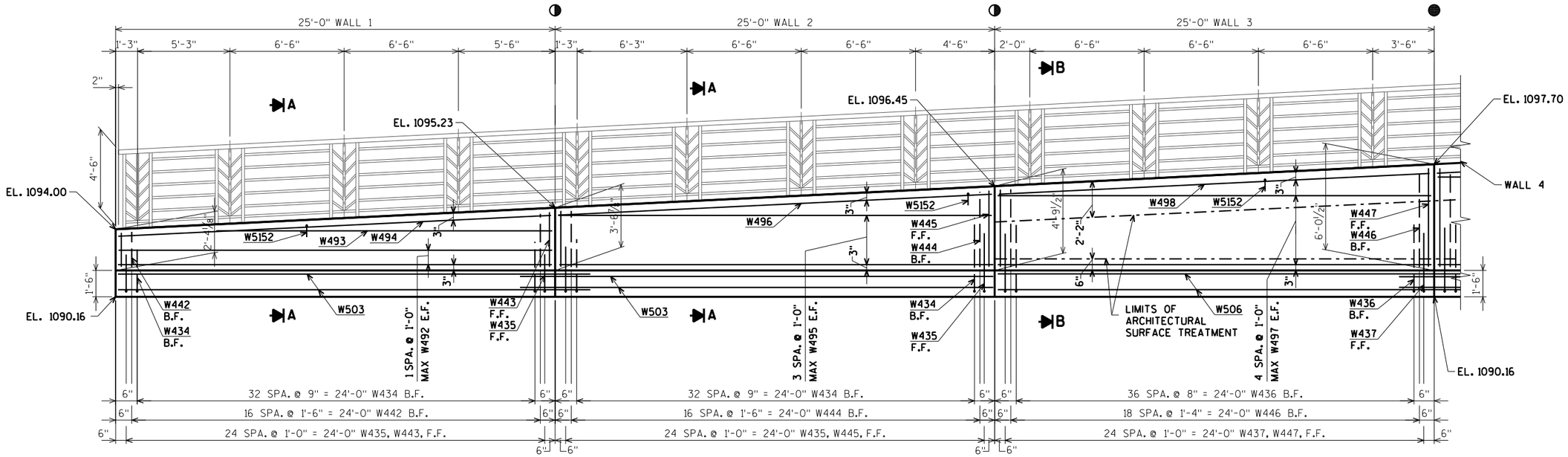
black.tbl

ecpdf.plt
420976 R-13-309 WALLS 1-25 CKJ 7-16.dgn 8/31/2016 black.tbl

STATE PROJECT NUMBER

5992-09-31

N



ELEVATION - WALLS 1 THRU 3

LOOKING NORTH AT FRONT FACE OF WALL

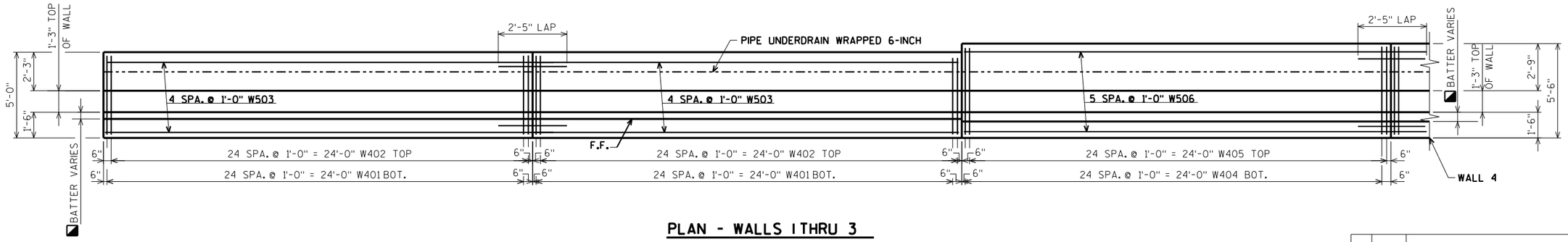
B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 14

● DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 14



PLAN - WALLS 1 THRU 3

◪ BATTER WALL FRONT FACE 1/4 INCH PER FOOT. FOR WALL 1 TO 4 FRONT FACE BATTER VARIES FROM 5/8" MIN. TO 1 3/4" MAX.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-309

DRAWN BY CKJ | PLANS CK'D. AEB

WALLS 1 THRU 3

SHEET 4 OF 15

575

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

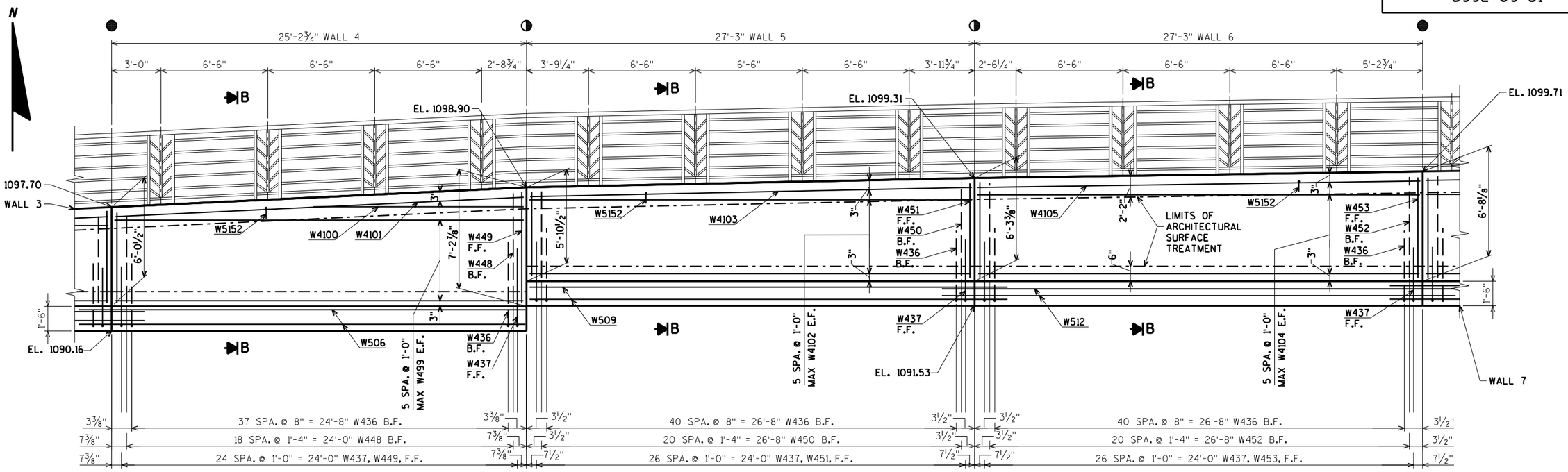
FILE= R-13-166 WALLS.DGN

8

8

STATE PROJECT NUMBER

5992-09-31



ELEVATION - WALLS 4 THRU 6

LOOKING NORTH AT FRONT FACE OF WALL

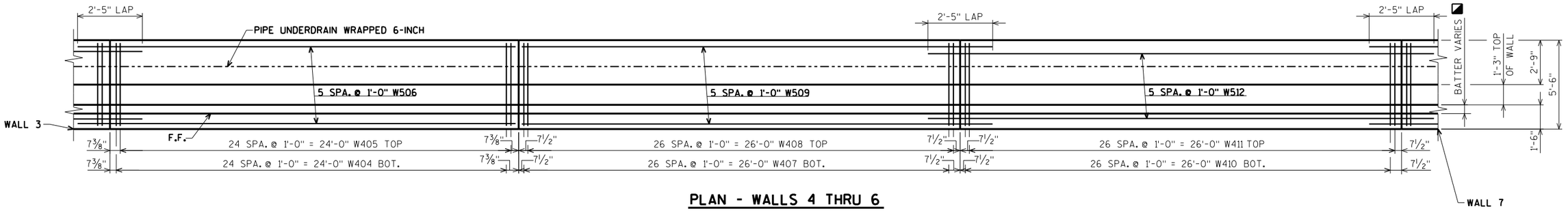
B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 14

● DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 14



PLAN - WALLS 4 THRU 6

◪ BATTER WALL FRONT FACE ¼ INCH PER FOOT.
FOR WALL 1 TO 4 FRONT FACE BATTER VARIES FROM ⅝" MIN. TO 1¾" MAX.
FOR WALL 5 TO 7 FRONT FACE BATTER VARIES FROM 1½" MIN. TO 1¾" MAX.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-309

DRAWN BY CKJ | PLANS CK'D. AEB

WALLS 4 THRU 6

SHEET 5 OF 15

576

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

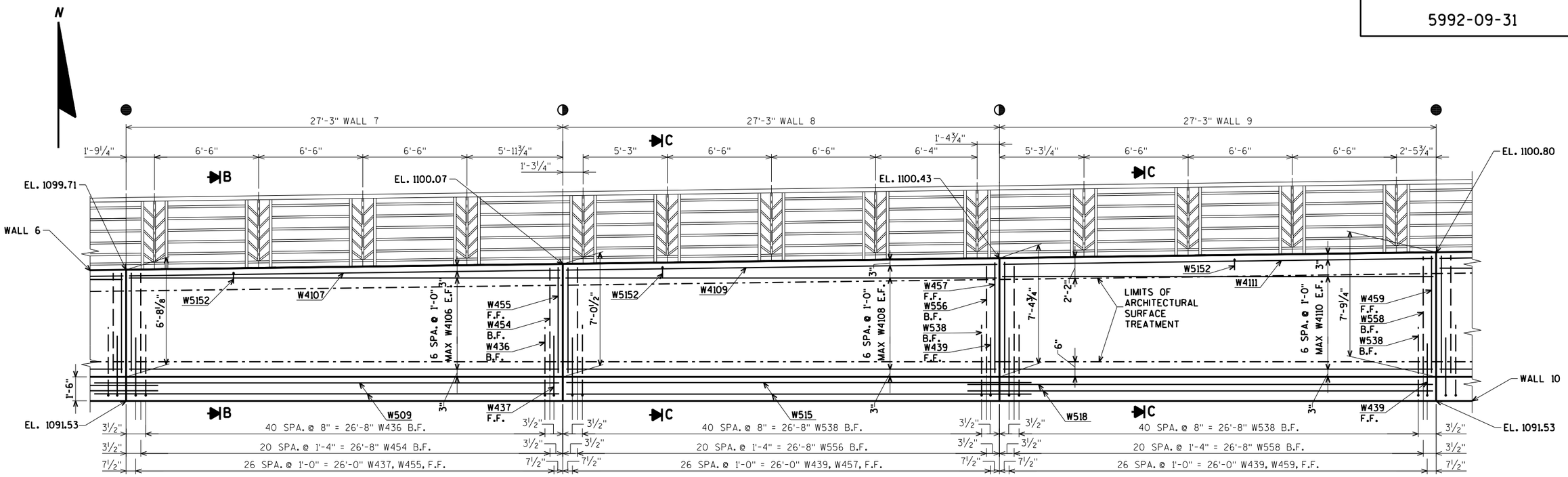
ecpdf.plt 12/7/2016 black.tbl
420976 R-13-309 WALLS 1-25 CKJ 7-16.dgn
FILE= R-13-166 WALLS.DGN

8

8

STATE PROJECT NUMBER

5992-09-31



ELEVATION - WALLS 7 THRU 9

LOOKING NORTH AT FRONT FACE OF WALL

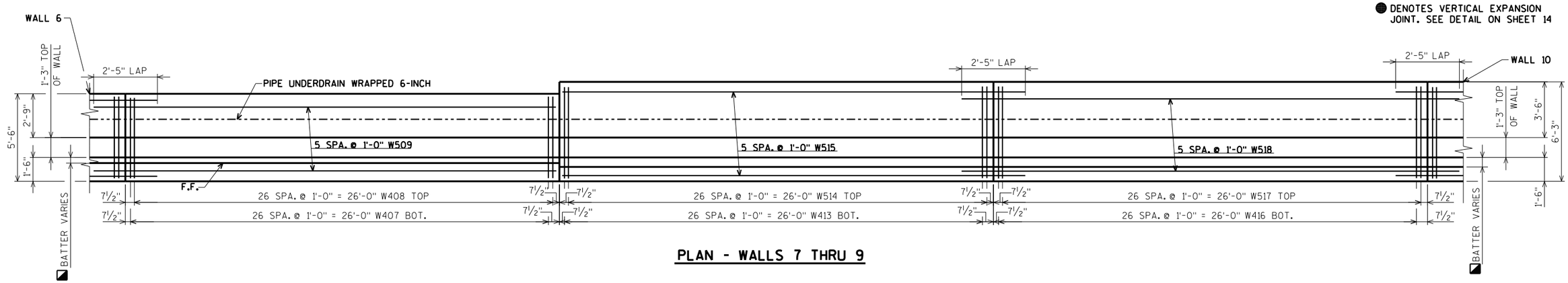
B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 14

● DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 14



PLAN - WALLS 7 THRU 9

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-309

DRAWN BY CKJ | PLANS CK'D. AEB

WALLS 7 THRU 9

SHEET 6 OF 15

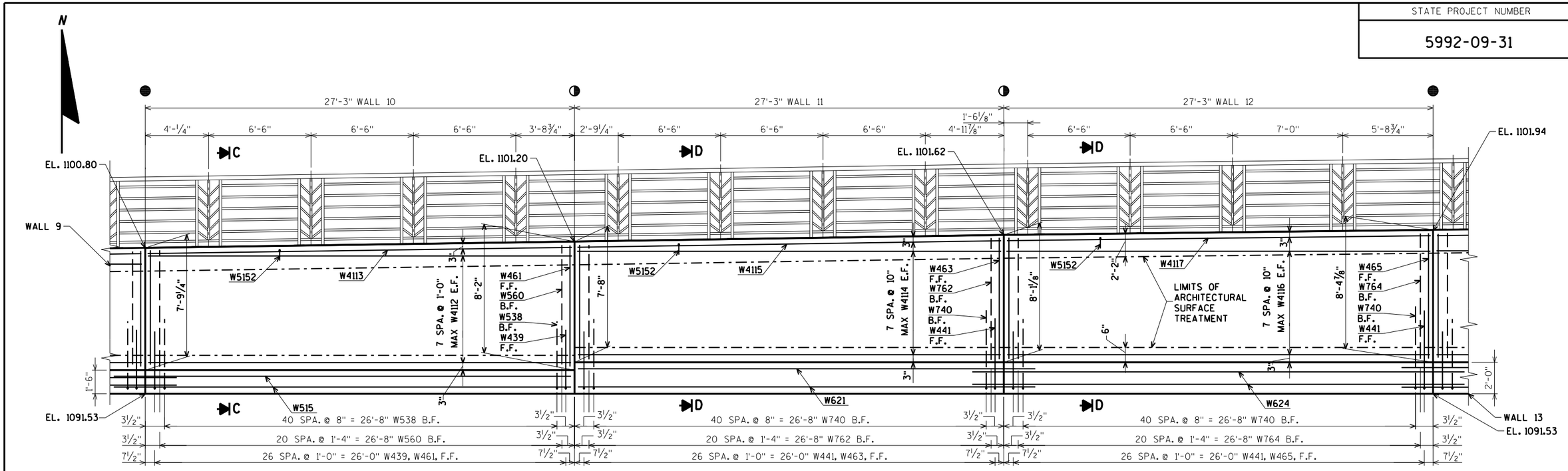
577

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

8

8

ecpdf.plt 12/7/2016 black.tbl
420976 R-13-309 WALLS 1-25 CKJ 7-16.dgn
FILE= R-13-166 WALLS.DGN



ELEVATION - WALLS 10 THRU 12

LOOKING NORTH AT FRONT FACE OF WALL

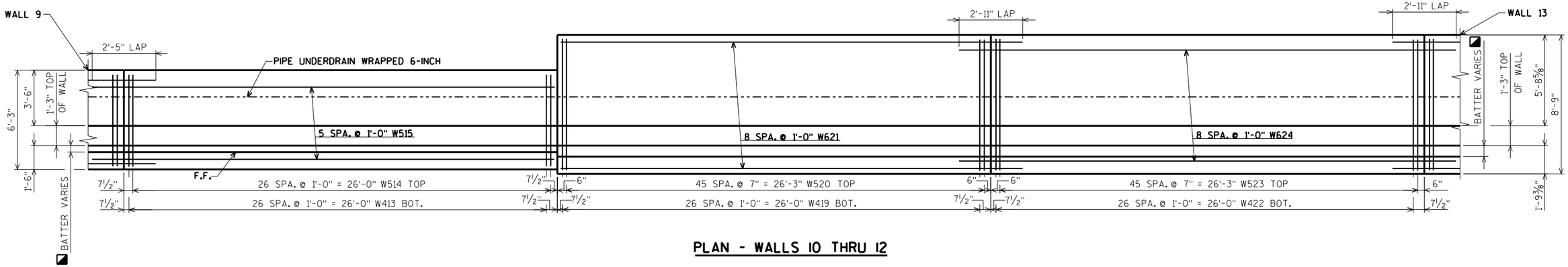
B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 14

● DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 14



PLAN - WALLS 10 THRU 12

◪ BATTER WALL FRONT FACE ¼ INCH PER FOOT.
FOR WALL 8 TO 10 FRONT FACE BATTER VARIES FROM 1¾" MIN. TO 2" MAX.
FOR WALL 11 TO 15 FRONT FACE BATTER VARIES FROM 1⅞" MIN. TO 2¼" MAX.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-309

DRAWN BY CKJ | PLANS CK'D. AEB

WALLS 10 THRU 12

SHEET 7 OF 15

578

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

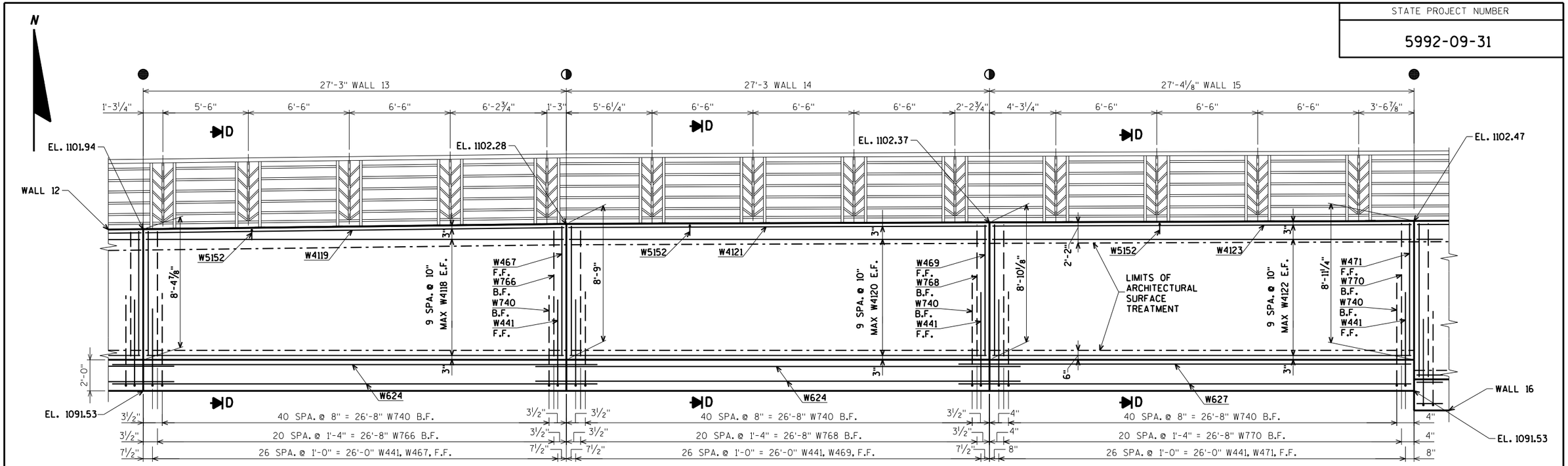
ecpdf.plt 12/7/2016 black.tbl
420976 R-13-309 WALLS 1-25 CKJ 7-16.dgn
FILE= R-13-166 WALLS.DGN

8

ecpdf.plt
420976 R-13-309 WALLS 1-25 CKJ 7-16.dgn 12/7/2016 black.tbl

STATE PROJECT NUMBER

5992-09-31



ELEVATION - WALLS 13 THRU 15

LOOKING NORTH AT FRONT FACE OF WALL

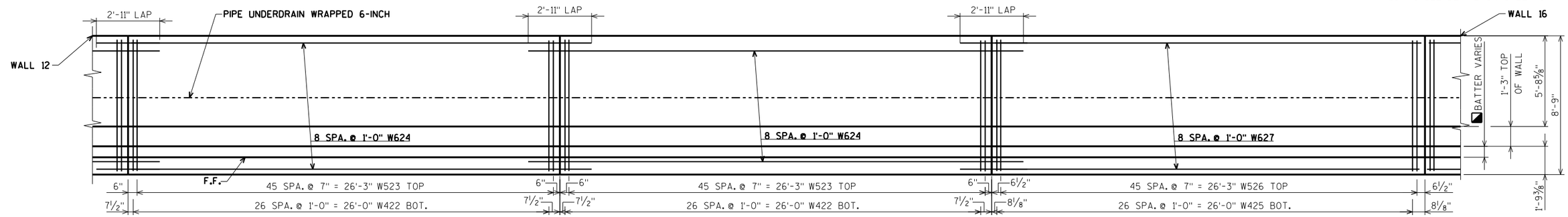
B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 14

● DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 14



PLAN - WALLS 13 THRU 15

◪ BATTER WALL FRONT FACE 1/4 INCH PER FOOT. FOR WALL 11 TO 15 FRONT FACE BATTER VARIES FROM 1 7/8" MIN. TO 2 1/4" MAX.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-309

DRAWN BY CKJ | PLANS CK'D. AEB

WALLS 13 THRU 15

SHEET 8 OF 15

579

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

FILE= R-13-166 WALLS.DGN

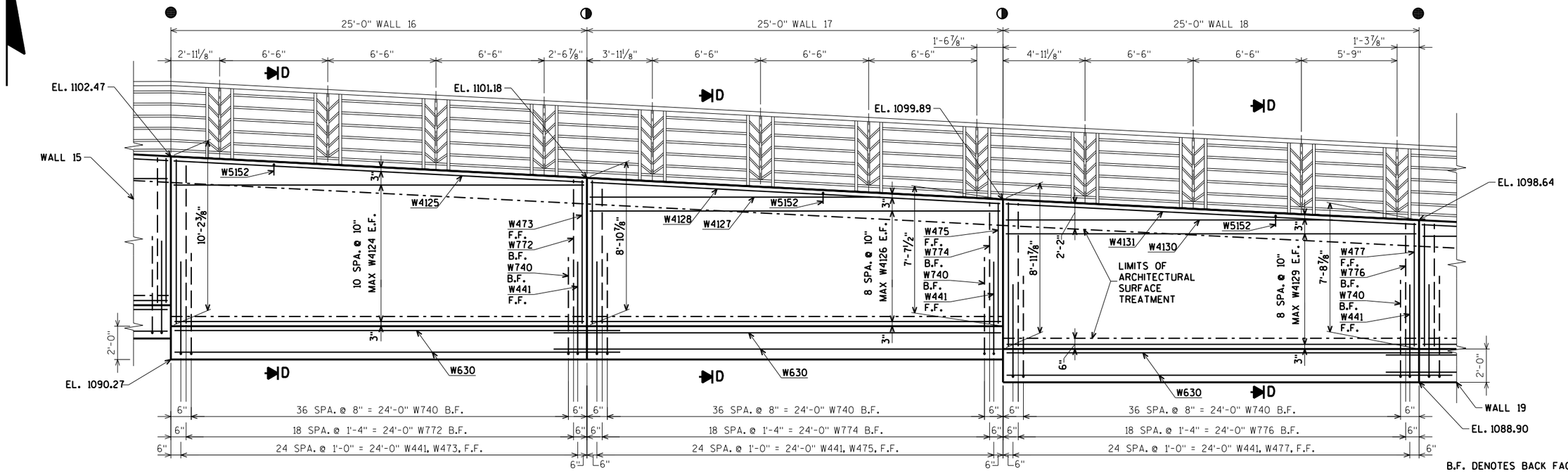
8

8

ecpdf.plt
420976 R-13-309 WALLS 1-25 CKJ 7-16.dgn
12/7/2016
black.tbl

STATE PROJECT NUMBER

5992-09-31



ELEVATION - WALLS 16 THRU 18

LOOKING NORTH AT FRONT FACE OF WALL

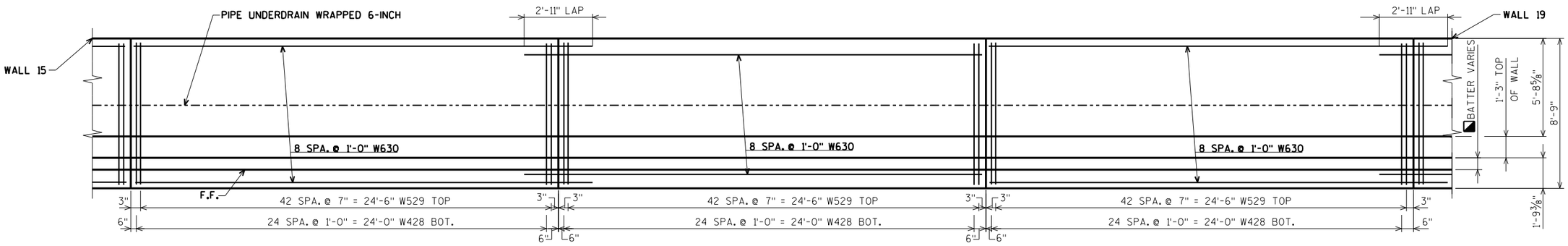
B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 14

● DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 14



PLAN - WALLS 16 THRU 18

◪ BATTER WALL FRONT FACE ¼ INCH PER FOOT.
FOR WALL 16 TO 17 FRONT FACE BATTER VARIES FROM 1⅞" MIN. TO 2½" MAX.
FOR WALL 18 TO 19 FRONT FACE BATTER VARIES FROM 1⅝" MIN. TO 2¼" MAX.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-309

DRAWN BY CKJ | PLANS CK'D. AEB

WALLS 16 THRU 18

SHEET 9 OF 15

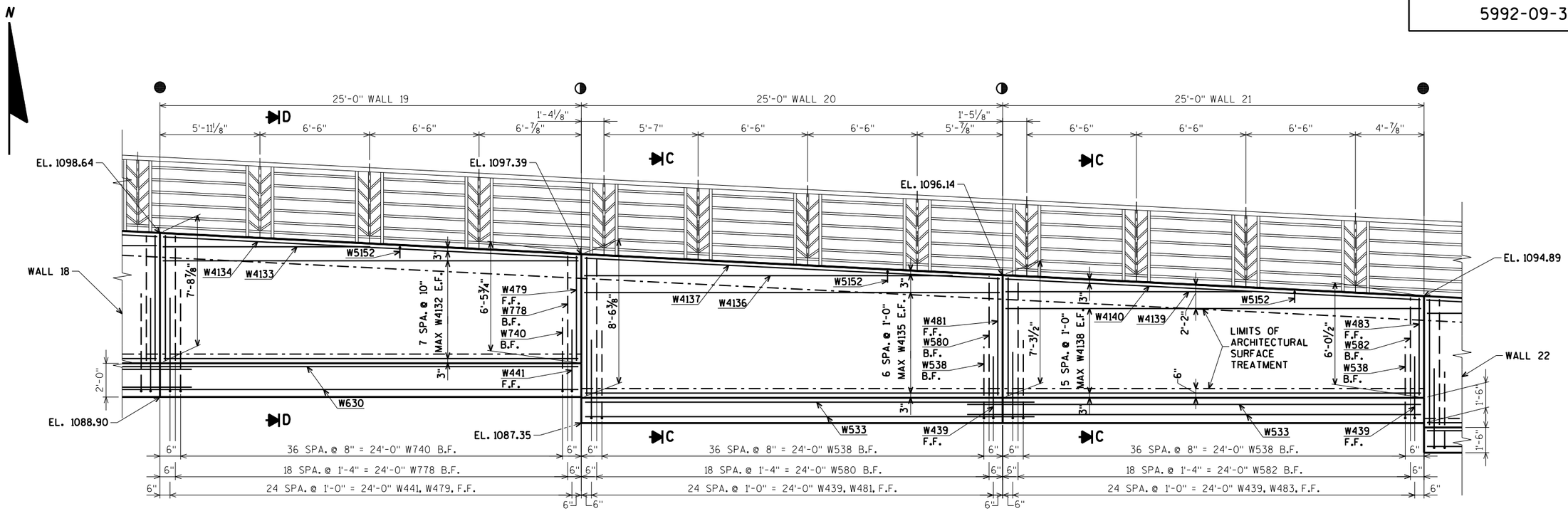
580

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

FILE= R-13-166 WALLS.DGN

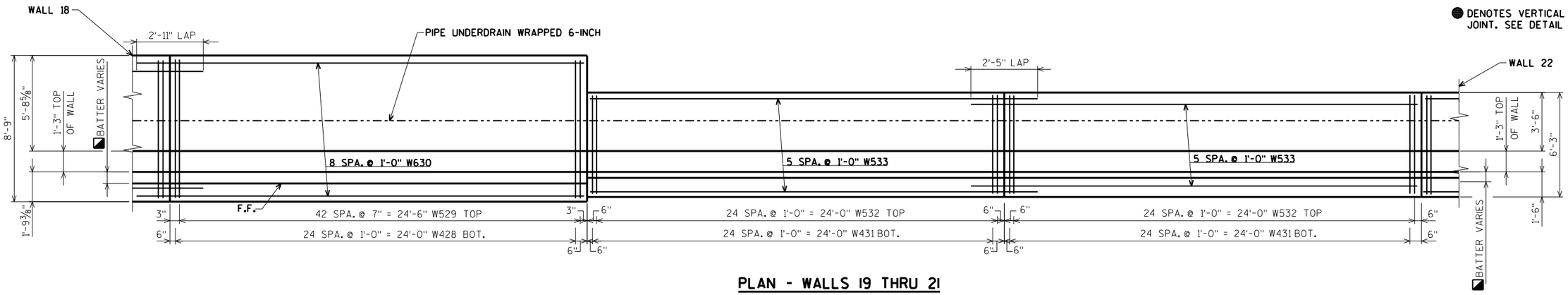
8

8



ELEVATION - WALLS 19 THRU 21

LOOKING NORTH AT FRONT FACE OF WALL



PLAN - WALLS 19 THRU 21

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 14

● DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 14

◪ BATTER WALL FRONT FACE ¼ INCH PER FOOT.
FOR WALL 18 TO 19 FRONT FACE BATTER VARIES FROM 1⅜" MIN. TO 2¼" MAX.
FOR WALL 20 TO 21 FRONT FACE BATTER VARIES FROM 1½" MIN. TO 2⅛" MAX.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-309

DRAWN BY CKJ | PLANS CK'D. AEB

WALLS 19 THRU 21

SHEET 10 OF 15
581

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

ecpdf.plt
420976 R-13-309 WALLS 1-25 CKJ 7-16.dgn 12/7/2016 black.tbl

FILE= R-13-166 WALLS.DGN

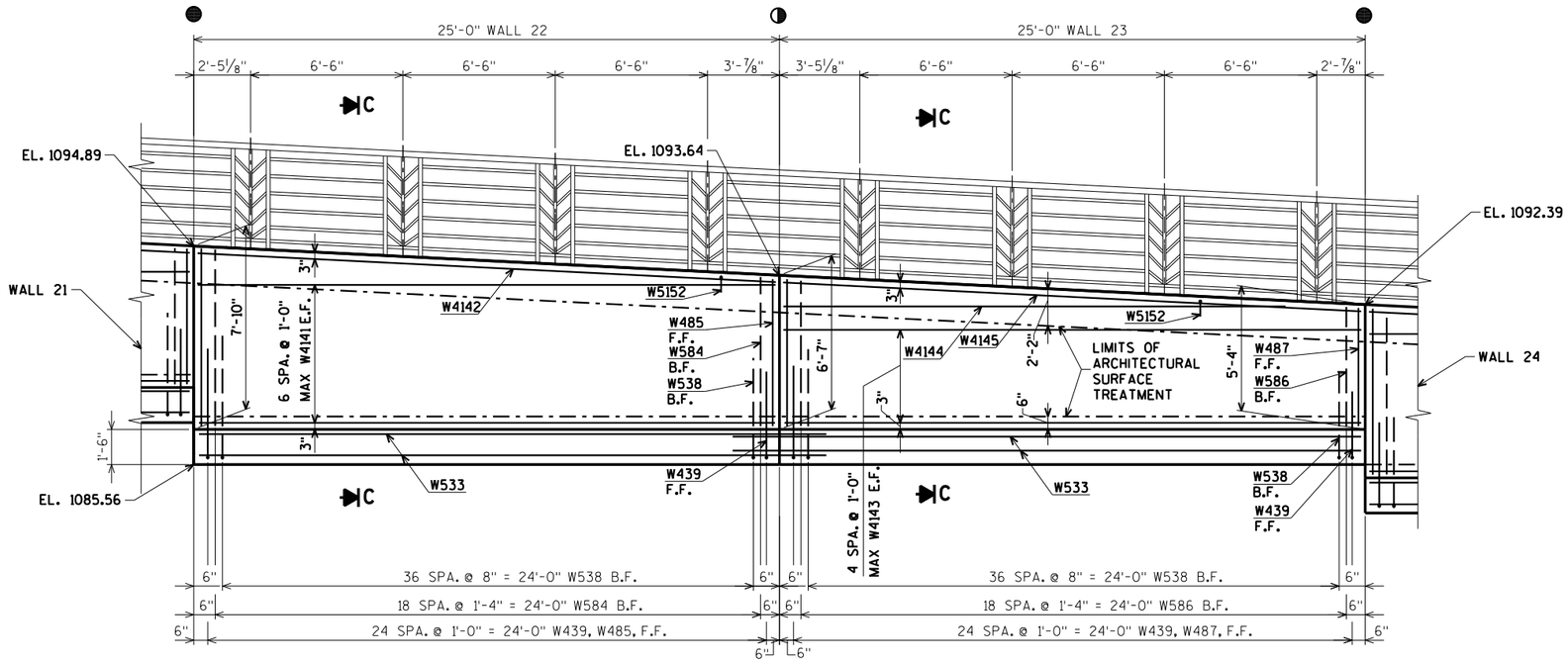
8

8

STATE PROJECT NUMBER

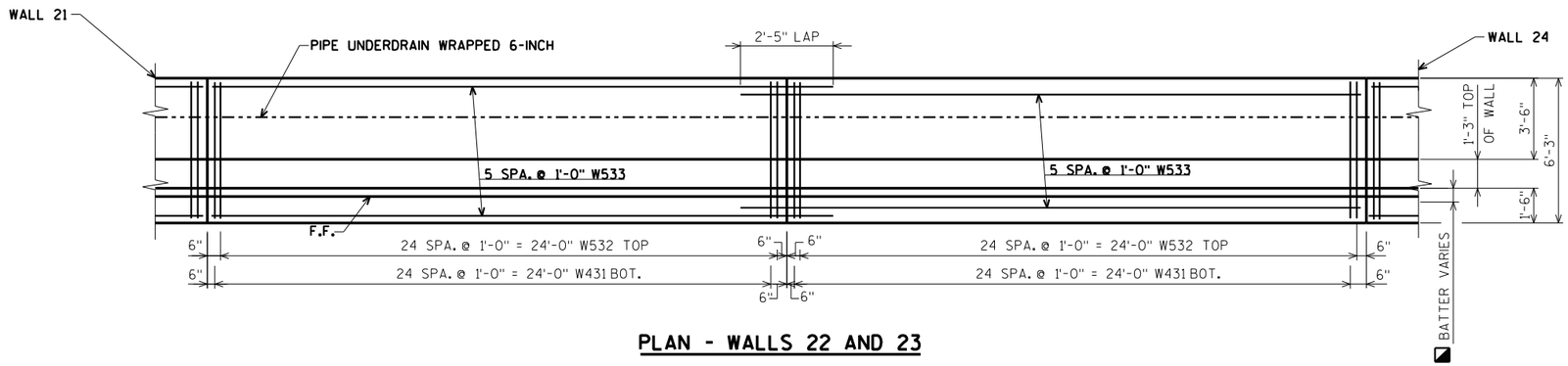
5992-09-31

N



ELEVATION - WALLS 22 AND 23

LOOKING NORTH AT FRONT FACE OF WALL



PLAN - WALLS 22 AND 23

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 14

● DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 14

◪ BATTER WALL FRONT FACE 1/4 INCH PER FOOT. FOR WALL 22 TO 23 FRONT FACE BATTER VARIES FROM 1 3/8" MIN. TO 2" MAX.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-309

DRAWN BY CKJ | PLANS CK'D. AEB

WALLS 22 AND 23

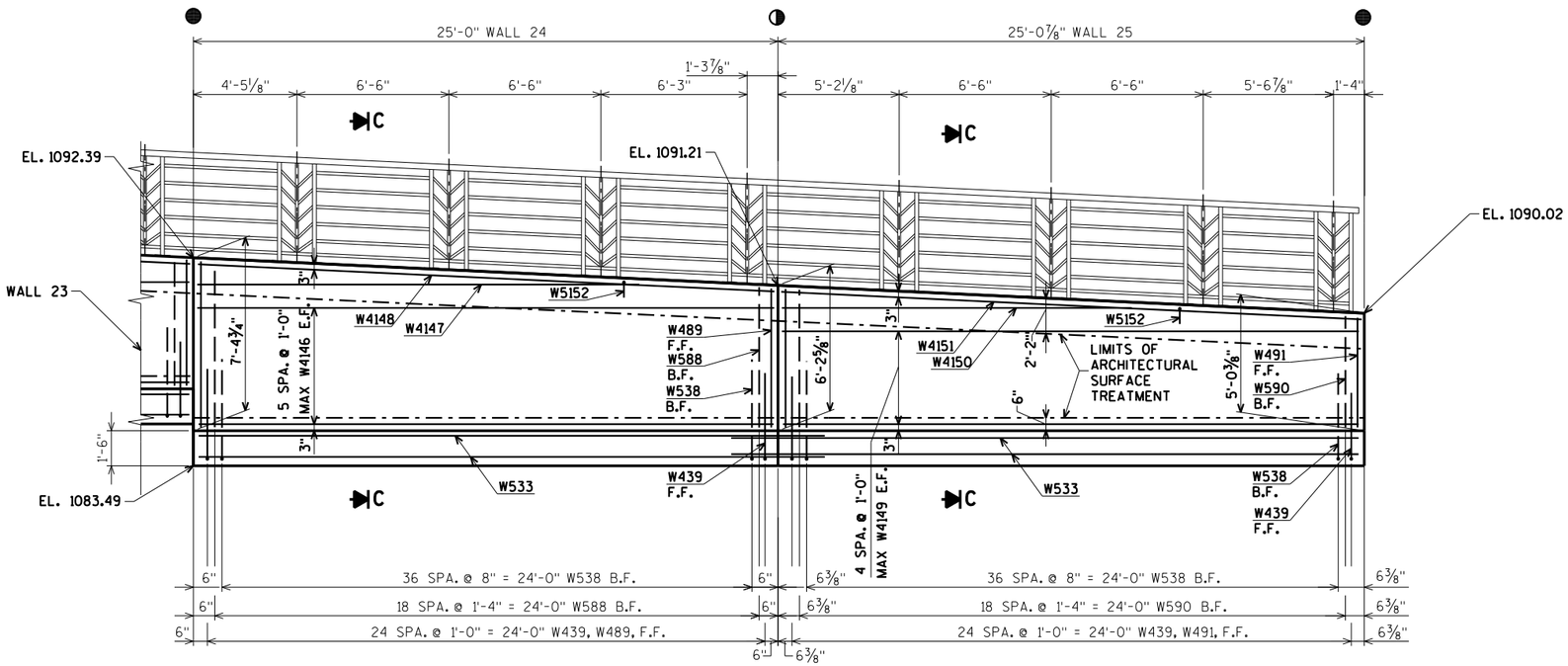
SHEET 11 OF 15

582

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

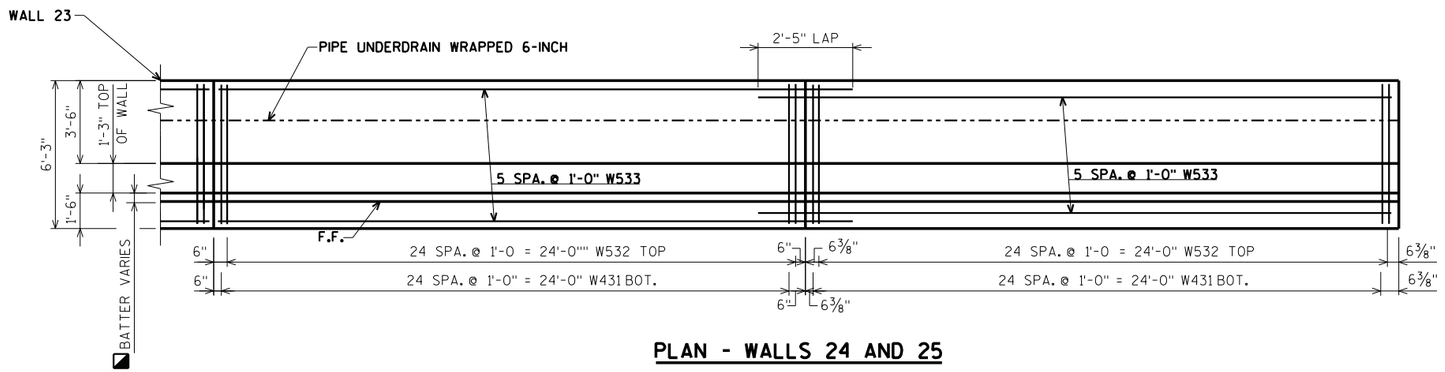
ecpdf.plt
420976 R-13-309 WALLS 1-25 CKJ 7-16.dgn
12/7/2016
black.tbl
FILE= R-13-166 WALLS.DGN

8



ELEVATION - WALLS 24 AND 25

LOOKING NORTH AT FRONT FACE OF WALL



PLAN - WALLS 24 AND 25

◪ BATTER WALL FRONT FACE ¼ INCH PER FOOT.
FOR WALL 24 TO 25 FRONT FACE BATTER VARIES FROM
1¼" MIN. TO 1⅞" MAX.

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 14

● DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 14

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-309

DRAWN BY CKJ | PLANS CK'D. AEB

WALLS 24 AND 25

SHEET 12 OF 15
583

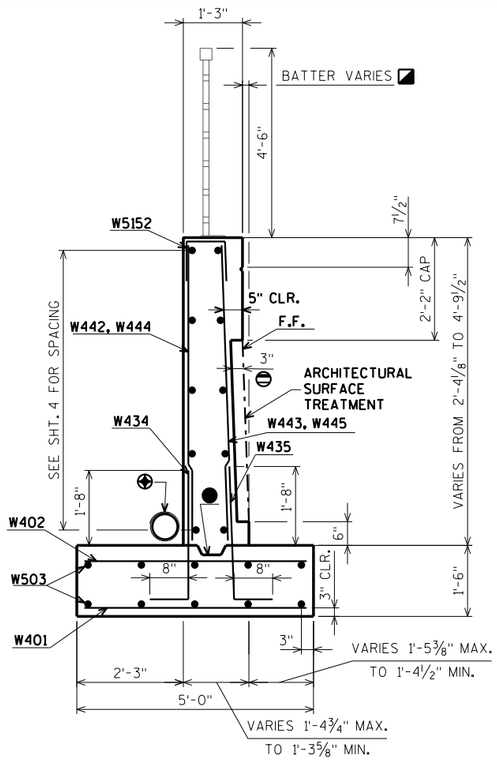
PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

FILE= R-13-166 WALLS.DGN

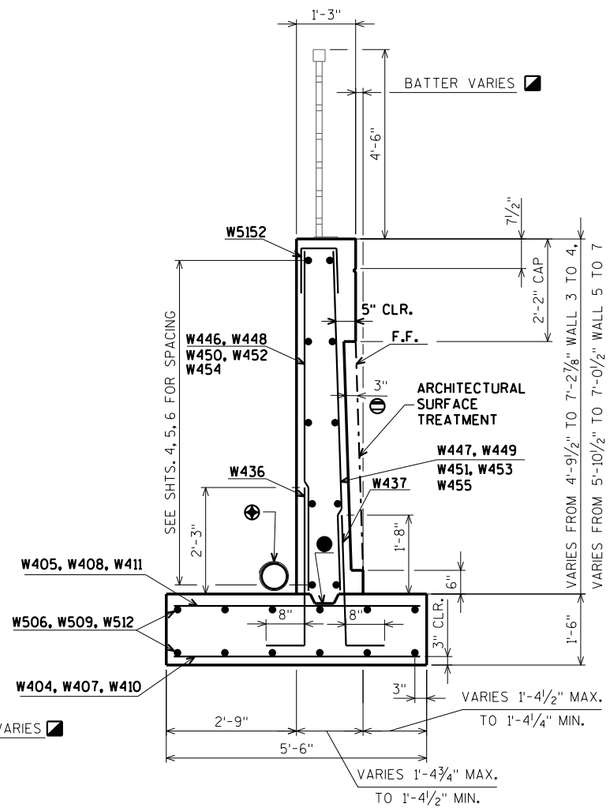
ecpdf.plt 420976 R-13-309 WALLS 1-25 CKJ 7-16.dgn 12/7/2016 black.tbl

8

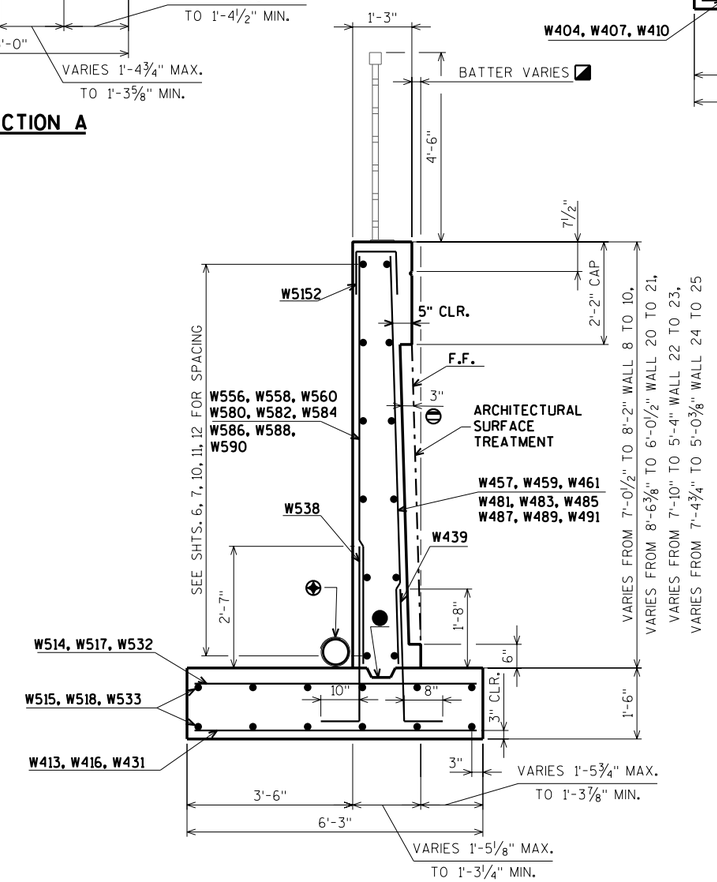
8



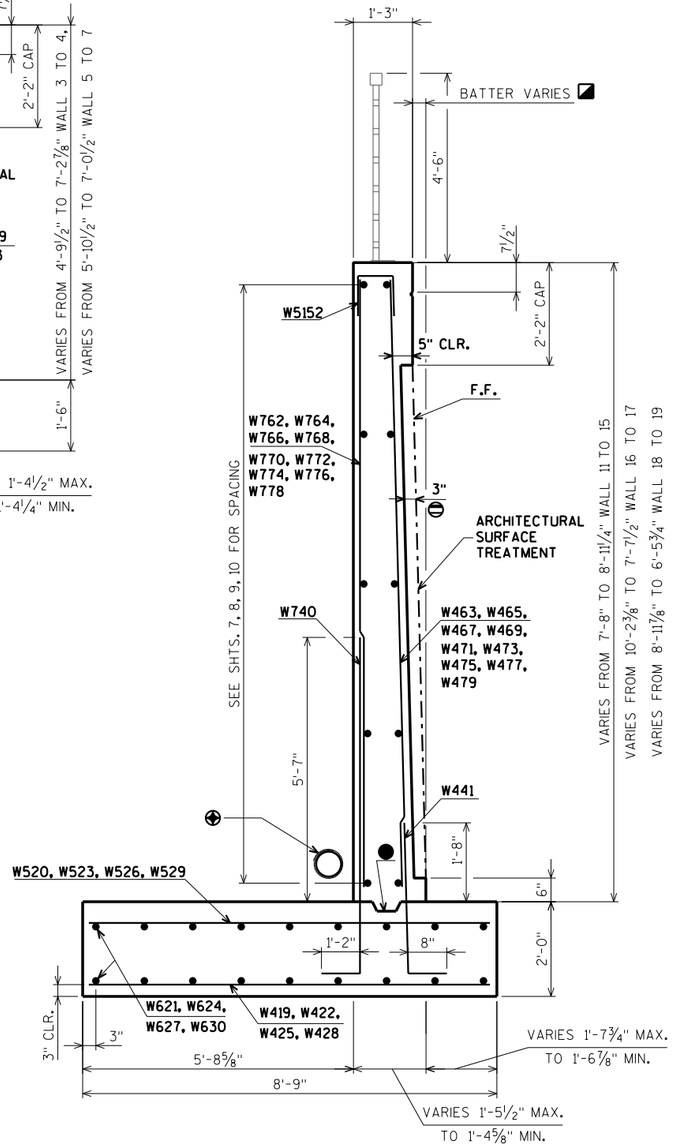
SECTION A



SECTION B



SECTION C



SECTION D

- OPT. KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH". SEE SHEET 14 FOR DETAILS.
- ARCHITECTURAL SURFACE TREATMENT (RECTANGULAR CUT STONE) - TYP. SEE SHEET 2 FOR DETAILS.

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

BATTER WALL FRONT FACE ¼ INCH PER FOOT.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-309

DRAWN BY CKJ | PLANS CK'D. AEB

WALL SECTIONS A THRU D

SHEET13 OF 15
584

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

8

8

black.tbl
8/31/2016
ecpdf.plt
420976 R-13-309 X-SECT A-D CKJ 7-16.dgn
FILE= R-13-166 WALLS.DGN

BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	LOCATION
W401		50	4-6			FTG-TRANS.BOT.-SECT.A-WALLS 1&2
W402		50	4-6			FTG-TRANS.TOP-SECT.A-WALLS 1&2
W503		20	26-1			FTG-TRANS.TOP&BOT.-SECT.A-WALLS 1&2
W404		50	5-2			FTG-TRANS.BOT.-SECT.B-WALLS 3&4
W405		50	5-2			FTG-TRANS.TOP-SECT.B-WALLS 3&4
W506		24	26-1			FTG-TRANS.TOP&BOT.-SECT.B-WALLS 3&4
W407		54	5-2			FTG-TRANS.BOT.-SECT.B-WALLS 5&7
W408		54	5-2			FTG-TRANS.TOP-SECT.B-WALLS 5&7
W509		24	28-4			FTG-TRANS.TOP&BOT.-SECT.B-WALLS 5&7
W410		27	5-2			FTG-TRANS.BOT.-SECT.B-WALL 6
W411		27	5-2			FTG-TRANS.TOP-SECT.B-WALL 6
W512		12	29-8			FTG-TRANS.TOP&BOT.-SECT.B-WALL 6
W413		54	5-11			FTG-TRANS.BOT.-SECT.C-WALLS 8&10
W514		54	5-11			FTG-TRANS.TOP-SECT.C-WALLS 8&10
W515		24	28-4			FTG-TRANS.TOP&BOT.-SECT.C-WALLS 8&10
W416		27	5-11			FTG-TRANS.BOT.-SECT.C-WALL 9
W517		27	5-11			FTG-TRANS.TOP-SECT.C-WALL 9
W518		12	29-8			FTG-TRANS.TOP&BOT.-SECT.C-WALL 9
W419		27	8-5			FTG-TRANS.BOT.-SECT.D-WALL 11
W520		46	8-5			FTG-TRANS.TOP-SECT.D-WALL 11
W621		18	28-7			FTG-TRANS.TOP&BOT.-SECT.D-WALL 11
W422		81	8-5			FTG-TRANS.BOT.-SECT.D-WALLS 12 THRU 14
W523		138	8-5			FTG-TRANS.TOP-SECT.D-WALLS 12 THRU 14
W624		54	30-2			FTG-TRANS.TOP&BOT.-SECT.D-WALLS 12 THRU 14
W425		27	8-5			FTG-TRANS.BOT.-SECT.D-WALL 15
W526		46	8-5			FTG-TRANS.TOP-SECT.D-WALL 15
W627		18	28-8			FTG-TRANS.TOP&BOT.-SECT.D-WALL 15
W428		100	8-5			FTG-TRANS.BOT.-SECT.D-WALLS 16 THRU 19
W529		172	8-5			FTG-TRANS.TOP-SECT.D-WALLS 16 THRU 19
W630		36	26-4			FTG-TRANS.TOP&BOT.-SECT.D-WALLS 16 THRU 19
W431		150	5-11			FTG-TRANS.BOT.-SECT.C-WALLS 20 THRU 25
W532		150	5-11			FTG-TRANS.TOP-SECT.C-WALLS 20 THRU 25
W533		72	26-1			FTG-TRANS.TOP&BOT.-SECT.C-WALLS 20 THRU 25
W434	X	66	3-6	X		FTG-VERT.B.F.-SECT.A-WALLS 1&2
W435	X	50	3-6	X		FTG-VERT.F.F.-SECT.A-WALLS 1&2
W436	X	198	4-1	X		FTG-VERT.B.F.-SECT.B-WALLS 3 THRU 7
W437	X	131	3-6	X		FTG-VERT.F.F.-SECT.B-WALLS 3 THRU 7
W538	X	345	4-6	X		FTG-VERT.B.F.-SECT.C-WALLS 8 THRU 10 & 20 THRU 25
W439	X	231	3-6	X		FTG-VERT.F.F.-SECT.C-WALLS 8 THRU 10 & 20 THRU 25
W740	X	353	8-4	X		FTG-VERT.B.F.-SECT.D-WALLS 11 THRU 19
W441	X	235	4-0	X		FTG-VERT.F.F.-SECT.D-WALLS 11 THRU 19
W442	X	17	2-9		⊗	WALL-VERT.B.F.-SECT.A-WALL 1
W443	X	25	2-9		⊗	WALL-VERT.F.F.-SECT.A-WALL 1
W444	X	17	4-0		⊗	WALL-VERT.B.F.-SECT.A-WALL 2
W445	X	25	4-0		⊗	WALL-VERT.F.F.-SECT.A-WALL 2
W446	X	19	5-2		⊗	WALL-VERT.B.F.-SECT.B-WALL 3
W447	X	25	5-2		⊗	WALL-VERT.F.F.-SECT.B-WALL 3
W448	X	19	6-5		⊗	WALL-VERT.B.F.-SECT.B-WALL 4
W449	X	25	6-5		⊗	WALL-VERT.F.F.-SECT.B-WALL 4
W450	X	21	5-10		⊗	WALL-VERT.B.F.-SECT.B-WALL 5
W451	X	27	5-10		⊗	WALL-VERT.F.F.-SECT.B-WALL 5
W452	X	21	6-3		⊗	WALL-VERT.B.F.-SECT.B-WALL 6
W453	X	27	6-3		⊗	WALL-VERT.F.F.-SECT.B-WALL 6
W454	X	21	6-8		⊗	WALL-VERT.B.F.-SECT.B-WALL 7
W455	X	27	6-8		⊗	WALL-VERT.F.F.-SECT.B-WALL 7
W556	X	21	7-0		⊗	WALL-VERT.B.F.-SECT.C-WALL 8
W457	X	27	7-0		⊗	WALL-VERT.F.F.-SECT.C-WALL 8
W558	X	21	7-5		⊗	WALL-VERT.B.F.-SECT.C-WALL 9
W459	X	27	7-5		⊗	WALL-VERT.F.F.-SECT.C-WALL 9
W560	X	21	7-9		⊗	WALL-VERT.B.F.-SECT.C-WALL 10
W461	X	27	7-9		⊗	WALL-VERT.F.F.-SECT.C-WALL 10
W762	X	21	7-8		⊗	WALL-VERT.B.F.-SECT.D-WALL 11
W463	X	27	7-8		⊗	WALL-VERT.F.F.-SECT.D-WALL 11
W764	X	21	8-1		⊗	WALL-VERT.B.F.-SECT.D-WALL 12
W465	X	27	8-1		⊗	WALL-VERT.F.F.-SECT.D-WALL 12
W766	X	21	8-5		⊗	WALL-VERT.B.F.-SECT.D-WALL 13
W467	X	27	8-5		⊗	WALL-VERT.F.F.-SECT.D-WALL 13
W768	X	21	8-7			WALL-VERT.B.F.-SECT.D-WALL 14
W469	X	27	8-7			WALL-VERT.F.F.-SECT.D-WALL 14
W770	X	21	8-8		⊗	WALL-VERT.B.F.-SECT.D-WALL 15
W471	X	27	8-8		⊗	WALL-VERT.F.F.-SECT.D-WALL 15
W772	X	19	9-4		⊗	WALL-VERT.B.F.-SECT.D-WALL 16
W473	X	25	9-4		⊗	WALL-VERT.F.F.-SECT.D-WALL 16
W774	X	19	8-1		⊗	WALL-VERT.B.F.-SECT.D-WALL 17
W475	X	25	8-1		⊗	WALL-VERT.F.F.-SECT.D-WALL 17
W776	X	19	8-2		⊗	WALL-VERT.B.F.-SECT.D-WALL 18

BILL OF BARS

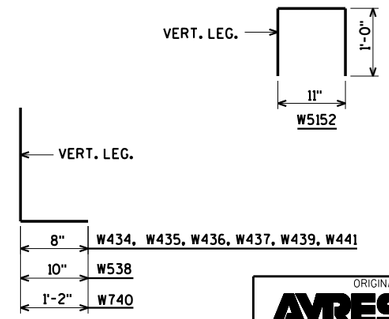
19,130# COATED
26,720# UNCOATED

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	LOCATION
W477	X	25	8-2		⊗	WALL-VERT.F.F.-SECT.D-WALL 18
W778	X	19	6-11		⊗	WALL-VERT.B.F.-SECT.D-WALL 19
W479	X	25	6-11		⊗	WALL-VERT.F.F.-SECT.D-WALL 19
W580	X	19	7-8		⊗	WALL-VERT.B.F.-SECT.C-WALL 20
W481	X	25	7-8		⊗	WALL-VERT.F.F.-SECT.C-WALL 20
W582	X	19	6-5		⊗	WALL-VERT.B.F.-SECT.C-WALL 21
W483	X	25	6-5		⊗	WALL-VERT.F.F.-SECT.C-WALL 21
W584	X	19	7-0		⊗	WALL-VERT.B.F.-SECT.C-WALL 22
W485	X	25	7-0		⊗	WALL-VERT.F.F.-SECT.C-WALL 22
W586	X	19	5-9		⊗	WALL-VERT.B.F.-SECT.C-WALL 23
W487	X	25	5-9		⊗	WALL-VERT.F.F.-SECT.C-WALL 23
W588	X	19	6-7		⊗	WALL-VERT.B.F.-SECT.C-WALL 24
W489	X	25	6-7		⊗	WALL-VERT.F.F.-SECT.C-WALL 24
W590	X	19	5-5		⊗	WALL-VERT.B.F.-SECT.C-WALL 25
W491	X	25	5-5		⊗	WALL-VERT.F.F.-SECT.C-WALL 25
W492	X	4	24-8			WALL-LONG.E.F.-SECT.A-WALL 1
W493	X	2	21-7			WALL-LONG.E.F.-SECT.A-WALL 1
W494	X	2	24-8			WALL-LONG.E.F.-SECT.A-WALL 1
W495	X	8	24-8			WALL-LONG.E.F.-SECT.A-WALL 2
W496	X	2	24-8			WALL-LONG.E.F.-SECT.A-WALL 2
W497	X	10	24-8			WALL-LONG.E.F.-SECT.B-WALL 3
W498	X	2	24-8			WALL-LONG.E.F.-SECT.B-WALL 3
W499	X	12	24-10			WALL-LONG.E.F.-SECT.B-WALL 4
W4100	X	2	15-4			WALL-LONG.E.F.-SECT.B-WALL 4
W4101	X	2	24-11			WALL-LONG.E.F.-SECT.B-WALL 4
W4102	X	12	26-11			WALL-LONG.E.F.-SECT.B-WALL 5
W4103	X	2	26-11			WALL-LONG.E.F.-SECT.B-WALL 5
W4104	X	12	26-11			WALL-LONG.E.F.-SECT.B-WALL 6
W4105	X	2	26-11			WALL-LONG.E.F.-SECT.B-WALL 6
W4106	X	14	26-11			WALL-LONG.E.F.-SECT.B-WALL 7
W4107	X	2	26-11			WALL-LONG.E.F.-SECT.B-WALL 7
W4108	X	14	26-11			WALL-LONG.E.F.-SECT.C-WALL 8
W4109	X	2	26-11			WALL-LONG.E.F.-SECT.C-WALL 8
W4110	X	14	26-11			WALL-LONG.E.F.-SECT.C-WALL 9
W4111	X	2	26-11			WALL-LONG.E.F.-SECT.C-WALL 9
W4112	X	16	26-11			WALL-LONG.E.F.-SECT.C-WALL 10
W4113	X	2	26-11			WALL-LONG.E.F.-SECT.C-WALL 10
W4114	X	16	26-11			WALL-LONG.E.F.-SECT.D-WALL 11
W4115	X	2	26-11			WALL-LONG.E.F.-SECT.D-WALL 11
W4116	X	16	26-11			WALL-LONG.E.F.-SECT.D-WALL 12
W4117	X	2	26-11			WALL-LONG.E.F.-SECT.D-WALL 12
W4118	X	20	26-11			WALL-LONG.E.F.-SECT.D-WALL 13
W4119	X	2	26-11			WALL-LONG.E.F.-SECT.D-WALL 13
W4120	X	20	26-11			WALL-LONG.E.F.-SECT.D-WALL 14
W4121	X	2	26-11			WALL-LONG.E.F.-SECT.D-WALL 14
W4122	X	20	27-0			WALL-LONG.E.F.-SECT.D-WALL 15
W4123	X	2	27-0			WALL-LONG.E.F.-SECT.D-WALL 15
W4124	X	22	24-8			WALL-LONG.E.F.-SECT.D-WALL 16
W4125	X	2	24-8			WALL-LONG.E.F.-SECT.D-WALL 16
W4126	X	18	24-8			WALL-LONG.E.F.-SECT.D-WALL 17
W4127	X	2	17-5			WALL-LONG.E.F.-SECT.D-WALL 17
W4128	X	2	24-8			WALL-LONG.E.F.-SECT.D-WALL 17
W4129	X	18	24-8			WALL-LONG.E.F.-SECT.D-WALL 18
W4130	X	2	19-7			WALL-LONG.E.F.-SECT.D-WALL 18
W4131	X	2	24-8			WALL-LONG.E.F.-SECT.D-WALL 18
W4132	X	16	24-8			WALL-LONG.E.F.-SECT.D-WALL 19
W4133	X	2	11-2			WALL-LONG.E.F.-SECT.D-WALL 19
W4134	X	2	24-8			WALL-LONG.E.F.-SECT.D-WALL 19
W4135	X	14	24-8			WALL-LONG.E.F.-SECT.C-WALL 20
W4136	X	2	19-7			WALL-LONG.E.F.-SECT.C-WALL 20
W4137	X	2	24-8			WALL-LONG.E.F.-SECT.C-WALL 20
W4138	X	12	24-8			WALL-LONG.E.F.-SECT.C-WALL 21
W4139	X	2	14-7			WALL-LONG.E.F.-SECT.C-WALL 21
W4140	X	2	24-8			WALL-LONG.E.F.-SECT.C-WALL 21
W4141	X	14	24-8			WALL-LONG.E.F.-SECT.C-WALL 22
W4142	X	2	24-8			WALL-LONG.E.F.-SECT.C-WALL 22
W4143	X	10	24-8			WALL-LONG.E.F.-SECT.C-WALL 23
W4144	X	2	21-5			WALL-LONG.E.F.-SECT.C-WALL 23
W4145	X	2	24-8			WALL-LONG.E.F.-SECT.C-WALL 23
W4146	X	12	24-8			WALL-LONG.E.F.-SECT.C-WALL 24
W4147	X	2	18-10			WALL-LONG.E.F.-SECT.C-WALL 24
W4148	X	2	24-8			WALL-LONG.E.F.-SECT.C-WALL 24
W4149	X	10	24-8			WALL-LONG.E.F.-SECT.C-WALL 25
W4150	X	2	14-11			WALL-LONG.E.F.-SECT.C-WALL 25
W4151	X	2	24-8			WALL-LONG.E.F.-SECT.C-WALL 25
W5152	X	647	2-9	X		WALL-TOP STIRRUP-WALLS 1 THRU 25

BAR SERIES TABLE

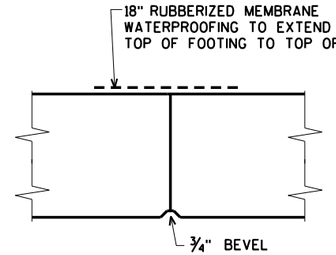
BAR NO.	NO. REQ'D.	LENGTH
W442	1 SERIES OF 17	2'-2" TO 3'-4"
W443	1 SERIES OF 25	2'-2" TO 3'-4"
W444	1 SERIES OF 17	3'-5" TO 4'-7"
W445	1 SERIES OF 25	3'-5" TO 4'-7"
W446	1 SERIES OF 19	4'-6" TO 5'-10"
W447	1 SERIES OF 25	4'-6" TO 5'-10"
W448	1 SERIES OF 19	5'-10" TO 7'-0"
W449	1 SERIES OF 25	5'-10" TO 7'-0"
W450	1 SERIES OF 21	5'-8" TO 6'-0"
W451	1 SERIES OF 27	5'-8" TO 6'-0"
W452	1 SERIES OF 21	6'-0" TO 6'-6"
W453	1 SERIES OF 27	6'-0" TO 6'-6"
W454	1 SERIES OF 21	6'-6" TO 6'-10"
W455	1 SERIES OF 27	6'-6" TO 6'-10"
W556	1 SERIES OF 21	6'-10" TO 7'-2"
W457	1 SERIES OF 27	6'-10" TO 7'-2"
W558	1 SERIES OF 21	7'-3" TO 7'-7"
W459	1 SERIES OF 27	7'-3" TO 7'-7"
W560	1 SERIES OF 21	7'-7" TO 7'-11"
W461	1 SERIES OF 27	7'-7" TO 7'-11"
W762	1 SERIES OF 21	7'-5" TO 7'-11"
W463	1 SERIES OF 27	7'-5" TO 7'-11"
W764	1 SERIES OF 21	7'-11" TO 8'-3"
W465	1 SERIES OF 27	7'-11" TO 8'-3"
W766	1 SERIES OF 21	8'-3" TO 8'-7"
W467	1 SERIES OF 27	8'-3" TO 8'-7"
W770	1 SERIES OF 21	8'-7" TO 8'-9"
W471	1 SERIES OF 27	8'-7" TO 8'-9"
W772	1 SERIES OF 19	8'-8" TO 10'-0"
W473	1 SERIES OF 25	8'-8" TO 10'-0"
W774	1 SERIES OF 19	7'-5" TO 8'-9"
W475	1 SERIES OF 25	7'-5" TO 8'-9"
W776	1 SERIES OF 19	7'-6" TO 8'-10"
W477	1 SERIES OF 25	7'-6" TO 8'-10"
W778	1 SERIES OF 19	6'-3" TO 7'-7"
W479	1 SERIES OF 25	6'-3" TO 7'-7"
W580	1 SERIES OF 19	7'-0" TO 8'-4"
W481	1 SERIES OF 25	7'-0" TO 8'-4"
W582	1 SERIES OF 19	5'-10" TO 7'-0"
W483	1 SERIES OF 25	5'-10" TO 7'-0"
W584	1 SERIES OF 19	6'-5" TO 7'-7"
W485	1 SERIES OF 25	6'-5" TO 7'-7"
W586	1 SERIES OF 19	5'-1" TO 6'-5"
W487	1 SERIES OF 25	5'-1" TO 6'-5"
W588	1 SERIES OF 19	6'-0" TO 7'-2"
W489	1 SERIES OF 25	6'-0" TO 7'-2"
W590	1 SERIES OF 19	4'-10" TO 6'-0"
W491	1 SERIES OF 25	4'-10" TO 6'-0"

BUNDLE AND TAG EACH SERIES SEPARATELY.



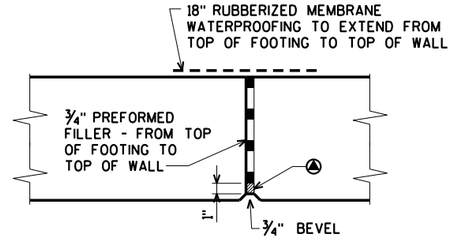
STATE PROJECT NUMBER

5992-09-31



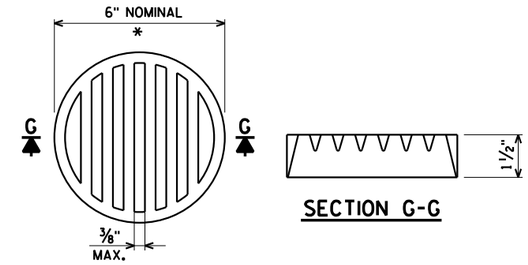
VERTICAL CONTRACTION JOINT DETAIL

DO NOT RUN ANY BAR STEEL THRU JOINT



VERTICAL EXPANSION JOINT DETAIL

DO NOT RUN ANY BAR STEEL THRU JOINT



SECTION G-G

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SCREEN TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH SHEET METAL SCREWS.

RODENT SHIELD DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-309

DRAWN BY JWZ/CKJ | PLANS CK'D. AEB

BILL OF BARS AND DETAILS

SHEET 14 OF 15
585

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

ecpdf.plt
420976 R-13-309 sa.dgn

8

8

8/31/2016

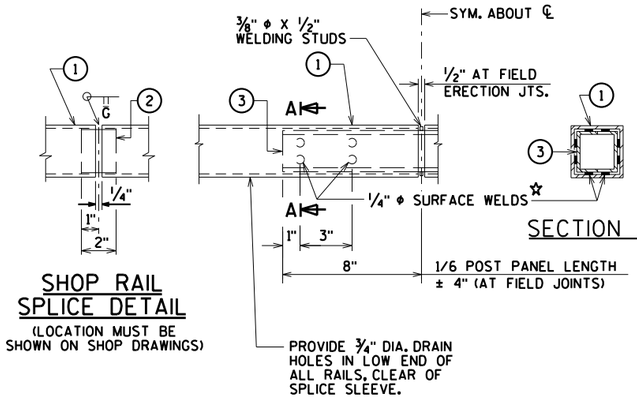
black.tbl

STATE PROJECT NUMBER

5992-09-31

LEGEND

1. STRUCTURAL TUBING 1½" X 1½" X 3/16" OR 3" X 3" X 3/16" RAILS. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION AND EXPANSION JOINTS.
2. RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".
3. RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4" @ FIELD ERECTION)

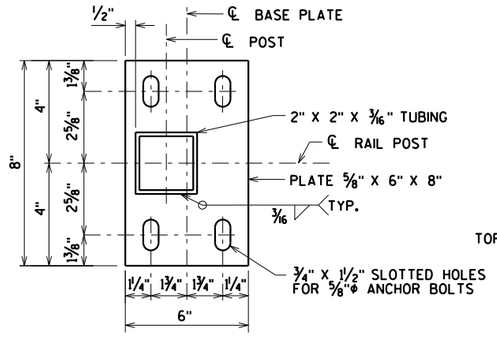


SHOP RAIL SPLICE DETAIL

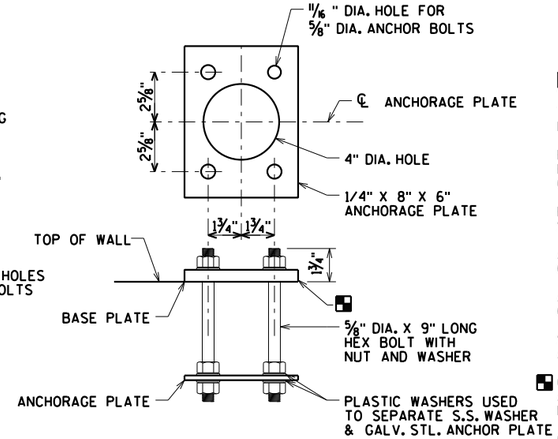
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)

FIELD ERECTION JOINT DETAIL

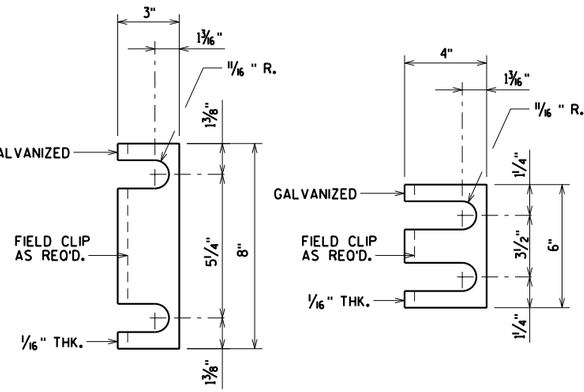
☆ MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



TYPICAL RAIL POST BASE PLATE

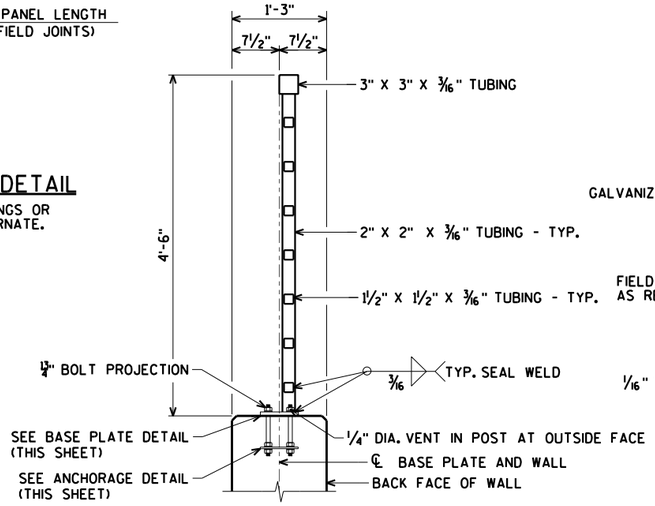


ANCHORAGE DETAIL

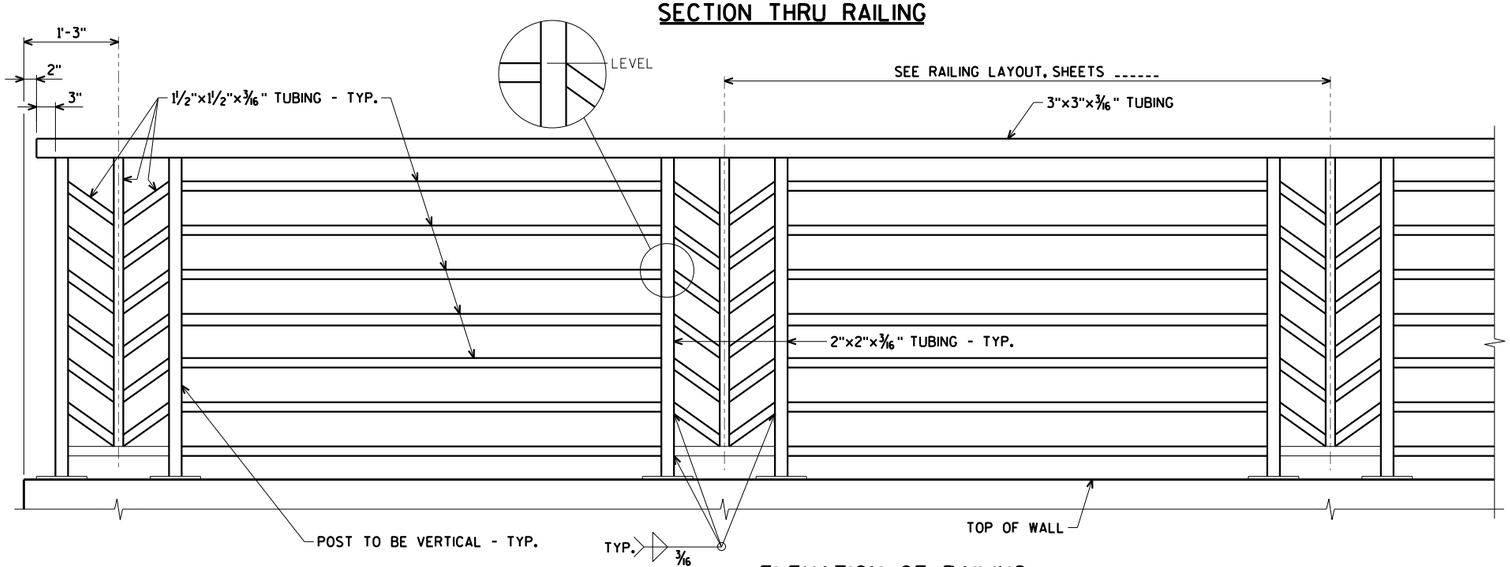


RAIL POST SHIM DETAIL

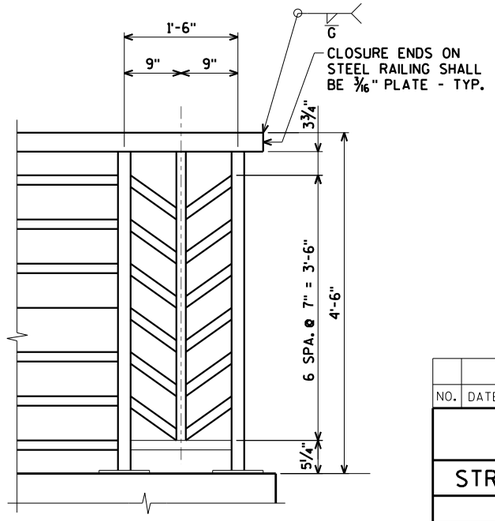
(2 SETS PER POST)



SECTION THRU RAILING



ELEVATION OF RAILING



NOTES

THE BID ITEM SHALL BE "RAILING STEEL PEDESTRIAN, R-13-309" WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT, AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

RAILS AND POSTS TO BE A.S.T.M. A500, GRADE B. BASE PLATES, RECTANGULAR SLEEVES, AND SHIMS TO BE A.S.T.M. A709, GRADE 36.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET POSTS VERTICAL.

ALL POST SPACING IS TAKEN HORIZ. ALONG CENTER LINE OF RAILING AT BASE OF POST.

SHIMS SHALL BE USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT AND SHALL BE GALVANIZED.

■ CAULK AROUND PERIMETER OF BASE PLATES, FILL PORTION OF SLOTTED HOLES AROUND ANCHOR BOLTS IN BASE PLATE, AND SHIM WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

CUT BOTTOM OF POST TO MAKE VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE EITHER STAINLESS STEEL OR 5/8"-DIA. X 9"-LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE - 4 EQUIV. STAINLESS STEEL CONCRETE ADHESIVE ANCHORS, 5/8"-DIA. EMBED A MINIMUM OF 7".)

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE NOT MORE THAN 3 OR 4 POSTS.

ALL MATERIALS, EXCEPT ANCHOR BOLTS, SHALL BE GALVANIZED AFTER FABRICATION, PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS.

PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE COLOR SHALL DUPLICATE SHERWIN WILLIAMS "KENDAL GREEN" (SW6467).

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

TOUCH UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-309

DRAWN BY JWZ/CKJ | PLANS CK'D. AEB

RAILING DETAIL

SHEET 15 OF 15
586

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

ecpdf.plt
420976 R-13-309 rail.dgn

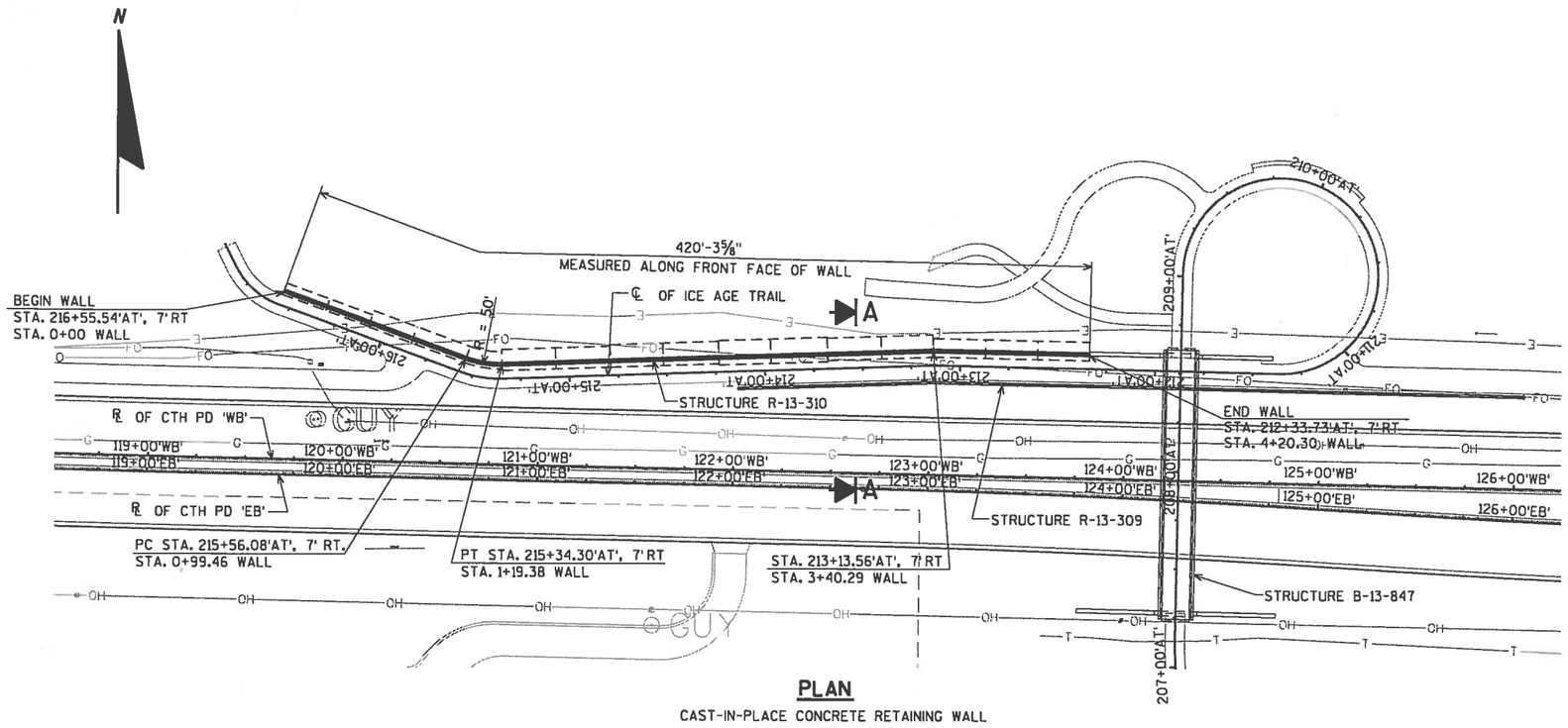
8

8

10/18/2016

black.tbl

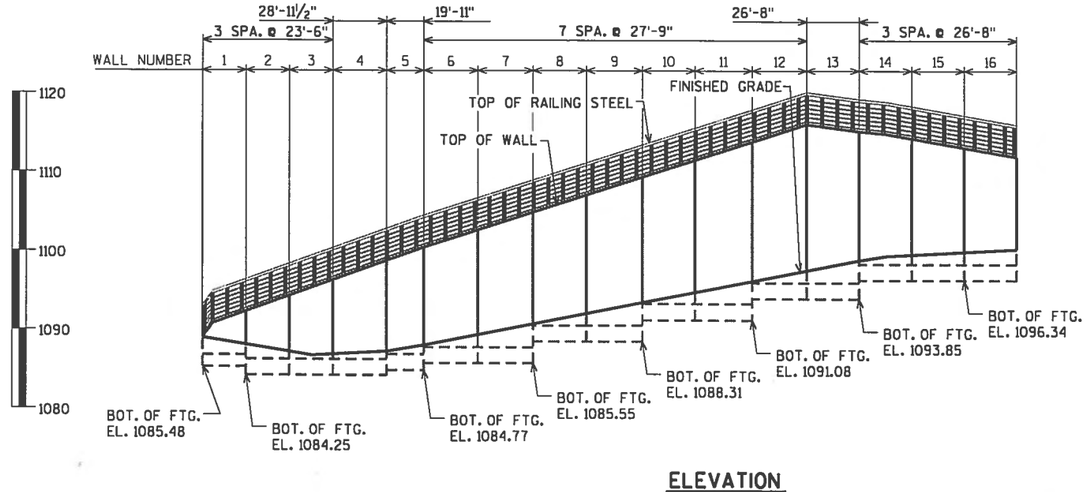
STATE PROJECT NUMBER
5992-09-31



PLAN

CAST-IN-PLACE CONCRETE RETAINING WALL

FOR SECTION A-A SEE SHEET 2.



ELEVATION

(LOOKING AT FRONT FACE OF WALL)

GEOMETRY TABLE

WALL STATION	TRAIL STATION	OFFSET TO F.F. WALL	TOP OF WALL ELEV.	FINISHED GRADE ELEV.
0+00.00	216+55.54'AT'	7.00' RT	1088.98'	1088.98'
0+05.54	216+50.00'AT'	7.00' RT	1090.71'	1088.66'
0+55.54	216+00.00'AT'	7.00' RT	1094.95'	1086.75'
1+04.79	215+50.00'AT'	7.00' RT	1099.14'	1087.33'
1+53.67	215+00.00'AT'	7.00' RT	1103.22'	1089.76'
2+03.67	214+50.00'AT'	7.00' RT	1107.47'	1092.25'
2+53.67	214+00.00'AT'	7.00' RT	1111.71'	1094.75'
3+03.67	213+50.00'AT'	7.00' RT	1115.96'	1097.24'
3+10.92	213+41.94'AT'	7.00' RT	1116.64'	1097.64'
3+54.04	213+00.00'AT'	7.00' RT	1114.85'	1099.44'
4+04.04	212+50.00'AT'	7.00' RT	1112.74'	1100.59'
4+20.30	212+33.73'AT'	7.00' RT	1111.93'	1100.77'

DESIGN DATA

LIVE LOAD:
100 PSF SURCHARGE

MATERIAL PROPERTIES:
CONCRETE MASONRY ——— f'_c = 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) ——— f_y = 60,000 p.s.i.

FOUNDATION DATA:
RETAINING WALL TO BE SUPPORTED ON MATERIAL WITH A MINIMUM FACTORED BEARING RESISTANCE OF 10,000 psf. A GEOTECHNICAL ENGINEER WILL DETERMINE THE FACTORED BEARING RESISTANCE BY VISUAL INSPECTION PRIOR TO CONSTRUCTION OF THE RETAINING WALL FOOTING.

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES AND NOTES
3. SUBSURFACE EXPLORATION
4. WALLS 1 THRU 3
5. WALLS 4 THRU 6
6. WALLS 7 THRU 9
7. WALLS 10 THRU 12
8. WALLS 13 AND 14
9. WALLS 15 AND 16
10. WALLS SECTIONS A THRU C
11. WALLS SECTIONS D AND E
12. BILL OF BARS AND DETAILS
13. RAILING DETAILS

WISCONSIN
DANIEL N. SYDOW
E-38363
WI
PROFESSIONAL ENGINEER
12/9/2016

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
DAN SYDOW
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 12/09/16
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-13-310

RETAINING WALL ALONG CTH PD

COUNTY	DANE	~~TOWN~~/CITY ~~/VILLAGE~~	MADISON

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	AEB	DESIGN CK'D.	JWZ	DRAWN BY	CKJ	PLANS CK'D.	JWZ

GENERAL PLAN

SHEET 1 OF 13
587

DATE:
DATE:
DATE:
CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

11X17-5200.plt
420976 Wall R-13-310 gp CKJ 7-16.dgn

8

12/9/2016

black.tbl

LD

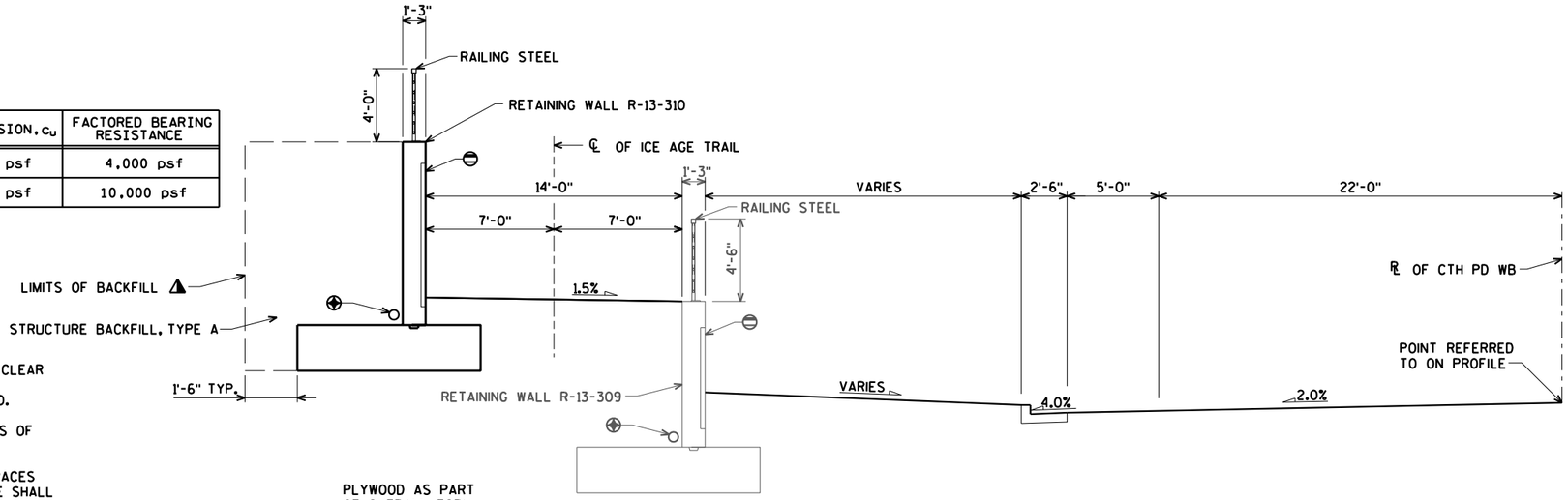
DATE:

STATE PROJECT NUMBER

5992-09-31

SOIL PARAMETERS

SOIL TYPE	FRICTION ANGLE ϕ	MOIST UNIT WEIGHT	COHESION, c_u	FACTORED BEARING RESISTANCE
MEDIUM DENSE SAND, SOME SILT AND GRAVEL	32°	125 pcf	0 psf	4,000 psf
WEATHERED TO COMPETENT BEDROCK	45°	145 pcf	0 psf	10,000 psf



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE OR FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

AT THE BACK FACE OF THE RETAINING WALL ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES RETAINING WALLS R-13-310" SHALL BE THE EXISTING GROUND

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

AT THE BACKFACE OF WALL ALL VOLUME WHICH CANNOT BE PLACED BEFORE WALL CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

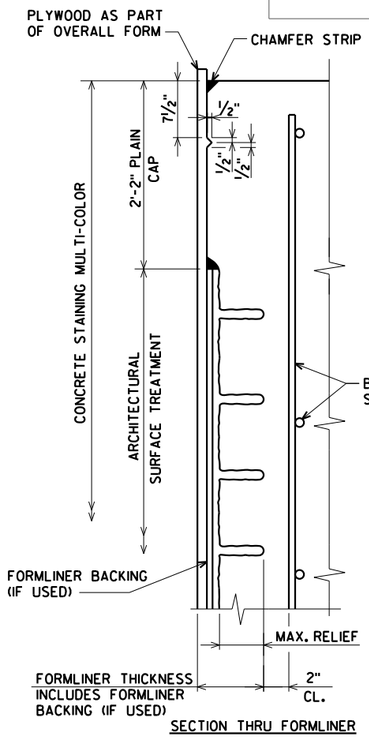
UNSUITABLE MATERIAL UNDER THE FOOTING SHALL BE REMOVED AND REPLACED WITH "SELECT CRUSHED MATERIAL" AS DIRECTED BY THE ENGINEER. OVEREXCAVATION IS INCLUDED IN THE BID ITEM "SELECT CRUSHED MATERIAL".

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	AMOUNT
	206.3000	EXCAVATION FOR STRUCTURES RETAINING WALLS	1 LS
	210.1500	BACKFILL STRUCTURE TYPE A	3,840 TON
	312.0110	SELECT CRUSHED MATERIAL	40 TON
	504.0500	CONCRETE MASONRY RETAINING WALLS	621 CY
	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	36,160 LB
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	52,110 LB
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	39 SY
①	517.1015.S	CONCRETE STAINING MULTI-COLOR R-13-310	6,160 SF
	517.1050.S	ARCHITECTURAL SURFACE TREATMENT R-13-310	5,040 SF
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	445 LF
②	SPV.0090.008	RAILING STEEL PEDESTRIAN R-13-310	442 LF

① BASE COLOR TO BE INTERACTIVE CREAM (SW6113) AND TOTALLY TAN (SW6115) WITH PEARL GRAY (FEDERAL COLOR 26622) MORTAR LINES.

② PAINT COLOR TO BE KENDAL GREEN (SW6467).



SECTION THRU FORMLINER

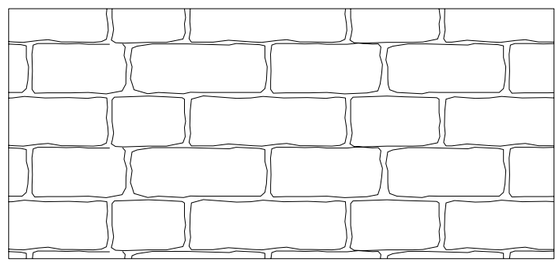
FORMLINER COURSING ON RETAINING WALLS SHALL BE LEVEL

MULTI-COLOR STAINING AND FORMLINER PATTERN TO BE CONTINUOUS ACROSS VERTICAL WALL JOINTS. DO NOT STAIN VERTICAL WALL JOINT LIKE A MORTAR JOINT.

SECTION A-A

⊖ ARCHITECTURAL SURFACE TREATMENT (RECTANGULAR CUT STONE) - TYP.

