WKE

JUNE 2018

PROJECT ID: 2704-09-70

WITH: N/A

COUNTY: RACINE

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
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 = 688

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2704-09-70		

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

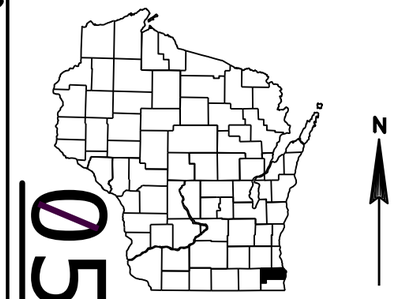
BRAUN ROAD

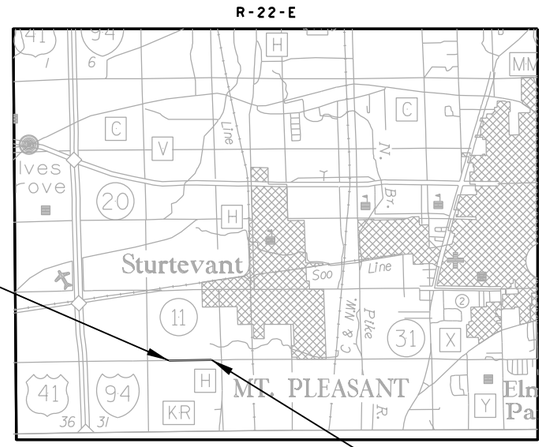
IH94 EFR TO CTH H

LOCAL STREET
RACINE COUNTY

STATE PROJECT NUMBER

2704-09-70





BEGIN PROJECT
STA 71BRE+30.20
X = 596254.0529
Y = 170321.1170

END PROJECT
STA 149BRE+84.06
X = 604107.0997
Y = 170221.4447

STRUCTURES
B-51-160

DESIGN DESIGNATION

A.A.D.T. 2018	=	625
A.A.D.T. 2038	=	3216
D.H.V. 2038	=	312
D.D.	=	58/42
T.	=	5.1%
DESIGN SPEED	=	40 mph
ESALS	=	X,XXX,XXX

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)
- 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

LAYOUT
SCALE 0 1.0 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.487 MI.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF NAVD88 (1991).

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE REFERENCE SYSTEM (WisCRS). RACINE COUNTY, NAD83 (1997).

HNTB
11414 W. PARK PLACE
SUITE 300
MILWAUKEE, WI 53224
(414) 359-2300

WISCONSIN
MATTHEW D. CANADA
E-43000-6
MADISON, WI
PROFESSIONAL ENGINEER

03/30/2018 (Date)

(Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	KAPUR
Designer	HNTB
Project Manager	STEVE HOFF
Regional Examiner	WISDOT SE REGION
Regional Supervisor	MANOJOY NAG
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 03/30/2018 (Signature)

E

UTILITY CONTACTS

AT&T WISCONSIN
MARK EDER
2005 PEWAUKEE ROAD
WAUKESHA, WI 53188
PHONE: (262) 896-7434
ME1754@ATT.COM

CHARTER COMMUNICATIONS
STEVE CRAMER
1320 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 277-4045
CELL: (414) 688-2385
STEVE.CRAMER@CHARTER.COM
WIS.ENGINEERING@CHARTER.COM

MIDWEST FIBER NETWORKS
CORY SCHMUKI
6070 N. FLINT ROAD
GLENDALE, WI 53209
PHONE: (414) 672-5612
CELL: (414) 349-2764
CSCHMUKI@MIDWESTFIBERNETWORKS.COM

MOUNT PLEASANT SEWER UTILITY DISTRICT NO. 1
ANTHONY BEYER
8811 CAMPUS DR.
MOUNT PLEASANT, WI 53406
PHONE: (262) 664-7849
TBEYER@MTPLEASANTWI.GOV

MOUNT PLEASANT - LIGHTING/SIGNALS
MARK BENISH
8700 CAMPUS DRIVE
MOUNT PLEASANT, WI 53406
PHONE: (262) 664-7844
MBENISH@MTPLEASANTWI.GOV

RACINE WATER WORKS COMMISSION
CHAD REGALIA
800 CENTER STREET, ROOM 227
RACINE, WI 53403
PHONE: (262) 497-4611
CHAD.REGALIA@CITYOFRACINE.ORG

WE ENERGIES - ELECTRIC
SEND ALL CORRESPONDENCE TO:
NICOLE SMULLEN
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: 414-221-5617
CELL: 414-460-7190
NICOLE.SMULLEN@WE-ENERGIES.COM

CONSTRUCTION FIELD CONTACT:
ANDY DOERFLINGER
500 S. 116TH STREET
WEST ALLIS, WI 53214
OFFICE: (414) 944-5758
CELL: (262) 939-5601
ANDY.DOERFLINGER@WE-ENERGIES.COM

WE ENERGIES - GAS
SEND ALL CORRESPONDENCE TO:
NICOLE SMULLEN
333 W. EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: 414-221-5617
CELL: 414-460-7190
NICOLE.SMULLEN@WE-ENERGIES.COM

WISDOT - COMMUNICATIONS
JEFF MADSON
433 W. ST. PAUL AVE.
SUITE 300
MILWUAKEE, WI 53203
PHONE: (414) 225-3723
JEFFREY.MADSON@DOT.WI.GOV

DESIGN CONTACTS
TJ DOUGHERTY
HNTB CORPORATION
11414 W. PARK PLACE, SUITE 300
MILWAUKEE, WI 53224
(414) 410-6783

OTHER AGENCIES

CANADIAN PACIFIC PLAZA
120 SOUTH 6TH ST, SUITE 700
MINNEAPOLIS, MN 55402
PHONE: (612) 330-4555

MOUNT PLEASANT, VILLAGE OF
MARK BENISH
8700 CAMPUS DRIVE
MOUNT PLEASANT, WI 53406
PHONE: (262) 664-7844
MBENISH@MTPLEASANTWI.GOV

RACINE COUNTY - DPW
NATHAN PLUNKETT
14200 WASHINGTON AVENUE
STURTEVANT, WI 53177
PHONE: (262) 886-8442
NATHAN.PLUNKETT@RACINECOUNTY.COM

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
ROB MERRY
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE: (262) 953-4289
CELL: (920) 912-1036
RMERRY@SEWRPC.ORG

STURTEVANT, VILLAGE OF
MARY COLE
2801 89TH STREET
STURTEVANT, WI 53177
PHONE: (262) 886-7201
VILLAGEADMIN@STURTEVANT-WI.GOV

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

STATE AGENCIES

WISCONSIN DEPARTMENT OF TRANSPORTATION
LACI KAZAN - ENVIRONMENTAL ANALYST AND REVIEW SPECIALIST
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 322-1429
LACI.KAZAN@DOT.WI.GOV

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
KRISTINA BETZOLD
DNR SERVICE CENTER
2300 N. MARTIN LUTHER KING JR.
MILWAUKEE WI 53212
PHONE: (414) 507-4946
KRISTINA.BETZOLD@WISCONSIN.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION
GREG BERRY – UTILITY COORDINATOR
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 750-7828
GREGORY.BERRY@DOT.WI.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION
STEVE HOFF, PROJECT MANAGER
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
(262) 548-6718
STEVE.HOFF@DOT.WI.GOV

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLAN
CURB RAMP DETAILS
PLAN DETAILS
PAVING GRADES
DISTURBED WETLAND PLAN
EROSION CONTROL
STORM SEWER
POND DETAILS
IRRIGATION PLAN
PLANTING PLAN
SIGNING REMOVAL PLAN
PERMANENT SIGNING PLAN
LIGHTING PLAN
TRAFFIC SIGNAL PLAN
COMMUNICATION PLAN
PAVEMENT MARKING PLAN
TRAFFIC CONTROL / STAGE CONSTRUCTION
DETOUR PLAN
ALIGNMENT PLAN
CONTROL AND BENCHMARKS

2

GENERAL NOTES

THE CONTRACTOR SHALL CONTACT THE UTILITIES AND DIGGERS HOTLINE TO LOCATE AND FIELD VERIFY UTILITIES PRIOR TO THE START OF WORK.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE.

THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. ANY LOCAL, MUNICIPAL OR OTHER UTILITY THAT IS NOT A MEMBER OF DIGGERS HOTLINE SHALL BE CONTACTED SEPERATELY.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII DIMENSIONS ARE MEASURED TO THE FLANGE LINE UNLESS OTHERWISE NOTED.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH THE EXISTING UTILITY FACILITIES

PROTECT INLETS WITH PROPER INLET PROTECTION AS PER DETAIL AT LOCATIONS EXHIBITING RISK OF BEING IMPACTED BY CONSTRUCTION OPERATIONS AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

THE EXACT LOCATION AND WIDTH OF TEMPORARY ACCESS FOR DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY ANY OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT THE CONTRACTOR'S EXPENSE OR AS OTHERWISE DIRECTED BY THE FIELD ENGINEER.

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZER, AND MULCH/EROSION MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN FIVE (5) CALENDAR DAYS, SEED AND MULCH THOSE AREAS WITH TEMPORARY SEED AND MULCH.

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL OR EQUIPMENT WITHIN WETLANDS OR PROTECTED AREAS IS NOT ALLOWED. WETLAND BOUNDARIES ARE SHOWN ON PLAN SHEETS.

WHEN THE QUANTITY OF HMA PAVEMENT OR BASE AGGREGATE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLAN IS THE MINIMUM REQUIRED AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

GENERAL NOTES CONT'D

BROKEN CONCRETE CONTAINING STEEL SHALL NOT BE USED AS RIPRAP OR HEAVY RIPRAP.

REMOVING CONCRETE INCLUDES ANY MESH OR REINFORCEMENT THAT MAY BE PART OF THE PAVEMENT STRUCTURE. EXISTING PAVEMENT DEPTHS ARE BASED ON AS-BUILT DATA AND MAY VARY IN THE FIELD.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN AND PROVIDE DOCUMENTATION TO THE ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS. THIS ALSO INCLUDES VERIFICATION OF INVERT ELEVATIONS AT ALL PROPOSED STORM SEWER CONNECTION POINTS TO EXISTING SYSTEMS.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN SHALL BE ADJUSTED TO FIT FIELD CONDITIONS WITH PERMISSION FROM THE ENGINEER.

CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER AND SEWRPC AT LEAST TWO (2) WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

FOR SECTION CORNER REPLACEMENT CONTACT JOHN WASHBURN WITH SEWRPC AT 414-218-2866 OR JWASHBURN@SEWRPC.ORG AT LEAST TWO WEEKS BEFORE STARTING CONSTRUCTION OPERATIONS. ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABADONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH GRANULAR BACKFILL, AS DIRECTED BY THE ENGINEER.

PROVIDE TEMPORARY POSITIVE DRAINAGE ON THE NEWLY INSTALLED STORM SEWER SYSTEM UNTIL IT IS ABLE TO EFFECTIVELY DRAIN TO ITS INTENDED OR PLANNED OUTFALL. ANY WORK REQUIRED TO COMPLETE THIS DRAINAGE IS INCIDENTAL TO THE BID ITEMS FOR STORM SEWER.

A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING ASPHALTIC CONCRETE SURFACE.

THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

LOCATIONS OF DRAINTILE ON THE PLAN ARE BASED ON AS-BUILT OR PROPERTY OWNER INTERVIEWS, DRAINTILE EXPLORATION ITEM IS TO BE USED TO VERIFY THE EXACT SIZE AND LOCATION.

FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

ABBREVIATIONS

AECPRC	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE
AECPRCHE	APRON ENDWALL CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
AECPSS	APRON ENDWALL CULVERT PIPE SLOPED SECTION
AEW	APRON END WALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
B/C	BACK OF CURB
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CONC	CONCRETE
CP	CULVERT PIPE
CPCM	CULVERT PIPE CORRUGATED METAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPITICAL
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
DWY	DRIVEWAY
EAT	ENERGY ABSORBING TERMINAL
EBS	EXCAVATION BELOW SUBGRADE
EFR	EAST FRONTAGE ROAD
EL	ELEVEATION
ESTR	EXISTING SIGN TO REMAIN
FE	FIELD ENTRANCE
FMS	FIXED MESSAGE SIGN
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE

ABBREVIATIONS CONT'D

NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RT	RIGHT
SALV	SALVAGED
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWINGS
SE	SUPER ELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT
WFR	WEST FRONTAGE ROAD

ALI IDENTIFIER	R/L CALLOUT	ROAD NAME
BRE	R/L BRAUN ROAD WB	BRAUN ROAD EB
BRW	R/L BRAUN ROAD EB	BRAUN ROAD WB
BRTA	R/L TEMPORARY BRAUN ROAD WEST TIE-IN	TEMPORARY BRAUN ROAD WEST TIE-IN
BRT	R/L TEMPORARY BRAUN ROAD NORTH	TEMPORARY BRAUN ROAD NORTH
FC1A	R/L FC1 SB	ACCESS FC1
FC1B	R/L FC1 NB	
N3A	R/L N3 SB	ACCESS N3
N3B	R/L N3 SB	
FC2A	R/L FC2 SB	ACCESS FC2
FC2B	R/L FC2 NB	
N4A	R/L N4 SB	ACCESS N4
N4B	R/L N4 SB	
FC3A	R/L FC3 SB	ACCESS FC3
FC3B	R/L FC3 NB	
N5A	R/L N5 SB	ACCESS N5
N5B	R/L N5 SB	

HMA PAVEMENT TYPE	TOTAL PAVEMENT LAYER THICKNESS	LAYERS	NOMINAL MAXIMUM SIZE GRADATION
ASPHALTIC SURFACE TEMPORARY	5"	5" UPPER LAYER	25.0 MM
4 MT 58-28 S 3 MT 58-28 S	5"	2" UPPER LAYER 3" LOWER LAYER	12.5 MM 19.0 MM

2

2

VILLAGE OF MT PLEASANT

N

KILBOURN RD DITCH

BEGIN CONSTRUCTION
STA 71BRW+30.20
X=596255.13
Y=170369.01

APPROXIMATE LOCATION OF HISTORIC BURR OAK TREE

B-51-160 BOX CULVERT

R/L BRAUN ROAD WB

70BRW
75BRW
80BRW
85BRW
90BRW
95BRW
70BRE
75BRE
80BRE
85BRE
90BRE
95BRE

BRAUN ROAD

MATCHLINE 98BRE+00

END PROJECT 2704-09-70
STA 71BRE+30.20
X=596254.05
Y=170321.12

R/L BRAUN ROAD EB

POND A

KILBOURN RD DITCH

WETLAND BOUNDARY (TYP.)

VILLAGE OF MT PLEASANT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PROJECT OVERVIEW	SHEET 5	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOT DATE : 11/26/2018 12:14:54 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

2

N

VILLAGE OF MT PLEASANT

WHEATON LANE

ACCESS N3

2004N3A

2004N3B

CONSTRUCTED BY OTHERS

R/L N3 SB

R/L N3 NB

R/L BRAUN ROAD WB

MATCHLINE 98BRE+00

100BRW

105BRW

110BRW

BRAUN ROAD

115BRW

120BRW

125BRW

100BRE

105BRE

110BRE

115BRE

120BRE

125BRE

ACCESS N4

4004N4A

4004N4B

CONSTRUCTED BY OTHERS

R/L N4 NB

R/L N4 SB

MATCHLINE 128BRE+00

ACCESS FC1

1000FC1A

1000FC1B

CONSTRUCTED BY OTHERS

R/L FC1 SB

R/L FC1 NB

R/L BRAUN ROAD EB

ACCESS FC2

3005FC2A

3005FC2B

CONSTRUCTED BY OTHERS

R/L FC2 NB

R/L FC2 SB

WETLAND BOUNDARY (TYP.)

VILLAGE OF MT PLEASANT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PROJECT OVERVIEW	SHEET 6	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBraun\t14_26x22_2022.pltcfg PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 200:1 PLOT DATE : 11/28/2022 4:59 PM

WISDOT/CADDS SHEET 42

2

VILLAGE OF MT PLEASANT

N

CTH H

VILLAGE OF STURTEVANT

TOWNSHIP BOUNDARY

6004N5A

6004N5B

ACCESS N5

CONSTRUCTED BY OTHERS

R/L N5 NB

R/L N5 SB

R/L BRAUN ROAD WB

MATCHLINE 128BRE+00

130BRW

135BRW

140BRW

145BRW

150BRW

155BRW

BRAUN ROAD

130BRE

135BRE

140BRE

145BRE

150BRE

155BRE

END CONSTRUCTION
STA 154BRW+21.50
X=604545.48
Y=170249.64

BEGIN CONSTRUCTION
STA 149BRE+84.06
X=604107.10
Y=170221.44

END CONSTRUCTION
STA 154BRE+91.17
X=604614.14
Y=170212.41

R/L BRAUN ROAD EB

CONSTRUCTED BY OTHERS

R/L FC3 NB

R/L FC3 SB

ACCESS FC3

5000FC3A

5000FC3B

END PROJECT 2704-09-70
STA 149BRE+84.06
X=604107.10
Y=170221.44

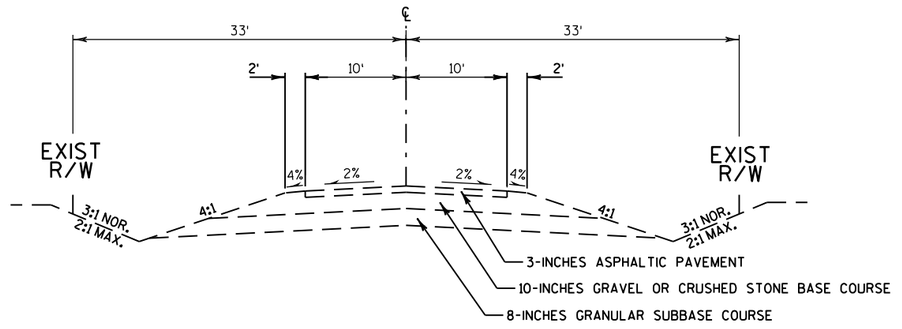
WETLAND BOUNDARY (TYP.)

CTH H

VILLAGE OF MT PLEASANT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PROJECT OVERVIEW	SHEET 7	E

2



TYPICAL EXISTING SECTION

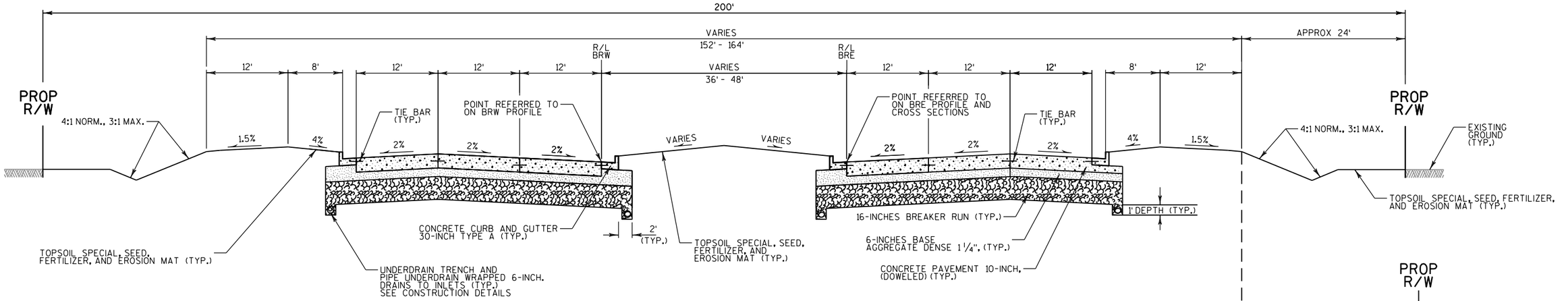
BRAUN ROAD

STA 71BRE+30 - STA 149BRE+85

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TYPICAL EXISTING SECTIONS - BRAUN ROAD	SHEET	E

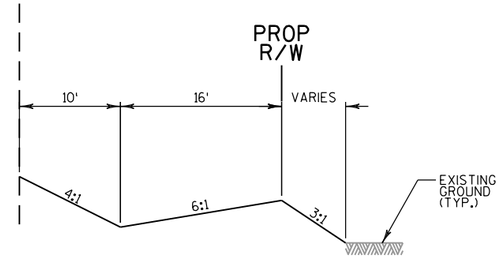
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2

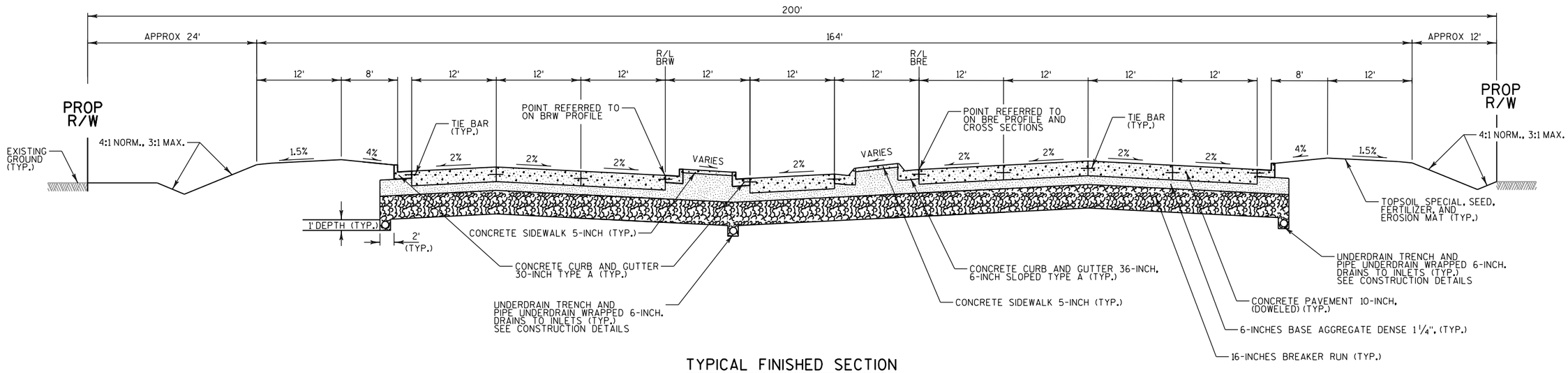


TYPICAL FINISHED SECTION

STA. 71BRE+30.22 - STA. 96BRE+27.21
STA. 104BRE+96.47 - STA. 117BRE+45.33
STA. 126BRE+41.19 - STA. 138BRE+11.31
STA. 146BRE+96.89 - STA. 149BRE+84.06



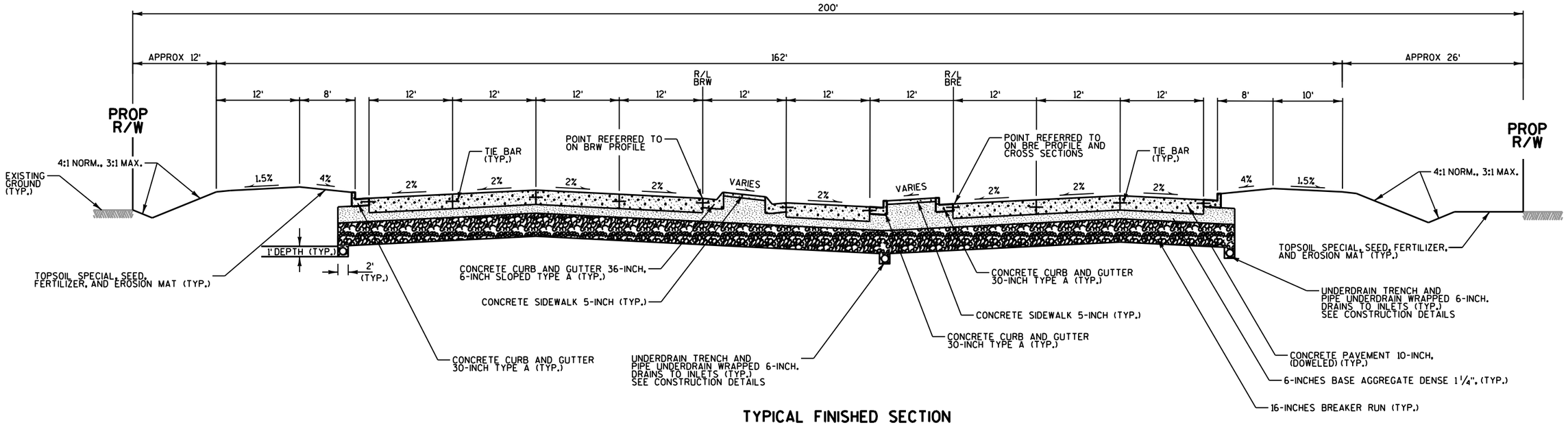
STA. 93BRE+00.0 - STA. 94BRE+00.0
STA. 101BRE+25.0 - STA. 117BRE+25.0
STA. 123BRE+00.0 - STA. 138BRE+75.0



TYPICAL FINISHED SECTION

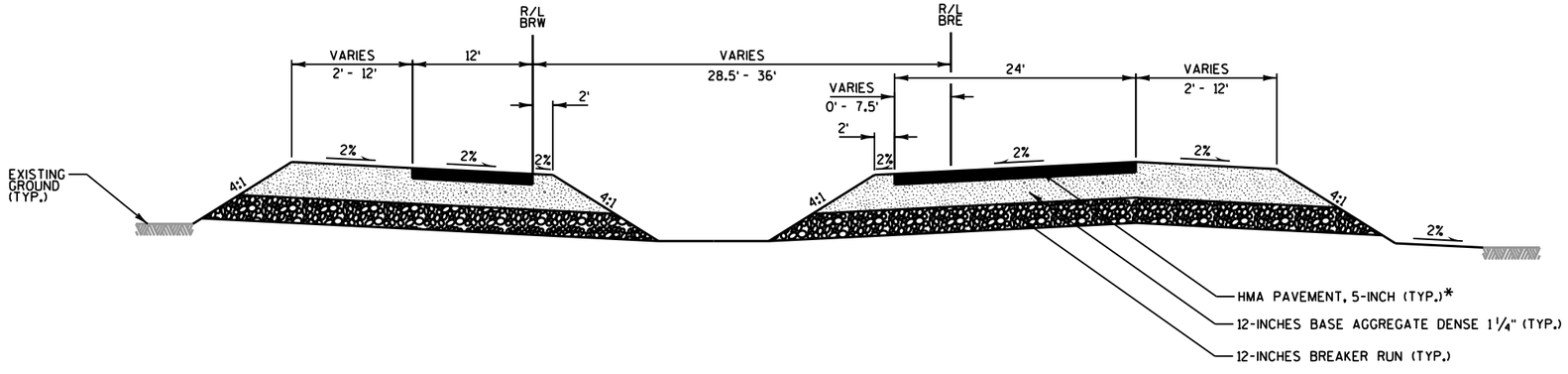
STA. 98BRE+35.09 - STA. 100BRE+38.35
STA. 119BRE+58.35 - STA. 121BRE+58.36
STA. 140BRE+23.85 - STA. 142BRE+27.10

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TYPICAL FINISHED SECTIONS - BRAUN ROAD	SHEET 9	E



TYPICAL FINISHED SECTION

STA. 100BRE+80.35 - STA. 102BRE+83.93
STA. 122BRE+24.36 - STA. 124BRE+28.65
STA. 142BRE+69.10 - STA. 144BRE+84.35



TIE-IN AT PROPOSED BRAUN ROAD

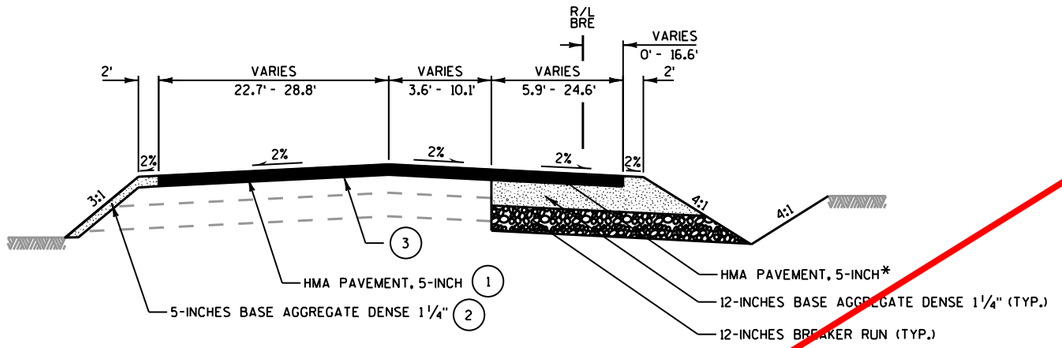
STA. 149BRE+84.06 - STA. 151BRE+00.00

*SEE GENERAL NOTES FOR HMA GRADATION SPECIFICS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TYPICAL FINISHED SECTIONS - BRAUN ROAD	SHEET 10	E

NOTES:

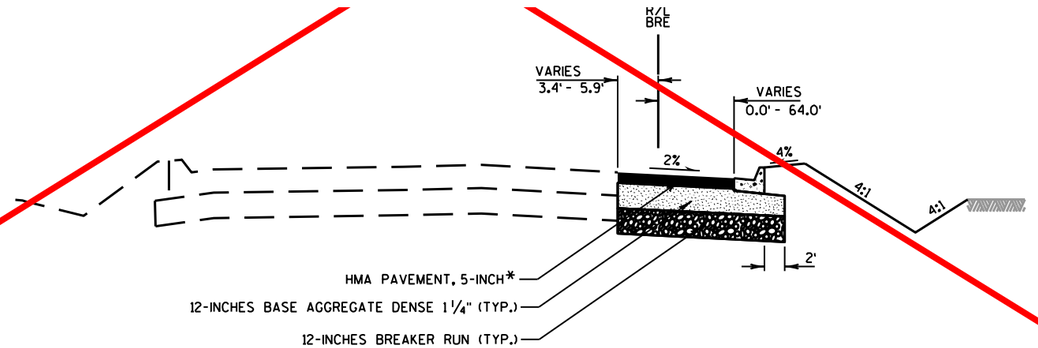
1. OVERLAY HMA PAVEMENT, 5-INCH DIRECTLY ON TOP OF EXISTING BRAUN ROAD PAVEMENT.
2. 5-INCHES BASE AGGREGATE DENSE 1¼" TO EXTEND DOWN EXISTING SLOPE.
3. APPLY DOUBLE APPLICATION RATE OF TACK COAT AT 1.5 GAL/SY.



TIE-IN AT PROPOSED BRAUN ROAD

STA. 151BRE+00.00 - STA. 153BRE+55.00

DELETED



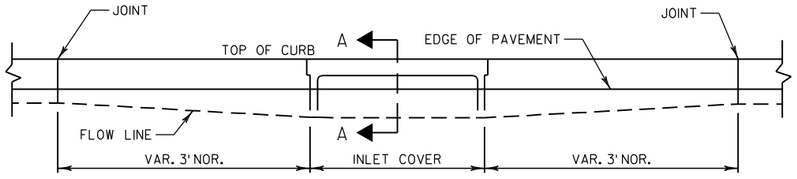
TIE-IN AT PROPOSED BRAUN ROAD

STA. 153BRE+55.00 - STA. 154BRE+37.81

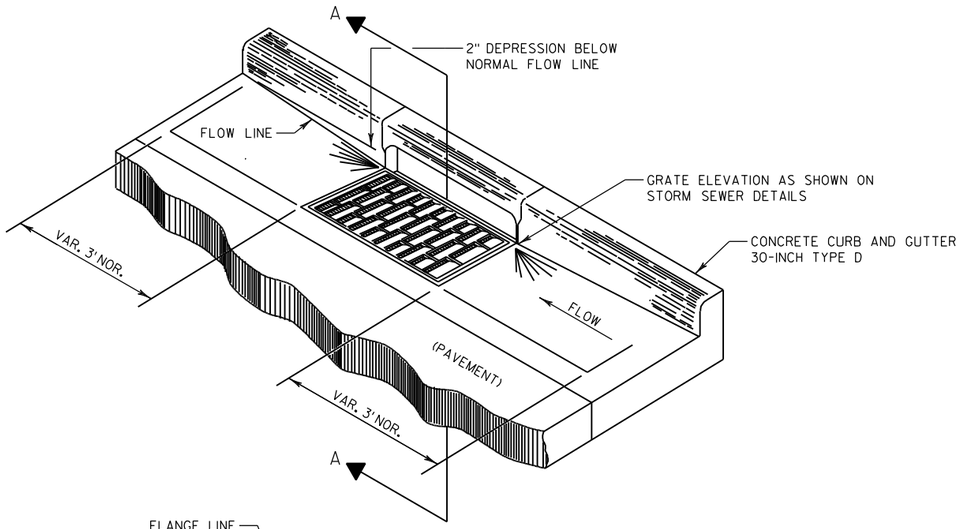
*SEE GENERAL NOTES FOR HMA GRADATION SPECIFICS

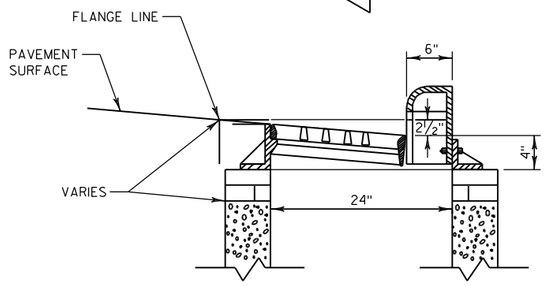
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TYPICAL FINISHED SECTIONS - BRAUN ROAD	SHEET 11	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD01_t1x28\2704... 01_ts.dgn PLOT BY : dkarasek PLOT NAME : $FILE$ PLOT SCALE : 23.1818:1



ELEVATION





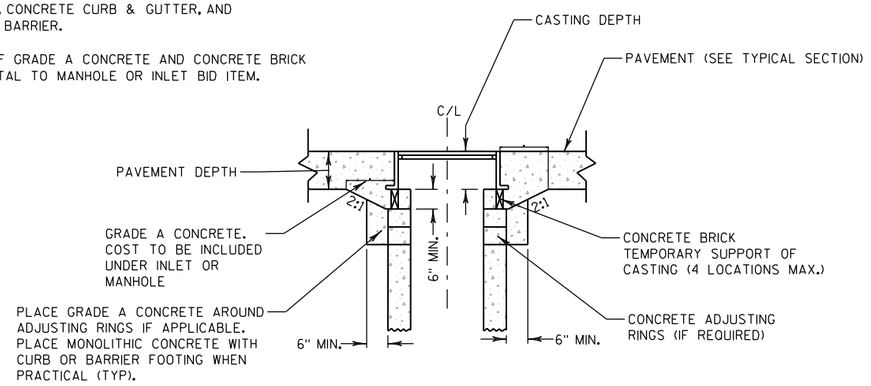
SECTION A-A

DETAIL OF CURB AND GUTTER AT INLETS

NOTE

1) MONOLITHIC CONCRETE SHIMMING TO BE PROVIDED FOR ALL PROPOSED COVERS LOCATED IN CONCRETE PAVEMENT, CONCRETE CURB & GUTTER, AND CONCRETE BARRIER.

2) COST OF GRADE A CONCRETE AND CONCRETE BRICK IS INCIDENTAL TO MANHOLE OR INLET BID ITEM.



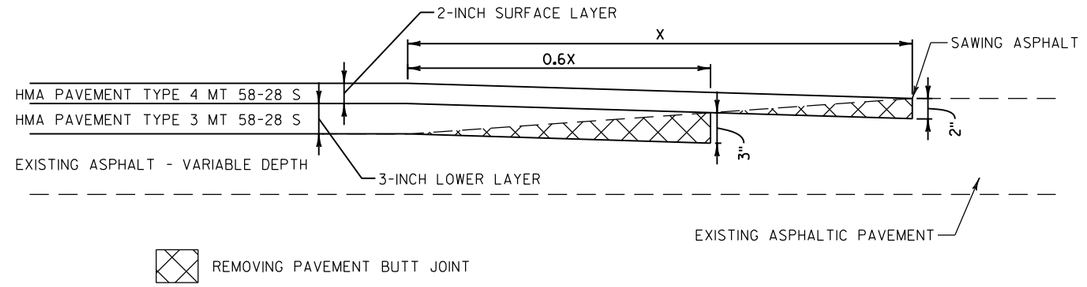
MONOLITHIC CONCRETE SHIMMING DETAIL

NOTES

CONTRACTOR TO PROVIDE A 10' WIDE TEMPORARY ASPHALTIC WEDGE ADJACENT TO MILLED BUTT JOINT AT ALL STREETS WHERE TRAFFIC IS TO BE MAINTAINED DURING CONSTRUCTION.

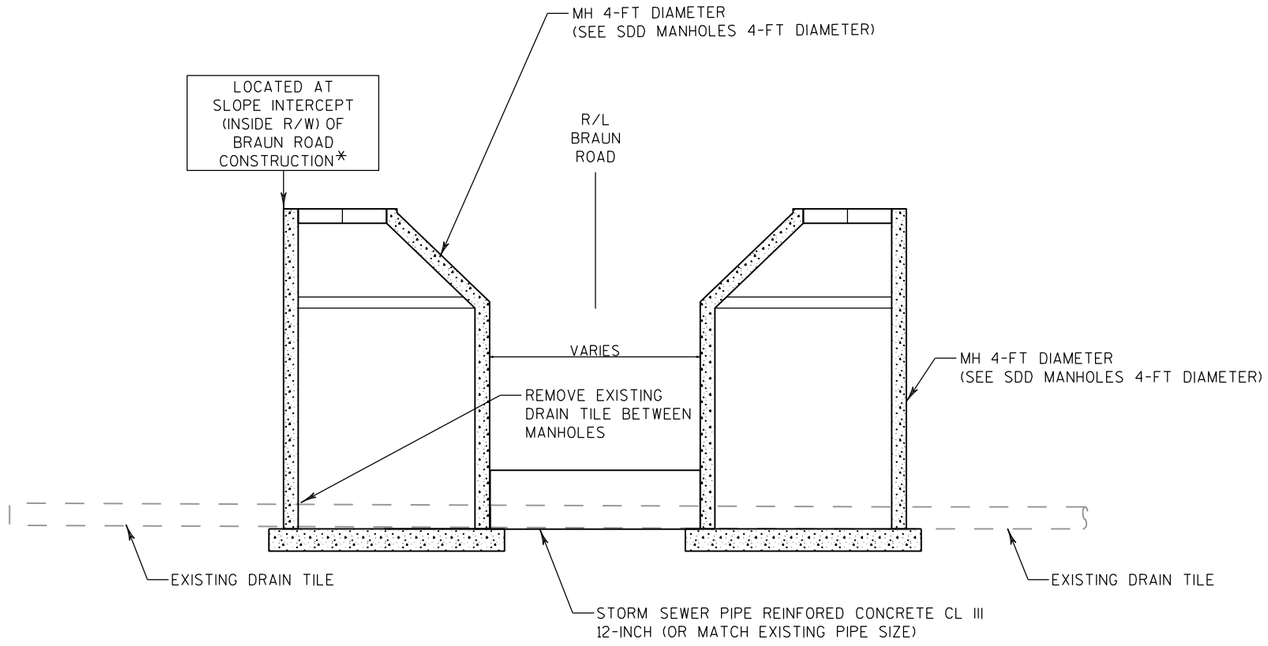
THE TEMPORARY ASPHALTIC WEDGE WILL BE CONSIDERED INCIDENTAL TO THE ITEM "REMOVING ASPHALTIC SURFACE, BUTT JOINTS."

X	STATION RANGE
50	153BRE+05 - 153BRE+55
25	150BRT+70 - 150BRT+95



BUTT JOINT DETAIL

2



* LOCATION CAN BE ADJUSTED AS NEEDED
IF APPROVED BY THE ENGINEER

DRAIN TILE CONFIGURATION

(FOR BRAUN ROAD CROSSINGS)

STAGING

1. BRAUN ROAD CONSTRUCTION:

   CONSTRUCT MANHOLE 4-FT DIAMETER SPECIAL. CONNECT EXISTING TILE TO MANHOLE. REPLACE EXISTING TILE WITH SSPRC CLASS III 12-INCH BETWEEN MANHOLES.

   CONTRACTOR TO MAINTAIN DRAINAGE FOR EXISTING DRAIN TILE DURING CONSTRUCTION AS APPROVED BY THE ENGINEER.

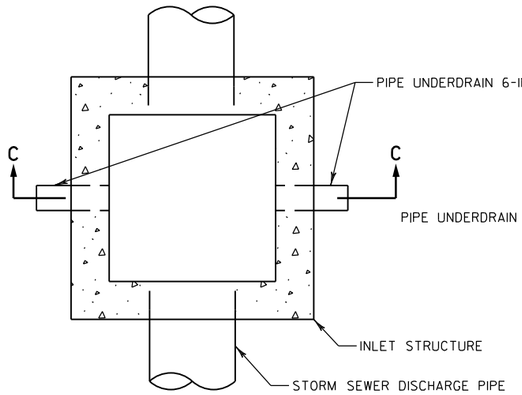
NOTES

1. IF EXISTING DRAIN TILE IS LARGER THAN 12", MATCH THE EXISTING SIZE IN THE FIELD.
2. GRADING AT MANHOLES TO BE FLUSH WITH TOP OF THE MANHOLE.

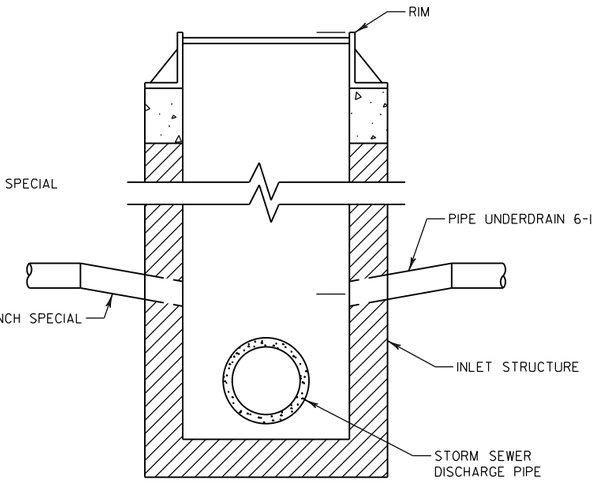
2

NOTES

1. CONNECTIONS TO INLETS OR MANHOLES IN MEDIAN SHALL USE PIPE UNDERDRAIN 6-INCH SPECIAL.
2. PROVIDE TWO 6" DIA. OPENINGS FOR UNDERDRAIN PIPE A MINIMUM OF 49" BELOW THE RIM ELEVATION.
3. SEE TYPICAL SECTIONS, STORM SEWER, AND UNDERDRAIN PLANS FOR PIPE UNDERDRAIN LOCATIONS.
3. CORE CONNECTION FOR THE INLET DRAIN IS INCIDENTAL TO PIPE UNDERDRAIN 6-INCH SPECIAL.

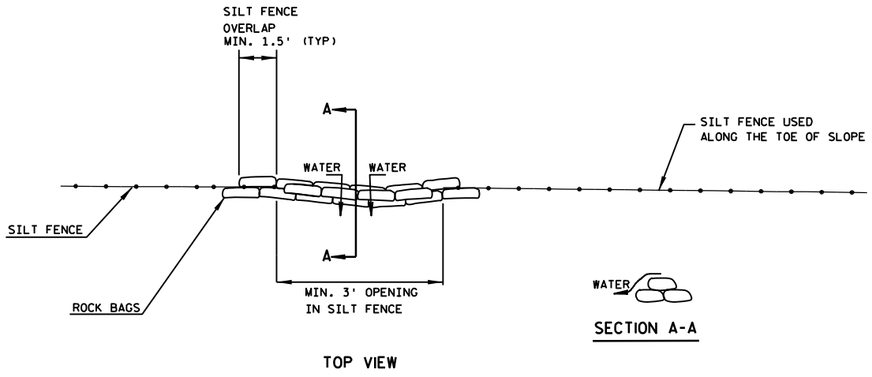


PLAN VIEW

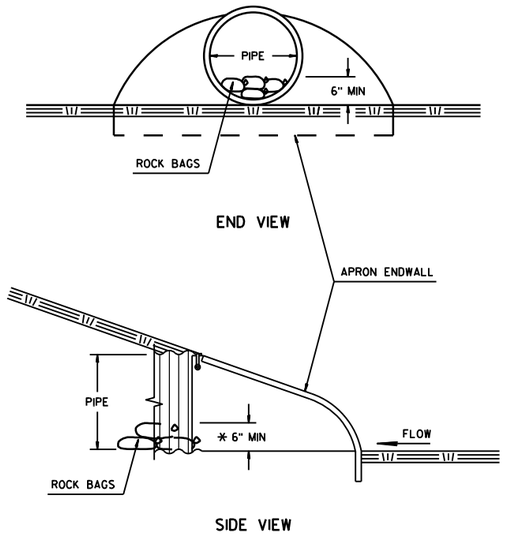


SECTION C-C

UNDERDRAIN OUTFALL AT INLET



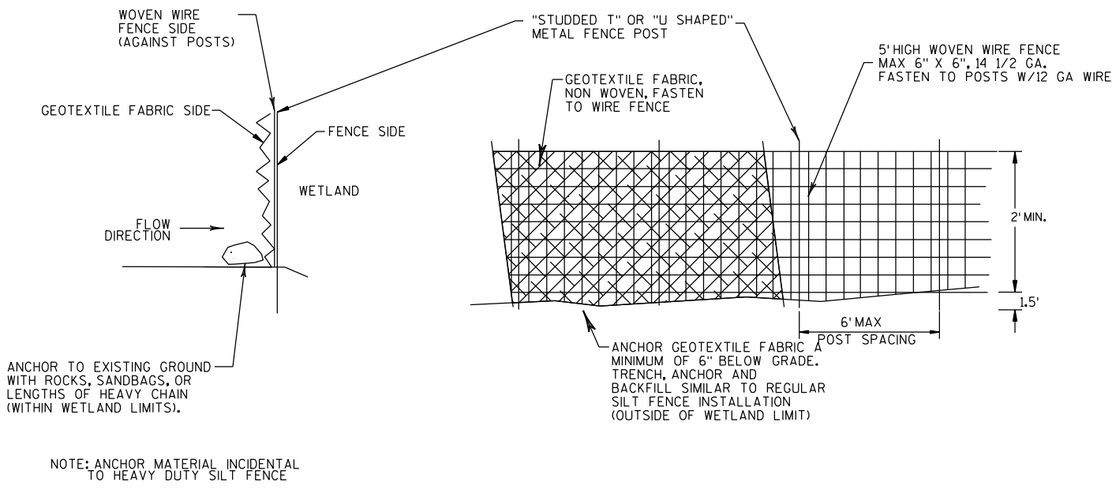
ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL



CULVERT PIPE ENDS

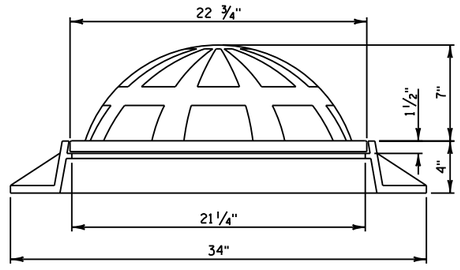
ESTIMATED BAG SIZE = 18" X 12" X 6"	
PIPE SIZE	ESTIMATED NUMBER OF BAGS
12"	1
15"	2
18"	2
24"	3
30"	5
36"	7
42"	7
48"	10
54"	10
60"	13
66"	14
72"	16
13"X17"	2
19"X30"	5
24"X38"	7
29"X45"	10
34"X53"	10
38"X60"	13
48"X76"	18

ROCK BAGS



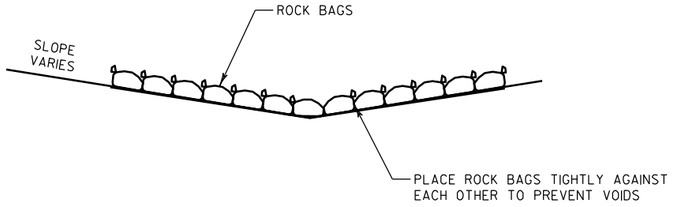
NOTE: ANCHOR MATERIAL INCIDENTAL TO HEAVY DUTY SILT FENCE

HEAVY DUTY SILT FENCE

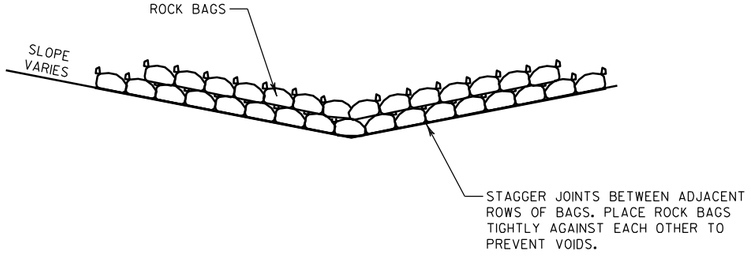


INLET COVERS BEEHIVE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 15	E



SIDE VIEW (SINGLE LAYER)



* LENGTH AND NUMBER OF BAGS MAY VARY DEPENDING ON DESIRED DEPTH OF WATER POOL.

SIDE VIEW (DOUBLE LAYER)

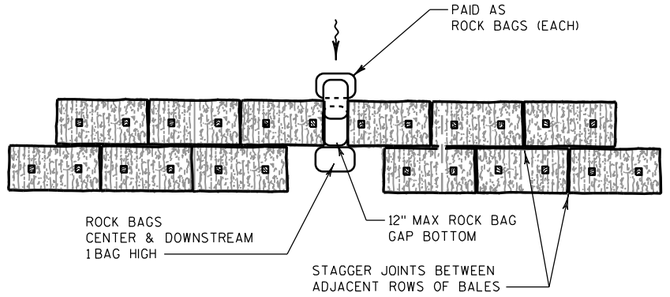
TEMPORARY DITCH CHECK, ROCK BAGS, SINGLE LAYER AND DOUBLE LAYER

NOTE

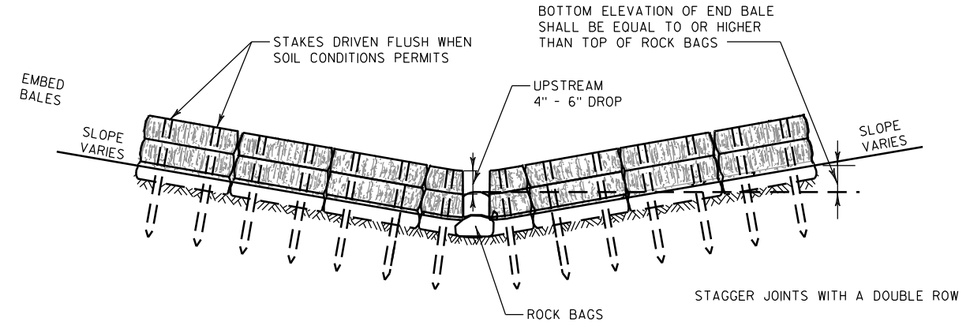
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

THIS INSTALLATION METHOD SHALL ONLY BE USED AT THE DIRECTION OF THE ENGINEER.

2



PLAN VIEW



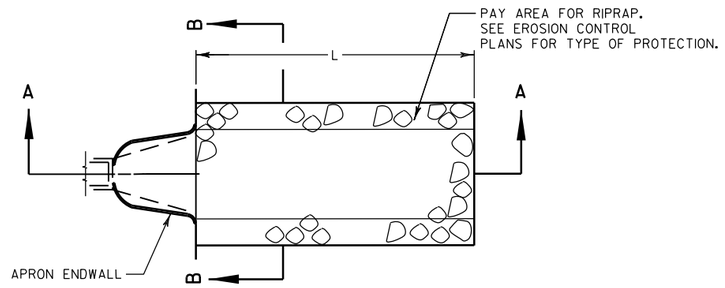
FRONT VIEW

NOTE

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.

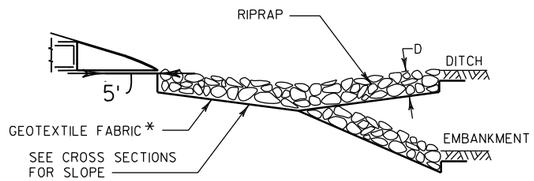
THIS INSTALLATION METHOD SHALL ONLY BE USED AT THE DIRECTION OF THE ENGINEER.

TEMPORARY DITCH CHECK, MODIFIED



PLAN VIEW

L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER



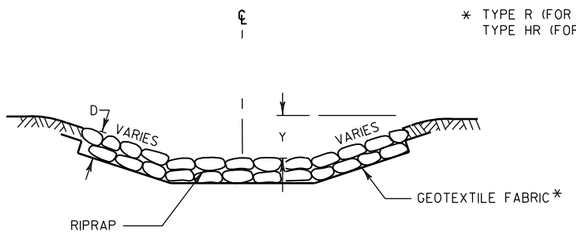
SECTION A-A

D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

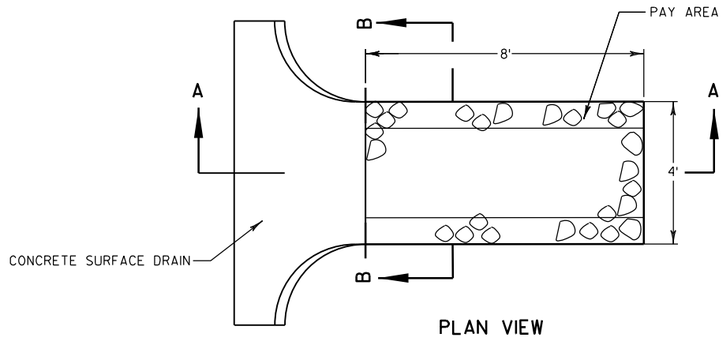
* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)



SECTION B-B

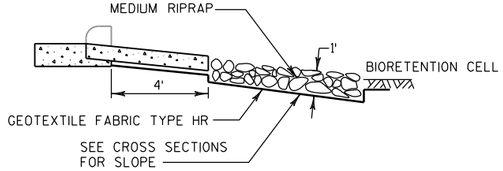
RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

SEE EROSION CONTROL PLAN FOR LOCATIONS

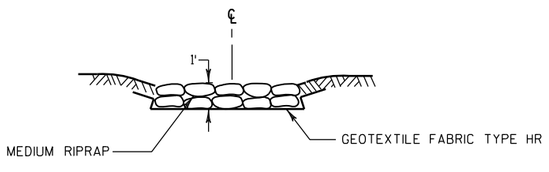


PLAN VIEW

CONSTRUCT CONCRETE SURFACE DRAIN
TO END OF RADII PER SDD 8D4
"CONCRETE SURFACE DRAINS AND
ASPHALTIC FLUMES".



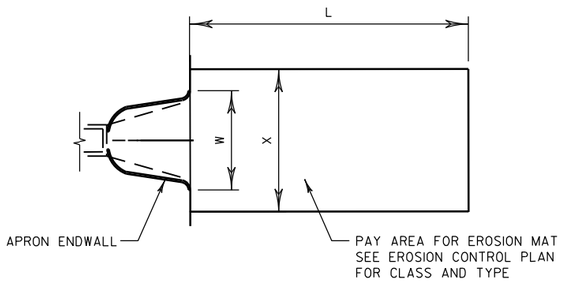
SECTION A-A



SECTION B-B

RIPRAP AND GEOTEXTILE FABRIC DETAIL AT CONCRETE SURFACE DRAIN

SEE PLAN DETAILS FOR LOCATIONS



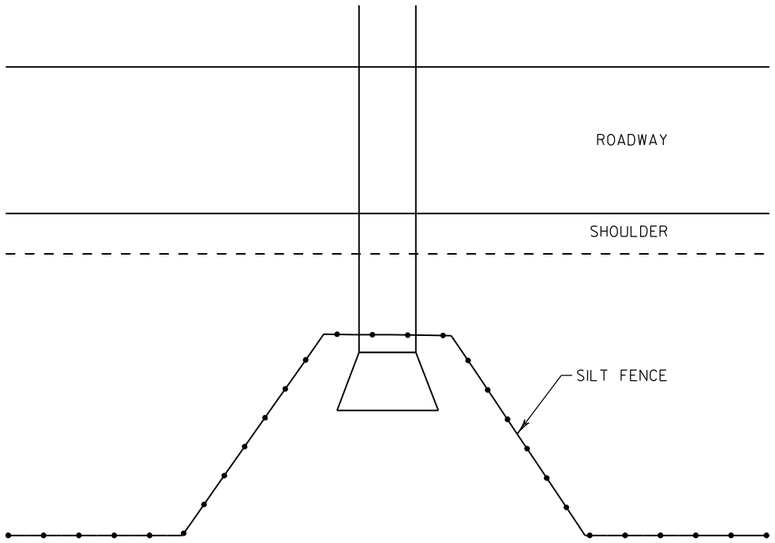
W = WIDTH OF APRON ENDWALL

L = 3 x W (NORMAL) OR 10' (MINIMUM) OR
AS INDICATED IN THE PLANS OR
AS DIRECTED BY THE ENGINEER.

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

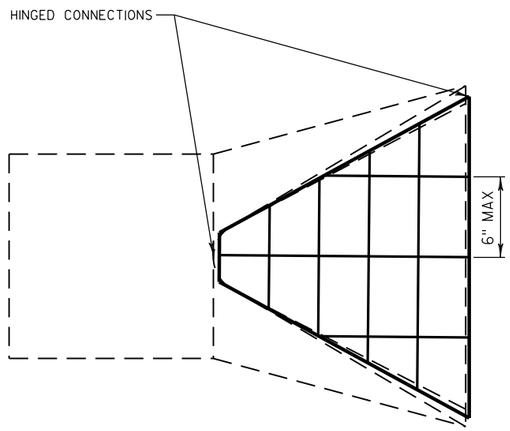
EROSION MAT TREATMENT AT CULVERTS

SEE EROSION CONTROL PLAN FOR LOCATIONS

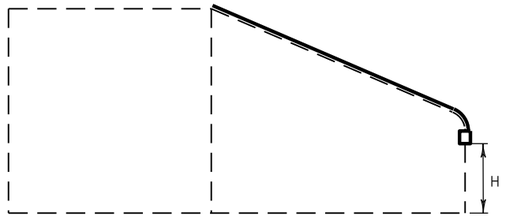


NOTE
SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

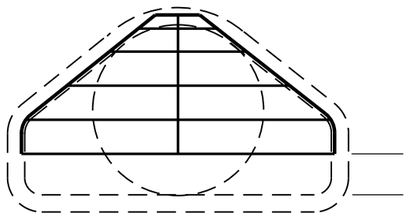
TYPICAL SILT FENCE DETAIL AT PIPE INLET



PLAN VIEW



SIDE VIEW



END VIEW

PIPE GRATE

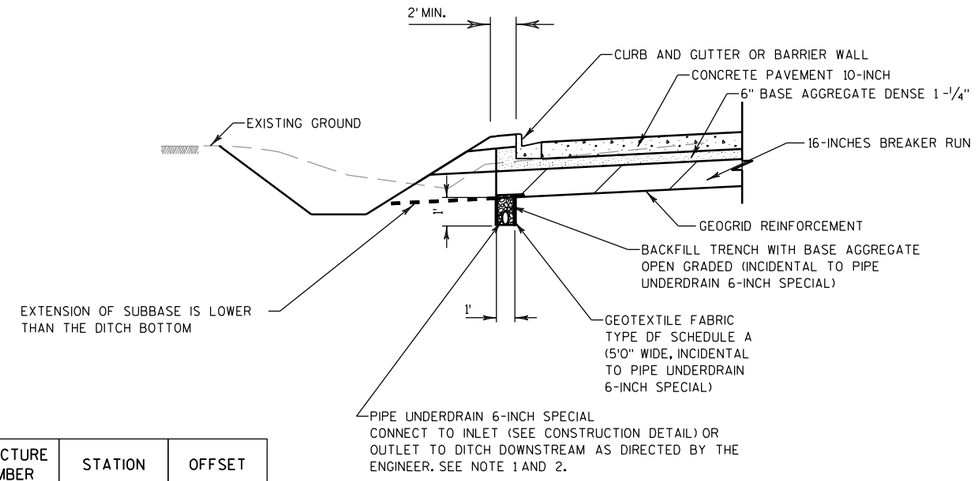
GRATE CLEARANCE HEIGHT

ROUND PIPE		ARCH PIPE	
PIPE SIZE	H	PIPE SIZE	H
12"	2 1/2"	22" - 29"	4"
15"	3"	36" - 44"	5"
18" - 24"	4"	51" - 65"	6"
27" - 36"	5"	73" - 85"	7"
42" - 54"	6"		
60" - 72"	7"		
78" - 90"	8"		

GRATE BAR SIZES
(STANDARD DESIGN)

	PIPE SIZE	HOLE DIAMETER REQUIRED	BOLT DIAMETER	BAR SIZE
ROUND PIPE	12" - 24"	3/4"	5/8"	5/8"
	27" - 48"	7/8"	3/4"	3/4"
	54" - 90"	1 1/8"	1"	1"
ARCH PIPE	22" - 29"	3/4"	5/8"	5/8"
	36" - 59"	7/8"	3/4"	3/4"
	65" - 85"	1 1/8"	1"	1"

BOLT LENGTH = PIPE WALL THICKNESS + 2 1/2"



PIPE UNDERDRAIN IN URBAN SECTIONS

STRUCTURE NUMBER	STATION	OFFSET
79	79BRE+09.14	36.70' RT
80A	79BRE+76.95	36.70' RT
80B	79BRE+51.80	1.50' LT
80C	79BRE+20.45	1.50' LT
80E	79BRW+51.41	1.50' RT
80F	79BRW+19.81	1.50' RT
80H	79BRW+71.54	37.00' LT
80I	79BRW+7.26	37.00' LT
90	90BRE+34.63	37.50' RT
90A	89BRE+54.29	37.50' RT
91	90BRE+72.97	1.50' LT
91A	91BRE+40.01	37.50' RT
91B	90BRE+73.59	1.50' LT
91C	90BRE+47.46	1.50' LT
91E	90BRW+73.24	1.50' RT
91F	90BRW+47.12	1.50' RT
91H	91BRW+01.21	37.00' LT
91I	90BRW+47.52	37.00' LT
132	131BRW+75.35	37.50' RT
132A	131BRE+54.75	37.50' RT
132B	131BRE+96.53	37.50' RT
132C	131BRE+75.05	1.50' LT
132D	132BRE+5.04	1.50' LT
132F	131BRW+74.62	1.50' RT
132G	132BRW+05.37	1.50' RT
132I	131BRW+95.16	37.00' LT
132J	131BRW+53.57	37.00' LT

NOTES:

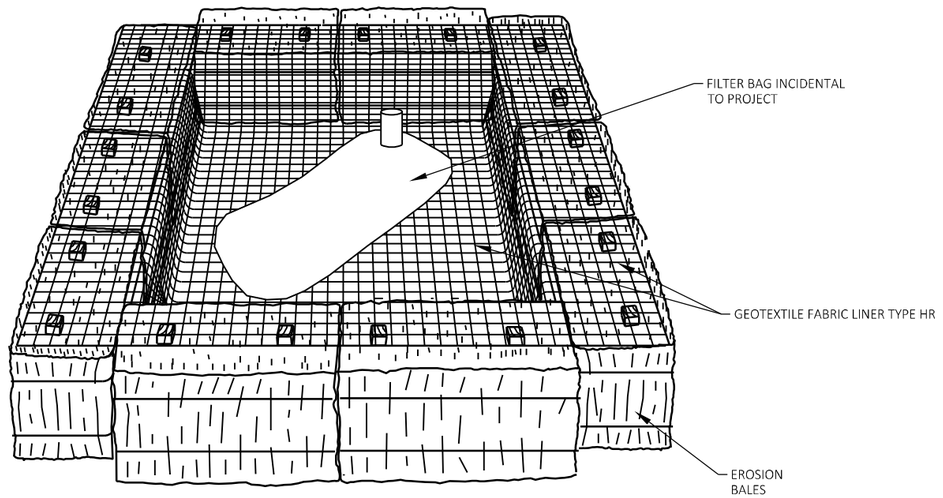
1. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO CONNECT TO DITCHES OUTSIDE THE EBS AREA.

2. PIPE UNDERDRAIN UNPERFORATED REQUIRED AT LOCATIONS WHERE UNDERDRAIN IS REQUIRED TO OUTFALL IN DITCHES ON THE OPPOSITE SIDE OF THE ROAD (SEE UNDERDRAIN LATERAL CROSSING OUTLET DETAIL)

3. USE APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE AT ALL DITCH OUTFALLS OF PIPE UNDERDRAIN.

4. ADJUST LATERAL LOCATION OF PIPE UNDERDRAIN AS NECESSARY TO AVOID CONFLICTS WITH THE STORM SEWER.

2



(SIZE TO BE DETERMINED IN FIELD AS INDICATED BELOW:)

STORAGE VOLUME (C.F.) = 16 X GPM (PUMP RATE)

EXAMPLE:
CONTRACTOR INDICATES PUMP CAPABLE OF 50 GPM
HEIGHT OF BALES = 1.5 FT.

SOLUTION:
SV (C.F.) = 16 X 50
SV = 800 C.F.

$\frac{800 \text{ C.F.}}{1.5 \text{ FT.}}$ = 533 S.F.

USE A 20 FT. X 27 FT. BASIN

NOTES

1) CONTRACTOR SHALL PUMP FROM DEWATERING OPERATIONS INTO TEMPORARY SETTLING BASINS PRIOR TO DISCHARGING INTO ROADSIDE DITCHES.

2) BASIN SHALL BE KEPT LESS THAN 10% FULL OF SEDIMENT. GEOTEXTILE FABRIC AND SEDIMENTS SHALL BE DISPOSED BY THE CONTRACTOR OFF OF THE PROJECT SITE.

3) TEMPORARY SETTLING BASIN SHALL BE PAID FOR AS EROSION BALES AND GEOTEXTILE FABRIC HR.

TEMPORARY SETTLING BASIN

UNDISTRIBUTED

STATION	OFFSET
84BRE+20	140'RT
90BRE+96	165'RT
148BRE+88	218'RT

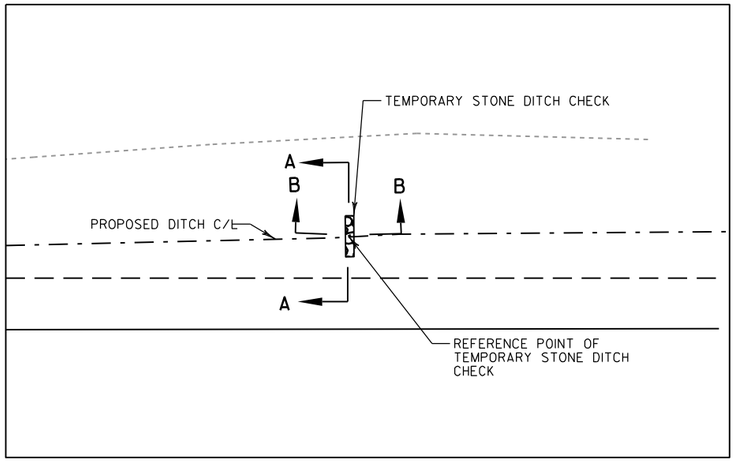
GENERAL NOTES

STONE DITCH CHECKS MUST BE INSTALLED WITH THE CENTER LOWER THAN THE SIDES FORMING A WEIR (SEE SECTION A-A).

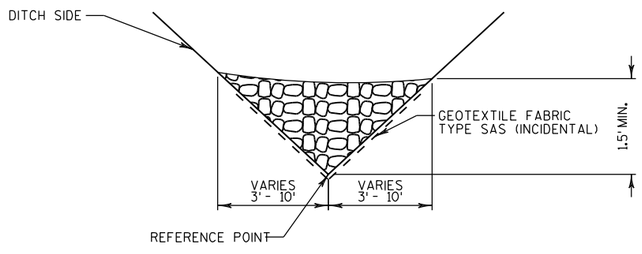
STONE DITCH CHECKS SHALL HAVE A MINIMUM TOP WIDTH OF 2-FT MEASURED IN THE DIRECTION OF FLOW WITH MAXIMUM SLOPES OF 2:1 ON THE UPSLOPE AND 2:1 ON THE DOWN SLOPE SIDE.

STONE DITCH CHECKS SHALL BE CONSTRUCTED OF A WELL-GRADED LIGHT RIPRAP MATERIAL.

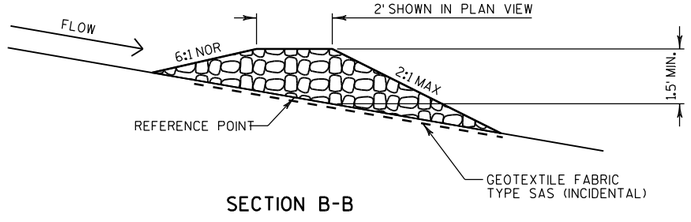
STONE DITCH CHECKS IDENTIFIED IN STORM SEWER PLAN ARE PERMANENT AND SHALL NOT BE REMOVED UPON COMPLETION OF CONSTRUCTION.



PLAN VIEW

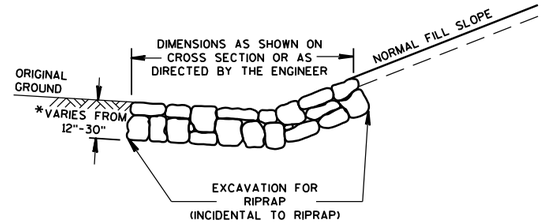


SECTION A-A



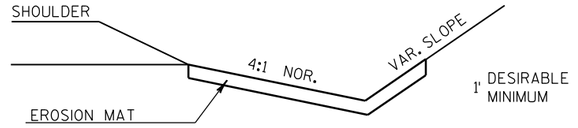
SECTION B-B

TEMPORARY STONE DITCH CHECKS

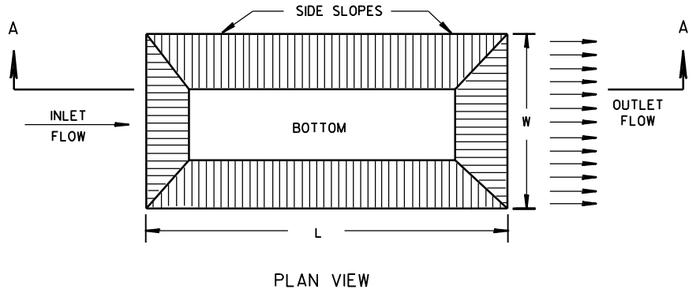


DETAIL FOR RIPRAP IN DITCHES

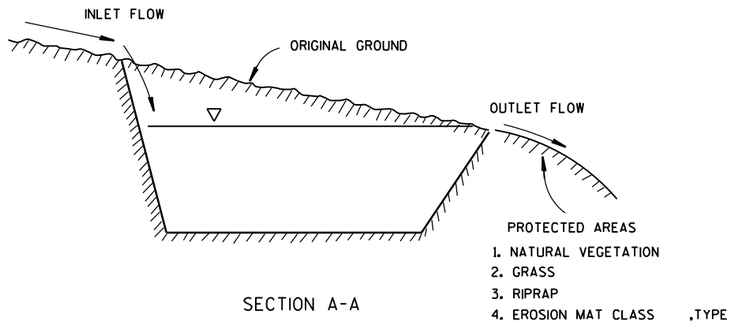
* PROVIDE DEPTHS AND VARIOUS RIPRAP SIZES IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS.



EROSION MAT DETAIL FOR DITCHES

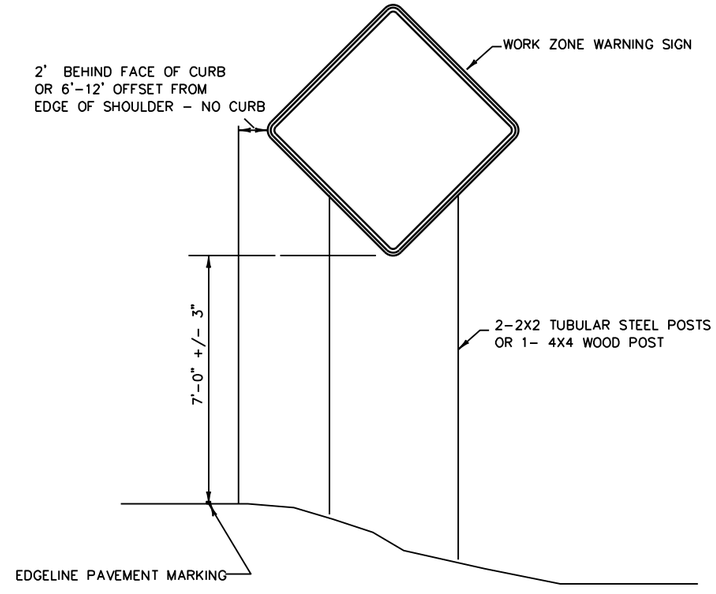


PLAN VIEW



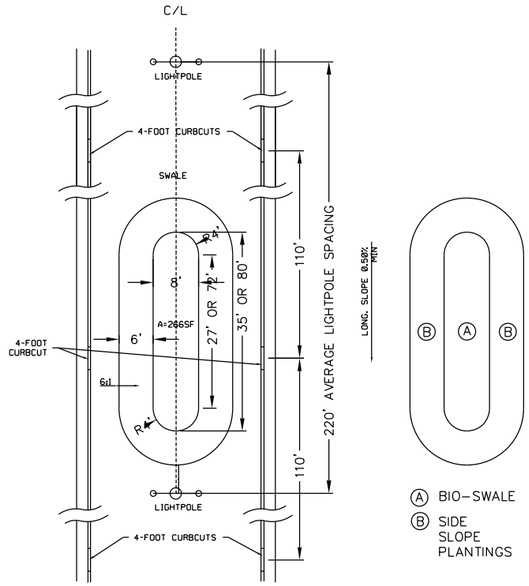
SECTION A-A

TYPICAL EXCAVATED SEDIMENT TRAP

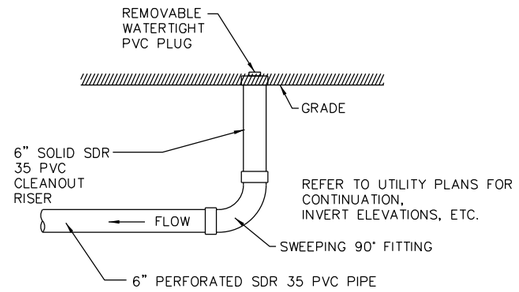


TYPICAL TEMPORARY TRAFFIC CONTROL DETAIL
MOUNTING ON FIXED SUPPORT

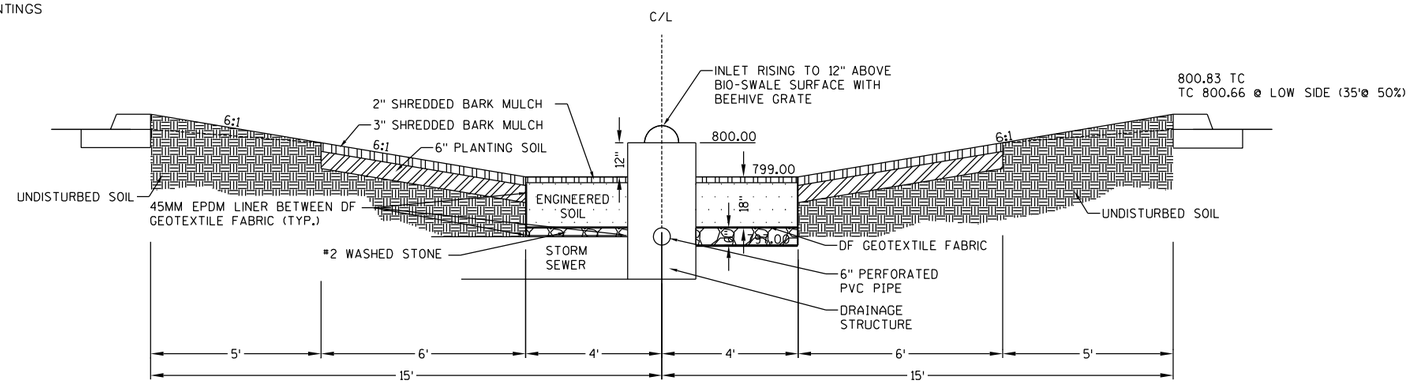
LONG TERM
7 DAYS OR MORE



BIORETENTION CELL DETAIL - PLAN VIEW

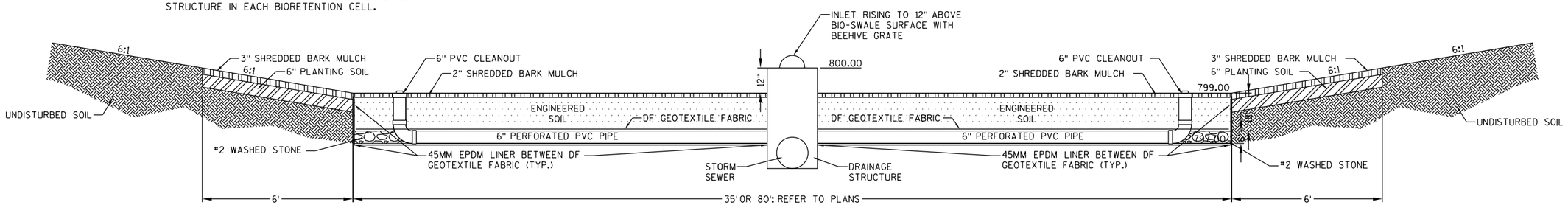


BIORETENTION CELL DETAIL - DRAINTILE CLEANOUT



BIORETENTION CELL DETAIL - TYPICAL WIDTH SECTION

NOTE: ELEVATIONS SHOWN ARE TO DISPLAY THE TYPICAL RELATIONSHIP OF ONE ELEVATION POINT TO ANOTHER WITHIN THE CELL. ACTUAL FIELD ELEVATIONS WILL VARY FROM BASIN TO BASIN. REFERENCE THE RIM ELEVATION OF THE OUTFLOW STRUCTURE IN EACH BIORETENTION CELL.



BIORETENTION CELL DETAIL - TYPICAL LONG SECTION

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 22	E

2

2

CONSTRUCTED BY OTHERS

ASPHALTIC SURFACE TEMPORARY, 5-INCH

N

SCALE, FEET 0 25 50

PROPOSED R/W

LONGITUDINAL JOINT LINE

TRANSVERSE JOINT LINE

TRANSVERSE JOINT LINE

PROPOSED R/W

ASPHALTIC SURFACE TEMPORARY, 5-INCH

CONSTRUCTED BY OTHERS

PAVING AT ACCESS ROADS: PRIOR TO UNDERGROUND CONSTRUCTION

NOTES:

1. FC2/ N4 INTERSECTION SHOWN. REPEAT PAVING TECHNIQUE AT FC1/ N3 AND FC3/ N5 INTERSECTIONS.
2. CONTRACTOR TO MAINTAIN ACCESS TO AT LEAST ONE DRIVEWAY AT A TIME.
3. PRIOR TO UNDERGROUND CONSTRUCTION, PAVE 5-INCHES ASPHALTIC SURFACE TEMPORARY. AFTER UNDERGROUND CONSTRUCTION, POUR CURB AND GUTTER 30-INCH TYPE A, PAVE CONCRETE PAVEMENT 10-INCH, AND CONSTRUCT ISLANDS AND CURB RAMPS.
4. UNDERGROUND CONSTRUCTION INCLUDES INSTALLATION OF UTILITY LINES AND DRAINAGE SYSTEM.
5. SEE SHADED AREA FOR APPROXIMATE PAVING AREA.
6. ALL CONCRETE PAVING IN DRIVEWAYS TO BE DIFFERED TO STAGE 3 WITH ISLANDS.

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 23	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040 PLOT DATE : 8/29/2018 1:20:51 PM PLOT BY : dbaumann PLOT NAME : $FILE$ PLOT SCALE : 15:1

WISDOT/CADDS SHEET 42

2

2

N

SCALE, FEET 0 25 50

CONSTRUCTED BY OTHERS

PROP UTILITIES (TYP)

CONCRETE PAVEMENT 10-INCH

PROPOSED R/W

G G G G G G

W W W W W W

LONGITUDINAL JOINT LINE

TRANSVERSE JOINT LINE

TRANSVERSE JOINT LINE

G G G G G G

W

PROPOSED R/W

PROP UTILITIES (TYP)

CONCRETE PAVEMENT 10-INCH

CONSTRUCTED BY OTHERS

PAVING AT ACCESS ROADS: POST UNDERGROUND CONSTRUCTION

NOTES:

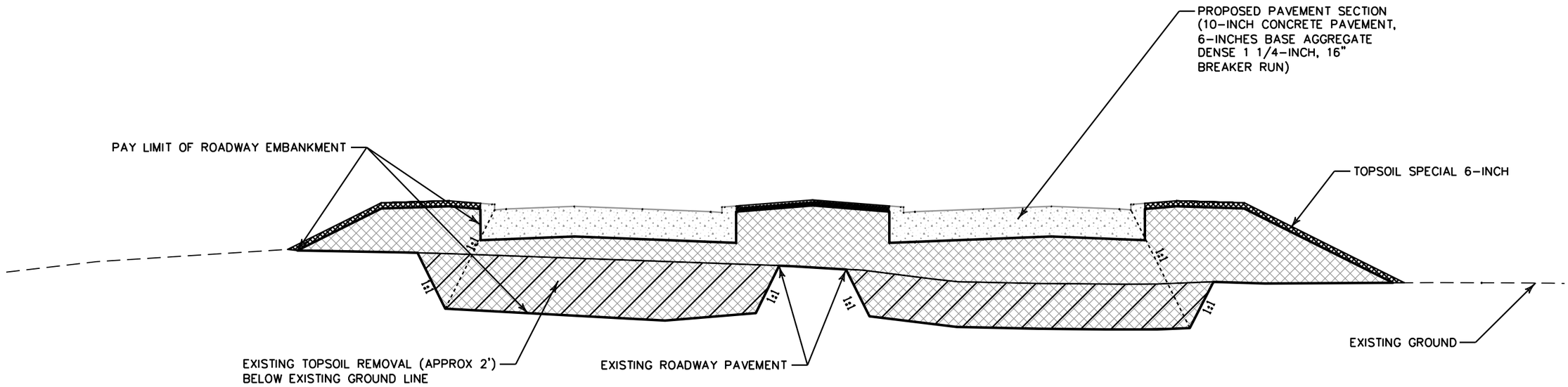
1. FC2/ N4 INTERSECTION SHOWN. REPEAT PAVING TECHNIQUE AT FC1/ N3 AND FC3/ N5 INTERSECTIONS.
2. CONTRACTOR TO MAINTAIN ACCESS TO AT LEAST ONE DRIVEWAY AT A TIME.
3. PRIOR TO UNDERGROUND CONSTRUCTION, PAVE 5-INCHES ASPHALTIC SURFACE TEMPORARY. AFTER UNDERGROUND CONSTRUCTION, POUR CURB AND GUTTER 30-INCH TYPE A, PAVE CONCRETE PAVEMENT 10-INCH, AND CONSTRUCT ISLANDS AND CURB RAMPS.
4. UNDERGROUND CONSTRUCTION INCLUDES INSTALLATION OF UTILITY LINES AND DRAINAGE SYSTEM.
5. SEE HATCHED AREA FOR APPROXIMATE PAVING AREA.
6. ALL CONCRETE PAVING IN DRIVEWAYS TO BE DIFFERED TO STAGE 3 WITH ISLANDS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 24	E

LEGEND:

ROADWAY EMBANKMENT LIMITS

TOPSOIL REMOVAL



TOPSOIL REMOVAL DETAIL
(SUBGRADE IN FILL)

NOTES:

STRIP TOPSOIL FROM ROADWAY FOUNDATION. REPLACE WITH ROADWAY EMBANKMENT.

EXCESS TOPSOIL REMOVED NOT REQUIRED TO COVER SIDE SLOPES UNDER THE TOPSOIL SPECIAL BID ITEM TO BE PAID AS EXCAVATION COMMON.

THE TOPSOIL THICKNESS MAY BE INCREASED TO 12" OR AS DIRECTED BY THE ENGINEER TO UTILIZE EXCESS TOPSOIL.
TOPSOIL PLACED THICKER THAN 6" WILL BE PAID FOR UNDER THE ROADWAY EMBANKMENT BID ITEM.

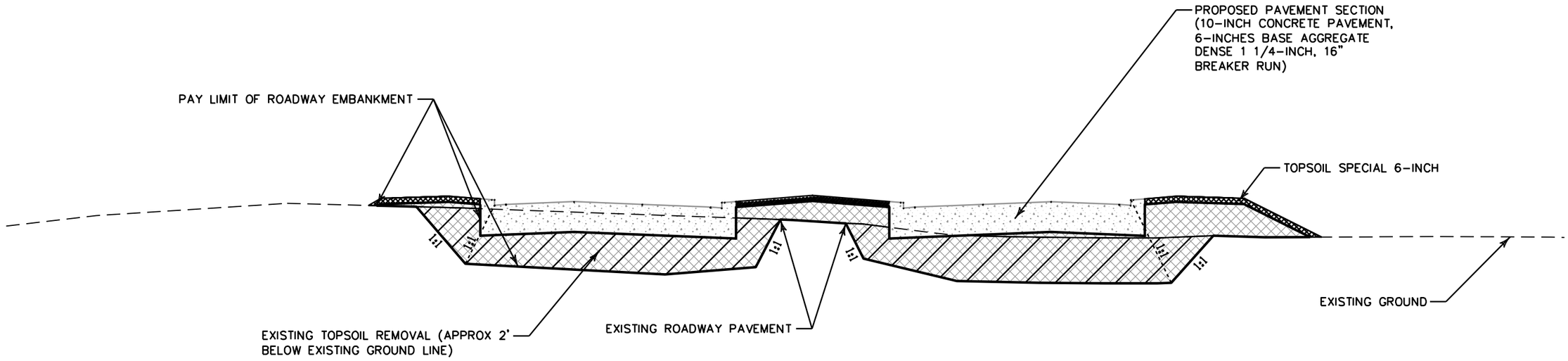
IN AREAS REQUIRING 2' OF FILL OR LESS, EBS EXCAVATION SPECIAL BELOW TOPSOIL LAYER AS DIRECTED BY THE ENGINEER, REPLACE WITH EBS BACKFILL SPECIAL.

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 25	E

LEGEND:

ROADWAY EMBANKMENT LIMITS

TOPSOIL REMOVAL



TOPSOIL REMOVAL DETAIL
(SUBGRADE IN PARTIAL CUT)

NOTES:

STRIP TOPSOIL FROM ROADWAY FOUNDATION. REPLACE WITH ROADWAY EMBANKMENT.

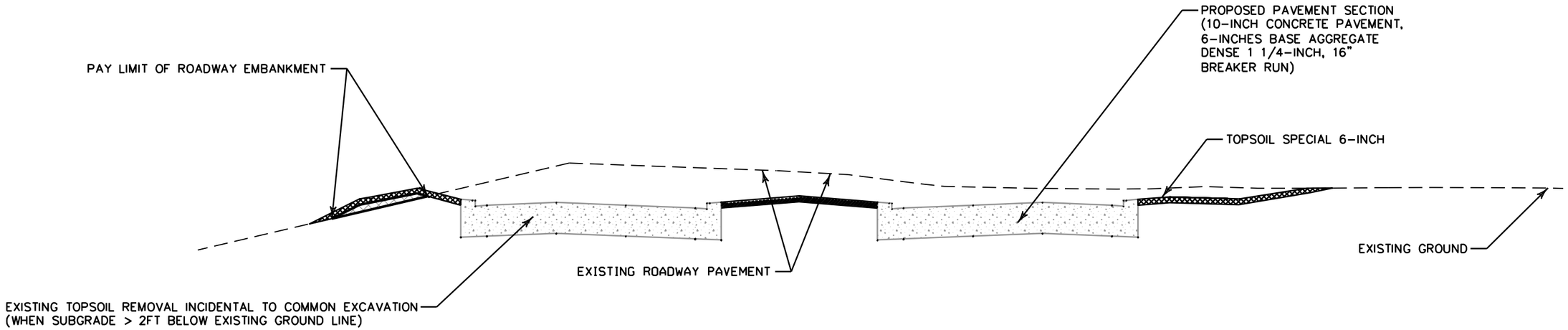
EXCESS TOPSOIL REMOVED NOT REQUIRED TO COVER SIDE SLOPES UNDER THE TOPSOIL SPECIAL BID ITEM TO BE PAID AS EXCAVATION COMMON.

THE TOPSOIL THICKNESS MAY BE INCREASED TO 12" OR AS DIRECTED BY THE ENGINEER TO UTILIZE EXCESS TOPSOIL.
TOPSOIL PLACED THICKER THAN 6" WILL BE PAID FOR UNDER THE ROADWAY EMBANKMENT BID ITEM.

IN AREAS REQUIRING 2' OF FILL OR LESS, EBS EXCAVATION SPECIAL BELOW TOPSOIL LAYER AS DIRECTED BY THE ENGINEER, REPLACE WITH EBS BACKFILL SPECIAL.

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 25A	E

2



TOPSOIL REMOVAL DETAIL
(SUBGRADE IN CUT)

NOTES:

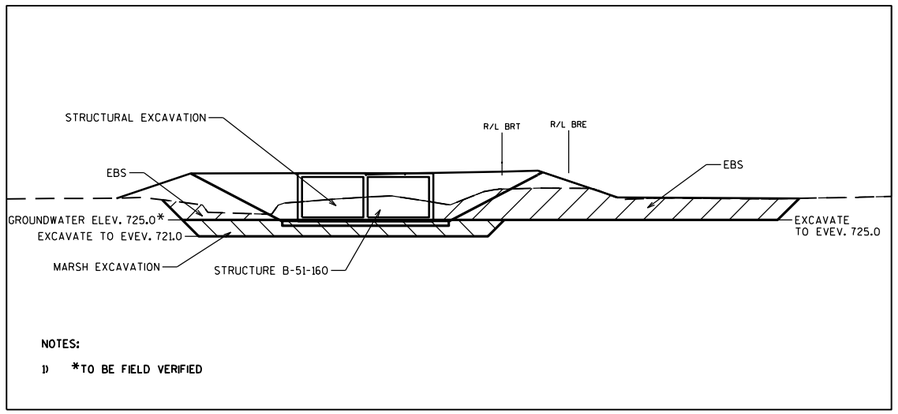
STRIP TOPSOIL FROM ROADWAY FOUNDATION. REPLACE WITH ROADWAY EMBANKMENT.

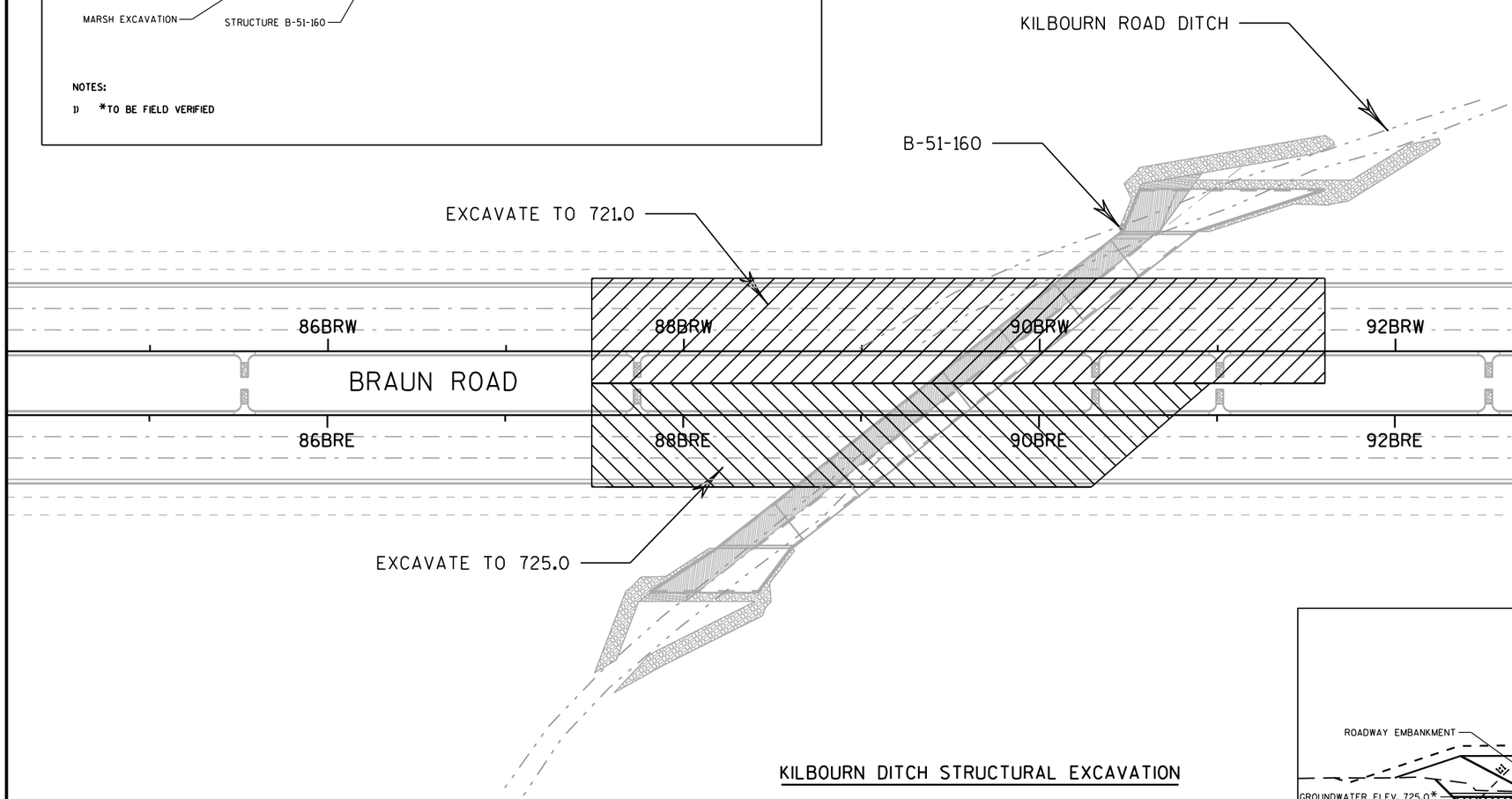
EXCESS TOPSOIL REMOVED NOT REQUIRED TO COVER SIDE SLOPES UNDER THE TOPSOIL SPECIAL BID ITEM TO BE PAID AS EXCAVATION COMMON.

THE TOPSOIL THICKNESS MAY BE INCREASED TO 12" OR AS DIRECTED BY THE ENGINEER TO UTILIZE EXCESS TOPSOIL.
TOPSOIL PLACED THICKER THAN 6" WILL BE PAID FOR UNDER THE ROADWAY EMBANKMENT BID ITEM.

IN AREAS REQUIRING 2' OF FILL OR LESS, EBS EXCAVATION SPECIAL BELOW TOPSOIL LAYER AS DIRECTED BY THE ENGINEER, REPLACE WITH EBS BACKFILL SPECIAL.

EXCAVATION TYPICAL SECTION





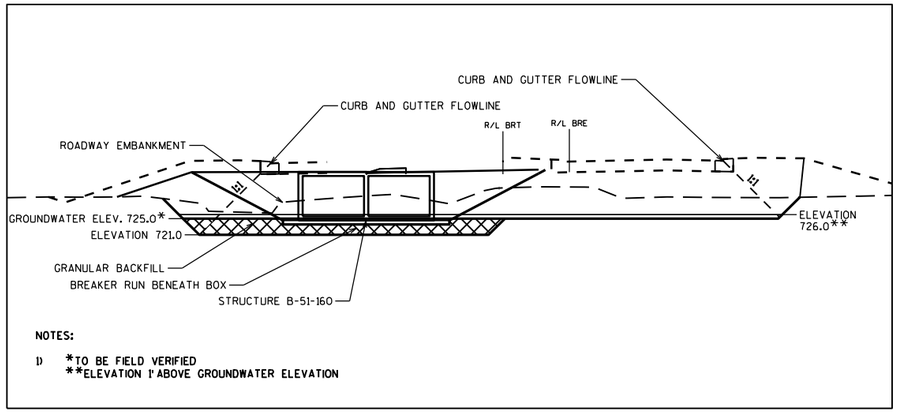
KILBOURN DITCH STRUCTURAL EXCAVATION

STRUCTURAL EXCAVATION

NOTES:

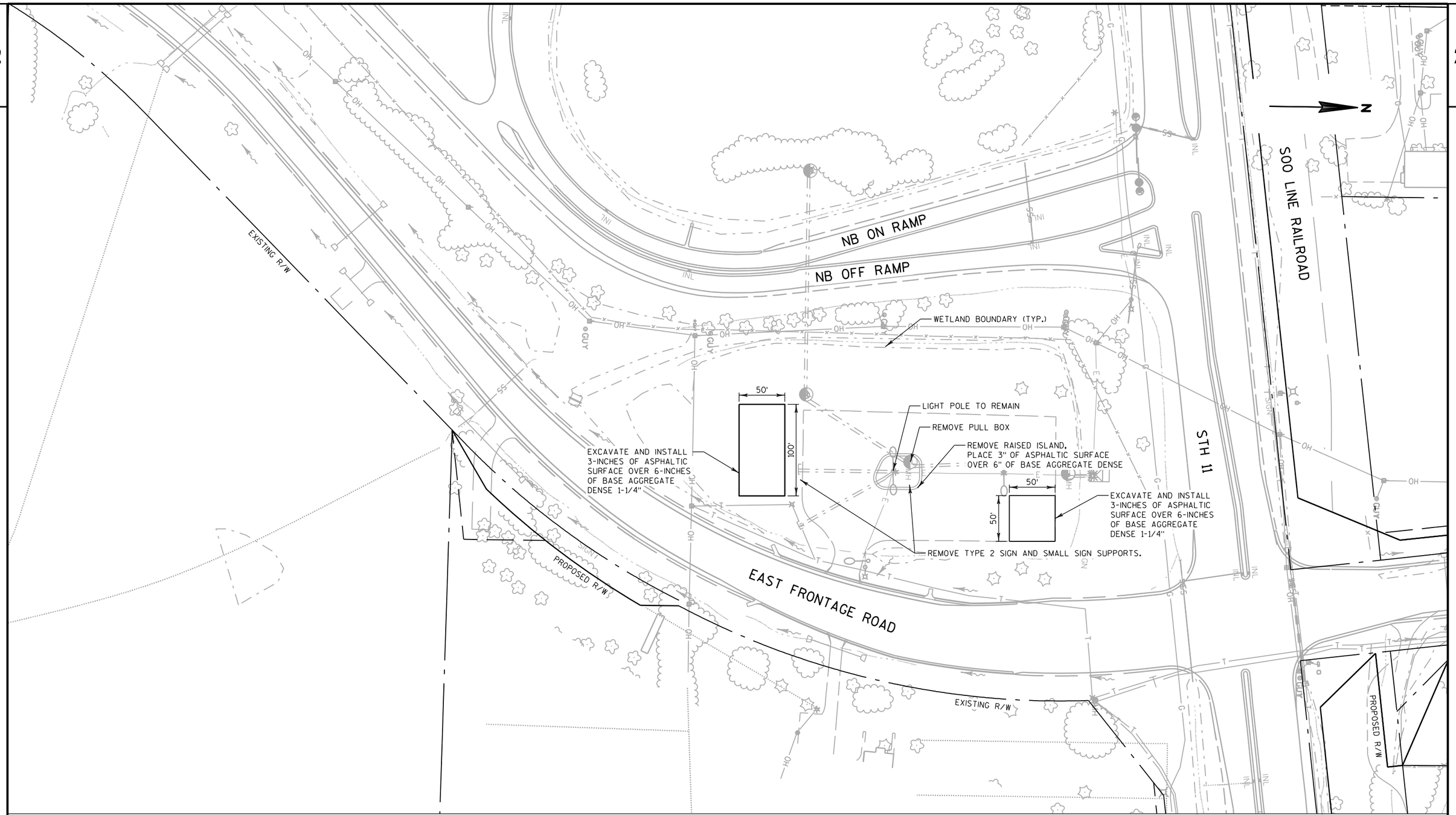
1) EXCAVATION DEPTHS VARY, SEE B-51-160 SOIL INVESTIGATION PLAN

BACKFILL TYPICAL SECTION



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 26	E

2



FIELD OFFICE LEFT IN PLACE SPECIAL PARKING LOT IMPROVEMENTS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 27	E

2

2

PARCEL 6 TO BE CLEAR BY 10/1/18

PARCEL 13 TO BE CLEAR BY 10/1/18

LEGEND	PARCEL AREA
DEMO PARCELS - ANTICIPATED TO BE CLEAR BY 9/1/18	
DEMO PARCELS - ANTICIPATED TO BE CLEAR BY 10/1/18	
NOT YET ACQUIRED TARGET ACQUIRE DATE 6/10/18	

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	REAL ESTATE STATUS	SHEET 27A	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.6_All-Parcel\DATE\Exhibit 23 2018 Real Estate-Status.dgn

PLOTTED BY : lucarlson PLOT NAME : PLOT SCALE : 521.539:1

WISDOT/CADDS SHEET 42

2

LEGEND

HAUL ROUTE

N

STH 20

CTH C

CTH V

FANCHER ROAD

STH 20

EAST FRONTAGE ROAD

IH 94

LOUIS SORENSON ROAD

INTERNATIONAL DRIVE

51ST DRIVE

56TH ROAD

58TH ROAD

58TH ROAD

CTH H 105TH STREET

EA

56TH ROAD

STH 11 DURAND AVENUE

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

AREA 2

STH 11 DURAND AVENUE

BRAUN ROAD

BRAUN ROAD

BRAUN ROAD

WEST FRONTAGE ROAD

IH 94

AREA 1

AREA 3

57ST DRIVE

CTH KR

CTH KR

144TH AVENUE

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

100TH AVENUE

CTH H 105TH STREET

31

7TH ST

7TH ST

7TH ST

7TH ST

NOTES

ALL HAUL ROUTES ARE SUBJECT TO CHANGE

PROJECT NO: 2704-09-70	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: HAUL ROUTES JUNE 1-JUNE 17, 2018	SHEET 27B	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.5_All-Contracts\4.5.6\Exhibits\Exh21R2018Details.dgn PLOT BY : aengbring PLOT NAME : PLOT SCALE : 3200:1

WISDOT/CADDS SHEET 42

2

LEGEND

HAUL ROUTE

N

STH 20

CTH C

CTH V

FANCHER ROAD

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

IH 94

STH 20

LOUIS SORENSON ROAD

INTERNATIONAL DRIVE

51ST DRIVE

56TH ROAD

58TH ROAD

58TH ROAD

CTH H

105TH STREET

EA

56TH ROAD

STH 11 DURAND AVENUE

STH 11 DURAND AVENUE

AREA 2

BRAUN ROAD

BRAUN ROAD

BRAUN ROAD

AREA 1

AREA 3

57ST DRIVE

CTH KR

CTH KR

144TH AVENUE

100TH AVENUE

CTH H

105TH STREET

31

7TH ST

7TH ST

7TH ST

7TH ST

NOTES

ALL HAUL ROUTES ARE SUBJECT TO CHANGE

PROJECT NO: 2704-09-70	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: HAUL ROUTES JUNE 18-JULY 31, 2018	SHEET 27C	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.5_All-Contracts\4.5_EOR_Exhibits\Exh21R2018Details.dgn PLOT BY : aengbring PLOT NAME : PLOT SCALE : 3200:1

WISDOT/CADDS SHEET 42

2

LEGEND

HAUL ROUTE

N

STH 20

CTH C

CTH V

FANCHER ROAD

STH 20

51ST DRIVE

IH 94

EAST FRONTAGE ROAD

LOUIS SORENSON ROAD

INTERNATIONAL DRIVE

56TH ROAD

CTH H

105TH STREET

EA

58TH ROAD

58TH ROAD

56TH ROAD

STH 11 DURAND AVENUE

STH 11 DURAND AVENUE

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

AREA 2

*BRAUN ROAD CLOSED FOR BOX CULVERT CONSTRUCTION

BRAUN ROAD

BRAUN ROAD

BRAUN ROAD

WEST FRONTAGE ROAD

IH 94

AREA 1

AREA 3

57ST DRIVE

CTH KR

CTH KR

144TH AVENUE

100TH AVENUE

CTH H

105TH STREET

31

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

7TH ST

7TH ST

7TH ST

7TH ST

NOTES

ALL HAUL ROUTES ARE SUBJECT TO CHANGE

PROJECT NO: 2704-09-70	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: HAUL ROUTES AUGUST 1-AUGUST 30, 2018	SHEET 27D	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.5_All-Contracts\4.5.6_Exhibits\Exhibit Details.dgn PLOT BY : aengbring PLOT NAME : PLOT SCALE : 3200:1

WISDOT/CADDS SHEET 42

LEGEND

HAUL ROUTE

N

STH 20

CTH C

CTH V

FANCHER ROAD

STH 20

51ST DRIVE

IH 94

EAST FRONTAGE ROAD

CTH H

105TH STREET

56TH ROAD

LOUIS SORENSON ROAD

INTERNATIONAL DRIVE

58TH ROAD

58TH ROAD

56TH ROAD

STH 11 DURAND AVENUE

STH 11 DURAND AVENUE

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

AREA 2

*BRAUN ROAD CLOSED FOR BOX CULVERT CONSTRUCTION

BRAUN ROAD

BRAUN ROAD

BRAUN ROAD

WEST FRONTAGE ROAD

IH 94

AREA 1

AREA 3

*CTH KR CLOSED AT KILBOURN ROAD DICTH

57ST DRIVE

CTH KR

CTH KR

144TH AVENUE

100TH AVENUE

CTH H

105TH STREET

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

31

7TH ST

7TH ST

7TH ST

7TH ST

NOTES

ALL HAUL ROUTES ARE SUBJECT TO CHANGE

PROJECT NO: 2704-09-70	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: HAUL ROUTES SEPTEMBER-NOVEMBER, 2018	SHEET 27E	E

2

LEGEND

HAUL ROUTE

N

STH 20

CTH C

CTH V

FANCHER ROAD

STH 20

EAST FRONTAGE ROAD

51ST DRIVE

IH 94

56TH ROAD

LOUIS SORENSON ROAD

INTERNATIONAL DRIVE

CTH H

105TH STREET

EA

58TH ROAD

58TH ROAD

56TH ROAD

STH 11 DURAND AVENUE

STH 11 DURAND AVENUE

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

AREA 2

BRAUN ROAD

BRAUN ROAD

BRAUN ROAD

WEST FRONTAGE ROAD

IH 94

57ST DRIVE

AREA 1

AREA 3

CTH KR

CTH KR

144TH AVENUE

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

100TH AVENUE

CTH H

105TH STREET

31

7TH ST

7TH ST

7TH ST

7TH ST

NOTES

ALL HAUL ROUTES ARE SUBJECT TO CHANGE

PROJECT NO: 2704-09-70	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: HAUL ROUTES WINTER 2018-SPRING 2019	SHEET 27F	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.5_All-Contracts\4.5.601xDMEts\Fig21R2018Details.dgn PLOT BY : aengbring PLOT NAME : PLOT SCALE : 3200:1

2

N

64BRW 66BRW 68BRW 70BRW 72BRW 74BRW 76BRW 78BRW

BRAUN ROAD

64BRE 66BRE 68BRE 70BRE 72BRE 74BRE 76BRE 78BRE

MATCHLINE 79BRE+00

R/L BRAUN ROAD WB

20LF REMOVING CULVERT PIPE

SLOPE INTERCEPT (TYP)

24LF REMOVING CULVERT PIPE

15LF REMOVING FENCE

SAWING ASPHALT

R/L BRAUN ROAD EB

21LF REMOVING CULVERT PIPE

POST

REMOVAL LEGEND

- CLEARING AND GRUBBING
- REMOVING CULVERT PIPE
- REMOVING FENCE
- SAWCUT

NOTES:

1. ALL EXISTING ASPHALT REMOVAL WILL BE PAID FOR AS COMMON EXCAVATION.
2. EXISTING RESIDENCES TO BE REMOVED BY OTHERS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	REMOVAL PLAN	SHEET 28	E

2

N

SLOPE INTERCEPT (TYP)

R/L BRAUN ROAD WB

23LF REMOVING CULVERT PIPE

52LF REMOVING REMOVING BEAMGUARD

36LF REMOVING CULVERT PIPE

MATCHLINE 79BRE+00

80BRW 82BRW 84BRW 86BRW 88BRW 90BRW 92BRW 94B

BRAUN ROAD

80BRE 82BRE 84BRE 86BRE 88BRE 90BRE 92BRE 94B

MATCHLINE 94BRE+00

POST

POST

20LF REMOVING CULVERT PIPE

GUY

GUY

170LF REMOVING CULVERT PIPE

51LF REMOVING REMOVING BEAMGUARD

R/L BRAUN ROAD EB

WETLAND BOUNDARY (TYP)

REMOVAL LEGEND

CLEARING AND GRUBBING

REMOVING CULVERT PIPE

REMOVING BEAMGUARD

NOTES:

1. ALL EXISTING ASPHALT REMOVAL WILL BE PAID FOR AS COMMON EXCAVATION.
2. EXISTING RESIDENCES TO BE REMOVED BY OTHERS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD.dwg PLOT DATE : 14 Jun 2018 2:17:02pm PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

2

N

ACCESS N3

2004N3A

2004N3B

2002N3A

2002N3B

R/L N3 SB

R/L N3 NB

SLOPE INTERCEPT (TYP)

R/L BRAUN ROAD WB

29LF REMOVING CULVERT PIPE

145LF REMOVING CULVERT PIPE

41LF REMOVING CULVERT PIPE

BRAUN ROAD

MATCHLINE 94BRE+00

MATCHLINE 109BRE+00

94BRW

96BRW

98BRW

100BRW

102BRW

104BRW

106BRW

108BRW

94BRE

96BRE

98BRE

100BRE

102BRE

104BRE

106BRE

108BRE

GUY

POST

1004FC1A

1004FC1B

28LF REMOVING CULVERT PIPE

30LF REMOVING CULVERT PIPE

21LF REMOVING CULVERT PIPE

R/L BRAUN ROAD EB

ACCESS FC1

1002FC1A

1002FC1B

R/L FC1 SB

R/L FC1 NB

WETLAND BOUNDARY (TYP)

NOTES:

1. ALL EXISTING ASPHALT REMOVAL WILL BE PAID FOR AS COMMON EXCAVATION.
2. EXISTING RESIDENCES TO BE REMOVED BY OTHERS

REMOVAL LEGEND

CLEARING AND GRUBBING

REMOVING CULVERT PIPE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	REMOVAL PLAN	SHEET 30	E

2

2

N

ACCESS N4

4002N4A

4002N4B

20LF REMOVING CULVERT PIPE

WHEATON LANE

SLOPE INTERCEPT (TYP)

R/L N4 SB

R/L N4 NB

105LF REMOVING CULVERT PIPE

R/L BRAUN ROAD WB

52LF REMOVING CULVERT PIPE

110BRW

112BRW

114BRW

116BRW

118BRW

120BRW

122BRW

BRAUN ROAD

42LF REMOVING CULVERT PIPE

MATCHLINE 109BRE+00

110BRE

112BRE

114BRE

116BRE

118BRE

120BRE

122BRE

MATCHLINE 124BRE+00

POST

GUY

20LF REMOVING CULVERT PIPE

3006FC2A

3006FC2B

WETLAND BOUNDARY (TYP)

R/L BRAUN ROAD EB

ACCESS FC2

R/L FC2 SB

R/L FC2 NB

3004FC2A

3004FC2B

3002FC2A

3002FC2B

REMOVAL LEGEND

CLEARING AND GRUBBING

REMOVING CULVERT PIPE

NOTES:

1. ALL EXISTING ASPHALT REMOVAL WILL BE PAID FOR AS COMMON EXCAVATION.
2. EXISTING RESIDENCES TO BE REMOVED BY OTHERS

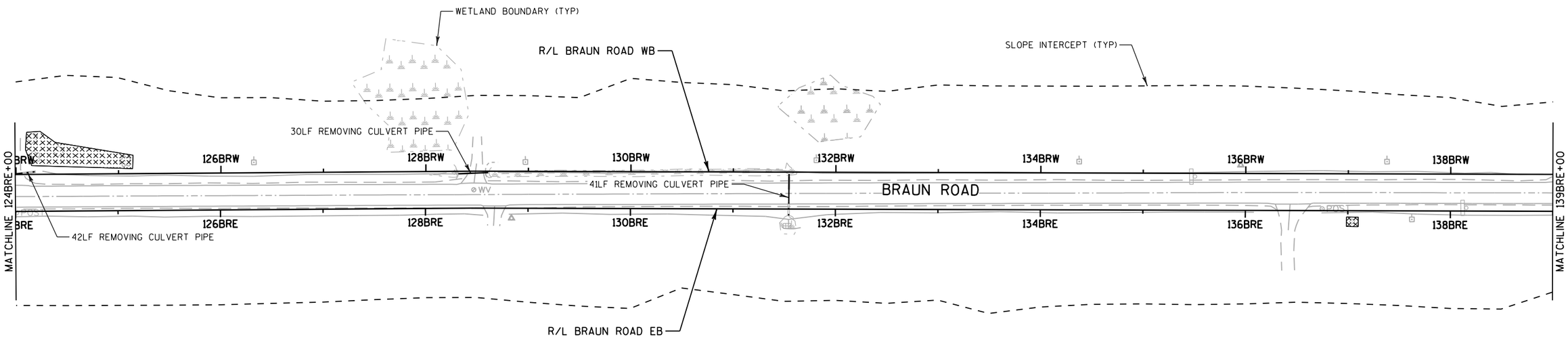
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704PLOT DATE: 11x26x2018 2:17:09 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N



NOTES:

1. ALL EXISTING ASPHALT REMOVAL WILL BE PAID FOR AS COMMON EXCAVATION.
2. EXISTING RESIDENCES TO BE REMOVED BY OTHERS

REMOVAL LEGEND

CLEARING AND GRUBBING

REMOVING CULVERT PIPE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	REMOVAL PLAN	SHEET 32	E

2

2

N

ACCESS N5

6004N5A

6004N5B

6002N5A

6002N5B

R/L N5 SB

R/L N5 NB

SLOPE INTERCEPT (TYP)

R/L BRAUN ROAD WB

44LF REMOVING CULVERT PIPE

SAWING ASPHALT

140BRW

142BRW

144BRW

146BRW

148BRW

150BRW

152BRW

154

BRAUN ROAD

MATCHLINE 139BRE+00

140BRE

142BRE

144BRE

146BRE

148BRE

150BRE

152BRE

154

MATCHLINE 154BRE+00

5004FC3A

5004FC3B

5002FC3A

5002FC3B

ACCESS FC3

R/L FC3 SB

R/L FC3 NB

R/L BRAUN ROAD EB

92LF REMOVING FENCE

86LF REMOVING FENCE

REMOVAL LEGEND

CLEARING AND GRUBBING

REMOVING CULVERT PIPE

xxxxx SAWCUT

NOTES:

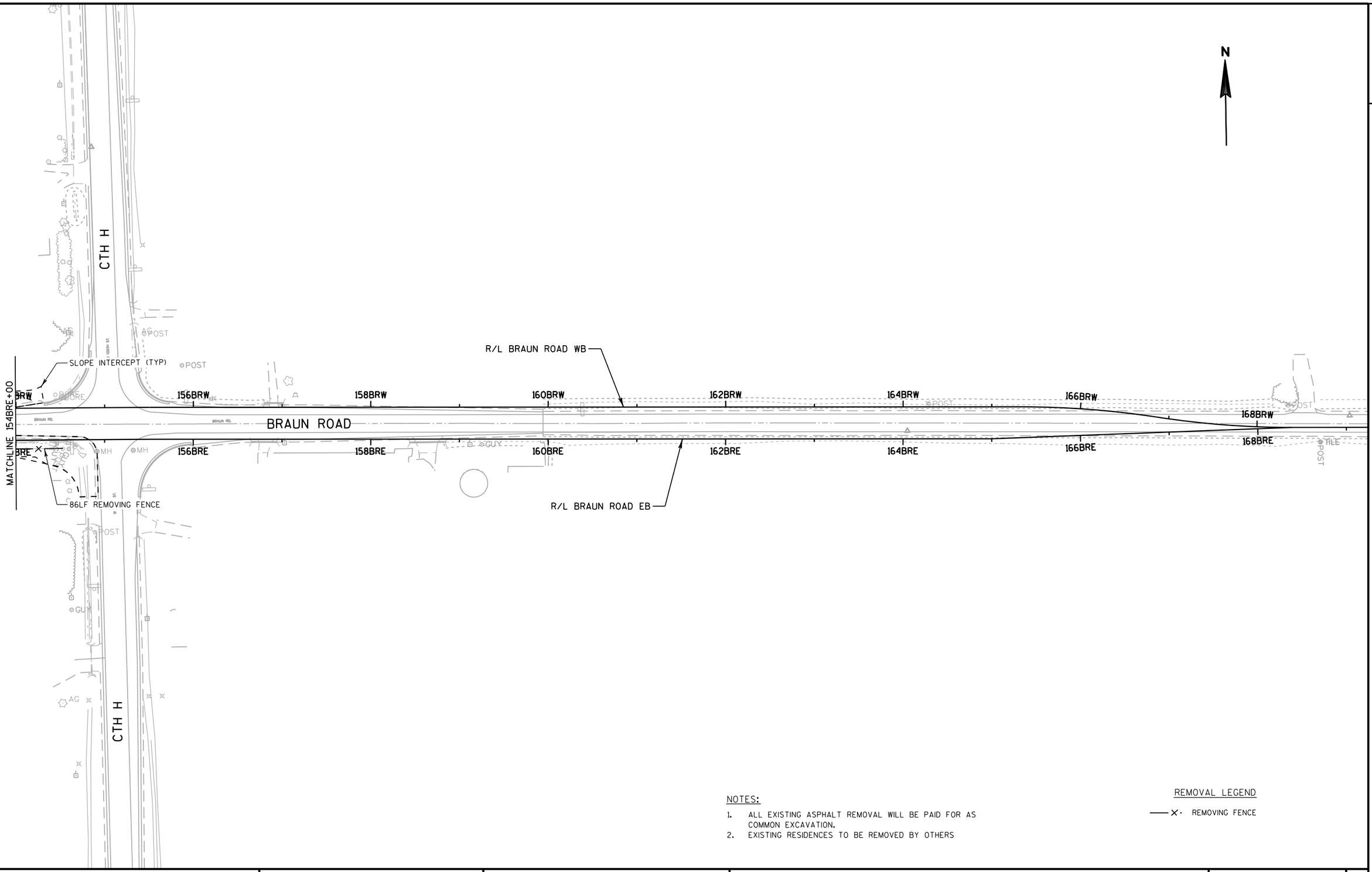
1. ALL EXISTING ASPHALT REMOVAL WILL BE PAID FOR AS COMMON EXCAVATION.
2. EXISTING RESIDENCES TO BE REMOVED BY OTHERS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOTTED : 11/26/2018 3:17:17 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2



NOTES:

1. ALL EXISTING ASPHALT REMOVAL WILL BE PAID FOR AS COMMON EXCAVATION.
2. EXISTING RESIDENCES TO BE REMOVED BY OTHERS

REMOVAL LEGEND

—— X - REMOVING FENCE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	REMOVAL PLAN	SHEET 34	E

2

CONSTRUCTED BY OTHERS

N

TYPE 6- MODIFIED

100BRE+13.01
55.75' RT
744.59

100BRE+13.93
54.81' RT
744.61

100BRE+19.52
49.13' RT
745.02

100BRE+19.80
38.70' RT
744.92

100BRE+29.79
39.48' RT
745.04

100BRE+29.82
38.28' RT
745.02

100BRE+29.61
46.00' RT
745.18

100BRE+20.71
62.18' RT
744.55

100BRE+26.79
56.00' RT
744.99

100BRE+29.61
56.00' RT
745.03

100BRE+36.35
56.00' RT
744.80

100BRE+36.35
46.00' RT
744.95

744.55
744.51
745.03
745.11
744.88
745.03
5.1%
1.0%
5.1%
0.3%
5.1%
1.4%
1.5%
2.2%
3.4%
3.4%

100BRE

BRAUN RD

100BRW

100BRE+20.91
2.00' LT
744.72

100BRE+20.93
2.77' LT
744.73

100BRE+30.91
2.00' LT
744.80

100BRE+21.16
11.25' LT
745.03

100BRE+21.39
19.73' LT
744.85

100BRE+21.54
25.21' LT
744.78

100BRE+31.40
20.03' LT
744.76

100BRE+31.16
10.98' LT
744.93

744.80
744.88
744.87
744.85
3.5%
2.1%
2.0%
1.5%
2.0%

TYPE 5 MODIFIED

100BRW+09.68
46.00' LT
745.91

100BRW+22.68
46.00' LT
745.33

100BRW+22.48
38.77' LT
745.22

100BRW+22.46
38.00' LT
745.21

100BRW+32.47
38.00' LT
745.29

100BRW+32.68
46.00' LT
745.44

100BRW+48.68
46.00' LT
746.22

100BRW+88.70
46.00' LT
746.10

100BRW+88.51
38.77' LT
745.74

100BRW+88.49
38.00' LT
745.73

100BRW+98.49
38.00' LT
745.81

100BRW+98.71
46.00' LT
746.20

101BRW+13.71
46.00' LT
746.73

100BRW+09.68
56.00' LT
745.76

100BRW+22.68
56.00' LT
745.18

100BRW+32.68
56.00' LT
745.29

100BRW+48.68
56.00' LT
746.07

100BRW+78.70
46.00' LT
746.45

100BRW+78.70
56.00' LT
746.30

100BRW+88.70
56.00' LT
745.95

100BRW+98.71
56.00' LT
746.05

101BRW+13.71
56.00' LT
746.58

745.29
745.37
745.18
745.29
1.5%
1.5%
4.5%
4.5%
1.5%
1.5%
1.1%
1.1%
2.0%
1.5%
4.9%
4.9%
1.5%
3.5%
3.5%
5.0%
1.5%
1.0%
1.0%
5.2%
1.5%
3.5%
3.5%
1.5%

TYPE 3- MODIFIED

TYPE 3- MODIFIED

1003FC1A

1003FC1B

1004FC1A

100

100BRE+79.60
46.00' RT
745.24

TYPE 6- MODIFIED

100BRE+79.91
56.00' RT
745.08

100BRE+85.63
56.00' RT
745.47

100BRE+88.30
56.00' RT
745.51

100BRE+93.20
58.59' RT
745.38

100BRE+95.67
59.89' RT
745.34

100BRE+98.32
49.99' RT
745.50

100BRE+80.41
46.00' RT
745.25

100BRE+85.63
46.00' RT
745.55

100BRE+85.85
38.00' RT
745.47

100BRE+95.85
38.00' RT
745.55

100BRE+95.56
48.53' RT
745.65

745.18
745.33
745.55
745.30
745.46
745.63
6.8
5.0
0.8%
1.0%
2.3%
4.3%
6.8
1.0%
1.0%

101BRE

TYPE 5

100BRW+87.18
10.00' RT
745.19

100BRW+97.17
10.00' RT
745.35

100BRW+87.40
2.00' RT
745.48

100BRW+97.40
2.00' RT
745.56

745.27
745.43
745.56
745.64
3.6%
2.6%

101E

101BRE+13.99
69.58' RT
745.17

101BRE+15.37
70.31' RT
745.19

101BRE+21.06
73.31' RT
745.45

101BRE+29.90
77.98' RT
745.60

101BRE+34.25
71.80' RT
745.70

101BRE+19.59
61.23' RT
745.30

101BRE+26.86
65.06' RT
745.55

745.25
745.38
4.0%
1.5%
1.0%
3.0%
1.3%
1.5%

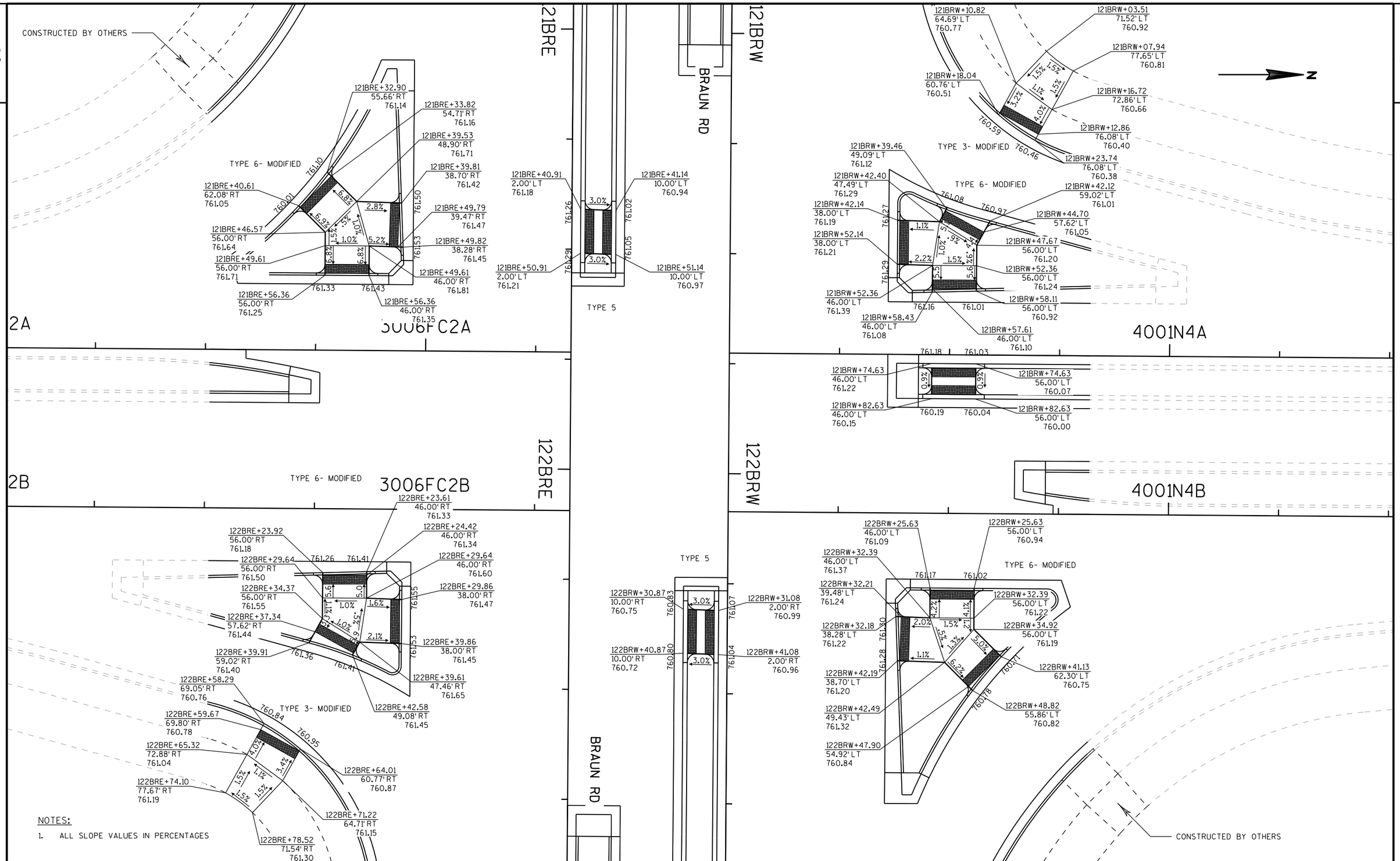
TYPE 3- MODIFIED

BRAUN RD

NOTES:

1. ALL SLOPE VALUES IN PERCENTAGES

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CURB RAMP DETAILS	SHEET 35	E


2
CONSTRUCTED BY OTHERS
121BRE
121BRW
BRAUN RD
121BRE+32.90
55.66' RT
761.14
121BRE+33.82
54.71' RT
761.16
121BRE+39.53
48.90' RT
761.71
TYPE 6- MODIFIED
121BRE+39.81
38.70' RT
761.42
121BRE+40.61
62.08' RT
761.05
121BRE+49.79
39.47' RT
761.47
121BRE+46.57
56.00' RT
761.64
121BRE+49.82
38.28' RT
761.45
121BRE+49.61
56.00' RT
761.71
121BRE+49.61
46.00' RT
761.81
121BRE+56.36
56.00' RT
761.25
121BRE+56.36
46.00' RT
761.35
2A
3006FC2A
121BRE+40.91
2.00' LT
761.18
121BRE+41.14
10.00' LT
760.94
121BRE+50.91
2.00' LT
761.21
121BRE+51.14
10.00' LT
760.97
TYPE 5
121BRW+10.82
64.69' LT
760.77
121BRW+03.51
71.52' LT
760.92
121BRW+07.94
77.65' LT
760.81
121BRW+18.04
60.76' LT
760.51
121BRW+16.72
72.86' LT
760.66
121BRW+12.86
76.08' LT
760.40
TYPE 3- MODIFIED
121BRW+23.74
76.08' LT
760.38
121BRW+39.46
49.09' LT
761.12
121BRW+42.40
47.49' LT
761.29
TYPE 6- MODIFIED
121BRW+42.12
59.02' LT
761.01
121BRW+42.14
38.00' LT
761.19
121BRW+44.70
57.62' LT
761.05
121BRW+52.14
38.00' LT
761.21
121BRW+47.67
56.00' LT
761.20
121BRW+52.36
56.00' LT
761.24
121BRW+52.36
46.00' LT
761.39
121BRW+58.11
56.00' LT
760.92
121BRW+58.43
46.00' LT
761.08
121BRW+57.61
46.00' LT
761.10
4001N4A
121BRW+74.63
46.00' LT
761.22
121BRW+74.63
56.00' LT
760.07
121BRW+82.63
46.00' LT
760.15
121BRW+82.63
56.00' LT
760.00
122BRE
122BRW
2B
TYPE 6- MODIFIED
3006FC2B
122BRE+23.61
46.00' RT
761.33
122BRE+23.92
56.00' RT
761.18
122BRE+24.42
46.00' RT
761.34
122BRE+29.64
56.00' RT
761.50
122BRE+29.64
46.00' RT
761.60
122BRE+34.37
56.00' RT
761.55
122BRE+29.86
38.00' RT
761.47
122BRE+37.34
57.62' RT
761.44
122BRE+39.86
38.00' RT
761.45
122BRE+39.91
59.02' RT
761.40
122BRE+39.61
47.46' RT
761.65
122BRE+42.58
49.08' RT
761.45
122BRE+58.29
69.05' RT
760.76
TYPE 3- MODIFIED
122BRE+59.67
69.80' RT
760.78
122BRE+65.32
72.88' RT
761.04
122BRE+64.01
60.77' RT
760.87
122BRE+74.10
77.67' RT
761.19
122BRE+71.22
64.71' RT
761.15
122BRE+78.52
71.54' RT
761.30
BRAUN RD
TYPE 5
122BRW+30.87
10.00' RT
760.75
122BRW+31.08
2.00' RT
760.99
122BRW+40.87
10.00' RT
760.72
122BRW+41.08
2.00' RT
760.96
4001N4B
122BRW+25.63
46.00' LT
761.09
122BRW+25.63
56.00' LT
760.94
122BRW+32.39
46.00' LT
761.37
TYPE 6- MODIFIED
122BRW+32.21
39.48' LT
761.24
122BRW+32.39
56.00' LT
761.22
122BRW+32.18
38.28' LT
761.22
122BRW+34.92
56.00' LT
761.19
122BRW+42.19
38.70' LT
761.20
122BRW+41.13
62.30' LT
760.75
122BRW+42.49
49.43' LT
761.32
122BRW+48.82
55.86' LT
760.82
122BRW+47.90
54.92' LT
760.84
CONSTRUCTED BY OTHERS
NOTES:
1. ALL SLOPE VALUES IN PERCENTAGES
PROJECT NO: 2704-09-70
HWY: BRAUN ROAD
COUNTY: RACINE
CURB RAMP DETAILS
SHEET 36
E
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040
PLOT BY : dbaumann
PLOT NAME :
PLOT SCALE : 20:1
WISDOT/CADDS SHEET 42

2

CONSTRUCTED BY OTHERS

N

TYPE 6- MODIFIED

142BRE+01.76
55.75' RT
748.99

142BRE+02.68
54.81' RT
749.01

142BRE+08.27
49.13' RT
749.09

142BRE+08.56
38.70' RT
748.92

142BRE+09.46
62.18' RT
748.68

142BRE+18.54
39.48' RT
748.70

142BRE+15.54
56.00' RT
748.89

142BRE+18.57
38.28' RT
748.68

142BRE+18.36
56.00' RT
748.85

142BRE+18.36
46.00' RT
748.91

142BRE+25.10
56.00' RT
748.38

142BRE+25.10
46.00' RT
748.48

748.95
748.64
748.46
748.56
749.00
748.76

4.0%
2.4%
2.0%
1.5%
1.7%
.6%
1.6%
3.0%
7.0%
6.4%

003FC3A

5004FC3A

003FC3B

5004FC3B

BRAUN RD

142BRE+09.68
2.77' LT
748.67

142BRE+09.66
2.00' LT
748.66

142BRE+10.14
19.73' LT
748.29

142BRE+10.29
25.21' LT
748.24

142BRE+19.68
2.50' LT
748.42

142BRE+20.16
20.03' LT
747.90

748.74
748.50
748.32
747.98

2.2%
3.0%

TYPE 5

142BRW

142BRE+68.35
46.00' RT
747.04

142BRE+68.66
56.00' RT
746.86

TYPE 6- MODIFIED

142BRE+74.38
46.00' RT
747.22

142BRE+74.38
56.00' RT
747.07

746.94
747.12

142BRE+79.11
56.00' RT
747.00

142BRE+74.60
38.00' RT
747.20

142BRE+84.63
59.00' RT
746.76

142BRE+84.63
59.00' RT
746.93

142BRE+84.60
38.00' RT
747.01

142BRE+84.35
47.46' RT
747.07

746.85
746.90
747.09
747.28

3.7%
3.0%
1.5%
1.5%
1.5%
0.1%
0.6%

143BRE+03.03
69.03' RT
745.76

TYPE 3- MODIFIED

142BRE+87.32
49.08' RT
746.94

745.84
745.88

143BRE+04.41
69.78' RT
745.78

143BRE+10.06
72.86' RT
746.04

143BRE+08.74
60.76' RT
745.80

143BRE+18.84
77.65' RT
746.19

143BRE+15.96
64.69' RT
746.15

143BRE+23.26
71.52' RT
746.30

4.0%
4.3%
1.5%
.9%
1.5%
1.5%

143BRE

BRAUN RD

TYPE 5

142BRW+76.20
2.00' RT
746.81

142BRW+75.98
10.00' RT
746.57

142BRW+85.98
10.00' RT
746.33

142BRW+86.20
2.00' RT
746.57

746.65
746.89
746.41
746.65

3.0%
3.0%

143BRW

141BRW+91.47
46.00' LT
749.90

141BRW+91.47
56.00' LT
749.75

142BRW+11.47
46.00' LT
748.91

142BRW+11.47
56.00' LT
748.76

142BRW+11.28
38.77' LT
748.63

142BRW+11.26
38.00' LT
748.62

TYPE 3

142BRW+21.27
38.50' LT
748.38

142BRW+21.48
56.00' LT
748.61

142BRW+21.48
46.00' LT
748.76

142BRW+31.48
46.00' LT
748.93

142BRW+31.48
56.00' LT
748.78

748.70
748.46

5.0%
5.0%
3.9%
1.5%
1.5%
1.5%
1.5%
1.5%
3.4%
3.4%

142BRW+57.50
46.00' LT
748.30

142BRW+57.50
56.00' LT
748.15

142BRW+77.50
46.00' LT
747.34

142BRW+77.30
38.77' LT
747.04

142BRW+77.28
38.00' LT
747.03

142BRW+77.50
56.00' LT
747.19

TYPE 3

747.11
746.87

4.8%
4.8%
4.1%
5.0%
1.5%
1.5%
1.5%
1.5%
1.5%

142BRW+87.28
38.00' LT
746.79

142BRW+87.50
46.00' LT
747.19

142BRW+87.50
56.00' LT
747.04

142BRW+97.50
46.00' LT
747.34

142BRW+97.50
56.00' LT
747.19

NOTES:

1. ALL SLOPE VALUES IN PERCENTAGES

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CURB RAMP DETAILS	SHEET 37	E

2

N

SLOPE INTERCEPT (TYP.)

BEGIN CONSTRUCTION
STA 71BRW+75.05
X=596299.98
Y=170368.00

FUTURE PATH GRADING

CG06

CP20

BRW+63.65
48.00' LT

8:1

WETLAND BOUNDARY (TYP.)

BRW+59.25
0.00

69BRW 70BRW 71BRW 72BRW 73BRW 74BRW 75

BEGIN PROJECT 2704-09-70
STA 71BRE+75.00
X=596298.89
Y=170320.01

CG02

R/L BRAUN ROAD WB

BRAUN ROAD

BRW+59.25
12.00' RT

BRW+75.74
36.00' RT

8:1

R/L BRAUN ROAD EB

69BRE 70BRE 71BRE 72BRE 73BRE 74BRE 75

MATCHLINE 75BRE+00

12'

PROP R/W

TLE

FUTURE PATH GRADING

DITCH BOTTOM (TYP)

TLE

PAVEMENT DETAIL LEGEND

CG02 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A

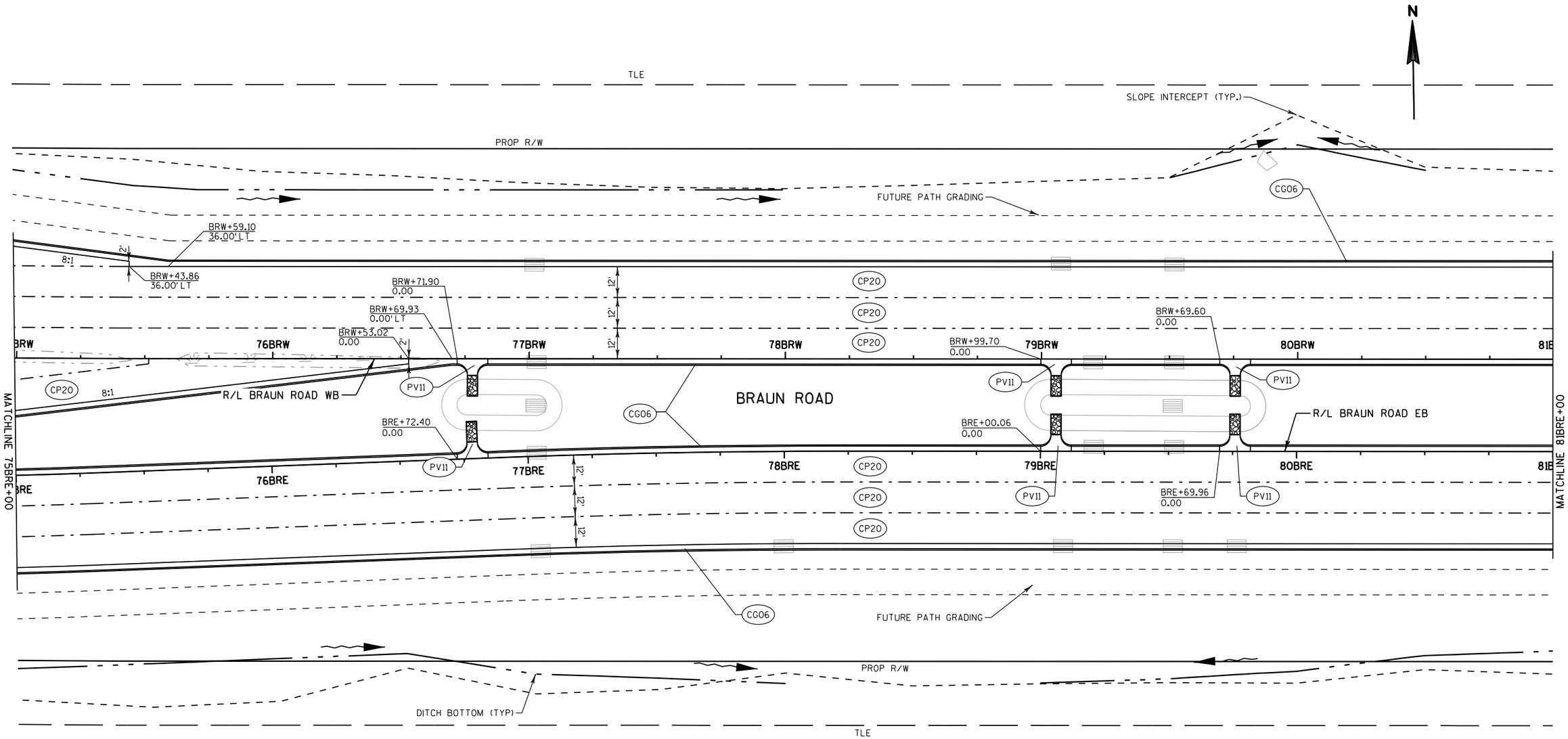
CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A

CP20 CONCRETE PAVEMENT 10-INCH, DOWELED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET 38	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\t18x28x2018 01:34:52pm PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

2



PAVEMENT DETAIL LEGEND

- CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- CP20 CONCRETE PAVEMENT 10-INCH, DOWELED
- PV11 CONCRETE SURFACE DRAINS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET 39	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\18x28x2018 02:34:54grPM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

2

N

TLE

PROP R/W

SLOPE INTERCEPT (TYP.)

DITCH BOTTOM (TYP)

FUTURE PATH GRADING

CG06

12'
12'
12'

CP20
CP20
CP20

BRW+55.63
0.00

BRW+47.10
0.00

82BRW 83BRW 84BRW 85BRW 86BRW

PV11
PV11

R/L BRAUN ROAD WB

WETLAND BOUNDARY (TYP.)

R/L BRAUN ROAD EB

BRAUN ROAD

CG06

PV11
PV11

MATCHLINE 81BRE+00

BRE+55.98
0.00

BRE+47.46
0.00

82BRE 83BRE 84BRE 85BRE 86BRE

MATCHLINE 87BRE+00

12'
12'
12'

CP20
CP20
CP20

CG06

FUTURE PATH GRADING

PROP R/W

TLE

PAVEMENT DETAIL LEGEND

CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A

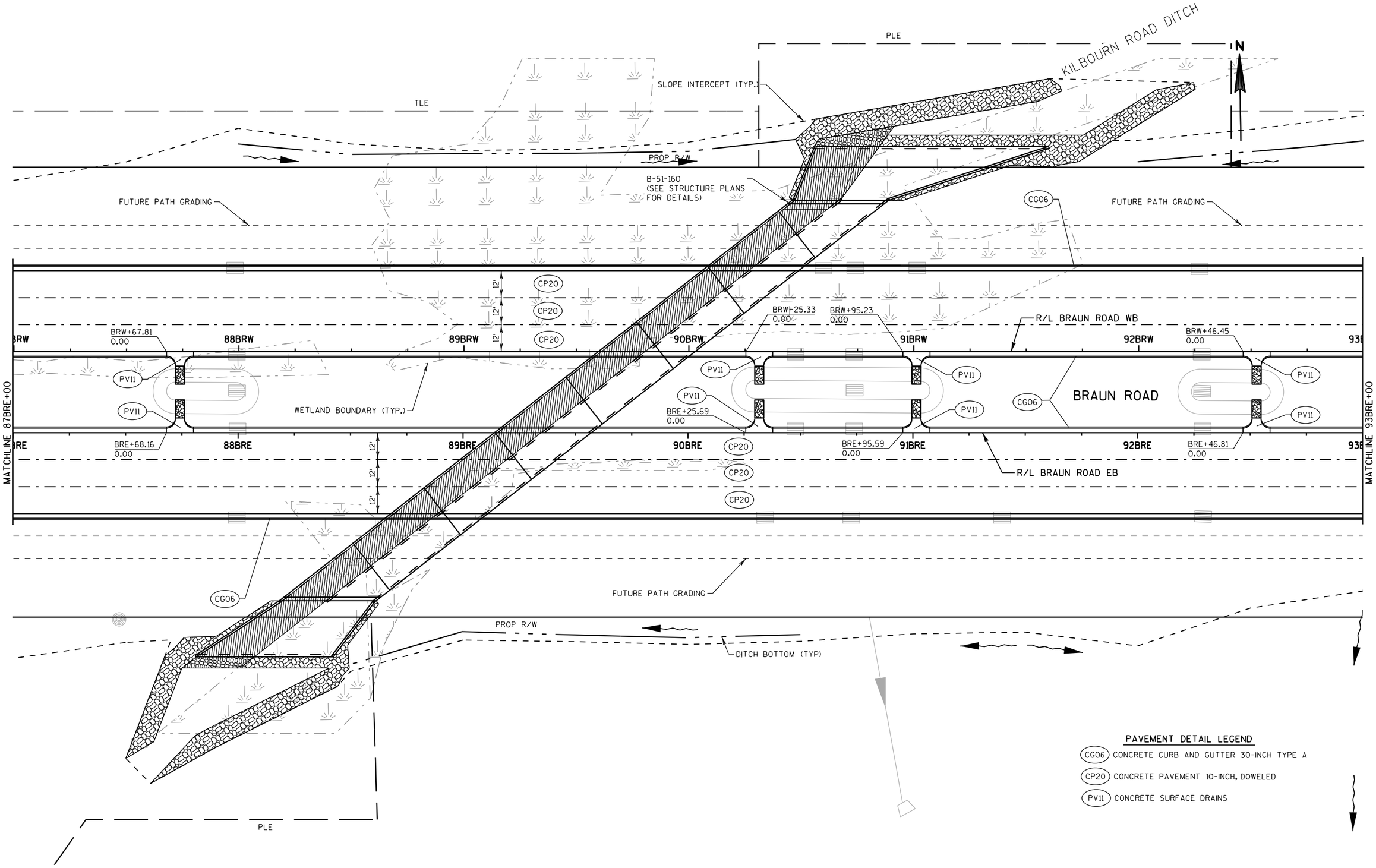
CP20 CONCRETE PAVEMENT 10-INCH, DOWELED

PV11 CONCRETE SURFACE DRAINS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET 40	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704PLOT DATE: 10/28/2021 3:34:57 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

2



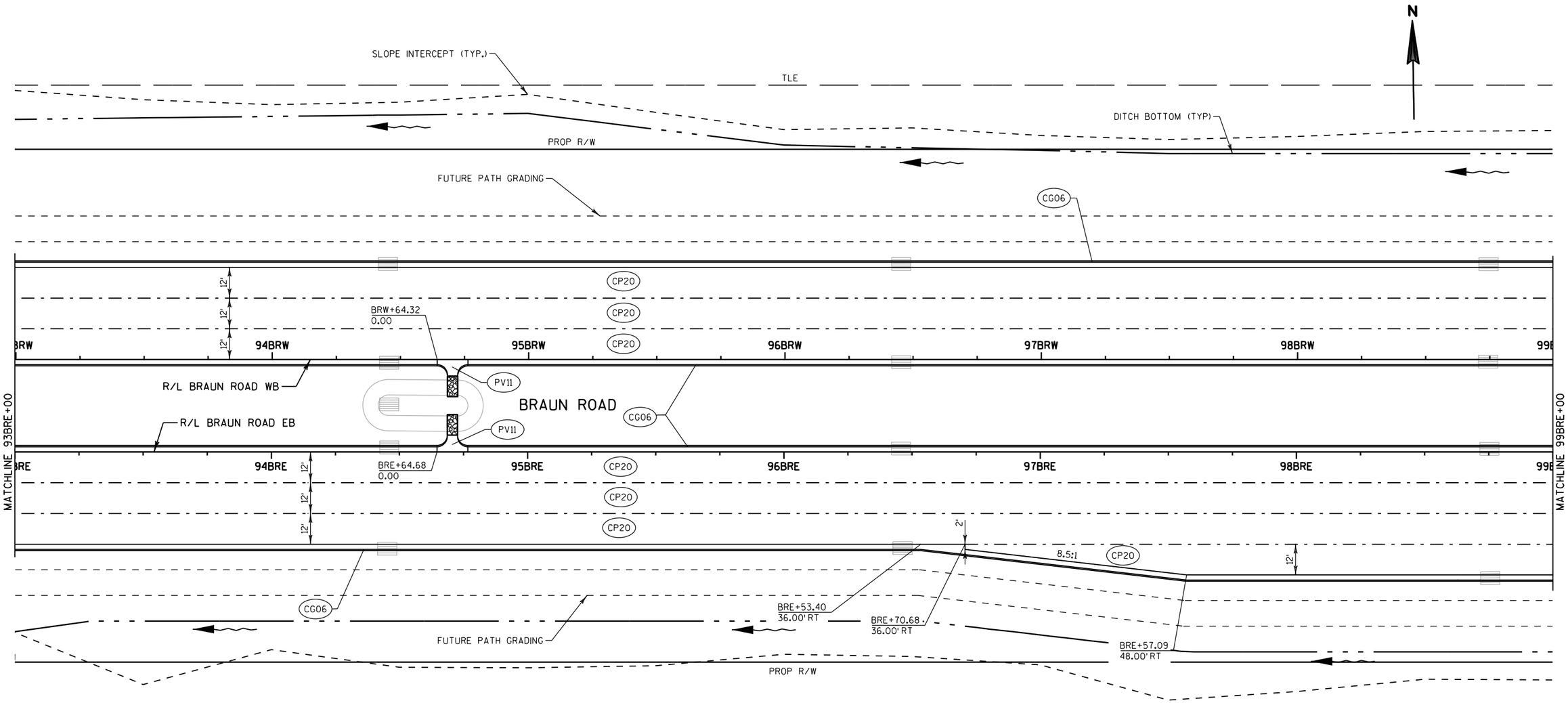
PAVEMENT DETAIL LEGEND

- CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- CP20 CONCRETE PAVEMENT 10-INCH, DOWELED
- PV11 CONCRETE SURFACE DRAINS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET 41	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBDAUN\18x28x2018-1.35.dgn PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

2



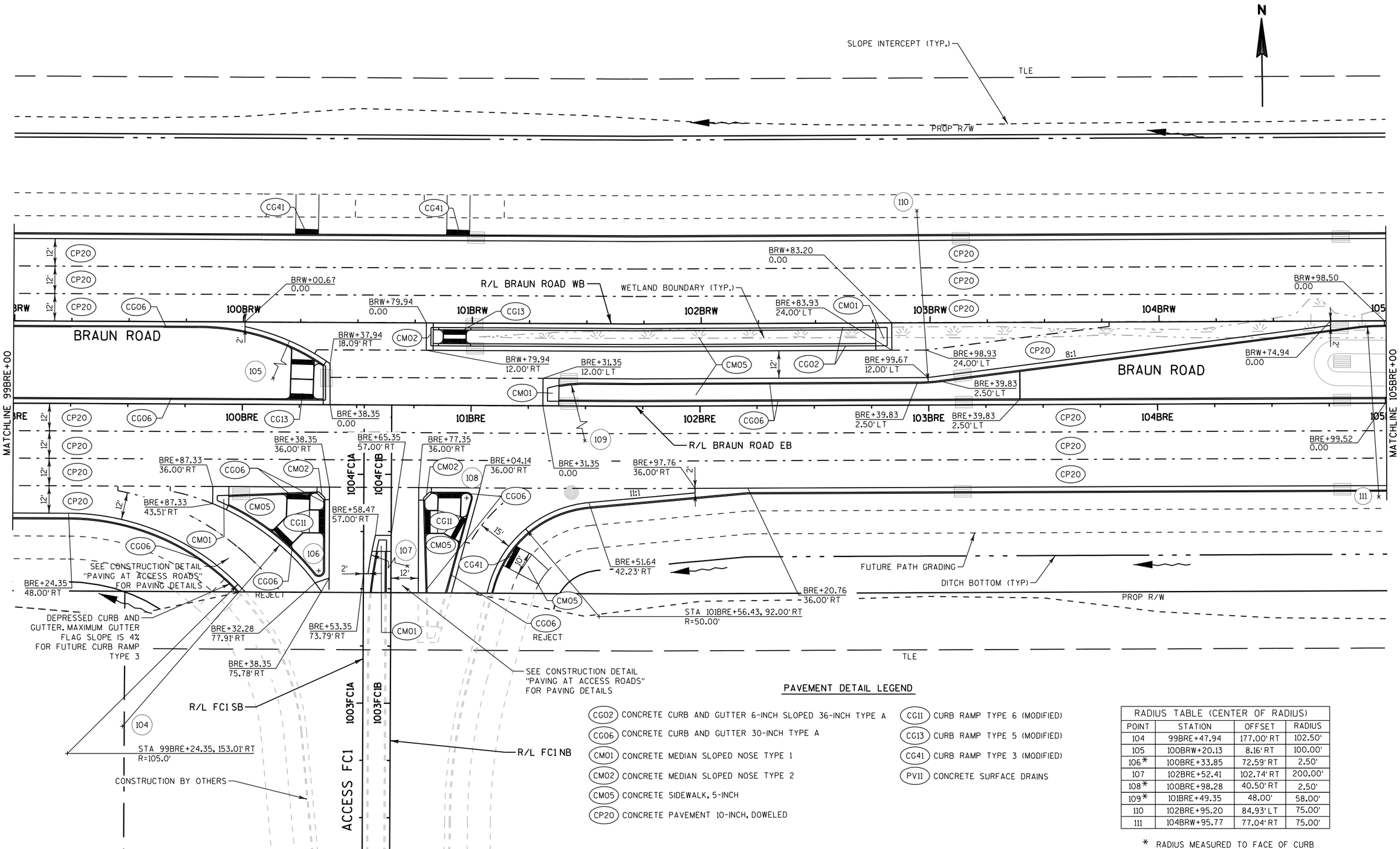
PAVEMENT DETAIL LEGEND

- (CG02) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A
- (CG06) CONCRETE CURB AND GUTTER 30-INCH TYPE A
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM05) CONCRETE SIDEWALK, 5-INCH
- (CP20) CONCRETE PAVEMENT 10-INCH, DOWELED
- (PV11) CONCRETE SURFACE DRAINS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET 42	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040PLOT DATE: 11/28/2018 5:35:04 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1
WISDOT/CADDS SHEET 42

2



PAVEMENT DETAIL LEGEND

CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A	CG11	CURB RAMP TYPE 6 (MODIFIED)
CG06	CONCRETE CURB AND GUTTER 30-INCH TYPE A	CG13	CURB RAMP TYPE 5 (MODIFIED)
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CG41	CURB RAMP TYPE 3 (MODIFIED)
CM02	CONCRETE MEDIAN SLOPED NOSE TYPE 2	PV11	CONCRETE SURFACE DRAINS
CM05	CONCRETE SIDEWALK, 5-INCH		
CP20	CONCRETE PAVEMENT 10-INCH, DOWELED		

RADIUS TABLE (CENTER OF RADIUS)			
POINT	STATION	OFFSET	RADIUS
104	99BRE+47.94	177.00' RT	102.50'
105	100BRW+20.13	8.16' RT	100.00'
106*	100BRE+33.85	72.59' RT	2.50'
107	102BRE+52.41	102.74' RT	200.00'
108*	100BRE+98.28	40.50' RT	2.50'
109*	101BRE+49.35	48.00'	58.00'
110	102BRE+95.20	84.93' LT	75.00'
111	104BRW+95.77	77.04' RT	75.00'

* RADIUS MEASURED TO FACE OF CURB

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET 43	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040901BRAUN_1828_20181031_35.07.rpm PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

2

N

TLE

TLE

SLOPE INTERCEPT (TYP.)

PROP R/W

DITCH BOTTOM (TYP)

FUTURE PATH GRADING

CG06

CP20

CP20

CP20

12'

12'

12'

BRW

106BRW

BRW+97.71
0.00

107BRW

108BRW

BRW+28.16
0.00

109BRW

110BRW

111B

PV11

PV11

PV11

PV11

PV11

CG06

R/L BRAUN ROAD EB

BRAUN ROAD

WETLAND BOUNDARY (TYP.)

R/L BRAUN ROAD WB

MATCHLINE 105BRE+00

MATCHLINE 111BRE+00

BRE

106BRE

BRE+98.33
0.00

107BRE

108BRE

109BRE

BRE+28.77
0.00

110BRE

111B

CP20

CP20

CP20

12'

12'

12'

CG06

FUTURE PATH GRADING

PROP R/W

TLE

PAVEMENT DETAIL LEGEND

CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A

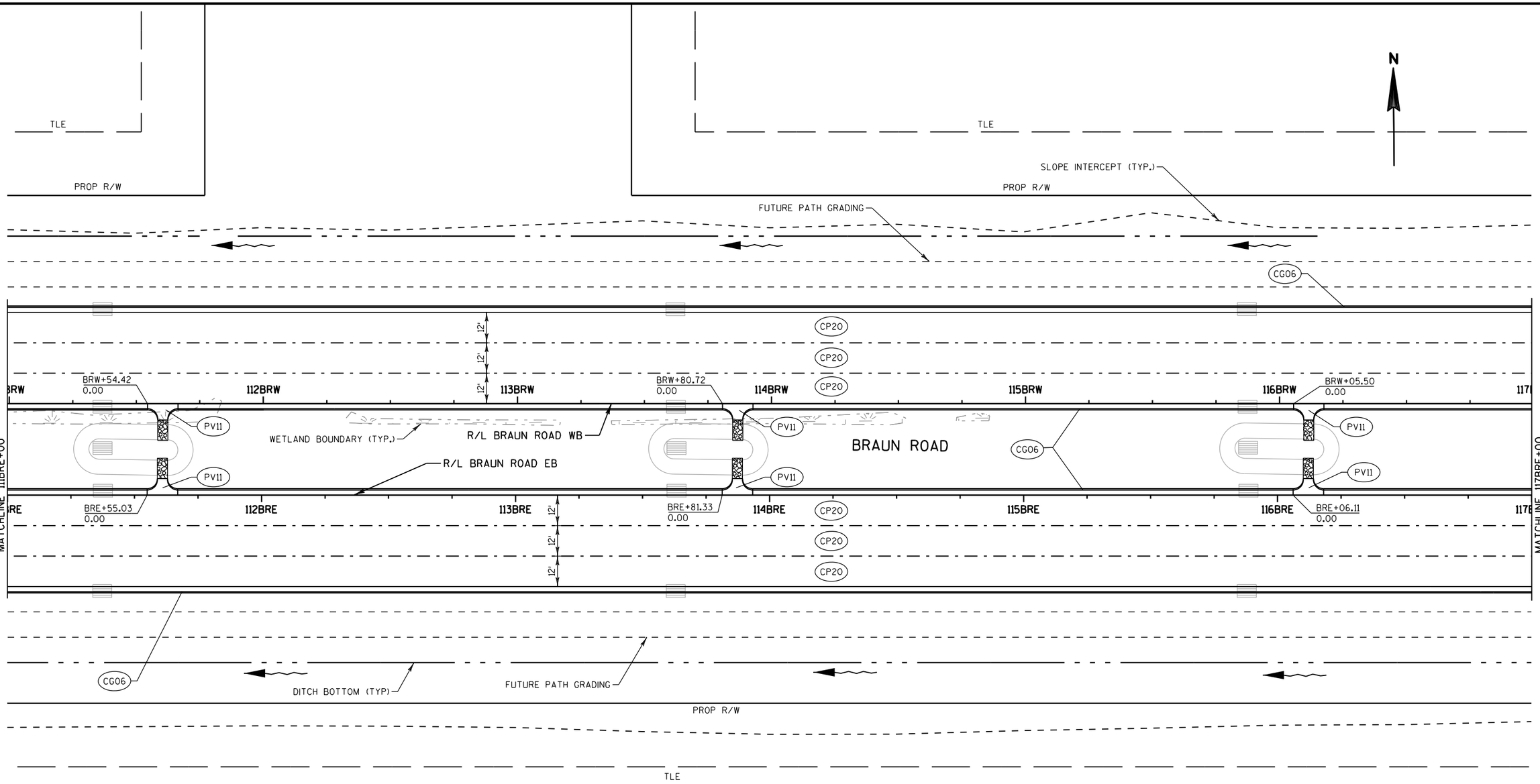
CP20 CONCRETE PAVEMENT 10-INCH, DOWELED

PV11 CONCRETE SURFACE DRAINS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET 44	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBRAUN\18x28x2018 7:35:18rPM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

2

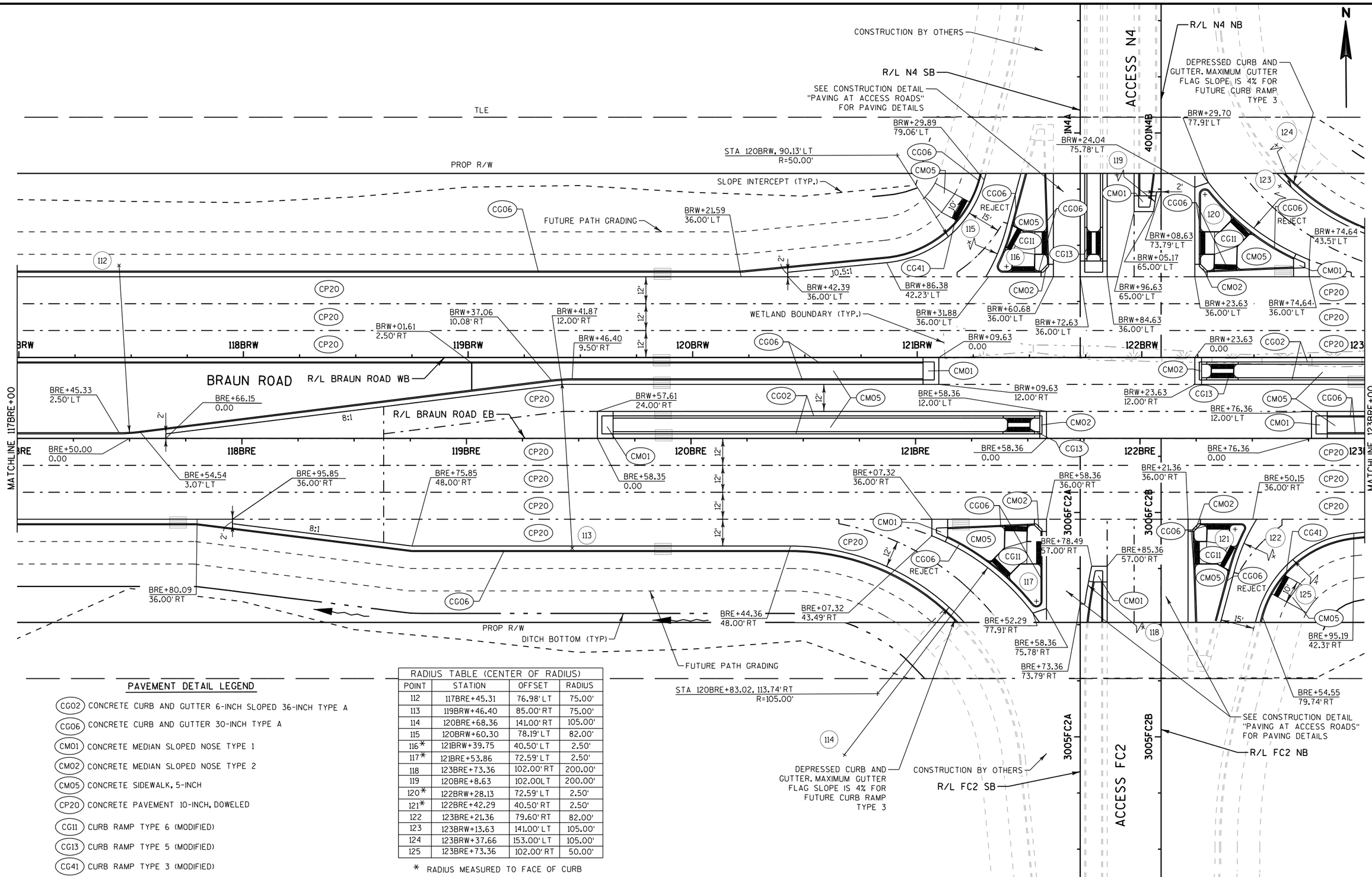


PAVEMENT DETAIL LEGEND

- CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- CP20 CONCRETE PAVEMENT 10-INCH, DOWELED
- PV11 CONCRETE SURFACE DRAINS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET 45	E

2



PAVEMENT DETAIL LEGEND

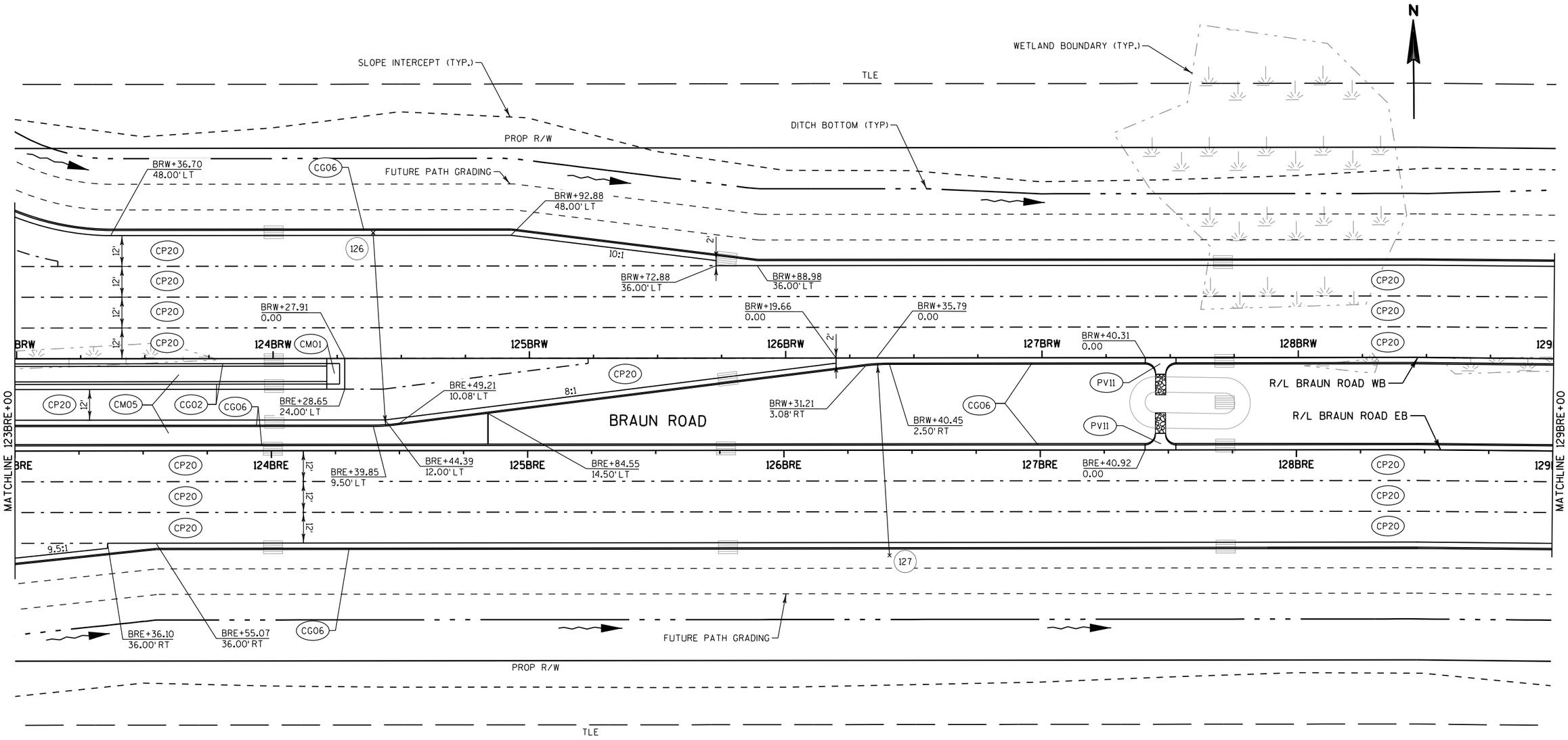
- CGO2 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A
- CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- CM05 CONCRETE SIDEWALK, 5-INCH
- CP20 CONCRETE PAVEMENT 10-INCH, DOWELED
- CG11 CURB RAMP TYPE 6 (MODIFIED)
- CG13 CURB RAMP TYPE 5 (MODIFIED)
- CG41 CURB RAMP TYPE 3 (MODIFIED)

RADIUS TABLE (CENTER OF RADIUS)			
POINT	STATION	OFFSET	RADIUS
112	117BRE+45.31	76.98' LT	75.00'
113	119BRW+46.40	85.00' RT	75.00'
114	120BRE+68.36	141.00' RT	105.00'
115	120BRW+60.30	78.19' LT	82.00'
116*	121BRW+39.75	40.50' LT	2.50'
117*	121BRE+53.86	72.59' LT	2.50'
118	123BRE+73.36	102.00' RT	200.00'
119	120BRE+8.63	102.00LT	200.00'
120*	122BRW+28.13	72.59' LT	2.50'
121*	122BRE+42.29	40.50' RT	2.50'
122	123BRE+21.36	79.60' RT	82.00'
123	123BRW+13.63	141.00' LT	105.00'
124	123BRW+37.66	153.00' LT	105.00'
125	123BRE+73.36	102.00' RT	50.00'

* RADIUS MEASURED TO FACE OF CURB

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET 46	E

2

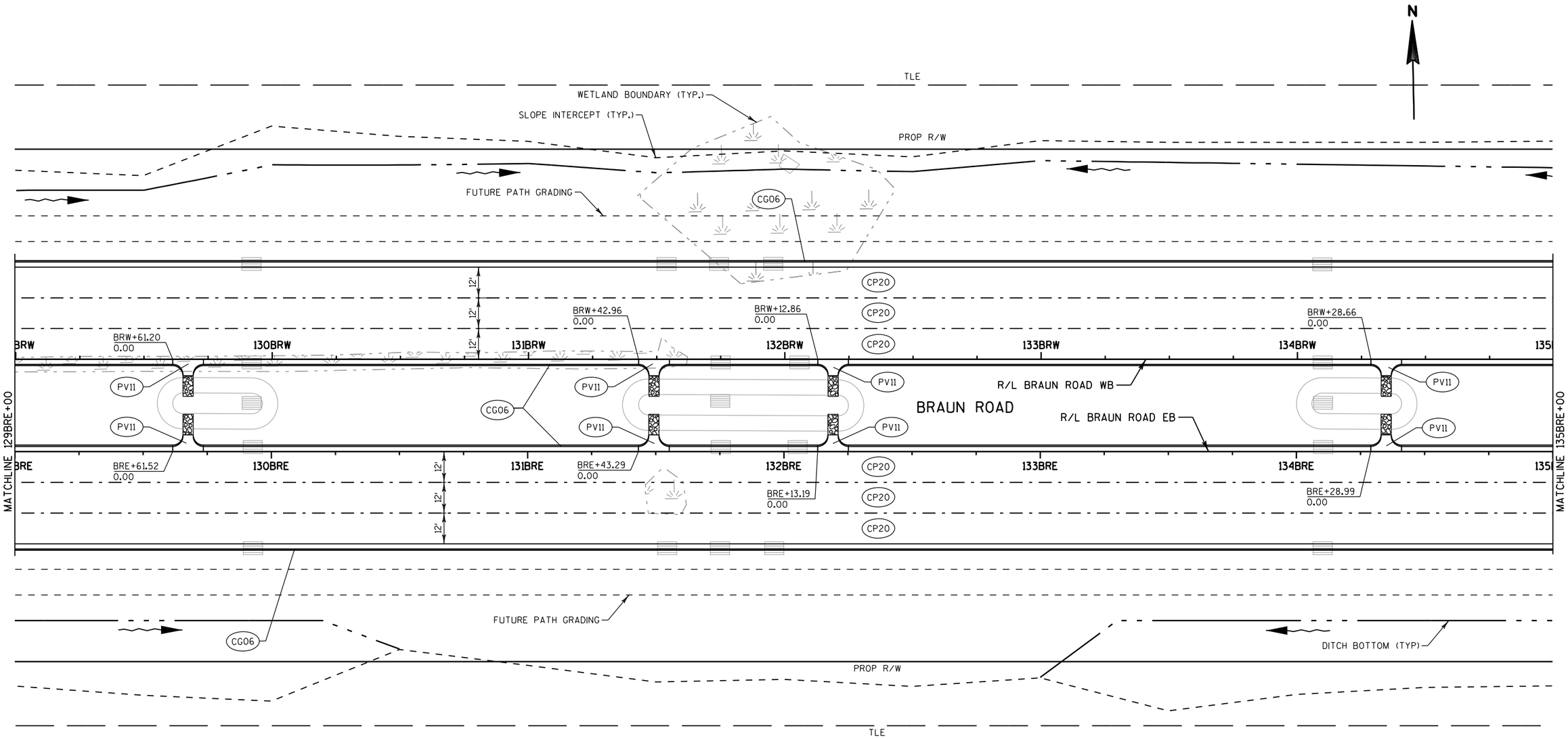


PAVEMENT DETAIL LEGEND

- CG02 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A
- CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM05 CONCRETE SIDEWALK, 5-INCH
- CP20 CONCRETE PAVEMENT 10-INCH, DOWELED
- PV11 CONCRETE SURFACE DRAINS

RADIUS TABLE (CENTER OF RADIUS)			
POINT	STATION	OFFSET	RADIUS
126	124BRE+39.88	84.97' LT	75.00'
127	126BRW+40.45	77.00' RT	75.00'

2



PAVEMENT DETAIL LEGEND

- CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- CP20 CONCRETE PAVEMENT 10-INCH, DOWELED
- PV11 CONCRETE SURFACE DRAINS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET 48	E

2

N

TLE

DITCH BOTTOM (TYP)

PROP R/W

SLOPE INTERCEPT (TYP.)

FUTURE PATH GRADING

CG06

12'

CP20

BRW+49.49
0.00

136BRW

137BRW

138BRW

139BRW

140BRW

R/L BRAUN ROAD WB

R/L BRAUN ROAD EB

PV11

BRAUN ROAD

MATCHLINE 135BRE+00

136BRE

BRE+49.81
0.00

137BRE

138BRE

139BRE

140BRE

MATCHLINE 141BRE+00

8.5:1

2

BRE+42.33
36.00' RT

BRE+59.43
36.00' RT

BRE+45.85
48.00' RT

PROP R/W

TLE

PAVEMENT DETAIL LEGEND

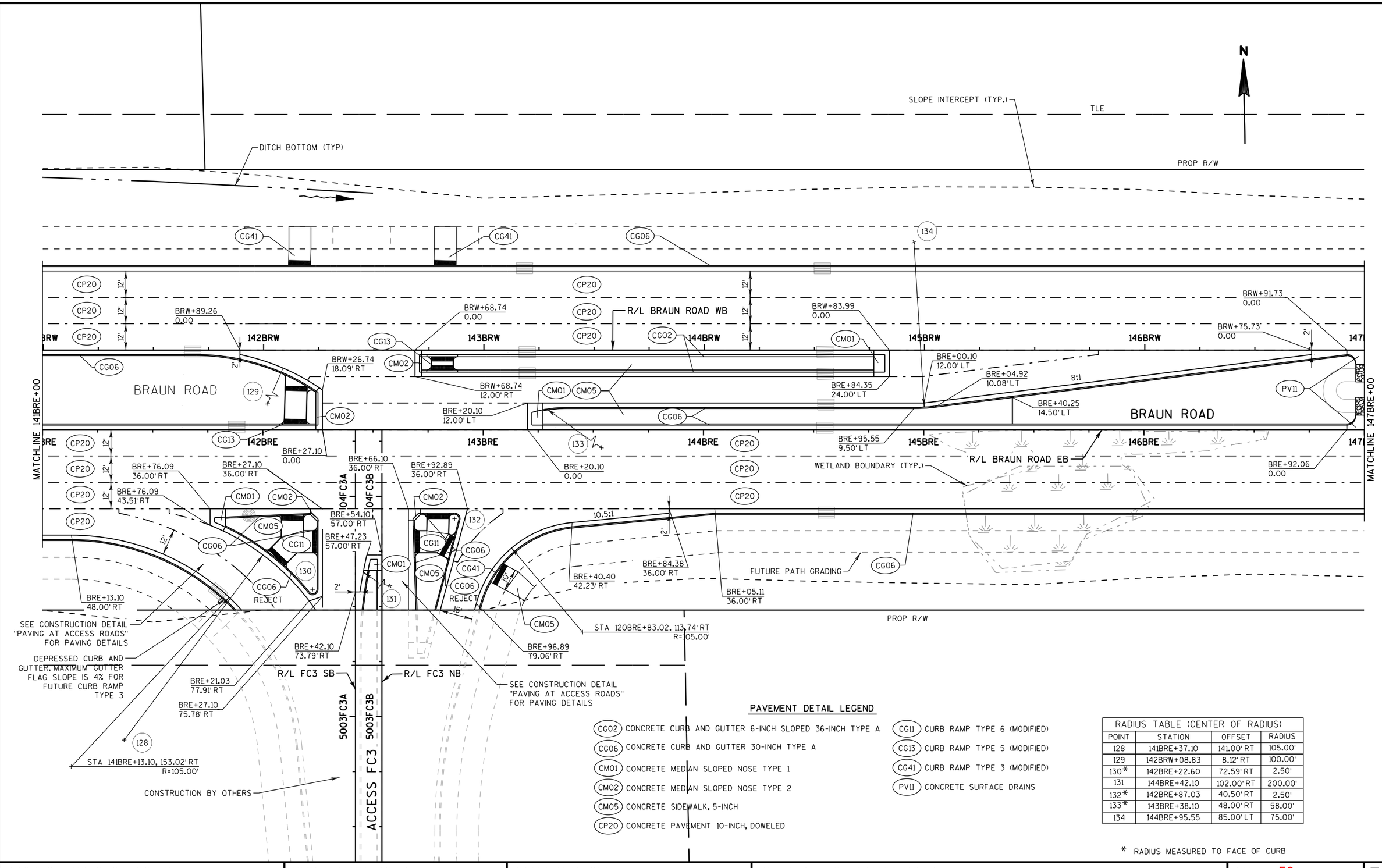
- CG02 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A
- CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- CP20 CONCRETE PAVEMENT 10-INCH, DOWELED
- PV11 CONCRETE SURFACE DRAINS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET 49	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\t18x28_20181212_15_26grPM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2



PAVEMENT DETAIL LEGEND

- CG02 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A
- CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM02 CONCRETE MEDIAN SLOPED NOSE TYPE 2
- CM05 CONCRETE SIDEWALK, 5-INCH
- CP20 CONCRETE PAVEMENT 10-INCH, DOWELED
- CG11 CURB RAMP TYPE 6 (MODIFIED)
- CG13 CURB RAMP TYPE 5 (MODIFIED)
- CG41 CURB RAMP TYPE 3 (MODIFIED)
- PV11 CONCRETE SURFACE DRAINS

RADIUS TABLE (CENTER OF RADIUS)			
POINT	STATION	OFFSET	RADIUS
128	141BRE+37.10	141.00' RT	105.00'
129	142BRW+08.83	8.12' RT	100.00'
130*	142BRE+22.60	72.59' RT	2.50'
131	144BRE+42.10	102.00' RT	200.00'
132*	142BRE+87.03	40.50' RT	2.50'
133*	143BRE+38.10	48.00' RT	58.00'
134	144BRE+95.55	85.00' LT	75.00'

* RADIUS MEASURED TO FACE OF CURB

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET 50	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD.dgn PLOT DATE : 8/28/2018 3:35:29 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

TLE

PROP R/W

SLOPE INTERCEPT (TYP.)

FUTURE PATH GRADING

CG06

CP20 12'

CP20 12'

CP20 12'

BRW+61.33
0.00

END CONSTRUCTION
STA 149BRW+83.69
X=604107.74
Y=170257.44

BRW 148BRW 149BRW 150BRW 151BRW 152BRW 153BRW

R/L BRAUN ROAD WB

CG06

PV11

BRAUN ROAD

PV11

R/L BRAUN ROAD EB

MATCHLINE 147BRE+00

BRE 148BRE 149BRE 150BRE 151BRE 152BRE 153BRE

BRE+61.65
0.00

CP20 12'

CP20 12'

CP20 12'

CG06

FUTURE PATH GRADING

PROP R/W

END PROJECT 2704-09-00
STA 149BRE+84.06
X=604107.10
Y=170221.44

PAVEMENT DETAIL LEGEND

CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A

CP20 CONCRETE PAVEMENT 10-INCH, DOWELED

PV11 CONCRETE SURFACE DRAINS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET 51	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\18x28\20181[illegible]PM

PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

2

N

PROP R/W

WETLAND BOUNDARY (TYP.)

PROP R/W

END CONSTRUCTION
STA 154BRW+21.50
X=604545.48
Y=170245.64

BRW+21.50
4.50' LT

BRW+54.64
4.50' LT

AG02

AP03

2"

4.5"

R/L BRAUN ROAD WB

BRW

154BRW

155BRW

156BRW

157BRW

158BRW

159BRW

END CONSTRUCTION
STA 154BRE+91.17
X=604614.14
Y=170212.41

BRW+54.64
5.51' RT

BRE+79.41
5.83' LT

BRE+27.81
4.06' RT

BRE+72.12
3.44' LT

AP03

BRE+55.01
8.92' LT

BRE+87.81
0.00'

BRE+37.81
5.07' RT

BRE+20.90
0.00'

MATCHLINE 153BRE+00

BRE

154BRE

155BRE

157BRE

158BRE

159BRE

AG02

AP03

AP03

R/L BRAUN

BRE+55.00
0.00'

MATCH EXISTING
EDGE OF PAVEMENT

DITCH BOTTOM (TYP)

SLOPE INTERCEPT (TYP.)

STAGE 1C
BUTT JOINT REQUIRED
(SEE CONSTRUCTION DETAILS)

CG04

COORDINATE TEMPORARY TRAFFIC
SIGNAL MODIFICATIONS WITH
CONTRACTOR FOR I.D. 2818-00-73

144

BRE+92.42
63.66' RT

DELETED

PROP R/W

PROP R/W

PAVEMENT DETAIL LEGEND

AG02 BASE AGGREGATE DENSE 1 1/4-INCH

AP03 HMA PAVEMENT 4 LT 58-28 S (2-INCH UPPER LAYER)
HMA PAVEMENT 3 LT 58-28 S (3-INCH LOWER LAYER)

CG04 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D

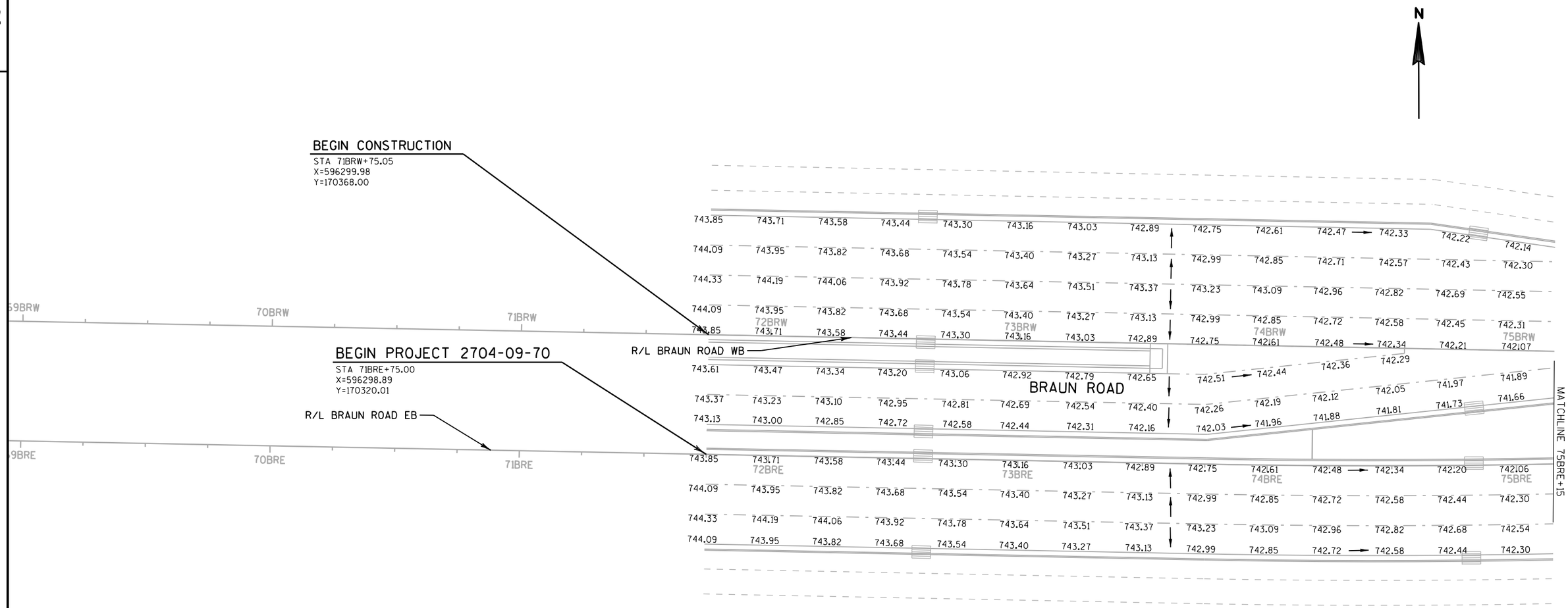
RADIUS TABLE (CENTER OF RADIUS)			
POINT	STATION	OFFSET	RADIUS
144	154BRE+32.43	64.83' RT	60.00'

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD015_t14.dgn 2/18/2021 3:21:44 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2



NOTES

(1) ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVING GRADE: BRAUN ROAD	SHEET 53	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOTTED : 18 Oct 2021 01:44:20PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

2

N

742.07
742.16 742.02 741.88 741.75 741.61 741.47 741.33 741.20 741.06 740.92 740.79 740.65 740.52 740.38 740.26 740.19 740.18 740.22 740.32 740.47 740.67 740.93 741.21 741.48
742.42 742.28 742.14 742.00 741.87 741.73 741.59 741.45 741.31 741.17 741.04 740.90 740.76 740.62 740.50 740.43 740.42 740.46 740.56 740.70 740.91 741.17 741.44 741.72
742.18 742.04 741.90 741.76 741.63 741.49 741.35 741.21 741.07 740.93 740.80 740.66 740.52 740.38 740.26 740.19 740.18 740.22 740.32 740.46 740.67 740.93 741.20 741.48
741.94 741.80 741.66 741.52 741.39 741.25 741.11 740.97 740.83 740.69 740.56 740.42 740.28 740.14 740.02 739.95 739.94 739.98 740.08 740.22 740.43 740.69 740.96 741.24
741.11
741.82 741.75 741.27
741.59 741.51 741.43 741.35

76BRW 77BRW 78BRW 79BRW 80BRW 81BRW

R/L BRAUN ROAD WB

BRAUN ROAD

R/L BRAUN ROAD EB

MATCHLINE 75BRE+15

741.93 741.79 741.65 741.51 741.38 741.24 741.10 740.96 740.83 740.69 740.55 740.41 740.28 740.14 740.02 739.95 739.94 739.98 740.08 740.23 740.43 740.69 740.97 741.24
76BRE 77BRE 78BRE 79BRE 80BRE 81BRE
742.17 742.03 741.89 741.75 741.62 741.48 741.34 741.20 741.07 740.93 740.79 740.65 740.52 740.38 740.26 740.19 740.18 740.22 740.32 740.47 740.67 740.93 741.21 741.48
742.41 742.27 742.13 741.99 741.86 741.72 741.58 741.44 741.31 741.17 741.03 740.89 740.76 740.62 740.50 740.43 740.42 740.46 740.56 740.71 740.91 741.17 741.45 741.72
742.17 742.03 741.89 741.75 741.62 741.48 741.34 741.20 741.07 740.93 740.79 740.65 740.52 740.38 740.26 740.19 740.18 740.22 740.32 740.47 740.67 740.93 741.21 741.48

MATCHLINE 81BRE+15

NOTES

(1) ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVING GRADE: BRAUN ROAD	SHEET 54	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOT DATE : 18 Dec 2018 02:44:26pm PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

2

N

741.81 742.03 742.31 ← 742.58 742.83 743.04 743.21 743.34 743.44 743.49 ← 743.50 → 743.48 743.41 743.31 743.16 742.98 742.76 742.54 742.31 742.09 741.86 741.64 → 741.41 741.19

742.05 742.27 742.55 742.82 743.07 743.28 743.45 743.58 743.68 743.73 743.74 743.72 743.65 743.55 743.40 743.22 743.00 742.78 742.55 742.33 742.10 741.88 741.65 741.43

741.81 742.03 742.31 742.58 742.83 743.04 743.21 743.34 743.44 743.49 743.50 743.48 743.41 743.31 743.16 742.98 742.76 742.54 742.31 742.09 741.86 741.64 741.41 741.19

82BRW 83BRW 84BRW 85BRW 86BRW 87BRW

741.57 741.79 742.07 ← 742.34 742.59 742.80 742.97 743.10 743.20 743.25 ← 743.26 → 743.24 743.17 743.07 742.92 742.74 742.52 742.30 742.07 741.85 741.62 741.40 → 741.17 740.95

R/L BRAUN ROAD WB

R/L BRAUN ROAD EB

BRAUN ROAD

MATCHLINE 81BRE+15

MATCHLINE 87BRE+15

741.57 741.79 742.07 ← 742.35 742.59 742.80 742.97 743.10 743.19 743.25 ← 743.26 → 743.24 743.17 743.07 742.92 742.74 742.52 742.30 742.07 741.85 741.62 741.40 → 741.17 740.95

82BRE 83BRE 84BRE 85BRE 86BRE 87BRE

741.81 742.03 742.31 742.58 742.83 743.04 743.21 743.34 743.44 743.49 743.50 743.48 743.41 743.31 743.16 742.98 742.76 742.54 742.31 742.09 741.86 741.64 741.41 741.19

742.05 742.27 742.55 742.83 743.07 743.28 743.45 743.58 743.67 743.73 743.74 743.72 743.65 743.55 743.40 743.22 743.00 742.78 742.55 742.33 742.10 741.88 741.65 741.43

741.81 742.03 742.31 ← 742.59 742.83 743.04 743.21 743.34 743.43 743.49 ← 743.50 → 743.48 743.41 743.31 743.16 742.98 742.76 742.54 742.31 742.09 741.86 741.64 → 741.41 741.19

NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVING GRADE: BRAUN ROAD	SHEET 55	E

2

N

740.92 740.74 → 740.51 740.29 740.06 739.84 739.61 739.39 739.20 739.04 738.90 738.78 → 738.69 738.62 738.59 738.57 ← 738.58 738.62 738.68 738.77 738.88 739.02 739.19 739.37

741.16 740.98 740.75 740.53 740.30 740.08 739.85 739.63 739.44 739.28 739.14 739.02 738.93 738.86 738.83 738.81 738.82 738.86 738.92 739.01 739.12 739.26 739.43 739.61

740.92 740.74 740.51 740.29 740.06 739.84 739.61 739.39 739.20 739.04 738.90 738.78 738.69 738.62 738.59 738.57 738.58 738.62 738.68 738.77 738.88 739.02 739.19 739.37

88BRW 89BRW 90BRW 91BRW 92BRW 93BRW

740.68 740.50 → 740.27 740.05 739.82 739.60 739.37 739.15 738.96 738.80 738.66 738.54 → 738.45 738.38 738.35 738.33 ← 738.34 738.38 738.44 738.53 738.64 738.78 738.95 739.13

R/L BRAUN ROAD WB

BRAUN ROAD

R/L BRAUN ROAD EB

MATCHLINE 87BRE+15

740.68 740.50 → 740.27 740.05 739.82 739.60 739.37 739.15 738.96 738.80 738.66 738.54 → 738.45 738.39 738.35 738.33 ← 738.34 738.38 738.44 738.53 738.64 738.78 738.95 739.13

88BRE 89BRE 90BRE 91BRE 92BRE 93BRE

740.92 740.74 740.51 740.29 740.06 739.84 739.61 739.39 739.20 739.04 738.89 738.78 738.69 738.63 738.59 738.57 738.58 738.62 738.68 738.77 738.88 739.02 739.19 739.37

741.16 740.98 740.75 740.53 740.30 740.08 739.85 739.63 739.44 739.28 739.14 739.02 738.93 738.86 738.83 738.81 738.82 738.86 738.92 739.01 739.12 739.26 739.43 739.62

MATCHLINE 93BRE+15

740.92 740.74 → 740.51 740.29 740.06 739.84 739.61 739.39 739.20 739.04 738.89 738.78 → 738.69 738.63 738.59 738.57 ← 738.58 738.62 738.68 738.77 738.88 739.02 739.19 739.37

NOTES

(1) ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVING GRADE: BRAUN ROAD	SHEET 56	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040901BRAUN\18x28x2018 1:44:26PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

2

N

739.61 739.77 739.96 740.16 740.36 740.55 740.75 740.95 741.17 741.40 741.63 741.85 742.08 742.30 742.53 742.76 742.95 743.15 743.35 743.54 743.74 743.94 744.13 744.33

739.85 740.01 740.20 740.40 740.60 740.79 740.99 741.19 741.41 741.64 741.87 742.09 742.32 742.54 742.77 743.00 743.19 743.39 743.59 743.78 743.98 744.18 744.37 744.57

739.61 739.77 739.96 740.16 740.36 740.55 740.75 740.95 741.17 741.40 741.63 741.85 742.08 742.30 742.53 742.76 742.95 743.15 743.35 743.54 743.74 743.94 744.13 744.33

94BRW 95BRW 96BRW 97BRW 98BRW 99BRW

739.37 739.53 739.72 739.92 740.12 740.31 740.51 740.71 740.93 741.16 741.39 741.61 741.84 742.06 742.29 742.52 742.71 742.91 743.11 743.30 743.50 743.70 743.89 744.09

R/L BRAUN ROAD WB

R/L BRAUN ROAD EB

BRAUN ROAD

MATCHLINE 93BRE+15

MATCHLINE 99BRE+15

739.37 739.53 739.72 739.92 740.12 740.31 740.51 740.71 740.90 741.10 741.30 741.49 741.69 741.88 742.08 742.28 742.47 742.67 742.87 743.06 743.26 743.46 743.65 743.85

94BRE 95BRE 96BRE 97BRE 98BRE 99BRE

739.61 739.77 739.96 740.16 740.36 740.55 740.75 740.95 741.14 741.34 741.54 741.73 741.93 742.12 742.32 742.52 742.71 742.91 743.11 743.30 743.50 743.70 743.89 744.09

739.85 740.01 740.20 740.40 740.60 740.79 740.99 741.19 741.38 741.58 741.78 741.97 742.17 742.37 742.56 742.76 742.95 743.15 743.35 743.54 743.74 743.94 744.13 744.33

739.61 739.77 739.96 740.16 740.36 740.55 740.75 740.95 741.14 741.34 741.54 741.73 741.93 742.12 742.27 742.32 742.41 742.52 742.55 742.69 742.71 742.87 743.06 743.11 743.26 743.30 743.46 743.50 743.65 743.70 743.85 743.89 744.09

NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVING GRADE: BRAUN ROAD	SHEET 57	E

2

2

N

BRAUN ROAD

BRAUN ROAD

R/L BRAUN ROAD WB

R/L BRAUN ROAD EB

MATCHLINE 99BRE+15

MATCHLINE 105BRE+15

100BRW 101BRW 102BRW 103BRW 104BRW 105BRW

100BRE 101BRE 102BRE 103BRE 104BRE 105BRE

744.57 744.72 744.92 745.12 745.31 745.51 745.70 745.90 746.10 746.29 746.49 746.69 746.88 747.08 747.28 747.47 747.67 747.87 748.06 748.26 748.45 748.65 748.85 749.04

744.81 744.96 745.16 745.36 745.55 745.75 745.94 746.14 746.34 746.53 746.73 746.93 747.12 747.32 747.52 747.71 747.91 748.11 748.30 748.50 748.69 748.89 749.09 749.28

744.57 744.72 744.92 745.12 745.31 745.51 745.70 745.90 746.10 746.29 746.49 746.69 746.88 747.08 747.28 747.47 747.67 747.87 748.06 748.26 748.45 748.65 748.85 749.04

744.33 744.48 744.68 744.88 745.07 745.27 745.47 745.66 745.86 746.05 746.25 746.45 746.64 746.84 747.04 747.23 747.43 747.63 747.82 748.02 748.21 748.41 748.61 748.80

745.03 745.22 745.42 745.61 745.81 746.01 746.21 746.40 746.60 746.80 747.00 747.26 747.52 747.77 748.05 748.31

744.79 744.98 745.18 745.37 745.57 745.77 745.97 746.16 746.36 746.56 746.76 747.01 747.27 747.53 747.79

744.09 744.24 744.44 744.63 744.83 745.03 745.23 745.42 745.62 745.81 746.01 746.21 746.40 746.60 746.80 746.99 747.19 747.39 747.58 747.78 747.98 748.17 748.37 748.56

744.32 744.48 744.68 744.88 745.07 745.27 745.46 745.66 745.86 746.05 746.25 746.45 746.64 746.84 747.04 747.23 747.43 747.63 747.82 748.02 748.22 748.41 748.61 748.80

744.57 744.72 744.92 745.12 745.31 745.51 745.70 745.90 746.10 746.29 746.49 746.69 746.88 747.08 747.28 747.47 747.67 747.87 748.06 748.26 748.45 748.65 748.85 749.04

744.32 744.48 744.68 744.87 745.07 745.27 745.47 745.66 745.86 746.05 746.25 746.45 746.64 746.84 747.04 747.23 747.43 747.63 747.82 748.02 748.21 748.41 748.61 748.80

744.08 744.18 744.61 744.45 744.18 744.78 744.84 744.58 744.55 744.45 744.00 744.36 745.72 745.93 746.17 745.52 745.11 745.21 744.47

NOTE 2

NOTE 2

1004FC1A

1004FC1B

1003FC1A

1003FC1B

ACCESS FC1

R/L FC1 SB

R/L FC1 NB

CONSTRUCTED BY OTHERS

NOTES

1. ALL ELEVATIONS ARE FINISH GRADES
2. REVERSE SLOPE GUTTER REQUIRED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVING GRADE: BRAUN ROAD	SHEET 58	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD.dgn 18:28:20 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

749.24 749.38 749.54 749.71 749.88 750.04 750.21 750.38 750.57 750.77 750.97 751.16 751.36 751.55 751.75 751.95 752.14 752.34 752.54 752.73 752.93 753.13 753.32 753.52

749.48 749.62 749.78 749.95 750.12 750.28 750.45 750.62 750.81 751.01 751.21 751.40 751.60 751.79 751.99 752.19 752.38 752.58 752.78 752.97 753.17 753.37 753.56 753.76

749.24 749.38 749.54 749.71 749.88 750.04 750.21 750.38 750.57 750.77 750.97 751.16 751.36 751.55 751.75 751.95 752.14 752.34 752.54 752.73 752.93 753.13 753.32 753.52

106BRW 107BRW 108BRW 109BRW 110BRW 111BRW

749.00 749.14 749.30 749.47 749.64 749.80 749.97 750.14 750.33 750.53 750.73 750.92 751.12 751.31 751.51 751.71 751.90 752.10 752.30 752.49 752.69 752.89 753.08 753.28

R/L BRAUN ROAD EB

BRAUN ROAD

R/L BRAUN ROAD WB

MATCHLINE 105BRE+15

748.80 748.96 749.15 749.35 749.55 749.74 749.94 750.14 750.33 750.53 750.73 750.92 751.12 751.32 751.51 751.71 751.90 752.10 752.30 752.49 752.69 752.89 753.08 753.28

106BRE 107BRE 108BRE 109BRE 110BRE 111BRE

749.04 749.20 749.39 749.59 749.79 749.98 750.18 750.38 750.57 750.77 750.97 751.16 751.36 751.56 751.75 751.95 752.14 752.34 752.54 752.73 752.93 753.13 753.32 753.52

749.28 749.44 749.63 749.83 750.03 750.22 750.42 750.62 750.81 751.01 751.20 751.40 751.60 751.80 751.99 752.19 752.38 752.58 752.78 752.97 753.17 753.37 753.56 753.76

749.04 749.20 749.39 749.59 749.79 749.98 750.18 750.38 750.57 750.77 750.96 751.16 751.36 751.56 751.75 751.95 752.14 752.34 752.54 752.73 752.93 753.13 753.32 753.52

MATCHLINE 111BRE+15

NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVING GRADE: BRAUN ROAD	SHEET 59	E

2

N

753.75 753.91 ← 754.11 754.31 754.50 754.70 754.89 755.09 755.29 755.48 755.68 755.88 756.07 756.27 756.44 756.60 756.77 756.94 757.10 757.27 757.43 757.60 757.80 ← 757.99

753.99 754.15 754.35 754.54 754.74 754.94 755.13 755.33 755.53 755.72 755.92 756.12 756.31 756.51 756.68 756.84 757.01 757.18 757.34 757.51 757.67 757.84 758.04 758.23

753.75 753.91 754.11 754.30 754.50 754.70 754.89 755.09 755.29 755.48 755.68 755.88 756.07 756.27 756.44 756.60 756.77 756.94 757.10 757.27 757.43 757.60 757.80 757.99

753.51 753.67 ← 753.87 754.06 112BRW 754.26 754.46 754.65 754.85 113BRW 755.05 755.24 755.44 755.64 114BRW 755.83 756.03 756.20 756.36 115BRW 756.53 756.70 756.86 757.03 116BRW 757.19 757.36 757.56 ← 757.75 117BRW

R/L BRAUN ROAD WB

R/L BRAUN ROAD EB

BRAUN ROAD

MATCHLINE 111BRE+15

753.52 753.67 ← 753.87 754.07 754.26 754.46 754.65 754.85 755.05 755.24 755.44 755.64 755.83 756.03 756.23 756.42 756.62 756.82 757.01 757.21 757.40 757.60 757.80 ← 757.99

753.76 753.91 754.11 754.31 112BRE 754.50 754.70 754.89 755.09 113BRE 755.29 755.48 755.68 755.88 114BRE 756.07 756.27 756.47 756.66 115BRE 756.86 757.06 757.25 757.45 116BRE 757.65 757.84 758.04 758.23 117BRE

754.00 754.15 754.35 754.55 754.74 754.94 755.13 755.33 755.53 755.72 755.92 756.12 756.31 756.51 756.71 756.90 757.10 757.30 757.49 757.69 757.89 758.08 758.28 758.47

753.76 753.91 ← 754.11 754.31 754.50 754.70 754.89 755.09 755.29 755.48 755.68 755.88 756.07 756.27 756.47 756.66 756.86 757.06 757.25 757.45 757.65 757.84 758.04 ← 758.23

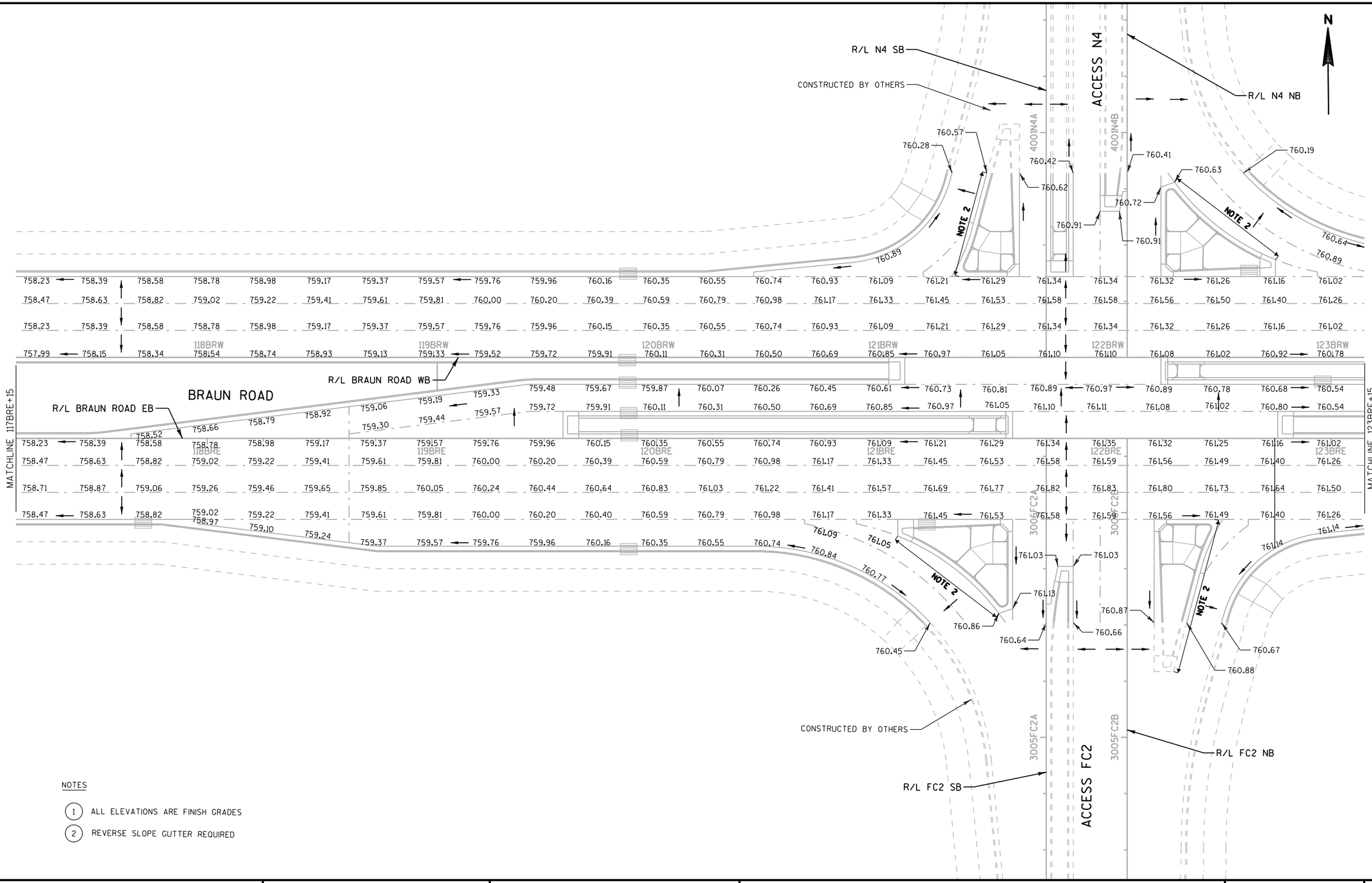
MATCHLINE 117BRE+15

NOTES

(1) ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVING GRADE: BRAUN ROAD	SHEET 60	E

2

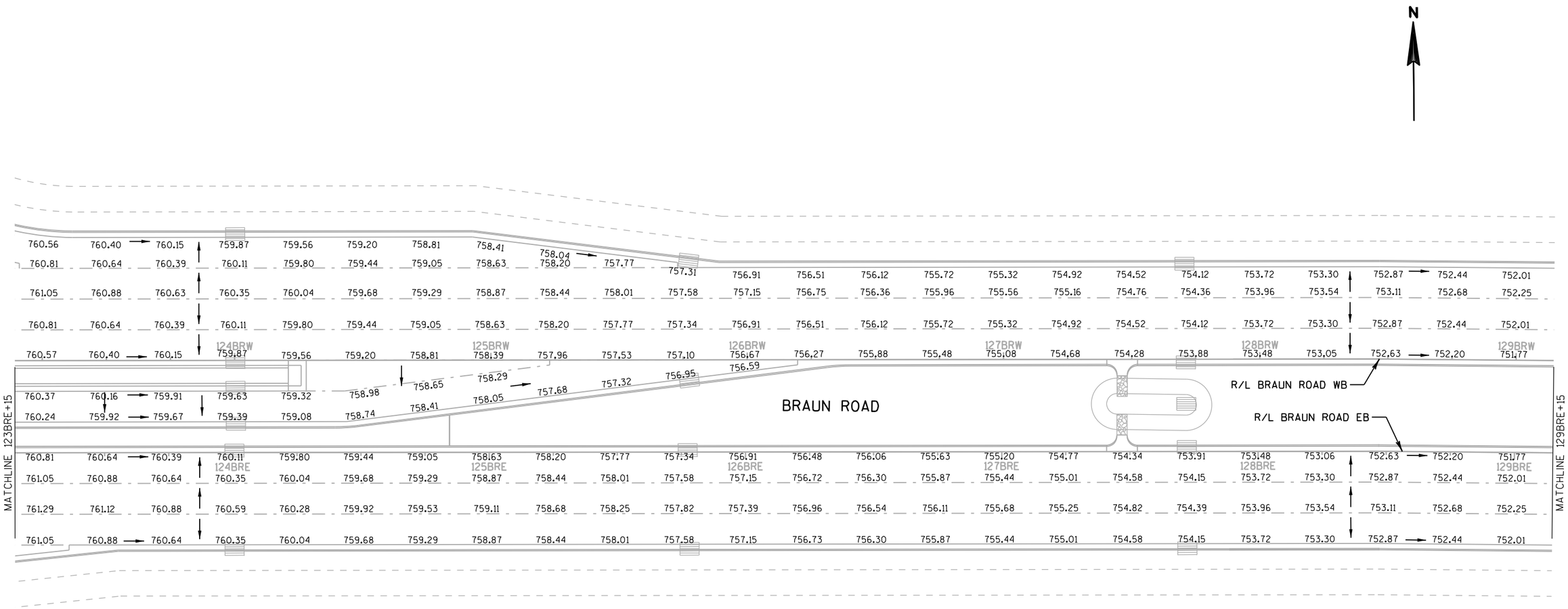


NOTES

1. ALL ELEVATIONS ARE FINISH GRADES
2. REVERSE SLOPE GUTTER REQUIRED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVING GRADE: BRAUN ROAD	SHEET 61	E

2



NOTES

(1) ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVING GRADE: BRAUN ROAD	SHEET 62	E

2

N

MATCHLINE 129BRE+15

751.50	751.17	750.81	750.48	750.20	749.97	749.77	749.62	749.50	749.43	749.41	749.42	749.48	749.58	749.72	749.89	750.05	750.21	750.38	750.54	750.71	750.87	751.03	751.20			
751.74	751.41	751.05	750.72	750.44	750.21	750.01	749.86	749.74	749.67	749.65	749.66	749.72	749.82	749.96	750.13	750.29	750.45	750.62	750.78	750.95	751.11	751.27	751.44			
751.50	751.17	750.81	750.48	750.20	749.97	749.77	749.62	749.50	749.43	749.41	749.42	749.48	749.58	749.72	749.89	750.05	750.21	750.38	750.54	750.71	750.87	751.03	751.20			
			130BRW				131BRW				132BRW				133BRW				134BRW				135BRW			
751.26	750.93	750.57	750.24	749.96	749.73	749.53	749.38	749.26	749.19	749.17	749.18	749.24	749.34	749.48	749.65	749.81	749.97	750.14	750.30	750.47	750.63	750.79	750.96			

R/L BRAUN ROAD WB

BRAUN ROAD

R/L BRAUN ROAD EB

751.26	750.93	750.57	750.24	749.96	749.73	749.53	749.38	749.26	749.20	749.17	749.18	749.24	749.34	749.48	749.65	749.81	749.98	750.14	750.30	750.47	750.63	750.79	750.96			
			130BRE				131BRE				132BRE				133BRE				134BRE				135BRE			
751.50	751.17	750.81	750.48	750.20	749.97	749.77	749.61	749.50	749.43	749.41	749.42	749.48	749.58	749.72	749.89	750.05	750.22	750.38	750.54	750.71	750.87	751.03	751.20			
751.73	751.41	751.05	750.72	750.44	750.20	750.01	749.85	749.74	749.67	749.65	749.66	749.72	749.82	749.96	750.13	750.29	750.45	750.62	750.78	750.95	751.11	751.27	751.44			
751.50	751.17	750.81	750.48	750.20	749.96	749.77	749.62	749.50	749.44	749.41	749.42	749.48	749.58	749.72	749.89	750.05	750.21	750.38	750.54	750.71	750.87	751.03	751.20			

MATCHLINE 135BRE+15

NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVING GRADE: BRAUN ROAD	SHEET 63	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOT DATE: 18 Oct 2021 11:45:16 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

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N

751.39 751.52 751.69 751.85 752.01 752.18 752.34 752.51 752.67 752.83 752.99 753.12 753.20 753.23 753.22 753.16 753.06 752.92 752.72 752.49 752.21 751.88 751.51 751.07

751.63 751.76 751.93 752.09 752.25 752.42 752.58 752.75 752.91 753.07 753.23 753.36 753.44 753.47 753.46 753.40 753.30 753.16 752.96 752.73 752.45 752.12 751.75 751.33

751.39 751.52 751.69 751.85 752.01 752.18 752.34 752.51 752.67 752.83 752.99 753.12 753.20 753.23 753.22 753.16 753.06 752.92 752.72 752.49 752.21 751.88 751.51 751.09

136BRW 137BRW 138BRW 139BRW 140BRW 141BRW

751.15 751.28 751.45 751.61 751.77 751.94 752.10 752.27 752.43 752.59 752.75 752.88 752.96 752.99 752.98 752.92 752.82 752.68 752.48 752.25 751.97 751.64 751.27 750.85

R/L BRAUN ROAD WB

R/L BRAUN ROAD EB

BRAUN ROAD

MATCHLINE 135BRE+15

751.15 751.28 751.45 751.61 751.77 751.94 752.10 752.26 752.43 752.59 752.76 752.89 752.99 753.04 753.04 753.00 752.91 752.78 752.61 752.39 752.10 751.80 751.44 751.03

136BRE 137BRE 138BRE 139BRE 140BRE 141BRE

751.39 751.52 751.69 751.85 752.01 752.18 752.34 752.50 752.67 752.83 753.00 753.13 753.23 753.28 753.28 753.24 753.15 753.02 752.84 752.62 752.35 752.04 751.68 751.28

751.63 751.76 751.93 752.09 752.25 752.42 752.58 752.75 752.91 753.07 753.24 753.37 753.47 753.52 753.52 753.48 753.39 753.26 753.08 752.86 752.59 752.28 751.92 751.52

751.39 751.52 751.69 751.85 752.01 752.18 752.34 752.51 752.67 752.83 753.00 753.13 753.23 753.28 753.28 753.24 753.15 753.02 752.84 752.62 752.35 752.04 751.68 751.28

753.20 753.10 752.96 752.78 752.60 752.38 752.11 751.80 751.44 751.04

MATCHLINE 141BRE+15

NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

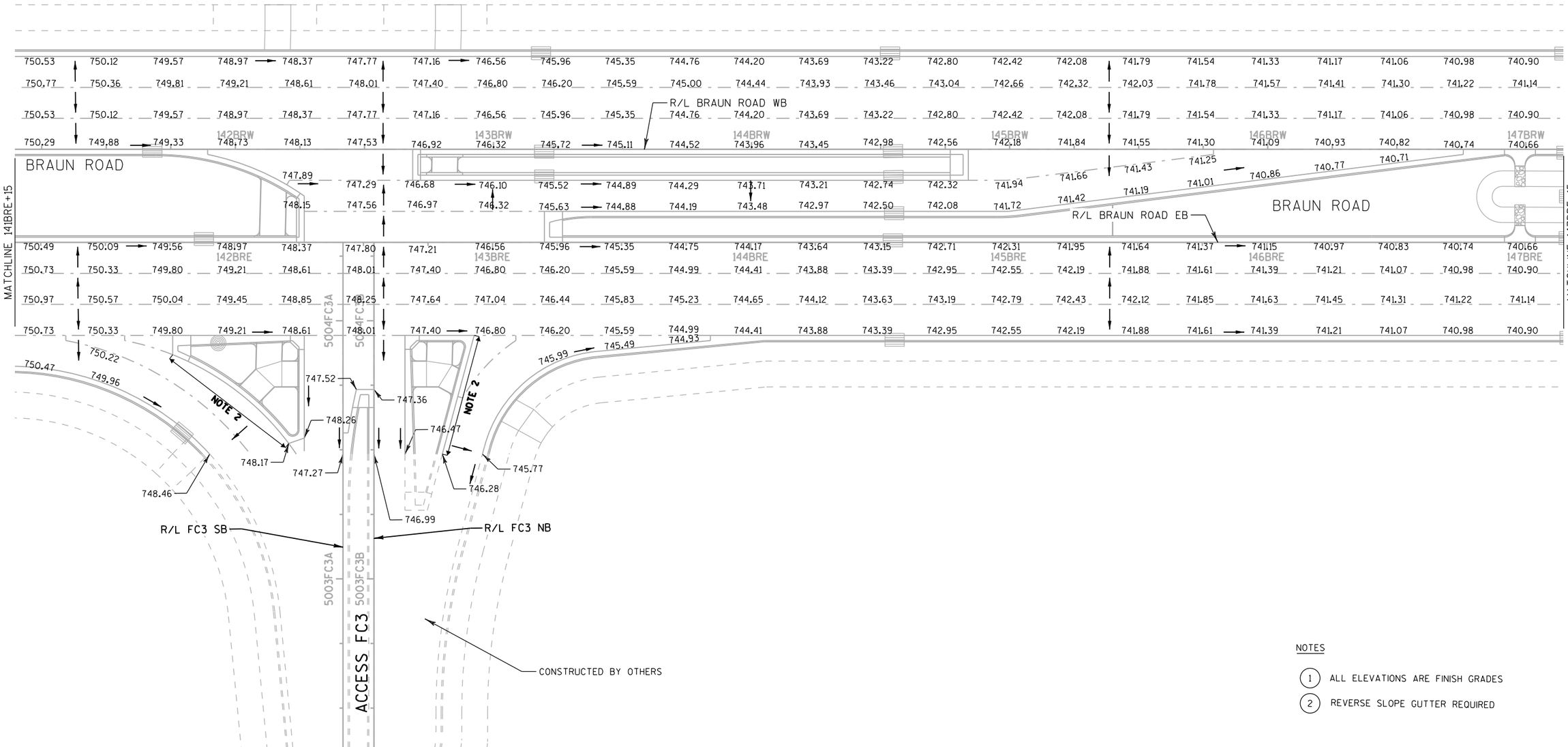
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVING GRADE: BRAUN ROAD	SHEET 64	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040901BRAUN\18x28_20181212_Profile.dgn PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

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NOTES

1. ALL ELEVATIONS ARE FINISH GRADES
2. REVERSE SLOPE GUTTER REQUIRED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVING GRADE: BRAUN ROAD	SHEET 65	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOT DATE : 18 Dec 2018 1:45:24pm PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

END CONSTRUCTION
STA 149BRW+83.69
X=604107.74
Y=170257.44

740.81 740.75 740.67 740.60 740.52 740.45 740.37 740.30 740.22 740.15 740.07
741.05 740.99 740.91 740.84 740.76 740.69 740.61 740.54 740.46 740.39 740.31
740.81 740.75 740.67 740.60 740.52 740.45 740.37 740.30 740.22 740.15 740.07
740.57 740.51 740.43 740.36 740.28 740.21 740.13 740.06 739.98 739.91 739.83

148BRW 149BRW 150BRW 151BRW 152BRW 153BRW

R/L BRAUN ROAD WB

BRAUN ROAD

R/L BRAUN ROAD EB

MATCHLINE 147BRE+15

740.57 740.51 740.43 740.36 740.28 740.21 740.13 740.06 739.98 739.90 739.83
740.81 740.75 740.67 740.60 740.52 740.45 740.37 740.30 740.22 740.15 740.07
741.05 740.99 740.92 740.84 740.76 740.69 740.61 740.54 740.46 740.39 740.31
740.81 740.75 740.68 740.60 740.52 740.45 740.37 740.30 740.22 740.15 740.07

148BRE 149BRE 150BRE 151BRE 152BRE 153BRE

END PROJECT 2704-09-70
STA 149BRE+84.06
X=604107.10
Y=170221.44

NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVING GRADE: BRAUN ROAD	SHEET 66	E

2

N

END CONSTRUCTION
STA 154BRW+21.50
X=604545.48
Y=170249.64

154BRW 740.01 739.80 739.60 739.41

155BRW 156BRW 157BRW 158BRW 159BRW

MATCHLINE 153BRE+15

740.46 740.25

740.42 739.89 739.80 739.68 739.61 739.51 739.39 739.30 739.24 739.16 739.15 738.77 738.68 738.57

154BRE 155BRE 157BRE 158BRE 159BRE

END CONSTRUCTION
STA 154BRE+91.17
X=604614.14
Y=170212.41

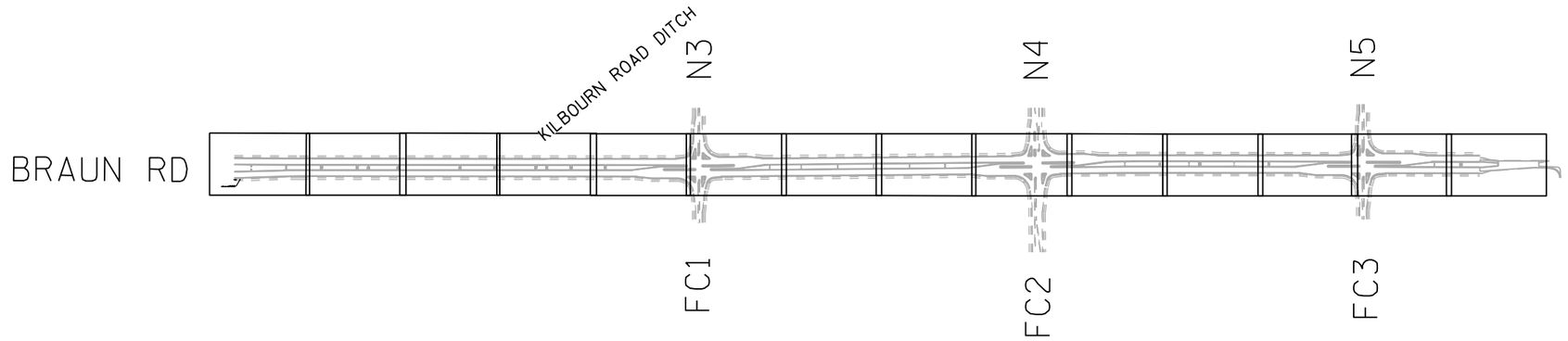
DELETED

NOTES

1. ALL ELEVATIONS ARE FINISH GRADES

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVING GRADE: BRAUN ROAD	SHEET 67	E

2



FTMS STANDARD ABBREVIATIONS

CCTV	CLOSED CIRCUIT TELEVISION SITE
RM	RAMP METER
DMS	DYNAMIC MESSAGE SIGN
SDS	SYSTEM DETECTOR STATION
ATR	AUTOMATIC TRAFFIC RECORDER
FY	ADVANCE FLASHER (ASSEMBLY)
CB	CONTROLLER CABINET
PB	PULL BOX
GPB	GROUNDED PULL BOX
MH	MANHOLE
V	COMMUNICATIONS VAULT
SB	SIGNAL BASE
MD	MICROWAVE DETECTOR

LEGEND	EXISTING	PROPOSED
FTMS CONVENTIONAL SYMBOLS		
FTMS (ITS) CONDUIT		
COMMUNICATIONS VAULT, TYPE 1		V

FTMS GENERAL NOTES

THESE PLANS AND THE ASSOCIATED SPECIAL PROVISIONS REFLECT CONDITIONS KNOWN DURING THE DEVELOPMENT OF THE PLANS AND TECHNICAL SPECIAL PROVISIONS. ALL SCALES, DIMENSIONS AND LOCATIONS SHOWN IN THESE PLANS ARE APPROXIMATE. ACTUAL PHYSICAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR THE APPLICATION OF WORK SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE APPLICATION OF ALL WORK SHOWN IN THE PLANS TO THE ACTUAL PHYSICAL FIELD CONDITIONS TO PROVIDE A COMPLETE AND ACCEPTED PROJECT. IN THE EVENT THAT ACTUAL PHYSICAL FIELD CONDITIONS AFFECT OR PREVENT THE APPLICATION OR PROGRESSION OF ANY WORK SHOWN IN THE PLANS OR TECHNICAL SPECIAL PROVISIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, AND PRIOR TO ANY FURTHER WORK ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY LOCATION CHANGES OTHER THAN MINOR ADJUSTMENTS.

BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.

BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUITS, PULLBOXES, POLES, CABINET FOUNDATIONS, OR OTHER EQUIPMENT IS TO BE INSTALLED. THE CONTRACTOR IS FULLY RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.

NO TREES (AND/OR SHRUBS) ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

AREAS WITHIN THE RIGHT-OF-WAY DISTURBED SPECIFICALLY FOR FTMS CONSTRUCTION ARE TO BE RESTORED TO THE ORIGINAL CONDITION WITH TOPSOIL, FERTILIZER, SEED, AND MULCH. RESTORATION FOR AREAS DISTURBED FOR OTHER CONSTRUCTION OPERATIONS BUT ALSO CONTAINING FTMS CONSTRUCTION WILL BE DONE ACCORDING TO REQUIREMENTS AND PAYMENT PROVISIONS FOR THE OTHER CONSTRUCTION OPERATIONS. NO PAYMENT WILL BE MADE FOR RESTORING AREAS DISTURBED FOR FTMS CONSTRUCTION OPERATIONS.

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

DUE TO RAMP, LANE, SHOULDER CLOSURE RESTRICTIONS, AND WORK UNDER OTHER CONTRACTS, SOME WORK MAY BE REQUIRED TO BE PERFORMED AT NIGHT.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR COORDINATING RAMP, LANE, SHOULDER, AND ROADWAY CLOSURES WITH OTHER CONTRACTS IN THE AREA.

THE CONTRACTOR IS TO CONTACT THE WISDOT STATEWIDE TRAFFIC OPERATIONS CENTER AT (414) 227-2166 FIVE (5) WORKING DAYS PRIOR TO ENTERING ANY EXISTING WISDOT FTMS OR ITS CABINET.

HAND DIG TRENCHES CROSSING EXISTING CONDUIT CONTAINING FIBER OPTIC CABLE.

VISUALLY VERIFY DEPTHS OF EXISTING CONDUITS CONTAINING FIBER OPTIC CABLE PRIOR TO CROSSING BY DIRECTIONAL BORE OR SPECIAL METHOD.

INSTALL CONDUIT BELOW FUTURE MULTIUSE PATH SO AS NOT TO BE DISTURBED WHEN THE PATH IS CONSTRUCTED. INSTALL CONDUIT AND VAULTS AROUND PROPOSED IRRIGATION SYSTEM.

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	FTMS PLANS - OVERVIEW	SHEET 67A	E

2

2

N

G G G G G G

W W W W W W

R/L BRAUN ROAD WB

ST

70BRW 71BRW 72BRW 73BRW 74BRW 75BRW 76B

POST

BRAUN ROAD

70BRE 71BRE 72BRE 73BRE 74BRE 75BRE 76B

MATCHLINE 76BRE+00

CV71BRE

R/L BRAUN ROAD EB

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ITS PLANS	SHEET 67B	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_270409 BRAUN\15x36\218403_1.dgn PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

2

N

G G G G G

W W W W W

R/L BRAUN ROAD WB

77BRW 78BRW 79BRW 80BRW 81BRW 82B

MATCHLINE 76BRE+00

MATCHLINE 82BRE+00

BRAUN ROAD

77BRE 78BRE 79BRE 80BRE 81BRE 82B

R/L BRAUN ROAD EB

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ITS PLANS	SHEET 67C	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040 PLOT DATE : 15 Oct 2021 1:16pm PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

2

N

G G G G

W W W W

R/L BRAUN ROAD WB

83BRW 84BRW 85BRW 86BRW 87BRW 88BRW

MATCHLINE 82BRE+00

BRAUN ROAD

83BRE 84BRE 85BRE 86BRE 87BRE 88BRE

MATCHLINE 88BRE+00

R/L BRAUN ROAD EB

CV88BRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ITS PLANS	SHEET 67D	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_270409001Braun\15_cds\20180211_Braun_15_cds_20180211.dgn PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

2

N

G G G G G

W W W W W

R/L BRAUN ROAD WB

88BRW 89BRW 90BRW 91BRW 92BRW 93BRW 94BRW

MATCHLINE 88BRE+00

88BRE 89BRE 90BRE 91BRE 92BRE 93BRE 94BRE

MATCHLINE 94BRE+00

BRAUN ROAD

R/L BRAUN ROAD EB

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ITS PLANS	SHEET 67E	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun\t15.dgn 2/18/03 1:28:27 PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

2

N

G G G G G

W W W W W

R/L BRAUN ROAD WB

MATCHLINE 94BRE+00

95BRW 96BRW 97BRW 98BRW 99BRW 100

BRAUN ROAD

95BRE 96BRE 97BRE 98BRE 99BRE 100

MATCHLINE 100BRE+00

R/L BRAUN ROAD EB

CV099BRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

E C C

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ITS PLANS	SHEET 67F	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun\t15.dgn 2/18/2021 1:11:26 PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

2

N

ACCESS N3

R/L N3 NB

R/L N3 SB

200IN3A

200IN3B

G

W

R/L BRAUN ROAD WB

BRW

101BRW

102BRW

103BRW

104BRW

105BRW

106

MATCHLINE 100BRE+00

BRE

101BRE

102BRE

103BRE

104BRE

105BRE

106

MATCHLINE 106BRE+00

BRAUN ROAD

R/L BRAUN ROAD EB

1004FC1A

1004FC1B

CV101BRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

R/L FC1 NB

R/L FC1 SB

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

1003FC1A

1003FC1B

ACCESS FC1

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ITS PLANS	SHEET 67G	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040901TBraun\t15.dgn 2/18/05 1:28:29 PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

G G G G

W W W W

R/L BRAUN ROAD WB

106BRW 107BRW 108BRW 109BRW 110BRW 111BRW 112BRW

MATCHLINE 106BRE+00

MATCHLINE 112BRE+00

BRAUN ROAD

106BRE 107BRE 108BRE 109BRE 110BRE 111BRE 112BRE

R/L BRAUN ROAD EB

CV112BRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ITS PLANS	SHEET 67H	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040[illegible]\t15.dgn 22 Oct 2021 1:32:27PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 40:1

2

2

N

G G G G G

W W W W W

R/L BRAUN ROAD WB

113BRW 114BRW 115BRW 116BRW 117BRW 1181

MATCHLINE 112BRE+00

BRAUN ROAD

113BRE 114BRE 115BRE 116BRE 117BRE 118

MATCHLINE 118BRE+00

R/L BRAUN ROAD EB

CV112BRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ITS PLANS	SHEET 671	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_270409007Braun\15.16x22180 3:11:36 PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

2

N

R/L N4 NB

R/L N4 SB

ACCESS N4

400IN4A

400IN4B

G

W

R/L BRAUN ROAD WB

40'

RA

3RW

119BRW

120BRW

121BRW

122BRW

123BRW

124

MATCHLINE 118BRE+00

BRAUN ROAD

3RE

119BRE

120BRE

121BRE

R/L BRAUN ROAD EB

122BRE

123BRE

124

MATCHLINE 124BRE+00

3006FC2A

3006FC2B

CV123BRE

C

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

R/L FC2 NB

R/L FC2 SB

3005FC2A

ACCESS FC2

3005FC2B

T

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ITS PLANS	SHEET 67J	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun_t15.dgn 2/18/2021 3:11:40 PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

G
W

R/L BRAUN ROAD WB

BRW 125BRW 126BRW 127BRW 128BRW 129BRW 130

MATCHLINE 124BRE+00

BRAUN ROAD

BRE 125BRE 126BRE 127BRE 128BRE 129BRE 130

MATCHLINE 130BRE+00

R/L BRAUN ROAD EB

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ITS PLANS	SHEET 67K	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040[illegible] PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

G G G G G

W W W W W

R/L BRAUN ROAD WB

BRW 131BRW 132BRW 133BRW 134BRW 135BRW 136

MATCHLINE 130BRE+00

BRAUN ROAD

MATCHLINE 136BRE+00

BRE 131BRE 132BRE 133BRE 134BRE 135BRE 136

R/L BRAUN ROAD EB

CV133BRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ITS PLANS	SHEET 67L	E

2

2

N

G W

R/L BRAUN ROAD WB

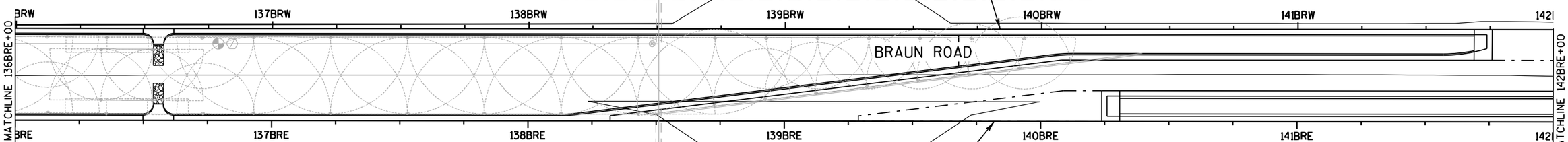
BRAUN ROAD

R/L BRAUN ROAD EB

CV141BRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ITS PLANS	SHEET 67M	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBraun\t15.dgn 2/18/2021 1:11:58 PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

2

N

ACCESS N5

600IN5A

600IN5B

R/L N5 NB

R/L N5 SB

G

W

R/L BRAUN ROAD WB

BRAUN ROAD

R/L BRAUN ROAD EB

MATCHLINE 142BRE+00

MATCHLINE 148BRE+00

142BRW 143BRW 144BRW 145BRW 146BRW 147BRW 148

142BRE 143BRE 144BRE 145BRE 146BRE 147BRE 148

5004FC3A

5004FC3B

CV143BRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

R/L FC3 SB

R/L FC3 NB

ACCESS FC3

5003FC3A

5003FC3B

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ITS PLANS	SHEET 67N	E

2

2

N

G
W

R/L BRAUN ROAD WB

BRAUN ROAD

R/L BRAUN ROAD EB

MATCHLINE 148BRE+00

148BRW 149BRW 150BRW 151BRW 152BRW 153BRW 154BRW

148BRE 149BRE 150BRE 151BRE 152BRE 153BRE 154BRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

GUY
GUY

SAN
T
W

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ITS PLANS	SHEET 67O	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_270409001_Braun_15.dgn 2/28/2018 1:11:58 PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

2

N

BEGIN CONSTRUCTION
STA 71BRW+30.20
X=596255.13
Y=170369.01

R/L BRAUN ROAD WB

SLOPE INTERCEPT (TYP)

64BRW 66BRW 68BRW 70BRW 72BRW 74BRW 76BRW 78BRW

BRAUN ROAD

64BRE 66BRE 68BRE 70BRE 72BRE 74BRE 76BRE 78BRE

MATCHLINE 79BRE+00

WETLAND BOUNDARY (TYP)

R/L BRAUN ROAD EB

BEGIN PROJECT 2704-09-70
STA 71BRE+30.20
X=596254.05
Y=170321.12

LEGEND

- DISTURBED WETLAND AREA
- SLOPE INTERCEPT
- FLOODPLAIN
- WETLAND BOUNDARY

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	DISTURBED WETLAND AREAS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

N

B-51-160

R/L BRAUN ROAD WB

SLOPE INTERCEPT (TYP)

80BRW 82BRW 84BRW 86BRW 88BRW 90BRW 92BRW 94B

BRAUN ROAD

80BRE 82BRE 84BRE 86BRE 88BRE 90BRE 92BRE 94B

MATCHLINE 79BRE+00

MATCHLINE 94BRE+00

R/L BRAUN ROAD EB

WETLAND BOUNDARY (TYP)

FLOODPLAIN (TYP)

KILBOURN ROAD DITCH

LEGEND

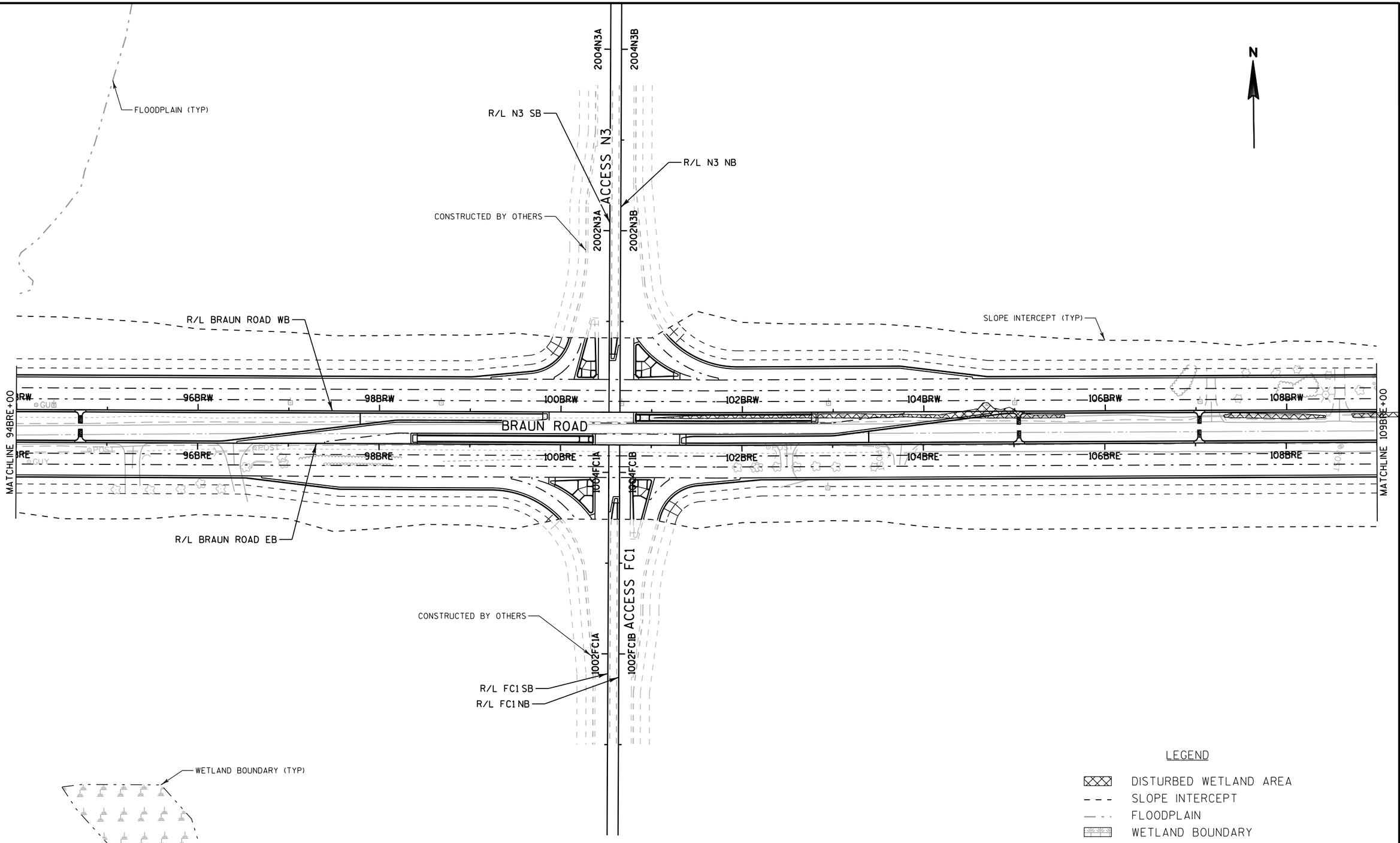
- DISTURBED WETLAND AREA
- SLOPE INTERCEPT
- FLOODPLAIN
- WETLAND BOUNDARY

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	DISTURBED WETLAND AREAS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704PLOT DATE: 11/26/2018 9:35:46 AM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

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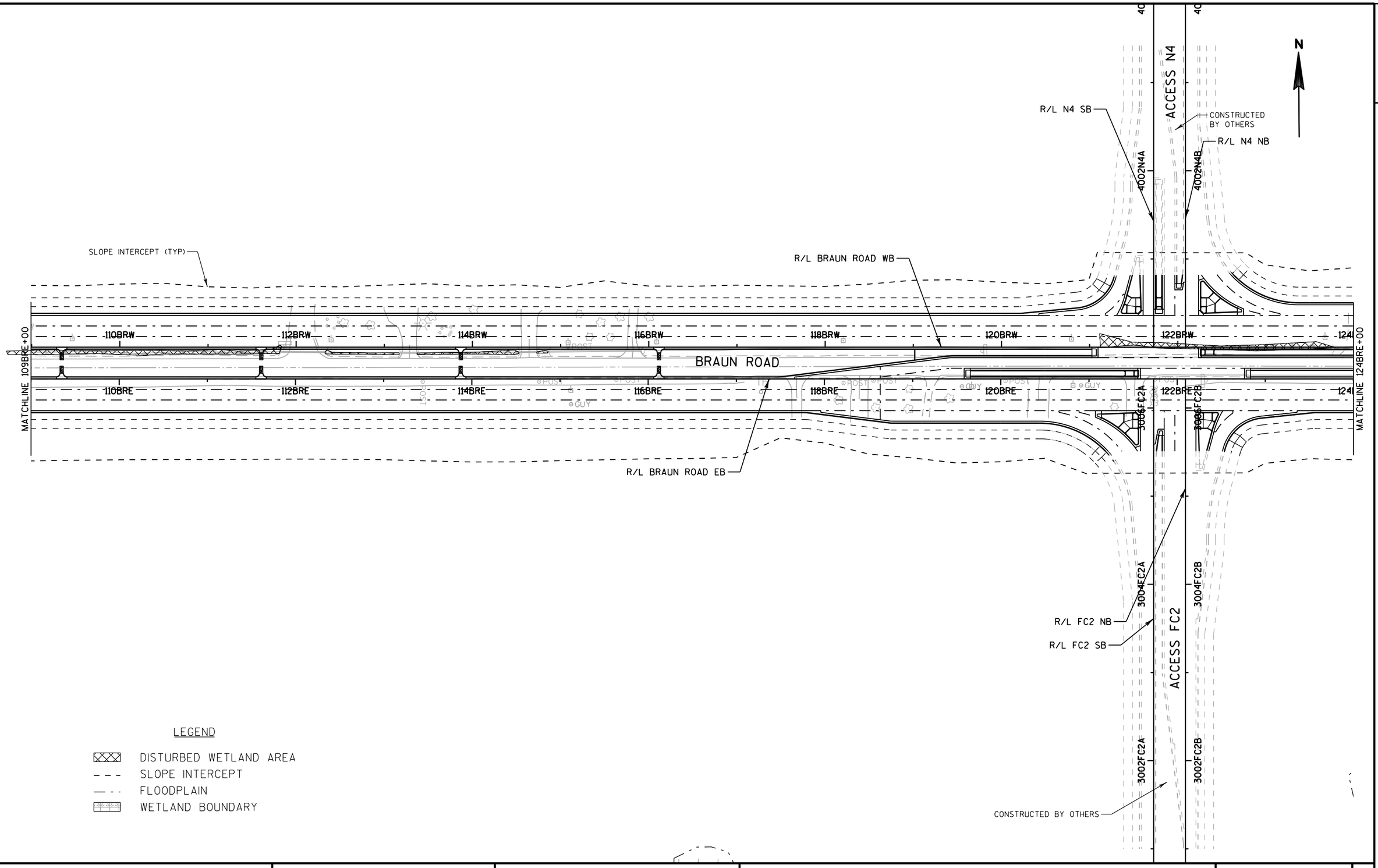


PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	DISTURBED WETLAND AREAS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn 14 Jan 2021 2:35:10pm PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 100:1

2

2



LEGEND

- DISTURBED WETLAND AREA
- SLOPE INTERCEPT
- FLOODPLAIN
- WETLAND BOUNDARY

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	DISTURBED WETLAND AREAS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 100:1
WISDOT/CADDS SHEET 42

2

2

N

WETLAND BOUNDARY (TYP)

SLOPE INTERCEPT (TYP)

R/L BRAUN ROAD WB

BRAUN ROAD

MATCHLINE 124BRE+00

MATCHLINE 139BRE+00

126BRW 128BRW 130BRW 132BRW 134BRW 136BRW 138BRW

126BRE 128BRE 130BRE 132BRE 134BRE 136BRE 138BRE

R/L BRAUN ROAD EB

LEGEND

- DISTURBED WETLAND AREA
- SLOPE INTERCEPT
- FLOODPLAIN
- WETLAND BOUNDARY

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	DISTURBED WETLAND AREAS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

N

6004N5A

6004N5B

ACCESS N5

CONSTRUCTED BY OTHERS

R/L N5 SB

R/L N5 NB

6002N5A

6002N5B

SLOPE INTERCEPT (TYP)

R/L BRAUN ROAD WB

MATCHLINE 139BRE+00

140BRW

142BRW

144BRW

146BRW

148BRW

150BRW

152BRW

1541

BRAUN ROAD

140BRE

142BRE

5004FC3A

5004FC3B

144BRE

146BRE

148BRE

150BRE

152BRE

1541

MATCHLINE 154BRE+00

R/L BRAUN ROAD EB

BEGIN CONSTRUCTION

STA 149BRE+84.06

X=604107.10

Y=170221.44

END PROJECT 2704-09-70

STA 149BRE+84.06

X=604107.10

Y=170221.44

R/L FC3 SB

R/L FC3 NB

5002FC3A

5002FC3B ACCESS FC3

CONSTRUCTED BY OTHERS

WETLAND BOUNDARY (TYP)

LEGEND

DISTURBED WETLAND AREA

SLOPE INTERCEPT

FLOODPLAIN

WETLAND BOUNDARY

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	DISTURBED WETLAND AREAS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBraun\t14.26x22185.25w.25gnAM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD

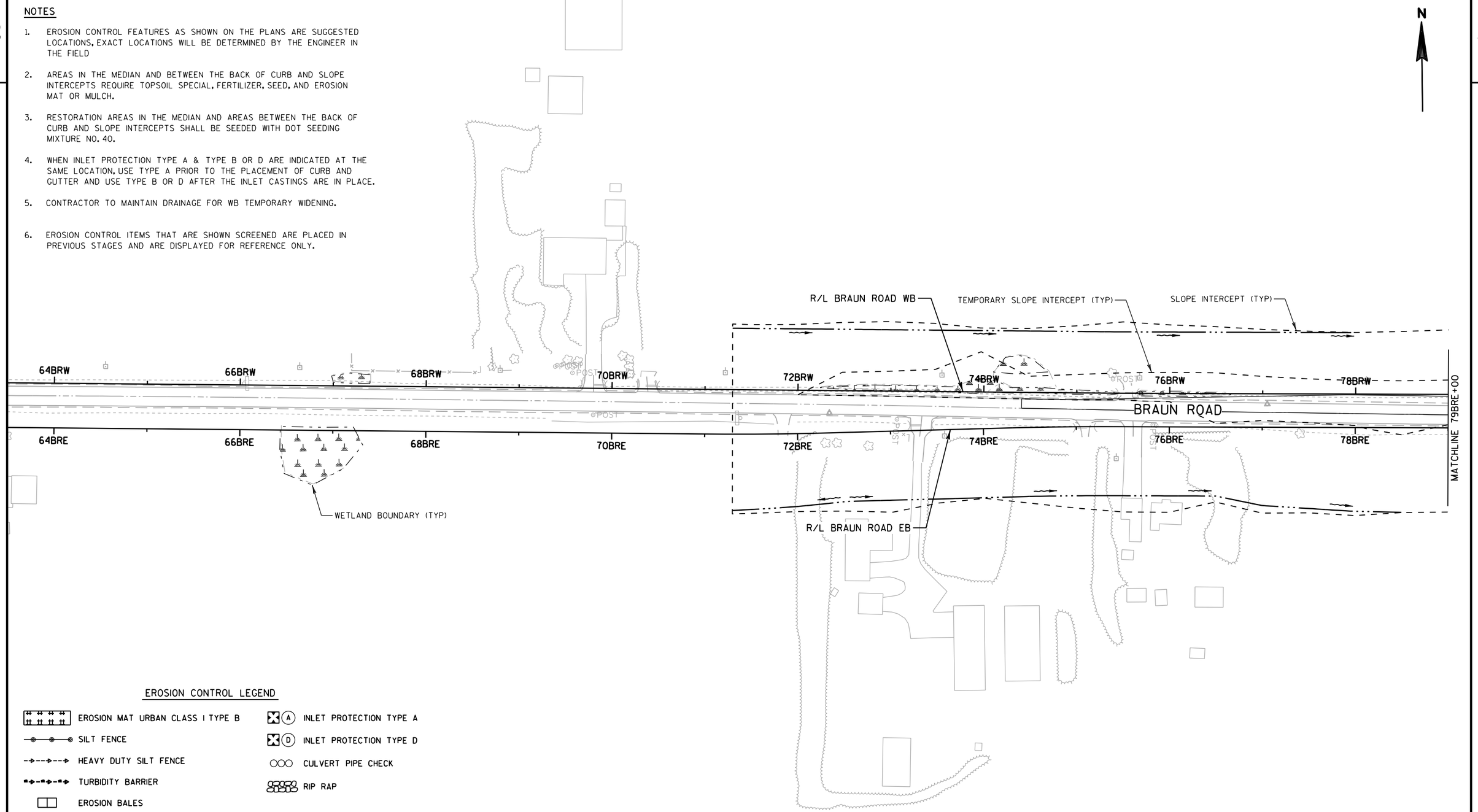
2. AREAS IN THE MEDIAN AND BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT OR MULCH.

3. RESTORATION AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS SHALL BE SEEDED WITH DOT SEEDING MIXTURE NO. 40.

4. WHEN INLET PROTECTION TYPE A & TYPE B OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B OR D AFTER THE INLET CASTINGS ARE IN PLACE.

5. CONTRACTOR TO MAINTAIN DRAINAGE FOR WB TEMPORARY WIDENING.

6. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.



EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1A	SHEET 74	E

2

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD

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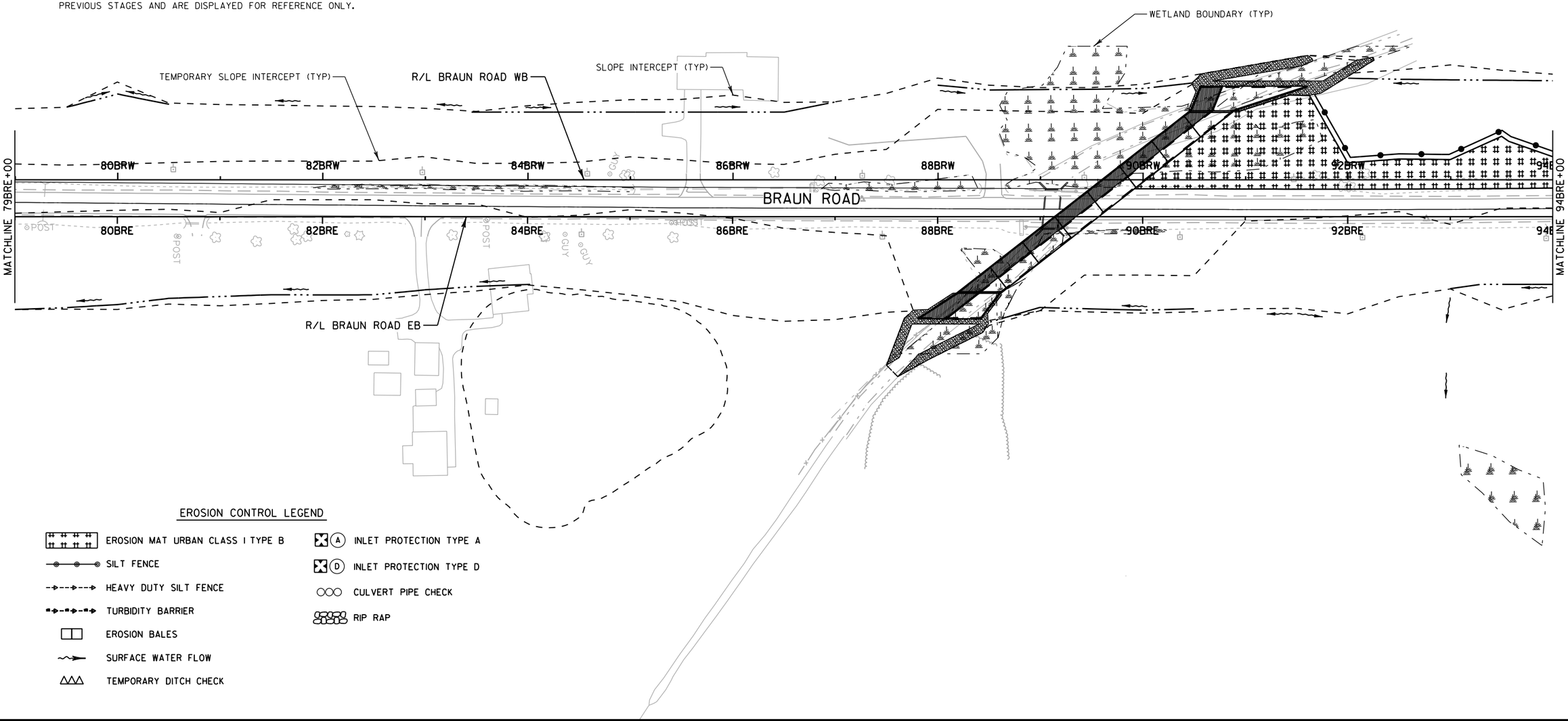
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5. CONTRACTOR TO MAINTAIN DRAINAGE FOR WB TEMPORARY WIDENING.

6. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

N

2



EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

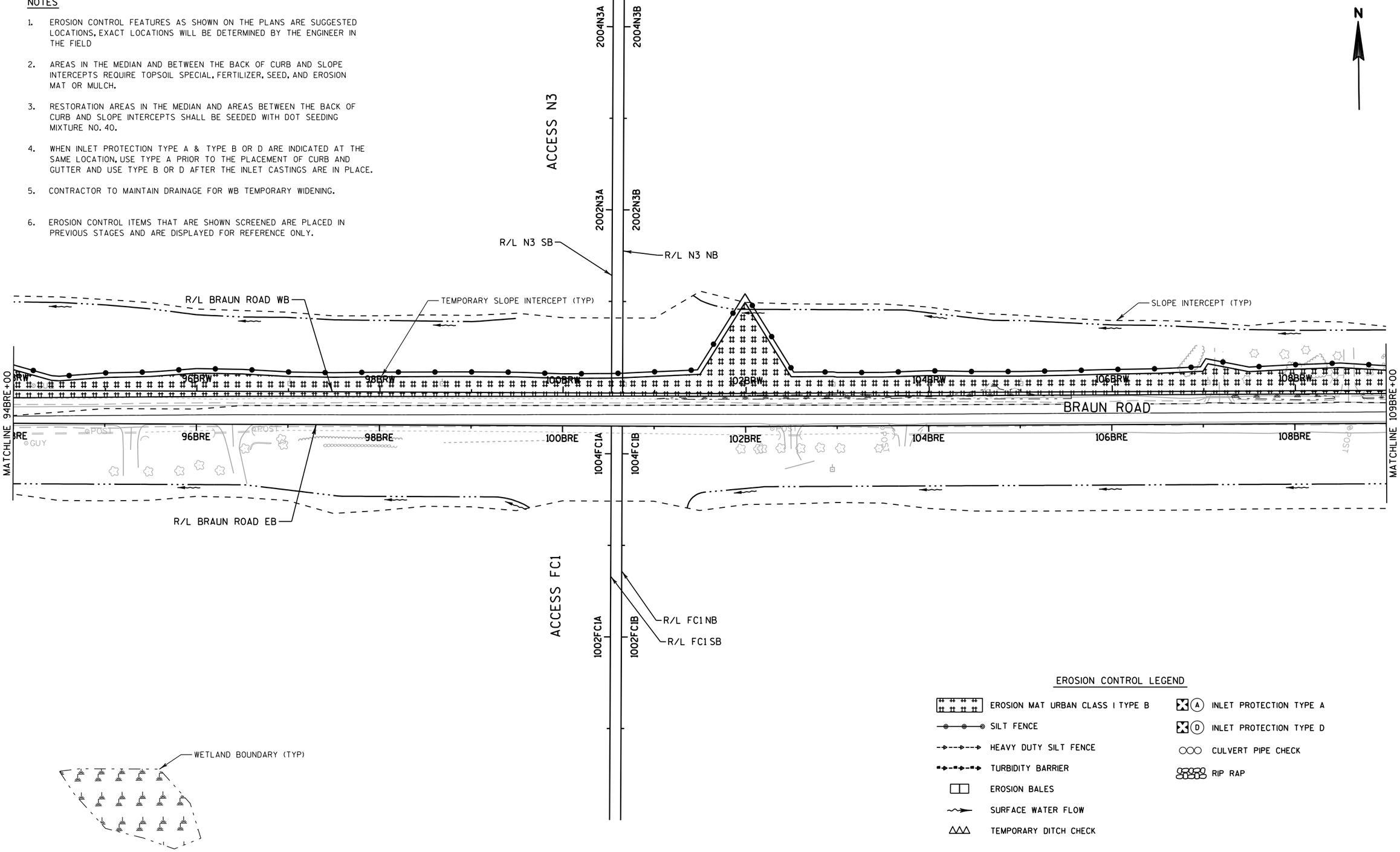
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1A	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD4JE\14.26x22802.46.45.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD
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4. WHEN INLET PROTECTION TYPE A & TYPE B OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B OR D AFTER THE INLET CASTINGS ARE IN PLACE.
5. CONTRACTOR TO MAINTAIN DRAINAGE FOR WB TEMPORARY WIDENING.
6. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1A	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOT DATE : 14 Jun 2023 3:46:51 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

2

NOTES

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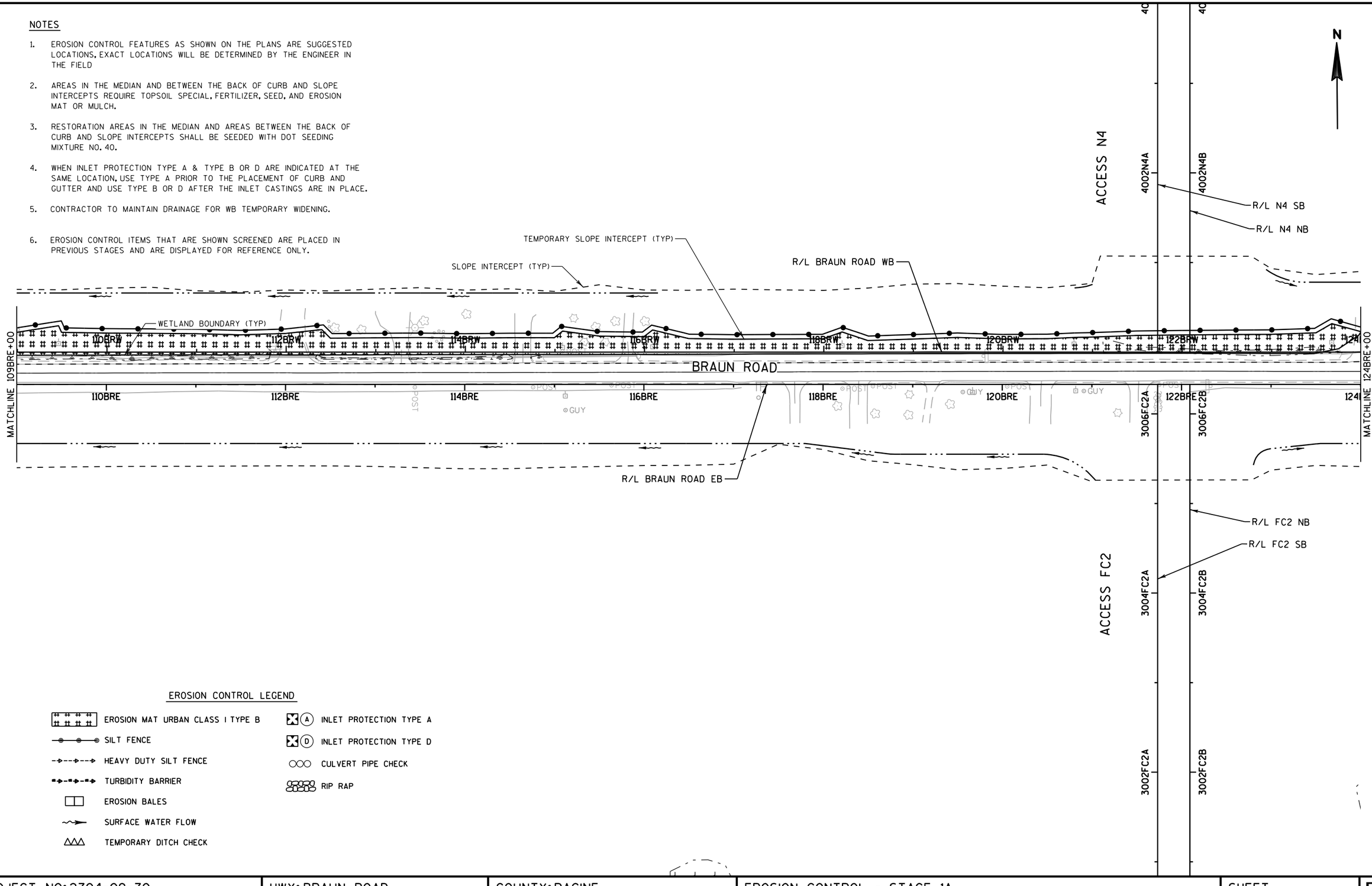
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EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1A	SHEET 77	E

2

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD

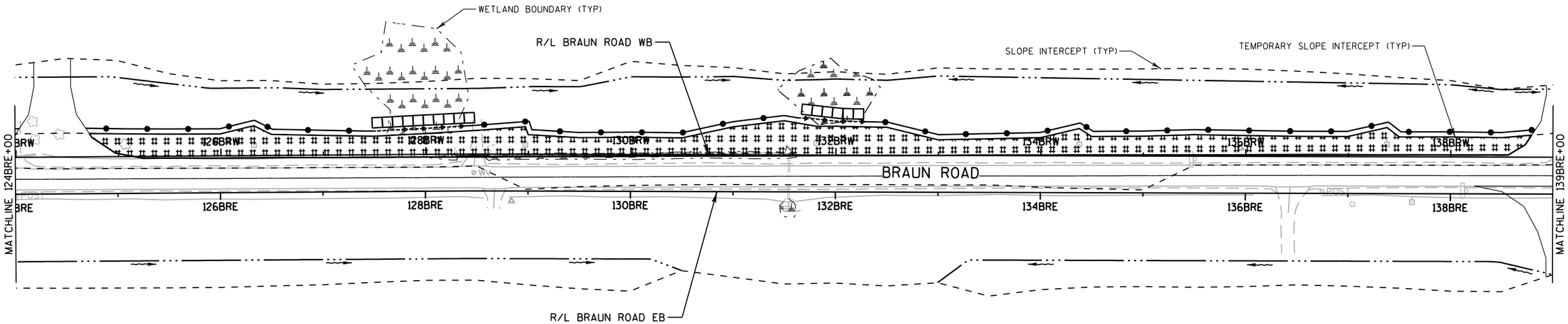
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EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1A	SHEET 78	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040PLOT DATE : 14 Jun 2023 3:46:58 PM
PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

N

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD
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5. CONTRACTOR TO MAINTAIN DRAINAGE FOR WB TEMPORARY WIDENING.
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ACCESS N5

6004N5A

6004N5B

6002N5A

6002N5B

R/L N5 NB

R/L N5 SB

SLOPE INTERCEPT (TYP)

TEMPORARY SLOPE INTERCEPT (TYP)

R/L BRAUN ROAD WB

140BRW 142BRW 144BRW 146BRW 148BRW 150BRW 152BRW 154

BRAUN ROAD

MATCHLINE 139BRE+00

140BRE 142BRE 144BRE 146BRE 148BRE 150BRE 152BRE 154

MATCHLINE 154BRE+00

5004FC3A

5004FC3B

R/L BRAUN ROAD EB

ACCESS FC3

R/L FC3 NB

R/L FC3 SB

5002FC3A

5002FC3B

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

WETLAND BOUNDARY (TYP)

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1A	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBraun\t14_26x22803_ec_02.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

2

NOTES

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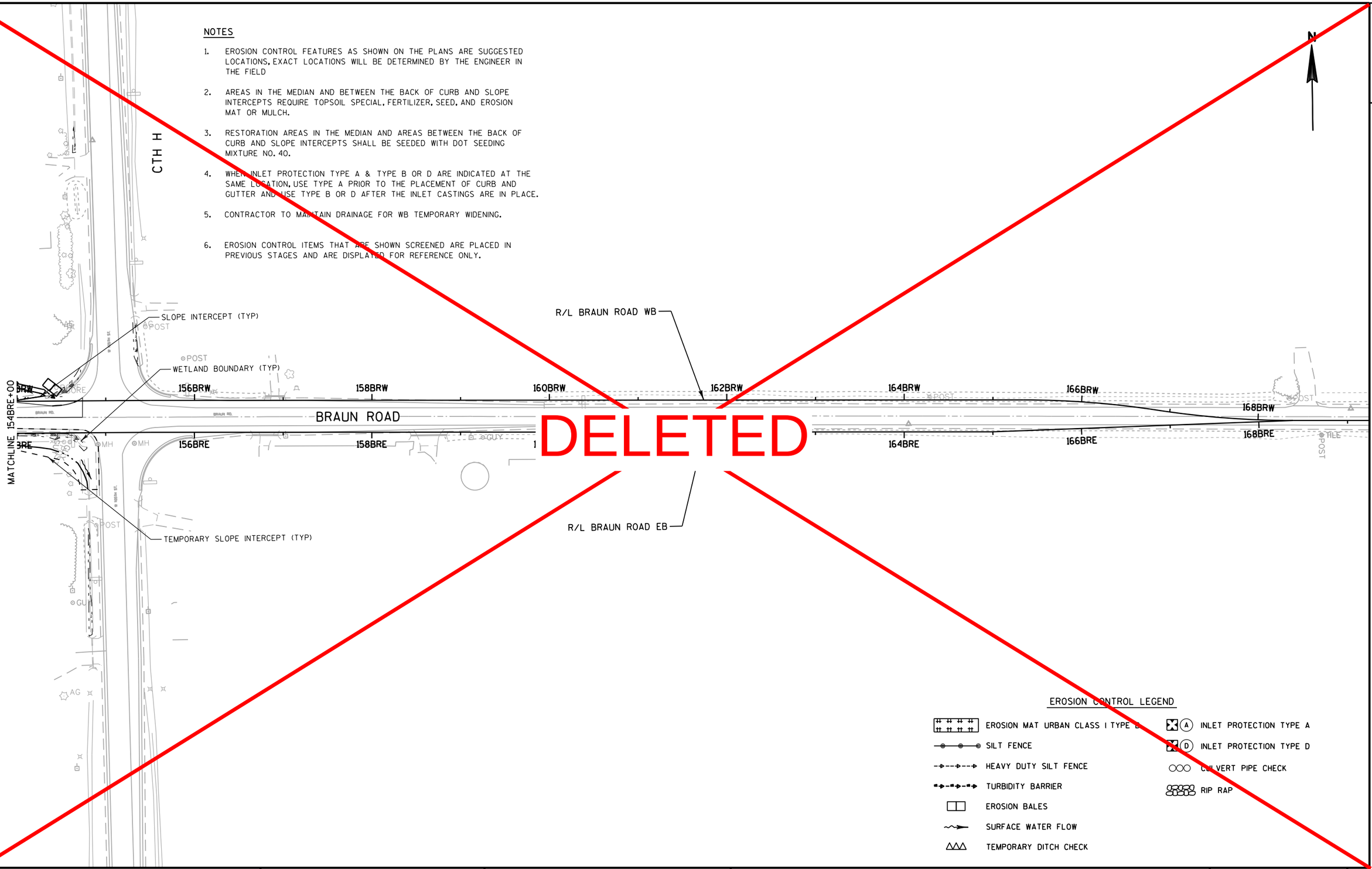
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5. CONTRACTOR TO MAINTAIN DRAINAGE FOR WB TEMPORARY WIDENING.

6. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.



EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1A	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD\Plots\14x26x20220803c413c0319dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

2

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD

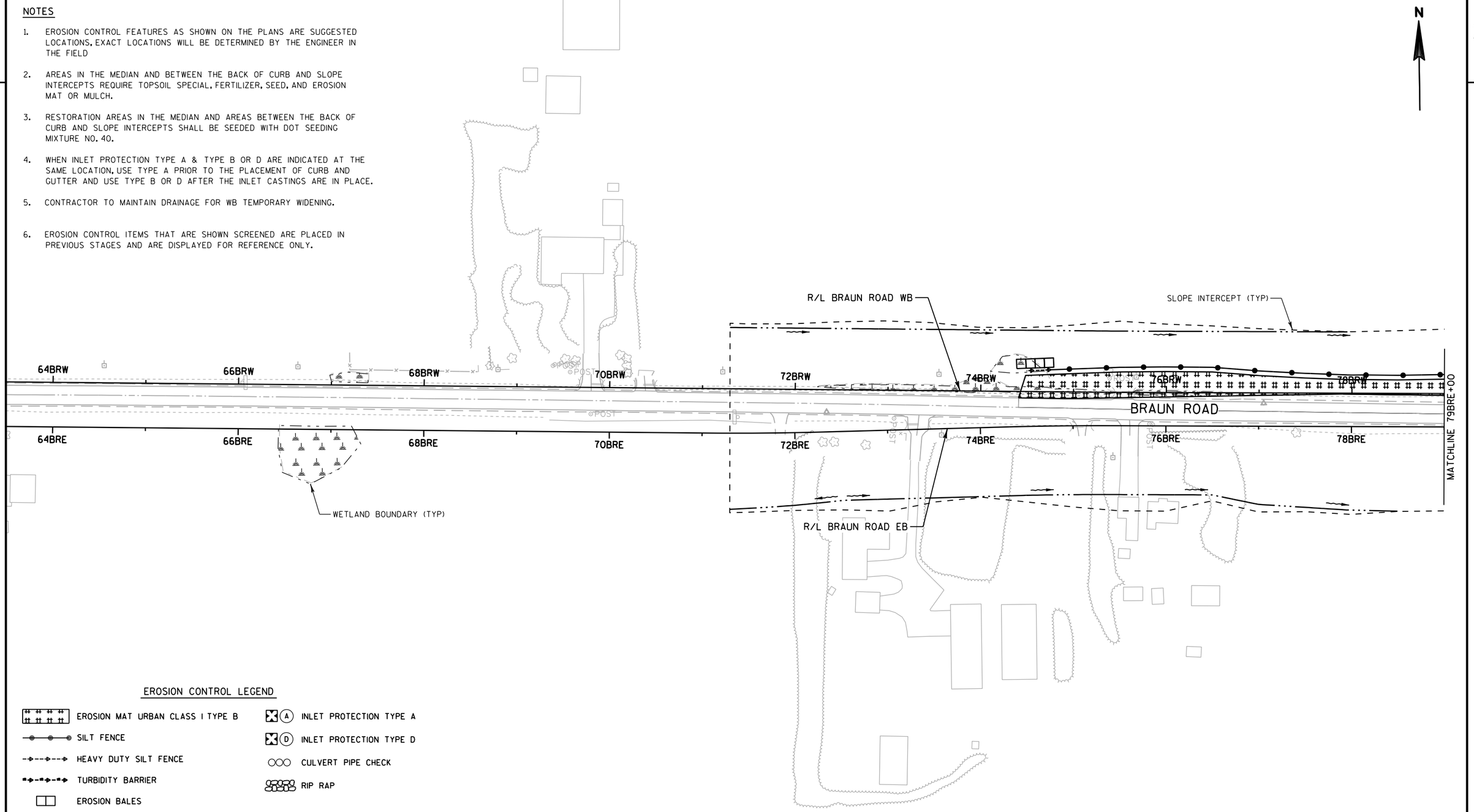
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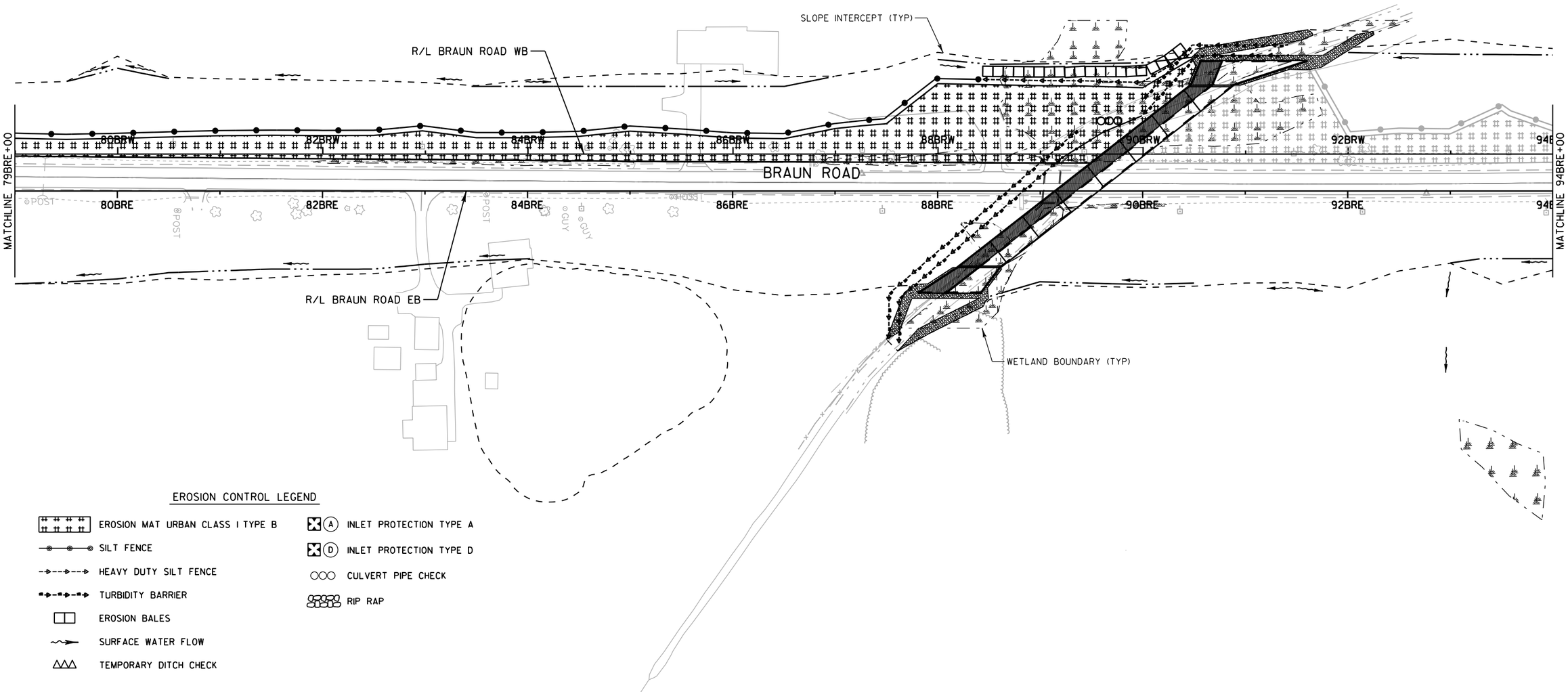
EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1B	SHEET 81	E

NOTES

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5. CONTRACTOR TO MAINTAIN DRAINAGE FOR WB TEMPORARY WIDENING.
6. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.



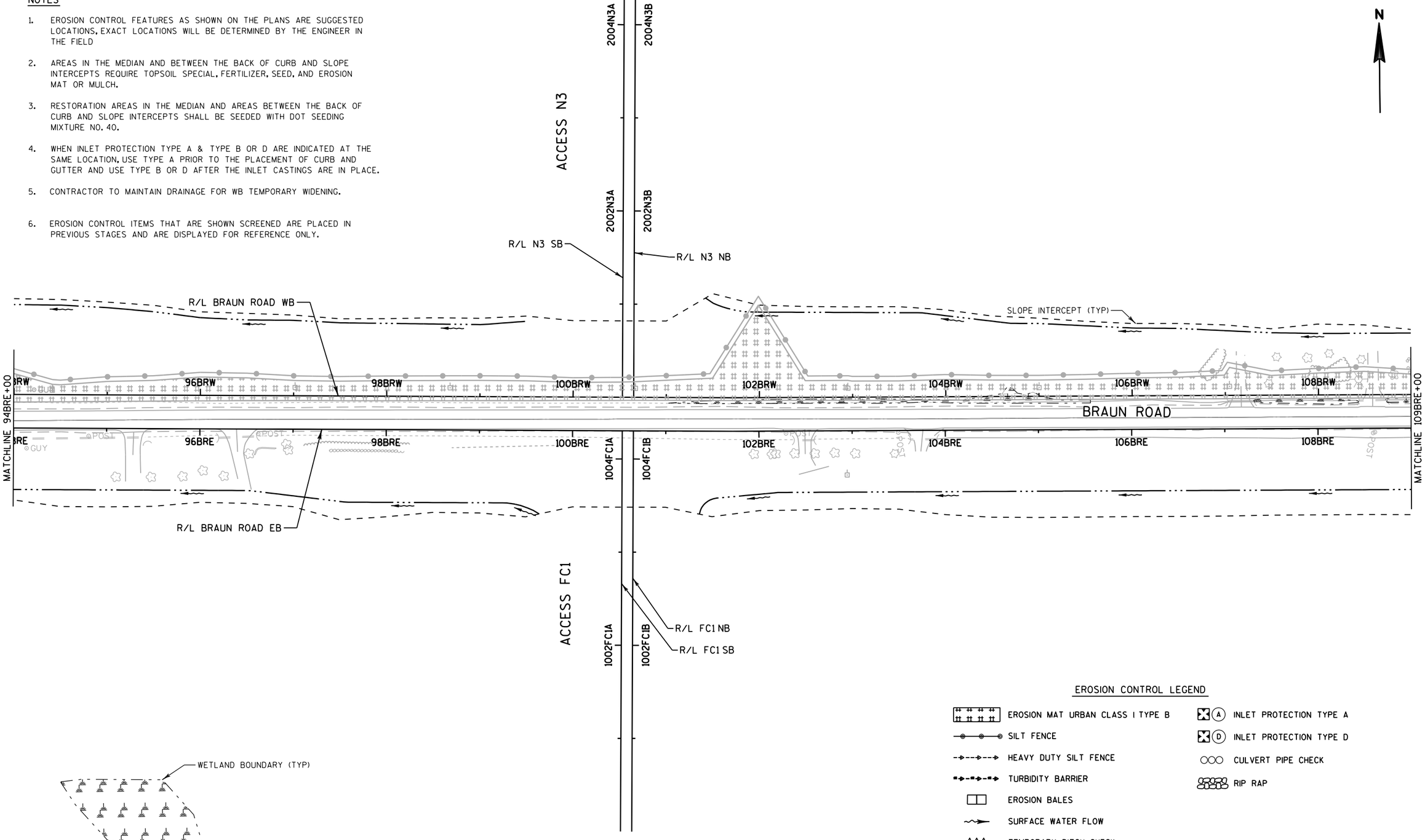
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1B	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD01.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD
2. AREAS IN THE MEDIAN AND BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT OR MULCH.
3. RESTORATION AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS SHALL BE SEEDED WITH DOT SEEDING MIXTURE NO. 40.
4. WHEN INLET PROTECTION TYPE A & TYPE B OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B OR D AFTER THE INLET CASTINGS ARE IN PLACE.
5. CONTRACTOR TO MAINTAIN DRAINAGE FOR WB TEMPORARY WIDENING.
6. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.



EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1B	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOT DATE : 14 Jun 2023 12:24 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

2

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD

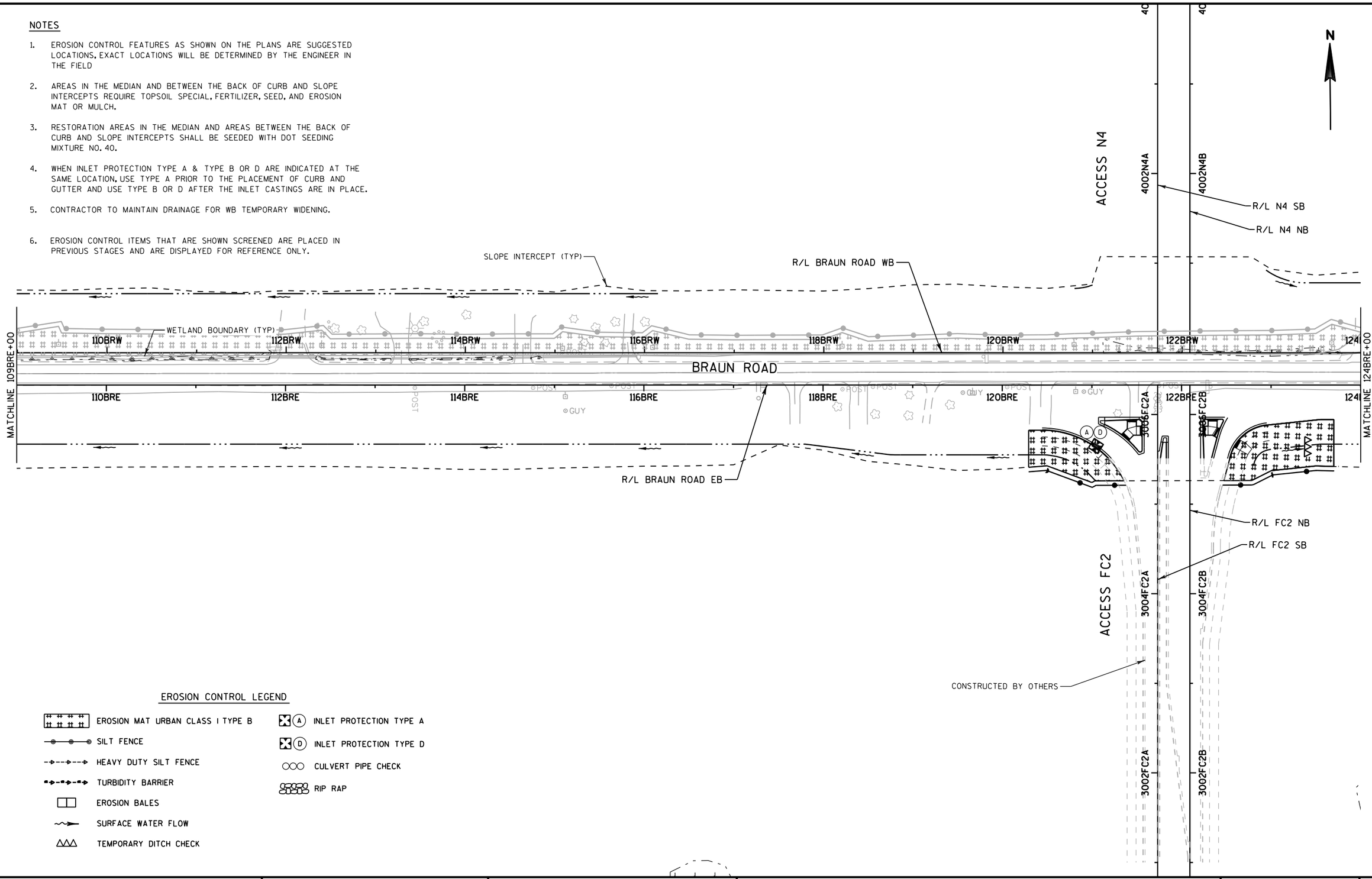
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5. CONTRACTOR TO MAINTAIN DRAINAGE FOR WB TEMPORARY WIDENING.

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EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1B	SHEET 84	E

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD

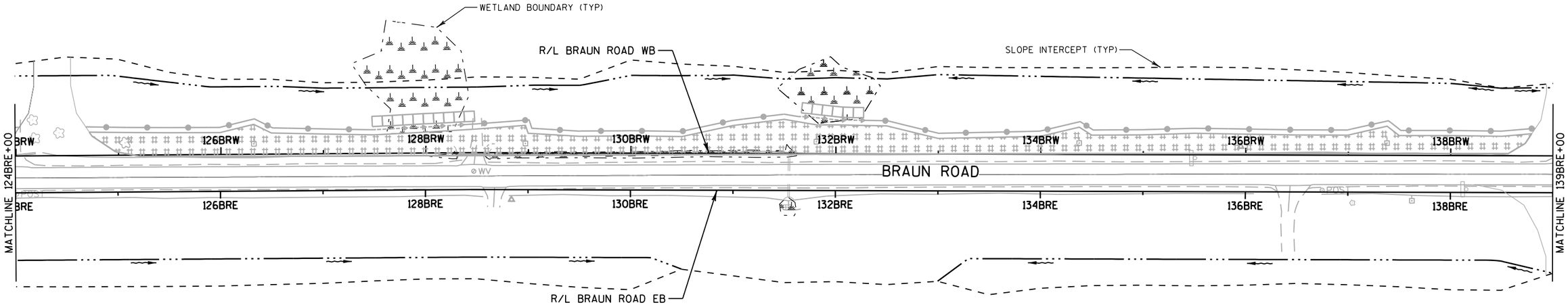
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EROSION CONTROL LEGEND

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- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1B	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

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N

ACCESS N5

6004N5A

6004N5B

6002N5A

6002N5B

R/L N5 NB

R/L N5 SB

SLOPE INTERCEPT (TYP)

R/L BRAUN ROAD WB

140BRW 142BRW 144BRW 146BRW 148BRW 150BRW 152BRW 154

MATCHLINE 139BRE+00

140BRE 142BRE 144BRE 146BRE 148BRE 150BRE 152BRE 154

MATCHLINE 154BRE+00

BRAUN ROAD

R/L BRAUN ROAD EB

5004FC3A

5004FC3B

ACCESS FC3

5002FC3A

5002FC3B

R/L FC3 NB

R/L FC3 SB

CONSTRUCTED BY OTHERS

EROSION CONTROL LEGEND

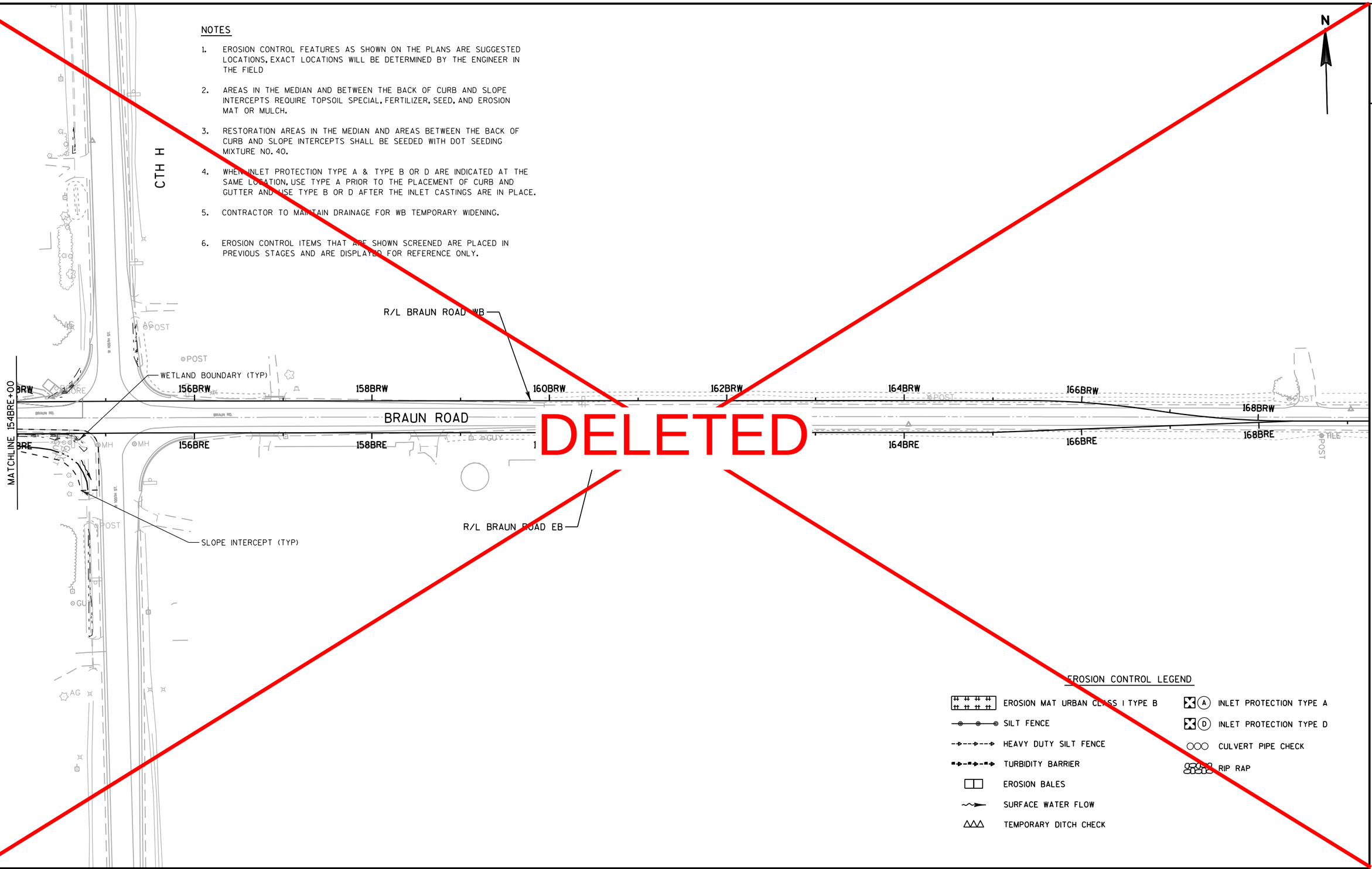
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

WETLAND BOUNDARY (TYP)

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1B	SHEET 86	E

NOTES

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EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1B	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040970BD01\t14c26x2228120ct13bv.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

2

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD

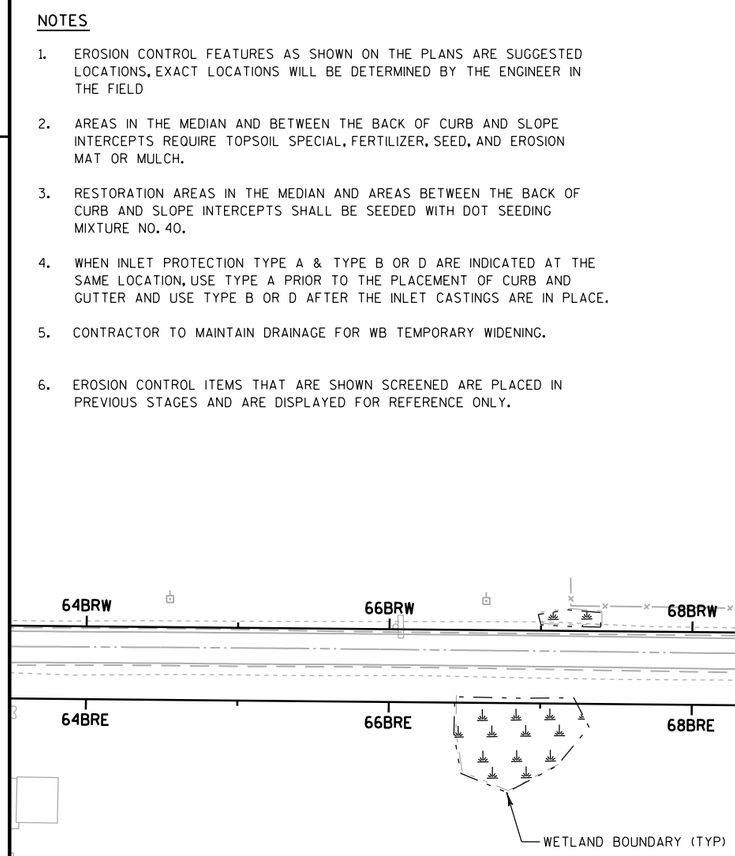
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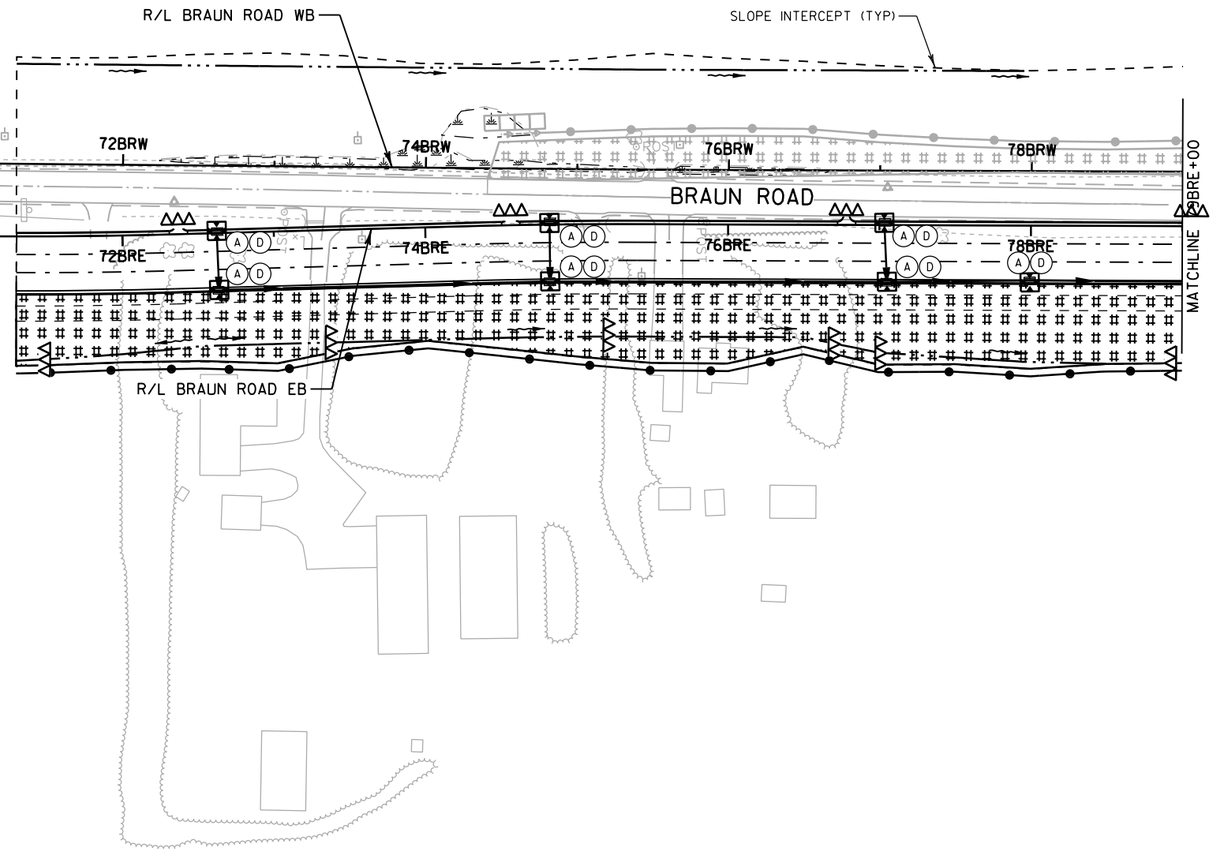
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- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1C	SHEET 88	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040[illegible] PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD

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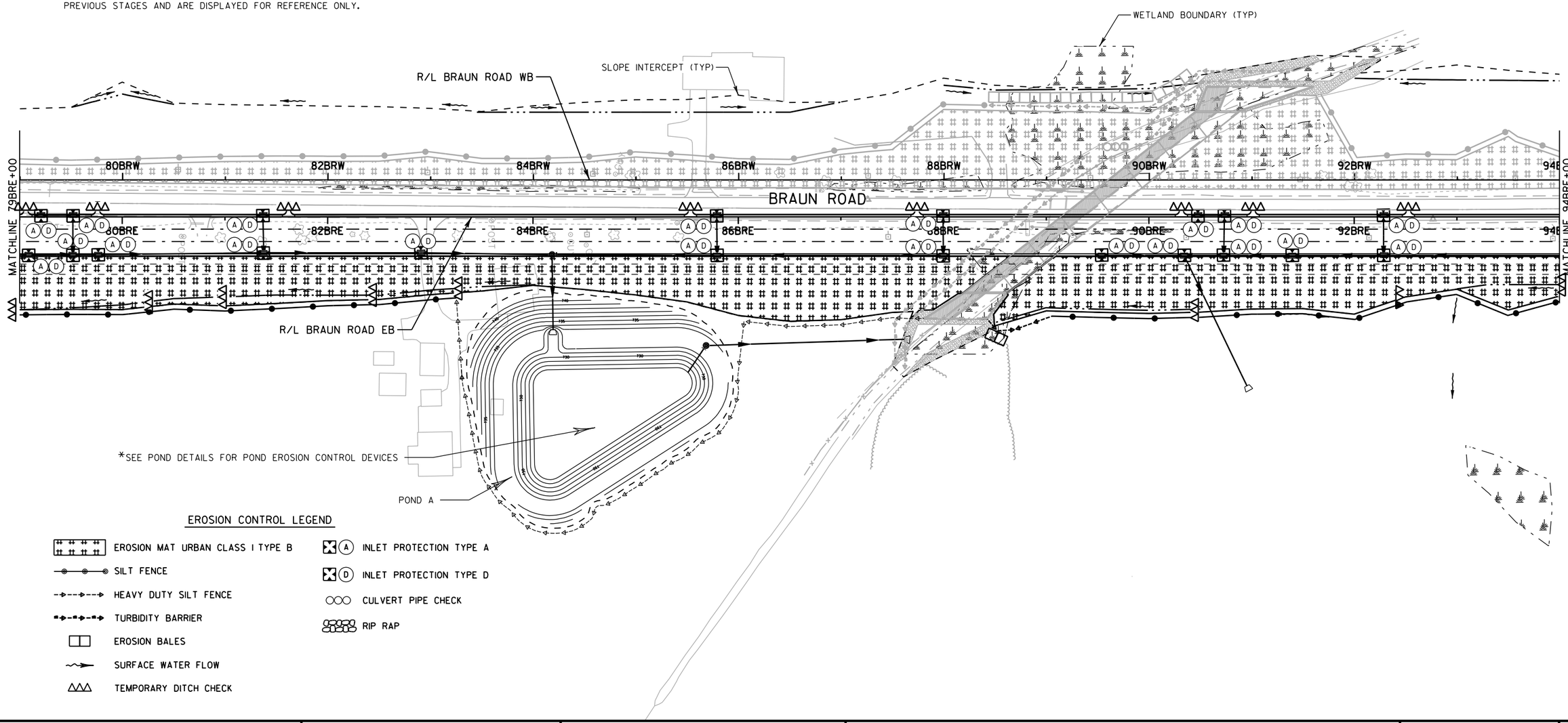
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N



EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

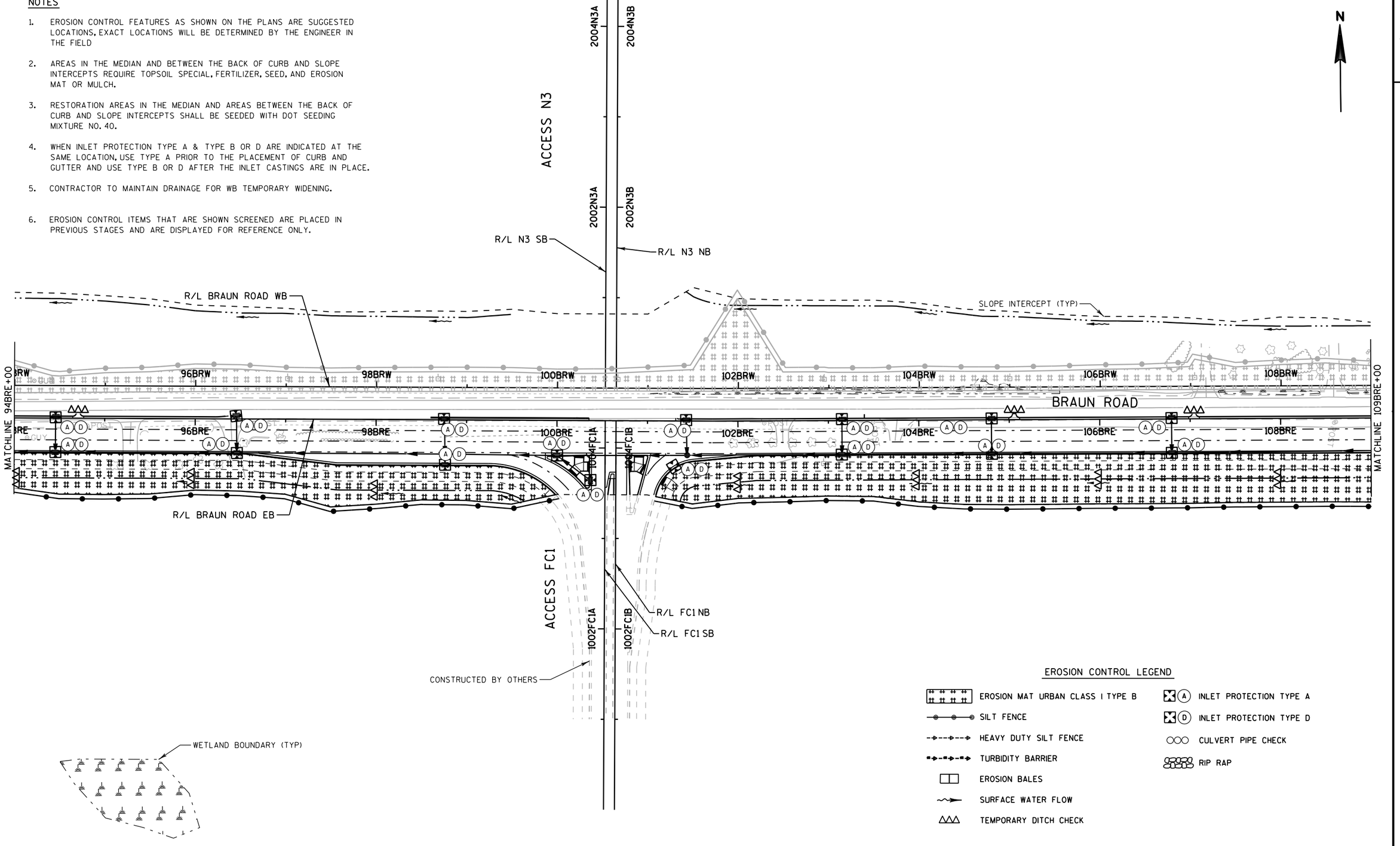
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1C	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

NOTES

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EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1C	SHEET 90	E

2

NOTES

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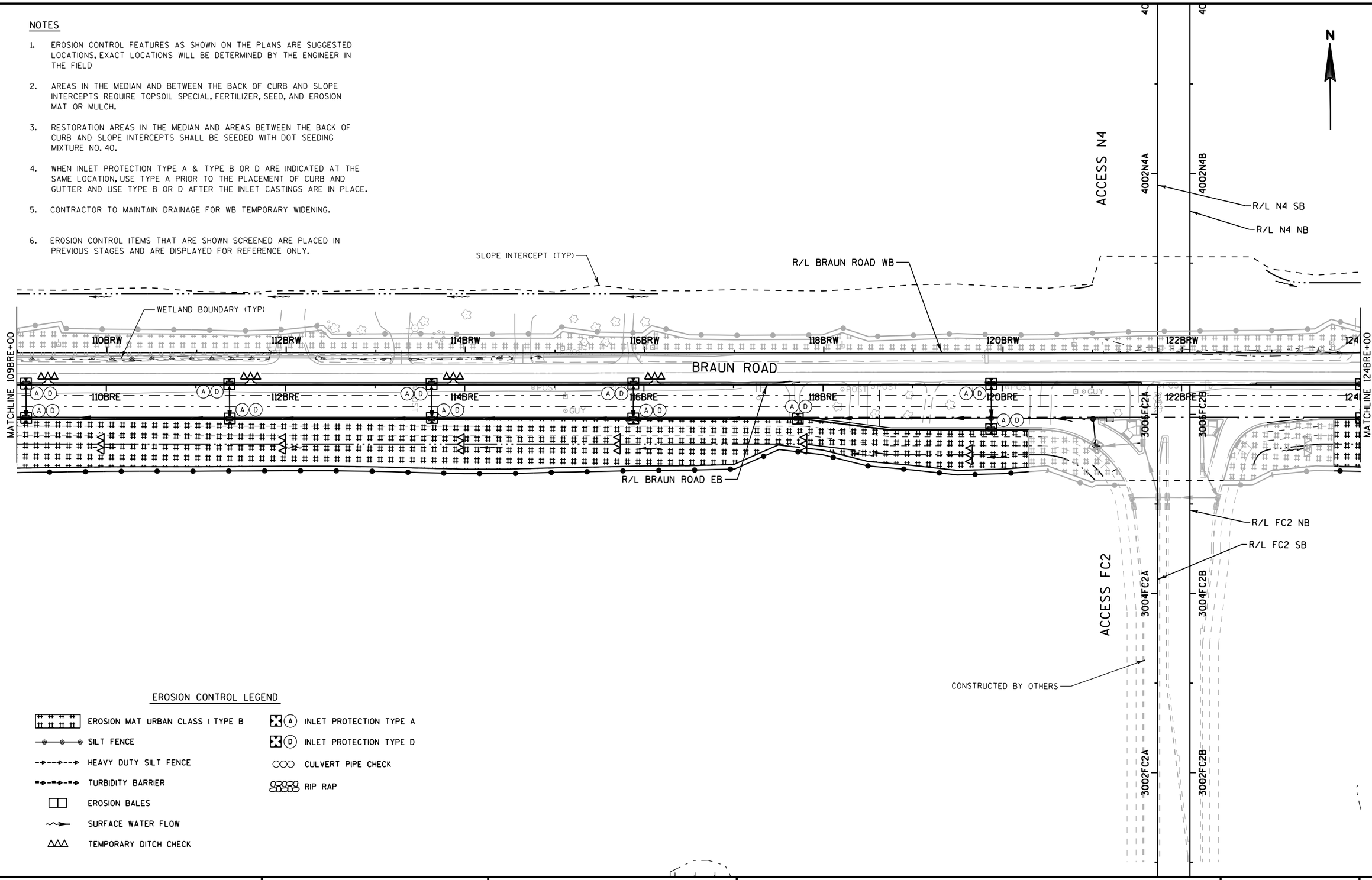
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- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1C	SHEET 91	E

NOTES

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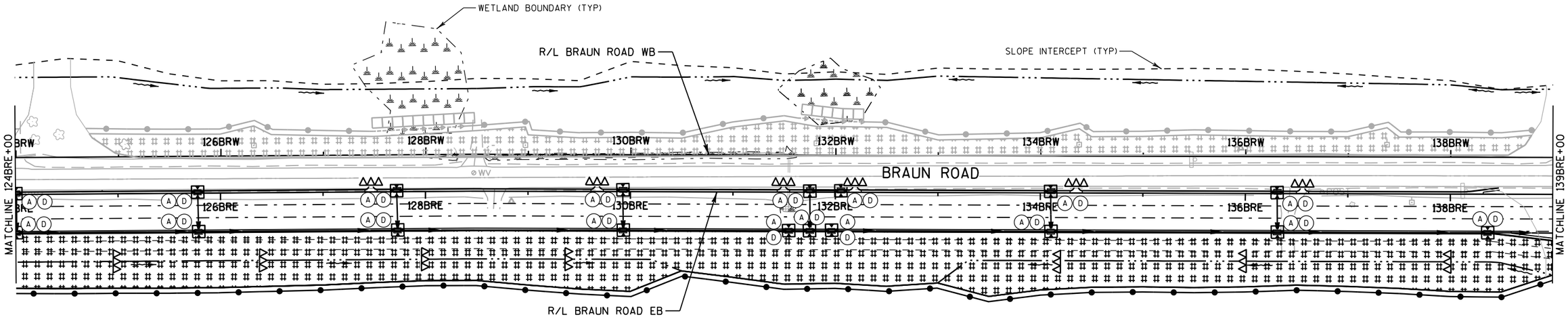
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- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1C	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOT DATE : 14 Dec 2022 7:46:37 AM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

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N

ACCESS N5

6004N5A | 6004N5B

6002N5A | 6002N5B

R/L N5 NB

R/L N5 SB

SLOPE INTERCEPT (TYP)

R/L BRAUN ROAD WB

BRAUN ROAD

140BRW | 142BRW | 144BRW | 146BRW | 148BRW | 150BRW | 152BRW | 154

MATCHLINE 139BRE+00

140BRE | 142BRE | 144BRE | 145BRE | 148BRE | 150BRE | 152BRE | 154

MATCHLINE 154BRE+00

5004FC3A | 5004FC3B

R/L BRAUN ROAD EB

ACCESS FC3

R/L FC3 NB

R/L FC3 SB

5002FC3A | 5002FC3B

CONSTRUCTED BY OTHERS

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

WETLAND BOUNDARY (TYP)

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1C	SHEET 93	E

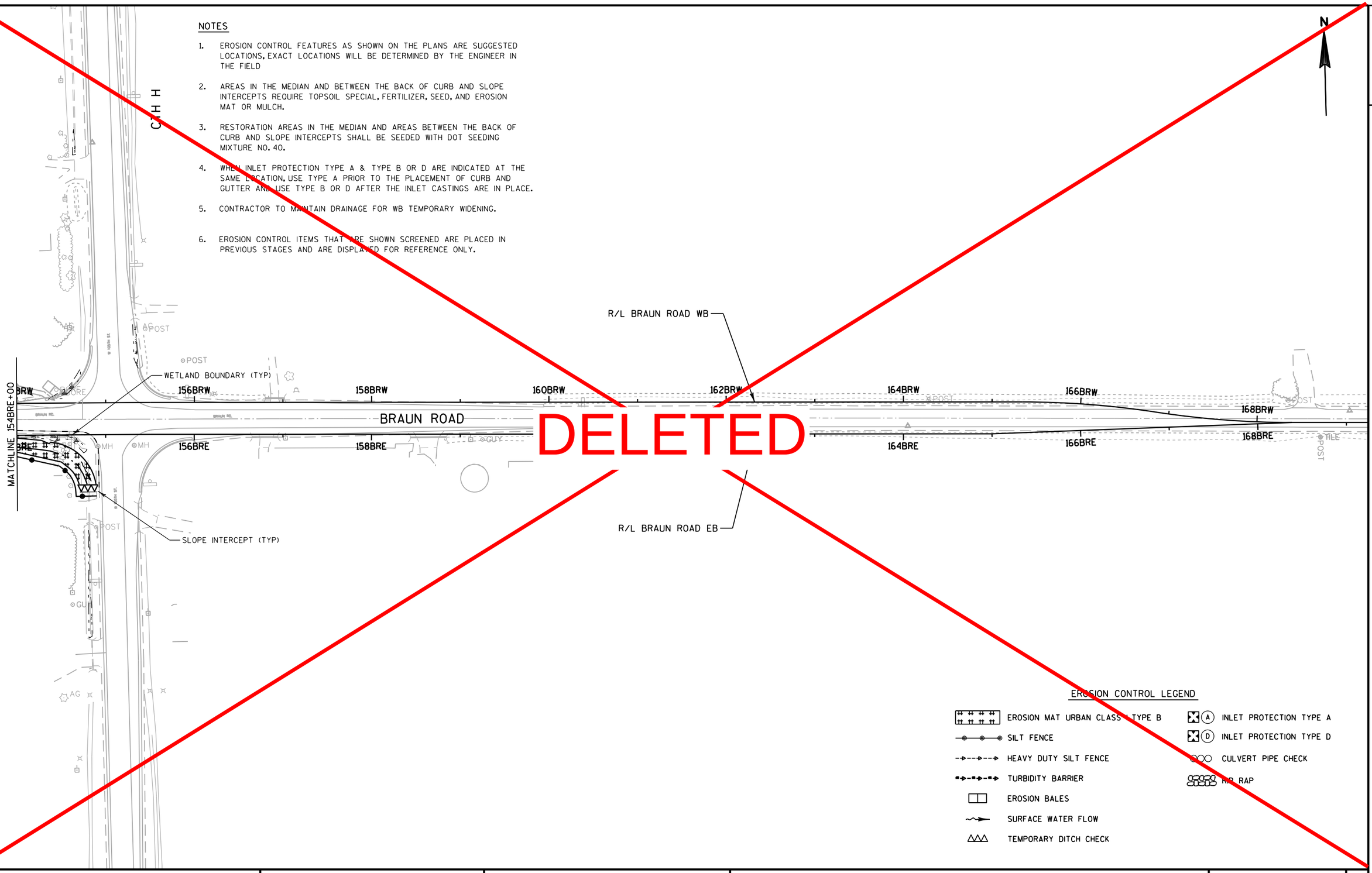
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040901TBD.dgn | PLOT DATE : 14 Jun 2022 13:48:51 | PLOT BY : dbaumann | PLOT NAME : | PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

NOTES

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EROSION CONTROL LEGEND

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- TURBIDITY BARRIER
- EROSION BALES
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- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 1C	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD4.dgn PLOT DATE : 14 JUN 2022 13:46:16 PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD

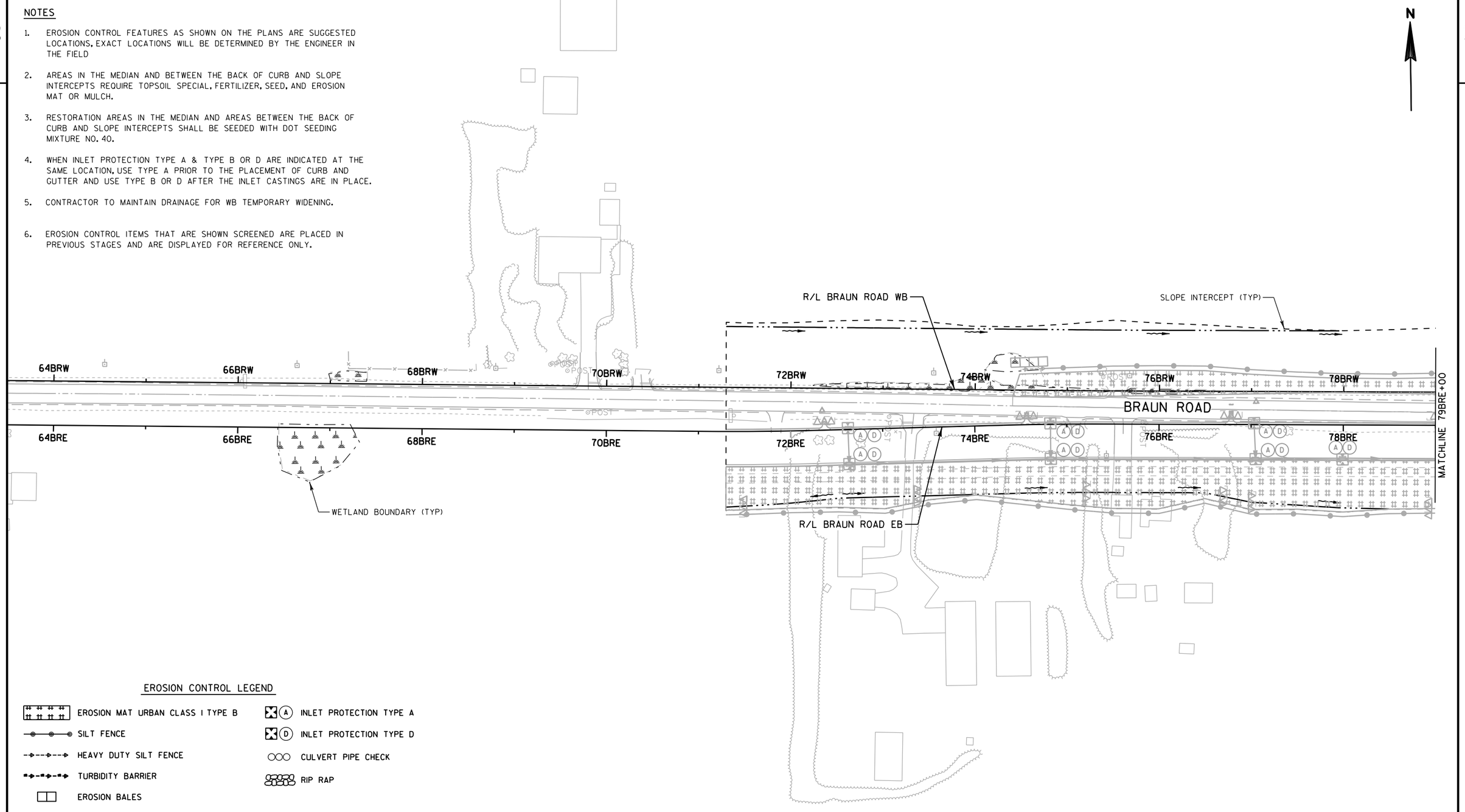
2. AREAS IN THE MEDIAN AND BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT OR MULCH.

3. RESTORATION AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS SHALL BE SEEDED WITH DOT SEEDING MIXTURE NO. 40.

4. WHEN INLET PROTECTION TYPE A & TYPE B OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B OR D AFTER THE INLET CASTINGS ARE IN PLACE.

5. CONTRACTOR TO MAINTAIN DRAINAGE FOR WB TEMPORARY WIDENING.

6. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.



EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 2A	SHEET 95	E

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD

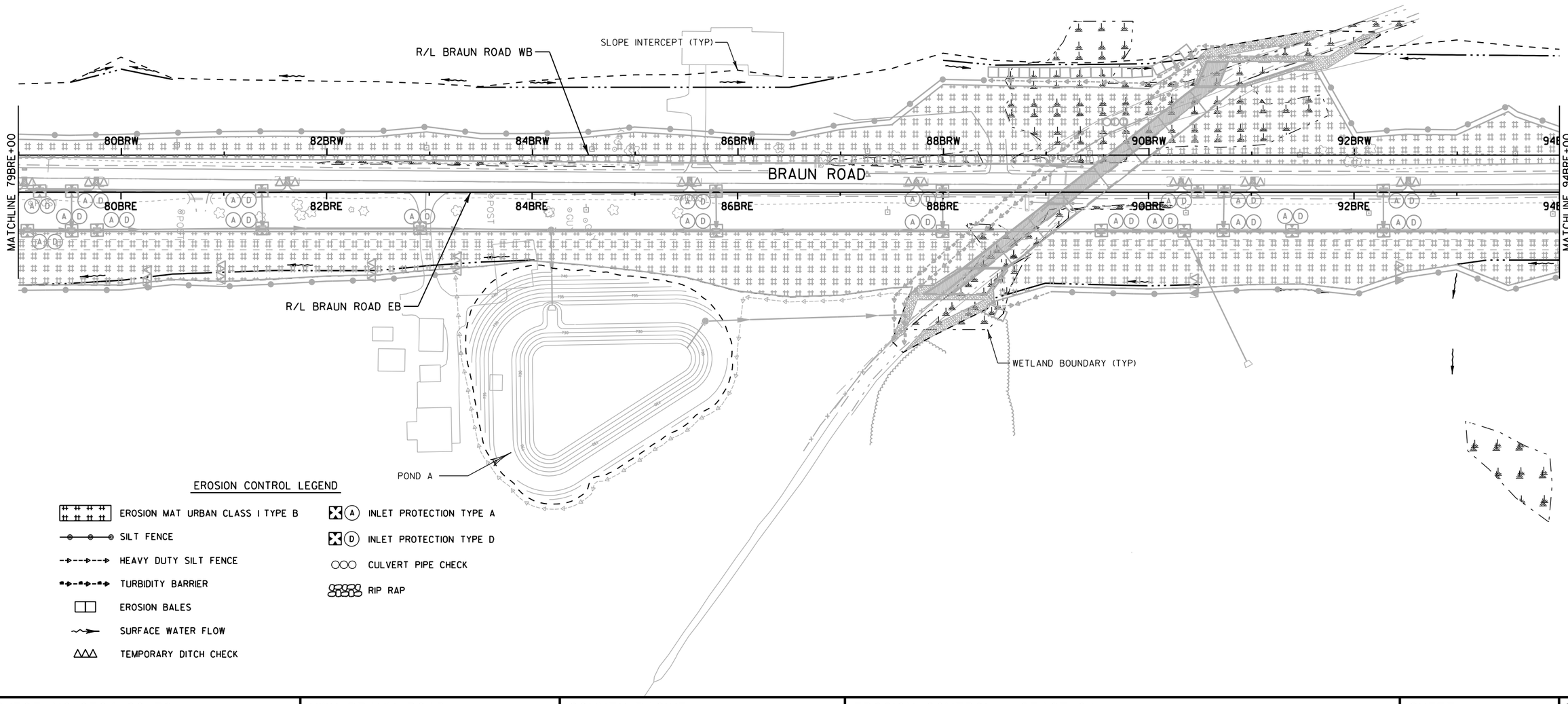
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3. RESTORATION AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS SHALL BE SEEDED WITH DOT SEEDING MIXTURE NO. 40.

4. WHEN INLET PROTECTION TYPE A & TYPE B OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B OR D AFTER THE INLET CASTINGS ARE IN PLACE.

5. CONTRACTOR TO MAINTAIN DRAINAGE FOR WB TEMPORARY WIDENING.

6. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

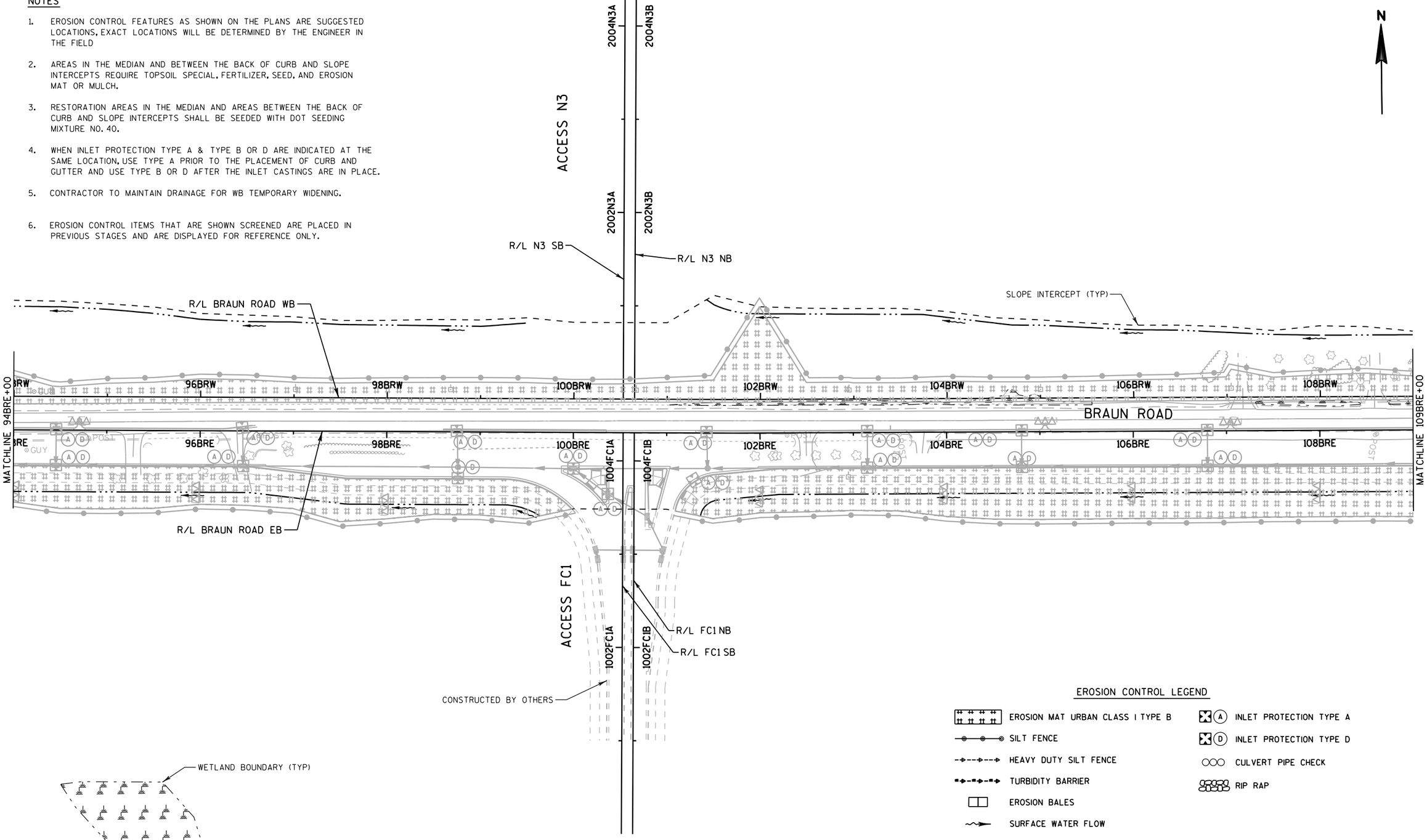


PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 2A	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040901TBD.dgn PLOT DATE : 14 Dec 2022 02:48:22 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1
WISDOT/CADDS SHEET 42

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD
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4. WHEN INLET PROTECTION TYPE A & TYPE B OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B OR D AFTER THE INLET CASTINGS ARE IN PLACE.
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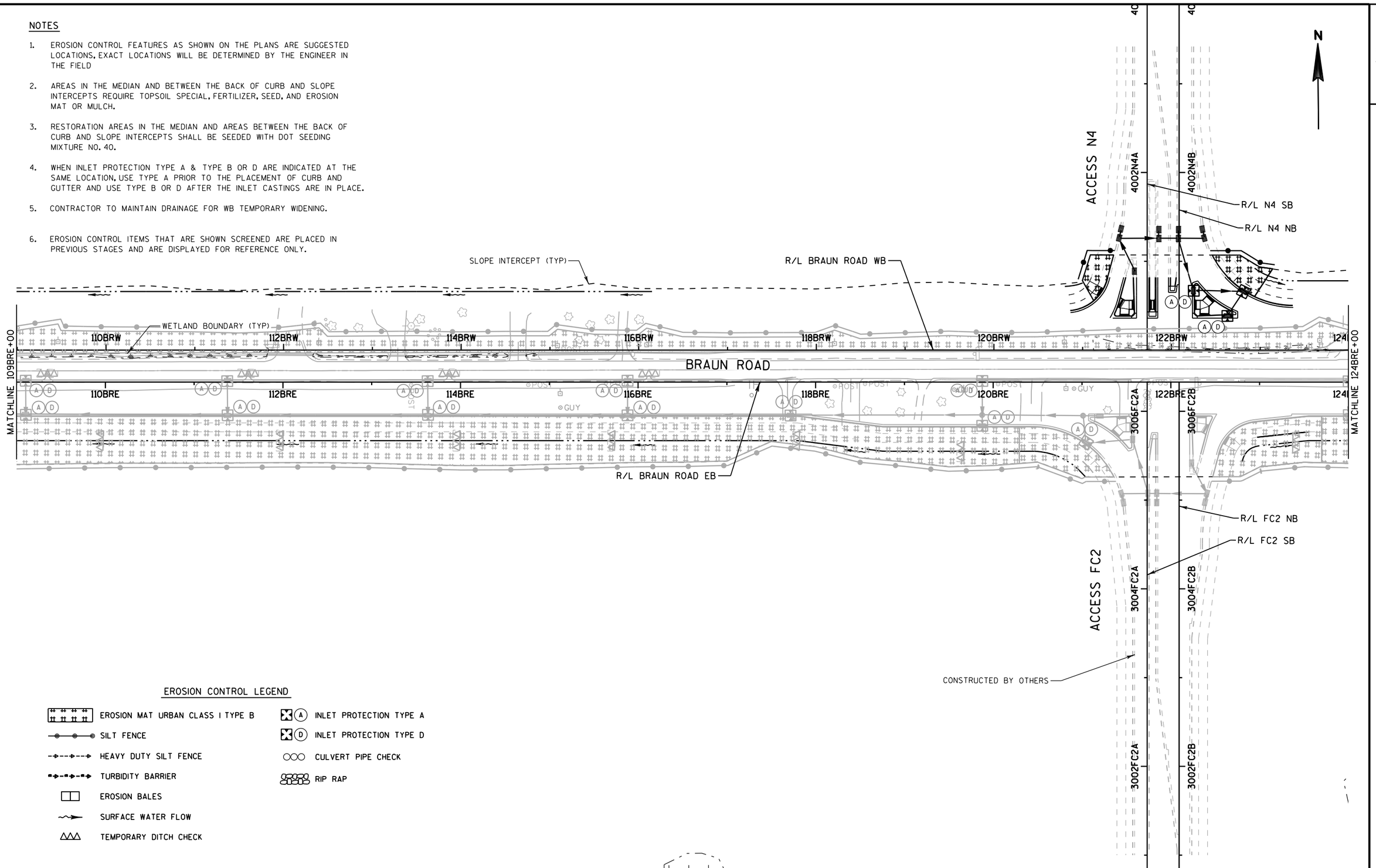
EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 2A	SHEET 97	E

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD
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6. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.



EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 2A	SHEET 98	E

2

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD

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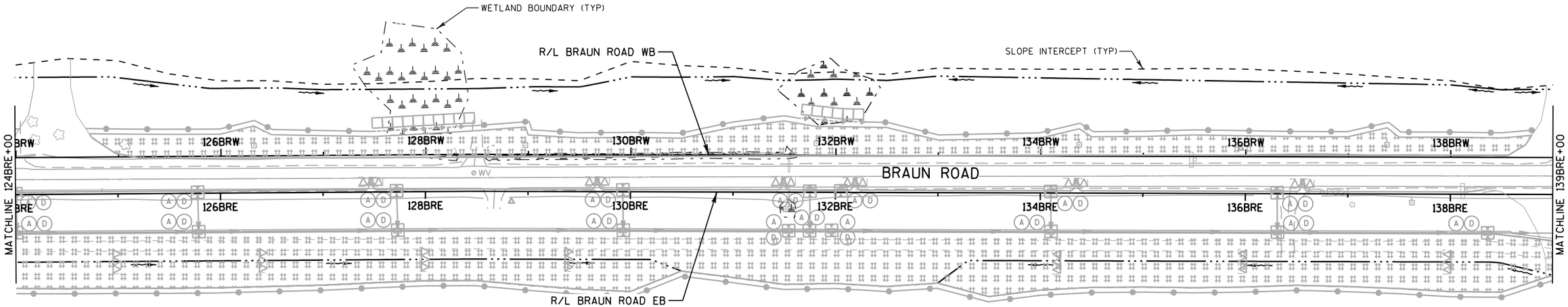
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5. CONTRACTOR TO MAINTAIN DRAINAGE FOR WB TEMPORARY WIDENING.

6. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

N

2



EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 2A	SHEET 99	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD

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6. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

N

ACCESS N5

6004N5A

6004N5B

6002N5A

6002N5B

R/L N5 NB

R/L N5 SB

SLOPE INTERCEPT (TYP)

R/L BRAUN ROAD WB

BRAUN ROAD

MATCHLINE 139BRE+00

140BRE

142BRE

144BRE

146BRE

148BRE

150BRE

152BRE

154

MATCHLINE 154BRE+00

140BRW

142BRW

144BRW

146BRW

148BRW

150BRW

152BRW

154

5004FC3A

5004FC3B

5002FC3A

5002FC3B

R/L BRAUN ROAD EB

ACCESS FC3

R/L FC3 NB

R/L FC3 SB

CONSTRUCTED BY OTHERS

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

WETLAND BOUNDARY (TYP)

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 2A	SHEET 100	E

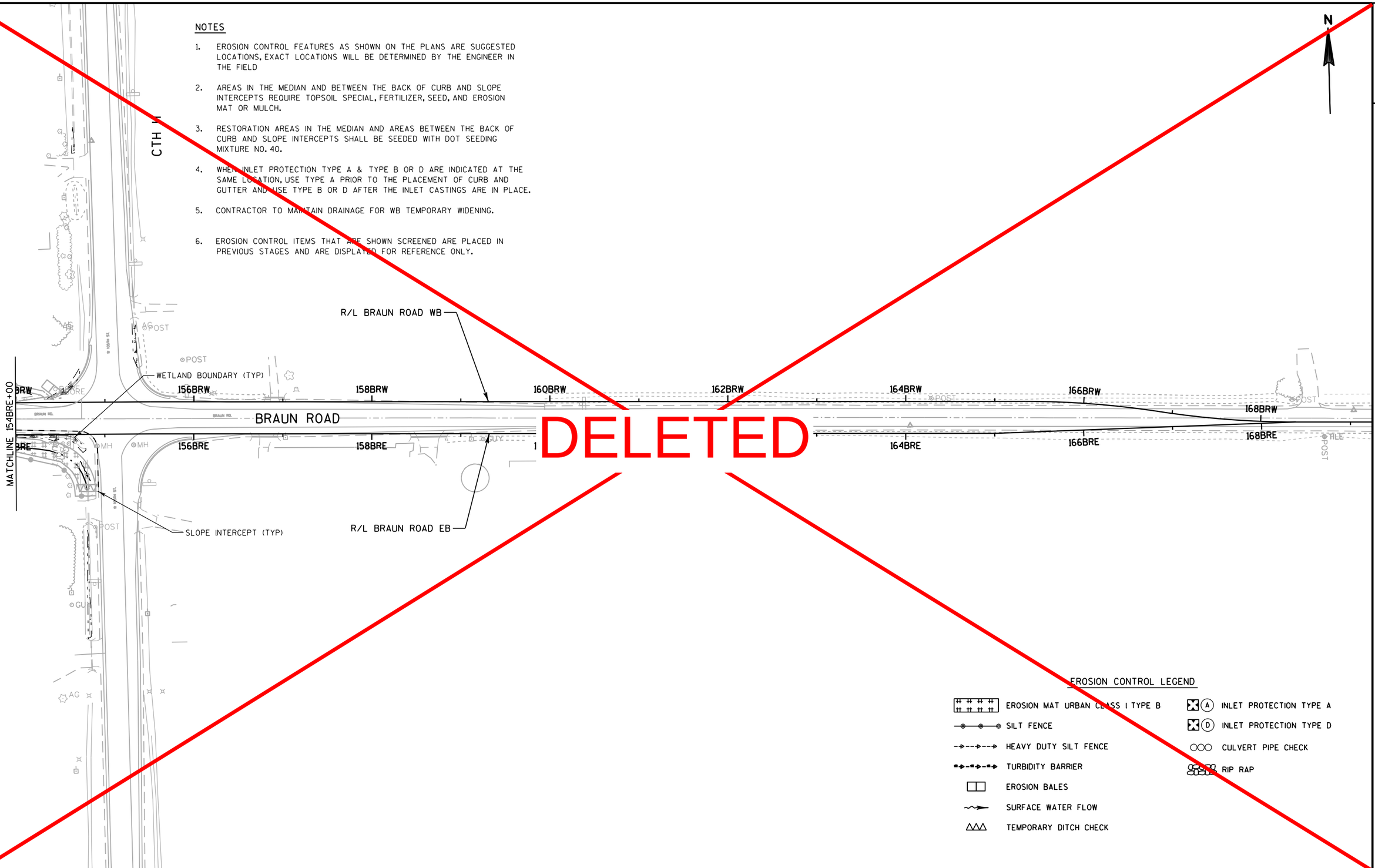
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

NOTES

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EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

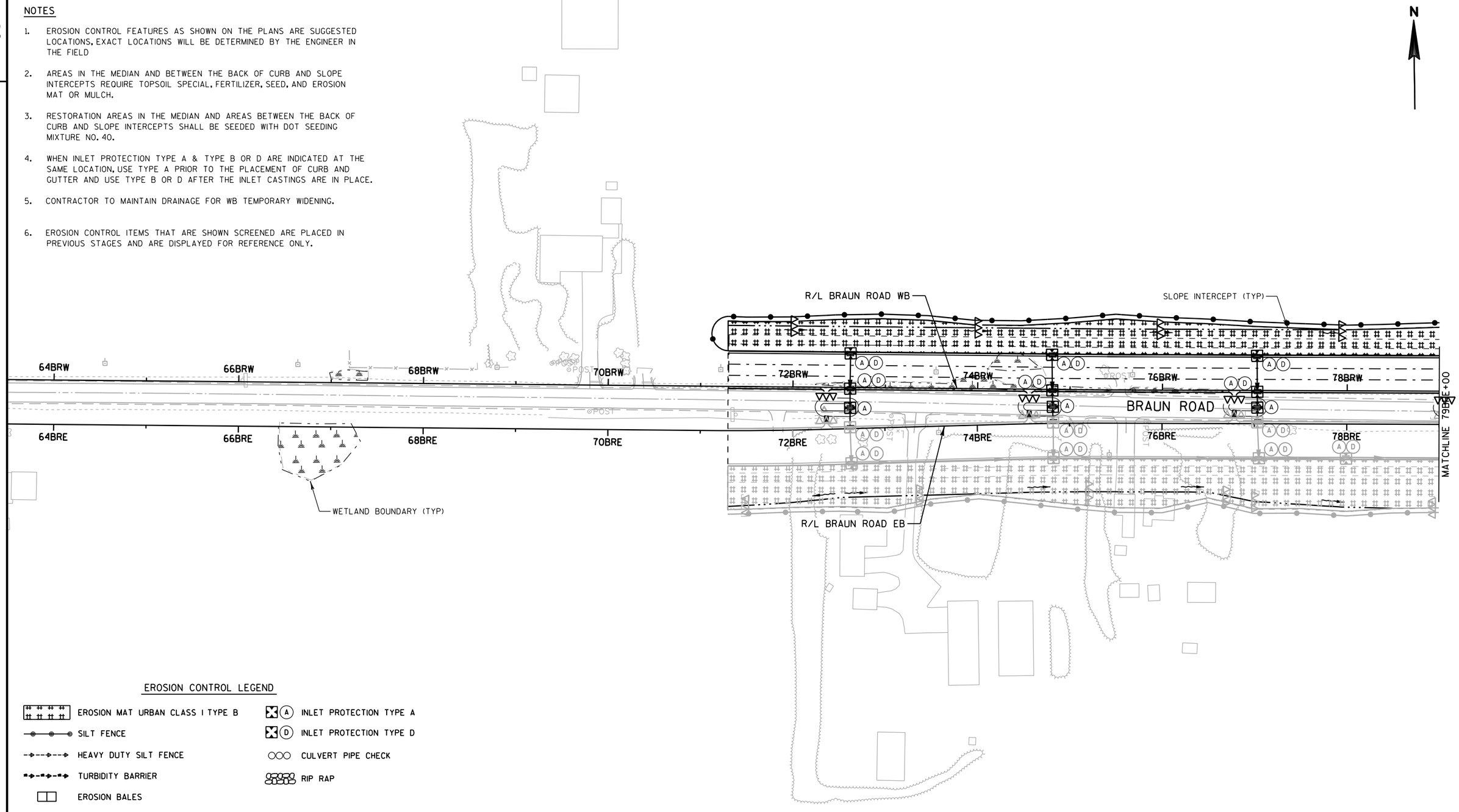
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 2A	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040901TBD.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD
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EROSION CONTROL LEGEND

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- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 2B	SHEET 102	E

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD

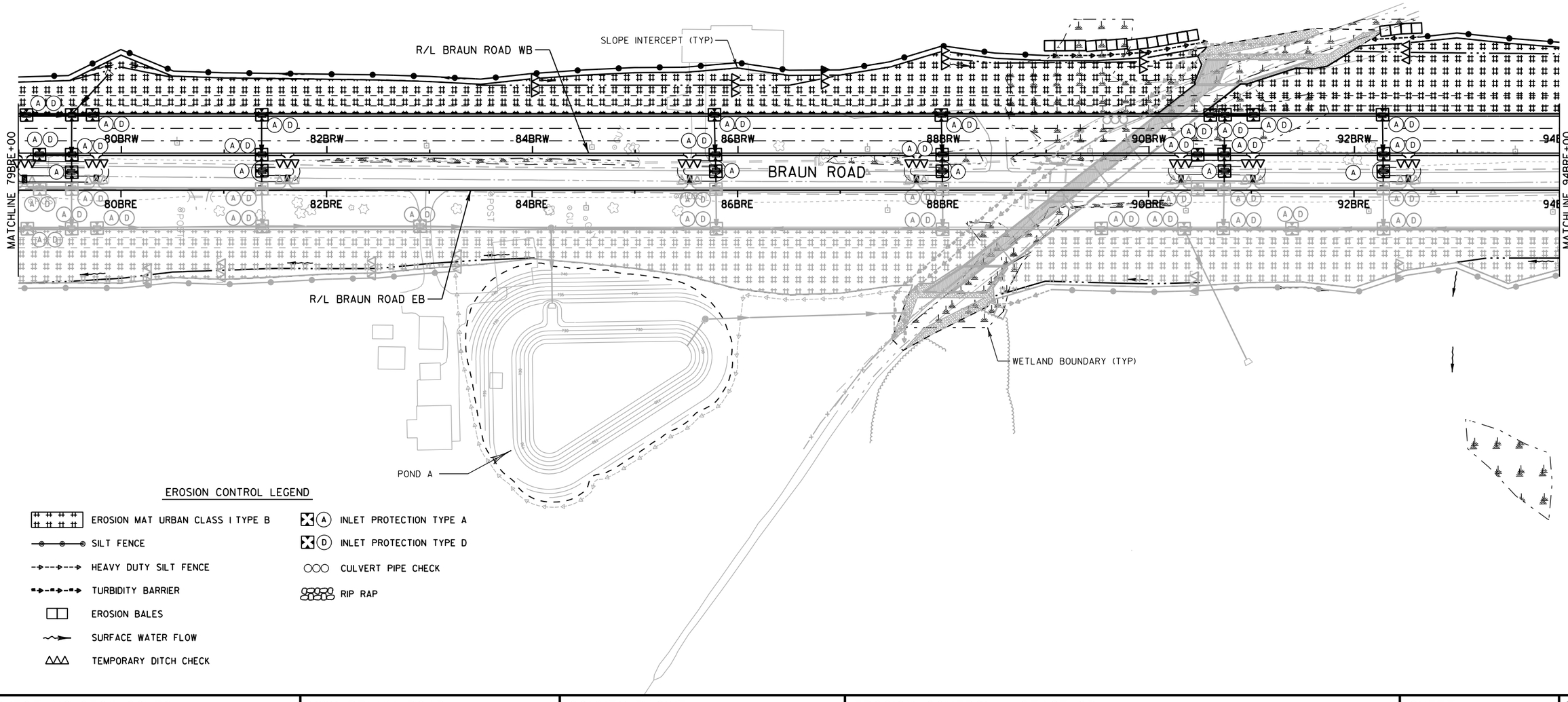
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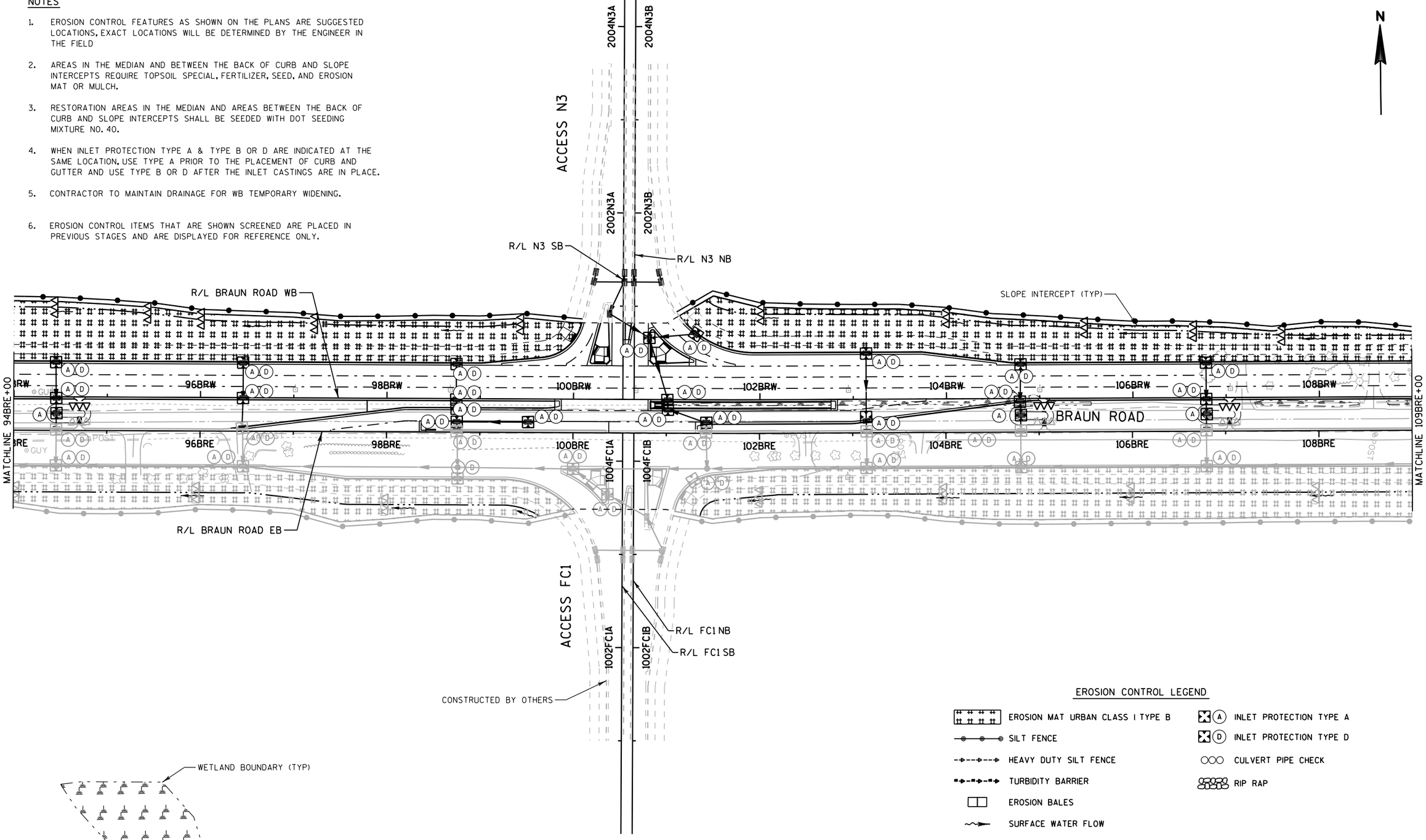


PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 2B	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040PLOT DATE : 14 JUN 2022 PLOT TIME : 03:42:32 PM dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

NOTES

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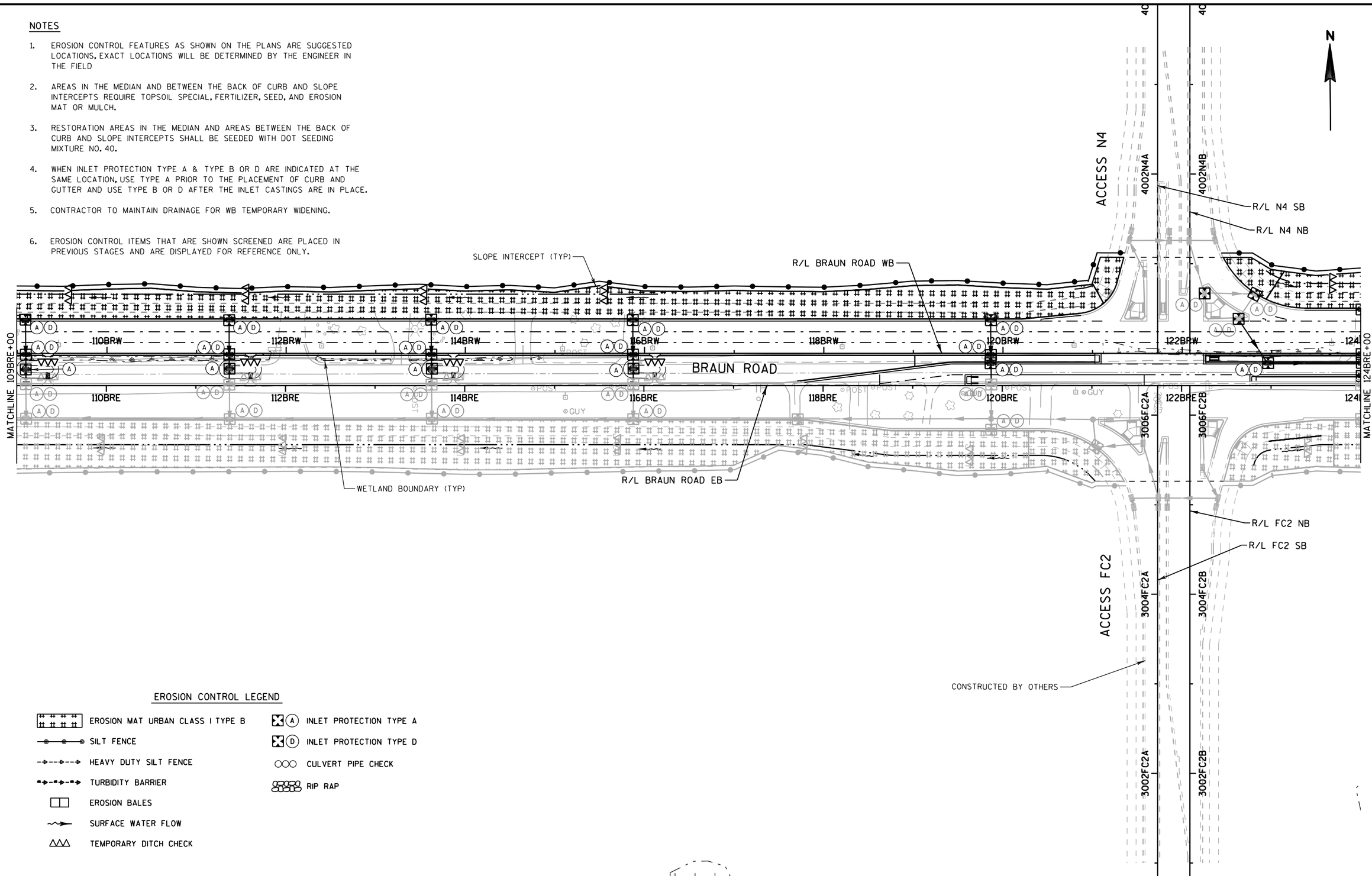
EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 2B	SHEET 104	E

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD
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EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 2B	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704PLOT DATE = 4/26/2022 12:46:52 PM
PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1
WISDOT/CADDS SHEET 42

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD

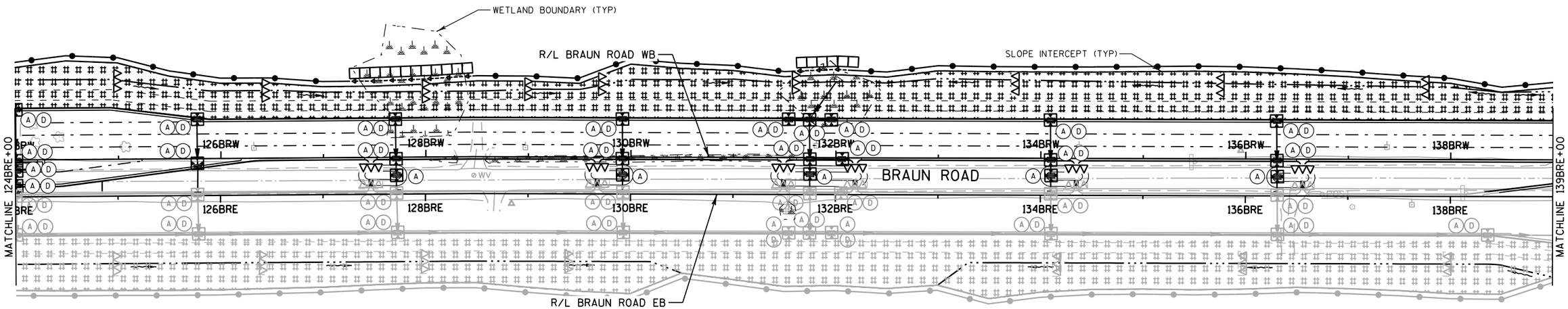
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N

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 2B	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

NOTES

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N

ACCESS N5

6004N5A

6004N5B

6002N5A

6002N5B

R/L N5 NB

R/L N5 SB

SLOPE INTERCEPT (TYP)

R/L BRAUN ROAD WB

140BRW

142BRW

144BRW

146BRW

148BRW

150BRW

152BRW

BRAUN ROAD

140BRE

142BRE

144BRE

146BRE

148BRE

150BRE

152BRE

MATCHLINE 139BRE+00

MATCHLINE 154BRE+00

5004FC3A

5004FC3B

R/L BRAUN ROAD EB

R/L FC3 NB

R/L FC3 SB

ACCESS FC3

5002FC3A

5002FC3B

CONSTRUCTED BY OTHERS

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

WETLAND BOUNDARY (TYP)

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 2B	SHEET	E

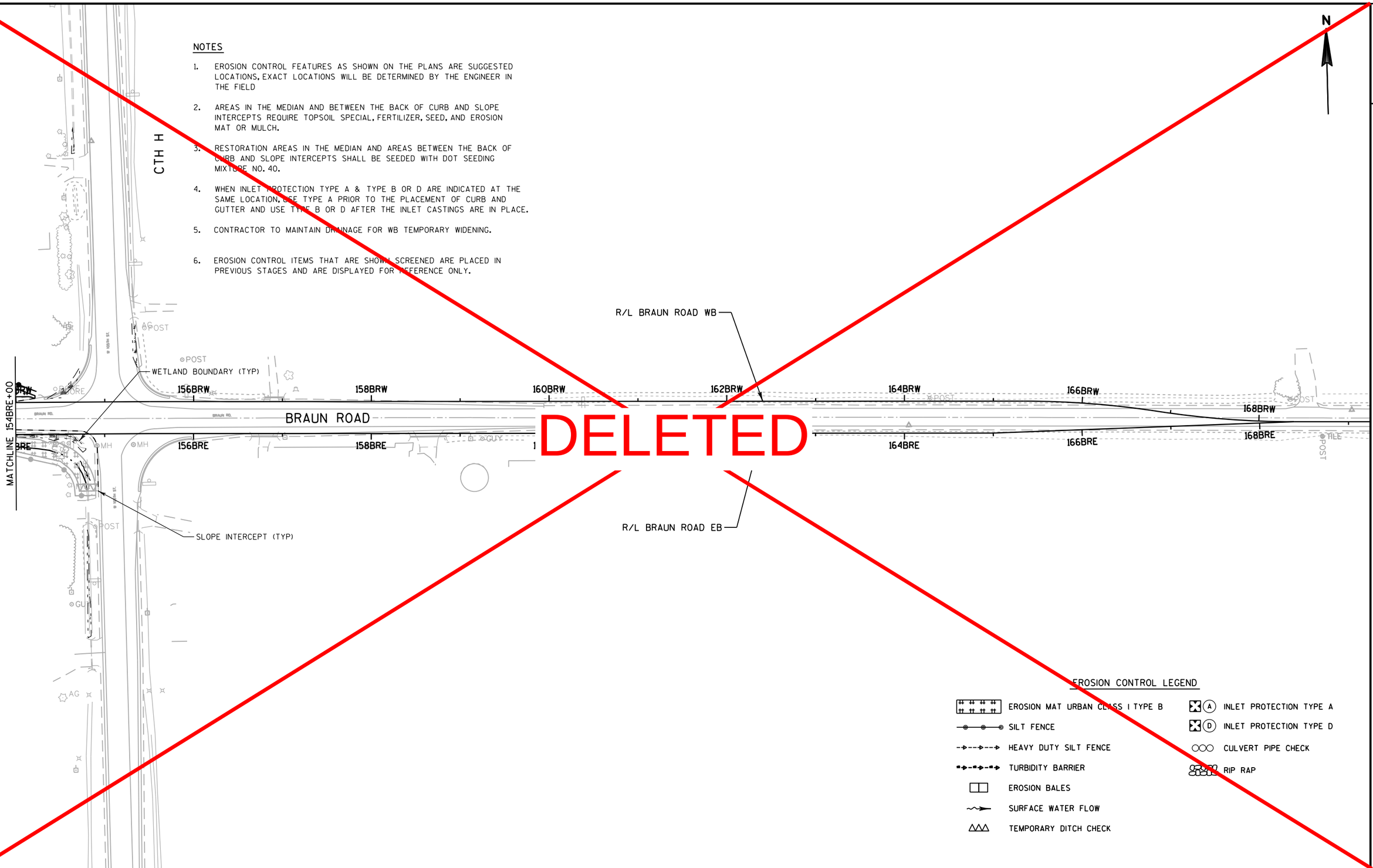
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBraun\t14_26x22812_ec_sht.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD
2. AREAS IN THE MEDIAN AND BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT OR MULCH.
3. RESTORATION AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS SHALL BE SEEDED WITH DOT SEEDING MIXTURE NO. 40.
4. WHEN INLET PROTECTION TYPE A & TYPE B OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B OR D AFTER THE INLET CASTINGS ARE IN PLACE.
5. CONTRACTOR TO MAINTAIN DRAINAGE FOR WB TEMPORARY WIDENING.
6. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.



EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 2B	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040901TBD.dgn PLOT DATE : 14 Jun 2022 13:42:52 PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

2

NOTES

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2. AREAS IN THE MEDIAN AND BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT OR MULCH.
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4. WHEN INLET PROTECTION TYPE A & TYPE B OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B OR D AFTER THE INLET CASTINGS ARE IN PLACE.
5. CONTRACTOR TO MAINTAIN DRAINAGE FOR WB TEMPORARY WIDENING.
6. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

N

ACCESS N5

6004N5A

6004N5B

6002N5A

6002N5B

R/L N5 NB

R/L N5 SB

SLOPE INTERCEPT (TYP)

R/L BRAUN ROAD WB

BRAUN ROAD

140BRW 142BRW 144BRW 146BRW 148BRW 150BRW 152BRW 154BRW

140BRE 142BRE 144BRE 146BRE 148BRE 150BRE 152BRE 154BRE

MATCHLINE 139BRE+00

MATCHLINE 154BRE+00

5004FC3A

5004FC3B

R/L BRAUN ROAD EB

R/L FC3 NB

R/L FC3 SB

ACCESS FC3

5002FC3A

5002FC3B

CONSTRUCTED BY OTHERS

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

WETLAND BOUNDARY (TYP)

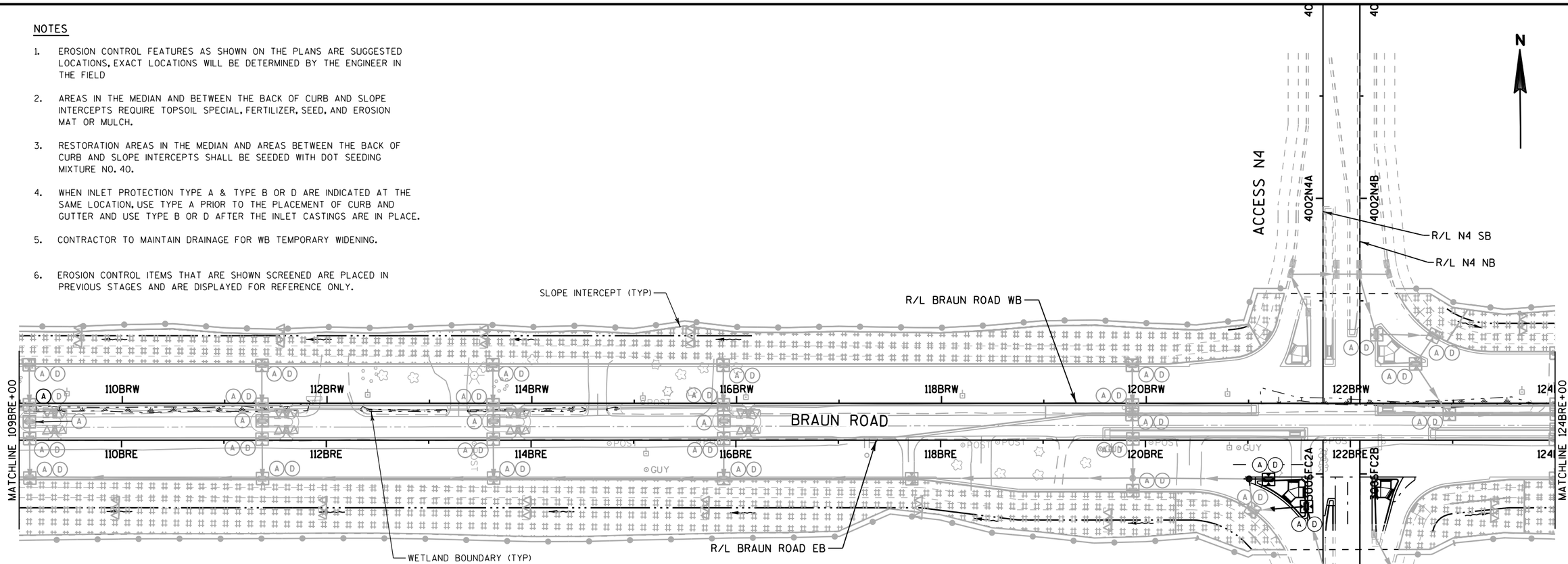
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 3A	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704PLOT DATE : 14 JUN 2022 PLOT TIME : 12:53:22 PM

PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD
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3. RESTORATION AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS SHALL BE SEEDED WITH DOT SEEDING MIXTURE NO. 40.
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5. CONTRACTOR TO MAINTAIN DRAINAGE FOR WB TEMPORARY WIDENING.
6. EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.



EROSION CONTROL LEGEND

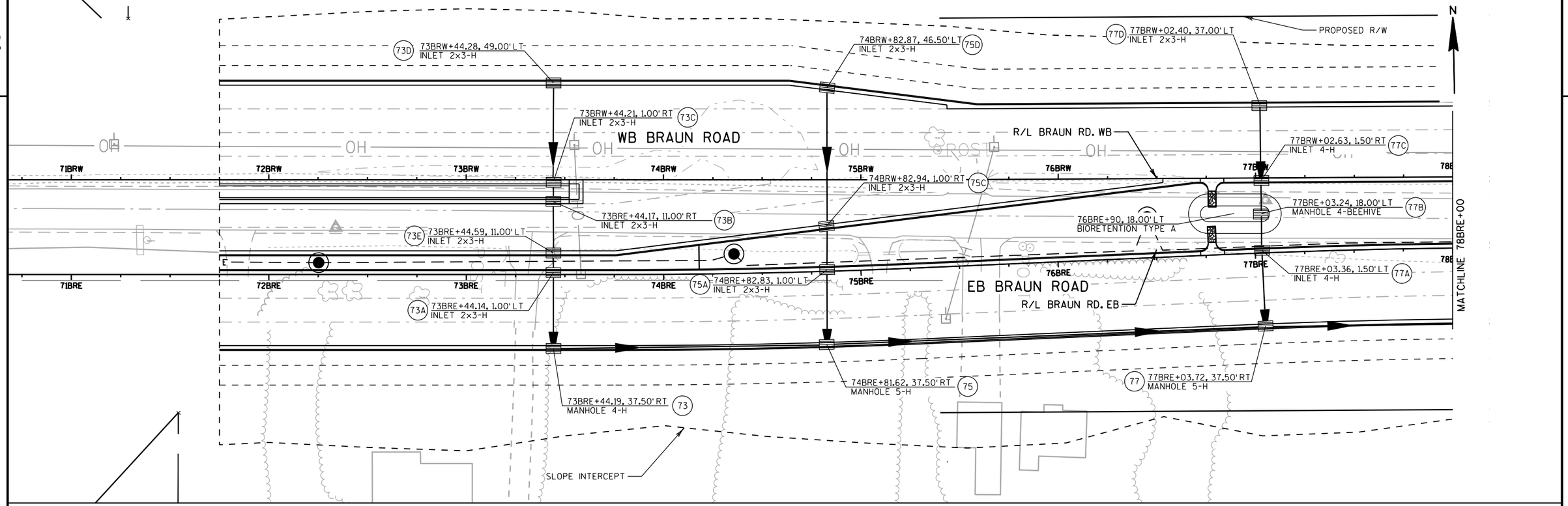
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HEAVY DUTY SILT FENCE
- TURBIDITY BARRIER
- EROSION BALES
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE CHECK
- RIP RAP

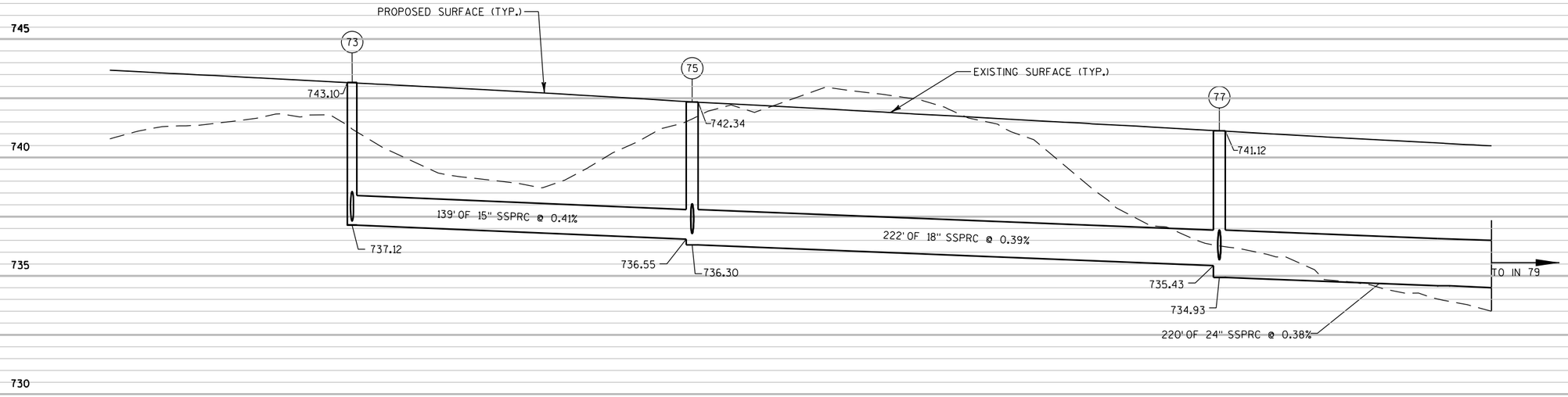
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL - STAGE 3B	SHEET 110 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040... PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

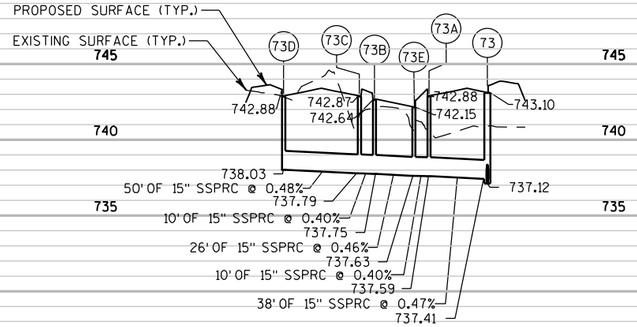


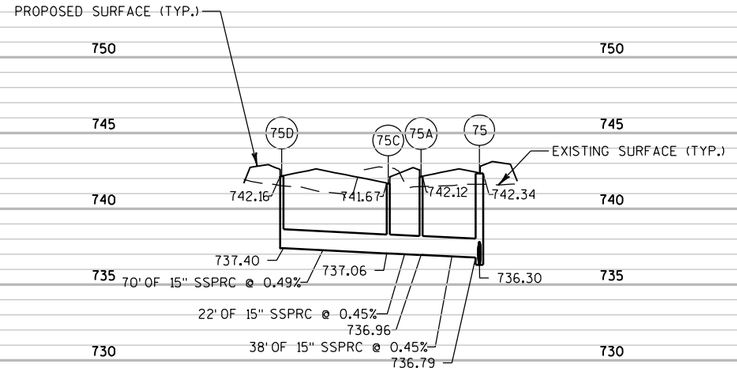


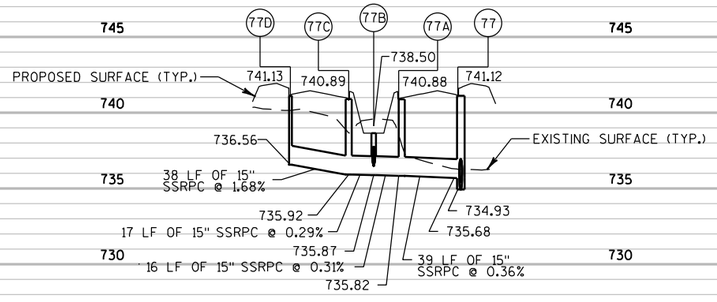
ADDITIONAL PROFILES ON NEXT SHEET

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD	SHEET 111	E

2







PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD PROFILES	SHEET 112	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040PLOT DATE : 18 Jul 2025 12:54
PLOTTED BY : apatek
PLOT NAME :
PLOT SCALE : 100:1

2

N

80G 79BRW+51.54, 37.00' LT MANHOLE 6-H

79BRW+86.04, 75.20' LT EW1

81D 81BRW+36.43, 37.00' LT INLET 2x3-H

801 79BRW+24.43, 37.00' LT INLET 2x3-H-S

PROPOSED R/W

80F 79BRW+25.00, 1.50' RT INLET 2x3-H-S

79BRW+51.41, 1.50' RT 80E INLET 6-H

81C 81BRW+36.35, 1.50' RT INLET 4-H

WB BRAUN ROAD

R/L BRAUN RD. WB

79BRW 80BRW 81BRW 82BRW 83BRW 84BRW 85BRW

79BRE+41, 18.00' LT BIORETENTION TYPE C

79BRE+51.95, 18.00' LT MANHOLE 5-BEEHIVE 80D

81B 81BRE+36.89, 18.00' LT MANHOLE 4-BEEHIVE

81BRE+50, 18.00' LT BIORETENTION TYPE A

MATCHLINE 78BRE+00

MATCHLINE 85BRE+00

79BRE 80BRE 81BRE 82BRE 83BRE 84BRE 85BRE

80C 79BRE+25.34, 1.50' LT INLET 2x3-H-S

79BRE+51.80, 1.50' LT INLET 6-H 80B

81A 81BRE+36.94, 1.50' LT INLET 4-H

EB BRAUN ROAD

R/L BRAUN RD. EB

79 79BRE+24.87, 37.50' RT MANHOLE 5-H-S

80 79BRE+51.95, 37.50' RT MANHOLE 7-H

81BRE+37.76, 37.50' RT MANHOLE 6-H 81

84 84+18.63, 37.50' RT INLET 7-H

SLOPE INTERCEPT

EW2 84BRE+20.00, 140.88' RT SEE DETAIL POND A

PROPOSED SURFACE (TYP.)

EXISTING SURFACE (TYP.)

745 740 735 730

79 80 81 84

740.20 740.20 741.84 743.40

734.09 734.01 733.00 732.30 731.22

220 LF OF 24" SSRPC @ 0.38%

27 LF OF 24" SSRPC @ 0.30%

186 LF OF 36" SSRPC @ 0.38%

281 LF OF 36" SSRPC @ 0.38%

161 LF OF 36" SSRPC @ 0.91%

MATCHLINE 78BRE+00

MATCHLINE 85BRE+00

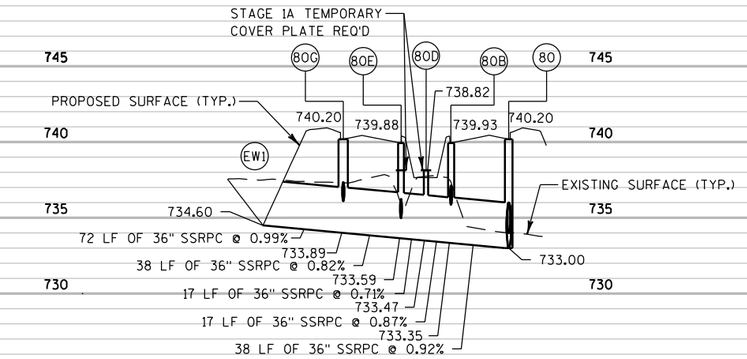
TO IN 86

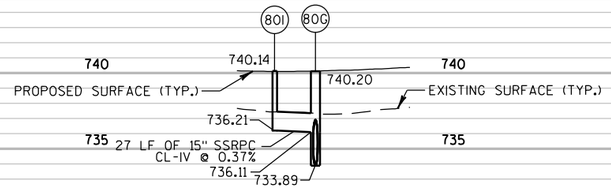
725

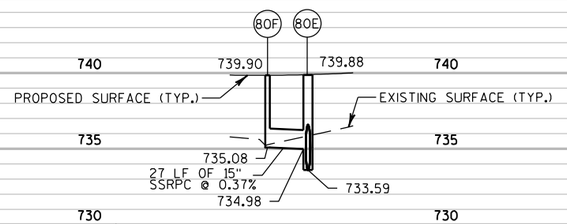
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD	SHEET 113	E

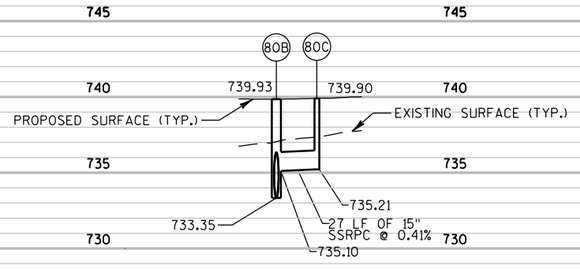
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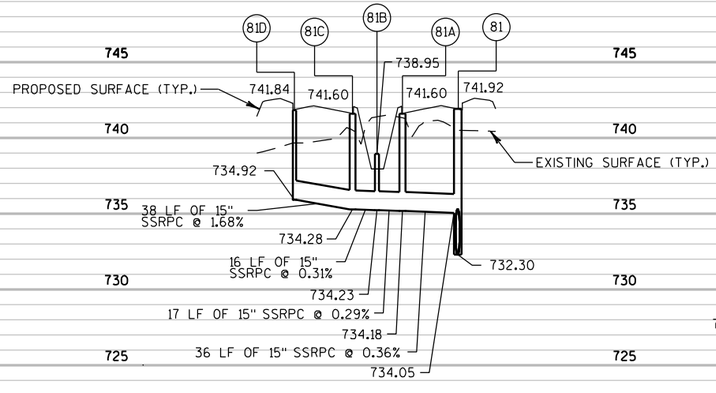
WISDOT/CADDS SHEET 42

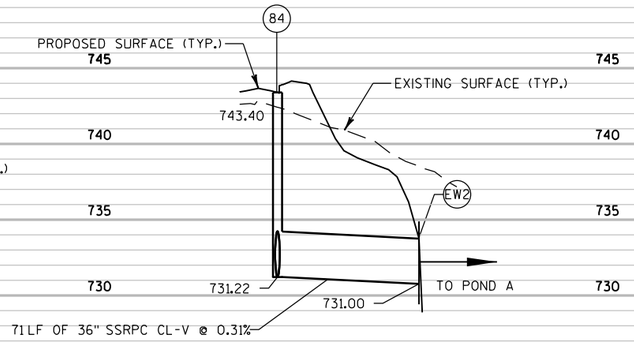

STAGE 1A TEMPORARY
COVER PLATE REQ'D
80C
80E
80D
80B
80
PROPOSED SURFACE (TYP.)
740.20
739.88
738.82
739.93
740.20
EW1
EXISTING SURFACE (TYP.)
734.60
72 LF OF 36" SSRPC @ 0.99%
733.89
38 LF OF 36" SSRPC @ 0.82%
733.59
17 LF OF 36" SSRPC @ 0.71%
733.47
17 LF OF 36" SSRPC @ 0.87%
733.35
38 LF OF 36" SSRPC @ 0.92%
733.00
745
740
735
730


80I
80G
740.14
740.20
PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
736.21
27 LF OF 15" SSRPC
CL-IV @ 0.37%
736.11
733.89
745
740
735
730


80F
80E
739.90
739.88
PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
735.08
27 LF OF 15"
SSRPC @ 0.37%
734.98
733.59
745
740
735
730


80B
80C
739.93
739.90
PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
735.21
733.35
27 LF OF 15"
SSRPC @ 0.41%
735.10
745
740
735
730


81D
81C
81B
81A
81
738.95
PROPOSED SURFACE (TYP.)
741.84
741.60
741.60
741.92
734.92
EXISTING SURFACE (TYP.)
38 LF OF 15"
SSRPC @ 1.68%
734.28
16 LF OF 15"
SSRPC @ 0.31%
734.23
17 LF OF 15" SSRPC @ 0.29%
734.18
36 LF OF 15" SSRPC @ 0.36%
734.05
732.30
745
740
735
730
725


84
PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
743.40
EW2
731.22
731.00
TO POND A
71LF OF 36" SSRPC CL-V @ 0.31%
745
740
735
730
725

2

N

85BRW+76.91, 37.00' LT
INLET 2x3-H (86D)

87BRW+97.91, 37.00' LT
INLET 2x3-H (88D)

90BRW+47.52, 37.00' LT
INLET 2x3-H (91I)

90BRW+73.70, 37.00' LT
INLET 2x3-H-S (91G)

91BRW+01.21, 37.00' LT
INLET 2x3-H (91H)

WB BRAUN ROAD

85BRW+77.99, 1.50' RT
INLET 4-H (86C)

87BRW+98.71, 1.50' RT
INLET 4-H (88C)

R/L BRAUN RD. WB

90BRW+47.12, 1.50' RT
INLET 4-H (91F)

90BRW+73.24, 1.50' RT
INLET 4-H-S (91E)

86BRW | 87BRW | 88BRW | 89BRW | 90BRW | 91BRW | 92B

MATCHLINE 85BRE+00

85BRE+78.76, 18.00' LT
MANHOLE 4-BEEHIVE (86B)

87BRE+85, 18.00' LT
BIORETENTION TYPE A

87BRE+99.20, 18.00' LT
MANHOLE 4-BEEHIVE (88B)

90BRE+67, 18.00' LT
BIORETENTION TYPE C

90BRE+73.76, 18.00' LT
MANHOLE 4-BEEHIVE (91D)

85BRE+65, 18.00' LT
BIORETENTION TYPE B

86BRE | 87BRE | 88BRE | 89BRE | 90BRE | 91BRE | 92B

85BRE+79.07, 1.50' LT
INLET 4-H (86A)

EB BRAUN ROAD

87BRE+99.46, 1.50' LT
INLET 4-H (88A)

90BRE+47.46, 1.50' LT
INLET 4-H (91C)

90BRE+73.59, 1.50' LT
INLET 4-H-S (91B)

90BRE+72.97, 37.50' RT
MANHOLE 7-H-S (91)

R/L BRAUN RD. EB

MATCHLINE 92BRE+00

85BRE+79.46, 37.50' RT
MANHOLE 6-H (86)

87BRE+47.17, 83.21' RT
MANHOLE 4-JS (88C)

87BRE+99.74, 37.50' RT
MANHOLE 5-H (88)

90BRE+34.63, 37.00' RT
INLET 2x3-H (90)

91BRE+40.01, 37.50' RT
MANHOLE 5-H (91A)

X=598203.09 Y=170216.03
CONNECT TO 36" PIPE
CONSTRUCTED BY OTHERS

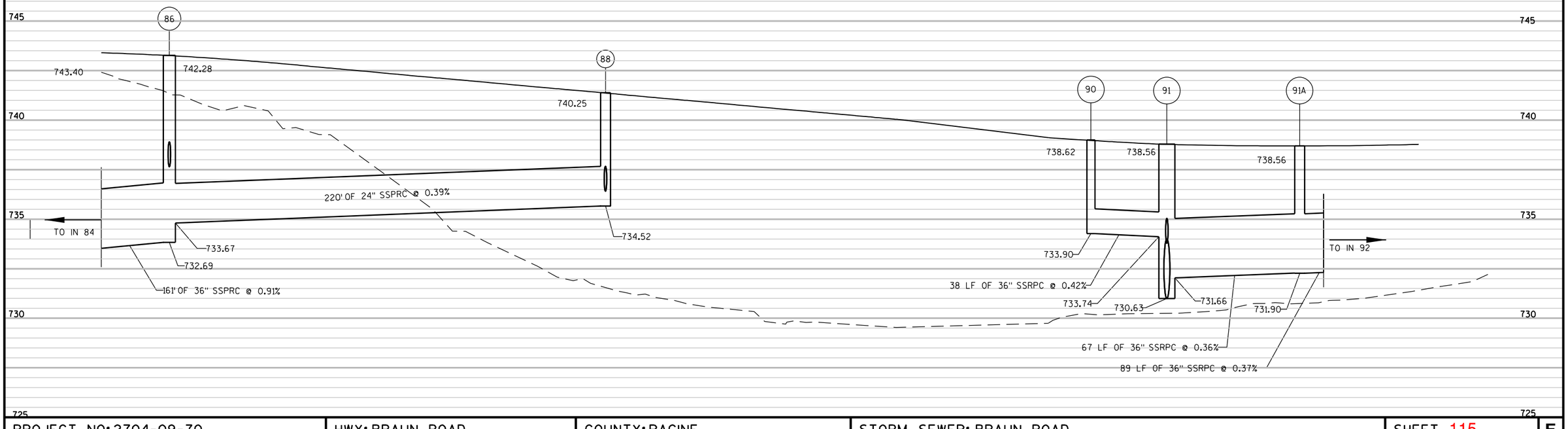
12PA+50.58, 0.32' LT
POND A OUTFALL STRUCTURE
24" SLIP-IN CHECK VALVE
SEE POND DETAIL (86E)

PROPOSED R/W

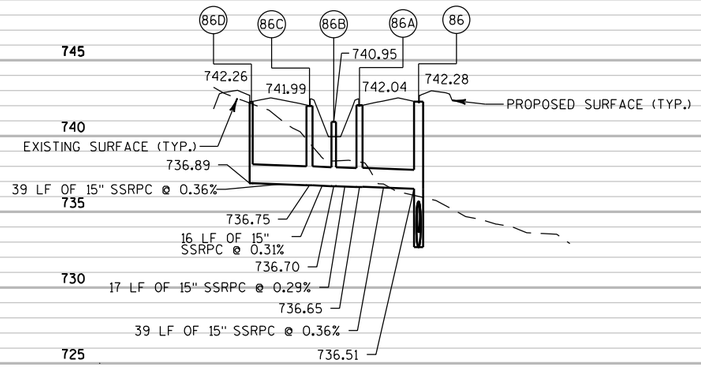
SLOPE INTERCEPT

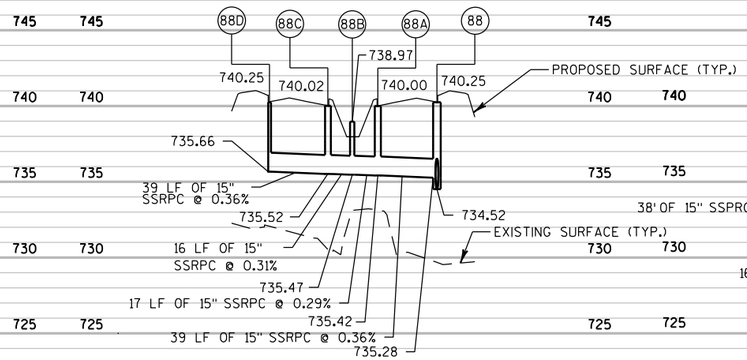
85BRE+50.92, 151.76' RT (EW6)

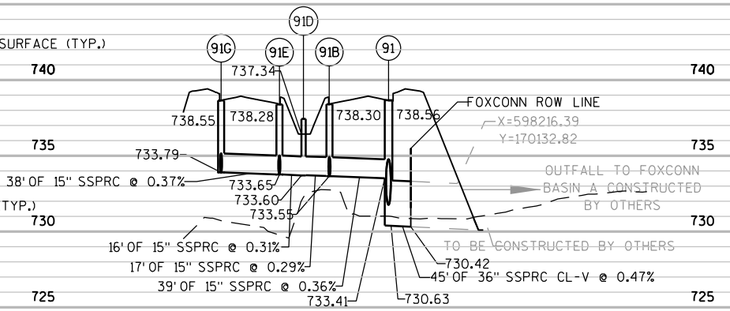
87BRE+53.90, 137.61' RT (EW7)

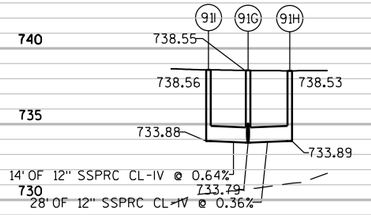


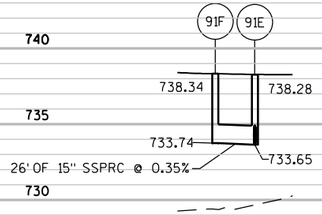
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD	SHEET 115	E

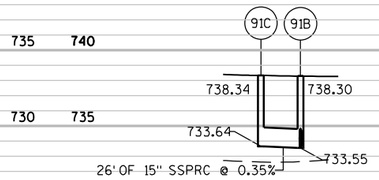


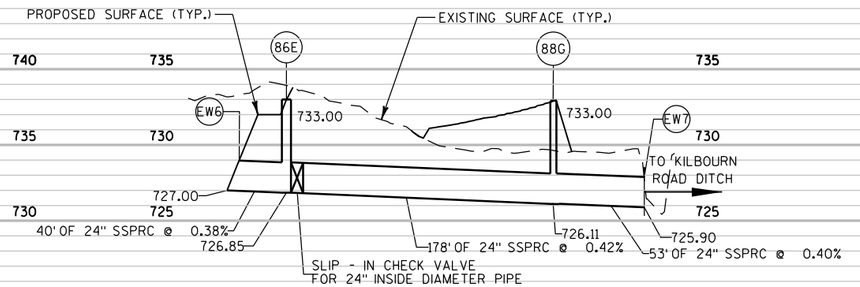












PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD PROFILES	SHEET 116	E

2

N

92BRW+27.37, 37.00' LT
INLET 2x3-H
92D

92BRW+27.68, 1.50' RT
INLET 4-H
92C

92BRE+28.34, 18.00' LT
MANHOLE 4-BEEHIVE
92B

92BRE+41, 18.00' LT
BIORETENTION TYPE A

92BRE+28.46, 1.50' LT
INLET 4-H
92A

92BRE+28.70, 37.50' RT
MANHOLE 6-H
92

MATCHLINE 92BRE+00

WB BRAUN ROAD

EB BRAUN ROAD

93BRW

93BRE

94D 94BRW+44.81, 37.00' LT
INLET 2x3-H

94C 94BRW+45.22, 1.50' RT
INLET 4-H

94B 94BRE+45.67, 18.00' LT
MANHOLE 4-BEEHIVE

94BRE+59, 18.00' LT
BIORETENTION TYPE B

94A 94BRE+45.73, 1.50' LT
INLET 4-H

94 94BRE+45.53, 37.50' RT
MANHOLE 6-H

94BRW

94BRE

95BRW

95BRE

R/L BRAUN RD. WB

PROPOSED R/W

SLOPE INTERCEPT

96C 96BRW+46.02, 37.00' LT
INLET 2x3-H

96BRW+46.03, 1.50' RT
INLET 2x3-H
96B

96A 96BRE+45.55, 1.00' LT
INLET 2x3-H

96 96BRE+46.14, 37.50' RT
MANHOLE 6-H

96BRW

96BRE

97BRW

97BRE

R/L BRAUN RD. EB

99E 98BRW+74.08, 37.00' LT
INLET 2x3-H

99D 98BRW+74.56, 1.00' RT
INLET 2x3-H

99A 98BRE+75.65, 1.00' LT
INLET 2x3-HM

99F 98BRE+76.43, 49.50' RT
MANHOLE 6-H

98BRW

98BRE

99BRW

99BRE

MATCHLINE 99BRE+50

EXISTING SURFACE (TYP.)

PROPOSED SURFACE (TYP.)

745
740
735
730
725

92
738.89
732.23
TO IN 91A

94
740.47
733.07

96
742.04
733.84

99F
743.62
735.13
TO IN 100

217' OF 36" SSPRC @ 0.39%

198' OF 36" SSPRC @ 0.39%

230' OF 36" SSPRC @ 0.56%

125' OF 36" SSPRC @ 0.60%

MATCHLINE 92BRE+00

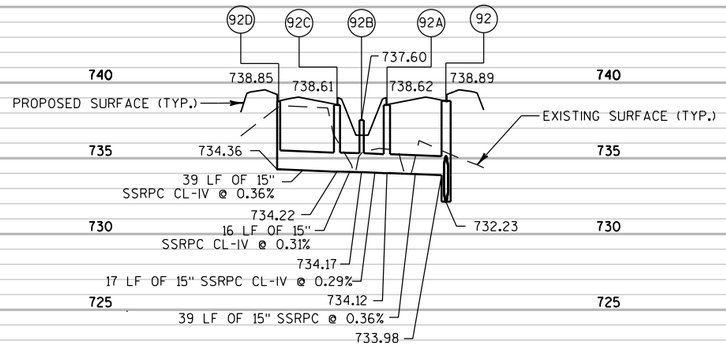
MATCHLINE 99BRE+50

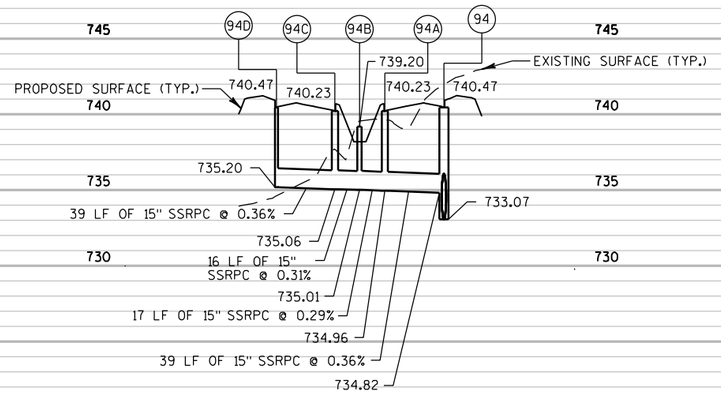
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD	SHEET 117	E

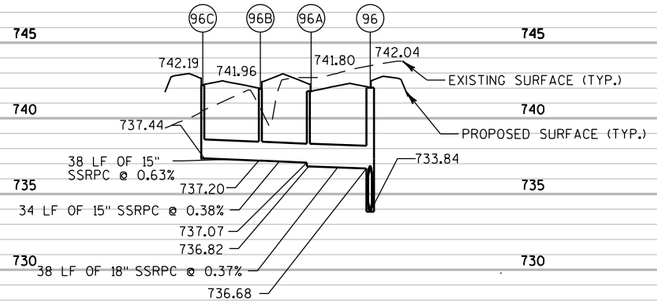
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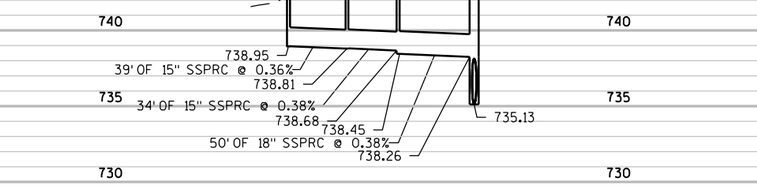
WISDOT/CADDS SHEET 42

2









PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD PROFILES	SHEET 118	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040PLOT DATE : 18 Jan 2023 9:26:58 PLOTTED BY : apatek PLOT NAME : PLOT SCALE : 100:1 BRAUN_PROF.dgn

2

N

103C 103BRW+14.02, 37.00' LT
INLET 2x3-H

104BRW+79.41, 37.00' LT 105D
INLET 2x3-H

101BRW+01.18, 37.00' LT 101G
INLET 2x3-H

R/L BRAUN RD. WB

WB BRAUN ROAD

101BRW+01.32, 1.00' RT 101F
INLET 2x3-HM

104BRW+79.53, 1.50' RT 105C
INLET 4-H

101BRW+01.23, 11.50' RT 101E
INLET 4-HM

103BRW+14.96, 23.10' RT 103B
INLET 2x3-H

100BRW 101BRW 102BRW 103BRW 104BRW 105BRW 106BRW

101Z 100BRE+36.85, 11.23' LT
INLET 4-HM

101BRE+43.10, 11.50' LT 101D
INLET 4-H

105B 104BRE+80.30, 18.00' LT
MANHOLE 4-BEEHIVE

104BRE+91, 18.00' LT
BIORETENTION TYPE B

MATCHLINE 99BRE+50

99BRE+99.61, 1.50' LT 100E
MANHOLE 4-H

100BRR/L FC1 SB

100BRE 101BRE 102BRE 103BRE 104BRE 105BRE 106BRE

R/L BRAUN RD. EB

103BRE+15.00, 1.00' LT 103A
INLET 2x3-H

EB BRAUN ROAD

MATCHLINE 106BRE+75

100BRE+00.11, 39.00' RT 100
MANHOLE 6-H

101BRE+43.14, 1.00' LT 101B
INLET 2x3-H

105A 104BRE+80.30, 1.50' LT
INLET 4-H

004FC1 004FC1

107 106BRE+79.57, 37.50' RT
MANHOLE 5-H

103BRE+15.02, 37.50' RT 103
MANHOLE 6-H

PROPOSED R/W

105 104BRE+80.66, 37.50' RT
MANHOLE 5-H

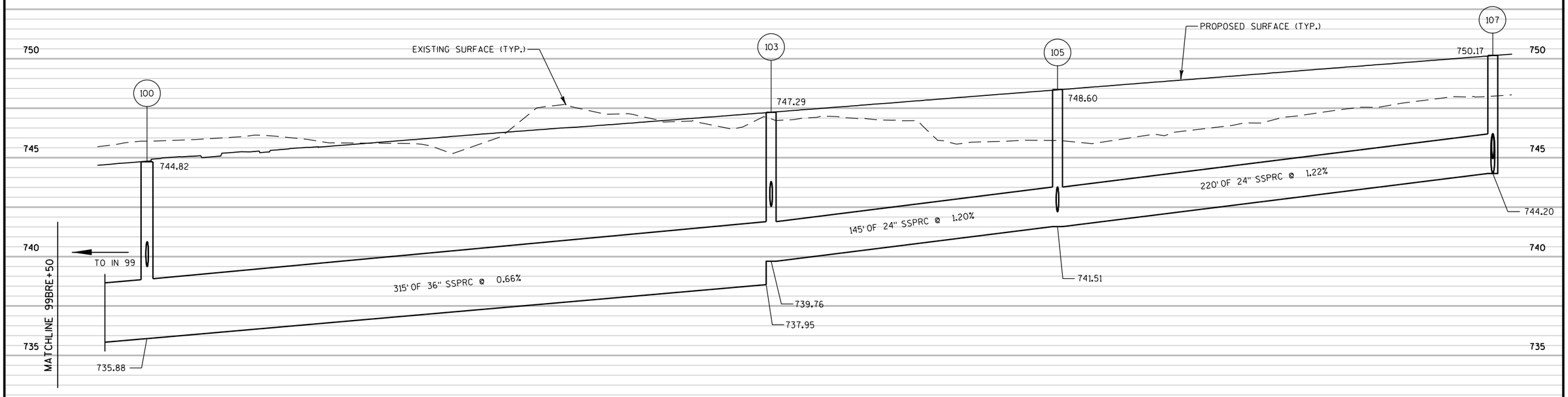
CONSTRUCTED BY OTHERS

SLOPE INTERCEPT

ACCESS FC1

R/L FC1 NB

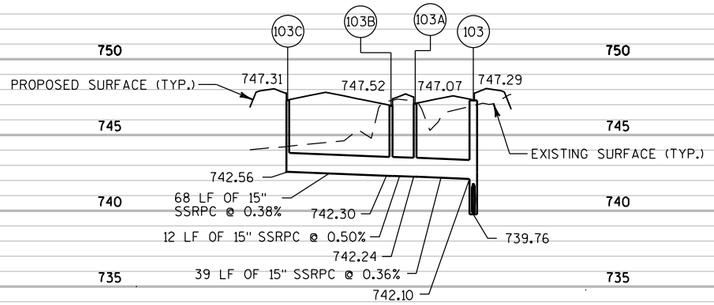
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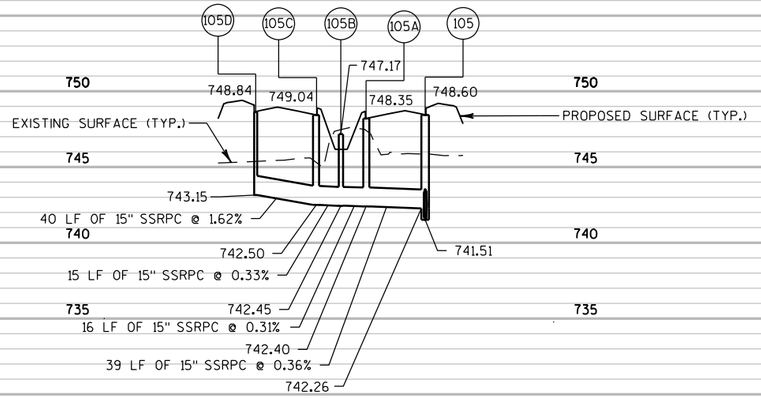


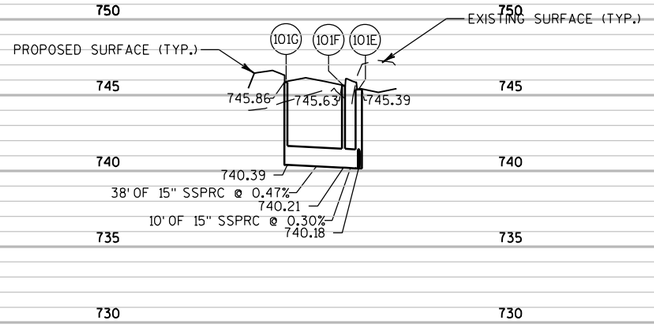
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD	SHEET 119	E

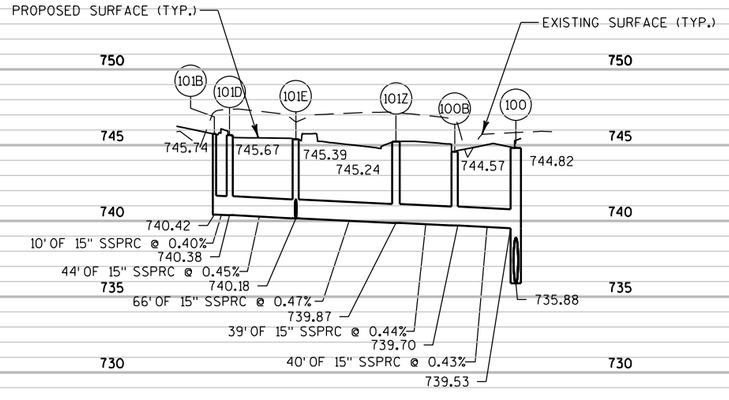
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2









PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD PROFILES	SHEET 120	E

2

N

106BRW+78.41, 37.00' LT
INLET 2x3-H
107D

106BRW+78.60, 1.50' RT
INLET 4-H
107C

106BRE+79.45, 18.00' LT
MANHOLE 4-BEEHIVE
107B

106BRE+93, 18.00' LT
BIORETENTION TYPE A

106BRE+79.45, 1.50' LT
INLET 4-H
107A

106BRE+79.57, 37.50' RT
MANHOLE 5-H
107

MATCHLINE 106BRE+75

107BRW

107BRE

108BRW

108BRE

109BRW+09.09, 37.00' LT
INLET 2x3-H
109D

109BRW+09.39, 1.50' RT
INLET 4-H
109C

109BRE+10.23, 18.00' LT
MANHOLE 4-BEEHIVE
109B

109BRE+23, 18.00' LT
BIORETENTION TYPE B

109BRE+10.28, 1.50' LT
INLET 4-H
109A

109BRE+10.41, 37.50' RT
MANHOLE 5-H
109

109BRW

109BRE

110BRW

110BRE

R/L BRAUN RD. WB

WB BRAUN ROAD

R/L BRAUN RD. EB

111BRW+36.38, 37.00' LT
INLET 2x3-H
111D

111BRW+36.36, 1.50' RT
INLET 4-H
111C

111BRE+37.15, 18.00' LT
MANHOLE 4-BEEHIVE
111B

111BRE+37.26, 1.50' LT
INLET 4-H
111A

111BRE+37.66, 37.50' RT
MANHOLE 5-H
111

111BRW

111BRE

112BRW

112BRE

EB BRAUN ROAD

111BRE+50, 18.00' LT
BIORETENTION TYPE A

114D 113BRW+61.90, 37.00' LT
INLET 2x3-H

114C 113BRW+62.09, 1.50' RT
INLET 4-H

114B 113BRE+63.03, 18.00' LT
MANHOLE 4-BEEHIVE

113BRE+75, 18.00' LT
BIORETENTION TYPE B

114A 113BRE+63.05, 1.50' LT
INLET 4-H

114 113BRE+63.39, 37.50' RT
MANHOLE 5-H

113BRW

113BRE

114BRW

114BRE

MATCHLINE 114BRE+25

PROPOSED R/W

SLOPE INTERCEPT

760

755

750

745

740

107

750.17

PROPOSED SURFACE (TYP.)

231' OF 24" SSPRC @ 0.98%

744.20

TO IN 105

109

752.00

746.46

227' OF 24" SSPRC @ 0.74%

111

753.78

748.13

748.63

EXISTING SURFACE (TYP.)

114

755.54

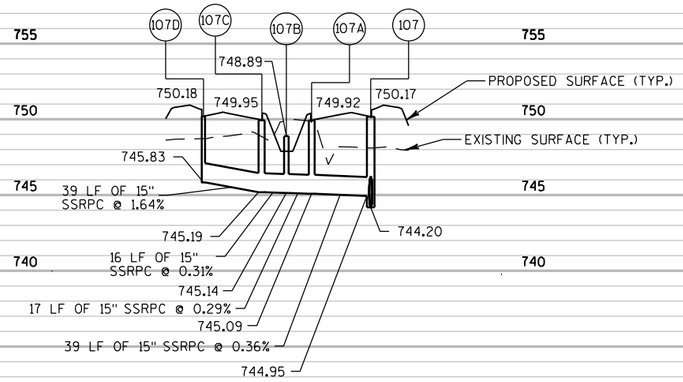
226' OF 18" SSPRC @ 0.49%

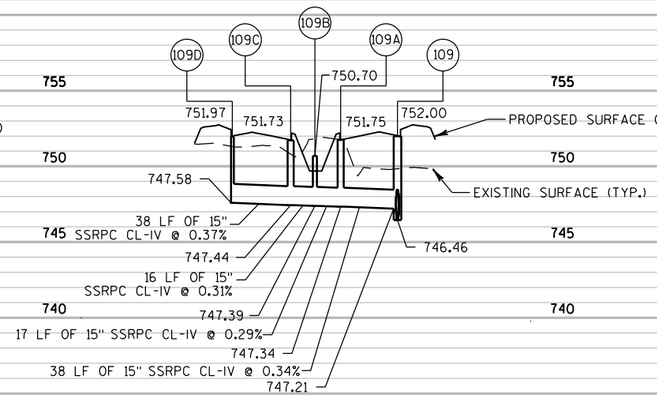
749.74

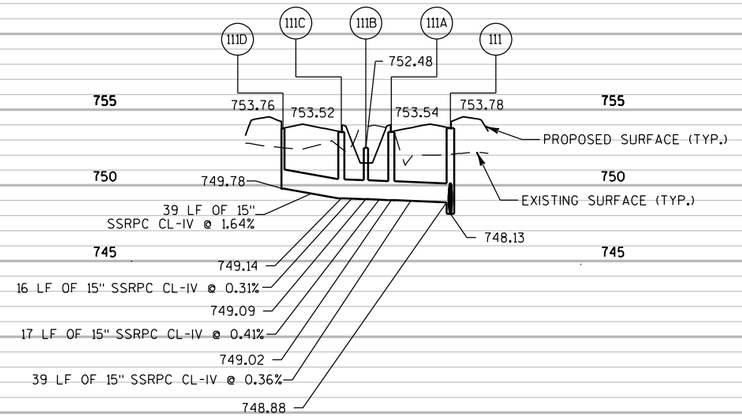
TO IN 116

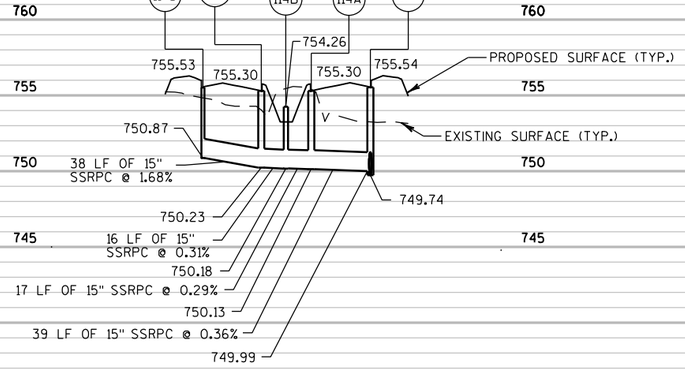
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD	SHEET 121	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD_Drainage\18x36\2022508_24_BRAUN_PLN.dgn PLOT BY : apatek PLOT NAME : PLOT SCALE : 50:1







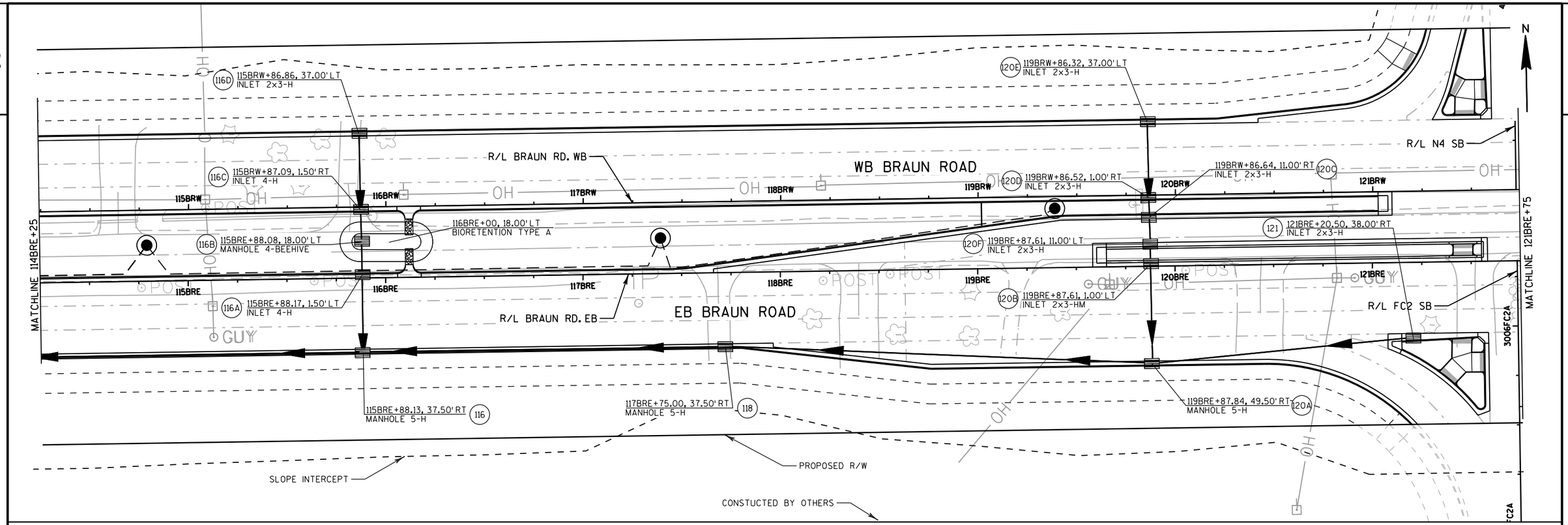


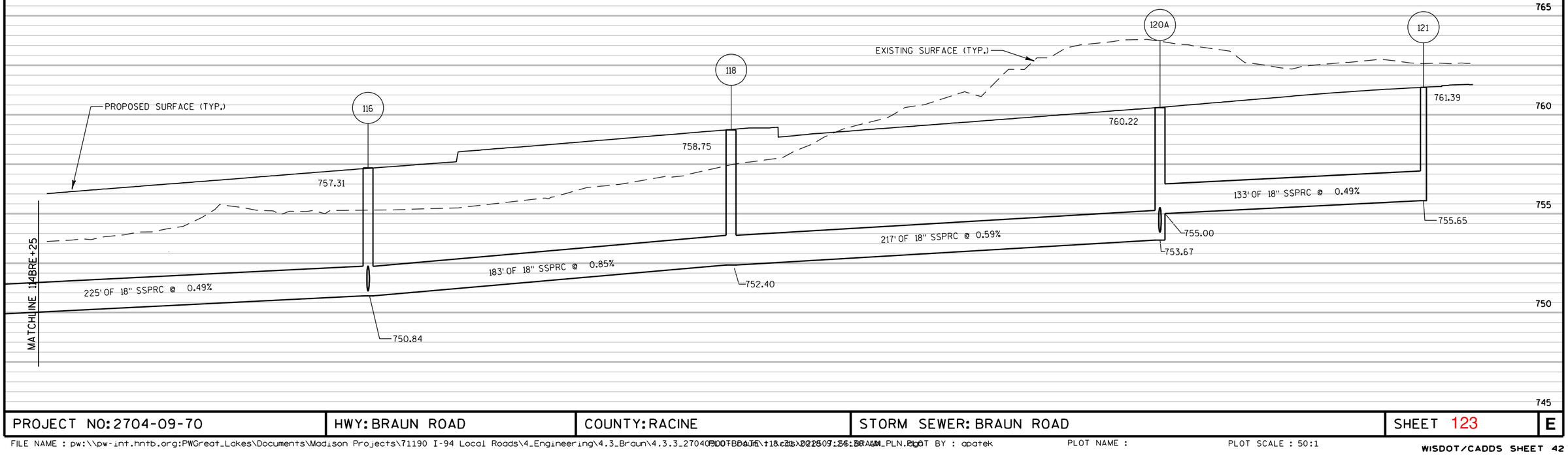
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD PROFILES	SHEET 122	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040PLOT DATE: 18 Jan 2022 8:24:25 BY : apatek PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

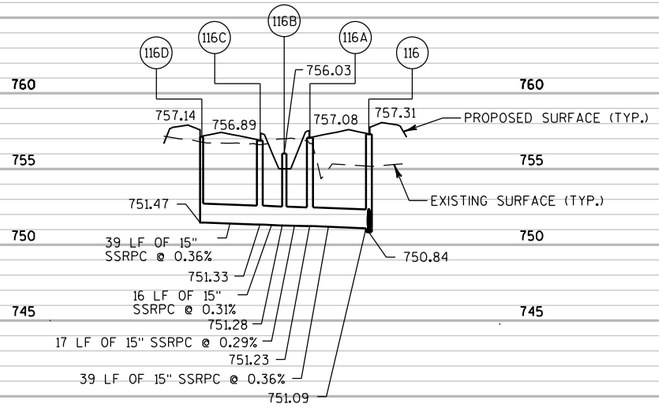


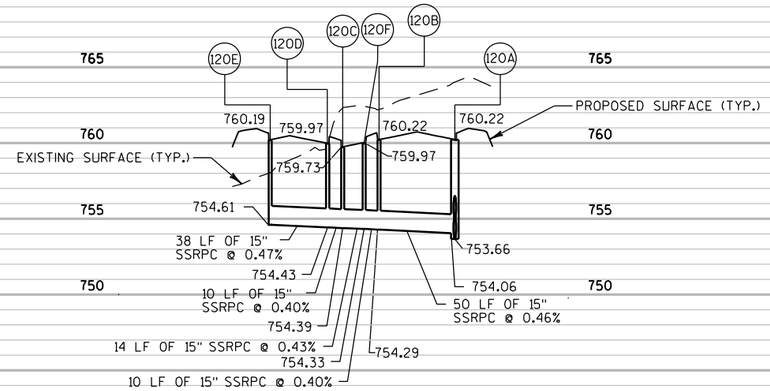


PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD	SHEET 123	E

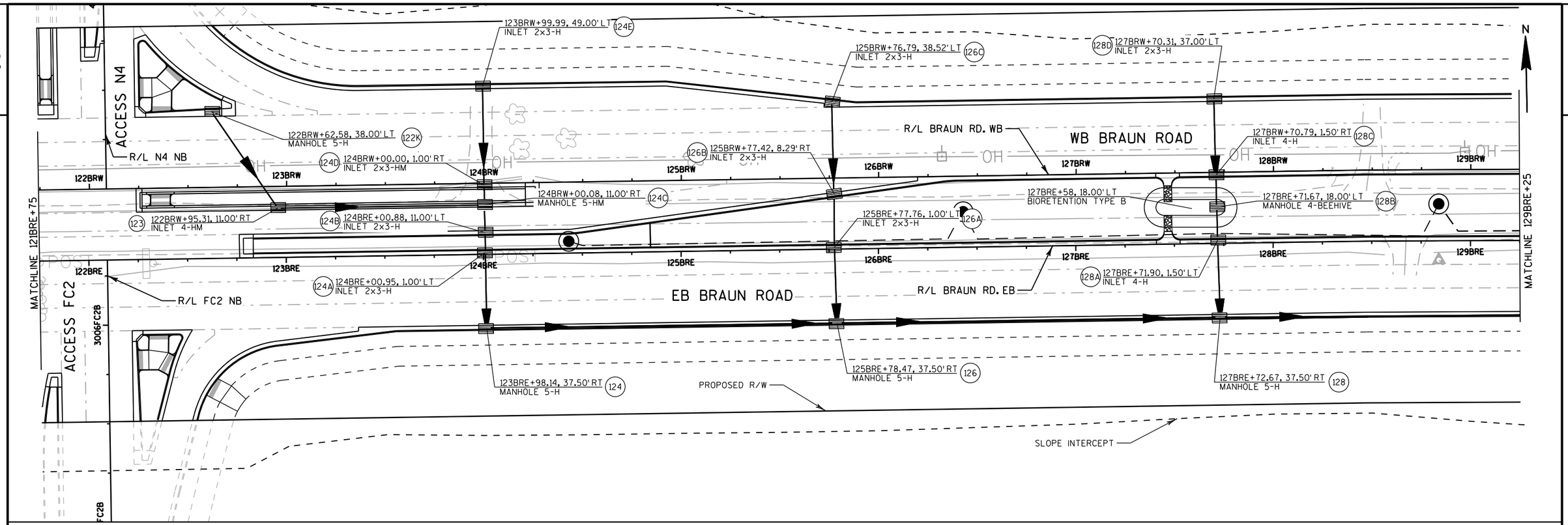
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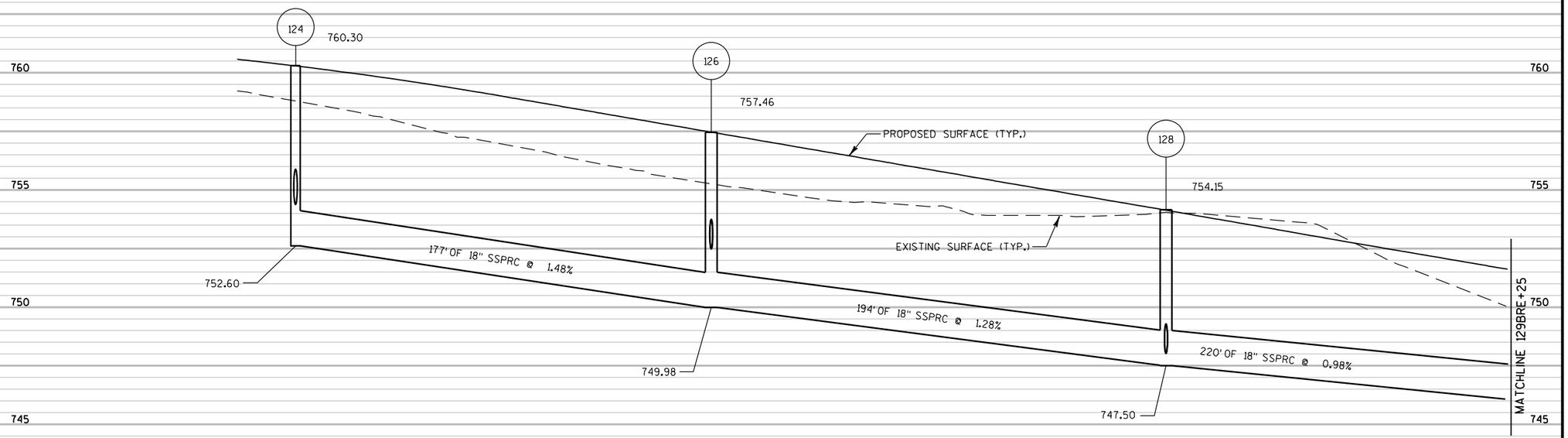
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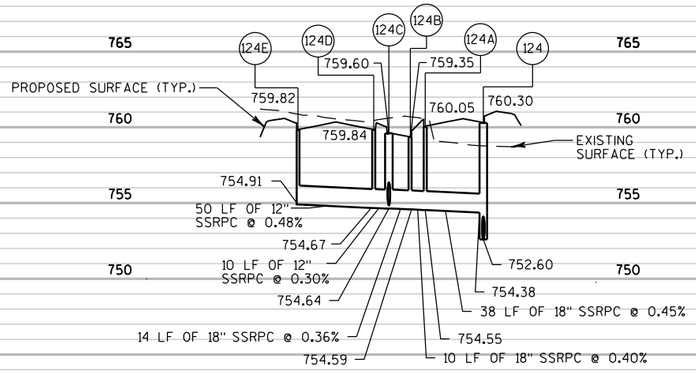


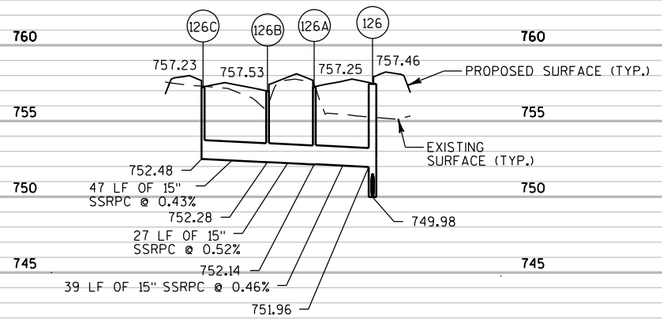
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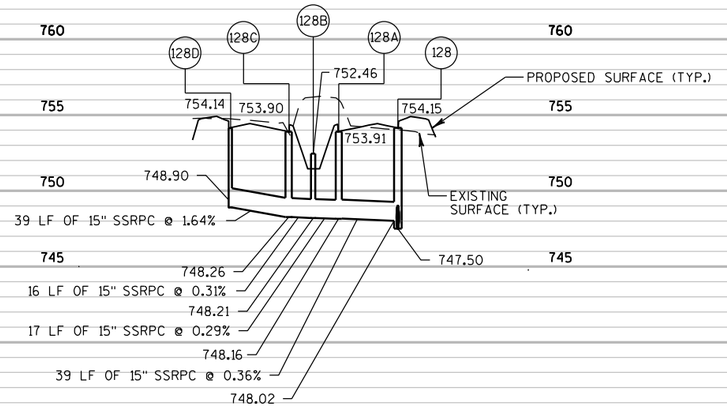


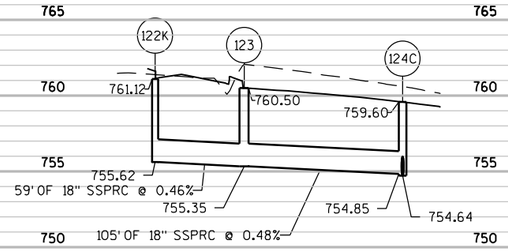


PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD	SHEET 125	E





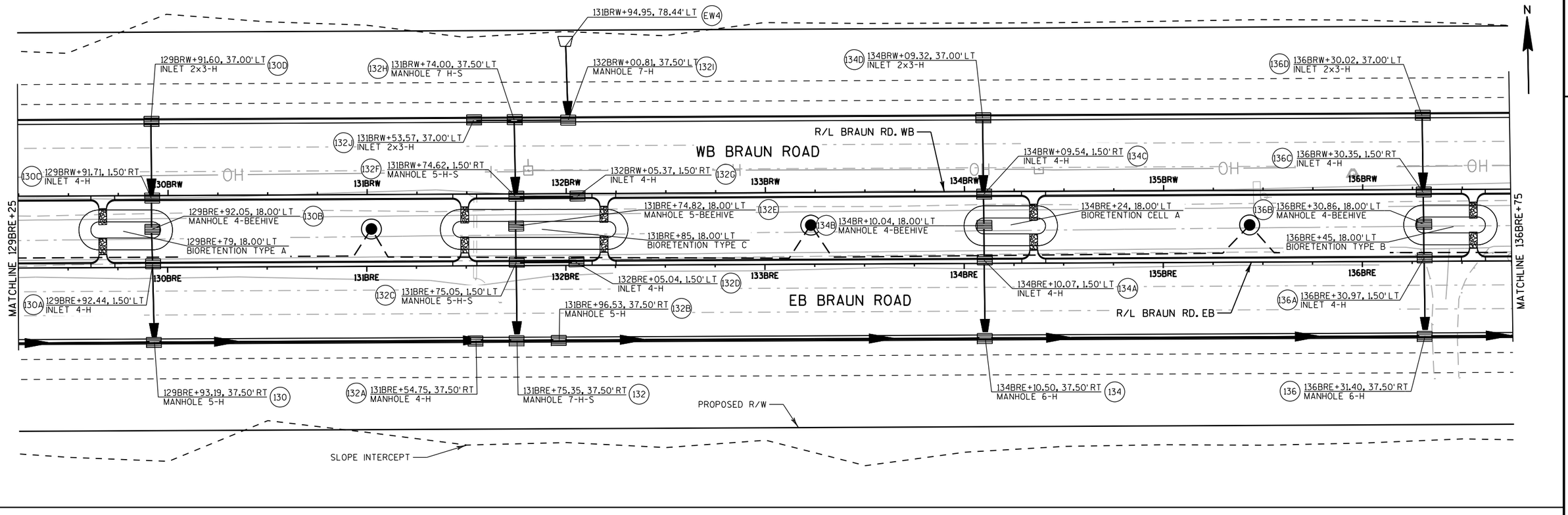


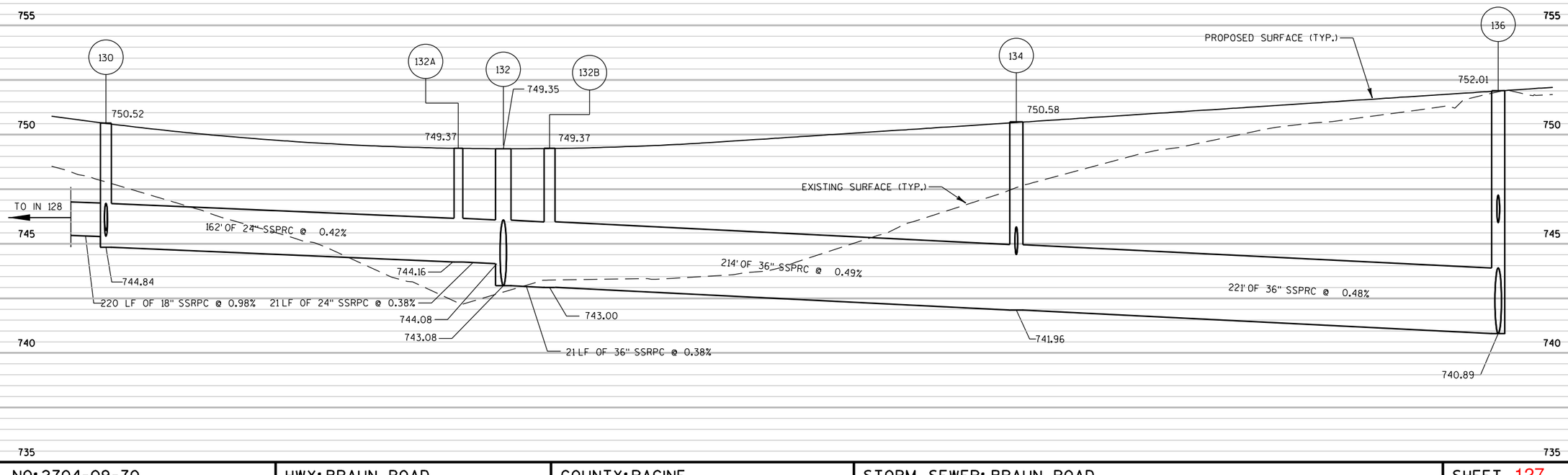


PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD PROFILES	SHEET 126	E

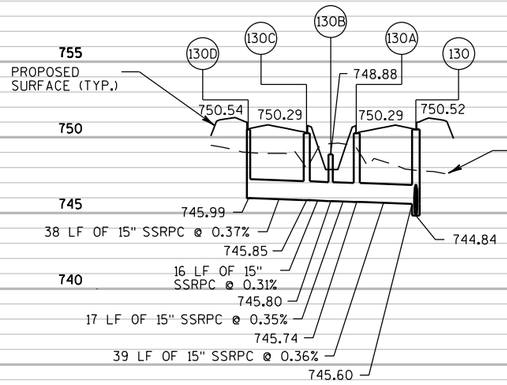
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WISDOT/CADDS SHEET 42

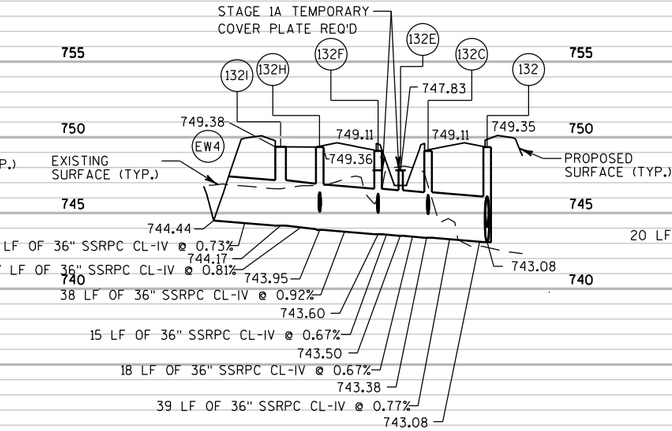
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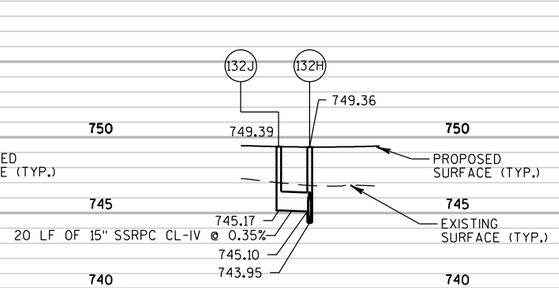


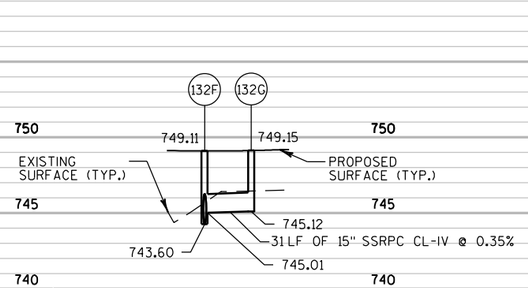


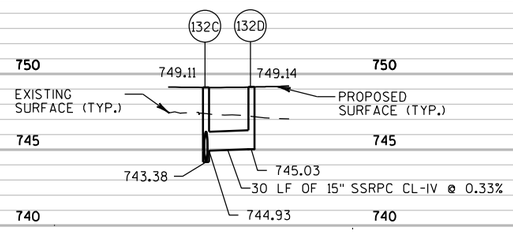
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD	SHEET 127	E

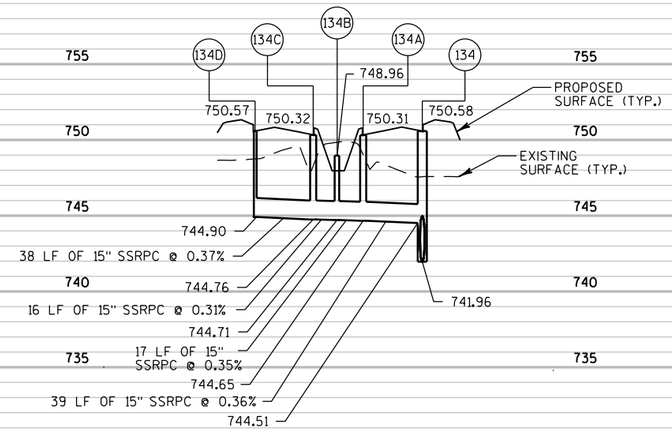


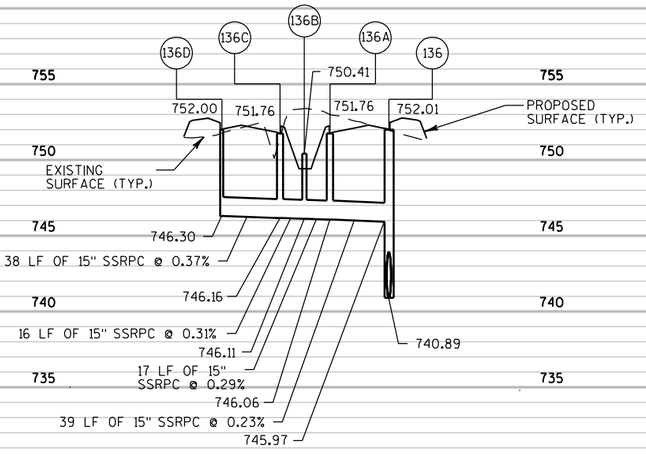












PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD PROFILES	SHEET 128	E

2

2

N

142D 141BRW+67.61, 1.00' RT
INLET 2x3-H

142C 141BRW+67.62, 1.50' RT
MANHOLE 4-H

143T 143BRW+19.57, 1.00' RT
INLET 2x3-H

143BRW+18.85, 37.00' LT
INLET 2x3-H
143N

143L 143BRW+19.70, 10.50' RT
MANHOLE 4-H

R/L BRAUN RD. WB

WB BRAUN ROAD

137BRW 138BRW 139BRW 140BRW 141BRW 142BRW 143BRW 144

MATCHLINE 136BRE+75

137BRE 138BRE 139BRE 140BRE 141BRE 142BRE 143BRE 144

MATCHLINE 144BRE+00

R/L BRAUN RD. EB

EB BRAUN ROAD

142F 141BRE+87+83, 1.50' LT
MANOLE 4-H

142 141BRE+93.85, 38.50' RT
MANHOLE 7-H

5004FC3A 5004FC3B

R/L FC3 NB

ACCESS FC3

143C 141BRE+79.67, 73.75' RT
INLET 4-H

138 138BRE+36.60, 37.50' RT
MANHOLE 5-H

PROPOSED R/W

CONSTRUCTED BY OTHERS

SLOPE INTERCEPT

R/L FC3 SB

PROPOSED SURFACE (TYP.)

138 753.21

142 749.58

EXISTING SURFACE (TYP.)

750 745 740 735

MATCHLINE 136BRE+75

205'OF 36" SSPRC @ 0.49%

357'OF 36" SSPRC @ 0.49%

268'OF 36" SSPRC @ 0.42%

739.89

738.13

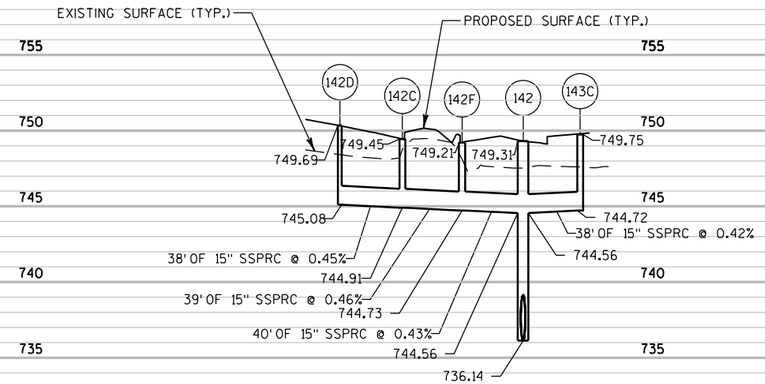
736.14

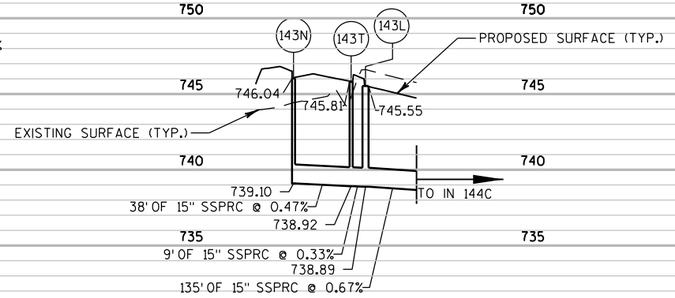
MATCHLINE 144BRE+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD	SHEET 129	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040PLOT DATE : 18 JUL 2025 19:24:58 BRAUN_PLN.dgn PLOT BY : apatek PLOT NAME : PLOT SCALE : 50:1

WISDOT/CADDS SHEET 42





2

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD PROFILES	SHEET 130	E

2

N

144BRW+53.87, 37.00' LT
INLET 2x3-H
144E

144BRW+54.46, 1.00' RT
INLET 2x3-HM
144D

144BRW+54.66, 11.00' RT
INLET 5-HM
144C

144BRE+55.26, 11.00' LT
INLET 2x3-H
144B

144BRE+55.40, 1.00' LT
INLET 2x3-H
144A

144BRE+56.10, 37.50' RT
MANHOLE 6-H
144

147BRW+15.81, 37.00' LT
INLET 2x3-H
147D

147BRW+16.18, 1.50' RT
INLET 4-H
147C

147BRE+16.68, 18.00' LT
MANHOLE 4-BEEHIVE
147B

147BRE+04, 18.00' LT
BIORETENTION TYPE A

147BRE+16.68, 1.50' LT
INLET 4-H
147A

147BRE+17.39, 37.00' RT
MANHOLE 6-H
147

148BRW+91.45, 37.00' LT
INLET 2x3-H
149D

148BRW+91.82, 1.50' RT
INLET 4-H
149C

148BRE+80, 18.00' LT
BIORETENTION TYPE B

148BRE+92.23, 18.00' LT
MANHOLE 4-BEEHIVE
149B

148BRE+92.15, 1.50' LT
INLET 4-H
149A

148BRE+91.99, 37.50' RT
MANHOLE 7-H
149

150BRE+00.00, 37.00' RT
COVER PLACE LEFT IN PLACE
EW8

X=604012.59; Y=170141.12
CONNECTED TO 36" PIPE
CONSTRUCTED BY OTHERS

R/L BRAUN RD. WB

R/L BRAUN RD. EB

WB BRAUN ROAD

EB BRAUN ROAD

MATCHLINE 144BRE+00

145BRW 146BRW 147BRW 148BRW 149BRW 150BRW 151BRW

145BRE 146BRE 147BRE 148BRE 149BRE 150BRE 151BRE

OH

PROPOSED R/W

SLOPE INTERCEPT

144

147

149

745

740

735

730

725

PROPOSED SURFACE (TYP.)

743.25

740.81

740.28

TO IN 142

EXISTING SURFACE (TYP.)

215' OF 36" SSPRC @ 0.40%

221' OF 36" SSPRC @ 0.39%

109' OF 36" SSPRC @ 0.50%

735.01

734.15

733.29

727.42

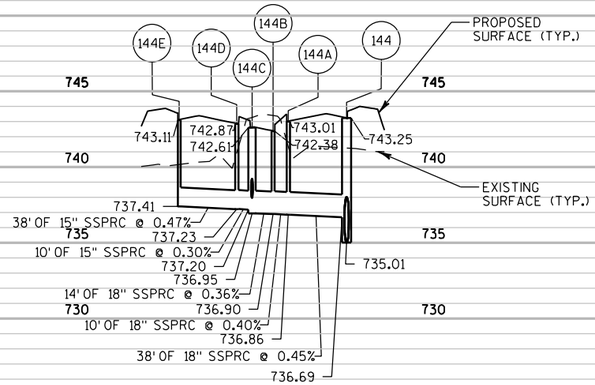
727.95
COVER PLATE LEFT IN PLACE
CONNECT TO FUTURE PROJECT

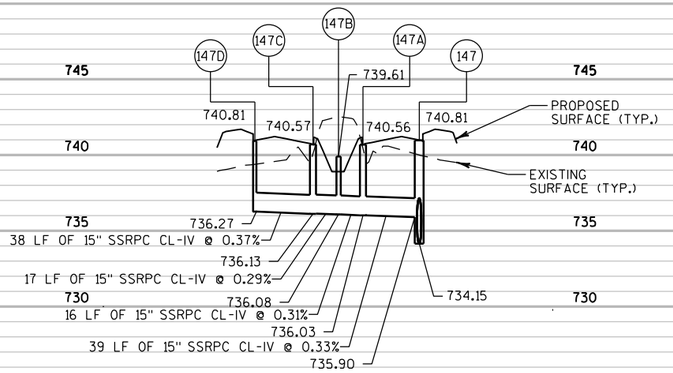
MATCHLINE 144BRE+00

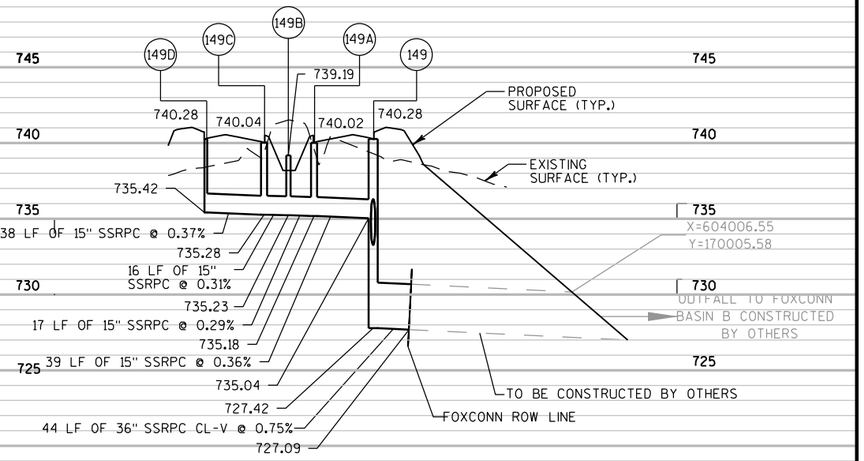
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD	SHEET 131	E

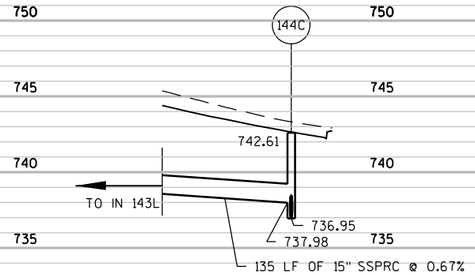
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WISDOT/CADDS SHEET 42


144E
144D
144C
144B
144A
144
PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
745
740
735
730
743.11
742.87
742.61
743.01
742.38
743.25
737.41
38' OF 15" SSPRC @ 0.47%
737.23
10' OF 15" SSPRC @ 0.30%
737.20
736.95
14' OF 18" SSPRC @ 0.36%
736.90
10' OF 18" SSPRC @ 0.40%
736.86
38' OF 18" SSPRC @ 0.45%
736.69
735.01


147D
147C
147B
147A
147
PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
745
740
735
730
740.81
740.57
739.61
740.56
740.81
736.27
38 LF OF 15" SSRPC CL-IV @ 0.37%
736.13
17 LF OF 15" SSRPC CL-IV @ 0.29%
736.08
16 LF OF 15" SSRPC CL-IV @ 0.31%
736.03
39 LF OF 15" SSRPC CL-IV @ 0.33%
735.90
734.15


149D
149C
149B
149A
149
PROPOSED SURFACE (TYP.)
EXISTING SURFACE (TYP.)
745
740
735
730
725
740.28
740.04
739.19
740.02
740.28
735.42
38 LF OF 15" SSRPC @ 0.37%
735.28
16 LF OF 15" SSRPC @ 0.31%
735.23
17 LF OF 15" SSRPC @ 0.29%
735.18
39 LF OF 15" SSRPC @ 0.36%
735.04
727.42
44 LF OF 36" SSRPC CL-V @ 0.75%
727.09
X=604006.55
Y=170005.58
OUTFALL TO FOXCONN BASIN B CONSTRUCTED BY OTHERS
TO BE CONSTRUCTED BY OTHERS
FOXCONN ROW LINE


144C
750
745
740
735
742.61
TO IN 143L
736.95
737.98
135 LF OF 15" SSPRC @ 0.67%

2

N

DELETED

100I 1003FC1A+04.42, 28.60' LT
INLET 2x3-H-S

100J 1002FC1A+94.18, 26.35' LT
INLET 2x3-H

100A 100BRE+36.85, 65.88' RT
INLET 4-H

100G 1003FC1A+09.27, 1.00' LT
INLET 2x3-H-S

100H 1002FC1A+97.96, 1.00' LT
INLET 2x3-H

100F 1002FC1B+94.54, 1.00' LT
INLET 2x3-H

100E 1003FC1B+04.30, 1.00' LT
INLET 2x3-H-S

100D 1002FC1B+94.31, 29.42' RT
INLET 2x3-H

100C 1003FC1B+04.32, 31.72' RT
MANHOLE 6-H-S

2000N3A+92.06, 14.89' LT 101I
INLET 2x3-H

200IN3A+25.90, 31.42' LT 101J
INLET 2x3-H-S

200IN3A+36.30, 29.45' LT 101K
INLET 2x3-H

200IN3A+25.94, 1.00' RT 101L
INLET 5-H-S

200IN3A+36.00, 1.00' RT 101M
INLET 2x3-H

200IN3B+36.01, 1.00' LT 101O
INLET 2x3-H

200IN3B+25.90, 1.00' LT 101N
INLET 2x3-H-S

200IN3B+35.97, 26.28' RT 101O
INLET 2x3-H

200IN3B+25.99, 28.51' RT 101P
INLET 2x3-H-S

100BRE+80.94, 66.11' LT 101G
INLET 5-H

1001FC1A 1002FC1A 1003FC1A 1004FC1A 200IN3A 2002N3A 2003N3A

1001FC1B 1002FC1B 1003FC1B 200IN3B 2002N3B 2003N3B

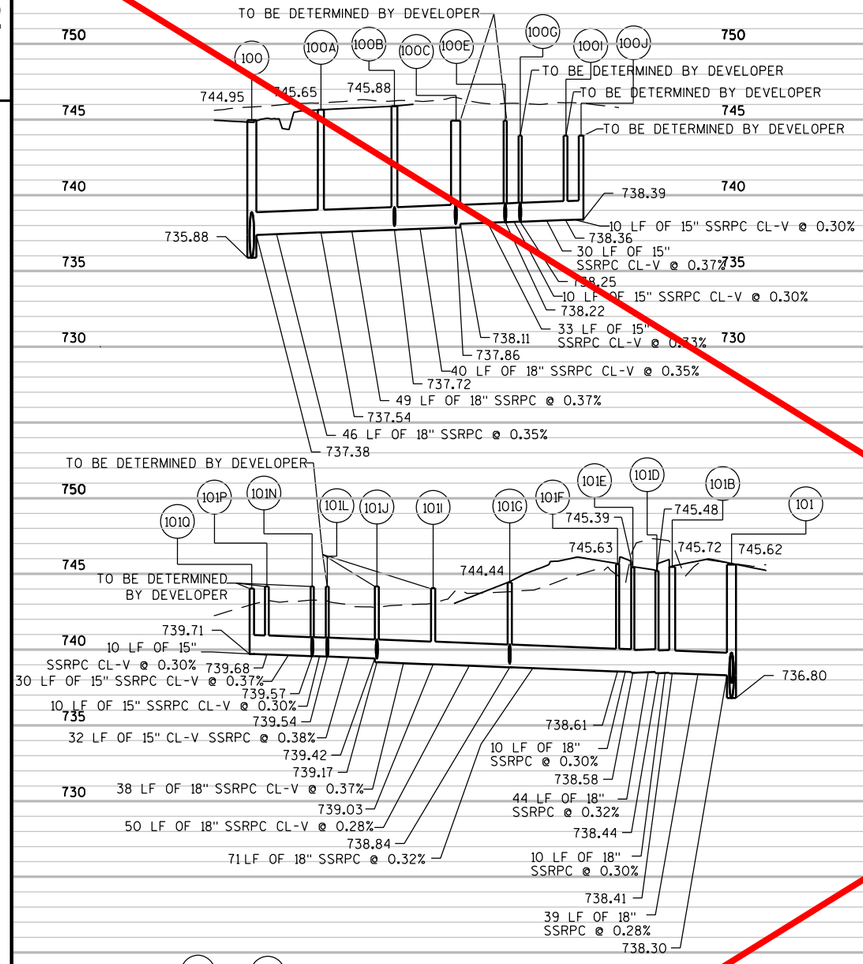
99BRE 99BRW 100BRE 100BRW 101BRE 101BRW 102BRE 102BRW 103BRE 103BRW

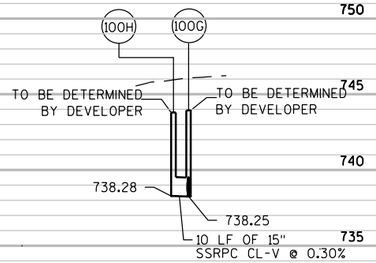
OH

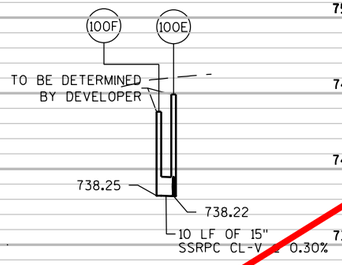
SEE ADDITIONAL PROFILES ON INTERCHANGE SHEETS

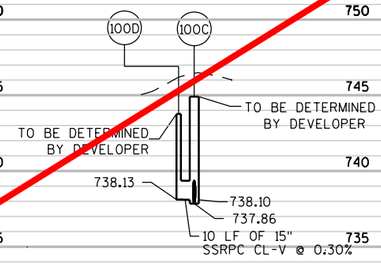
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD	SHEET	E

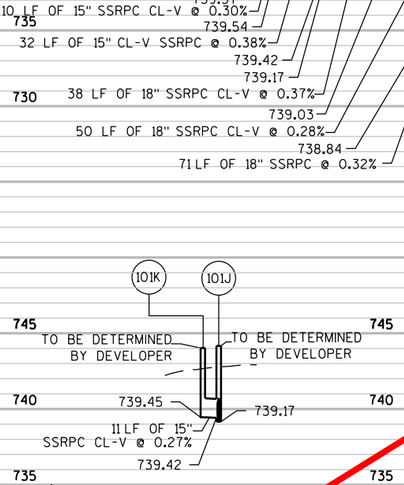
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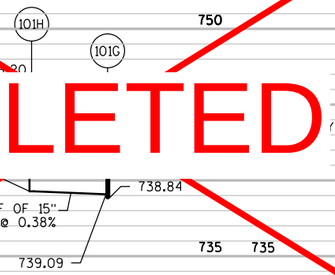


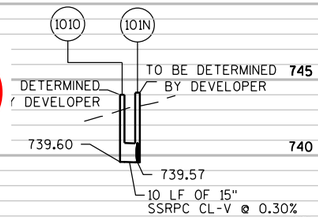


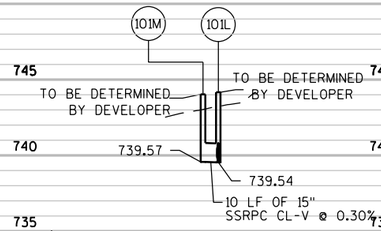












DELETED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD PROFILES	SHEET 134	E

2

N

DELETED

121BRE+57.28, 64.98' RT
INLET 5-H

3005FC2A+07.16, 28.68' LT
INLET 2x3-H-S

3004FC2A+96.78, 26.35' LT
INLET 2x3-H

3005FC2A+07.41, 1.00' RT
INLET 5-H-S

3004FC2A+97.02, 1.00' RT
INLET 2x3-H

3004FC2B+96.87, 25.00' LT
INLET 2x3-H

3005FC2B+07.49, 25.00' LT
INLET 2x3-H-S

3004FC2B+97.06, 29.29' RT
INLET 2x3-H

3005FC2B+07.22, 31.48' RT
INLET 2x3-HS

3005FC2B+41.30, 14.27' RT
INLET 2x3-H

4000N4A+89.19, 14.61' LT
INLET 2x3-H

4001N4A+25.90, 31.36' LT
INLET 2x3-H-S

4001N4A+36.22, 29.26' LT
INLET 2x3-H

4001N4A+26.00, 13.00' RT
INLET 2x3-H-S

4001N4A+36.00, 13.00' RT
INLET 2x3-H

4001N4B+36.05, 1.00' LT
INLET 2x3-H

4001N4B+26.00, 1.00' LT
INLET 5-H-S

4001N4B+35.92, 26.48' RT
INLET 2x3-H

4001N4B+25.91, 28.64' RT
INLET 2x3-H-S

122BRW+24.53, 07.27' LT
MANHOLE 5-H

3003FC2A 3004FC2A 3005FC2A 4001N4A 4002N4A 4003N4A

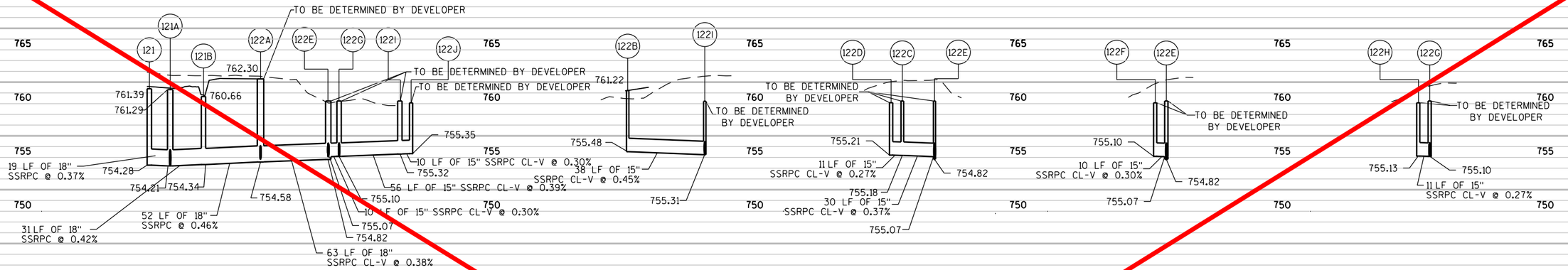
3003FC2B 3004FC2B 3005FC2B 4001N4B 4002N4B 4003N4B

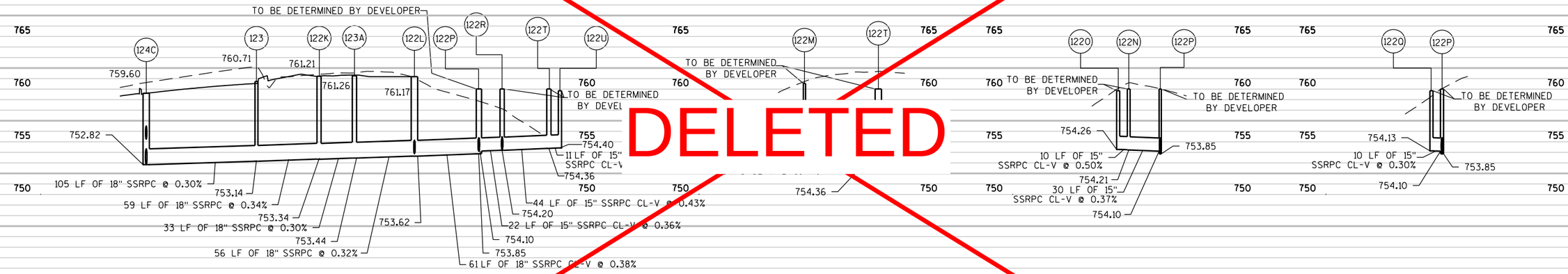
120BRE 120BRW 121BRE 121BRW 123BRE 123BRW 124BRE 124BRW

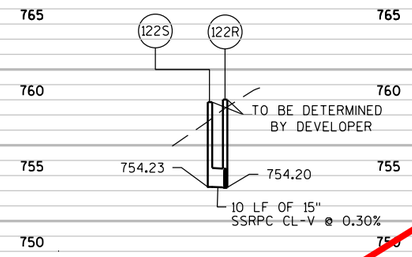
SEE ADDITIONAL PROFILES ON INTERCHANGE SHEETS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN_PLOT.dgn PLOT DATE : 14 Jun 2022 13:55:11 USER NAME : apatek PLOT NAME : PLOT SCALE : 50:1







DELETED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD PROFILES	SHEET 136	E

2

N

DELETED

142BRE+26.14, 68.04' RT
INLET 4-H

143J 5003FC3A+04.25, 28.54' LT
INLET 2x3-H-S

143K 5002FC3A+94.29, 26.35' LT
INLET 2x3-H

143H 5003FC3A+04.38, 1.00' RT
INLET 2x3-H-S

143I 5002FC3A+94.27, 1.00' RT
INLET 2x3-H

5001FC3A
5001FC3B
5002FC3A
5002FC3B
5003FC3A
5003FC3B

143G 5002FC3B+94.28, 1.00' LT
INLET 2x3-H

143F 5003FC3B+04.64, 1.00' LT
INLET 2x3-H-S

143E 5002FC3B+94.31, 29.32' RT
INLET 2x3-H

143D 5003FC3B+04.26, 31.37' RT
MANHOLE 5-H-S

143A 5003FC3B+40.24, 14.11' RT
INLET 5-H

141BRE
141BRW
142BRE
142BRW
143BRE
143BRW
144BRE
144BRW

OH
MH

600IN5A+26.01, 31.58' LT
INLET 2x3-H-S

600IN5A+35.97, 29.38' LT
INLET 2x3-H

600IN5A+25.75, 1.00' RT
INLET 2x3-H-S

600IN5A+36.00, 1.00' RT
INLET 2x3-H

600IN5A
600IN5B
6002N5A
6002N5B
6003N5A
6003N5B

600IN5B+36.10, 1.00' LT
INLET 2x3-H

600IN5B+25.90, 1.00' LT
INLET 2x3-H-S

600IN5B+35.91, 26.23' RT
INLET 2x3-H

600IN5B+26.45, 28.30' RT
INLET 4-H-S

142BRW+69.76, 65.31' LT
MANHOLE 6-H

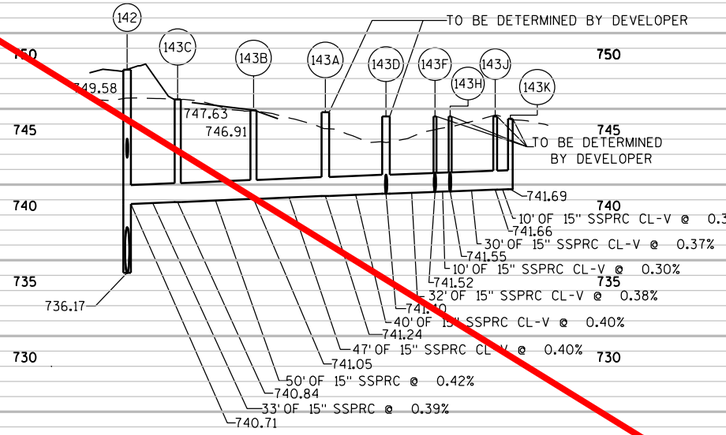
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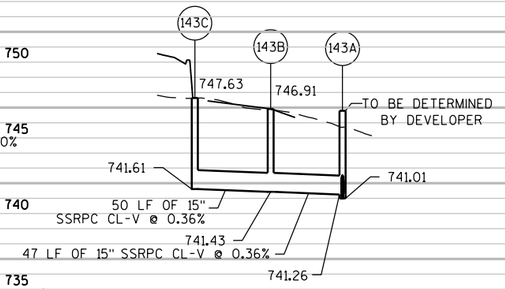
SEE ADDITIONAL PROFILES ON INTERCHANGE SHEETS

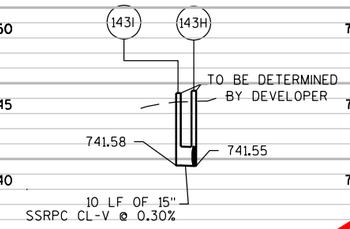
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD	SHEET 137	E

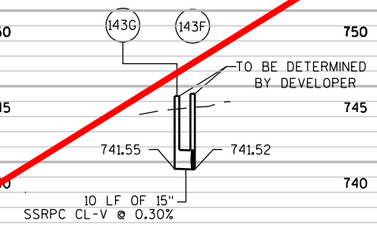
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBRAUN_PLOT.dgn PLOT DATE : 14:25 2022 11:55:14 USER : apatek PLOT NAME : PLOT SCALE : 50:1

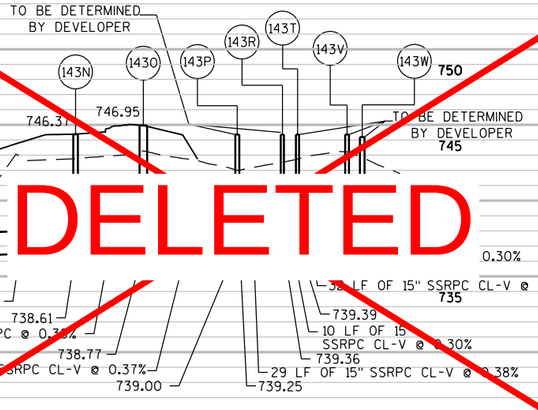
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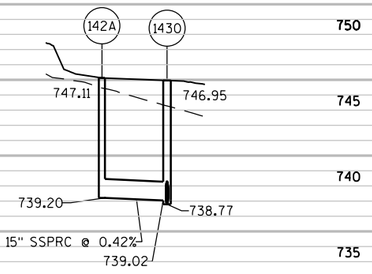


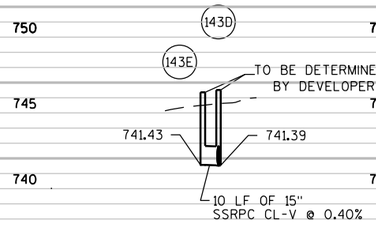


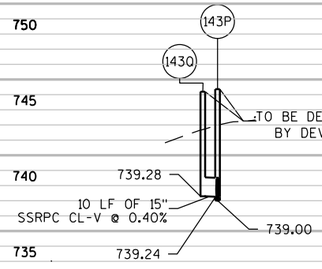


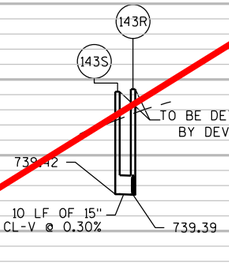


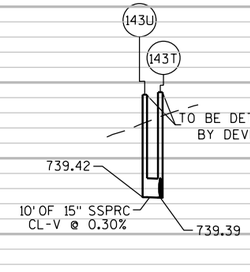












DELETED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORM SEWER: BRAUN ROAD PROFILES	SHEET 138	E

2

N

WB BRAUN ROAD

EB BRAUN ROAD

81BRW 82BRW 83BRW 84BRW 85BRW 86BRW 87BRW 88BRW 89BRW

81BRE 82BRE 83BRE 84BRE 85BRE 86BRE 87BRE 88BRE 89BRE

POND OUTLET CONTROL MANHOLE

PROPOSED R/W

CURVE 2

CURVE 1

CURVE 3

EW7

EW6

POND A

POND BOTTOM EL = 727.00

EMERGENCY SPILLWAY EL 731.75 10' WIDE

KILBOURN ROAD (BYPASS)

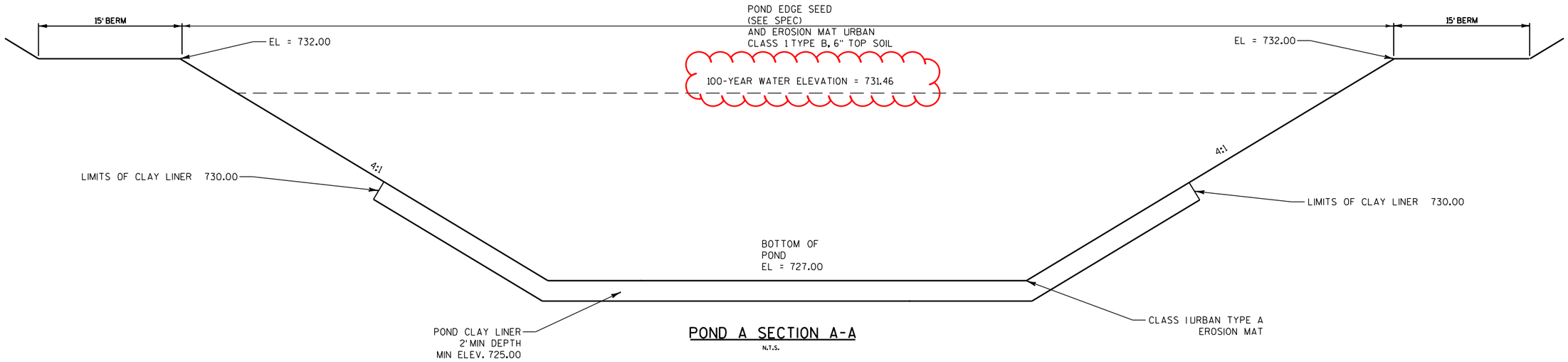
CURVE 1	CURVE 2	CURVE 3
PC = 11+46.65	PC = 14+11.24	PC = 15+73.07
X = 597689.45	X = 597536.30	X = 597482.30
Y = 170099.25	Y = 170199.20	Y = 170068.20
PI = 13+36.99	PI =14+65.24	PI = 16+69.82
X = 597851.43	X = 597482.30	X = 597482.20
Y = 170199.20	Y = 170199.20	Y = 169971.44
PT = 12+86.44	PT = 14+96.06	PT = 16+87.74
X = 597661.09	X = 597482.30	X = 597564.64
Y = 170199.20	Y = 170145.20	Y = 170022.23
R = 54.0000	R = 54.0000	R = 54.0000
DELTA = 148°19'20.96"	DELTA = 90°00'00.00"	DELTA = 121°40'00.85"
D = 106°06'11.86"	D = 106°06'11.86"	D = 106°06'11.86"
L = 139.7907	L = 84.8230	L = 114.6684
T = 190.3404	T = 54.0000	T = 96.7542
BK = N 58°19'20.96" E	BK = S 90°00'00.00" W	BK = S 0°00'00.00" W
AH = S 90°00'00.00" W	AH = S 0°00'00.00" E	AH = N 58°19'59.15" E

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORMWATER POND: DETAIL SHEET	SHEET 139	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun_t15.dgn 2/2/2021 1:39:08 AM PLOT BY : apatek PLOT NAME : PLOT SCALE : 60:1

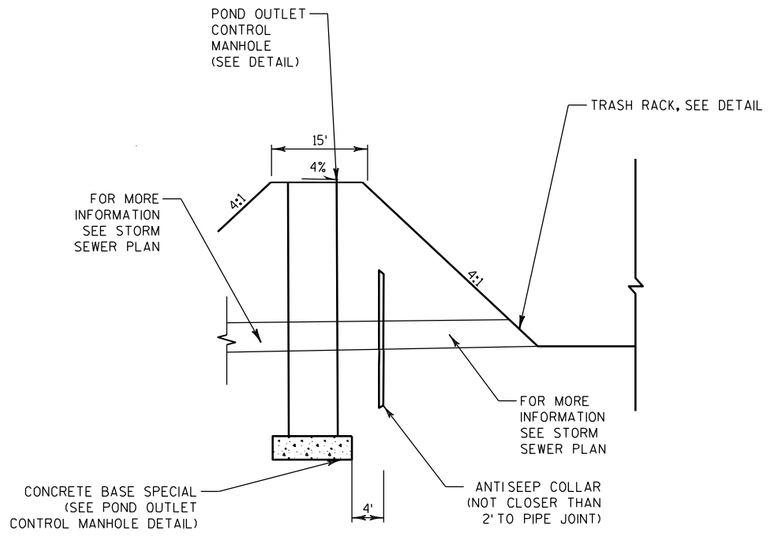
WISDOT/CADDS SHEET 42

2



POND A SECTION A-A

N.T.S.

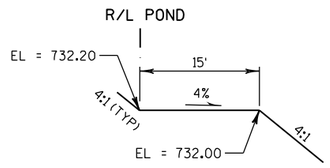


POND SECTION A-A

NOT TO SCALE

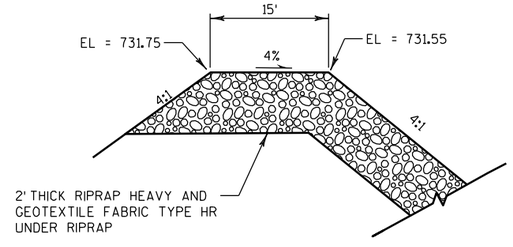
NOTES

1. REFER TO STANDARD DETAIL CATCH BASIN 6-FT DIAMETER FOR OTHER INFORMATION.
2. OUTLET STRUCTURE WILL BE PAID FOR AS POND OUTLET CONTROL MANHOLE.
3. TRASH RACKS WILL BE GALVANIZED OR SIMILARLY PROTECTED FROM CORROSION.
4. CONNECTOR DEVICE WILL BE REMOVABLE AND APPROVED BY THE ENGINEER



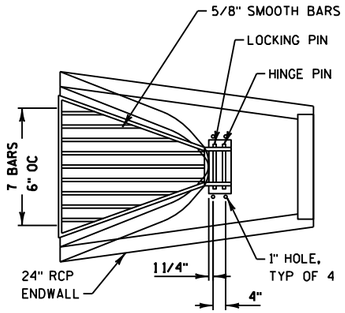
TYPICAL SECTION POND ACCESS ROAD

STA 12PA+00 TO STA 12PA+00

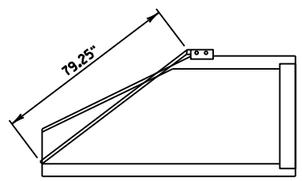


TYPICAL SECTION POND ACCESS ROAD - EMERGENCY SPILLWAY

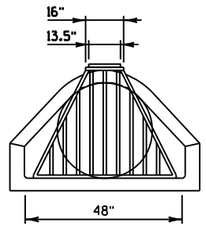
STA 11PA+38 TO STA 11PA+48



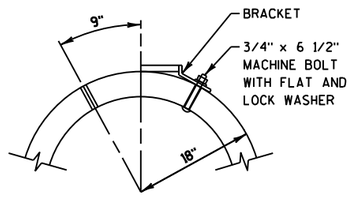
PLAN



SIDE VIEW

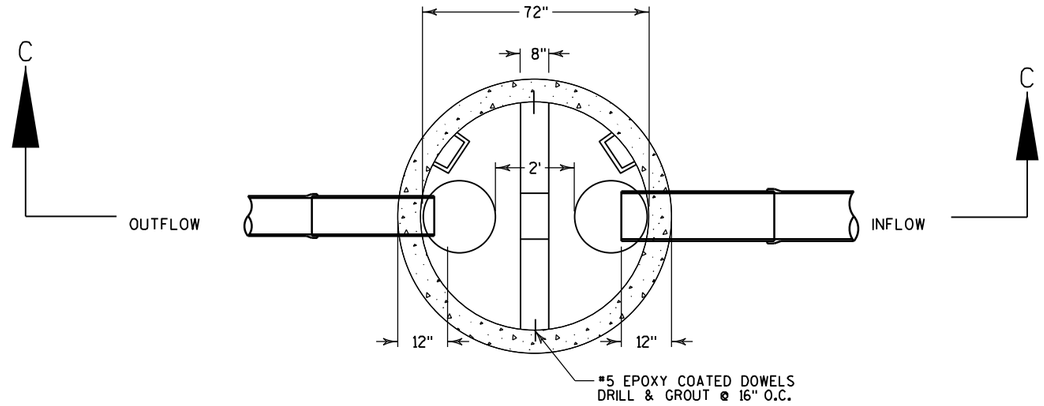


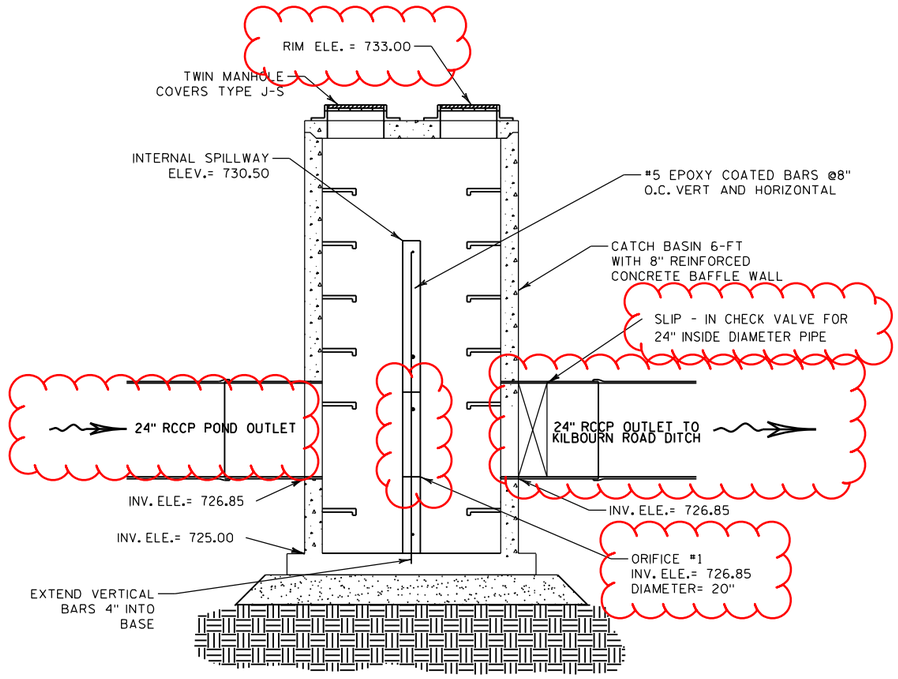
END VIEW



CROSS SECTION

TRASH RACK DETAIL
N.T.S.





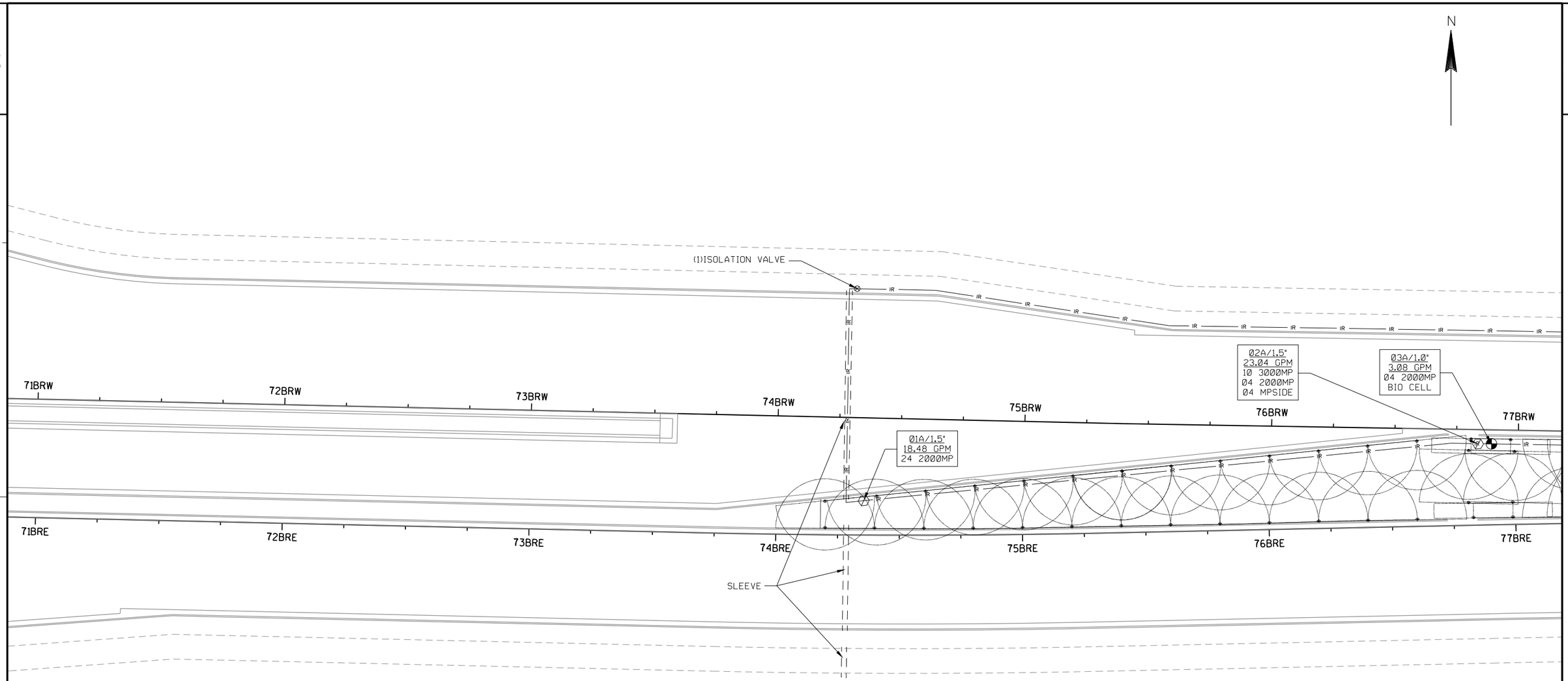
POND A OUTLET CONTROLS MANHOLE SECTION C-C
N.T.S.

2

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STORMWATER POND: DETAIL SHEET	SHEET 141	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun\t15_c25x2228010_s40b57dgM PLOT BY : apatek PLOT NAME : PLOT SCALE : 60:1
WISDOT/CADDS SHEET 42

2



LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

IR — MAIN LINE – 2" PVC SDR–21 UNLESS NOTED OTHERWISE ON PLAN.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C — 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2–WIRE TECHNOLOGY.
PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS.
RAIN BIRD ESP–LXD + (2) ESPLXD–SM75 OR APPROVED EQUIVALENT

2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ.
RAIN BIRD 200–EFB–CP OR APPROVED EQUIVALENT

FS — 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL
SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM.
RAIN BIRD FS–200–P OR APPROVED EQUIVALENT

2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

PGA–150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE
DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE
LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS.
RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

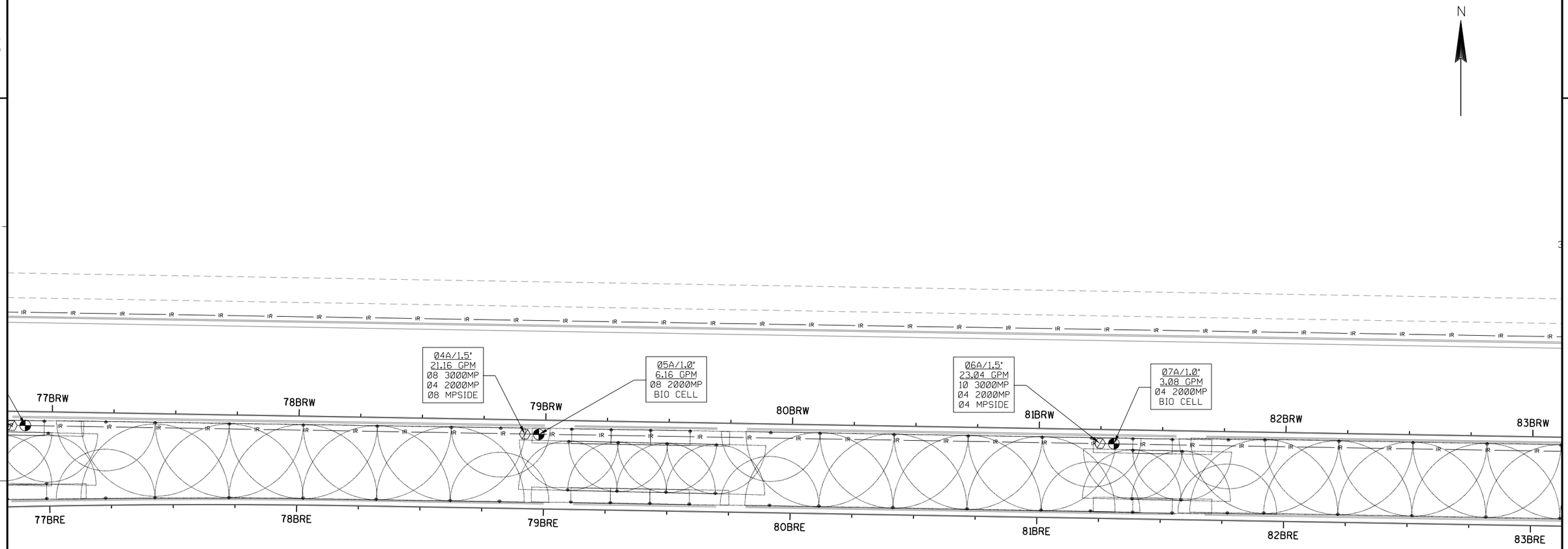
PGA–100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE
DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE
LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS.
RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

POP–UP SPRAY HEAD W/ SEAL–A–MATIC (SAM) CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
2000MP: 20–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT

POP–UP SPRAY HEAD W/ SAM SEAL–A–MATIC CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	SITE DESIGN	SHEET 142	E

2



LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

IR — MAIN LINE – 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C — 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY.
PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS.
RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT

2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ.
RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT

FS — 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL
SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM.
RAIN BIRD FS-200-P OR APPROVED EQUIVALENT

2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE
DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE
LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS.
RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE
DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE
LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS.
RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT

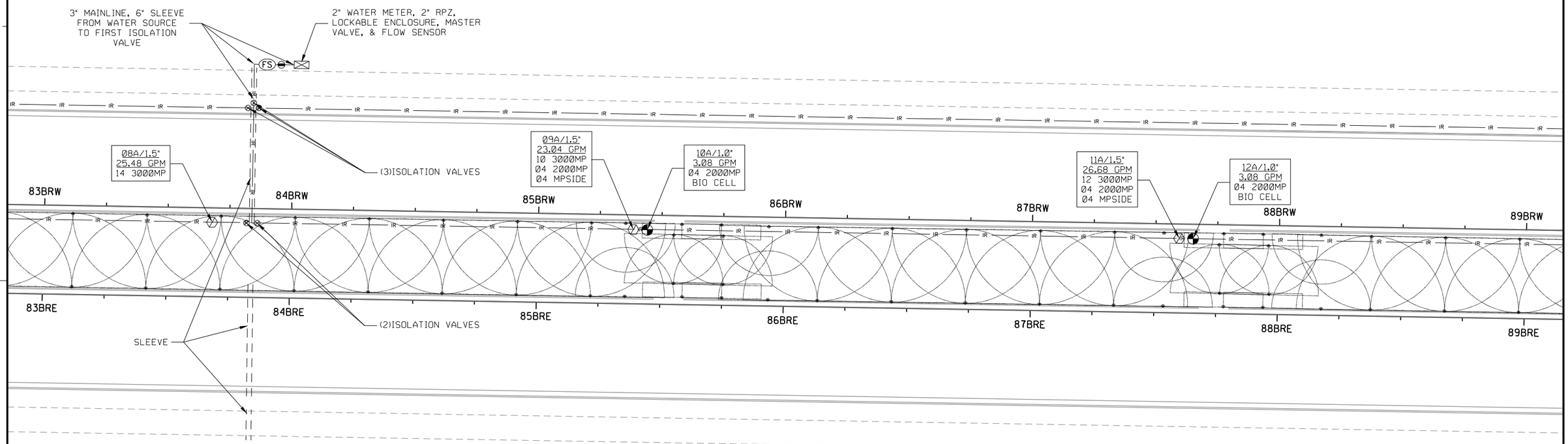
POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	SITE DESIGN	SHEET 143	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\Braun\Plansets\Braun_Phase1\023114_IR.dgn PLOT DATE : 8/30/2018 PLOT BY : jkoopmann PLOT NAME : PLOT SCALE : 1:40

2

N



LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

IR — MAIN LINE – 2" PVC SDR–21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C — 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2–WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP–LXD + (2) ESPLXD–SM75 OR APPROVED EQUIVALENT

2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200–EFB–CP OR APPROVED EQUIVALENT

FS — 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS–200–P OR APPROVED EQUIVALENT

2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

PGA–150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

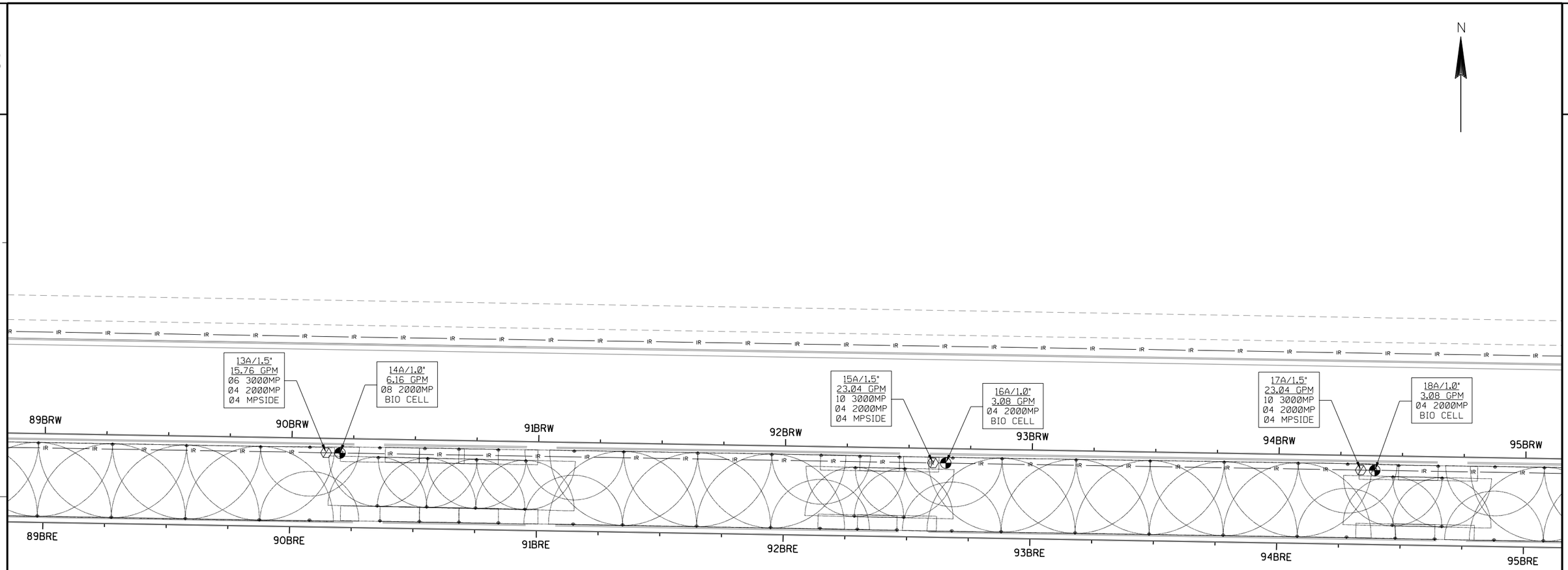
PGA–100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

POP–UP SPRAY HEAD W/ SEAL–A–MATIC (SAM) CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
2000MP: 20–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT

POP–UP SPRAY HEAD W/ SAM SEAL–A–MATIC CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	SITE DESIGN	SHEET 144	E

2



LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

IR
MAIN LINE – 2" PVC SDR–21 UNLESS NOTED OTHERWISE ON PLAN.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C
200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2–WIRE TECHNOLOGY.
PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS.
RAIN BIRD ESP–LXD + (2) ESPLXD–SM75 OR APPROVED EQUIVALENT

2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ.
RAIN BIRD 200–EFB–CP OR APPROVED EQUIVALENT

FS
2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL
SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM.
RAIN BIRD FS–200–P OR APPROVED EQUIVALENT

2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

PGA–150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE
DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE
LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS.
RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

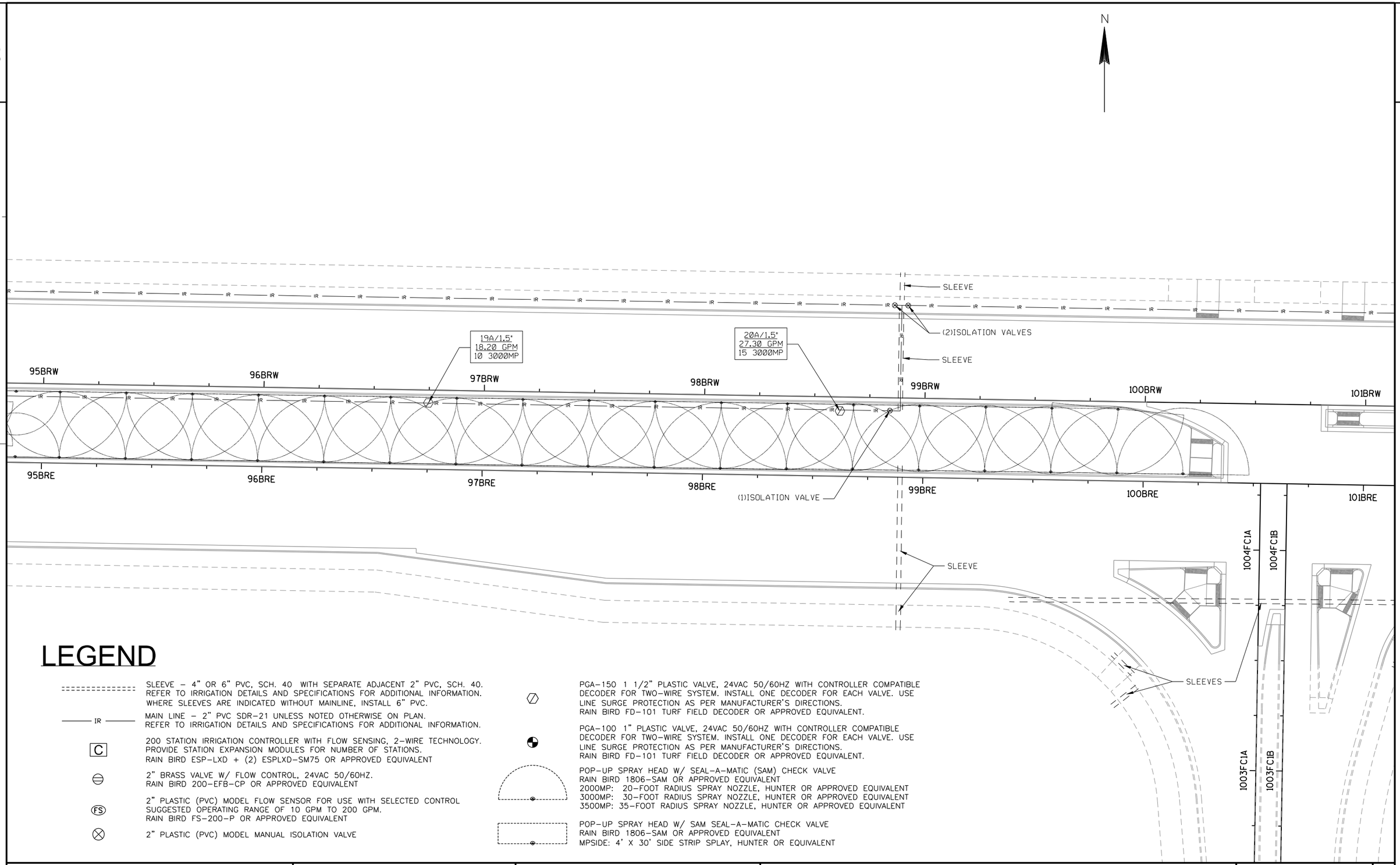
PGA–100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE
DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE
LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS.
RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

POP–UP SPRAY HEAD W/ SEAL–A–MATIC (SAM) CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
2000MP: 20–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT

POP–UP SPRAY HEAD W/ SAM SEAL–A–MATIC CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	SITE DESIGN	SHEET 145	E

2



LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

IR — MAIN LINE – 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C — 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT

2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT

FS — 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS-200-P OR APPROVED EQUIVALENT

2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT

POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT

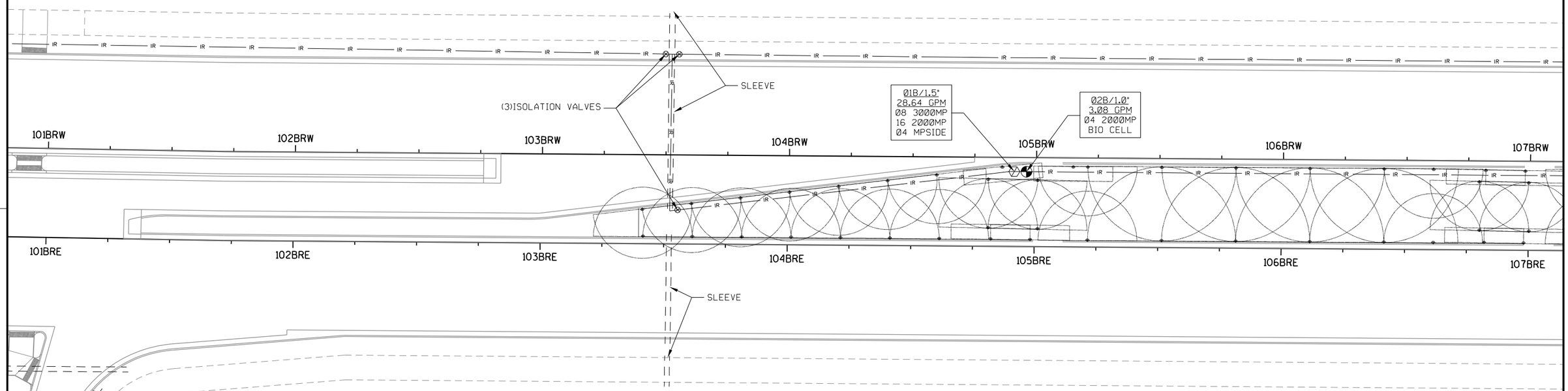
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	SITE DESIGN	SHEET 146	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\Braun\Plansets\Braun_Phase1\023117_IR.dgn PLOT DATE : 8/30/2018 PLOT BY : jkoopmann PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

N



LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

IR — MAIN LINE – 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C — 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY.
PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS.
RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT

2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ.
RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT

FS — 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL
SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM.
RAIN BIRD FS-200-P OR APPROVED EQUIVALENT

2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE
DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE
LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS.
RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE
DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE
LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS.
RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

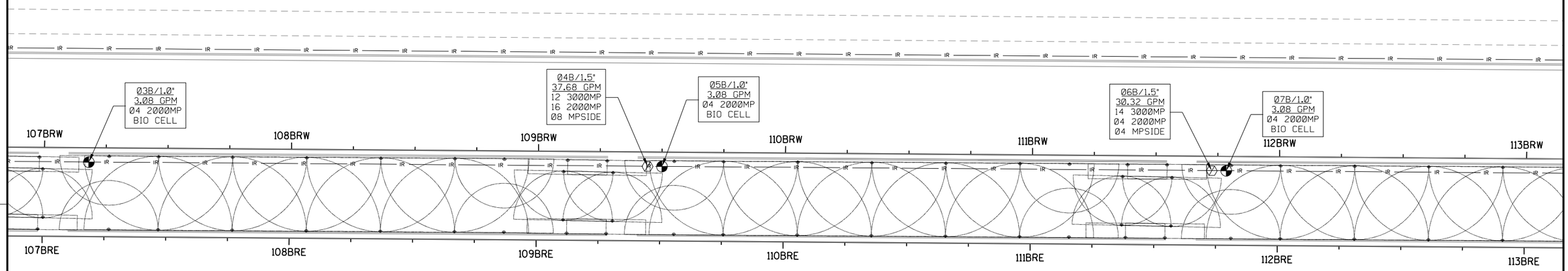
POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT

POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	SITE DESIGN	SHEET 147	E

2

N



LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

IR — MAIN LINE – 2" PVC SDR–21 UNLESS NOTED OTHERWISE ON PLAN.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C — 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2–WIRE TECHNOLOGY.
PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS.
RAIN BIRD ESP–LXD + (2) ESPLXD–SM75 OR APPROVED EQUIVALENT

2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ.
RAIN BIRD 200–EFB–CP OR APPROVED EQUIVALENT

FS — 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL
SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM.
RAIN BIRD FS–200–P OR APPROVED EQUIVALENT

2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

PGA–150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE
DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE
LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS.
RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

PGA–100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE
DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE
LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS.
RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

POP–UP SPRAY HEAD W/ SEAL–A–MATIC (SAM) CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
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3000MP: 30–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT

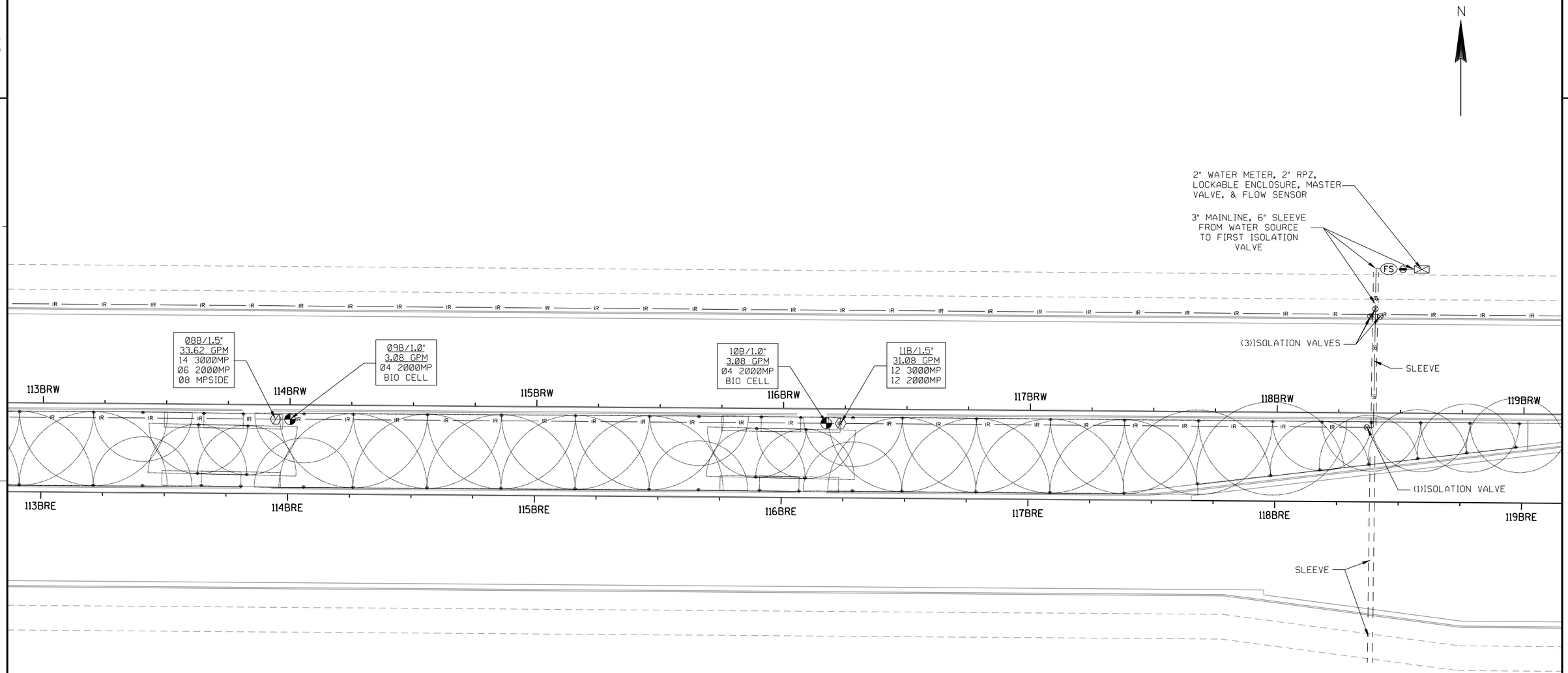
POP–UP SPRAY HEAD W/ SAM SEAL–A–MATIC CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	SITE DESIGN	SHEET 148	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\Braun\Plansets\Braun_Phase1\023119_IR.dgn PLOT DATE : 8/30/2018 PLOT BY : jkoopmann PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2



LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

IR — MAIN LINE – 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C — 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT

2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT

FS — 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS-200-P OR APPROVED EQUIVALENT

2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT

POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	SITE DESIGN	SHEET 149	E

LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

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RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

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POP–UP SPRAY HEAD W/ SEAL–A–MATIC (SAM) CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
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POP–UP SPRAY HEAD W/ SAM SEAL–A–MATIC CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT

N

400IN4A
400IN4B
3006FC2A
3006FC2B
3005FC2A
3005FC2B

119BRW 120BRW 121BRW 122BRW 123BRW 124BRW 125BRW
119BRE 120BRE 121BRE 122BRE 123BRE 124BRE 125BRE

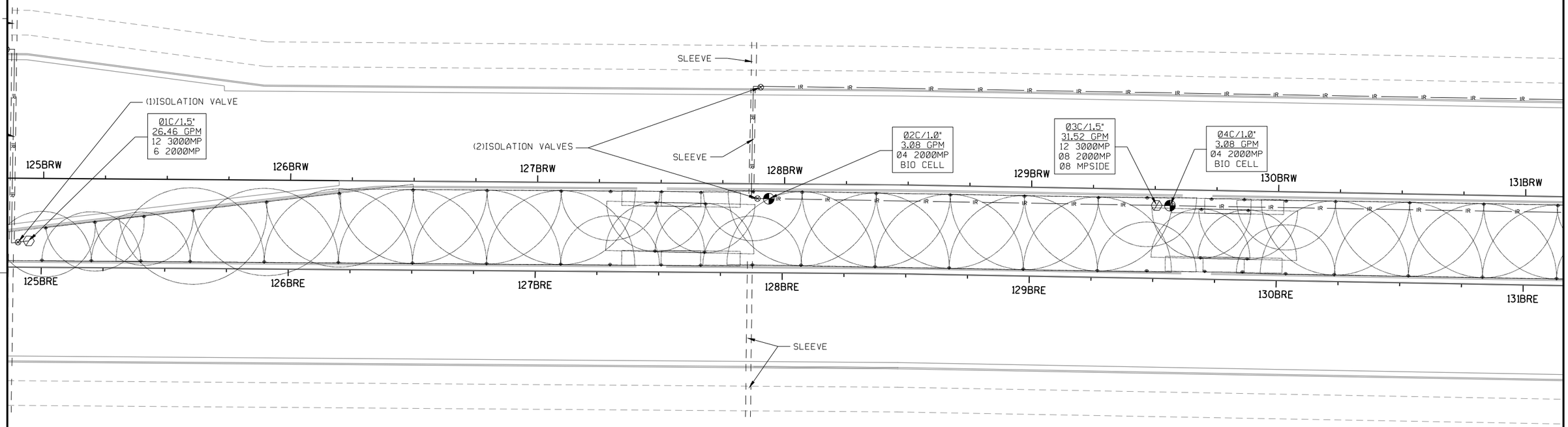
SLEEVES
SLEEVE
(1)ISOLATION VALVE
(2)ISOLATION VALVES
C
CONTROL PANEL: PROVIDE CONDUIT AND POWER FROM METER BREAKER PEDESTAL NEAR TRAFFIC SIGNAL CABINET. PROVIDE 2" SLEEVE UNDER SIDEWALK FOR CONNECTION

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	SITE DESIGN	SHEET 150	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\Braun\Plansets\Braun_Phase1\023121_IR.dgn PLOT DATE : 8/30/2018 PLOT BY : jkoopmann PLOT NAME : PLOT SCALE : 1:40

2

N



LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

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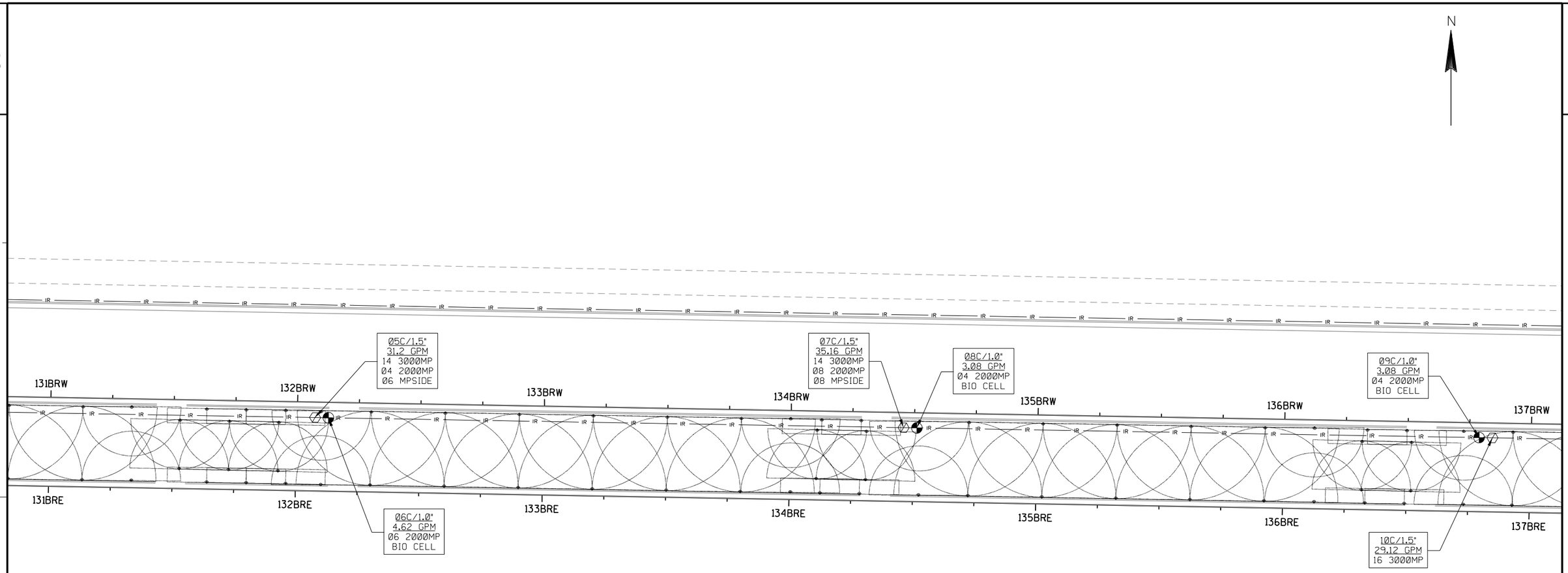
PGA–100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

POP–UP SPRAY HEAD W/ SEAL–A–MATIC (SAM) CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
2000MP: 20–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT

POP–UP SPRAY HEAD W/ SAM SEAL–A–MATIC CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	SITE DESIGN	SHEET 151	E

2



LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

IR — MAIN LINE – 2" PVC SDR–21 UNLESS NOTED OTHERWISE ON PLAN. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C — 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2–WIRE TECHNOLOGY. PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS. RAIN BIRD ESP–LXD + (2) ESPLXD–SM75 OR APPROVED EQUIVALENT

2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ. RAIN BIRD 200–EFB–CP OR APPROVED EQUIVALENT

FS — 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM. RAIN BIRD FS–200–P OR APPROVED EQUIVALENT

2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

PGA–150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

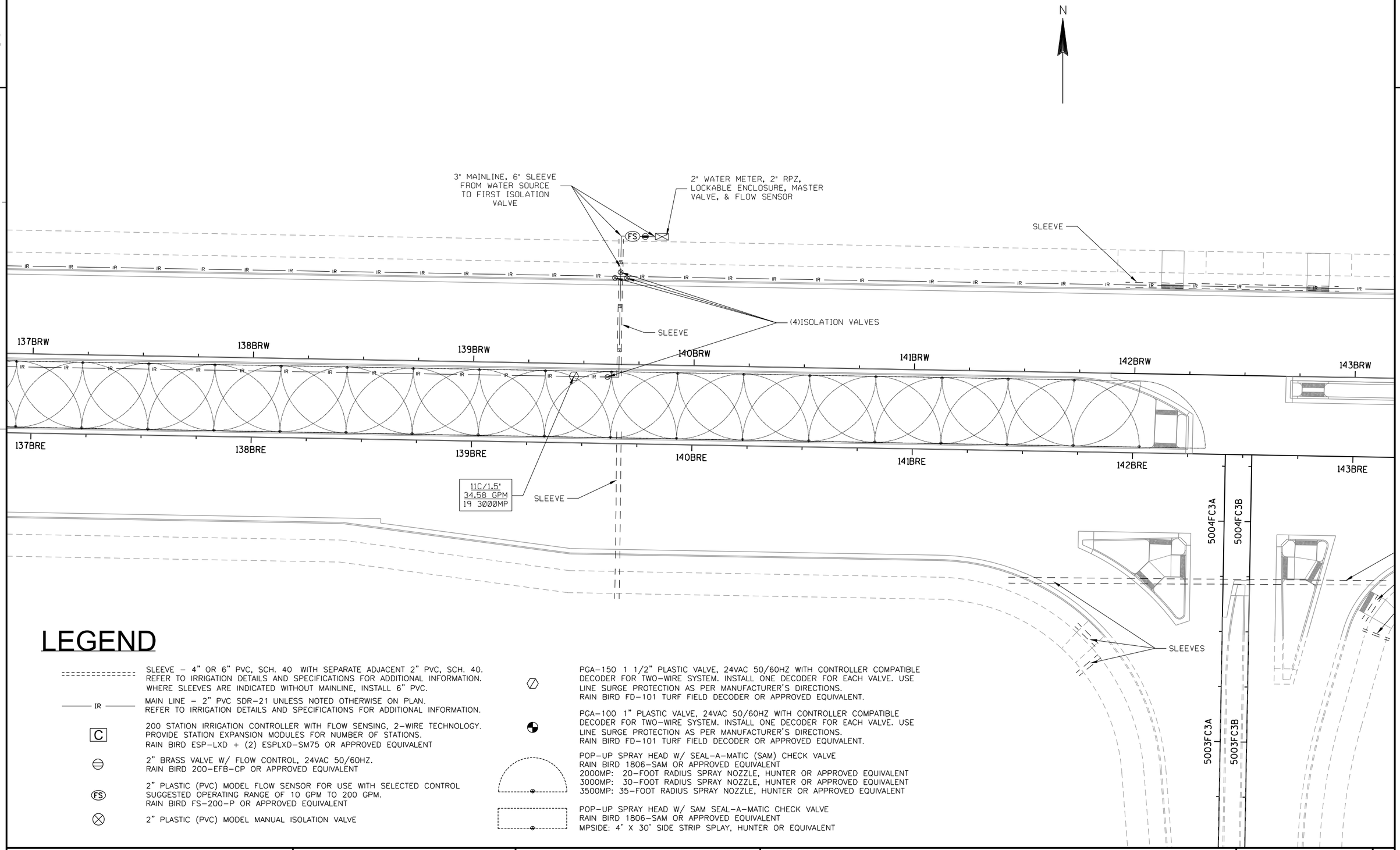
PGA–100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

POP–UP SPRAY HEAD W/ SEAL–A–MATIC (SAM) CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
2000MP: 20–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
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3500MP: 35–FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT

POP–UP SPRAY HEAD W/ SAM SEAL–A–MATIC CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	SITE DESIGN	SHEET 152	E

2



LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

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2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

PGA–150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

PGA–100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS. RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

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POP–UP SPRAY HEAD W/ SAM SEAL–A–MATIC CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	SITE DESIGN	SHEET 153	E

2

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SLEEVE

(1)ISOLATION VALVE

SLEEVE

11C/1.0"
3.08 GPM
04 2000MP
BIO CELL

12C/1.5"
27.10 GPM
08 3000MP
14 2000MP
04 MPSIDE

14C/1.5"
15.76 GPM
06 3000MP
04 2000MP
04 MPSIDE

143BRW 144BRW 145BRW 146BRW 147BRW 148BRW 149BRW

143BRE 144BRE 145BRE 146BRE 147BRE 148BRE 149BRE

13C/1.0"
3.08 GPM
04 2000MP
BIO CELL

(1)ISOLATION VALVE

SLEEVE

SLEEVES

LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

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RAIN BIRD FD–101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

PGA–100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE
DECODER FOR TWO–WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE
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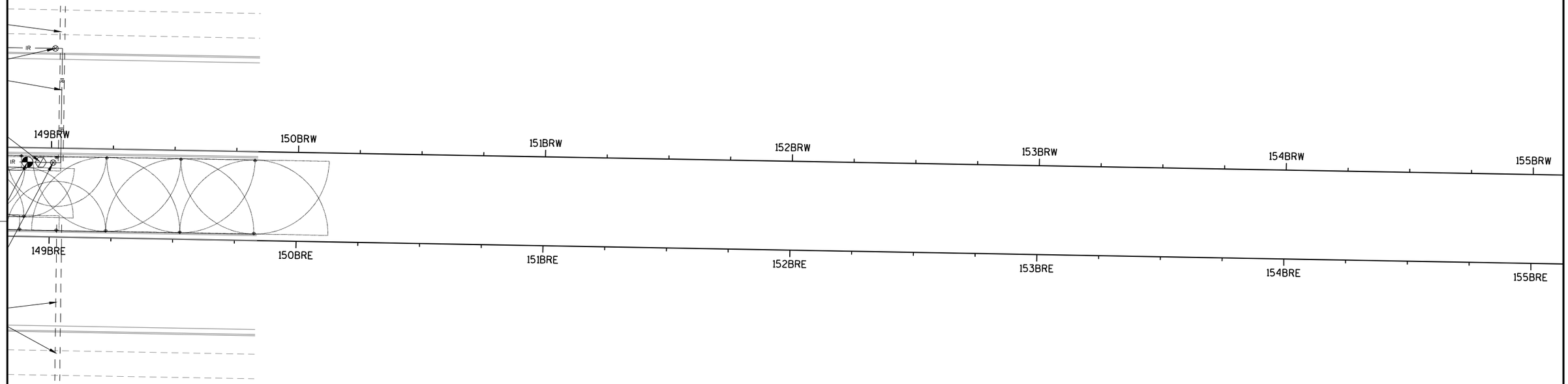
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RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
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POP–UP SPRAY HEAD W/ SAM SEAL–A–MATIC CHECK VALVE
RAIN BIRD 1806–SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	SITE DESIGN	SHEET 154	E

2

N



LEGEND

SLEEVE – 4" OR 6" PVC, SCH. 40 WITH SEPARATE ADJACENT 2" PVC, SCH. 40.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
WHERE SLEEVES ARE INDICATED WITHOUT MAINLINE, INSTALL 6" PVC.

IR — MAIN LINE – 2" PVC SDR-21 UNLESS NOTED OTHERWISE ON PLAN.
REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

C — 200 STATION IRRIGATION CONTROLLER WITH FLOW SENSING, 2-WIRE TECHNOLOGY.
PROVIDE STATION EXPANSION MODULES FOR NUMBER OF STATIONS.
RAIN BIRD ESP-LXD + (2) ESPLXD-SM75 OR APPROVED EQUIVALENT

2" BRASS VALVE W/ FLOW CONTROL, 24VAC 50/60HZ.
RAIN BIRD 200-EFB-CP OR APPROVED EQUIVALENT

FS — 2" PLASTIC (PVC) MODEL FLOW SENSOR FOR USE WITH SELECTED CONTROL
SUGGESTED OPERATING RANGE OF 10 GPM TO 200 GPM.
RAIN BIRD FS-200-P OR APPROVED EQUIVALENT

2" PLASTIC (PVC) MODEL MANUAL ISOLATION VALVE

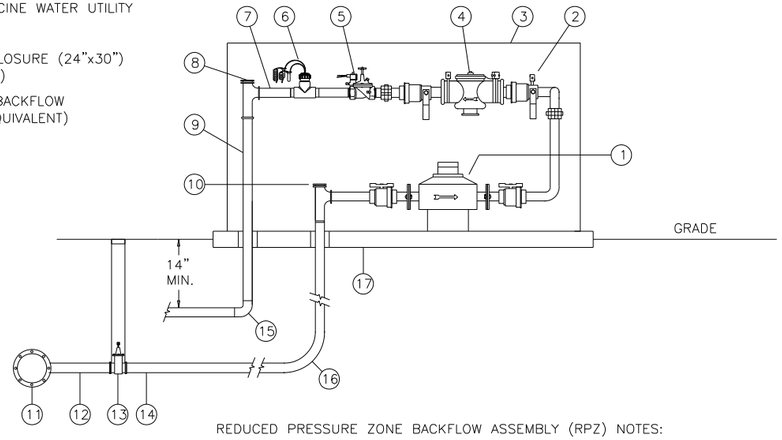
PGA-150 1 1/2" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE
DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE
LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS.
RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

PGA-100 1" PLASTIC VALVE, 24VAC 50/60HZ WITH CONTROLLER COMPATIBLE
DECODER FOR TWO-WIRE SYSTEM. INSTALL ONE DECODER FOR EACH VALVE. USE
LINE SURGE PROTECTION AS PER MANUFACTURER'S DIRECTIONS.
RAIN BIRD FD-101 TURF FIELD DECODER OR APPROVED EQUIVALENT.

POP-UP SPRAY HEAD W/ SEAL-A-MATIC (SAM) CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
2000MP: 20-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3000MP: 30-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT
3500MP: 35-FOOT RADIUS SPRAY NOZZLE, HUNTER OR APPROVED EQUIVALENT

POP-UP SPRAY HEAD W/ SAM SEAL-A-MATIC CHECK VALVE
RAIN BIRD 1806-SAM OR APPROVED EQUIVALENT
MPSIDE: 4' X 30' SIDE STRIP SPLAY, HUNTER OR EQUIVALENT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	SITE DESIGN	SHEET 155	E



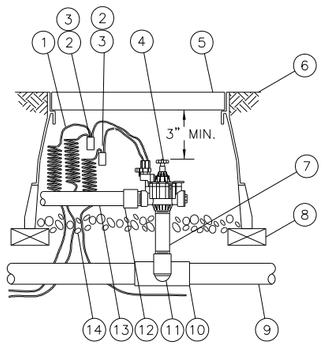
1. 2" WATER METER – COORIDANTE WITH RACINE WATER UTILITY
2. 1–1/2" FULL FLOW BALL VALVE
3. BACKFLOW PREVENTER/WATER METER ENCLOSURE (24"x30") (WATERTRONICS OR APPROVED EQUIVALENT)
4. RPZ: 2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (WATTS 009 OR APPROVED EQUIVALENT)
5. 2" MASTER VALVE
6. 2" FLOW SENSOR
7. 2" PIPE
8. 1 1/2" BLOWOUT PLUG
9. 3" DROP PIPE
10. 2" SYPHON PLUG
11. EXISTING WATER MAIN
12. 2" WATER LATERAL TO CURB STOP VALVE (BY WATERMAIN UTILITY INSTALLER)
13. 2" SHUTOFF VALVE (BY WATERMAIN UTILITY INSTALLER)
13. 2" SHUTOFF VALVE (BY WATERMAIN UTILITY INSTALLER)
14. P.O.C. AFTER CURB STOP VALVE BY WATER/SEWER CONTRACTOR
15. 2" IRRIGATION MAINLINE, TRANSITION TO 3" AFTER 90° BEND WITH 2" TO 3" BUSHING
16. 2" WATER SERVICE– STUBBED A MINIMUM OF 2' ABOVE GRADE (INSTALLED BY WATER/SEWER CONTRACTOR)
17. CONCRETE PAD OVER GRAVEL BASE PER MANUFACTURERS SPECIFICATIONS

REDUCED PRESSURE ZONE BACKFLOW ASSEMBLY (RPZ) NOTES:

1. EQUIPMENT TO BE WATTS SERIES 009/909 OR APPROVED EQUIVALENT
2. ONLY ONE RPZ IS REQUIRED TO SERVE EACH METER ASSEMBLY. INSTALL ENTIRE IRRIGATION SYSTEM (ON/OFF VALVES) DOWNSTREAM OF THE RPZ.
3. RPZ MUST BE INSTALLED A MINIMUM OF 12–INCHES ABOVE GROUND LEVEL.
4. RPZ MUST BE TESTED BY A STATE–CERTIFIED BACKFLOW ASSEMBLY TESTER AT TIME OF INSTALLATION, ANNUALLY, OR WHEN MOVED OR REPAIRED.
4. IN AN RPZ EQUIPPED SYSTEM, FERTILIZER AND OTHER AGRICULTURAL CHEMICALS MAY BE INTRODUCED DOWNSTREAM OF (AFTER) THE RPZ.
5. IRRIGATION SYSTEM TO BE ANTI–SIPHON, ANTI–BACKPRESSURE, MULTI–ZONE

WATER METER AND CROSS CONNECTION DETAIL

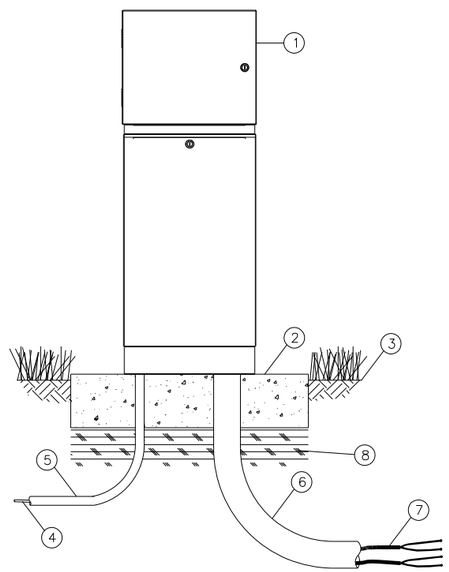
NOT TO SCALE



1. 30–INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION:
3. DECODER
4. REMOTE CONTROL VALVE: PGA
5. VALVE BOX WITH COVER:
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
8. BRICK (1 OF 4)
9. PVC MAINLINE PIPE
10. PVC SCH 40 TEE OR ELL
11. SCH 80 NIPPLE: (2–INCH LENGTH, HIDDEN & SCH 40 ELL)
12. PVC SCH 40 MALE ADAPTER
13. PVC LATERAL PIPE
14. 3.0–INCH MINIMUM DEPTH OF 3/4–INCH WASHED GRAVEL

ELECTRIC REMOTE CONTROL PGA VALVE

NOT TO SCALE

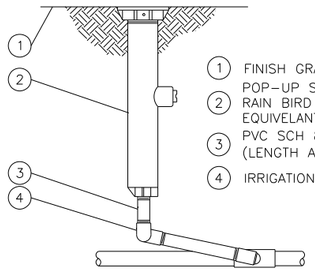


1. TWO–WIRE DECODER CONTROLLER: TWO–WIRE DECODER (RAIN BIRD ESP–LXD OR APPROVED EQUIVALENT) CONTROLLER WITH STAINLESS STEEL METAL CABINET (RAIN BIRD LXMM OR APPROVED EQUIVELANT) AND STAINLESS STEEL METAL PEDESTAL (RAINBIRD LXMMPED OR APPROVED EQUIVALENT). INSTALL CONTROLLER, CABINET AND PEDESTAL PER MANUFACTURER'S RECOMMENDATIONS.
2. CONCRETE PAD: 6–INCH MINIMUM THICKNESS
3. FINISH GRADE
4. POWER SUPPLY WIRE
5. 1–INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR POWER SUPPLY
6. 3–INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR TWO–WIRE CABLE
7. MAXICABLE TWO–WIRE PATH TO DECODERS USE A DIFFERENT CABLE JACKET COLOR FOR EACH PATH.
8. COMPACTED SUBGRADE

NOTES:
1. PROVIDE EXPANSION MODULES TO ALLOW FOR THE MAXIMUM STATION CAPACITY TO ACCOMMODATE EXISTING SYSTEM AND FUTURE EXPANSION.
2. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

TWO–WIRE DECODER CONTROLLER IN STAINLESS STEEL PEDESTAL

NOT TO SCALE

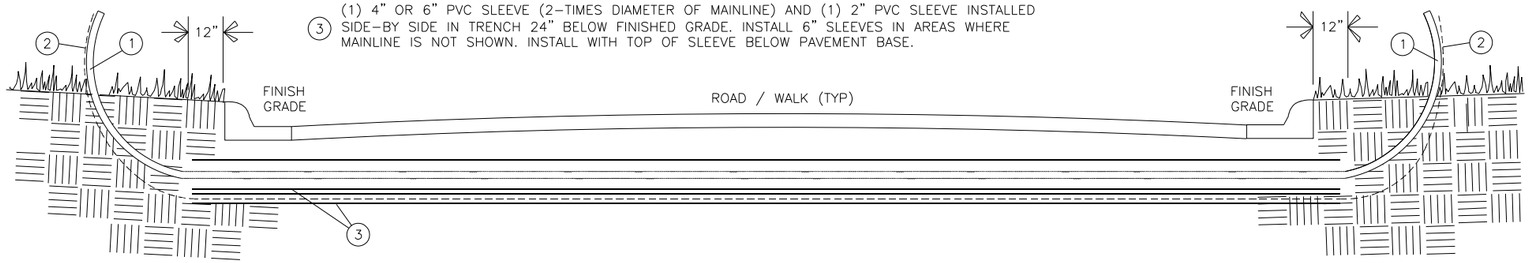


1. FINISH GRADE
2. POP–UP SPRAY SPRINKLER: RAIN BIRD 1806 OR APPROVED EQUIVELANT
3. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
4. IRRIGATION FUNNY PIPE

POP–UP SPRAY SPRINKLER

NOT TO SCALE

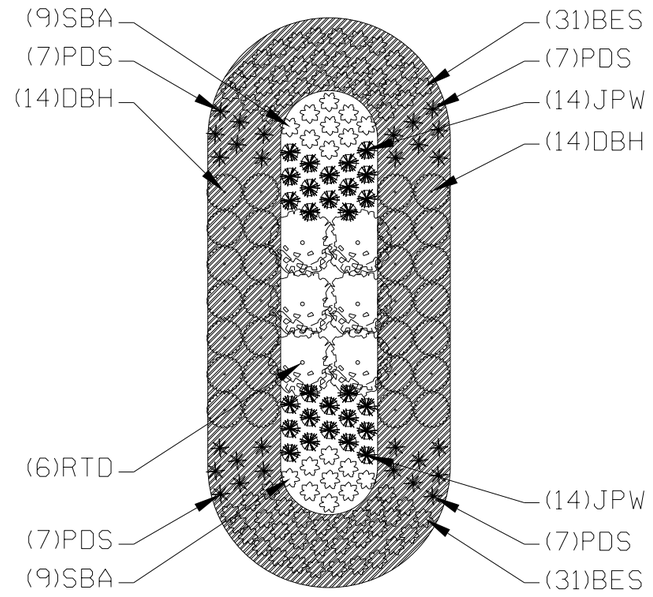
1. 1" POLY PIPE THRU SLEEVE EXTEND 3–FEET ABOVE GRADE
2. PULL WIRE THRU SLEEVE – EXTEND 3–FEET ABOVE GRADE
3. (1) 4" OR 6" PVC SLEEVE (2–TIMES DIAMETER OF MAINLINE) AND (1) 2" PVC SLEEVE INSTALLED SIDE–BY SIDE IN TRENCH 24" BELOW FINISHED GRADE. INSTALL 6" SLEEVES IN AREAS WHERE MAINLINE IS NOT SHOWN. INSTALL WITH TOP OF SLEEVE BELOW PAVEMENT BASE.



SLEEVING DETAIL

NOT TO SCALE

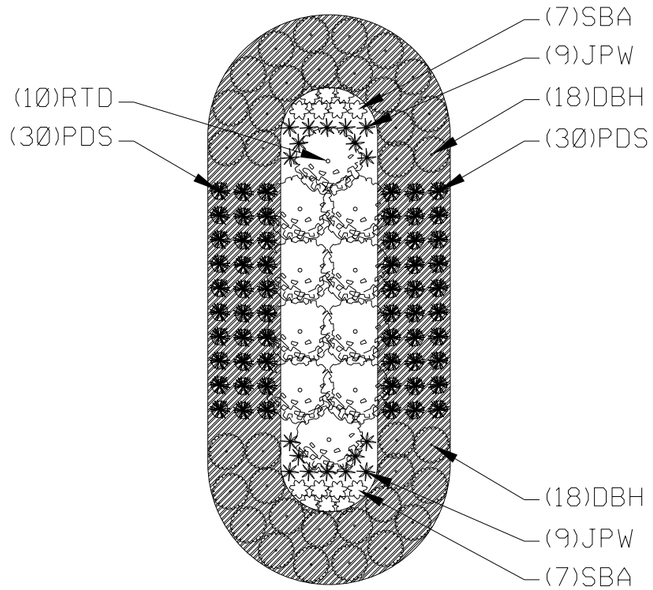
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	SITE DESIGN	SHEET 156	E



BIORETENTION CELL A:
PLANTING DESIGN

Bioretention A - Plant Schedule

	Scientific Name	Common Name	Quantity	Spacing	Install Size	Size
						Maturity in ft. (Height/Spread)
Deciduous Shrubs						
DBH	Diervilla lonicera	Dwarf Bush Honey-suckle	28	Per Plan	#3 cont.	3-4'/4-5'
RTD	Cornus sericea	Redtwig Dogwood	6	Per Plan	#3 cont.	7-9'/8-10'
Perennials						
BES	Rudbeckia fulgida	Black-eyed Susan	48	Per Plan	4.5" plugs	
JPW	Eupatorium maculatum	Spotted Joe-Pye Weed	15	Per Plan	4.5" plugs	
PDS	Sporobulus heterolepsis	Prairie Dropseed Grass	11	Per Plan	4.5" plugs	
SBA	Aster azureus	Sky Blue Aster	12	Per Plan	4.5" plugs	

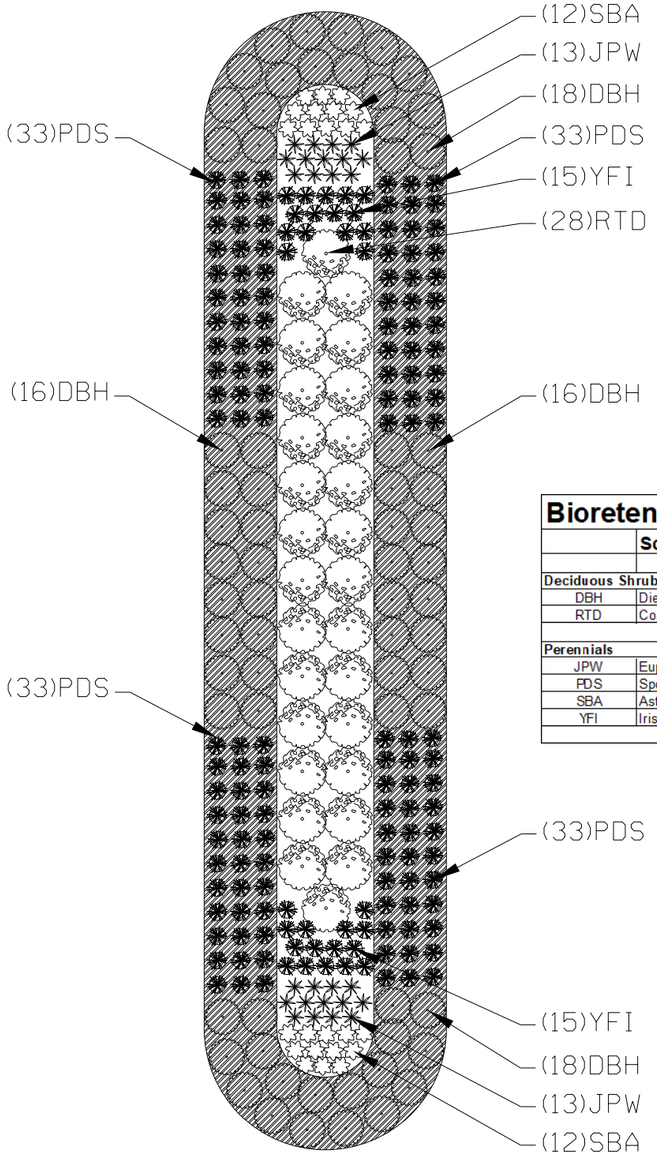


BIORETENTION CELL B:
PLANTING DESIGN

Bioretention B - Plant Schedule

	Scientific Name	Common Name	Quantity	Spacing	Install Size	Size
						Maturity in ft. (Height/Spread)
Deciduous Shrubs						
DBH	Diervilla lonicera	Dwarf Bush Honey-suckle	36	Per Plan	#3 cont.	3-4'/4-5'
RTD	Cornus sericea	Redtwig Dogwood	10	Per Plan	#3 cont.	7-9'/8-10'
Perennials						
JPW	Eupatorium maculatum	Spotted Joe-Pye Weed	18	Per Plan	4.5" plug	
PDS	Sporobulus heterolepsis	Prairie Dropseed Grass	60	Per Plan	4.5" plug	
SBA	Aster azureus	Sky Blue Aster	14	Per Plan	4.5" plug	

2



BIORETENTION CELL C:
PLANTING DESIGN

Bioretention C - Plant Schedule

	Scientific Name	Common Name	Quantity	Spacing	Install Size	Size
						Maturity in ft. (Height/Spread)
Deciduous Shrubs						
DBH	Diervilla lonicera	Dwarf Bush Honey-suckle	68	Per Plan	#3 cont.	3-4'/4-5'
RTD	Cornus sericea	Redtwig Dogwood	28	Per Plan	#3 cont.	7-9'/8-10'
Perennials						
JPW	Eupatorium maculatum	Spotted Joe-Pye Weed	26	Per Plan	4.5" plug	
PDS	Sporobulus heterolepsis	Prairie Dropseed Grass	132	Per Plan	4.5" plug	
SBA	Aster azureus	Sky Blue Aster	24	Per Plan	4.5" plug	
YFI	Iris pseudacorus	Yellow Flag Iris	30	Per Plan	4.5" plug	

2

2

N

R/L BRAUN ROAD WB

64BRW 66BRW 68BRW 70BRW 72BRW 74BRW 76BRW 78BRW

BRAUN ROAD

64BRE 66BRE 68BRE 70BRE 72BRE 74BRE 76BRE 78BRE

MATCHLINE 79BRE+00

SPEED LIMIT 45

REMOVE

R100

R/L BRAUN ROAD EB

LEGEND

EXISTING SIGN MOUNTED ON POST

XXXX DENOTES SIGN NUMBER

PROJECT NO:2704-09-70	HWY:BRAUN ROAD	COUNTY:RACINE	EXISTING SIGNING	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N

R/L BRAUN ROAD WB

SPEED LIMIT 45

REMOVE R101

REMOVE R105

REMOVE R106

80BRW 82BRW 84BRW 86BRW 88BRW 90BRW 92BRW 94B

MATCHLINE 79BRE+00

MATCHLINE 94BRE+00

80BRE 82BRE 84BRE 86BRE 88BRE 90BRE 92BRE 94B

BRAUN ROAD

R/L BRAUN ROAD EB

SPEED LIMIT 45

REMOVE R102

REMOVE R103

REMOVE R104

LEGEND

EXISTING SIGN MOUNTED ON POST

XXXX DENOTES SIGN NUMBER

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EXISTING SIGNING	SHEET	E

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2

2

N

2004N3A

2004N3B

ACCESS N3

2002N3A

2002N3B

R/L N3 NB

R/L N3 SB

R/L BRAUN ROAD WB

R/L BRAUN ROAD EB

MATCHLINE 94BRE+00

MATCHLINE 109BRE+00

BRAUN ROAD

94BRW

96BRW

98BRW

100BRW

102BRW

104BRW

106BRW

108BRW

94BRE

96BRE

98BRE

100BRE

102BRE

104BRE

106BRE

108BRE

GUY

1004FC1A

1004FC1B

ACCESS FC1

1002FC1A

1002FC1B

R/L FC1 NB

R/L FC1 SB

NO SIGN REMOVALS ON THIS PAGE

LEGEND

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WISDOT/CADDS SHEET 42

2

2

N

STOP
REMOVE
R107

R/L BRAUN ROAD WB

SPEED LIMIT 45
REMOVE
R108

SPEED LIMIT 45
REMOVE
R109

R/L BRAUN ROAD EB

MATCHLINE 109BRE+00

110BRW 112BRW 114BRW 116BRW 118BRW 120BRW 122BRW 124

BRAUN ROAD

110BRE 112BRE 114BRE 116BRE 118BRE 120BRE 122BRE 124

MATCHLINE 124BRE+00

GUY GUY GUY

4002N4A 4002N4B

3006FC2A 3006FC2B

3004FC2A 3004FC2B

3002FC2A 3002FC2B

LEGEND

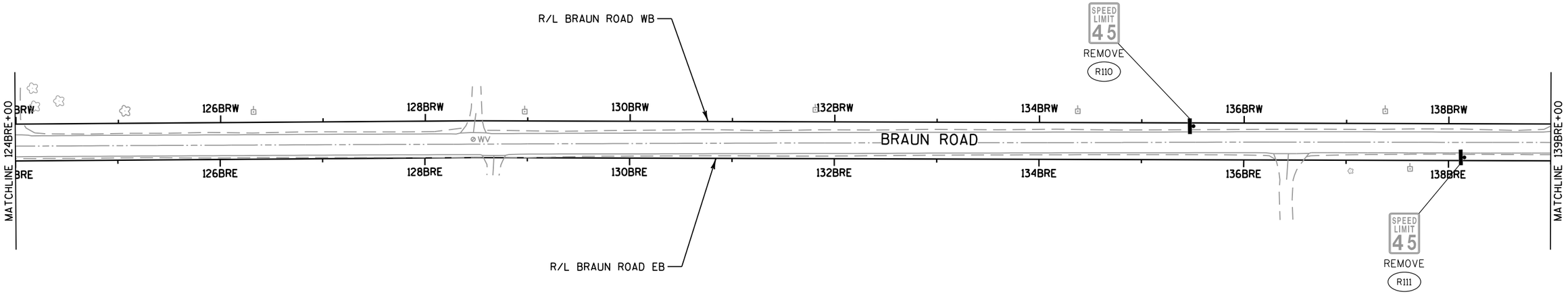
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2

N



LEGEND

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PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EXISTING SIGNING	SHEET	E

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2

2

N

ACCESS N5

6004N5A

6004N5B

6002N5A

6002N5B

R/L N5 NB

R/L N5 SB

R/L BRAUN ROAD WB

BRAUN ROAD

MATCHLINE 139BRE+00

140BRW

142BRW

144BRW

146BRW

148BRW

150BRW

152BRW

GUY

GUY

154

MATCHLINE 154BRE+00

140BRE

142BRE

144BRE

146BRE

148BRE

150BRE

152BRE

154

MH

5004FC3A

5004FC3B

ACCESS FC3

R/L FC3 NB

R/L FC3 SB

5002FC3A

5002FC3B

R/L BRAUN ROAD EB

REMOVE

R112

LEGEND

EXISTING SIGN MOUNTED ON POST

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PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EXISTING SIGNING	SHEET	E

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WISDOT/CADDS SHEET 42

2

2

N

DELETED

MATCHLINE 154BRE+00

154BRW 156BRW 158BRW 160BRW 162BRW 164BRW 166BRW 168BRW

154BRE 156BRE 158BRE 160BRE 162BRE 164BRE 166BRE 168BRE

R/L BRAUN ROAD WB

R/L BRAUN ROAD WB

BRAUN RD.

POST

POST

TILE

GUY

MH

AG

STOP M113 MOVE

TRUCK NO TURN ON RED M114 M115 MOVE

LEGEND

EXISTING SIGN MOUNTED ON POST

XXXX DENOTES SIGN NUMBER

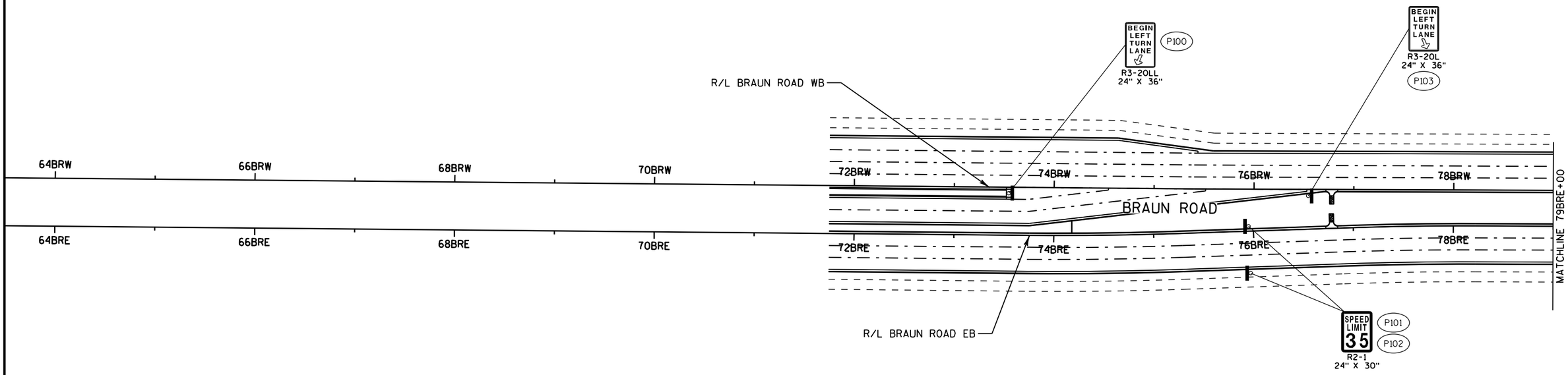
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WISDOT/CADDS SHEET 42

2

N



LEGEND

PROPOSED SIGN MOUNTED ON POST

(PXXX) PROPOSED SIGN NUMBER

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PERMANENT SIGNING	SHEET 167	E

2

N

KILBOURN ROAD DITCH

SPEED LIMIT 35 R2-1 24" X 30" P104 P105

R/L BRAUN ROAD WB

B-51-160

MATCHLINE 79BRE+00

80BRW 82BRW 84BRW 86BRW 88BRW 90BRW 92BRW 94B

BRAUN ROAD

80BRE 82BRE 84BRE 86BRE 88BRE 90BRE 92BRE 94B

MATCHLINE 94BRE+00

R/L BRAUN ROAD EB

SPEED LIMIT 35 R2-1 24" X 30" P107 P106

LEGEND

PROPOSED SIGN MOUNTED ON POST

PXXX PROPOSED SIGN NUMBER

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PERMANENT SIGNING	SHEET 168	E

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2

N

P110 ONE WAY R6-2L 24" X 30"

P109 P108 SPEED LIMIT 35 R2-1 24" X 30"

P111 DO NOT ENTER R5-1 30" X 30"

P112 BEGIN LEFT TURN LANE R3-20LL 24" X 36"

R/L BRAUN ROAD WB

96BRW 98BRW 100BRW 102BRW 104BRW 106BRW 108BRW

BRAUN ROAD

96BRE 98BRE 100BRE 102BRE 104BRE 106BRE 108BRE

MATCHLINE 94BRE+00

MATCHLINE 109BRE+00

1004FC1A

1004FC1B

1002FC1B ACCESS FC1

1002FC1A

P121 R4-7 24" X 30"

P122 BEGIN LEFT TURN LANE R3-20L 24" X 36"

P123 P124 SPEED LIMIT 35 R2-1 24" X 30"

P115 STOP R1-1 36" X 36"

P114 W12-1-D 24" X 24" 2' MOUNTING HEIGHT

P116 R4-7 24" X 30"

P113 DO NOT ENTER R5-1 30" X 30"

R/L BRAUN ROAD EB

P117 ONE WAY R1-1R 36" X 12"

P118 STOP R1-1 36" X 36"

P119 DIVIDED HIGHWAY R6-3 30" X 24"

P120 YIELD R1-2 36" X 31"

R/L FC1 SB

R/L FC1 NB

CONSTRUCTED BY OTHERS

LEGEND

PROPOSED SIGN MOUNTED ON POST

PXXX PROPOSED SIGN NUMBER

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PERMANENT SIGNING	SHEET 169	E

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WISDOT/CADDS SHEET 42

2

2

N

CONSTRUCTED BY OTHERS

R/L N4 NB

R/L N4 SB

ACCESS N4

4002N4A

4002N4B

P132 MOUNTED ON SIGNAL POLE — STOP R1-1-F 36" X 36"

P133 MOUNTED ON SIGNAL POLE — R4-7 24" X 30"

P134 MOUNTED ON SIGNAL POLE — STOP R1-1-F 36" X 36"

P135 MOUNTED ON SIGNAL POLE — DO NOT ENTER R5-1 30" X 30"

P136 ONE WAY R6-1 36" X 12" MOUNTED ON SIGNAL POLE

P137 STOP R1-1-F 36" X 36" MOUNTED ON SIGNAL POLE

P138 STOP R1-1 36" X 36"

P139 W12-1-D 24" X 24" 2' MOUNTING HEIGHT

P130 ONE WAY R1-1L 36" X 12" MOUNTED ON SIGNAL POLE

P131 YIELD R1-2 36" X 31"

P129 MOUNTED ON SIGNAL POLE — R4-7 24" X 30"

P127 P128 MOUNTED ON SIGNAL POLE — STOP R1-1-F 36" X 36"

P125 P126 SPEED LIMIT 35 R2-1 24" X 30"

R/L BRAUN ROAD WB

MATCHLINE 109BRE+00

110BRW 112BRW 114BRW 116BRW 118BRW 120BRW 122BRW 124

BRAUN ROAD

110BRE 112BRE 114BRE 116BRE 118BRE 120BRE 122BRE 124

MATCHLINE 124BRE+00

R/L BRAUN ROAD EB

P140 P141 NEW TRAFFIC PATTERN AHEAD W23-2 36" X 36"

P142 P143 W3-3 36" X 36"

P144 BEGIN LEFT TURN LANE R3-20L 24" X 36"

P145 BEGIN LEFT TURN LANE R3-20LL 24" X 36"

P146 P147 MOUNTED ON SIGNAL POLE — DO NOT ENTER R5-1 30" X 30"

P148 W12-1-D 24" X 24" 2' MOUNTING HEIGHT

P149 STOP R1-1 36" X 36"

P150 MOUNTED ON SIGNAL POLE — STOP R1-1-F 36" X 36"

P151 MOUNTED ON SIGNAL POLE — ONE WAY R6-1 36" X 12"

P152 MOUNTED ON SIGNAL POLE — R4-7 24" X 30"

P153 MOUNTED ON SIGNAL POLE — STOP R1-1-F 36" X 36"

P154 MOUNTED ON SIGNAL POLE — DO NOT ENTER R5-1 30" X 30"

P155 P156 STOP R1-1-F 36" X 36" MOUNTED ON SIGNAL POLE

P157 R4-7 24" X 30" MOUNTED ON SIGNAL POLE

P158 YIELD R1-2 36" X 31"

P159 ONE WAY R6-1 36" X 12" MOUNTED ON SIGNAL POLE

P160 STOP R1-1-F 36" X 36" MOUNTED ON SIGNAL POLE

3004FC2A 3004FC2B

ACCESS FC2

3002FC2A 3002FC2B

CONSTRUCTED BY OTHERS

R/L FC2 SB

R/L FC2 NB

LEGEND

PROPOSED SIGN MOUNTED ON POST

(PXXX) PROPOSED SIGN NUMBER

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PERMANENT SIGNING	SHEET 170	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040[illegible] PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

N

BEGIN LEFT TURN LANE
P161
R3-20LL
24" X 36"

BEGIN LEFT TURN LANE
R3-20L
24" X 36"
P162

P163
P164
W3-3
36" X 36"

NEW TRAFFIC PATTERN AHEAD
P165
P166
W23-2
36" X 36"

R/L BRAUN ROAD WB

P167
P168
SPEED LIMIT 35
R2-1
24" X 30"

MATCHLINE 124BRE+00

126BRW 128BRW 130BRW 132BRW 134BRW 136BRW 138BRW

BRAUN ROAD

126BRE 128BRE 130BRE 132BRE 134BRE 136BRE 138BRE

MATCHLINE 139BRE+00

R/L BRAUN ROAD EB

SPEED LIMIT 35
P169
P170
R2-1
24" X 30"

LEGEND

PROPOSED SIGN MOUNTED ON POST

PXXX PROPOSED SIGN NUMBER

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PERMANENT SIGNING	SHEET 171	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704PLOT DATE : 10/28/2021 1:58:55 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N

P171 DO NOT ENTER R5-1 30" X 30"

P172 ONE WAY R6-2L 24" X 30"

P173 DO NOT ENTER R5-1 30" X 30"

P174 BEGIN LEFT TURN LANE R3-20LL 24" X 36"

R/L BRAUN ROAD WB

MATCHLINE 139BRE+00

140BRW 142BRW 144BRW 146BRW 148BRW 150BRW 152BRW 154BRW

BRAUN ROAD

140BRE 142BRE 144BRE 146BRE 148BRE 150BRE 152BRE 154BRE

5004FC3A

5004FC3B

5002FC3A

5002FC3B ACCESS FC3

P175 W12-1-D 24" X 24" 2' MOUNTING HEIGHT

P176 STOP R1-1 36" X 36"

P177 R4-7 24" X 30"

R/L FC3 SB

R/L FC3 NB

CONSTRUCTED BY OTHERS

P178 ONE WAY R1-1R 36" X 12"

P179 STOP R1-1 36" X 36"

P180 DIVIDED HIGHWAY R6-3 30" X 24"

P181 R4-7 24" X 30"

P182 YIELD R1-2 36" X 31"

P183 BEGIN LEFT TURN LANE R3-20L 24" X 36"

P184 P185 SPEED LIMIT 35 R2-1 24" X 30"

R/L BRAUN ROAD EB

LEGEND

PROPOSED SIGN MOUNTED ON POST

PXXX PROPOSED SIGN NUMBER

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PERMANENT SIGNING	SHEET 172	E

2

N

154BRE+00

MATCHLINE

154BRW 156BRW 158BRW 160BRW 162BRW 164BRW 166BRW 168BRW

154BRE 156BRE 158BRE 160BRE 162BRE 164BRE 166BRE 168BRE

DELETED

STOP M113

MOVE

TRUCK M114

NO TURN ON RED M115

MOVE

LEGEND

PROPOSED SIGN MOUNTED ON POST

PXXX PROPOSED SIGN NUMBER

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PERMANENT SIGNING	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD4.dgn PLOT DATE : 14 JUN 2023 7:24:37 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

GENERAL NOTES

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

THE CONTRACTOR IS RESPONSIBLE FOR NOT BACKFEEDING CIRCUITS PRIOR TO DISCONNECTING ANY BRANCH CIRCUITS FROM OLD SOURCE.

LOCATIONS OF THE PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED.

ALL CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION. THE TRENCH SHALL NOT BE BACK FILLED PRIOR TO INSPECTION OF THE CONDUIT.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION 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 ALL CONDUITS.

PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX OR JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.

PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.

CONTRACTOR SHALL SUPPLY AS-BUILT DRAWING FOR ALL THE WORK BEING DONE.

INSTALLATION OF LATERAL UNDERGROUND CONDUIT UNDER PAVEMENT SHALL BE INSTALLED MINIMUM 30 INCHES BELOW PROPOSED GRADE AND A MINIMUM OF 3 INCHES BELOW ALL PAVEMENT BASE MATERIALS. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ROADWAY CONSTRUCTION FOR CONDUIT LATERALS INSTALLATION.

PITCH ALL CONDUITS TOWARD PULL BOXES. INSTALL A 2" DRAIN DUCT TO STORM SEWER OR DRAIN SUMP AS REQUIRED FOR DRAINAGE. THE 2" DRAIN DUCT OR SUMP IS INCIDENTAL TO THE PULL BOX BID ITEM AND IS NOT SHOWN.

THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

HAND DIGGING MAY BE REQUIRED FOR LOCATIONS ADJACENT TO EXISTING GAS AND POWER LINES. HAND EXCAVATION SHOULD BE ANTICIPATED & WILL BE CONSIDERED INCIDENTAL TO THE CONCRETE BASES BID ITEM. COORDINATE ALL WORK NEAR GAS LINE WITH WE ENERGIES.

EXISTING CONDUIT AND CID NO LONGER BEING USED IS ABANDONED IN PLACE. THE CONTRACTOR MAY REMOVE ABANDONED WIRING AT THE CONTRACTOR'S EXPENSE. ABANDONED PULL BOX REMOVAL IS INCIDENTAL TO THE ROAD CONSTRUCTION.

IF CID CONTAINS PHASE CONDUCTOR(S) THAT WILL NOT BE USED FOR SUBSEQUENT POLES, I.E. AT THE END OF A CIRCUIT, DO NOT ENERGIZE THE RESPECTIVE CONDUCTOR(S) PAST THE LAST POLE THE PHASE WAS UTILIZED. REMOVE UNUSED CONDUCTOR(S) EXPOSED BEYOND THE CID RACEWAY IN ALL SUBSEQUENT POLES.

SEAL THE ENDS OF ALL CID RACEWAY WITH A UL RECOGNIZED FOAM CONDUIT SEALANT. PROVIDE A 1/2" NYLON ROPE EXTENDING BEYOND THE PLUG TO ASSIST IN REMOVING THE PLUG IN THE FUTURE.

SEE DETAIL "CONDUIT DETAILS AT STRUCTURE PARAPET TO ROADWAY BARRIER INTERFACE" WHEN CONDUIT EXITS TO GRADE FROM A BRIDGE PARAPET OR RETAINING WALL. RIGID METALLIC CONDUIT IN THE CONCRETE BARRIER IS INCIDENTAL TO THE RIGID NONMETALLIC CONDUIT.

PROVIDE MINIMUM CABLE SLACK AS NOTED BELOW:

PULL BOXES:	10-FT	LIGHTING CONTROL CENTERS:	10-FT
EMBEDDED JUNCTION BOXES:	3-FT	POLES:	5-FT IN AND 5-FT OUT

SIGN STRUCTURES WHICH HAVE A BASE THAT EXTENDS THE COMPLETE WIDTH OF THE MEDIAN TYPICALLY HAVE A 4" SLEEVE FOR LIGHTING.

WIRE AND CONDUIT IS LISTED IN THE MISCELLANEOUS QUANTITIES BASED UPON THE EARLIEST STAGE SHOWN. CONTRACTOR MAY INSTALL LATER WHEN LOAD NEEDS TO BE ENERGIZED.

LEGEND - FINAL LIGHTING

·—·—	CID (CABLE IN DUCT)		ELECTRIC METER SOCKET
– – – –	CABLE IN CONDUIT - 2" UNLESS NOTED OTHERWISE	SM	DENOTES STRUCTURE MOUNTED
⊠	LIGHTING CONTROL CABINET	C	CONDUIT
◐	PULL BOX 24" x 36"	⌐—	STUBOUT
⊗	PULL BOX 24" x 42"	◉	CONCRETE POLE BASE, TYPE 5, WITH TRANSFORMER BASE

NOTES

NO POLES, ARMS, LUMINAIRES, LIGHTING CONTROL CABINETS, NOR WIRING ARE PROVIDED UNDER THIS CONTRACT.

CONCRETE BASES FOR FUTURE POLES AND LIGHTING CONTROL CABINETS WITH ASSOCIATED CONDUITS (PULL ROPE ONLY) ARE PROVIDED HEREIN.

2

2

N

SEE CONTRACT
2704-00-76
FOR LIGHTING

CAP CONDUIT

STA. 76BRE+46.05, 20.80'LT
BASE BW-9

STA. 84BRE+84.28, 18.73'LT
BASE BW-13

70BRW OH 72BRW OH 74BRW OH 76BRW OH 78BRW OH 80BRW OH 82BRW OH 84BRW OH GUY

70BRE 72BRE 74BRE 76BRE 78BRE 80BRE 82BRE 84BRE OH GUY

STA. 72BRE+25.24, 6.07'LT
BASE BW-7

STA. 74BRE+35.83, 9.95'LT
BASE BW-8

STA. 78BRE+55.30, 20.15'LT
BASE BW-10

STA. 80BRE+65.23, 20.33'LT
BASE BW-11

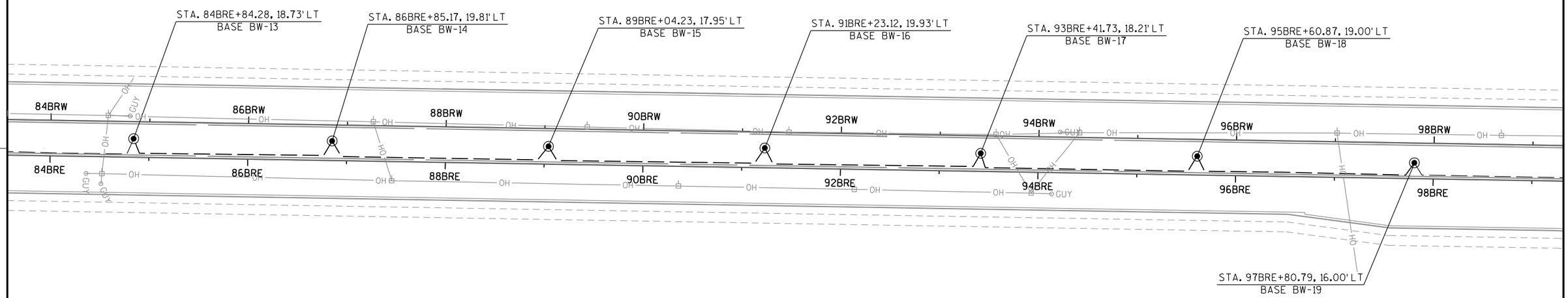
STA. 82BRE+75.22, 19.30'LT
BASE BW-12

NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE HO NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	LIGHTING PLAN	SHEET 175	E

2

N



NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE HO NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	LIGHTING PLAN	SHEET 176	E

2

2

N

STA. 97BRE+80.79, 16.00' LT
BASE BW-19

STA. 99BRE+90.76, 19.51' LT
BASE BW-20

STA. 101BRE+07.67, 30.36' LT
BASE BW-22

STA. 107BRE+93.78, 17.94' LT
BASE BW-25

STA. 110BRE+24.07, 18.10' LT
BASE BW-26

STA. 112BRE+51.19, 17.79' LT
BASE BW-27

98BRW
100BRW
102BRW
104BRW
106BRW
108BRW
110BRW
112BRW

3" C

98BRE
100BRE
102BRE
104BRE
106BRE
108BRE
110BRE
112BRE

1004FC1A
1004FC1B
1002FC1A
1002FC1B

STA. 101BRE+68.12, 6.95' LT
PULLBOX PB-BW9

STA. 103BRE+37.20, 9.70' LT
BASE BW-23

STA. 105BRE+66.96, 17.81' LT
BASE BW-24

STA. 100BRE+87.42, 61.07' RT
BASE BW-21

NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE HO NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	LIGHTING PLAN	SHEET 177	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\Braun\Plansets\Braun_Phase1\023504_LP.dgn PLOT DATE : 8/29/2018 PLOT BY : jkoopmann PLOT NAME : PLOT SCALE : 1:100

2

2

N

4004N4A

4004N4B

4002N4A

4002N4B

STA. 117BRE+09.35, 18.00'LT
BASE BW-29

STA. 119BRE+39.52, 30.00'LT
BASE BW-30

STA. 124BRE+43.21, 6.00'LT
BASE BH-15

112BRW

114BRW

116BRW

118BRW

120BRW

122BRW

124BRW

126BRW

112BRE

114BRE

116BRE

118BRE

120BRE

122BRE

124BRE

126BRE

GUY

3006FC2A

3006FC2B

3004FC2A

3004FC2B

2FC2A

2FC2B

STA. 112BRE+51.19, 17.79'LT
BASE BW-27

STA. 114BRE+79.25, 18.24'LT
BASE BW-28

STA. 126BRE+63.77, 18.00'LT
BASE BH-14

SEE TRAFFIC SIGNALS
DRAWING FOR LIGHTING
IN THIS AREA.

NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE HO NON METALLIC
UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	LIGHTING PLAN	SHEET 178	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\Braun\Plansets\Braun_Phase1\023505_LP.dgn PLOT DATE : 8/29/2018 PLOT BY : jkoopmann PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

N

STA. 126BRE+63.77, 18.00'LT
BASE BH-14

STA. 128BRE+83.98, 18.72'LT
BASE BH-13

STA. 131BRE+02.41, 18.72'LT
BASE BH-12

STA. 133BRE+23.11, 19.56'LT
BASE BH-11

STA. 135BRE+43.45, 18.66'LT
BASE BH-10

STA. 137BRE+62.59, 17.62'LT
BASE BH-9

STA. 139BRE+72.35, 18.60'LT
BASE BH-8

126BRW OH 128BRW OH 130BRW OH 132BRW OH 134BRW OH 136BRW OH 138BRW OH 140BRW OH

126BRE 128BRE 130BRE 132BRE 134BRE 136BRE 138BRE 140BRE

NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE HO NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	LIGHTING PLAN	SHEET 179	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\Braun\Plansets\Braun_Phase1\023506_LP.dgn PLOT DATE : 8/29/2018 PLOT BY : jkoopmann PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

N

SEE CONTRACT
3700-00-70
FOR LIGHTING

STA. 139BRE+72.35, 18.60'LT
BASE BH-8

STA. 143BRE+38.08, 30.02'LT
BASE BH-5

STA. 145BRE+62.02, 10.68'LT
BASE BH-4

STA. 147BRE+79.03, 16.87'LT
BASE BH-3

CAP CONDUIT

140BRW — OH — OH — 142BRW — 3" C — OH — 144BRW — 3" C — OH — 146BRW — OH — OH — 148BRW — OH — OH — 150BRW — OH — OH — 152BRW — OH — GUY — GUY — 154BRW

140BRE

142BRE

144BRE

146BRE

148BRE

150BRE

152BRE

154BRE

3" C

5004FC3A

5004FC3B

5002FC3A

5002FC3B

STA. 144BRE+72.31, 30.36'LT
PULL BOX PB-BH4

STA. 143BRE+40.60, 48.29'RT
PULLBOX PB-BH5

STA. 141BRE+94.35, 16.43'LT
BASE BH-7

STA. 142BRE+76.49, 61.06'RT
BASE BH-6

NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE HO NON METALLIC
UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	LIGHTING PLAN	SHEET 180	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\Braun\Plansets\Braun_Phase1\023507_LP.dgn PLOT DATE : 8/29/2018 PLOT BY : jkoopmann PLOT NAME : PLOT SCALE : 1:100

2

2

N

IH 41/IH 94

BRAUN ROAD

FOXCONN DRIVEWAY

FOXCONN DRIVEWAY

FOXCONN DRIVEWAY

CTH H

CTH H

U51-1459

S51-1460

1

S51-1469

1

T51-1452

1

LEGEND

TRAFFIC SIGNAL

XXX-XXXX

1 INSTALL TRAFFIC SIGNAL

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC SIGNAL PROJECT OVERVIEW	SHEET 181	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun\t15_cts_224801_08.56.dgn PLOT BY : jmatson PLOT NAME : PLOT SCALE : 750:1

WISDOT/CADDS SHEET 42

LEGEND

NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE

(XX) MONOTUBE BASE, POLE, 35'-55' ARM

LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE

LOOP DETECTOR CONDUIT 1" NONMETALLIC

LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

RADAR DETECTION AREA

PULL BOX, 24" X 36"

PULL BOX, 24" X 42"

PEDESTRIAN HEAD WITH PUSH BUTTON

PUSH BUTTON

STOP SIGN

YIELD SIGN

RADAR DETECTOR

LEGEND (CON'T)

EVP DESIGNATOR

EVP DETECTOR HEAD

CONFIRMATION LIGHT

CONTROL CABINET

TRAFFIC SIGNAL HEAD

SIGNAL HEAD NUMBER

WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)

RED CIRCULAR INDICATOR

YELLOW CIRCULAR INDICATOR

GREEN CIRCULAR INDICATOR

RED ARROW

YELLOW ARROW

GREEN ARROW

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

N

BRAUN ROAD

FOXCONN DRIVEWAY

ROADWAY CONSTRUCTION BY OTHERS

SPEED LIMIT=25 MPH

SPEED LIMIT=35 MPH

R/W

3-6'X6' 5 TURNS EACH

2-6'X20' 3 TURNS EACH

3-6'X6' 3 TURNS EACH

600' TO END OF DETECTION ZONE FROM RADAR UNIT

2-2" HDPE

3005FC2A

3005FC2B

3006FC2A

3006FC2B

400IN4A

400IN4B

ONLY

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE REGIONAL ELECTRICAL FIELD UNIT AT (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. ALL LUMINAIRES ARE LED CATEGORY C UNLESS OTHERWISE NOTED.
5. INSTALL CABINET BASE 6" ABOVE FINAL ROADWAY ELEVATION.
6. PROPOSED STORM SEWER, LIGHTING, DETECTABLE WARNING FIELDS AND COMMUNICATION ARE SHOWN GRAYSHADED FOR PLAN CLARITY.