⊕ PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN. TO SUITABLE DRAINAGE



RECTANGULAR CUT STONE

FORMLINER THICKNESS = 3¾"
SIZE = 14" TO 18" COURSING. STONE LENGTH VARIES 16" TO 72"
MAX. RELIEF = 3"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-310

DRAWN BY CKJ | PLANS CK'D. AEB

QUANTITIES AND NOTES

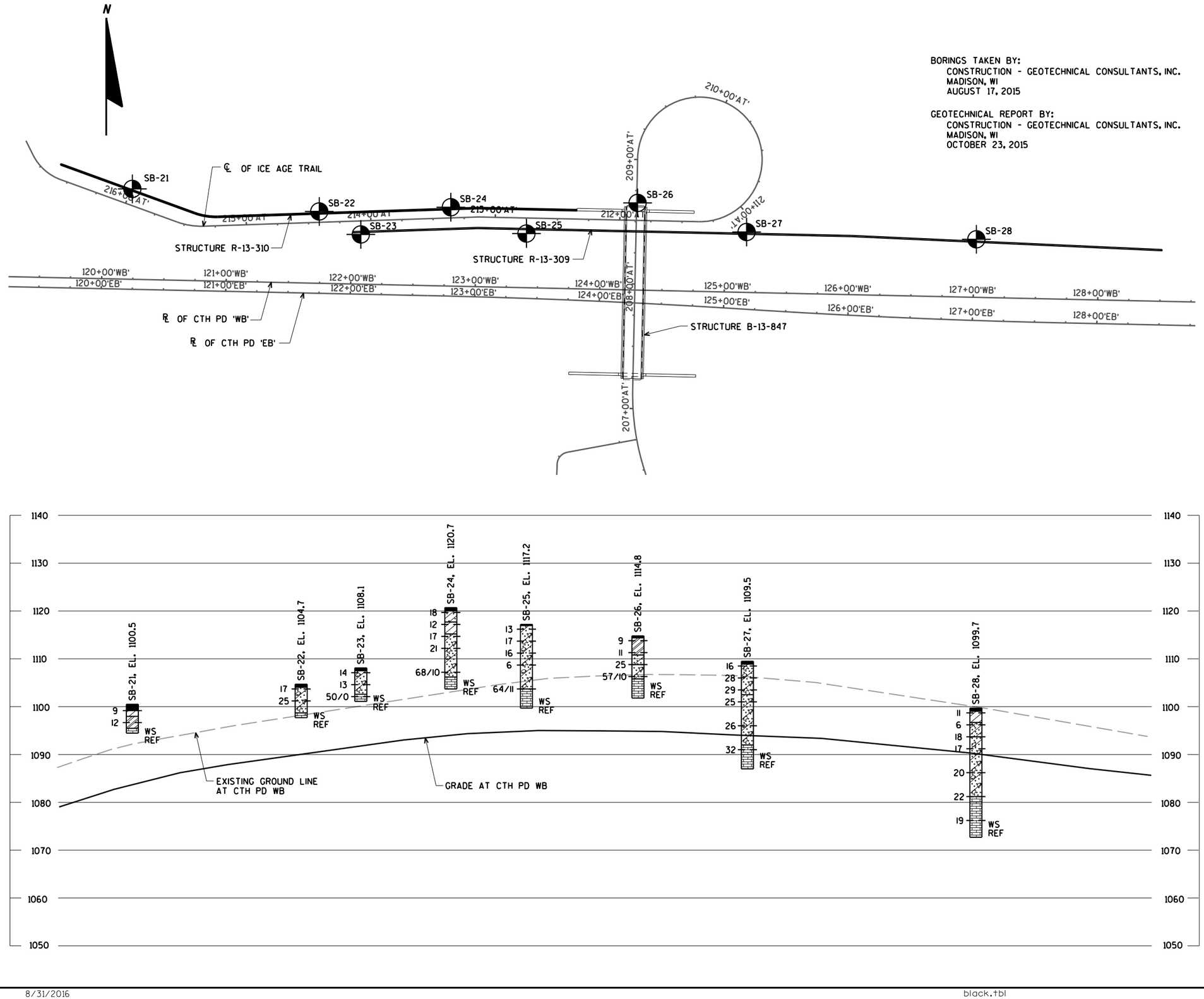
SHEET 2 OF 13
588

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

8

8

ecpdf.plt
420976 Wall R-13-310 gp CKJ 7-16.dgn
12/9/2016
black.tbl



BORINGS TAKEN BY:
CONSTRUCTION - GEOTECHNICAL CONSULTANTS, INC.
MADISON, WI
AUGUST 17, 2015

GEOTECHNICAL REPORT BY:
CONSTRUCTION - GEOTECHNICAL CONSULTANTS, INC.
MADISON, WI
OCTOBER 23, 2015

STATE PROJECT NUMBER

5992-09-31

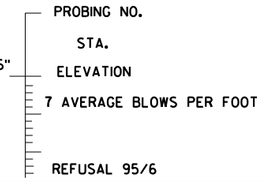
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

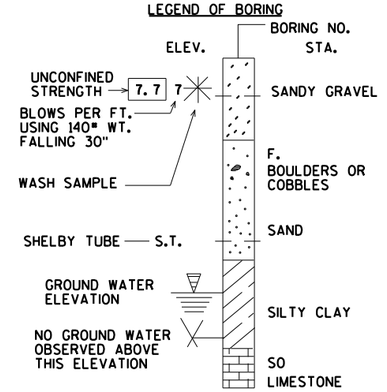
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-310

DRAWN BY CKJ | PLANS CK'D. AEB

SUBSURFACE EXPLORATION

SHEET 3 OF 13
589

8

8

ecpdf.plt
420976 wall R-13-310 soils CKJ 7-16.dgn

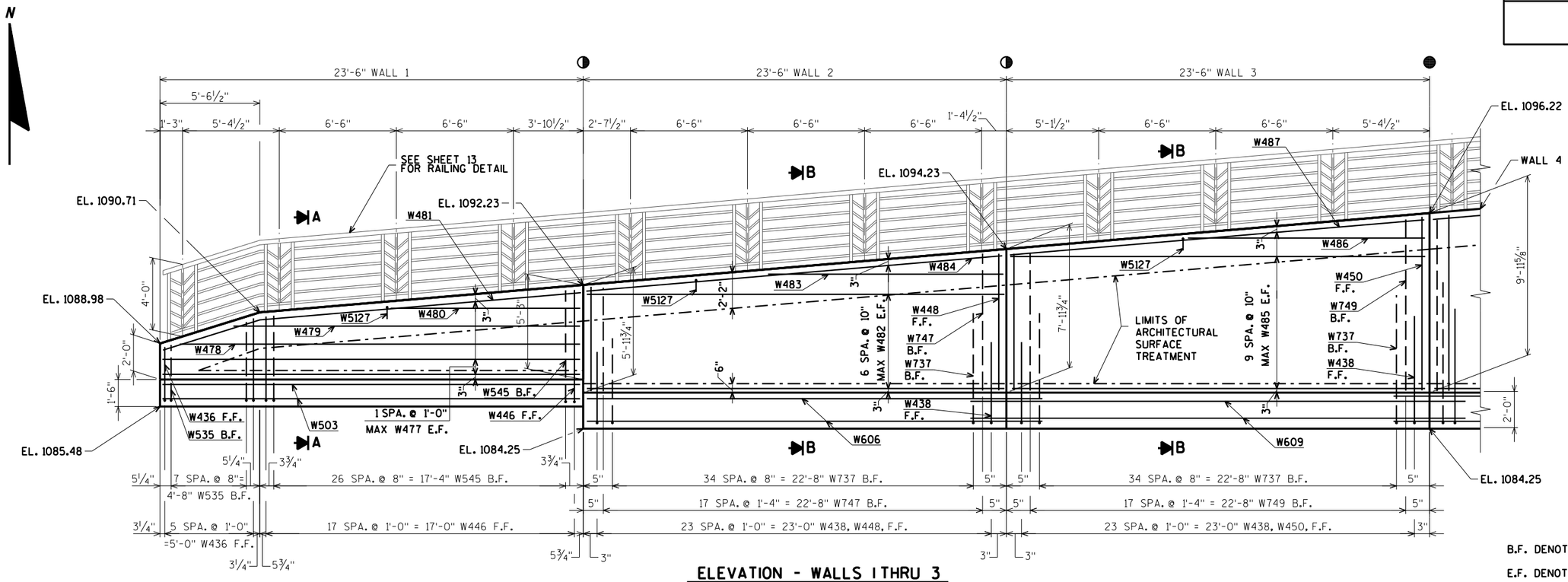
8/31/2016

black.tbl

ecpdf.plt
420976 R-13-310 WALLS 1-16 CKJ 7-16.dgn
8/31/2016
black.tbl

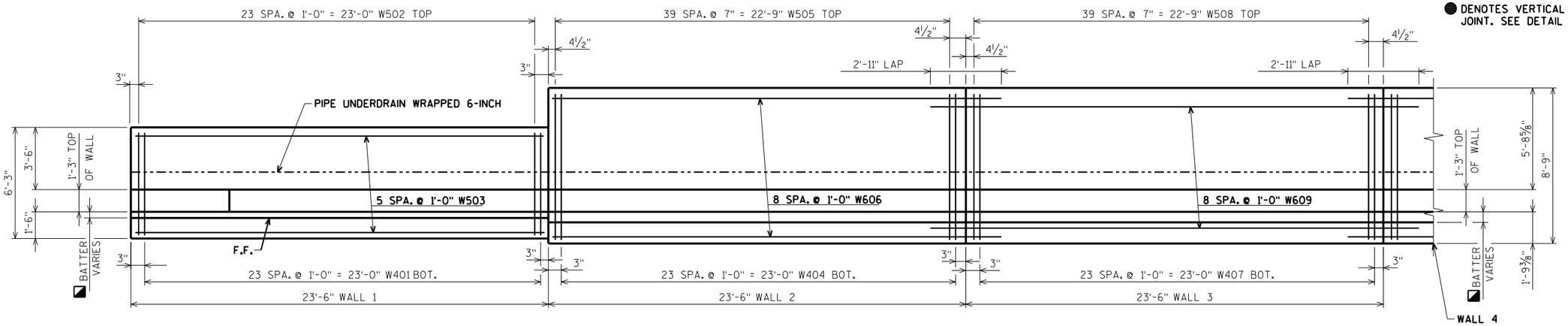
STATE PROJECT NUMBER

5992-09-31



ELEVATION - WALLS 1 THRU 3

LOOKING NORTH AT FRONT FACE OF WALL



PLAN - WALLS 1 THRU 3

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 12

● DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 12

◪ BATTER WALL FRONT FACE 1/4 INCH PER FOOT.
FOR WALL 1 FRONT FACE BATTER VARIES FROM 1¼" MAX. TO ½" MIN.
FOR WALL 2 TO 4 FRONT FACE BATTER VARIES FROM 3⅛" MAX. TO 1½" MIN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-310

DRAWN BY CKJ | PLANS CK'D. AEB

WALLS 1 THRU 3

SHEET 4 OF 13

590

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

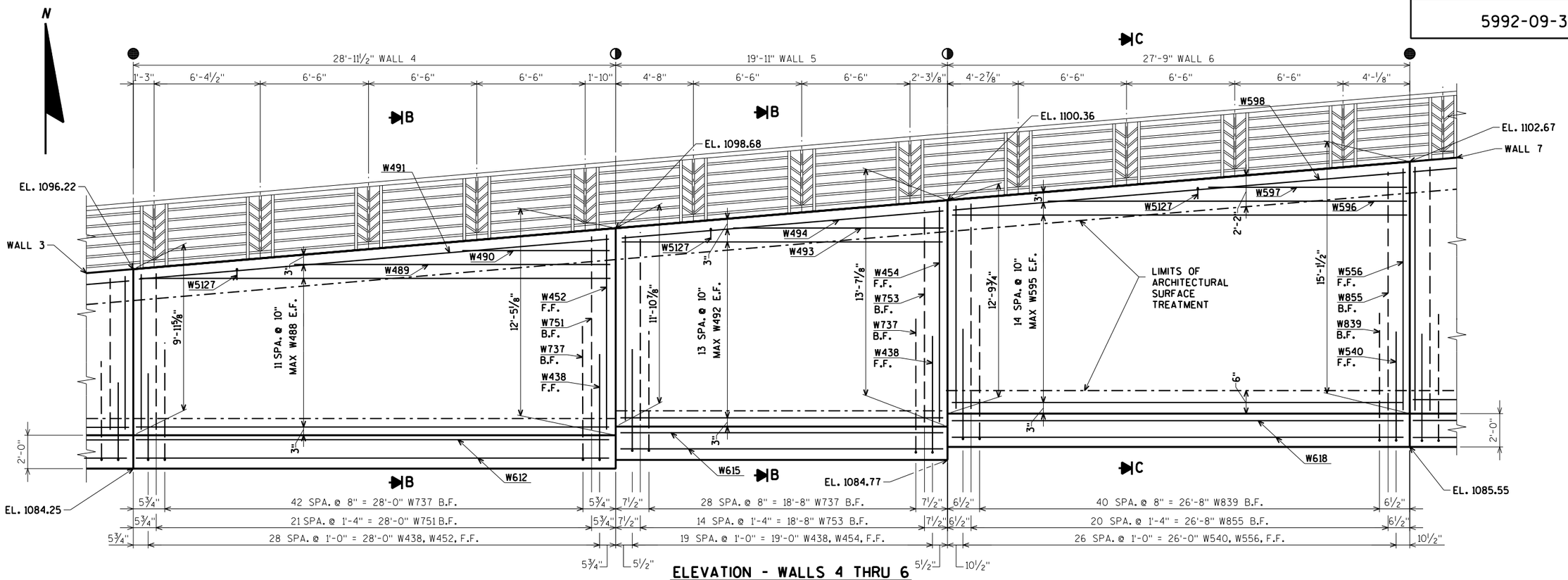
FILE= R-13-166 WALLS.DGN

8

8

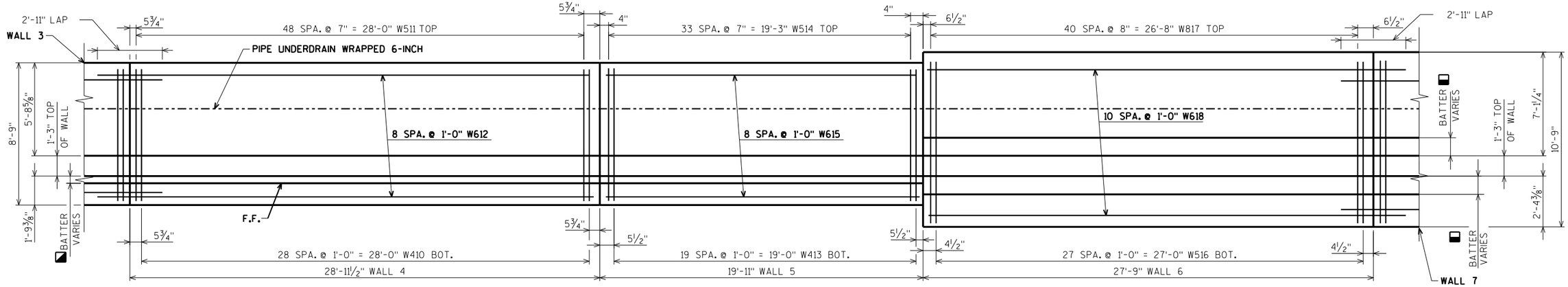
STATE PROJECT NUMBER

5992-09-31



ELEVATION - WALLS 4 THRU 6

LOOKING NORTH AT FRONT FACE OF WALL



PLAN - WALLS 4 THRU 6

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 12

● DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 12

◪ BATTER WALL FRONT FACE ¼ INCH PER FOOT.
FOR WALL 2 TO 4 FRONT FACE BATTER VARIES FROM 3⅛" MAX. TO 1½" MIN.
FOR WALL 5 FRONT FACE BATTER VARIES FROM 3⅜" MAX. TO 3" MIN.

⬓ BATTER WALL FRONT FACE ¼ INCH PER FOOT AND WALL BACKFACE ½ INCH PER FOOT.
FOR WALL 6 TO 7 FRONT FACE BATTER VARIES FROM 4⅜" MAX. TO 3¼" MIN.
AND BACK FACE BATTER VARIES FROM 8¾" MAX. TO 6⅜" MIN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-310

DRAWN BY CKJ | PLANS CK'D. AEB

WALLS 4 THRU 6

SHEET 5 OF 13
591

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

FILE= R-13-166 WALLS.DGN

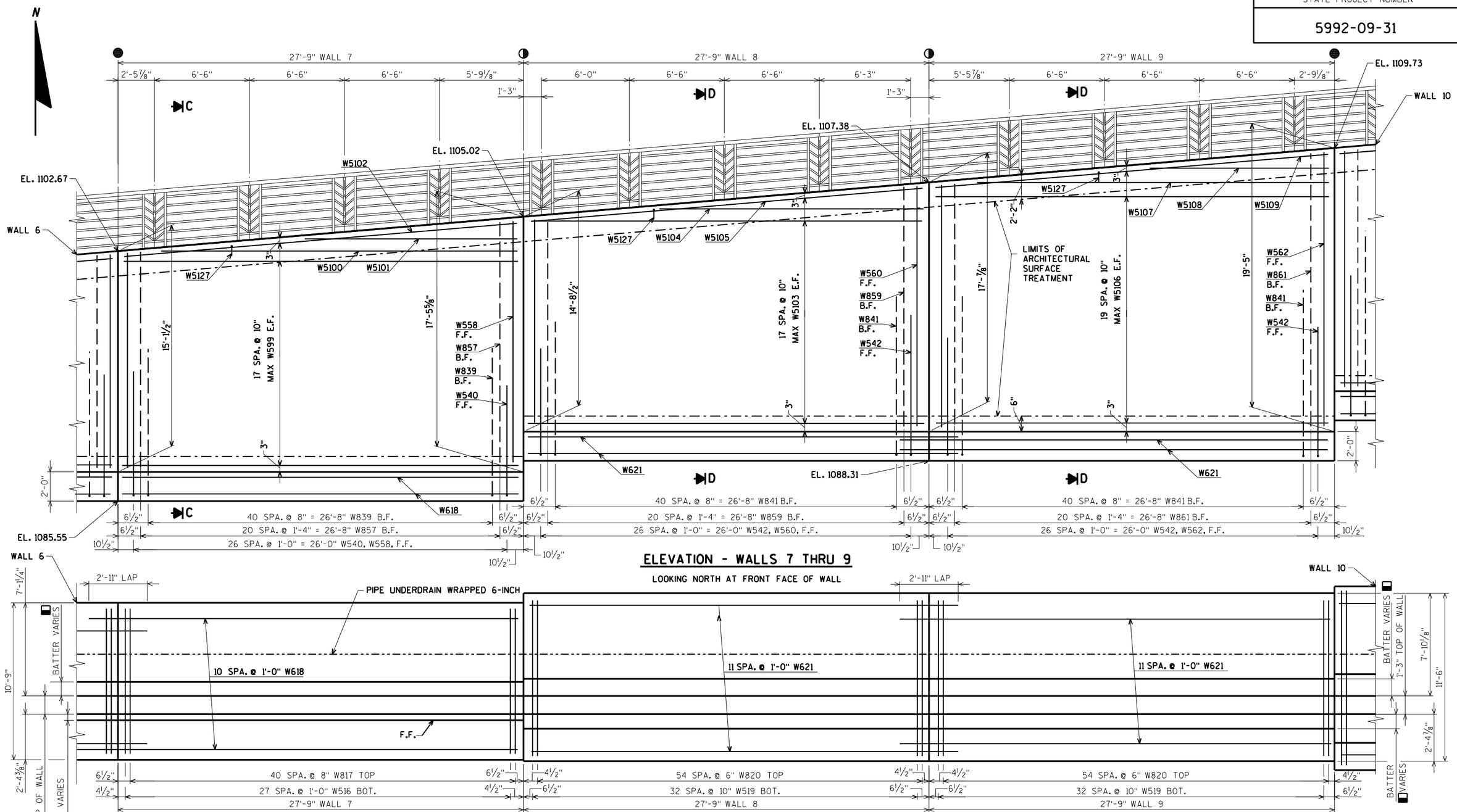
ecpdf.plt 420976 R-13-310 WALLS 1-16 CKJ 7-16.dgn 12/7/2016 black.tbl

8

8

STATE PROJECT NUMBER

5992-09-31



ELEVATION - WALLS 7 THRU 9

LOOKING NORTH AT FRONT FACE OF WALL

PLAN - WALLS 7 THRU 9

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 12

● DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 12

▭ BATTER WALL FRONT FACE ¼ INCH PER FOOT AND WALL BACKFACE ½ INCH PER FOOT.
FOR WALL 6 TO 7 FRONT FACE BATTER VARIES FROM 4⅜" MAX. TO 3¼" MIN.
AND BACK FACE BATTER VARIES FROM 8¾" MAX. TO 6⅜" MIN.
FOR WALL 8 TO 9 FRONT FACE BATTER VARIES FROM 4⅞" MAX. TO 3⅝" MIN.
AND BACK FACE BATTER VARIES FROM 9¾" MAX. TO 7⅜" MIN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-310

DRAWN BY CKJ | PLANS CK'D. AEB

WALLS 7 THRU 9

SHEET 6 OF 13
592

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

8

8

ecpdf.plt
420976 R-13-310 WALLS 1-16 CKJ 7-16.dgn
12/7/2016
black.tbl

FILE= R-13-166 WALLS.DGN

ecpdf.plt
420976 R-13-310 WALLS 1-16 CKJ 7-16.dgn
12/7/2016
black.tbl

STATE PROJECT NUMBER

5992-09-31

N

27'-9" WALL 10 | 27'-9" WALL 11 | 27'-9" WALL 12

3'-8⅞" | 6'-6" | 6'-6" | 6'-6" | 4'-6⅛" | 1'-11⅞" | 6'-6" | 6'-6" | 6'-6" | 6'-3⅛" | 6'-8⅞" | 6'-6" | 6'-6" | 6'-6" | 1'-6⅛"

EL. 1109.73 — WALL 9 — EL. 1112.09 — EL. 1114.45 — EL. 1115.74 — WALL 13 — EL. 1115.96 — EL. 1093.85 — EL. 1091.08

W5111 W5112 W5113 W5115 W5116 W5117 W5119 W5120 W5127

LIMITS OF ARCHITECTURAL SURFACE TREATMENT

16'-4⅞" | 2'-2" | 2'-3" | 6" | 3" | 18'-9⅛" | 21'-1½" | 18'-7¼" | 20'-1⅜" | 19'-10⅝" | 2'-0"

21 SPA. @ 9" MAX W5110 E.F. — W564 F.F. — W963 B.F. — W943 B.F. — W544 F.F.

24 SPA. @ 9" MAX W5114 E.F. — W566 F.F. — W965 B.F. — W943 B.F. — W544 F.F.

21 SPA. @ 10" MAX W5118 E.F. — W568 F.F. — W867 B.F. — W841 B.F. — W542 F.F.

W624 — W627

4½" | 10½" | 6½"

36 SPA. @ 9" = 27'-0" W943 B.F.
18 SPA. @ 1'-6" = 27'-0" W963 B.F.
26 SPA. @ 1'-0" = 26'-0" W544, W564, F.F.

36 SPA. @ 9" = 27'-0" W943 B.F.
18 SPA. @ 1'-6" = 27'-0" W965 B.F.
26 SPA. @ 1'-0" = 26'-0" W544, W566, F.F.

40 SPA. @ 8" = 26'-8" W841 B.F.
20 SPA. @ 1'-4" = 26'-8" W867 B.F.
26 SPA. @ 1'-0" = 26'-0" W542, W568, F.F.

ELEVATION - WALLS 10 THRU 12

LOOKING NORTH AT FRONT FACE OF WALL

WALL 9 — PIPE UNDERDRAIN WRAPPED 6-INCH — 2'-11" LAP — WALL 13

12'-6" | 8'-3¾" | 1'-3" TOP OF WALL | BATTER VARIES | 2'-11¼"

12 SPA. @ 1'-0" W624 — 12 SPA. @ 1'-0" W624 — 11 SPA. @ 1'-0" W627

F.F.

27'-9" WALL 12
54 SPA. @ 6" = 27'-0" W826 TOP
32 SPA. @ 10" = 26'-8" W525 BOT.

BATTER VARIES | 1'-3" TOP OF WALL | 7'-10" | 11'-6" | 2'-5"

4½" | 6½"

54 SPA. @ 6" = 27'-0" W823 TOP
40 SPA. @ 8" = 26'-8" W522 BOT.
27'-9" WALL 10

54 SPA. @ 6" = 27'-0" W823 TOP
40 SPA. @ 8" = 26'-8" W522 BOT.
27'-9" WALL 11

PLAN - WALLS 10 THRU 12

BATTER WALL FRONT FACE ¼ INCH PER FOOT AND WALL BACKFACE ½ INCH PER FOOT.
FOR WALL 10 TO 11 FRONT FACE BATTER VARIES FROM 5¼" MAX. TO 4⅛" MIN.
AND BACK FACE BATTER VARIES FROM 10½" MAX. TO 8¼" MIN.
FOR WALL 12 TO 13 FRONT FACE BATTER VARIES FROM 5" MAX. TO 4⅝" MIN.
AND BACK FACE BATTER VARIES FROM 10" MAX. TO 9¼" MIN.

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 12

DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 12

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-310

DRAWN BY CKJ | PLANS CK'D. AEB

WALLS 10 THRU 12

SHEET 7 OF 13
593

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

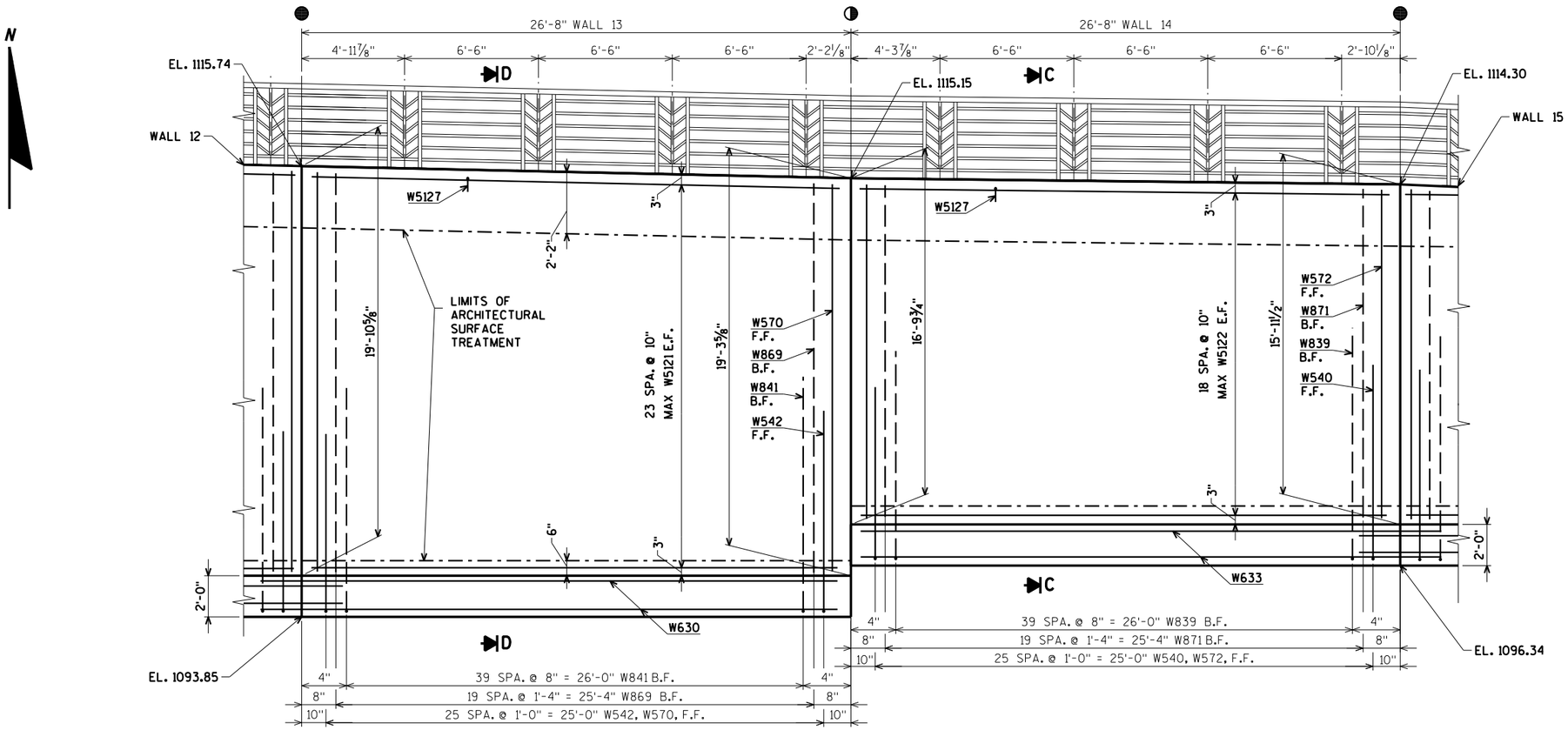
FILE= R-13-166 WALLS.DGN

8

8

STATE PROJECT NUMBER

5992-09-31



B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

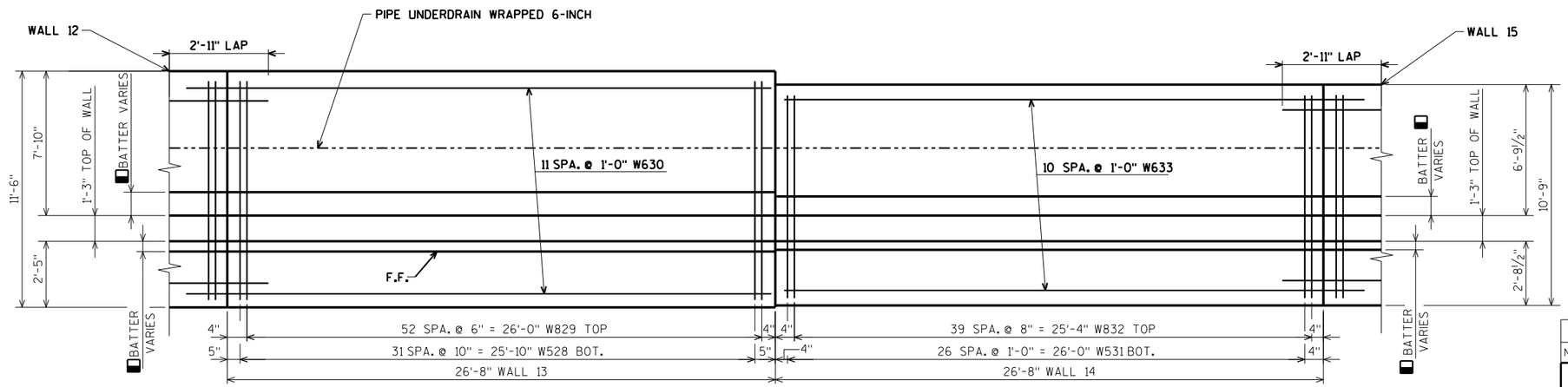
F.F. DENOTES FRONT FACE

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 12

● DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 12

ELEVATION - WALLS 13 AND 14

LOOKING NORTH AT FRONT FACE OF WALL



PLAN - WALLS 13 AND 14

BATTER WALL FRONT FACE ¼ INCH PER FOOT AND WALL BACKFACE ½ INCH PER FOOT.
FOR WALL 12 TO 13 FRONT FACE BATTER VARIES FROM 5" MAX. TO 4⅝" MIN.
AND BACK FACE BATTER VARIES FROM 10" MAX. TO 9¼" MIN.
FOR WALL 14 TO 16 FRONT FACE BATTER VARIES FROM 4¼" MAX. TO 3⅜" MIN.
AND BACK FACE BATTER VARIES FROM 8½" MAX. TO 6¾" MIN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-310

DRAWN BY CKJ | PLANS CK'D. AEB

WALLS 13 AND 14

SHEET 8 OF 13

594

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

ecpdf.plt 420976 R-13-310 WALLS 1-16 CKJ 7-16.dgn 12/7/2016 black.tbl

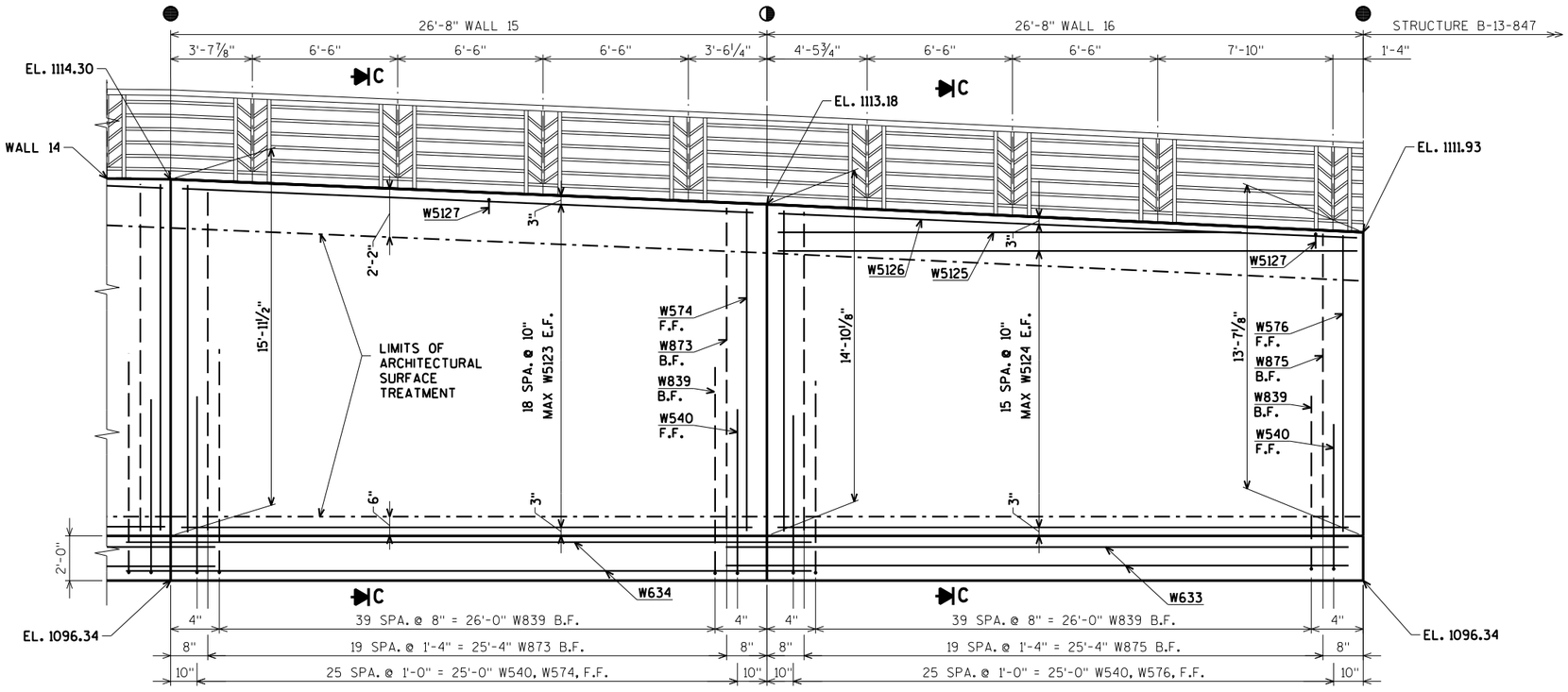
FILE= R-13-166 WALLS.DGN

8

8

ecpdf.plt
420976 R-13-310 WALLS 1-16 CKJ 7-16.dgn
12/7/2016
black.tbl

N



B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

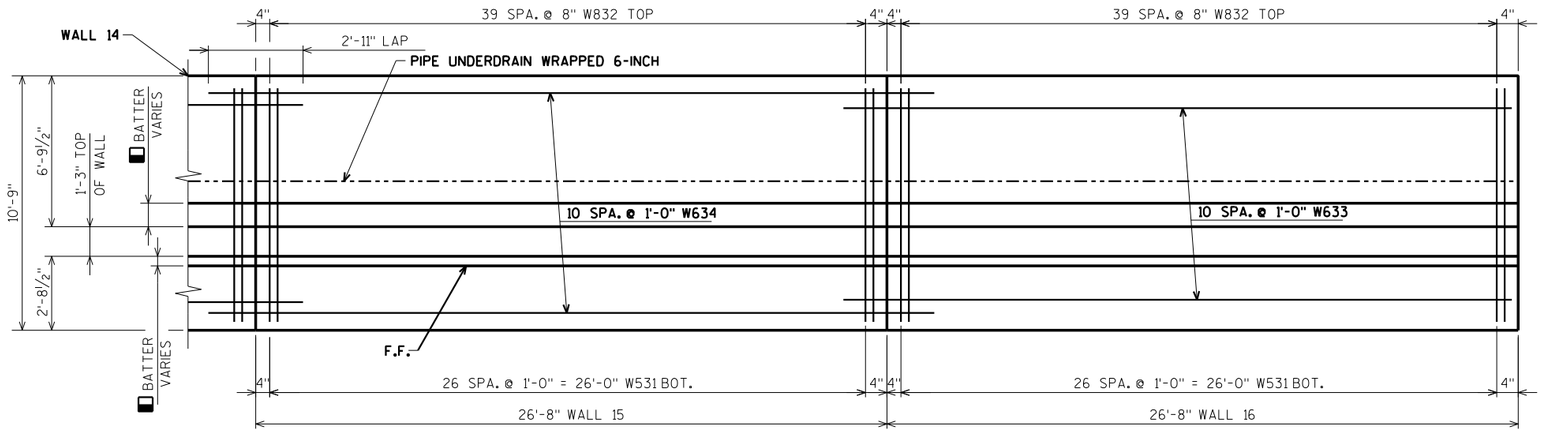
F.F. DENOTES FRONT FACE

◑ DENOTES VERTICAL CONTRACTION JOINT. SEE DETAIL ON SHEET 12

● DENOTES VERTICAL EXPANSION JOINT. SEE DETAIL ON SHEET 12

ELEVATION - WALLS 15 AND 16

LOOKING NORTH AT FRONT FACE OF WALL



▬ BATTER WALL FRONT FACE ¼ INCH PER FOOT AND WALL BACKFACE ½ INCH PER FOOT. FOR WALL 15 TO 16 FRONT FACE BATTER VARIES FROM 4¼" MAX. TO 3⅜" MIN. AND BACK FACE BATTER VARIES FROM 8½" MAX. TO 6¾" MIN.

PLAN - WALLS 15 AND 16

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-310

DRAWN BY CKJ | PLANS CK'D. AEB

WALLS 15 AND 16

SHEET 9 OF 13

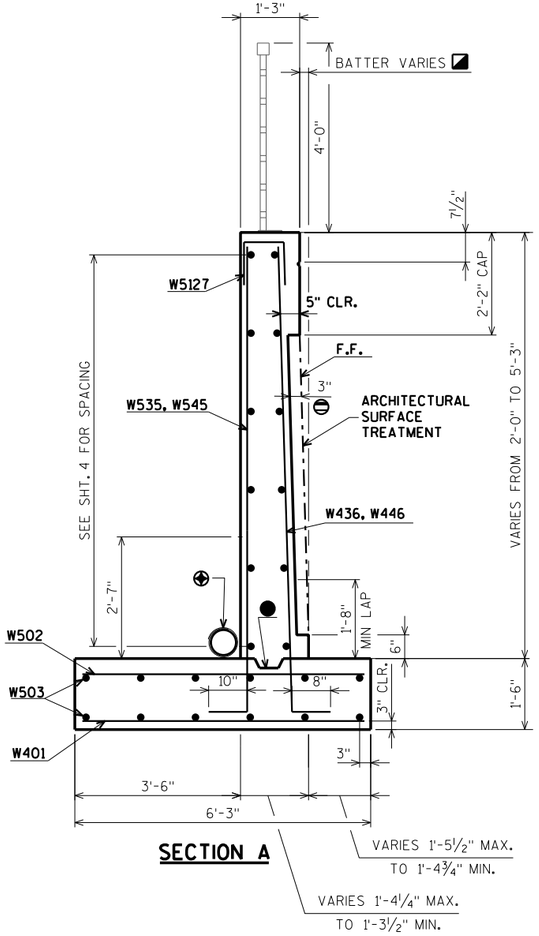
595

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

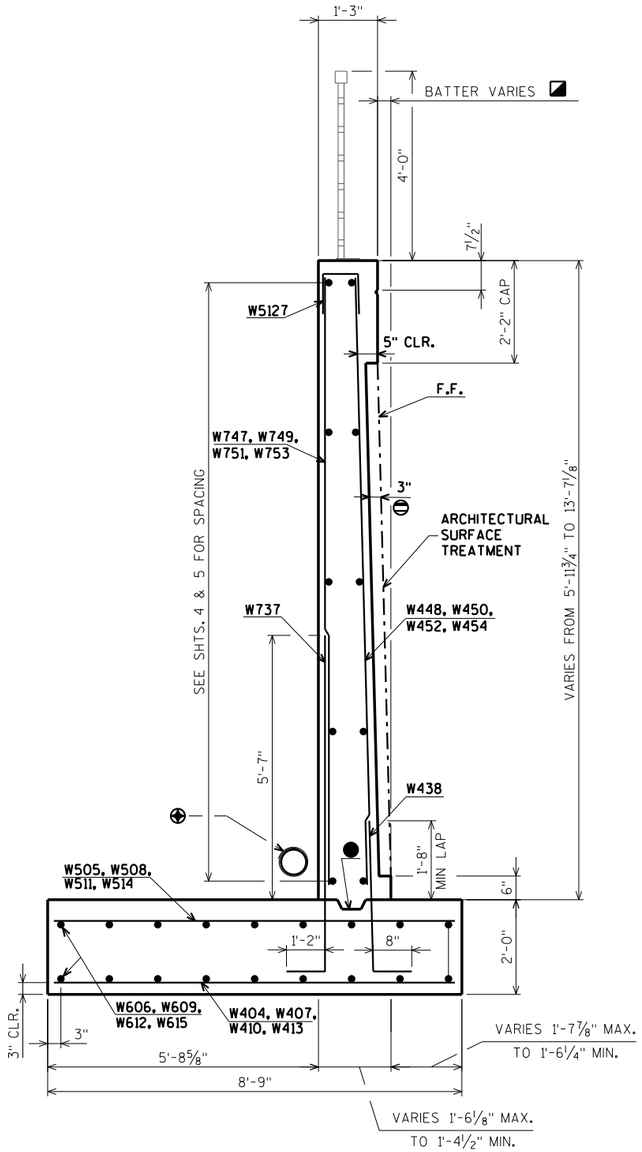
FILE= R-13-166 WALLS.DGN

8

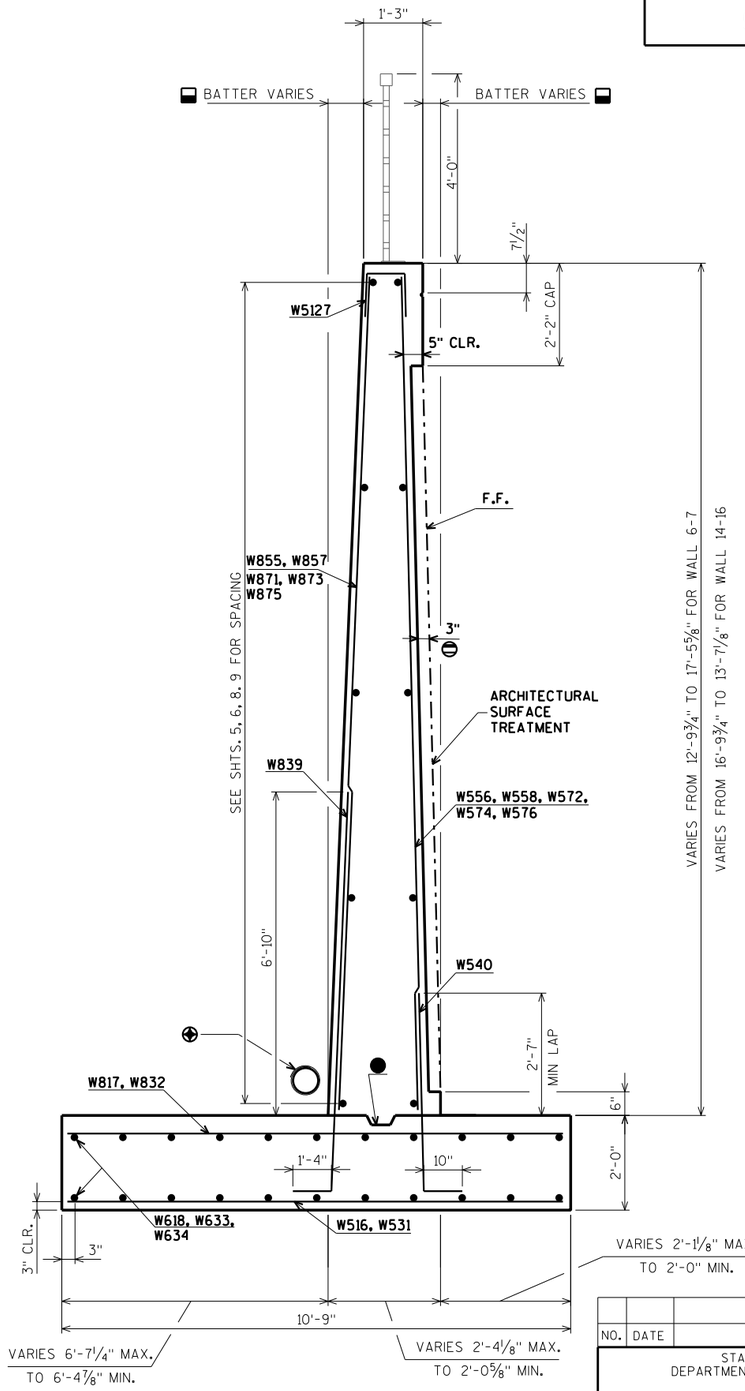
8



SECTION A



SECTION B



SECTION C

● OPT. KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.

⊕ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH". SEE SHEET 12 FOR DETAILS.

⊖ ARCHITECTURAL SURFACE TREATMENT (RECTANGULAR CUT STONE) - TYP. SEE SHEET 2 FOR DETAILS.

◪ BATTER WALL FRONT FACE ¼ INCH PER FOOT

⬓ BATTER WALL FRONT FACE ¼ INCH PER FOOT AND WALL BACK FACE ½ INCH PER FOOT.

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-310

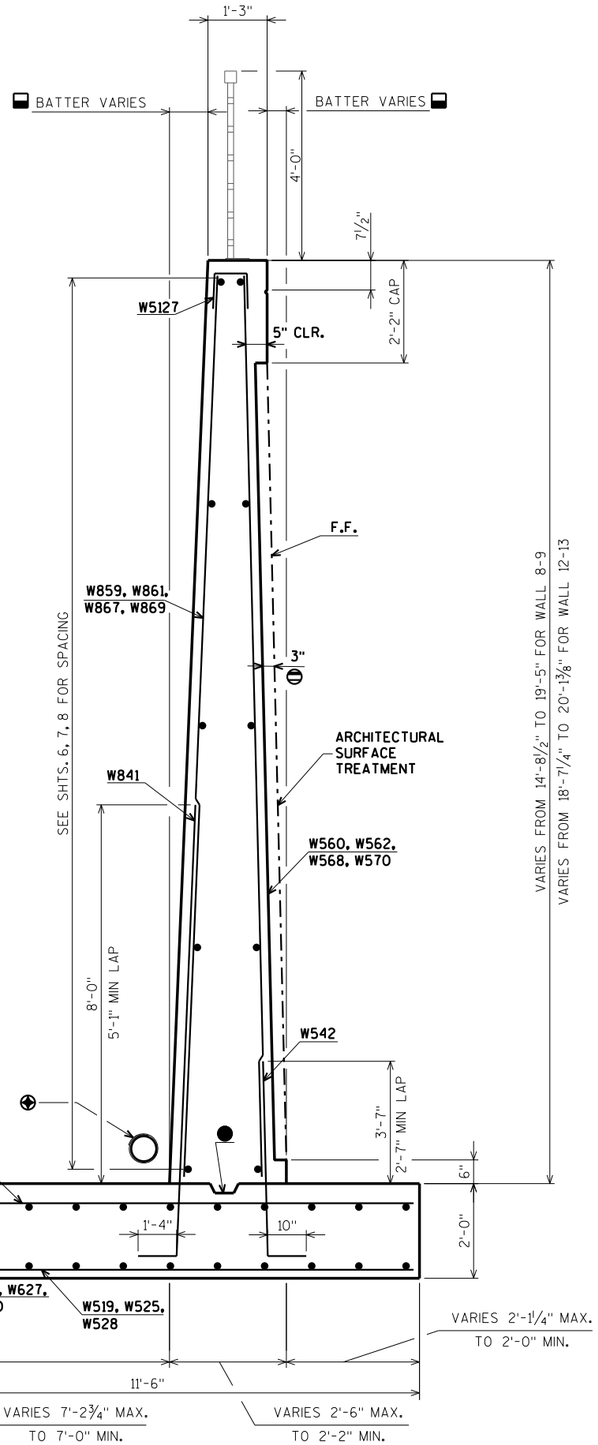
DRAWN BY CKJ | PLANS CK'D. AEB

WALL SECTIONS A THRU C

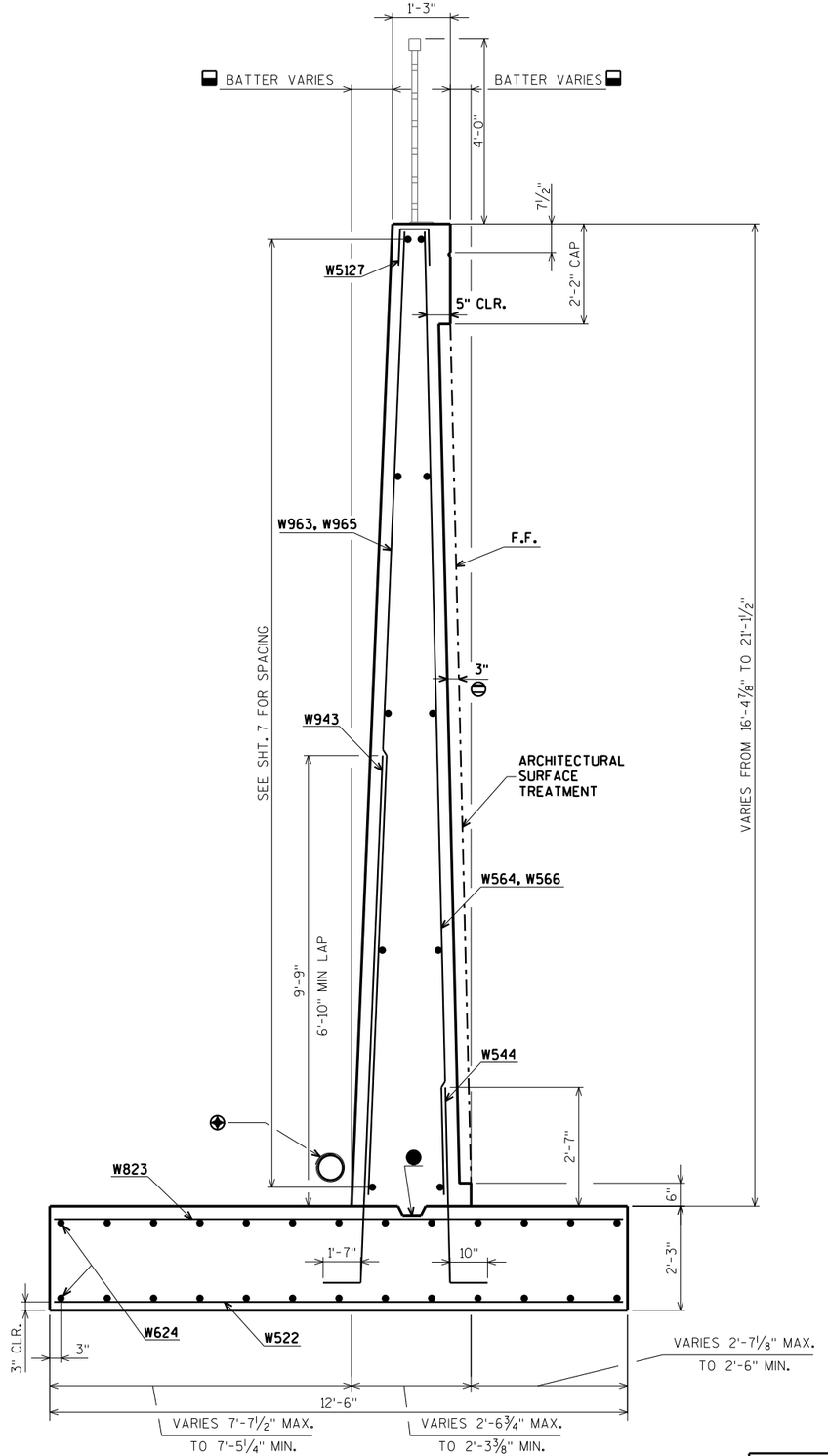
SHEET 10 OF 13
596

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

black.tbl
8/31/2016
ecpdf.plt
420976 R-13-310 X-SECT A-E CKJ 7-16.dgn
FILE= R-13-166 WALLS.DGN



SECTION D



SECTION E

- ● OPT. KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6" WITH RUBBERIZED MEMBRANE WATERPROOFING ON B.F.
- ⊕ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD TO BE INCLUDED IN BID PRICE OF "PIPE UNDERDRAIN WRAPPED 6-INCH". SEE SHEET 12 FOR DETAILS.
- ⊖ ARCHITECTURAL SURFACE TREATMENT (RECTANGULAR CUT STONE) - TYP. SEE SHEET 2 FOR DETAILS.
- BATTER WALL FRONT FACE ¼ INCH PER FOOT AND WALL BACK FACE ½ INCH PER FOOT.

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-310

DRAWN BY CKJ | PLANS CK'D. AEB

WALL SECTIONS
D AND E

SHEET 11 OF 13
597

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

black.tbl
8/31/2016
ecpdf.plt
420976 R-13-310 X-SECT A-E CKJ 7-16.dgn
FILE= R-13-166 WALLS.DGN

8

BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED	BAR SERIES	LOCATION
W401		24	5-11				FTG-TRANS.BOT.-SECT.A-WALL 1
W502		24	5-11				FTG-TRANS.TOP-SECT.A-WALL 1
W503		12	23-2				FTG-LONG.TOP&BOT.-SECT.A-WALL 1
W404		24	8-5				FTG-TRANS.BOT.-SECT.B-WALL 2
W505		40	8-5				FTG-TRANS.TOP-SECT.B-WALL 2
W606		18	24-10				FTG-LONG.TOP&BOT.-SECT.B-WALL 2
W407		24	8-5				FTG-TRANS.BOT.-SECT.B-WALL 3
W508		40	8-5				FTG-TRANS.TOP-SECT.B-WALL 3
W609		18	26-5				FTG-LONG.TOP&BOT.-SECT.B-WALL 3
W410		29	8-5				FTG-TRANS.BOT.-SECT.B-WALL 4
W511		49	8-5				FTG-TRANS.TOP-SECT.B-WALL 4
W612		18	30-3				FTG-LONG.TOP&BOT.-SECT.B-WALL 4
W413		20	8-5				FTG-TRANS.BOT.-SECT.B-WALL 5
W514		34	8-5				FTG-TRANS.TOP-SECT.B-WALL 5
W615		18	19-7				FTG-LONG.TOP&BOT.-SECT.B-WALL 5
W516		56	10-5				FTG-TRANS.BOT.-SECT.C-WALLS 6&7
W817		82	10-5				FTG-TRANS.TOP-SECT.C-WALLS 6&7
W618		44	29-1				FTG-LONG.TOP&BOT.-SECT.C-WALLS 6&7
W519		66	11-2				FTG-TRANS.BOT.-SECT.D-WALLS 8&9
W820		110	11-2				FTG-TRANS.TOP-SECT.D-WALLS 8&9
W621		48	29-1				FTG-LONG.TOP&BOT.-SECT.D-WALLS 8&9
W522		82	12-2				FTG-TRANS.BOT.-SECT.E-WALLS 10&11
W823		110	12-2				FTG-TRANS.TOP-SECT.E-WALLS 10&11
W624		52	29-1				FTG-LONG.TOP&BOT.-SECT.E-WALLS 10&11
W525		33	11-2				FTG-TRANS.BOT.-SECT.D-WALL 12
W826		55	11-2				FTG-TRANS.TOP-SECT.D-WALL 12
W627		24	29-1				FTG-LONG.TOP&BOT.-SECT.D-WALL 12
W528		32	11-2				FTG-TRANS.BOT.-SECT.D-WALL 13
W829		53	11-2				FTG-TRANS.TOP-SECT.D-WALL 13
W630		24	28-0				FTG-LONG.TOP&BOT.-SECT.D-WALL 13
W531		81	10-5				FTG-TRANS.BOT.-SECT.C-WALLS 14 THRU 16
W832		120	10-5				FTG-TRANS.TOP-SECT.C-WALLS 14 THRU 16
W633		44	28-0				FTG-LONG.TOP&BOT.-SECT.C-WALLS 14&16
W634		22	29-7				FTG-LONG.TOP&BOT.-SECT.C-WALL 15
W535	X	8	4-7	X		⊗	FTG/WALL-VERT.B.F.-SECT.A-WALL 1
W436	X	6	4-6	X		⊗	FTG/WALL-VERT.F.F.-SECT.A-WALL 1
W737	X	142	8-4	X			FTG-VERT.B.F.-SECT.B-WALLS 2 THRU 5
W438	X	97	4-0	X			FTG-VERT.F.F.-SECT.B-WALLS 2 THRU 5
W839	X	202	10-0	X			FTG-VERT.B.F.-SECT.C-WALLS 6,7,14,15,16
W540	X	132	5-3	X			FTG-VERT.F.F.-SECT.C-WALLS 6,7,14,15,16
W841	X	163	11-0	X			FTG-VERT.B.F.-SECT.D-WALLS 8,9,12,13
W542	X	107	6-3	X			FTG-VERT.F.F.-SECT.D-WALLS 8,9,12,13
W943	X	74	13-3	X			FTG-VERT.B.F.-SECT.E-WALLS 10,11
W544	X	54	5-3	X			FTG-VERT.F.F.-SECT.E-WALLS 10,11
W545	X	27	6-2	X		⊗	FTG/WALL-VERT.B.F.-SECT.A-WALL 1
W446	X	18	6-1	X		⊗	FTG/WALL-VERT.F.F.-SECT.A-WALL 1
W747	X	18	6-9			⊗	WALL-VERT.B.F.-SECT.B-WALL 2
W448	X	23	6-9			⊗	WALL-VERT.F.F.-SECT.B-WALL 2
W749	X	18	8-9			⊗	WALL-VERT.B.F.-SECT.B-WALL 3
W450	X	23	8-9			⊗	WALL-VERT.F.F.-SECT.B-WALL 3
W751	X	22	11-0			⊗	WALL-VERT.B.F.-SECT.B-WALL 4
W452	X	29	11-0			⊗	WALL-VERT.F.F.-SECT.B-WALL 4
W753	X	15	12-7			⊗	WALL-VERT.B.F.-SECT.B-WALL 5
W454	X	20	12-7			⊗	WALL-VERT.F.F.-SECT.B-WALL 5
W855	X	21	13-9			⊗	WALL-VERT.B.F.-SECT.C-WALL 6
W556	X	27	13-9			⊗	WALL-VERT.F.F.-SECT.C-WALL 6
W857	X	21	16-1			⊗	WALL-VERT.B.F.-SECT.C-WALL 7
W558	X	27	16-1			⊗	WALL-VERT.F.F.-SECT.C-WALL 7
W859	X	21	15-8			⊗	WALL-VERT.B.F.-SECT.D-WALL 8
W560	X	27	15-8			⊗	WALL-VERT.F.F.-SECT.D-WALL 8
W861	X	21	18-1			⊗	WALL-VERT.B.F.-SECT.D-WALL 9
W562	X	27	18-1			⊗	WALL-VERT.F.F.-SECT.D-WALL 9
W963	X	19	17-5			⊗	WALL-VERT.B.F.-SECT.E-WALL 10

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

⊗ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED	BAR SERIES	36,160" COATED 52,110" UNCOATED LOCATION
W564	X	27	17-5			⊗	WALL-VERT.F.F.-SECT.E-WALL 10
W965	X	19	19-9			⊗	WALL-VERT.B.F.-SECT.E-WALL 11
W566	X	27	19-9			⊗	WALL-VERT.F.F.-SECT.E-WALL 11
W867	X	21	19-1			⊗	WALL-VERT.B.F.-SECT.D-WALL 12
W568	X	27	19-1			⊗	WALL-VERT.F.F.-SECT.D-WALL 12
W869	X	20	19-5			⊗	WALL-VERT.B.F.-SECT.D-WALL 13
W570	X	26	19-5			⊗	WALL-VERT.F.F.-SECT.D-WALL 13
W871	X	20	16-2			⊗	WALL-VERT.B.F.-SECT.C-WALL 14
W572	X	26	16-2			⊗	WALL-VERT.F.F.-SECT.C-WALL 14
W873	X	20	15-2			⊗	WALL-VERT.B.F.-SECT.C-WALL 15
W574	X	26	15-2			⊗	WALL-VERT.F.F.-SECT.C-WALL 15
W875	X	20	14-0			⊗	WALL-VERT.B.F.-SECT.C-WALL 16
W576	X	26	14-0			⊗	WALL-VERT.F.F.-SECT.C-WALL 16
W477	X	4	23-2				WALL-LONG.E.F.-SECT.A-WALL 1
W478	X	2	22-11				WALL-LONG.E.F.-SECT.A-WALL 1
W479	X	2	19-8				WALL-LONG.E.F.-SECT.A-WALL 1
W480	X	2	13-2				WALL-LONG.E.F.-SECT.A-WALL 1
W481	X	2	23-6				WALL-LONG.E.F.-SECT.A-WALL 1
W482	X	14	23-2				WALL-LONG.E.F.-SECT.B-WALL 2
W483	X	2	10-4				WALL-LONG.E.F.-SECT.B-WALL 2
W484	X	2	23-3				WALL-LONG.E.F.-SECT.B-WALL 2
W485	X	20	23-2				WALL-LONG.E.F.-SECT.B-WALL 3
W486	X	2	13-3				WALL-LONG.E.F.-SECT.B-WALL 3
W487	X	2	23-3				WALL-LONG.E.F.-SECT.B-WALL 3
W488	X	24	28-7				WALL-LONG.E.F.-SECT.B-WALL 4
W489	X	2	22-6				WALL-LONG.E.F.-SECT.B-WALL 4
W490	X	2	12-9				WALL-LONG.E.F.-SECT.B-WALL 4
W491	X	2	28-9				WALL-LONG.E.F.-SECT.B-WALL 4
W492	X	28	19-7				WALL-LONG.E.F.-SECT.B-WALL 5
W493	X	2	16-8				WALL-LONG.E.F.-SECT.B-WALL 5
W494	X	2	19-8				WALL-LONG.E.F.-SECT.B-WALL 5
W595	X	30	27-5				WALL-LONG.E.F.-SECT.C-WALL 6
W596	X	2	25-3				WALL-LONG.E.F.-SECT.C-WALL 6
W597	X	2	15-3				WALL-LONG.E.F.-SECT.C-WALL 6
W598	X	2	27-6				WALL-LONG.E.F.-SECT.C-WALL 6
W599	X	36	27-5				WALL-LONG.E.F.-SECT.C-WALL 7
W5100	X	2	24-8				WALL-LONG.E.F.-SECT.C-WALL 7
W5101	X	2	14-10				WALL-LONG.E.F.-SECT.C-WALL 7
W5102	X	2	27-6				WALL-LONG.E.F.-SECT.C-WALL 7
W5103	X	36	27-5				WALL-LONG.E.F.-SECT.D-WALL 8
W5104	X	2	18-3				WALL-LONG.E.F.-SECT.D-WALL 8
W5105	X	2	27-6				WALL-LONG.E.F.-SECT.D-WALL 8
W5106	X	40	27-5				WALL-LONG.E.F.-SECT.D-WALL 9
W5107	X	2	26-5				WALL-LONG.E.F.-SECT.D-WALL 9
W5108	X	2	16-7				WALL-LONG.E.F.-SECT.D-WALL 9
W5109	X	2	27-6				WALL-LONG.E.F.-SECT.D-WALL 9
W5110	X	44	27-5				WALL-LONG.E.F.-SECT.E-WALL 10
W5111	X	2	20-11				WALL-LONG.E.F.-SECT.E-WALL 10
W5112	X	2	12-0				WALL-LONG.E.F.-SECT.E-WALL 10
W5113	X	2	27-6				WALL-LONG.E.F.-SECT.E-WALL 10
W5114	X	50	27-5				WALL-LONG.E.F.-SECT.E-WALL 11
W5115	X	2	21-10				WALL-LONG.E.F.-SECT.E-WALL 11
W5116	X	2	13-0				WALL-LONG.E.F.-SECT.E-WALL 11
W5117	X	2	27-6				WALL-LONG.E.F.-SECT.E-WALL 11
W5118	X	44	27-5				WALL-LONG.E.F.-SECT.D-WALL 12
W5119	X	2	24-10				WALL-LONG.E.F.-SECT.D-WALL 12
W5120	X	2	27-6				WALL-LONG.E.F.-SECT.D-WALL 12
W5121	X	48	26-4				WALL-LONG.E.F.-SECT.D-WALL 13
W5122	X	38	26-4				WALL-LONG.E.F.-SECT.D-WALL 14
W5123	X	38	26-4				WALL-LONG.E.F.-SECT.D-WALL 15
W5124	X	32	26-4				WALL-LONG.E.F.-SECT.D-WALL 16
W5125	X	2	21-4				WALL-LONG.E.F.-SECT.D-WALL 16
W5126	X	2	26-5				WALL-LONG.E.F.-SECT.D-WALL 16
W5127	X	411	2-9	X			WALL-TOP STIRRUP-WALLS 1 THRU 16

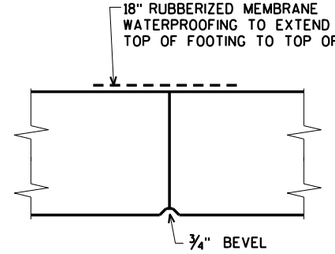
BAR SERIES TABLE

BAR NO.	NO. REQ'D.	LENGTH
W535	1 SERIES OF 8	3'-9" TO 5'-5"
W436	1 SERIES OF 6	3'-8" TO 5'-4"
W545	1 SERIES OF 27	5'-5" TO 6'-11"
W446	1 SERIES OF 18	5'-4" TO 6'-10"
W747	1 SERIES OF 18	5'-9" TO 7'-9"
W448	1 SERIES OF 23	5'-9" TO 7'-9"
W749	1 SERIES OF 18	7'-9" TO 9'-9"
W450	1 SERIES OF 23	7'-9" TO 9'-9"
W751	1 SERIES OF 22	9'-9" TO 12'-3"
W452	1 SERIES OF 29	9'-9" TO 12'-3"
W753	1 SERIES OF 15	11'-9" TO 13'-5"
W454	1 SERIES OF 20	11'-9" TO 13'-5"
W855	1 SERIES OF 21	12'-7" TO 14'-11"
W556	1 SERIES OF 27	12'-7" TO 14'-11"
W857	1 SERIES OF 21	14'-11" TO 17'-3"
W558	1 SERIES OF 27	14'-11" TO 17'-3"
W859	1 SERIES OF 21	14'-6" TO 16'-10"
W560	1 SERIES OF 27	14'-6" TO 16'-10"
W861	1 SERIES OF 21	16'-11" TO 19'-3"
W562	1 SERIES OF 27	16'-11" TO 19'-3"
W963	1 SERIES OF 19	16'-3" TO 18'-7"
W564	1 SERIES OF 27	16'-3" TO 18'-7"
W965	1 SERIES OF 19	18'-7" TO 20'-11"
W566	1 SERIES OF 27	18'-7" TO 20'-11"
W867	1 SERIES OF 21	18'-5" TO 19'-9"
W568	1 SERIES OF 27	18'-5" TO 19'-9"
W869	1 SERIES OF 20	19'-1" TO 19'-9"
W570	1 SERIES OF 26	19'-1" TO 19'-9"
W871	1 SERIES OF 20	15'-9" TO 16'-7"
W572	1 SERIES OF 26	15'-9" TO 16'-7"
W873	1 SERIES OF 20	14'-7" TO 15'-9"
W574	1 SERIES OF 26	14'-7" TO 15'-9"
W875	1 SERIES OF 20	13'-5" TO 14'-7"
W576	1 SERIES OF 26	13'-5" TO 14'-7"

BUNDLE AND TAG EACH SERIES SEPARATELY.

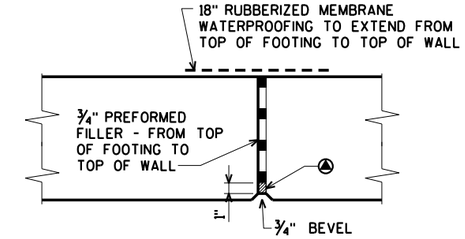
STATE PROJECT NUMBER

5992-09-31



VERTICAL CONTRACTION JOINT DETAIL

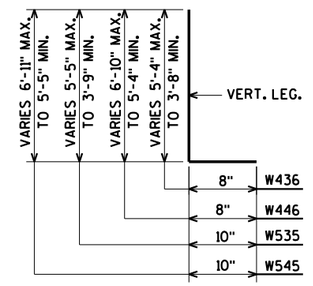
DO NOT RUN ANY BAR STEEL THRU JOINT

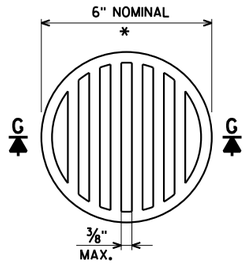


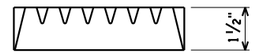
VERTICAL EXPANSION JOINT DETAIL

DO NOT RUN ANY BAR STEEL THRU JOINT

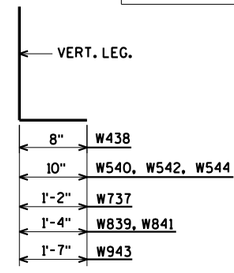








SECTION G-G



* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SCREEN TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH SHEET METAL SCREWS.

RODENT SHIELD DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-310

DRAWN BY JWZ/CKJ | PLANS CK'D. AEB

BILL OF BARS & DETAILS

SHEET 12 OF 13
598

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

ecpdf.plt
420976 R-13-310 sa.dgn

8

8

8/31/2016

black.tbl

STATE PROJECT NUMBER

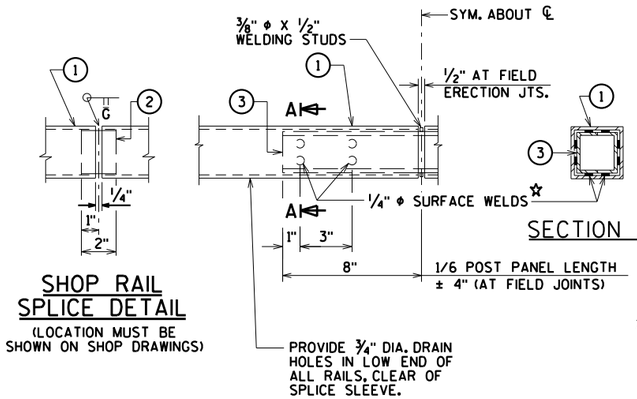
5992-09-31

LEGEND

(1) STRUCTURAL TUBING 1½" X 1½" X 3/16" OR 3" X 3" X 3/16" RAILS. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION AND EXPANSION JOINTS.

(2) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".

(3) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4" ± FIELD ERECTION)



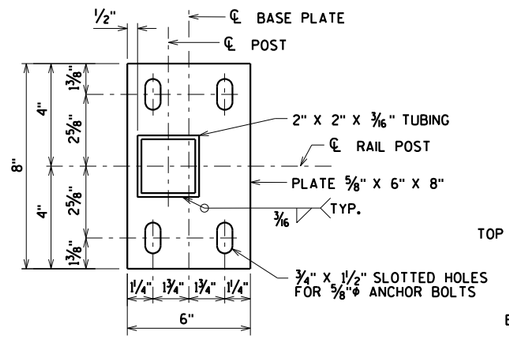
SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)

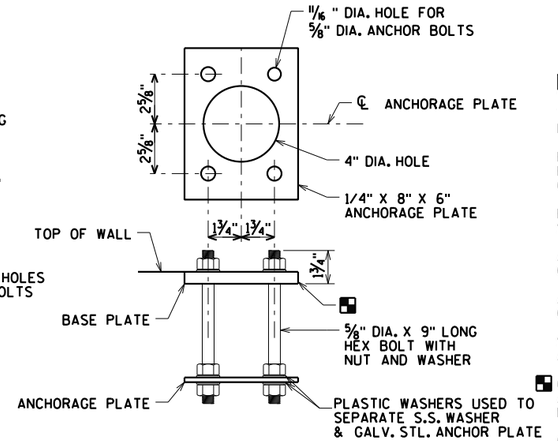
SECTION A-A

FIELD ERECTION JOINT DETAIL

☆ MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



TYPICAL RAIL POST BASE PLATE



ANCHORAGE DETAIL

NOTES

THE BID ITEM SHALL BE "RAILING STEEL PEDESTRIAN, R-13-310" WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT, AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

RAILS AND POSTS TO BE A.S.T.M. A500, GRADE B. BASE PLATES, RECTANGULAR SLEEVES, AND SHIMS TO BE A.S.T.M. A709, GRADE 36.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET POSTS VERTICAL.

ALL POST SPACING IS TAKEN HORIZ. ALONG CENTER LINE OF RAILING AT BASE OF POST.

SHIMS SHALL BE USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT AND SHALL BE GALVANIZED.

■ CAULK AROUND PERIMETER OF BASE PLATES, FILL PORTION OF SLOTTED HOLES AROUND ANCHOR BOLTS IN BASE PLATE, AND SHIM WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

CUT BOTTOM OF POST TO MAKE VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE EITHER STAINLESS STEEL OR 5/8"-DIA. X 9"-LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE - 4 EQUIV. STAINLESS STEEL CONCRETE ADHESIVE ANCHORS, 5/8"-DIA., EMBED A MINIMUM OF 7".)

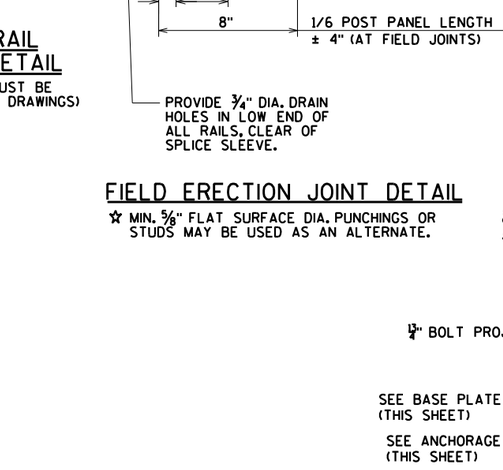
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE NOT MORE THAN 3 OR 4 POSTS.

ALL MATERIALS, EXCEPT ANCHOR BOLTS, SHALL BE GALVANIZED AFTER FABRICATION, PRIOR TO GALVANIZING. THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS.

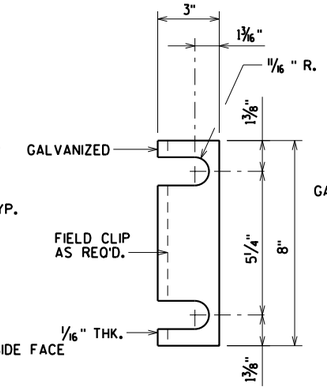
PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE COLOR SHALL DUPLICATE SHERWIN WILLIAMS "KENDAL GREEN" (SW6467).

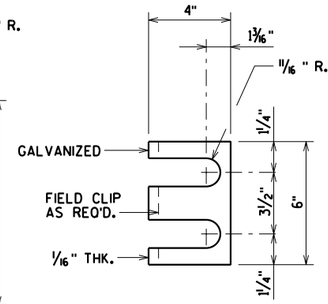
VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

TOUCH UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



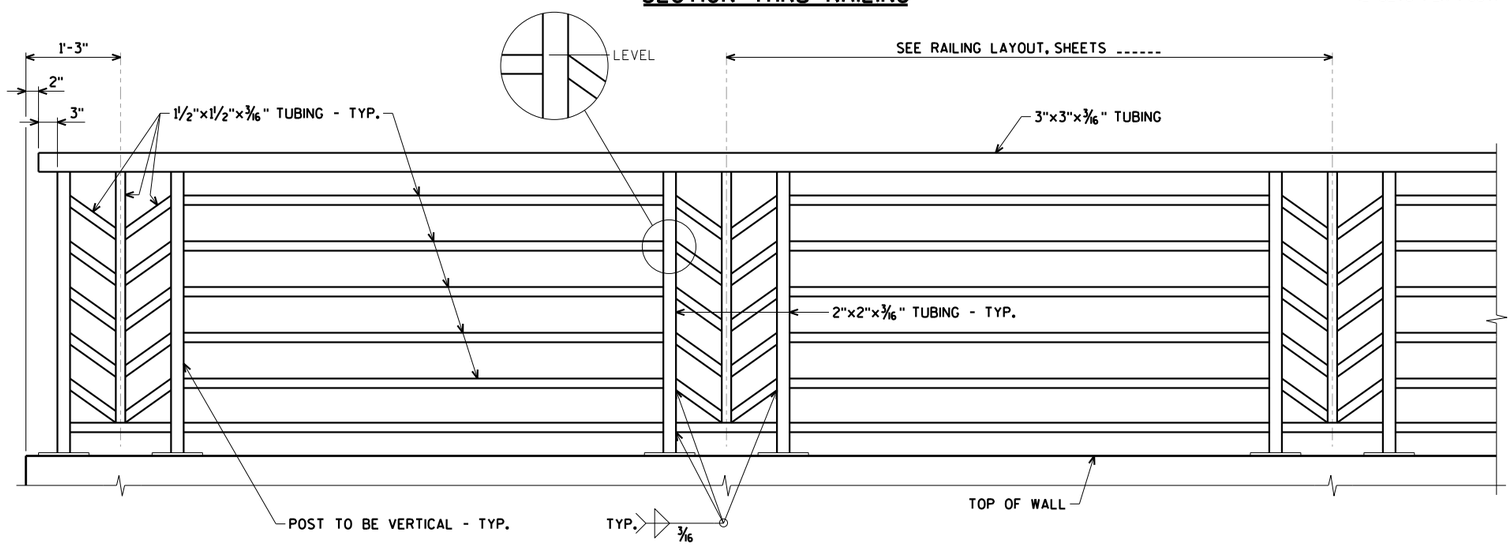
SECTION THRU RAILING

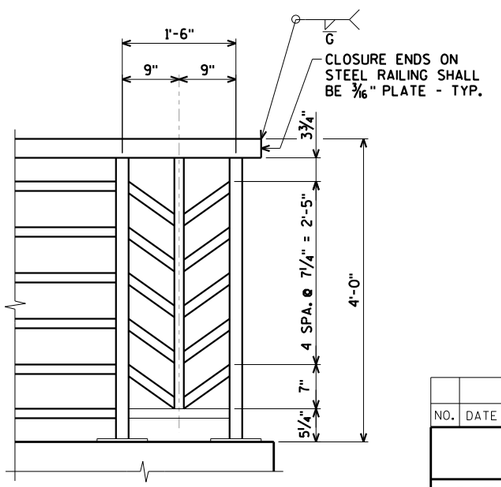




RAIL POST SHIM DETAIL

(2 SETS PER POST)





ELEVATION OF RAILING

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-310

DRAWN BY JWZ/CKJ | PLANS CK'D. AEB

RAILING DETAIL

SHEET 13 OF 13

599

ORIGINAL PLANS PREPARED BY

AYRES ASSOCIATES

3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

ecpdf.plt
420976 R-13-310 rail.dgn

10/18/2016

black.tbl

8

8

NOTES:

1-CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2-SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3-FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME OR SELECT FILL
4-EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH CUT OR BORROW
5-REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
6-REDUCED EBS IN FILL	REDUCED EBS EXCAVATION THAT CAN BE USED IN FILL
7-MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH CUT OR BORROW: CUT-(FILL -EXPANDED ROCK)*FILL FACTOR
8-SELECT FILL	AREA UNDER INSIDE 1:1'S EXTENDED DOWN FROM SUBGRADE SHOULDER POINTS

9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	EARTHWORK DATA SHEETS	SHEET 600	E

DIVISION 1 (STA 107+30'WB' - STA 116+48'WB'): CTH PD (STAGE 1)

STATION	Distance	Area: Cut (SF)	Area: Salvaged/Unusable Pavement Material (SF)	Area: Fill (SF)	Area: Marsh Exc (SF)	Area: Rock Exc (SF)	Area: EBS (SF)	Incremental Volume (Unadjusted): Cut Note 1 (CY)	Incremental Volume (Unadjusted): Salvaged/Unusable Pavement Material Note 2 (CY)	Incremental Volume (Unadjusted): Fill Note 3 (CY)	Incremental Volume (Unadjusted): Marsh Exc (CY)	Incremental Volume (Unadjusted): Rock Exc (CY)	Incremental Volume (Unadjusted): EBS (CY)	Cumulative Vol (CY): Cut 1.00 Note 1	Cumulative Vol (CY): Expanded Fill 1.25	Cumulative Vol (CY): Expanded Marsh Backfill 1.50 Note 4	Cumulative Vol (CY): Reduced Marsh in Fill 0.60 Note 5	Cumulative Vol (CY): Expanded Rock Backfill 1.1	Cumulative Vol (CY): Reduced EBS In Fill 0.80 Note 6	Mass Ordinate Note 7
107+30		1	3	3	0	0	0													
107+50	20	16	3	10	0	0	1	6	2	5	0	0	0	6	5	0	0	0	0	-1
108+00	50	26	3	27	0	0	1	39	5	34	0	0	2	45	46	0	0	0	2	-8
108+50	50	30	3	41	0	0	2	52	5	63	0	0	3	97	123	0	0	0	4	-37
109+00	50	25	3	39	0	0	1	51	5	74	0	0	3	148	212	0	0	0	6	-80
109+50	50	23	3	32	0	0	1	44	5	66	0	0	2	192	292	0	0	0	8	-121
110+00	50	27	3	27	0	0	1	46	5	55	0	0	2	238	358	0	0	0	10	-146
110+50	50	27	3	36	0	0	1	50	5	58	0	0	3	289	428	0	0	0	12	-170
111+00	50	26	0	101	0	0	1	50	2	127	0	0	2	338	584	0	0	0	14	-279
111+50	50	6	0	296	0	0	0	30	0	368	0	0	2	369	1,043	0	0	0	15	-707
112+00	50	6	0	263	0	0	0	12	0	518	0	0	1	380	1,690	0	0	0	15	-1,343
112+50	50	6	0	270	0	0	0	11	0	494	0	0	1	391	2,307	0	0	0	16	-1,949
113+00	50	6	0	273	0	0	0	10	0	503	0	0	1	402	2,935	0	0	0	16	-2,567
113+50	50	5	0	286	0	0	0	10	0	518	0	0	1	412	3,582	0	0	0	16	-3,204
114+00	50	6	0	259	0	0	0	10	0	505	0	0	1	422	4,213	0	0	0	17	-3,824
114+50	50	6	0	243	0	0	0	10	0	465	0	0	1	433	4,794	0	0	0	17	-4,394
115+00	50	5	0	240	0	0	0	10	0	447	0	0	1	443	5,352	0	0	0	18	-4,943
115+50	50	5	0	243	0	0	0	10	0	448	0	0	0	452	5,912	0	0	0	18	-5,493
116+00	50	4	0	180	0	0	0	9	0	392	0	0	0	461	6,402	0	0	0	18	-5,974
116+48	48	0	0	2	0	0	0	4	0	161	0	0	0	465	6,604	0	0	0	19	-6,172
								465	33	5,301	0	0	23							

DIVISION 1 (STA 143+07'WB' - STA 146+11'WB'): CTH PD (STAGE 1)

STATION	Distance	Area: Cut (SF)	Area: Salvaged/Unusable Pavement Material (SF)	Area: Fill (SF)	Area: Marsh Exc (SF)	Area: Rock Exc (SF)	Area: EBS (SF)	Incremental Volume (Unadjusted): Cut Note 1 (CY)	Incremental Volume (Unadjusted): Salvaged/Unusable Pavement Material Note 2 (CY)	Incremental Volume (Unadjusted): Fill Note 3 (CY)	Incremental Volume (Unadjusted): Marsh Exc (CY)	Incremental Volume (Unadjusted): Rock Exc (CY)	Incremental Volume (Unadjusted): EBS (CY)	Cumulative Vol (CY): Cut 1.00 Note 1	Cumulative Vol (CY): Expanded Fill 1.25	Cumulative Vol (CY): Expanded Marsh Backfill 1.50 Note 4	Cumulative Vol (CY): Reduced Marsh in Fill 0.60 Note 5	Cumulative Vol (CY): Expanded Rock Backfill 1.1	Cumulative Vol (CY): Reduced EBS In Fill 0.80 Note 6	Mass Ordinate Note 7
143+07		0	0	0	0	0	0													
143+50	43	9	0	0	0	0	0	7	0	0	0	0	0	7	0	0	0	0	0	8
144+00	50	15	0	0	0	0	1	23	0	0	0	0	1	30	-2	0	0	0	1	32
144+50	50	11	0	1	0	0	1	24	0	1	0	0	1	54	-1	0	0	0	2	56
145+00	50	8	0	3	0	0	0	18	0	4	0	0	1	73	3	0	0	0	3	70
145+50	50	5	0	1	0	0	0	13	0	4	0	0	1	85	7	0	0	0	3	78
146+00	50	1	0	0	0	0	0	6	0	1	0	0	0	91	8	0	0	0	4	83
146+11	11	0	0	0	0	0	0	0	0	0	0	0	0	91	8	0	0	0	4	83
								91	0	10	0	0	5							

DIVISION 1 (STA 10+77'A' - STA 12+59'A'): 'A' LINE (STAGE 1)

STATION	Distance	Area: Cut (SF)	Area: Salvaged/Unusable Pavement Material (SF)	Area: Fill (SF)	Area: Marsh Exc (SF)	Area: Rock Exc (SF)	Area: EBS (SF)	Incremental Volume (Unadjusted): Cut Note 1 (CY)	Incremental Volume (Unadjusted): Salvaged/Unusable Pavement Material Note 2 (CY)	Incremental Volume (Unadjusted): Fill Note 3 (CY)	Incremental Volume (Unadjusted): Marsh Exc (CY)	Incremental Volume (Unadjusted): Rock Exc (CY)	Incremental Volume (Unadjusted): EBS (CY)	Cumulative Vol (CY): Cut 1.00 Note 1	Cumulative Vol (CY): Expanded Fill 1.25	Cumulative Vol (CY): Expanded Marsh Backfill 1.50 Note 4	Cumulative Vol (CY): Reduced Marsh in Fill 0.60 Note 5	Cumulative Vol (CY): Expanded Rock Backfill 1.1	Cumulative Vol (CY): Reduced EBS In Fill 0.80 Note 6	Mass Ordinate Note 7
10+77		8	0	0	0	0	0													
11+00	23	6	0	0	0	0	0	6	0	0	0	0	0	6	0	0	0	0	0	7
11+50	50	37	0	0	0	0	2	40	0	0	0	0	2	47	-2	0	0	0	2	49
12+00	50	75	0	0	0	0	4	104	0	0	0	0	5	151	-8	0	0	0	6	159
12+50	50	54	0	0	0	0	3	120	0	0	0	0	6	271	-14	0	0	0	11	285
12+59	9	51	0	0	0	0	3	18	0	0	0	0	1	289	-14	0	0	0	12	303
								289	0	0	0	0	14							

DIVISION 1 (STA 117+94'WB' - STA 142+18'WB'): CTH PD (STAGE 1)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
								Note 1	Note 2	Note 3				1.00	1.25	1.50	0.60	1.1	0.80	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	Note 1		Note 4	Note 5		Note 6	Note 7
117+94		0	0	0	0	0	0													
118+00	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
118+50	50	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1
119+00	50	1	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	3
119+50	50	2	0	0	0	0	0	3	0	0	0	0	0	5	0	0	0	0	0	5
120+00	50	3	0	0	0	0	0	4	0	0	0	0	0	9	0	0	0	0	0	9
120+50	50	3	0	0	0	0	0	5	0	0	0	0	0	14	0	0	0	0	1	14
121+00	50	3	0	1	0	0	0	5	0	1	0	0	0	20	1	0	0	0	1	18
121+50	50	4	0	1	0	0	0	6	0	2	0	0	0	26	3	0	0	0	1	23
122+00	50	4	0	0	0	0	0	7	0	1	0	0	0	33	4	0	0	0	1	29
122+50	50	5	0	0	0	0	0	8	0	1	0	0	0	42	5	0	0	0	2	37
123+00	50	6	0	0	0	0	0	10	0	1	0	0	0	51	5	0	0	0	2	46
123+50	50	6	0	0	0	0	0	11	0	1	0	0	1	62	5	0	0	0	2	57
124+00	50	6	0	1	0	0	0	11	0	1	0	0	1	73	6	0	0	0	3	67
124+50	50	6	0	2	0	0	0	12	0	2	0	0	1	85	8	0	0	0	3	78
125+00	50	6	0	4	0	0	0	12	0	5	0	0	1	97	14	0	0	0	4	83
125+50	50	6	0	6	0	0	0	11	0	9	0	0	1	108	25	0	0	0	4	84
126+00	50	6	0	4	0	0	0	12	0	9	0	0	1	120	36	0	0	0	5	84
126+50	50	9	0	0	0	0	0	14	0	4	0	0	1	134	40	0	0	0	5	94
127+00	50	8	0	1	0	0	0	15	0	1	0	0	1	149	41	0	0	0	6	108
127+50	50	8	0	1	0	0	0	14	0	2	0	0	1	163	43	0	0	0	7	120
128+00	50	8	0	2	0	0	0	15	0	3	0	0	1	178	47	0	0	0	7	131
128+50	50	10	0	5	0	0	0	17	0	7	0	0	1	195	54	0	0	0	8	140
129+00	50	12	0	3	0	0	1	20	0	8	0	0	1	215	63	0	0	0	9	152
129+50	50	13	0	3	0	0	1	23	0	6	0	0	1	238	69	0	0	0	10	169
130+00	50	25	0	0	0	0	1	35	0	3	0	0	2	273	71	0	0	0	11	202
130+50	50	36	0	0	0	0	2	56	0	0	0	0	3	329	68	0	0	0	13	261
131+00	50	67	1	0	0	0	3	95	1	0	0	0	5	424	63	0	0	0	17	360
131+50	50	73	1	0	0	0	4	129	2	0	0	0	6	554	57	0	0	0	22	493
132+00	50	55	1	0	0	0	3	118	2	0	0	0	6	672	51	0	0	0	27	615
132+50	50	45	1	0	0	0	2	93	2	0	0	0	5	764	46	0	0	0	31	709
133+00	50	55	1	0	0	0	3	93	2	0	0	0	5	857	42	0	0	0	34	805
133+50	50	81	1	0	0	0	4	126	2	0	0	0	6	984	35	0	0	0	39	935
134+00	50	35	1	0	0	0	2	108	2	0	0	0	5	1,092	30	0	0	0	44	1,046
134+50	50	42	4	0	0	0	2	71	5	0	0	0	4	1,163	27	0	0	0	47	1,116
135+00	50	32	4	0	0	0	2	68	7	0	0	0	3	1,231	23	0	0	0	49	1,180
135+50	50	25	4	0	0	0	1	53	7	0	0	0	3	1,284	20	0	0	0	51	1,229
136+00	50	21	4	0	0	0	1	43	7	0	0	0	2	1,327	18	0	0	0	53	1,267
136+50	50	22	3	0	0	0	1	40	6	0	0	0	2	1,367	16	0	0	0	55	1,303
137+00	50	23	3	0	0	0	1	42	5	0	0	0	2	1,409	14	0	0	0	56	1,342
137+50	50	24	3	0	0	0	1	44	5	0	0	0	2	1,453	12	0	0	0	58	1,383
138+00	50	24	3	0	0	0	1	45	5	0	0	0	2	1,498	10	0	0	0	60	1,425
138+50	50	24	3	0	0	0	1	45	5	0	0	0	2	1,543	8	0	0	0	62	1,468
139+00	50	23	3	0	0	0	1	44	5	0	0	0	2	1,587	5	0	0	0	63	1,509
139+50	50	23	3	0	0	0	1	43	5	0	0	0	2	1,629	3	0	0	0	65	1,549
140+00	50	22	3	0	0	0	1	41	5	0	0	0	2	1,671	1	0	0	0	67	1,588
140+50	50	22	3	0	0	0	1	40	5	0	0	0	2	1,711	-1	0	0	0	68	1,626
141+00	50	21	3	0	0	0	1	39	5	0	0	0	2	1,751	-3	0	0	0	70	1,662
141+50	50	20	3	0	0	0	1	38	5	0	0	0	2	1,789	-5	0	0	0	72	1,697
142+00	50	19	3	0	0	0	1	36	5	0	0	0	2	1,825	-7	0	0	0	73	1,731
142+18	18	2	3	0	0	0	0	7	2	0	0	0	0	1,832	-7	0	0	0	73	1,737
								1,832	103	68	0	0	92							

DIVISION 1 (STA 177+24'WB' - STA 180+92'WB'): CTH PD (STAGE 1)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	(CY)	(CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
177+24		0	3	0	0	0	0													
177+50	26	15	3	0	0	0	1	7	3	0	0	0	0	7	0	0	0	0	0	5
178+00	50	27	3	0	0	0	1	39	5	0	0	0	2	46	-2	0	0	0	2	41
178+50	50	34	3	0	0	0	2	57	5	0	0	0	3	104	-5	0	0	0	4	97
179+00	50	38	3	0	0	0	2	67	5	0	0	0	3	171	-9	0	0	0	7	162
179+50	50	19	3	0	0	0	1	53	5	0	0	0	3	224	-11	0	0	0	9	213
180+00	50	12	3	0	0	0	1	29	5	0	0	0	1	252	-13	0	0	0	10	238
180+50	50	6	3	0	0	0	0	16	5	0	0	0	1	269	-13	0	0	0	11	251
180+91	41	3	3	0	0	0	0	6	4	0	0	0	0	275	-14	0	0	0	11	254
								275	35	0	0	0	14							

DIVISION 1 (STA 22+98'HP' - STA 24+54'HP'): SOUTH HIGH POINT ROAD (STAGE 1)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	(CY)	(CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
22+98		5	3	0	0	0	0													
23+00	2	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23+50	50	18	3	0	0	0	1	21	5	0	0	0	1	22	-1	0	0	0	1	18
24+00	50	18	3	0	0	0	1	33	5	0	0	0	2	54	-3	0	0	0	2	47
24+50	50	20	3	0	0	0	1	35	5	0	0	0	2	89	-4	0	0	0	4	79
24+54	4	20	3	0	0	0	1	3	0	0	0	0	0	92	-5	0	0	0	4	81
								92	15	0	0	0	5							

DIVISION 1 (STA 50+49'IE' - STA 55+25'IE'): ICE AGE TRAIL ENTRANCE (STAGE 1)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	(CY)	(CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
50+49		52	0	0	0	0	3													
50+50	1	50	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	0	0	2
51+00	50	20	0	0	0	0	1	65	0	0	0	0	0	67	0	0	0	0	0	67
51+50	50	45	0	0	0	0	2	61	0	0	0	0	0	127	0	0	0	0	0	127
52+00	50	47	0	0	0	0	2	85	0	0	0	0	0	213	0	0	0	0	0	213
52+50	50	54	0	0	0	0	3	93	0	0	0	0	0	306	0	0	0	0	0	306
53+00	50	49	0	0	0	0	2	95	0	0	0	0	0	401	0	0	0	0	0	401
53+50	50	38	0	0	0	0	2	81	0	0	0	0	0	482	0	0	0	0	0	482
54+00	50	33	0	0	0	0	2	66	0	0	0	0	0	548	0	0	0	0	0	548
54+50	50	139	0	0	0	0	7	159	0	0	0	0	0	707	0	0	0	0	0	707
55+00	50	201	0	0	0	0	10	315	0	0	0	0	0	1,022	0	0	0	0	0	1,022
55+25	25	187	0	0	0	0	9	182	0	0	0	0	0	1,204	0	0	0	0	0	1,204
								1,204	0	0	0	0	0							

DIVISION 2 (STA 110+83'WB' - STA 180+91'WB'): CTH PD (STAGE 2)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	(CY)	(CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
110+83		25	0	0	0	0	1													
111+00	17	41	0	0	0	0	2	21	0	0	0	0	1	21	-1	0	0	0	1	22
111+50	50	106	1	0	0	0	5	136	1	0	0	0	7	157	-8	0	0	0	6	164
112+00	50	103	1	39	0	0	5	194	2	36	0	0	10	351	28	0	0	0	14	319
112+50	50	115	1	31	0	0	6	202	2	65	0	0	10	553	100	0	0	0	22	447
113+00	50	119	1	44	0	0	6	216	2	69	0	0	11	769	176	0	0	0	31	585
113+50	50	112	1	76	0	0	6	214	2	111	0	0	11	984	304	0	0	0	39	669
114+00	50	80	0	109	0	0	4	178	1	172	0	0	9	1,162	509	0	0	0	46	641
114+50	50	82	0	136	0	0	4	150	0	227	0	0	7	1,312	786	0	0	0	52	514
115+00	50	84	0	163	0	0	4	154	0	277	0	0	8	1,466	1,124	0	0	0	59	330
115+50	50	93	0	179	0	0	5	164	0	316	0	0	8	1,629	1,511	0	0	0	65	106
116+00	50	106	0	157	0	0	5	184	0	311	0	0	9	1,813	1,890	0	0	0	73	-89
116+50	50	124	0	128	0	0	6	213	0	263	0	0	11	2,026	2,208	0	0	0	81	-195
117+00	50	149	0	62	0	0	7	252	0	176	0	0	13	2,278	2,415	0	0	0	91	-149
117+50	50	183	0	5	0	0	9	307	0	62	0	0	15	2,585	2,478	0	0	0	103	95
118+00	50	271	0	0	0	23	14	420	0	5	0	21	21	3,005	2,462	0	0	23	120	560
118+50	50	226	0	0	0	154	11	460	0	0	0	164	23	3,465	2,439	0	0	203	139	1,268
119+00	50	312	0	0	0	172	16	498	0	0	0	302	25	3,963	2,415	0	0	535	159	2,206
119+50	50	278	0	0	0	296	14	546	0	0	0	433	27	4,509	2,387	0	0	1,012	180	3,375
120+00	50	97	0	0	0	495	5	347	0	0	0	732	17	4,857	2,370	0	0	1,817	194	4,746
120+50	50	62	0	0	0	429	3	147	0	0	0	856	7	5,003	2,363	0	0	2,759	200	6,077
121+00	50	52	0	0	0	437	3	105	0	0	0	802	5	5,108	2,357	0	0	3,641	204	7,290
121+50	50	51	0	0	0	525	3	95	0	0	0	891	5	5,203	2,353	0	0	4,621	208	8,614
122+00	50	80	0	0	0	608	4	121	0	0	0	1,050	6	5,324	2,346	0	0	5,775	213	10,185
122+50	50	166	0	0	0	666	8	228	0	0	0	1,180	11	5,552	2,335	0	0	7,074	222	12,048
123+00	50	152	0	0	0	782	8	294	0	0	0	1,341	15	5,847	2,320	0	0	8,549	234	14,201
123+50	50	94	0	0	0	829	5	228	0	0	0	1,492	11	6,074	2,309	0	0	10,190	243	16,491
124+00	50	217	0	0	0	667	11	288	0	0	0	1,385	14	6,363	2,295	0	0	11,714	255	18,698
124+50	50	261	0	0	0	575	13	442	0	0	0	1,149	22	6,805	2,272	0	0	12,978	272	20,743
125+00	50	352	0	0	0	511	18	567	0	0	0	1,005	28	7,372	2,244	0	0	14,084	295	22,721
125+50	50	475	0	0	0	455	24	766	0	0	0	894	38	8,138	2,206	0	0	15,067	326	24,754
126+00	50	589	0	0	0	218	29	985	0	0	0	623	49	9,123	2,157	0	0	15,753	365	26,646
126+50	50	511	0	0	0	203	26	1,019	0	0	0	390	51	10,142	2,106	0	0	16,181	406	28,251
127+00	50	332	0	0	0	289	17	781	0	0	0	455	39	10,923	2,067	0	0	16,682	437	29,697
127+50	50	275	0	0	0	270	14	562	0	0	0	518	28	11,485	2,038	0	0	17,252	459	30,999
128+00	50	194	0	0	0	278	10	435	0	0	0	508	22	11,919	2,017	0	0	17,810	477	32,154
128+50	50	373	0	0	0	0	19	526	0	0	0	257	26	12,445	1,990	0	0	18,093	498	33,059
129+00	50	307	0	0	0	0	15	630	0	0	0	0	31	13,075	1,959	0	0	18,093	523	33,721
129+50	50	229	0	0	0	0	11	497	0	0	0	0	25	13,572	1,934	0	0	18,093	543	34,242
130+00	50	208	0	1	0	0	10	404	0	1	0	0	20	13,976	1,915	0	0	18,093	559	34,666
130+50	50	213	0	2	0	0	11	389	0	3	0	0	19	14,365	1,899	0	0	18,093	575	35,071
131+00	50	208	0	3	0	0	10	390	0	4	0	0	19	14,755	1,885	0	0	18,093	590	35,475
131+50	50	195	0	5	0	0	10	373	0	7	0	0	19	15,128	1,875	0	0	18,093	605	35,858
132+00	50	201	1	9	0	0	10	367	1	13	0	0	18	15,495	1,872	0	0	18,093	620	36,226
132+50	50	186	1	28	0	0	9	358	2	34	0	0	18	15,853	1,897	0	0	18,093	634	36,557
133+00	50	140	1	0	0	0	7	302	2	26	0	0	15	16,155	1,915	0	0	18,093	646	36,839
133+50	50	140	0	0	0	0	7	259	1	0	0	0	13	16,414	1,902	0	0	18,093	657	37,110
134+00	50	118	1	0	0	0	6	238	1	0	0	0	12	16,652	1,890	0	0	18,093	666	37,359
134+50	50	131	1	0	0	0	7	231	2	0	0	0	12	16,883	1,878	0	0	18,093	675	37,598
135+00	50	116	1	0	0	0	6	229	2	0	0	0	11	17,112	1,867	0	0	18,093	684	37,836
135+50	50	93	0	0	0	0	5	194	1	0	0	0	10	17,305	1,857	0	0	18,093	692	38,039
136+00	50	69	0	1	0	0	3	150	0	1	0	0	7	17,455	1,851	0	0	18,093	698	38,194
136+50	50	54	0	3	0	0	3	114	0	4	0	0	6	17,569	1,850	0	0	18,093	703	38,309
137+00	50	47	0	5	0	0	2	94	0	7	0	0	5	17,663	1,855	0	0	18,093	707	38,398
137+50	50	47	0	7	0	0	2	87	0	11	0	0	4	17,750	1,864	0	0	18,093	710	38,476
SUBTOTAL								17,750	26	2,202	0	16,449	888							

DIVISION 2 (STA 110+83'WB' - STA 180+91'WB'): CTH PD (STAGE 2)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut (SF)	Salvaged/Unusable Pavement Material (SF)	Fill (SF)	Marsh Exc (SF)	Rock Exc (SF)	EBS (SF)	Cut Note 1 (CY)	Salvaged/Unusable Pavement Material Note 2 (CY)	Fill Note 3 (CY)	Marsh Exc (CY)	Rock Exc (CY)	EBS (CY)	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Reduced Marsh in Fill 0.60 Note 5	Expanded Rock Backfill 1.1	Reduced EBS In Fill 0.80 Note 6	Note 7
			PREVIOUS SHEET SUBTOTAL					17,750	26	2,202	0	16,449	888							
137+50		47	0	7	0	0	2													
138+00	50	46	0	0	0	0	2	86	0	7	0	0	4	86	4	0	0	0	3	82
138+50	50	56	1	0	0	0	3	94	1	0	0	0	5	181	-1	0	0	0	7	180
139+00	50	74	1	1	0	0	4	121	2	1	0	0	6	301	-6	0	0	0	12	304
139+50	50	75	1	0	0	0	4	138	2	1	0	0	7	439	-11	0	0	0	18	445
140+00	50	74	0	1	0	0	4	139	1	1	0	0	7	578	-17	0	0	0	23	588
140+50	50	79	0	0	0	0	4	142	0	1	0	0	7	720	-23	0	0	0	29	736
141+00	50	80	0	0	0	0	4	148	0	0	0	0	7	868	-30	0	0	0	35	891
141+50	50	78	0	0	0	0	4	146	0	0	0	0	7	1,014	-37	0	0	0	41	1,044
142+00	50	89	0	0	0	0	4	154	0	0	0	0	8	1,168	-45	0	0	0	47	1,205
142+50	50	62	0	1	0	0	3	139	0	0	0	0	7	1,307	-51	0	0	0	52	1,351
143+00	50	54	0	1	0	0	3	107	0	2	0	0	5	1,414	-55	0	0	0	57	1,462
143+50	50	63	0	1	0	0	3	108	0	2	0	0	5	1,523	-58	0	0	0	61	1,573
144+00	50	69	0	0	0	0	3	121	0	1	0	0	6	1,644	-63	0	0	0	66	1,700
144+50	50	78	0	0	0	0	4	135	0	0	0	0	7	1,779	-70	0	0	0	71	1,842
145+00	50	90	0	0	0	0	5	156	0	0	0	0	8	1,935	-78	0	0	0	77	2,005
145+50	50	99	0	0	0	0	5	176	0	0	0	0	9	2,111	-87	0	0	0	84	2,190
146+00	50	85	0	4	0	0	4	171	0	3	0	0	9	2,281	-91	0	0	0	91	2,365
146+50	50	118	0	8	0	0	6	188	0	11	0	0	9	2,469	-87	0	0	0	99	2,548
147+00	50	113	0	10	0	0	6	213	0	17	0	0	11	2,682	-76	0	0	0	107	2,751
147+50	50	113	0	8	0	0	6	209	0	17	0	0	10	2,891	-66	0	0	0	116	2,949
148+00	50	124	0	6	0	0	6	219	0	13	0	0	11	3,110	-60	0	0	0	124	3,163
148+50	50	117	0	7	0	0	6	223	0	13	0	0	11	3,333	-56	0	0	0	133	3,382
149+00	50	110	0	4	0	0	5	210	0	10	0	0	11	3,544	-53	0	0	0	142	3,590
149+50	50	95	0	6	0	0	5	190	0	9	0	0	10	3,734	-51	0	0	0	149	3,778
150+00	50	87	0	7	0	0	4	169	0	12	0	0	8	3,902	-45	0	0	0	156	3,940
150+50	50	64	0	24	0	0	3	140	0	29	0	0	7	4,042	-16	0	0	0	162	4,052
151+00	50	16	0	145	0	0	1	74	0	157	0	0	4	4,116	176	0	0	0	165	3,933
151+50	50	82	0	2	0	0	4	91	0	136	0	0	5	4,207	342	0	0	0	168	3,858
152+00	50	71	0	0	0	0	4	142	0	2	0	0	7	4,349	337	0	0	0	174	4,005
152+50	50	70	0	0	0	0	3	130	0	0	0	0	6	4,479	330	0	0	0	179	4,141
153+00	50	71	0	0	0	0	4	130	0	0	0	0	7	4,609	324	0	0	0	184	4,278
153+50	50	71	0	0	0	0	4	132	0	0	0	0	7	4,741	317	0	0	0	190	4,416
154+00	50	74	0	0	0	0	4	134	0	0	0	0	7	4,875	311	0	0	0	195	4,557
154+50	50	70	0	0	0	0	4	133	0	0	0	0	7	5,009	304	0	0	0	200	4,697
155+00	50	56	0	0	0	0	3	117	0	0	0	0	6	5,125	298	0	0	0	205	4,820
155+50	50	46	0	0	0	0	2	94	0	0	0	0	5	5,220	293	0	0	0	209	4,919
156+00	50	33	0	5	0	0	2	73	0	5	0	0	4	5,292	296	0	0	0	212	4,989
156+50	50	25	0	16	0	0	1	54	0	20	0	0	3	5,346	319	0	0	0	214	5,020
157+00	50	19	0	27	0	0	1	41	0	40	0	0	2	5,387	366	0	0	0	215	5,013
157+50	50	15	0	27	0	0	1	31	0	50	0	0	2	5,418	427	0	0	0	217	4,984
158+00	50	23	0	12	0	0	1	35	0	37	0	0	2	5,453	471	0	0	0	218	4,975
158+50	50	60	0	1	0	0	3	76	0	12	0	0	4	5,529	482	0	0	0	221	5,040
159+00	50	85	0	0	0	0	4	134	0	1	0	0	7	5,663	476	0	0	0	227	5,180
159+50	50	91	0	0	0	0	5	163	0	0	0	0	8	5,827	468	0	0	0	233	5,351
160+00	50	106	0	0	0	0	5	183	0	0	0	0	9	6,009	459	0	0	0	240	5,543
160+50	50	105	0	0	0	0	5	195	0	0	0	0	10	6,205	450	0	0	0	248	5,748
161+00	50	144	0	0	0	0	7	230	0	0	0	0	12	6,435	438	0	0	0	257	5,990
161+50	50	108	0	0	0	0	5	233	0	0	0	0	12	6,668	426	0	0	0	267	6,234
162+00	50	101	0	0	0	0	5	193	0	0	0	0	10	6,861	417	0	0	0	274	6,437
162+50	50	98	0	0	0	0	5	184	0	0	0	0	9	7,046	408	0	0	0	282	6,631
163+00	50	110	0	0	0	0	5	192	0	0	0	0	10	7,238	398	0	0	0	290	6,833
163+50	50	85	0	0	0	0	4	180	0	0	0	0	9	7,418	389	0	0	0	297	7,022
164+00	50	81	0	0	0	0	4	154	0	0	0	0	8	7,572	381	0	0	0	303	7,183
		SUBTOTAL						25,322	34	2,809	0	16,449	1,266							

DIVISION 2 (STA 110+83'WB' - STA 180+91'WB'): CTH PD (STAGE 2)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	Exc (CY)	Exc (CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
			PREVIOUS SHEET SUBTOTAL					25,322	34	2,809	0	16,449	1,266							
164+00		81	0	0	0	0	4													
164+50	50	117	0	0	0	0	6	184	0	0	0	0	9	184	-9	0	0	0	7	193
165+00	50	61	0	0	0	0	3	165	0	0	0	0	8	349	-17	0	0	0	14	365
165+50	50	59	0	1	0	0	3	111	0	1	0	0	6	460	-21	0	0	0	18	481
166+00	50	51	0	2	0	0	3	102	0	2	0	0	5	561	-24	0	0	0	22	585
166+50	50	81	0	0	0	0	4	122	0	2	0	0	6	683	-28	0	0	0	27	711
167+00	50	50	0	2	0	0	3	121	0	2	0	0	6	805	-31	0	0	0	32	836
167+50	50	42	0	9	0	0	2	85	0	10	0	0	4	890	-23	0	0	0	36	913
168+00	50	38	0	9	0	0	2	75	0	16	0	0	4	965	-7	0	0	0	39	971
168+50	50	53	0	0	0	0	3	85	0	8	0	0	4	1,050	-1	0	0	0	42	1,050
169+00	50	66	0	0	0	0	3	111	0	0	0	0	6	1,160	-6	0	0	0	46	1,166
169+50	50	64	0	0	0	0	3	120	0	0	0	0	6	1,281	-12	0	0	0	51	1,292
170+00	50	52	0	1	0	0	3	108	0	1	0	0	5	1,388	-16	0	0	0	56	1,404
170+50	50	64	0	0	0	0	3	108	0	1	0	0	5	1,496	-20	0	0	0	60	1,517
171+00	50	79	0	0	0	0	4	133	0	1	0	0	7	1,629	-26	0	0	0	65	1,655
171+50	50	85	0	0	0	0	4	151	0	0	0	0	8	1,780	-33	0	0	0	71	1,814
172+00	50	78	0	0	0	0	4	150	0	1	0	0	8	1,931	-40	0	0	0	77	1,971
172+50	50	74	0	0	0	0	4	141	0	1	0	0	7	2,071	-46	0	0	0	83	2,118
173+00	50	52	0	2	0	0	3	117	0	2	0	0	6	2,188	-50	0	0	0	88	2,238
173+50	50	55	0	1	0	0	3	99	0	2	0	0	5	2,287	-52	0	0	0	91	2,339
174+00	50	68	0	0	0	0	3	113	0	1	0	0	6	2,401	-56	0	0	0	96	2,457
174+50	50	77	0	1	0	0	4	134	0	1	0	0	7	2,534	-62	0	0	0	101	2,597
175+00	50	109	1	0	0	0	5	172	1	1	0	0	9	2,707	-70	0	0	0	108	2,776
175+50	50	109	1	0	0	0	5	202	2	0	0	0	10	2,908	-80	0	0	0	116	2,985
176+00	50	112	1	0	0	0	6	204	2	0	0	0	10	3,112	-91	0	0	0	124	3,197
176+50	50	115	1	0	0	0	6	210	2	0	0	0	10	3,322	-101	0	0	0	133	3,415
177+00	50	109	1	0	0	0	5	207	2	0	0	0	10	3,529	-111	0	0	0	141	3,630
177+50	50	104	1	0	0	0	5	197	2	0	0	0	10	3,726	-121	0	0	0	149	3,834
178+00	50	98	1	0	0	0	5	187	2	0	0	0	9	3,913	-131	0	0	0	157	4,028
178+50	50	98	1	0	0	0	5	182	2	0	0	0	9	4,095	-140	0	0	0	164	4,217
179+00	50	6	1	0	0	0	0	97	2	0	0	0	5	4,192	-145	0	0	0	168	4,316
179+50	50	6	1	0	0	0	0	11	2	0	0	0	1	4,203	-145	0	0	0	168	4,325
180+00	50	6	1	0	0	0	0	11	2	0	0	0	1	4,214	-146	0	0	0	169	4,335
180+50	50	6	1	0	0	0	0	11	2	0	0	0	1	4,225	-146	0	0	0	169	4,344
180+91	41	6	1	0	0	0	0	9	2	0	0	0	0	4,235	-147	0	0	0	169	4,352
			TOTAL					29,557	63	2,861	0	16,449	1,478							

DIVISION 2 (STA 208+62'AT' - STA 216+97'AT'): ICE AGE TRAIL (STAGE 2)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	(CY)	(CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
208+62		1,663	0	0	0	0	83													
209+00	38	263	0	0	0	0	13	1,346	0	0	0	0	67	1,346	-67	0	0	0	54	1,413
209+50	50	173	0	32	0	0	9	403	0	29	0	0	20	1,749	-51	0	0	0	70	1,800
210+00	50	158	0	44	0	0	8	306	0	70	0	0	15	2,056	21	0	0	0	82	2,035
210+50	50	325	0	0	0	0	16	448	0	40	0	0	22	2,504	49	0	0	0	100	2,455
211+00	50	477	0	0	0	0	24	743	0	0	0	0	37	3,247	12	0	0	0	130	3,235
211+50	50	219	0	0	0	0	11	644	0	0	0	0	32	3,891	-20	0	0	0	156	3,911
212+00	50	903	0	0	0	198	45	1,039	0	0	0	183	52	4,929	-72	0	0	201	197	5,253
212+50	50	295	0	0	0	0	15	1,109	0	0	0	183	55	6,039	-128	0	0	403	242	6,670
213+00	50	275	0	0	0	33	14	528	0	0	0	30	26	6,567	-154	0	0	436	263	7,266
213+50	50	189	0	0	0	102	9	429	0	0	0	125	21	6,996	-176	0	0	573	280	7,888
214+00	50	120	0	22	0	117	6	286	0	20	0	203	14	7,282	-165	0	0	796	291	8,443
214+50	50	105	0	23	0	105	5	208	0	41	0	205	10	7,491	-124	0	0	1,022	300	8,893
215+00	50	149	0	9	0	42	7	235	0	29	0	136	12	7,725	-100	0	0	1,171	309	9,290
215+50	50	119	0	1	0	57	6	248	0	9	0	92	12	7,973	-101	0	0	1,272	319	9,665
216+00	50	148	0	0	0	87	7	247	0	1	0	134	12	8,221	-113	0	0	1,420	329	10,108
216+50	50	151	0	0	0	0	8	277	0	0	0	81	14	8,498	-127	0	0	1,509	340	10,511
216+97	47	12	0	0	0	0	1	141	0	0	0	0	7	8,639	-134	0	0	1,509	346	10,659
								8,639	0	238	0	1,372	432							

DIVISION 2 (STA 30+05'ST' - STA 32+15'ST'): SNOWYCAP TRAIL (STAGE 2)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	(CY)	(CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
30+05		73	0	2	0	0	0													
30+50	45	53	0	6	0	0	0	105	0	7	0	0	0	105	9	0	0	0	0	96
31+00	50	148	0	0	0	0	0	186	0	6	0	0	0	291	16	0	0	0	0	275
31+50	50	107	0	0	0	0	0	237	0	0	0	0	0	528	17	0	0	0	0	511
32+00	50	55	0	0	0	0	0	150	0	0	0	0	0	678	17	0	0	0	0	661
32+15	15	19	0	0	0	0	0	20	0	0	0	0	0	698	17	0	0	0	0	680
								698	0	14	0	0	0							

DIVISION 2 (STA 50+26'D' - STA 51+55'D'): TRAIL 'D' (STAGE 2)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	(CY)	(CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
50+26		7	0	0	0	0	0													
50+50	24	29	0	0	0	0	1	16	0	0	0	0	1	16	-1	0	0	0	1	17
51+00	50	119	0	0	0	0	6	137	0	0	0	0	7	153	-8	0	0	0	6	161
51+50	50	55	0	0	0	0	3	161	0	0	0	0	8	314	-16	0	0	0	13	329
51+55	5	43	0	0	0	0	2	9	0	0	0	0	0	323	-16	0	0	0	13	339
								323	0	0	0	0	16							

DIVISION 2 (STA 20+27'HP' - STA 23+25'HP'): SOUTH HIGH POINT ROAD (STAGE 2)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	Exc (CY)	Exc (CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
20+27		971	5	0	0	0	49													
20+50	23	393	5	39	0	0	20	577	4	16	0	0	29	577	-8	0	0	0	23	581
21+00	50	128	5	90	0	0	6	483	10	119	0	0	24	1,059	116	0	0	0	42	929
21+50	50	100	5	67	0	0	5	212	10	146	0	0	11	1,271	287	0	0	0	51	960
22+00	50	152	5	25	0	0	8	234	10	85	0	0	12	1,505	382	0	0	0	60	1,089
22+50	50	195	5	4	0	0	10	322	10	27	0	0	16	1,827	400	0	0	0	73	1,384
23+00	50	207	5	2	0	0	10	372	10	5	0	0	19	2,199	388	0	0	0	88	1,758
23+25	25	127	5	1	0	0	6	155	5	1	0	0	8	2,354	382	0	0	0	94	1,915
								2,354	57	400	0	0	118							

DIVISION 2 (STA 30+27'SW' - STA 31+50'SW'): STRATTON WAY (STAGE 2)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	Exc (CY)	Exc (CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
30+27		182	3	0	0	0	9													
30+50	23	194	3	0	0	0	10	160	2	0	0	0	8	160	-8	0	0	0	6	166
31+00	50	115	3	17	0	0	6	286	5	16	0	0	14	446	-2	0	0	0	18	441
31+50	50	126	3	0	0	0	6	223	5	16	0	0	11	669	6	0	0	0	27	651
								669	12	32	0	0	33							

DIVISION 2 (STA 11+05'BM' - STA 20+10'BM'): DRAINAGE WAY (STAGE 2)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	Exc (CY)	Exc (CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
11+05		0	0	86	0	0	0													
11+50	45	190	0	249	0	0	10	157	0	277	0	0	8	157	339	0	0	0	6	-181
12+00	50	322	0	3	0	0	16	474	0	233	0	0	24	632	607	0	0	0	25	25
12+50	50	177	0	2	0	0	9	462	0	5	0	0	23	1,094	589	0	0	0	44	504
13+00	50	188	0	7	0	0	9	338	0	8	0	0	17	1,432	582	0	0	0	57	849
13+50	50	178	0	8	0	0	9	339	0	14	0	0	17	1,771	582	0	0	0	71	1,188
14+00	50	190	0	8	0	0	9	341	0	15	0	0	17	2,111	584	0	0	0	84	1,528
14+50	50	234	0	0	0	0	12	393	0	7	0	0	20	2,504	573	0	0	0	100	1,931
15+00	50	346	0	0	0	0	17	537	0	0	0	0	27	3,041	546	0	0	0	122	2,495
15+50	50	319	0	0	0	0	16	616	0	0	0	0	31	3,657	515	0	0	0	146	3,141
16+00	50	3	0	306	0	0	0	299	0	284	0	0	15	3,955	855	0	0	0	158	3,100
16+50	50	0	0	421	0	0	0	3	0	674	0	0	0	3,958	1,697	0	0	0	158	2,261
17+00	50	1	0	301	0	0	0	1	0	669	0	0	0	3,959	2,534	0	0	0	158	1,426
17+50	50	11	0	204	0	0	1	11	0	468	0	0	1	3,970	3,118	0	0	0	159	853
18+00	50	27	0	153	0	0	1	35	0	330	0	0	2	4,005	3,528	0	0	0	160	477
18+50	50	50	0	82	0	0	3	72	0	217	0	0	4	4,077	3,796	0	0	0	163	281
19+00	50	52	0	79	0	0	3	95	0	149	0	0	5	4,172	3,978	0	0	0	167	194
19+50	50	9	0	57	0	0	0	57	0	126	0	0	3	4,228	4,132	0	0	0	169	96
20+00	50	2	0	1	0	0	0	11	0	53	0	0	1	4,239	4,198	0	0	0	170	41
20+10	10	1	0	0	0	0	0	1	0	0	0	0	0	4,240	4,198	0	0	0	170	42
								4,240	0	3,528	0	0	212							

DIVISION 2 (STA 10+00'PA' - STA 19+46'PA'): POND A (STAGE 2)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	Note 3 (CY)	Note 3 (CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
10+00		137	0	0	0	0	7													
10+50	50	352	0	0	0	0	18	453	0	0	0	0	23	453	-23	0	0	0	18	475
11+00	50	287	0	0	0	0	14	592	0	0	0	0	30	1,045	-52	0	0	0	42	1,097
11+50	50	305	0	7	0	0	15	548	0	7	0	0	27	1,593	-71	0	0	0	64	1,664
12+00	50	325	0	7	0	0	16	583	0	13	0	0	29	2,175	-84	0	0	0	87	2,260
12+50	50	292	0	2	0	0	15	571	0	8	0	0	29	2,746	-103	0	0	0	110	2,849
13+00	50	4	0	83	0	0	0	274	0	79	0	0	14	3,020	-18	0	0	0	121	3,038
13+50	50	34	0	84	0	0	2	35	0	155	0	0	2	3,054	174	0	0	0	122	2,881
14+00	50	77	0	83	0	0	4	102	0	155	0	0	5	3,156	362	0	0	0	126	2,794
14+50	50	91	0	112	0	0	5	155	0	181	0	0	8	3,311	581	0	0	0	132	2,730
15+00	50	98	0	130	0	0	5	174	0	224	0	0	9	3,486	852	0	0	0	139	2,633
15+50	50	89	0	154	0	0	4	173	0	262	0	0	9	3,658	1,171	0	0	0	146	2,487
16+00	50	32	0	107	0	0	2	112	0	241	0	0	6	3,770	1,468	0	0	0	151	2,302
16+50	50	64	0	9	0	0	3	89	0	108	0	0	4	3,858	1,598	0	0	0	154	2,261
17+00	50	226	0	5	0	0	11	269	0	13	0	0	13	4,127	1,601	0	0	0	165	2,526
17+50	50	370	0	0	0	0	18	552	0	5	0	0	28	4,679	1,579	0	0	0	187	3,099
18+00	50	257	0	53	0	0	13	580	0	49	0	0	29	5,258	1,612	0	0	0	210	3,647
18+50	50	59	0	174	0	0	3	292	0	210	0	0	15	5,551	1,860	0	0	0	222	3,690
19+00	50	5	0	158	0	0	0	60	0	308	0	0	3	5,610	2,242	0	0	0	224	3,368
19+46	46	137	0	0	0	0	7	122	0	135	0	0	6	5,732	2,405	0	0	0	229	3,328
								5,732	0	2,153	0	0	287							

DIVISION 2 (STA 20+00'PB' - STA 25+81'PB'): POND B (STAGE 2)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	Note 3 (CY)	Note 3 (CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
20+00		112	0	20	0	0	6													
20+50	50	49	0	23	0	0	2	149	0	40	0	0	7	149	43	0	0	0	6	106
21+00	50	121	0	0	0	0	6	157	0	21	0	0	8	306	61	0	0	0	12	245
21+50	50	127	0	0	0	0	6	229	0	0	0	0	11	535	50	0	0	0	21	485
22+00	50	0	0	66	0	0	0	118	0	61	0	0	6	653	121	0	0	0	26	533
22+50	50	10	0	40	0	0	0	9	0	98	0	0	0	662	243	0	0	0	26	420
23+00	50	108	0	37	0	0	5	109	0	72	0	0	5	772	327	0	0	0	31	445
23+50	50	28	0	28	0	0	1	126	0	60	0	0	6	898	395	0	0	0	36	503
24+00	50	14	0	7	0	0	1	39	0	32	0	0	2	938	434	0	0	0	38	504
24+50	50	25	0	145	0	0	1	37	0	141	0	0	2	974	608	0	0	0	39	366
25+00	50	23	0	89	0	0	1	44	0	217	0	0	2	1,018	876	0	0	0	41	142
25+50	50	114	0	38	0	0	6	126	0	118	0	0	6	1,144	1,017	0	0	0	46	127
25+81	31	112	0	21	0	0	6	128	0	33	0	0	6	1,272	1,052	0	0	0	51	219
								1,272	0	893	0	0	64							

DIVISION 2 (STA 54+77'CM' - STA 56+59'CM): MUIR FIELD ROAD (STAGE 2)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	Note 3 (CY)	Note 3 (CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
54+77		735	3	182	0	0	37													
55+00	23	229	3	0	0	0	11	418	2	79	0	0	21	418	78	0	0	0	17	338
55+50	50	170	3	0	0	0	9	370	5	0	0	0	19	788	59	0	0	0	32	721
56+00	50	157	3	1	0	0	8	303	5	1	0	0	15	1,091	45	0	0	0	44	1,034
56+50	50	21	1	0	0	0	1	165	4	1	0	0	8	1,256	37	0	0	0	50	1,203
56+59	9	21	1	0	0	0	1	7	0	0	0	0	0	1,264	37	0	0	0	51	1,211
								1,264	16	80	0	0	63							

DIVISION 2 (STA 72+62'TS' - STA 72+99'TS'): SILVERTON TRAIL (STAGE 2)

		Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						
STATION	Distance	Cut (SF)	Salvaged/Unusable Pavement Material (SF)	Fill (SF)	Marsh Exc (SF)	Rock Exc (SF)	EBS (SF)	Cut Note 1 (CY)	Salvaged/Unusable Pavement Material Note 2 (CY)	Fill Note 3 (CY)	Marsh Exc (CY)	Rock Exc (CY)	EBS (CY)	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Reduced Marsh in Fill 0.60 Note 5	Expanded Rock Backfill 1.1	Reduced EBS In Fill 0.80 Note 6	Mass Ordinate Note 7
72+62		428	3	0	0	0	0													
72+99	37	128	3	0	0	0	0	379	4	0	0	0	4	379	-4	0	0	0	3	380
								379	4	0	0	0	4							

DIVISION 2 (STA 111+74'WB' - STA 116+35'WB'): CTH PD (STAGE 2)

		Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						
STATION	Distance	Cut (SF)	Salvaged/Unusable Pavement Material (SF)	Fill (SF)	Marsh Exc (SF)	Rock Exc (SF)	EBS (SF)	Cut Note 1 (CY)	Salvaged/Unusable Pavement Material Note 2 (CY)	Fill Note 3 (CY)	Marsh Exc (CY)	Rock Exc (CY)	EBS (CY)	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Reduced Marsh in Fill 0.60 Note 5	Expanded Rock Backfill 1.1	Reduced EBS In Fill 0.80 Note 6	Mass Ordinate Note 7
111+74		7	0	0	0	0	0													
112+00	26	9	0	0	0	0	0	7	0	0	0	0	0	7	0	0	0	0	0	8
112+50	50	9	0	0	0	0	0	16	0	0	0	0	0	24	0	0	0	0	0	24
113+00	50	9	0	0	0	0	0	17	0	0	0	0	0	41	0	0	0	0	0	41
113+50	50	5	0	1	0	0	0	13	0	1	0	0	0	53	1	0	0	0	0	53
114+00	50	2	0	2	0	0	0	6	0	2	0	0	0	59	3	0	0	0	0	56
114+50	50	2	0	2	0	0	0	3	0	3	0	0	0	63	7	0	0	0	0	55
115+00	50	2	0	2	0	0	0	3	0	4	0	0	0	66	13	0	0	0	0	53
115+50	50	1	0	3	0	0	0	2	0	5	0	0	0	68	19	0	0	0	0	49
116+00	50	1	0	1	0	0	0	2	0	4	0	0	0	69	24	0	0	0	0	45
116+35	35	0	0	0	0	0	0	0	0	1	0	0	0	70	25	0	0	0	0	45
								70	0	21	0	0	1							

DIVISION 2 (STA 130+02'WB' - STA 134+06'WB'): CTH PD (STAGE 2)

		Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						
STATION	Distance	Cut (SF)	Salvaged/Unusable Pavement Material (SF)	Fill (SF)	Marsh Exc (SF)	Rock Exc (SF)	EBS (SF)	Cut Note 1 (CY)	Salvaged/Unusable Pavement Material Note 2 (CY)	Fill Note 3 (CY)	Marsh Exc (CY)	Rock Exc (CY)	EBS (CY)	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Reduced Marsh in Fill 0.60 Note 5	Expanded Rock Backfill 1.1	Reduced EBS In Fill 0.80 Note 6	Mass Ordinate Note 7
130+02		68	0	0	0	0	3													
130+50	48	69	0	0	0	0	3	123	0	0	0	0	9	123	-9	0	0	0	7	132
131+00	50	73	0	0	0	0	4	132	0	0	0	0	10	255	-18	0	0	0	15	273
131+50	50	71	0	0	0	0	4	133	0	0	0	0	9	388	-28	0	0	0	22	416
132+00	50	67	0	0	0	0	3	127	0	0	0	0	8	515	-36	0	0	0	29	552
132+50	50	63	0	0	0	0	3	120	0	0	0	0	8	635	-44	0	0	0	35	679
133+00	50	63	0	0	0	0	3	117	0	0	0	0	7	752	-51	0	0	0	41	804
133+50	50	56	0	0	0	0	3	111	0	0	0	0	6	863	-58	0	0	0	46	921
134+00	50	49	0	0	0	0	2	97	0	0	0	0	5	960	-62	0	0	0	50	1,023
134+06	6	48	0	0	0	0	2	12	0	0	0	0	4	972	-67	0	0	0	53	1,039
								972	0	0	0	0	67							

DIVISION 2 (STA 136+50'WB' - STA 137+55'WB'): CTH PD (STAGE 2)

		Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						
			Salvaged/Unusable						Salvaged/Unusable							Expanded	Expanded Marsh	Reduced Marsh	Expanded Rock	Reduced EBS	Mass
STATION	Distance	Cut	Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut Note 1	Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cut 1.00 Note 1	Fill 1.25	Backfill 1.50 Note 4	in Fill 0.60 Note 5	Backfill 1.1	In Fill 0.80 Note 6	Ordinate Note 7
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)							
136+50		0	0	3	0	0	0													
137+00	50	0	0	4	0	0	0	0	0	7	0	0	0	0	8	0	0	0	0	-8
137+50	50	0	0	5	0	0	0	0	0	8	0	0	0	0	18	0	0	0	0	-18
137+55	5	0	0	5	0	0	0	0	0	1	0	0	0	0	20	0	0	0	0	-20
								0	0	16	0	0	0							

DIVISION 2 (STA 138+64'WB' - STA 142+41'WB'): CTH PD (STAGE 2)

		Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						
			Salvaged/Unusable						Salvaged/Unusable							Expanded	Expanded Marsh	Reduced Marsh	Expanded Rock	Reduced EBS	Mass
STATION	Distance	Cut	Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut Note 1	Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cut 1.00 Note 1	Fill 1.25	Backfill 1.50 Note 4	in Fill 0.60 Note 5	Backfill 1.1	In Fill 0.80 Note 6	Ordinate Note 7
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)							
138+64		0	0	4	0	0	0													
139+00	36	0	0	3	0	0	0	0	0	5	0	0	0	0	6	0	0	0	0	-6
139+50	50	0	0	2	0	0	0	0	0	5	0	0	0	0	12	0	0	0	0	-12
140+00	50	0	0	1	0	0	0	0	0	3	0	0	0	0	16	0	0	0	0	-16
140+50	50	1	0	1	0	0	0	1	0	2	0	0	0	1	18	0	0	0	0	-18
141+00	50	8	0	0	0	0	0	8	0	1	0	0	0	9	19	0	0	0	0	-10
141+50	50	10	0	0	0	0	0	17	0	0	0	0	0	25	19	0	0	0	0	7
142+00	50	8	0	0	0	0	0	17	0	0	0	0	0	42	19	0	0	0	0	23
142+41	41	6	0	0	0	0	0	11	0	0	0	0	0	53	19	0	0	0	0	34
								53	0	15	0	0	0							

DIVISION 2 (STA 142+74'WB' - STA 146+00'WB'): CTH PD (STAGE 2)

		Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						
			Salvaged/Unusable						Salvaged/Unusable							Expanded	Expanded Marsh	Reduced Marsh	Expanded Rock	Reduced EBS	Mass
STATION	Distance	Cut	Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut Note 1	Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cut 1.00 Note 1	Fill 1.25	Backfill 1.50 Note 4	in Fill 0.60 Note 5	Backfill 1.1	In Fill 0.80 Note 6	Ordinate Note 7
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)							
142+74		5	0	0	0	0	0													
143+00	26	7	0	0	0	0	0	6	0	0	0	0	0	6	0	0	0	0	0	5
143+50	50	3	0	1	0	0	0	9	0	1	0	0	0	15	2	0	0	0	0	13
144+00	50	4	0	1	0	0	0	6	0	1	0	0	0	21	3	0	0	0	0	18
144+50	50	6	0	0	0	0	0	9	0	0	0	0	0	31	4	0	0	0	0	27
145+00	50	10	0	0	0	0	1	15	0	0	0	0	0	46	3	0	0	0	0	42
145+50	50	14	0	0	0	0	1	23	0	0	0	0	0	68	3	0	0	0	1	65
146+00	50	20	0	0	0	0	1	32	0	0	0	0	1	100	3	0	0	0	1	98
								100	0	3	0	0	1							

DIVISION 2 (STA 150+28'WB' - STA 154+49'WB'): CTH PD (STAGE 2)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	(CY)	(CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
150+28		3	0	0	0	0	0													
150+50	22	7	0	0	0	0	0	4	0	0	0	0	0	4	0	0	0	0	0	4
151+00	50	10	0	0	0	0	1	16	0	0	0	0	0	20	0	0	0	0	0	20
151+50	50	9	0	0	0	0	0	18	0	0	0	0	0	38	0	0	0	0	0	38
152+00	50	11	0	0	0	0	1	19	0	0	0	0	0	57	-1	0	0	0	0	57
152+50	50	11	0	0	0	0	1	20	0	0	0	0	0	77	-1	0	0	0	1	78
153+00	50	12	0	0	0	0	1	21	0	0	0	0	0	98	-1	0	0	0	1	99
153+50	50	15	0	0	0	0	1	25	0	0	0	0	0	123	-1	0	0	0	1	125
154+00	50	15	0	0	0	0	1	28	0	0	0	0	0	151	-2	0	0	0	2	153
154+49	49	15	0	0	0	0	1	28	0	0	0	0	0	179	-2	0	0	0	2	181
								179	0	0	0	0	2							

DIVISION 2 (STA 156+10'WB' - STA 159+80'WB'): CTH PD (STAGE 2)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	(CY)	(CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
156+10		2	0	2	0	0	0													
156+50	40	0	0	5	0	0	0	2	0	5	0	0	0	2	7	0	0	0	0	-5
157+00	50	0	0	6	0	0	0	0	0	10	0	0	0	2	20	0	0	0	0	-18
157+50	50	0	0	6	0	0	0	0	0	11	0	0	0	2	33	0	0	0	0	-32
158+00	50	0	0	6	0	0	0	0	0	11	0	0	0	2	48	0	0	0	0	-46
158+50	50	1	0	3	0	0	0	1	0	8	0	0	0	3	58	0	0	0	0	-55
159+00	50	1	0	2	0	0	0	2	0	4	0	0	0	5	63	0	0	0	0	-58
159+50	50	2	0	1	0	0	0	3	0	3	0	0	0	8	67	0	0	0	0	-59
159+80	30	4	0	1	0	0	0	3	0	1	0	0	0	12	68	0	0	0	0	-57
								12	0	55	0	0	0							

DIVISION 2 (STA 165+00'WB' - STA 170+78'WB'): CTH PD (STAGE 2)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	(CY)	(CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
165+00		3	0	1	0	0	0													
165+50	50	1	0	3	0	0	0	4	0	3	0	0	0	4	4	0	0	0	0	0
166+00	50	0	0	3	0	0	0	1	0	6	0	0	0	5	11	0	0	0	0	-6
166+50	50	0	0	3	0	0	0	0	0	6	0	0	0	5	19	0	0	0	0	-13
167+00	50	1	0	2	0	0	0	1	0	4	0	0	0	6	24	0	0	0	0	-18
167+50	50	0	0	3	0	0	0	1	0	5	0	0	0	7	30	0	0	0	0	-23
168+00	50	0	0	3	0	0	0	0	0	6	0	0	0	8	37	0	0	0	0	-30
168+50	50	13	0	0	0	0	1	12	0	3	0	0	0	20	41	0	0	0	0	-21
169+00	50	14	0	0	0	0	1	25	0	0	0	0	0	44	41	0	0	0	0	4
169+50	50	0	0	5	0	0	0	13	0	4	0	0	0	57	46	0	0	0	0	11
170+00	50	0	0	3	0	0	0	0	0	8	0	0	0	57	56	0	0	0	0	1
170+50	50	1	0	2	0	0	0	1	0	5	0	0	0	58	62	0	0	0	0	-4
170+78	28	2	0	1	0	0	0	2	0	2	0	0	0	60	64	0	0	0	0	-4
								60	0	52	0	0	1							

DIVISION 3 (STA 110+63'WB' - STA 177+28'WB'): CTH PD (STAGE 3)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut (SF)	Salvaged/Unusable Pavement Material (SF)	Fill (SF)	Marsh Exc (SF)	Rock Exc (SF)	EBS (SF)	Cut Note 1 (CY)	Salvaged/Unusable Pavement Material Note 2 (CY)	Fill Note 3 (CY)	Marsh Exc (CY)	Rock Exc (CY)	EBS (CY)	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Reduced Marsh in Fill 0.60 Note 5	Expanded Rock Backfill 1.1	Reduced EBS In Fill 0.80 Note 6	Note 7
110+63		3	0	0	0	0	0													
111+00	37	21	0	28	0	0	1	16	0	19	0	0	1	16	23	0	0	0	1	-7
111+50	50	157	0	17	0	0	8	165	0	42	0	0	8	181	68	0	0	0	7	113
112+00	50	127	1	10	0	0	6	263	1	25	0	0	13	444	86	0	0	0	18	356
112+50	50	128	1	9	0	0	6	236	2	18	0	0	12	679	97	0	0	0	27	579
113+00	50	139	1	7	0	0	7	247	2	15	0	0	12	927	104	0	0	0	37	817
113+50	50	146	1	6	0	0	7	264	2	12	0	0	13	1,191	106	0	0	0	48	1,077
114+00	50	152	1	6	0	0	8	276	2	11	0	0	14	1,467	107	0	0	0	59	1,350
114+50	50	158	1	5	0	0	8	287	2	11	0	0	14	1,754	106	0	0	0	70	1,635
115+00	50	163	1	3	0	0	8	297	2	8	0	0	15	2,051	100	0	0	0	82	1,935
115+50	50	161	0	2	0	0	8	300	1	5	0	0	15	2,351	91	0	0	0	94	2,243
116+00	50	171	0	1	0	0	9	308	0	3	0	0	15	2,659	80	0	0	0	106	2,562
116+50	50	194	0	66	0	0	10	338	0	62	0	0	17	2,996	140	0	0	0	120	2,839
117+00	50	231	0	0	0	0	12	393	0	61	0	0	20	3,390	197	0	0	0	136	3,176
117+50	50	278	0	0	0	0	14	472	0	0	0	0	24	3,861	174	0	0	0	154	3,671
118+00	50	108	0	0	0	218	5	358	0	0	0	201	18	4,219	156	0	0	222	169	4,324
118+50	50	162	0	0	0	205	8	250	0	0	0	391	13	4,469	143	0	0	652	179	5,124
119+00	50	196	0	0	0	217	10	331	0	0	0	391	17	4,801	127	0	0	1,082	192	6,009
119+50	50	166	0	0	0	313	8	335	0	0	0	491	17	5,135	110	0	0	1,622	205	7,036
120+00	50	183	0	0	0	445	9	322	0	0	0	702	16	5,458	94	0	0	2,394	218	8,339
120+50	50	188	0	5	0	520	9	343	0	5	0	893	17	5,801	82	0	0	3,376	232	9,922
121+00	50	208	0	0	0	592	10	366	0	5	0	1,030	18	6,167	70	0	0	4,509	247	11,717
121+50	50	217	0	0	0	798	11	394	0	0	0	1,287	20	6,561	50	0	0	5,925	262	13,900
122+00	50	82	0	0	0	533	4	277	0	0	0	1,233	14	6,838	36	0	0	7,281	274	15,886
122+50	50	89	0	0	0	551	4	159	0	0	0	1,004	8	6,997	28	0	0	8,385	280	17,432
123+00	50	456	0	0	0	1,000	23	505	0	0	0	1,436	25	7,502	3	0	0	9,964	300	19,937
123+50	50	469	0	0	0	977	23	857	0	0	0	1,831	43	8,358	-40	0	0	11,978	334	23,354
124+00	50	207	0	0	0	773	10	626	0	0	0	1,620	31	8,984	-71	0	0	13,760	359	26,239
124+50	50	244	0	0	0	719	12	417	0	0	0	1,381	21	9,401	-92	0	0	15,280	376	28,576
125+00	50	518	0	0	0	851	26	705	0	0	0	1,454	35	10,107	-127	0	0	16,879	404	31,315
125+50	50	453	0	0	0	812	23	900	0	0	0	1,540	45	11,006	-172	0	0	18,572	440	34,377
126+00	50	391	0	0	0	731	20	782	0	0	0	1,429	39	11,788	-211	0	0	20,144	472	37,163
126+50	50	295	0	0	0	688	15	635	0	0	0	1,314	32	12,424	-243	0	0	21,589	497	39,637
127+00	50	265	0	0	0	609	13	519	0	0	0	1,200	26	12,942	-269	0	0	22,910	518	41,832
127+50	50	234	0	0	0	518	12	462	0	0	0	1,043	23	13,405	-292	0	0	24,058	536	43,752
128+00	50	166	0	0	0	453	8	370	0	0	0	900	19	13,775	-311	0	0	25,047	551	45,377
128+50	50	513	0	0	0	3	26	629	0	0	0	422	31	14,404	-342	0	0	25,512	576	46,618
129+00	50	464	0	0	0	0	23	905	0	0	0	2	45	15,308	-387	0	0	25,514	612	47,571
129+50	50	428	0	0	0	0	21	825	0	0	0	0	41	16,133	-428	0	0	25,514	645	48,438
130+00	50	364	0	0	0	0	18	733	0	0	0	0	37	16,866	-465	0	0	25,514	675	49,207
130+50	50	366	0	0	0	0	18	676	0	0	0	0	34	17,542	-499	0	0	25,514	702	49,917
131+00	50	364	0	0	0	0	18	676	0	0	0	0	34	18,218	-533	0	0	25,514	729	50,627
131+50	50	362	0	0	0	0	18	672	0	0	0	0	34	18,890	-566	0	0	25,514	756	51,333
132+00	50	294	0	0	0	0	15	607	0	0	0	0	30	19,498	-597	0	0	25,514	780	51,971
132+50	50	230	0	0	0	0	11	485	0	0	0	0	24	19,982	-621	0	0	25,514	799	52,479
133+00	50	342	0	13	0	0	17	529	0	12	0	0	26	20,511	-633	0	0	25,514	820	53,020
133+50	50	573	0	0	0	0	29	847	0	12	0	0	42	21,358	-661	0	0	25,514	854	53,895
134+00	50	326	0	270	0	0	16	832	0	250	0	0	42	22,191	-390	0	0	25,514	888	54,457
134+50	50	205	0	0	0	0	10	491	0	250	0	0	25	22,682	-103	0	0	25,514	907	54,661
135+00	50	149	0	0	0	0	7	328	0	0	0	0	16	23,010	-118	0	0	25,514	920	55,005
135+50	50	106	0	101	0	0	5	236	0	94	0	0	12	23,246	-13	0	0	25,514	930	55,135
136+00	50	92	0	201	0	0	5	184	0	280	0	0	9	23,430	328	0	0	25,514	937	54,979
136+50	50	81	1	244	0	0	4	161	1	412	0	0	8	23,591	834	0	0	25,514	944	54,631
137+00	50	74	1	275	0	0	4	143	2	480	0	0	7	23,734	1,428	0	0	25,514	949	54,179
137+50	50	73	1	227	0	0	4	135	2	465	0	0	7	23,869	2,002	0	0	25,514	955	53,737
SUBTOTAL								23,869	23	2,557	0	23,195	1,193							

DIVISION 3 (STA 110+63'WB' - STA 177+28'WB'): CTH PD (STAGE 3)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut (SF)	Salvaged/Unusable Pavement Material (SF)	Fill (SF)	Marsh Exc (SF)	Rock Exc (SF)	EBS (SF)	Cut Note 1 (CY)	Salvaged/Unusable Pavement Material Note 2 (CY)	Fill Note 3 (CY)	Marsh Exc (CY)	Rock Exc (CY)	EBS (CY)	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Reduced Marsh in Fill 0.60 Note 5	Expanded Rock Backfill 1.1	Reduced EBS In Fill 0.80 Note 6	
			PREVIOUS SHEET SUBTOTALS					**23,869**	**23**	**2,557**	**0**	**23,195**	**1,193**							
137+50		73	1	227	0	0	4													
138+00	50	73	1	196	0	0	4	134	2	392	0	0	7	134	483	0	0	0	5	-351
138+50	50	81	1	132	0	0	4	142	2	304	0	0	7	276	856	0	0	0	11	-585
139+00	50	83	1	101	0	0	4	151	2	216	0	0	8	427	1,119	0	0	0	17	-699
139+50	50	87	1	82	0	0	4	157	2	170	0	0	8	584	1,324	0	0	0	23	-749
140+00	50	95	1	19	0	0	5	168	2	94	0	0	8	753	1,432	0	0	0	30	-692
140+50	50	116	1	0	0	0	6	195	2	18	0	0	10	948	1,445	0	0	0	38	-512
141+00	50	129	1	0	0	0	6	227	2	0	0	0	11	1,174	1,434	0	0	0	47	-276
141+50	50	132	1	0	0	0	7	242	2	0	0	0	12	1,416	1,422	0	0	0	57	-25
142+00	50	128	1	0	0	0	6	241	2	0	0	0	12	1,658	1,410	0	0	0	66	226
142+50	50	79	0	0	0	0	4	192	1	0	0	0	10	1,850	1,400	0	0	0	74	427
143+00	50	100	0	0	0	0	5	166	0	0	0	0	8	2,015	1,392	0	0	0	81	601
143+50	50	105	0	1	0	0	5	190	0	1	0	0	10	2,205	1,384	0	0	0	88	799
144+00	50	92	0	15	0	0	5	182	0	15	0	0	9	2,388	1,393	0	0	0	96	972
144+50	50	87	0	16	0	0	4	166	0	29	0	0	8	2,553	1,421	0	0	0	102	1,110
145+00	50	85	0	20	0	0	4	159	0	33	0	0	8	2,713	1,455	0	0	0	109	1,235
145+50	50	83	0	18	0	0	4	155	0	35	0	0	8	2,868	1,490	0	0	0	115	1,355
146+00	50	116	0	12	0	0	6	185	0	28	0	0	9	3,053	1,516	0	0	0	122	1,513
146+50	50	133	0	9	0	0	7	231	0	20	0	0	12	3,284	1,529	0	0	0	131	1,731
147+00	50	147	0	20	0	0	7	259	0	27	0	0	13	3,543	1,550	0	0	0	142	1,970
147+50	50	157	0	10	0	0	8	282	0	28	0	0	14	3,824	1,571	0	0	0	153	2,231
148+00	50	172	0	8	0	0	9	306	0	17	0	0	15	4,130	1,577	0	0	0	165	2,530
148+50	50	183	0	2	0	0	9	329	0	10	0	0	16	4,459	1,573	0	0	0	178	2,864
149+00	50	186	0	14	0	0	9	342	0	15	0	0	17	4,801	1,575	0	0	0	192	3,203
149+50	50	169	0	26	0	0	8	328	0	37	0	0	16	5,129	1,605	0	0	0	205	3,502
150+00	50	102	0	39	0	0	5	251	0	60	0	0	13	5,380	1,667	0	0	0	215	3,691
150+50	50	102	0	43	0	0	5	190	0	76	0	0	9	5,570	1,752	0	0	0	223	3,796
151+00	50	99	0	59	0	0	5	187	0	94	0	0	9	5,757	1,860	0	0	0	230	3,874
151+50	50	98	0	105	0	0	5	182	0	152	0	0	9	5,939	2,041	0	0	0	238	3,876
152+00	50	78	0	0	0	0	4	162	0	98	0	0	8	6,101	2,154	0	0	0	244	3,924
152+50	50	77	0	0	0	0	4	143	0	0	0	0	7	6,244	2,147	0	0	0	250	4,074
153+00	50	96	0	0	0	0	5	160	0	0	0	0	8	6,404	2,139	0	0	0	256	4,242
153+50	50	110	0	45	0	0	6	191	0	42	0	0	10	6,595	2,182	0	0	0	264	4,390
154+00	50	95	0	77	0	0	5	190	0	113	0	0	10	6,785	2,314	0	0	0	271	4,448
154+50	50	85	0	75	0	0	4	166	0	140	0	0	8	6,952	2,481	0	0	0	278	4,448
155+00	50	86	0	77	0	0	4	158	0	140	0	0	8	7,110	2,648	0	0	0	284	4,439
155+50	50	82	0	93	0	0	4	156	0	157	0	0	8	7,266	2,837	0	0	0	291	4,407
156+00	50	76	0	104	0	0	4	147	0	182	0	0	7	7,413	3,057	0	0	0	297	4,333
156+50	50	83	0	120	0	0	4	148	0	207	0	0	7	7,561	3,308	0	0	0	302	4,230
157+00	50	82	0	118	0	0	4	153	0	220	0	0	8	7,714	3,575	0	0	0	309	4,116
157+50	50	85	0	121	0	0	4	154	0	221	0	0	8	7,868	3,843	0	0	0	315	4,002
158+00	50	85	0	105	0	0	4	158	0	210	0	0	8	8,026	4,098	0	0	0	321	3,905
158+50	50	133	0	56	0	0	7	202	0	149	0	0	10	8,228	4,274	0	0	0	329	3,931
159+00	50	133	0	48	0	0	7	245	0	96	0	0	12	8,473	4,382	0	0	0	339	4,068
159+50	50	115	0	39	0	0	6	230	0	80	0	0	11	8,703	4,471	0	0	0	348	4,209
160+00	50	126	0	20	0	0	6	224	0	54	0	0	11	8,926	4,528	0	0	0	357	4,376
160+50	50	130	0	12	0	0	6	237	0	30	0	0	12	9,163	4,554	0	0	0	367	4,587
161+00	50	136	0	8	0	0	7	246	0	19	0	0	12	9,409	4,565	0	0	0	376	4,821
161+50	50	151	0	3	0	0	8	265	0	10	0	0	13	9,674	4,564	0	0	0	387	5,087
162+00	50	171	0	0	0	0	9	298	0	3	0	0	15	9,972	4,552	0	0	0	399	5,397
162+50	50	174	0	0	0	0	9	319	0	0	0	0	16	10,291	4,536	0	0	0	412	5,732
163+00	50	157	0	1	0	0	8	306	0	1	0	0	15	10,597	4,522	0	0	0	424	6,052
163+50	50	144	0	8	0	0	7	279	0	8	0	0	14	10,876	4,518	0	0	0	435	6,335
164+00	50	143	0	9	0	0	7	267	0	15	0	0	13	11,142	4,524	0	0	0	446	6,595
			SUBTOTAL					35,012	46	6,622	0	23,195	1,751							

DIVISION 3 (STA 110+63'WB' - STA 177+28'WB'): CTH PD (STAGE 3)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut (SF)	Salvaged/Unusable Pavement Material (SF)	Fill (SF)	Marsh Exc (SF)	Rock Exc (SF)	EBS (SF)	Cut Note 1 (CY)	Salvaged/Unusable Pavement Material Note 2 (CY)	Fill Note 3 (CY)	Marsh Exc (CY)	Rock Exc (CY)	EBS (CY)	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Reduced Marsh in Fill 0.60 Note 5	Expanded Rock Backfill 1.1	Reduced EBS In Fill 0.80 Note 6	Note 7
		PREVIOUS SHEET SUBTOTAL						**35,012**	**46**	**6,622**	**0**	**23,195**	**1,751**							
164+00		143	0	9	0	0	7													
164+50	50	146	0	14	0	0	7	268	0	21	0	0	13	268	13	0	0	0	11	255
165+00	50	138	0	26	0	0	7	262	0	37	0	0	13	530	46	0	0	0	21	484
165+50	50	116	0	26	0	0	6	235	0	48	0	0	12	765	94	0	0	0	31	671
166+00	50	111	0	23	0	0	6	211	0	45	0	0	11	975	140	0	0	0	39	835
166+50	50	108	0	23	0	0	5	204	0	43	0	0	10	1,179	183	0	0	0	47	996
167+00	50	102	0	27	0	0	5	195	0	47	0	0	10	1,374	232	0	0	0	55	1,142
167+50	50	87	0	42	0	0	4	175	0	64	0	0	9	1,548	303	0	0	0	62	1,245
168+00	50	78	0	71	0	0	4	153	0	105	0	0	8	1,701	426	0	0	0	68	1,275
168+50	50	69	0	0	0	0	3	136	0	66	0	0	7	1,837	501	0	0	0	73	1,336
169+00	50	82	0	0	0	0	4	140	0	0	0	0	7	1,977	494	0	0	0	79	1,483
169+50	50	95	1	2	0	0	5	165	1	2	0	0	8	2,142	489	0	0	0	86	1,652
170+00	50	120	1	0	0	0	6	200	2	2	0	0	10	2,342	481	0	0	0	94	1,857
170+50	50	118	1	0	0	0	6	221	2	0	0	0	11	2,562	470	0	0	0	102	2,086
171+00	50	128	1	0	0	0	6	227	2	0	0	0	11	2,790	459	0	0	0	112	2,323
171+50	50	129	1	0	0	0	6	237	2	0	0	0	12	3,027	447	0	0	0	121	2,569
172+00	50	120	1	0	0	0	6	231	2	0	0	0	12	3,258	435	0	0	0	130	2,809
172+50	50	126	1	0	0	0	6	228	2	0	0	0	11	3,485	424	0	0	0	139	3,046
173+00	50	98	1	1	0	0	5	207	2	1	0	0	10	3,693	415	0	0	0	148	3,259
173+50	50	102	1	0	0	0	5	185	2	2	0	0	9	3,878	408	0	0	0	155	3,449
174+00	50	82	0	0	0	0	4	170	1	0	0	0	9	4,049	400	0	0	0	162	3,627
174+50	50	85	0	0	0	0	4	155	0	0	0	0	8	4,203	392	0	0	0	168	3,789
175+00	50	105	1	0	0	0	5	176	1	0	0	0	9	4,380	384	0	0	0	175	3,973
175+50	50	102	1	0	0	0	5	192	2	0	0	0	10	4,572	374	0	0	0	183	4,173
176+00	50	104	1	0	0	0	5	191	2	0	0	0	10	4,763	364	0	0	0	191	4,371
176+50	50	105	1	0	0	0	5	193	2	0	0	0	10	4,956	355	0	0	0	198	4,571
177+00	50	102	1	0	0	0	5	191	2	0	0	0	10	5,147	345	0	0	0	206	4,769
177+28	28	83	1	0	0	0	4	95	1	0	0	0	5	5,242	340	0	0	0	210	4,868
								40,254	80	7,104	0	23,195	2,013							

DIVISION 3 (STA 10+22'DW' - STA 12+40'DW'): DRIVEWAY 122+00'DW' (STAGE 3)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut (SF)	Salvaged/Unusable Pavement Material (SF)	Fill (SF)	Marsh Exc (SF)	Rock Exc (SF)	EBS (SF)	Cut Note 1 (CY)	Salvaged/Unusable Pavement Material Note 2 (CY)	Fill Note 3 (CY)	Marsh Exc (CY)	Rock Exc (CY)	EBS (CY)	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Reduced Marsh in Fill 0.60 Note 5	Expanded Rock Backfill 1.1	Reduced EBS In Fill 0.80 Note 6	Note 7
10+22		22	0	2	0	0	1													
10+50	28	2	0	16	0	0	0	13	0	9	0	0	1	13	11	0	0	0	1	2
11+00	50	88	0	0	0	3	4	83	0	15	0	3	4	96	25	0	0	3	4	75
11+50	50	293	0	0	0	86	15	353	0	0	0	83	18	449	7	0	0	94	18	559
12+00	50	965	0	0	0	769	48	1,165	0	0	0	792	58	1,613	-51	0	0	965	65	2,871
12+40	40	176	0	0	0	1,409	9	847	0	0	0	1,617	42	2,460	-94	0	0	2,744	98	5,983
								2,460	0	24	0	2,494	123							

DIVISION 3 (STA 200+50'AT' - STA 207+25'AT'): ICE AGE TRAIL (STAGE 3)

STATION	Distance	Area: Cut (SF)	Area: Salvaged/Unusable Pavement Material (SF)	Area: Fill (SF)	Area: Marsh Exc (SF)	Area: Rock Exc (SF)	Area: EBS (SF)	Incremental Volume (Unadjusted): Cut Note 1 (CY)	Incremental Volume (Unadjusted): Salvaged/Unusable Pavement Material Note 2 (CY)	Incremental Volume (Unadjusted): Fill Note 3 (CY)	Incremental Volume (Unadjusted): Marsh Exc (CY)	Incremental Volume (Unadjusted): Rock Exc (CY)	Incremental Volume (Unadjusted): EBS (CY)	Cumulative Vol (CY): Cut 1.00 Note 1	Cumulative Vol (CY): Expanded Fill 1.25	Cumulative Vol (CY): Expanded Marsh Backfill 1.50 Note 4	Cumulative Vol (CY): Reduced Marsh in Fill 0.60 Note 5	Cumulative Vol (CY): Expanded Rock Backfill 1.1	Cumulative Vol (CY): Reduced EBS In Fill 0.80 Note 6	Mass Ordinate Note 7
200+50		9	0	0	0	0	0													
201+00	50	9	0	5	0	0	0	17	0	5	0	0	1	17	6	0	0	0	1	11
201+50	50	55	0	0	0	0	3	59	0	5	0	0	3	76	9	0	0	0	3	67
202+00	50	130	0	0	0	0	6	171	0	0	0	0	9	247	0	0	0	0	10	247
202+50	50	202	0	0	0	0	10	307	0	0	0	0	15	554	-15	0	0	0	22	570
203+00	50	369	0	0	0	0	18	529	0	0	0	0	26	1,083	-42	0	0	0	43	1,125
203+50	50	493	0	0	0	0	25	799	0	0	0	0	40	1,882	-82	0	0	0	75	1,963
204+00	50	575	0	0	0	0	29	989	0	0	0	0	49	2,871	-131	0	0	0	115	3,002
204+50	50	537	0	0	0	0	27	1,029	0	0	0	0	51	3,900	-183	0	0	0	156	4,082
205+00	50	630	0	0	0	0	32	1,081	0	0	0	0	54	4,980	-237	0	0	0	199	5,217
205+50	50	623	0	0	0	0	31	1,161	0	0	0	0	58	6,141	-295	0	0	0	246	6,436
206+00	50	448	0	0	0	0	22	992	0	0	0	0	50	7,133	-344	0	0	0	285	7,477
206+50	50	276	0	0	0	0	14	670	0	0	0	0	34	7,803	-378	0	0	0	312	8,181
207+00	50	1,018	0	0	0	0	51	1,199	0	0	0	0	60	9,002	-438	0	0	0	360	9,440
207+25	25	1,142	0	0	0	0	57	1,019	0	0	0	0	51	10,021	-489	0	0	0	401	10,510
								10,021	0	10	0	0	501							

DIVISION 3 (STA 31+55'C' - STA 32+34'C'): RAMP C (STAGE 3)

STATION	Distance	Area: Cut (SF)	Area: Salvaged/Unusable Pavement Material (SF)	Area: Fill (SF)	Area: Marsh Exc (SF)	Area: Rock Exc (SF)	Area: EBS (SF)	Incremental Volume (Unadjusted): Cut Note 1 (CY)	Incremental Volume (Unadjusted): Salvaged/Unusable Pavement Material Note 2 (CY)	Incremental Volume (Unadjusted): Fill Note 3 (CY)	Incremental Volume (Unadjusted): Marsh Exc (CY)	Incremental Volume (Unadjusted): Rock Exc (CY)	Incremental Volume (Unadjusted): EBS (CY)	Cumulative Vol (CY): Cut 1.00 Note 1	Cumulative Vol (CY): Expanded Fill 1.25	Cumulative Vol (CY): Expanded Marsh Backfill 1.50 Note 4	Cumulative Vol (CY): Reduced Marsh in Fill 0.60 Note 5	Cumulative Vol (CY): Expanded Rock Backfill 1.1	Cumulative Vol (CY): Reduced EBS In Fill 0.80 Note 6	Mass Ordinate Note 7
31+55		0	0	0	0	0	0													
32+00	45	79	0	0	0	0	4	66	0	0	0	0	3	66	-3	0	0	0	3	69
32+34	34	292	0	0	0	0	15	235	0	0	0	0	12	301	-15	0	0	0	12	316
								301	0	0	0	0	15							

DIVISION 3 (STA 23+25'HP' - STA 24+72'HP'): SOUTH HIGH POINT ROAD (STAGE 3)

STATION	Distance	Area: Cut (SF)	Area: Salvaged/Unusable Pavement Material (SF)	Area: Fill (SF)	Area: Marsh Exc (SF)	Area: Rock Exc (SF)	Area: EBS (SF)	Incremental Volume (Unadjusted): Cut Note 1 (CY)	Incremental Volume (Unadjusted): Salvaged/Unusable Pavement Material Note 2 (CY)	Incremental Volume (Unadjusted): Fill Note 3 (CY)	Incremental Volume (Unadjusted): Marsh Exc (CY)	Incremental Volume (Unadjusted): Rock Exc (CY)	Incremental Volume (Unadjusted): EBS (CY)	Cumulative Vol (CY): Cut 1.00 Note 1	Cumulative Vol (CY): Expanded Fill 1.25	Cumulative Vol (CY): Expanded Marsh Backfill 1.50 Note 4	Cumulative Vol (CY): Reduced Marsh in Fill 0.60 Note 5	Cumulative Vol (CY): Expanded Rock Backfill 1.1	Cumulative Vol (CY): Reduced EBS In Fill 0.80 Note 6	Mass Ordinate Note 7
23+25		107	0	1	0	0	5													
23+50	25	36	0	1	0	0	2	66	0	1	0	0	3	66	-2	0	0	0	3	69
24+00	50	36	0	1	0	0	2	67	0	1	0	0	3	133	-4	0	0	0	5	137
24+50	50	36	0	1	0	0	2	67	0	2	0	0	3	200	-5	0	0	0	8	205
24+72	22	48	0	0	0	0	2	34	0	1	0	0	2	234	-6	0	0	0	9	240
								234	0	5	0	0	12							

DIVISION 3 (STA 41+00'SP' - STA 41+67'SP'): SNOWY PARKWAY (STAGE 3)

		Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						
			Salvaged/Unusable						Salvaged/Unusable							Expanded	Expanded Marsh	Reduced Marsh	Expanded Rock	Reduced EBS	Mass
STATION	Distance	Cut	Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut Note 1	Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cut 1.00 Note 1	Fill 1.25	Backfill 1.50 Note 4	in Fill 0.60 Note 5	Backfill 1.1	In Fill 0.80 Note 6	Ordinate Note 7
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)							
41+00		115	0	0	0	0	6													
41+50	50	189	0	0	0	0	9	282	0	0	0	0	14	282	-14	0	0	0	11	296
41+67	17	305	0	0	0	0	15	153	0	0	0	0	8	435	-22	0	0	0	17	456
								435	0	0	0	0	22							

DIVISION 3 (STA 71+15'TS' - STA 71+84'TS'): TANGLEWOOD DRIVE (STAGE 3)

		Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						
			Salvaged/Unusable						Salvaged/Unusable							Expanded	Expanded Marsh	Reduced Marsh	Expanded Rock	Reduced EBS	Mass
STATION	Distance	Cut	Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut Note 1	Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cut 1.00 Note 1	Fill 1.25	Backfill 1.50 Note 4	in Fill 0.60 Note 5	Backfill 1.1	In Fill 0.80 Note 6	Ordinate Note 7
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)							
71+15		21	3	0	0	0	1													
71+50	35	23	3	0	0	0	1	29	3	0	0	0	1	29	-1	0	0	0	1	27
71+84	34	161	3	0	0	0	8	115	3	0	0	0	6	144	-7	0	0	0	6	144
								144	7	0	0	0	7							

DIVISION 3 (STA 71+15'TS' - STA 71+84'TS'): TANGLEWOOD DRIVE (STAGE 3)

		Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						
			Salvaged/Unusable						Salvaged/Unusable							Expanded	Expanded Marsh	Reduced Marsh	Expanded Rock	Reduced EBS	Mass
STATION	Distance	Cut	Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut Note 1	Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cut 1.00 Note 1	Fill 1.25	Backfill 1.50 Note 4	in Fill 0.60 Note 5	Backfill 1.1	In Fill 0.80 Note 6	Ordinate Note 7
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)							
71+15		21	3	0	0	0	1													
71+50	35	23	3	0	0	0	1	29	3	0	0	0	1	29	-1	0	0	0	1	27
71+84	34	161	3	0	0	0	8	115	3	0	0	0	6	144	-7	0	0	0	6	144
								144	7	0	0	0	7							

DIVISION 3 (STA 92+25'SD' - STA 92+81'SD'): STONECREEK DRIVE (STAGE 3)

		Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						
			Salvaged/Unusable						Salvaged/Unusable							Expanded	Expanded Marsh	Reduced Marsh	Expanded Rock	Reduced EBS	Mass
STATION	Distance	Cut	Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut Note 1	Pavement Material Note 2	Fill Note 3	Marsh Exc	Rock Exc	EBS	Cut 1.00 Note 1	Fill 1.25	Backfill 1.50 Note 4	in Fill 0.60 Note 5	Backfill 1.1	In Fill 0.80 Note 6	Ordinate Note 7
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)							
92+25		127	3	0	0	0	6													
92+50	25	132	3	4	0	0	7	120	2	2	0	0	6	120	-4	0	0	0	5	122
92+81	31	302	3	0	0	0	15	249	3	2	0	0	12	370	-13	0	0	0	15	378
								370	5	4	0	0	18							

DIVISION 3 (STA 20+26'MD' - STA 21+34'MD'): MAPLE GROVE DRIVE (STAGE 3)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Salvaged/Unusable Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
								Note 1	Note 2	Note 3				1.00	1.25	1.50	0.60	1.1	0.80	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	Note 1		Note 4	Note 5		Note 6	Note 7
20+26		14	1	0	0	0	1													
20+50	24	29	1	0	0	0	1	19	1	0	0	0	1	19	-1	0	0	0	1	19
21+00	50	73	1	0	0	0	4	94	2	0	0	0	5	113	-5	0	0	0	5	115
21+34	34	144	0	0	0	0	7	135	1	0	0	0	7	248	-12	0	0	0	10	255
								248	4	0	0	0	12							

DIVISION 3 (STA 22+02'MD' - STA 24+61'MD'): MAPLE GROVE DRIVE (STAGE 3)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Salvaged/Unusable Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
								Note 1	Note 2	Note 3				1.00	1.25	1.50	0.60	1.1	0.80	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	Note 1		Note 4	Note 5		Note 6	Note 7
22+02		163	0	0	0	0	8													
22+50	48	94	1	0	0	0	5	231	1	0	0	0	12	231	-12	0	0	0	9	241
23+00	50	76	1	0	0	0	4	158	2	0	0	0	8	388	-19	0	0	0	16	404
23+50	50	66	1	0	0	0	3	132	2	0	0	0	7	520	-26	0	0	0	21	540
24+00	50	64	1	0	0	0	3	120	2	0	0	0	6	640	-32	0	0	0	26	664
24+50	50	27	1	0	0	0	1	84	2	0	0	0	4	724	-36	0	0	0	29	749
24+61	11	0	1	0	0	0	0	6	1	0	0	0	0	730	-36	0	0	0	29	755
								730	11	0	0	0	36							

DIVISION 4 (STA 132+00'WB' - STA 145+81'WB'): CTH PD (STAGE 4)

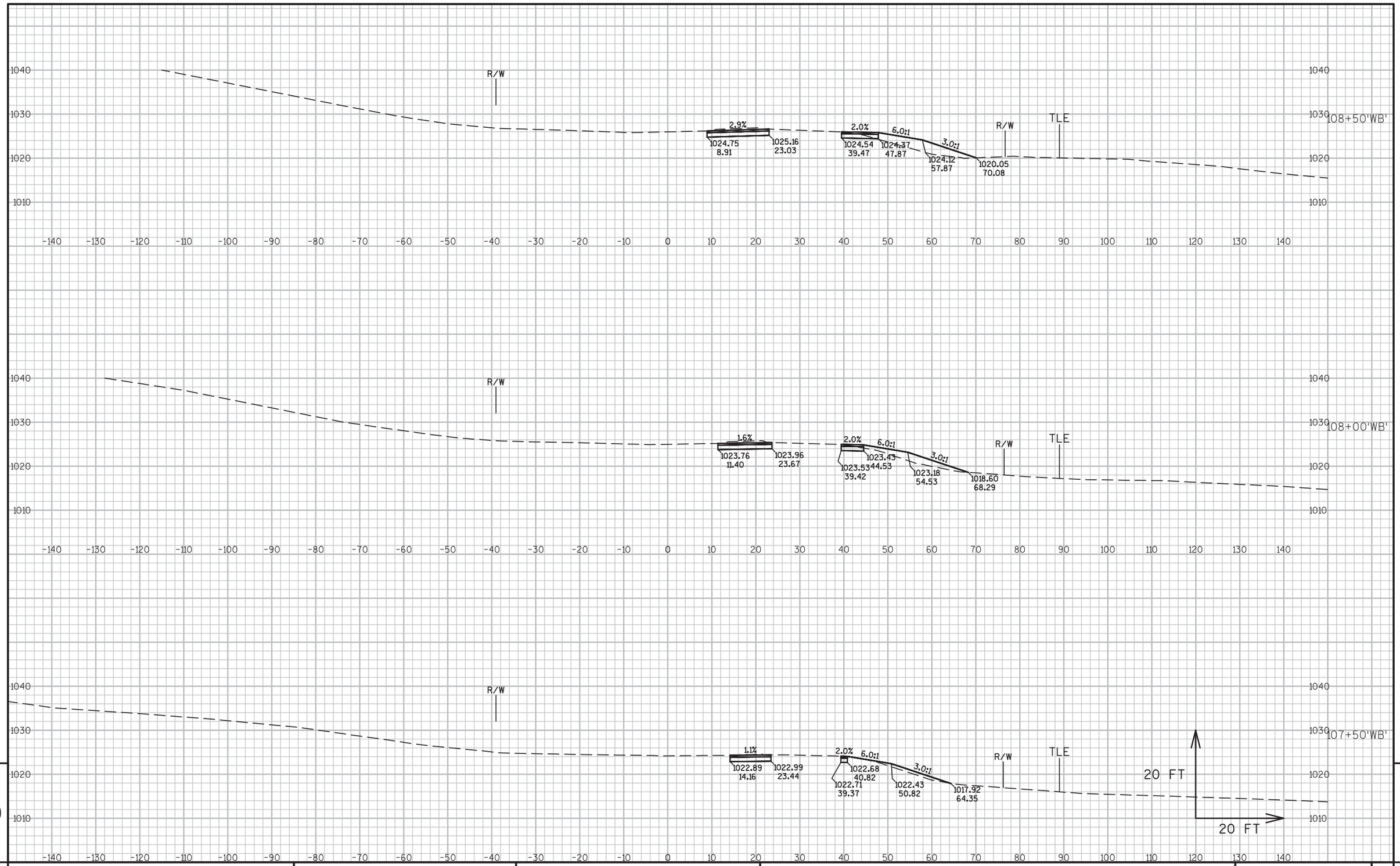
STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	(CY)	(CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
132+00		69	0	0	0	0	3													
132+50	50	68	0	0	0	0	3	126	0	0	0	0	6	126	-6	0	0	0	5	133
133+00	50	77	0	0	0	0	4	134	0	0	0	0	7	260	-13	0	0	0	10	273
133+50	50	73	0	0	0	0	4	139	0	0	0	0	7	399	-20	0	0	0	16	419
134+00	50	67	0	0	0	0	3	130	0	0	0	0	7	529	-26	0	0	0	21	556
134+50	50	66	0	0	0	0	3	123	0	0	0	0	6	653	-33	0	0	0	26	685
135+00	50	56	0	0	0	0	3	113	0	0	0	0	6	765	-38	0	0	0	31	804
135+50	50	48	0	0	0	0	2	96	0	0	0	0	5	862	-43	0	0	0	34	905
136+00	50	40	0	0	0	0	2	81	0	0	0	0	4	942	-47	0	0	0	38	989
136+50	50	32	0	2	0	0	2	66	0	2	0	0	3	1,009	-48	0	0	0	40	1,056
137+00	50	19	0	11	0	0	1	48	0	12	0	0	2	1,056	-35	0	0	0	42	1,091
137+50	50	9	0	14	0	0	0	26	0	23	0	0	1	1,082	-7	0	0	0	43	1,089
138+00	50	8	0	14	0	0	0	16	0	26	0	0	1	1,098	25	0	0	0	44	1,073
138+50	50	9	0	12	0	0	0	16	0	24	0	0	1	1,113	55	0	0	0	45	1,059
139+00	50	11	0	10	0	0	1	18	0	20	0	0	1	1,132	79	0	0	0	45	1,052
139+50	50	11	0	8	0	0	1	20	0	17	0	0	1	1,152	99	0	0	0	46	1,053
140+00	50	11	0	6	0	0	1	20	0	13	0	0	1	1,172	115	0	0	0	47	1,057
140+50	50	12	0	4	0	0	1	22	0	10	0	0	1	1,194	126	0	0	0	48	1,068
141+00	50	11	0	3	0	0	1	22	0	7	0	0	1	1,216	133	0	0	0	49	1,083
141+50	50	10	0	4	0	0	1	20	0	7	0	0	1	1,236	141	0	0	0	49	1,095
142+00	50	11	0	7	0	0	1	19	0	10	0	0	1	1,255	152	0	0	0	50	1,103
142+50	50	51	0	0	0	0	3	57	0	6	0	0	3	1,312	157	0	0	0	52	1,155
143+00	50	43	0	0	0	0	2	86	0	0	0	0	4	1,398	153	0	0	0	56	1,245
143+50	50	41	0	0	0	0	2	78	0	0	0	0	4	1,476	149	0	0	0	59	1,327
144+00	50	42	0	0	0	0	2	77	0	0	0	0	4	1,553	146	0	0	0	62	1,407
144+50	50	43	0	0	0	0	2	79	0	0	0	0	4	1,632	142	0	0	0	65	1,490
145+00	50	41	0	0	0	0	2	78	0	0	0	0	4	1,709	138	0	0	0	68	1,572
145+50	50	24	0	6	0	0	1	60	0	5	0	0	3	1,770	141	0	0	0	71	1,628
145+81	31	11	0	13	0	0	1	20	0	11	0	0	1	1,789	154	0	0	0	72	1,635
								1,789	0	195	0	0	89							

DIVISION 4 (STA 150+00'WB' - STA 156+45'WB'): CTH PD (STAGE 4)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	Reduced Marsh in Fill	Expanded Rock Backfill	Reduced EBS In Fill	
		(SF)	(SF)	(SF)	(SF)	(SF)	(SF)	Note 1 (CY)	Note 2 (CY)	Note 3 (CY)	(CY)	(CY)	(CY)	1.00 Note 1	1.25	1.50 Note 4	0.60 Note 5	1.1	0.80 Note 6	Note 7
150+00		56	0	0	0	0	3													
150+50	50	58	0	0	0	0	3	106	0	0	0	0	5	106	-5	0	0	0	4	111
151+00	50	55	0	0	0	0	3	105	0	0	0	0	5	211	-11	0	0	0	8	221
151+50	50	52	0	0	0	0	3	99	0	0	0	0	5	310	-15	0	0	0	12	325
152+00	50	51	0	0	0	0	3	96	0	0	0	0	5	406	-20	0	0	0	16	426
152+50	50	51	0	0	0	0	3	95	0	0	0	0	5	500	-25	0	0	0	20	525
153+00	50	55	0	0	0	0	3	98	0	0	0	0	5	598	-30	0	0	0	24	628
153+50	50	53	0	0	0	0	3	100	0	0	0	0	5	699	-35	0	0	0	28	734
154+00	50	55	0	0	0	0	3	100	0	0	0	0	5	798	-40	0	0	0	32	838
154+50	50	55	0	0	0	0	3	101	0	0	0	0	5	900	-45	0	0	0	36	945
155+00	50	52	0	0	0	0	3	99	0	0	0	0	5	999	-50	0	0	0	40	1,049
155+50	50	49	0	0	0	0	2	94	0	0	0	0	5	1,093	-55	0	0	0	44	1,148
156+00	50	29	0	2	0	0	1	73	0	2	0	0	4	1,166	-56	0	0	0	47	1,221
156+45	45	13	0	6	0	0	1	35	0	7	0	0	2	1,200	-48	0	0	0	48	1,249
								1,200	0	9	0	0	60							

DIVISION 4 (STA 165+29'WB' - STA 180+99'WB'): CTH PD (STAGE 4)

STATION	Distance	Area						Incremental Volume (Unadjusted)						Cumulative Vol (CY)						Mass Ordinate
		Cut (SF)	Salvaged/Unusable Pavement Material (SF)	Fill (SF)	Marsh Exc (SF)	Rock Exc (SF)	EBS (SF)	Cut Note 1 (CY)	Salvaged/Unusable Pavement Material Note 2 (CY)	Fill Note 3 (CY)	Marsh Exc (CY)	Rock Exc (CY)	EBS (CY)	Cut 1.00 Note 1	Expanded Fill 1.25	Expanded Marsh Backfill 1.50 Note 4	Reduced Marsh in Fill 0.60 Note 5	Expanded Rock Backfill 1.1	Reduced EBS In Fill 0.80 Note 6	
165+29		19	0	6	0	0	1													
165+50	21	27	0	5	0	0	1	18	0	5	0	0	1	18	5	0	0	0	1	13
166+00	50	44	0	0	0	0	2	66	0	5	0	0	3	84	8	0	0	0	3	76
166+50	50	47	0	0	0	0	2	84	0	1	0	0	4	168	5	0	0	0	7	163
167+00	50	46	0	0	0	0	2	86	0	0	0	0	4	254	1	0	0	0	10	253
167+50	50	42	0	0	0	0	2	82	0	0	0	0	4	336	-3	0	0	0	13	339
168+00	50	40	0	0	0	0	2	76	0	0	0	0	4	412	-7	0	0	0	16	419
168+50	50	57	0	0	0	0	3	89	0	0	0	0	4	501	-12	0	0	0	20	512
169+00	50	57	0	0	0	0	3	105	0	0	0	0	5	606	-17	0	0	0	24	623
169+50	50	34	0	2	0	0	2	84	0	2	0	0	4	690	-19	0	0	0	28	709
170+00	50	36	0	1	0	0	2	65	0	3	0	0	3	755	-18	0	0	0	30	773
170+50	50	39	0	0	0	0	2	69	0	1	0	0	3	824	-21	0	0	0	33	845
171+00	50	46	0	0	0	0	2	78	0	0	0	0	4	903	-24	0	0	0	36	927
171+50	50	41	0	0	0	0	2	81	0	0	0	0	4	983	-28	0	0	0	39	1,011
172+00	50	21	0	5	0	0	1	58	0	5	0	0	3	1,041	-25	0	0	0	42	1,066
172+50	50	15	0	1	0	0	1	34	0	6	0	0	2	1,075	-19	0	0	0	43	1,095
173+00	50	14	0	3	0	0	1	27	0	4	0	0	1	1,102	-16	0	0	0	44	1,118
173+50	50	14	0	2	0	0	1	26	0	5	0	0	1	1,128	-12	0	0	0	45	1,140
174+00	50	18	0	8	0	0	1	30	0	10	0	0	1	1,158	-1	0	0	0	46	1,159
174+50	50	57	0	0	0	0	3	69	0	7	0	0	3	1,227	5	0	0	0	49	1,222
175+00	50	55	0	0	0	0	3	103	0	0	0	0	5	1,330	0	0	0	0	53	1,331
175+50	50	51	0	0	0	0	3	98	0	0	0	0	5	1,428	-5	0	0	0	57	1,433
176+00	50	51	0	0	0	0	3	94	0	0	0	0	5	1,522	-10	0	0	0	61	1,532
176+50	50	53	0	0	0	0	3	96	0	0	0	0	5	1,618	-15	0	0	0	65	1,633
177+00	50	52	0	0	0	0	3	97	0	0	0	0	5	1,715	-20	0	0	0	69	1,735
177+50	50	41	0	3	0	0	2	86	0	3	0	0	4	1,801	-20	0	0	0	72	1,821
178+00	50	25	0	4	0	0	1	61	0	7	0	0	3	1,862	-15	0	0	0	74	1,876
178+50	50	25	0	5	0	0	1	46	0	9	0	0	2	1,907	-6	0	0	0	76	1,913
179+00	50	24	0	6	0	0	1	45	0	10	0	0	2	1,953	4	0	0	0	78	1,949
179+50	50	25	0	3	0	0	1	46	0	8	0	0	2	1,998	11	0	0	0	80	1,987
180+00	50	25	0	1	0	0	1	47	0	4	0	0	2	2,045	14	0	0	0	82	2,031
180+50	50	26	0	0	0	0	1	47	0	1	0	0	2	2,093	13	0	0	0	84	2,080
180+99	49	20	0	0	0	0	1	41	0	0	0	0	2	2,134	11	0	0	0	85	2,123
								2,134	0	94	0	0	107							



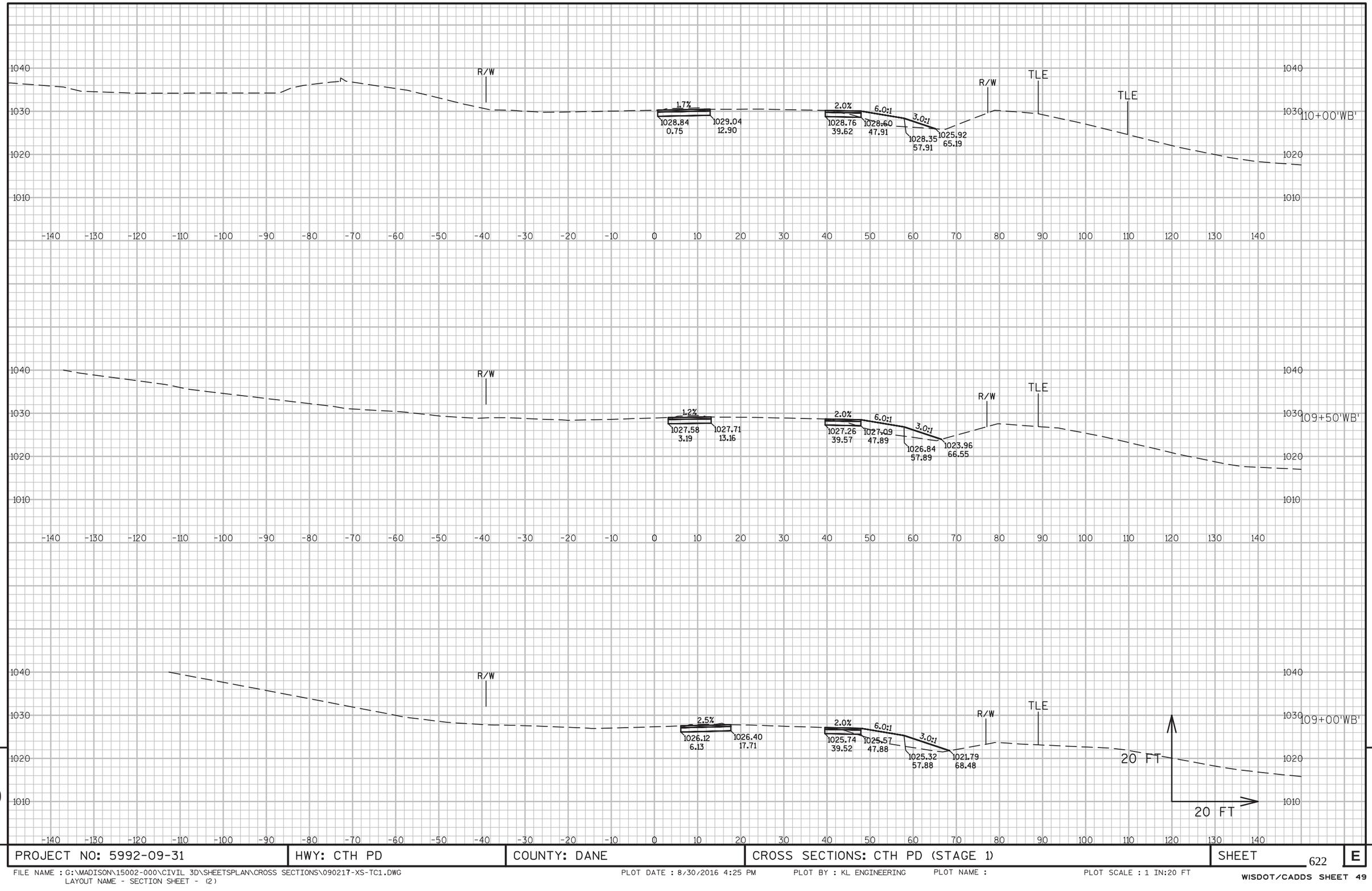
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 621	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (1)

PLOT DATE : 8/30/2016 4:24 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

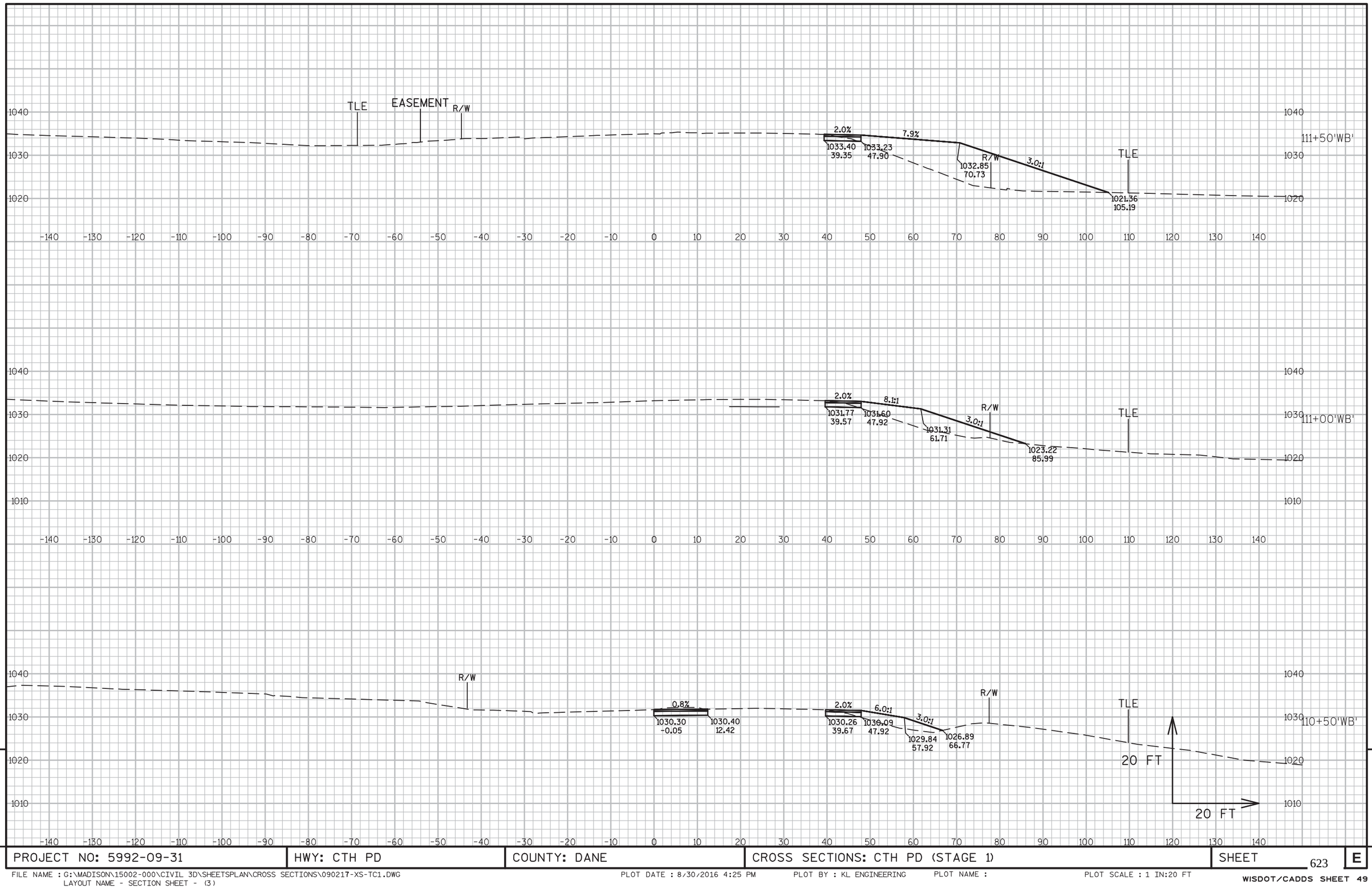
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 622	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (2)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



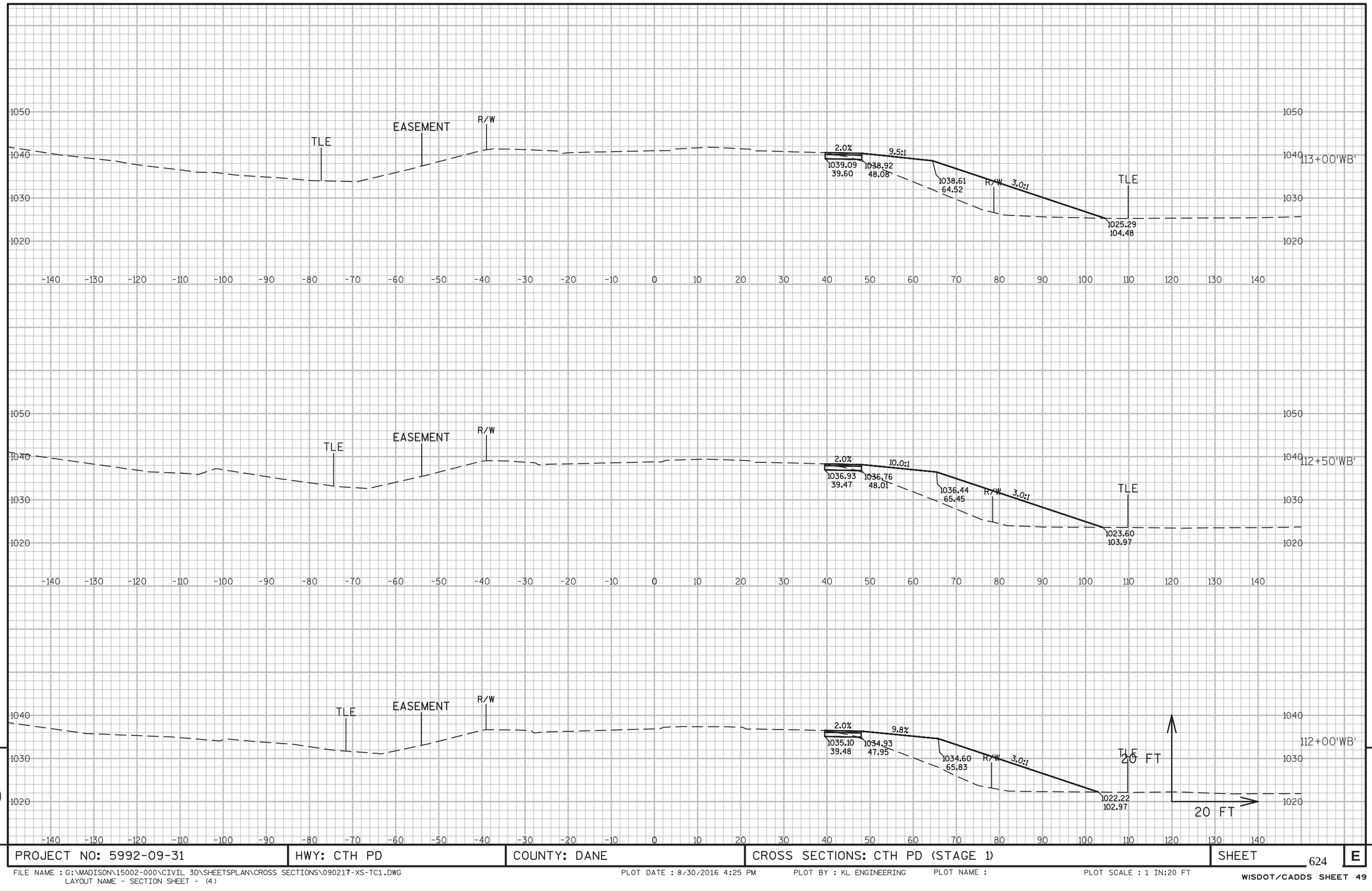
9 9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 623	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (3)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



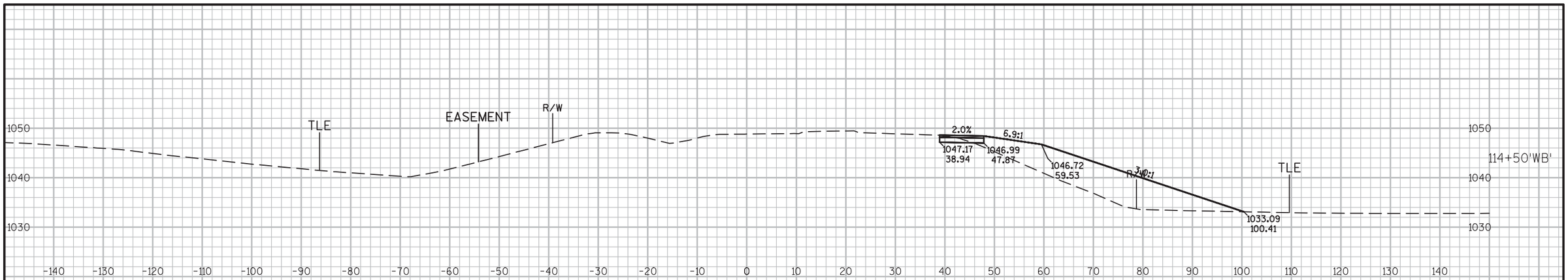
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 624	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (4)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT







9

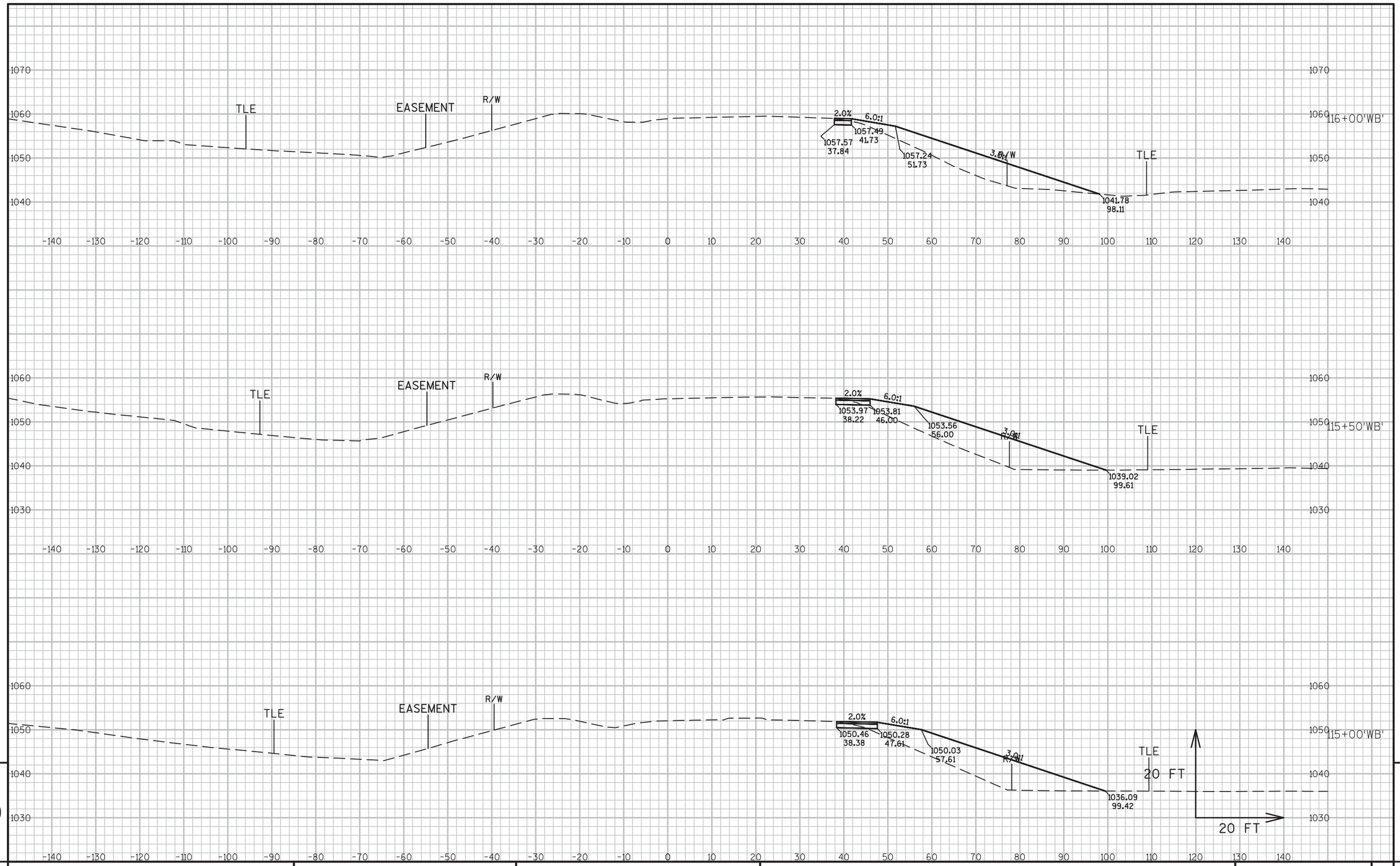
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 625	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (5)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

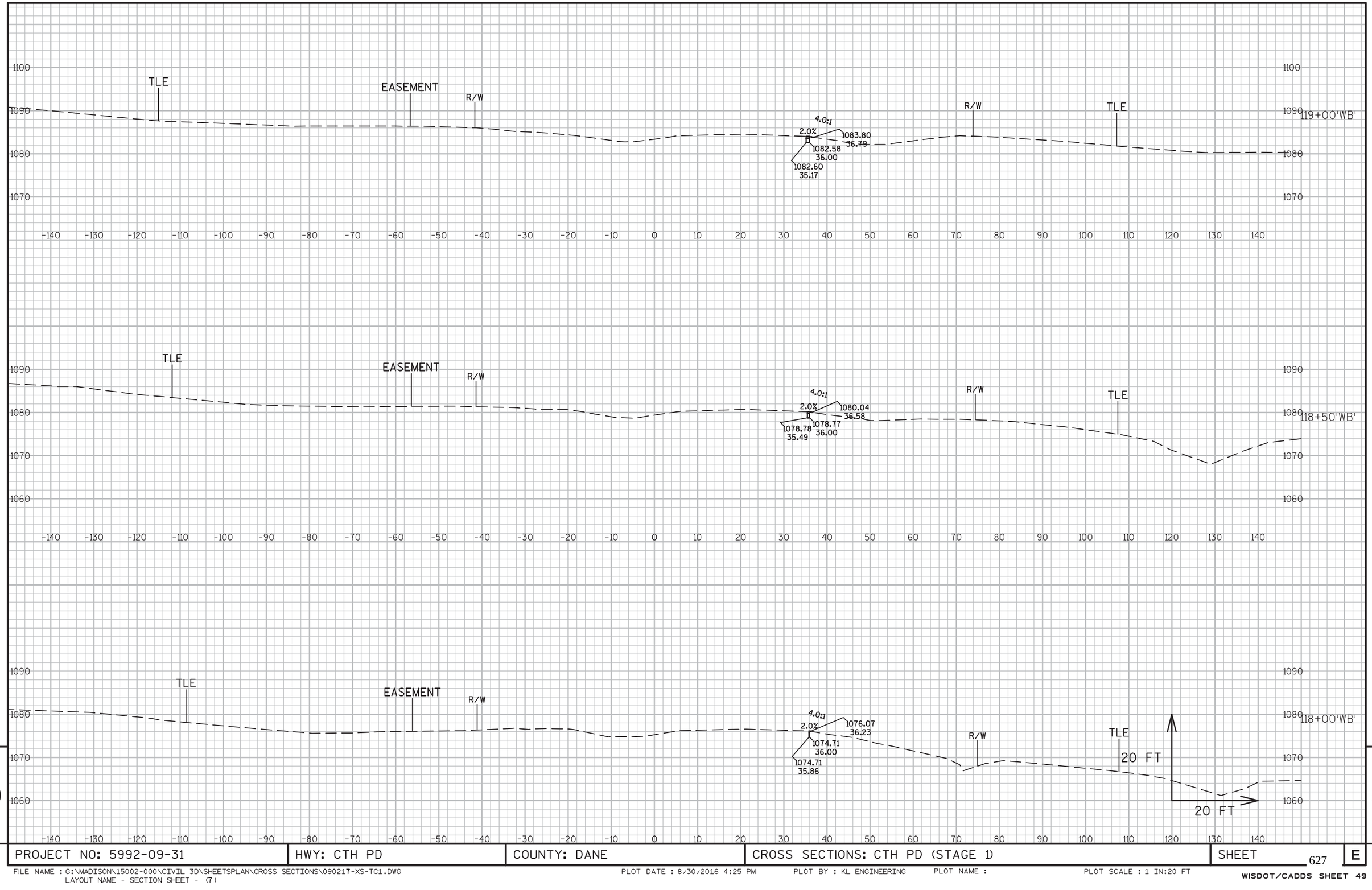


PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 626	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (6)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

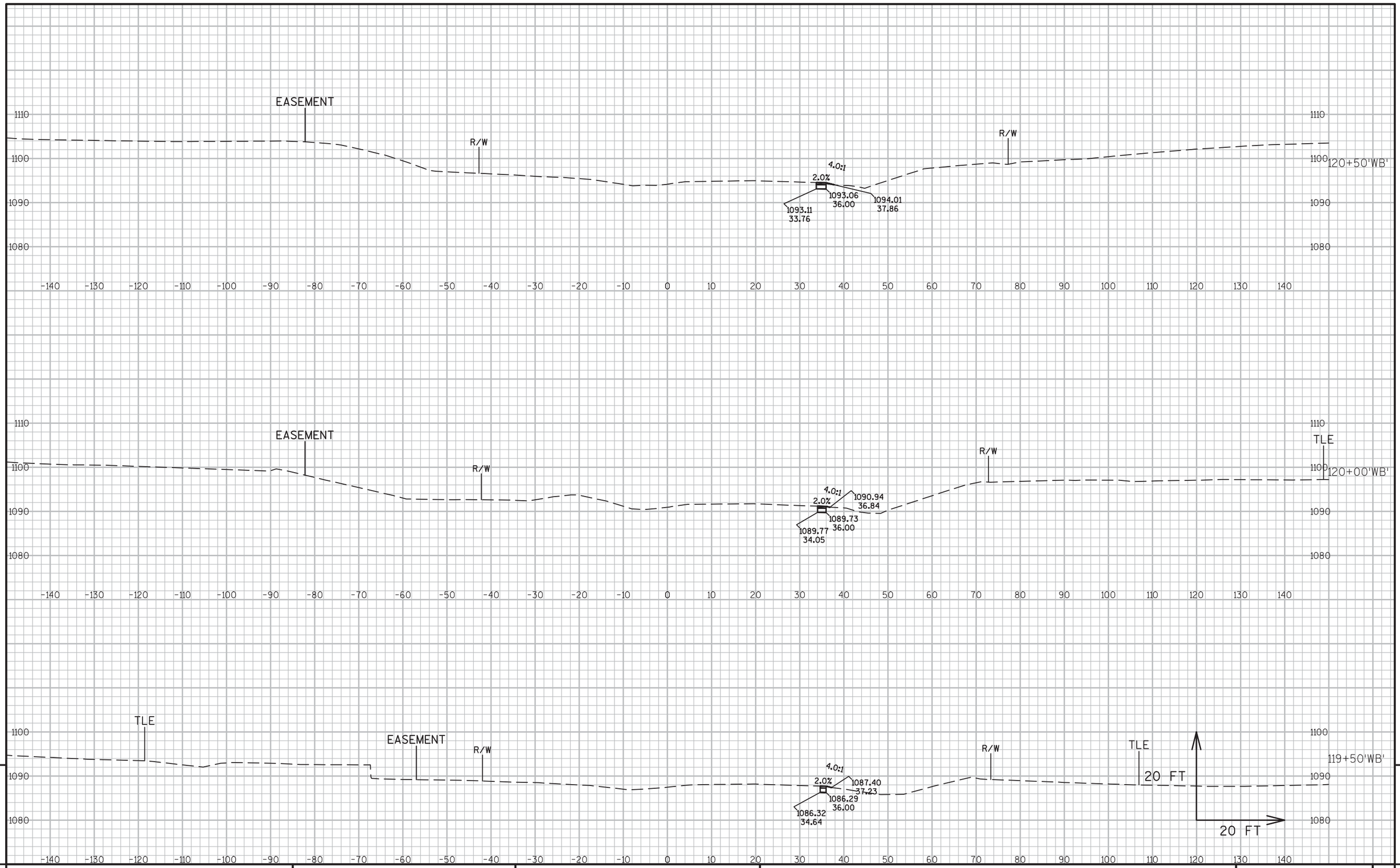
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 627	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (7)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