STRUCTURE NUMBERS

SB2 = S-51-1254
SB5 = S-51-1255
SB9 = S-51-1256
SB13 = S-51-1257

EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.
2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.
3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH PROPOSED SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.

WISCONSIN JASON P. MATSON 3711 WAUKESHA WI PROFESSIONAL ENGINEER

06/26/2018

TRAFFIC CONTROL SIGNAL
BRAUN ROAD & FOXCONN DRIVEWAY
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

CABINET TYPE: TS2-S
SIGNAL NO. S51-1469 CONTROLLER TYPE: ECONOLITE

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 8/29/18 Joyce Murphy REGION TRAFFIC ENGINEER

APPROVED
Date 8/30/18 Jerry R. Ken STATE TRAFFIC ENGINEER

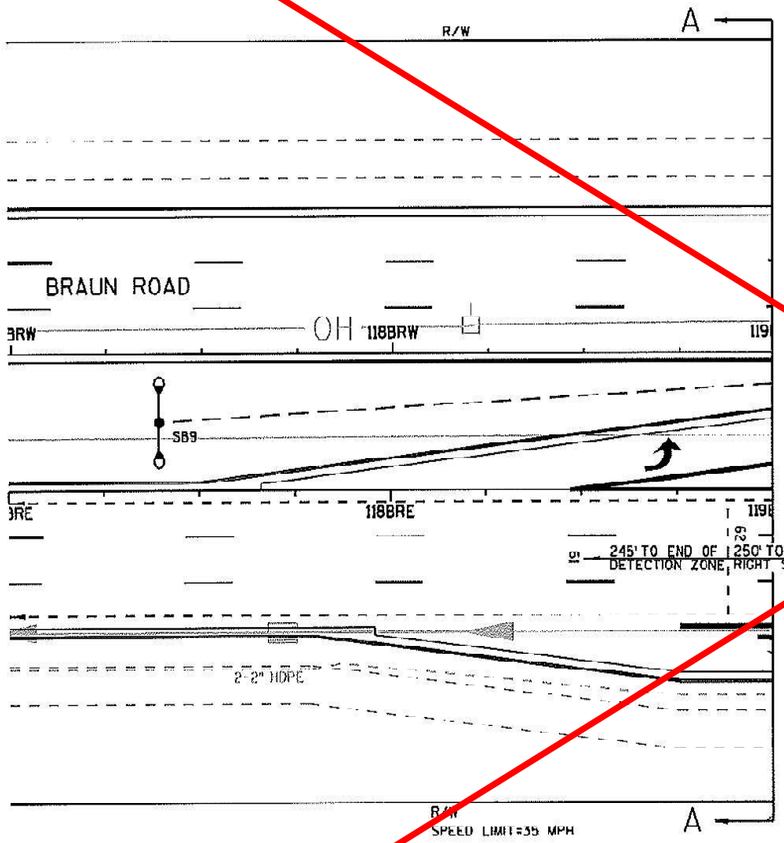
REGION CONTACT: MATTHEW COWAP
DESIGNED BY: HNTB
REVISED BY:

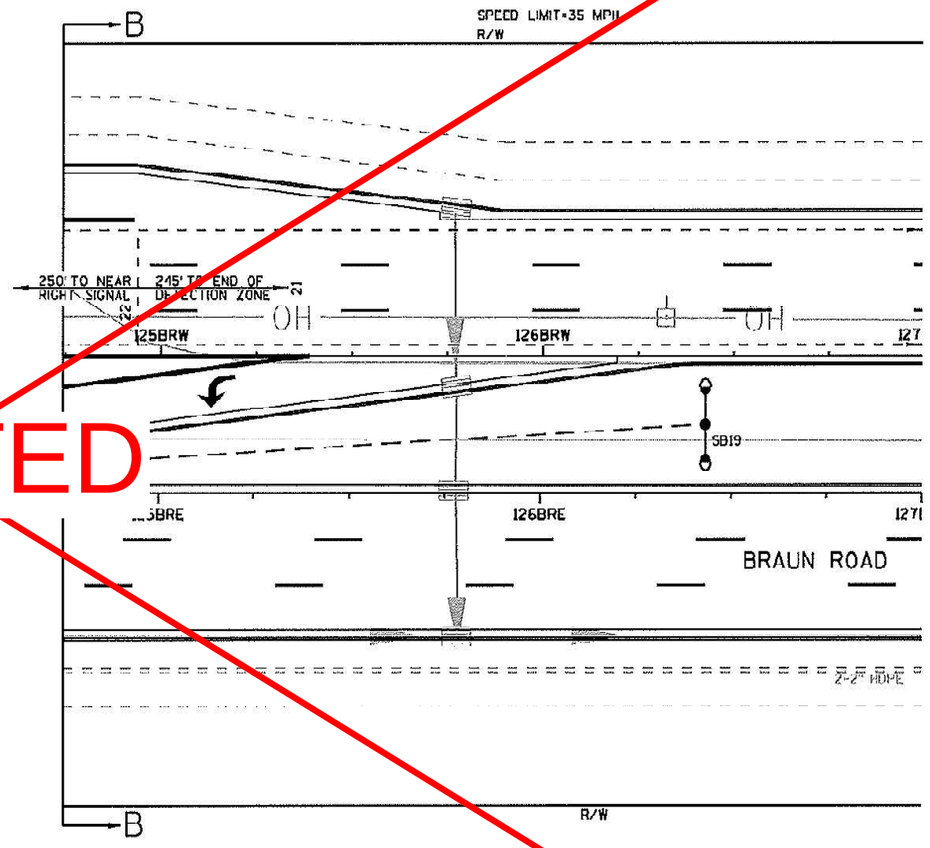
PAGE 1 OF 2

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 182	E

8-29-18 mlw

2





DELETED

TRAFFIC CONTROL SIGNAL
BRAUN ROAD & FOXCONN DRIVEWAY
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

1

SIGNAL NO. S51-1469

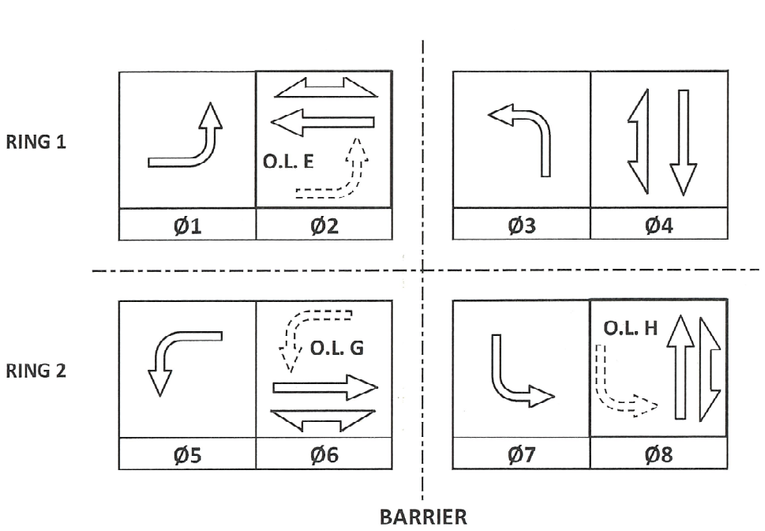
RECION CONTACT: MATTHEW COWAP
DESIGNED BY: HNTB
REVISED BY:

PAGE 2 OF 3

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 183	E

FILE NAME : pw:\\pw-lat.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TD0606.dgn PLOT BY : jmatson PLOT NAME : PLOT SCALE : 40.0022:1

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R ←
Ø2	8,9,10,11	R
Ø3	18,19,20	R ←
Ø4	21,22,23	R
Ø5	12,13,14	R ←
Ø6	1,2,3,4	R
Ø7	24,25,26	R ←
Ø8	15,16,17	R
Ø2P	29,30	
Ø4P	27,28	
Ø6P	33,34	
Ø8P	31,32	
OLE	5,6,7	-
OLF		
OLG	12,13,14	-
OLH	24,25,26	-



N

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.

AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	X
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	51	S1	S3	S6			
CALLED PHASE	1	5						
CALL OPTION	X	X						
DELAY TIME								
EXTENTION OPTION	X	X						
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE	2	6						

19	17	23	21	27	25	31	29	DETECTOR INPUT
21	32	61	81	S8				PLAN LOOP DETECTOR*(S)
2	3	6	8					CALLED PHASE
X	X	X	X					CALL OPTION
								DELAY TIME
X	X	X	X					EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
			8					CROSS SWITCH PHASE

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	52	S2	S5	S7			
CALLED PHASE	1	5						
CALL OPTION	X	X						
DELAY TIME								
EXTENTION OPTION	X	X						
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE	2	6						

20	18	24	22	28	26	32	30	DETECTOR INPUT
31	41	71	S4					PLAN LOOP DETECTOR*(S)
3	4	7						CALLED PHASE
X	X	X						CALL OPTION
								DELAY TIME
X	X	X						EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
		8						CROSS SWITCH PHASE

MSH 8-29-18 JMM 9/29/18

BRAUN ROAD & FOXCONN DRIVEWAY
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY
SIGNAL NO: 551-1469 CABINET TYPE: TS2-S
CONTROLLER TYPE: ECONOLITE
DATE: 08/2018 PAGE NO. 2 OF 2

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	SEQUENCE OF OPERATIONS	SHEET NO: 184	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

BRAUN ROAD & FOXCONN DRIVEWAY

2

PROJECT ID:	2704-09-70
INTERSECTION:	BRAUN ROAD & FOXCONN DRIVEWAY

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	NO. OF CONDUCTORS	HEAD NO.	RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	PED BUTTON	OTHER
SB1	12	15	RED	ORG	GRN								
		25				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		33								BLK	BLU		
		B										WHT/BLK	
SB2	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
		32								BLK	BLU		
		B										WHT/BLK	
SB3	7	18				RED	ORG	GRN					
SB4	12	1	RED	ORG	GRN								
		13				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		27								BLK	BLU		
		B										WHT/BLK	
SB5	12	22	RED	ORG	GRN								
		23	RED	ORG	GRN								
		26				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT				
		34								BLK	BLU		
		B										WHT/BLK	
SB6	7	14				RED	ORG	GRN	BLK				
		B										WHT/BLK	
SB7	7	5				RED	ORG	GRN	BLK				
SB8	12	21	RED	ORG	GRN								
		29								BLK	BLU		
		B										WHT/BLK	
SB9	12	9	RED	ORG	GRN								
		10	RED	ORG	GRN								
		11	RED	ORG	GRN								
		28								BLK	BLU		
		B										WHT/BLK	
SB10	7	B										WHT/BLK	
SB11	7	24				RED	ORG	GRN	BLK				
SB12	12	6				RED	ORG	GRN	BLK/WHT				
		8	RED/BLK	ORG/BLK	GRN/BLK								
		31								BLK	BLU		
		B										WHT/BLK	
SB13	12	16	RED	ORG	GRN								
		17	RED	ORG	GRN								
		19				RED/BLK	ORG/BLK	GRN/BLK					
		20				RED/BLK	ORG/BLK	GRN/BLK					
		30								BLK	BLU		
		B										WHT/BLK	
SB14	7	7				RED	ORG	GRN	BLK				
		B										WHT/BLK	
SB15	7	12				RED	ORG	GRN	BLK				

NOTES: USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

(CONTINUED ON NEXT SHEET)

WISCONSIN JASON P. MATSEN 3711 WAUKESHA WI PROFESSIONAL ENGINEER

08/28/2018

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CABLE ROUTING	SHEET: 185 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900-Braun\t1\cds\024020_sp_cr.ppt
PLOT DATE : 8/28/2018 9:59:49 AM PLOT BY : HNTB PLOT NAME : 024020_sp_cr<#> PLOT SCALE : 1:1

(CONTINUED)

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB15
SB15	CB1

LIGHTING UF 10 AWG W/ GROUND	
FROM	TO
CB1	SB3
SB3	SB6
CB1	SB14
SB14	SB11

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	CB1
PB2	CB1
PB3	SB2
PB4	SB3
PB5	SB5
PB6	SB5
PB7	SB5
PB8	SB6
PB9	SB6
PB10	SB7
PB11	SB7
PB13	SB9
PB14	SB9
PB15	SB10
PB16	SB11
PB17	SB13
PB18	SB13
PB19	SB13
PB20	SB14
PB21	SB14
PB22	SB15
PB23	CB1
PB25	CB1

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB2 (HEAD B)
CB1	SB5 (HEAD C)
CB1	SB9 (HEAD A)
CB1	SB13 (HEAD D)

CONFIRMATION BEACON CABLE TRAFFIC SIGNAL 3-14 AWG	
FROM	TO
CB1	SB2 (HEAD B)
CB1	SB5 (HEAD C)
CB1	SB9 (HEAD A)
CB1	SB13 (HEAD D)

RADAR DETECTION CABLE	
FROM	TO
CB1	SB2 (RA2)
CB1	SB5 (RM2)
CB1	SB9 (RA1)
CB1	SB13 (RM1)

2

2

N

IH 41/IH 94

BRAUN ROAD

FOXCONN DRIVEWAY

FOXCONN DRIVEWAY

FOXCONN DRIVEWAY

CTH H

CTH H

U51-1459

S51-1460

S51-1469

T51-1452

LEGEND

TRAFFIC SIGNAL

xxx-xxxx

1 INSTALL ETHERNET SWITCH IN TRAFFIC SIGNAL CABINET

2 COMMUNICATION PROVIDED VIA CELLULAR MODEM

3 INSTALL UNDERGROUND INFRASTRUCTURE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	COMMUNICATION PROJECT OVERVIEW	SHEET 187	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun\t15.dgn 2024.08.1 10:06 AM PLOT BY : jmatson PLOT NAME : PLOT SCALE : 750:1

WISDOT/CADDS SHEET 42

LEGEND

NONMETALLIC COMMUNICATION CONDUIT 2", UNLESS OTHERWISE NOTED

FTMS CONDUIT

COMMUNICATIONS VAULT

CONTROL CABINET

NOTE: GRAYSHADE REPRESENTS EXISTING

N

FOXCONN DRIVEWAY

ROADWAY CONSTRUCTION BY OTHERS

400IN4A

400IN4B

R/W

BRAUN ROAD

19BRW 120BRW 121BRW 122BRW 123BRW 124BRW 125BRW

ONLY

40'

45'

19BRE 120BRE 121BRE 122BRE 123BRE 124BRE 125BRE

3006FC2A

3006FC2B

FIBER OPTIC TRACER CABLE

CV123BRE

2-2" HDPE

CB1 (S51-1469)

3005FC2A

3005FC2B

CONSTRUCTION NOTES;

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM. CONTACT THE REGIONAL ELECTRICAL FIELD UNIT AT (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. PROPOSED STORM SEWER, LIGHTING, DETECTABLE WARNING FIELDS AND TRAFFIC SIGNALS ARE SHOWN GRAYSHADED FOR PLAN CLARITY.

TRAFFIC CONTROL INTERCONNECT
BRAUN ROAD & FOXCONN DRIVEWAY
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

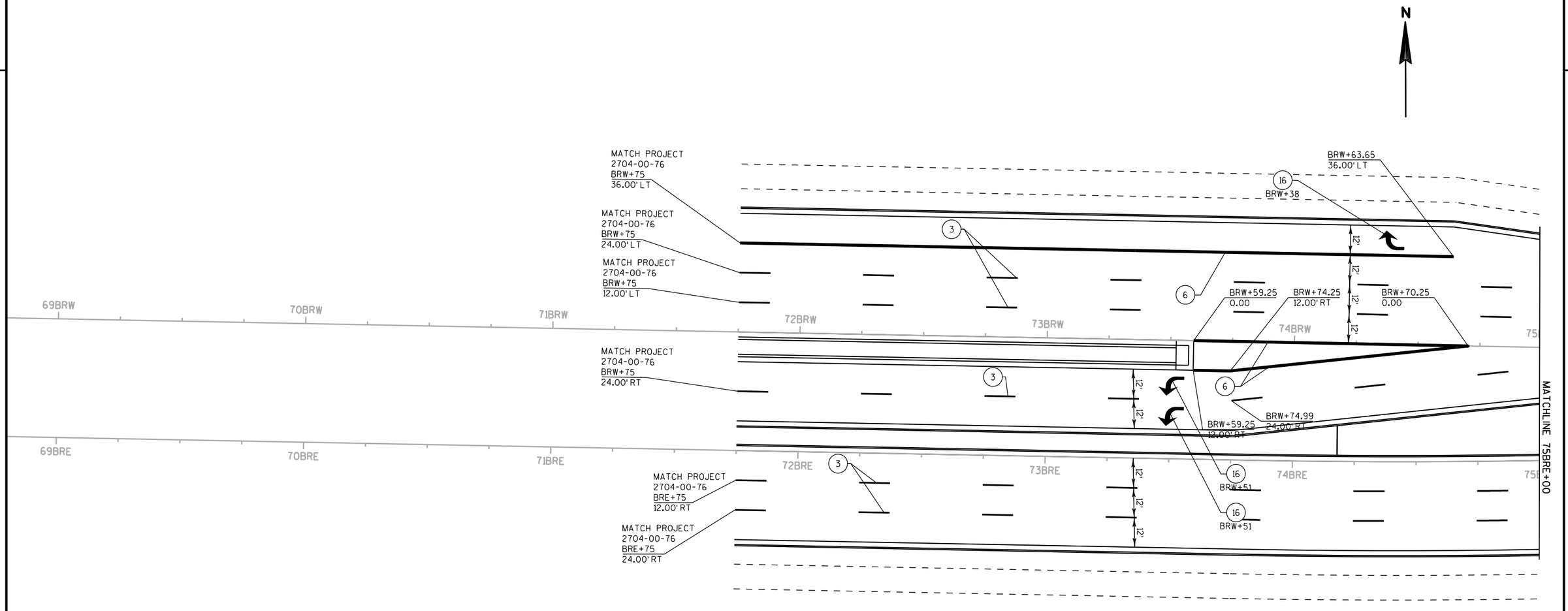
SIGNAL NO. S51-1469

REGION CONTACT: MATTHEW COWAP
DESIGNED BY: HNTB
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	COMMUNICATION PLAN	SHEET 188	E

2



LEGEND

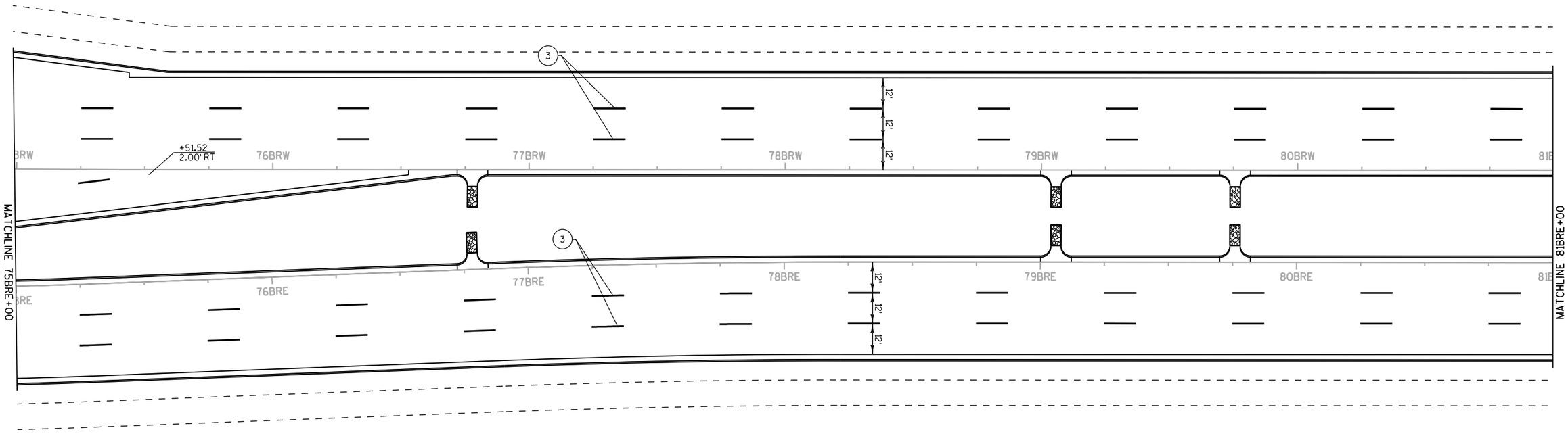
(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)

(6) MARKING LINE EPOXY 8-INCH (WHITE)

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 189	E

2

N



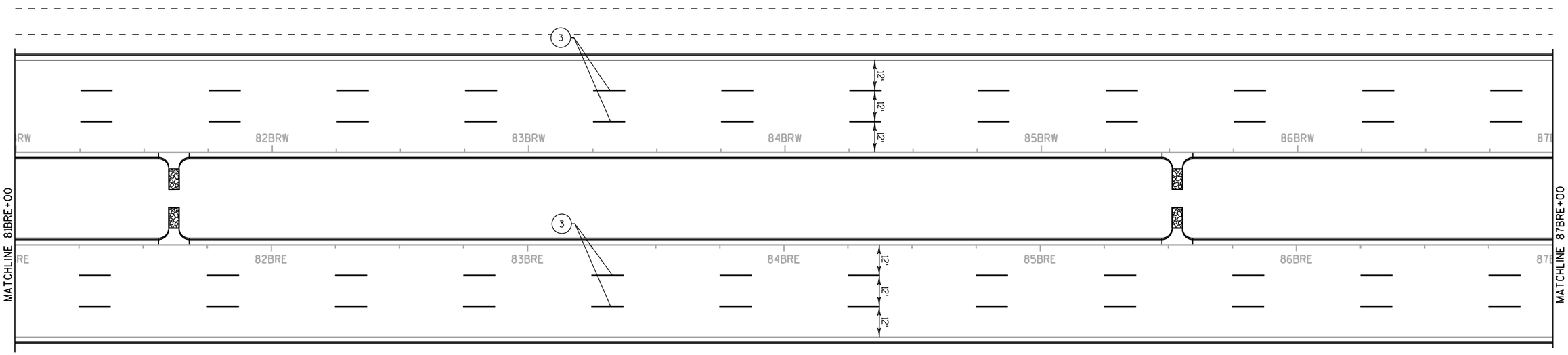
LEGEND

(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 190	E

2

N



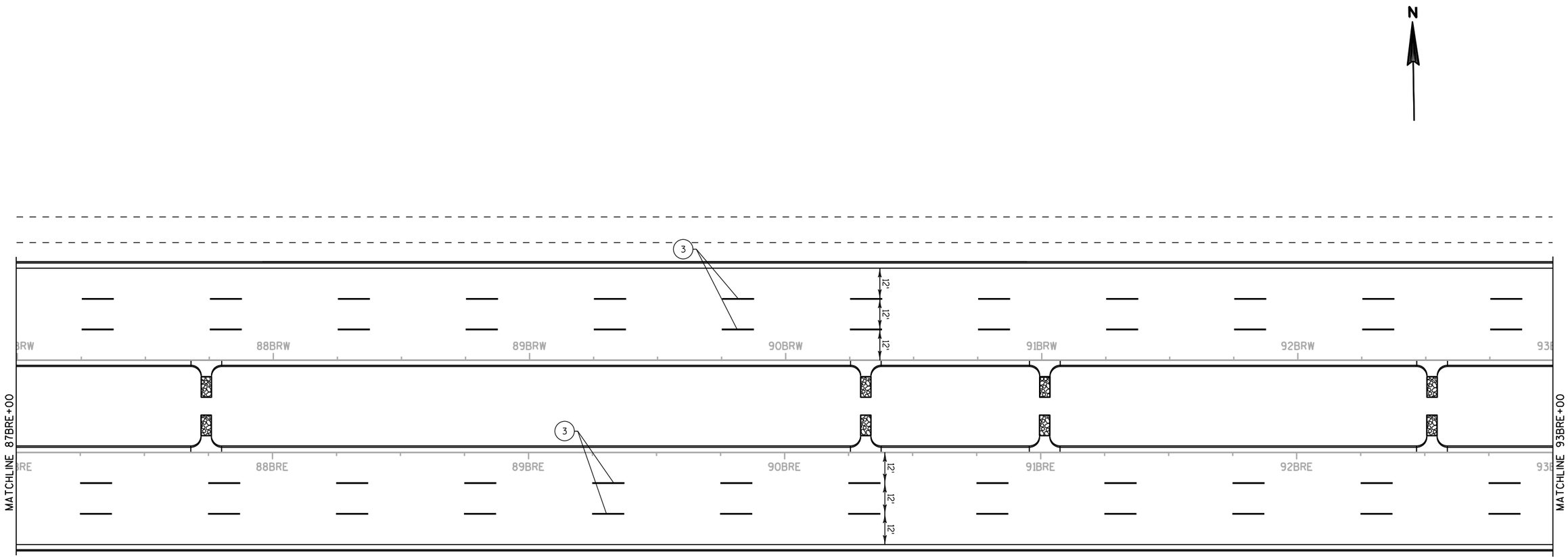
LEGEND

(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 191	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\t18.28.2018.2.Pavement Marking cds[illegible].pmdBoooooogn PLOT NAME : PLOT SCALE : 40:1

2



LEGEND

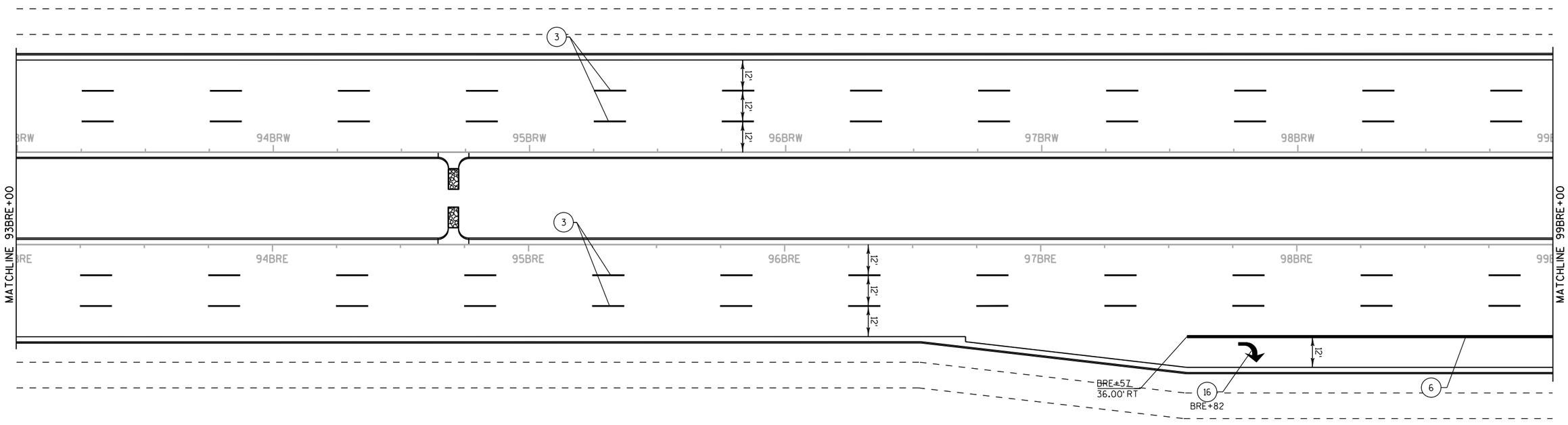
(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 192	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704PLOT DATE: 18.28 Pavement Marking cdsRD2704_pmdBoard.dgn PLOT NAME : PLOT SCALE : 40:1

2

N



LEGEND

(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE)

(6) MARKING LINE EPOXY 8-INCH (WHITE)

(16) MARKING ARROW EPOXY TYPE 2

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 193	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD\Plan\t18x28x2Pavement02v02.dgn PLOT DATE: 18-28-2021 cdsRD2765_pmdBoard PLOT NAME : PLOT SCALE : 40:1

2

N

MATCHLINE 99BRE+00

MATCHLINE 105BRE+00

99BRW 100BRW 101BRW 102BRW 103BRW 104BRW 105

99BRE 100BRE 101BRE 102BRE 103BRE 104BRE 105

BRW+22 24.00' LT

BRW+22 12.00' LT

BRW+98 24.00' LT

BRW+98 12.00' LT

BRW+83 0.00

BRW+94 0.00

BRW+83 12.00' RT

BRW+98 12.00' RT

BRW+56

BRW+96

BRW+70

BRW+54 26.00' RT

BRE+21 12.00' RT

BRE+97 12.00' RT

BRE+96 24.00' RT

BRE+43 2.00' LT

BRE+48 36.00' RT

BRE+20 24.00' RT

BRE+87 36.00' RT

BRE+43

BRE+87 43.51' RT

BRE+56

BRE+99 62.86' RT

BRE+56 82.00' RT

BRE+63 69.00' RT

BRE+71 61.00' RT

ONLY

1004FC1A

1004FC1B

1003FC1A

1003FC1B

R/L FC1 NB

R/L FC1 SB

ACCESS FC1

CONSTRUCTED BY OTHERS

LEGEND

(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

(6) MARKING LINE EPOXY 8-INCH (WHITE)

(7) MARKING STOP LINE EPOXY 18-INCH (WHITE)

(9) MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)

(14) MARKING WORD EPOXY (WHITE)

(16) MARKING ARROW EPOXY TYPE 2

(20) MARKING CURB EPOXY (YELLOW)

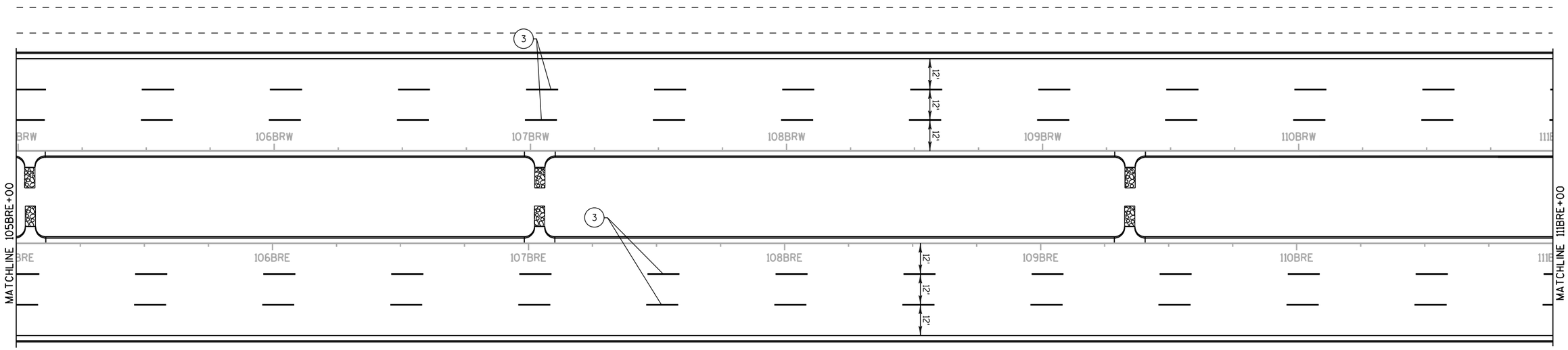
(21) MARKING ISLAND NOSE EPOXY

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 194	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040 PLOT DATE : 18:28 Pavement Marking cds RD04288_pmc Bccccccdgn PLOT NAME : PLOT SCALE : 40:1

2

N



LEGEND

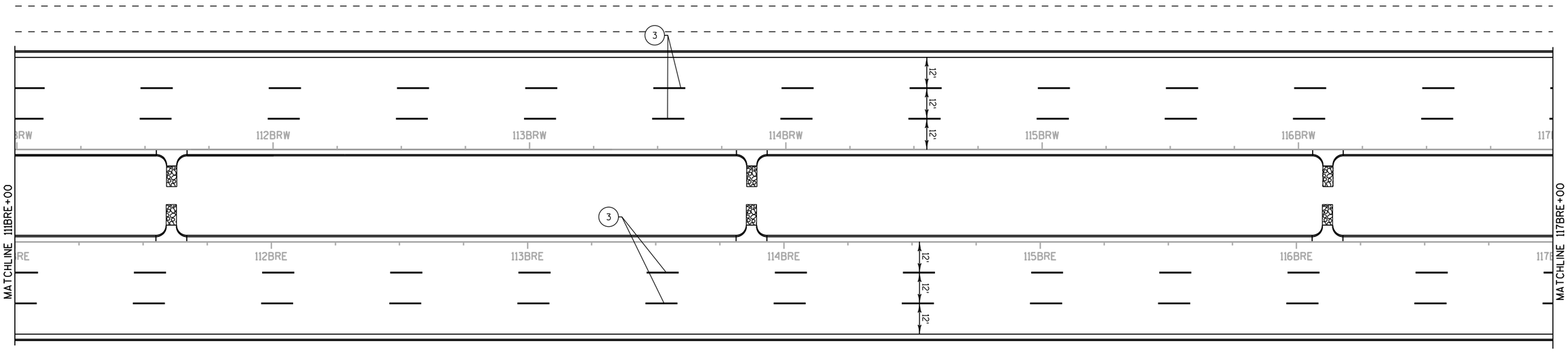
(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 195	E

2

2

N

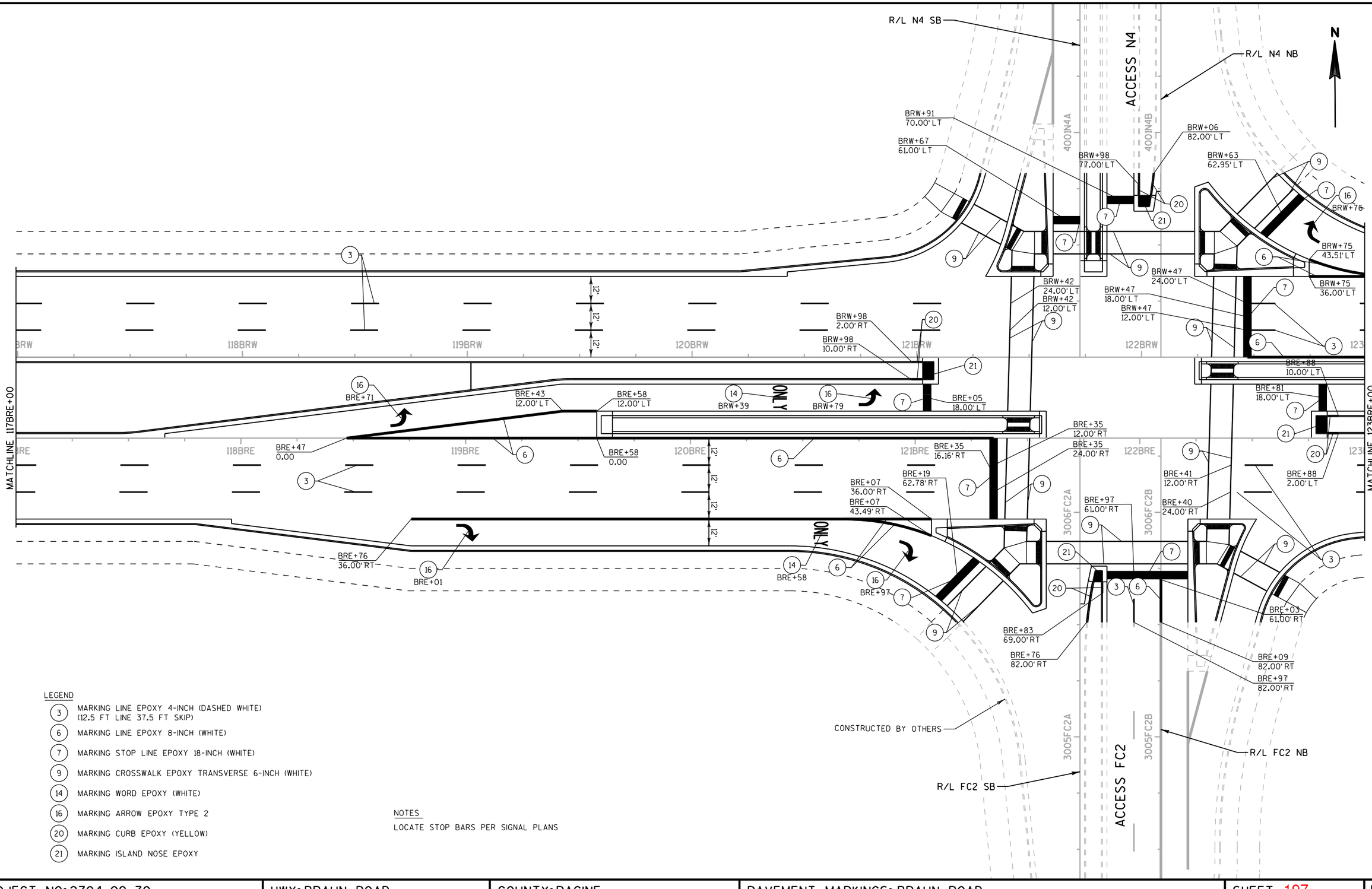


LEGEND

(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 196	E

2



LEGEND

(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

(6) MARKING LINE EPOXY 8-INCH (WHITE)

(7) MARKING STOP LINE EPOXY 18-INCH (WHITE)

(9) MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)

(14) MARKING WORD EPOXY (WHITE)

(16) MARKING ARROW EPOXY TYPE 2

(20) MARKING CURB EPOXY (YELLOW)

(21) MARKING ISLAND NOSE EPOXY

NOTES

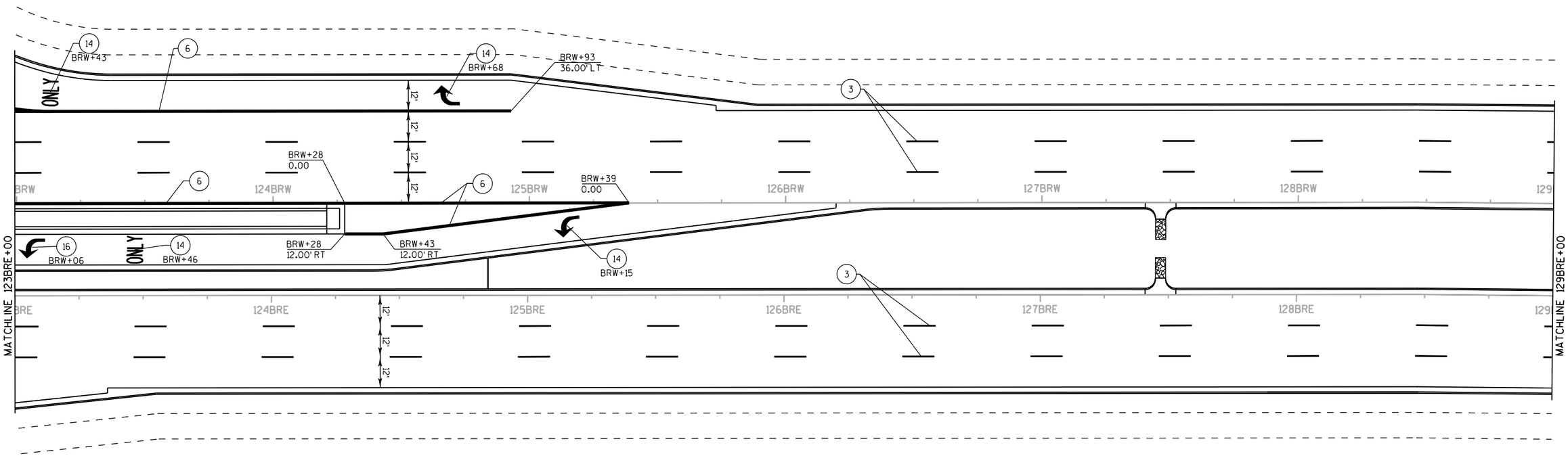
LOCATE STOP BARS PER SIGNAL PLANS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 197	E

2

2

N



LEGEND

(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

(6) MARKING LINE EPOXY 8-INCH (WHITE)

(14) MARKING WORD EPOXY (WHITE)

(16) MARKING ARROW EPOXY TYPE 2

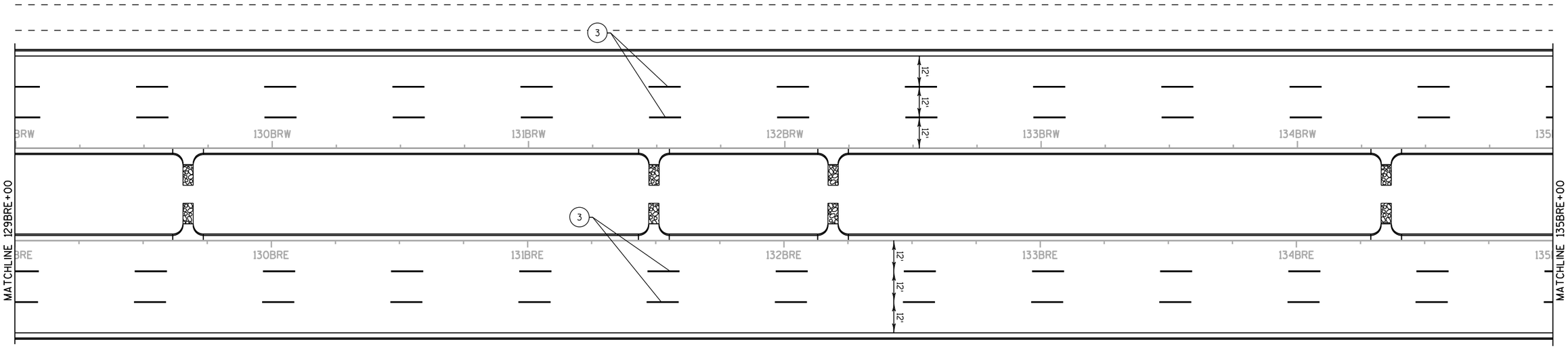
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 198	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD1\t18.28.2018.2.03.Markings cds_RD042_pmdBoard.dgn PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N



LEGEND

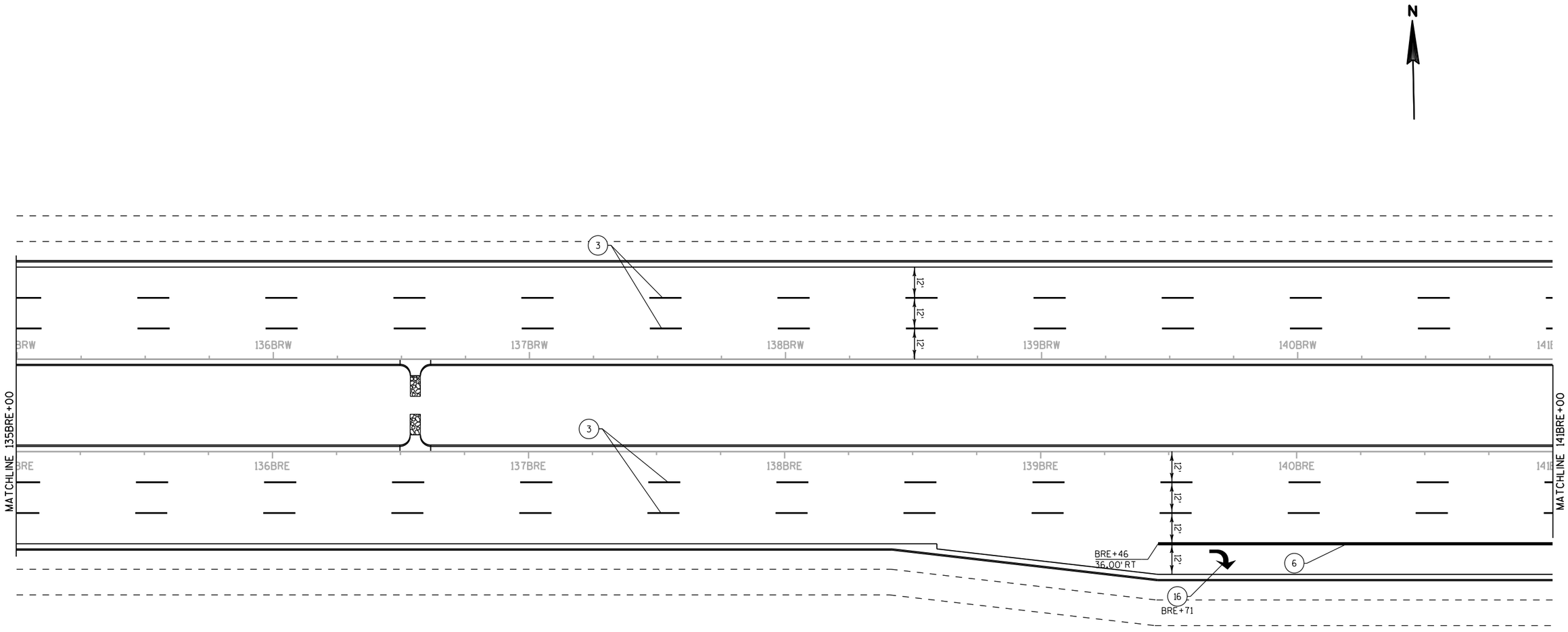
(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)

(100) TEMPORARY PAVEMENT MARKING LINE EPOXY 8-INCH

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 199	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBDAJS_18x28_Pavement Marking cdsRD042B1_pmdBoard.dgn PLOT NAME : PLOT SCALE : 40:1

2



LEGEND

(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

(6) MARKING LINE EPOXY 8-INCH (WHITE)

(16) MARKING ARROW EPOXY TYPE 2

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 200	E

2

N

MATCHLINE 141BRE+00

MATCHLINE 147BRE+00

141BRW | 142BRW | 143BRW | 144BRW | 145BRW | 146BRW | 147

141BRE | 142BRE | 143BRE | 144BRE | 145BRE | 146BRE | 147

BRW+11
24.00' LT

BRW+11
12.00' LT

BRW+87
24.00' LT

BRW+87
12.00' LT

BRW+84
0.00

BRW+95
0.00

BRW+84
12.00' RT

BRW+99
12.00' RT

BRW+44

BRW+85

BRW+71

ONLY

BRE+09
12.00' RT

BRE+85
12.00' RT

BRE+43
10.00' LT

BRE+32
2.00' LT

BRE+09
24.00' RT

BRE+85
24.00' RT

BRE+76
36.00' RT

BRE+76
43.51' RT

BRE+27

BRE+66

BRE+88
62.86' RT

BRE+45
82.00' RT

BRE+60
61.00' RT

BRE+52
69.00' RT

12'

5004FC3A

5004FC3B

5003FC3A

5003FC3B

ACCESS FC3

R/L FC3 SB

R/L FC3 NB

CONSTRUCTED BY OTHERS

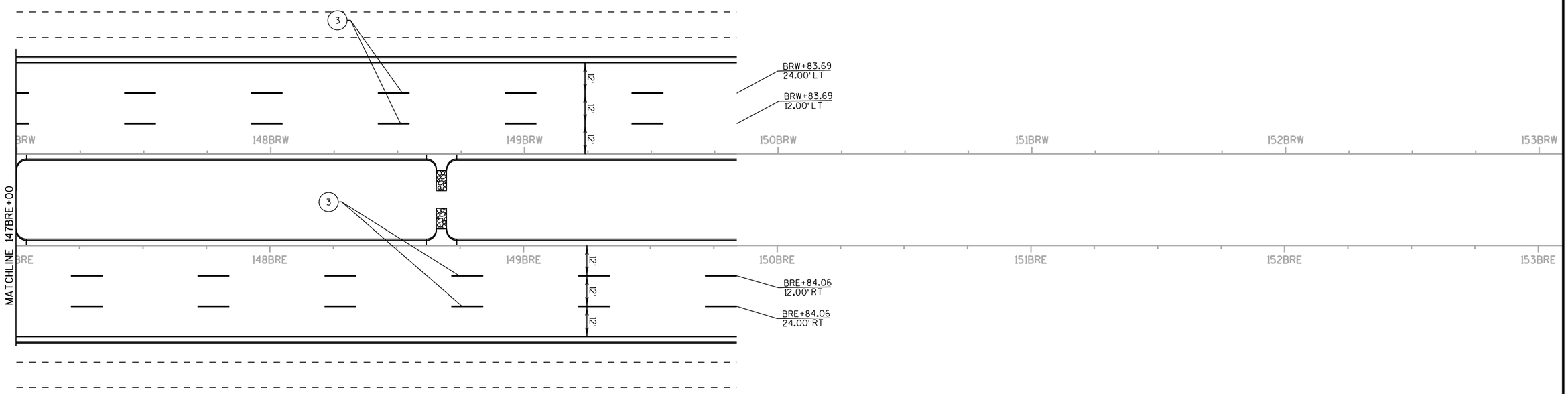
LEGEND

3	MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
6	MARKING LINE EPOXY 8-INCH (WHITE)
7	MARKING STOP LINE EPOXY 18-INCH (WHITE)
9	MARKING CROSSWALK EPOXY TRANSVERSE 6-INCH (WHITE)
14	MARKING WORD EPOXY (WHITE)
16	MARKING ARROW EPOXY TYPE 2
20	MARKING CURB EPOXY (YELLOW)
21	MARKING ISLAND NOSE EPOXY

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 201	E

2

N



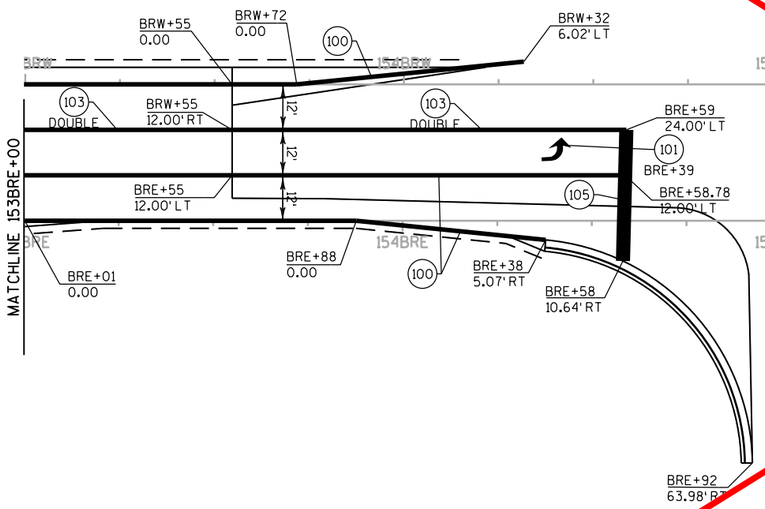
LEGEND

(3) MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 202	E

2

N



DELETED

LEGEND

(100) TEMPORARY PAVEMENT MARKING LINE EPOXY 8-INCH (WHITE)

(101) TEMPORARY PAVEMENT MARKING ARROW EPOXY

(103) TEMPORARY PAVEMENT MARKING LINE EPOXY 8-INCH (YELLOW)

(105) TEMPORARY MARKING STOP LINE EPOXY 18-INCH (WHITE)

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 203	E

2

GENERAL NOTES FOR TRAFFIC CONTROL

1) THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGN DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

2) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

3) FOR NIGHTTIME OPERATION, ALL DRUMS IN TAPERS SHALL HAVE A TYPE C STEADY BURN WARNING LIGHT.

4) TRAFFIC CONTROL ITEMS THAT ARE SHOW SCREENED ARE PLACED IN PREVIOUS STAGES AND ARE DISPLAYED FOR REFERENCE ONLY.

5) ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE A (LOW INTENSITY FLASHING) LIGHTS.

6) SEE REMOVAL SHEETS FOR REMOVAL INFORMATION.

7) ALL PAVEMENT MARKING STATIONING IN TRAFFIC CONTROL PLANS HAVE THE PREFIX OF THE ALIGNMENT THAT IT IS MEASURED OFF OF.

8) REMOVING PAVEMENT MARKING ON EXISTING AND NEW PAVEMENT USES THE STANDARD BID ITEM.

9) PROPOSED SIGNING TO BE INSTALLED WITH RESPECTIVE STAGE. FIELD ENGINEER TO DESIGNATE APPROPRIATE SIGNS TO COVER.

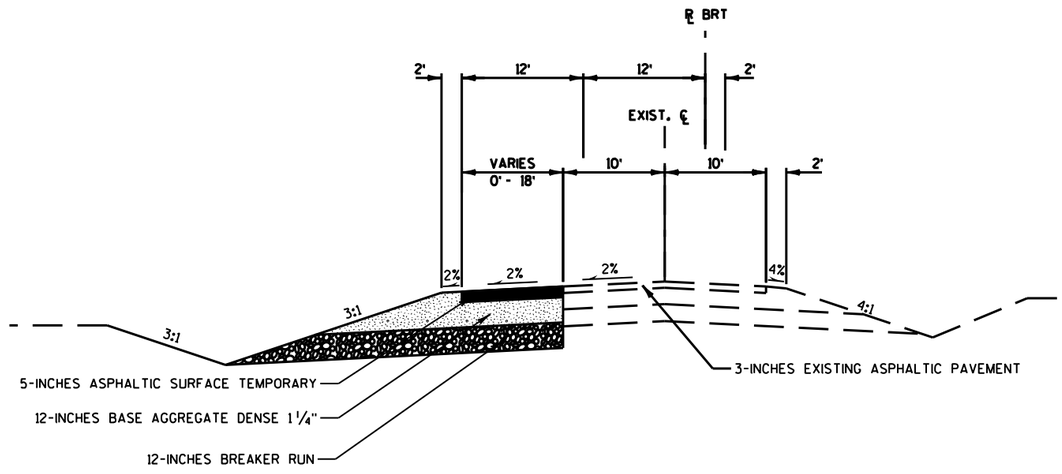
10) ALL FIXED MESSAGE SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON STANDARD REFLECTIVE SHEETING - REFERENCE: "WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION", LATEST EDITION.

11) SEE FIXED MESSAGE SIGN CONSTRUCTION DETAIL SHEETS FOR MORE INFORMATION.

TRAFFIC CONTROL LEGEND

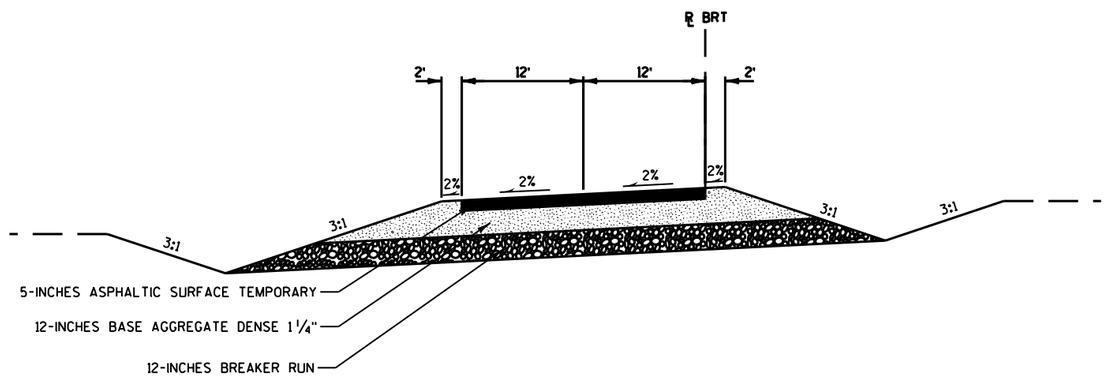
(AG02)	BASE AGGREGATE DENSE 1 1/4-INCH
	ASPHALTIC SURFACE TEMPORARY, 5-INCH
(AP03)	HMA PAVEMENT 4 LT 58-28 S (2-INCH UPPER LAYER) HMA PAVEMENT 3 LT 58-28 S (3-INCH UPPER LAYER)
(45)	TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW)
(49)	TEMPORARY MARKING LINE EPOXY 8-INCH (YELLOW)
(105)	TEMPORARY MARKING STOP LINE EPOXY 18-INCH (WHITE)
	TRAFFIC FLOW ARROW
	WORK ZONE
	TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A
	TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A AND ATTACHED SIGN
	TRAFFIC CONTROL SIGN ON PERMANENT SUPPORT
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH LIGHT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL DETAILS	SHEET 204	E



TEMPORARY BRAUN ROAD WIDENING

STA. 72BRE+34.59 - STA. 76BRE+00
STA. 96BRE+50 - STA. 128BRE+50
STA. 135BRE+50 - STA. 154BRE+21.50



TEMPORARY BRAUN ROAD

STA. 76BRE+00 - STA. 96BRE+50
STA. 128BRE+50 - STA. 135BRE+50

NOTES:

1 - SEE TYPICAL FINISHED SECTIONS FOR EAST END TIE-IN
2 - SEE TRAFFIC CONTROL DETAILS FOR HMA GRADATION SPECIFICS
3 - SEE GENERAL NOTES FOR HMA GRADATION SPECIFICS

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TYPICAL SECTIONS - BRAUN ROAD STAGING	SHEET 205	E

2

N

R/L BRAUN ROAD WB

PI TBRW-1

PC TBRW-1

65BRW 66BRW 67BRW 68BRW 69BRW 70BRW 71BRW 72BRW

739.88 739.78 739.66 739.49 739.26 739.04 738.78 738.59 738.50 738.50 738.62 738.84 739.08 739.35 739.63 740.11 740.59 741.14 741.69 742.04 742.40 742.72 743.05 743.22 743.40 743.52

65TBRW 66TBRW 67TBRW 68TBRW 70TBRW 71TBRW

65BRE 66BRE 67BRE 68BRE 72BRE

PT TBRW-1

BRTW+62.84
22.06'LT

BRTW+91.76
24.25'LT

BRAUN ROAD

CONTINUE TEMPORARY PAVEMENT MARKINGS THROUGH PROJECT

AGO2

BRTW+30.20
24.00'LT

PT TBRW-2

PC TBRW-2

PI TBRW-2

BRAUN ROAD EB

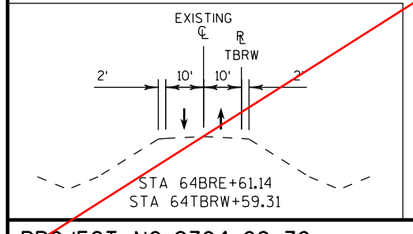
BEGIN CONSTRUCTION
STA 64TBRW+59.31
X=595585.70
Y=170360.20

R/L BRAUN ROAD EB

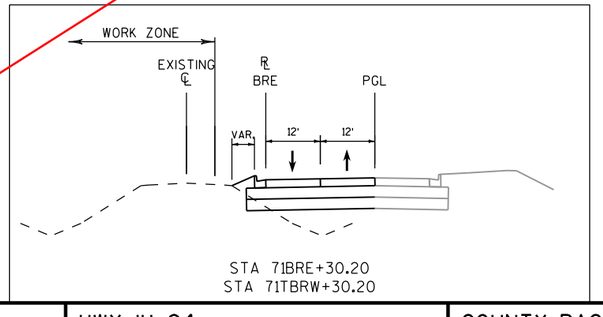
R/L TEMPORARY BRAUN ROAD WEST TIE

DELETED

END CONSTRUCTION
STA 71TBRW+30.20
X=596253.51
Y=170297.12



STA 64BRE+61.14
STA 64TBRW+59.31



STA 71BRE+30.20
STA 71TBRW+30.20

CURVE : BRTW-1
PC = 64TBRW+49.31
X = 595575.71
Y = 170359.80
PI = 64TBRW+81.55
X = 595607.94
Y = 170359.80
PT = 65TBRW+13.76
X = 595640.02
Y = 170356.53

R = 800.00'
DELTA = 4°36'55.49"
D = 7°9'43.10"
L = 64.44
T = 32.24
E = 0.65
BK = S 88°48'34.97" E
AH = S 84°11'39.47" E

CURVE : BRTW-2
PC = 70TBRW+61.47
X = 596184.92
Y = 170301.13
PI = 70TBRW+95.85
X = 596219.13
Y = 170297.65
PT = 71TBRW+30.20
X = 596253.51
Y = 170297.12

R = 800.00'
DELTA = 4°55'21.81"
D = 7°9'43.10"
L = 68.73
T = 34.39
E = 0.74
BK = S 84°11'39.47" E
AH = S 89°07'01.28" E

NOTES

- CONTINUE TEMPORARY MARKING LINE EPOXY THROUGHOUT PROJECT (SEE STAGE CONSTRUCTION SHEETS FOR MORE INFORMATION).

PROJECT NO: 2704-09-70	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: TEMPORARY TIE-INS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBRW15.11.26.x.225802.12.45.pm PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 50:1

WISDOT/CADDS SHEET 42

DELETED

N

BEGIN CONSTRUCTION
STA 149BRE+84.06
X=604107.10
Y=170221.44

R/L BRAUN ROAD WB

150BRW | 151BRW | 152BRW | 153BRW | 154BRW | 155BRW

BRAUN ROAD EB

150BRE | 151BRE | 153BRE | 154BRE | 155BRE

BRAUN ROAD

PI 89+71
X= 604606.35
Y= 172875.35

65+00

64+00

63+00

62+00

BRW+85.45
57.69' LT

R/L CTH H

BRW+29.96
3.73' RT

PI 63+26
X= 604629.10
Y= 170230.15

BRW+40.09
15.00' RT

BRW+59.64
15.00' RT

R = 4.5'

BRE+60.00
12.00' LT

BRE+20.45
12.00' LT

BRE+20.90
0.00

BRE+87.81
0.00'

BRE+27.81
4.06' RT

BRE+37.81
5.07' RT

CG04

END CONSTRUCTION
STA 154BRE+91.17
X=604614.14
Y=170212.41

BRE+92.42
63.66' RT

PI 36+57
X= 604622.67
Y= 167561.45

AG02

BRE+00.90
24.00' RT

BRE+00.97
38.00' RT

BRE+50.00
22.32' RT

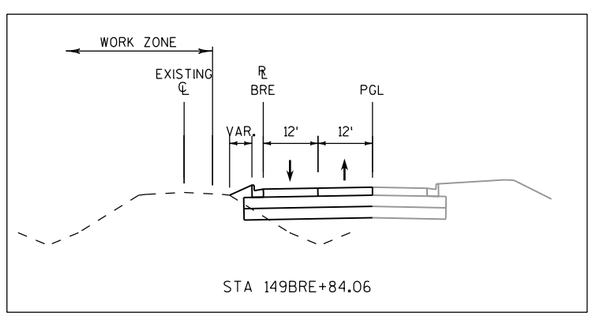
DOUBLE

CONTINUE TEMPORARY
PAVEMENT MARKINGS
THROUGH PROJECT

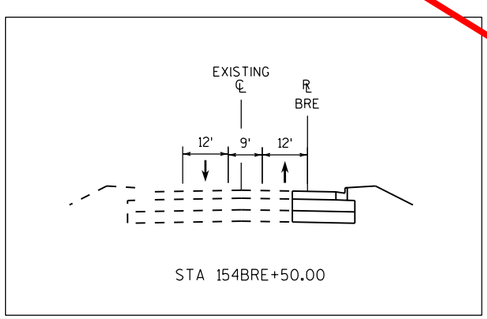
R/L BRAUN ROAD EB

NOTES

CONTINUE TEMPORARY MARKING LINE EPOXY
THROUGHOUT PROJECT.



STA 149BRE+84.06



STA 154BRE+50.00

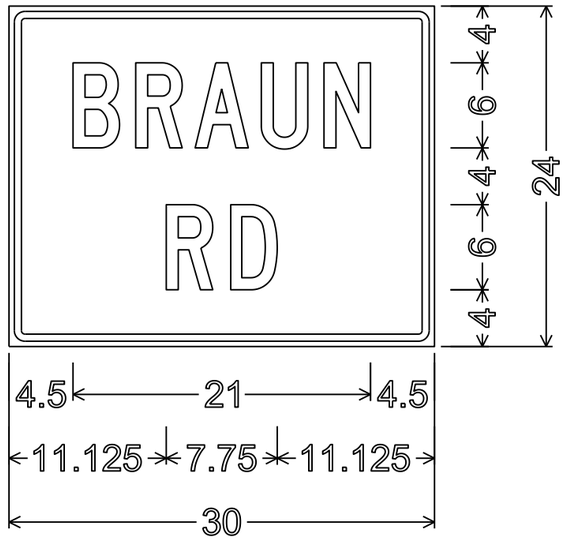
PROJECT NO: 2704-09-70	HWY: IH 94	COUNTY: RACINE	CONSTRUCTION DETAILS: TEMPORARY TIE-INS	SHEET 207 E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040901TBD.dgn PLOT DATE : 14 Jan 2025 02:52:52pm PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES

1. All Signs Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C



1.125" Radius, 0.500" Border, 0.375" Indent

7

7

PROJECT NO:2704-09-70	HWY: BRAUN ROAD	COUNTY:RACINE	TEMPORARY SIGNING	SHEET NO: 208	E

2

2

N

BRAUN RD

KILBOURN ROAD DITCH

N3

N4

N5

CTH H

FC1

FC2

FC3

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

PROJECT NO:2704-09-70	HWY:BRAUN ROAD	COUNTY:RACINE	TRAFFIC CONTROL STAGE 1 OVERVIEW MAP	SHEET 209	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD.dgn PLOT DATE : 14 Dec 2018 2:55:04 PM USER NAME : dbaumann PLOT NAME : PLOT SCALE : 889.795:1

WISDOT/CADDS SHEET 42

2

2

N

ROAD CLOSED AHEAD
W20-3
BRAUN RD
900

500'

ROAD CLOSED
R11-2
48" X 30"

500'

ROAD CLOSED AHEAD
W20-3
BRAUN RD
900

BRAUN ROAD

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

A

A

42BRE 44BRE 46BRE 48BRE 50BRE 52BRE 54BRE

46BFW 48BFW 50BFW 52BFW

GUY GUY GUY SEPTIC POST POST POST MP MP

2714WFRC 2714WFRD 3714EFRC 3714EFRD

3712WFRC 3712WFRD 3712EFRC 3712EFRD

4710WFRA 4710WFRB 5710EFRA 5710EFRB

4708WFRA 4708WFRB 5708EFRA 5708EFRB

MATCHLINE 54BRE+00

EXISTING
℄
2' 10' 10' 2'
SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SHEET	E

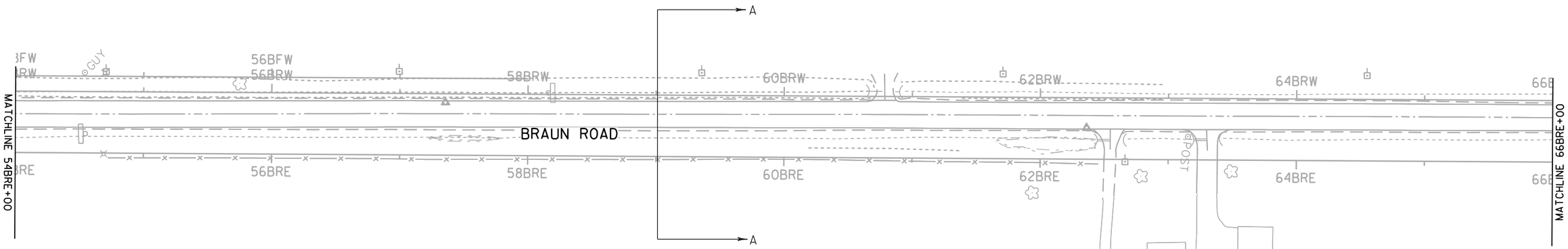
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WISDOT/CADDS SHEET 42

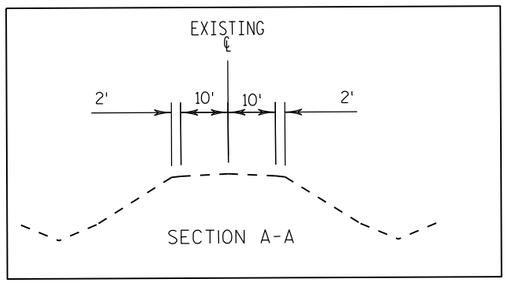
2

N

A



A



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SHEET 211	E

2

N

A

A

BRAUN ROAD

MATCHLINE 66BRE+00

MATCHLINE 78BRE+00

68BRW

70BRW

72BRW

74BRW

76BRW

68BRE

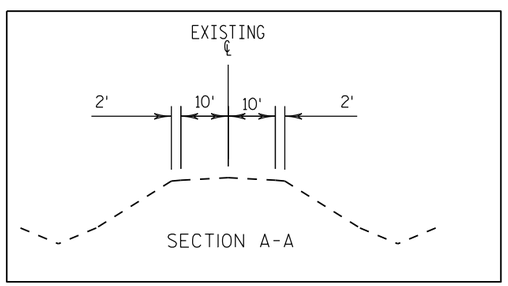
70BRE

72BRE

74BRE

76BRE

POST



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SHEET 212	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040PLOT DATE = 4/26/2018 3:56:00 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2

N

MATCHLINE 78BRE+00

80BRW 82BRW 84BRW 86BRW 88BRW

BRAUN ROAD

80BRE 82BRE 84BRE 86BRE 88BRE

POST POST GUY GUY GUY GUY

A

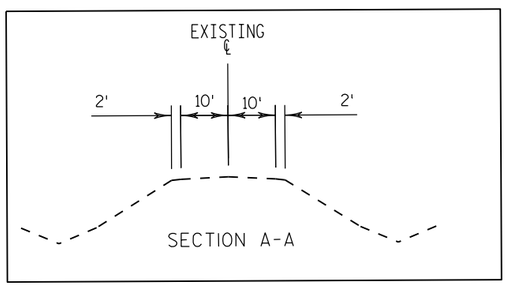
A

SEE CROSS SECTIONS FOR STORM SEWER INSTALLATION

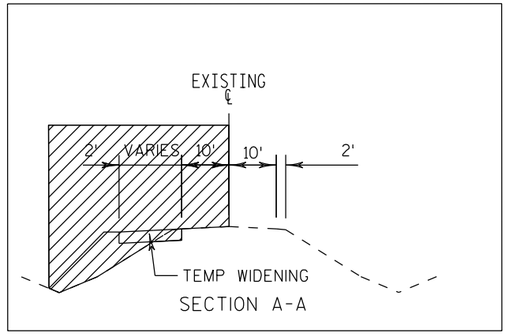
STAGE OPERATIONS FOR BOX CULVERT, DIVERSION CHANNEL, AND POOR SOILS EXCAVATION TO AVOID POWER POLES PRIOR TO WE ENERGIES DE-ENERGIZATION AT THE TIME OF REAL ESTATE BEING FULLY CLEAR

MATCHLINE 90BRE+00

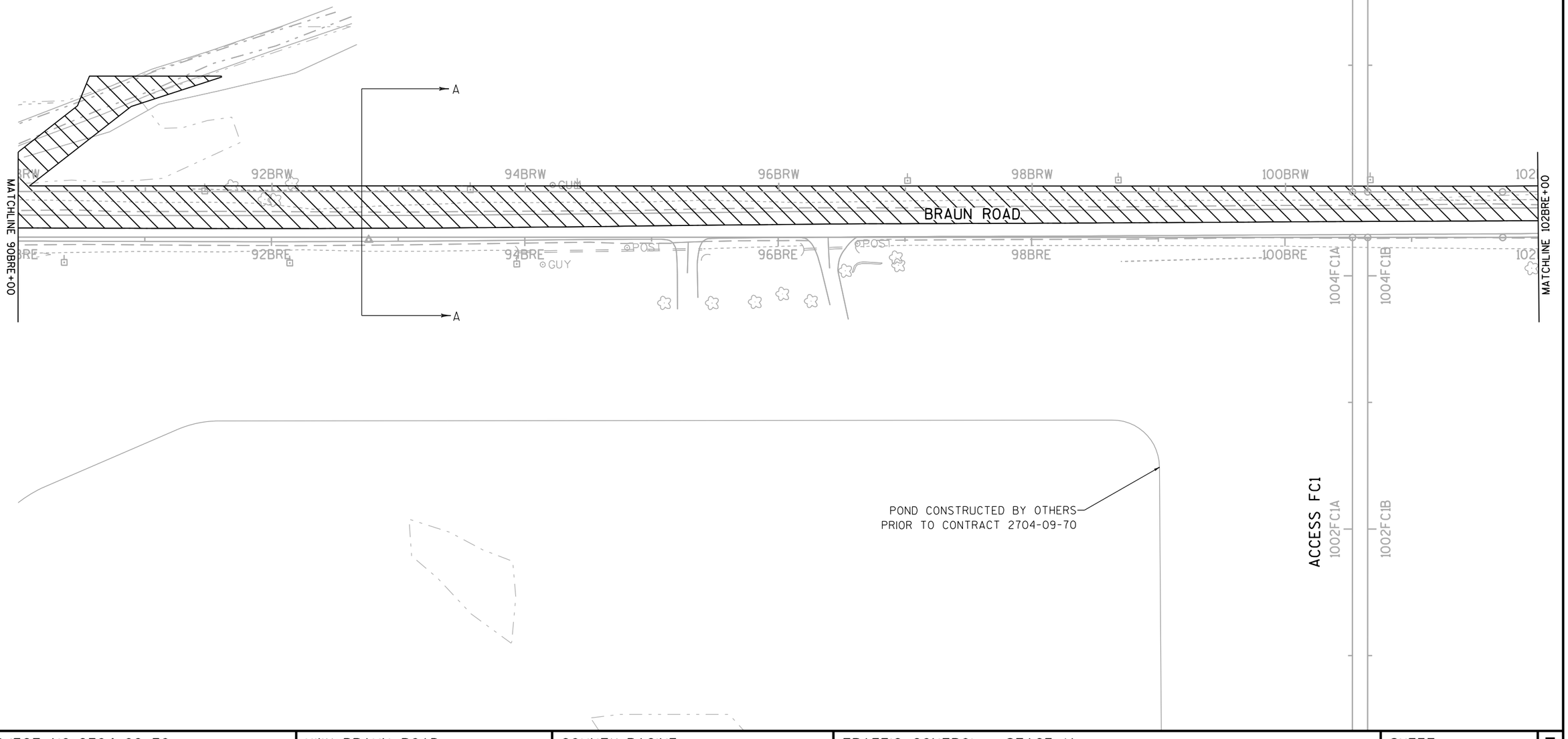
POND CONSTRUCTED BY OTHERS PRIOR TO CONTRACT 2704-09-70



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SHEET 213	E



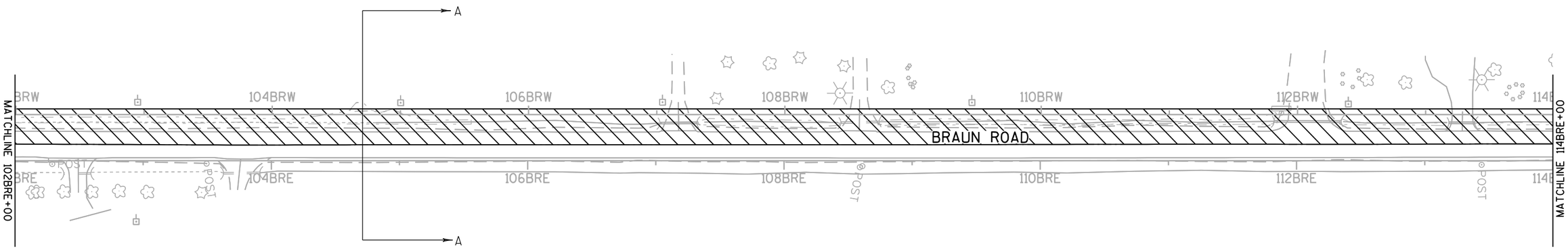
SECTION A-A

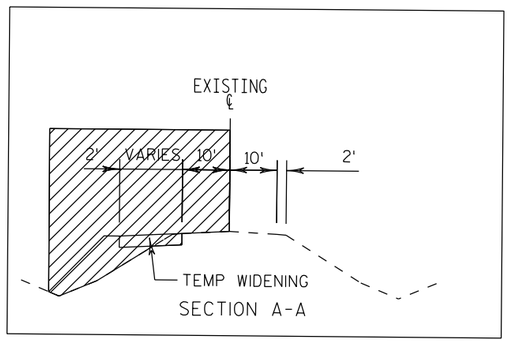


PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SHEET 214	E

2

N





PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SHEET 215	E

2

2

N

ACCESS N4

4002N4A

4002N4B

A

BRAUN ROAD

MATCHLINE 114BRE+00

MATCHLINE 126BRE+00

116BRW

118BRW

120BRW

122BRW

124BRW

116BRE

118BRE

120BRE

122BRE

124BRE

POST

GUY

A

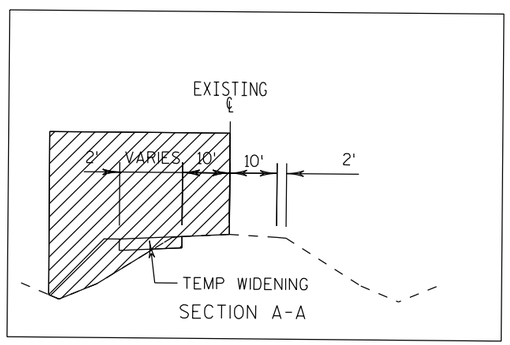
ACCESS FC2

3004FC2A

3004FC2B

3006FC2A

3006FC2B



SECTION A-A

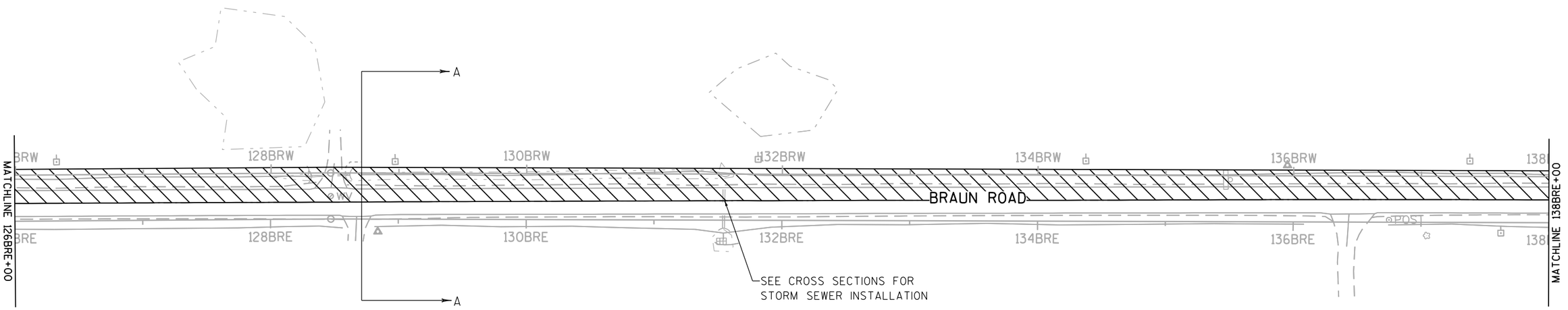
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SHEET	E

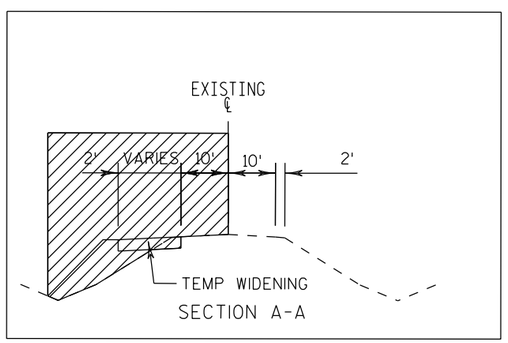
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2

N





SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SHEET 217	E

2

2

N

6002N5A

6002N5B

ACCESS N5

A

MATCHLINE 138BRE+00

MATCHLINE 150BRE+00

BRAUN ROAD

138BRW

140BRW

142BRW

144BRW

146BRW

148BRW

150

POST

MH

138BRE

140BRE

142BRE

144BRE

146BRE

148BRE

150

5004FC3A

5004FC3B

5002FC3A

5002FC3B

ACCESS FC3

A

EXISTING

2'

VARIES

10'

10'

2'

TEMP WIDENING

SECTION A-A

POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn 14.26 x 22.50 3:16:26 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2

N

ROAD CLOSED AHEAD
W20-3
BRAUN RD
900

500'

ROAD CLOSED
R11-2
48" X 30"

A

BRAUN ROAD

MATCHLINE 150BRE+00

152BRW 154BRW 156BRW 158BRW 160BRW 162BRW

152BRE 154BRE 156BRE 158BRE 160BRE 162BRE

GUY POST MH AG

W 105TH ST

COORDINATE TEMPORARY TRAFFIC SIGNAL MODIFICATIONS WITH CONTRACTOR FOR I.D. 2818-00-73

POND CONSTRUCTED BY OTHERS PRIOR TO CONTRACT 2704-09-70

ROAD CLOSED AHEAD
W20-3
BRAUN RD
900

EXISTING ℄

2' VARIES 10' 10' 2'

TEMP WIDENING

SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SHEET 219	E

2

2

N

2714WFRC

2714WFRD

3714EFRC

3714EFRD

ROAD CLOSED AHEAD W20-3

BRAUN RD

900

3712EFRC

3712EFRD

A

SEPTIC

GUY

POST

GUY

46BFW

POST

GUY

48BFW

2712WFRC

2712WFRD

50BFW

52BFW

POST

54E

54E

BRAUN ROAD

42BRE

44BRE

46BRE

48BRE

50BRE

MP

ROAD CLOSED R11-2 48" X 30"

52BRE

POST

54E

MATCHLINE 54BRE+00

A

4710WFRA

4710WFRB

WEST FRONTAGE ROAD

5710EFRA

5710EFRB

EAST FRONTAGE ROAD

ROAD CLOSED AHEAD W20-3

BRAUN RD

900

4708WFRA

4708WFRB

5708EFRA

5708EFRB

EXISTING

℄

2'

10'

10'

2'

SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SHEET 220	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040PLOT DATE = 14 JUN 2018 12:56:35 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2

N

A

56BFW
56BRW
58BRW
60BRW
62BRW
64BRW
66B

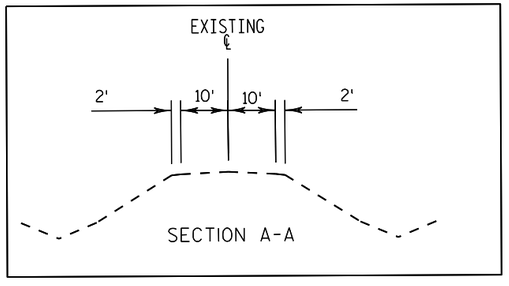
BRAUN ROAD

56BRE
58BRE
60BRE
62BRE
64BRE
66B

MATCHLINE 54BRE+00

MATCHLINE 66BRE+00

A



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SHEET 221	E

2

2

N

A

CULVERT PIPE 15"

CULVERT PIPE 15"

BRAUN ROAD

MATCHLINE 66BRE+00

MATCHLINE 78BRE+00

68BRW

70BRW

72BRW

74BRW

76BRW

68BRE

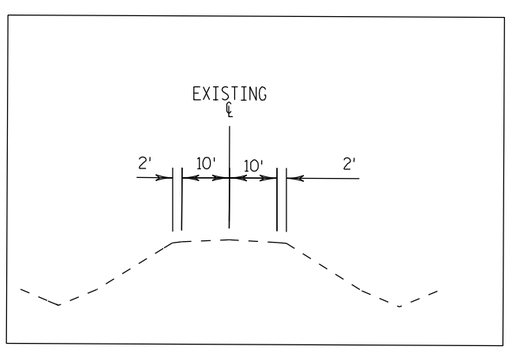
70BRE

72BRE

74BRE

76BRE

POST



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SHEET 222	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun\t15.26.2268.12.10.5M.dgn PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2

N

CONSTRUCT B-51-160 CARRYING
BRAUN ROAD OVER KILBOURN ROAD
DITCH

A

CULVERT PIPE 15"

BRAUN ROAD

MATCHLINE 78BRE+00

MATCHLINE 90BRE+00

80BRW 82BRW 84BRW 86BRW 88BRW

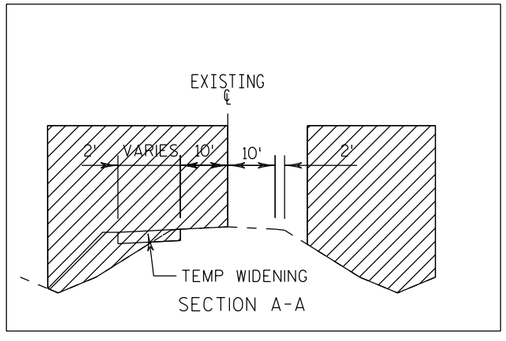
80BRT 82BRT 84BRT 86BRT 88BRT

80BRE 82BRE 84BRE 86BRE 88BRE

POST

GUY

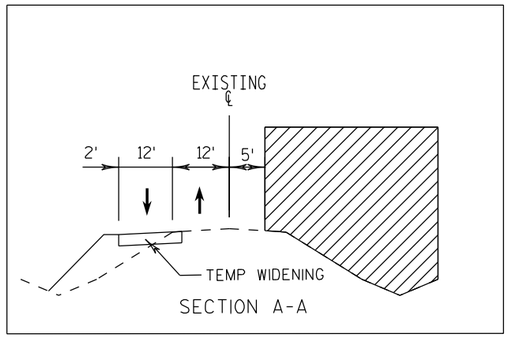
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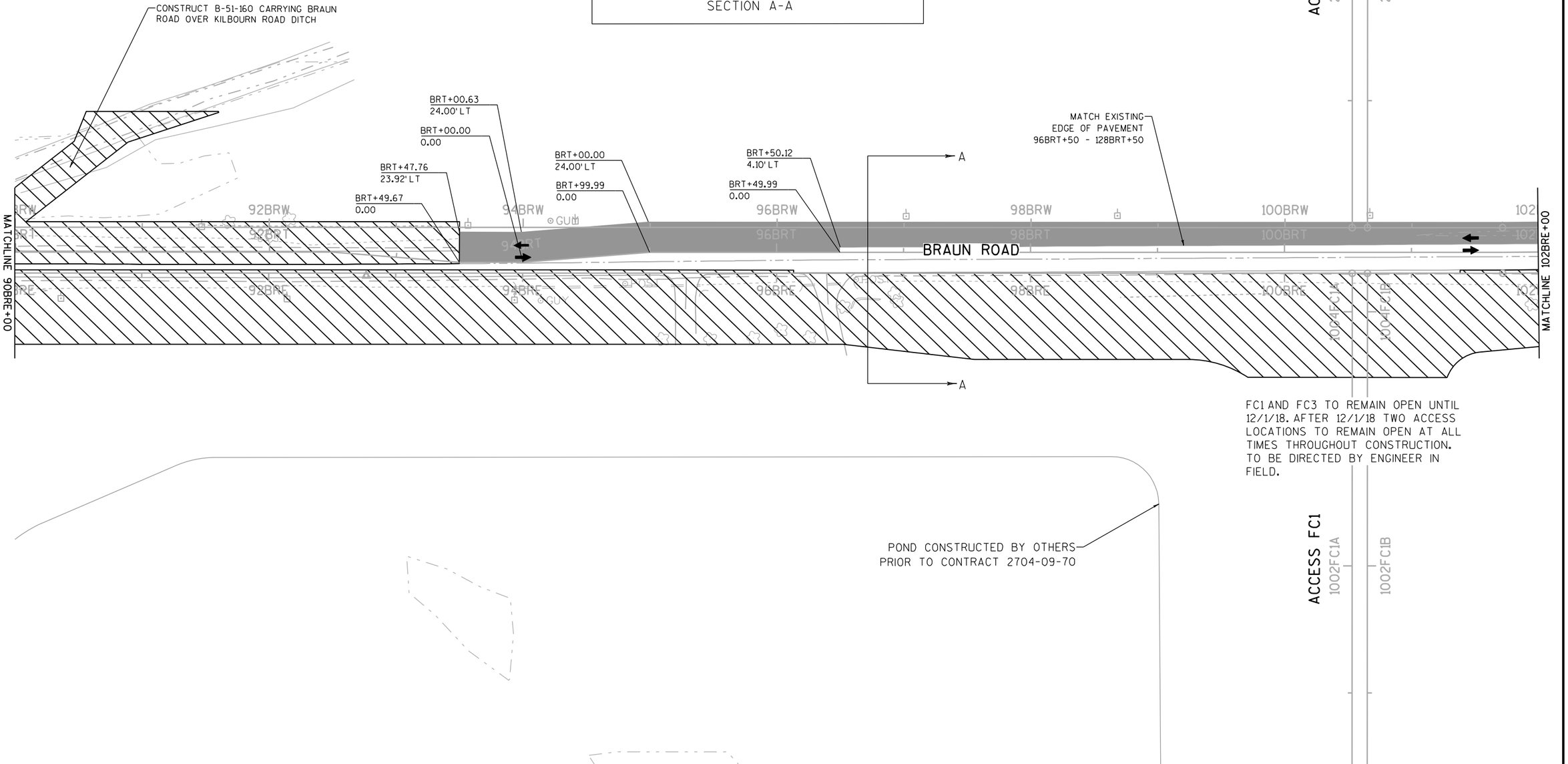


SECTION A-A

POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SHEET 223	E



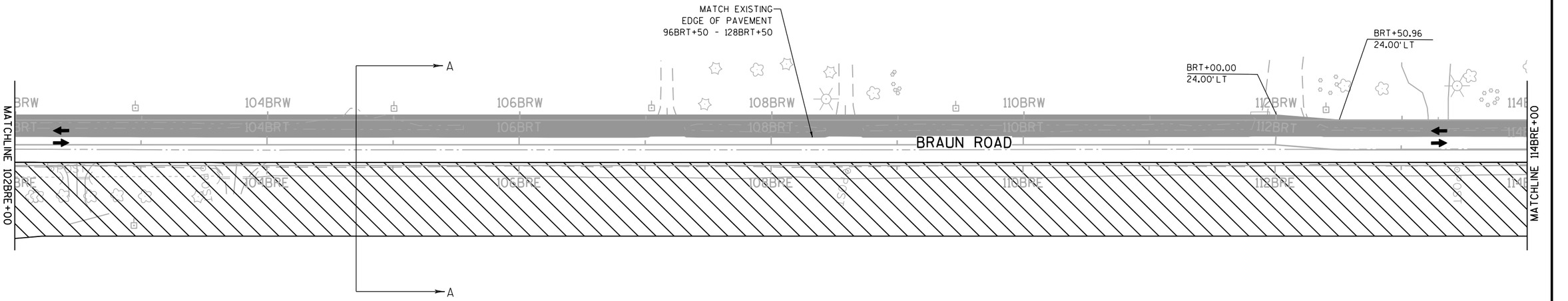


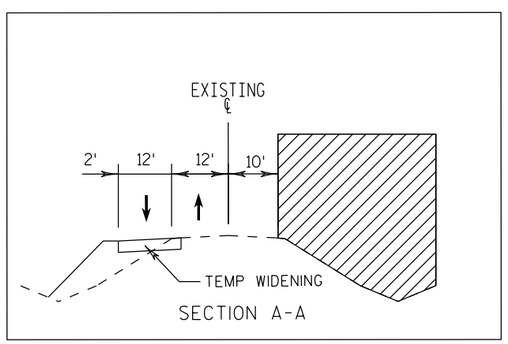
2

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SHEET 224	E

2







PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SHEET 225	E

2

N

ACCESS N4

4002N4A

4002N4B

A

BRT+19.00
24.00' LT

BRT+49.04
24.00' LT

MATCH EXISTING
EDGE OF PAVEMENT
96BRT+50 - 128BRT+50

MATCHLINE 114BRE+00

MATCHLINE 126BRE+00

BRAUN ROAD

116BRW 118BRW 120BRW 122BRW 124BRW

116BRT 118BRT 120BRT 122BRT 124BRT

116BRE 118BRE 120BRE 122BRE 124BRE

3006FC2A

3006FC2B

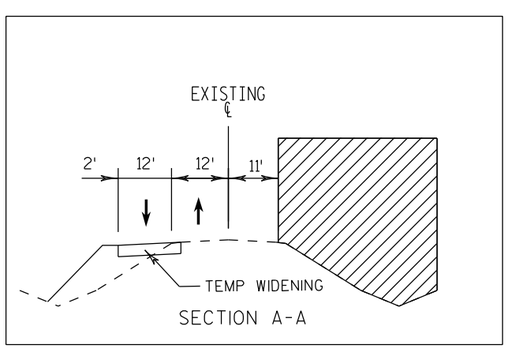
A

FC1 AND FC3 TO REMAIN OPEN UNTIL 12/1/18. AFTER 12/1/18 TWO ACCESS LOCATIONS TO REMAIN OPEN AT ALL TIMES THROUGHOUT CONSTRUCTION. TO BE DIRECTED BY ENGINEER IN FIELD.

ACCESS FC2

3004FC2A

3004FC2B

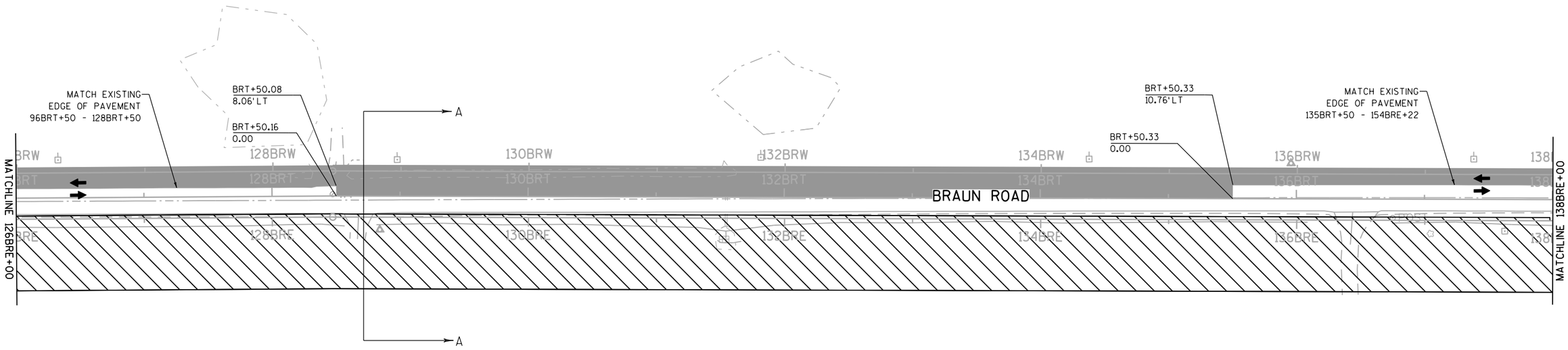


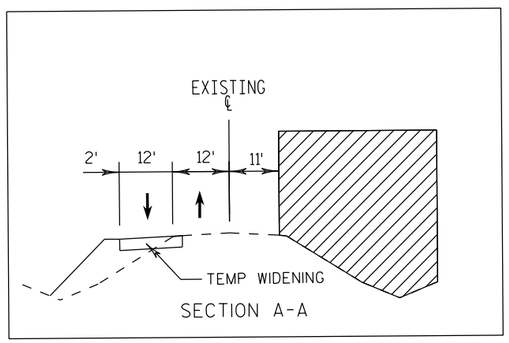
SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SHEET 226	E

2

N





PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SHEET 227	E

2

2

N

6002N5A

6002N5B

ACCESS N5

MATCH EXISTING
EDGE OF PAVEMENT
135BRT+50 - 154BRE+22

A

BRAUN ROAD

MATCHLINE 138BRE+00

MATCHLINE 150BRE+00

140BRW 142BRW 144BRW 146BRW 148BRW

140BRT 142BRT 144BRT 146BRT 148BRT

140BRE 142BRE 144BRE 146BRE 148BRE

POST

5004FC3A

5004FC3B

A

FC1 AND FC3 TO REMAIN OPEN UNTIL 12/1/18. AFTER 12/1/18 TWO ACCESS LOCATIONS TO REMAIN OPEN AT ALL TIMES THROUGHOUT CONSTRUCTION. TO BE DIRECTED BY ENGINEER IN FIELD.

5002FC3A

5002FC3B

ACCESS FC3

POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

EXISTING
℄

2' 12' 12' 11'

TEMP WIDENING

SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SHEET 228	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun\t15.26x22658.31.dgn PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2

N

ROAD CLOSED AHEAD
W20-3

BRAUN RD
900

MATCH EXISTING
EDGE OF PAVEMENT
135BRT+50 - 154BRE+22

BRT+05.75
13.47' LT

BRT+05.74
11.22' LT

BRT+50.75
13.31' LT

BRT+22.19
24.00' LT

ROAD CLOSED
TO
THRU TRAFFIC
R11-4
60" X 30"

A

BRAUN ROAD

50'

MATCHLINE 150BRE+00

COORDINATE TEMPORARY TRAFFIC SIGNAL
MODIFICATIONS WITH CONTRACTOR FOR I.D.
2818-00-73

POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

152BRW 154BRW 156BRW 158BRW 160BRW 162BRW
152BRT 154BRT
152BRE 154BRE 156BRE 158BRE 160BRE 162BRE

GUY POST MH BORE AG

ROAD CLOSED AHEAD
W20-3

BRAUN RD
900

EXISTING
℄
2' 12' 12'
TEMP WIDENING
SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SHEET 229	E

2

N

BRAUN ROAD

42BRE 44BRE 46BRE 48BRE 50BRE 52BRE 54BRE

46BFW 48BFW 50BFW 52BFW

2714WFRC 2714WFRD 3714EFRC 3714EFRD

2712WFRC 2712WFRD 3712EFRC 3712EFRD

4710WFRA 4710WFRB 5710EFRA 5710EFRB

4708WFRA 4708WFRB 5708EFRA 5708EFRB

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

GUY POST SEPTIC MP

ROAD CLOSED AHEAD
W20-3
BRAUN RD
900

ROAD CLOSED TO THRU TRAFFIC
R11-4
60" X 30"

50'

MATCHLINE 54BRE+00

A

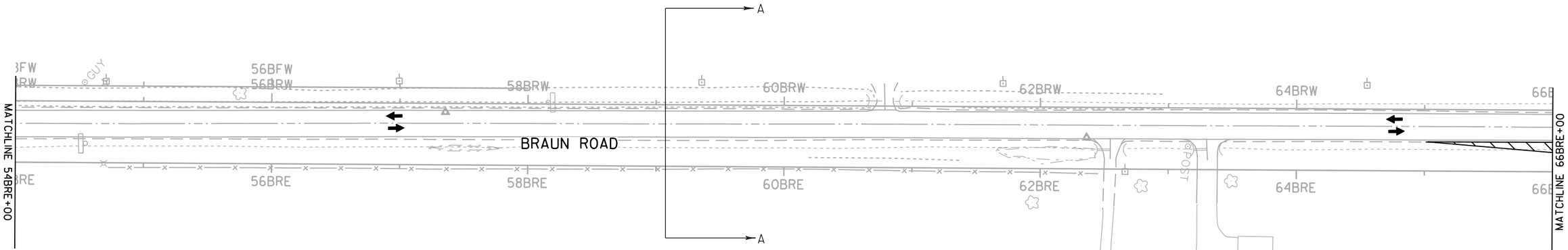
A

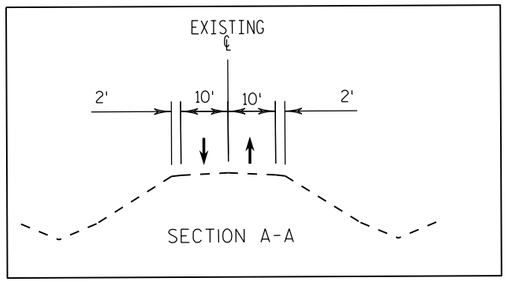
EXISTING
℄
2' 10' 10' 2'
SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1C	SHEET 230	E

2

N





PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1C	SHEET 231	E

2

N

A

TEW1 69BRE+00.00, 48.90' LT

CONSTRUCTION ID: 2704-09-70

CONSTRUCTION ID: 2704-00-76

BRAUN ROAD

MATCHLINE 66BRE+00

MATCHLINE 78BRE+00

68BRW 70BRW 72BRW 74BRW 76BRW

68BRE 70BRE 72BRE 74BRE 76BRE

T2 69BRE+00.00, 21.30' LT INLET 1G-MS

69BRE+10.00, 21.30' LT INLET 1G-MS T1

A

EXISTING

℄

2' 10' 10' 2'

SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1C	SHEET 232	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun_t15.26.2026 3:31:58 PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

2

N

A

MATCHLINE 78BRE+00

80BRW 82BRW 84BRW 86BRW 88BRW

80BRT 82BRT 84BRT 86BRT 88BRT

BRAUN ROAD

80BRE 82BRE 84BRE 86BRE 88BRE

MATCHLINE 90BRE+00

GUY

A

EXISTING

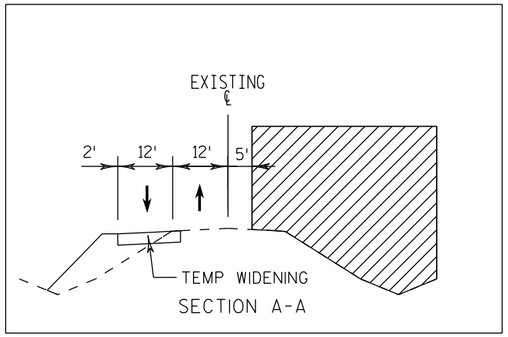
2' 12' 12' 10'

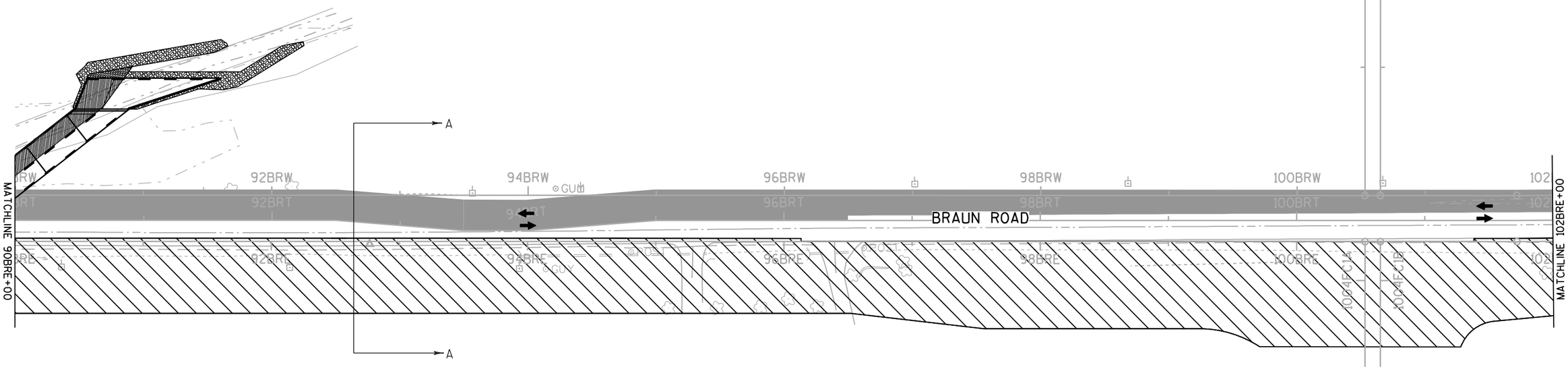
TEMP WIDENING

SECTION A-A

POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1C	SHEET 233	E





FC1 AND FC3 TO REMAIN OPEN UNTIL 12/1/18. AFTER 12/1/18 TWO ACCESS LOCATIONS TO REMAIN OPEN AT ALL TIMES THROUGHOUT CONSTRUCTION. TO BE DIRECTED BY ENGINEER IN FIELD.

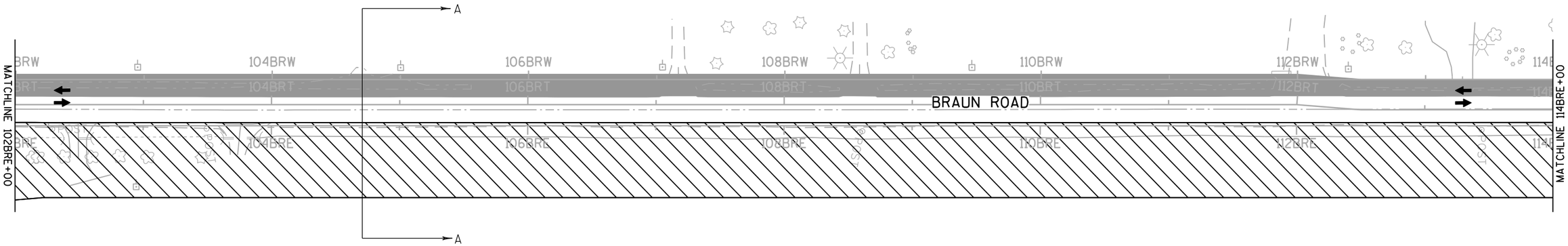
POND CONSTRUCTED BY OTHERS PRIOR TO CONTRACT 2704-09-70

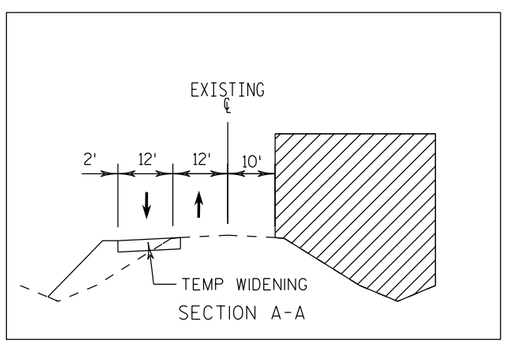
ACCESS FC1
1002FC1A
1002FC1B

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1C	SHEET 234	E

2

N





PROJECT NO:2704-09-70	HWY:BRAUN ROAD	COUNTY:RACINE	TRAFFIC CONTROL - STAGE 1C	SHEET 235	E

2

2

N

ACCESS N4

4002N4A

4002N4B

A

MATCHLINE 114BRE+00

MATCHLINE 126BRE+00

116BRW

118BRW

120BRW

122BRW

124BRW

116BRT

118BRT

120BRT

122BRT

124BRT

116BRE

118BRE

120BRE

122BRE

124BRE

BRAUN ROAD

GUY

3006FC2A

3006FC2B

FC1 AND FC3 TO REMAIN OPEN UNTIL 12/1/18. AFTER 12/1/18 TWO ACCESS LOCATIONS TO REMAIN OPEN AT ALL TIMES THROUGHOUT CONSTRUCTION. TO BE DIRECTED BY ENGINEER IN FIELD.

CONSTRUCTION BY OTHERS

ACCESS FC2

3004FC2A

3004FC2B

EXISTING ℄

2' 12' 12' 11'

TEMP WIDENING

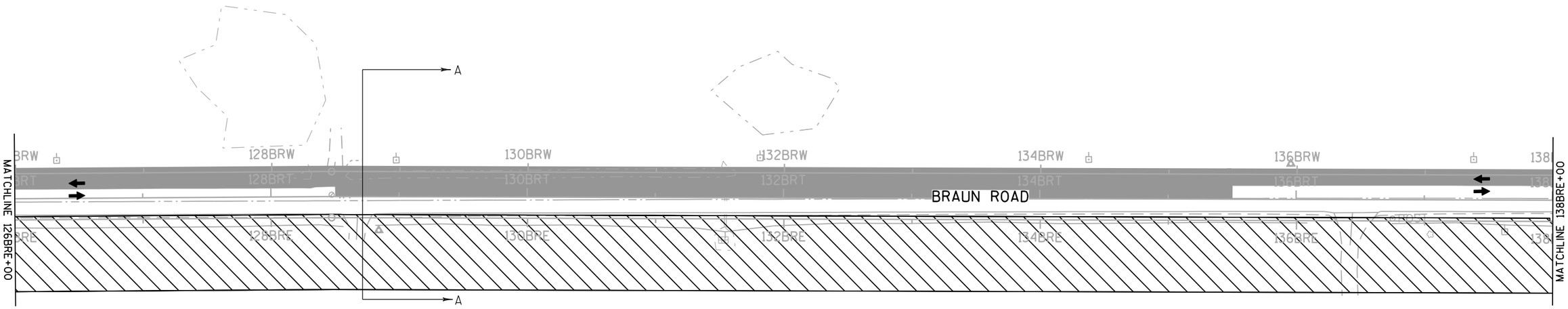
SECTION A-A

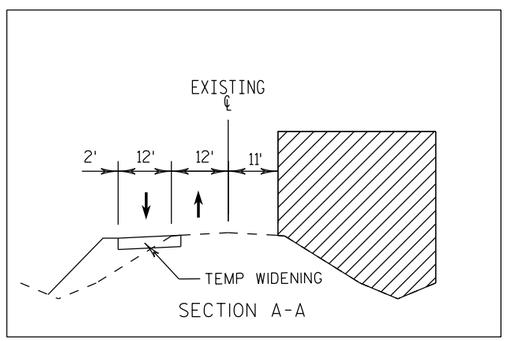
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1C	SHEET 236	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_270409001Braun\t15.26.2268227.12.28.dgn PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

2

N





PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1C	SHEET 237	E

2

2

N

6002N5A

6002N5B

ACCESS N5

A

140BRW

142BRW

144BRW

146BRW

148BRW

150

140BRT

142BRT

144BRT

146BRT

148BRT

MATCHLINE 138BRE+00

140BRE

142BRE

144BRE

146BRE

148BRE

150

MATCHLINE 150BRE+00

BRAUN ROAD

POST

MH

5004FC3A

5004FC3B

T4 148BRE+92.15, 10.00' LT
INLET 1G-MS

T3 150BRE+00.00, 10.00' LT
INLET 1G-MS

A

FC1 AND FC3 TO REMAIN OPEN UNTIL 12/1/18. AFTER 12/1/18 TWO ACCESS LOCATIONS TO REMAIN OPEN AT ALL TIMES THROUGHOUT CONSTRUCTION. TO BE DIRECTED BY ENGINEER IN FIELD.

CONSTRUCTION BY OTHERS

5002FC3A

5002FC3B

ACCESS FC3

POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

EXISTING

℄

2' 12' 12' 15'

TEMP WIDENING

SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1C	SHEET 238	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBraun\t15_26_20230323_12_58_PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2

N

ROAD CLOSED AHEAD
W20-3
BRAUN RD
900

ROAD CLOSED TO THRU TRAFFIC
R11-4
60" X 30"

POST

A

MATCHLINE 150BRE+00

152BRW 154BRW 156BRW 158BRW 160BRW 162BRW

152BRT 154BRT

BRAUN ROAD

152BRE 154BRE 156BRE 158BRE 160BRE 162BRE

GUY

MH

SEE TRAFFIC CONTROL CONSTRUCTION DETAIL FOR TEMPORARY TIE IN

COORDINATE TEMPORARY TRAFFIC SIGNAL MODIFICATIONS WITH CONTRACTOR FOR I.D. 2818-00-73

POND CONSTRUCTED BY OTHERS PRIOR TO CONTRACT 2704-09-70

AG

ROAD CLOSED AHEAD
W20-3
BRAUN RD
900

EXISTING ℄

2' 12' 12'

TEMP WIDENING

SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1C	SHEET 239	E

2

2

N

BRAUN RD

KILBOURN ROAD DITCH

N3

N4

N5

FC1

FC2

FC3

CTH H

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

PROJECT NO:2704-09-70	HWY:BRAUN ROAD	COUNTY:RACINE	TRAFFIC CONTROL STAGE 2 OVERVIEW MAP	SHEET 240	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD1\[redacted]\Stage2_Overview_SE.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 889.795:1

WISDOT/CADDS SHEET 42

2

2

N

A

A

BRAUN ROAD

42BRE

44BRE

46BRE

48BRE

50BRE

52BRE

46BFW

48BFW

50BFW

52BFW

GUY

POST

SEPTIC

MP

2714WFRC

2714WFRD

2712WFRC

2712WFRD

3714EFRC

3714EFRD

3712EFRC

3712EFRD

4710WFRA

4710WFRB

4708WFRA

4708WFRB

5710EFRA

5710EFRB

5708EFRA

5708EFRB

ROAD CLOSED AHEAD
W20-3
BRAUN RD
900

ROAD CLOSED TO THRU TRAFFIC
R11-4
60" X 30"

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

MATCHLINE 54BRE+00

EXISTING
℄
2' 10' 10' 2'
SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2A	SHEET 240a	E

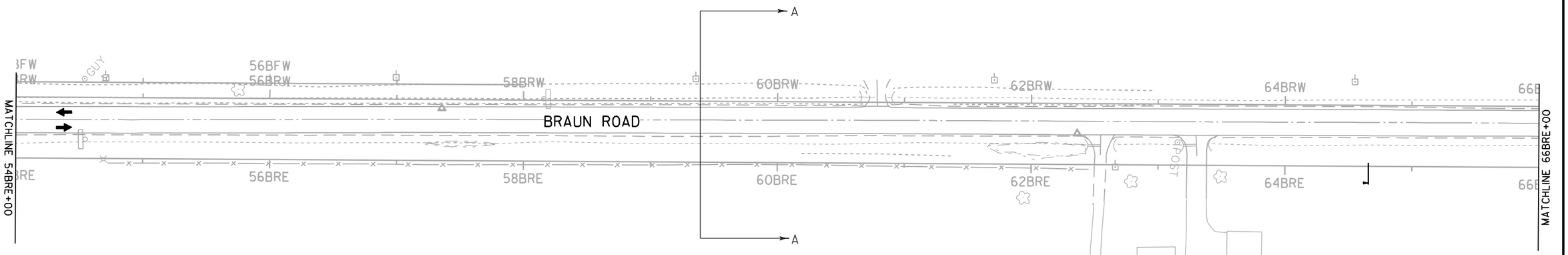
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WISDOT/CADDS SHEET 42

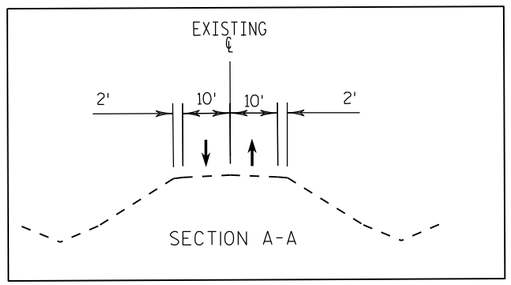
2

N

A



A



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2A	SHEET 241	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun_t15.dgn 5/26/2026 2:35:32 PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2

N

CONSTRUCTION
ID: 2704-09-70

CONSTRUCTION
ID: 2704-00-76

A

BRAUN ROAD

MATCHLINE 66BRE+00

MATCHLINE 78BRE+00

68BRW

70BRW

72BRW

74BRW

76BRW

POST

68BRE

70BRE

72BRE

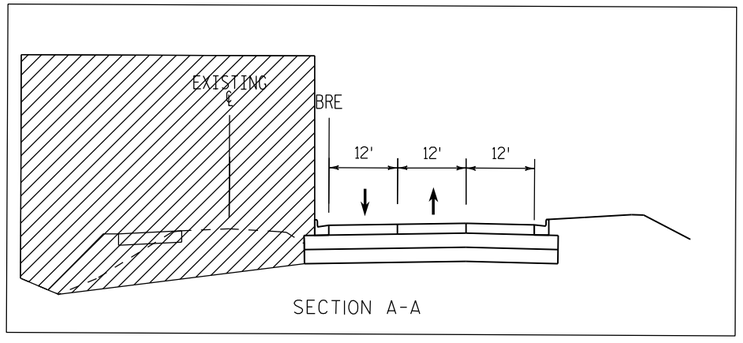
74BRE

76BRE

49

DOUBLE
45

A



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2A	SHEET 242	E

2

N

A

MATCHLINE 78BRE+00

MATCHLINE 90BRE+00

BRAUN ROAD

80BRW 82BRW 84BRW 86BRW 88BRW

80BRE 82BRE 84BRE 86BRE 88BRE

80+00.31
0.00

80+00.31
12.00' RT

80+00.31
24.00' RT

82+45.31
12.00' RT

82+45.31
24.00' RT

82+45.31
36.00' RT

DOUBLE
45

49

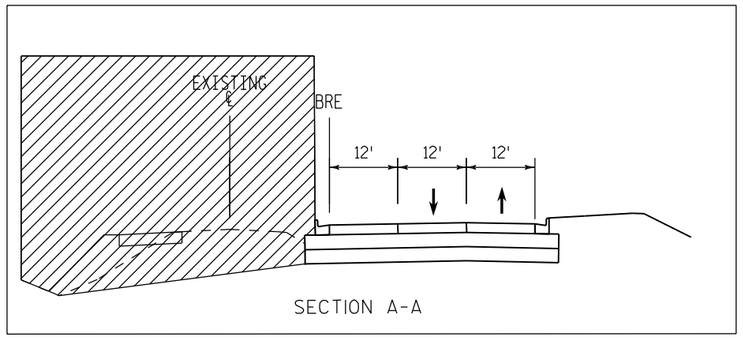
POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

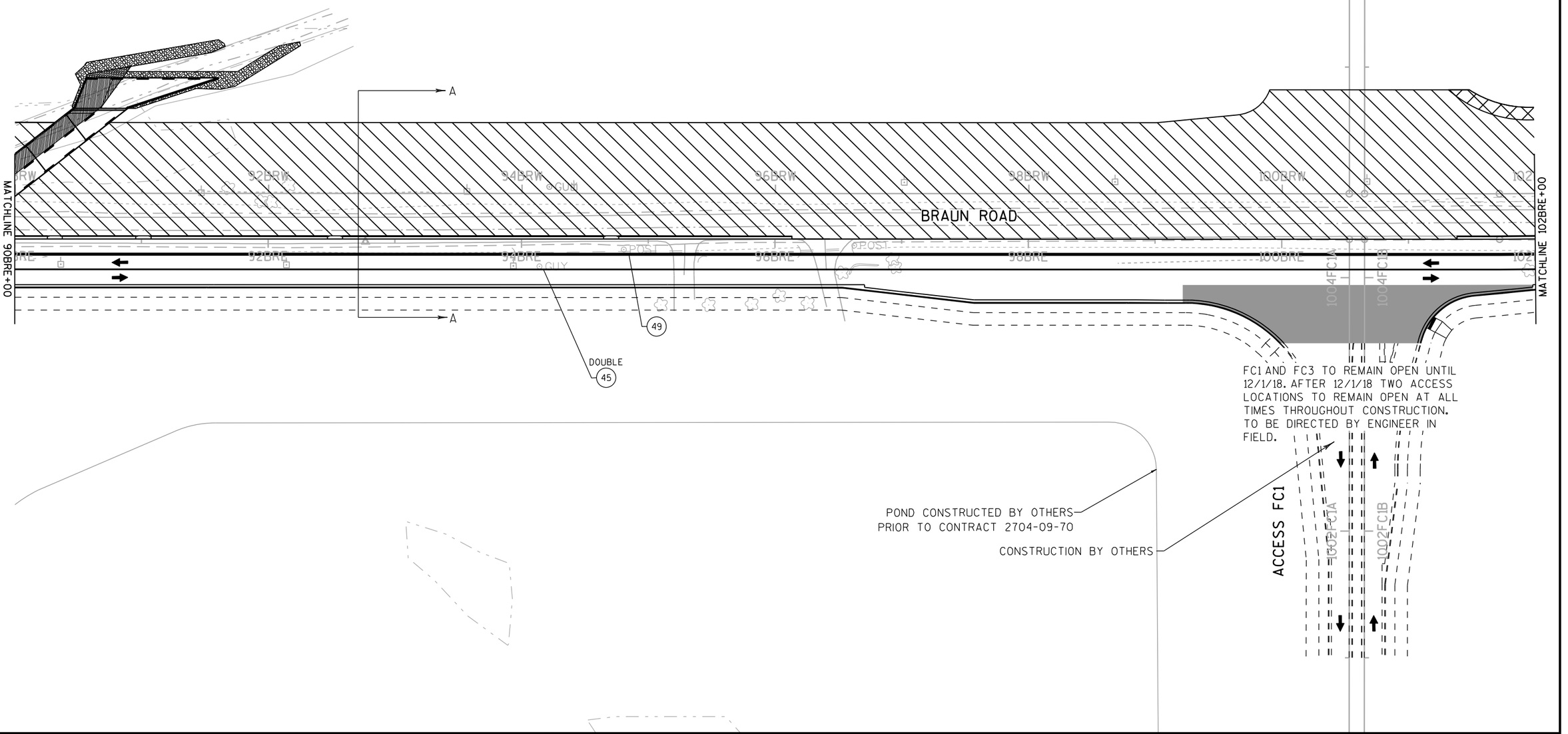
EXISTING
℄
BRE
12' 12' 12'

SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2A	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040970TBRAUN\14.26.2658 Sheet.dgn PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 80:1





PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2A	SHEET 244	E

2

N

A

MATCHLINE 102BRE+00

MATCHLINE 114BRE+00

BRAUN ROAD

102BRE

104BRE

106BRE

108BRE

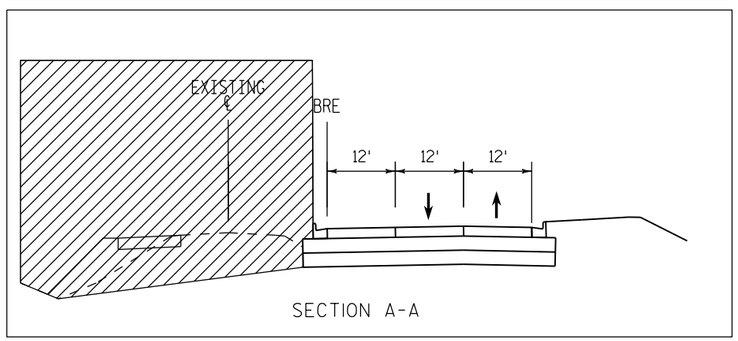
110BRE

112BRE

49

DOUBLE
45

A



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2A	SHEET 245	E

2

2

N

ACCESS N4

4002N4A

4002N4B

A

R/L BRAUN ROAD WB

BRAUN ROAD

MATCHLINE 114BRE+00

MATCHLINE 126BRE+00

116BRW

118BRW

120BRW

122BRW

124BRW

116BRE

118BRE

120BRE

122BRE

124BRE

GUY

POST

49

DOUBLE

45

FC1 AND FC3 TO REMAIN OPEN UNTIL 12/1/18. AFTER 12/1/18 TWO ACCESS LOCATIONS TO REMAIN OPEN AT ALL TIMES THROUGHOUT CONSTRUCTION. TO BE DIRECTED BY ENGINEER IN FIELD.

STOP

R1-1

30" X 30"

STOP

R1-1

30" X 30"

CONSTRUCTION BY OTHERS

ACCESS FC2

3003FC2A

3004FC2B

3005FC2A

3006FC2B

EXISTING ℄

BRE

12'

12'

12'

SECTION A-A

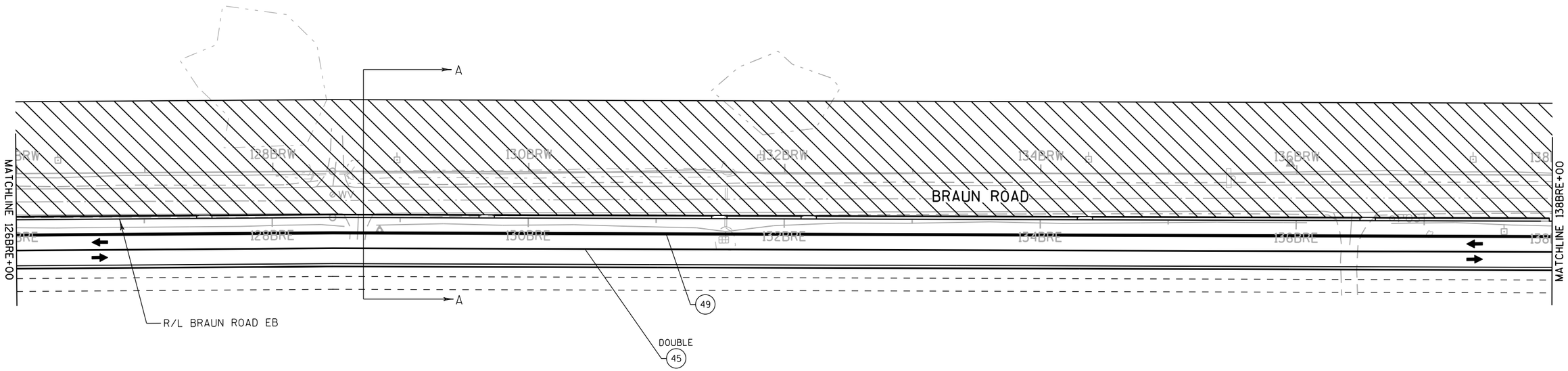
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2A	SHEET 246	E

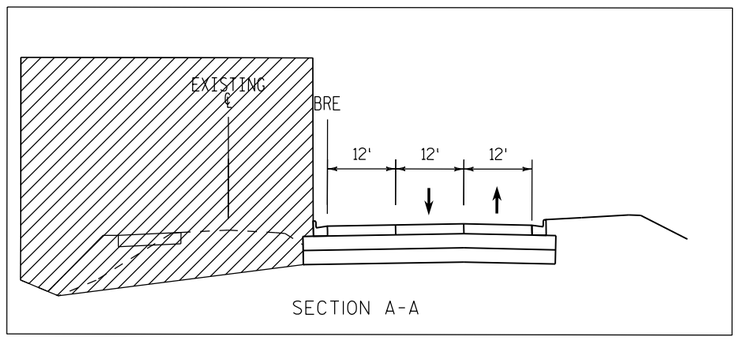
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TRBRAUN_15cs_20180327_TC.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2

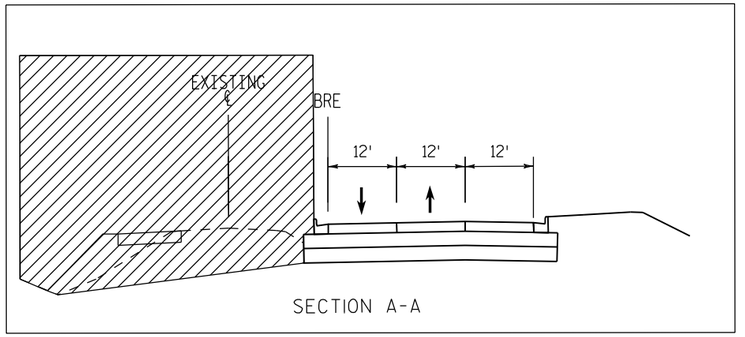
N





PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2A	SHEET 247	E

2



SECTION A-A

N

ACCESS N5

6002N5A

6002N5B

ROAD CLOSED
R11-2
48" X 30"

A

BRAUN ROAD

MATCHLINE 138BRE+00

MATCHLINE 150BRE+00

140BRW 142BRW 144BRW 146BRW 148BRW 150

140BRE 142BRE 144BRE 146BRE 148BRE 150

5004FC3A

5004FC3B

MH

146+19.04
12.00' RT

146+19.04
24.00' RT

146+19.04
36.00' RT

DOUBLE
45

49

49

148+64.04
0.00

148+64.04
12.00' RT

148+64.04
24.00' RT

149+84.06
0.00

149+84.06
12.00' RT

149+84.06
24.00' RT

STOP
R1-1
30" X 30"

STOP
R1-1
30" X 30"

FC1 AND FC3 TO REMAIN OPEN UNTIL 12/1/18. AFTER 12/1/18 TWO ACCESS LOCATIONS TO REMAIN OPEN AT ALL TIMES THROUGHOUT CONSTRUCTION. TO BE DIRECTED BY ENGINEER IN FIELD.

CONSTRUCTION BY OTHERS

5002FC3A

5002FC3B

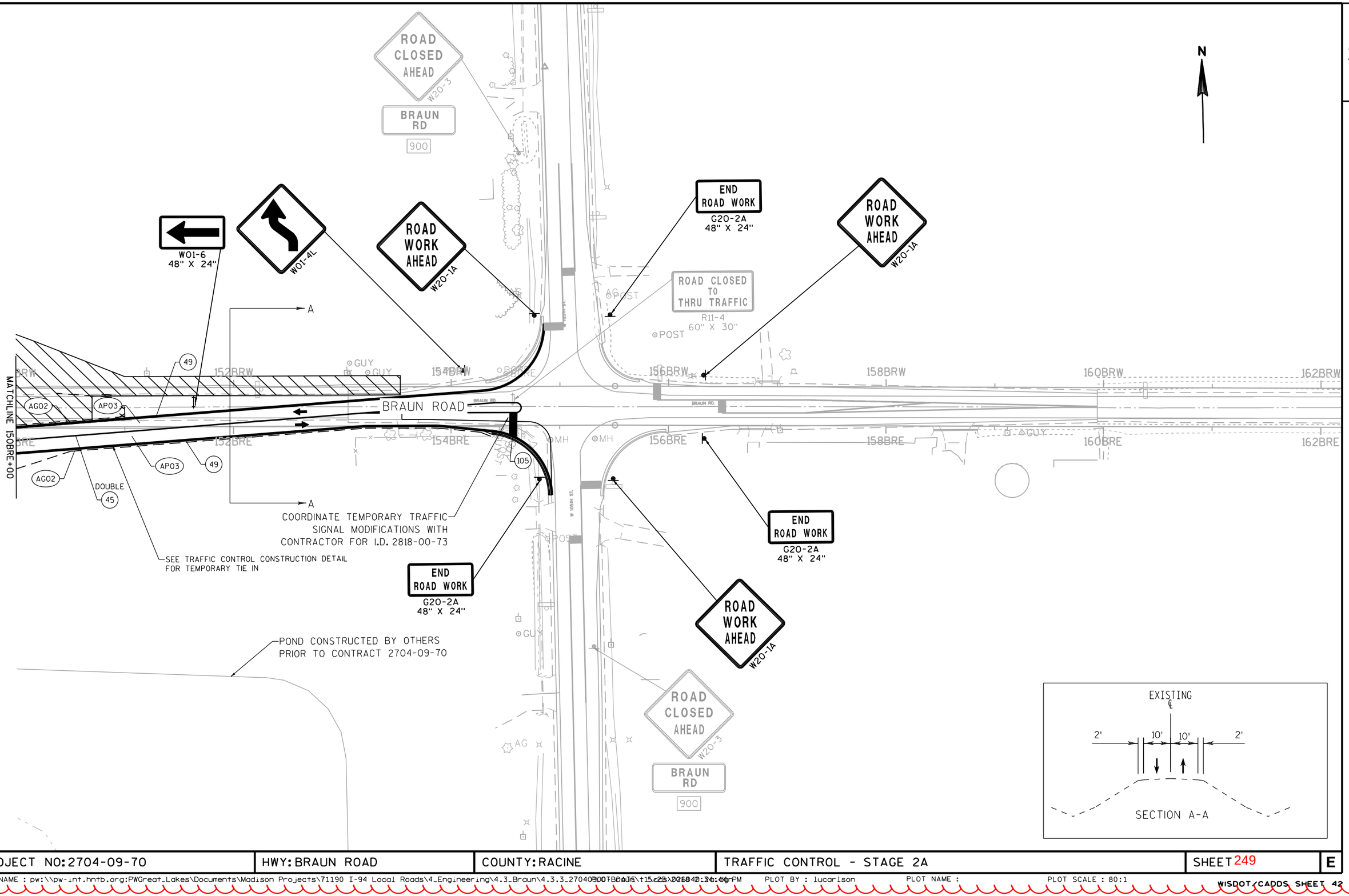
ACCESS FC3

POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2A	SHEET 248	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_270409070_BRAUN_TC_STG2A.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

2



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2A	SHEET 249	E

2

2

N

2714WFRC

2714WFRD

3714EFRC

3714EFRD

ROAD CLOSED AHEAD W20-3

BRAUN RD 900

3712EFRC

3712EFRD

2712WFRC

2712WFRD

SEPTIC

GUY

POST

GUY

46BFW

GUY

48BFW

50BFW

52BFW

POST

54E

54

A

BRAUN ROAD

42BRE

44BRE

46BRE

48BRE

50BRE

MP

ROAD CLOSED TO THRU TRAFFIC R11-4 60" X 30"

52BRE

POST

54

MATCHLINE 54BRE+00

A

4710WFRA

4710WFRB

WEST FRONTAGE ROAD

5710EFRA

5710EFRB

EAST FRONTAGE ROAD

ROAD CLOSED AHEAD W20-3

BRAUN RD 900

4708WFRA

4708WFRB

5708EFRA

5708EFRB

EXISTING

℄

2'

10'

10'

2'

SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2B	SHEET 249a	E

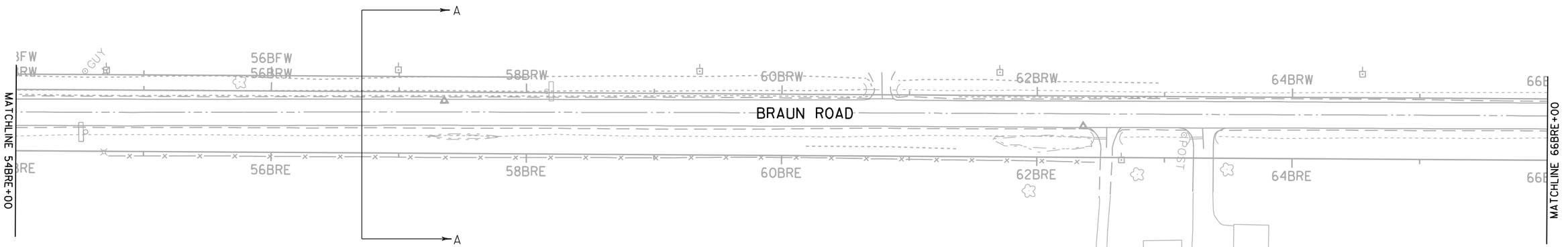
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun\t15.26.2258 2:36:56 PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

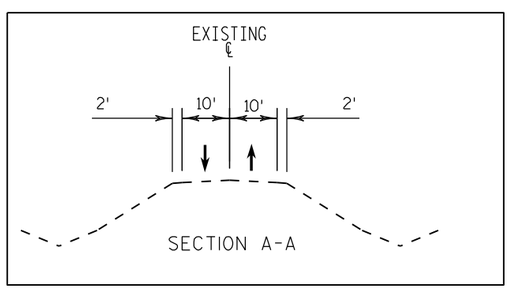
2

N

A



A



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2B	SHEET 250	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_270409TCBraun_t15.dgn 2025 02:35:05 PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2

N

CONSTRUCTION
ID: 2704-09-70

CONSTRUCTION
ID: 2704-00-76

A

BRAUN ROAD

MATCHLINE 66BRE+00

MATCHLINE 78BRE+00

68BRW

70BRW

72BRW

74BRW

76BRW

POST

68BRE

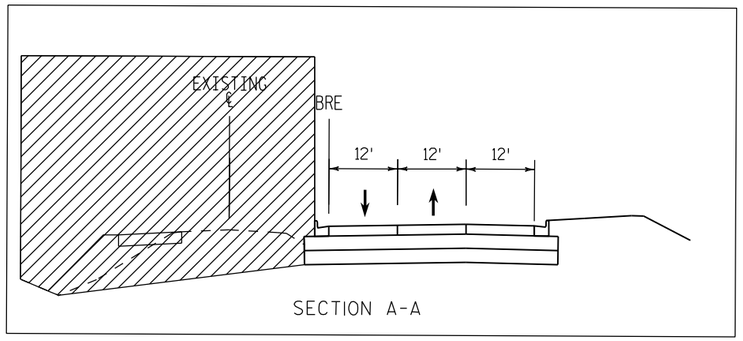
70BRE

72BRE

74BRE

76BRE

A



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2B	SHEET 251	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TRAFFIC\t15_26x36842_35_13.dgn PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2

2

N

A

A

MATCHLINE 78BRE+00

MATCHLINE 90BRE+00

BRAUN ROAD

80BRW

82BRW

84BRW

86BRW

88BRW

80BRE

82BRE

84BRE

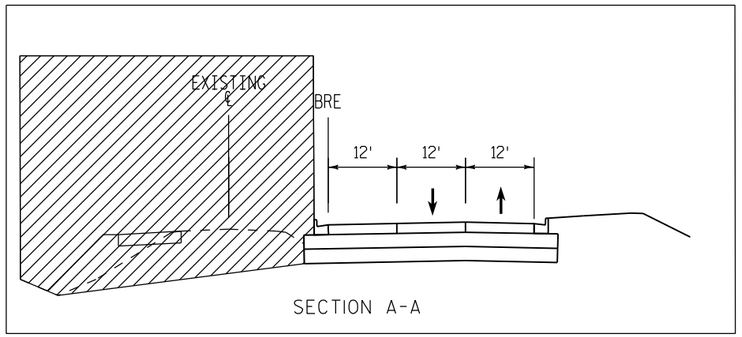
86BRE

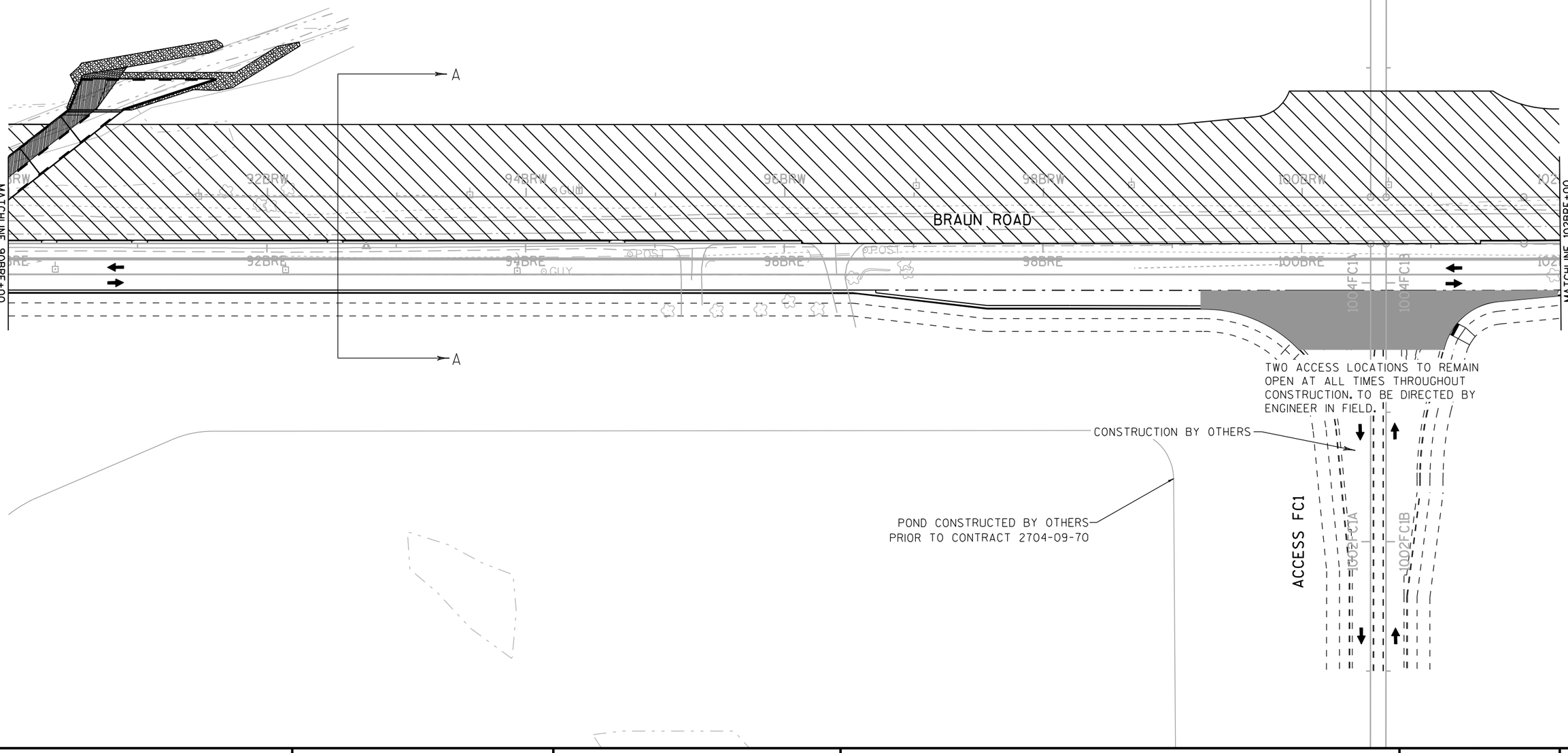
88BRE

POST

POST

POST





PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2B	SHEET 253	E

2

N

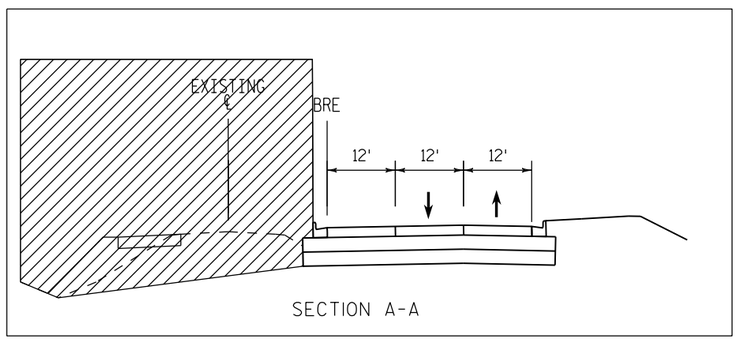
A

MATCHLINE 102BRE+00

BRAUN ROAD

MATCHLINE 114BRE+00

A



SECTION A-A

PROJECT NO:2704-09-70	HWY:BRAUN ROAD	COUNTY:RACINE	TRAFFIC CONTROL - STAGE 2B	SHEET 254	E

2

2

N

ACCESS N4

4002N4A

4002N4B

CONSTRUCTION BY OTHERS

A

A

BRAUN ROAD

MATCHLINE 114BRE+00

MATCHLINE 126BRE+00

116BRW

118BRW

120BRW

122BRW

124BRW

114BRE

116BRE

118BRE

120BRE

122BRE

124BRE

GUY

POST

TWO ACCESS LOCATIONS TO REMAIN OPEN AT ALL TIMES THROUGHOUT CONSTRUCTION. TO BE DIRECTED BY ENGINEER IN FIELD.

STOP

R1-1

30" X 30"

STOP

R1-1

30" X 30"

ACCESS FC2

3004FC2A

3004FC2B

CONSTRUCTION BY OTHERS

EXISTING ℄

BRE

12'

12'

12'

SECTION A-A

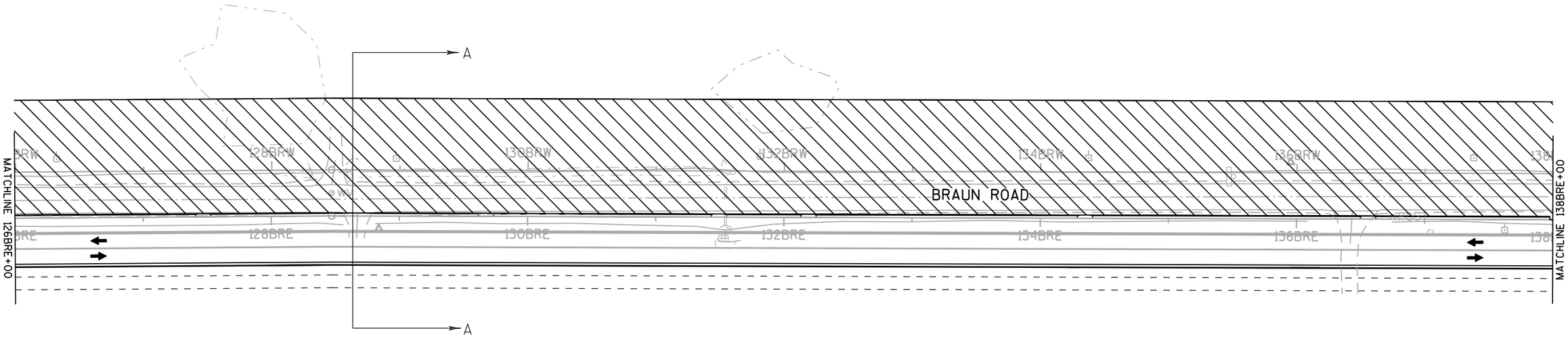
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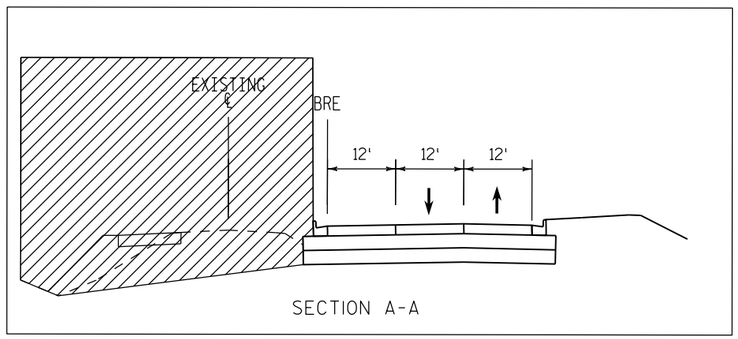
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun_t15.26x22.dgn 15 Oct 2018 12:35:58pm PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2

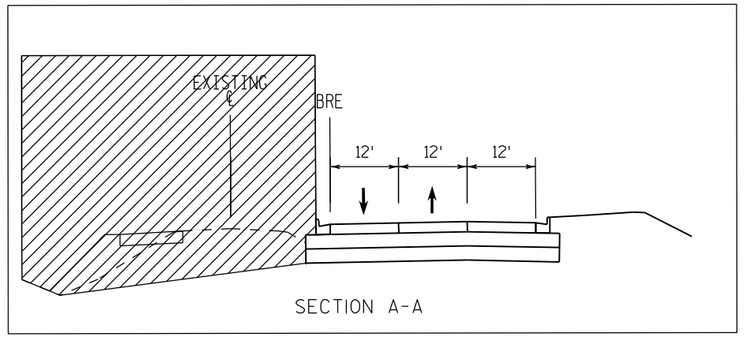
N





PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2B	SHEET 256	E

2



N

ACCESS N5

6002N5A

6002N5B

CONSTRUCTION BY OTHERS

ROAD CLOSED
R11-2
48" X 30"

A

MATCHLINE 138BRE+00

140BRW

142BRW

144BRW

146BRW

148BRW

150

BRAUN ROAD

140BRE

142BRE

144BRE

146BRE

148BRE

150

MATCHLINE 150BRE+00

5004FC3A

5004FC3B

STOP
R1-1
30" X 30"

TWO ACCESS LOCATIONS TO REMAIN OPEN AT ALL TIMES THROUGHOUT CONSTRUCTION. TO BE DIRECTED BY ENGINEER IN FIELD.

STOP
R1-1
30" X 30"

CONSTRUCTION BY OTHERS

5002FC3A

5002FC3B

ACCESS FC3

POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2B	SHEET 257	E

2

N

ROAD CLOSED AHEAD
W20-3
BRAUN RD
900

W01-6
48" X 24"

W01-4L

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1A

ROAD CLOSED TO THRU TRAFFIC
R11-4
60" X 30"

POST

A

MATCHLINE 150BRE+00

152BRW 154BRW 156BRW 158BRW 160BRW 162BRW

BRAUN ROAD

152BRE 154BRE 156BRE 158BRE 160BRE 162BRE

GUY

MH

105

A

COORDINATE TEMPORARY TRAFFIC SIGNAL MODIFICATIONS WITH CONTRACTOR FOR I.D. 2818-00-73

END ROAD WORK
G20-2A
48" X 24"

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1A

POND CONSTRUCTED BY OTHERS PRIOR TO CONTRACT 2704-09-70

ROAD CLOSED AHEAD
W20-3

BRAUN RD
900

AG

EXISTING

2' 10' 10' 2'

SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2B	SHEET 258	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun\t15.28.26852.26.20rPM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

2

2

N

BRAUN RD

KILBOURN ROAD DITCH

N3

N4

N5

FC1

FC2

FC3

CTH H

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

PROJECT NO:2704-09-70	HWY:BRAUN ROAD	COUNTY:RACINE	TRAFFIC CONTROL STAGE 3 OVERVIEW MAP	SHEET 259	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 889.795:1

WISDOT/CADDS SHEET 42

2

2

N

ACCESS N4

CONSTRUCTION BY OTHERS

A

112BRW 114BRW 116BRW 118BRW 120BRW 122BRW 124BRW

BRAUN ROAD

112BRE 114BRE 116BRE 118BRE 120BRE 122BRE 124BRE

4002N4A

4002N4B

3006FC2A

3005FC2B

TWO ACCESS LOCATIONS TO REMAIN OPEN AT ALL TIMES THROUGHOUT CONSTRUCTION. TO BE DIRECTED BY ENGINEER IN FIELD.

CONSTRUCTION BY OTHERS

STOP
R1-1
30" X 30"

STOP
R1-1
30" X 30"

ACCESS FC2

3004FC2A

3004FC2B

A

BRW BRE

12' 12' 12' 12' 12' 12'

SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 3A	SHEET 260	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TRAFFIC\t15c26268536.dgn PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2

2

N

ACCESS N5

6002N5A

6002N5B

CONSTRUCTION BY OTHERS

A

132BRW

134BRW

136BRW

138BRW

140BRW

142BRW

144BRW

BRAUN ROAD

132BRE

134BRE

136BRE

138BRE

140BRE

142BRE

144BRE

50'
(TYP)

25'
(TYP)

6002FC3A

6002FC3B

A

TWO ACCESS LOCATIONS TO REMAIN OPEN AT ALL TIMES THROUGHOUT CONSTRUCTION. TO BE DIRECTED BY ENGINEER IN FIELD.

CONSTRUCTION BY OTHERS

ACCESS FC3

6002FC3A

6002FC3B

BRW

BRE

12'

12'

12'

12'

12'

12'

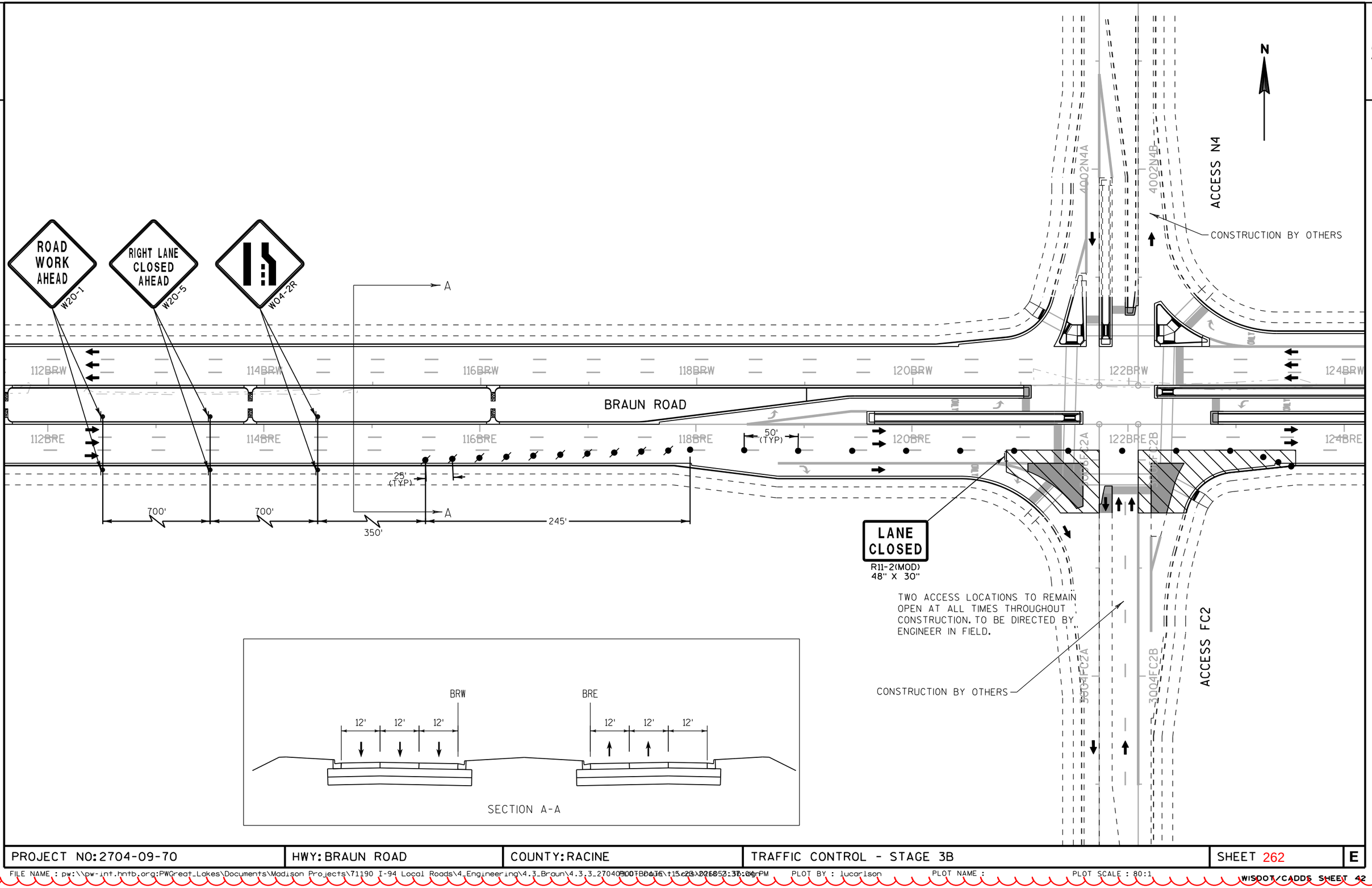
SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 3A	SHEET 261	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TRBraun_t15.28.2025 2:36:58 PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 3B	SHEET 262	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_270409TCBraun\t15c26v260853.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1 WISDOT/CADDS SHEET 42

2

2

N

ACCESS N5

6002N5A

6002N5B

CONSTRUCTION BY OTHERS

A

132BRW

134BRW

136BRW

138BRW

140BRW

142BRW

144BRW

BRAUN ROAD

132BRE

134BRE

136BRE

138BRE

140BRE

142BRE

144BRE

5004FC3A

5004FC3B

TWO ACCESS LOCATIONS TO REMAIN OPEN AT ALL TIMES THROUGHOUT CONSTRUCTION. TO BE DIRECTED BY ENGINEER IN FIELD.

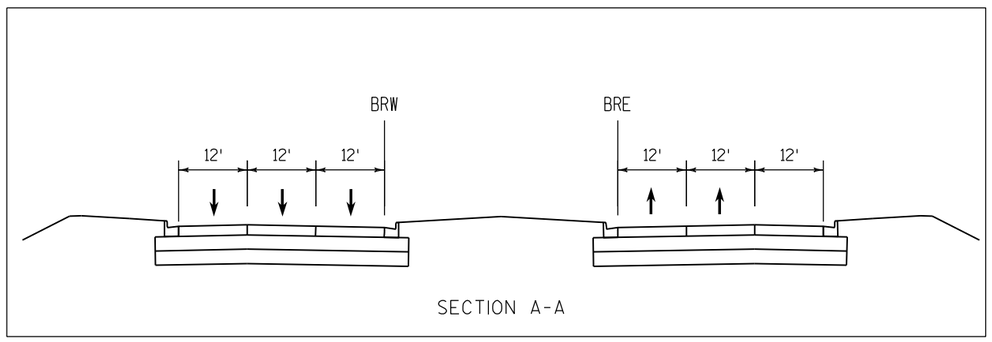
CONSTRUCTION BY OTHERS

5002FC3A

5002FC3B

ACCESS FC3

A



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 3B	SHEET 263	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun\15_26x36Braun_15_26x36.dgn PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2

2

N

ACCESS N4

CONSTRUCTION BY OTHERS

A

112BRW 114BRW 116BRW 118BRW 120BRW 122BRW 124BRW

BRAUN ROAD

112BRE 114BRE 116BRE 118BRE 120BRE 122BRE 124BRE

4002N4A

4002N4B

3004FC2A

3004FC2B

A

TWO ACCESS LOCATIONS TO REMAIN OPEN AT ALL TIMES THROUGHOUT CONSTRUCTION. TO BE DIRECTED BY ENGINEER IN FIELD.

CONSTRUCTION BY OTHERS

ACCESS FC2

BRW

BRE

12' 12' 12'

12' 12' 12'

SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 3C	SHEET 264	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_270409TCP_Braun\t15c26x26853.37.22.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2

2

N

ACCESS N5

6002N5A

6002N5B

CONSTRUCTION BY OTHERS

A

132BRW

134BRW

136BRW

138BRW

140BRW

142BRW

144BRW

BRAUN ROAD

132BRE

134BRE

136BRE

138BRE

140BRE

142BRE

144BRE

6004FC3A

6004FC3B

A

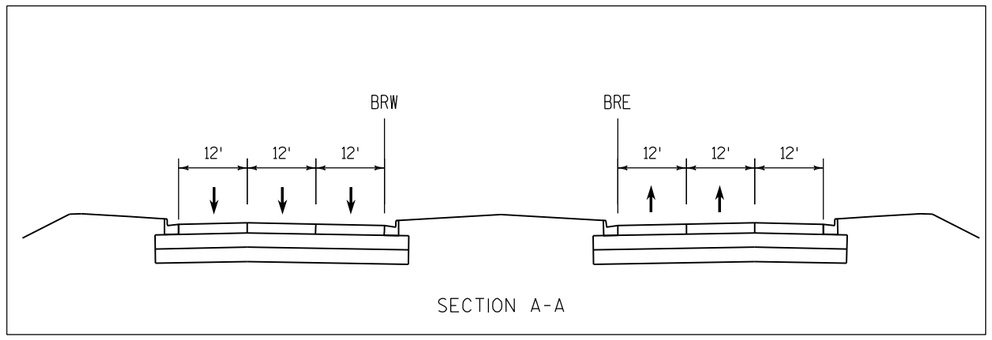
TWO ACCESS LOCATIONS TO REMAIN OPEN AT ALL TIMES THROUGHOUT CONSTRUCTION. TO BE DIRECTED BY ENGINEER IN FIELD.

CONSTRUCTION BY OTHERS

ACCESS FC3

6002FC3A

6002FC3B



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 3C	SHEET 265	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun\t15_26x36853_3C.dgn PM PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 80:1

WISDOT/CADDS SHEET 42

2

2

N

BRAUN ROAD

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

CONSTRUCTION ID: 1030-24-79 | CONSTRUCTION ID: 2704-00-76

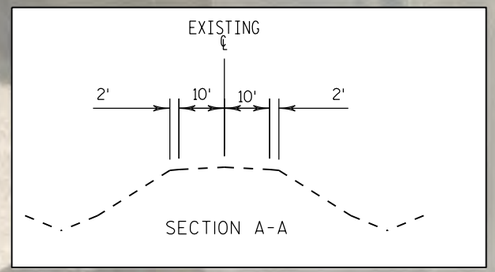
CONSTRUCTION ID: 2704-09-70

CONSTRUCTION ID: 2704-00-76

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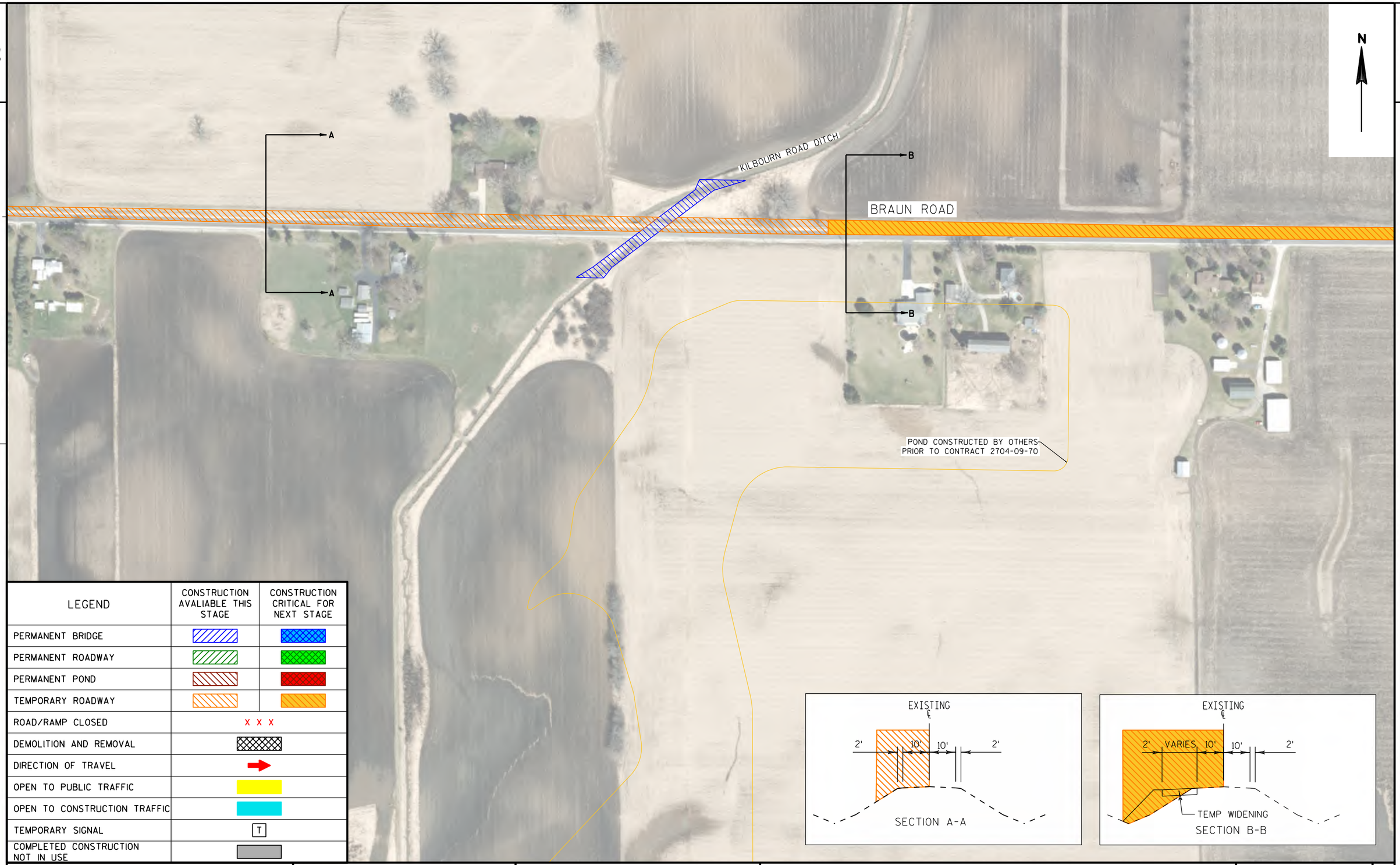
LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 1A	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\TSP\Stage1\2704-09-70_TSP_Stage1_Plan-01.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42



LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 1A	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Col0TSD4JEng\d0241216_P135152eM0-02.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 200:1

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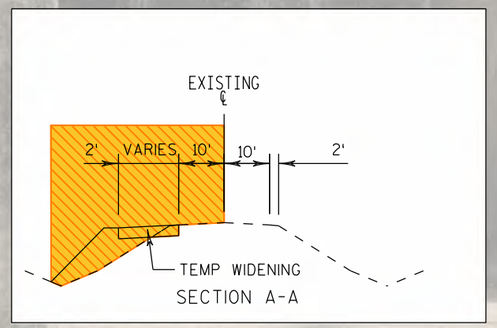
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A

A

BRAUN ROAD

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 1A	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\TSP\Stage1\ex-STAGE1A-Plan-03.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 200:1

2

2

N

A

A

BRAUN ROAD

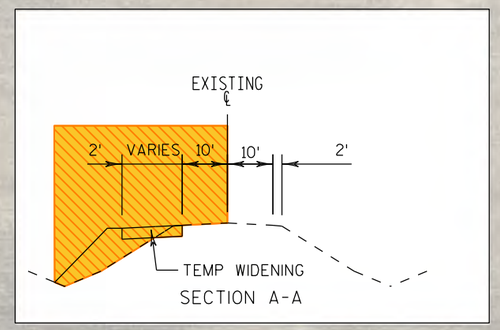
CTH H

CONSTRUCTION
ID: 2704-09-70

CONSTRUCTION
ID: 1320-23-70

POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 1A	SHEET 269	E

2

2

N

BRAUN ROAD

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

CONSTRUCTION ID: 1030-24-79 | CONSTRUCTION ID: 2704-00-76

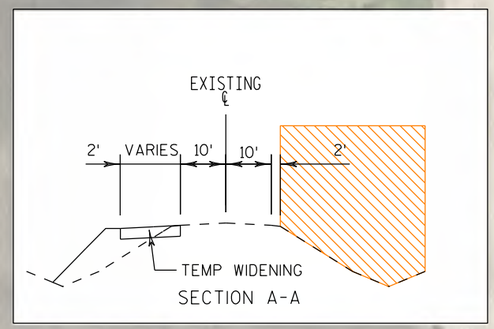
CONSTRUCTION ID: 2704-09-70

CONSTRUCTION ID: 2704-00-76

A

A

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 1B	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Col0TSBuild\ed2A2016_P14Stage2Nb-01.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

2

N

A

A

B

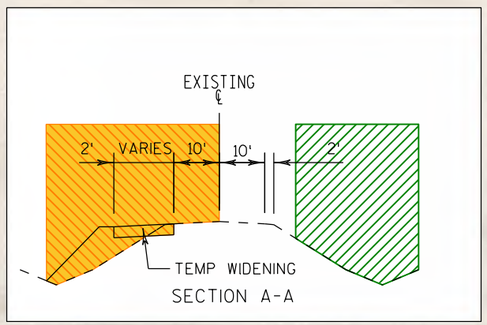
B

KILBOURN ROAD DITCH

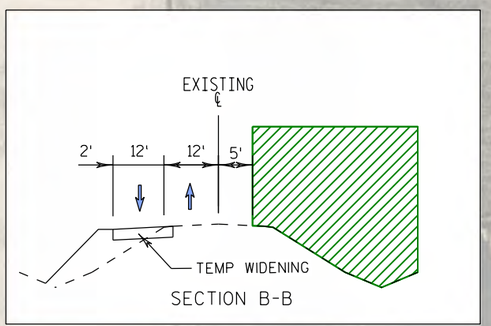
BRAUN ROAD

POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



SECTION A-A



SECTION B-B

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 1B	SHEET 271	E

2

2

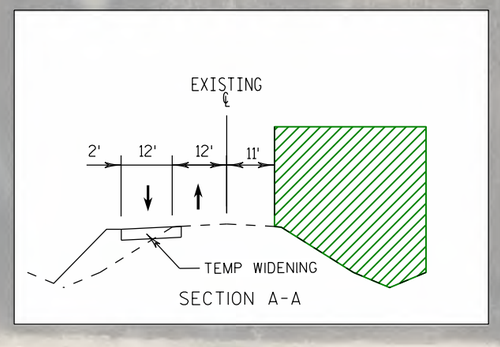
N

A

A

BRAUN ROAD

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 1B	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\TSB_1Eng\ex_BRAUN_Plan_Page_Nb-03.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

2

N

CTH H

BRAUN ROAD

A

A

B

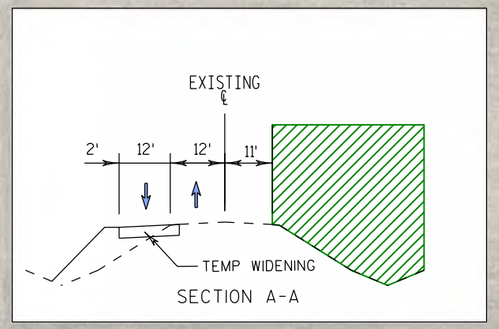
B

CONSTRUCTION
ID: 2704-09-70

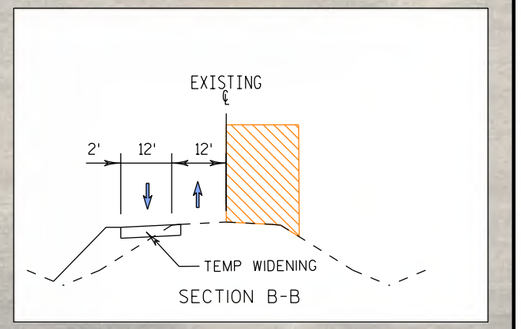
CONSTRUCTION
ID: 1320-23-70

POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



SECTION A-A



SECTION B-B

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 1B	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Col_STSDetEng\Stage2\2704-09-70_Stage2Alt-04.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

2

N

CONSTRUCTION ID: 1030-24-79 | CONSTRUCTION ID: 2704-00-76

CONSTRUCTION ID: 2704-09-70

CONSTRUCTION ID: 2704-00-76

BRAUN ROAD

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

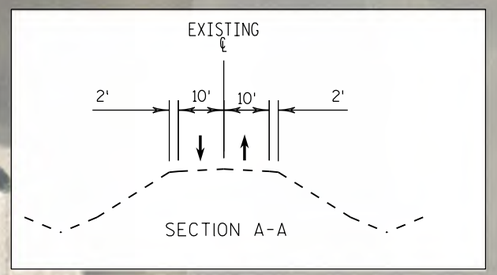
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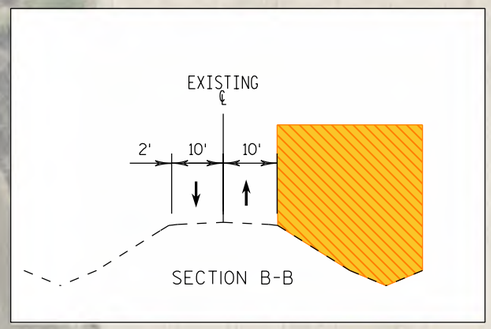
A

B

B

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		





PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 1C	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\TSP\Eng\c2d2216_F141_1c_2M_c-01.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

2

N

A

A

B

B

A

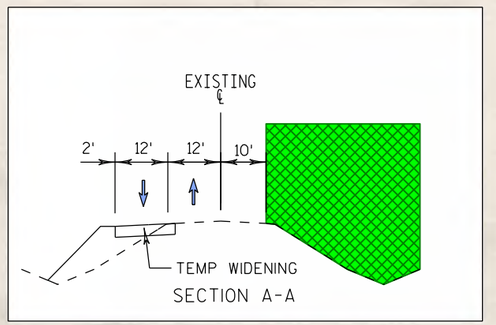
A

KILBOURN ROAD DITCH

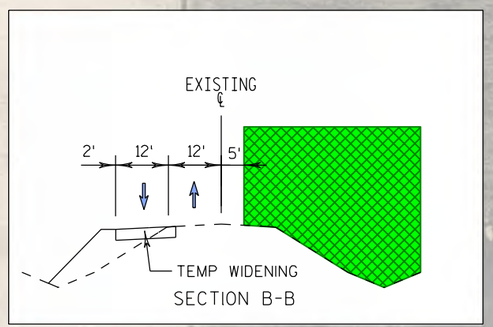
BRAUN ROAD

POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



SECTION A-A



SECTION B-B

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 1C	SHEET 275	E

2

2

N

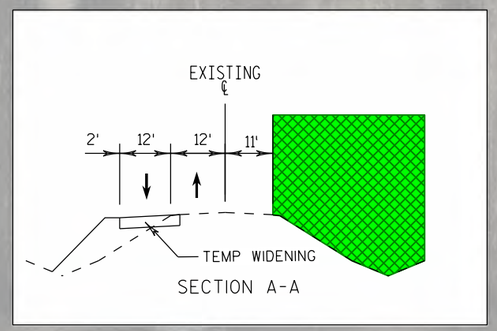
BRAUN ROAD

A

A

CONSTRUCTION BY OTHERS

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 1C	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\Sheets\Stage1C_Braun_Rd_Sht-03.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 200:1

2

2

N

CTH H

BRAUN ROAD

A

A

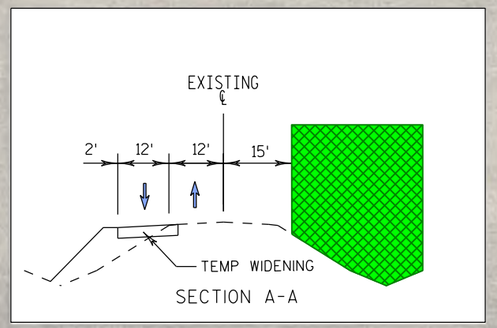
CONSTRUCTION BY OTHERS

CONSTRUCTION ID: 2704-09-70

CONSTRUCTION ID: 1320-23-70

POND CONSTRUCTED BY OTHERS PRIOR TO CONTRACT 2704-09-70

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 1C	SHEET 277	E

2

2

N

BRAUN ROAD

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

CONSTRUCTION ID: 1030-24-79 | CONSTRUCTION ID: 2704-00-76

CONSTRUCTION ID: 2704-09-70

CONSTRUCTION ID: 2704-00-76

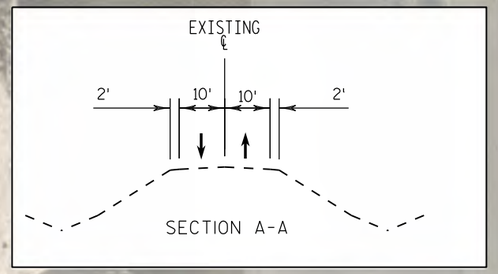
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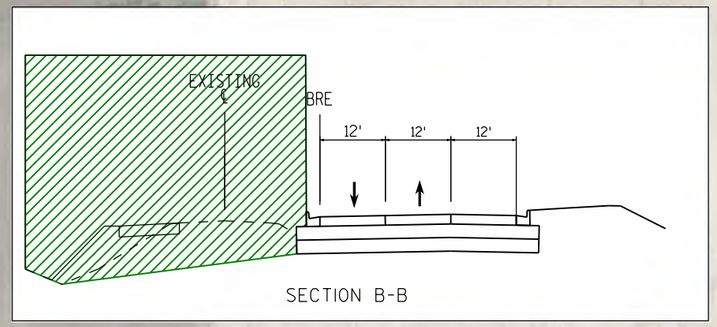
A

B

B

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		





PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 2A	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Col0TSDAIEng\c24Z2016_F141ge20a-01.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

2

N

A

A

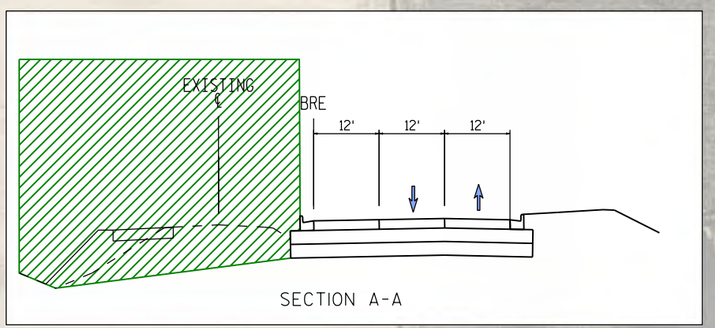
KILBOURN ROAD DITCH

BRAUN ROAD

CONSTRUCTION BY OTHERS

POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 2A	SHEET 279	E

2

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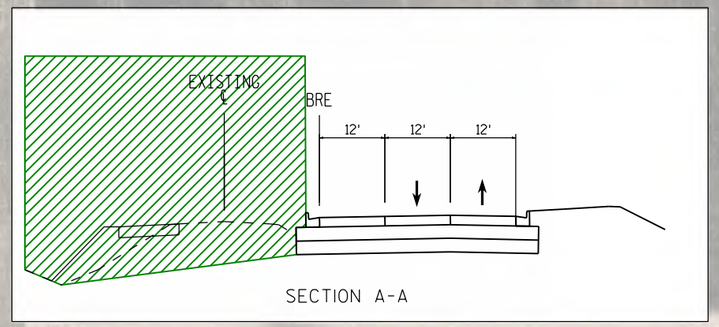
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A

BRAUN ROAD

CONSTRUCTION BY OTHERS

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 2A	SHEET 280	E

2

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CTH H

BRAUN ROAD

CONSTRUCTION ID: 2704-09-70

CONSTRUCTION ID: 1320-23-70

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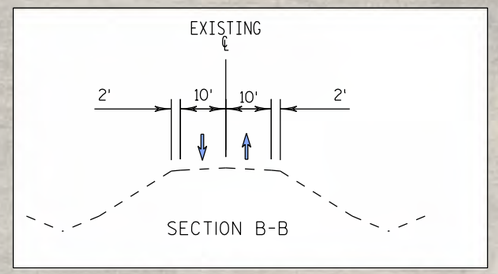
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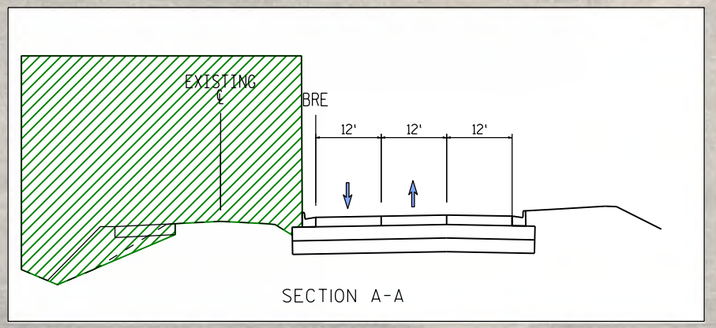
B

CONSTRUCTION BY OTHERS

POND CONSTRUCTED BY OTHERS PRIOR TO CONTRACT 2704-09-70

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		





PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 2A	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\Stage 2a\Stage 2a-04.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 200:1

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BRAUN ROAD

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

CONSTRUCTION ID: 1030-24-79 | CONSTRUCTION ID: 2704-00-76

CONSTRUCTION ID: 2704-09-70

CONSTRUCTION ID: 2704-00-76

A

A

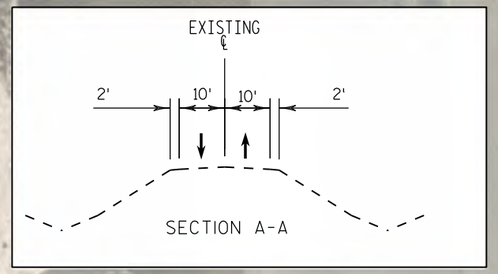
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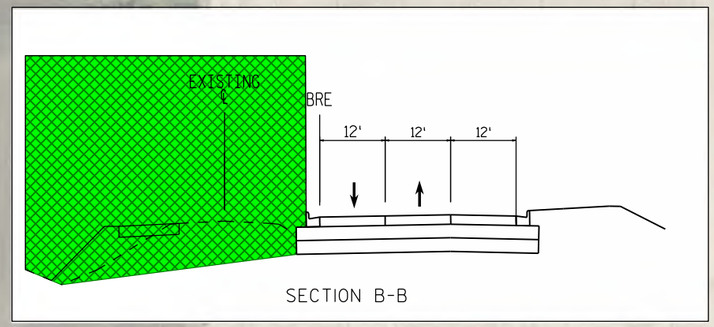
A

B

B

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
TEMPORARY BRIDGE		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		





PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 2B	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\TSD\Stage2\e2427016_Stage2b-01.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

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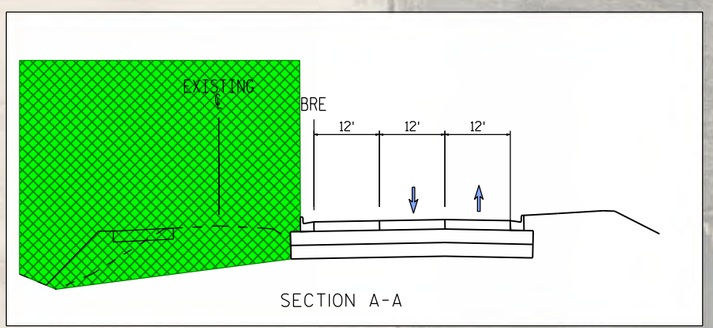
KILBOURN ROAD DITCH

BRAUN ROAD

CONSTRUCTION BY OTHERS

POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
TEMPORARY BRIDGE		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 2B	SHEET 283	E

2

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CONSTRUCTION BY OTHERS

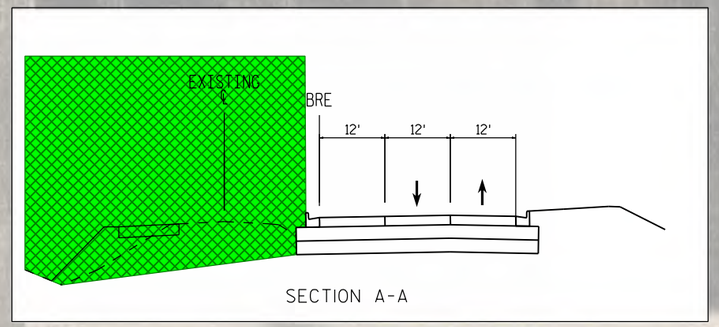
BRAUN ROAD

A

A

CONSTRUCTION BY OTHERS

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
TEMPORARY BRIDGE		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 2B	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\Stage2b\71190_Stage2b-03.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

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N

CONSTRUCTION BY OTHERS

CONSTRUCTION BY OTHERS

A

A

B

B

CTH H

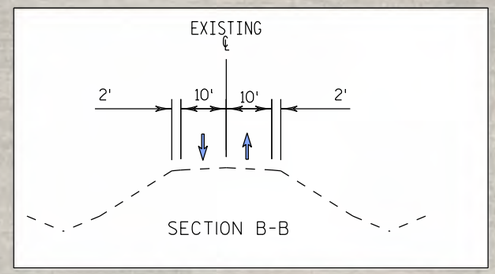
BRAUN ROAD

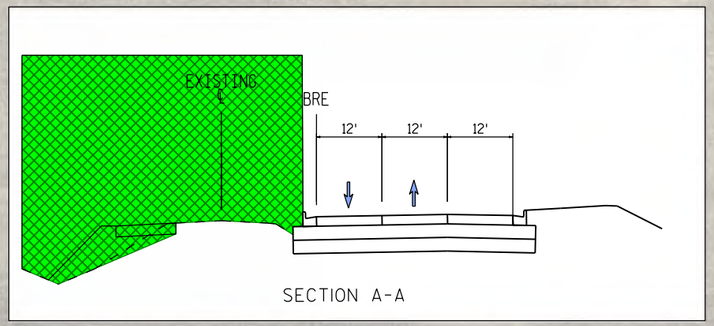
CONSTRUCTION
ID: 2704-09-70

CONSTRUCTION
ID: 1320-23-70

POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
TEMPORARY BRIDGE		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		





PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 2B	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Col07SDaiEng\ed241216_P143_Stage2b-04.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

N

BRAUN ROAD

BRAUN ROAD

N4

FC2

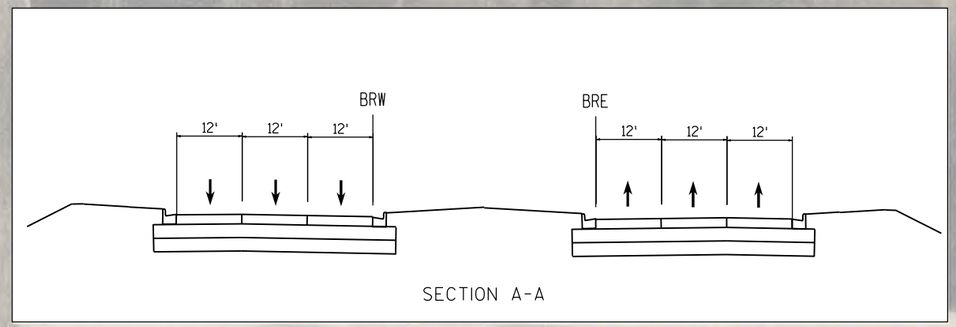
A

A

CONSTRUCTION BY OTHERS

CONSTRUCTION BY OTHERS

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 3A	SHEET 286	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\Sheet Files\2704-09-70_Stage 3A-01.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 200:1

2

N

CTH H

N5

CONSTRUCTION BY OTHERS

A

CONSTRUCTION
ID: 2704-09-70

CONSTRUCTION
ID: 1320-23-70

BRAUN ROAD

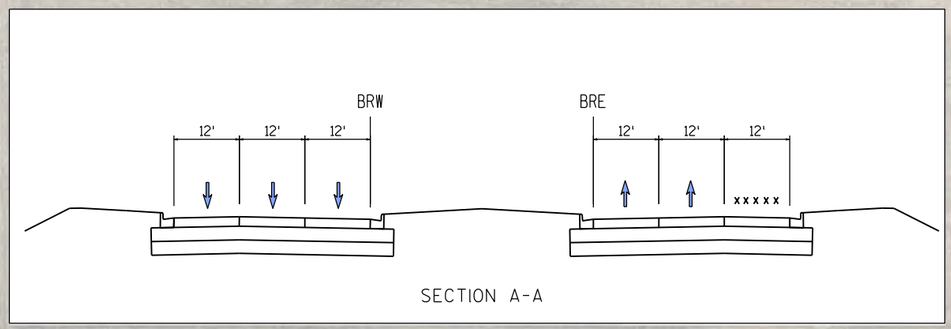
CONSTRUCTION BY OTHERS

FC3

A

POND CONSTRUCTED BY OTHERS
PRIOR TO CONTRACT 2704-09-70

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 3A	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\Stage 3A\Braun_Stage3A-02.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 200:1

2

N

BRAUN ROAD

BRAUN ROAD

N4

FC2

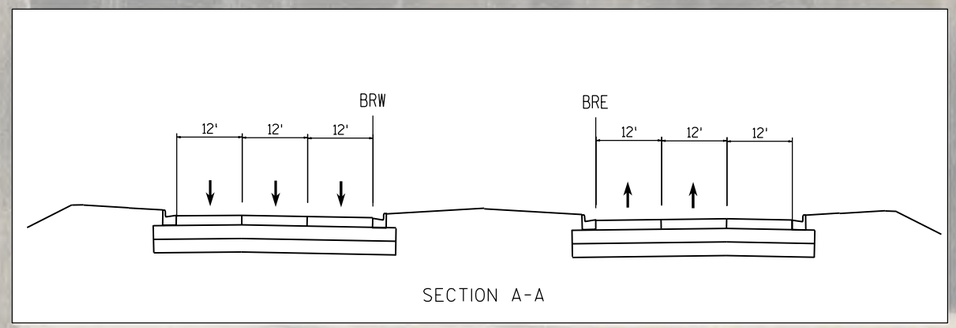
A

A

CONSTRUCTION BY OTHERS

CONSTRUCTION BY OTHERS

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 3B	SHEET 288	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.11_HNTB-Exhibits\Cad\TSB\Stage 3B-01.dgn PLOT BY : lucarlson PLOT NAME : PLOT SCALE : 200:1

2

N

BRAUN ROAD

BRAUN ROAD

N4

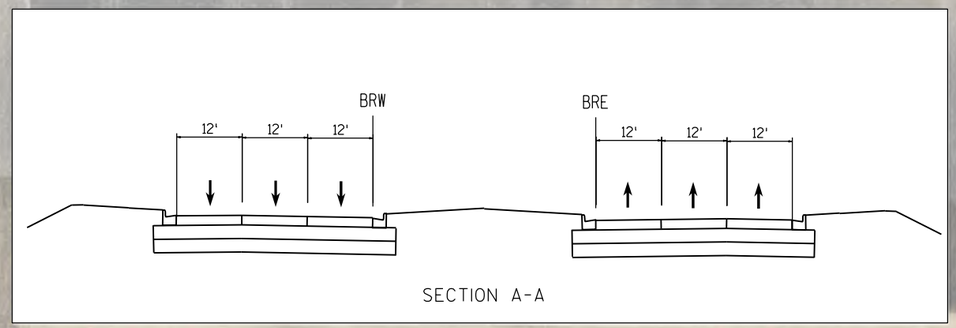
CONSTRUCTION BY OTHERS

CONSTRUCTION BY OTHERS

A

A

LEGEND	CONSTRUCTION AVALIABLE THIS STAGE	CONSTRUCTION CRITICAL FOR NEXT STAGE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
PERMANENT POND		
TEMPORARY ROADWAY		
ROAD/RAMP CLOSED	X X X	
DEMOLITION AND REMOVAL		
DIRECTION OF TRAVEL		
OPEN TO PUBLIC TRAFFIC		
OPEN TO CONSTRUCTION TRAFFIC		
TEMPORARY SIGNAL	T	
COMPLETED CONSTRUCTION NOT IN USE		



SECTION A-A

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	STAGE 3C	SHEET 289	E

2

GENERAL NOTES

ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.

ALL SIGNS SHALL BE PLACED IN ACCOURANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.

LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

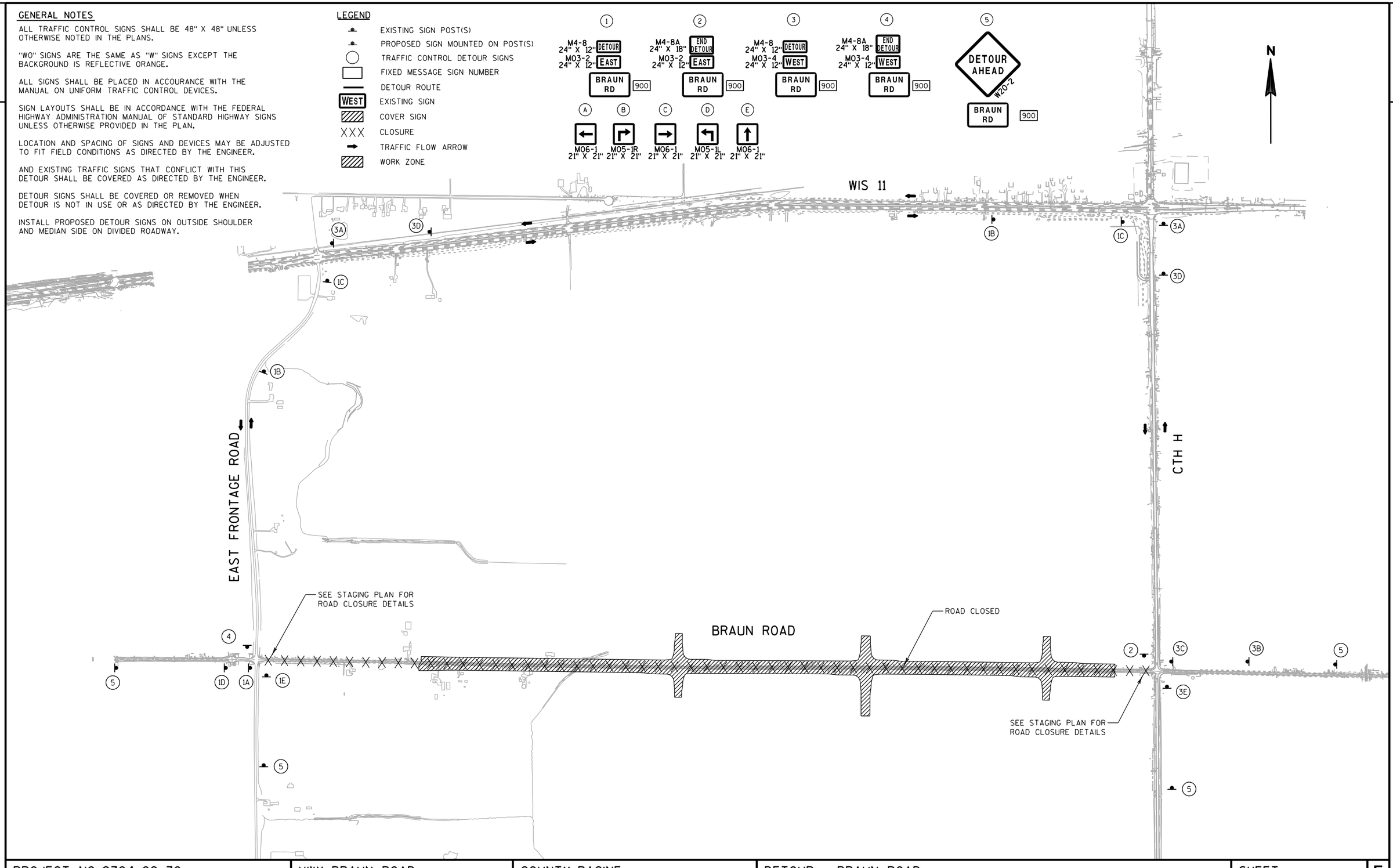
AND EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS DETOUR SHALL BE COVERED AS DIRECTED BY THE ENGINEER.

DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN DETOUR IS NOT IN USE OR AS DIRECTED BY THE ENGINEER.

INSTALL PROPOSED DETOUR SIGNS ON OUTSIDE SHOULDER AND MEDIAN SIDE ON DIVIDED ROADWAY.

LEGEND

- EXISTING SIGN POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- TRAFFIC CONTROL DETOUR SIGNS
- FIXED MESSAGE SIGN NUMBER
- DETOUR ROUTE
- WEST — EXISTING SIGN
- COVER SIGN
- XXX — CLOSURE
- TRAFFIC FLOW ARROW
- WORK ZONE



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	DETOUR - BRAUN ROAD	SHEET 290	E

POINT OF BEGINNING : BRW
PI = 53BRW+00.00
X = 594425.40
Y = 170410.31
AH = S 88° 42' 26" E

POINT OF BEGINNING : BRE
PI = 28BRE+83.20
X = 592008.86
Y = 170408.80
AH = S 89° 44' 10" E

CURVE : BRE-1
PC = 73BRE+75.69
X = 596499.53
Y = 170315.49
PI = 74BRE+52.20
X = 596576.02
Y = 170313.76
PT = 75BRE+28.68
X = 596652.51
Y = 170315.38

R = 3500.00'
DELTA = 2°30'16"
D = 1°38'13"
L = 152.99
T = 76.51
E = 0.84
BK = S 88°42'26" E
AH = N 88°47'18" E

CURVE : BRE-2
PC = 76BRE+89.29
X = 596813.09
Y = 170318.77
PI = 77BRE+55.57
X = 596879.35
Y = 170320.18
PT = 78BRE+21.83
X = 596945.62
Y = 170319.07

R = 3500.00'
DELTA = 2°10'11"
D = 1°38'13"
L = 132.54
T = 66.28
E = 0.63
BK = N 88°47'18" E
AH = S 89°02'31" E

POINT 3119
Y=172998.34
X=596640.31

T 3 N
30
R 22 E

2656.68'
S00°31'13"E

1/4 LINE

VILLAGE OF MT PLEASANT

POINT 3132
Y=170341.77
X=596664.43

T 3 N
30 31
R 22 E

PI 75BRW+39.96
X= 596664.79
Y= 170359.77

N

559
558
557

BEGIN CONSTRUCTION
STA 71BRW+75.05
X=596299.98
Y=170368.00

BRW = 69BRW+48.70
WCW = 556WCW+88.12
X= 596073.68
Y= 170373.11

70BRW 72BRW S 88°42'26" E 74BRW 76BRW S 89°02'31" E 78BRW 80BRW 82BRW 84BRW

R/L BRAUN RD WB

2538.26' SECTION LINE
S88°42'26"E

BRAUN ROAD

2631.51' SECTION LINE
S89°02'31"E

S 88°42'26" E

70BRE 72BRE PC BRE-1 74BRE BRE-1 PI BRE-1 N 88°47'18" E PT BRE-1 76BRE BRE-2 PC BRE-2 78BRE PI BRE-2 PT BRE-2 80BRE 82BRE 84BRE

R/L BRAUN RD EB

T 3 N
25 30
36 31
R 22 E

POINT 3143
Y=170399.04
X=594126.81

BRE = 69BRE+48.65
WCW = 556WCW+40.12
X= 596072.60
Y= 170325.12

556
555

BEGIN PROJECT 2704-09-70
STA 71BRE+75.00
X=596298.89
Y=170320.01

554

R/L WISCONN VALLEY WAY

553
552

2652.35'
S00°36'06"E

1/4 LINE

VILLAGE OF MT PLEASANT

POINT 3145
Y=167689.57
X=596692.28

T 3 N
31
R 22 E

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ALIGNMENT: BRAUN ROAD	SHEET 291	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040... PLOT DATE : 18 Dec 2018 02:06:22pm PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

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VILLAGE OF MT PLEASANT

84BRW 86BRW 88BRW S 89°02'31" E 90BRW 92BRW R/L BRAUN RD WB 94BRW 96BRW 98BRW

BRAUN ROAD 2631.51' S89°02'31"E SECTION LINE

S 89°02'31" E

84BRE 86BRE 88BRE 90BRE 92BRE 94BRE R/L BRAUN RD EB 96BRE 98BRE

VILLAGE OF MT PLEASANT

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ALIGNMENT: BRAUN ROAD	SHEET 292	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBraun\t18x28x2018 02:06:26pPM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

POINT 322120
Y=172950.04
X=599281.65

T 3 N
30 29
R 22 E

N

SECTION LINE 2652.31' S00°18'03"E

VILLAGE OF MT PLEASANT

PI 101BRW+71.33
X= 599295.79
Y= 170315.77

100BRW 102BRW 104BRW 106BRW 108BRW 110BRW 112BRW 114BRW

S 89°02'31" E S 89°33'57" E

R/L BRAUN RD WB

SECTION LINE 2631.51' S89°02'31"E — POE 1004FC1A — POE 1004FC1B — BRAUN ROAD — 2675.30' S89°33'57"E — SECTION LINE

S 89°02'31" E S 89°33'57" E

100BRE 102BRE 104BRE 106BRE 108BRE 110BRE 112BRE 114BRE

R/L BRAUN RD EB

PI 101BRE+71.90
X= 599295.36
Y= 170279.77

POINT 322133
Y=170279.8
X=599295.6

T 3 N
30 29
31 32
R 22 E

ACCESS FC1

1002FC1A N 0°57'29" E — 1002FC1B N 0°57'29" E

2646.50' S00°59'32"E

SECTION LINE

VILLAGE OF MT PLEASANT

R/L FC1 NB

R/L FC1 SB

POINT 322146
Y=167651.66
X=599341.40

T 3 N
31 32
R 22 E

POB FC1A — POB FC1B

POINT OF BEGINNING : FC1A
PI = 1000FC1A+00.00
X = 599169.62
Y = 169851.49
AH = N 0° 57' 29" E

POINT OF END : FC1A
PI = 1004FC1A+30.33 = 100BRE+53.35
X = 599176.82
Y = 170281.76
AH = N 0° 57' 29" E

POINT OF BEGINNING : FC1B
PI = 1000FC1B+00.00
X = 599181.62
Y = 169851.29
AH = N 0° 57' 29" E

POINT OF END : FC1B
PI = 1004FC1B+30.33 100BRE+65.35
X = 599188.82
Y = 170281.55
AH = N 0° 57' 29" E

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ALIGNMENT: BRAUN ROAD	SHEET 293	E

2

POINT OF BEGINNING : FC2A
PI = 3000FC2A+00.00
X = 601291.96
Y = 169631.63
AH = N 0° 26' 03" E

POINT OF END : FC2A
PI = 3006FC2A+33.00 = 121BRE+73.36
X = 601296.76
Y = 170264.61
AH = N 0° 26' 03" E

POINT OF BEGINNING : FC2B
PI = 3000FC2B+00.00
X = 601327.96
Y = 169631.36
AH = N 0° 26' 03" E

POINT OF END : FC2B
PI = 3006FC2B+33.00 = 122BRE+09.36
X = 601332.76
Y = 170264.34
AH = N 0° 26' 03" E

POINT OF BEGINNING : N4A
PI = 4000N4A+00.00 = 121BRW+72.63
X = 601297.03
Y = 170300.61
AH = N 0° 26' 03" E

POINT OF END : N4A
PI = 4004N4A+41.92
X = 601300.38
Y = 170742.52
AH = N 0° 26' 03" E

POINT OF BEGINNING : N4B
PI = 4000N4B+00.00 = 122BRW+08.63
X = 601333.03
Y = 170300.34
AH = N 0° 26' 03" E

POINT OF END : N4B
PI = 4004N4B+41.92
X = 601336.38
Y = 170742.24
AH = N 0° 26' 03" E

VILLAGE OF MT PLEASANT

POE N4A
POE N4B
4004N4A
4004N4B
R/L N4 NB
R/L N4 SB
4002N4A
4002N4B
N 0°26'03" E
ACCESS N4

T 3 N
29
R 22 E

POINT 322121
Y=172912.55
X=601947.08

N

2635.15'
S00°30'57"E
1/4 LINE

POINT 322134
Y=170277.51
X=601970.80

T 3 N
29
32
R 22 E

PI 128BRW+46.64
X= 601971.03
Y= 170295.50

114BRW 116BRW 118BRW S 89°33'57" E 120BRW 122BRW 124BRW 126BRW 128BRW S 88°58'46" E

POB N4A
POB N4B
R/L BRAUN RD WB

2675.30' SECTION LINE
S89°33'57"E

POE FC2A
POE FC2B
BRAUN ROAD

114BRE 116BRE 118BRE S 89°33'57" E 120BRE 122BRE 124BRE 126BRE 128BRE S 88°58'46" E

R/L BRAUN RD EB

PI 128BRE+47.19
X= 601970.57
Y= 170259.51

3006FC2A
3006FC2B
N 0°26'03" E
R/L FC2 NB
R/L FC2 SB
3004FC2A
3004FC2B
ACCESS FC2

MATCHLINE

VILLAGE OF MT PLEASANT

2672.63'
S00°18'19"E
1/4 LINE

POINT 322147
Y=167604.91
X=601985.03

T 3 N
32
R 22 E

N

ACCESS FC2
POB FC2A
3002FC2A
N 0°26'03" E
N 0°26'03" E
3002FC2B
POB FC2B
R/L FC2 NB
R/L FC2 SB
MATCHLINE

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ALIGNMENT: BRAUN ROAD	SHEET 294	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBDALIN_18x28_2018-04-26.dgn PLOT DATE : 4/26/2018 2:06:26 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

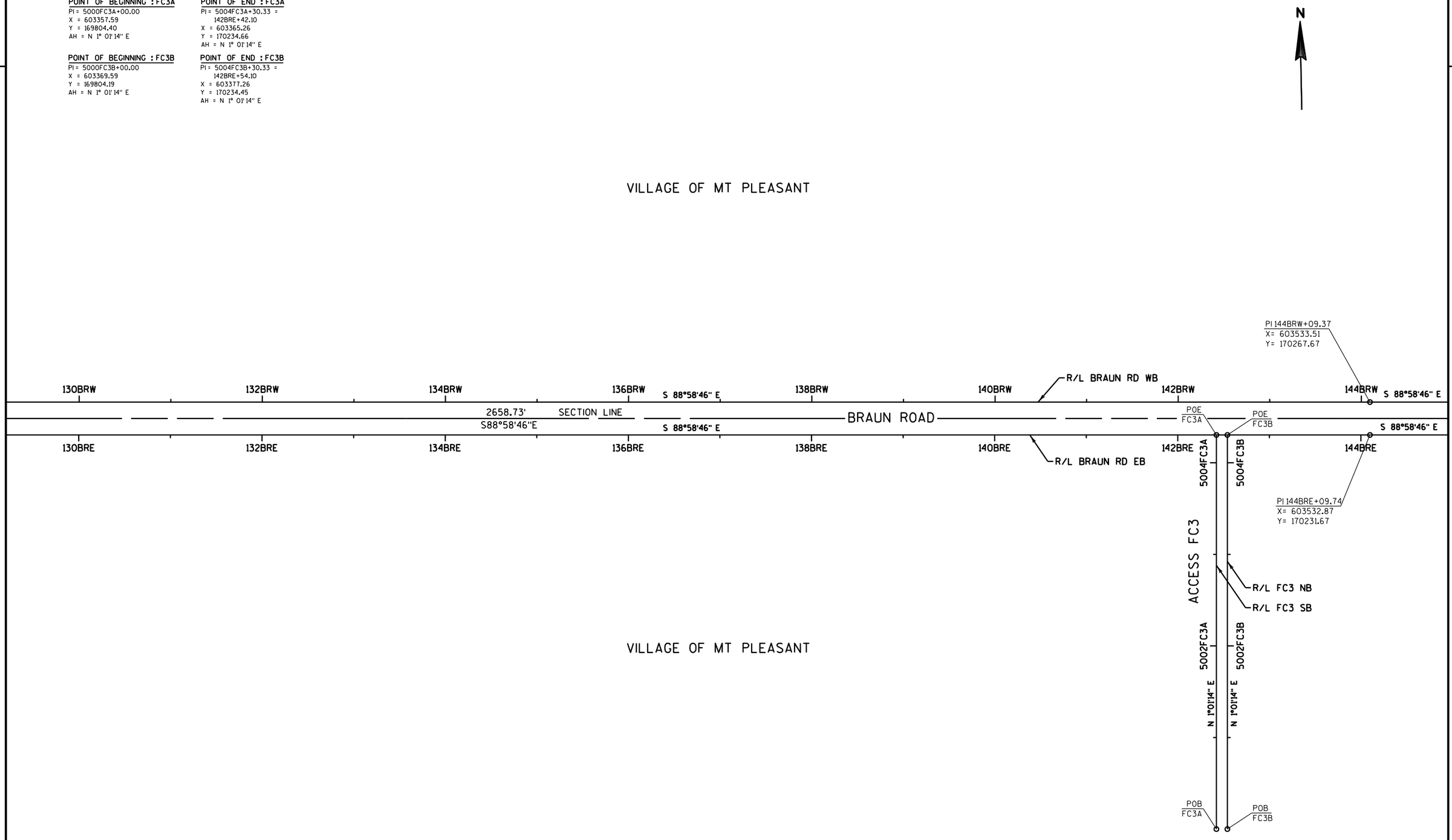
WISDOT/CADDS SHEET 42

POINT OF BEGINNING : FC3A
PI = 5000FC3A+00.00
X = 603357.59
Y = 169804.40
AH = N 1° 01' 14" E

POINT OF END : FC3A
PI = 5004FC3A+30.33 = 142BRE+42.10
X = 603365.26
Y = 170234.66
AH = N 1° 01' 14" E

POINT OF BEGINNING : FC3B
PI = 5000FC3B+00.00
X = 603369.59
Y = 169804.19
AH = N 1° 01' 14" E

POINT OF END : FC3B
PI = 5004FC3B+30.33 = 142BRE+54.10
X = 603377.26
Y = 170234.45
AH = N 1° 01' 14" E



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ALIGNMENT: BRAUN ROAD	SHEET 295	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704PLOT DATE = 8/28/2018 3:06:42 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

POINT OF ENDING : BRW
PI = 159BRW+32.23
X = 605056.07
Y = 170237.99
BK = S 88°35'46" E

POINT OF ENDING : BRE
PI = 159BRE+32.35
X = 605055.19
Y = 170202.00
BK = S 89°35'46" E

POINT 322122
Y=172875.36
X=604606.35

T 3 N
29 28
R 22 E

N

860HS

860HN

2645.31'
S00°29'34"E

SECTION LINE

858HS

858HN

POINT 322135
Y=170230.15
X=604629.10

T 3 N
29 28
32 33
R 22 E

VILLAGE OF MT PLEASANT

VILLAGE OF STURTEVANT

END CONSTRUCTION
STA 149BRW+83.69
X=604107.74
Y=170257.44

PI 144BRW+09.37
X= 603533.51
Y= 170267.67

R/L BRAUN RD WB

BRW = 154BRW+86.98
HS = 856HS+58.23
X= 604610.95
Y= 170248.47

BRW = 155BRW+22.99
HN = 856HN+56.81
X= 604646.95
Y= 170247.83

PI 155BRW+50.65
X= 604674.60
Y= 170247.34

146BRW 148BRW S 88°58'46" E 150BRW 152BRW 154BRW 156BRW 158BRW

2658.73' SECTION LINE
S88°58'46"E

BRAUN ROAD

2667.43' SECTION LINE
S88°35'46"E

S 88°58'46" E

146BRE 148BRE 150BRE 152BRE 154BRE 156BRE 158BRE

PI 144BRE+09.74
X= 603532.87
Y= 170231.67

R/L BRAUN RD EB

END PROJECT 2704-09-70
STA 149BRE+84.06
X=604107.10
Y=170221.44

BRE = 154BRE+88.17
HS = 856HS+22.22
X= 604611.14
Y= 170212.47

PI 155BRE+50.89
X= 604673.84
Y= 170211.35

BRE = 155BRE+24.18
HN = 856HN+20.80
X= 604647.14
Y= 170211.82

R/L CTH H SB

R/L CTH H NB

T 3 N
28
33
R 22 E

POINT 322136
Y=170164.79
X=607295.73

854HS

854HN

2672.32'
S00°06'05"E

SECTION LINE

VILLAGE OF MT PLEASANT

VILLAGE OF STURTEVANT

POINT 322148
Y=167557.83
X=604633.84

T 3 N
32 33
R 22 E

852HS

852HN

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ALIGNMENT: BRAUN ROAD	SHEET 296	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\18x28x2278203.06.dgn PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

POINT OF BEGINNING : BRT

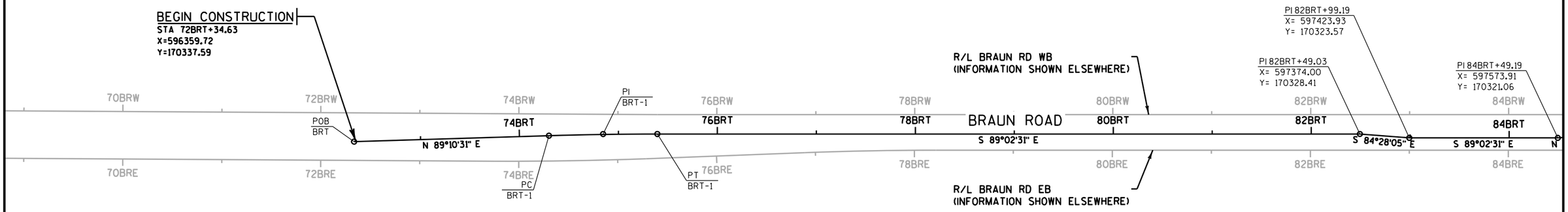
PI = 72BRT+32.86
X = 596357.96
Y = 170337.56
AH = N 89° 10' 31" E

CURVE : BRT-1

PC = 74BRT+29.87
X = 596554.94
Y = 170340.40
PI = 74BRT+84.58
X = 596609.65
Y = 170341.19
PT = 75BRT+39.29
X = 596664.36
Y = 170340.27

R = 3516.50'
DELTA = 1°46'58"
D = 1°37'46"
L = 109.42
T = 54.71
E = 0.43
BK = N 89°10'31" E
AH = S 89°02'31" E

N



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ALIGNMENT: BRAUN ROAD TEMPORARY	SHEET 297	E

2

2

N

PI 84BRT+49.19
X= 597573.91
Y= 170321.06

PI 84BRT+99.35
X= 597623.97
Y= 170324.23

R/L BRAUN RD WB
(INFORMATION SHOWN ELSEWHERE)

PI 92BRT+49.35
X= 598373.86
Y= 170311.69

PI 93BRT+49.67
X= 598473.71
Y= 170302.01

PI 93BRT+99.67
X= 598523.71
Y= 170301.18

PI 94BRT+99.99
X= 598623.83
Y= 170307.51

84BRW 86BRW 88BRW 90BRW 92BRW 94BRW 96BRW 98BRW

84BRT 86BRT 88BRT 90BRT 92BRT 94BRT 96BRT 98BRT

'31" E N 86°23'03" E S 89°02'31" E S 84°28'05" E S 89°02'31" E N 86°23'03" E S 89°02'31" E

BRAUN ROAD

84BRE 86BRE 88BRE 90BRE 92BRE 94BRE 96BRE 98BRE

R/L BRAUN RD EB
(INFORMATION SHOWN ELSEWHERE)

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ALIGNMENT: BRAUN ROAD TEMPORARY	SHEET 298	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOT DATE : 18 Dec 2018 12:06:55pm PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

2

2

N

PI 101BRT+71.81
X= 599295.56
Y= 170296.27

PI 111BRT+99.84
X= 600323.55
Y= 170288.48

PI 112BRT+50.00
X= 600373.52
Y= 170284.11

100BRW 102BRW 104BRW 106BRW 108BRW 110BRW 112BRW 114BRW

100BRT 102BRT 104BRT 106BRT BRAUN ROAD 108BRT 110BRT 112BRT 114BRT

S 89°33'57" E

S 84°59'31" E

100BRE 102BRE 104BRE 106BRE 108BRE 110BRE 112BRE 114BRE

R/L BRAUN RD WB
(INFORMATION SHOWN ELSEWHERE)

R/L BRAUN RD EB
(INFORMATION SHOWN ELSEWHERE)

1004FC1A 1004FC1B

ACCESS FC1

1002FC1A 1002FC1B

R/L FC1 NB
(INFORMATION SHOWN ELSEWHERE)

R/L FC1 SB
(INFORMATION SHOWN ELSEWHERE)

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ALIGNMENT: BRAUN ROAD TEMPORARY	SHEET 299	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOT DATE: 18 Jan 2022 12:06:59pm PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

2

2

N

PI 118BRT+50.00
X= 600973.50
Y= 170279.56

PI 119BRT+00.16
X= 601023.53
Y= 170283.18

PI 128BRT+47.43
X= 601970.78
Y= 170276.01

R/L BRAUN RD WB
(INFORMATION SHOWN ELSEWHERE)

R/L BRAUN RD EB
(INFORMATION SHOWN ELSEWHERE)

R/L FC2 NB
(INFORMATION SHOWN ELSEWHERE)

R/L FC2 SB
(INFORMATION SHOWN ELSEWHERE)

ACCESS FC2

BRAUN ROAD

114BRW 116BRW 118BRW 120BRW 122BRW 124BRW 126BRW 128BRW

114BRT 116BRT 118BRT 120BRT 122BRT 124BRT 126BRT 128BRT

S 89°33'57" E

N 85°51'36" E

S 89°33'57" E

114BRE 116BRE 118BRE 120BRE 122BRE 124BRE 126BRE 128BRE

4004N4A 4004N4B

4002N4A 4002N4B

3006FC2A 3006FC2B

3004FC2A 3004FC2B

3002FC2A 3002FC2B

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ALIGNMENT: BRAUN ROAD TEMPORARY	SHEET 300	E

2

2

N

130BRW 132BRW 134BRW 136BRW 138BRW 140BRW 142BRW 144BRW

130BRT 132BRT 134BRT 136BRT 138BRT 140BRT 142BRT 144BRT

R/L BRAUN RD WB
(INFORMATION SHOWN ELSEWHERE)

S 88°58'46" E

BRAUN ROAD

130BRE 132BRE 134BRE 136BRE 138BRE 140BRE 142BRE 144BRE

R/L BRAUN RD EB
(INFORMATION SHOWN ELSEWHERE)

5004FC3A 5004FC3B

PI 144BRT+10.06
X= 603533.16
Y= 170248.17

R/L FC3 NB
(INFORMATION SHOWN ELSEWHERE)

R/L FC3 SB
(INFORMATION SHOWN ELSEWHERE)

5002FC3A 5002FC3B

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ALIGNMENT: BRAUN ROAD TEMPORARY	SHEET 301	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040[illegible] PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

POINT OF ENDING : BRT
PI = 155BRT+51.27
X = 604674.19
Y = 170227.84
BK = S 88°58'46" E

N

PI 144BRT+10.06
X= 603533.16
Y= 170248.17

R/L BRAUN RD WB
(INFORMATION SHOWN ELSEWHERE)

END CONSTRUCTION
STA 154BRT+22.19
X=604545.13
Y=170230.14

146BRW 148BRW 150BRW 152BRW 154BRW 156BRW 158BRW

146BRT 148BRT 150BRT BRAUN ROAD 152BRT 154BRT

POE
BRT

S 88°58'46" E

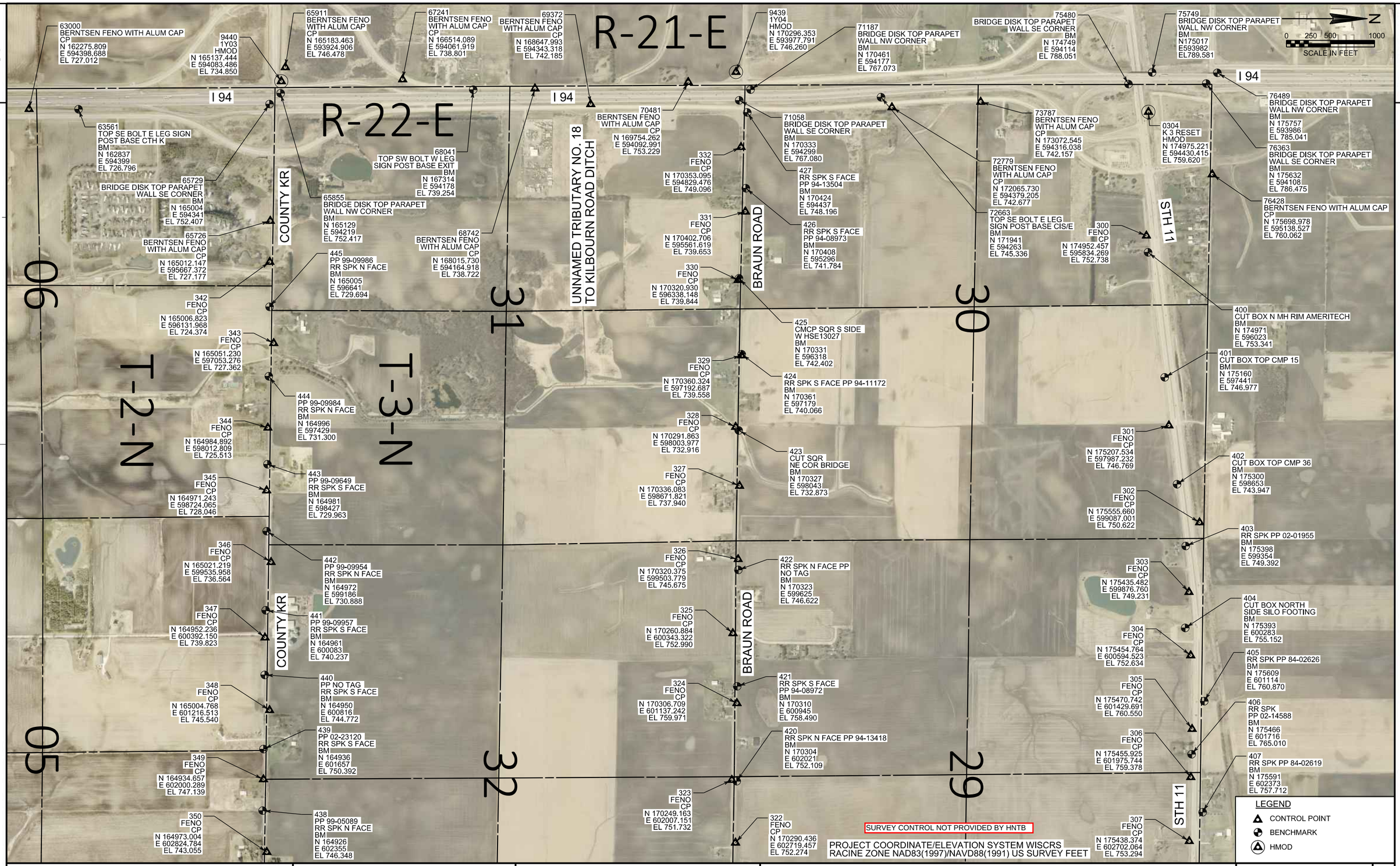
146BRE 148BRE 150BRE 152BRE 154BRE 156BRE 158BRE

R/L BRAUN RD EB
(INFORMATION SHOWN ELSEWHERE)

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	ALIGNMENT: BRAUN ROAD TEMPORARY	SHEET 302	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBraun\t18x28_2018 3:07:19 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

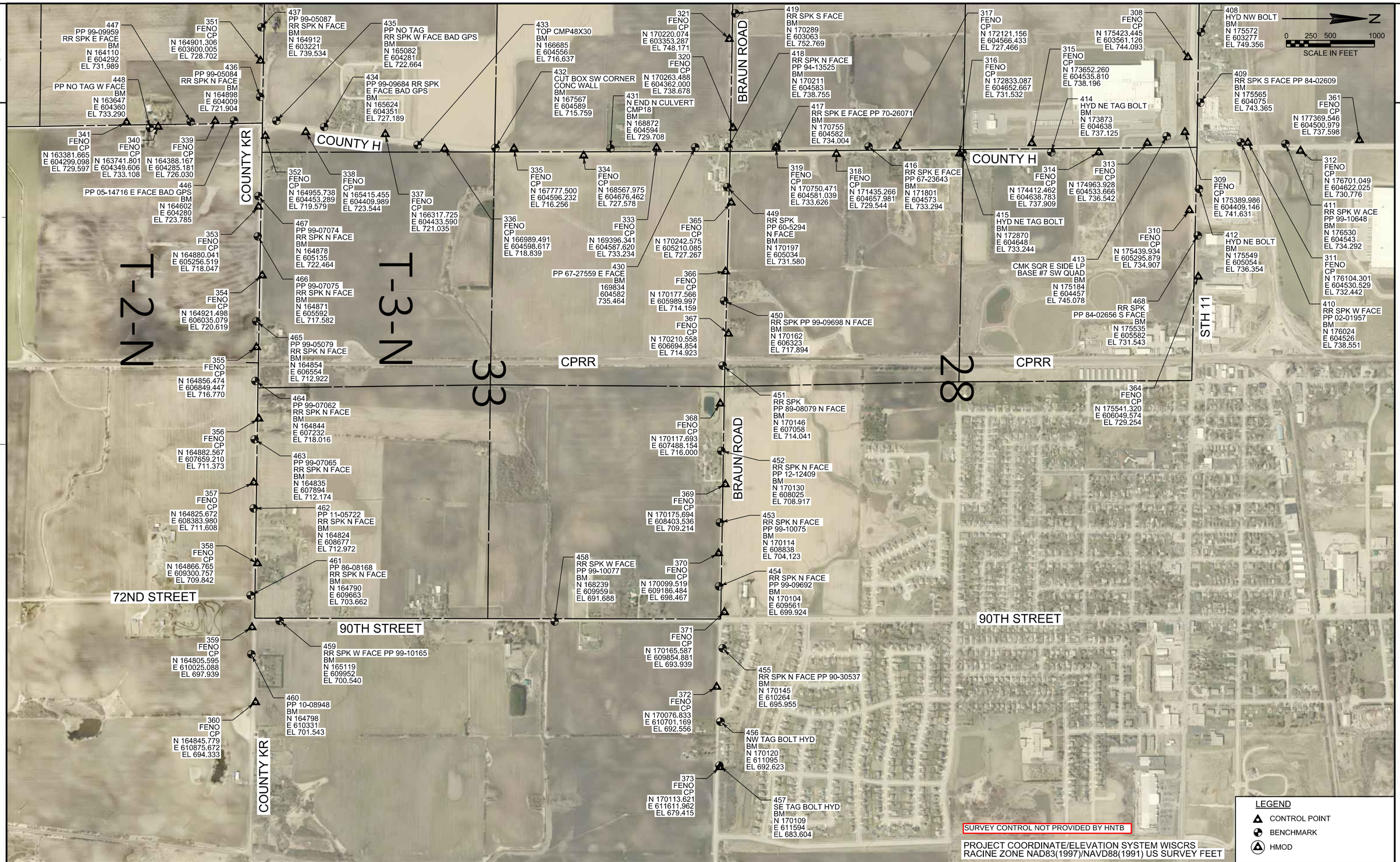
WISDOT/CADDS SHEET 42



PROJECT NO: FOXCONN DEVELOPMENT	HWY: VARIES	COUNTY: RACINE	CONTROL AND BENCHMARK OVERVIEW	SHEET 303	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\Displays\CONTROL AND BENCHMARK DISPLAY\CONTROL AND BENCHMARKS DISPLAY SHT 1.dgn PLOT DATE : 3/29/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:1000

WISDOT/CADDS SHEET 42



PROJECT NO: FOXCONN DEVELOPMENT	HWY: VARIES	COUNTY: RACINE	CONTROL AND BENCHMARK OVERVIEW	SHEET 304	E

2704-09-70

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	1.000	1.000
0004	201.0105	Clearing	STA	61.000	61.000
0006	201.0205	Grubbing	STA	61.000	61.000
0008	203.0100	Removing Small Pipe Culverts	EACH	21.000	21.000
0010	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 001. 89BRE+10	LS	1.000	1.000
0012	204.0115	Removing Asphaltic Surface Butt Joints	SY	192.000	192.000
0014	204.0165	Removing Guardrail **P**	LF	103.000	103.000
0016	204.0170	Removing Fence **P**	LF	193.000	193.000
0018	204.9090.S	Removing (item description) 001. Underdrain	LF	300.000	300.000
0020	204.9090.S	Removing (item description) 002. Draintile	LF	1,000.000	1,000.000
0022	205.0100	Excavation Common	CY	93,711.000	93,711.000
0024	205.0400	Excavation Marsh	CY	4,842.000	4,842.000
0026	206.2000	Excavation for Structures Culverts (structure) 001. B-51-160	LS	1.000	1.000
0028	209.1100	Backfill Granular Grade 1	CY	6,772.000	6,772.000
0030	210.2500	Backfill Structure Type B	TON	8,243.000	8,243.000
0032	213.0100	Finishing Roadway (project) 001. 2704-09-70	EACH	1.000	1.000
0034	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	51,617.000	51,617.000
0036	311.0110	Breaker Run	TON	109,203.000	109,203.000
0038	415.0100	Concrete Pavement 10-Inch **P**	SY	72,602.000	72,602.000
0040	415.4100	Concrete Pavement Joint Filling	SY	72,602.000	72,602.000
0042	415.5110.S	Concrete Pavement Joint Layout	LS	1.000	1.000
0044	416.1010	Concrete Surface Drains	CY	305.000	305.000
0046	440.4410	Incentive IRI Ride	DOL	35,700.000	35,700.000
0048	455.0605	Tack Coat	GAL	142.000	142.000
0050	460.2000	Incentive Density HMA Pavement	DOL	509.000	509.000
0052	460.6223	HMA Pavement 3 MT 58-28 S	TON	362.000	362.000
0054	460.6224	HMA Pavement 4 MT 58-28 S	TON	248.000	248.000
0056	465.0125	Asphaltic Surface Temporary	TON	6,491.000	6,491.000
0058	495.1000.S	Cold patch	TON	325.000	325.000
0060	504.0100	Concrete Masonry Culverts **P**	CY	989.000	989.000
0062	505.0400	Bar Steel Reinforcement HS Structures	LB	104,720.000	104,720.000
0064	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	9,090.000	9,090.000
0066	516.0500	Rubberized Membrane Waterproofing **P**	SY	94.000	94.000
0068	520.2015	Culvert Pipe Temporary 15-Inch	LF	45.000	45.000
0070	520.8000	Concrete Collars for Pipe	EACH	15.000	15.000
0072	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	7.000	7.000
0074	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	3.000	3.000

2704-09-70

Line	Item	Item Description	Unit	Total	Qty
0076	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	4.000	4.000
0078	601.0409	Concrete Curb & Gutter 30-Inch Type A **P**	LF	30,730.000	30,730.000
0080	601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A **P**	LF	2,222.000	2,222.000
0082	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D **P**	LF	85.000	85.000
0084	602.0410	Concrete Sidewalk 5-Inch **P**	SF	25,311.000	25,311.000
0086	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	1,020.000	1,020.000
0088	606.0100	Riprap Light	CY	175.000	175.000
0090	606.0200	Riprap Medium	CY	343.000	343.000
0092	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	60.000	60.000
0094	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	3,573.000	3,573.000
0096	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	2,946.000	2,946.000
0098	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	2,098.000	2,098.000
0100	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	3,523.000	3,523.000
0102	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	42.000	42.000
0104	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	568.000	568.000
0106	608.0436	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	LF	183.000	183.000
0108	608.0515	Storm Sewer Pipe Reinforced Concrete Class V 15-Inch	LF	915.000	915.000
0110	608.0518	Storm Sewer Pipe Reinforced Concrete Class V 18-Inch	LF	314.000	314.000
0112	608.0536	Storm Sewer Pipe Reinforced Concrete Class V 36-Inch	LF	317.000	317.000
0114	611.0535	Manhole Covers Type J-Special	EACH	4.000	4.000
0116	611.0624	Inlet Covers Type H	EACH	185.000	185.000
0118	611.0627	Inlet Covers Type HM	EACH	13.000	13.000
0120	611.0639	Inlet Covers Type H-S	EACH	36.000	36.000
0122	611.0642	Inlet Covers Type MS	EACH	4.000	4.000
0124	611.2004	Manholes 4-FT Diameter	EACH	91.000	91.000
0126	611.2005	Manholes 5-FT Diameter	EACH	42.000	42.000
0128	611.2006	Manholes 6-FT Diameter	EACH	13.000	13.000
0130	611.2007	Manholes 7-FT Diameter	EACH	2.000	2.000
0132	611.3230	Inlets 2x3-FT	EACH	112.000	112.000
0134	611.3901	Inlets Median 1 Grate	EACH	4.000	4.000
0136	611.8120.S	Cover Plates Temporary	EACH	41.000	41.000

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Line	Item	Item Description	Unit	Total	Qty
0138	611.9800.S	Pipe Grates	EACH	7.000	7.000
0140	612.0700	Drain Tile Exploration	LF	600.000	600.000
0142	616.0700.S	Fence Safety	LF	2,000.000	2,000.000
0144	619.1000	Mobilization	EACH	1.000	1.000
0146	620.0300	Concrete Median Sloped Nose **P**	SF	776.000	776.000
0148	623.0200	Dust Control Surface Treatment	SY	139,285.000	139,285.000
0150	624.0100	Water	MGAL	4,993.000	4,993.000
0152	627.0200	Mulching	SY	14,500.000	14,500.000
0154	628.1104	Erosion Bales	EACH	408.000	408.000
0156	628.1504	Silt Fence	LF	28,456.000	28,456.000
0158	628.1520	Silt Fence Maintenance	LF	28,456.000	28,456.000
0160	628.1905	Mobilizations Erosion Control	EACH	12.000	12.000
0162	628.1910	Mobilizations Emergency Erosion Control	EACH	15.000	15.000
0164	628.2008	Erosion Mat Urban Class I Type B	SY	144,673.000	144,673.000
0166	628.6005	Turbidity Barriers	SY	1,161.000	1,161.000
0168	628.6510	Soil Stabilizer Type B	ACRE	8.000	8.000
0170	628.7005	Inlet Protection Type A	EACH	204.000	204.000
0172	628.7020	Inlet Protection Type D	EACH	181.000	181.000
0174	628.7504	Temporary Ditch Checks	LF	1,136.000	1,136.000
0176	628.7555	Culvert Pipe Checks	EACH	1.000	1.000
0178	628.7560	Tracking Pads	EACH	10.000	10.000
0180	628.7570	Rock Bags	EACH	31.000	31.000
0182	629.0210	Fertilizer Type B	CWT	84.000	84.000
0184	630.0140	Seeding Mixture No. 40	LB	2,188.000	2,188.000
0186	630.0200	Seeding Temporary	LB	2,188.000	2,188.000
0188	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	9.000	9.000
0190	633.5200	Markers Culvert End	EACH	14.000	14.000
0192	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	78.000	78.000
0194	637.0620	Sign Flags Permanent Type II	EACH	16.000	16.000
0196	637.2210	Signs Type II Reflective H	SF	425.880	425.880
0198	637.2215	Signs Type II Reflective H Folding	SF	74.600	74.600
0200	637.2230	Signs Type II Reflective F	SF	164.000	164.000
0202	638.2102	Moving Signs Type II	EACH	3.000	3.000
0204	638.2602	Removing Signs Type II	EACH	13.000	13.000
0206	638.3000	Removing Small Sign Supports	EACH	12.000	12.000
0208	638.4000	Moving Small Sign Supports	EACH	2.000	2.000
0210	640.1303.S	Pond Liner Clay	CY	1,223.000	1,223.000
0212	643.0300	Traffic Control Drums	DAY	1,225.000	1,225.000
0214	643.0410	Traffic Control Barricades Type II	DAY	1.000	1.000
0216	643.0420	Traffic Control Barricades Type III	DAY	1,840.000	1,840.000

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Line	Item	Item Description	Unit	Total	Qty
0218	643.0705	Traffic Control Warning Lights Type A	DAY	3,680.000	3,680.000
0220	643.0715	Traffic Control Warning Lights Type C	DAY	500.000	500.000
0222	643.0900	Traffic Control Signs	DAY	19,938.000	19,938.000
0224	643.0920	Traffic Control Covering Signs Type II	EACH	115.000	115.000
0226	643.1000	Traffic Control Signs Fixed Message	SF	120.000	120.000
0228	643.5000	Traffic Control	EACH	1.000	1.000
0230	645.0105	Geotextile Type C	SY	1,447.000	1,447.000
0232	645.0120	Geotextile Type HR	SY	750.000	750.000
0234	645.0220	Geogrid Type SR	SY	29,124.000	29,124.000
0236	646.1020	Marking Line Epoxy 4-Inch **P**	LF	7,026.000	7,026.000
0238	646.3020	Marking Line Epoxy 8-Inch **P**	LF	3,763.000	3,763.000
0240	646.5020	Marking Arrow Epoxy	EACH	22.000	22.000
0242	646.5120	Marking Word Epoxy	EACH	11.000	11.000
0244	646.6120	Marking Stop Line Epoxy 18-Inch	LF	337.000	337.000
0246	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	2,239.000	2,239.000
0248	646.8120	Marking Curb Epoxy	LF	239.000	239.000
0250	646.8220	Marking Island Nose Epoxy	EACH	12.000	12.000
0252	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	17,705.000	17,705.000
0254	649.0220	Temporary Marking Line Epoxy 8-Inch	LF	15,565.000	15,565.000
0256	649.0520	Temporary Marking Arrow Epoxy	EACH	2.000	2.000
0258	649.0820	Temporary Marking Stop Line Epoxy 18-Inch	LF	34.000	34.000
0260	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	7,904.000	7,904.000
0262	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	2,673.000	2,673.000
0264	652.0800	Conduit Loop Detector	LF	720.000	720.000
0266	653.0135	Pull Boxes Steel 24x36-Inch	EACH	11.000	11.000
0268	653.0140	Pull Boxes Steel 24x42-Inch	EACH	21.000	21.000
0270	654.0101	Concrete Bases Type 1	EACH	7.000	7.000
0272	654.0102	Concrete Bases Type 2	EACH	4.000	4.000
0274	654.0105	Concrete Bases Type 5	EACH	42.000	42.000
0276	654.0113	Concrete Bases Type 13	EACH	4.000	4.000
0278	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	1.000	1.000
0280	655.0230	Cable Traffic Signal 5-14 AWG	LF	763.000	763.000
0282	655.0240	Cable Traffic Signal 7-14 AWG	LF	2,634.000	2,634.000
0284	655.0260	Cable Traffic Signal 12-14 AWG	LF	2,742.000	2,742.000
0286	655.0320	Cable Type UF 2-10 AWG Grounded	LF	2,062.000	2,062.000
0288	655.0510	Electrical Wire Traffic Signals 12 AWG	LF	42.000	42.000
0290	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	3,844.000	3,844.000
0292	655.0610	Electrical Wire Lighting 12 AWG	LF	1,872.000	1,872.000
0294	655.0700	Loop Detector Lead In Cable	LF	2,256.000	2,256.000
0296	655.0800	Loop Detector Wire	LF	2,692.000	2,692.000

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Line	Item	Item Description	Unit	Total	Qty
0298	655.0900	Traffic Signal EVP Detector Cable	LF	1,686.000	1,686.000
0300	656.0200	Electrical Service Meter Breaker Pedestal (location) 301. Braun Road & Foxconn Driveway	LS	1.000	1.000
0302	657.0100	Pedestal Bases	EACH	7.000	7.000
0304	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	46.000	46.000
0306	657.0310	Poles Type 3	EACH	4.000	4.000
0308	657.0322	Poles Type 5-Aluminum	EACH	4.000	4.000
0310	657.0405	Traffic Signal Standards Aluminum 3.5-FT	EACH	1.000	1.000
0312	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	1.000	1.000
0314	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	5.000	5.000
0316	657.0609	Luminaire Arms Single Member 4-Inch Clamp 6-FT	EACH	8.000	8.000
0318	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	8.000	8.000
0320	657.1355	Install Poles Type 12	EACH	4.000	4.000
0322	657.1540	Install Monotube Arms 40-FT	EACH	2.000	2.000
0324	657.1545	Install Monotube Arms 45-FT	EACH	2.000	2.000
0326	658.0173	Traffic Signal Face 3S 12-Inch	EACH	17.000	17.000
0328	658.0174	Traffic Signal Face 4S 12-Inch	EACH	9.000	9.000
0330	658.0416	Pedestrian Signal Face 16-Inch	EACH	8.000	8.000
0332	658.0500	Pedestrian Push Buttons	EACH	11.000	11.000
0334	658.5069	Signal Mounting Hardware (location) 301. Braun Road & Foxconn Driveway	LS	1.000	1.000
0336	659.1125	Luminaires Utility LED C	EACH	16.000	16.000
0338	673.0105	Communication Vault Type 1	EACH	1.000	1.000
0340	690.0150	Sawing Asphalt	LF	6,779.000	6,779.000
0342	715.0415	Incentive Strength Concrete Pavement	DOL	6,050.000	6,050.000
0344	715.0502	Incentive Strength Concrete Structures	DOL	5,934.000	5,934.000
0346	SPV.0035	Special 001. Roadway Embankment	CY	105,994.000	105,994.000
0348	SPV.0035	Special 002. EBS Excavation	CY	9,708.000	9,708.000
0350	SPV.0035	Special 003. EBS Backfill	CY	9,708.000	9,708.000
0352	SPV.0060	Special 001. Temporary Stone Ditch Checks	EACH	60.000	60.000
0354	SPV.0060	Special 002. Sand Bags	EACH	50.000	50.000
0356	SPV.0060	Special 003. Temporary Sediment Traps	EACH	6.000	6.000
0358	SPV.0060	Special 004. Pond A Outlet Storm Sewer Structure	EACH	1.000	1.000
0360	SPV.0060	Special 008. Mobilization Emergency Pavement Repair	EACH	16.000	16.000
0362	SPV.0060	Special 009. Section Corner Monuments	EACH	3.000	3.000
0364	SPV.0060	Special 010. Inlet Covers Beehive	EACH	23.000	23.000
0366	SPV.0060	Special 012. Connect Drain Tile	EACH	15.000	15.000
0368	SPV.0060	Special 725. Bioretention Type A	EACH	11.000	11.000
0370	SPV.0060	Special 726. Bioretention Type B	EACH	9.000	9.000
0372	SPV.0060	Special 727. Bioretention Type C	EACH	3.000	3.000

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Line	Item	Item Description	Unit	Total	Qty
0374	SPV.0075	Special 001. Pavement Cleanup Project 2704-09-70	HRS	40.000	40.000
0376	SPV.0090	Special 001. Heavy Duty Silt Fence	LF	2,062.000	2,062.000
0378	SPV.0090	Special 002. Pipe Underdrain 6-Inch Special	LF	1,983.000	1,983.000
0380	SPV.0105	Special 001. Temporary Water Diversion Culvert B-51-160	LS	1.000	1.000
0382	SPV.0105	Special 002. Survey Project 2704-09-70	LS	1.000	1.000
0384	SPV.0105	Special 003. Field Office Left In Place Special	LS	1.000	1.000
0386	SPV.0105	Special 301. Trans & Inst St Furn Traffic Signal Cabinet Braun Road & Foxconn Driveway	LS	1.000	1.000
0388	SPV.0105	Special 302. Trans & Inst St Furn Multi-Sensor Veh Detection Sys Braun Rd & Foxconn Dwy	LS	1.000	1.000
0390	SPV.0105	Special 303. Trans & Ins St Furn EVP Detector Heads Braun Road & Foxconn Driveway	LS	1.000	1.000
0392	SPV.0105	Special 304. Trans Traf Sig & Intersection Lighting Materials Braun Rd & Foxconn Dwy	LS	1.000	1.000
0394	SPV.0105	Special 305. Trans & Ins St Furn Video Vehicle Detection System Braun Rd & Foxconn Dwy	LS	1.000	1.000
0396	SPV.0105	Special 730. Water Tap Service and Irrigation System	LS	1.000	1.000
0398	SPV.0135	Special 001. Maintain Field Office Left In Place Special	MON	14.000	14.000
0400	SPV.0170	Special 001. Removal and Disposal of Invasive Plant Species	STA	4.000	4.000
0402	SPV.0180	Special 001. Topsoil Special	SY	144,673.000	144,673.000

CPM PROGRESS SCHEDULE

ROADWAY	108.4400 CPM PROGRESS SCHEDULE EACH
PROJECT 2704-09-70	1
PROJECT 2704-09-70 TOTALS	1

CLEARING AND GRUBBING

STAGE	STATION BEGIN		STATION END	OFFSET	201.0105 CLEARING STA	201.0205 GRUBBING STA
STAGE 1A						
	91BRW+00	-	93BRW+00	LT	2	2
	124BRW+00	-	126BRW+00	LT	2	2
STAGE 1A SUBTOTAL					4	4
STAGE 1B						
	121BRE+00	-	122BRE+00	RT	1	1
	143BRE+00	-	145BRE+00	RT	2	2
STAGE 1B SUBTOTAL					3	3
STAGE 1C						
	71BRE+00	-	78BRE+00	RT	7	7
	80BRE+00	-	86BRE+00	RT	6	6
	95BRE+00	-	99BRE+00	RT	4	4
	101BRE+00	-	104BRE+00	RT	3	3
	118BRE+00	-	120BRE+00	RT	2	2
	136BRE+00	-	138BRE+00	RT	2	2
	143BRE+00	-	154BRE+00	RT	11	11
STAGE 1C SUBTOTAL					35	35
STAGE 2						
	75BRW+00	-	76BRW+00	LT	1	1
	84BRW+00	-	88BRW+00	RT	4	4
	84BRW+00	-	88BRW+00	LT	4	4
	106BRW+00	-	110BRW+00	LT	4	4
	112BRW+00	-	117BRW+00	LT	5	5
	140BRW+00	-	141BRW+00	LT	1	1
STAGE 2 SUBTOTAL					19	19
PROJECT 2704-09-70 TOTAL					61	61

REMOVING SMALL PIPE CULVERT

STAGE	STATION BEGIN		STATION END	OFFSET	203.1000 REMOVING SMALL PIPE CULVERT EACH
STAGE 1A					
	107BRW+02.49	-	107BRW+31.40	RT	1
	108BRW+43.64	-	108BRW+73.60	RT	1
	111BRW+81.75	-	112BRW+34.11	RT	1
	113BRW+18.12	-	113BRW+38.40	RT	1
	114BRW+53.94	-	114BRW+73.85	RT	1
	114BRW+86.64	-	115BRW+91.53	RT	1
	123BRW+77.47	-	124BRW+19.35	RT/LT	1
	128BRW+31.64	-	128BRW+61.67	RT	1
	131BRW+54.00	-	131BRW+54.39	RT	1
	141BRW+63.96	-	142BRW+05.90	LT	1
STAGE 1A SUBTOTAL					10
STAGE 1B					
	79BRW+26.89	-	79BRW+29.35	RT	1
	85BRW+04.44	-	86BRW+74.27	RT	1
STAGE 1B SUBTOTAL					2
STAGE 1C					
	74BRE+98.71	-	75BRE+19.47	RT	1
	80BRE+66.86	-	80BRE+87.15	RT	1
	93BRE+95.34	-	95BRE+40.04	RT	1
	96BRE+20.22	-	96BRE+61.03	RT	1
	102BRE+38.21	-	102BRE+59.22	RT	1
	103BRE+62.65	-	103BRE+91.06	RT	1
STAGE 1C SUBTOTAL					6
STAGE 2					
	73BRW+20.84	-	73BRW+44.60	RT	1
	75BRW+44.41	-	75BRW+64.64	LT	1
	88BRW+42.51	-	88BRW+65.71	RT	1
STAGE 2 SUBTOTAL					3
PROJECT 2704-09-70 TOTAL					21

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REMOVING ASPHALTIC SURFACE MILLING & BUTT JOINTS

STAGE	STATION		OFFSET	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY
STAGE 1C	150BRT+70	150BRT+95	LT	59
	153BRE+05	153BRE+55	LT	133
STAGE 1C SUBTOTAL				192
PROJECT 2704-09-70 TOTAL				192

REMOVING GUARDRAIL & FENCING

STAGE	STATION			OFFSET	204.0165 REMOVING GUARDRAIL LF	204.0170 REMOVING FENCE LF
STAGE 1B						
	88BRW+84.54	-	89BRW+36.58	LT	52	--
STAGE 1B SUBTOTAL					52	--
STAGE 1C						
	73BRE+12.40	-	17BRE+19.99	RT	--	15
	88BRE+85.02	-	89BRE+36.36	RT	51	--
	153BRE+12.08	-	153BRE+52.45	RT	--	92
	153BRE+69.11	-	154BRE+53.18	RT	--	86
STAGE 1C SUBTOTAL					51	193
PROJECT 2704-09-70 TOTAL					103	193

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REMOVING DRAINTILE

ROADWAY	204.9090.S.001 REMOVING UNDERDRAIN LF	204.9090.S.002 REMOVING DRAIN TILE LF
UNDISTRIBUTED	300	1,000
PROJECT 2704-09-70 TOTAL	300	1,000

FINISHING ROADWAY

ROADWAY	213.0100 FINISHING ROADWAY 2704-09-70 EACH
PROJECT 2704-09-70	1
PROJECT 2704-09-70 TOTAL	1

Category	Division	From/To Station	Location	Excavation Common (CY) (1) 205.0100				Fill (CY)	Roadway Embankment (CY) (3) SPV.0035.001	Mass Ordinate +/- (4)	Backfill Granular in EBS Excavation only, 1' above nomal groundwater (CY) (3) (7)	Excavation Marsh (CY) (6) 205.0400	Backfill Granular Grade 1 (CY) (6) (8) 205.0400	Comment:
				Cut (CY) (2)	Topsoil Removal (CY)	Topsoil Special 6-Inch (CY) (5)	EBS Excavation (In Cross Sections) (CY) (8)							
1000	1A	92BRE+00 - 154BRE+50	TEMPORARY BRAUN ROAD	8,561	4,275	2,536	0	185	4,459	8,377	0	0	0	Includes BRT, East of Sta. 93+50
	Project 2704-09-70 - Division 1A Subtotal			8,561	4,275	2,536	0		4,459	8,377		0	0	
	Project 2704-09-70 - Division 1A Total			10,300					4,459	8,377		0	0	
1000	1B	71BRE+30 - 92BRE+00	TEMPORARY BRAUN ROAD	3,031	1,522	1,172	11,780	7,937	19,309	-4,905	1,930	4,842	6,772	Includes BRT, West of Sta. 93+50
	Project 2704-09-70 - Division 1B Subtotal			3,031	1,522	1,172	11,780		19,309	-4,905		4,842	6,772	
	Project 2704-09-70 - Division 1B Total			15,162					19,309	-4,905		4,842	6,772	
1000	1C	BRE	BRAUN ROAD EB	24,400	13,996	6,312	0	37,407	51,403	-13,007	0	0	0	
			POND A	7,870	0	815	0	0	0	7,870	0	0	0	
	Project 2704-09-70 - Division 1C Subtotal			32,269	13,996	7,127	0		51,403	-5,137		0	0	
	Project 2704-09-70 - Division 1C Total			39,138					51,403	-5,137		0	0	
1000	2B	BRE	BRAUN ROAD WB	29,593	6,799	8,455	0	26,750	33,549	2,842	0	0	0	
	Project 2704-09-70 - Division 2B Subtotal			29,593	6,799	8,455	0		33,549	2,842		0	0	
	Project 2704-09-70 - Division 2B Total			27,937					33,549	2,842		0	0	
	Project 2704-09-70 Totals			**92,537**					**108,720**	**1,177**		**4,842**	**6,772**	

1) Excavation Common = Cut + (Topsoil Removal - Topsoil Special 6-Inch). Item number 205.0100. Refer to Topsoil Removal Data.
2) Cut volume includes existing concrete and asphaltic surface material.
3) Roadway Embankment = (Fill + Topsoil Removal Replaced + EBS Excavation Replaced 1' above normal groundwater elevation). Refer to Topsoil Removal Detail.
4) The Mass Ordinate is calculated by division. A positive quantity indicates an excess of material within the Division and a negative quantity indicates a shortage of material within the Division. Structure Excavation is not included in this
5) Topsoil Special 6-Inch SPV 0180.001 paid as SY. Volume shown as CY for reference for calculation of Excavation Common.
6) Excavation Marsh limits as identified in the cross sections. All marsh material assumed to be wasted offsite. Refer to Kilbourn Ditch Excavation Details
7) For reference for calculation of Roadway Embankment. Refer to Kilbourn Ditch Excavation Details.
8) EBS Excavation as identified in the cross sections at Kilbourn Ditch. EBS Excavation to be backfilled with Backfill Granular to 1' above normal groundwater elevation (verify in field). Backfill with Roadway Embankment above Backfill Granular, or as directed by the Engineer. All EBS material assumed to be wasted offsite.

Mass Ordinate = Cut - Fill. The Mass Ordinate is for information purposes only as Common Excavation and Roadway Embankment are not balanced for quantity purposes and does not guarantee the quality of Common Excavation, and if it can be reused onsite.