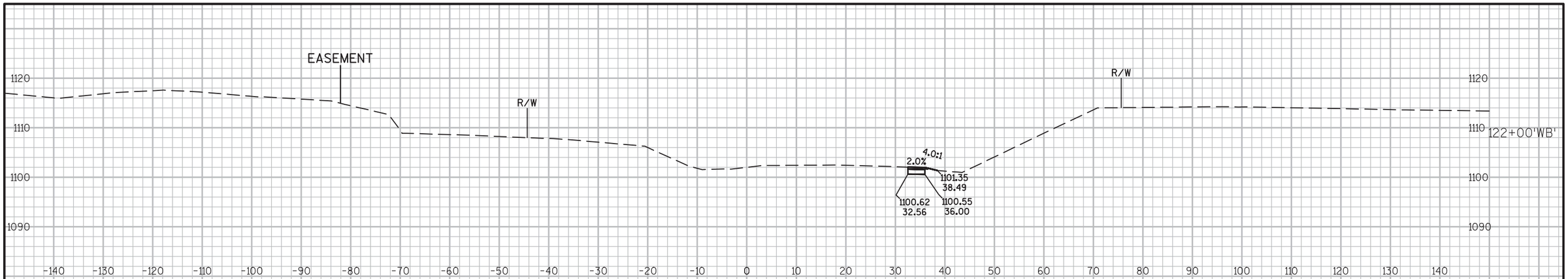
9

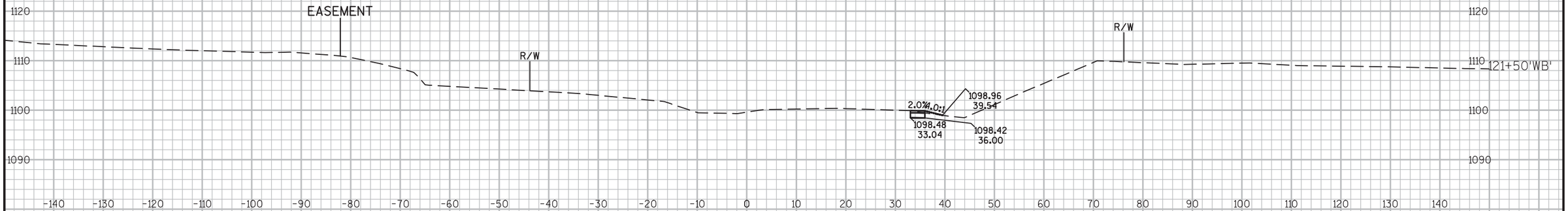
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 628	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (8)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT







9

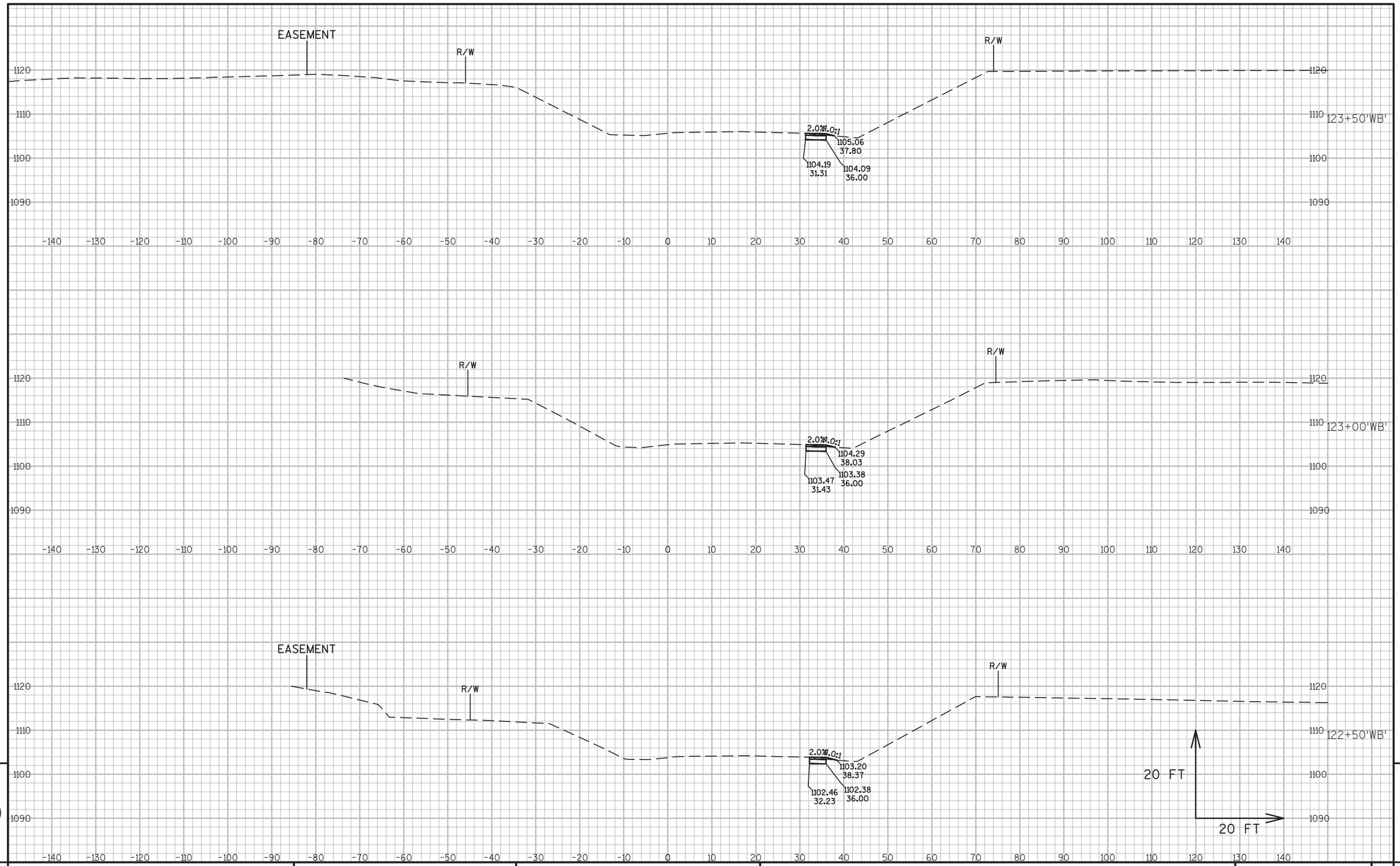
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 629	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (9)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



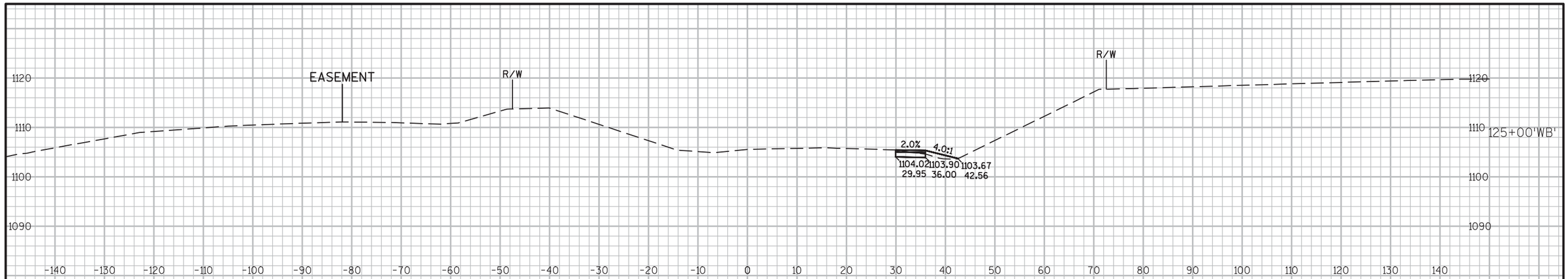
9

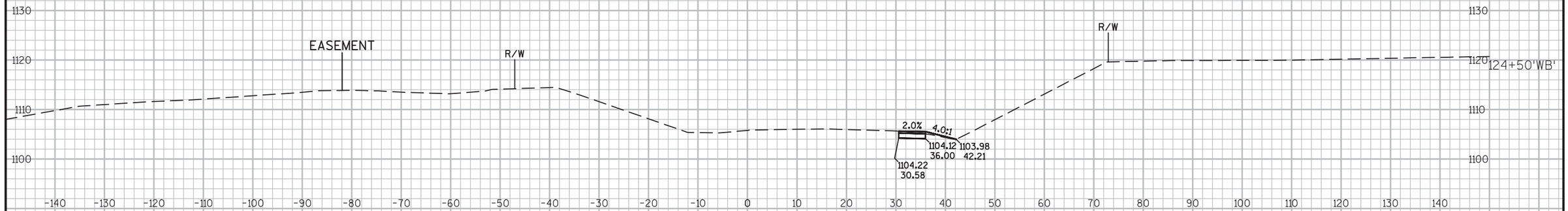
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 630	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (10)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT







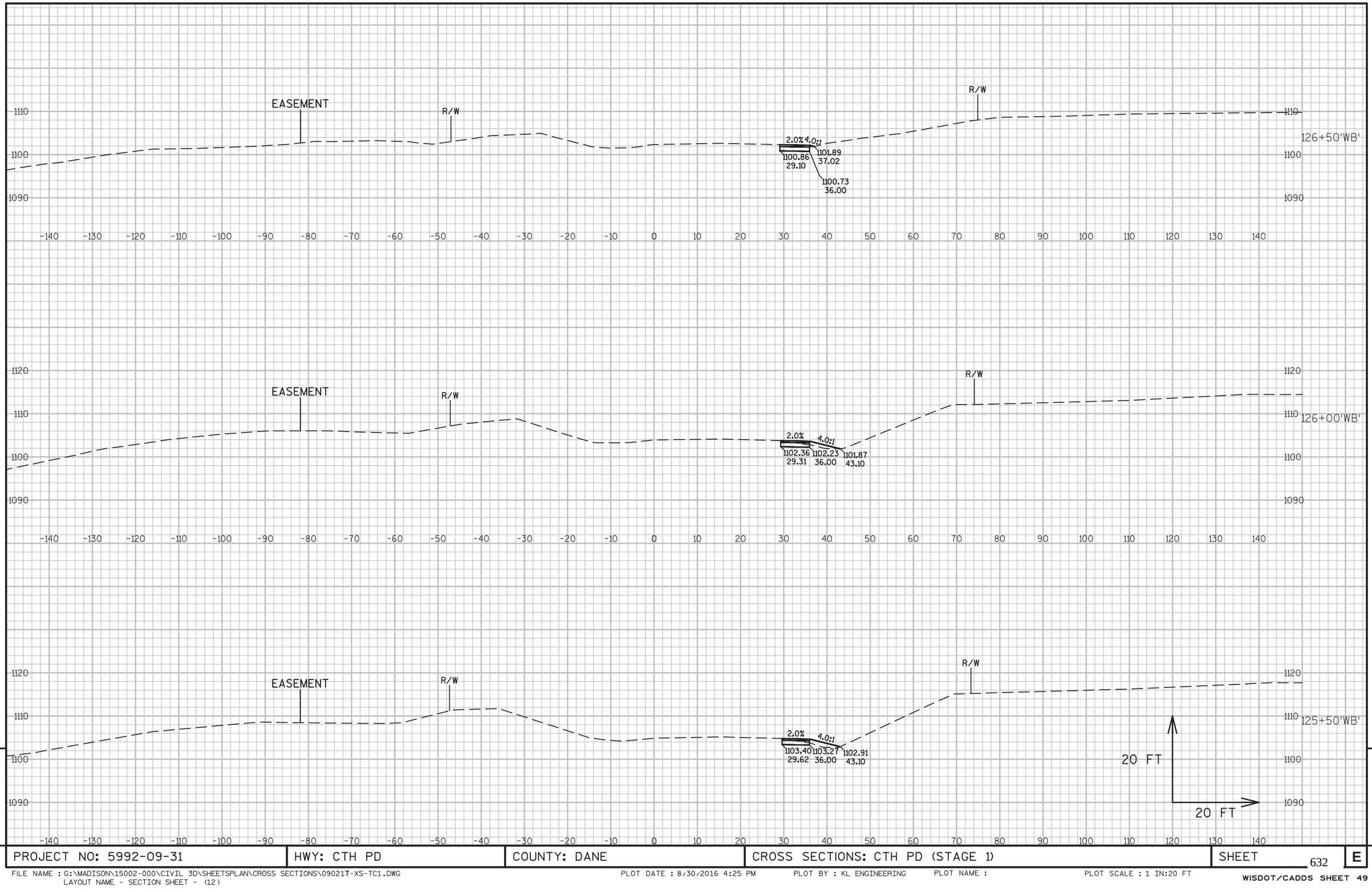
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 631	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (11)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

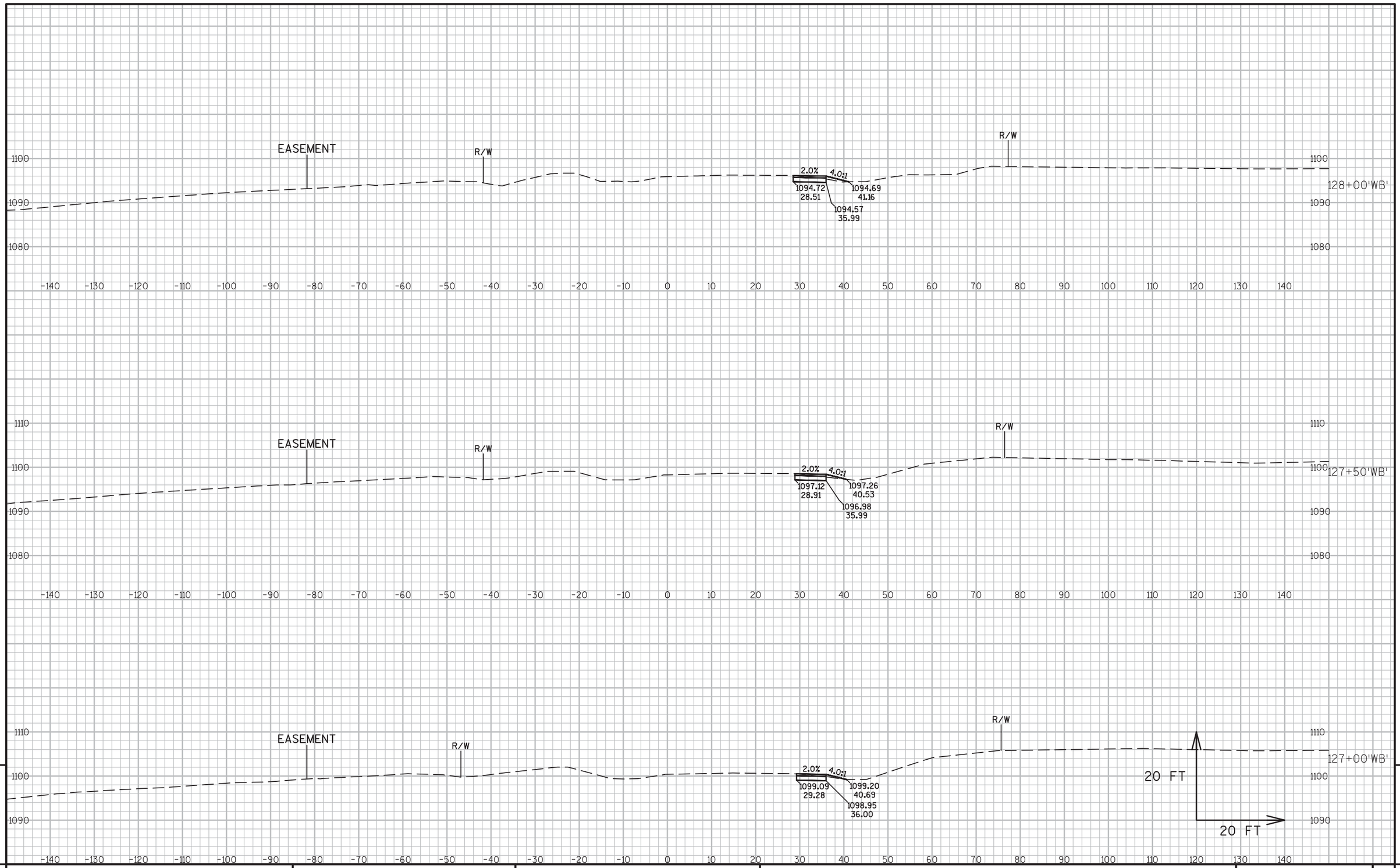


PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 632	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (12)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



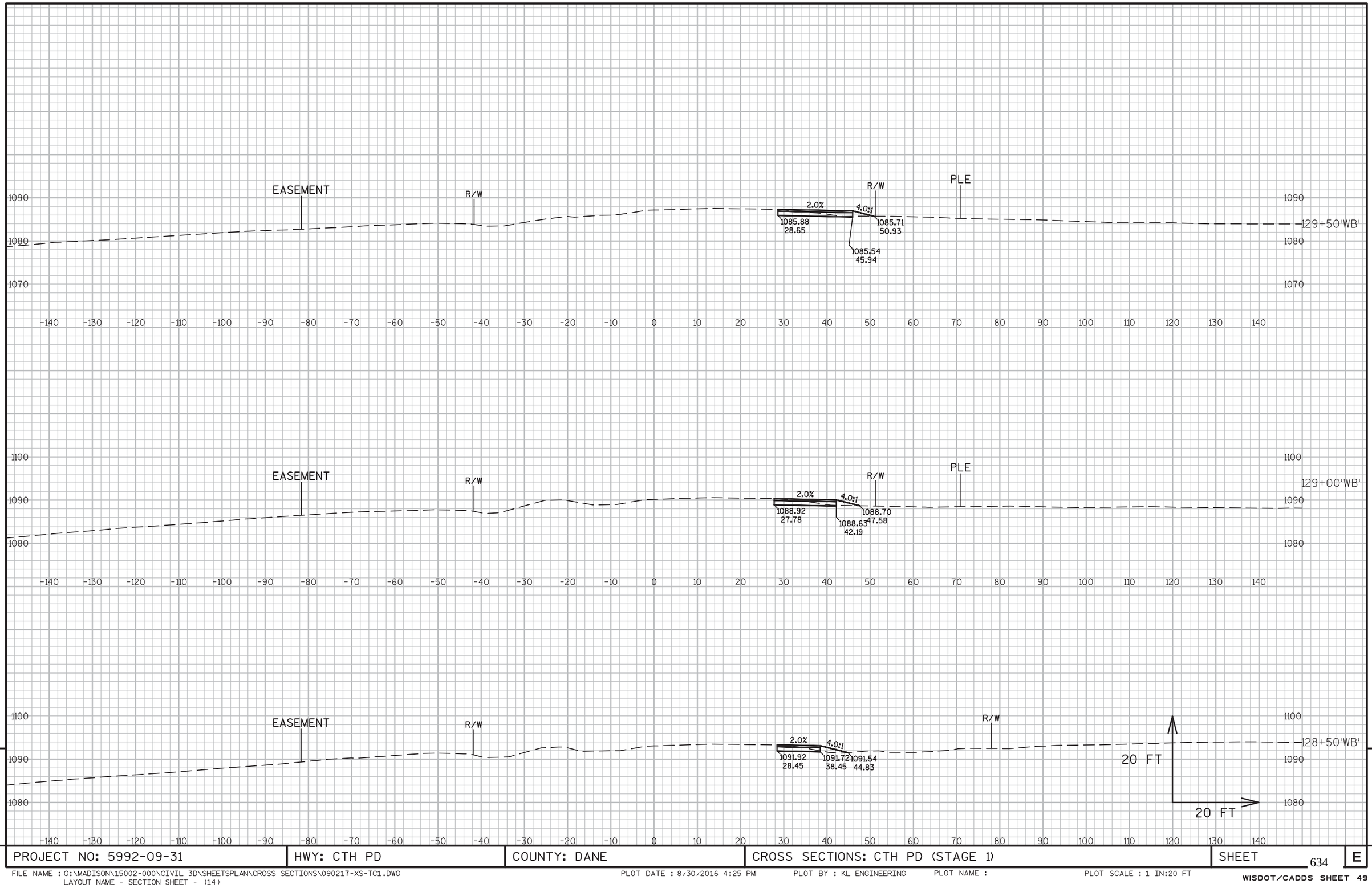
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 633	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (13)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

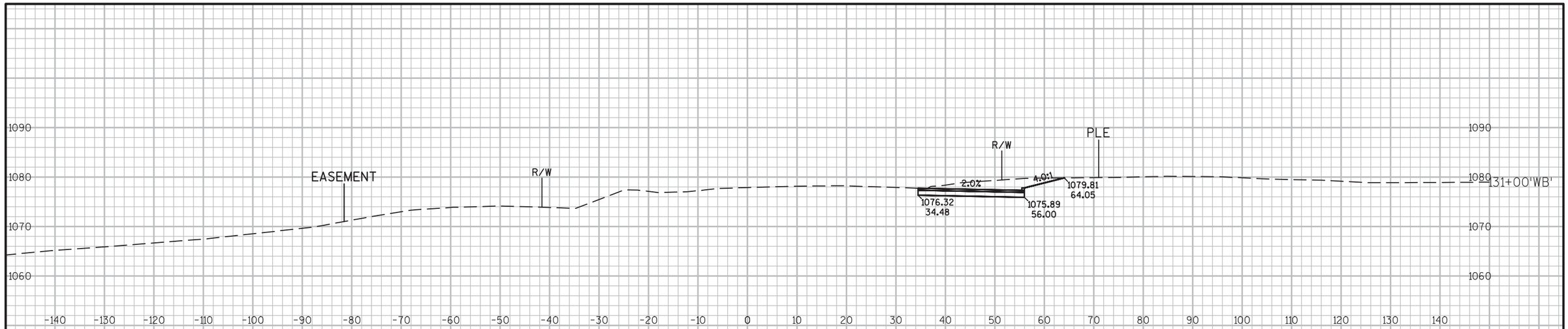
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 634	E

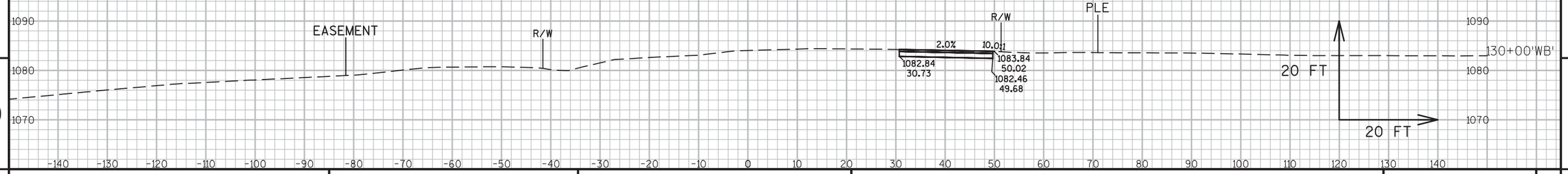
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (14)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







9

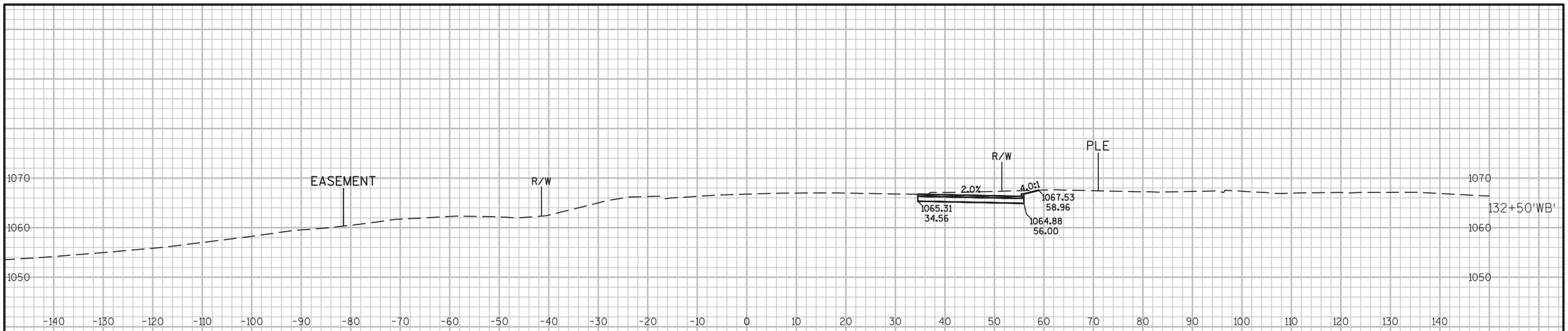
9

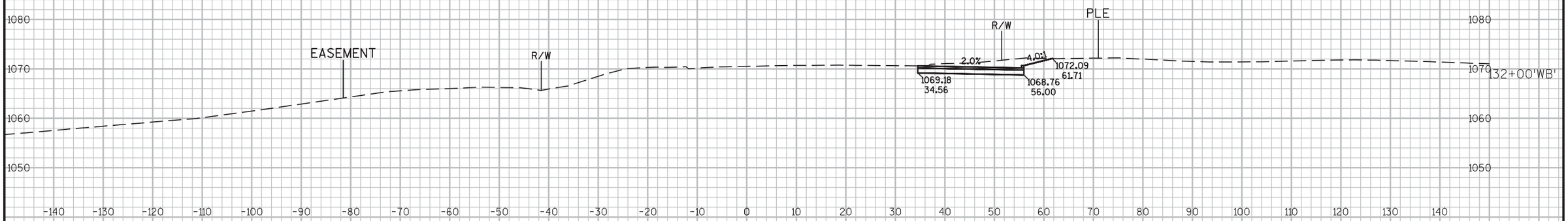
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 635	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (15)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







9

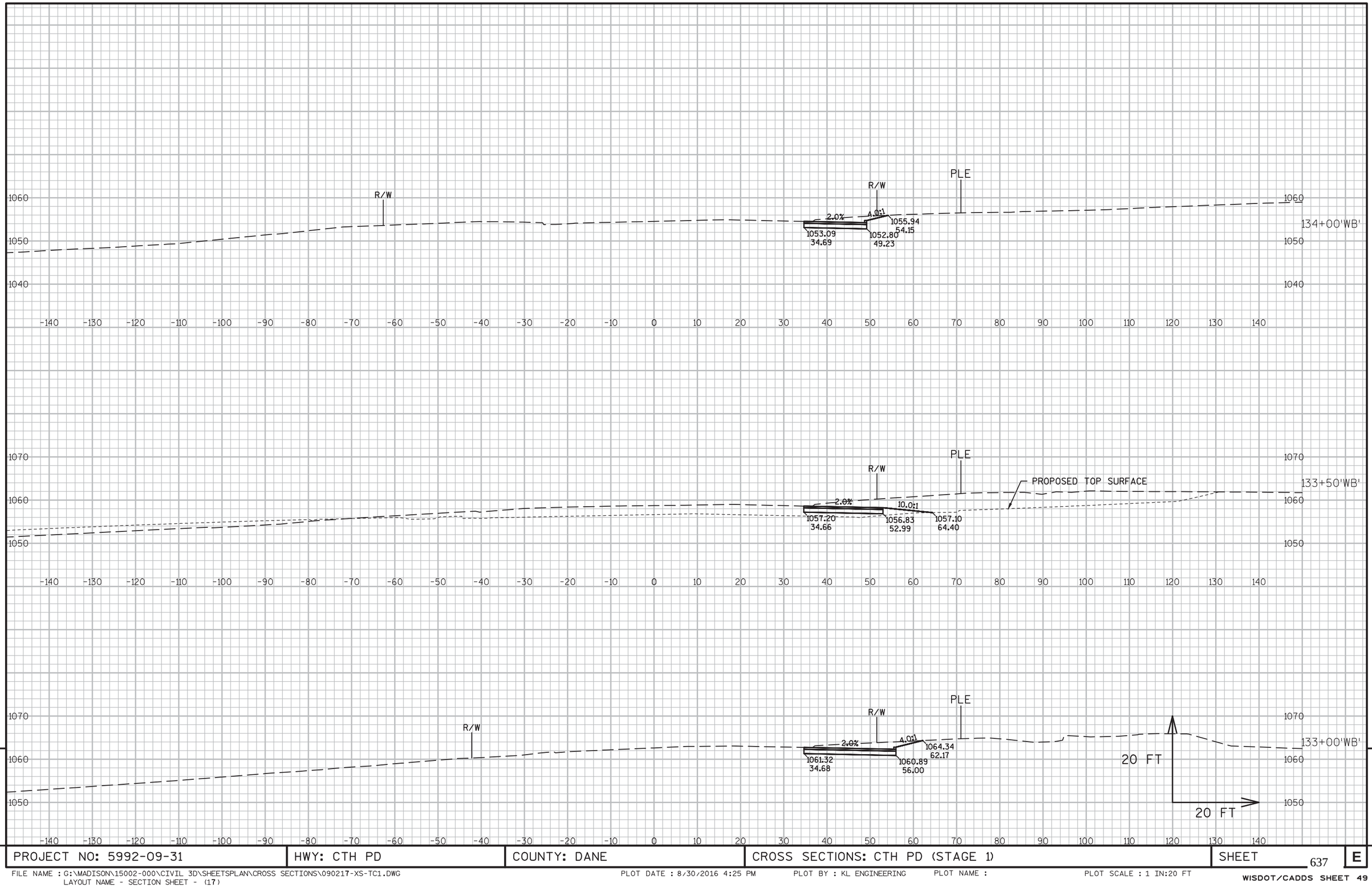
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 636	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (16)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

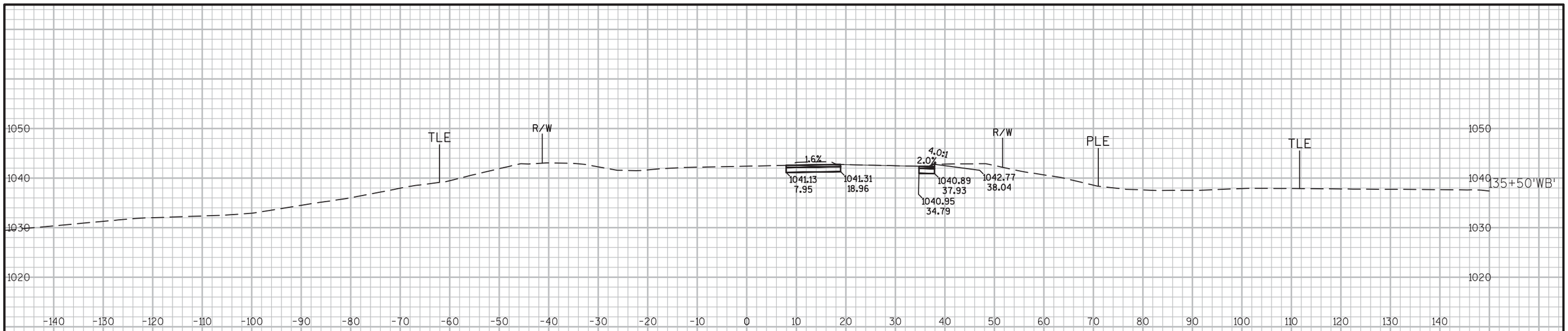
9

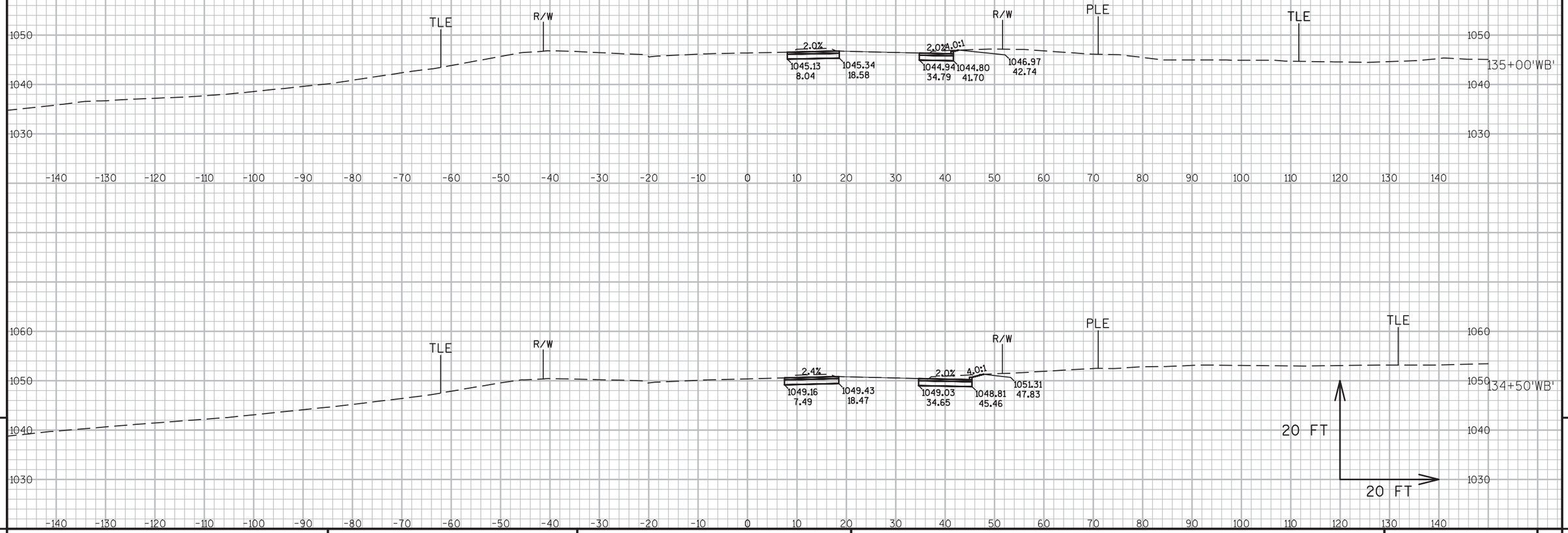
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 637	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (17)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49





9

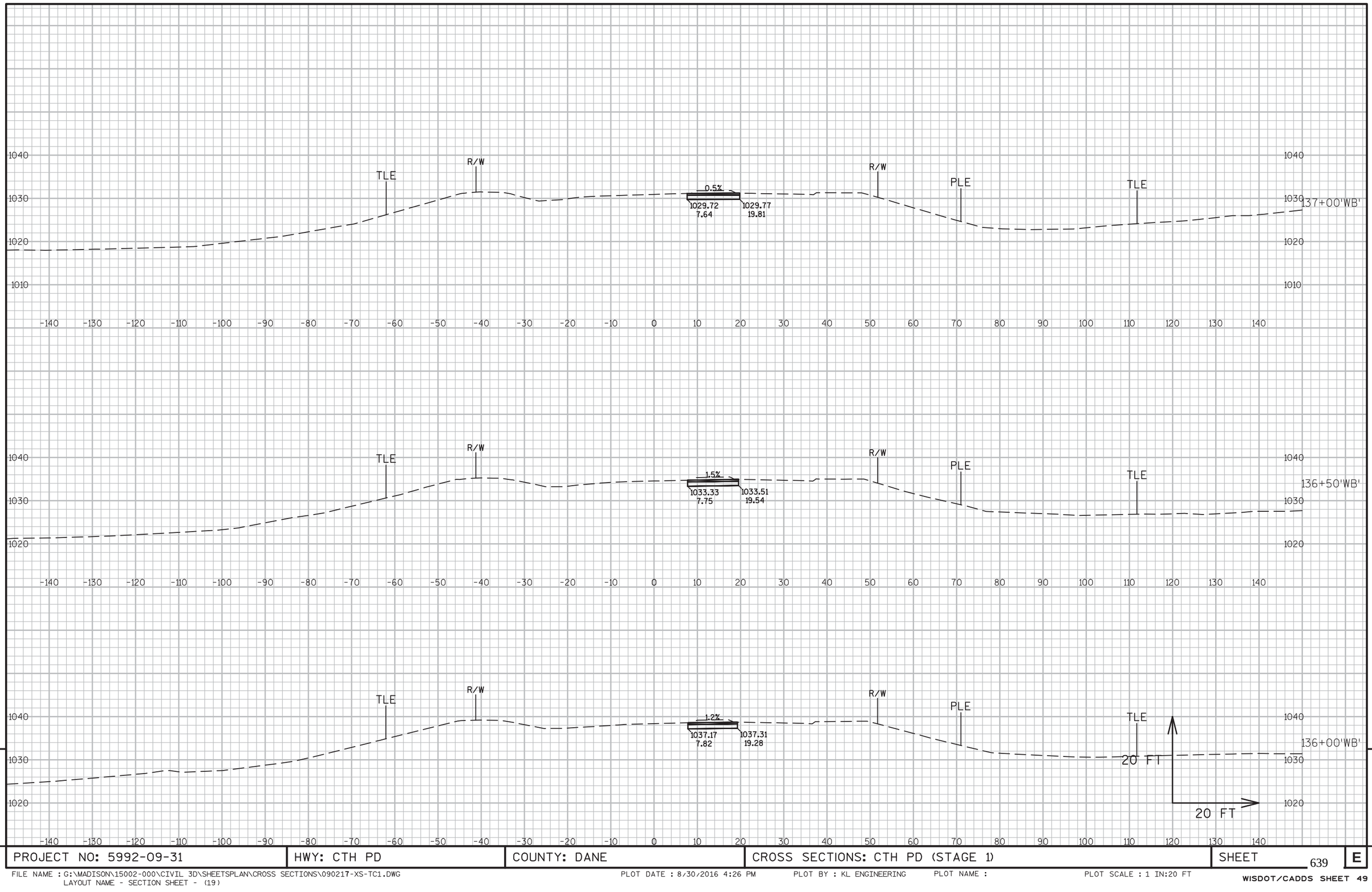
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 638	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (18)

PLOT DATE : 8/30/2016 4:25 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



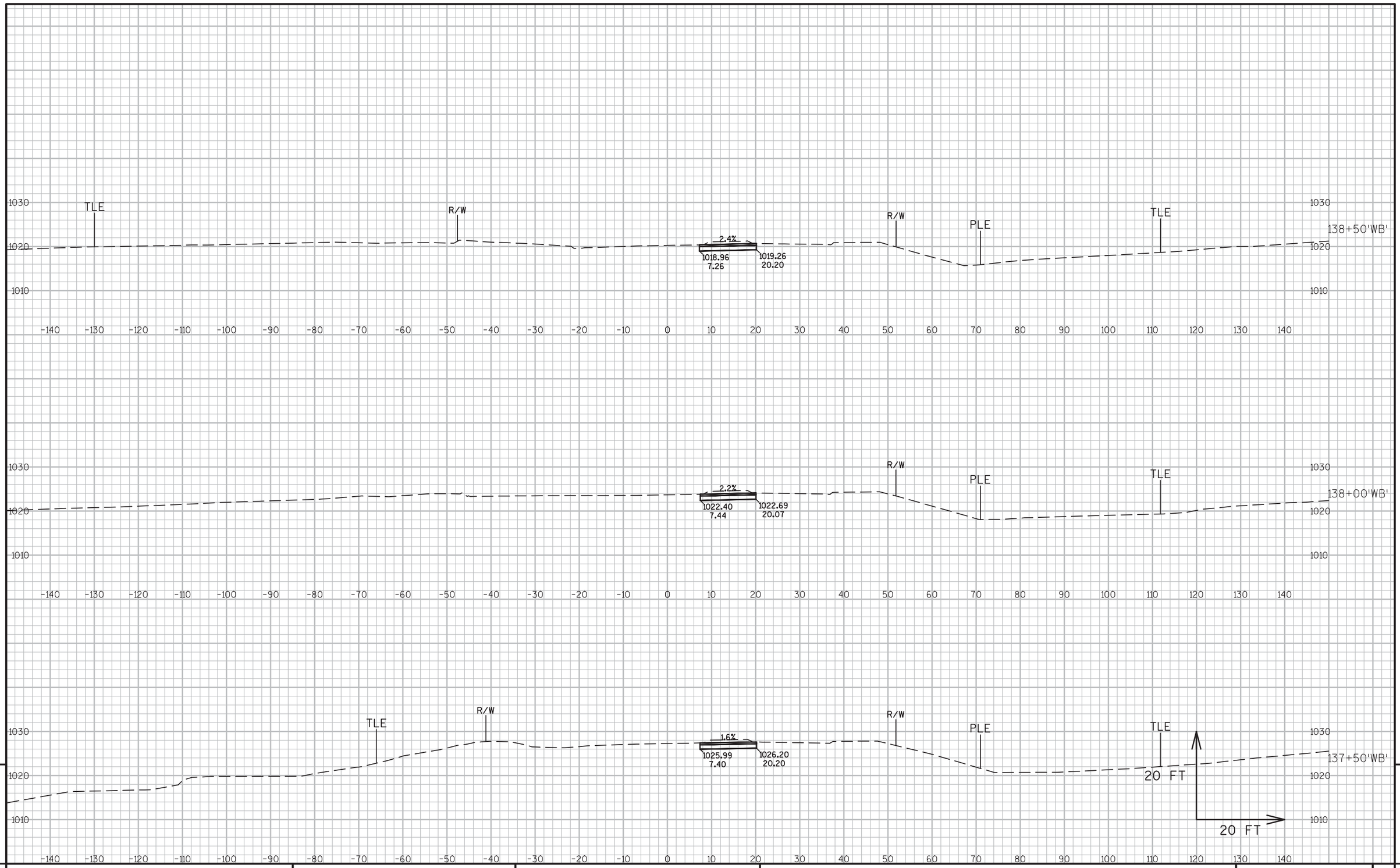
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 639	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (19)

PLOT DATE : 8/30/2016 4:26 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

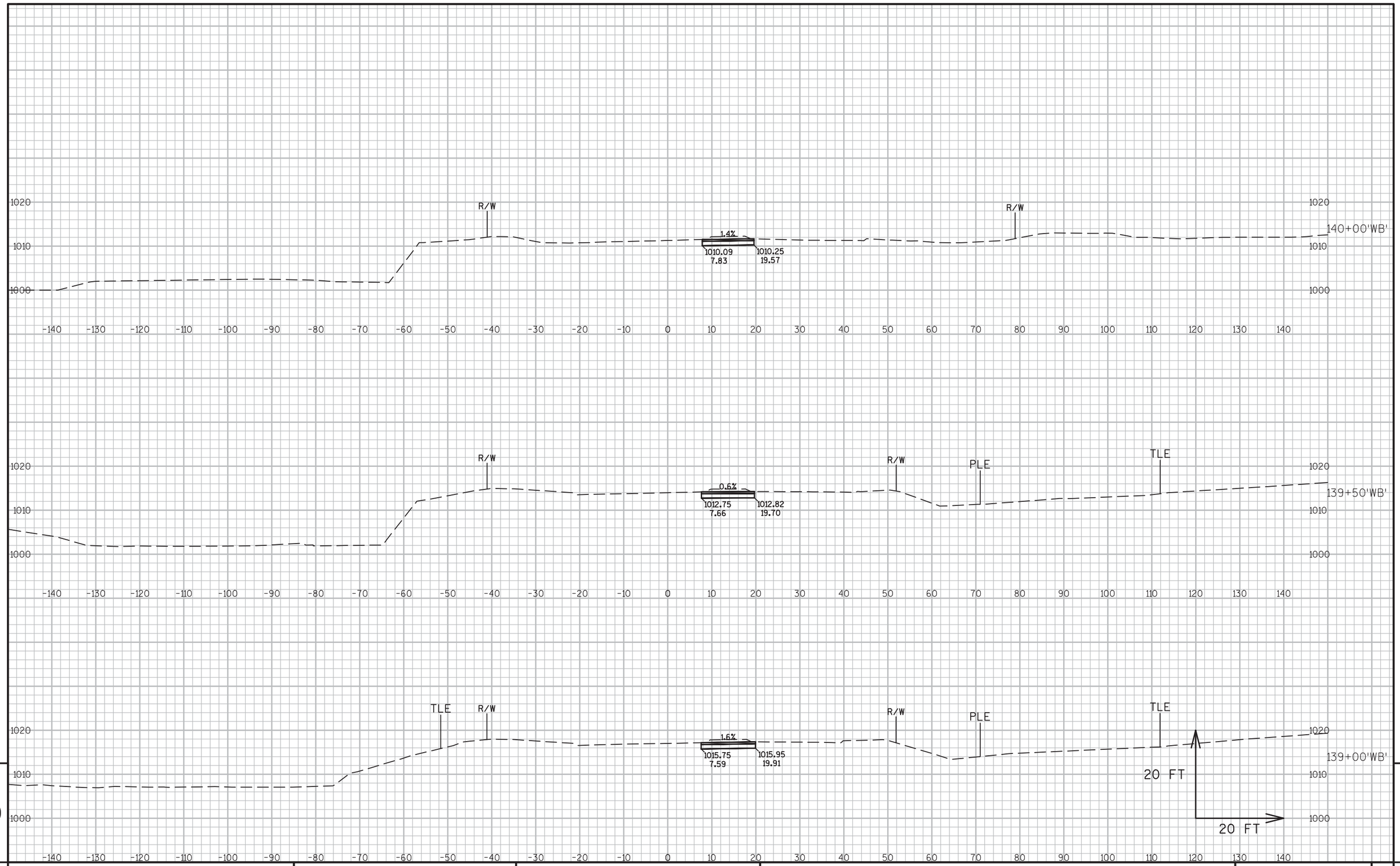


9 9

PROJECT NO: ~~5992-09-31~~	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 640	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (20)

PLOT DATE : 8/30/2016 4:26 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



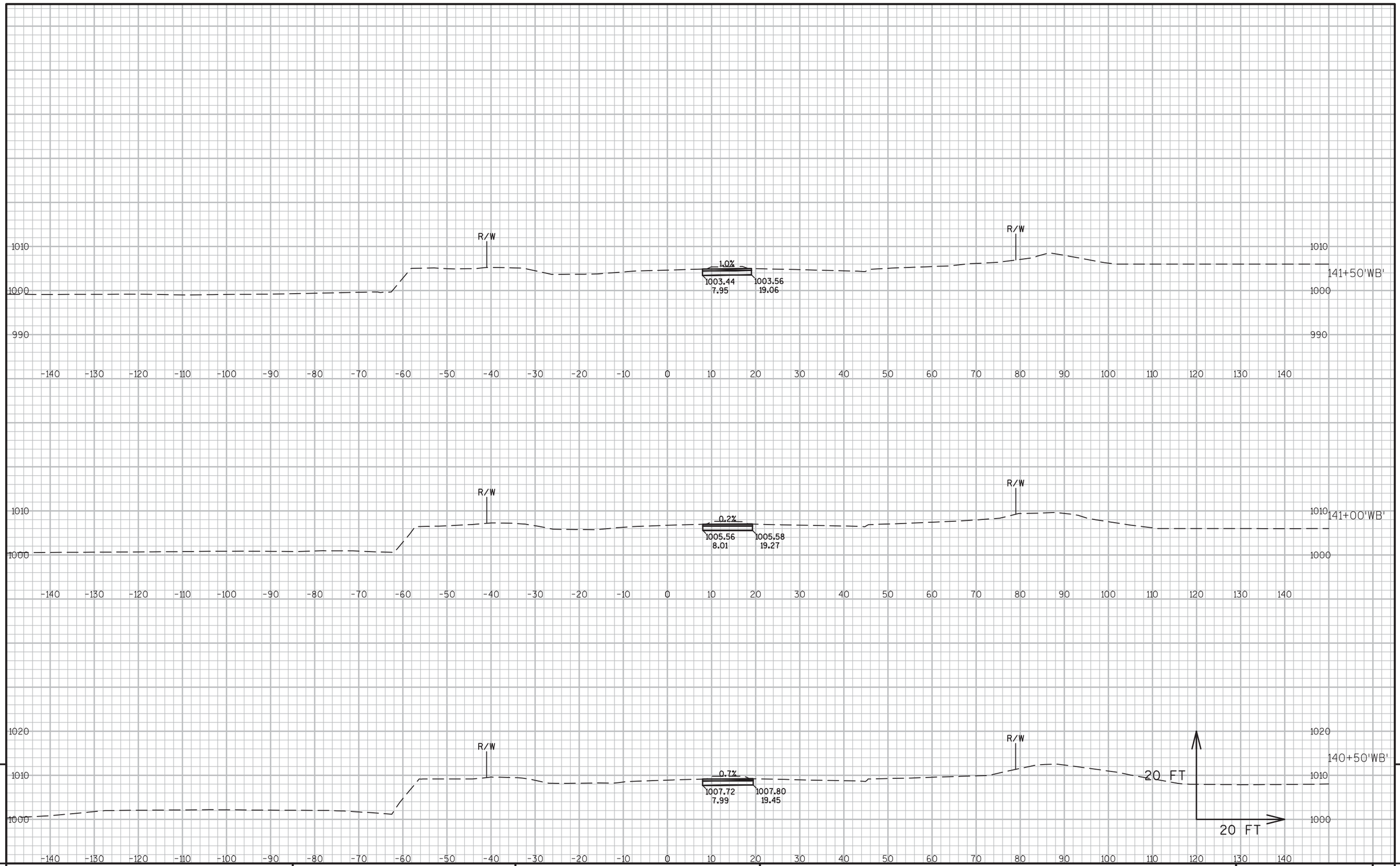
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 641	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (21)

PLOT DATE : 8/30/2016 4:26 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



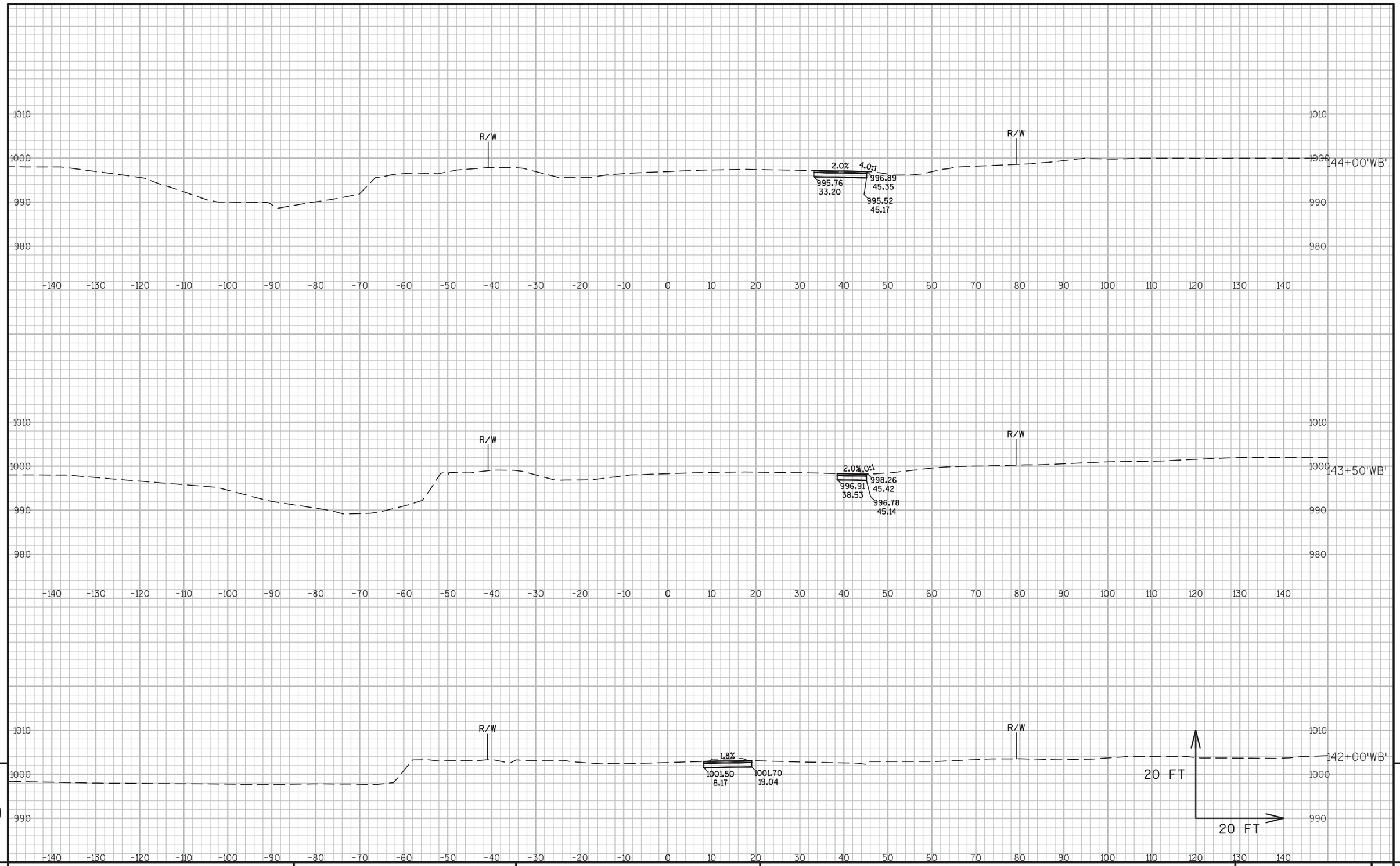
9 9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 642	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (22)

PLOT DATE : 8/30/2016 4:26 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



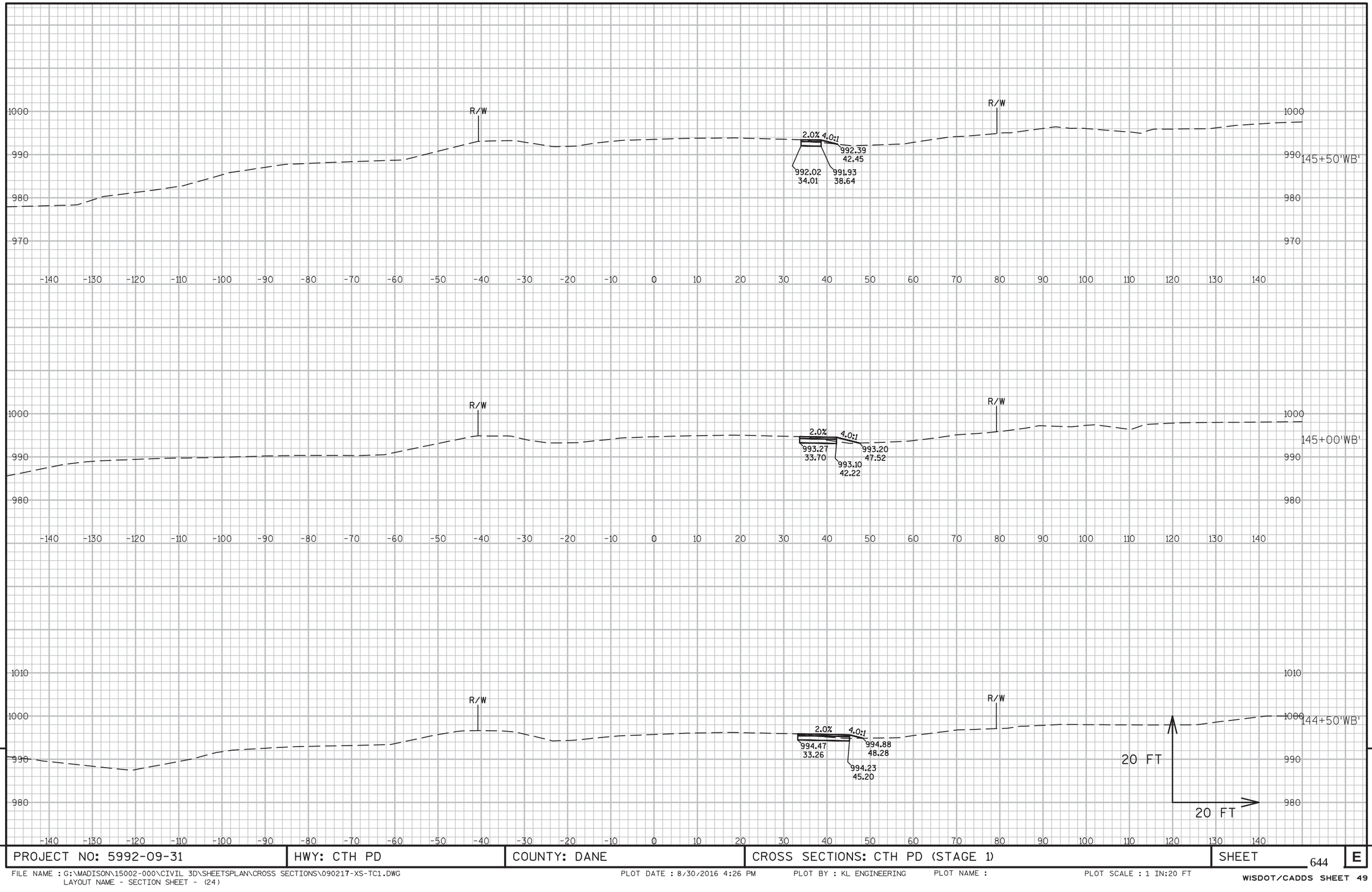
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 643	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (23)

PLOT DATE : 8/30/2016 4:26 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

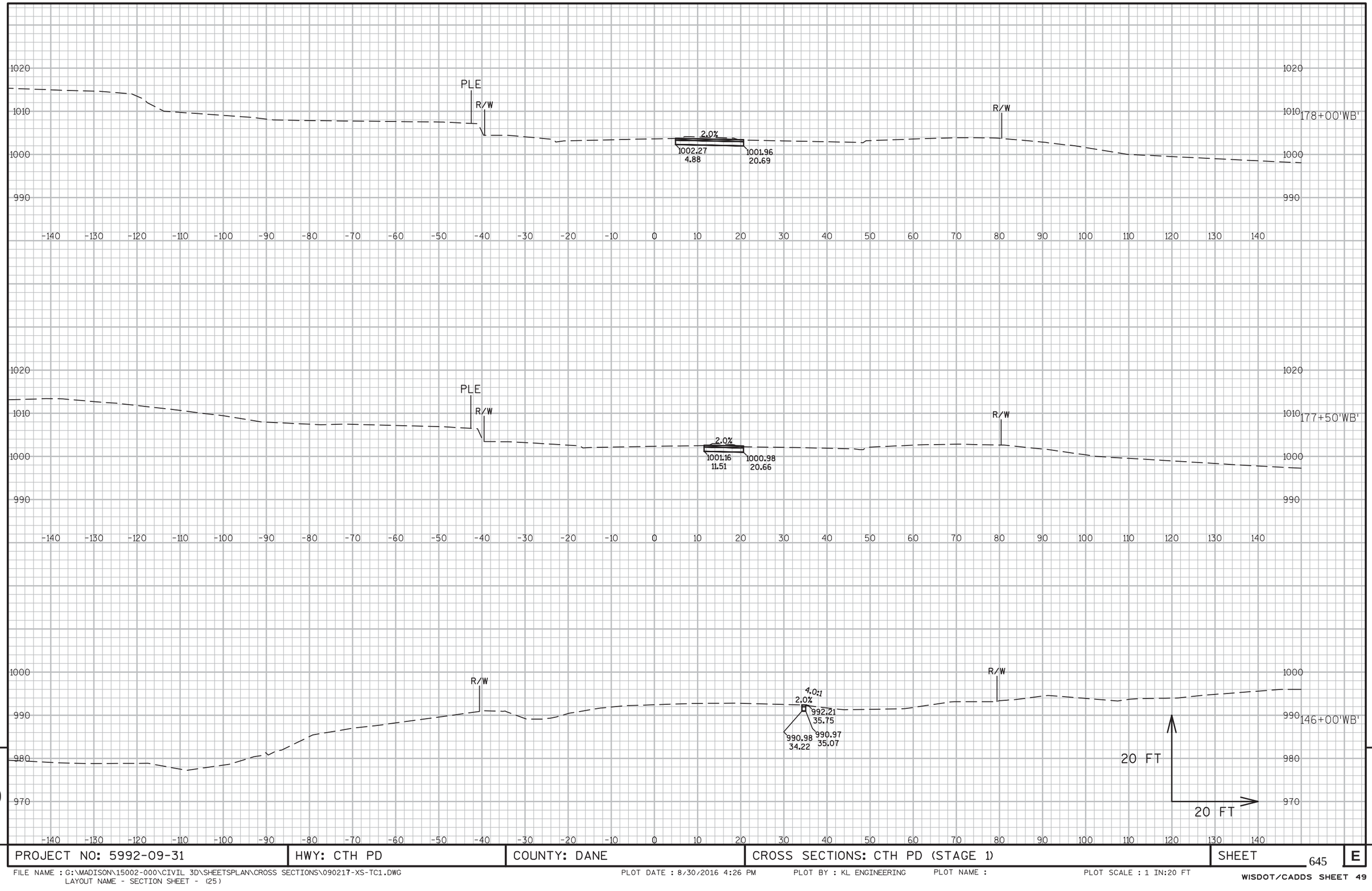
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 644	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (24)

PLOT DATE : 8/30/2016 4:26 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

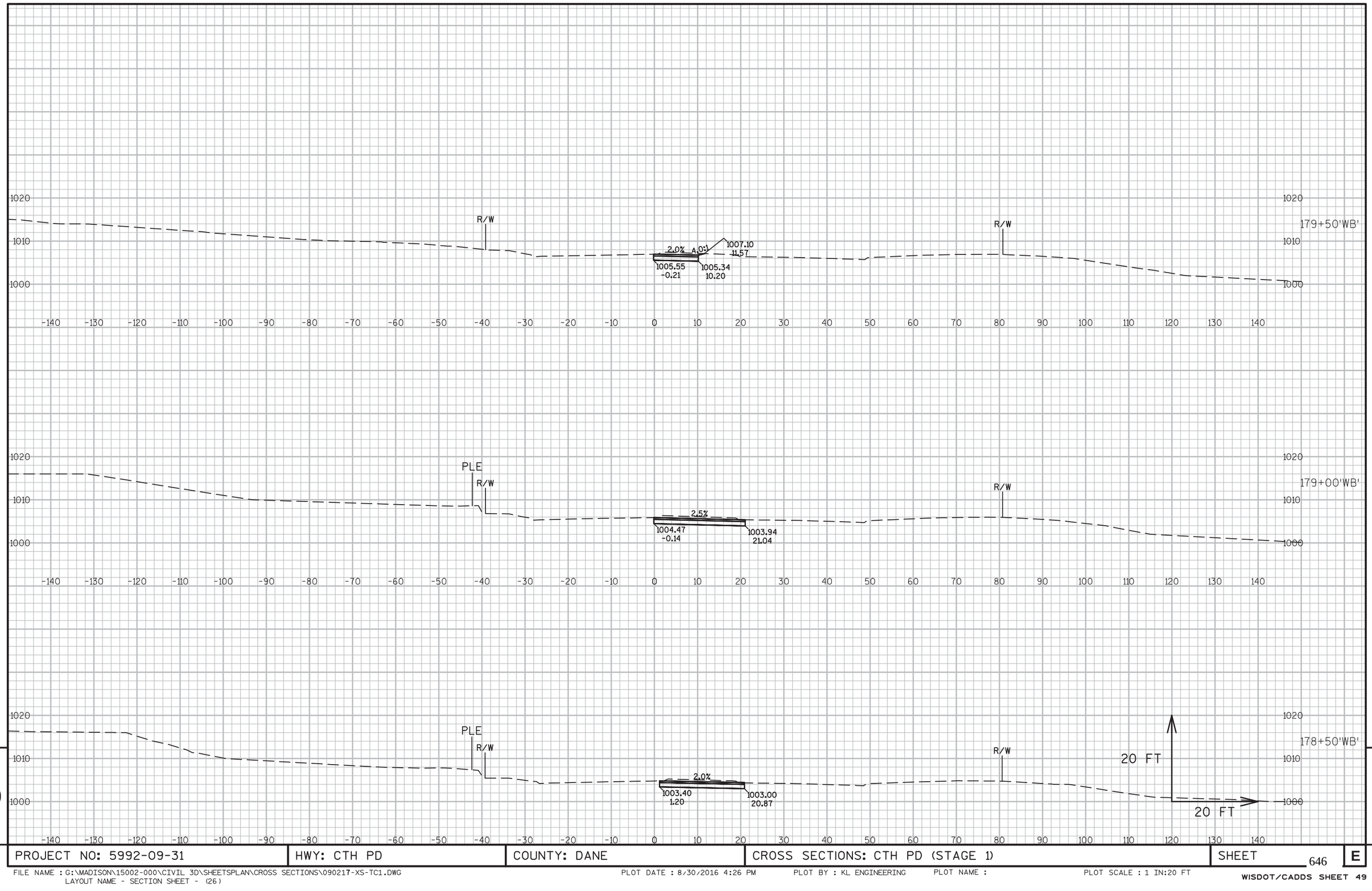
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 645	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (25)

PLOT DATE : 8/30/2016 4:26 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

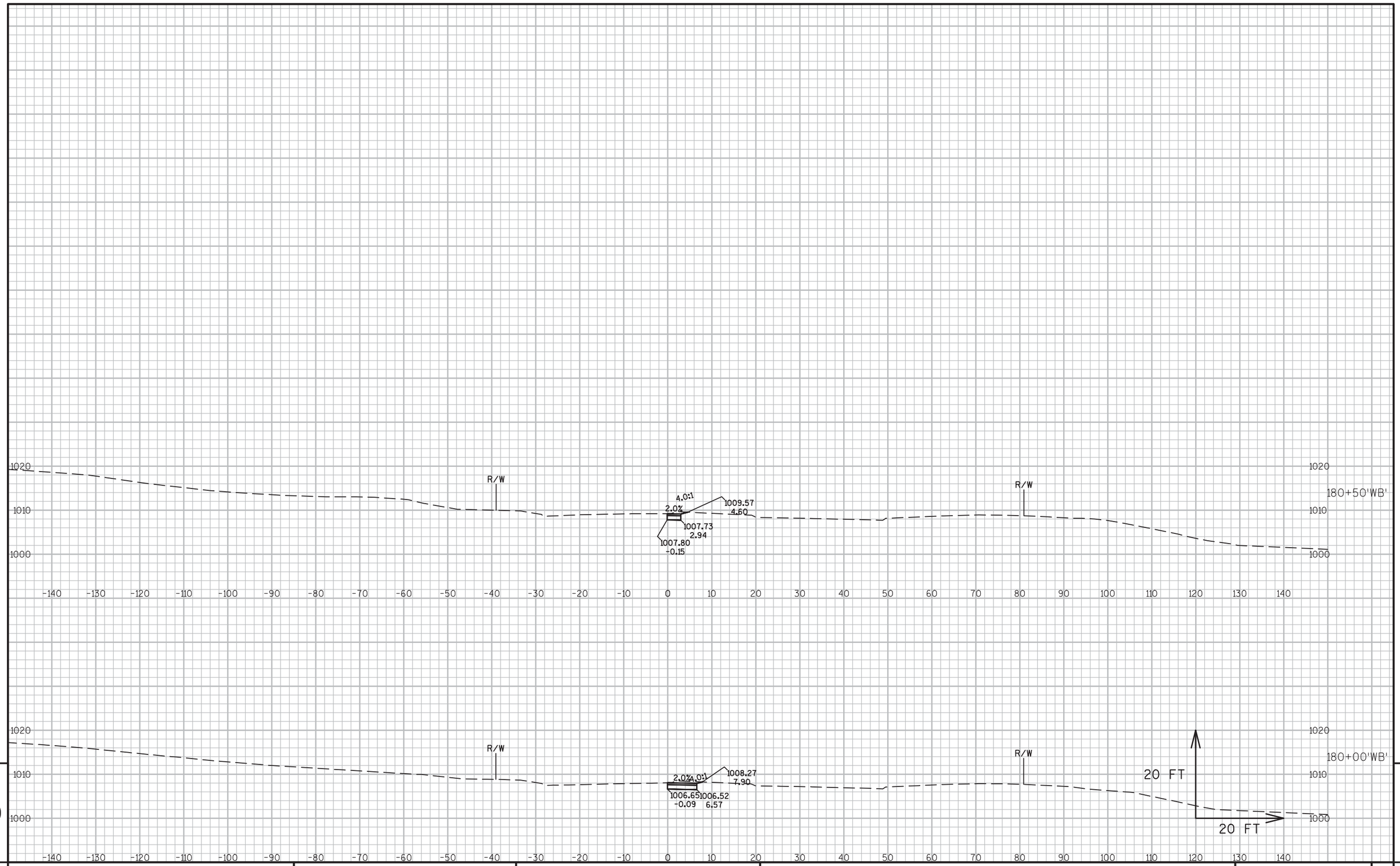


PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 646	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (26)

PLOT DATE : 8/30/2016 4:26 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 1)	SHEET 647	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (27)

PLOT DATE : 8/30/2016 4:26 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: SOUTH HIGH POINT (STAGE 1)	SHEET 648	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (28)

PLOT DATE : 8/30/2016 4:26 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



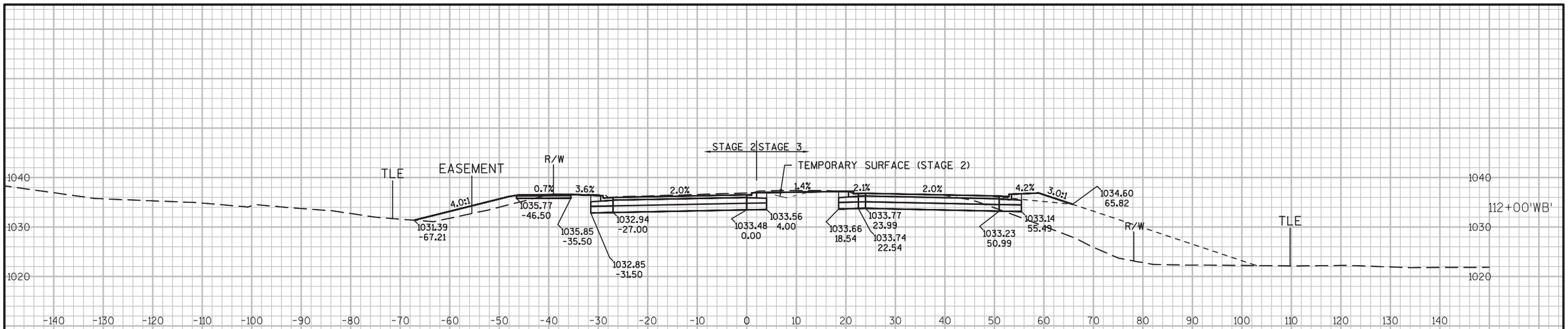
9

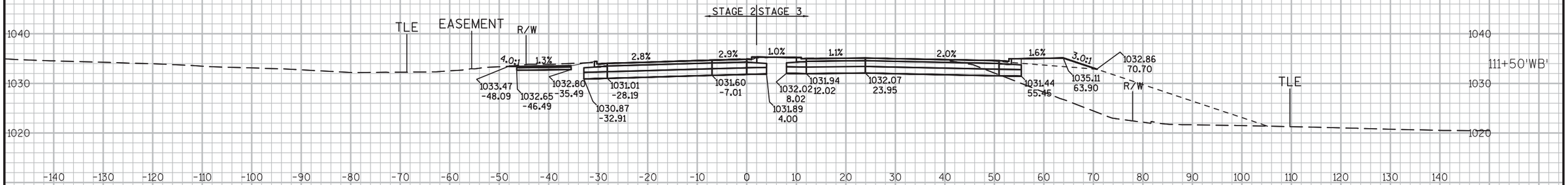
9

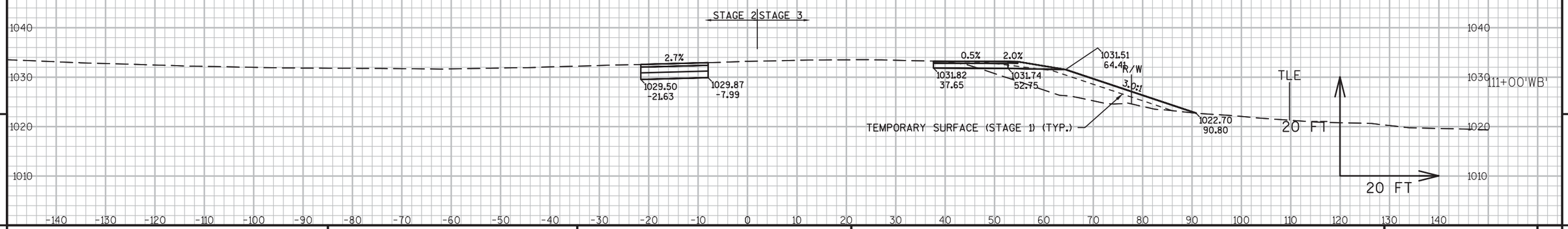
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: SOUTH HIGH POINT (STAGE 1)	SHEET 649	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090217-XS-TC1.DWG
LAYOUT NAME - SECTION SHEET - (29)

PLOT DATE : 8/30/2016 4:26 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT







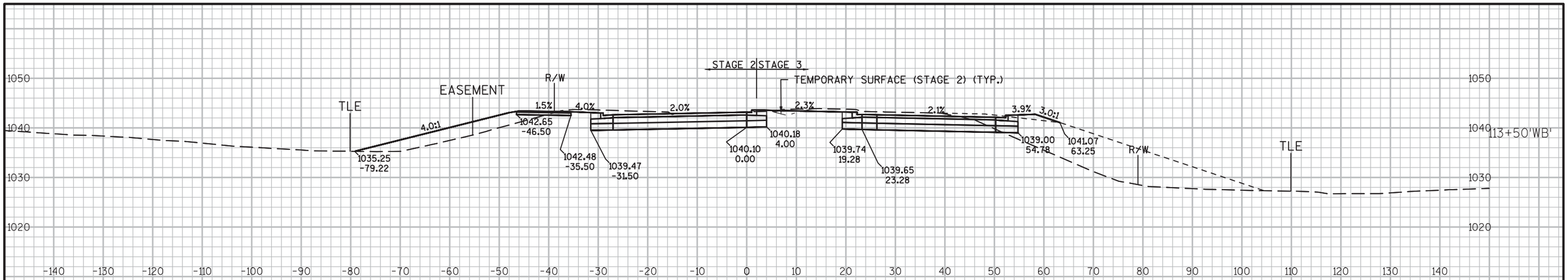
9

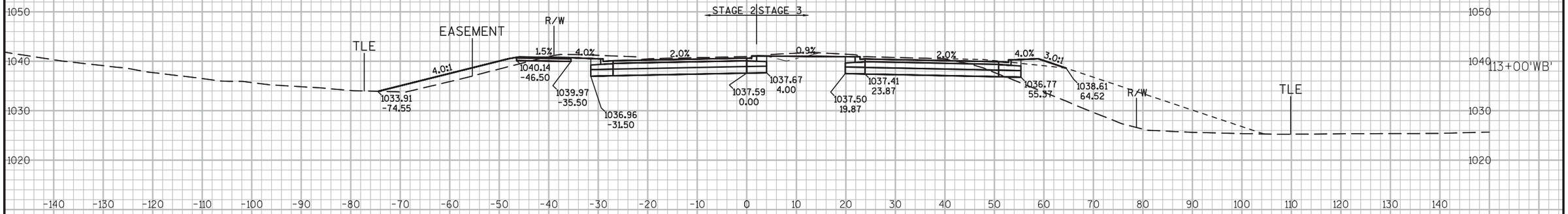
9

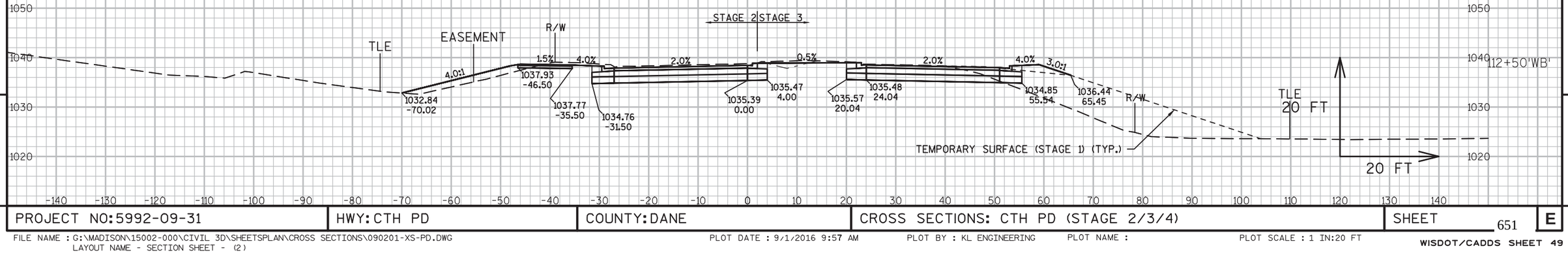
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 650	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (1)

PLOT DATE : 9/1/2016 9:57 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT





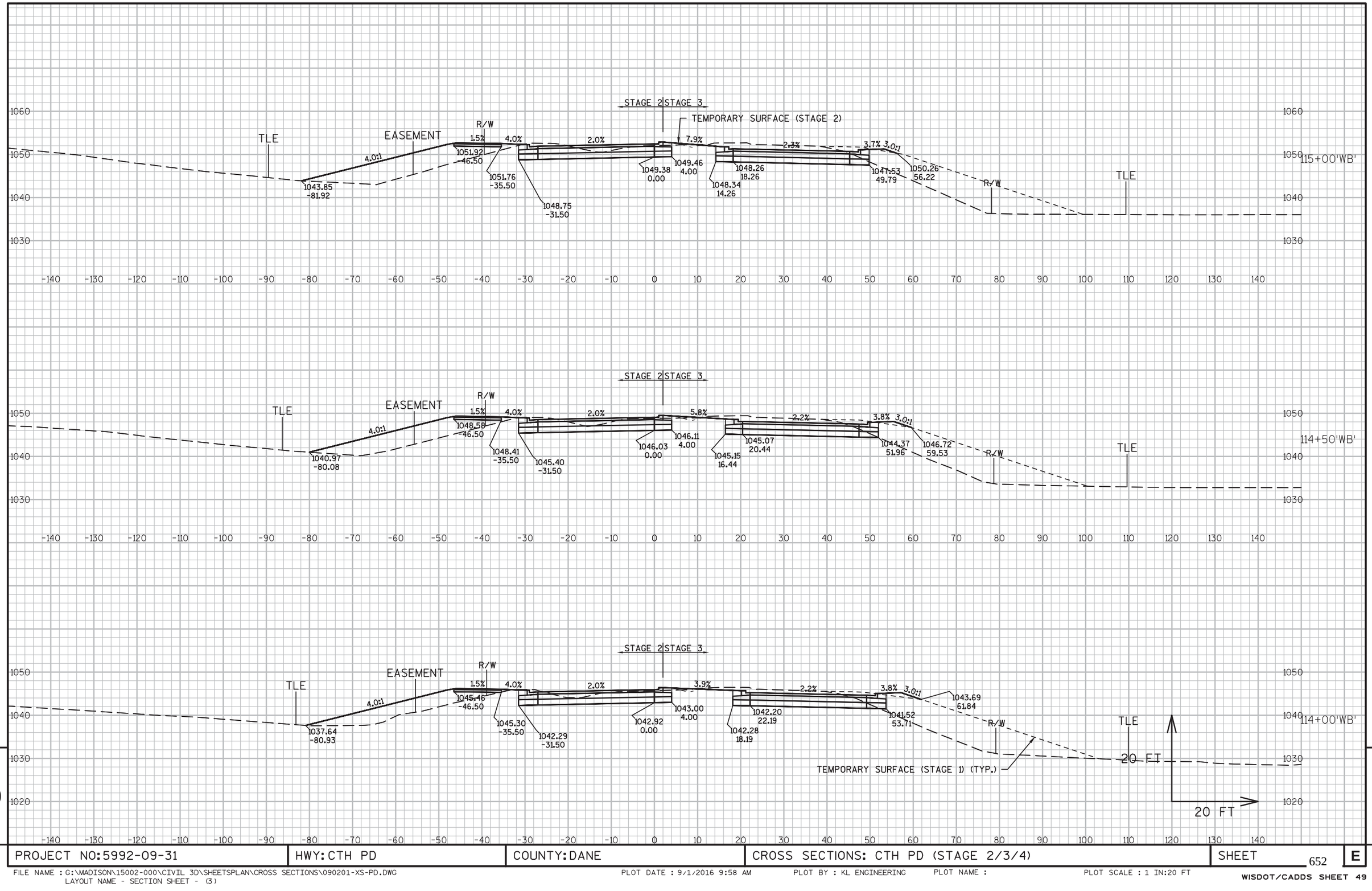


PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 651	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (2)

PLOT DATE : 9/1/2016 9:57 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 652	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (3)

PLOT DATE : 9/1/2016 9:58 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

9

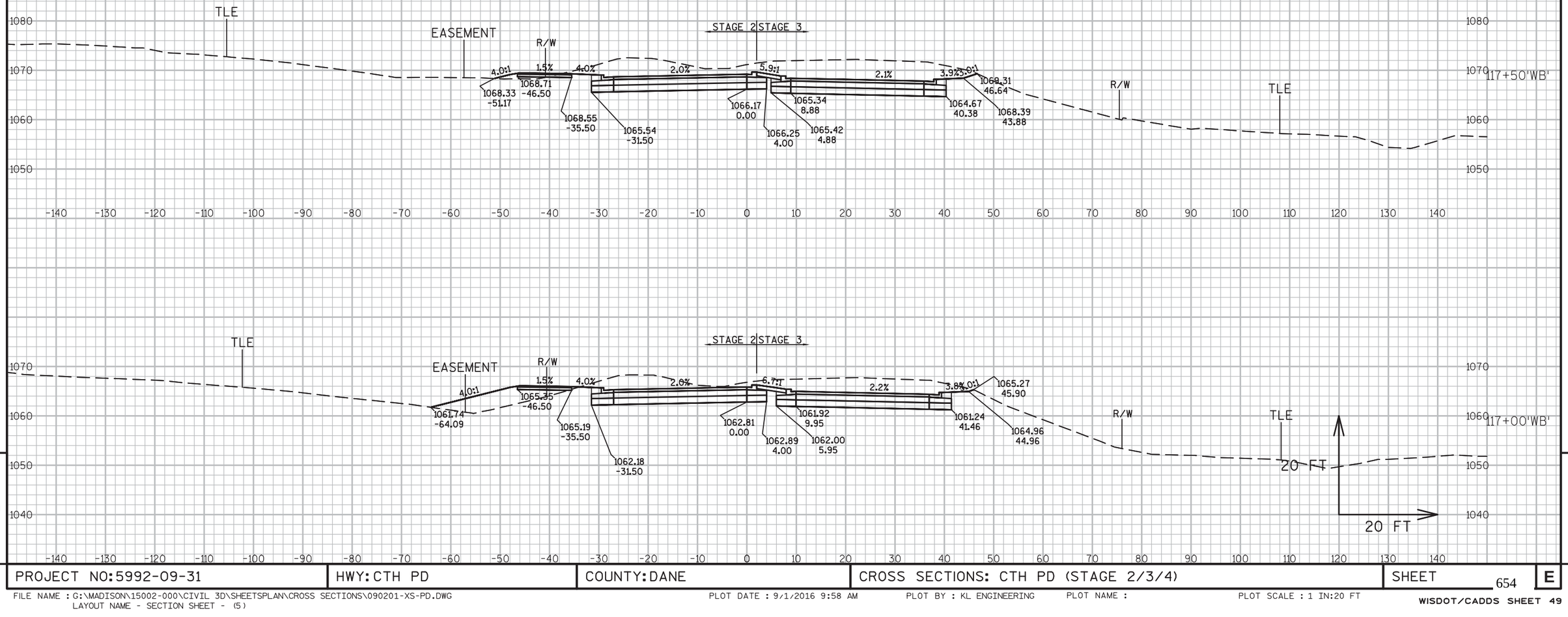
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 653	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (4)

PLOT DATE : 9/1/2016 9:58 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



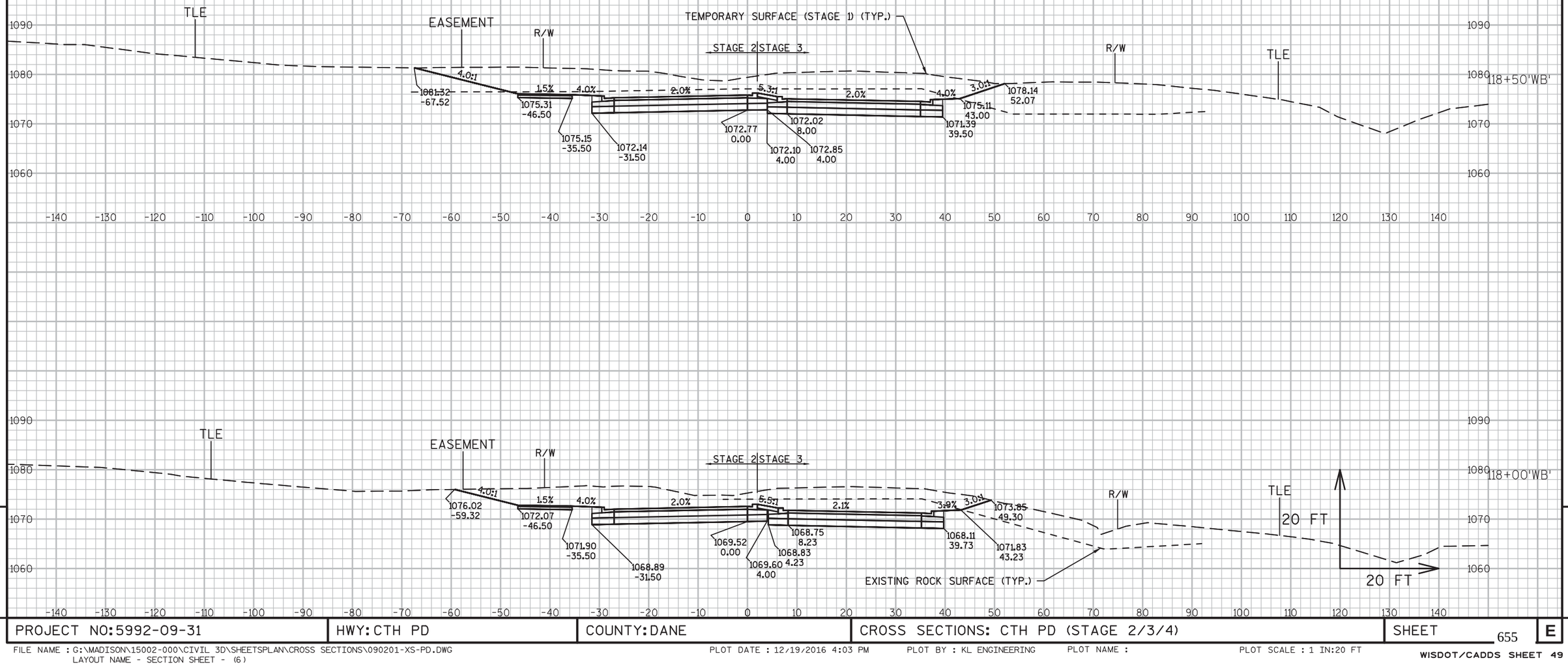
9 9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 654	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (5)

PLOT DATE : 9/1/2016 9:58 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

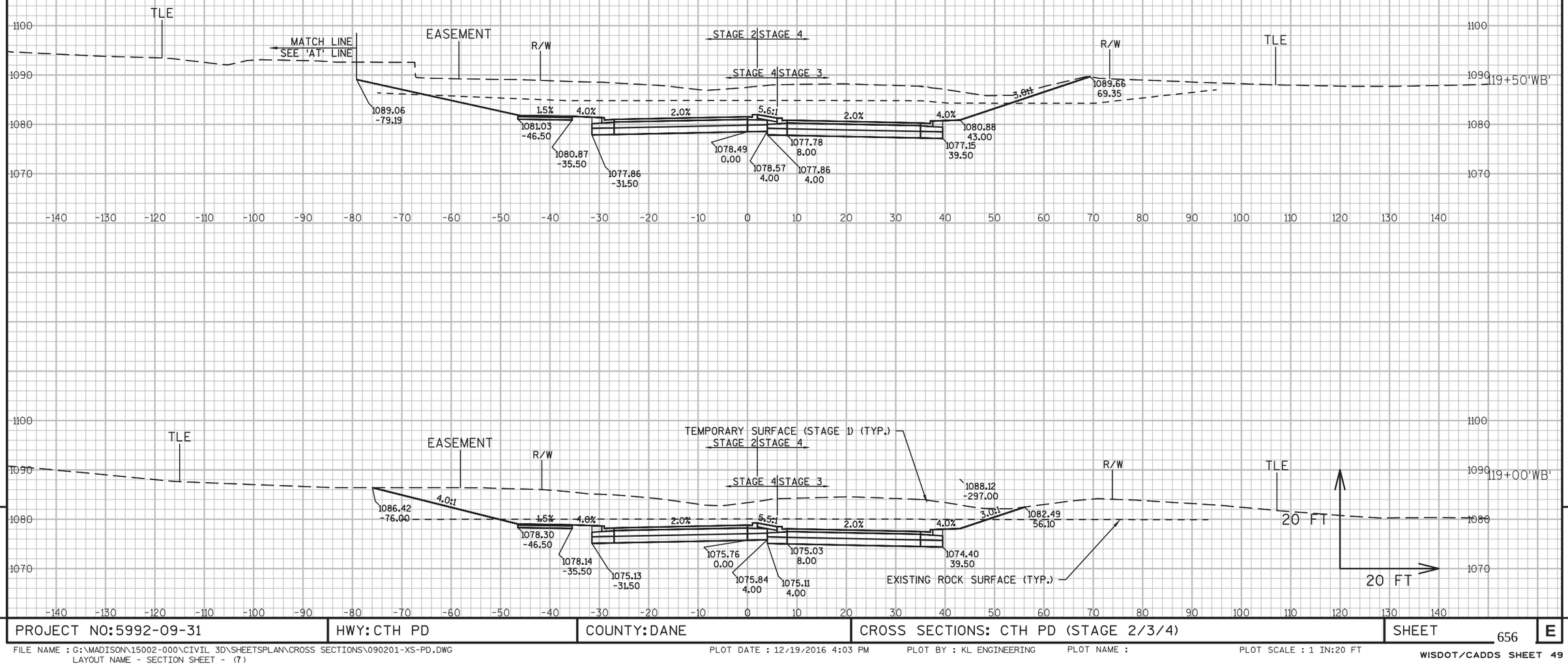
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 655	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (6)

PLOT DATE : 12/19/2016 4:03 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

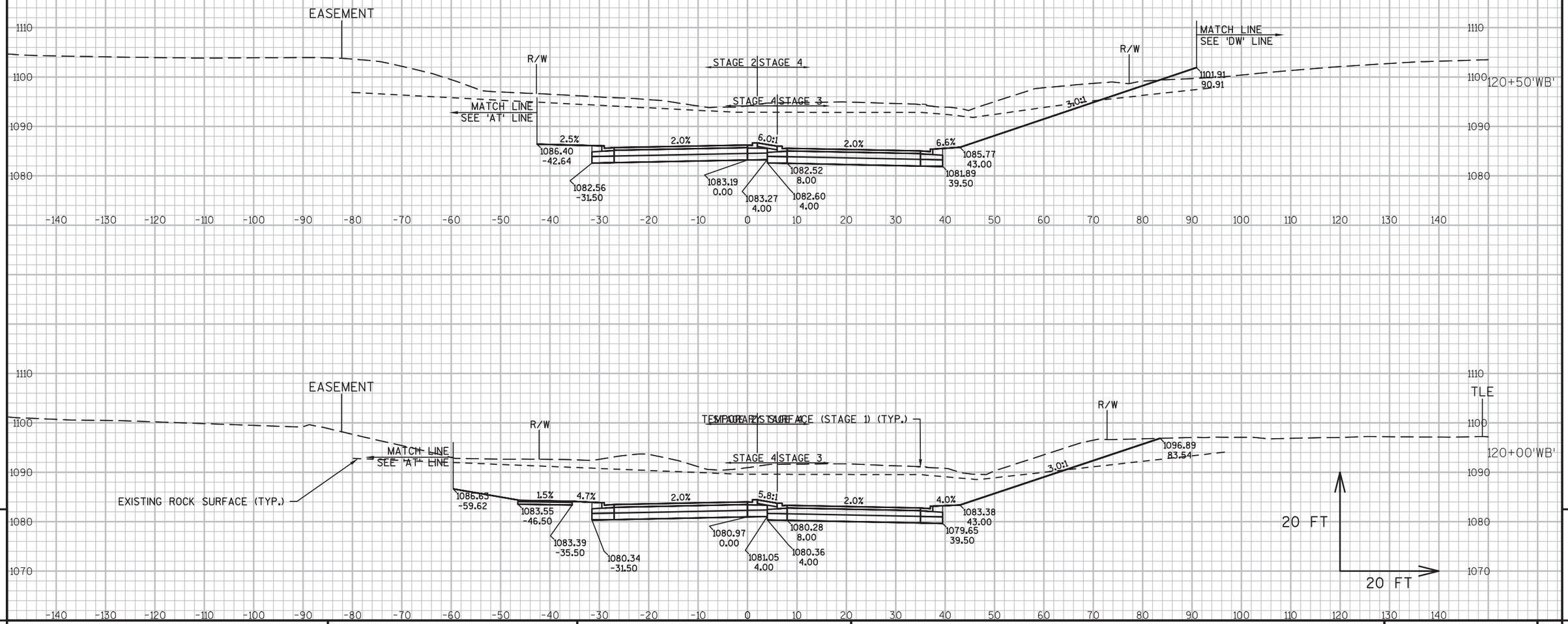
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 656	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (7)

PLOT DATE : 12/19/2016 4:03 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

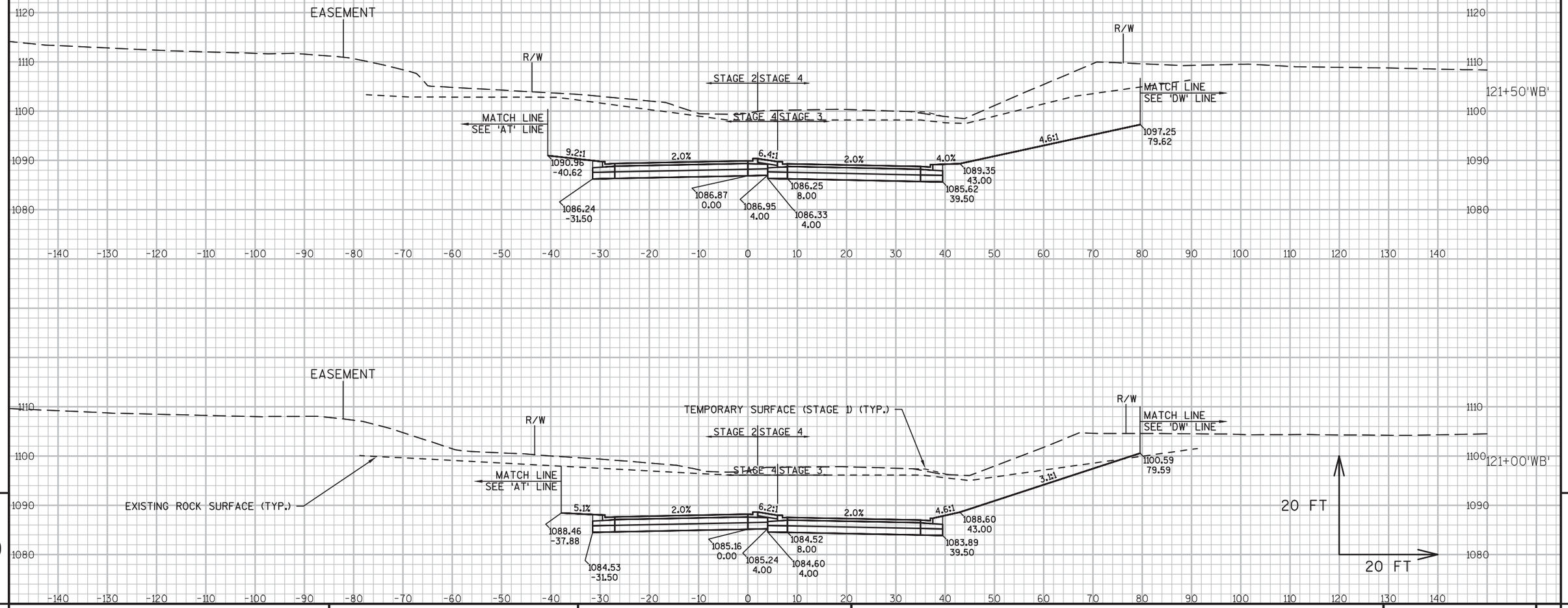
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 657	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (8)

PLOT DATE : 12/19/2016 4:03 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

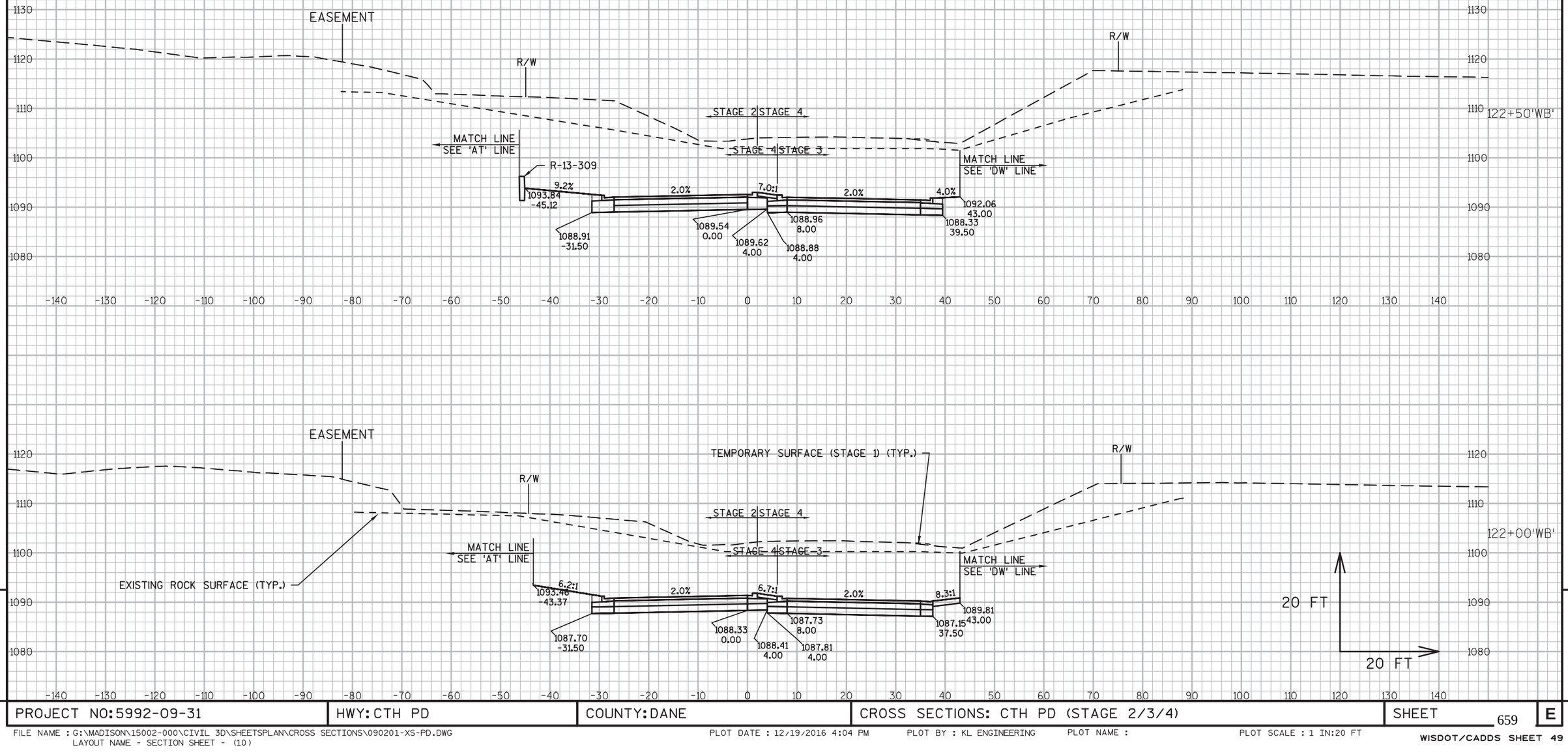
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 658	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (9)

PLOT DATE : 12/19/2016 4:04 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

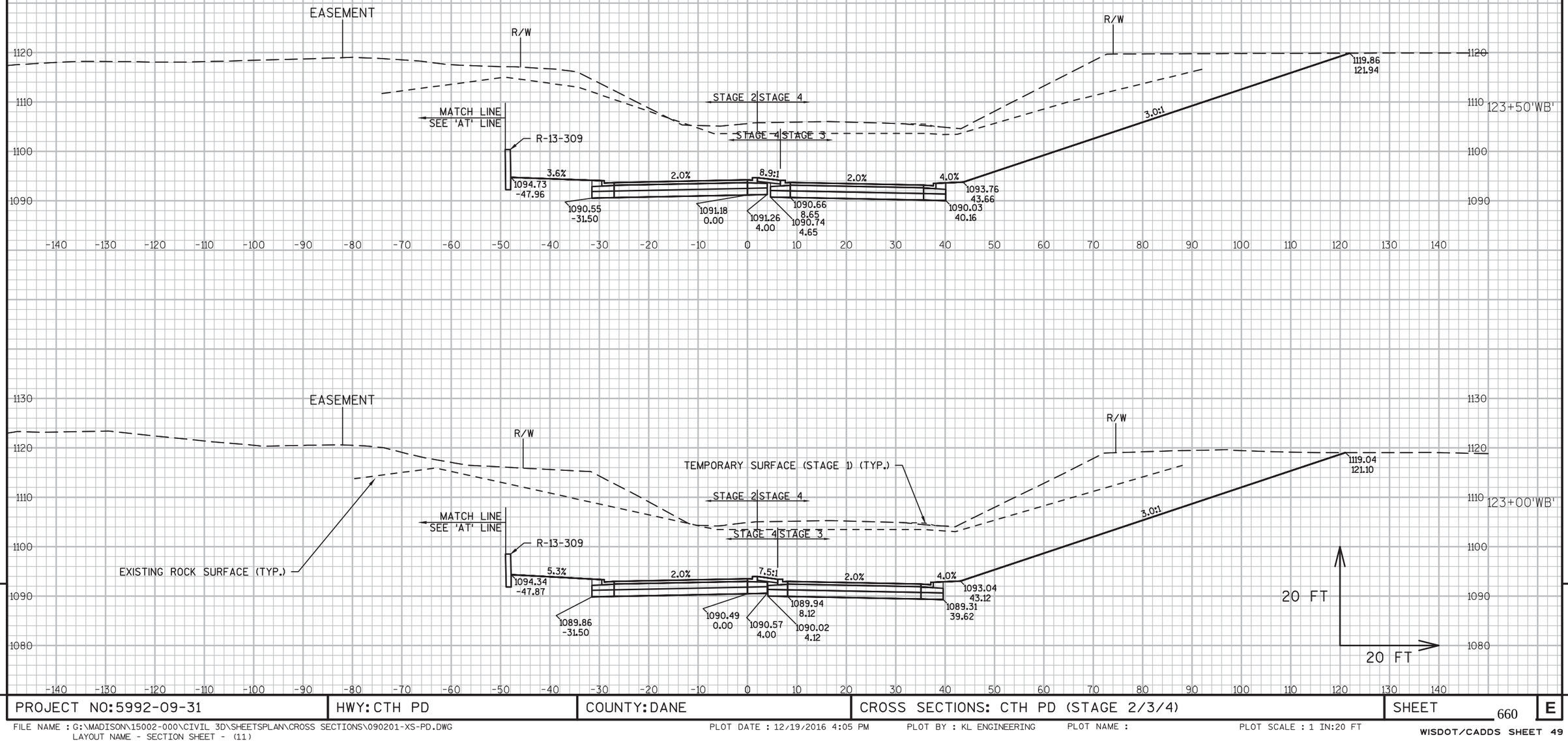
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 659	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (10)

PLOT DATE : 12/19/2016 4:04 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

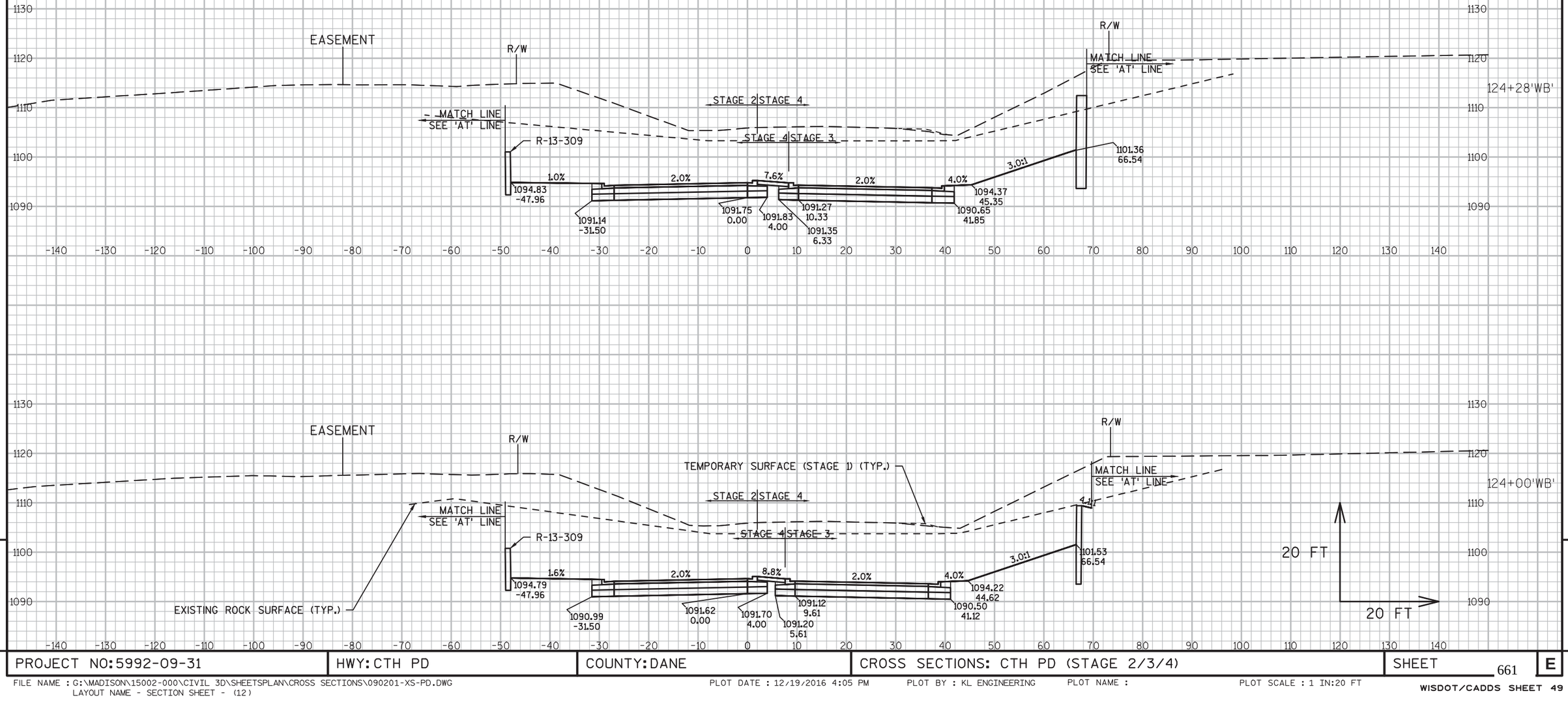


PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 660	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (11)

PLOT DATE : 12/19/2016 4:05 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



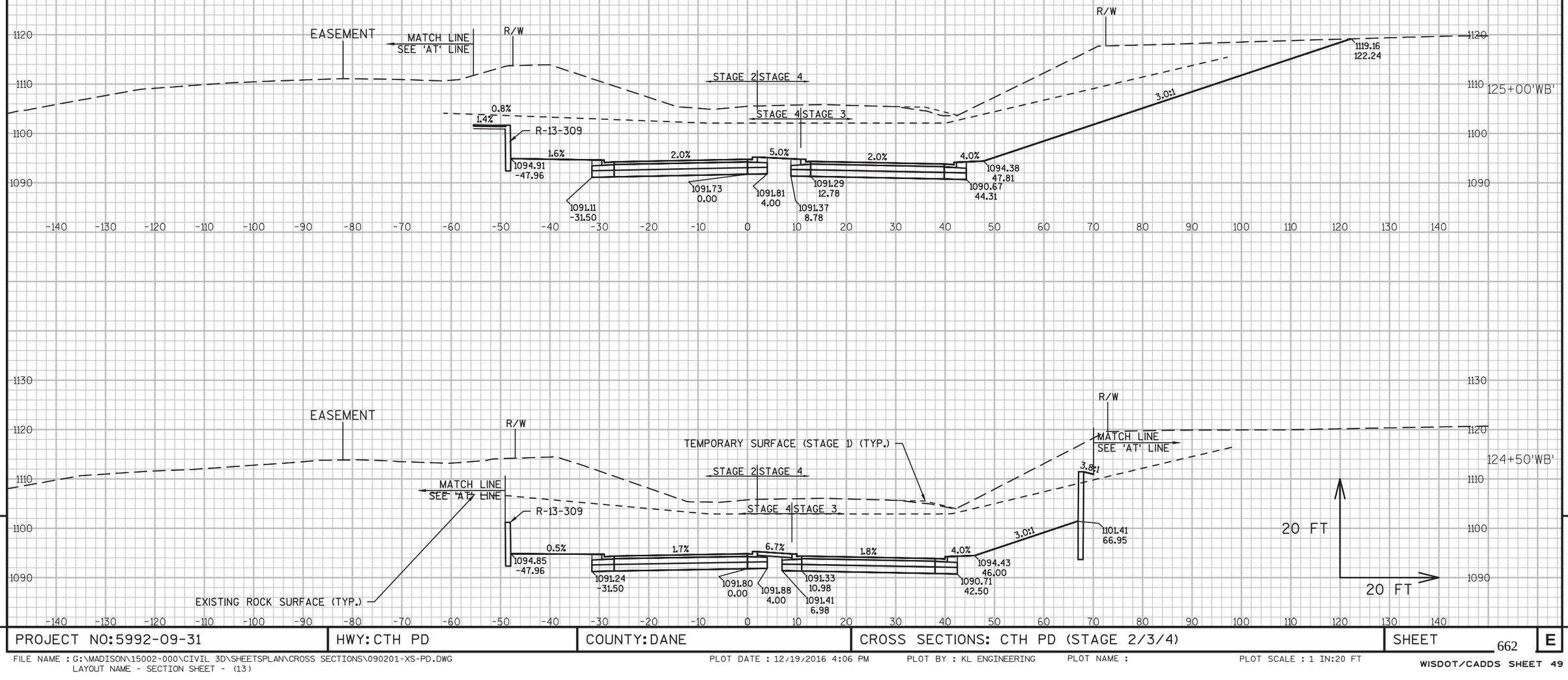
9

9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 661	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (12)

PLOT DATE : 12/19/2016 4:05 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

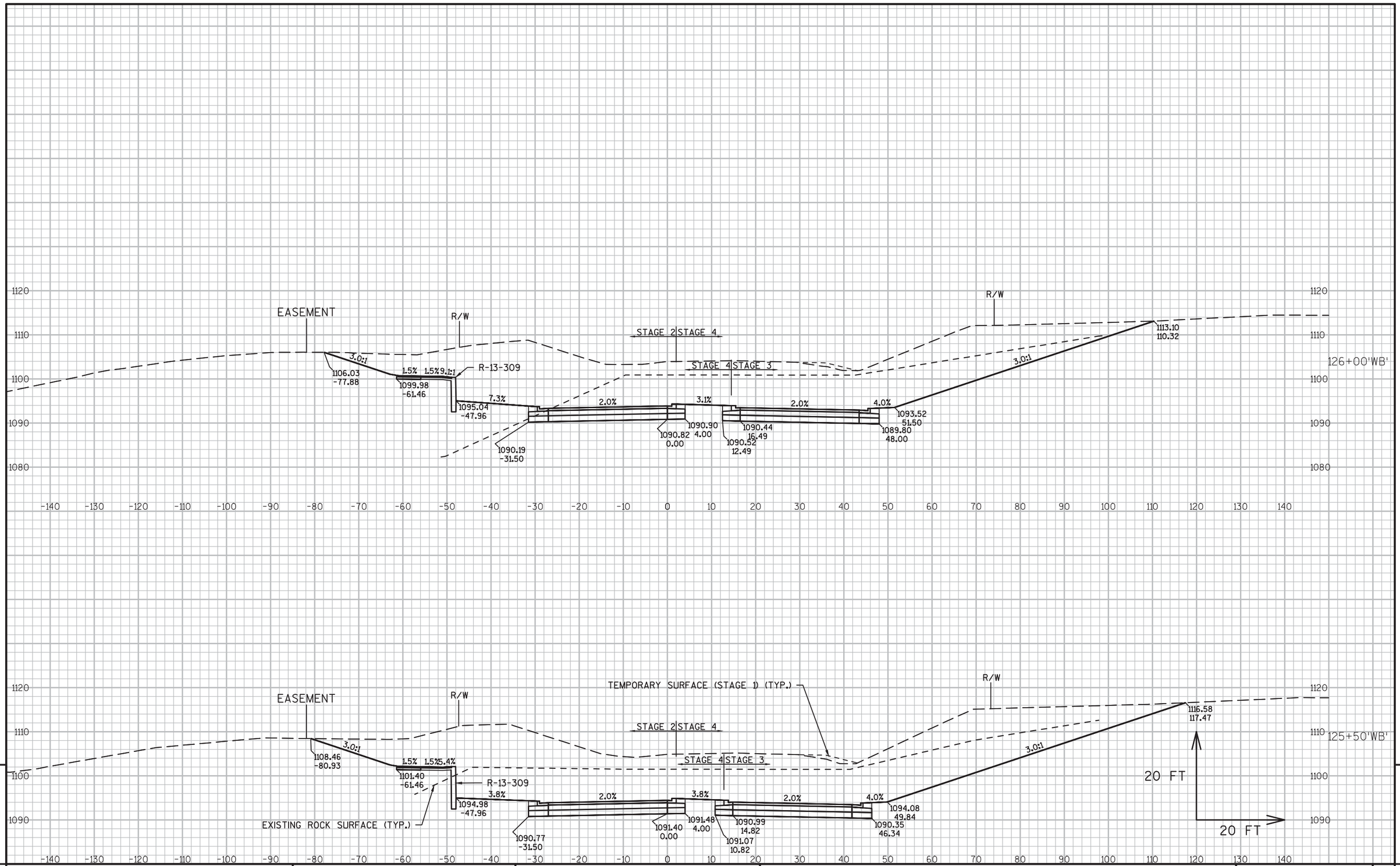
9

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 662	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (13)

PLOT DATE : 12/19/2016 4:06 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

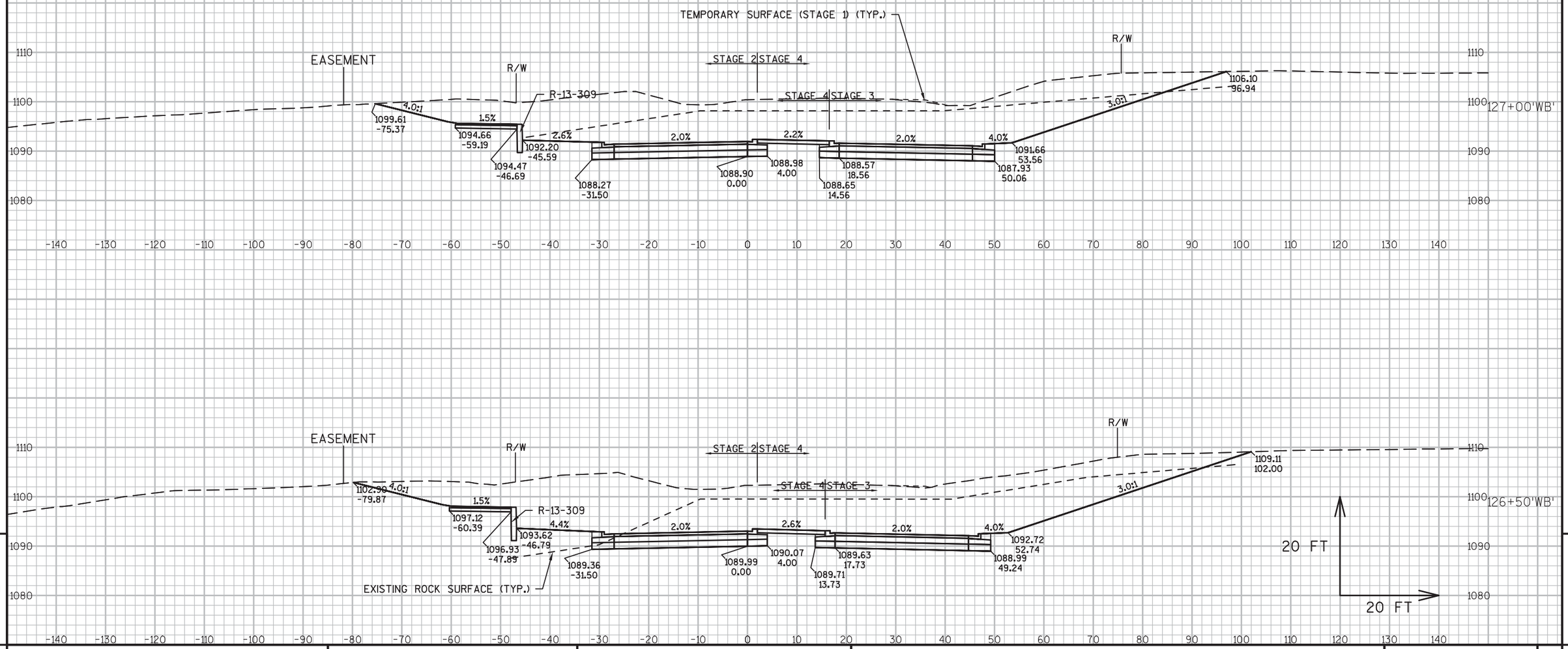
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 663	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (14)

PLOT DATE : 12/19/2016 4:06 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



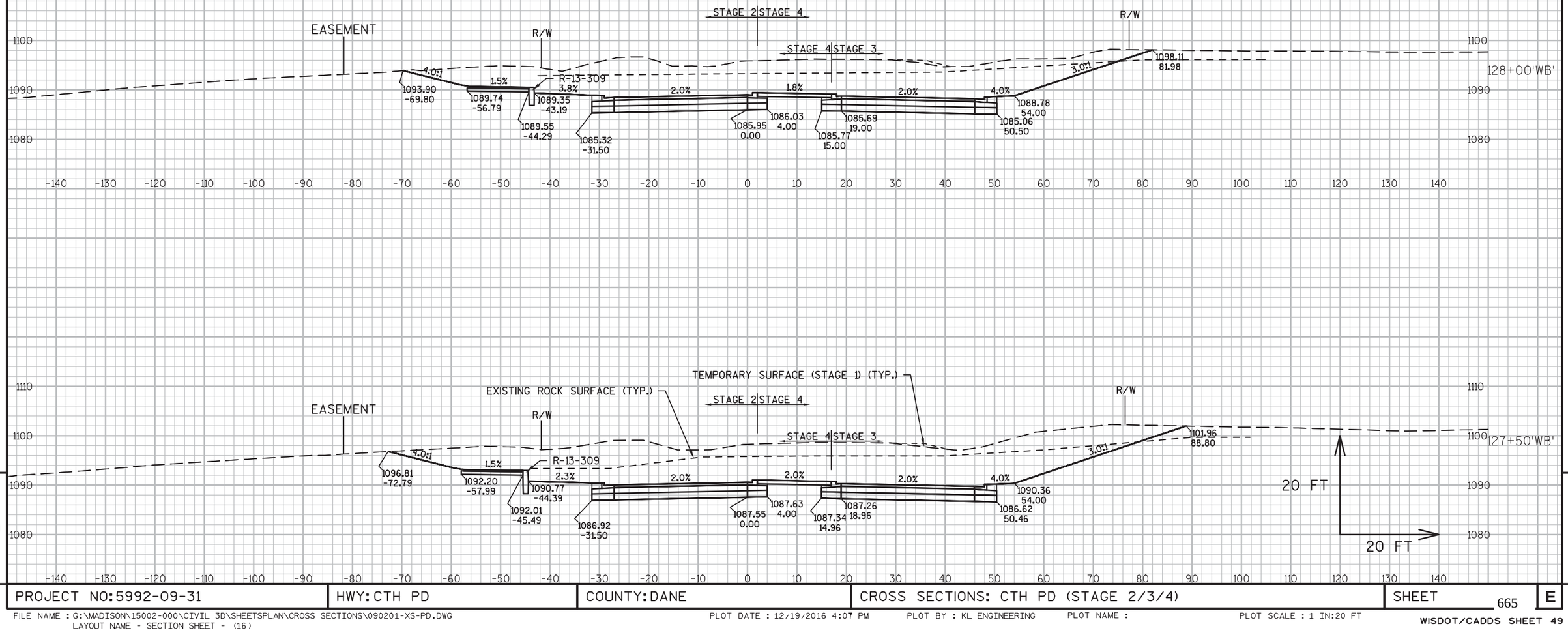
9

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 664	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (15)

PLOT DATE : 12/19/2016 4:06 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

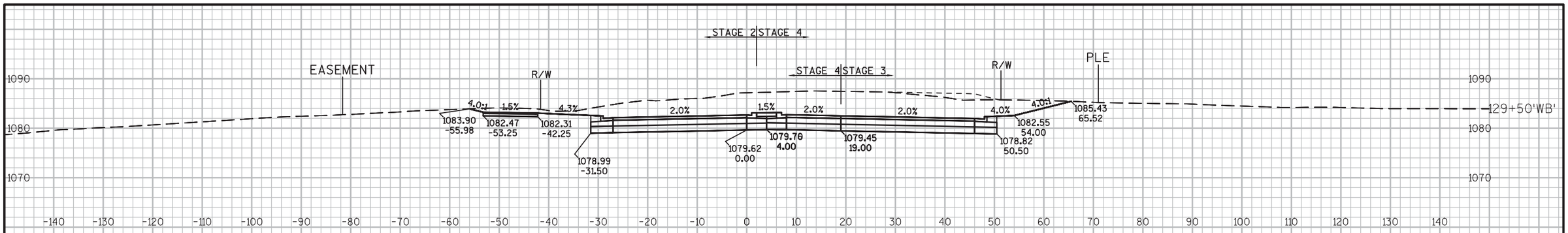
9

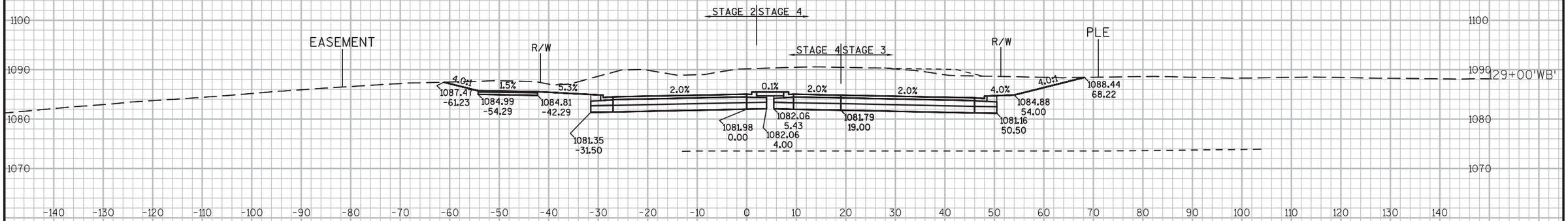
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 665	E

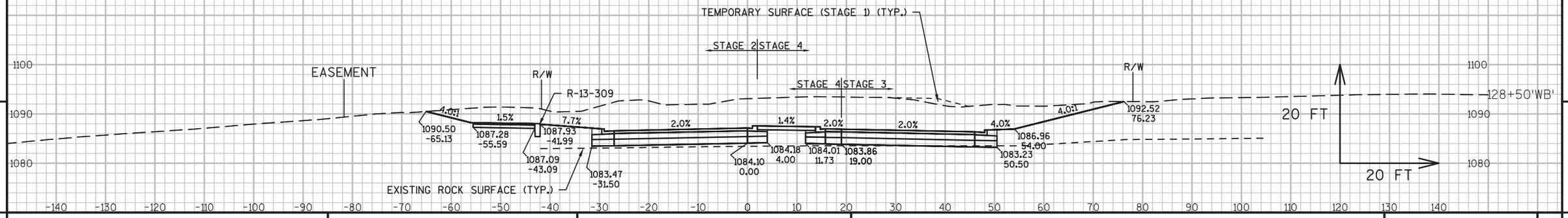
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (16)

PLOT DATE : 12/19/2016 4:07 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







9

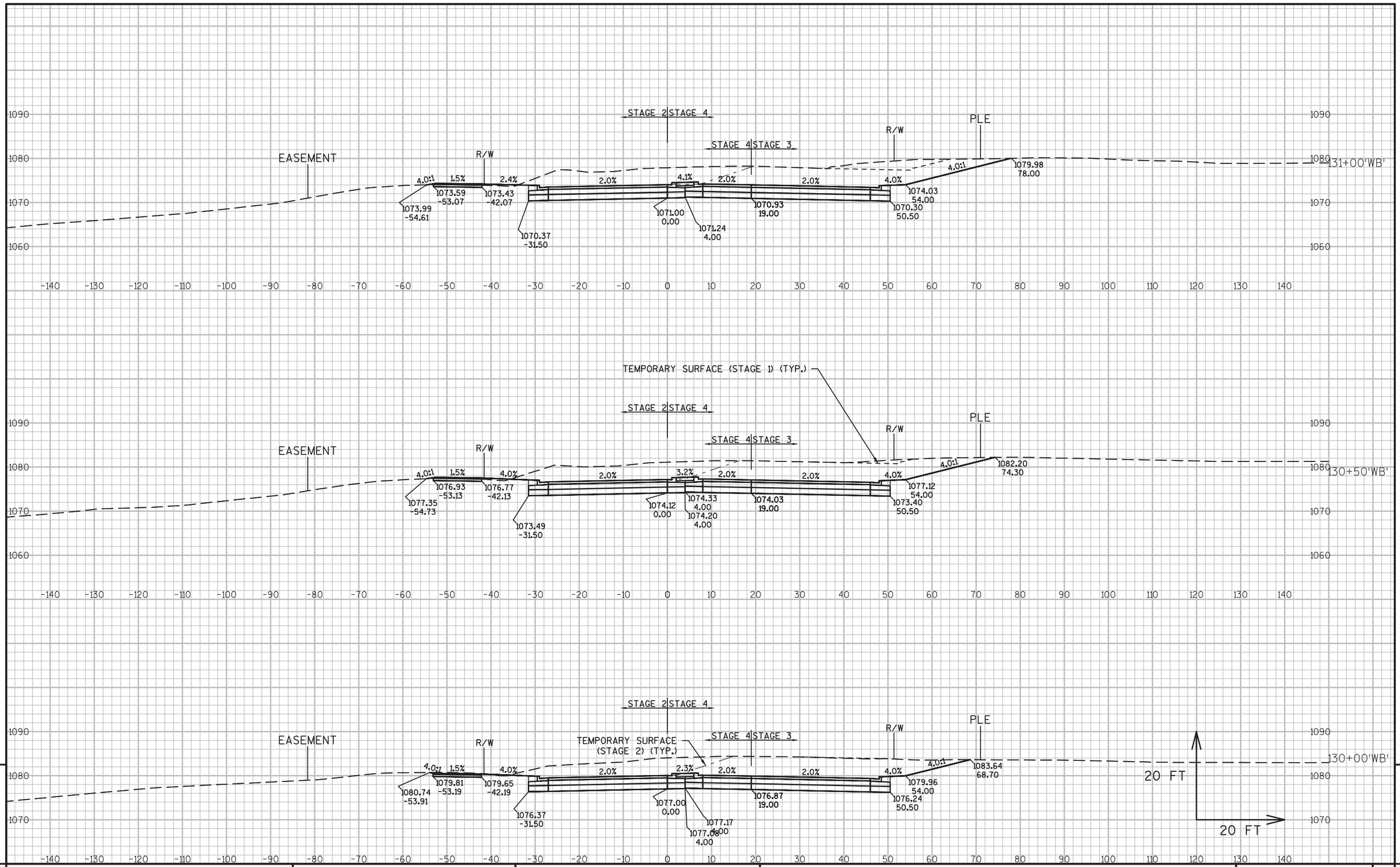
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 666	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (17)

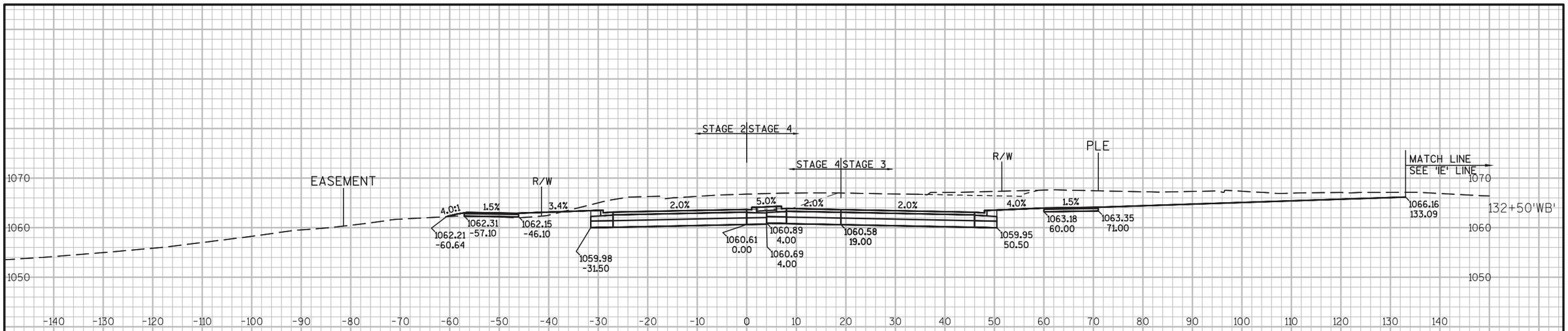
PLOT DATE : 12/19/2016 4:07 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

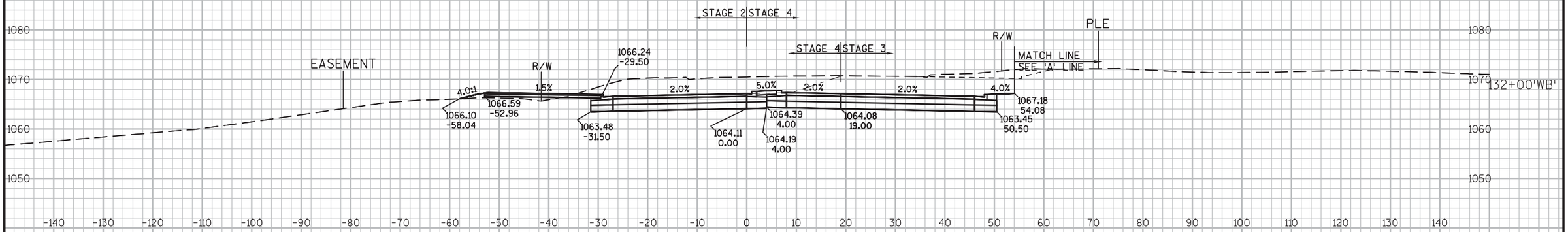
WISDOT/CADDS SHEET 49

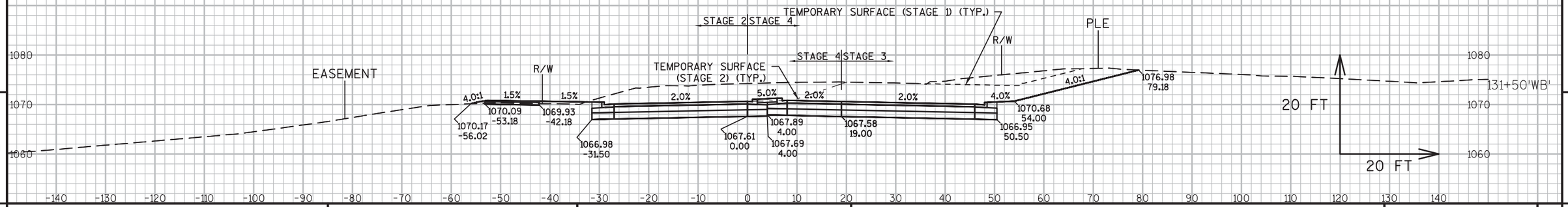


PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 667	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (18)
PLOT DATE : 9/1/2016 10:04 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49







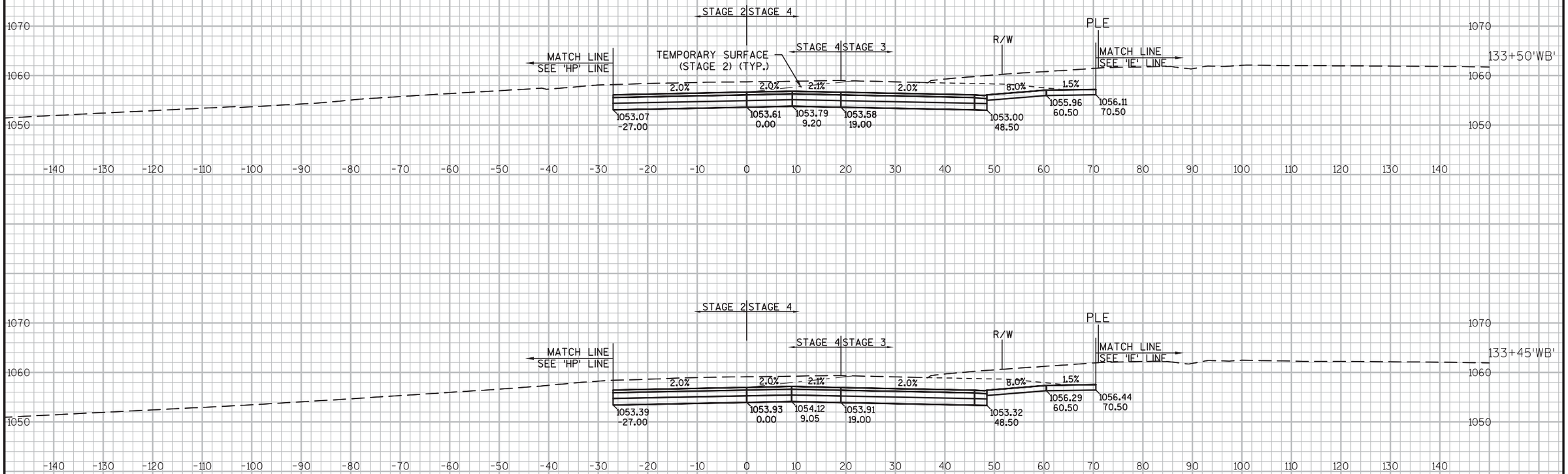
9

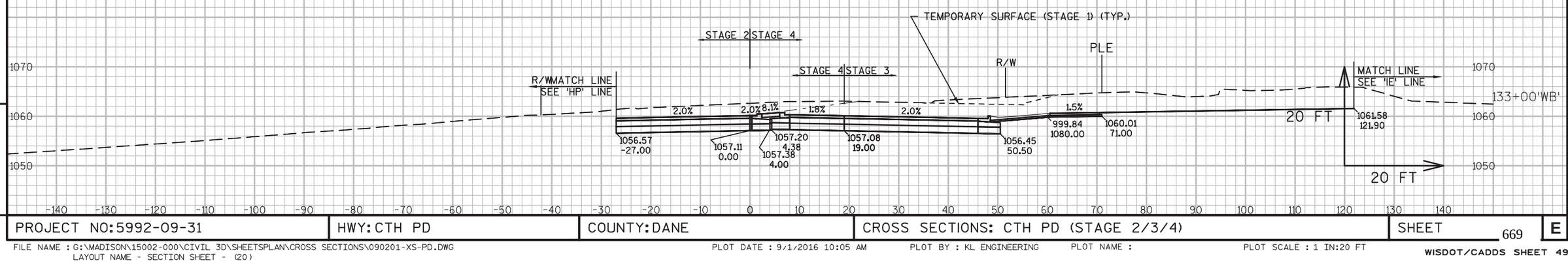
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 668	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (19)

PLOT DATE : 9/1/2016 10:04 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT





9

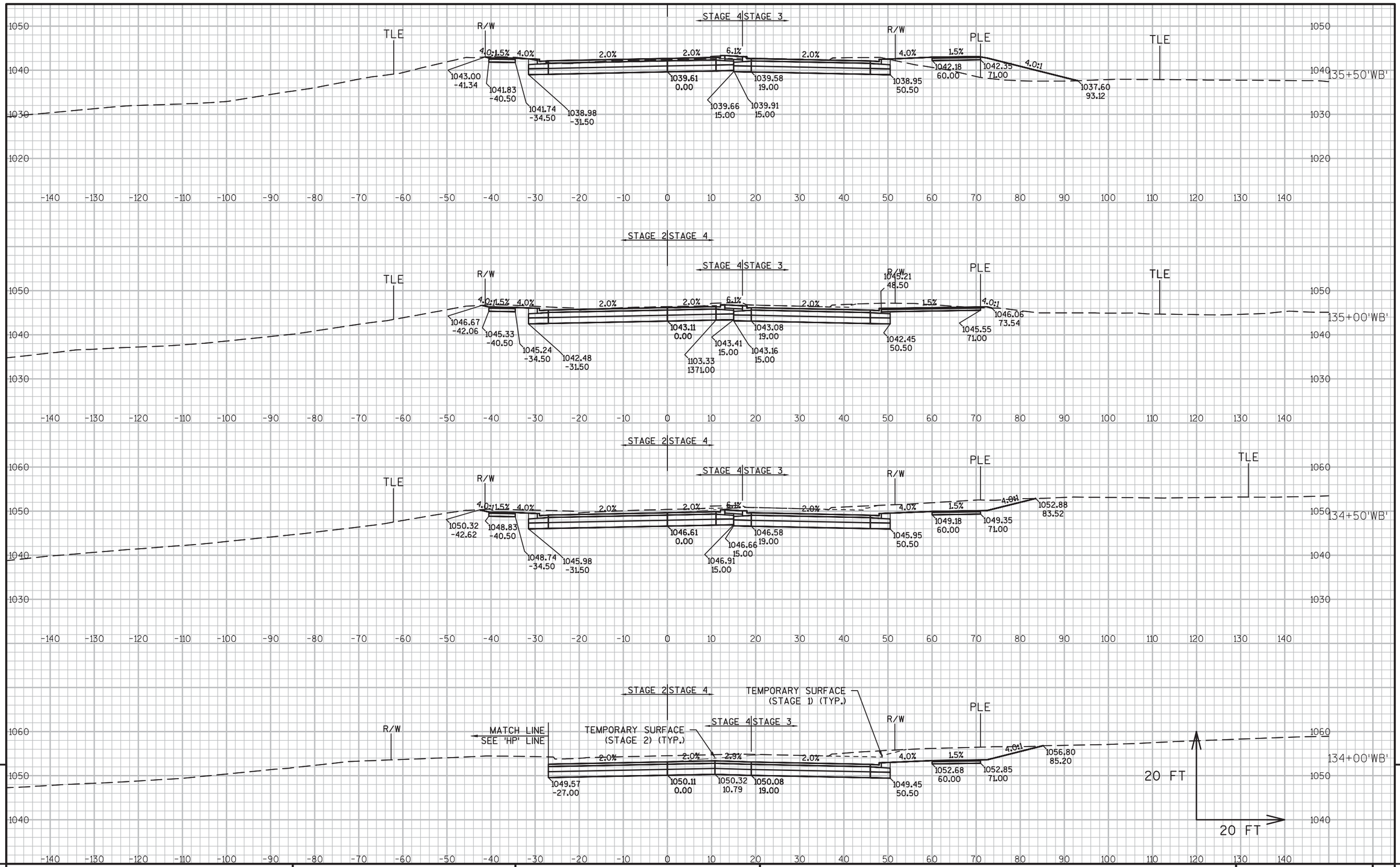
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 669	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (20)

PLOT DATE : 9/1/2016 10:05 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

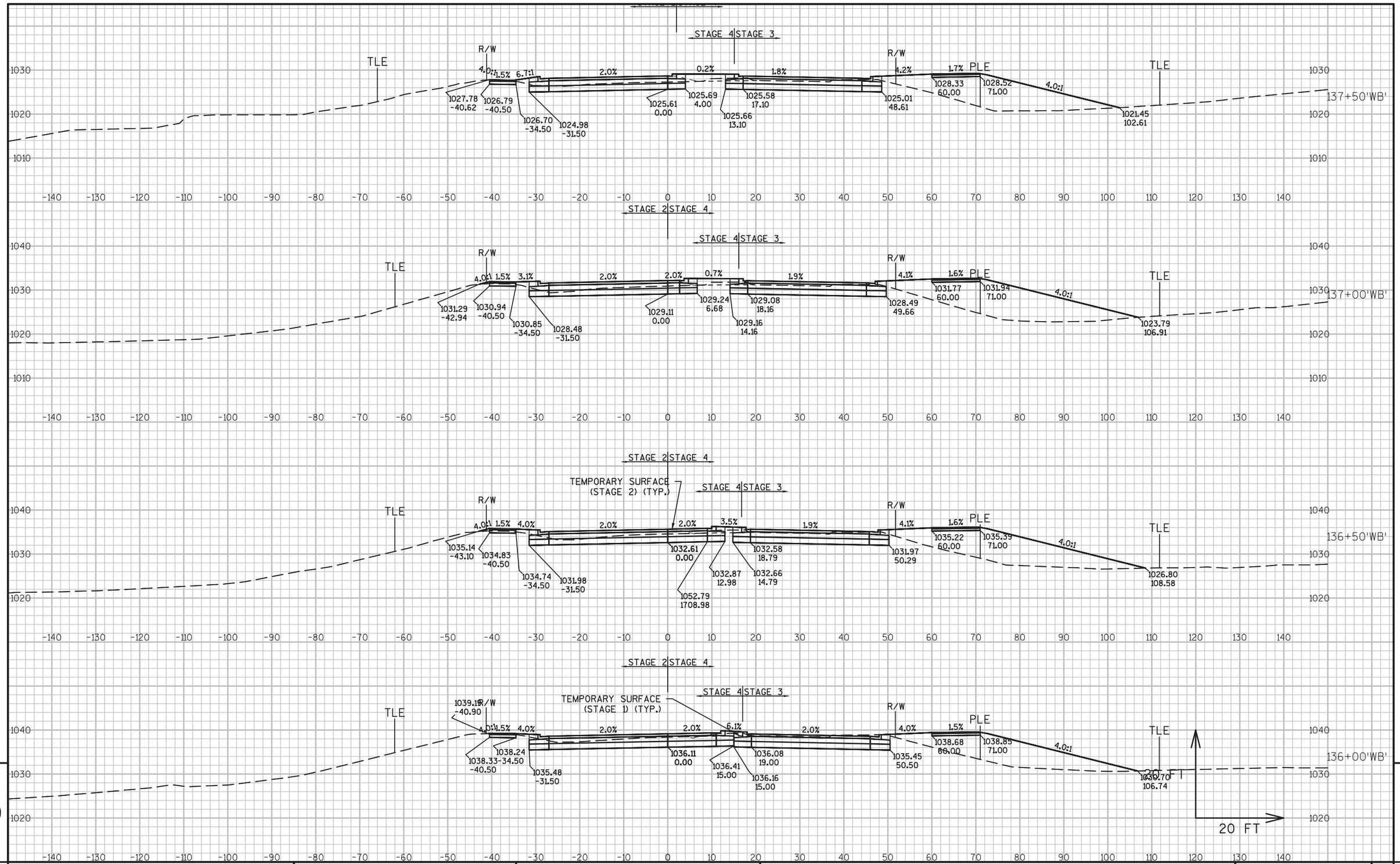


PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 670	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (21)

PLOT DATE : 9/1/2016 10:05 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



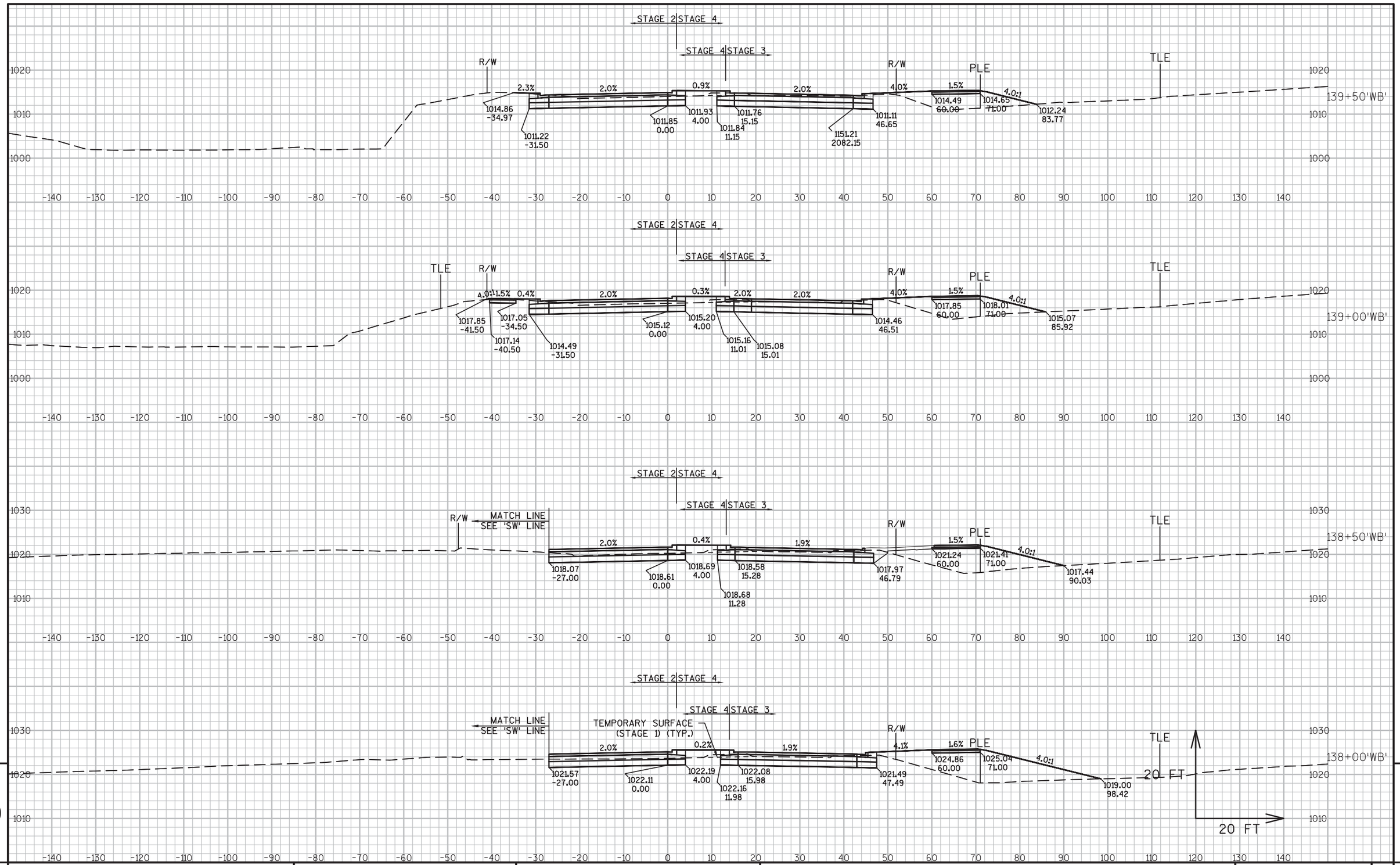
9

9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 671	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (22)

PLOT DATE : 9/1/2016 10:06 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

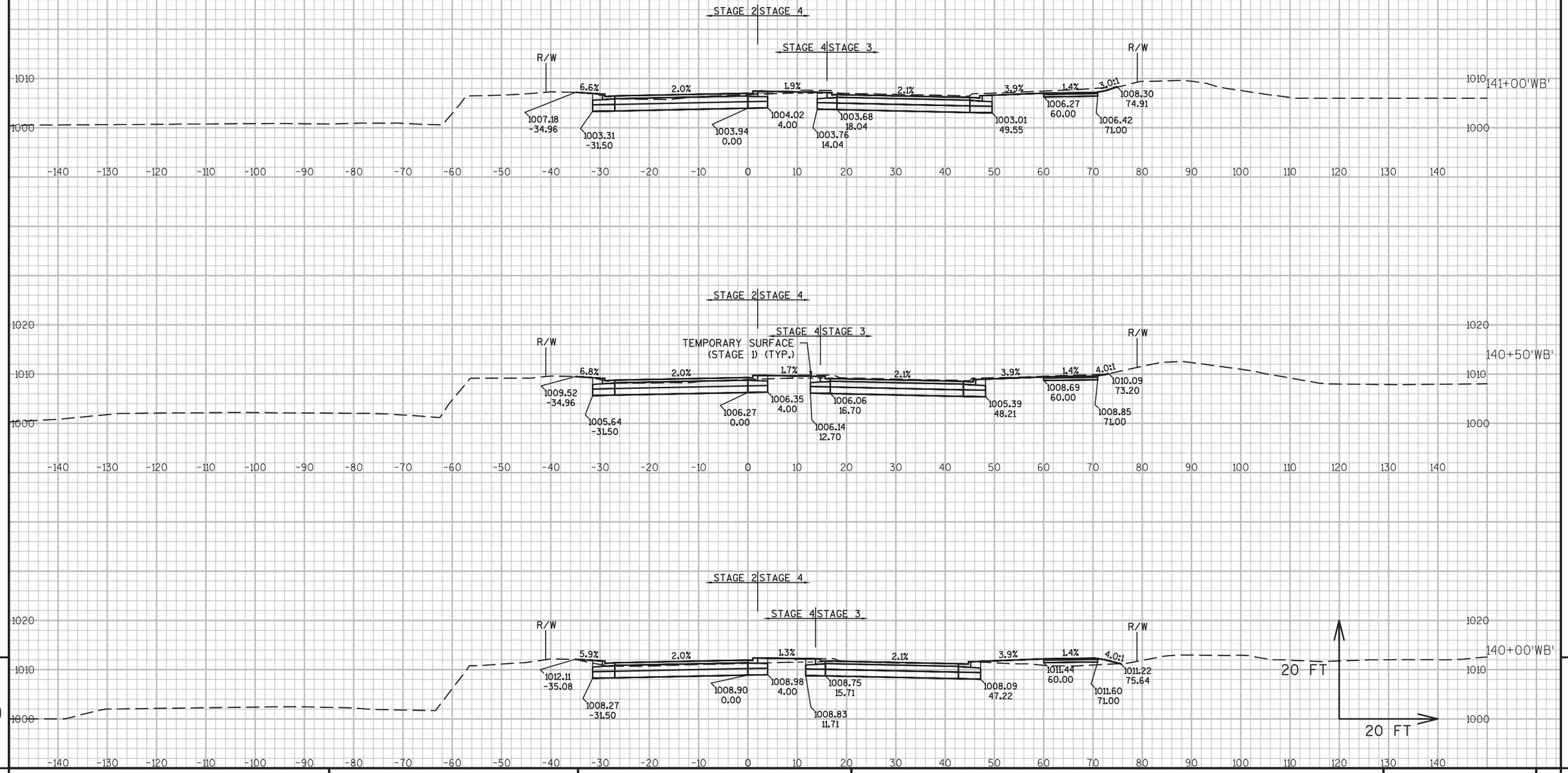


PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 672	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (23)

PLOT DATE : 9/1/2016 10:06 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

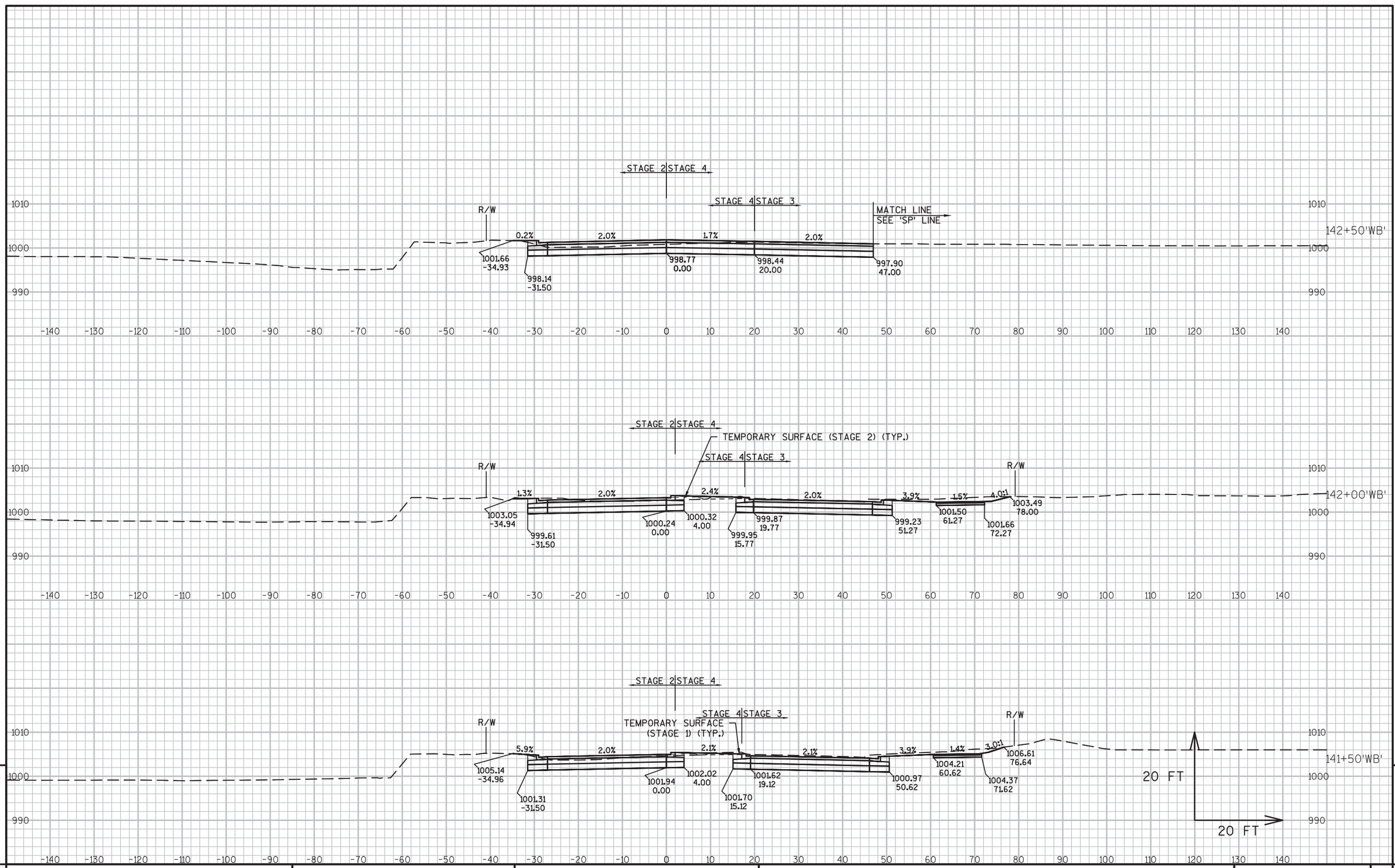
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 673	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (24)

PLOT DATE : 9/1/2016 10:06 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

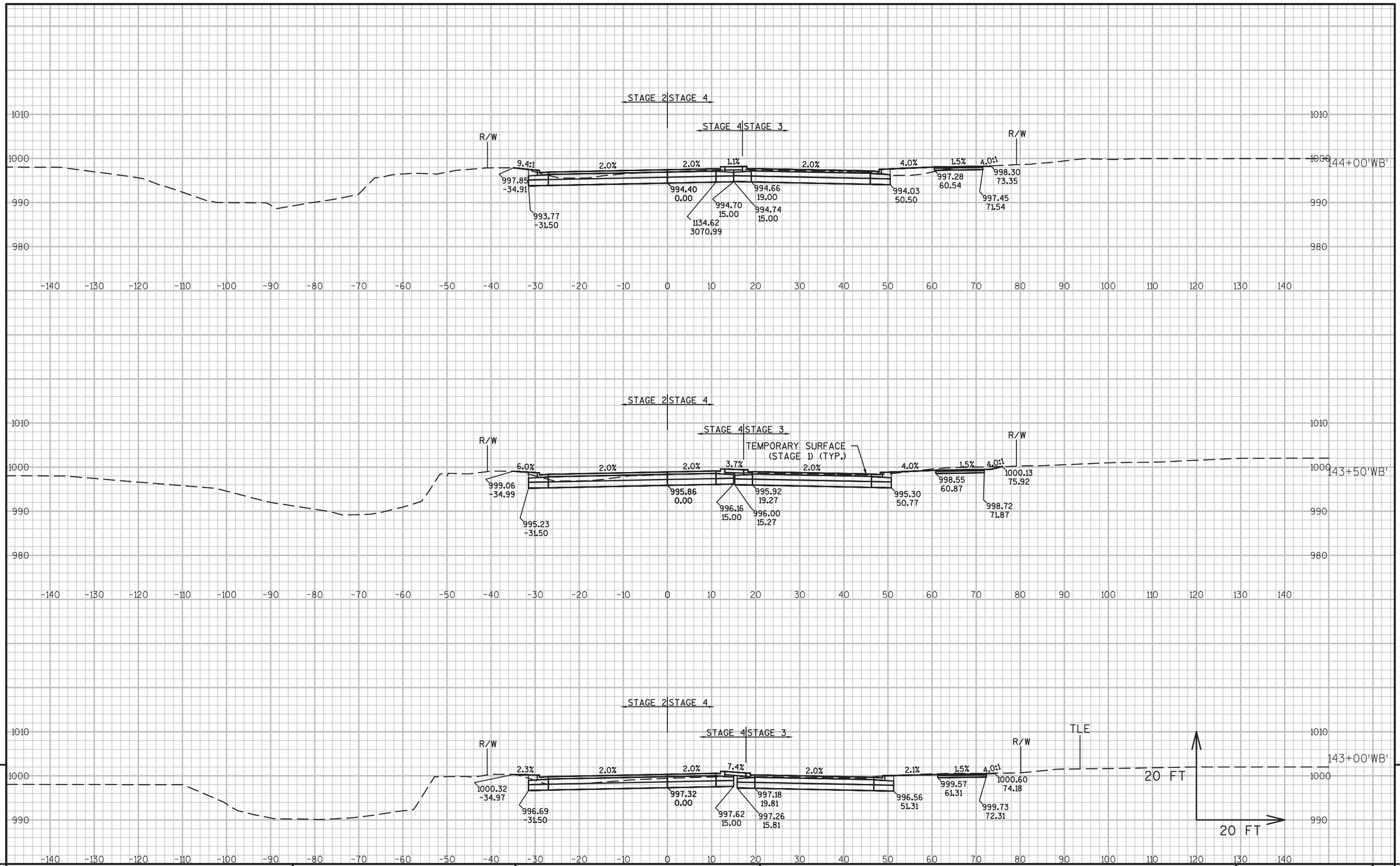
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 674	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (25)

PLOT DATE : 9/1/2016 10:07 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



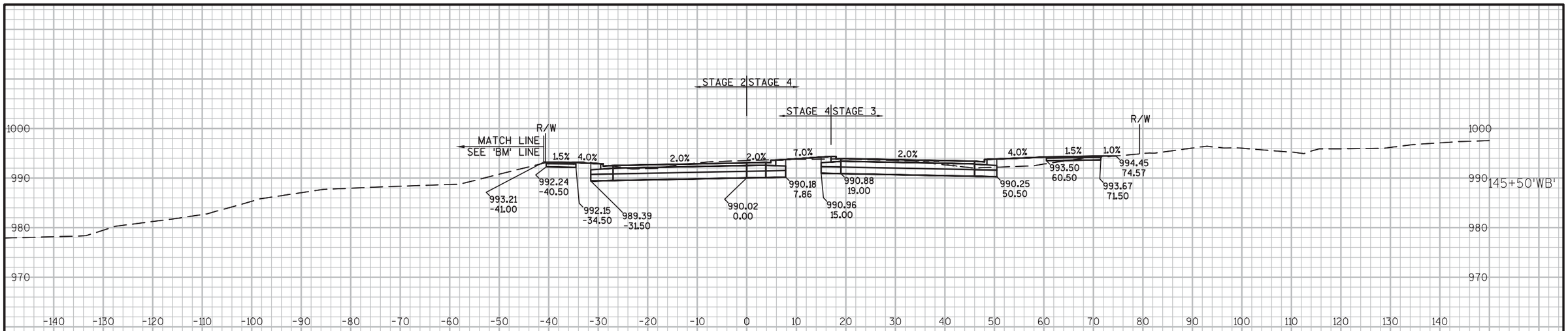
9

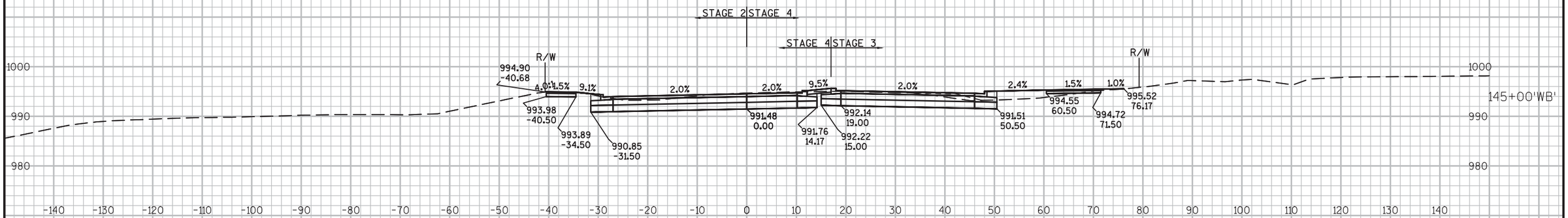
9

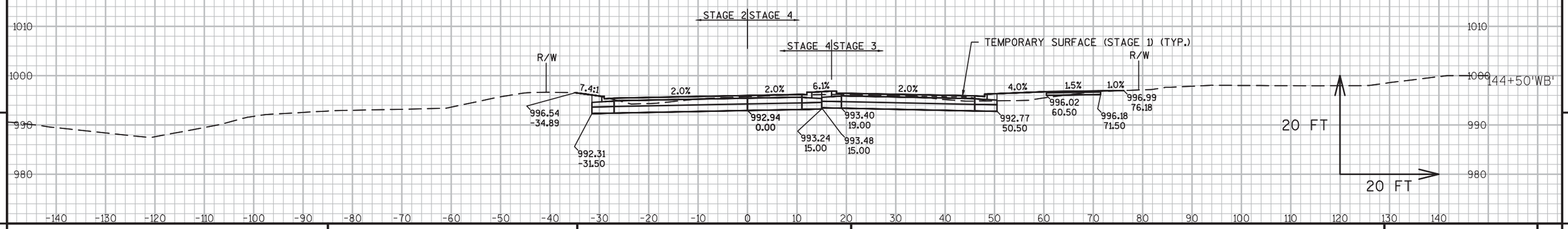
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 675	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (26)

PLOT DATE : 9/1/2016 10:07 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT







9

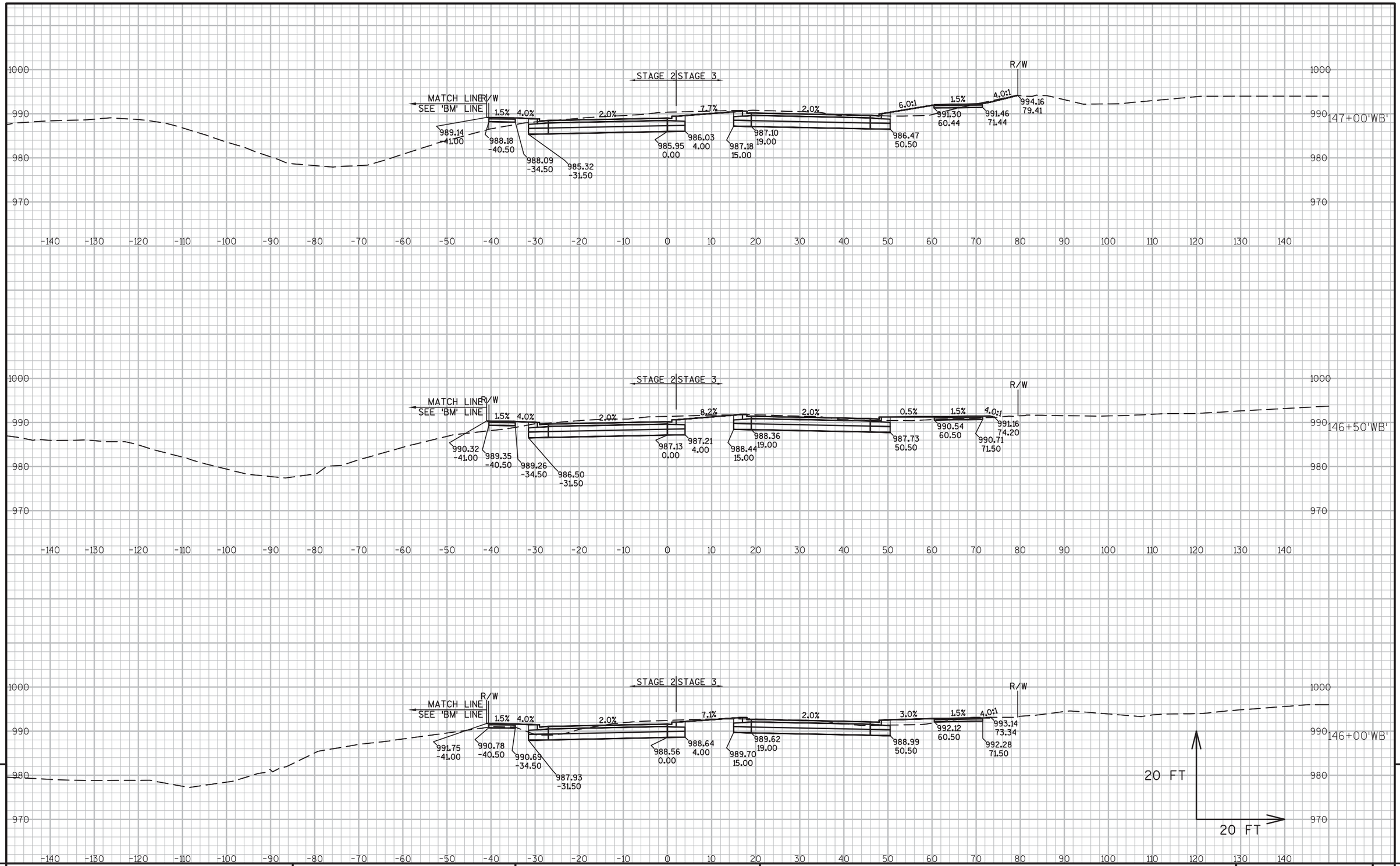
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 676	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (27)

PLOT DATE : 9/1/2016 10:08 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

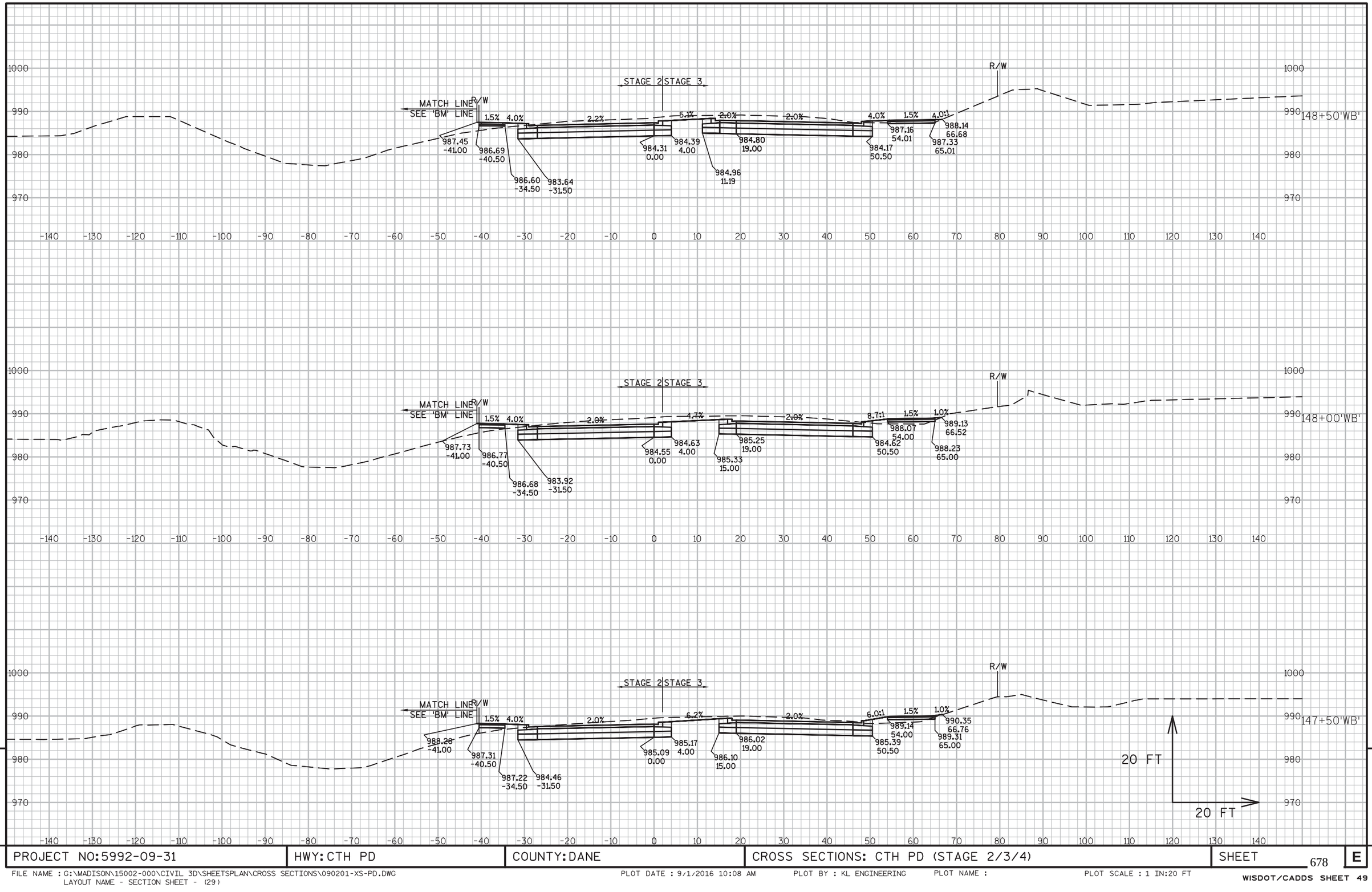


PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 677	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (28)

PLOT DATE : 9/1/2016 10:08 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

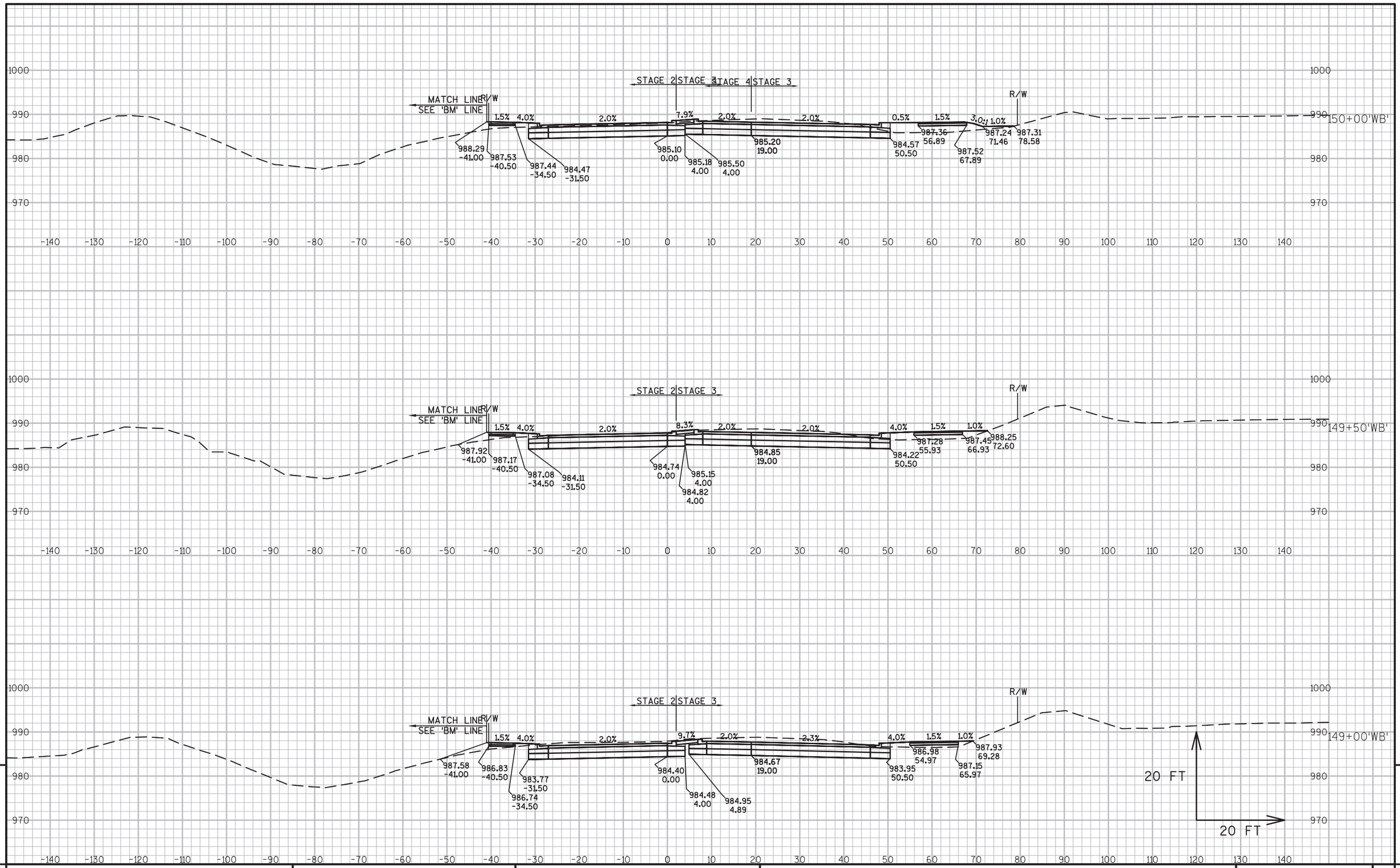
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 678	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (29)

PLOT DATE : 9/1/2016 10:08 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



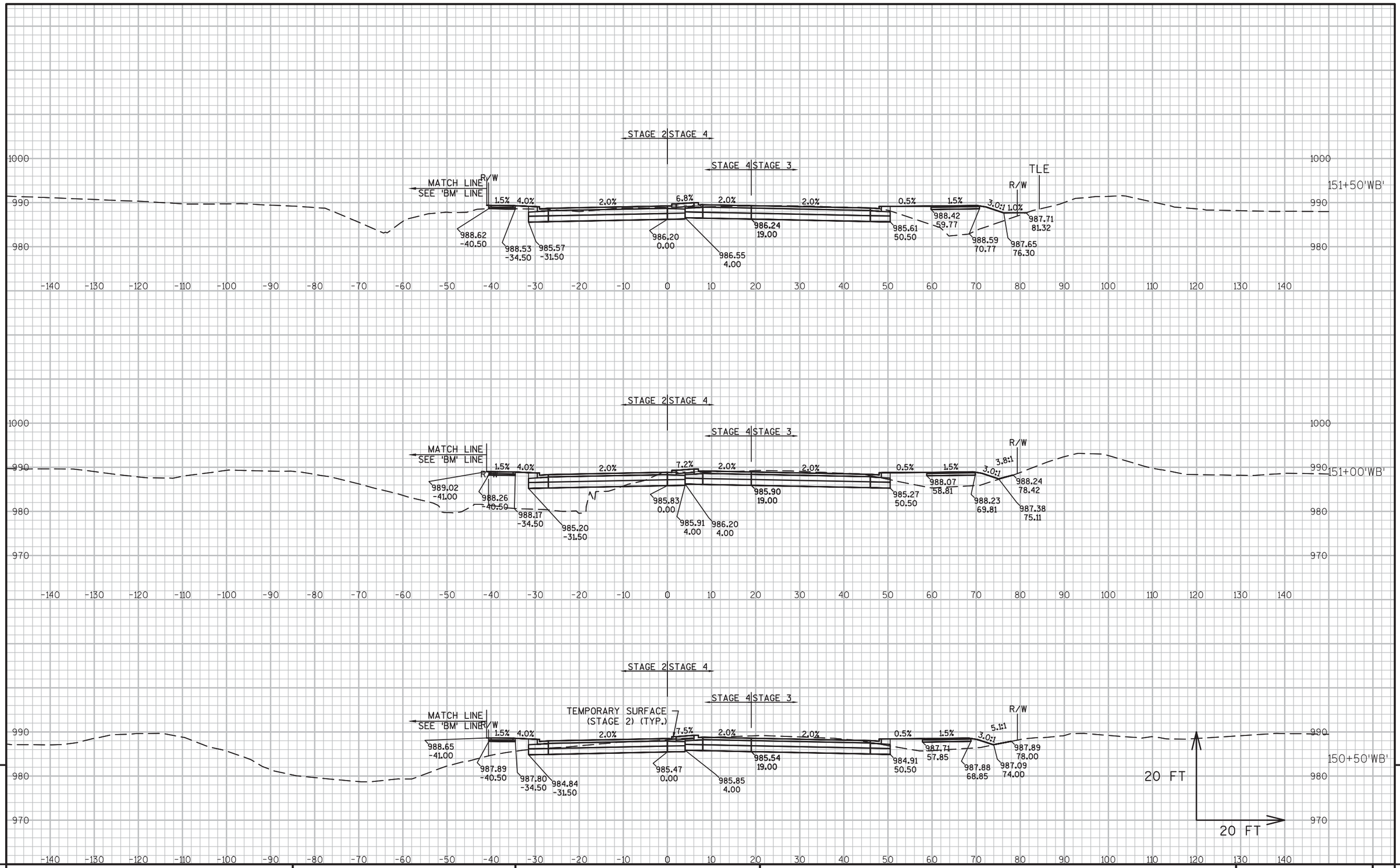
9

9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 679	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (30)

PLOT DATE : 9/1/2016 10:09 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

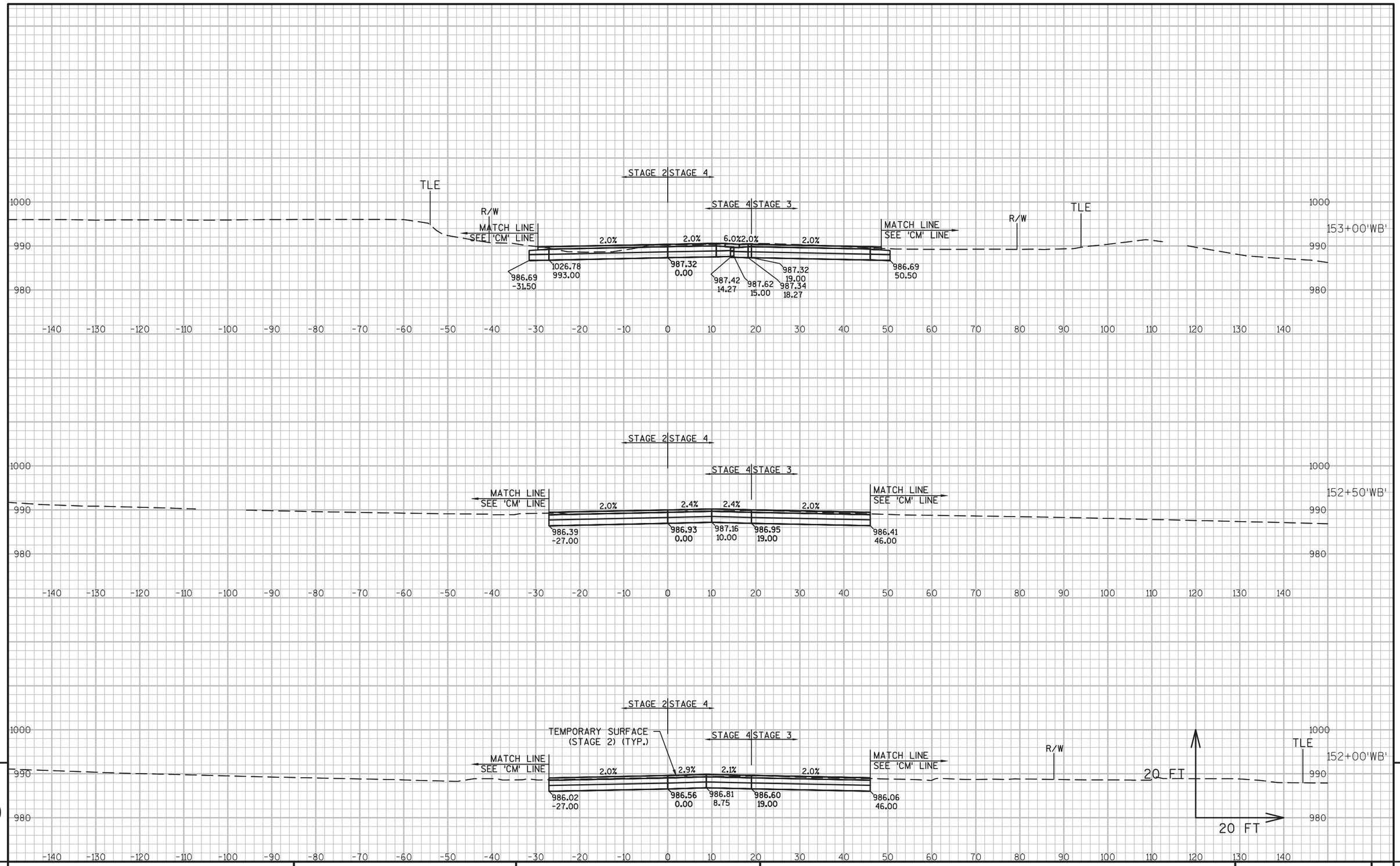


PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 680	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (31)

PLOT DATE : 9/1/2016 10:09 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

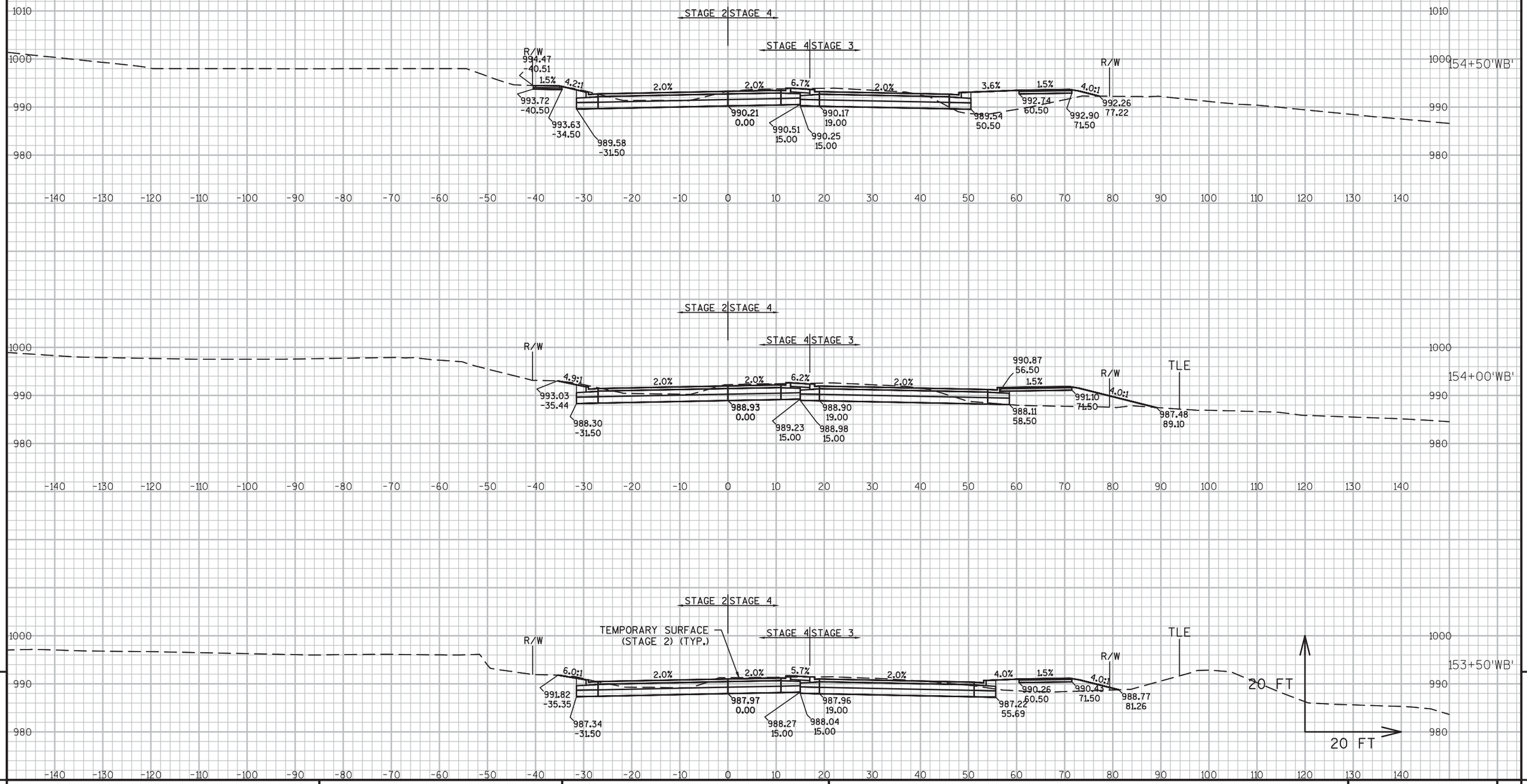


PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 681	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (32)

PLOT DATE : 9/1/2016 10:09 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



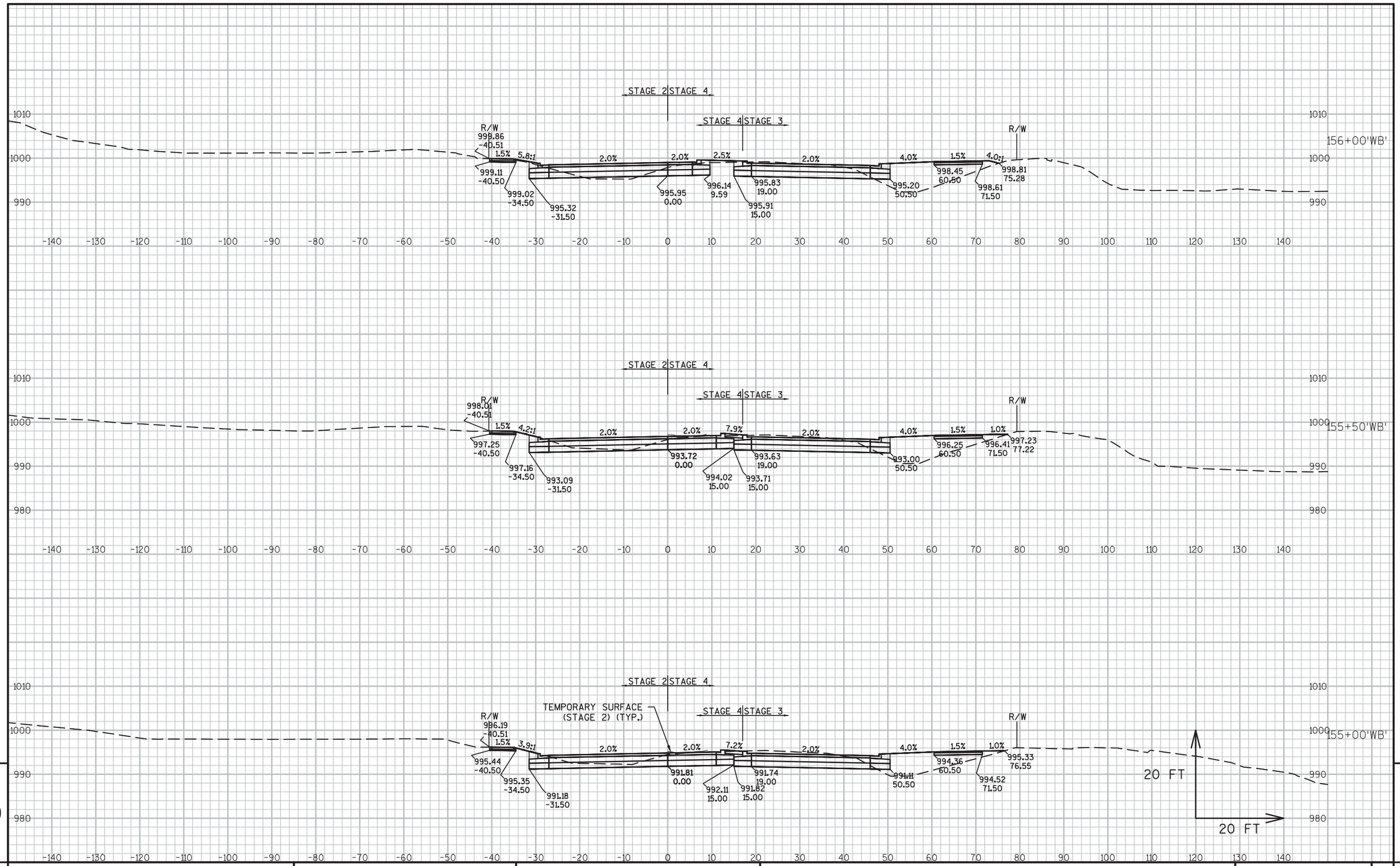
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET	E

682

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (33)

PLOT DATE : 9/1/2016 10:10 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

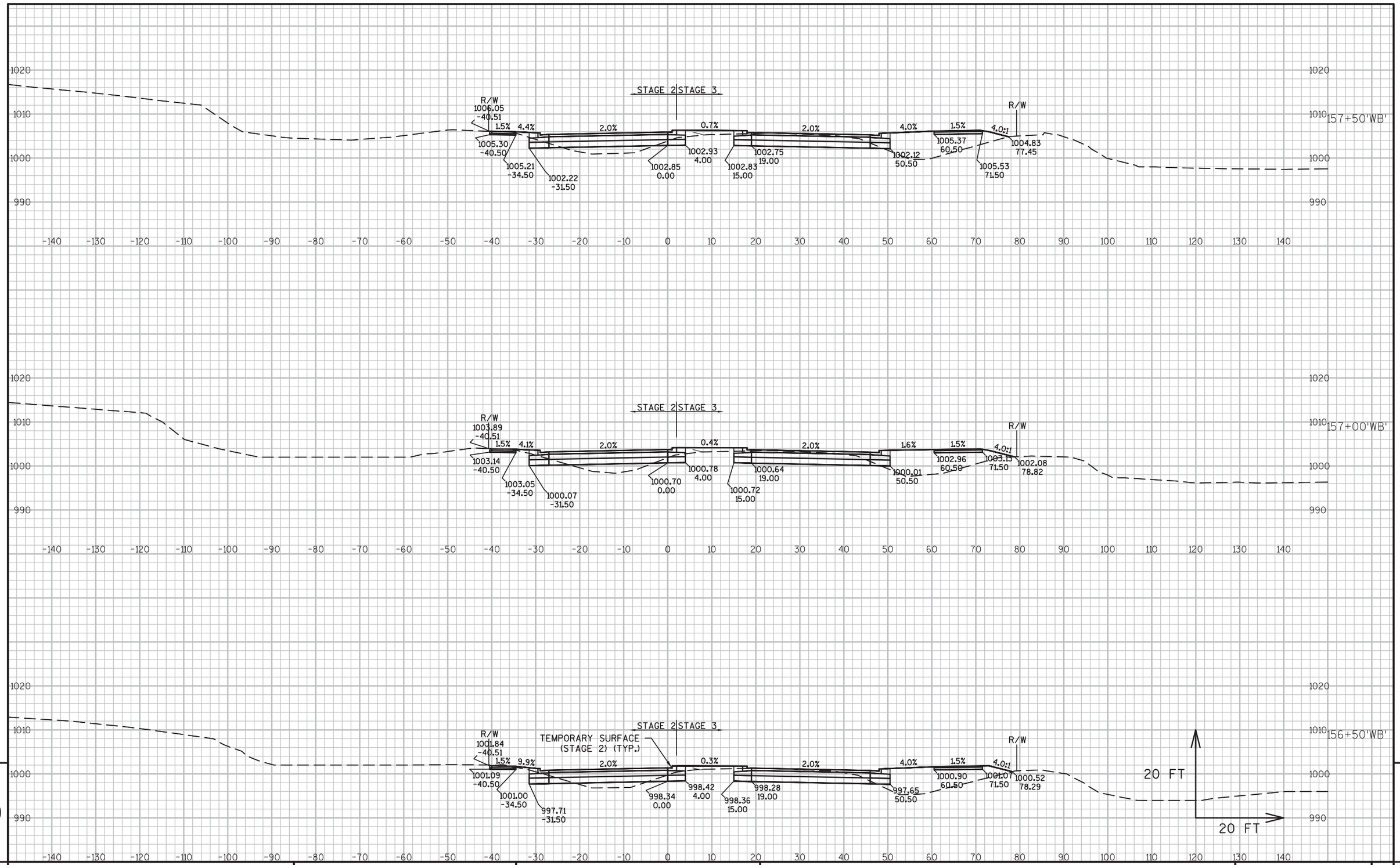


PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 683	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (34)

PLOT DATE : 9/1/2016 10:10 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

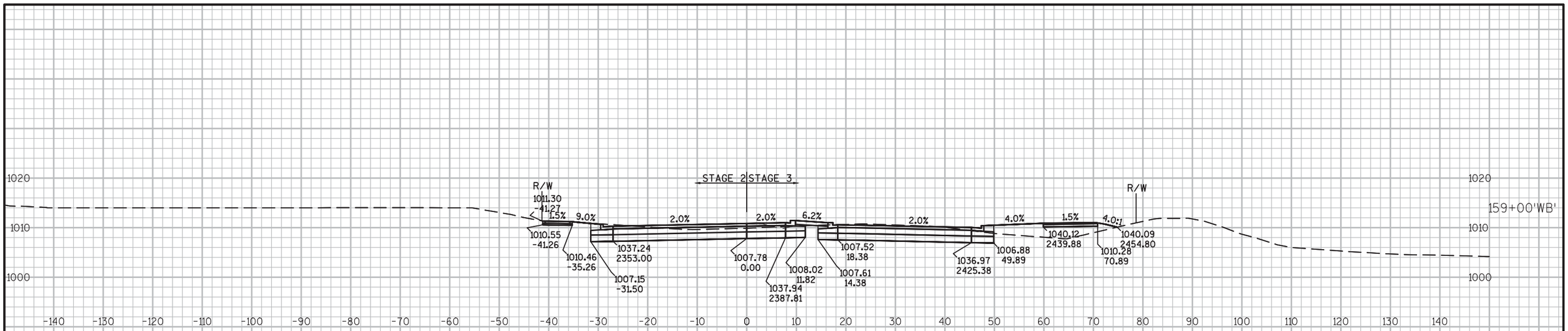
9

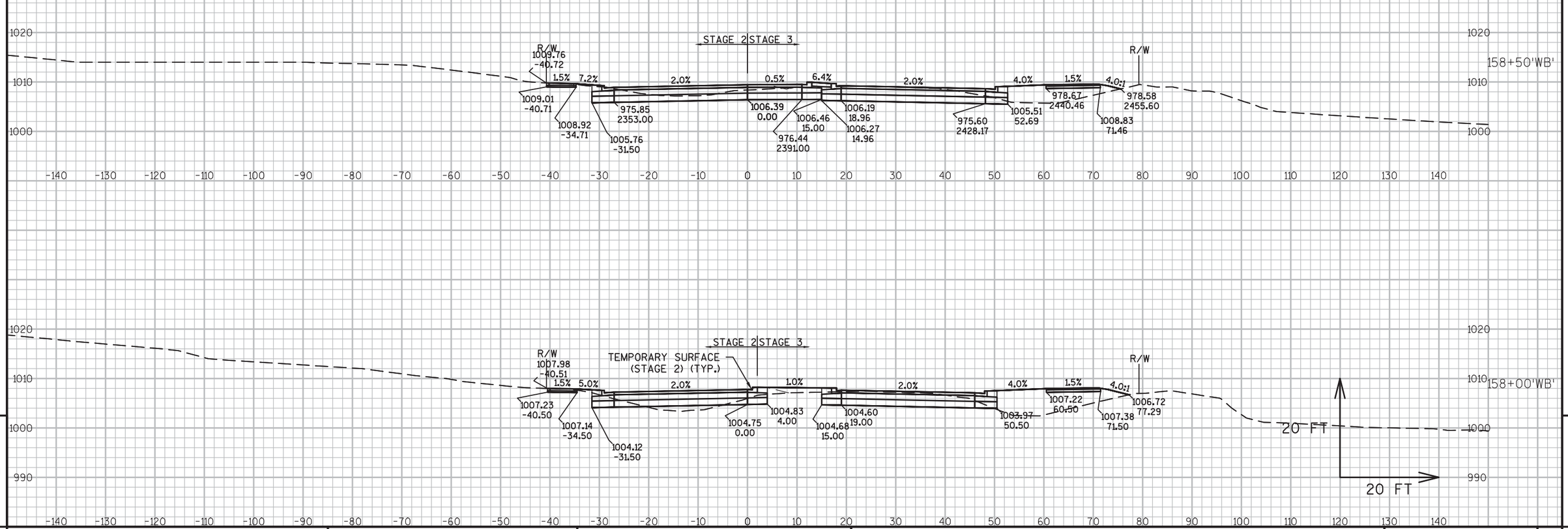
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 684	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (35)

PLOT DATE : 9/1/2016 10:10 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49





9

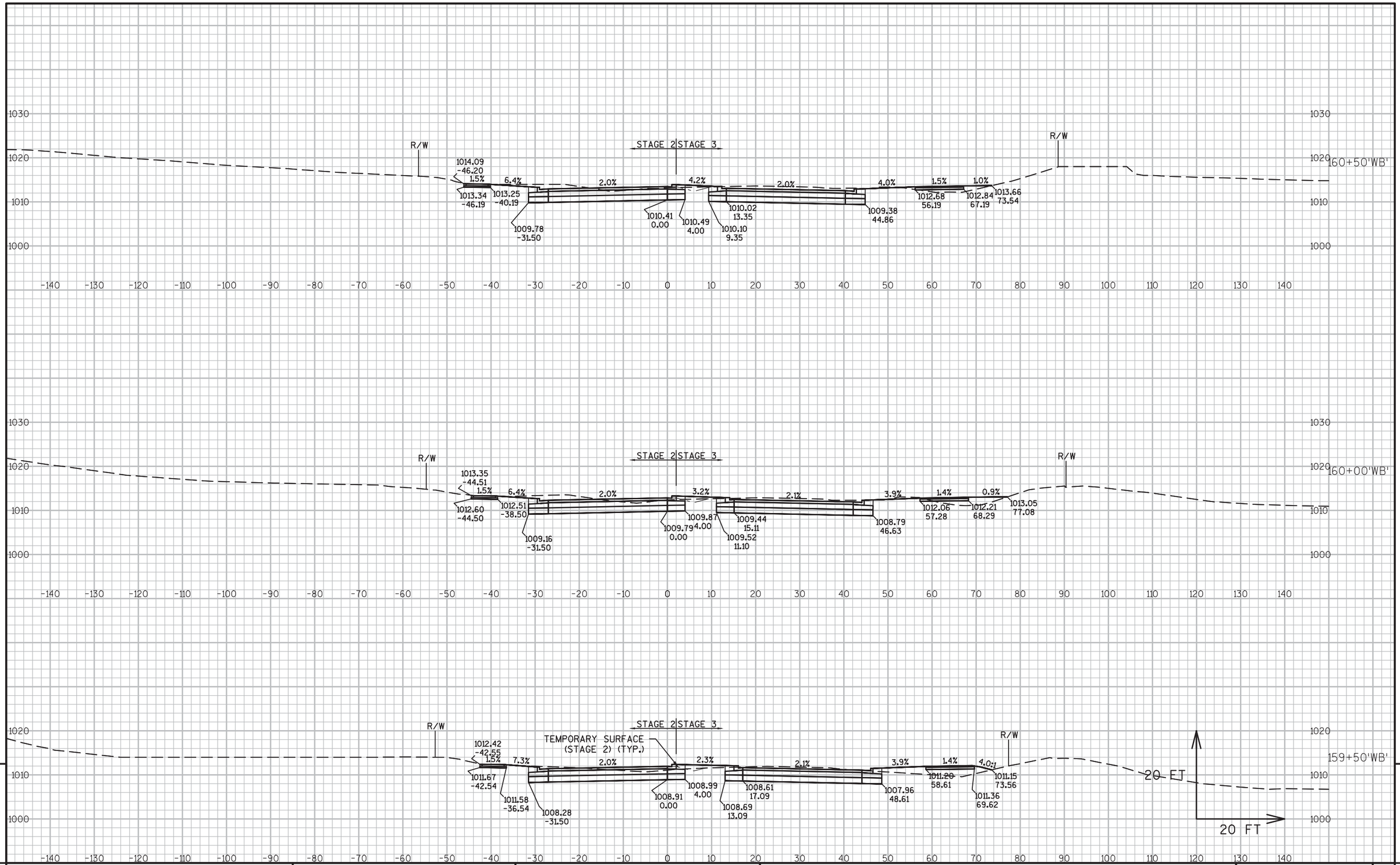
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 685	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (36)

PLOT DATE : 9/1/2016 10:11 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

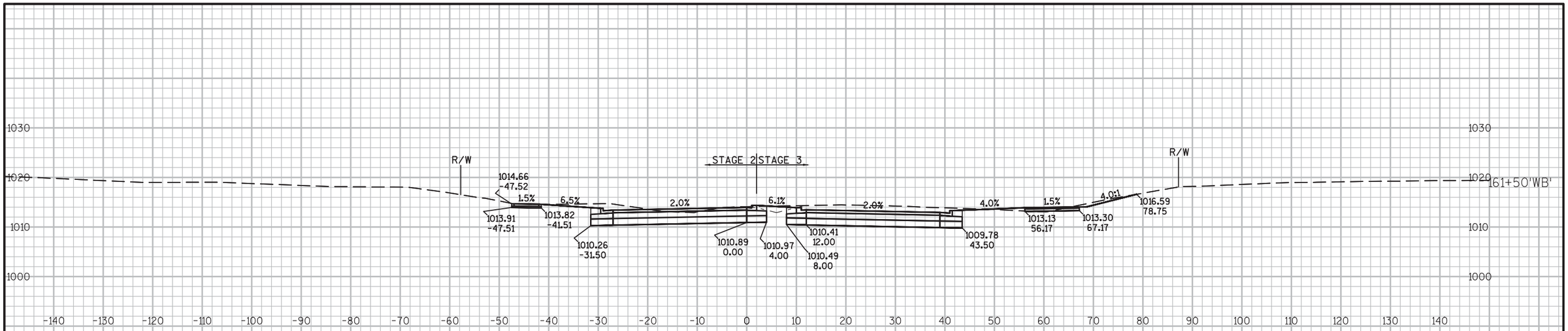
9

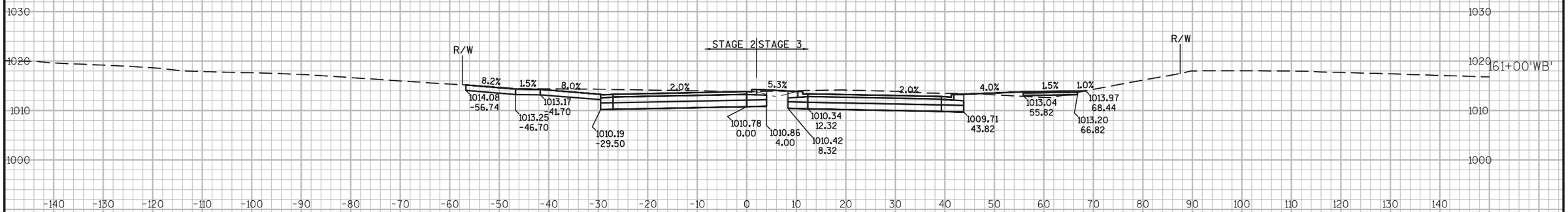
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 686	E