SUBSTRUCTURE

ROADWAY	FROM STATION	TO STATION	OFFSET	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON	623.0200 DUST CONTROL SURFACE TREATMENT SY	624.0100* WATER MGAL
STAGE 1A							
BRAUN ROAD	93BRW+90	154BRW+48	LT/RT	7,626	12,201	13,726	297
STAGE 1A SUBTOTAL				7,626	12,201	13,726	297
STAGE 1B							
BRAUN ROAD	71BRW+40	93BRW+52	LT/RT	3,307	5,291	5,952	129
	120BRE+29	121BRE+55	LT	9	--	42	--
	120BRE+29	121BRE+55	LT	9	--	42	--
	120BRE+29	121BRE+55	LT	47	--	84	1
	120BRE+29	121BRE+22	RT	11	--	49	--
	120BRE+29	123BRE+70	LT/RT	919	2,452	2,758	51
	121BRE+13	121BRE+58	RT	5	--	25	--
	121BRE+14	121BRE+56	RT	76	76	85	2
	121BRE+14	121BRE+53	RT	3	--	15	--
	121BRE+73	121BRE+80	RT	1	--	6	--
	121BRE+77	121BRE+83	RT	5	--	10	--
	121BRE+83	121BRE+85	RT	1	--	5	--
	122BRE+21	122BRE+25	RT	3	--	15	--
	122BRE+25	122BRE+47	RT	63	63	71	2
	122BRE+27	122BRE+52	RT	4	--	20	--
	122BRE+51	123BRE+70	RT	15	--	70	--
	122BRE+83	123BRE+70	LT	5	--	24	--
	122BRE+83	123BRE+70	LT	37	--	67	1
	122BRE+83	123BRE+70	LT	5	--	24	--
	141BRE+07	142BRE+24	LT	13	--	58	--
	141BRE+07	144BRE+14	LT/RT	714	1,905	2,143	39
	141BRE+08	141BRE+90	RT	10	--	44	--
	141BRE+82	142BRE+27	RT	5	--	25	--
	141BRE+83	142BRE+22	RT	3	--	15	--
	141BRE+83	142BRE+25	RT	76	76	85	2
	142BRE+42	142BRE+48	RT	1	--	6	--
	142BRE+46	142BRE+52	RT	5	--	10	--
	142BRE+52	142BRE+54	RT	1	--	5	--
	142BRE+66	142BRE+70	RT	3	--	15	--
	142BRE+69	142BRE+89	RT	62	62	69	2
	142BRE+72	142BRE+93	RT	4	--	19	--
	142BRE+96	144BRE+14	RT	15	--	70	--
	143BRE+27	144BRE+14	LT	5	--	24	--
STAGE 1B SUBTOTAL				5,442	9,925	11,952	229

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SUBSTRUCTURE (CONTINUED)

ROADWAY	FROM STATION	TO STATION	OFFSET	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON	623.0200 DUST CONTROL SURFACE TREATMENT SY	624.0100* WATER MGAL
STAGE 1C							
BRAUN ROAD	71BRE+75	120BRE+29	LT/RT	8,394	22,385	25,183	462
	71BRE+75	100BRE+02	RT	315	--	1,419	5
	71BRE+75	100BRE+35	LT	306	--	1,376	5
	99BRE+93	100BRE+38	RT	5	--	25	--
	99BRE+94	100BRE+33	RT	3	--	15	--
	99BRE+94	100BRE+36	RT	76	76	85	2
	100BRE+53	100BRE+60	RT	1	--	6	--
	100BRE+57	100BRE+63	RT	5	--	10	--
	100BRE+63	100BRE+65	RT	1	--	5	--
	100BRE+77	100BRE+81	RT	3	--	15	--
	100BRE+81	101BRE+00	RT	62	62	69	2
	100BRE+83	101BRE+04	RT	4	--	19	--
	101BRE+07	120BRE+29	RT	216	--	974	3
	101BRE+38	103BRE+40	LT	12	--	56	--
	103BRE+40	117BRE+36	LT	155	--	698	2
	123BRE+70	124BRE+85	LT	7	--	32	--
	123BRE+70	141BRE+08	RT	194	--	871	3
	123BRE+70	141BRE+08	LT/RT	2,982	7,951	8,945	164
	124BRE+85	141BRE+08	LT	180	--	811	3
	144BRE+14	149BRE+84	LT/RT	940	2,507	2,820	52
	144BRE+14	145BRE+40	LT	8	--	35	--
	144BRE+14	149BRE+84	RT	63	--	285	1
	145BRE+40	149BRE+84	LT	49	--	222	1
STAGE 1C SUBTOTAL				13,981	32,981	43,976	705

SUBSTRUCTURE (CONTINUED)

ROADWAY	FROM STATION	TO STATION	OFFSET	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON	623.0200 DUST CONTROL SURFACE TREATMENT SY	624.0100* WATER MGAL
STAGE 2							
BRAUN ROAD	71BRW+75	73BRW+52	RT	13	--	59	--
	71BRW+75	73BRW+52	RT	66	--	118	1
	71BRW+75	73BRW+52	RT	13	--	59	--
	71BRW+75	74BRW+18	RT	112	--	201	2
	71BRW+75	100BRW+36	RT	307	--	1,382	5
	71BRW+75	121BRW+31	LT	553	--	2,490	8
	71BRW+75	149BRW+84	LT/RT	15,475	41,266	46,424	851
	100BRW+83	102BRW+76	RT	14	--	64	--
	100BRW+83	102BRW+76	RT	36	--	64	1
	100BRW+83	102BRW+76	RT	29	--	129	--
	101BRW+38	103BRW+39	RT	93	--	167	1
	101BRW+38	103BRW+39	RT	13	--	56	--
	103BRW+39	119BRW+02	RT	174	--	783	3
	117BRW+35	119BRW+02	RT	19	--	85	--
	119BRW+02	121BRW+03	RT	12	--	56	--
	119BRW+02	121BRW+03	RT	93	--	168	1
	119BRW+02	121BRW+03	RT	12	--	56	--
	119BRW+65	120BRW+29	RT	5	--	21	--
	119BRW+65	120BRW+29	RT	24	--	43	--
	119BRW+65	120BRW+29	RT	5	--	21	--
	121BRW+31	121BRW+55	LT	4	--	20	--
	121BRW+36	121BRW+58	LT	63	63	71	2
	121BRW+58	121BRW+61	LT	3	--	15	--
	121BRW+73	121BRW+76	LT	3	--	13	--
	121BRW+76	121BRW+82	LT	14	--	26	--
	121BRW+82	121BRW+85	LT	3	--	13	--
	121BRW+97	121BRW+99	LT	1	--	3	--
	121BRW+99	122BRW+05	LT	3	--	6	--
	122BRW+04	122BRW+09	LT	1	--	4	--
	122BRW+24	122BRW+69	LT	5	--	25	--
	122BRW+26	122BRW+68	LT	76	76	85	2
	122BRW+27	124BRW+21	RT	14	--	65	--
	122BRW+27	124BRW+21	RT	72	--	130	1
	122BRW+27	124BRW+21	RT	14	--	65	--
	122BRW+29	122BRW+68	LT	3	--	15	--
	122BRW+60	149BRW+84	LT	304	--	1,367	5
	122BRW+69	124BRW+84	RT	7	--	32	--
	122BRW+69	124BRW+84	RT	56	--	100	1
	124BRW+84	142BRW+25	RT	195	--	876	3
	142BRW+72	144BRW+77	RT	15	--	68	--
	142BRW+72	144BRW+77	RT	76	--	137	1
	142BRW+72	144BRW+77	RT	15	--	68	--
	143BRW+27	145BRW+40	RT	13	--	60	--
	143BRW+27	145BRW+40	RT	98	--	177	1
	145BRW+40	149BRW+84	RT	50	--	224	1
STAGE 2 SUBTOTAL				18,176	41,405	56,111	890
UNDISTRIBUTED				2,261	4,826	6,288	106
PROJECT 2704-09-70 TOTALS				47,486	101,338	132,053	2,227

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DELETED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	MISCELLANEOUS QUANTITIES – BRAUN ROAD	SHEET: 317 E

CONCRETE PAVEMENT

ROADWAY	STATION			OFFSET	415.0100 CONCRETE PAVEMENT 10-INCH SY	415.0100 CONCRETE PAVEMENT JOINT FILLING SY
					--	--
STAGE 1B						
BRAUN ROAD	120BRE+29	-	121BRE+39	RT	255	255
	120BRE+29	-	123BRE+70	RT	1,974	1,974
	141BRE+08	-	142BRE+09	RT	243	243
	141BRE+08	-	144BRE+14	RT	1,591	1,591
STAGE 1B SUBTOTAL					4,063	4,063
STAGE 1C						
BRAUN ROAD	71BRE+75	-	120BRE+29	RT	20,351	20,351
	99BRE+24	-	100BRE+17	RT	194	194
	123BRE+70	-	141BRE+08	RT	7,234	7,234
	144BRE+14	-	149BRE+84	RT	2,279	2,279
STAGE 1C SUBTOTAL					30,058	30,058
STAGE 2						
BRAUN ROAD	71BRW+75	-	101BRW+31	RT/LT	13,477	13,477
	100BRW+80	-	121BRE+40	RT/LT	8,959	8,959
	117BRW+65	-	126BRW+20	RT	1,372	1,372
	121BRW+40	-	149BRW+84	LT	11,965	11,965
	122BRW+30	-	123BRW+37	LT	167	167
	141BRW+89	-	146BRW+76	RT	826	826
STAGE 2 SUBTOTAL					36,766	36,766
UNDISTRIBUTED					--	--
PROJECT 2704-09-70 TOTALS					70,887	70,887

CONCRETE PAVEMENT JOINT LAYOUT

ROADWAY	415.5110.S CONCRETE PAVEMENT JOINT LAYOUT LS
PROJECT 2704-09-70	1
PROJECT 2704-09-70 TOTALS	1

CONCRETE SURFACE DRAINS

ROADWAY	STATION	OFFSET	416.1010 CONCRETE SURFACE DRAIN CY
STAGE 1C			
BRAUN ROAD	76BRE+78	3'LT	1
	79BRE+06	3'LT	1
	79BRE+76	3'LT	1
	81BRE+62	3'LT	1
	85BRE+54	3'LT	1
	87BRE+74	3'LT	1
	90BRE+32	3'LT	1
	91BRE+02	3'LT	1
	92BRW+53	3'LT	1
	94BRE+71	3'LT	1
	105BRE+6	3'LT	1
	107BRE+4	3'LT	1
	109BRE+35	3'LT	1
	111BRE+61	3'LT	1
	113BRE+87	3'LT	1
	116BRE+12	3'LT	1
	127BRE+47	3'LT	1
	129BRE+68	3'LT	1
	131BRE+49	3'LT	1
	132BRE+19	3'LT	1
	134BRE+35	3'LT	1
	136BRE+56	3'LT	1
	146BRE+92	3'LT	1
	148BRE+68	3'LT	1
STAGE 1C SUBTOTAL			24

CONCRETE SURFACE DRAINS (CONTINUED)

ROADWAY	STATION	OFFSET	416.1010 CONCRETE SURFACE DRAIN CY
STAGE 2			
BRAUN ROAD	76BRW+78	3'RT	1
	79BRW+06	3'RT	1
	79BRW+76	3'RT	1
	81BRW+62	3'RT	1
	85BRW+53	3'RT	1
	87BRW+74	3'RT	1
	90BRW+31	3'RT	1
	91BRW+01	3'RT	1
	92BRW+53	3'RT	1
	94BRW+70	3'RT	1
	105BRW+05	3'RT	1
	107BRW+04	3'RT	1
	109BRW+34	3'RT	1
	111BRW+60	3'RT	1
	113BRW+87	3'RT	1
	116BRW+12	3'RT	1
	127BRW+46	3'RT	1
	129BRW+67	3'RT	1
	131BRW+49	3'RT	1
	132BRW+19	3'RT	1
	134BRW+35	3'RT	1
	136BRW+56	3'RT	1
	146BRW+91	3'RT	1
	148BRW+67	3'RT	1
STAGE 2 SUBTOTAL			24
PROJECT 2704-09-70 TOTALS			48

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ASPHALT ITEMS

ROADWAY	STATION			OFFSET	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAY AND FIELD ENTRANCES* TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	495.1000.S COLD PATCH TON
STAGE 1A												
BRAUN ROAD	93BRW+50	-	154BRW+22	LT/RT	--	--	--	--	--	--	3,249	--
STAGE 1A SUBTOTAL					--	--	--	--	--	--	3,249	--
							--	--				
STAGE 1B							--	--				
BRAUN ROAD	74BRW+41	-	89BRW+49	RT	--	--	--	--	--	--	1,470	--
	121BRE+07	-	121BRE+58	RT	--	--	--	--	--	--	40	--
	121BRE+73	-	121BRE+85	RT	--	--	--	--	--	--	8	--
	122BRE+21	-	122BRE+52	RT	--	--	--	--	--	--	32	--
	141BRE+76	-	142BRE+27	RT	--	--	--	--	--	--	40	--
	142BRE+42	-	142BRE+54	RT	--	--	--	--	--	--	8	--
	142BRE+66	-	142BRE+93	RT	--	--	--	--	--	--	31	--
STAGE 1B SUBTOTAL					--	--	--	--	--	--	1,629	--
STAGE 1C												
BRAUN ROAD	99BRE+87	-	100BRE+38	RT	--	--	--	--	--	--	40	--
	100BRE+53	-	100BRE+65	RT	--	--	--	--	--	--	8	--
	100BRE+77	-	101BRE+04	RT	--	--	--	--	--	--	31	--
STAGE 1C SUBTOTAL					--	--	--	--	--	--	79	--
STAGE 2												
	121BRW+31	-	121BRW+61	LT	--	--	--	--	--	--	32	--
	121BRW+73	-	121BRW+85	LT	--	--	--	--	--	--	18	--
	121BRW+97	-	122BRW+09	LT	--	--	--	--	--	--	6	--
	122BRW+24	-	122BRW+75	LT	--	--	--	--	--	--	40	--
STAGE 2 SUBTOTAL					--	--	--	--	--	--	96	--
UNDISTRIBUTED					2,000	--	--	--	--	--	--	253
PROJECT 2704-09-70 TOTALS					2,000	--	--	--	--	--	5,053	253

CURB & GUTTER ITEMS

ROADWAY	STATION			OFFSET	601.0409 CONCRETE CURB AND GUTTER 30-INCH TYPE A LF	601.0555 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A LF	601.0557 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
STAGE 1B								
BRAUN ROAD	120BRE+30	--	121BRE+55	LT	--	126	--	--
	120BRE+30	--	121BRE+55	LT	--	126	--	--
	120BRE+29	--	121BRE+19	RT	98	--	--	--
	122BRE+53	--	123BRE+70	RT	135	--	--	--
	121BRE+56			6.0' LT	--	--	--	8
	122BRE+81			6.0' LT	--	--	--	40
	122BRE+83	--	123BRE+70	LT	87	--	--	--
	122BRE+83	--	123BRE+70	LT	87	--	--	--
	141BRE+08	--	141BRE+88	RT	89	--	--	--
	141BRE+07	--	142BRE+24	LT	117	--	--	--
	142BRE+98	--	144BRE+14	LT	87	--	--	--
	143BRE+27	--	144BRE+14	LT	87	--	--	--
STAGE 1B SUBTOTAL					787	252	--	48
STAGE 1C								
BRAUN ROAD	71BRE+75	--	76BRE+72	LT	497	--	--	--
	71BRE+75	--	100BRE+13	RT	2,834	--	--	--
	76BRE+84	--	79BRE+00	LT	216	--	--	--
	79BRE+12	--	79BRE+70	LT	58	--	--	--
	79BRE+82	--	80BRE+56	LT	174	--	--	--
	81BRE+68	--	85BRE+47	LT	379	--	--	--
	85BRE+60	--	87BRE+68	LT	209	--	--	--
	87BRE+80	--	90BRE+26	LT	246	--	--	--
	90BRE+38	--	90BRE+96	LT	58	--	--	--
	91BRE+08	--	92BRE+47	LT	139	--	--	--
	92BRE+59	--	94BRE+65	LT	206	--	--	--
	94BRE+77	--	100BRE+35	LT	559	--	--	--
	99BRE+92			41.6'RT	--	--	--	17
	99BRE+94	--	100BRE+36	RT	86	--	--	--
	99BRE+94	--	100BRE+33	RT	39	--	--	--
	100BRE+35			39.7' RT	--	--	--	4
	100BRE+61			61.8' RT	--	--	--	19
	1003FC1A+66	--	1003FC1A+66	RT	18	--	--	--
	100BRE+81			39.7' RT	--	--	--	4
	1003FC1B+66	--	1003F1B+83	LT	18	--	--	--
	1003FC1B+89	--	1003FC1B+48	RT	41	--	--	--
	100BRE+83	--	101BRE+01	RT	62	--	--	--
	101BRE+09	--	120BRE+29	RT	1,940	--	--	--
	101BRE+38	--	105BRE+00	LT	361	--	--	--
	105BRE+12	--	106BRE+98	LT	187	--	--	--
	107BRE+10	--	109BRE+29	RT	218	--	--	--
	109BRE+41	--	111RBE+55	LT	214	--	--	--
	111BRE+67	--	113BRE+81	LT	214	--	--	--
	113BRE+93	--	116BRE+06	LT	213	--	--	--

CURB & GUTTER ITEMS (CONTINUED)

ROADWAY	STATION			OFFSET	601.0409 CONCRETE CURB AND GUTTER 30-INCH TYPE A LF	601.0555 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A LF	601.0557 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
	116BRE+17	--	117BRE+36	LT	118	--	--	--
	123BRE+70	--	127BRE+41	LT	371	--	--	--
	123BRE+70	--	124BRE+44	LT	74	--	--	--
	123BRE+70	--	141BRE+08	RT	1,738	--	--	--
	127BRE+53	--	129BRE+62	LT	210	--	--	--
	129BRE+74	--	131BRE+43	LT	170	--	--	--
	131BRE+55	--	132BRE+13	RT	58	--	--	--
	132BRE+25	--	134BRE+29	LT	204	--	--	--
	134BRE+41	--	136BRE+50	LT	209	--	--	--
	136BRE+62	--	141BRE+07	LT	446	--	--	--
	144BRE+14	--	146BRE+92	LT	278	--	--	--
	144BRE+14	--	149BRE+84	RT	570	--	--	--
	144BRE+14	--	148BRE+62	LT	158	--	--	--
	148BRE+74	--	149BRE+84	LT	110	--	--	--
STAGE 1C SUBTOTAL					13,897	0	--	44
STAGE 2								
BRAUN ROAD	71BRW+75	--	76BRW+72	RT	499	--	--	--
	71BRW+75	--	73BRW+52	RT	177	--	--	--
	71BRW+75	--	73BRW+52	RT	177	--	--	--
	71BRW+75	--	121BRW+29	LT	4,973	--	--	--
	73BRW+54			6.5' RT	--	--	--	40
	76BRW+84	--	79BRW+00	RT	216	--	--	--
	79BRW+12	--	79BRW+70	RT	58	--	--	--
	79BRW+82	--	81BRW+56	RT	174	--	--	--
	81BRW+68	--	85BRW+47	RT	379	--	--	--
	85BRW+59	--	87BRW+68	RT	209	--	--	--
	87BRW+80	--	90BRW+25	RT	246	--	--	--
	90BRW+37	--	90BRW+95	RT	58	--	--	--
	91BRW+07	--	92BRW+46	RT	139	--	--	--
	92BRW+58	--	94BRW+64	RT	206	--	--	--
	94BRW+76	--	100BRW+35	RT	562	--	--	--
	100BRE+36			6.0' LT	--	--	--	15
	100BRW+82			6.0' RT	--	--	--	8
	100BRW+83	--	102BRW+76	RT	--	193	--	--
	100BRW+84	--	102BRW+76	RT	--	193	--	--
	101BRW+37			30.9' RT	--	--	--	32
	101BRE+38	--	104BRE+99	LT	362	--	--	--
	102BRW+79			6.3' RT	--	--	--	40
	105BRW+11	--	106BRW+98	RT	187	--	--	--
	107BRW+10	--	109BRW+28	RT	218	--	--	--
	109BRW+40	--	111BRW+54	RT	214	--	--	--
	111BRW+66	--	113BRW+81	RT	214	--	--	--
	113BRW+93	--	116BRW+06	RT	213	--	--	--
	116BRW+18	--	121BRW+03	RT	485	--	--	--
	117BRE+36	--	121BRE+03	LT	369	--	--	--
	119BRE+63			6.0' LT	--	--	--	40

CURB & GUTTER ITEMS (CONTINUED)

ROADWAY	STATION			OFFSET	601.0409 CONCRETE CURB AND GUTTER 30-INCH TYPE A LF	601.0555 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A LF	601.0557 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
	119BRE+65	--	120BRE+29	LT	--	64	--	--
	119BRE+65	--	120BRE+29	LT	--	64	--	--
	121BRW+05			5.9' RT	--	--	--	40
	121BRW+38	--	121BRW+55	LT	64	--	--	--
	121BRW+57			39.7' LT	--	--	--	4
	121BRW+79			41.0' LT	--	--	--	40
	4000N4A+41	--	4000N4A+82	RT	41	--	--	--
	4000N4A+43	--	4000N4A+82	LT	39	--	--	--
	4000N4A+43	--	4000N4A+82	LT	39	--	--	--
	4000N4B+72	--	4000N4B+82	RT	10	--	--	--
	4000N4B+72	--	4000N4B+82	RT	10	--	--	--
	122BRW+01			70.0' LT	--	--	--	27
	122BRW+26			6.0' RT	--	--	--	8
	122BRW+26	--	122BRW+68	LT	86	--	--	--
	122BRW+27			39.7' LT	--	--	--	4
	122BRW+27	--	124BRW+21	RT	--	194	--	--
	122BRW+27	--	124BRW+21	RT	--	194	--	--
	122BRW+29	--	122BRW+68	LT	39	--	--	--
	122BRW+63	--	149BRW+84	LT	2,731	--	--	--
	122BRW+70			41.6' LT	--	--	--	17
	124BRW+23			6.0' RT	--	--	--	40
	124BRE+44	--	127BRE+41	LT	298	--	--	--
	127BRW+52	--	129BRW+61	RT	209	--	--	--
	129BRW+73	--	131BRW+43	RT	170	--	--	--
	131BRW+55	--	132BRW+13	RT	58	--	--	--
	132BRW+25	--	134BRW+29	RT	204	--	--	--
	134BRW+41	--	136BRW+50	RT	209	--	--	--
	136BRW+61	--	142BRW+24	RT	566	--	--	--
	142BRE+25			6.0' LT	--	--	--	15
	142BRW+71			6.0' RT	--	--	--	8
	142BRW+87	--	144BRW+92	RT	--	205	--	--
	142BRW+87	--	144BRW+92	RT	--	205	--	--
	143BRE+27	--	146BRE+92	RT	367	--	--	--
	143BRE+25			5.0' LT	--	--	--	32
	144BRW+80			6.0' RT	--	--	--	40
	147BRW+04	--	148BRW+61	RT	158	--	--	--
	148BRW+73	--	149BRW+84	RT	110	--	--	--
STAGE 2 SUBTOTAL					16,343	1,915	601	1,070

3

CURB & GUTTER ITEMS (CONTINUED)

ROADWAY	STATION			OFFSET	601.0409 CONCRETE CURB AND GUTTER 30-INCH TYPE A LF	601.0555 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A LF	601.0557 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
STAGE 3								
BRAUN ROAD	121BRE+12			41.6' RT	--	--	--	17
	121BRE+14	--	121BRE+56	RT	86	--	--	--
	121BRE+14	--	121BRE+53	RT	39	--	--	--
	121BRE+55			39.7' RT	--	--	--	4
	121BRE+81			61.7' RT	--	--	--	19
	122BRE+25			39.7' RT	--	--	--	4
	122BRE+27	--	122BRE+45	RT	66	--	--	--
	3005FC2A+69	--	3005FC2A+51	RT	18	--	--	--
	3005FC2A+69	--	3005FC2A+51	RT	18	--	--	--
	3005FC2B+92	--	3005FC2B+51	RT	41	--	--	--
	141BRE+42			51.5' RT	--	--	--	17
	141BRE+83	--	142BRE+22	RT	39	--	--	--
	141BRE+83	--	142BRE+25	RT	96	--	--	--
	142BRE+23			39.7' RT	--	--	--	4
	142BRE+50			62.0' RT	--	--	--	19
	142BRE+67			39.7' RT	--	--	--	4
	142BRE+72	--	142BRE+89	RT	62	--	--	--
	5003FC3A+66	--	5003FC3+48	RT	18	--	--	--
	5003FC3B+66	--	5003FC3B+48	LT	20	--	--	--
	5003FC3B+89	--	5003FC3B+48	RT	41	--	--	--
STAGE 3 SUBTOTAL					542	--	--	89
PROJECT 2704-09-70 TOTALS					31,569	2,167	601	1,251

3

3

DELETED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	MISCELLANEOUS QUANTITIES – BRAUN ROAD	SHEET: 325 E

3

CONCRETE SIDEWALK

ROADWAY	STATION		OFFSET	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF
STAGE 1B					
BRAUN ROAD	120BRE+20	121BRE+55	LT	756	--
	121BRE+46		3.0' LT	--	20
	121BRE+46		7.0' LT	--	20
	122BRE+83	123BRE+70	LT	592	--
STAGE 1B SUBTOTAL				1,348	40
STAGE 1C					
	99BRE+94 --	100BRE+36	RT	768	--
	100BRE+18		56.5' RT	--	20
	100BRE+25		39.4' RT	--	20
	100BRE+35		46.0' RT	--	20
	100BRE+57 --	100BRE+63	RT	86	--
	100BRE+80 --	101BRE+00	RT	625	--
	100BRE+82		46.0' RT	--	20
	100BRE+91		38.5' RT	--	20
	100BRE+98		47.6' RT	--	20
STAGE 1C SUBTOTAL				1,479	120
STAGE 2					
BRAUN ROAD	71BRW+75 --	73BRW+52	RT	1,063	--
	71BRW+75 --	74BRW+18	RT	1,063	--
	100BRW+21 --	100BRW+31	RT	263	--
	100BRW+23 --	100BRW+33	LT	175	--
	100BRW+25		17.3' RT	--	20
	100BRW+25		32.3' RT	--	20
	100BRW+27		39.4' LT	--	20

CONCRETE SIDEWALK (CONTINUED)

ROADWAY	STATION	OFFSET	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF
	100BRW+83 -- 102BRW+76	RT	1,160	--
	100BRW+89 -- 100BRW+99	LT	175	--
	100BRW+92	3.0' RT	--	20
	100BRW+93	7.0' RT	--	20
	100BRW+94	39.3' LT	--	20
	101BRW+38 -- 103BRW+40	RT	1,506	--
	119BRW+02 -- 121BRW+03	RT	1,507	--
	119BRW+65 -- 120BRW+29	RT	384	--
	121BRW+03 -- 121BRW+24	LT	169	--
	121BRW+19	65.5' LT	--	20
	121BRW+36 -- 121BRW+58	LT	637	--
	121BRW+43	52.1' LT	--	20
	121BRW+47	38.5' LT	--	20
	121BRW+57	46.0' LT	--	20
	121BRW+75 -- 121BRW+86	LT	312	--
	121BRW+78	51.0' LT	--	20
	121BRW+80	51.0' LT	--	20
	121BRW+99 -- 122BRW+06	LT	64	--
	122BRW+26 -- 122BRW+68	RT	768	--
	122BRW+27	46.0' LT	--	20
	122BRW+27 -- 124BRW+21	RT	1,166	--
	122BRW+35	3.0' RT	--	20
	122BRW+36	7.0' RT	--	20
	122BRW+37	36.4' LT	--	20
	122BRW+43	57.3' LT	--	20
	124BRW+44 -- 124BRW+85	RT	381	--
	142BRW+10 -- 142BRW+20	RT	263	--
	142BRW+11 -- 142BRW+21	LT	175	--
	142BRW+14	17.5' RT	--	20
	142BRW+14	32.0' RT	--	20
	142BRW+16	40.0' LT	--	20
	142BRW+72 -- 144BRW+77	RT	1,232	--
	142BRW+78 -- 142BRW+88	LT	175	--
	142BRW+81	7.0' RT	--	20
	142BRW+82	40.0' LT	--	20
	142BRW+82	3.0' RT	--	20
	143BRW+27 -- 145BRW+40	RT	1,588	--
STAGE 2 SUBTOTAL			14,227	460

3

CONCRETE SIDEWALK (CONTINUED)

ROADWAY	STATION			OFFSET	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF
STAGE 3						
BRAUN ROAD	121BRE+14	--	121BRE+56	RT	768	--
	121BRE+39			57.1' RT	--	20
	121BRE+45			39.4' RT	--	20
	121BRE+55			46.0' RT	--	20
	121BRE+77	--	121BRE+83	RT	86	--
	122BRE+24	--	122BRE+47	RT	639	--
	122BRE+25			46.0' RT	--	20
	122BRE+35			38.5' RT	--	20
	122BRE+39			53.0' RT	--	20
	141BRE+83	--	142BRE+25	RT	768	--
	142BRE+08			56.9' RT	--	20
	142BRE+14			39.4' RT	--	20
	142BRE+24			46.0' RT	--	20
	142BRE+46	--	142BRE+52	RT	86	--
	142BRE+70	--	142BRE+89	RT	625	--
	142BRE+70			51.0' RT	--	20
	142BRE+79			38.5' RT	--	20
	142BRE+84			51.0' RT	--	20
STAGE 3 SUBTOTAL					2,972	240
PROJECT 2704-09-70 TOTALS					20,026	860

RIPRAP

STAGE	STATION	OFFSET	606.0200 RIPRAP MEDIUM* CY	645.0120 GEOTEXTILE FABRIC TYPE HR SY
STAGE 1C				
	72BRE+37	11'LT	1.2	4
	74BRE+57	11'LT	1.2	4
	76BRE+78	11'LT	1.2	4
	79BRE+6	11'LT	1.2	4
	79BRE+76	11'LT	1.2	4
	81BRE+62	11'LT	1.2	4
	84BRE+20	109' RT	29.6	44
	85BRE+58	192' RT	14.8	22
	85BRE+53	11'LT	1.2	4
	87BRE+74	11'LT	1.2	4
	90BRE+32	11'LT	1.2	4
	91BRE+2	11'LT	1.2	4
	92BRE+53	11'LT	1.2	4
	94BRE+71	11'LT	1.2	4
	104BRE+85	11'LT	1.2	4
	107BRE+5	11'LT	1.2	4
	109BRE+35	11'LT	1.2	4
	111BRE+61	11'LT	1.2	4
	113BRE+87	11'LT	1.2	4
	116BRE+12	11'LT	1.2	4
	127BRE+47	11'LT	1.2	4
	129BRE+68	11'LT	1.2	4
	131BRE+49	11'LT	1.2	4
	132BRE+20	11'LT	1.2	4
	134BRE+35	11'LT	1.2	4
	136BRE+56	11'LT	1.2	4
	146BRE+47	11'LT	1.2	4
	148BRE+67	11'LT	1.2	4
STAGE 1C SUBTOTAL			75.6	170

RIPRAP (CONTINUED)

STAGE	STATION	OFFSET	606.0200 RIPRAP MEDIUM* CY	645.0120 GEOTEXTILE FABRIC TYPE HR SY
STAGE 2B				
	72BRW+36	11'RT	1.2	4
	74BRW+56	11'RT	1.2	4
	76BRW+78	11'RT	1.2	4
	79BRW+6	11'RT	1.2	4
	79BRW+76	11'RT	1.2	4
	81BRW+62	11'RT	1.2	4
	85BRW+53	11'RT	1.2	4
	87BRW+74	11'RT	1.2	4
	90BRW+31	11'RT	1.2	4
	91BRW+1	11'RT	1.2	4
	92BRW+53	11'RT	1.2	4
	94BRW+71	11'RT	1.2	4
	104BRW+84	11'RT	1.2	4
	107BRW+4	11'RT	1.2	4
	109BRW+34	11'RT	1.2	4
	111BRW+61	11'RT	1.2	4
	113BRW+87	11'RT	1.2	4
	116BRW+12	11'RT	1.2	4
	127BRW+47	11'RT	1.2	4
	129BRW+67	11'RT	1.2	4
	131BRW+50	11'RT	1.2	4
	132BRW+19	11'RT	1.2	4
	134BRW+35	11'RT	1.2	4
	136BRW+56	11'RT	1.2	4
	146BRW+48	11'RT	1.2	4
	148BRW+68	11'RT	1.2	4
STAGE 2B SUBTOTAL			31.2	104
UNDISTRIBUTED			1	5
PROJECT 2704-09-70 TOTALS			108	279

* ADDITIONAL QUANTITES FOUND ELSEWHERE

3

FENCE SAFETY

ROADWAY	616.0700.S FENCE SAFETY LF
PROJECT 2704-09-70	
UNDISTRIBUTED	2,000
PROJECT 2704-09-70 TOTAL	2,000

MOBILIZATION

ROADWAY	619.1000 MOBILIZATION EACH
PROJECT 2704-09-70	1
PROJECT 2704-09-70 TOTAL:	1

WATER

ROADWAY	624.0110* WATER MGAL
PROJECT 2704-09-70	2,599
PROJECT 2704-09-70 TOTAL:	2,599

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

RESTORATION ITEMS

STAGE	STATION			OFFSET	SPV.0180.001 TOPSOIL SPECIAL SY	627.0200 MULCHING SY	628.6510 SOIL STABILIZER TYPE B ACRE	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB
STAGE 1A										
	89BRW+92	-	124BRW+00	RT/LT	9,727	--	--	6.25	175	175
	124BRW+74	-	138BRW+78	RT/LT	3,312	--	--	2.25	60	60
	139BRW+43	-	154BRW+83	RT/LT	2,178	--	--	1.50	39	39
STAGE 1A SUBTOTAL					15,217	--	--	10.00	274	274
STAGE 1B										
	74BRW+60	-	89BRW+49	RT/LT	5,399	--	--	3.50	97	97
	120BRE+30	-	121BRE+17	RT	427	--	--	0.50	8	8
	122BRE+56	-	123BRE+70	RT	666	--	--	0.50	12	12
	141BRE+07	-	141BRE+87	RT	227	--	--	0.25	4	4
	142BRE+99	-	144BRE+14	RT	310	--	--	0.25	6	6
STAGE 1B SUBTOTAL					7,029	--	--	5.00	127	127
STAGE 1C										
	71BRE+30	-	88BRE+64	RT	8,897	--	--	5.75	160	160
	83BRE+35	-	85BRE+95	RT	4,891	--	--	3.25	88	88
	88BRE+64	-	99BRE+99	RT	5,657	--	--	3.75	102	102
	101BRE+09	-	121BRE+13	RT	10,621	--	--	6.75	191	191
	123BRE+70	-	141BRE+07	RT	9,622	--	--	6.25	173	173
	143BRE+14	-	154BRE+89	RT	3,076	--	--	2.00	55	55
STAGE 1C SUBTOTAL					42,764	--	--	27.75	769	769
STAGE 2										
	71BRW+30	-	90BRW+56	LT	8,009	--	--	5.25	144	144
	71BRE+31	-	72BRE+36	LT	468	--	--	0.50	8	8
	72BRE+36	-	74BRE+55	LT	786	--	--	0.50	14	14
	74BRE+55	-	76BRE+76	LT	668	--	--	0.50	12	12
	76BRE+76	-	79BRE+06	LT	683	--	--	0.50	12	12
	79BRE+08	-	79BRE+74	LT	39	--	--	0.25	1	1
	79BRW+08	-	79BRW+74	RT	40	--	--	0.25	1	1
	79BRE+06	-	81BRE+63	LT	539	--	--	0.50	10	10
	81BRE+63	-	85BRE+52	LT	1,298	--	--	1.00	23	23
	85BRE+52	-	87BRE+72	LT	659	--	--	0.50	12	12
	87BRE+72	-	90BRE+30	LT	785	--	--	0.50	14	14
	90BRW+74	-	99BRW+90	LT	5,463	--	--	3.50	98	98
	90BRW+33	-	90BRW+99	RT	33	--	--	0.25	1	1
	90BRE+34	-	91BRE+00	LT	47	--	--	0.25	1	1
	90BRE+30	-	92BRE+55	LT	420	--	--	0.50	8	8
	92BRE+55	-	94BRE+73	LT	649	--	--	0.50	12	12
	94BRE+73	-	98BRE+12	LT	877	--	--	0.75	16	16
	101BRW+10	-	120BRW+99	LT	7,921	--	--	5.00	143	143
	121BRW+00	-	121BRW+28	LT	124	--	--	0.25	2	2
	103BRE+07	-	104BRE+97	LT	329	--	--	0.25	6	6

3

RESTORATION ITEMS (CONTINUED)

STAGE	STATION			OFFSET	SPV.0180.001 TOPSOIL SPECIAL SY	627.0200 MULCHING SY	628.6510 SOIL STABILIZER TYPE B ACRE	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB
	104BRE+87	-	107BRE+07	LT	588	--	--	0.50	11	11
	107BRE+87	-	109BRE+37	LT	692	--	--	0.50	12	12
	109BRE+37	-	111BRE+63	LT	678	--	--	0.50	12	12
	111BRE+64	-	113BRE+90	LT	678	--	--	0.50	12	12
	113BRE+92	-	116BRE+14	LT	673	--	--	0.50	12	12
	116BRE+14	-	119BRE+32	LT	814	--	--	0.75	15	15
	122BRW+58	-	123BRW+14	LT	181	--	--	0.25	3	3
	122BRW+94	-	141BRW+44	LT	8,280	--	--	5.25	149	149
	141BRW+44	-	141BRW+97	LT	137	--	--	0.25	2	2
	124BRE+77	-	127BRE+45	LT	718	--	--	0.50	13	13
	127BRE+45	-	129BRE+66	LT	659	--	--	0.50	12	12
	129BRE+66	-	131BRE+47	LT	524	--	--	0.50	9	9
	131BRE+51	-	132BRE+17	LT	40	--	--	0.25	1	1
	131BRW+51	-	132BRW+17	RT	39	--	--	0.25	1	1
	131BRE+47	-	134BRE+37	LT	642	--	--	0.50	12	12
	134BRE+37	-	136BRE+58	LT	659	--	--	0.50	12	12
	136BRE+58	-	140BRE+01	LT	890	--	--	0.75	16	16
	143BRW+09	-	143BRW+38	LT	29	--	--	0.25	1	1
	143BRW+41	-	154BRW+31	LT	2,804	--	--	2.00	50	50
	145BRE+37	-	146BRE+92	LT	347	--	--	0.25	6	6
	146BRE+93	-	148BRE+66	LT	494	--	--	0.50	9	9
	148BRE+66	-	148BRE+84	LT	325	--	--	0.25	6	6
STAGE 2 SUBTOTAL					50,728	--	--	37.50	914	914
UNDISTRIBUTED					28,935	14,500	8	4.00	104	104
PROJECT 2704-09-70 TOTALS					144,673	14,500	8	84	2,188	2,188

EROSION CONTROL

STAGE	STATION			OFFSET	628.1104 EROSION BALES EACH	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.6005 TURBIDITY BARRIER SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH
STAGE 1A											
	89BRW+92	-	124BRW+00	RT/LT	--	--	--	9,727	--	--	--
	90BRW+52	-	91BRW+63	LT	--	--	--	--	--	--	--
	124BRW+74	-	138BRW+78	RT/LT	--	--	--	3,312	--	--	--
	127BRW+55	-	128BRW+39	LT	35	--	--	--	--	--	--
	131BRW+66	-	132BRW+30	LT	26	--	--	--	--	--	--
	139BRW+43	-	154BRW+83	RT/LT	--	--	--	2,178	--	--	--
	154BRW+46	-	154BRW+83	LT	7	--	--	--	--	--	--
STAGE 1A SUBTOTAL					68	--	--	15,217	--	--	--
STAGE 1B											
	74BRW+60	-	89BRW+49	RT/LT	--	--	--	5,398	--	--	--
	74BRW+51	-	74BRW+79	LT	11	--	--	--	--	--	--
	87BRE+52	-	89BRE+37	RT/LT	--	--	--	--	257	--	--
	87BRE+62	-	89BRE+19	RT/LT	--	--	--	--	224	--	--
	88BRE+43	-	90BRE+50	LT	87	--	--	--	--	--	--
	89BRE+68			68' LT	--	--	--	--	224	--	1
	89BRE+99	-	91BRE+43	LT	--	--	--	--	224	--	--
	90BRE+01	-	91BRE+42	LT	--	--	--	--	--	--	--
	120BRE+30	-	121BRE+17	RT/LT	--	--	--	427	--	--	--
	122BRE+56	-	123BRE+70	RT/LT	--	--	--	666	--	--	--
	123BRE+40			69' RT	--	--	--	--	--	8	--
	141BRE+07	-	141BRE+87	RT/LT	--	--	--	227	--	--	--
	142BRE+99	-	144BRE+14	RT	--	--	--	310	--	--	--
	143BRE+60			75' RT	--	--	--	--	--	8	--
	143BRE+99			75' RT	--	--	--	--	--	8	--
STAGE 1B SUBTOTAL					98	--	--	7,028	929	24	1
STAGE 1C											
	71BRE+30	-	88BRE+64	RT/LT	--	--	--	8,897	--	--	--
	71BRE+50			81' RT	--	--	--	--	--	8	--
	72BRE+37			9' LT	--	--	--	--	--	8	--
	73BRE+35			74' RT	--	--	--	--	--	8	--
	74BRE+56			9' LT	--	--	--	--	--	8	--
	75BRE+21			73' RT	--	--	--	--	--	8	--
	76BRE+69			79' RT	--	--	--	--	--	8	--
	76BRE+78			9' LT	--	--	--	--	--	8	--
	77BRE+00			85' RT	--	--	--	--	--	8	--
	78BRE+94			91' RT	--	--	--	--	--	8	--
	79BRE+06			9' LT	--	--	--	--	--	8	--
	79BRE+76			9' LT	--	--	--	--	--	8	--
	80BRE+27			83' RT	--	--	--	--	--	8	--

EROSION CONTROL (CONTINUED)

STAGE	STATION	OFFSET	628.1104 EROSION BALES EACH	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2006 EROSION MAT URBAN CLASS I TYPE B SY	628.6005 TURBIDITY BARRIER SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH
	80BRE+99	78' RT	--	--	--	--	--	8	--
	81BRE+62	9' LT	--	--	--	--	--	8	--
	82BRE+45	76' RT	--	--	--	--	--	8	--
	83BRE+25	79' RT	--	--	--	--	--	8	--
	83BRE+35 - 85BRE+95	RT	--	--	--	4,891	--	--	--
	85BRE+53	9' LT	--	--	--	--	--	8	--
	87BRE+74	9' LT	--	--	--	--	--	8	--
	88BRE+62 - 99BRE+99	RT/LT	--	--	--	5,657	--	--	--
	88BRE+86 - 88BRE+98	RT	8	--	--	--	--	--	--
	90BRE+32	9' LT	--	--	--	--	--	8	--
	90BRE+46	91' RT	--	--	--	--	--	8	--
	91BRE+02	9' LT	--	--	--	--	--	8	--
	92BRE+43	78' RT	--	--	--	--	--	8	--
	92BRE+53	9' LT	--	--	--	--	--	8	--
	94BRE+03	66' RT	--	--	--	--	--	8	--
	94BRE+71	9' LT	--	--	--	--	--	8	--
	95BRE+97	66' RT	--	--	--	--	--	8	--
	97BRE+99	78' RT	--	--	--	--	--	8	--
	101BRE+09 - 121BRE+12	RT/LT	--	--	--	10,621	--	--	--
	102BRE+00	68' RT	--	--	--	--	--	8	--
	103BRE+98	66' RT	--	--	--	--	--	8	--
	105BRE+06	9' LT	--	--	--	--	--	8	--
	105BRE+99	66' RT	--	--	--	--	--	8	--
	107BRE+04	9' LT	--	--	--	--	--	8	--
	107BRE+97	67' RT	--	--	--	--	--	8	--
	109BRE+35	9' LT	--	--	--	--	--	8	--
	109BRE+95	66' RT	--	--	--	--	--	8	--
	111BRE+61	9' LT	--	--	--	--	--	8	--
	111BRE+98	66' RT	--	--	--	--	--	8	--
	113BRE+87	9' LT	--	--	--	--	--	8	--
	113BRE+97	66' RT	--	--	--	--	--	8	--
	115BRE+71	66' RT	--	--	--	--	--	8	--
	116BRE+12	9' LT	--	--	--	--	--	8	--
	117BRE+79	66' RT	--	--	--	--	--	8	--
	119BRE+64	78' RT	--	--	--	--	--	8	--
	123BRE+70 - 141BRE+07	RT/LT	--	--	--	9,622	--	--	--
	124BRE+97	66' RT	--	--	--	--	--	8	--
	126BRE+40	66' RT	--	--	--	--	--	8	--
	127BRE+47	9' LT	--	--	--	--	--	8	--
	127BRE+98	66' RT	--	--	--	--	--	8	--
	129BRE+39	66' RT	--	--	--	--	--	8	--
	129BRE+67	9' LT	--	--	--	--	--	8	--
	131BRE+49	9' LT	--	--	--	--	--	8	--
	132BRE+19	9' LT	--	--	--	--	--	8	--
	134BRE+17	66' RT	--	--	--	--	--	8	--
	134BRE+35	9' LT	--	--	--	--	--	8	--
	135BRE+99	66' RT	--	--	--	--	--	8	--
	136BRE+56	9' LT	--	--	--	--	--	8	--

EROSION CONTROL (CONTINUED)

STAGE	STATION		OFFSET	628.1104 EROSION BALES EACH	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2006 EROSION MAT URBAN CLASS I TYPE B SY	628.6005 TURBIDITY BARRIER SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH
	137BRE+98		66' RT	--	--	--	--	--	8	--
	143BRE+14	- 154BRE+89	RT/LT	--	--	--	3,076	--	--	--
	144BRE+98		75' RT	--	--	--	--	--	8	--
	146BRE+96		72' RT	--	--	--	--	--	8	--
	146BRE+97		9' LT	--	--	--	--	--	8	--
	148BRE+68		9' LT	--	--	--	--	--	8	--
	148BRE+99		74' RT	--	--	--	--	--	8	--
	150BRE+94		37' RT	--	--	--	--	--	8	--
STAGE 1C SUBTOTAL				8	--	--	42,764	--	496	--
STAGE 2										
	71BRW+30	90BRW+56	LT	--	--	--	8,009	--	--	--
	71BRE+31	- 72BRE+36	LT	--	--	--	468	--	--	--
	72BRW+01		66 'LT	--	--	--	--	--	8	--
	72BRW+36		9' RT	--	--	--	--	--	8	--
	72BRE+36	- 74BRE+55	LT	--	--	--	786	--	--	--
	74BRW+00		66' LT	--	--	--	--	--	8	--
	74BRE+55	- 76BRE+76	LT	--	--	--	668	--	--	--
	74BRW+56		9' RT	--	--	--	--	--	8	--
	75BRW+98		66' LT	--	--	--	--	--	8	--
	76BRE+76	- 79BRE+06	LT	--	--	--	683	--	--	--
	76BRW+78		9' RT	--	--	--	--	--	8	--
	77BRW+95		65' LT	--	--	--	--	--	8	--
	79BRW+06		9' RT	--	--	--	--	--	8	--
	79BRE+06	- 81BRE+63	LT	--	--	--	539	--	--	--
	79BRE+08	- 79BRE+74	LT	--	--	--	39	--	--	--
	79BRW+08	- 79BRW+74	RT	--	--	--	40	--	--	--
	79BRW+76		9' RT	--	--	--	--	--	8	--
	81BRW+52		9' RT	--	--	--	--	--	8	--
	81BRE+63	- 85BRE+52	LT	--	--	--	1,298	--	--	--
	84BRW+03		66 'LT	--	--	--	--	--	8	--
	85BRE+52	- 87BRE+72	LT	--	--	--	659	--	--	--
	85BRW+53		9' RT	--	--	--	--	--	8	--
	85BRW+98		66' LT	--	--	--	--	--	8	--
	86BRW+85		74' LT	--	--	--	--	--	8	--
	87BRE+72	- 90BRE+30	LT	--	--	--	785	--	--	--
	87BRW+74		9' RT	--	--	--	--	--	8	--
	87BRW+99		94' LT	--	--	--	--	--	8	--
	89BRW+00	- 90BRW+59	LT	64	--	--	--	--	--	--
	89BRW+95		95' LT	--	--	--	--	--	8	--
	90BRE+30	- 92BRE+55	LT	--	--	--	420	--	--	--
	90BRW+31		9' RT	--	--	--	--	--	8	--
	90BRW+33	- 90BRW+99	RT	--	--	--	33	--	--	--
	90BRE+34	- 91BRE+00	LT	--	--	--	47	--	--	--

EROSION CONTROL (CONTINUED)

STAGE	STATION	OFFSET	628.1104 EROSION BALES EACH	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2006 EROSION MAT URBAN CLASS I TYPE B SY	628.6005 TURBIDITY BARRIER SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH
	90BRW+52 100BRW+09	LT	--	--	--	5,463	--	--	--
	91BRW+01	9' RT	--	--	--	--	--	8	--
	92BRW+15 - 92BRW+64	LT	19	--	--	--	--	--	--
	92BRW+50	98' LT	--	--	--	--	--	8	--
	92BRW+52	9' RT	--	--	--	--	--	8	--
	92BRE+55 - 94BRE+73	LT	--	--	--	649	--	--	--
	94BRW+43	96' LT	--	--	--	--	--	8	--
	94BRW+70	9' RT	--	--	--	--	--	8	--
	94BRE+73 - 98BRE+12	LT	--	--	--	877	--	--	--
	95BRW+43	90' LT	--	--	--	--	--	8	--
	95BRW+100	84' LT	--	--	--	--	--	8	--
	97BRW+21	80' LT	--	--	--	--	--	8	--
	99BRW+42	80' LT	--	--	--	--	--	8	--
	101BRW+10 120BRW+99	LT	--	--	--	7,921	--	--	--
	102BRW+01	92' LT	--	--	--	--	--	8	--
	103BRE+07 - 104BRE+97	LT	--	--	--	329	--	--	--
	103BRW+100	88' LT	--	--	--	--	--	8	--
	104BRW+84	9' RT	--	--	--	--	--	8	--
	104BRE+87 - 107BRE+07	LT	--	--	--	588	--	--	--
	105BRW+48	76' LT	--	--	--	--	--	8	--
	106BRW+65	71' LT	--	--	--	--	--	8	--
	107BRW+04	10' RT	--	--	--	--	--	8	--
	107BRW+59	67' LT	--	--	--	--	--	8	--
	107BRE+87 - 109BRE+37	LT	--	--	--	692	--	--	--
	109BRW+34	9' RT	--	--	--	--	--	8	--
	109BRE+37 - 111BRE+63	LT	--	--	--	678	--	--	--
	109BRW+57	66' LT	--	--	--	--	--	8	--
	111BRW+54	66' LT	--	--	--	--	--	8	--
	111BRW+60	9' RT	--	--	--	--	--	8	--
	111BRE+64 - 113BRE+90	LT	--	--	--	678	--	--	--
	113BRW+53	65' LT	--	--	--	--	--	8	--
	113BRW+87	9' RT	--	--	--	--	--	8	--
	113BRE+92 - 116BRE+14	LT	--	--	--	673	--	--	--
	115BRW+55	66' LT	--	--	--	--	--	8	--
	116BRW+12	9' RT	--	--	--	--	--	8	--
	116BRE+14 - 119BRE+32	LT	--	--	--	814	--	--	--
	121BRW+00 - 121BRW+28	LT	--	--	--	124	--	--	--
	122BRW+56 - 123BRW+14	LT	--	--	--	181	--	--	--
	122BRW+94 141BRW+44	LT	--	--	--	8,280	--	--	--
	123BRW+68	78' LT	--	--	--	--	--	8	--
	124BRE+77 - 127BRE+45	LT	--	--	--	718	--	--	--
	124BRW+100	76' LT	--	--	--	--	--	8	--
	126BRW+44	66' LT	--	--	--	--	--	8	--

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EROSION CONTROL (CONTINUED)

STAGE	STATION		OFFSET	628.1104 EROSION BALES EACH	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2006 EROSION MAT URBAN CLASS I TYPE B SY	628.6005 TURBIDITY BARRIER SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH
	127BRW+27	- 128BRW+48	LT	49	--	--	--	--	--	--
	127BRE+45	- 129BRE+66	LT	--	--	--	659	--	--	--
	127BRW+46		9' RT	--	--	--	--	--	8	--
	128BRW+01		64' LT	--	--	--	--	--	8	--
	128BRW+100		66' LT	--	--	--	--	--	8	--
	129BRE+66	- 131BRE+47	LT	--	--	--	524	--	--	--
	129BRW+67		10' RT	--	--	--	--	--	8	--
	129BRW+72		71' LT	--	--	--	--	--	8	--
	131BRE+47	- 134BRE+37	LT	--	--	--	642	--	--	--
	131BRW+49		9' RT	--	--	--	--	--	8	--
	131BRE+51	- 132BRE+17	LT	--	--	--	40	--	--	--
	131BRW+51	- 132BRW+17	RT	--	--	--	39	--	--	--
	131BRW+60	- 132BRW+14	LT	22	--	--	--	--	--	--
	131BRW+61		73' LT	--	--	--	--	--	8	--
	132BRW+17		9' RT	--	--	--	--	--	8	--
	133BRW+75		73' LT	--	--	--	--	--	8	--
	134BRE+37	- 136BRE+58	LT	--	--	--	659	--	--	--
	135BRW+75		72' LT	--	--	--	--	--	8	--
	136BRW+56		9' RT	--	--	--	--	--	8	--
	136BRE+58	- 140BRE+01	LT	--	--	--	890	--	--	--
	137BRW+75		71' LT	--	--	--	--	--	8	--
	139BRW+69		67' LT	--	--	--	--	--	8	--
	141BRW+33		80' LT	--	--	--	--	--	8	--
	141BRW+44	- 141BRW+97	LT	--	--	--	137	--	--	--
	143BRW+09	- 143BRW+38	LT	--	--	--	29	--	--	--
	143BRW+41	154BRW+31	LT	--	--	--	2,804	--	--	--
	145BRE+37	- 146BRE+92	LT	--	--	--	347	--	--	--
	146BRE+93	- 148BRE+66	LT	--	--	--	494	--	--	--
	146BRW+97		9' RT	--	--	--	--	--	8	--
	148BRE+66	- 148BRE+84	LT	--	--	--	325	--	--	--
	148BRW+67		9' RT	--	--	--	--	--	8	--
STAGE 2 SUBTOTAL				154	--	--	50,728	--	488	--
UNDISTRIBUTED				80	12	15	28,935	232	128	--
PROJECT 2704-09-70 TOTALS				408	12	15	144,673	1,161	1,136	1

SILT FENCE

STAGE	STATION			OFFSET	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	SPV.0090.001 HEAVY DUTY SILT FENCE LF
STAGE 1A							
	91BRW+63	-	124BRW+03	LT	3,407	3,407	--
	124BRW+72	-	127BRW+55	LT	284	284	--
	127BRW+55	-	128BRW+39	LT	--	--	87
	128BRW+39	-	131BRW+66	LT	334	334	--
	131BRW+66	-	132BRW+30	LT	--	--	68
	132BRW+30	-	138BRW+81	LT	664	664	--
	139BRW+40	-	154BRW+46	LT	1,532	1,532	--
	154BRW+46	-	154BRW+83	LT	--	--	18
STAGE 1A SUBTOTAL					6,221	6,221	173
STAGE 1B							
	74BRW+51	-	74BRW+79	LT	--	--	28
	74BRW+79	-	88BRW+43	LT	1,383	1,383	--
	88BRW+43	-	90BRW+50	LT	--	--	217
	120BRE+40	-	121BRE+31	RT	113	113	--
	122BRE+52	-	123BRE+70	RT	132	132	--
	140BRE+07	-	142BRE+92	RT	86	86	--
	142BRE+97	-	144BRE+14	RT	118	118	--
STAGE 1B SUBTOTAL					1,831	1,831	245
STAGE1C							
	71BRE+30	-	72BRE+49	RT	123	123	--
	72BRE+50	-	83BRE+28	RT	1,078	1,078	--
	83BRE+25	-	87BRE+81	RT	--	--	773
	88BRE+80	-	89BRE+12	RT	--	--	75
	89BRE+26	-	99BRE+83	RT	1,111	1,111	--
	100BRE+08	-	120BRE+30	RT	1,931	1,931	--
	123BRE+70	-	141BRE+07	RT	1,747	1,747	--
	144BRE+14	-	154BRE+90	RT	1,116	1,116	--
STAGE 1C SUBTOTAL					7,106	7,106	848
STAGE 2							
	71BRW+30	-	89BRW+00	LT	1,843	1,843	--
	89BRW+00	-	90BRW+59	LT	--	--	160
	92BRW+15	-	92BRW+64	LT	--	--	48
	92BRW+64	-	100BRW+10	LT	748	748	--
	101BRW+10	-	120BRW+99	LT	2,000	2,000	--
	120BRW+99	-	121BRW+29	LT	65	65	--
	122BRW+58	-	123BRW+18	LT	77	77	--
	123BRW+18	-	127BRW+27	LT	412	412	--
	127BRW+27	-	128BRW+48	LT	--	--	122
	128BRW+48	-	131BRW+60	LT	317	317	--
	131BRW+60	-	132BRW+14	LT	--	--	54
	132BRW+14	-	141BRW+44	LT	932	932	--
	141BRW+44	-	141BRW+99	LT	55	55	--
	143BRW+04	-	141BRW+43	LT	37	37	--
	143BRW+41	-	154BRW+34	LT	1,121	1,121	--
STAGE 2 SUBTOTAL					7,607	7,607	384
UNDISTRIBUTED					5,691	5,691	412
PROJECT 2704-09-70 TOTALS					28,456	28,456	2,062

INLET PROTECTION

STAGE	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7020 INLET PROTECTION TYPE D EACH
STAGE 1B				
	121BRE+05	68.2' RT	1	1
	141BRE+76	70.4' RT	1	1
	141BRE+88	1.0' LT	1	1
STAGE 1B SUBTOTAL			3	3
STAGE 1C				
	72BRE+62	1.5' LT	1	1
	72BRE+63	37.5' RT	1	1
	74BRE+82	1.0' LT	1	1
	74BRE+82	37.5' RT	1	1
	77BRE+03	1.5' LT	1	1
	77BRE+05	37.5' RT	1	1
	77BRE+99	37.5' RT	1	1
	79BRE+09	37.5' RT	1	1
	79BRE+21	1.0' LT	1	1
	79BRE+52	1.0' LT	1	1
	79BRE+52	37.5' RT	1	1
	79BRE+77	37.0' RT	1	1
	81BRE+37	1.2' LT	1	1
	81BRE+37	35.3' RT	1	1
	82BRE+91	35.0' RT	1	1
	85BRE+79	0.9' LT	1	1
	85BRE+79	37.5' RT	1	1
	87BRE+99	1.0' LT	1	1
	88BRE+00	38.0' RT	1	1
	89BRE+54	37.3' RT	1	1
	90BRE+35	37.5' RT	1	1
	90BRE+48	1.0' LT	1	1
	90BRE+73	37.3' RT	1	1
	90BRE+74	1.0' LT	1	1
	91BRE+40	37.5' RT	1	1
	92BRE+28	1.5' LT	1	1
	92BRE+29	37.5' RT	1	1
	94BRE+46	1.0' LT	1	1
	94BRE+46	37.5' RT	1	1
	96BRE+45	3.5' LT	1	1
	96BRE+46	37.5' RT	1	1
	98BRE+75	1.1' LT	1	1
	98BRE+76	49.7' RT	1	1
	100BRE+00	38.8' RT	1	1
	100BRE+37	65.9' RT	1	1
	101BRE+29	50.4' RT	1	1

INLET PROTECTION (CONTINUED)

STAGE	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7020 INLET PROTECTION TYPE D EACH
	101BRE+43	0.9' LT	1	1
	103BRE+15	1.5' LT	1	1
	103BRE+15	37.8' RT	1	1
	104BRE+81	1.5' LT	1	1
	104BRE+81	37.6' RT	1	1
	106BRE+79	1.5' LT	1	1
	106BRE+80	37.5' RT	1	1
	109BRE+10	1.5' LT	1	1
	109BRE+10	37.0' RT	1	1
	111BRE+37	1.0' LT	1	1
	111BRE+38	37.5' RT	1	1
	113BRE+63	1.0' LT	1	1
	113BRE+63	37.0' RT	1	1
	115BRE+88	1.5' LT	1	1
	115BRE+88	37.5' RT	1	1
	117BRE+72	37.7' RT	1	1
	119BRE+88	1.2' LT	1	1
	119BRE+88	49.3' RT	1	1
	124BRE+00	0.8' LT	1	1
	124BRE+01	37.3' RT	1	1
	125BRE+78	1.0' LT	1	1
	125BRE+79	37.5' RT	1	1
	172BRE+72	1.0' LT	1	1
	127BRE+73	37.3' RT	1	1
	129BRE+93	1.8' LT	1	1
	129BRE+93	37.5' RT	1	1
	131BRE+55	37.5' RT	1	1
	131BRE+75	1.0' LT	1	1
	131BRE+75	37.5' RT	1	1
	131BRE+96	37.0' RT	1	1
	132BRE+05	1.5' LT	1	1
	134BRE+10	1.5' LT	1	1
	134BRE+11	37.5' RT	1	1
	136BRE+31	1.0' LT	1	1
	136BRE+31	37.5' RT	1	1
	138BRE+37	37.5' RT	1	1
	144BRE+55	1.1' LT	1	1
	144BRE+56	38.2' RT	1	1
	147BRE+17	1.2' LT	1	1
	147BRE+17	36.8' RT	1	1
	148BRE+92	1.5' LT	1	1
	148BRE+92	37.0' RT	1	1
STAGE 1C SUBTOTAL			78	78

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INLET PROTECTION (CONTINUED)

STAGE	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7020 INLET PROTECTION TYPE D EACH
STAGE 2A				
	122BRW+25	66.8' LT	1	1
	122BRW+63	38.4' LT	1	1
	122BRW+81	65.9' LT	1	1
	141BRW+76	50.5' LT	1	1
	142BRW+28	72.0'LT	1	1
	142BRW+70	65.4' LT	1	1
	143BRW+06	38.8' LT	1	1
STAGE 2A SUBTOTAL			7	7
STAGE 2B				
	72BRW+62	37.0' LT	1	1
	72BRW+62	1.2' RT	1	1
	72BRW+62	22.1' RT	1	--
	74BRW+80	37.5' LT	1	1
	74BRW+81	1.0' RT	1	1
	74BRW+82	18.9' RT	1	--
	77BRW+02	37.5' LT	1	1
	77BRW+03	1.5' RT	1	1
	77BRW+03	18.6' RT	1	--
	79BRW+08	37.0' LT	1	1
	79BRW+20	1.5' RT	1	1
	79BRW+52	37.2' LT	1	1
	79BRW+52	1.5' RT	1	1
	79BRW+52	18.6' RT	1	--
	79BRW+72	37.2' LT	1	1
	81BRW+36	1.5' RT	1	1
	81BRW+37	37.2' LT	1	1
	81BRW+37	17.1' RT	1	--
	85BRW+77	37.3' LT	1	1
	85BRW+78	1.5' RT	1	1
	85BRW+78	17.6' RT	1	--
	87BRW+98	37.0' LT	1	1
	87BRW+99	1.5' RT	1	1
	87BRE+99	17.6' RT	1	--
	90BRW+47	1.5' RT	1	1
	90BRW+60	37.0' LT	1	1
	90BRW+73	1.3' RT	1	1
	90BRW+74	37.3' LT	1	1
	90BRW+74	17.4' RT	1	--
	91BRW+02	37.3' LT	1	1
	92BRW+27	37.3' LT	1	1
	92BRW+28	0.7' RT	1	1
	92BRW+28	17.8' RT	1	--
	94BRW+45	37.2' LT	1	1
	94BRW+45	1.3' RT	1	1

INLET PROTECTION (CONTINUED)

STAGE	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7020 INLET PROTECTION TYPE D EACH
	94BRW+46	17.5' RT	1	--
	96BRW+46	37.7' LT	1	1
	96BRW+46	0.4' RT	1	1
	98BRW+74	37.1' LT	1	1
	98BRW+74	0.9' RT	1	1
	98BRW+75	10.9' RT	1	1
	98BRW+75	24.9' RT	1	1
	98BRW+51	24.8' RT	1	1
	100BRW+81	66.1' LT	1	1
	101BRW+01	0.5' RT	1	1
	101BRW+01	11.0' RT	1	1
	101BRW+31	70.1' LT	1	1
	101BRW+43	24.8' RT	1	1
	103BRW+14	49.0' LT	1	1
	103BRW+14	19.0' LT	1	1
	104BRW+79	3.5' RT	1	1
	104BRW+80	36.6' LT	1	1
	104BRW+80	17.9' RT	1	--
	106BRW+78	37.5' LT	1	1
	106BRW+79	1.5' RT	1	1
	106BRW+79	17.8' RT	1	--
	109BRW+09	37.5' LT	1	1
	109BRW+09	1.5' RT	1	1
	109BRW+09	18.0' RT	1	--
	111BRW+09	37.0' LT	1	1
	111BRW+37	1.0' RT	1	1
	111BRW+37	17.2' RT	1	--
	113BRW+62	37.5' LT	1	1
	113BRW+62	1.5' RT	1	1
	113BRW+63	17.3' RT	1	--
	115BRW+87	37.1' LT	1	1
	115BRW+87	1.5' RT	1	1
	115BRW+88	17.1' RT	1	--
	119BRW+87	37.0' LT	1	1
	119BRW+87	1.8' RT	1	1
	119BRW+87	11.1' RT	1	1
	122BRW+96	10.9' RT	1	1
	124BRW+00	48.9' LT	1	1
	124BRW+00	0.8' RT	1	1
	124BRW+00	10.7' RT	1	1
	124BRW+00	25.3' RT	1	1
	125BRW+77	38.5' LT	1	1
	125BRW+77	4.6' RT	1	1
	127BRW+70	37.2' LT	1	1
	127BRW+71	1.5' RT	1	1

INLET PROTECTION (CONTINUED)

STAGE	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7020 INLET PROTECTION TYPE D EACH
	127BRW+71	17.7' RT	1	--
	129BRW+92	37.2' LT	1	1
	129BRW+92	1.5' RT	1	1
	129BRW+92	17.3' RT	1	--
	131BRW+54	37.5' LT	1	1
	131BRW+74	37.0' LT	1	1
	131BRW+75	1.5' RT	1	1
	131BRW+75	15.9' RT	1	--
	131BRW+95	37.0' LT	1	1
	132BRW+06	1.1' RT	1	1
	134BRW+09	37.5' LT	1	1
	134BRW+10	1.5' RT	1	1
	134BRW+10	16.7' RT	1	--
	136BRW+30	37.1' LT	1	1
	136BRW+30	1.5' RT	1	1
	136BRW+31	17.1' RT	1	--
	140BRW+28	37.1' LT	1	1
	140BRW+28	1.5' RT	1	1
	140BRW+28	12.6' RT	1	1
	141BRW+56	0.4' RT	1	1
	141BRW+57	10.4' RT	1	1
	141BRW+88	25.0' RT	1	1
	143BRW+51	10.3' RT	1	1
	144BRW+54	25.3' RT	1	1
	144BRW+55	48.7' LT	1	1
	144BRW+55	0.00'	1	1
	144BRW+55	10.7' RT	1	1
	147BRW+16	18.4' RT	1	--
	147BRW+17	37.0' LT	1	1
	147BRW+17	1.6' RT	1	1
	148BRW+91	37.5' LT	1	1
	148BRW+92	1.5' RT	1	1
	148BRW+92	17.1' RT	1	--
STAGE 2B SUBTOTAL			113	90
STAGE 3A				
	142BRE+26	67.7' RT	1	1
STAGE 3A SUBTOTAL			1	1
STAGE 3B				
	121BRE+20	38.4' RT	1	1
	121BRE+57	64.8' RT	1	1
STAGE 3B SUBTOTAL			2	2
PROJECT 2704-09-70 TOTALS			204	181

3

TRACKING PADS

PROJECT 2704-09-70	628.7560 TRACKING PADS EACH
UNDISTRIBUTED	10
PROJECT 2704-09-70 TOTAL	10

ROCK BAGS

PROJECT 2704-09-70	628.7570 ROCK BAGS EACH
UNDISTRIBUTED	31
PROJECT 2704-09-70 TOTAL	31

3

LANDSCAPE PLANTING AND SURVEILLANCE AND CARE CYCLES

PROJECT 2704-09-70	632.9101 LANDSCAPE PLANTING AND SURVEILLANCE AND CARE CYCLES EACH
UNDISTRIBUTED	9
PROJECT 2704-09-70 TOTAL	9

PERMANENT SIGNING

SIGN NUMBER	SIGN CODE	SIGN MESSAGE	SIGN SIZE INCH	X	INCH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	STATION	LOCATION	SIGN MOUNTED ON SAME POST AS SIGN #	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	REMARKS
BRAUN ROAD														
P100	R3-20LL	BEGIN LEFT TURN LANE	24	X	36	--	6.00	--	--	73BRW+55	RT		1	
P101	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	75BRE+96	RT		1	
P102	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	75BRE+97	LT		1	
P103	R3-20L	BEGIN LEFT TURN LANE	24	X	36	--	6.00	--	--	76BRW+54	RT		1	
P104	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	80BRW+25	LT		1	
P105	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	80BRW+25	RT		1	
P106	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	90BRE+91	LT		1	
P107	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	90BRE+91	RT		1	
P108	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	95BRE+23	LT		1	
P109	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	95BRW+23	RT		1	
P110	R6-2L	ONE WAY	24	X	30	--	5.00	--	--	100BRW+59	LT		1	
P111	R5-1	DO NOT ENTER	30	X	30	--	6.25	--	--	101BRW+05	RT		1	
P112	R3-20LL	BEGIN LEFT TURN LANE	24	X	36	--	6.00	--	--	102BRW+83	RT		1	
P113	R5-1	DO NOT ENTER	30	X	30	--	6.25	--	--	100BRE+13	LT		1	
P114	W12-1-D	DOUBLE DIAGONAL ARROW	24	X	24	--	--	--	4.00	100BRE+01	RT		1	2' MOUNTING HEIGHT
P115	R1-1	STOP	36	X	36	--	7.46	--	--	99BRE+87	RT		1	
P116	R4-7	KEEP RIGHT	24	X	30	--	5.00	--	--	100BRE+61	RT		1	
P117	R1-1R	ONE WAY	36	X	12	--	3.00	--	--	100BRE+85	RT	P118	--	
P118	R1-1	STOP	36	X	36	--	7.46	--	--	100BRE+85	RT		1	
P119	R6-3	DIVIDED HIGHWAY	30	X	24	--	5.00	--	--	100BRE+85	RT	P118	--	
P120	R1-2	YIELD	36	X	31	--	3.88	--	--	101BRE+17	RT		1	
P121	R4-7	KEEP RIGHT	24	X	30	--	5.00	--	--	101BRE+46	LT		1	
P122	R3-20L	BEGIN LEFT TURN LANE	24	X	36	--	6.00	--	--	104BRW+86	RT		1	
P123	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	105BRE+99	LT		1	
P124	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	105BRE+98	RT		1	
P125	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	116BRW+43	LT		1	
P126	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	116BRW+42	RT		1	
P127	R1-1-F	STOP (FOLDING)	36	X	36	--	--	7.46	--	120BRW+98	RT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P128	R1-1-F	STOP (FOLDING)	36	X	36	--	--	7.46	--	121BRW+34	RT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P129	R4-7	KEEP RIGHT	24	X	30	--	5.00	--	--	120BRW+98	RT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P130	R1-1L	ONE WAY	36	X	12	--	3.00	--	--	121BRW+40	LT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P131	R1-2	YIELD	36	X	31	--	3.88	--	--	121BRW+22	LT		1	

PERMANENT SIGNING (CONTINUED)

SIGN NUMBER	SIGN CODE	SIGN MESSAGE	SIGN SIZE INCH	X	INCH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	STATION	LOCATION	SIGN MOUNTED ON SAME POST AS SIGN #	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	REMARKS
P132	R1-1-F	STOP (FOLDING)	36	X	36	--	--	7.46	--	122BRW+02	LT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P133	R4-7	KEEP RIGHT	24	X	30	--	5.00	--	--	122BRW+02	LT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P134	R1-1-F	STOP (FOLDING)	36	X	36	--	--	7.46	--	121BRW+79	LT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P135	R5-1	DO NOT ENTER	30	X	30	--	6.25	--	--	121BRW+79	LT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P136	R6-1	ONE WAY	36	X	12	--	3.00	--	--	122BRW+32	LT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P137	R1-1-F	STOP (FOLDING)	36	X	36	--	--	7.46	--	122BRW+44	LT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P138	R1-1	STOP	36	X	36	--	7.46	--	--	122BRW+74	LT		1	
P139	W12-1-D	DOUBLE DIAGONAL ARROW	24	X	24	--	--	--	4.00	122BRW+60	LT		1	2' MOUNTING HEIGHT
P140	W23-2	NEW TRAFFIC PATTERN AHEAD	36	X	36	2	--	--	9.00	113BRE+67	LT		1	
P141	W23-2	NEW TRAFFIC PATTERN AHEAD	36	X	36	2	--	--	9.00	113BRE+66	RT		1	
P142	W3-3	TRAFFIC SIGNAL AHEAD	36	X	36	2	--	--	9.00	116BRE+35	LT		1	
P143	W3-3	TRAFFIC SIGNAL AHEAD	36	X	36	2	--	--	9.00	116BRE+35	RT		1	
P144	R3-20L	BEGIN LEFT TURN LANE	24	X	36	--	6.00	--	--	117BRE+54	LT		1	
P145	R3-20LL	BEGIN LEFT TURN LANE	24	X	36	--	6.00	--	--	119BRE+58	LT		1	
P146	R5-1	DO NOT ENTER	30	X	30	--	6.25	--	--	121BRE+35	LT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P147	R5-1	DO NOT ENTER	30	X	30	--	6.25	--	--	122BRE+49	LT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P148	W12-1-D	DOUBLE DIAGONAL ARROW	24	X	24	--	--	--	4.00	121BRE+20	RT		1	2' MOUNTING HEIGHT
P149	R1-1	STOP	36	X	36	--	7.46	--	--	121BRE+08	RT		1	
P150	R1-1-F	STOP (FOLDING)	36	X	36	--	--	7.46	--	121BRE+38	RT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P151	R6-1	ONE WAY	36	X	12	--	3.00	--	--	121BRE+51	RT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P152	R4-7	KEEP RIGHT	24	X	30	--	5.00	--	--	121BRE+80	RT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P153	R1-1-F	STOP (FOLDING)	36	X	36	--	--	7.46	--	121BRE+80	RT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P154	R5-1	DO NOT ENTER	30	X	30	--	6.25	--	--	122BRE+28	RT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P155	R1-1-F	STOP (FOLDING)	36	X	36	--	--	7.46	--	122BRE+49	LT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P156	R1-1-F	STOP (FOLDING)	36	X	36	--	--	7.46	--	122BRE+88	LT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P157	R4-7	KEEP RIGHT	24	X	30	--	5.00	--	--	122BRE+88	LT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P158	R1-2	YIELD	36	X	31	--	3.88	--	--	122BRE+59	RT		1	
P159	R6-1	ONE WAY	36	X	12	--	3.00	--	--	122BRE+42	RT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P160	R1-1-F	STOP (FOLDING)	36	X	36	--	--	7.46	--	122BRE+28	RT		--	MOUNTED ON TRAFFIC SIGNAL POLE
P161	R3-20LL	BEGIN LEFT TURN LANE	24	X	36	--	6.00	--	--	124BRW+24	RT		1	
P162	R3-20L	BEGIN LEFT TURN LANE	24	X	36	--	6.00	--	--	126BRW+15	RT		1	
P163	W3-3	TRAFFIC SIGNAL AHEAD	36	X	36	2	--	--	9.00	127BRW+68	LT		1	
P164	W3-3	TRAFFIC SIGNAL AHEAD	36	X	36	2	--	--	9.00	127BRW+68	RT		1	
P165	W23-2	NEW TRAFFIC PATTERN AHEAD	36	X	36	2	--	--	9.00	129BRW+86	LT		1	
P166	W23-2	NEW TRAFFIC PATTERN AHEAD	36	X	36	2	--	--	9.00	129BRW+86	RT		1	
P167	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	137BRW+11	LT		1	
P168	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	137BRW+11	RT		1	

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PERMANENT SIGNING (CONTINUED)

SIGN NUMBER	SIGN CODE	SIGN MESSAGE	SIGN SIZE INCH		SIGN SIZE INCH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	STATION	LOCATION	SIGN MOUNTED ON SAME POST AS SIGN #	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	REMARKS
P169	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	127BRE+37	LT		1	
P170	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	127BRE+36	RT		1	
P171	R5-1	DO NOT ENTER	30	X	30	--	6.25	--	--	142BRW+03	RT		1	
P172	R6-2L	ONE WAY	24	X	30		5.00	--	--	142BRW+46	LT		1	
P173	R5-1	DO NOT ENTER	30	X	30	--	6.25	--	--	142BRW+92	RT		1	
P174	R3-20LL	BEGIN LEFT TURN LANE	24	X	36	--	6.00	--	--	144BRW+84	RT		1	
P175	W12-1-D	DOUBLE DIAGONAL ARROW	24	X	24	--	--	--	4.00	141BRE+89	RT		1	2' MOUNTING HEIGHT
P176	R1-1	STOP	36	X	36	--	7.46	--	--	141BRE+75	RT		1	
P177	R4-7	KEEP RIGHT	24	X	30	--	5.00	--	--	142BRE+50	RT		1	
P178	R1-1R	ONE WAY	36	X	12	--	3.00	--	--	142BRE+75	RT	P179	--	
P179	R1-1	STOP	36	X	36	--	7.46	--	--	142BRE+75	RT		1	
P180	R6-3	DIVIDED HIGHWAY	30	X	24	--	5.00	--	--	142BRE+75	RT	P179	--	
P181	R4-7	KEEP RIGHT	24	X	30	--	5.00	--	--	143BRE+35	LT		1	
P182	R1-2	YIELD	36	X	31	--	3.88	--	--	143BRE+05	RT		1	
P183	R3-20L	BEGIN LEFT TURN LANE	24	X	36	--	6.00	--	--	146BRW+73	RT		1	
P184	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	147BRE+84	LT		1	
P185	R2-1	SPEED LIMIT 35	24	X	30	--	5.00	--	--	147BRE+84	RT		1	
PROJECT 2704-09-70 TOTALS						16	338.28	74.60	88.00				60	

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DETOUR ITEMS

		643.0900* TRAFFIC CONTROL SIGNS		643.1000* TRAFFIC CONTROL SIGNS FIXED MESSAGE		643.0920* TRAFFIC CONTROL CONVERING SIGNS TYPE II	
	DURATION	EACH^	DAYS	EACH^	SF	CYCLES^	EACH
BRAUN ROAD	322	50	16,100	20	100.00	1	70
UNDISTRIBUTED			--		--	1	10
PROJECT 2704-09-70 TOTAL			16,100		100.00		80

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

^ FOR INFORMATION ONLY

MOVING SIGNS

SIGN NUMBER	STATION	LOCATION	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORT EACH	SIGN MOUNTED ON SAME POST AS SIGN #	REMARKS
M113			1	1		STOP
M114			1	1		TRUCK
M115			1	--	M114	NO TURN ON RED
PROJECT 2704-09-70 TOTALS			3	2		

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SIGN REMOVAL

SIGN NUMBER	STATION	LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORT EACH	SIGN MOUNTED ON SAME POST AS SIGN #	REMARKS
BRAUN ROAD						
R102			1	1		SPEED LIMIT 45
R103			1	1		SPEED LIMIT 45
R104			1	1		SPEED LIMIT 45
R105			1	--	R104	OBJECT MARKER
R106			1	1		OBJECT MARKER
R107			1	1		OBJECT MARKER
R108			1	1		OBJECT MARKER
R109			1	1		STOP
R110			1	1		SPEED LIMIT 45
R111			1	1		SPEED LIMIT 45
R112			1	1		SPEED LIMIT 45
R113			1	1		SPEED LIMIT 45
R114			1	1		STOP AHEAD
PROJECT 2704-09-70 TOTALS			13	12		

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TRAFFIC CONTROL ITEMS

ROADWAY	STAGE DURATION DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH^	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH^	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH^	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH^	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0900* TRAFFIC CONTROL SIGNS EACH^	643.0900* TRAFFIC CONTROL SIGNS DAYS	643.0920* TRAFFIC CONTROL COVERING SIGNS TYPE II CYCLES^	643.0920* TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.1000* TRAFFIC CONTROL SIGNS FIXED MESSAGE EACH	643.1000* TRAFFIC CONTROL SIGNS FIXED MESSAGE SF
STAGE 1A CONSTRUCTION	41														
BRAUN ROAD		--	--	6	246	12	492	--	--	6	246	--	--	4	20
STAGE 1A SUBTOTAL			--		246		492		--		246		--		20
STAGE 1B CONSTRUCTION	41														
BRAUN ROAD		--	--	5	205	10	410	--	--	6	246	--	--	--	--
STAGE 1B SUBTOTAL			--		205		410		--		246		--		--
STAGE 1C CONSTRUCTION	41														
BRAUN ROAD		--	--	4	164	8	328	--	--	6	246	--	--	--	--
STAGE 1C SUBTOTAL			--		164		328		--		246		--		--
STAGE 2 CONSTRUCTION	150														
BRAUN ROAD		--	--	8	1,200	16	2,400	--	--	19	2,850	--	--	--	--
STAGE 2 SUBTOTAL			--		1,200		2,400		--		2,850		--		--
STAGE 3 CONSTRUCTION	25														
BRAUN ROAD		49	1,225	1	25	2	50	20	500	10	250	--	--	--	--
STAGE 3 SUBTOTAL			1,225		25		50		500		250		--		--
UNDISTRIBUTED			--		--		--		--		--	1	35	--	--
PROJECT 12704-09-70 TOTAL			1,225		1,840		3,680		500		3,838		35		20

^ FOR INFORMATION ONLY
* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

TRAFFIC CONTROL

ROADWAY	643.5000 TRAFFIC CONTROL EACH
PROJECT 2704-09-70	1
PROJECT 2704-09-70 TOTALS	1

PAVEMENT MARKINGS

STAGE	ROADWAY	646.1020 MARKING LINE EPOXY 4-INCH (WHITE) LF	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW) LF	646.3020 MARKING LINE EPOXY 8-INCH (WHITE) LF	646.3020 MARKING LINE EPOXY 8-INCH (YELLOW) LF	646.5020 MARKING ARROW EPOXY (WHITE) EACH	646.5120 MARKING WORD EPOXY (WHITE) EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH (WHITE) LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE) LF	646.8120 MARKING CURB EPOXY YELLOW LF	646.8220 MARKING ISLAND NOSE EPOXY YELLOW EACH	649.0120 TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE) LF	649.0120 TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW) LF	649.0220 TEMPORARY MARKING LINE EPOXY 8-INCH (WHITE) LF	649.0220 TEMPORARY MARKING LINE EPOXY 8-INCH (YELLOW) LF	649.0520 TEMPORARY MARKING ARROW EPOXY (WHITE) EACH	649.0820 TEMPORARY MARKING STOP LINE EPOXY 18-INCH (WHITE) LF
STAGE 1C	BRAUN ROAD EB	--	--	--	--	--	--	--	--	--	--	--	17,705	--	11,009	--	--
STAGE 3	BRAUN ROAD EB	3,776	--	1,211	--	8	4	108	726	54	3	--	--	--	--	--	--
	BRAUN ROAD WB	3,867	--	1,816	--	11	4	72	575	10	1	--	--	--	--	--	--
	FC1	--	--	--	--	--	--	12	115	23	1	--	--	--	--	--	--
	FC2	5	--	21	--	--	--	36	163	24	1	--	--	--	--	--	--
	FC3	--	--	--	--	--	--	12	115	23	1	--	--	--	--	--	--
	N4	--	--	--	--	--	--	24	163	15	1	--	--	--	--	--	--
PROJECT 2704-09-70 TOTALS		7,648		3,048		19	8	264	1,857	149	8	17,705		11,009		--	--

SAWING PAVEMENT

STAGE	STATION			OFFSET	690.0150 SAWING ASPHALT LF
STAGE 1A					
	72BRE+36	-	76BRE+00	LT	364
	96BRE+50	-	128BRE+50	LT	3,200
	135BRE+50	-	154BRE+22	LT	1,868
STAGE 1A SUBTOTAL					5,432
STAGE 1B					
	73BRE+00	-	76BRE+00	LT	300
	81BRE+50	-	84BRE+00	LT	250
STAGE 1B SUBTOTAL					550
STAGE 1C					
	65BRE+01	-	67BRE+96	LT	295
	150BRE+88	-	150BRE+88	RT/LT	24
	151BRE+01	-	153BRE+06	LT	205
STAGE 1C SUBTOTAL					524
STAGE 2					
	71BRW+25	-	71BRW+30	RT	20
	149BRW+84	-	149BRW+88	RT	20
	150BRW+99	-	153BRW+00	RT	201
	150BRW+99		151BRW+00	RT	32
STAGE 2 SUBTOTAL					273
PROJECT 2704-09-70 TOTAL					6,779

EXCAVATION BELOW SUBGRADE (EBS)

ROADWAY	645.0220 GEOGRID TYPE SR SY	SPV.0035.002 EBS EXCAVATION CY	SPV.0035.003 EBS BACKFILL CY
UNDISTRIBUTED	29,124	9,708	9,708
PROJECT 2704-09-70 TOTAL	29,124	9,708	9,708

NOTES:
EBS EXCAVATION = (TOPSOIL REMOVAL * 40%).
ALL EBS MATERIAL ASSUMED TO BE WASTED OFFSITE.

EROSION CONTROL SPECIAL

ROADWAY	SPV.0060.001 TEMPORARY STONE DITCH CHECKS EACH	SPV.0060.002 SAND BAGS EACH	SPV.0060.003 TEMPORARY SEDIMENT TRAPS EACH
PROJECT 2704-09-70	60	50	6
PROJECT 2704-09-70 TOTAL	60	50	6

ITS ITEMS

CATEGORY	ROADWAY	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF
4000	UNDISTRIBUTED	1
PROJECT 2704-09-70 TOTAL		1

FILE NAME: \PW\t1\cds\030201_mq.ppt PLOT DATE : 8/29/2018 5:12:09 PM PLOT BY : HNTB Corp PLOT NAME : 030201_mq40 PLOT SCALE : 1:1

3

MOBILIZATION EMERGENCY PAVEMENT REPAIR

ROADWAY	SPV.0060.008 MOBILIZATION EMERGENCY PAVEMENT REPAIR EACH
PROJECT 2704-09-70	16
PROJECT 2704-09-70 TOTAL	16

SECTION CORNER MONUMENTS

ROADWAY	SPV.0060.009 SECTION CORNER MONUMENTS EACH
PROJECT 2704-09-70	3
PROJECT 2704-09-70 TOTAL	3

DRAIN TILE

ROADWAY	612.0700 DRAIN TILE EXPLORATION LF	SPV.0060.012 CONNECT DRAIN TILE EACH
PROJECT 2704-09-70	600	15
PROJECT 2704-09-70 TOTAL	600	15

3

PAVEMENT CLEANUP (PROJECT 2704-09-70)

ROADWAY	SPV.0075.001 PAVEMENT CLEANUP PROJECT 2704-09-70 HOURS
PROJECT 2704-09-70	40
PROJECT 2704-09-70 TOTAL	40

SURVEY PROJECT

ROADWAY	SPV.0105.002 SURVEY PROJECT (2704-09-70) LS
PROJECT 2704-09-70	1
PROJECT 2704-09-70 TOTAL	1

IRRIGATION

STATION	LOCATION	SPV.0105.730 WATER TAP SERVICE AND IRRIGATION SYSTEM LS
PROJECT 2704-09-70	BRAUN ROAD	1
PROJECT 2704-09-70 TOTAL		1

LOCAL NON-PARTICIPATING ITEMS

CATEGORY	ROADWAY	DURATION DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II EACH	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAYS
6000	PROJECT 2704-09-70	1	1	1
PROJECT 2704-09-70 TOTAL				1

FIELD OFFICE

ROADWAY	SPV.0105.003 FIELD OFFICE LEFT IN PLACE SPECIAL LS	SPV.0135.001 MAINTAIN FIELD OFFICE LEFT IN PLACE SPECIAL MONTH
PROJECT 2704-09-70	1	14
PROJECT 2704-09-70 TOTALS	1	14

REMOVAL AND DISPOSAL OF INVASIVE PLANT SPECIES

ROADWAY	SPV.0170.001 REMOVAL AND DISPOSAL OF INVASIVE PLANT SPECIES STA
PROJECT 2704-09-70	4
PROJECT 2704-09-70 TOTAL	4

3

GENERAL NOTES

1) STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS UNLESS OTHERWISE NOTED.
2) RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES OR THE CENTER OF THE MANHOLE COVER FOR MANHOLES UNLESS OTHERWISE NOTED.
3) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING - 0.5 FT(RINGS AND MORTER) , EXCEPT MEDIAN INLETS.
4) FLAT TOP SLAB REQUIRED ON ALL MANHOLES WITH INLET COVERS.
5) SEE SPECIAL PROVISIONS FOR ADJUSTMENT RING REQUIREMENTS.

STORM SEWER PIPES

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF
BRAUN ROAD STAGE 1A											
STUB	80E	733.90	733.59	0.82%	--	--	--	--	26	--	--
80E	80D	733.59	733.47	0.71%	--	--	--	--	17	--	--
80D	80B	733.47	733.35	0.71%	--	--	--	--	17	--	--
80B	STUB	733.35	733.00	0.87%	--	--	--	--	10	--	--
STUB	132F	743.95	743.60	0.92%	--	--	--	--	--	--	--
EW6	86E	727.00	726.85	0.38%	--	--	--	40	--	--	--
86E	88G	726.85	726.11	0.42%	--	--	--	178	--	--	--
88G	EW7	726.11	725.90	0.40%	--	--	--	53	--	--	--
132F	132E	743.60	743.50	0.67%	--	--	--	--	--	--	--
132E	132C	743.50	743.38	0.67%	--	--	--	--	--	--	--
132C	STUB	743.38	743.08	0.77%	--	--	--	--	--	--	--
BRAUN ROAD STAGE 1A SUBTOTALS					--	--	--	271	70	--	--
BRAUN ROAD STAGE 1B											
121	120A	755.65	755.00	0.49%	--	--	133	--	--	--	--
142F	142	744.73	744.56	0.43%	--	40	--	--	--	--	--
143C	142	744.72	744.56	0.42%	--	38	--	--	--	--	--
BRAUN ROAD STAGE 1B SUBTOTALS					--	78	133	--	--	--	--
BRAUN ROAD STAGE 1C											
73A	73	737.59	737.41	0.47%	--	38	--	--	--	--	--
73	75	737.12	736.55	0.41%	--	139	--	--	--	--	--
75A	75	736.96	736.79	0.45%	--	38	--	--	--	--	--
75	77	736.30	735.43	0.39%	--	--	222	--	--	--	--
77A	77	735.82	735.68	0.36%	--	39	--	--	--	--	--
77	79	734.93	734.09	0.38%	--	--	--	220	--	--	--
79	80	734.09	734.01	0.30%	--	--	--	27	--	--	--
80C	80B	735.21	735.10	0.41%	--	27	--	--	--	--	--
STUB	80	733.33	733.00	0.87%	--	--	--	--	28	--	--
80	81	733.00	732.30	0.38%	--	--	--	--	186	--	--
81A	81	734.18	734.05	0.36%	--	36	--	--	--	--	--
81	84	732.30	731.22	0.38%	--	--	--	--	281	--	--
84	EW2	731.22	731.00	0.31%	--	--	--	--	--	--	--
86	84	732.69	731.22	0.91%	--	--	--	--	161	--	--
86A	86	736.65	736.51	0.36%	--	39	--	--	--	--	--
88	86	734.52	733.67	0.39%	--	--	--	220	--	--	--
88A	88	735.42	735.28	0.36%	--	39	--	--	--	--	--
91	ROW LINE	730.63	730.42	0.47%	--	--	--	--	--	--	--
90	91	933.90	933.74	0.42%	--	--	--	--	38	--	--
91C	91B	733.64	733.55	0.35%	--	26	--	--	--	--	--

STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0436 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 36-INCH LF	608.0515 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 15-INCH LF	608.0518 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 18-INCH LF	608.0524 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 24-INCH LF	608.0536 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 36-INCH LF	NOTES
BRAUN ROAD STAGE 1A										
STUB	80E	733.90	733.59	0.82%	--	--	--	--	--	STAGE 1A BREAK 60.5' LT SEE CROSS SECTIONS
80E	80D	733.59	733.47	0.71%	--	--	--	--	--	--
80D	80B	733.47	733.35	0.71%	--	--	--	--	--	--
80B	STUB	733.35	733.00	0.87%	--	--	--	--	--	STAGE 1A BREAK 8.6' RT SEE CROSS SECTIONS
STUB	132F	743.95	743.60	0.92%	38	--	--	--	--	STAGE 1A BREAK 59.7' LT SEE CROSS SECTIONS
EW6	86E	727.00	726.85	0.38%	--	--	--	--	--	--
86E	88G	726.85	726.11	0.42%	--	--	--	--	--	--
88G	EW7	726.11	725.90	0.40%	--	--	--	--	--	
132F	132E	743.60	743.50	0.67%	15	--	--	--	--	--
132E	132C	743.50	743.38	0.67%	18	--	--	--	--	--
132C	STUB	743.38	743.08	0.77%	11	--	--	--	--	STAGE 1A BREAK 9.4' RT SEE CROSS SECTIONS
BRAUN ROAD STAGE 1A SUBTOTALS					82	--	--	--	--	
BRAUN ROAD STAGE 1B										
121	120A	755.65	755.00	0.49%	--	--	--	--	--	--
142F	142	744.73	744.56	0.43%	--	--	--	--	--	--
143C	142	744.72	744.56	0.42%	--	--	--	--	--	--
BRAUN ROAD STAGE 1B SUBTOTALS					--	--	--	--	--	
BRAUN ROAD STAGE 1C										
73A	73	737.59	737.41	0.47%	--	--	--	--	--	--
73	75	737.12	736.55	0.41%	--	--	--	--	--	--
75A	75	736.96	736.79	0.45%	--	--	--	--	--	--
75	77	736.30	735.43	0.39%	--	--	--	--	--	--
77A	77	735.82	735.68	0.36%	--	--	--	--	--	--
77	79	734.93	734.09	0.38%	--	--	--	--	--	--
79	80	734.09	734.01	0.30%	--	--	--	--	--	--
80C	80B	735.21	735.10	0.41%	--	--	--	--	--	--
STUB	80	733.33	733.00	0.87%	--	--	--	--	--	STAGE 1C BREAK 8.6' RT SEE CROSS SECTIONS
80	81	733.00	732.30	0.38%	--	--	--	--	--	--
81A	81	734.18	734.05	0.36%	--	--	--	--	--	--
81	84	732.30	731.22	0.38%	--	--	--	--	--	--
84	EW2	731.22	731.00	0.31%	--	--	--	--	71	--
86	84	732.69	731.22	0.91%	--	--	--	--	--	--
86A	86	736.65	736.51	0.36%	--	--	--	--	--	--
88	86	734.52	733.67	0.39%	--	--	--	--	--	--
88A	88	735.42	735.28	0.36%	--	--	--	--	--	--
91	ROW LINE	730.63	730.42	0.47%	--	--	--	--	45	--
90	91	933.90	933.74	0.42%	--	--	--	--	--	--
91C	91B	733.64	733.55	0.35%	--	--	--	--	--	--

STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF
91B	91	733.55	733.41	0.36%	--	39	--	--	--	--	--
91A	91	731.90	731.66	0.36%	--	--	--	--	67	--	--
92	91A	732.23	731.90	0.37%	--	--	--	--	89	--	--
92A	92	734.12	733.98	0.36%	--	39	--	--	--	--	--
94	92	733.07	732.23	0.39%	--	--	--	--	217	--	--
94A	94	734.96	734.82	0.36%	--	39	--	--	--	--	--
96	94	733.84	733.07	0.39%	--	--	--	--	198	--	--
96A	96	736.82	736.68	0.37%	--	--	38	--	--	--	--
99F	96	735.13	733.84	0.56%	--	--	--	--	230	--	--
99A	99F	738.45	738.26	0.38%	--	--	50	--	--	--	--
100	99F	735.88	735.13	0.60%	--	--	--	--	125	--	--
100B	100	739.70	739.53	0.43%	--	40		--	--	--	--
103	100	737.95	735.88	0.66%	--	--	--	--	315	--	--
103A	103	742.24	742.10	0.36%	--	39	--	--	--	--	--
105	103	741.51	739.77	1.20%	--	--	--	145	--	--	--
105A	105	742.40	742.26	0.36%	--	39	--	--	--	--	--
107	105	744.20	741.51	1.22%	--	--	--	220	--	--	--
107A	107	745.09	744.95	0.36%	--	39	--	--	--	--	--
109	107	746.46	744.20	0.98%	--	--	--	231	--	--	--
109A	109	747.34	747.21	0.34%	--	--	--	--	--	--	38
111	109	748.13	746.46	0.74%	--	--	--	227	--	--	--
111A	111	749.02	748.88	0.36%	--	--	--	--	--	--	39
114	111	749.74	748.63	0.49%	--	--	226	--	--	--	--
114A	114	750.13	749.99	0.36%	--	39	--	--	--	--	--
116	114	750.84	749.74	0.49%	--	--	225	--	--	--	--
116A	116	751.23	751.09	0.36%	--	39	--	--	--	--	--
118	116	752.40	750.84	0.85%	--	--	183	--	--	--	--
120A	118	753.67	752.40	0.59%	--	--	217	--	--	--	--
120B	120A	754.29	754.06	0.46%	--	50	--	--	--	--	--
124B	124A	754.59	754.55	0.40%	--	--	10	--	--	--	--
124A	124	754.55	754.38	0.45%	--	--	38	--	--	--	--
124	126	752.60	749.98	1.48%	--	--	177	--	--	--	--
126A	126	752.14	751.96	0.46%	--	39	--	--	--	--	--
126	128	749.98	747.50	1.28%	--	--	194	--	--	--	--
128A	128	748.16	748.02	0.36%	--	39	--	--	--	--	--
128	130	747.50	745.34	0.98%	--	--	220	--	--	--	--
130A	130	745.74	745.60	0.36%	--	39	--	--	--	--	--
130	132A	744.84	744.16	0.42%	--	--	--	162	--	--	--
132A	132	744.16	744.08	0.38%	--	--	--	21	--	--	--
132	132B	743.08	743.00	0.38%	--	--	--	--	21	--	--
132D	132C	745.03	744.93	0.33%	--	--	--	--	--	--	30
STUB	132	743.38	743.08	0.77%	--	--	--	--	--	--	--
132B	134	743.00	741.96	0.49%	--	--	--	--	214	--	--
134A	134	744.65	744.51	0.36%	--	39	--	--	--	--	--
134	136	741.96	740.89	0.48%	--	--	--	--	221	--	--
136A	136	746.06	745.97	0.23%	--	39	--	--	--	--	--
136	138	740.89	739.89	0.49%	--	--	--	--	205	--	--
138	142	739.89	738.13	0.49%	--	--	--	--	357	--	--
142	144	736.14	735.01	0.42%	--	--	--	--	268	--	--
144A	144	736.86	736.69	0.45%	--	--	38	--	--	--	--
144	147	735.01	734.15	0.40%	--	--	--	--	215	--	--
147A	147	736.03	735.90	0.33%	--	--	--	--	--	--	39

STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0436 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 36-INCH LF	608.0515 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 15-INCH LF	608.0518 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 18-INCH LF	608.0524 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 24-INCH LF	608.0536 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 36-INCH LF	NOTES
91B	91	733.55	733.41	0.36%	--	--	--	--	--	--
91A	91	731.90	731.66	0.36%	--	--	--	--	--	--
92	91A	732.23	731.90	0.37%	--	--	--	--	--	--
92A	92	734.12	733.98	0.36%	--	--	--	--	--	--
94	92	733.07	732.23	0.39%	--	--	--	--	--	--
94A	94	734.96	734.82	0.36%	--	--	--	--	--	--
96	94	733.84	733.07	0.39%	--	--	--	--	--	--
96A	96	736.82	736.68	0.37%	--	--	--	--	--	--
99F	96	735.13	733.84	0.56%	--	--	--	--	--	--
99A	99F	738.45	738.26	0.38%	--	--	--	--	--	--
100	99F	735.88	735.13	0.60%	--	--	--	--	--	--
100B	100	739.70	739.53	0.43%	--	--	--	--	--	--
103	100	737.95	735.88	0.66%	--	--	--	--	--	--
103A	103	742.24	742.10	0.36%	--	--	--	--	--	--
105	103	741.51	739.77	1.20%	--	--	--	--	--	--
105A	105	742.40	742.26	0.36%	--	--	--	--	--	--
107	105	744.20	741.51	1.22%	--	--	--	--	--	--
107A	107	745.09	744.95	0.36%	--	--	--	--	--	--
109	107	746.46	744.20	0.98%	--	--	--	--	--	--
109A	109	747.34	747.21	0.34%	--	--	--	--	--	--
111	109	748.13	746.46	0.74%	--	--	--	--	--	--
111A	111	749.02	748.88	0.36%	--	--	--	--	--	--
114	111	749.74	748.63	0.49%	--	--	--	--	--	--
114A	114	750.13	749.99	0.36%	--	--	--	--	--	--
116	114	750.84	749.74	0.49%	--	--	--	--	--	--
116A	116	751.23	751.09	0.36%	--	--	--	--	--	--
118	116	752.40	750.84	0.85%	--	--	--	--	--	--
120A	118	753.67	752.40	0.59%	--	--	--	--	--	--
120B	120A	754.29	754.06	0.46%	--	--	--	--	--	--
124B	124A	754.59	754.55	0.40%	--	--	--	--	--	--
124A	124	754.55	754.38	0.45%	--	--	--	--	--	--
124	126	752.60	749.98	1.48%	--	--	--	--	--	--
126A	126	752.14	751.96	0.46%	--	--	--	--	--	--
126	128	749.98	747.50	1.28%	--	--	--	--	--	--
128A	128	748.16	748.02	0.36%	--	--	--	--	--	--
128	130	747.50	745.34	0.98%	--	--	--	--	--	--
130A	130	745.74	745.60	0.36%	--	--	--	--	--	--
130	132A	744.84	744.16	0.42%	--	--	--	--	--	--
132A	132	744.16	744.08	0.38%	--	--	--	--	--	--
132	132B	743.08	743.00	0.38%	--	--	--	--	--	--
132D	132C	745.03	744.93	0.33%	--	--	--	--	--	--
STUB	132	743.38	743.08	0.77%	28	--	--	--	--	STAGE 1C BREAK 9.4' RT SEE CROSS SECTIONS
132B	134	743.00	741.96	0.49%	--	--	--	--	--	--
134A	134	744.65	744.51	0.36%	--	--	--	--	--	--
134	136	741.96	740.89	0.48%	--	--	--	--	--	--
136A	136	746.06	745.97	0.23%	--	--	--	--	--	--
136	138	740.89	739.89	0.49%	--	--	--	--	--	--
138	142	739.89	738.13	0.49%	--	--	--	--	--	--
142	144	736.14	735.01	0.42%	--	--	--	--	--	--
144A	144	736.86	736.69	0.45%	--	--	--	--	--	--
144	147	735.01	734.15	0.40%	--	--	--	--	--	--
147A	147	736.03	735.90	0.33%	--	--	--	--	--	--

STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF
147	149	734.15	733.29	0.39%	--	--	--	--	221	--	--
149B	149A	735.23	735.18	0.29%	--	17	--	--	--	--	--
149A	149	735.18	735.04	0.36%	--	39	--	--	--	--	--
149	EW5	727.42	727.09	0.75%	--	--	--	--	--	--	--
BRAUN ROAD STAGE 1C SUBTOTALS					--	1,074	1,838	1,473	3,657	--	146
BRAUN ROAD STAGE 2											
73D	73C	738.03	737.79	0.48%	--	50	--	--	--	--	--
73C	73B	737.79	737.75	0.40%	--	10	--	--	--	--	--
73B	73E	737.75	737.63	0.46%	--	26	--	--	--	--	--
73E	73A	737.63	737.59	0.40%	--	10	--	--	--	--	--
75D	75C	737.40	737.06	0.49%	--	70	--	--	--	--	--
75C	75A	737.06	736.96	0.45%	--	22	--	--	--	--	--
77D	77C	736.56	735.92	1.68%	--	38	--	--	--	--	--
77C	77B	735.92	735.87	0.29%	--	17	--	--	--	--	--
77B	77A	735.87	735.82	0.31%	--	16	--	--	--	--	--
80I	80G	736.21	736.11	0.37%	--	--	--	--	--	--	27
EW1	80G	734.60	733.89	0.99%	--	--	--	--	72	--	--
80G	STUB	733.90	733.59	0.82%	--	--	--	--	12	--	--
80F	80E	735.08	734.98	0.37%	--	27	--	--	--	--	--
81D	81C	734.92	734.28	1.68%	--	38	--	--	--	--	--
81C	81B	734.28	734.23	0.31%	--	16	--	--	--	--	--
81B	81A	734.23	734.18	0.29%	--	17	--	--	--	--	--
86D	86C	736.89	736.75	0.36%	--	39	--	--	--	--	--
86C	86B	736.75	736.70	0.31%	--	16	--	--	--	--	--
86B	86A	736.70	736.65	0.29%	--	17	--	--	--	--	--
88D	88C	735.66	735.52	0.36%	--	39	--	--	--	--	--
88C	88B	735.52	735.47	0.31%	--	16	--	--	--	--	--
88B	88A	735.47	735.42	0.29%	--	17	--	--	--	--	--
91I	91G	733.88	733.79	0.64%	--	--	--	--	--	14	--
91H	91G	733.89	733.79	0.36%	--	--	--	--	--	28	--
91G	91E	733.79	733.65	0.37%	--	38	--	--	--	--	--
91F	91E	733.74	733.65	0.35%	--	26	--	--	--	--	--
91E	91D	733.65	733.60	0.31%	--	16	--	--	--	--	--
91D	91B	733.60	733.55	0.29%	--	17	--	--	--	--	--
92D	92C	734.36	734.22	0.36%	--	--	--	--	--	--	39
92C	92B	734.22	734.17	0.31%	--	--	--	--	--	--	16
92B	92A	734.17	734.12	0.29%	--	--	--	--	--	--	17
94D	94C	735.20	735.06	0.36%	--	39	--	--	--	--	--
94C	94B	735.06	735.01	0.31%	--	16	--	--	--	--	--

3

STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0436 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 36-INCH LF	608.0515 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 15-INCH LF	608.0518 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 18-INCH LF	608.0524 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 24-INCH LF	608.0536 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 36-INCH LF	NOTES
147	149	734.15	733.29	0.39%	--	--	--	--	--	--
149B	149A	735.23	735.18	0.29%	--	--	--	--	--	--
149A	149	735.18	735.04	0.36%	--	--	--	--	--	--
149	EW5	727.42	727.09	0.75%	--	--	--	--	44	--
BRAUN ROAD STAGE 1C SUBTOTALS					28	--	--	--	160	
BRAUN ROAD STAGE 2										
73D	73C	738.03	737.79	0.48%	--	--	--	--	--	--
73C	73B	737.79	737.75	0.40%	--	--	--	--	--	--
73B	73E	737.75	737.63	0.46%	--	--	--	--	--	--
73E	73A	737.63	737.59	0.40%	--	--	--	--	--	--
75D	75C	737.40	737.06	0.49%	--	--	--	--	--	--
75C	75A	737.06	736.96	0.45%	--	--	--	--	--	--
77D	77C	736.56	735.92	1.68%	--	--	--	--	--	--
77C	77B	735.92	735.87	0.29%	--	--	--	--	--	--
77B	77A	735.87	735.82	0.31%	--	--	--	--	--	--
80I	80G	736.21	736.11	0.37%	--	--	--	--	--	--
EW1	80G	734.60	733.89	0.99%	--	--	--	--	--	--
80G	STUB	733.90	733.59	0.82%	--	--	--	--	--	STAGE 2 BREAK 60.5' LT SEE CROSS SECTIONS
80F	80E	735.08	734.98	0.37%	--	--	--	--	--	--
81D	81C	734.92	734.28	1.68%	--	--	--	--	--	--
81C	81B	734.28	734.23	0.31%	--	--	--	--	--	--
81B	81A	734.23	734.18	0.29%	--	--	--	--	--	--
86D	86C	736.89	736.75	0.36%	--	--	--	--	--	--
86C	86B	736.75	736.70	0.31%	--	--	--	--	--	--
86B	86A	736.70	736.65	0.29%	--	--	--	--	--	--
88D	88C	735.66	735.52	0.36%	--	--	--	--	--	--
88C	88B	735.52	735.47	0.31%	--	--	--	--	--	--
88B	88A	735.47	735.42	0.29%	--	--	--	--	--	--
91I	91G	733.88	733.79	0.64%	--	--	--	--	--	--
91H	91G	733.89	733.79	0.36%	--	--	--	--	--	--
91G	91E	733.79	733.65	0.37%	--	--	--	--	--	--
91F	91E	733.74	733.65	0.35%	--	--	--	--	--	--
91E	91D	733.65	733.60	0.31%	--	--	--	--	--	--
91D	91B	733.60	733.55	0.29%	--	--	--	--	--	--
92D	92C	734.36	734.22	0.36%	--	--	--	--	--	--
92C	92B	734.22	734.17	0.31%	--	--	--	--	--	--
92B	92A	734.17	734.12	0.29%	--	--	--	--	--	--
94D	94C	735.20	735.06	0.36%	--	--	--	--	--	--
94C	94B	735.06	735.01	0.31%	--	--	--	--	--	--

3

STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF
94B	94A	735.01	734.96	0.29%	--	17	--	--	--	--	--
96C	96B	737.44	737.20	0.63%	--	38	--	--	--	--	--
96B	96A	737.20	737.07	0.38%	--	34	--	--	--	--	--
99E	99D	738.95	738.81	0.36%	--	39	--	--	--	--	--
99D	99A	738.81	738.68	0.38%	--	34	--	--	--	--	--
101G	101F	740.39	740.21	0.47%	--	38	--	--	--	--	--
101F	101E	740.21	740.18	0.30%	--	10	--	--	--	--	--
101D	101E	740.38	740.18	0.45%	--	44	--	--	--	--	--
101B	101D	740.42	740.38	0.40%	--	10	--	--	--	--	--
101E	101Z	740.18	739.87	0.47%	--	66	--	--	--	--	--
101Z	101B	739.87	739.70	0.44%	--	39	--	--	--	--	--
103C	103B	742.56	742.30	0.38%	--	68	--	--	--	--	--
103B	103A	742.30	742.24	0.50%	--	12	--	--	--	--	--
105D	105C	743.15	742.50	1.62%	--	40	--	--	--	--	--
105C	105B	742.50	742.45	0.33%	--	15	--	--	--	--	--
105B	105A	742.45	742.40	0.31%	--	16	--	--	--	--	--
107D	107C	745.83	745.19	1.64%	--	39	--	--	--	--	--
107C	107B	745.19	745.14	0.31%	--	16	--	--	--	--	--
107B	107A	745.14	745.09	0.29%	--	17	--	--	--	--	--
109D	109C	747.58	747.44	0.37%	--	--	--	--	--	--	38
109C	109B	747.44	747.39	0.31%	--	--	--	--	--	--	16
109B	109A	747.39	747.34	0.29%	--	--	--	--	--	--	17
111D	111C	749.78	749.14	1.64%	--	--	--	--	--	--	39
111C	111B	749.14	749.09	0.31%	--	--	--	--	--	--	16
111B	111A	749.09	749.02	0.41%	--	--	--	--	--	--	17
114D	114C	750.87	750.23	1.68%	--	38	--	--	--	--	--
114C	114B	750.23	750.18	0.31%	--	16	--	--	--	--	--
114B	114A	750.18	750.13	0.29%	--	17	--	--	--	--	--
116D	116C	751.47	751.33	0.36%	--	39	--	--	--	--	--
116C	116B	751.33	751.28	0.31%	--	16	--	--	--	--	--
116B	116A	751.28	751.23	0.29%	--	17	--	--	--	--	--
120E	120D	754.61	754.43	0.47%	--	38	--	--	--	--	--
120D	120C	754.43	754.39	0.40%	--	10	--	--	--	--	--
102C	120F	754.39	754.33	0.43%	--	14	--	--	--	--	--
120F	120B	754.33	754.29	0.40%	--	10	--	--	--	--	--
122K	123	755.62	755.35	0.46%	--	--	59	--	--	--	--
123	124C	755.35	754.85	0.48%	--	--	105	--	--	--	--
124E	124D	754.91	754.67	0.48%	50	--	--	--	--	--	--
124D	124C	754.67	754.64	0.30%	10	--	--	--	--	--	--
124C	124B	754.64	754.59	0.36%	--	--	14	--	--	--	--
126C	126B	752.48	752.28	0.43%	--	47	--	--	--	--	--

STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0436 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 36-INCH LF	608.0515 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 15-INCH LF	608.0518 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 18-INCH LF	608.0524 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 24-INCH LF	608.0536 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 36-INCH LF	NOTES
94B	94A	735.01	734.96	0.29%	--	--	--	--	--	--
96C	96B	737.44	737.20	0.63%	--	--	--	--	--	--
96B	96A	737.20	737.07	0.38%	--	--	--	--	--	--
99E	99D	738.95	738.81	0.36%	--	--	--	--	--	--
99D	99A	738.81	738.68	0.38%	--	--	--	--	--	--
101G	101F	740.39	740.21	0.47%	--	--	--	--	--	--
101F	101E	740.21	740.18	0.30%	--	--	--	--	--	--
101D	101E	740.38	740.18	0.45%	--	--	--	--	--	--
101B	101D	740.42	740.38	0.40%	--	--	--	--	--	--
101E	101Z	740.18	739.87	0.47%	--	--	--	--	--	--
101Z	101B	739.87	739.70	0.44%	--	--	--	--	--	--
103C	103B	742.56	742.30	0.38%	--	--	--	--	--	--
103B	103A	742.30	742.24	0.50%	--	--	--	--	--	--
105D	105C	743.15	742.50	1.62%	--	--	--	--	--	--
105C	105B	742.50	742.45	0.33%	--	--	--	--	--	--
105B	105A	742.45	742.40	0.31%	--	--	--	--	--	--
107D	107C	745.83	745.19	1.64%	--	--	--	--	--	--
107C	107B	745.19	745.14	0.31%	--	--	--	--	--	--
107B	107A	745.14	745.09	0.29%	--	--	--	--	--	--
109D	109C	747.58	747.44	0.37%	--	--	--	--	--	--
109C	109B	747.44	747.39	0.31%	--	--	--	--	--	--
109B	109A	747.39	747.34	0.29%	--	--	--	--	--	--
111D	111C	749.78	749.14	1.64%	--	--	--	--	--	--
111C	111B	749.14	749.09	0.31%	--	--	--	--	--	--
111B	111A	749.09	749.02	0.41%	--	--	--	--	--	--
114D	114C	750.87	750.23	1.68%	--	--	--	--	--	--
114C	114B	750.23	750.18	0.31%	--	--	--	--	--	--
114B	114A	750.18	750.13	0.29%	--	--	--	--	--	--
116D	116C	751.47	751.33	0.36%	--	--	--	--	--	--
116C	116B	751.33	751.28	0.31%	--	--	--	--	--	--
116B	116A	751.28	751.23	0.29%	--	--	--	--	--	--
120E	120D	754.61	754.43	0.47%	--	--	--	--	--	--
120D	120C	754.43	754.39	0.40%	--	--	--	--	--	--
102C	120F	754.39	754.33	0.43%	--	--	--	--	--	--
120F	120B	754.33	754.29	0.40%	--	--	--	--	--	--
122K	123	755.62	755.35	0.46%	--	--	--	--	--	--
123	124C	755.35	754.85	0.48%	--	--	--	--	--	--
124E	124D	754.91	754.67	0.48%	--	--	--	--	--	--
124D	124C	754.67	754.64	0.30%	--	--	--	--	--	--
124C	124B	754.64	754.59	0.36%	--	--	--	--	--	--
126C	126B	752.48	752.28	0.43%	--	--	--	--	--	--

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STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF
128D	128C	748.90	748.26	1.64%	--	39	--	--	--	--	--
128C	128B	748.26	748.21	0.31%	--	16	--	--	--	--	--
128B	128A	748.21	748.16	0.29%	--	17	--	--	--	--	--
130D	130C	745.99	745.85	0.37%	--	38	--	--	--	--	--
130C	130B	745.85	745.80	0.31%	--	16	--	--	--	--	--
130B	130A	745.80	745.74	0.35%	--	17	--	--	--	--	--
132J	132H	745.17	745.10	0.35%	--	--	--	--	--	--	20
132I	132H	744.17	743.95	0.81%	--	--	--	--	--	--	27
EW4	132I	744.44	744.17	0.73%	--	--	--	--	--	--	--
132H	STUB	743.95	743.60	0.92%	--	--	--	--	--	--	--
132G	132F	745.12	745.01	0.35%	--	--	--	--	--	--	31
134D	134C	744.90	744.76	0.37%	--	38	--	--	--	--	--
134C	134B	744.76	744.71	0.31%	--	16	--	--	--	--	--
134B	134A	744.71	744.65	0.35%	--	17	--	--	--	--	--
136D	136C	746.30	746.16	0.37%	--	38	--	--	--	--	--
136C	136B	746.16	746.11	0.31%	--	16	--	--	--	--	--
136B	136A	746.11	746.06	0.29%	--	17	--	--	--	--	--
142D	142C	745.08	744.91	0.45%	--	38	--	--	--	--	--
142C	142F	744.91	744.73	0.46%	--	39	--	--	--	--	--
143N	143T	739.10	738.92	0.47%	--	38	--	--	--	--	--
143T	143L	738.92	738.89	0.33%	--	9	--	--	--	--	--
143L	144C	738.89	737.98	0.67%	--	135	--	--	--	--	--
144E	144D	737.41	737.23	0.47%	--	38	--	--	--	--	--
144D	144C	737.23	737.20	0.30%	--	10	--	--	--	--	--
144C	144B	736.95	736.90	0.36%	--	--	14	--	--	--	--
144B	144A	736.90	736.86	0.40%	--	--	10	--	--	--	--
147D	147C	736.27	736.13	0.37%	--	--	--	--	--	--	38
147C	147B	736.13	736.08	0.29%	--	--	--	--	--	--	17
147B	147A	736.08	736.03	0.31%	--	--	--	--	--	--	16
149D	149C	735.42	735.28	0.37%	--	38	--	--	--	--	--
149C	149B	735.28	735.23	0.31%	--	16	--	--	--	--	--
EW8	149	727.95	727.42	0.50%	--	--	--	--	109	--	--
BRAUN ROAD STAGE 2 SUBTOTALS					60	2,153	202	--	193	42	391
BRAUN ROAD TOTALS					60	3,305	2,173	1,744	3,920	42	537

STORM SEWER PIPES (CONTINUED)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0436 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 36-INCH LF	608.0515 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 15-INCH LF	608.0518 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 18-INCH LF	608.0524 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 24-INCH LF	608.0536 STORM SEWER PIPE REINFORCED CONCRETE CLASS V 36-INCH LF	NOTES
128D	128C	748.90	748.26	1.64%	--	--	--	--	--	--
128C	128B	748.26	748.21	0.31%	--	--	--	--	--	--
128B	128A	748.21	748.16	0.29%	--	--	--	--	--	--
130D	130C	745.99	745.85	0.37%	--	--	--	--	--	--
130C	130B	745.85	745.80	0.31%	--	--	--	--	--	--
130B	130A	745.80	745.74	0.35%	--	--	--	--	--	--
132J	132H	745.17	745.10	0.35%	--	--	--	--	--	--
132I	132H	744.17	743.95	0.81%	--	--	--	--	--	--
EW4	132I	744.44	744.17	0.73%	37	--	--	--	--	--
132H	STUB	743.95	743.60	0.92%	13	--	--	--	--	STAGE 2 BREAK 59.7' LT SEE CROSS SECTIONS
132G	132F	745.12	745.01	0.35%	--	--	--	--	--	--
134D	134C	744.90	744.76	0.37%	--	--	--	--	--	--
134C	134B	744.76	744.71	0.31%	--	--	--	--	--	--
134B	134A	744.71	744.65	0.35%	--	--	--	--	--	--
136D	136C	746.30	746.16	0.37%	--	--	--	--	--	--
136C	136B	746.16	746.11	0.31%	--	--	--	--	--	--
136B	136A	746.11	746.06	0.29%	--	--	--	--	--	--
142D	142C	745.08	744.91	0.45%	--	--	--	--	--	--
142C	142F	744.91	744.73	0.46%	--	--	--	--	--	--
143N	143T	739.10	738.92	0.47%	--	--	--	--	--	--
143T	143L	738.92	738.89	0.33%	--	--	--	--	--	--
143L	144C	738.89	737.98	0.67%	--	--	--	--	--	--
144E	144D	737.41	737.23	0.47%	--	--	--	--	--	--
144D	144C	737.23	737.20	0.30%	--	--	--	--	--	--
144C	144B	736.95	736.90	0.36%	--	--	--	--	--	--
144B	144A	736.90	736.86	0.40%	--	--	--	--	--	--
147D	147C	736.27	736.13	0.37%	--	--	--	--	--	--
147C	147B	736.13	736.08	0.29%	--	--	--	--	--	--
147B	147A	736.08	736.03	0.31%	--	--	--	--	--	--
149D	149C	735.42	735.28	0.37%	--	--	--	--	--	--
149C	149B	735.28	735.23	0.31%	--	--	--	--	--	--
EW8	149	727.95	727.42	0.50%	--	--	--	--	--	
BRAUN ROAD STAGE 2 SUBTOTALS					50	--	--	--	--	
BRAUN ROAD TOTALS					160	--	--	--	160	

3

3

DELETED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	MISCELLANEOUS QUANTITIES – BRAUN ROAD	SHEET: 363 E

3

3

DELETED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	MISCELLANEOUS QUANTITIES – BRAUN ROAD	SHEET: 364 E

3

3

DELETED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	MISCELLANEOUS QUANTITIES – BRAUN ROAD	SHEET: 365 E

3

3

DELETED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	MISCELLANEOUS QUANTITIES – BRAUN ROAD	SHEET: 366	E

STORM SEWER STRUCTURES

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1015* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH	611.0535 MANHOLE COVERS TYPE JS EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	SPV.0060.010 INLET COVERS BEEHIVE EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH
BRAUN ROAD STAGE 1A																	
80B	79BRE+51.80	1.50 LT	739.93	--	733.33	--	--	--	--	--	1	--	--	--	--	--	--
80D	79BRE+51.95	18.00 LT	738.82	--	733.47	--	--	--	--	--	--	--	--	--	1	--	1
80E	79BRW+51.41	1.50 RT	739.88	--	733.59	--	--	--	--	--	1	--	--	--	--	--	--
EW6	85BRE+50.92	151.76 RT	0.00	--	727.00	--	--	1	--	--	--	--	--	--	--	--	--
EW7	87BRE+53.90	137.61' RT	0.00	--	725.90	--	--	1	--	--	--	--	--	--	--	--	--
88G	87BRE+47.17	83.21' RT	733.00		726.11	--	--	--	--	1	--	--	--	--	--	1	--
132C	131BRE+75.05	1.50 LT	749.11	--	743.38	--	--	--	--	--	--	--	1	--	--	--	1
132E	131BRE+74.82	18.00 LT	747.83	--	743.50	--	--	--	--	--	--	--	--	--	1	--	1
132F	131BRW+74.62	1.50 RT	749.11	--	743.60	--	--	--	--	--	--	--	1	--	--	--	1
	UNDISTRIBUTED		0.00	--		2	--	--	--	--	--	--	--	--	--	--	--
BRAUN ROAD STAGE 1A SUBTOTALS						2	--	2	--	1	2	--	2	--	2	1	4
BRAUN ROAD STAGE 1B																	
121	121BRE+20.50	38.00 RT	761.39	--	755.65	--	--	--	--	--	1	--	--	--	--	--	--
142	141BRE+93.85	38.50 RT	749.58	--	736.17	--	--	--	--	--	1	--	--	--	--	--	--
142F	141BRE+87.83	1.5' LT	149.21	--	744.73	--	--	--	--	--	1	--	--	--	--	1	--
143C	141BRE+79.67	73.8' RT	749.75	--	744.72	--	--	--	--	--	1	--	--	--	--	1	--
	UNDISTRIBUTED		--	--		3	--	--	--	--	--	--	--	--	--	--	--
BRAUN ROAD STAGE 1B SUBTOTALS						3	--	--	--	--	4	--	--	--	--	2	--
TO BE DETERMINED BY DEVELOPER																	
BRAUN ROAD STAGE 1C																	
73	73BRE+44.19	37.50 RT	743.10	--	737.12	--	--	--	--	--	1	--	--	--	--	1	--
73A	73BRE+44.14	1.0' LT	742.88	--	737.59	--	--	--	--	--	1	--	--	--	--	--	--
75	74BRE+81.62	37.50 RT	742.34	--	736.30	--	--	--	--	--	1	--	--	--	--	--	1
75A	74BRE+82.83	1.0' LT	742.12	--	736.96	--	--	--	--	--	1	--	--	--	--	--	--
77	77BRE+03.72	37.50 RT	741.12	--	734.93	--	--	--	--	--	1	--	--	--	--	--	1
77A	77BRE+03.26	1.50 LT	740.88	--	735.82	--	--	--	--	--	1	--	--	--	--	1	--
79	79BRE+24.87	37.50 RT	740.20	--	734.09	--	--	--	--	--	--	--	1	--	--	--	1
80	79BRE+51.95	37.50 RT	740.20	--	733.00	--	--	--	--	--	1	--	--	--	--	--	--
80C	79BRE+25.34	1.50 LT	739.90	--	735.21	--	--	--	--	--	--	--	1	--	--	--	--
81	81BRE+37.76	37.50 RT	741.84	--	732.30	--	--	--	--	--	1	--	--	--	--	--	--
81A	81BRE+36.94	1.50 LT	741.60	--	734.18	--	--	--	--	--	1	--	--	--	--	1	--
84	84BRE+18.63	37.50 RT	743.40	--	731.22	--	--	--	--	--	1	--	--	--	--	--	--
EW2	84BRE+20.00	140.88 RT	--	--	731.00	--	--	--	1	--	--	--	--	--	--	--	--
86	85BRE+79.46	37.50 RT	742.28	--	732.69	--	--	--	--	--	1	--	--	--	--	--	--
86A	85BRE+79.07	1.50 LT	742.04	--	736.65	--	--	--	--	--	1	--	--	--	--	1	--
88	87BRE+99.74	37.50 RT	740.25	--	734.52	--	--	--	--	--	1	--	--	--	--	--	1
88A	87BRE+99.46	1.50 LT	740.00	--	735.42	--	--	--	--	--	1	--	--	--	--	1	--
90	90BRE+34.63	37.00 RT	738.62	--	733.90	--	--	--	--	--	1	--	--	--	--	--	--
91	90BRE+72.97	37.50 RT	738.56	--	730.63	--	--	--	--	--	--	--	1	--	--	--	--
91A	91BRE+40.01	37.50 RT	738.56	--	731.90	--	--	--	--	--	1	--	--	--	--	--	1

STORM SEWER STRUCTURES (CONT)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.8120.S COVER PLATE TEMPORARY EACH	611.9800.S PIPE GRATES EACH	611.3230 INLETS 2x3-FT DIAMETER EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	633.5200 MARKERS CULVERT END EACH	NOTES
BRAUN ROAD STAGE 1A													
80B	79BRE+51.80	1.50 LT	739.93	--	733.33	1	--	--	--	--	--	--	--
80D	79BRE+51.95	18.00 LT	738.82	--	733.47	--	--	1	--	--	--	--	--
80E	79BRW+51.41	1.50 RT	739.88	--	733.59	1	--	1	--	--	--	--	--
EW6	85BRE+50.92	151.76 RT	0.00	--	727.00	--	--	1	1	--	--	2	--
EW7	87BRE+53.90	137.61' RT	0.00	--	725.90	--	--	1	1	--	--	2	--
88G	87BRE+47.17	83.21' RT	733.00		726.11	--	--		--	--	--		
132C	131BRE+75.05	1.50 LT	749.11	--	743.38	--	--	--	--	--	--	--	--
132E	131BRE+74.82	18.00 LT	747.83	--	743.50	--	--	1	--	--	--	--	--
132F	131BRW+74.62	1.50 RT	749.11	--	743.60	--	--	1	--	--	--	--	--
	UNDISTRIBUTED		0.00	--		--	--	5	--	--	--	--	--
BRAUN ROAD STAGE 1A SUBTOTALS						2	--	11	2	--	--	4	--
BRAUN ROAD STAGE 1B													
121	121BRE+20.50	38.00 RT	761.39	--	755.65	--	--	--	--	1	--	--	--
142	141BRE+93.85	38.50 RT	749.58	--	736.17	--	1	--	--	--	--	--	--
142F	141BRE+87.83	1.5' LT	149.21	--	744.73	--	--	--	--	--	--	--	--
143C	141BRE+79.67	73.8' RT	749.75	--	744.72	--	--	--	--	--	--	--	--
	UNDISTRIBUTED		--	--		--	--	10	--	--	--	--	--
BRAUN ROAD STAGE 1B SUBTOTALS *TO BE DETERMINED BY DEVELOPER*						--	1	10	--	1	--	--	--
BRAUN ROAD STAGE 1C													
73	73BRE+44.19	37.50 RT	743.10	--	737.12	--	--	--	--	--	--	--	--
73A	73BRE+44.14	1.0' LT	742.88	--	737.59	--	--	--	--	1	--	--	--
75	74BRE+81.62	37.50 RT	742.34	--	736.30	--	--	--	--	--	--	--	--
75A	74BRE+82.83	1.0' LT	742.12	--	736.96	--	--	--	--	1	--	--	--
77	77BRE+03.72	37.50 RT	741.12	--	734.93	--	--	--	--	--	--	--	--
77A	77BRE+03.26	1.50 LT	740.88	--	735.82	--	--	--	--	--	--	--	--
79	79BRE+24.87	37.50 RT	740.20	--	734.09	--	--	--	--	--	--	--	--
80	79BRE+51.95	37.50 RT	740.20	--	733.00	--	1	--	--	--	--	--	--
80C	79BRE+25.34	1.50 LT	739.90	--	735.21	--	--	--	--	1	--	--	--
81	81BRE+37.76	37.50 RT	741.84	--	732.30	1	--	--	--	--	--	--	--
81A	81BRE+36.94	1.50 LT	741.60	--	734.18	--	--	--	--	--	--	--	--
84	84BRE+18.63	37.50 RT	743.40	--	731.22	--	1	--	--	--	--	--	--
EW2	84BRE+20.00	140.88 RT	--	--	731.00	--	--	--	1	--	--	2	--
86	85BRE+79.46	37.50 RT	742.28	--	732.69	1	--	--	--	--	--	--	--
86A	85BRE+79.07	1.50 LT	742.04	--	736.65	--	--	--	--	--	--	--	--
88	87BRE+99.74	37.50 RT	740.25	--	734.52	--	--	--	--	--	--	--	--
88A	87BRE+99.46	1.50 LT	740.00	--	735.42	--	--	--	--	--	--	--	--
90	90BRE+34.63	37.00 RT	738.62	--	733.90	--	--	--	--	1	--	--	--
91	90BRE+72.97	37.50 RT	738.56	--	730.63	--	1	--	--	--	--	--	--
91A	91BRE+40.01	37.50 RT	738.56	--	731.90	--	--	--	--	--	--	--	--

STORM SEWER STRUCTURES (CONTINUED)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH* EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH* EACH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH* EACH	611.0535 MANHOLE COVERS TYPE JS EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	SPV.0060.010 INLET COVERS BEEHIVE EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH
91B	90BRE+73.59	1.50 LT	738.30	--	733.55	--	--	--	--	--	--	--	1	--	--	1	--
91C	90BRE+47.46	1.50 LT	738.34	--	733.64	--	--	--	--	--	1	--	--	--	--	1	--
92	92BRE+28.70	37.50 RT	738.89	--	732.23	--	--	--	--	--	1	--	--	--	--	--	--
92A	92BRE+28.46	1.50 LT	738.62	--	734.12	--	--	--	--	--	1	--	--	--	--	1	--
94	94BRE+45.53	37.50 RT	740.47	--	733.07	--	--	--	--	--	1	--	--	--	--	--	--
94A	94BRE+45.73	1.50 LT	740.23	--	734.96	--	--	--	--	--	1	--	--	--	--	1	--
96	96BRE+46.14	37.50 RT	742.04	--	733.84	--	--	--	--	--	1	--	--	--	--	--	--
96A	96BRE+45.55	1.0' LT	741.80	--	736.82	--	--	--	--	--	1	--	--	--	--	--	--
99A	98BRE+75.65	1.00 LT	743.61	--	738.45	--	--	--	--	--	--	1	--	--	--	--	--
99F	98BRE+76.43	49.50 RT	743.62	--	735.13	--	--	--	--	--	1	--	--	--	--	--	--
100	100BRE+00.11	39.00 RT	744.82	--	735.88	--	--	--	--	--	1	--	--	--	--	--	--
73E	73BRE+44.59	11.0' LT	742.15	--	737.63	--	--	--	--	--	1	--	--	--	--	--	--
101B	101BRE+43.14	1.00 LT	745.74	--	740.42	--	--	--	--	--	1	--	--	--	--	--	--
103	103BRE+15.02	37.50 RT	747.29	--	739.76	--	--	--	--	--	1	--	--	--	--	--	--
103A	103BRE+15.00	1.00 RT	747.07	--	742.24	--	--	--	--	--	1	--	--	--	--	--	--
105	104BRE+80.66	37.50 RT	748.60	--	741.51	--	--	--	--	--	1	--	--	--	--	--	1
105A	104BRE+80.30	1.50 LT	748.35	--	742.40	--	--	--	--	--	1	--	--	--	--	1	--
107	106BRE+79.57	37.50 RT	750.17	--	744.20	--	--	--	--	--	1	--	--	--	--	--	1
107A	106BRE+79.45	1.50 LT	749.92	--	745.09	--	--	--	--	--	1	--	--	--	--	1	--
109	109BRE+10.41	37.50 RT	752.00	--	746.46	--	--	--	--	--	1	--	--	--	--	--	1
109A	109BRE+10.28	1.50 LT	751.75	--	747.34	--	--	--	--	--	1	--	--	--	--	1	--
111	111BRE+37.66	37.50 RT	753.78	--	748.13	--	--	--	--	--	1	--	--	--	--	--	1
111A	111BRE+37.26	1.50 LT	753.54	--	749.02	--	--	--	--	--	1	--	--	--	--	1	--
114	113BRE+63.39	37.50 RT	755.54	--	749.74	--	--	--	--	--	1	--	--	--	--	--	1
114A	113BRE+63.05	1.50 LT	755.30	--	750.13	--	--	--	--	--	1	--	--	--	--	1	--
116	115BRE+88.13	37.50 RT	757.31	--	750.84	--	--	--	--	--	1	--	--	--	--	--	1
116A	115BRE+88.17	1.50 LT	757.08	--	751.23	--	--	--	--	--	1	--	--	--	--	1	--
118	117BRE+75.00	37.50 RT	758.75	--	752.40	--	--	--	--	--	1	--	--	--	--	--	1
120A	119BRE+87.84	49.50 RT	760.22	--	753.67	--	--	--	--	--	1	--	--	--	--	--	1
120B	119BRE+87.61	1.00 LT	760.22	--	754.29	--	--	--	--	--	--	1	--	--	--	--	--
124	123BRE+98.14	37.50 RT	760.30	--	752.60	--	--	--	--	--	1	--	--	--	--	--	1
124A	124BRE+00.95	1.00 LT	760.05	--	754.55	--	--	--	--	--	1	--	--	--	--	--	--
124B	124BRE+00.88	11.00 LT	759.35	--	754.59	--	--	--	--	--	1	--	--	--	--	--	--
126	125BRE+78.47	37.50 RT	757.46	--	749.98	--	--	--	--	--	1	--	--	--	--	--	1
126A	125BRE+77.76	1.00 LT	757.25	--	752.14	--	--	--	--	--	1	--	--	--	--	--	--
128	127BRE+72.67	37.50 RT	754.15	--	747.50	--	--	--	--	--	1	--	--	--	--	--	1
128A	127BRE+71.90	1.50 LT	753.91	--	748.16	--	--	--	--	--	1	--	--	--	--	1	--
130	129BRE+93.19	37.50 RT	750.52	--	744.84	--	--	--	--	--	1	--	--	--	--	--	1
130A	129BRE+92.44	1.50 LT	750.29	--	745.74	--	--	--	--	--	1	--	--	--	--	1	--
132	131BRE+75.35	37.50 RT	749.35	--	743.08	--	--	--	--	--	--	--	1	--	--	--	--
132A	131BRE+54.75	37.50 RT	749.37	--	744.16	--	--	--	--	--	1	--	--	--	--	1	--

STORM SEWER STRUCTURES (CONT)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.8120.S COVER PLATE TEMPORARY EACH	611.9800.S PIPE GRATES EACH	611.3230 INLETS 2x3-FT DIAMETER EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	633.5200 MARKERS CULVERT END EACH	NOTES
91B	90BRE+73.59	1.50 LT	738.30	--	733.55	--	--	--	--	--	--	--	--
91C	90BRE+47.46	1.50 LT	738.34	--	733.64	--	--	--	--	--	--	--	--
92	92BRE+28.70	37.50 RT	738.89	--	732.23	1	--	--	--	--	--	--	--
92A	92BRE+28.46	1.50 LT	738.62	--	734.12	--	--	--	--	--	--	--	--
94	94BRE+45.53	37.50 RT	740.47	--	733.07	1	--	--	--	--	--	--	--
94A	94BRE+45.73	1.50 LT	740.23	--	734.96	--	--	--	--	--	--	--	--
96	96BRE+46.14	37.50 RT	742.04	--	733.84	1	--	--	--	--	--	--	--
96A	96BRE+45.55	1.0' LT	741.80	--	736.82	--	--	--	--	1	--	--	--
99A	98BRE+75.65	1.00 LT	743.61	--	738.45	--	--	--	--	1	--	--	--
99F	98BRE+76.43	49.50 RT	743.62	--	735.13	1	--	--	--	--	--	--	--
100	100BRE+00.11	39.00 RT	744.82	--	735.88	1	--	--	--	--	--	--	--
73E	73BRE+44.59	11.0' LT	742.15	--	737.63	--	--	--	--	1	--	--	--
101B	101BRE+43.14	1.00 LT	745.74	--	740.42	--	--	--	--	1	--	--	--
103	103BRE+15.02	37.50 RT	747.29	--	739.76	1	--	--	--	--	--	--	--
103A	103BRE+15.00	1.00 RT	747.07	--	742.24	--	--	--	--	1	--	--	--
105	104BRE+80.66	37.50 RT	748.60	--	741.51	--	--	--	--	--	--	--	--
105A	104BRE+80.30	1.50 LT	748.35	--	742.40	--	--	--	--	--	--	--	--
107	106BRE+79.57	37.50 RT	750.17	--	744.20	--	--	--	--	--	--	--	--
107A	106BRE+79.45	1.50 LT	749.92	--	745.09	--	--	--	--	--	--	--	--
109	109BRE+10.41	37.50 RT	752.00	--	746.46	--	--	--	--	--	--	--	--
109A	109BRE+10.28	1.50 LT	751.75	--	747.34	--	--	--	--	--	--	--	--
111	111BRE+37.66	37.50 RT	753.78	--	748.13	--	--	--	--	--	--	--	--
111A	111BRE+37.26	1.50 LT	753.54	--	749.02	--	--	--	--	--	--	--	--
114	113BRE+63.39	37.50 RT	755.54	--	749.74	--	--	--	--	--	--	--	--
114A	113BRE+63.05	1.50 LT	755.30	--	750.13	--	--	--	--	--	--	--	--
116	115BRE+88.13	37.50 RT	757.31	--	750.84	--	--	--	--	--	--	--	--
116A	115BRE+88.17	1.50 LT	757.08	--	751.23	--	--	--	--	--	--	--	--
118	117BRE+75.00	37.50 RT	758.75	--	752.40	--	--	--	--	--	--	--	--
120A	119BRE+87.84	49.50 RT	760.22	--	753.67	--	--	--	--	--	--	--	--
120B	119BRE+87.61	1.00 LT	760.22	--	754.29	--	--	--	--	1	--	--	--
124	123BRE+98.14	37.50 RT	760.30	--	752.60	--	--	--	--	--	--	--	--
124A	124BRE+00.95	1.00 LT	760.05	--	754.55	--	--	--	--	1	--	--	--
124B	124BRE+00.88	11.00 LT	759.35	--	754.59	--	--	--	--	1	--	--	--
126	125BRE+78.47	37.50 RT	757.46	--	749.98	--	--	--	--	--	--	--	--
126A	125BRE+77.76	1.00 LT	757.25	--	752.14	--	--	--	--	1	--	--	--
128	127BRE+72.67	37.50 RT	754.15	--	747.50	--	--	--	--	--	--	--	--
128A	127BRE+71.90	1.50 LT	753.91	--	748.16	--	--	--	--	--	--	--	--
130	129BRE+93.19	37.50 RT	750.52	--	744.84	--	--	--	--	--	--	--	--
130A	129BRE+92.44	1.50 LT	750.29	--	745.74	--	--	--	--	--	--	--	--
132	131BRE+75.35	37.50 RT	749.35	--	743.08	--	1	--	--	--	--	--	--
132A	131BRE+54.75	37.50 RT	749.37	--	744.16	--	--	--	--	--	--	--	--

STORM SEWER STRUCTURES (CONTINUED)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH* EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH* EACH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH* EACH	611.0535 MANHOLE COVERS TYPE JS EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	SPV.0060.010 INLET COVERS BEEHIVE EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH
132B	131BRE+96.53	37.50 RT	749.37	--	743.00	--	--	--	--	--	1	--	--	--	--	--	1
132D	132BRE+05.04	1.50 LT	749.14	--	745.03	--	--	--	--	--	1	--	--	--	--	1	--
134	134BRE+10.50	37.50 RT	750.58	--	741.96	--	--	--	--	--	1	--	--	--	--	--	--
134A	134BRE+10.07	1.50 LT	750.31	--	744.65	--	--	--	--	--	1	--	--	--	--	1	--
136	136BRE+31.40	37.50 RT	752.01	--	740.89	--	--	--	--	--	1	--	--	--	--	--	--
136A	136BRE+30.97	1.50 LT	751.76	--	746.06	--	--	--	--	--	1	--	--	--	--	1	--
138	138BRE+36.60	37.50 RT	753.21	--	739.89	--	--	--	--	--	1	--	--	--	--	--	1
120F	119BRE87.61	11.0' LT	759.97	--	754.33	--	--	--	--	--	1	--	--	--	--	--	--
144	144BRE+56.10	37.50 RT	743.25	--	735.01	--	--	--	--	--	1	--	--	--	--	--	--
144A	144BRE+55.40	1.00 LT	743.01	--	736.86	--	--	--	--	--	1	--	--	--	--	--	--
147	147BRE+17.39	37.00 RT	740.81	--	734.15	--	--	--	--	--	1	--	--	--	--	--	--
147A	147BRE+16.68	1.50 LT	740.56	--	736.03	--	--	--	--	--	1	--	--	--	--	1	--
149	148BRE+91.99	37.50 RT	740.28	--	727.42	--	--	--	--	--	1	--	--	--	--	--	--
149A	148BRE+92.15	1.50 LT	740.02	--	735.18	--	--	--	--	--	1	--	--	--	--	1	--
149B	148BRE+92.23	18.00 LT	739.19	--	735.23	--	--	--	--	--	--	--	--	--	1	1	--
EW8	150BRE+00.00	37.0' RT	0.00	--	727.95	--	--	--	1	--	--	--	--	--	--	--	--
	UNDISTRIBUTED		0.00	--		5	--	--	--	--	--	--	--	--	--	--	--
BRAUN ROAD STAGE 1C SUBTOTALS						5	--	--	2	--	67	2	5	--	1	24	19

TO BE DETERMINED BY DEVELOPER

BRAUN ROAD STAGE 2

73B	73BRE+44.17	11.0' RT	742.64	--	737.75	--	--	--	--	--	1	--	--	--	--	--	--
73C	73BRW+44.21	1.0' RT	742.87	--	737.79	--	--	--	--	--	1	--	--	--	--	--	--
73D	73BRW+44.28	49.0' LT	742.88	--	738.08	--	--	--	--	--	1	--	--	--	--	--	--
75C	74BRW+82.94	1.0' RT	741.67	--	737.06	--	--	--	--	--	1	--	--	--	--	--	--
75D	74BRW+82.87	46.5' LT	742.16	--	737.40	--	--	--	--	--	1	--	--	--	--	--	--
77B	77BRE+03.24	18.00 LT	738.50	--	735.87	--	--	--	--	--	--	--	--	--	1	1	--
77C	77BRW+02.63	1.50 RT	740.89	--	735.92	--	--	--	--	--	1	--	--	--	--	1	--
77D	77BRW+02.40	37.00 LT	741.13	--	736.56	--	--	--	--	--	1	--	--	--	--	--	--
80F	79BRW+25.00	1.50 RT	739.90	--	735.08	--	--	--	--	--	--	--	1	--	--	--	--
80G	79BRW+51.54	37.00 LT	740.20	--	733.89	--	--	--	--	--	1	--	--	--	--	--	--
80I	79BRW+24.43	37.00 LT	740.14	--	736.21	--	--	--	--	--	--	--	1	--	--	--	--
EW1	79BRW+86.04	75.20 LT	0.00	--	734.60	--	--	--	1	--	--	--	--	--	--	--	--
81B	81BRE+36.89	18.00 LT	738.95	--	734.23	--	--	--	--	--	--	--	--	--	1	1	--
81C	81BRW+36.35	1.50 RT	741.60	--	734.28	--	--	--	--	--	1	--	--	--	--	1	--
81D	81BRW+36.43	37.00 LT	741.84	--	734.92	--	--	--	--	--	1	--	--	--	--	--	--
86B	85BRE+78.76	18.00 LT	740.95	--	736.70	--	--	--	--	--	--	--	--	--	1	1	--
86C	85BRW+77.99	1.50 RT	741.99	--	736.75	--	--	--	--	--	1	--	--	--	--	1	--
86D	85BRW+76.91	37.00 LT	742.26	--	736.89	--	--	--	--	--	1	--	--	--	--	--	--
88B	87BRE+99.20	18.00 LT	738.97	--	735.47	--	--	--	--	--	--	--	--	--	1	1	--
88C	87BRW+98.71	1.50 RT	740.02	--	735.52	--	--	--	--	--	1	--	--	--	--	1	--
88D	87BRW+97.91	37.00 LT	740.25	--	735.66	--	--	--	--	--	1	--	--	--	--	--	--
91D	90BRE+73.76	18.00 LT	737.34	--	733.60	--	--	--	--	--	--	--	--	--	1	1	--
91E	90BRW+73.24	1.50 RT	738.28	--	733.65	--	--	--	--	--	--	--	1	--	--	1	--
91F	90BRW+47.12	1.50 RT	738.34	--	733.74	--	--	--	--	--	1	--	--	--	--	1	--
91G	90BRW+73.70	37.00 LT	738.55	--	733.79	--	--	--	--	--	--	--	1	--	--	--	--

STORM SEWER STRUCTURES (CONT)

						611.2006	611.2007	611.8120.S	611.9800.S	611.3230	611.3901	633.5200	
STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	MANHOLES 6-FT DIAMETER EACH	MANHOLES 7-FT DIAMETER EACH	COVER PLATE TEMPORARY EACH	PIPE GRATES EACH	INLETS 2x3-FT DIAMETER EACH	INLETS MEDIAN 1 GRATE EACH	MARKERS CULVERT END EACH	NOTES
132B	131BRE+96.53	37.50 RT	749.37	--	743.00	--	--	--	--	--	--	--	--
132D	132BRE+05.04	1.50 LT	749.14	--	745.03	--	--	--	--	--	--	--	--
134	134BRE+10.50	37.50 RT	750.58	--	741.96	1	--	--	--	--	--	--	--
134A	134BRE+10.07	1.50 LT	750.31	--	744.65	--	--	--	--	--	--	--	--
136	136BRE+31.40	37.50 RT	752.01	--	740.89	1	--	--	--	--	--	--	--
136A	136BRE+30.97	1.50 LT	751.76	--	746.06	--	--	--	--	--	--	--	--
138	138BRE+36.60	37.50 RT	753.21	--	739.89	--	--	--	--	--	--	--	--
120F	119BRE87.61	11.0' LT	759.97	--	754.33	--	--	--	--	1	--	--	--
144	144BRE+56.10	37.50 RT	743.25	--	735.01	1	--	--	--	--	--	--	--
144A	144BRE+55.40	1.00 LT	743.01	--	736.86	--	--	--	--	1	--	--	--
147	147BRE+17.39	37.00 RT	740.81	--	734.15	1	--	--	--	--	--	--	--
147A	147BRE+16.68	1.50 LT	740.56	--	736.03	--	--	--	--	--	--	--	--
149	148BRE+91.99	37.50 RT	740.28	--	727.42	--	1	--	--	--	--	--	--
149A	148BRE+92.15	1.50 LT	740.02	--	735.18	--	--	--	--	--	--	--	--
149B	148BRE+92.23	18.00 LT	739.19	--	735.23	--	--	--	--	--	--	--	--
EW8	150BRE+00.00	37.0' RT	0.00	--	727.95	--	--	--	1	--	--	2	
	UNDISTRIBUTED		0.00	--		--	--	10	--	--	--	--	--
BRAUN ROAD STAGE 1C SUBTOTALS						12	5	10	2	15	--	4	
TO BE DETERMINED BY DEVELOPER													
BRAUN ROAD STAGE 2													
73B	73BRE+44.17	11.0' RT	742.64	--	737.75	--	--	--	--	1	--	--	--
73C	73BRW+44.21	1.0' RT	742.87	--	737.79	--	--	--	--	1	--	--	--
73D	73BRW+44.28	49.0' LT	742.88	--	738.08	--	--	--	--	1	--	--	--
75C	74BRW+82.94	1.0' RT	741.67	--	737.06	--	--	--	--	1	--	--	--
75D	74BRW+82.87	46.5' LT	742.16	--	737.40	--	--	--	--	1	--	--	--
77B	77BRE+03.24	18.00 LT	738.50	--	735.87	--	--	--	--	--	--	--	--
77C	77BRW+02.63	1.50 RT	740.89	--	735.92	--	--	--	--	--	--	--	--
77D	77BRW+02.40	37.00 LT	741.13	--	736.56	--	--	--	--	1	--	--	--
80F	79BRW+25.00	1.50 RT	739.90	--	735.08	--	--	--	--	1	--	--	--
80G	79BRW+51.54	37.00 LT	740.20	--	733.89	1	--	--	--	--	--	--	--
80I	79BRW+24.43	37.00 LT	740.14	--	736.21	--	--	--	--	1	--	--	--
EW1	79BRW+86.04	75.20 LT	0.00	--	734.60	--	--	--	1	--	--	2	--
81B	81BRE+36.89	18.00 LT	738.95	--	734.23	--	--	--	--	--	--	--	--
81C	81BRW+36.35	1.50 RT	741.60	--	734.28	--	--	--	--	--	--	--	--
81D	81BRW+36.43	37.00 LT	741.84	--	734.92	--	--	--	--	1	--	--	--
86B	85BRE+78.76	18.00 LT	740.95	--	736.70	--	--	--	--	--	--	--	--
86C	85BRW+77.99	1.50 RT	741.99	--	736.75	--	--	--	--	--	--	--	--
86D	85BRW+76.91	37.00 LT	742.26	--	736.89	--	--	--	--	1	--	--	--
88B	87BRE+99.20	18.00 LT	738.97	--	735.47	--	--	--	--	--	--	--	--
88C	87BRW+98.71	1.50 RT	740.02	--	735.52	--	--	--	--	--	--	--	--
88D	87BRW+97.91	37.00 LT	740.25	--	735.66	--	--	--	--	1	--	--	--
91D	90BRE+73.76	18.00 LT	737.34	--	733.60	--	--	--	--	--	--	--	--
91E	90BRW+73.24	1.50 RT	738.28	--	733.65	--	--	--	--	--	--	--	--
91F	90BRW+47.12	1.50 RT	738.34	--	733.74	--	--	--	--	--	--	--	--
91G	90BRW+73.70	37.00 LT	738.55	--	733.79	--	--	--	--	1	--	--	--

STORM SEWER STRUCTURES (CONTINUED)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH* EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH* EACH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH* EACH	611.0535 MANHOLE COVERS TYPE JS EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	SPV.0060.010 INLET COVERS BEEHIVE EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH
91H	91BRW+01.21	37.00 LT	738.53	--	733.89	--	--	--	--	--	1	--	--	--	--	--	--
91I	90BRW+47.52	37.00 LT	738.56	--	733.88	--	--	--	--	--	1	--	--	--	--	--	--
92B	92BRE+28.34	18.00 LT	737.60	--	734.17	--	--	--	--	--	--	--	--	--	1	1	--
92C	92BRW+27.68	1.50 RT	738.61	--	734.22	--	--	--	--	--	1	--	--	--	--	1	--
92D	92BRW+27.37	37.00 LT	738.85	--	734.36	--	--	--	--	--	1	--	--	--	--	--	--
94B	94BRE+45.67	18.00 LT	739.20	--	735.01	--	--	--	--	--	--	--	--	--	1	1	--
94C	94BRW+45.22	1.50 RT	740.23	--	735.06	--	--	--	--	--	1	--	--	--	--	1	--
94D	94BRW+44.81	37.00 LT	740.47	--	735.20	--	--	--	--	--	1	--	--	--	--	--	--
96B	96BRW+46.03	1.50 RT	741.96	--	737.20	--	--	--	--	--	1	--	--	--	--	--	--
96C	96BRW+46.02	37.00 LT	742.19	--	737.44	--	--	--	--	--	1	--	--	--	--	--	--
99D	98BRW+74.56	1.00 RT	743.84	--	738.81	--	--	--	--	--	1	--	--	--	--	--	--
99E	98BRW+74.08	37.00 LT	744.08	--	738.95	--	--	--	--	--	1	--	--	--	--	--	--
101D	101BRE+43.10	11.5' LT	745.67	--	740.38	--	--	--	--	--	1	--	--	--	--	1	--
101E	101BRW+01.23	11.50 RT	745.39	--	740.18	--	--	--	--	--	--	1	--	--	--	1	--
101F	101BRW+01.32	1.00 RT	745.63	--	740.21	--	--	--	--	--	--	1	--	--	--	--	--
101G	101BRW+01.18	37.0' LT	745.86	--	740.39	--	--	--	--	--	1	--	--	--	--	--	--
103B	103BRW+14.96	23.10 RT	747.52	--	742.30	--	--	--	--	--	1	--	--	--	--	--	--
103C	103BRW+14.02	37.0' LT	747.31	--	742.56	--	--	--	--	--	1	--	--	--	--	--	--
105B	104BRE+80.30	18.00 LT	747.17	--	742.45	--	--	--	--	--	--	--	--	--	1	1	--
105C	104BRW+79.53	1.50 RT	749.04	--	742.50	--	--	--	--	--	1	--	--	--	--	1	--
105D	104BRW+79.41	37.00 LT	748.84	--	743.15	--	--	--	--	--	1	--	--	--	--	--	--
107B	106BRE+79.45	18.00 LT	748.89	--	745.14	--	--	--	--	--	--	--	--	--	1	1	--
107C	106BRW+78.60	1.50 RT	749.95	--	745.19	--	--	--	--	--	1	--	--	--	--	1	--
107D	106BRW+78.41	37.00 LT	750.18	--	745.83	--	--	--	--	--	1	--	--	--	--	--	--
109B	109BRE+10.23	18.00 LT	750.70	--	747.39	--	--	--	--	--	--	--	--	--	1	1	--
109C	109BRW+09.39	1.50 RT	751.73	--	747.44	--	--	--	--	--	1	--	--	--	--	1	--
109D	109BRW+09.09	37.00 LT	751.97	--	747.58	--	--	--	--	--	1	--	--	--	--	--	--
111B	111BRE+37.15	18.00 LT	752.48	--	749.09	--	--	--	--	--	--	--	--	--	1	1	--
111C	111BRW+36.36	1.50 RT	753.52	--	749.14	--	--	--	--	--	1	--	--	--	--	1	--
111D	111BRW+36.38	37.00 LT	753.76	--	749.78	--	--	--	--	--	1	--	--	--	--	--	--
114B	113BRE+63.03	18.00 LT	754.26	--	750.18	--	--	--	--	--	--	--	--	--	1	1	--
114C	113BRW+62.09	1.50 RT	755.30	--	750.23	--	--	--	--	--	1	--	--	--	--	1	--
114D	113BRW+61.90	37.00 LT	755.53	--	750.87	--	--	--	--	--	1	--	--	--	--	--	--
116B	115BRE+88.08	18.00 LT	756.03	--	751.28	--	--	--	--	--	--	--	--	--	1	1	--
116C	115BRW+87.09	1.50 RT	756.89	--	751.33	--	--	--	--	--	1	--	--	--	--	1	--
116D	115BRW+86.86	37.00 LT	757.14	--	751.47	--	--	--	--	--	1	--	--	--	--	--	--
120C	119BRW+86.64	11.00 RT	759.73	--	754.39	--	--	--	--	--	1	--	--	--	--	--	--
120D	119BRW+86.52	1.00 RT	759.97	--	754.43	--	--	--	--	--	1	--	--	--	--	--	--
120E	119BRW+86.32	37.00 LT	760.19	--	754.61	--	--	--	--	--	1	--	--	--	--	--	--
122K	122BRW+62.58	38.00 LT	761.12	--	755.62	--	--	--	--	--	1	--	--	--	--	--	1
123	122BRW+95.31	11.00 RT	q	--	755.35	--	--	--	--	--	--	1	--	--	--	1	--
124C	124BRW+00.08	11.00 RT	759.60	--	754.64	--	--	--	--	--	--	1	--	--	--	--	1
124D	124BRW+00.00	1.00 RT	759.84	--	754.67	--	--	--	--	--	--	1	--	--	--	--	--
124E	123BRW+99.99	49.00 LT	759.82	--	754.91	--	--	--	--	--	1	--	--	--	--	--	--
126B	125BRW+77.42	8.29 RT	757.53	--	752.28	--	--	--	--	--	1	--	--	--	--	--	--
126C	125BRW+76.79	38.52 LT	757.23	--	752.48	--	--	--	--	--	1	--	--	--	--	--	--
128B	127BRE+71.67	18.00 LT	752.46	--	748.21	--	--	--	--	--	--	--	--	--	1	1	--

STORM SEWER STRUCTURES (CONT)

						611.2006	611.2007	611.8120.S	611.9800.S	611.3230	611.3901	633.5200	
STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	MANHOLES 6-FT DIAMETER EACH	MANHOLES 7-FT DIAMETER EACH	COVER PLATE TEMPORARY EACH	PIPE GRATES EACH	INLETS 2x3-FT DIAMETER EACH	INLETS MEDIAN 1 GRATE EACH	MARKERS CULVERT END EACH	NOTES
91H	91BRW+01.21	37.00 LT	738.53	--	733.89	--	--	--	--	1	--	--	--
91I	90BRW+47.52	37.00 LT	738.56	--	733.88	--	--	--	--	1	--	--	--
92B	92BRE+28.34	18.00 LT	737.60	--	734.17	--	--	--	--	--	--	--	--
92C	92BRW+27.68	1.50 RT	738.61	--	734.22	--	--	--	--	--	--	--	--
92D	92BRW+27.37	37.00 LT	738.85	--	734.36	--	--	--	--	1	--	--	--
94B	94BRE+45.67	18.00 LT	739.20	--	735.01	--	--	--	--	--	--	--	--
94C	94BRW+45.22	1.50 RT	740.23	--	735.06	--	--	--	--	--	--	--	--
94D	94BRW+44.81	37.00 LT	740.47	--	735.20	--	--	--	--	1	--	--	--
96B	96BRW+46.03	1.50 RT	741.96	--	737.20	--	--	--	--	1	--	--	--
96C	96BRW+46.02	37.00 LT	742.19	--	737.44	--	--	--	--	1	--	--	--
99D	98BRW+74.56	1.00 RT	743.84	--	738.81	--	--	--	--	1	--	--	--
99E	98BRW+74.08	37.00 LT	744.08	--	738.95	--	--	--	--	1	--	--	--
101D	101BRE+43.10	11.5' LT	745.67	--	740.38	--	--	--	--	--	--	--	--
101E	101BRW+01.23	11.50 RT	745.39	--	740.18	--	--	--	--	--	--	--	--
101F	101BRW+01.32	1.00 RT	745.63	--	740.21	--	--	--	--	1	--	--	--
101G	101BRW+01.18	37.0' LT	745.86	--	740.39	--	--	--	--	1	--	--	--
103B	103BRW+14.96	23.10 RT	747.52	--	742.30	--	--	--	--	1	--	--	--
103C	103BRW+14.02	37.0' LT	747.31	--	742.56	--	--	--	--	1	--	--	--
105B	104BRE+80.30	18.00 LT	747.17	--	742.45	--	--	--	--	--	--	--	--
105C	104BRW+79.53	1.50 RT	749.04	--	742.50	--	--	--	--	--	--	--	--
105D	104BRW+79.41	37.00 LT	748.84	--	743.15	--	--	--	--	1	--	--	--
107B	106BRE+79.45	18.00 LT	748.89	--	745.14	--	--	--	--	--	--	--	--
107C	106BRW+78.60	1.50 RT	749.95	--	745.19	--	--	--	--	--	--	--	--
107D	106BRW+78.41	37.00 LT	750.18	--	745.83	--	--	--	--	1	--	--	--
109B	109BRE+10.23	18.00 LT	750.70	--	747.39	--	--	--	--	--	--	--	--
109C	109BRW+09.39	1.50 RT	751.73	--	747.44	--	--	--	--	--	--	--	--
109D	109BRW+09.09	37.00 LT	751.97	--	747.58	--	--	--	--	1	--	--	--
111B	111BRE+37.15	18.00 LT	752.48	--	749.09	--	--	--	--	--	--	--	--
111C	111BRW+36.36	1.50 RT	753.52	--	749.14	--	--	--	--	--	--	--	--
111D	111BRW+36.38	37.00 LT	753.76	--	749.78	--	--	--	--	1	--	--	--
114B	113BRE+63.03	18.00 LT	754.26	--	750.18	--	--	--	--	--	--	--	--
114C	113BRW+62.09	1.50 RT	755.30	--	750.23	--	--	--	--	--	--	--	--
114D	113BRW+61.90	37.00 LT	755.53	--	750.87	--	--	--	--	1	--	--	--
116B	115BRE+88.08	18.00 LT	756.03	--	751.28	--	--	--	--	--	--	--	--
116C	115BRW+87.09	1.50 RT	756.89	--	751.33	--	--	--	--	--	--	--	--
116D	115BRW+86.86	37.00 LT	757.14	--	751.47	--	--	--	--	1	--	--	--
120C	119BRW+86.64	11.00 RT	759.73	--	754.39	--	--	--	--	1	--	--	--
120D	119BRW+86.52	1.00 RT	759.97	--	754.43	--	--	--	--	1	--	--	--
120E	119BRW+86.32	37.00 LT	760.19	--	754.61	--	--	--	--	1	--	--	--
122K	122BRW+62.58	38.00 LT	761.12	--	755.62	--	--	--	--	--	--	--	--
123	122BRW+95.31	11.00 RT	q	--	755.35	--	--	--	--	--	--	--	--
124C	124BRW+00.08	11.00 RT	759.60	--	754.64	--	--	--	--	--	--	--	--
124D	124BRW+00.00	1.00 RT	759.84	--	754.67	--	--	--	--	1	--	--	--
124E	123BRW+99.99	49.00 LT	759.82	--	754.91	--	--	--	--	1	--	--	--
126B	125BRW+77.42	8.29 RT	757.53	--	752.28	--	--	--	--	1	--	--	--
126C	125BRW+76.79	38.52 LT	757.23	--	752.48	--	--	--	--	1	--	--	--
128B	127BRE+71.67	18.00 LT	752.46	--	748.21	--	--	--	--	--	--	--	--

STORM SEWER STRUCTURES (CONTINUED)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH* EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH* EACH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH* EACH	611.0535 MANHOLE COVERS TYPE JS EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	SPV.0060.010 INLET COVERS BEEHIVE EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH
128C	127BRW+70.79	1.50 RT	753.90	--	748.26	--	--	--	--	--	1	--	--	--	--	1	--
128D	127BRW+70.31	37.00 LT	754.14	--	748.90	--	--	--	--	--	1	--	--	--	--	--	--
130B	129BRE+92.05	18.00 LT	748.88	--	745.80	--	--	--	--	--	--	--	--	--	1	1	--
130C	129BRW+91.71	1.50 RT	750.29	--	745.85	--	--	--	--	--	1	--	--	--	--	1	--
130D	129BRW+91.60	37.00 LT	750.54	--	745.99	--	--	--	--	--	1	--	--	--	--	--	--
132G	132BRW+05.37	1.50 RT	749.15	--	745.12	--	--	--	--	--	1	--	--	--	--	1	--
132H	131BRW+74.00	37.50 LT	749.36	--	743.95	--	--	--	--	--	--	--	1	--	--	--	--
132I	132BRW+00.81	37.50 LT	749.38	--	745.17	--	--	--	--	--	1	--	--	--	--	--	--
132J	131BRW+53.57	37.00 LT	749.39	--	745.17	--	--	--	--	--	1	--	--	--	--	--	--
EW4	131BRW+94.95	78.44 LT	0.00	--	744.44	--	--	--	1	--	--	--	--	--	--	--	--
134B	134BRE+10.04	18.00 LT	748.96	--	744.71	--	--	--	--	--	--	--	--	--	1	1	--
134C	134BRW+09.54	1.50 RT	750.32	--	744.76	--	--	--	--	--	1	--	--	--	--	1	--
134D	134BRW+09.32	37.00 LT	750.57	--	744.90	--	--	--	--	--	1	--	--	--	--	--	--
136B	136BRE+30.86	18.00 LT	750.41	--	746.11	--	--	--	--	--	--	--	--	--	1	1	--
136C	136BRW+30.35	1.50 RT	751.76	--	746.16	--	--	--	--	--	1	--	--	--	--	1	--
136D	136BRW+30.02	37.00 LT	752.00	--	746.30	--	--	--	--	--	1	--	--	--	--	--	--
142C	141BRW+67.62	1.5' RT	749.45	--	745.08	--	--	--	--	--	1	--	--	--	--	1	--
142D	141BRW+67.61	1.0' RT	749.69	--	744.91	--	--	--	--	--	1	--	--	--	--	--	--
143L	143BRW+19.70	10.5' RT	745.55	--	738.89	--	--	--	--	--	1	--	--	--	--	1	--
143N	143BRE+18.85	37.0' LT	746.04	--	739.10	--	--	--	--	--	1	--	--	--	--	--	--
143T	143BRW+19.57	1.00 RT	745.81	--	738.92	--	--	--	--	--	1	--	--	--	--	--	--
144B	144BRE+55.26	11.00 LT	742.38	--	736.90	--	--	--	--	--	1	--	--	--	--	--	--
144C	144BRW+54.66	11.00 RT	742.61	--	736.95	--	--	--	--	--	--	1	--	--	--	--	1
144D	144BRW+54.46	1.00 RT	742.87	--	737.23	--	--	--	--	--	--	1	--	--	--	--	--
144E	144BRW+53.87	37.0' LT	743.11	--	737.41	--	--	--	--	--	1	--	--	--	--	--	--
147B	147BRE+16.68	18.00 LT	739.61	--	736.08	--	--	--	--	--	--	--	--	--	1	1	--
147C	147BRW+16.18	1.50 RT	740.57	--	736.13	--	--	--	--	--	1	--	--	--	--	1	--
147D	147BRW+15.81	37.00 LT	740.81	--	736.27	--	--	--	--	--	1	--	--	--	--	--	--
149C	148BRW+91.82	1.50 RT	740.04	--	735.28	--	--	--	--	--	1	--	--	--	--	1	--
149D	148BRW+91.45	37.00 LT	740.28	--	735.42	--	--	--	--	--	1	--	--	--	--	--	--
101Z	100BRE+36.85	11.2' LT	745.24	--	739.87	--	--	--	--	--	--	1	--	--	--	1	--
100B	100BRE+00.11	39.0' RT	744.57	--	739.70	--	--	--	--	--	1	--	--	--	--	--	--
	UNDISTRIBUTED		0.00	--		5	--	--	--	--	--	--	--	--	--	--	--
BRAUN ROAD STAGE 2 SUBTOTALS						5	--	--	2	--	71	8	5	--	18	45	3
BRAUN ROAD TOTALS						15	--	2	4	1	144	10	12	--	21	72	26

TO BE DETERMINED BY DEVELOPER

STORM SEWER STRUCTURES (CONT)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	EXISTING RIM ELEV	LOWEST INVERT	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.8120.S COVER PLATE TEMPORARY EACH	611.9800.S PIPE GRATES EACH	611.3230 INLETS 2x3-FT DIAMETER EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	633.5200 MARKERS CULVERT END EACH	NOTES
128C	127BRW+70.79	1.50 RT	753.90	--	748.26	--	--	--	--	--	--	--	--
128D	127BRW+70.31	37.00 LT	754.14	--	748.90	--	--	--	--	1	--	--	--
130B	129BRE+92.05	18.00 LT	748.88	--	745.80	--	--	--	--	--	--	--	--
130C	129BRW+91.71	1.50 RT	750.29	--	745.85	--	--	--	--	--	--	--	--
130D	129BRW+91.60	37.00 LT	750.54	--	745.99	--	--	--	--	1	--	--	--
132G	132BRW+05.37	1.50 RT	749.15	--	745.12	--	--	--	--	--	--	--	--
132H	131BRW+74.00	37.50 LT	749.36	--	743.95	--	1	--	--	--	--	--	--
132I	132BRW+00.81	37.50 LT	749.38	--	745.17	--	1	--	--	--	--	--	--
132J	131BRW+53.57	37.00 LT	749.39	--	745.17	--	--	--	--	1	--	--	--
EW4	131BRW+94.95	78.44 LT	0.00	--	744.44	--	--	--	1	--	--	2	--
134B	134BRE+10.04	18.00 LT	748.96	--	744.71	--	--	--	--	--	--	--	--
134C	134BRW+09.54	1.50 RT	750.32	--	744.76	--	--	--	--	--	--	--	--
134D	134BRW+09.32	37.00 LT	750.57	--	744.90	--	--	--	--	1	--	--	--
136B	136BRE+30.86	18.00 LT	750.41	--	746.11	--	--	--	--	--	--	--	--
136C	136BRW+30.35	1.50 RT	751.76	--	746.16	--	--	--	--	--	--	--	--
136D	136BRW+30.02	37.00 LT	752.00	--	746.30	--	--	--	--	1	--	--	--
142C	141BRW+67.62	1.5' RT	749.45	--	745.08	--	--	--	--	--	--	--	--
142D	141BRW+67.61	1.0' RT	749.69	--	744.91	--	--	--	--	1	--	--	--
143L	143BRW+19.70	10.5' RT	745.55	--	738.89	--	--	--	--	--	--	--	--
143N	143BRE+18.85	37.0' LT	746.04	--	739.10	--	--	--	--	1	--	--	--
143T	143BRW+19.57	1.00 RT	745.81	--	738.92	--	--	--	--	1	--	--	TO BE DETERMINED BY DEVELOPER
144B	144BRE+55.26	11.00 LT	742.38	--	736.90	--	--	--	--	1	--	--	--
144C	144BRW+54.66	11.00 RT	742.61	--	736.95	--	--	--	--	--	--	--	--
144D	144BRW+54.46	1.00 RT	742.87	--	737.23	--	--	--	--	1	--	--	--
144E	144BRW+53.87	37.0' LT	743.11	--	737.41	--	--	--	--	1	--	--	--
147B	147BRE+16.68	18.00 LT	739.61	--	736.08	--	--	--	--	--	--	--	--
147C	147BRW+16.18	1.50 RT	740.57	--	736.13	--	--	--	--	--	--	--	--
147D	147BRW+15.81	37.00 LT	740.81	--	736.27	--	--	--	--	1	--	--	--
149C	148BRW+91.82	1.50 RT	740.04	--	735.28	--	--	--	--	--	--	--	--
149D	148BRW+91.45	37.00 LT	740.28	--	735.42	--	--	--	--	1	--	--	--
101Z	100BRE+36.85	11.2' LT	745.24	--	739.87	--	--	--	--	--	--	--	--
100B	100BRE+00.11	39.0' RT	744.57	--	739.70	1	--	--	--	--	--	--	--
	UNDISTRIBUTED		0.00	--		--	--	10	--	--	--	--	--
BRAUN ROAD STAGE 2 SUBTOTALS						2	2	10	2	50	--	4	
BRAUN ROAD TOTALS						16	8	41	6	66	--	12	

TO BE DETERMINED BY DEVELOPER

3

3

DELETED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	MISCELLANEOUS QUANTITIES – BRAUN ROAD	SHEET: 377 E

3

3

DELETED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	MISCELLANEOUS QUANTITIES – BRAUN ROAD	SHEET: 378 E

3

3

DELETED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	MISCELLANEOUS QUANTITIES – BRAUN ROAD	SHEET: 379	E

3

3

DELETED

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	MISCELLANEOUS QUANTITIES – BRAUN ROAD	SHEET: 380 E

PIPE UNDERDRAIN

ROADWAY	STRUCTURE NUMBER	STATION	OFFSET	SPV.0090.002 PIPE UNDERDRAIN 6-INCH SPECIAL LF
BRAUN STAGE 1C				
	80	79BRE+51.95	37.50 RT	60
	80C	79BRE+20.45	1.50 LT	50
	80B	79BRE+51.80	1.50 LT	50
	79	79BRE+09.14	36.70 RT	50
	80A	79BRE+76.95	36.70 RT	50
	91C	90BRE+47.46	1.50 LT	50
	91B	90BRE+73.59	1.50 LT	50
	90A	89BRE+54.29	37.50 RT	50
	90	90BRE+34.63	37.50 RT	75
	91	90BRE+72.97	37.50 RT	60
	91A	91BRE+40.01	37.50 RT	50
	132	131BRE+75.35	37.50 RT	40
	132C	131BRE+75.05	1.50 LT	50
	132D	132BRE+05.04	1.50 LT	50
	132A	131BRE+54.75	37.50 RT	50
	132B	131BRE+96.53	37.50 RT	50
UNDISTRIBUTED				200
STAGE 1C SUBTOTAL				1035
BRAUN STAGE 2				
	80G	79BRW+51.54	37.00 LT	58
	80H	79BRW+71.54	37.00 LT	50
	80I	79BRW+07.26	37.00 LT	50
	80F	79BRW+19.81	1.50 RT	50
	80E	79BRW+51.41	1.50 RT	50
	91I	90BRW+47.52	37.00 LT	50
	91G	90BRW+73.70	37.00 LT	50
	91H	91BRW+01.21	37.00 LT	50
	91F	90BRW+47.12	1.50 RT	50
	91E	90BRW+73.24	1.50 RT	50
	132H	131BRW+74.00	37.00 LT	40
	132J	131BRW+53.57	37.00 LT	50
	132I	131BRW+95.16	37.00 LT	50
	132F	131BRW+74.62	1.50 RT	50
	132G	132BRW+05.37	1.50 RT	50
UNDISTRIBUTED				200
STAGE 2 SUBTOTAL				948
PROJECT 1030-24-79 TOTALS				1983

TEMPORARY CULVERT PIPE ITEMS

INLET END STATION	OFFSET	520.2015 CULVERT PIPE TEMPORARY 15-INCH LF	522.1015* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH
BRAUN STAGE 1A			
73BRE+57	50' LT	15	2
75BRE+68	50' LT	15	2
84BRE+58	47' LT	15	2
PROJECT 2704-09-70 TOTALS		45	6

* ADDITIONAL QUANTITIES ELSEWHERE

POND OUTLET STORM SEWER STRUCTURE

		SPV.0060.004 POND A OUTLET STORM SEWER STRUCTURE EACH
STA. 12PA+50.58, 0.32' LT	POND A	1
PROJECT 2704-09-70 TOTAL		1

POND LINER CLAY

	640.1303.S POND LINER CLAY CY
POND A	1,223
PROJECT 2704-09-70 TOTAL	1,223

3

BIORETENTION

				SPV.0060.725	SPV.0060.726	SPV.0060.727
				BIORETENTION CELL A	BIORETENTION CELL B	BIORETENTION CELL C
STAGE	ROADWAY	STATION	OFFSET	EACH	EACH	EACH
2B	**Braun Road**					
		~~72BRE+49~~	~~22.65' LT~~	--	--	--
		~~74BRE+68~~	~~18' LT~~	--	--	--
		76BRE+90	18' LT	1	--	--
		79BRE+41	18' LT	--	--	1
		81BRE+50	18' LT	1	--	--
		85BRE+65	18' LT	--	1	--
		85BRE+65	18' LT	1	--	--
		90BRE+67	18' LT	--	--	1
		92BRE+41	18' LT	1	--	--
		94BRE+59	18' LT	--	1	--
		104BRE+73	18' LT	--	1	--
		106BRE+93	18' LT	1	--	--
		109BRE+23	18' LT	--	1	--
		111BRE+50	18' LT	1	--	--
		113BRE+75	18' LT	--	1	--
		116BRE+00	18' LT	1	--	--
		127BRE+58	18' LT	--	1	--
		129BRE+79	18' LT	1	--	--
		131BRE+85	18' LT	--	--	1
		134BRE+24	18' LT	1	--	--
		136BRE+45	18' LT	--	1	--
		146BRE+58	18' LT	1	--	--
		148BRE+80	18' LT	--	1	--
TOTALS				10	8	3

TEMPORARY CULVERT PIPE ITEMS

ROADWAY	STATION	OFFSET	SPV.0060.015 SLIP-IN CHECK VALVE FOR 24" INSIDE DIAMETER PIPE EACH
STAGE 1A			
BRAUN ROAD	85BRE+76.79	117.93'RT	1
STAGE 1A SUBTOTAL			1
PROJECT 2704-09-70 TOTALS			1

BRAUN ROAD & FOXCONN DRIVEWAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

3

SUMMARY OF STATE FURNISHED MATERIALS - FOR INFORMATION ONLY

QUANTITY	UNIT	DESCRIPTION
1	EACH	TRAFFIC SIGNAL CABINET WITH CONTROLLER AND CO-PROCESSOR
4	EACH	POLES TYPE 12
2	EACH	MONOTUBE ARMS 40 FT
2	EACH	MONOTUBE ARMS 45 FT
4	EACH	EVP DETECTOR HEAD WITH CONFIRMATION BEACONS (HEADS A, B, C, D)
2	EACH	RADAR DETECTOR UNIT - ADVANCE (RA1, RA2)
2	EACH	RADAR DETECTOR UNIT - MATRIX (RM1, RM2)
1	EACH	CELL MODEM
1	EACH	ETHERNET SWITCH

CONDUIT

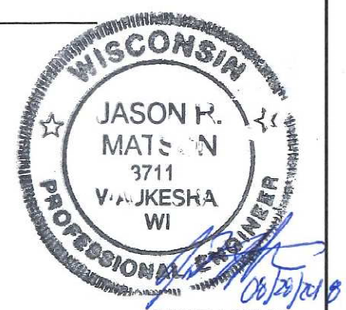
FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
CB1	PB1	--	57
PB1	PB2	--	54
PB2	PB3	--	62
PB3	PB4	--	96
PB4	PB5	--	148
PB5	PB6	--	36
PB5	PB7	--	52
PB7	PB8	--	136
PB8	PB9	46	--
PB8	PB10	--	48
PB10	PB11	--	108
PB11	PB12	34	--
PB11	PB13	--	102
PB13	PB14	--	62
PB14	PB15	--	50
PB15	PB16	--	46
PB16	PB17	--	148
PB17	PB18	--	36
PB17	PB19	--	60
PB19	PB20	--	134
PB20	PB21	52	--
PB20	PB22	--	48
PB22	PB23	--	108
PB23	PB24	23	--
PB23	PB25	--	48
PB25	CB1	--	24
	SUBTOTALS	155	1663

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONDUIT (CONT.)

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
PB3	SB1	19	--
PB3	SB2	--	35
PB4	SB3	4	--
PB6	SB4	10	--
PB6	SB5	--	19
PB9	SB6	10	--
PB10	SB7	14	--
PB14	SB8	19	--
PB14	SB9	--	35
PB15	SB10	19	--
PB16	SB11	4	--
PB18	SB12	10	--
PB18	SB13	--	19
PB21	SB14	8	--
PB22	SB15	14	--
	SUBTOTALS	131	108
	TOTALS	286	1771

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	MISCELLANEOUS QUANTITIES	SHEET: 384	E

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BRAUN ROAD & FOXCONN DRIVEWAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

3

LOOP DETECTOR SCHEDULE

LOOP NUMBER	HOMERUN PB	STATION	LOCATION	SIZE (FT)X(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 LOOP DETECTOR LEAD IN CABLE LF	655.0800 LOOP DETECTOR WIRE LF
11	PB10	120BRE+80.4	18.0' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	325	226
12	PB10	121BRE+08.4	18.0' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	325	226
51	PB22	123BRW+05.6	18.0' RT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	95	226
52	PB22	122BRW+77.6	18.0' RT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	95	226
S1	PB12	120BRW+50.0	30.0' LT	6'X6'	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	48	413	250
S2	PB12	120BRW+50.0	18.0' LT	6'X6'	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	413	370
S3	PB12	120BRW+50.0	6.0' LT	6'X6'	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	413	490
S5	PB24	123BRE+25.0	30.0' RT	6'X6'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	48	64	154
S6	PB24	123BRE+25.0	18.0' RT	6'X6'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72	64	226
S7	PB24	123BRE+25.0	6.0' RT	6'X6'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	64	298
							TOTALS	720	2271	2692

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

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3

PULL BOXES STEEL

PULL BOX NO.	STATION	LOCATION	653.0135* PULL BOXES STEEL 24X36-INCH EACH	653.0140* PULL BOXES STEEL 24X42-INCH EACH
PB1	122BRE+77.5	76.0' RT	--	1
PB2	3005FC2B+57.0	50.1' RT	--	1
PB3	3005FC2B+57.0	19.2' RT	--	1
PB4	3005FC2A+57.0	7.0' RT	--	1
PB5	3005FC2A+57.0	66.8' LT	--	1
PB6	3005FC2A+82.6	40.9' LT	--	1
PB7	120BRE+84.4	62.4' RT	--	1
PB8	120BRE+84.4	6.0' LT	--	1
PB9	121BRE+30.0	6.0' LT	1	--
PB10	120BRW+83.6	6.0' RT	--	1
PB11	120BRW+83.6	48.0' LT	--	1
PB12	120BRW+50.0	44.8' LT	1	--
PB13	4000N4A+76.0	50.0' LT	--	1
PB14	4000N4A+76.0	19.1' LT	--	1
PB15	4000N4A+76.0	6.0' RT	--	1
PB16	4000N4B+76.0	7.0' LT	--	1
PB17	4000N4B+76.0	66.8' RT	--	1
PB18	4000N4B+50.6	40.6' RT	--	1
PB19	123BRW+01.6	60.8' LT	--	1
PB20	123BRW+01.6	6.0' RT	--	1
PB21	122BRW+50.0	6.0' RT	1	--
PB22	123BRE+02.4	6.0' LT	--	1
PB23	123BRE+02.4	47.6' RT	--	1
PB24	123BRE+25.0	45.2' RT	1	--
PB25	123BRE+02.4	63.7' RT	--	1
		TOTALS	4	21

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

3

CONCRETE BASES

BASE NO.	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	654.0113 CONCRETE BASES TYPE 13 EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	122BRE+95.0	67.6' RT	--	--	--	1
SB1	3005FC2B+75.5	18.6' RT	1	--	--	--
SB2	122BRE+41.7	44.0' RT	--	--	1	--
SB3	3005FC2A+52.5	7.0' RT	--	1	--	--
SB4	121BRE+38.2	42.8' RT	1	--	--	--
SB5	3005FC2A+75.0	23.0' LT	--	--	1	--
SB6	121BRE+39.5	6.0' LT	--	1	--	--
SB7	120BRW+97.6	6.0' RT	1	--	--	--
SB8	4000N4A+57.5	18.6' LT	1	--	--	--
SB9	121BRW+40.3	44.0' LT	--	--	1	--
SB10	4000N4A+57.5	6.0' RT	1	--	--	--
SB11	4000N4B+80.0	7.0' LT	--	1	--	--
SB12	122BRW+43.8	42.8' LT	1	--	--	--
SB13	4000N4B+58.0	23.0' RT	--	--	1	--
SB14	122BRW+42.5	6.0' RT	--	1	--	--
SB15	122BRE+88.4	6.0' LT	1	--	--	--
		TOTALS	7	4	4	1

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

BRAUN ROAD & FOXCONN DRIVEWAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

UNDERGROUND TRAFFIC SIGNAL CABLE NO. 14

FROM	TO	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF
CB1	SB1	--	146
CB1	SB2	--	162
CB1	SB3	195	--
CB1	SB4	--	343
CB1	SB5	--	352
CB1	SB6	479	--
CB1	SB7	461	--
CB1	SB8	--	495
CB1	SB9	--	511
CB1	SB10	454	--
CB1	SB11	400	--
CB1	SB12	--	368
CB1	SB13	--	377
CB1	SB14	253	--
CB1	SB15	151	--
	TOTALS	2393	2754

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ABOVE GROUND TRAFFIC SIGNAL CABLE NO. 14

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240* CABLE TRAFFIC SIGNAL 7-14 AWG LF
SB1	HEAD 15	19	--
SB1	HEAD 25	--	22
SB1	HEAD 33	15	--
SB2	HEAD 2	63	--
SB2	HEAD 3	51	--
SB2	HEAD 4	39	--
SB2	HEAD 32	15	--
SB3	HEAD 18	19	--
SB4	HEAD 1	19	--
SB4	HEAD 13	--	22
SB4	HEAD 27	15	--
SB5	HEAD 22	42	--
SB5	HEAD 23	19	--
SB5	HEAD 26	--	67
SB5	HEAD 34	15	--
SB6	HEAD 14	--	22
SB7	HEAD 5	--	22
SB8	HEAD 21	19	--
SB8	HEAD 29	15	--
SB9	HEAD 9	63	--
SB9	HEAD 10	51	--
SB9	HEAD 11	39	--
SB9	HEAD 28	15	--
SB11	HEAD 24	--	22
SB12	HEAD 6	--	22
SB12	HEAD 8	19	--
SB12	HEAD 31	15	--
SB13	HEAD 16	42	--
SB13	HEAD 17	19	--
SB13	HEAD 19	66	--
SB13	HEAD 20	54	--
SB13	HEAD 30	15	--
SB14	HEAD 7	--	22
SB15	HEAD 12	--	22
	TOTAL	763	243

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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BRAUN ROAD & FOXCONN DRIVEWAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

LIGHTING WIRE

FROM	TO	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF
CB1	SB3	195	--
SB3	LUMIN (2)	--	234
SB3	SB6	316	--
SB6	LUMIN (2)	--	234
CB1	SB14	253	--
SB14	LUMIN (2)	--	234
SB14	SB11	323	--
SB11	LUMIN (2)	--	234
	TOTALS	1087	936

ELECTRICAL WIRE TRAFFIC SIGNALS

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
CB1	SB1	146
SB1	SB2	78
SB2	SB3	127
SB3	SB4	180
SB4	SB5	53
SB5	SB6	293
SB6	SB7	150
SB7	SB8	241
SB8	SB9	78
SB9	SB10	119
SB10	SB11	86
SB11	SB12	180
SB12	SB13	53
SB13	SB14	300
SB14	SB15	154
SB15	CB1	151
PB1	CB1	42
PB2	CB1	76
PB3	SB2	55
PB4	SB3	24
PB5	SB5	91
PB6	SB5	39
PB7	SB5	133
PB8	SB6	92
PB9	SB6	30
PB10	SB7	34
PB11	SB7	104
PB13	SB9	102
PB14	SB9	55
PB15	SB10	39
PB16	SB11	24
PB17	SB13	91
PB18	SB13	39
PB19	SB13	137
PB20	SB14	96
PB21	SB14	28
PB22	SB15	34
PB23	CB1	63
PB25	CB1	31
	TOTAL	3848

3

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BRAUN ROAD & FOXCONN DRIVEWAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

3

TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG LF	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF
CB1	SB2 (HEAD B)	232	232
CB1	SB5 (HEAD C)	427	427
CB1	SB9 (HEAD A)	581	581
CB1	SB13 (HEAD D)	452	452
	TOTALS	1692	1692

ELECTRICAL SERVICE METER BREAKER PEDESTAL
BRAUN ROAD & FOXCONN DRIVEWAY

BASE NO.	656.0200.301 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS
CB1	1
TOTAL	1

***FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

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CAST BASES, POLES, STANDARDS, MONOTUBE, PUSH BUTTONS, AND LUMINAIRES

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255* TRANSFORMER BASES BREAKAWAY 11 1/2 INCH BOLT CIRCLE EACH	657.0310 POLES TYPE 3 EACH	657.0405 TRAFFIC SIGNAL STANDARDS ALUMINUM 3.5-FT EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH
SB1	1	--	--	--	--	1	--
SB2	--	--	--	--	--	--	--
SB3	--	1	1	--	--	--	2
SB4	1	--	--	--	--	1	--
SB5	--	--	--	--	--	--	--
SB6	--	1	1	--	--	--	2
SB7	1	--	--	--	--	1	--
SB8	1	--	--	--	1	--	--
SB9	--	--	--	--	--	--	--
SB10	1	--	--	1	--	--	--
SB11	--	1	1	--	--	--	2
SB12	1	--	--	--	--	1	--
SB13	--	--	--	--	--	--	--
SB14	--	1	1	--	--	--	2
SB15	1	--	--	--	--	1	--
TOTALS	7	4	4	1	1	5	8

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CAST BASES, POLES, MONOTUBE, PUSH BUTTONS, AND LUMINAIRES (CONT.)

SIGNAL BASE NO.	657.1355 INSTALL POLES TYPE 12 EACH	657.1540 INSTALL MONOTUBE ARMS 40-FT EACH	657.1545 INSTALL MONOTUBE ARMS 45-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	--	--	--	1	--
SB2	1	1	--	1	--
SB3	--	--	--	--	2
SB4	--	--	--	1	--
SB5	1	--	1	1	--
SB6	--	--	--	1	2
SB7	--	--	--	--	--
SB8	--	--	--	1	--
SB9	1	1	--	1	--
SB10	--	--	--	1	--
SB11	--	--	--	--	2
SB12	--	--	--	1	--
SB13	1	--	1	1	--
SB14	--	--	--	1	2
SB15	--	--	--	--	--
TOTALS	4	2	2	11	8

BRAUN ROAD & FOXCONN DRIVEWAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

TRAFFIC SIGNAL AND PEDESTRIAN FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
1	SB4	1	--	--
2	SB2	1	--	--
3	SB2	1	--	--
4	SB2	1	--	--
5	SB7	--	1	--
6	SB12	--	1	--
7	SB14	--	1	--
8	SB12	1	--	--
9	SB9	1	--	--
10	SB9	1	--	--
11	SB9	1	--	--
12	SB15	--	1	--
13	SB4	--	1	--
14	SB6	--	1	--
15	SB1	1	--	--
16	SB13	1	--	--
17	SB13	1	--	--
18	SB3	1	--	--
19	SB13	1	--	--
20	SB13	1	--	--
21	SB8	1	--	--
22	SB5	1	--	--
23	SB5	1	--	--
24	SB11	--	1	--
25	SB1	--	1	--
26	SB5	--	1	--
27	SB4	--	--	1
28	SB9	--	--	1
29	SB8	--	--	1
30	SB13	--	--	1
31	SB12	--	--	1
32	SB2	--	--	1
33	SB1	--	--	1
34	SB5	--	--	1
TOTALS		17	9	8

SIGNAL MOUNTING HARDWARE
BRAUN ROAD & FOXCONN DRIVEWAY

LOCATION	658.5069.301 TRAFFIC SIGNAL MOUNTING HARDWARE LS
BRAUN ROAD & FOXCONN DRIVEWAY	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET
BRAUN ROAD & FOXCONN DRIVEWAY

LOCATION	SPV.0105.301 TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET LS
CB1	1
TOTAL	1

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TRANSPORT AND INSTALL STATE FURNISHED RADAR
DETECTION SYSTEM
BRAUN ROAD & FOXCONN DRIVEWAY

LOCATION	SPV.0105.302 TRANSPORT AND INSTALL STATE FURNISHED RADAR DETECTION SYSTEM LS
BRAUN ROAD & FOXCONN DRIVEWAY	1
TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED EMERGENCY VEHICLE
PREEMPTION (EVP) DETECTOR HEADS WITH CONFIRMATION BEACONS
BRAUN ROAD & FOXCONN DRIVEWAY

LOCATION	SPV.0105.303 TRANSPORT AND INSTALL STATE FURNISHED EMERGENCY VEHICLE PREEMPTION (EVP) DETECTOR HEADS WITH CONFIRMATION BEACONS LS
BRAUN ROAD & FOXCONN DRIVEWAY	1
TOTAL	1

BRAUN ROAD & FOXCONN DRIVEWAY

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

3

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS
BRAUN ROAD & FOXCONN DRIVEWAY

LOCATION	SPV.0105.304 TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS LS
BRAUN ROAD & FOXCONN DRIVEWAY	1
TOTAL	1

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3

COMMUNICATION

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

CONDUIT

652.0225*
CONDUIT
RIGID NONMETALLIC
SCHEDULE 40
2-INCH

FROM	TO	LF
CB1 (S51-1469)	CV123BRE	19
	TOTALS	19

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ELECTRICAL WIRE TRAFFIC SIGNALS

655.0510
ELECTRICAL WIRE
TRAFFIC SIGNALS
12 AWG

FROM	TO	LF
CB1 (S51-1469)	CV123BRE	42
	TOTAL	42

3

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	MISCELLANEOUS QUANTITIES	SHEET: 395	E

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LIGHTING AND MISCELLANEOUS - FINAL

CATEGORY	DESCRIPTION	LOCATION	653.0135* PULL BOXES STEEL 24x36- INCH EACH	654.0105* CONCRETE BASES TYPE 5 EACH	657.0255* TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE (NOTE 1) EACH
5000	BASE BW-7	STA. 72BRE+25.24, 6.07' LT	--	1	1
	BASE BW-8	STA. 74BRE+35.83, 9.95' LT	--	1	1
	BASE BW-9	STA. 76BRE+46.05, 20.80' LT	--	1	1
	BASE BW-10	STA. 78BRE+55.30, 20.15' LT	--	1	1
	BASE BW-11	STA. 80BRE+65.23, 20.33' LT	--	1	1
	BASE BW-12	STA. 82BRE+75.22, 19.30' LT	--	1	1
	BASE BW-13	STA. 84BRE+84.28, 18.73' LT	--	1	1
	BASE BW-14	STA. 86BRE+85.17, 19.81' LT	--	1	1
	BASE BW-15	STA. 89BRE+04.23, 17.95' LT	--	1	1
	BASE BW-16	STA. 91BRE+23.12, 19.93' LT	--	1	1
	BASE BW-17	STA. 93BRE+41.73, 18.21' LT	--	1	1
	BASE BW-18	STA. 95BRE+60.87, 19.00' LT	--	1	1
	BASE BW-19	STA. 97BRE+80.79, 16.00' LT	--	1	1
	BASE BW-20	STA. 99BRE+90.76, 19.51' LT	--	1	1
	BASE BW-22	STA. 101BRE+07.67, 30.36' LT	--	1	1
	PULLBOX PB-BW9	STA. 101BRE+68.12, 6.95' LT	1	--	--
	BASE BW-21	STA. 100BRE+87.42, 61.07' RT	--	1	1
	BASE BW-23	STA. 103BRE+37.20, 9.70' LT	--	1	1
	BASE BW-24	STA. 105BRE+66.96, 17.81' LT	--	1	1
	BASE BW-25	STA. 107BRE+93.78, 17.94' LT	--	1	1
	BASE BW-26	STA. 110BRE+24.07, 18.10' LT	--	1	1
	BASE BW-27	STA. 112BRE+51.19, 17.79' LT	--	1	1
	BASE BW-28	STA. 114BRE+79.25, 18.24' LT	--	1	1
	BASE BW-29	STA. 117BRE+09.35, 18.00' LT	--	1	1
	BASE BW-30	STA. 119BRE+39.52, 30.00' LT	--	1	1
	BASE BH-15	STA. 124BRE+43.21, 6.00' LT	--	1	1
	BASE BH-14	STA. 126BRE+63.77, 18.00' LT	--	1	1
	BASE BH-13	STA. 128BRE+83.98, 18.72' LT	--	1	1
	BASE BH-12	STA. 131BRE+02.41, 18.72' LT	--	1	1
	BASE BH-11	STA. 133BRE+23.11, 19.56' LT	--	1	1
	BASE BH-10	STA. 135BRE+43.45, 18.66' LT	--	1	1
	BASE BH-9	STA. 137BRE+62.59, 17.62' LT	--	1	1
	BASE BH-8	STA. 139BRE+72.35, 18.60' LT	--	1	1
	BASE BH-7	STA. 141BRE+94.35, 16.43' LT	--	1	1
	BASE BH-5	STA. 143BRE+38.08, 30.02' LT	--	1	1
	PULLBOX PB-BH5	STA. 143BRE+40.60, 48.29' RT	1	--	--
	BASE BH-6	STA. 142BRE+76.49, 61.06' RT	--	1	1
	PULL BOX PB-BH4	STA. 144BRE+72.31, 30.36' LT	1	--	--
	BASE BH-4	STA. 145BRE+62.02, 10.68' LT	--	1	1
	BASE BH-3	STA. 147BRE+79.03, 16.87' LT	--	1	1
5000		TOTAL	3	37	37

* = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

NOTES
1. 1/8" ALUMINUM OR STEEL PLATE TO COVER THE TOP OPENING OF THE TRANSFORMER BASE. COVER TO BE BOLTED DOWN. COVER TO PREVENT WATER FROM ENTERING THE TRANSFORMER BASE. COST OF COVER TO BE INCIDENTAL TO THE COST OF THE TRANSFORMER BASE.
2. NO POLES, ARMS, LUMINAIRES, WIRING NOR LIGHTING CONTROL CABINETS FURNISHED UNDER THIS CONTRACT

LIGHTING - WIRE AND CONDUIT - FINAL

CATEGORY	FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 -INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 -INCH LF	REMARKS
5000	STUB	BASE BW-7	54	--	PULL ROPE ONLY - NO WIRING
	BASE BW-7	BASE BW-8	216	--	PULL ROPE ONLY - NO WIRING
	BASE BW-8	BASE BW-9	230	--	PULL ROPE ONLY - NO WIRING
	BASE BW-9	BASE BW-10	237	--	PULL ROPE ONLY - NO WIRING
	BASE BW-10	BASE BW-11	234	--	PULL ROPE ONLY - NO WIRING
	BASE BW-11	BASE BW-12	232	--	PULL ROPE ONLY - NO WIRING
	BASE BW-12	BASE BW-13	234	--	PULL ROPE ONLY - NO WIRING
	BASE BW-13	BASE BW-14	225	--	PULL ROPE ONLY - NO WIRING
	BASE BW-14	BASE BW-15	240	--	PULL ROPE ONLY - NO WIRING
	BASE BW-15	BASE BW-16	240	--	PULL ROPE ONLY - NO WIRING
	BASE BW-16	BASE BW-17	242	--	PULL ROPE ONLY - NO WIRING
	BASE BW-17	BASE BW-18	244	--	PULL ROPE ONLY - NO WIRING
	BASE BW-18	BASE BW-19	241	--	PULL ROPE ONLY - NO WIRING
	BASE BW-19	BASE BW-20	230	--	PULL ROPE ONLY - NO WIRING
	BASE BW-20	BASEBW-22	–	123	PULL ROPE ONLY - NO WIRING
	BASE BW-22	BASE BW-21	–	109	PULL ROPE ONLY - NO WIRING
	BASE BW-22	PB-BW9	–	70	PULL ROPE ONLY - NO WIRING
	PB-BW9	BASE BW-23	170	--	PULL ROPE ONLY - NO WIRING
	BASE BW-23	BASE BW-24	248	--	PULL ROPE ONLY - NO WIRING
	BASE BW-24	BASE BW-25	248	--	PULL ROPE ONLY - NO WIRING
	BASE BW-25	BASE BW-26	251	--	PULL ROPE ONLY - NO WIRING
	BASE BW-26	BASE BW-27	250	--	PULL ROPE ONLY - NO WIRING
	BASE BW-27	BASE BW-28	250	--	PULL ROPE ONLY - NO WIRING
	BASE BW-28	BASE BW-29	250	--	PULL ROPE ONLY - NO WIRING
	BASE BW-29	BASE BW-30	246	--	PULL ROPE ONLY - NO WIRING
	BASE BH-15	BASE BH-14	235	--	PULL ROPE ONLY - NO WIRING
	BASE BH-14	BASE BH-13	242	--	PULL ROPE ONLY - NO WIRING
	BASE BH-13	BASE BH-12	238	--	PULL ROPE ONLY - NO WIRING
	BASE BH-12	BASE BH-11	243	--	PULL ROPE ONLY - NO WIRING
	BASE BH-11	BASE BH-10	241	--	PULL ROPE ONLY - NO WIRING
	BASE BH-10	BASE BH-9	237	--	PULL ROPE ONLY - NO WIRING
	BASE BH-9	BASE BH-8	233	--	PULL ROPE ONLY - NO WIRING
	BASE BH-8	BASE BH-7	240	--	PULL ROPE ONLY - NO WIRING
	BASE BH-7	BASE BH-5	–	154	PULL ROPE ONLY - NO WIRING
	BASE BH-5	PB-BH5	–	84	PULL ROPE ONLY - NO WIRING
	PB-BH5	BASE BH-6	–	71	PULL ROPE ONLY - NO WIRING
	BASE BH-5	PB-BH4	140	--	PULL ROPE ONLY - NO WIRING
	PB-BH4	BASE BH-4	–	92	PULL ROPE ONLY - NO WIRING
	BASE BH-4	BASE BH-3	231	--	PULL ROPE ONLY - NO WIRING
	BASE BH-3	STUB	218	--	PULL ROPE ONLY - NO WIRING
5000		TOTALS	7510	703	

\+ = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

LIGHTING - WIRE AND CONDUIT - FINAL

CATEGORY	FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 -INCH LF	652.0235* CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 -INCH LF	REMARKS
5000	BW-7	STUB	65	--	PULL ROPE ONLY - NO WIRING
	BW-7	BW-8	251	--	PULL ROPE ONLY - NO WIRING
	BW-8	BW-9	245	--	PULL ROPE ONLY - NO WIRING
	BW-9	BW-10	244	--	PULL ROPE ONLY - NO WIRING
	BW-10	BW-11	244	--	PULL ROPE ONLY - NO WIRING
	BW-11	BW-12	247	--	PULL ROPE ONLY - NO WIRING
	BW-12	BW-13	245	--	PULL ROPE ONLY - NO WIRING
	BW-13	BW-14	243	--	PULL ROPE ONLY - NO WIRING
	BW-14	BW-15	239	--	PULL ROPE ONLY - NO WIRING
	BW-15	BW-16	240	--	PULL ROPE ONLY - NO WIRING
	BW-16	BW-17	241	--	PULL ROPE ONLY - NO WIRING
	BW-17	BW-18	243	--	PULL ROPE ONLY - NO WIRING
	BW-18	BW-19	239	--	PULL ROPE ONLY - NO WIRING
	BW-19	PB-BW7	97	--	PULL ROPE ONLY - NO WIRING
	PB-BW7	PB-BW8	--	39	PULL ROPE ONLY - NO WIRING
	PB-BW8	BW-20	137	--	PULL ROPE ONLY - NO WIRING
	BW-20	BW-22	--	106	PULL ROPE ONLY - NO WIRING
	BW-20	BW-23	--	101	PULL ROPE ONLY - NO WIRING
	BW-23	BW-21	--	106	PULL ROPE ONLY - NO WIRING
	BW-23	PB-BW9	43	--	PULL ROPE ONLY - NO WIRING
	PB-BW9	BW-24	200		
	BW-24	BW-25	247		
	BW-25	BW-26	248		
	BW-26	BW-27	251		
	BW-27	BW-28	250		
	BW-28	BW-29	250	--	PULL ROPE ONLY - NO WIRING
	BW-29	STUB	40	--	PULL ROPE ONLY - NO WIRING
	STUB	BH-15	29	--	PULL ROPE ONLY - NO WIRING
	BH-15	BH-14	238	--	PULL ROPE ONLY - NO WIRING
	BH-14	BH-13	243	--	PULL ROPE ONLY - NO WIRING
	BH-13	BH-12	241	--	PULL ROPE ONLY - NO WIRING
	BH-12	BH-11	237	--	PULL ROPE ONLY - NO WIRING
	BH-11	BH-10	234	--	PULL ROPE ONLY - NO WIRING
	BH-10	PB-BH7	114	--	PULL ROPE ONLY - NO WIRING
	PB-BH7	PB-BH6	--	43	PULL ROPE ONLY - NO WIRING
	PB-BH6	BH-9	80	--	PULL ROPE ONLY - NO WIRING
	BH-9	BH-6	--	109	PULL ROPE ONLY - NO WIRING
	BH-9	BH-7	--	103	PULL ROPE ONLY - NO WIRING
	BH-6	BH-8	--	101	PULL ROPE ONLY - NO WIRING
	BH-6	PB-BH5	89	--	PULL ROPE ONLY - NO WIRING
	PB-BH5	PB-BH4	--	61	PULL ROPE ONLY - NO WIRING
	PB-BH4	BH-5	--	91	PULL ROPE ONLY - NO WIRING
	PB-BH4	BH-4	--	51	PULL ROPE ONLY - NO WIRING
	PB-BH4	BH-3	135	--	PULL ROPE ONLY - NO WIRING
	BH-3	BH-2	231	--	PULL ROPE ONLY - NO WIRING
	BH-2	BH-1	252	--	PULL ROPE ONLY - NO WIRING
	BH-1	STUB	40	--	PULL ROPE ONLY - NO WIRING
5000		TOTALS	6912	911	

+ = ADDITIONAL QUANTITIES SHOWN ELSEWHERE

DELETED

3

ITS CONDUIT

CATEGORY	ROADWAY	ITEM ID	LINEAR DISTANCE	671.0122 CONDUIT HDPE 2-DUCT 2-INCH LF	655.0510 ELECTRICAL WIRE TRAFFIC SIGNALS 12 AWG LF
1300	BRAUN ROAD				
		CV71BRE - CV88BRE	1645	1,645	1,654
		CV88BRE - CV99BRE	1190	1,190	1,199
		CV99BRE - CV101BRE	200	200	209
		CV101BRE - CV112BRE	1050	1,050	1,059
		CV112BRE - CV123BRE	1100	1,100	1,109
		CV123BRE - CV133BRE	1000	1,000	1,009
		CV133BRE - CV141BRE	875	875	884
		CV141BRE - CV143BRE	200	200	209
		CV143BRE - CV150BRE	630	630	639
		TOTALS		7,890	7,971

MISCELLANEOUS ITS ITEMS

CATEGORY	ITEM I.D.	670.0200.001 ITS DOCUMENTATION LS
1300	MISCELLANEOUS	1
	TOTAL	1

ITS COMMUNICATION VAULTS

CATEGORY	ROADWAY	ITEM ID	673.0105 COMMUNICATION VAULT TYPE 1 EACH	673.0200 TRACER WIRE MARKER POSTS EACH
1300	BRAUN ROAD			
		CV71BRE	1	1
		CV88BRE	1	1
		CV99BRE	1	1
		CV101BRE	1	1
		CV112BRE	1	1
		CV123BRE	1	1
		CV133BRE	1	1
		CV141BRE	1	1
		CV143BRE	1	1
		CV150BRE	1	1
		TOTALS	10	10

3

FILE NAME : \\minw00\pmwork\jobs\67321\WO_01_Local_Road_ITS\eng\030214_mq_fm.ppt PLOT DATE : 5/19/2018 6:12:53 PM PLOT BY : mdonnelly PLOT NAME : 030214_mq_fm PLOT SCALE : 1:1

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
MP081717		
CONSTRUCTION PROJECT NUMBER 2704-09-70	4.00	8

PLAT OF RIGHT OF WAY REQUIRED FOR

BRAUN ROAD

I-94 EAST FRONTAGE ROAD TO CTH H

BRAUN ROAD — RACINE COUNTY

2-20-2018

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	PUBLIC ROAD ACCESS POINT	PRAP
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REEL / IMAGE	R/I
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTICTIVE DEVELOPMENT EASEMENT	RDE
CERTIFIED SURVEY MAP	CSM	RIGHT	RT
CONCRETE	CONC	RIGHT OF WAY	R/W
COUNTY	CO	SECTION	SEC
COUNTY TRUNK HIGHWAY	CTH	SEPTIC VENT	SEPV
DISTANCE	DIST	SQUARE FEET	SF
CORNER	COR	STATE TRUNK HIGHWAY	STH
DOCUMENT NUMBER	DOC	STATION	STA
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 NUMBER	NGS NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING — TO BE REMOVED
BRIDGE

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN

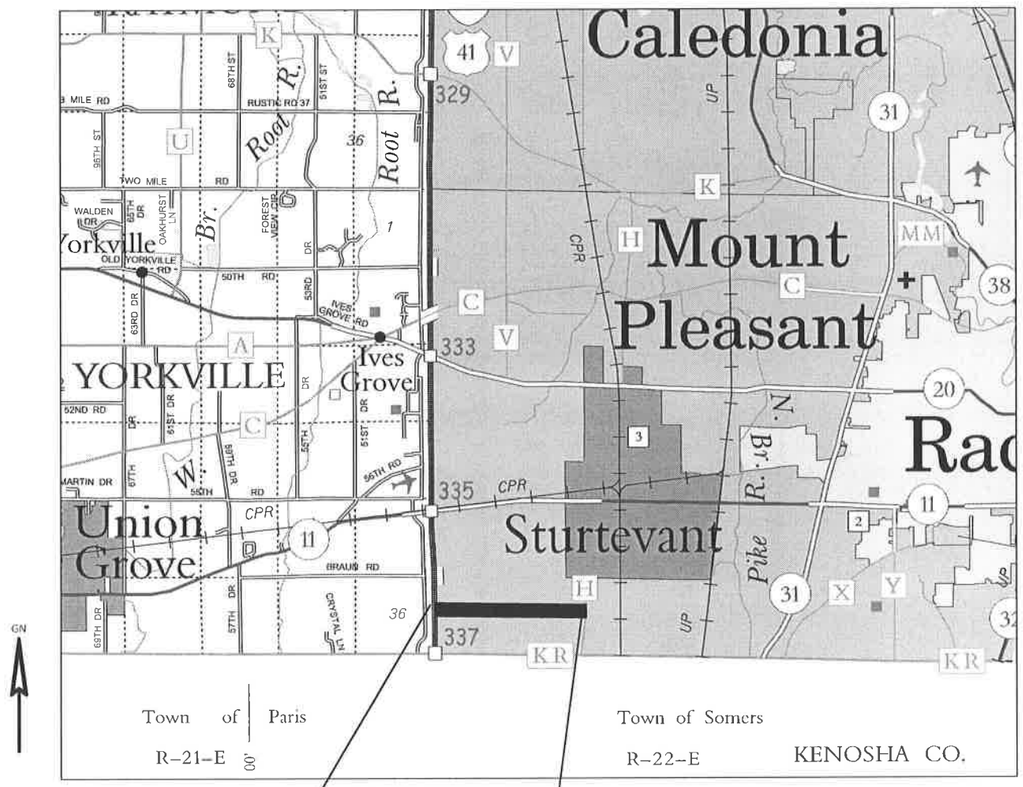
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN IP (1-INCH UNLESS NOTED)

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER (25) UTILITY NUMBER (40)
PARALLEL OFFSETS

CONVENTIONAL UTILITY SYMBOLS

WATER
GAS
TELEPHONE
OVERHEAD TRANSMISSION LINES
ELECTRIC
CABLE TELEVISION
FIBER OPTIC
SANITARY SEWER
STORM SEWER



THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH RIGHT OF WAY PLAT FOR PROJECT MP081717.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, RACINE COUNTY, NAD83(97), 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.

AN EASEMENT FOR HIGHWAY PURPOSES (HE), AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

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 WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING ACCESS CONTROL ALONG BRAUN ROAD HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT -NONE-

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: TPP 1030-24-21-4.02 & -4.03, SS 82.31(2), CSM 3020, CSM 3154.

REVISION DATE:
12/19/2017
1/05/2018
2/13/2018

VILLAGE OF MOUNT PLEASANT

APPROVED BY:

DATE:_____

FILE NAME : I:\TADI\17082 PROJECT FLYING EAGLE\060 CAD\V - SURVEY\020 SURVEY DELIVERABLES (ALTA, CSM, PLAT TEXT)\RW PLATS\TRADITIONAL FORMAT\BRAUN\BRAUN TITLE SHEET.DWG PLOT DATE : 10/18/2017 PLOT BY : PLOT NAME : APPRAISAL PLAT DATE : _____ _____ 4.

LAYOUT NAME: TPP Title

VILLAGE OF MT. PLEASANT

VILLAGE OF STURTEVANT

VILLAGE OF MOUNT PLEASANT

VILLAGE OF MT. PLEASANT

GN

4

4

REVISION DATE 12/19/2017 1/05/2018 2/13/2018	DATE 9/05/2017	SCALE, FEET 0 350 700	HWY: BRAUN ROAD	STATE R/W PROJECT NUMBER MP081717	PLAT SHEET 4. 01
	GRID FACTOR N/A		COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-09-70	PS&E SHEET 399 E

FILE NAME : BRAUN LAYOUT SHEET.DWG
LAYOUT NAME - BRAUN layout

PLOT DATE : 2/13/2018 9:47 AM PLOT BY : BAIBA ROZITE PLOT NAME : PLOT SCALE : 1 IN = 200 FT

WISDOT/CADDS SHEET 25 .03

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA BEING ACQUIRED.
*INDICATES COMPUTED AREA

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	INTEREST REQUIRED	PARCEL AREA ACRES	T.L.E. AREA REQUIRED ACRES	P.L.E. AREA REQUIRED ACRES	R/W AREA REQUIRED NEW ACRES	R/W AREA REQUIRED EXISTING ACRES	R/W AREA REQUIRED TOTAL ACRES	PARCEL NUMBER
1**	4.03	SLAVKO M GRCIC LIVING TRUST DATED MAY 9, 2012	FEE, TLE, AR	8.572	0.371		1.036	0.439	1.475	1
2	4.03	SLAVKO M GRCIC LIVING TRUST DATED MAY 9, 2012	FEE, TLE, AR	4.628	0.282		0.772	0.373	1.095	2
3	4.03	JACK R PETERSEN AND PATRICIA A PETERSEN	FEE, TLE, AR	29.514	0.471		0.755	0.372	1.127	3
4	4.03	LEROY R PETERSEN AND SHARON K PETERSEN	FEE, TLE, AR	29.520	0.282		0.754	0.372	1.126	4
5	4.04	CREUZIGER FARMS INC	FEE, TLE, AR	79.200	0.639		1.717	0.845	2.562	5
6	4.04	GEORGE N CREUZIGER AND VELLABE CREUZIGER	FEE	1.147	--		0.996	0.151	1.147	6
7**	4.04	CREUZIGER FARMS INC AND	FEE, PLE, TLE, AR	80.280	0.755	0.136	2.024	0.997	3.021	7
8	4.05	THOMAS W FLIESS JR	FEE, TLE, AR	22.126*	0.348		0.631	--	0.631	8
9	4.05	RUDOLPH R BAKER AND ATHENA V BAKER	FEE	2.001*	--		2.001	--	2.001	9
10	4.05	SARAH MAYER AND SHAWN MAYER	FEE, TLE, AR	5.255	0.510		1.578	--	1.578	10
11	4.05	RONALD J HOEGSTED AND CAROL M HOEGSTED	FEE	0.643*	--		0.537	0.106	0.643	11
12	4.05	FORREST BAUER AND JENNIFER BAUER	FEE	0.625*	--		0.554	0.071	0.625	12
13	4.05	BOWER TRUST	FEE	0.505	--		0.429	0.076	0.505	13
14	4.05	LINDA LAMPAREK	FEE, TLE, AR	80.390	1.497		1.903	0.934	2.837	14
15	4.06	THOMAS W FLIESS AND CHERIE FLIESS	FEE, TLE, AR	78.621*	0.631		1.695	0.830	2.525	15
16	4.06	TRAVIS S SPENCER AND KATHERINE R SPENCER	FEE	1.652	--		1.652	--	1.652	16
17**	4.07	DOUG R FUNK	FEE	38.830	--		37.922	0.908	38.830	17
18**	4.03	UNIVERSITY OF LAWSONOMY	FEE, TLE, AR	18.670	0.402		1.413	0.590	2.003	18
19	4.03	TODD D POHJOLA AND JULIE B POHJOLA	FEE	1.142	--		1.000	0.102	1.102	19
20	4.03	BROUWERS AND DAVID BROUWERS 1/4 INT	FEE, TLE, AR	37.630	1.175		1.763	0.8686	2.631	20
21	4.04	THEODORE M WASIAK AND JEAN A WASIAK	FEE	5.002	--		4.853	0.150	5.002	21
22	4.04	LYNN S BAUMANN AND LORI ANDERSON	FEE, TLE, AR	59.446*	0.097		0.261	0.128	0.389	22
23	4.04	LAURA A JAHNKE AND JOHN THOMAS ANDERSON	FEE, TLE, AR	5.290*	0.181		0.435	--	0.435	23
24**	4.04	LEE ANN GOOLD AND TIMOTHY J ANDERSON	FEE, PLE	10.000	--	0.076	10.000	--	10.000	24
25**	4.04	BUISSE AND LINDA D RAMOS	FEE, PLE, TLE, AR	33.005*	0.301	0.009	1.189	0.586	1.775	25
26	4.04	CAROL R ECKHOLM AND JAY R ECKHOLM	FEE	1.796	--		1.796	--	1.796	26
27	4.04	SHERRI L SHAVER	FEE	1.999*	--		1.831	0.168	1.999	27
28	4.04	LINDA D RAMOS AND WAYNE P BUISSE	FEE, TLE, AR	43.212*	0.057		0.154	0.076	0.230	28
29	4.05	LINDA D RAMOS AND WAYNE P BUISSE	FEE	0.505	--		0.429	0.076	0.505	29
30	4.05	BUISSE AND LINDA D RAMOS	FEE, TLE, AR	80.458*	0.901		1.904	0.937	2.841	30
31	4.06	BOWER FAMILY TRUST	FEE, TLE, AR	16.796*	0.124		0.335	0.165	0.500	31
32	4.05	BOWER FAMILY TRUST	FEE	1.393*	--		1.256	0.137	1.393	32
33	4.05	SHANNON A HILBERT AND NICHOLAS A HILBERT	FEE	1.132	--		1.020	0.112	1.132	33
34	4.05	JUAN F GARCIA AND SENORINA M GARCIA	FEE	0.999*	--		0.901	0.098	0.999	34
35	4.05	BOWER TRUST LE ROY S	FEE, TLE, AR	20.483*	0.379		1.016	0.500	1.516	35
36	4.06	THOMAS W FLIESS	FEE, TLE, AR	81.395*	0.763		2.049	1.007	3.056	36
37	4.07	THOMAS E RIEDEL AND BARBARA J RIEDEL	FEE, TLE, AR	25.045*	0.979		2.225	0.857	3.082	37
38	4.07	JOSEPH M JANICEK AND KIMBERLY K JANICEK	FEE	1.153*	--		1.029	0.124	1.153	38
40	4.05	RONALD J HOEGSTED AND CAROL M HOEGSTED	FEE, TLE, AR	1.207	0.185		0.054	--	0.054	40
41	4.05	PEUSCHOLD TRUST DANNY C & KIMBERLY A	TLE, AR	0.9331	0.155		--	--	--	41
42	4.05	RANDY S BURROW	FEE, TLE, AR	2.332	0.293		0.662	--	0.662	42
43	4.05	SARAH MAYER AND SHAWN MAYER	FEE	2.749	--		2.749	--	2.749	43
44	4.05	CREUZIGER FARMS	AR	40.54	--		--	--	--	44

4

REVISED: 12/19/2017, 1/05/2018, 2/13/2018**

DATE: 9/05/2017

HWY: BRAUN ROAD

R/W PROJECT NO. MP081717

PLAT SHEET NO: 4.02

COUNTY: RACINE

CONSTRUCTION PROJECT NO. 2704-09-70

400

E

FILE NAME : $$....designfile....$$

PLOT DATE: 2/20/2018 PLOT BY : ---- PLOT NAME : ---- PLOT SCALE: 1

SW 1/4-SW 1/4

SE 1/4-SW 1/4

NW 1/4-NW 1/4

NE 1/4-NW 1/4

SECTION LINE
N0° 07' 52"W 2644.99

SECTION LINE
N0° 17' 38"W 2667.69

1/4 SECTION LINE

1/16 LINE

PL

NO ACCESS TPP
1030-24-21-4.03

NO ACCESS
PROJ. I101-1(3)

L=380.31, R=16407.25
LC=380.30,
N01° 16' 12"W

Y = 170399.04
X = 594126.82
CAST IRON W/
BRASS CAP

Y = 170341.77
X = 596664.43
CAST IRON W/
BRASS CAP

BP: 50+00.00

BEGIN RELOCATION ORDER
0 FEET SOUTH AND 0 FEET
EAST OF THE NORTHWEST
CORNER OF SEC. 31 T3N R22E
STA 50+00.00

N88° 54' 52"E
5.00'

S0° 50' 44"E
137.33'

N0° 17' 00"W
112.96'

S0° 17' 00"E
89.13'

S44° 29' 08"E
103.98'

N44° 36' 37"W
213.49'

S88° 42' 26"E 502.01

N45° 25' 24"E
214.15'

S45° 25' 24"W
103.88'

N0° 27' 15"W 186.16'

S0° 27' 15"E
165.08'

N89° 32' 45"E
7.00'

N1° 17' 34"E
12.00'

S0° 34' 14"E

S0° 22' 06"E

S88° 42' 26"E R.L. BRAUN ROAD= SECTION LINE

TLE FOR DEMOLITION

TLE FOR DEMOLITION

634.38'
562.83'
755.01'
537.13'
290.27'
491.80'
491.72'
135.00'
490.82'
490.81'
490.55'
490.57'
1146.25'
1146.73'
804.43'
192.40'

110.00'
100'
25'
13'
112'
150.00'
75.00'

53+53.03
-172.52'
54+27.55
-100.00'
54+32.87
100.00'
53+60.54
174.56'
62+60.60
125.00'
63+95.57
125.00'
69+00.00
-125.00'/-200.00'
70+10.00
-125.00'/-200.00'
75+35.09
-100.00'/-125.00'
72+00.00
125.00'/275.00'
73+50.00
125.00'/275.00'
75+40.57
100.00'/125.00'

18
19
20

I94 EAST FRONTAGE ROAD

VILLAGE OF MT. PLEASANT

GN

4

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94 & E FRONTAGE RD	TPP 1030-24-21-4.02 & 4.03	VARIES	2011
BRAUN RD	SS 82.31(2)	66'	

REVISION DATE 12/19/2017 1/05/2018 2/13/2018	DATE 11/15/2017 GRID FACTOR N/A	SCALE, FEET 0 100 200	HWY: BRAUN ROAD COUNTY: RACINE	STATE R/W PROJECT NUMBER MP081717 CONSTRUCTION PROJECT NUMBER 2704-09-70	PLAT SHEET 4. 03 PS&E SHEET 401 E

FILE NAME : BRAUN DETAIL SHEETS.DWG
LAYOUT NAME - DETAIL 1 1 IN 200 FT

PLOT DATE : 2/20/2018 11:01 AM PLOT BY : BAIBA ROZITE PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 75

4

GN

VILLAGE OF MT. PLEASANT

SW 1/4-SE 1/4

SE 1/4-SE 1/4

Y = 170341.77
X = 596664.43
CAST IRON W/
BRASS CAP

T 3 N
30 30
31 31
R E
22

1/16 LINE

PL

Pt: 75+38.26

75+35.09
-100.00'/-125.00'

969.10'

146.85'

995.80'

1315.95'

101+69.77
-100.00'/-125.00'

PLE FOR
CULVERT

90+36.23
-144.00'

91+71.23
-144.00'

44.00'

331.45'

135.00'

44.00'

100'

25'

85+04.78
-125.00'

87+04.78
-125.00'

250'

200.00'

169.27'

966.52'

80

85

200.00'

149.24'

90

95

100

33'

40'

S89° 02' 31"E R.L. BRAUN ROAD= SECTION LINE

315.52'

630.95'

534.69'

1315.75'

221.45'

238.17'

100.00'

169.62'

535.03'

238.17'

75+40.57
100.00'/125.00'

77+41.69
125.00'

82+26.80
125.00'

37.00'

87+68.23
137.00'

88+68.23
137.00'

90.00'

10.00'

93+92.87
125.00'

98+35.86
125.00'

101+69.77
100.00'/125.00'

5 6 7 21 22 23 24 25 26 27 28

LOT 1
CSM 3222

LOT 2
CSM 3222

LOT 1
CSM 1611

NW 1/4-NE 1/4

NE 1/4-NE 1/4

VILLAGE OF MT. PLEASANT

1/4 SECTION LINE

SECTION LINE

T 3 N
30 29
31 32
R E
22

Y = 170297.77
X = 599295.57
CAST IRON W/
BRASS CAP

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94 & E FRONTAGE RD	TPP 1030-24-21-4.02 & 4.03	VARIES	2011
BRAUN RD	SS 82.31(2)	66'	

REVISION DATE
12/19/2017
1/05/2018
2/13/2018

DATE 9/05/2017

GRID FACTOR N/A

SCALE, FEET
0 100 200

HWY: BRAUN ROAD

COUNTY: RACINE

STATE R/W PROJECT NUMBER MP081717

CONSTRUCTION PROJECT NUMBER 2704-09-70

PLAT SHEET 4. 04

PS&E SHEET E

FILE NAME: BRAUN DETAIL SHEETS.DWG
LAYOUT NAME - DETAIL 2 1 IN 200 FT

PLOT DATE: 2/20/2018 11:01 AM PLOT BY: BAIBA ROZITE PLOT NAME: PLOT SCALE:

WISDOT/CADDS SHEET 75

4

GN

SW 1/4-SW 1/4

SECTION LINE

Y = 170297.77
X = 599295.57
CAST IRON W/
BRASS CAP

T 3 N R 22 E
30 29
31 32

LOT 4
CSM 3020

LOT 1
CSM 3020

LOT 2
CSM 3020

LOT 3
CSM 3020

WHEATON LN

BRAUN RD

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
WHEATON LANE	CSM 3020	66'	2011
BRAUN RD	SS 82.31(2)	66'	

TLE FOR DEMOLITION

SE 1/4-SW 1/4

T 3 N R 22 E
29 29
32 32

Y = 170277.51
X = 601970.80
CAST IRON W/
BRASS CAP

VILLAGE OF MT. PLEASANT

NW 1/4-NW 1/4

NE 1/4-NW 1/4

REVISION DATE	DATE 9/05/2017	SCALE, FEET 0 100 200	HWY: BRAUN ROAD	STATE R/W PROJECT NUMBER MP081717	PLAT SHEET 4. 05	
12/19/2017 1/05/2018 2/13/2018	GRID FACTOR N/A		COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-09-70	PS&E SHEET 403	E

FILE NAME : BRAUN DETAIL SHEETS.DWG
LAYOUT NAME - DETAIL 3 1 IN 200 FT

PLOT DATE : 2/20/2018 11:01 AM PLOT BY : BAIBA ROZITE PLOT NAME : PLOT SCALE : ####.#####

WISDOT/CADDS SHEET 75

4

VILLAGE OF MT. PLEASANT

GN

Y = 170277.51
X = 601970.80
CAST IRON W/
BRASS CAP

SW 1/4-SE 1/4

Y = 170230.15
X = 604629.10
CAST IRON W/
BRASS CAP

VILLAGE OF MT. PLEASANT

PL

LOT 1
CSM 3154

128+43.42
100.00'/125.00'

100'

25'

15

16

1013.01'

130

1012.99'

135

1329.36'

S88° 58' 46"E R.L. BRAUN ROAD= SECTION LINE

1329.19'

230.42'

85.95'

40

140

128+47.39
100.00'/125.00'

25'

100'

36

139+54.74
-125.00'

140+85.16
-125.00'

141+71.33
-125.00'

141+79.20
100.00'/125.00'

NW 1/4-NE 1/4

VILLAGE OF MT. PLEASANT

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
BRAUN RD	SS 82.31(2), CSM 3154	66'/40'	

REVISION DATE
12/19/2017
1/05/2018
2/13/2018

DATE 9/05/2017

GRID FACTOR N/A

SCALE, FEET
0 100 200

HWY: BRAUN ROAD

COUNTY: RACINE

STATE R/W PROJECT NUMBER MP081717

CONSTRUCTION PROJECT NUMBER 2704-09-70

PLAT SHEET 4. 06

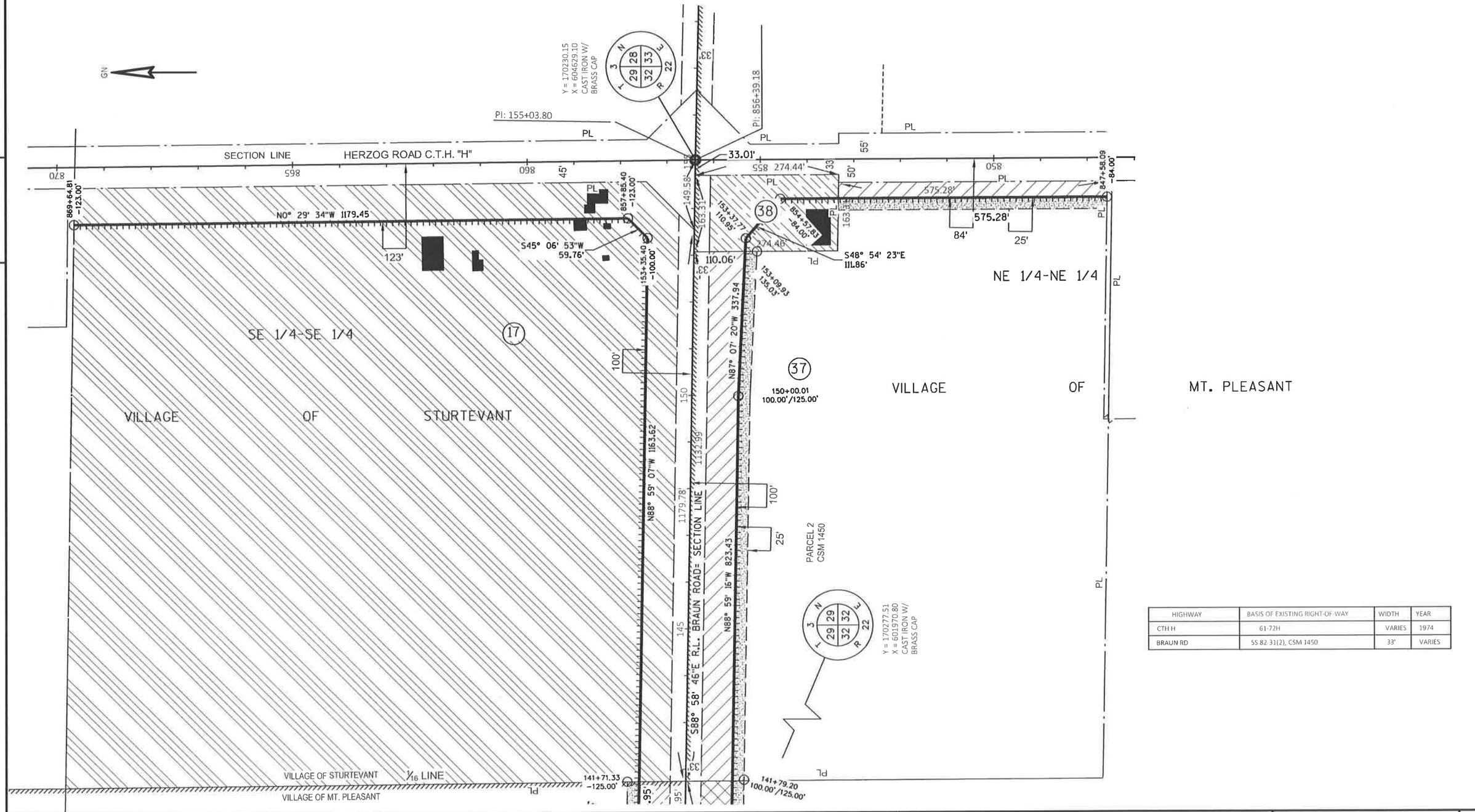
PS&E SHEET 404

E

FILE NAME : BRAUN DETAIL SHEETS.DWG
LAYOUT NAME - DETAIL 4 1 IN 200 FT

PLOT DATE : 2/14/2018 10:29 AM PLOT BY : BAIBA ROZITE PLOT NAME : PLOT SCALE : 1.0000 '/ IN

WISDOT/CADDS SHEET 75



HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
CTH H	61-72H	VARIES	1974
BRAUN RD	SS 82.31(2), CSM 1450	33'	VARIES

REVISION DATE			
12/19/2017			
1/05/2018			
2/13/2018			

DATE 9/05/2017

GRID FACTOR N/A

SCALE, FEET 0 100 200

HWY: BRAUN ROAD

COUNTY: RACINE

STATE R/W PROJECT NUMBER MP081717

CONSTRUCTION PROJECT NUMBER 2704-09-70

PLAT SHEET 4. 07

PS&E SHEET E

FILE NAME : BRAUN DETAIL SHEETS.DWG
LAYOUT NAME - DETAIL 5 1 IN 200 FT

PLOT DATE : 2/14/2018 10:29 AM PLOT BY : BAIBA ROZITE PLOT NAME : PLOT SCALE : ####.#### '/IN.

WISDOT/CADDS SHEET 75

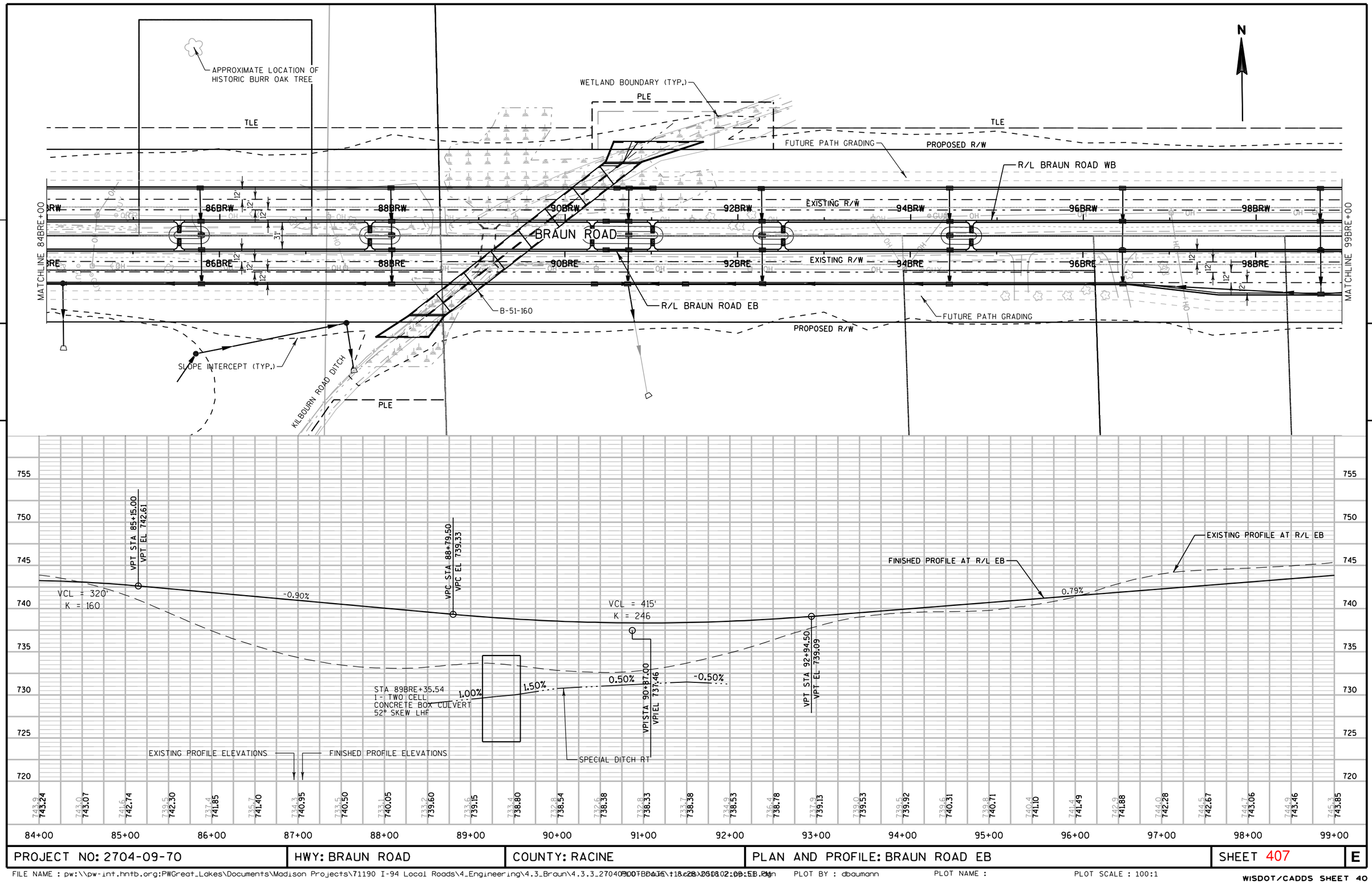
BEGIN CONSTRUCTION
STA 71BRW+75.05
X=596299.98
Y=170368.00

BEGIN PROJECT 2704-09-70
STA 71BRE+75.00
X=596298.89
Y=170320.01

WETLAND BOUNDARY (TYP.)
TLE
R/L BRAUN ROAD WB
R/L BRAUN ROAD EB
FUTURE PATH GRADING
PROPOSED R/W
EXISTING R/W
BRAUN ROAD
MATCHLINE 84BRE+00
SLOPE INTERCEPT (TYP.)

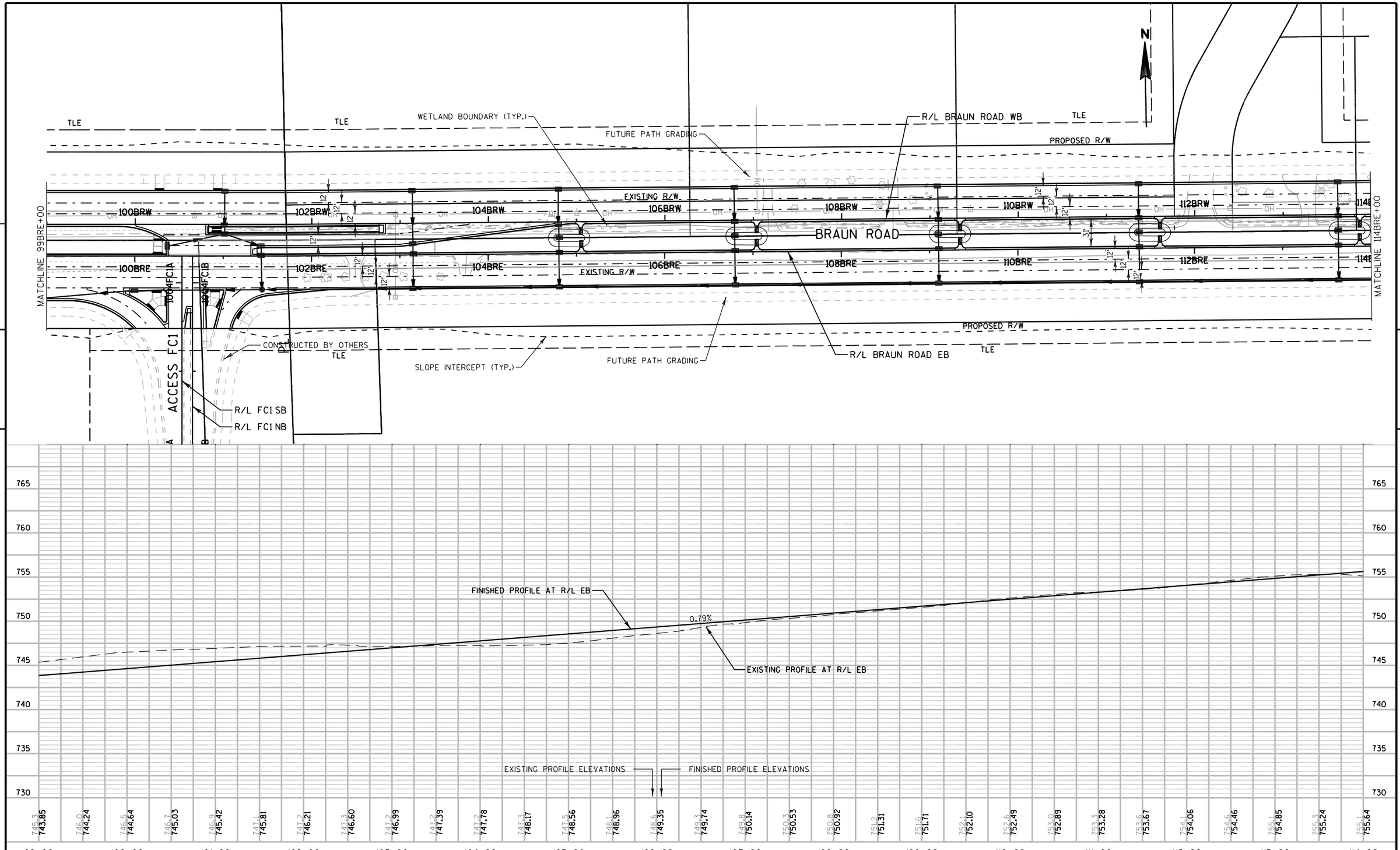
70BRW 72BRW 74BRW 76BRW 78BRW 80BRW 82BRW 84B
70BRE 72BRE 74BRE 76BRE 78BRE 80BRE 82BRE 84B

12" 12" 12"

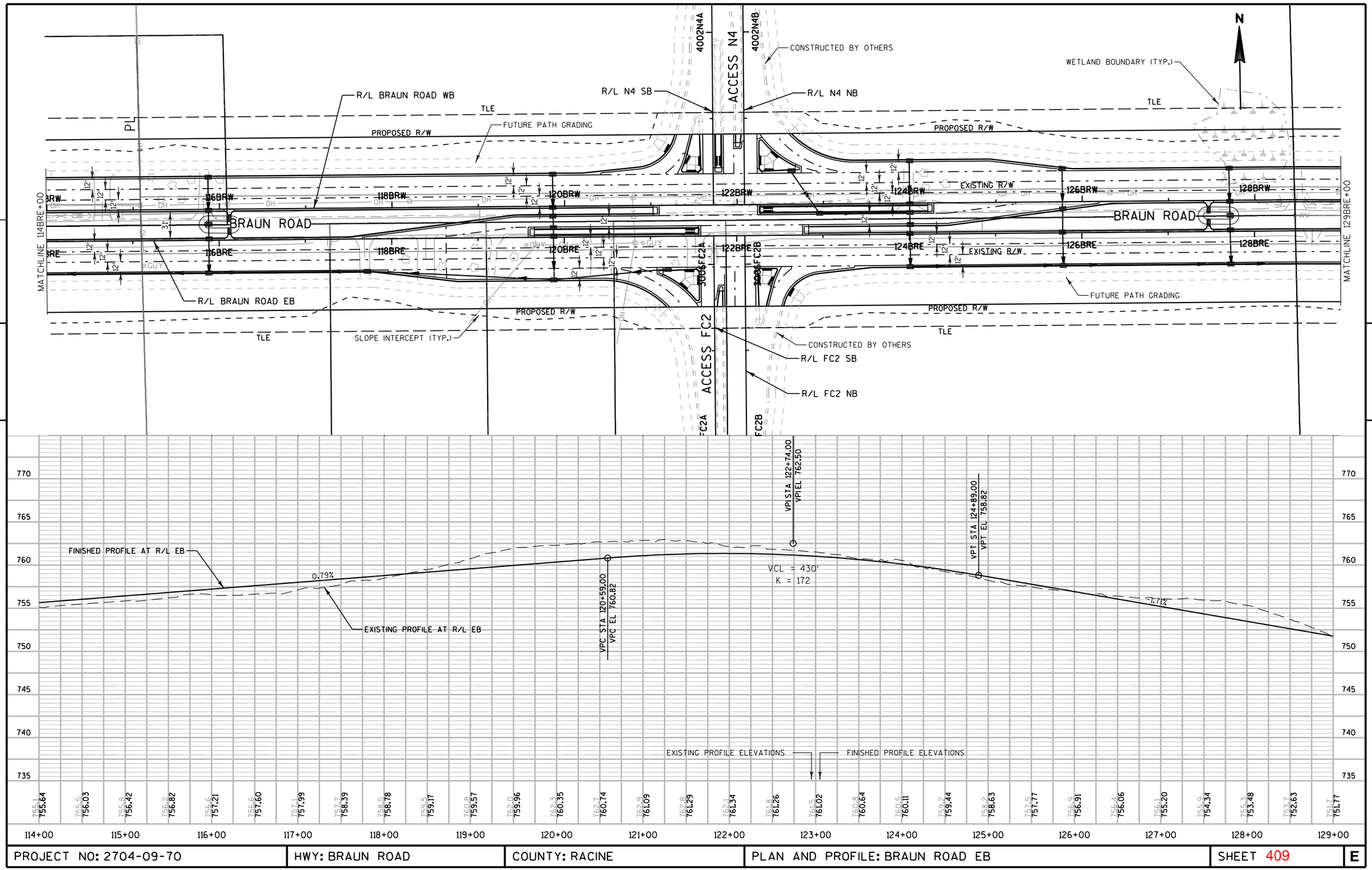


PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN AND PROFILE: BRAUN ROAD EB	SHEET 407	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBraun\18x28x2501202_09_EB.dgn
PLOT BY : dbaumann
PLOT NAME :
PLOT SCALE : 100:1
WISDOT/CADDS SHEET 40



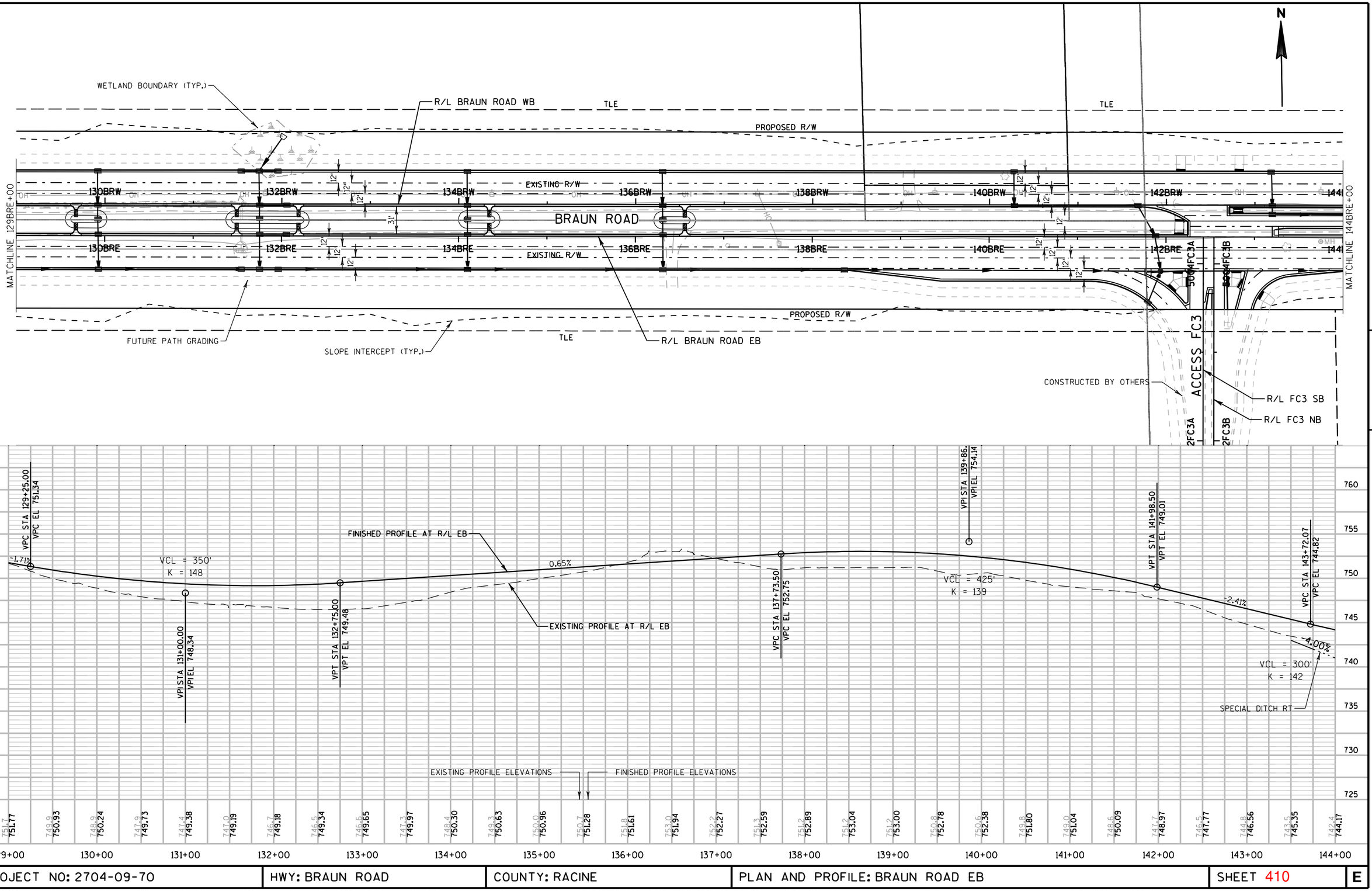
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN AND PROFILE: BRAUN ROAD EB	SHEET 408	E



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN AND PROFILE: BRAUN ROAD EB	SHEET 409	E

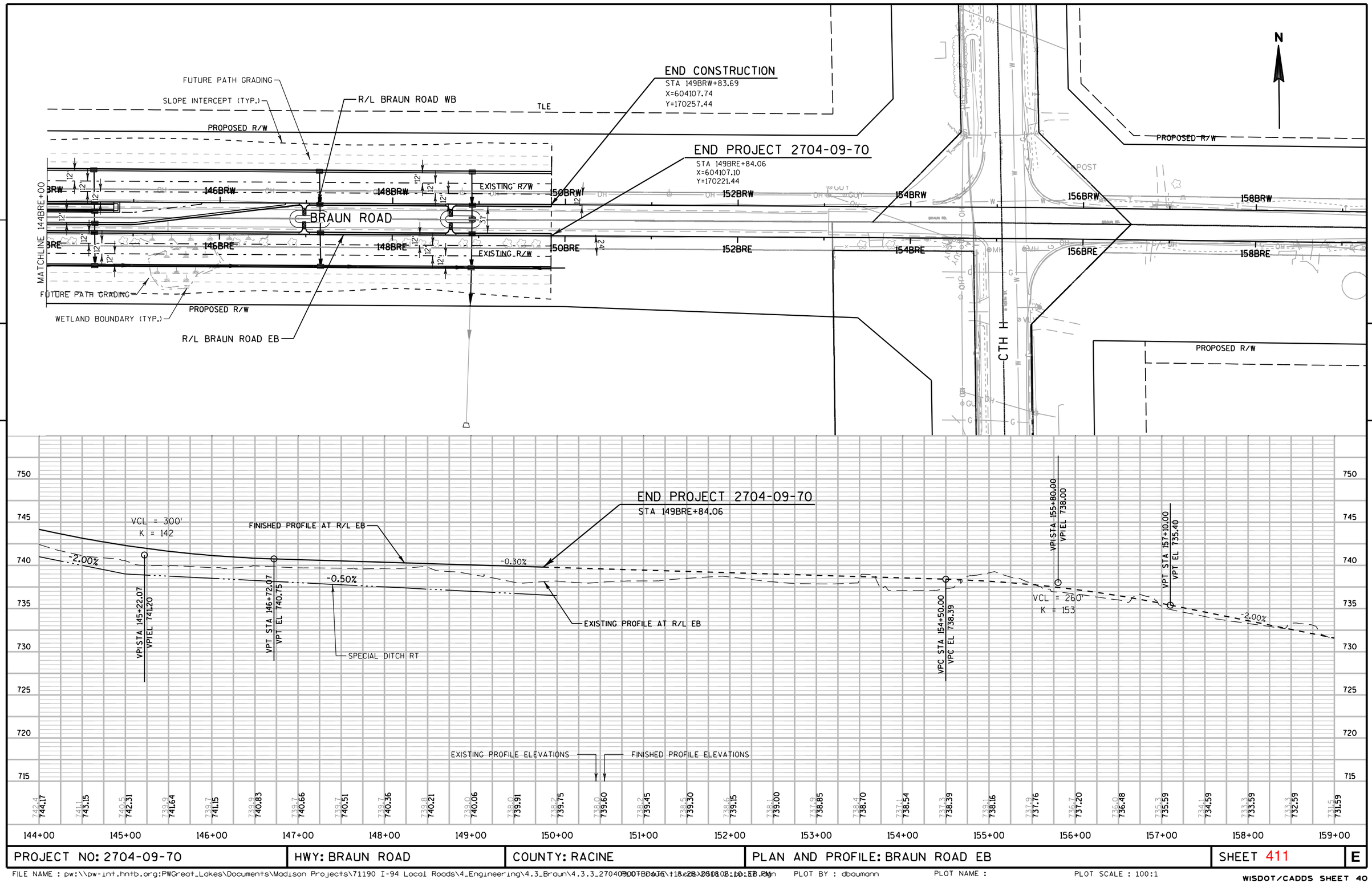
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040901FBraun\t18x28x2018-02-10-EB.dgn PLOT DATE : 18 x 28 x 2018-02-10 PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 40



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN AND PROFILE: BRAUN ROAD EB	SHEET 410	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD4E\18x28x2018-03-10 EB.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN AND PROFILE: BRAUN ROAD EB	SHEET 411	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD.dgn PLOT DATE : 18.28.25 03.10.21 PM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1
WISDOT/CADDS SHEET 40

BEGIN CONSTRUCTION
STA 71BRW+75.05
X=596299.98
Y=170368.00

BEGIN PROJECT 2704-09-70
STA 71BRE+75.00
X=596298.89
Y=170320.01

WETLAND BOUNDARY (TYP.)
TLE
R/L BRAUN ROAD WB
FUTURE PATH GRADING
PROPOSED R/W
EXISTING R/W
BRAUN ROAD
MATCHLINE 84BRE+00
R/L BRAUN ROAD EB
SLOPE INTERCEPT (TYP.)

70BRW 72BRW 74BRW 76BRW 78BRW 80BRW 82BRW
70BRE 72BRE 74BRE 76BRE 78BRE 80BRE 82BRE
12" 3'

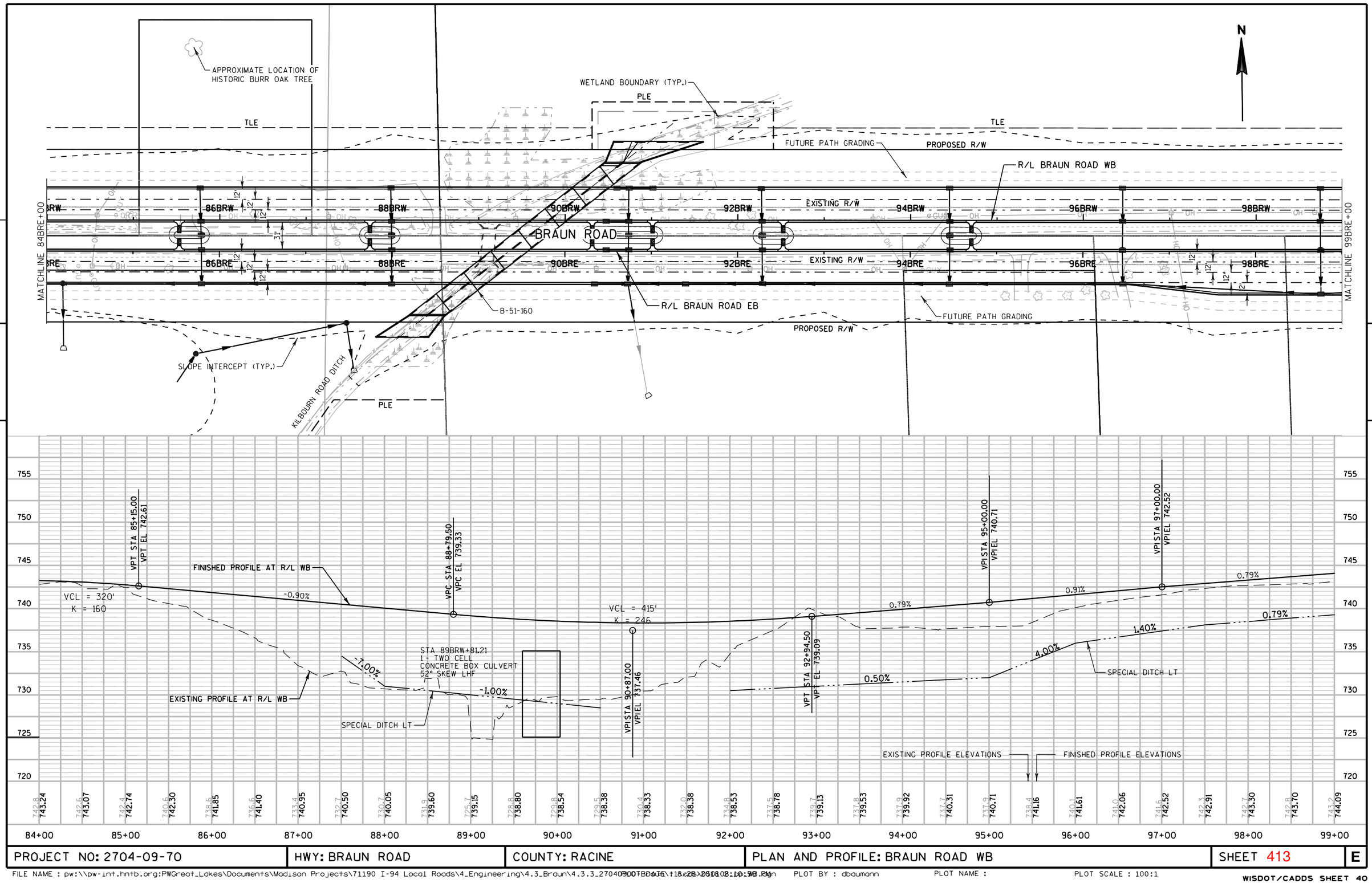
FINISHED PROFILE AT R/L WB
EXISTING PROFILE AT R/L WB
EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS
SPECIAL DITCH LT

VPI STA 71+00.00 VPI EL 744.26
VPT STA 71+75.00 VPT EL 743.85
VPC STA 70+25.00 VPC EL 743.85
VPC STA 78+55.00 VPC EL 740.11
VPI STA 79+50.00 VPI EL 739.59
VPT STA 80+85.00 VPT EL 740.84
VPC STA 81+95.00 VPC EL 742.29
VPI STA 83+55.00 VPI EL 744.06

0.55% VCL = 150' K = 136
-0.55%
VCL = 190' K = 115
-5.90%
5.90%
1.10%
VCL = 320' K = 160

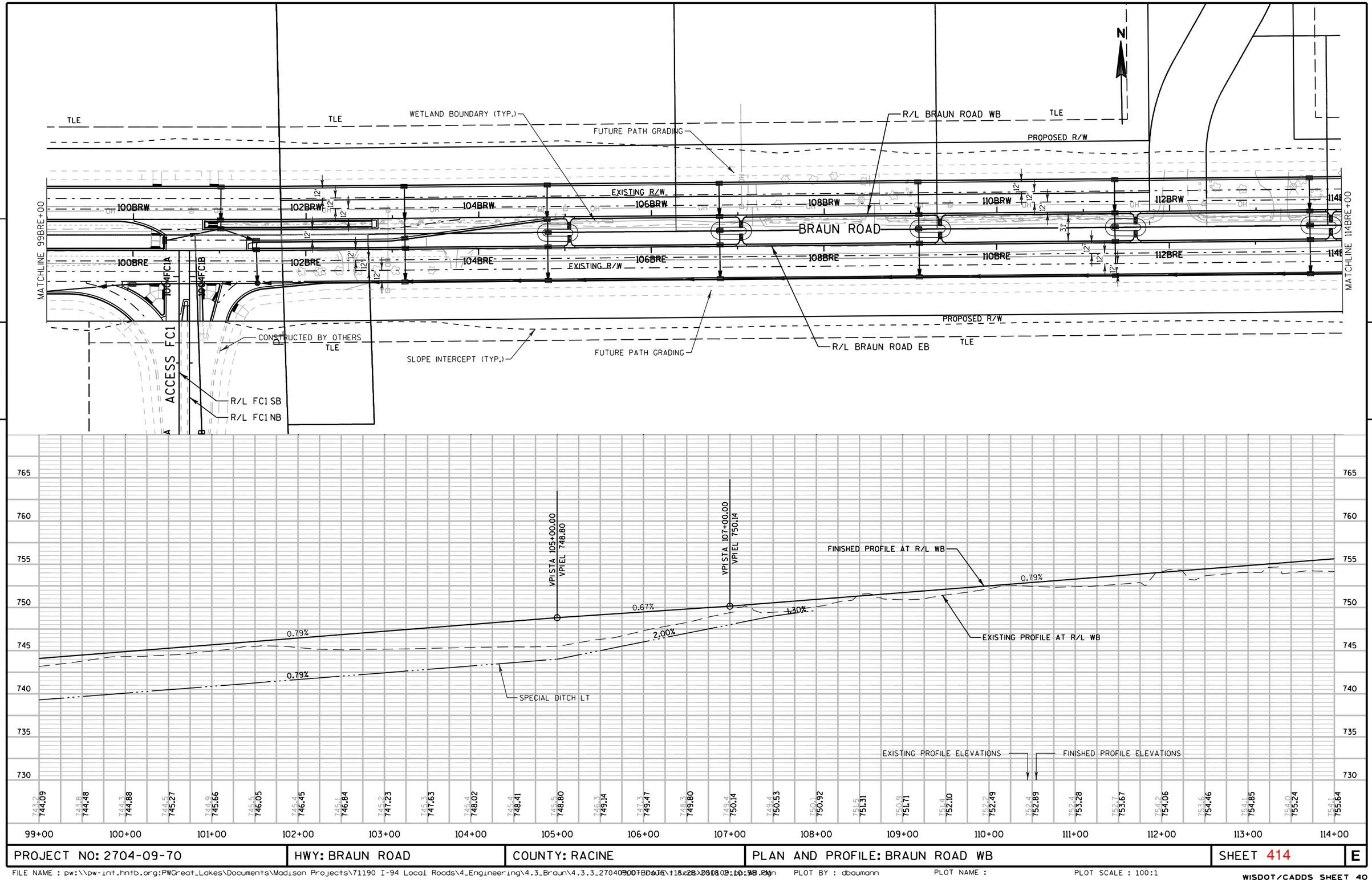
69+00	70+00	71+00	72+00	73+00	74+00	75+00	76+00	77+00	78+00	79+00	80+00	81+00	82+00	83+00	84+00
738.8	739.4	740.0	740.8	741.8	742.8	742.2	741.7	741.5	741.3	740.6	740.8	741.0	742.7	740.3	739.5
743.16	743.44	743.71	743.96	744.06	743.96	743.71	743.44	743.16	742.89	742.61	742.34	742.06	741.79	741.51	741.24
738.9	738.7	737.5	737.1	736.7	735.7	736.4	737.5	738.7	739.8	740.9	740.7	740.7	741.7	742.5	742.8
740.96	740.69	740.41	740.14	739.95	739.98	740.23	740.69	741.24	741.79	742.34	742.80	743.10	743.25	743.24	

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN AND PROFILE: BRAUN ROAD WB	SHEET 412	E

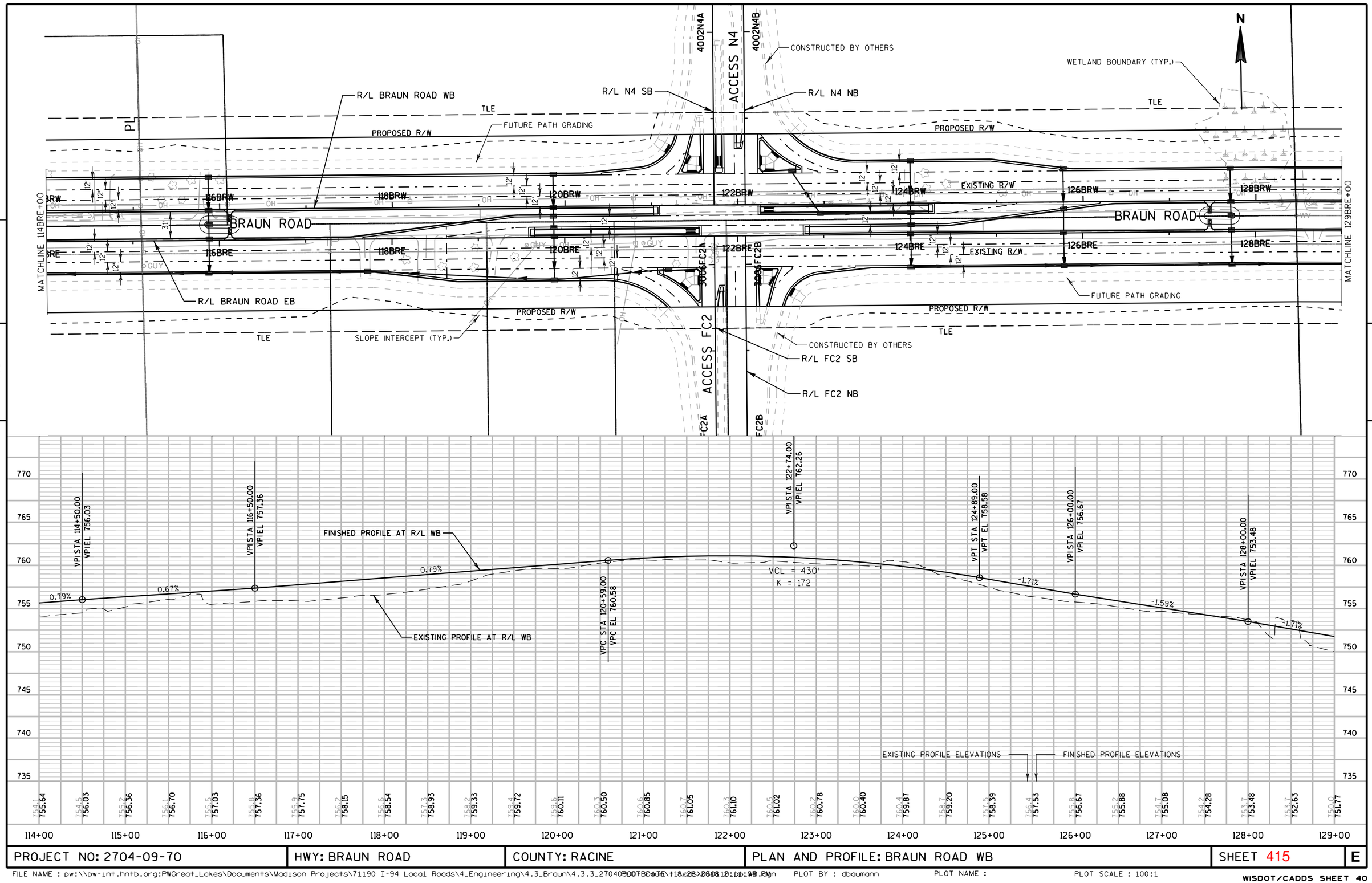


PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN AND PROFILE: BRAUN ROAD WB	SHEET 413	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBraun\18x28x2503203_10_WB.dgn
PLOT BY : dbaumann
PLOT NAME :
PLOT SCALE : 100:1
WISDOT/CADDS SHEET 40

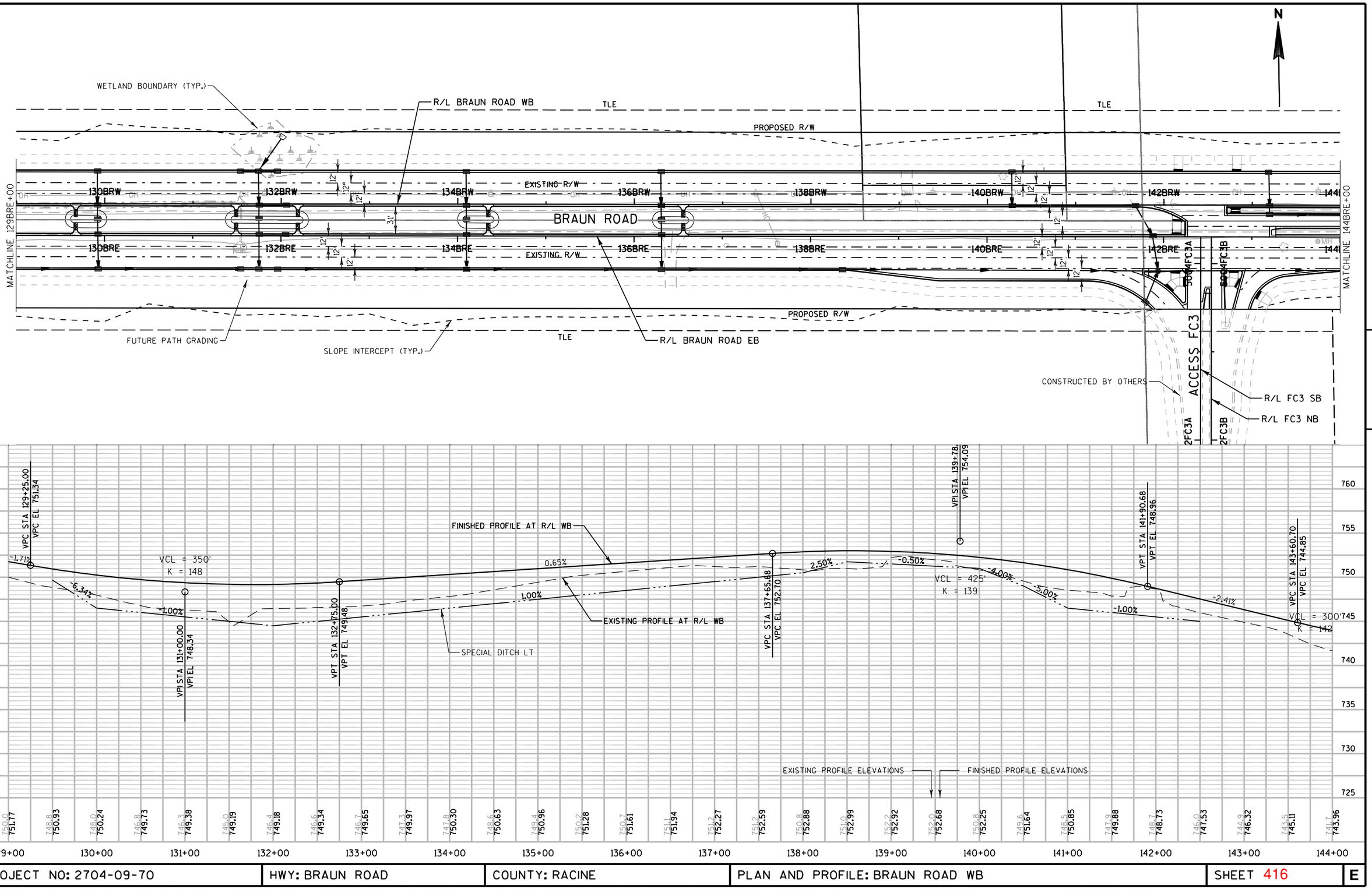


PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN AND PROFILE: BRAUN ROAD WB	SHEET 414	E



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN AND PROFILE: BRAUN ROAD WB	SHEET 415	E

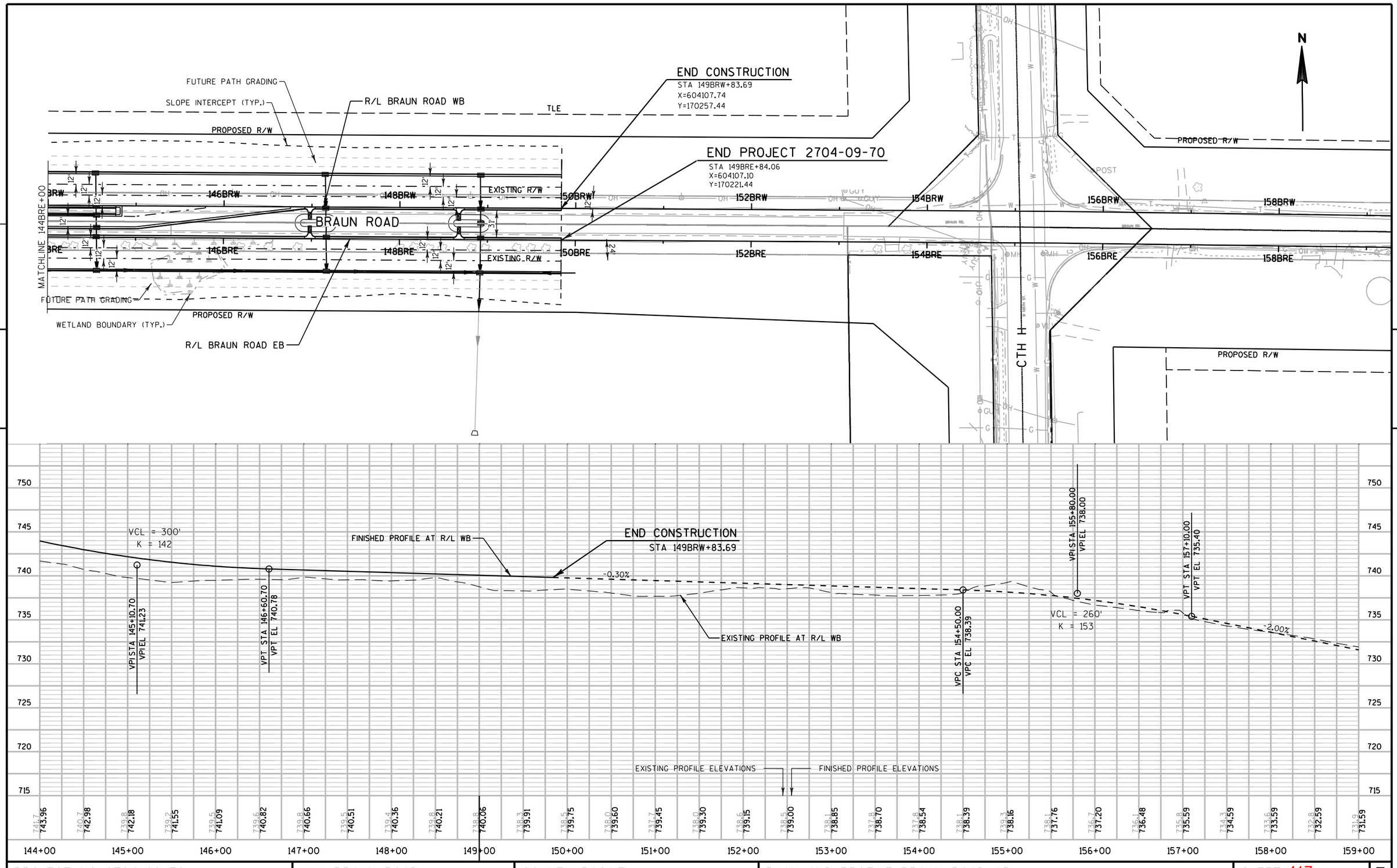
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040970BRAUN\t18x28x2503121bb1WB.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1
WISDOT/CADDS SHEET 40



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN AND PROFILE: BRAUN ROAD WB	SHEET 416	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD4.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

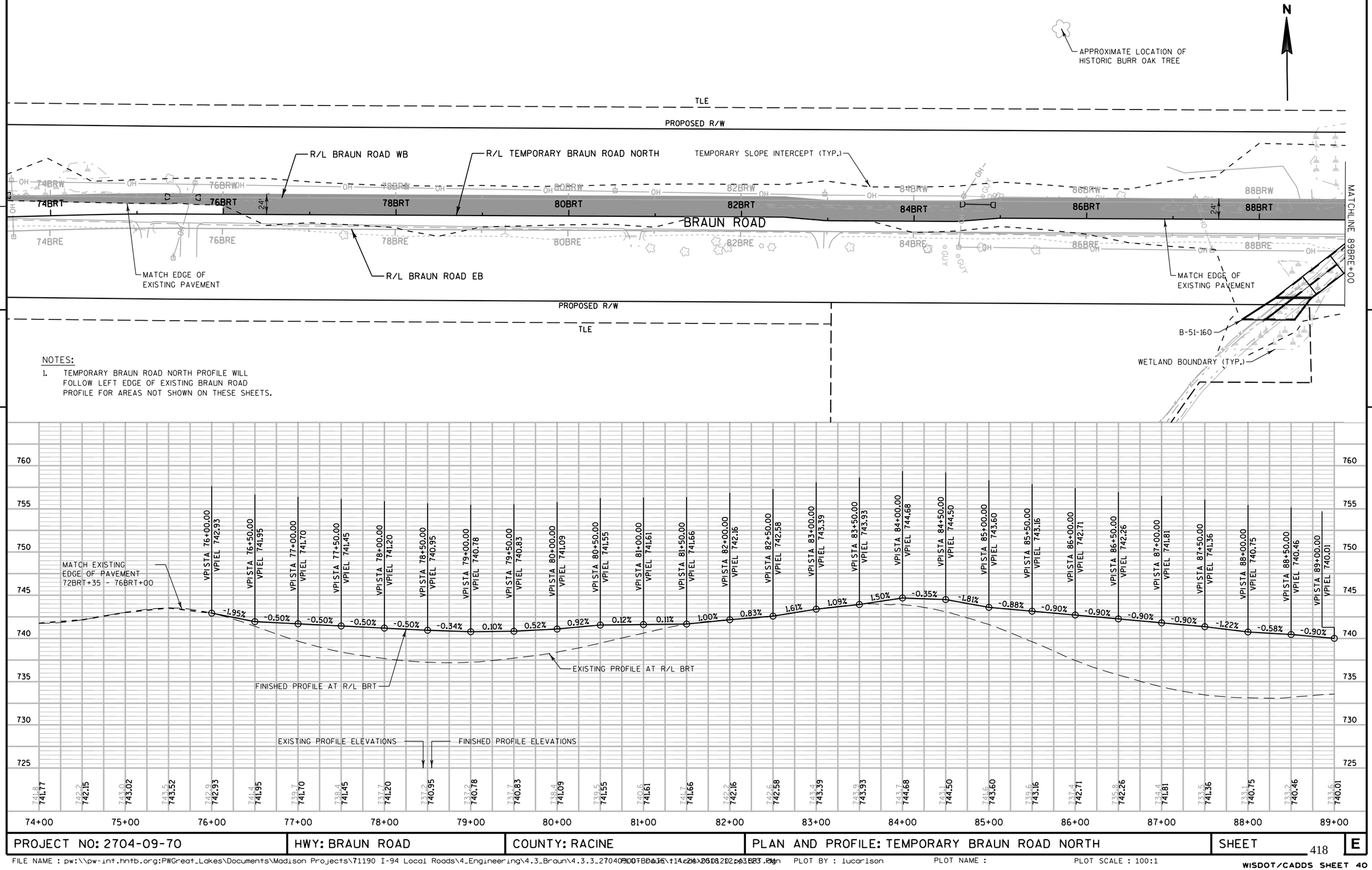
WISDOT/CADDS SHEET 40



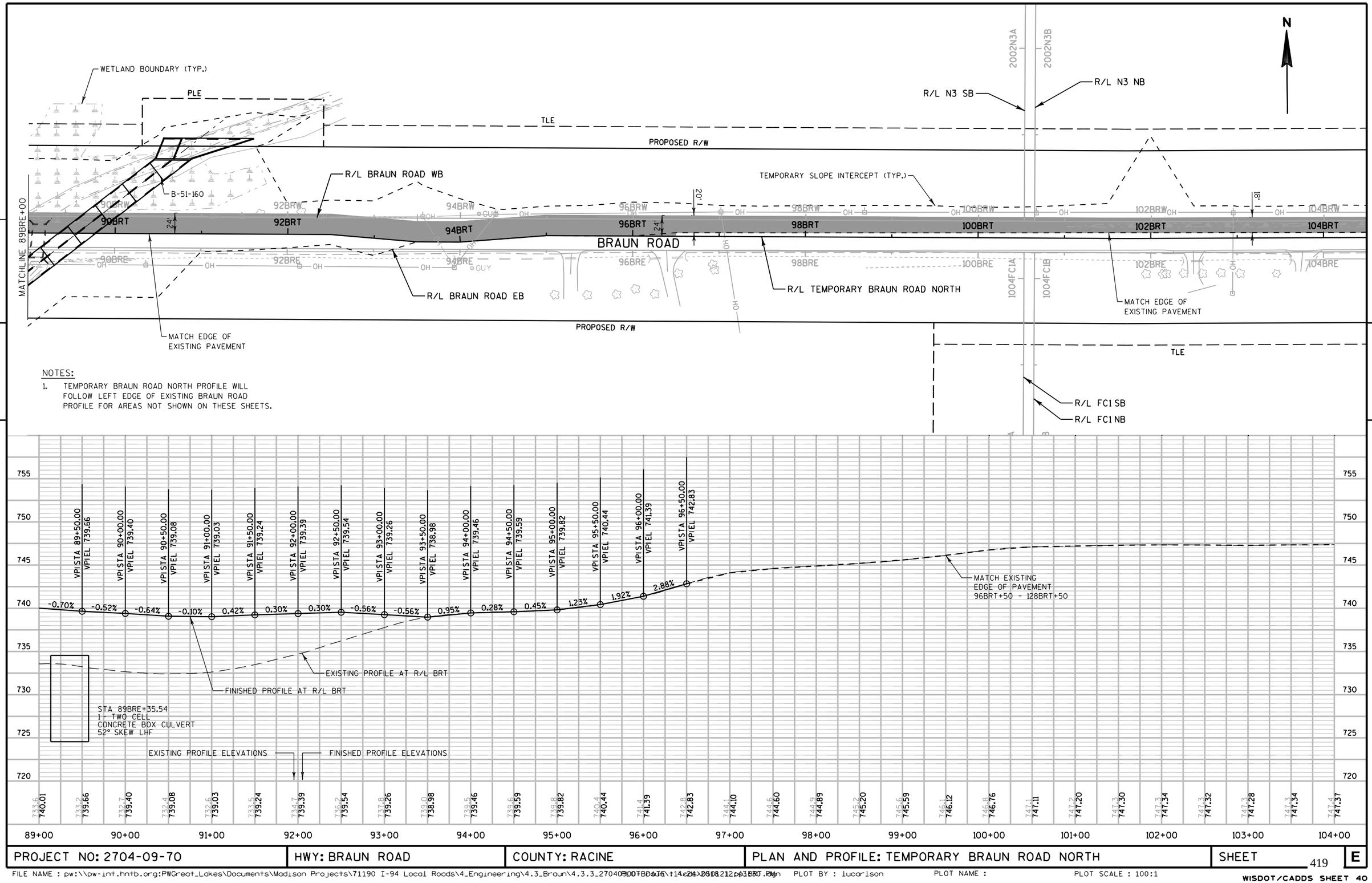
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN AND PROFILE: BRAUN ROAD WB	SHEET 417	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090\BRAUN\18x28x2503121_BRWB.dgn PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 40



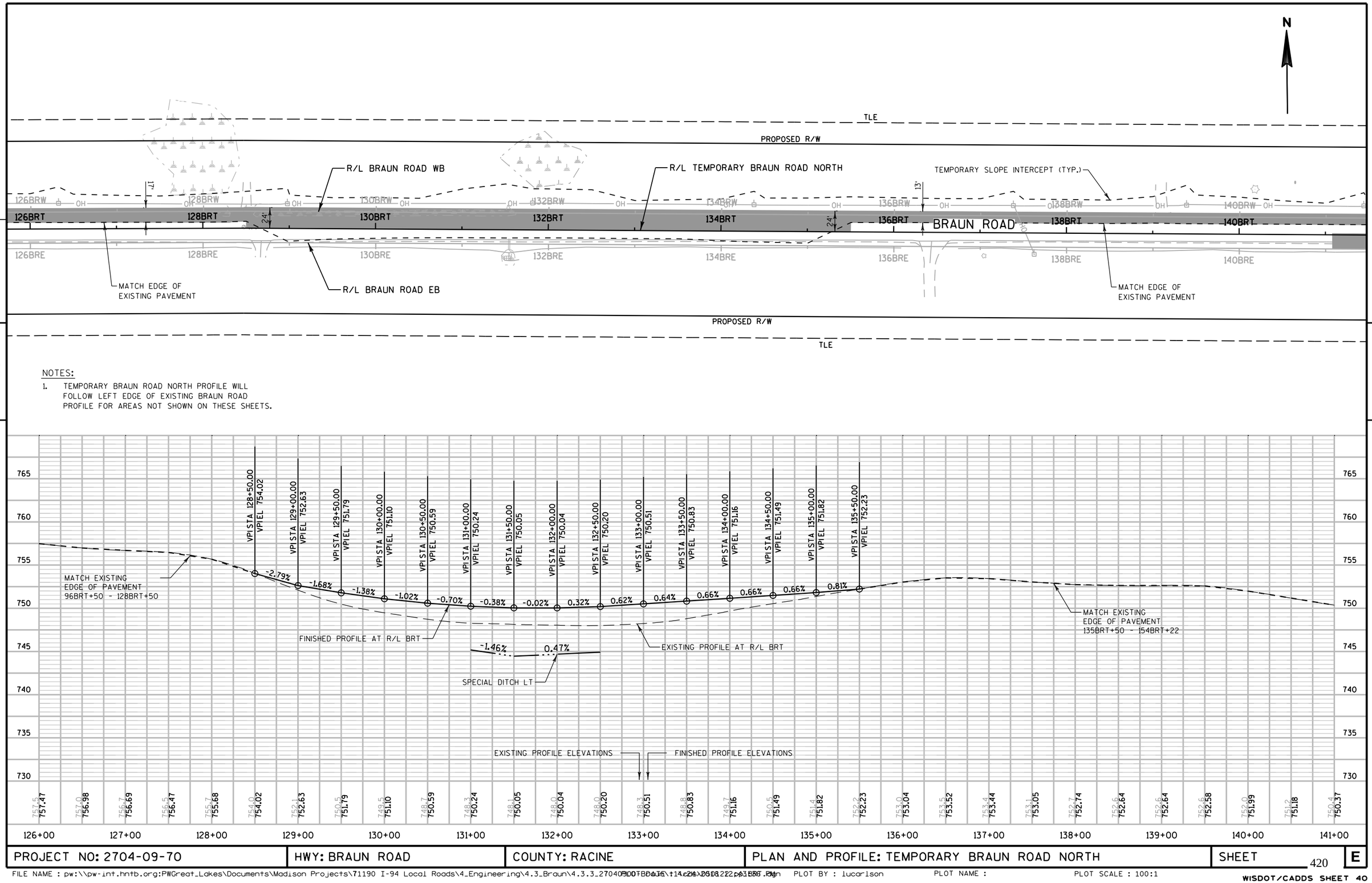
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN AND PROFILE: TEMPORARY BRAUN ROAD NORTH	SHEET 418 E



NOTES:

1. TEMPORARY BRAUN ROAD NORTH PROFILE WILL FOLLOW LEFT EDGE OF EXISTING BRAUN ROAD PROFILE FOR AREAS NOT SHOWN ON THESE SHEETS.

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN AND PROFILE: TEMPORARY BRAUN ROAD NORTH	SHEET 419	E



5

5

NOTES:

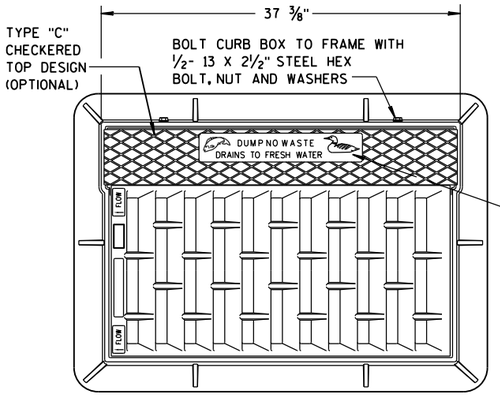
1. TEMPORARY BRAUN ROAD NORTH PROFILE WILL FOLLOW LEFT EDGE OF EXISTING BRAUN ROAD PROFILE FOR AREAS NOT SHOWN ON THESE SHEETS.

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	PLAN AND PROFILE: TEMPORARY BRAUN ROAD NORTH	SHEET 420	E

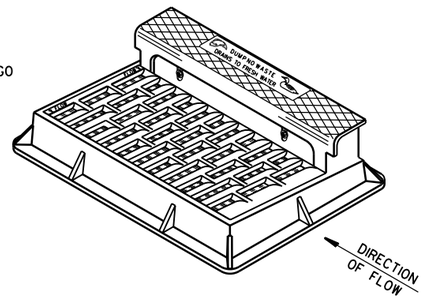
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-19A	CURB RAMPS TYPES 1 AND 1-A
08D05-19B	CURB RAMPS TYPES 2 AND 3
08D05-19C	CURB RAMPS TYPES 4A AND 4A1
08D05-19D	CURB RAMPS TYPE 4B AND 4B1
08D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-19F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-19G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E11-02	TURBIDITY BARRIER
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C12-09A	CONCRETE BASE TYPE 13
09C12-09B	CONCRETE BASE TYPE 13
09C13-02	CONCRETE BASE TYPE 10 & TYPE 13 EXTENSION
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-03	SIGNAL CONTROL CABINET
09E01-14B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)
09E01-14D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
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
09E08-08C	TYPE 12 POLE 35'-55' MONOTUBE ARM
09E08-08E	GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS
09E12-01E	GENERAL NOTES AND HARDWARE DETAILS FOR OVER HEIGHT TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS
09F15-04A	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
09H09-02	COMMUNICATION VAULT TYPE 1
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
13C18-05A	CONCRETE PAVEMENT JOINTING
13C18-05B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-05C	CONCRETE PAVEMENT JOINT TYPES
13C18-05D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C08-18B	PAVEMENT MARKING (TURN LANES)
15C18-04	MEDIAN ISLAND MARKING
15C27-02A	DOUBLE ARROW WARNING SIGN PLACEMENT
15C27-02B	PAVEMENT MARKING (ISLANDS)
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D06-03	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

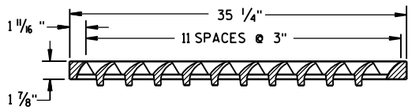
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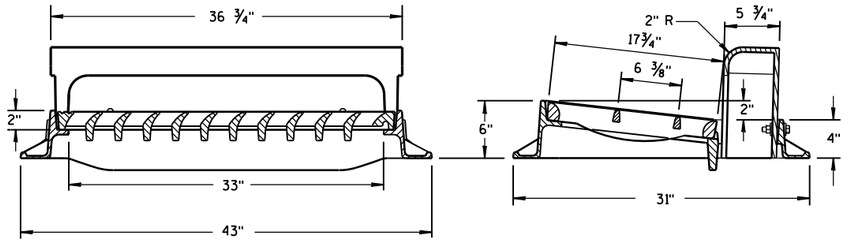


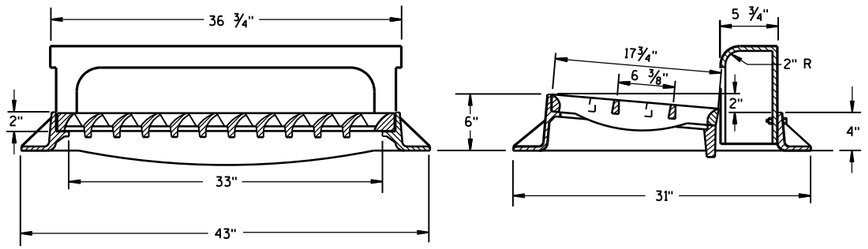
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

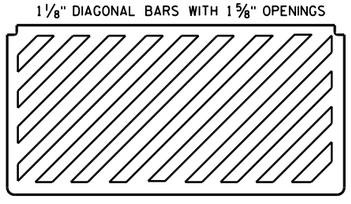






TYPE "H"

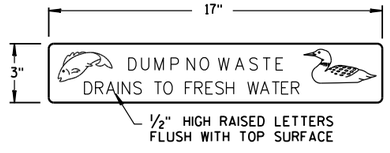
NOTE: EITHER CASTING IS ACCEPTABLE



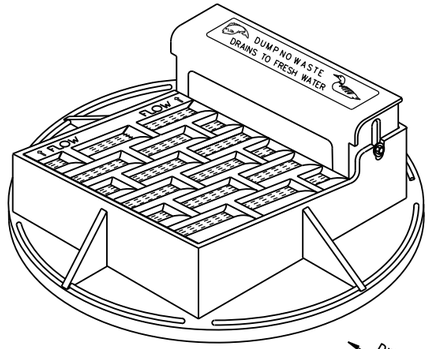
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

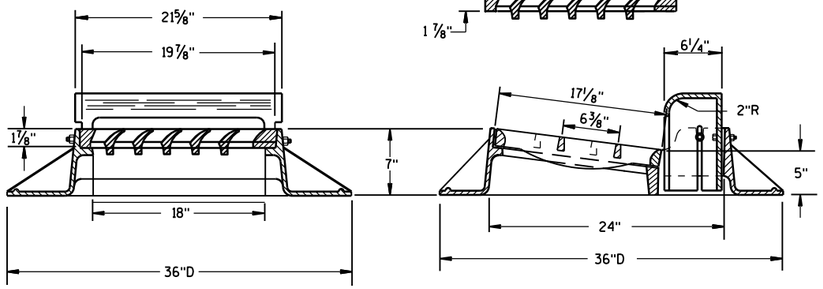


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



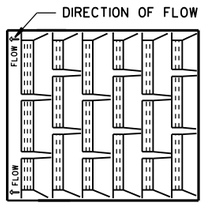
TYPE "A"

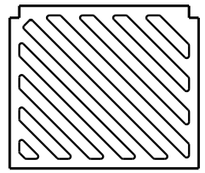
GENERAL NOTES

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.

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.

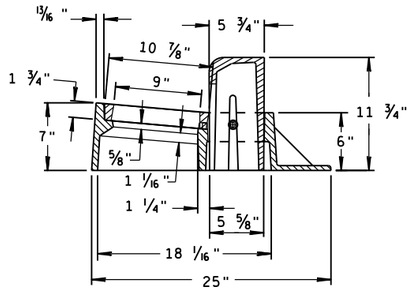


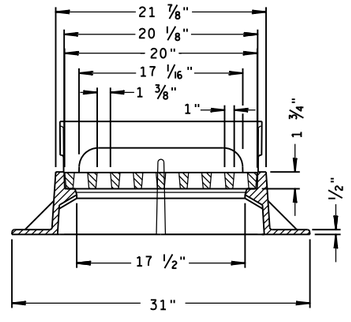


SPECIAL GRATE FOR TYPE "A" COVER

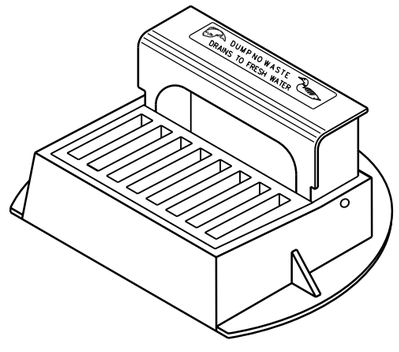
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"



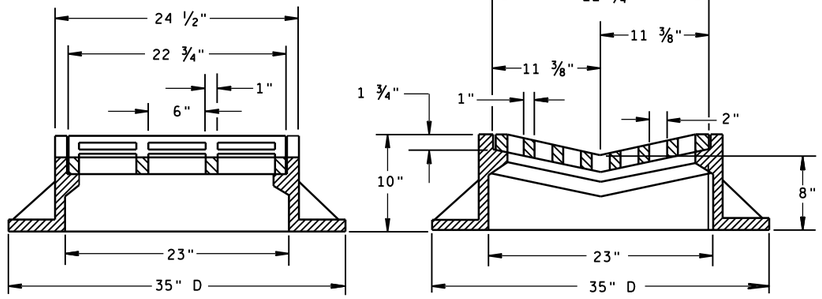
INLET COVERS TYPE A, H, A-S, H-S & Z

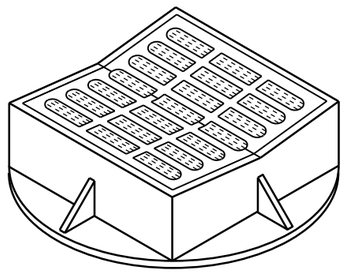
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

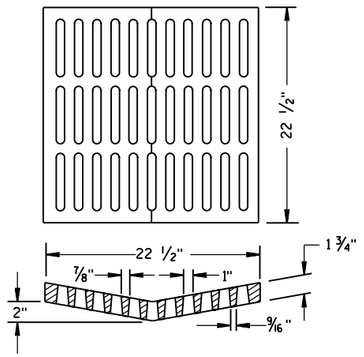
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S.D.D. 8 A 5-19a



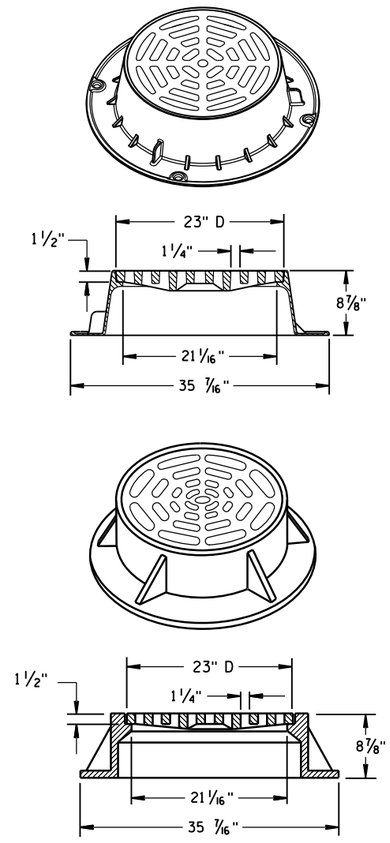


TYPE "B"



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"

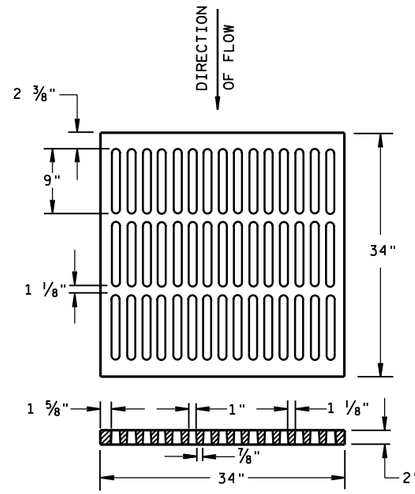
NOTE: EITHER CASTING IS ACCEPTABLE

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.

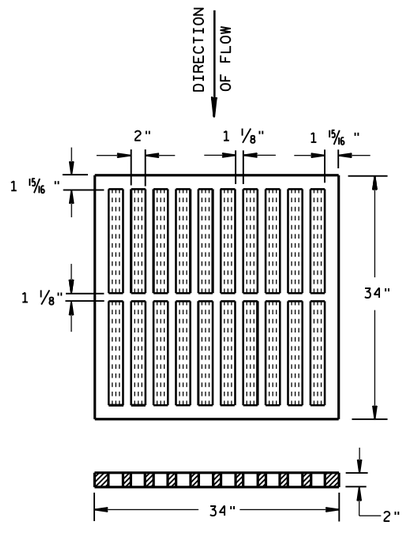
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



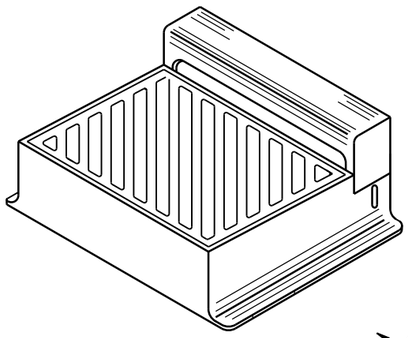
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

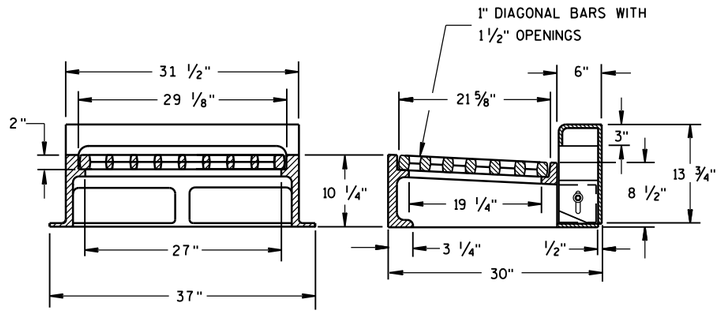


TYPE "MS"

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"

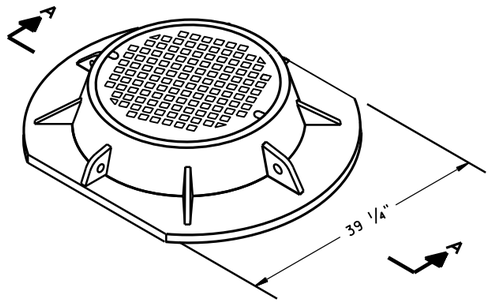
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

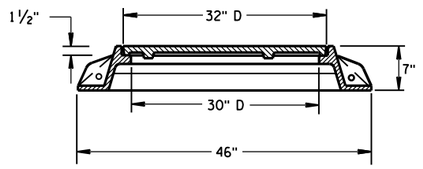
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

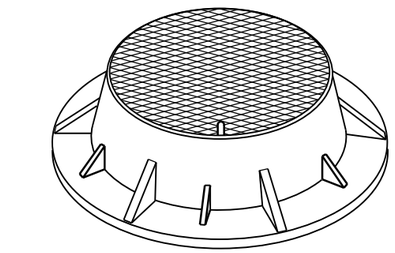
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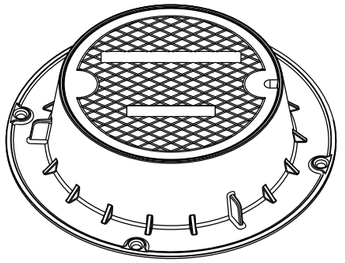
S.D.D. 8 A 5-19b

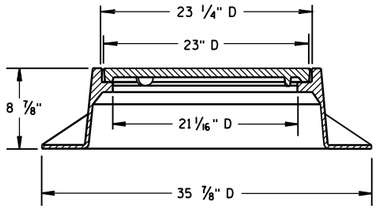


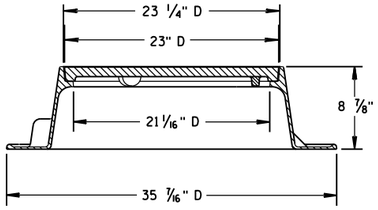


SECTION A-A
TYPE "K"









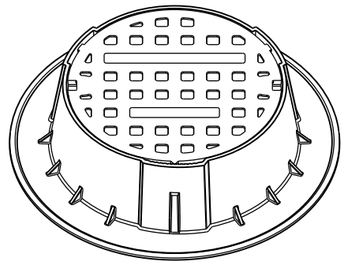
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

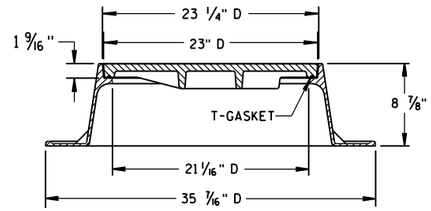
GENERAL NOTES

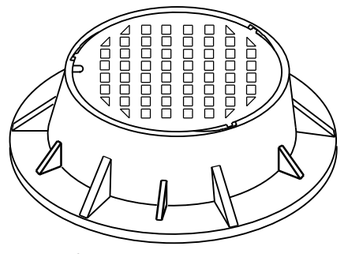
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

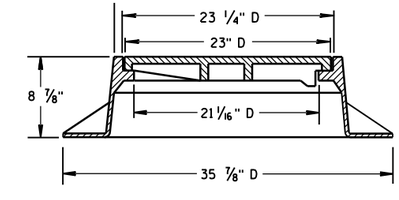
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

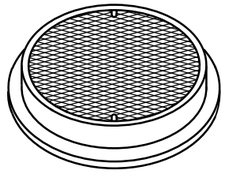


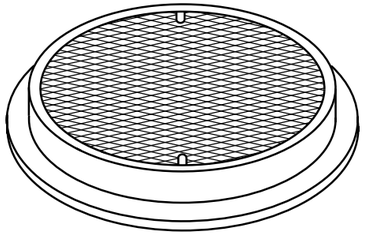


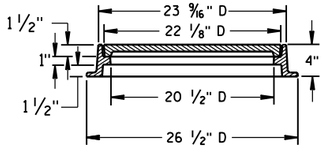




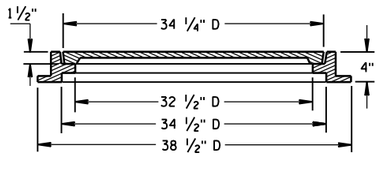
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



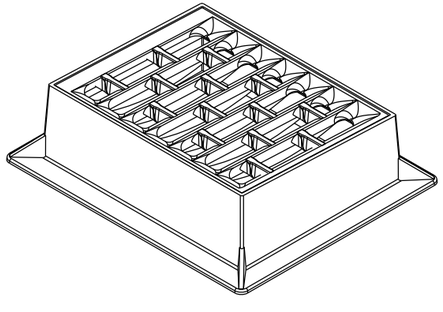


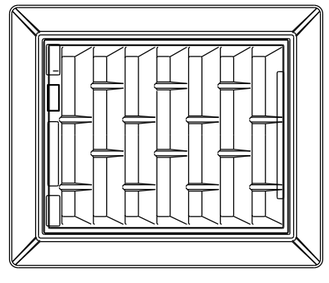


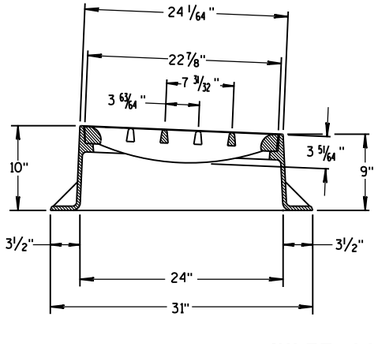
TYPE "L"

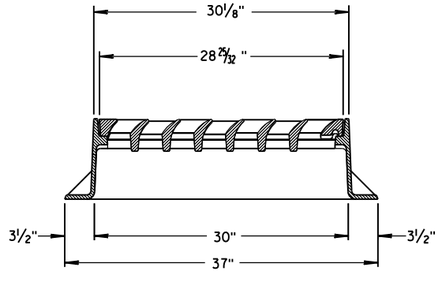


TYPE "M"









INLET COVER TYPE "BW"

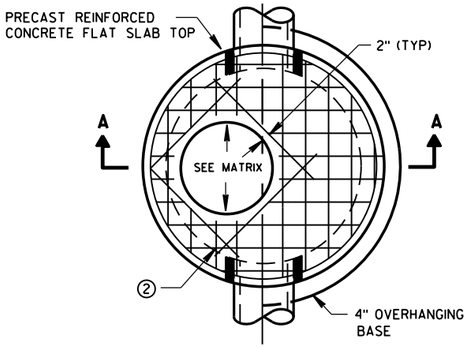
INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

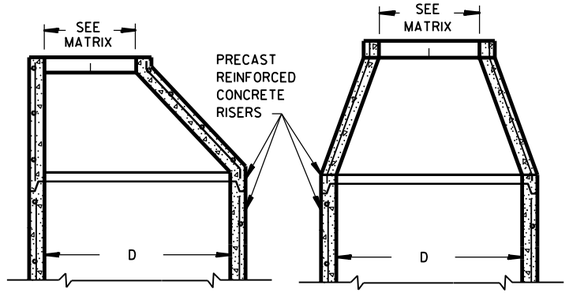
APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 A 5-19d

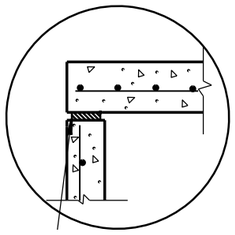


PLAN VIEW CIRCULAR OPENING

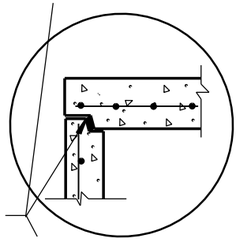


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

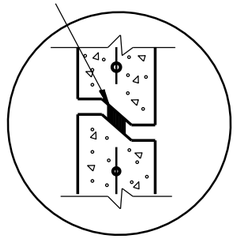


TOP WITH PLAIN END JOINT



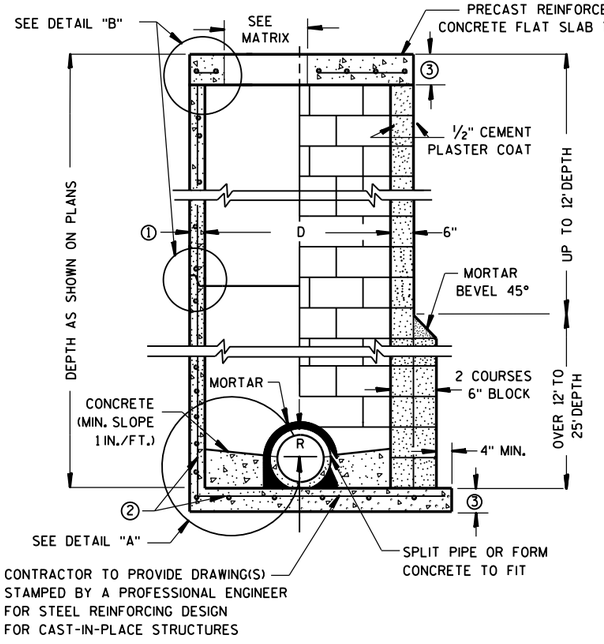
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



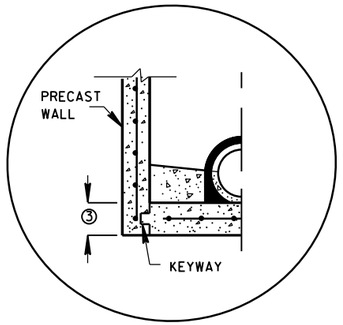
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

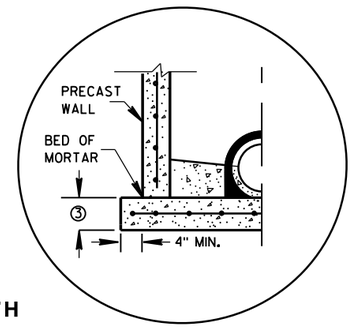


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

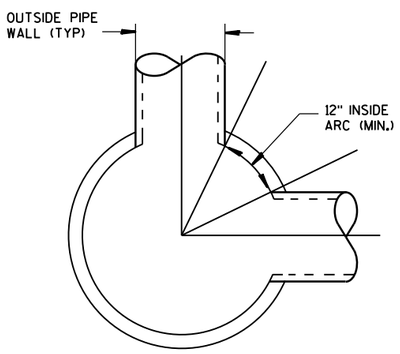


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



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 FOUNDATION 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.

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

Sept., 2016
DATE

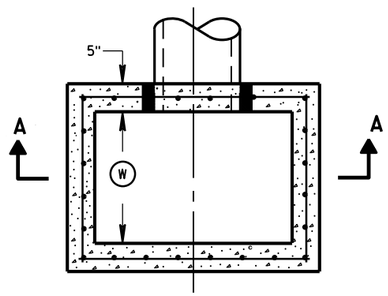
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

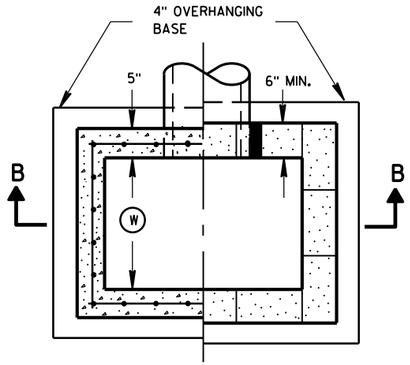
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

S.D.D. 8 B 9-2

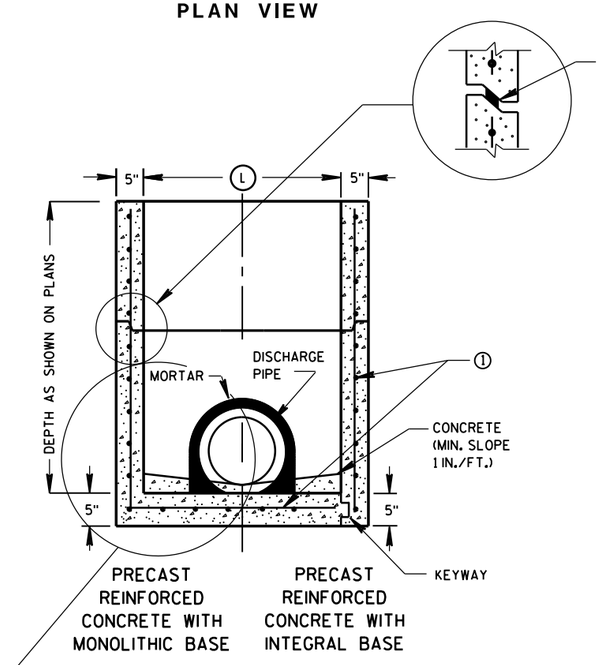
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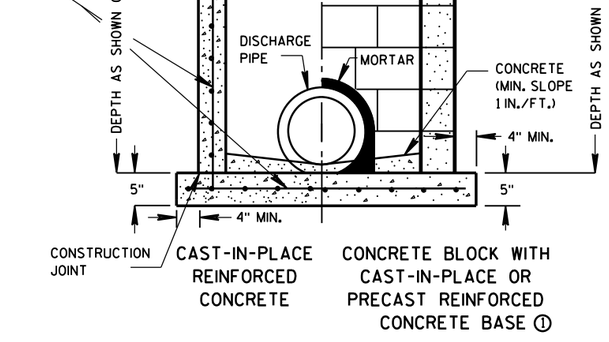
PLAN VIEW



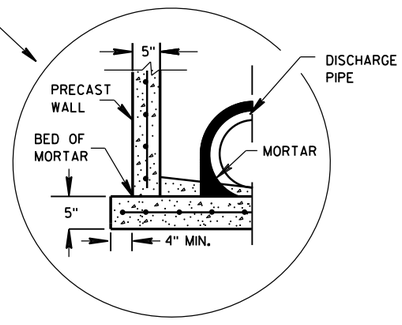
PLAN VIEW



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 FOUNDATION 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.

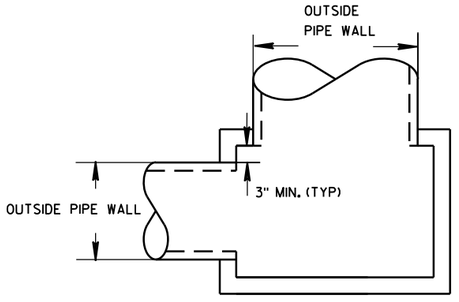
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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



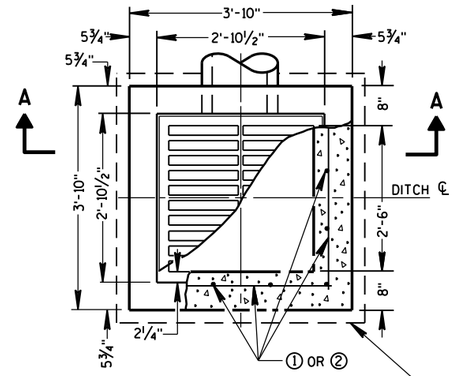
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

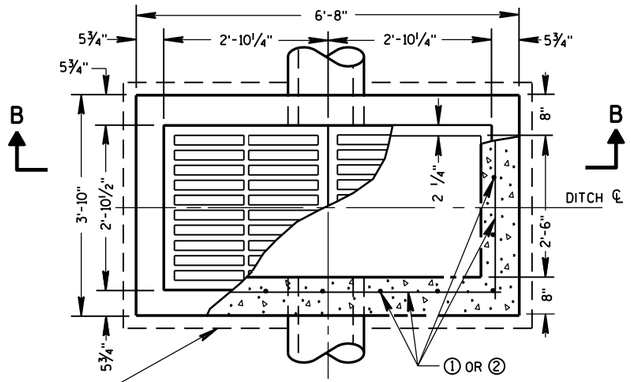
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT
UNIT SUPERVIS
FHWA

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S.D.D. 8 C 7-2

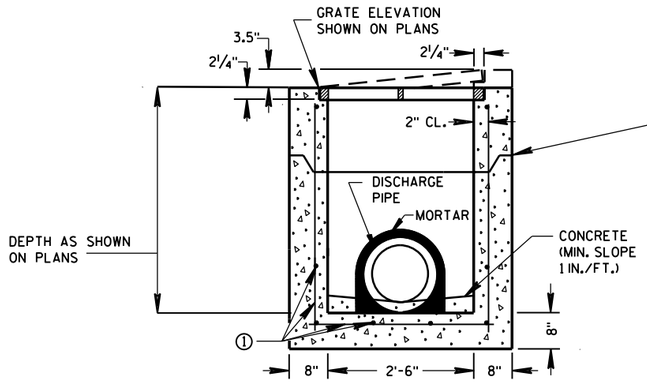


PLAN VIEW

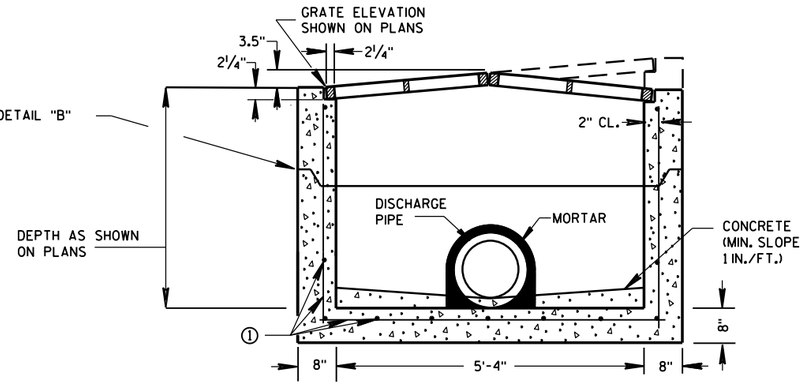


PLAN VIEW

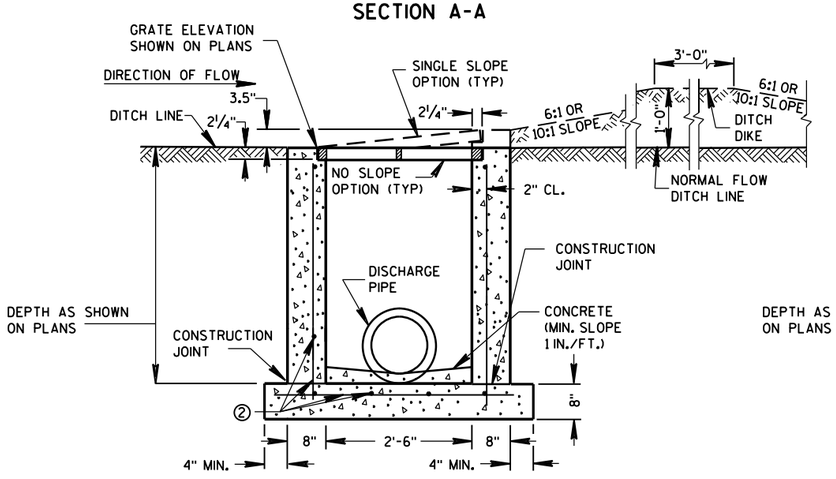
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



PRECAST REINFORCED CONCRETE SECTION A-A

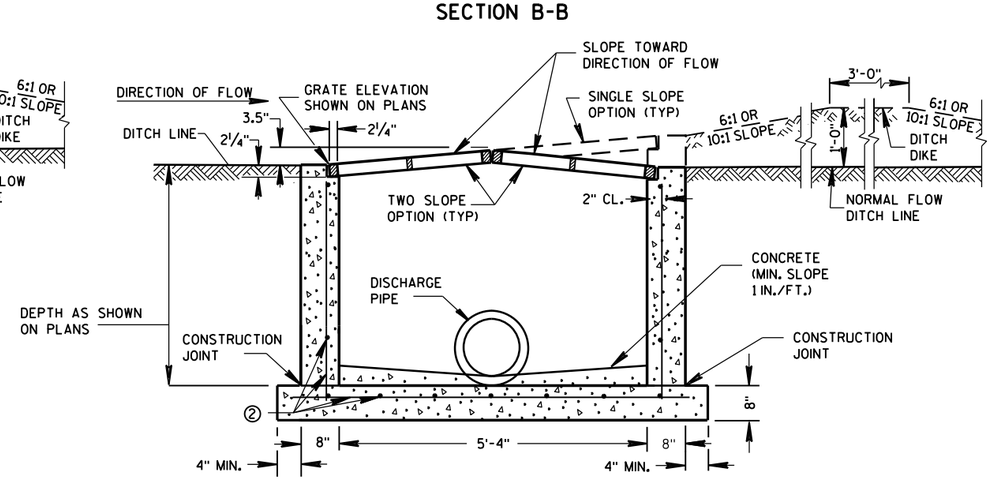


PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A

INLETS MEDIAN 1 GRATE



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 2 GRATE

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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 INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE 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 FOUNDATION 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.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

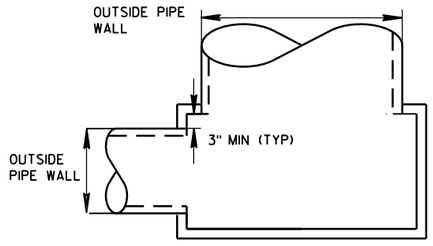
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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.

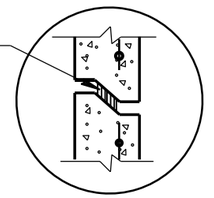
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

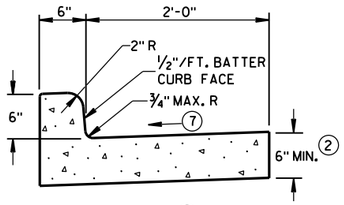
APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI ENT
FHWA

6

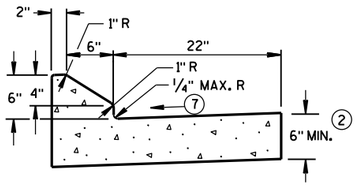
S.D.D. 8 C 8-2

6

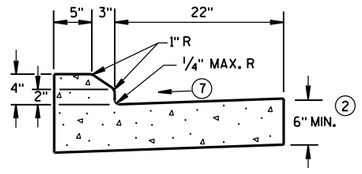
S.D.D. 8 C 8-2



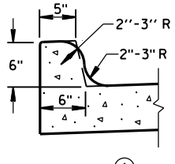
TYPES A (1) & D



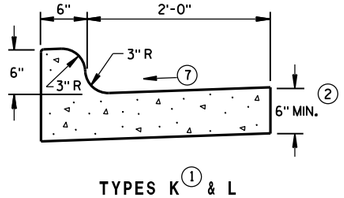
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

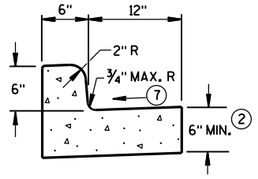


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



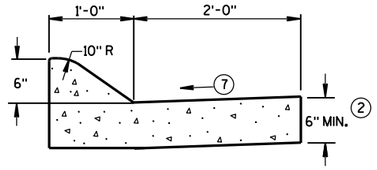
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

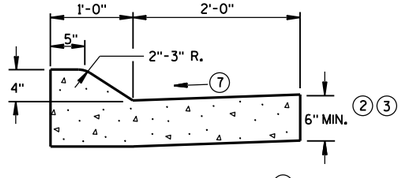


TYPES A (1) & D

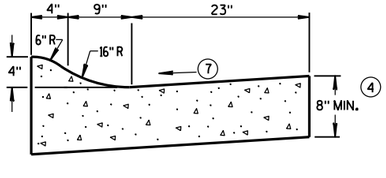
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

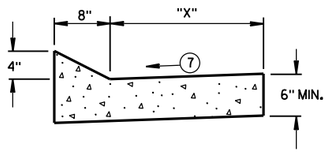


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

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.

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.

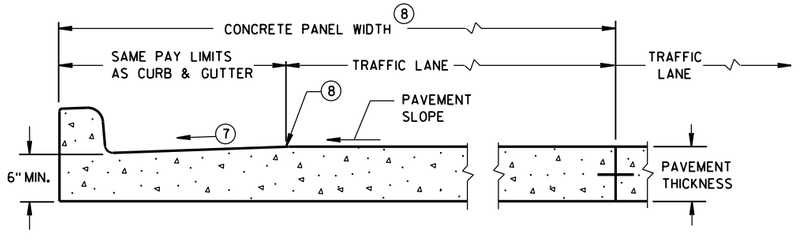
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

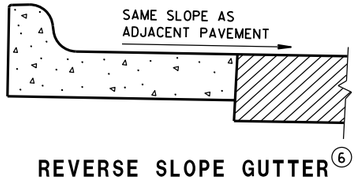
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER

* BIKE LANE IS NOT SHOWN.

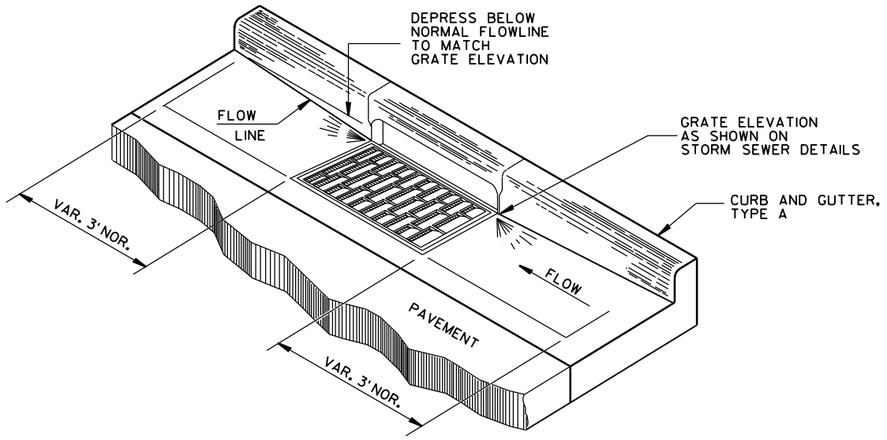


REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 8 D 1-20a



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

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

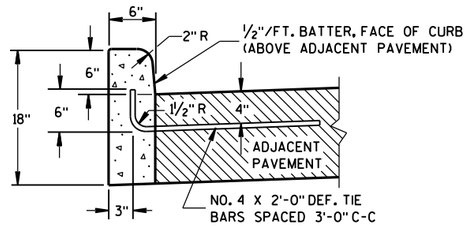
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

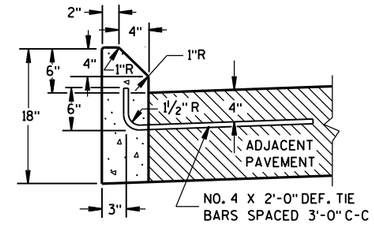
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(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.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

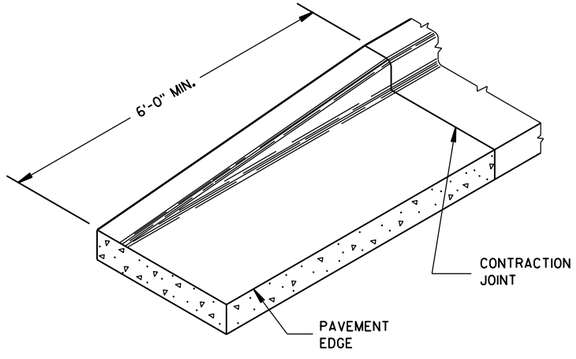


TYPES A (1) & D

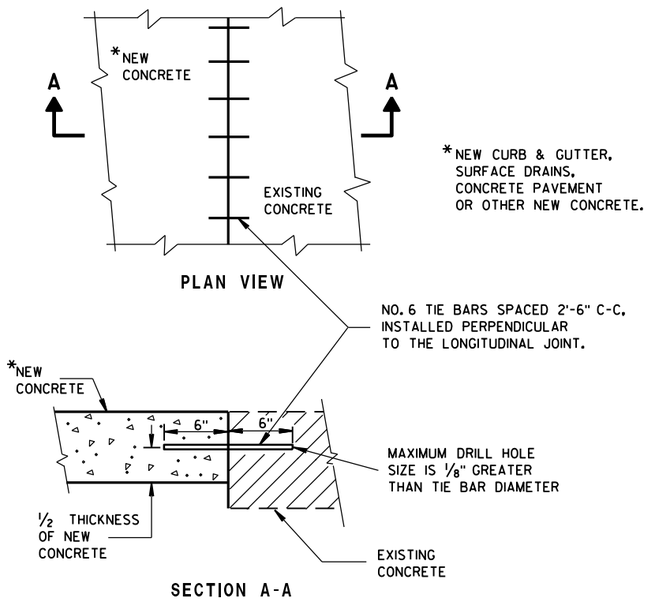


TYPES G (1) & J

CONCRETE CURB



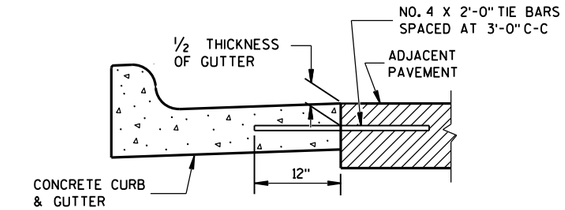
END SECTION CURB & GUTTER



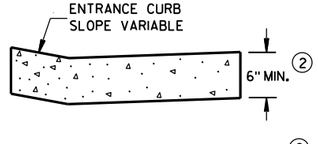
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

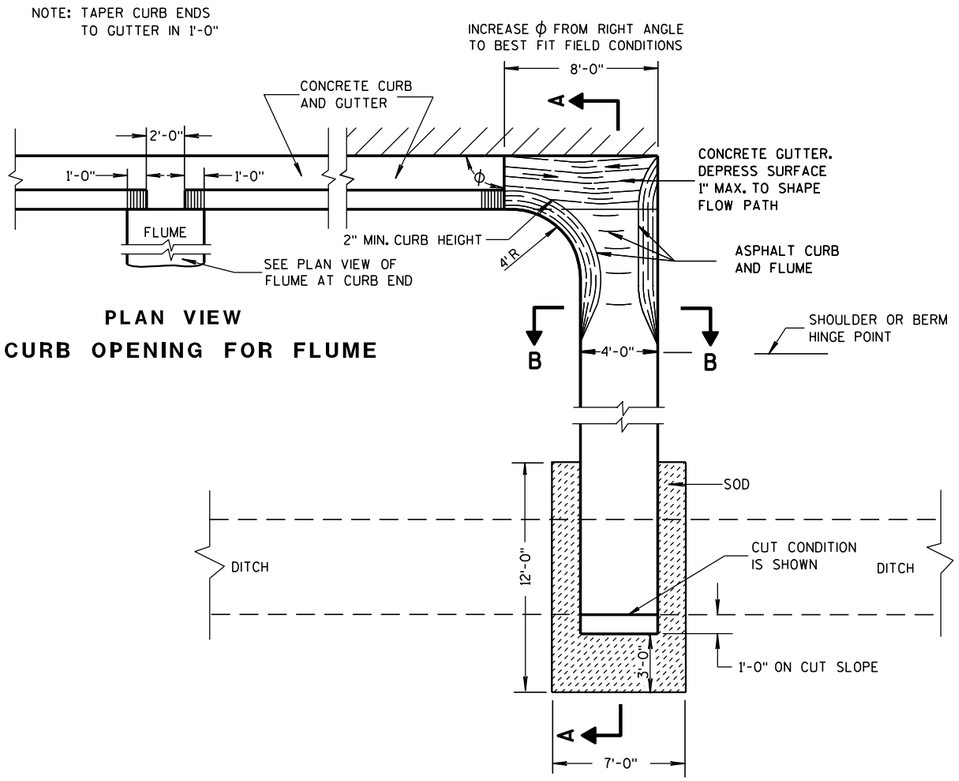
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

6

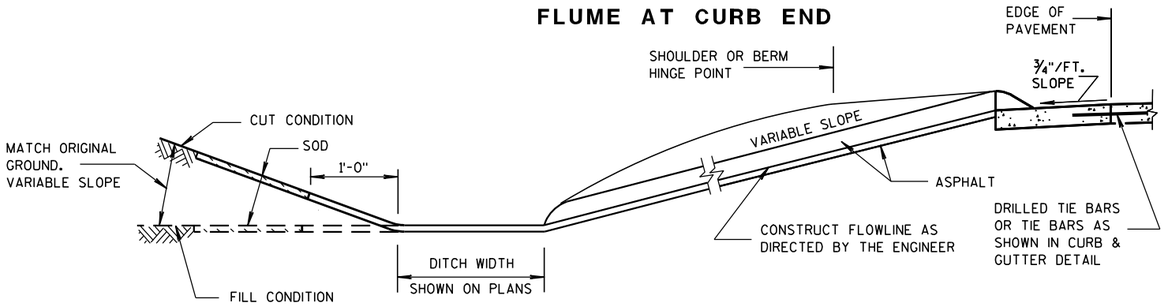
S.D.D. 8 D 1-20b

ASPHALTIC FLUME

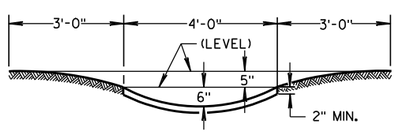


PLAN VIEW
CURB OPENING FOR FLUME

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.

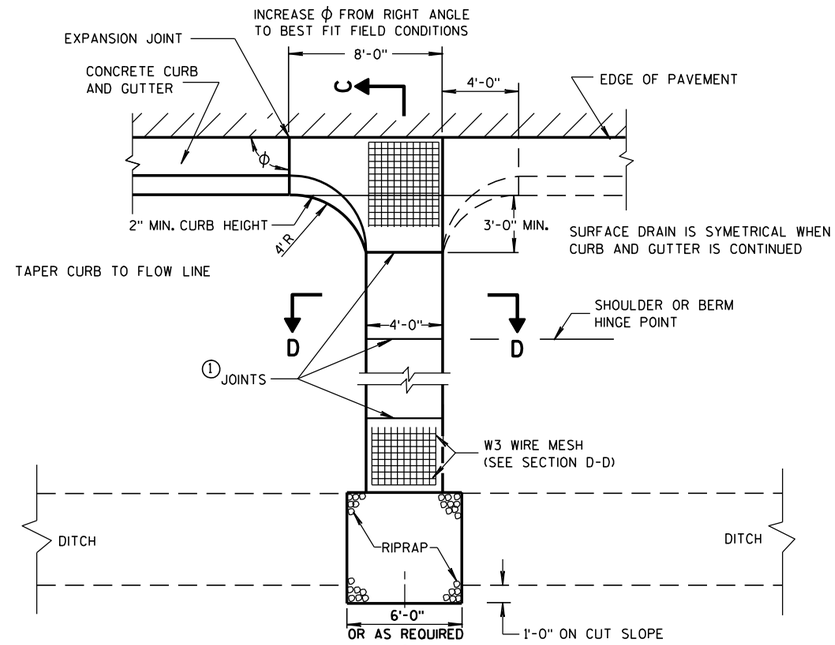
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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.

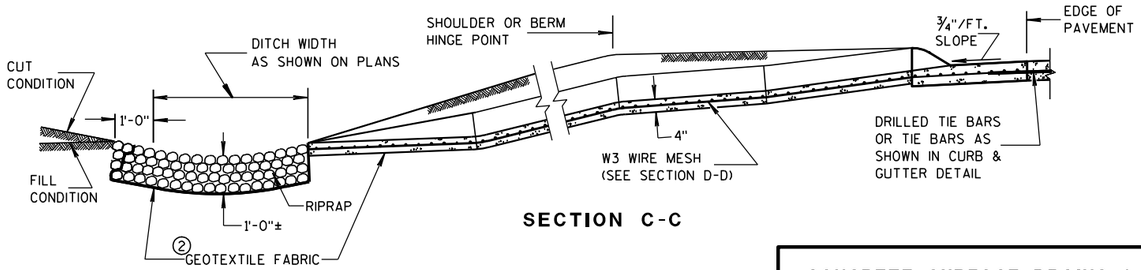
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

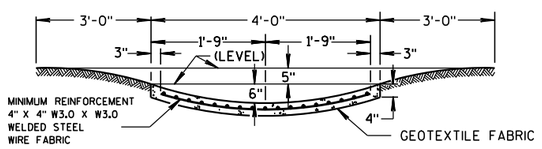
③ CONCRETE SURFACE DRAIN



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. ... ROADWAY STANDARDS ENGINEER — MENT

FHWA

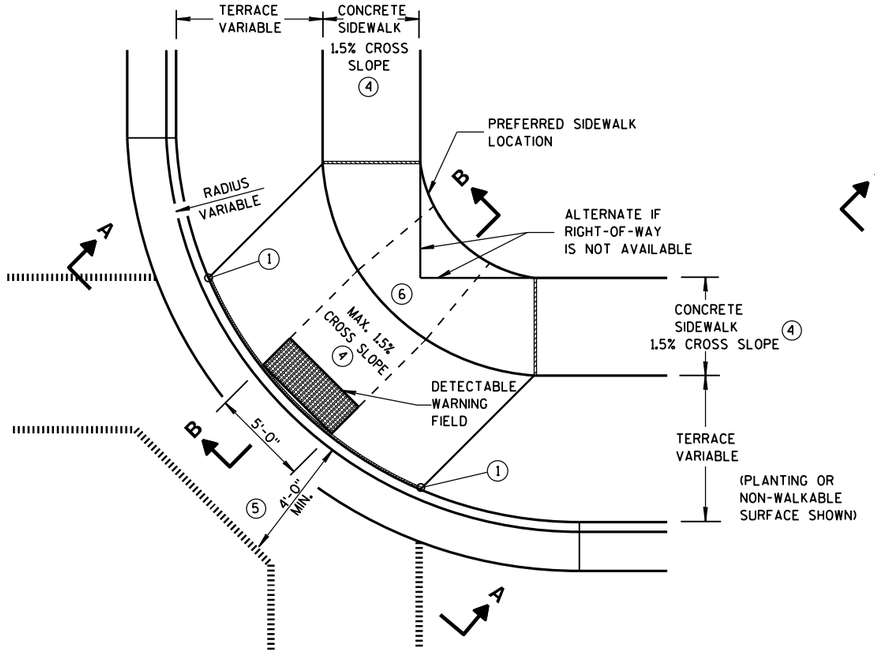
430

6

S.D.D. 8 D 4-5

6

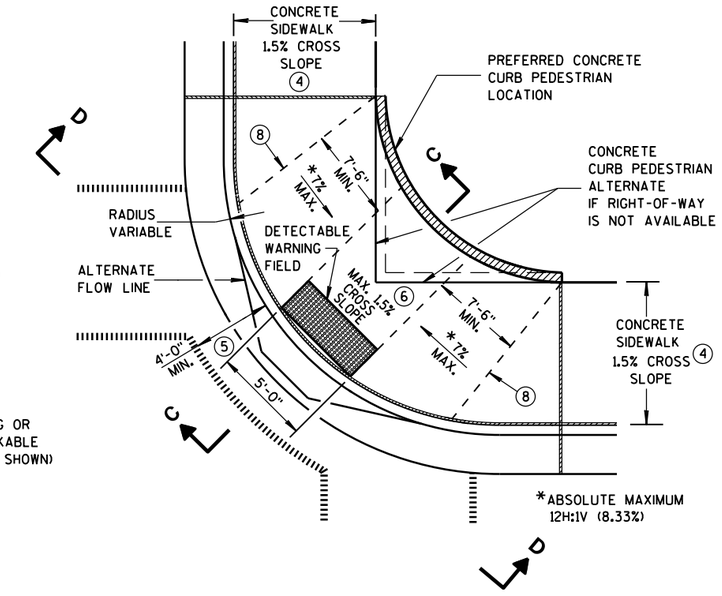
S.D.D. 8 D 4-5



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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 MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

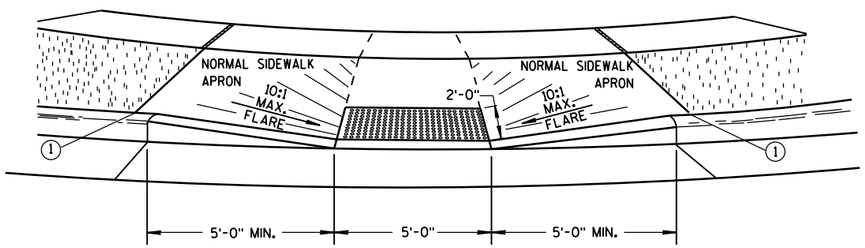
(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(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.

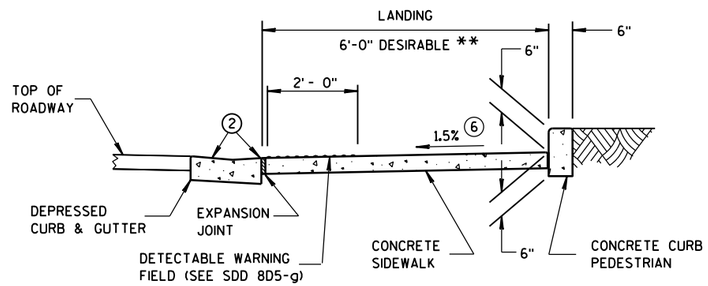
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.



VIEW A-A

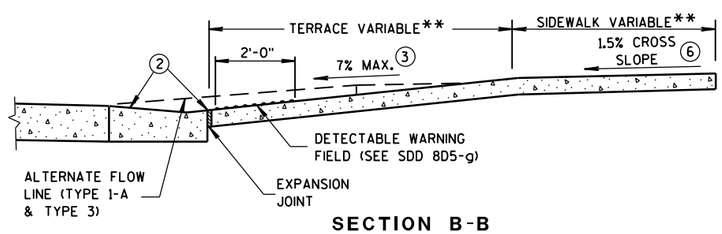
** WIDTH SHOWN ELSEWHERE IN THE PLANS



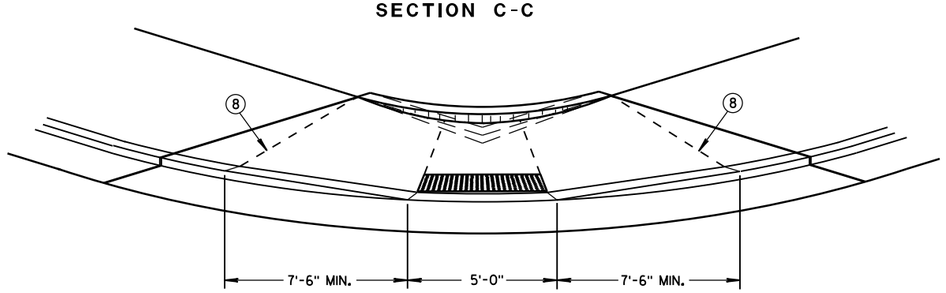
SECTION C-C

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



SECTION B-B



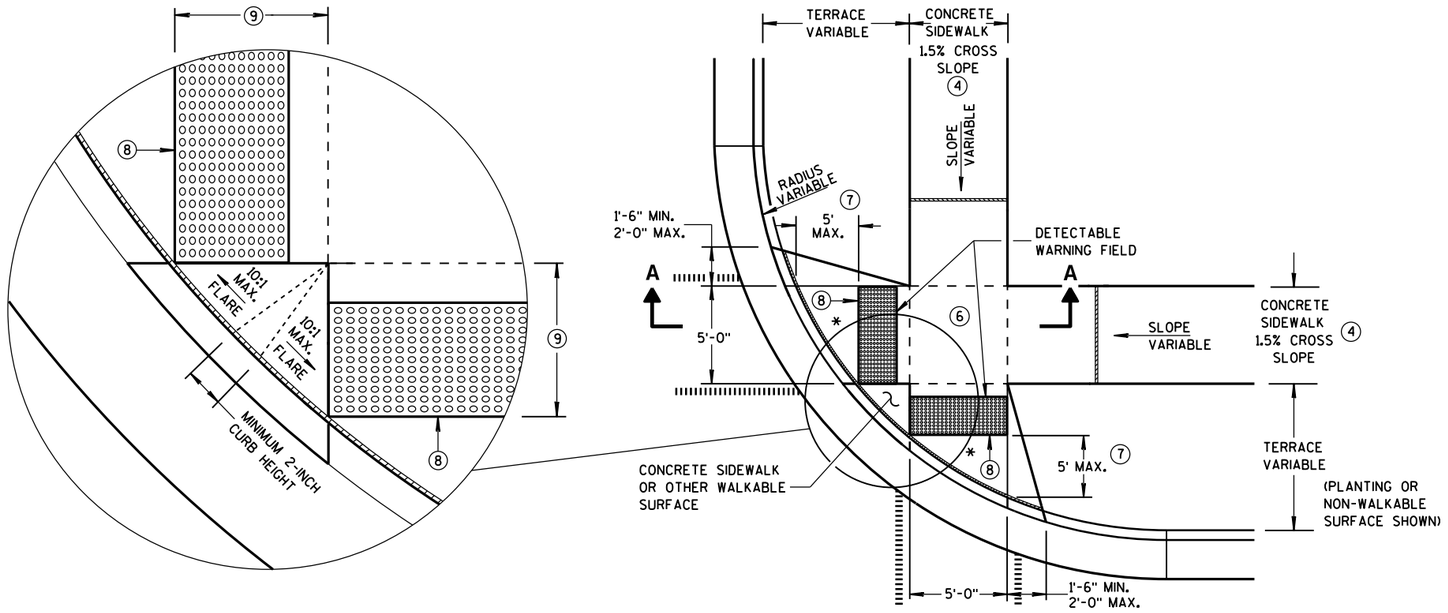
VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

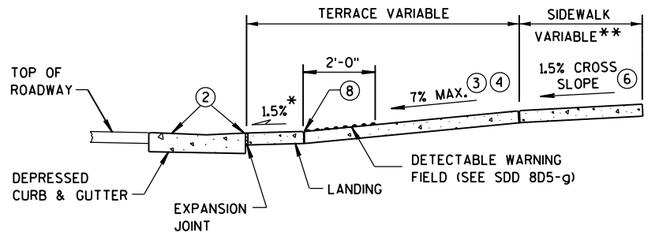
6

S.D.D. 8 D 5-19a



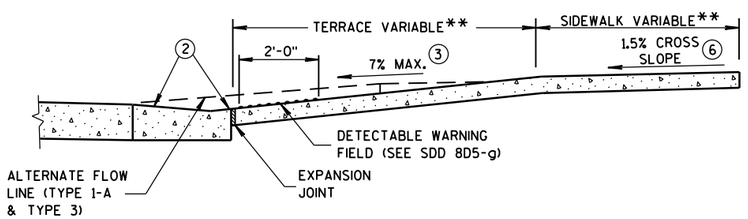
PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

* 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

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 MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(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.

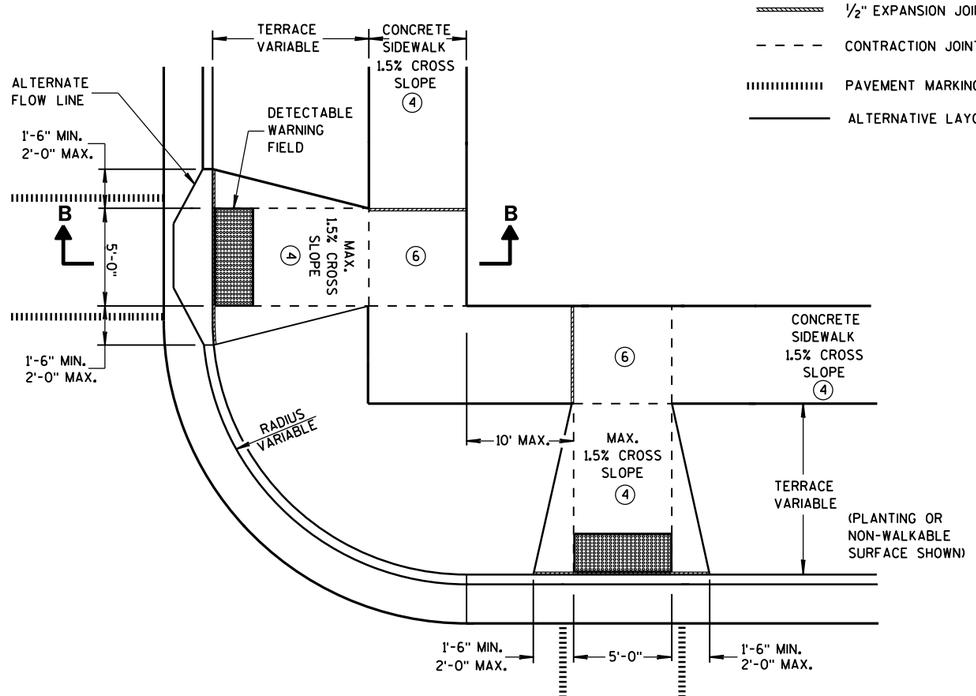
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(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

- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



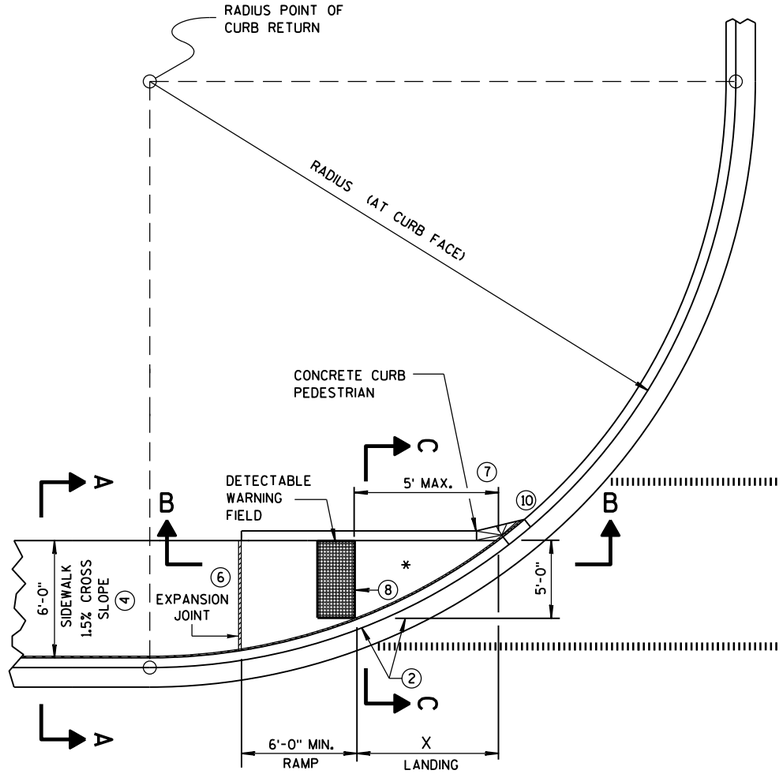
PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

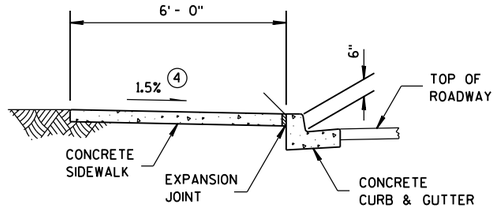
S.D.D. 8 D 5-19b



CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X
10 FEET	4'-7"
15 FEET	6'-5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

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 MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

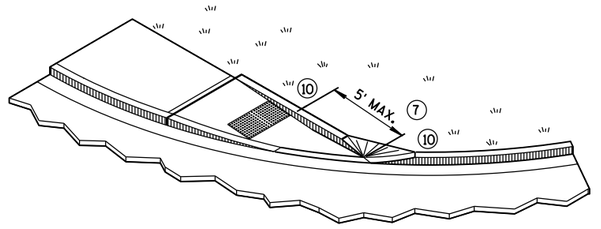
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

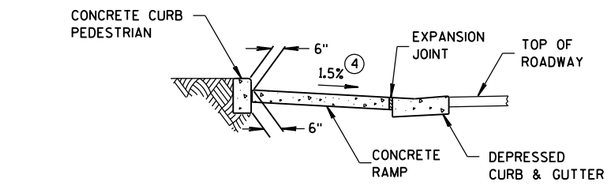
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

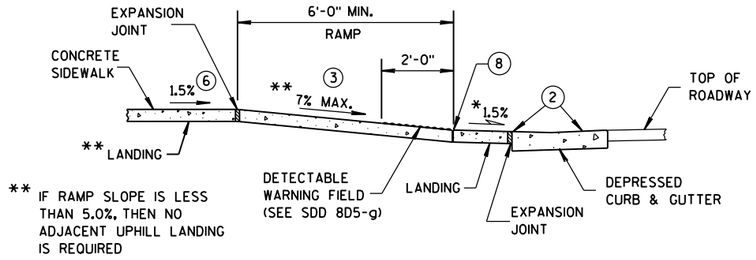
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4A



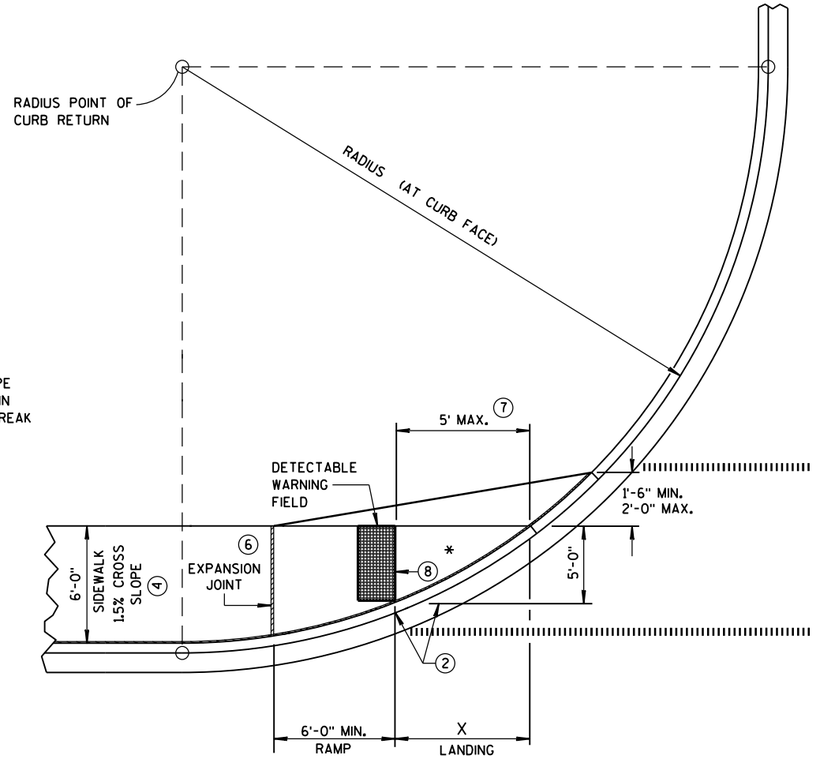
SECTION C-C FOR TYPE 4A



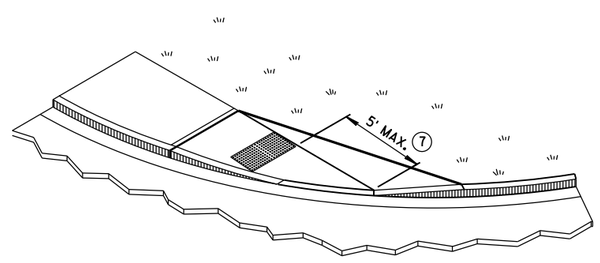
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4A

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



CURB RAMP TYPE 4A1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

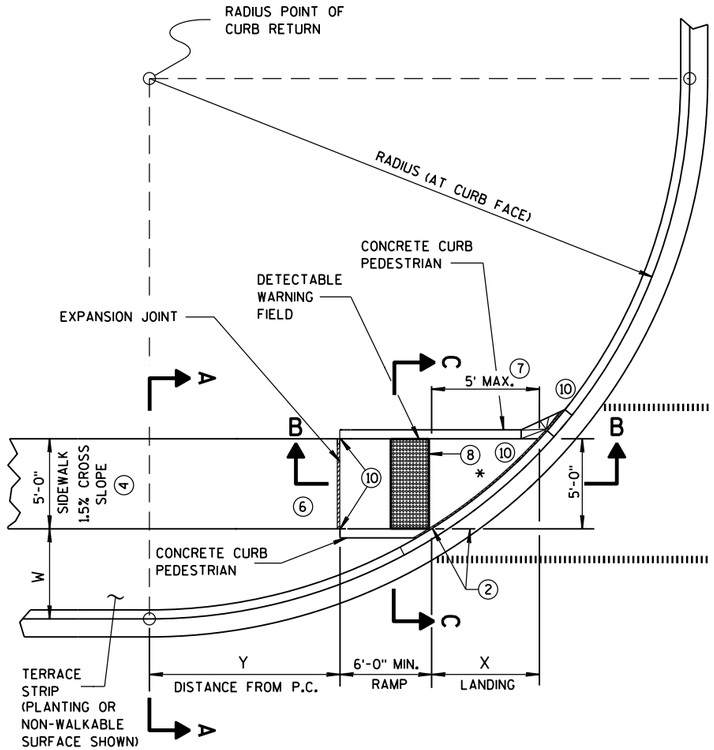
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

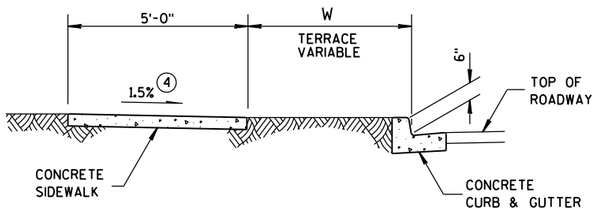
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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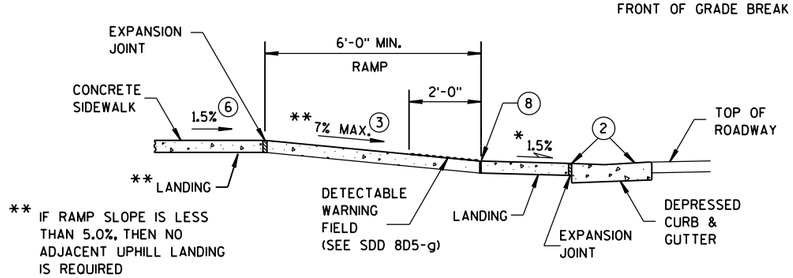
S.D.D. 8 D 5-19c



CURB RAMP TYPE 4B
PLAN VIEW



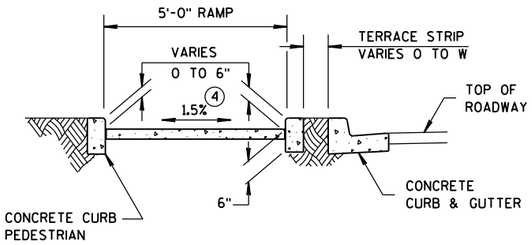
SECTION A-A FOR TYPE 4B



SECTION B-B FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"		W = 8'-0"		W = 9'-0"		W = 10'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2'-10¼"	0'-5"	2'-1"	1'-4½"	1'-5"	2'-1"	0'-10"	2'-7½"	0'-3¼"	3'-0¼"						
15 FEET	4'-6¾"	2'-1¾"	3'-9"	3'-5¼"	3'-1¼"	4'-6"	2'-6¾"	5'-4½"	2'-1"	6'-1"	1'-8"	6'-8½"	1'-3¼"	7'-2½"	0'-10¾"	7'-7¼"
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-7"	3'-3"	8'-6½"	2'-10"	9'-4½"	2'-5½"	10'-1¼"	2'-1¼"	10'-9"
30 FEET			6'-9¼"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"	4'-5½"	13'-7¾"	4'-0¾"	14'-8½"	3'-8½"	15'-8¼"
40 FEET									6'-1¾"	15'-8½"	5'-8"	17'-2"	5'-3"	18'-5¾"	4'-10¾"	19'-8¼"
50 FEET															5'-10¼"	23'-2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C-C FOR TYPE 4B

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 MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

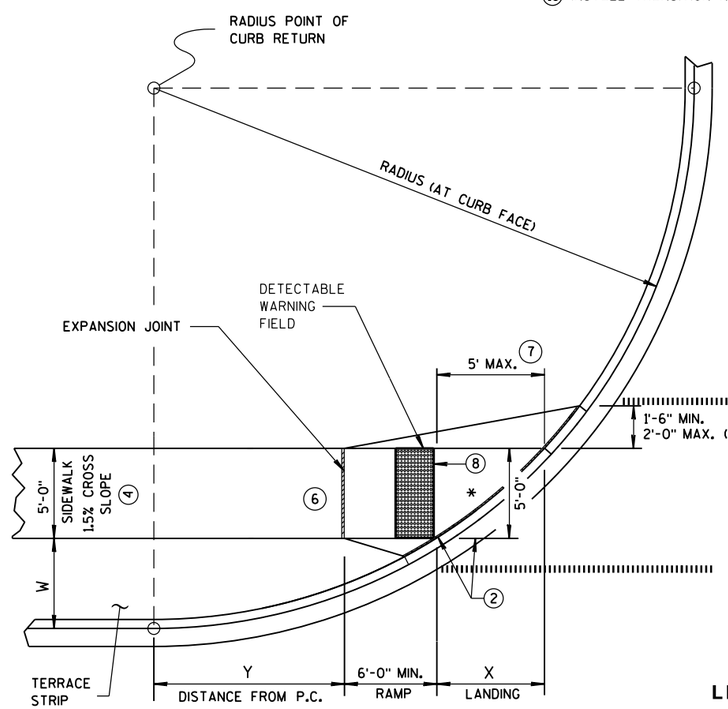
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

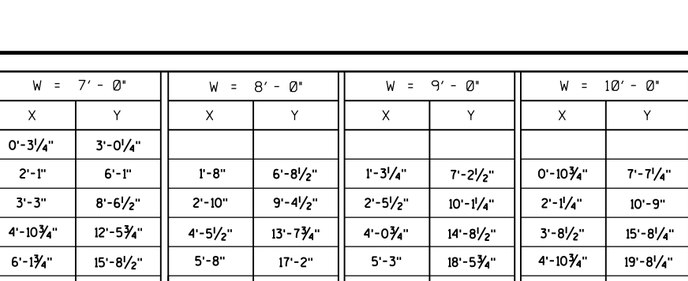
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

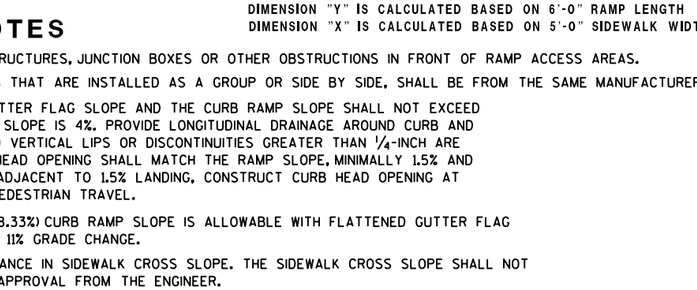
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

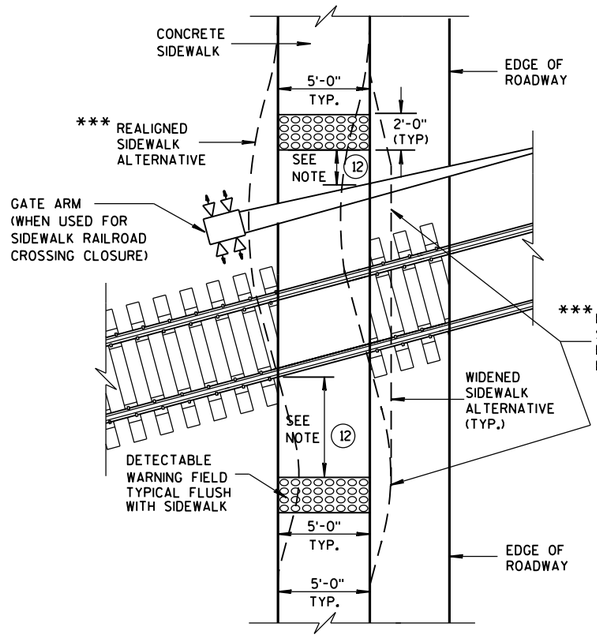
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

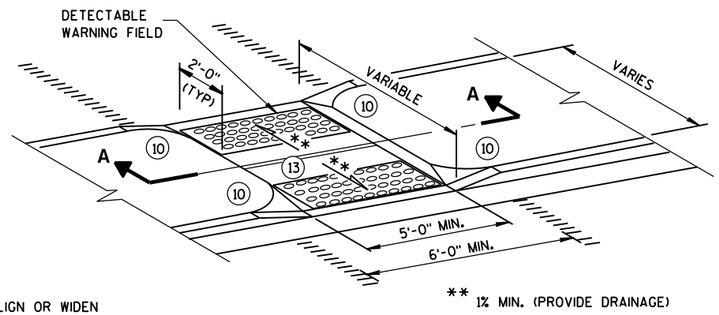
6

S.D.D. 8 D 5-19d



*** DETAILS TO BE DETERMINED BY DESIGNER

TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND
NON-ELEVATED PEDESTRIAN CROSSING
TYPE 5

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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 MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(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.

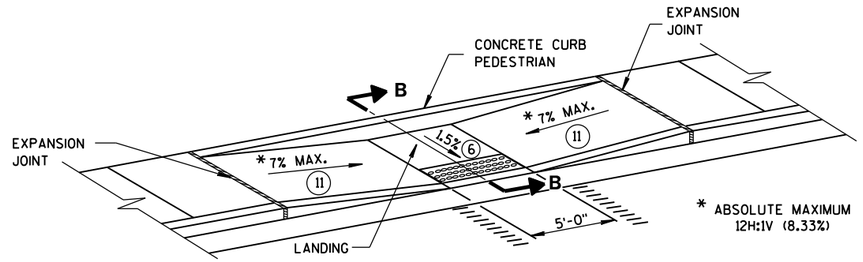
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

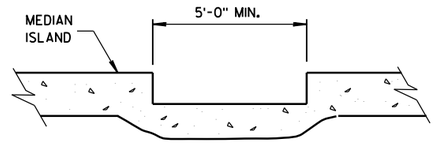
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(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.

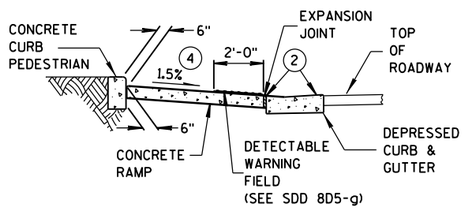
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2-FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.



MID-BLOCK CROSSING
TYPE 7A

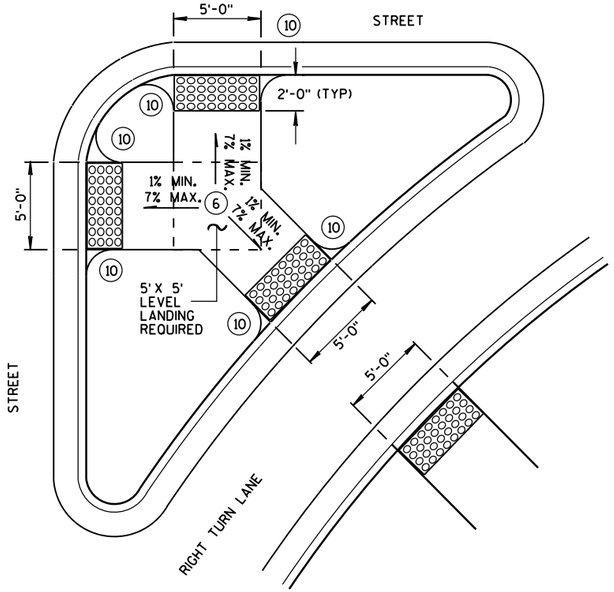


SECTION A-A

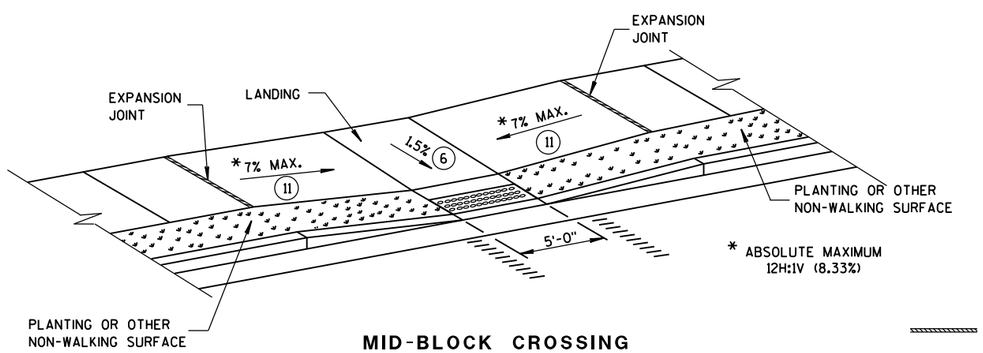


SECTION B-B

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

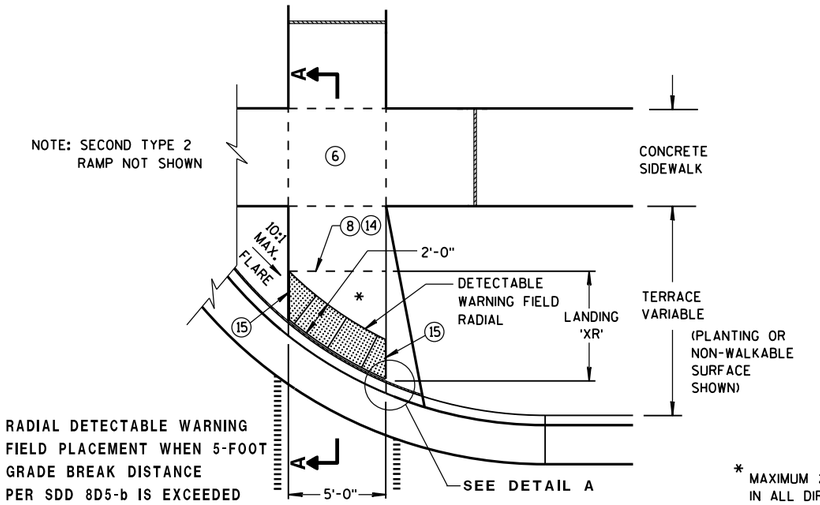
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-19e

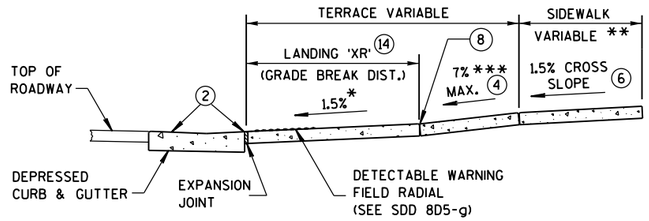


TYPE 2 RAMP
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION A-A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS (DWFs) THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(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 MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(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.

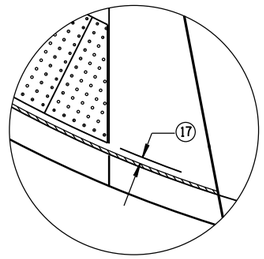
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION 'XR') REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

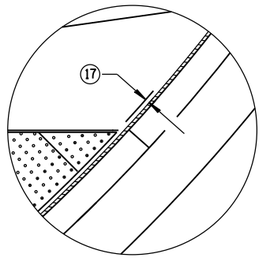
(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1'X 2' RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2'-0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

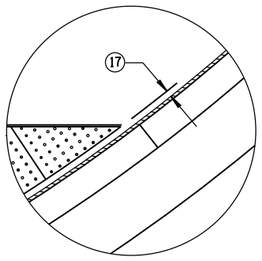
(17) A MAXIMUM 3-INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.



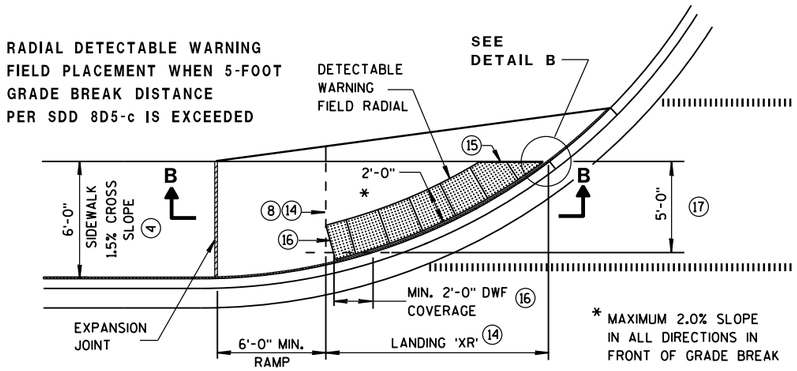
DETAIL A



DETAIL C

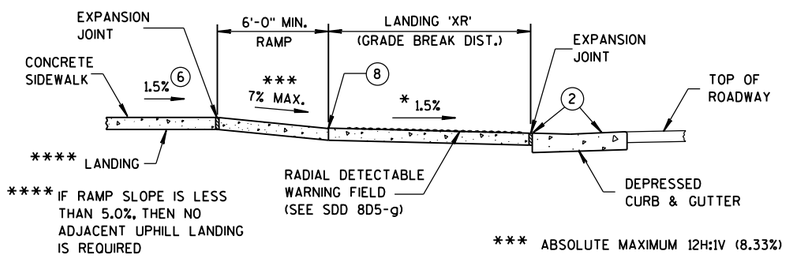


DETAIL B



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

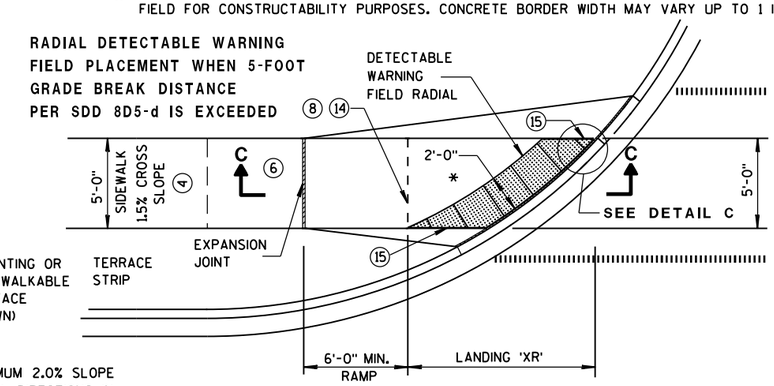
CURB RAMP TYPE 4A1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

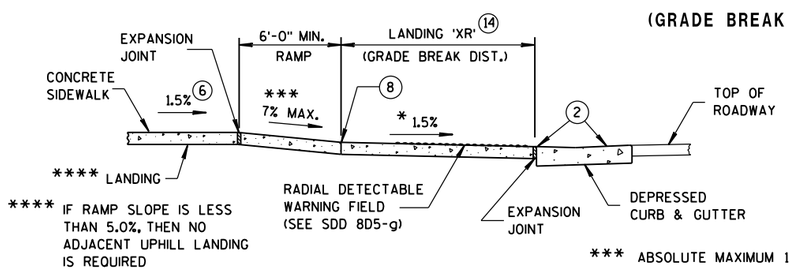
*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION B-B FOR TYPE 4A1



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

CURB RAMP TYPE 4B1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION C-C FOR TYPE 4B1

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 436

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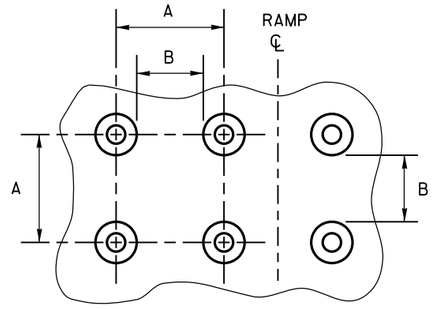
S.D.D. 8 D 5-19f

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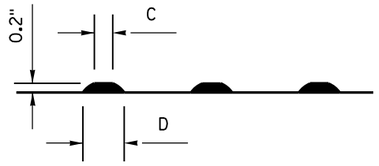
S.D.D. 8 D 5-19f

	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

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

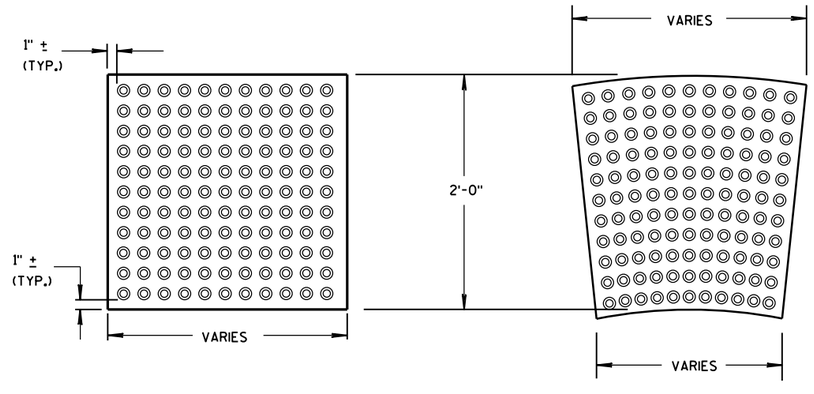
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGES IN COMBINATION WITH SQUARE PANELS ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

⑮ FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

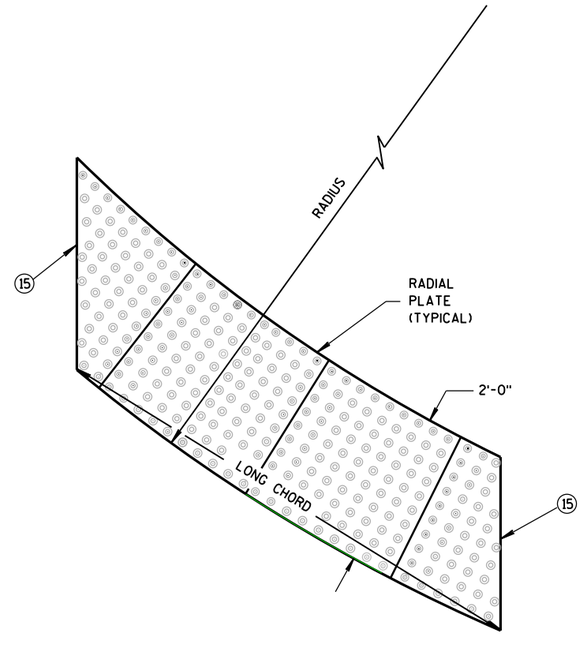


RECTANGULAR PLATES

RADIAL PLATES

DETECTABLE WARNING FIELDS (TYPICAL)

PLAN VIEW



RADIAL DETECTABLE WARNING FIELD ATTRIBUTES

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

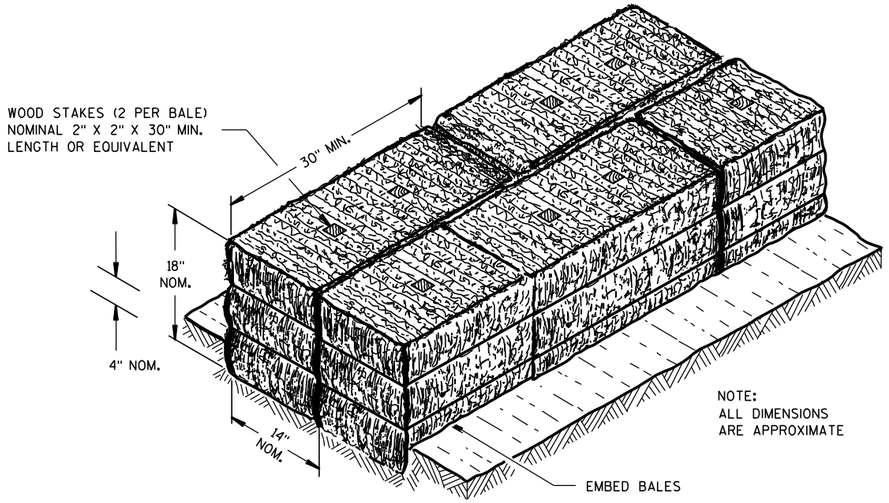
APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERV
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FHWA

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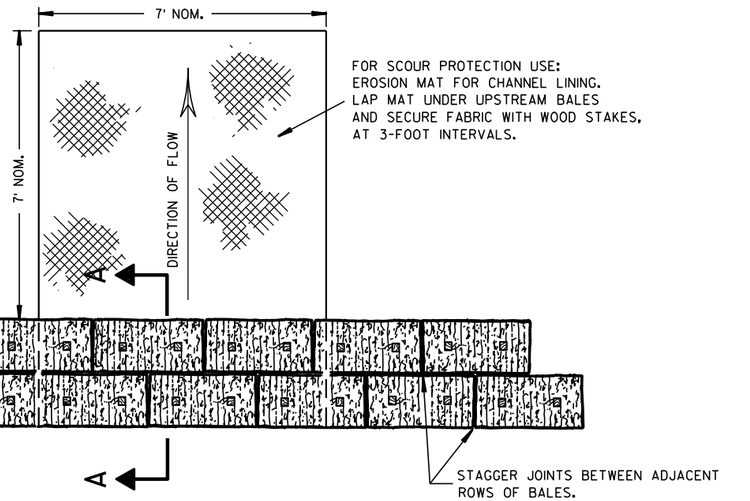
S.D.D. 8 D 5-19g

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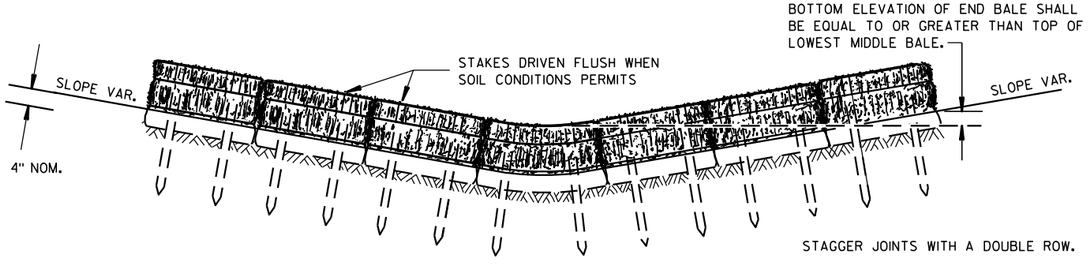
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SECTION A-A



PLAN VIEW



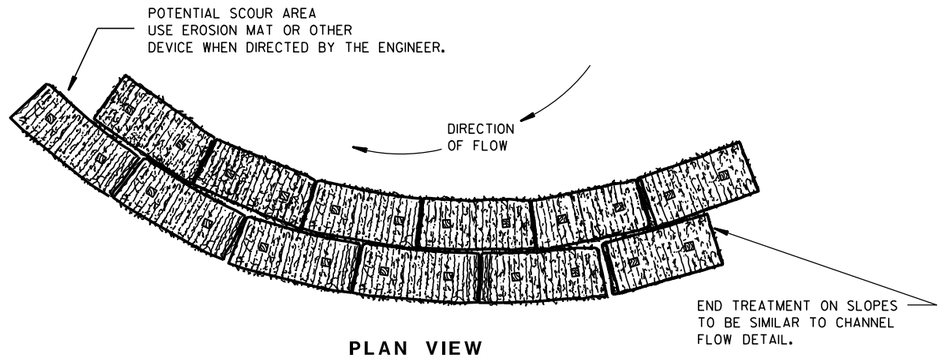
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

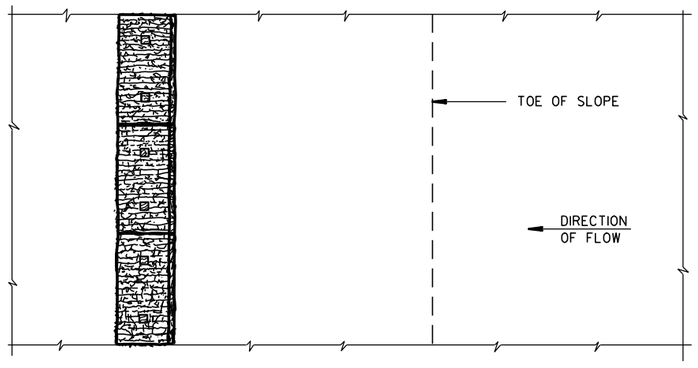
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

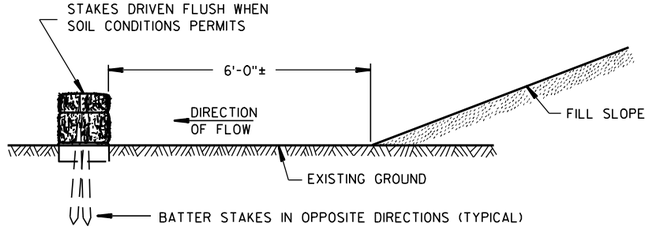


PLAN VIEW

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

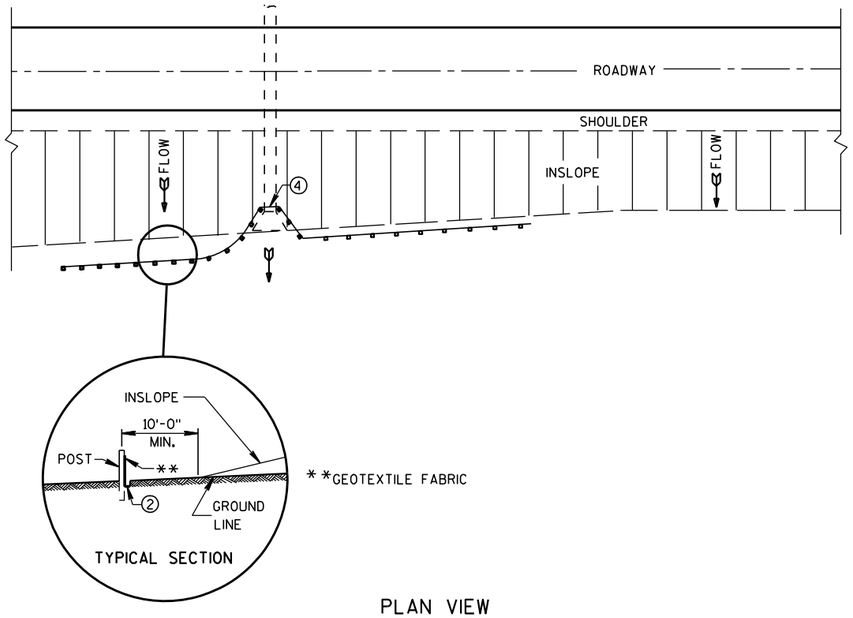
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 E 8-3

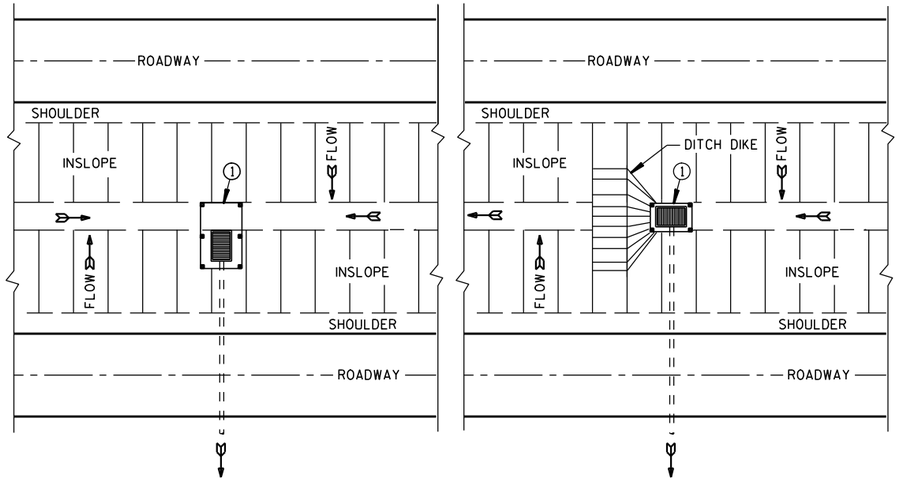
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



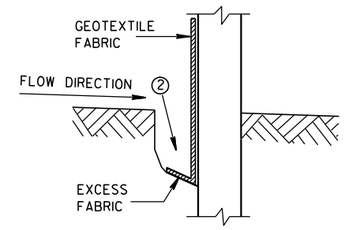
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

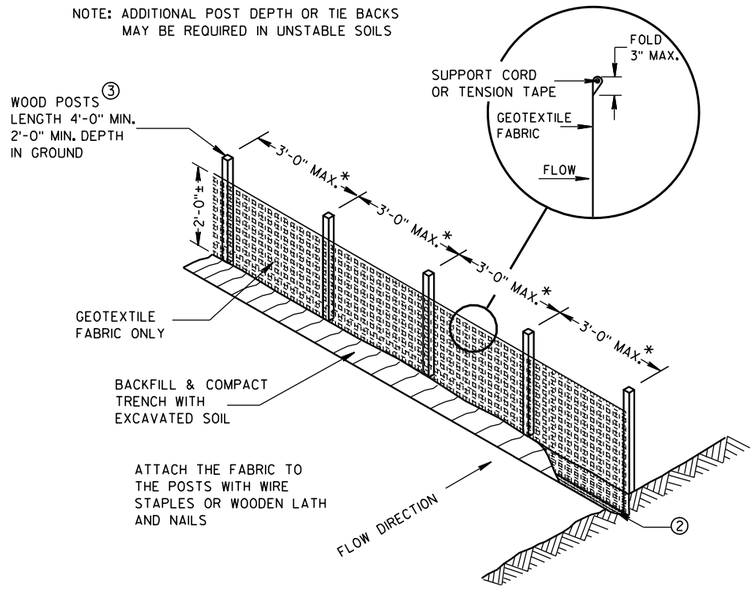
GENERAL NOTES

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.

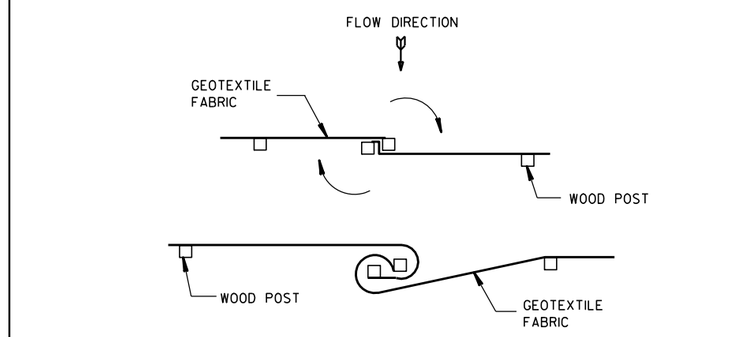


TRENCH DETAIL

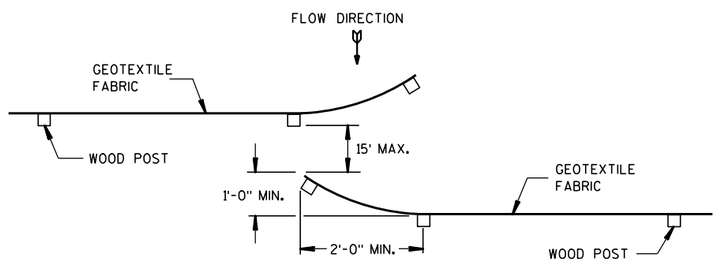


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

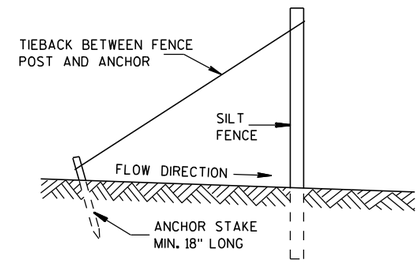


TWIST METHOD



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

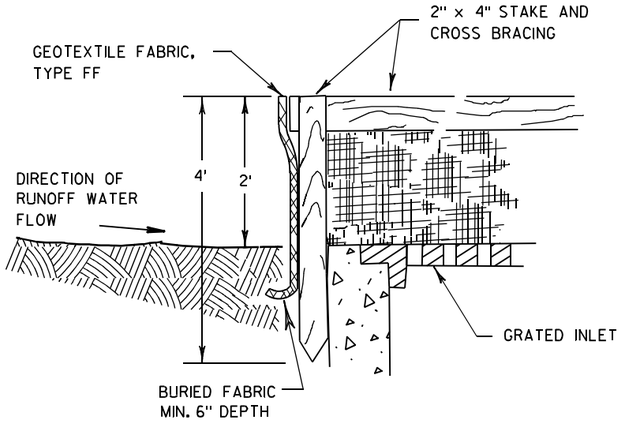
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

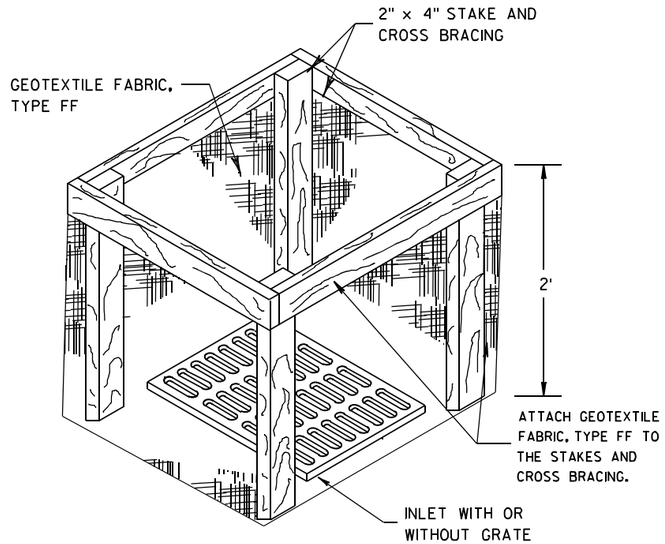
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S.D.D. 8 E 9-6

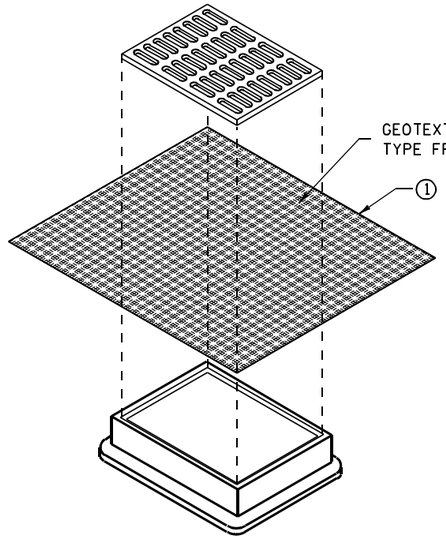
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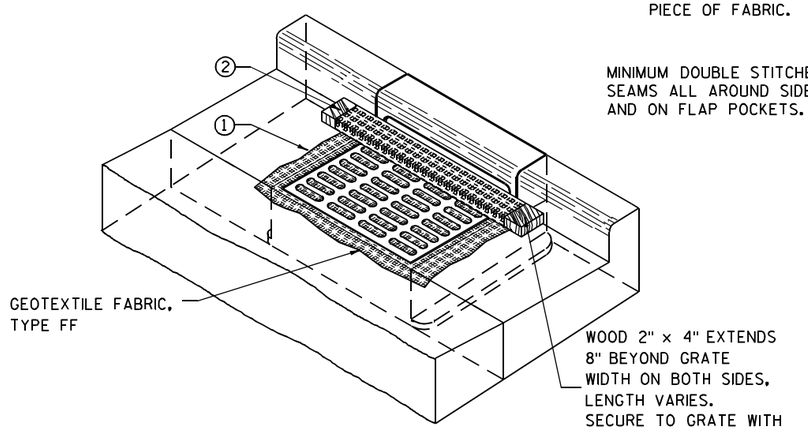


INLET PROTECTION, TYPE A

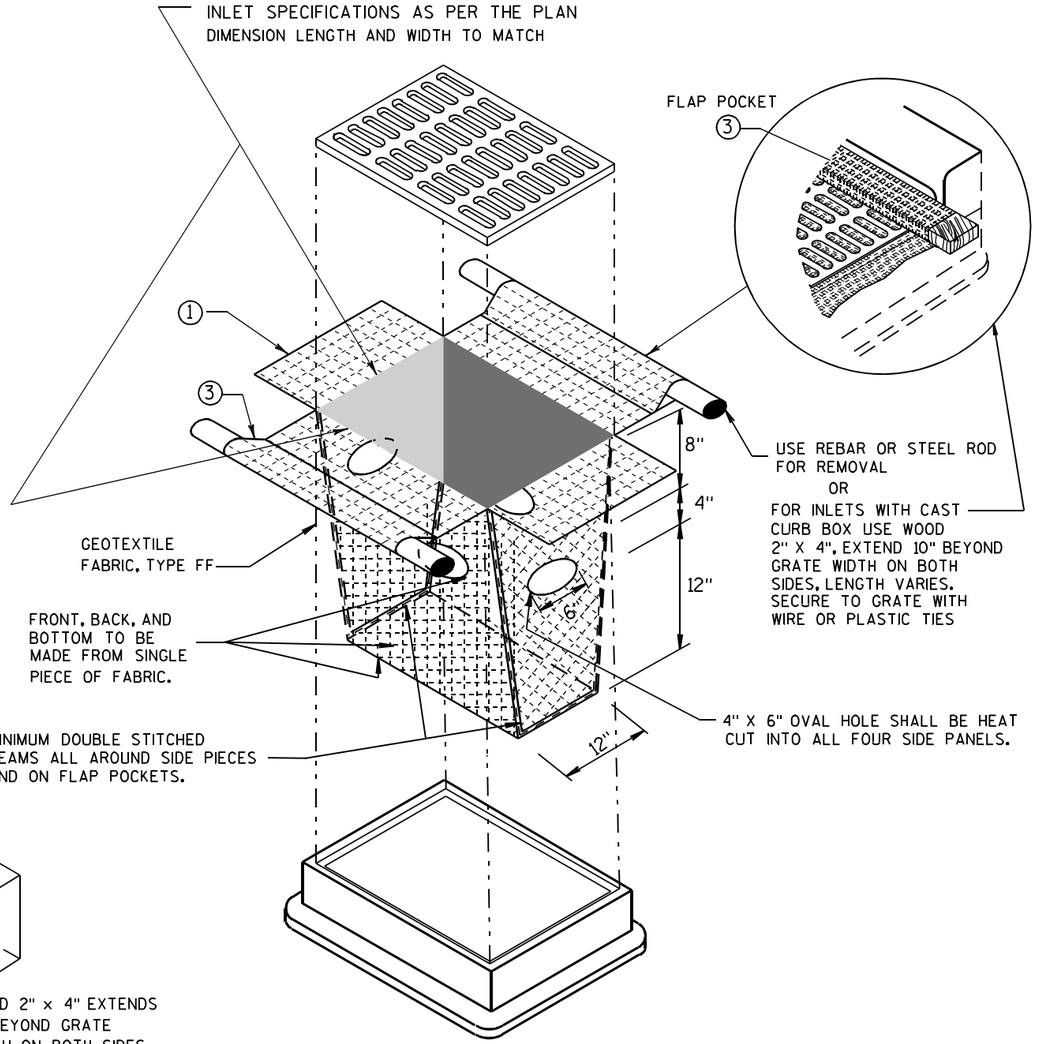


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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.

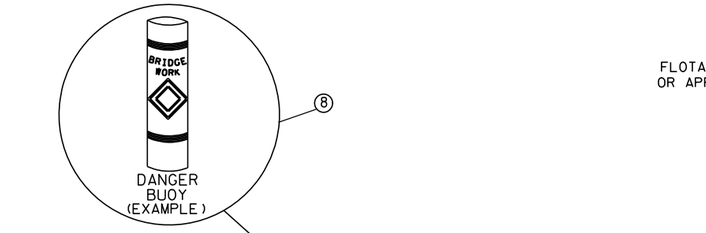
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

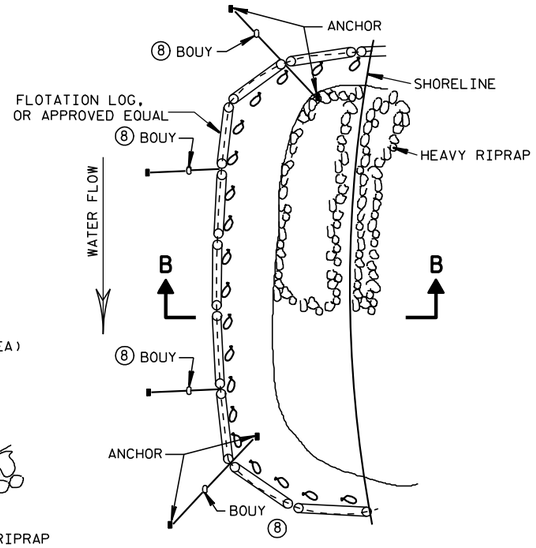
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

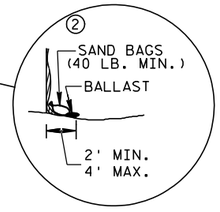
APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2

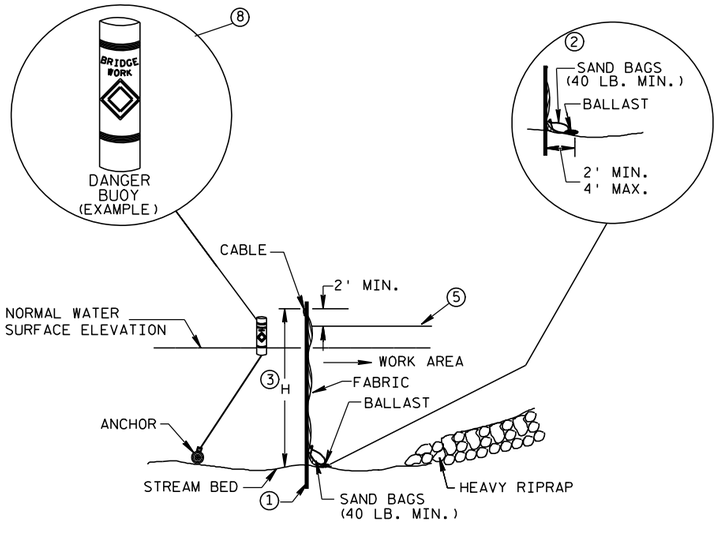


SECTION B-B

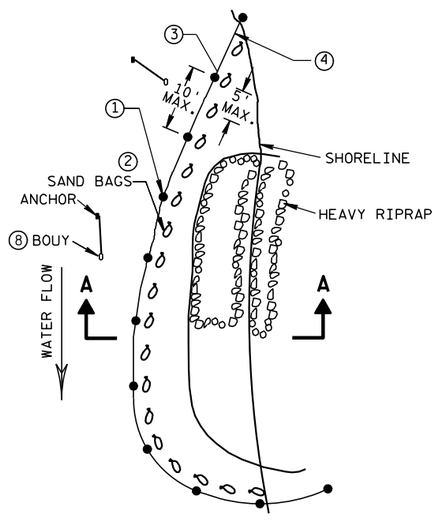




TURBIDITY BARRIER FLOAT ALTERNATIVE
CAUTION - SEE NOTE 6



SECTION A-A



PLAN VIEW

TURBIDITY BARRIER STANDARD POST INSTALLATION

TURBIDITY BARRIER PLACEMENT DETAILS

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.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.

② SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.

③ WHEN BARRIER HEIGHT, H, EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.

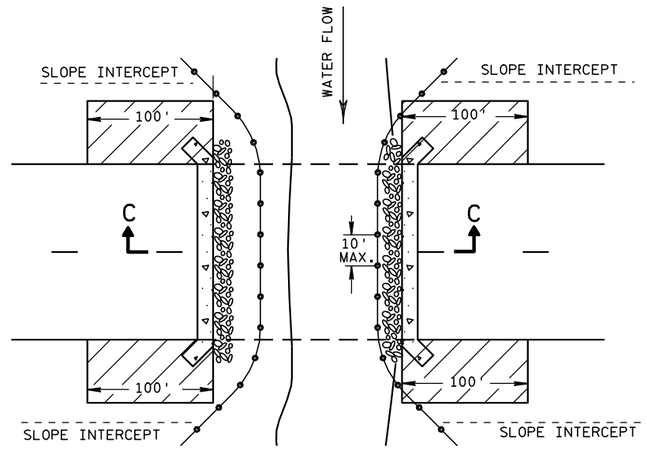
④ IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.

⑤ ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE O2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.

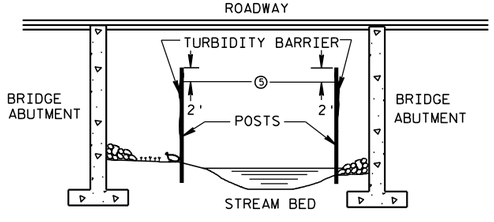
⑥ FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.

⑦ ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.

⑧ USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

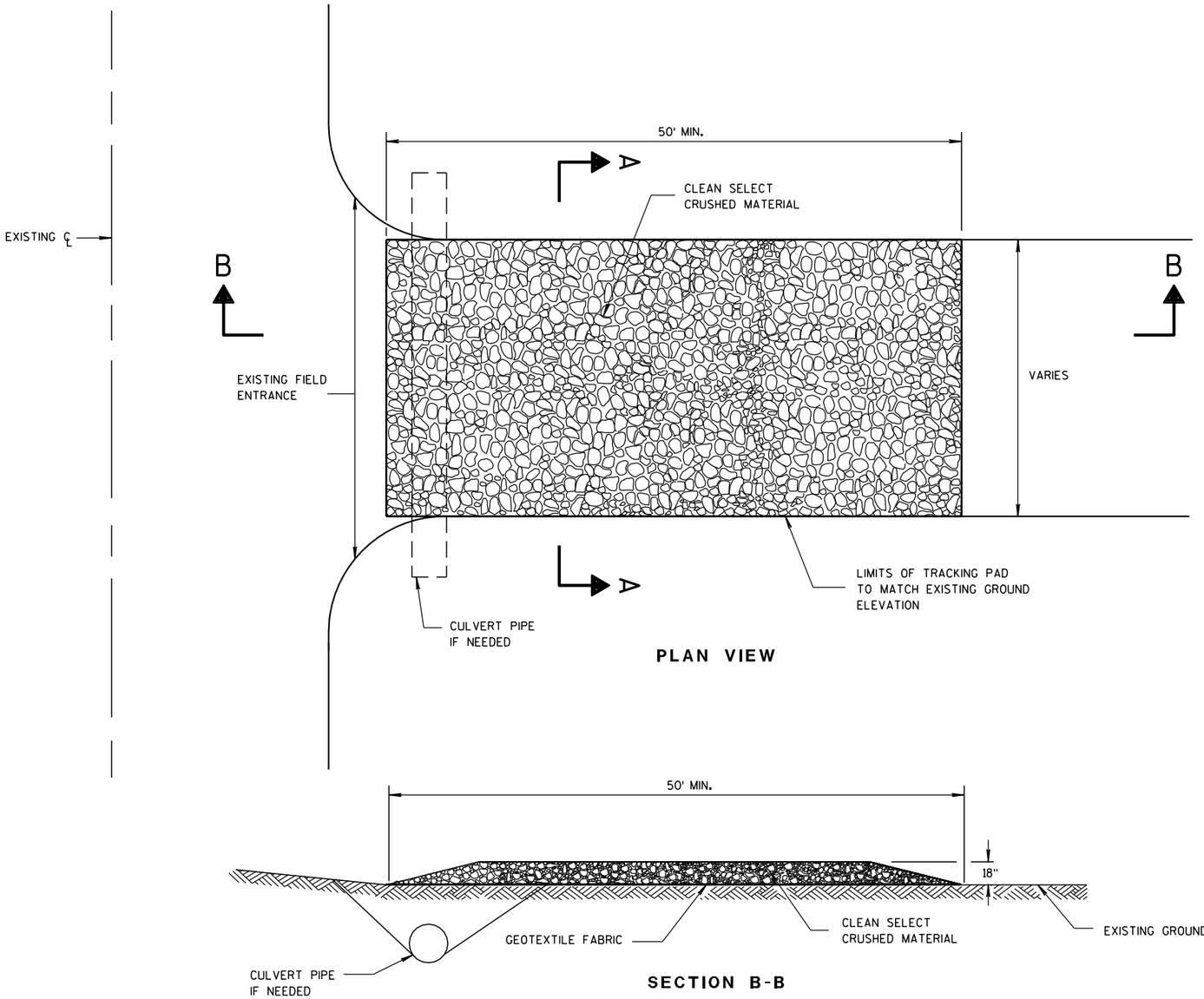
APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 E 11-2

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S.D.D. 8 E 11-2



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.

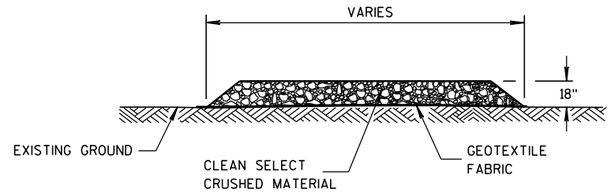
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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 FHWA	/S/ Jerry H. Zoda ROADWAY STANDARDS ENGINEER
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METAL APRON ENDWALLS

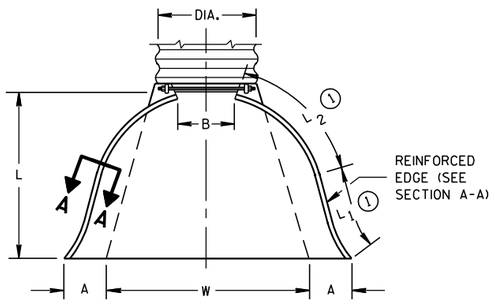
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 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

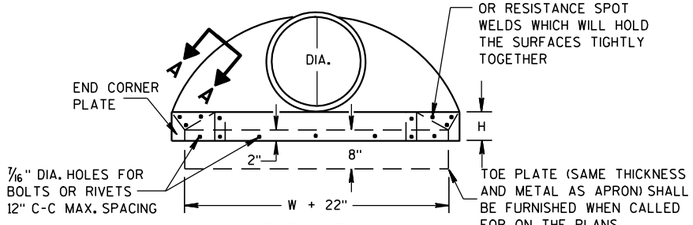
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
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

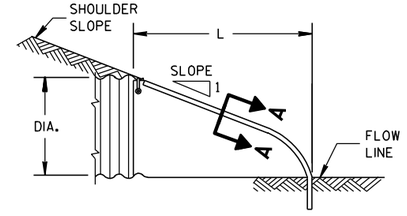
*MINIMUM
**MAXIMUM



PLAN VIEW

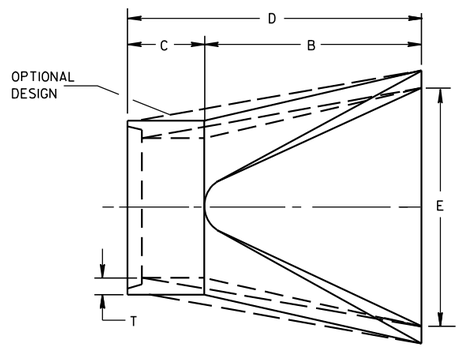


END VIEW

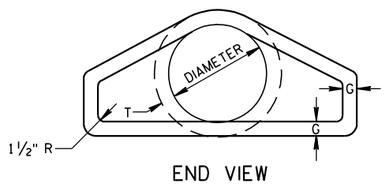


SIDE ELEVATION

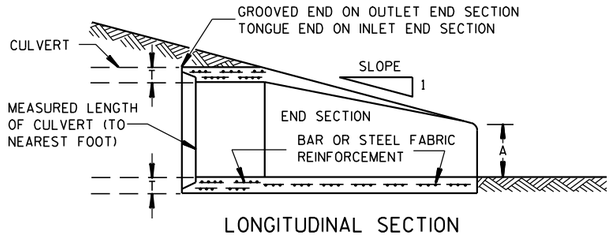
METAL ENDWALLS



PLAN

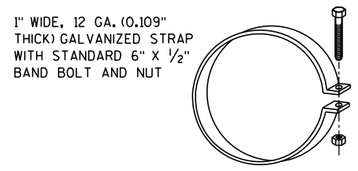


END VIEW



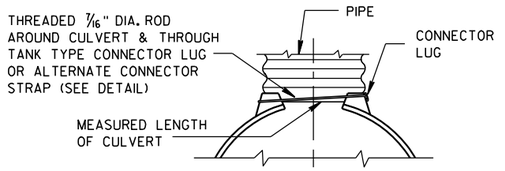
LONGITUDINAL SECTION

CONCRETE ENDWALLS

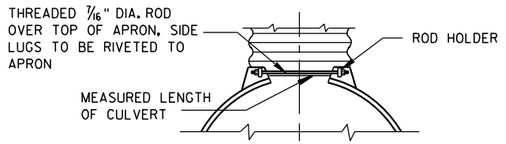


ALTERNATE FOR TYPE 1 CONNECTION

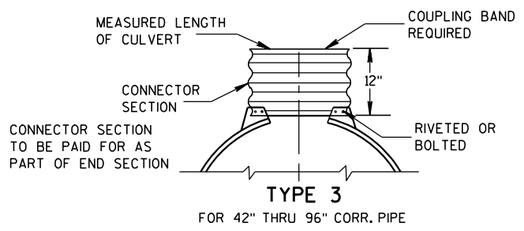
END SECTION CONNECTOR STRAP



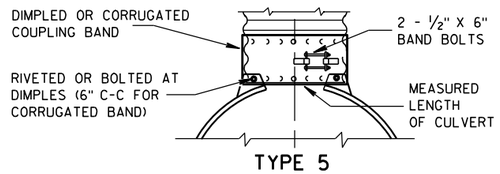
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

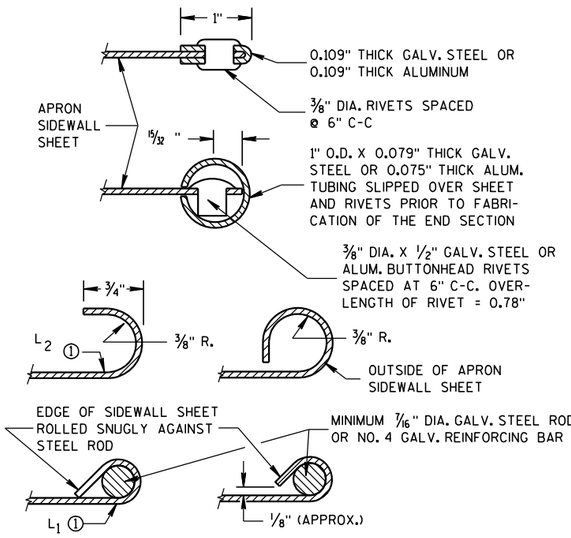
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

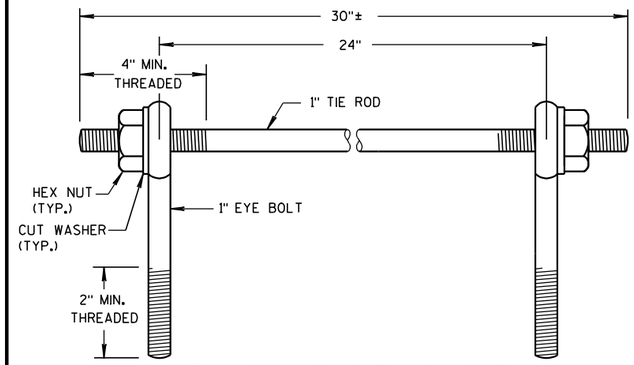
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

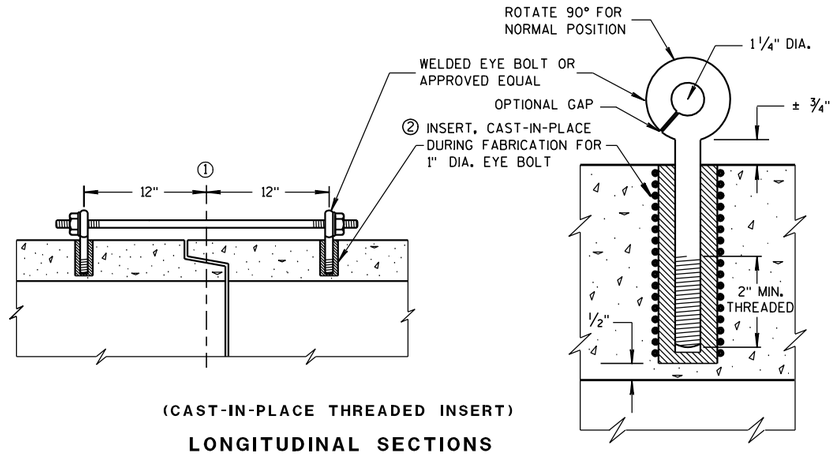
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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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.

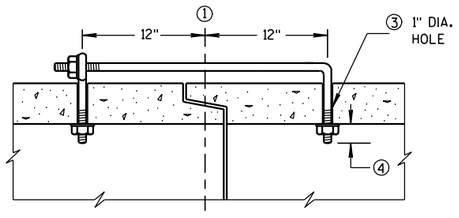
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

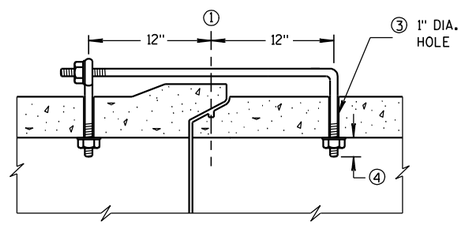
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

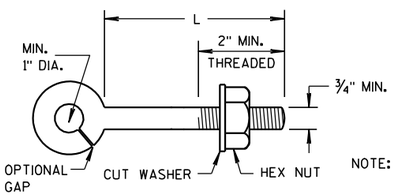


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

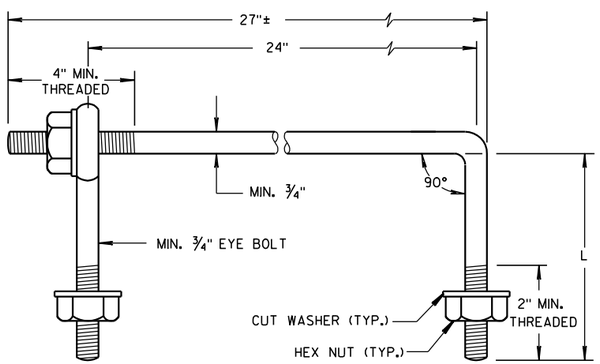
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

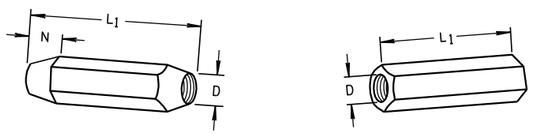
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

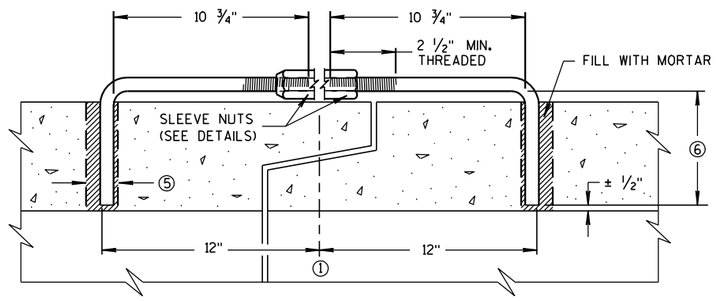
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

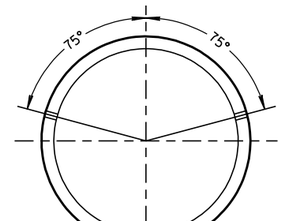
SLEEVE NUTS



LONGITUDINAL SECTION

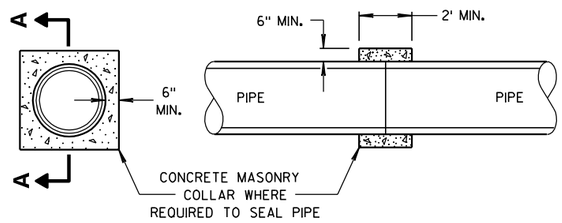
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

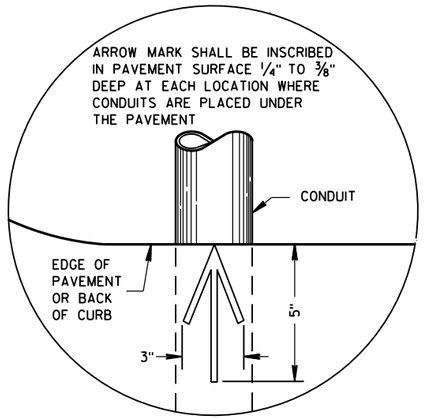
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
444
FHWA

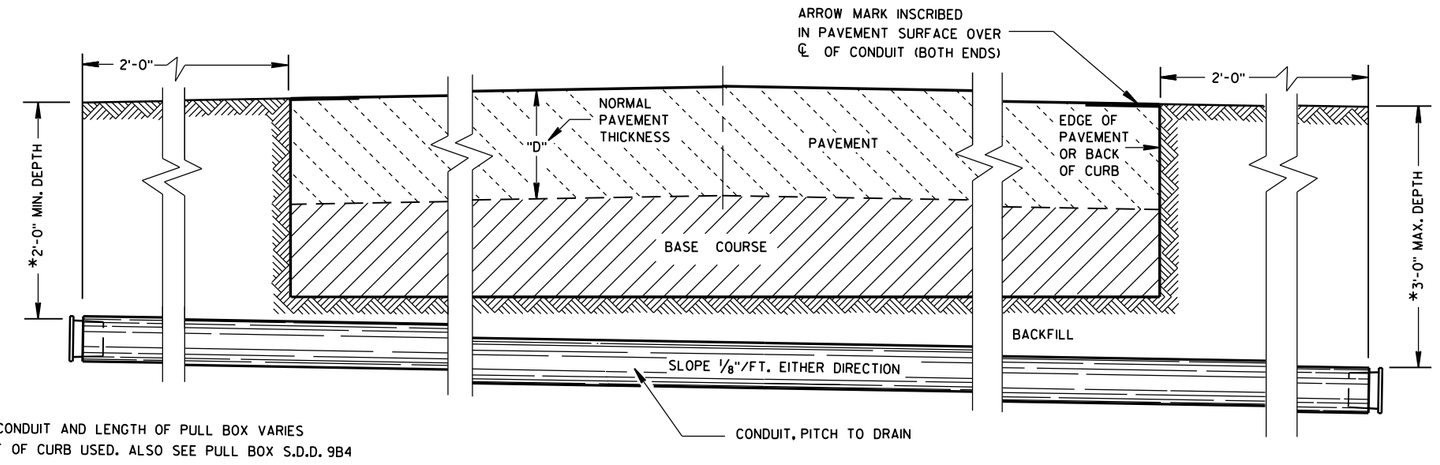
6

S.D.D. 8 F 4-7



PLAN VIEW

ARROW MARK



*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

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.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

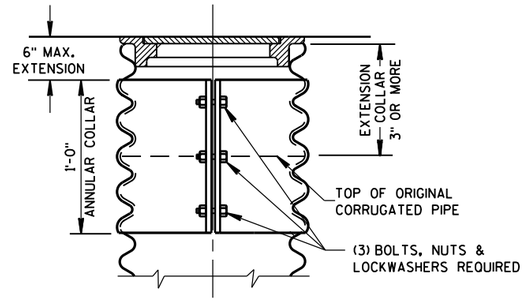
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

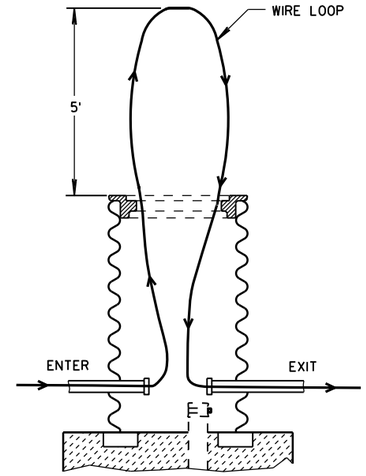
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

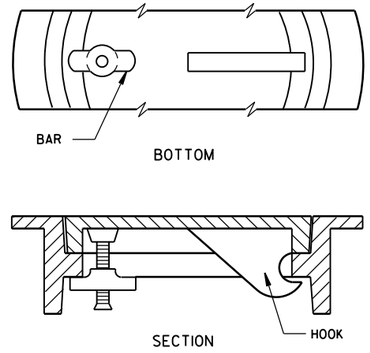
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

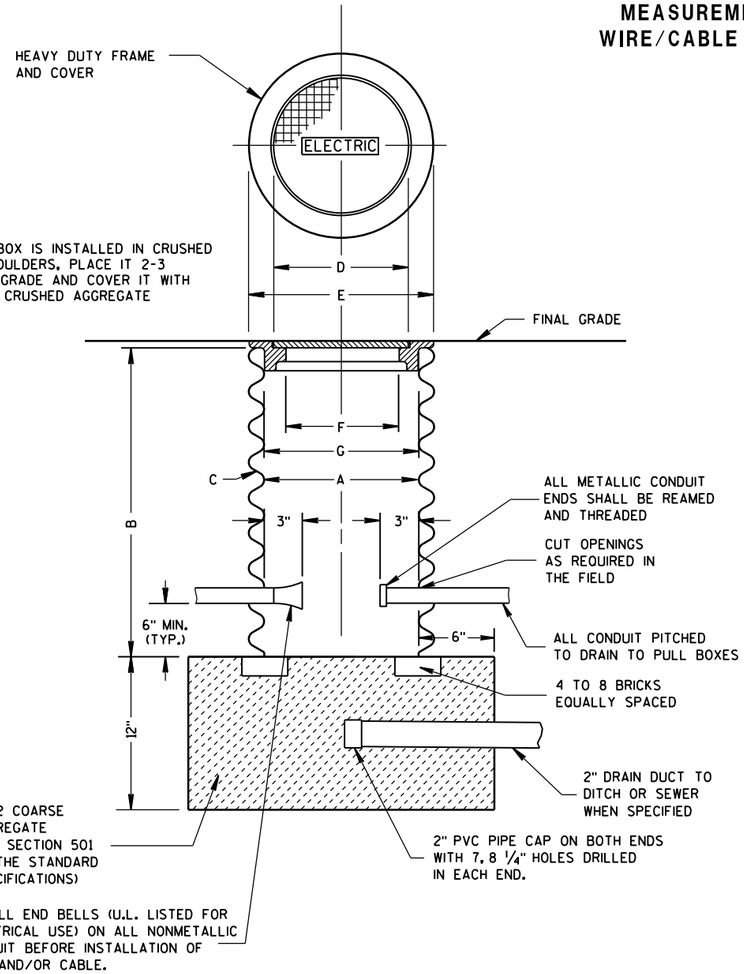


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



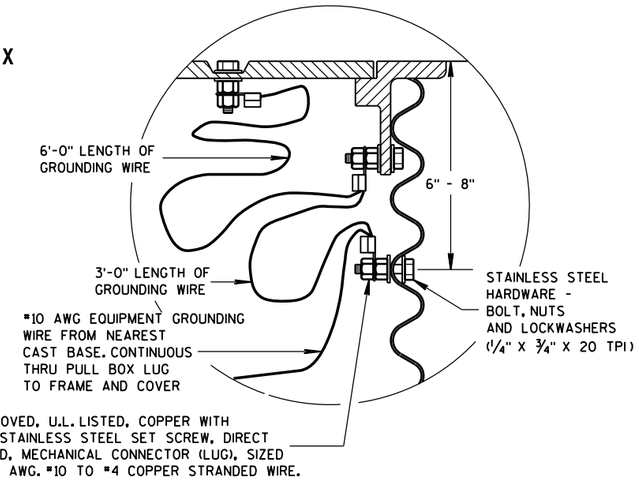
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

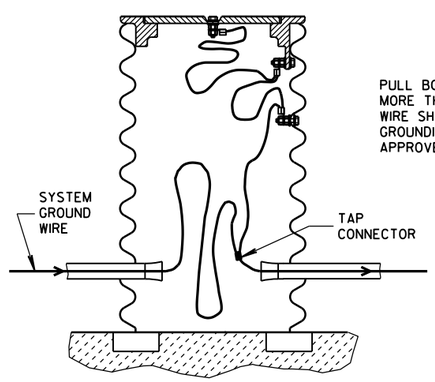


WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

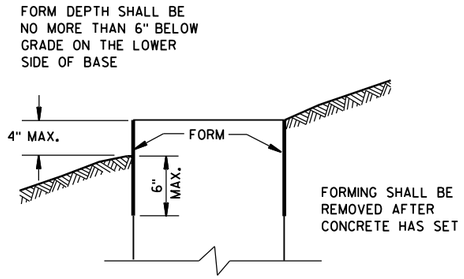
PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 B 4-11



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

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 SMOOTH 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 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

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. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

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) FOR TYPE 1, TYPE 2, TYPE 5, AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES 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.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(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 EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

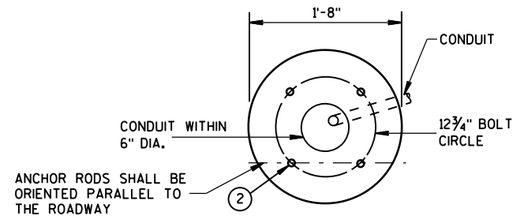
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

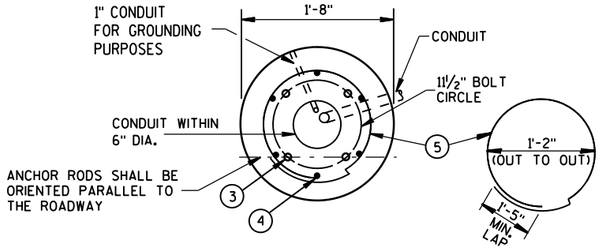
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

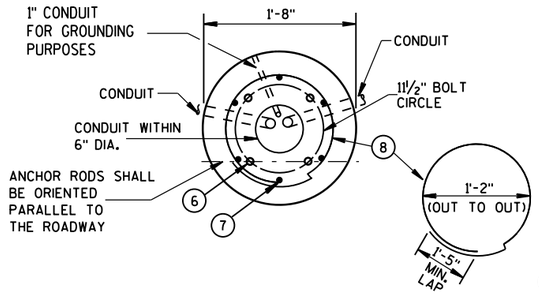
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

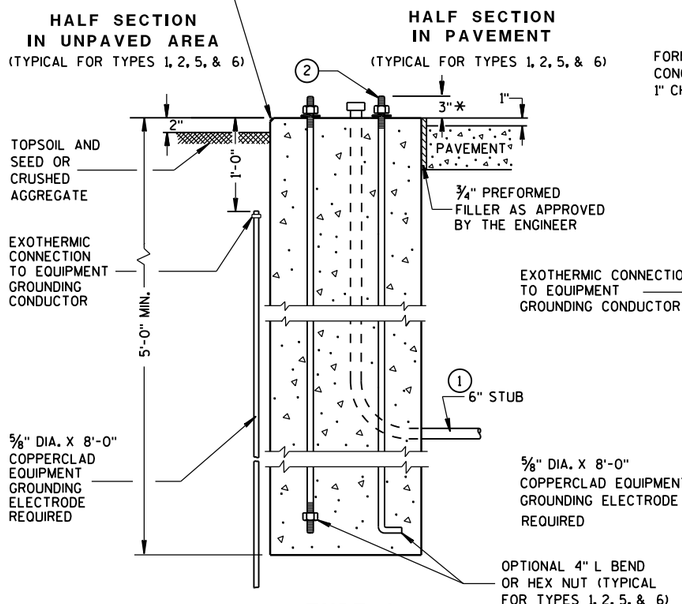
(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.





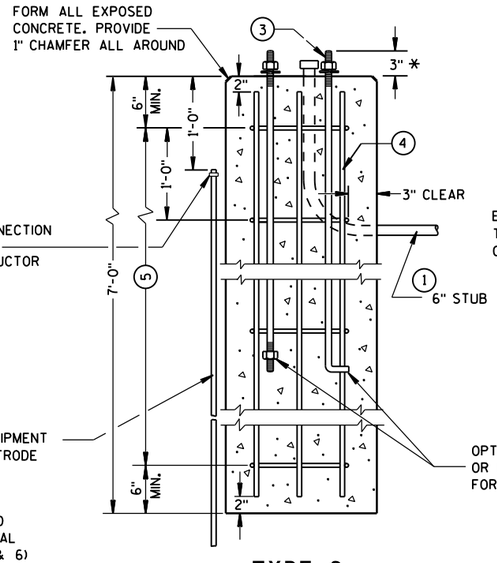


HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5, & 6)

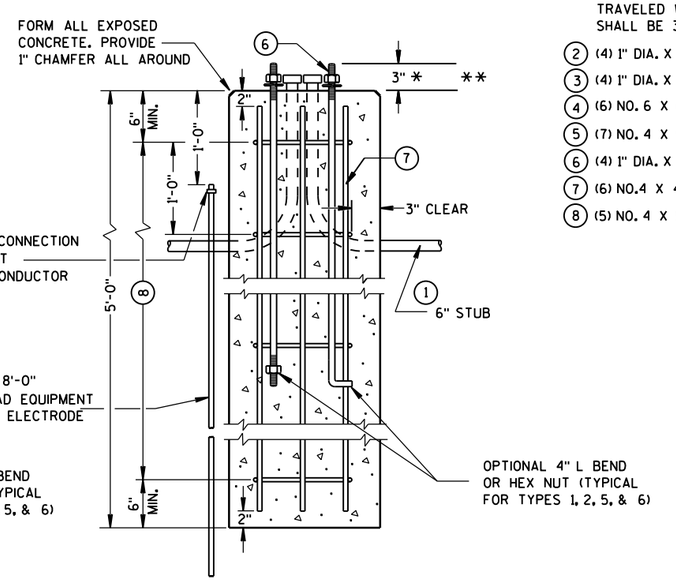


TYPE 1

HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5, & 6)



TYPE 2



TYPE 5 & 6

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 447
FHWA

6

S.D.D. 9 C 2-7

6

S.D.D. 9 C 2-7

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.

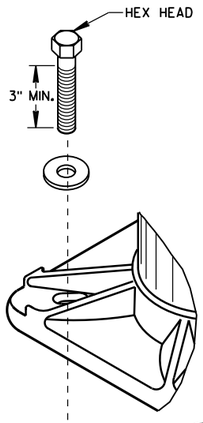
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

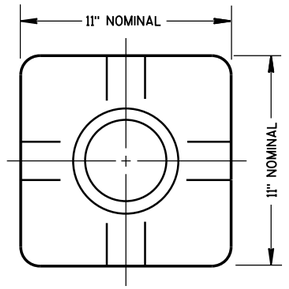
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

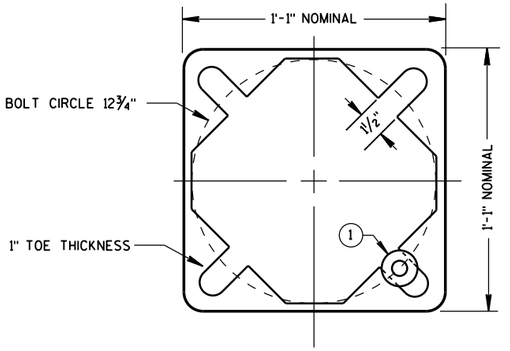
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

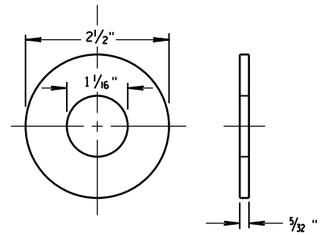




TOP VIEW
(PEDESTAL BASE)

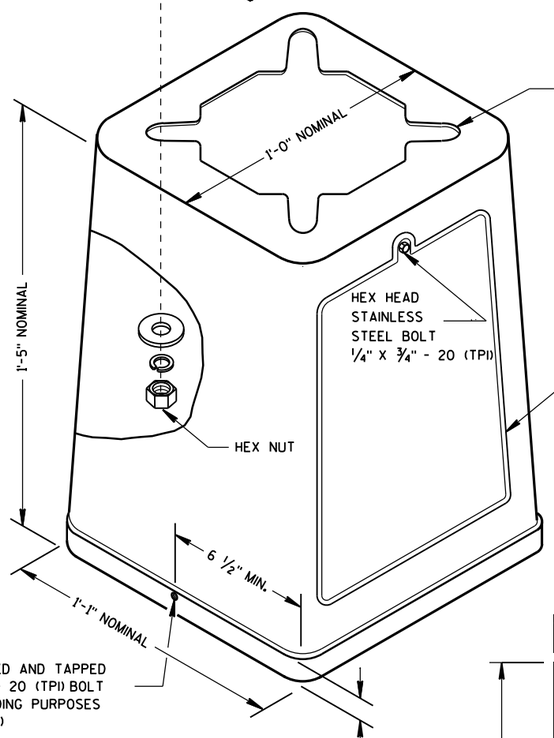


BOTTOM VIEW
(PEDESTAL BASE)

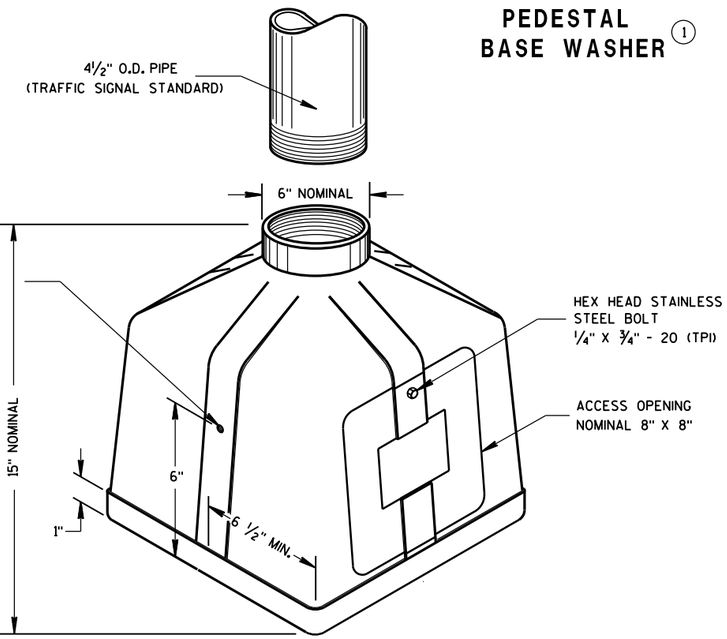


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

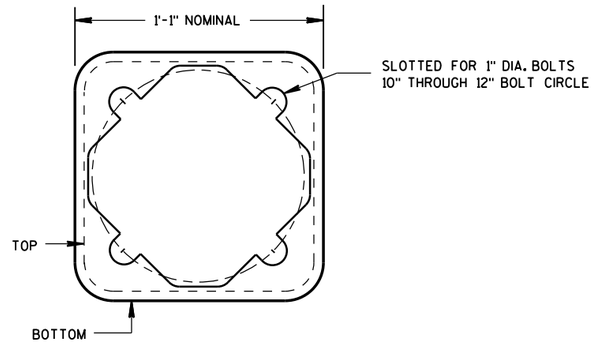


ISOMETRIC VIEW

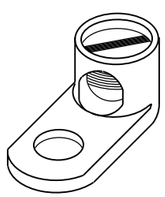


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

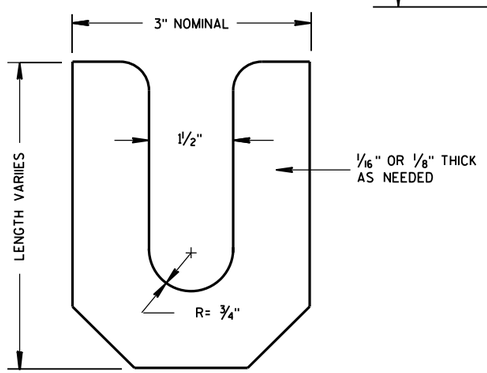


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

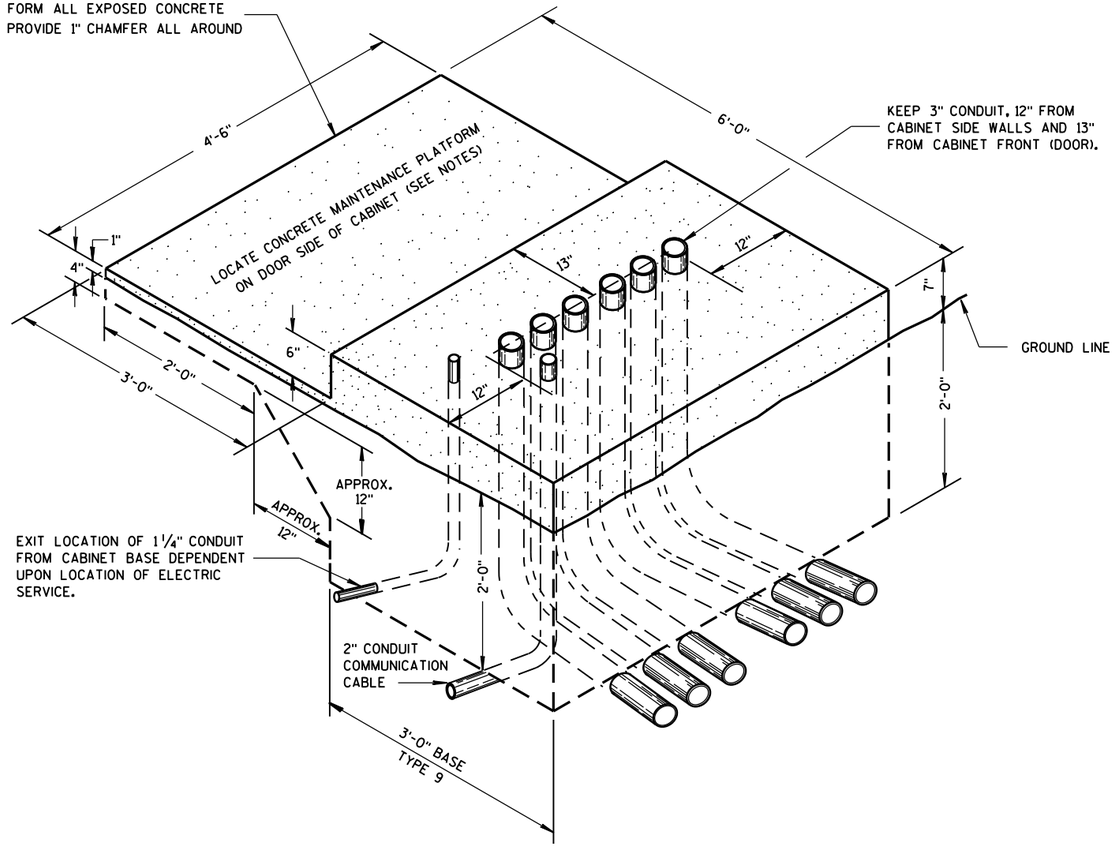
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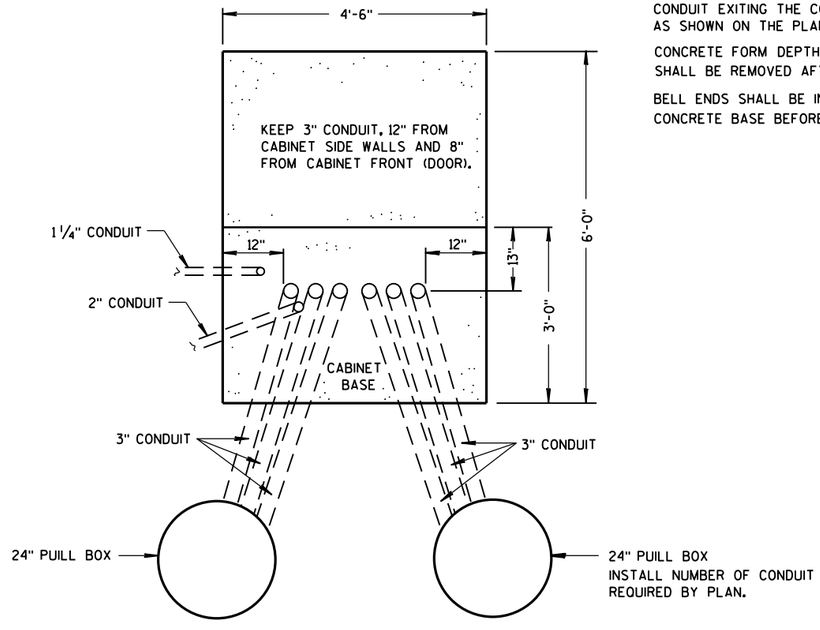
S.D.D. 9 C 3-4



ISOMETRIC VIEW

TYPE 9, SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

GENERAL NOTES

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

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

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.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

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. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

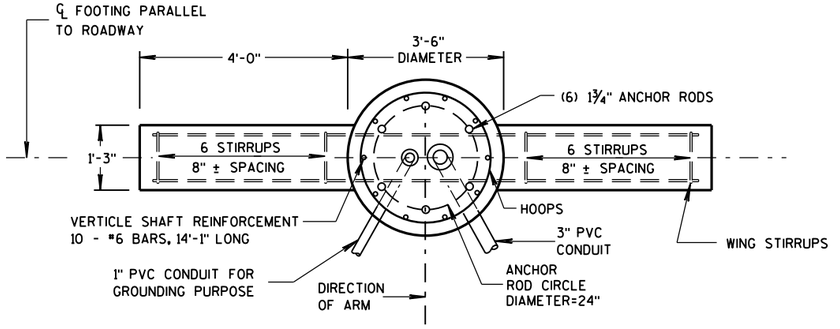
CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

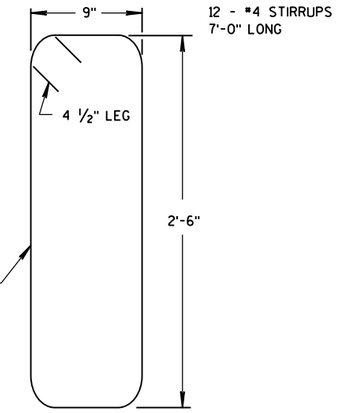
CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

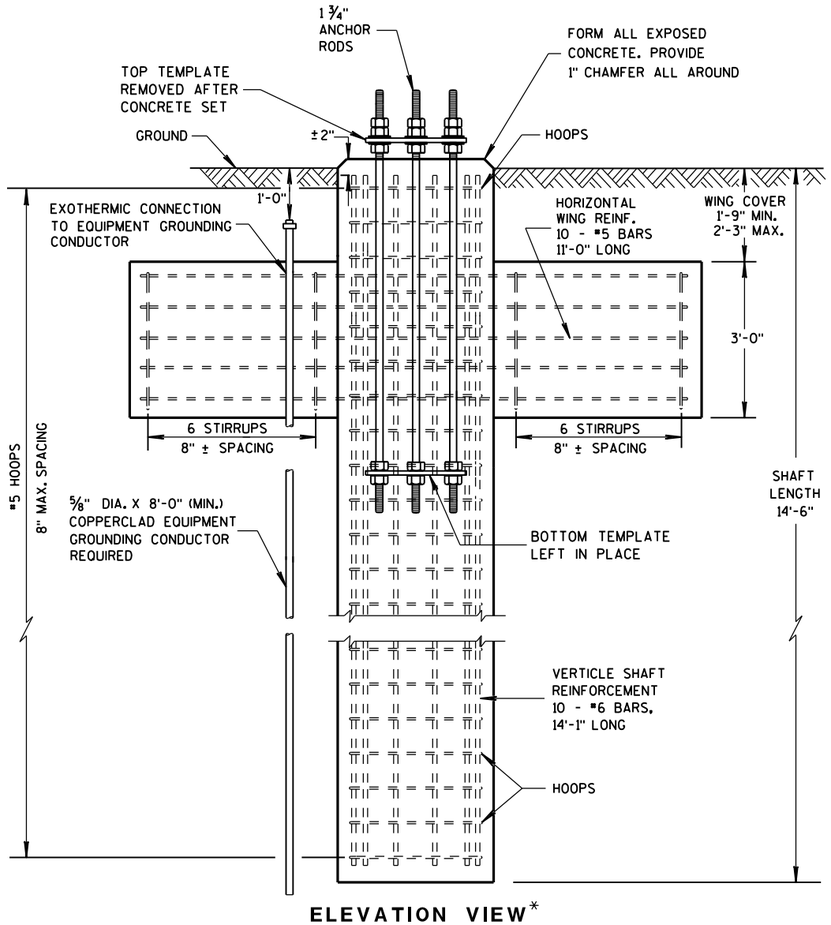
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PLAN VIEW

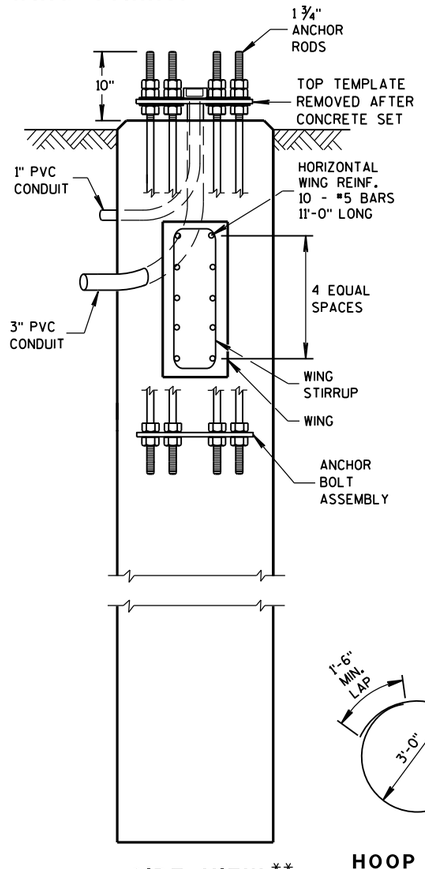


WING STIRRUP



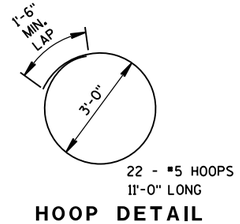
ELEVATION VIEW*

* CONDUITS ARE NOT SHOWN ON THIS VIEW FOR CLARITY



SIDE VIEW**

** HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY



HOOP DETAIL

GENERAL NOTES

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

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF THE UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BASES (SHAFT), BELOW THE WING, SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUNG THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZE AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASE SHALL BE 4½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF THE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS 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.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTOR FITTINGS, UL LISTED FOR ELECTRICAL USE, SHALL BE USED.

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 BE FURNISHED AND INSTALLED TO 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.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS.

THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVEL 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 THE WRITTEN APPROVAL OF THE ENGINEER.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

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 SPECIFICATIONS	fy=55,000 p.s.i.
TEMPLATES, ASTM A709 GRADE 36	fy=36,000 p.s.i.

(FOR TYPE 12 & 13 & OVER HEIGHT (OH) POLES)

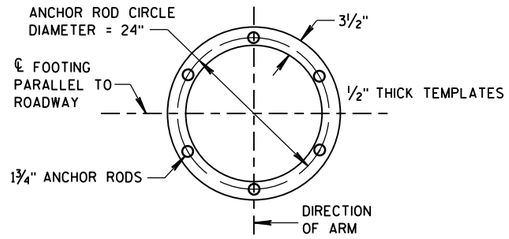
CONCRETE = 6.3 C.Y.
H.S. REINFORCEMENT = 635 LBS.

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.

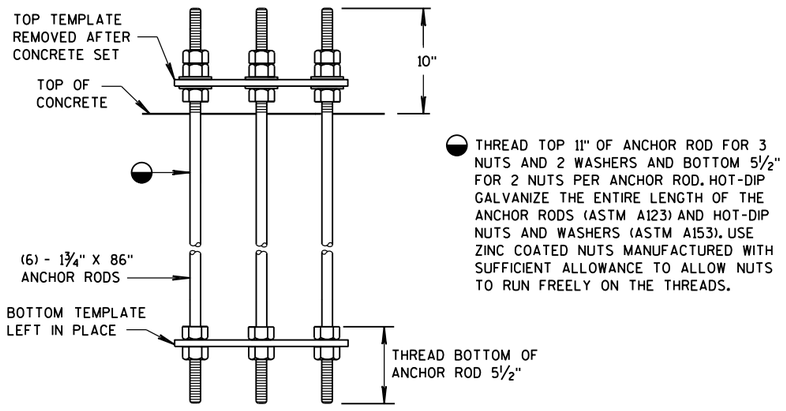
CONCRETE BASE TYPE 13

STATE OF WISCONSIN
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S.D.D. 9 C 12-9a

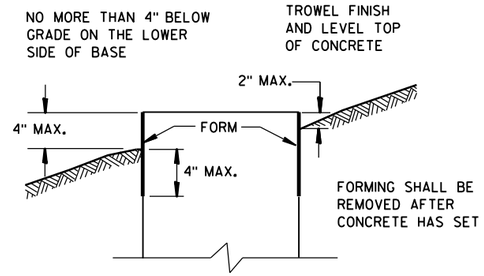


TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 13 ANCHOR ASSEMBLY



FORMING DETAIL

CONCRETE BASE TYPE 13	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2017 DATE FHWA	/S/ Ahmet Demirbilek STATE ELECTRICAL

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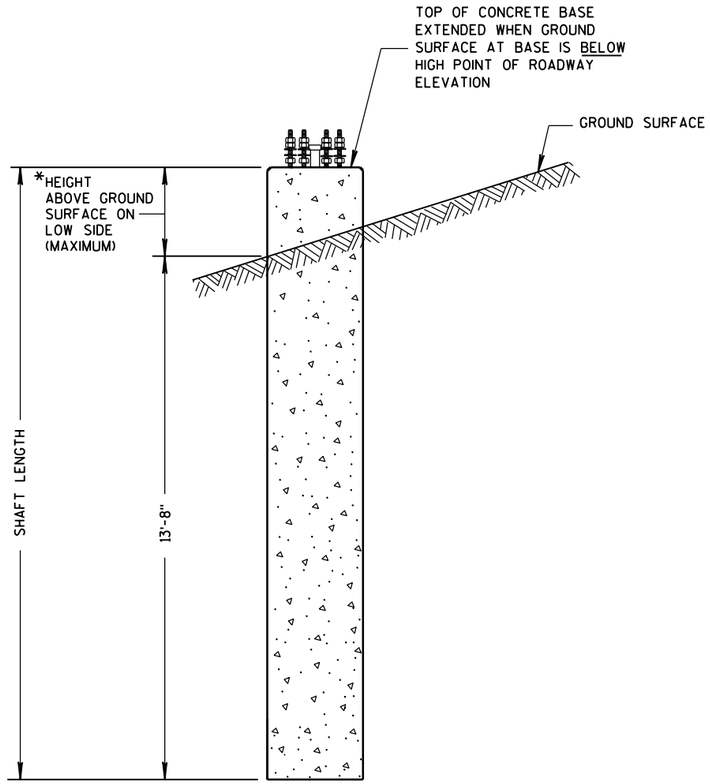
S.D.D. 9 C 12-9b

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S.D.D. 9 C 12-9b

REINFORCEMENT AND CONCRETE QUANTITIES ADJUSTED FOR EXTENDED TYPE 10 CONCRETE BASE

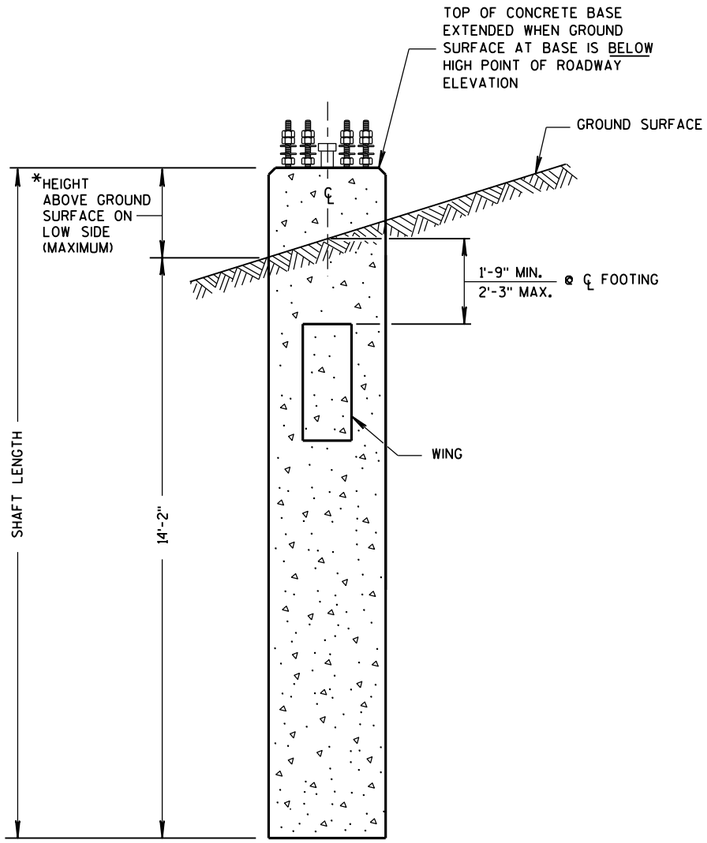
HEIGHT INCREASE REQUIRED	* HEIGHT ABOVE GROUND SURFACE ON LOW SIDE (MAXIMUM)	SHAFT LENGTH	LENGTH OF #6 VERTICAL REINF.	NO. OF #4 HOOPS	C.Y. OF CONCRETE	LBS. OF HOOP BAR STEEL	LBS. OF VERTICAL BAR STEEL
>0" TO 6"	10"	14'-6"	14'-1"	16	2.6	78	127
>6" TO 1'-0"	1'-4"	15'-0"	14'-7"	16	2.7	78	131
>1'-0" TO 1'-6"	1'-10"	15'-6"	15'-1"	17	2.8	83	136
>1'-6" TO 2'-0"	2'-4"	16'-0"	15'-7"	17	2.9	83	141



CONCRETE BASE TYPE 10 (EXTENDED)

REINFORCEMENT AND CONCRETE QUANTITIES ADJUSTED FOR EXTENDED TYPE 13 CONCRETE BASE

HEIGHT INCREASE REQUIRED	* HEIGHT ABOVE GROUND SURFACE ON LOW SIDE (MAXIMUM)	SHAFT LENGTH	LENGTH OF #6 VERTICAL REINF.	NO. OF #4 HOOPS	C.Y. OF CONCRETE	LBS. OF H.S. BAR STEEL
>0" TO 6"	10"	15'-0"	14'-7"	16	6.5	447
>6" TO 1'-0"	1'-4"	15'-6"	15'-1"	16	6.6	454
>1'-0" TO 1'-6"	1'-10"	16'-0"	15'-7"	17	6.8	469
>1'-6" TO 2'-0"	2'-4"	16'-6"	16'-1"	17	7.0	476



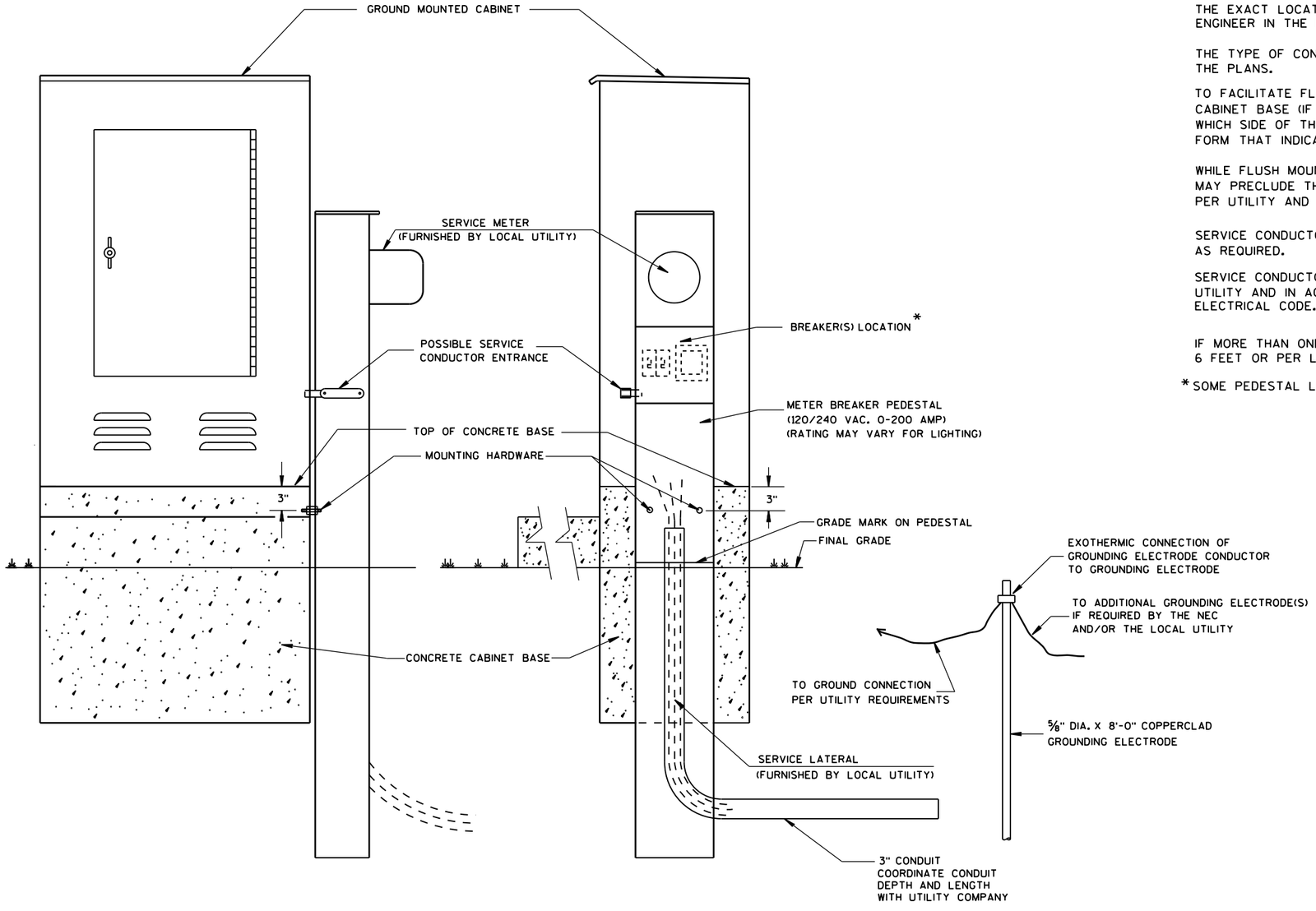
CONCRETE BASE TYPE 13 (EXTENDED)

CONCRETE BASE
TYPE 10 & TYPE 13 EXTENSION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-26-2013
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
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S.D.D. 9 C 13-2



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

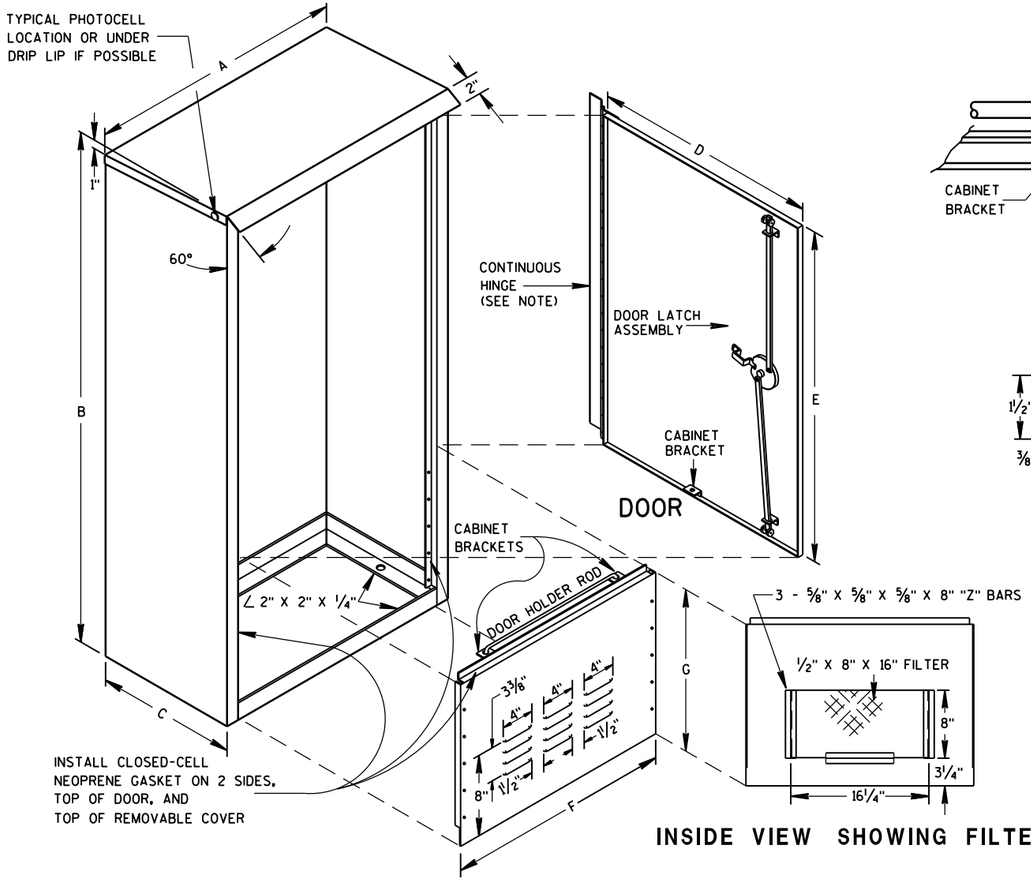
* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

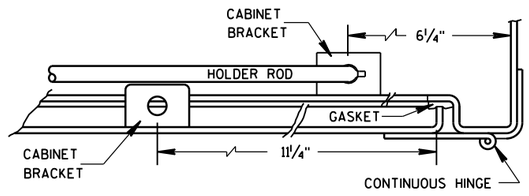
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Sept. 2014 — DATE
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S.D.D. 9 D 1-5

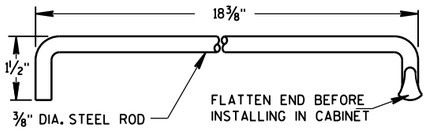


REMOVABLE COVER

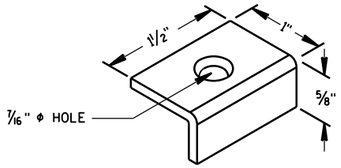
INSIDE VIEW SHOWING FILTER



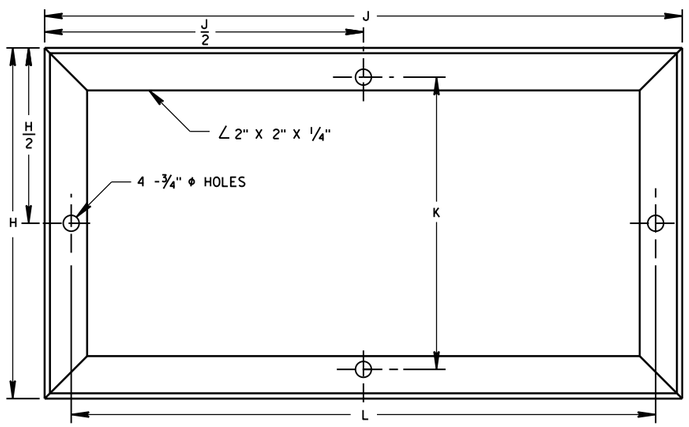
HINGE & DOOR HOLDER



HOLDER ROD



CABINET BRACKET



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2

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.

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

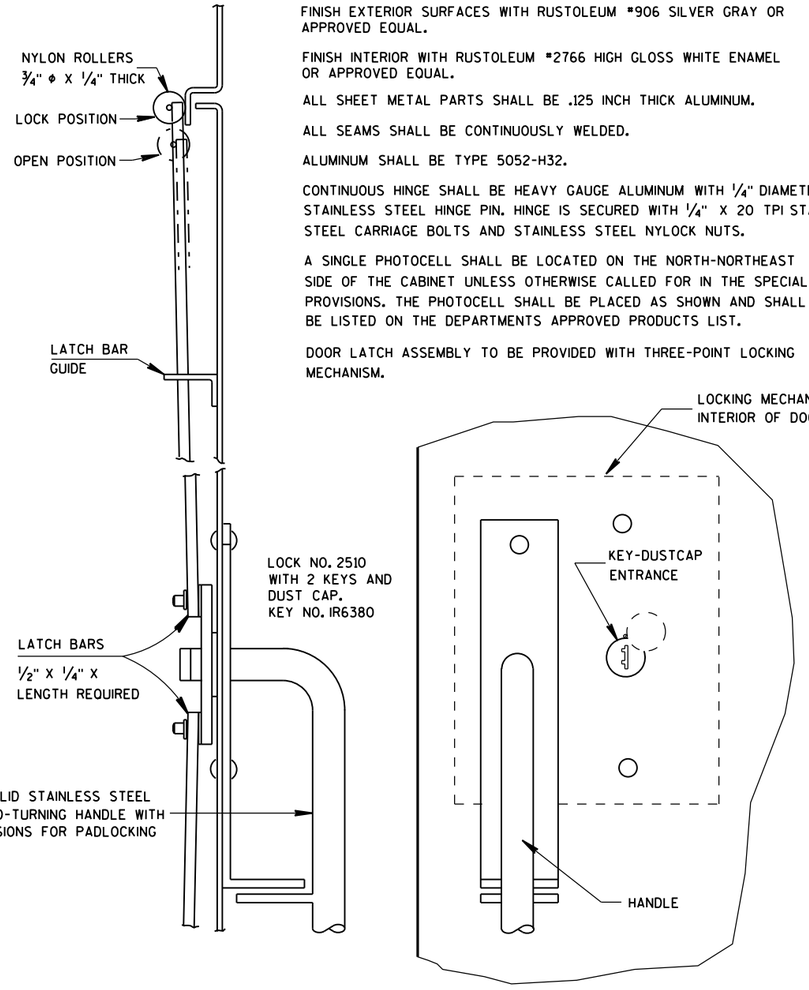
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST.

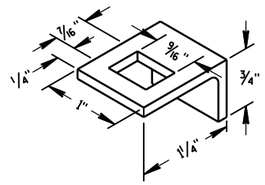
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

SIGNAL CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL 454

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S.D.D. 9 D 2-3

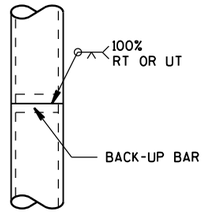
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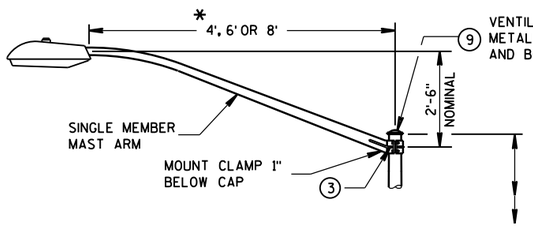
S.D.D. 9 D 2-3

FOR MANUFACTURERS USE ONLY

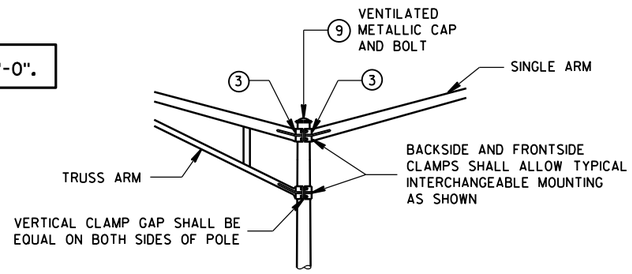
WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN/BRIDGE FOR VERIFICATION AND APPROVAL.

*RISE FOR 4' ARM SHALL BE 2'-0".





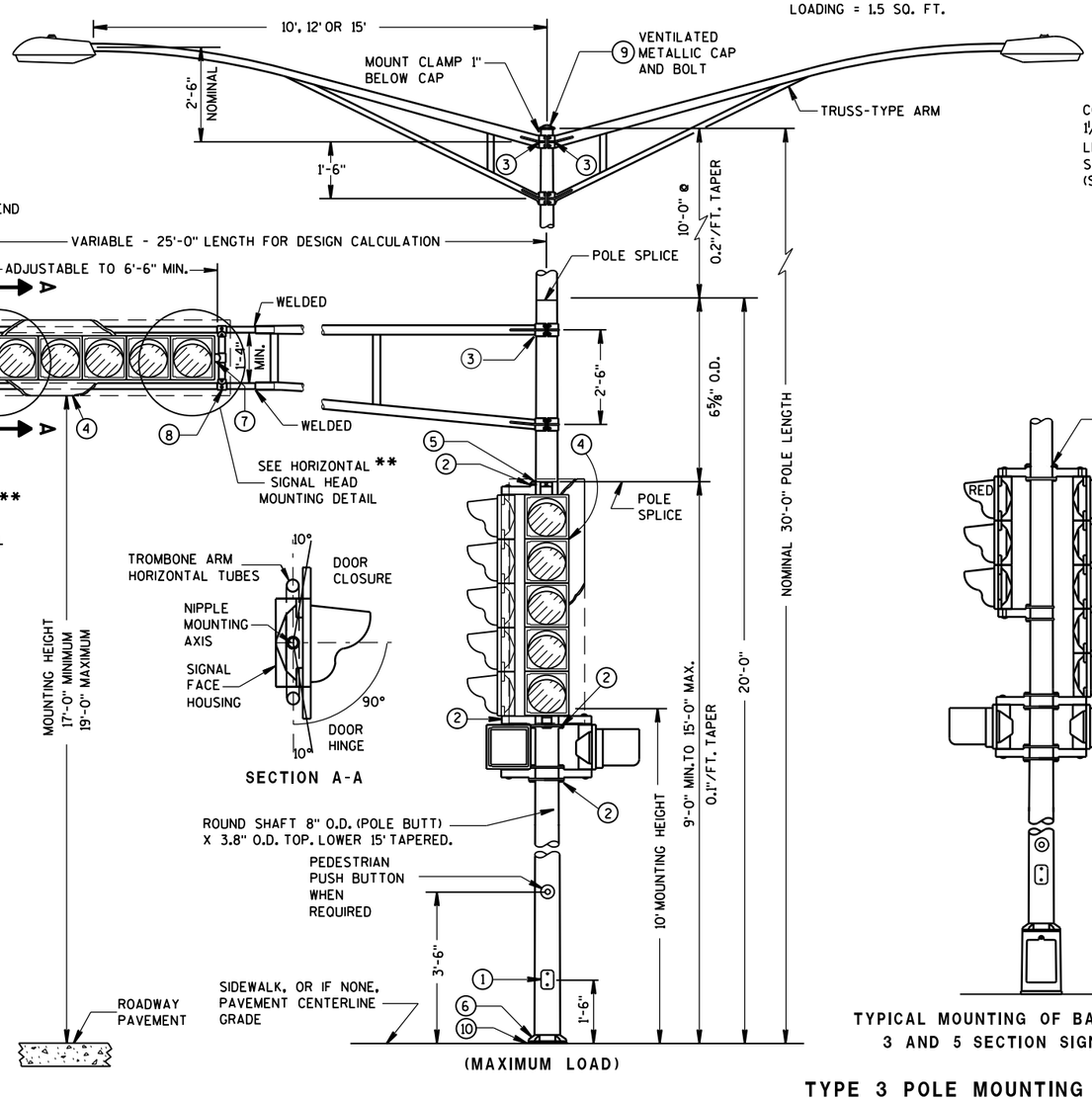
POLE SPLICE DETAIL

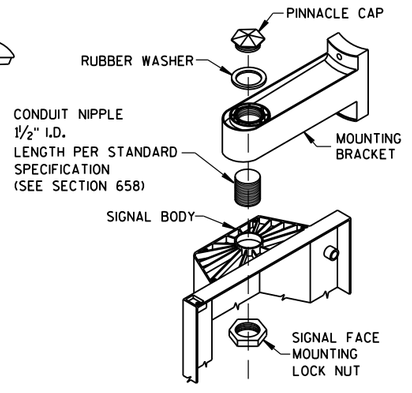


INTERCHANGEABLE MOUNTING DETAIL

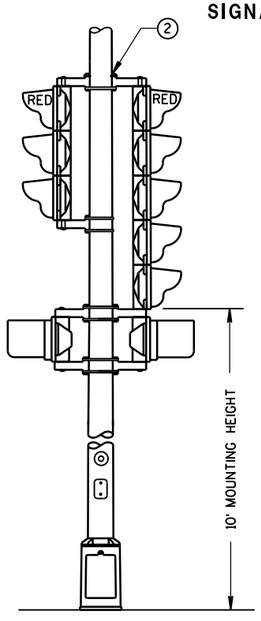
LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED AREA FOR WIND LOADING = 1.5 SQ. FT.

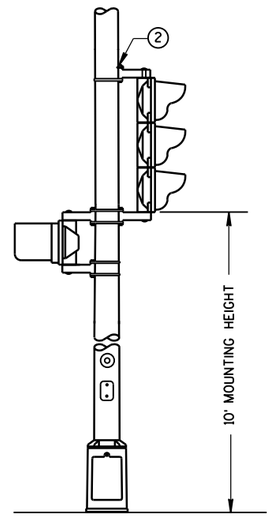




SIGNAL FACE MOUNTING DETAIL (BANDED)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE

GENERAL NOTES

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

ALL TYPE 3 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE/ROPE IN ACCORDANCE WITH STANDARD SPECIFICATION 652, SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS, MOUNT WITH CAP SCREWS AND BANDING. (SEE STANDARD SPECIFICATIONS - SEC. 658)

(3) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE 1 OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) TYPE 3 POLE CONFIGURATIONS SHALL BE MOUNTED DIRECTLY TO THEIR CONCRETE BASES.

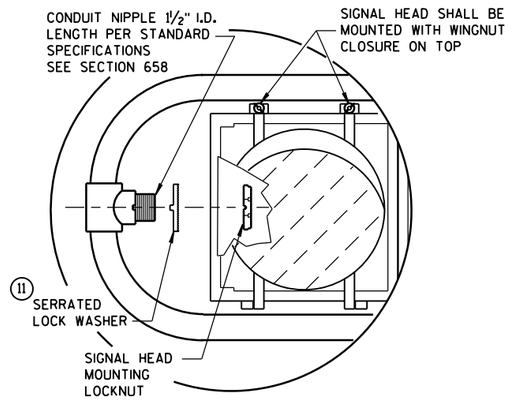
(7) MOUNTING BRACKET NIPPLES FOR THE SIGNAL FACE(S) SHALL BE 2 INCHES IN LENGTH AND 1½ INCHES IN DIAMETER. (SEE STANDARD SPECIFICATION - SECTION 658)

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (1/4 " X ¾" -20 TPI, STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.



HORIZONTAL SIGNAL HEAD MOUNTING DETAIL **

** SIGNAL HEAD ATTACHMENT ALSO APPLYS TO MOUNTING AT CROSS BAR

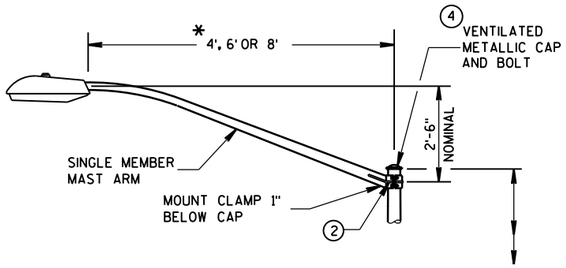
TYPE 3 POLE MOUNTING CONFIGURATION

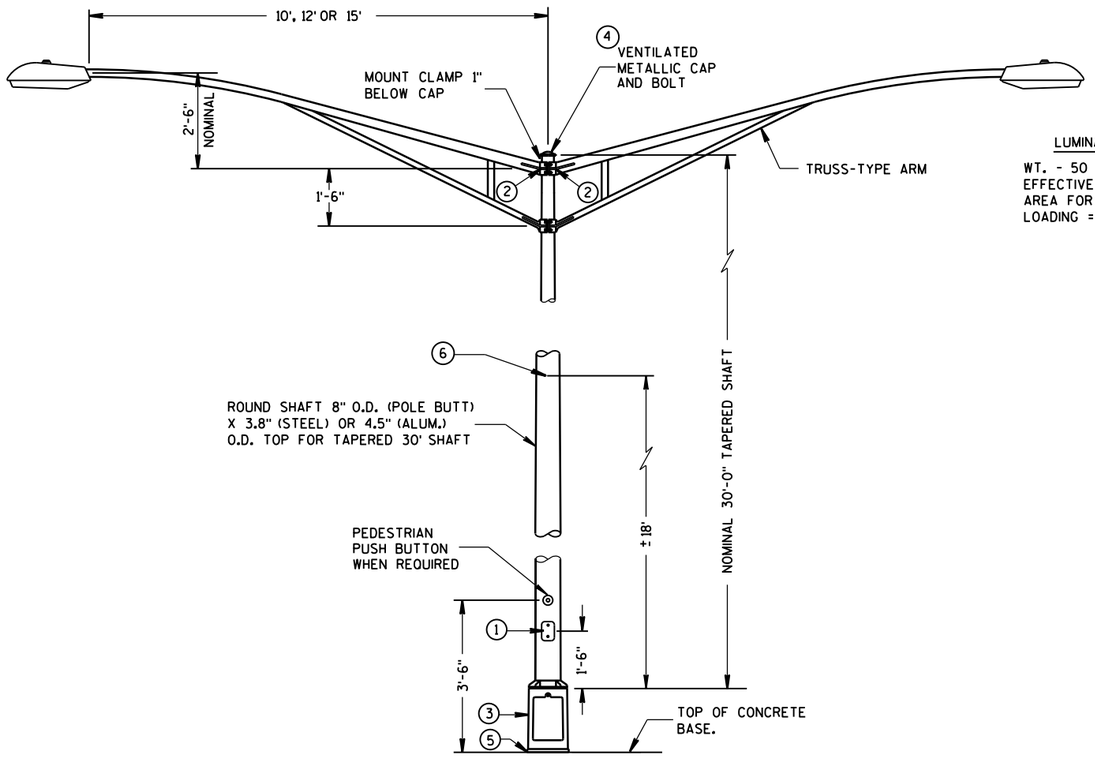
POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 455

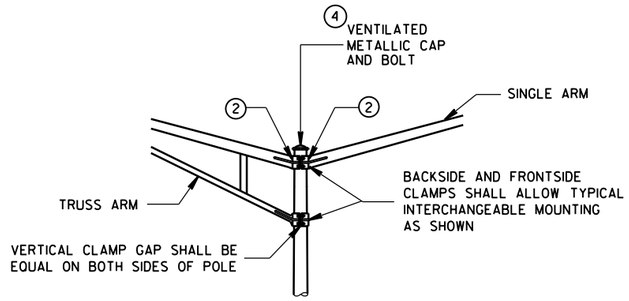
6
S.D.D. 9 E 1-14b

*RISE FOR 4' ARM SHALL BE 2'-0".





TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED
AREA FOR WIND
LOADING = 1.5 SQ. FT.

GENERAL NOTES

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

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.188".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONEECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(6) INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

6

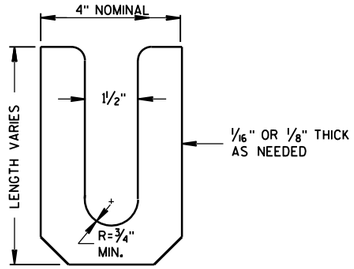
S.D.D. 9 E 1-14d

POLE MONTINGS FOR
LIGHTING UNITS, TYPE 5
(30 FEET)

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DEPARTMENT OF TRANSPOI

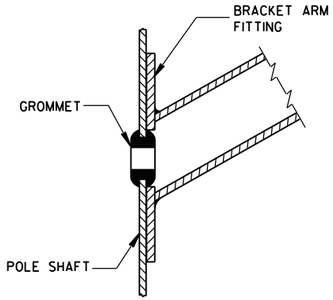
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S.D.D. 9 E 1-14d

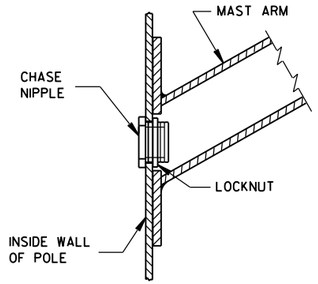


LEVELING SHIM (13)

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.

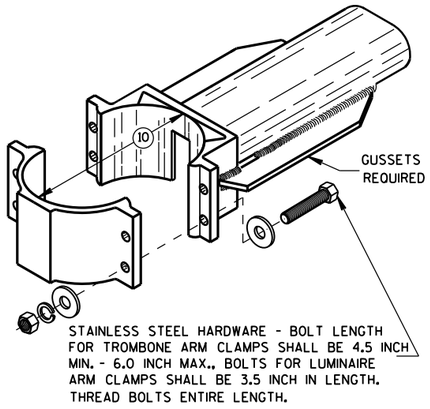
(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

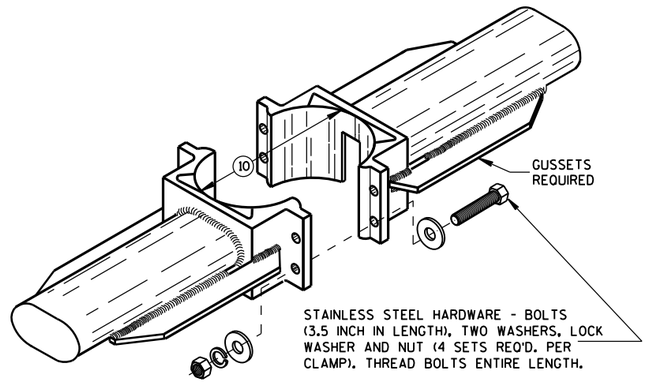
(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(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.

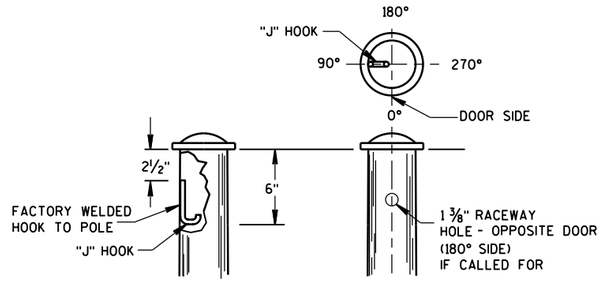
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



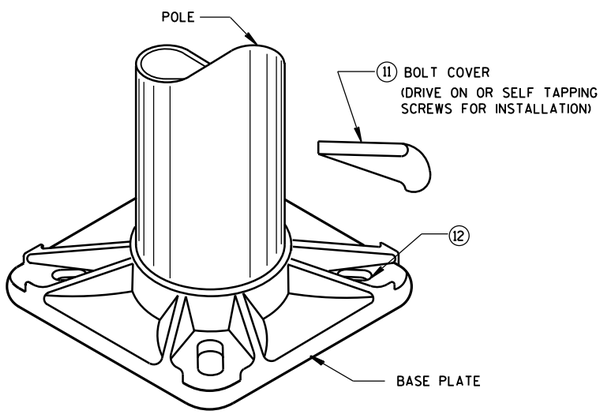
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



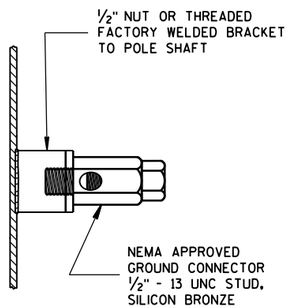
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

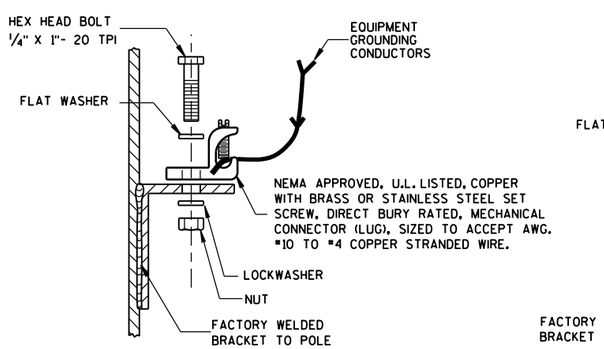


TYPICAL "J" HOOK LOCATION



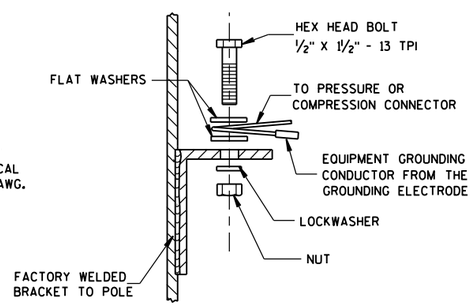
BASE PLATE





TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



HARDWARE DETAILS FOR POLE MOUNTINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

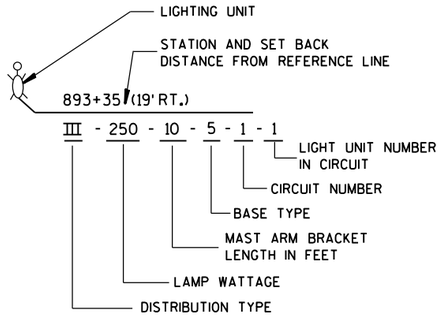
APPROVED
Feb. 2015
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

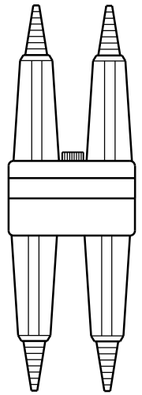
FHWA

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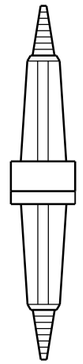
S.D.D. 9 E 1-14g



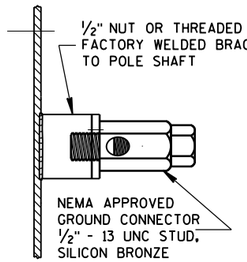
LIGHTING UNIT CODE
(TYPICAL)

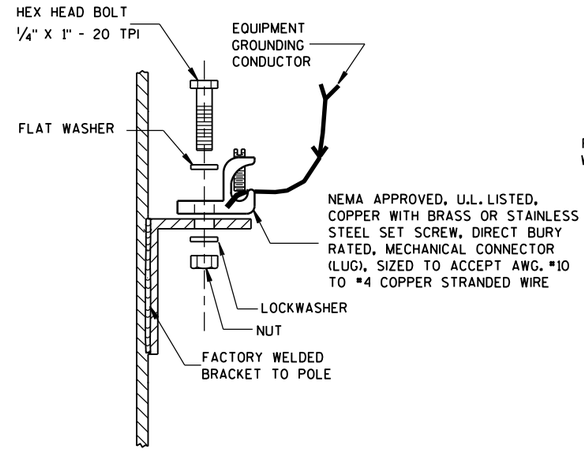


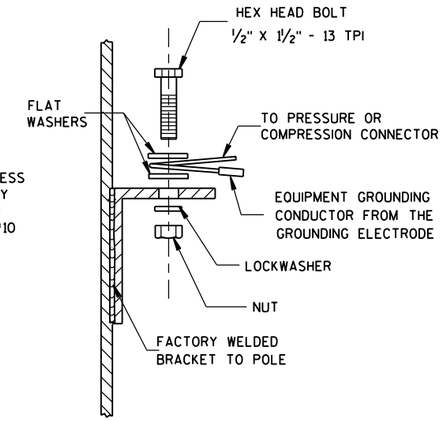
DETAIL "A"
BREAKAWY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



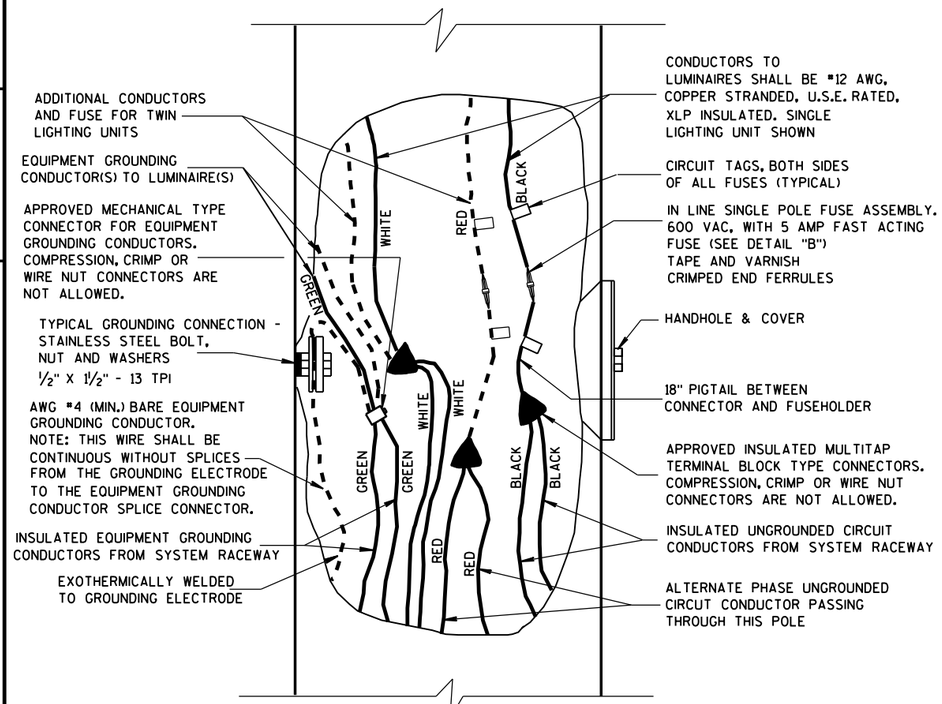
DETAIL "B"
BREAKAWY SINGLE POLE WITH WATERPROOF INSULATING BOOT



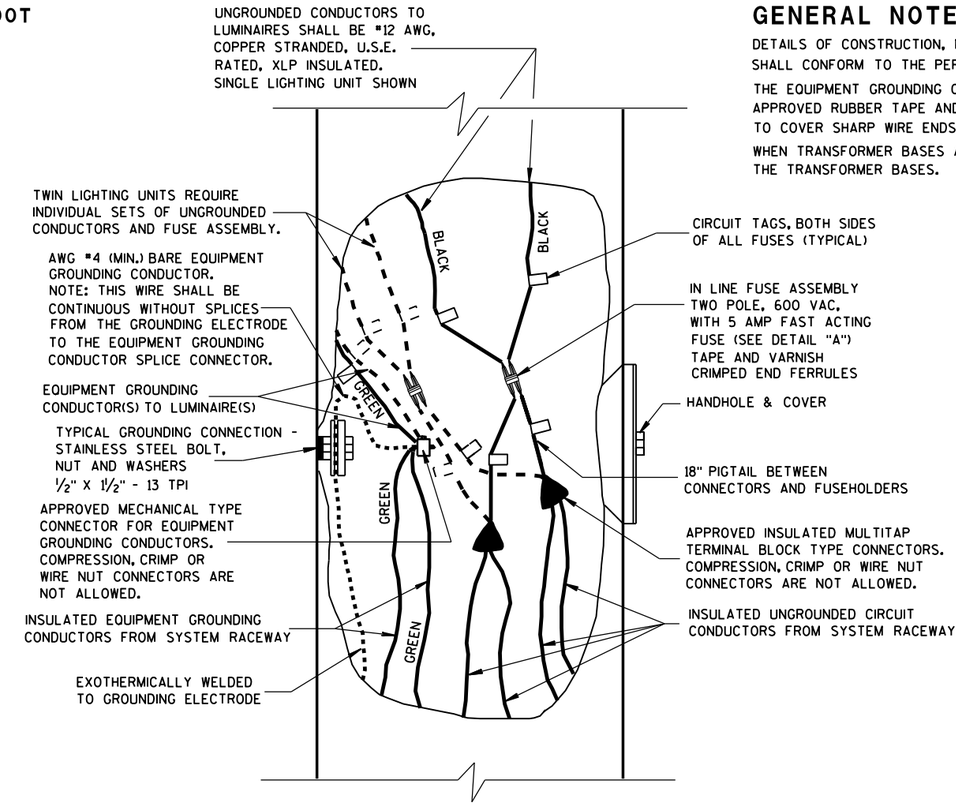




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



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.

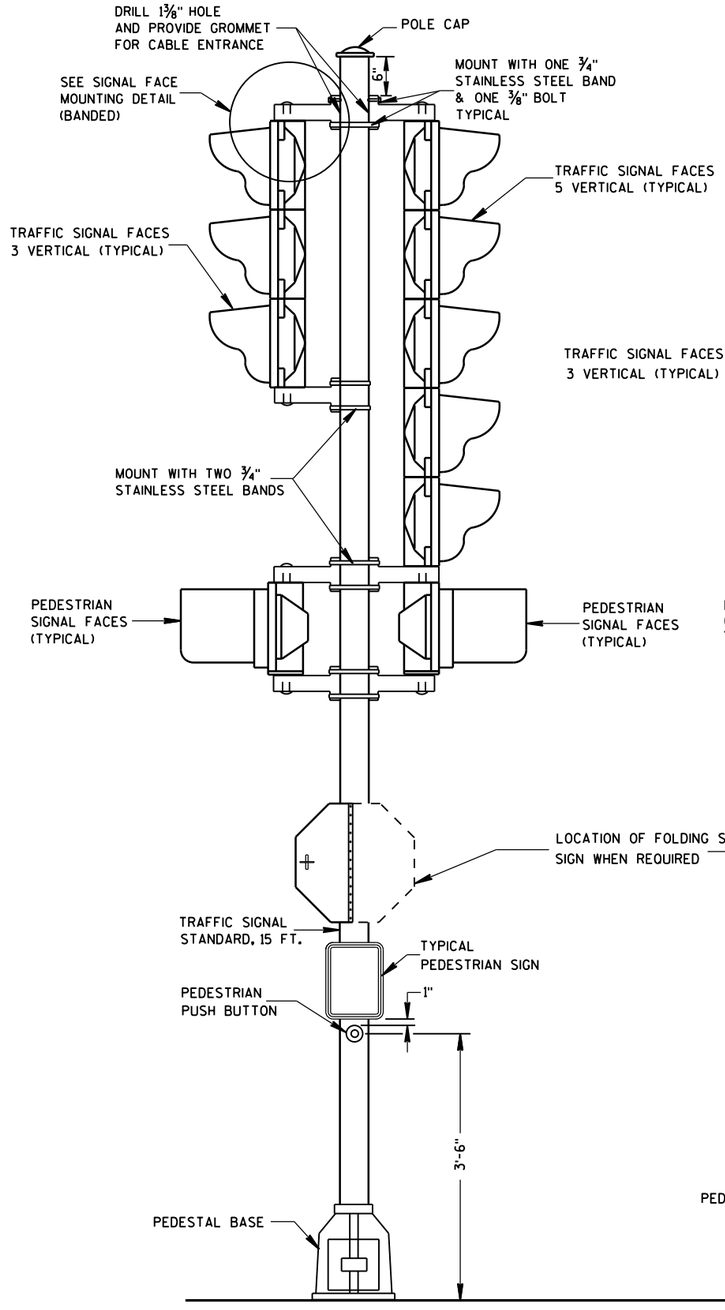
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

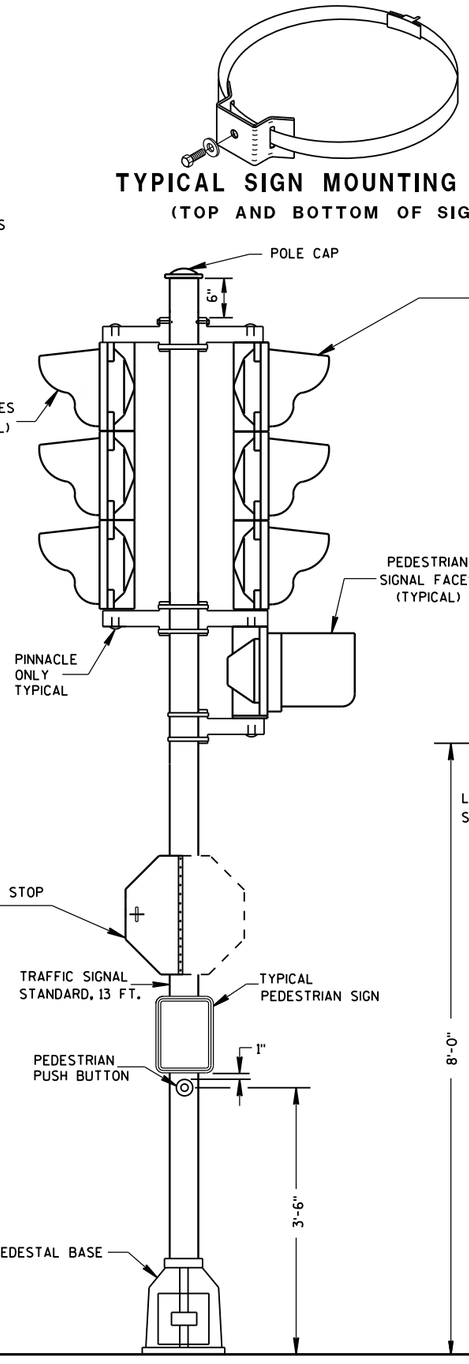
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 E 3-5

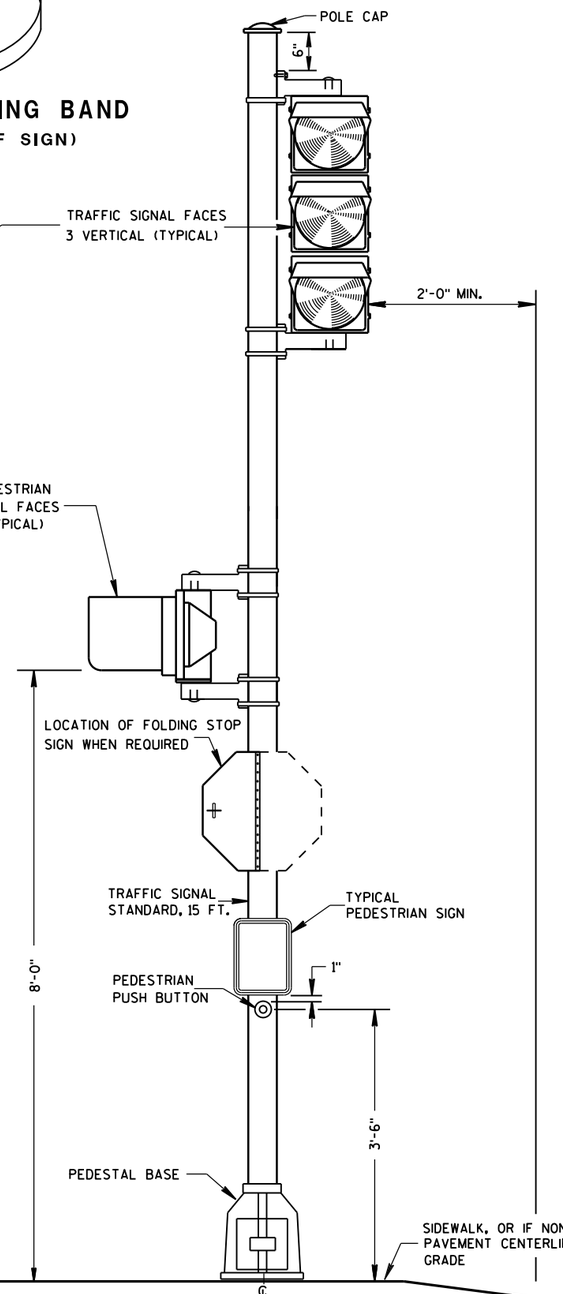


TRAFFIC SIGNAL STANDARD-15 FT.



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.

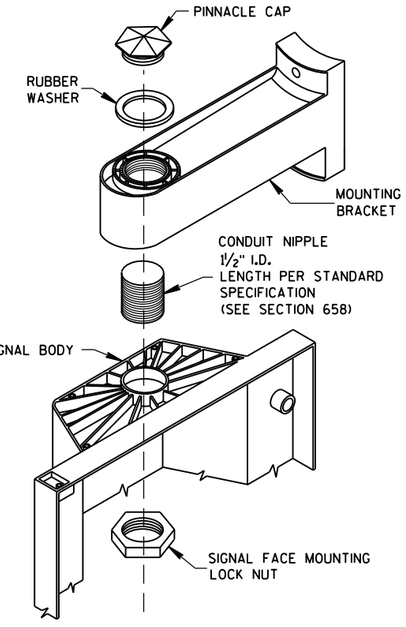
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

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)

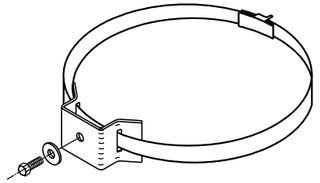
TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

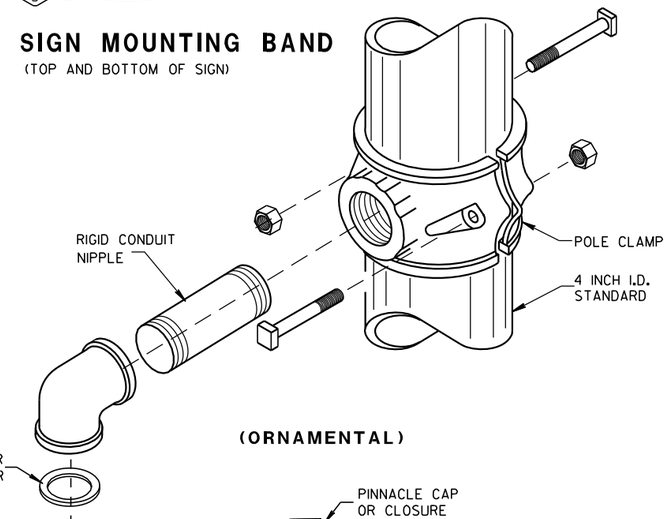
APPROVED
2/28/2013 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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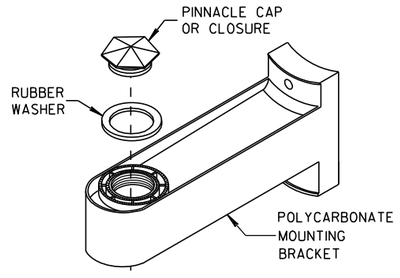
S.D.D. 9 E 6-5



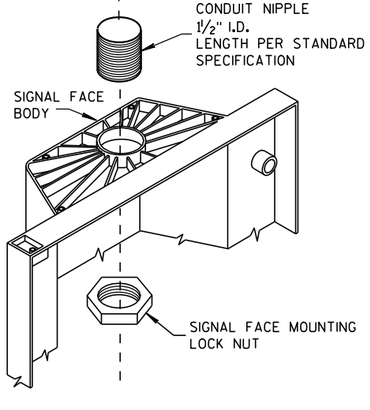
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



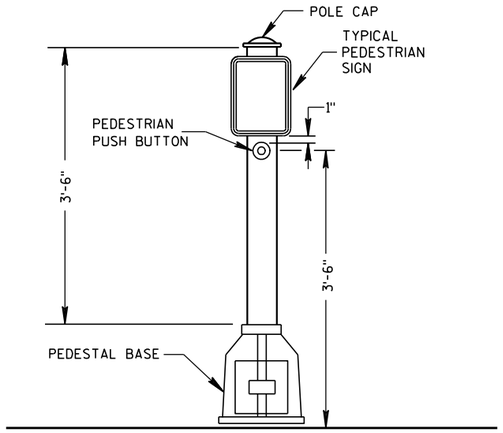
(ORNAMENTAL)



(BANDED)



SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING

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.

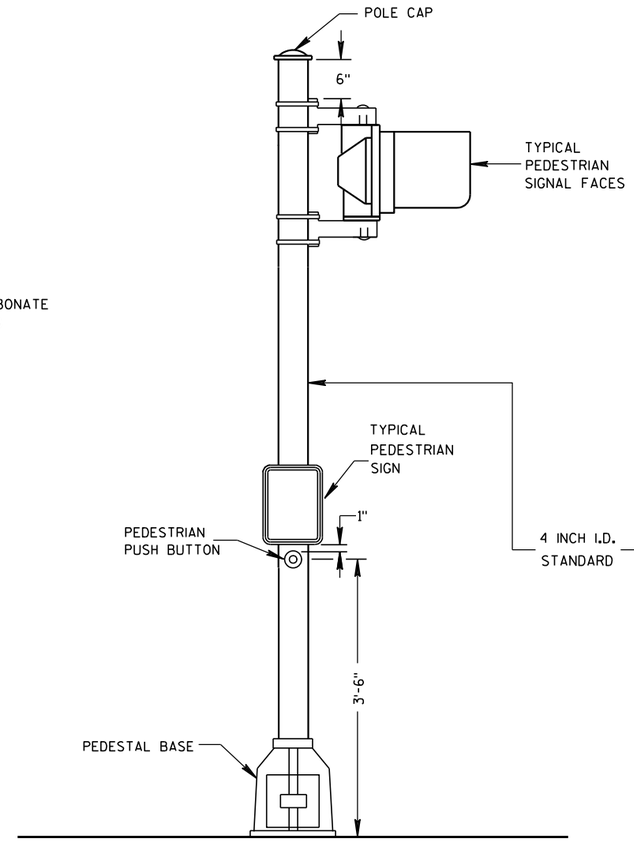
POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

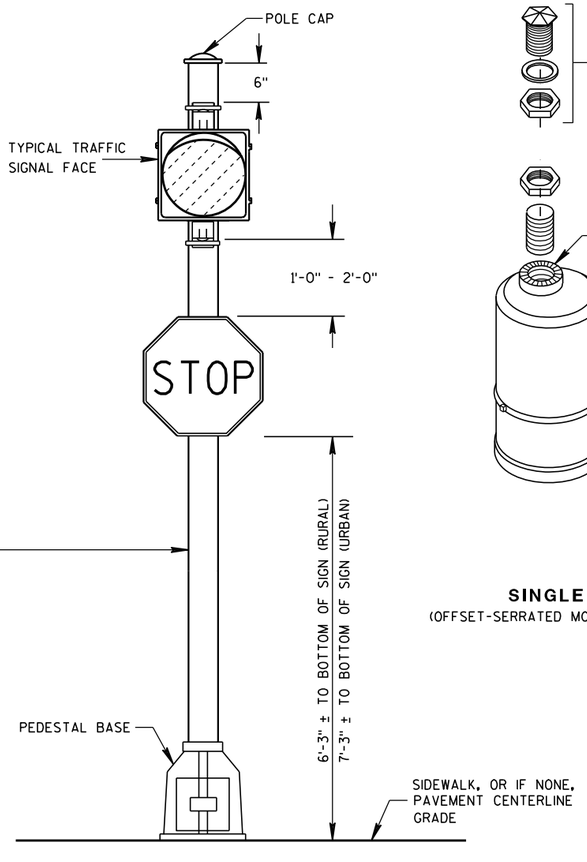
MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE DISTRICT TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

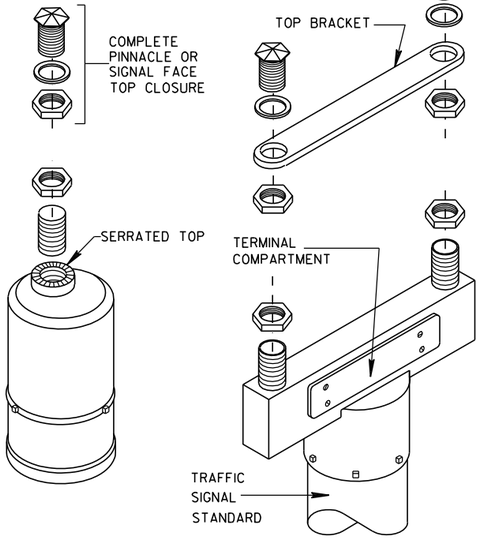
FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



PEDESTRIAN FACE STANDARD-10 FT.
(WALK-DON'T WALK)



STANDARD FLASHER.
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED



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

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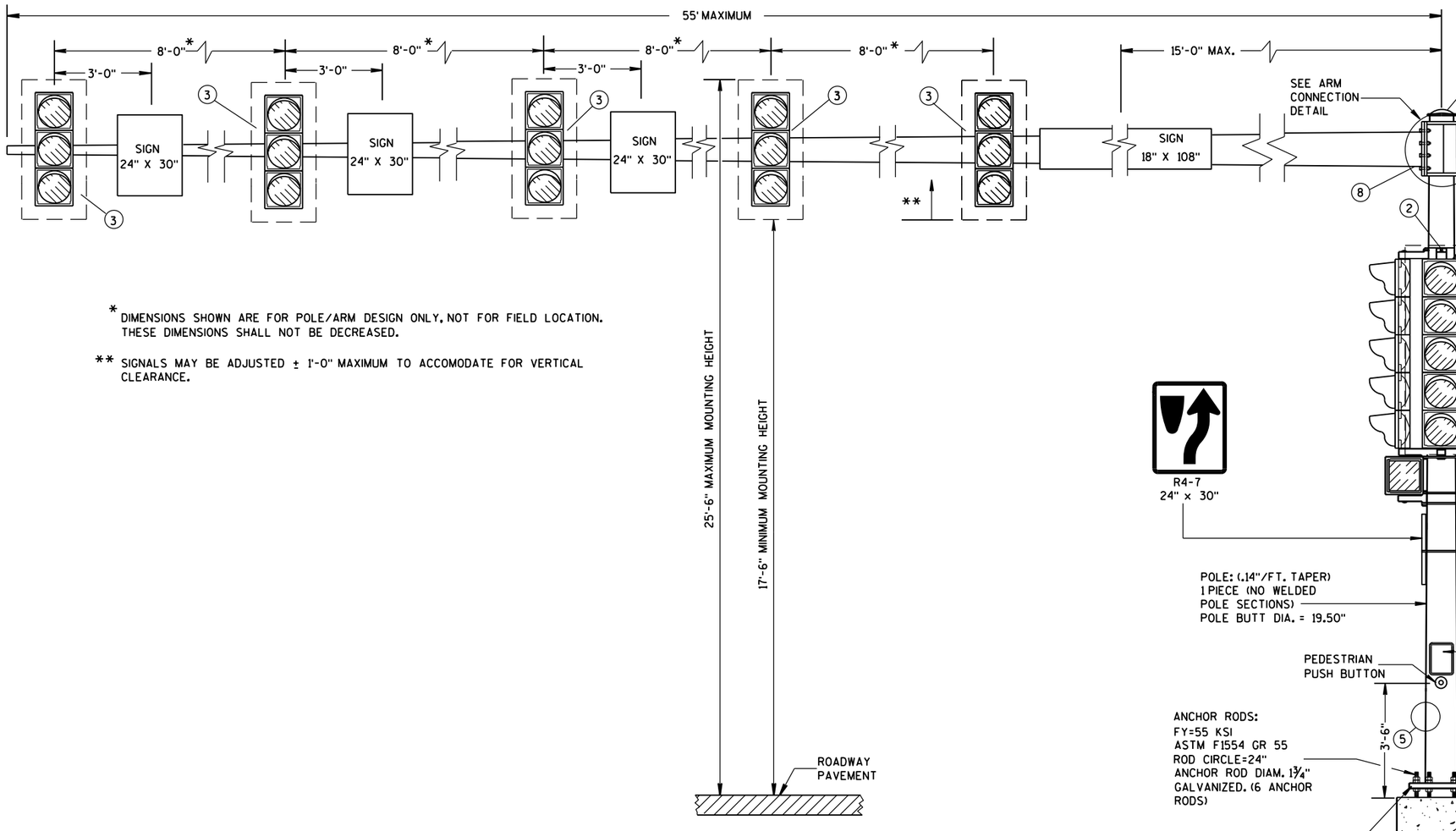
FHWA

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S.D.D. 9 E 7-5

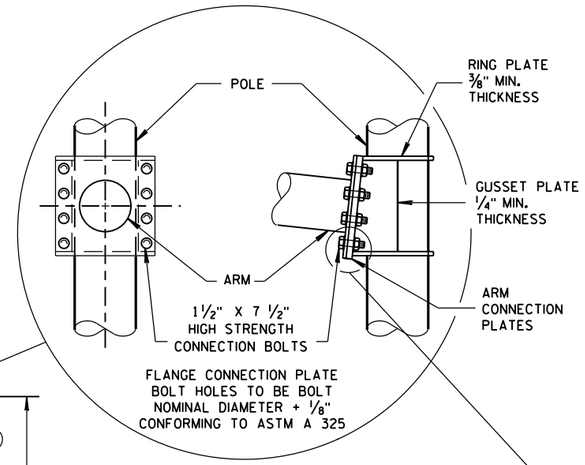
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S.D.D. 9 E 7-5

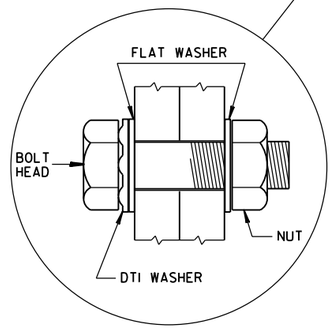


* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

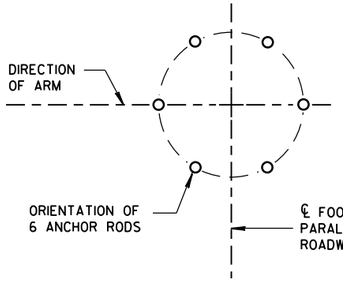
** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.



8 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL



ANCHOR ROD LOCATION

(MAXIMUM LOAD)

TYPE 12 POLE 35'- 55' MONOTUBE ARM

TYPE 12 POLE 35' - 55' MONOTUBE ARM
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED May, 2015 — DATE /S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 E 8-8c

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.

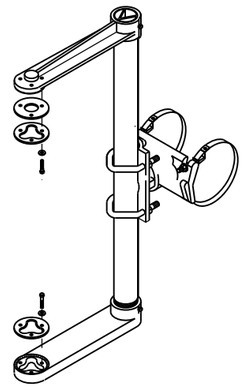
(6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

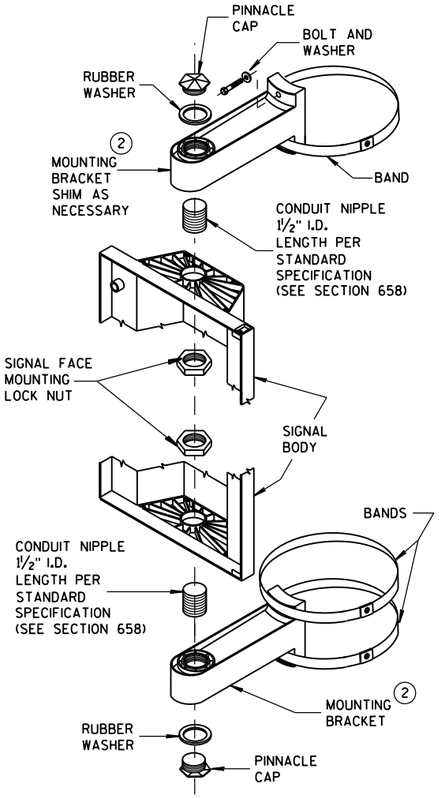
MOUNTING HEIGHT SHALL BE 6'-0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

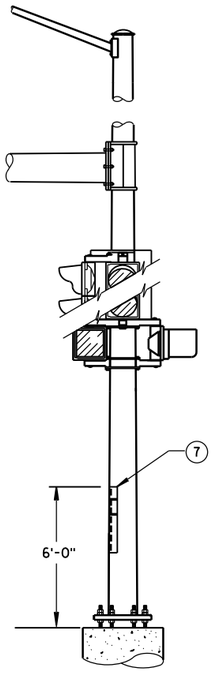


SIGNAL FACE MOUNTING BRACKET
DETAIL FOR MONOTUBE ARM

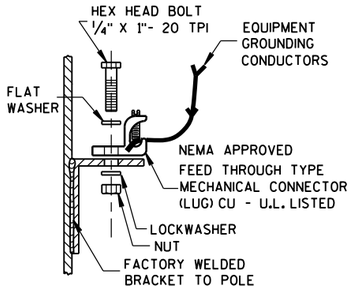
(MOUNT PER MANUFACTURER'S RECOMMENDATION)



SIGNAL FACE
VERTICAL MOUNTING DETAIL

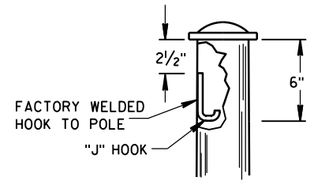


STRUCTURAL IDENTIFICATION
PLAQUE PLACEMENT



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
May 2016
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

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S.D.D. 9 E 8-8e

GENERAL NOTES

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

OVER HEIGHT POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15-FOOT TO 30-FOOT.

OVER HEIGHT POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35-FOOT TO 55-FOOT.

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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 LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNAL 2015 1ST EDITION (INCLUDING 2017 INTERIM REVISIONS) 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.
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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.

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(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.

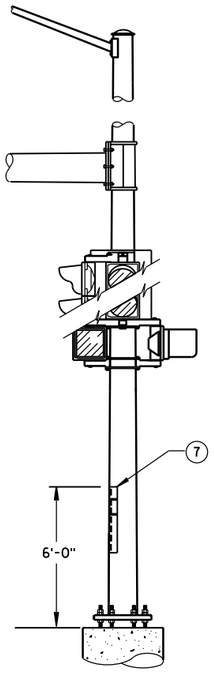
(6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

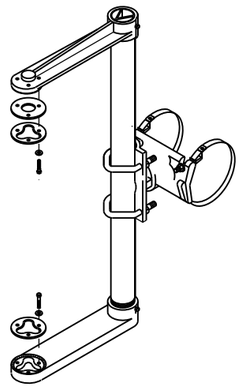
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

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.

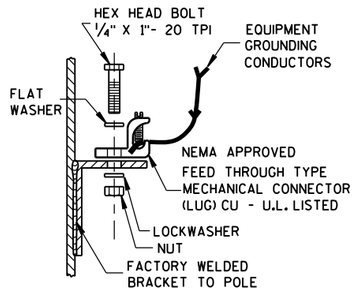


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



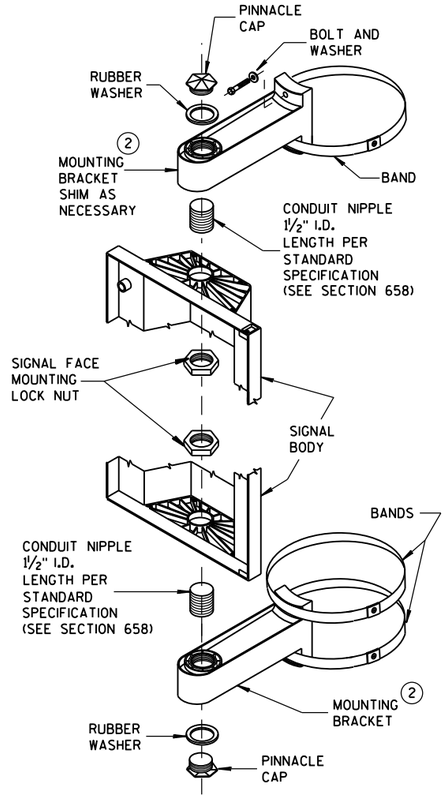
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANUFACTURER'S RECOMMENDATION)

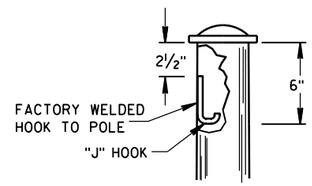


TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



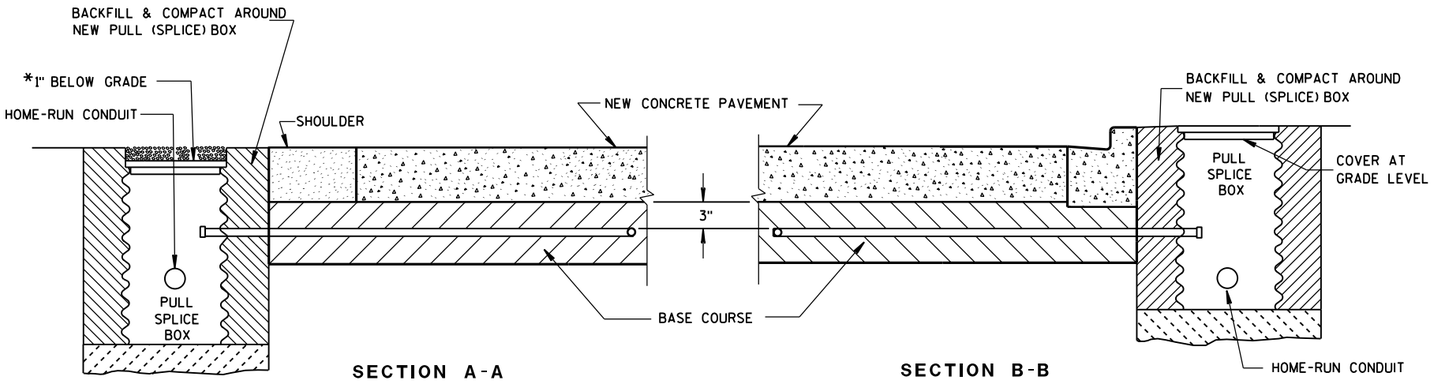
"J" HOOK WIRE SUPPORT (6)

GENERAL NOTES AND HARDWARE DETAILS FOR OVER HEIGHT TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 E 12-1e



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) 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.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION 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 (SPLICE) 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.

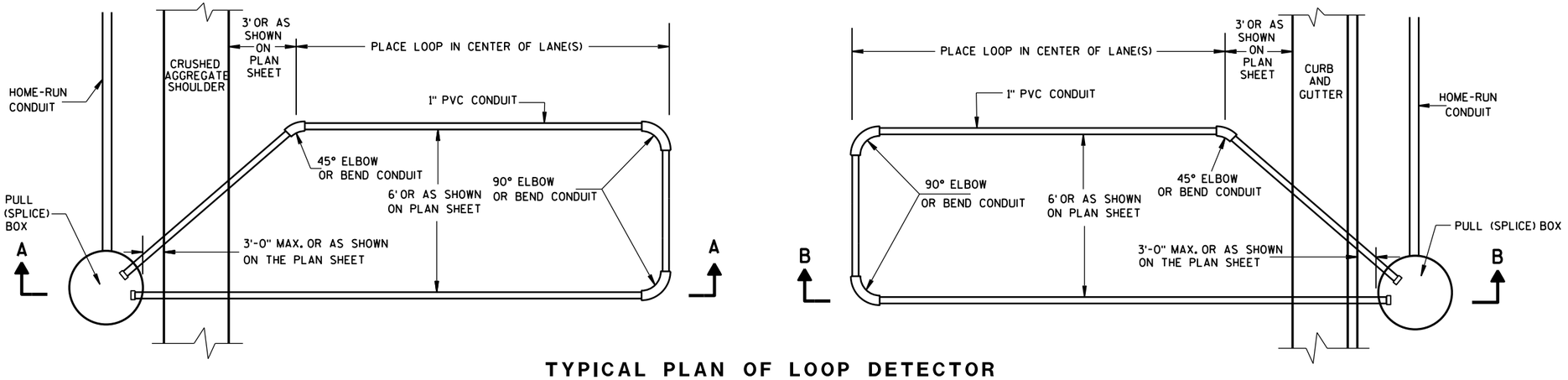
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICE CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE, SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 18" OR 24" PULL (SPLICE) BOX

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

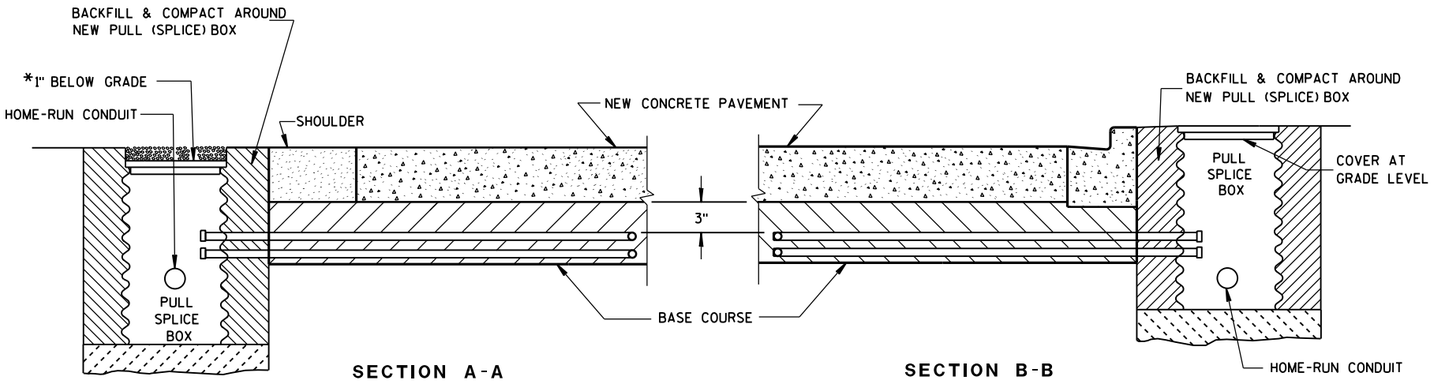
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 F 15-4a

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S.D.D. 9 F 15-4a



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) 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.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION 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 (SPLICE) 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.

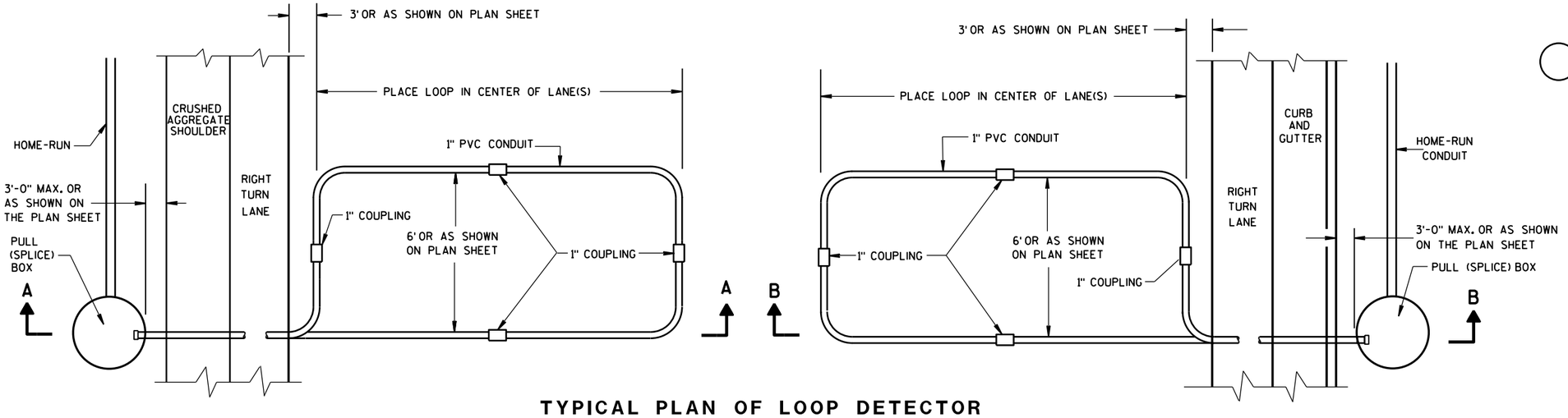
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

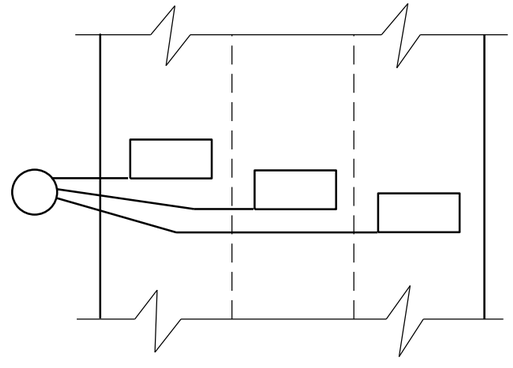
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



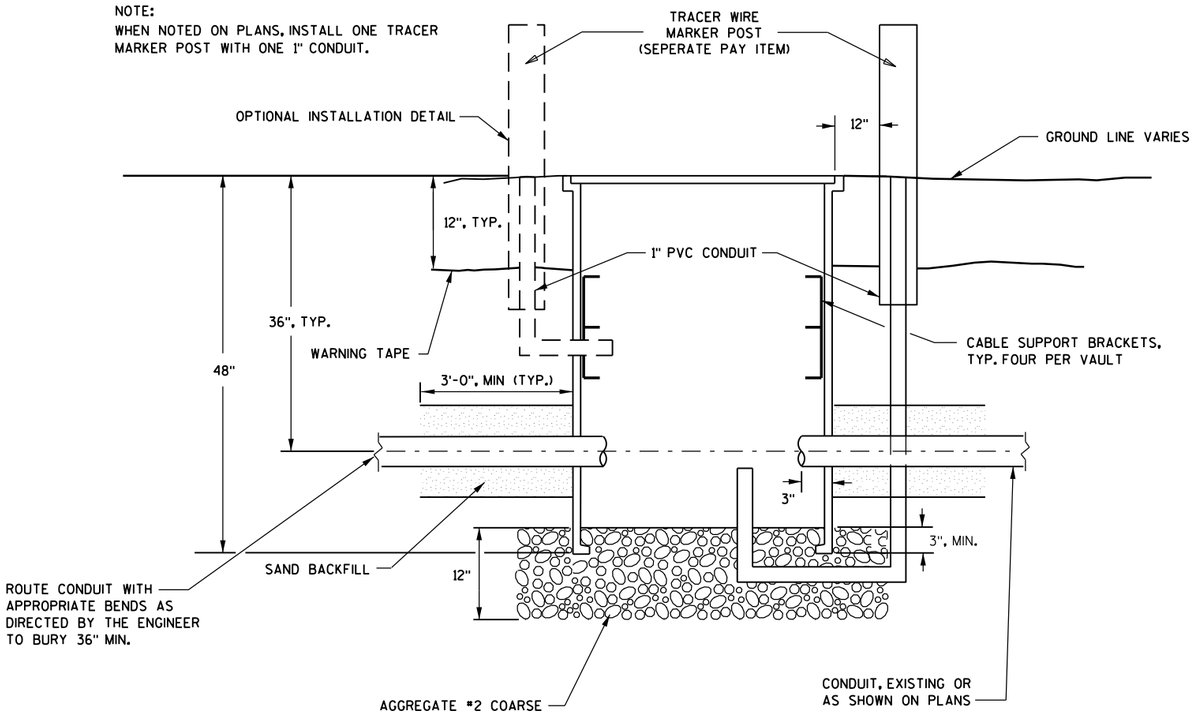
TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



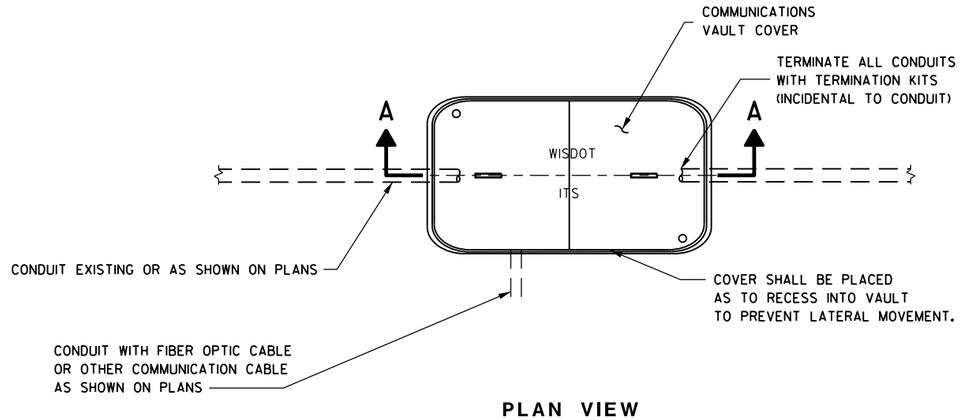
MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED Sept. 2014 — DATE /S/ Ahmet Demirbilek — STATE ELECTRICAL FHWA

NOTE:
WHEN NOTED ON PLANS, INSTALL ONE TRACER MARKER POST WITH ONE 1" CONDUIT.



SECTION A-A



PLAN VIEW

GENERAL NOTES

PROVIDE VAULT WITH OPEN BASE.

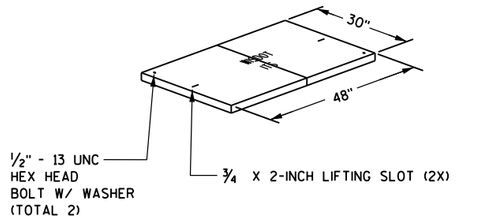
COVER SHALL HAVE A MINIMUM DESIGN LOAD OF 15,000 LBS AND SHALL LOCK.

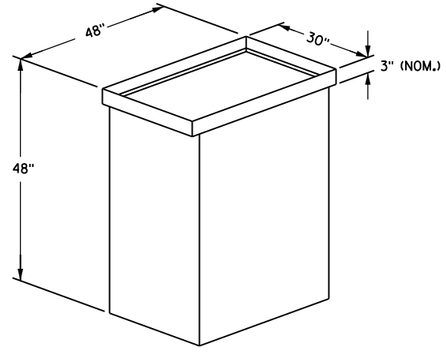
ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION, OR PUNCH DRIVEN AT TIME OF PLACEMENT.

VAULTS SHALL BE OF ONE-PIECE CONSTRUCTION. TWO-PIECE/STACKABLE VAULTS WILL NOT BE PERMITTED.

FIELD PLACEMENT OF COMMUNICATIONS VAULTS SHALL BE AS DIRECTED BY THE ENGINEER.

FIBER TRACER MARKER POSTS SHALL BE CONSTRUCTED WITH HIGH-IMPACT PLASTIC MATERIAL WHICH IS FADE RESISTANT AND UV STABLE. ALL HARDWARE SHALL BE STAINLESS STEEL AND CONTAIN A MINIMUM OF FIVE STANDARD TERMINALS.





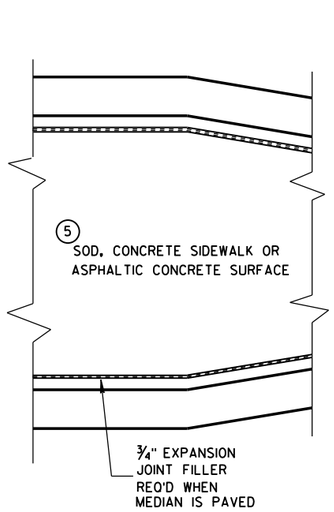
ISOMETRIC VIEW

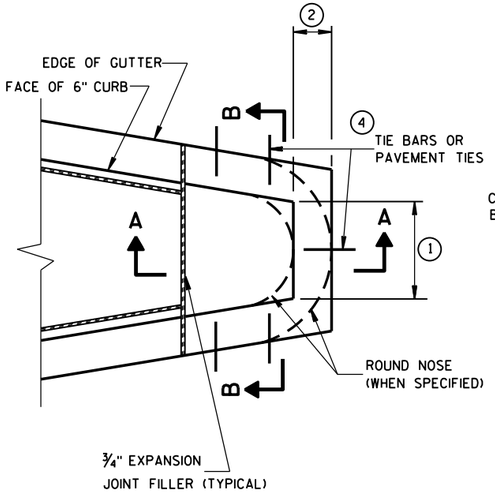
COMMUNICATIONS VAULT TYPE 1

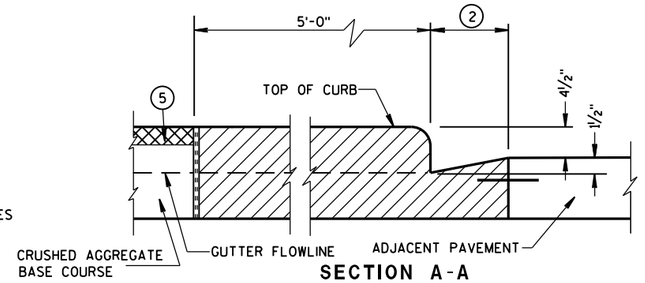
COMMUNICATION VAULT TYPE 1	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
May, 2017 (DATE)	/S/Ahmet Demirbilek (STATE ELECTRICAL)
FHWA	

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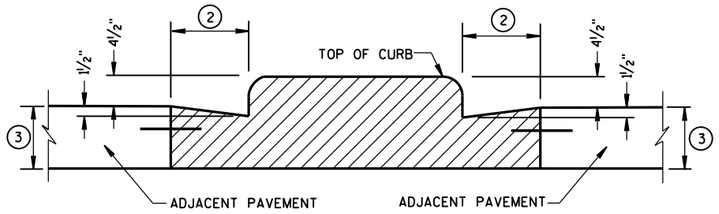
S.D.D. 9 H 9-2







SECTION A-A



SECTION B-B

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.

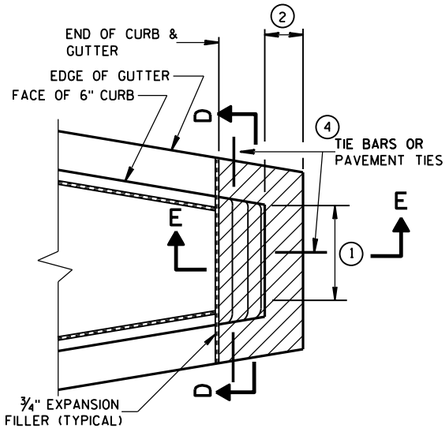
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

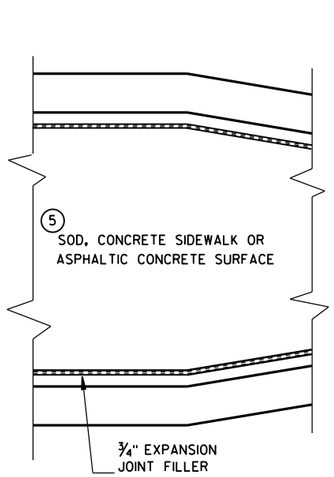
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

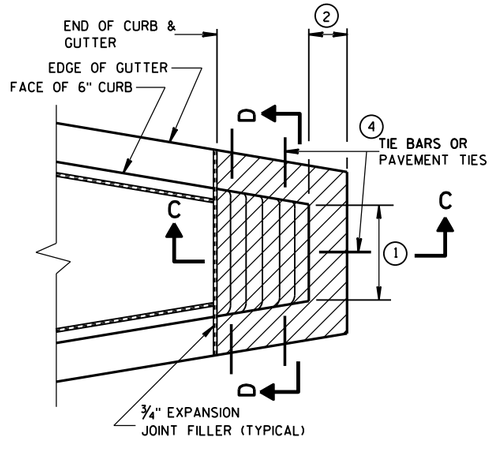
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

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.

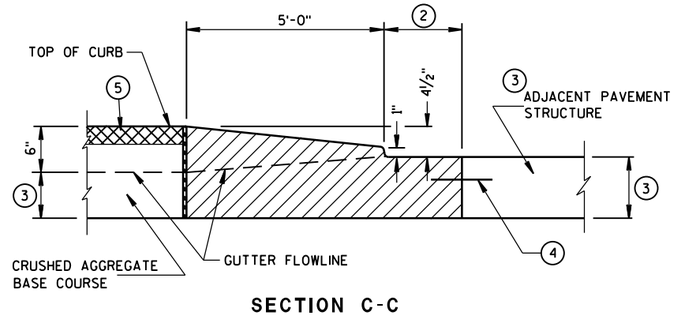
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



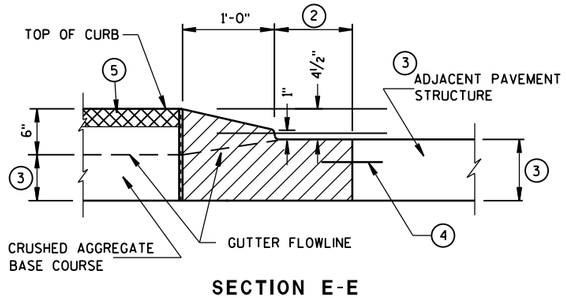




CONCRETE MEDIAN SLOPED NOSE TYPE 1

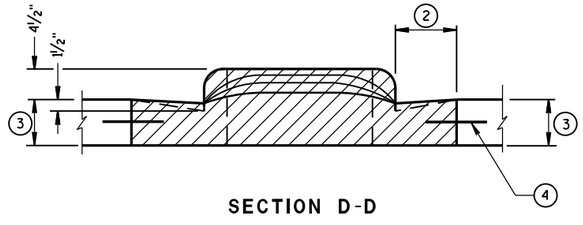


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

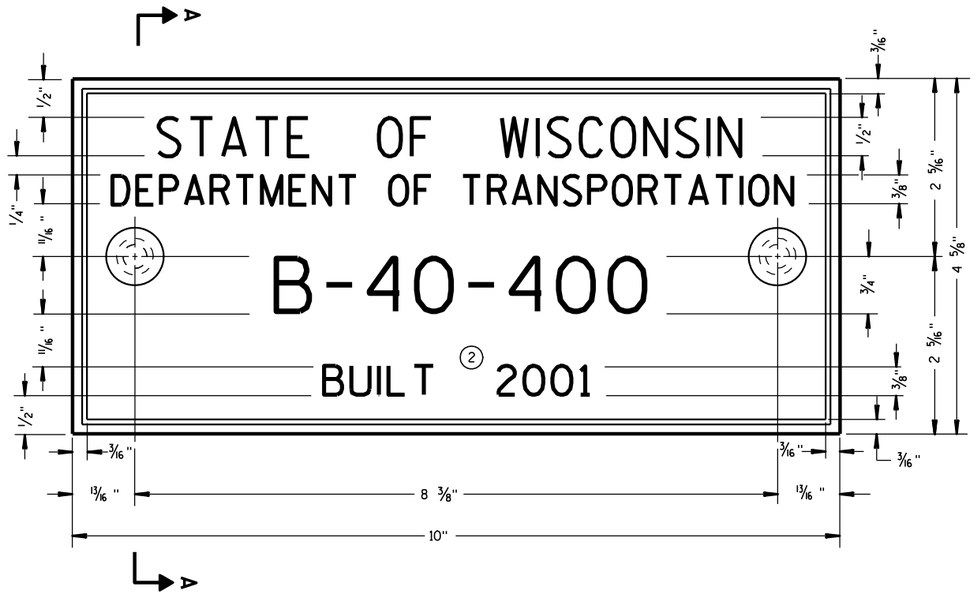
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

6

S.D.D. 11 B 2-2

6

S.D.D. 11 B 2-2



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

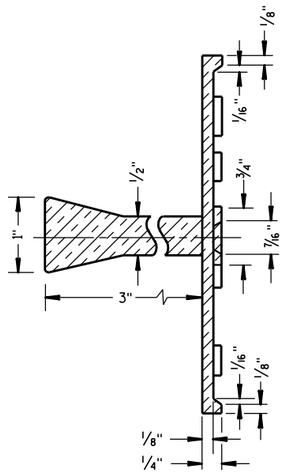
GENERAL NOTES

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.

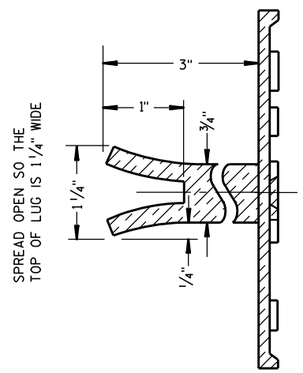
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

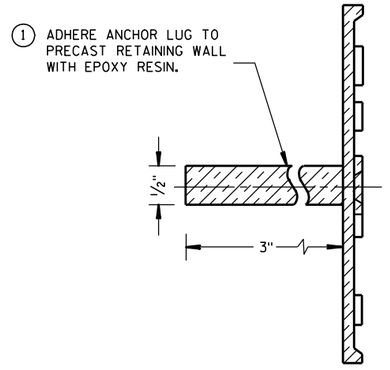
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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 DEVELOP 468 ENGINEER

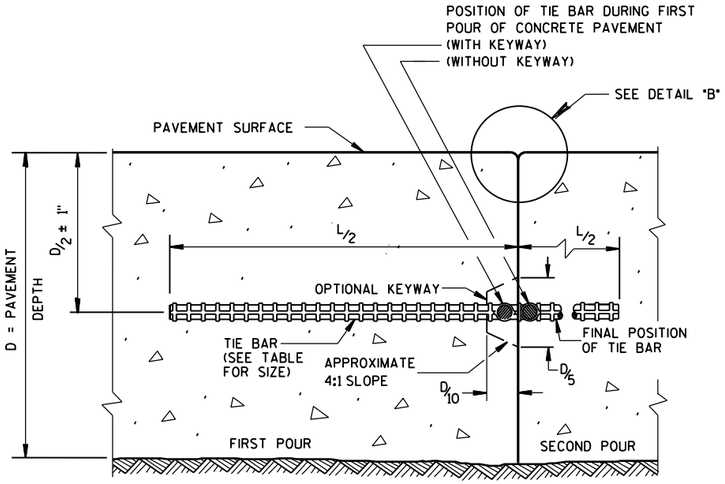
FHWA

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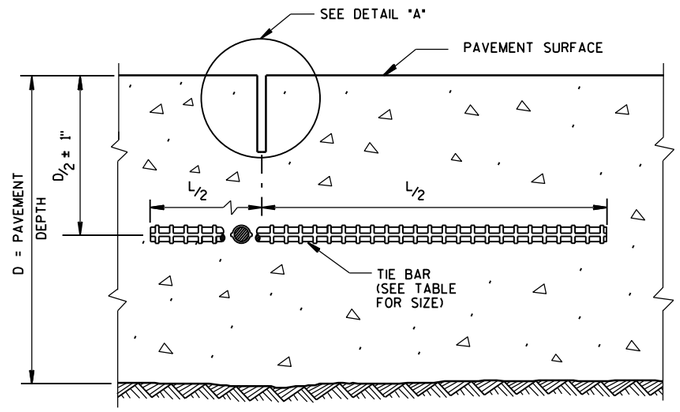
S.D.D. 12 A 3-10

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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"

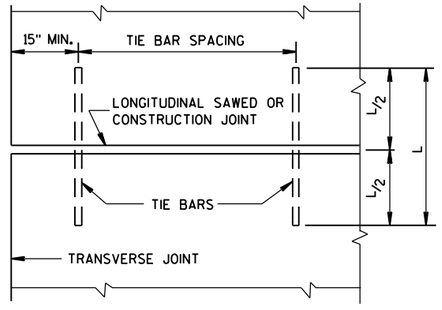
DETAIL "C"

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

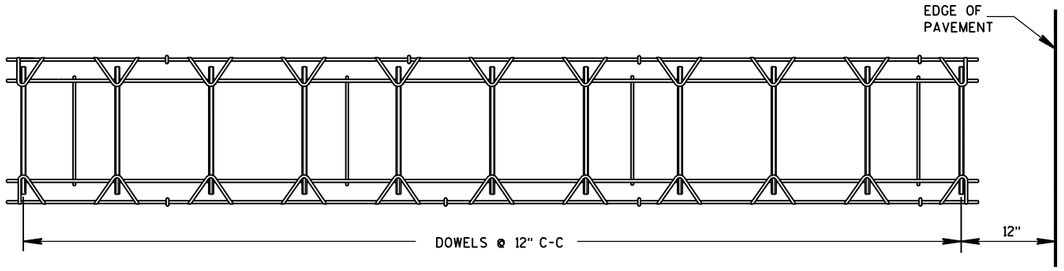
CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

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S.D.D. 13 C 1-18

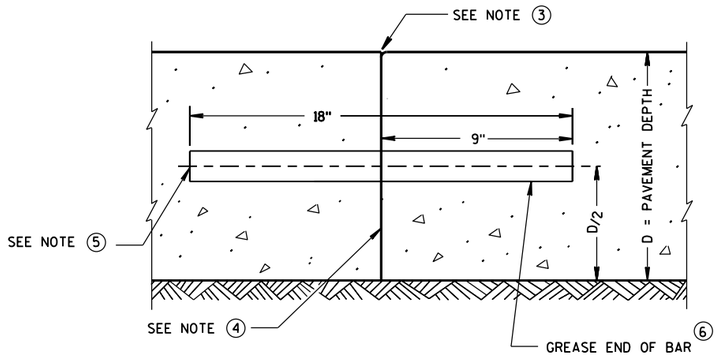


PLAN VIEW

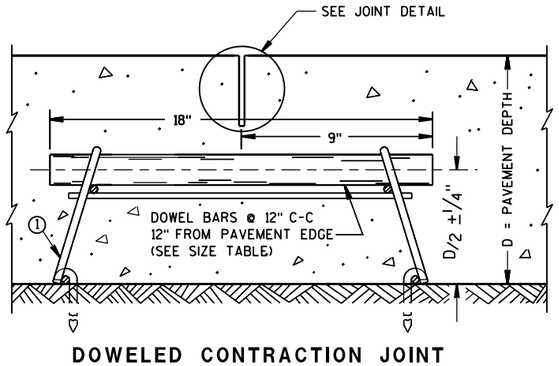


SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



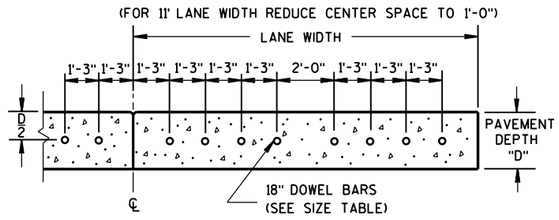
TRANSVERSE CONSTRUCTION JOINT



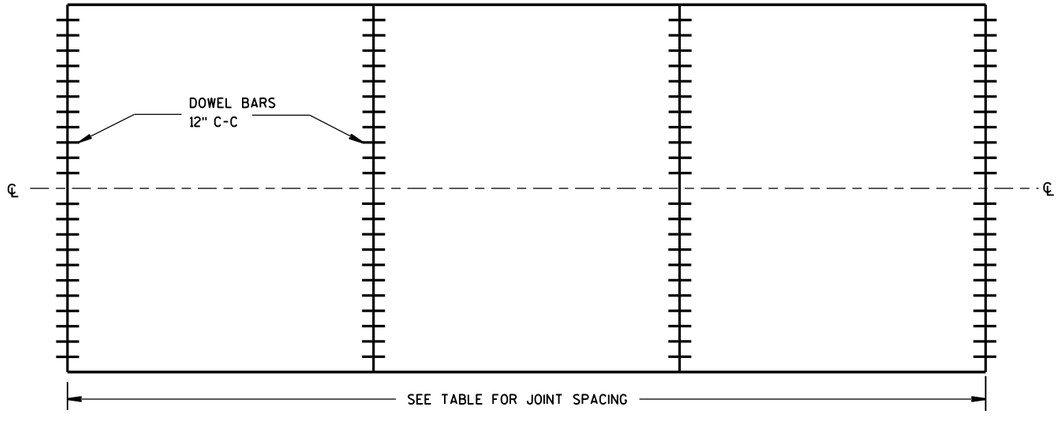
DOWELED CONTRACTION JOINT

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.

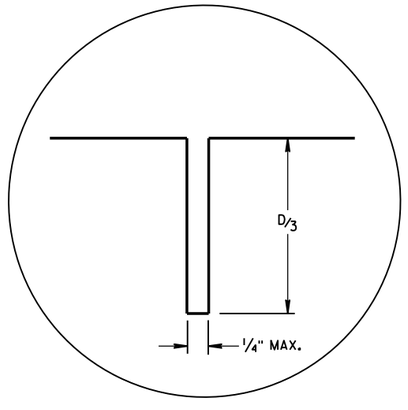
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

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

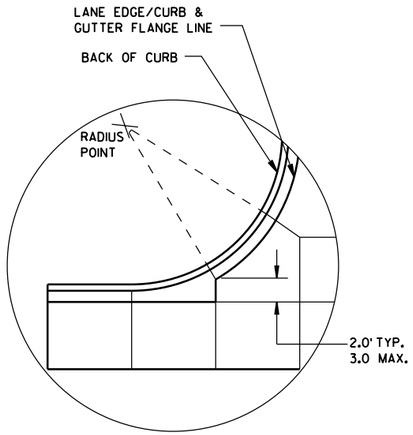
URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

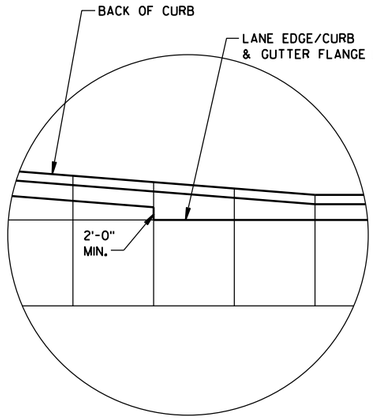
APPROVED
5/3/2013 DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE ENGINEER
FHWA

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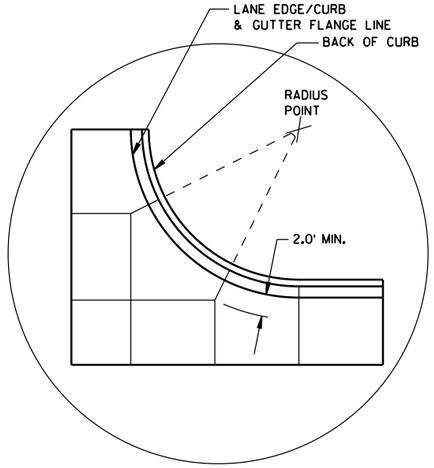
S.D.D. 13 C 13-8



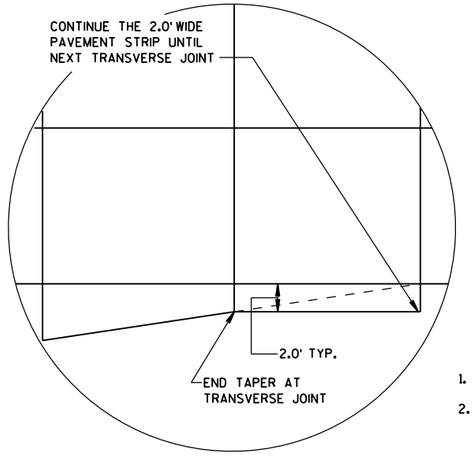
DETAIL "A"



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.

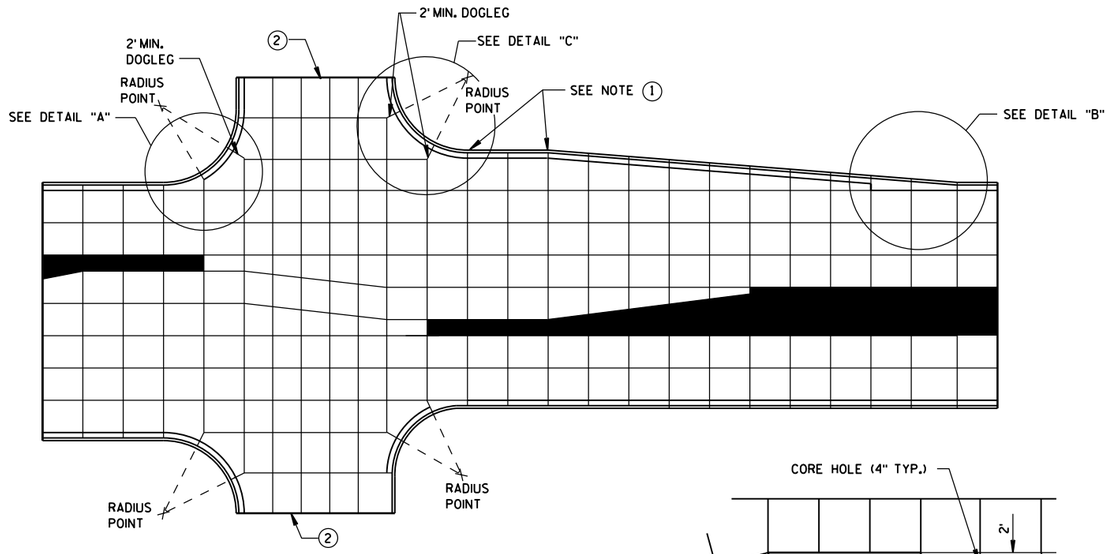
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

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.

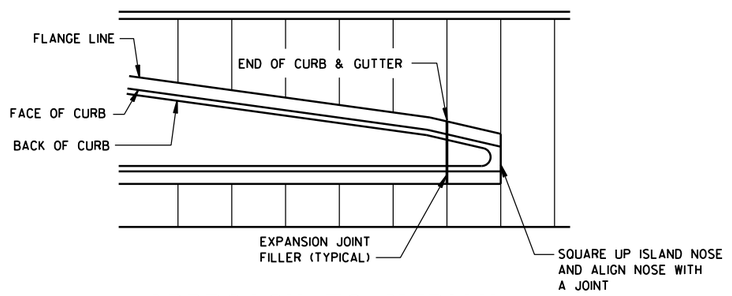
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



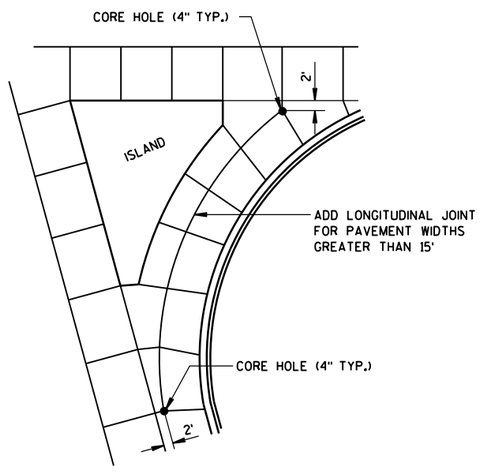
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

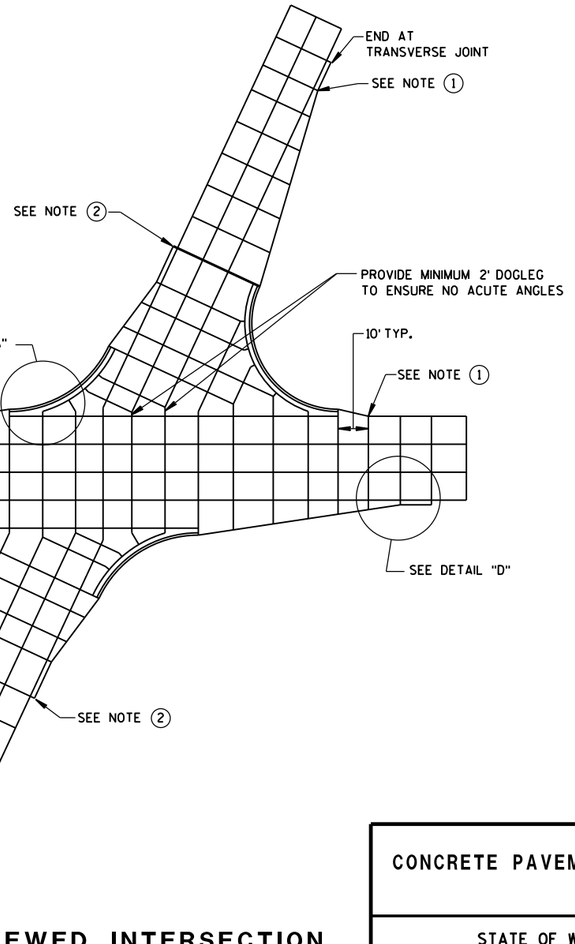
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



APPROACH TO MEDIAN



LARGE RIGHT TURN



SKEWED INTERSECTION

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

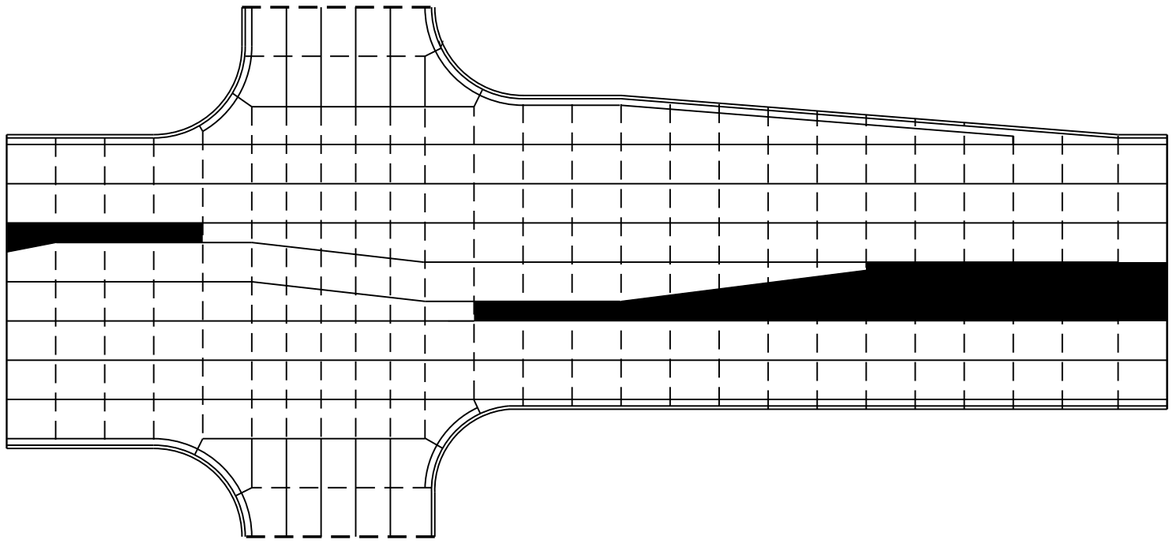
6
S.D.D. 13 C 18-5a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

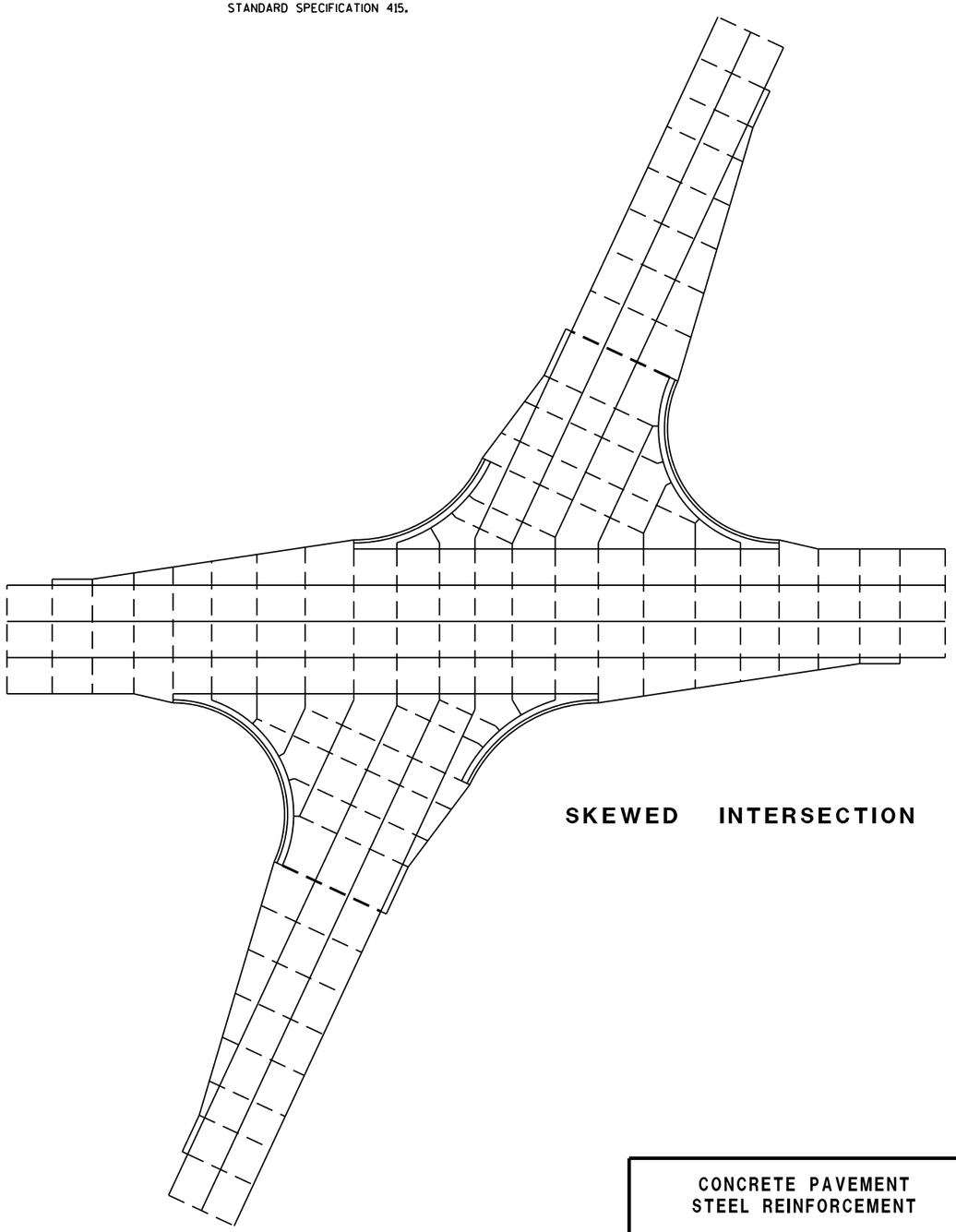
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

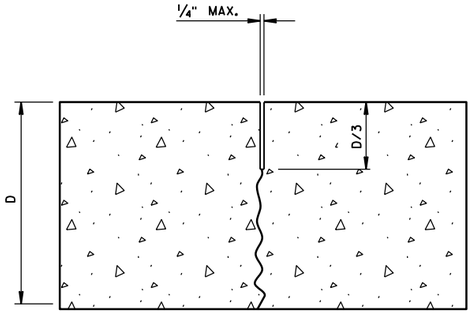
S.D.D. 13 C 18-5b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

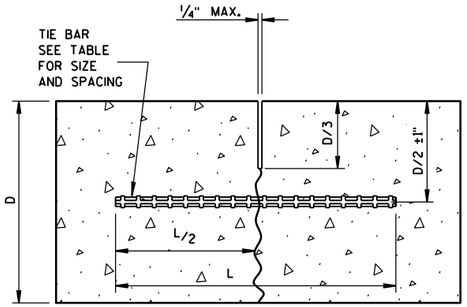
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 13 C 18-5b



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

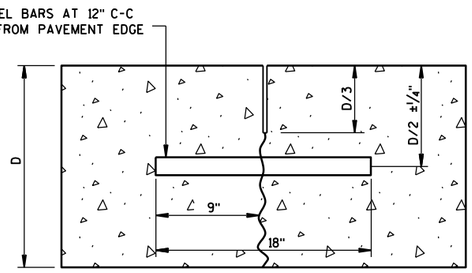
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* 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

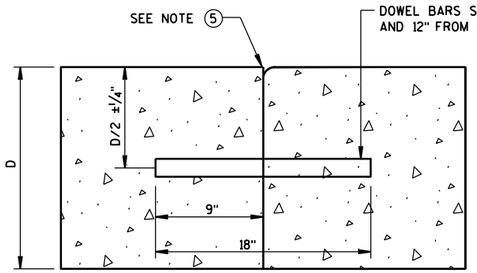
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 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.



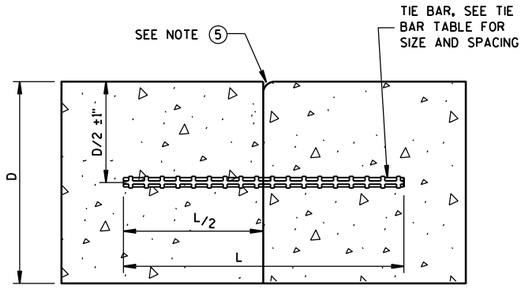
DOWELED-TRANSVERSE

CONTRACTION JOINTS

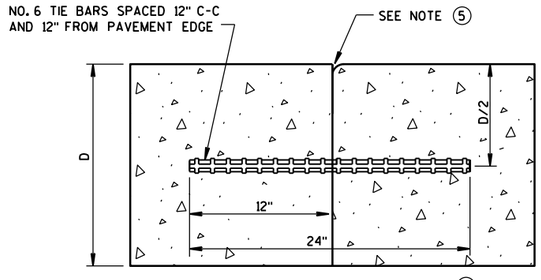
SEE NOTE (2)



DOWELED TRANSVERSE (3)

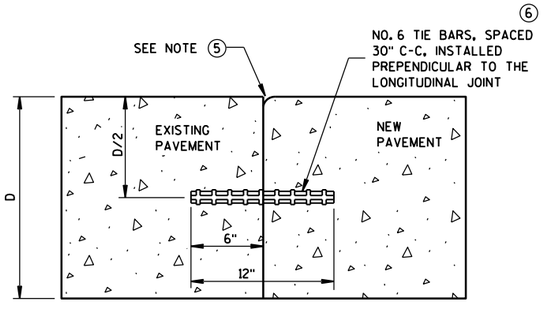


TIED LONGITUDINAL



TIED TRANSVERSE (3)

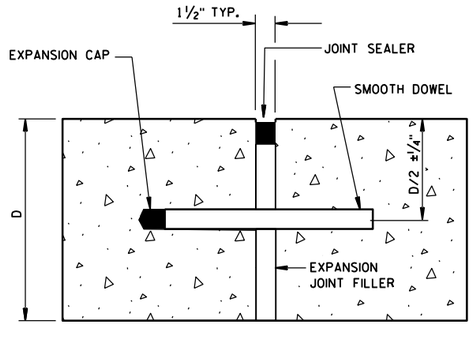
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

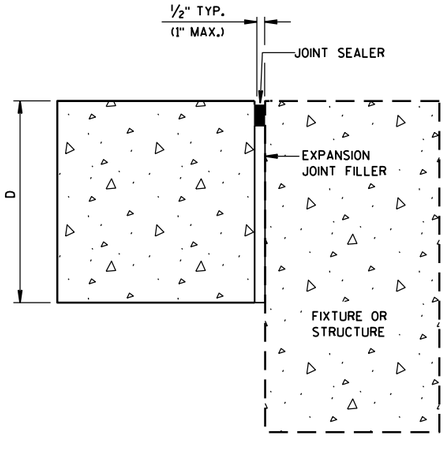
CONSTRUCTION JOINTS

SEE NOTE (4)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

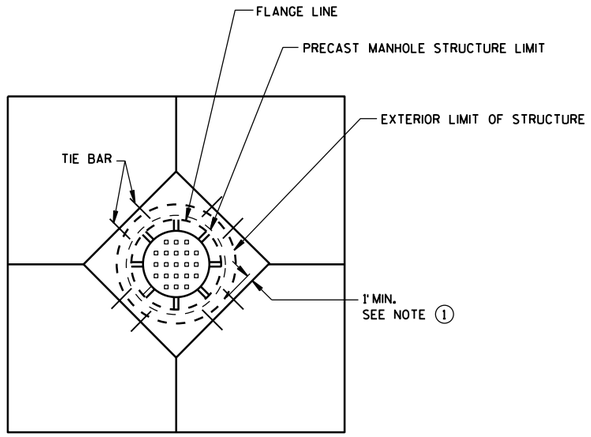
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 473

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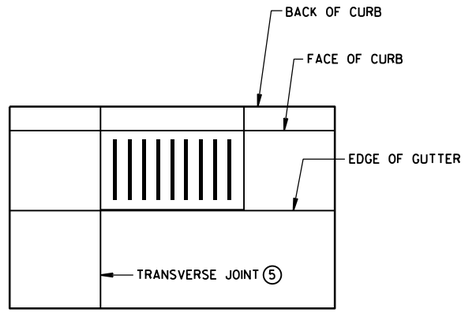
S.D.D. 13 C 18-5c

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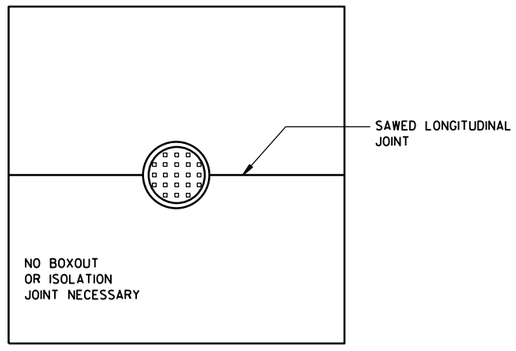
S.D.D. 13 C 18-5c



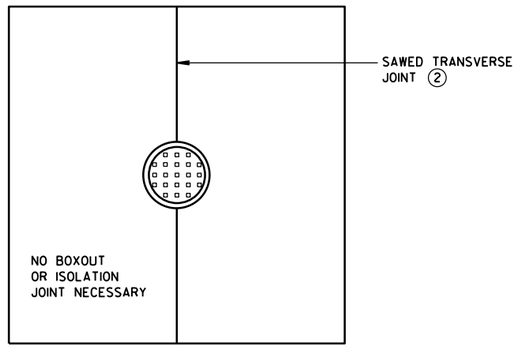
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



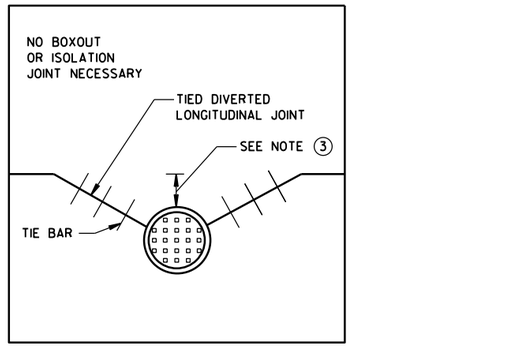
INLET WITH TRANSVERSE JOINT



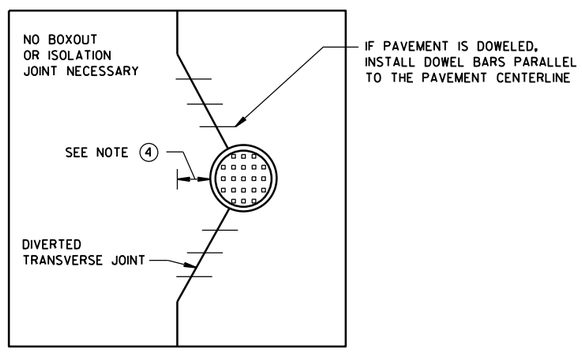
MANHOLE WITH LONGITUDINAL JOINT



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.

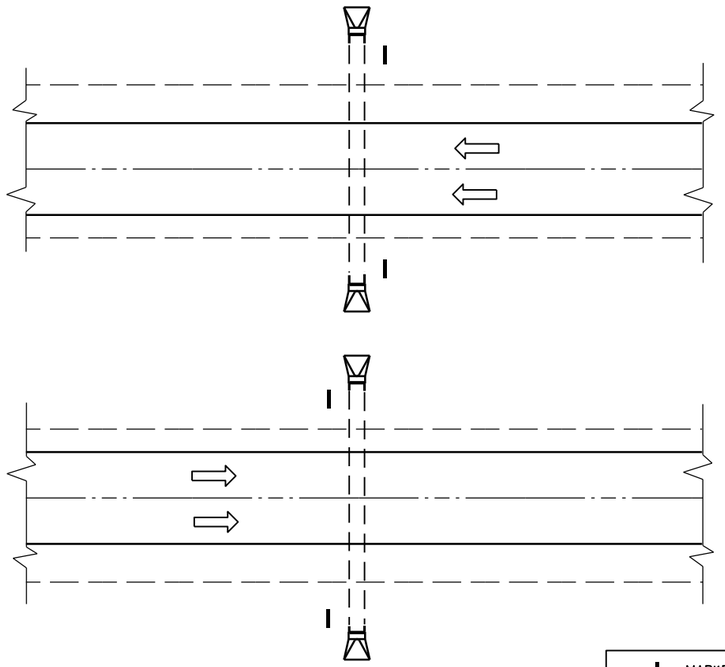
(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

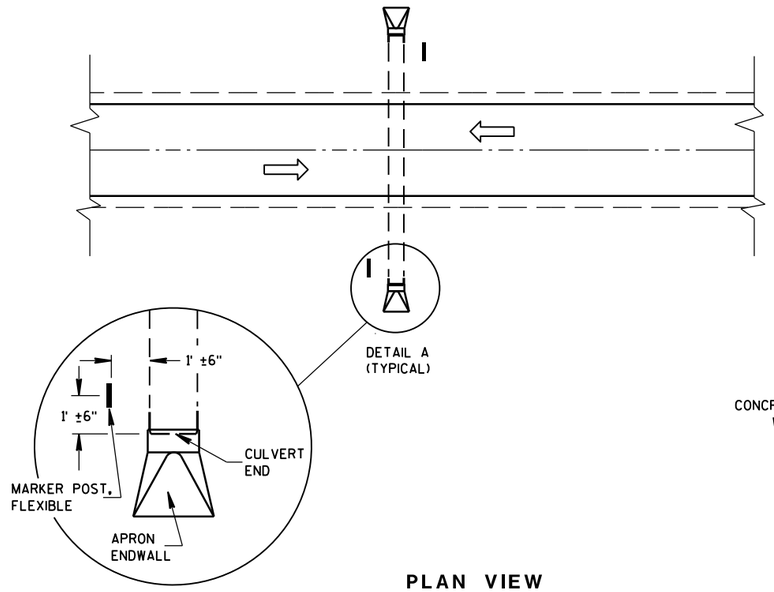
APPROVED
December, 2016 — /S/ Peter Kemp, P.E.
DATE — PAVEMENT SUPEF 474
FHWA

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S.D.D. 13 C 18-5d



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

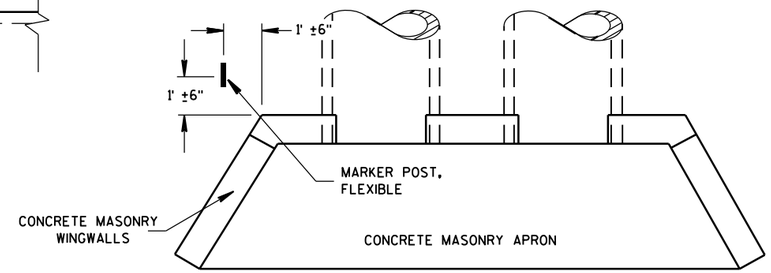
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

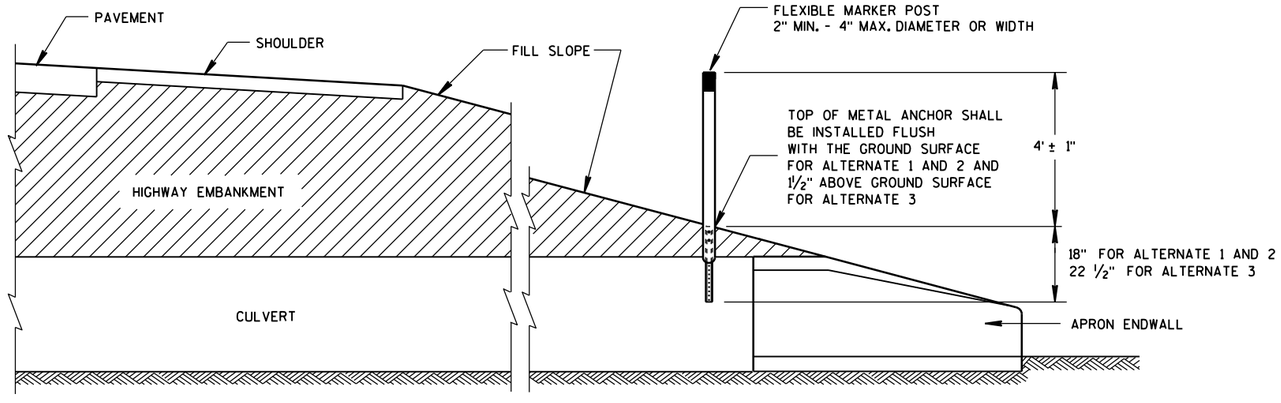
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

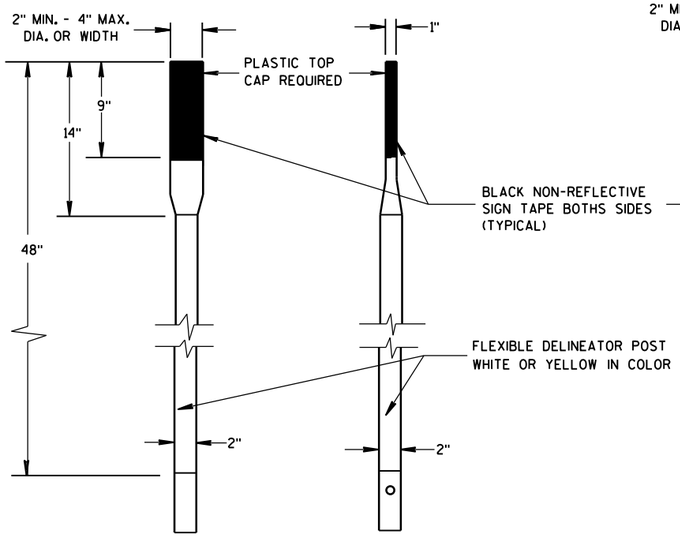
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

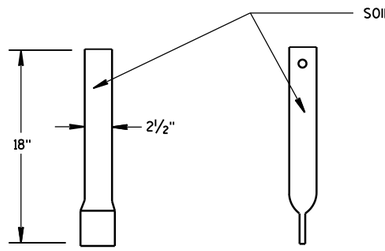
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S.D.D. 15 A 3-2a

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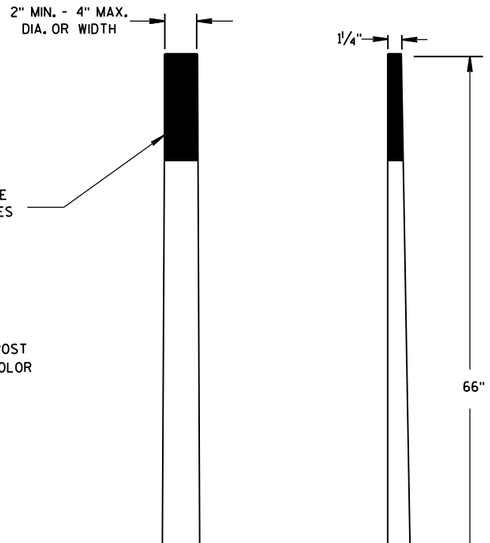
S.D.D. 15 A 3-2a





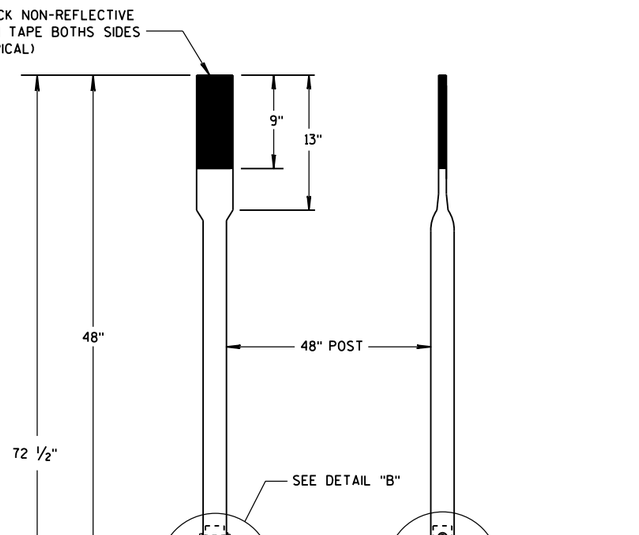
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

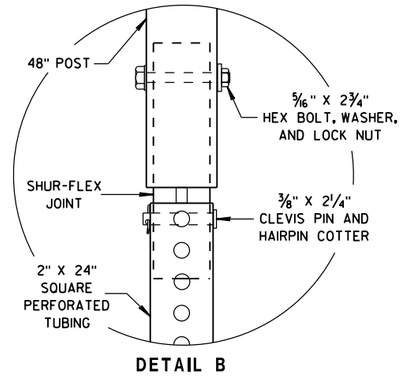
ALTERNATE 2



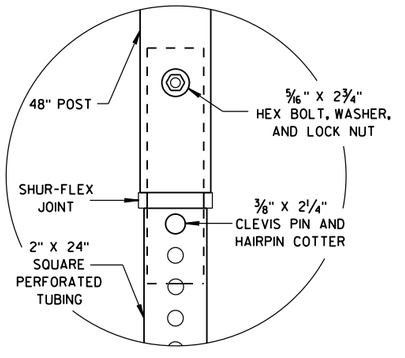
FRONT VIEW SIDE VIEW

ALTERNATE 3

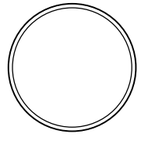
FLEXIBLE MARKER POSTS



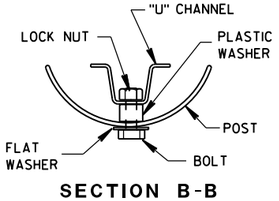
DETAIL B



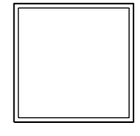
DETAIL C



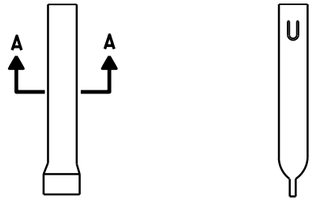
SECTION A-A



SECTION B-B

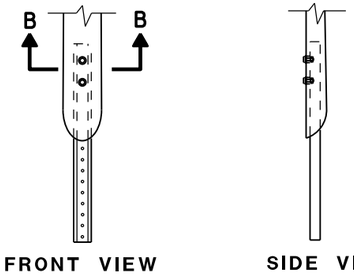


SECTION C-C



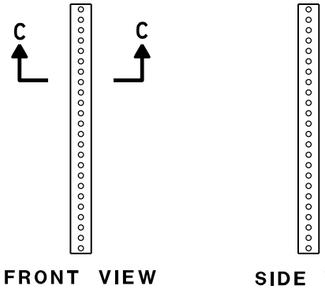
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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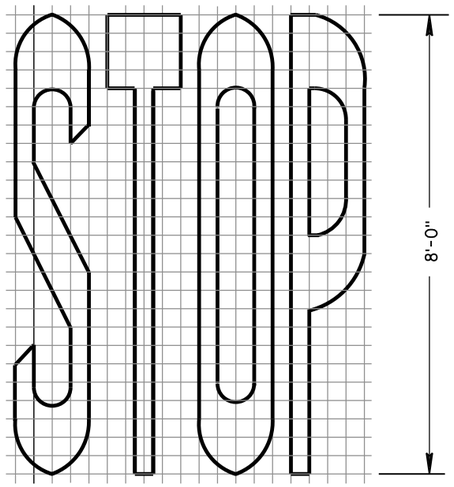
S.D.D. 15 A 3-2b

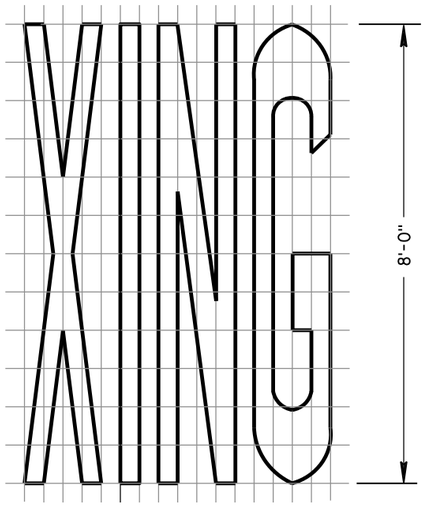
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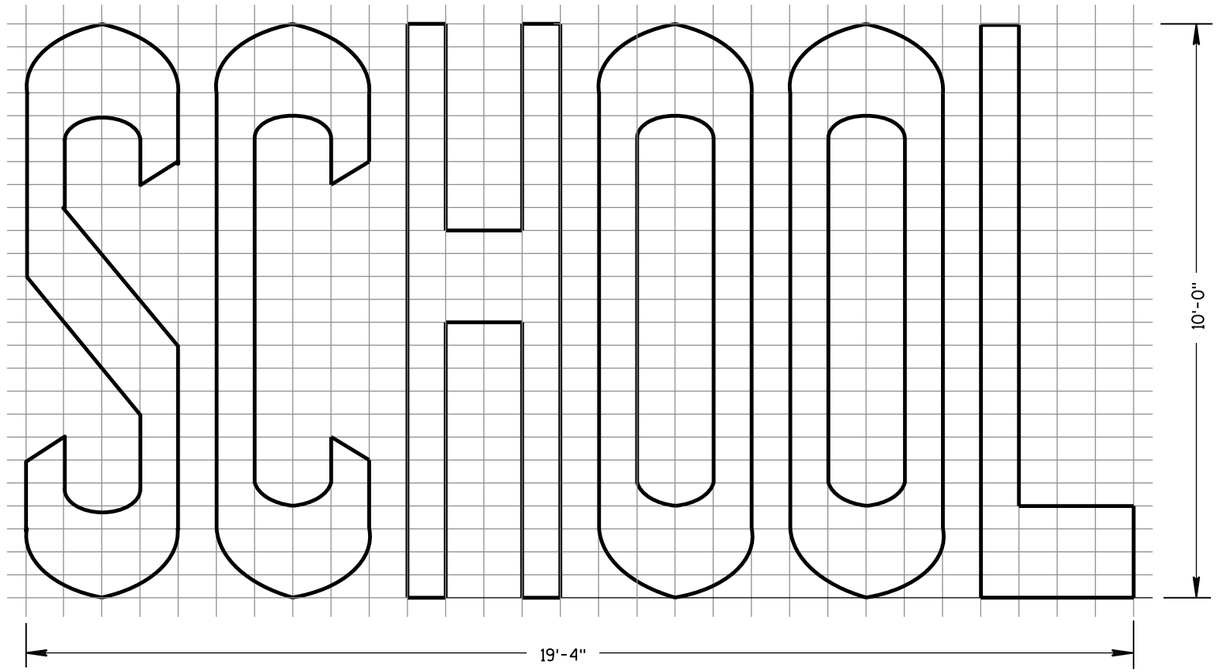
S.D.D. 15 A 3-2b

GENERAL NOTES

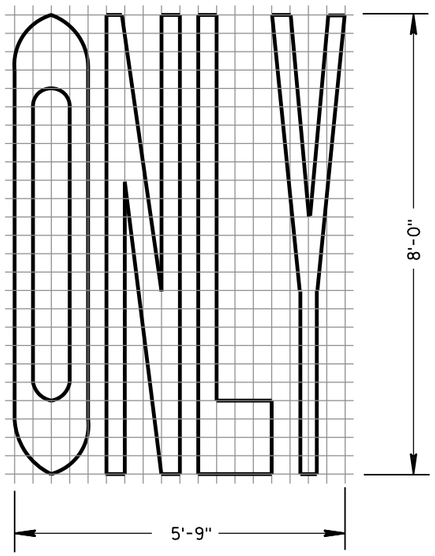
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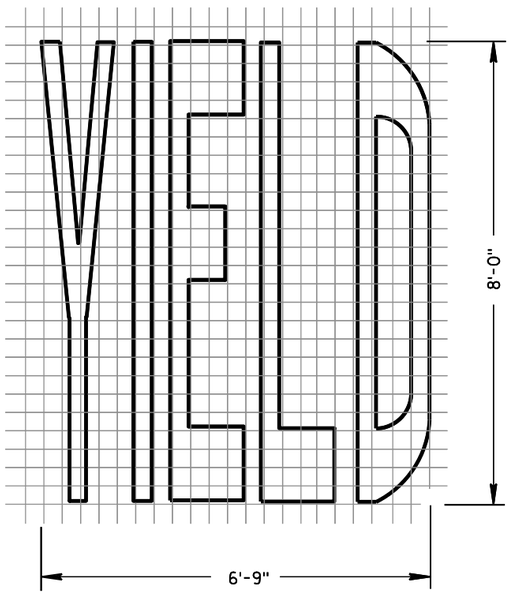


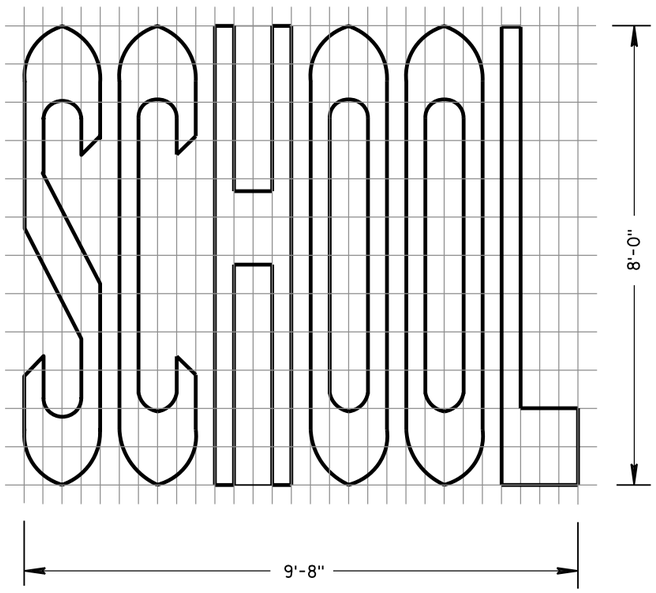




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

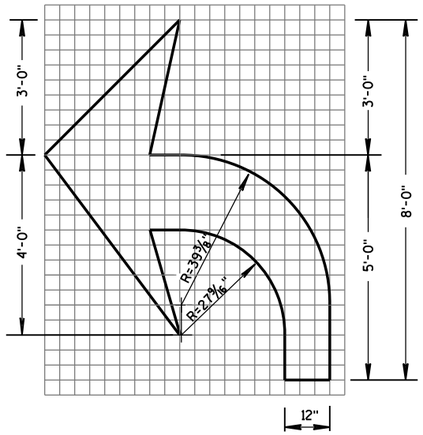
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FHWA

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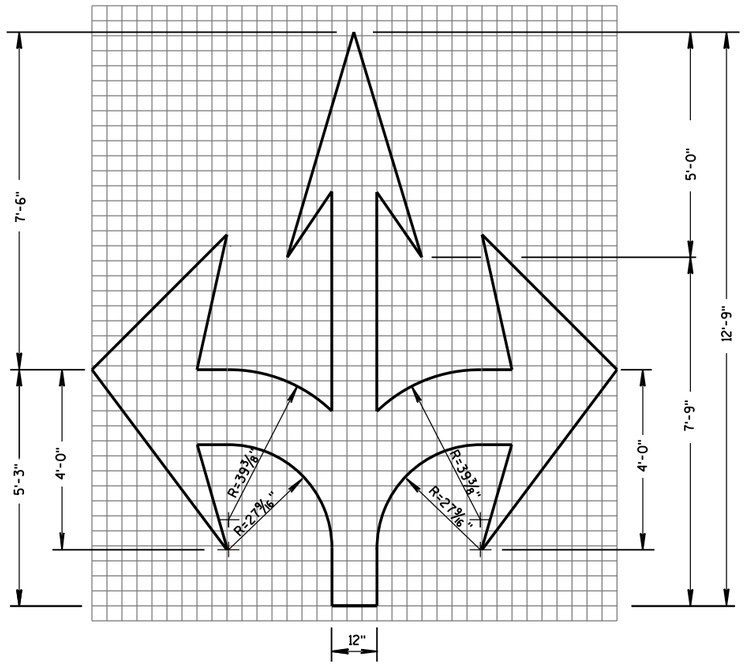
S.D.D. 15 C 7-14b

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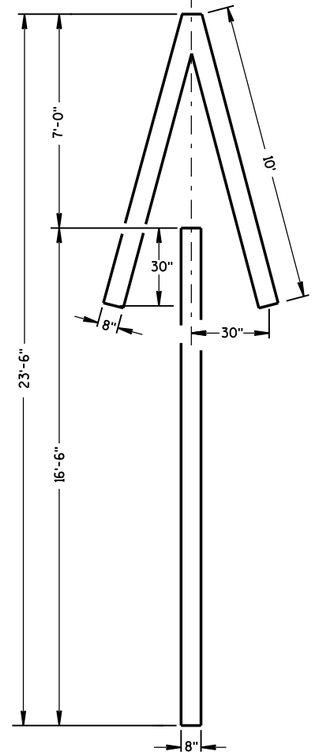
S.D.D. 15 C 7-14b



TYPE 2



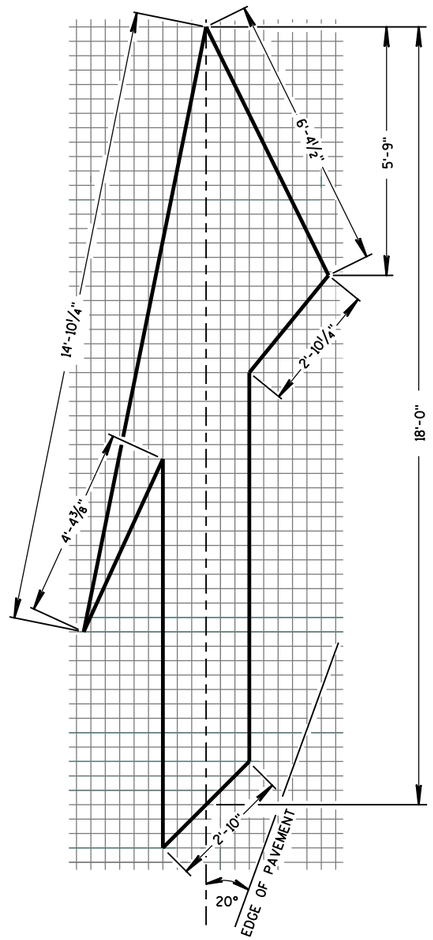
TYPE 6



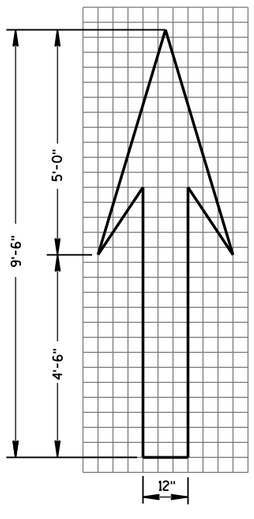
TYPE 4

GENERAL NOTES

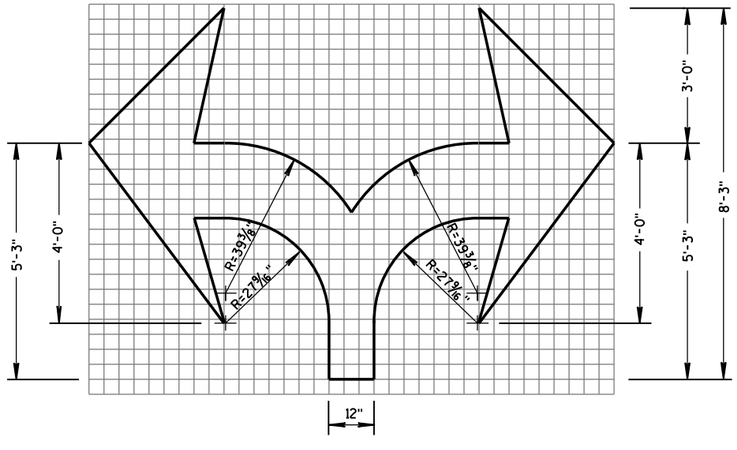
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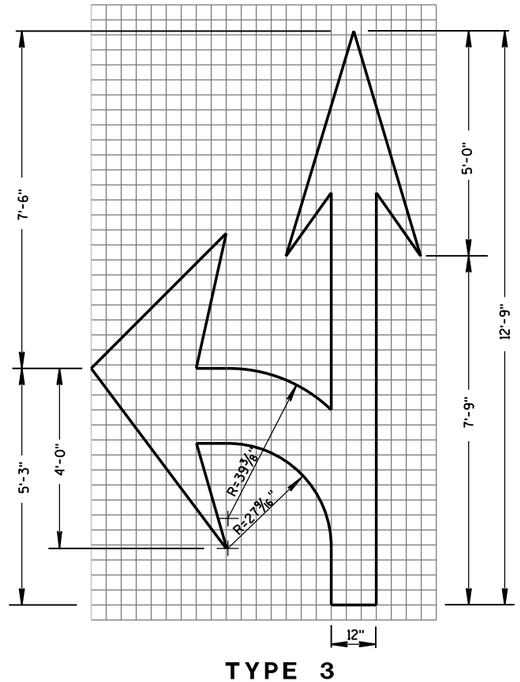
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

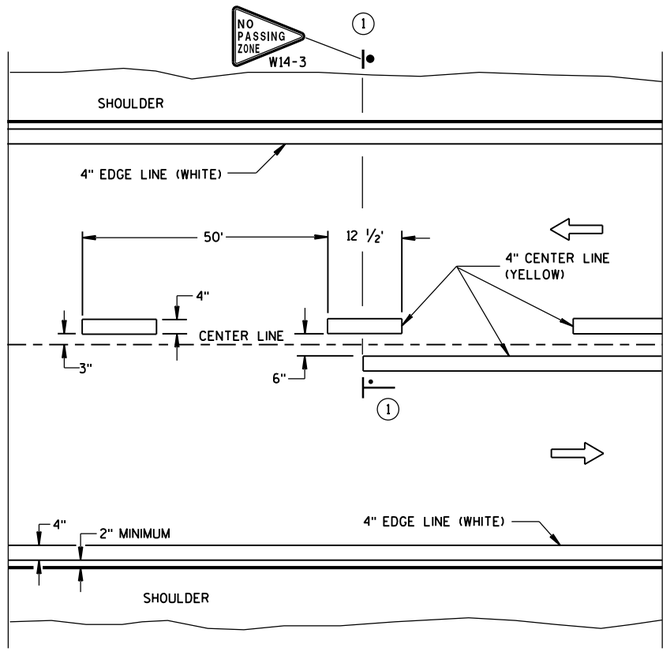
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June 2017 — DATE
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ENGINEER
FHWA

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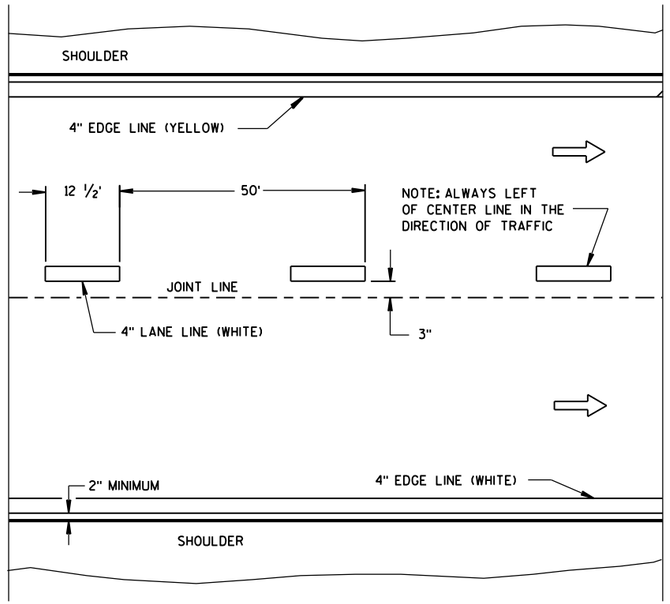
S.D.D. 15 C 7-14c

6

S.D.D. 15 C 7-14c



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

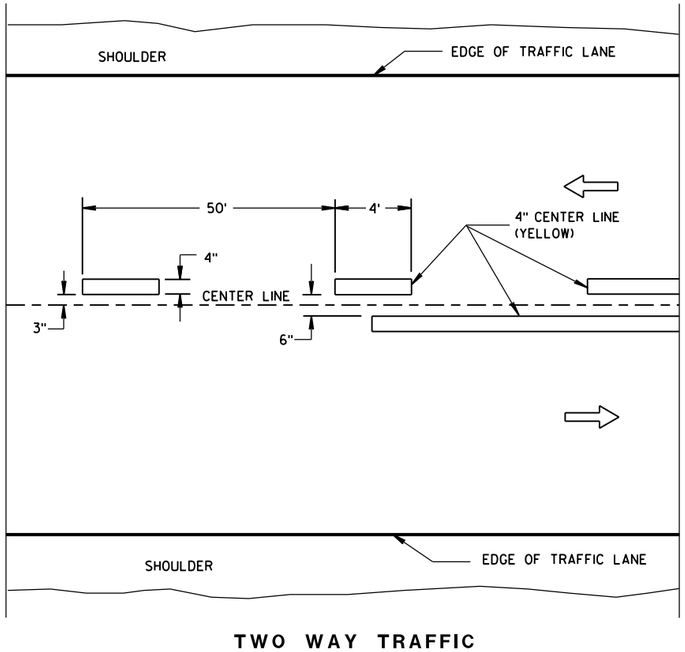
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

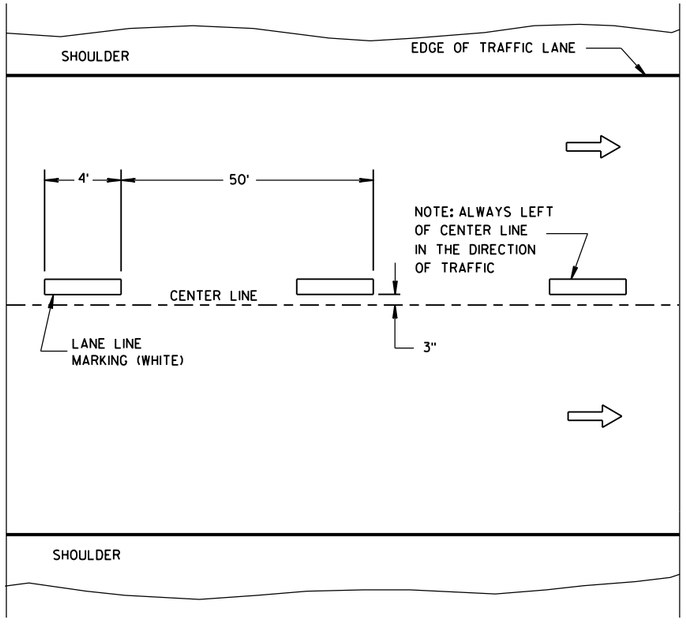
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

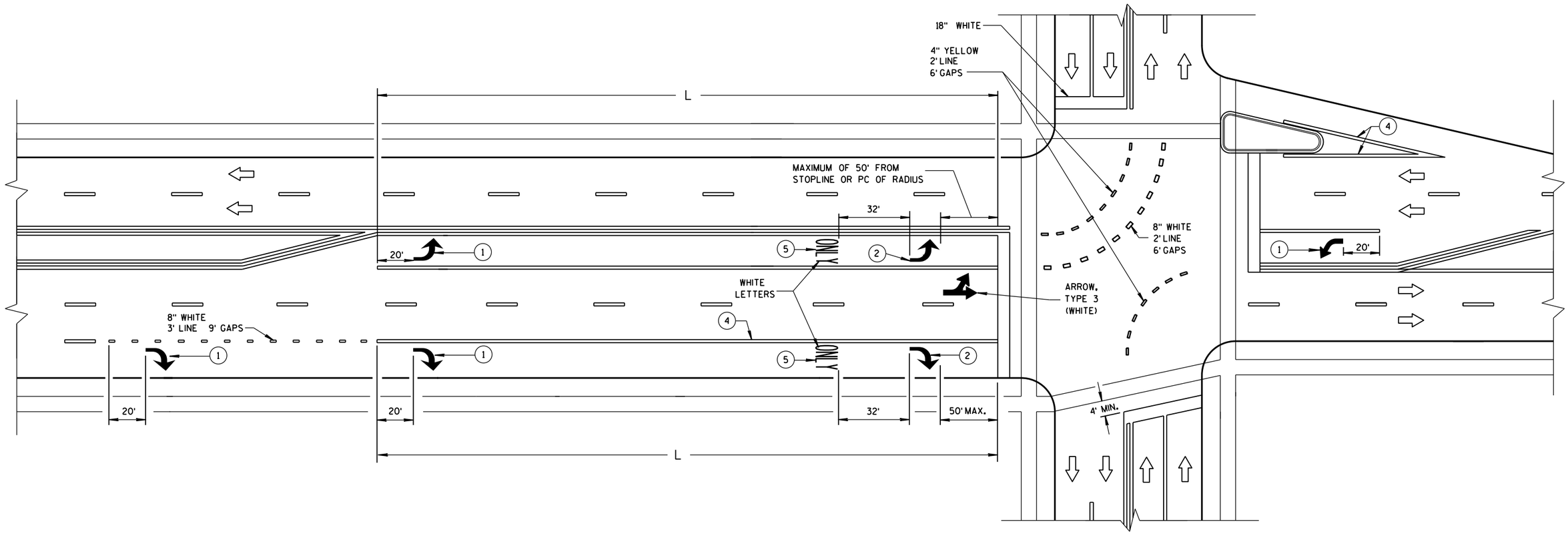
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June 2017 — DATE
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FHWA

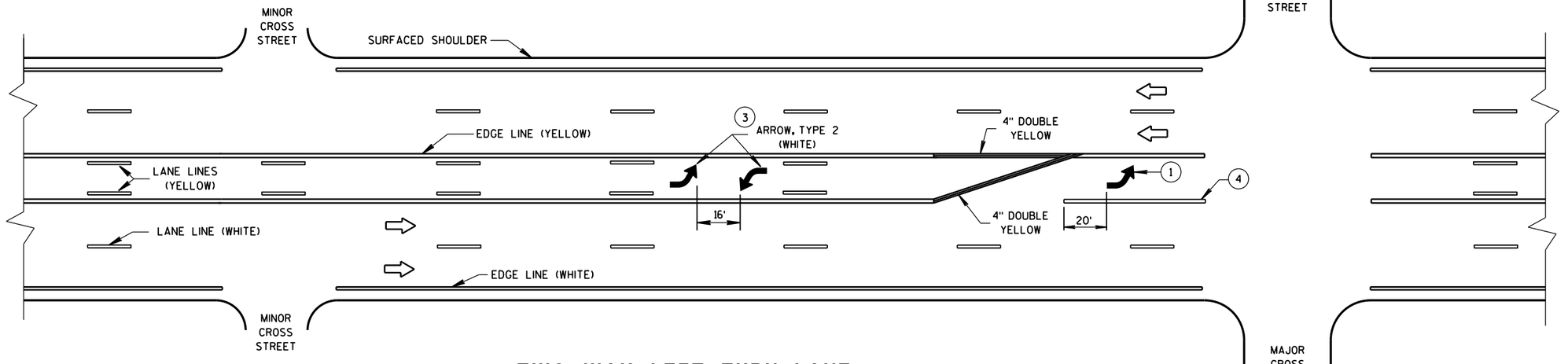
6

S.D.D. 15 C 8-18a

6

S.D.D. 15 C 8-18a





TWO WAY LEFT TURN LANE

GENERAL NOTES

(1) REQUIRED ARROW, TYPE 2 (WHITE).

(2) REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.

(3) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(4) 8" WHITE

(5) REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

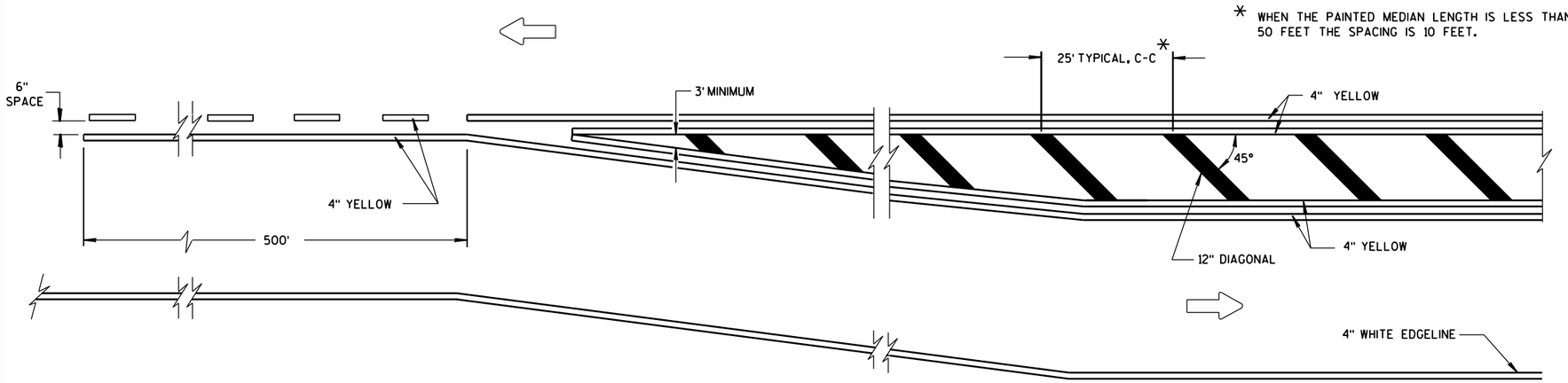
NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

S.D.D. 15 C 8-18b

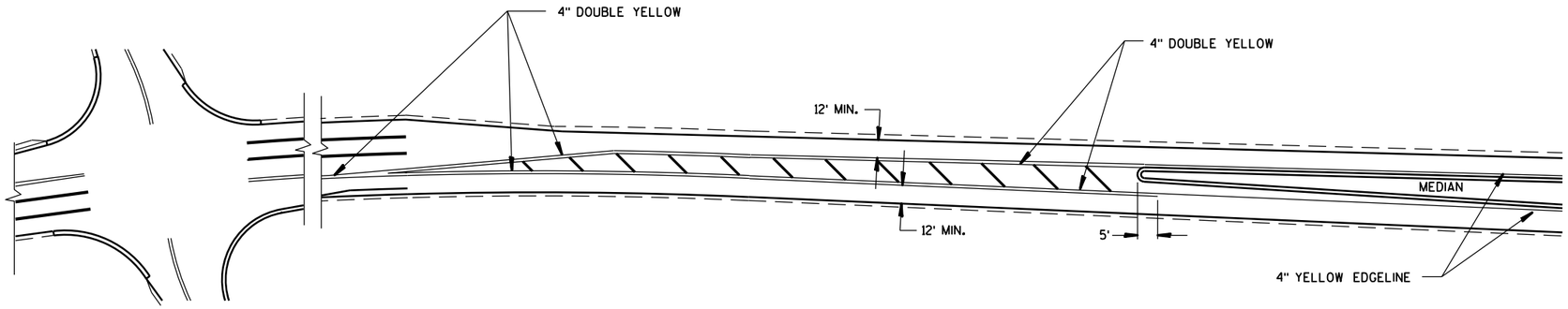


MEDIAN ISLAND DETAIL

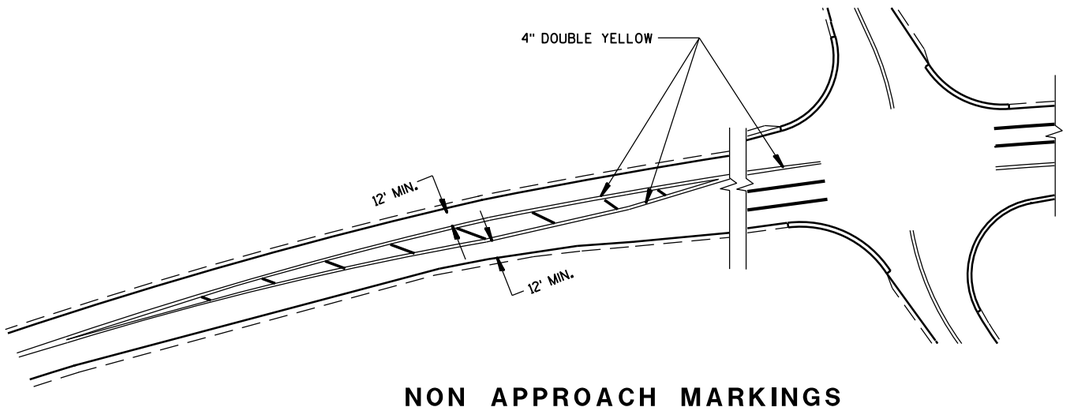
GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE FHWA	/S/ Matthew Rauch STATE SIGNING AND MARK 481 EER

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S.D.D. 15 C 18-4

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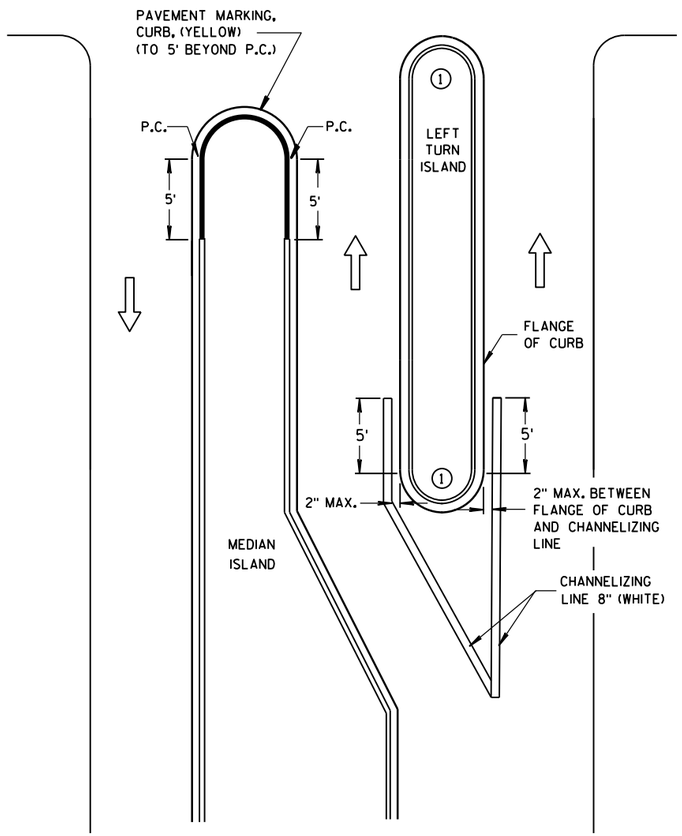
S.D.D. 15 C 18-4

GENERAL NOTE

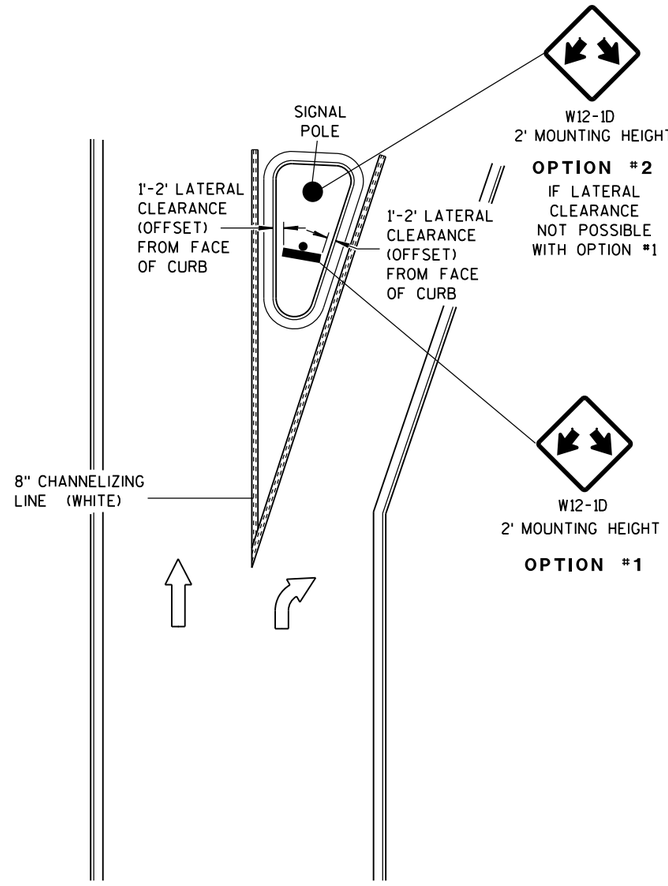
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

DIRECTION OF TRAVEL



LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND

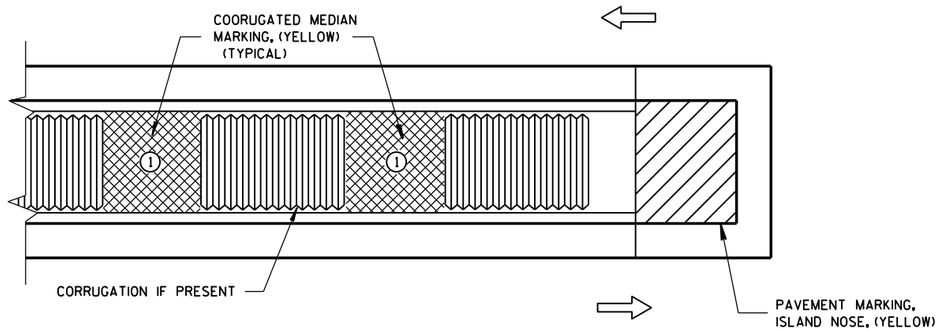
DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

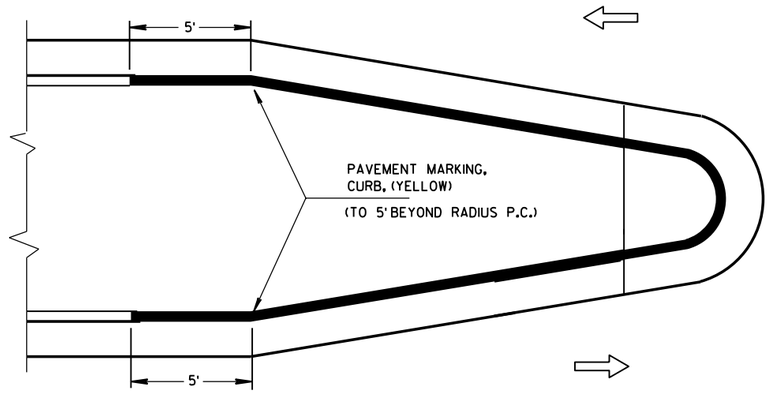
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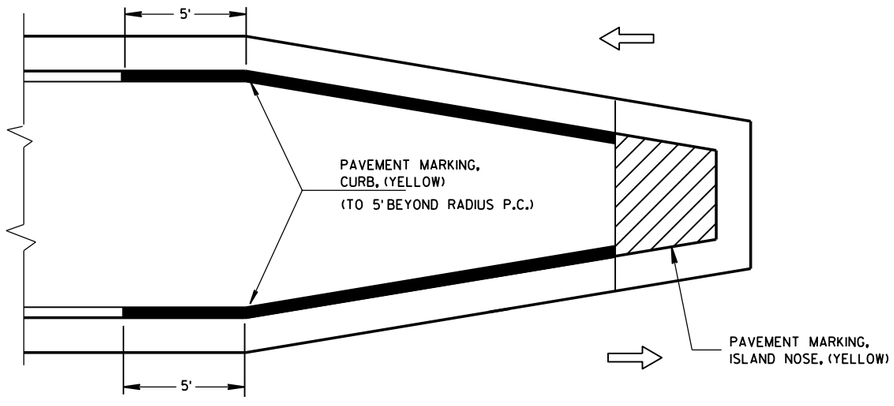
S.D.D. 15 C 27-2a



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

GENERAL NOTES

(1) 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.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

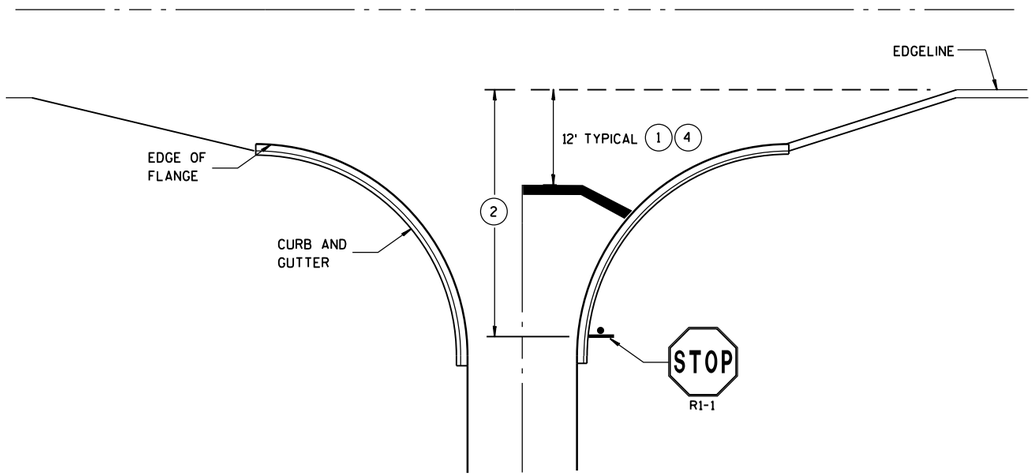
APPROVED
June 2017
DATE
/S/ Matthew Rauch
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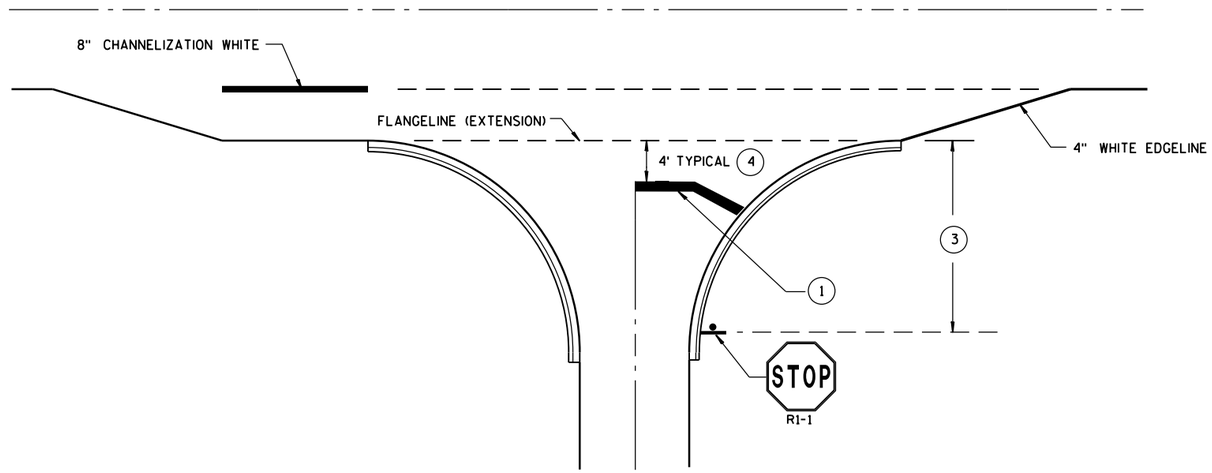
S.D.D. 15 C 27-2b

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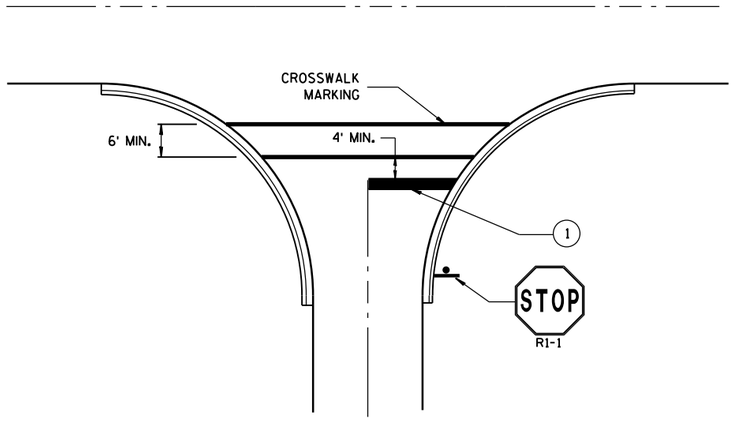
S.D.D. 15 C 27-2b



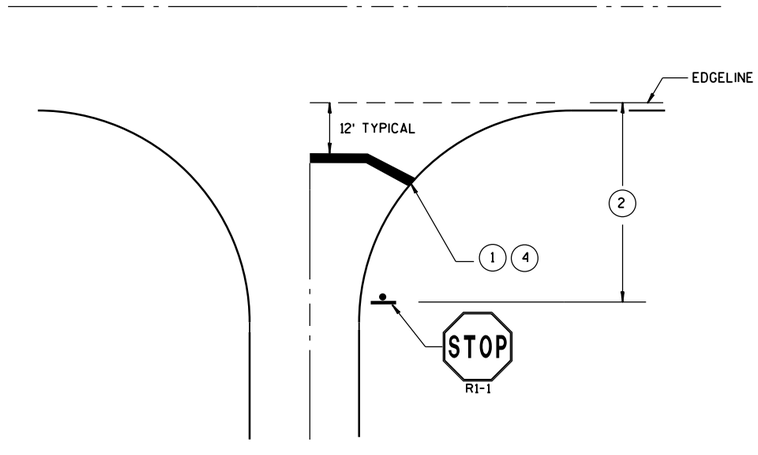
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



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

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

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

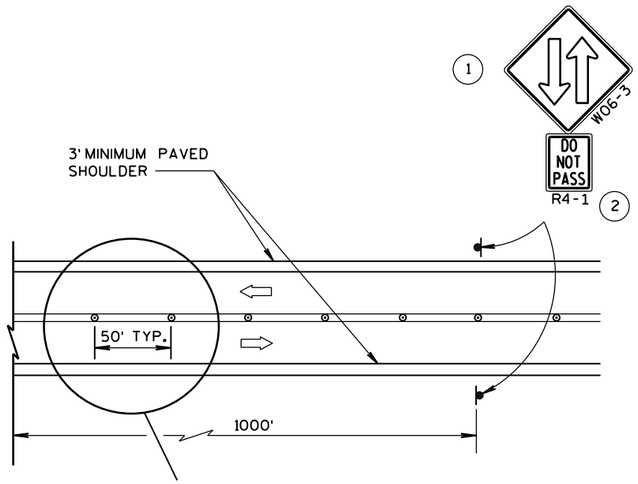
Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]NEER

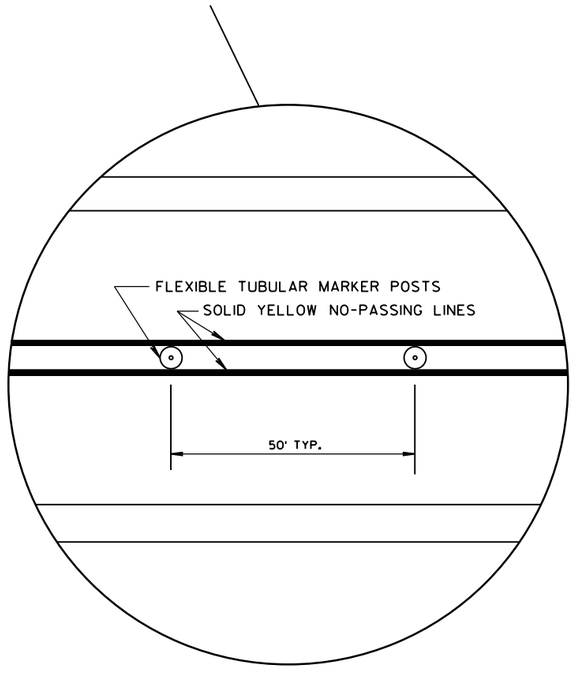
FHWA

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S.D.D. 15 C 33-3



TWO LANE, TWO WAY OPERATION



LEGEND

- SIGN ON PERMANENT SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC

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.

(1)



W057-51
48"x24"



R4-1 (2)

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"

TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

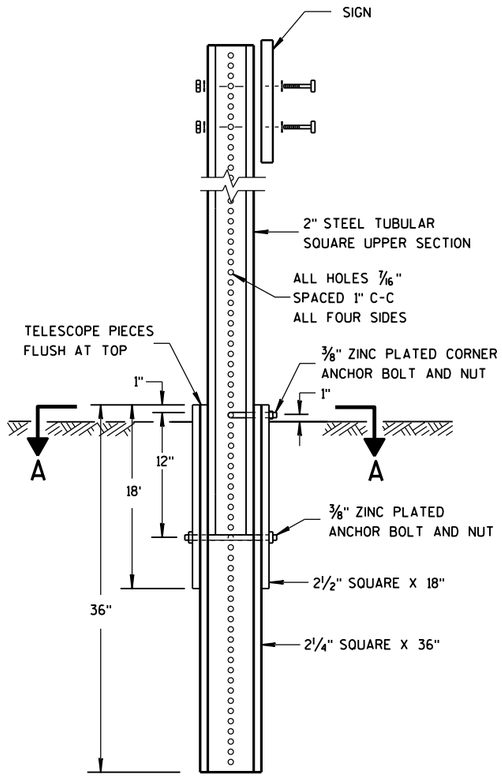
8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER SIGN

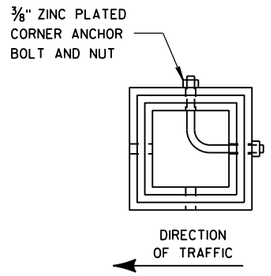
FHWA

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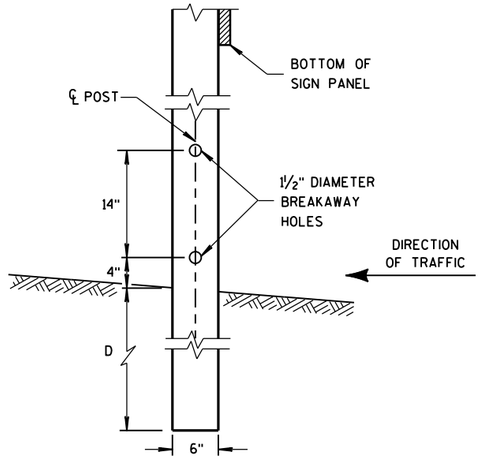
S.D.D. 15 D 6-3



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



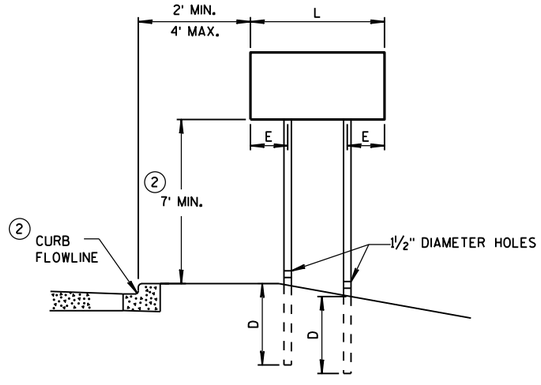
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

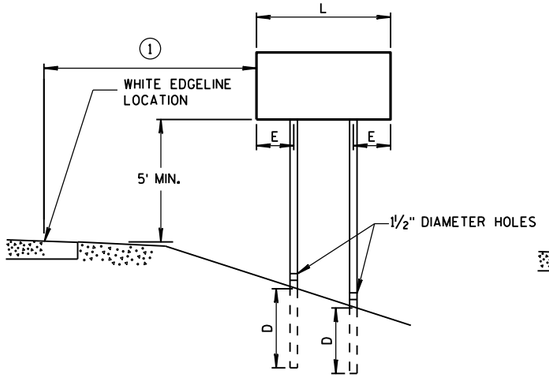
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

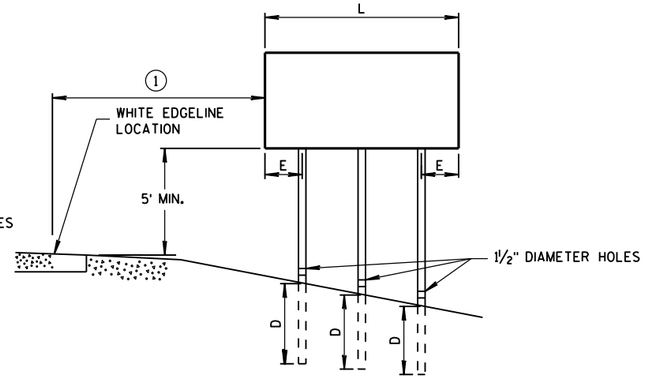
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK 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

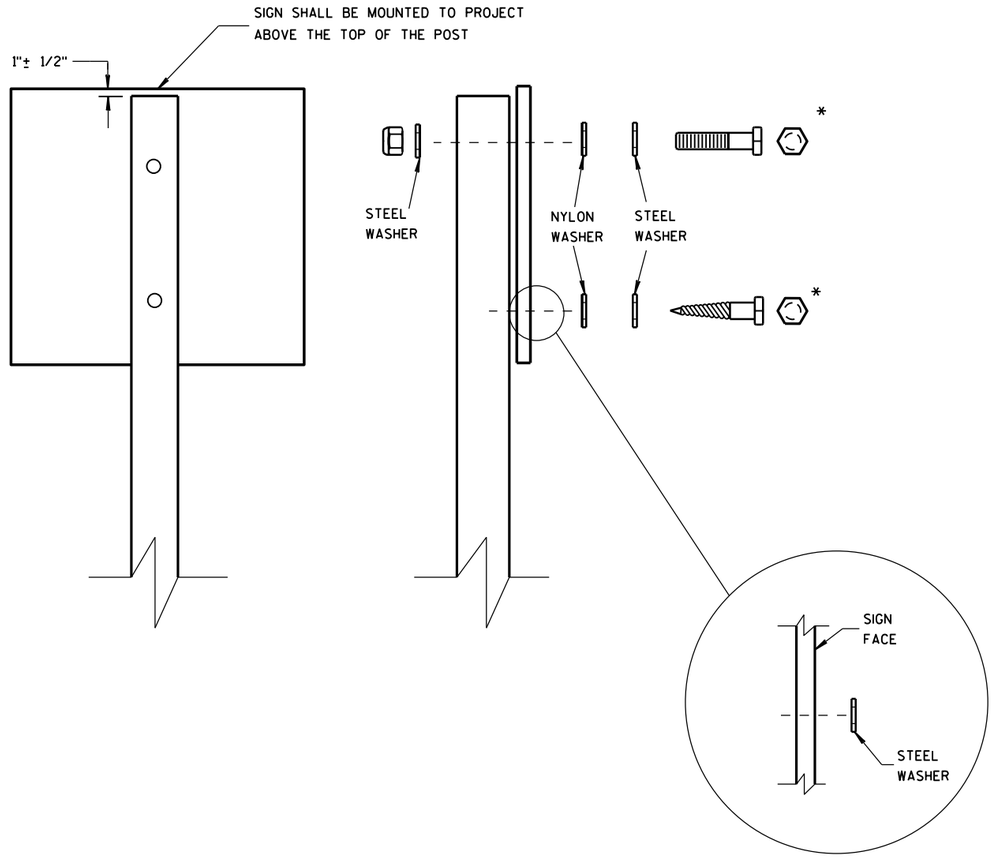
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 D 38-2a



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 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

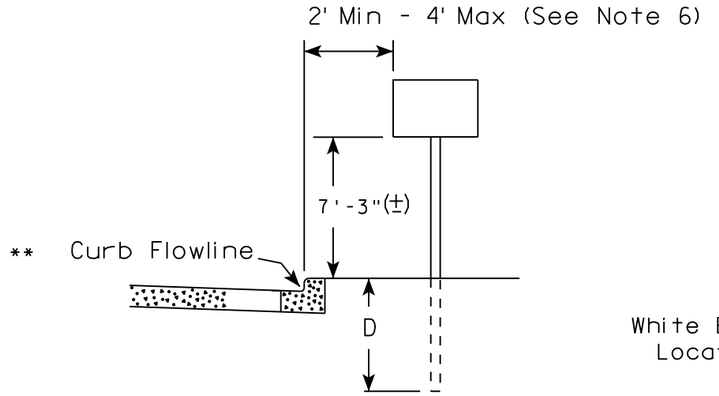
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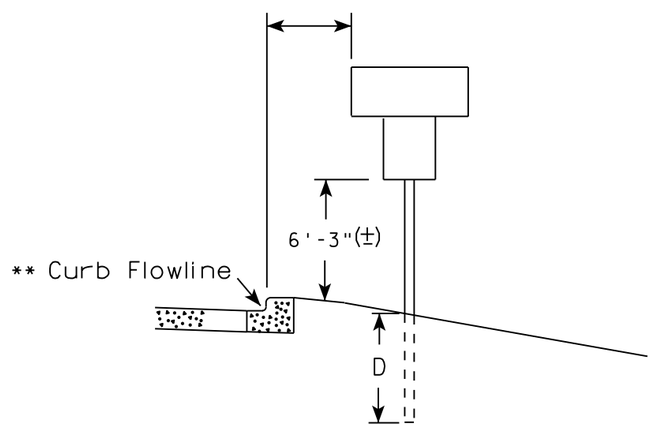
June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

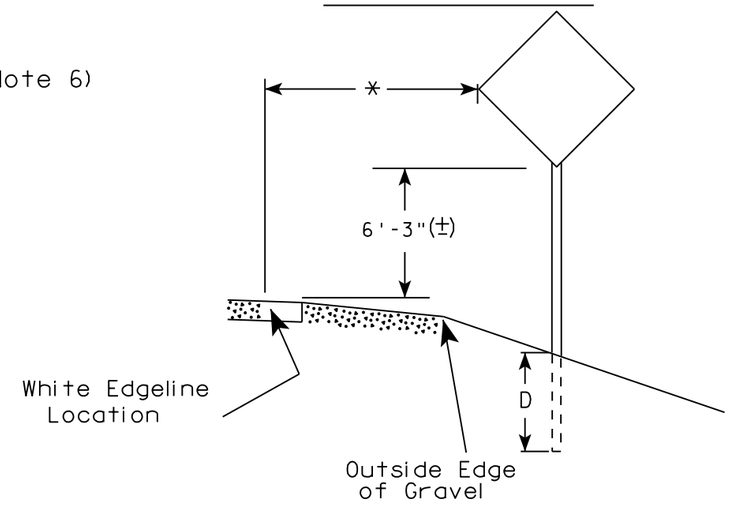
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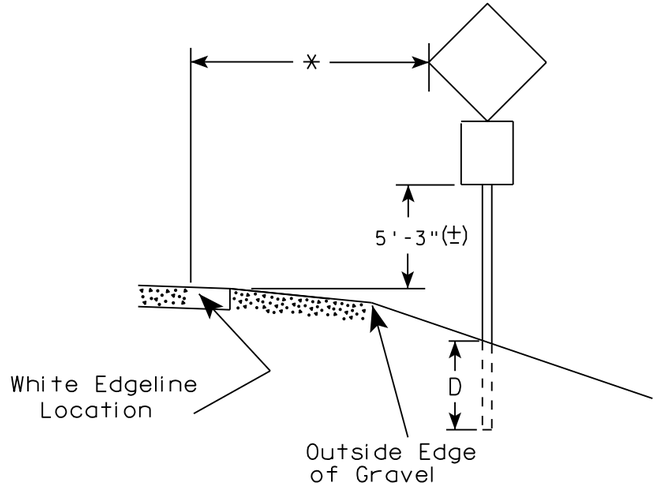
URBAN AREA





RURAL AREA (See Note 2)





GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

** 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. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

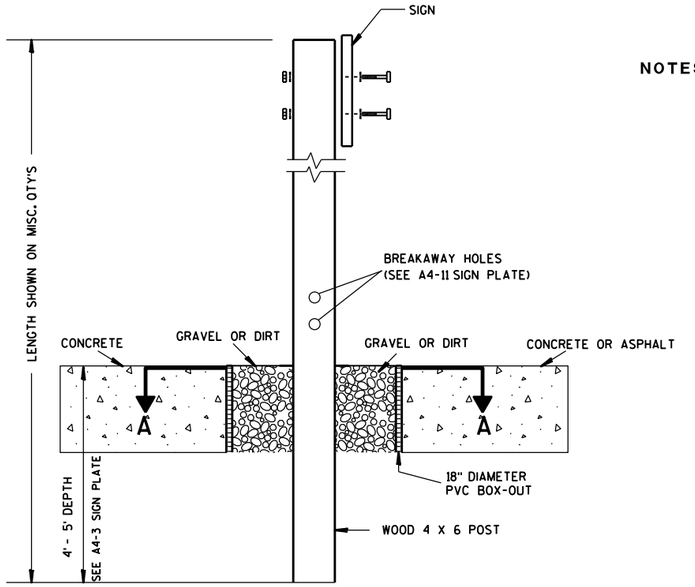
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

7

7

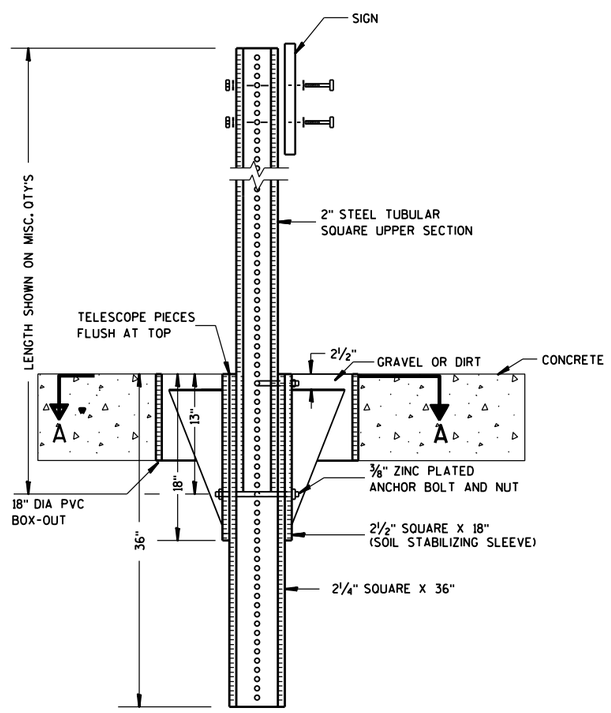
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 488	E



ELEVATION VIEW

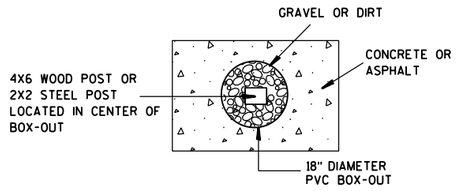
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

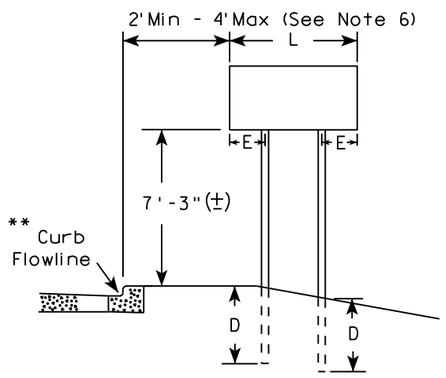
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

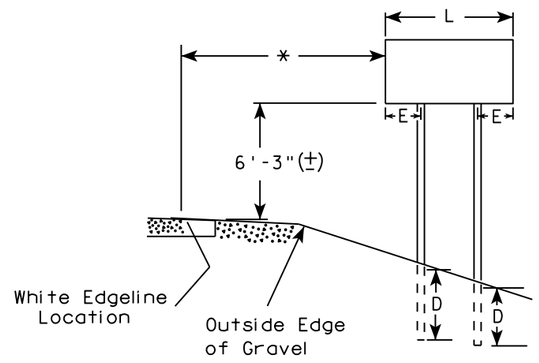
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

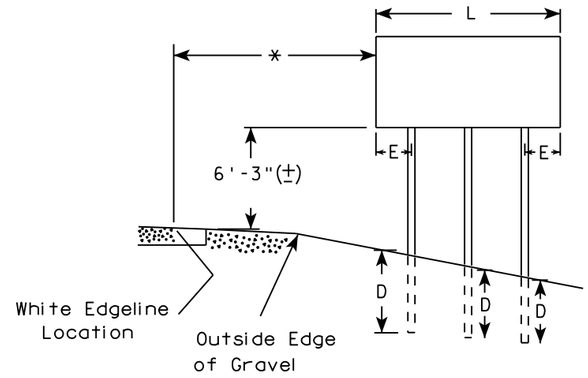
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WISDOT/CADDS SHEET 42

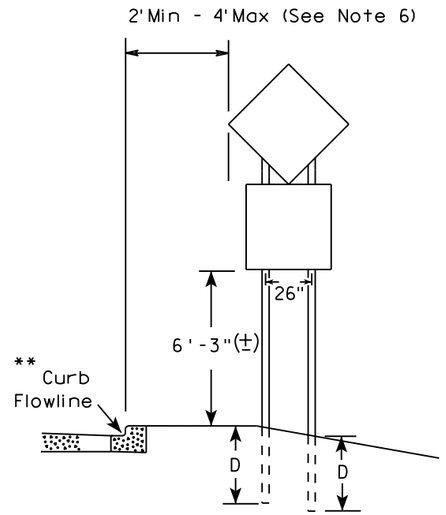
URBAN AREA



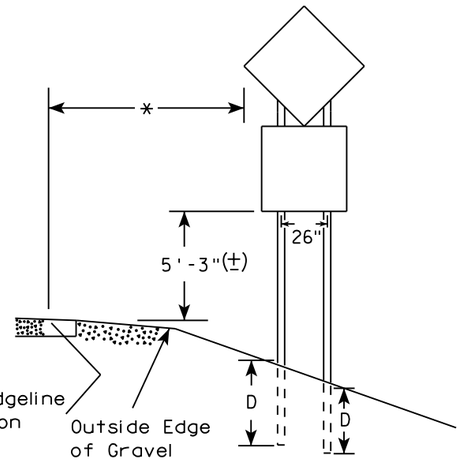
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 108"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** 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. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

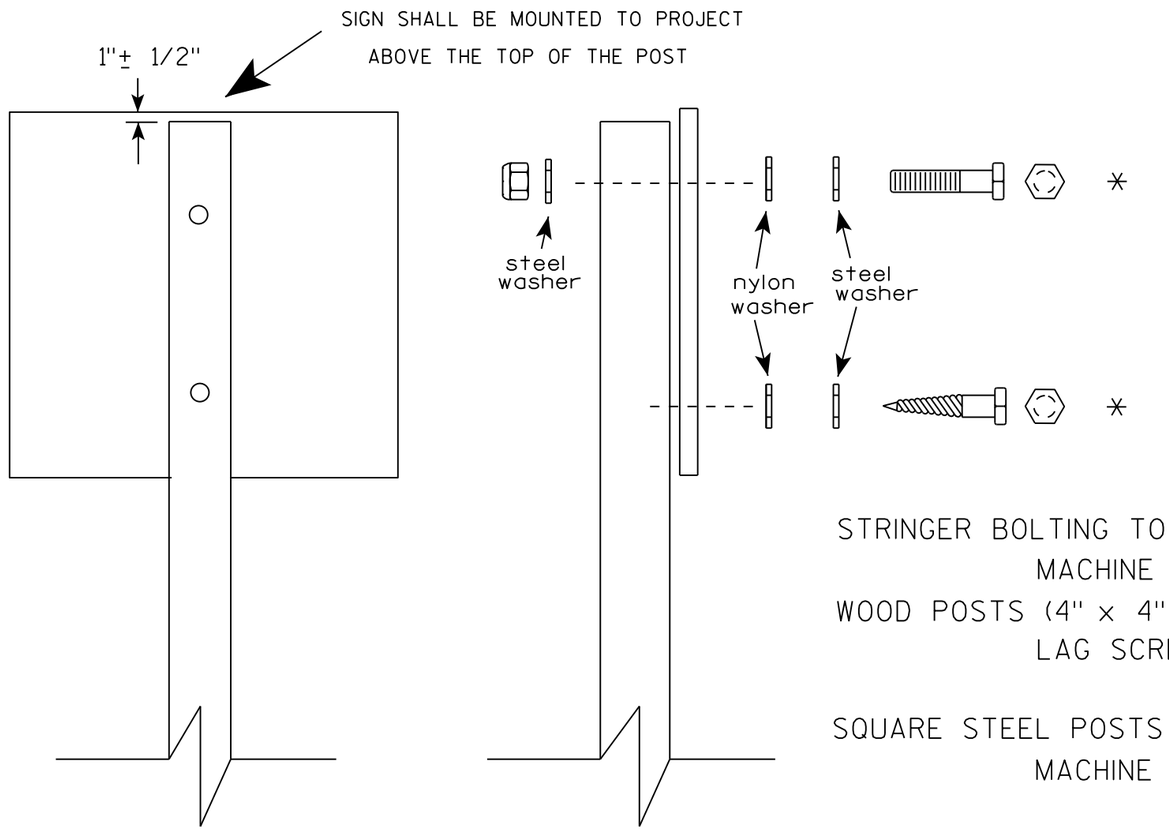
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 490	E



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.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)
SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
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

* 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, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

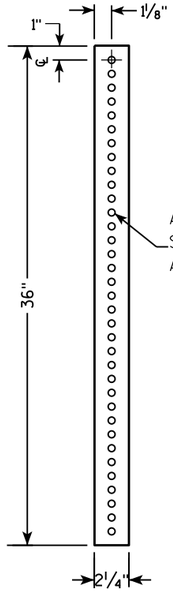
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

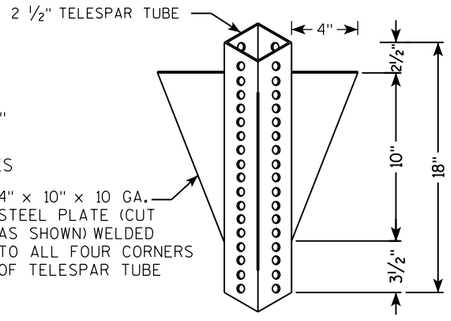
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TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

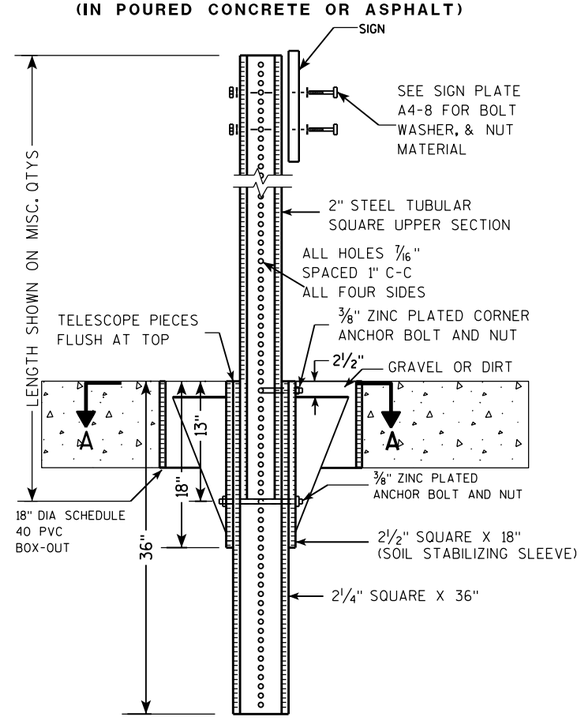
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



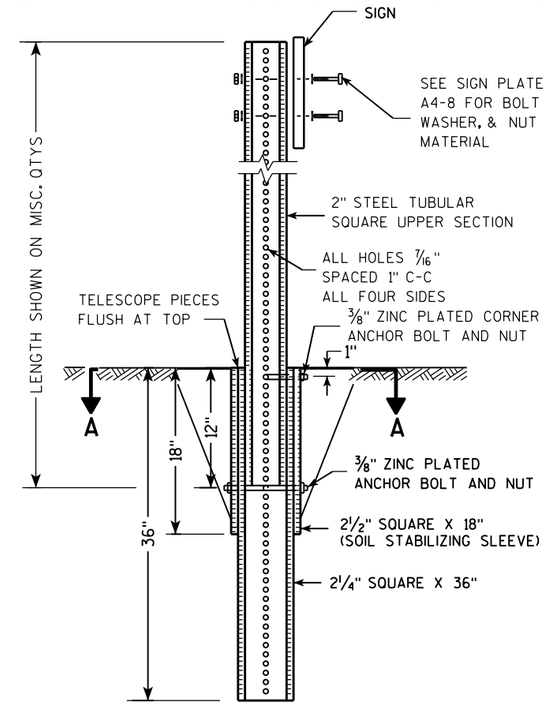
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

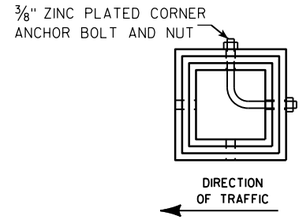


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required 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).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

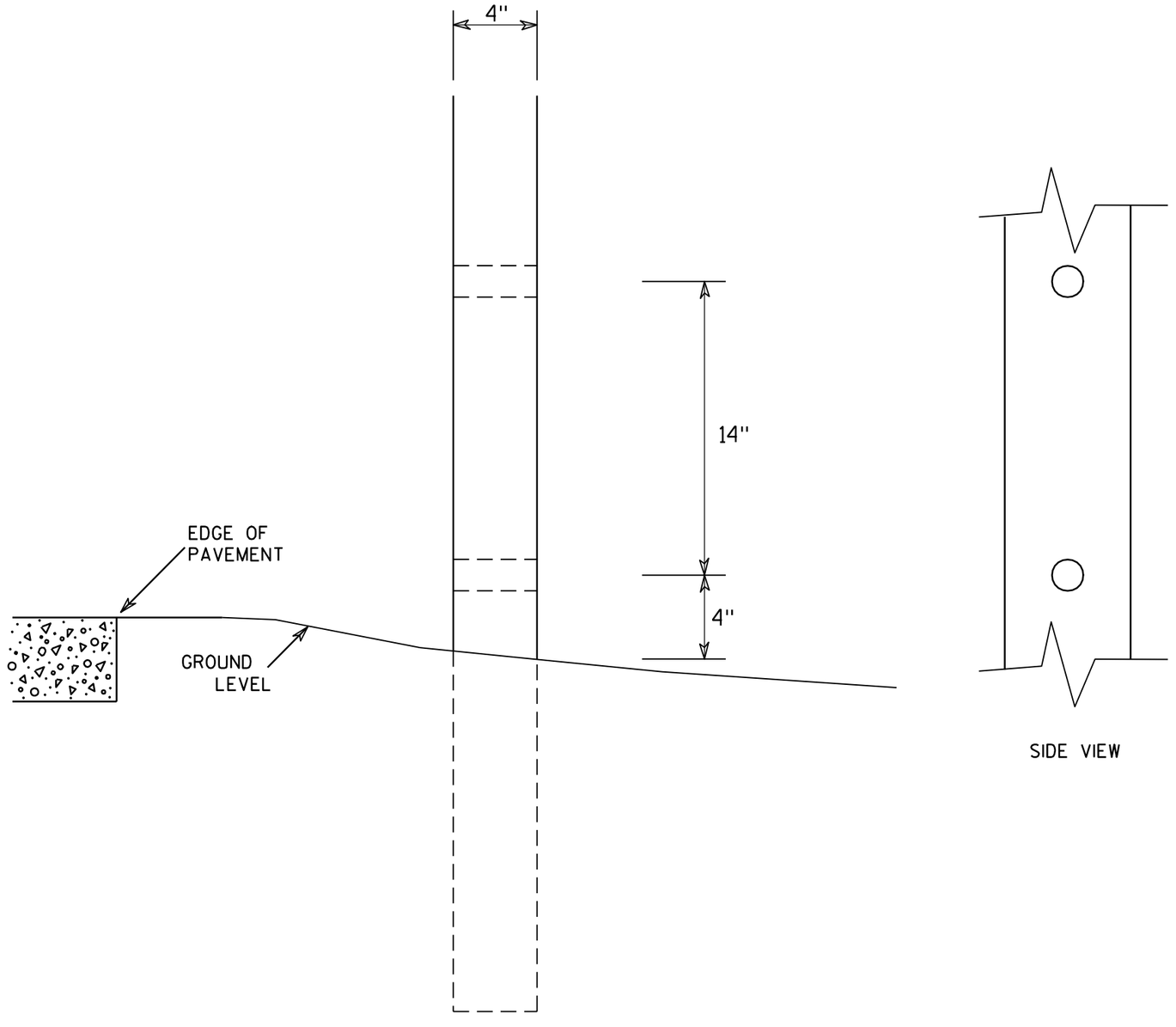
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 492 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

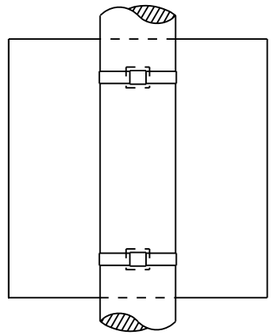
APPROVED Chester J Spang for State Traffic Engineer

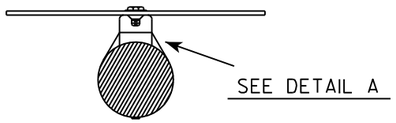
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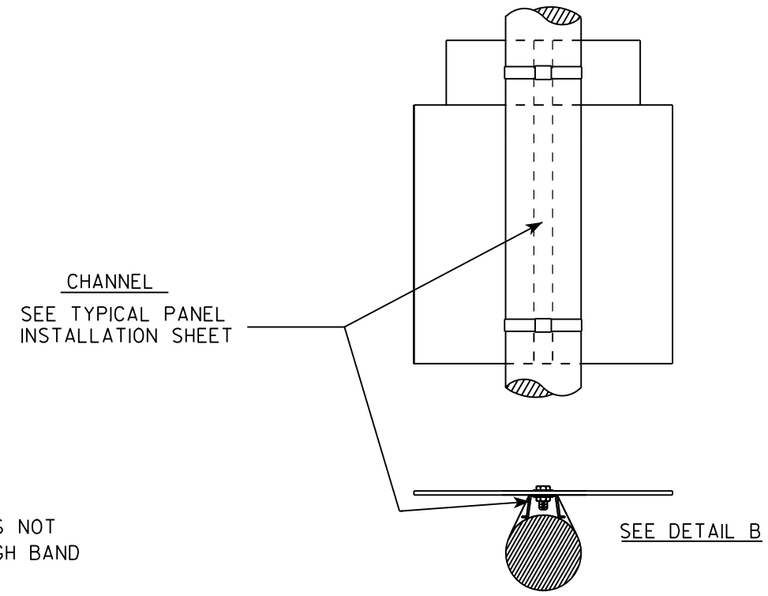
BANDING

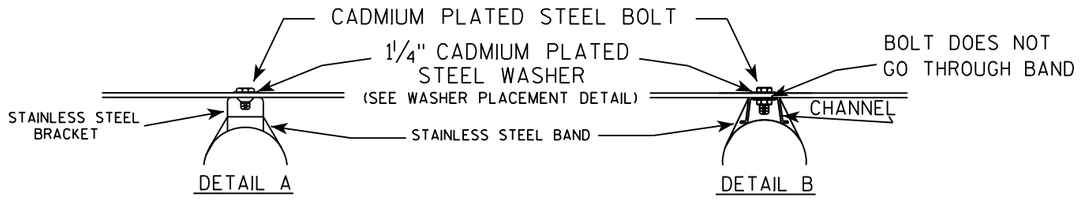
SINGLE SIGN



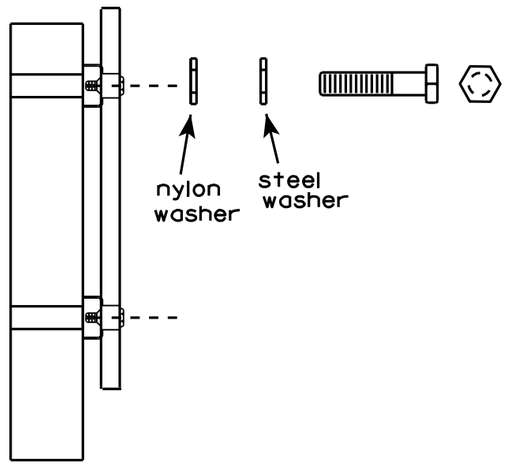


"J" ASSEMBLY





WASHER PLACEMENT



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

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

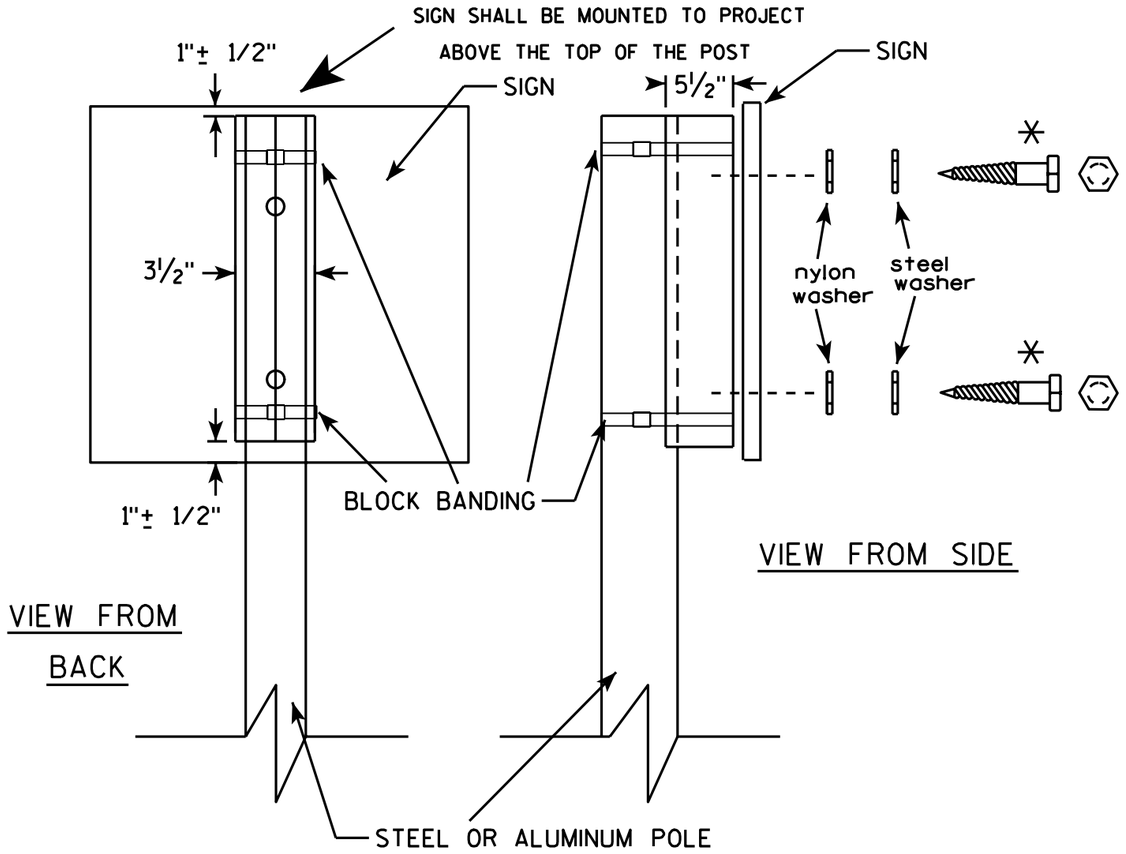
STANDARD SIGN
SIGN BANDING DETAILS

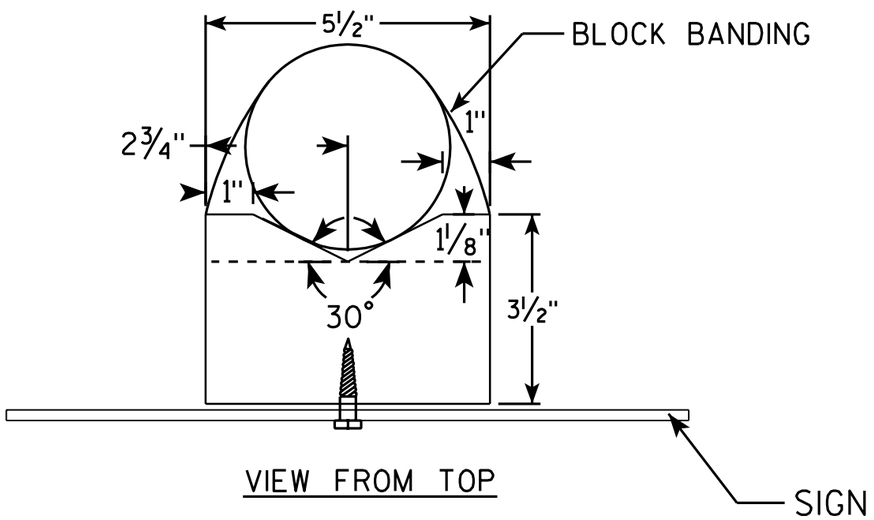
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 494	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

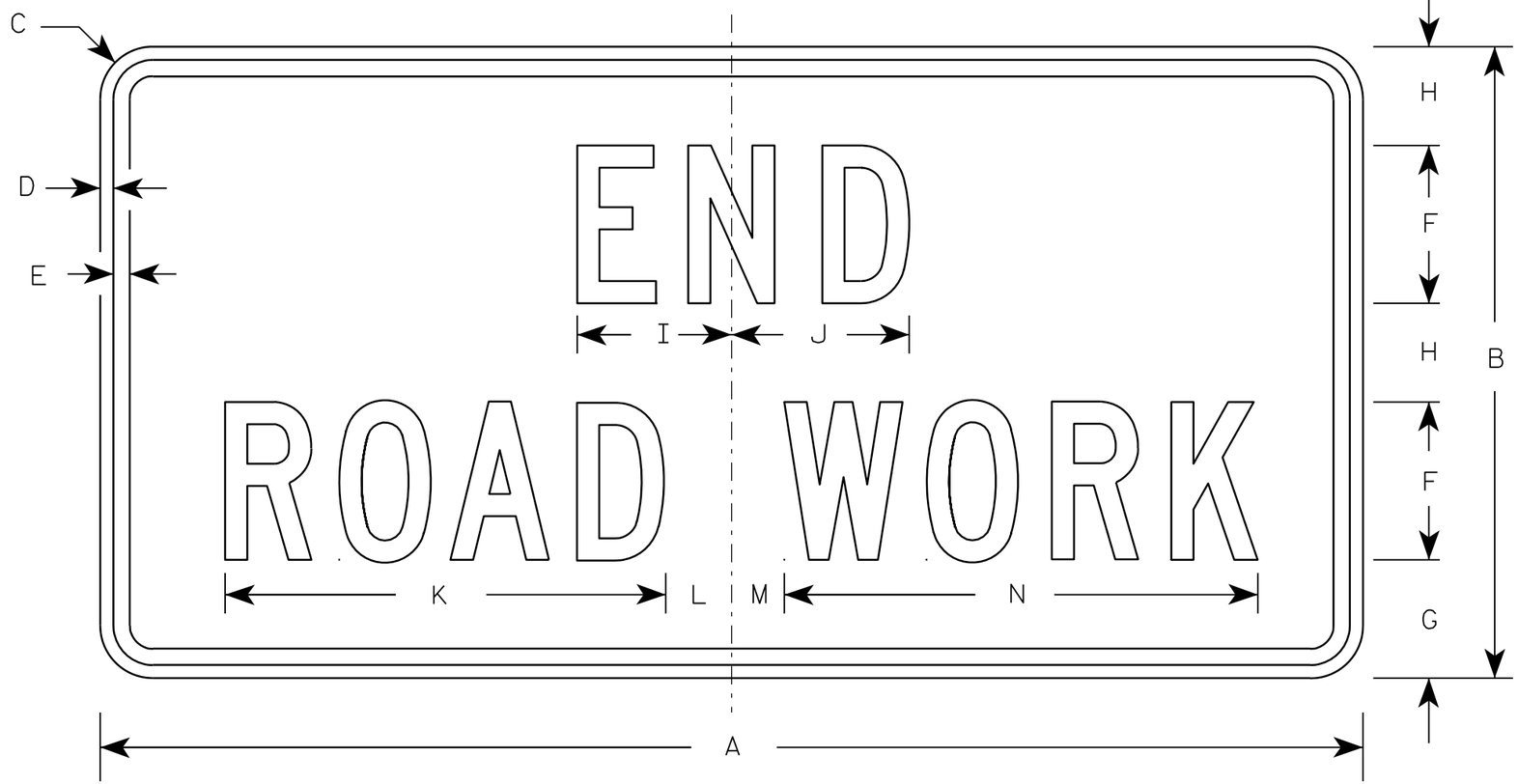
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 495 E

FILE NAME : C:\Users\Projects\tr_stdplate\A510.dgn PLOT DATE : 06-AUG-2007 13:37 PLOT BY : ditjph

WISDOT/CADDS SHEET 42



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
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.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

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.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

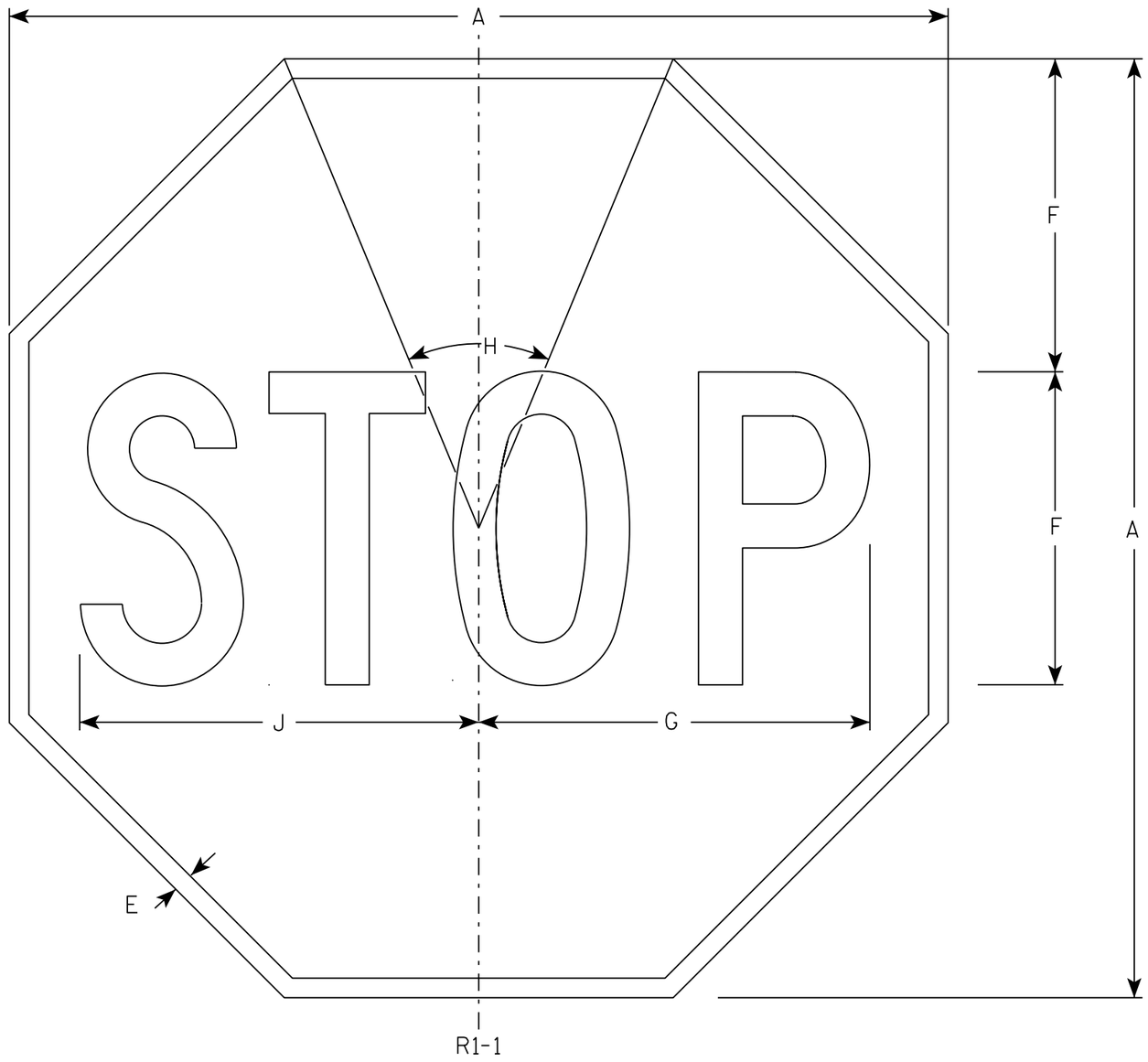
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 496	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

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

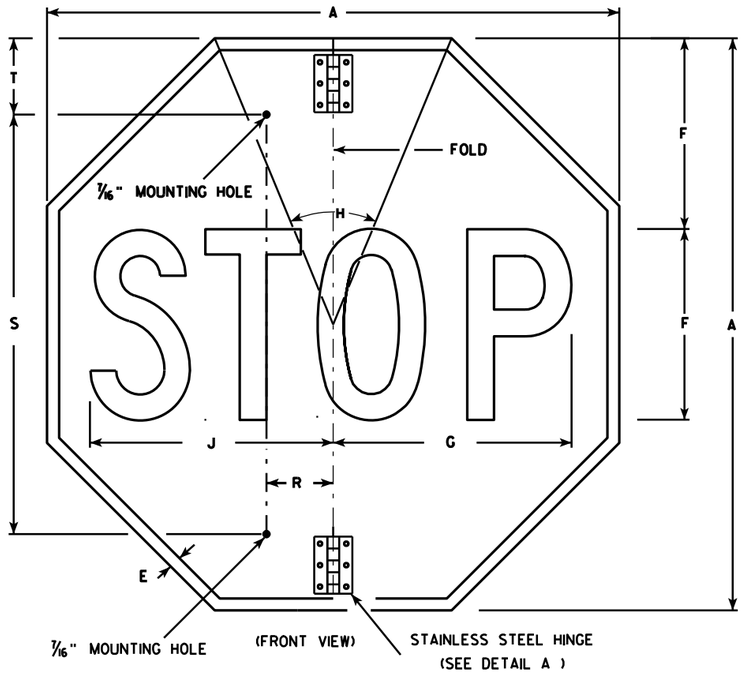
STANDARD SIGN
R1-1

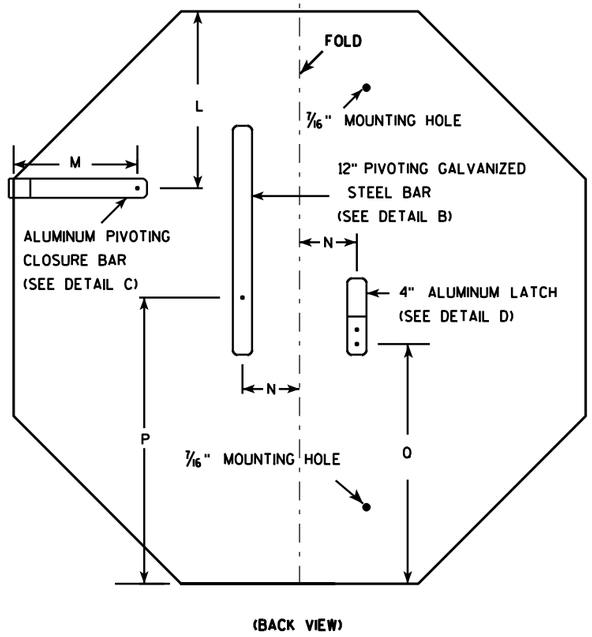
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

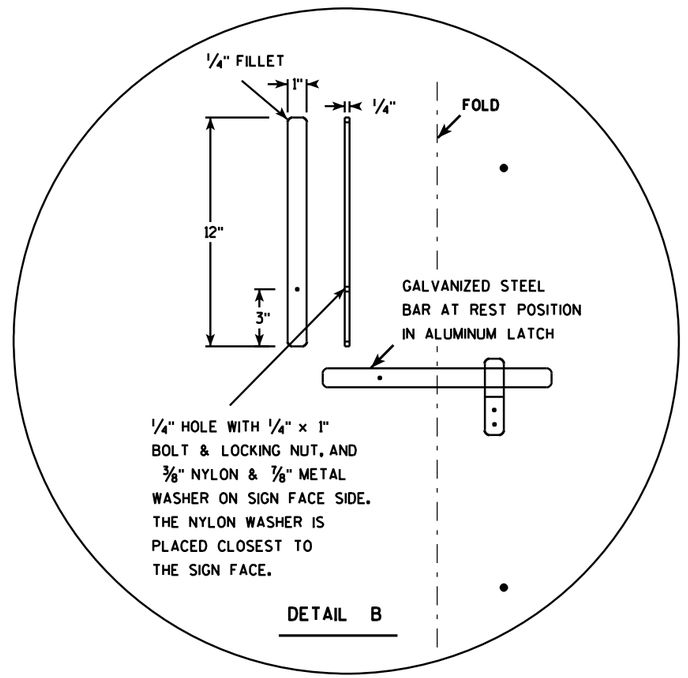
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 497	E



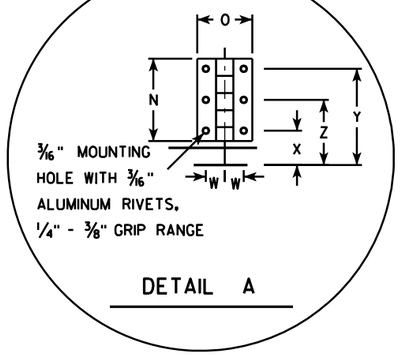


NOTES

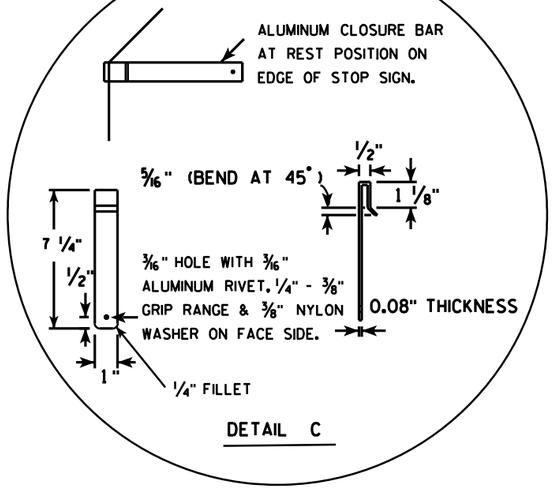
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



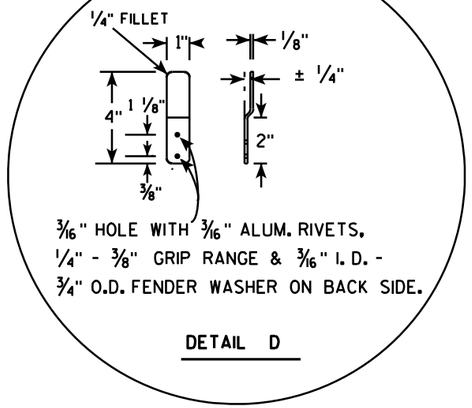
DETAIL B



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																											

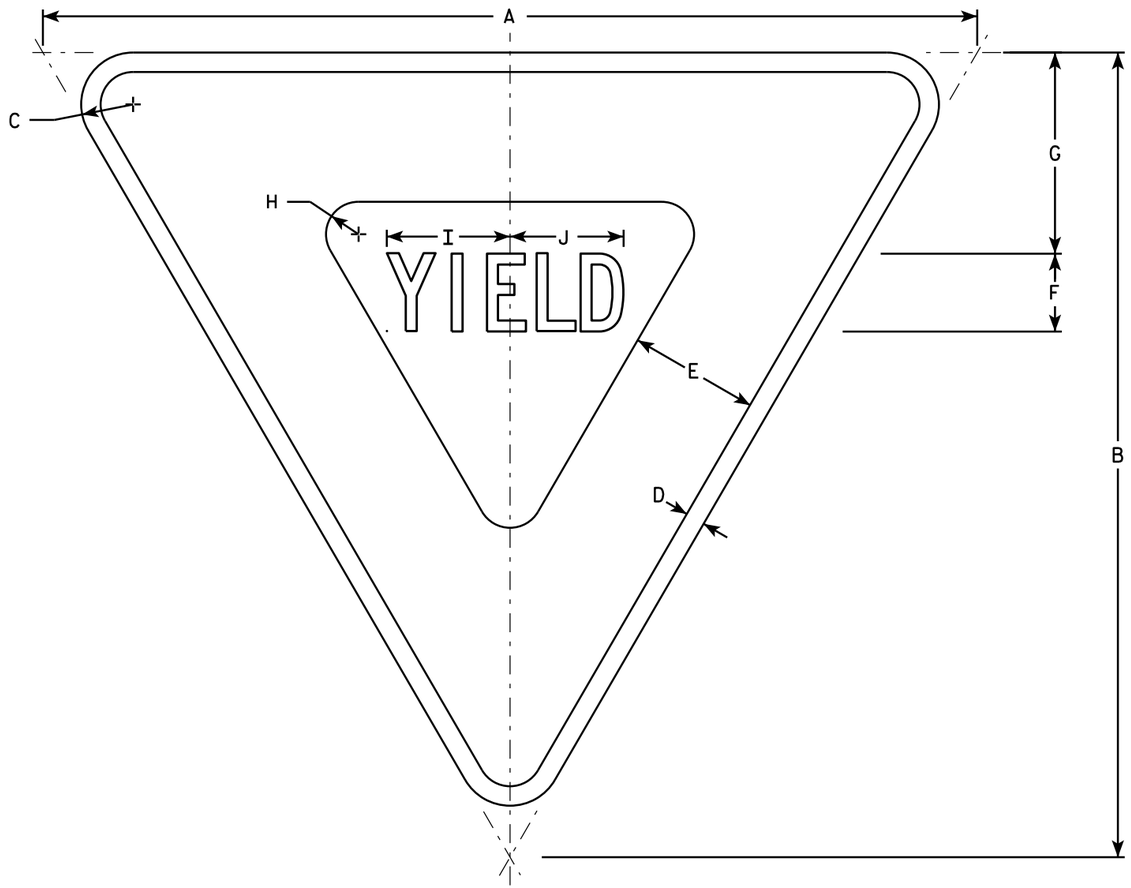
STANDARD SIGN
R1-1F

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: 498	E



R1-2

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 5
3. Message Series - C
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. The border strip and word message are reflectorized red.

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	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

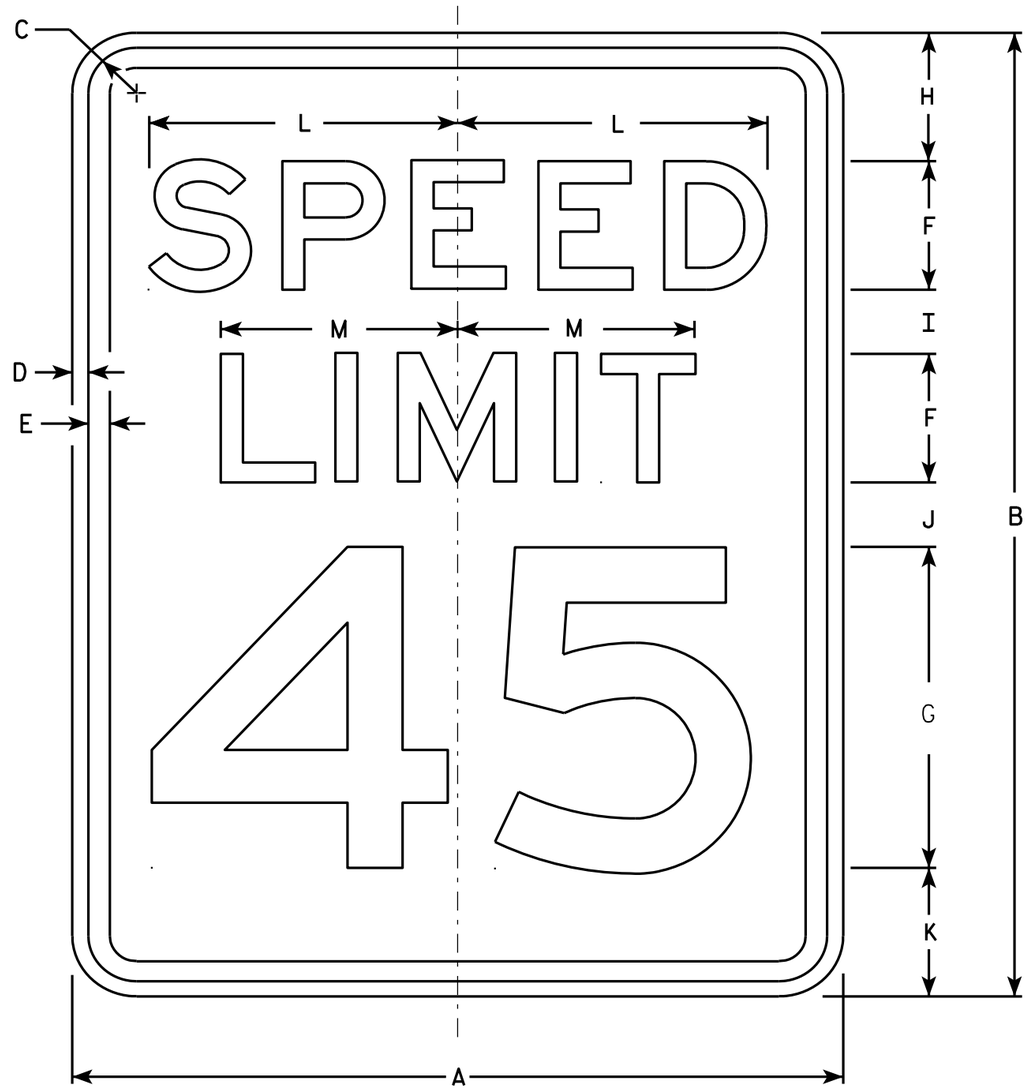
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



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

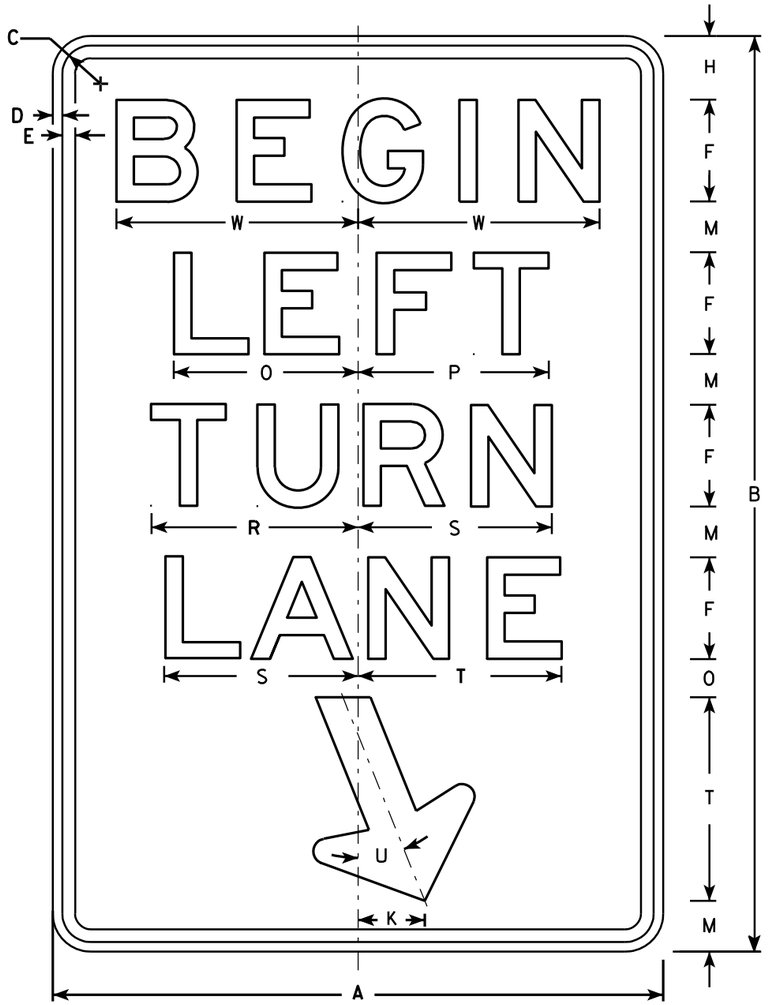
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 500 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000

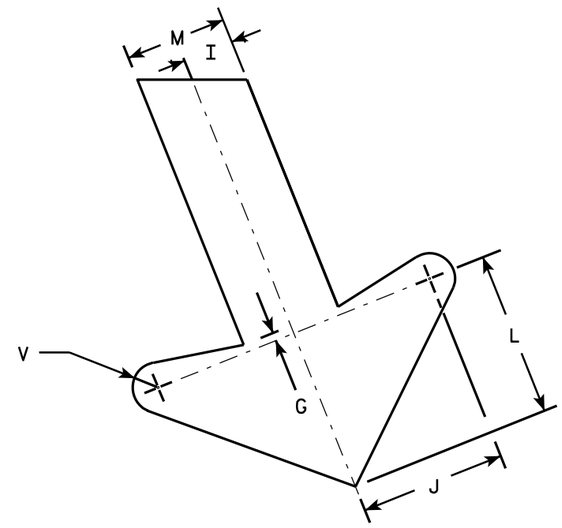
WISDOT/CADDS SHEET 42



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																											

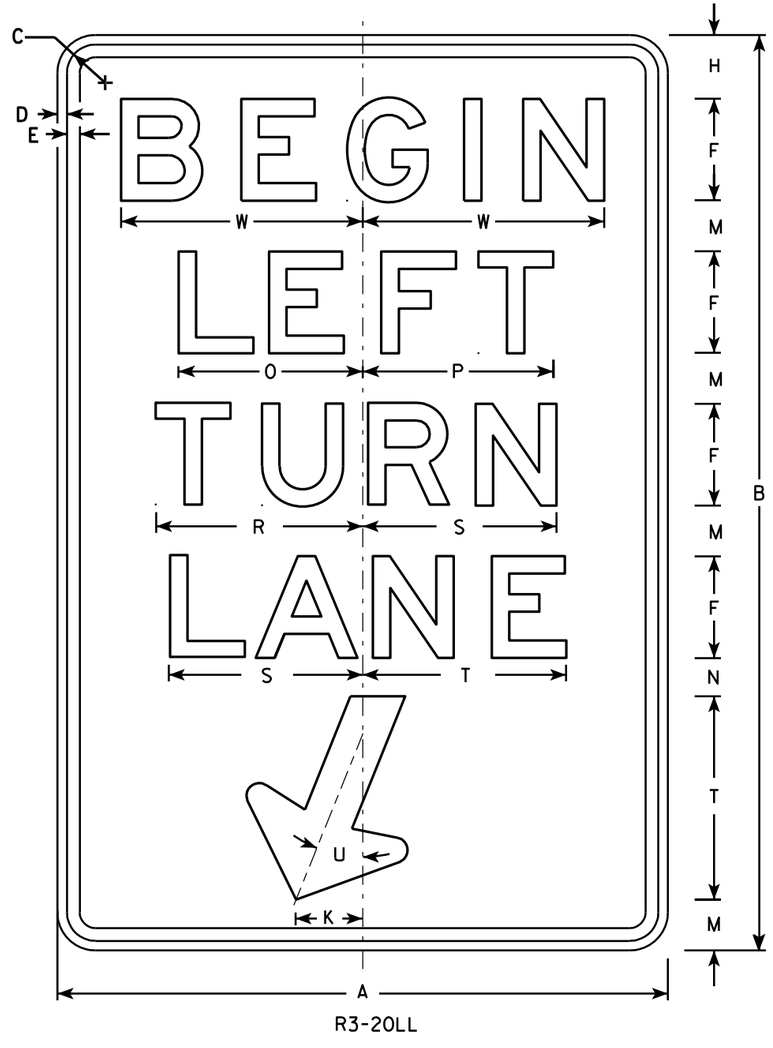
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

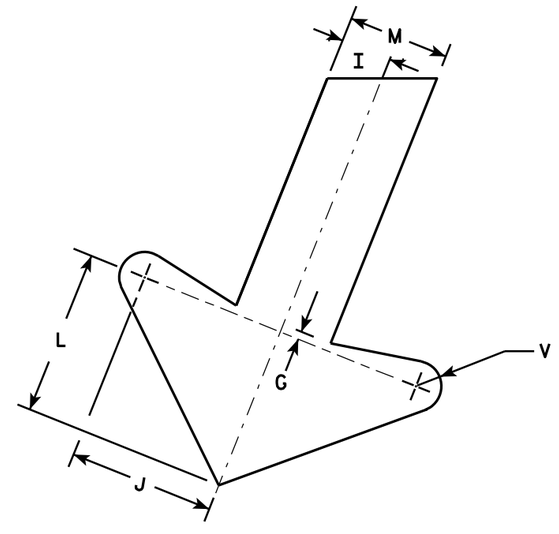
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 501 | E



R3-20LL

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																											

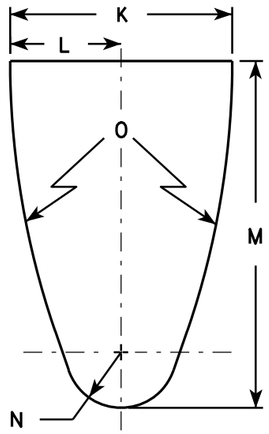
STANDARD SIGN
R3-20LL

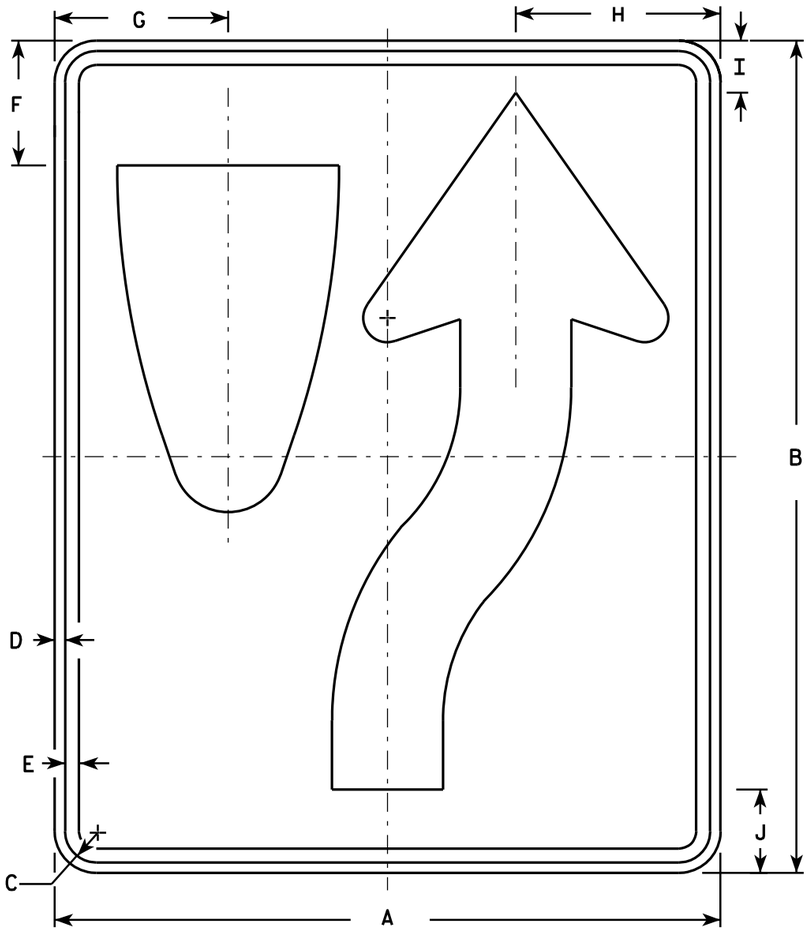
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20LL.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 502	E

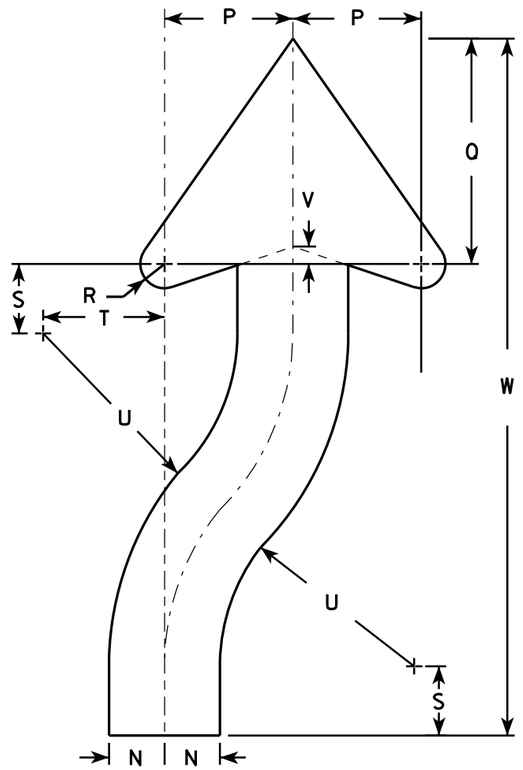




R4-7

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

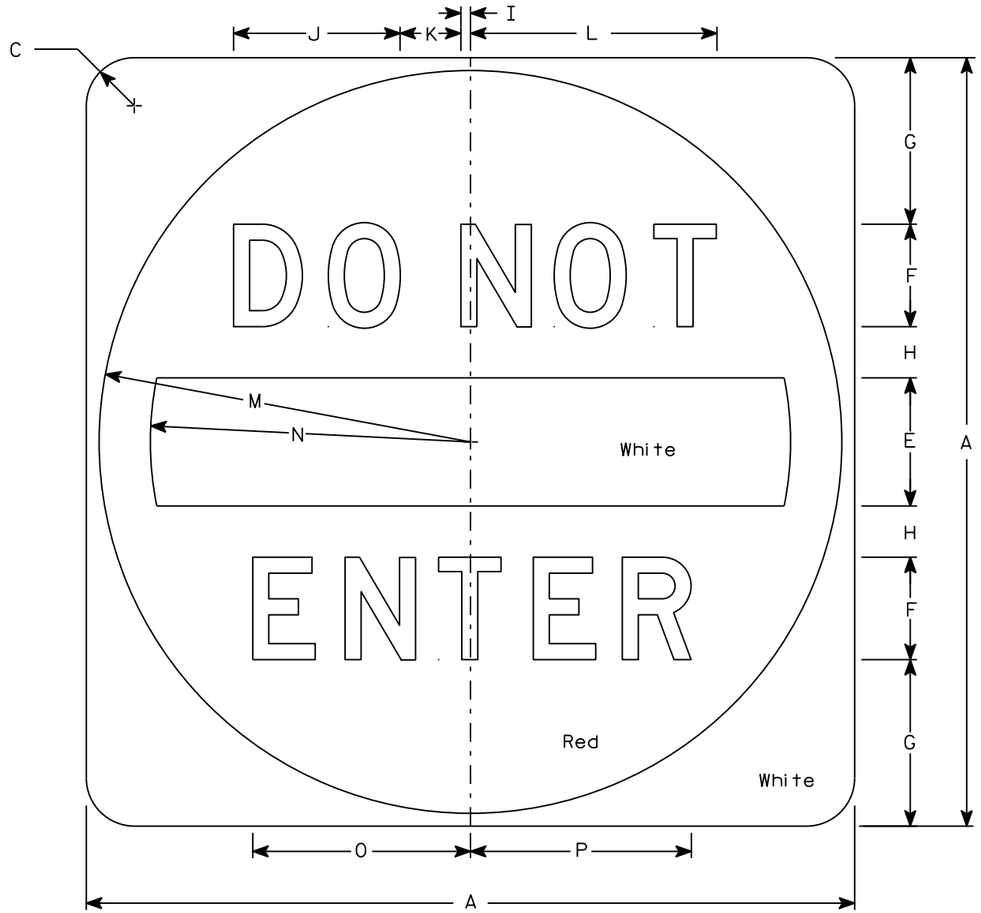
STANDARD SIGN
R4-7 & R4-8

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: 503	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

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		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

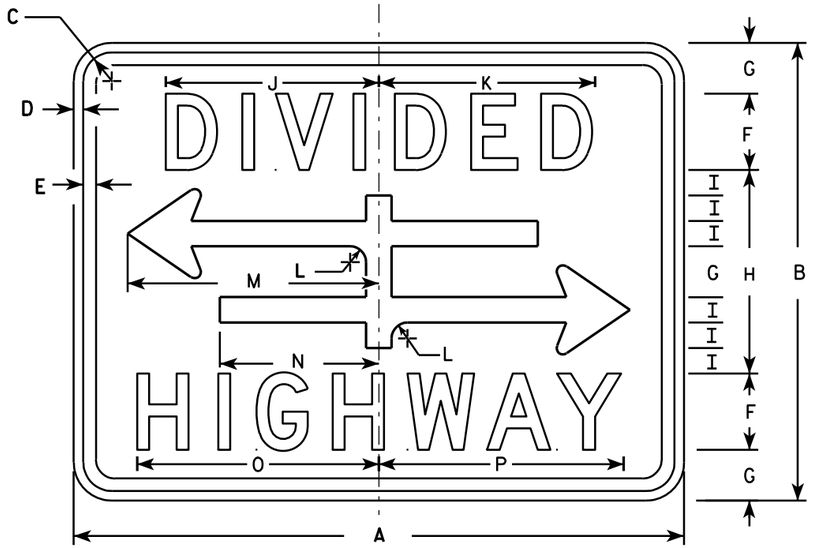
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

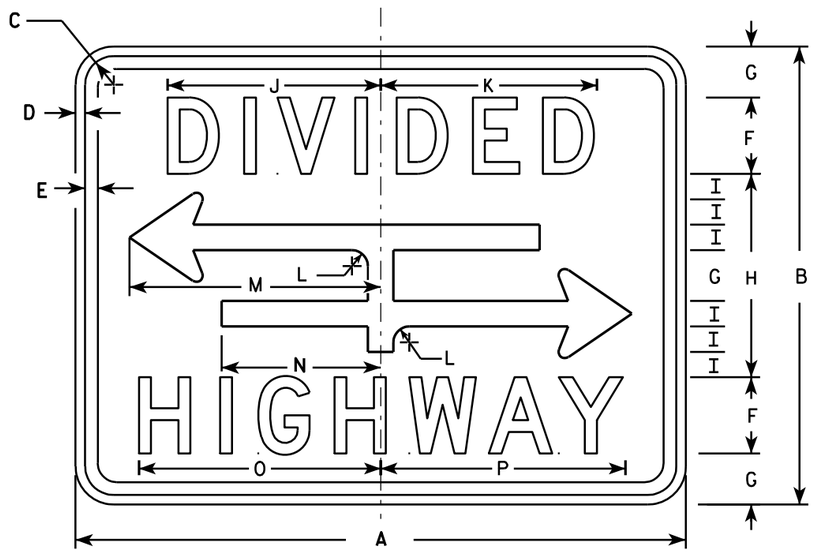
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 504 | E



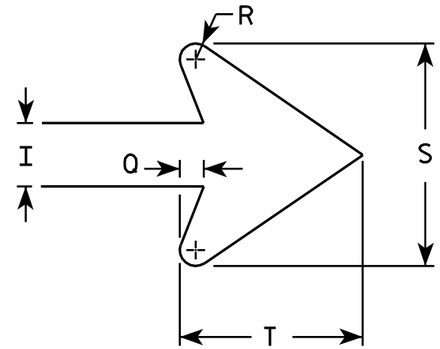
R6-3

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.



R6-3A



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	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN
R6-3 & R6-3A

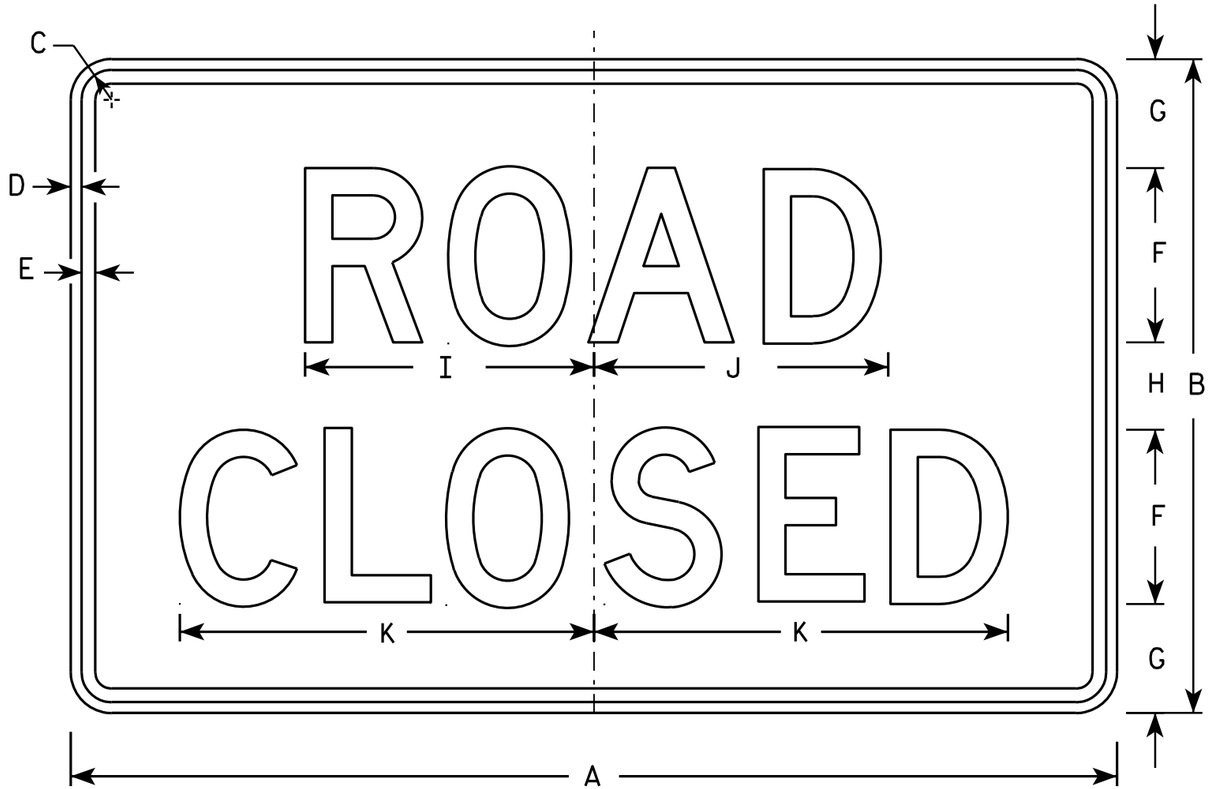
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

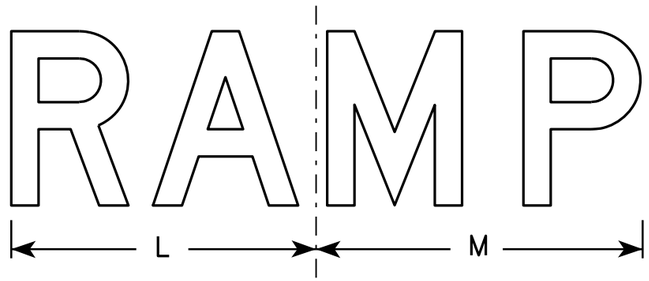
SHEET NO: 505 E



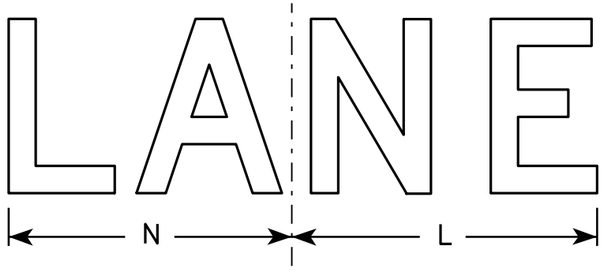
R11-2

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 - 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. Modify the message as required.



R11-2R



R11-2L

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	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

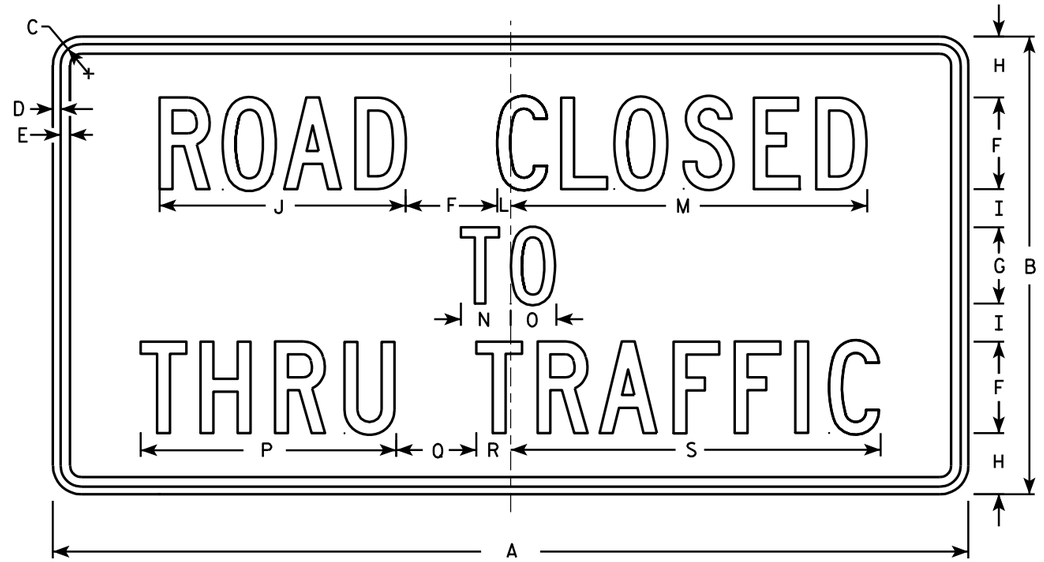
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 506	E



R11-4

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 - C
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																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

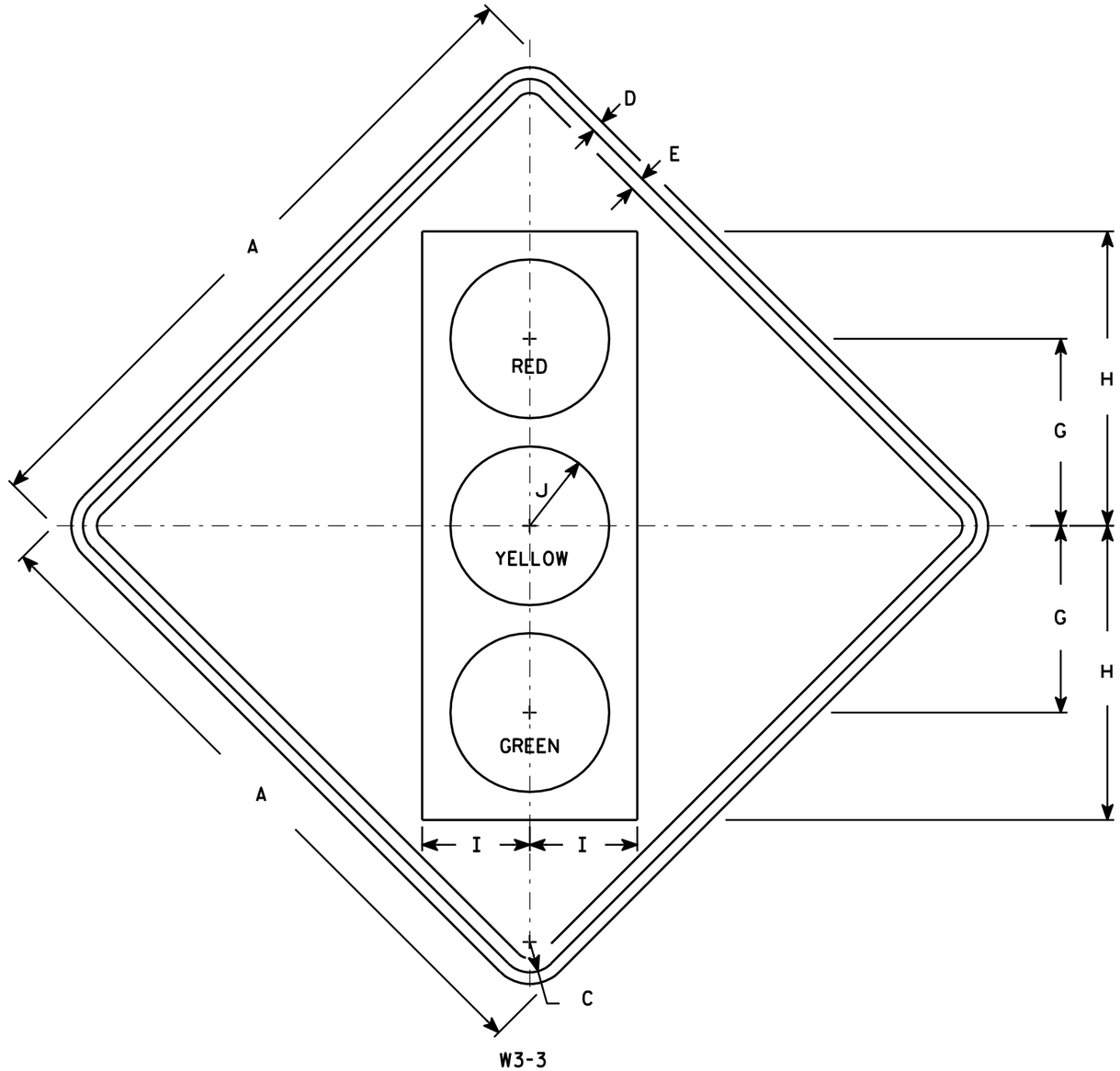
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 507 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   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. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

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		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN
W3-3

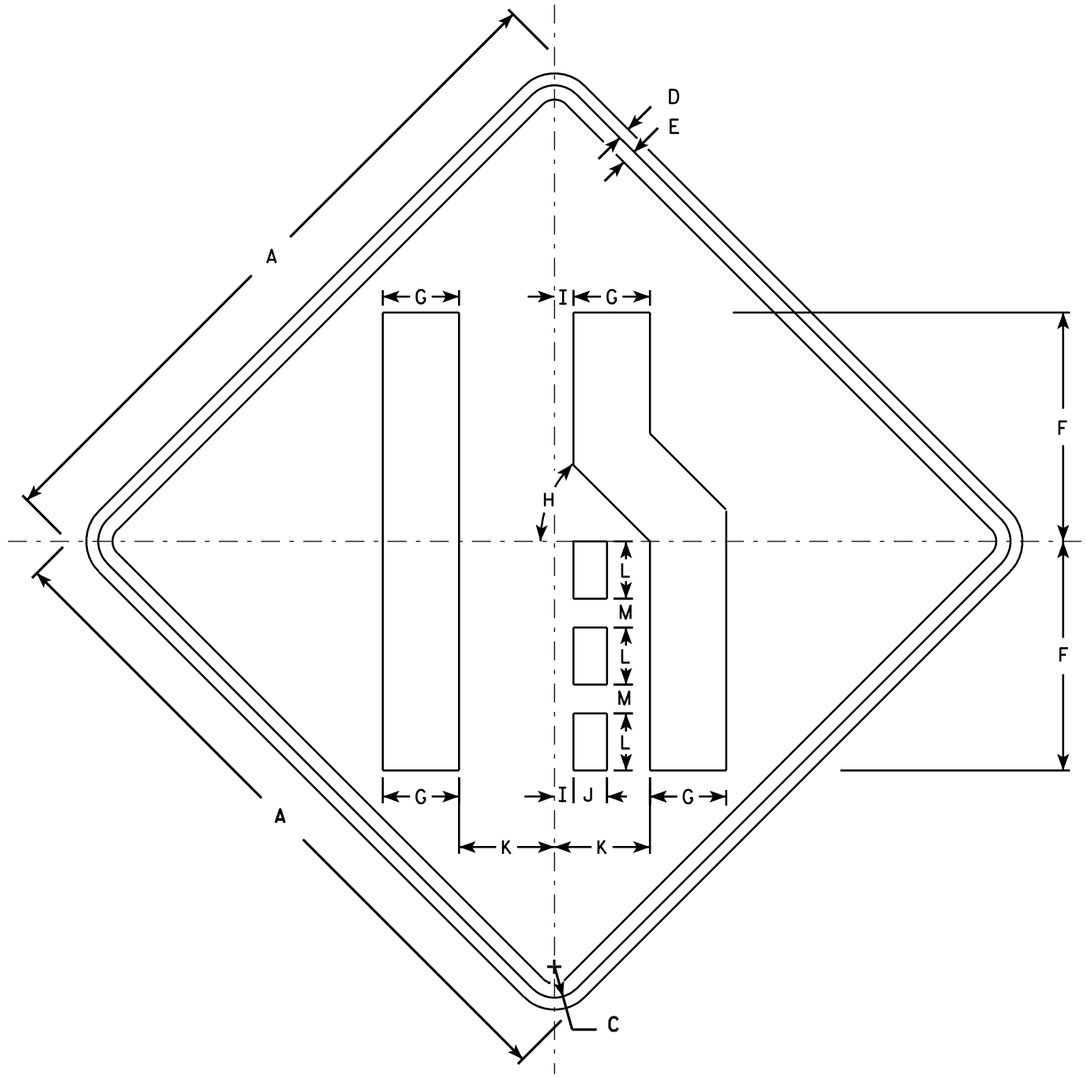
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 508 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W33.DGN PLOT DATE : 07-JUN-2010 13:07 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 7.448805:1.000000
WISDOT/CADDS SHEET 42



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
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. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

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	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

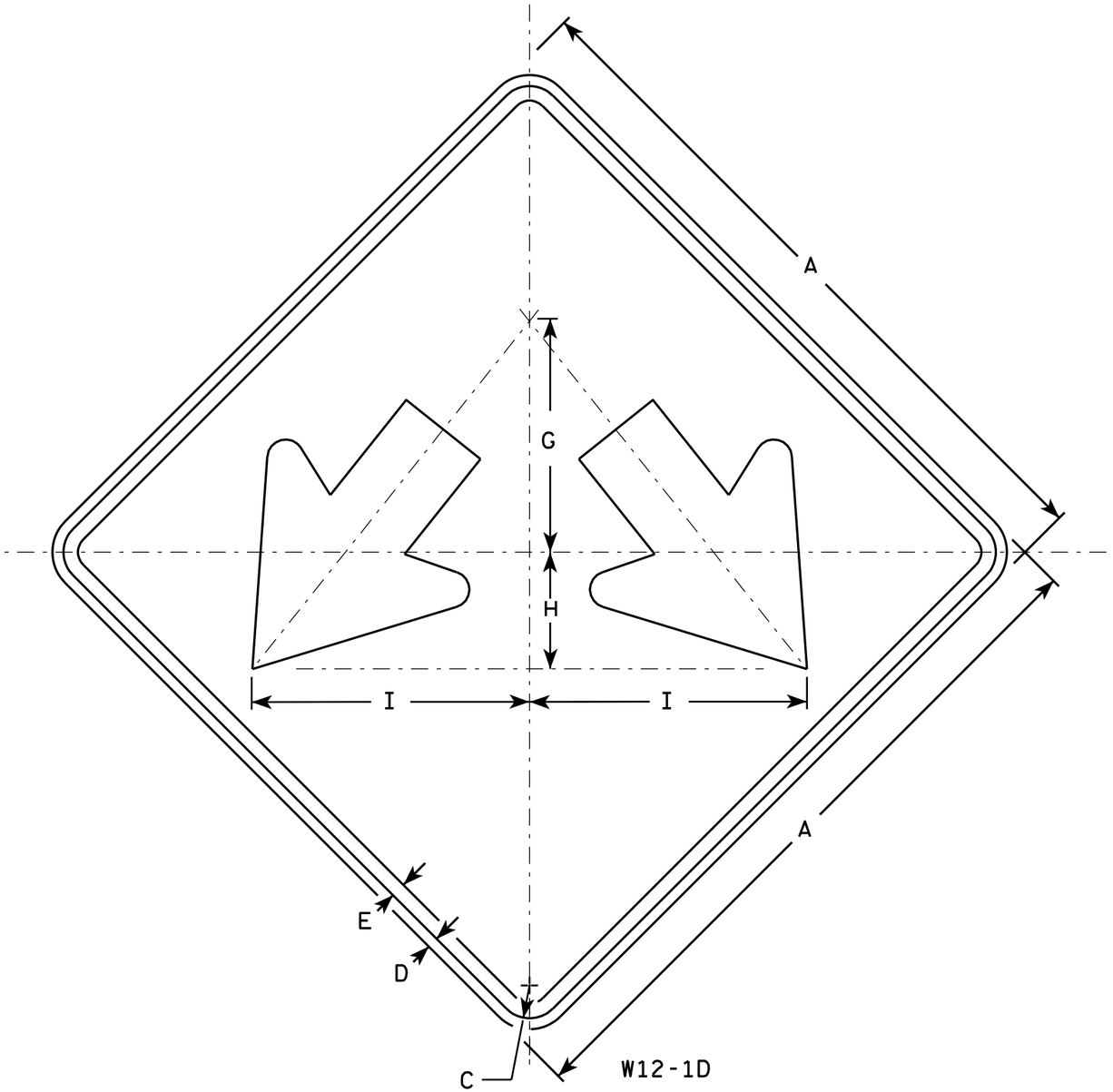
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

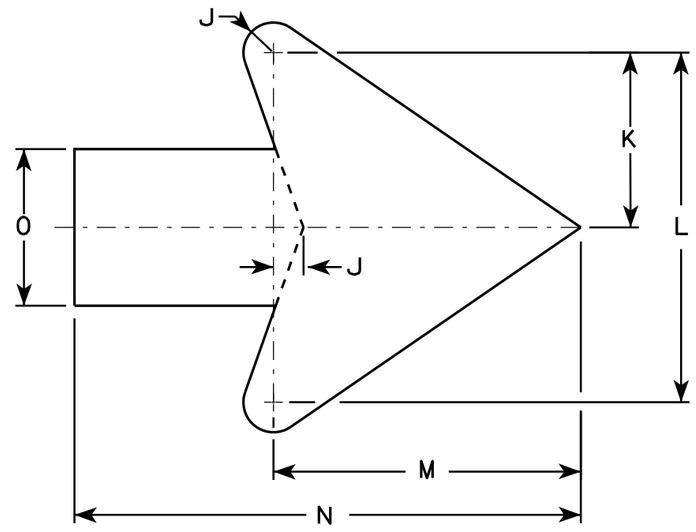
PROJECT NO:

SHEET NO: 509 E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
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.



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		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

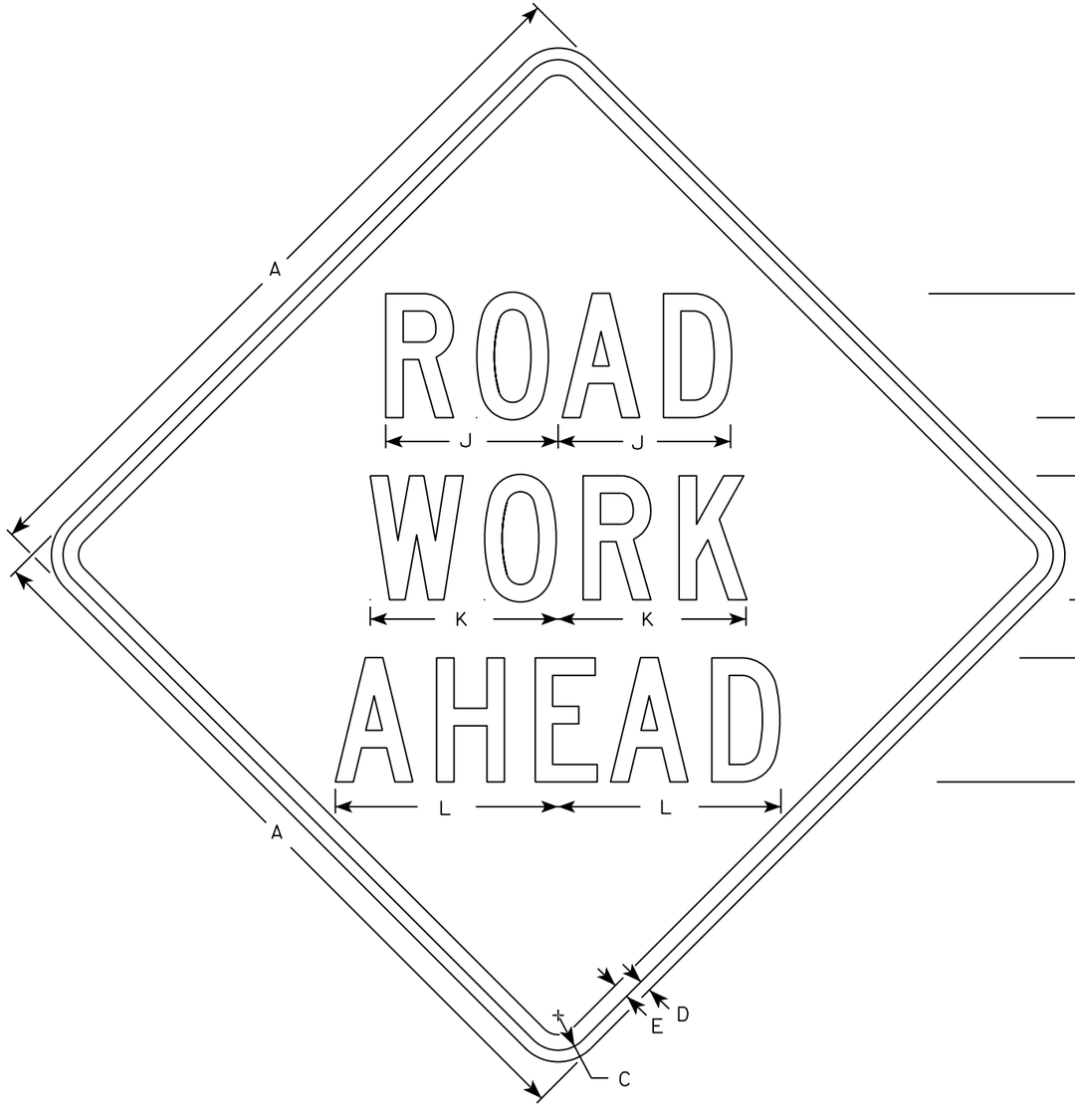
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

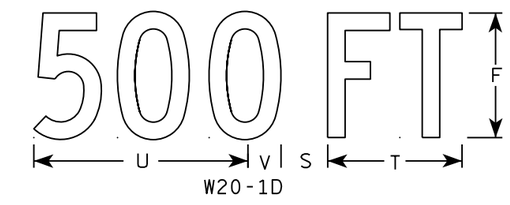
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 510 | E

7

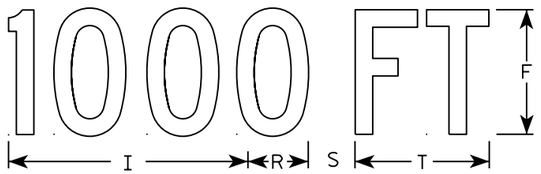
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W121D.DGN PLOT DATE : 13-MAR-2013 13:26 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 4.713802:1.000000
WISDOT/CADDS SHEET 42



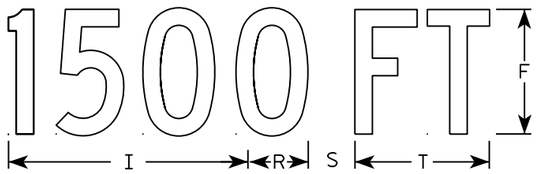
W20-1A



W20-1D



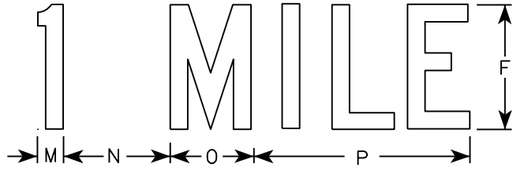
W20-1C



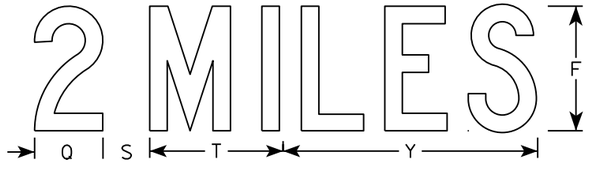
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
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	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

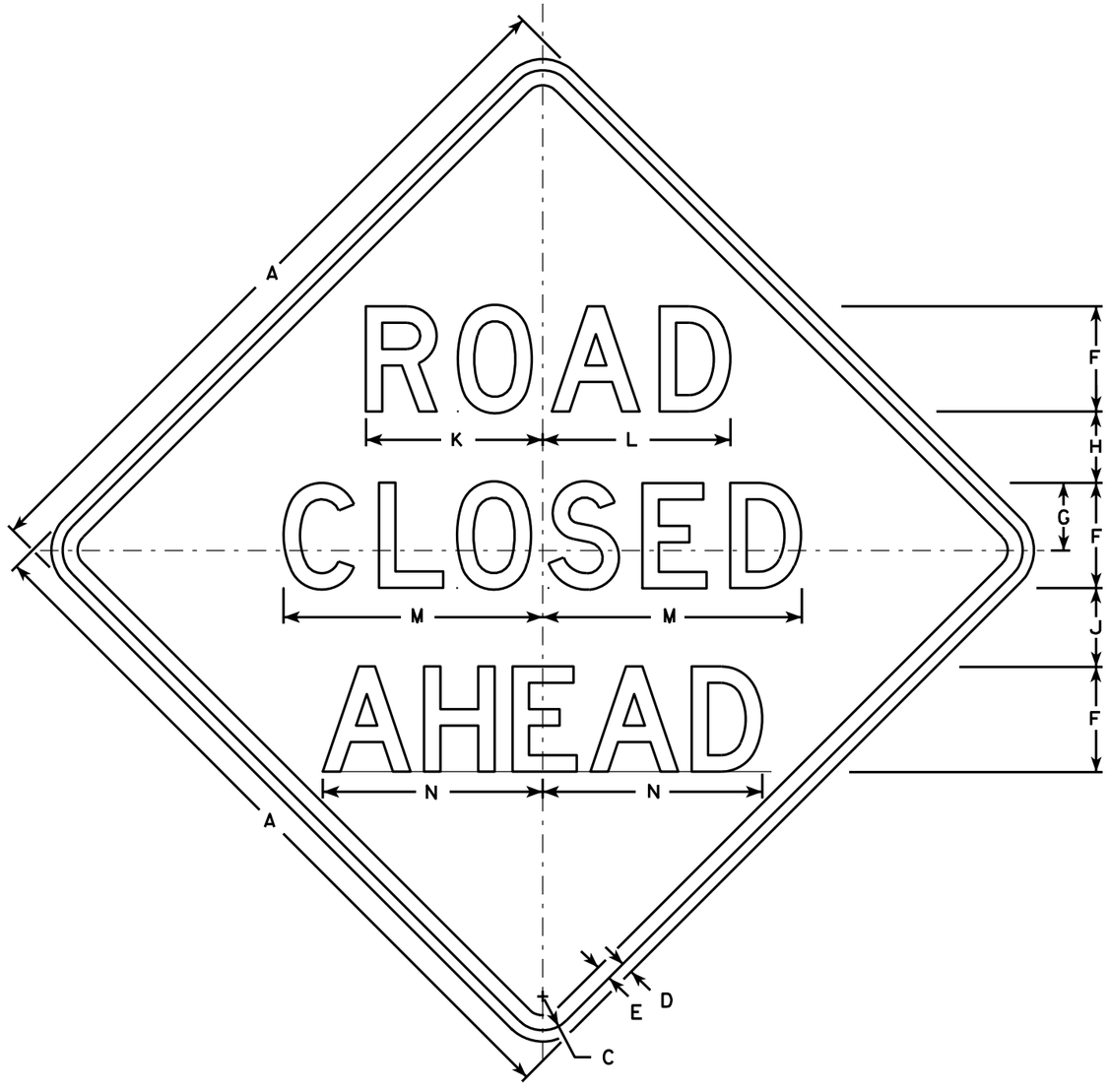
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

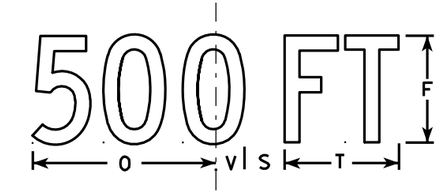
PROJECT NO:

SHEET NO: E

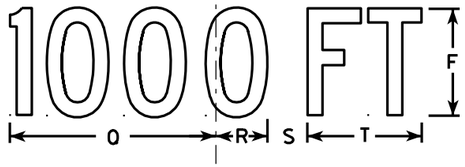
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



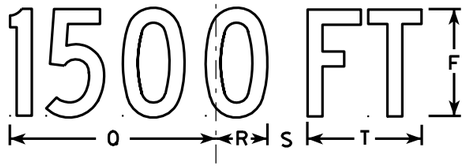
W20-3A



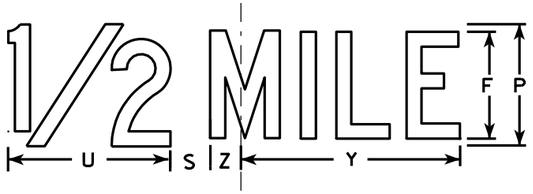
W20-3D



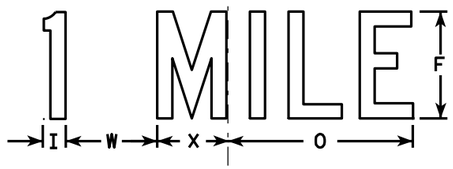
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

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	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

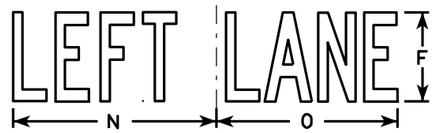
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

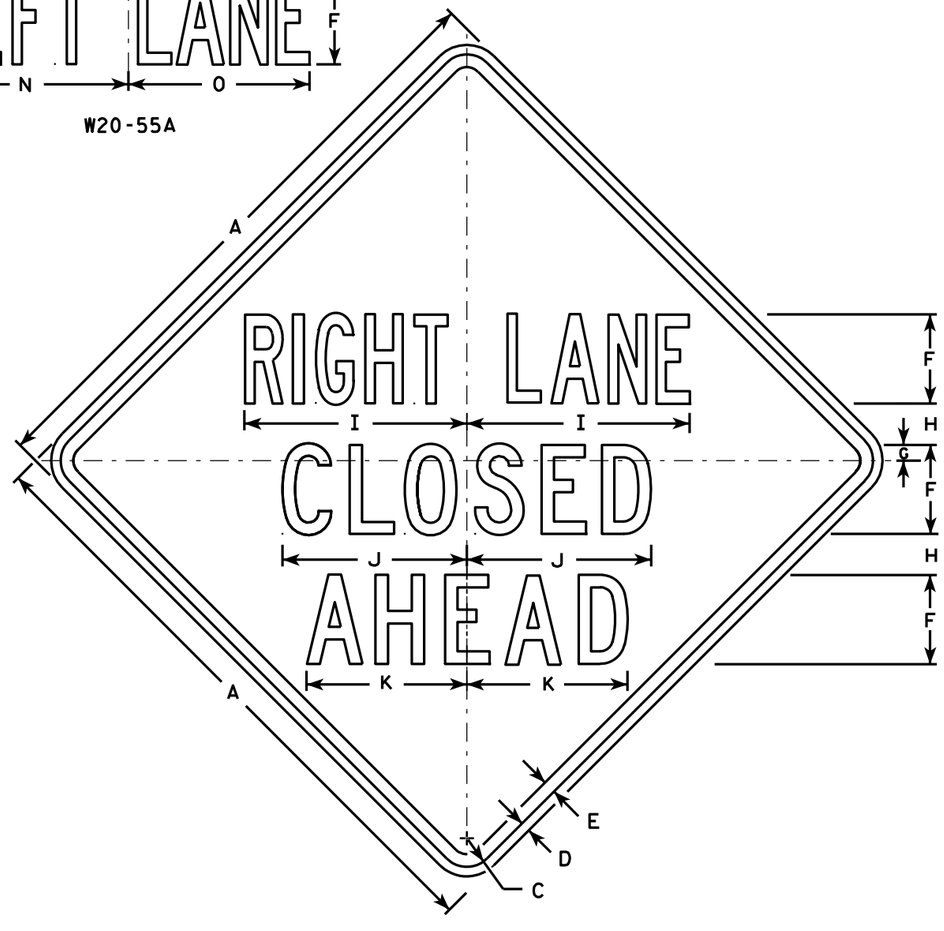
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 512 | E



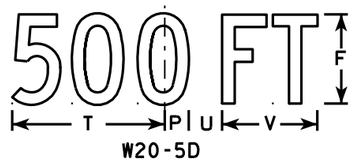
W20-56A



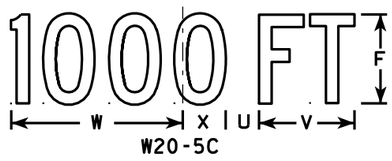
W20-55A



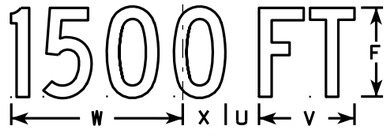
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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. " _____ LANE" is Series B.
   All other copy is 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	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

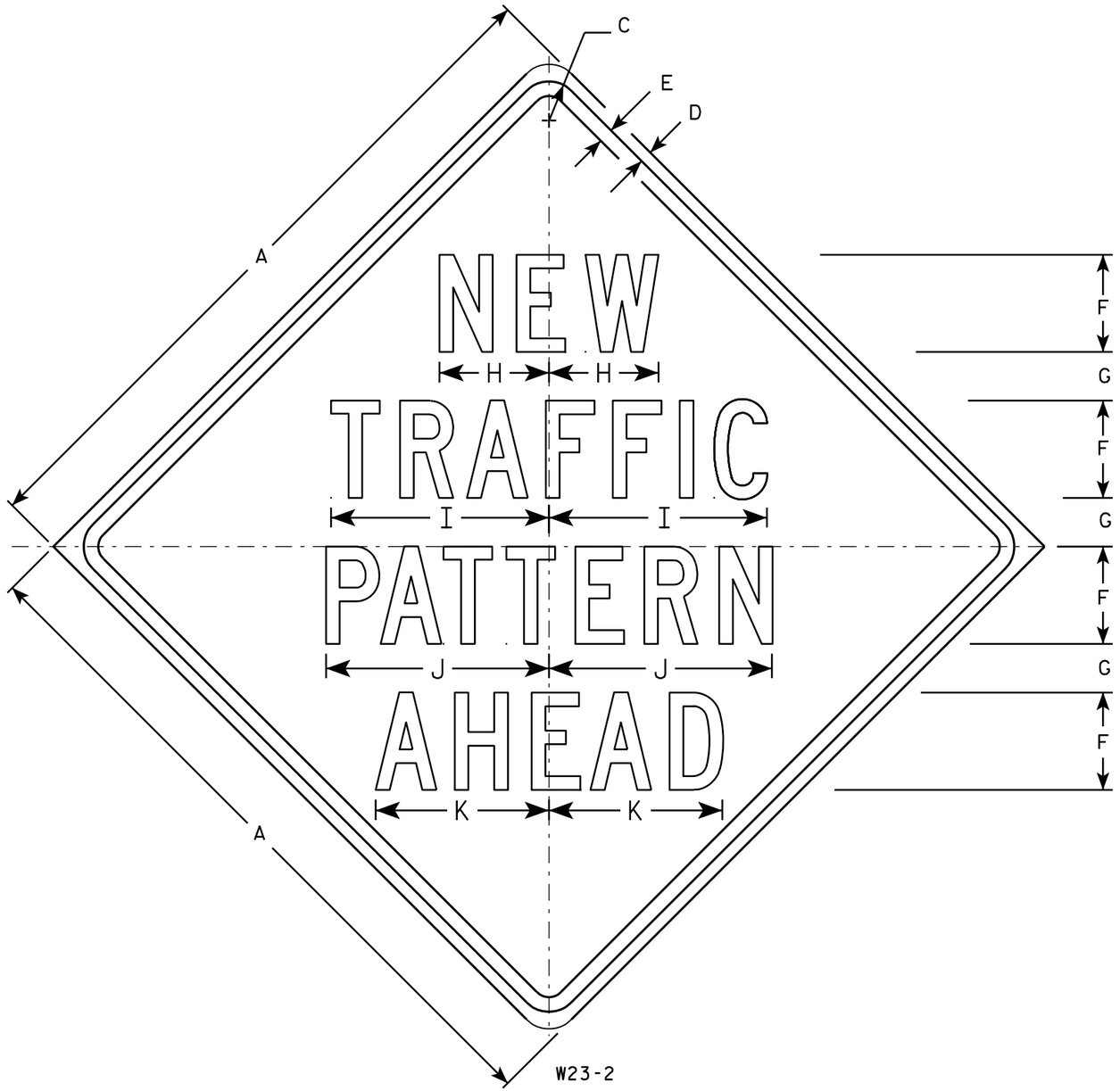
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 513	E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



NOTES

1. Sign isType II - Type F Reflective - reference WIS DOT Standard Specification forHIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C
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																											
2S	36		1 5/8	5/8	3/4	5	2 1/2	5 5/8	11 1/4	11 1/2	8 7/8																9.0
2M	36		1 5/8	5/8	3/4	5	2 1/2	5 5/8	11 1/4	11 1/2	8 7/8																9.0
3																											
4																											
5																											

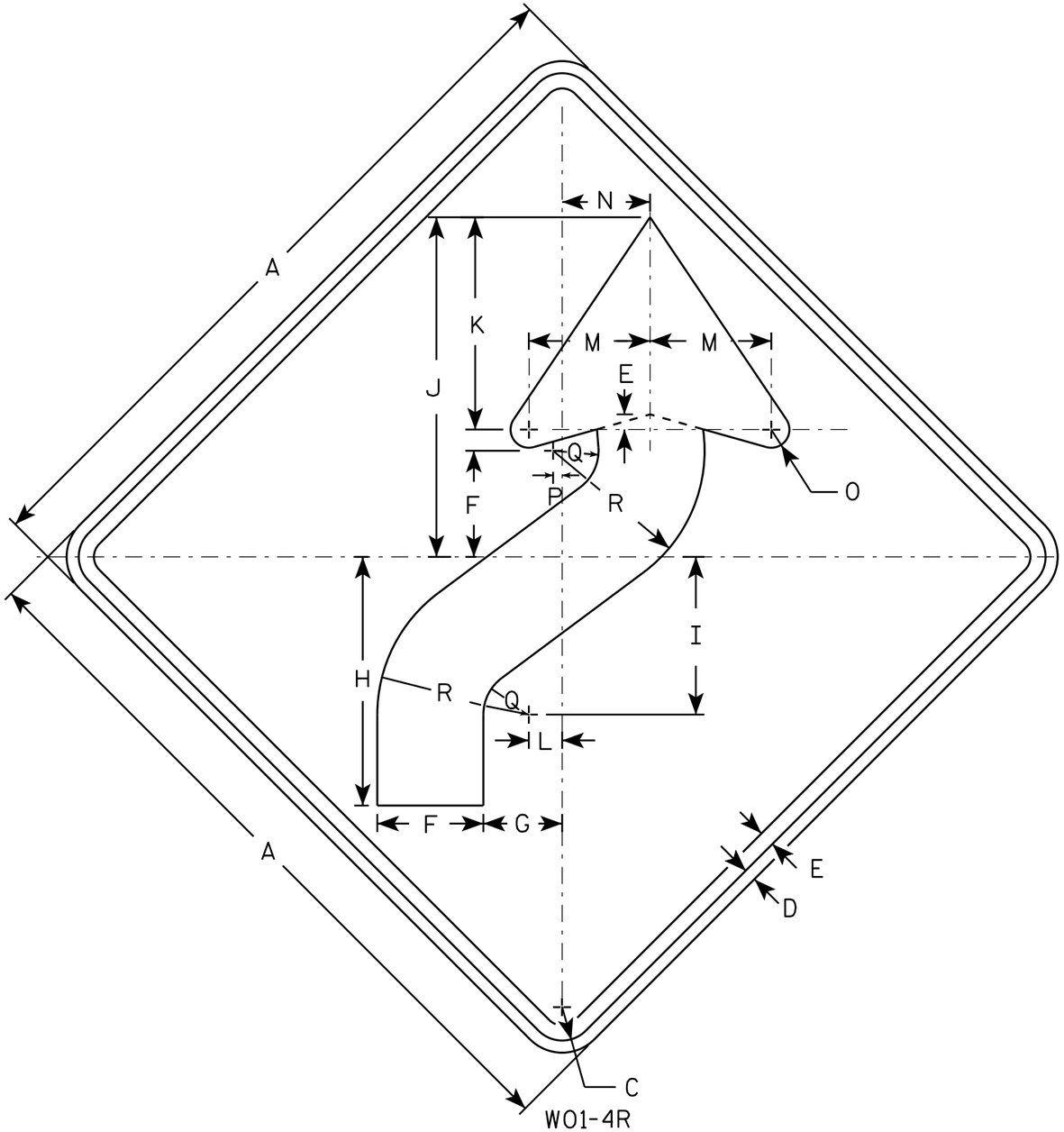
STANDARD SIGN
W23-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W23-2.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 514 | E



WO1-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
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. WO1-4L is the same as WO1-4R except the arrow is reversed along the vertical centerline.

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	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
WO1-4

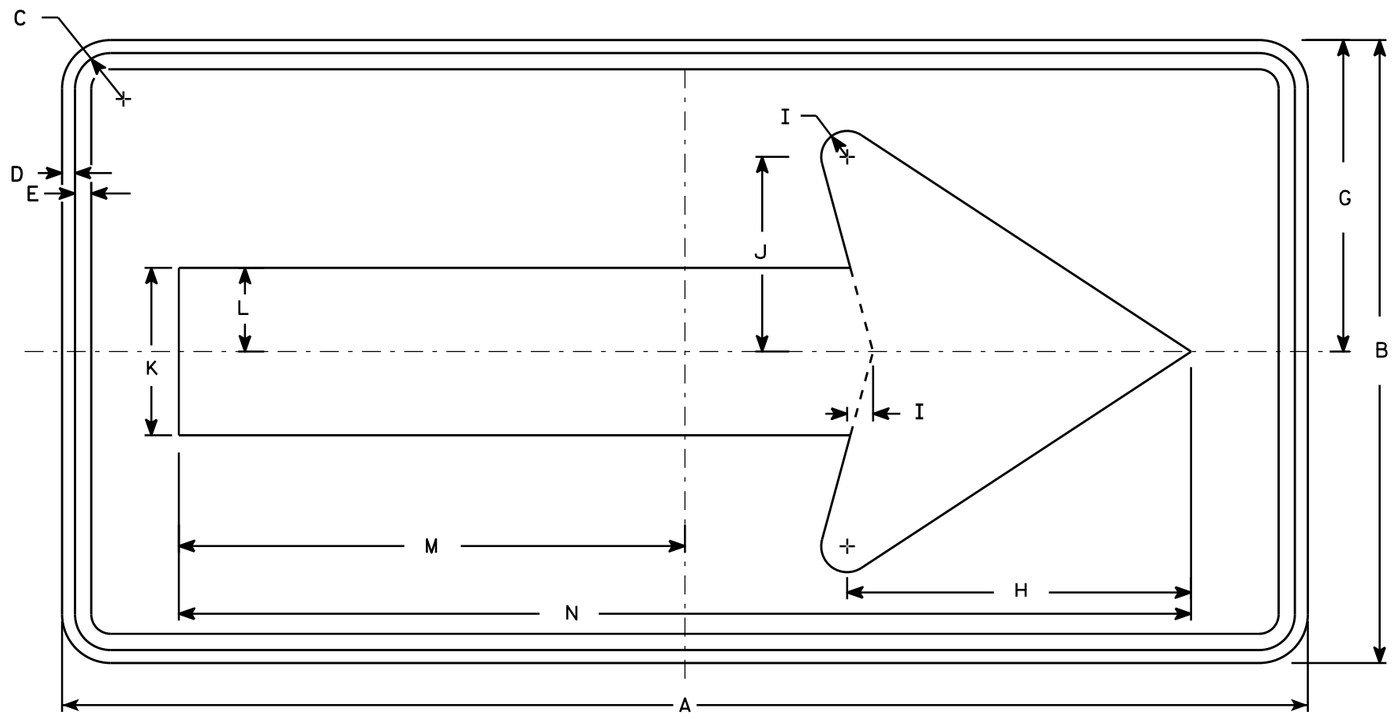
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO WO1-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\WO14.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000
WISDOT/CADDS SHEET 42



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
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.

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	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

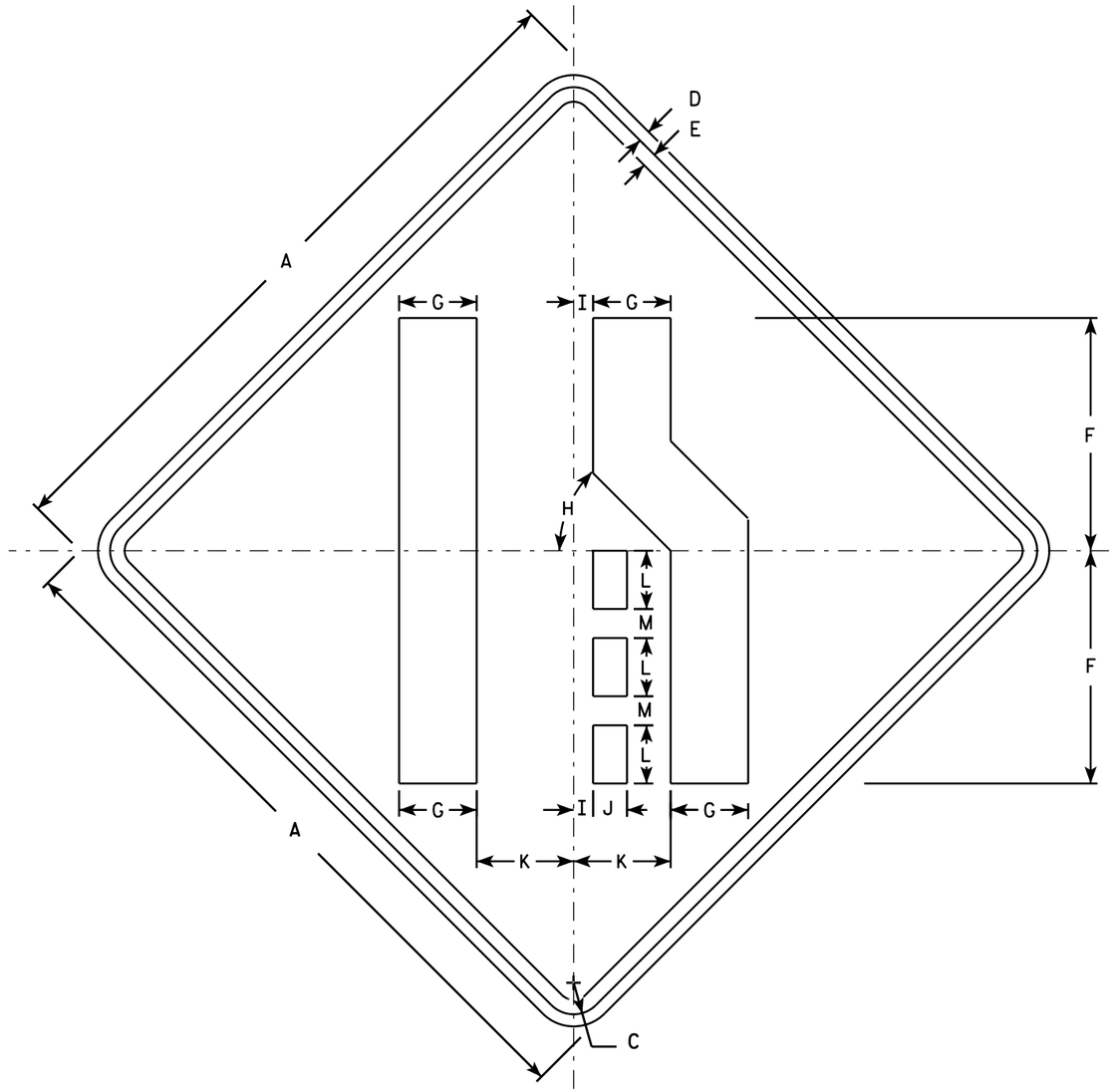
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
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. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

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	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 517 W04-2.1

PROJECT NO:

SHEET NO: E

STATE PROJECT NUMBER
2704-09-70

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION (1 OF 2)
2. GENERAL PLAN & ELEVATION (2 OF 2)
3. CROSS SECTION QUANTITIES & NOTES
4. UNREINFORCED CONCRETE FILL & RIPRAP LIMITS (1)
5. BOX CULVET DETAILS (1 OF 3)
6. BOX CULVET DETAILS (2 OF 3)
7. BOX CULVET DETAILS (3 OF 3)
8. OUTLET APRON & WING DETAILS (1 OF 2)
9. OUTLET APRON & WING DETAILS (2 OF 2)
10. INLET APRON & WING DETAILS (1 OF 3)
11. INLET APRON & WING DETAILS (2 OF 3)
12. INLET APRON & WING DETAILS (3 OF 3)
13. SUBSURFACE EXPLORATION

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.03
OPERATING RATING FACTOR: RF = 1.33
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

EARTH LOAD:

DESIGNED FOR FILL HEIGHT RANGE OF 2.5 TO 4.0 FEET.

MATERIAL PROPERTIES:

CONCRETE MASONRY _____ f'c = 3.5 KSI
BAR STEEL REINFORCEMENT _____ fy = 60 KSI

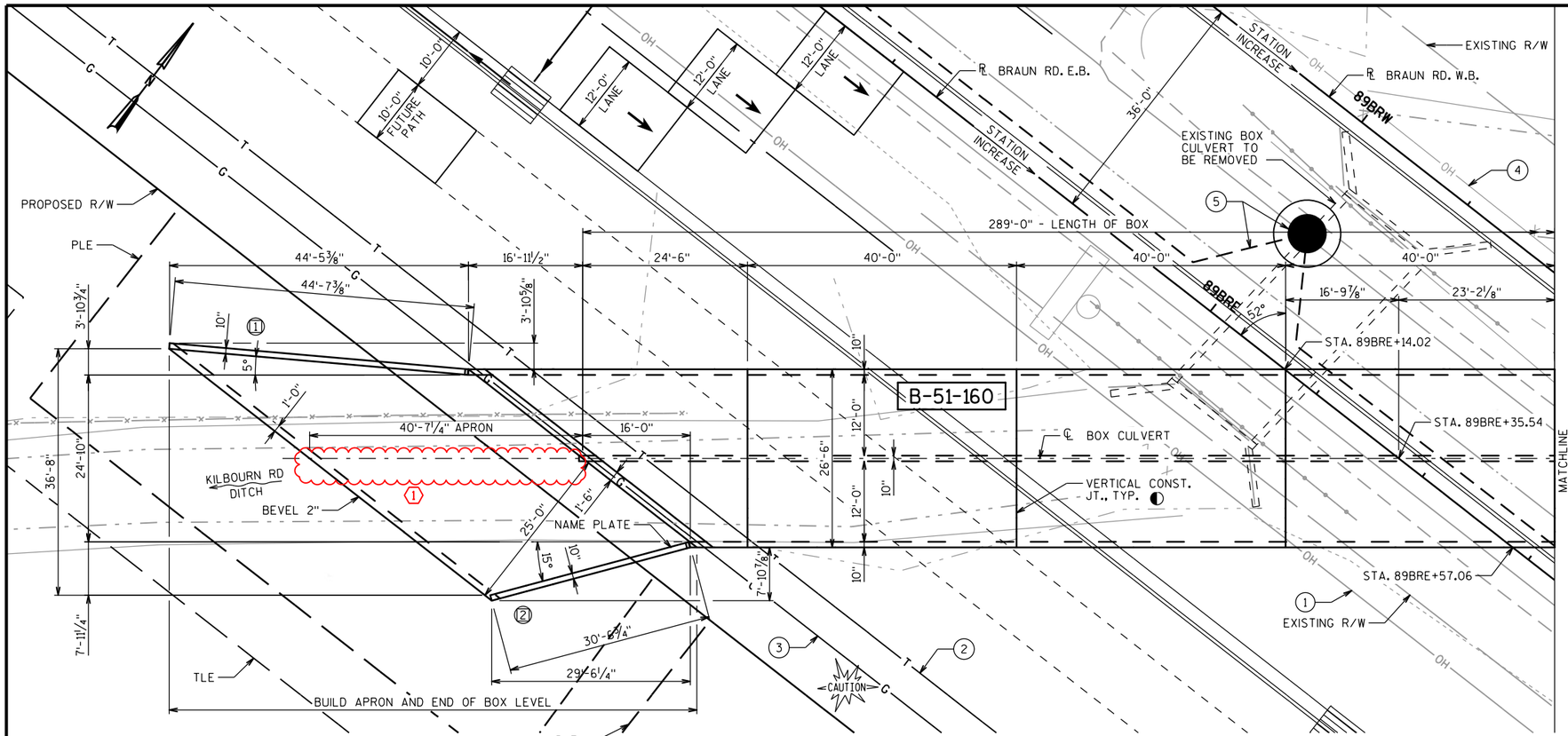
HYDRAULIC DATA

100 YEAR FREQUENCY

Q_{100} = 1,090 C.F.S. (DES.); 639 C.F.S. (F.I.S.)
VEL. = 7.36 F.P.S.
HW_{100} = EL. 733.80 (DES.); EL. 732.25 (F.I.S.)
WATERWAY AREA = 155 SQ.FT.
DRAINAGE AREA = 2.1 SQ.MI.
ROADWAY OVERTOPPING = N.A.
SCOUR CODE = 8

2 YEAR FREQUENCY

Q_2 = 181 C.F.S.
VEL. = 2.2 F.P.S.
HW_2 = EL. 730.07



PLAN

TWO CELL CONCRETE BOX CULVERT

UTILITY NOTES

1. EXISTING WE ENERGIES OVERHEAD ELECTRIC LINES TO BE RELOCATED
2. PROPOSED AT&T WISCONSIN UNDERGROUND FIBER OPTIC LINE
3. PROPOSED WE ENERGIES UNDERGROUND HIGH-PRESSURE GAS LINE
4. EXISTING AT&T WISCONSIN OVERHEAD COMMUNICATION LINE TO REMAIN AND PROPOSED WE ENERGIES OVERHEAD ELECTRIC LINE
5. PROPOSED VILLAGE OF MOUNT PLEASANT LIGHTING

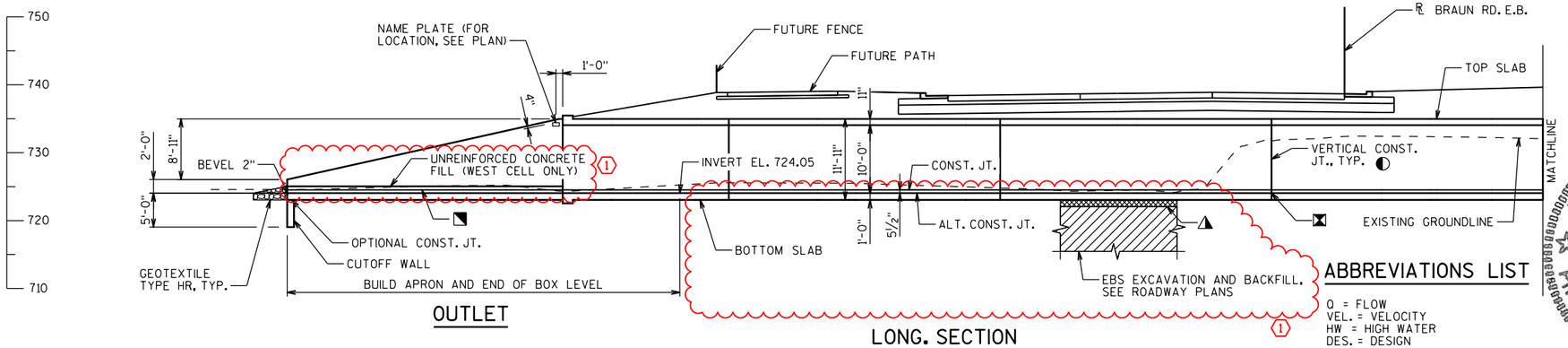
TRAFFIC DATA

BRAUN ROAD

EXISTING ADT = 625 (2018)
FUTURE ADT = 3,216 (2038)
RDS = 40 MPH

LEGEND

- PLACE 18" (MIN.) WIDE RUBBERIZED MEMBRANE WATERPROOFING ON TOP SLAB AND EXTEND DOWN WALLS TO 6" BELOW THE TOP OF THE BOTTOM SLAB AT VERTICAL CONSTRUCTION JOINTS.
- PLACE 18" (MIN.) WIDE RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZONTAL CONSTRUCTION JOINT IN THE WING.
- UNDERCUT 1'-0", EXCAVATION FOR UNDERCUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES, PLACE GEOTEXTILE TYPE 'C' AND BACKFILL WITH 'BREAKER RUN'. EXTEND 3'-0" BEYOND FOOTPRINT OF CULVERT AND WINGWALL APRONS ON EACH SIDE AND BETWEEN CUT OFF WALLS.
- IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY PROVIDE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING.
- WINGWALL NUMBER



OUTLET

LONG. SECTION

(LOOKING NORTHWEST - NORMAL TO BOX)

ABBREVIATIONS LIST

Q = FLOW
VEL. = VELOCITY
HW = HIGH WATER
DES. = DESIGN
F.I.S. = FLOOD INSURANCE STUDY

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
WILLIAM DREHER (608) 266-8489
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY
1	5/25/18	EBS NOTE & WEST CELL FILL	JJO

ORIGINAL PLANS PREPARED BY

HNTB
11414 W. PARK PLACE
MILWAUKEE, WI 53224
(414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-51-160

BRAUN RD. OVER KILBOURN RD. DITCH

COUNTY: RACINE
~~TOWN/CITY~~/VILLAGE: MOUNT PLEASANT
DESIGN SPEC.: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JJO	JWC	JJO	JWC

WISCONSIN JAMES W. CARTER III E-35165 05-23-2018 MILWAUKEE, WIS. PROFESSIONAL ENGINEER

GENERAL PLAN & ELEVATION (1 OF 2)

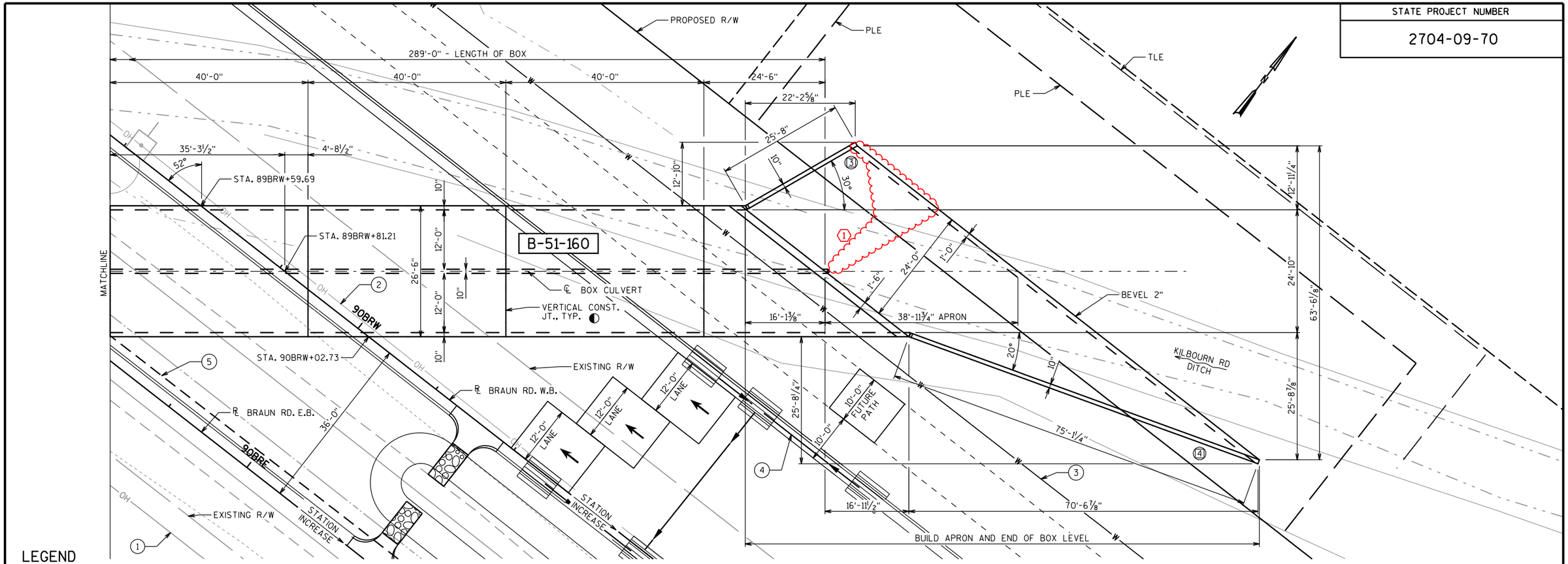
SHEET 1 OF 13

8

8

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.6_All-Plan Sheets\B-51-160_GP.dgn PLOT DATE : 5/31/2018 8:58:12 AM PLOT BY : jodenwald PLOT NAME : $FILE$ PLOT SCALE : 20:1

STATE PROJECT NUMBER
2704-09-70



PLAN

TWO CELL CONCRETE BOX CULVERT

LEGEND

◐ PLACE 18" (MIN.) WIDE RUBBERIZED MEMBRANE WATERPROOFING ON TOP SLAB AND EXTEND DOWN WALLS TO 6" BELOW THE TOP OF THE BOTTOM SLAB AT VERTICAL CONSTRUCTION JOINTS.

◥ PLACE 18" (MIN.) WIDE RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZONTAL CONSTRUCTION JOINT IN THE WING.

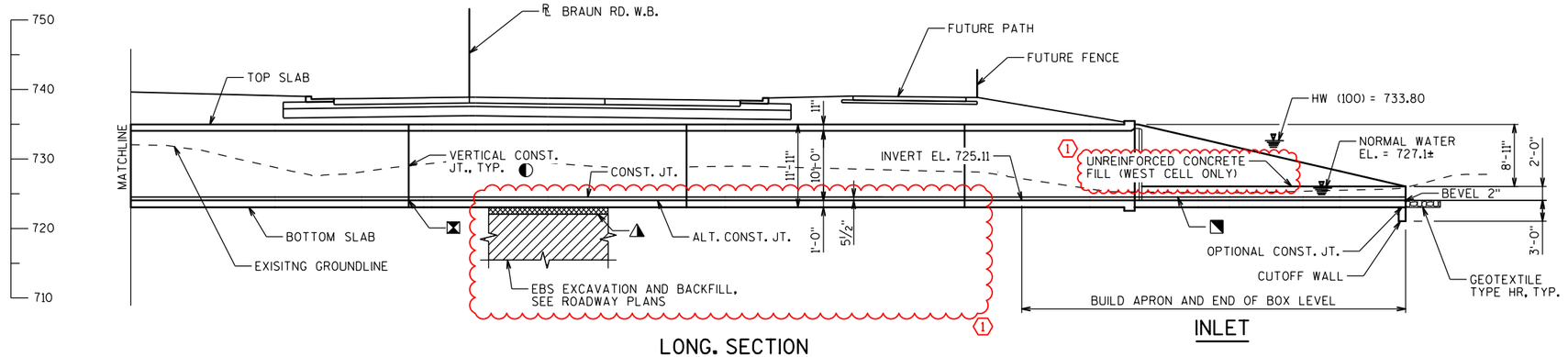
◭ UNDERCUT 1'-0", EXCAVATION FOR UNDERCUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES, PLACE GEOTEXTILE TYPE 'C' AND BACKFILL WITH 'BREAKER RUN'. EXTEND 3'-0" BEYOND FOOTPRINT OF CULVERT AND WINGWALL APRONS ON EACH SIDE AND BETWEEN CUT OFF WALLS.

⧓ IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY PROVIDE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING.

◯ WINGWALL NUMBER

UTILITY NOTES

1. EXISTING WE ENERGIES OVERHEAD ELECTRIC LINES TO BE RELOCATED
2. EXISTING AT&T WISCONSIN OVERHEAD COMMUNICATION LINE TO REMAIN AND PROPOSED WE ENERGIES OVERHEAD ELECTRIC LINE
3. PROPOSED RACINE WATER WORK COMMISSION UNDERGROUND WATER LINE
4. PROPOSED WISDOT UNDERGROUND STORM SEWER
5. PROPOSED VILLAGE OF MOUNT PLEASANT LIGHTING



LONG. SECTION

(LOOKING NORTHWEST - NORMAL TO BOX)

INLET

NO.	DATE	REVISION	BY
1	5/25/18	EBS NOTE & WEST CELL FILL	JJO

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-51-160

DRAWN BY JJO | PLANS CK'D. JWC

GENERAL PLAN & ELEVATION (2 OF 2)

SHEET 2 OF 13

WISCONSIN — JAMES W. CARTER III — E-35165 — 05-23-2018 — MILWAUKEE WIS. — PROFESSIONAL ENGINEER

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.6_All-Bridges\B-51-160\Design\B51160GP02.dgn PLOT BY : jodenwald PLOT NAME : $FILE$ PLOT SCALE : 20:1 PLOT DATE : 5/31/2018 8:03:23 AM

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	TOTAL
203.0600.S.001	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 89BRE+10	LS	1
206.2000.001	EXCAVATION FOR STRUCTURES CULVERTS B-51-160	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	8,243
311.0110	BREAKER RUN	TON	844
504.0100	CONCRETE MASONRY CULVERTS	CY	1,174 *
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	104,690
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	8,630
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	94
606.0200	RIPRAP MEDIUM	CY	220
606.0600	GROUTED RIPRAP MEDIUM	CY	17
645.0105	GEOTEXTILE TYPE C	SY	1,447
645.0120	GEOTEXTILE TYPE HR	SY	471
SPV.0105.001	TEMPORARY WATER DIVERSION CULVERT B-51-160	LS	1
	NON BID ITEMS		
	PREFORMED FILLER	SIZE	3/4"
	NAME PLATE	EACH	1

ALL ITEMS ARE CATEGORY 1200

* 190 CY OF TOTAL IS FOR UNREINFORCED CONCRETE FILL IN WEST CELL AND AT APRONS. SEE "UNREINFORCED CONCRETE FILL AND RIPRAP LIMITS" SHEET FOR DETAILS.

1

GENERAL NOTES

DESIGN IS IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 7TH EDITION, 2014 WITH ALL INTERIM REVISIONS THROUGH 2016, UNLESS OTHERWISE NOTED.

THE EXISTING STRUCTURE IS APPROXIMATELY 14' WIDE BY 8' HIGH OPENING BY 38' LONG SINGLE CELL CONCRETE BOX CULVERT, WITH WINGWALLS ALL FOUR CORNERS. ALL INFORMATION ON THIS EXISTING STRUCTURE WAS TAKEN FROM OBSERVATION; NO INFORMATION IS AVAILABLE ON WISDOT'S HSI WEBSITE.

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 SIGNIFY THE BAR SIZE. ALL BAR STEEL REINFORCEMENT ARE ENGLISH DESIGNATION.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE REFERENCE SYSTEM (WisCRS), RACINE COUNTY, NAD83 (1997). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD88 (1991).

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE. THE UTILITIES LABELED AS PROPOSED MAY BE INSTALLED BY OTHERS PRIOR TO THIS CONTRACT.

NAME PLATE SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "CONCRETE MASONRY CULVERTS". REFER TO S.D.D. "NAME PLATE (STRUCTURES)" FOR NAME PLATE DETAILS.

REMOVE OLD STRUCTURE AND CONSTRUCT B-51-160 WHILE BRAUN ROAD IS CLOSED.

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ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE OR BREAKER RUN SHALL BE BACKFILLED WITH "BACKFILL STRUCTURE TYPE B" TO THE ELEVATION SHOWN IN THE SECTION THRU BOX CULVERT. FILL ABOVE THE BACKFILL IS INCLUDED IN THE EARTHWORK QUANTITIES IN THE ROAD PLANS.

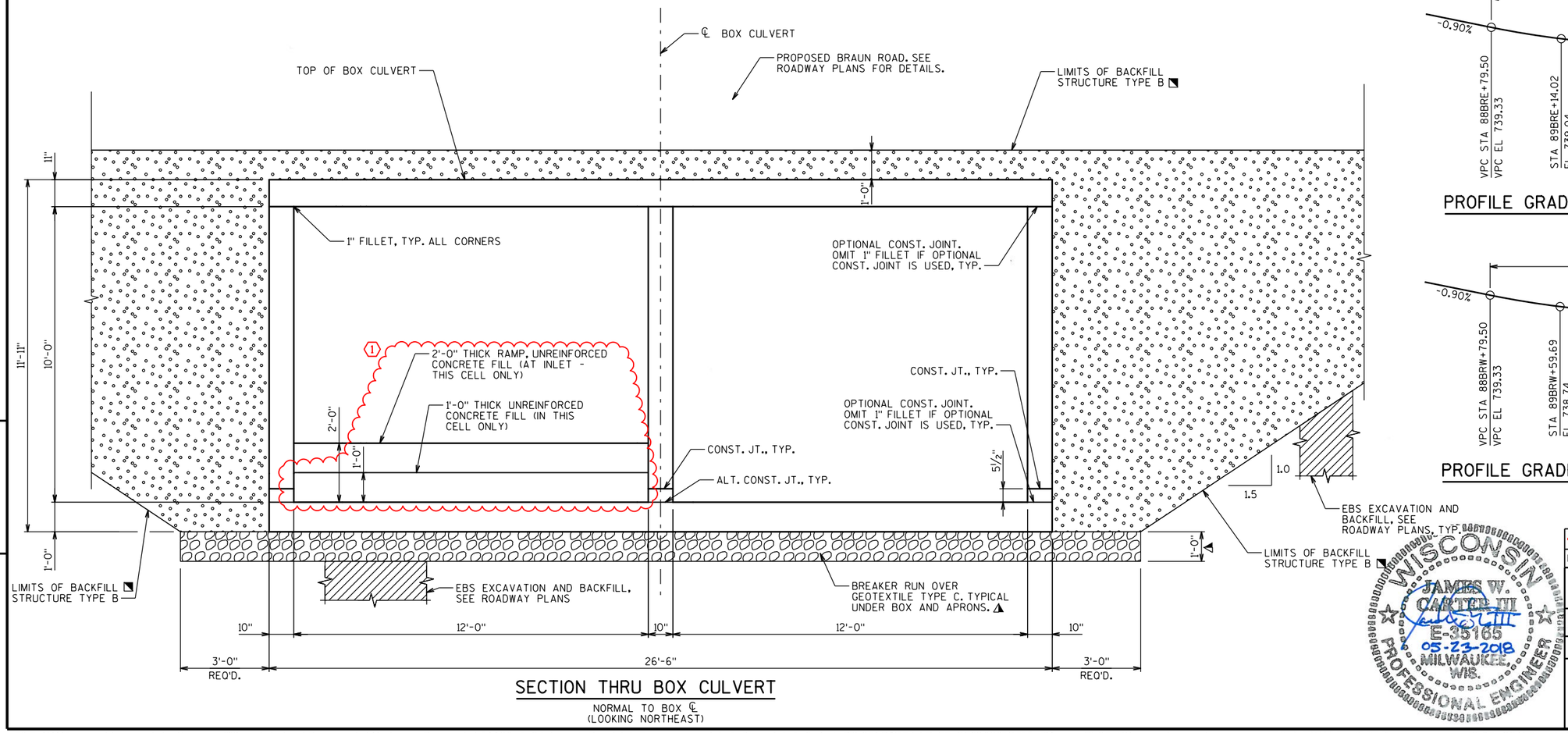
◥ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS (B-51-160)" SHALL BE THE EXISTING GROUND LINE OR EXISTING STREAM BED.

▲ UNDERCUT 1'-0". EXCAVATION FOR UNDERCUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

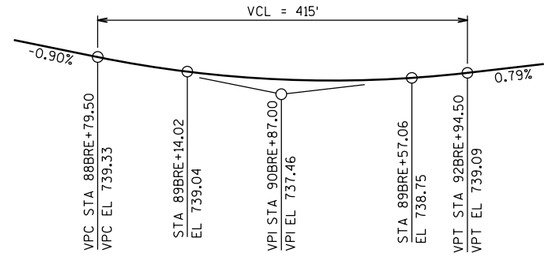
THE CONCRETE IN THE CUT OFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED. THE ALTERNATE CUT OFF WALL MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT OFF WALLS. PAYMENT SHALL BE BASED ON CONCRETE CUT OFF WALL QUANTITIES AND BID PRICES.

THE CONTACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS IN CHAPTER 36 OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL AND ITS CORRESPONDING STANDARDS. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".



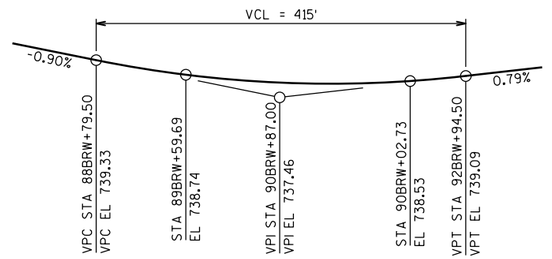
SECTION THRU BOX CULVERT

NORMAL TO BOX ℄ (LOOKING NORTHEAST)



PROFILE GRADE LINE - BRAUN RD. E.B.

(BRE ALIGNMENT)



PROFILE GRADE LINE - BRAUN RD. W.B.

(BRW ALIGNMENT)

NO.	DATE	REVISION	BY
1	5/25/18	WEST CELL FILL	JJO

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-51-160

DRAWN BY: JJO | PLANS CK'D.: JWC

CROSS SECTION, QUANTITIES & NOTES

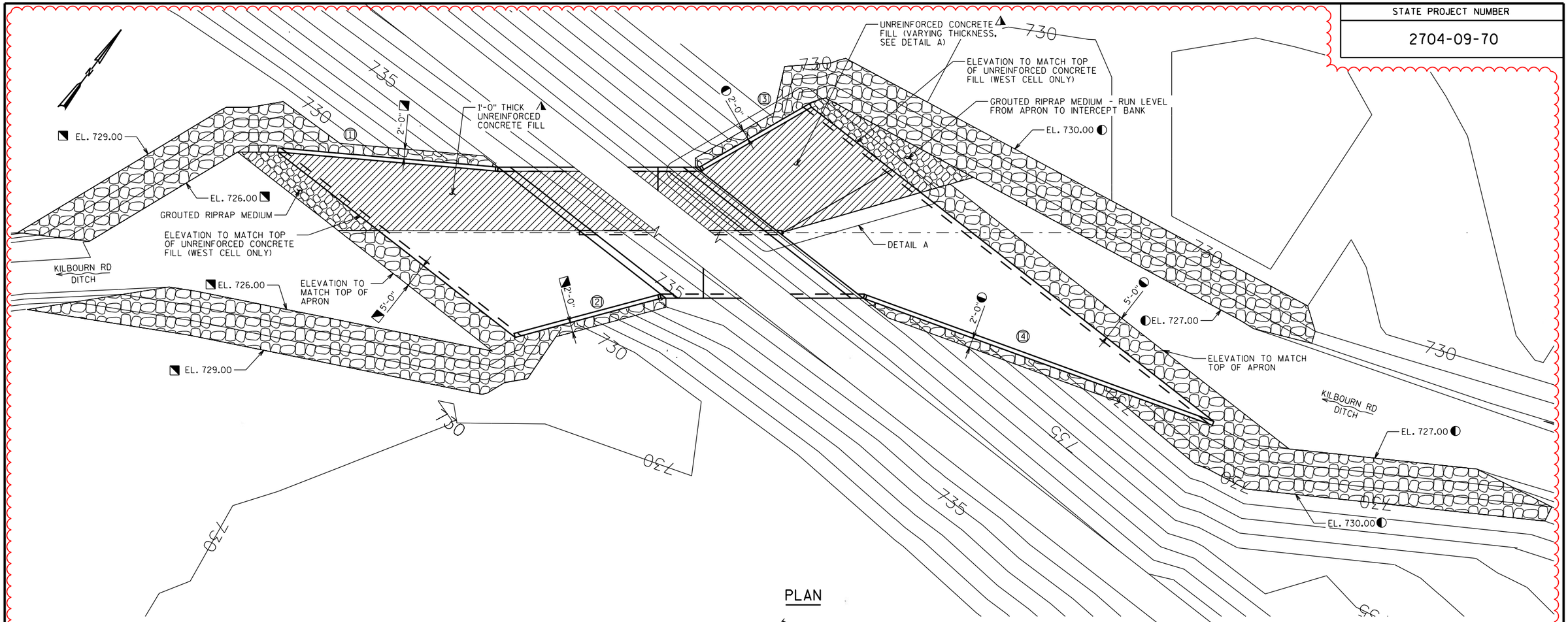
SHEET 3 OF 13

WISCONSIN JAMES W. CARTER III E-35165 05-23-2018 MILWAUKEE WIS. PROFESSIONAL ENGINEER

8

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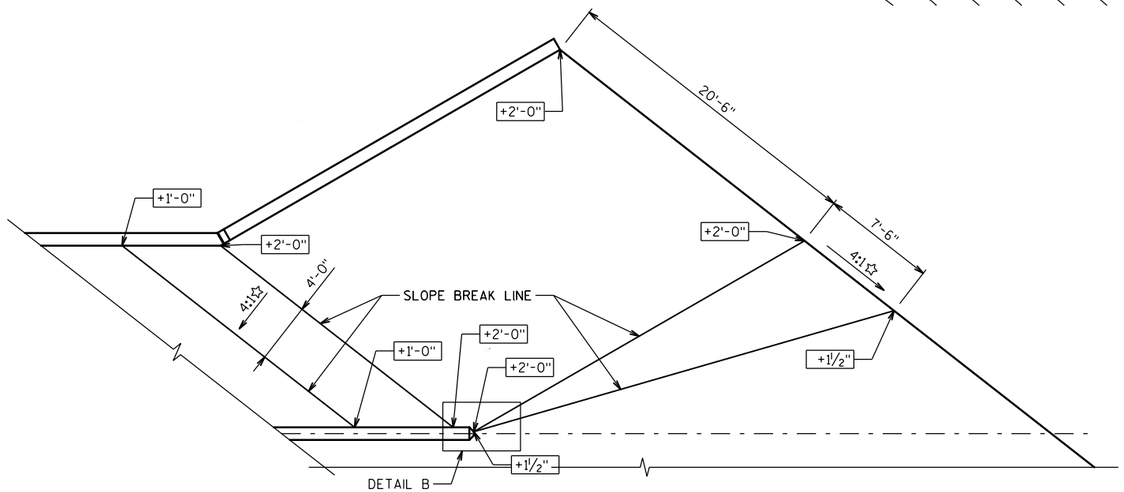
STATE PROJECT NUMBER
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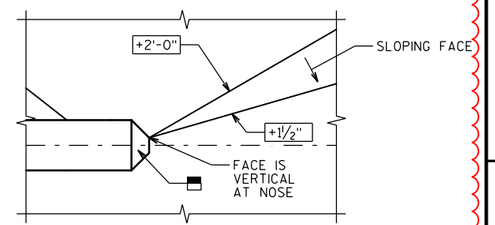
LEGEND

- PLACE RIPRAP MEDIUM 2' WIDE ALONG THE LENGTH OF THE WINGWALLS, AND RIPRAP MEDIUM AND GROUTED RIPRAP MEDIUM 5' WIDE ALONG THE APRON FACE. ALSO, PLACE RIPRAP ON ANY DISTURBED AREA BETWEEN EL. 727.00 AND EL. 730.00. RIPRAP SHALL BE 18" THICK MINIMUM. PLACE RIPRAP OVER GEOTEXTILE TYPE HR.
- PLACE RIPRAP MEDIUM 2' WIDE ALONG THE LENGTH OF THE WINGWALLS, AND RIPRAP MEDIUM AND GROUTED RIPRAP MEDIUM 5' WIDE ALONG THE APRON FACE. ALSO PLACE RIPRAP ON ANY DISTURBED AREA BETWEEN EL. 726.00 AND EL. 729.00. RIPRAP SHALL BE 18" THICK MINIMUM. PLACE RIPRAP OVER GEOTEXTILE TYPE HR.
- PLACE UNREINFORCED CONCRETE FILL 1' THICK IN WESTERN CELL. SEE NOTE ON PLAN VIEW FOR UNREINFORCED CONCRETE FILL PLACEMENT AT UPSTREAM APRON.
- (1) WINGWALL NUMBER
- SAW-IN CONSTRUCTION JOINTS (⅓ FILL DEPTH) IN UNREINFORCED CONCRETE FILL. PLACE A JOINT AT EACH OF THE BOX CULVERT JOINTS AND AT NO MORE THAN 10-FOOT SPACES BETWEEN CULVERT JOINTS AND IN THE APRONS. SEAL JOINTS WITH AN APPROVED JOINT SEALER.
- INLET NOSE, SEE "BOX CULVERT DETAILS (2 OF 3)" SHEET FOR ADDTIONAL DETAILS.
- ☆ SLOPE DOWN TO SLOPE BREAK LINE.
- +'-'-" INDICATES THICKNESS OF UNREINFORCED CONCRETE FILL OVER THE BOX CULVERT OR APRON FLOOR ALONG LINE, OR AT POINT, INDICATED.

PLAN



DETAIL A: INLET DIMENSIONS



DETAIL B: FILL @ INLET NOSE

WISCONSIN
JAMES W. CARTER III
E-35165
05-23-2018
MILWAUKEE, WIS.
PROFESSIONAL ENGINEER

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1	5/25/18	WEST CELL FILL	JJO

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-51-160

DRAWN BY	PLANS CK'D.
JJO	JWC

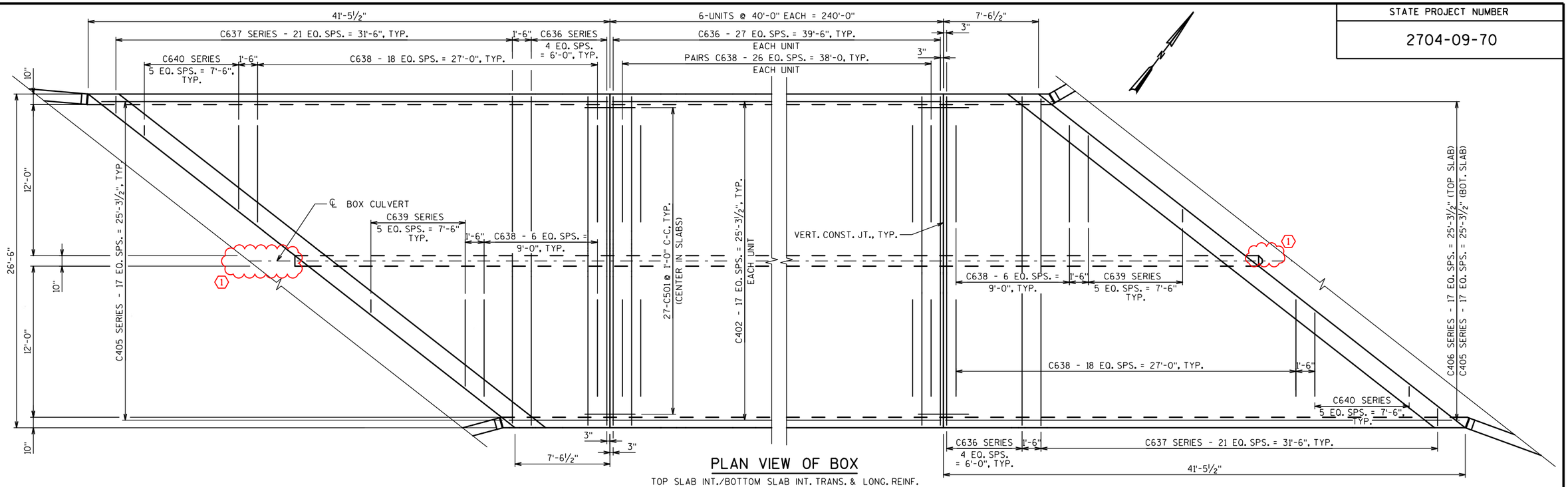
UNREINFORCED CONCRETE FILL & RIPRAP LIMITS

SHEET 4 OF 13

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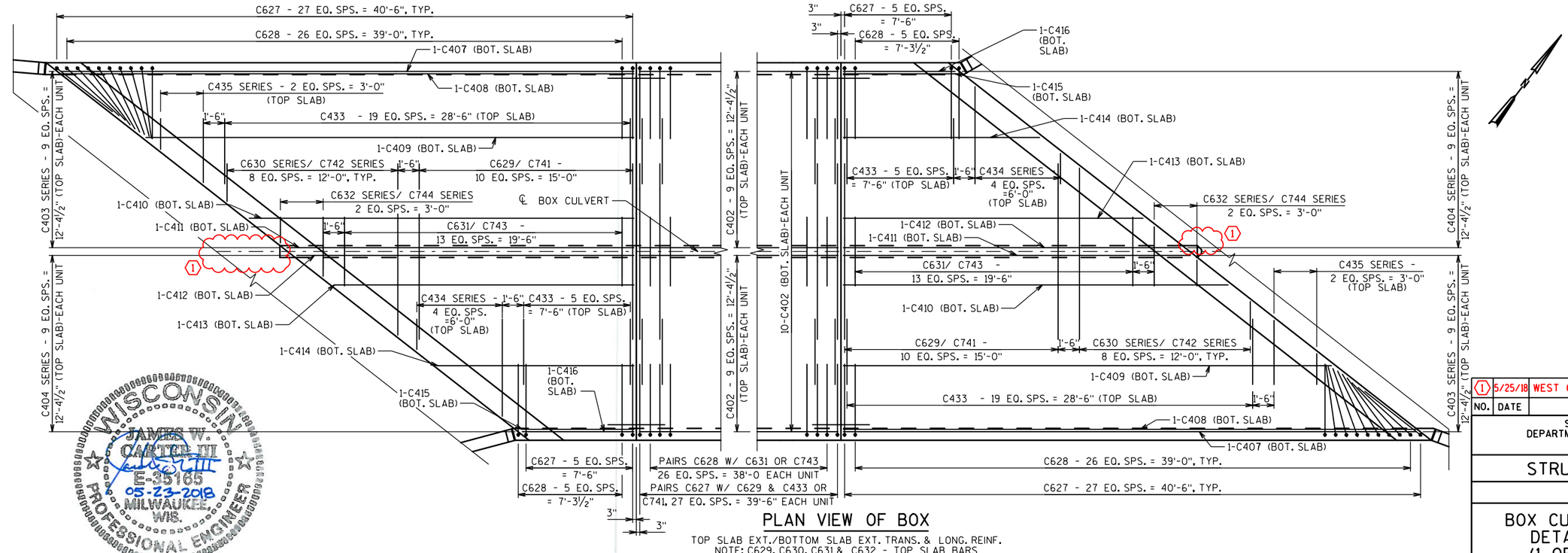
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PLAN VIEW OF BOX

TOP SLAB INT./BOTTOM SLAB INT. TRANS. & LONG. REINF.



PLAN VIEW OF BOX

TOP SLAB EXT./BOTTOM SLAB EXT. TRANS. & LONG. REINF.
NOTE: C629, C630, C631 & C632 - TOP SLAB BARS
C741, C742, C743, C744 - BOT. SLAB BARS

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-51-160

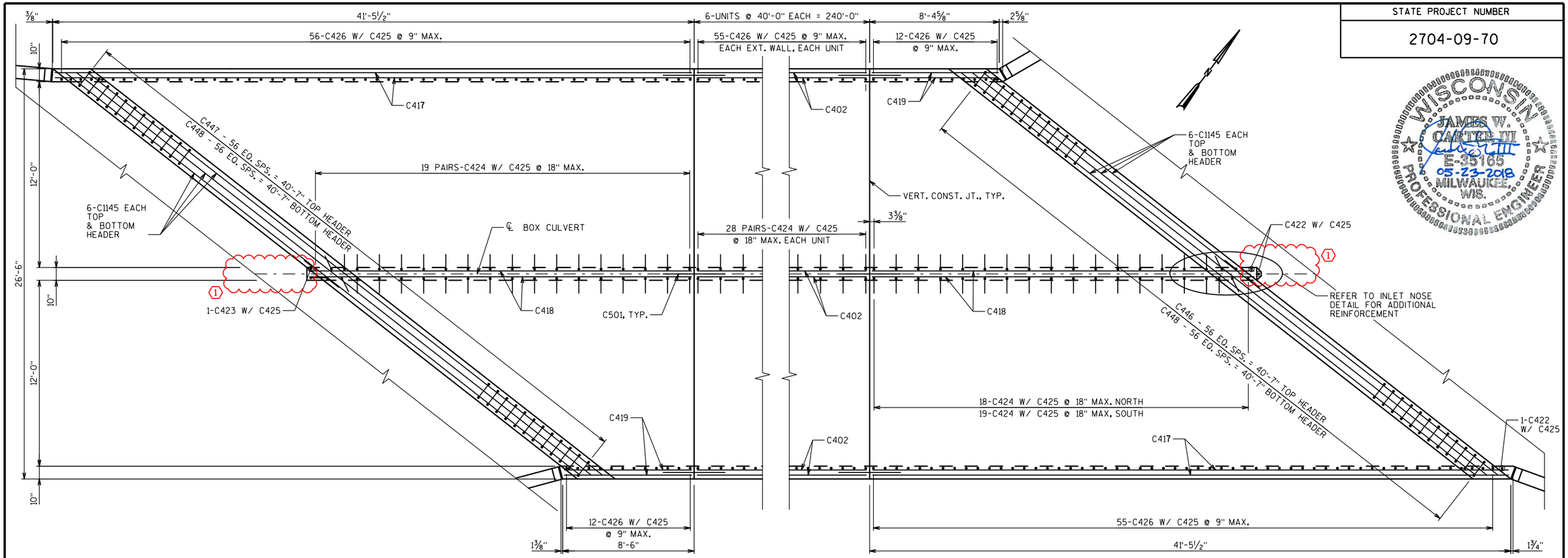
DRAWN BY: EAJ | PLANS CK'D.: MSS

BOX CULVERT DETAILS (1 OF 3)

SHEET 5 OF 13

JAMES W. CARTER III
E-35165
05-23-2018
MILWAUKEE, WIS.
PROFESSIONAL ENGINEER

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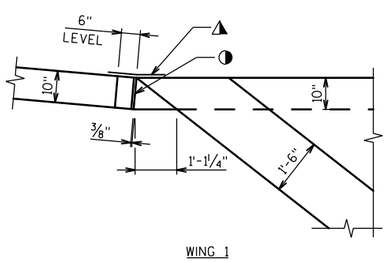
PLAN

WALL AND HEADER REINFORCEMENT SHOWN

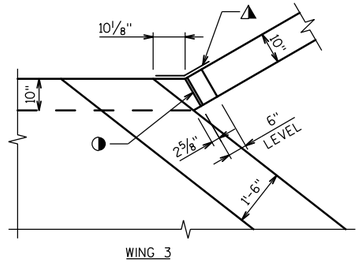
NOTES

△ RUBBERIZED MEMBRANE WATERPROOFING EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL. (FLUSH WITH FACE OF CONCRETE)

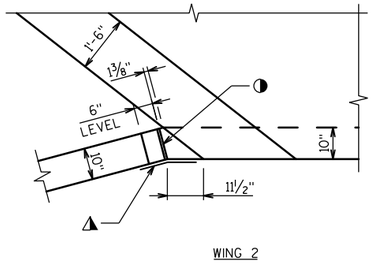
◑ 3/4" FILLER TO EXTEND FROM HORIZONTAL CONST. JOINT TO TOP OF WING



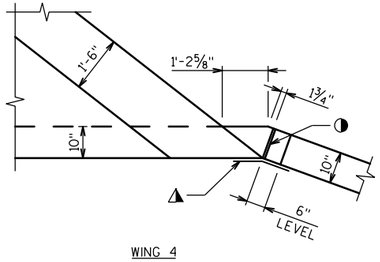
WING 1



WING 3

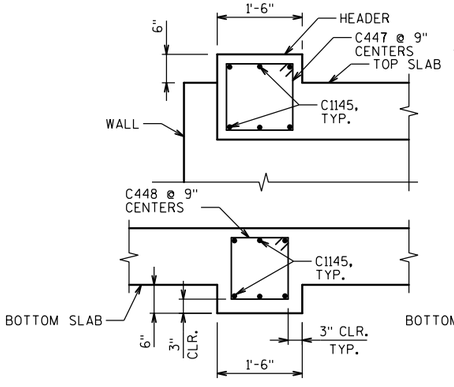


WING 2

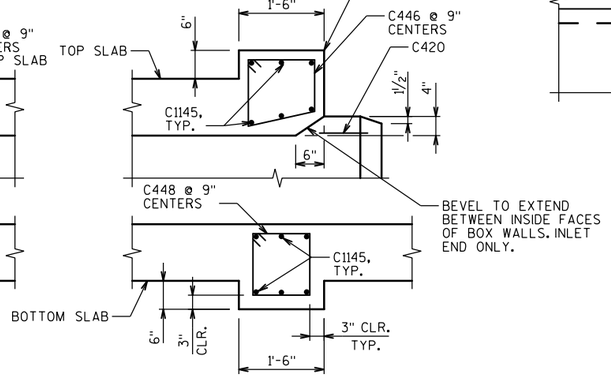


WING 4

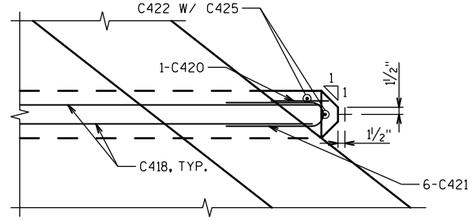
CORNER DETAILS



SECTION THRU OUTLET HEADER



SECTION THRU INLET HEADER



INLET NOSE DETAIL

NO.	DATE	REVISION	BY
1	5/25/18	WEST CELL FILL	JJO

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-51-160

DRAWN BY EAJ | PLANS CK'D. MSS

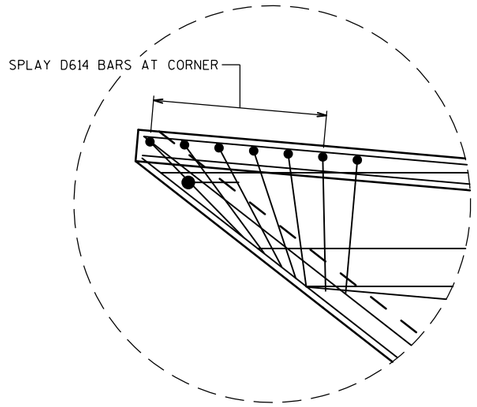
BOX CULVERT DETAILS (2 OF 3)

SHEET 6 OF 13

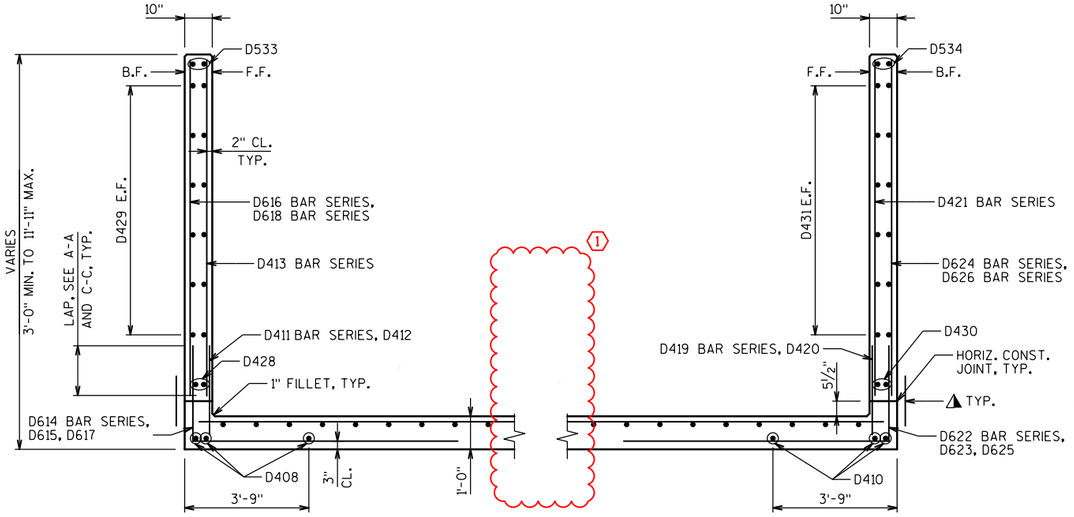
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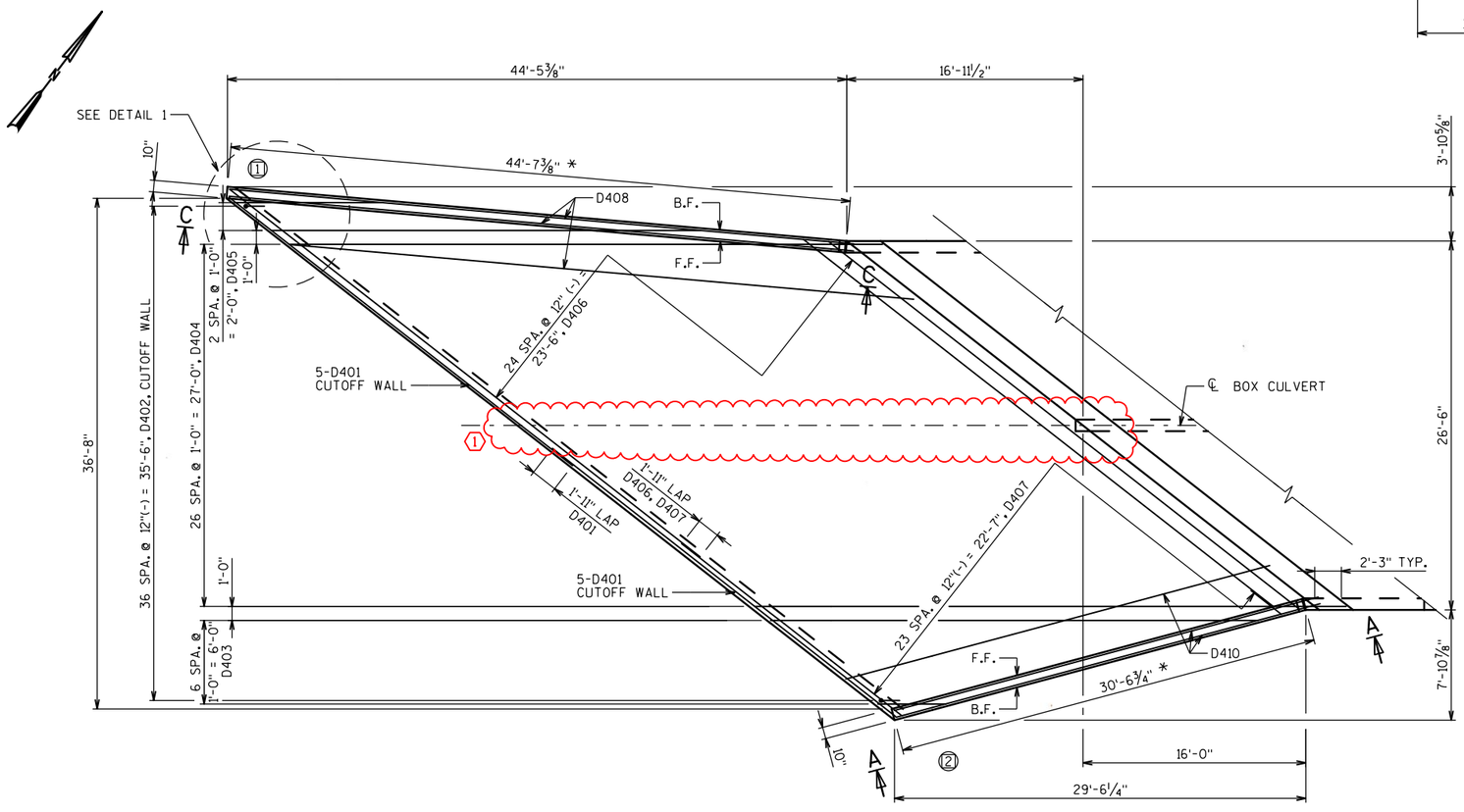


DETAIL 1
APRON CORNER DETAIL



WING 1 WING 2

SECTION THRU WINGS
NORMAL TO WING WALLS



OUTLET APRON PLAN
APRON AND CUTOFF WALL REINFORCEMENT SHOWN
SEE OTHER DETAILS FOR WING REINFORCEMENT

LEGEND

- ◭ RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONST. JOINT IN WING
- * WING LENGTH INCLUDES 3/4" FILLER
- (11) WINGWALL NUMBER



NO.	DATE	REVISION	BY
1	5/25/18	WEST CELL FILL	JJO

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-51-160

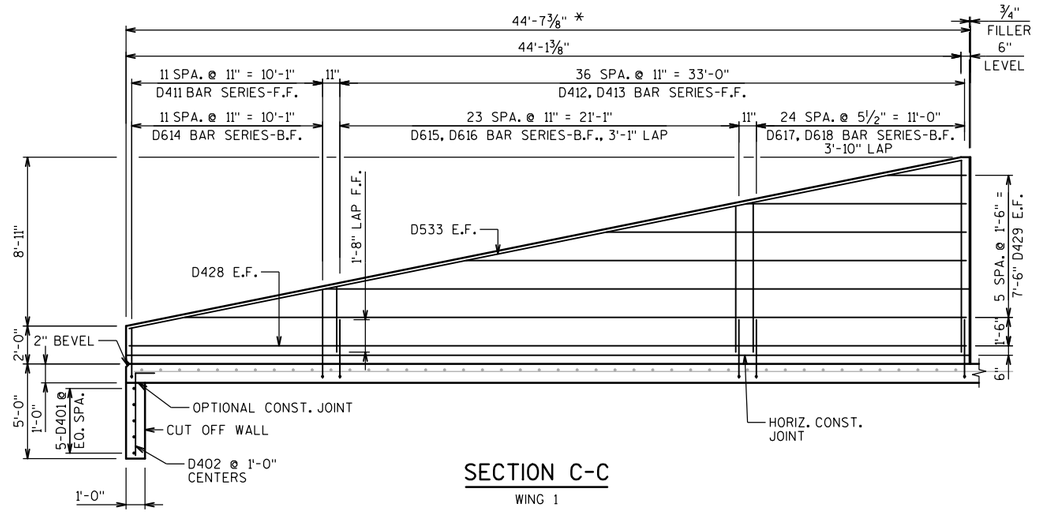
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OUTLET APRON & WING DETAILS (1 OF 2)

SHEET 8 OF 13

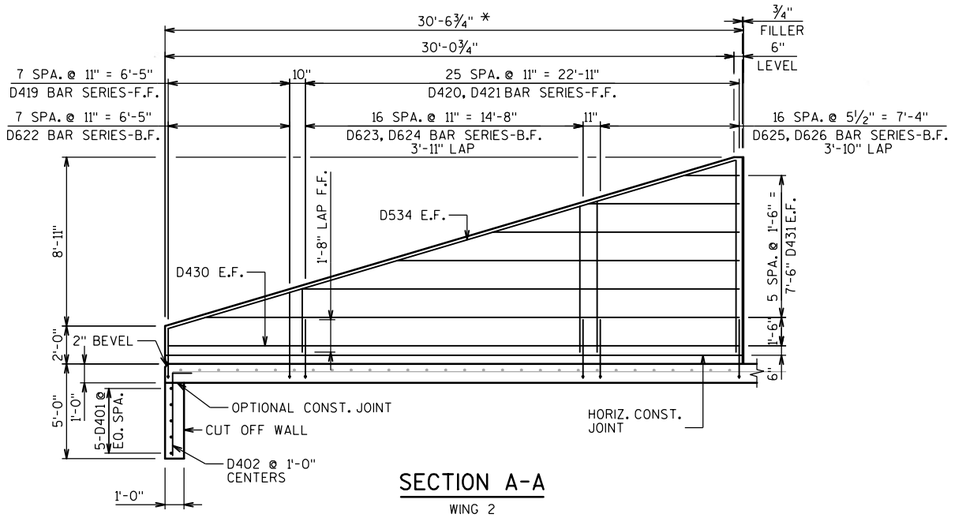
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8



SECTION C-C

WING 1



SECTION A-A

WING 2

BILL OF BARS

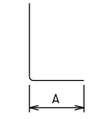
NOTE:
BAR DIMENSIONS ARE OUT TO OUT OF BAR.
THE FIRST OR FIRST TWO DIGITS
OF A BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR ⚠ SERIES	LOCATION
D401		10	31'-4"			CUTOFF WALL
D402		37	5'-5"	X		CUTOFF WALL
D403		7	19'-10"		X	APRON - LONG.
D404		27	42'-8"			APRON - LONG.
D405		3	20'-7"		X	APRON - LONG.
D406		25	42'-10"			APRON - TRANS.
D407		24	11'-8"		X	APRON - TRANS.
D408		3	45'-0"			APRON - LONG.
D409						NOT USED (1)
D410		3	31'-6"			APRON - LONG.
D411	X	12	3'-8"		X	WING 1 - VERT. - F.F.
D412	X	37	3'-1"			WING 1 - VERT. - F.F.
D413	X	37	6'-9"		X	WING 1 - VERT. - F.F.
D614	X	12	7'-1"	X	X	WING 1 - VERT. - B.F.
D615	X	24	11'-8"	X		WING 1 - VERT. - B.F.
D616	X	24	5'-6"		X	WING 1 - VERT. - B.F.
D617	X	25	13'-1"	X		WING 1 - VERT. - B.F.
D618	X	25	9'-0		X	WING 1 - VERT. - B.F.
D419	X	8	3'-7"		X	WING 2 - VERT. - F.F.
D420	X	26	3'-1"			WING 2 - VERT. - F.F.
D421	X	26	6'-9"		X	WING 2 - VERT. - F.F.
D622	X	8	7'-0"	X	X	WING 2 - VERT. - B.F.
D623	X	17	11'-8"	X		WING 2 - VERT. - B.F.
D624	X	17	5'-6"		X	WING 2 - VERT. - B.F.
D625	X	17	13'-1"	X		WING 2 - VERT. - B.F.
D626	X	17	9'-0"		X	WING 2 - VERT. - B.F.
D427						NOT USED (1)
D428	X	2	44'-2"			WING 1 - HORIZ.
D429	X	12	22'-8"		X	WING 1 - HORIZ.
D430	X	2	30'-2"			WING 2 - HORIZ.
D431	X	12	11'-5"		X	WING 2 - HORIZ.
D432						NOT USED (1)
D533	X	2	44'-10"			WING 1 - HORIZ. - TOP
D534	X	2	31'-2"			WING 2 - HORIZ. - TOP

⚠ LENGTH SHOWN FOR THE BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

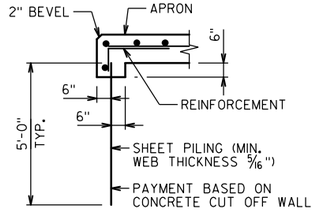
LEGEND

* WING LENGTH INCLUDES 3/4" FILLER



MARK	A
D402	1'-0"
D614	3'-8"
D615	7'-4"
D617	8'-0"
D622	3'-8"
D623	7'-4"
D625	8'-0"

(1)



ALTERNATE CUT-OFF WALL

BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
D403	1 SERIES OF 7	4'-10" TO 34'-10"
D405	1 SERIES OF 3	10'-6" TO 30'-8"
D407	1 SERIES OF 24	2'-10" TO 20'-5"
D411	1 SERIES OF 12	2'-7" TO 4'-8"
D413	1 SERIES OF 37	3'-5" TO 10'-2"
D614	1 SERIES OF 12	6'-1" TO 8'-2"
D616	1 SERIES OF 24	3'-5" TO 7'-8"
D618	1 SERIES OF 25	7'-10" TO 10'-1"
D419	1 SERIES OF 8	2'-7" TO 4'-6"
D421	1 SERIES OF 26	3'-4" TO 10'-1"
D622	1 SERIES OF 8	6'-1" TO 8'-0"
D624	1 SERIES OF 17	3'-4" TO 7'-8"
D626	1 SERIES OF 17	7'-11" TO 10'-1"
D429	2 SERIES OF 6	4'-2" TO 41'-3"
D431	2 SERIES OF 6	2'-10" TO 20'-1"



STATE PROJECT NUMBER
2704-09-70

NO.	DATE	REVISION	BY
(1)	5/25/18	WEST CELL FILL	JJO

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-51-160

DRAWN BY HDA | PLANS CK'D. MPM

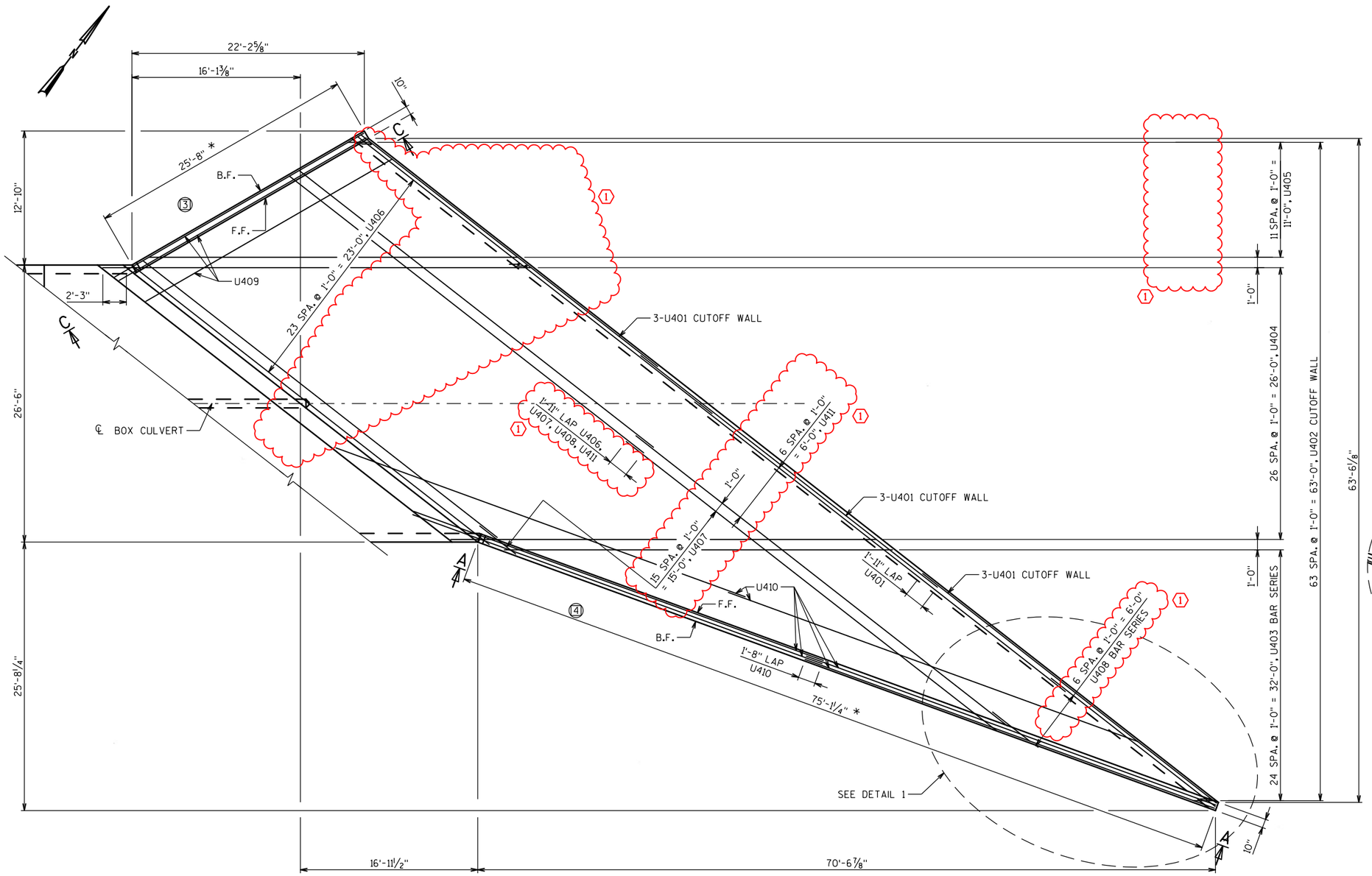
OUTLET APRON & WING DETAILS (2 OF 2)

SHEET 9 OF 13

8

8

STATE PROJECT NUMBER
2704-09-70



LEGEND

* WING LENGTH INCLUDES ¾" FILLER

(11) WINGWALL NUMBER

DETAIL 1

APRON CORNER DETAIL

INLET APRON PLAN

APRON AND CUTOFF WALL REINFORCEMENT SHOWN
SEE OTHER DETAILS FOR WING REINFORCEMENT

8

8

NO.	DATE	REVISION	BY
1	5/25/18	WEST CELL FILL	JJO

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-51-160

DRAWN BY HDA | PLANS CK'D. MPM

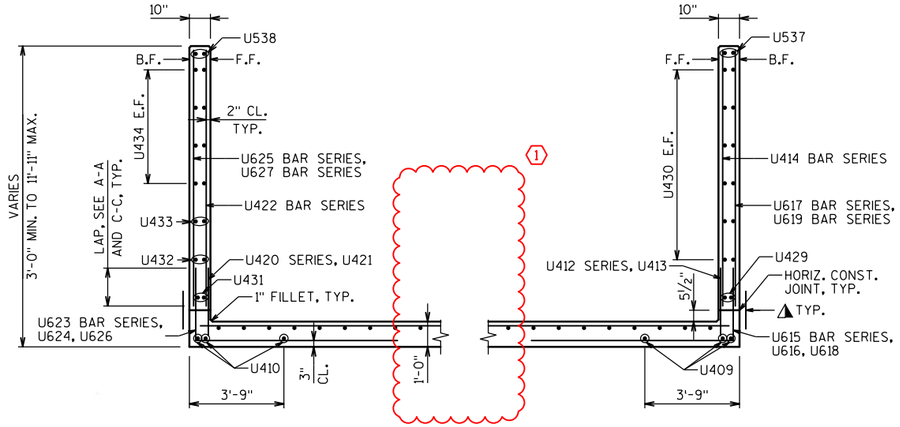
INLET APRON & WING DETAILS (1 OF 3)

SHEET 10 OF 13

WISCONSIN JAMES W. CARTER III E-35165 05-23-2018 MILWAUKEE, WIS. PROFESSIONAL ENGINEER

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.6_All-Plan Sheets\B-51-160 Inlet Apron Wing Details.dgn PLOT BY : jodenwald PLOT NAME : $FILE$ PLOT SCALE : 8:1

STATE PROJECT NUMBER
2704-09-70



WING 4 WING 3

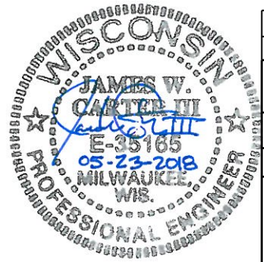
SECTION THRU WINGS

(NORMAL TO WING WALLS)

LEGEND

▲ RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONST. JOINT IN WING





NO.	DATE	REVISION	BY
1	5/25/18	WEST CELL FILL	JJO

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-51-160

DRAWN BY HDA | PLANS CK'D. MPM

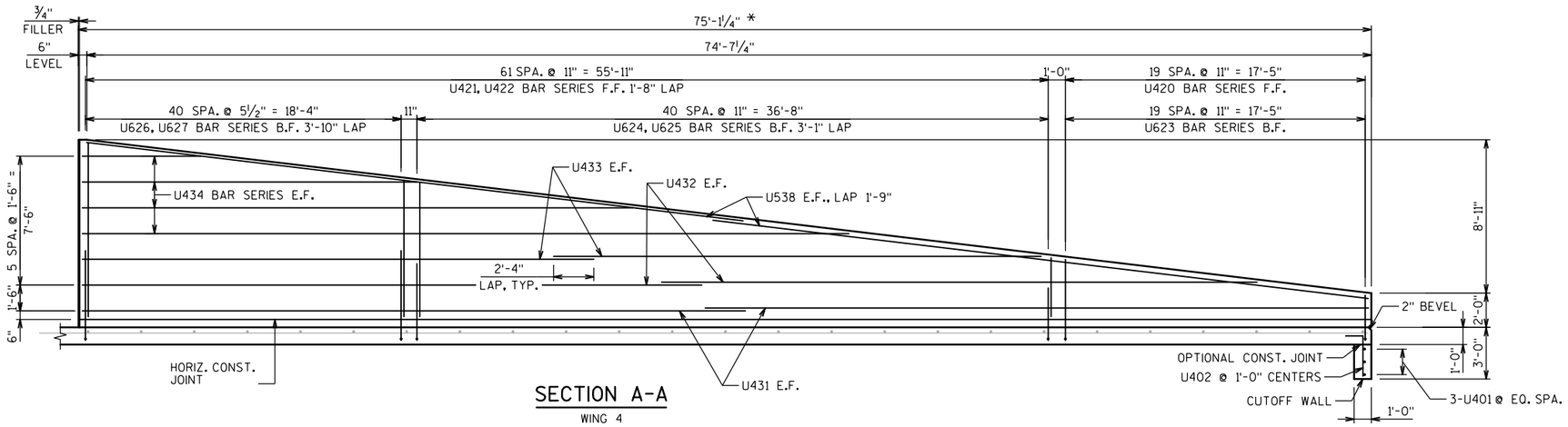
INLET APRON & WING DETAILS (2 OF 3)

SHEET 11 OF 13

8

8

STATE PROJECT NUMBER
2704-09-70



SECTION A-A
WING 4

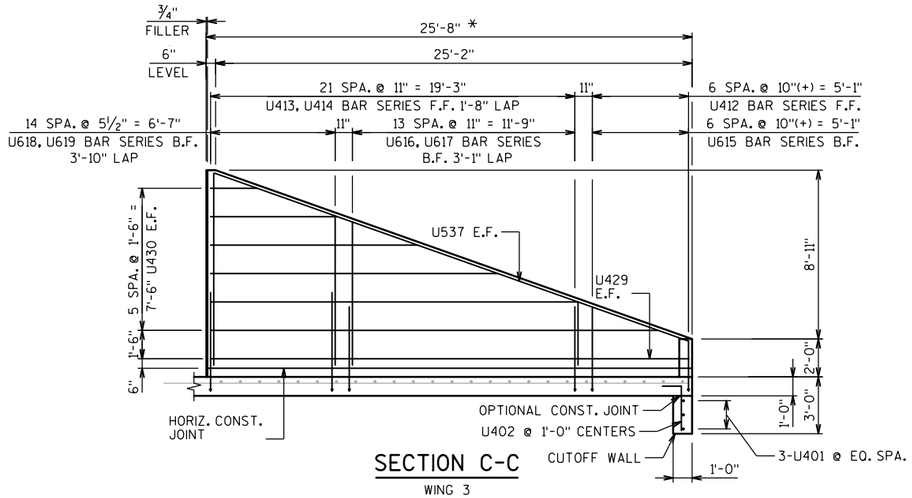
LEGEND

* WING LENGTH INCLUDES 3/4" FILLER

NOTES

FOR ALTERNATE CUTOFF WALL DETAIL, SEE SHEET "OUTLET APRON & WING DETAILS (2 OF 2)"

1



SECTION C-C
WING 3

BILL OF BARS

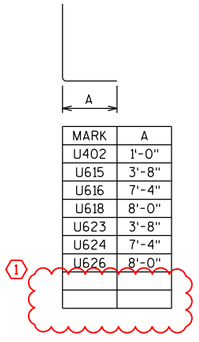
NOTE:
BAR DIMENSIONS ARE OUT TO OUT OF BAR.
THE FIRST OR FIRST TWO DIGITS
OF A BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR ⚠ SERIES	LOCATION
U401		9	36'-0"			CUTOFF WALL
U402		64	3'-5"	X		CUTOFF WALL
U403		25	14'-8"		X	APRON - LONG.
U404		27	30'-9"			APRON - LONG.
U405		12	14'-0"		X	APRON - LONG.
U406		24	43'-0"			APRON - TRANS.
U407		16	24'-11"		X	APRON - TRANS.
U408		7	12'-0"		X	APRON - TRANS.
U409		3	27'-3"			APRON - LONG.
U410		6	41'-8"			APRON - LONG.
U411		7	45'-0"			APRON - TRANS.
U412	X	7	3'-6"		X	WING 3 - VERT. - F.F.
U413	X	22	3'-1"			WING 3 - VERT. - F.F.
U414	X	22	6'-9"		X	WING 3 - VERT. - F.F.
U615	X	7	7'-0"	X	X	WING 3 - VERT. - B.F.
U616	X	14	11'-8"	X		WING 3 - VERT. - B.F.
U617	X	14	5'-6"		X	WING 3 - VERT. - B.F.
U618	X	15	13'-1"	X		WING 3 - VERT. - B.F.
U619	X	15	9'-1"		X	WING 3 - VERT. - B.F.
U420	X	20	3'-8"		X	WING 4 - VERT. - F.F.
U421	X	62	3'-1"			WING 4 - VERT. - F.F.
U422	X	62	6'-10"		X	WING 4 - VERT. - F.F.
U623	X	20	7'-1"	X	X	WING 4 - VERT. - B.F.
U624	X	41	11'-8"	X		WING 4 - VERT. - B.F.
U625	X	41	5'-8"		X	WING 4 - VERT. - B.F.
U626	X	41	13'-1"	X		WING 4 - VERT. - B.F.
U627	X	41	9'-1"		X	WING 4 - VERT. - B.F.
U428						NOT USED
U429	X	2	25'-3"			WING 3 - HORIZ.
U430	X	12	13'-0"		X	WING 3 - HORIZ.
U431	X	4	38'-7"			WING 4 - HORIZ.
U432	X	4	36'-0"			WING 4 - HORIZ.
U433	X	4	29'-9"			WING 4 - HORIZ.
U434	X	8	25'-9"		X	WING 4 - HORIZ.
U435						NOT USED
U436						NOT USED
U537	X	2	26'-6"			WING 3 - HORIZ. - TOP
U538	X	4	38'-4"			WING 4 - HORIZ. - TOP

⚠ LENGTH SHOWN FOR THE 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
U403	1 SERIES OF 25	1'-5" TO 27'-10"
U405	1 SERIES OF 12	1'-7" TO 26'-5"
U407	1 SERIES OF 16	4'-10" TO 45'-0"
U408	1 SERIES OF 7	4'-0" TO 20'-0"
U412	1 SERIES OF 7	2'-7" TO 4'-5"
U414	1 SERIES OF 22	3'-5" TO 10'-2"
U615	1 SERIES OF 7	6'-1" TO 7'-11"
U617	1 SERIES OF 14	3'-5" TO 7'-8"
U619	1 SERIES OF 15	8'-0" TO 10'-2"
U420	1 SERIES OF 20	2'-7" TO 4'-8"
U422	1 SERIES OF 62	3'-6" TO 10'-2"
U623	1 SERIES OF 20	6'-1" TO 8'-2"
U625	1 SERIES OF 41	3'-6" TO 7'-10"
U627	1 SERIES OF 41	8'-0" TO 10'-2"
U430	2 SERIES OF 6	2'-5" TO 23'-7"
U434	2 SERIES OF 4	6'-11" TO 44'-7"



MARK	A
U402	1'-0"
U615	3'-8"
U616	7'-4"
U618	8'-0"
U623	3'-8"
U624	7'-4"
U626	8'-0"

1

8

8

WISCONSIN
JAMES W. CARTER III
E-35165
05-23-2018
MILWAUKEE, WIS.
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY
1	5/25/18	WEST CELL FILL	JJO

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-51-160

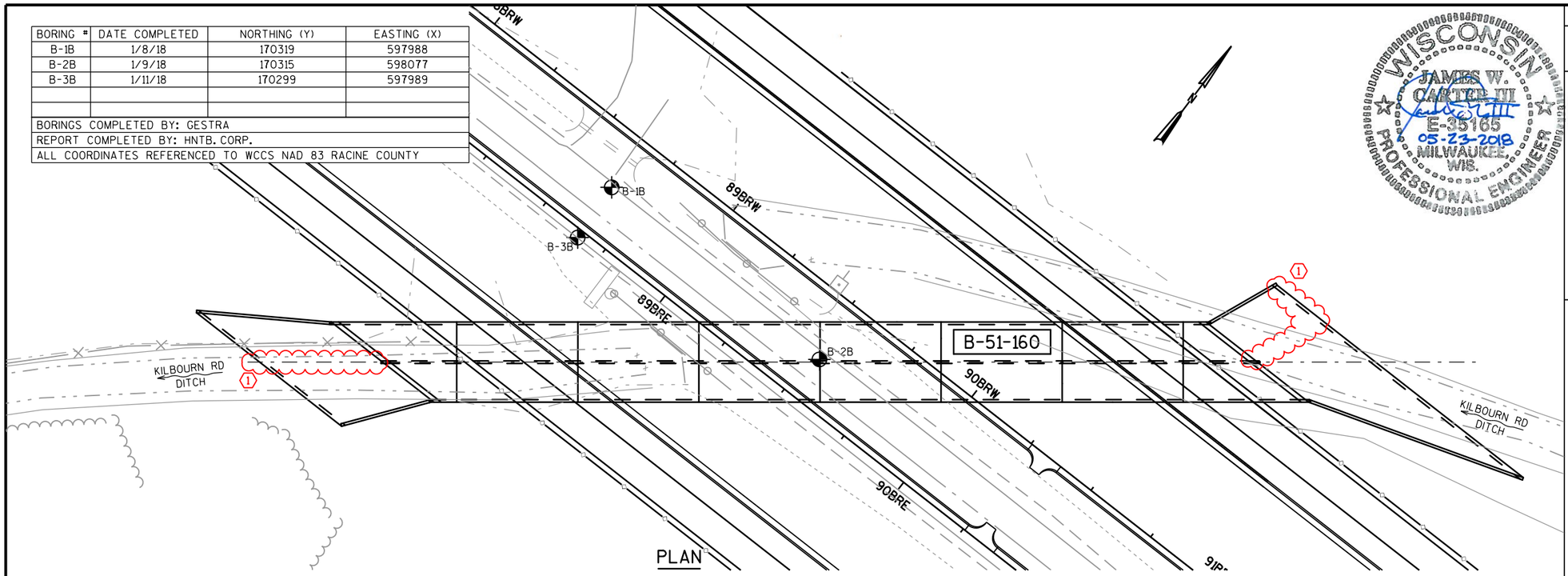
DRAWN BY HDA | PLANS CK'D. MPM

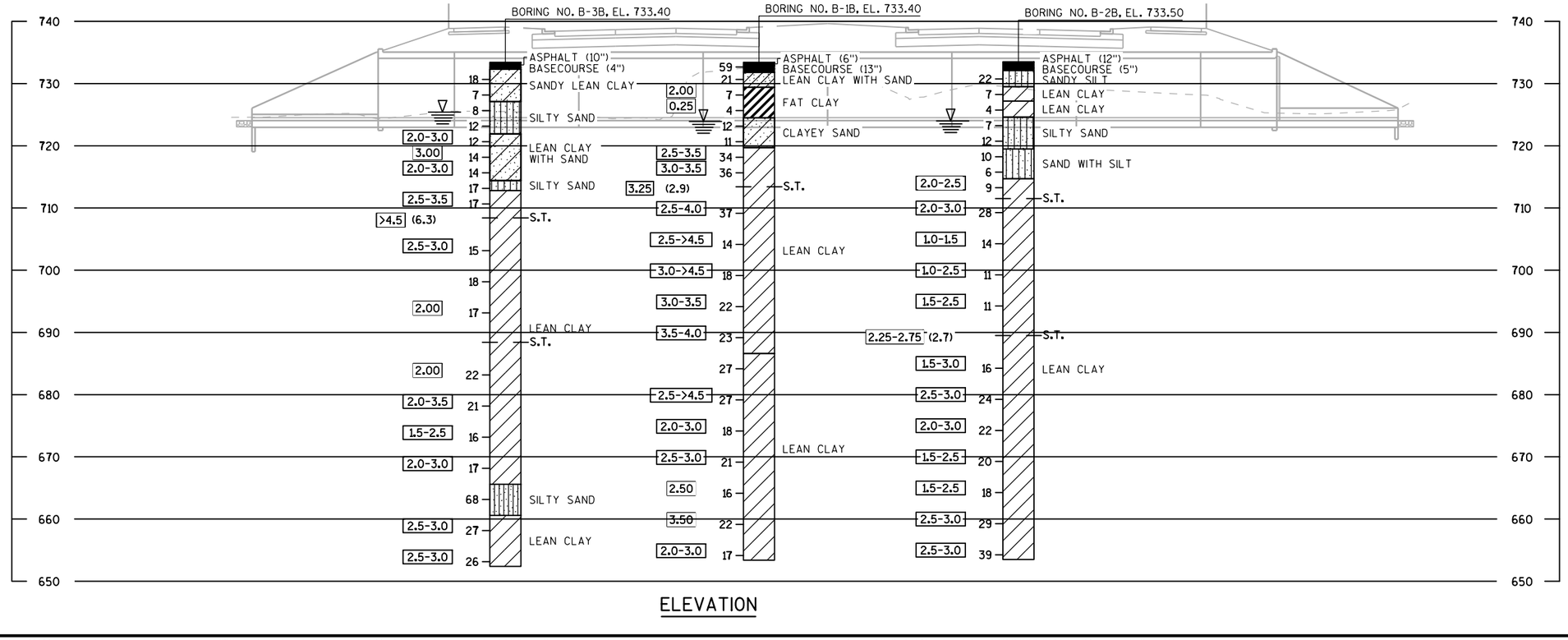
INLET APRON & WING DETAILS (3 OF 3)

SHEET 12 OF 13

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
B-1B	1/8/18	170319	597988
B-2B	1/9/18	170315	598077
B-3B	1/11/18	170299	597989

BORINGS COMPLETED BY: GESTRA
REPORT COMPLETED BY: HNTB. CORP.
ALL COORDINATES REFERENCED TO WCCS NAD 83 RACINE COUNTY





ELEVATION

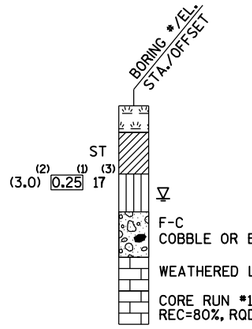
STATE PROJECT NUMBER

2704-09-70

MATERIAL SYMBOLS

ASPHALT/ BASECOURSE	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNCONFINED STRENGTH, AS DETERMINED BY UNCONFINED COMPRESSION TEST (TSF)

(3) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY
1	5/25/18	WEST CELL FILL	JJO

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-51-160

DRAWN BY JJO | PLANS CK'D. JWC

SUBSURFACE EXPLORATION

SHEET 13 OF 13

WISCONSIN
JAMES W. CARTER III
E-35165
05-23-2018
MILWAUKEE WIS.
PROFESSIONAL ENGINEER

8

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.6_All-Plan\Plans\B-51-160\Sheets\B-51-160_Subsurface.dgn PLOT DATE : 5/31/2018 8:05:11 AM PLOT BY : jodenwald PLOT NAME : $FILE$ PLOT SCALE : 40:1

PROJECT ID 2704-09-70

DIVISION 1A - Temporary Braun Road

STATION	Real Station	Distance	AREA (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate
			Cut	Fill	Topsoil Removal	EBS (In Cross Sections)	Excavation Marsh (In Cross Sections)	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	
93+50 AH	9350.00	0.00	88	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0
94+00	9400.00	50.00	61	0	50	0	0	138	0	89	0	0	138	0	89	0	0	138
94+50	9450.00	50.00	39	0	55	0	0	93	0	97	0	0	230	0	186	0	0	230
95+00	9500.00	50.00	31	0	55	0	0	65	0	102	0	0	295	0	287	0	0	295
95+50	9550.00	50.00	34	0	53	0	0	60	0	100	0	0	355	0	387	0	0	355
96+00	9600.00	50.00	61	0	34	0	0	88	0	80	0	0	443	0	468	0	0	443
96+50	9650.00	50.00	41	2	17	0	0	94	2	47	0	0	537	2	514	0	0	535
97+00	9700.00	50.00	24	2	21	0	0	60	3	35	0	0	597	6	549	0	0	591
97+50	9750.00	50.00	23	1	21	0	0	44	3	39	0	0	641	8	588	0	0	633
98+00	9800.00	50.00	28	0	19	0	0	47	1	37	0	0	688	9	626	0	0	679
98+50	9850.00	50.00	27	1	14	0	0	51	1	31	0	0	739	10	657	0	0	729
99+00	9900.00	50.00	26	1	12	0	0	49	1	25	0	0	788	11	681	0	0	777
99+50	9950.00	50.00	28	0	14	0	0	50	1	24	0	0	838	11	706	0	0	827
100+00	10000.00	50.00	22	1	0	0	0	46	1	13	0	0	884	12	719	0	0	871
100+50	10050.00	50.00	20	1	0	0	0	39	2	1	0	0	923	14	719	0	0	909
101+00	10100.00	50.00	28	0	0	0	0	45	1	1	0	0	968	15	720	0	0	953
101+50	10150.00	50.00	42	0	0	0	0	65	0	1	0	0	1033	15	721	0	0	1018
102+00	10200.00	50.00	88	0	34	0	0	120	0	32	0	0	1153	15	753	0	0	1138
102+50	10250.00	50.00	22	0	55	0	0	102	0	83	0	0	1255	15	835	0	0	1240
103+00	10300.00	50.00	24	0	59	0	0	43	0	106	0	0	1298	15	942	0	0	1283
103+50	10350.00	50.00	27	0	61	0	0	47	0	111	0	0	1345	15	1053	0	0	1330
104+00	10400.00	50.00	35	0	60	0	0	57	0	111	0	0	1402	15	1165	0	0	1387
104+50	10450.00	50.00	32	0	55	0	0	61	0	106	0	0	1463	15	1270	0	0	1448
105+00	10500.00	50.00	30	0	52	0	0	57	0	99	0	0	1520	15	1369	0	0	1505
105+50	10550.00	50.00	34	0	51	0	0	59	0	96	0	0	1580	15	1465	0	0	1565
106+00	10600.00	50.00	46	0	43	0	0	74	0	87	0	0	1654	15	1552	0	0	1639
106+50	10650.00	50.00	51	0	26	0	0	90	0	64	0	0	1744	15	1616	0	0	1729
107+00	10700.00	50.00	69	0	6	0	0	112	0	30	0	0	1856	15	1646	0	0	1841
107+50	10750.00	50.00	60	0	12	0	0	120	0	16	0	0	1976	15	1663	0	0	1961
108+00	10800.00	50.00	73	0	2	0	0	123	0	13	0	0	2099	15	1676	0	0	2084
108+50	10850.00	50.00	97	0	0	0	0	157	0	2	0	0	2257	15	1678	0	0	2242
109+00	10900.00	50.00	68	0	3	0	0	153	0	3	0	0	2409	15	1681	0	0	2394
109+50	10950.00	50.00	67	0	2	0	0	126	0	4	0	0	2535	15	1685	0	0	2520
110+00	11000.00	50.00	68	0	1	0	0	125	0	3	0	0	2660	15	1688	0	0	2645
110+50	11050.00	50.00	65	0	2	0	0	123	0	3	0	0	2783	15	1691	0	0	2768
111+00	11100.00	50.00	58	0	10	0	0	114	0	11	0	0	2897	15	1702	0	0	2882
111+50	11150.00	50.00	50	0	18	0	0	100	0	25	0	0	2997	15	1728	0	0	2982
112+00	11200.00	50.00	74	0	2	0	0	114	0	18	0	0	3112	15	1746	0	0	3097
112+50	11250.00	50.00	39	0	11	0	0	105	0	12	0	0	3216	15	1758	0	0	3201
113+00	11300.00	50.00	42	0	11	0	0	75	0	20	0	0	3291	15	1778	0	0	3276
113+50	11350.00	50.00	42	0	10	0	0	78	0	19	0	0	3369	15	1798	0	0	3354
114+00	11400.00	50.00	38	0	25	0	0	74	0	33	0	0	3444	15	1830	0	0	3428
114+50	11450.00	50.00	42	0	21	0	0	74	0	42	0	0	3517	15	1872	0	0	3502

PROJECT ID 2704-09-70

DIVISION 1A - Temporary Braun Road

STATION	Real Station	Distance	AREA (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate
			Cut	Fill	Topsoil Removal	EBS (In Cross Sections)	Excavation Marsh (In Cross Sections)	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	
115+00	11500.00	50.00	48	0	19	0	0	83	0	36	0	0	3600	15	1909	0	0	3585
115+50	11550.00	50.00	58	0	0	0	0	99	0	18	0	0	3699	15	1926	0	0	3684
116+00	11600.00	50.00	46	0	9	0	0	97	0	8	0	0	3796	15	1935	0	0	3781
116+50	11650.00	50.00	39	0	28	0	0	79	0	35	0	0	3875	15	1969	0	0	3860
117+00	11700.00	50.00	33	0	35	0	0	66	0	59	0	0	3941	15	2028	0	0	3926
117+50	11750.00	50.00	34	0	29	0	0	62	0	60	0	0	4002	15	2087	0	0	3987
118+00	11800.00	50.00	33	0	26	0	0	62	0	52	0	0	4065	15	2139	0	0	4050
118+50	11850.00	50.00	26	0	27	0	0	55	0	49	0	0	4120	15	2188	0	0	4105
119+00	11900.00	50.00	16	0	31	0	0	39	0	53	0	0	4159	15	2241	0	0	4143
119+50	11950.00	50.00	17	2	26	0	0	31	2	53	0	0	4190	18	2295	0	0	4172
120+00	12000.00	50.00	17	1	14	0	0	32	3	37	0	0	4221	21	2332	0	0	4201
120+50	12050.00	50.00	22	0	9	0	0	35	1	21	0	0	4257	22	2353	0	0	4235
121+00	12100.00	50.00	31	0	0	0	0	49	0	8	0	0	4305	22	2361	0	0	4283
121+50	12150.00	50.00	38	0	0	0	0	63	0	0	0	0	4369	22	2361	0	0	4347
122+00	12200.00	50.00	40	0	0	0	0	72	0	0	0	0	4441	22	2361	0	0	4419
122+50	12250.00	50.00	41	0	0	0	0	75	0	0	0	0	4516	22	2361	0	0	4494
123+00	12300.00	50.00	43	0	0	0	0	78	0	0	0	0	4594	22	2361	0	0	4572
123+50	12350.00	50.00	56	0	0	0	0	92	0	0	0	0	4686	22	2361	0	0	4665
124+00	12400.00	50.00	75	0	0	0	0	121	0	0	0	0	4807	22	2361	0	0	4786
124+50	12450.00	50.00	65	0	0	0	0	129	0	0	0	0	4937	22	2361	0	0	4915
125+00	12500.00	50.00	57	0	0	0	0	113	0	0	0	0	5050	22	2361	0	0	5028
125+50	12550.00	50.00	49	0	0	0	0	99	0	0	0	0	5149	22	2361	0	0	5127
126+00	12600.00	50.00	51	0	1	0	0	93	0	1	0	0	5242	22	2362	0	0	5220
126+50	12650.00	50.00	48	0	0	0	0	91	0	1	0	0	5333	22	2363	0	0	5311
127+00	12700.00	50.00	38	0	0	0	0	79	0	0	0	0	5412	22	2363	0	0	5391
127+50	12750.00	50.00	34	0	0	0	0	67	0	0	0	0	5479	22	2363	0	0	5458
128+00	12800.00	50.00	48	0	0	0	0	76	0	0	0	0	5555	22	2363	0	0	5534
128+50	12850.00	50.00	77	0	0	0	0	116	0	0	0	0	5671	22	2363	0	0	5650
129+00	12900.00	50.00	73	0	4	0	0	139	0	3	0	0	5810	22	2367	0	0	5789
129+50	12950.00	50.00	37	1	23	0	0	102	1	25	0	0	5912	22	2392	0	0	5890
130+00	13000.00	50.00	26	2	29	0	0	59	2	48	0	0	5970	25	2440	0	0	5946
130+50	13050.00	50.00	18	5	35	0	0	41	7	59	0	0	6012	31	2499	0	0	5980
131+00	13100.00	50.00	30	8	39	0	0	45	13	69	0	0	6056	44	2568	0	0	6012
131+50	13150.00	50.00	47	23	45	0	0	71	29	78	0	0	6128	73	2646	0	0	6055
132+00	13200.00	50.00	28	5	45	0	0	69	26	84	0	0	6197	99	2730	0	0	6097
132+50	13250.00	50.00	22	6	46	0	0	46	11	84	0	0	6242	110	2814	0	0	6132
133+00	13300.00	50.00	5	6	43	0	0	25	12	83	0	0	6267	122	2897	0	0	6146
133+50	13350.00	50.00	13	4	38	0	0	17	10	76	0	0	6285	132	2972	0	0	6153
134+00	13400.00	50.00	34	2	27	0	0	44	6	61	0	0	6328	137	3033	0	0	6191
134+50	13450.00	50.00	58	0	16	0	0	86	2	40	0	0	6414	139	3073	0	0	6275
135+00	13500.00	50.00	81	0	8	0	0	130	0	22	0	0	6544	140	3095	0	0	6404
135+50	13550.00	50.00	49	0	1	0	0	120	0	8	0	0	6664	140	3104	0	0	6525
136+00	13600.00	50.00	39	0	1	0	0	81	0	2	0	0	6745	140	3106	0	0	6605
136+50	13650.00	50.00	33	1	2	0	0	66	1	3	0	0	6811	141	3109	0	0	6671
137+00	13700.00	50.00	33	0	3	0	0	60	1	4	0	0	6872	142	3113	0	0	6730

PROJECT ID 2704-09-70

DIVISION 1A - Temporary Braun Road

STATION		Real Station	Distance	AREA (SF) Cut	Fill	Topsoil Removal	EBS (In Cross Sections)	Excavation Marsh (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	Cumulative Vol (CY) Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	Mass Ordinate
137+50		13750.00	50.00	38	0	15	0	0	65	0	16	0	0	6937	143	3129	0	0	6794
138+00		13800.00	50.00	37	0	28	0	0	69	0	39	0	0	7006	143	3169	0	0	6863
138+50		13850.00	50.00	38	0	34	0	0	69	0	57	0	0	7075	143	3226	0	0	6933
139+00		13900.00	50.00	60	0	12	0	0	91	0	43	0	0	7166	143	3268	0	0	7024
139+50		13950.00	50.00	73	0	0	0	0	123	0	11	0	0	7289	143	3280	0	0	7147
140+00		14000.00	50.00	60	0	5	0	0	123	0	5	0	0	7412	143	3285	0	0	7270
140+50		14050.00	50.00	42	0	30	0	0	94	0	33	0	0	7506	143	3317	0	0	7364
141+00		14100.00	50.00	28	0	47	0	0	65	0	71	0	0	7572	143	3388	0	0	7429
141+50		14150.00	50.00	34	0	35	0	0	58	0	76	0	0	7630	143	3464	0	0	7487
142+00		14200.00	50.00	55	0	0	0	0	83	0	32	0	0	7713	143	3497	0	0	7570
142+50		14250.00	50.00	28	0	0	0	0	77	0	0	0	0	7790	143	3497	0	0	7648
143+00		14300.00	50.00	27	0	0	0	0	51	0	0	0	0	7841	143	3497	0	0	7699
143+50		14350.00	50.00	24	0	33	0	0	47	0	31	0	0	7888	143	3528	0	0	7746
144+00		14400.00	50.00	18	0	44	0	0	39	0	71	0	0	7927	143	3599	0	0	7784
144+50		14450.00	50.00	12	2	56	0	0	28	2	93	0	0	7955	145	3692	0	0	7810
145+00		14500.00	50.00	9	6	57	0	0	19	7	105	0	0	7975	152	3797	0	0	7822
145+50		14550.00	50.00	9	7	57	0	0	16	12	106	0	0	7991	164	3903	0	0	7827
146+00		14600.00	50.00	11	3	46	0	0	18	9	95	0	0	8009	173	3998	0	0	7836
146+50		14650.00	50.00	16	0	23	0	0	24	3	64	0	0	8034	176	4061	0	0	7858
147+00		14700.00	50.00	22	0	10	0	0	35	0	30	0	0	8069	176	4092	0	0	7893
147+50		14750.00	50.00	22	0	3	0	0	41	0	12	0	0	8110	177	4104	0	0	7933
148+00		14800.00	50.00	20	0	6	0	0	39	0	8	0	0	8148	177	4112	0	0	7971
148+50		14850.00	50.00	24	0	11	0	0	41	0	16	0	0	8189	177	4128	0	0	8012
149+00		14900.00	50.00	20	0	22	0	0	41	0	31	0	0	8231	177	4159	0	0	8054
149+50		14950.00	50.00	20	0	25	0	0	37	0	43	0	0	8268	177	4202	0	0	8091
150+00		15000.00	50.00	23	0	27	0	0	40	0	48	0	0	8308	177	4249	0	0	8131
150+50		15050.00	50.00	12	0	0	0	0	33	0	25	0	0	8340	177	4275	0	0	8163
151+00		15100.00	50.00	11	2	0	0	0	21	1	0	0	0	8362	179	4275	0	0	8183
151+50		15150.00	50.00	15	0	0	0	0	24	1	0	0	0	8385	180	4275	0	0	8205
152+00		15200.00	50.00	13	0	0	0	0	25	0	0	0	0	8411	180	4275	0	0	8230
152+50		15250.00	50.00	18	0	0	0	0	29	1	0	0	0	8439	181	4275	0	0	8258
153+00		15300.00	50.00	18	0	0	0	0	34	0	0	0	0	8473	181	4275	0	0	8292
153+50		15350.00	50.00	21	0	0	0	0	36	0	0	0	0	8509	181	4275	0	0	8328
154+00		15400.00	50.00	18	2	0	0	0	36	2	0	0	0	8545	183	4275	0	0	8362
154+50	BK	15450.00	50.00	0	0	0	0	0	17	1	0	0	0	8561	185	4275	0	0	8377
								Column totals	8,561	185	4,275	0	0						

PROJECT ID 2704-09-70

DIVISION 1B - Temporary Braun Road

STATION		Real Station	Distance	AREA (SF) Cut	Fill	Topsoil Removal	EBS (In Cross Sections)	Excavation Marsh (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	Cumulative Vol (CY) Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	Ordinate
72+00	AH	7200.00	0.00	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
72+50		7250.00	50.00	37	0	7	0	0	34	0	11	0	0	34	0	11	0	0	34
73+00		7300.00	50.00	49	0	4	0	0	79	0	11	0	0	113	0	21	0	0	113
73+50		7350.00	50.00	63	0	4	0	0	103	0	7	0	0	217	0	29	0	0	217
74+00		7400.00	50.00	94	0	23	0	0	146	0	24	0	0	362	0	53	0	0	362
74+50		7450.00	50.00	35	0	19	0	0	120	0	38	0	0	482	0	92	0	0	482
75+00		7500.00	50.00	37	0	1	0	0	66	0	19	0	0	548	0	110	0	0	548
75+50		7550.00	50.00	54	0	0	0	0	84	0	1	0	0	633	0	111	0	0	633
76+00		7600.00	50.00	48	0	1	0	0	95	0	1	0	0	727	0	112	0	0	727
76+50		7650.00	50.00	85	0	4	0	0	123	0	4	0	0	850	0	116	0	0	850
77+00		7700.00	50.00	23	1	16	0	0	100	0	19	0	0	951	0	135	0	0	950
77+50		7750.00	50.00	1	30	38	0	0	22	28	50	0	0	973	29	185	0	0	945
78+00		7800.00	50.00	0	47	48	0	0	1	71	79	0	0	974	100	264	0	0	874
78+50		7850.00	50.00	0	55	49	0	0	0	94	90	0	0	974	194	354	0	0	780
79+00		7900.00	50.00	0	58	52	0	0	0	104	94	0	0	974	298	448	0	0	676
79+50		7950.00	50.00	30	40	51	0	0	28	91	95	0	0	1002	389	543	0	0	613
80+00		8000.00	50.00	3	18	46	0	0	31	54	90	0	0	1033	443	634	0	0	590
80+50		8050.00	50.00	12	4	42	0	0	14	21	82	0	0	1047	464	716	0	0	583
81+00		8100.00	50.00	53	0	34	0	0	59	4	71	0	0	1106	468	787	0	0	638
81+50		8150.00	50.00	63	0	33	0	0	107	0	62	0	0	1213	468	849	0	0	745
82+00		8200.00	50.00	54	0	39	0	0	108	0	67	0	0	1321	468	916	0	0	853
82+50		8250.00	50.00	50	0	42	0	0	97	0	75	0	0	1418	468	991	0	0	950
83+00		8300.00	50.00	57	0	32	0	0	99	0	68	0	0	1518	468	1059	0	0	1050
83+50		8350.00	50.00	63	0	8	0	0	111	0	37	0	0	1629	468	1096	0	0	1161
84+00		8400.00	50.00	61	3	2	0	0	115	2	10	0	0	1743	470	1106	0	0	1273
84+50		8450.00	50.00	49	7	4	0	0	102	9	5	0	0	1846	479	1111	0	0	1367
85+00		8500.00	50.00	61	7	3	0	0	102	13	6	0	0	1948	492	1117	0	0	1456
85+50		8550.00	50.00	17	30	11	0	0	72	34	14	0	0	2020	526	1131	0	0	1494
86+00		8600.00	50.00	1	92	31	0	0	16	113	39	0	0	2036	639	1170	0	0	1397
86+50		8650.00	50.00	0	167	40	0	0	1	239	66	0	0	2037	878	1236	0	0	1159
87+00		8700.00	50.00	0	304	60	0	0	0	436	93	0	0	2037	1314	1329	0	0	723
87+50		8750.00	50.00	5	405	0	1132	307	5	656	56	1048	284	2042	1970	1384	1048	284	72
88+00		8800.00	50.00	39	447	0	990	309	41	789	0	1965	570	2083	2759	1384	3012	855	-676
88+50		8850.00	50.00	35	531	0	909	307	69	906	0	1758	570	2151	3665	1384	4770	1425	-1513
89+00		8900.00	50.00	2	420	0	575	305	35	881	0	1374	567	2186	4545	1384	6144	1992	-2359
89+50		8950.00	50.00	0	329	0	436	283	2	694	0	936	545	2188	5239	1384	7080	2537	-3051
90+00		9000.00	50.00	0	202	0	540	245	0	491	0	904	489	2188	5730	1384	7984	3026	-3542
90+50		9050.00	50.00	36	295	0	691	254	34	460	0	1140	462	2222	6190	1384	9124	3488	-3968
91+00		9100.00	50.00	6	469	0	498	302	38	707	0	1101	515	2260	6897	1384	10225	4003	-4637
91+50		9150.00	50.00	246	201	0	591	302	233	620	0	1008	559	2494	7517	1384	11233	4562	-5024
92+00		9200.00	50.00	7	93	39	0	0	235	272	36	547	280	2728	7790	1420	11780	4842	-5061
92+50		9250.00	50.00	25	29	8	0	0	30	113	43	0	0	2758	7903	1463	11780	4842	-5145
93+00		9300.00	50.00	91	4	4	0	0	107	30	12	0	0	2866	7933	1475	11780	4842	-5068
93+50	BK	9350.00	50.00	88	0	46	0	0	166	3	47	0	0	3031	7937	1522	11780	4842	-4905
								Column totals	3,031	7,937	1,522	11,780	4,842						

PROJECT ID 2704-09-70

DIVISION 1C - Braun Road EB

STATION	Real Station	Distance	AREA (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate
			Cut	Fill	Topsoil Removal	EBS (In Cross Sections)	Excavation Marsh (In Cross Sections)	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	
71+30 AH	7130.00	0.00	13	159	93	0	0	0	0	0	0	0	0	0	0	0	0	0
71+50	7150.00	20.00	11	155	96	0	0	9	116	70	0	0	9	116	70	0	0	-108
72+00	7200.00	50.00	7	147	103	0	0	17	280	184	0	0	25	397	254	0	0	-371
72+50	7250.00	50.00	23	71	97	0	0	28	202	186	0	0	53	599	440	0	0	-546
73+00	7300.00	50.00	58	46	76	0	0	75	109	161	0	0	128	708	601	0	0	-580
73+50	7350.00	50.00	8	87	99	0	0	61	124	162	0	0	188	831	763	0	0	-643
74+00	7400.00	50.00	1	144	103	0	0	8	215	187	0	0	196	1046	951	0	0	-850
74+50	7450.00	50.00	42	62	68	0	0	40	191	158	0	0	236	1237	1108	0	0	-1001
75+00	7500.00	50.00	175	11	0	0	0	201	67	63	0	0	437	1304	1171	0	0	-867
75+50	7550.00	50.00	259	0	0	0	0	402	10	0	0	0	838	1314	1171	0	0	-475
76+00	7600.00	50.00	213	6	0	0	0	437	6	0	0	0	1275	1320	1171	0	0	-44
76+50	7650.00	50.00	36	72	70	0	0	230	73	65	0	0	1506	1393	1236	0	0	113
77+00	7700.00	50.00	16	215	95	0	0	48	266	153	0	0	1553	1659	1388	0	0	-106
77+50	7750.00	50.00	6	320	102	0	0	20	496	183	0	0	1573	2155	1571	0	0	-582
78+00	7800.00	50.00	5	387	101	0	0	9	655	188	0	0	1583	2810	1759	0	0	-1227
78+50	7850.00	50.00	0	463	102	0	0	4	787	188	0	0	1587	3597	1946	0	0	-2010
79+00	7900.00	50.00	0	440	101	0	0	0	835	188	0	0	1587	4432	2134	0	0	-2845
79+50	7950.00	50.00	1	360	96	0	0	1	740	182	0	0	1588	5172	2317	0	0	-3584
80+00	8000.00	50.00	9	232	92	0	0	10	548	174	0	0	1598	5721	2491	0	0	-4123
80+50	8050.00	50.00	18	113	84	0	0	25	320	163	0	0	1623	6041	2654	0	0	-4417
81+00	8100.00	50.00	90	51	32	0	0	100	152	107	0	0	1723	6192	2761	0	0	-4469
81+50	8150.00	50.00	92	49	24	0	0	169	92	52	0	0	1892	6285	2812	0	0	-4393
82+00	8200.00	50.00	70	67	37	0	0	150	107	57	0	0	2042	6392	2869	0	0	-4350
82+50	8250.00	50.00	43	78	61	0	0	104	134	91	0	0	2146	6526	2961	0	0	-4380
83+00	8300.00	50.00	105	41	8	0	0	137	111	64	0	0	2283	6637	3025	0	0	-4354
83+50	8350.00	50.00	119	18	0	0	0	208	55	7	0	0	2491	6692	3032	0	0	-4201
84+00	8400.00	50.00	110	29	0	0	0	212	44	0	0	0	2703	6736	3032	0	0	-4033
84+50	8450.00	50.00	60	65	40	0	0	157	87	37	0	0	2860	6823	3069	0	0	-3962
85+00	8500.00	50.00	19	92	74	0	0	73	145	105	0	0	2933	6968	3174	0	0	-4035
85+50	8550.00	50.00	0	225	87	0	0	17	293	149	0	0	2950	7261	3323	0	0	-4311
86+00	8600.00	50.00	0	510	92	0	0	0	680	166	0	0	2950	7941	3489	0	0	-4991
86+50	8650.00	50.00	0	679	94	0	0	0	1101	173	0	0	2950	9043	3662	0	0	-6093
87+00	8700.00	50.00	0	747	96	0	0	0	1321	176	0	0	2950	10364	3838	0	0	-7414
87+50	8750.00	50.00	0	672	0	0	0	0	1315	89	0	0	2950	11678	3927	0	0	-8728
88+00	8800.00	50.00	39	595	0	0	0	36	1174	0	0	0	2986	12852	3927	0	0	-9866
88+50	8850.00	50.00	35	508	0	0	0	69	1022	0	0	0	3055	13874	3927	0	0	-10819
89+00	8900.00	50.00	2	580	0	0	0	34	1008	0	0	0	3089	14882	3927	0	0	-11793
89+50	8950.00	50.00	0	475	0	0	0	2	977	0	0	0	3091	15858	3927	0	0	-12767
90+00	9000.00	50.00	1	527	0	0	0	1	927	0	0	0	3092	16786	3927	0	0	-13694
90+50	9050.00	50.00	1	476	0	0	0	2	928	0	0	0	3094	17714	3927	0	0	-14620
91+00	9100.00	50.00	0	452	0	0	0	1	859	0	0	0	3094	18572	3927	0	0	-15478
91+50	9150.00	50.00	0	390	0	0	0	0	779	0	0	0	3094	19352	3927	0	0	-16257
92+00	9200.00	50.00	6	269	81	0	0	5	610	75	0	0	3100	19962	4002	0	0	-16862

PROJECT ID 2704-09-70

DIVISION 1C - Braun Road EB

STATION	Real Station	Distance	AREA (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate
			Cut	Fill	Topsoil Removal	EBS (In Cross Sections)	Excavation Marsh (In Cross Sections)	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	
92+50	9250.00	50.00	8	128	73	0	0	12	368	143	0	0	3112	20330	4145	0	0	-17218
93+00	9300.00	50.00	47	66	42	0	0	51	180	106	0	0	3162	20510	4251	0	0	-17348
93+50	9350.00	50.00	70	56	24	0	0	108	113	60	0	0	3270	20623	4312	0	0	-17353
94+00	9400.00	50.00	149	3	15	0	0	203	55	36	0	0	3473	20678	4347	0	0	-17205
94+50	9450.00	50.00	192	1	9	0	0	316	4	22	0	0	3788	20682	4369	0	0	-16893
95+00	9500.00	50.00	157	5	14	0	0	322	5	21	0	0	4111	20687	4390	0	0	-16576
95+50	9550.00	50.00	167	4	20	0	0	300	8	32	0	0	4411	20695	4422	0	0	-16284
96+00	9600.00	50.00	131	2	10	0	0	276	5	28	0	0	4687	20700	4450	0	0	-16013
96+50	9650.00	50.00	240	0	0	0	0	343	2	9	0	0	5030	20702	4459	0	0	-15672
97+00	9700.00	50.00	254	0	0	0	0	457	0	0	0	0	5488	20702	4459	0	0	-15215
97+50	9750.00	50.00	330	0	0	0	0	541	0	0	0	0	6029	20702	4459	0	0	-14674
98+00	9800.00	50.00	282	0	0	0	0	567	0	0	0	0	6596	20702	4459	0	0	-14106
98+50	9850.00	50.00	224	0	0	0	0	469	0	0	0	0	7065	20702	4459	0	0	-13637
99+00	9900.00	50.00	237	0	0	0	0	427	0	0	0	0	7492	20702	4459	0	0	-13210
99+50	9950.00	50.00	262	0	0	0	0	462	0	0	0	0	7954	20702	4459	0	0	-12748
100+00	10000.00	50.00	340	0	0	0	0	558	0	0	0	0	8512	20702	4459	0	0	-12190
100+50	10050.00	50.00	328	0	0	0	0	618	0	0	0	0	9131	20702	4459	0	0	-11572
101+00	10100.00	50.00	274	0	0	0	0	557	0	0	0	0	9687	20702	4459	0	0	-11015
101+50	10150.00	50.00	138	43	2	0	0	381	40	2	0	0	10068	20742	4461	0	0	-10673
102+00	10200.00	50.00	209	0	3	0	0	321	40	5	0	0	10389	20781	4465	0	0	-10392
102+50	10250.00	50.00	161	10	0	0	0	343	9	3	0	0	10732	20790	4468	0	0	-10058
103+00	10300.00	50.00	100	21	11	0	0	242	29	10	0	0	10974	20819	4478	0	0	-9845
103+50	10350.00	50.00	90	22	18	0	0	176	40	27	0	0	11150	20860	4505	0	0	-9710
104+00	10400.00	50.00	38	99	58	0	0	118	113	70	0	0	11268	20972	4575	0	0	-9704
104+50	10450.00	50.00	20	141	76	0	0	53	223	124	0	0	11322	21195	4700	0	0	-9873
105+00	10500.00	50.00	15	154	83	0	0	32	273	148	0	0	11354	21468	4847	0	0	-10114
105+50	10550.00	50.00	18	143	77	0	0	31	275	148	0	0	11385	21743	4996	0	0	-10358
106+00	10600.00	50.00	27	126	70	0	0	41	249	136	0	0	11426	21992	5132	0	0	-10566
106+50	10650.00	50.00	35	122	63	0	0	57	230	123	0	0	11483	22222	5254	0	0	-10739
107+00	10700.00	50.00	37	123	62	0	0	67	227	116	0	0	11550	22449	5370	0	0	-10899
107+50	10750.00	50.00	36	121	62	0	0	68	225	115	0	0	11618	22675	5484	0	0	-11056
108+00	10800.00	50.00	35	118	64	0	0	66	221	117	0	0	11684	22896	5601	0	0	-11212
108+50	10850.00	50.00	37	120	62	0	0	67	220	117	0	0	11751	23116	5718	0	0	-11365
109+00	10900.00	50.00	35	119	64	0	0	67	221	117	0	0	11818	23338	5835	0	0	-11519
109+50	10950.00	50.00	48	105	50	0	0	77	207	106	0	0	11896	23544	5940	0	0	-11649
110+00	11000.00	50.00	64	87	35	0	0	104	177	79	0	0	12000	23721	6020	0	0	-11721
110+50	11050.00	50.00	61	86	38	0	0	116	160	68	0	0	12117	23881	6088	0	0	-11764
111+00	11100.00	50.00	52	96	48	0	0	105	168	80	0	0	12222	24049	6168	0	0	-11827
111+50	11150.00	50.00	51	91	49	0	0	96	173	90	0	0	12318	24223	6258	0	0	-11905
112+00	11200.00	50.00	61	86	38	0	0	104	164	81	0	0	12422	24387	6339	0	0	-11965

PROJECT ID 2704-09-70
DIVISION 1C - Braun Road EB

STATION	Real Station	Distance	AREA (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate
			Cut	Fill	Topsoil Removal	EBS (In Cross Sections)	Excavation Marsh (In Cross Sections)	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	
112+50	11250.00	50.00	71	83	29	0	0	122	156	62	0	0	12544	24543	6401	0	0	-11999
113+00	11300.00	50.00	63	97	37	0	0	125	167	61	0	0	12669	24710	6462	0	0	-12041
113+50	11350.00	50.00	49	122	53	0	0	104	203	84	0	0	12773	24913	6546	0	0	-12140
114+00	11400.00	50.00	32	139	65	0	0	74	242	110	0	0	12847	25154	6656	0	0	-12307
114+50	11450.00	50.00	28	142	67	0	0	55	260	122	0	0	12902	25414	6778	0	0	-12512
115+00	11500.00	50.00	43	118	54	0	0	66	241	112	0	0	12968	25655	6889	0	0	-12688
115+50	11550.00	50.00	37	105	59	0	0	74	207	105	0	0	13042	25862	6994	0	0	-12820
116+00	11600.00	50.00	28	102	70	0	0	60	191	119	0	0	13102	26054	7113	0	0	-12952
116+50	11650.00	50.00	22	105	74	0	0	46	191	133	0	0	13148	26245	7246	0	0	-13097
117+00	11700.00	50.00	41	87	54	0	0	58	177	119	0	0	13206	26422	7365	0	0	-13216
117+50	11750.00	50.00	54	46	39	0	0	88	122	86	0	0	13295	26545	7451	0	0	-13250
118+00	11800.00	50.00	97	26	16	0	0	141	66	51	0	0	13435	26611	7502	0	0	-13176
118+50	11850.00	50.00	202	0	0	0	0	277	24	15	0	0	13712	26635	7516	0	0	-12923
119+00	11900.00	50.00	291	0	0	0	0	456	0	0	0	0	14168	26635	7516	0	0	-12467
119+50	11950.00	50.00	460	0	0	0	0	695	0	0	0	0	14863	26635	7516	0	0	-11772
120+00	12000.00	50.00	432	0	0	0	0	826	0	0	0	0	15690	26635	7516	0	0	-10946
120+50	12050.00	50.00	310	0	0	0	0	688	0	0	0	0	16377	26635	7516	0	0	-10258
121+00	12100.00	50.00	410	0	0	0	0	667	0	0	0	0	17044	26635	7516	0	0	-9591
121+50	12150.00	50.00	355	0	0	0	0	709	0	0	0	0	17753	26635	7516	0	0	-8882
122+00	12200.00	50.00	254	0	0	0	0	564	0	0	0	0	18317	26635	7516	0	0	-8318
122+50	12250.00	50.00	194	0	0	0	0	415	0	0	0	0	18732	26635	7516	0	0	-7903
123+00	12300.00	50.00	108	65	21	0	0	279	60	20	0	0	19011	26696	7536	0	0	-7684
123+50	12350.00	50.00	89	72	26	0	0	182	127	44	0	0	19193	26823	7580	0	0	-7630
124+00	12400.00	50.00	81	91	33	0	0	157	151	55	0	0	19350	26974	7635	0	0	-7624
124+50	12450.00	50.00	54	102	45	0	0	125	179	72	0	0	19475	27153	7707	0	0	-7678
125+00	12500.00	50.00	41	111	55	0	0	88	198	93	0	0	19563	27351	7799	0	0	-7787
125+50	12550.00	50.00	37	106	62	0	0	72	202	108	0	0	19635	27552	7908	0	0	-7917
126+00	12600.00	50.00	41	114	59	0	0	72	204	112	0	0	19707	27756	8020	0	0	-8049
126+50	12650.00	50.00	55	101	46	0	0	89	199	97	0	0	19797	27955	8117	0	0	-8159
127+00	12700.00	50.00	78	79	30	0	0	123	167	71	0	0	19920	28122	8188	0	0	-8202
127+50	12750.00	50.00	124	48	0	0	0	186	117	28	0	0	20106	28239	8217	0	0	-8133
128+00	12800.00	50.00	156	20	0	0	0	259	63	0	0	0	20365	28302	8217	0	0	-7937
128+50	12850.00	50.00	142	25	0	0	0	276	42	0	0	0	20641	28344	8217	0	0	-7703
129+00	12900.00	50.00	78	85	17	0	0	204	102	16	0	0	20845	28446	8233	0	0	-7601
129+50	12950.00	50.00	42	134	53	0	0	111	203	65	0	0	20956	28649	8298	0	0	-7693
130+00	13000.00	50.00	18	176	81	0	0	55	287	124	0	0	21011	28936	8422	0	0	-7925
130+50	13050.00	50.00	7	159	89	0	0	23	311	157	0	0	21035	29247	8579	0	0	-8212
131+00	13100.00	50.00	6	253	93	0	0	13	382	169	0	0	21047	29629	8749	0	0	-8582
131+50	13150.00	50.00	5	374	99	0	0	10	581	178	0	0	21057	30210	8927	0	0	-9153
132+00	13200.00	50.00	4	336	98	0	0	9	658	183	0	0	21066	30868	9109	0	0	-9802

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FILE NAME: \\milw00\ingrproj\2704-09-70\ti\cds\090101_ew.ppt PLOT DATE : 5/25/2018 2:59:03 PM PLOT BY : HNTB. CORP PLOT NAME : 090101_ew8 PLOT SCALE : 1:1

PROJECT ID 2704-09-70

DIVISION 1C - Braun Road EB

STATION	Real Station	Distance	AREA (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate
			Cut	Fill	Topsoil Removal	EBS (In Cross Sections)	Excavation Marsh (In Cross Sections)	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	
132+50	13250.00	50.00	3	358	100	0	0	6	643	183	0	0	21072	31510	9293	0	0	-10438
133+00	13300.00	50.00	2	344	100	0	0	4	650	185	0	0	21077	32160	9478	0	0	-11083
133+50	13350.00	50.00	3	338	96	0	0	5	631	182	0	0	21081	32792	9659	0	0	-11710
134+00	13400.00	50.00	11	185	87	0	0	13	483	170	0	0	21094	33275	9829	0	0	-12181
134+50	13450.00	50.00	37	117	59	0	0	44	279	135	0	0	21138	33554	9964	0	0	-12416
135+00	13500.00	50.00	66	91	27	0	0	95	193	79	0	0	21234	33747	10043	0	0	-12513
135+50	13550.00	50.00	89	81	9	0	0	143	159	33	0	0	21377	33906	10076	0	0	-12529
136+00	13600.00	50.00	110	68	0	0	0	184	138	8	0	0	21561	34044	10084	0	0	-12483
136+50	13650.00	50.00	143	49	0	0	0	235	108	0	0	0	21796	34152	10084	0	0	-12356
137+00	13700.00	50.00	95	76	9	0	0	221	115	8	0	0	22017	34268	10092	0	0	-12250
137+50	13750.00	50.00	27	119	69	0	0	113	181	73	0	0	22130	34448	10165	0	0	-12318
138+00	13800.00	50.00	9	171	88	0	0	33	269	146	0	0	22163	34717	10311	0	0	-12554
138+50	13850.00	50.00	15	163	91	0	0	22	310	166	0	0	22185	35027	10477	0	0	-12842
139+00	13900.00	50.00	15	93	101	0	0	27	237	178	0	0	22212	35264	10656	0	0	-13052
139+50	13950.00	50.00	16	88	113	0	0	28	167	198	0	0	22240	35431	10854	0	0	-13191
140+00	14000.00	50.00	15	99	112	0	0	28	173	209	0	0	22269	35604	11063	0	0	-13335
140+50	14050.00	50.00	12	98	115	0	0	25	182	210	0	0	22294	35786	11273	0	0	-13493
141+00	14100.00	50.00	12	84	114	0	0	22	169	212	0	0	22316	35955	11485	0	0	-13639
141+50	14150.00	50.00	30	63	110	0	0	39	136	207	0	0	22355	36091	11692	0	0	-13736
142+00	14200.00	50.00	103	0	6	0	0	123	58	107	0	0	22478	36150	11799	0	0	-13671
142+50	14250.00	50.00	150	0	4	0	0	234	0	9	0	0	22712	36150	11808	0	0	-13437
143+00	14300.00	50.00	168	0	5	0	0	295	0	8	0	0	23007	36150	11816	0	0	-13143
143+50	14350.00	50.00	97	34	15	0	0	246	32	19	0	0	23253	36181	11835	0	0	-12928
144+00	14400.00	50.00	71	50	34	0	0	156	78	46	0	0	23409	36259	11881	0	0	-12850
144+50	14450.00	50.00	42	61	63	0	0	105	102	90	0	0	23514	36362	11970	0	0	-12848
145+00	14500.00	50.00	33	67	73	0	0	69	118	126	0	0	23583	36479	12096	0	0	-12897
145+50	14550.00	50.00	20	72	76	0	0	49	128	138	0	0	23632	36607	12234	0	0	-12976
146+00	14600.00	50.00	39	53	57	0	0	55	115	124	0	0	23686	36723	12358	0	0	-13036
146+50	14650.00	50.00	87	38	11	0	0	117	85	63	0	0	23804	36807	12420	0	0	-13003
147+00	14700.00	50.00	90	43	12	0	0	165	75	21	0	0	23968	36883	12441	0	0	-12914
147+50	14750.00	50.00	98	34	6	0	0	175	72	16	0	0	24143	36954	12457	0	0	-12811
148+00	14800.00	50.00	113	18	2	0	0	195	49	7	0	0	24338	37003	12464	0	0	-12665
148+50	14850.00	50.00	116	24	0	0	0	212	39	2	0	0	24550	37042	12465	0	0	-12492
149+00	14900.00	50.00	79	50	23	0	0	180	68	21	0	0	24730	37110	12486	0	0	-12380
149+50	14950.00	50.00	39	75	57	0	0	109	116	74	0	0	24839	37226	12560	0	0	-12387
149+84	14984.00	34.00	31	91	67	0	0	44	105	78	0	0	24883	37331	12638	0	0	-12448
150+00	15000.00	16.00	70	1	0	0	0	30	27	20	0	0	24913	37358	12658	0	0	-12445
150+50	15050.00	50.00	77	0	0	0	0	137	1	0	0	0	25049	37359	12658	0	0	-12310
151+00	15100.00	50.00	43	1	0	0	0	111	1	0	0	0	25161	37360	12658	0	0	-12200
151+50	15150.00	50.00	82	0	0	0	0	115	1	0	0	0	25276	37361	12658	0	0	-12086

PROJECT ID 2704-09-70

DIVISION 1C - Braun Road EB

STATION		Real Station	Distance	AREA (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate
				Cut	Fill	Topsoil Removal	EBS (In Cross Sections)	Excavation Marsh (In Cross Sections)	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	
152+00		15200.00	50.00	100	0	0	0	0	168	0	0	0	0	25444	37361	12658	0	0	-11917
152+50		15250.00	50.00	39	0	0	0	0	129	0	0	0	0	25573	37361	12658	0	0	-11789
153+00		15300.00	50.00	24	0	0	0	0	58	0	0	0	0	25631	37362	12658	0	0	-11731
153+50		15350.00	50.00	31	0	0	0	0	51	0	0	0	0	25681	37362	12658	0	0	-11681
154+00		15400.00	50.00	31	0	0	0	0	58	0	0	0	0	25739	37362	12658	0	0	-11623
154+50	BK	15450.00	50.00	31	7	0	0	0	57	7	0	0	0	25797	37369	12658	0	0	-11572
								Column totals	25,797	37,369	12,658	0	0						

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	EARTHWORK	SHEET: 539	E

FILE NAME: \\milw00\ingrproj\2704-09-70\ti\cds\090101_ew.ppt PLOT DATE : 5/25/2018 2:59:03 PM PLOT BY : HNTB, CORP PLOT NAME : 090101_ew10 PLOT SCALE : 1:1

PROJECT ID 2704-09-70

DIVISION 2B - Braun Road WB

STATION	Real Station	Distance	AREA (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate
			Cut	Fill	Topsoil Removal	EBS (In Cross Sections)	Excavation Marsh (In Cross Sections)	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	
71+30 AH	7130.00	0.00	117	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71+50	7150.00	20.00	109	65	2	0	0	83	43	1	0	0	83	43	1	0	0	40
72+00	7200.00	50.00	118	85	5	0	0	210	140	6	0	0	293	183	7	0	0	111
72+50	7250.00	50.00	137	27	7	0	0	237	104	11	0	0	530	286	18	0	0	244
73+00	7300.00	50.00	134	65	4	0	0	251	85	11	0	0	781	371	29	0	0	410
73+50	7350.00	50.00	146	56	4	0	0	259	112	7	0	0	1040	483	36	0	0	557
74+00	7400.00	50.00	50	74	23	0	0	181	121	24	0	0	1221	604	60	0	0	617
74+50	7450.00	50.00	102	34	19	0	0	141	101	38	0	0	1362	705	99	0	0	658
75+00	7500.00	50.00	117	17	1	0	0	203	48	19	0	0	1565	752	117	0	0	813
75+50	7550.00	50.00	233	0	0	0	0	324	16	1	0	0	1889	768	119	0	0	1121
76+00	7600.00	50.00	175	0	1	0	0	378	0	1	0	0	2267	768	119	0	0	1498
76+50	7650.00	50.00	120	27	4	0	0	273	25	4	0	0	2540	793	124	0	0	1747
77+00	7700.00	50.00	81	34	16	0	0	187	56	19	0	0	2727	849	142	0	0	1877
77+50	7750.00	50.00	25	120	38	0	0	98	142	50	0	0	2825	992	192	0	0	1833
78+00	7800.00	50.00	9	145	48	0	0	31	245	79	0	0	2856	1237	272	0	0	1619
78+50	7850.00	50.00	4	160	49	0	0	12	282	90	0	0	2868	1519	362	0	0	1349
79+00	7900.00	50.00	0	124	52	0	0	4	262	94	0	0	2872	1781	455	0	0	1091
79+50	7950.00	50.00	3	119	51	0	0	3	225	95	0	0	2875	2006	551	0	0	869
80+00	8000.00	50.00	46	154	46	0	0	45	253	90	0	0	2920	2260	641	0	0	660
80+50	8050.00	50.00	18	142	42	0	0	59	274	82	0	0	2979	2534	723	0	0	445
81+00	8100.00	50.00	31	125	34	0	0	46	247	71	0	0	3025	2781	794	0	0	244
81+50	8150.00	50.00	64	84	33	0	0	88	194	62	0	0	3113	2975	857	0	0	138
82+00	8200.00	50.00	23	111	39	0	0	81	181	67	0	0	3194	3156	923	0	0	38
82+50	8250.00	50.00	18	114	42	0	0	38	208	75	0	0	3232	3364	998	0	0	-132
83+00	8300.00	50.00	36	89	32	0	0	49	188	68	0	0	3281	3552	1066	0	0	-271
83+50	8350.00	50.00	81	56	8	0	0	108	135	37	0	0	3389	3687	1103	0	0	-298
84+00	8400.00	50.00	124	33	2	0	0	189	83	10	0	0	3578	3770	1113	0	0	-191
84+50	8450.00	50.00	149	39	4	0	0	252	66	5	0	0	3831	3836	1118	0	0	-5
85+00	8500.00	50.00	170	59	3	0	0	295	91	6	0	0	4126	3926	1124	0	0	199
85+50	8550.00	50.00	106	29	11	0	0	255	82	14	0	0	4381	4008	1138	0	0	373
86+00	8600.00	50.00	79	137	31	0	0	171	154	39	0	0	4552	4163	1177	0	0	389
86+50	8650.00	50.00	41	206	40	0	0	111	318	66	0	0	4663	4480	1243	0	0	182
87+00	8700.00	50.00	0	518	60	0	0	38	670	93	0	0	4701	5151	1336	0	0	-450
87+50	8750.00	50.00	0	256	0	0	0	0	717	56	0	0	4701	5868	1392	0	0	-1167
88+00	8800.00	50.00	12	278	0	0	0	11	495	0	0	0	4712	6363	1392	0	0	-1651
88+50	8850.00	50.00	9	308	0	0	0	19	543	0	0	0	4731	6906	1392	0	0	-2175
89+00	8900.00	50.00	1	340	0	0	0	9	600	0	0	0	4740	7506	1392	0	0	-2766
89+50	8950.00	50.00	1	533	0	0	0	2	809	0	0	0	4743	8315	1392	0	0	-3572
90+00	9000.00	50.00	5	665	0	0	0	6	1109	0	0	0	4749	9424	1392	0	0	-4676
90+50	9050.00	50.00	36	399	0	0	0	38	985	0	0	0	4787	10409	1392	0	0	-5622
91+00	9100.00	50.00	5	96	0	0	0	38	458	0	0	0	4825	10866	1392	0	0	-6042
91+50	9150.00	50.00	59	175	0	0	0	60	251	0	0	0	4885	11117	1392	0	0	-6232
92+00	9200.00	50.00	115	206	39	0	0	161	353	36	0	0	5046	11470	1427	0	0	-6424

PROJECT ID 2704-09-70

DIVISION 2B - Braun Road WB

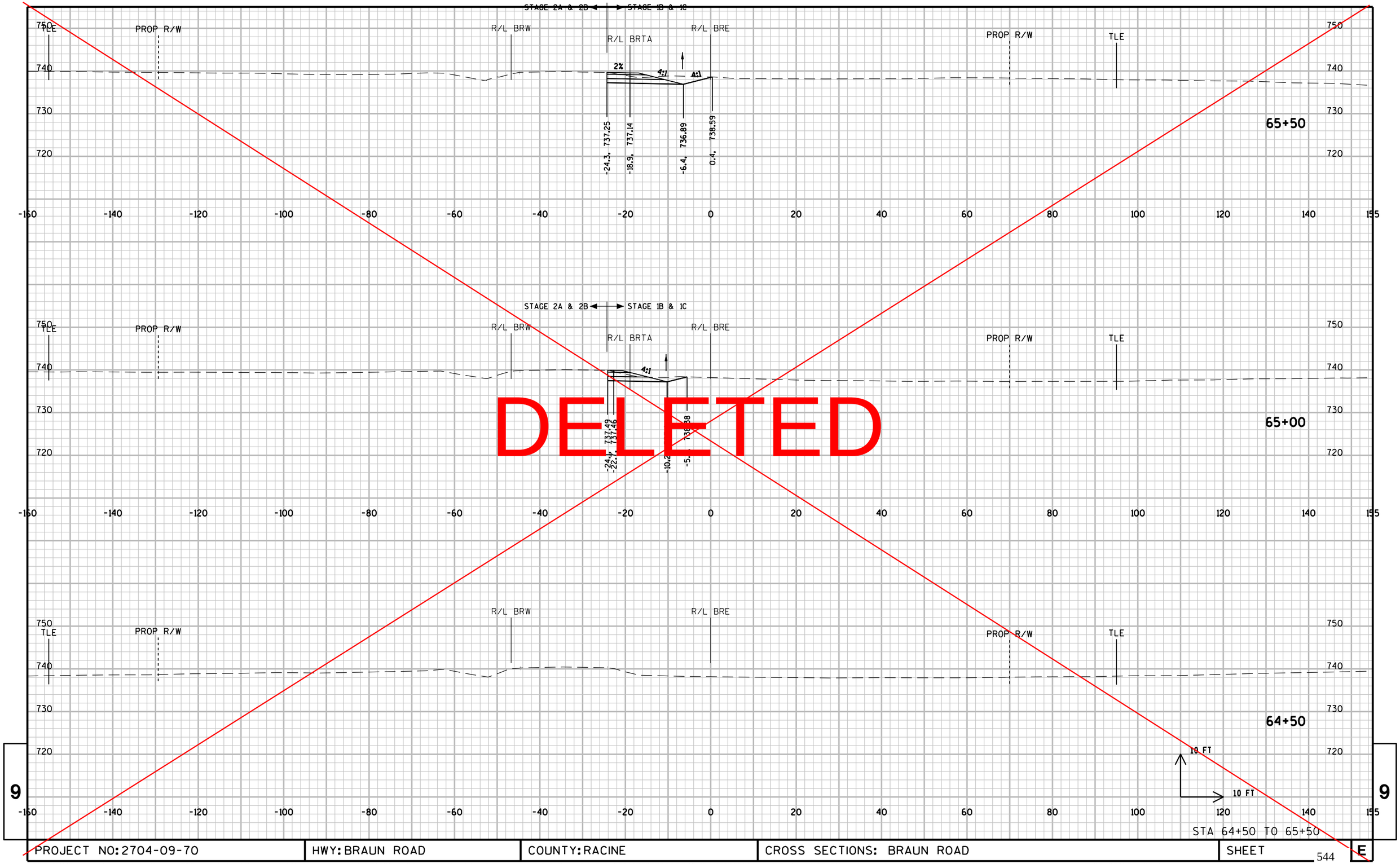
STATION	Real Station	Distance	AREA (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate
			Cut	Fill	Topsoil Removal	EBS (In Cross Sections)	Excavation Marsh (In Cross Sections)	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	
92+50	9250.00	50.00	169	71	8	0	0	262	256	43	0	0	5308	11726	1471	0	0	-6417
93+00	9300.00	50.00	182	137	4	0	0	325	193	12	0	0	5633	11918	1483	0	0	-6285
93+50	9350.00	50.00	42	231	46	0	0	207	341	47	0	0	5840	12259	1529	0	0	-6419
94+00	9400.00	50.00	16	300	50	0	0	54	491	89	0	0	5894	12750	1618	0	0	-6857
94+50	9450.00	50.00	26	339	55	0	0	39	592	97	0	0	5933	13342	1715	0	0	-7409
95+00	9500.00	50.00	9	363	55	0	0	33	650	102	0	0	5966	13992	1817	0	0	-8026
95+50	9550.00	50.00	12	263	53	0	0	20	579	100	0	0	5986	14570	1917	0	0	-8585
96+00	9600.00	50.00	47	142	34	0	0	55	375	80	0	0	6041	14945	1997	0	0	-8904
96+50	9650.00	50.00	87	93	17	0	0	124	218	47	0	0	6165	15163	2044	0	0	-8998
97+00	9700.00	50.00	109	102	21	0	0	181	181	35	0	0	6346	15344	2079	0	0	-8999
97+50	9750.00	50.00	130	96	21	0	0	221	184	39	0	0	6567	15528	2118	0	0	-8961
98+00	9800.00	50.00	156	88	19	0	0	265	170	37	0	0	6831	15698	2155	0	0	-8867
98+50	9850.00	50.00	176	68	14	0	0	307	145	31	0	0	7139	15843	2186	0	0	-8705
99+00	9900.00	50.00	179	64	12	0	0	329	122	25	0	0	7467	15966	2211	0	0	-8498
99+50	9950.00	50.00	184	68	14	0	0	336	122	24	0	0	7804	16088	2235	0	0	-8284
100+00	10000.00	50.00	209	0	0	0	0	364	63	13	0	0	8168	16151	2248	0	0	-7983
100+50	10050.00	50.00	228	0	0	0	0	404	0	1	0	0	8572	16151	2249	0	0	-7579
101+00	10100.00	50.00	221	0	0	0	0	416	0	1	0	0	8988	16151	2250	0	0	-7163
101+50	10150.00	50.00	225	50	0	0	0	413	46	1	0	0	9401	16197	2250	0	0	-6796
102+00	10200.00	50.00	148	72	34	0	0	345	114	32	0	0	9747	16311	2282	0	0	-6564
102+50	10250.00	50.00	93	95	55	0	0	223	155	83	0	0	9970	16466	2365	0	0	-6496
103+00	10300.00	50.00	51	113	59	0	0	133	192	106	0	0	10103	16658	2471	0	0	-6555
103+50	10350.00	50.00	48	120	61	0	0	91	215	111	0	0	10194	16873	2583	0	0	-6679
104+00	10400.00	50.00	24	126	60	0	0	67	228	111	0	0	10261	17101	2694	0	0	-6840
104+50	10450.00	50.00	8	157	55	0	0	30	262	106	0	0	10290	17363	2800	0	0	-7073
105+00	10500.00	50.00	27	146	52	0	0	32	280	99	0	0	10322	17643	2899	0	0	-7321
105+50	10550.00	50.00	5	148	51	0	0	30	272	96	0	0	10352	17915	2994	0	0	-7563
106+00	10600.00	50.00	20	105	43	0	0	23	234	87	0	0	10375	18150	3081	0	0	-7775
106+50	10650.00	50.00	50	84	26	0	0	64	175	64	0	0	10439	18324	3146	0	0	-7885
107+00	10700.00	50.00	130	32	6	0	0	167	107	30	0	0	10606	18432	3176	0	0	-7826
107+50	10750.00	50.00	76	52	12	0	0	191	77	16	0	0	10797	18509	3192	0	0	-7712
108+00	10800.00	50.00	120	32	2	0	0	181	78	13	0	0	10978	18587	3205	0	0	-7609
108+50	10850.00	50.00	152	19	0	0	0	252	47	2	0	0	11230	18634	3207	0	0	-7404
109+00	10900.00	50.00	125	23	3	0	0	257	39	3	0	0	11486	18673	3210	0	0	-7186
109+50	10950.00	50.00	98	44	2	0	0	206	62	4	0	0	11693	18735	3215	0	0	-7043
110+00	11000.00	50.00	105	32	1	0	0	187	71	3	0	0	11880	18806	3217	0	0	-6926
110+50	11050.00	50.00	106	27	2	0	0	195	55	3	0	0	12075	18861	3220	0	0	-6786
111+00	11100.00	50.00	79	49	10	0	0	171	71	11	0	0	12247	18932	3232	0	0	-6685
111+50	11150.00	50.00	101	43	18	0	0	167	85	25	0	0	12413	19017	3257	0	0	-6603
112+00	11200.00	50.00	101	31	2	0	0	187	69	18	0	0	12600	19085	3275	0	0	-6485

PROJECT ID 2704-09-70
DIVISION 2B - Braun Road WB

STATION	Real Station	Distance	AREA (SF)					Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate
			Cut	Fill	Topsoil Removal	EBS (In Cross Sections)	Excavation Marsh (In Cross Sections)	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	
112+50	11250.00	50.00	76	47	11	0	0	163	73	12	0	0	12764	19158	3287	0	0	-6394
113+00	11300.00	50.00	80	46	11	0	0	144	86	20	0	0	12908	19244	3308	0	0	-6337
113+50	11350.00	50.00	84	40	10	0	0	151	79	19	0	0	13059	19324	3327	0	0	-6265
114+00	11400.00	50.00	88	39	25	0	0	159	73	33	0	0	13217	19396	3360	0	0	-6179
114+50	11450.00	50.00	62	58	21	0	0	138	89	42	0	0	13356	19486	3402	0	0	-6130
115+00	11500.00	50.00	60	64	19	0	0	112	113	36	0	0	13468	19599	3438	0	0	-6131
115+50	11550.00	50.00	116	27	0	0	0	163	85	18	0	0	13631	19684	3456	0	0	-6053
116+00	11600.00	50.00	112	28	9	0	0	211	51	8	0	0	13842	19735	3464	0	0	-5893
116+50	11650.00	50.00	42	90	28	0	0	143	109	35	0	0	13985	19844	3499	0	0	-5860
117+00	11700.00	50.00	30	95	35	0	0	67	171	59	0	0	14052	20015	3557	0	0	-5964
117+50	11750.00	50.00	39	85	29	0	0	63	167	60	0	0	14115	20183	3617	0	0	-6068
118+00	11800.00	50.00	54	72	26	0	0	86	145	52	0	0	14201	20328	3668	0	0	-6127
118+50	11850.00	50.00	75	73	27	0	0	120	134	49	0	0	14321	20462	3717	0	0	-6141
119+00	11900.00	50.00	108	96	31	0	0	170	156	53	0	0	14491	20619	3771	0	0	-6128
119+50	11950.00	50.00	164	99	26	0	0	252	180	53	0	0	14743	20798	3824	0	0	-6056
120+00	12000.00	50.00	193	79	14	0	0	330	165	37	0	0	15073	20963	3861	0	0	-5890
120+50	12050.00	50.00	214	51	9	0	0	376	121	21	0	0	15449	21084	3882	0	0	-5635
121+00	12100.00	50.00	250	25	0	0	0	430	70	8	0	0	15879	21155	3890	0	0	-5276
121+50	12150.00	50.00	347	0	0	0	0	553	23	0	0	0	16432	21178	3890	0	0	-4746
122+00	12200.00	50.00	349	0	0	0	0	644	0	0	0	0	17076	21178	3890	0	0	-4101
122+50	12250.00	50.00	353	0	0	0	0	650	0	0	0	0	17726	21178	3890	0	0	-3452
123+00	12300.00	50.00	291	1	0	0	0	596	1	0	0	0	18322	21179	3890	0	0	-2857
123+50	12350.00	50.00	276	0	0	0	0	525	1	0	0	0	18847	21180	3890	0	0	-2333
124+00	12400.00	50.00	314	0	0	0	0	547	0	0	0	0	19394	21180	3890	0	0	-1787
124+50	12450.00	50.00	364	0	0	0	0	628	0	0	0	0	20021	21180	3890	0	0	-1159
125+00	12500.00	50.00	264	0	0	0	0	582	0	0	0	0	20603	21180	3890	0	0	-577
125+50	12550.00	50.00	162	6	0	0	0	395	6	0	0	0	20998	21186	3890	0	0	-188
126+00	12600.00	50.00	127	12	1	0	0	268	17	1	0	0	21266	21202	3891	0	0	64
126+50	12650.00	50.00	124	13	0	0	0	233	23	1	0	0	21499	21225	3892	0	0	274
127+00	12700.00	50.00	133	12	0	0	0	238	23	0	0	0	21737	21248	3893	0	0	489
127+50	12750.00	50.00	221	5	0	0	0	328	16	0	0	0	22064	21263	3893	0	0	801
128+00	12800.00	50.00	204	0	0	0	0	393	5	0	0	0	22458	21268	3893	0	0	1190
128+50	12850.00	50.00	222	0	0	0	0	394	0	0	0	0	22852	21268	3893	0	0	1584
129+00	12900.00	50.00	96	26	4	0	0	295	24	3	0	0	23147	21292	3896	0	0	1856
129+50	12950.00	50.00	58	56	23	0	0	143	76	25	0	0	23290	21368	3921	0	0	1922
130+00	13000.00	50.00	100	47	29	0	0	146	96	48	0	0	23436	21464	3969	0	0	1973
130+50	13050.00	50.00	52	104	35	0	0	141	140	59	0	0	23577	21603	4028	0	0	1974
131+00	13100.00	50.00	37	116	39	0	0	83	203	69	0	0	23660	21807	4098	0	0	1853
131+50	13150.00	50.00	40	93	45	0	0	71	193	78	0	0	23731	22000	4176	0	0	1731
132+00	13200.00	50.00	41	81	45	0	0	75	161	84	0	0	23806	22161	4259	0	0	1645

PROJECT ID 2704-09-70
DIVISION 2B - Braun Road WB

STATION		Real Station	Distance	AREA (SF) Cut	Fill	Topsoil Removal	EBS (In Cross Sections)	Excavation Marsh (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	Cumulative Vol (CY) Cut	Fill	Topsoil Removal	EBS	Excavation Marsh	Mass Ordinate
132+50		13250.00	50.00	20	128	46	0	0	57	193	84	0	0	23863	22354	4343	0	0	1509
133+00		13300.00	50.00	28	133	43	0	0	44	241	83	0	0	23908	22596	4426	0	0	1312
133+50		13350.00	50.00	38	121	38	0	0	61	235	76	0	0	23968	22831	4502	0	0	1138
134+00		13400.00	50.00	81	63	27	0	0	110	170	61	0	0	24078	23001	4562	0	0	1077
134+50		13450.00	50.00	84	75	16	0	0	153	128	40	0	0	24231	23129	4603	0	0	1102
135+00		13500.00	50.00	103	51	8	0	0	174	117	22	0	0	24405	23246	4625	0	0	1159
135+50		13550.00	50.00	138	27	1	0	0	223	73	8	0	0	24628	23319	4633	0	0	1310
136+00		13600.00	50.00	156	21	1	0	0	272	45	2	0	0	24900	23364	4635	0	0	1536
136+50		13650.00	50.00	213	22	2	0	0	341	41	3	0	0	25242	23404	4638	0	0	1837
137+00		13700.00	50.00	118	31	3	0	0	307	49	4	0	0	25549	23453	4643	0	0	2095
137+50		13750.00	50.00	71	56	15	0	0	176	80	16	0	0	25724	23533	4659	0	0	2191
138+00		13800.00	50.00	44	79	28	0	0	107	124	39	0	0	25831	23657	4698	0	0	2174
138+50		13850.00	50.00	32	80	34	0	0	71	147	57	0	0	25902	23804	4755	0	0	2098
139+00		13900.00	50.00	91	47	12	0	0	115	118	43	0	0	26016	23922	4798	0	0	2094
139+50		13950.00	50.00	141	24	0	0	0	215	66	11	0	0	26231	23988	4809	0	0	2243
140+00		14000.00	50.00	157	10	5	0	0	276	32	5	0	0	26507	24020	4814	0	0	2487
140+50		14050.00	50.00	107	38	30	0	0	244	45	33	0	0	26751	24064	4847	0	0	2687
141+00		14100.00	50.00	65	111	47	0	0	159	138	71	0	0	26910	24202	4918	0	0	2708
141+50		14150.00	50.00	108	64	35	0	0	161	162	76	0	0	27071	24365	4994	0	0	2706
142+00		14200.00	50.00	221	0	0	0	0	305	59	32	0	0	27376	24424	5026	0	0	2952
142+50		14250.00	50.00	199	0	0	0	0	389	0	0	0	0	27765	24424	5026	0	0	3341
143+00		14300.00	50.00	186	0	0	0	0	356	0	0	0	0	28122	24424	5026	0	0	3698
143+50		14350.00	50.00	148	64	33	0	0	309	59	31	0	0	28431	24483	5057	0	0	3947
144+00		14400.00	50.00	116	75	44	0	0	245	129	71	0	0	28675	24612	5128	0	0	4063
144+50		14450.00	50.00	89	95	56	0	0	190	158	93	0	0	28865	24770	5221	0	0	4095
145+00		14500.00	50.00	88	115	57	0	0	163	195	105	0	0	29029	24965	5326	0	0	4064
145+50		14550.00	50.00	72	114	57	0	0	147	212	106	0	0	29176	25177	5432	0	0	3999
146+00		14600.00	50.00	68	86	46	0	0	129	186	95	0	0	29306	25363	5527	0	0	3943
146+50		14650.00	50.00	89	65	23	0	0	146	140	64	0	0	29452	25503	5591	0	0	3949
147+00		14700.00	50.00	163	52	10	0	0	233	108	30	0	0	29685	25611	5621	0	0	4074
147+50		14750.00	50.00	120	44	3	0	0	262	89	12	0	0	29947	25701	5633	0	0	4246
148+00		14800.00	50.00	112	47	6	0	0	215	85	8	0	0	30162	25785	5642	0	0	4376
148+50		14850.00	50.00	100	53	11	0	0	196	92	16	0	0	30358	25877	5658	0	0	4481
149+00		14900.00	50.00	119	68	22	0	0	203	112	31	0	0	30561	25989	5688	0	0	4572
149+50		14950.00	50.00	85	67	25	0	0	189	125	43	0	0	30750	26114	5731	0	0	4636
149+84	BK	14984.00	34.00	74	69	27	0	0	100	85	33	0	0	30850	26199	5764	0	0	4650
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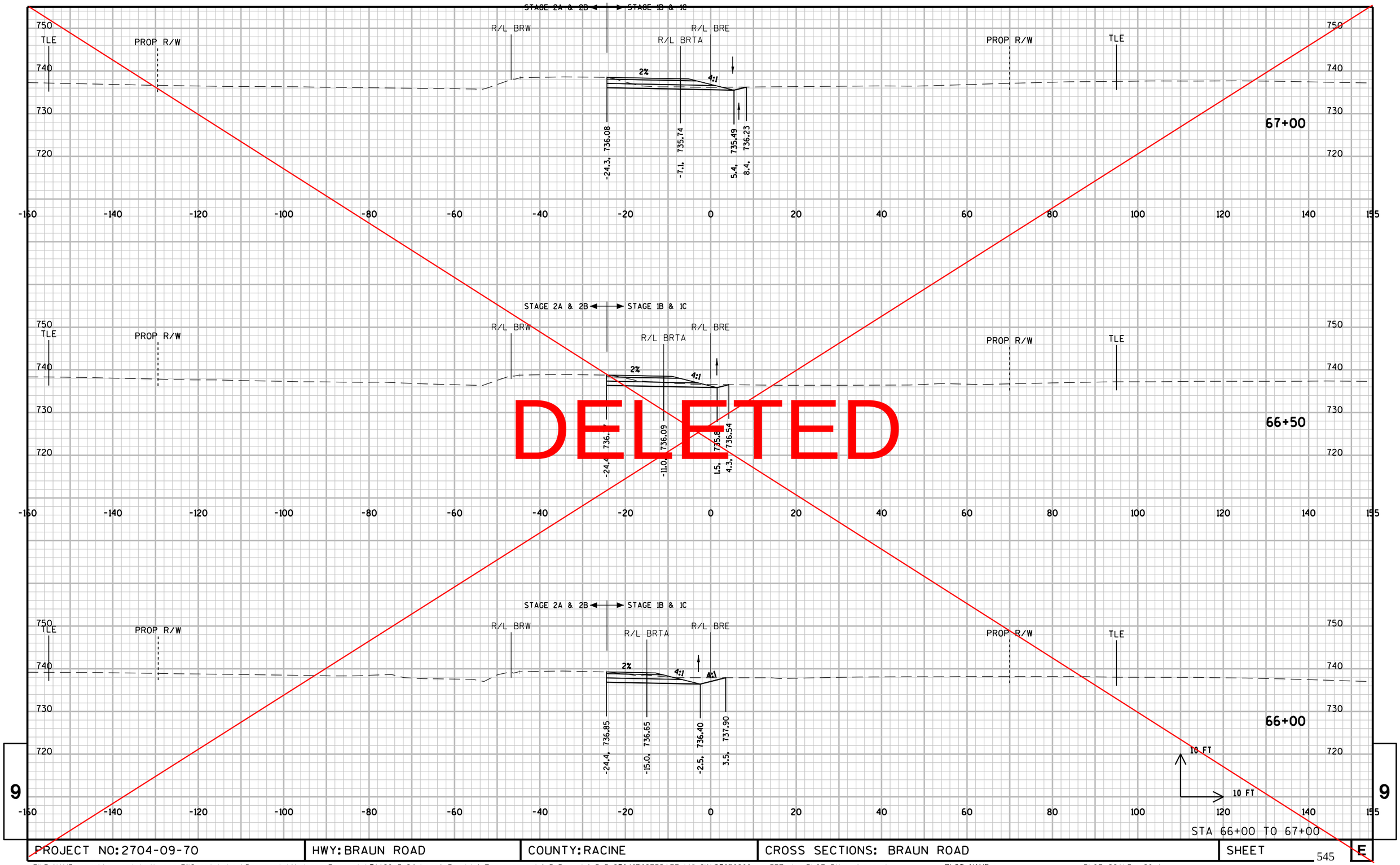
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STA 64+50 TO 65+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBraun\14x26x27040900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



DELETED

9

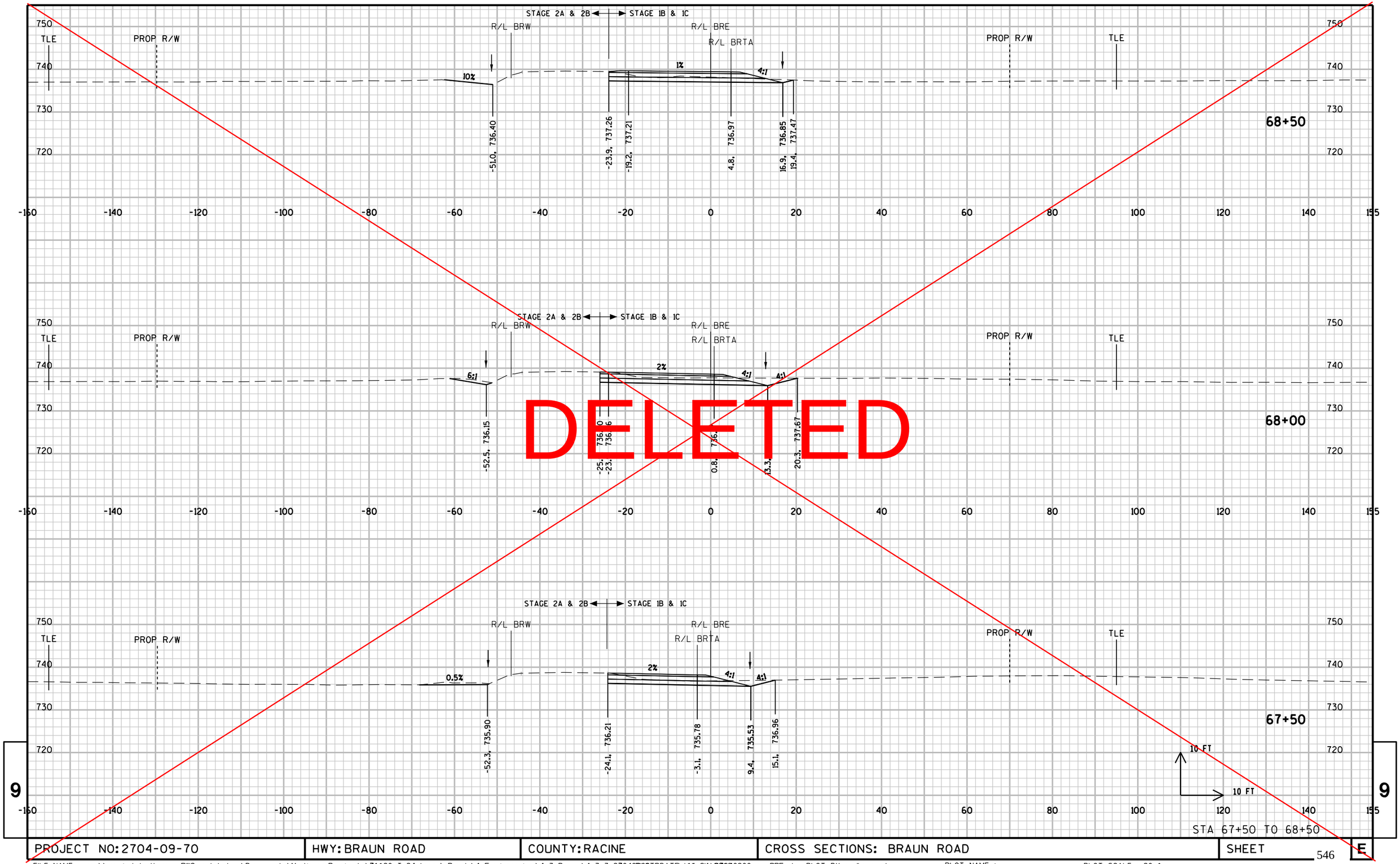
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STA 66+00 TO 67+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\14.26x20\2704090_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



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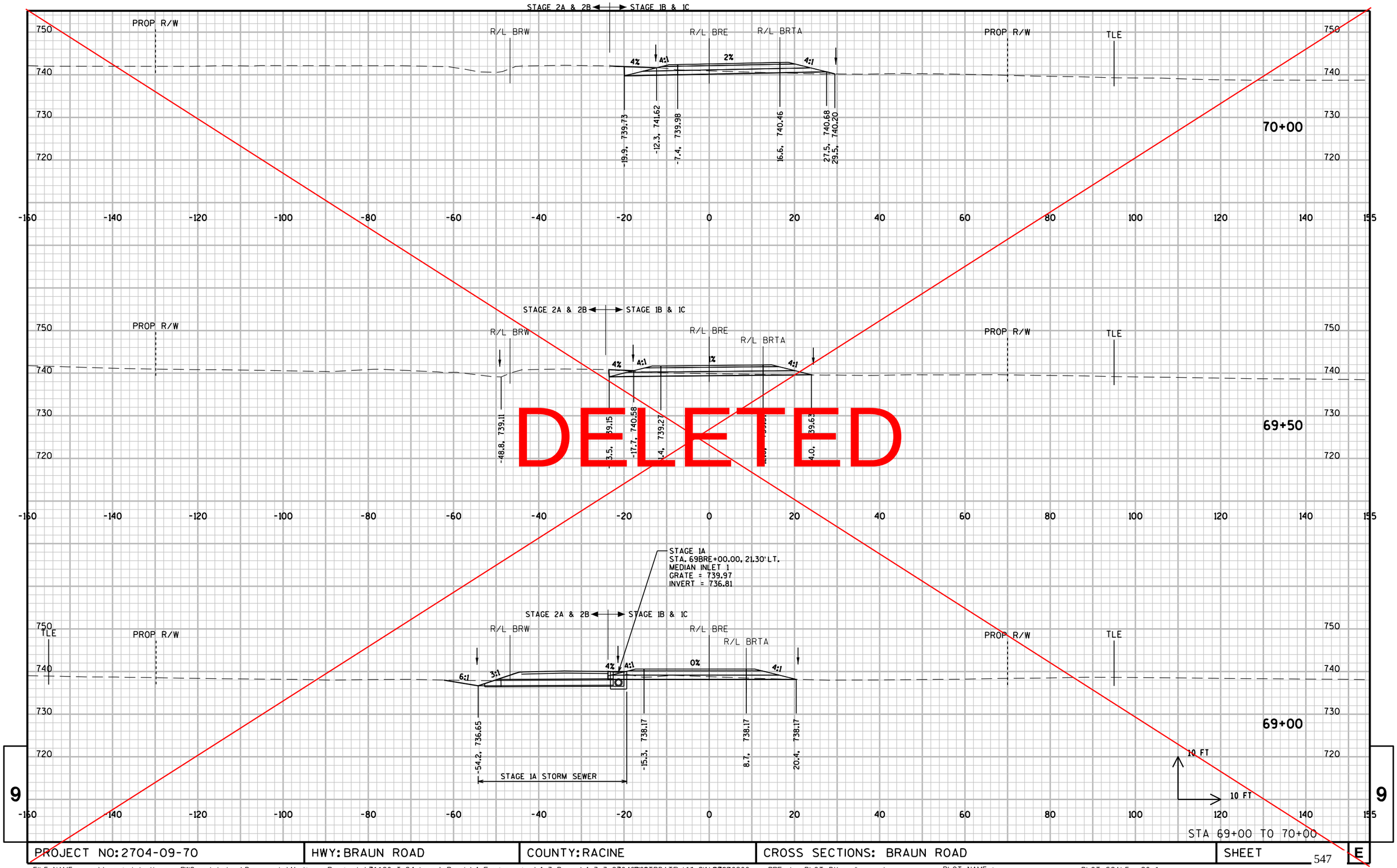
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STA 67+50 TO 68+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\14.26x27040900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

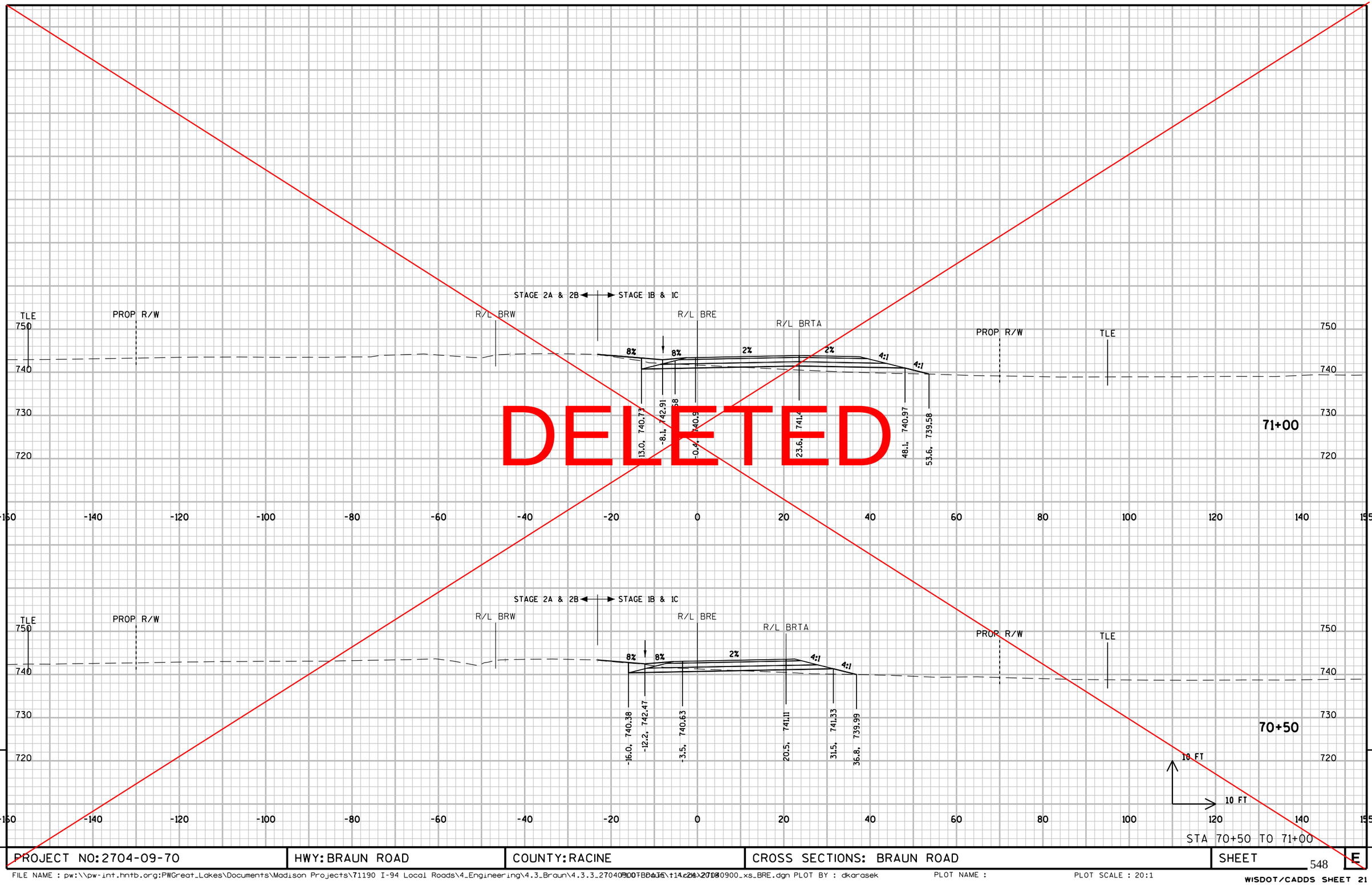
WISDOT/CADDS SHEET 21



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD\15 1426x2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



DELETED

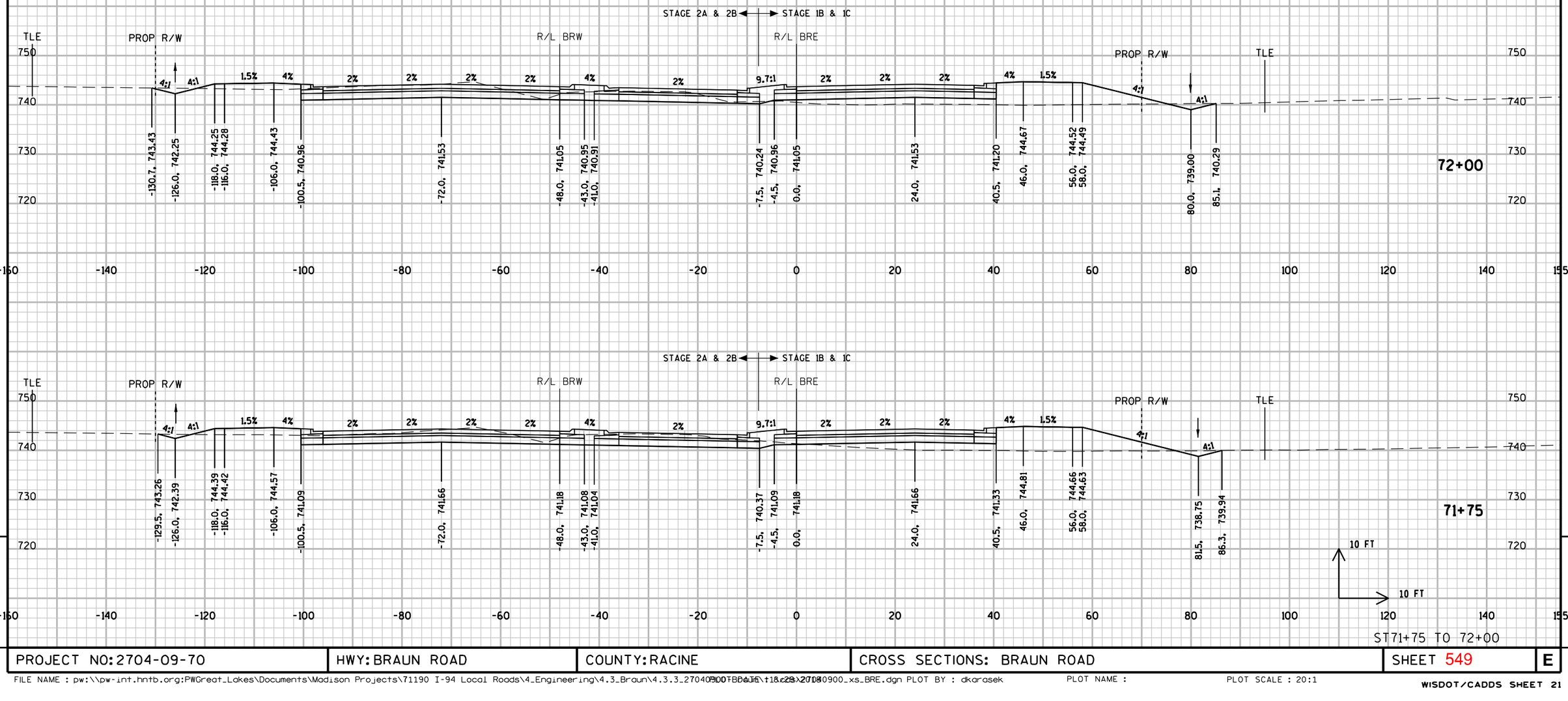
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9

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090070BD01\Plots\14_26x20\2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

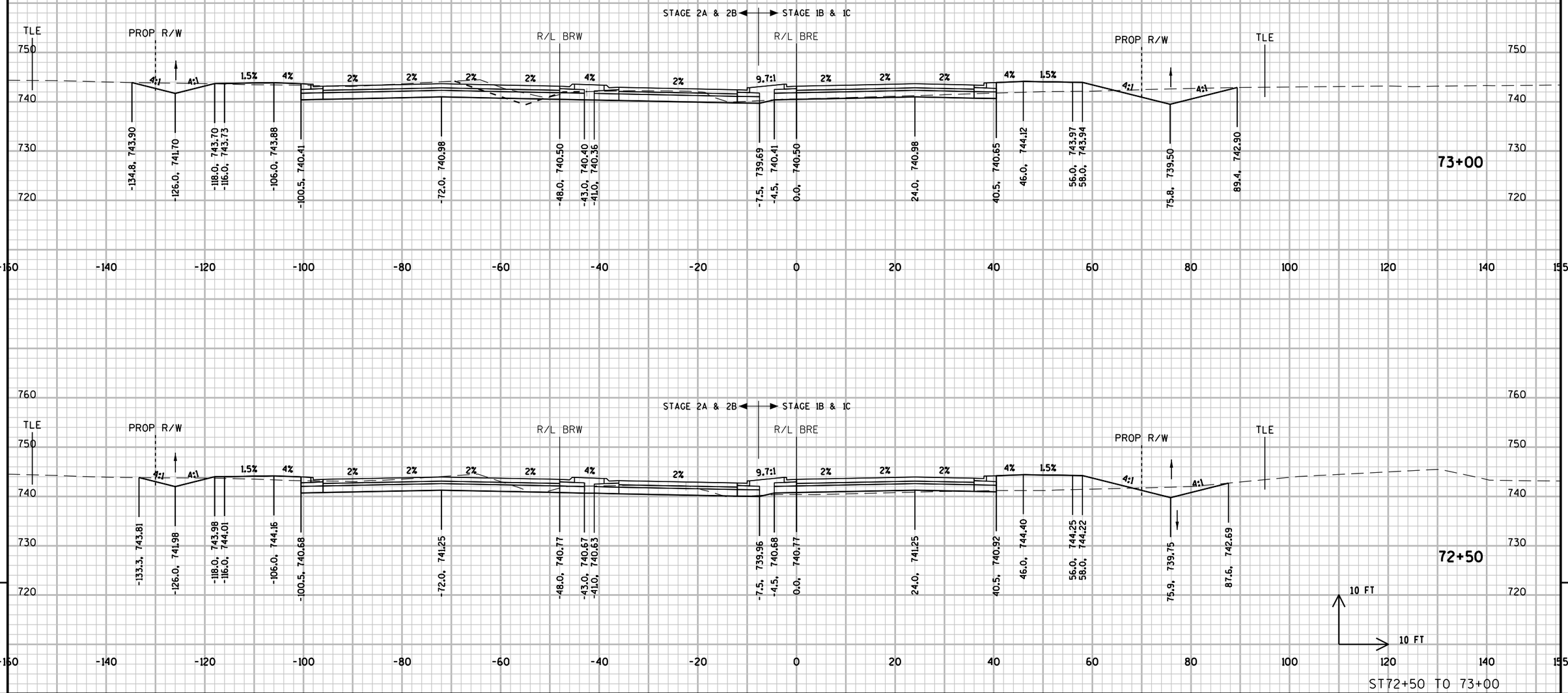
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ST71+75 TO 72+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 549	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\18x28\2704090_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



ST72+50 TO 73+00

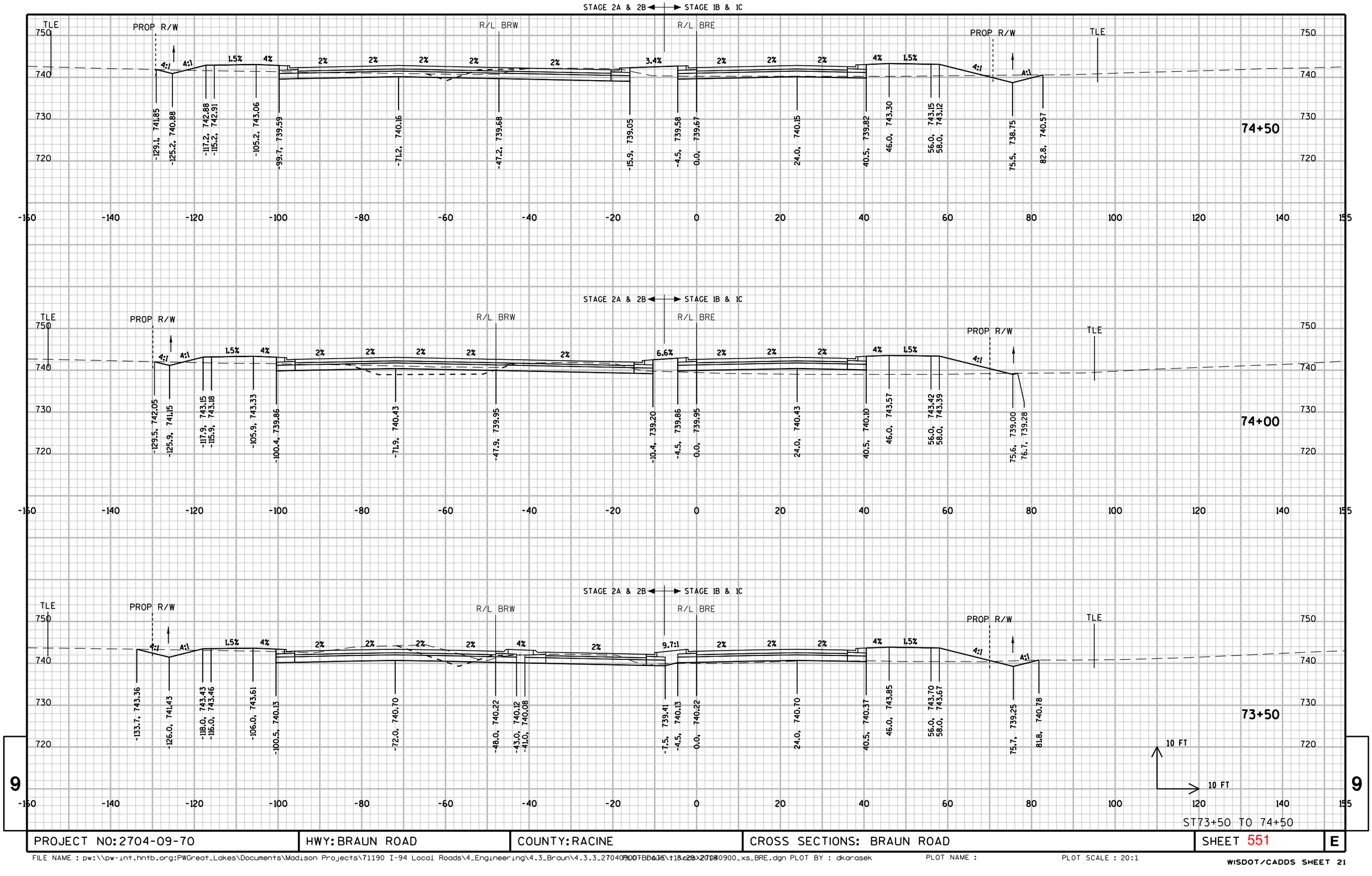
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 550	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN\18x28x2704090_xs_BRE.dgn PLOT BY : dkarasek PLOT DATE : 18 SEP 2008 PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

9

9



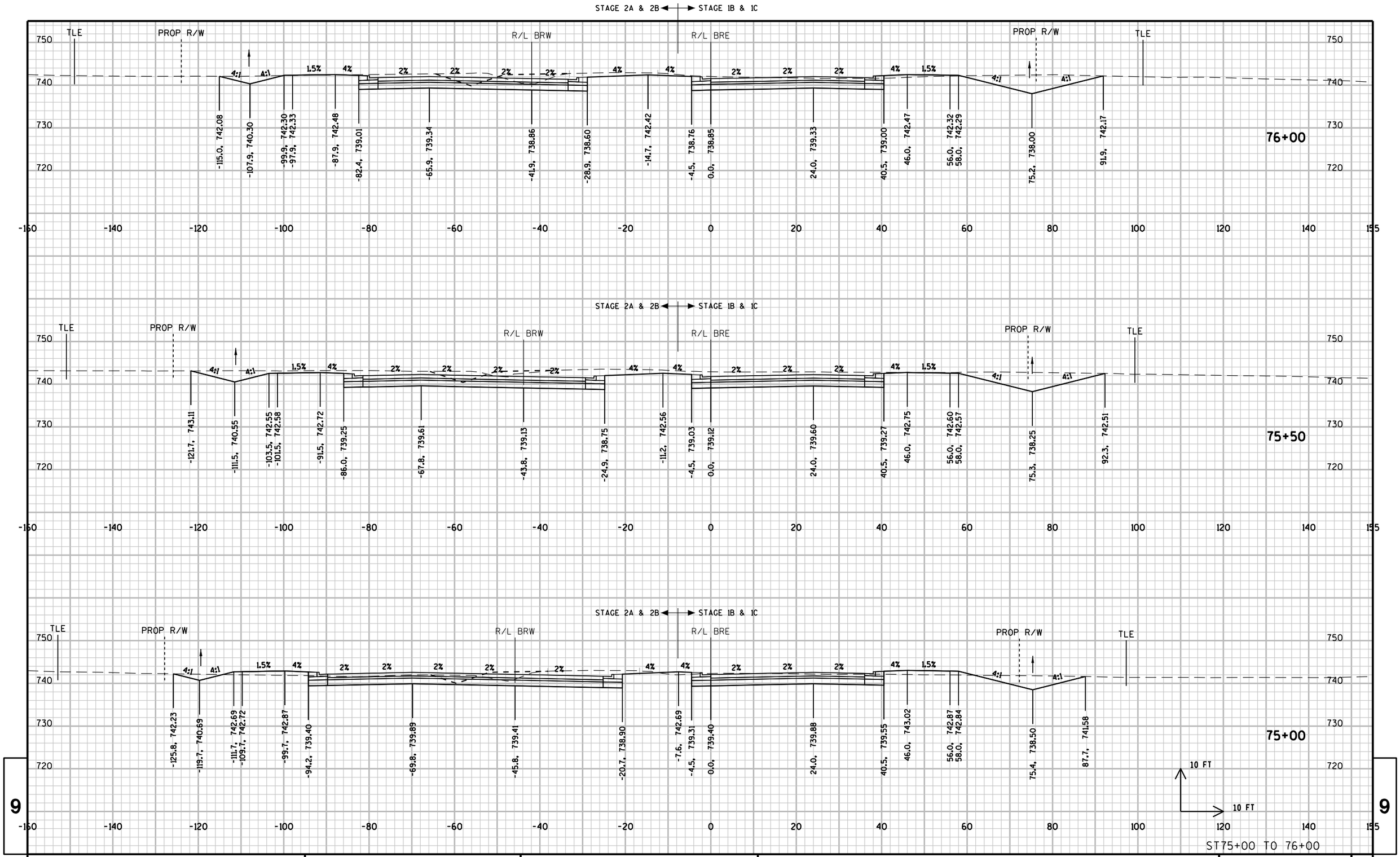
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9

ST73+50 TO 74+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 551	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\18x28\27040900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

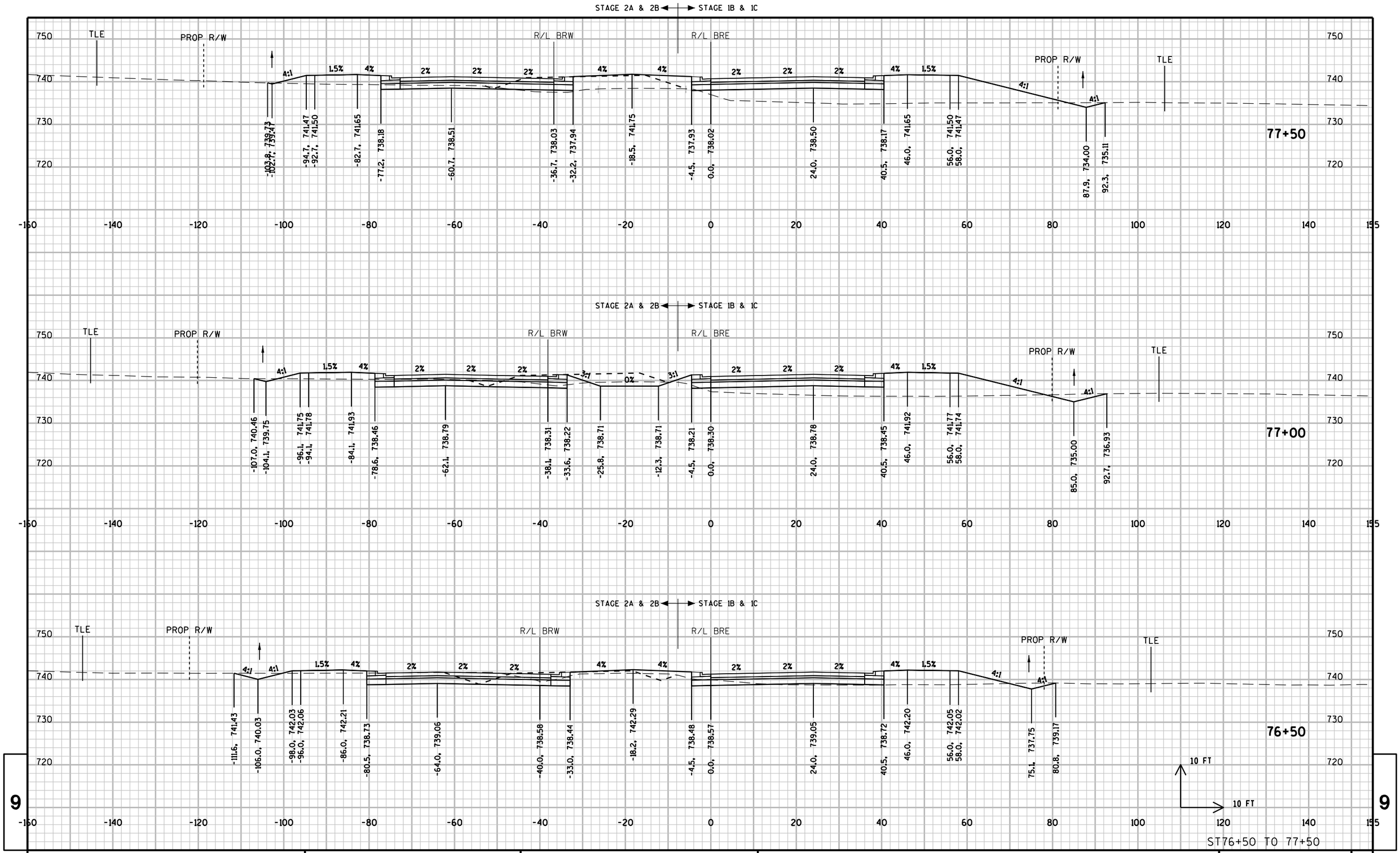


ST75+00 TO 76+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 552	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\18x28\27040900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

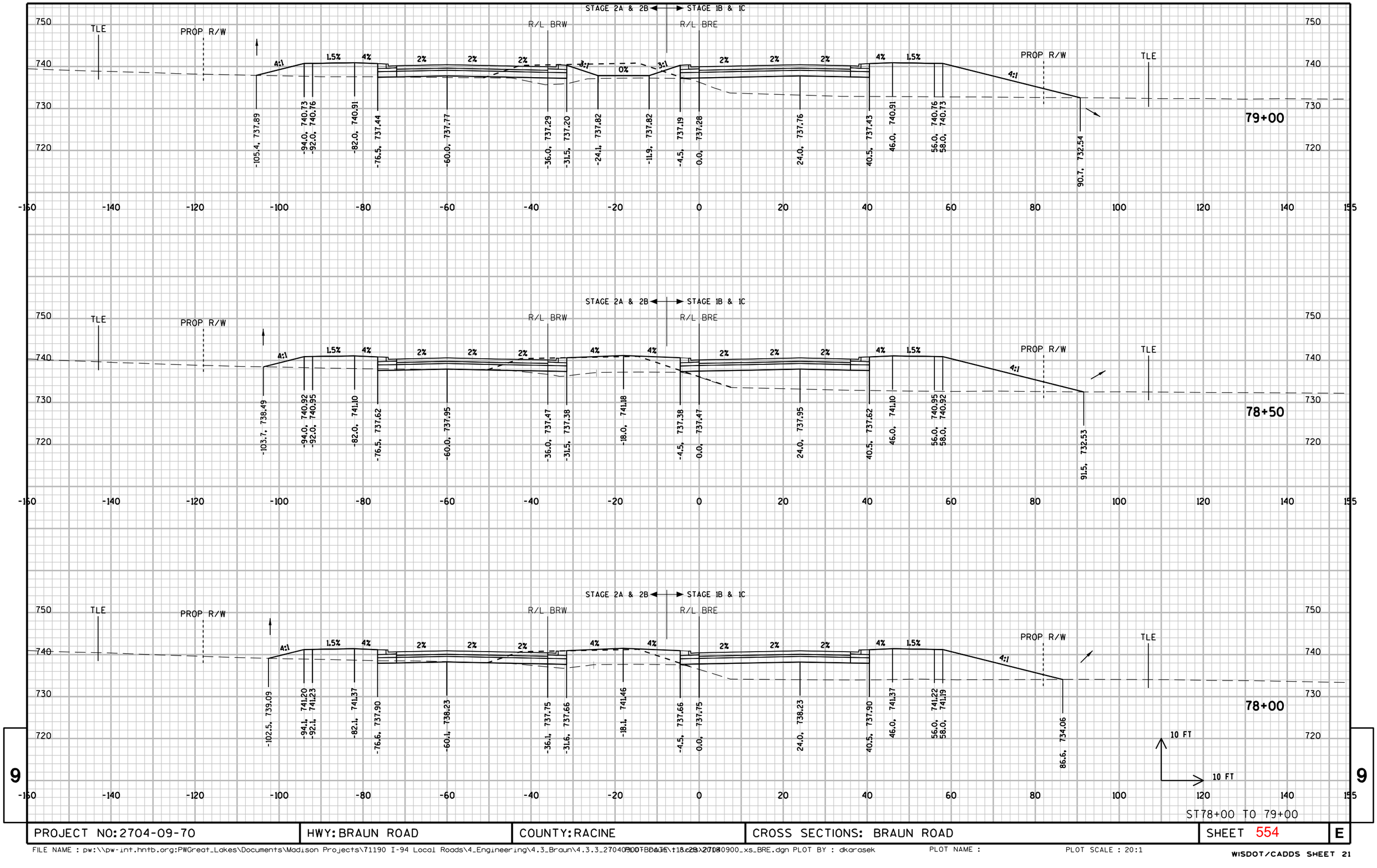
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ST76+50 TO 77+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 553	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN\18x28x2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT DATE: 18-SEP-2018 PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

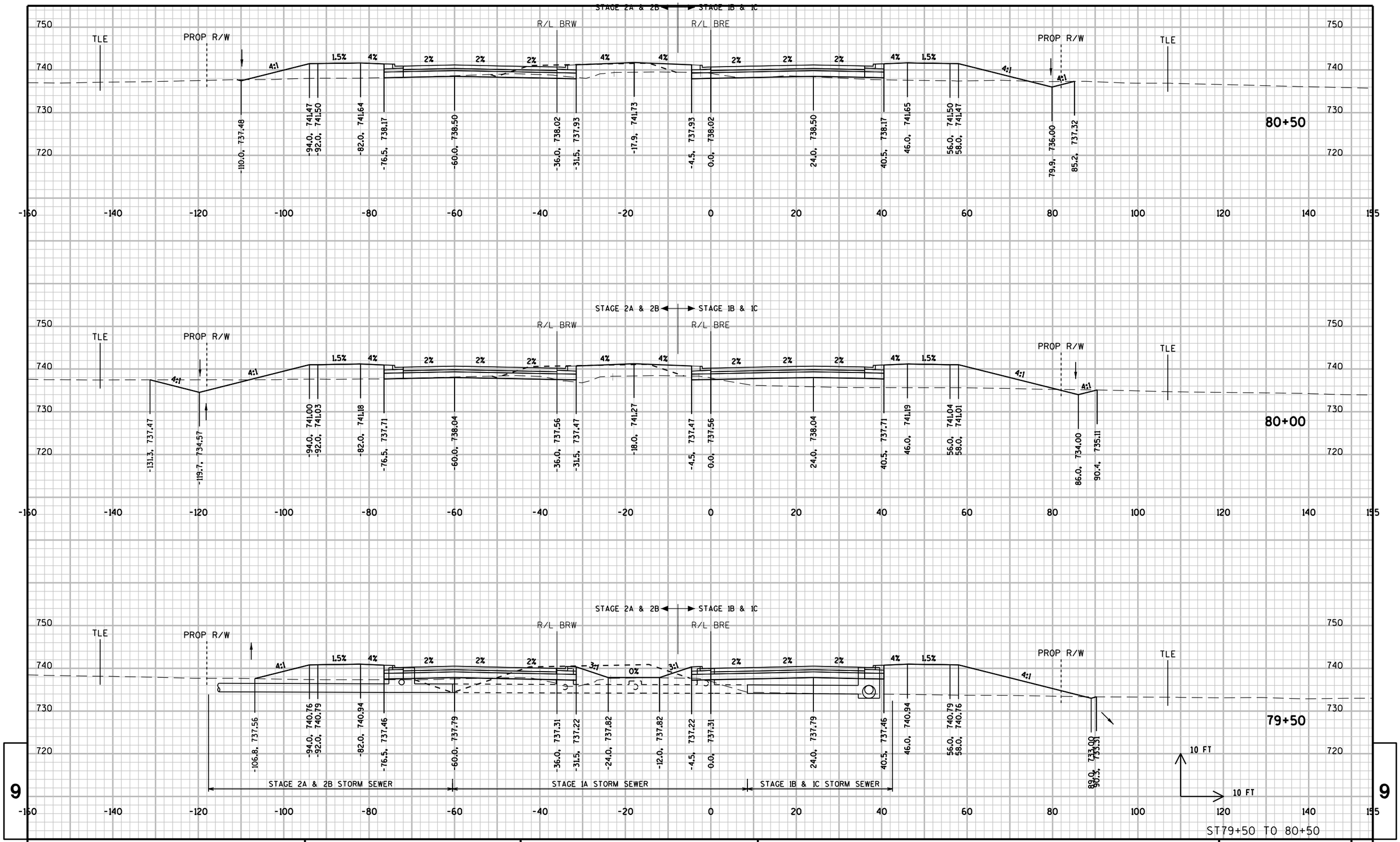
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ST78+00 TO 79+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 554	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN_18_28\2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

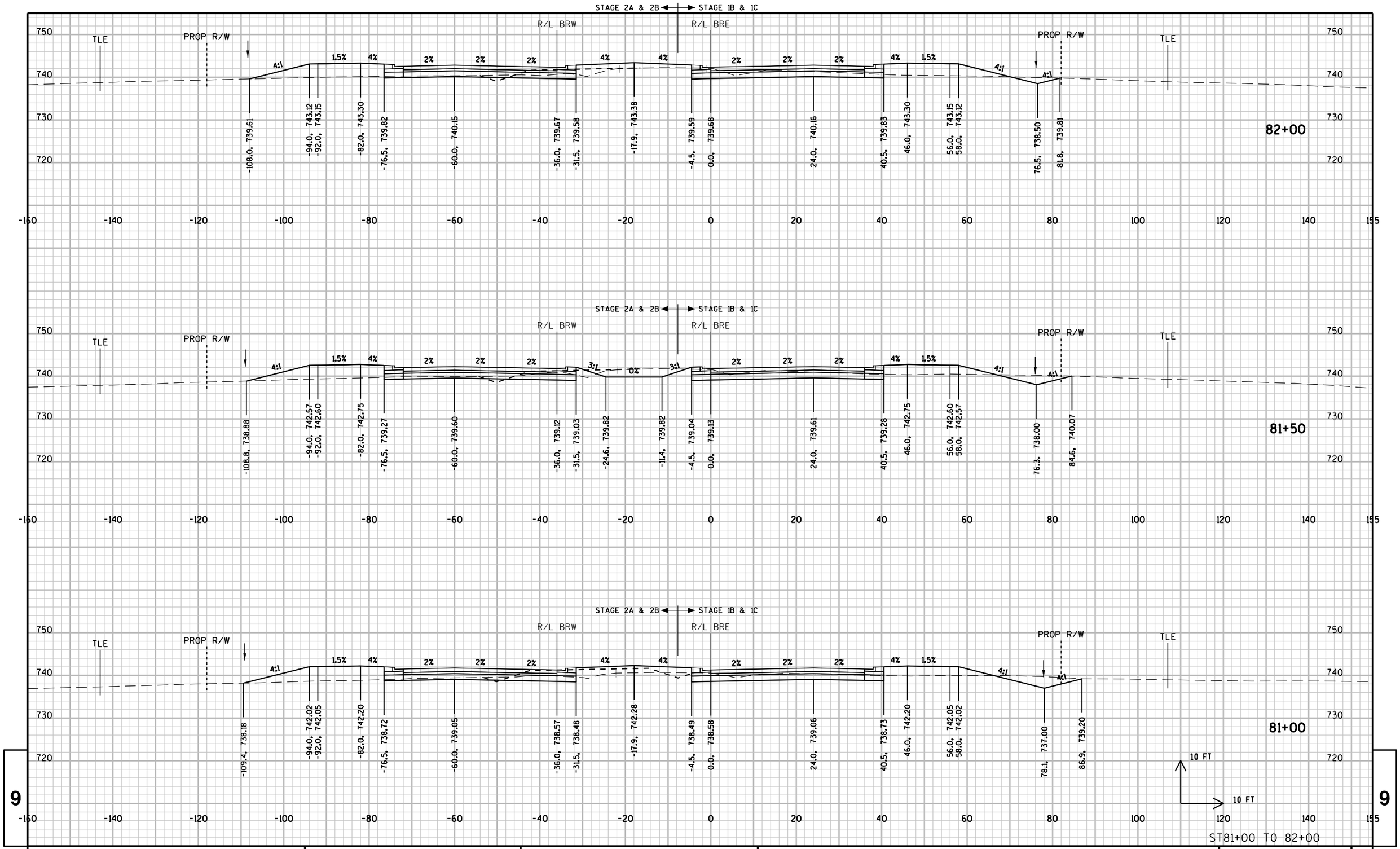


ST79+50 TO 80+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 555	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\18x28\2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



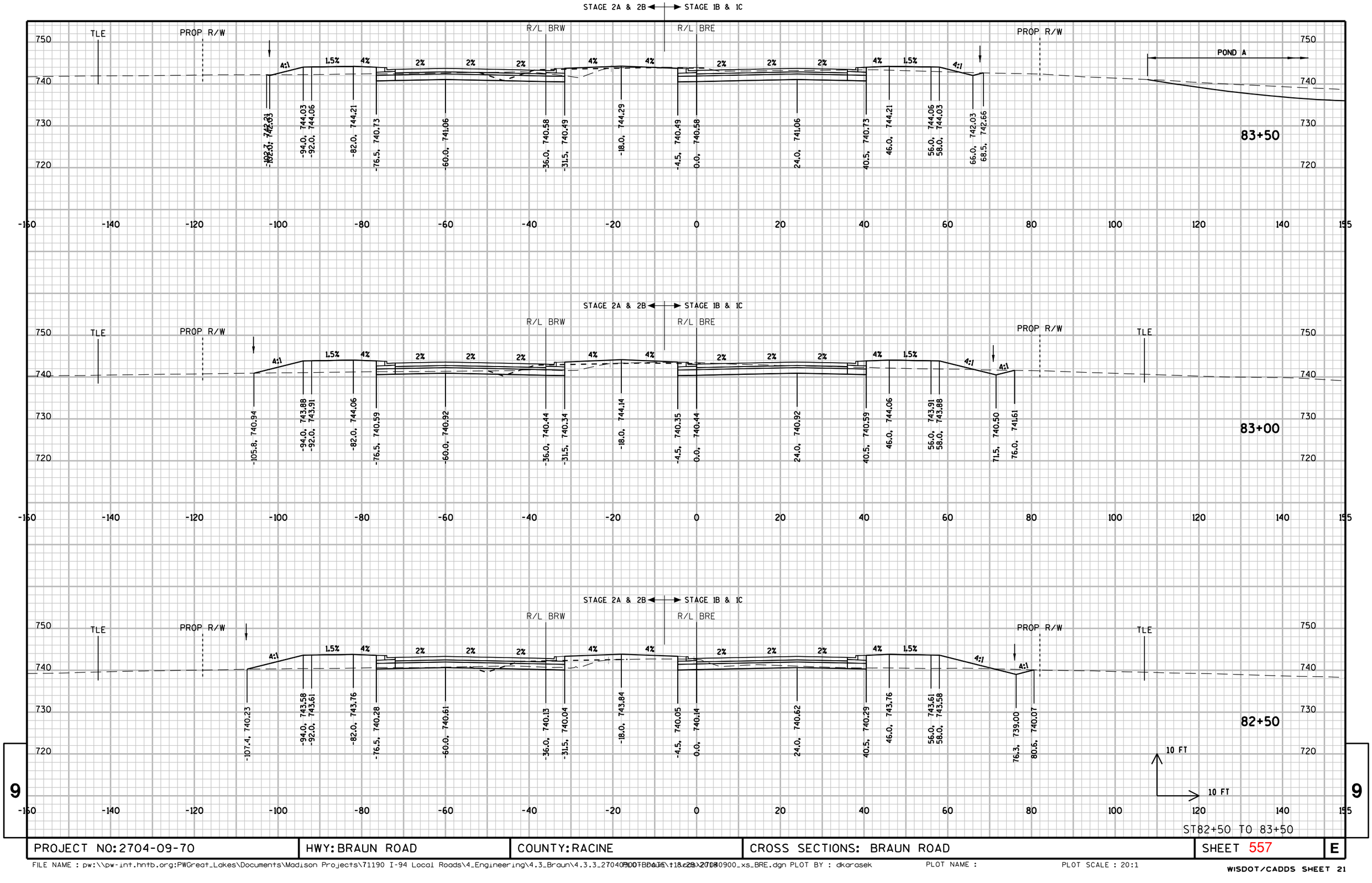
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9

ST81+00 TO 82+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 556	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN\18x28\2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



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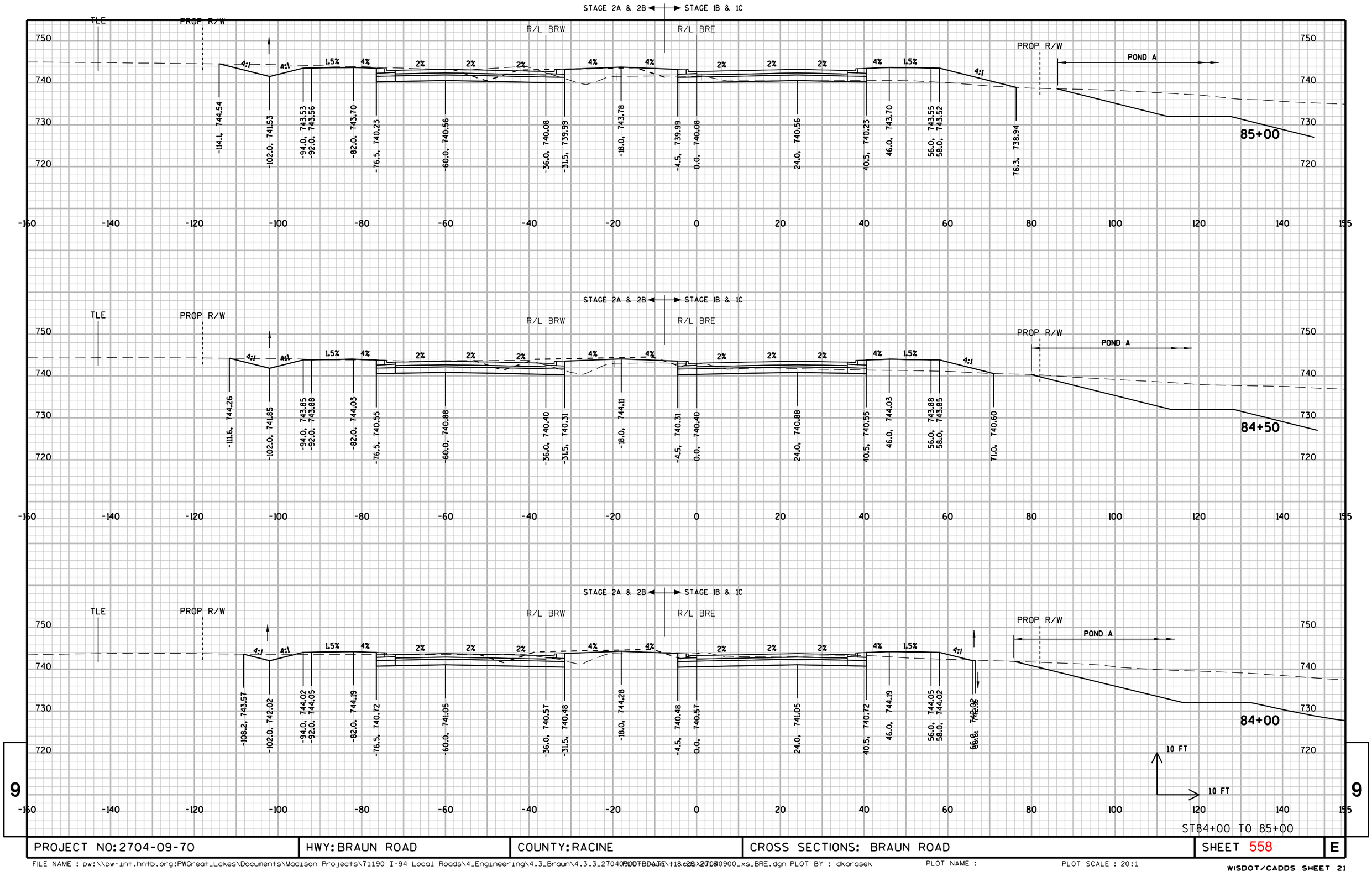
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ST82+50 TO 83+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 557	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD\[illegible]\2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

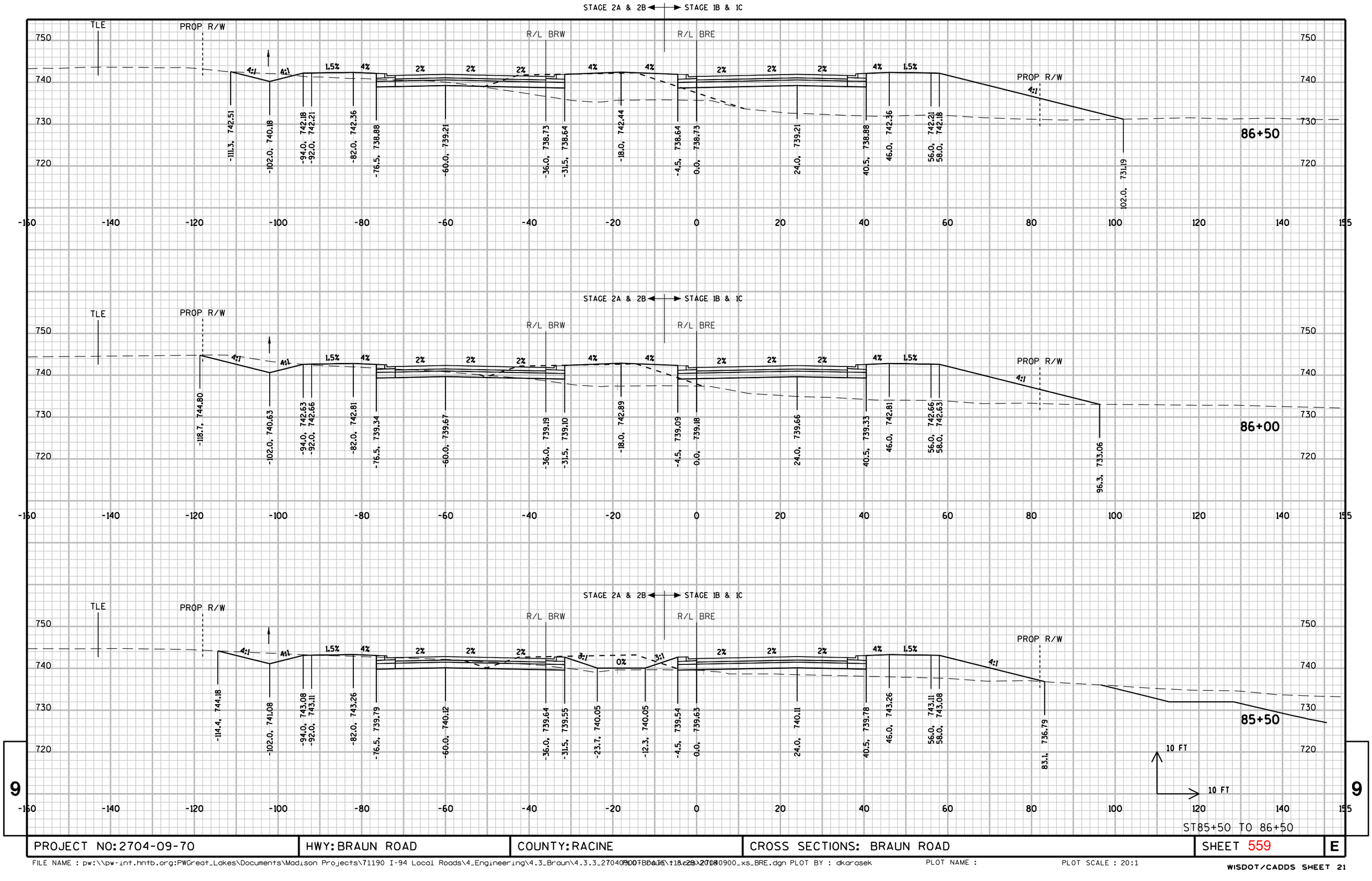


ST84+00 TO 85+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 558	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD15\18x28x2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

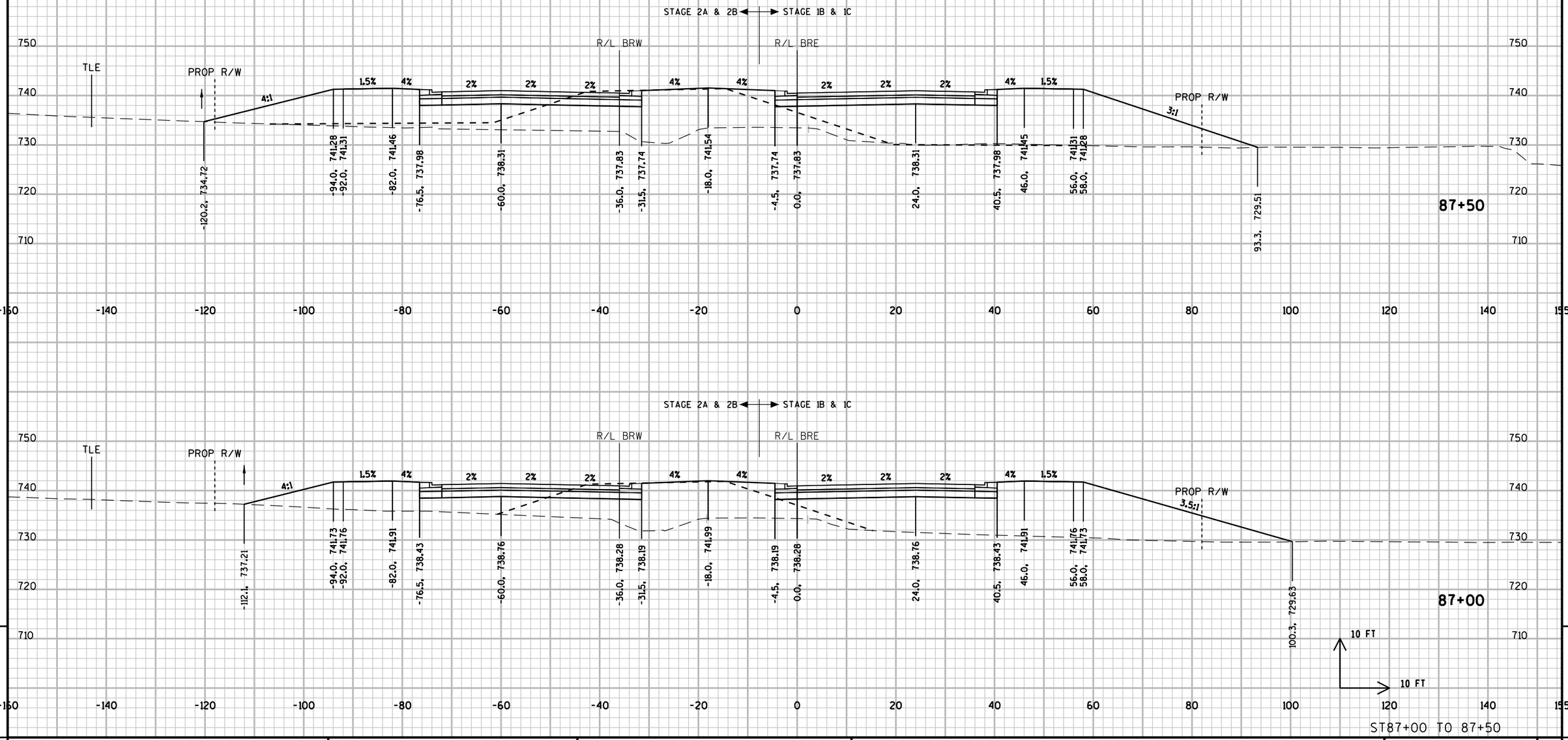
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ST85+50 TO 86+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 559	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\18x28\2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

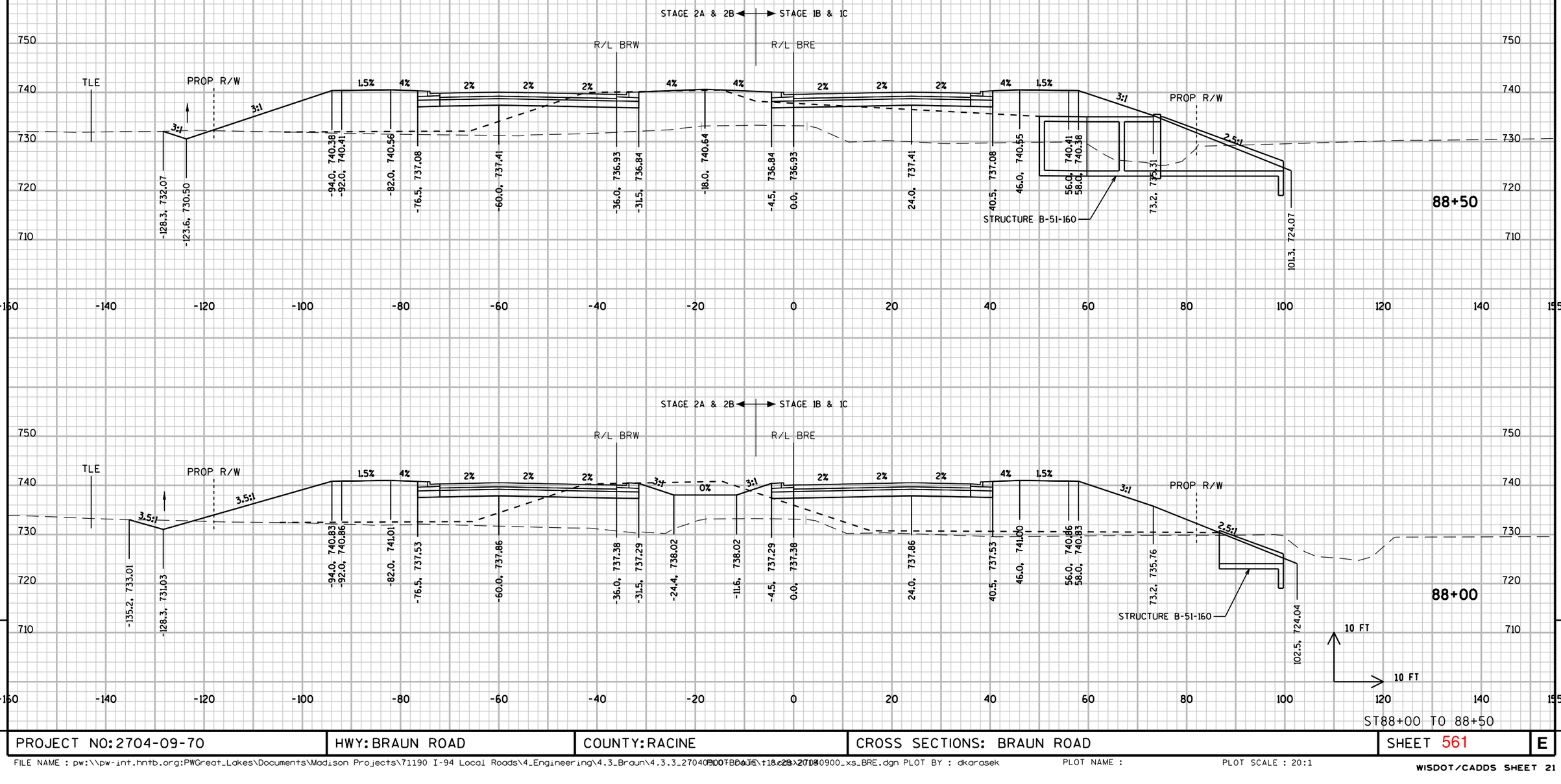


ST87+00 TO 87+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 560	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN\sheets\xs2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT DATE : 18 SEP 2018 PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

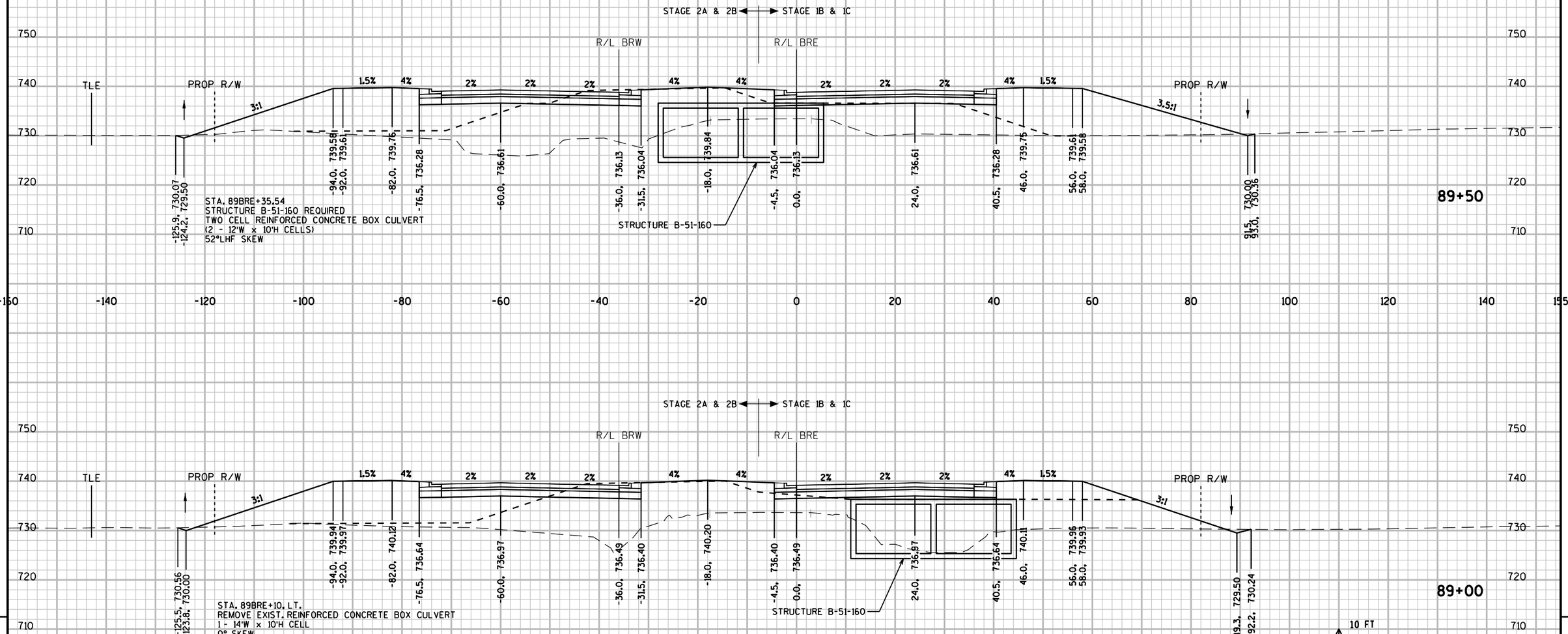
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ST88+00 TO 88+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 561	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN\t18.28x.2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

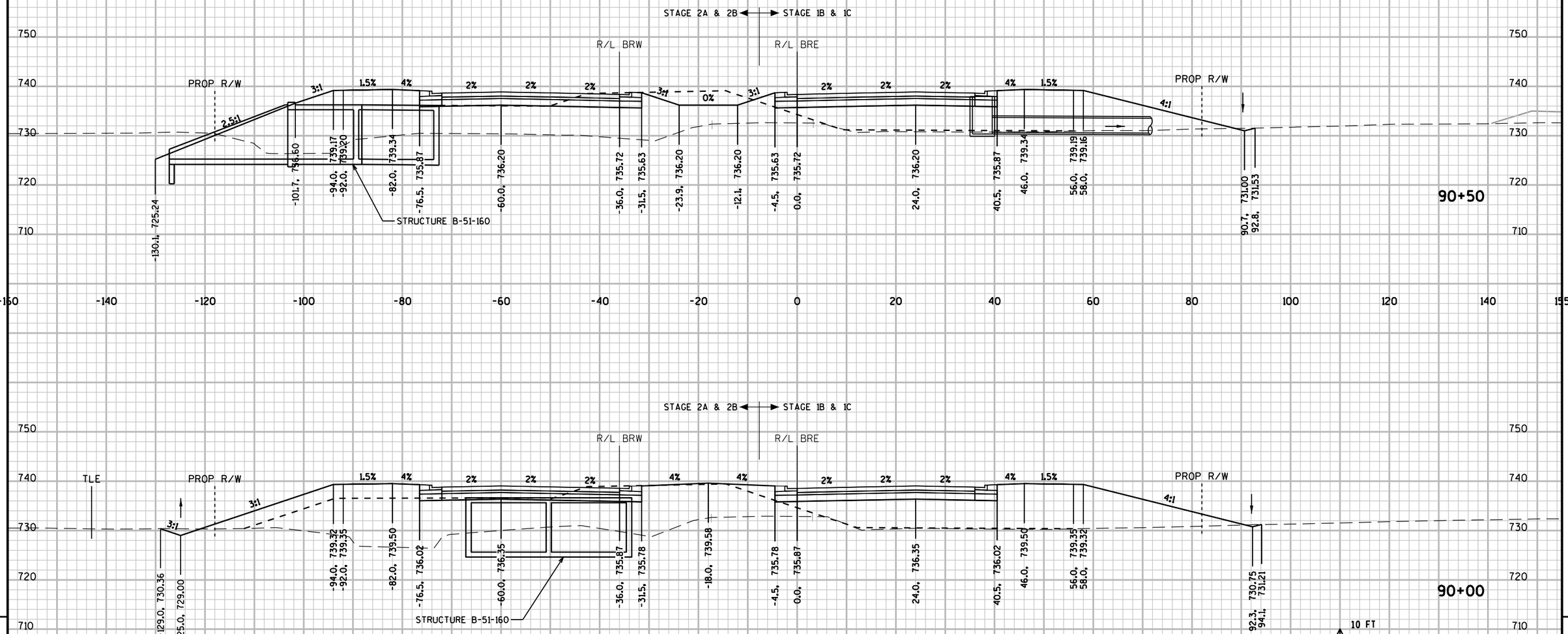


ST89+00 TO 89+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 562	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\t18x28x27040900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



ST90+00 TO 90+50

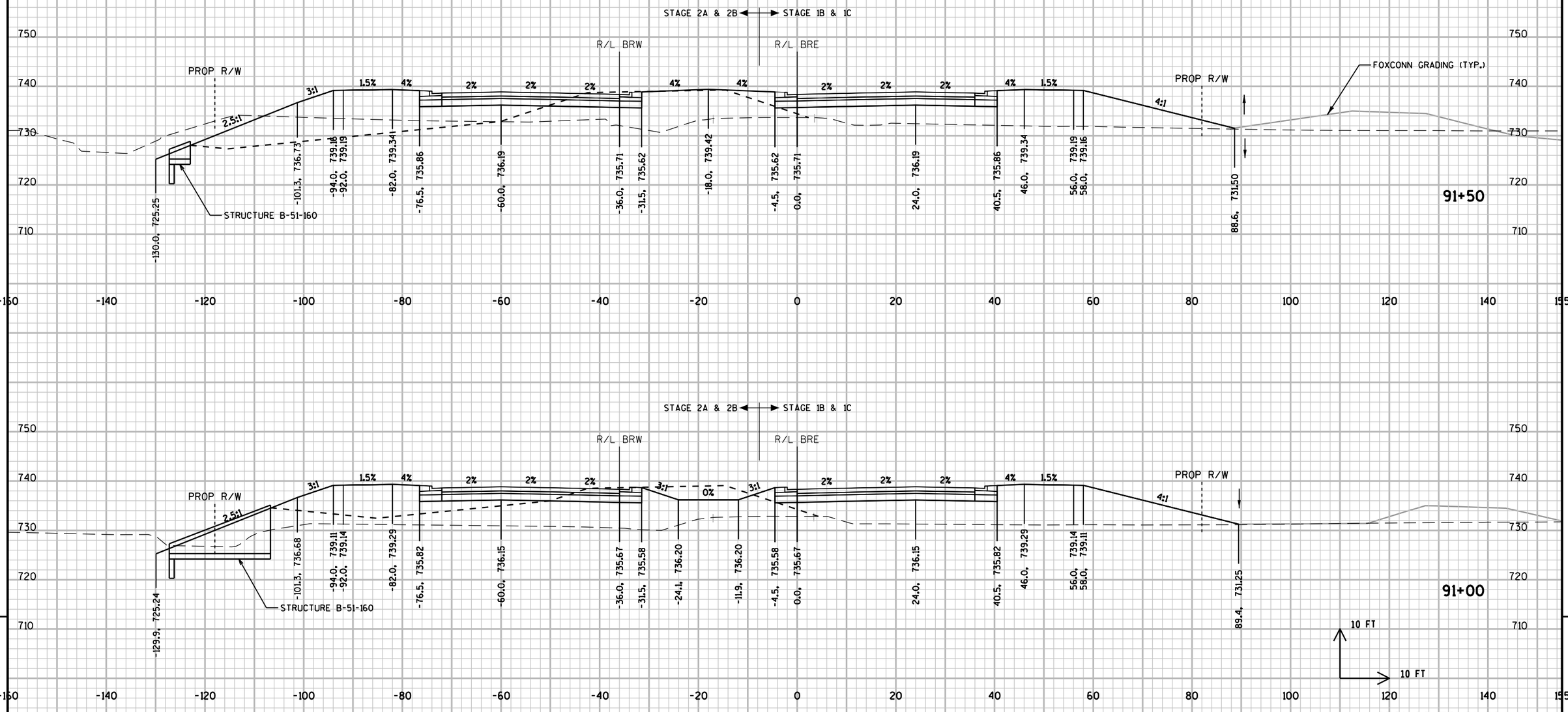
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 563	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dir\18x28x2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT DATE : 18 SEP 2018 PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

9

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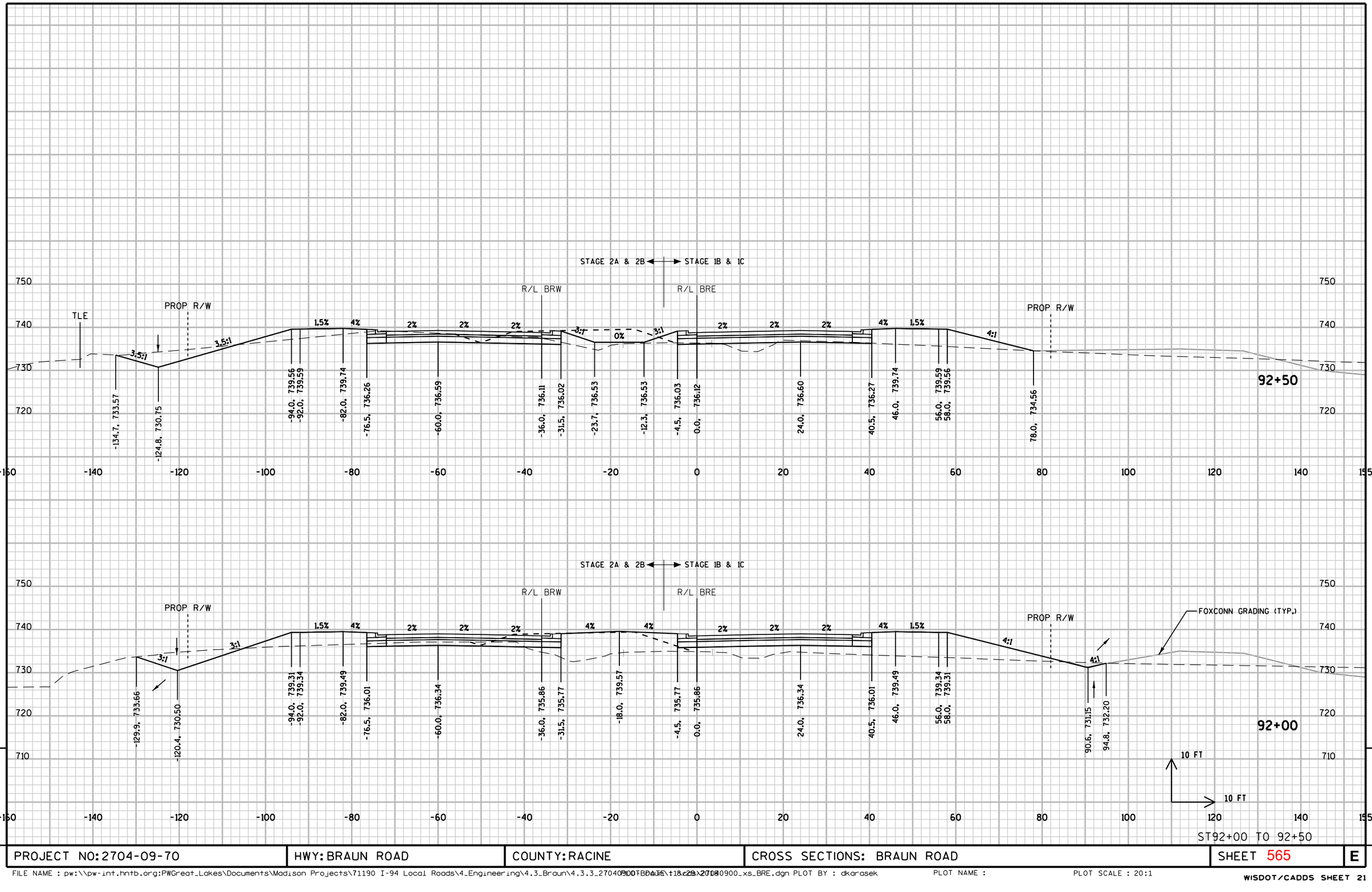


ST91+00 TO 91+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 564	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOT DATE : 18 Sep 2020 PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

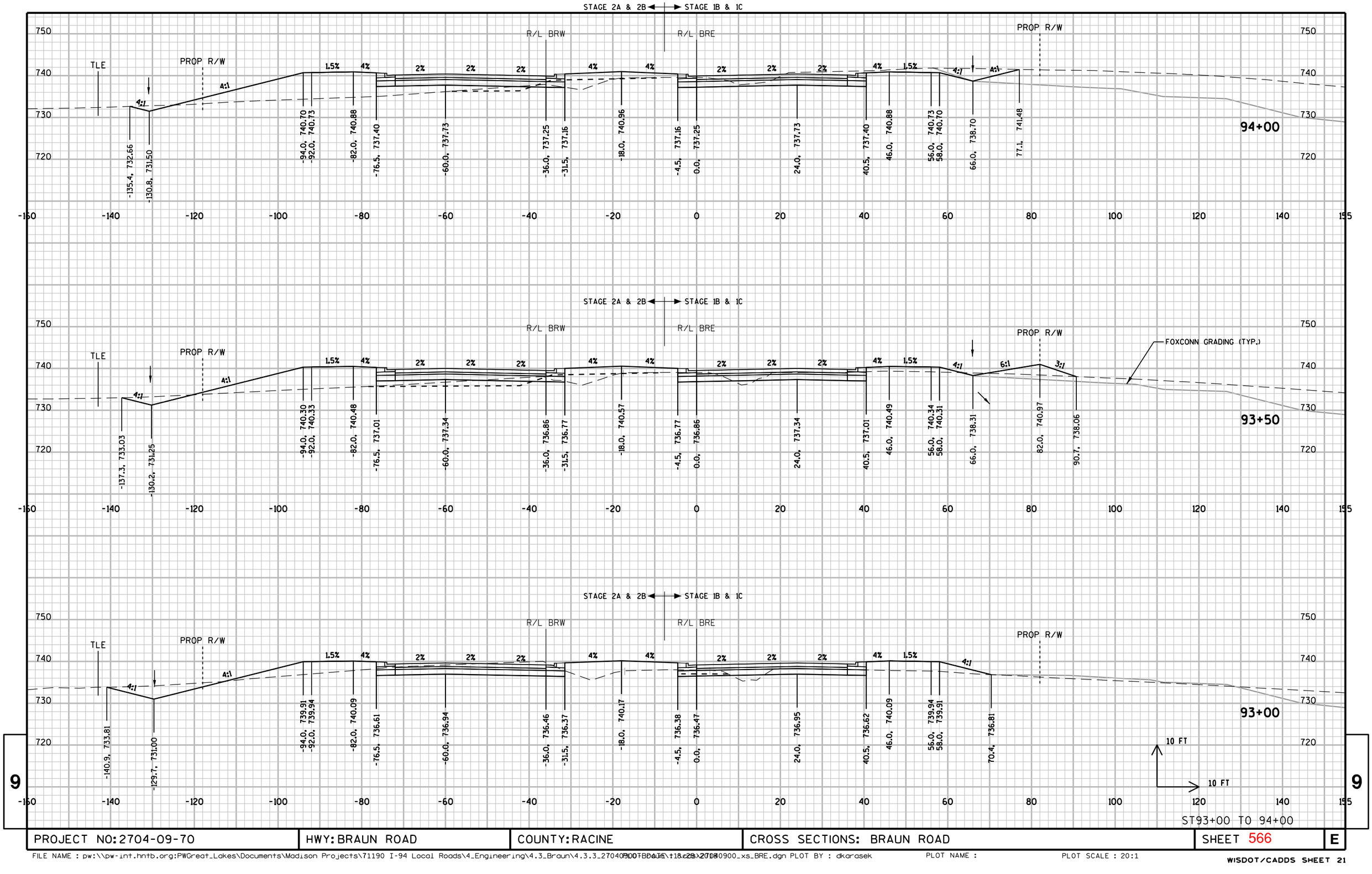
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ST92+00 TO 92+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 565	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\18x28\2704090_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

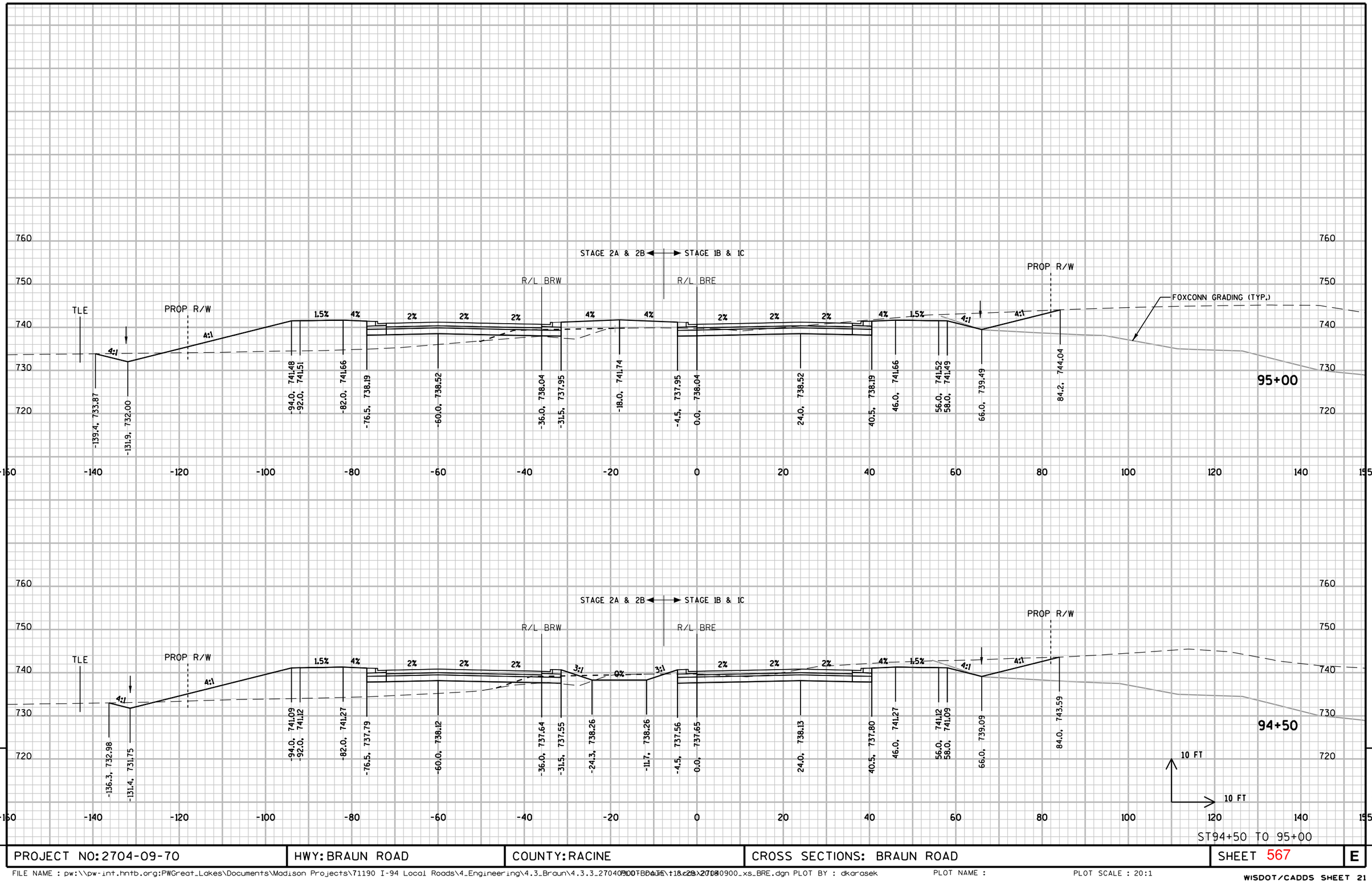


ST93+00 TO 94+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 566	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\18x28x27040900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

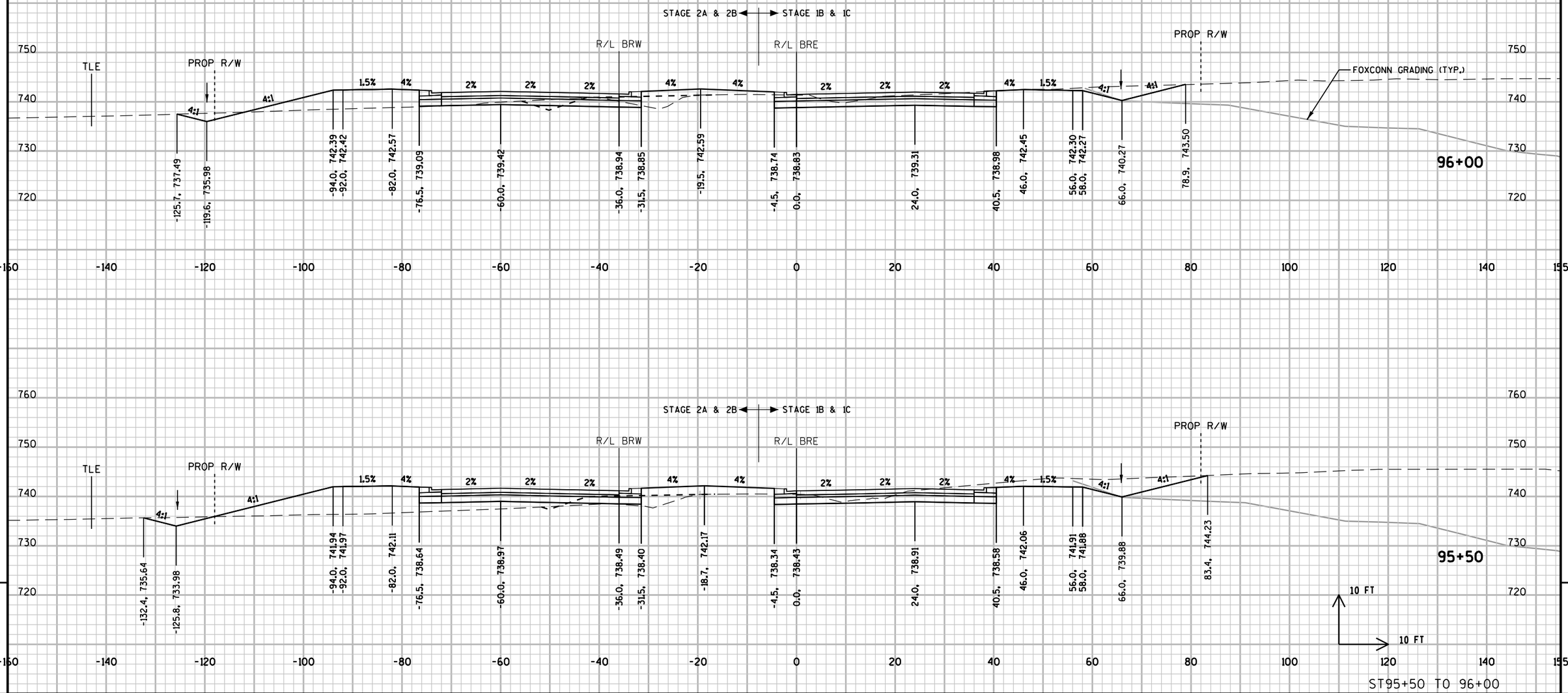
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ST94+50 TO 95+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 567	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\18x28\2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

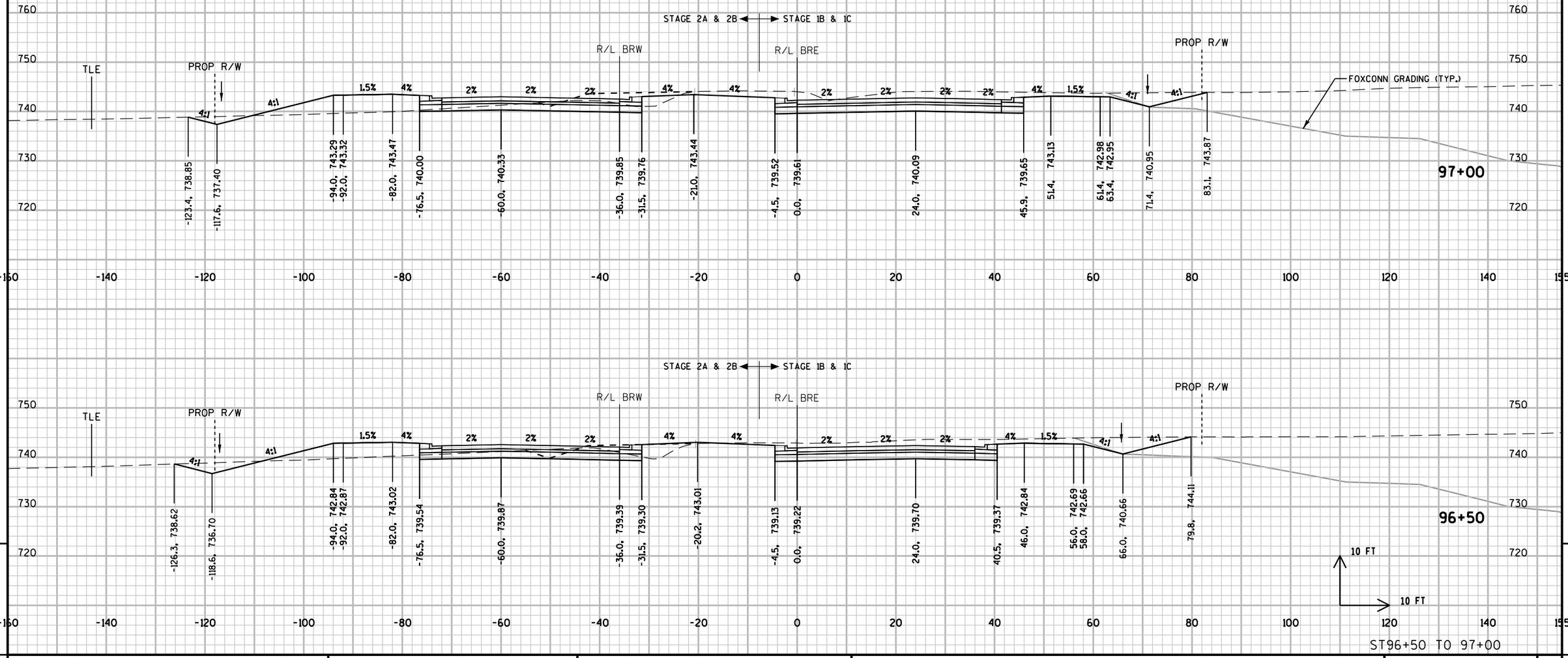
WISDOT/CADDS SHEET 21



ST95+50 TO 96+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 568	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\dgn\xs\27040900_xs_BRE.dgn PLOT BY : dkarasek PLOT DATE : 18 SEP 2018 PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

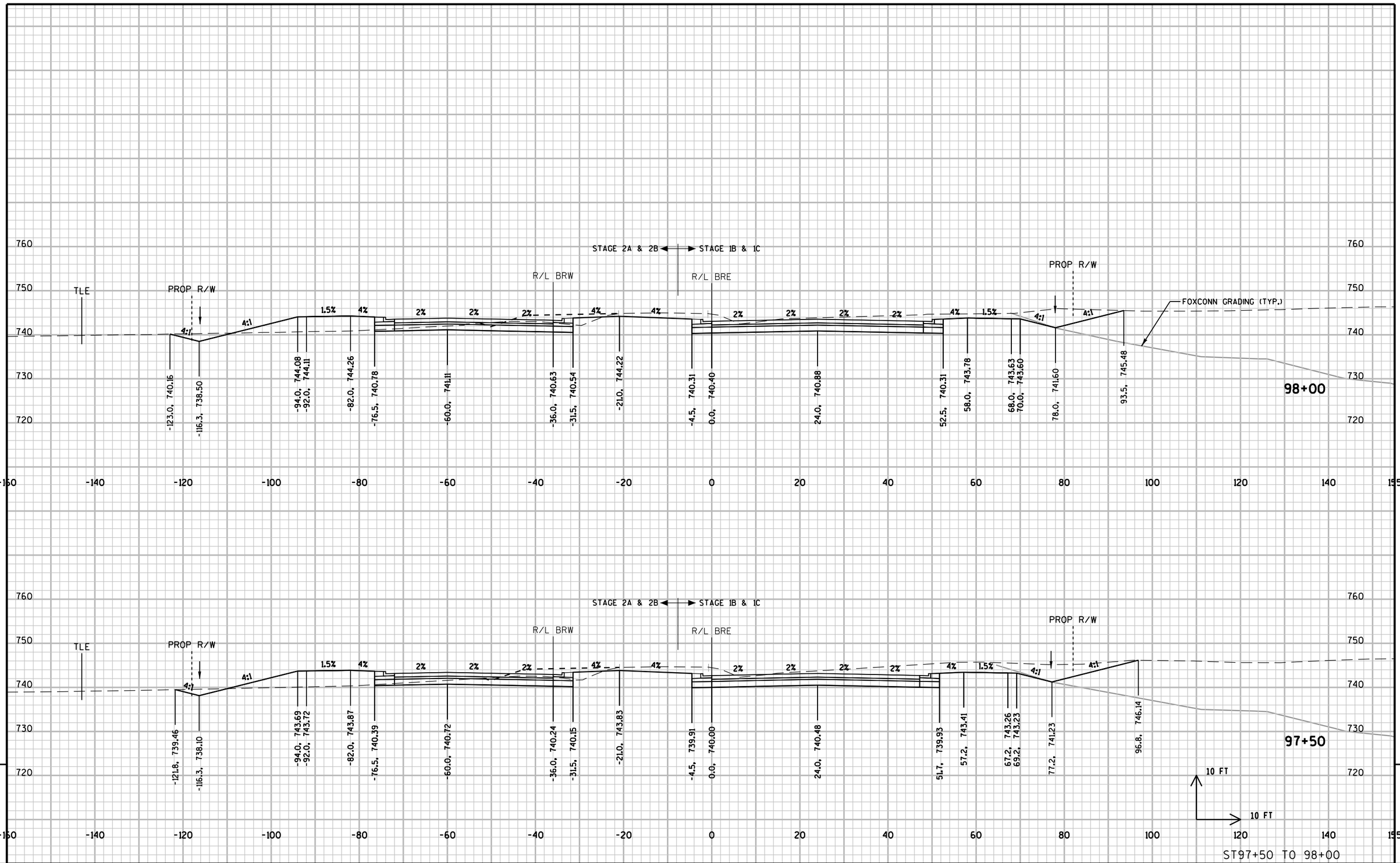


ST96+50 TO 97+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 569	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD\Plots\18x28x2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

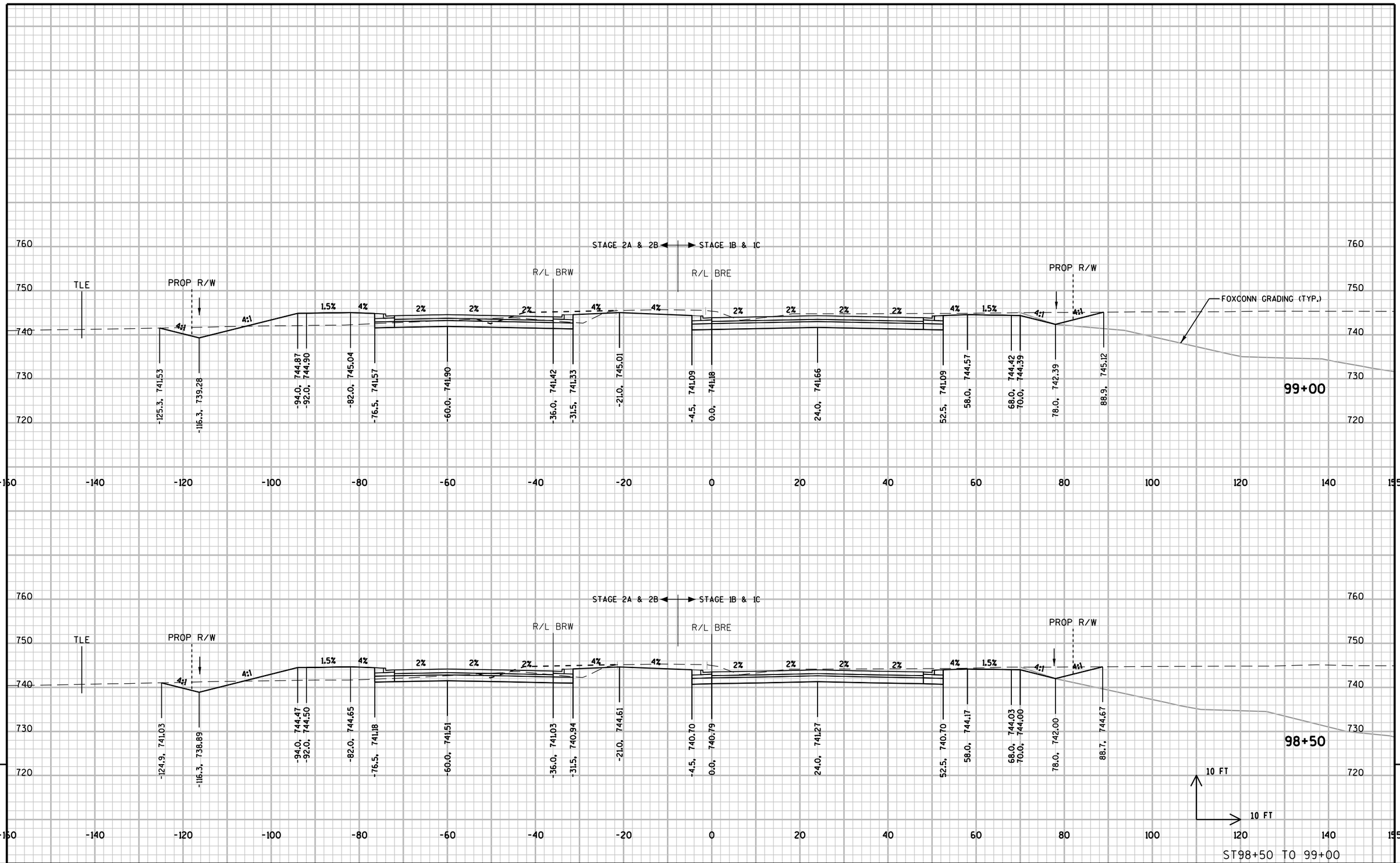
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ST97+50 TO 98+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 570	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090070_BRAUN\18x28x2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT DATE: 18 SEP 2018 PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

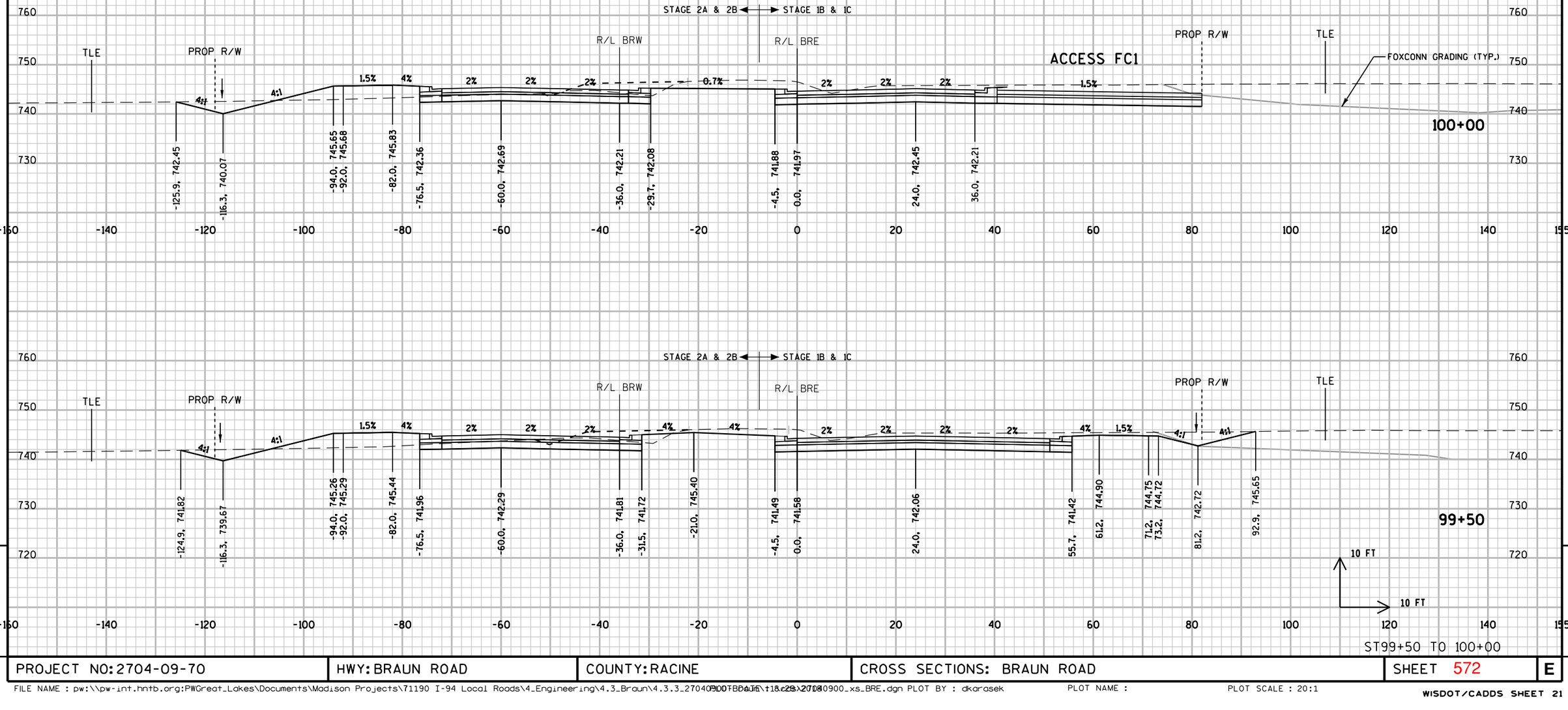


ST98+50 TO 99+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 571	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN\11x28\2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT DATE : 18 SEP 2018 PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

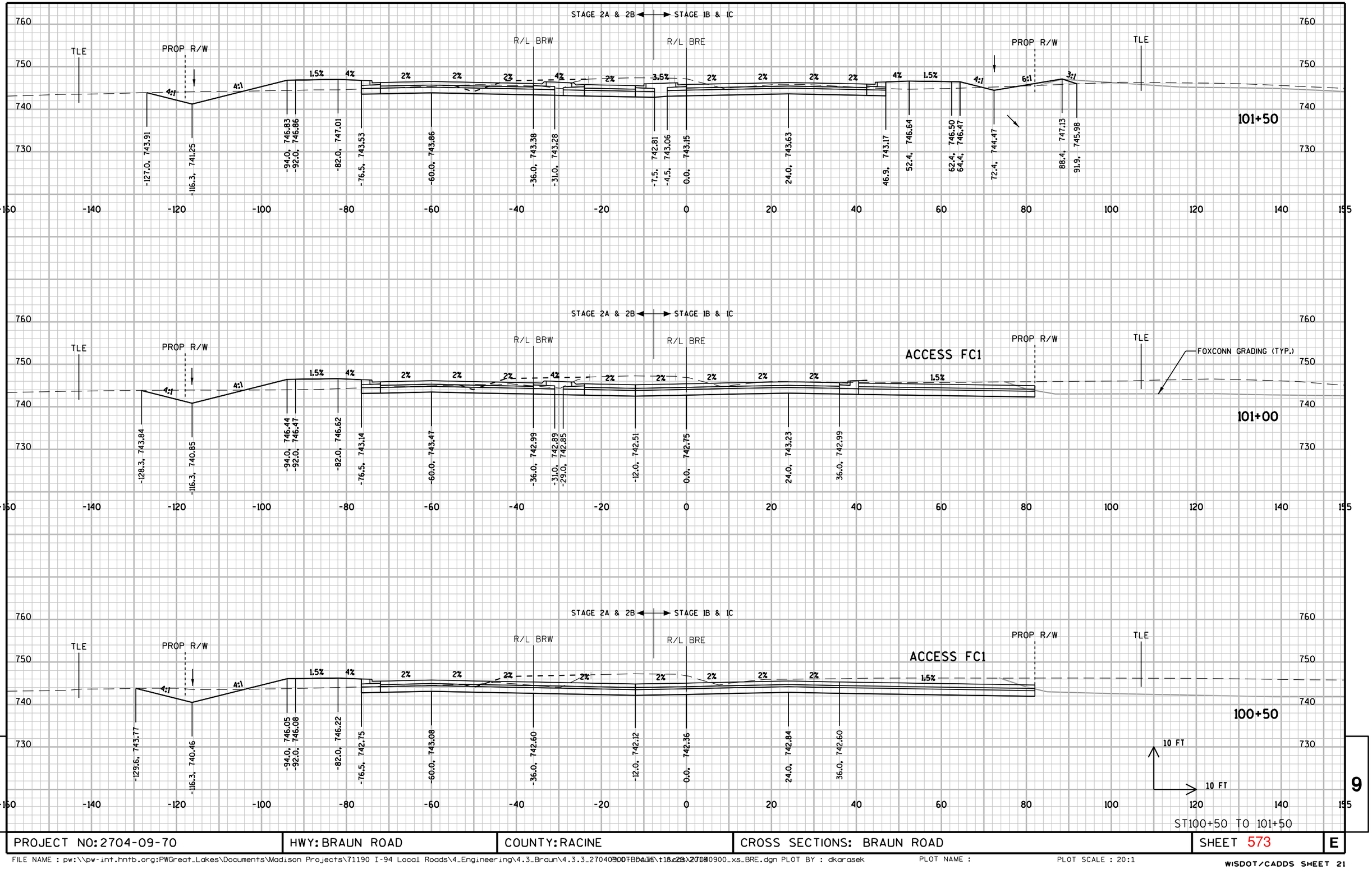
9

ST99+50 TO 100+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 572	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090[illegible]\18x28\2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

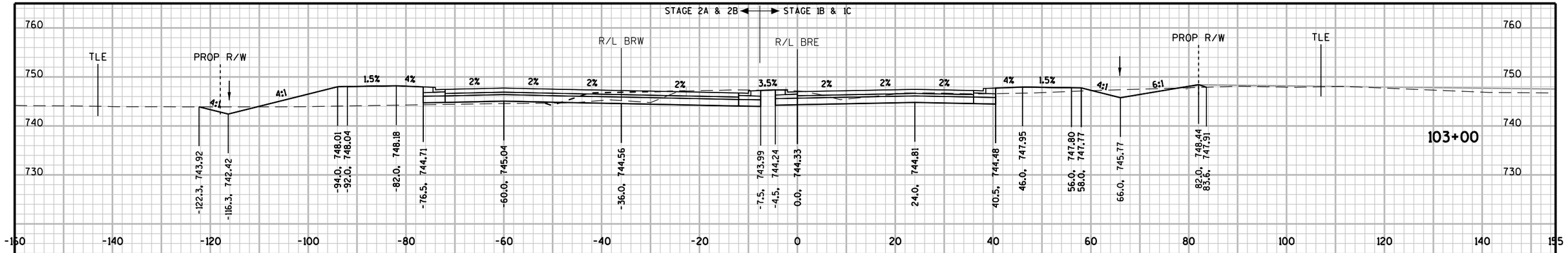


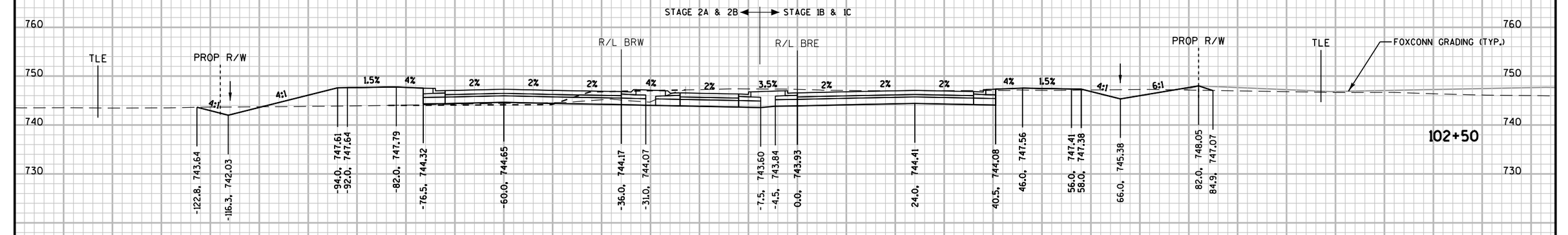
ST100+50 TO 101+50

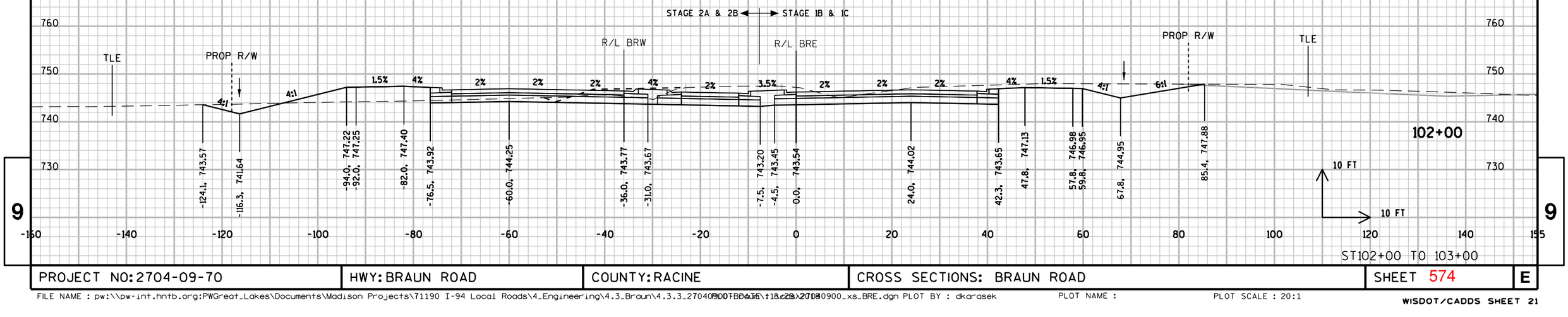
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 573	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD\5\18x28\2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21







9

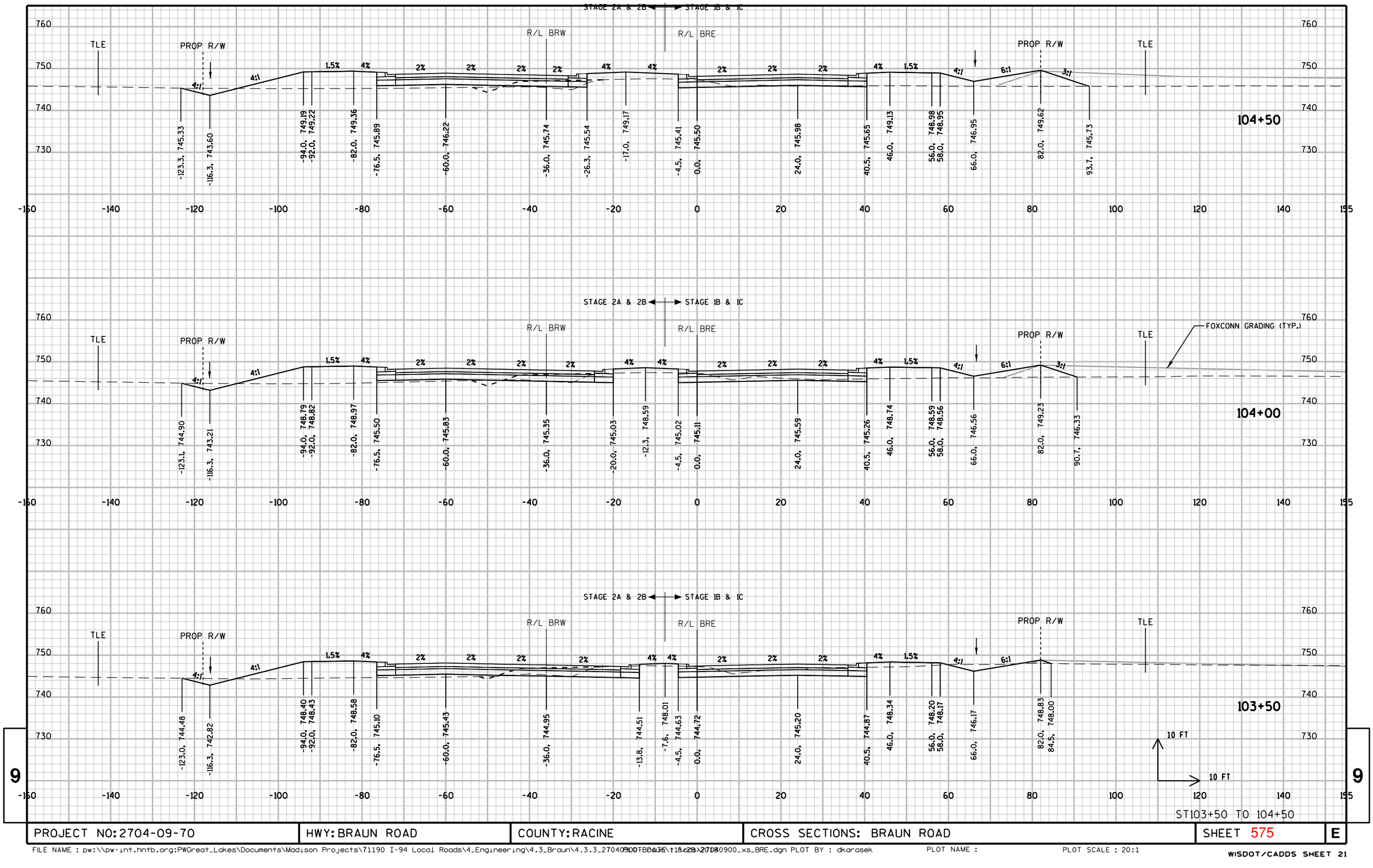
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ST102+00 TO 103+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 574	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dir\18x28x2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



ST103+50 TO 104+50

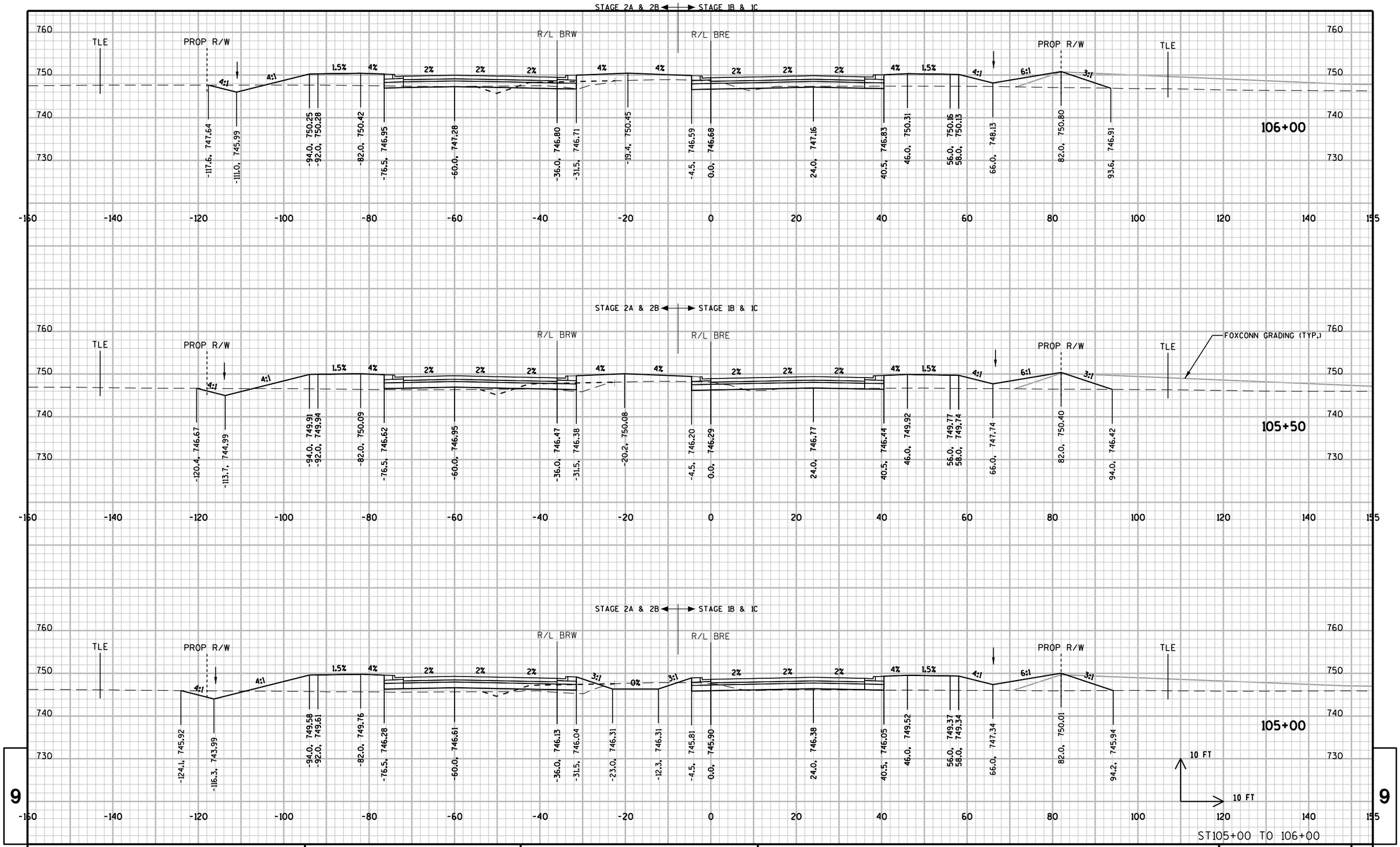
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 575	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD_Braun_t18_28\2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

9

9



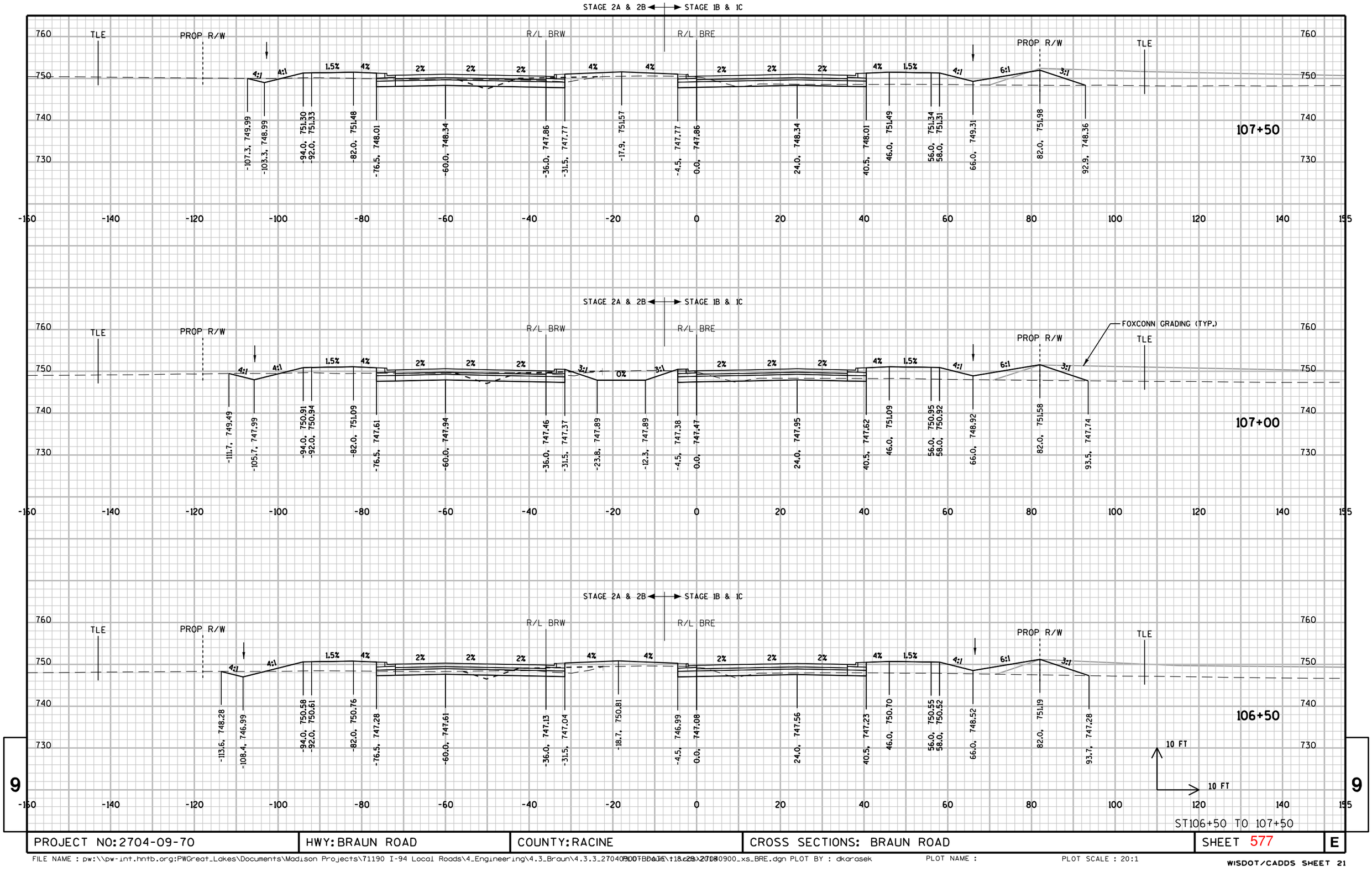
ST105+00 TO 106+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 576	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\t18_28x27040900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

9



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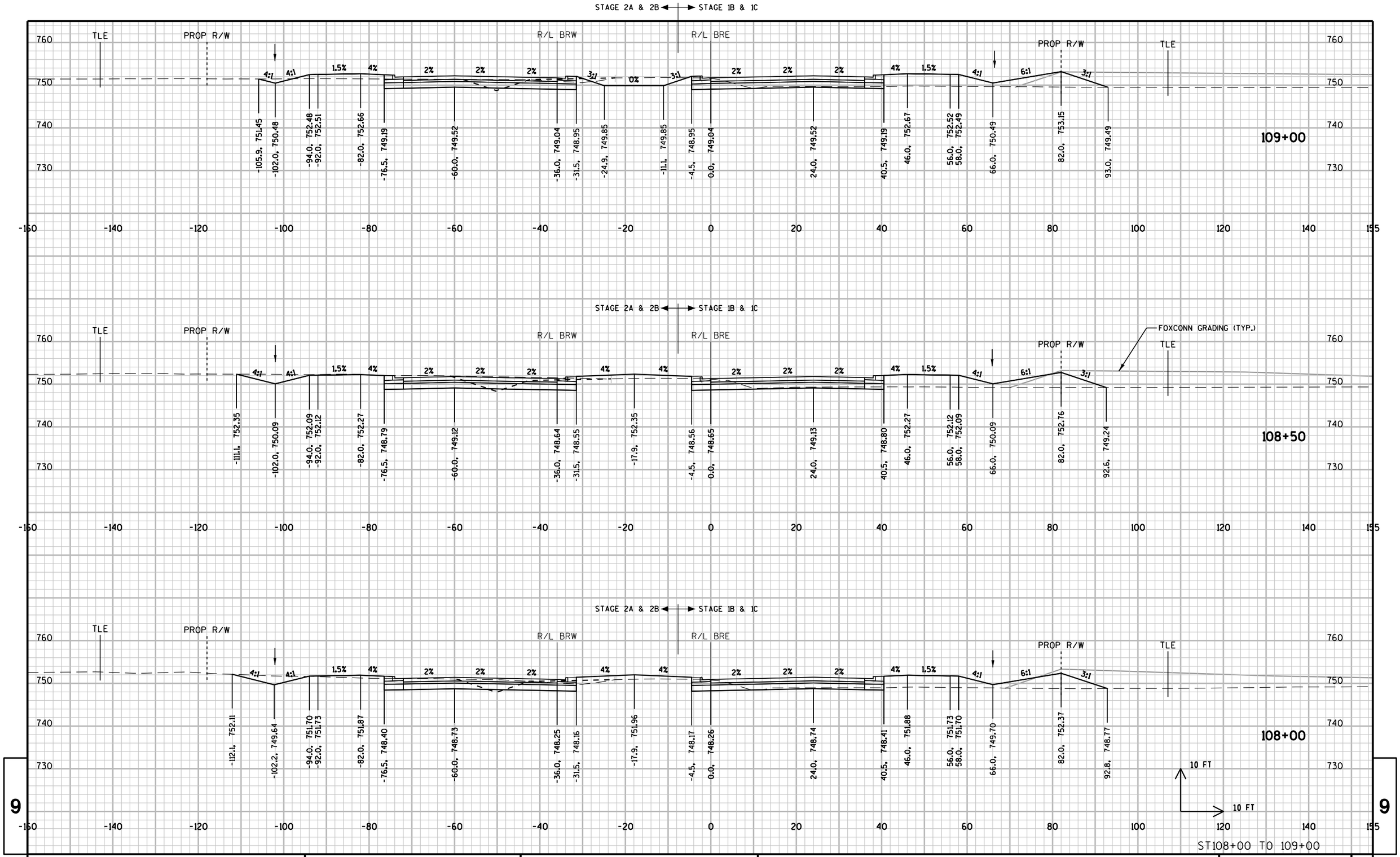
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ST106+50 TO 107+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 577	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\18x28\2704090_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

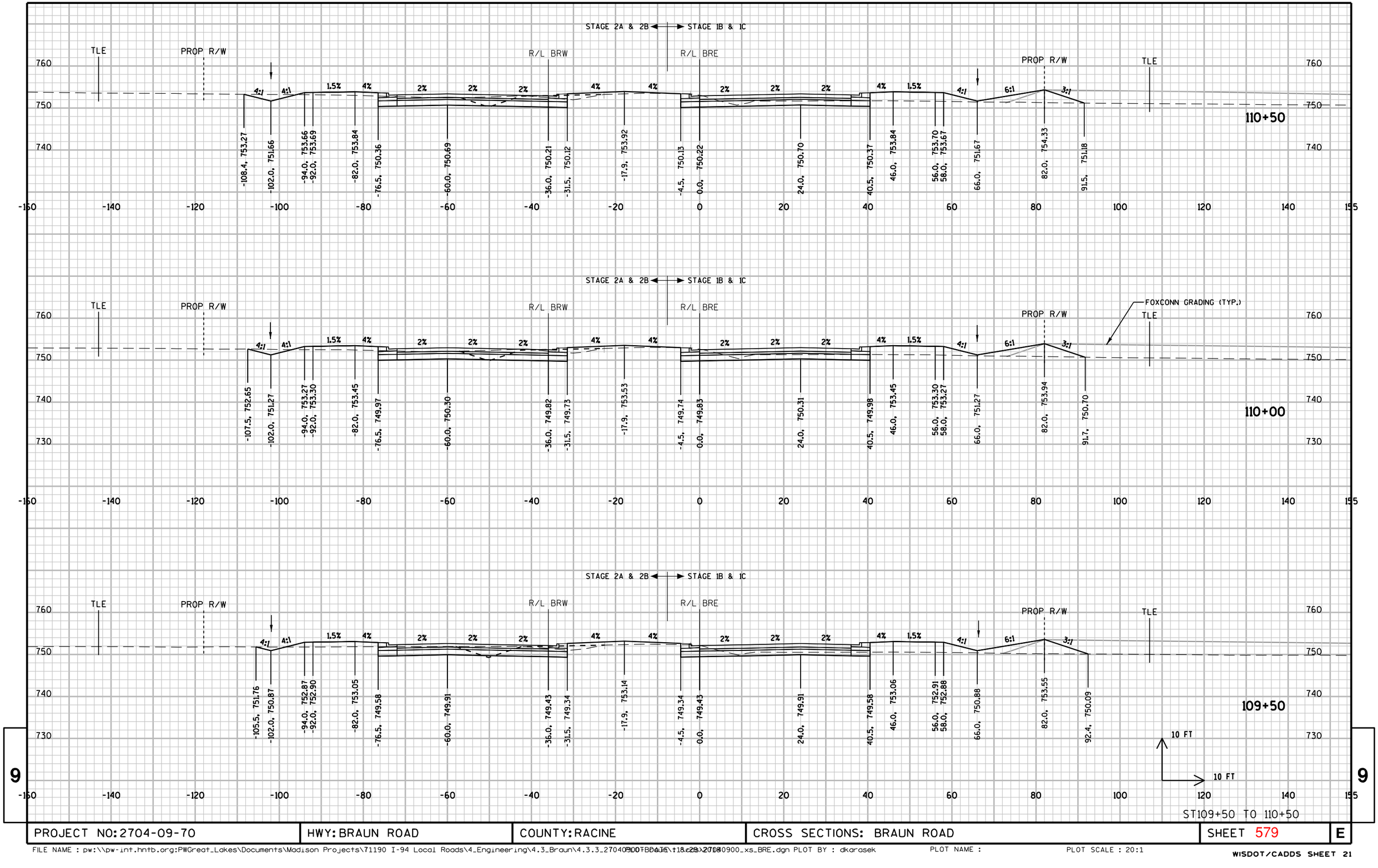
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ST108+00 TO 109+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 578	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN\18x28\2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

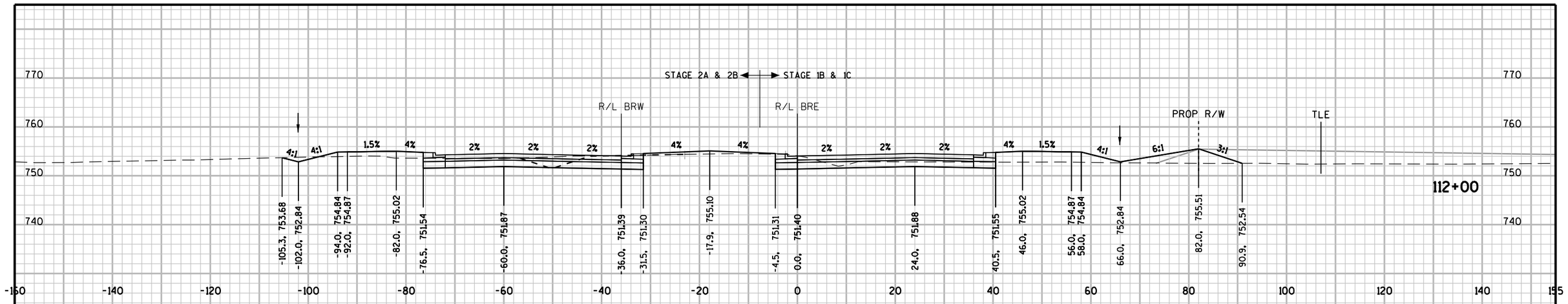
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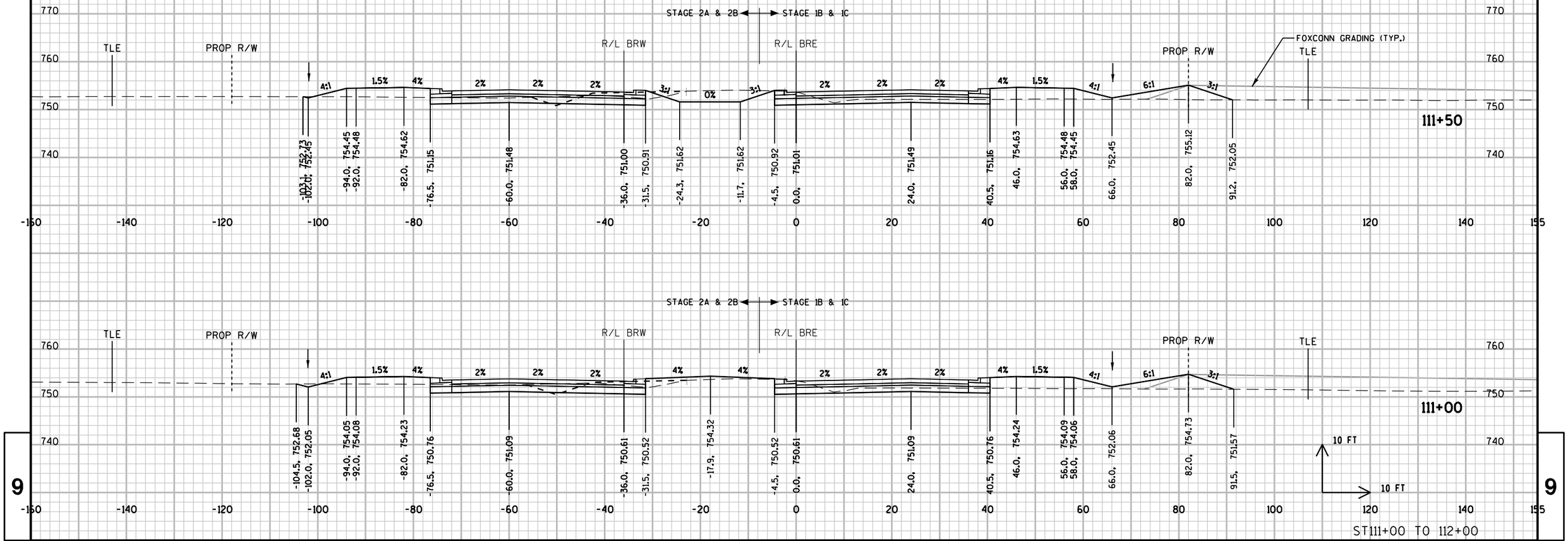
ST109+50 TO 110+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 579	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dir\18x28x2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21





ST111+00 TO 112+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 580	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN\sht\18x28\2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

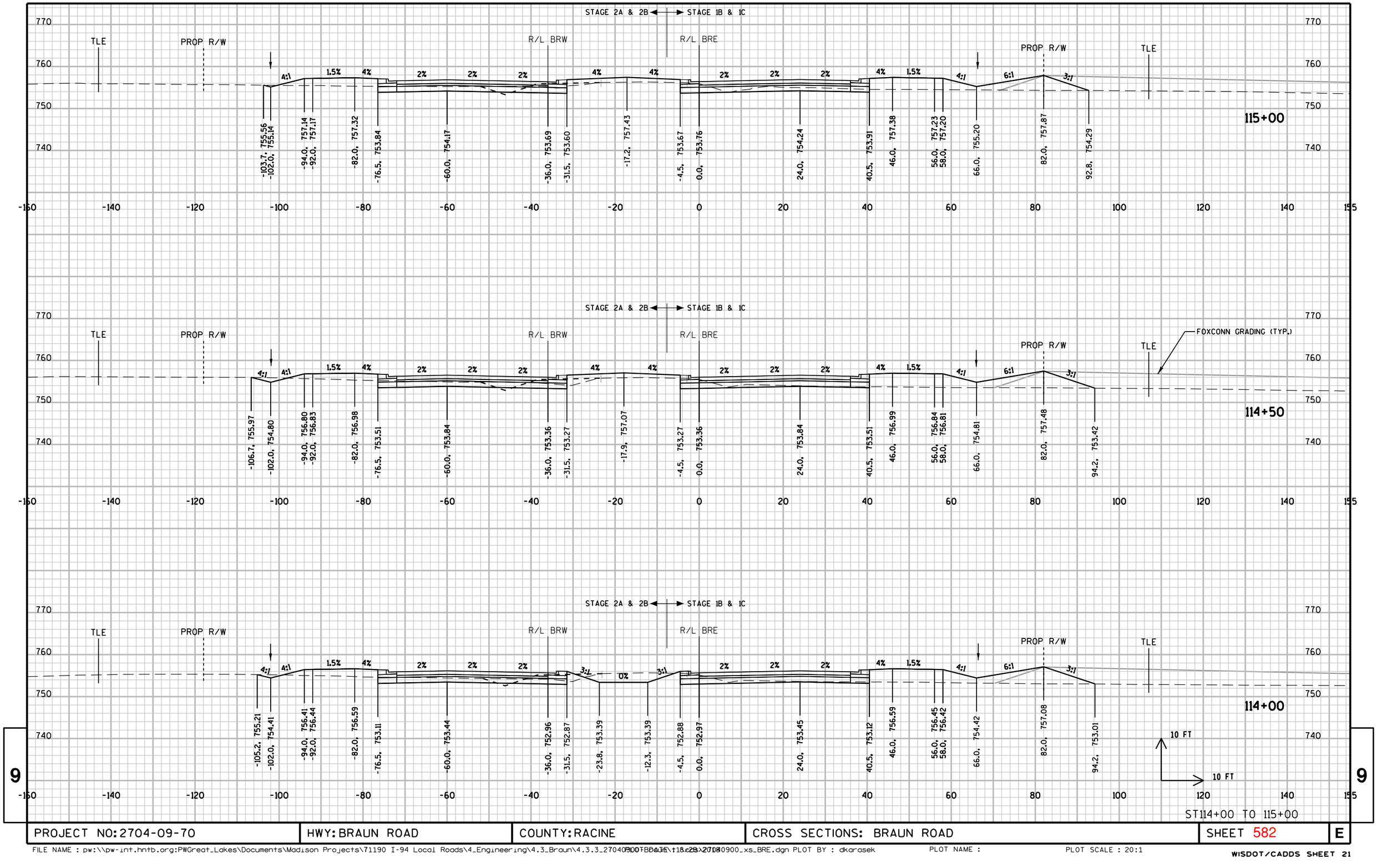
ST112+50 TO 113+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 581	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD\t18.28x20\20240900_xs_BRE.dgn PLOT BY : dkarasek PLOT DATE : 18.28x20 PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

9



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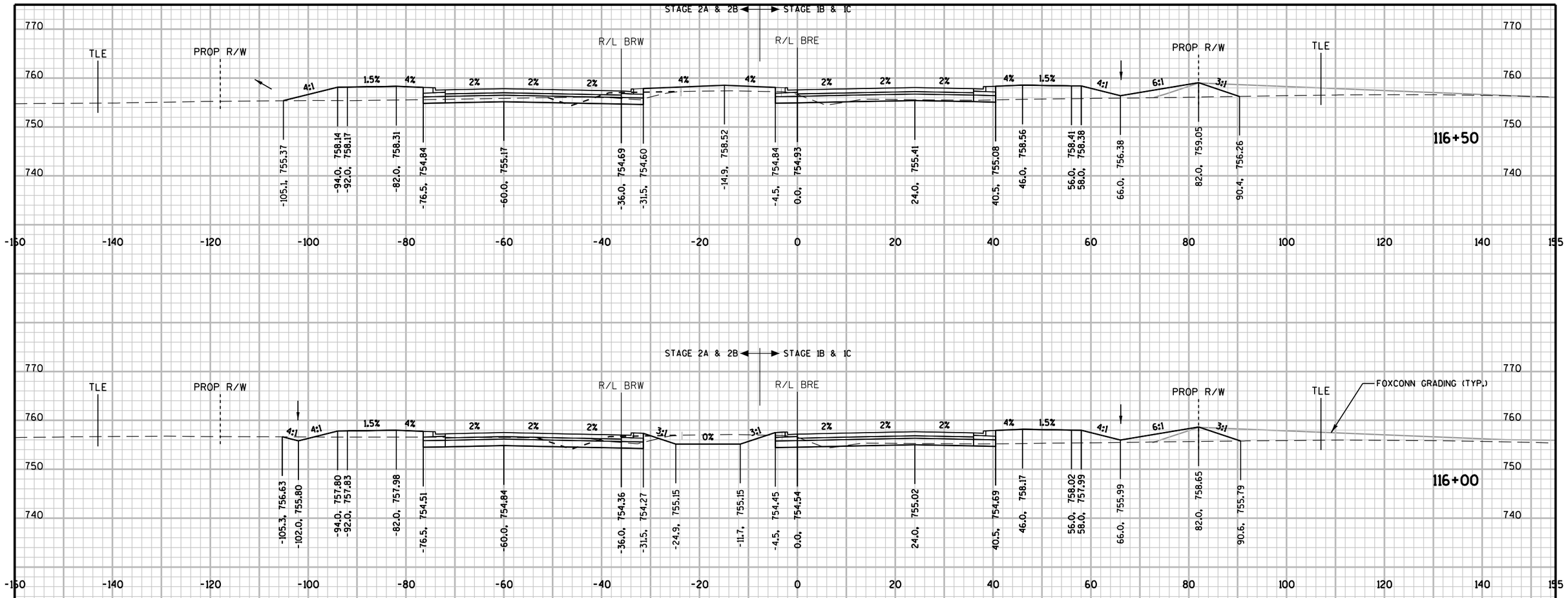
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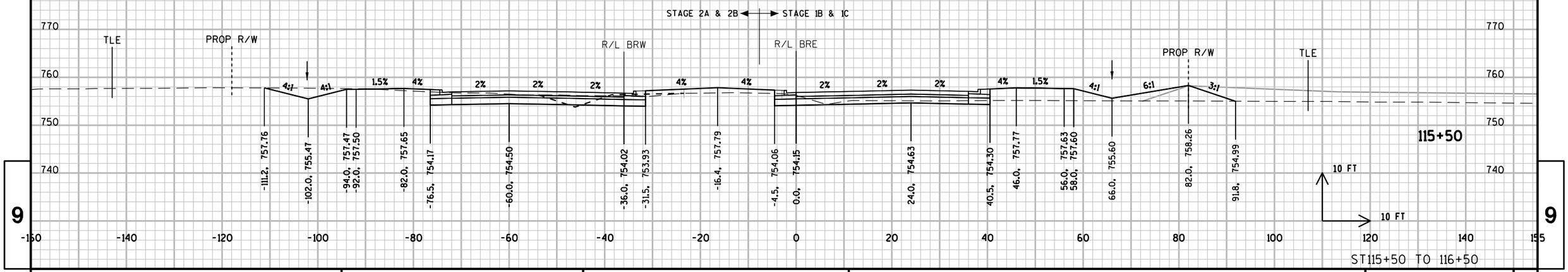
ST114+00 TO 115+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 582	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_270409000_BRAUN\18x28x270409000_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21





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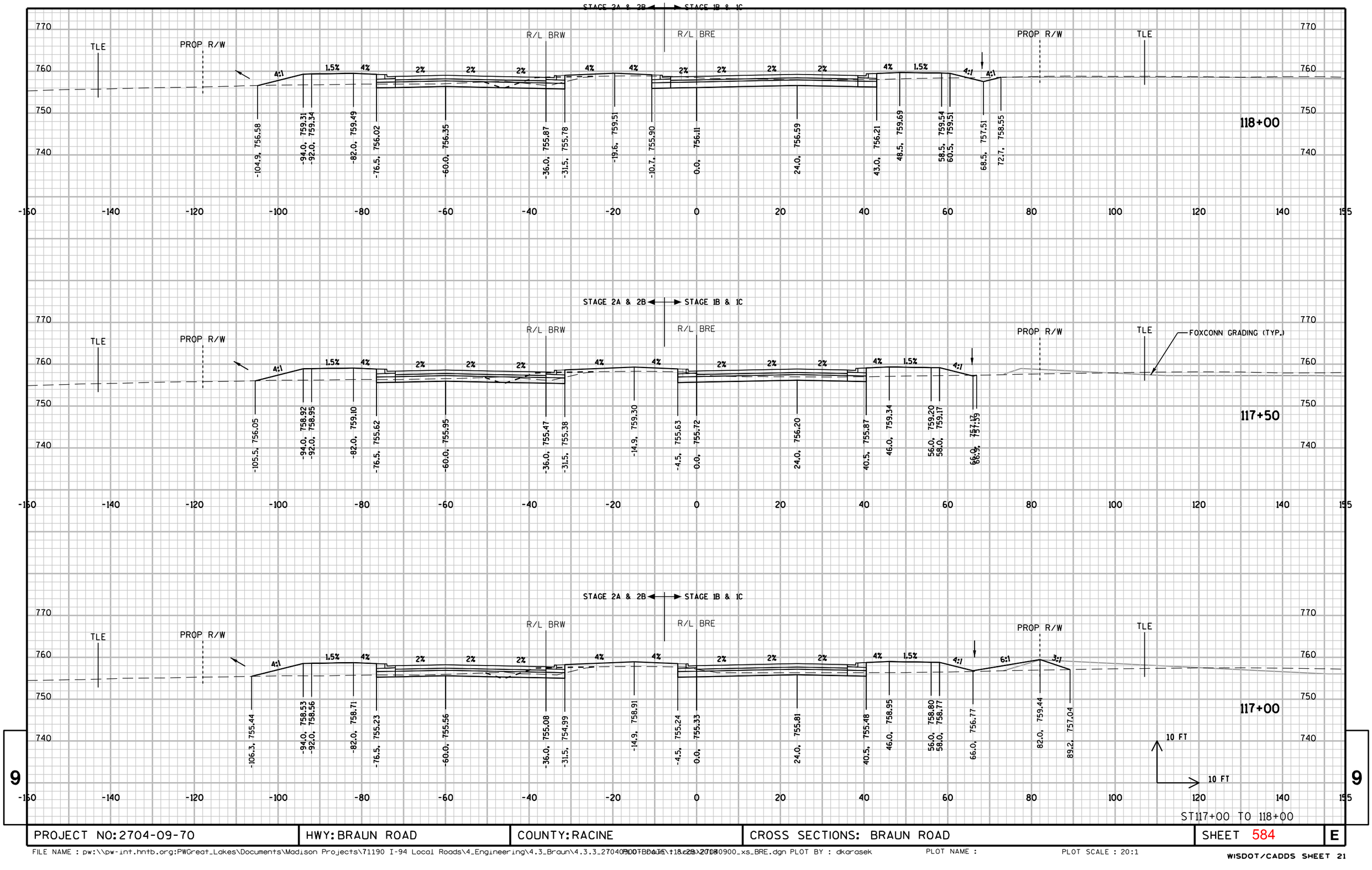
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ST115+50 TO 116+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 583	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\t18x28x2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

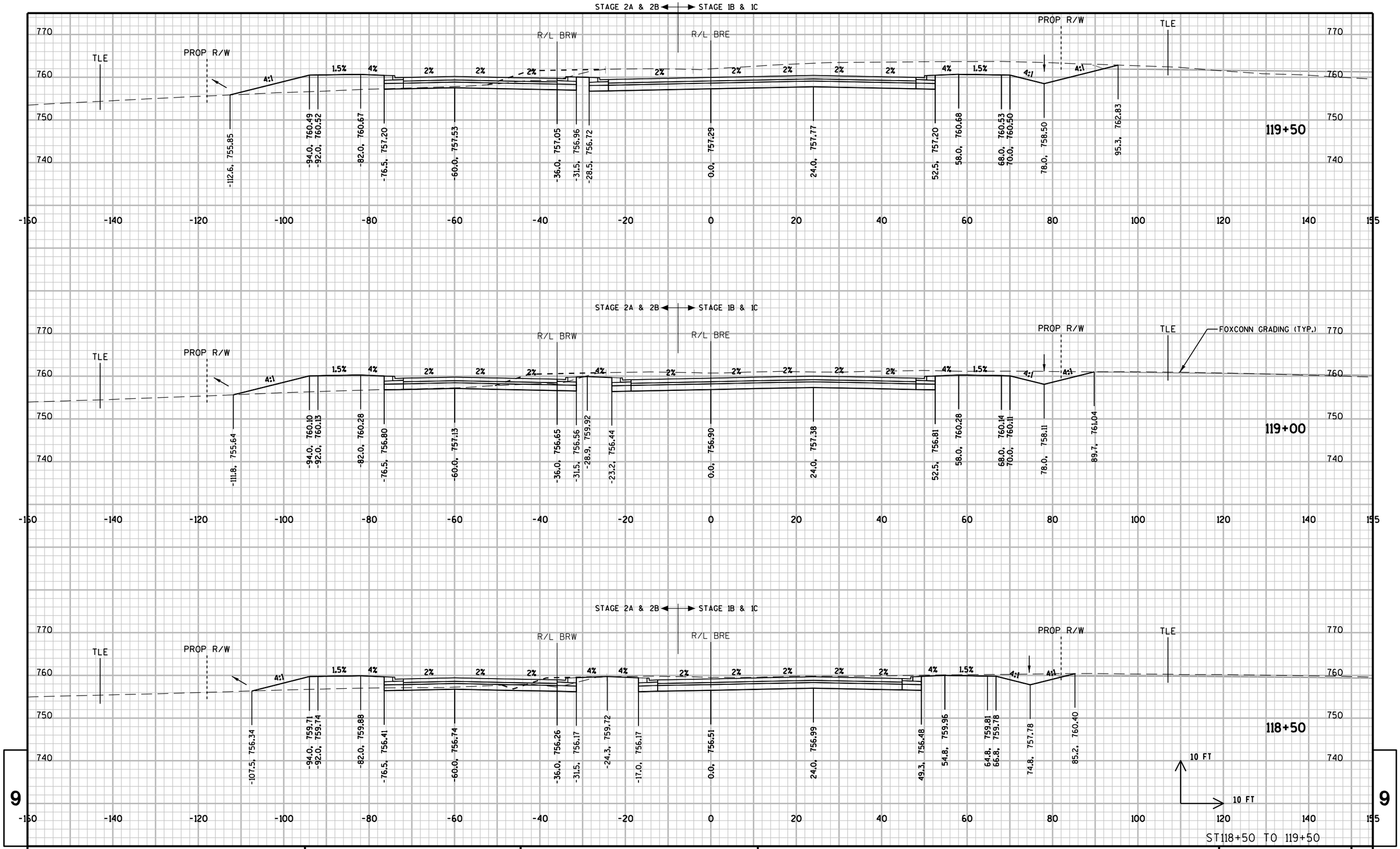


ST117+00 TO 118+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 584	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\t18x28x2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

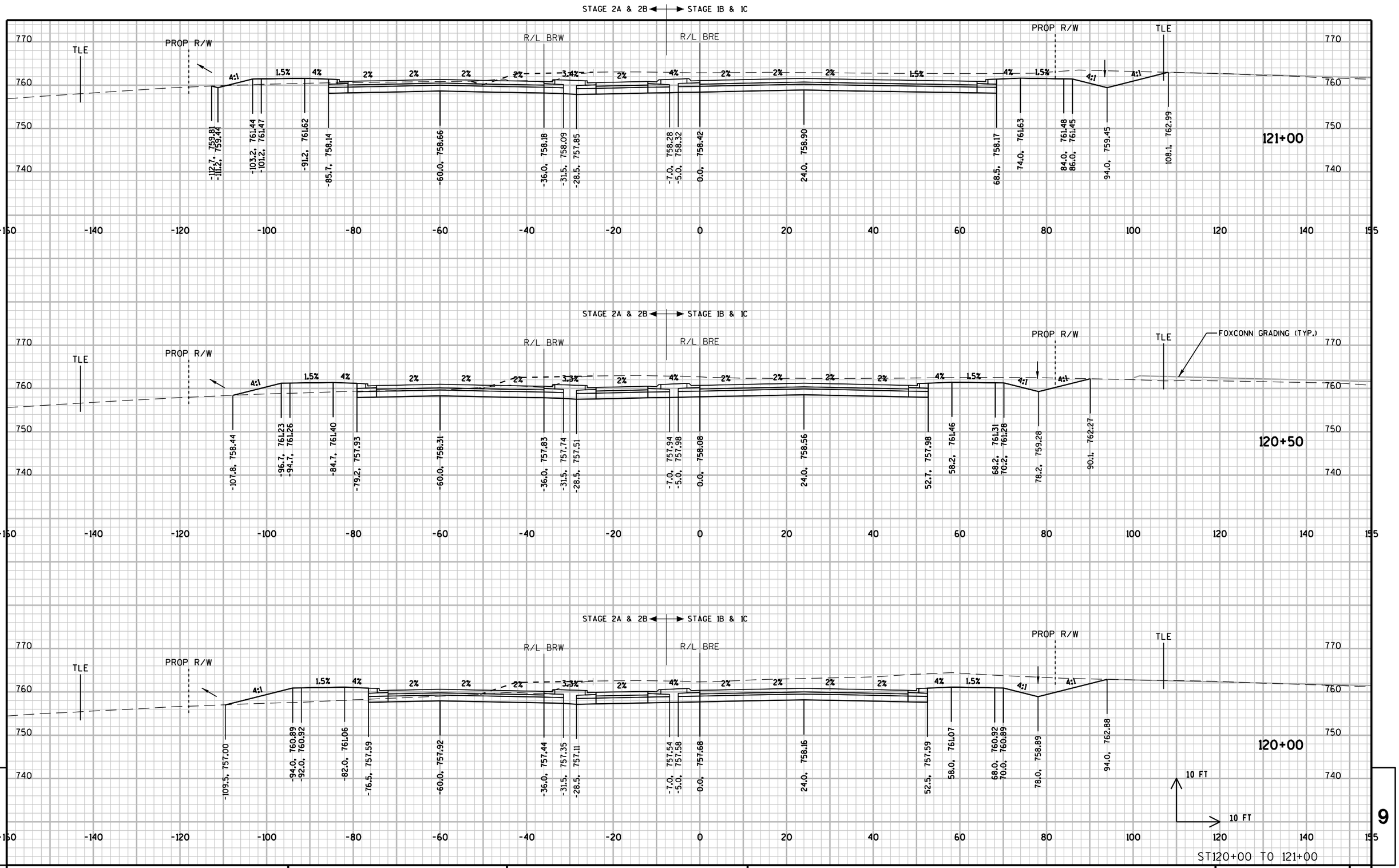
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ST118+50 TO 119+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 585	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dir\18x28x2704090_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

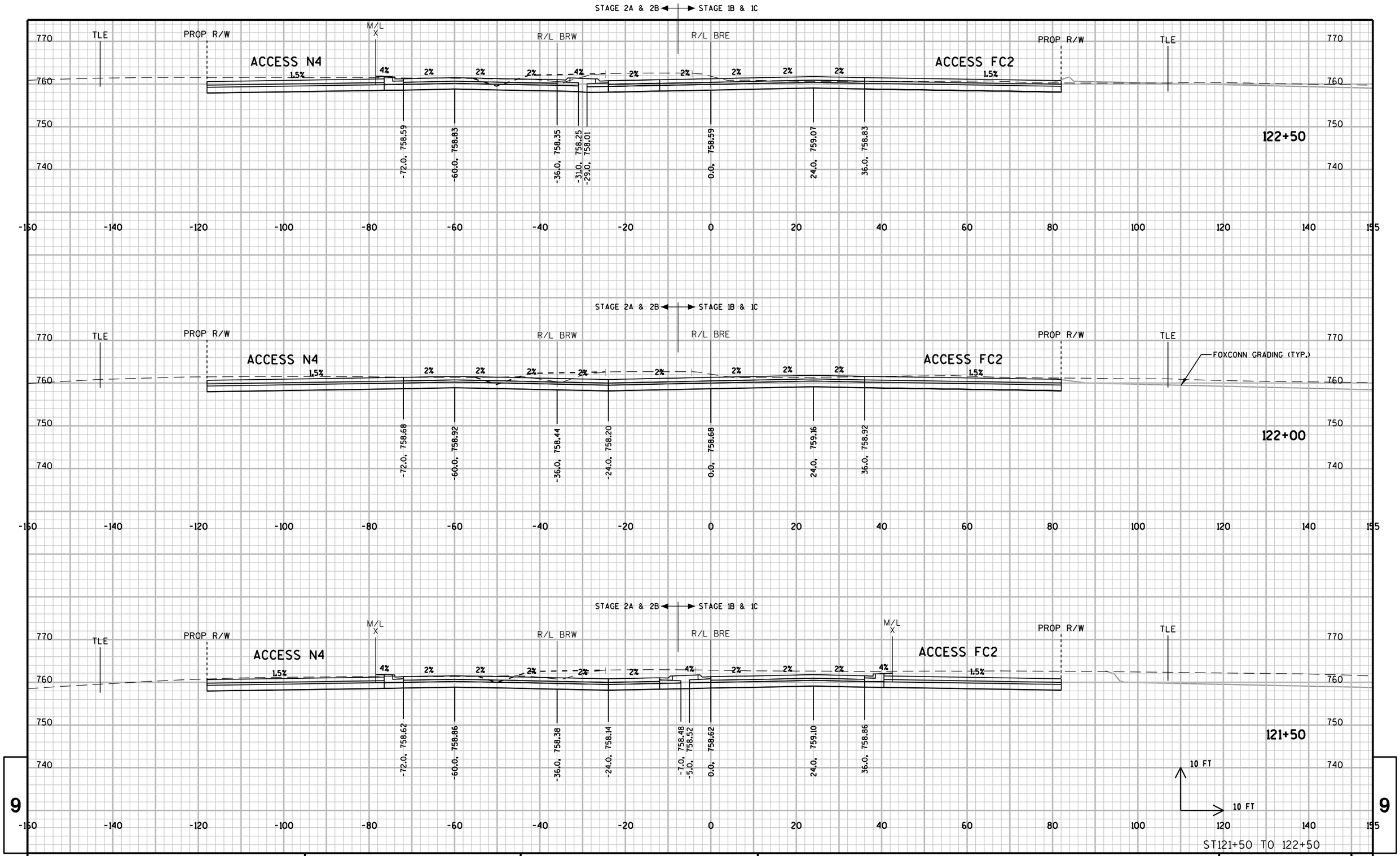


ST120+00 TO 121+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 586	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\18x28\27040900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

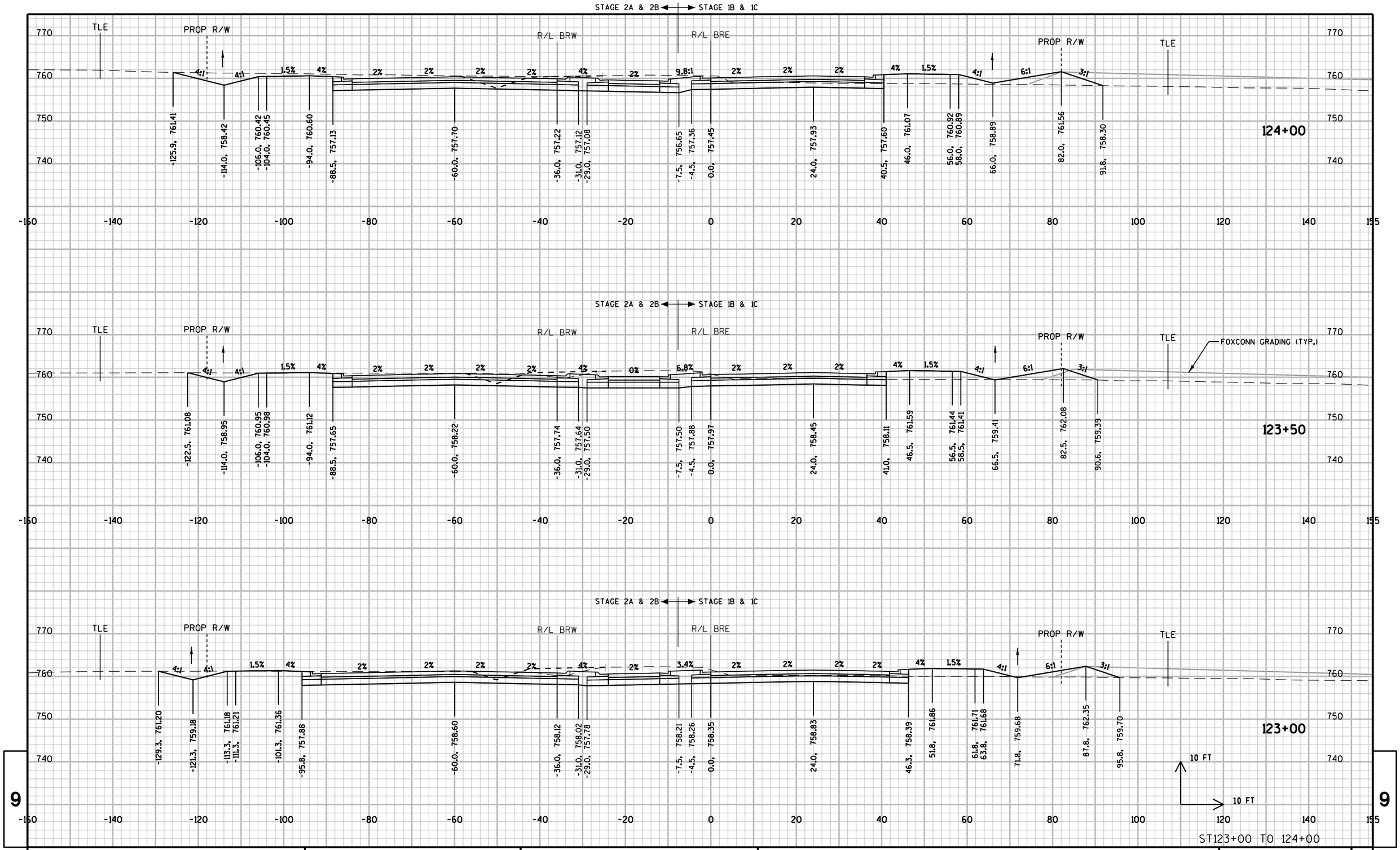


ST121+50 TO 122+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 587	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN_18_28\2704090_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

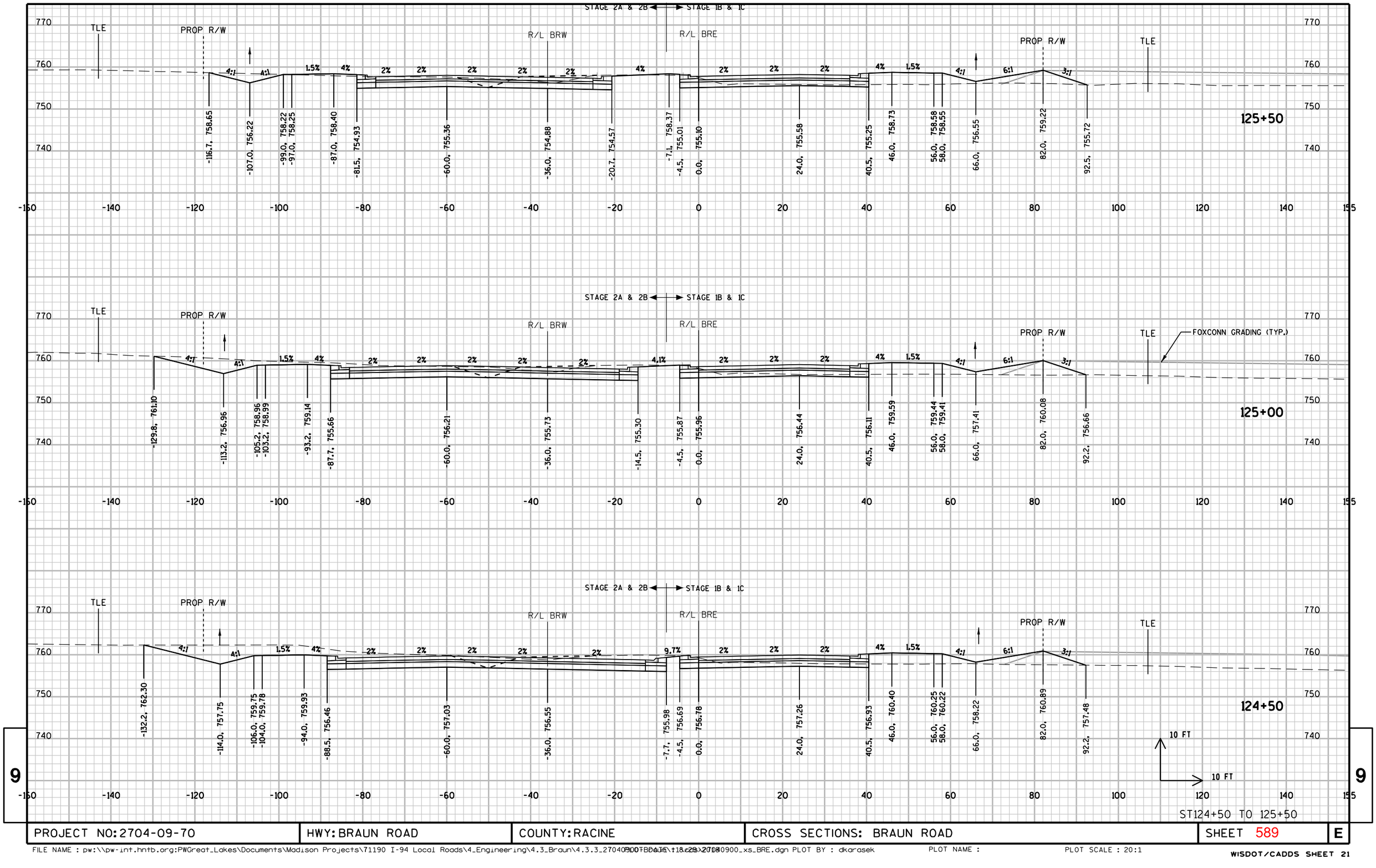
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ST123+00 TO 124+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 588	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN\18x28\2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



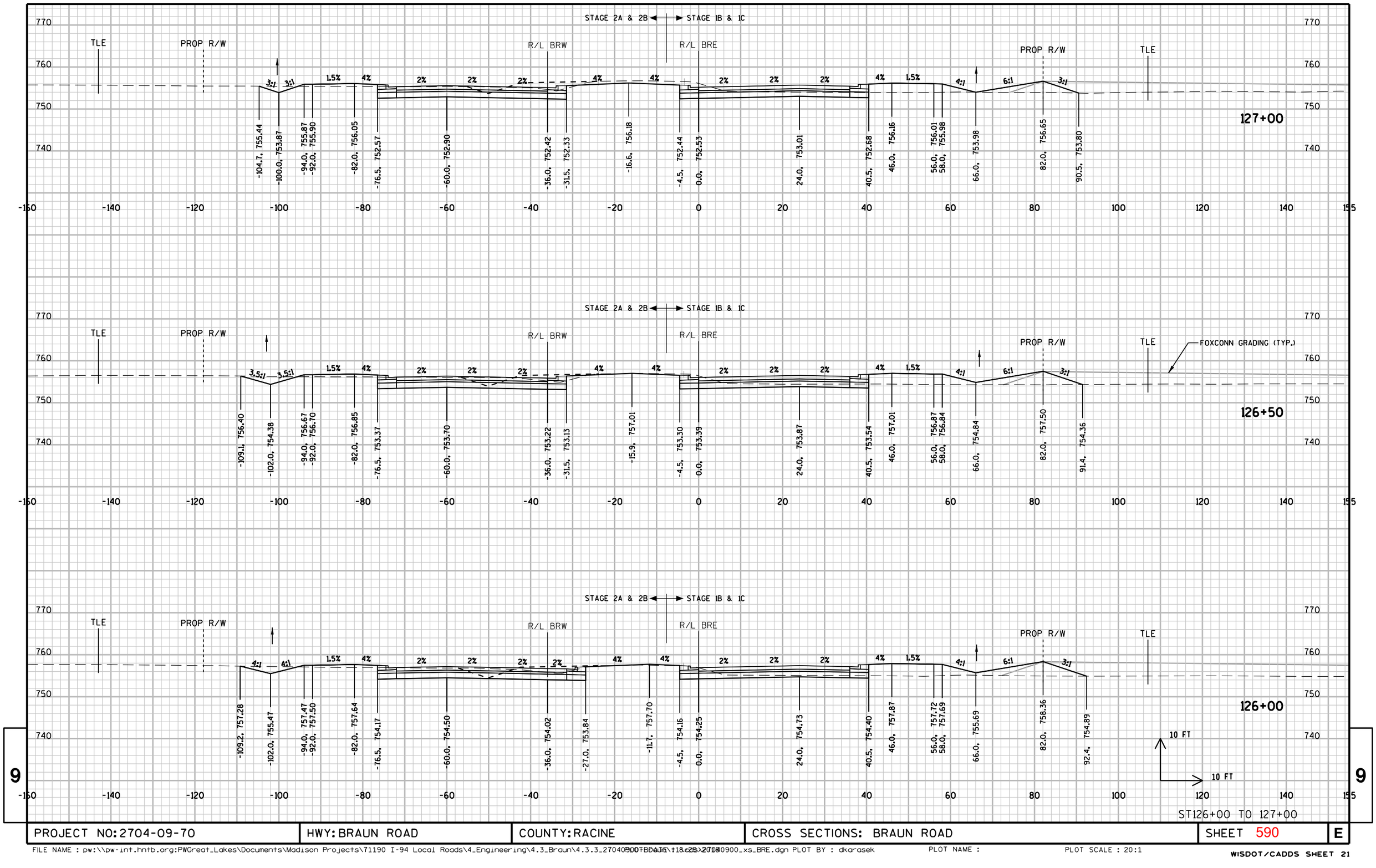
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9

ST124+50 TO 125+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 589	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN\t18x28\2704090_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1



9

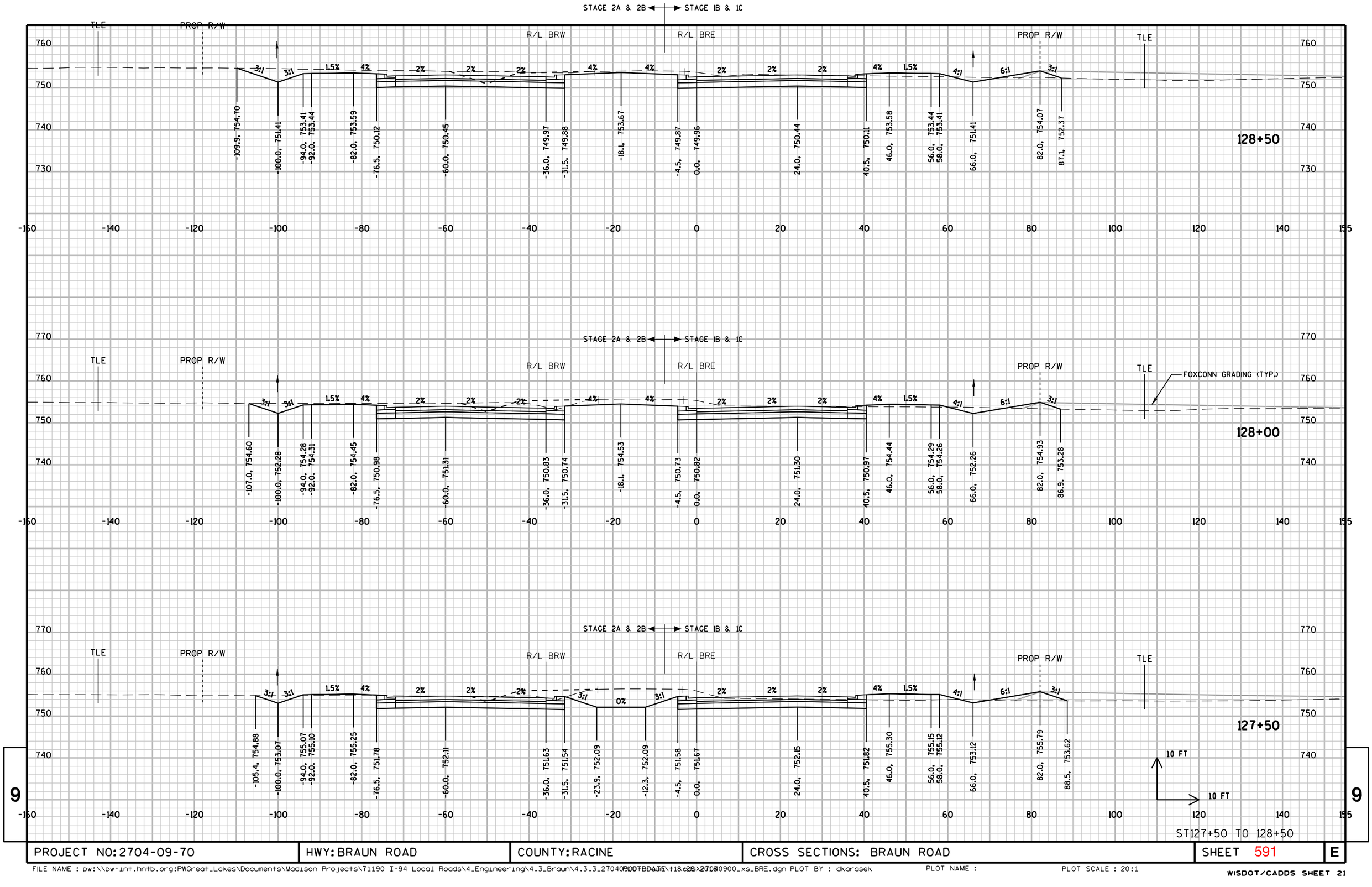
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ST126+00 TO 127+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 590	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN_18_28_20180900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

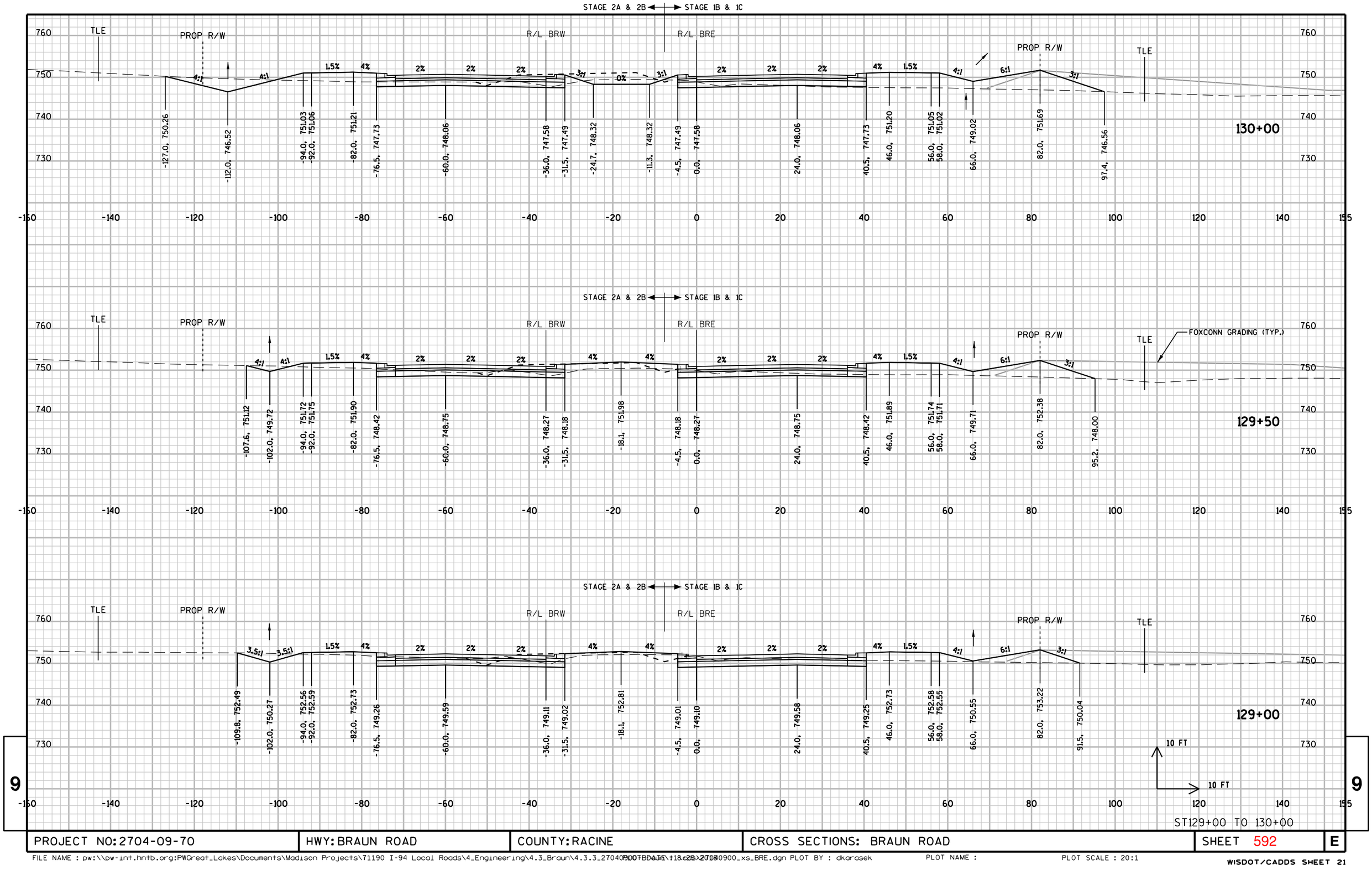
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ST127+50 TO 128+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 591	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN\plan\xs\2704090_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

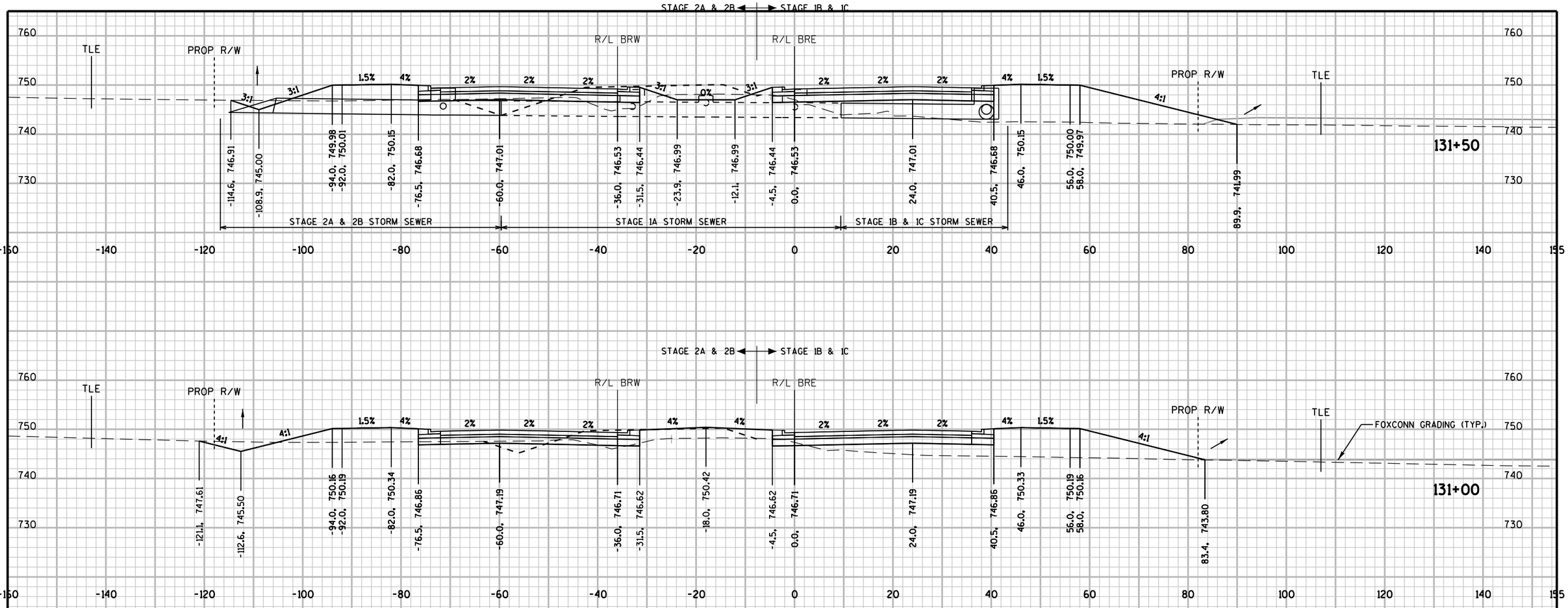


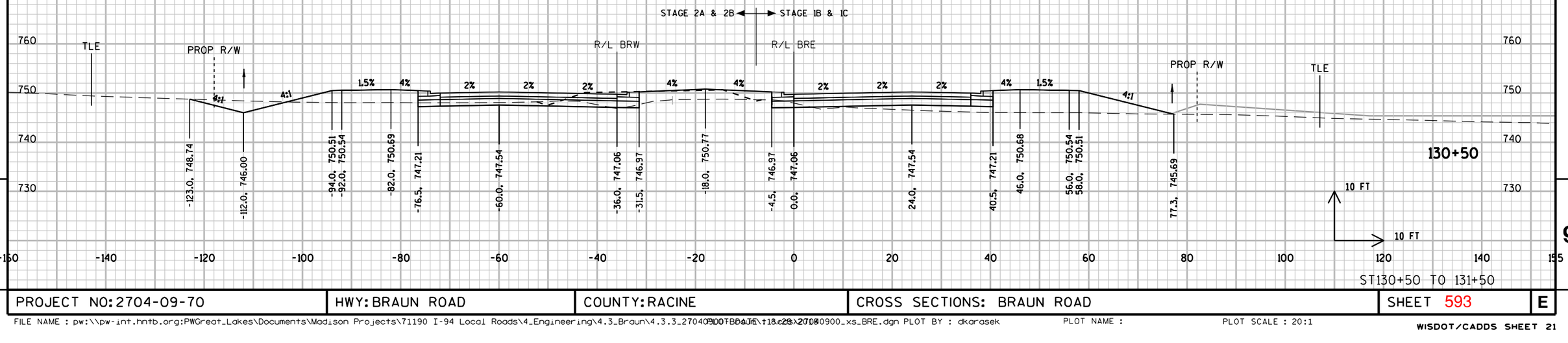
ST129+00 TO 130+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 592	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\18x28x2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21





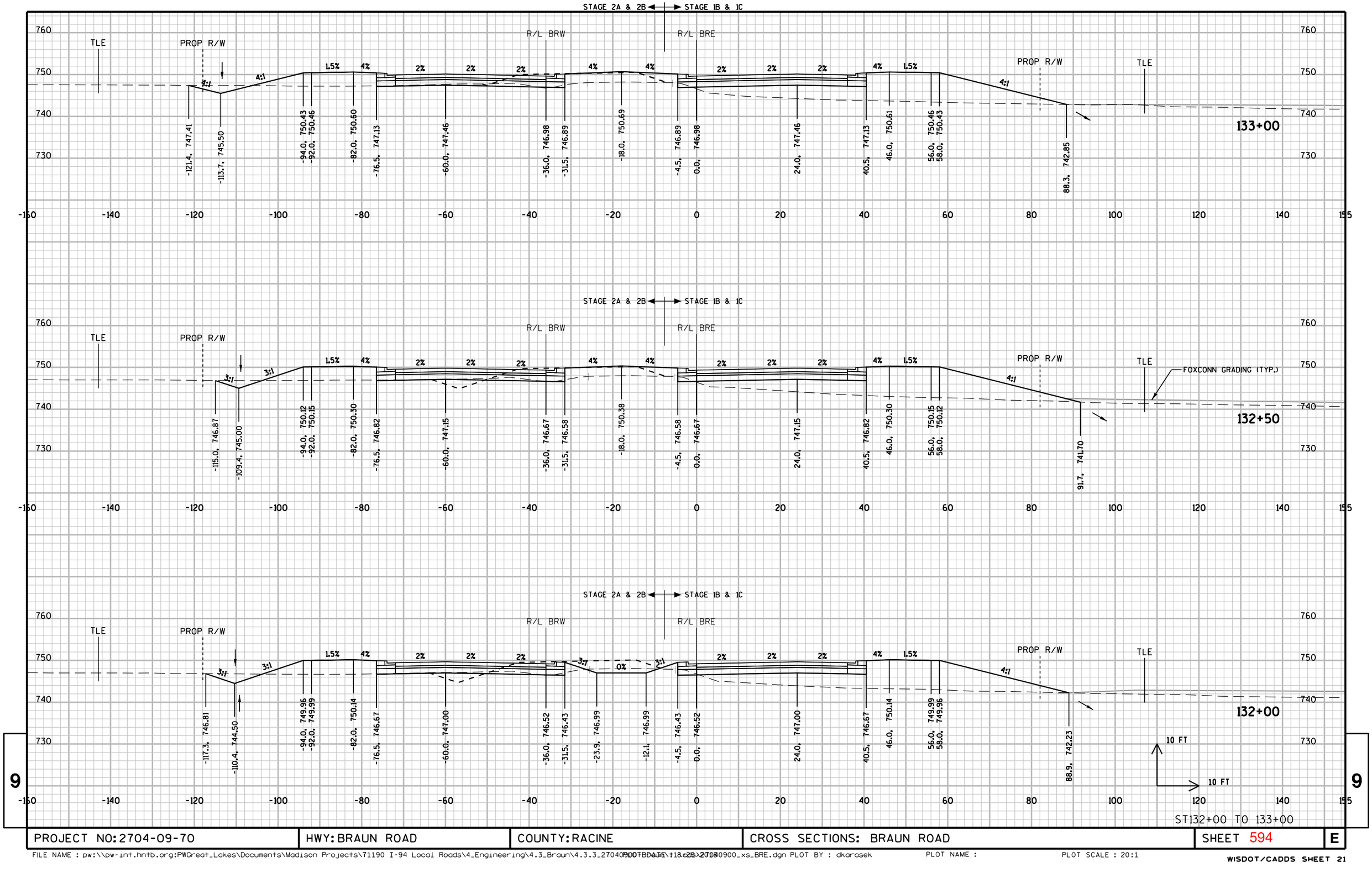
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9

ST130+50 TO 131+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 593	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_PLOT_BRAUN_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



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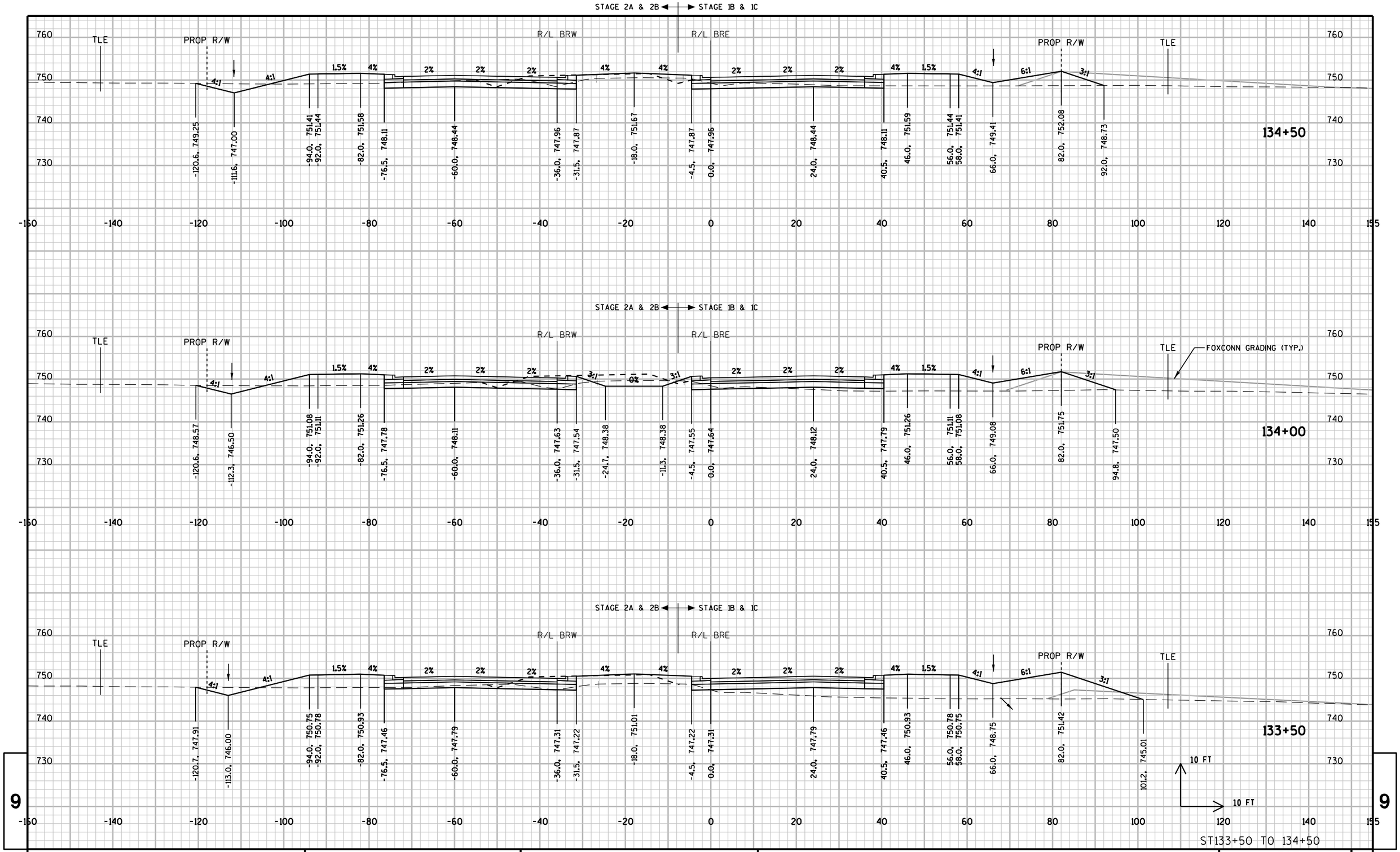
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ST132+00 TO 133+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 594	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\18x28x2704090_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

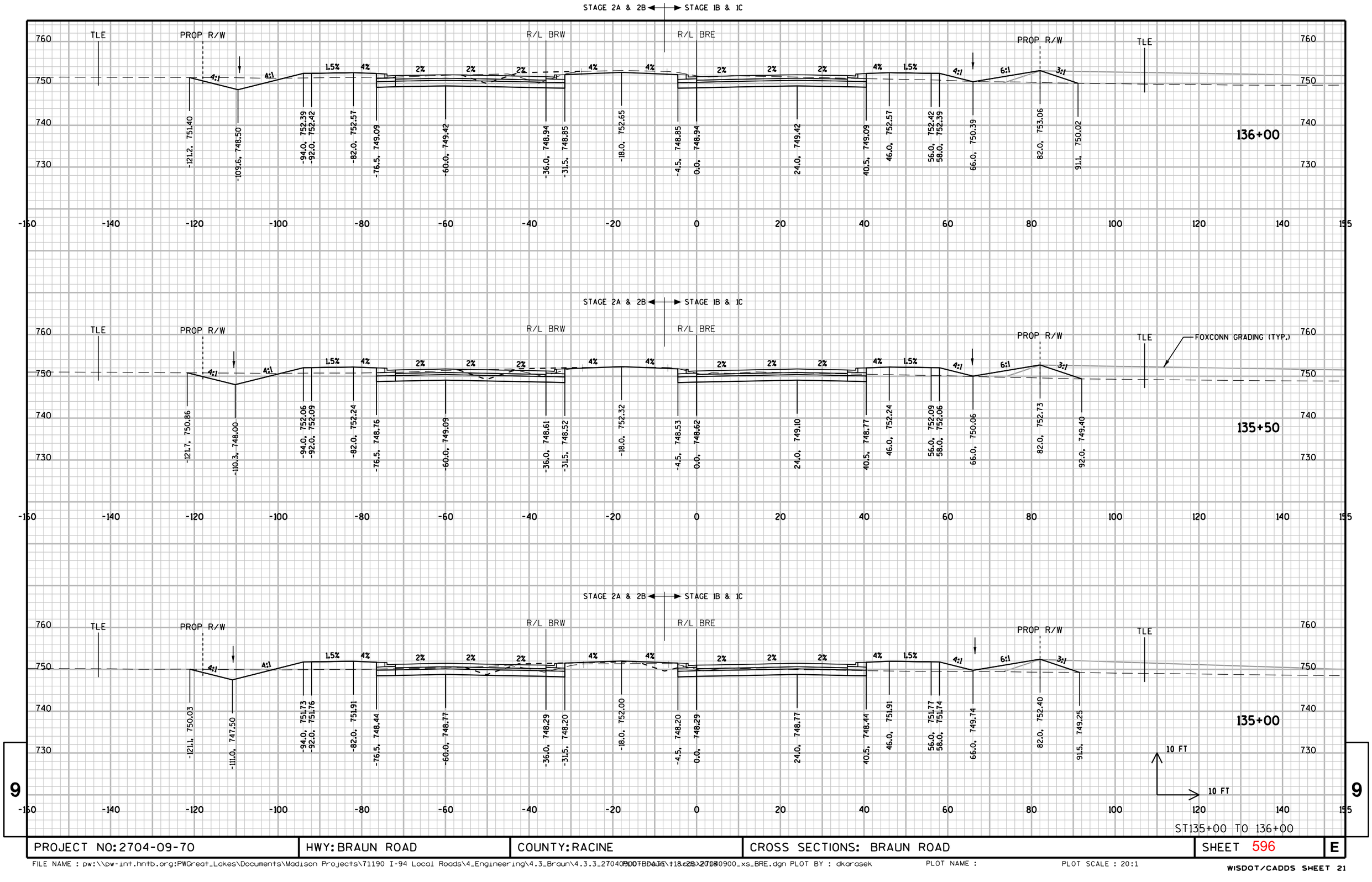
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ST133+50 TO 134+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 595	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\18x28x2704090_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

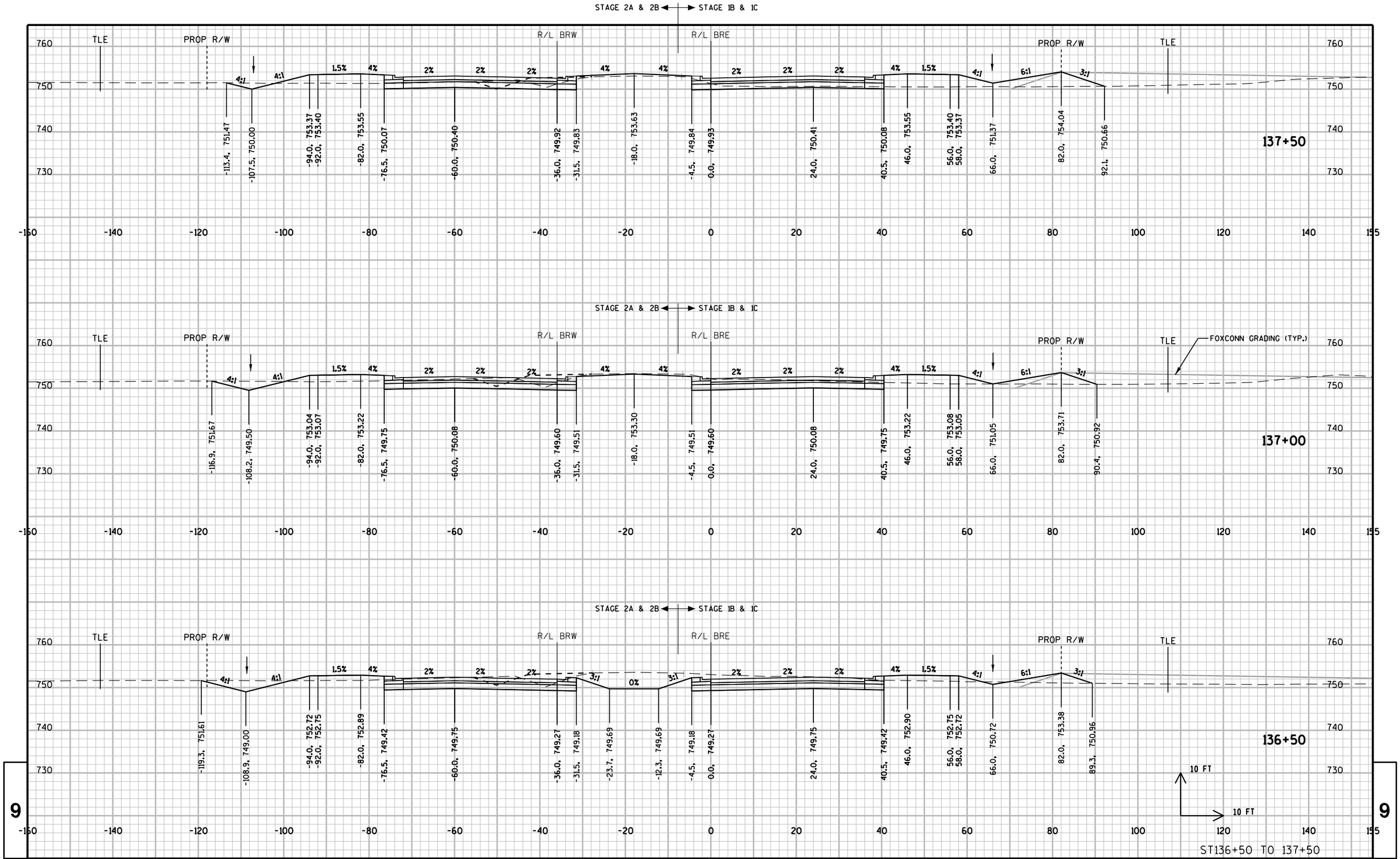
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ST135+00 TO 136+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 596	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN\18x28\2704090_xs_BRE.dgn PLOT BY : dkarasek PLOT DATE : 18:28 PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

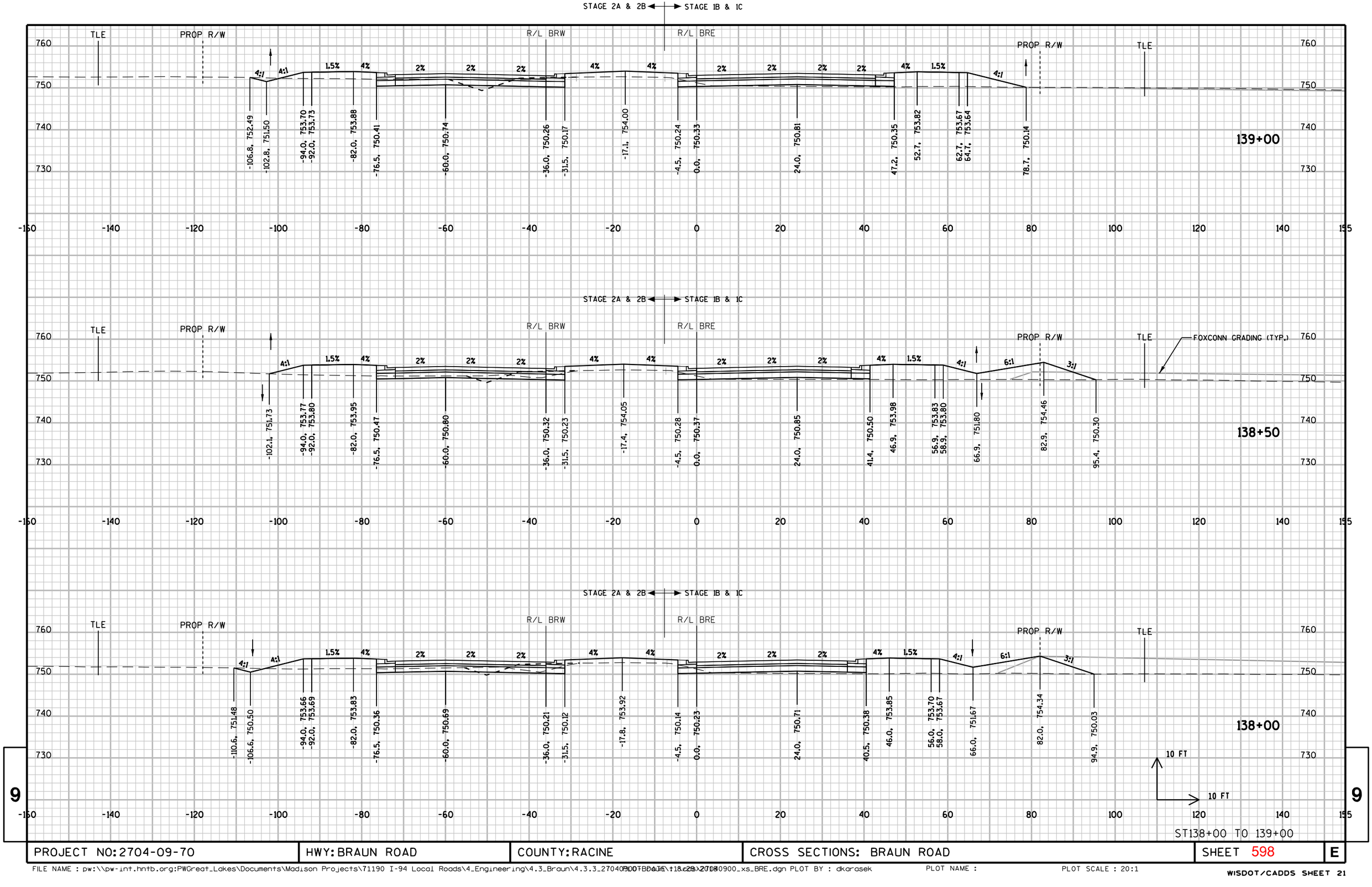
9

ST136+50 TO 137+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 597	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\18x28\2704090_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

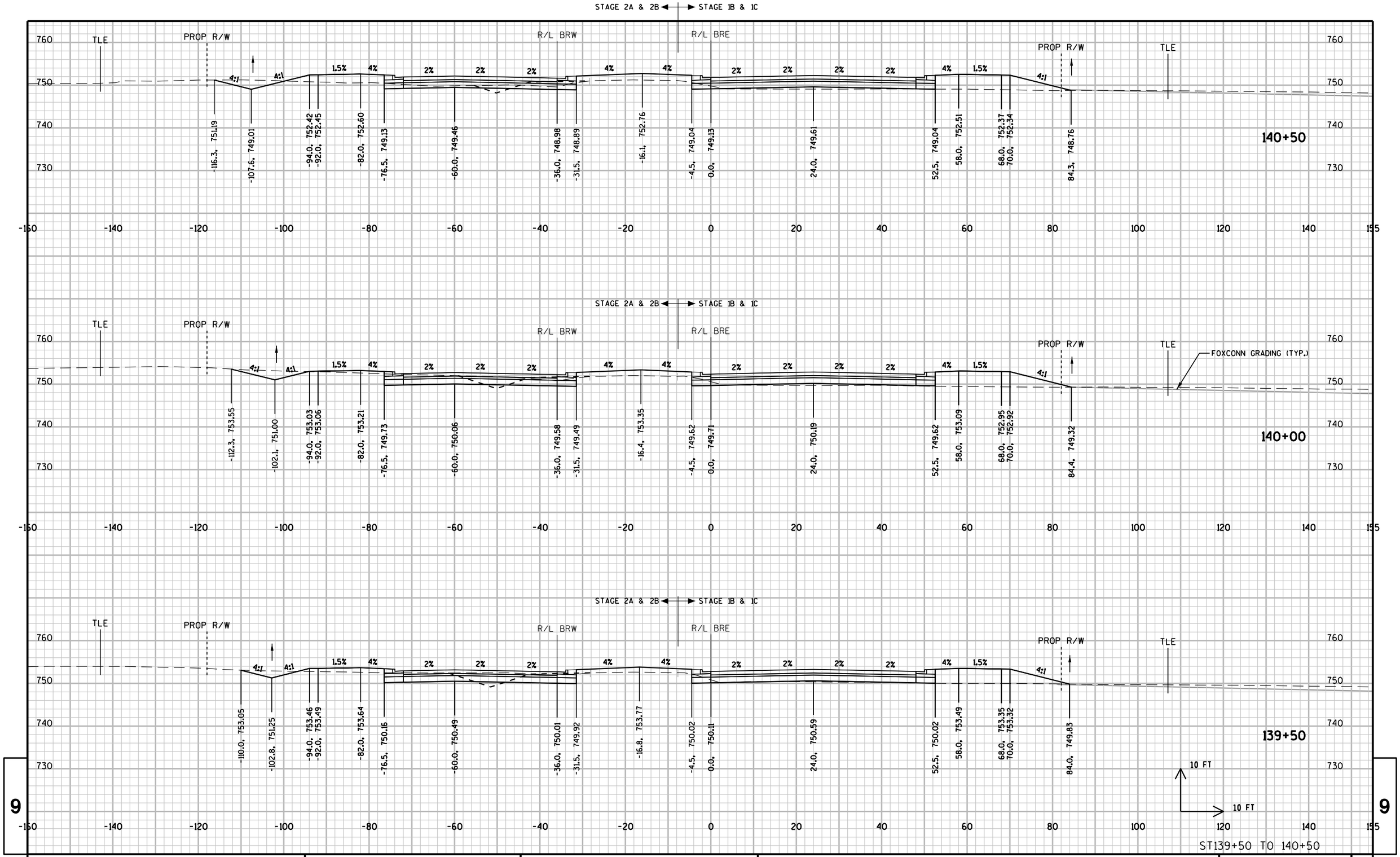
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ST138+00 TO 139+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 598	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD\[illegible]\2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

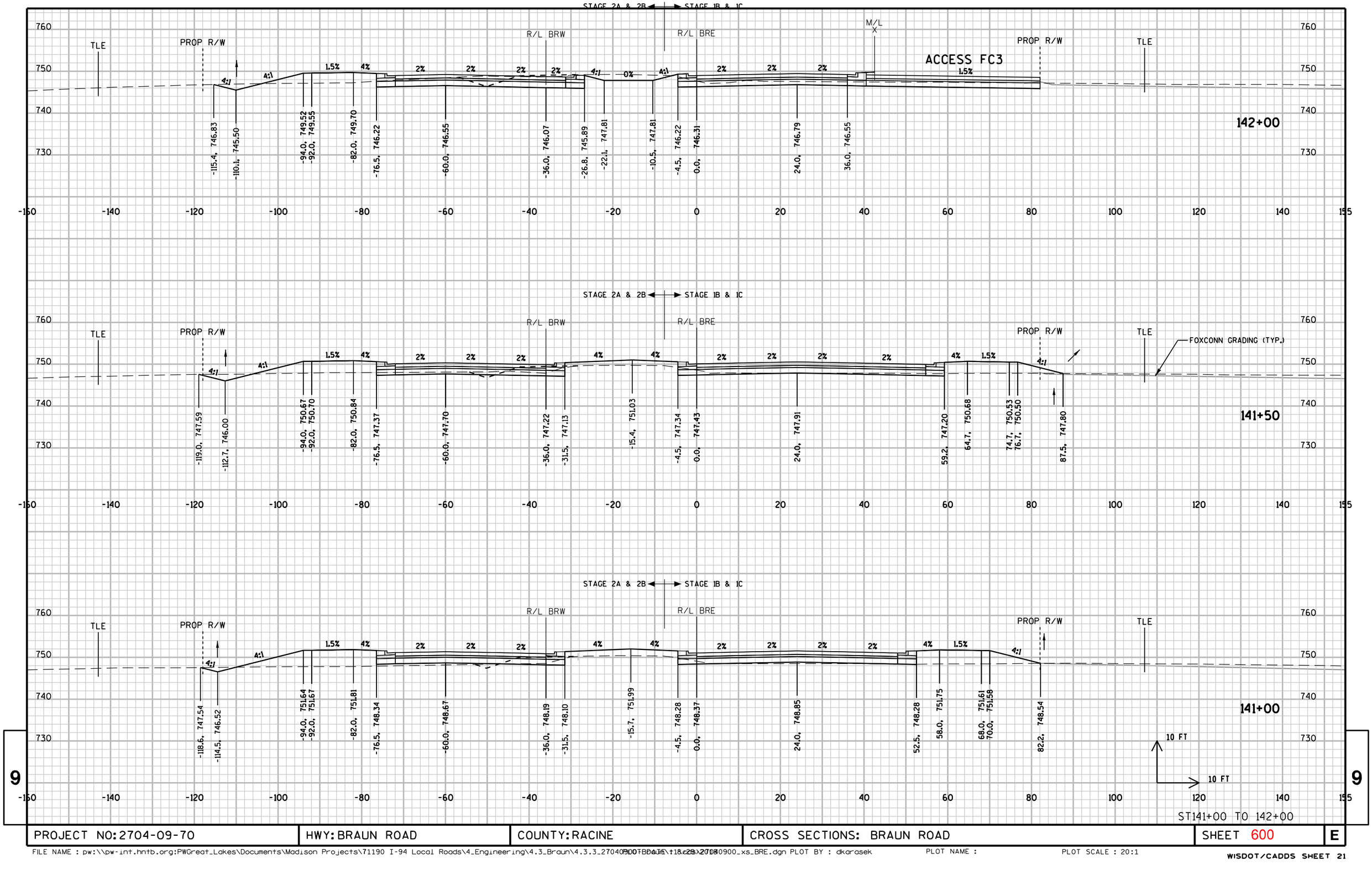
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ST139+50 TO 140+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 599	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\18x28\2704090_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

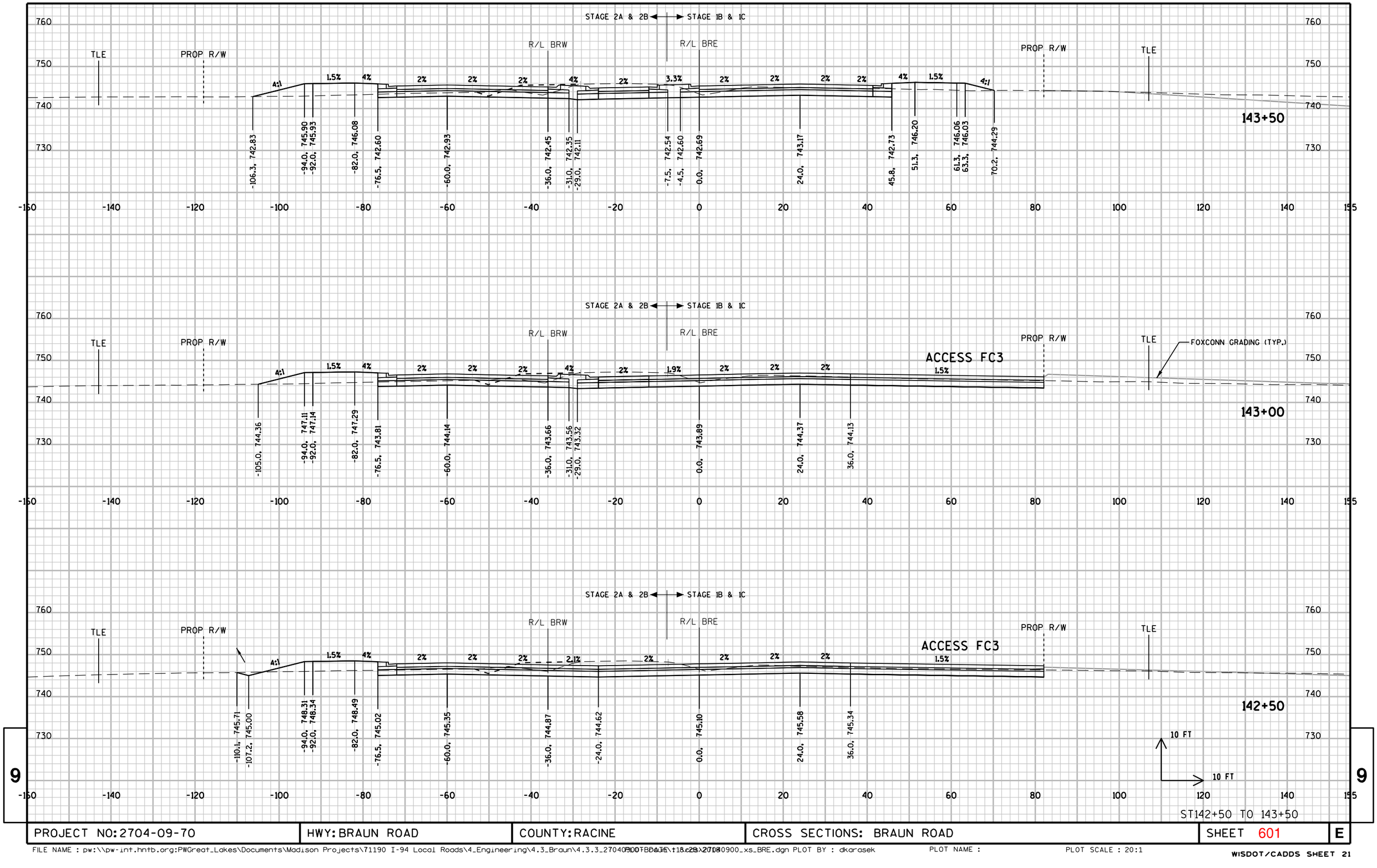
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ST141+00 TO 142+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 600	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090070_BRAUN\t18.28x20180900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



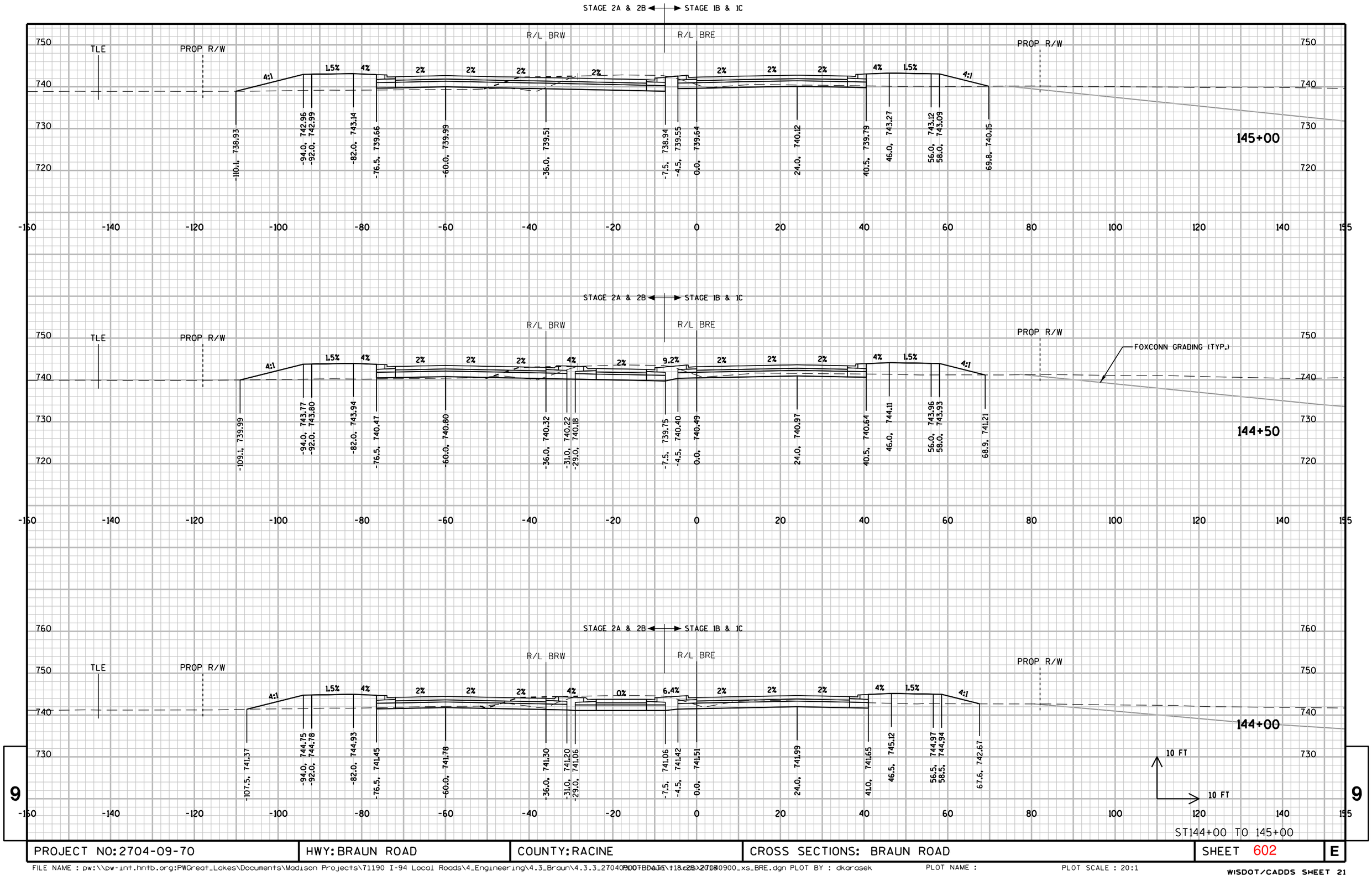
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9

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 601	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN\t18.28\2704090_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



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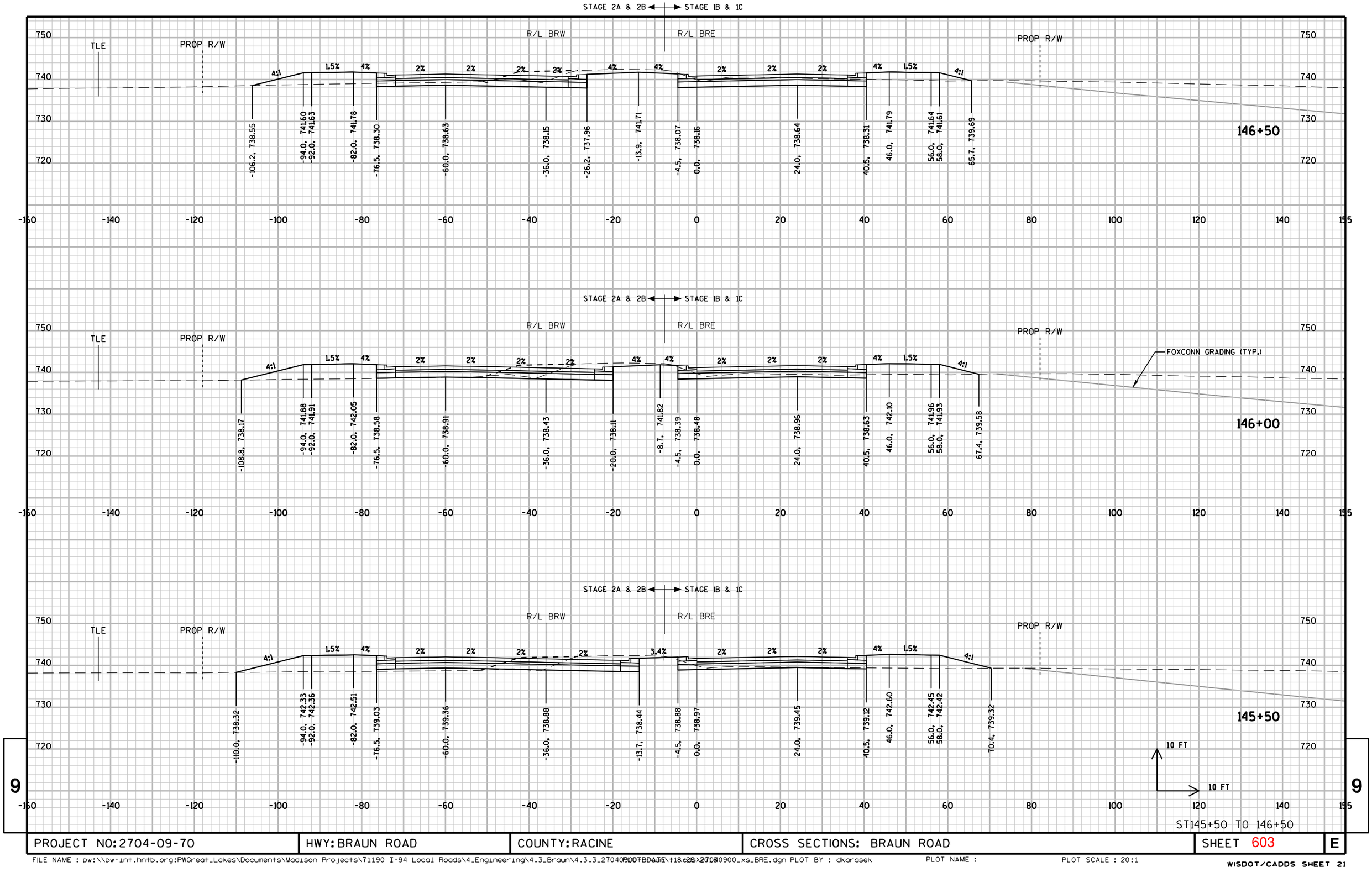
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PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 602	E

ST144+00 TO 145+00

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_PLOT_BRAUN_18x28_2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

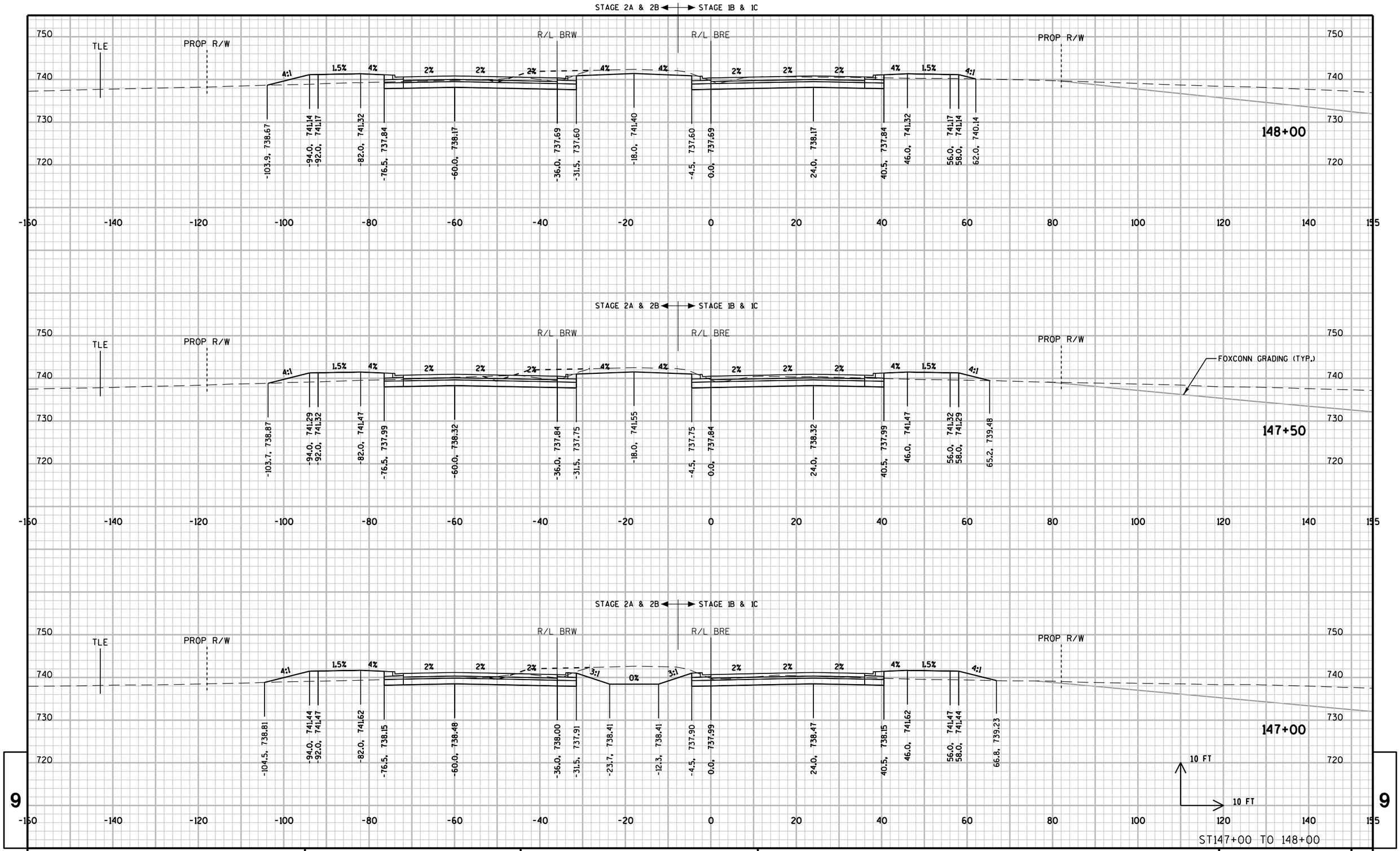
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ST145+50 TO 146+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 603	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\18x28x2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

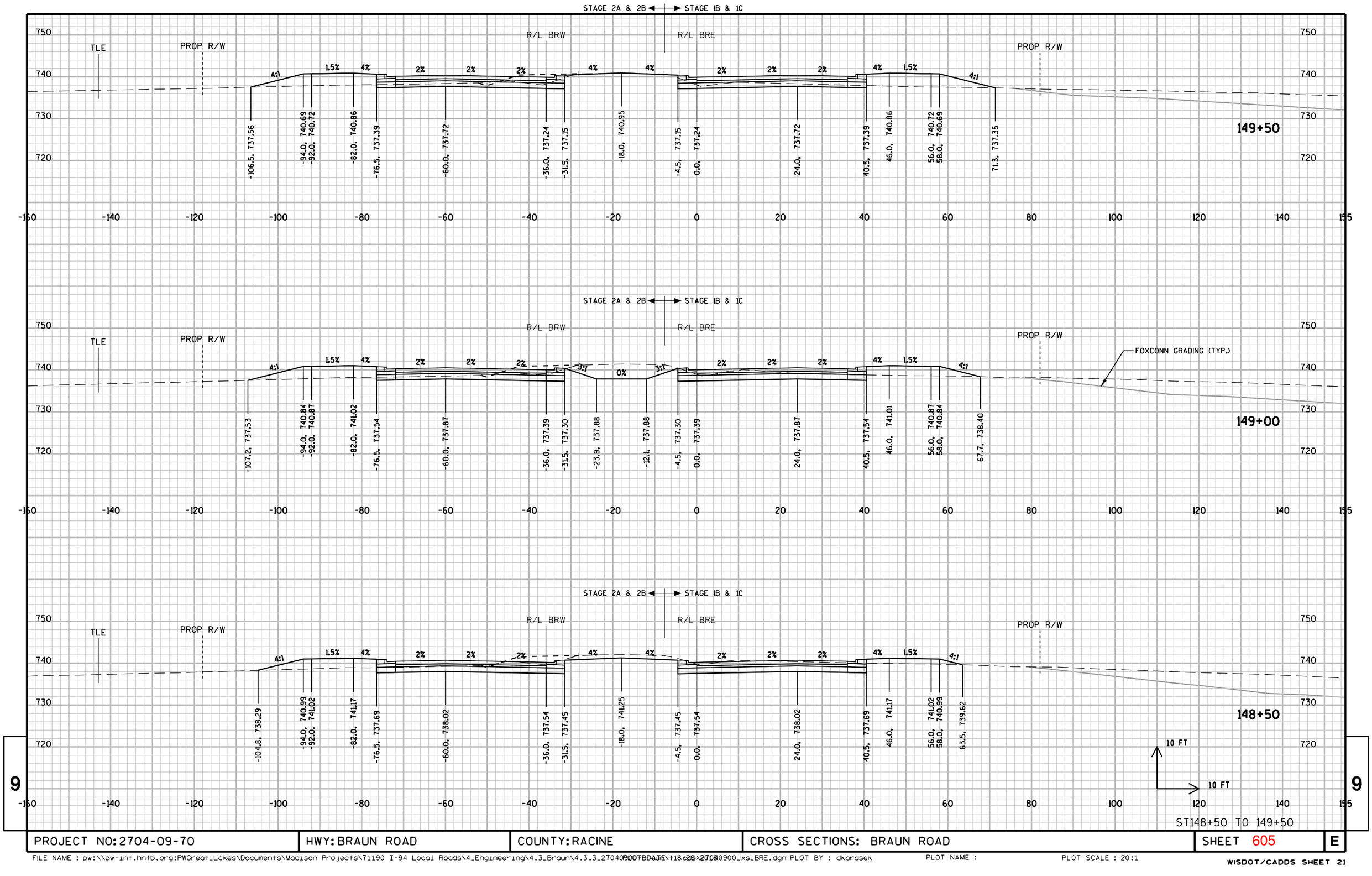
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ST147+00 TO 148+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 604	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\18x28x2704090900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

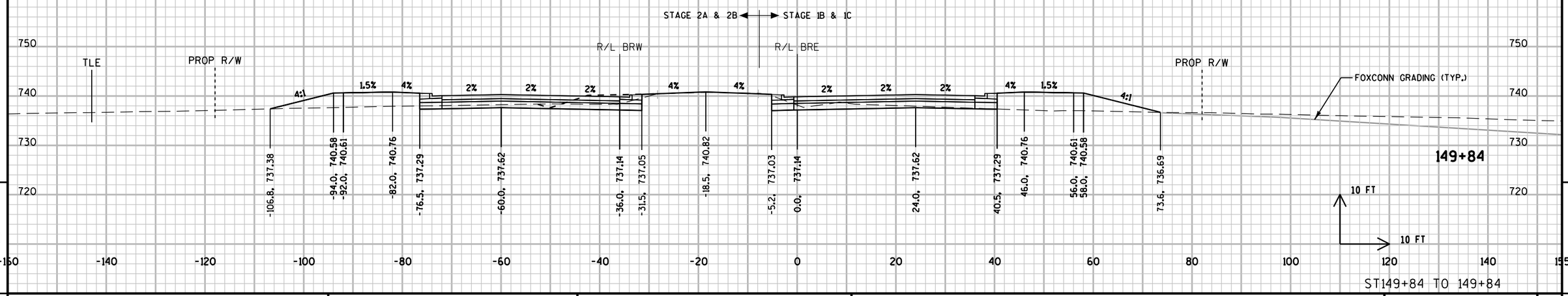
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ST148+50 TO 149+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 605	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN\18x28\2704090_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



ST149+84 TO 149+84

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 606	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_270409000_BRAUN\plots\18x28x270409000_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

STAGE 2A & 2B ◄——► STAGE 1B & 1C

STAGE 1B & 1C
PLACE ASPHALT PAVEMENT TO 28.5' LT.
STA. 150BRT+70 TO 153BRE+55
BUTT JOINT - STA. 150BRT+70 TO 150BRT+95

R/L BRT
R/L BRE
PROP R/W
TLE
3.5:1
2%
4:1
-54.0, 737.24
-51.6, 737.90
-28.1, 738.35
-8.1, 738.35
29.1, 737.61
34.0, 738.84

151+00

STAGE 2A & 2B ◄——► STAGE 1B & 1C

R/L BRT
R/L BRE
PROP R/W
TLE
4:1
0%
10:1
0.5%
-58.7, 737.23
-56.0, 737.89
-18.3, 739.14
-9.6, 739.9
32.8, 737.64
34.0, 737.35
72.9, 737.16

150+50

STAGE 1C
STA. 150BRE+00.00, 10.00' LT.
TEMPORARY MEDIAN INLET 1
GRATE = 739.67
INVERT = 735.73

STAGE 2A & 2B ◄——► STAGE 1B & 1C

R/L BRT
R/L BRE
PROP R/W
TLE
4:1
2%
6%
3:1
-69.8, 737.87
-68.9, 738.09
-23.5, 737.18
-18.5, 738.82 (STAGE 2)
-12.5, 737.18
-0.0, 737.43
24.0, 737.91
48.5, 737.42
49.8, 737.10
67.3, 736.75

150+00

10 FT
10 FT

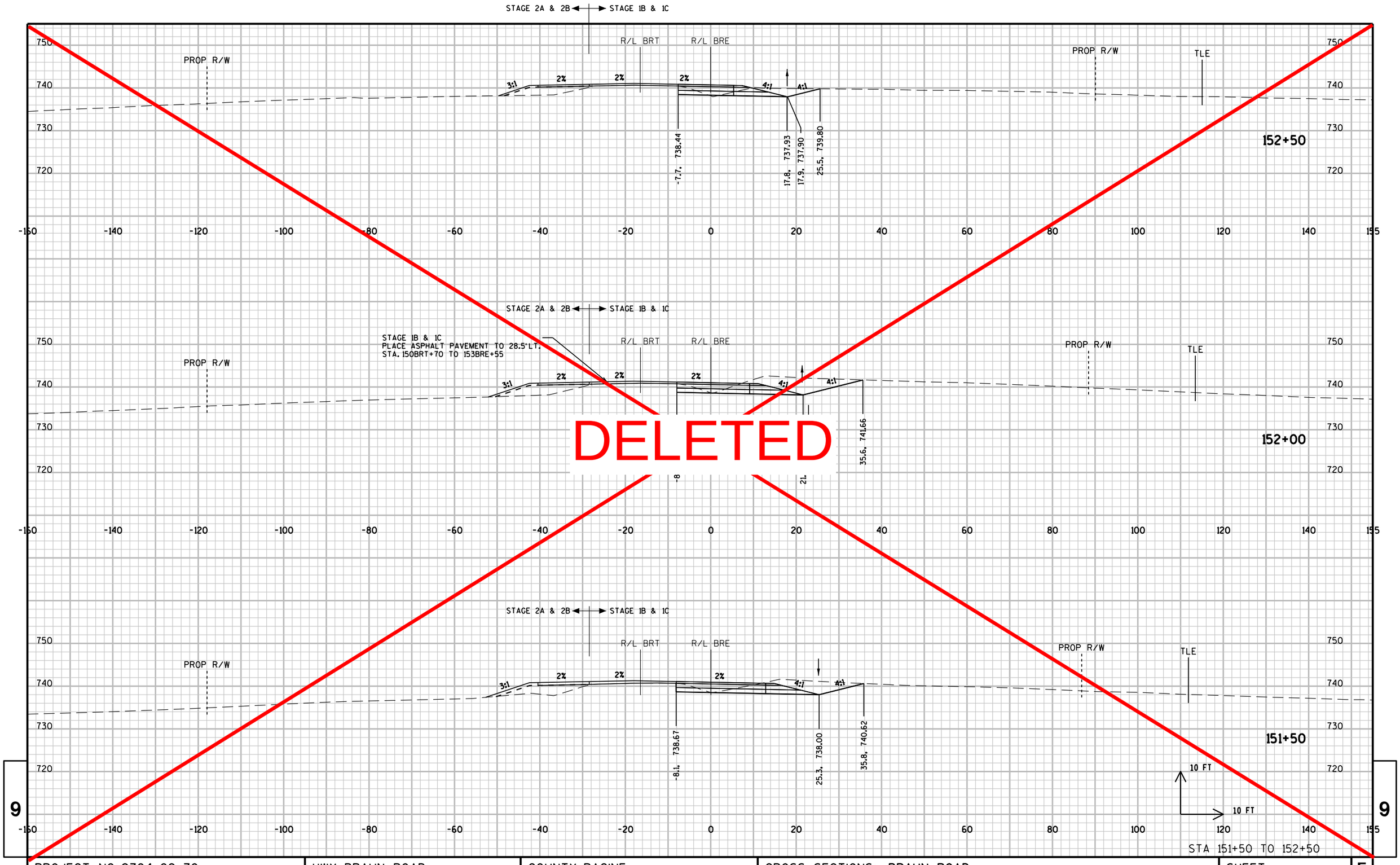
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STA 150+00 TO 151+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 607	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD_BRAUN_14x26x2708900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



DELETED

9

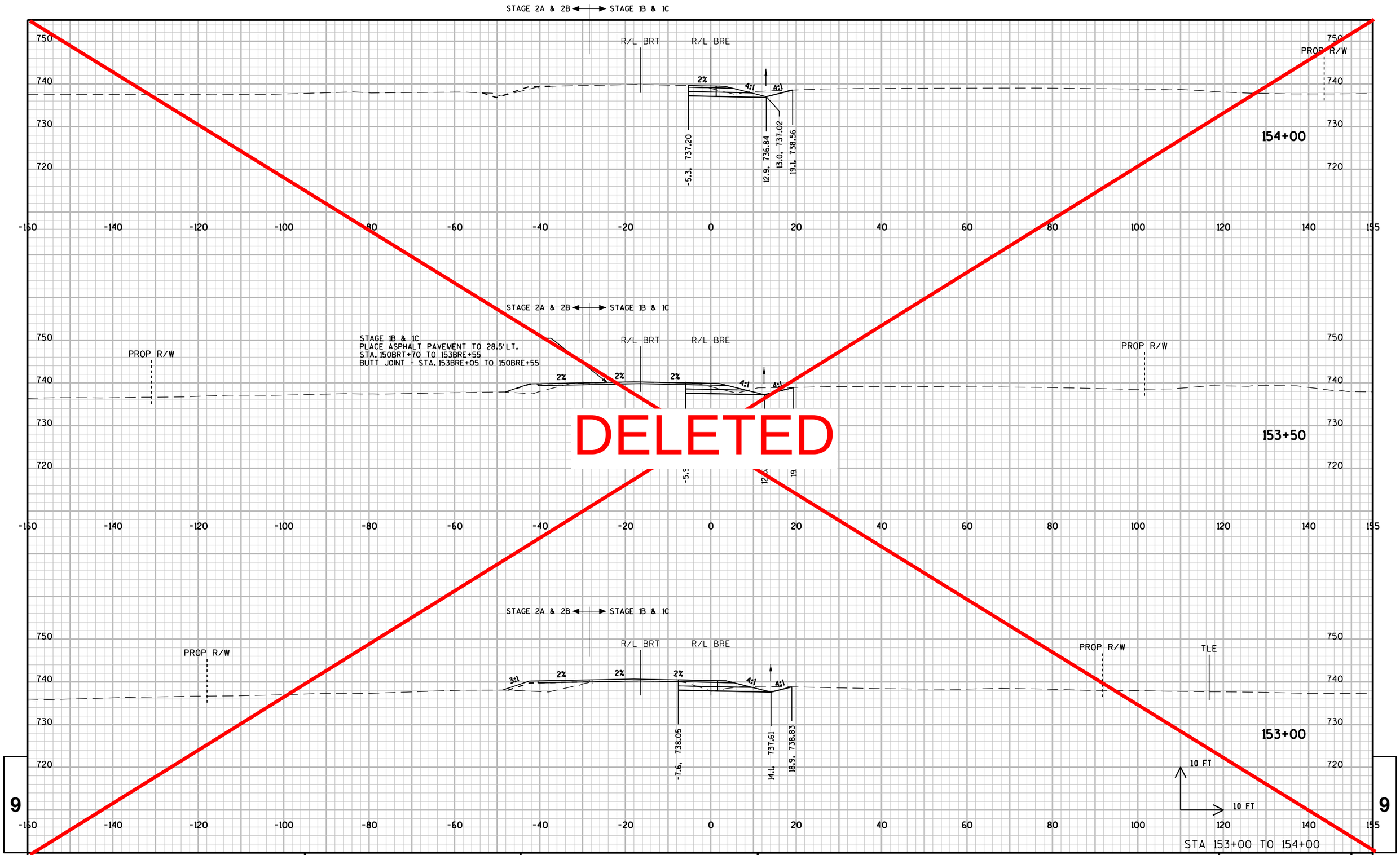
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STA 151+50 TO 152+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD\[illegible]\14_26x20_20200900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



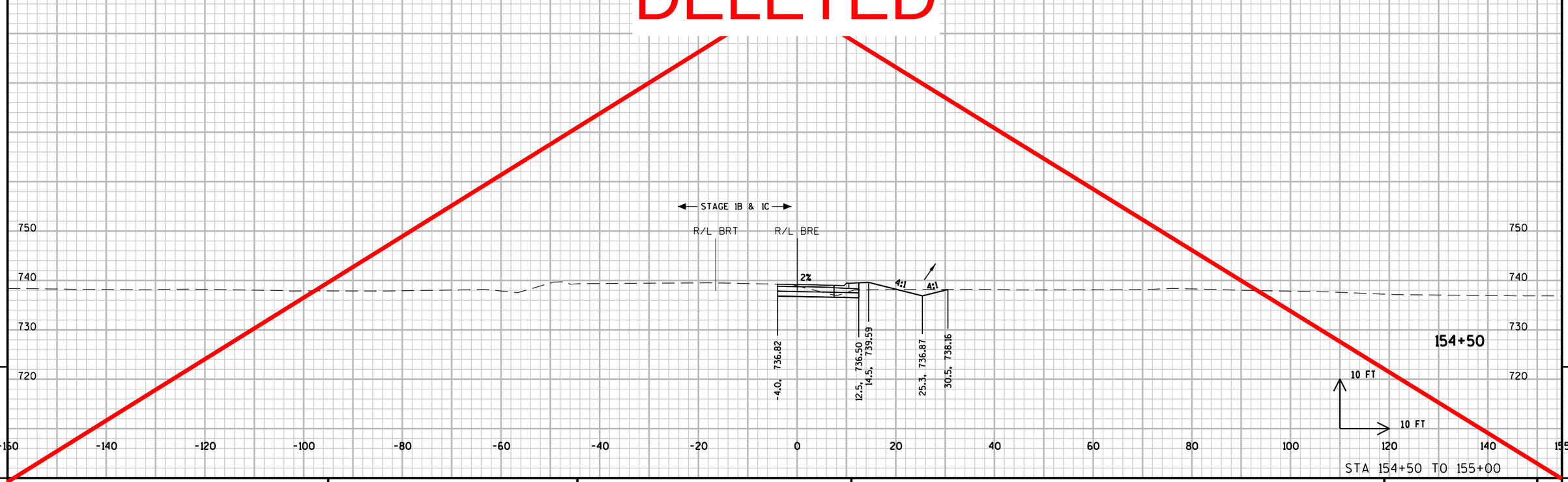
STA 153+00 TO 154+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 609	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD.dir\14.26x20.08_0900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

DELETED



STA 154+50 TO 155+00

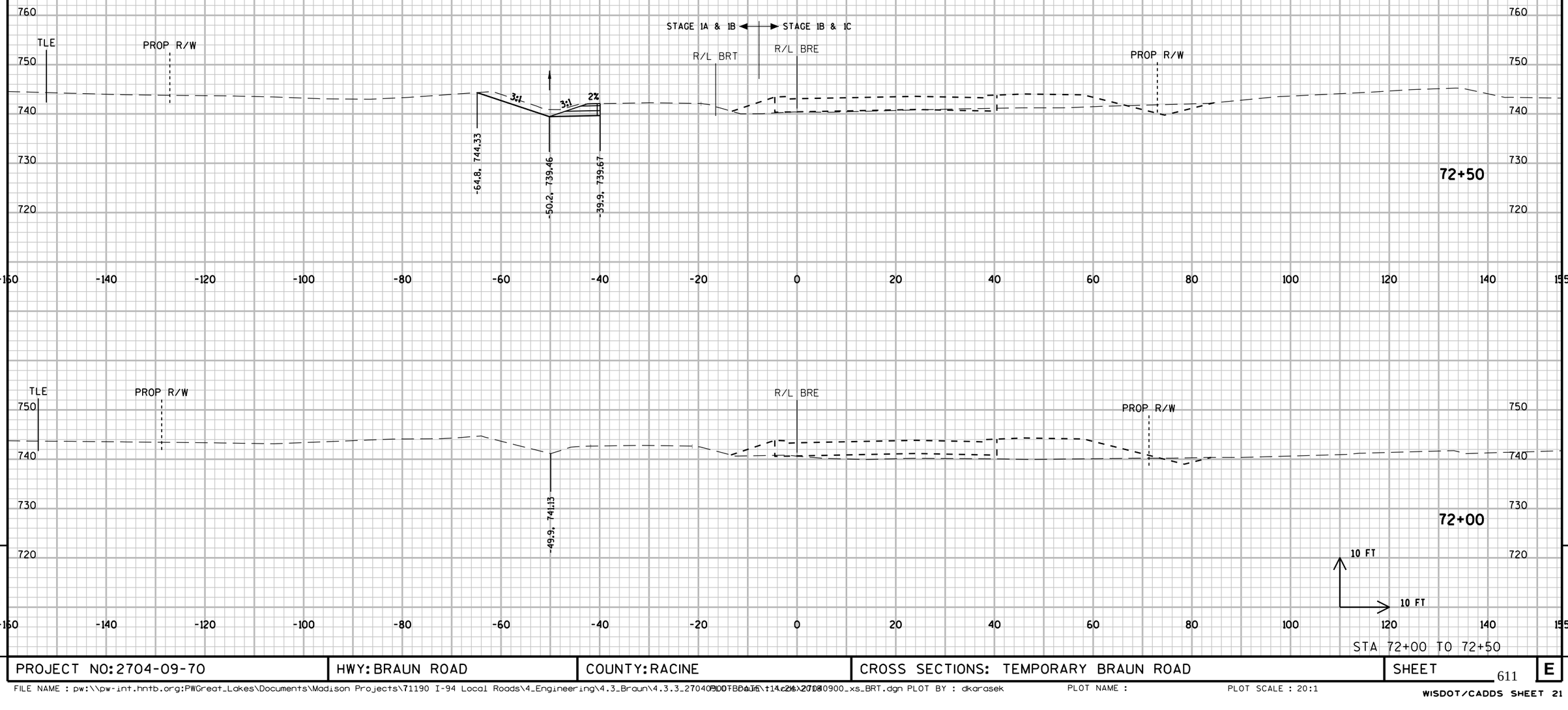
9

9

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 610	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\t14.26x27040900_xs_BRE.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

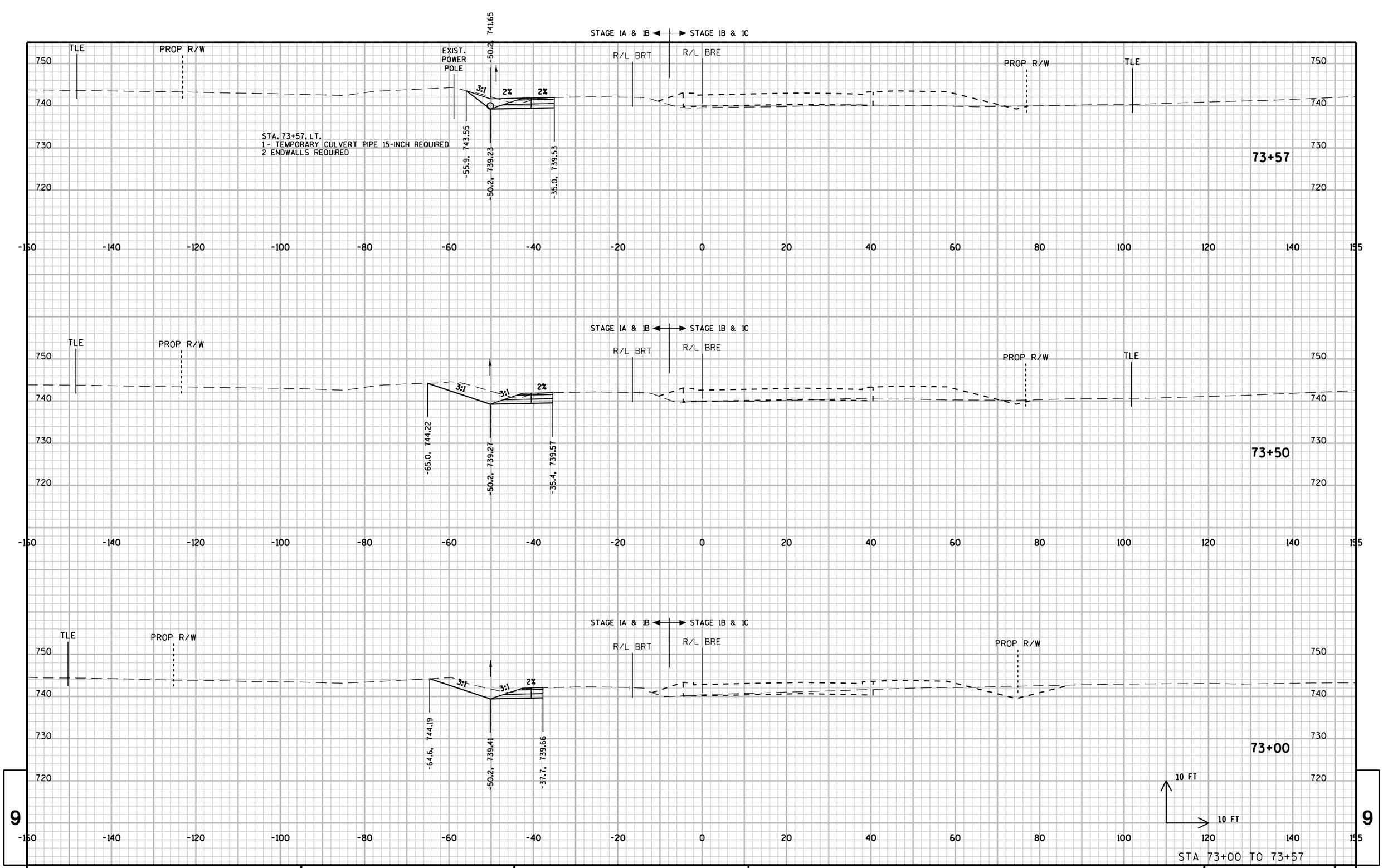
9

STA 72+00 TO 72+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD15\14.26x20\2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

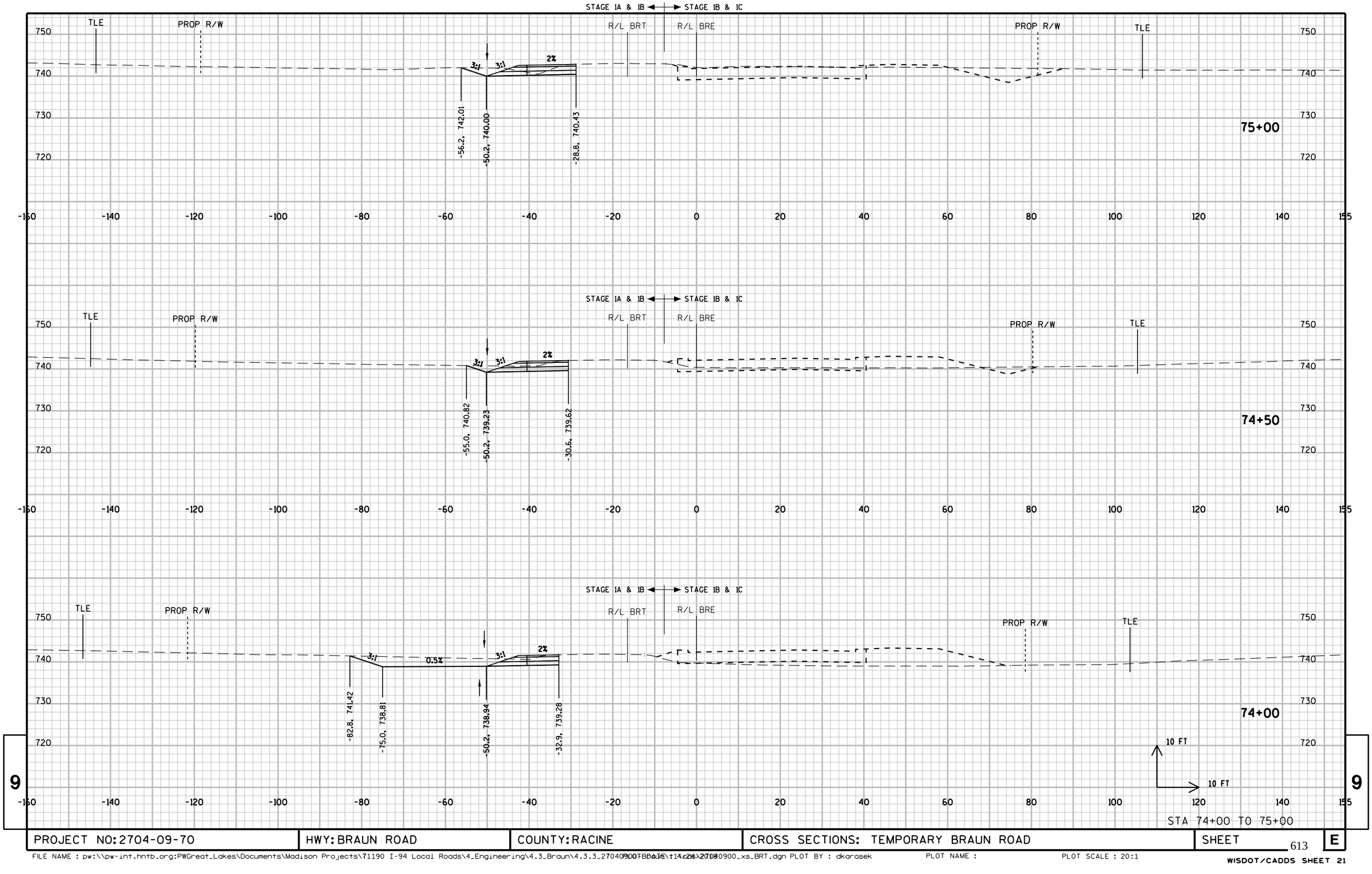
WISDOT/CADDS SHEET 21



STA 73+00 TO 73+57

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

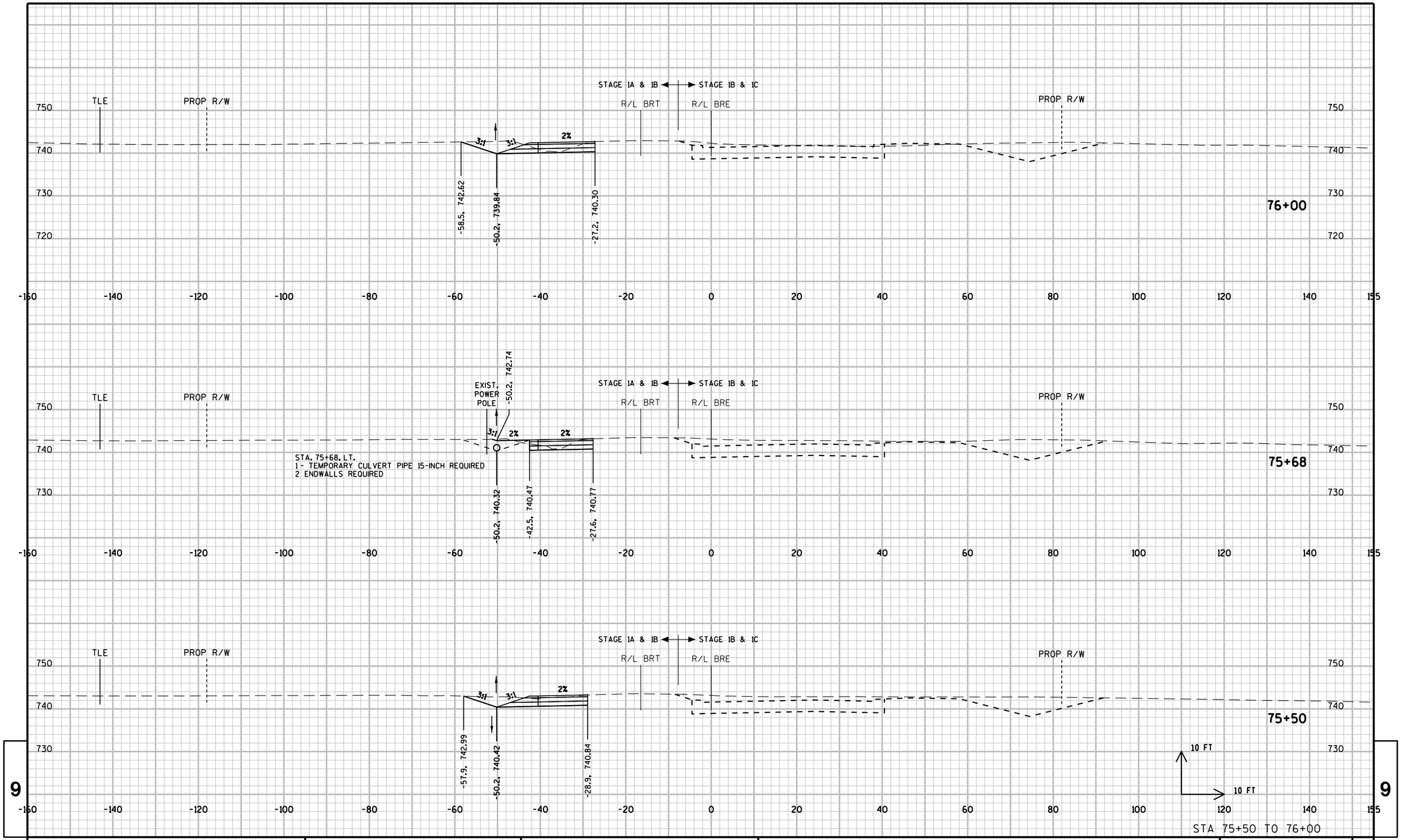
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\14.26x20.08\0900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



STA 74+00 TO 75+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TEMPBRAUN\11x26x2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



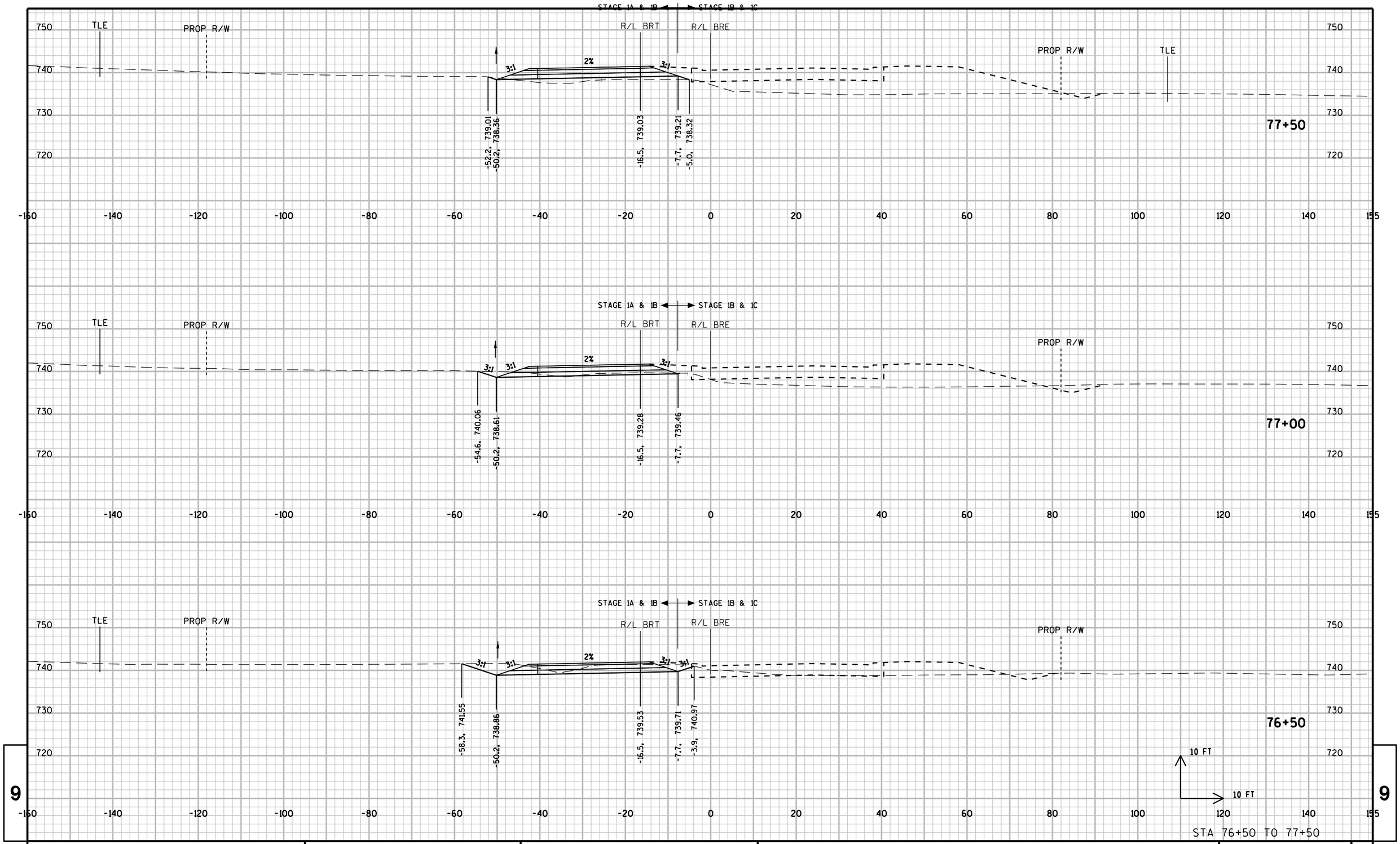
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9

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

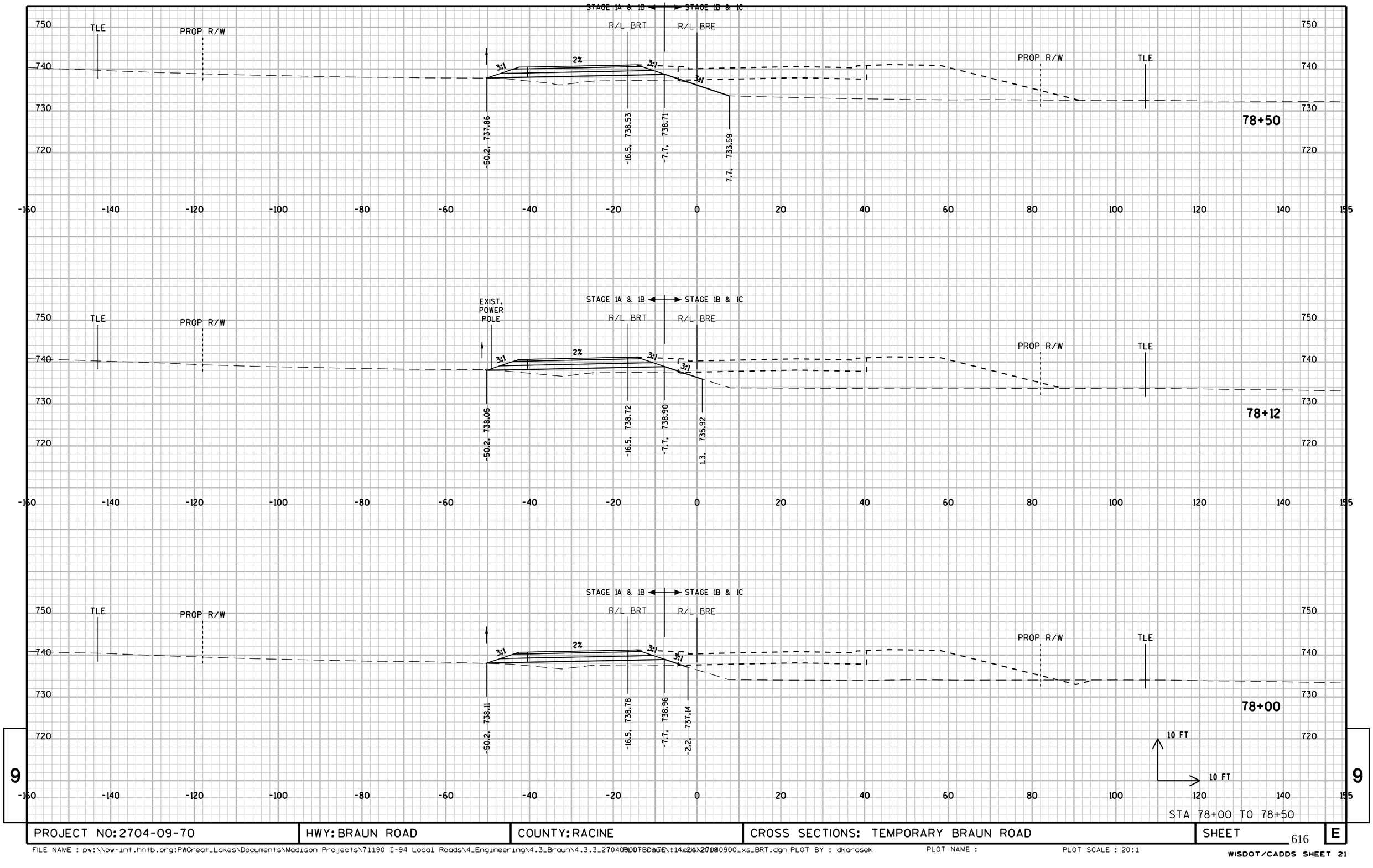
WISDOT/CADDS SHEET 21



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN_14x26x2708900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

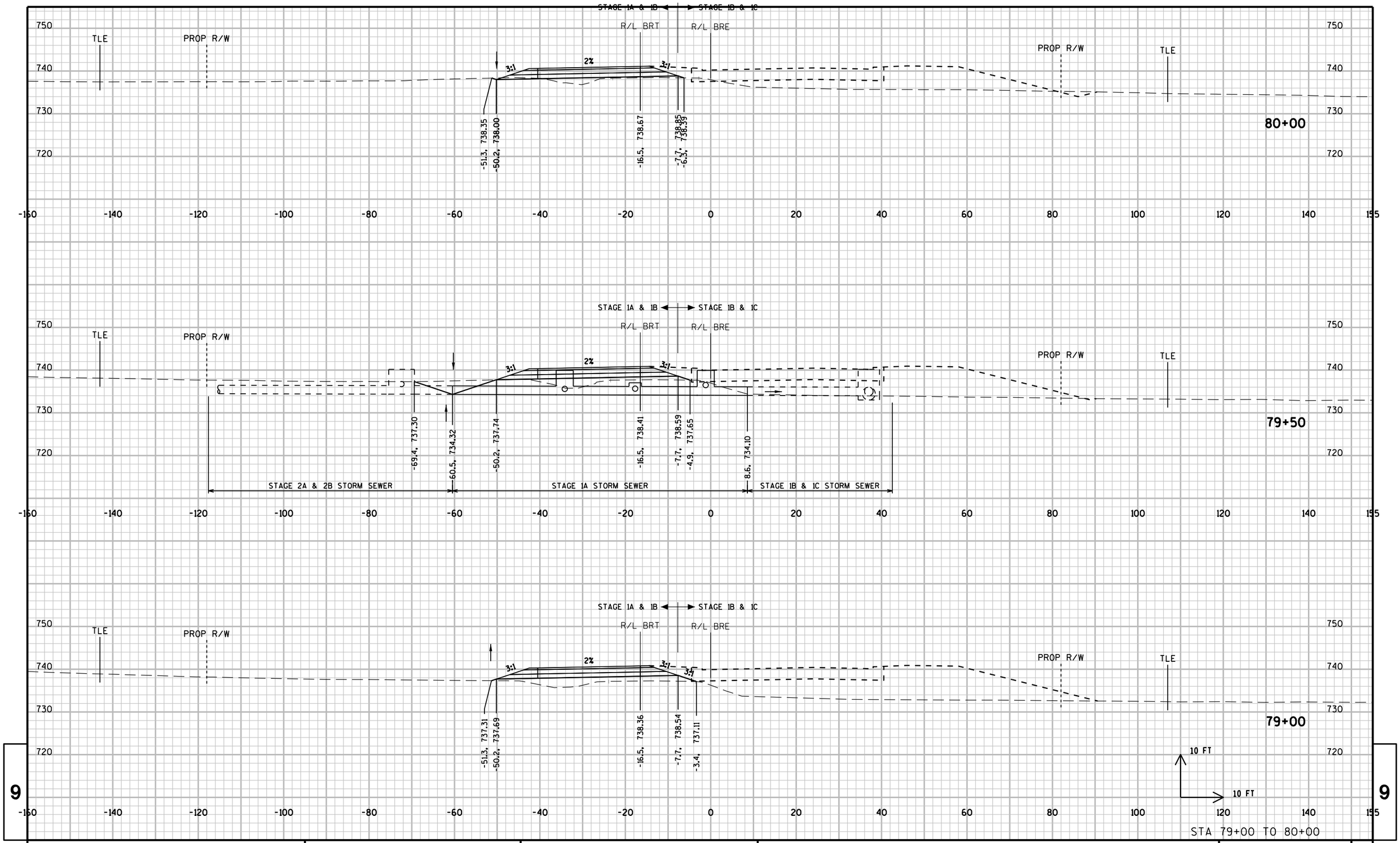


STA 78+00 TO 78+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 616	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090070_BRAUN\t14.26\2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



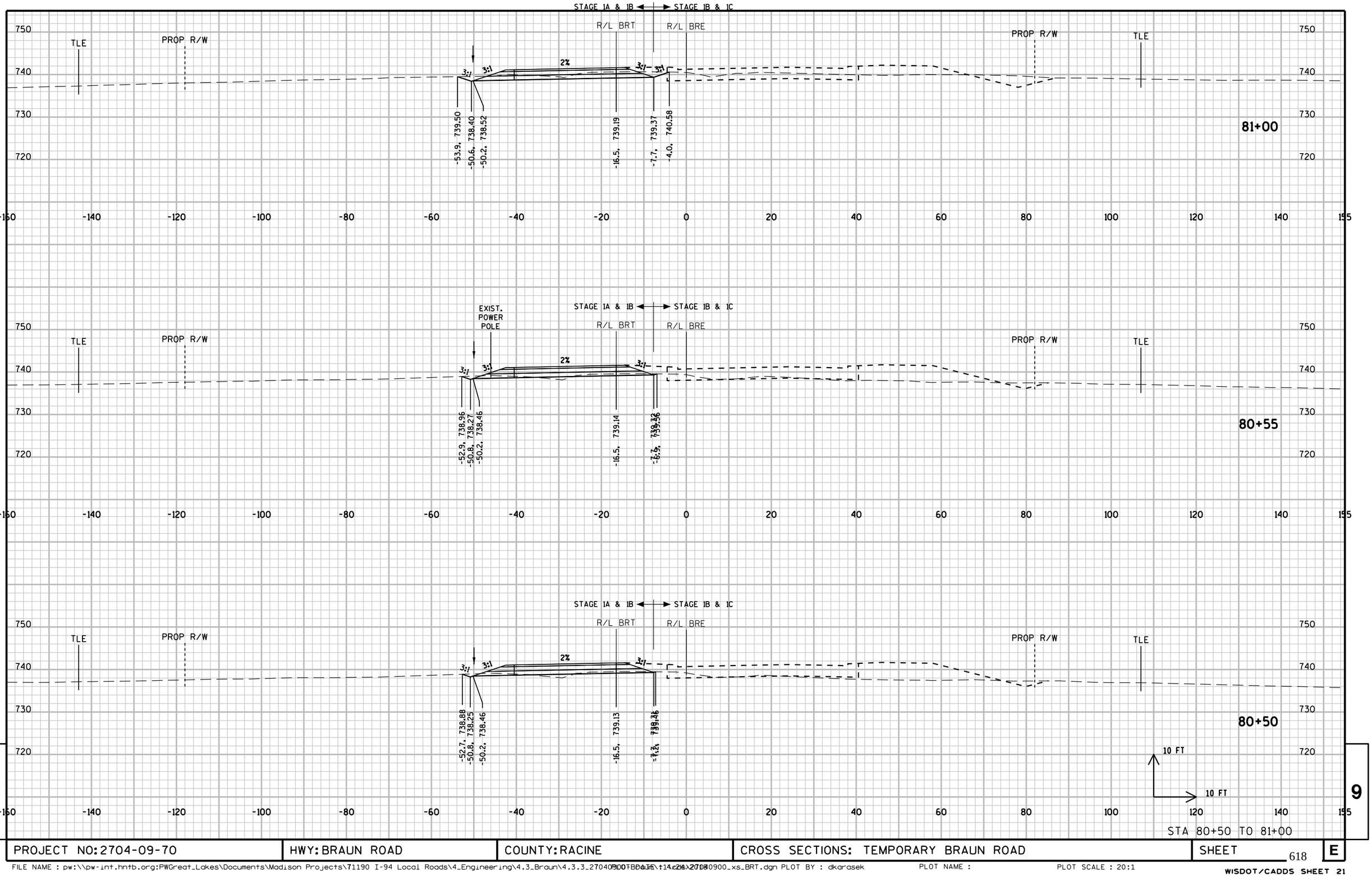
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9

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD\[1 [illegible] 27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

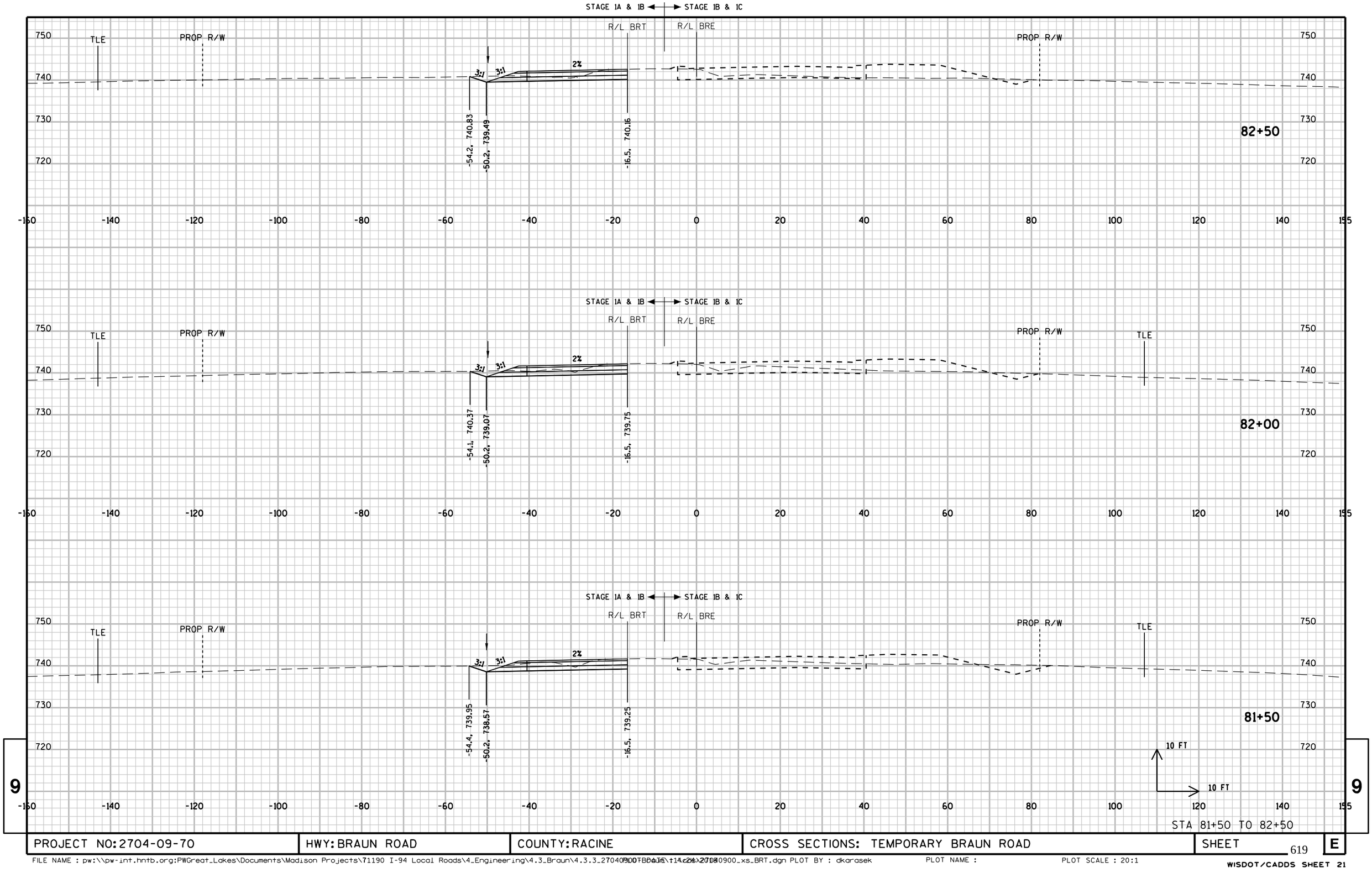


STA 80+50 TO 81+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090070_BRAUN\11x26\2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



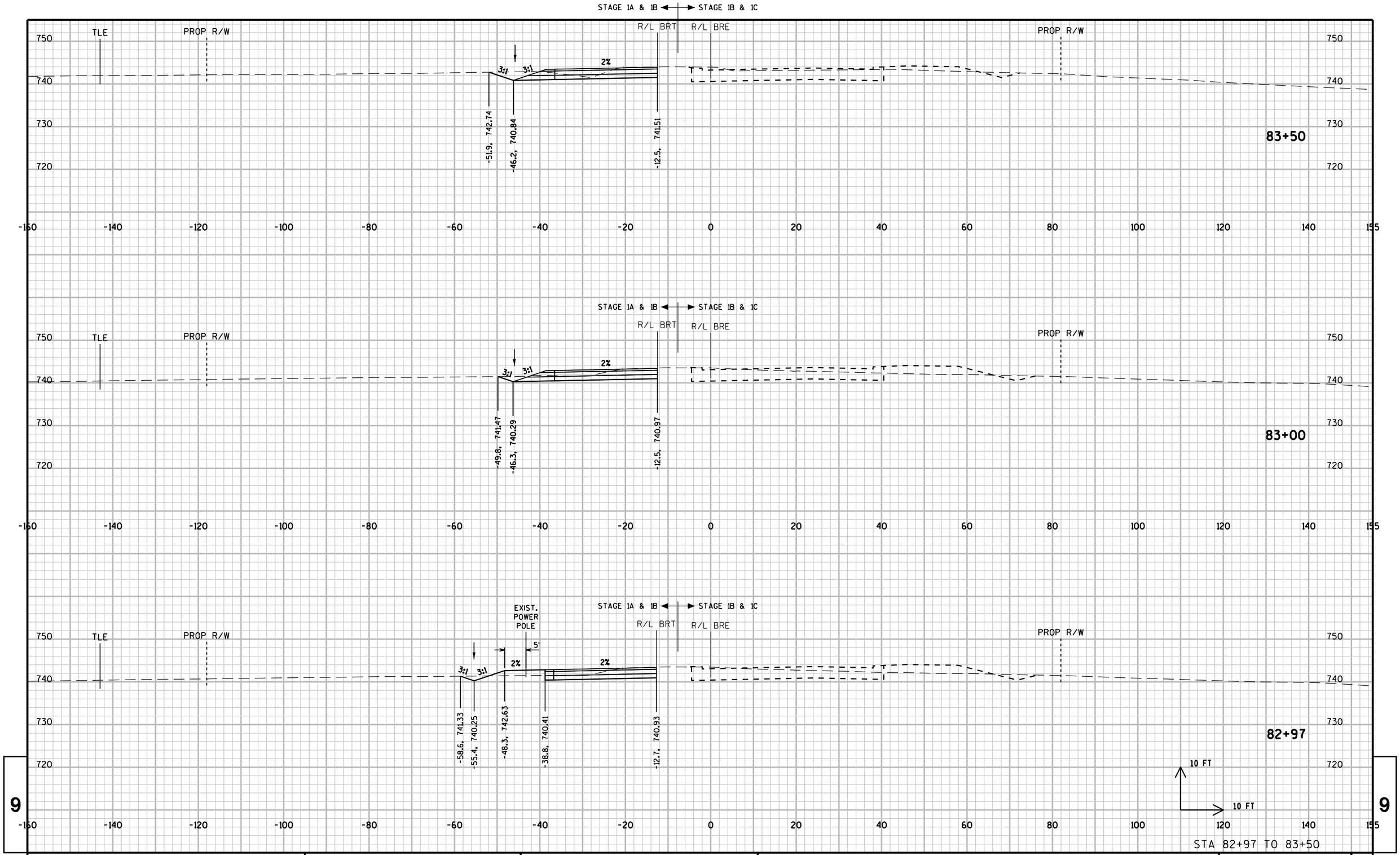
9

9

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090070_BRAUN\11x26\2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

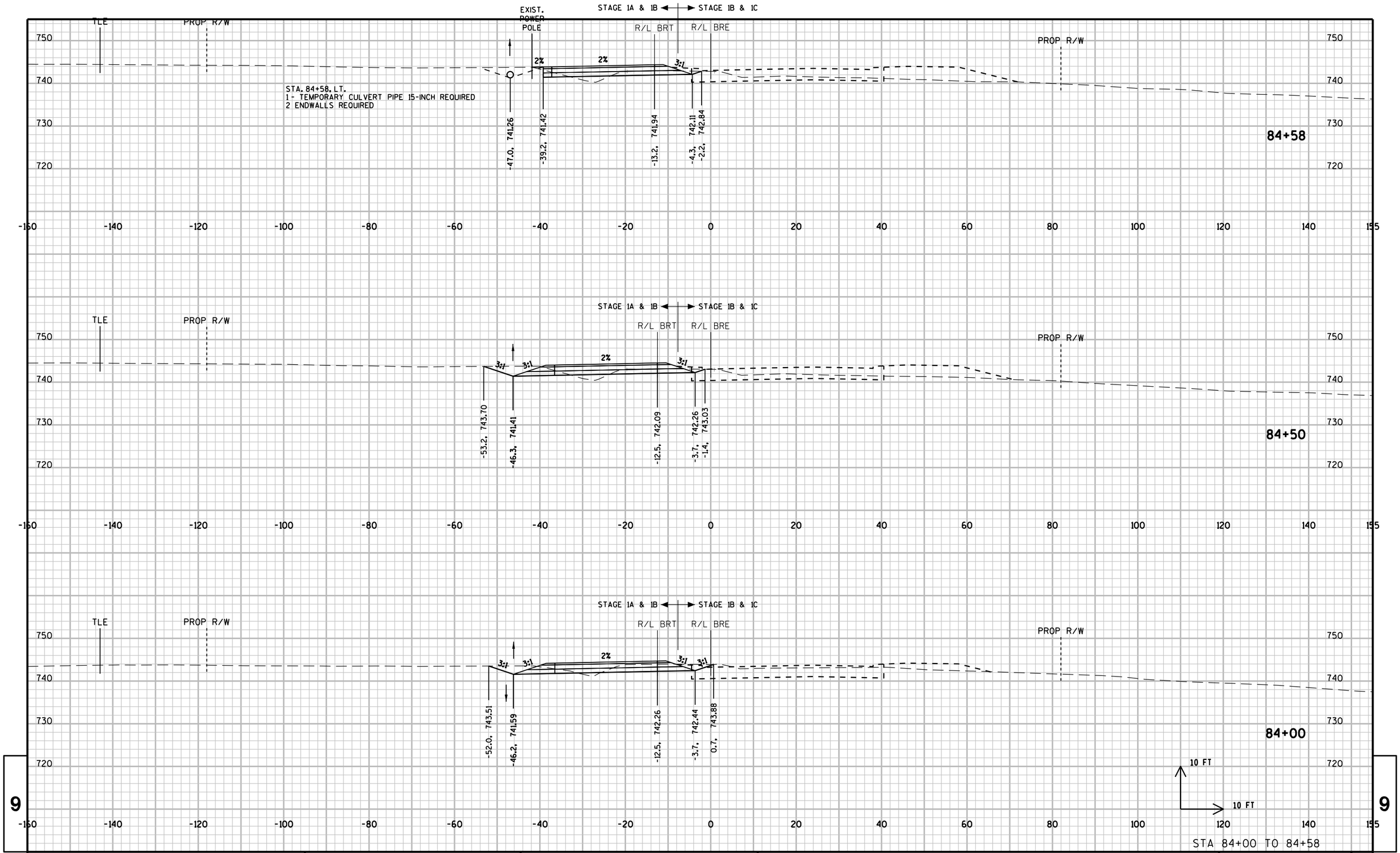
WISDOT/CADDS SHEET 21



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 620	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090070BD01\11x26\2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

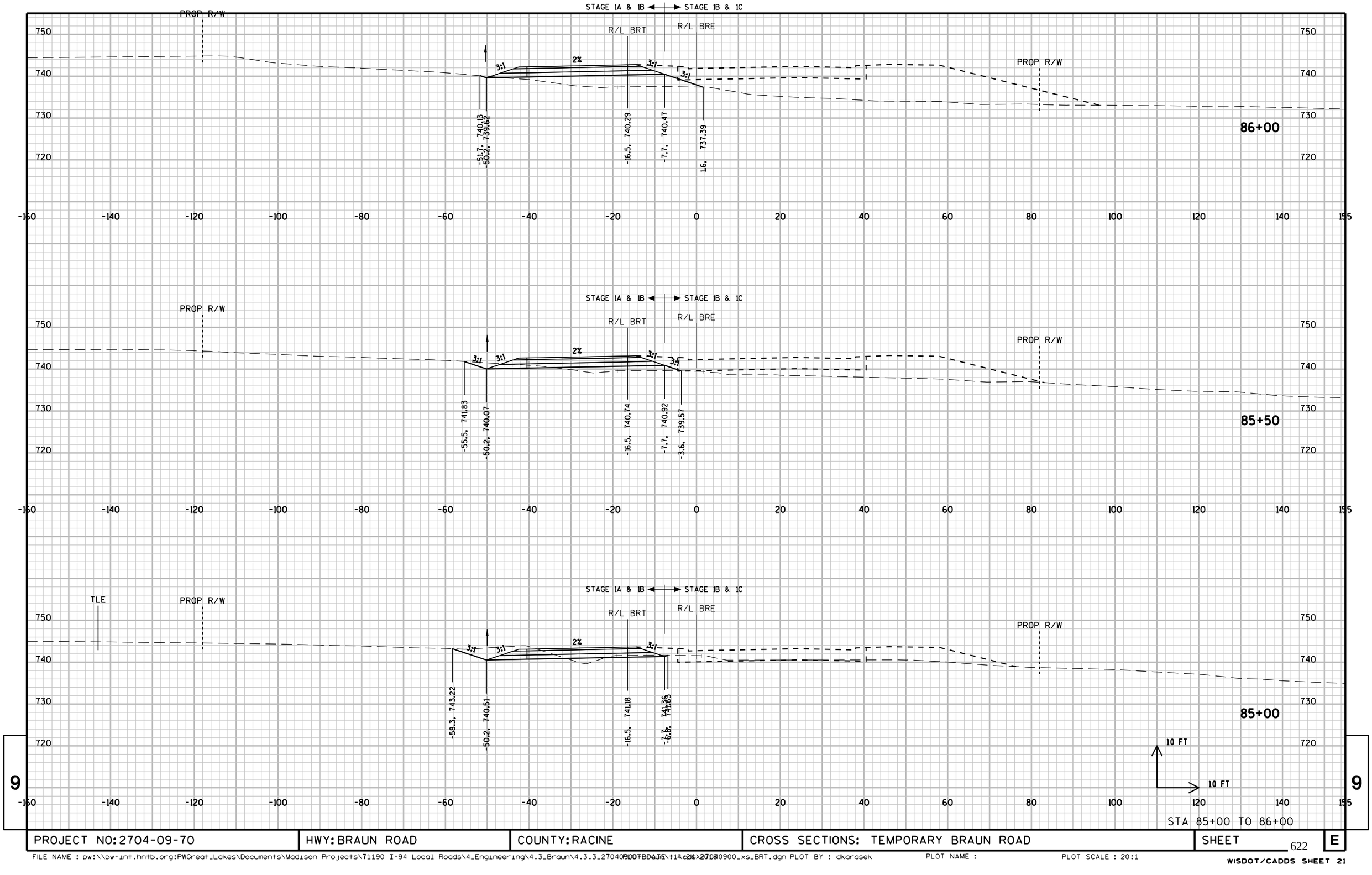
WISDOT/CADDS SHEET 21



STA 84+00 TO 84+58

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD\15\14_26\2704090_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



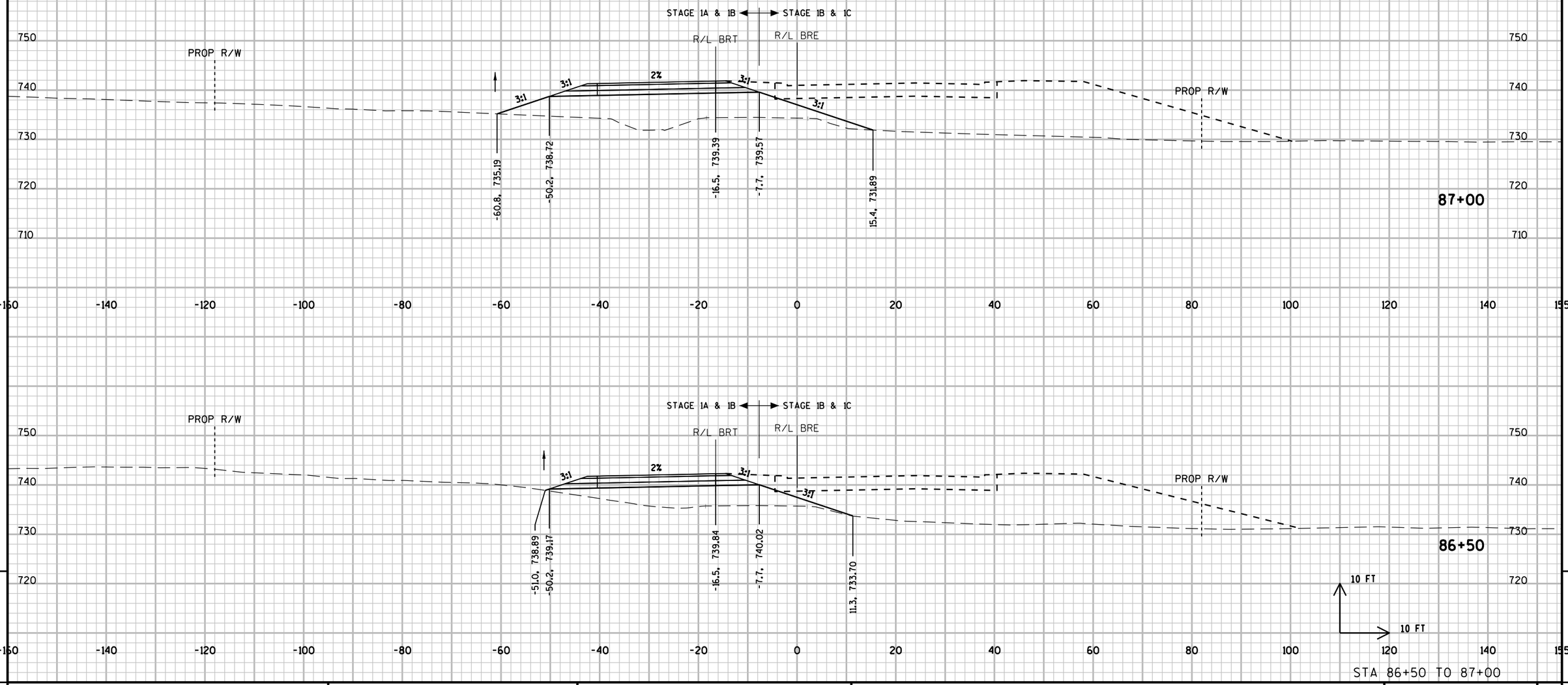
9

9

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD15_11x26x2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

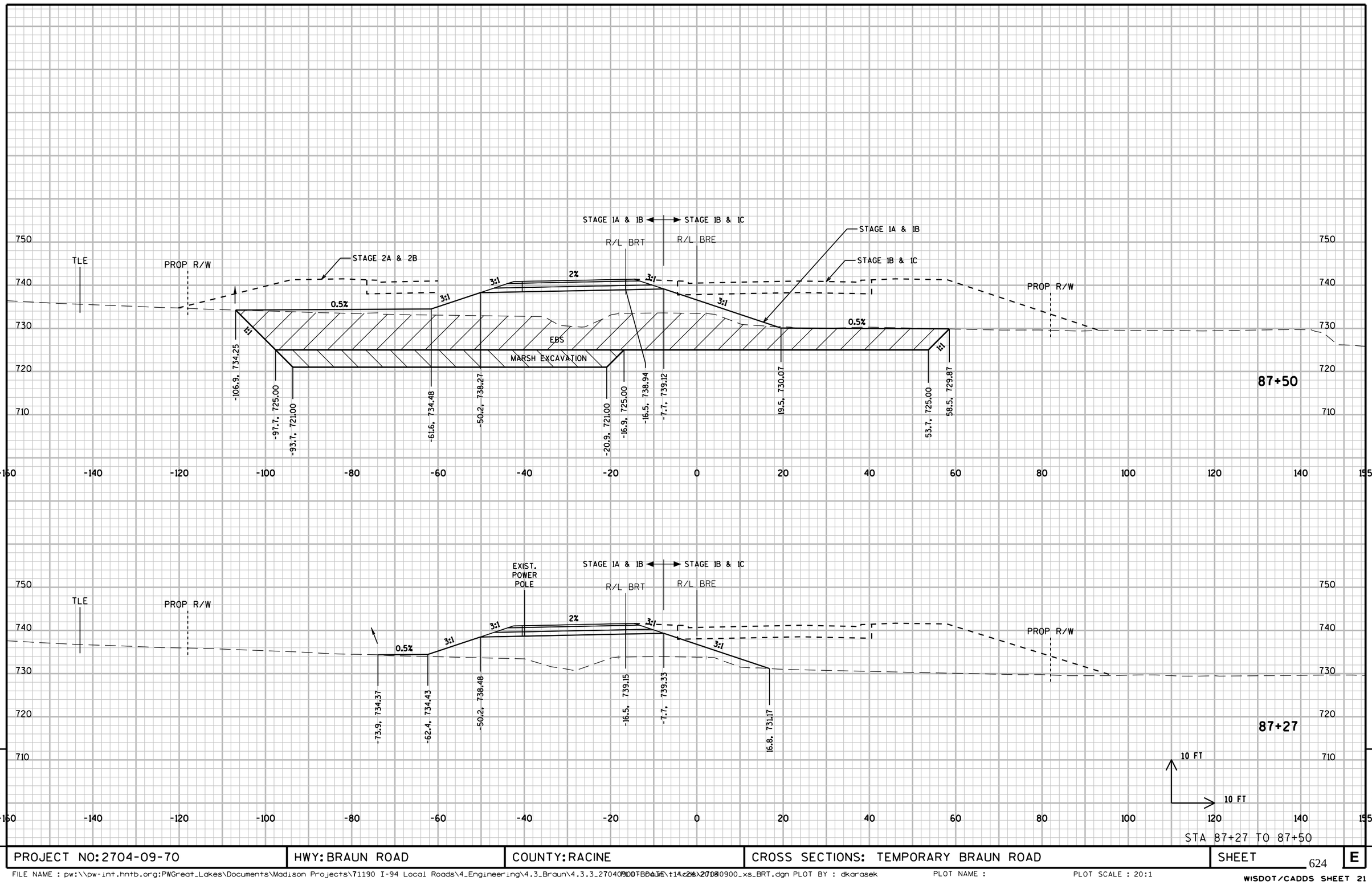


STA 86+50 TO 87+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 623	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\t14.26x27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

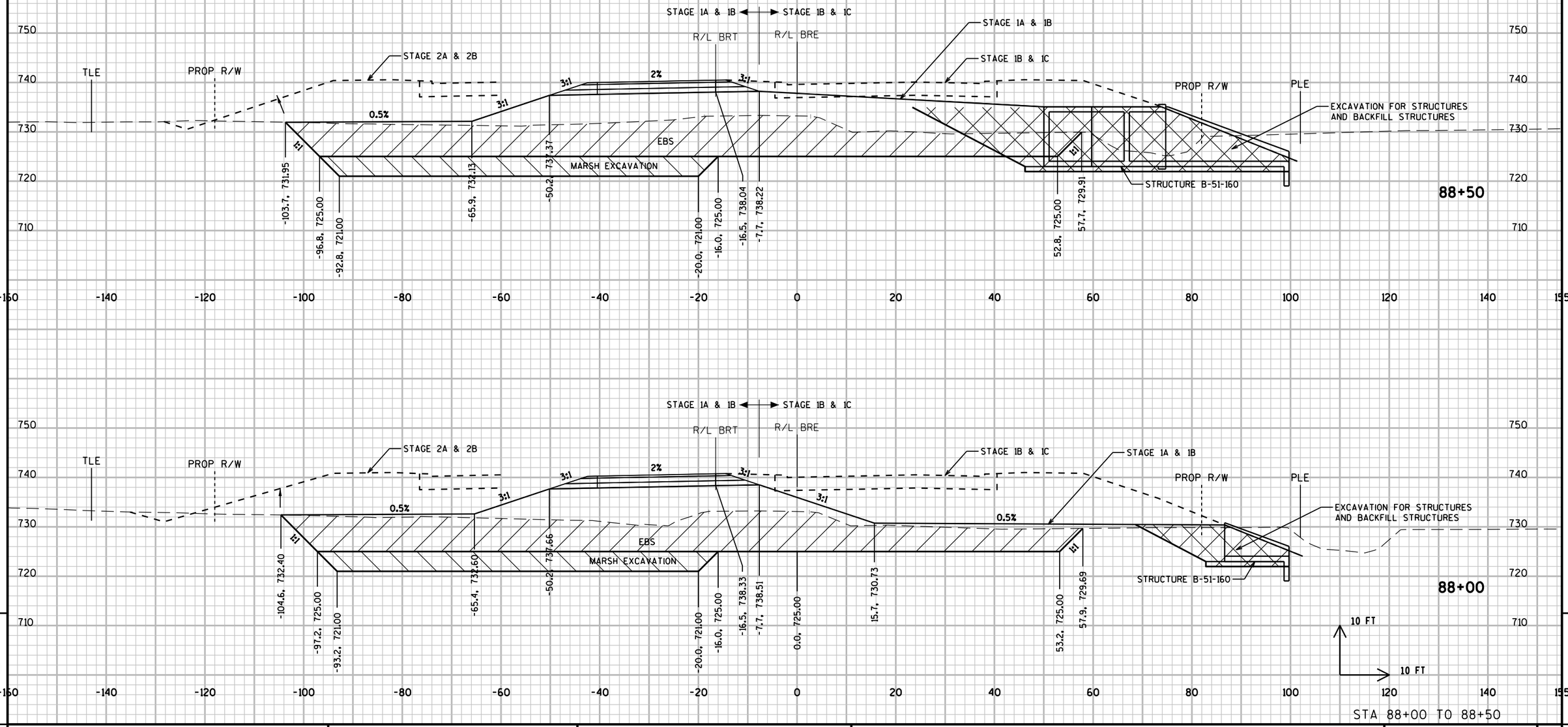
WISDOT/CADDS SHEET 21



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

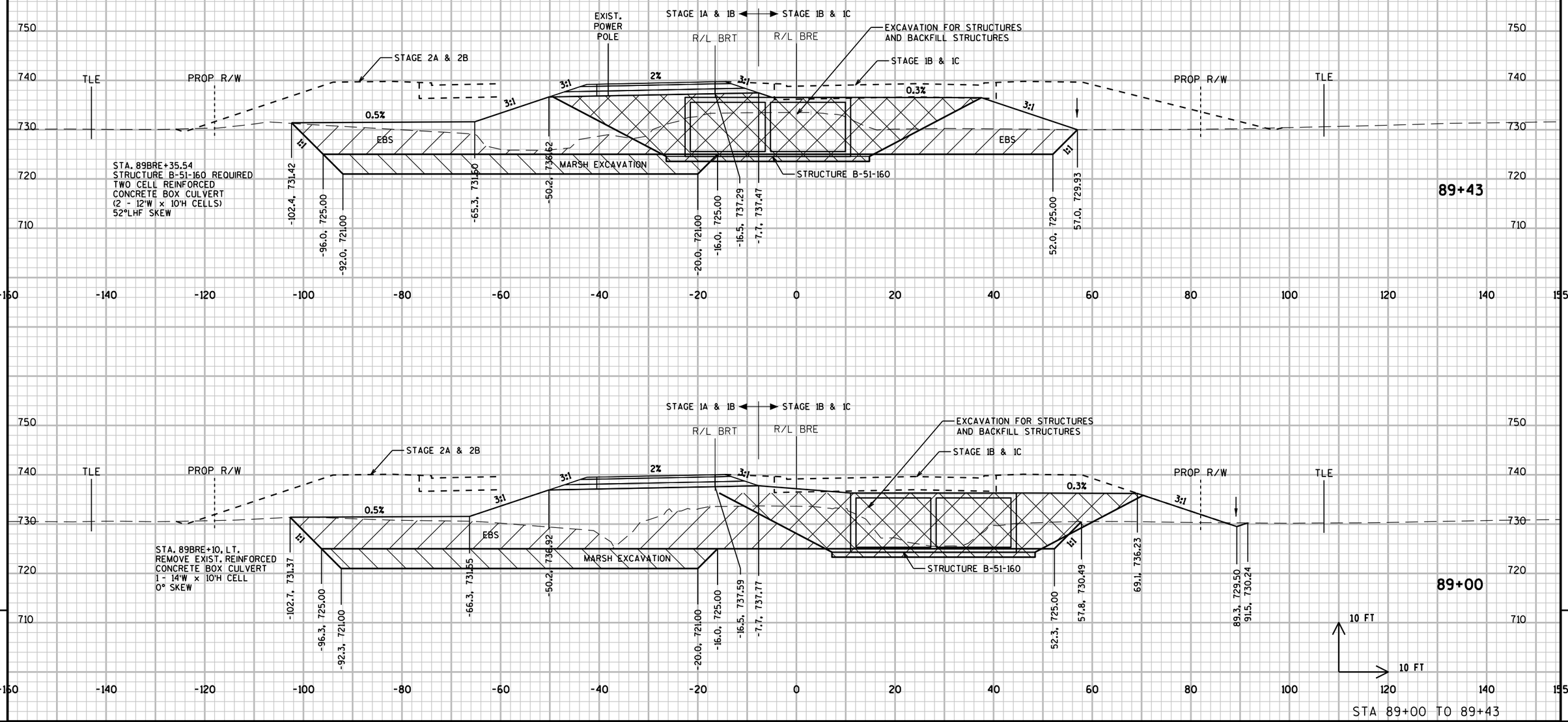
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD\15 14x26x27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 88+00 TO 88+50

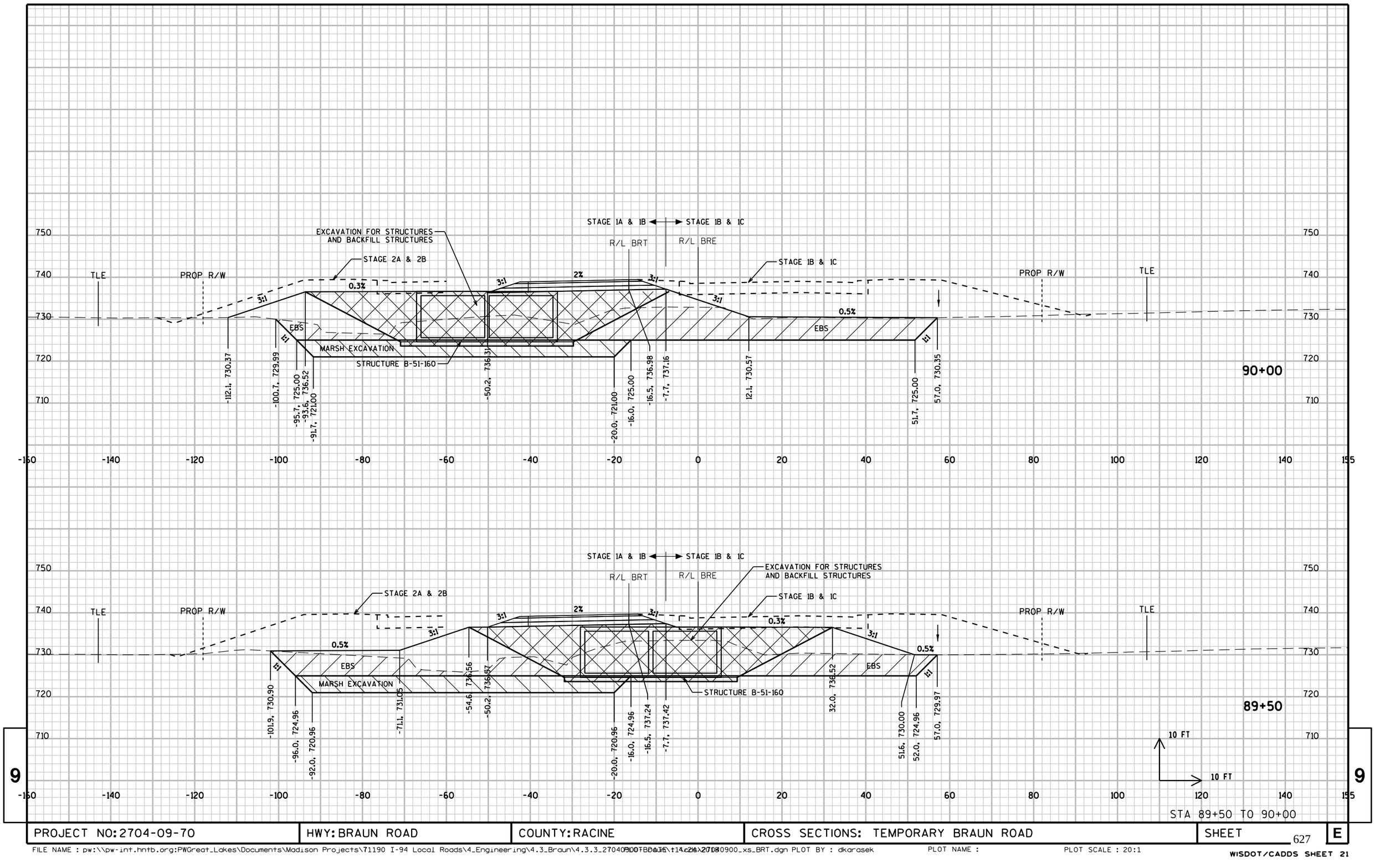
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 625	E



STA 89+00 TO 89+43

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\11x26\27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT DATE : 14:26 2018 PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

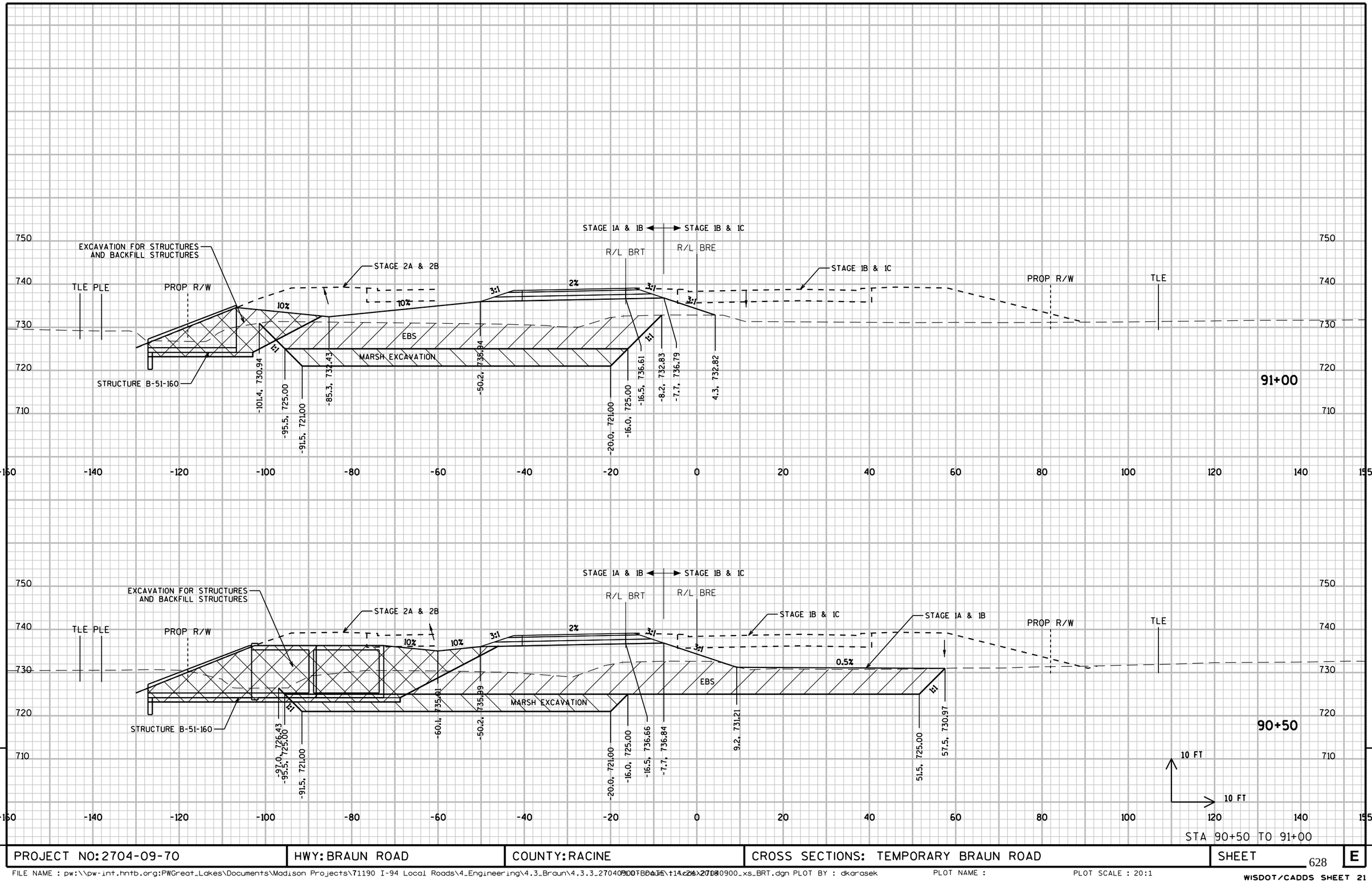


STA 89+50 TO 90+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD\15 14x26\2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

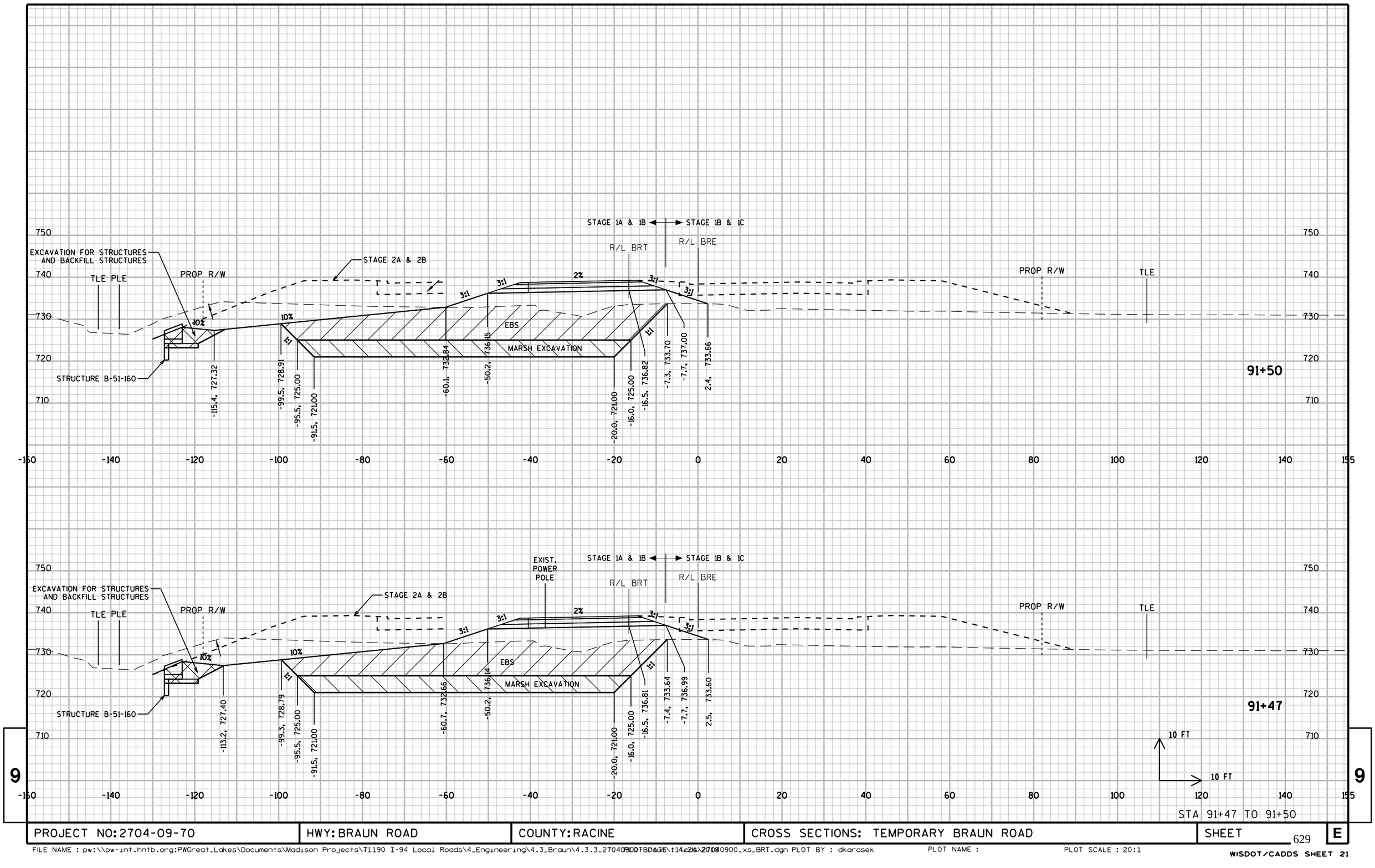
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STA 90+50 TO 91+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

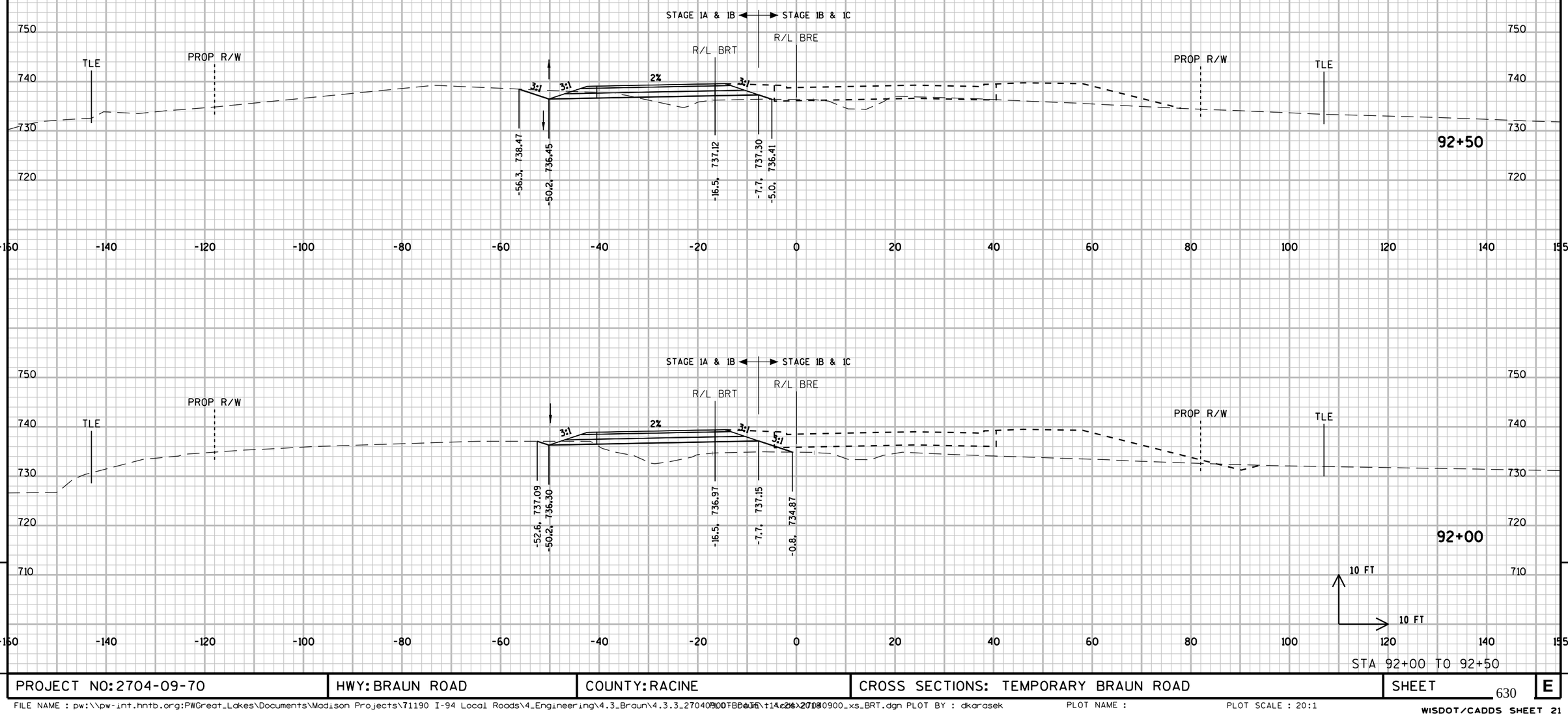
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TEMPBRAUN_14x26x20180900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

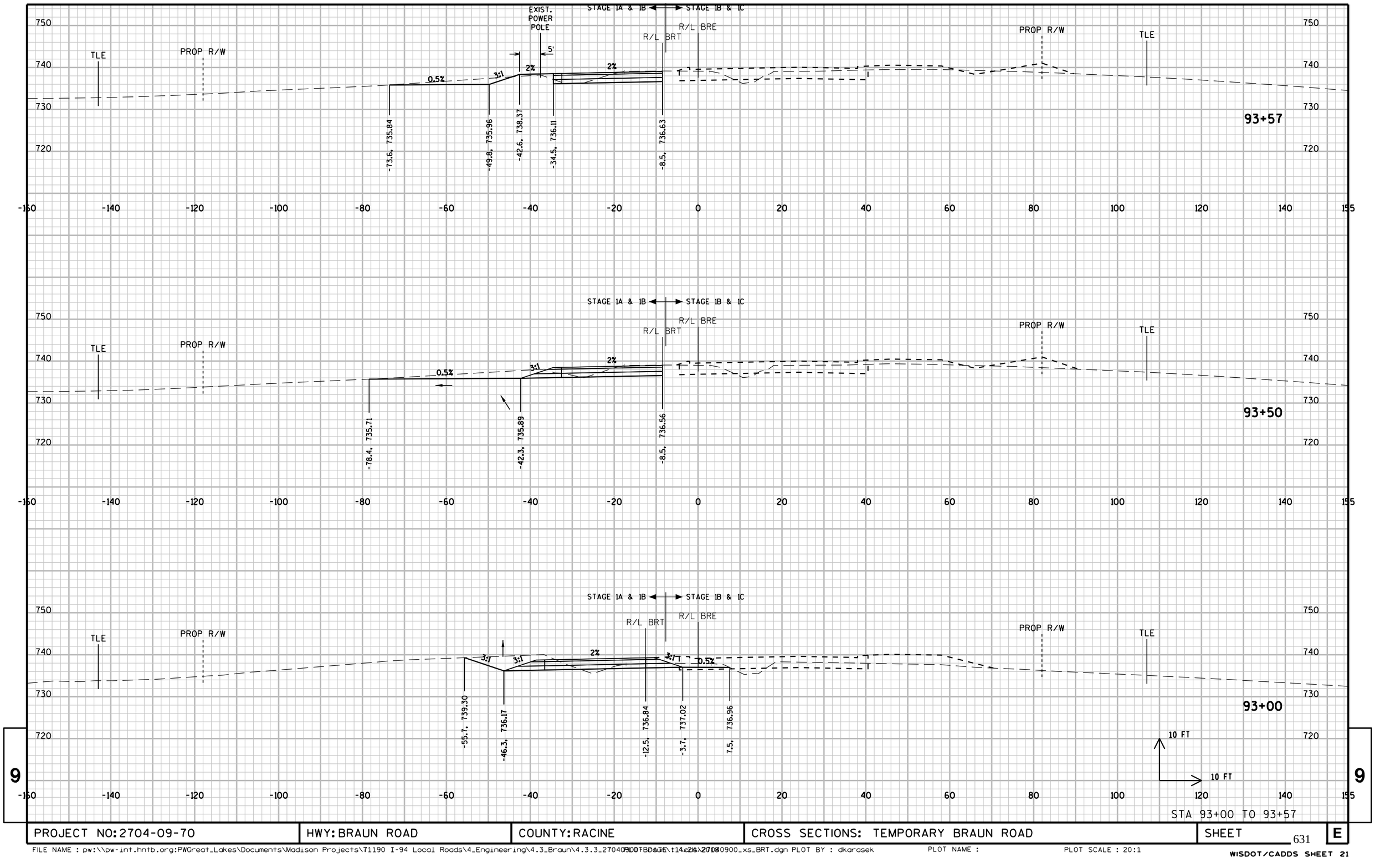
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\14.26x20_27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 630	E

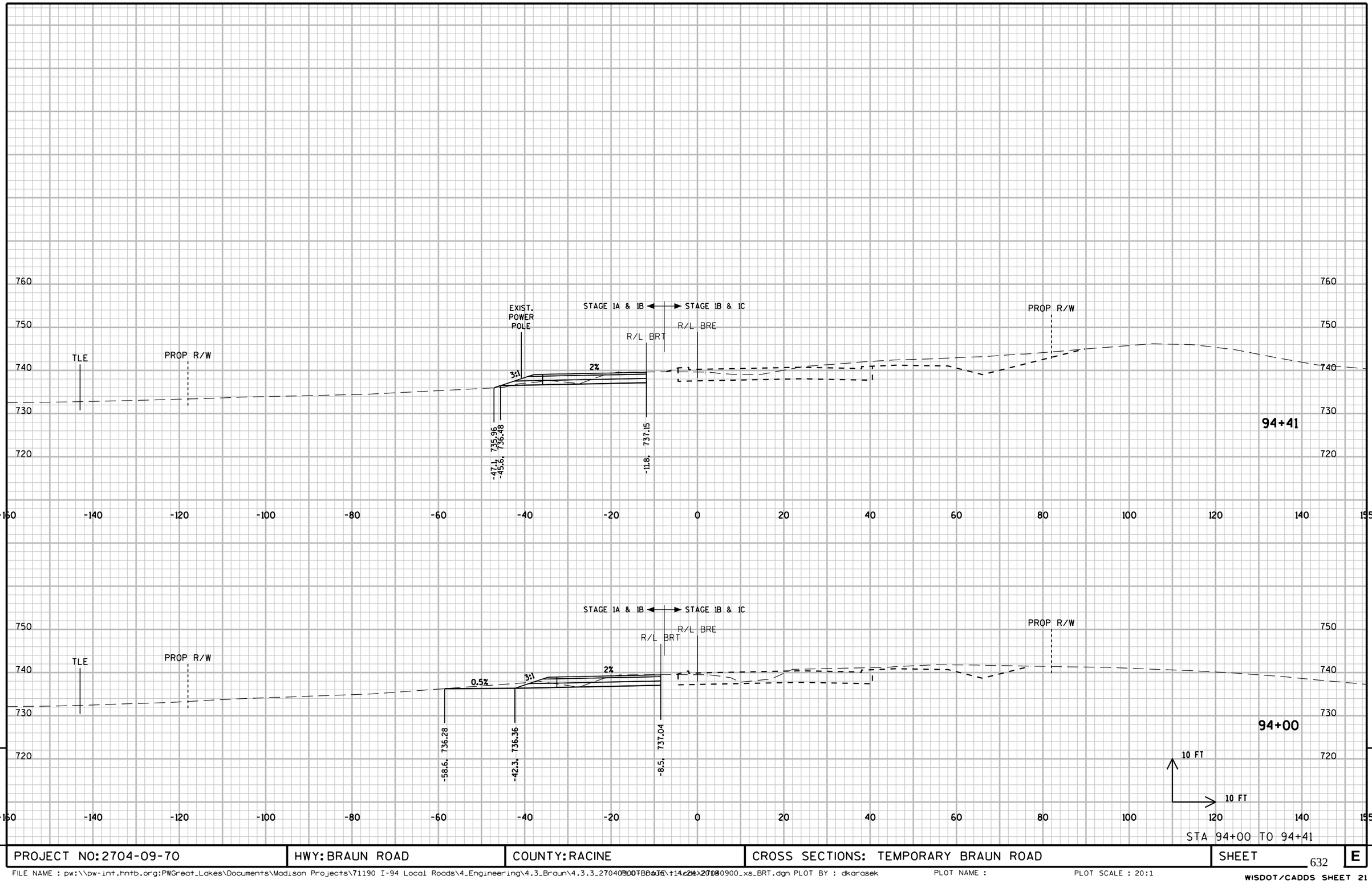
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WISDOT/CADDS SHEET 21



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD.dir\14.26.27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



9

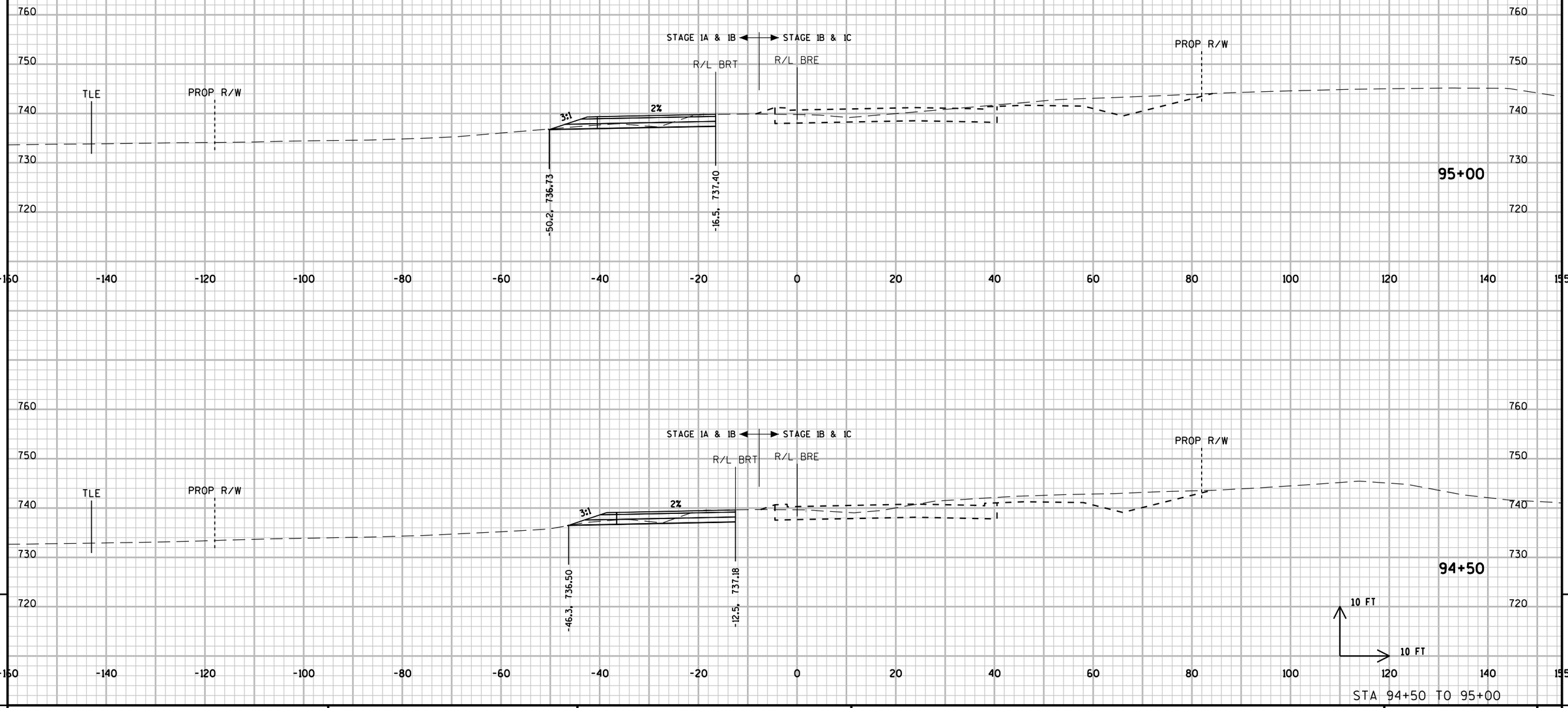
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STA 94+00 TO 94+41

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD.dir\14.26.x27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

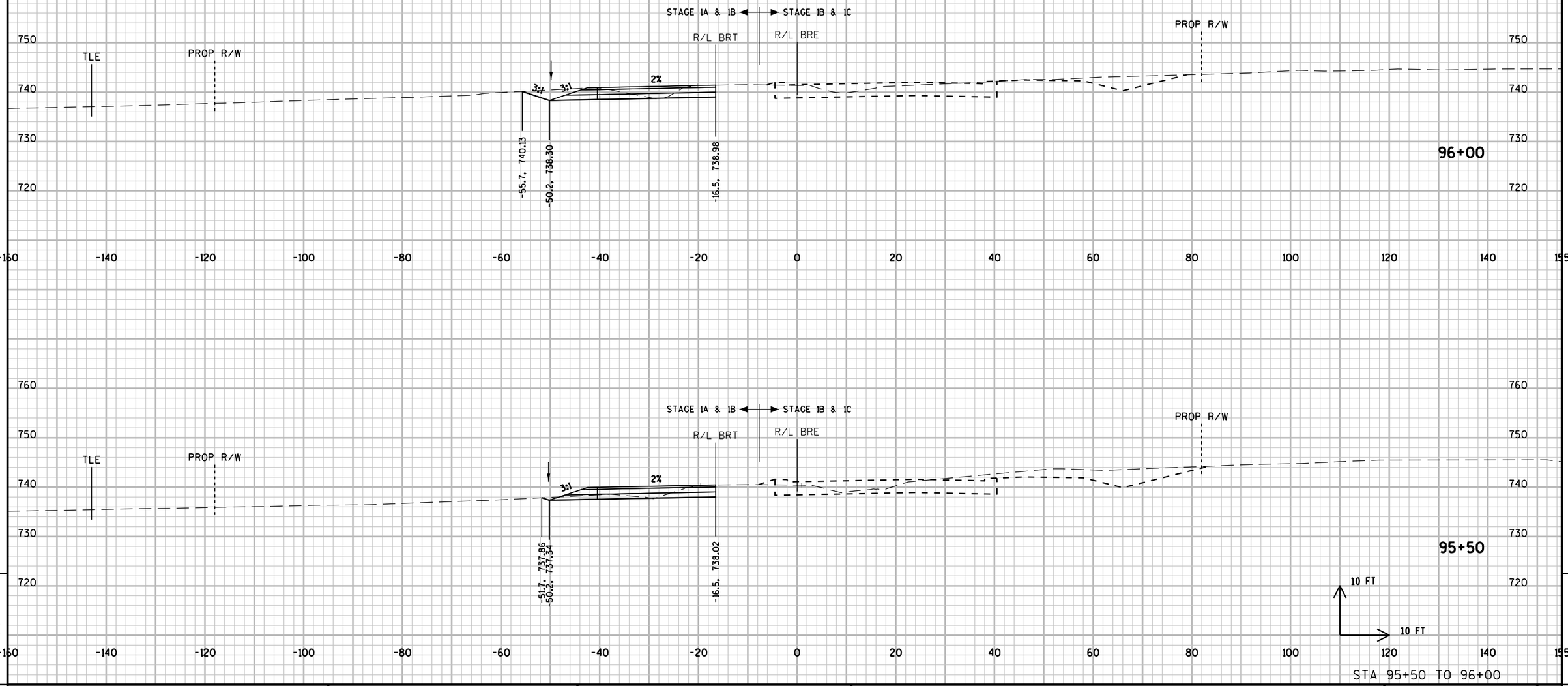
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STA 94+50 TO 95+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

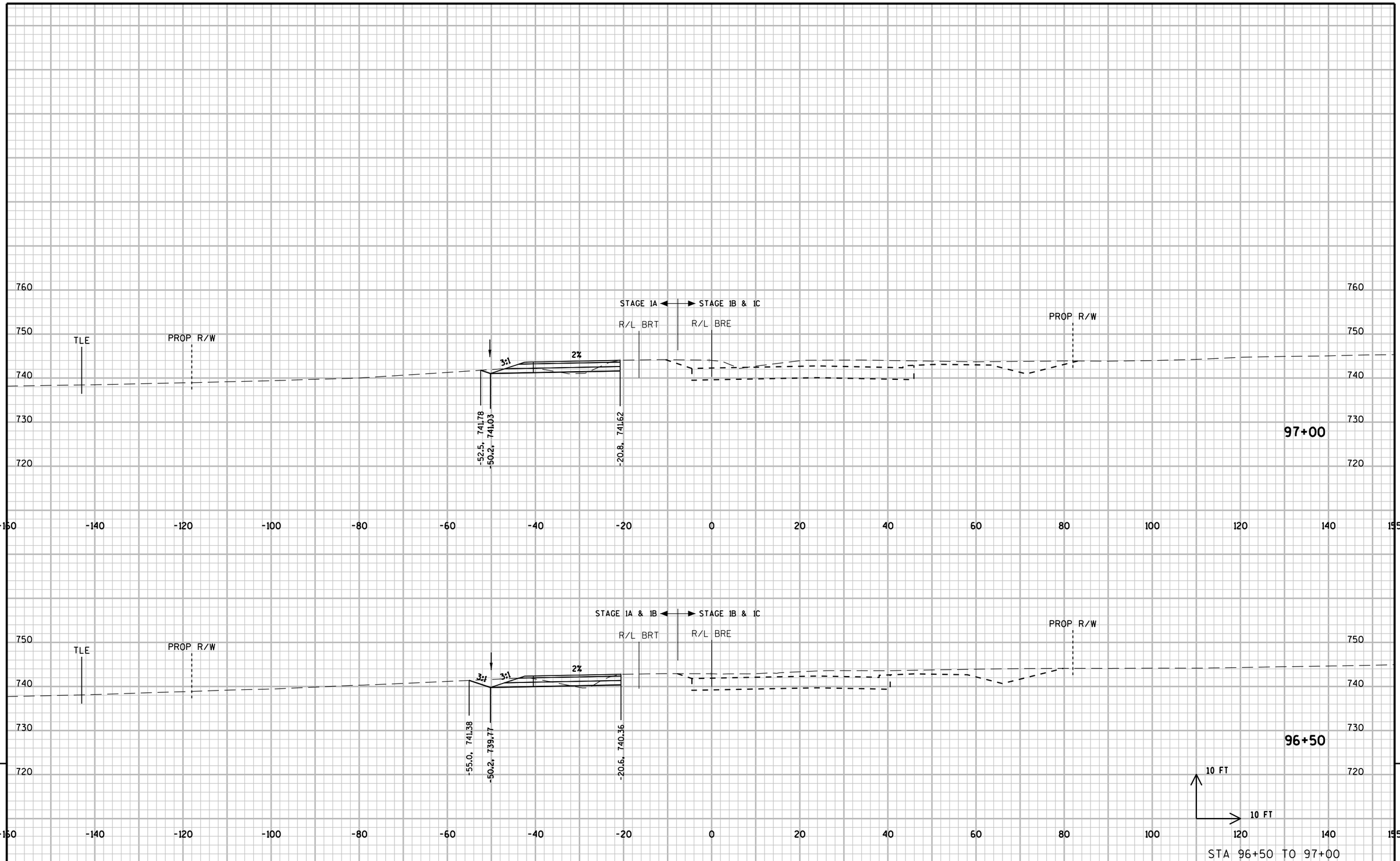
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WISDOT/CADDS SHEET 21



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090070_Braun\11x26\2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



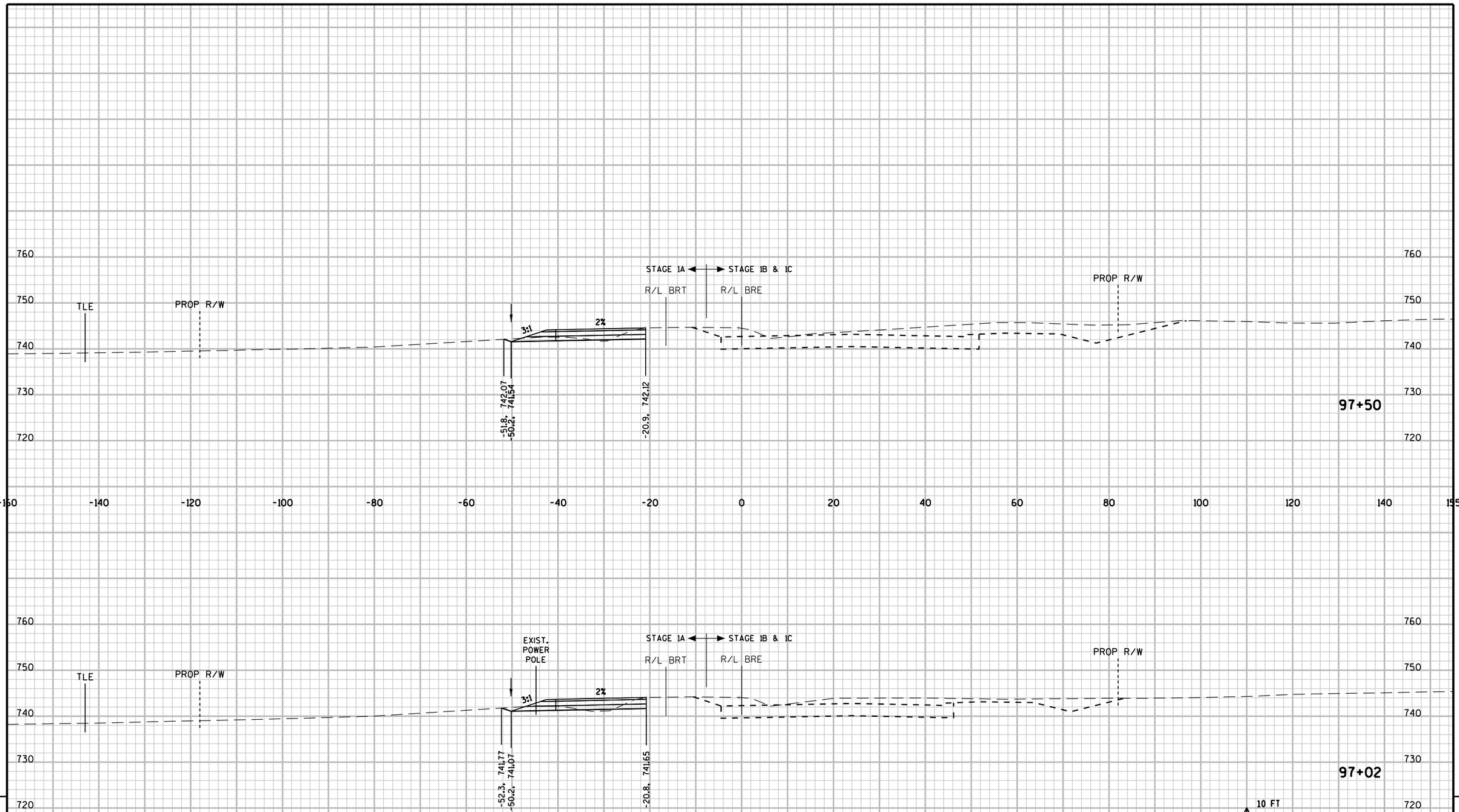
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PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 635	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\11x26\27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



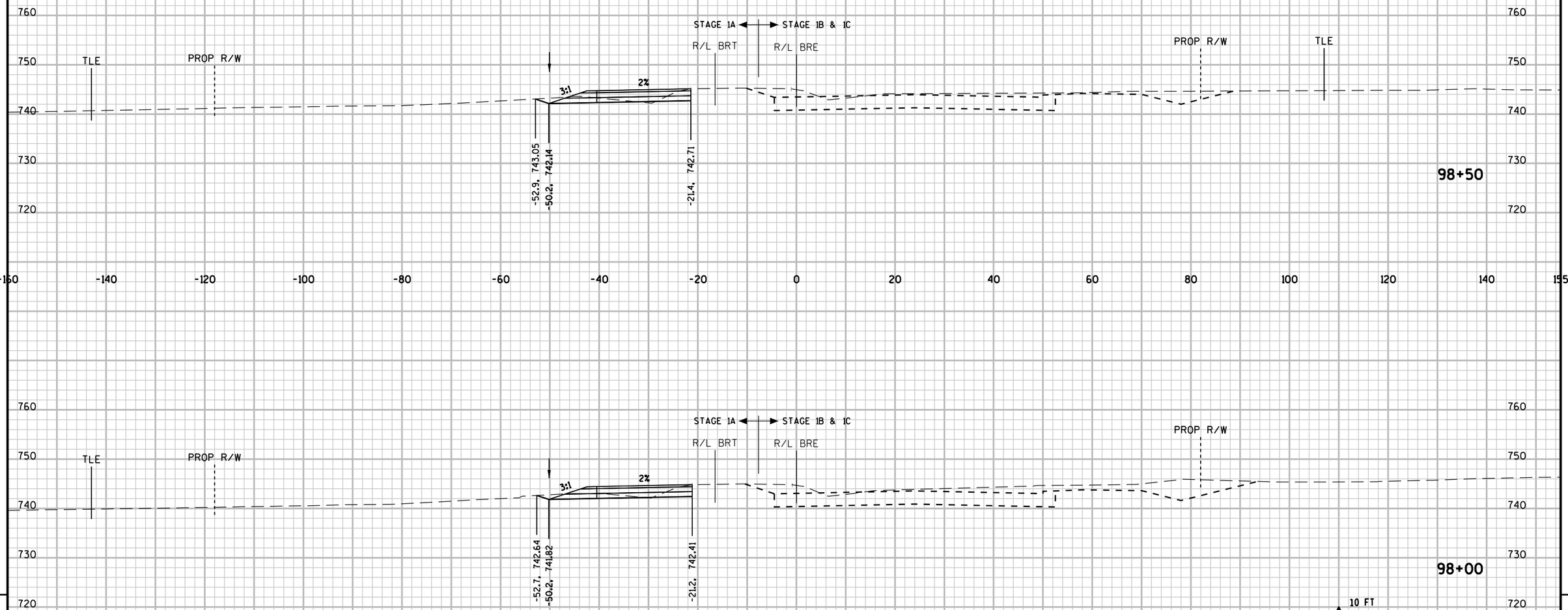
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9

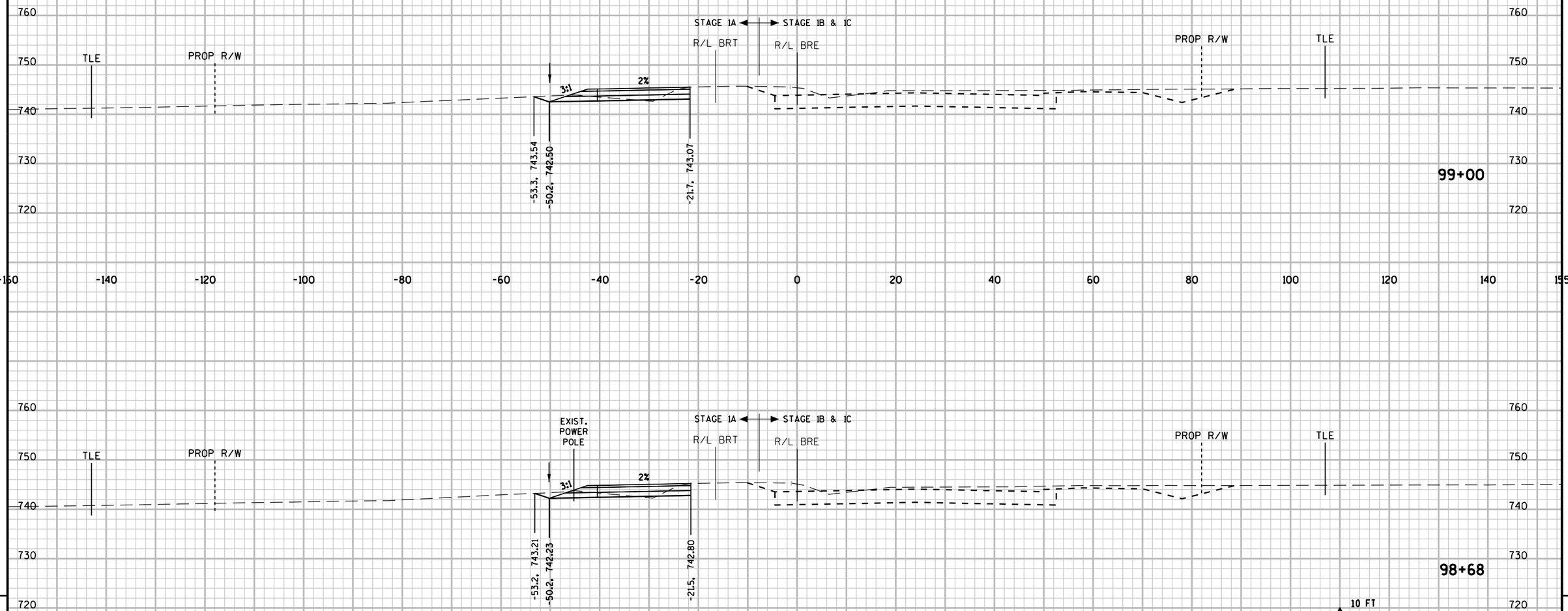
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090070_Braun\11x26\2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 637	E

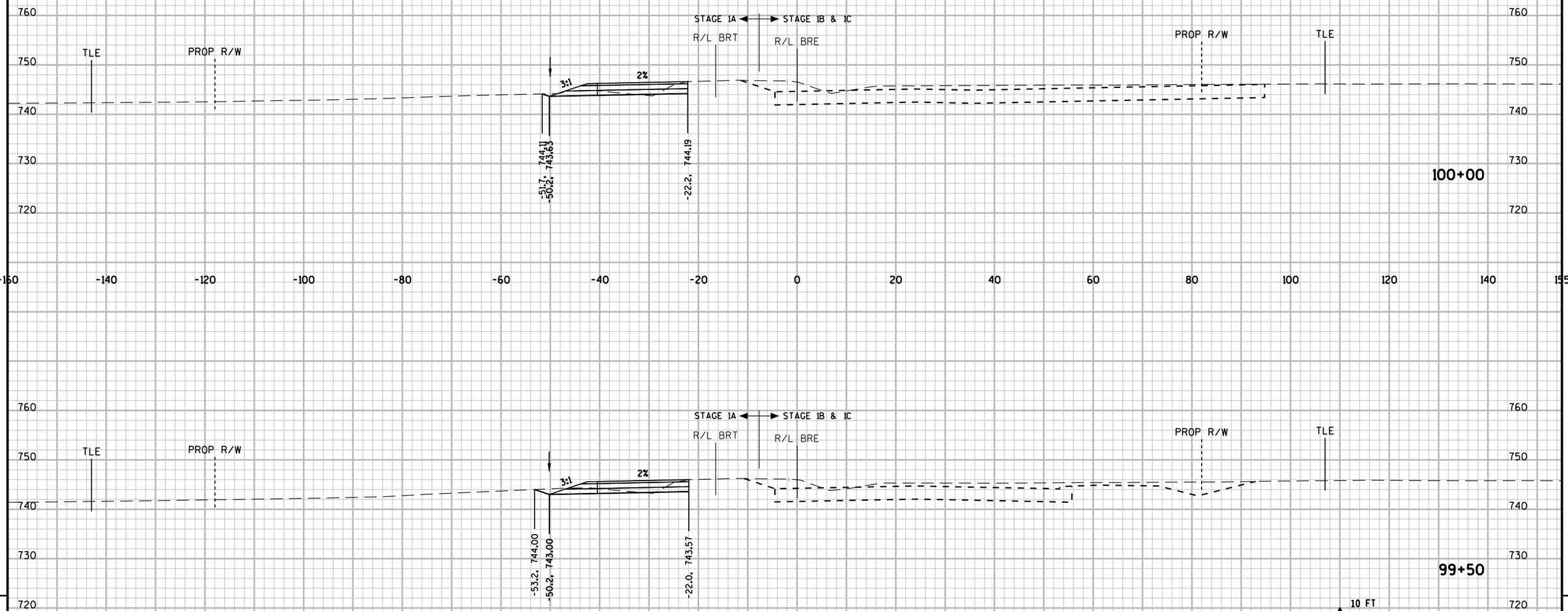


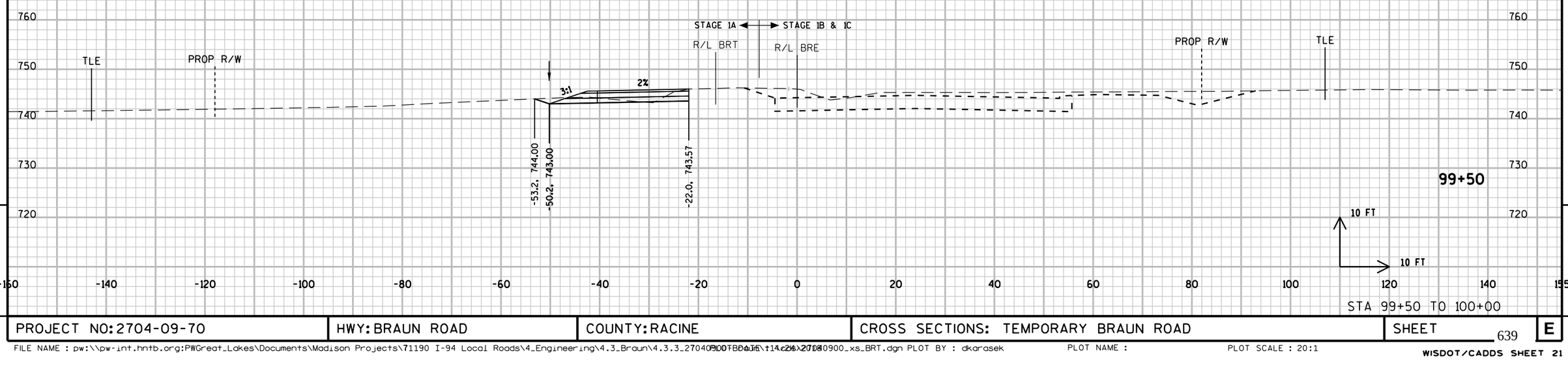
STA 98+68 TO 99+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\11x26\27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT DATE : 14 JAN 2008 PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



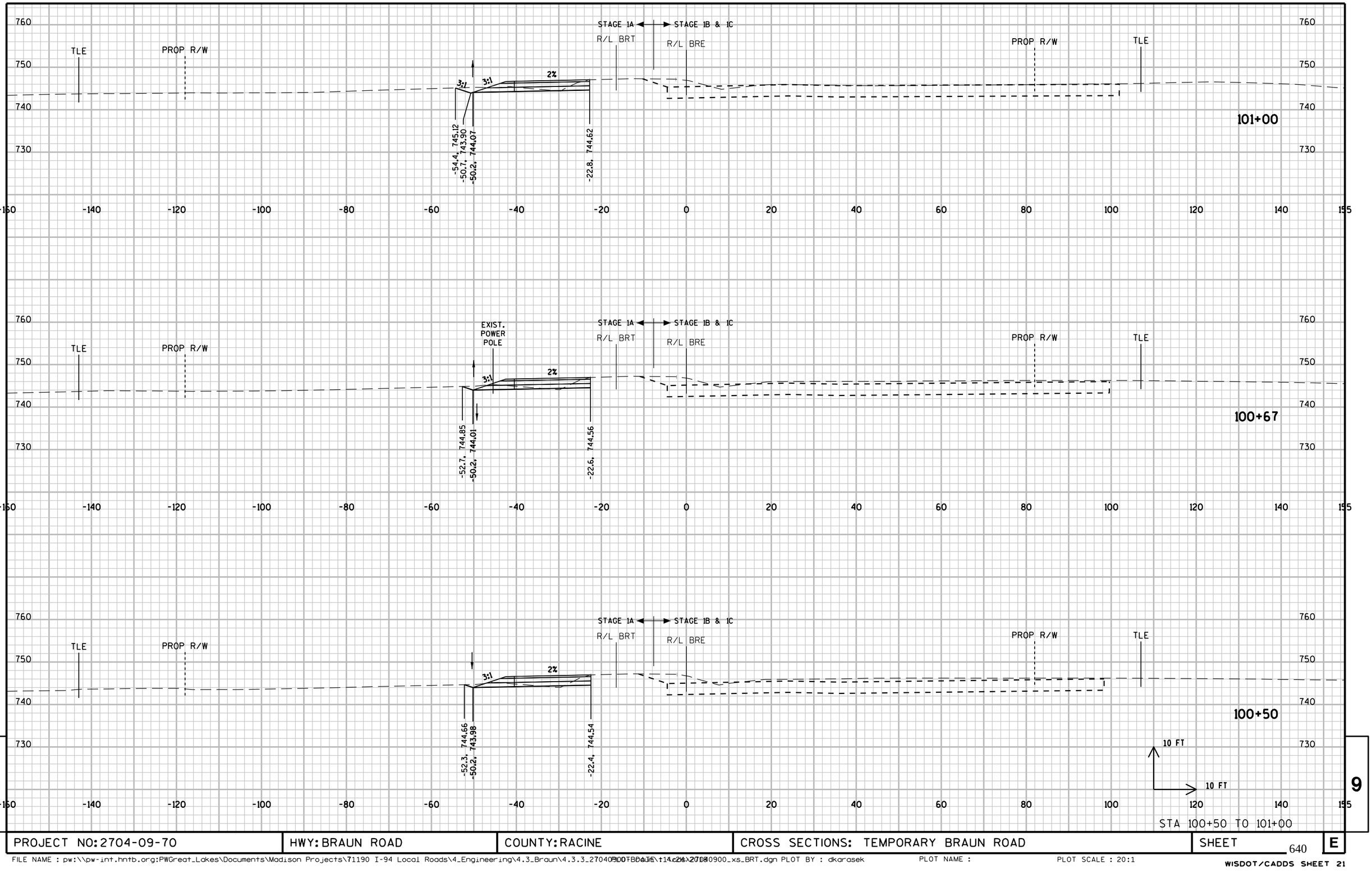


STA 99+50 TO 100+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 639	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBraun\11x26\2704090_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



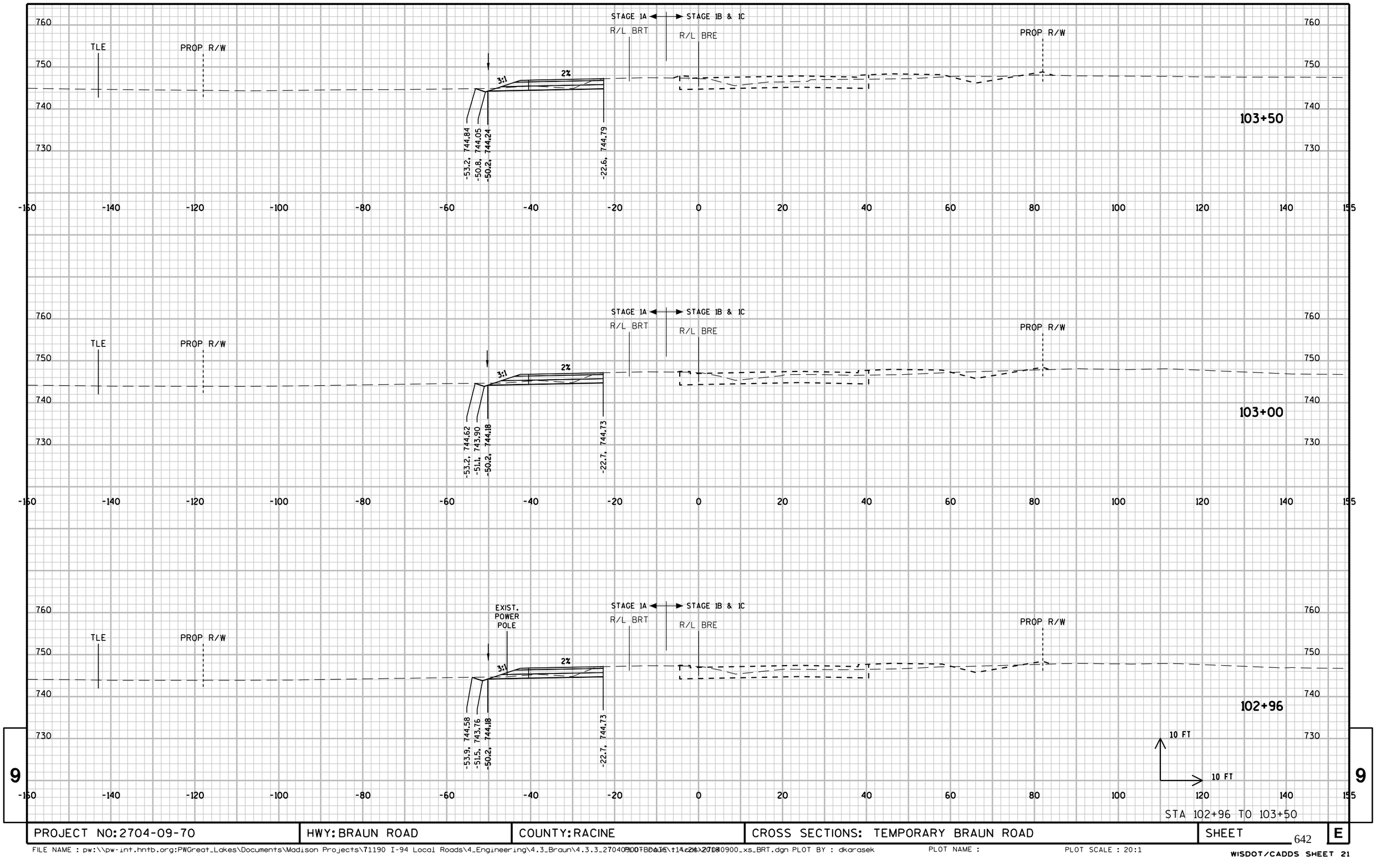
STA 100+50 TO 101+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 640	E

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 641	E

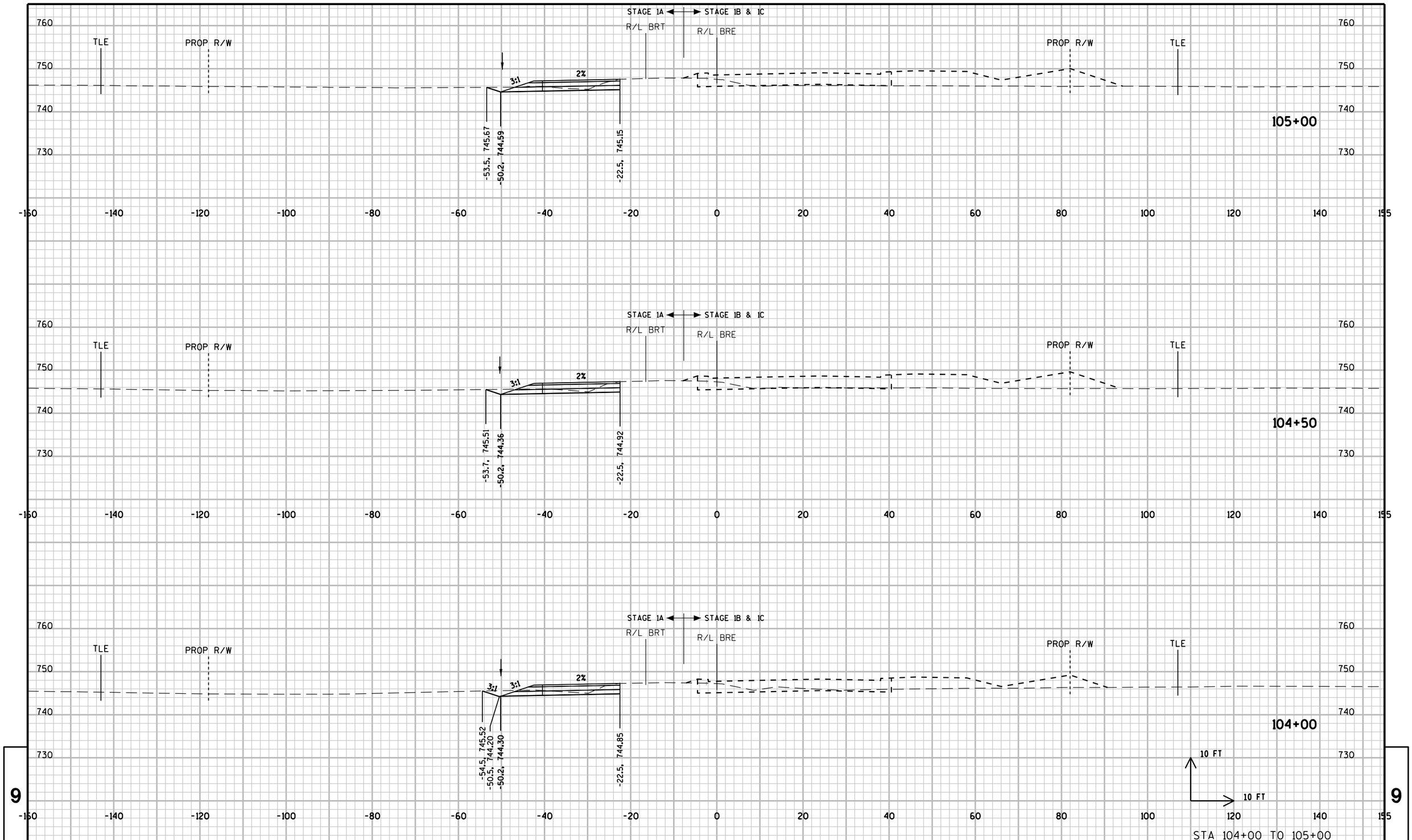
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\11x26\27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 102+96 TO 103+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 642	E

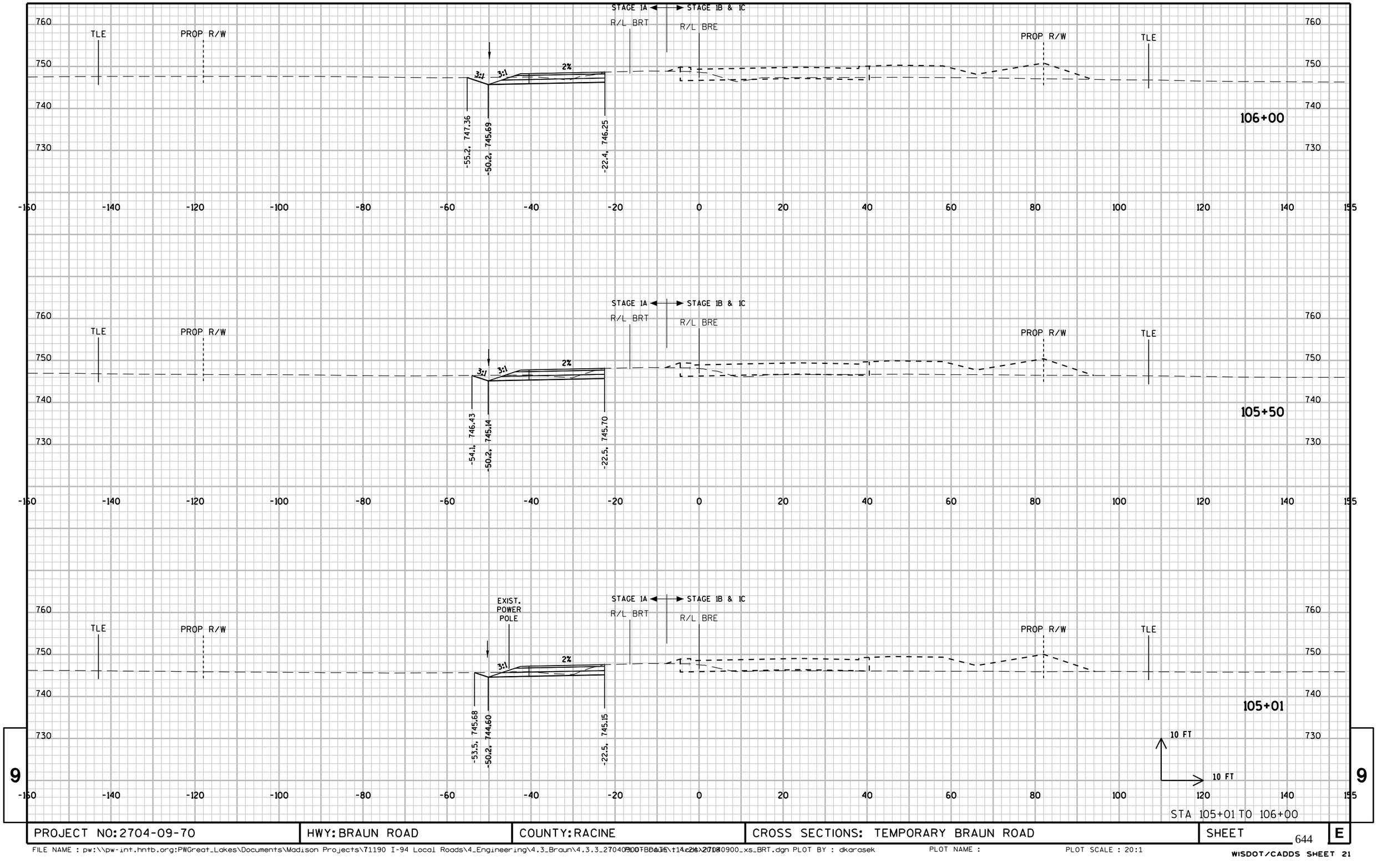


9

9

STA 104+00 TO 105+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 643	E



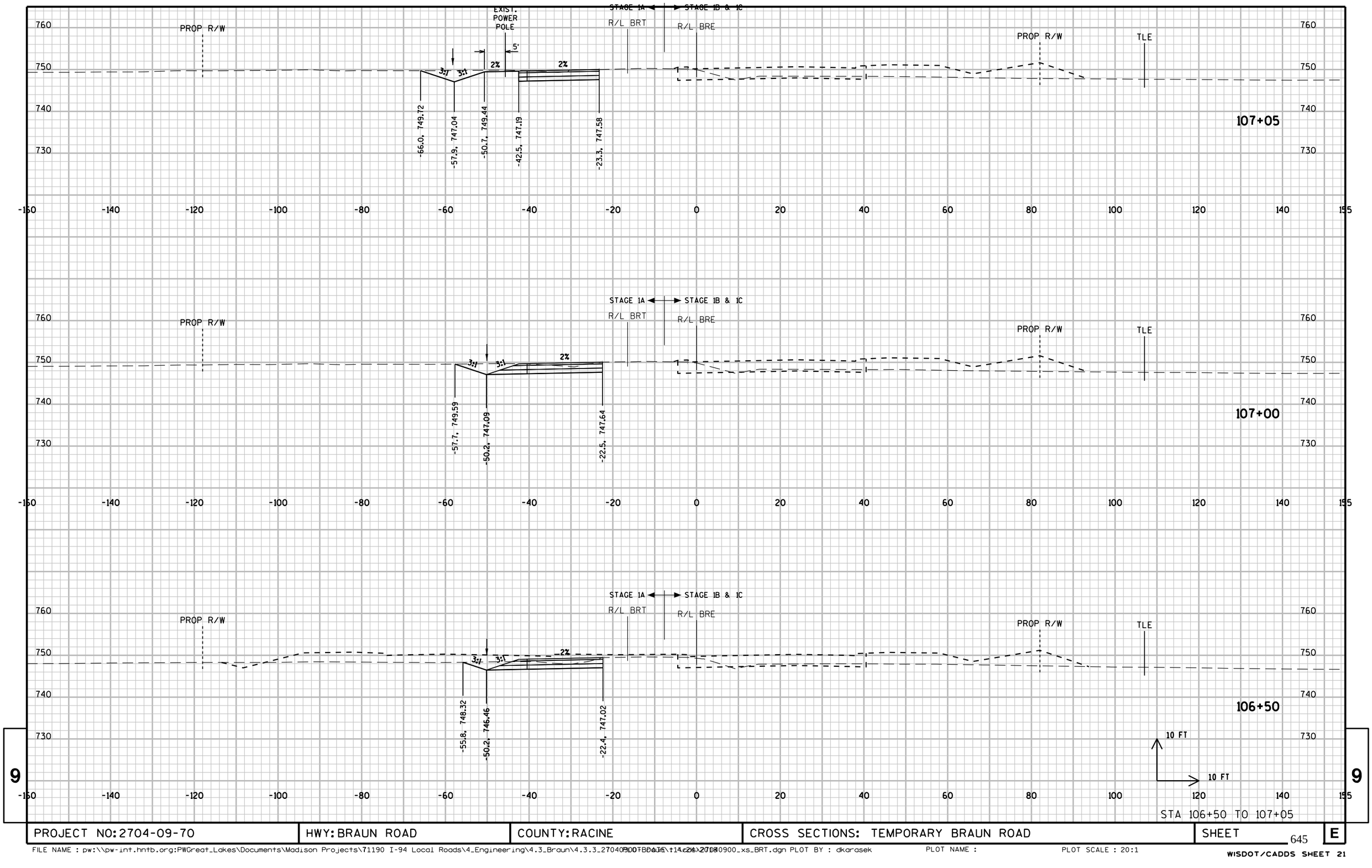
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9

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD\15 14x26x27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

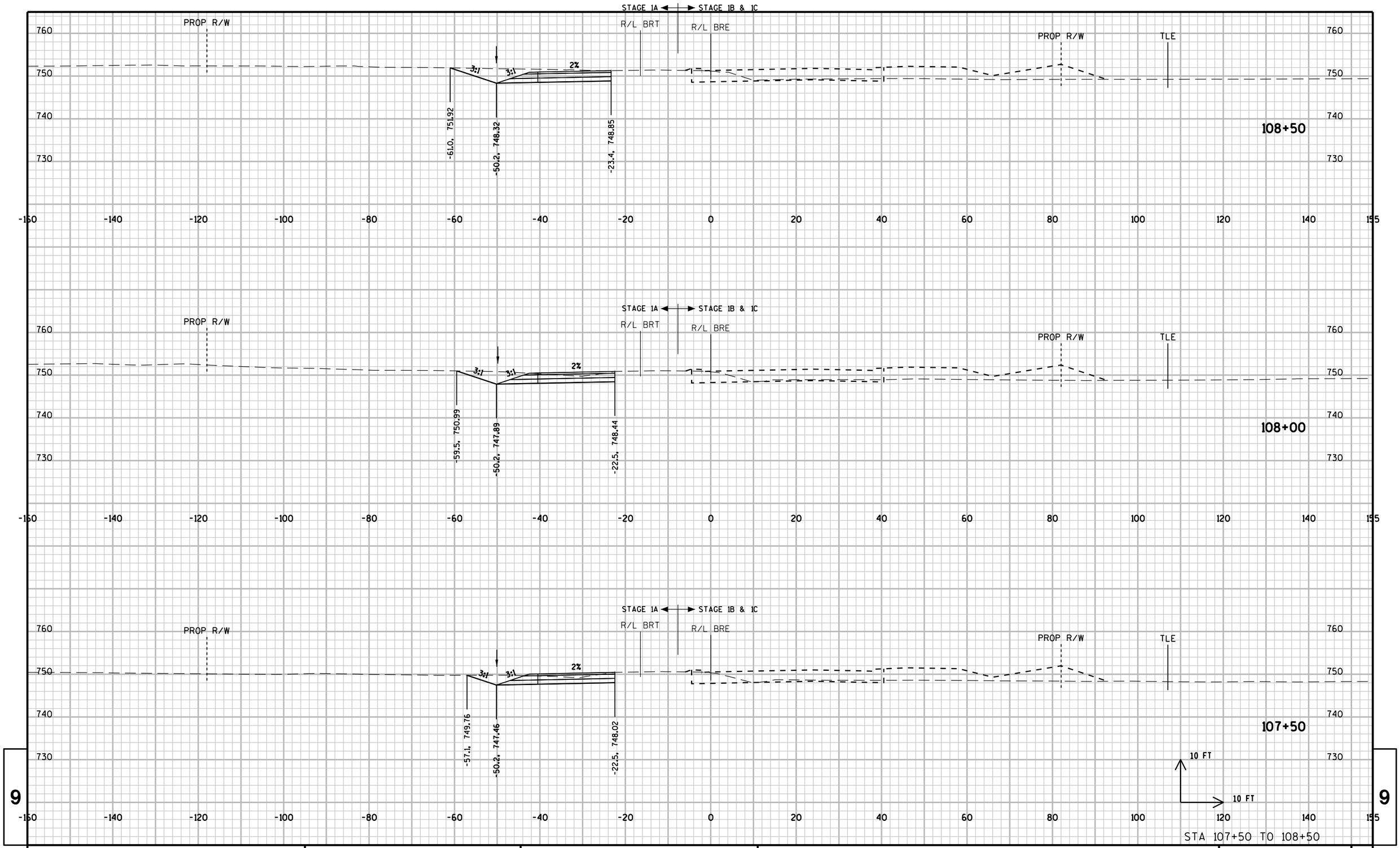
WISDOT/CADDS SHEET 21



9

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 645	E

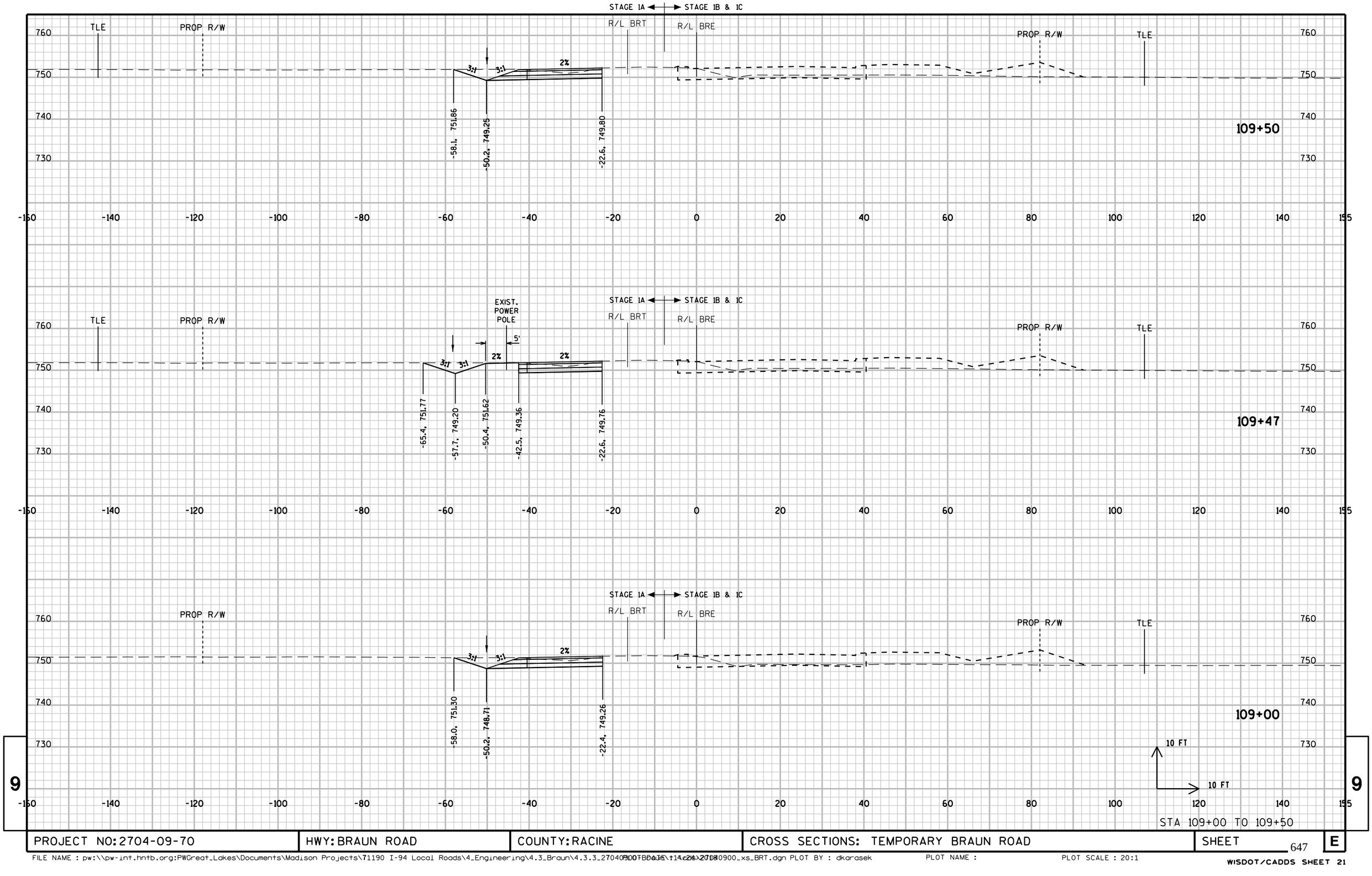
STA 106+50 TO 107+05



STA 107+50 TO 108+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN_14x26x2708900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

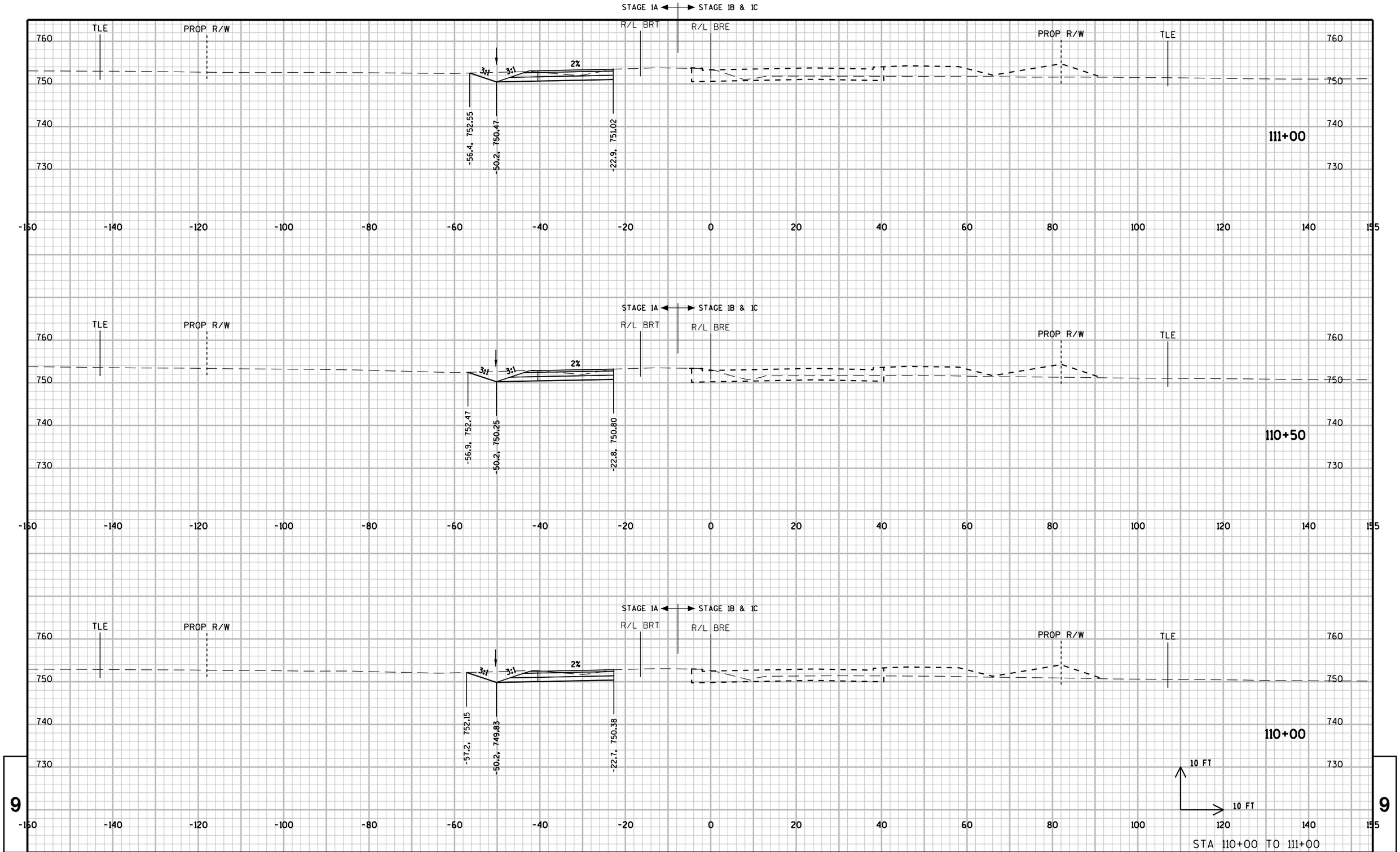


9

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

STA 109+00 TO 109+50

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.15\14.26x20.08\2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



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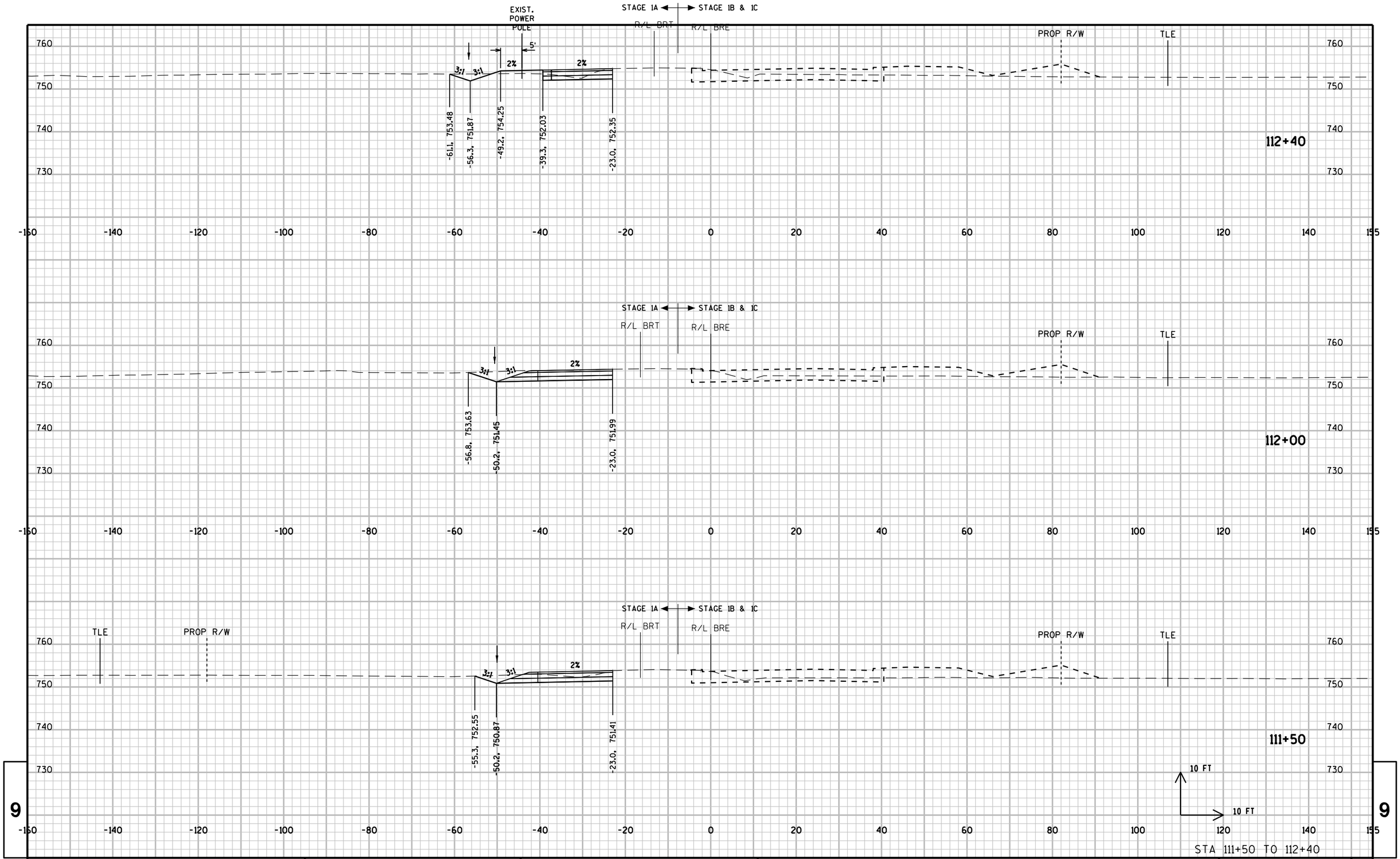
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STA 110+00 TO 111+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 648	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\t14_26x20_20090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

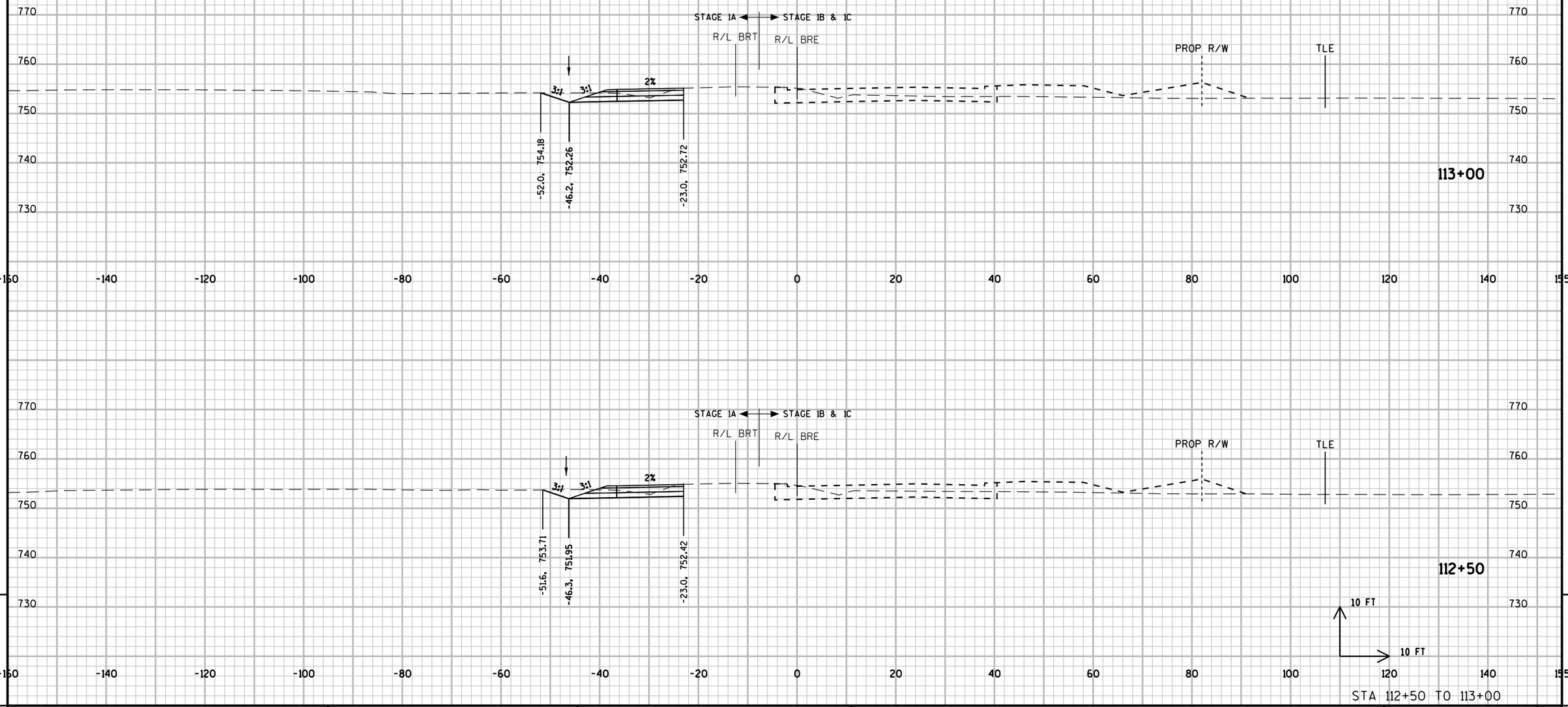
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STA 111+50 TO 112+40

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD.dir\14.26.x27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 112+50 TO 113+00

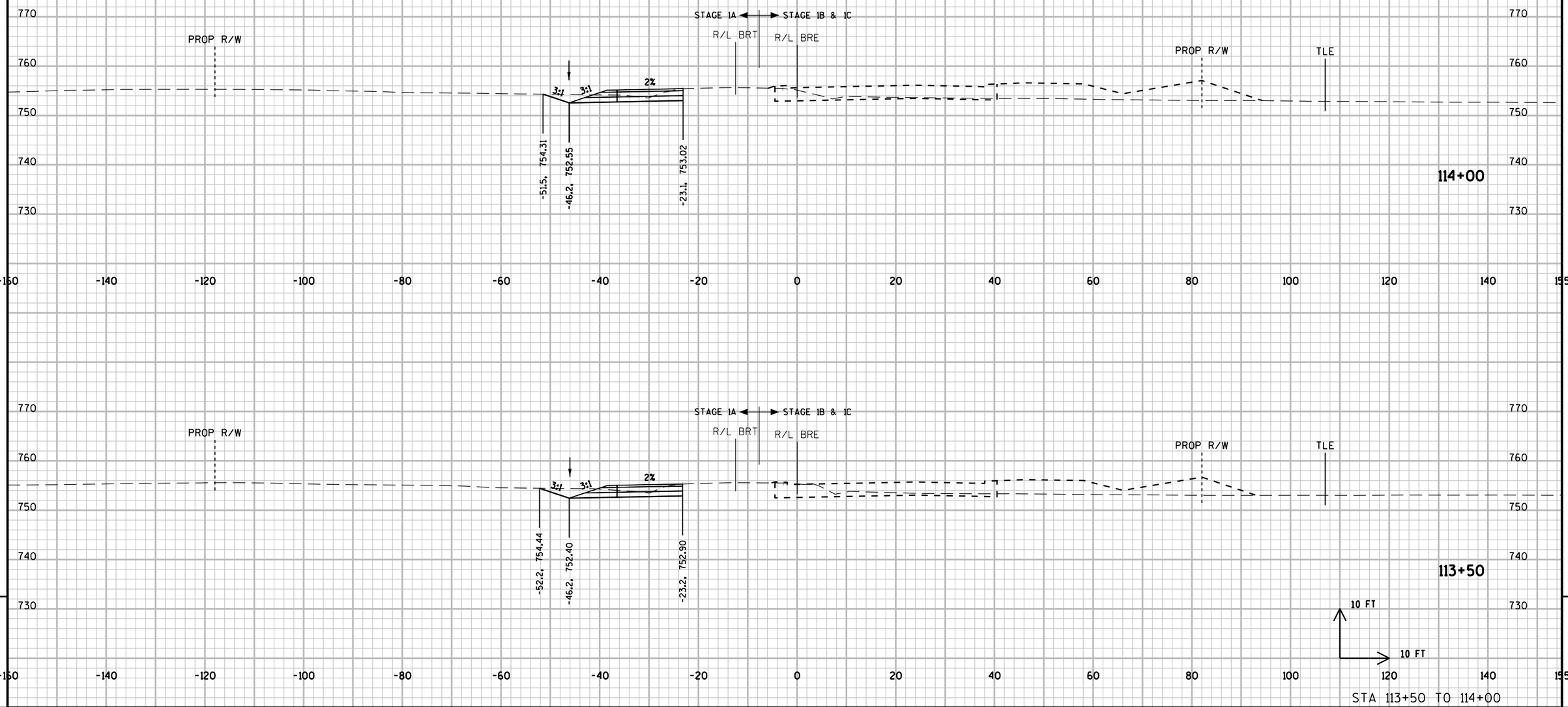
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PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 650	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090_BRAUN\11x26\2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT DATE : 14 JAN 2010 PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

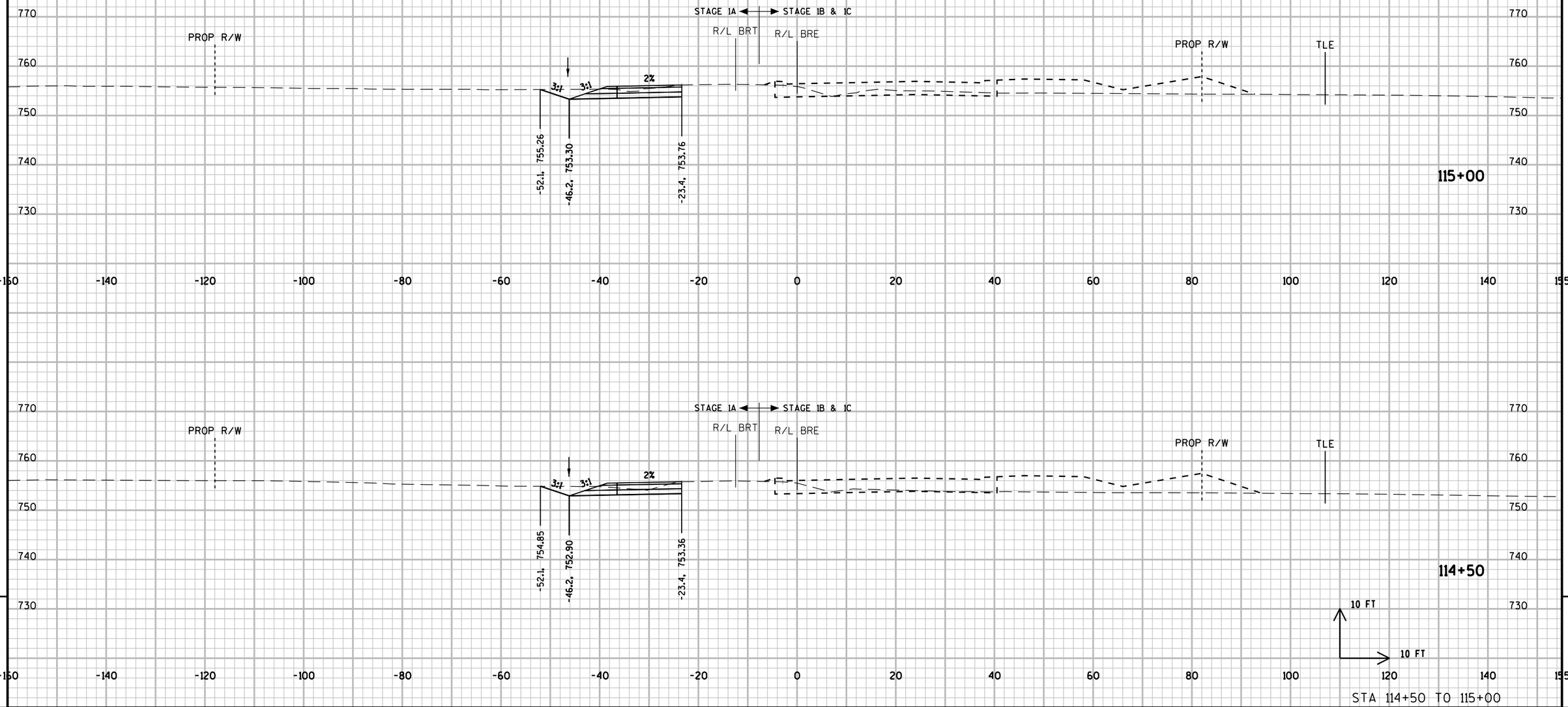


STA 113+50 TO 114+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 651	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\11x26\27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT DATE : 14 JAN 2008 PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

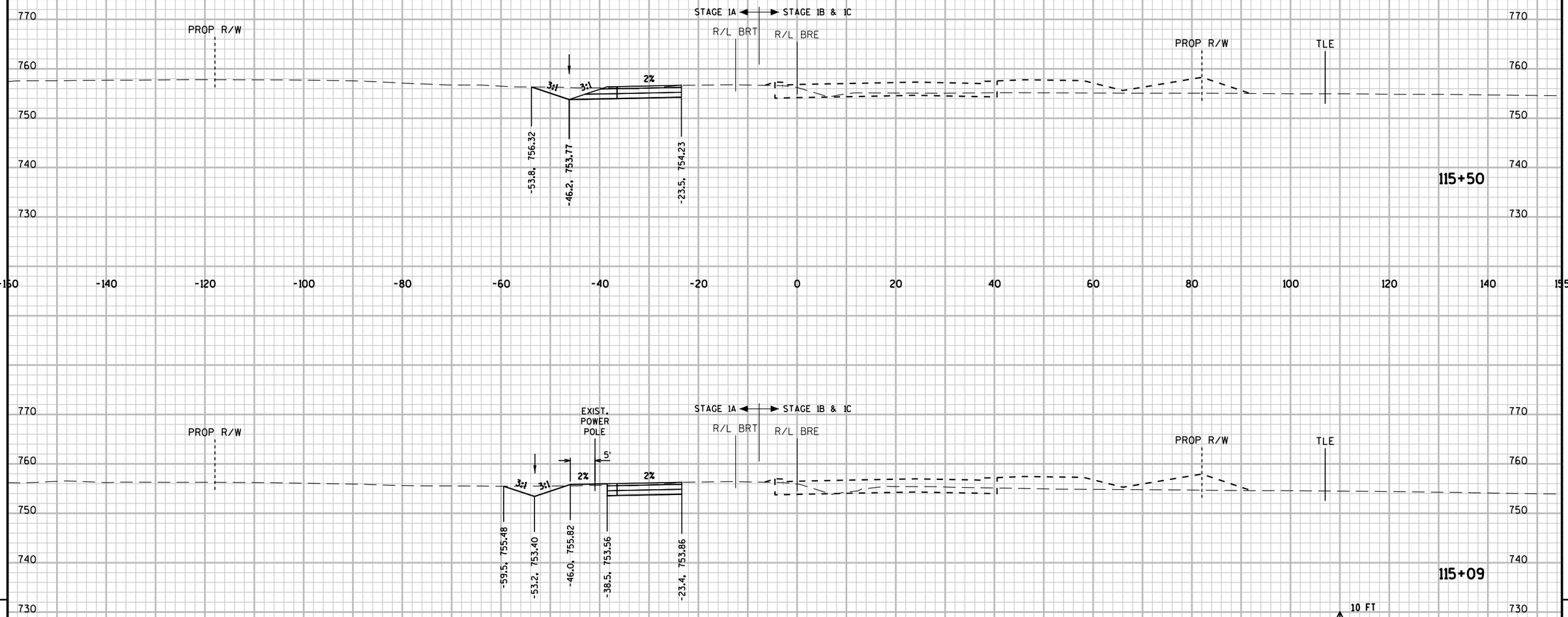
9

STA 114+50 TO 115+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 652	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\1 cad\27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT DATE : 14-26-2018 PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

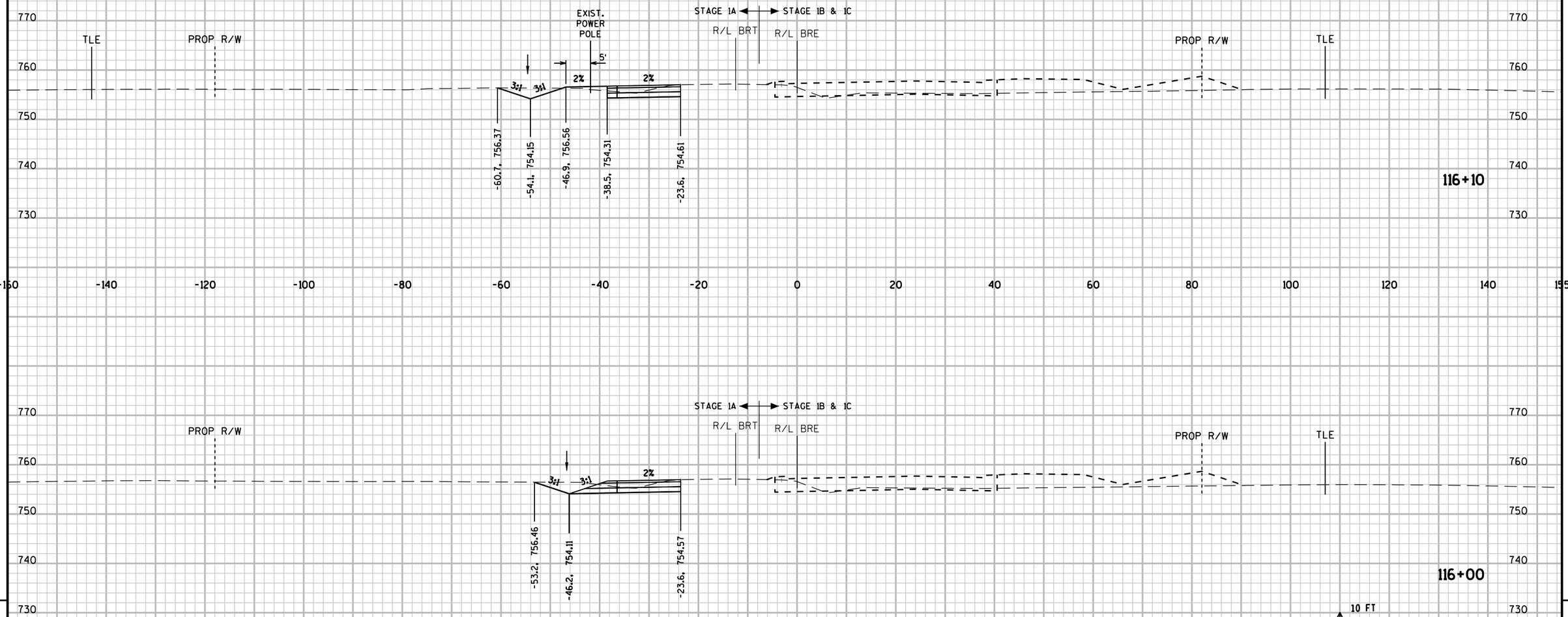


STA 115+09 TO 115+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 653	E

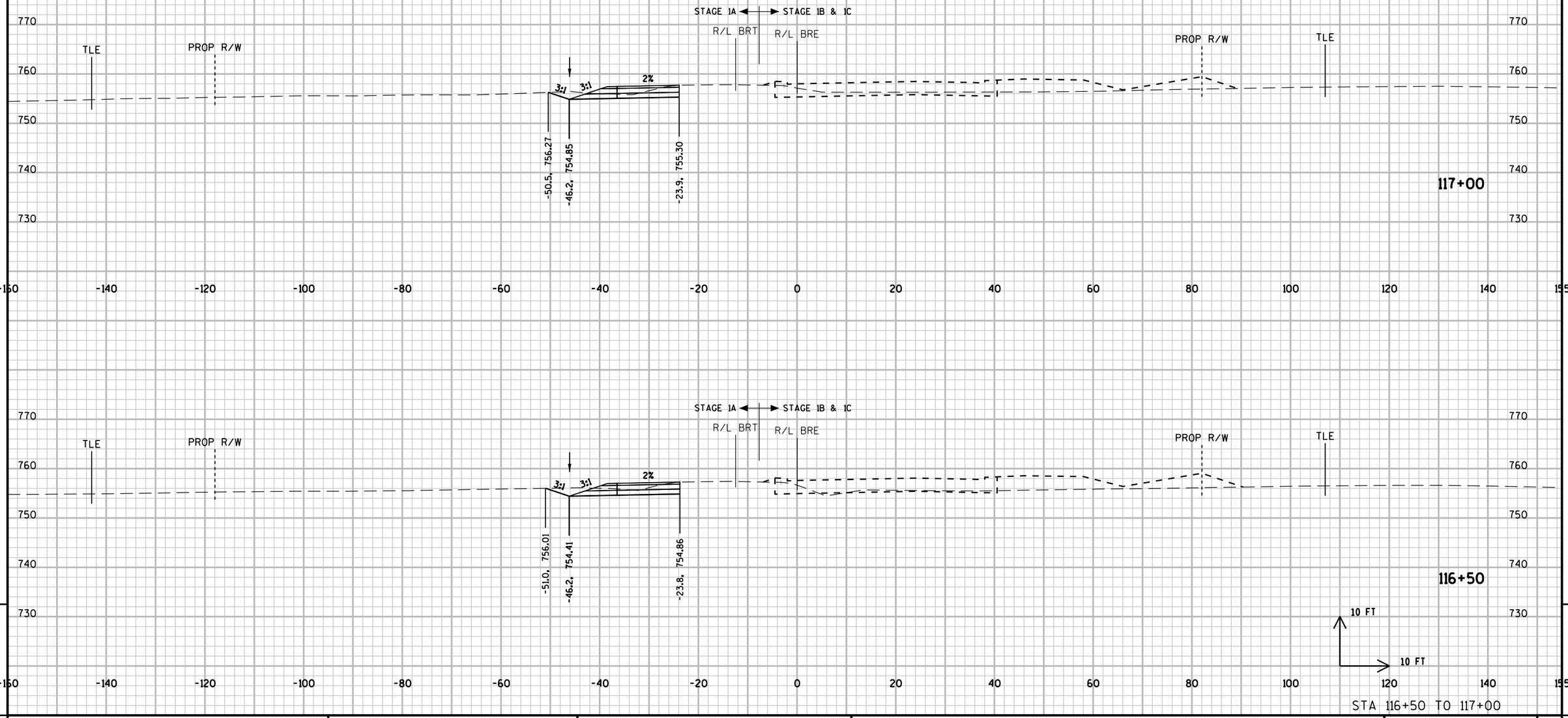
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090070_Braun\11x26\2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 116+00 TO 116+10

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 654	E

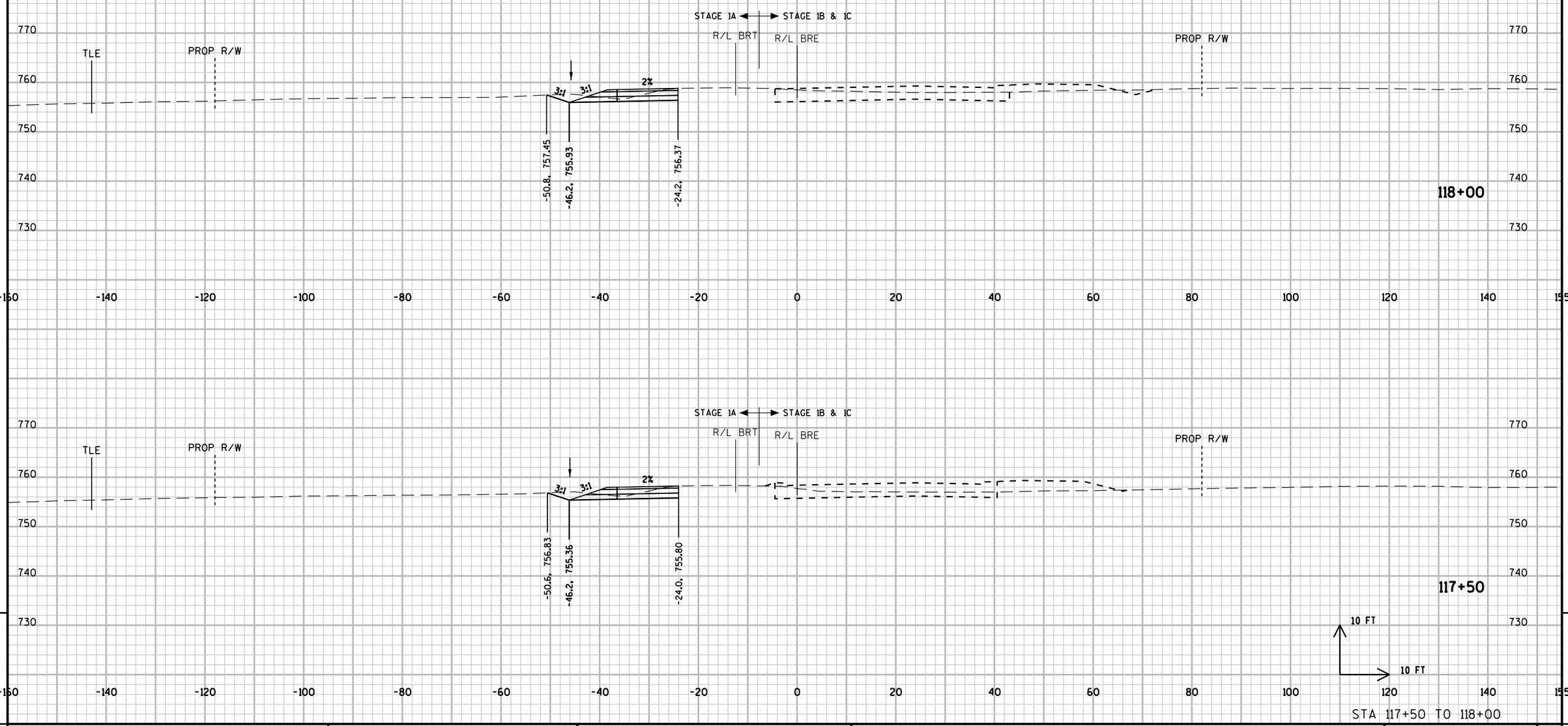


9

9

STA 116+50 TO 117+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 655	E

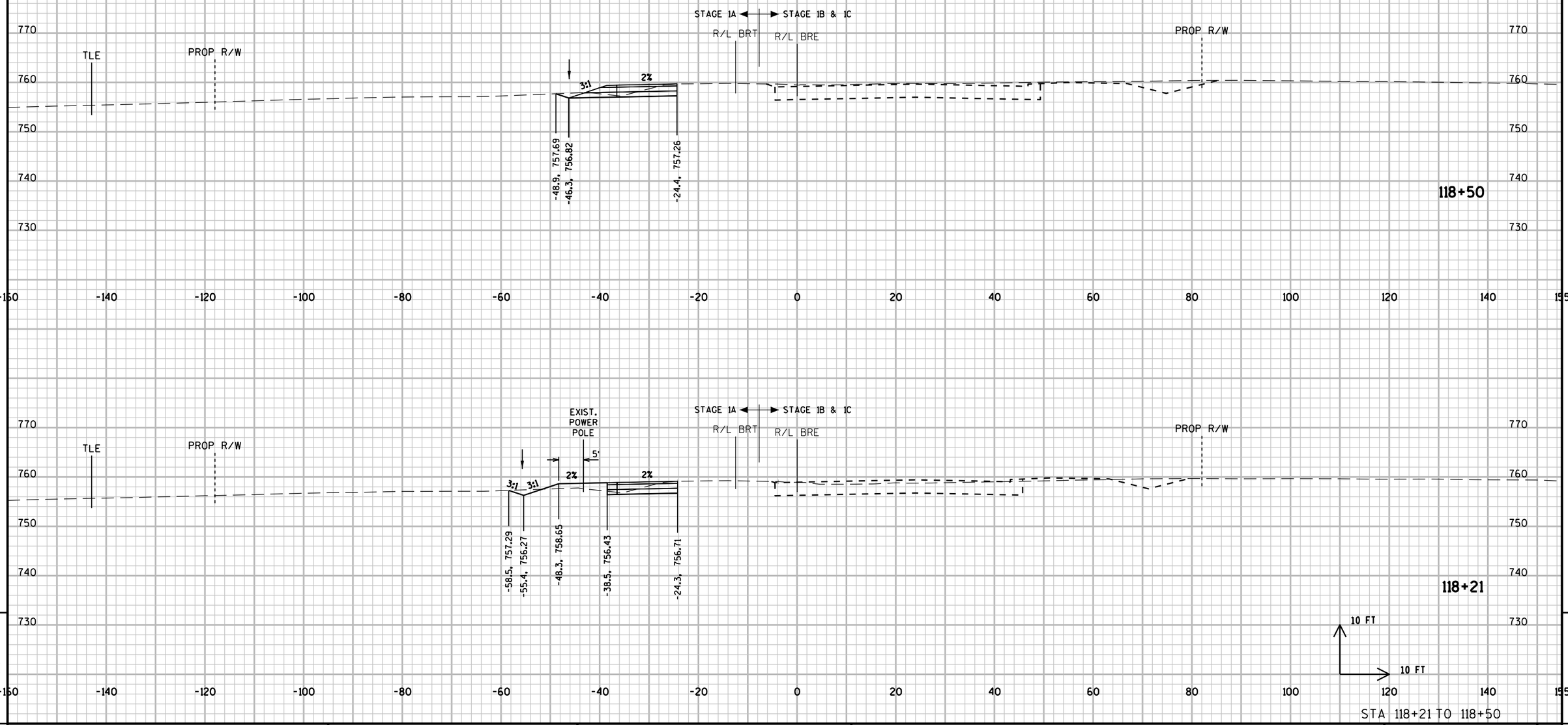


STA 117+50 TO 118+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 656	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBraun\11x26\2704090_xs_BRT.dgn PLOT BY : dkarasek PLOT DATE : 14 JAN 2010 PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

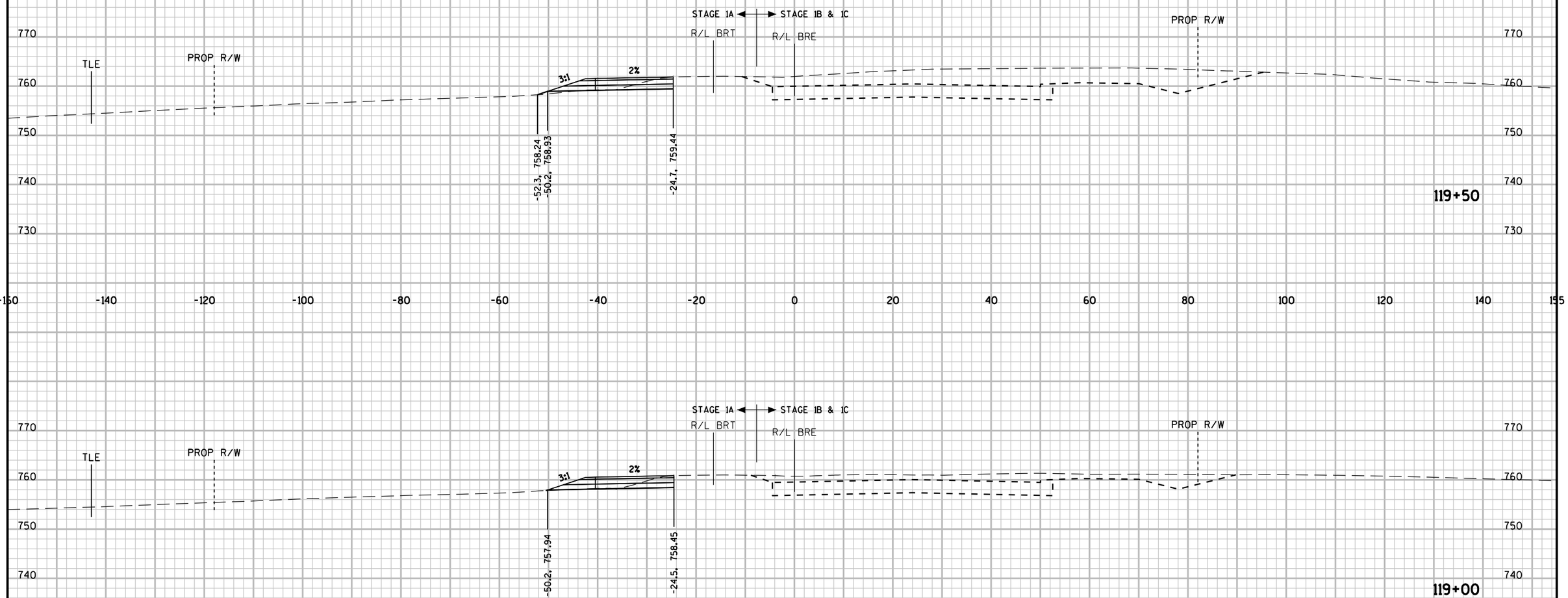


STA 118+21 TO 118+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 657	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090070_BRAUN\14.26x20_20080900_xs_BRT.dgn PLOT BY : dkarasek PLOT DATE : 14 OCT 2008 PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



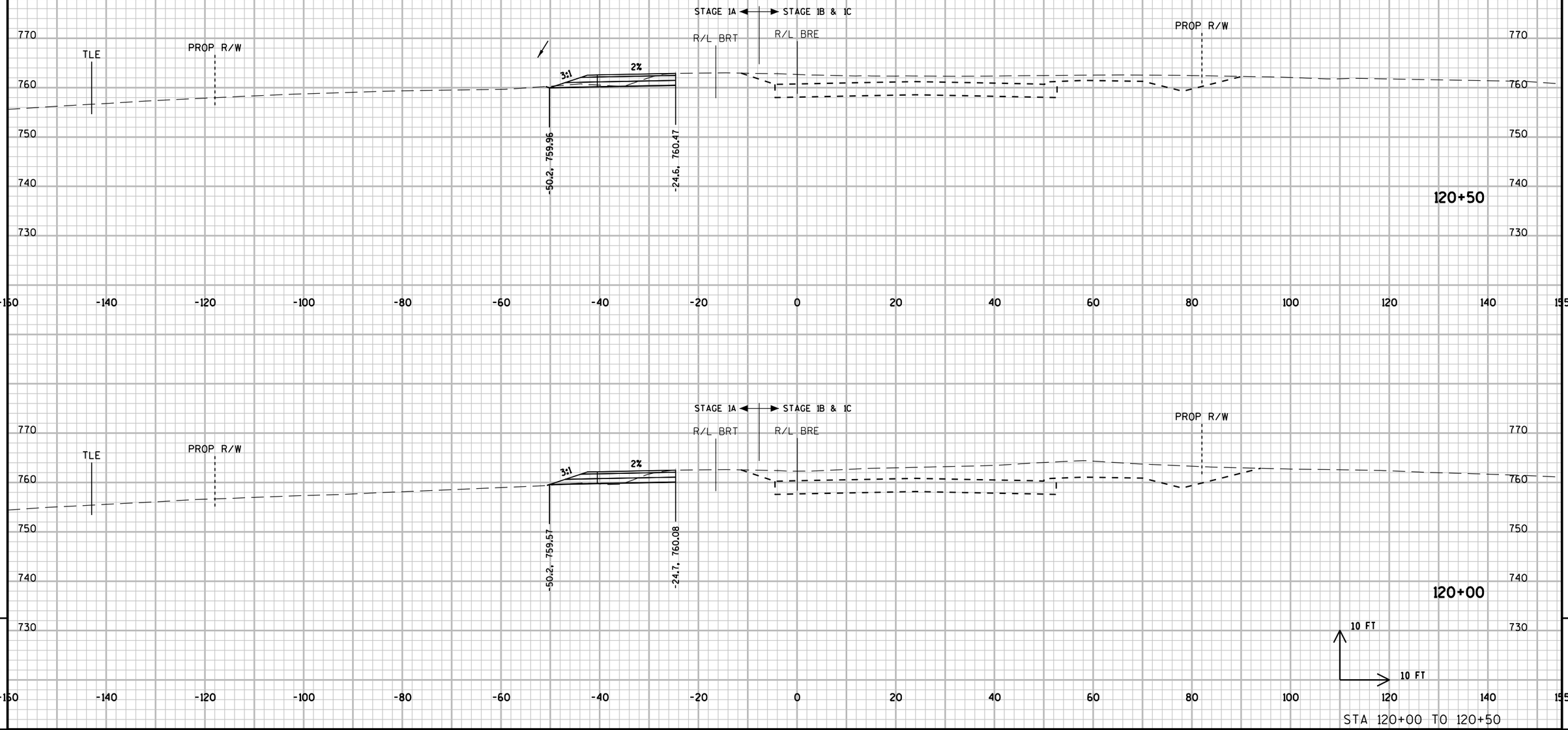
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STA 119+00 TO 119+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\11x26\27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

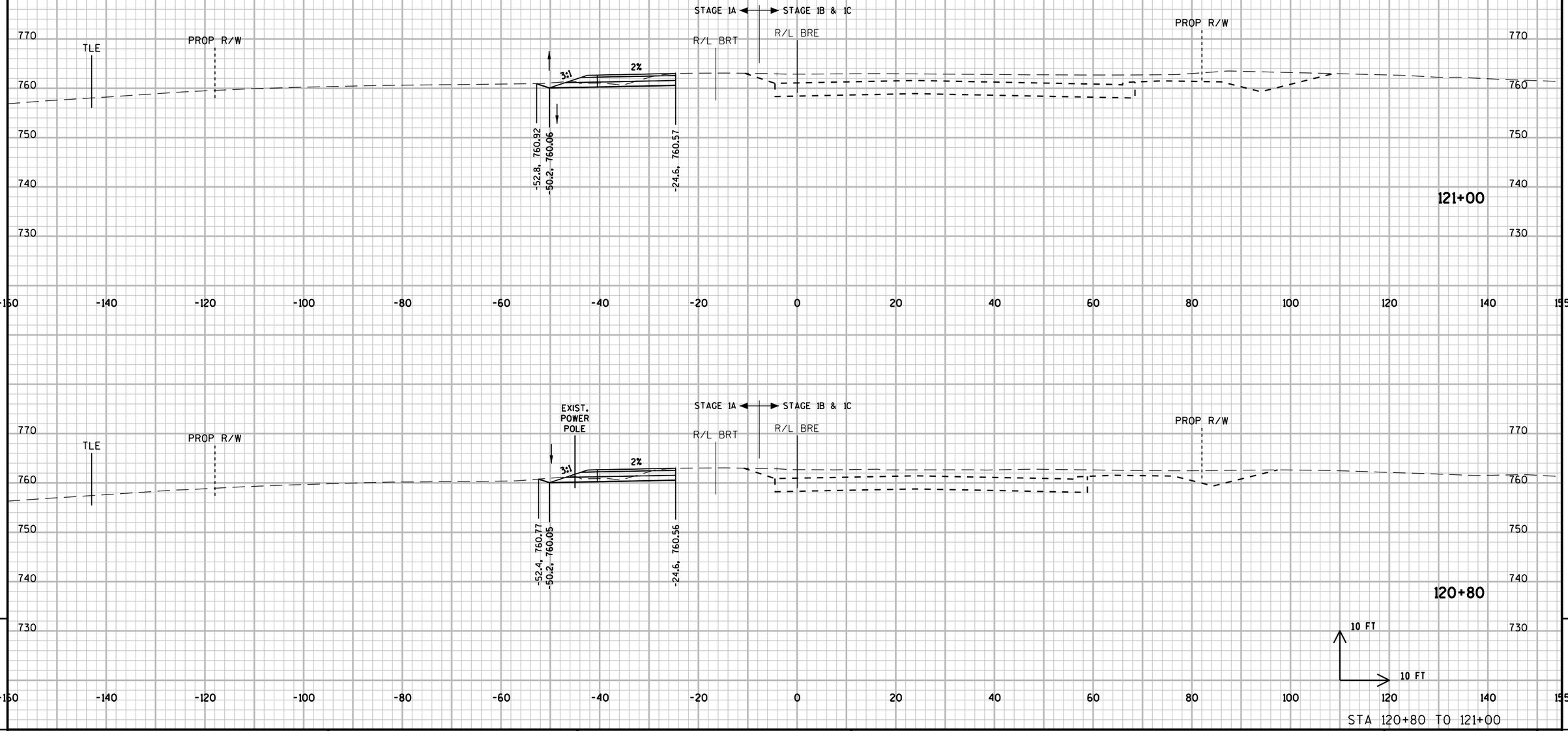


9

9

STA 120+00 TO 120+50

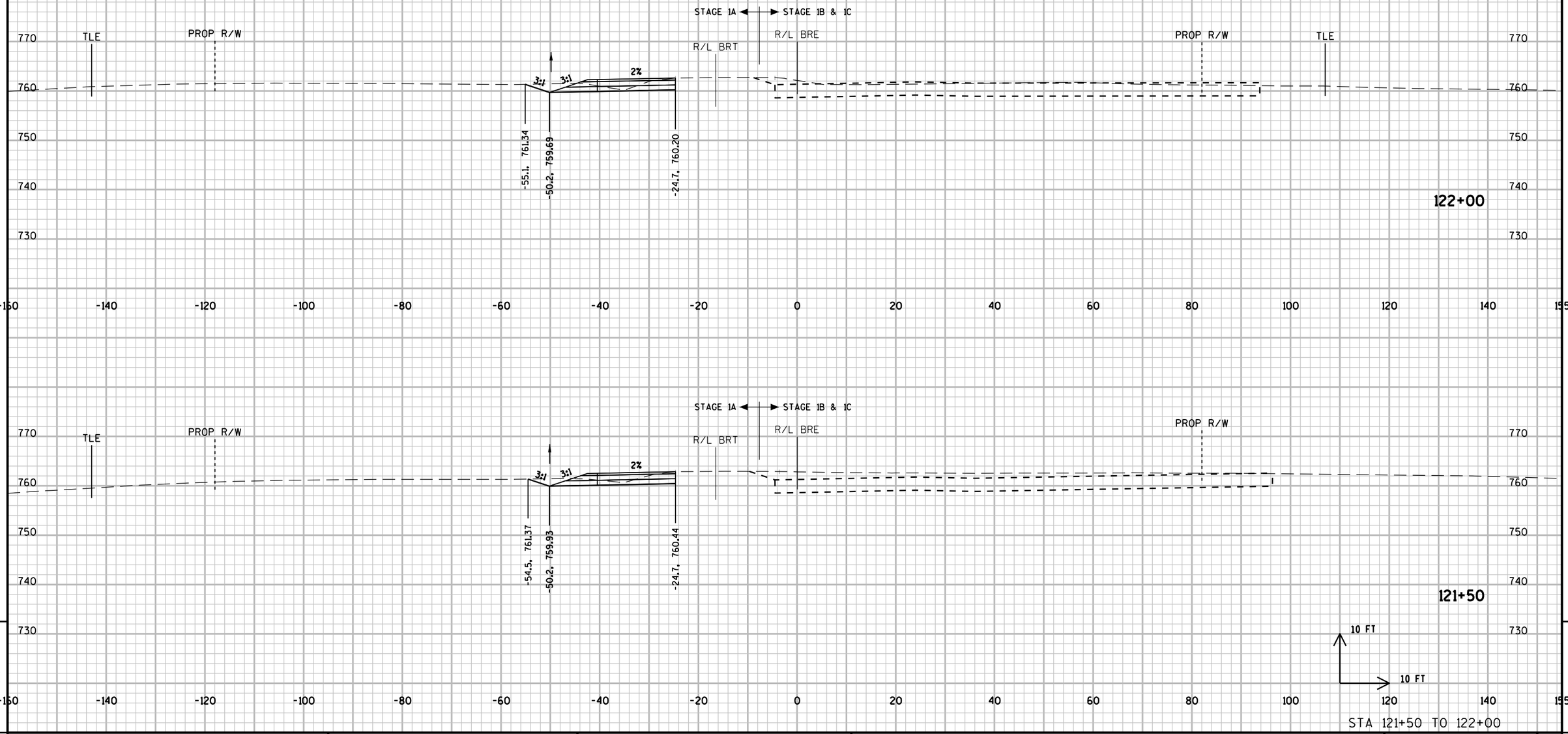
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 659	E



STA 120+80 TO 121+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 660	E

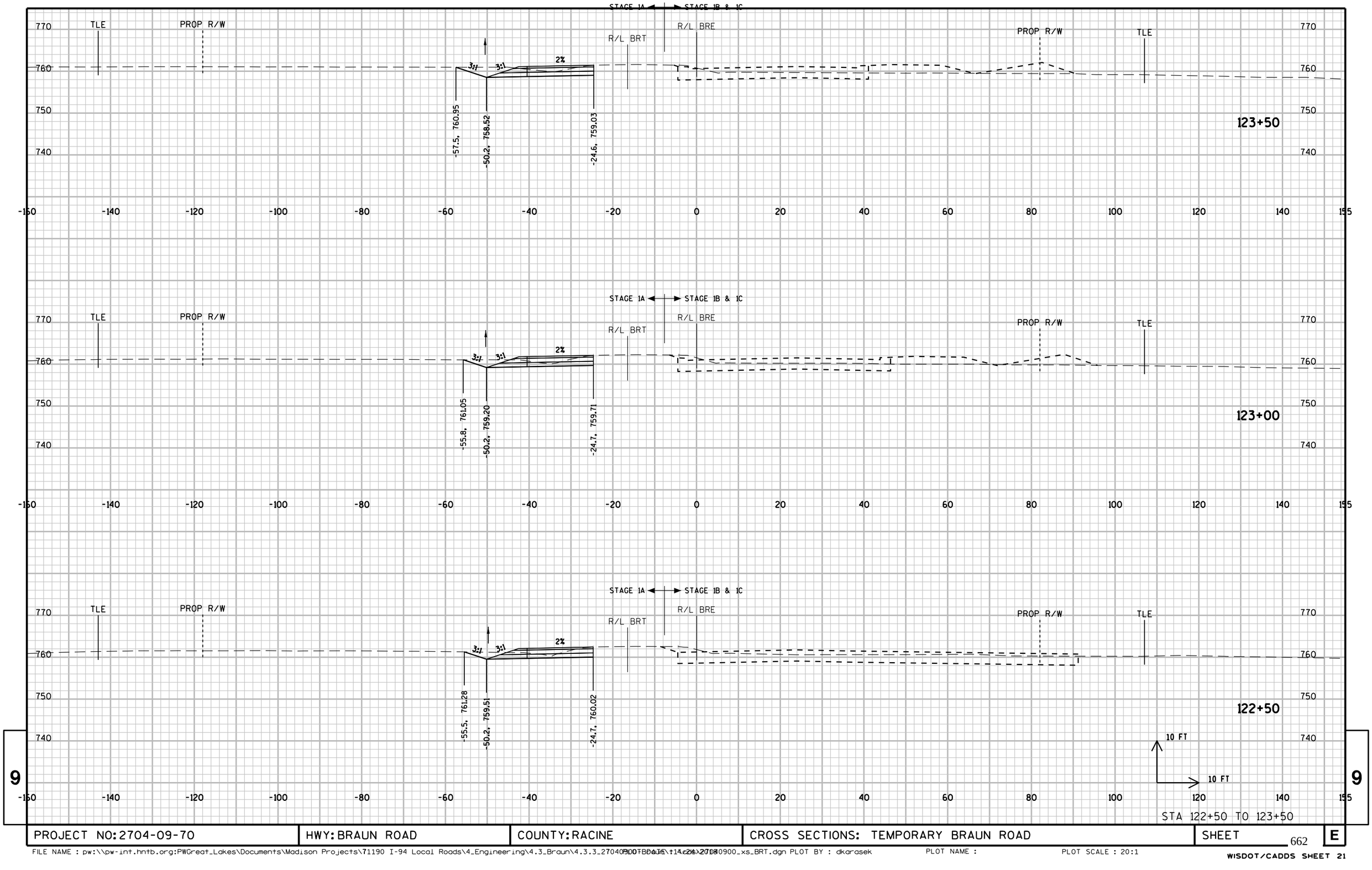
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.ctb PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1 WISDOT/CADDS SHEET 21



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\11x26\27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT DATE : 14-26-2020 PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



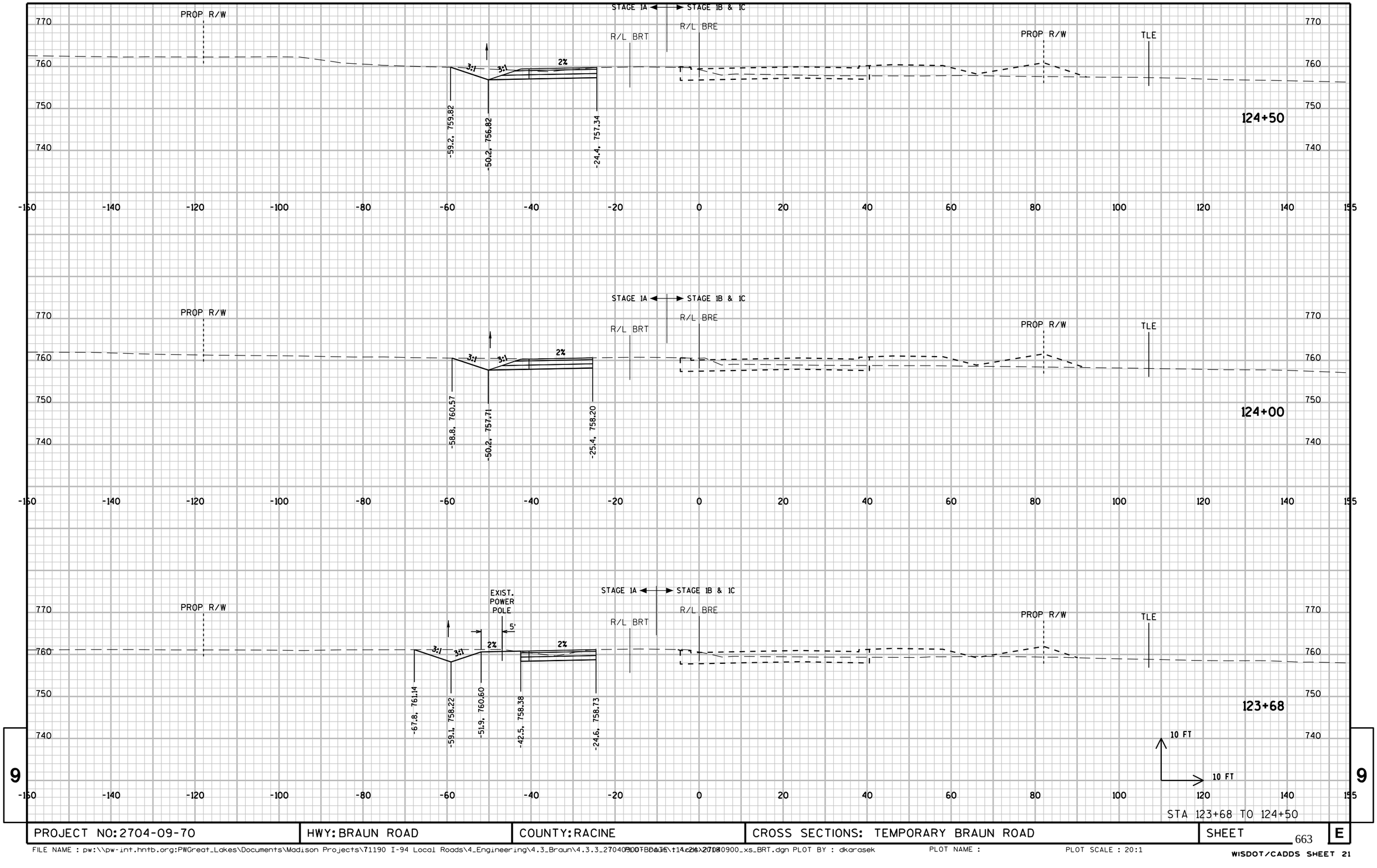
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PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

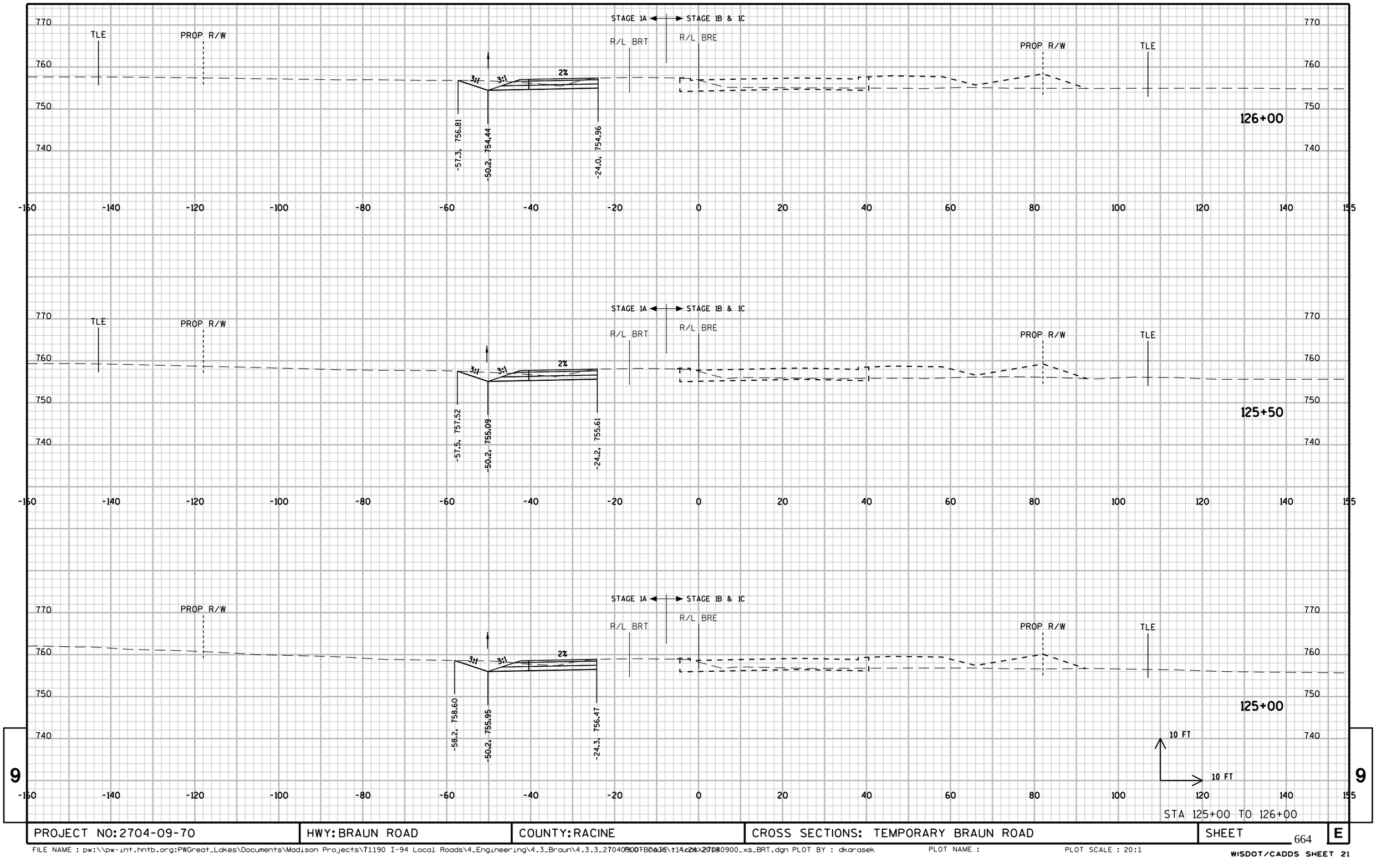
WISDOT/CADDS SHEET 21



STA 123+68 TO 124+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\14x26x2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



9

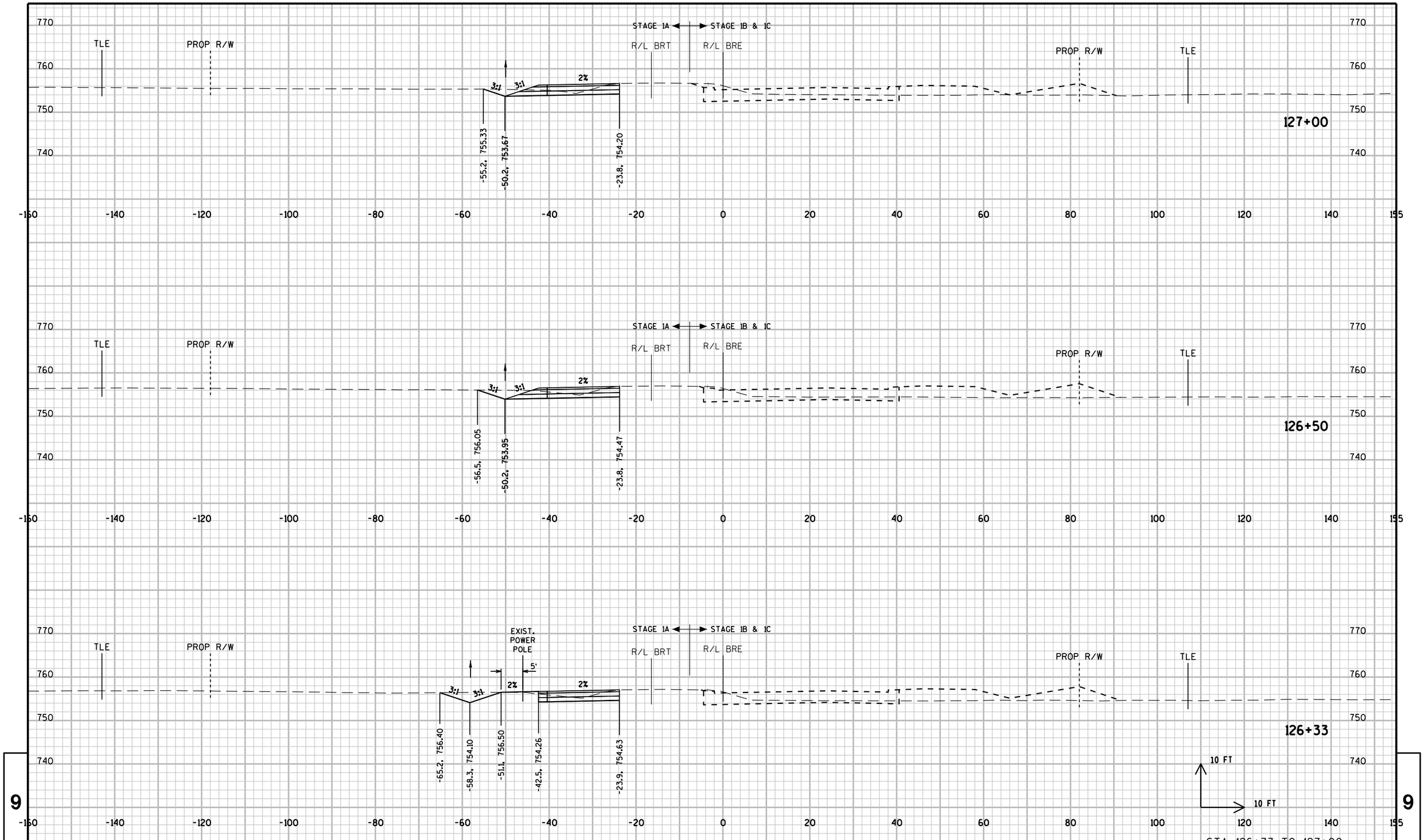
9

STA 125+00 TO 126+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD.dir\14x26x27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 126+33 TO 127+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 665	E

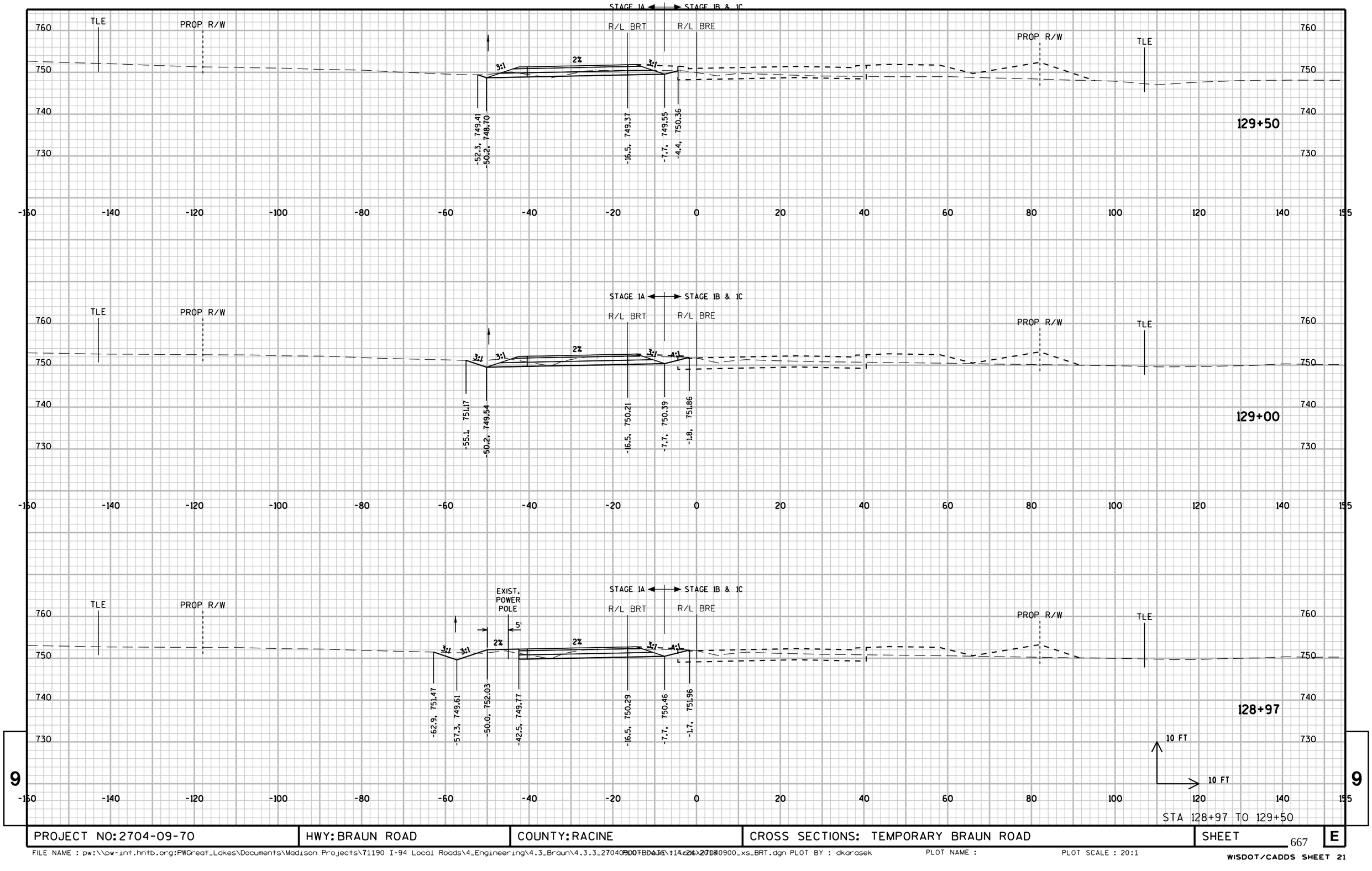
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090070_BRAUN\11x26\2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

9

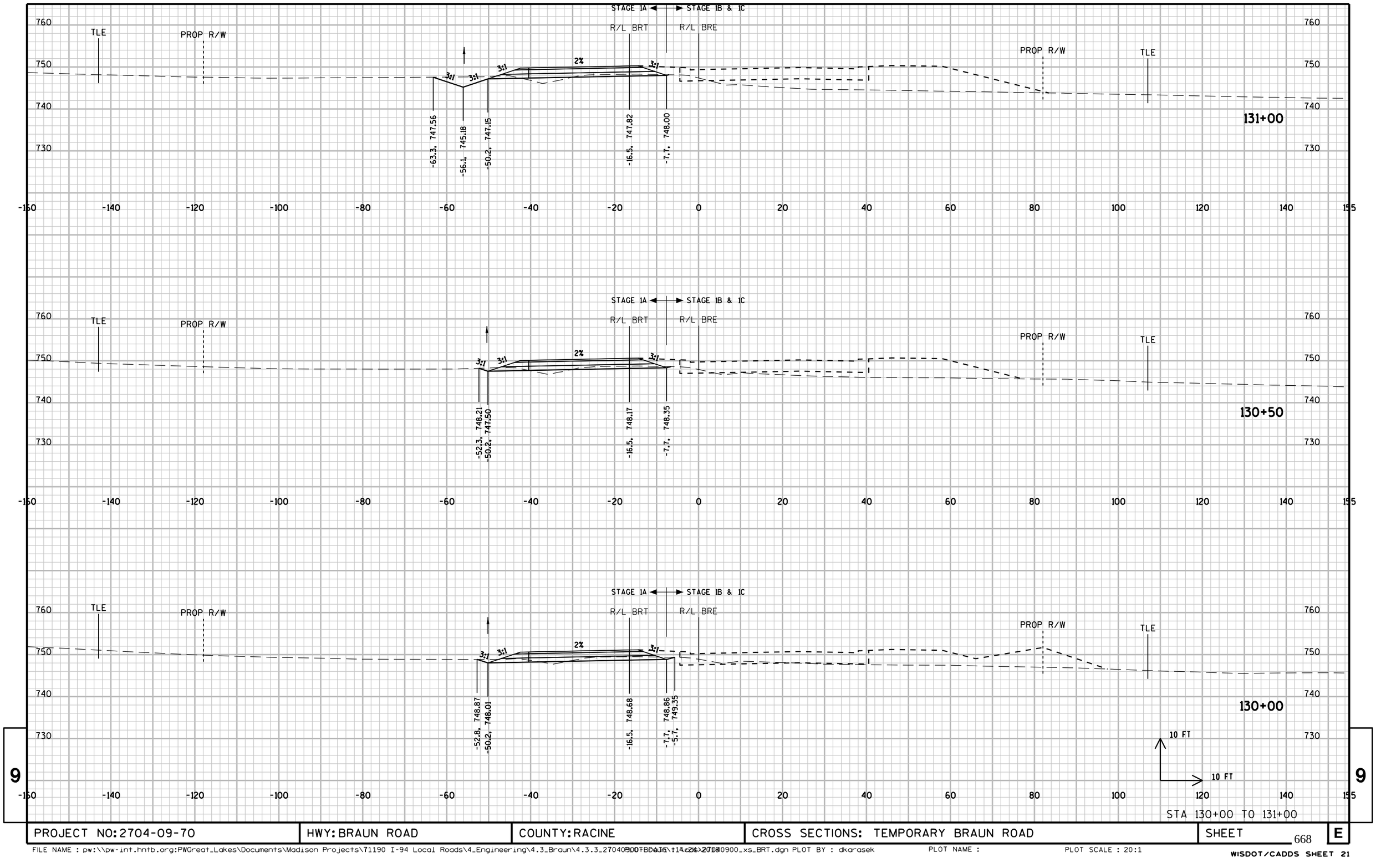
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PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 666	E



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\14x26x2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



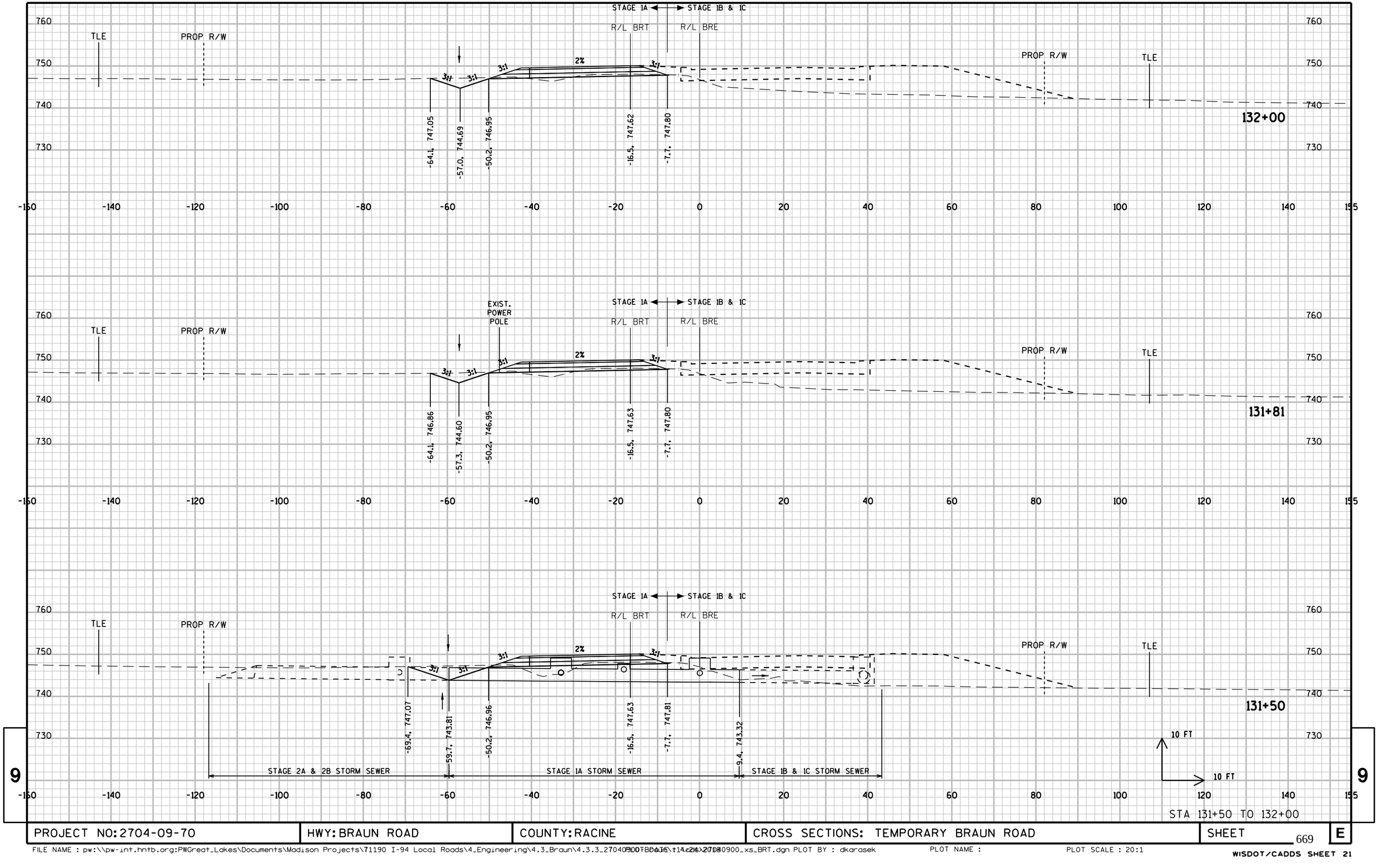
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PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

STA 130+00 TO 131+00

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090070_BRAUN\11x26\2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

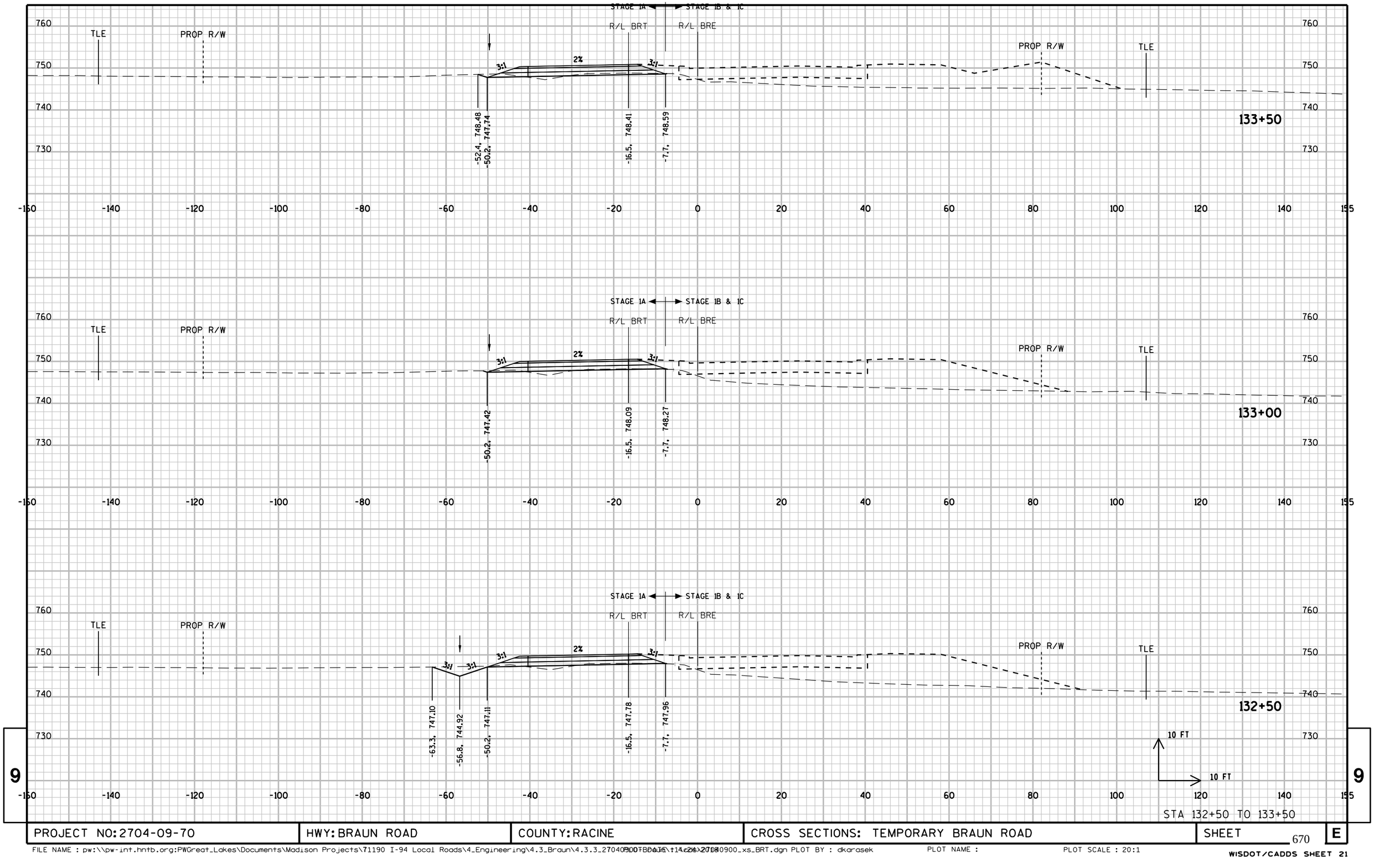


STA 131+50 TO 132+00

9

9

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 669	E



9

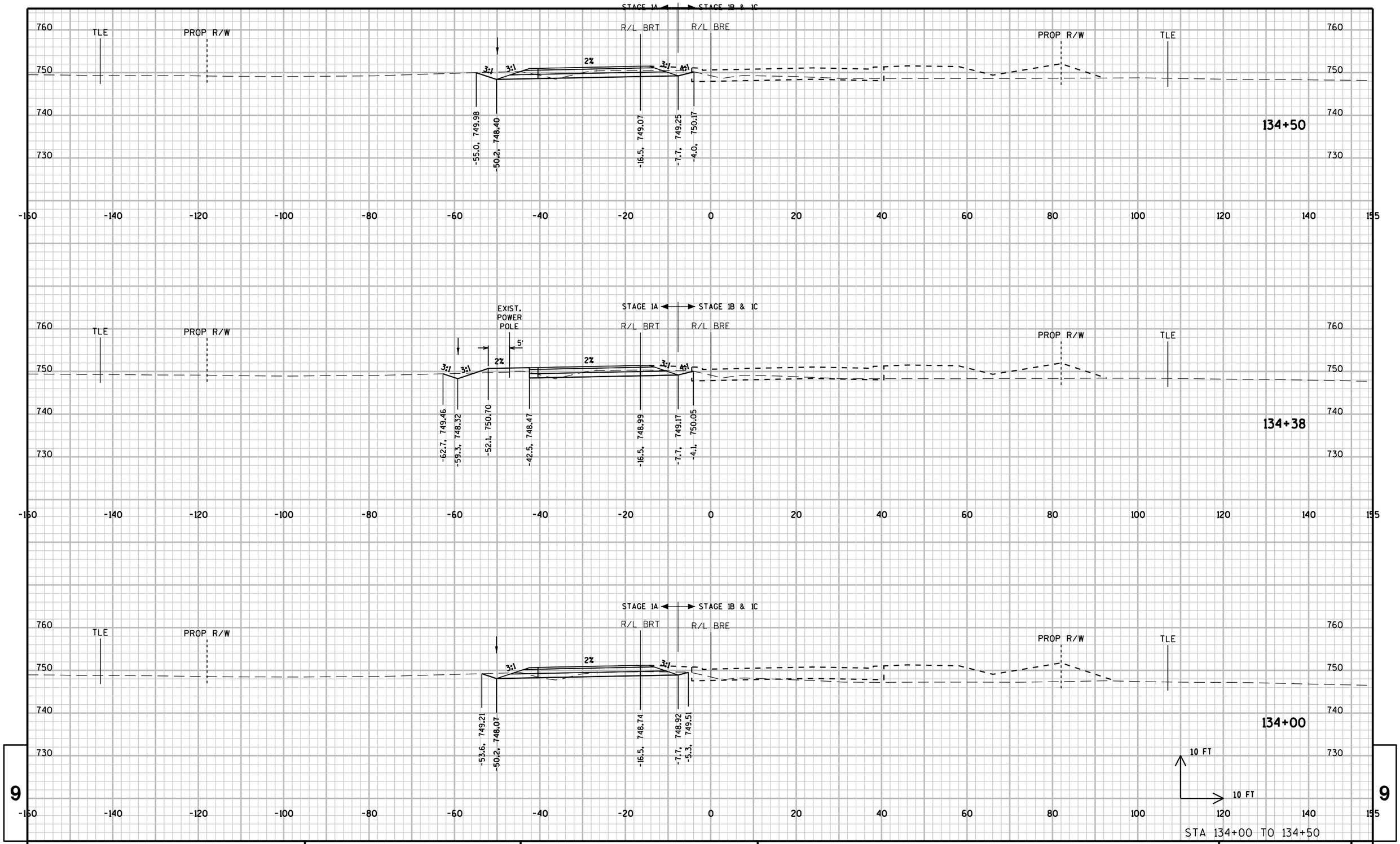
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STA 132+50 TO 133+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 670	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\t14.26x27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

9

STA 134+00 TO 134+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\14.26x20_27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

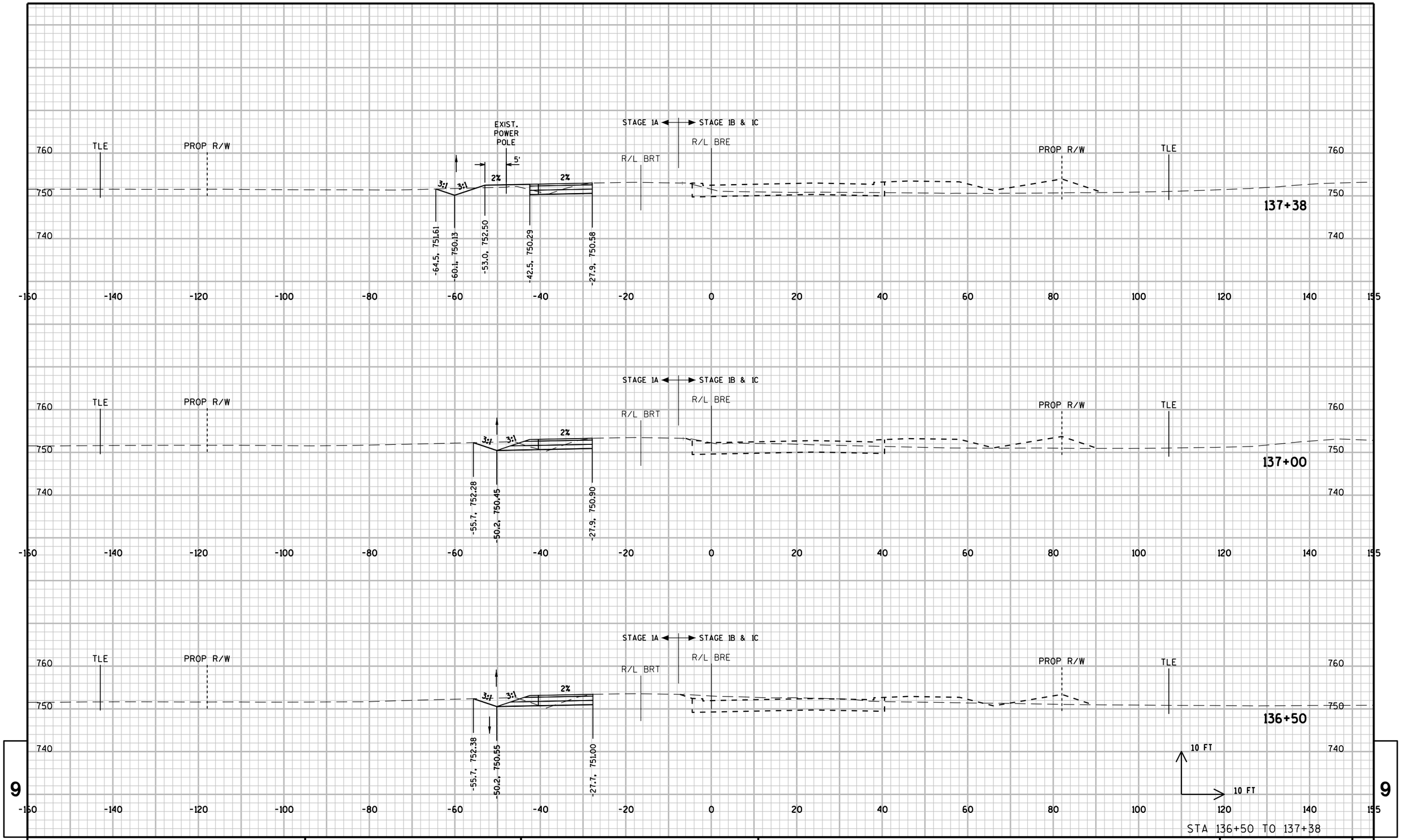
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9

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN_14x26x2708900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

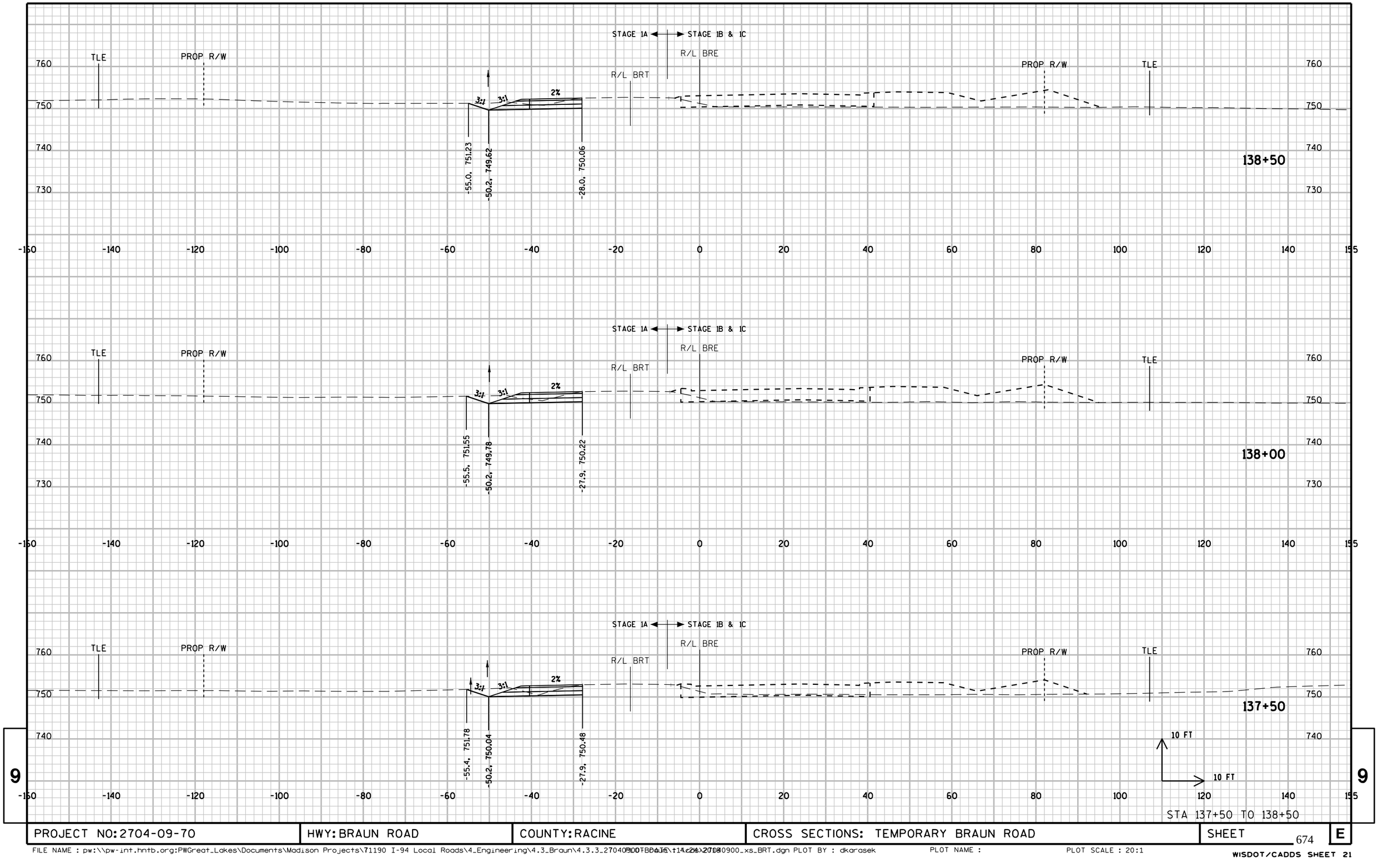
WISDOT/CADDS SHEET 21



STA 136+50 TO 137+38

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

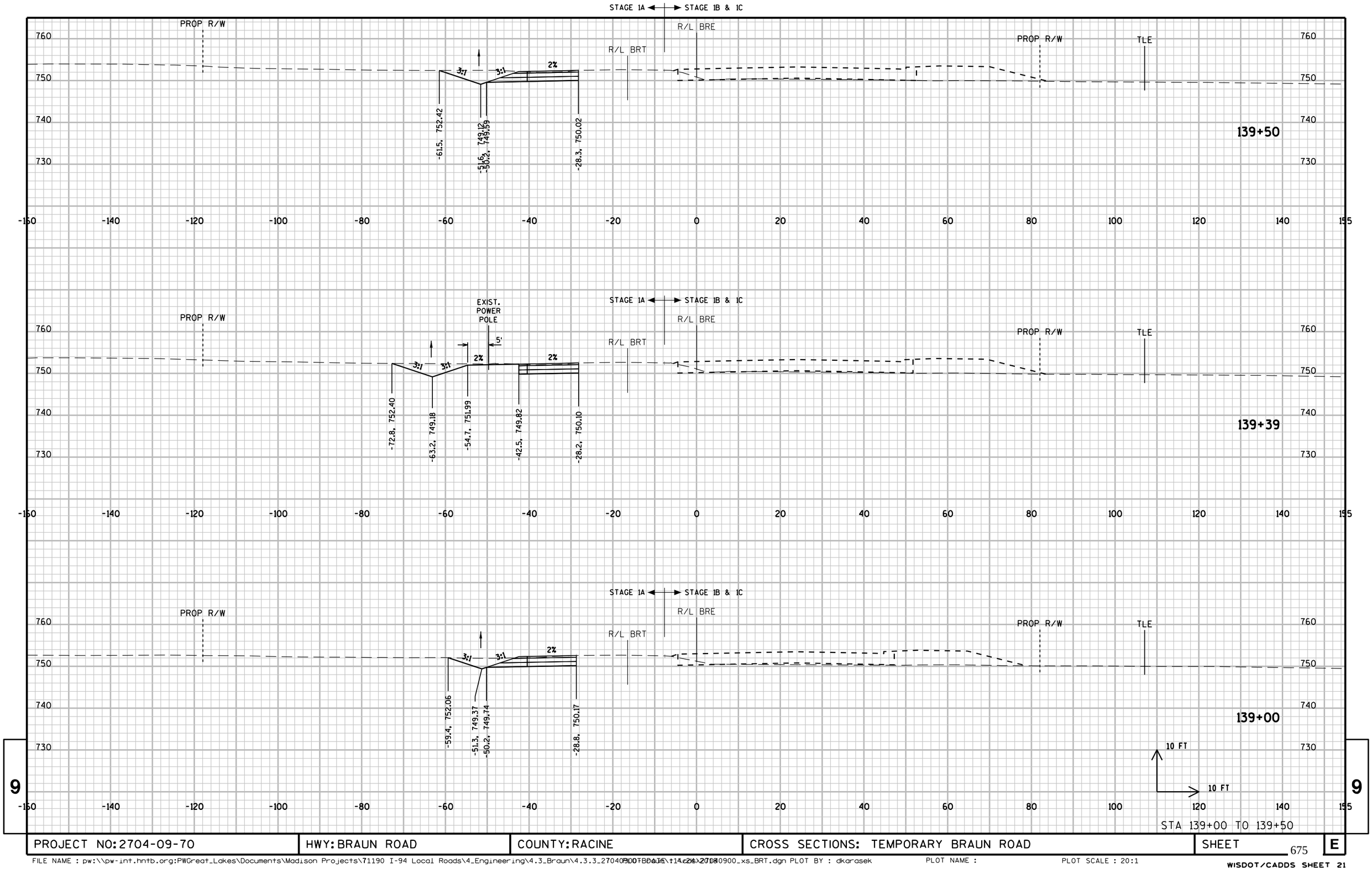
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\14.26x20\2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



STA 137+50 TO 138+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 674	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

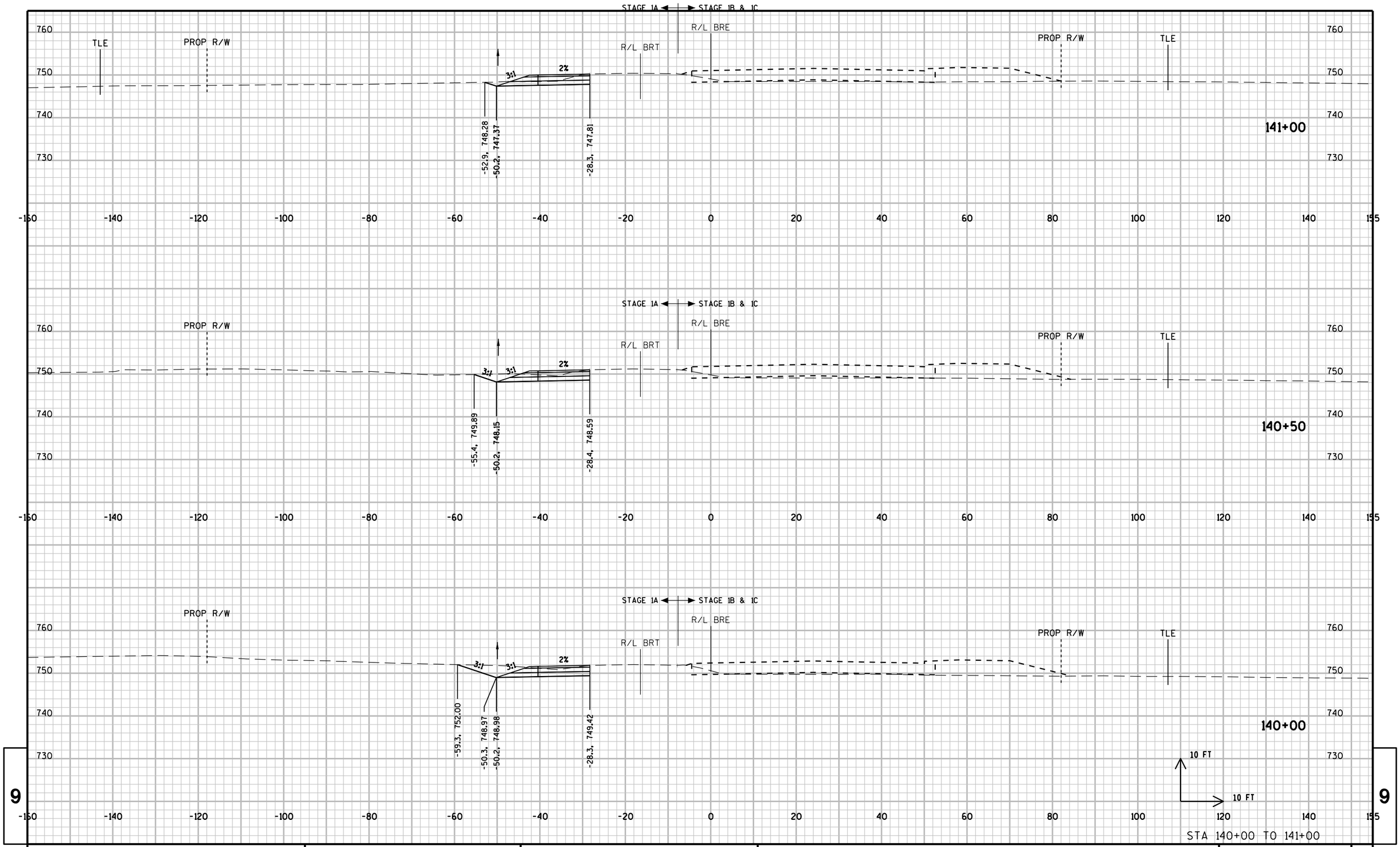


9

9

STA 139+00 TO 139+50

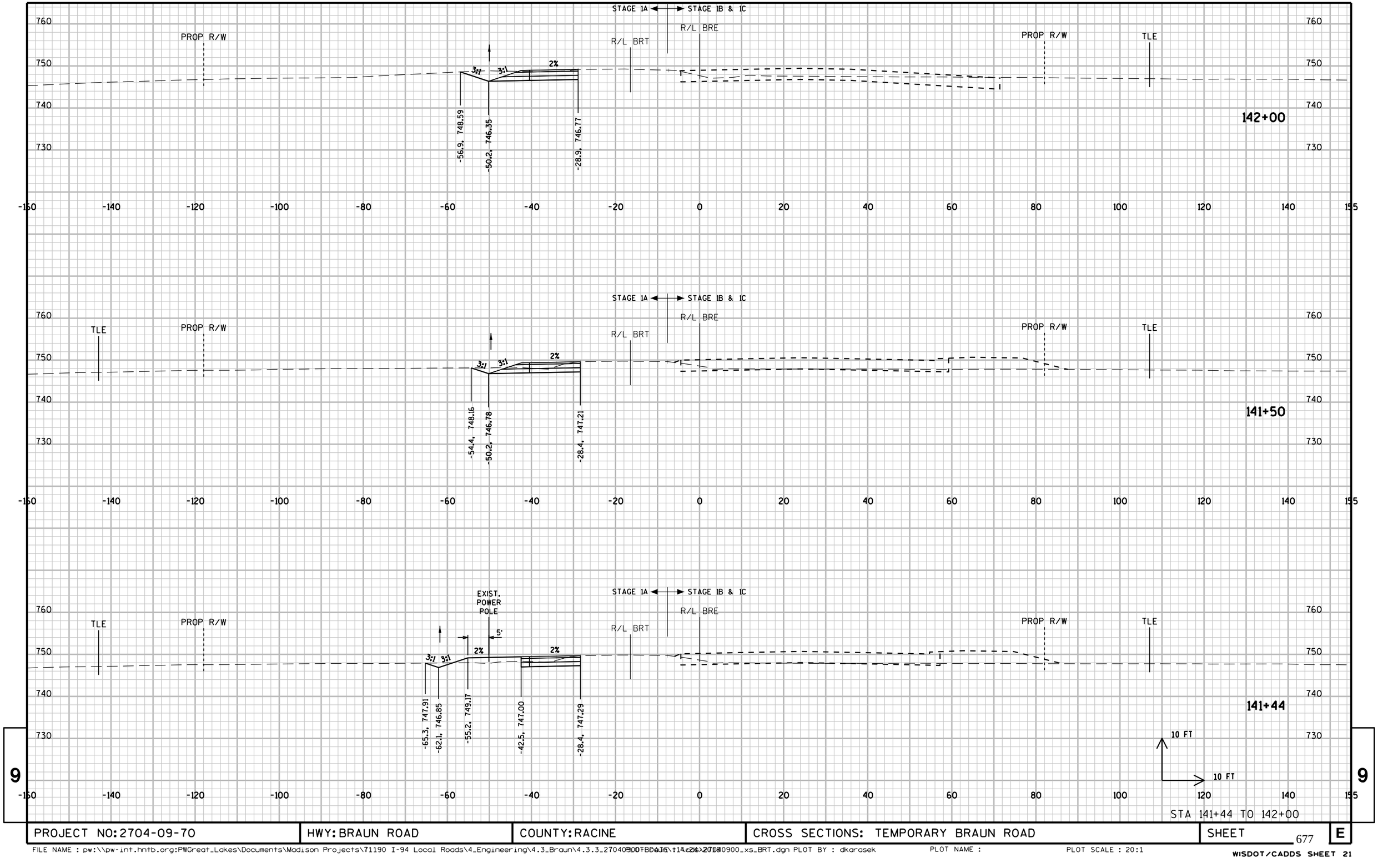
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 675	E



PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\14.26x27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 141+44 TO 142+00

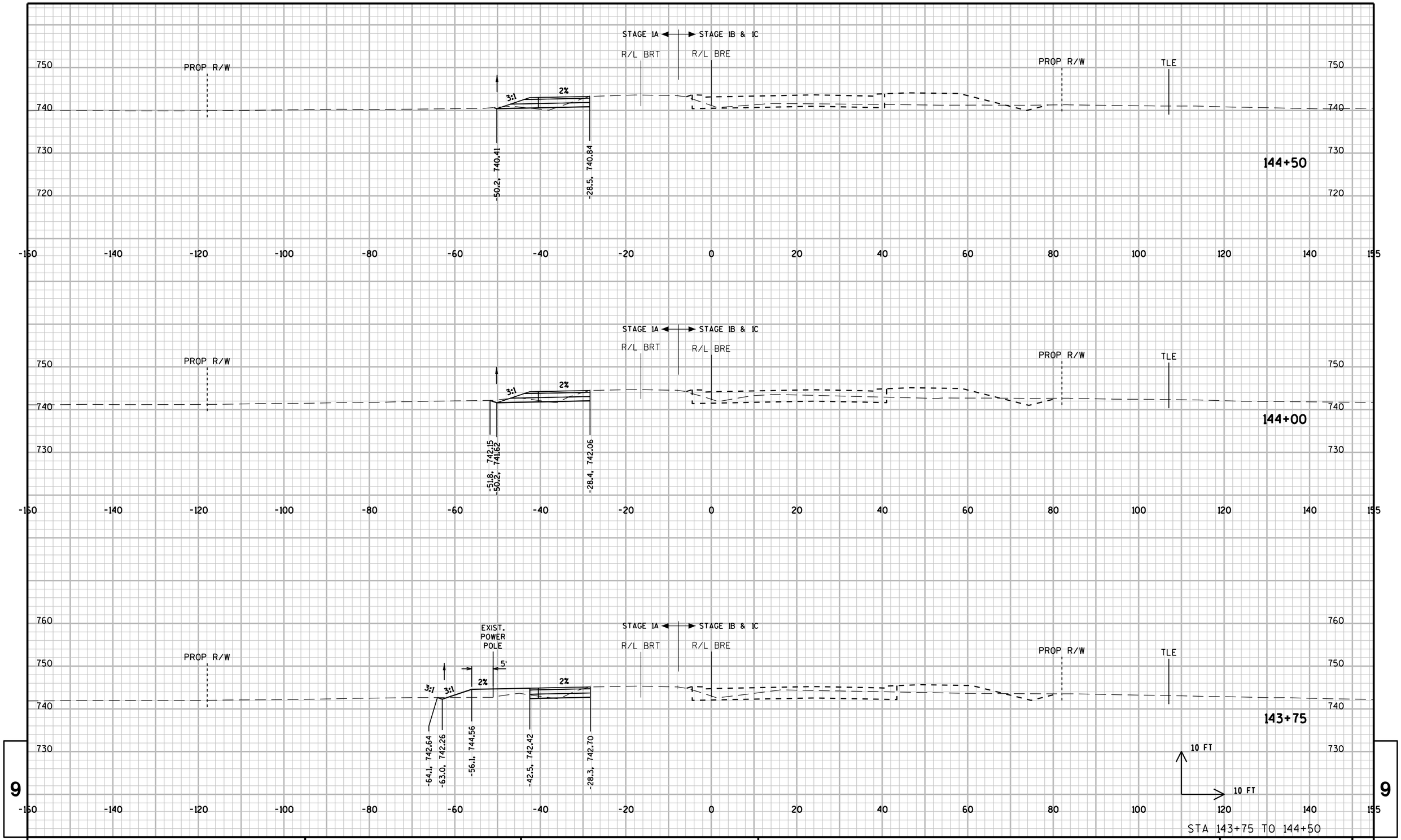
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 677	E

STA 142+50 TO 143+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 678	E

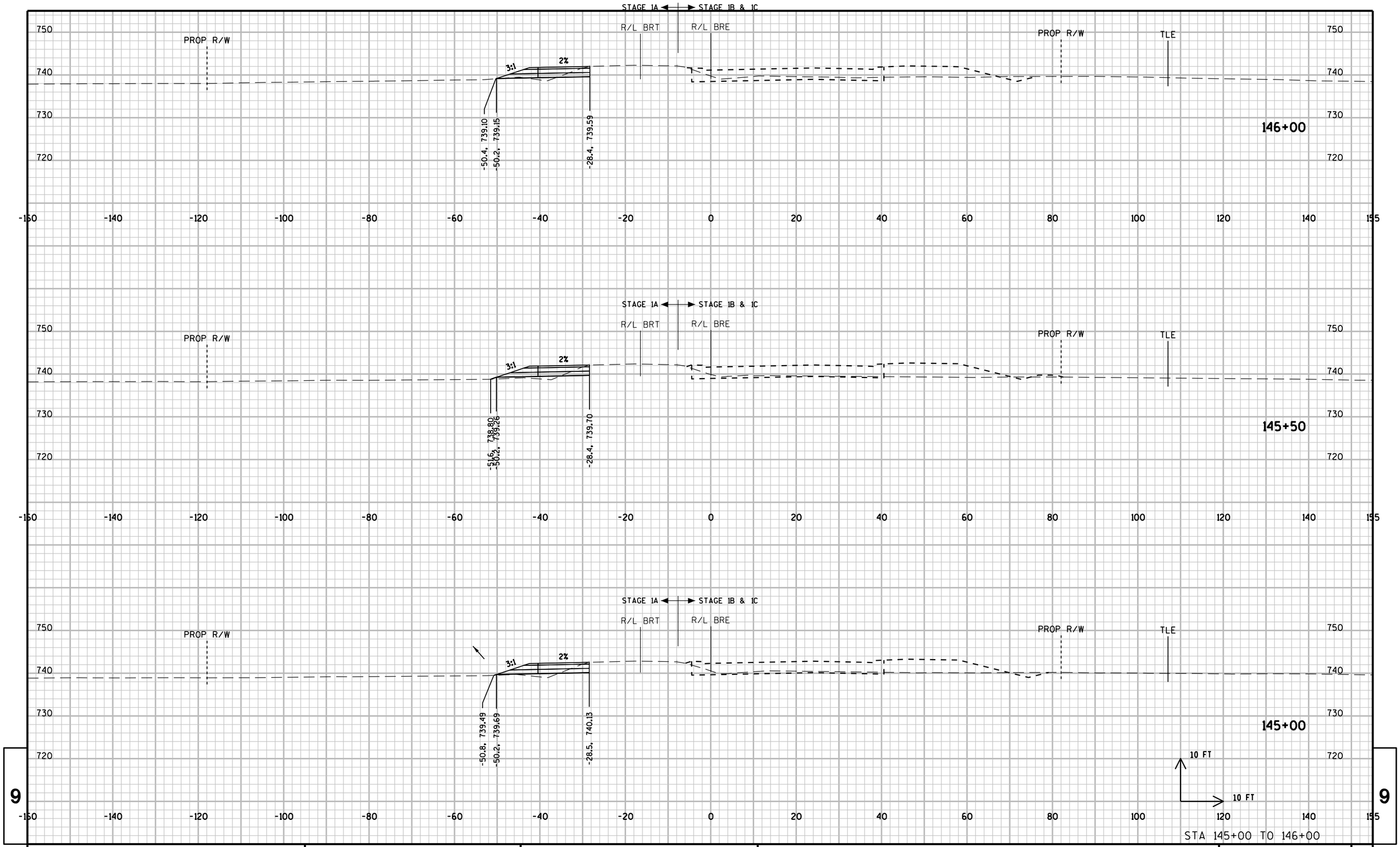
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WISDOT/CADDS SHEET 21



STA 143+75 TO 144+50

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 679	E

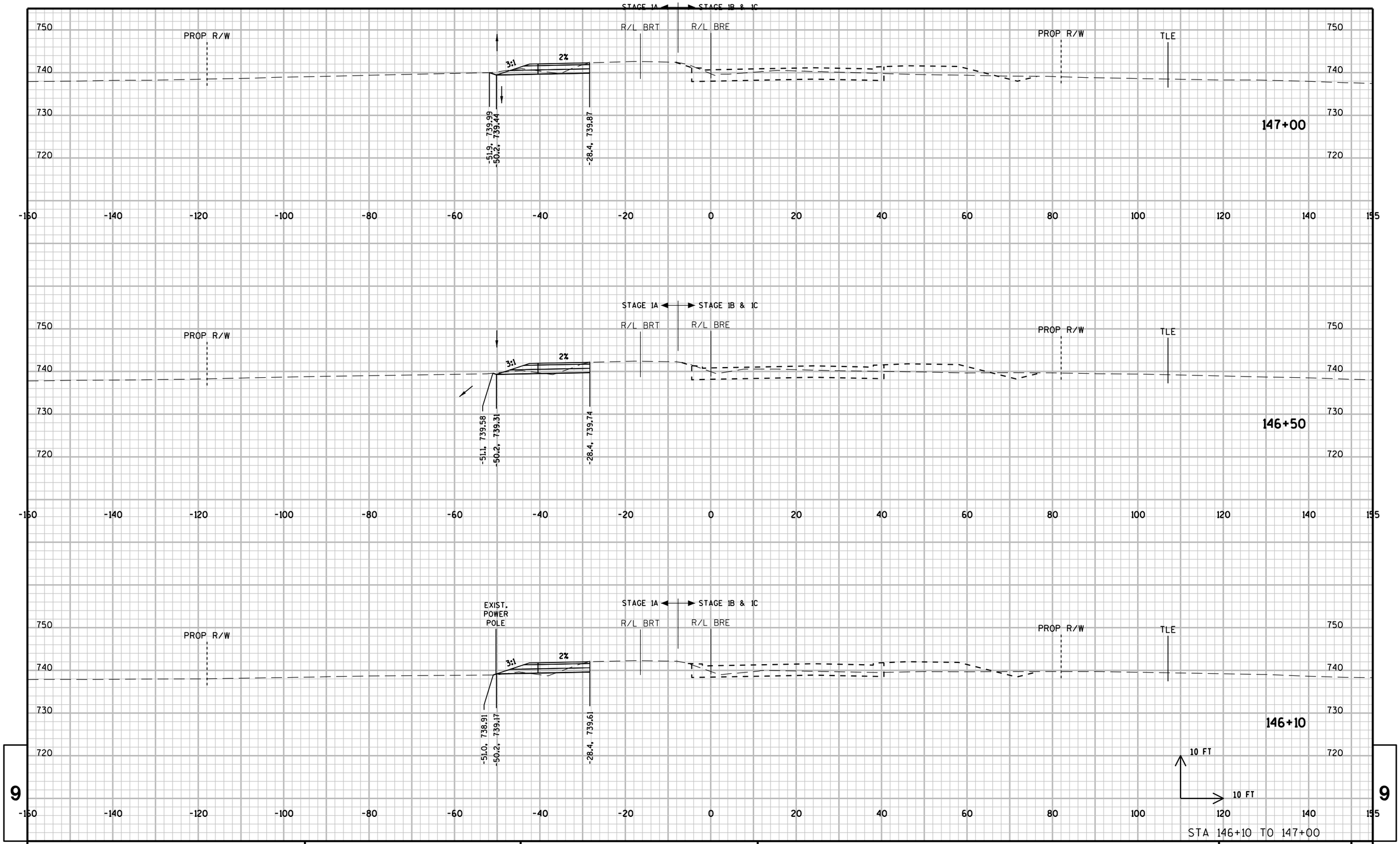


STA 145+00 TO 146+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 680	E

9

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBRAUN\14x26x2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



STA 146+10 TO 147+00

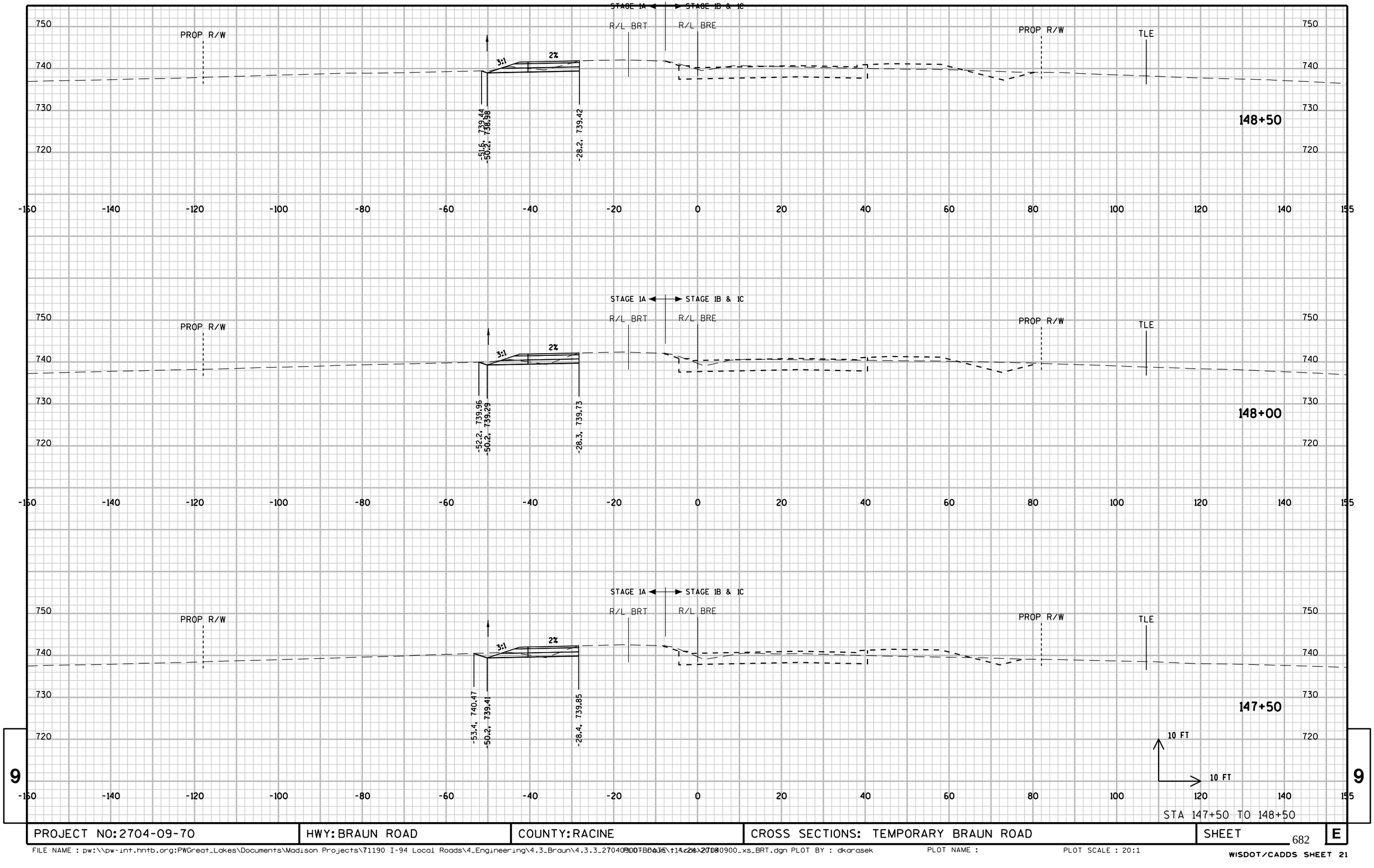
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9

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD1\5_14_26\2704090_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 147+50 TO 148+50

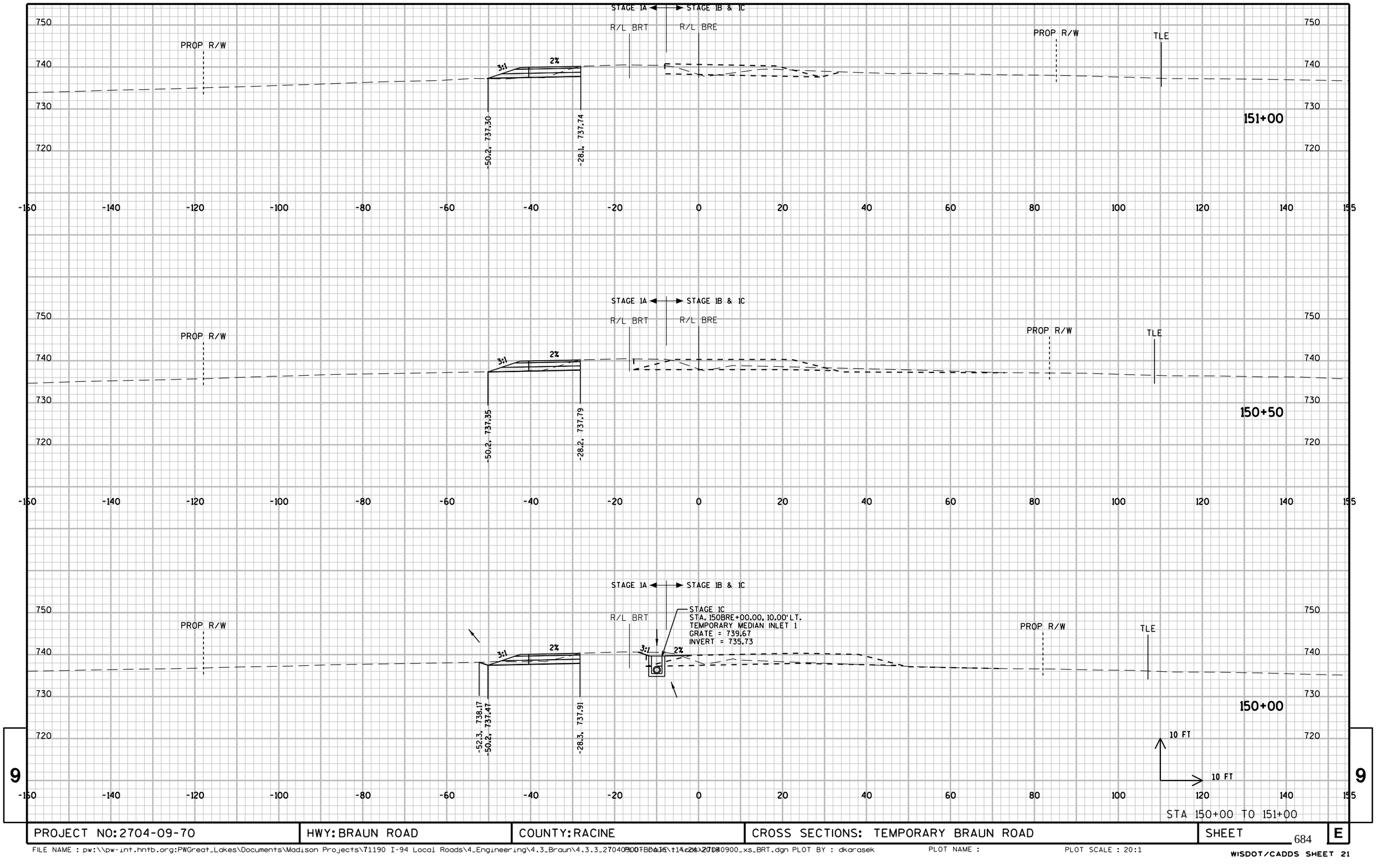
PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900_BRAUN\11x26\27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT DATE : 14 JAN 2008 PLOT NAME : PLOT SCALE : 20:1

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 683	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

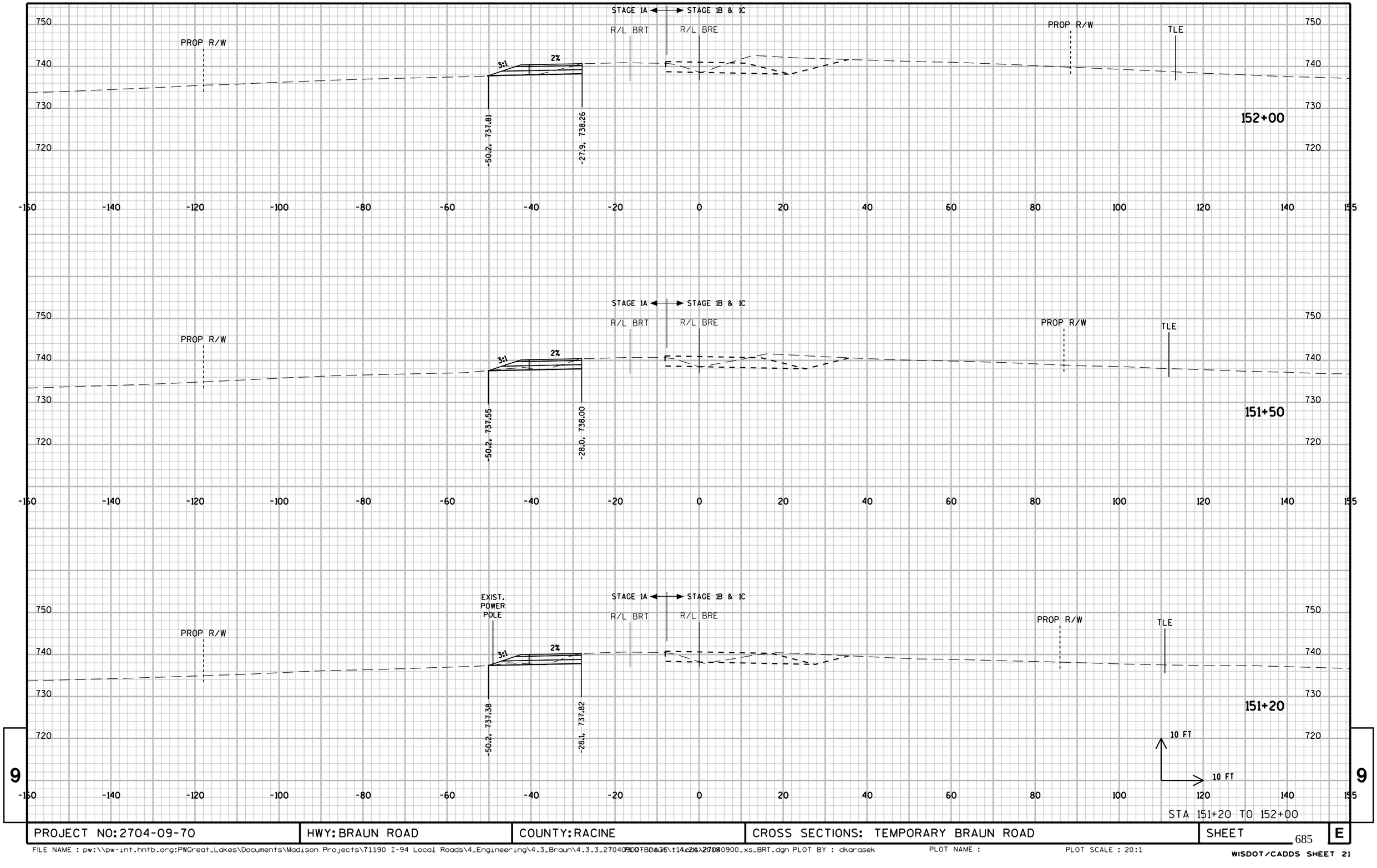


STA 150+00 TO 151+00

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 684	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD\Plan\t14_26x2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

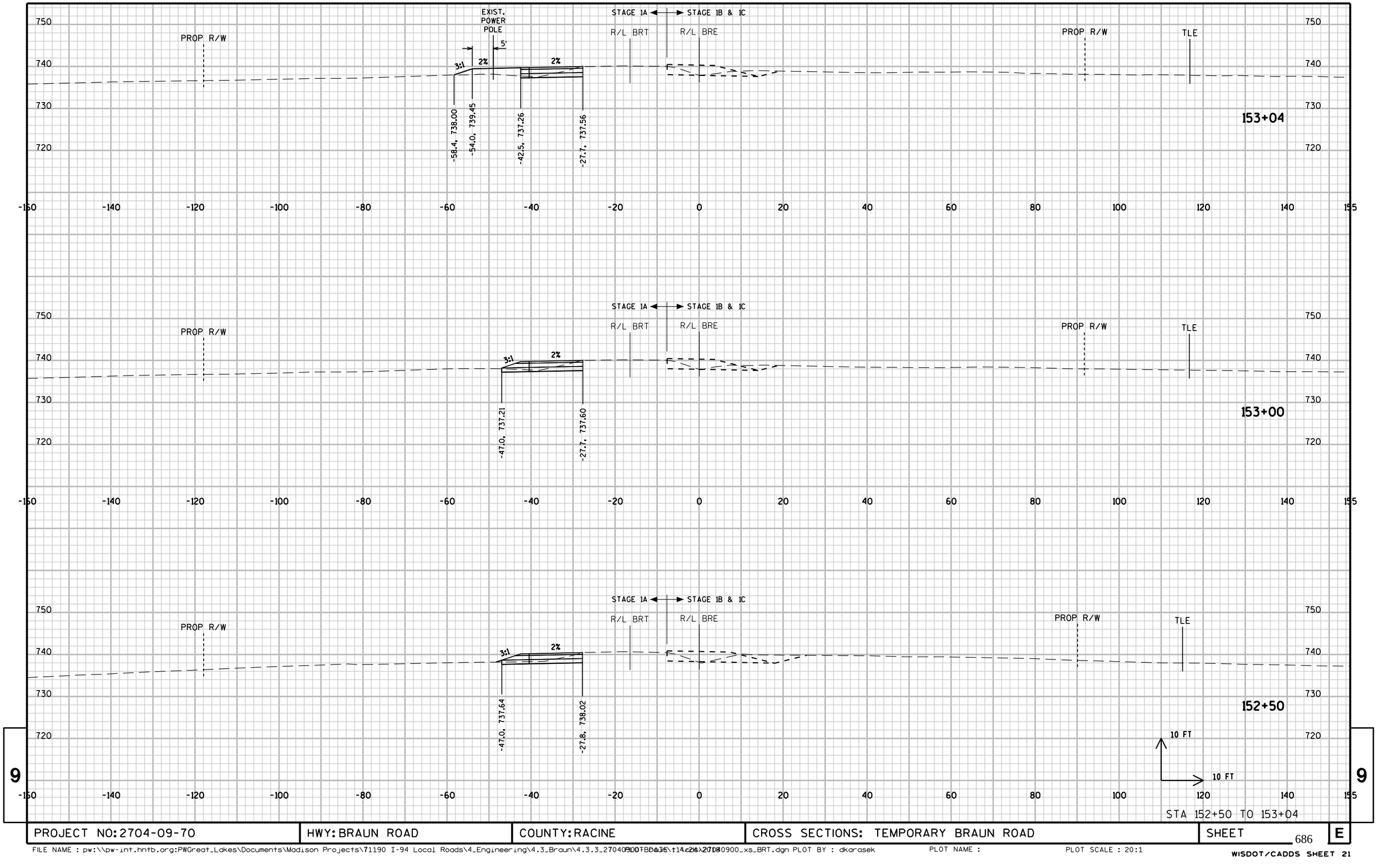


9

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PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 685	E

STA 151+20 TO 152+00



9

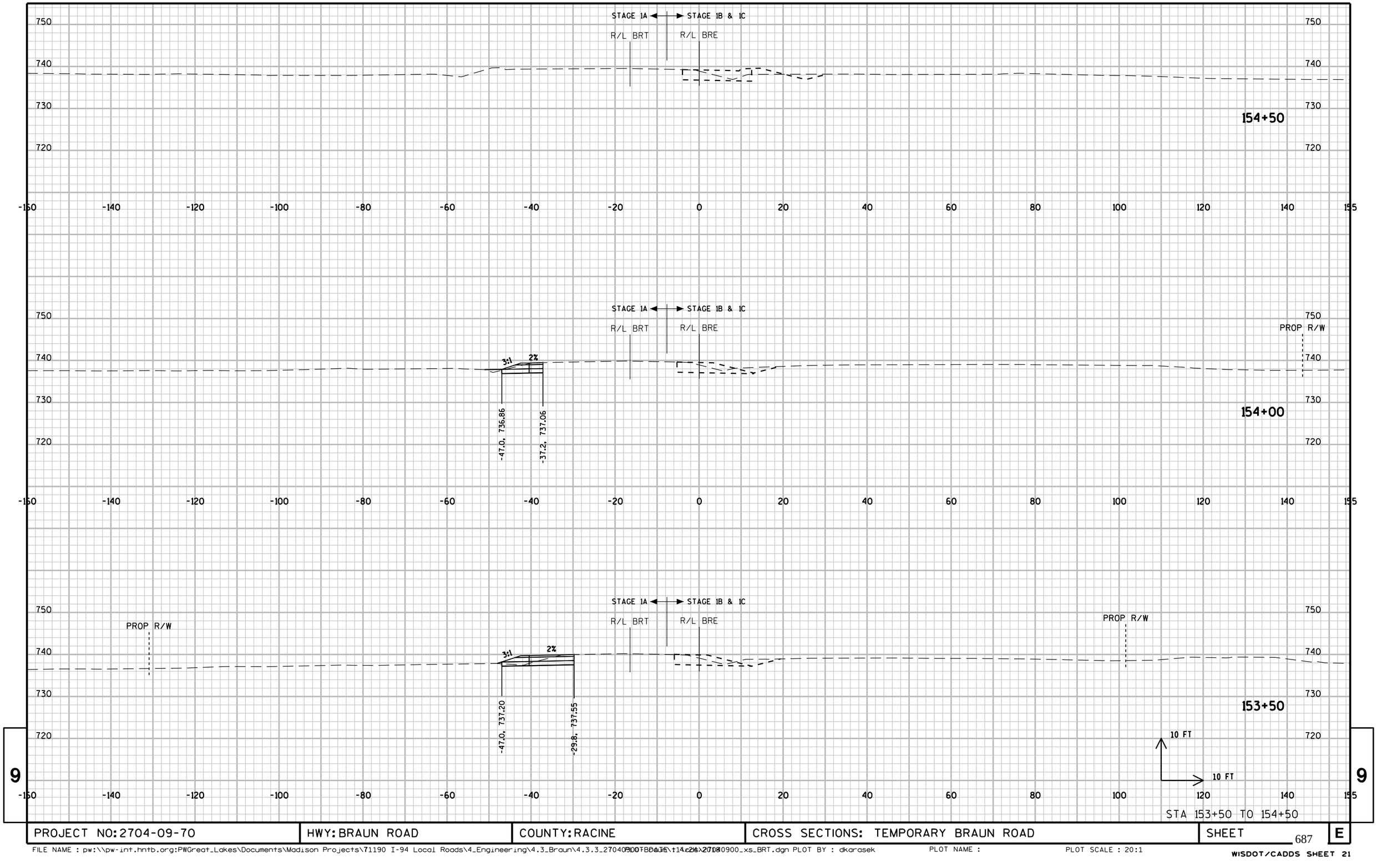
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STA 152+50 TO 153+04

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 686	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_2704090TBD\15\14.26\2704090900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 2704-09-70	HWY: BRAUN ROAD	COUNTY: RACINE	CROSS SECTIONS: TEMPORARY BRAUN ROAD	SHEET 687	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.3_27040900TBD4\[redacted]\27040900_xs_BRT.dgn PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

Wisconsin Department of Transportation

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WISCONSIN DEPARTMENT OF TRANSPORTATION

EPlans Preliminary Sheet Numbering Tool

Notes

- Acrobat 5 or higher is required to Insert Preliminary Sheet Numbers.
- The Bureau of Highway Construction Plan Examiner places sheet numbers in the final plan.
- This sheet is for placing preliminary sheet numbers with a “PRE_" prefix.
- If a plan contains multiple projects, number each plan individually.
- Leave this sheet in the plan.

TO ADD PRELIMINARY SHEET NUMBERS

1. Insert this sheet at the end of the plan

a. With the plan open in Acrobat, select Document > Insert Pages.
b. In the Select File to Insert dialog box, select this file (Preliminary_Sheet_Numbers.pdf)
c. In the Insert dialog box, choose After for Location and Last page for Page.
d. Click OK.

2. Click the Place Preliminary Sheet Numbers button

a. Go to the last sheet of the plan.
b. Click the Place Preliminary Sheet Numbers button once.
(The preliminary sheet number appears in the bottom right corner of the sheets.
The number should match the page number in the Acrobat Status bar).

3. Re-Save the PDF

a. Select File > Save As and save the PDF.

Place Preliminary Sheet Numbers

TO REMOVE PRELIMINARY SHEET NUMBERS

Remove