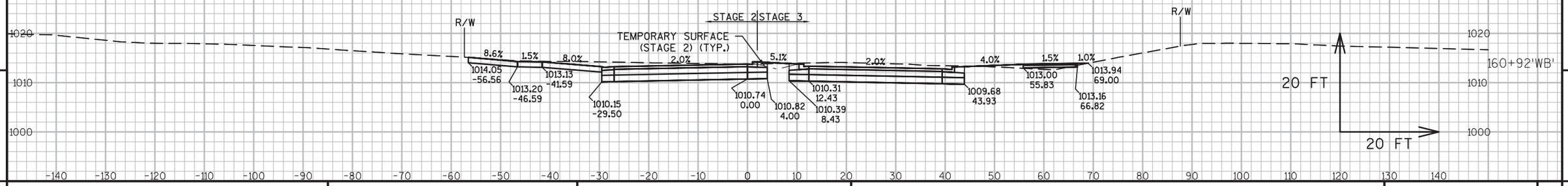
FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (37)

PLOT DATE : 9/1/2016 10:11 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







9

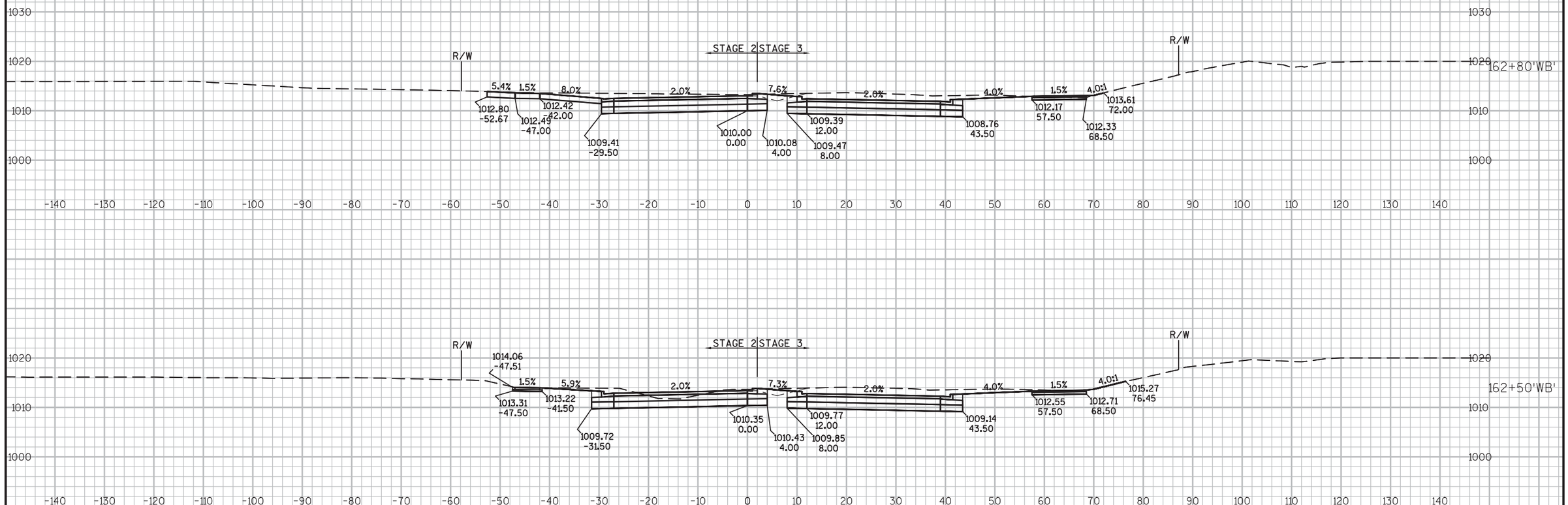
9

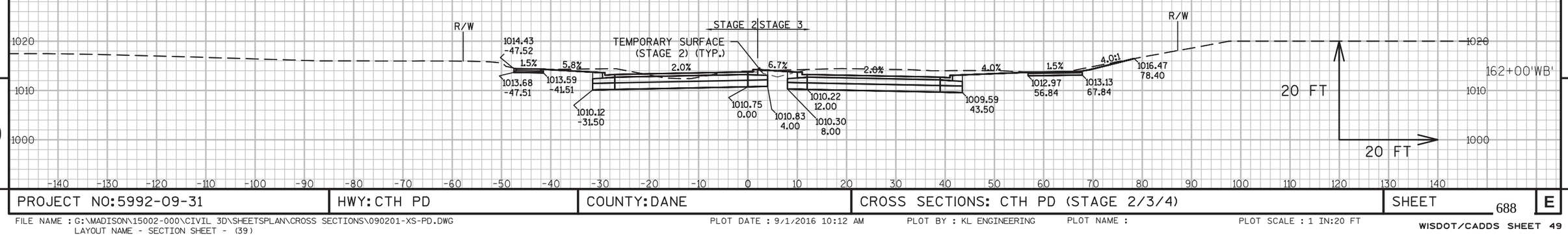
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 687	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (38)

PLOT DATE : 9/1/2016 10:11 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49





9

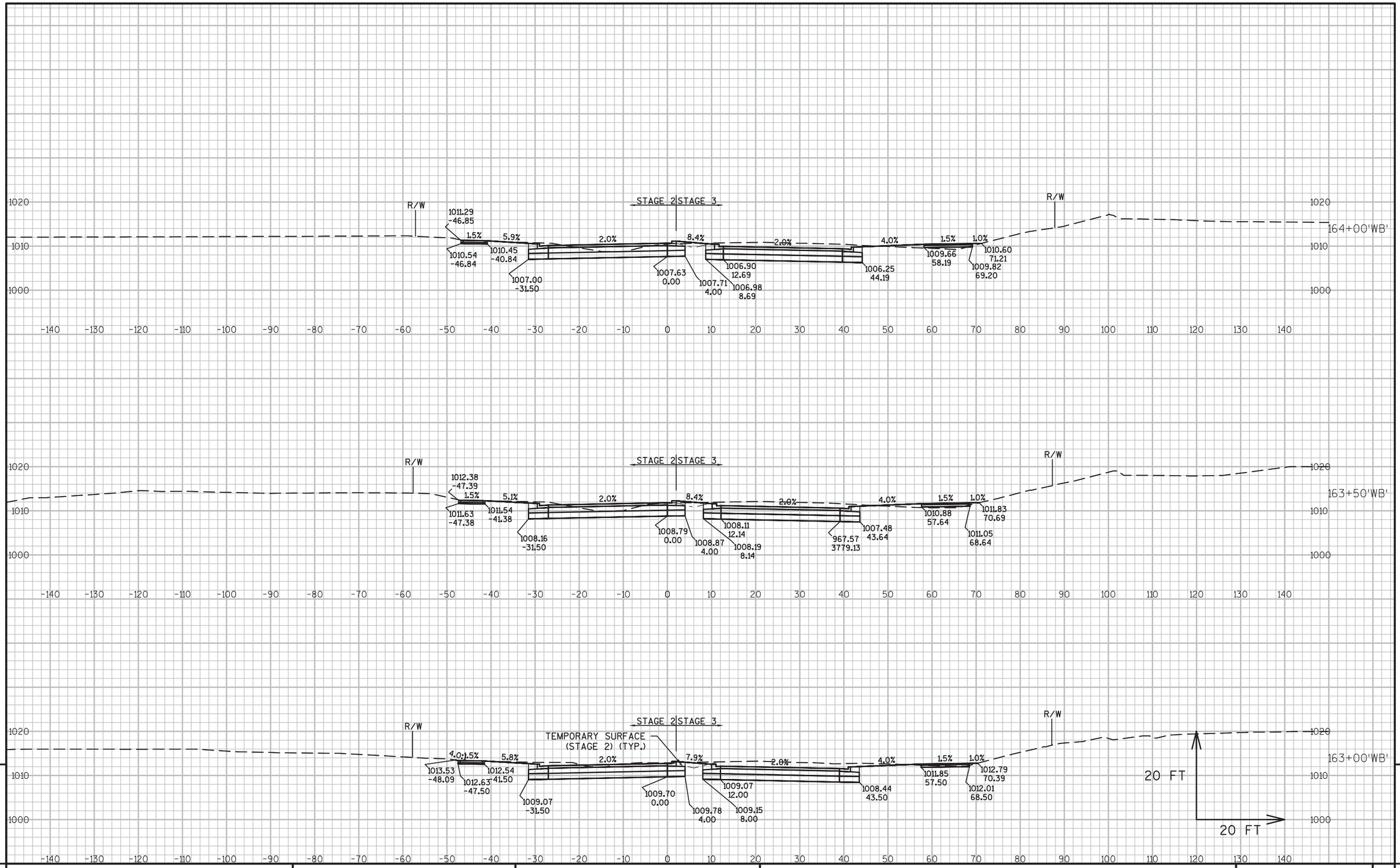
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 688	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (39)

PLOT DATE : 9/1/2016 10:12 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



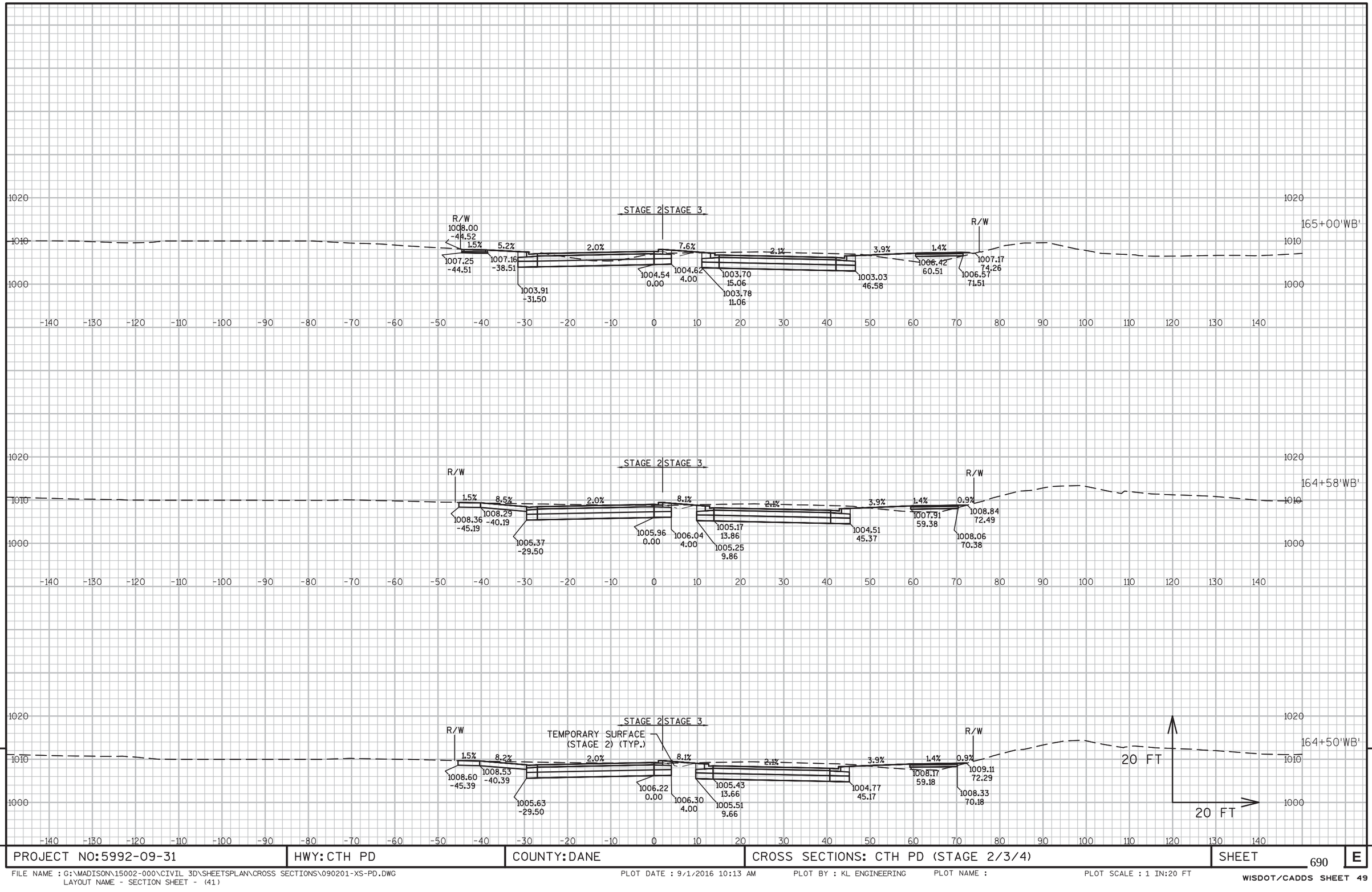
9

9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 689	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (40)

PLOT DATE : 9/1/2016 10:12 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



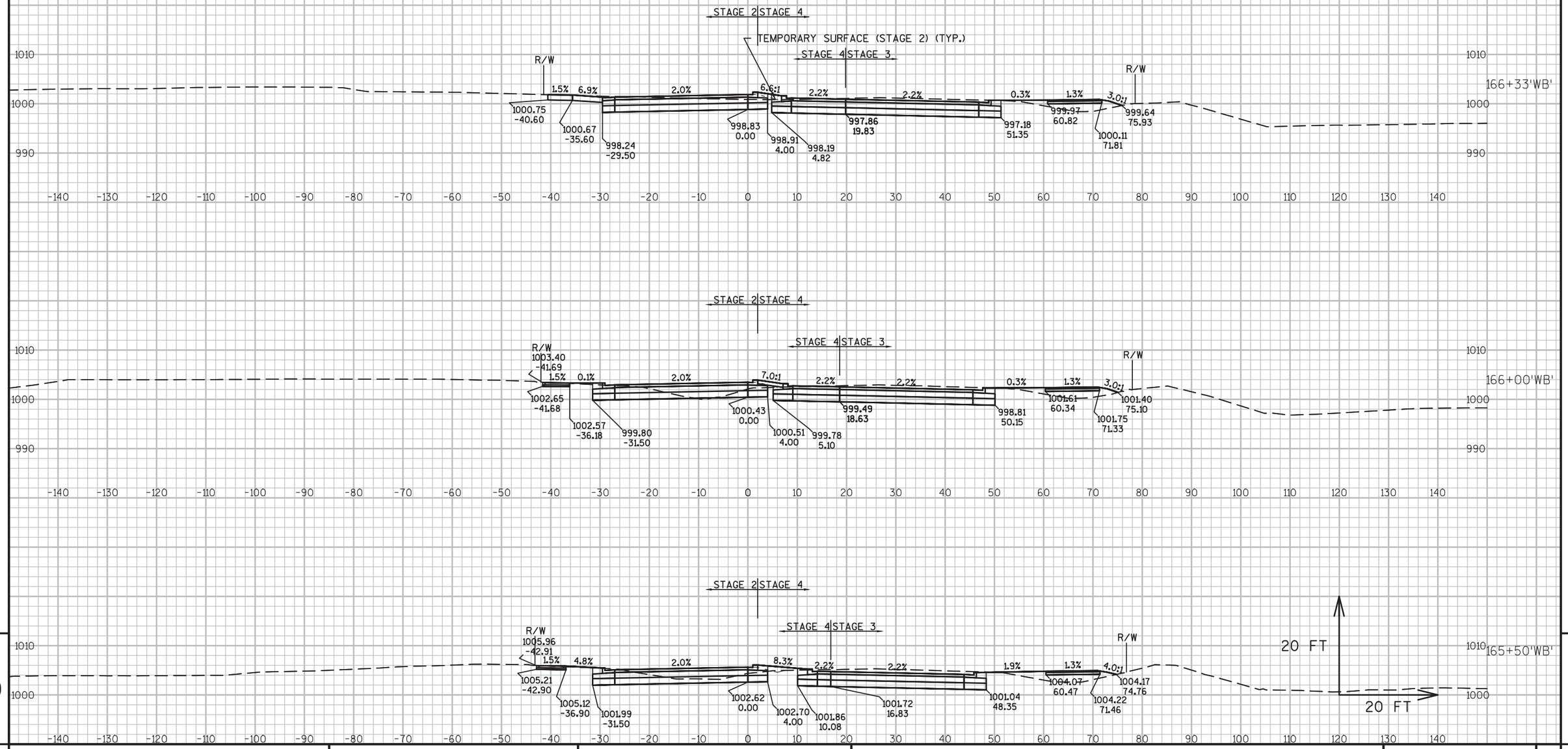
9 9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 690	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (41)

PLOT DATE : 9/1/2016 10:13 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

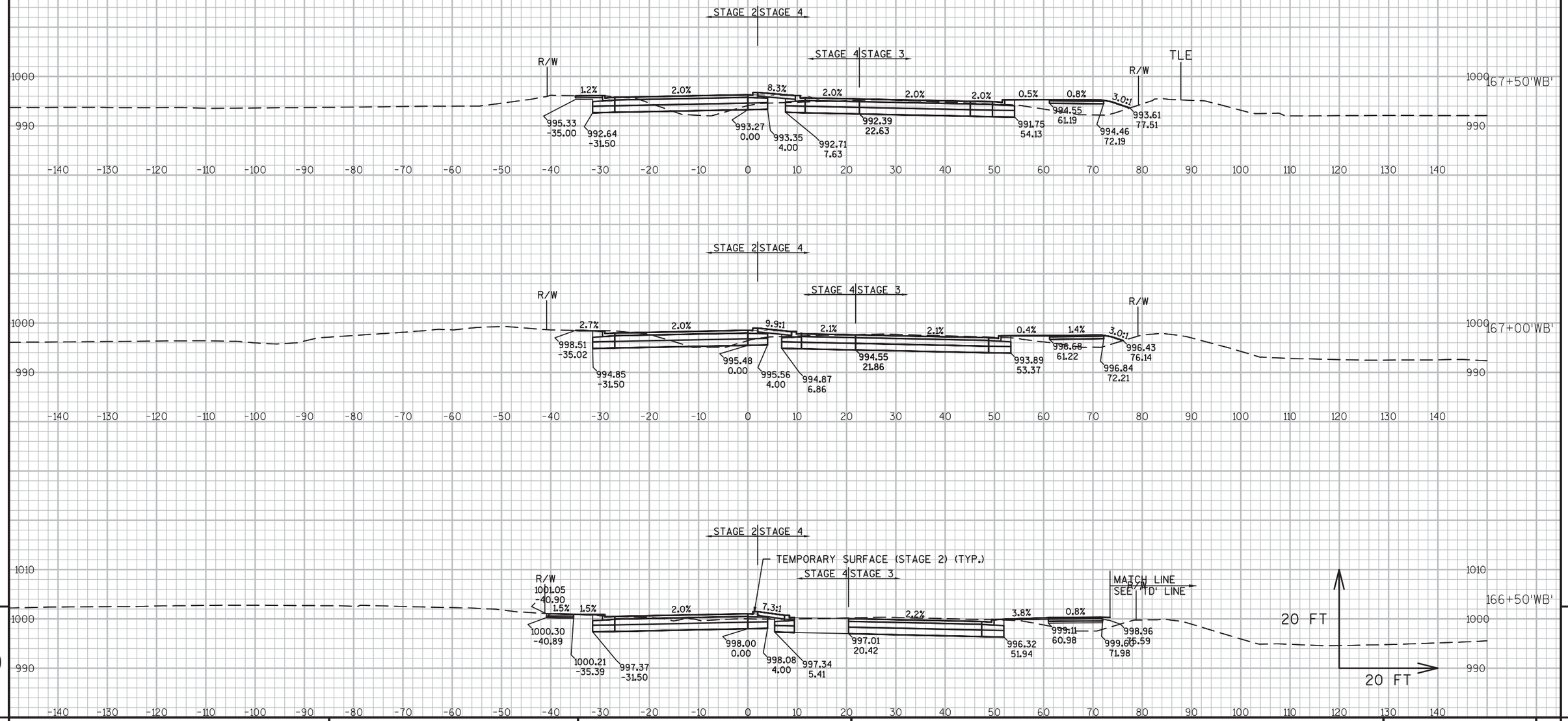
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 691	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (42)

PLOT DATE : 9/1/2016 10:13 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

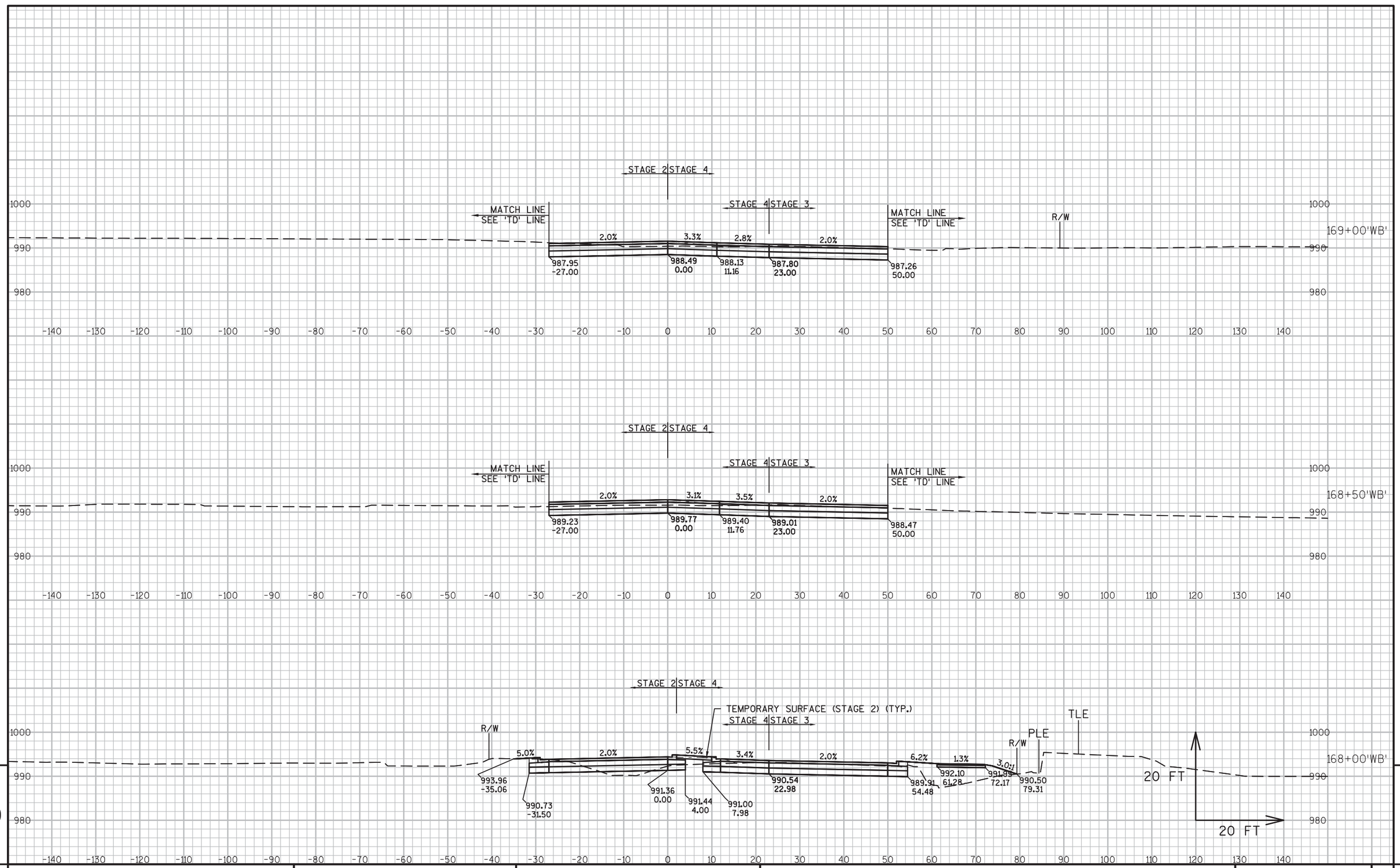
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 692	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (43)

PLOT DATE : 9/1/2016 10:13 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

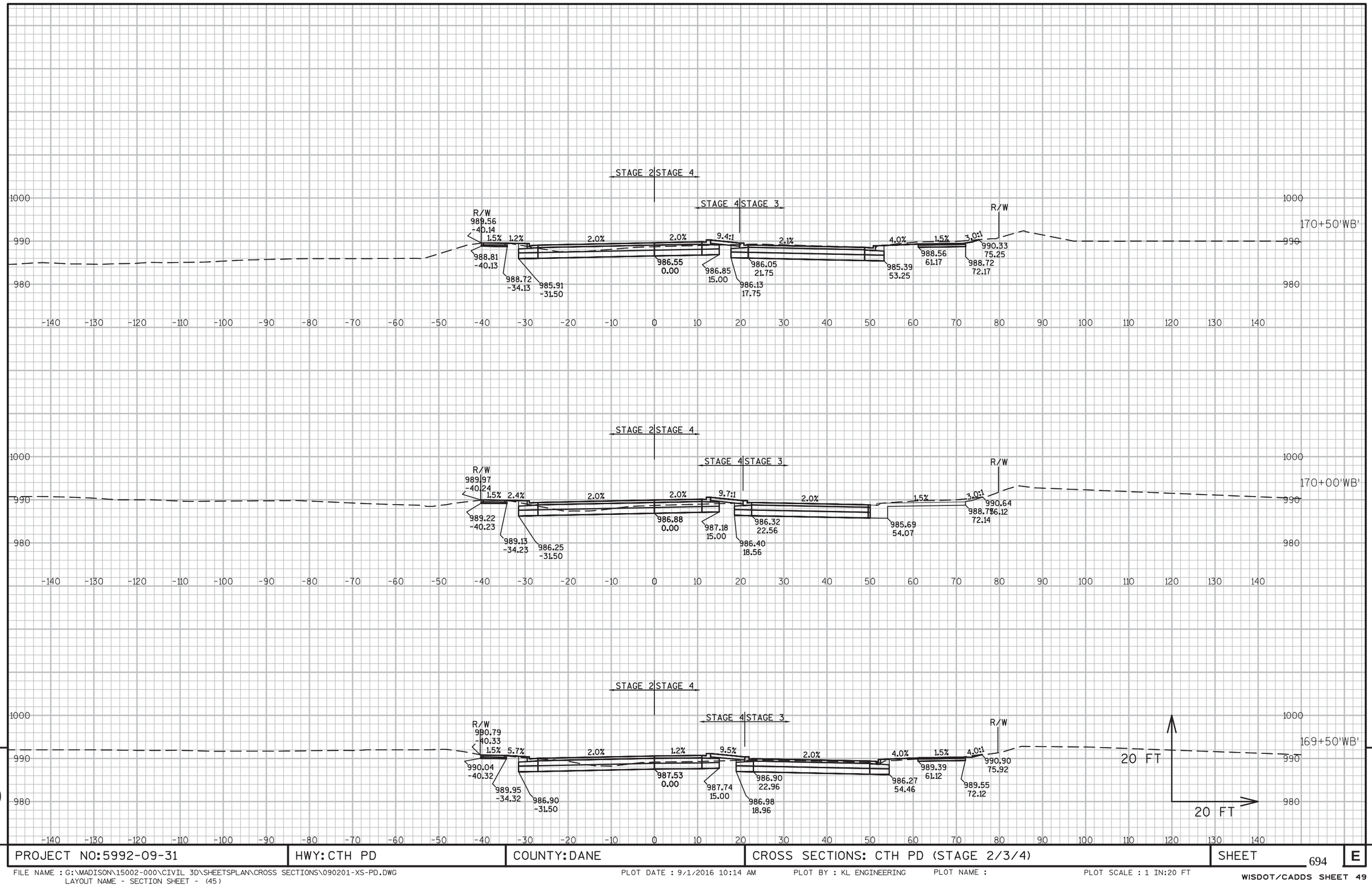
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 693	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (44)

PLOT DATE : 9/1/2016 10:14 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

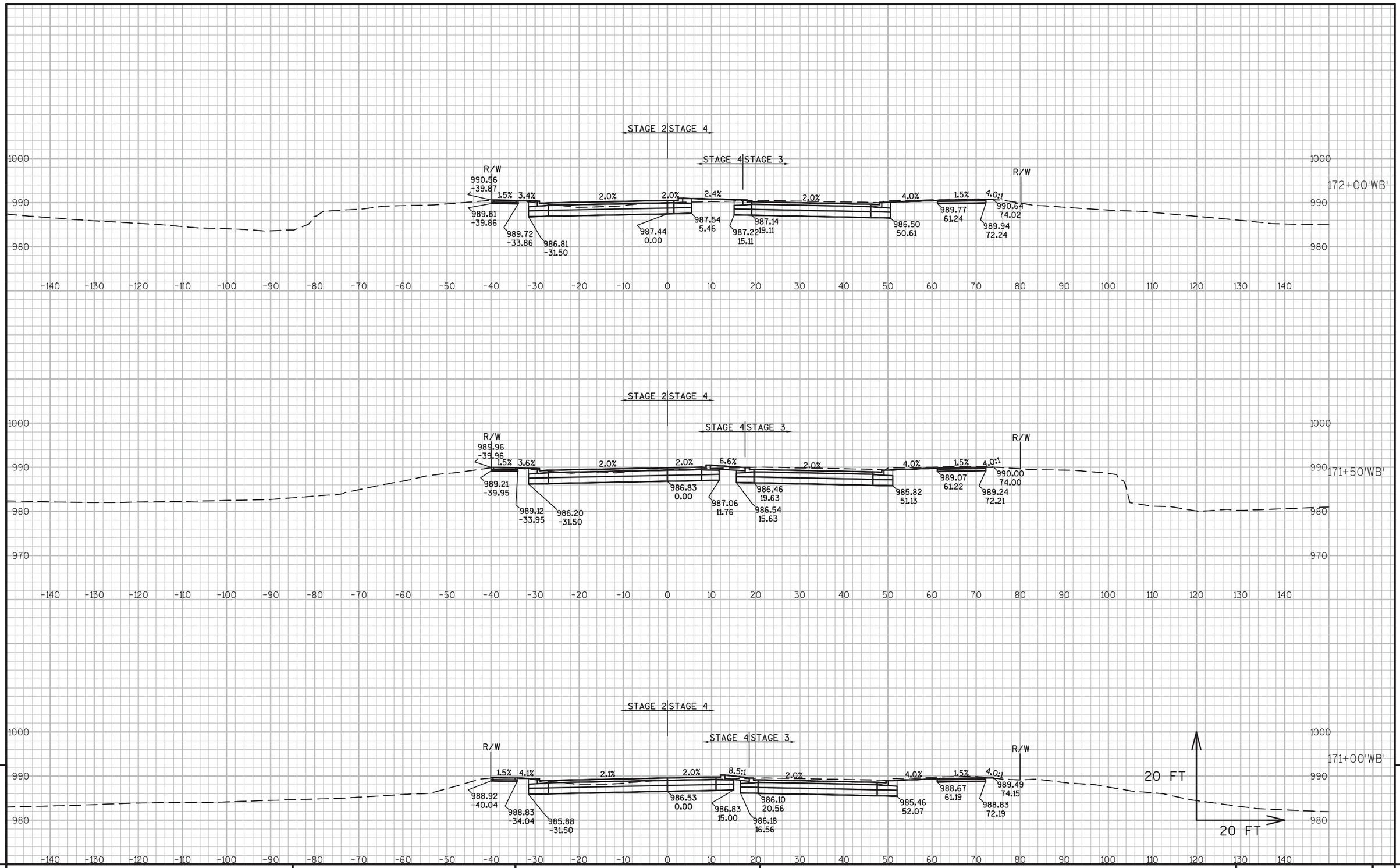
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 694	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (45)

PLOT DATE : 9/1/2016 10:14 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

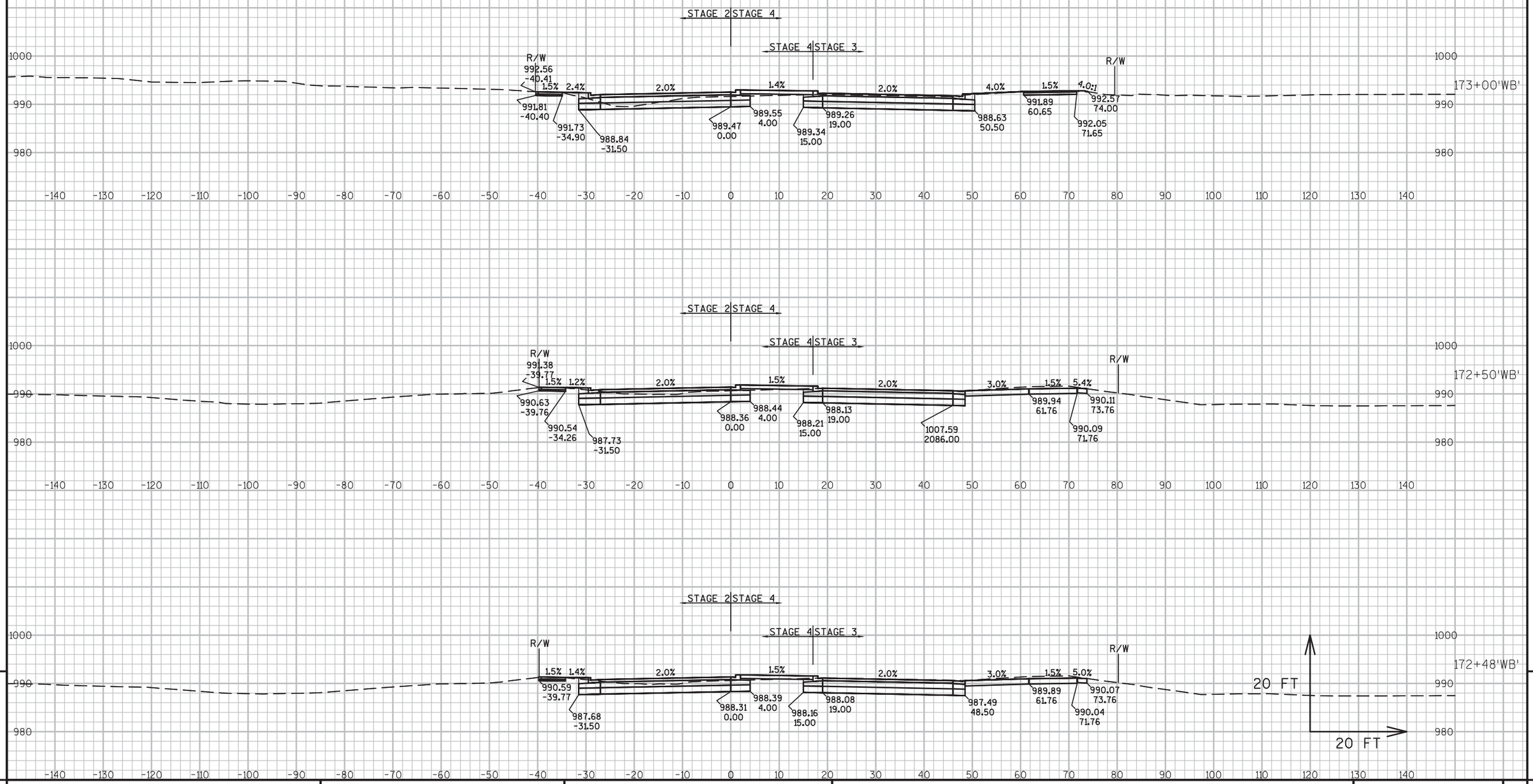
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 695	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (46)

PLOT DATE : 9/1/2016 10:14 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

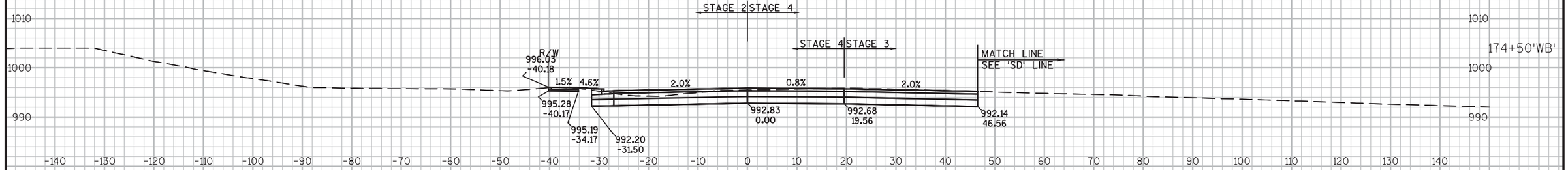
WISDOT/CADDS SHEET 49

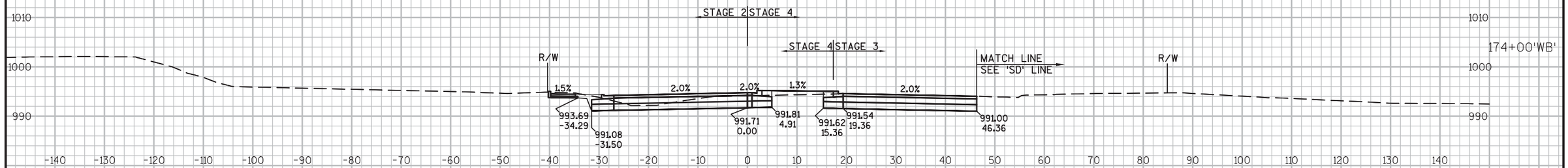


9	PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 696 E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (47)

PLOT DATE : 9/1/2016 10:15 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT





9

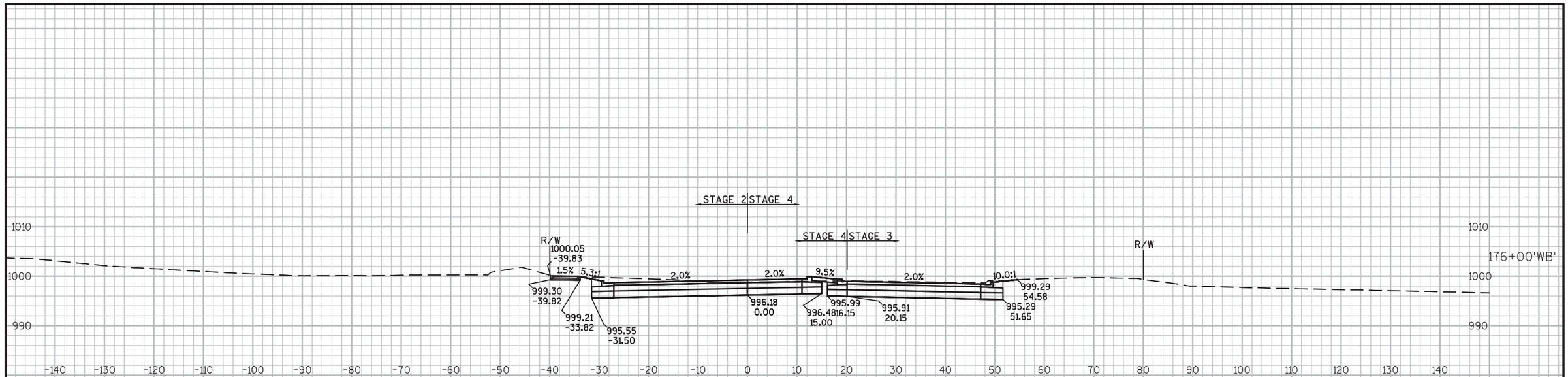
9

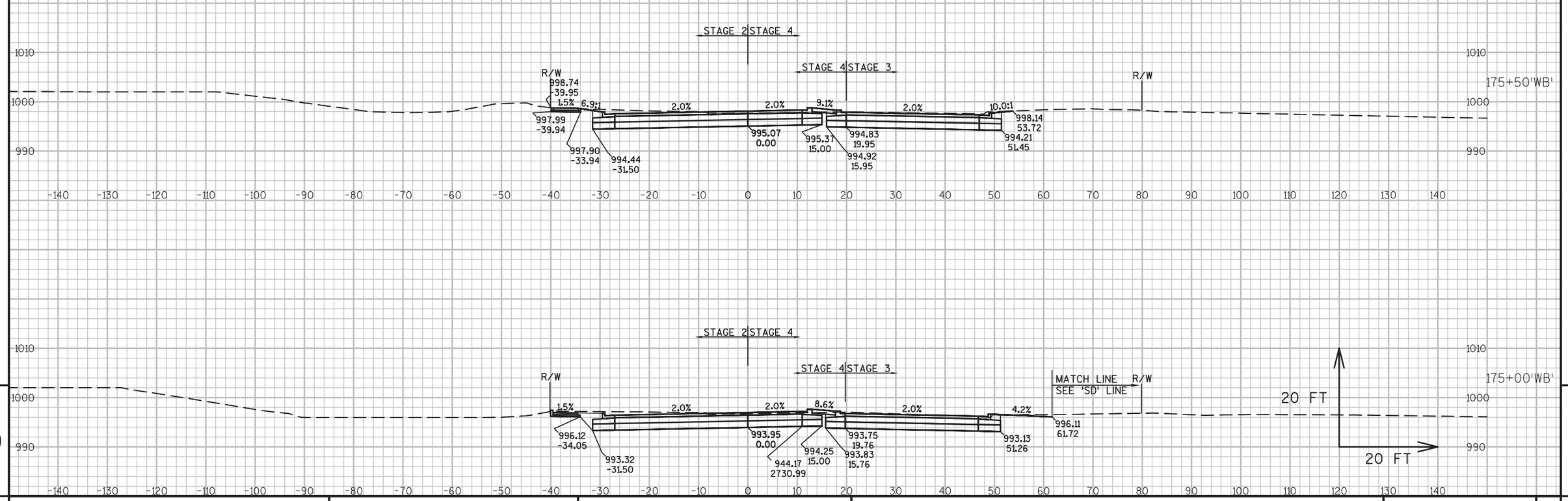
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 697	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (48)

PLOT DATE : 9/1/2016 10:15 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49





9

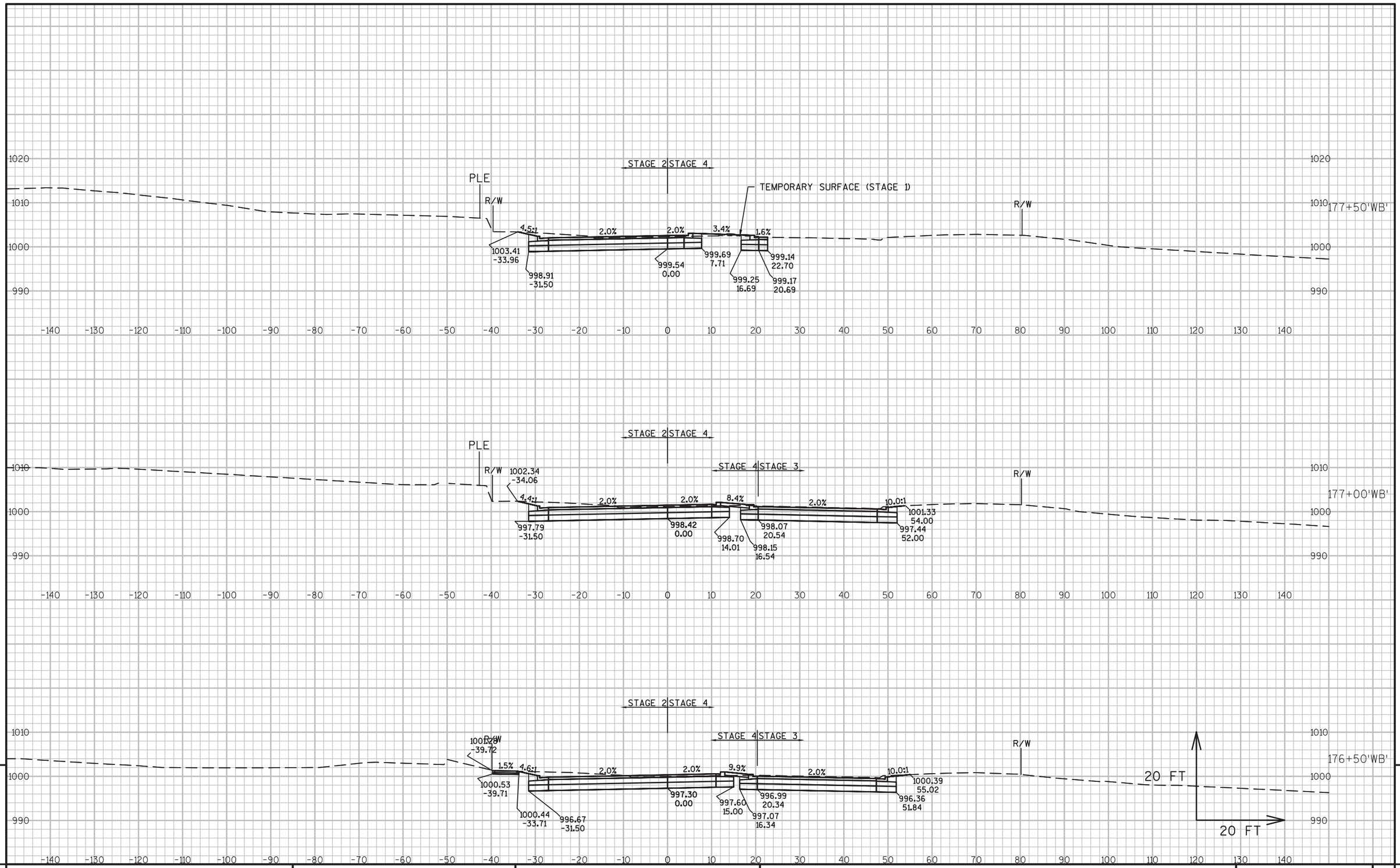
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 698	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (49)

PLOT DATE : 9/1/2016 10:15 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

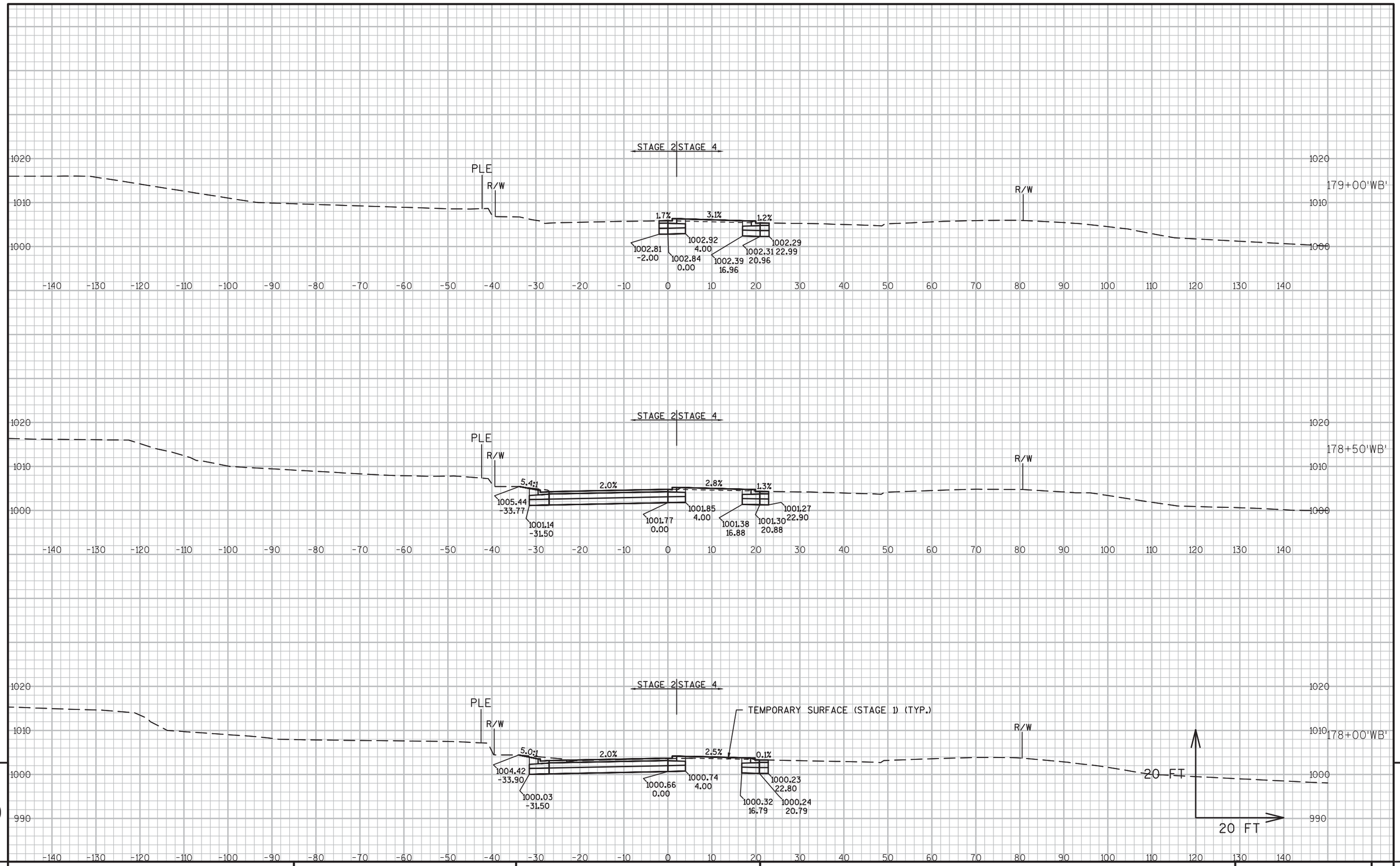
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 699	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (49)

PLOT DATE : 9/1/2016 10:15 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

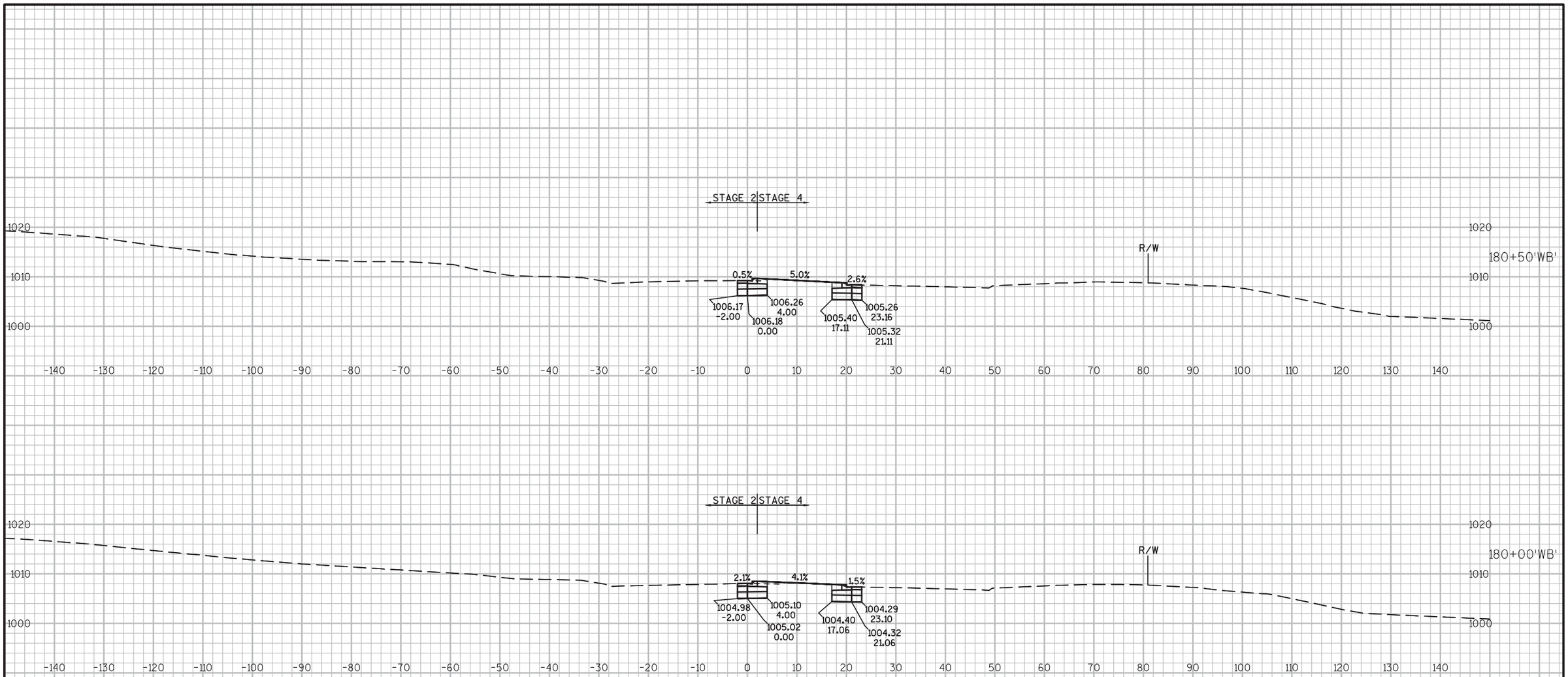
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 700	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (49)

PLOT DATE : 9/1/2016 10:16 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

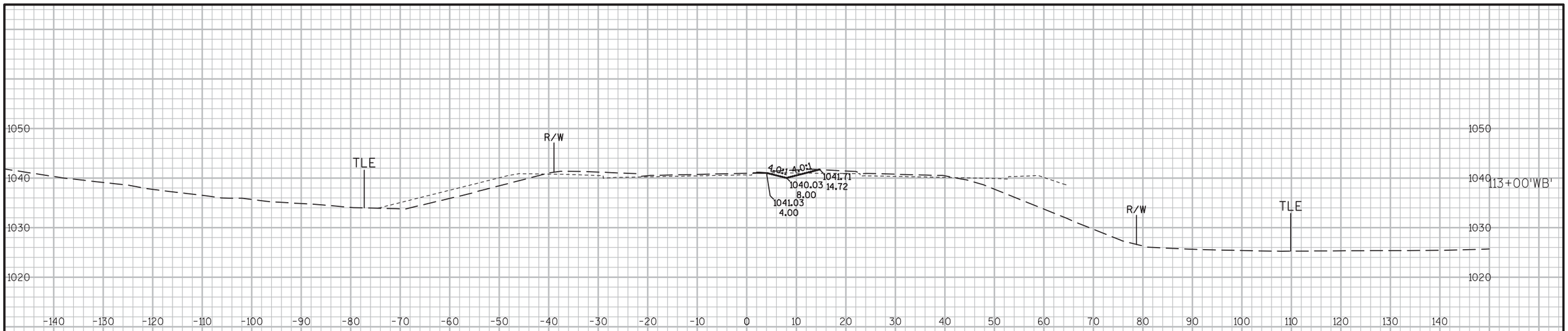
9

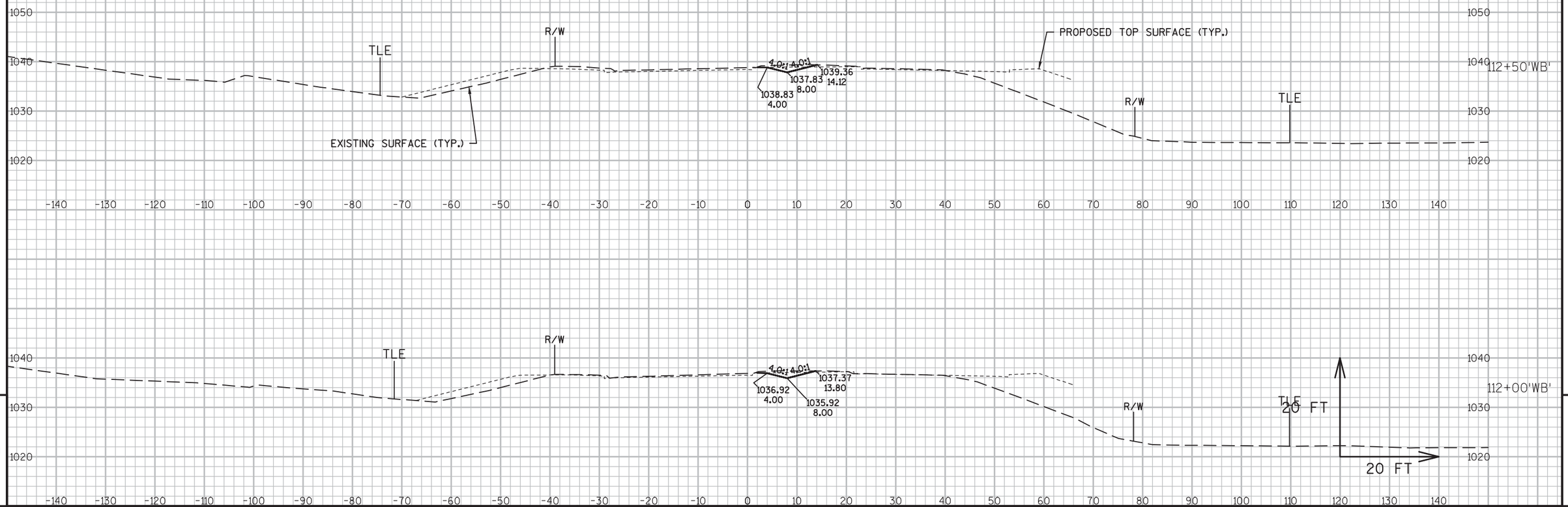
PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2/3/4)	SHEET 701	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201-XS-PD.DWG
LAYOUT NAME - SECTION SHEET - (49)

PLOT DATE : 9/1/2016 10:16 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49





9

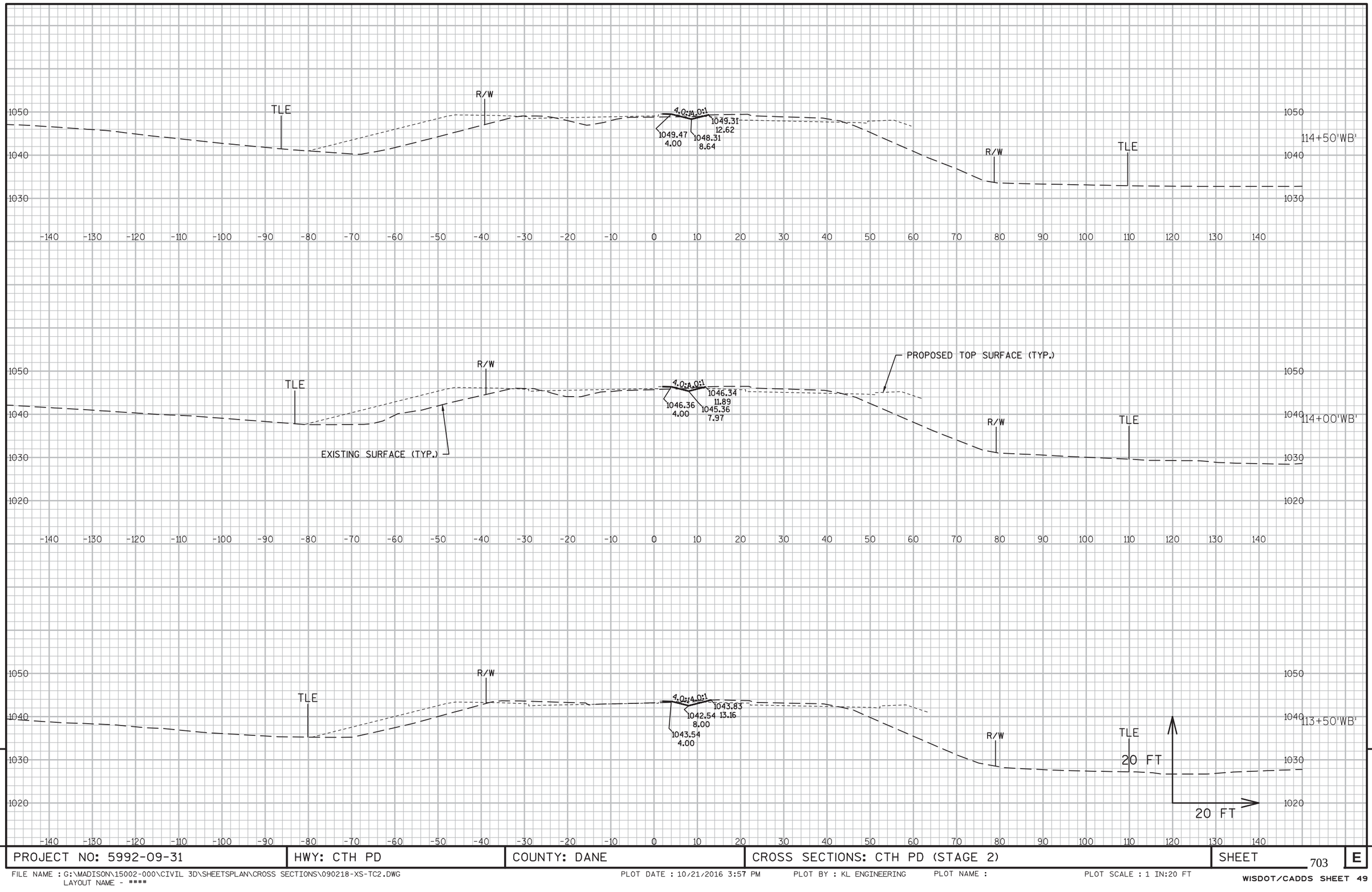
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 702	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (10)

PLOT DATE : 10/21/2016 3:56 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

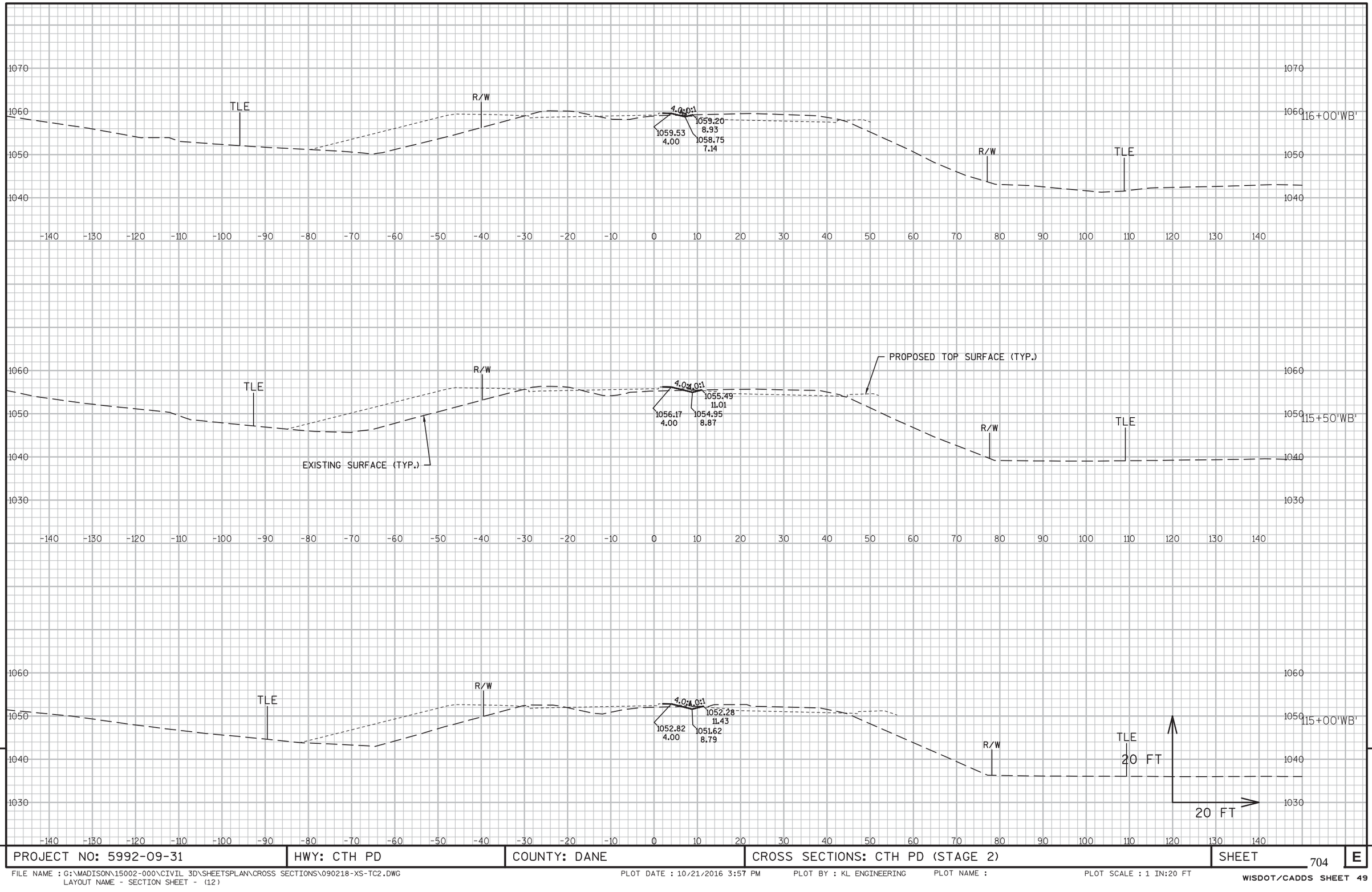
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 703	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - ****

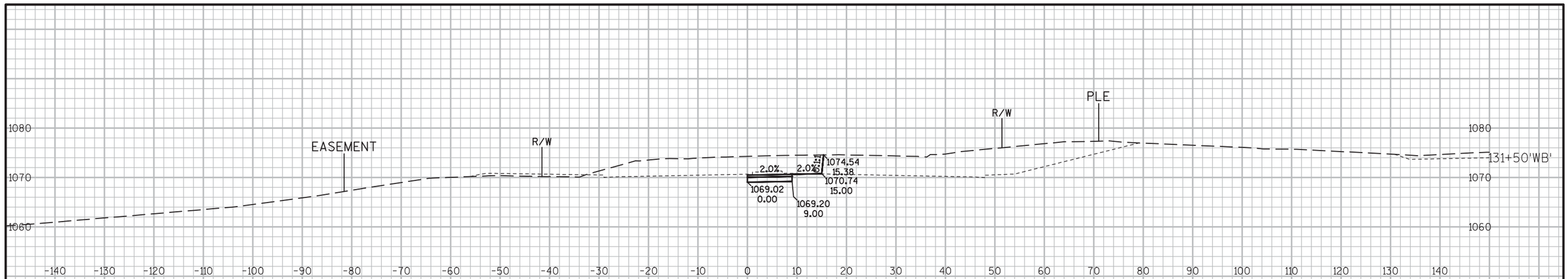
PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

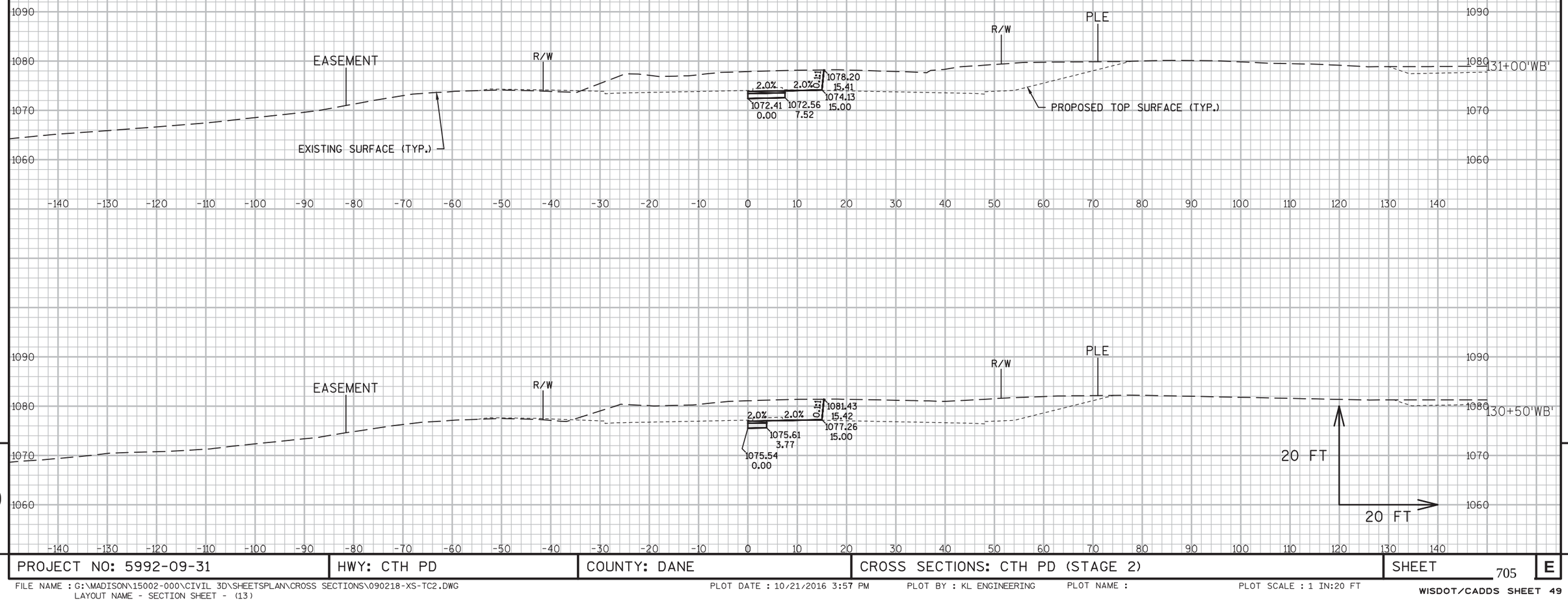
WISDOT/CADDS SHEET 49



PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 704	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (12)
PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49





9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 705	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (13)

PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

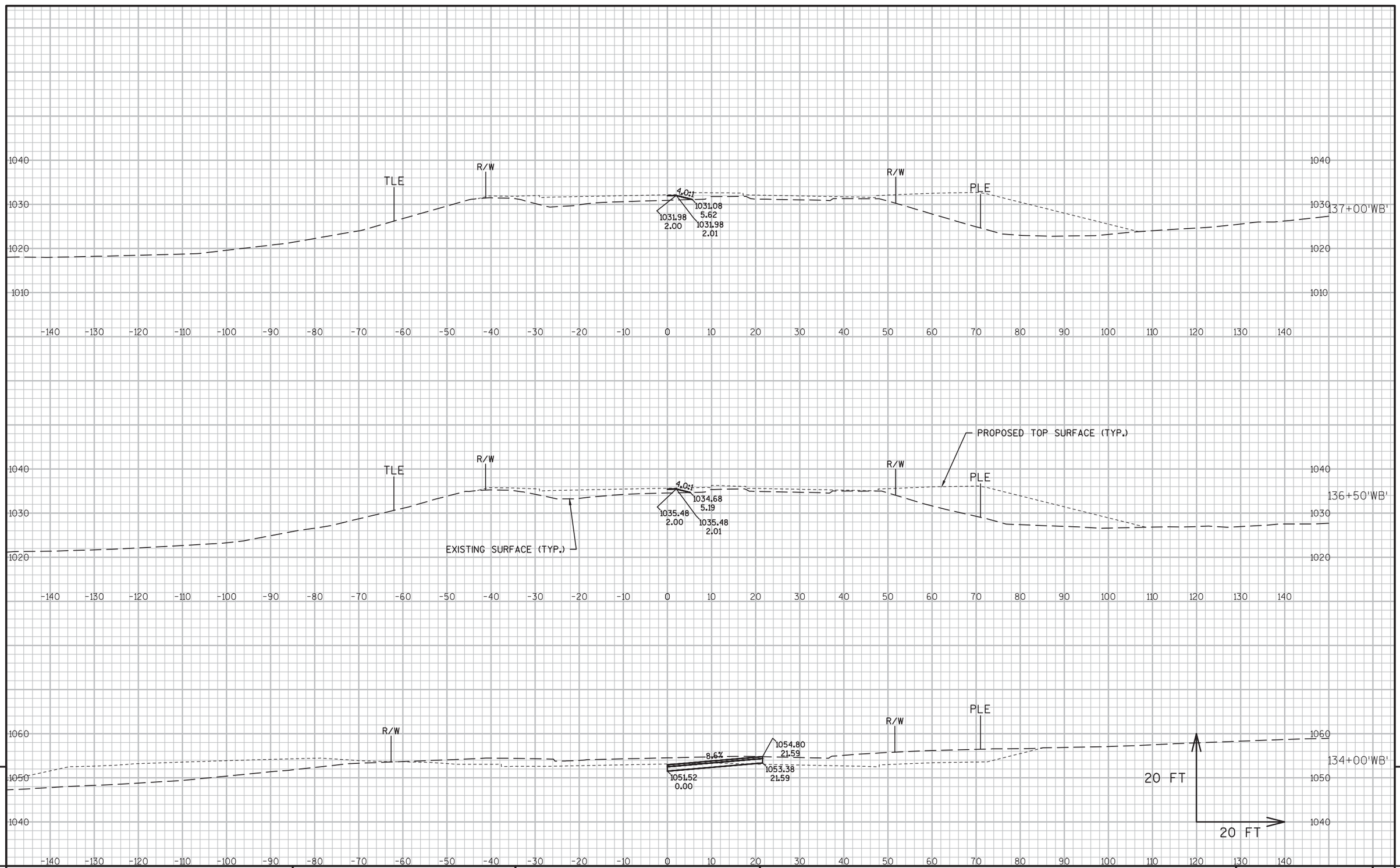
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 706 E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (14)

PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

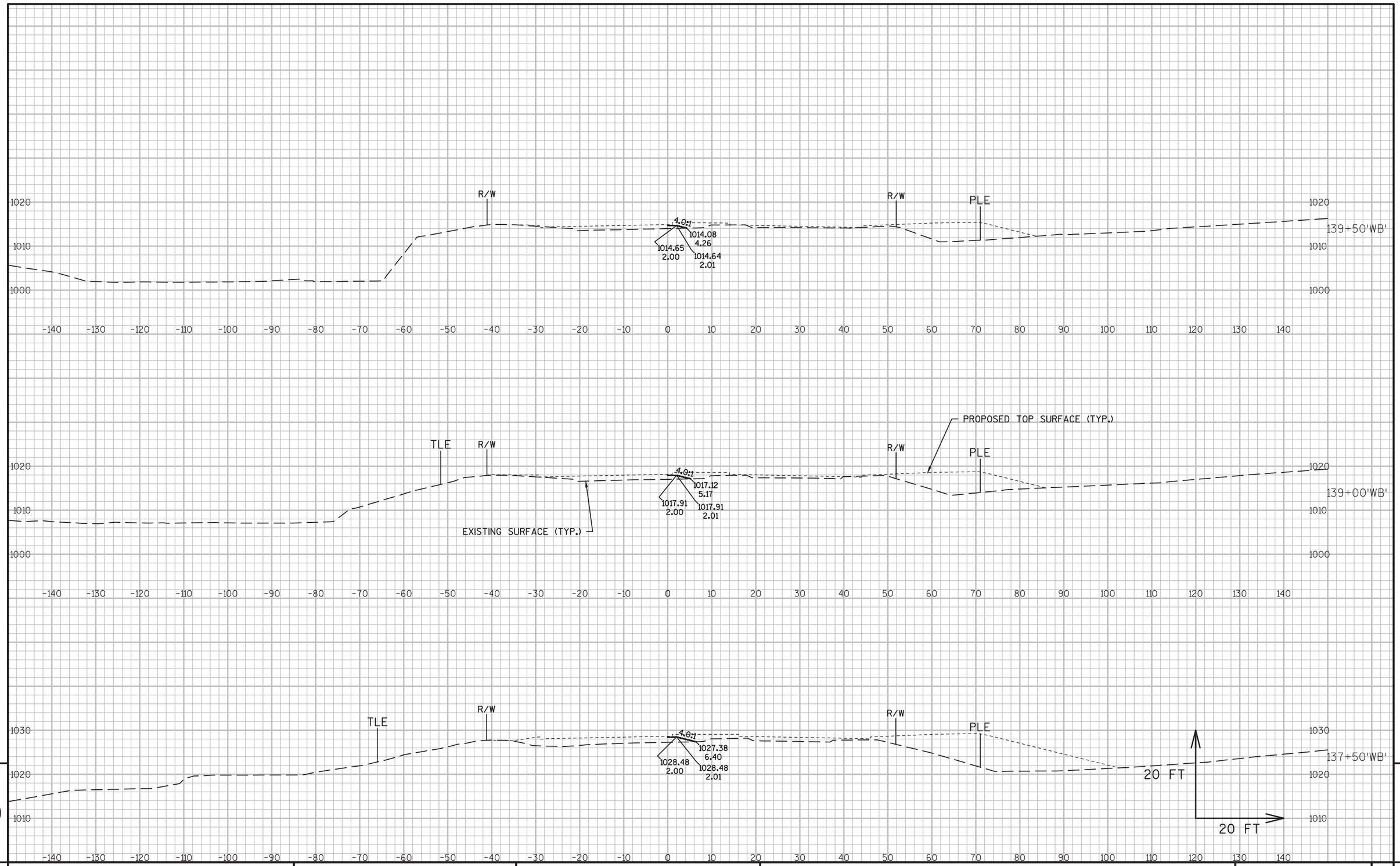
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 707	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (15)

PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

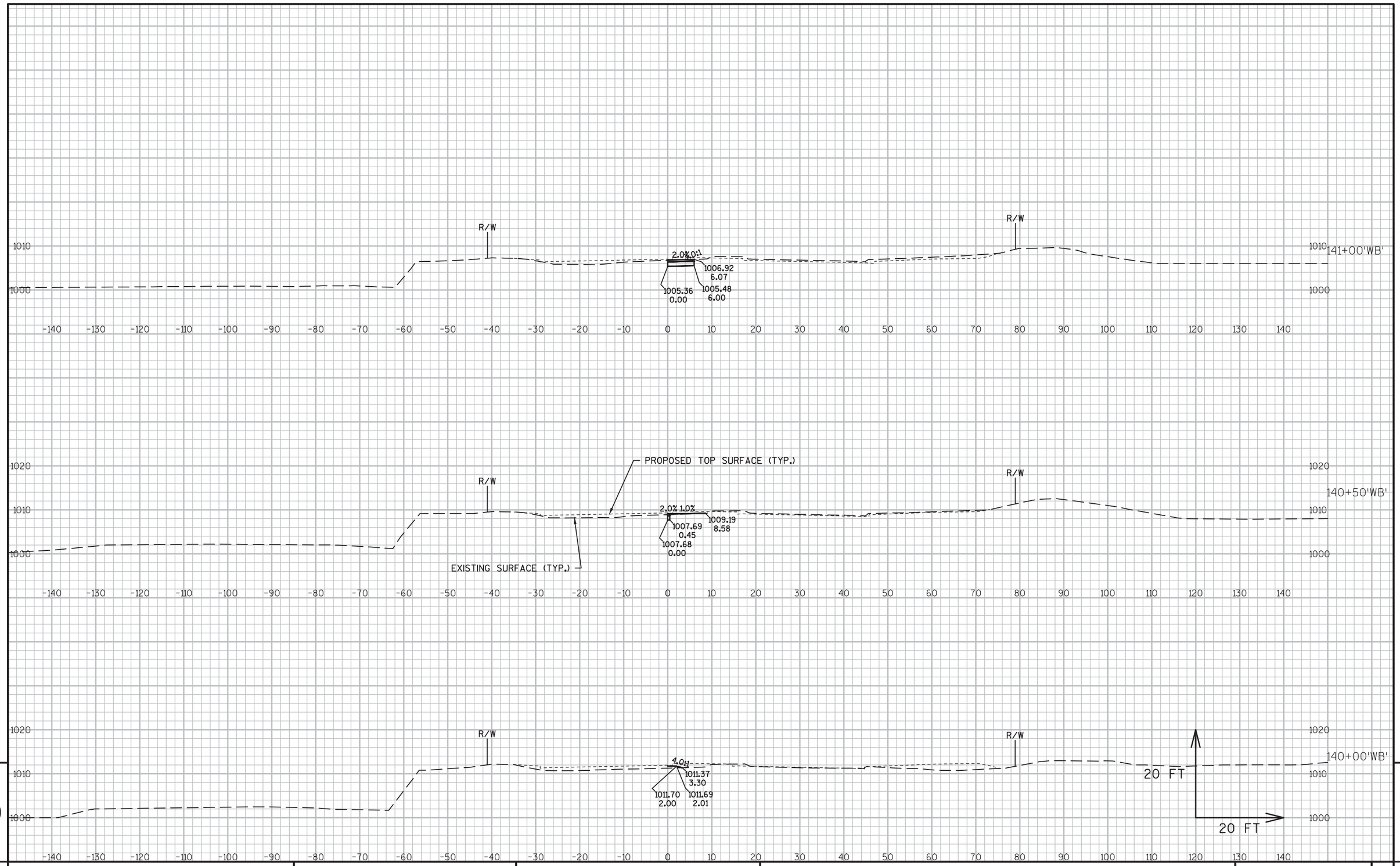
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 708	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (16)

PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

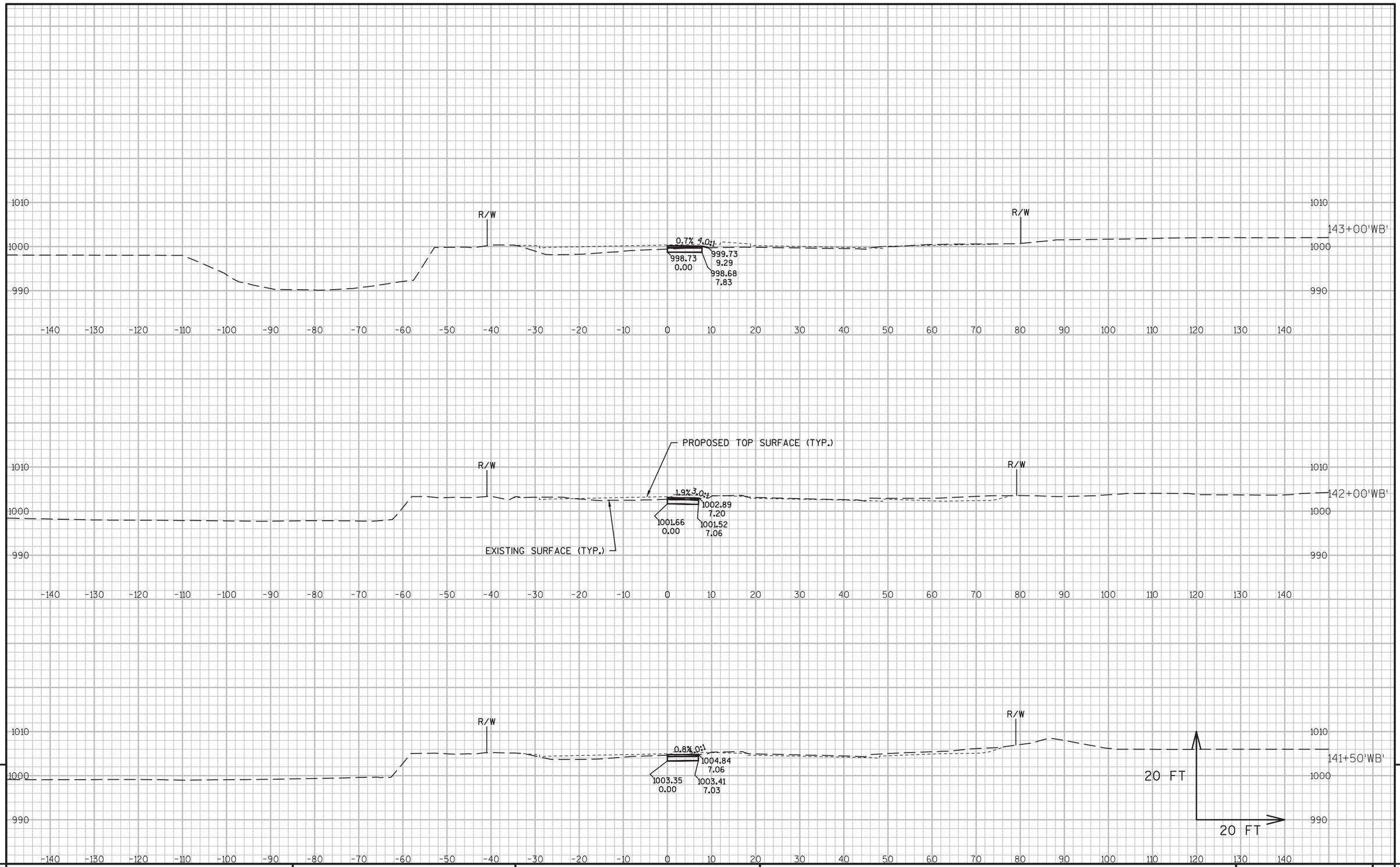
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 709	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (17)

PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

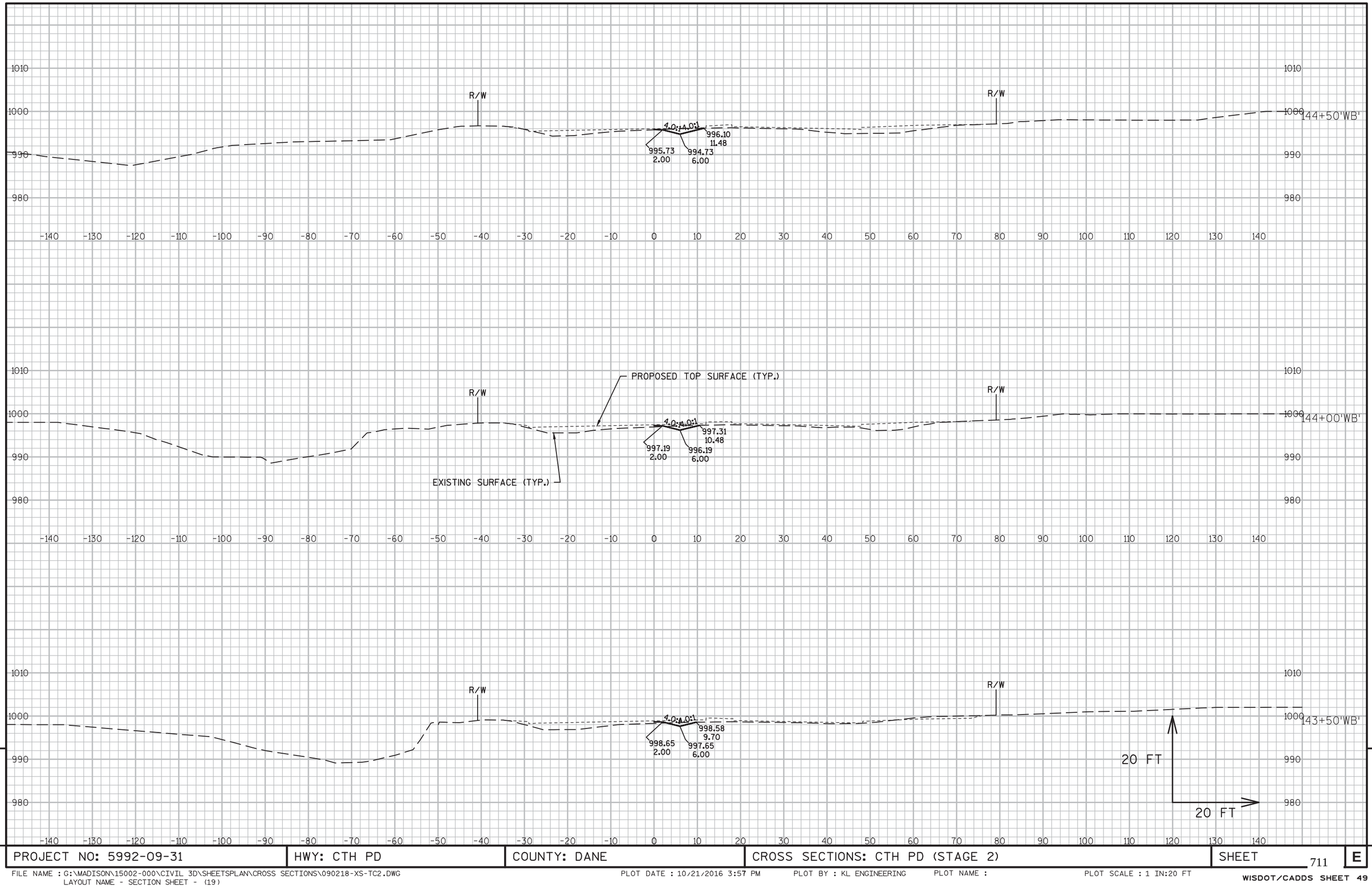
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 710	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (18)

PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



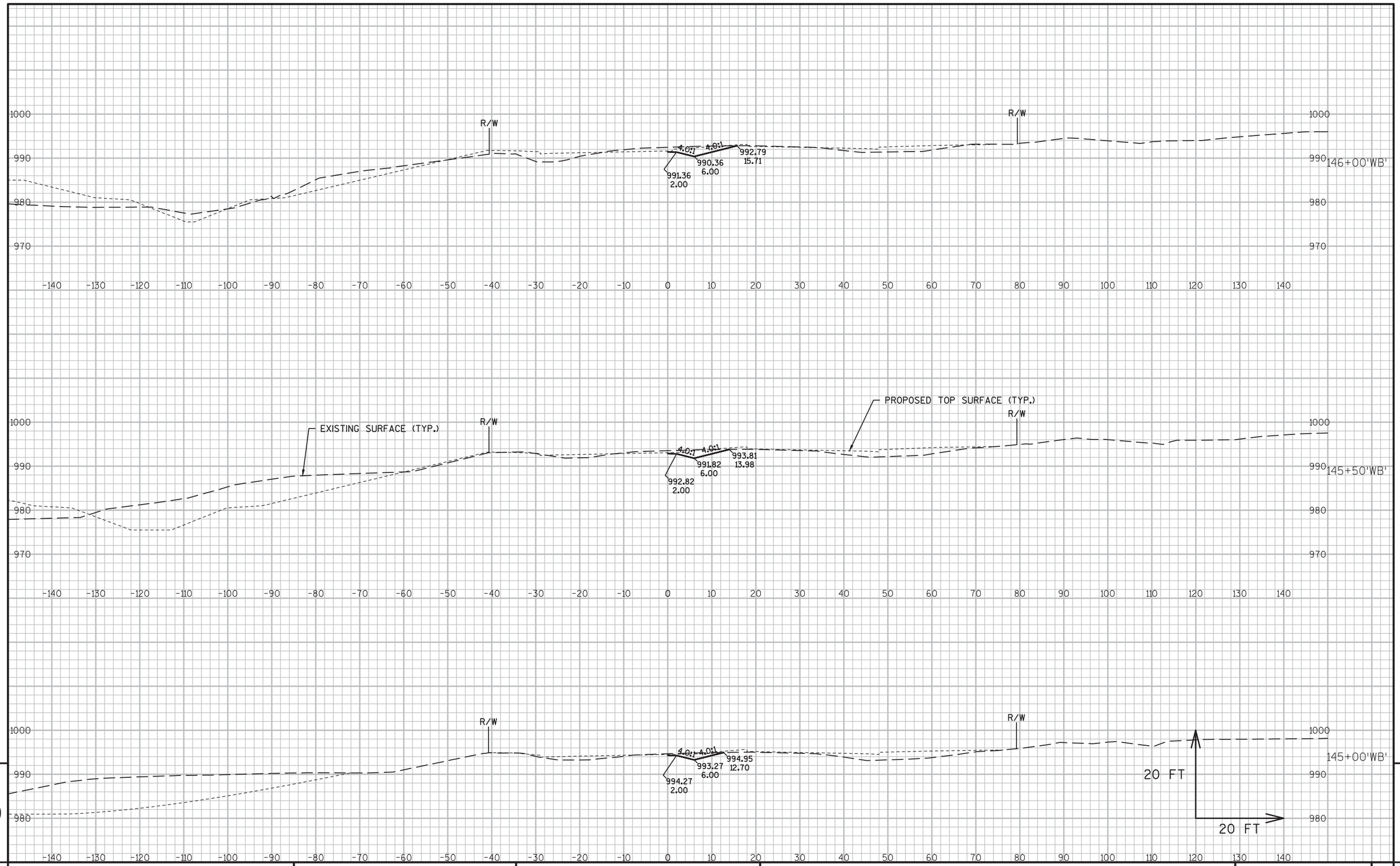
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 711	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (19)

PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

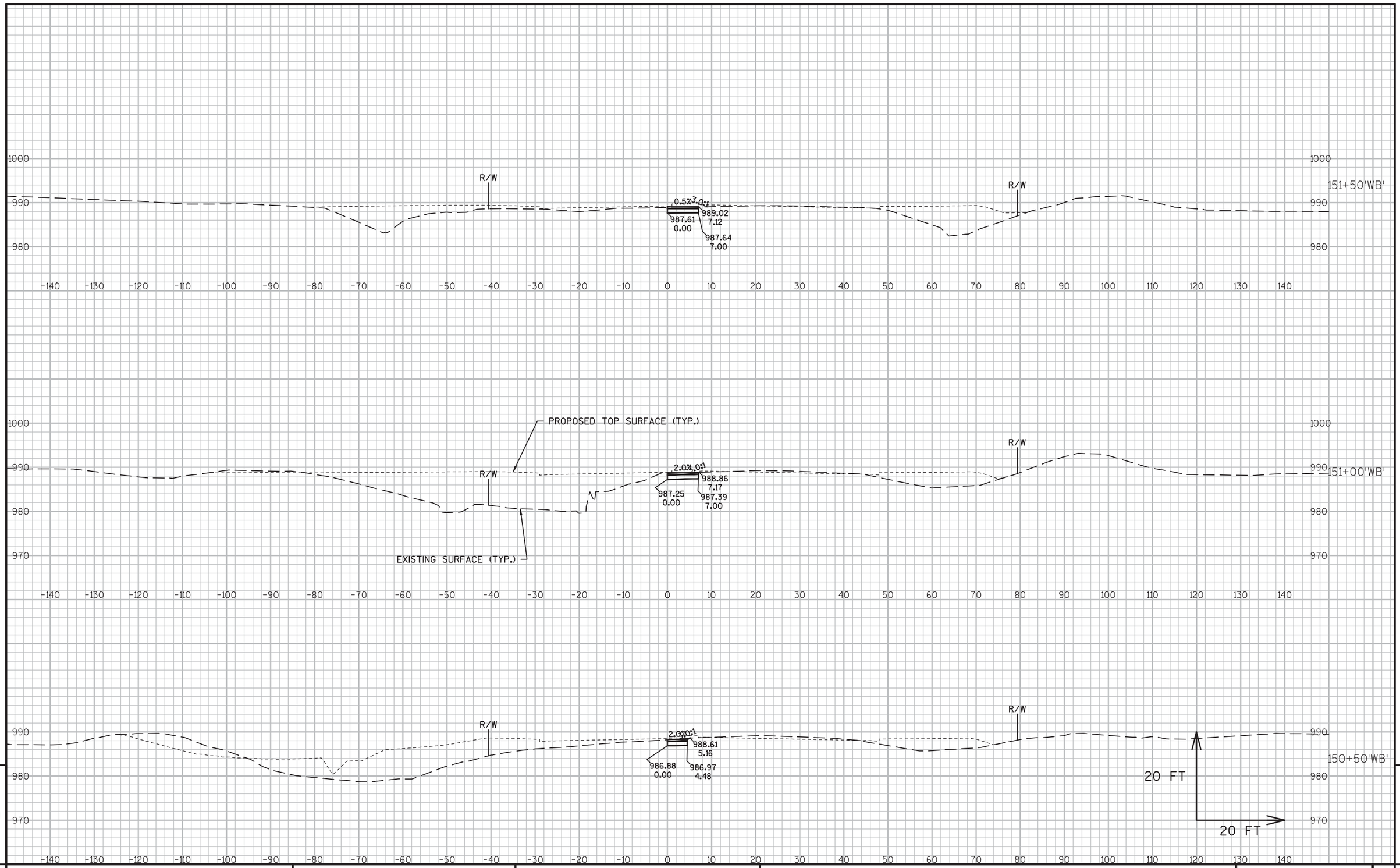
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 712	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (20)

PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

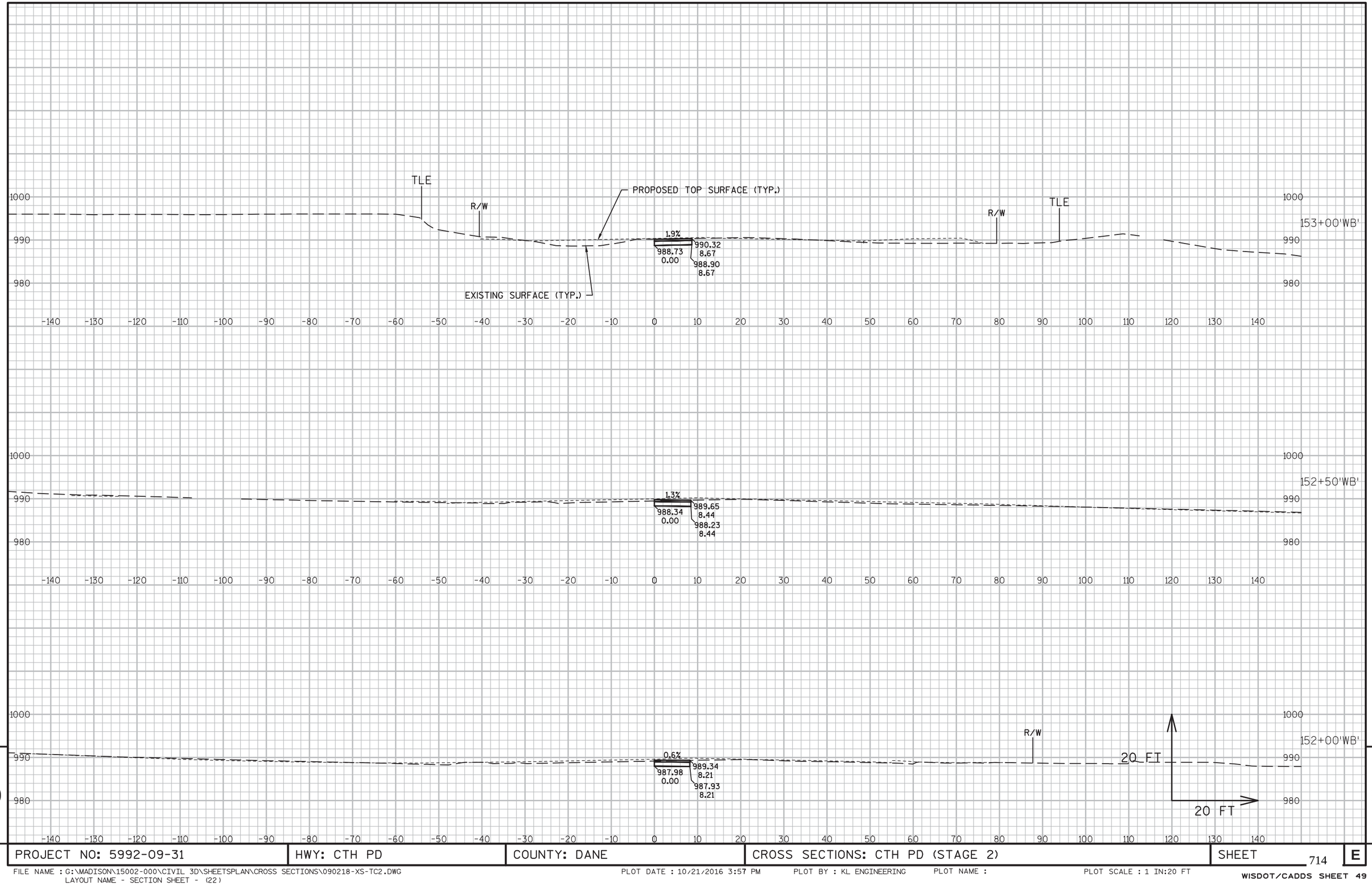
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 713	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (21)

PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

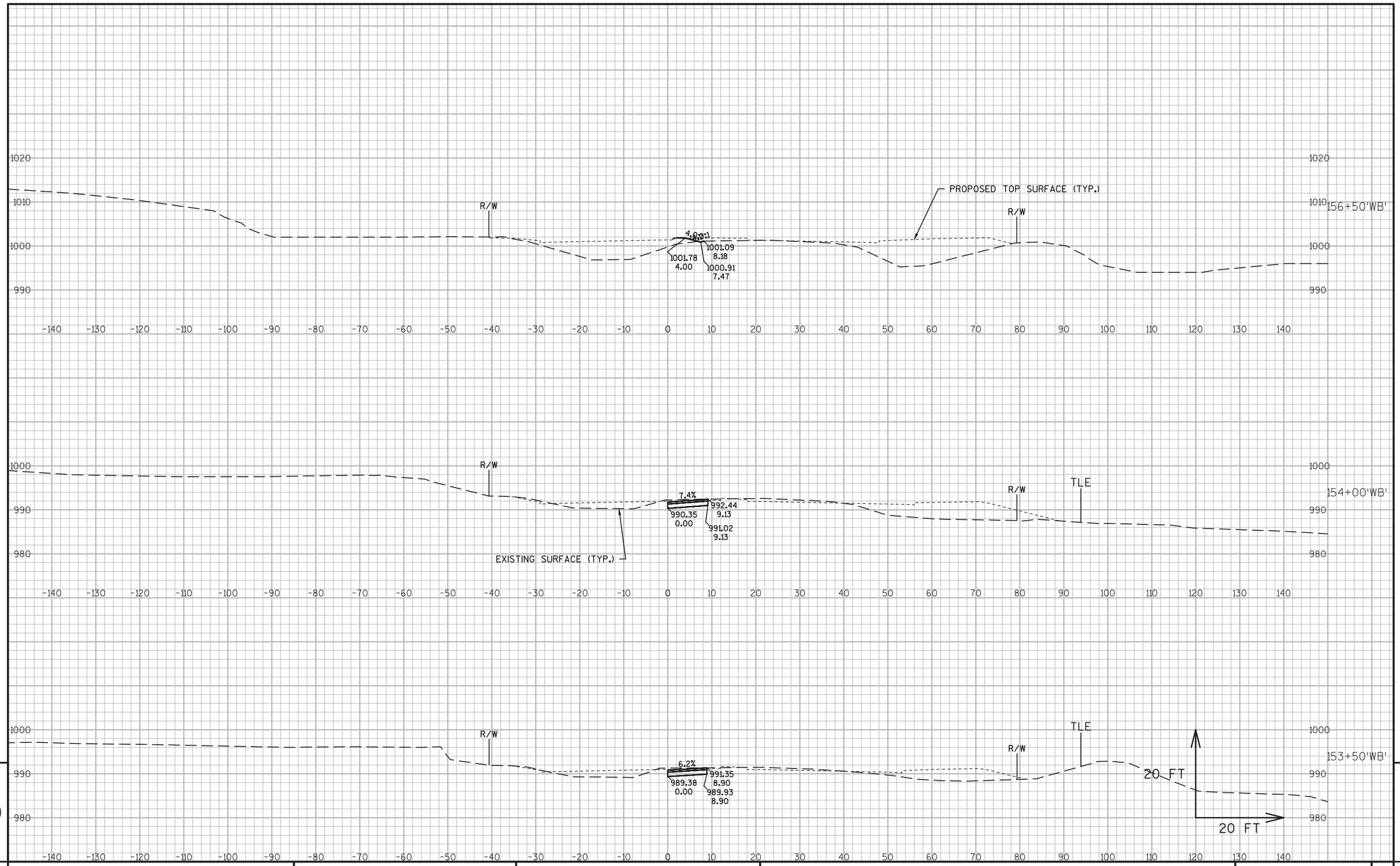
WISDOT/CADDS SHEET 49



9 9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 714	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (22)
PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

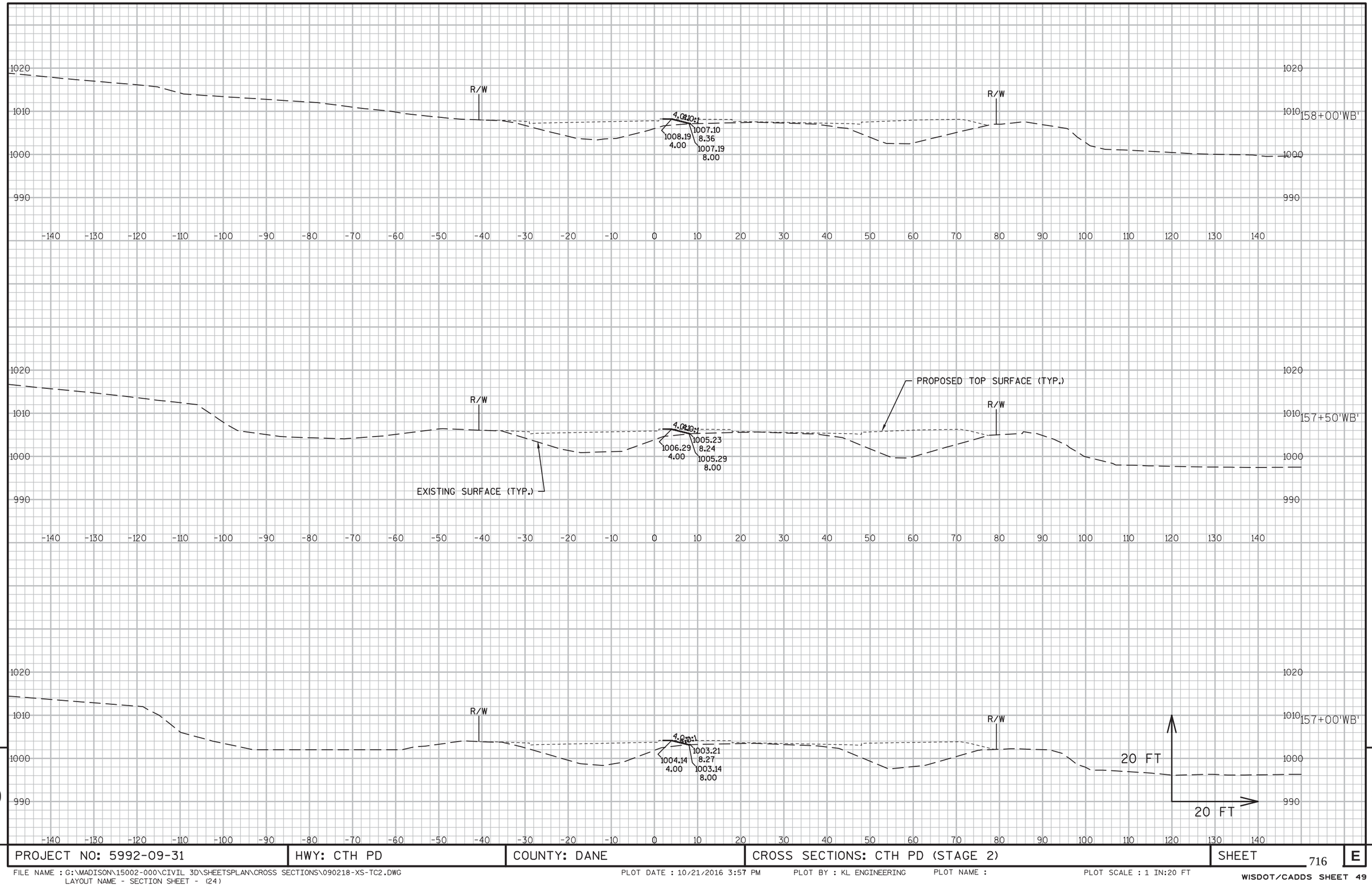
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 715	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (23)

PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

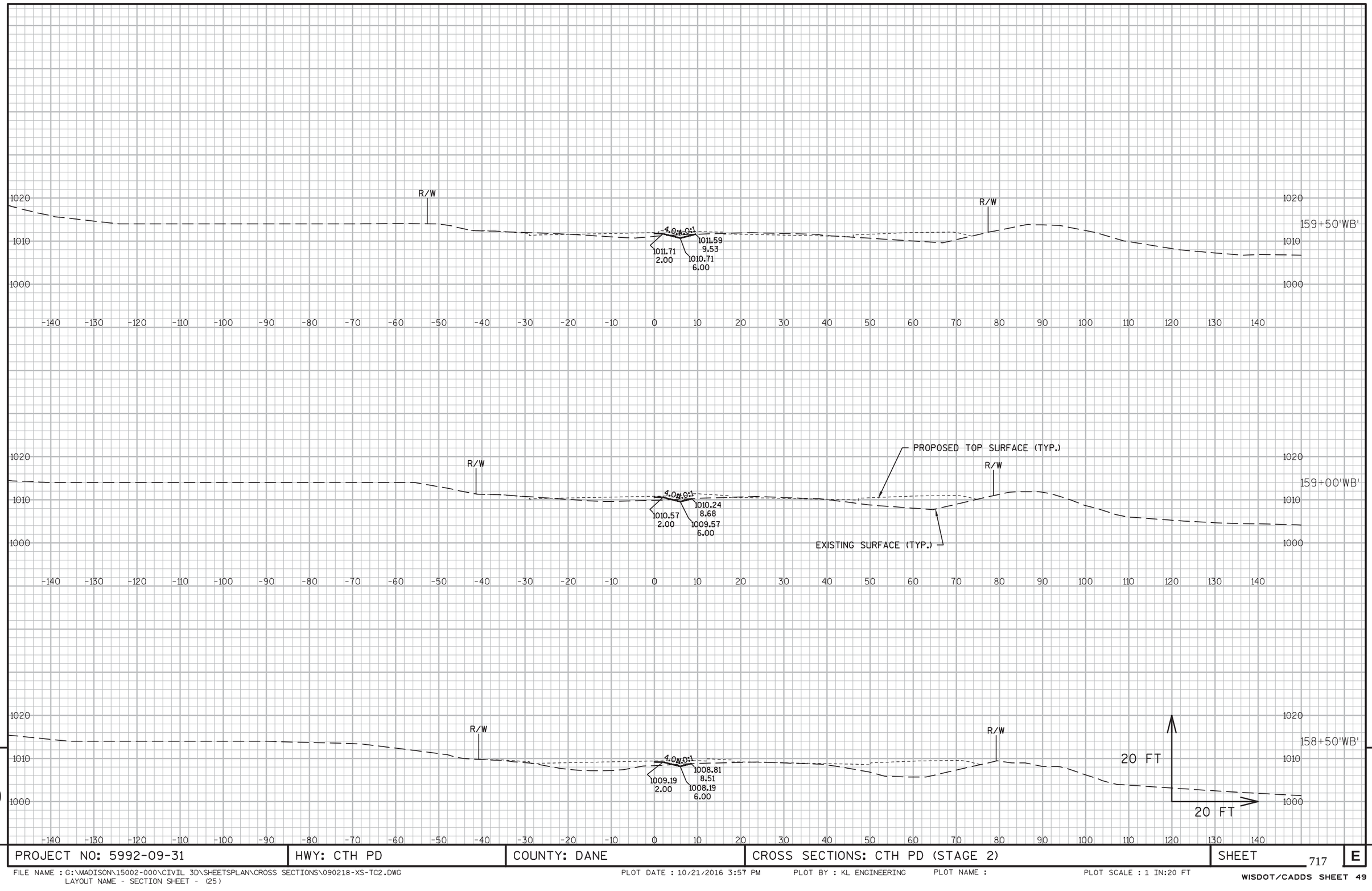
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 716	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (24)

PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

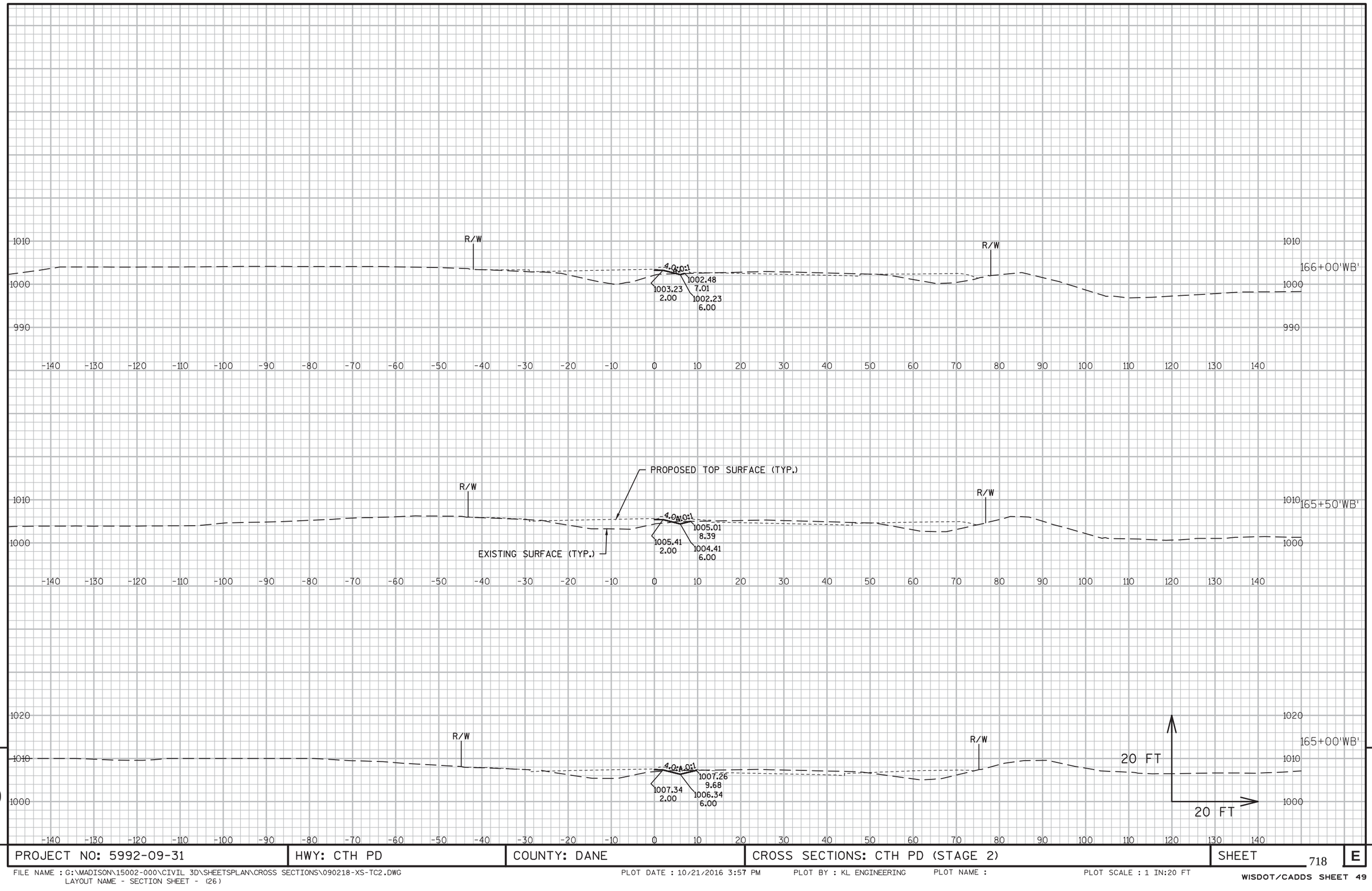
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 717	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (25)

PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

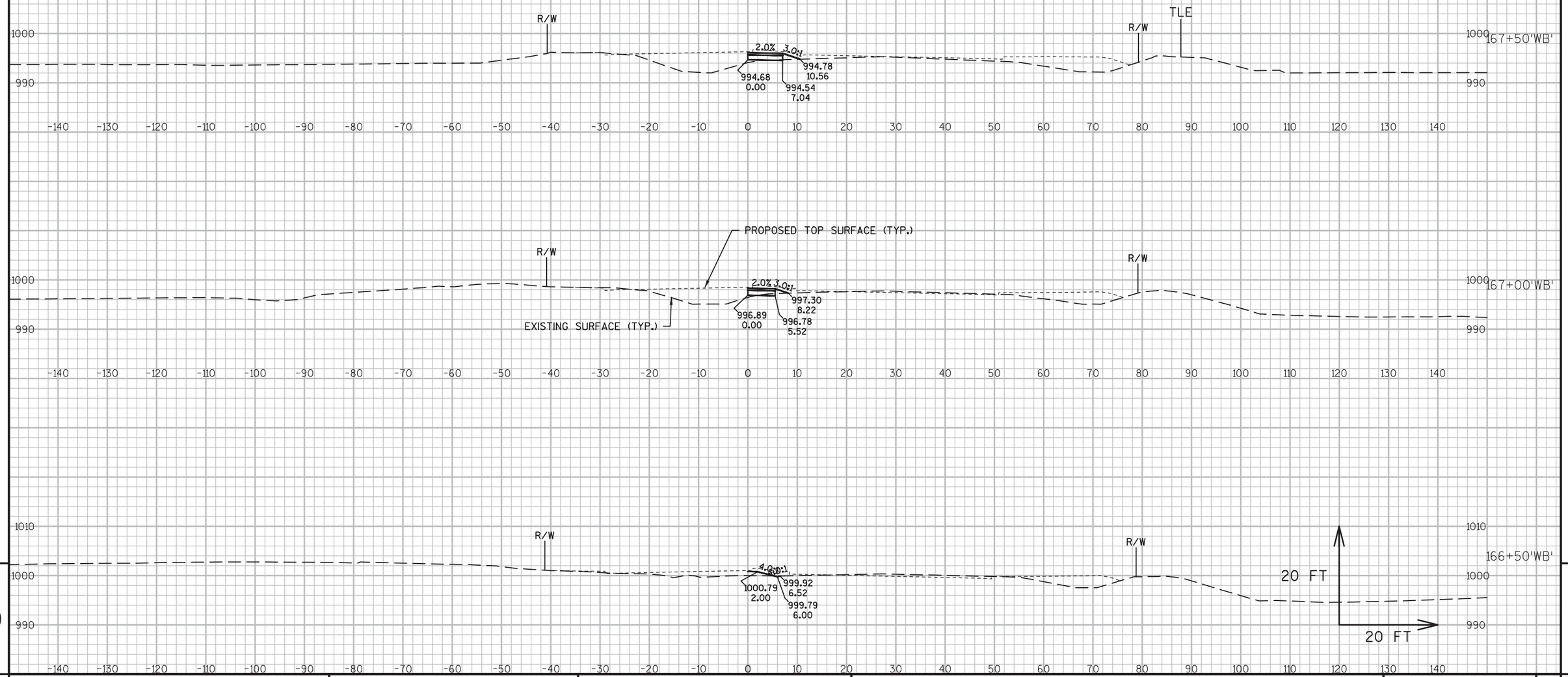
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 718	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (26)

PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



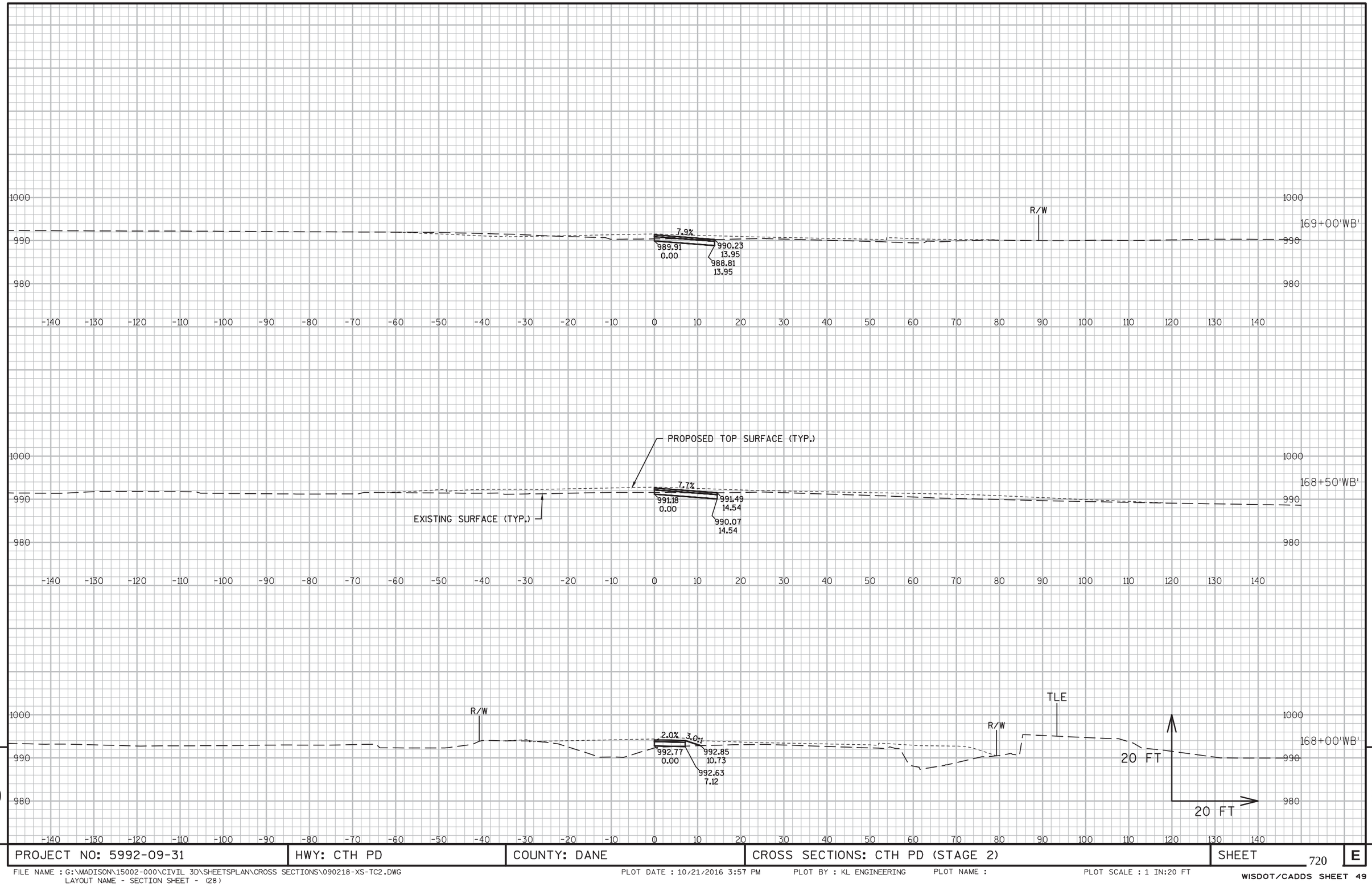
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 719	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (27)

PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



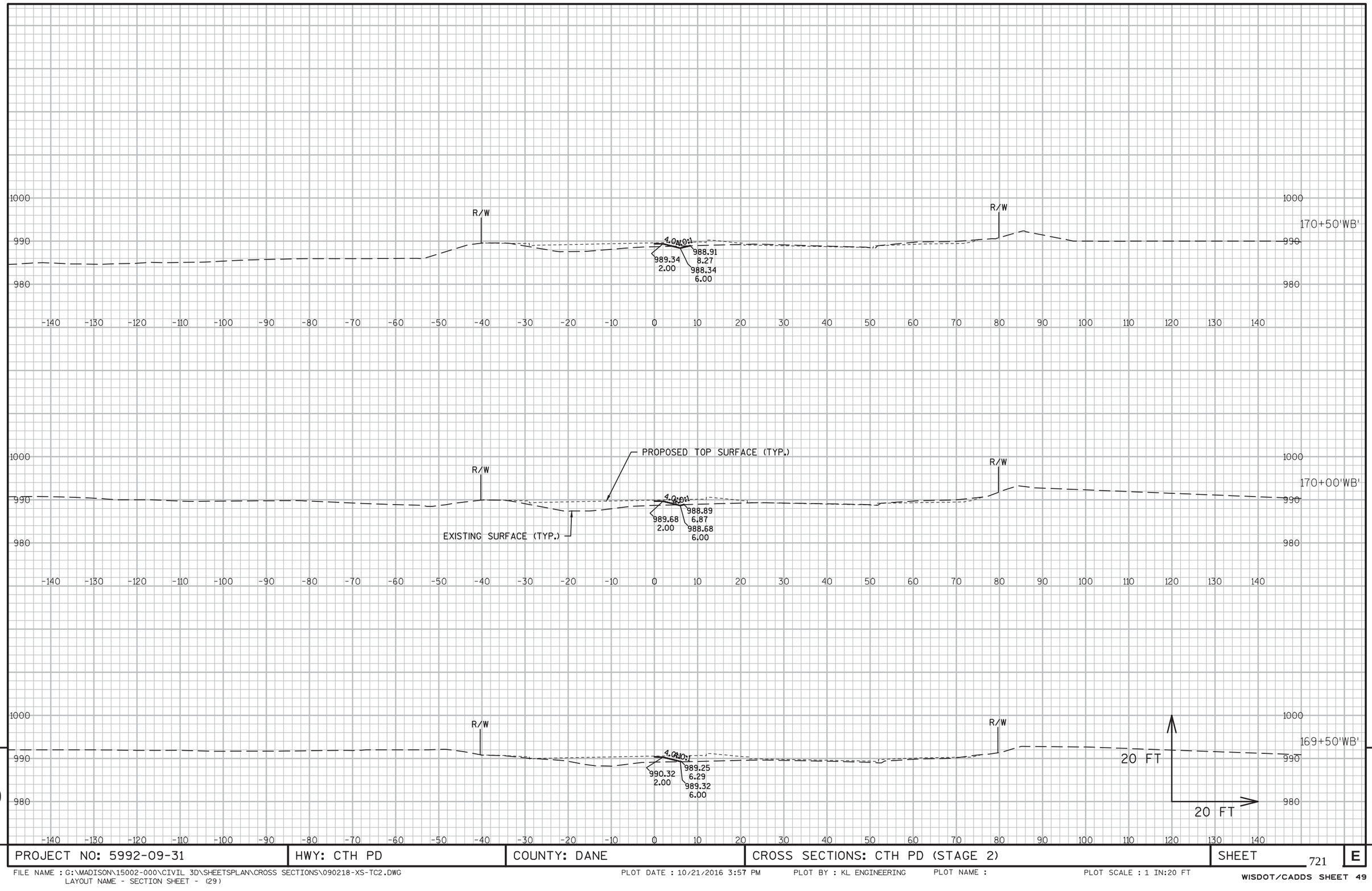
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 720	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (28)

PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

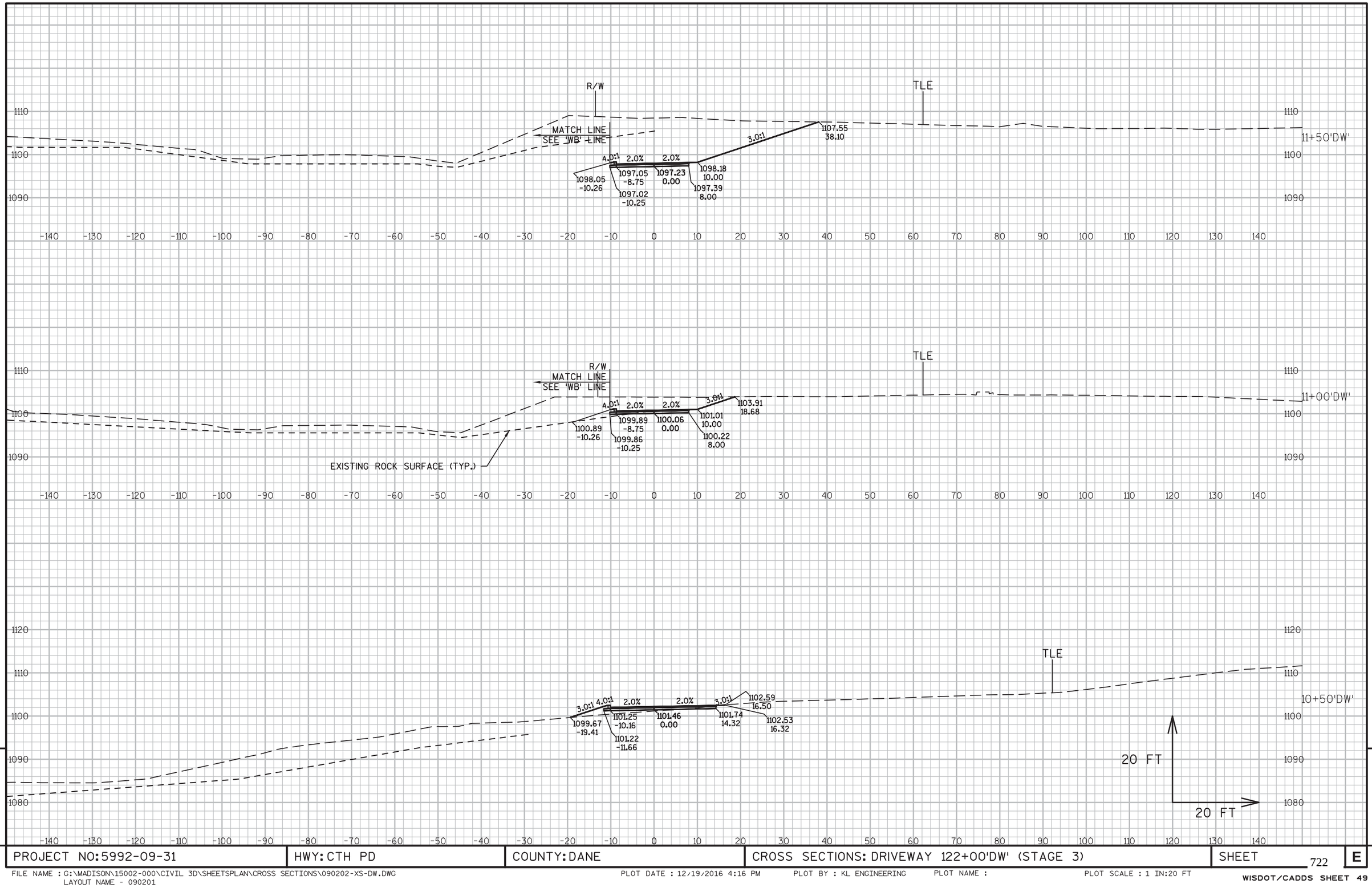
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: CTH PD (STAGE 2)	SHEET 721	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-TC2.DWG
LAYOUT NAME - SECTION SHEET - (29)

PLOT DATE : 10/21/2016 3:57 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

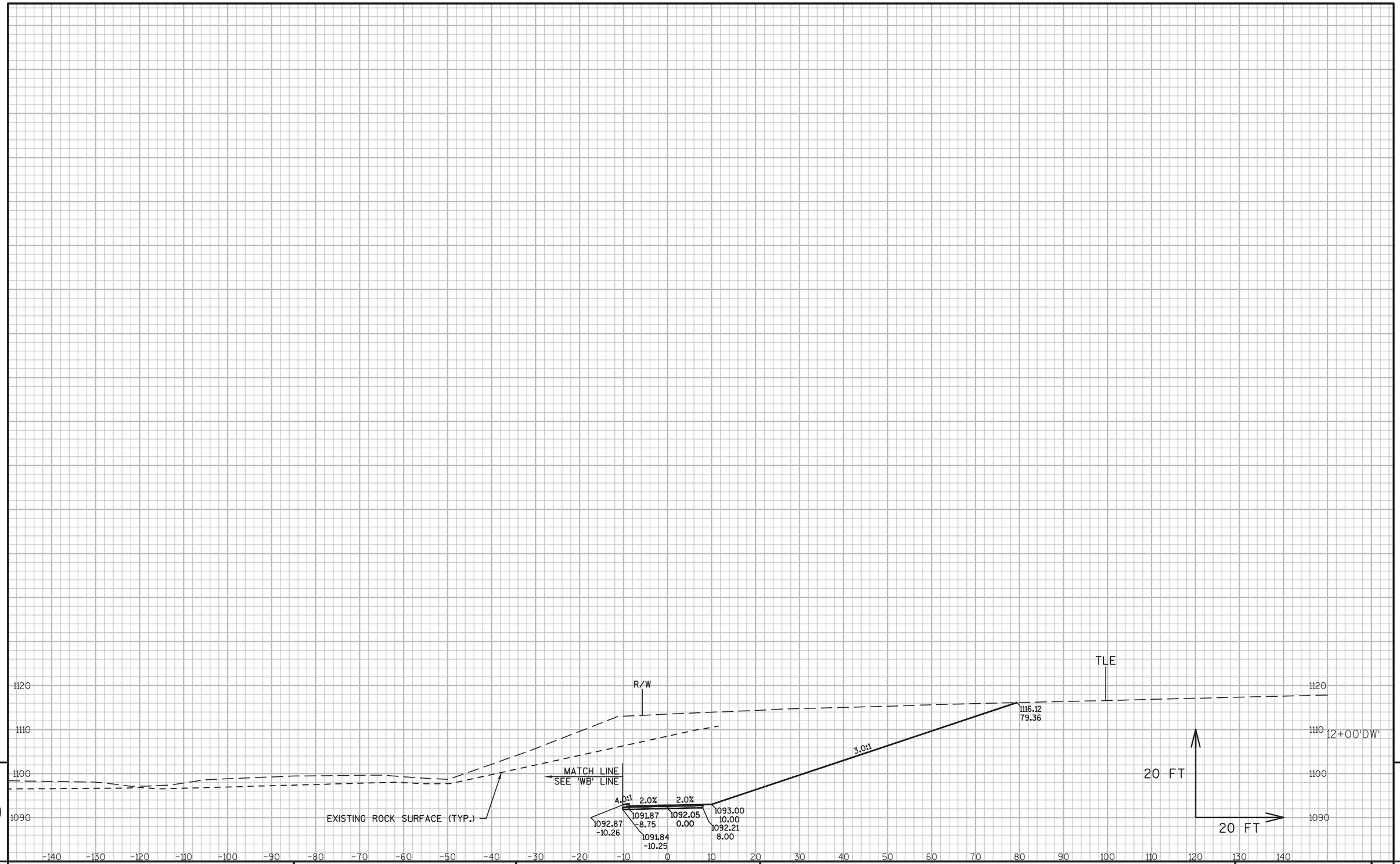


PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: DRIVEWAY 122+00'DW' (STAGE 3)	SHEET 722	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090202-XS-DW.DWG
LAYOUT NAME - 090201

PLOT DATE : 12/19/2016 4:16 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

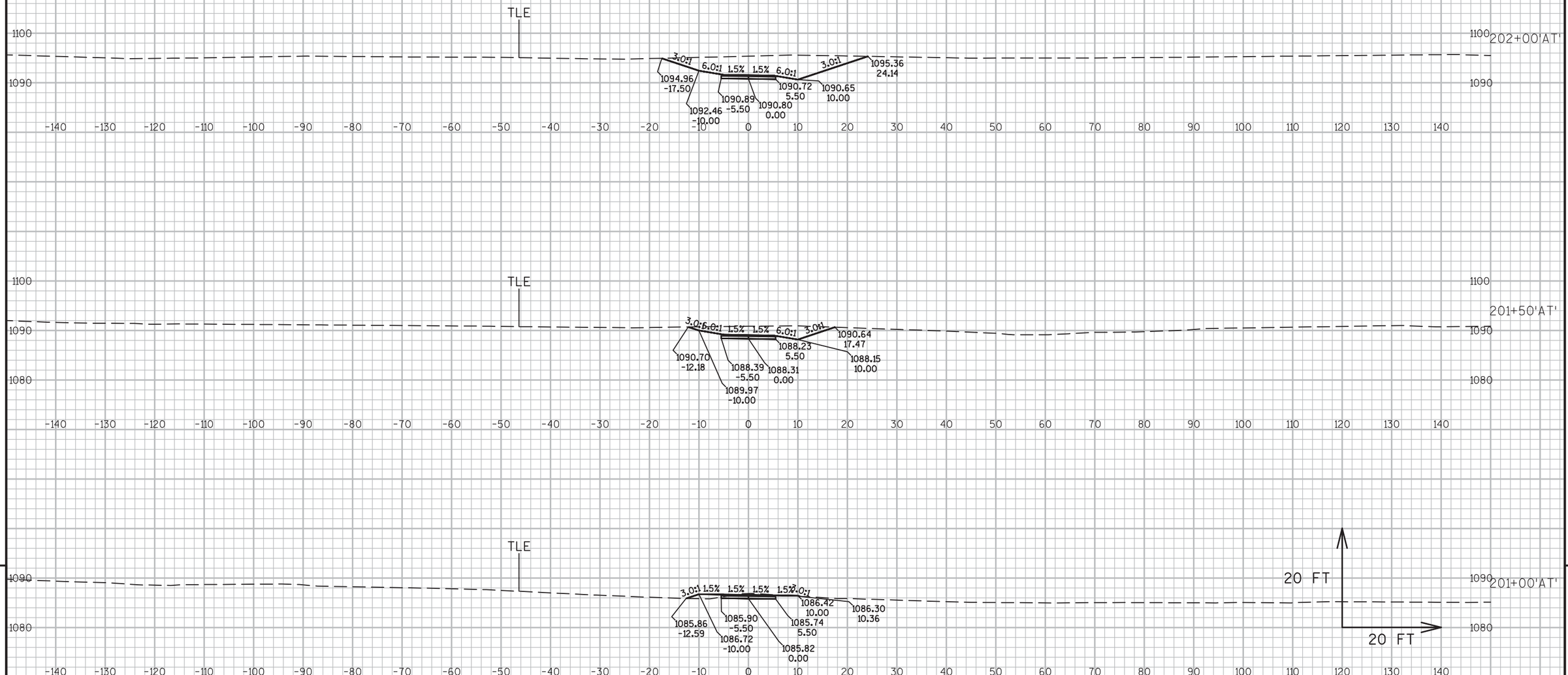


9 9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: DRIVEWAY 122+00'DW' (STAGE 3)	SHEET 723	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090202-XS-DW.DWG
LAYOUT NAME - 090201

PLOT DATE : 12/19/2016 4:16 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

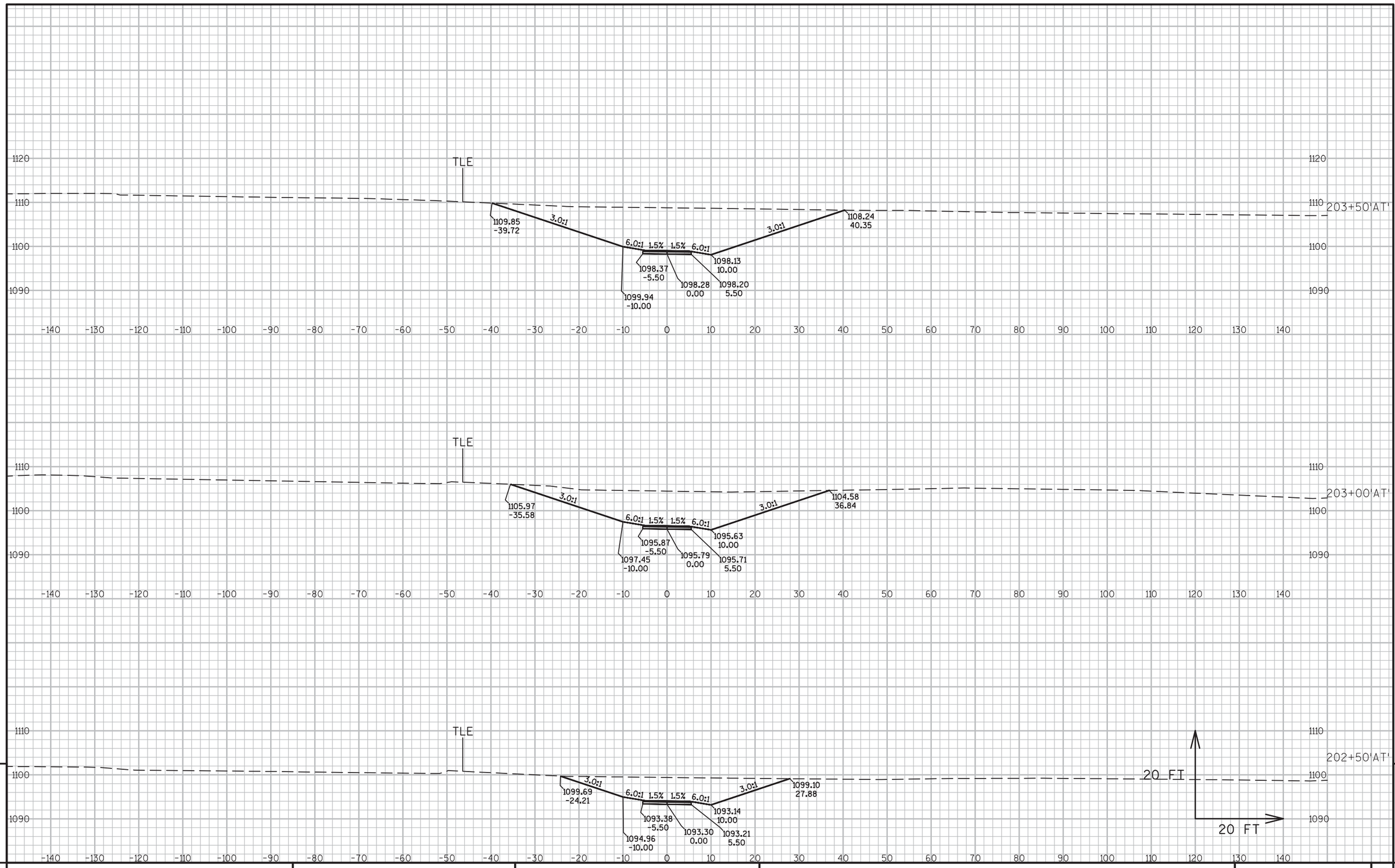
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: ICE AGE JUNCTION TRAIL (STAGE 3)	SHEET 724	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090203-XS-AT.DWG
LAYOUT NAME - 090201

PLOT DATE : 8/30/2016 4:07 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

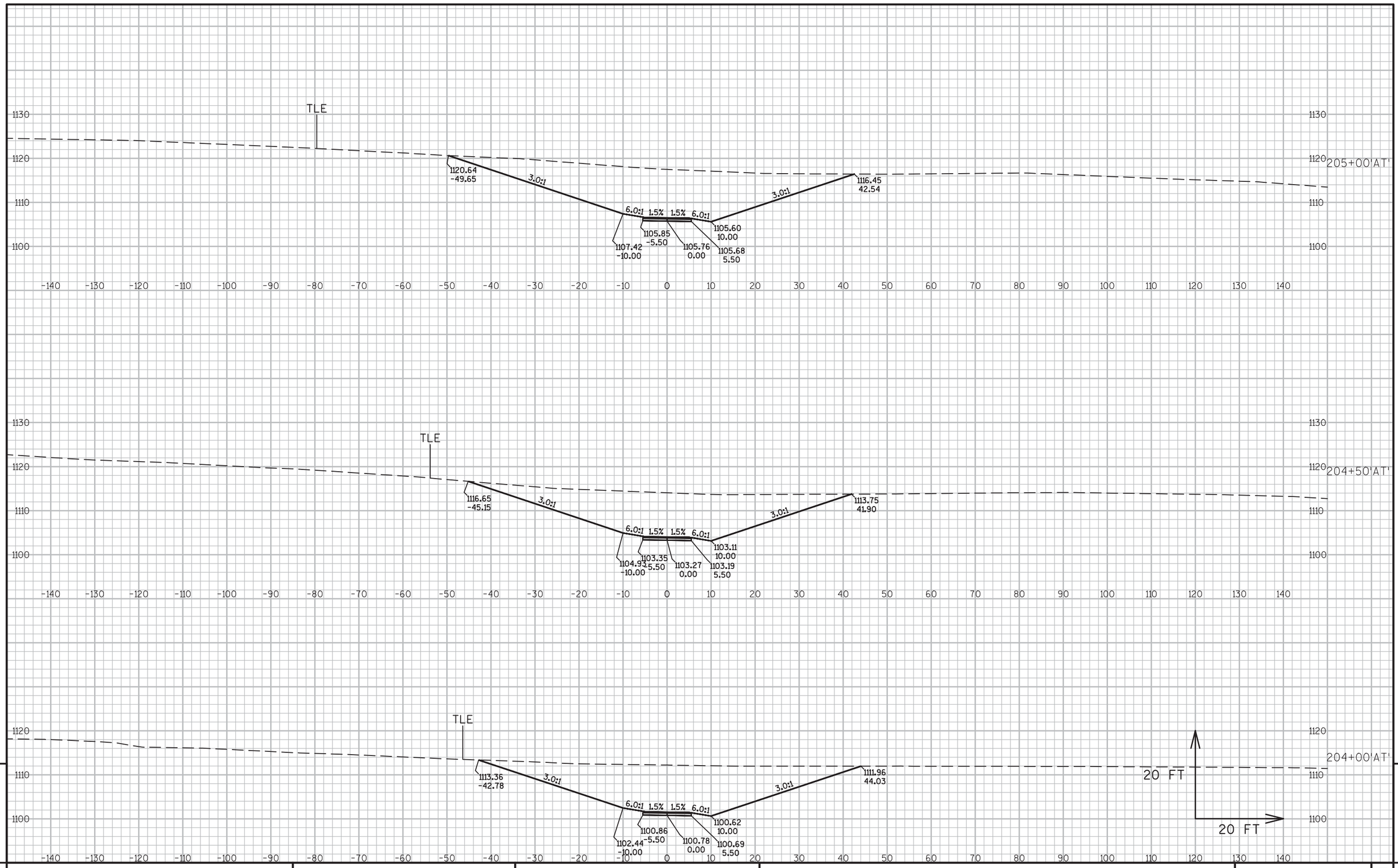


PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: ICE AGE JUNCTION TRAIL (STAGE 3)	SHEET 725	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090203-XS-AT.DWG
LAYOUT NAME - 090202

PLOT DATE : 8/30/2016 4:07 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

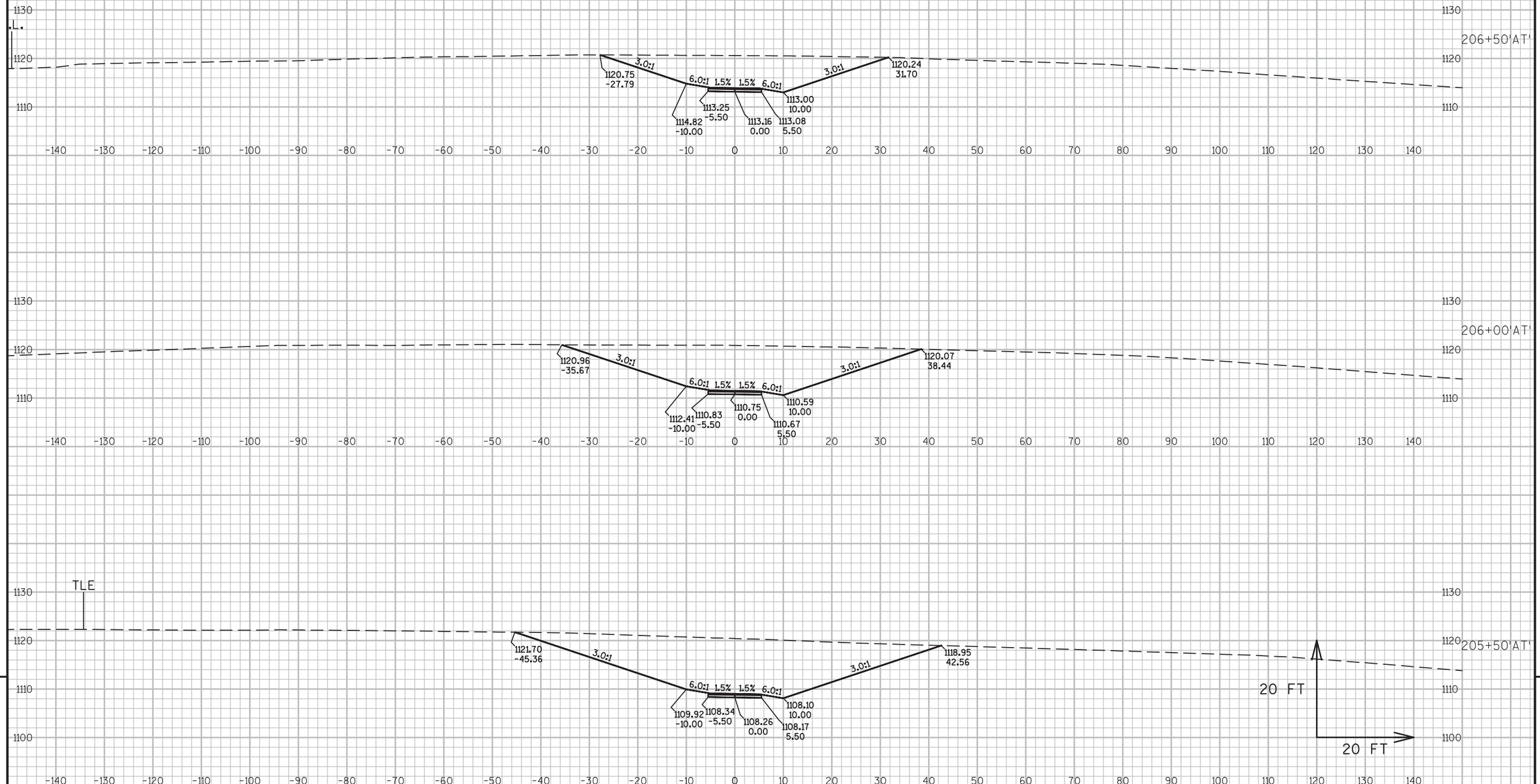


9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: ICE AGE JUNCTION TRAIL (STAGE 3)	SHEET 726	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090203-XS-AT.DWG
LAYOUT NAME - 090203
PLOT DATE : 8/30/2016 4:07 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



9

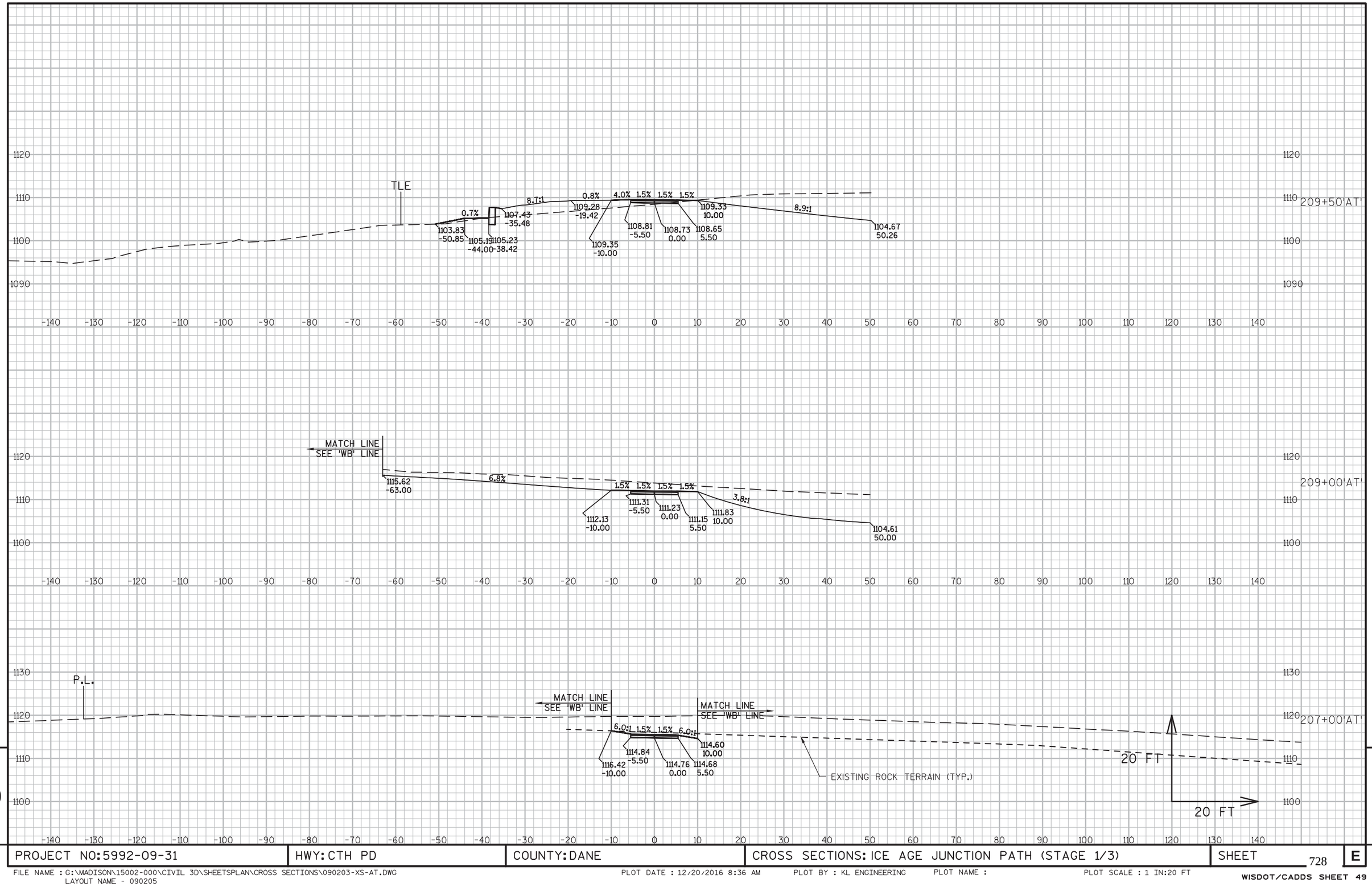
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: ICE AGE JUNCTION TRAIL (STAGE 3)	SHEET 727 E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090203-XS-AT.DWG
LAYOUT NAME - 090204

PLOT DATE : 8/30/2016 4:07 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



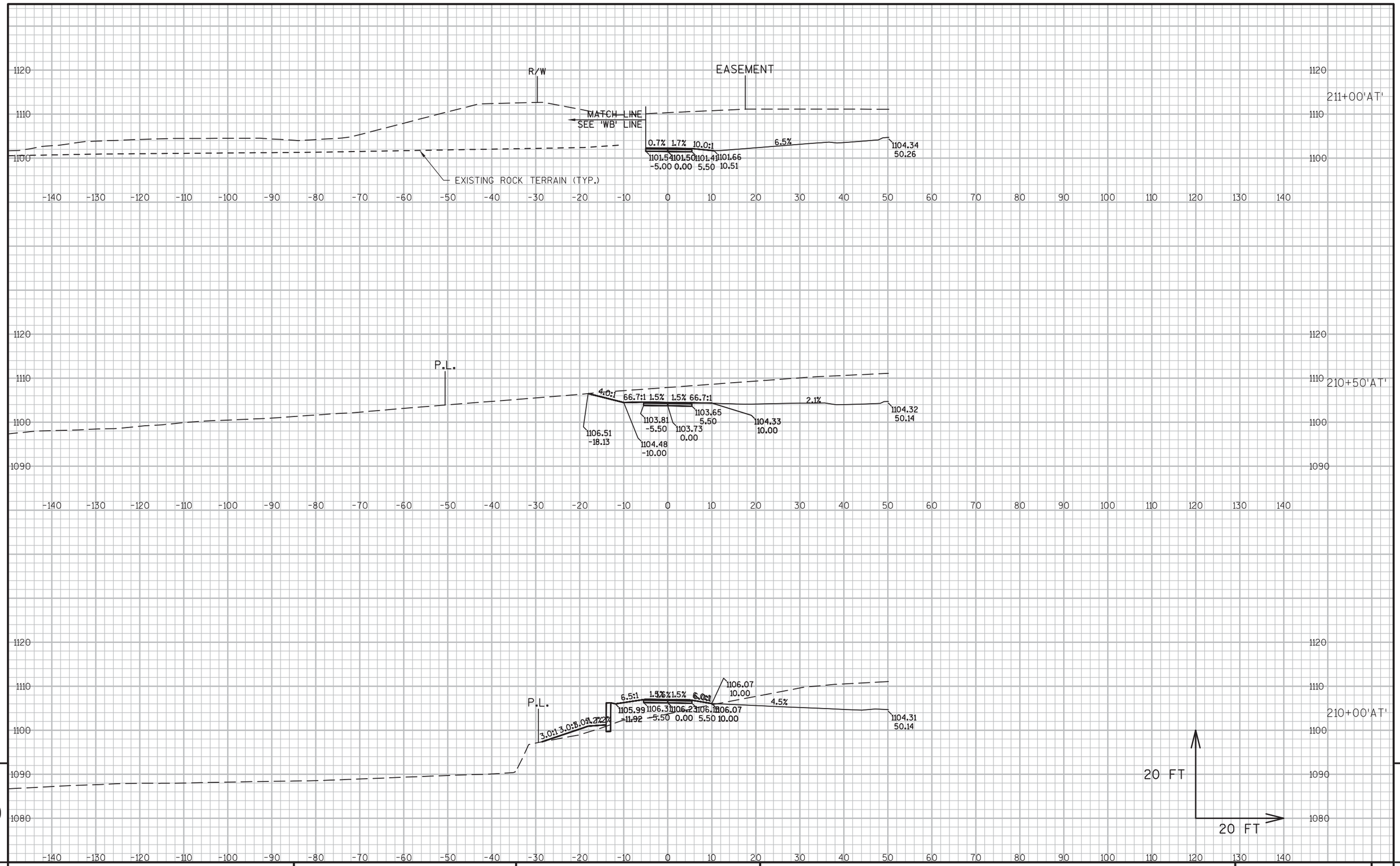
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: ICE AGE JUNCTION PATH (STAGE 1/3)	SHEET 728	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090203-XS-AT.DWG
LAYOUT NAME - 090205

PLOT DATE : 12/20/2016 8:36 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

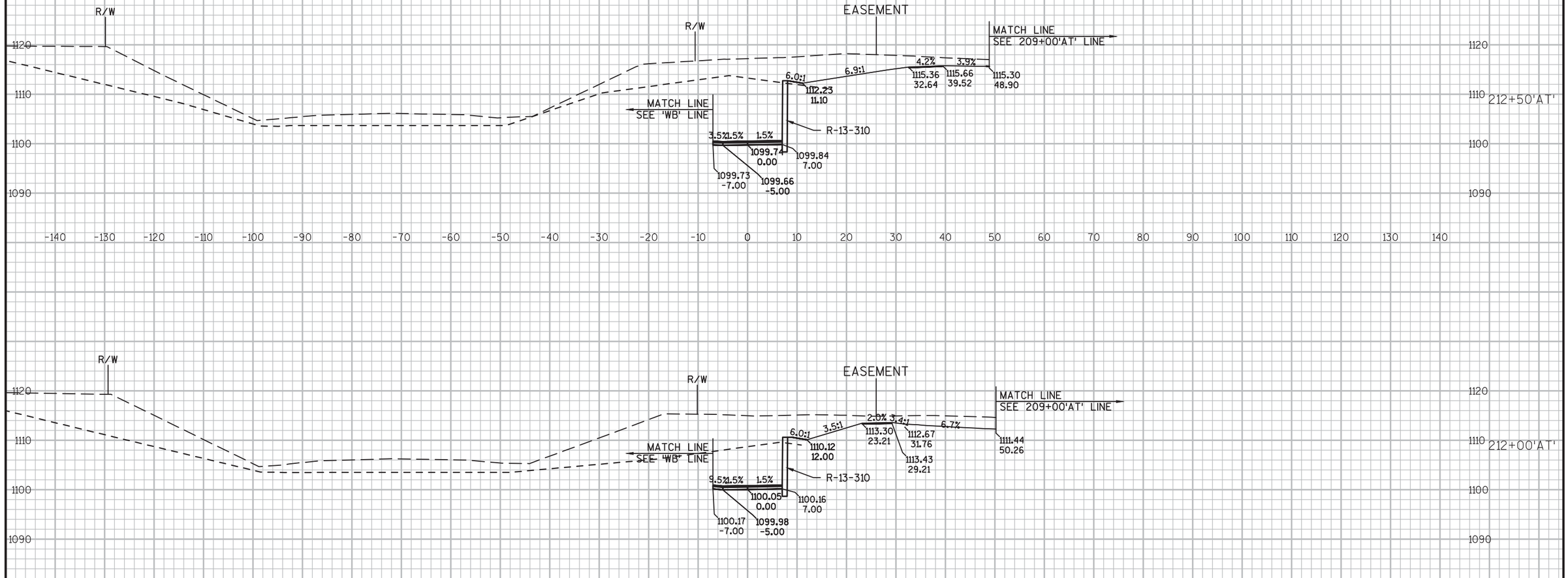


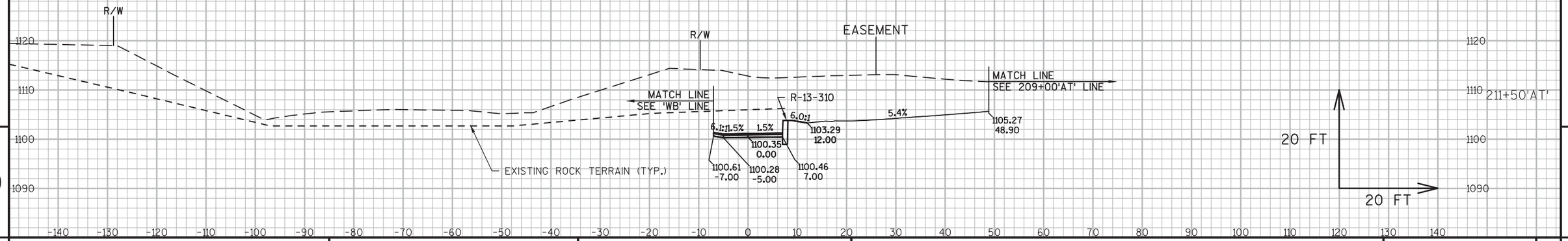
PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: ICE AGE JUNCTION PATH (STAGE 1)	SHEET 729	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090203-XS-AT.DWG
LAYOUT NAME - 090206

PLOT DATE : 12/20/2016 8:36 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

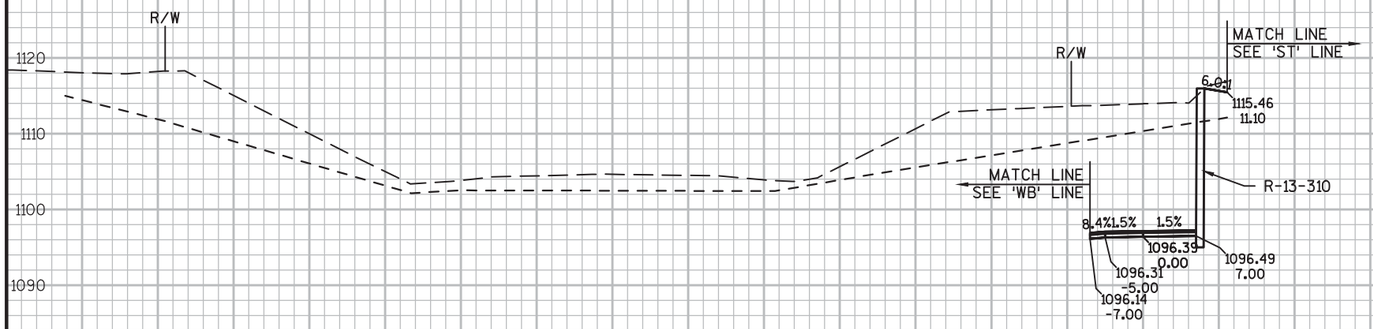


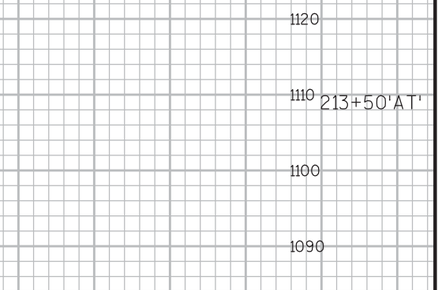


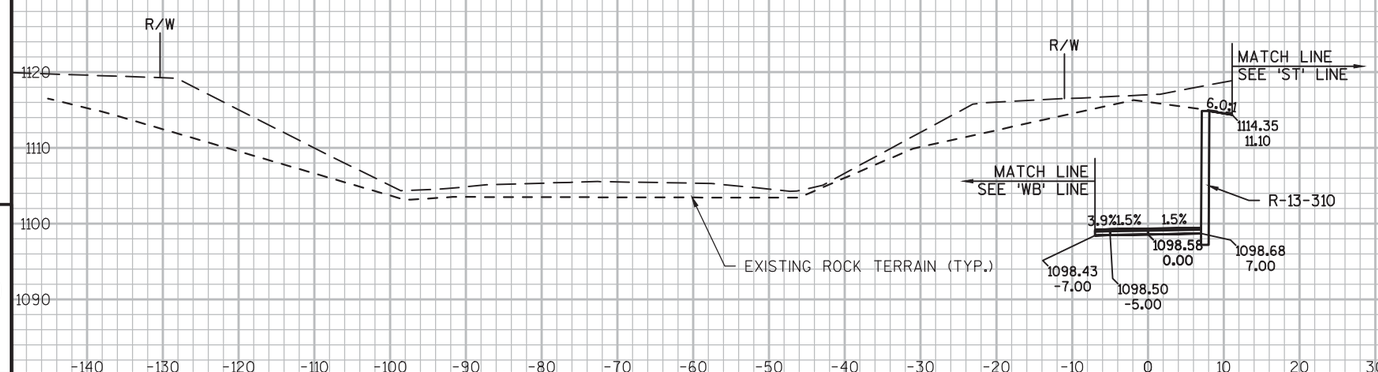
9

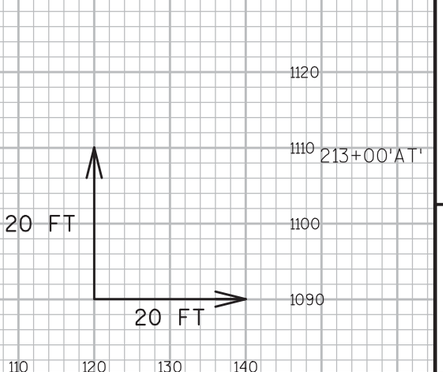
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: ICE AGE JUNCTION PATH (STAGE 1)	SHEET 730	E









9

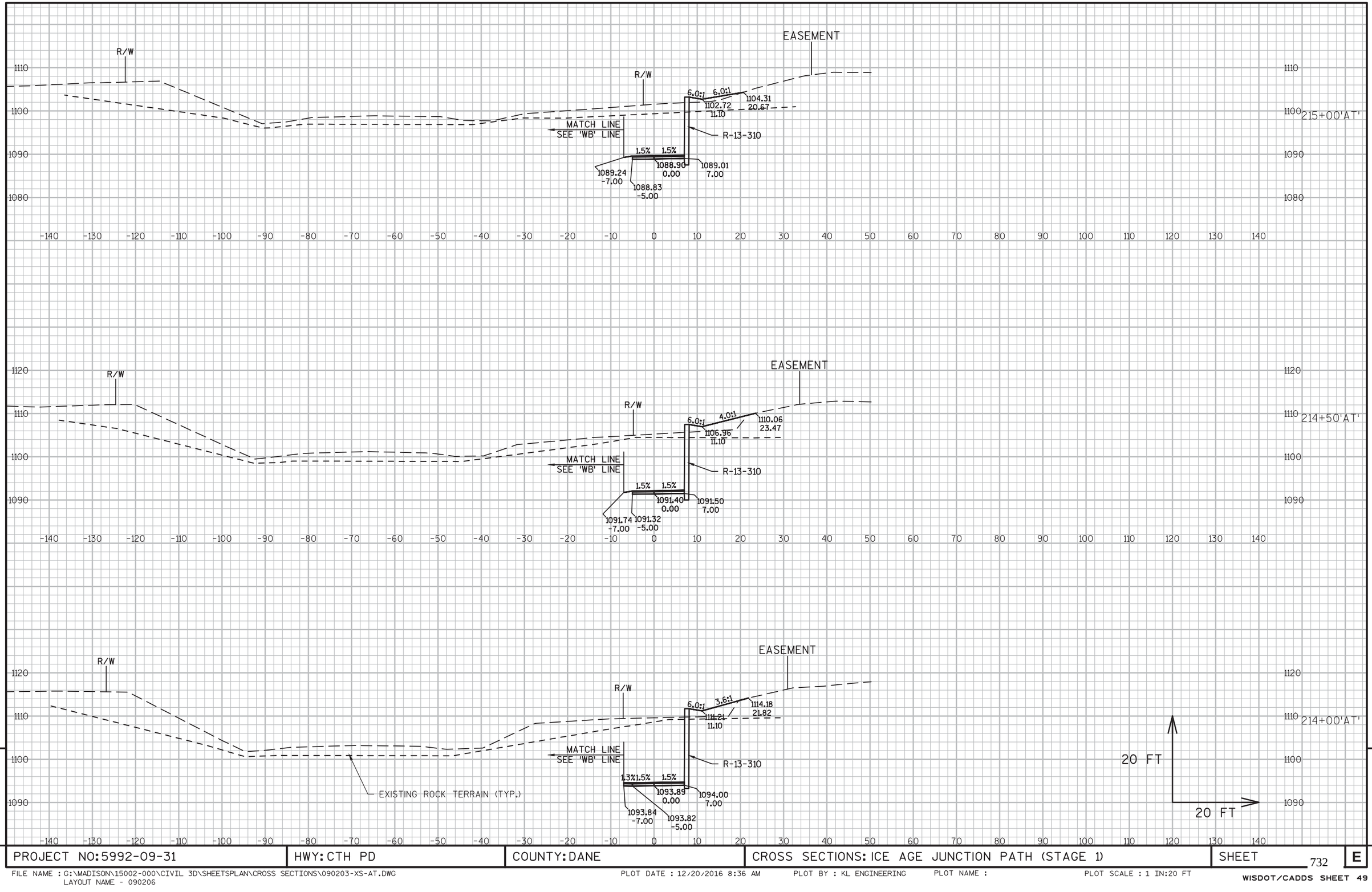
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: ICE AGE JUNCTION PATH (STAGE 1)	SHEET 731	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090203-XS-AT.DWG
LAYOUT NAME - 090206

PLOT DATE : 12/20/2016 8:56 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

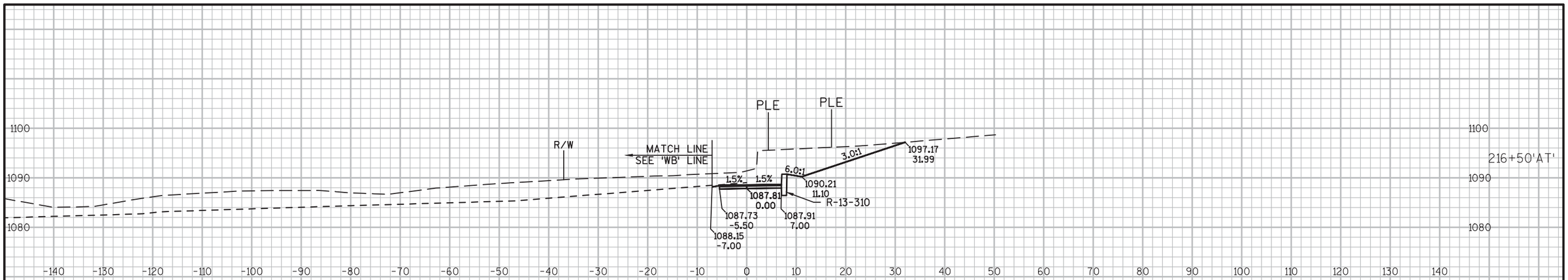


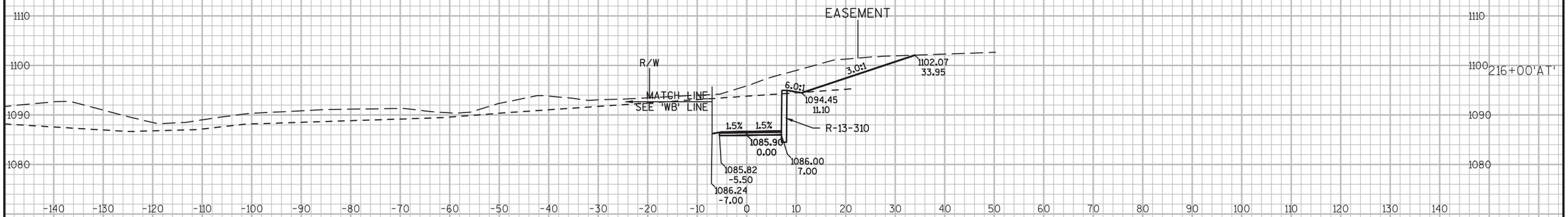
9

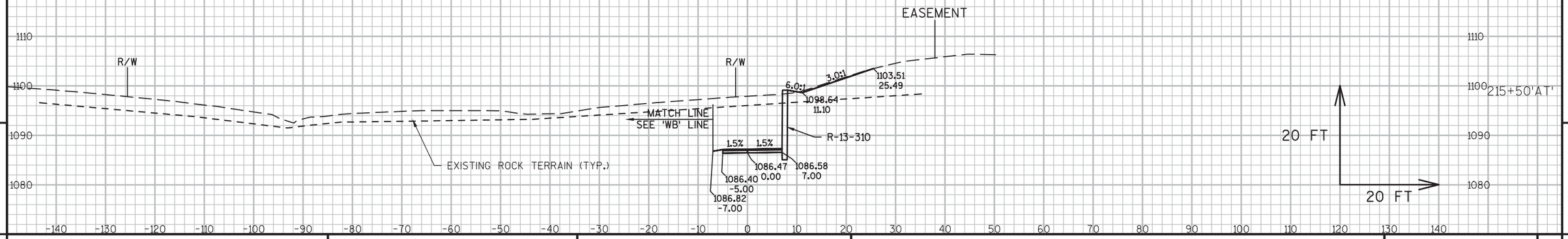
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: ICE AGE JUNCTION PATH (STAGE 1)	SHEET 732	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090203-XS-AT.DWG
LAYOUT NAME - 090206
PLOT DATE : 12/20/2016 8:36 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49





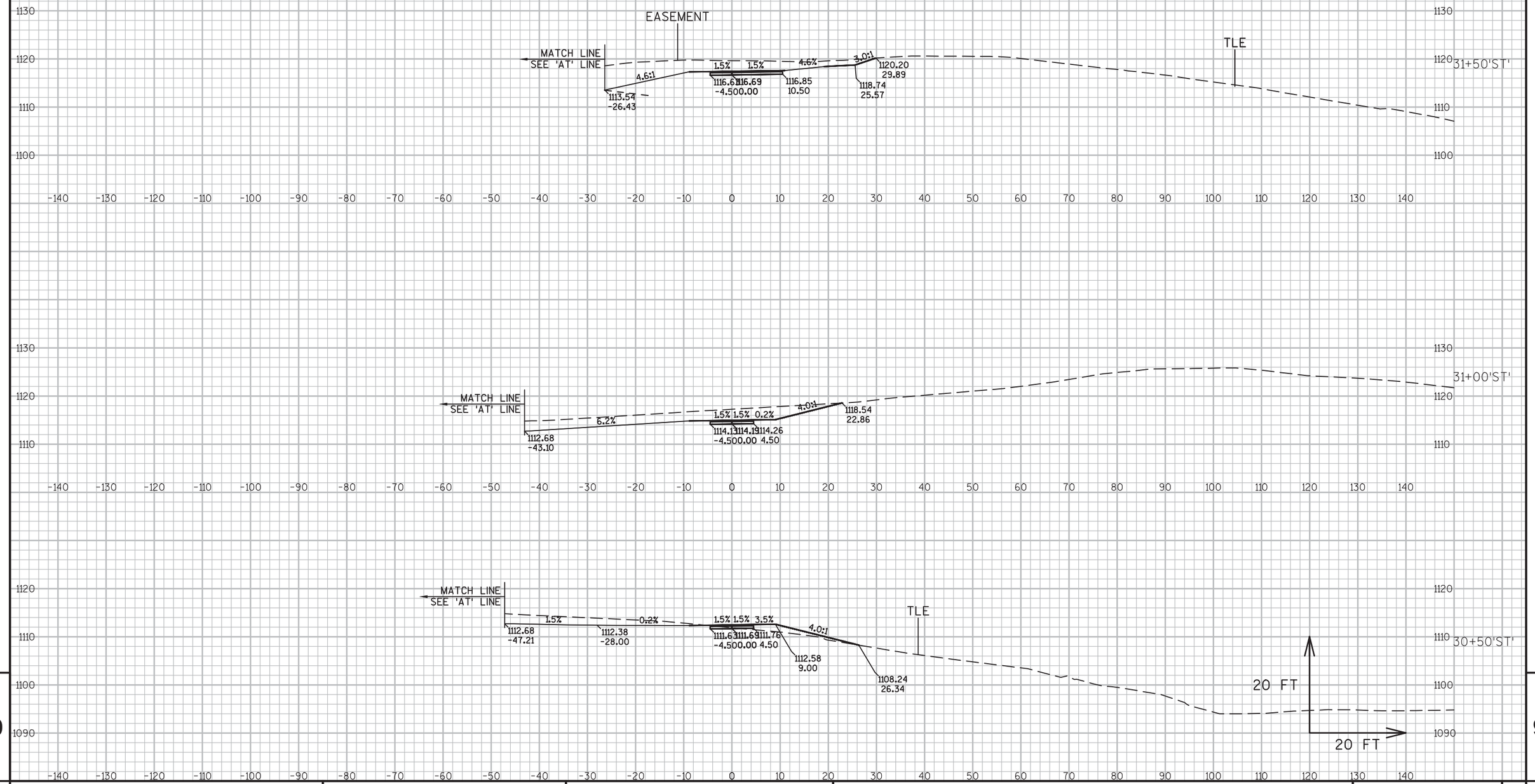


9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: ICE AGE JUNCTION PATH (STAGE 1)	SHEET 733	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090203-XS-AT.DWG
LAYOUT NAME - 090206
PLOT DATE : 12/20/2016 8:36 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

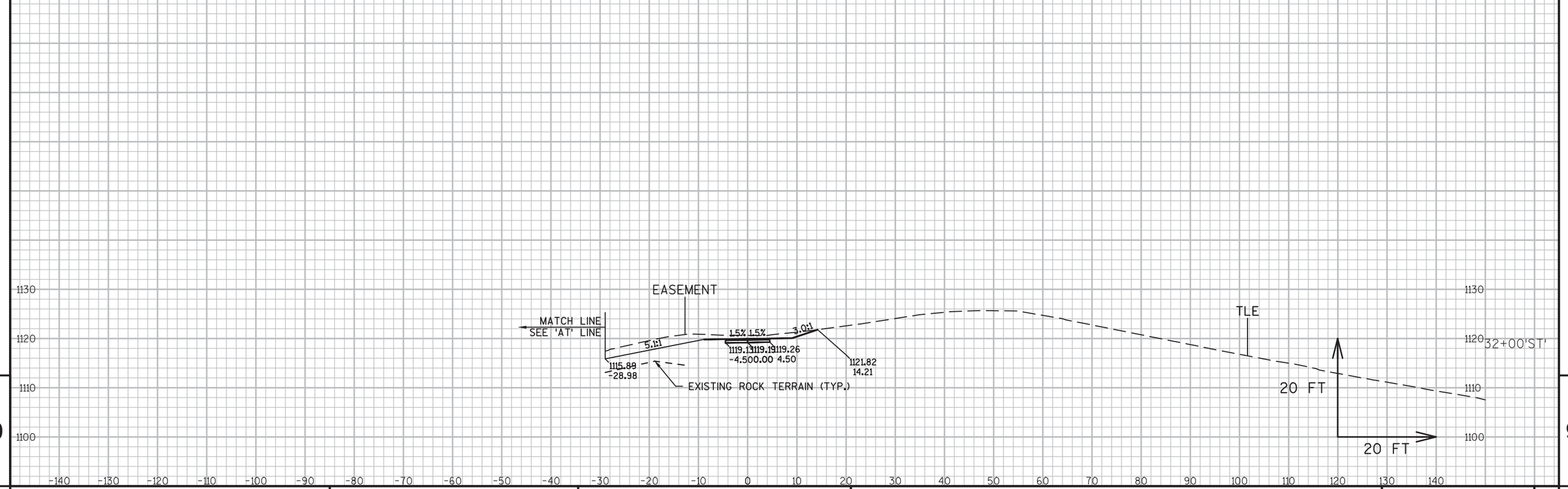


9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: SNOWYCAP TRAIL (STAGE 2)	SHEET 734	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090204-XS-ST.DWG
LAYOUT NAME - 090201
PLOT DATE : 12/20/2016 8:51 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



9

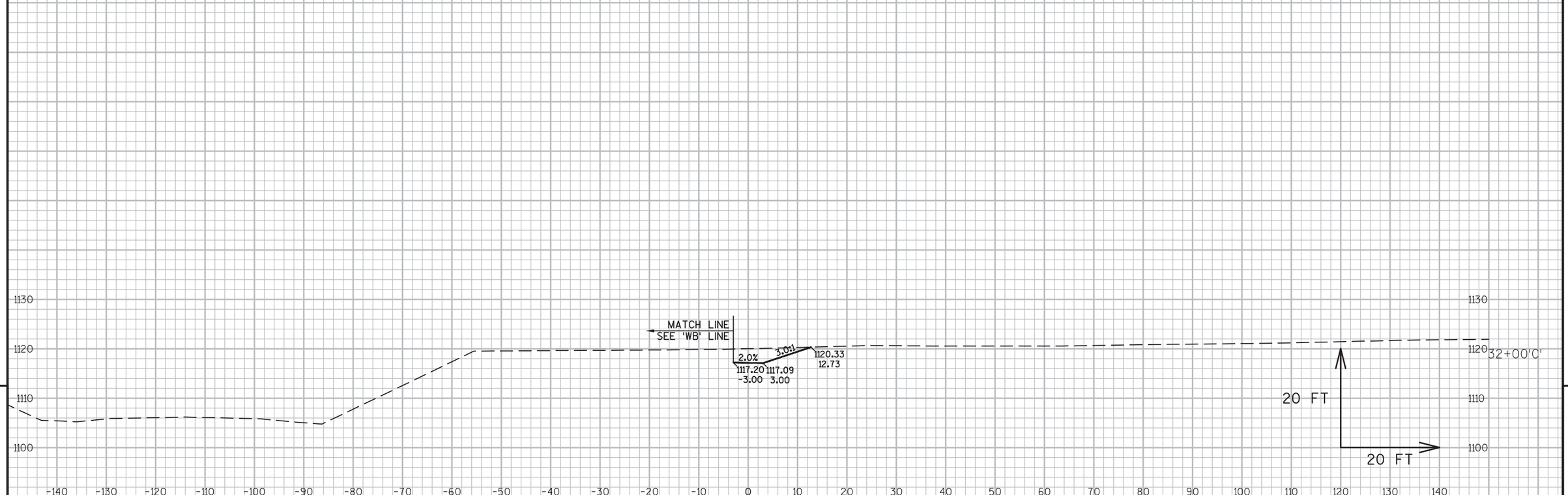
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: SNOWYCAP TRAIL (STAGE 2)	SHEET 735	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090204-XS-ST.DWG
LAYOUT NAME - 090202

PLOT DATE : 12/20/2016 8:51 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

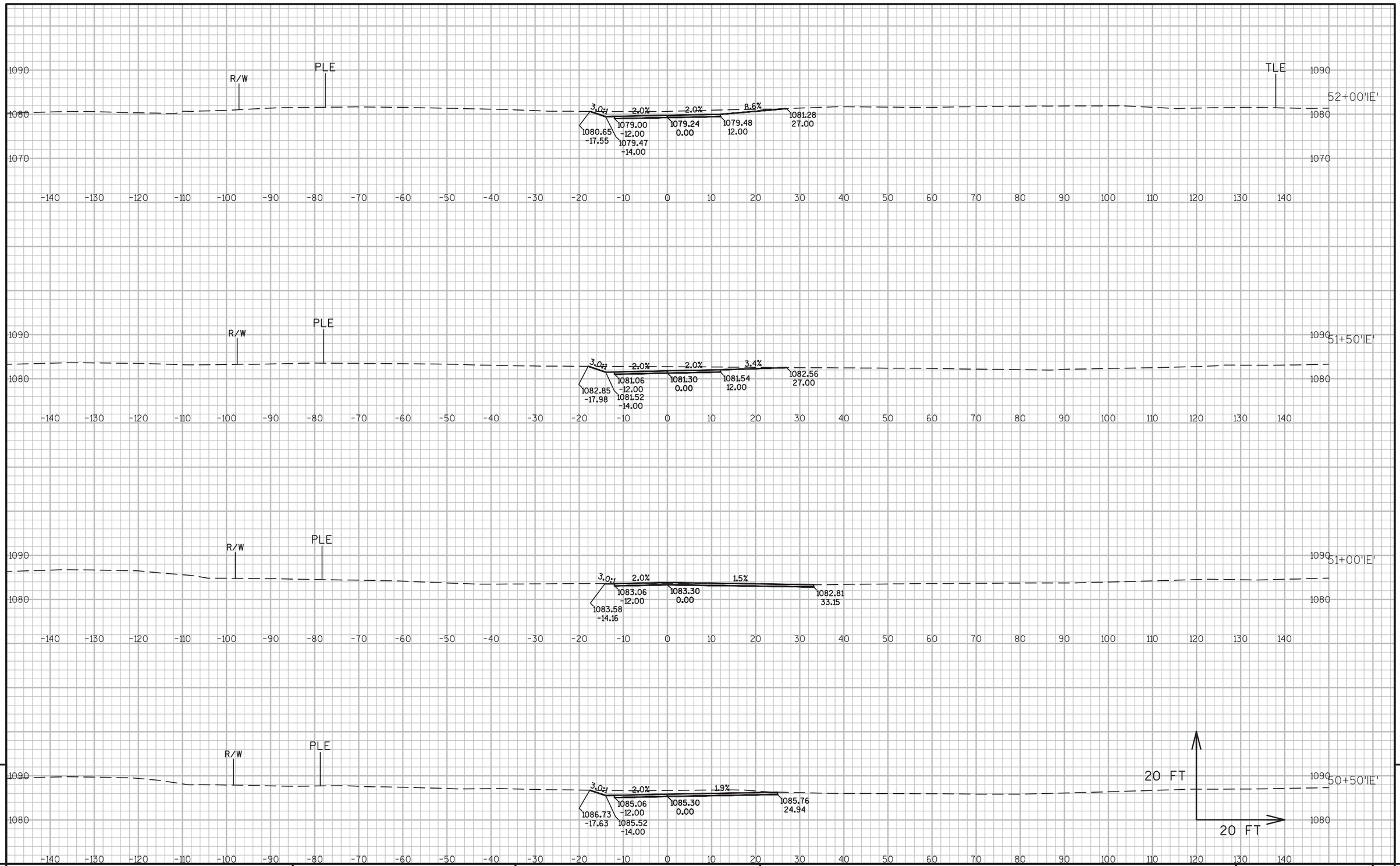
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: ICE AGE TRAIL (STAGE 3)	SHEET 736	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090206-XS-C.DWG
LAYOUT NAME - SECTION SHEET - (1)

PLOT DATE : 8/30/2016 4:09 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



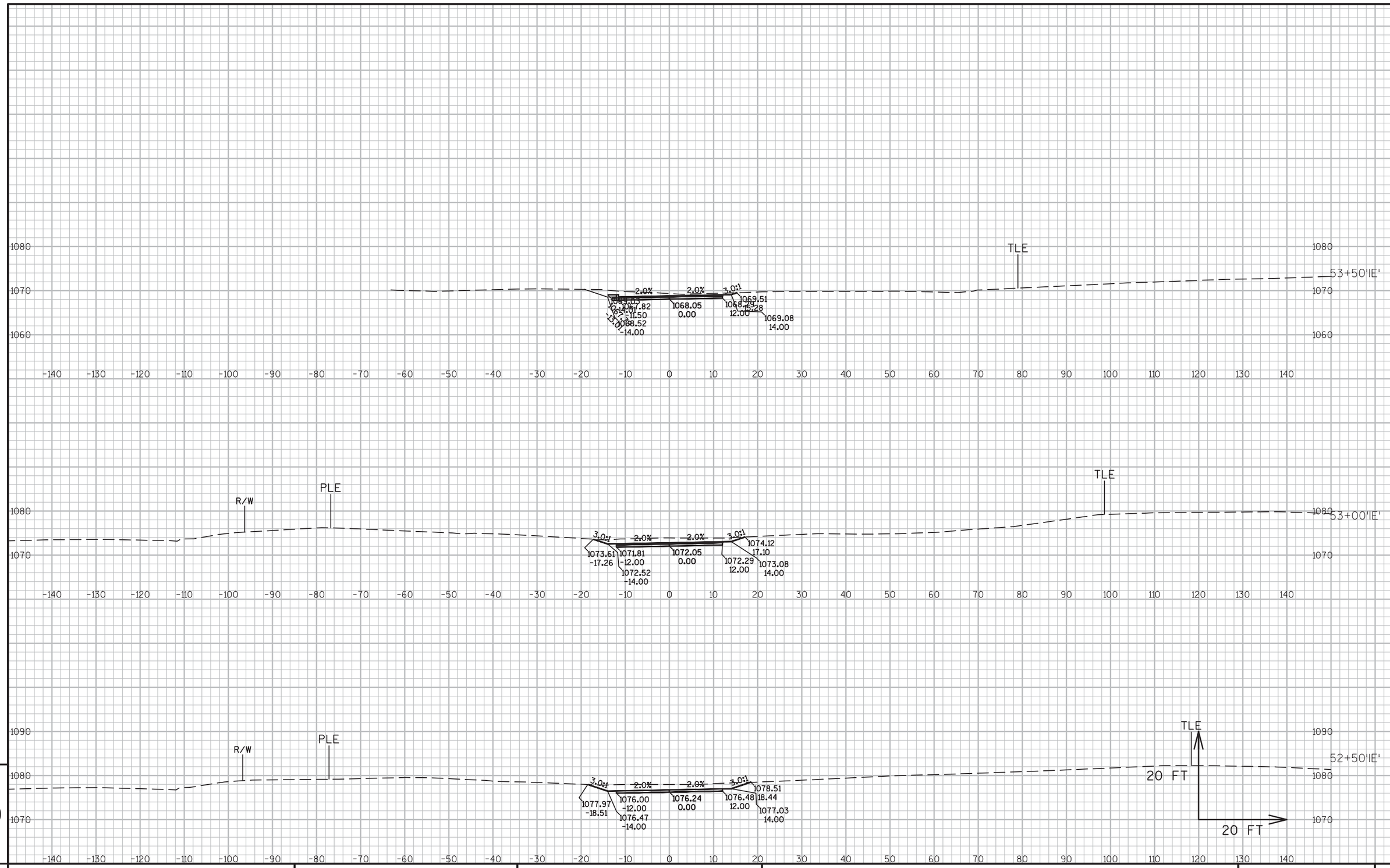
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: ICE AGE TRAIL ENTRANCE (STAGE 1)	SHEET 737	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090208-XS-IE.DWG
LAYOUT NAME - 090201

PLOT DATE : 8/30/2016 4:10 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



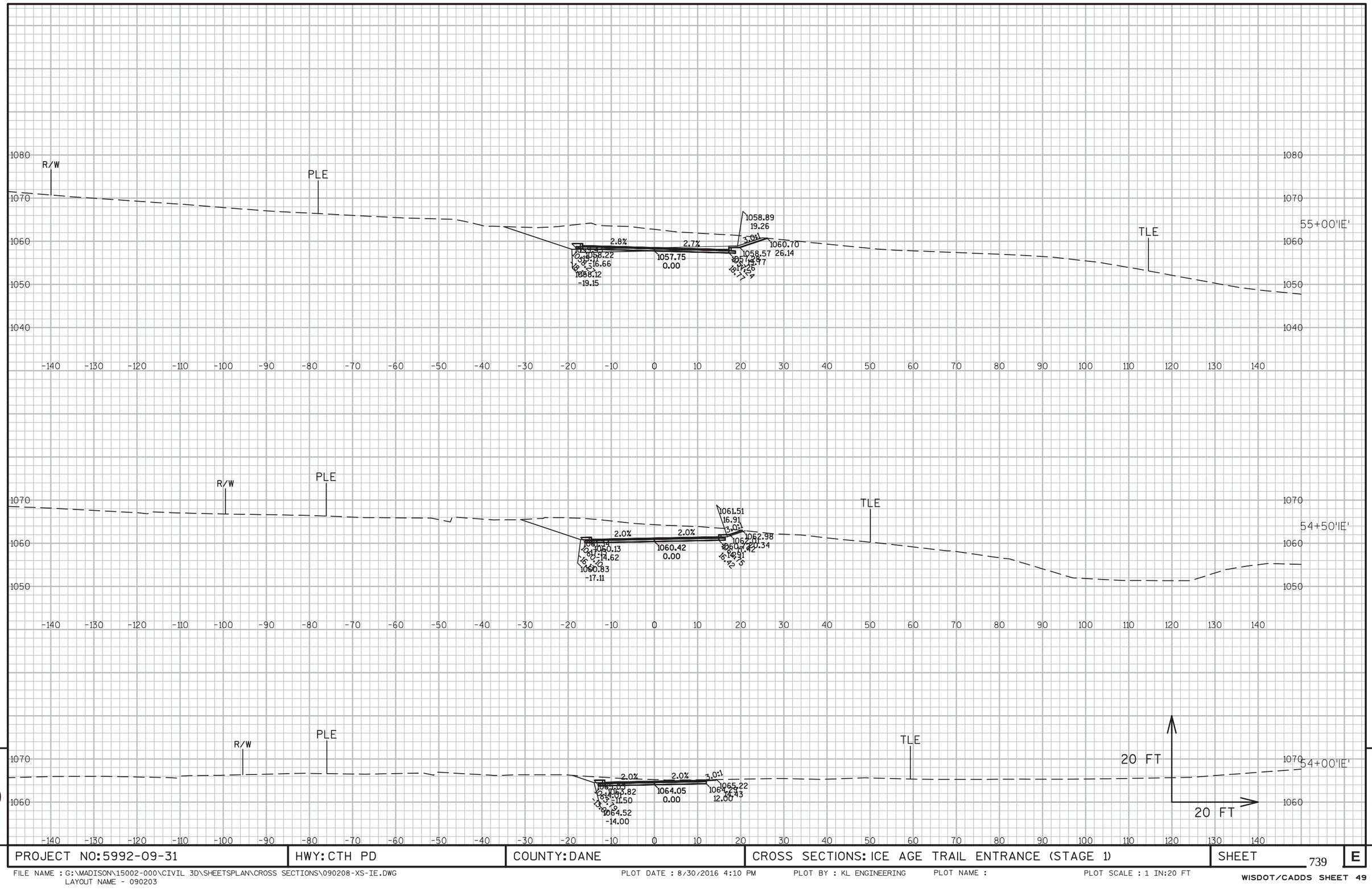
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: ICE AGE TRAIL ENTRANCE (STAGE 1)	SHEET 738	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090208-XS-IE.DWG
LAYOUT NAME - 090202

PLOT DATE : 8/30/2016 4:10 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



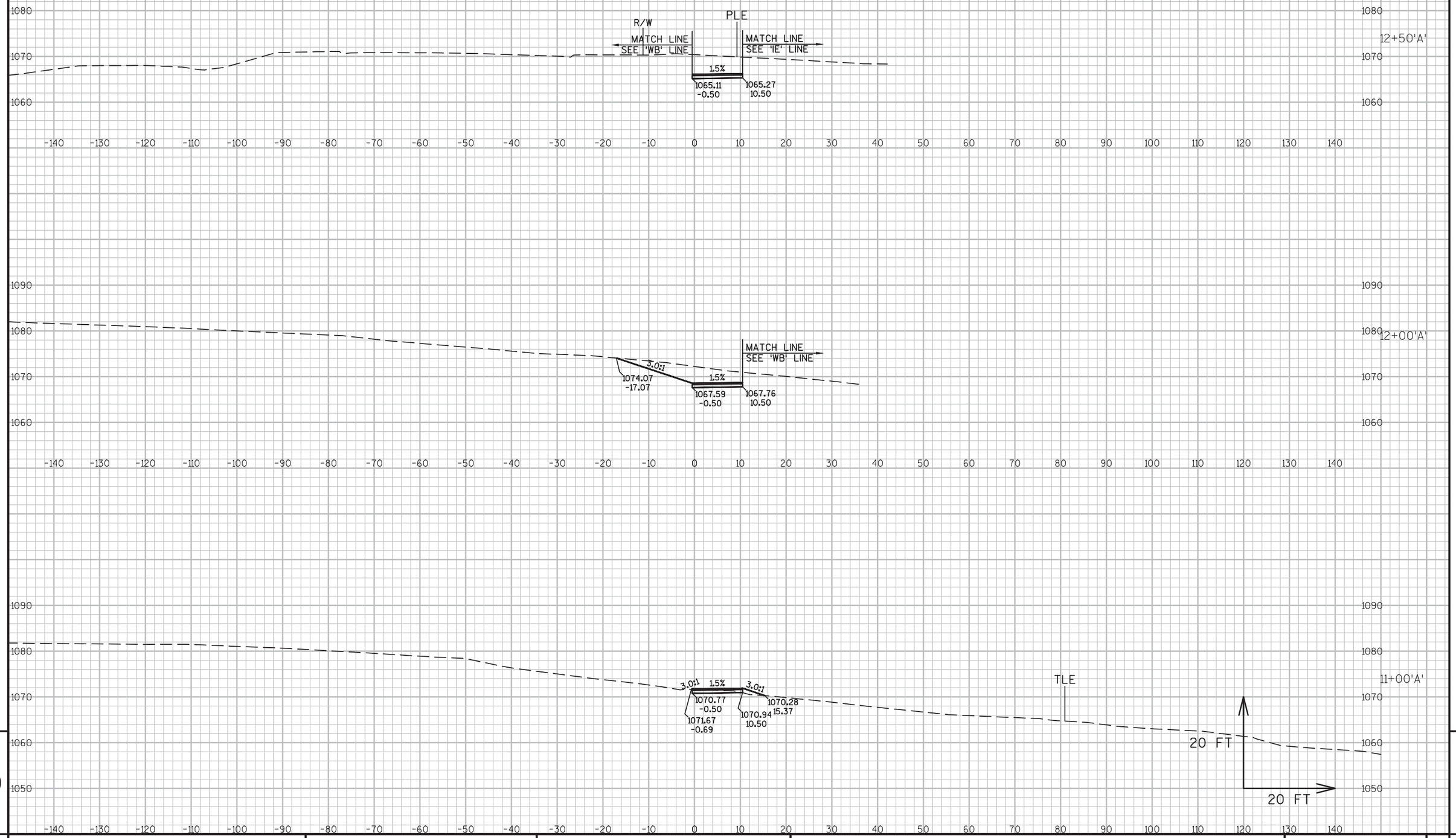
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: ICE AGE TRAIL ENTRANCE (STAGE 1)	SHEET 739	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090208-XS-IE.DWG
LAYOUT NAME - 090203

PLOT DATE : 8/30/2016 4:10 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

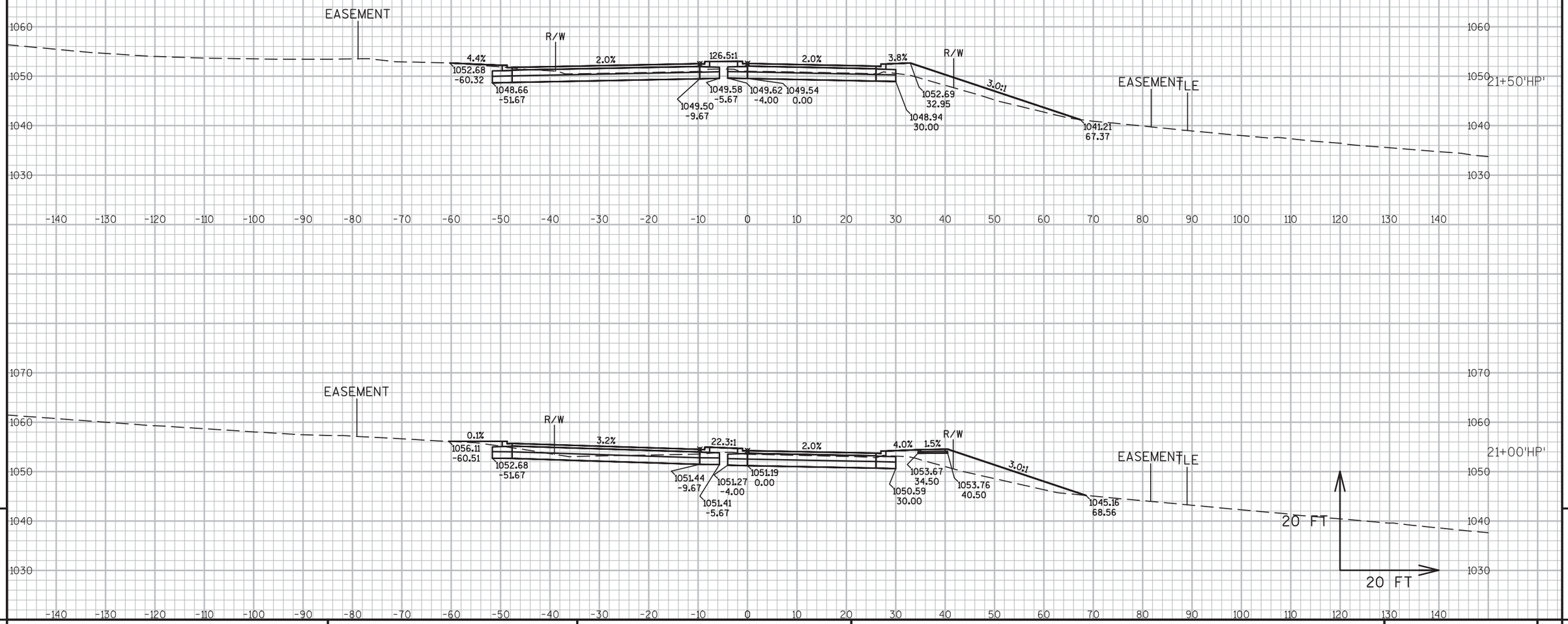


PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: TRAIL A (STAGE 1)	SHEET 740	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090209-XS-A.DWG
LAYOUT NAME - SECTION SHEET - (1)

PLOT DATE : 8/30/2016 4:11 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

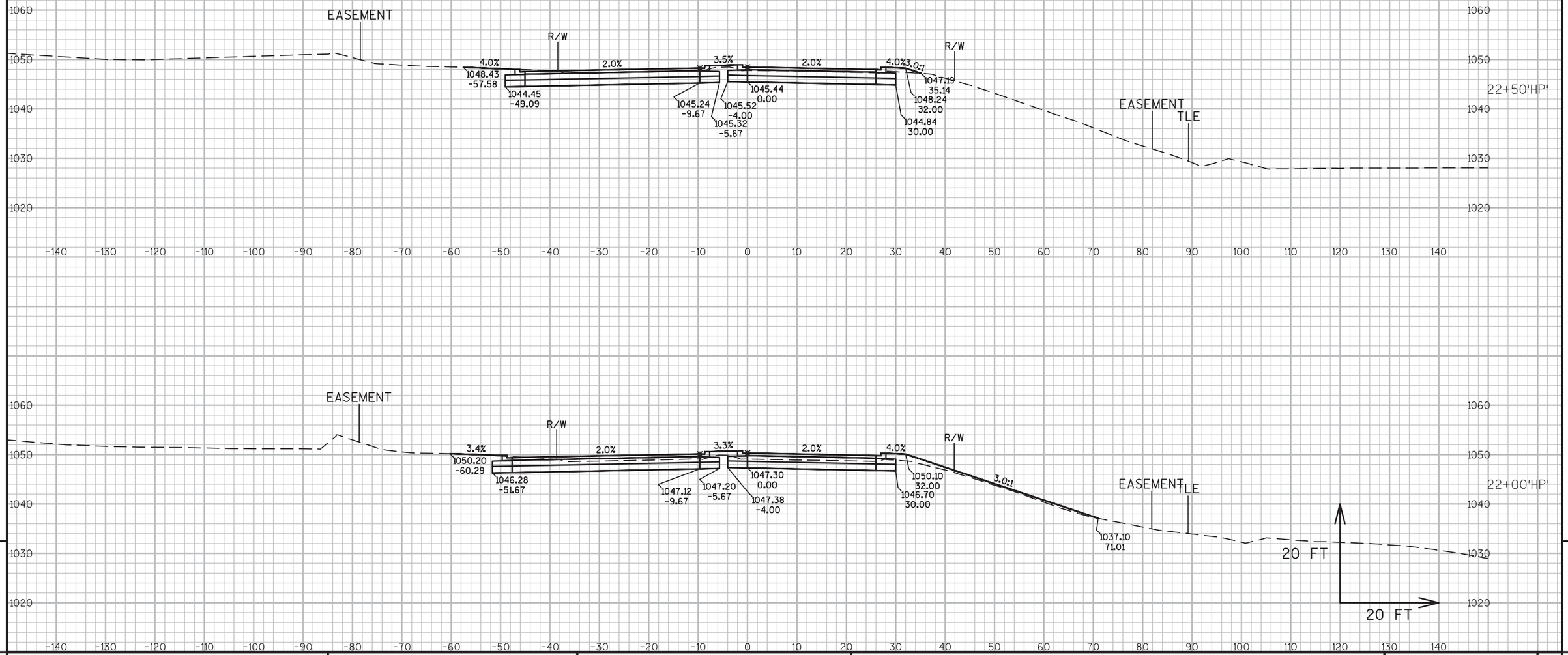
9

PROJECT NO:5992-09-31	HWY:CTH PD	COUNTY:DANE	CROSS SECTIONS:SOUTH HIGH POINT ROAD (STAGE 2)	SHEET 741	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090210-XS-HP.DWG
LAYOUT NAME - 090201

PLOT DATE : 8/30/2016 4:12 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

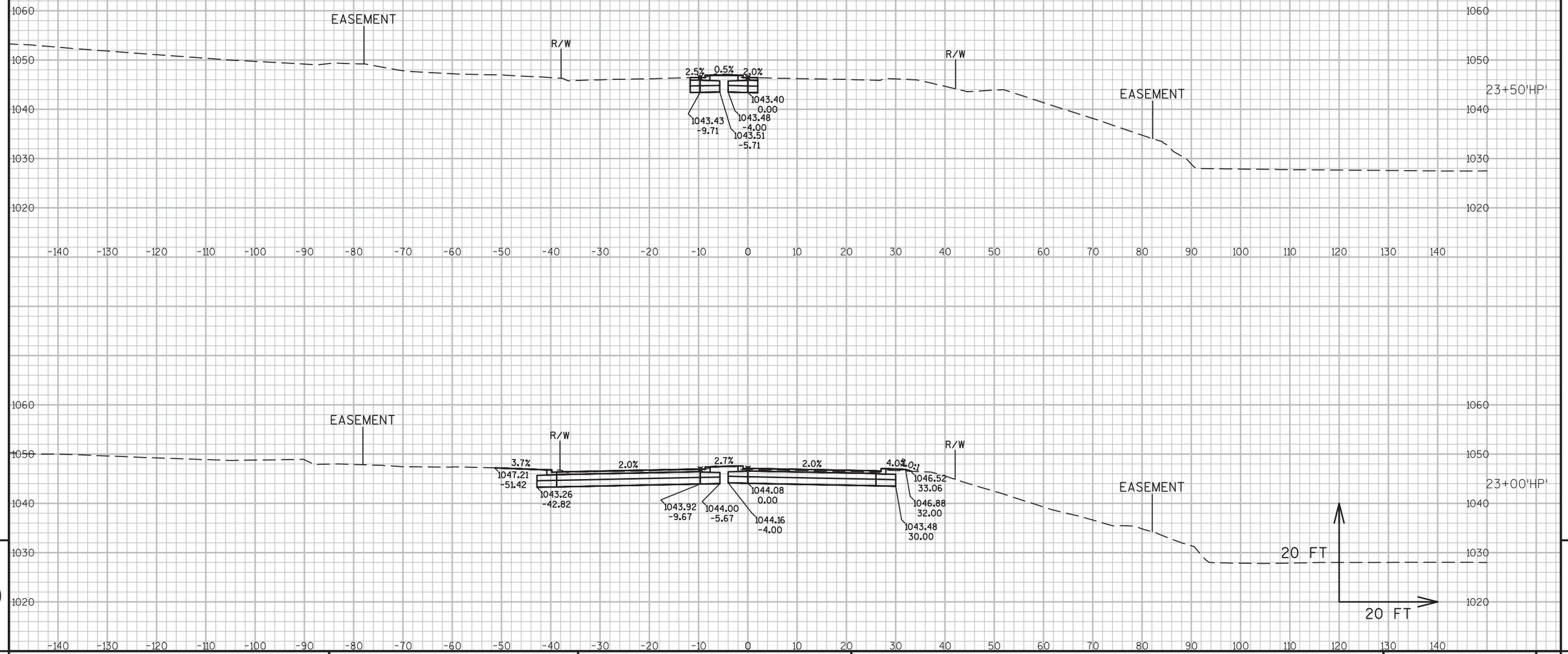
WISDOT/CADDS SHEET 49



9 9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: SOUTH HIGH POINT ROAD (STAGE 2)	SHEET 742	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090210-XS-HP.DWG
LAYOUT NAME - 090202
PLOT DATE : 8/30/2016 4:12 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



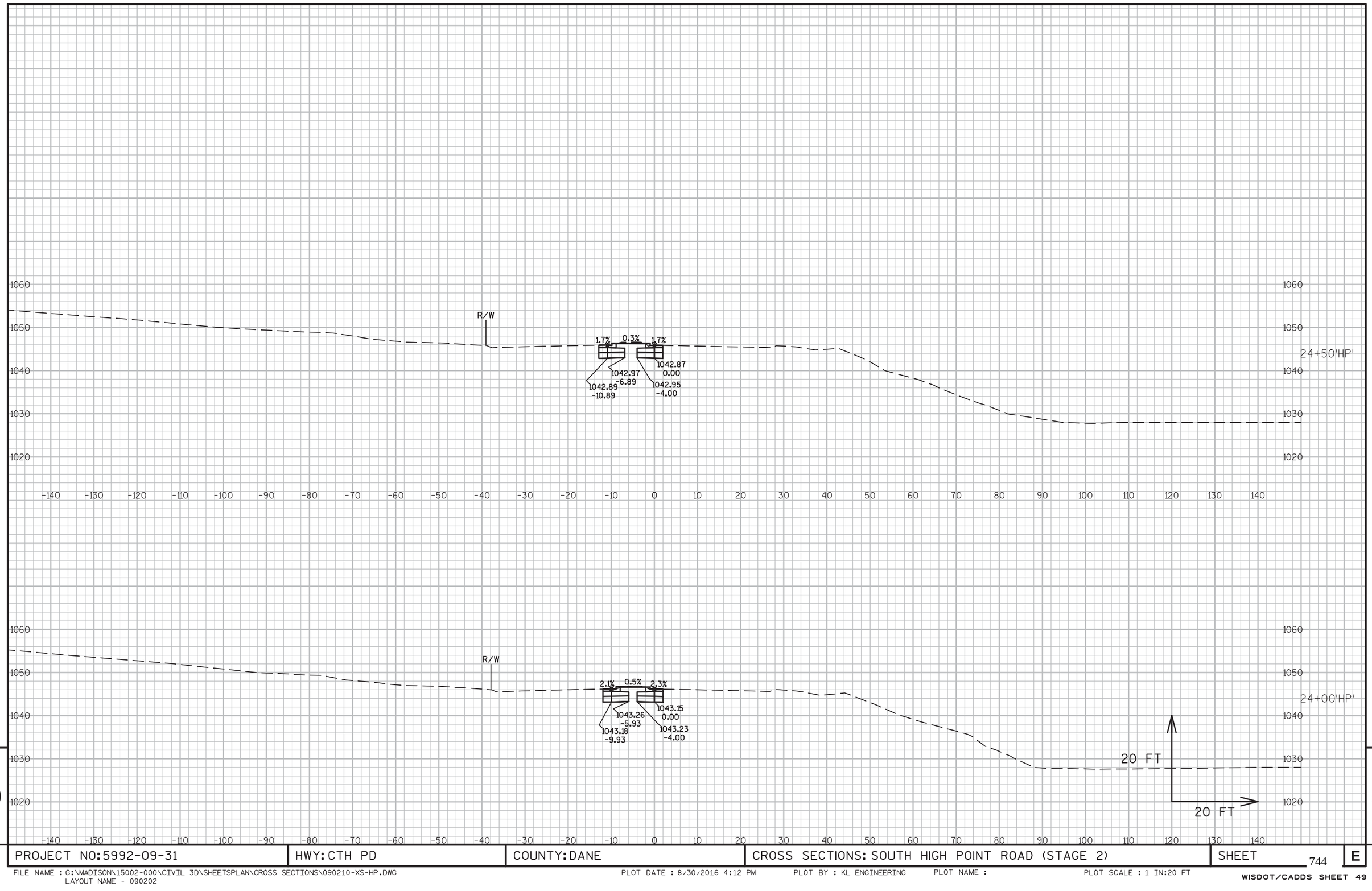
9

9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: SOUTH HIGH POINT ROAD (STAGE 2)	SHEET 743	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090210-XS-HP.DWG
LAYOUT NAME - 090202

PLOT DATE : 8/30/2016 4:12 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



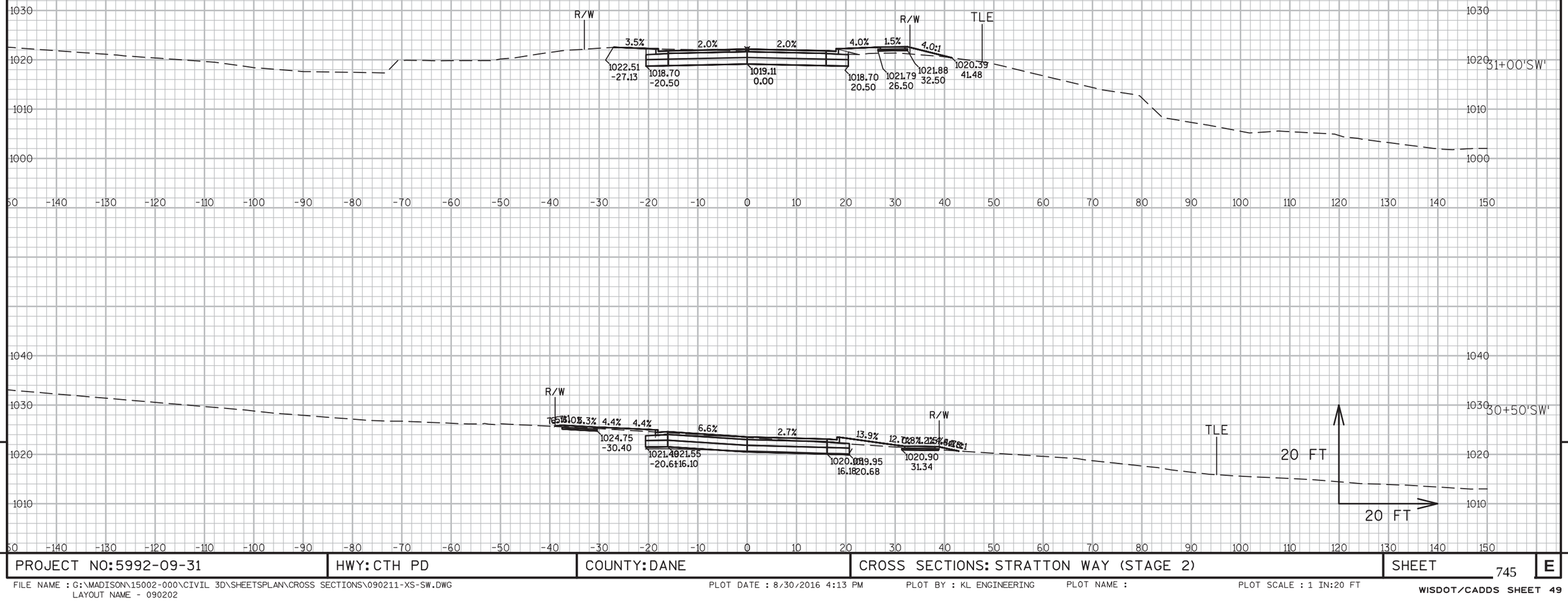
9

9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: SOUTH HIGH POINT ROAD (STAGE 2)	SHEET 744	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090210-XS-HP.DWG
LAYOUT NAME - 090202

PLOT DATE : 8/30/2016 4:12 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

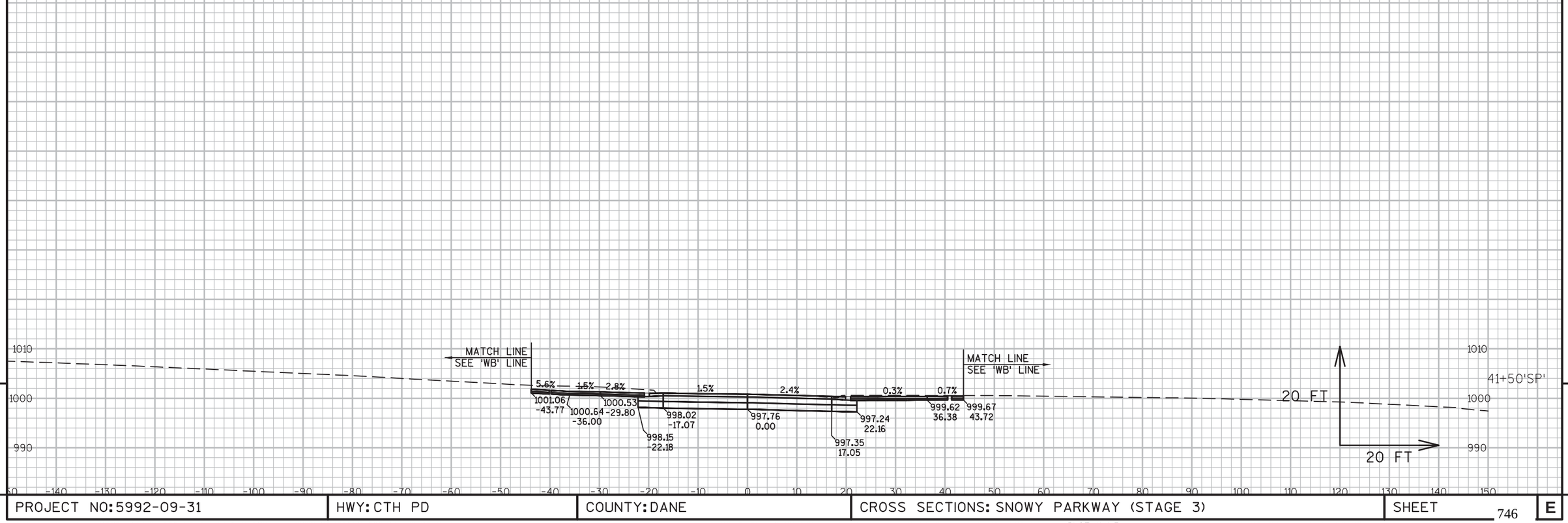
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: STRATTON WAY (STAGE 2)	SHEET 745	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090211-XS-SW.DWG
LAYOUT NAME - 090202

PLOT DATE : 8/30/2016 4:13 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

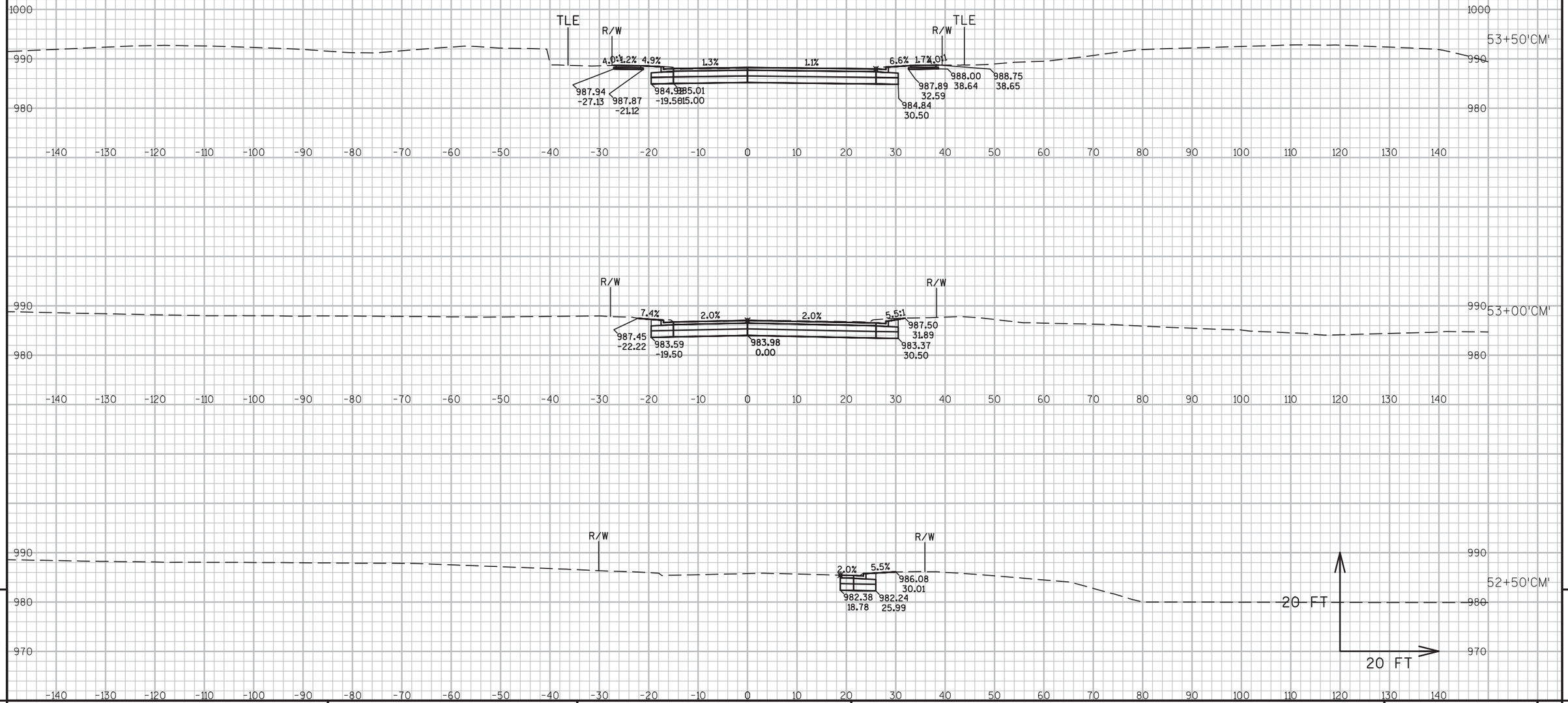
9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: SNOWY PARKWAY (STAGE 3)	SHEET 746	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090212-XS-SP.DWG
LAYOUT NAME - 090201

PLOT DATE : 8/30/2016 4:14 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



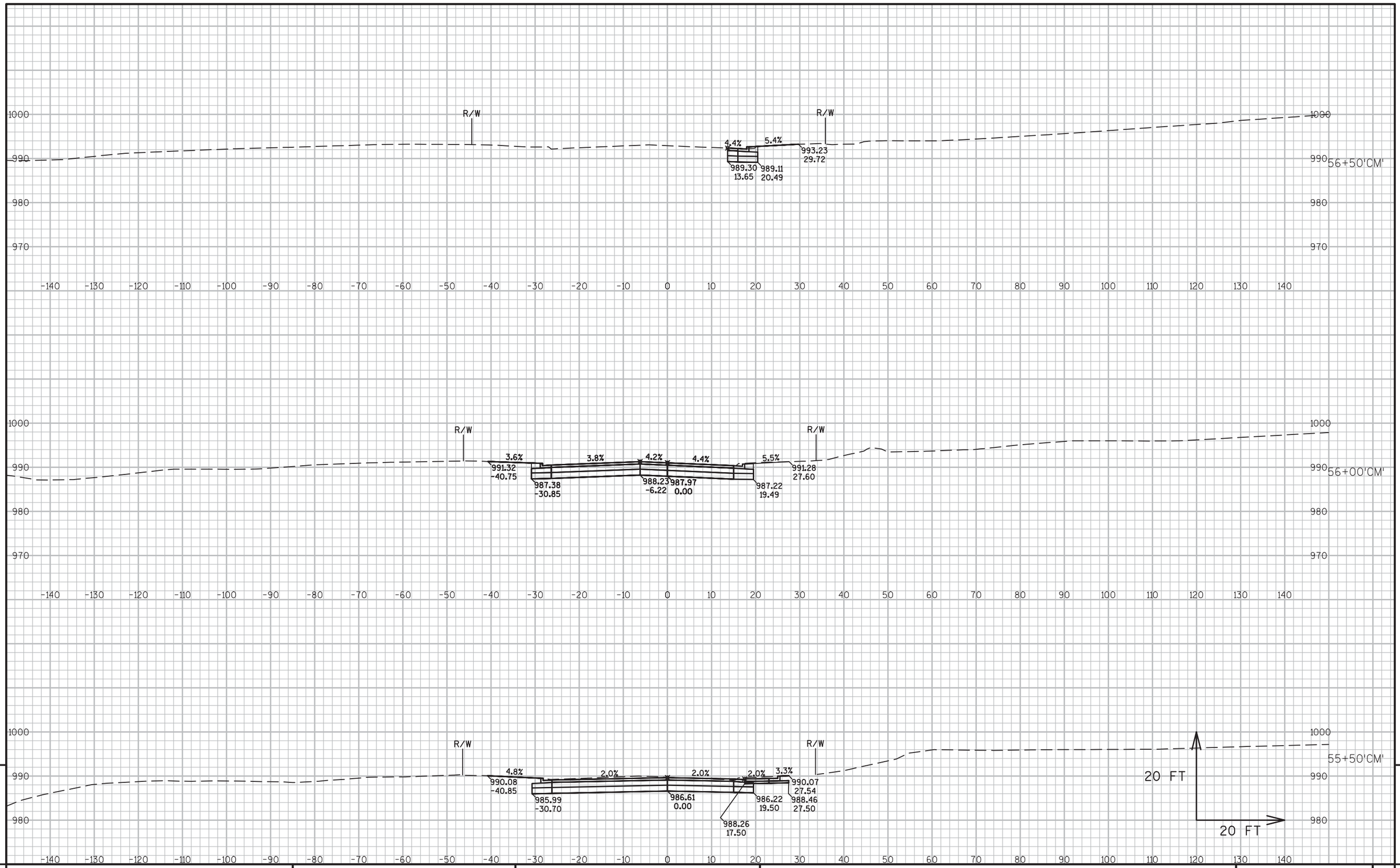
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: MUIR FIELD (STAGE 2)/COUNTRY GROVE (STAGE 3)	SHEET 747	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090213-XS-CM.DWG
LAYOUT NAME - 090201

PLOT DATE : 8/30/2016 4:15 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



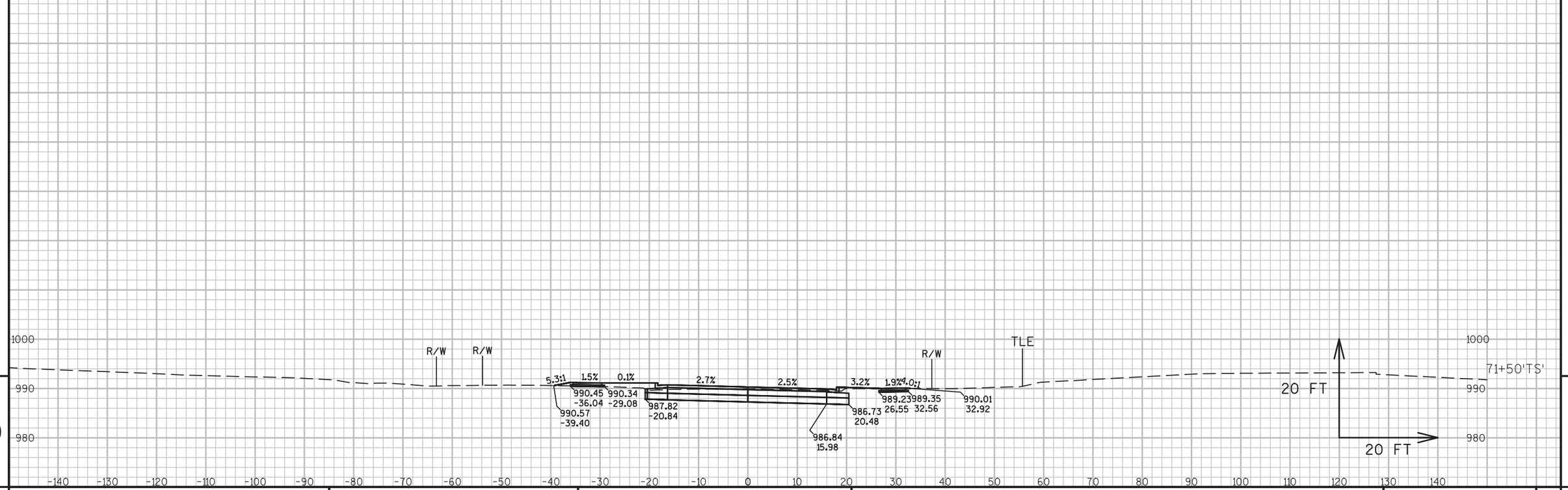
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: MUIR FIELD (STAGE 2)/COUNTRY GROVE (STAGE 3)	SHEET 748	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090213-XS-CM.DWG
LAYOUT NAME - 090202

PLOT DATE : 8/30/2016 4:15 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

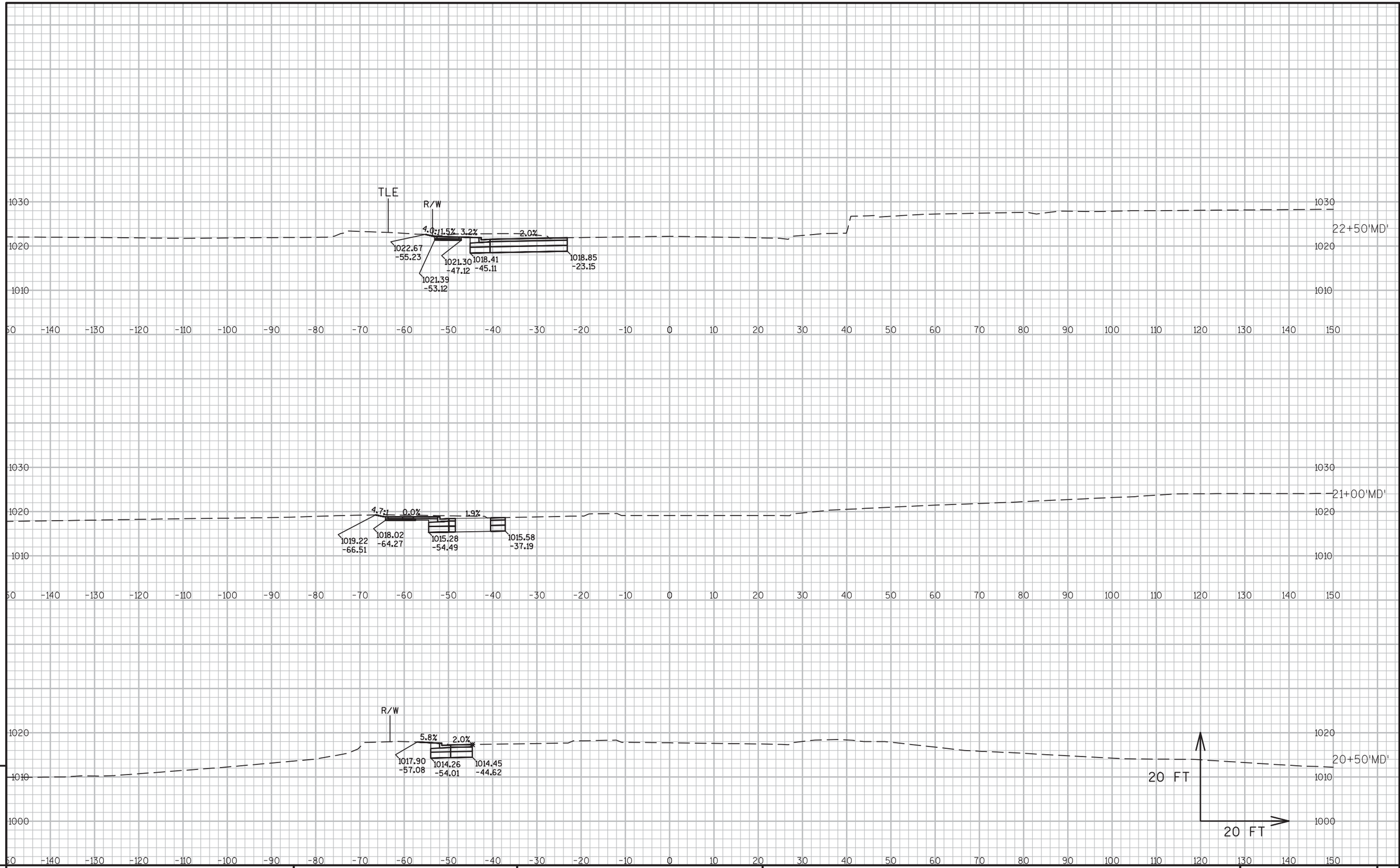


9 9

PROJECT NO:5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: SILVERTON (STAGE 2)/TANGLEWOOD (STAGE 3)	SHEET 749	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090214-XS-TS.DWG
LAYOUT NAME - 090201

PLOT DATE : 8/30/2016 4:16 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



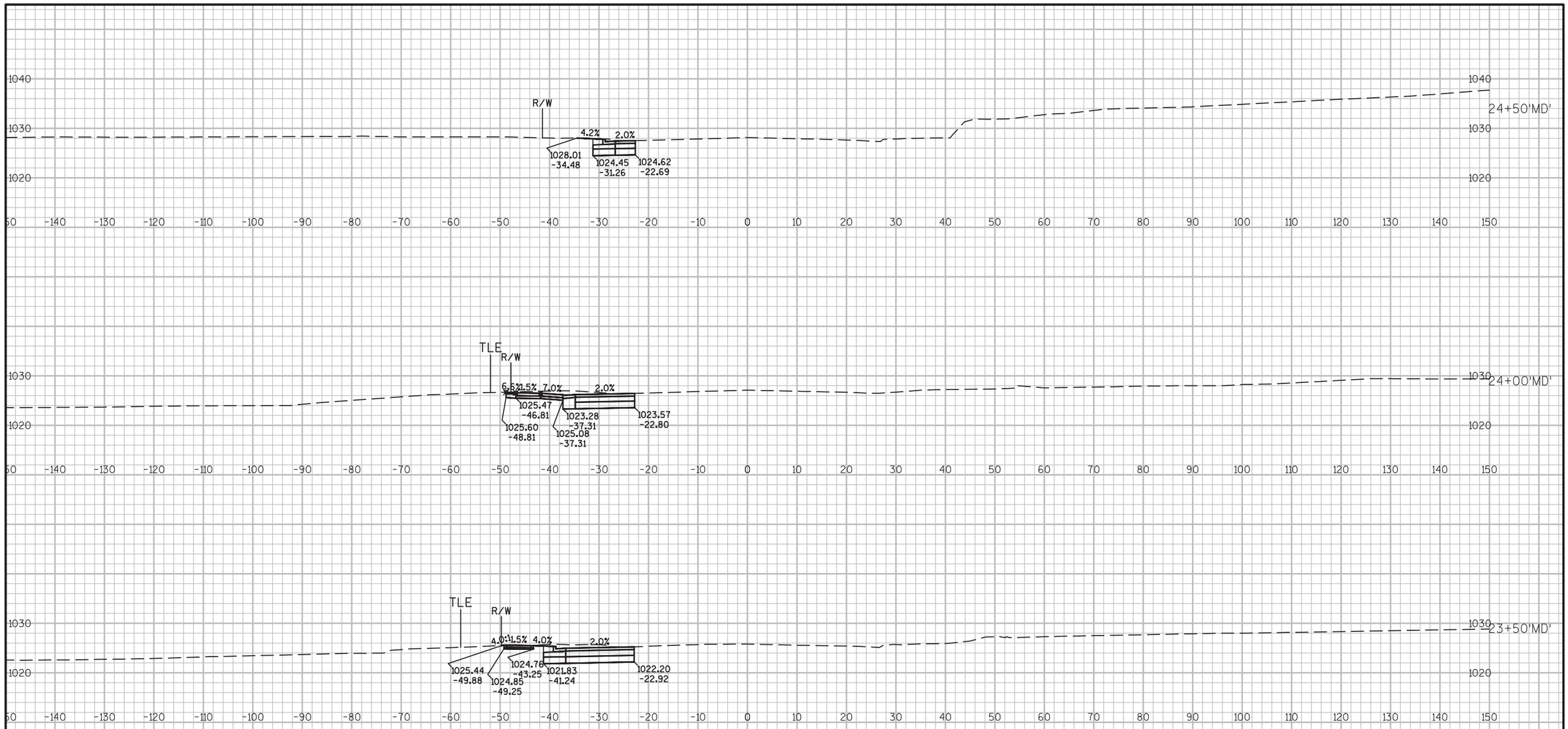
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: MAPLE GROVE DRIVE (STAGE 3)	SHEET 750	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090215-XS-MD.DWG
LAYOUT NAME - 090201

PLOT DATE : 8/30/2016 4:16 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

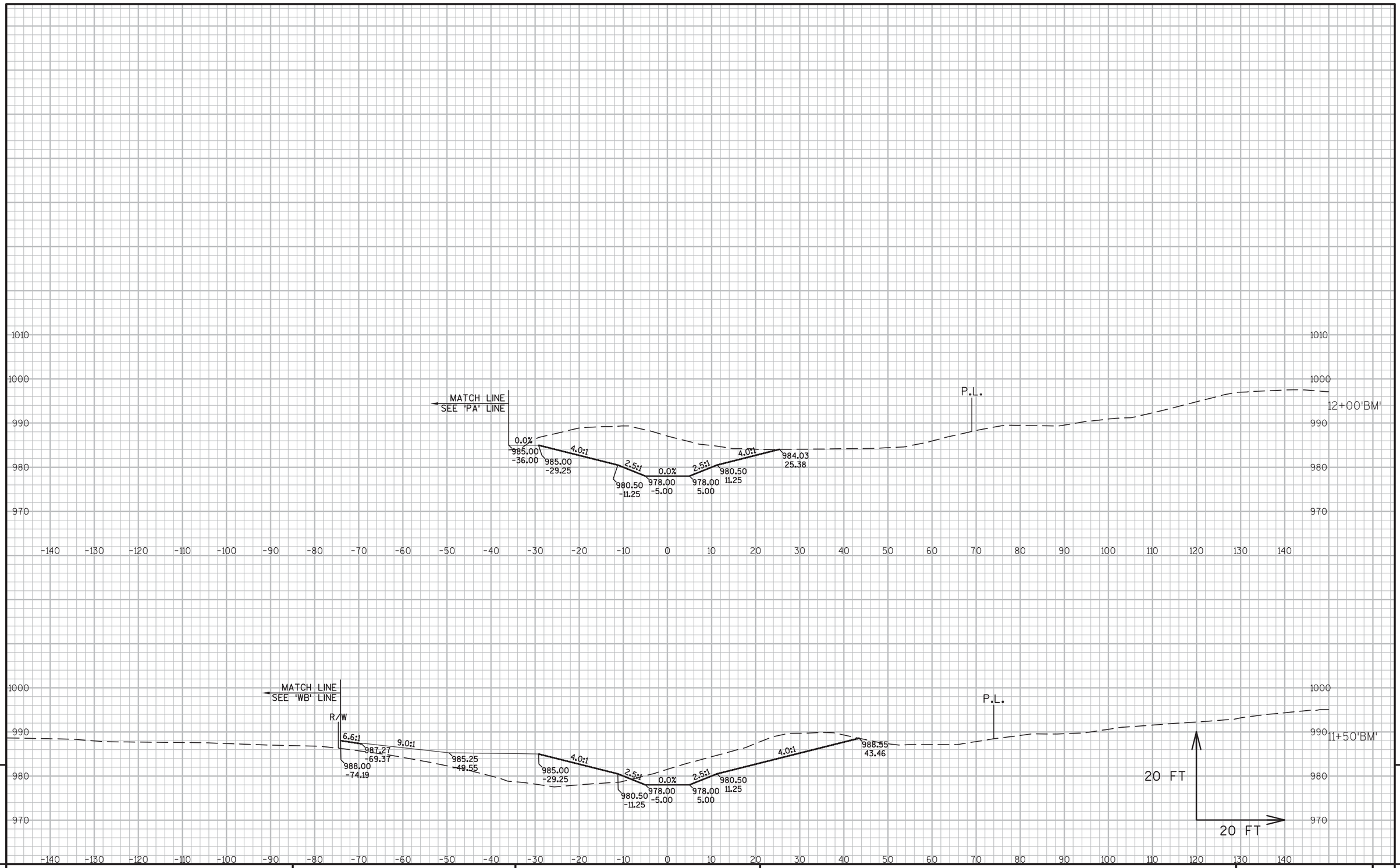
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: MAPLE GROVE DRIVE (STAGE 3)	SHEET 751	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090215-XS-MD.DWG
LAYOUT NAME - 090202

PLOT DATE : 8/30/2016 4:17 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

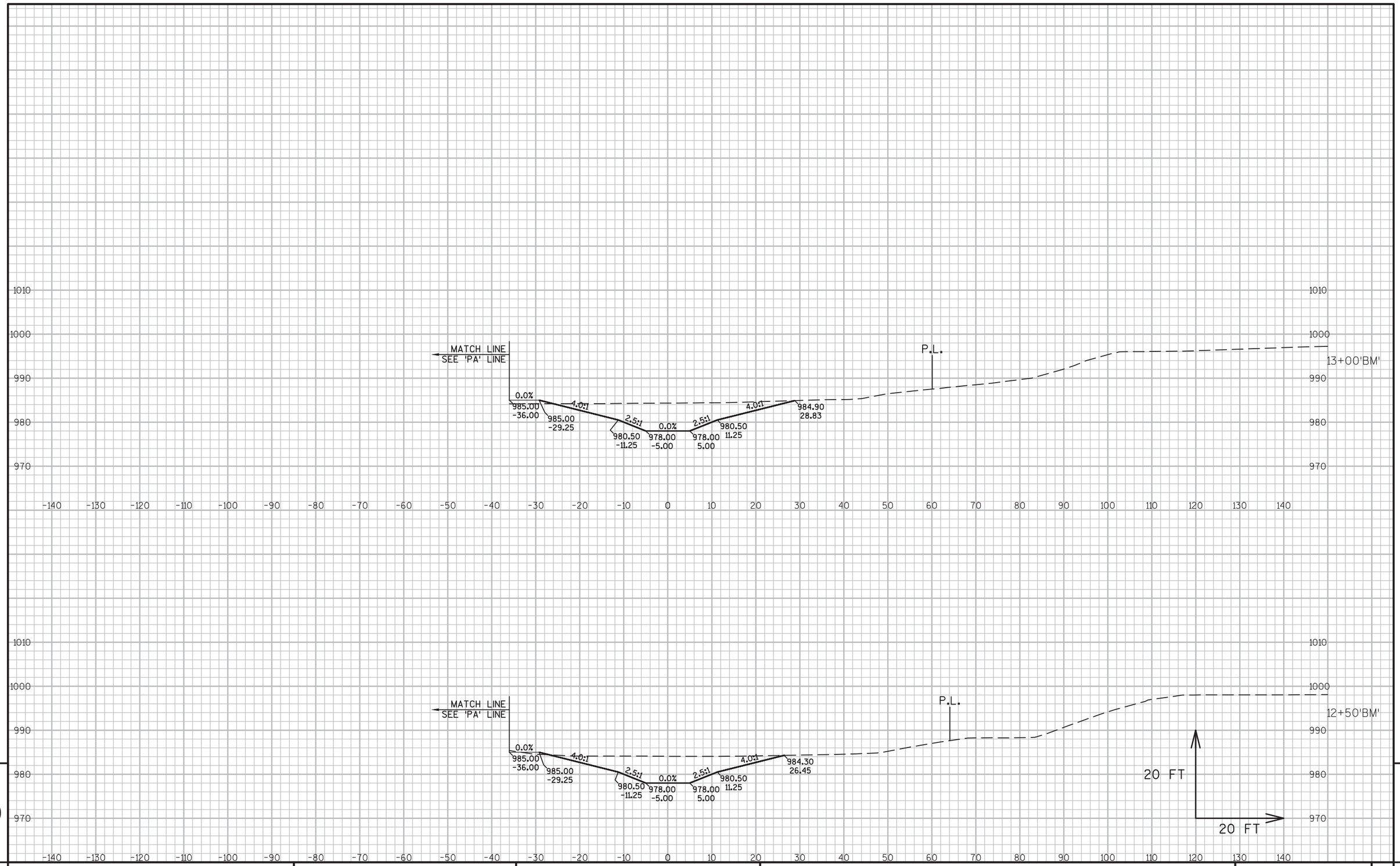
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: BADGER MILL CREEK (STAGE 2)	SHEET 752	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090216-XS-BM.DWG
LAYOUT NAME - SECTION SHEET - (1)

PLOT DATE : 10/18/2016 4:46 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

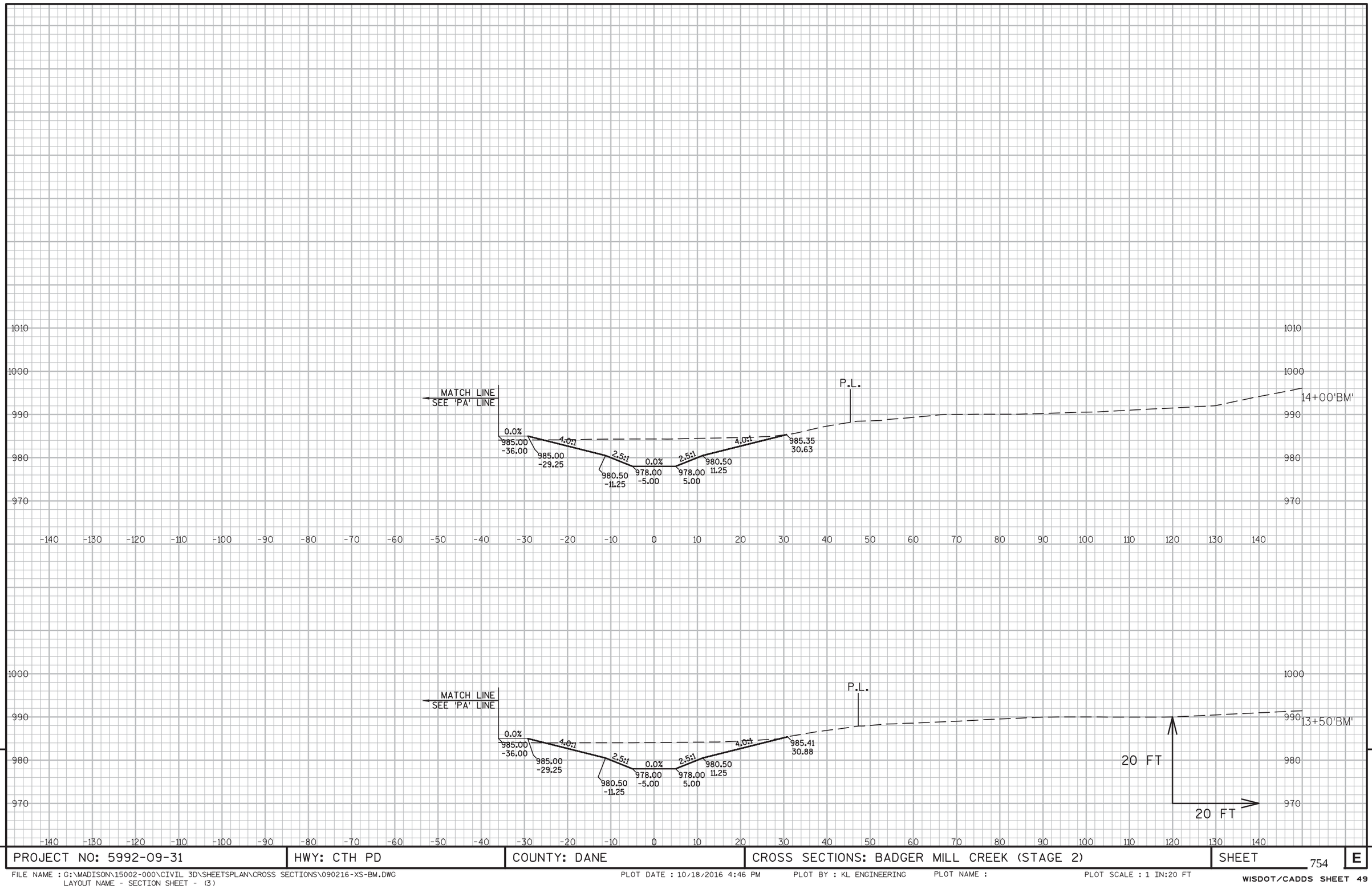
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: BADGER MILL CREEK (STAGE 2)	SHEET 753	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090216-XS-BM.DWG
LAYOUT NAME - SECTION SHEET - (2)

PLOT DATE : 10/18/2016 4:46 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

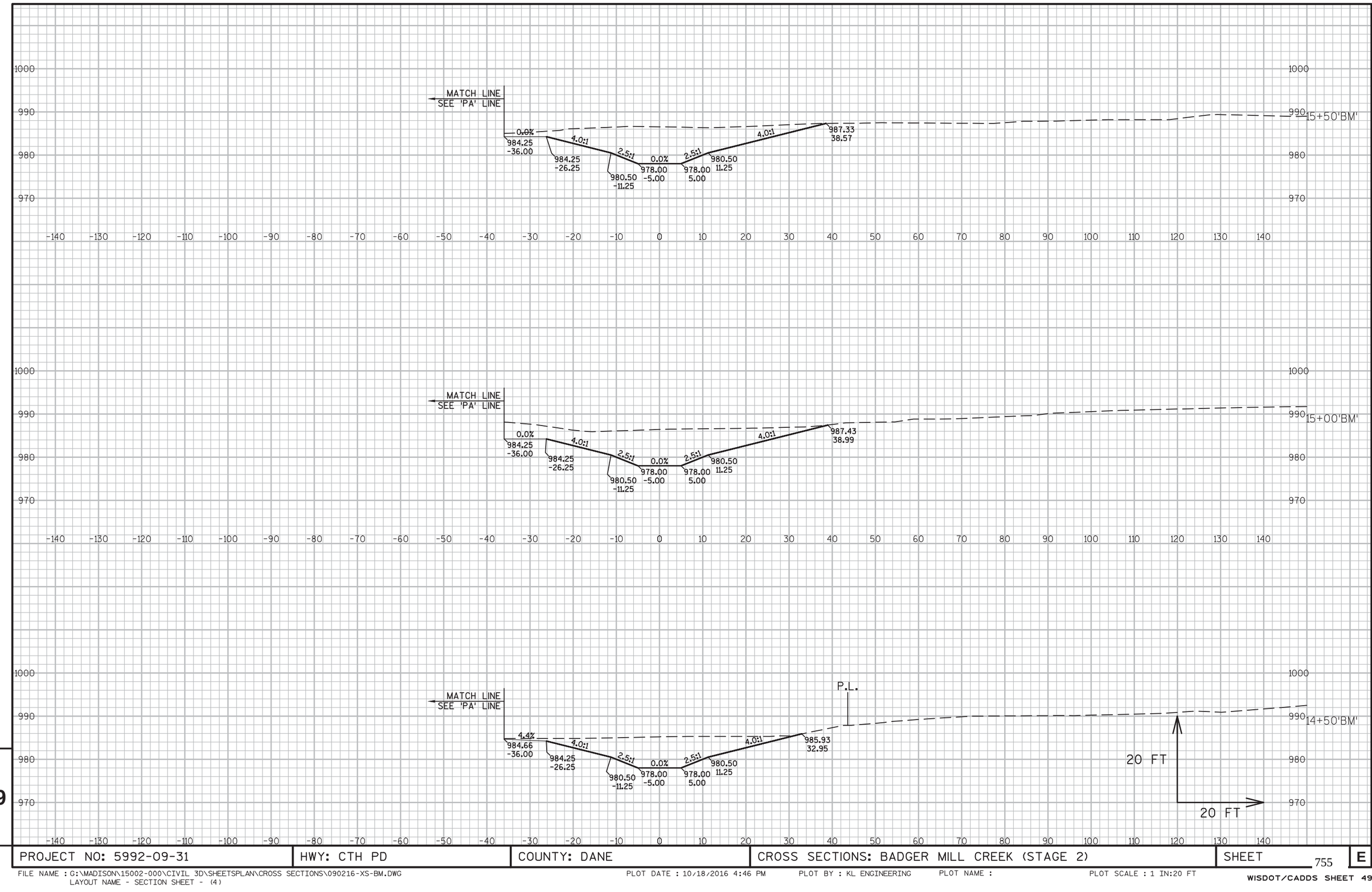
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: BADGER MILL CREEK (STAGE 2)	SHEET 754	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090216-XS-BM.DWG
LAYOUT NAME - SECTION SHEET - (3)

PLOT DATE : 10/18/2016 4:46 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



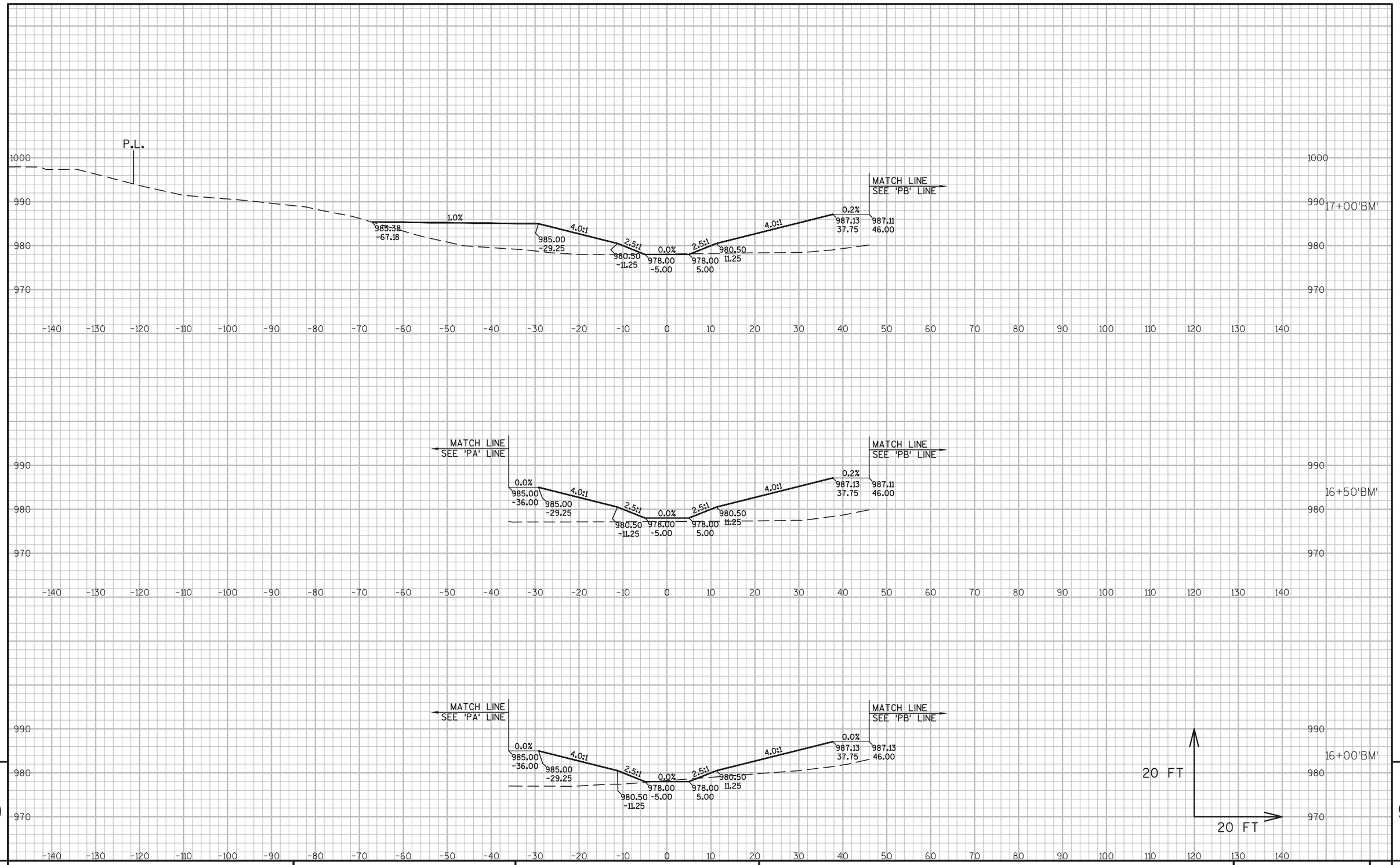
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: BADGER MILL CREEK (STAGE 2)	SHEET 755	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090216-XS-BM.DWG
LAYOUT NAME - SECTION SHEET - (4)

PLOT DATE : 10/18/2016 4:46 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: BADGER MILL CREEK (STAGE 2)	SHEET 756	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090216-XS-BM.DWG
LAYOUT NAME - SECTION SHEET - (5)

PLOT DATE : 10/18/2016 4:46 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

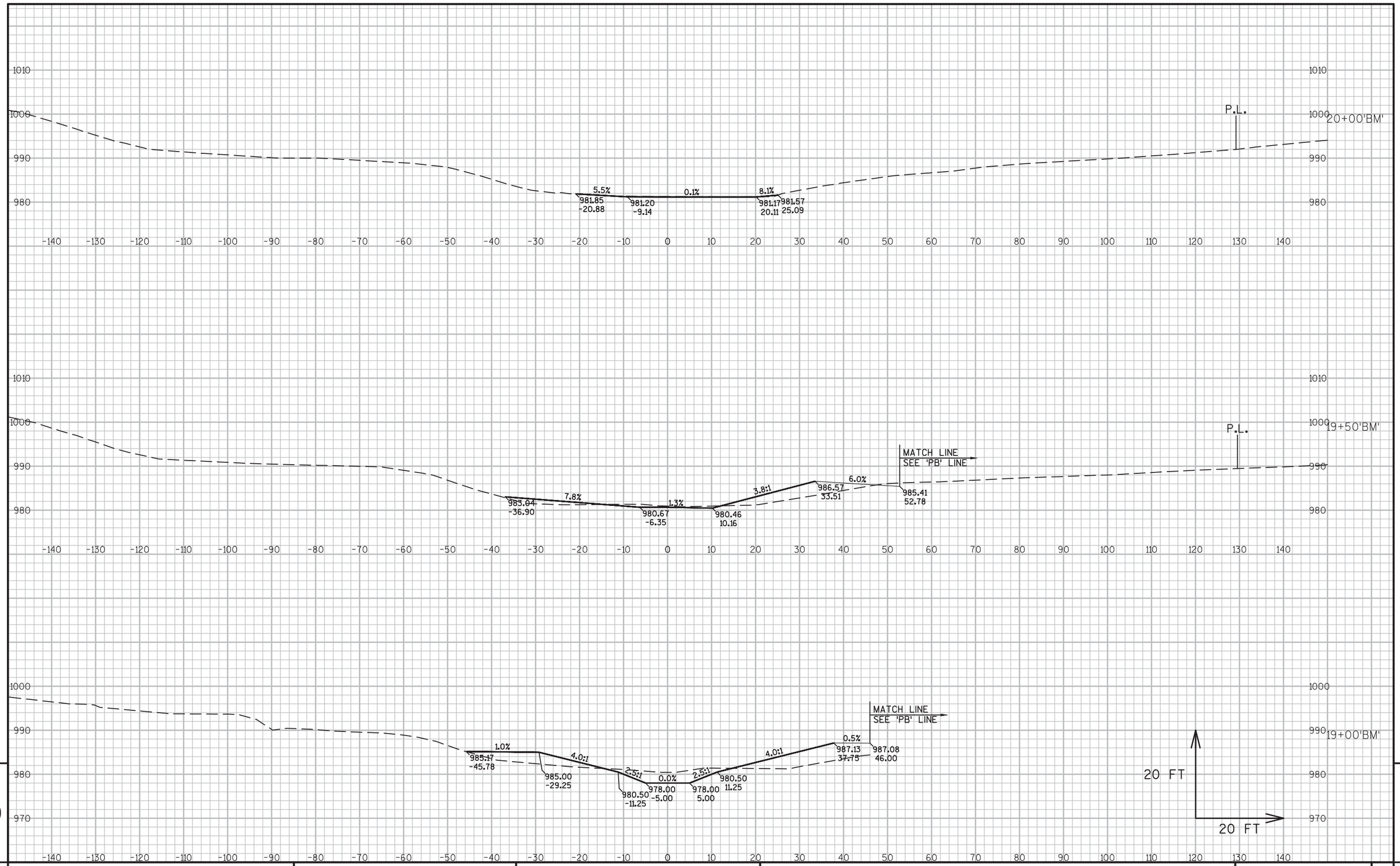
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: BADGER MILL CREEK (STAGE 2)	SHEET 757	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090216-XS-BM.DWG
LAYOUT NAME - SECTION SHEET - (6)

PLOT DATE : 10/18/2016 4:46 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



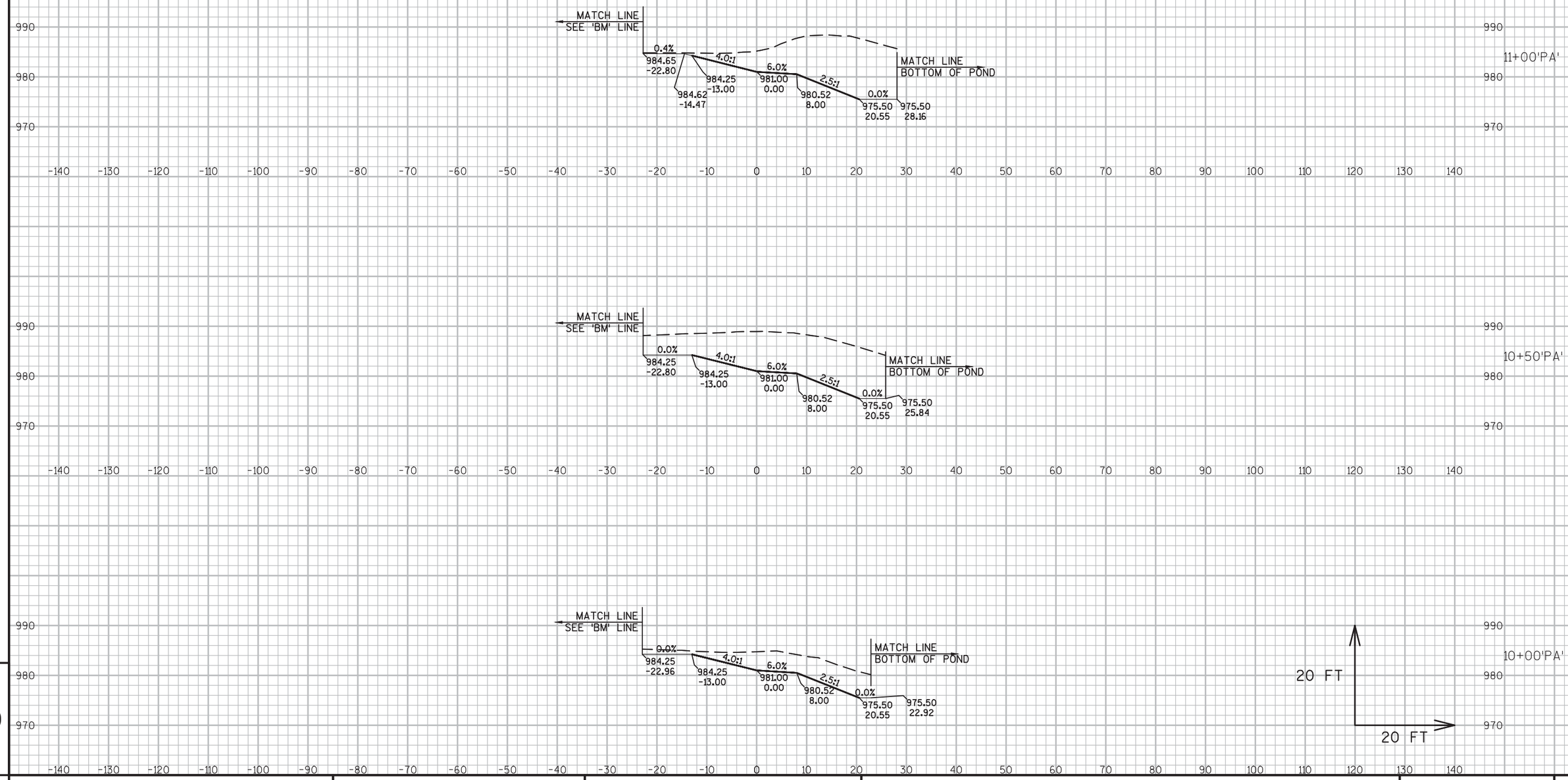
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: BADGER MILL CREEK (STAGE 2)	SHEET 758	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090216-XS-BM.DWG
LAYOUT NAME - SECTION SHEET - (6)

PLOT DATE : 10/18/2016 4:46 PM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

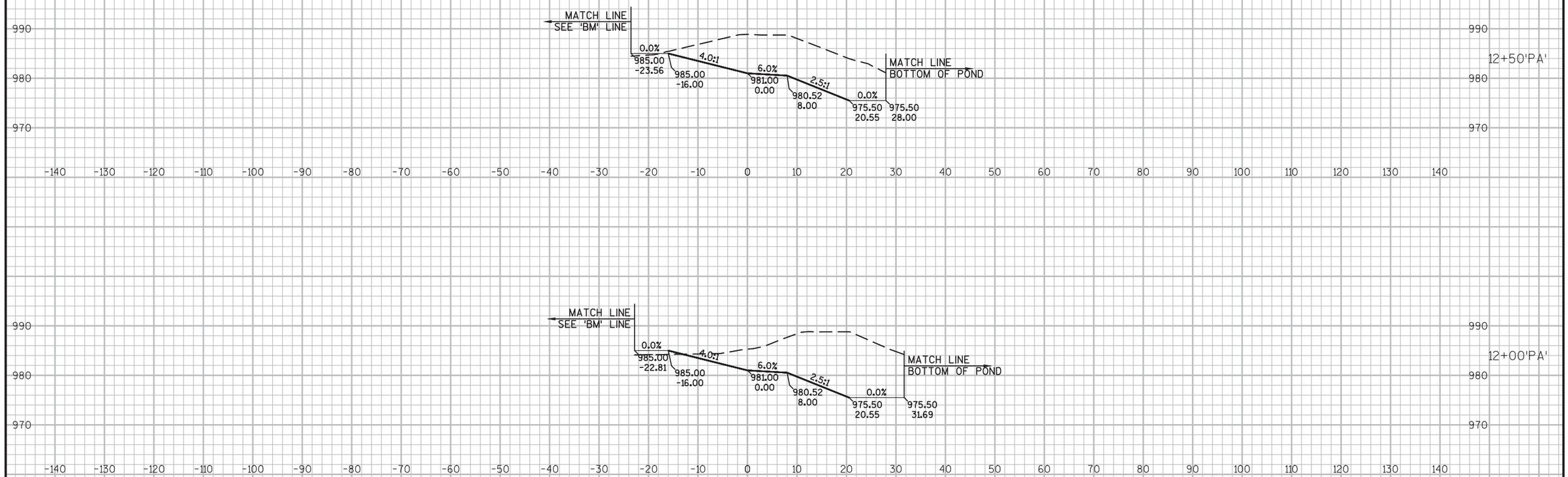


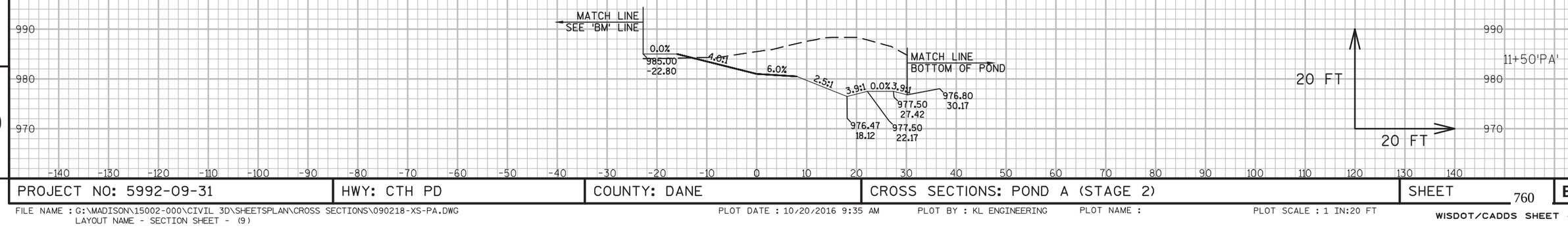
9 9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: POND A (STAGE 2)	SHEET 759	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-PA.DWG
LAYOUT NAME - SECTION SHEET - (8)

PLOT DATE : 10/20/2016 9:34 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT





9

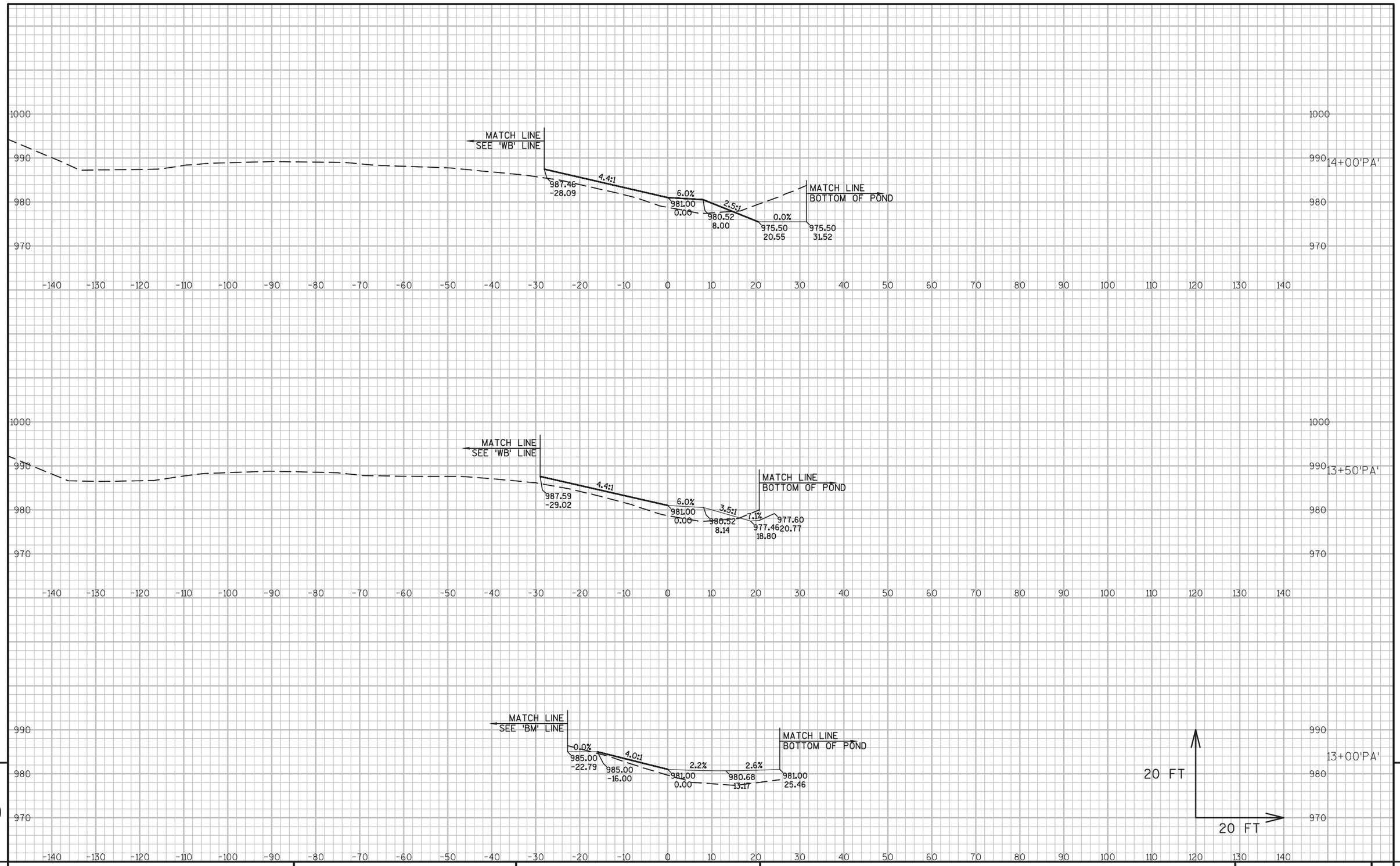
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: POND A (STAGE 2)	SHEET 760	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-PA.DWG
LAYOUT NAME - SECTION SHEET - (9)

PLOT DATE : 10/20/2016 9:35 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



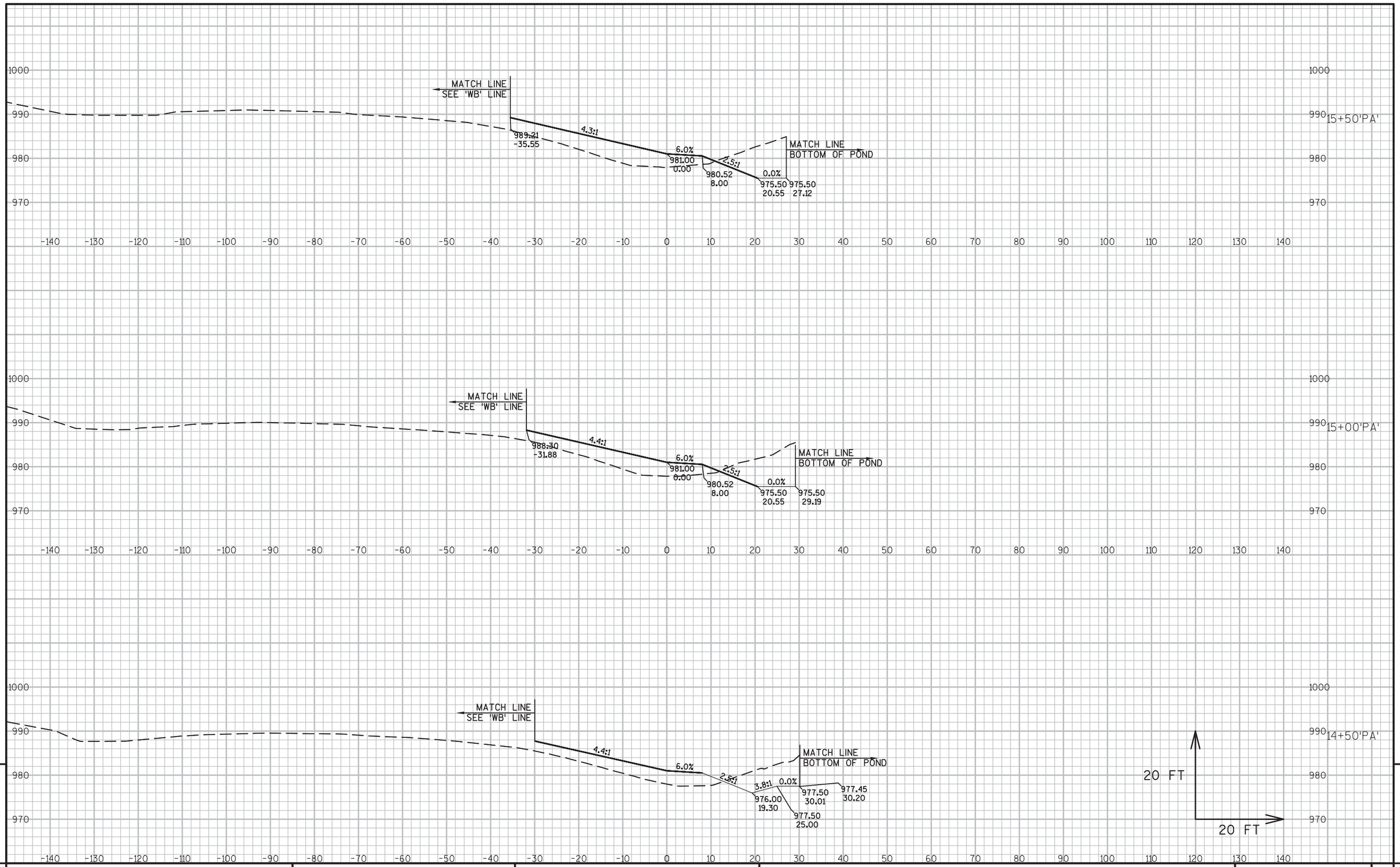
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: POND A (STAGE 2)	SHEET 761	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-PA.DWG
LAYOUT NAME - SECTION SHEET - (10)

PLOT DATE : 10/20/2016 9:35 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



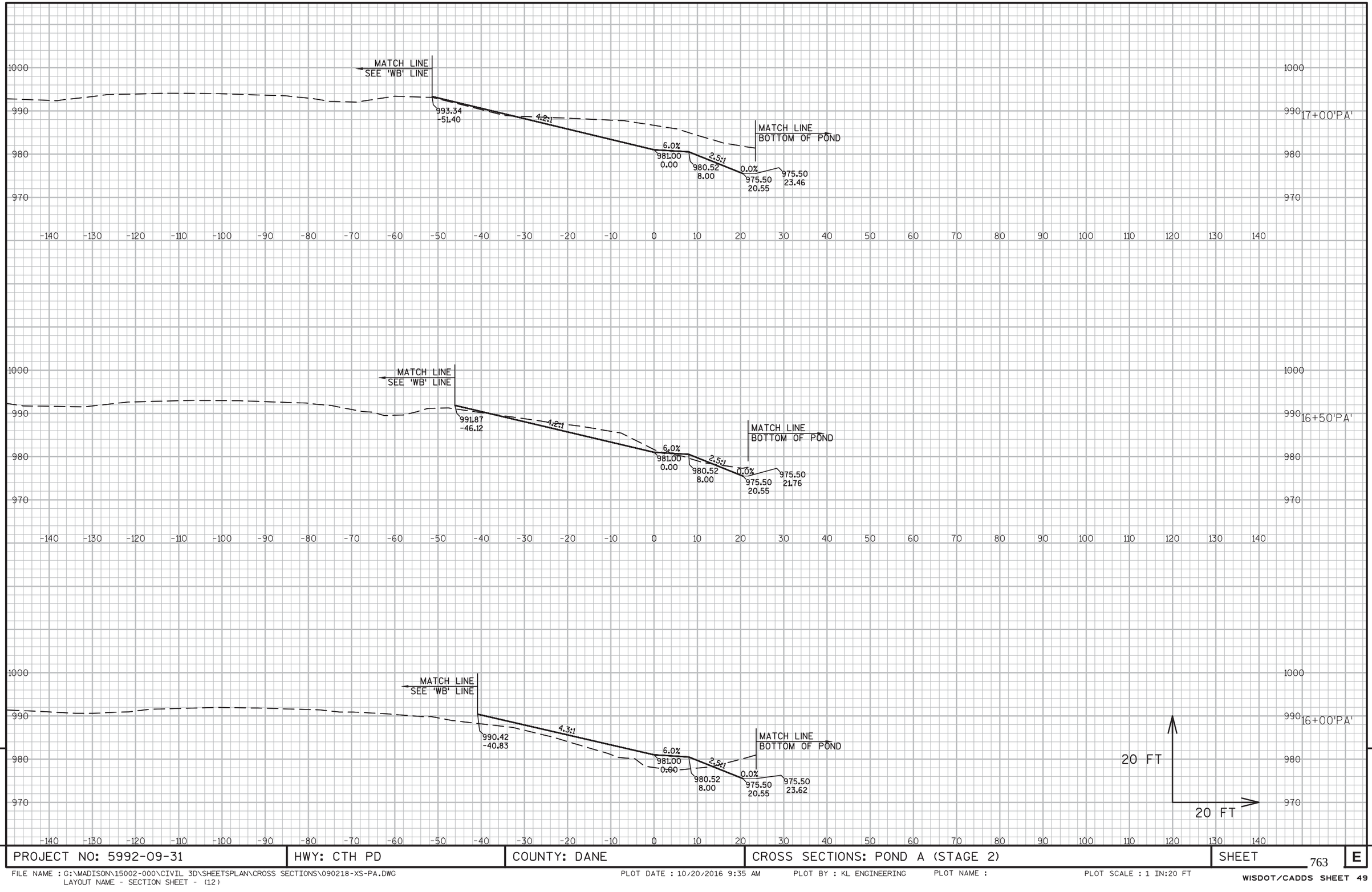
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: POND A (STAGE 2)	SHEET 762	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-PA.DWG
LAYOUT NAME - SECTION SHEET - (11)

PLOT DATE : 10/20/2016 9:35 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

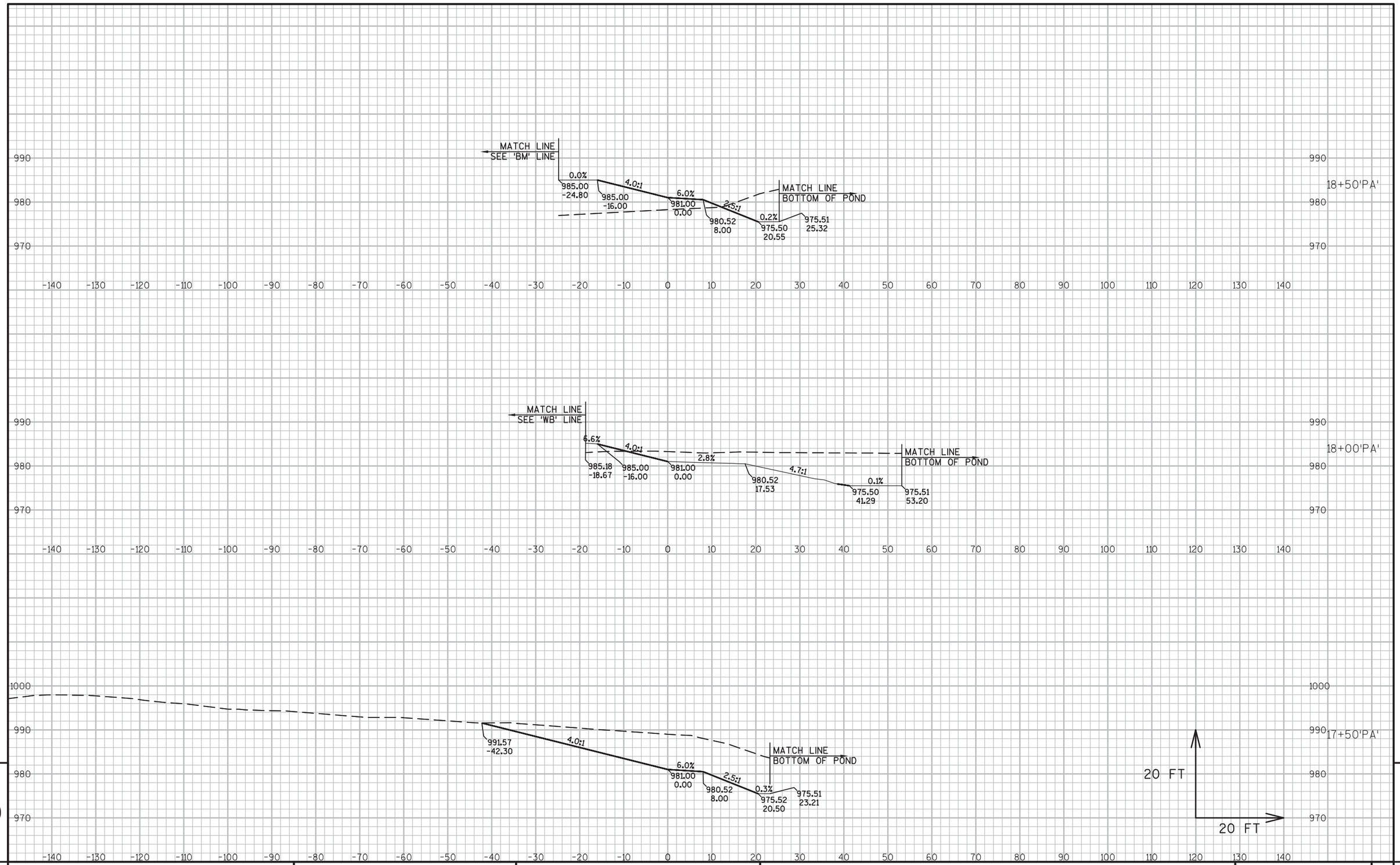
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: POND A (STAGE 2)	SHEET 763	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-PA.DWG
LAYOUT NAME - SECTION SHEET - (12)

PLOT DATE : 10/20/2016 9:35 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



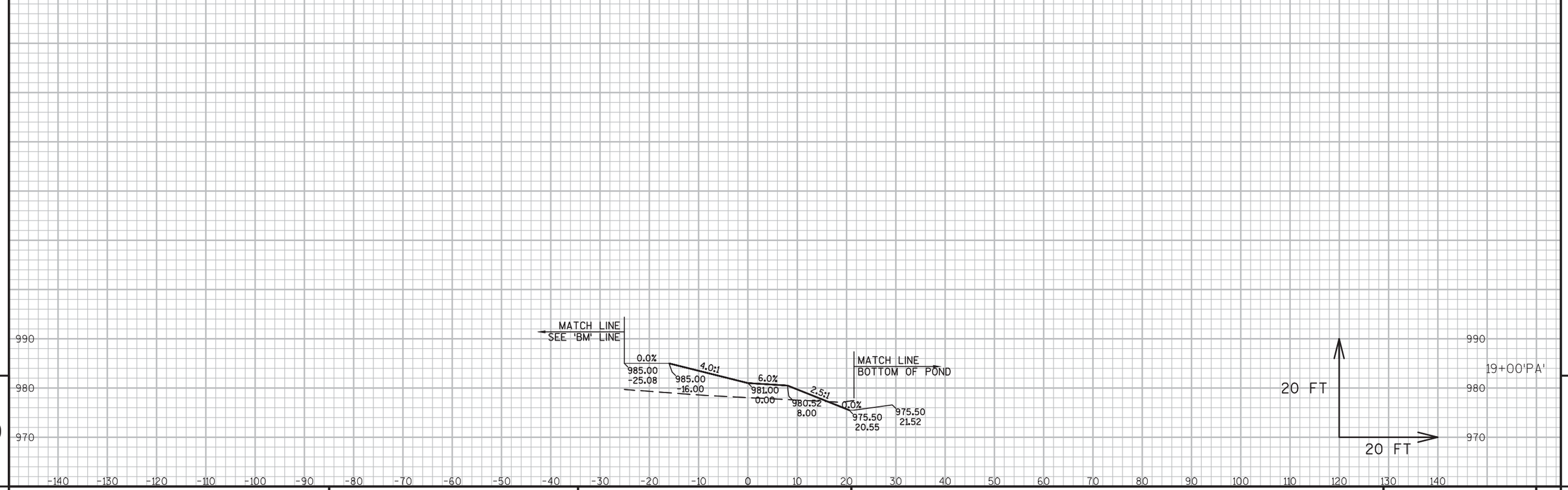
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: POND A (STAGE 2)	SHEET 764	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-PA.DWG
LAYOUT NAME - SECTION SHEET - (13)

PLOT DATE : 10/20/2016 9:35 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

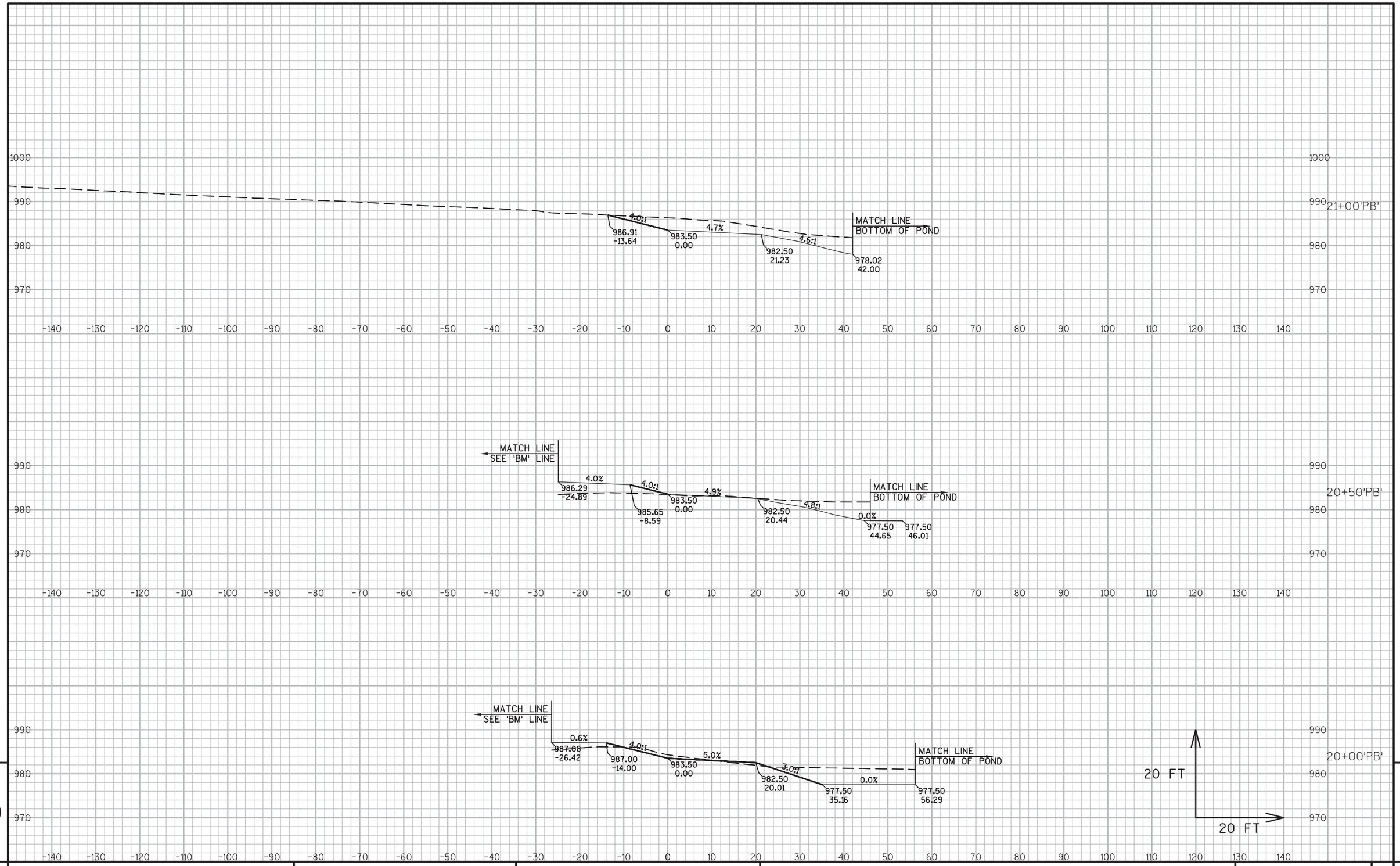
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: POND A (STAGE 2)	SHEET 765	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090218-XS-PA.DWG
LAYOUT NAME - SECTION SHEET - (14)

PLOT DATE : 10/20/2016 9:35 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



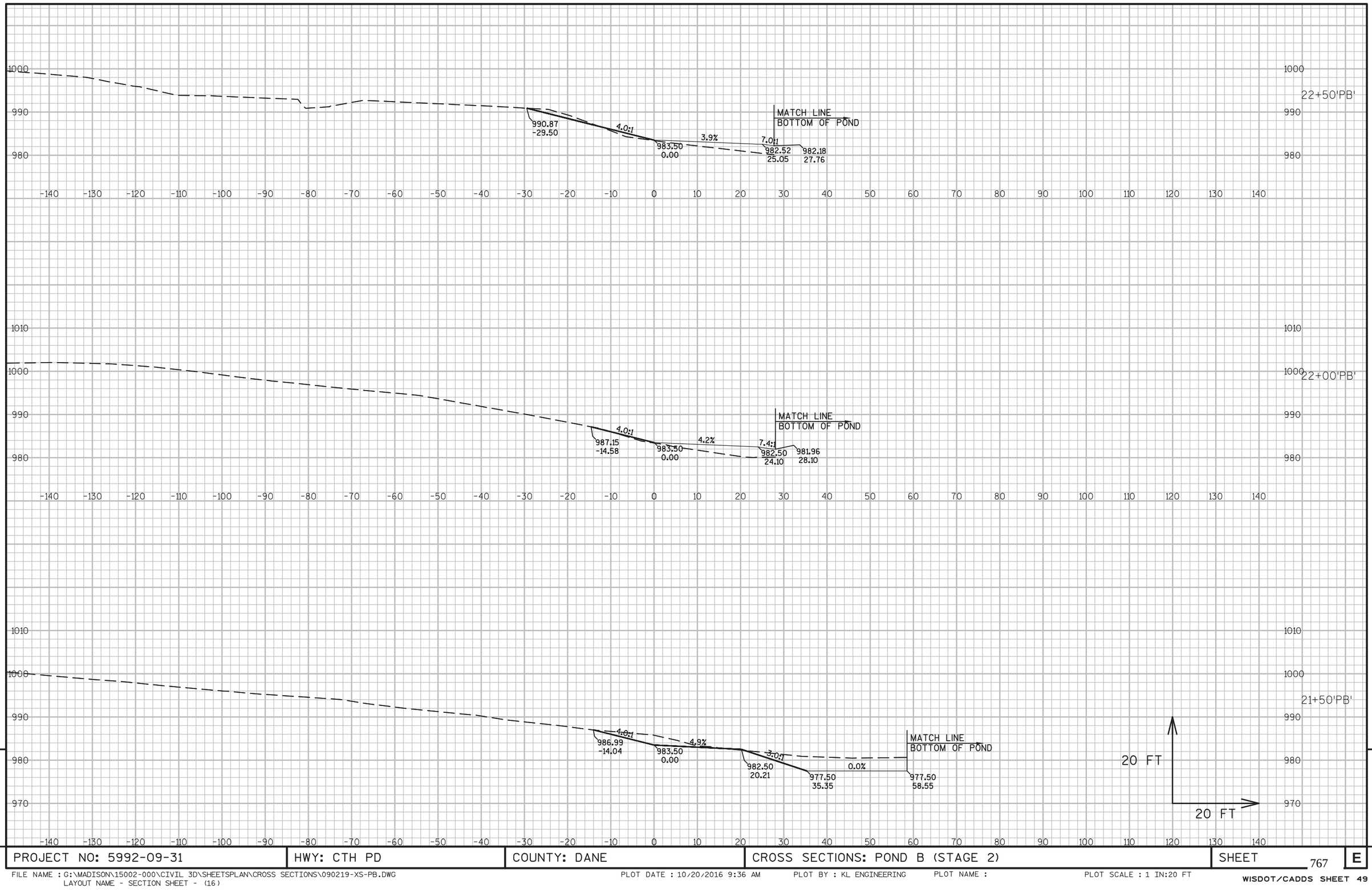
9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: POND B (STAGE 2)	SHEET 766	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090219-XS-PB.DWG
LAYOUT NAME - SECTION SHEET - (15)

PLOT DATE : 10/20/2016 9:36 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

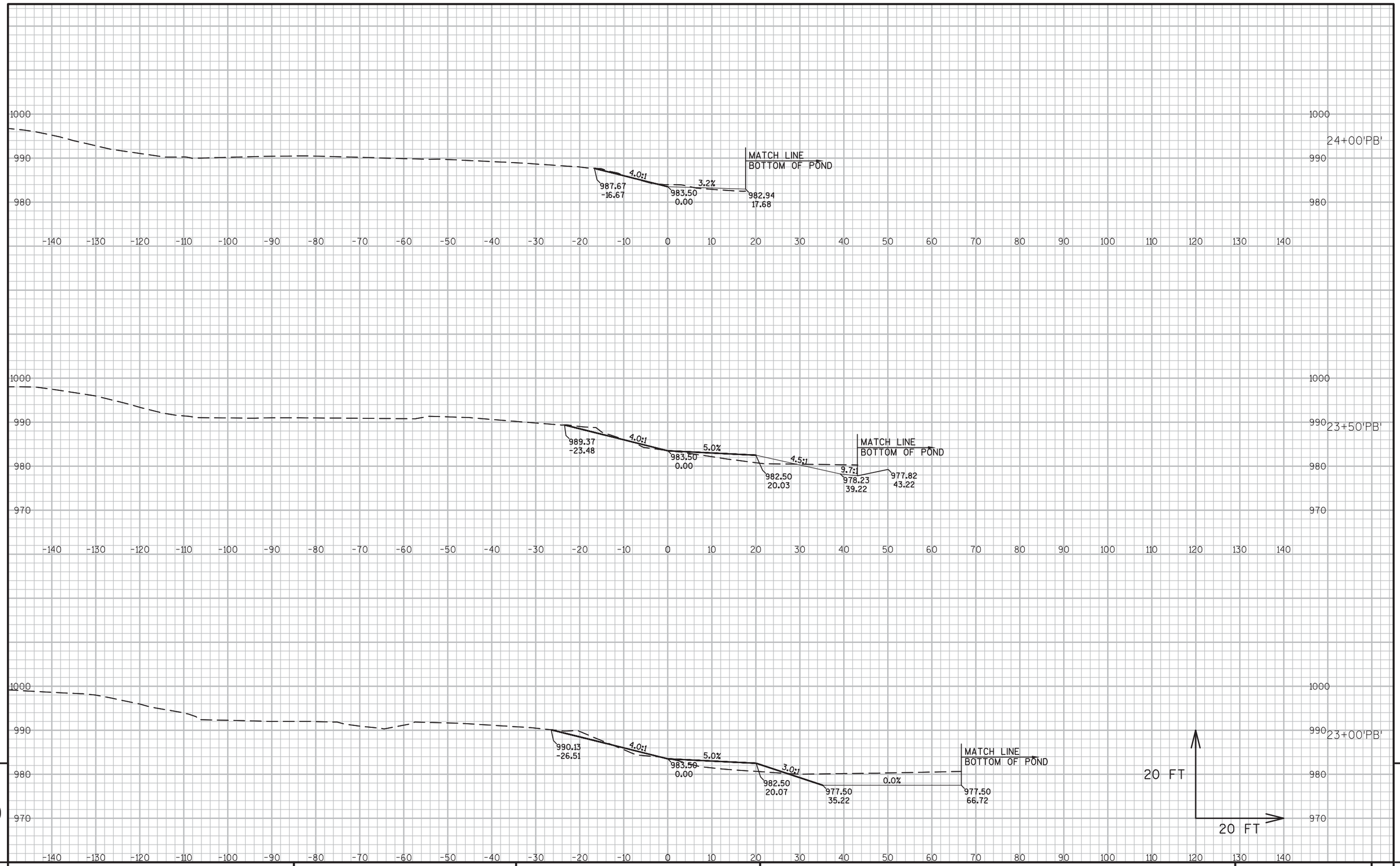


PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: POND B (STAGE 2)	SHEET 767	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090219-XS-PB.DWG
LAYOUT NAME - SECTION SHEET - (16)

PLOT DATE : 10/20/2016 9:36 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

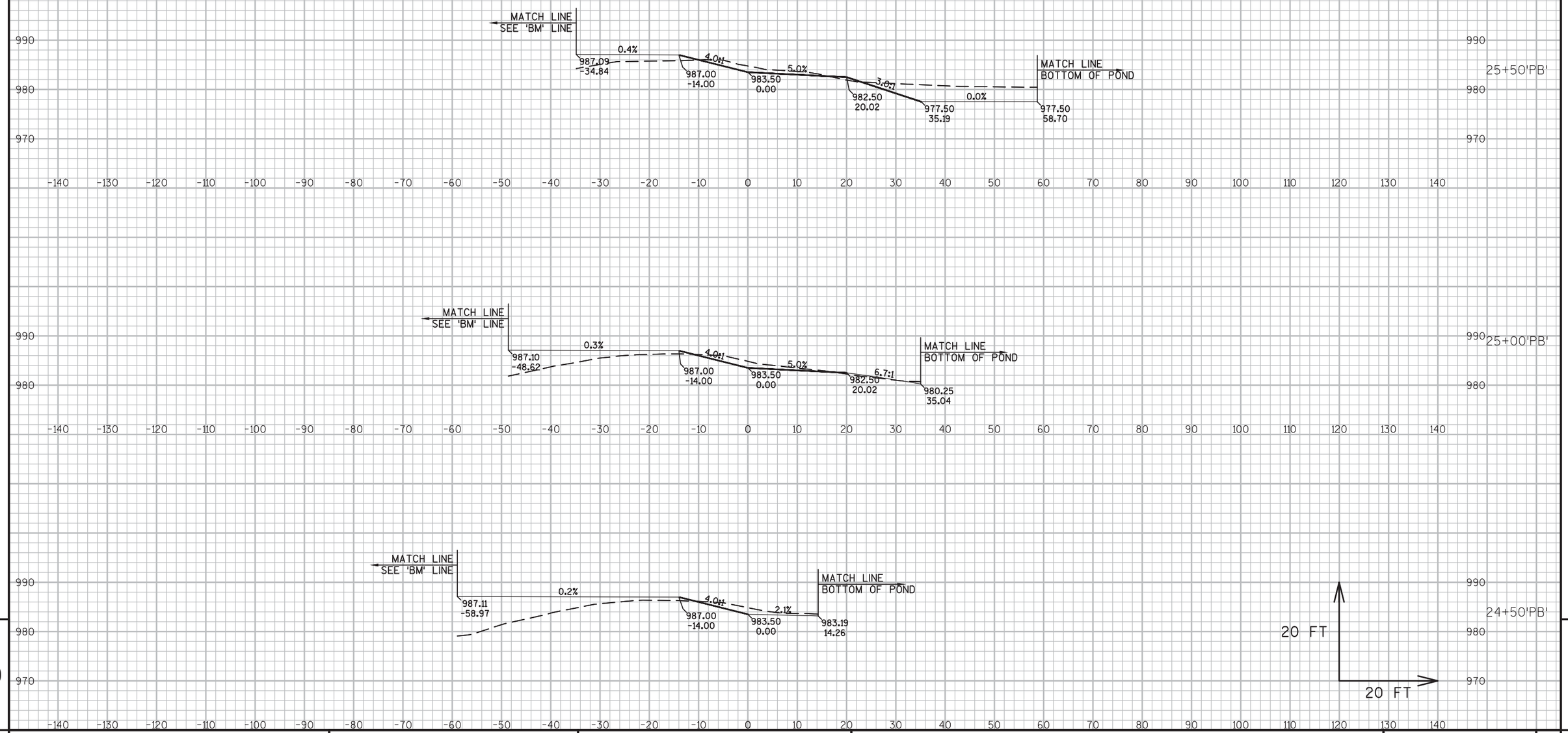
9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: POND B (STAGE 2)	SHEET 768	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090219-XS-PB.DWG
LAYOUT NAME - SECTION SHEET - (17)

PLOT DATE : 10/20/2016 9:36 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5992-09-31	HWY: CTH PD	COUNTY: DANE	CROSS SECTIONS: POND B (STAGE 2)	SHEET 769	E

FILE NAME : G:\MADISON\15002-000\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090219-XS-PB.DWG
LAYOUT NAME - SECTION SHEET - (18)

PLOT DATE : 10/20/2016 9:37 AM PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE : 1 IN:20 FT

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov