WKE NOV 2015

PROJECT ID: 3360-09-70
WITH: N/A

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 = 490

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3360-09-70	WISC 2015128	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

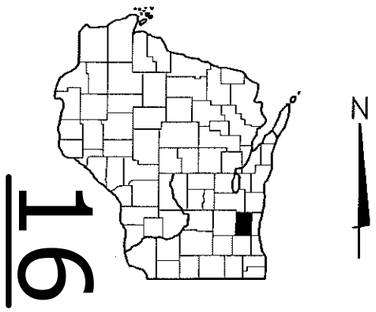
MENOMONEE FALLS - SLINGER ROAD

(BEECHWOOD INDUSTRIAL CT TO POLK STREET)

STH 175

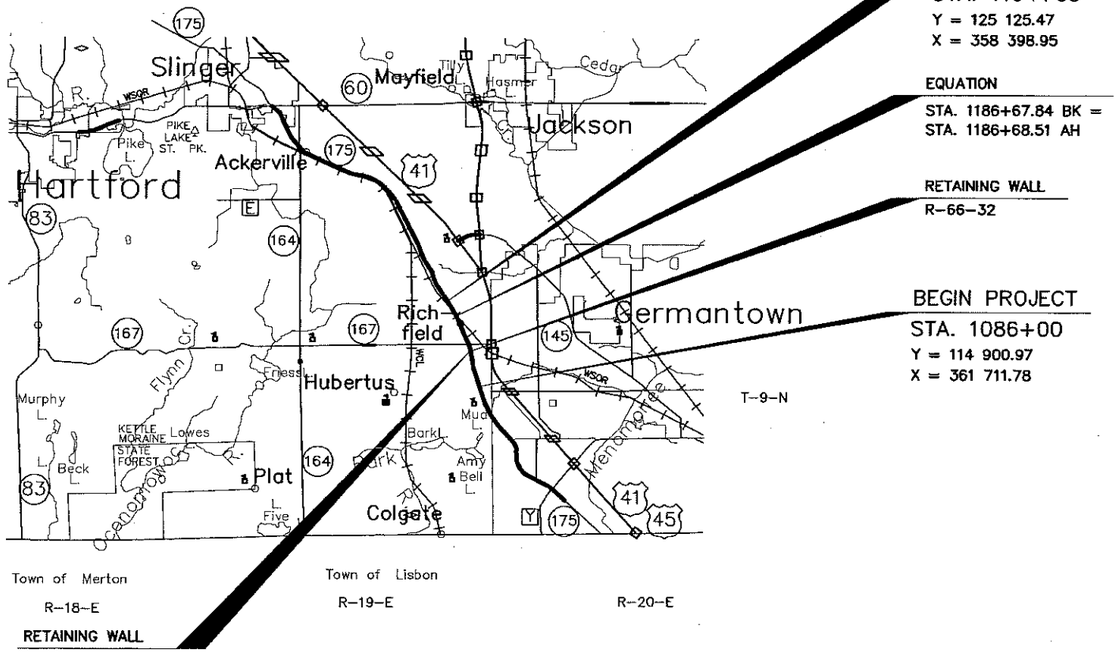
WASHINGTON COUNTY

STATE PROJECT NUMBER
3360-09-70



16

N



DESIGN DESIGNATION

		1086+00–1152+00	1152+00–1194+05	STH 167 680+50–700+19.60
A.D.T.	(2014) =	7900	5400	14,300
A.D.T.	(2034) =	8900	6500	15,700
D.H.V.	(2034) =	1100	800	1935
D.D.	=	59/41	59/41	59/41
T.	=	6.0%	6.0%	6.0%
DESIGN SPEED	=	50	35	50
ESAL'S	=	1,900,000	1,300,000	3,300,000

CONVENTIONAL SYMBOLS

PLAN
- COUNTY LINE
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED EASEMENT
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- REFERENCE LINE
- SLOPE INTERCEPT
- CULVERT IN PLACE
- CULVERT REQUIRED
- COMBUSTIBLE FLUIDS (UNDER PRESSURE) — CAUTION
- RAILROADS
- MARSH
- WOODED AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE
- CULVERT REQUIRED (Profile)

UTILITIES
- GAS — G
- ELECTRIC — E
- TELEPHONE — T
- STORM SEWER — SS
- SERVICE PEDESTAL
- CABLE MARKER
- POWER POLE
- TELEPHONE POLE

LAYOUT
SCALE 0 1 2 MI.

TOTAL NET LENGTH OF CENTERLINE = 2.046 MI.

NOTES:

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WSCS), WASHINGTON COUNTY, NAD 1983 (97).

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88 (91).

ORIGINAL PLANS PREPARED BY

WESTBROOK ASSOCIATED ENGINEERS, INC.
SPRING GREEN, WISCONSIN 53588

WISCONSIN
AARON B. PALMER
E-35695
RICHLAND CENTER, WI
PROFESSIONAL ENGINEER

10/28/14 (Date) Aaron B Palmer (Signature)

WESTBROOK Associated Engineers, Inc.
619 EAST HOXIE STREET
P.O. BOX 429
SPRING GREEN, WI 53588
PHONE (608) 588-7866
FAX (608) 588-7954

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor Westbrook Associated Engineers Inc.
Designer Westbrook Associated Engineers Inc.
Project Manager Doug Cain
Regional Examiner
Regional Supervisor Ben Eruchalu
C.O. Examiner

APPROVED FOR THE DEPARTMENT
DATE 10-29-14 Douglas A Cain (SIGNATURE)

E

COUNTY: WASHINGTON

MUNICIPAL CONTACTS

VILLAGE OF GERMANTOWN
DIRECTOR OF PUBLIC WORKS
N112 W17001 MEQUON ROAD
P.O. BOX 337
GERMANTOWN, WI 53022

ATTN: DANIEL LUDWIG
PHONE: (262) 250-4721
dludwig@village.germantown.wi.us

VILLAGE OF SLINGER
VILLAGE ENGINEER
300 SLINGER ROAD
SLINGER, WI 53086-0227

ATTN: JIM HAGGERTY
PHONE: (262) 644-5265 (EXT. 135)
jhaggerty@vi.slinger.wi.gov

VILLAGE OF RICHFIELD
DEPARTMENT OF PUBLIC WORKS SUPERVISOR
4128 HUBERTUS ROAD
RICHFIELD, WI 53033

ATTN: MIKE GAUTHIER
PHONE: (262) 628-1381
DPW@richfieldwi.gov

TOWN OF POLK
TOWN CHAIRMAN
4026 PIONEER ROAD
RICHFIELD, WI 53076

ATTN: ALBERT SCHULTEIS
PHONE: (262) 677-2123
twpolk@nconnect.net

WASHINGTON COUNTY HIGHWAY
HIGHWAY COMMISSIONER
900 LANG STREET
WEST BEND, WI 53095

TOM WONDRA
PHONE: (262) 335-4437
tom.wondra@co.washington.wi.us

WASHINGTON COUNTY ENGINEER/SURVEYOR
333 EAST WASHINGTON ST, SUITE 2300
P.O. BOX 2003
WEST BEND, WI 53095

SCOTT SCHMIDT, PE, RLS
PHONE: (262) 335-6881
scottschmidt@co.washington.wi.us

WisDNR LIAISON

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
2300 N. DR. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212-3128

ATTN: KRISTINA BETZOLD
PHONE: (414) 263-8517
kristina.betzold@wisconsin.gov

WisDOT LIAISON

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
141 NW BARSTOW STREET
WAUKESHA, WI 53187

ATTN: DOUG CAIN, PE
PHONE: (262) 548-5603
douglas.cain@dot.wi.gov

CONSULTANT DESIGNER

WESTBROOK ASSOCIATED ENGINEERS, INC.
619 E. HOXIE STREET
P.O. BOX 429
SPRING GREEN, WI 53588

ATTN: AARON PALMER, P.E.
(608) 588-7866
apalmer@westbrookeng.com

GENERAL NOTES

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

THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE, SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

PROPERTY LINES AS SHOWN ON THE PLANS ARE APPROXIMATE.

ALL RADIUS DIMENSIONS ON THE PLAN FOR CURB & GUTTER ARE TO THE FLANGE UNLESS OTHERWISE NOTED.

THE EXACT LOCATION OF PRIVATE ENTRANCES IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

CONTACT SCOTT SCHMIDT, WASHINGTON COUNTY ENGINEER/SURVEYOR AT (262) 335-6881 TO PERPETUATE THE SECTION CORNER TWO WEEKS PRIOR TO START OF CONSTRUCTION AND TWO WEEKS PRIOR TO SECTION CORNER REPLACEMENT.

SIDEWALK AND SHARED-USE PATH CROSS SLOPES SHALL BE 1.5% WITH A CONSTRUCTION TOLERANCE OF ±0.5%, AS STATED ON SDD CURB RAMPS.

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

RAILROADS

WISCONSIN & SOUTHERN RAILROAD COMPANY
1890 E. JOHNSON STREET
MADISON, WI 53704

ATTN: ROGER SCHAALMA
(608) 620-2044
rschaalma@watcocompanies.com

UTILITIES

CHARTER COMMUNICATIONS
2312 CONTINENTAL DRIVE
WEST BEND, WI 53095

ATTN: TOM HARYCKI
OFFICE: (262) 306-8756
CELL: (262) 416-2437
tharycki@chartercom.com

AT&T WISCONSIN
7721 W. FOND DU LAC AVE., 1st FLOOR
MILWAUKEE, WI 53218

ATTN: KEVIN ANDERSON
(414) 536-2971
ka8421@att.com

WISDOT TRAFFIC LIGHTING
141 NW BARSTOW
P.O. BOX 798
WAUKESHA, WI 53187-0798

ATTN: ERIC PEREA
(414) 574-5422
eric.perea@dot.wi.gov

WISDOT SIGNALS
141 NW BARSTOW
P.O. BOX 798
WAUKESHA, WI 53187-0798

ATTN: JOHN HAUG
(262) 521-5356
john.haug@dot.state.wi.gov

WE ENERGIES - ELECTRIC/GAS

SEND ALL CORRESPONDENCE TO:
ATTN: LATROY BRUMFIELD
333 W EVERETT STREET - A299
MILWAUKEE, WI 53203
PHONE: (414) 221-5617
latroy.brumfield@we-energies.com

FIELD CONTACT - ELECTRIC
ATTN: CHRIS SCHULZ
500 S. 116TH STREET
MILWAUKEE, WI 53214
PHONE: (414) 944-5553
chris.schulz@we-energies.com

FIELD CONTACT - GAS
ATTN: PAUL OSMANSKI
500 S. 116TH STREET
MILWAUKEE, WI 53214
PHONE: (414) 944-5796
paul.osmanski@we-energies.com

HMA E-1 PAVEMENT/ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

TOTAL PAVEMENT DEPTH	LAYER DEPTH	GRADATION NOMINAL SIZE	ASPHALTIC MATERIAL
4-INCH	1 3/4-INCH UPPER LAYER 2 1/4-INCH LOWER LAYER	12.5 MM 19.0 MM	PG58-28 PG58-28
5 1/2-INCH	1 3/4-INCH UPPER LAYER 3 3/4-INCH LOWER LAYER	12.5 MM 19.0 MM	PG58-28 PG58-28
* 2 1/2-INCH	2 1/2-INCH SINGLE LAYER	12.5 MM	PG58-28
** 3-INCH	3-INCH SINGLE LAYER	12.5 MM	---

* AT RAILROAD CROSSING STH 167
** SHARED-USE PATH

SECTION 2 ORDER OF SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
PLAN DETAILS
EROSION CONTROL
AWSMS RETENTION POND
STORM SEWER
LANDSCAPING PLAN
SIGN REMOVAL
PERMANENT SIGNING
LIGHTING PLAN
PAVEMENT MARKINGS
TRAFFIC CONTROL
DETOUR PLAN
ALIGNMENT DIAGRAMS
CONTROL POINT LOCATION

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

** DENOTES UTILITY IS NOT MEMBER OF DIGGERS HOTLINE

RUNOFF COEFFICIENT TABLE

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

TOTAL PROJECT AREA = 39.50 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 32.04 ACRES

EROSION CONTROL GENERAL NOTES

SILT FENCE TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SILT FENCE SHALL BE IN PLACE PRIOR TO CONSTRUCTION.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE DRIVING LANES AND THE SHOULDERS, ARE TO BE SODDED OR FERTILIZED, SEEDED AND MULCHED.

IN AREAS WHERE IT IS TO BE SEEDED, SALVAGED TOPSOIL & MULCH SHALL BE PLACED ON THE SLOPES 5.0' BEYOND THE SLOPE INTERCEPT WITH THE ORIGINAL GROUND AS SHOWN ON THE CROSS SECTIONS AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE 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 FOURTEEN (14) CALENDAR DAYS, SEED THOSE ARES WITH SEED MIXTURE NO. 30.

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 SEED MIXTURE NO. 30.

EROSION CONTROL BMP'S ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.

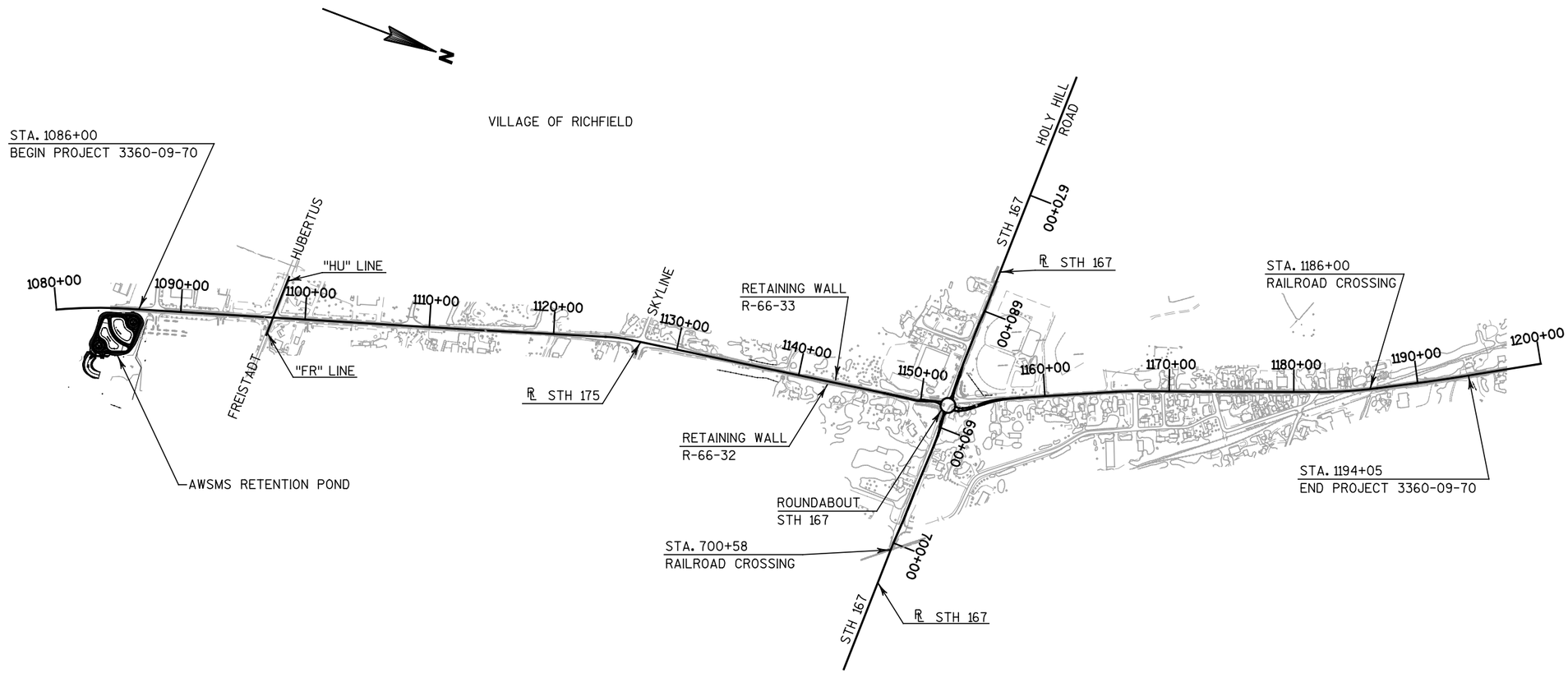
STANDARD ABBREVIATIONS

AADT	AVERAGE ANNUAL DAILY TRAFFIC	IN.	INCHES	R.R.	RAILROAD
A.E.C.P.S.	APRON ENDWALLS FOR CULVERT PIPE STEEL	K	SIGHT DISTANCE	REINF.	REINFORCED
AGG.	AGGREGATE	L	LENGTH OF CURVE	REQ'D.	REQUIRED
B.A.D.	BASE AGGREGATE DENSE	L.F.	LINEAR FEET	RT.	RIGHT
B.M.	BENCH MARK	L.H.F.	LEFT HAND FORWARD	R/W	RIGHT-OF-WAY
℄ OR CL	CENTERLINE	L.S.	LUMP SUM	RD.	ROAD
C.M.C.P.	CORRUGATED METAL CULVERT PIPE	LT.	LEFT	RDWY.	ROADWAY
C.P.C.S.	CULVERT PIPE CORRUGATED STEEL	MAX.	MAXIMUM	S.	SOUTH
CR.	CRUSHED	MIN.	MINIMUM	SE	SOUTHEAST
C.T.H.	COUNTY TRUNK HIGHWAY	N.	NORTH	SHRK.	SHRINKAGE
CWT.	HUNDREDWEIGHT	NOR.	NORMAL	S.R.	SIDE ROAD
C.Y.	CUBIC YARD	PAV'T.	PAVEMENT	STD.	STANDARD
D.H.	DOUBLE HEADED	P.C.	POINT OF CURVE	S.T.H.	STATE TRUNK HIGHWAY
D.H.V.	DESIGN HOURLY VOLUME	P.I.	POINT OF INTERSECTION	STA.	STATION
DIR.	DIRECTED	P.E.	PRIVATE ENTRANCE	S.Y.	SQUARE YARD
E.	EAST	P.K.	PARKER-KALON NAIL	T	TANGENT LENGTH OF CURVE
COR.	CORNER	℗ OR PL	PROPERTY LINE	T_L	TRANSIT LINE
EL. OR ELEV.	ELEVATION	P.P.	POWER POLE	V	DESIGN SPEED
F.E.	FIELD ENTRANCE	PROJ.	PROJECT	V.C.	VERTICAL CURVE
FT.	FOOT (FEET)	P.T.	POINT OF TANGENCY	VAR.	VARIABLE
GAL.	GALLON	PVMT.	PAVEMENT	W.	WEST
H.W.	HIGH WATER	R.	RADIUS		

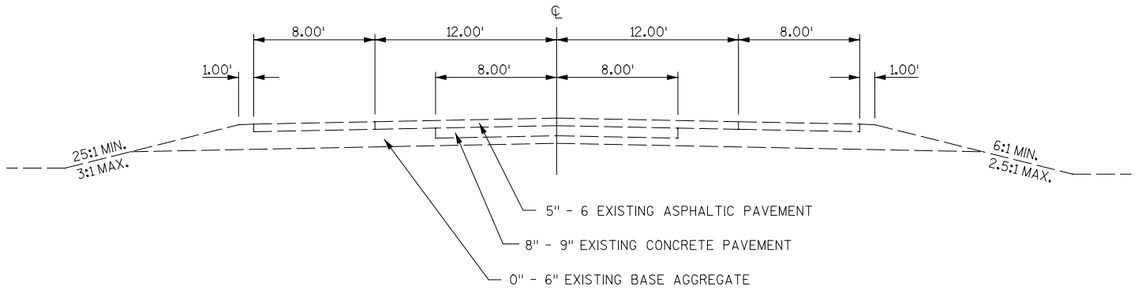
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	GENERAL NOTES	SHEET	E

FILE NAME: W:\x-Projects\RD\7140\project 1 dgn\020101_gn.dwg PLOT DATE: Dec 10, 2014 PLOT BY: luke0 PLOT SCALE: 1:8 ROTATION:

2

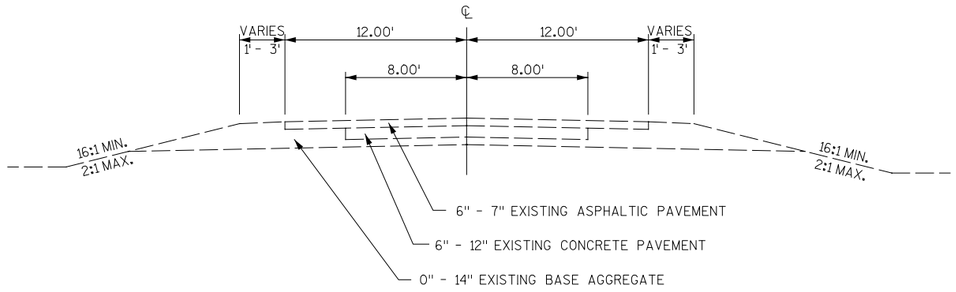


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PROJECT OVERVIEW	SHEET 3	E



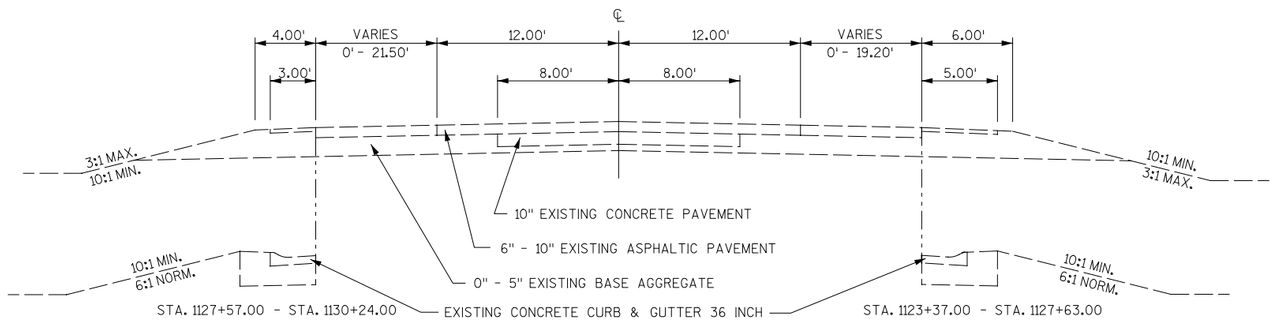
EXISTING TYPICAL SECTION - STH 175

STA. 1086+00.00 - STA. 1107+00.00



EXISTING TYPICAL SECTION - STH 175

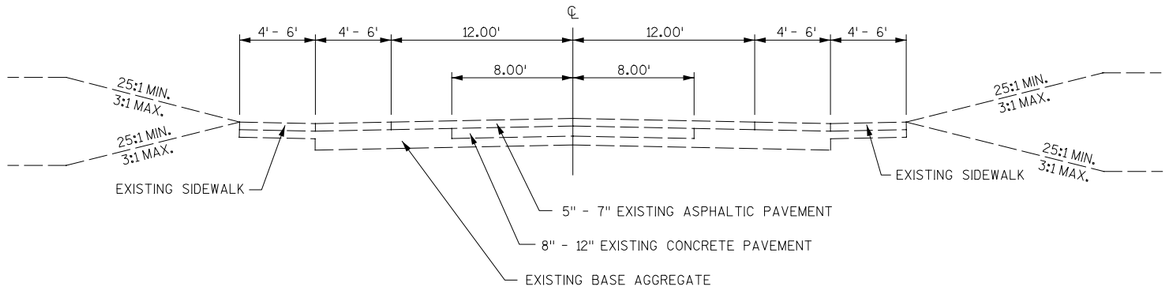
STA. 1107+00.00 - STA. 1121+00.00
STA. 1132+84.41 - STA. 1172+00.00
STA. 1187+00.00 - STA. 1194+05.00



EXISTING TYPICAL SECTION - STH 175

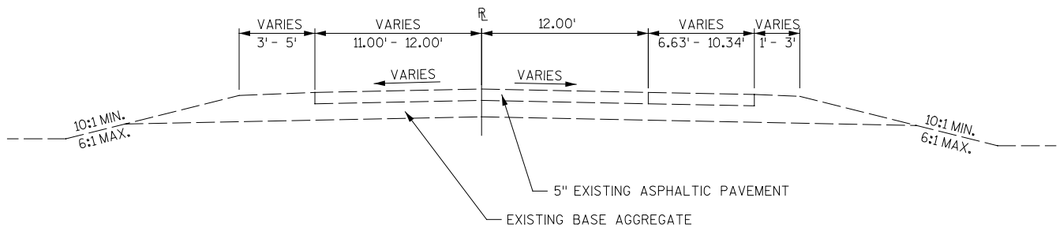
STA. 1121+00.00 - STA. 1132+84.41

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	EXISTING TYPICAL SECTIONS	SHEET 4	E



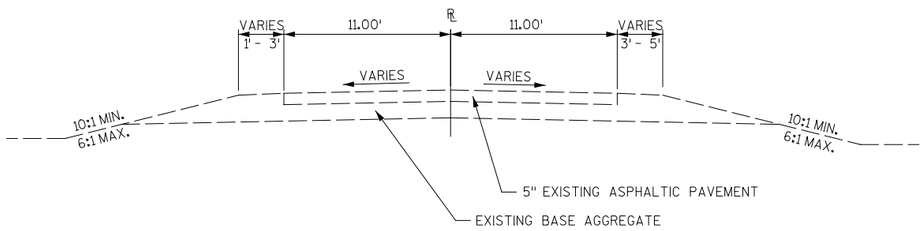
EXISTING TYPICAL SECTION - STH 175

STA. 1172+00 - STA. 1187+00.00



EXISTING TYPICAL SECTION - HUBERTUS

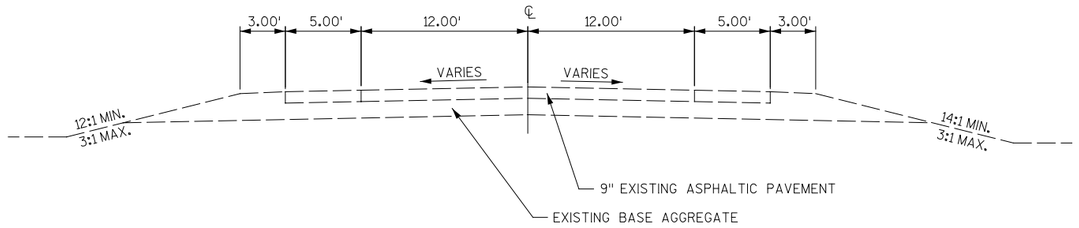
STA. 97+00.00"HU" - STA. 99+85.00"HU"



EXISTING TYPICAL SECTION - FREISTADT

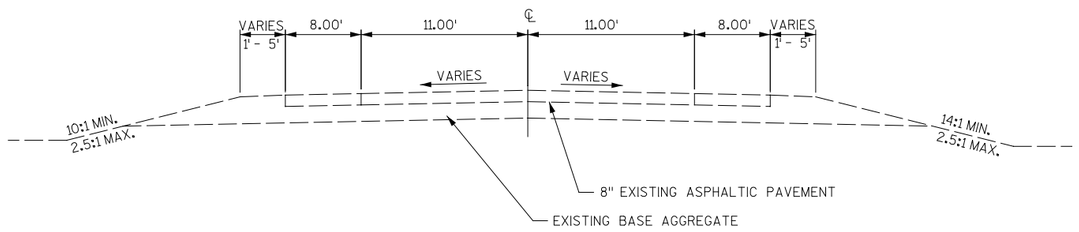
STA. 100+15.00"HU" - STA. 103+55.00"HU"

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	EXISTING TYPICAL SECTIONS	SHEET 5	E



EXISTING TYPICAL SECTION - STH 167

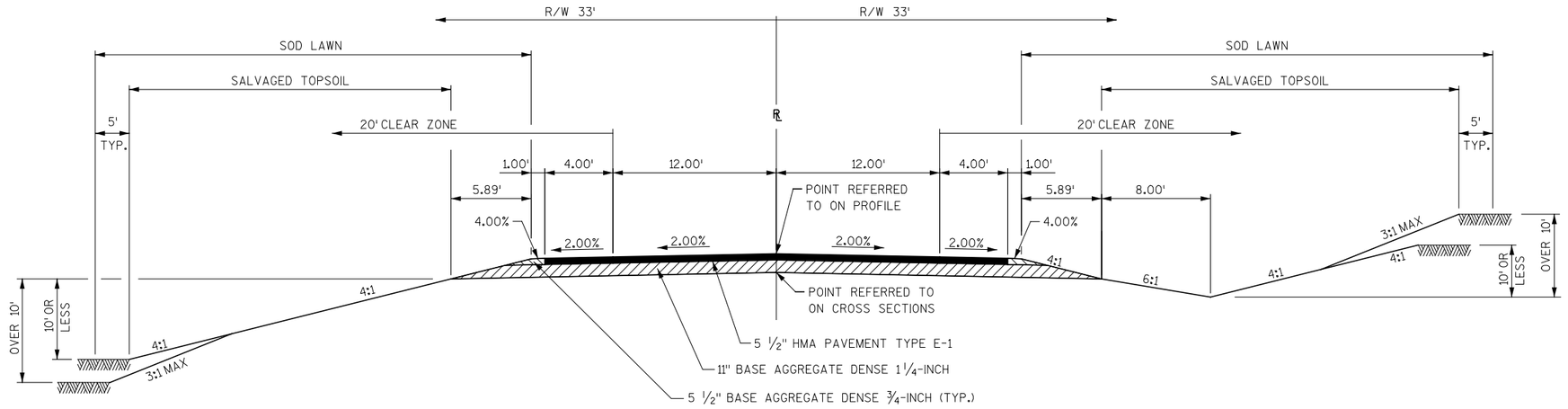
STA. 678+00.00 - STA. 687+83.00



EXISTING TYPICAL SECTION - STH 167

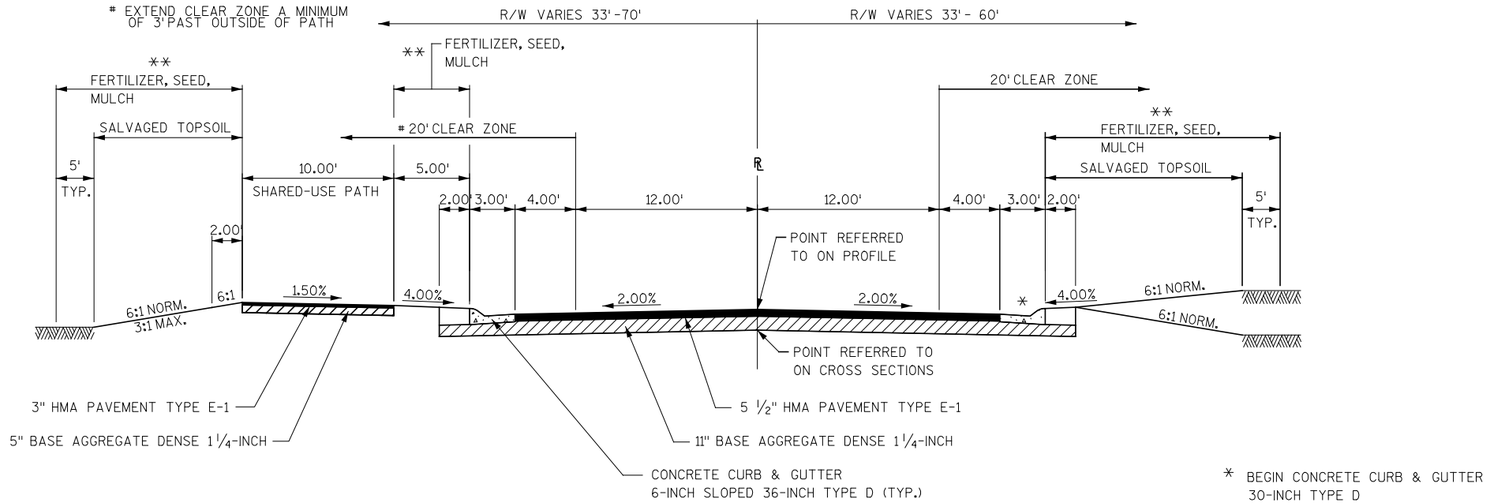
STA. 687+83.00 - STA. 700+19.64

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	EXISTING TYPICAL SECTIONS	SHEET 6	E



TYPICAL FINISHED SECTION - STH 175

STA. 1086+00.00 - STA. 1087+25.00



** SOD LAWN
STA. 1087+25.00 - STA. 1091+62.40
STA. 1103+25.17 - STA. 1104+81.40
STA. 1144+86.00 - STA. 1147+00.00

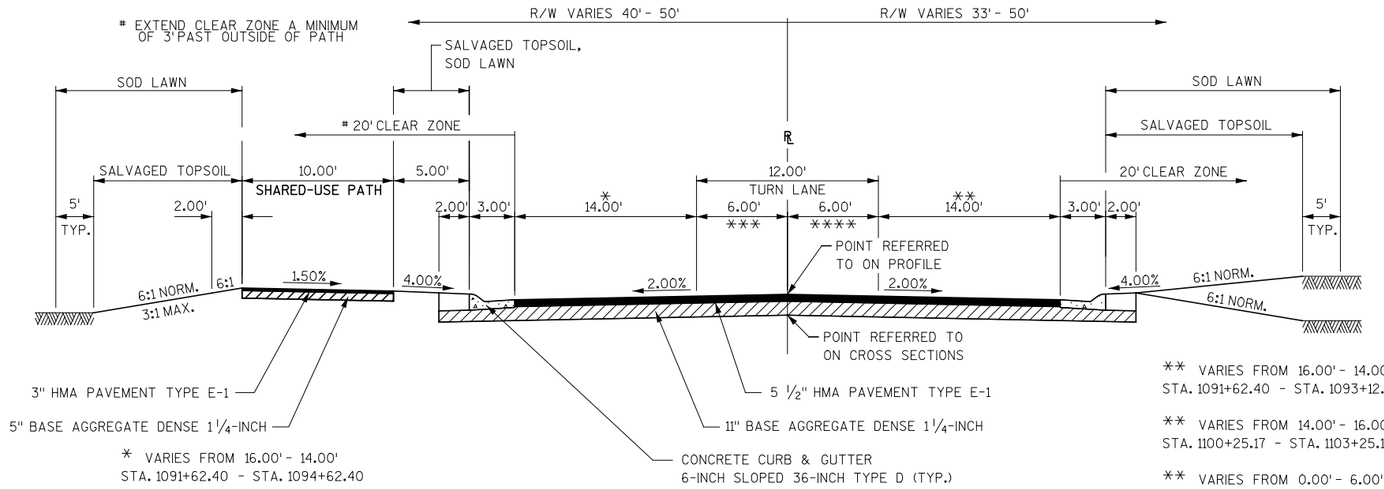
NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

* BEGIN CONCRETE CURB & GUTTER
30-INCH TYPE D
STA. 1146+80.00

TYPICAL FINISHED SECTION - STH 175

STA. 1087+25.00 - STA. 1091+62.40
STA. 1103+25.17 - STA. 1104+81.40
STA. 1112+75.00 - STA. 1121+00.00
STA. 1132+84.41 - STA. 1140+00.00
STA. 1144+86.00 - STA. 1147+00.00

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 7	E



* VARIES FROM 16.00' - 14.00'
STA. 1091+62.40 - STA. 1094+62.40

* VARIES FROM 14.00' - 16.00'
STA. 1101+75.17 - STA. 1103+25.17

*** VARIES FROM 0.00' - 6.00'
STA. 1091+62.40 - STA. 1094+62.40

*** VARIES FROM 6.00' - 0.00'
STA. 1101+75.17 - STA. 1103+25.17

TYPICAL FINISHED SECTION - STH 175 - LEFT TURN LANE

STA. 1091+62.40 - STA. 1103+25.17

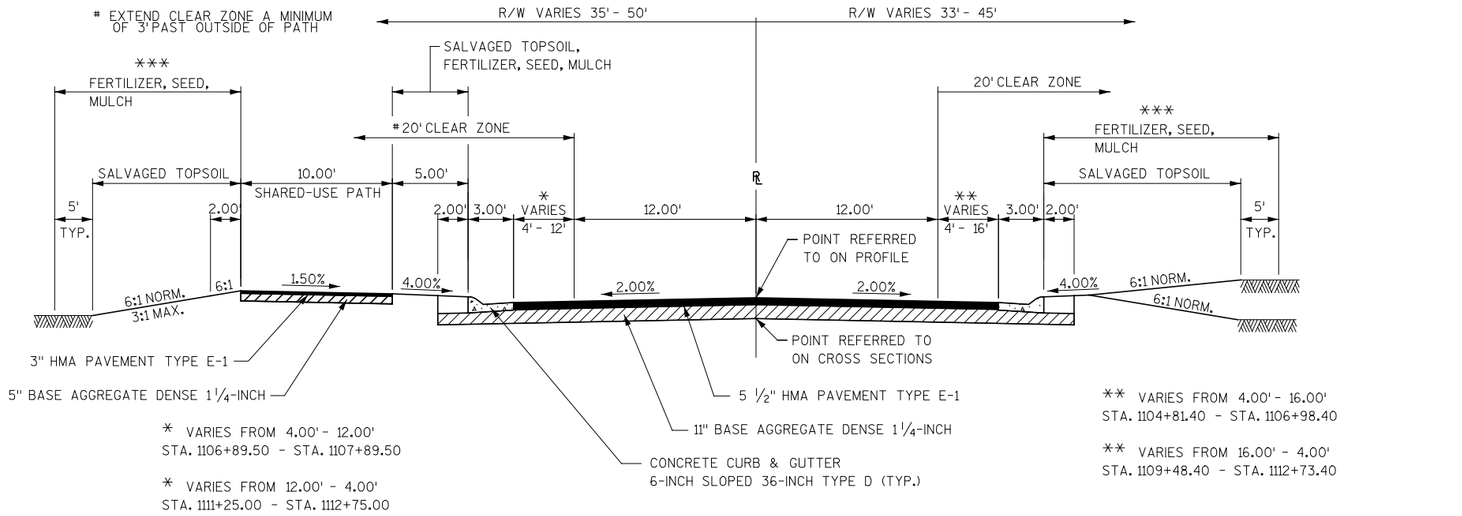
** VARIES FROM 16.00' - 14.00'
STA. 1091+62.40 - STA. 1093+12.40

** VARIES FROM 14.00' - 16.00'
STA. 1100+25.17 - STA. 1103+25.17

** VARIES FROM 0.00' - 6.00'
STA. 1091+62.40 - STA. 1093+12.40

** VARIES FROM 6.00' - 0.00'
STA. 1100+25.17 - STA. 1103+25.17

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB



* VARIES FROM 4.00' - 12.00'
STA. 1106+89.50 - STA. 1107+89.50

* VARIES FROM 12.00' - 4.00'
STA. 1111+25.00 - STA. 1112+75.00

** VARIES FROM 4.00' - 16.00'
STA. 1104+81.40 - STA. 1106+98.40

** VARIES FROM 16.00' - 4.00'
STA. 1109+48.40 - STA. 1112+73.40

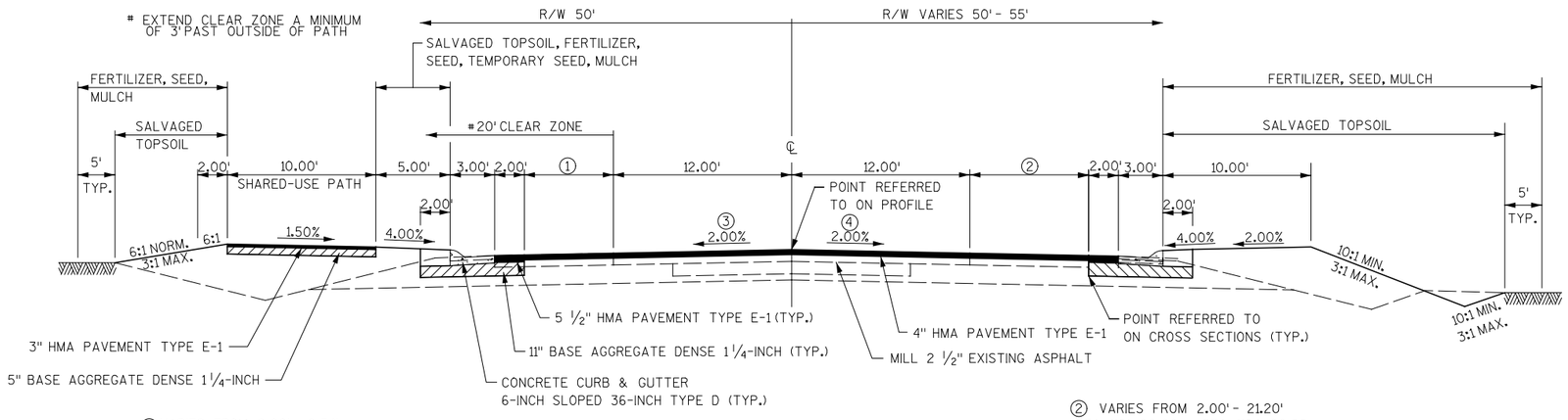
*** SOD LAWN
STA. 1104+81.40 - STA. 1108+00

TYPICAL FINISHED SECTION - STH 175 - TURN & BYPASS LANE

STA. 1104+81.40 - STA. 1112+75.00

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 8	E



① VARIES FROM 2.00' - 6.54'
STA. 1121+00.00 - STA. 1124+00.26

① VARIES FROM 11.13' - 2.00'
STA. 1130+32.31 - STA. 1132+84.41

② VARIES FROM 2.00' - 21.20'
STA. 1121+00.00 - STA. 1124+00.26

② VARIES 9.20' - 2.00'
STA. 1130+32.31 - STA. 1132+84.41

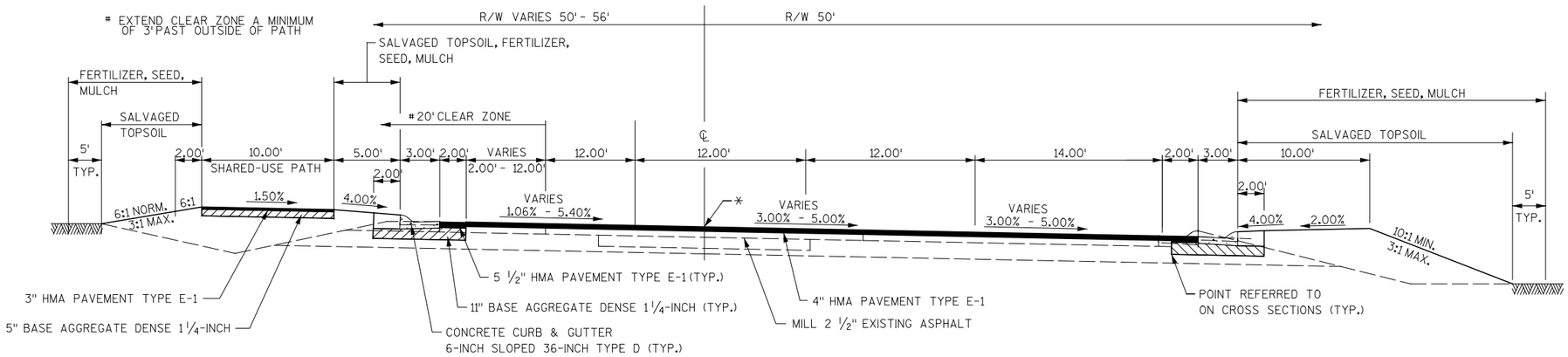
③ VARIES FROM 2.00% TO 1.06%
STA. 1121+00.00 - STA. 1123+37.80

④ VARIES FROM 2.00% TO 3.45%
STA. 1121+00.00 - STA. 1123+37.80

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 175

STA. 1121+00.00 - STA. 1124+00.26
STA. 1130+32.69 - STA. 1132+84.41



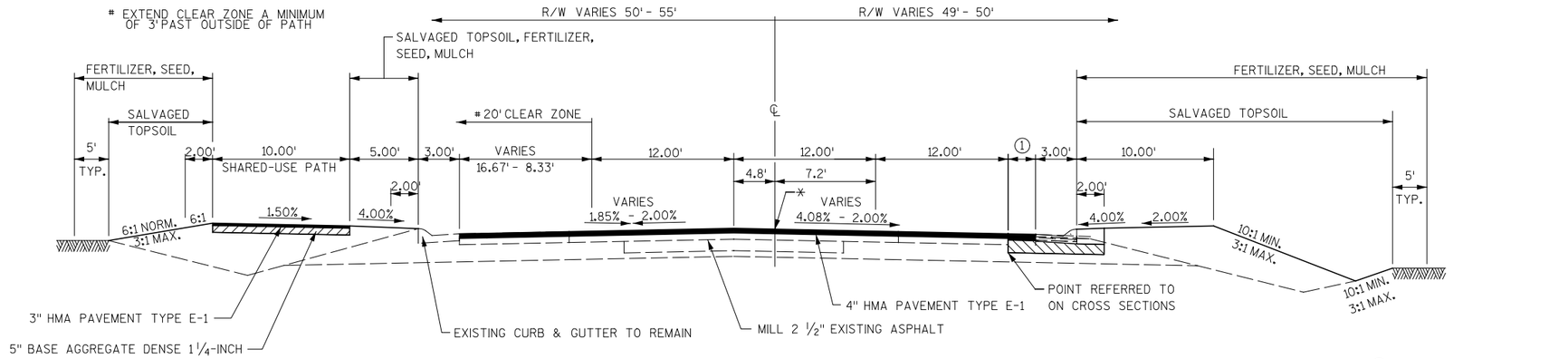
* POINT REFERRED TO ON PROFILE

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 175

STA. 1124+00.26 - STA. 1127+57.55

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 9	E



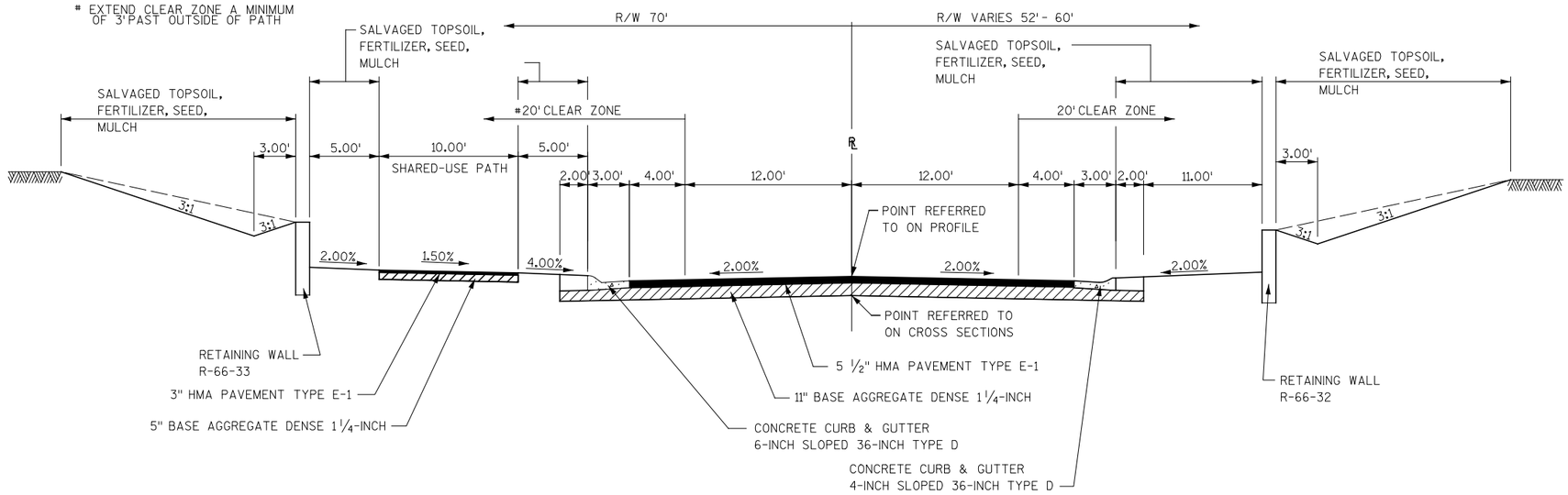
* POINT REFERRED TO ON PROFILE

① VARIES FROM 12.40' - 4.00'

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 175

STA. 1127+57.55 - STA. 1130+32.33

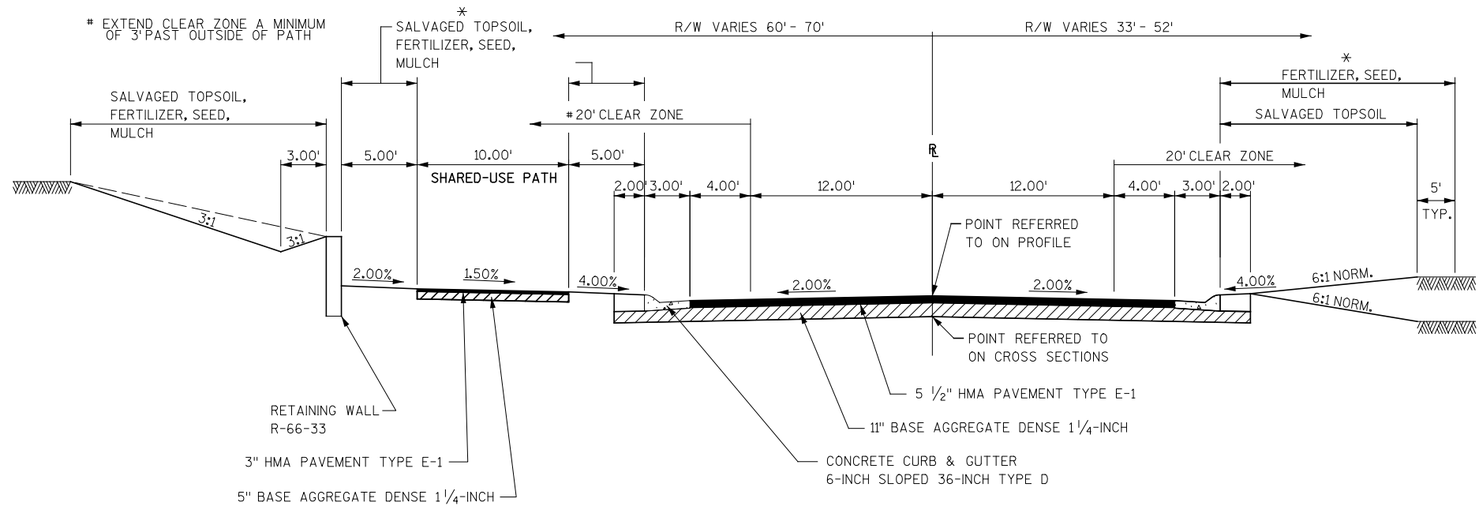


NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 175 - RETAINING WALL

STA. 1140+00.00 - STA. 1143+50.00

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 10	E

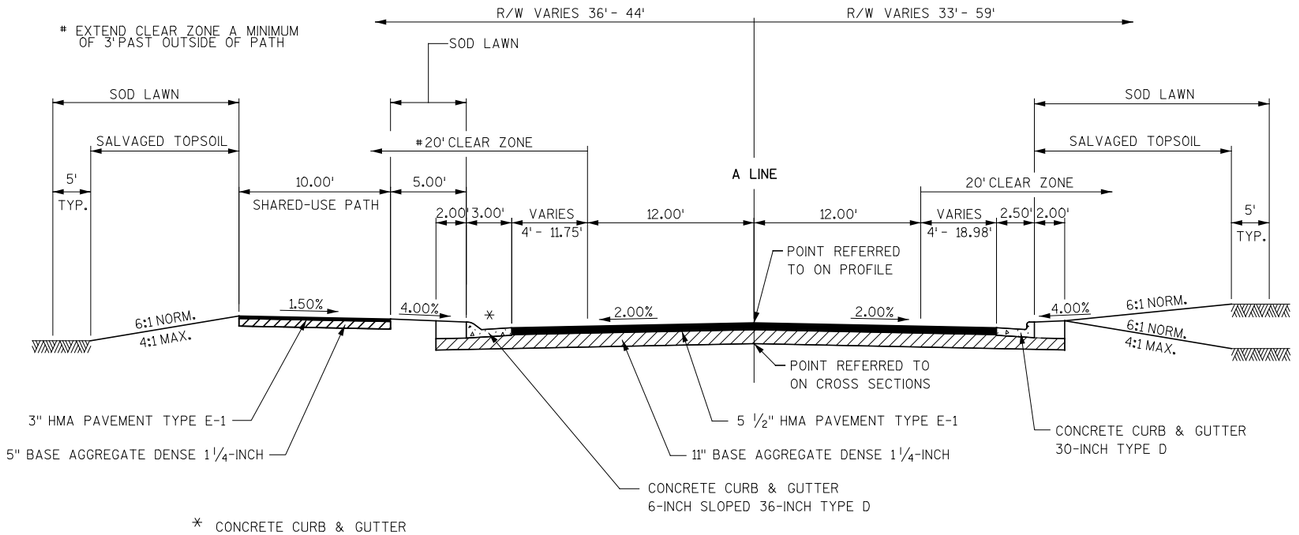


* SOD LAWN
STA. 1144+50 - STA. 1144+86

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 175 - RETAINING WALL, LT

STA. 1143+50.00 - STA. 1144+86.00



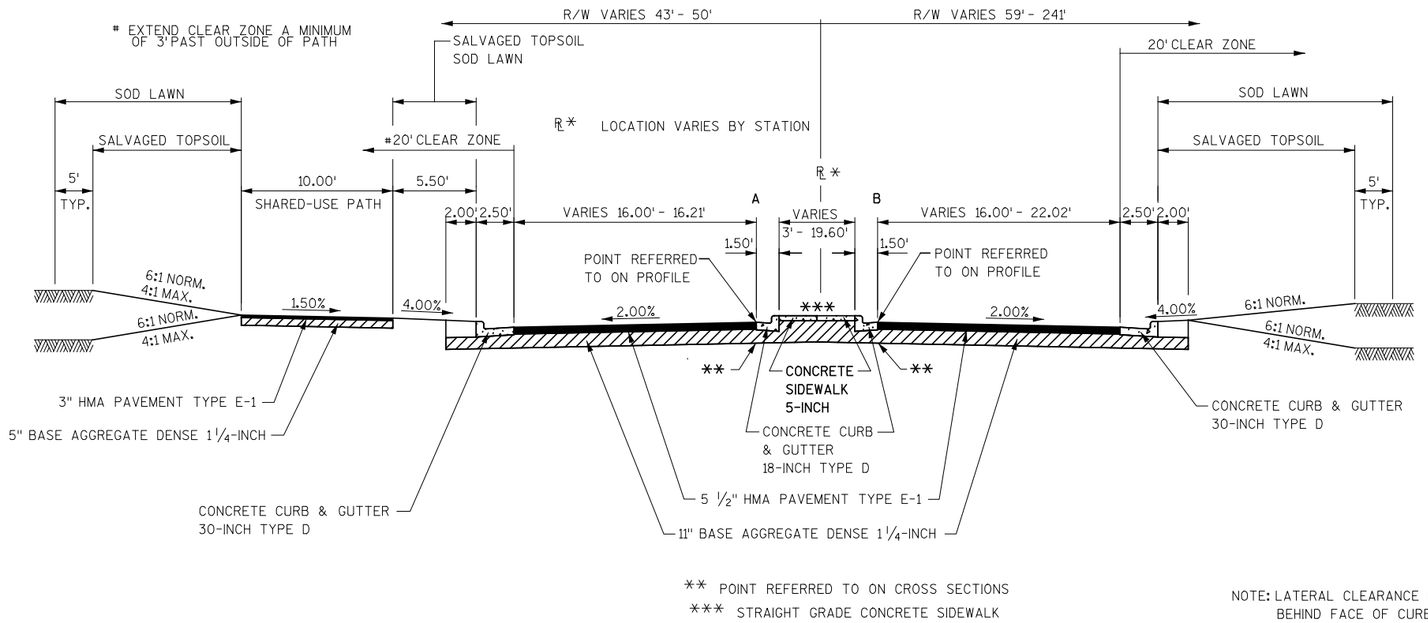
* CONCRETE CURB & GUTTER
30-INCH TYPE D FROM
STA. 1149+30.65 - STA. 1149+90.41

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 175 - A LINE

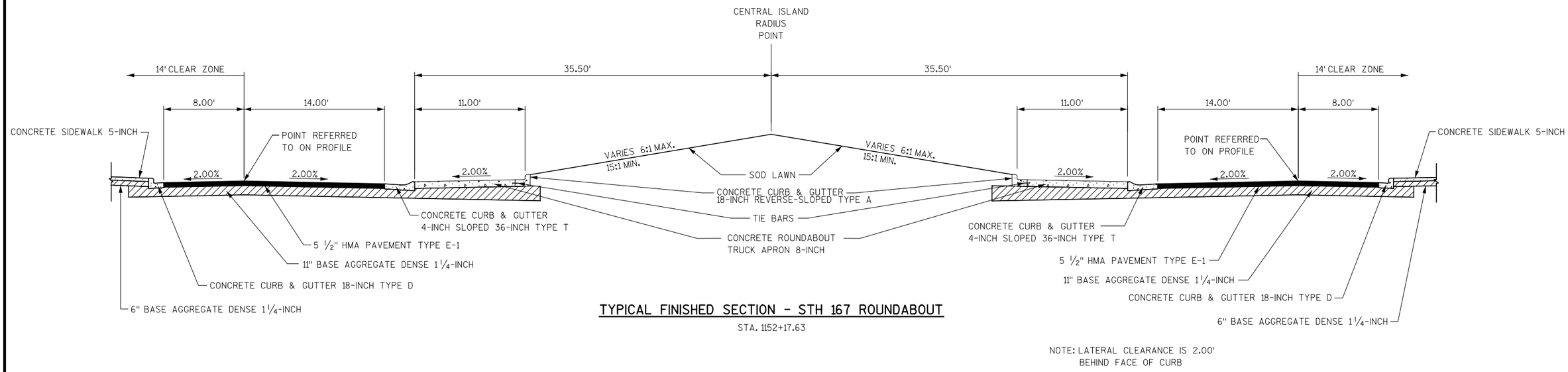
STA. 1147+00.00"A" - STA. 1149+90.41"A"

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 11	E



TYPICAL FINISHED SECTION - STH 175 - A LINE SPLITTER ISLAND

STA. 1149+90.41"A" - STA. 1151+67.93"A"

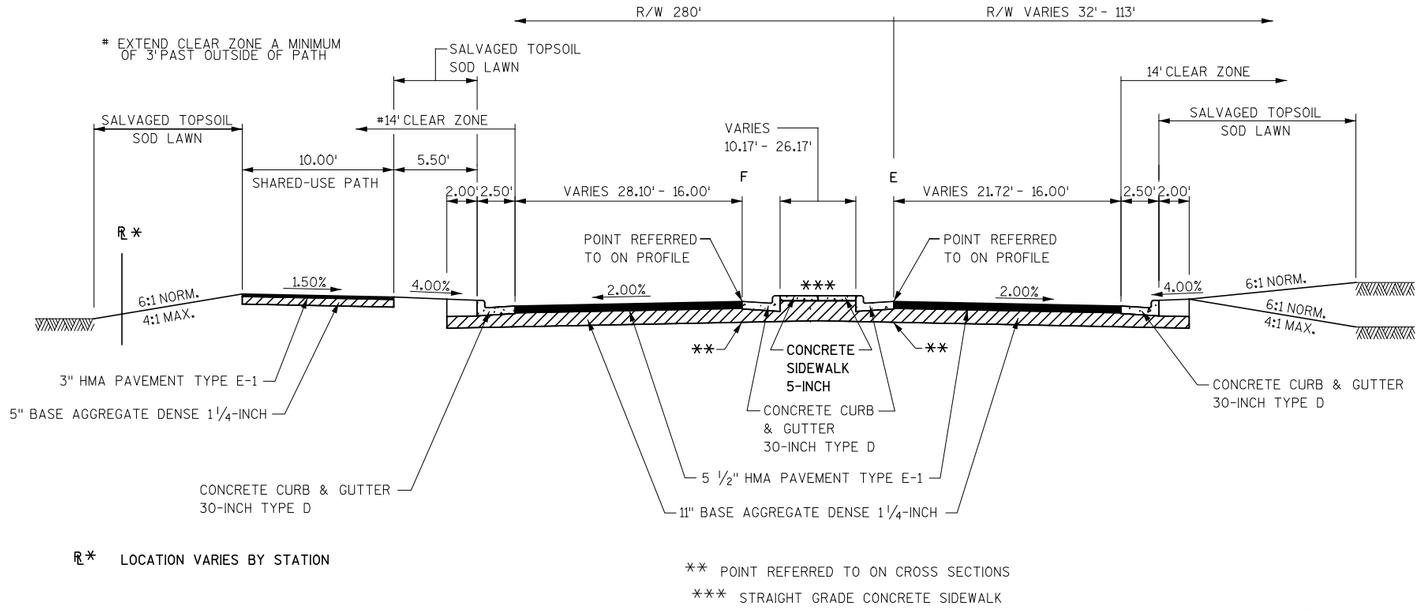


TYPICAL FINISHED SECTION - STH 167 ROUNDABOUT

STA. 1152+17.63

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 12	E



℄ * LOCATION VARIES BY STATION

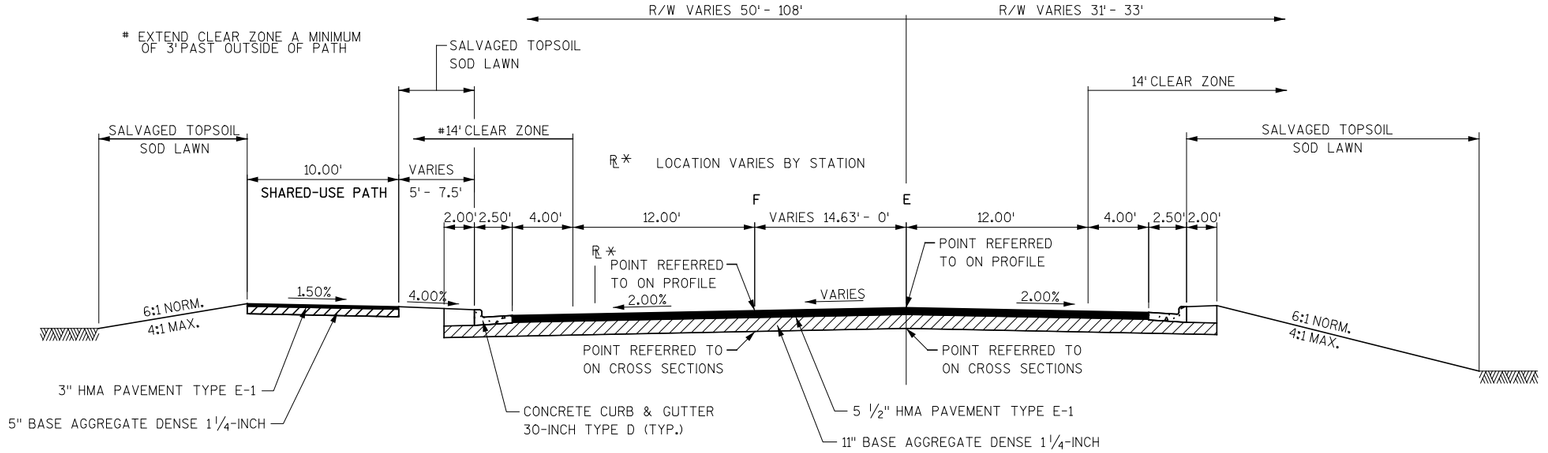
** POINT REFERRED TO ON CROSS SECTIONS

*** STRAIGHT GRADE CONCRETE SIDEWALK

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 175 - E LINE SPLITTER ISLAND

STA. 1152+51.18"E" - STA. 1153+92.43"E"



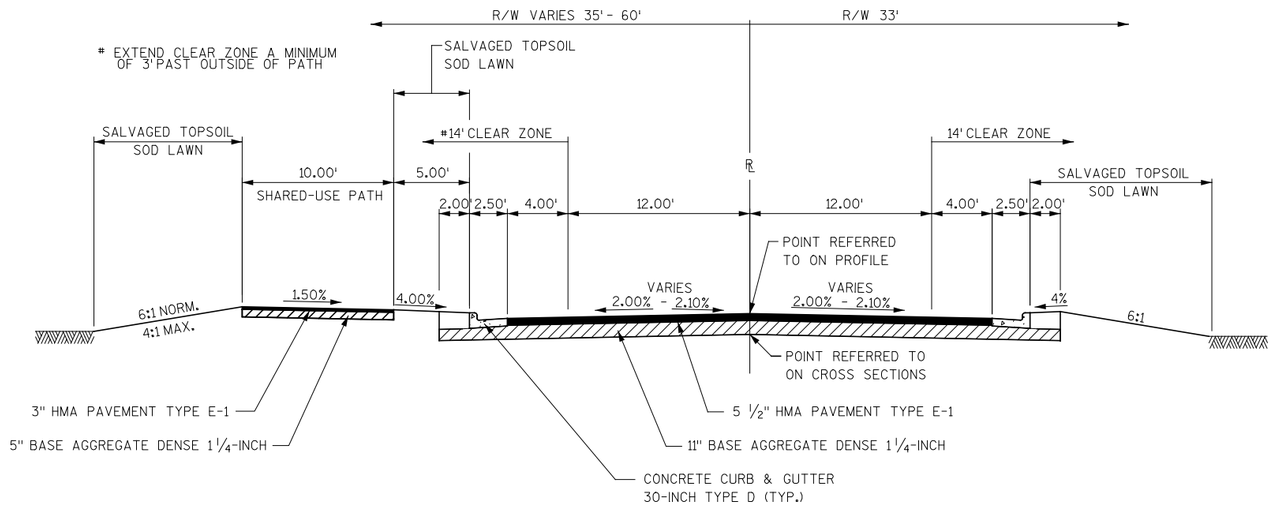
℄ * LOCATION VARIES BY STATION

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 175 - E LINE

STA. 1153+92.43"E" - STA. 1157+68.78"E"

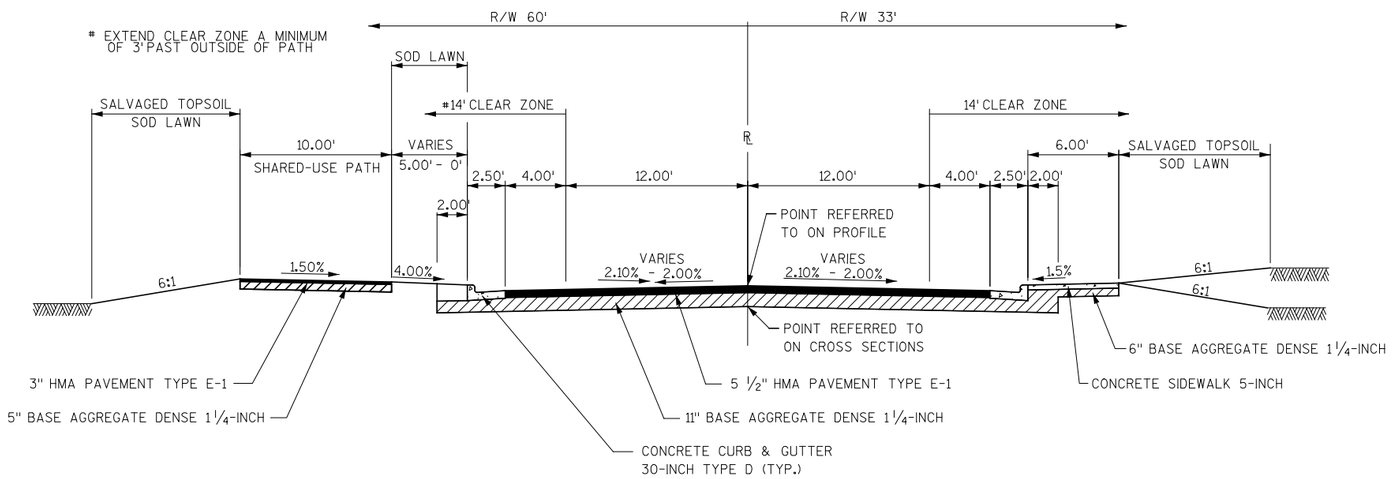
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 13	E



NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 175

STA. 1157+68.78 - STA. 1166+50.00

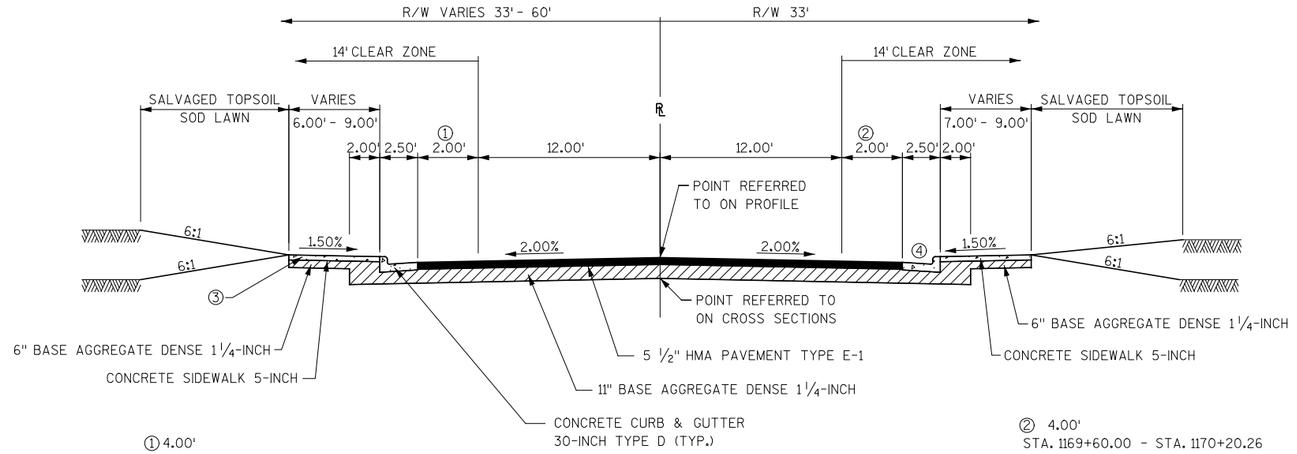


NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 175

STA. 1166+50.00 - STA. 1169+60.00

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 14	E



① 4.00'
STA. 1169+60.00 - STA. 1170+20.26
STA. 1180+90.00 - STA. 1186+32.71

② 4.00'
STA. 1169+60.00 - STA. 1170+20.26
STA. 1182+43.44 - STA. 1186+32.71

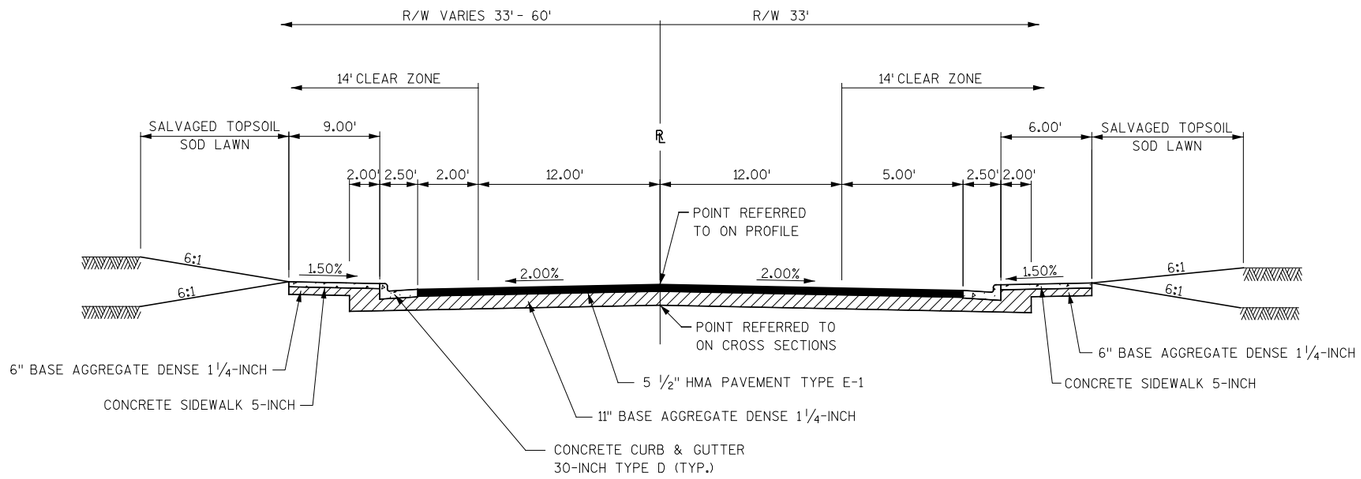
③ STA. 1179+96.41 - STA. 1186+32.71
SIDEWALK ENDS AT STA. 1182+59

④ STA. 1179+96.41 - STA. 1186+32.71
CURB & GUTTER ENDS 1184+53.00

TYPICAL FINISHED SECTION - STH 175

STA. 1169+60.00 - STA. 1171+83.67
STA. 1173+13.38 - STA. 1174+12.37
STA. 1175+80.61 - STA. 1176+42.28
STA. 1177+22.52 - STA. 1178+02.49
STA. 1179+96.41 - STA. 1186+32.71

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

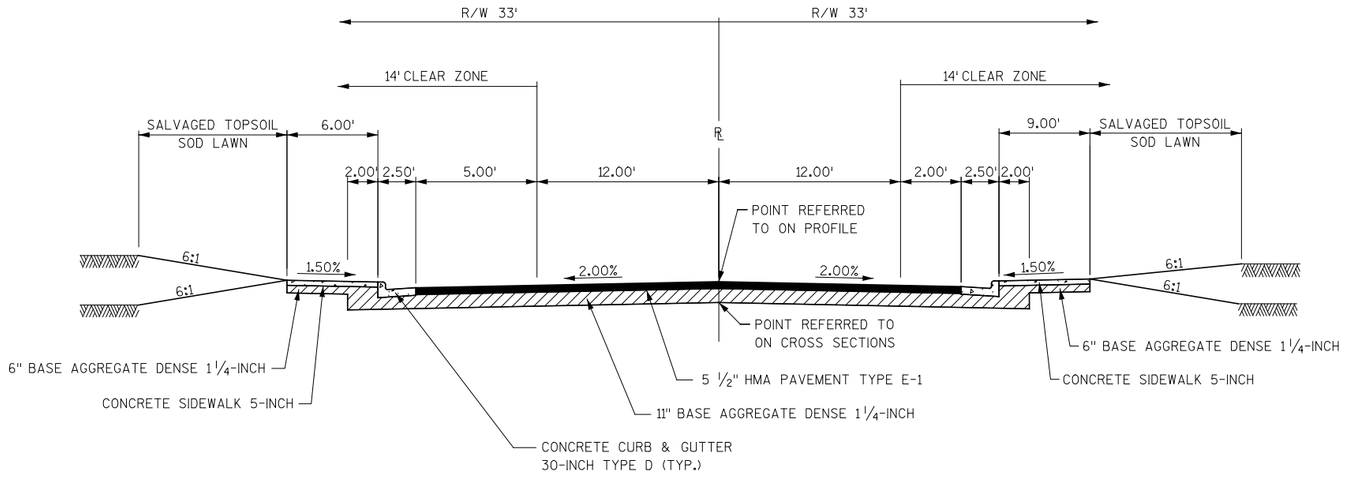


NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 175 - PARKING, RT

STA. 1171+83.67 - STA. 1173+13.38
STA. 1174+12.37 - STA. 1174+23.81
STA. 1176+42.28 - STA. 1177+22.52
STA. 1178+02.49 - STA. 1178+73.57

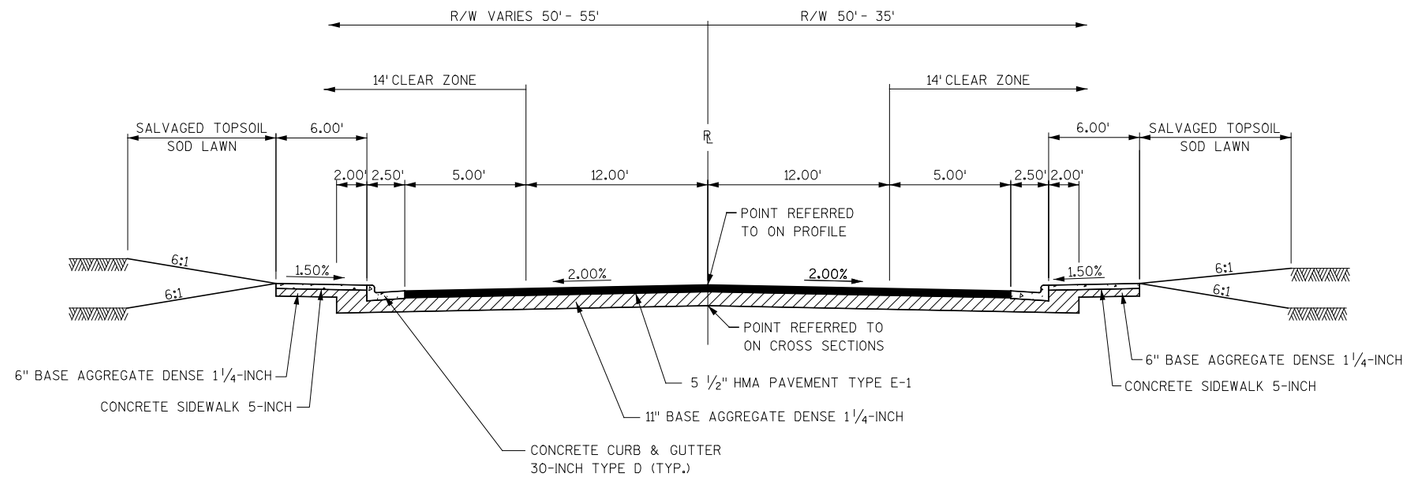
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 15	E



NOTE: LATERAL CLEARANCE IS 2.00'
BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 175 - PARKING, LT

STA. 1174+87.37 - STA. 1175+80.61
STA. 1178+91.18 - STA. 1179+96.41

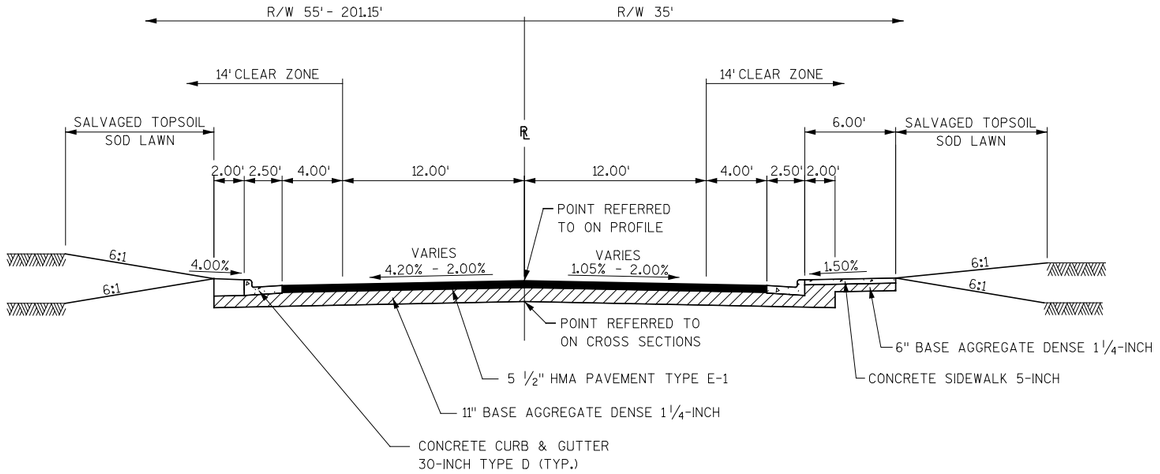


NOTE: LATERAL CLEARANCE IS 2.00'
BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 175 - PARKING, LT & RT

STA. 1174+23.81 - STA. 1174+87.37
STA. 1178+73.57 - STA. 1178+91.18

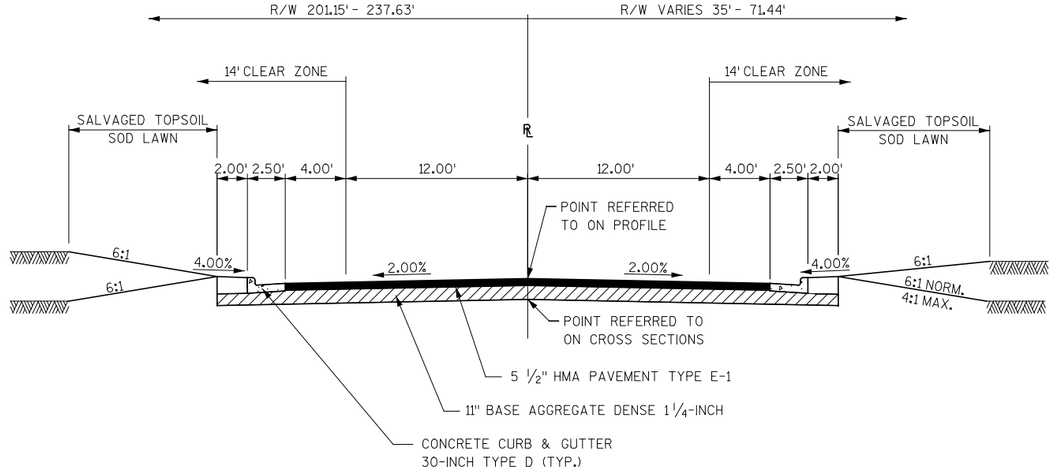
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 16	E



NOTE: LATERAL CLEARANCE IS 2.00'
BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 175

STA. 1186+32.71 - STA. 1188+14.66

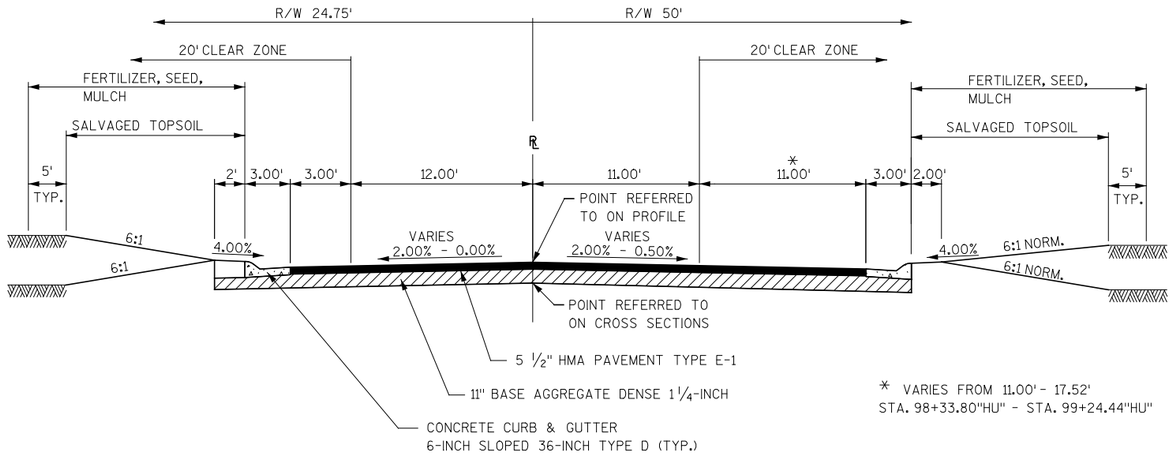


NOTE: LATERAL CLEARANCE IS 2.00'
BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 175

STA. 1188+14.66 - STA. 1194+05.00

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 17	E

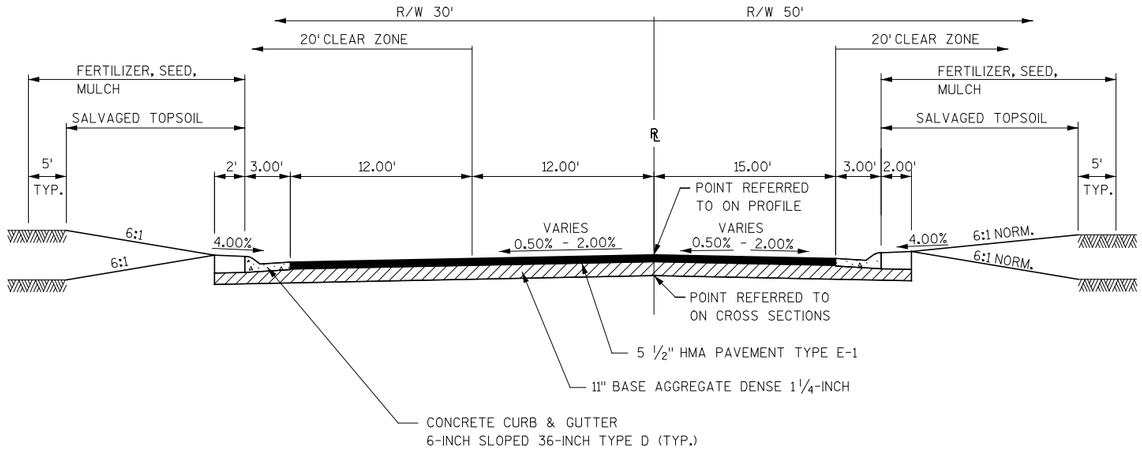


* VARIES FROM 11.00' - 17.52'
STA. 98+33.80"HU" - STA. 99+24.44"HU"

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - HUBERTUS

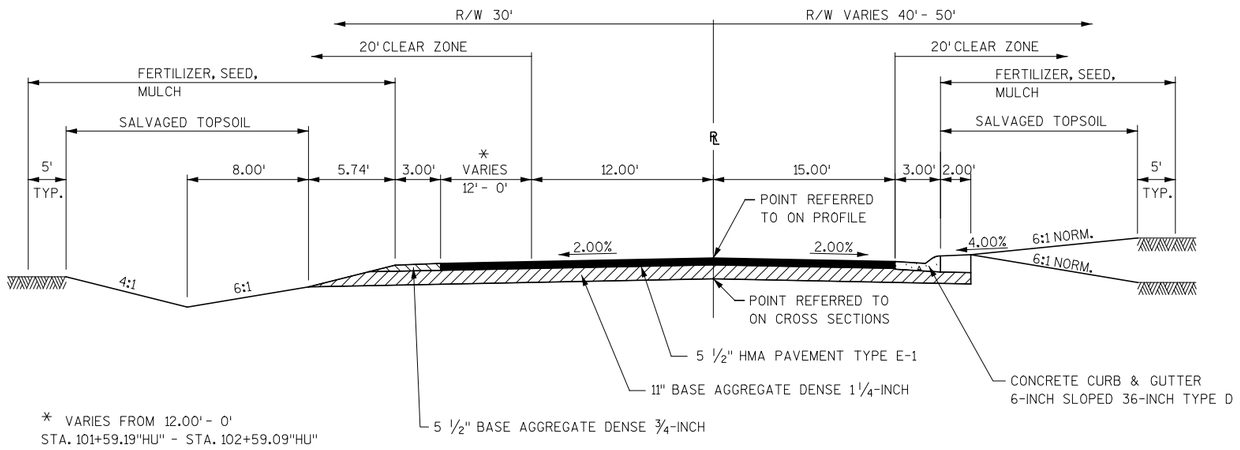
STA. 97+00.00"HU" - STA. 99+81.00"HU"



NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - FREISTADT

STA. 100+19.00"HU" - STA. 101+59.19"HU"

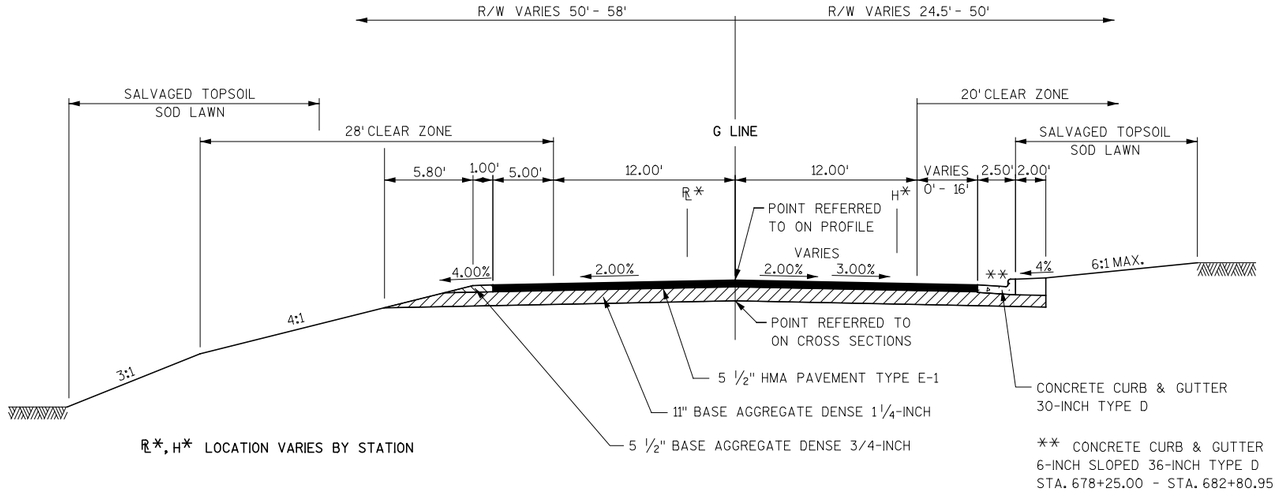


* VARIES FROM 12.00' - 0'
STA. 101+59.19"HU" - STA. 102+59.09"HU"

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - FREISTADT

STA. 101+59.19"HU" - STA. 103+55.00"HU"



℄*, H* LOCATION VARIES BY STATION

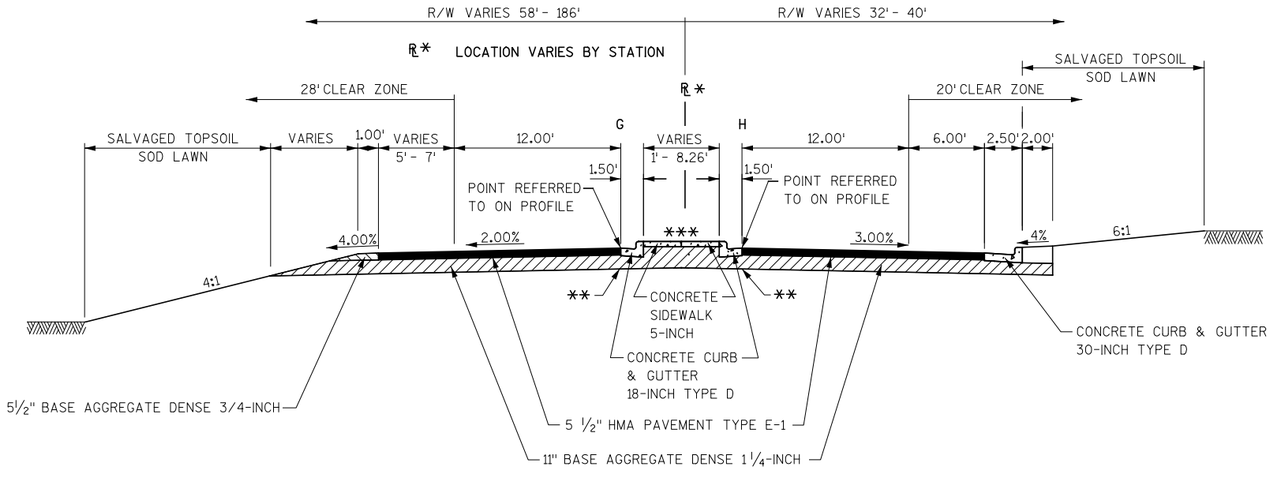
** CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
STA. 678+25.00 - STA. 682+80.95

TYPICAL FINISHED SECTION - STH 167 - G LINE

STA. 678+00.00"G" - STA. 685+03.54"G"

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 19	E

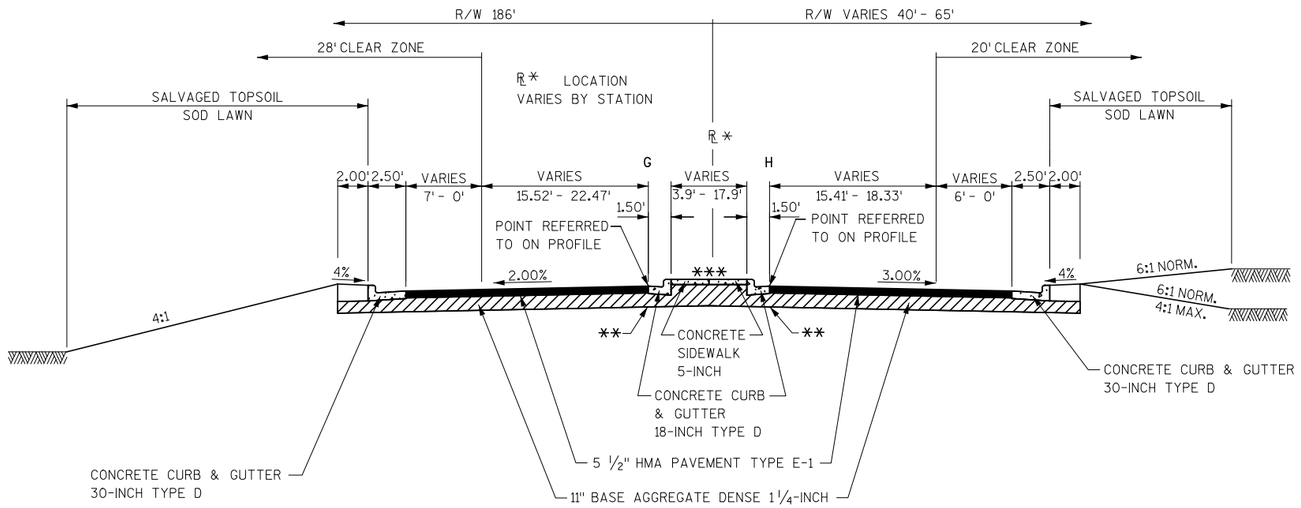


** POINT REFERRED TO ON CROSS SECTIONS
*** STRAIGHT GRADE CONCRETE SIDEWALK

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 167 - G LINE SPLITTER ISLAND

STA. 685+03.54"G" - STA. 686+11.41"G"



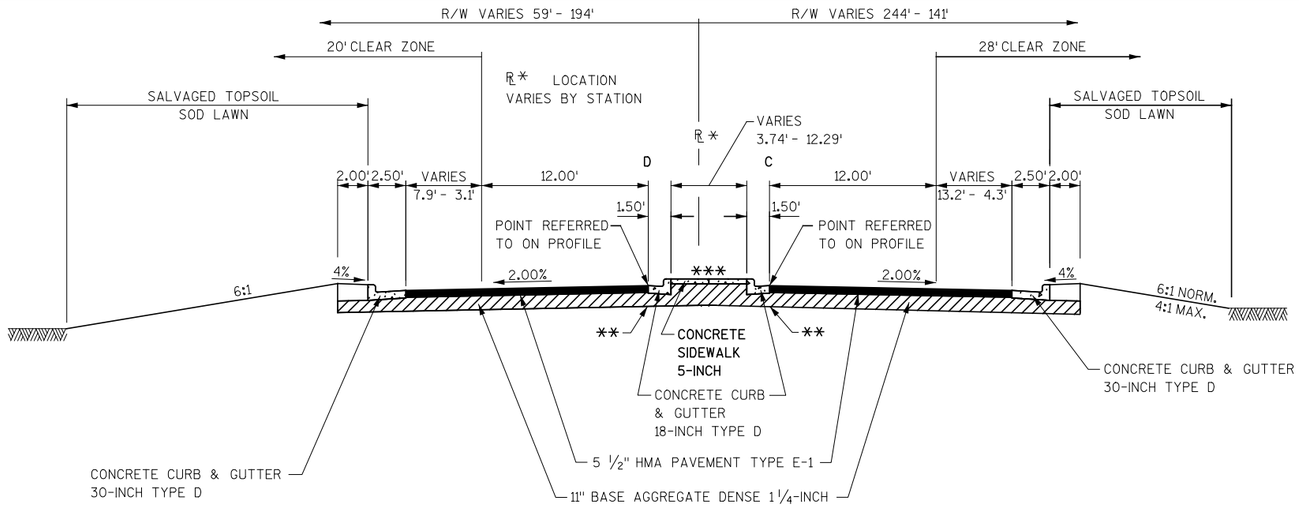
** POINT REFERRED TO ON CROSS SECTIONS
*** STRAIGHT GRADE CONCRETE SIDEWALK

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 167 - G LINE SPLITTER ISLAND

STA. 686+11.41"G" - STA. 687+56.53"G"

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 20	E

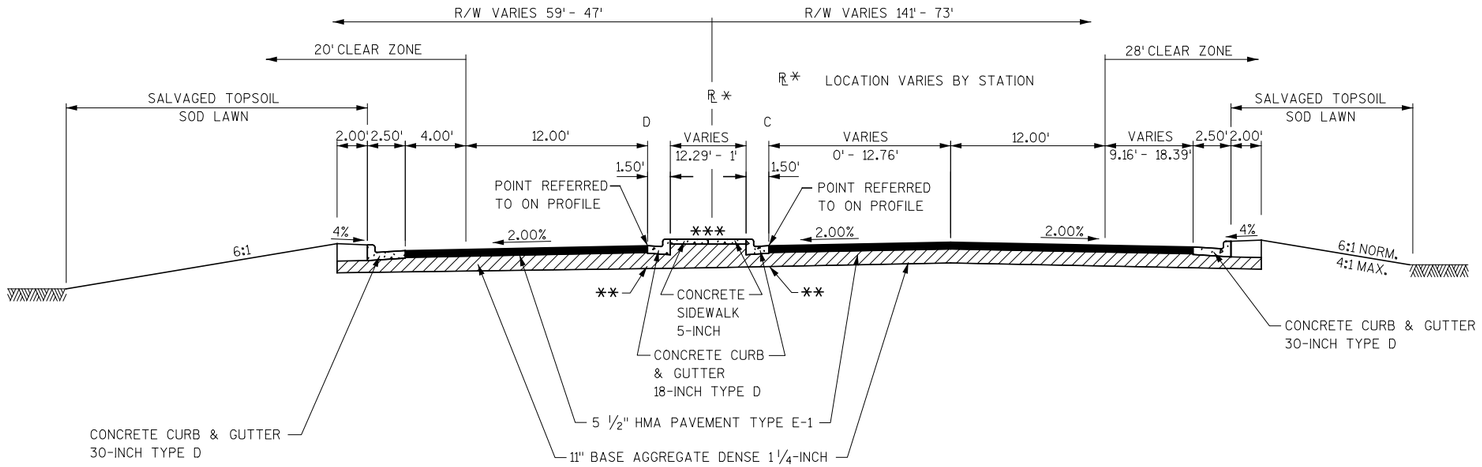


** POINT REFERRED TO ON CROSS SECTIONS
*** STRAIGHT GRADE CONCRETE SIDEWALK

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 167 - C LINE SPLITTER ISLAND

STA. 688+69.45"C" - STA. 689+82.79"C"



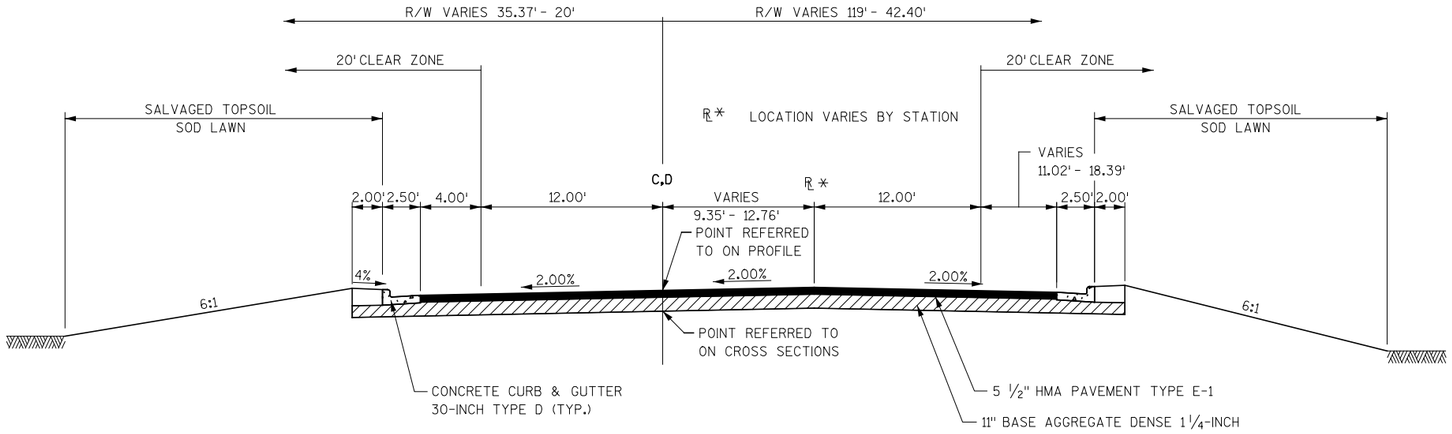
** POINT REFERRED TO ON CROSS SECTIONS
*** STRAIGHT GRADE CONCRETE SIDEWALK

NOTE: LATERAL CLEARANCE IS 2.00' BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 167 - C LINE SPLITTER ISLAND

STA. 689+82.79"C" - STA. 690+18.46"C"

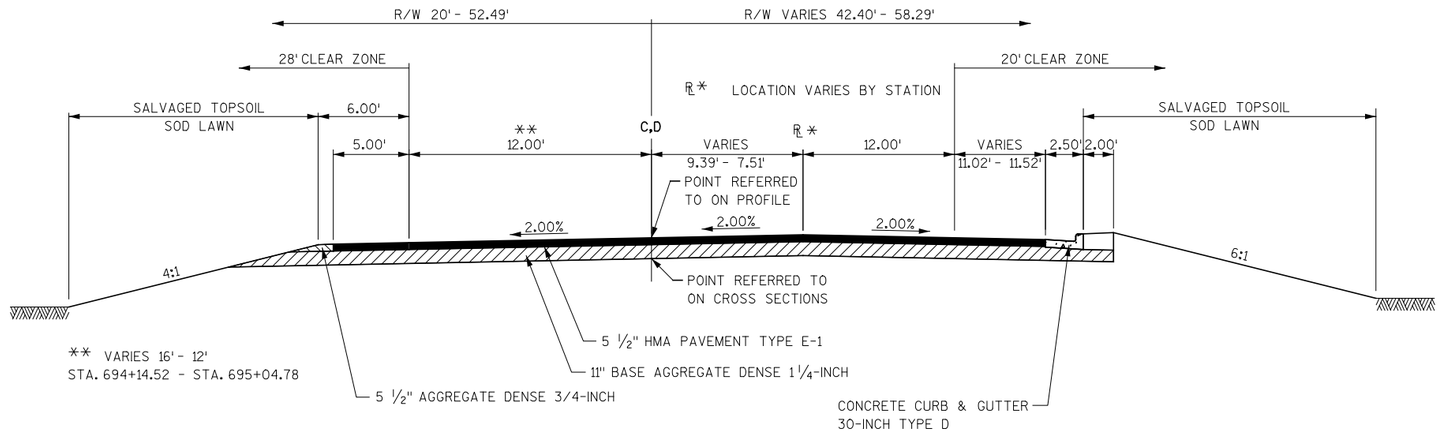
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 21	E



NOTE: LATERAL CLEARANCE IS 2.00'
BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 167 - C LINE

STA. 690+18.46"C" - STA. 694+14.52"C"



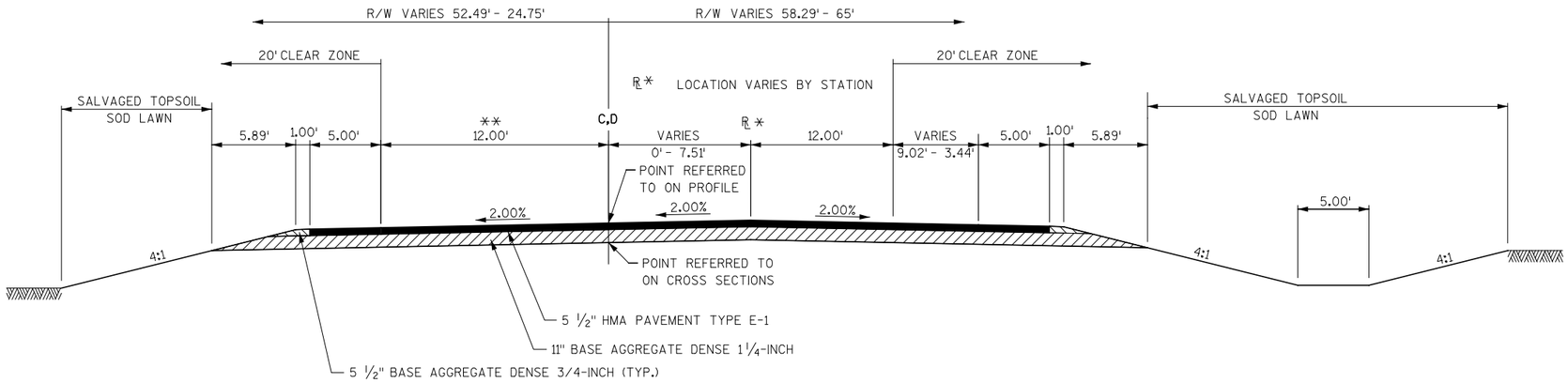
NOTE: LATERAL CLEARANCE IS 2.00'
BEHIND FACE OF CURB

TYPICAL FINISHED SECTION - STH 167 - C LINE

STA. 694+14.52"C" - STA. 696+00.00"C"

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET 22	E

2

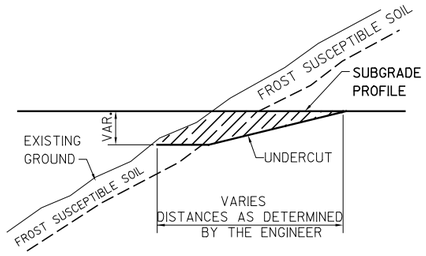


TYPICAL FINISHED SECTION - STH 167 - C LINE

STA. 696+00.00"C" - STA. 700+19.60"C"

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TYPICAL SECTIONS	SHEET	E

FILE NAME : W:\x-Projects\RD\7140\project 1 dgn\020320_ts.dgn PLOT DATE : 7/31/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 100.0000 sf / in.
WISDOT/CADDS SHEET 42



NOTE:

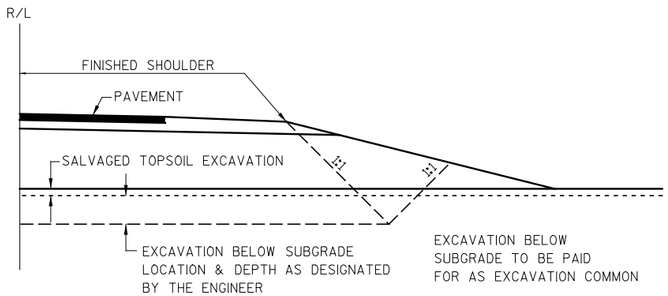
EXACT LOCATIONS AND EXTENT OF UNDERCUT SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL ACCEPTABLE TO THE ENGINEER.

THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED.

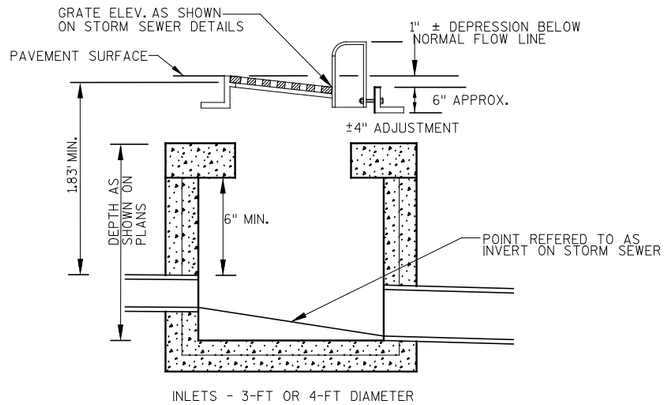
FOR LATERAL LIMITS, SEE "DETAIL FOR EXCAVATION BELOW SUBGRADE."

DETAIL FOR EXCAVATION BELOW SUBGRADE AT CUTS

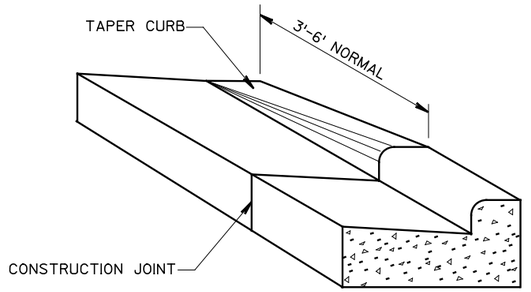


EXCAVATION BELOW SUBGRADE TO BE PAID FOR AS EXCAVATION COMMON

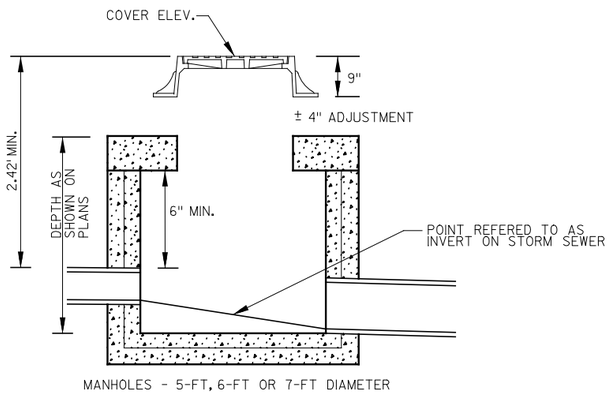
DETAIL FOR EXCAVATION BELOW SUBGRADE



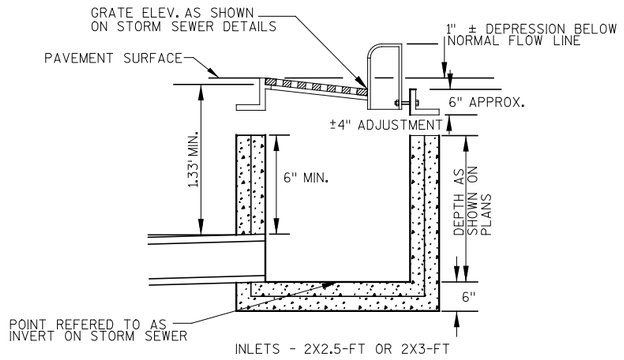
DETAIL FOR COMPUTING ROUND INLET ELEVATIONS



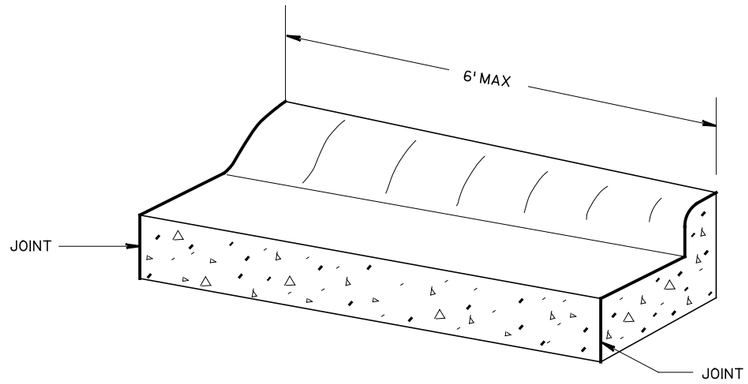
DETAIL OF CURB & GUTTER TERMINI



DETAIL FOR COMPUTING MANHOLE ELEVATIONS



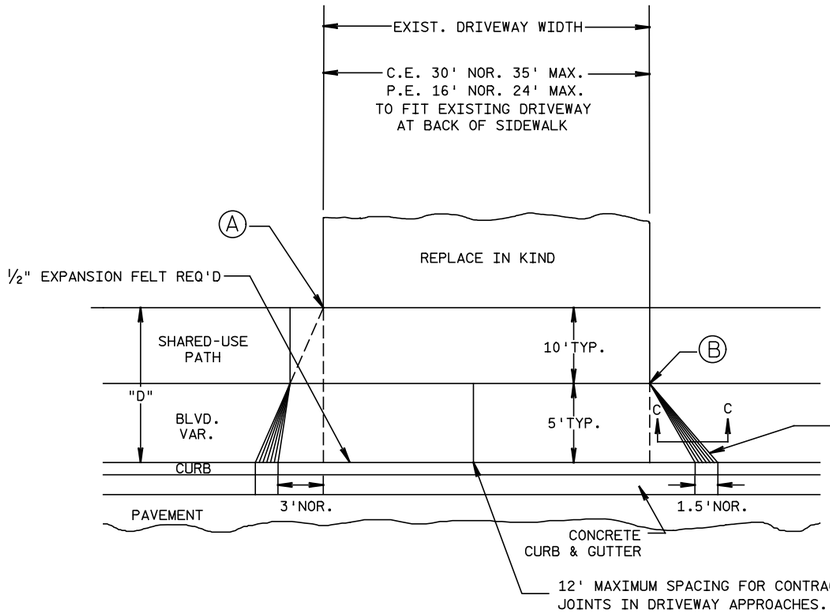
DETAIL FOR COMPUTING RECTANGULAR INLET ELEVATIONS



TRANSITION DETAIL

36" TYPE "D" CURB & GUTTER TO 30" TYPE "D" CURB & GUTTER
(NOTE: PAID FOR AS 36" TYPE "D" CURB & GUTTER)

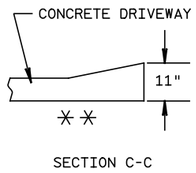
DRIVEWAY ENTRANCE DETAIL WITH SHARED-USE PATH, CURB & GUTTER

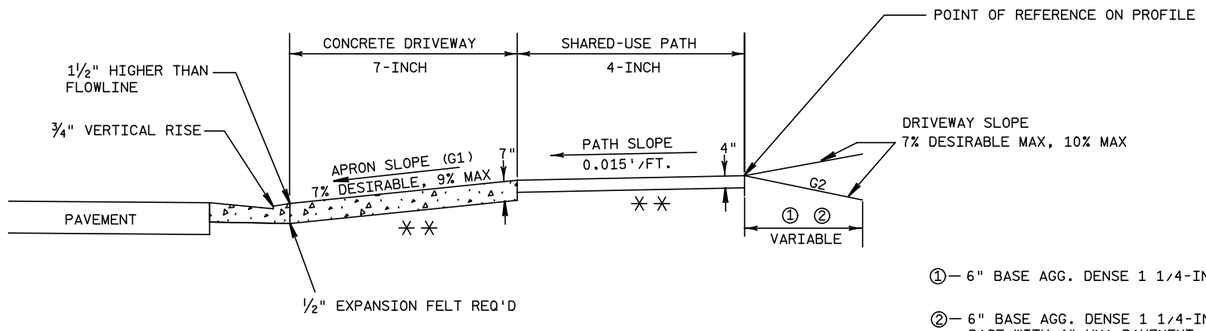


PLAN VIEW

Ⓐ WHEN "D" IS 13' OR LESS, ALIGN TAPER WITH BACK OF PATH

Ⓑ WHEN "D" IS GREATER THAN 13', ALIGN TAPER WITH FRONT OF PATH





TYPICAL DRIVEWAY SECTION

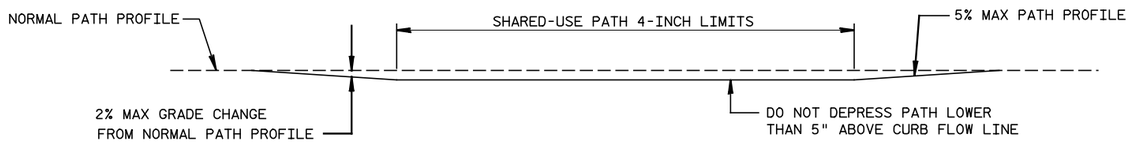
① — 6" BASE AGG. DENSE 1 1/4-INCH

② — 6" BASE AGG. DENSE 1 1/4-INCH BASE WITH 4" HMA PAVEMENT, TYPE E-1

✳✳ = 6" BASE AGG. DENSE 1 1/4-INCH REQ'D UNDER CONCRETE DRWY

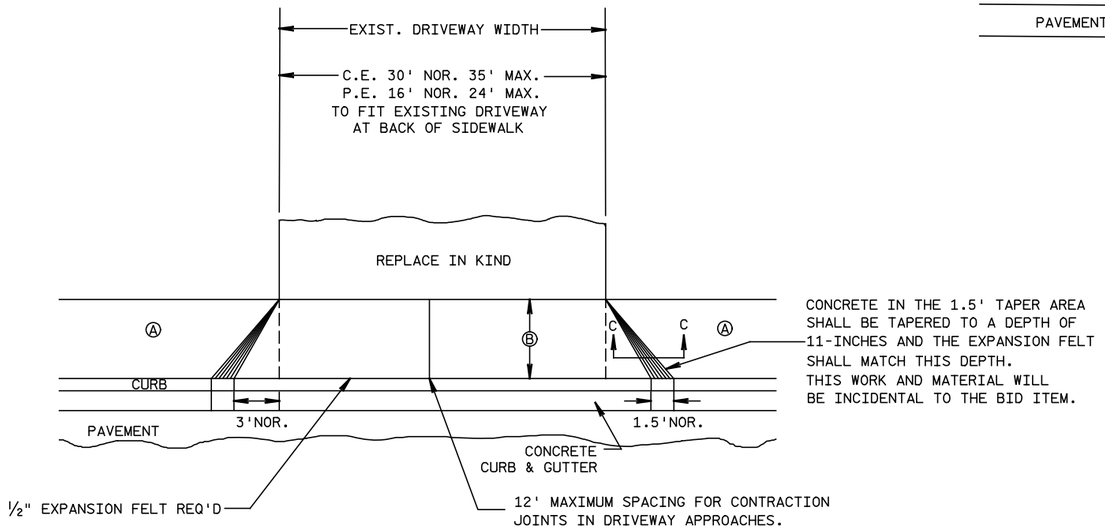
NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 15%

DEPRESS SHARED-USE PATH IF DRIVEWAY APRON EXCEEDS MAX SLOPE



DEPRESSED SHARED-USE PATH PROFILE DETAIL

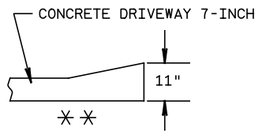
DRIVEWAY ENTRANCE DETAIL WITHOUT SHARED-USE PATH, CURB & GUTTER



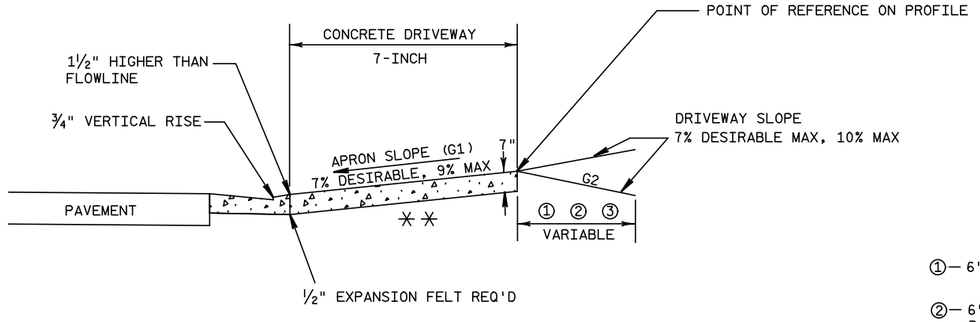
PLAN VIEW

Ⓐ CONCRETE SIDEWALK 5-INCH
STA. 1167+46.42 - STA. 1188+14.66

Ⓑ 5' TYPICAL IN LOCATIONS WITHOUT SIDEWALK
VARIES 6' TO 9' IN LOCATIONS WITH SIDEWALK



SECTION C-C



TYPICAL DRIVEWAY SECTION

① — 6" BASE AGG. DENSE 1 1/4-INCH

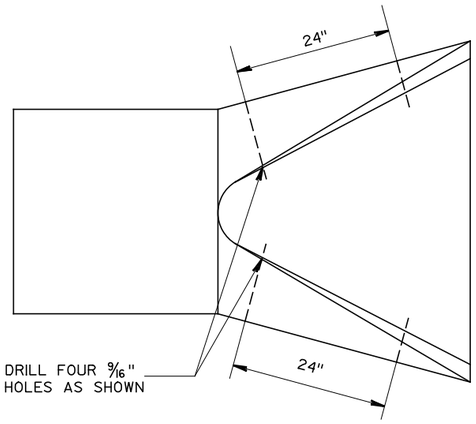
② — 6" BASE AGG. DENSE 1 1/4-INCH
BASE WITH 4" HMA PAVEMENT, TYPE E-1

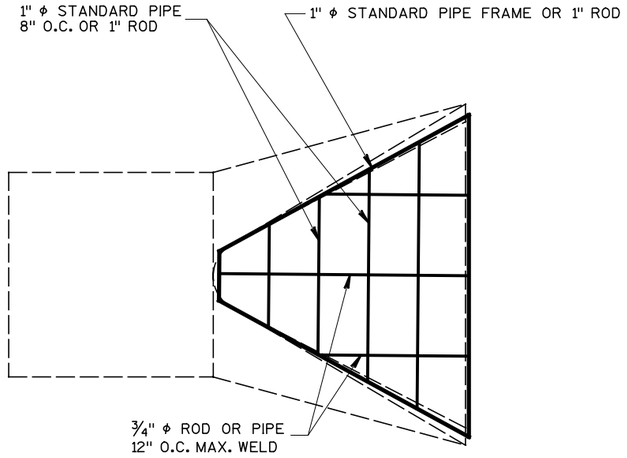
③ — 6" CONCRETE DRIVEWAY OF
H.E.S. CONCRETE DRIVEWAY

✳✳ = 6" BASE AGG. DENSE 1 1/4-INCH
REQ'D UNDER CONCRETE DRWY

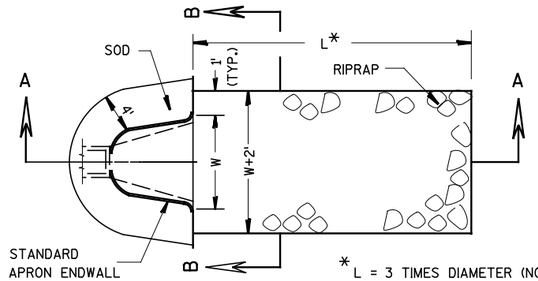
NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT
GRADES G1 & G2 TO NOT EXCEED 15%

DEPRESS SHARED-USE PATH IF DRIVEWAY
APRON EXCEEDS MAX SLOPE

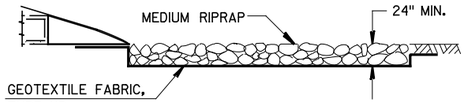




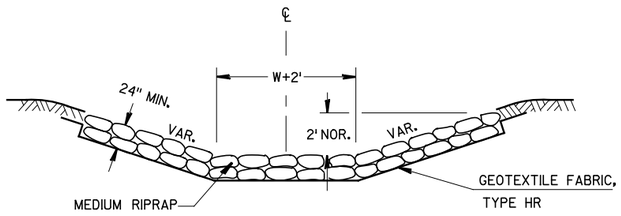
AT EACH PIPE



*L = 3 TIMES DIAMETER (NOR.) OR 10' MIN. OR AS DIRECTED BY THE ENGINEER

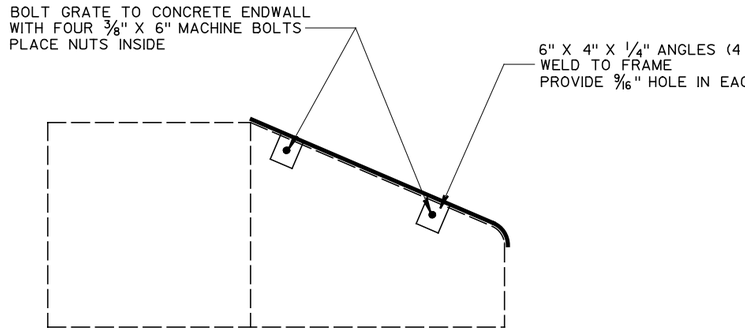


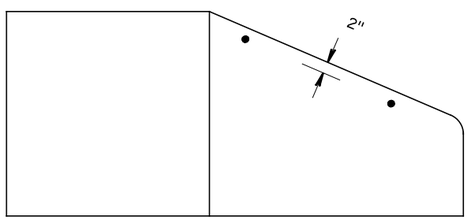
SECTION A-A

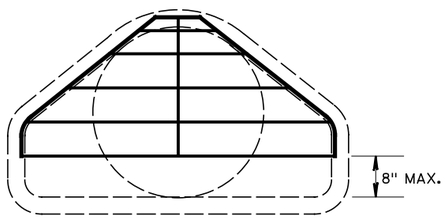


SECTION B-B

SOD, RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS



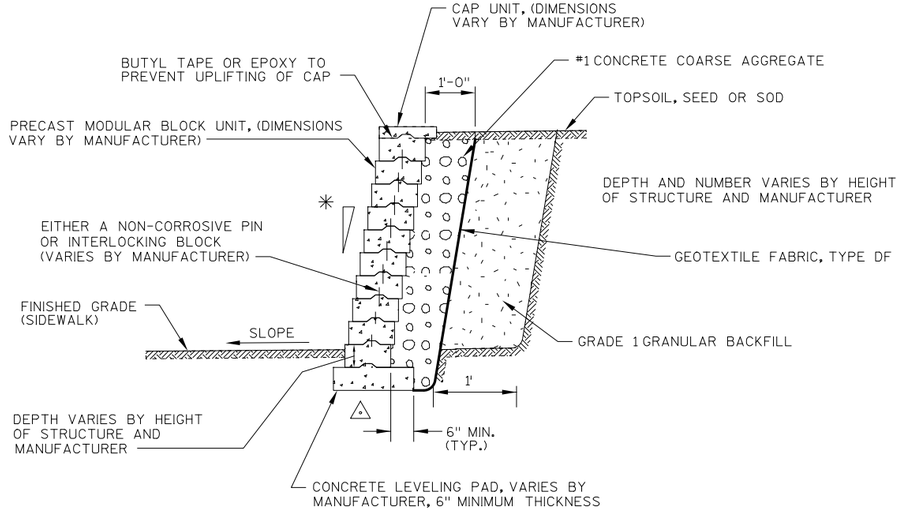




PIPE GRATE DETAIL

PIPE GRATE LOCATIONS

STRUCTURE NO.	LOCATION
1.2	1086+50.8, 71.4' RT
200.0	685"G"+87.6, 27.1' LT
300.0	686"G"+52.6, 34.7' LT
600.0	1169+01.0, 357.2' LT
700.0	1180+35.2, 353.9' LT
800.0	1192+63.0, 35.2' RT

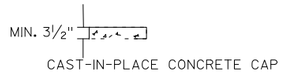


✳ SETBACK VARIES BY MANUFACTURER MAXIMUM FRONT FACE SLOPE FROM VERTICAL IS 1 HORIZONTAL TO 4 VERTICAL

SLOPE WALL TERMINI AS NECESSARY TO BLEND INTO ADJACENT TERRAIN

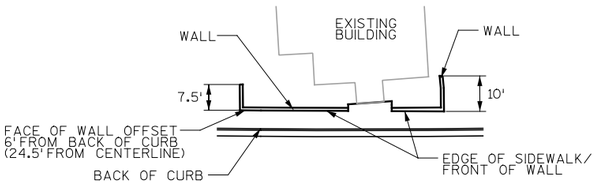
△ BASE SOIL PARAMETERS

COHESION	=	0
PHI-ANGLE	=	30°
WET UNIT WEIGHT	=	120 p.c.f.



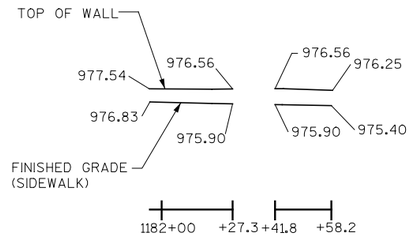
TYPICAL DETAIL FOR, MODULAR BLOCK GRAVITY WALL

STA. 1181+91.4 -STA. 1182+58.2, 24.5' LT
STA. 1112+50.0 -STA. 1113+50.0, 27.9' RT



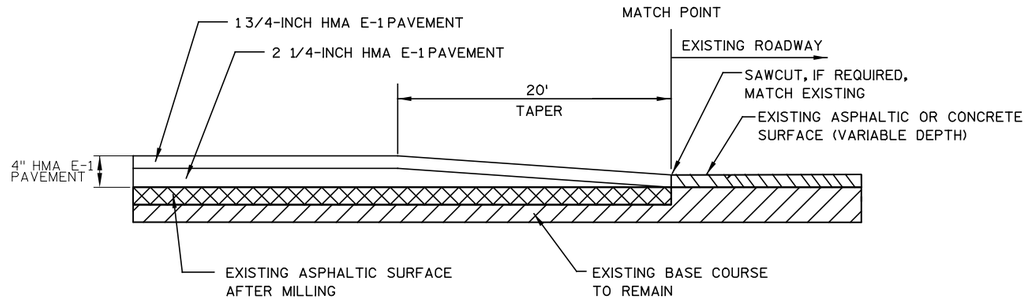
MODULAR BLOCK GRAVITY WALL - PLAN

STA. 1181+91.4 -STA. 1182+58.2, LT



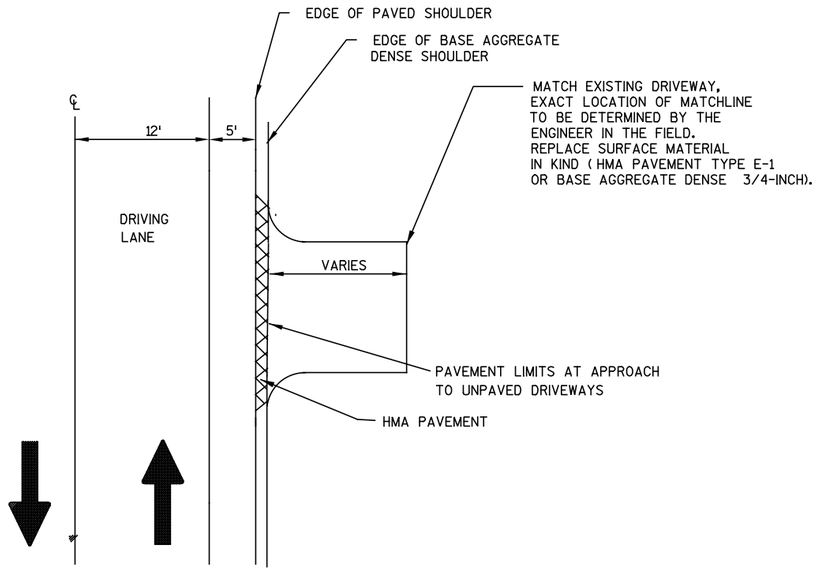
MODULAR BLOCK GRAVITY WALL - ELEVATION

STA. 1181+91.4 -STA. 1182+58.2, LT
(VERIFY TOP OF WALL ELEVATIONS IN FIELD)



BUTT JOINT DETAIL AT MATCH POINT

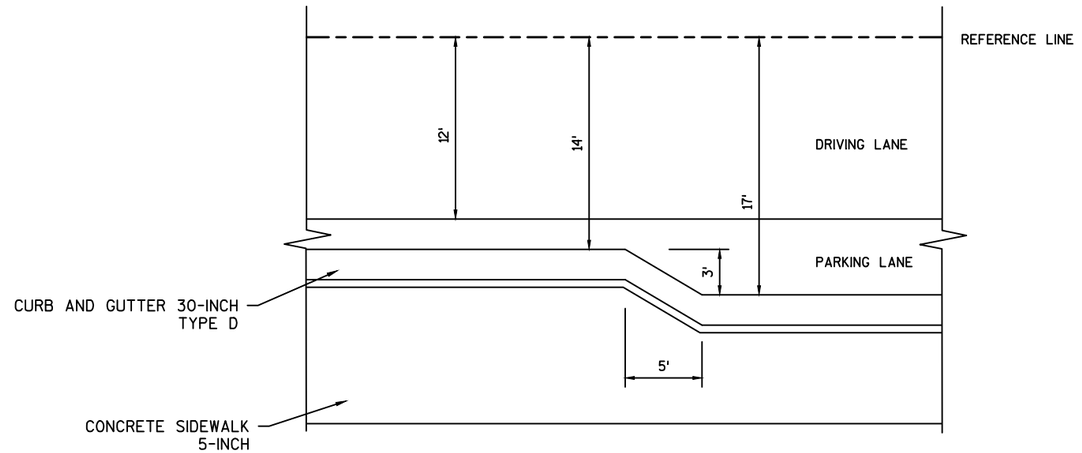
EXISTING ASPHALT SURFACE: SKYLINE DRIVE
EXISTING ASPHALT SURFACE: REFLECTIONS DRIVE



DRIVEWAY INTERSECTION DETAIL

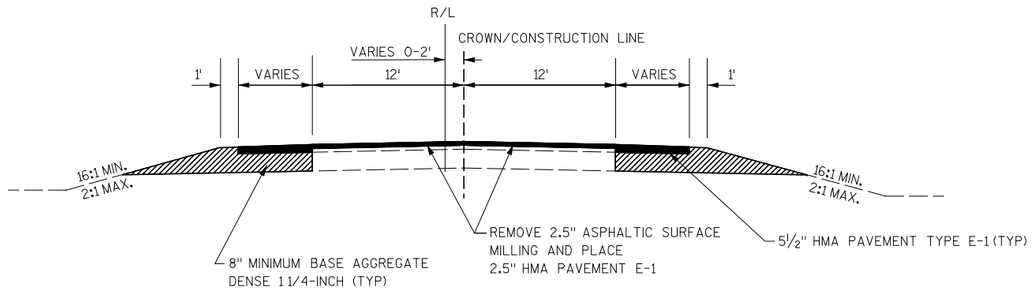
(PAVED SHOULDER ON HIGHWAYS)

2



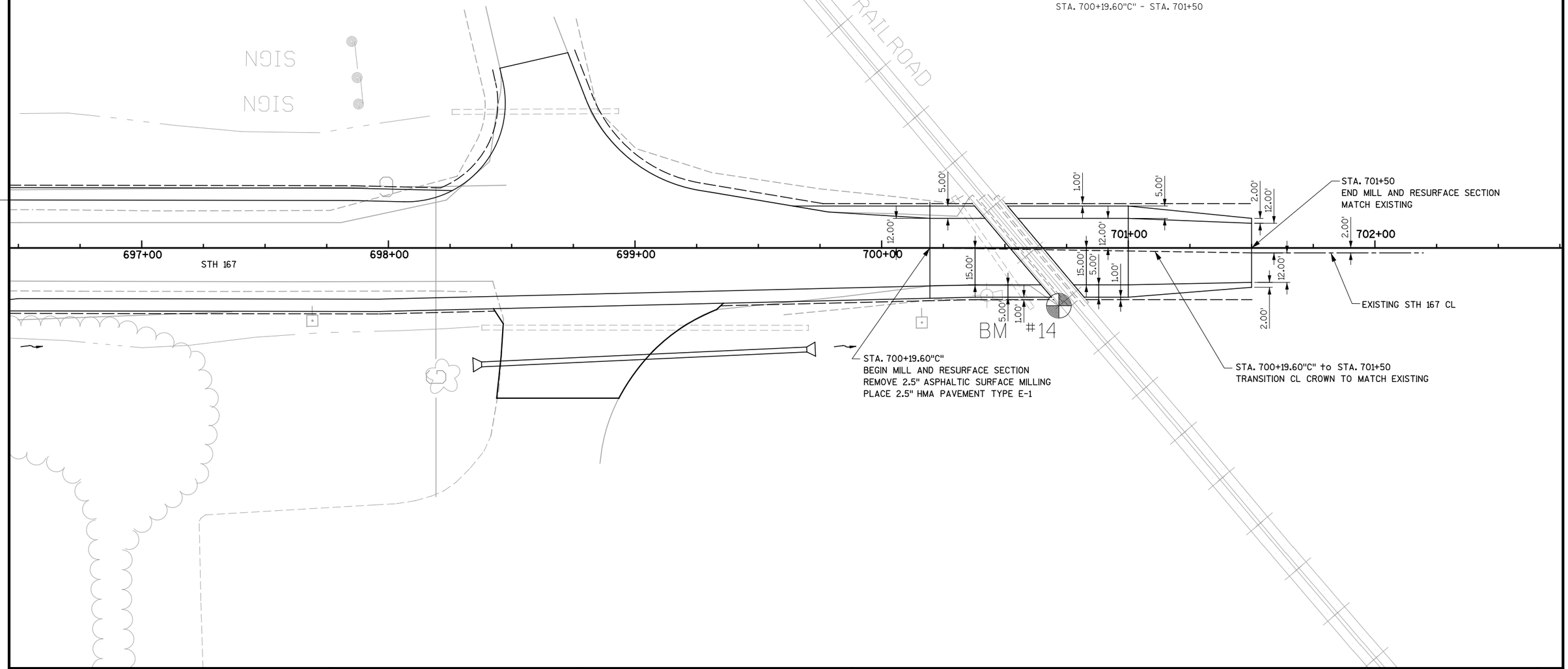
PARKING LANE CURB BUMP OUT

2

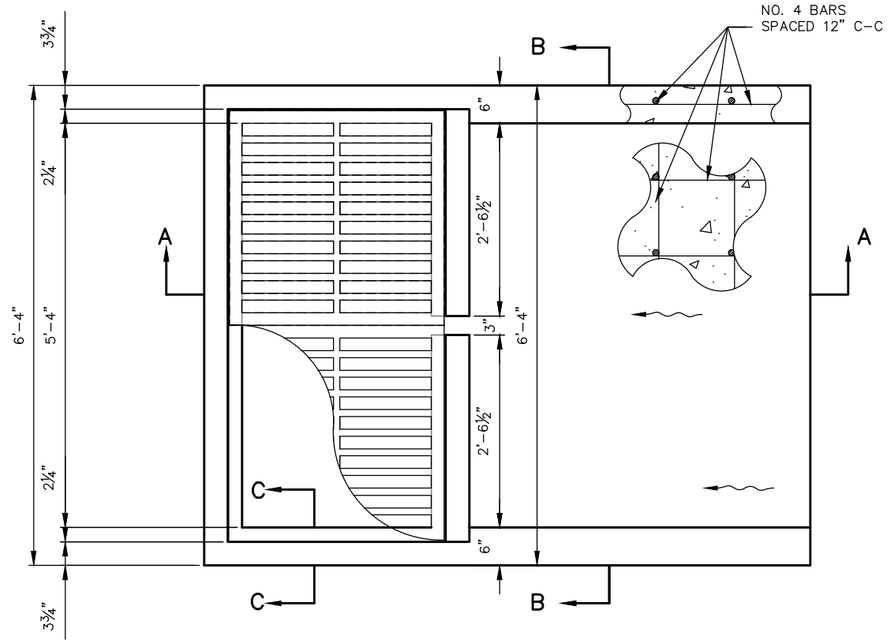


MILL AND RESURFACE SECTION

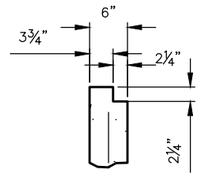
STA. 700+19.60"C" - STA. 701+50



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	R.R. CROSSING - STH 167 PLAN DETAIL	SHEET 30	E



PLAN VIEW



SECTION C–C

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF SECTION 611 STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

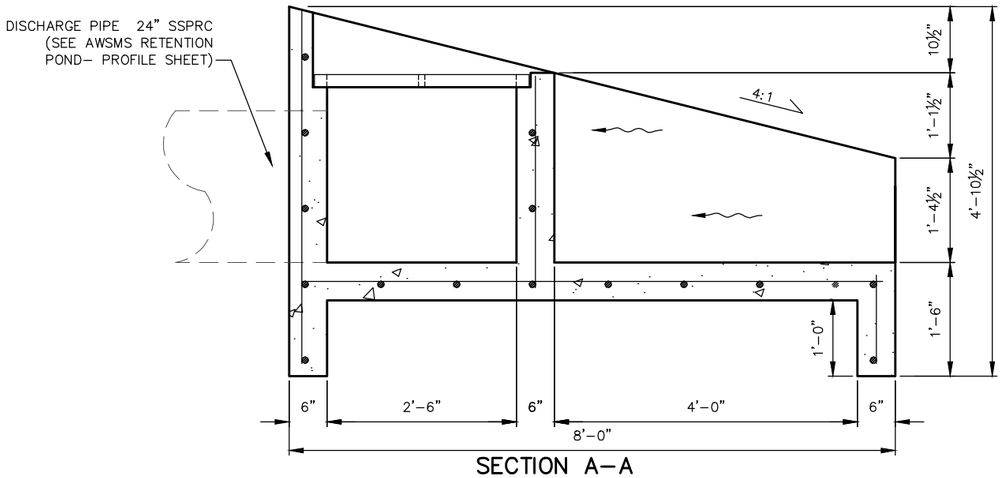
UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

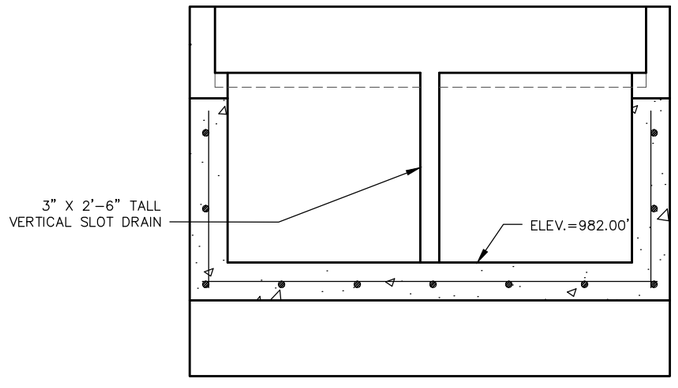
ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ARTIFICIAL WETLAND STORM WATER MANAGEMENT SYSTEM (AWSMS)

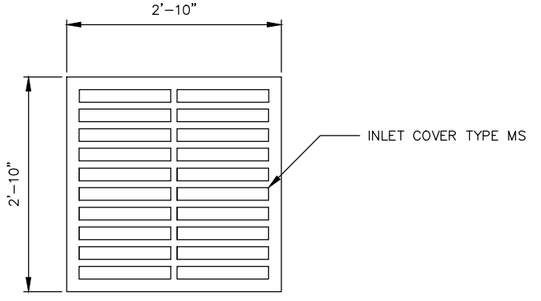
INLET COVER TYPE MS PAID SEPARATELY FROM STRUCTURE.



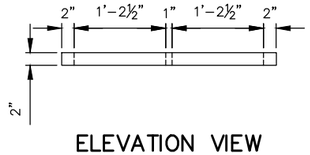
SECTION A–A



SECTION B–B



PLAN VIEW

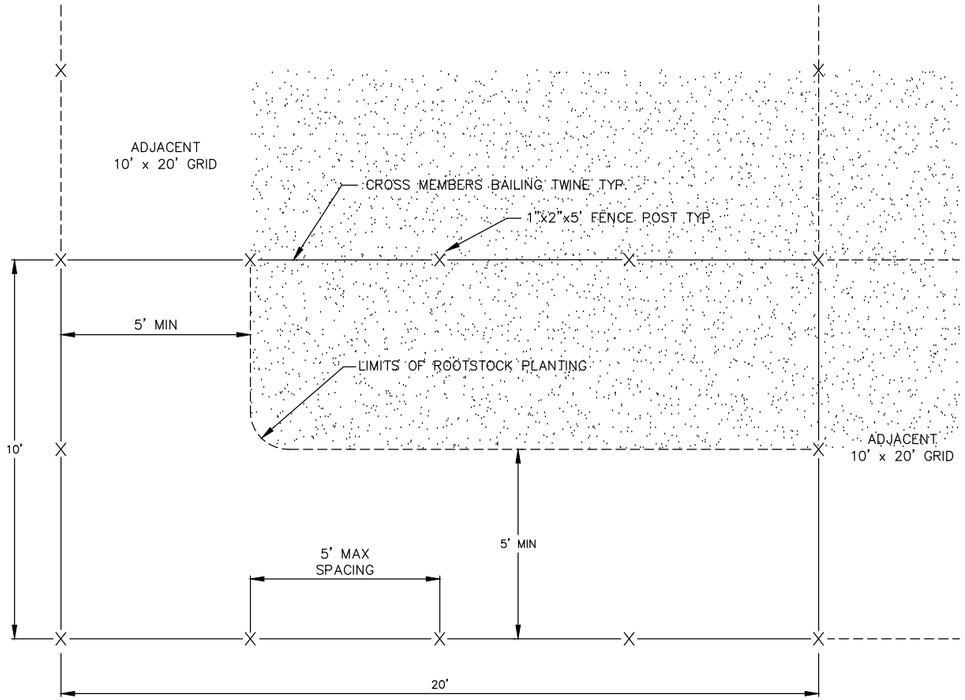


ELEVATION VIEW

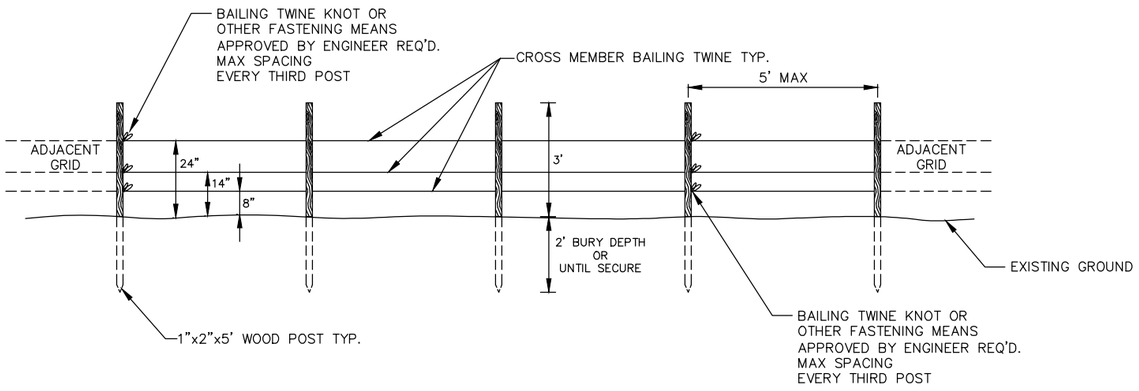
PROJECT NUMBER: 3360–09–70	HWY: STH 175	COUNTY: WASHINGTON	AWSMS RETENTION POND – OUTFALL STRUCTURE DETAIL	SHEET NO:	E

FILE NAME: W:\x–Projects\RD\7140\project 1 dgn\021006_cd.dwg PLOT DATE: Oct 31, 2014 PLOT BY: luke0 PLOT SCALE: 1"=1' ROTATION:

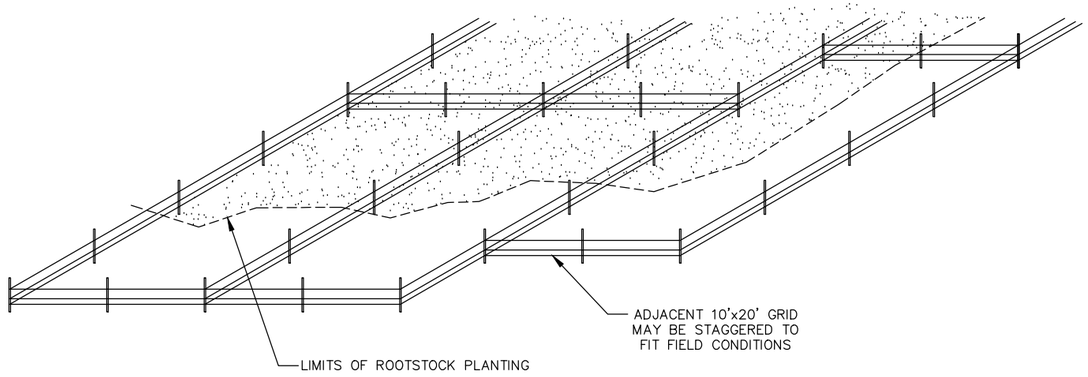
2



PLAN VIEW



PROFILE VIEW



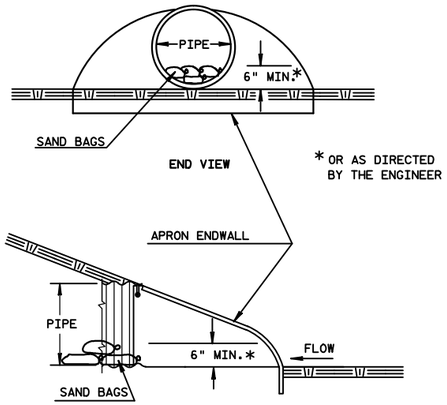
ISOMETRIC VIEW

ROOTSTOCK PROTECTION

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CONSTRUCTION DETAILS	SHEET	E

FILE NAME: W:\x-Projects\RD\7140\project 1 dgn\021007_cd.dwg PLOT DATE: Oct 06, 2014 PLOT BY: luke0 PLOT SCALE: ROTATION:

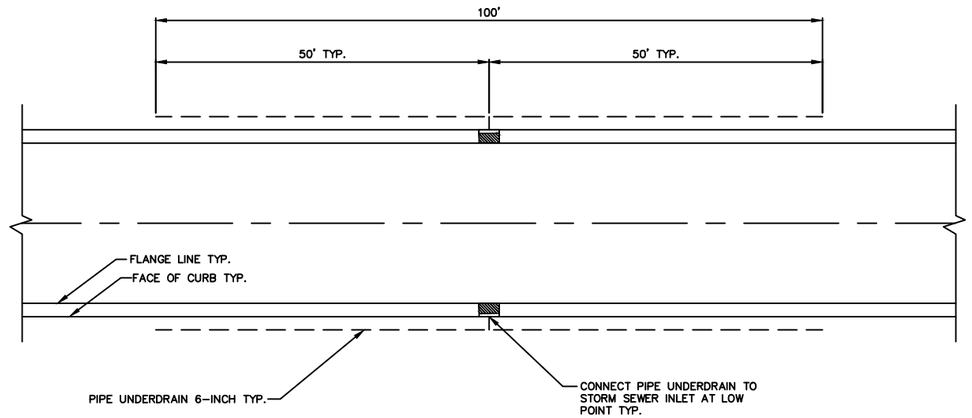
2



SIDE VIEW

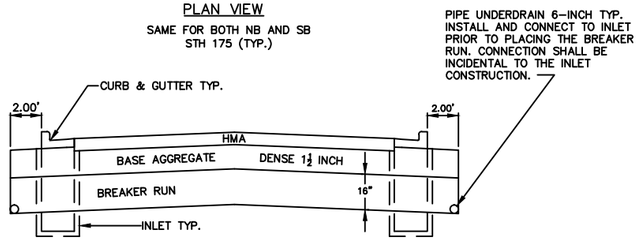
CULVERT PIPE CHECK

CULVERT PIPE CHECK LOCATION	PIPE SIZE	ESTIMATED NUMBER OF ROCK BAGS
1119+85 MAINLINE, RT	24"	3
1120+35 MAINLINE, RT	24"	3
1155+50 E LINE, RT	24"	3
1186+15 MAINLINE, RT	24"	3
1192+77 MAINLINE, RT	36"	7
698+38 STH 167, RT	24"	3



PLAN VIEW

SAME FOR BOTH NB AND SB STH 175 (TYP.)

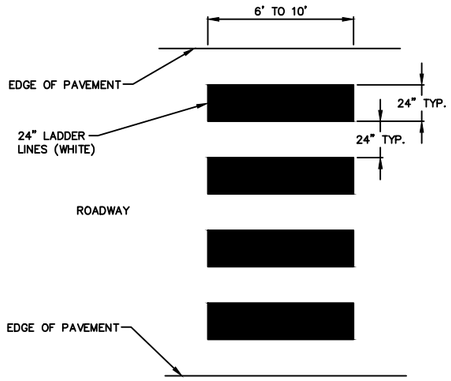


SECTION VIEW

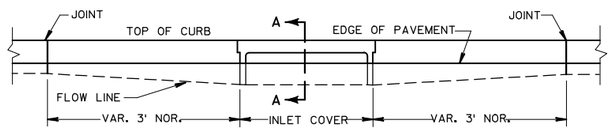
UNDERDRAIN IN BREAKER RUN AT PROFILE LOW POINTS

STH 175
(STRUCTURE NO. 9.1, 9.5, 606.1, 606.3)

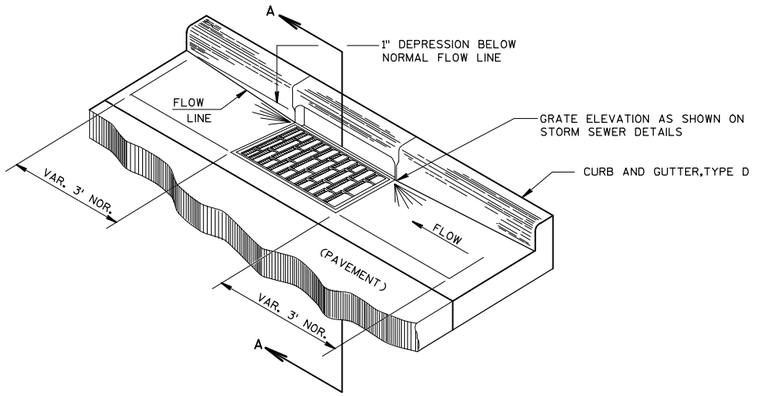
2

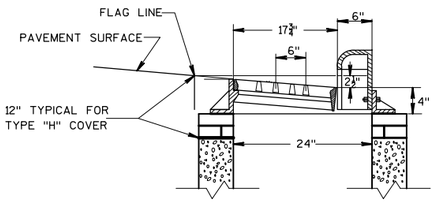


PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH
ITEM SPV.0090.07



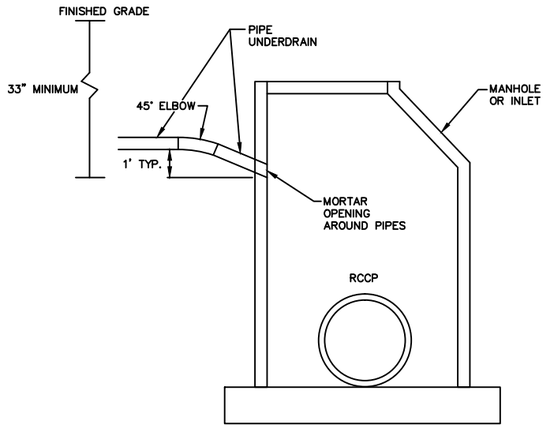
ELEVATION





SECTION A-A

DETAIL OF CURB AND GUTTER AT INLETS
(TYPE 3-H INLET SHOWN)



PIPE UNDERDRAIN CONNECTION TO MANHOLES AND INLETS
(UNDERDRAIN IN EBS AREAS)

2

POINT	STATION	OFFSET	N	E
720	1187+75.04	16.00' LT	124566.12	358688.98
721	1187+86.62	41.50' LT	124564.28	358661.04
722	1187+66.71	21.81' LT	124556.03	358687.79
723	1187+54.92	33.32' LT	124540.20	358683.21
724	1187+33.28	9.75' LT	124532.25	358714.21
725	1187+22.90	40.02' LT	124508.82	358692.42
726	1186+32.71	16.00' LT	124441.29	358755.65

LEGEND

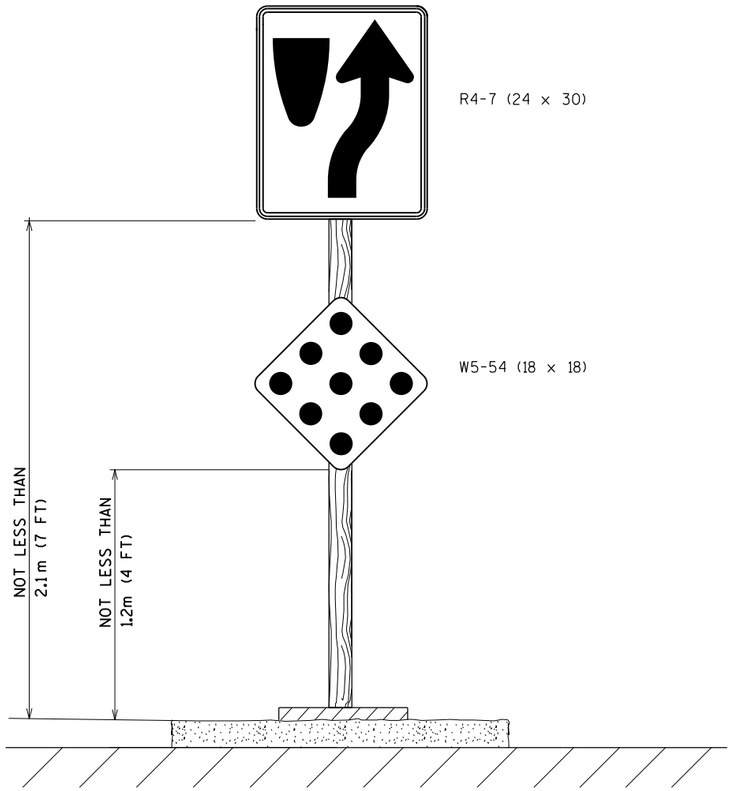
1. CONCRETE CURB & GUTTER 30-INCH TYPE D
2. SOD LAWN
3. ASPHALTIC FLUME
4. CONCRETE SIDEWALK 5-INCH
5. CONCRETE DRIVEWAY 7-INCH
6. BASE AGGREGATE DENSE 1 1/4-INCH
7. ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
8. CURB RAMP TYPE 8
9. CURB RAMP DETECTABLE WARNING FIELD YELLOW
10. SAWCUT, MATCH EXISTING

WALLS
SIGN
TANKS
WISCONSIN & SOURTHERN RAILROAD
RICHFIELD FIRE DEPARTMENT
STH 175
1183+00
1184+00
1185+00
1186+00
1187+00
1188+00
1189+00
SLOPE INTERCEPTS
BICYCLE BUMP-OUT
HMA PAVEMENT TYPE E-1
(TYP)
PT 1186+67.84
PI 1184+33.43
32'R
28'R
3'R
6.00'

POINT	STATION	OFFSET	N	E
700	1184+53.80	16.00' RT	124294.88	358863.31
701	1184+47.18	25.50' RT	124292.81	358874.72
702	1184+47.18	28.50' RT	124294.06	358877.45
703	1184+50.06	27.74' RT	124296.38	358875.55
704	1184+63.32	55.55' RT	124320.23	358895.16
705	1184+66.18	54.81' RT	124322.55	358893.26
706	1184+66.92	57.71' RT	124324.45	358895.58
707	1184+59.08	62.86' RT	124319.39	358903.61
708	1184+61.94	62.11' RT	124321.71	358901.70
709	1184+62.67	65.02' RT	124323.62	358904.02
710	1186+35.18	24.50' RT	124462.27	358790.38
711	1186+34.57	18.50' RT	124458.94	358785.35
712	1186+05.94	16.00' RT	124432.25	358796.38
713	1184+52.83	44.01' RT	124305.73	358889.15
714	1184+72.97	24.75' RT	124316.05	358863.12
715	1184+84.36	36.57' RT	124331.48	358868.93
716	1185+06.55	13.66' RT	124341.83	358838.65
717	1185+14.46	44.66' RT	124362.43	358863.13
718	1185+38.15	38.93' RT	124381.49	358847.51
719	1186+05.94	18.00' RT	124433.16	358798.16

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	R.R. CROSSING – STH 175 PLAN DETAIL	SHEET	E

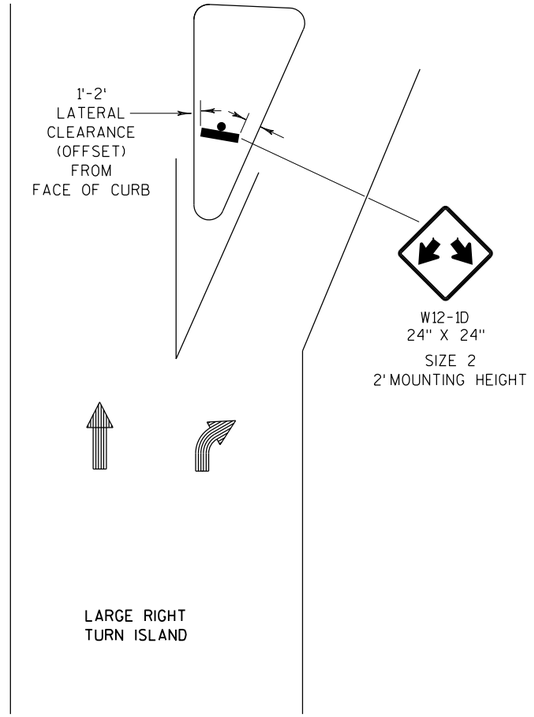
FILE NAME: W:\x-Projects\RD\7140\project 1 dgn\021010_cd.dwg PLOT DATE: Oct 21, 2014 PLOT BY: luke0 PLOT SCALE: ROTATION:



TYPICAL INSTALLATION FOR
TRANSITION TO DIVIDED HIGHWAY
OR OTHER SPECIAL NEEDS AREAS

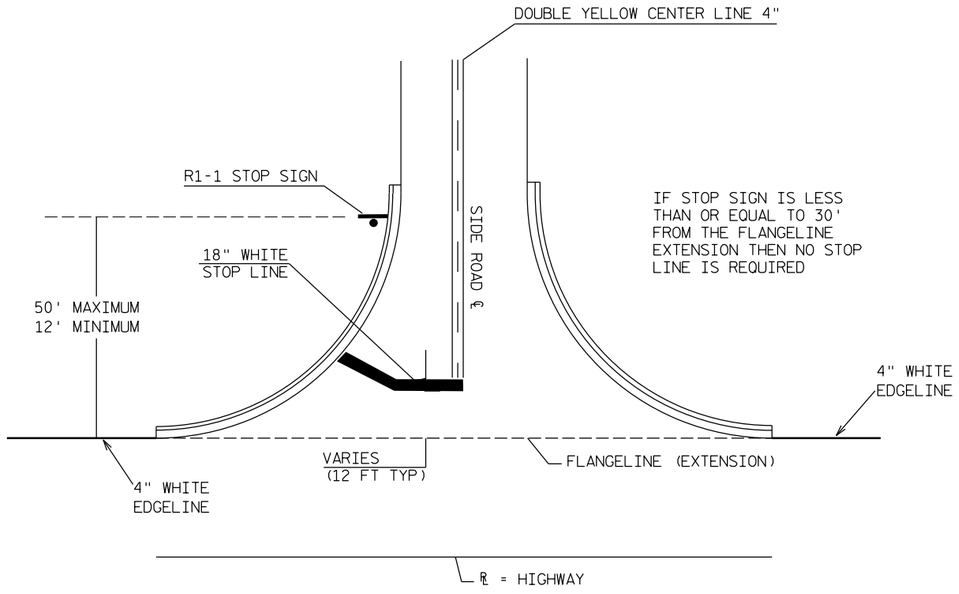
DETAIL FOR R4-7 INSTALLATION

SEE SIGNING PLANS
FOR PROPOSED SIGN LOCATIONS

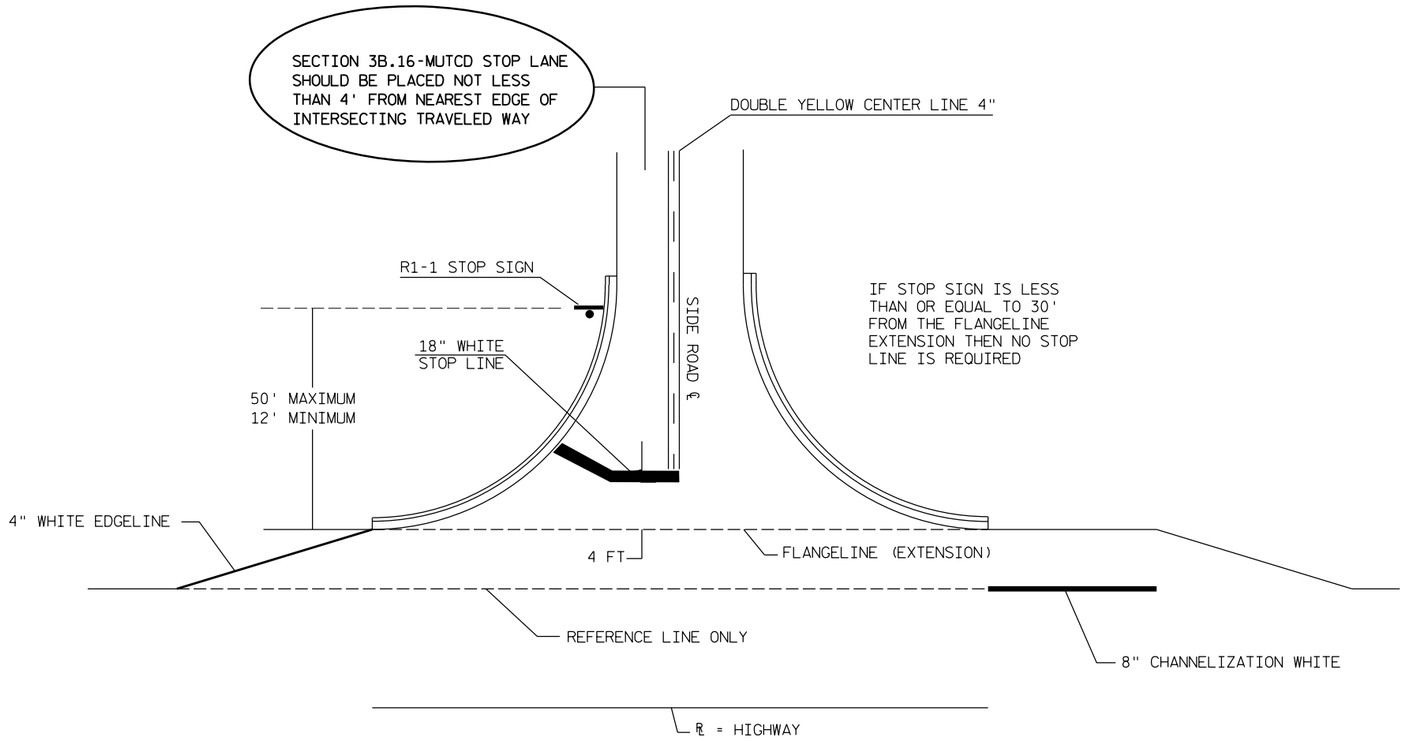


DETAIL FOR W12-1D INSTALLATION

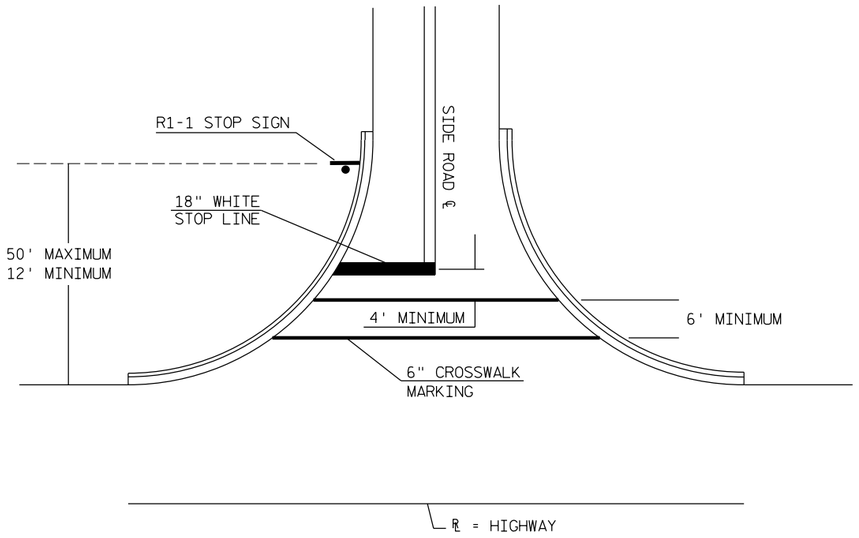
SEE SIGNING PLANS
FOR PROPOSED SIGN LOCATIONS



TYPICAL PAVEMENT MARKING FOR SIDEROADS



TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

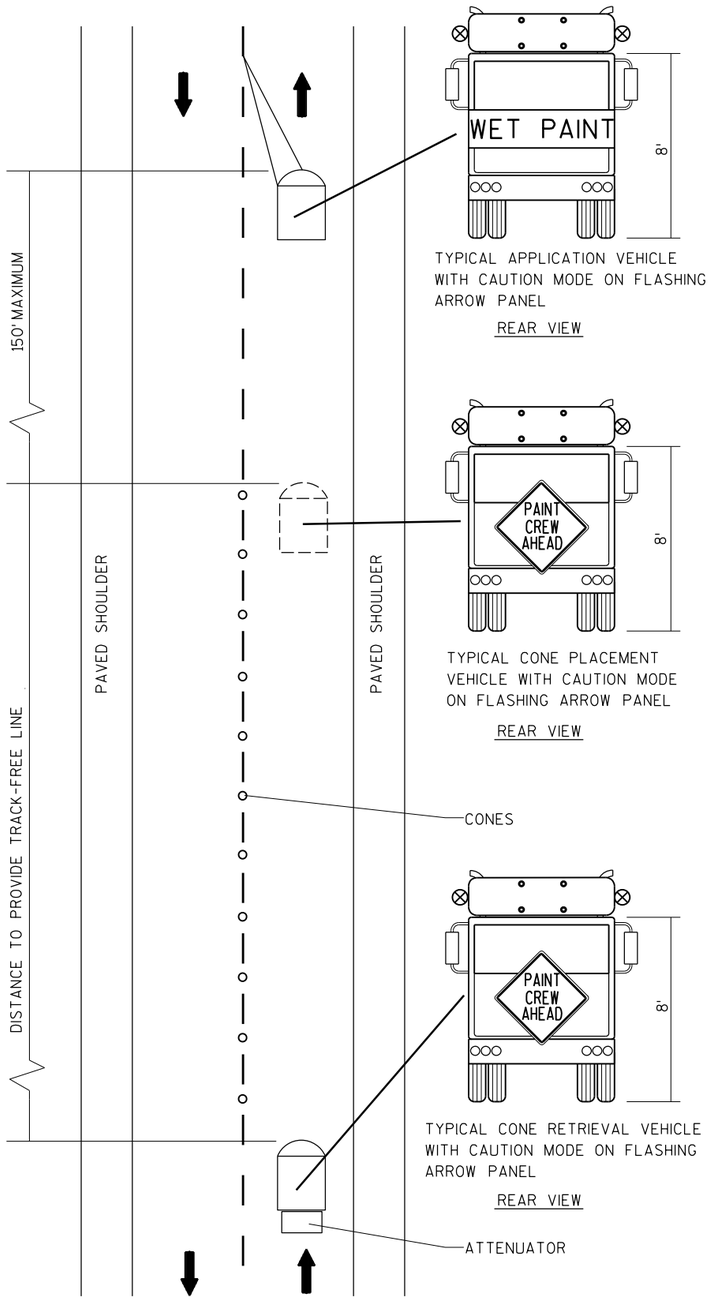
NOTES:

18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

STOP LINES REQUIRED WHERE:

- CROSSWALK MARKINGS EXIST OR BEING PROVIDED
- LARGE RADII
- OFFSET LEFT TURNS WHERE STOP BAR FOR LEFT TURN IS SET BACK FROM THRU MOVEMENT.

DETAIL FOR INTERSECTION MARKING



TYPICAL APPLICATION VEHICLE WITH CAUTION MODE ON FLASHING ARROW PANEL

REAR VIEW

TYPICAL CONE PLACEMENT VEHICLE WITH CAUTION MODE ON FLASHING ARROW PANEL

REAR VIEW

TYPICAL CONE RETRIEVAL VEHICLE WITH CAUTION MODE ON FLASHING ARROW PANEL

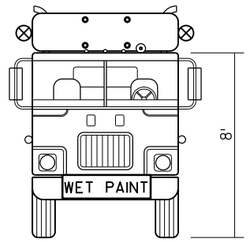
REAR VIEW

1. ALL VEHICLES SHALL BE EQUIPPED WITH ROTATING YELLOW BEACONS OR STROBE LIGHTS MOUNTED SUCH THAT AT LEAST ONE CAN BE SEEN FROM ANY APPROACH ANGLE.

2. THE APPLICATION VEHICLE SHALL BE EQUIPPED WITH FRONT AND REAR FACING TYPE A OR B FLASHING ARROW PANELS OPERATING IN CAUTION MODE. ALL SUBSEQUENT VEHICLES SHALL BE EQUIPPED WITH A REAR FACING TYPE A OR B FLASHING ARROW PANEL.

3. THE APPLICATION VEHICLE SHALL BE EQUIPPED WITH "WET PAINT" SIGNS FRONT AND REAR.

4. THE CONE PLACEMENT VEHICLE AND CONE RETRIEVAL VEHICLE SHALL BE EQUIPPED WITH A "PAINT CREW AHEAD" SIGN AND A REAR FACING FLASHING ARROW PANEL OPERATING IN CAUTION MODE.

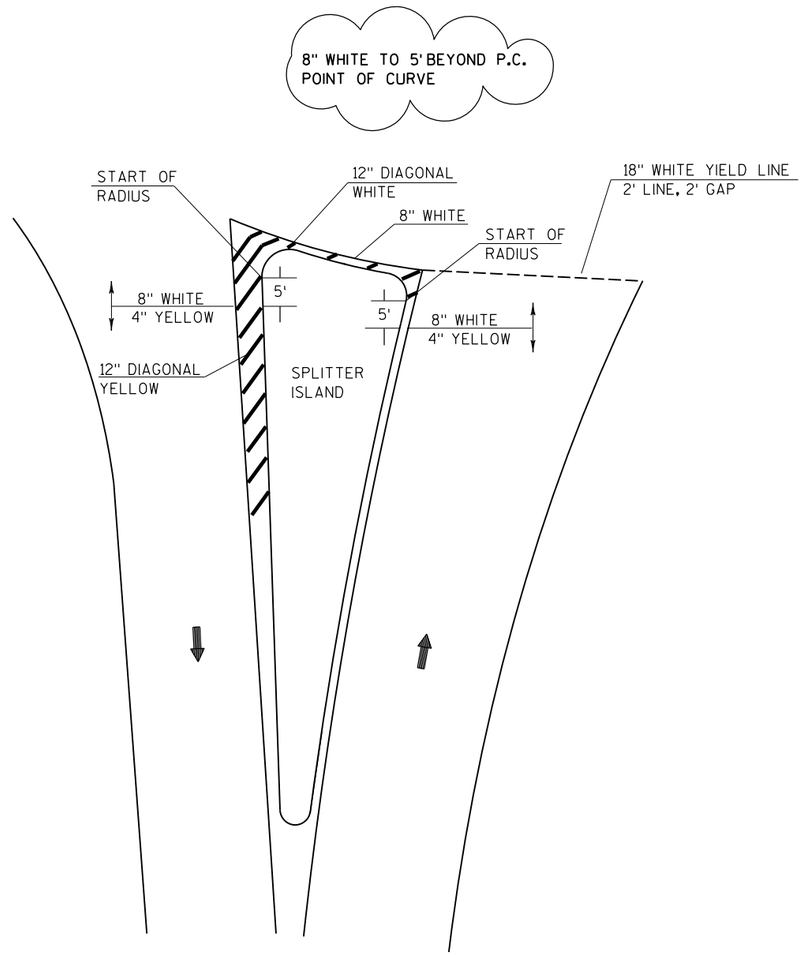


TYPICAL APPLICATION VEHICLE WITH CAUTION MODE ON FLASHING ARROW PANEL

FRONT VIEW

DETAIL FOR 2-LANE 2-WAY ROADWAY CENTERLINE MARKING INSTALLATION

2



DETAIL FOR ROUNDABOUT SPLITTER ISLAND MARKING

PT. NO.	STATION	OFFSET	NORTHING	EASTING
137	1097+21.59	26.81' LT	115 963.72	361 352.29
138	1097+34.45	28.01' LT	115 975.65	361347.31
139	1097+34.22	30.50' LT	115 974.69	361 345.01
139	99+73.93"HU"	18.50' RT	115 974.69	361 345.01
140	99+73.93"HU"	16.00' RT	115 977.19	361 345.03
141	99+52.59"HU"	16.00' RT	115 977.42	361 323.69
142	99+52.59"HU"	18.50' RT	115 974.92	361 323.66
142	1097+40.80	50.80' LT	115 974.92	361 323.66
143	99+51.90"HU"	20.90' RT	115 972.53	361 322.94
144	99+24.27"HU"	117.01' RT	115 876.73	361 294.25
144	1096+55.82	108.12' LT	115 876.73	361 294.25
145	99+77.70"HU"	32.48' RT	115 960.66	361 348.62
146	99+79.04"HU"	30.37' RT	115 962.76	361 349.98
146	1097+21.36	29.30' LT	115 962.76	361 349.98
147	1092+91.07	21.74' RT	115 567.18	361 526.80
148	1093+57.52	22.39' RT	115 630.81	361 507.63

NOTES:
OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER
RADII ARE TO THE FLANGE LINE OF CURB & GUTTER

LEGEND

1. CONCRETE CURB & GUTTER 30-INCH TYPE D
2. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
3. CONCRETE CURB & GUTTER 18-INCH TYPE D
4. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
5. CONCRETE CURB TYPE A
6. COLORED CONCRETE 8-INCH
7. ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
8. CONCRETE SIDEWALK 5-INCH
9. SALVAGED TOPSOIL, FERTILIZER, SOD
10. SAWING ASPHALT, MATCH EXISTING
11. CONCRETE MEDIAN SLOPED NOSE TYPE 1
12. CONCRETE MEDIAN SLOPED NOSE TYPE 2
13. CURB RAMP TYPE 4B
14. CURB RAMP TYPE 6
15. CONCRETE DRIVEWAY 7-INCH
16. BASE AGGREGATE DENSE 1 1/4-INCH
17. CONCRETE CURB & GUTTER 18-INCH REVERSE SLOPED TYPE D

HAZARDOUS MATERIAL AREA
(SEE "PLAN DETAIL" SHEET FOR INFO.

STA. 1097+43.78 =
STA. 100+00.00"HU"

HUBERTUS

FREISTADT

SHARED-USE PATH

STH 175

SEPTIC

SIGN

FILLER CAPS

CANOPY

MATCH EXISTING

PT. NO.	STATION	OFFSET	NORTHING	EASTING
101	1091+62.40	16.00' RT	115 442.64	361 559.64
102	1092+79.60	19.13' RT	115 555.45	361 527.72
103	1092+78.80	49.12' RT	115 563.62	361 556.59
104	1093+08.79	50.58' RT	115 592.68	361 549.06
105	1093+10.29	19.46' RT	115 584.85	361 518.902
106	1093+39.24	50.94' RT	115 621.86	361 540.34
107	1093+69.25	50.00' RT	115 650.23	361 530.51
108	1093+69.25	20.00' RT	115 641.29	361 501.87
109	1096+62.40	20.00' RT	115 921.15	361 414.59
110	1096+62.40	63.00' RT	115 933.96	361 455.64
110	100+85.02"HU"	58.00' RT	115 933.96	361 455.64
111	100+85.02"HU"	15.00' RT	115 976.95	361 456.12
112	103+00.00"HU"	15.00' RT	115 974.57	361 671.08
113	103+55.00"HU"	12.00' RT	115 976.96	361 726.11
114	103+55.00"HU"	12.00' LT	116 000.96	361 726.38
115	102+59.09"HU"	12.00' LT	116 002.02	361 630.46
116	101+59.19"HU"	24.00' LT	116 015.13	361 530.70
117	100+84.50"HU"	24.00' LT	116 015.96	361 456.04
118	100+84.50"HU"	122.00' LT	116 113.95	361 457.13
118	1098+33.79	118.00' RT	116 113.95	361 457.13
119	1098+33.79	20.00' RT	116 084.78	361 363.57

PT. NO.	STATION	OFFSET	NORTHING	EASTING
120	1100+25.17	20.00' RT	116 267.48	361 306.59
121	1103+25.17	16.00' RT	116 552.69	361 213.47
122	1091+62.40	16.00' LT	115 433.11	361 529.09
123	1094+62.40	20.00' LT	115 718.32	361 435.95
124	1096+33.02	20.00' LT	115 881.20	361 385.15
125	1096+33.02	135.00' LT	115 846.96	361 275.37
125	99+05.72"HU"	147.00' RT	115 846.96	361 275.37
126	99+23.91"HU"	33.44' RT	115 960.30	361 294.82
127	98+33.80"HU"	22.00' RT	115 972.74	361 204.84
128	97+50.00"HU"	22.00' RT	115 973.67	361 121.03
129	97+00.00"HU"	22.00' RT	115 974.25	361 071.04
130	97+00.00"HU"	10.89' LT	116 007.11	361 071.40
131	97+50.00"HU"	15.00' LT	116 010.67	361 121.44
132	99+14.98"HU"	15.00' LT	116 008.84	361 286.42
133	99+14.97"HU"	58.00' LT	116 051.84	361 286.90
133	1098+25.17	63.00' LT	116 051.84	361 286.90
134	1098+25.17	20.00' LT	116 064.64	361 327.95
135	1101+75.17	20.00' LT	116 398.77	361 223.75
136	1103+25.17	16.00' LT	116 543.16	361 182.92

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	HUBERTUS/FREISTADT INTERSECTION DETAILS	SHEET 39	E

2

LEGEND

1. CONCRETE CURB & GUTTER 30-INCH TYPE D
2. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
3. CONCRETE CURB & GUTTER 18-INCH TYPE D
4. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
5. CONCRETE CURB & GUTTER 18-INCH REVERSE SLOPED TYPE A
6. CONCRETE ROUNDABOUT TRUCK APRON 8-INCH (COLORED RED)
7. ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
8. COLORED CONCRETE SIDEWALK 5-INCH
9. SALVAGED TOPSOIL, FERTILIZER, SOD
10. SAWING ASPHALT, MATCH EXISTING
11. CONCRETE MEDIAN SLOPED NOSE TYPE 1
12. CONCRETE MEDIAN SLOPED NOSE TYPE 2
13. CURB RAMP TYPE 4B
14. CURB RAMP TYPE 6
15. CURB RAMP TYPE 4A1
16. CONCRETE SIDEWALK 5-INCH
17. COLORED CONCRETE SIDEWALK 7-INCH
18. CONCRETE DRIVEWAY 7-INCH
19. BASE AGGREGATE DENSE 1 1/4-INCH

NOTES:
OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER
RADII ARE TO THE FLANGE LINE OF CURB & GUTTER

PT. NO.	STATION	OFFSET	NORTHING	EASTING
219	1146+97.85	16.00' LT	120 789.54	360 180.68
220	1149+30.72"A"	22.85' LT	121 018.63	360 138.14
221	1149+13.95"A"	592.61' LT	120 914.58	359 577.72
222	1149+66.66"A"	22.05' LT	121 053.80	360 130.46
223	1150+90.09"A"	16.00' LT	121 170.02	360 101.18
224	1151+25.40"A"	15.25' LT	121 204.43	360 093.22
225	1151+31.30"A"	105.15' LT	121 184.15	360 005.54
226	1151+44.37"A"	15.73' LT	121 221.19	360 087.56
227	1150+90.09"A"	312.00' LT	121 097.72	359 814.15
228	687+78.85	55.66' RT	121 250.84	360 072.13

PT. NO.	STATION	OFFSET	NORTHING	EASTING
229	1150+57.82"B"	19.27' RT	121 151.54	360 151.33
230	1150+67.50"B"	18.93' RT	121 160.60	360 147.90
231	1151+31.57"B"	35.15' RT	121 216.38	360 151.48
232	1151+33.65"B"	21.81' RT	121 218.23	360 138.17
233	1151+43.33"B"	22.45' RT	121 226.14	360 139.34
234	1151+42.99"B"	29.95' RT	121 225.11	360 146.77
235	689+04.28"C"	40.26' RT	121 258.81	360 203.69
236	688+94.01"C"	61.82' RT	121 266.20	360 193.33
237	689+02.43"C"	30.51' RT	121 268.34	360 201.03
238	689+16.54"C"	28.01' RT	121 271.96	360 214.05
239	689+36.22"C"	19.77' RT	121 281.16	360 232.34
240	689+28.26"C"	20.33' RT	121 280.29	360 224.73
241	689+01.07"C"	23.02' RT	121 275.67	360 198.99
242	688+92.80"C"	24.40' RT	121 273.43	360 191.31
243	1148+94.54"B"	28.74' RT	120 990.80	360 198.35
244	1149+66.24"B"	19.05' RT	121 061.12	360 178.95

PT. NO.	STATION	OFFSET	NORTHING	EASTING
201	1147+00.00"B"	16.00' RT	120 796.66	360 211.95
202	1147+47.99"B"	1499.26' RT	121 044.17	361 675.20
203	1147+83.37"B"	15.65' RT	120 878.88	360 200.40
204	1148+73.42"B"	25.79' RT	120 969.48	360 198.28
205	1148+86.63"B"	98.51' LT	120 965.78	360 073.33
206	1149+03.18"B"	25.39' RT	120 998.91	360 193.86
207	1148+84.41"B"	62.24' RT	120 985.29	360 232.92
208	1149+19.41"B"	62.00' RT	121 019.94	360 227.95
209	1149+49.27"B"	51.52' RT	121 048.11	360 213.54
210	1149+77.81"B"	51.00' RT	121 082.44	360 206.71
211	1149+77.87"B"	16.00' RT	121 073.41	360 172.89
212	1150+30.86"B"	17.42' RT	121 125.41	360 158.19
213	1150+35.26"B"	72.48' LT	121 100.80	360 071.62

PT. NO.	STATION	OFFSET	NORTHING	EASTING
214	1150+38.47"B"	17.46' RT	121 132.63	360 155.80
215	1150+77.51"B"	16.07' RT	121 169.17	360 141.99
216	1150+81.33"B"	123.00' RT	121 207.01	360 242.07
217	1151+47.34"B"	20.20' RT	121 229.70	360 137.50
218	688+79.37"C"	77.61' RT	121 219.10	360 186.37

2

PT. NO.	STATION	OFFSET	NORTHING	EASTING
317	1154+31.49"F"	18.50' LT	121 501.06	360 013.42
318	1154+23.49"F"	18.50' LT	121 494.87	360 018.48
319	1154+18.50"F"	26.00' LT	121 486.26	360 015.84
320	1154+10.50"F"	26.00' LT	121 480.07	360 020.91
321	1153+14.49"F"	39.97' LT	121 401.34	360 050.78
322	1153+11.88"F"	30.14' LT	121 402.50	360 060.72
323	1153+10.24"F"	22.75' LT	121 403.38	360 068.17
324	1153+00.54"F"	24.21' LT	121 395.38	360 068.66
325	1153+01.44"F"	31.77' LT	121 394.50	360 061.12
326	687+27.96"G"	29.48' LT	121 349.50	360 014.88
327	687+28.33"G"	19.43' LT	121 342.16	360 016.64
328	687+19.55"G"	20.93' LT	121 339.70	360 009.01
329	687+18.87"G"	29.06' LT	121 347.63	360 007.10
330	687+17.01"G"	38.29' LT	121 356.51	360 004.14
331	686+95.58"G"	26.49' LT	121 342.54	359 985.93
332	686+76.38"G"	18.83' LT	121 333.32	359 968.18
333	686+67.50"G"	19.41' LT	121 333.36	359 959.57

NOTES:
OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER
RADII ARE TO THE FLANGE LINE OF CURB & GUTTER

PT. NO.	STATION	OFFSET	NORTHING	EASTING
301	1152+73.03"E"	158.87' RT	121 428.23	360 275.65
302	1152+66.43"E"	19.25' RT	121 383.63	360 142.94
303	1153+05.51	256.90' LT	121 272.13	359 811.18
304	1153+84.86"E"	16.11' RT	121 493.80	360 082.03
305	1155+06.80"E"	16.00' RT	121 588.16	360 004.80
306	1155+06.80"E"	1000.00' RT	122 211.38	360 766.28
307	1157+68.78"E"	16.00' RT	121 806.64	359 869.37
308	1153+24.92"F"	69.42' LT	121 396.51	360 021.17
309	1153+09.41"F"	20.32' LT	121 403.38	360 070.69
310	1153+58.32"F"	136.00' LT	121 386.88	359 951.83
311	1153+58.32"F"	16.00' LT	121 445.67	360 056.45
312	685+14.96	2.97' RT	121 306.53	359 808.87
313	1154+10.50"F"	16.00' LT	121 486.40	360 028.64
314	1154+91.30"F"	16.00' LT	121 548.93	359 977.47
315	1155+83.43"F"	703.63' RT	122 004.15	360 533.67
316	1156+75.56"F"	16.00' LT	121 708.51	359 878.55

LEGEND

1. CONCRETE CURB & GUTTER 30-INCH TYPE D
2. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
3. CONCRETE CURB & GUTTER 18-INCH TYPE D
4. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
5. CONCRETE CURB & GUTTER 18-INCH REVERSE SLOPED TYPE A
6. CONCRETE ROUNDABOUT TRUCK APRON 8-INCH (COLORED RED)
7. ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
8. COLORED CONCRETE SIDEWALK 5-INCH
9. SALVAGED TOPSOIL, FERTILIZER, SOD
10. SAWING ASPHALT, MATCH EXISTING
11. CONCRETE MEDIAN SLOPED NOSE TYPE 1
12. CONCRETE MEDIAN SLOPED NOSE TYPE 2
13. CURB RAMP TYPE 4B
14. CURB RAMP TYPE 6
15. CURB RAMP TYPE 4A1
16. CONCRETE SIDEWALK 5-INCH
17. COLORED CONCRETE SIDEWALK 7-INCH
18. CONCRETE DRIVEWAY 7-INCH
19. BASE AGGREGATE DENSE 1 1/4-INCH

PT. NO.	STATION	NORTHING	EASTING
334	0+00	121 331.396	360 059.469
335	0+25	121 307.298	360 053.759
336	0+55	121 278.948	360 062.256
337	1+00	121 255.575	360 099.100
338	1+35	121 262.275	360 132.779
339	1+80	121 297.993	360 157.875
340	2+00	121 317.870	360 157.741
341	2+25	121 340.325	360 147.298
342	2+65	121 359.605	360 113.333
343	3+00	121 352.851	360 079.665
344	---	121 307.584	360 106.258

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	NORTH LEG - STH 167 ROUNDABOUT DETAILS	SHEET 41	E

2

LEGEND

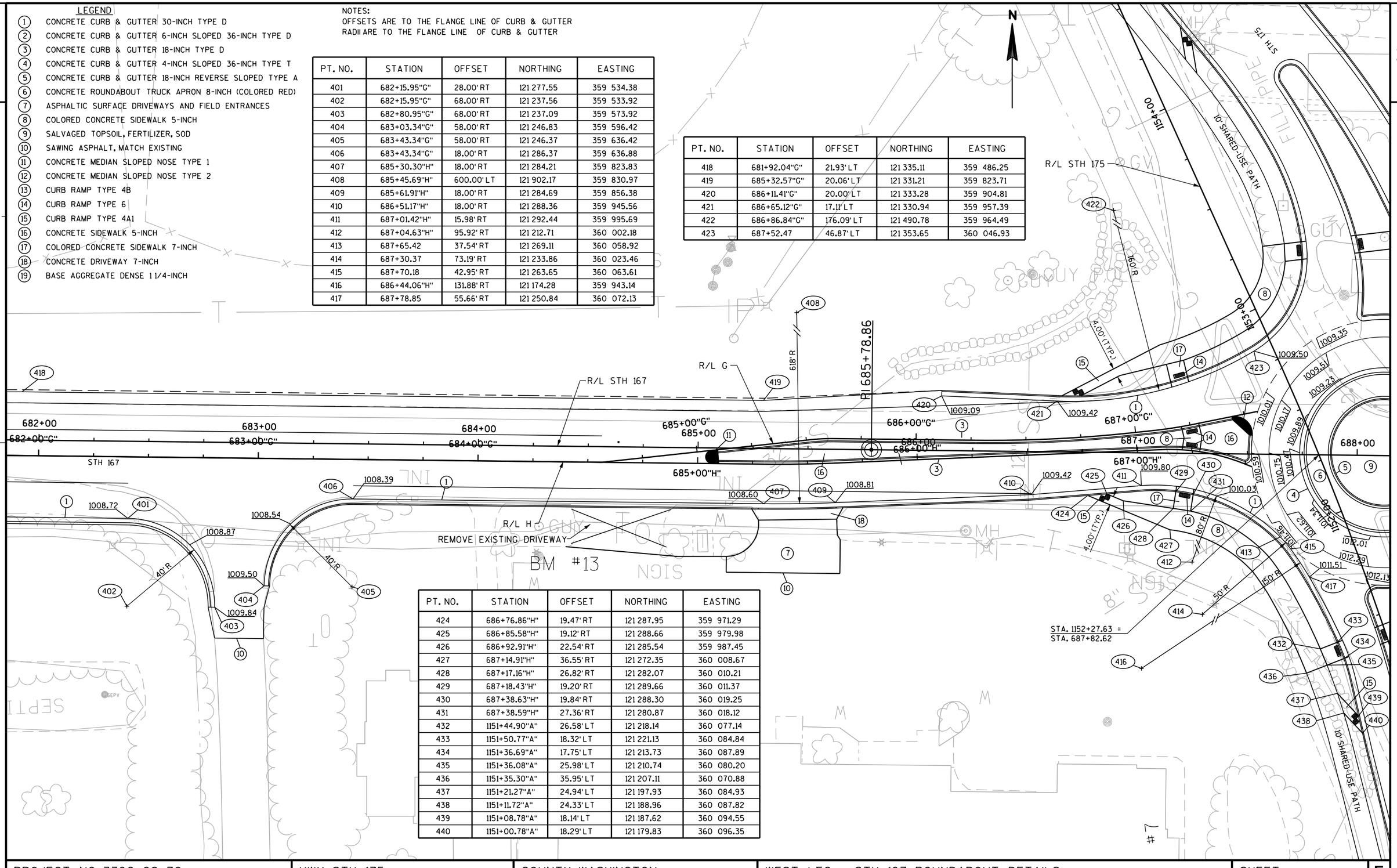
1. CONCRETE CURB & GUTTER 30-INCH TYPE D
2. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
3. CONCRETE CURB & GUTTER 18-INCH TYPE D
4. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
5. CONCRETE CURB & GUTTER 18-INCH REVERSE SLOPED TYPE A
6. CONCRETE ROUNDABOUT TRUCK APRON 8-INCH (COLORED RED)
7. ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
8. COLORED CONCRETE SIDEWALK 5-INCH
9. SALVAGED TOPSOIL, FERTILIZER, SOD
10. SAWING ASPHALT, MATCH EXISTING
11. CONCRETE MEDIAN SLOPED NOSE TYPE 1
12. CONCRETE MEDIAN SLOPED NOSE TYPE 2
13. CURB RAMP TYPE 4B
14. CURB RAMP TYPE 6
15. CURB RAMP TYPE 4A1
16. CONCRETE SIDEWALK 5-INCH
17. COLORED CONCRETE SIDEWALK 7-INCH
18. CONCRETE DRIVEWAY 7-INCH
19. BASE AGGREGATE DENSE 1 1/4-INCH

NOTES:
OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER
RADII ARE TO THE FLANGE LINE OF CURB & GUTTER

PT. NO.	STATION	OFFSET	NORTHING	EASTING
401	682+15.95"G"	28.00' RT	121 277.55	359 534.38
402	682+15.95"G"	68.00' RT	121 237.56	359 533.92
403	682+80.95"G"	68.00' RT	121 237.09	359 573.92
404	683+03.34"G"	58.00' RT	121 246.83	359 596.42
405	683+43.34"G"	58.00' RT	121 246.37	359 636.42
406	683+43.34"G"	18.00' RT	121 286.37	359 636.88
407	685+30.30"H"	18.00' RT	121 284.21	359 823.83
408	685+45.69"H"	600.00' LT	121 902.17	359 830.97
409	685+61.91"H"	18.00' RT	121 284.69	359 856.38
410	686+51.17"H"	18.00' RT	121 288.36	359 945.56
411	687+01.42"H"	15.98' RT	121 292.44	359 995.69
412	687+04.63"H"	95.92' RT	121 212.71	360 002.18
413	687+65.42	37.54' RT	121 269.11	360 058.92
414	687+30.37	73.19' RT	121 233.86	360 023.46
415	687+70.18	42.95' RT	121 263.65	360 063.61
416	686+44.06"H"	131.88' RT	121 174.28	359 943.14
417	687+78.85	55.66' RT	121 250.84	360 072.13

PT. NO.	STATION	OFFSET	NORTHING	EASTING
418	681+92.04"G"	21.93' LT	121 335.11	359 486.25
419	685+32.57"G"	20.06' LT	121 331.21	359 823.71
420	686+11.41"G"	20.00' LT	121 333.28	359 904.81
421	686+65.12"G"	17.11' LT	121 330.94	359 957.39
422	686+86.84"G"	176.09' LT	121 490.78	359 964.49
423	687+52.47	46.87' LT	121 353.65	360 046.93

PT. NO.	STATION	OFFSET	NORTHING	EASTING
424	686+76.86"H"	19.47' RT	121 287.95	359 971.29
425	686+85.58"H"	19.12' RT	121 288.66	359 979.98
426	686+92.91"H"	22.54' RT	121 285.54	359 987.45
427	687+14.91"H"	36.55' RT	121 272.35	360 008.67
428	687+17.16"H"	26.82' RT	121 282.07	360 010.21
429	687+18.43"H"	19.20' RT	121 289.66	360 011.37
430	687+38.63"H"	19.84' RT	121 288.30	360 019.25
431	687+38.59"H"	27.36' RT	121 280.87	360 018.12
432	1151+44.90"A"	26.58' LT	121 218.14	360 077.14
433	1151+50.77"A"	18.32' LT	121 221.13	360 084.84
434	1151+36.69"A"	17.75' LT	121 213.73	360 087.89
435	1151+36.08"A"	25.98' LT	121 210.74	360 080.20
436	1151+35.30"A"	35.95' LT	121 207.11	360 070.88
437	1151+21.27"A"	24.94' LT	121 197.93	360 084.93
438	1151+11.72"A"	24.33' LT	121 188.96	360 087.82
439	1151+08.78"A"	18.14' LT	121 187.62	360 094.55
440	1151+00.78"A"	18.29' LT	121 179.83	360 096.35



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	WEST LEG - STH 167 ROUNDABOUT DETAILS	SHEET	E

NOTES:
OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER
RADII ARE TO THE FLANGE LINE OF CURB & GUTTER

PT. NO.	STATION	OFFSET	NORTHING	EASTING
515	688+69.88	38.01' LT	121 343.46	360 164.23
516	689+10.27"D"	67.45' LT	121 373.74	360 204.02
517	688+91.17"D"	18.18' LT	121 325.80	360 189.81
518	689+29.91"D"	95.00' LT	121 402.50	360 212.55
519	689+36.84"D"	15.31' LT	121 324.36	360 229.73
520	689+60.63"D"	17.38' LT	121 329.49	360 253.05
521	690+07.89"D"	16.00' LT	121 333.32	360 301.00
522	690+70.05"D"	804.00' RT	120 515.93	360 366.30
523	690+70.31"D"	16.00' LT	121 335.92	360 364.59
524	690+84.85"D"	16.00' LT	121 335.96	360 379.42

PT. NO.	STATION	OFFSET	NORTHING	EASTING
525	1153+12.19"E"	20.01' RT	121 430.82	360 125.94
526	1153+04.89"E"	20.11' RT	121 423.88	360 129.34
527	1152+92.98"E"	28.53' RT	121 415.65	360 142.18
528	1152+89.64"E"	28.25' RT	121 412.20	360 143.32
529	1152+91.74"E"	20.26' RT	121 411.23	360 135.07
530	1152+84.33"E"	20.41' RT	121 403.55	360 138.26
531	1152+82.83"E"	27.97' RT	121 404.45	360 145.98
532	1152+87.54"E"	37.82' RT	121 413.35	360 153.17
533	688+90.69"D"	28.28' LT	121 335.77	360 191.42
534	688+90.30"D"	20.76' LT	121 328.46	360 189.64
535	689+00.59"D"	19.94' LT	121 326.49	360 197.40
536	689+02.22"D"	27.45' LT	121 333.89	360 199.19
537	689+05.04"D"	37.19' LT	121 343.51	360 201.53
538	689+23.24"D"	27.97' LT	121 335.16	360 214.61
539	689+43.71"D"	18.41' LT	121 328.33	360 236.14
540	689+51.68"D"	19.11' LT	121 330.05	360 243.95
541	690+86.37"C"	71.77' LT	121 387.74	360 380.45
542	690+93.97"C"	42.97' RT	121 273.01	360 388.33
543	690+91.23"C"	45.63' RT	121 270.35	360 385.59
544	691+70.90"C"	40.01' RT	121 276.16	360 465.25

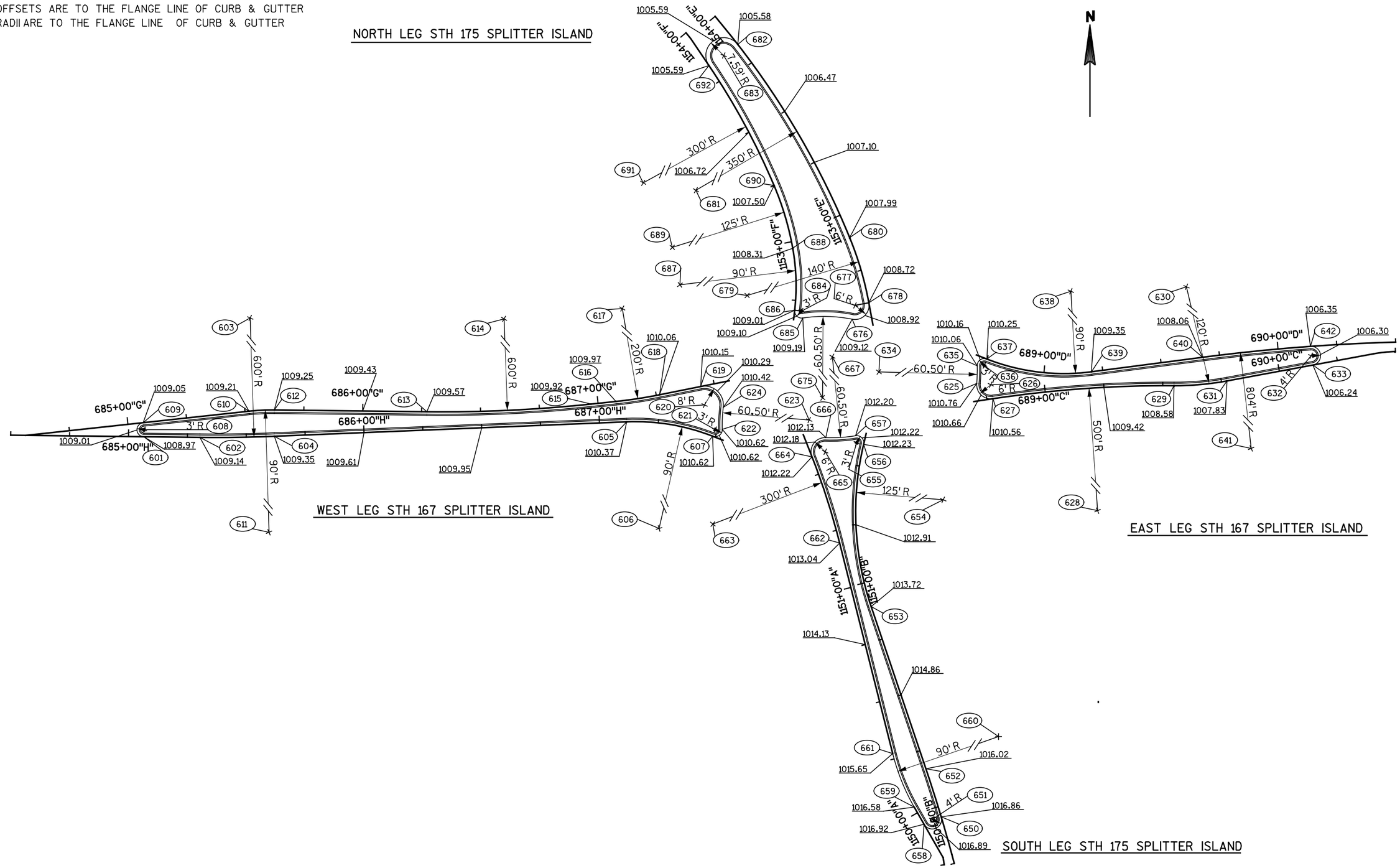
LEGEND

1. CONCRETE CURB & GUTTER 30-INCH TYPE D
2. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
3. CONCRETE CURB & GUTTER 18-INCH TYPE D
4. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
5. CONCRETE CURB & GUTTER 18-INCH REVERSE SLOPED TYPE A
6. CONCRETE ROUNDABOUT TRUCK APRON 8-INCH (COLORED RED)
7. ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
8. COLORED CONCRETE SIDEWALK 5-INCH
9. SALVAGED TOPSOIL, FERTILIZER, SOD
10. SAWING ASPHALT, MATCH EXISTING
11. CONCRETE MEDIAN SLOPED NOSE TYPE 1
12. CONCRETE MEDIAN SLOPED NOSE TYPE 2
13. CURB RAMP TYPE 4B
14. CURB RAMP TYPE 6
15. CURB RAMP TYPE 4A1
16. CONCRETE SIDEWALK 5-INCH
17. COLORED CONCRETE SIDEWALK 7-INCH
18. CONCRETE DRIVEWAY 7-INCH
19. BASE AGGREGATE DENSE 1 1/4-INCH

PT. NO.	STATION	OFFSET	NORTHING	EASTING
501	688+66.40	44.03' RT	121 261.47	360 159.82
502	689+31.00"C"	156.33' RT	121 144.53	360 233.10
503	689+11.22"C"	19.27' RT	121 280.29	360 208.34
504	689+58.43"C"	314.17' RT	120 987.13	360 261.80
505	689+60.36"C"	16.20' RT	121 285.08	360 256.52
506	689+59.36"C"	91.18' RT	121 210.09	360 257.85
507	689+68.68"C"	17.36' RT	121 284.64	360 266.06
508	690+74.06"C"	42.57' RT	121 273.37	360 368.42
509	690+81.20"C"	68.53' RT	121 247.42	360 375.62
510	690+96.89"C"	87.98' RT	121 228.01	360 391.36
511	691+44.71"C"	70.84' RT	121 245.26	360 439.15
512	691+47.01"C"	64.36' RT	121 251.75	360 441.42
513	691+88.68"C"	81.35' RT	121 234.86	360 483.13
514	691+85.86"C"	36.44' RT	121 279.77	360 480.20

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	EAST LEG - STH 167 ROUNDABOUT DETAILS	SHEET 43 E

NOTES:
OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER
RADII ARE TO THE FLANGE LINE OF CURB & GUTTER



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	ISLAND DETAILS - STH 167 INTERSECTION	SHEET 44	E

NOTES:
OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER
RADII ARE TO THE FLANGE LINE OF CURB & GUTTER

PT. NO.	STATION	OFFSET	NORTHING	EASTING
601	685+06.55"H"	0'	121 302.48	359 800.28
602	685+30.30"H"	0'	121 302.21	359 824.04
603	685+30.30"H"	600' LT	121 902.15	359 830.97
604	685+61.91"H"	0'	121 302.68	359 855.64
605	687+11.61"H"	0'	121 308.83	360 005.21
606	687+28.15"H"	90' RT	121 218.91	360 008.91
607	687+48.87"H"	0'	121 302.72	360 041.70
608	685+06.55"H"	3' LT	121 305.48	359 800.32
608	685+06.54"G"	3' RT	121 305.48	359 800.32
609	685+06.54"G"	0'	121 308.46	359 799.99
610	685+51.70"G"	0'	121 313.33	359 844.88
611	685+56.51"G"	90' RT	121 313.85	359 854.58
612	685+62.46"G"	0'	121 313.84	359 855.62
613	686+27.22"G"	0'	121 313.10	359 920.39
614	686+27.22"G"	600' LT	121 912.97	359 927.32
615	686+97.07"G"	0'	121 316.35	359 990.12
616	687+07.65"G"	0'	121 317.46	360 000.64
617	687+17.68"G"	200' LT	121 516.26	359 979.71
618	687+26.36"G"	0'	121 320.29	360 019.14
619	687+44.28"G"	0'	121 323.82	360 036.70
620	687+44.28"G"	8' RT	121 315.98	360 038.27
620	687+41.75"H"	11.41' LT	121 315.98	360 038.27
621	687+48.87"H"	3' LT	121 305.52	360 042.79
621	687+46.65"G"	19.15' RT	121 305.52	360 042.79
622	687+51.63"H"	4.18' LT	121 305.61	360 045.79
623	---	---	121 307.58	360 106.26
624	687+51.87"G"	10.53' RT	121 315.00	360 046.21

WEST LEG STH 167 SPLITTER ISLAND

PT. NO.	STATION	OFFSET	NORTHING	EASTING
625	688+71.78"C"	7.42' LT	121 302.11	360 166.51
626	688+77.58"C"	6' LT	121 301.56	360 172.49
626	688+79.99"D"	9.7' RT	121 301.56	360 172.49
627	688+77.61"C"	0'	121 295.63	360 173.38
628	689+54.72"C"	500' RT	120 801.17	360 247.60
629	689+54.78"C"	0'	121 301.16	360 250.27
630	689+62.49"C"	120' LT	121 421.16	360 250.91
631	689+77.34"C"	0'	121 303.16	360 272.71
632	690+14.48"C"	4' LT	121 313.83	360 308.49
632	690+13.84"D"	4' RT	121 313.83	360 308.49
633	690+14.47"D"	0'	121 309.90	360 309.22

EAST LEG STH 167 SPLITTER ISLAND

PT. NO.	STATION	OFFSET	NORTHING	EASTING
634	---	---	121 307.58	360 106.26
635	688+72.25"D"	0'	121 309.57	360 166.73
636	688+75.00"D"	3' RT	121 309.67	360 169.72
636	688+76.12"C"	14.43' RT	121 309.67	360 169.72
637	688+75.00"D"	0'	121 312.46	360 170.82
638	688+86.71"D"	90' LT	121 396.28	360 203.60
639	689+20.22"D"	0'	121 307.04	360 215.23
640	689+67.75"D"	0'	121 313.18	360 262.38
641	689+67.75"D"	804' RT	121 515.93	360 366.30
642	690+13.85"D"	0'	121 317.82	360 308.20

EAST LEG STH 167 SPLITTER ISLAND

PT. NO.	STATION	OFFSET	NORTHING	EASTING
650	1149+95.52"B"	0'	121 086.23	360 152.64
651	1149+95.52"B"	4' LT	121 085.09	360 148.81
651	1149+94.40"A"	4' RT	121 085.09	360 148.81
652	1150+16.91B"	0'	121 106.61	360 146.16
653	1150+89.57"B"	0'	121 175.45	360 122.91
654	1151+30.29"B"	125' RT	121 215.45	360 241.33
655	1151+59.38"B"	3' LT	121 244.96	360 116.78
655	1151+56.52"A"	19.87' RT	121 244.96	360 116.78
656	1151+59.37"B"	0'	121 244.27	360 119.70
657	1151+62.13"B"	4.16' LT	121 247.92	360 116.28
658	1149+94.40"A"	0'	121 083.10	360 145.34
659	1150+02.71"A"	0'	121 090.30	360 141.21
660	1150+02.76"A"	90' RT	121 135.04	360 219.30
661	1150+27.32"A"	0'	121 113.06	360 132.03
662	1151+19.48"A"	0'	121 202.43	360 109.52
663	1151+19.48"A"	300' LT	121 129.15	359 818.61
664	1151+57.86"A"	0'	121 238.95	360 097.79
665	1151+57.86"A"	6' RT	121 241.15	360 103.37
665	1151+53.31"B"	15.33' LT	121 241.15	360 103.37
666	1151+63.35"A"	8.43' RT	121 247.14	360 103.63
667	---	---	121 307.58	360 106.26

SOUTH LEG STH 175 SPLITTER ISLAND

PT. NO.	STATION	OFFSET	NORTHING	EASTING
675	---	---	121 307.58	360 106.26
676	1152+55.24"E"	8.24' LT	121 366.89	360 118.22
677	1152+60.81"E"	6' LT	121 372.77	360 119.40
677	1152+75.76"F"	25.17' RT	121 372.77	360 119.40
678	1152+60.81"E"	0'	121 373.87	360 125.30
679	---	140' LT	121 348.36	359 987.65
680	1152+89.68"E"	0'	121 401.51	360 117.16
681	---	350' LT	121 268.62	359 793.37
682	1153+84.67"E"	0'	121 483.45	360 069.69
683	1153+84.67"E"	7.59' LT	121 478.79	360 063.70
683	1153+83.04"F"	7.59' RT	121 478.79	360 063.70
684	1152+70.80"F"	3' RT	121 370.38	360 096.81
684	1152+62.57"E"	28.66' LT	121 370.38	360 096.81
685	1152+67.89"F"	3.78' RT	121 367.41	360 097.25
686	1152+70.79"F"	0'	121 370.72	360 093.83
687	---	90' LT	121 381.07	360 004.42
688	1152+97.21"F"	0'	121 397.03	360 092.99
689	---	125' LT	121 374.86	359 969.98
690	1153+25.05"F"	0'	121 423.66	360 085.06
691	---	300' LT	121 306.53	359 808.87
692	1153+83.04"F"	0'	121 474.54	360 057.41

NORTH LEG STH 175 SPLITTER ISLAND

LEGEND

- XXXXX SAWCUT, MATCH EXISTING
- REMOVE TREE
- CONTAMINATED SOIL
- (5) CONCRETE DRIVEWAY 7-INCH
- (6) BASE AGGREGATE DENSE 1 1/4-INCH
- (7) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

NOTES

SEE "HUBERTUS/FREISTADT INTERSECTION DETAILS" SHEET FOR DETAILS NOT COVERED ON THIS SHEET.

ALSO SEE "HUBERTUS/FRIESTADT RD TREE PLANTING" FOR MORE DETAILS.

OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER.

RADII ARE TO THE FLANGE LINE OF CURB & GUTTER.

BEGIN PROJECT 3360-09-70
STA 1086+00.00
Y= 114 900.97
X= 361 711.78

STA 1088+77.53
75.99' LT
Y=115143.2933
X=361556.6198

STA 1087+50.96
57.00' LT
Y=115028.1201
X=361612.4381

CONCRETE SIDEWALK 5"
CURB RAMP TYPE 4B

BEECHWOOD INDUSTRIAL COURT

+91.00
64.06'

+17.53
75.66'

60' R

40' R

+51.08
17.00'

+25.86
15.00'

+77.53
16.00'

BM #1

CHARTER COMMUNICATIONS

CONCRETE SIDEWALK 5"
CURB RAMP TYPE 4B

STA. 1089+77, LT.
CONSTRUCT C.E.

WE ENERGIES GAS

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

SHARED-USE PATH
ASPHALTIC SURFACE

STA. 1093+21, LT.
CONSTRUCT C.E.

STA. 1094+04, LT.
CONSTRUCT C.E.

R/L STH 175

SLOPE INTERCEPTS

STA. 1096+75 - STA 1097+75, LT
APPROX. 2023 TON TO BE REMOVED
PER ITEM "EXCAVATION, HAULING
AND DISPOSAL OF PETROLEUM
CONTAMINATED SOIL".

CONCRETE SIDEWALK 5"
CURB RAMP TYPE 1

STA. 1097+10 - STA. 1097+35, LT
REMOVE EXISTING GUARDRAIL

AT&T WISCONSIN

HUBERTUS RD

"HU" 95+00.00

AT&T WISCONSIN

WE ENERGIES ELECTRIC

STA. 97+00"HU"
BEGIN CONSTRUCTION

R/L "HU"

CONCRETE SIDEWALK 5"
CURB RAMP TYPE 4B

SHARED-USE PATH
ASPHALTIC SURFACE

WE ENERGIES GAS

AT&T WISCONSIN

BM #2

STA 1100+00

1085+00

1090+00

1095+00

1100

PT 1085+67.77

+15.21
17.24'

+8.27
16.00'

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

AT&T WISCONSIN

WE ENERGIES ELECTRIC

SLOPE INTERCEPTS

STA. 1093+24, RT
REMOVE EXISTING ISLAND
CONSTRUCT C.E. RT.

STA. 101+33"HU"
REMOVE EXISTING
18" STORM SEWER PIPE

STA. 1096+05 - STA. 1097+06, RT
REMOVE EXISTING GUARDRAIL

STA. 1097+43.79 =
STA. 100+00.00 "HU"

STA. 1096+70 , RT
MOVE OVERHEAD
SIGN SUPPORT
REMOVE CONCRETE BASE

STA. 101+00"HU", 33' RT
REMOVE EXISTING RIP RAP
PER ITEM "EXCAVATION STONE
PILES AND STONE FENCES"

STA. 102+31"HU", RT
CONSTRUCT C.E.

"HU" 100+00.00

STA. 101+32"HU", LT
REMOVE EXISTING
18" X 34' CMCP
CONSTRUCT C.E.

STA. 101+53"HU", LT
REMOVE EXISTING INLET

STA. 1099+05, RT
REMOVE EXISTING 18" X 61' CMCP
CONSTRUCT C.E. & COMMERCIAL LOT
TO NEW GRADE FROM R/W TO SI

STA. 101+60"HU", LT
REMOVE FIRST SECTION
OF EXISTING 18" CONCRETE
STORM SEWER PIPE
SEAL REMAINING PIPE

FILLER CAPS

MATCH LINE

AWSMS RETENTION POND
SEE "AWSMS RETENTION POND-
LAYOUT" SHEET

AT&T WISCONSIN

WE ENERGIES ELECTRIC

SLOPE INTERCEPTS
STA. 103+00"HU", LT
REMOVE EXISTING
15" X 30' CMCP
CONSTRUCT F.E.
1-15"X24' CPCS
2-AECPS

WE ENERGIES GAS

STA. 103+55"HU"
END CONSTRUCTION

FREISTADT RD

"HU" 105+00.00

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	1089+11	SE CORNER SIDEWALK	113.8' LT	994.70
2	1098+85	CAPPED REBAR	28.1' LT	989.56

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN DETAIL - STH 175	SHEET E

FILE NAME : N:\PDS\Projects\33600900\DDE\Graphical Information\Plan Sheets\021201_pd.dgn PLOT DATE : 29-JUL-2015 11:24 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 100:1

2

LEGEND

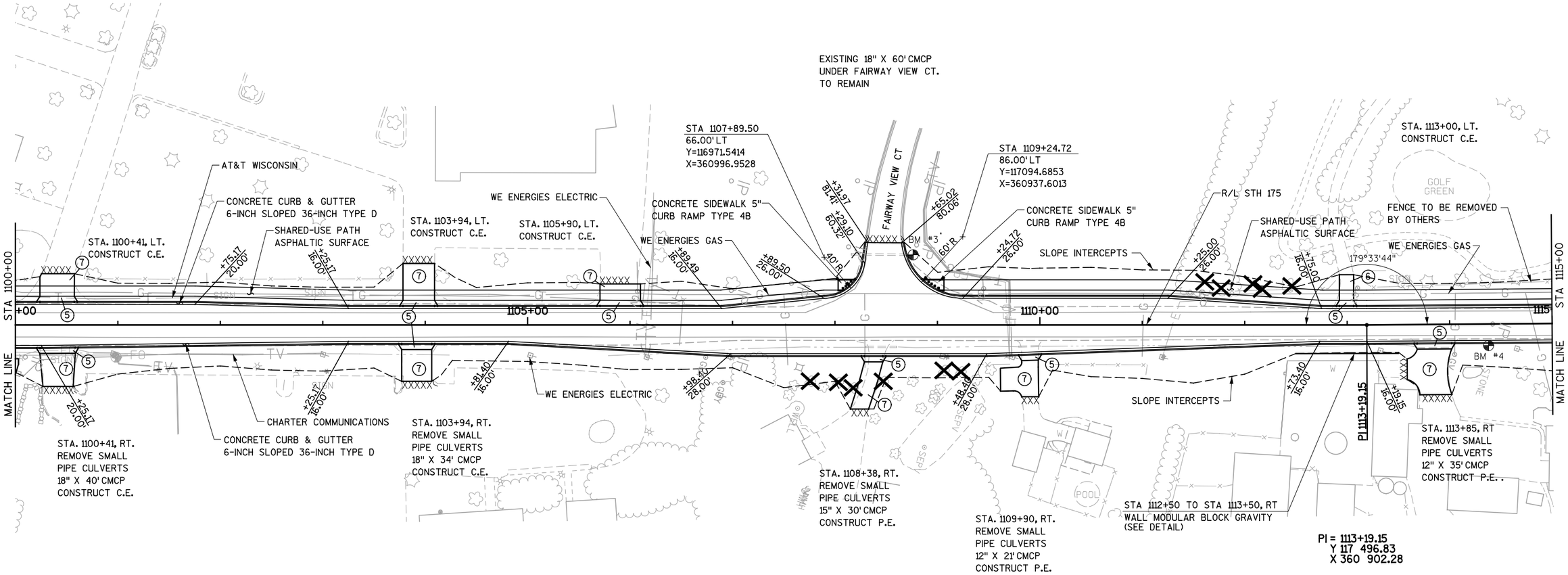
- XXXXX SAWCUT, MATCH EXISTING
- ✕ REMOVE TREE
- (5) CONCRETE DRIVEWAY 7-INCH
- (6) BASE AGGREAGTE DENSE 1 1/4-INCH
- (7) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRACES

NOTES

OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER.

RADII ARE TO THE FLANGE LINE OF CURB & GUTTER.

REMOVE ONLY MARKED TREES FROM STA. 1112+50 TO 1118+50 ON THE LEFT. ALL OTHER TREES SHALL REMAIN AND WORKED AROUND.



BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
2	1098+85	CAPPED REBAR	113.8' LT	994.70
3	1108+76	N END TOP OF 18" CP	68.5' LT	1005.78
4	1114+38	CAPPED REBAR	21.0' RT	1033.50

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN DETAIL - STH 175	SHEET 47	E

LEGEND

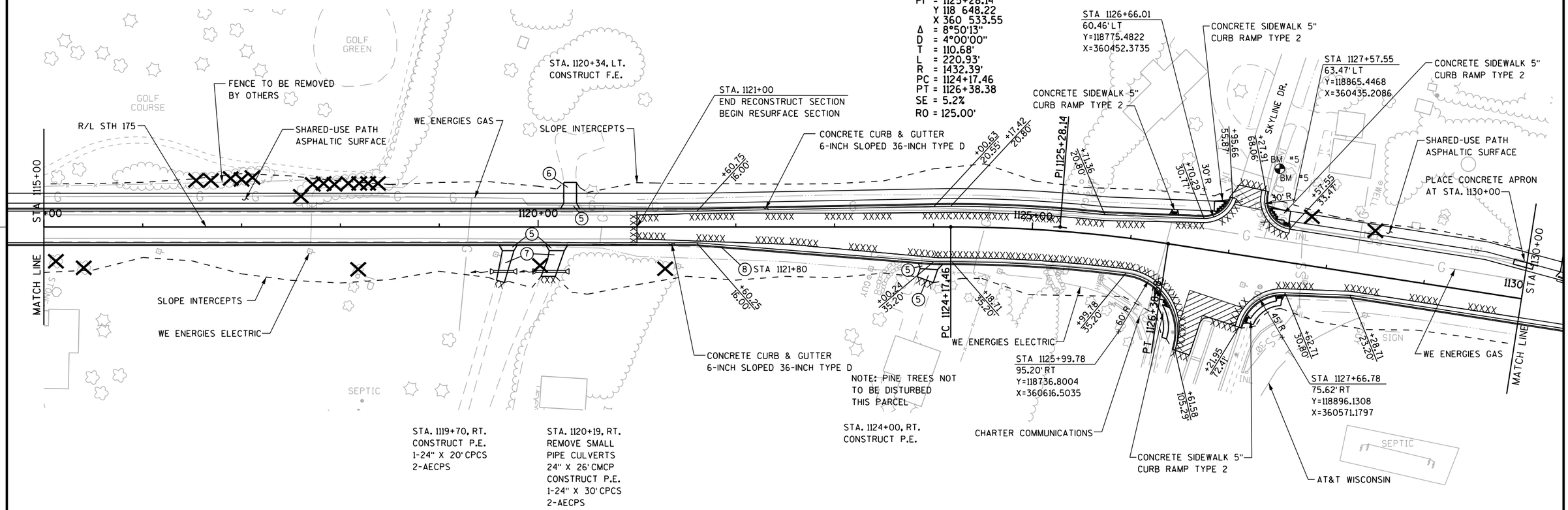
- XXXXX SAWCUT, MATCH EXISTING
- REMOVE TREE
- ASPHALTIC SURFACE BUTT JOINTS
- (5) CONCRETE DRIVEWAY 7-INCH
- (6) BASE AGGREGATE DENSE 1 1/4-INCH
- (7) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- (8) DRIVEWAY OPENING

NOTES

OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER.

RADII ARE TO THE FLANGE LINE OF CURB & GUTTER.

REMOVE ONLY MARKED TREES FROM STA. 1112+50 TO 1118+50 ON THE LEFT. ALL OTHER TREES SHALL REMAIN AND WORKED AROUND.



BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
4	1114+38	CAPPED REBAR	21.0' RT	1033.50
5	1127+38	CENTER SURFACE INLET	92.3' LT	1038.78
6	1139+59	CAPPED REBAR	18.4' LT	1076.09

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN DETAIL - STH 175	SHEET E

2

N

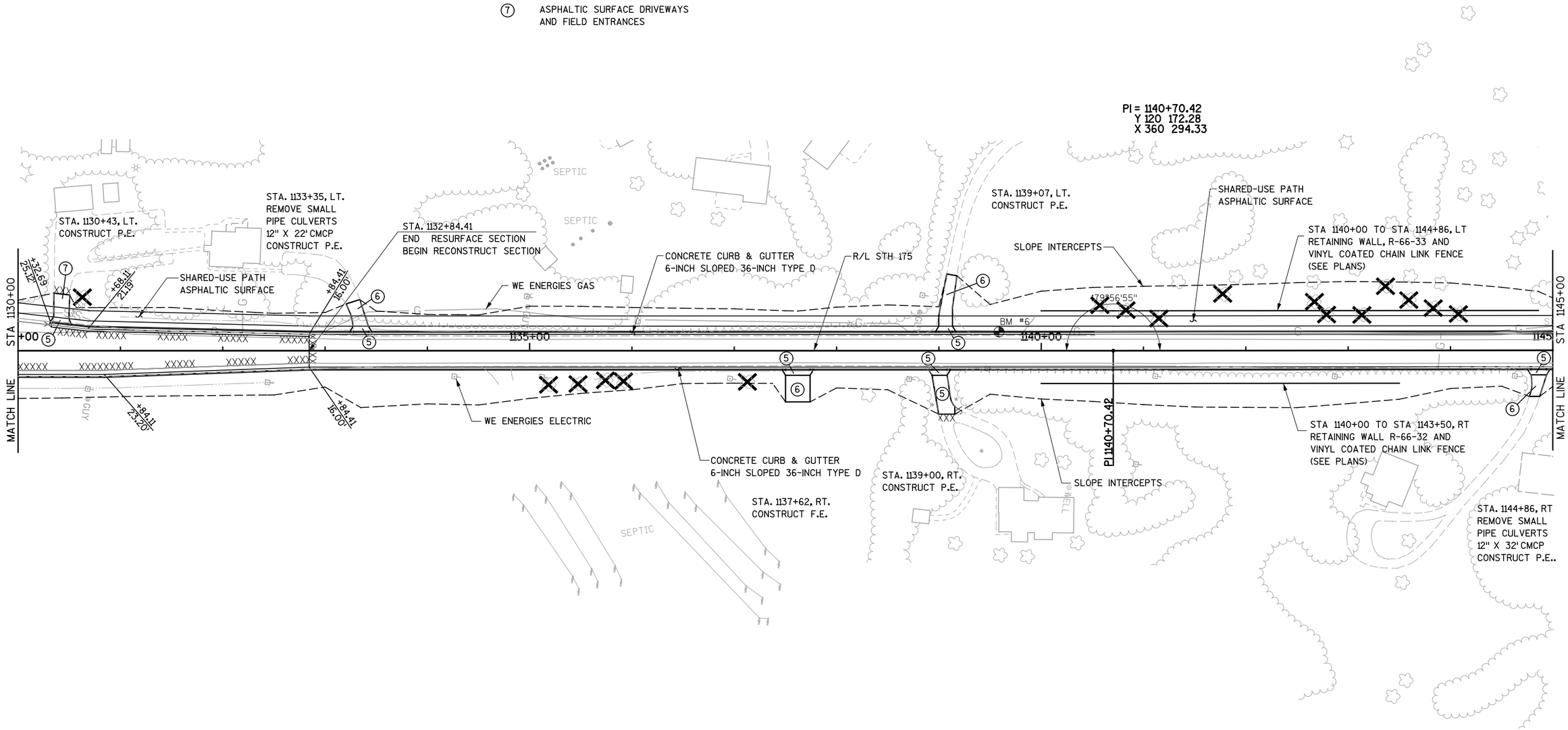
LEGEND

- XXXXX — SAWCUT, MATCH EXISTING
- X — REMOVE TREE
- (5) — CONCRETE DRIVEWAY 7-INCH
- (6) — BASE AGGREGATE DENSE 1 1/4-INCH
- (7) — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

NOTES

OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER.

RADII ARE TO THE FLANGE LINE OF CURB & GUTTER.



BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
5	1127+38	CENTER SURFACE INLET	92.3' LT	1038.78
6	1139+59	CAPPED REBAR	18.4' LT	1076.09
7	1150"A"+69	CHIS SQR ON CONC BETWEEN DOORS	112.5' LT	1017.88

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN DETAIL - STH 175	SHEET 49	E

2

N

NOTES

SEE "SOUTH LEG - STH 167 ROUNDABOUT DETAILS" SHEET FOR DETAILS NOT COVERED ON THIS SHEET.

OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER.

RADII ARE TO THE FLANGE LINE OF CURB & GUTTER.

LEGEND

- XXXXX SAWCUT, MATCH EXISTING
- ✕ REMOVE TREE
- (5) CONCRETE DRIVEWAY 7-INCH
- (6) BASE AGGREGATE DENSE 1 1/4-INCH
- (7) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

BLEACHERS
PLAYGROUND
ATHLETIC FIELD
LOGGER'S PARK POND
RUINS
FILLER
SEPTIC
UNDERGROUND WATER VAULT (16'x14'x10')
WELL
SIGN
INL
OHL
G
T
W
S

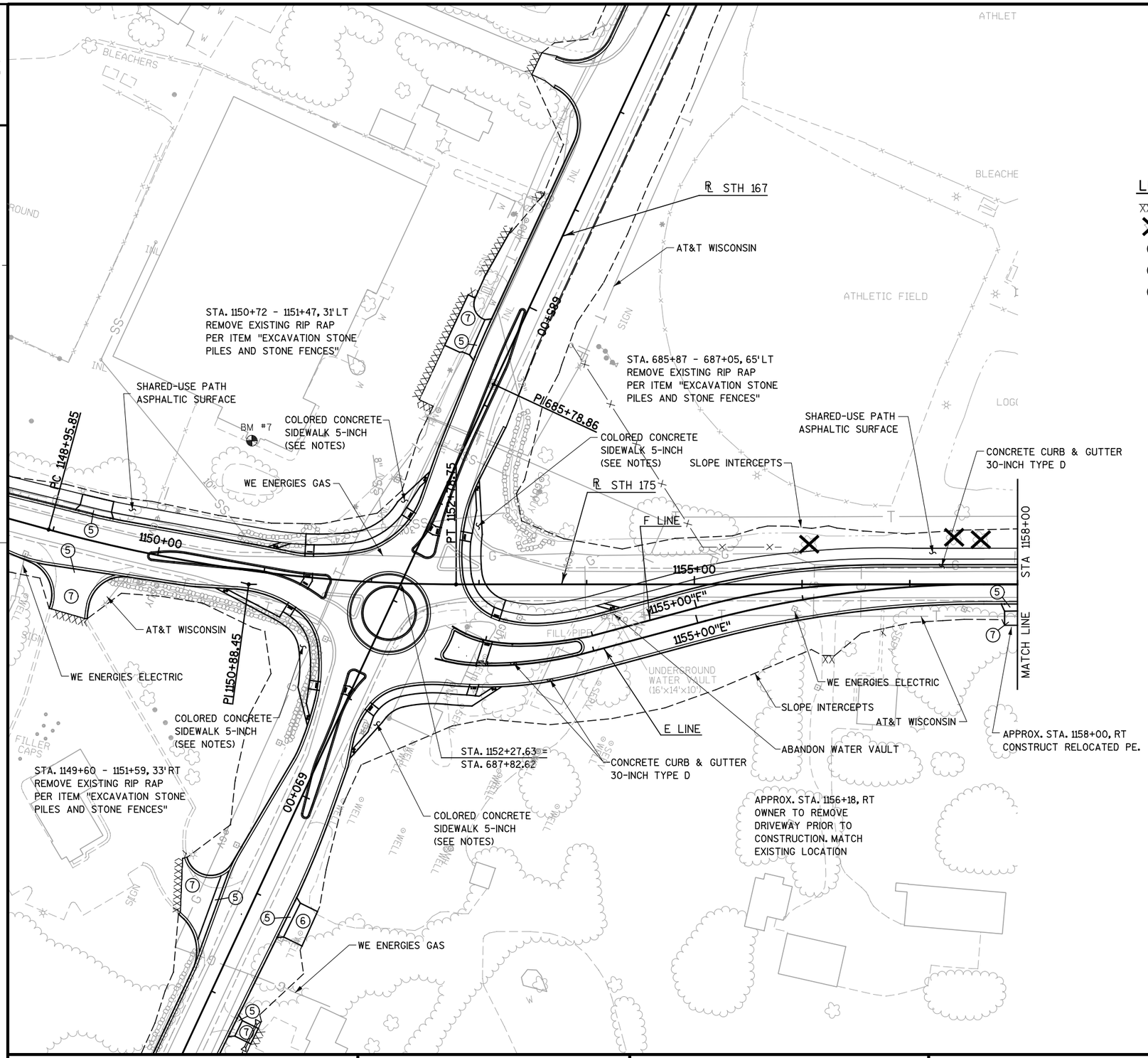
℄ STH 167
REMOVE EXISTING DRIVEWAY
STH 167
1600+00
STA. 685+87 - 687+05, 65'LT
REMOVE EXISTING RIP RAP
PER ITEM "EXCAVATION STONE
PILES AND STONE FENCES"
AT&T WISCONSIN
WE ENERGIES GAS
PI 685+78.86
COLORED CONCRETE
SIDEWALK 5-INCH
(SEE NOTES)
SHARED-USE PATH
ASPHALTIC SURFACE
1155+00
PT 1151+78.75
WE ENERGIES ELECTRIC
CONCRETE CURB & GUTTER
30-INCH TYPE D
STA. 1150+72 - 1151+47, 31'LT
REMOVE EXISTING RIP RAP
PER ITEM "EXCAVATION STONE
PILES AND STONE FENCES"
STA. 1149+33, LT.
CONSTRUCT C.E.
COLORED CONCRETE
SIDEWALK 5-INCH
(SEE NOTES)
AT&T WISCONSIN
CONCRETE CURB & GUTTER
30-INCH TYPE D
BM #7
CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D
SLOPE INTERCEPTS
WE ENERGIES GAS
SHARED-USE PATH
ASPHALTIC SURFACE
℄ STH 175
PC 1148+95.85
A LINE
1150+00
STA. 1145+00
MATCH LINE
SLOPE INTERCEPTS
CONCRETE CURB & GUTTER
30-INCH TYPE D
B LINE
CONCRETE CURB & GUTTER
18-INCH TYPE D
PI 1150+88.45
1690+00
STA. 1152+27.63 =
STA. 687+82.62
STH 175 ℄
PI = 1150+88.45
Y 121 177.85
X 360 135.57
Δ = -15°18'57"
D = 4°00'00"
T = 192.60'
L = 382.90'
R = 1432.39
PC = 1148+95.85
PT = 1152+78.75
SE = N/A
RO = N/A
CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D
WE ENERGIES ELECTRIC
STA. 1149+33, RT.
REMOVING SMALL
PIPE CULVERTS
18" X 64' CMCP
CONSTRUCT C.E.
COLORED CONCRETE
SIDEWALK 5-INCH
(SEE NOTES)
STA. 1147+42, RT.
REMOVING SMALL
PIPE CULVERTS
15"X28' CMCP
CONSTRUCT P.E.
1-15"X30' CPCS
2-AECPS
STA. 1148+00, RT.
REMOVING SMALL
PIPE CULVERTS
15"X29' CMCP
CONSTRUCT P.E.
1-15"X32' CPCS
2-AECPS
STA. 1151+42 - STA. 1151+71, RT
REMOVE EXISTING CURB & GUTTER
STA. 1149+60 - 1151+59, 33'RT
REMOVE EXISTING RIP RAP
PER ITEM "EXCAVATION STONE
PILES AND STONE FENCES"
WE ENERGIES GAS
AT&T WISCONSIN
STH 167

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
6	1139+59	CAPPED REBAR	18.4'LT	1076.09
7	1150"A"+69	CHIS SQR ON CONC BETWEEN DOORS	112.5'LT	1017.88
13	684+16	NW COR. CONCRETE PAD	52.5'RT	1010.89
14	700+72	SW COR. CONC. RR PAD	23.5'RT	962.27

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN DETAIL - STH 175	SHEET E

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LEGEND

XXXXX	SAWCUT, MATCH EXISTING
X	REMOVE TREE
(5)	CONCRETE DRIVEWAY 7-INCH
(6)	BASE AGGREGATE DENSE 1 1/4-INCH
(7)	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

NOTES

SEE "NORTH LEG - STH 167 ROUNDABOUT DETAILS" SHEET FOR DETAILS NOT COVERED ON THIS SHEET.

ALSO SEE "STH 175/167 ROUNDABOUT LANDSCAPE PLAN" SHEET FOR MORE DETAILS.

OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER.

RADII ARE TO THE FLANGE LINE OF CURB & GUTTER.

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
6	1139+59	CAPPED REBAR	18.4'LT	1076.09
7	1150"A"+69	CHIS SQR ON CONC BETWEEN DOORS	112.5'LT	1017.88
13	684+16	NW COR. CONCRETE PAD	52.5'RT	1010.89
14	700+72	SW COR. CONC. RR PAD	23.5'RT	962.27

LEGEND

- XXXXX SAWCUT, MATCH EXISTING
- (2) CURB RAMP TYPE 2
- (4A) CURB RAMP TYPE 4A
- REMOVE TREE
- (S) SALVAGED TOPSOIL, FERTILIZER, SOD
- CONTAMINATED SOIL
- (5) CONCRETE DRIVEWAY 7-INCH
- (6) BASE AGGREGATE DENSE 1 1/4-INCH
- (7) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

NOTES

OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER.

RADII ARE TO THE FLANGE LINE OF CURB & GUTTER.

PI = 1166+73.72
Y 122 624.91
X 359 482.57
Δ = 3°55'28"
D = 2°00'00"
T = 98.15'
L = 196.23'
R = 2864.79'
PC = 1165+75.57
PT = 1167+71.80
SE = 2.1%
RO = 41.00'

ATHLETIC FIELD
BLEACHERS
GER'S PARK POND
SEPTIC
SIGN
POOL
RICHFIELD SERVICE
ELM
UNDERGROUND WATER VAULT (30'x12'x10')
UNDERGROUND WATER VAULT (14' DIA. X 11.7')

STA. 1159+41, LT.
CONSTRUCT C.E.

AT&T WISCONSIN

SHARED-USE PATH
ASPHALTIC SURFACE

SLOPE INTERCEPTS

CONCRETE CURB & GUTTER
30-INCH TYPE D

STA. 1165+18, LT.
CONSTRUCT C.E.

PI 1166+73.72

R/L STH 175

STA. 1169+37.90, LT
END SHARED-USE PATH
BEGIN CONCRETE SIDEWALK
5-INCH

STA. 1170+50, LT.
CONSTRUCT P.E.

CONCRETE SIDEWALK 5"
CURB RAMP TYPE 2

AT&T WISCONSIN

1160+00
1165+00
1170+00

STA 1158+00
STA 1173+00
MATCH LINE
MATCH LINE

WE ENERGIES GAS

STA. 1159+28, RT.
CONSTRUCT P.E.

WE ENERGIES ELECTRIC

STA. 1158+10, RT
EXACT LOCATION OF MOVED
DRIVEWAY TO BE DETERMINED BY
ENGINEER AND PROPERTY OWNER

STA. 1161+10, RT.
CONSTRUCT P.E.

STA. 1161+77, RT.
CONSTRUCT P.E.

AT&T WISCONSIN

SLOPE INTERCEPTS

STA. 1163+21, RT
CONSTRUCT P.E.

STA. 1164+29, RT.
CONSTRUCT C.E.

PC 1165+75.57

STA. 1166+86.31
36.00' RT
Y=122650.7691
X=359512.7152

CONSTRUCT C.E.

CONCRETE CURB & GUTTER
30-INCH TYPE D

STA. 1166+41, RT.
CONSTRUCT P.E.

BM #8

PT 1167+71.80

STA 1168+18.74
36.00' RT
Y=122867.2093
X=359431.0365

STA 1167+65.47
36.00' RT
Y=122723.5268
X=359484.3740

STA. 1166+50, RT
BEGIN CONCRETE SIDEWALK 5-INCH

STA. 1168+50, RT.
CONSTRUCT C.E.

STA. 1168+77, RT.
CONSTRUCT P.E.

STA 1169+80.26
36.00' RT
Y=122924.8846
X=359409.6294

±83.68
17.00'

WE ENERGIES ELECTRIC
CONCRETE CURB & GUTTER
30-INCH TYPE D

STA. 1170+42, RT.
CONSTRUCT P.E.

STA. 1172+14, RT.
CONSTRUCT C.E.

APPROX. 311 TON TO BE REMOVED
PER ITEM EXCAVATION, HAULING,
AND DISPOSAL OF PETROLEUM
CONTAMINATED SOIL

20' R

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
7	1150"A"+69	CHIS SQR ON CONC BETWEEN DOORS	112.5' LT	1017.88
8	1166+98	TOP OF WEST NUT SIGN BASE	52.1' RT	983.30

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN DETAIL - STH 175	SHEET 52	E

2

LEGEND

XXXXX	SAWCUT, MATCH EXISTING
(2)	CURB RAMP TYPE 2
(4A)	CURB RAMP TYPE 4A
(8)	CURB RAMP TYPE 8
X	REMOVE TREE
(5)	CONCRETE DRIVEWAY 7-INCH
(6)	BASE AGGREGATE DENSE 1 1/4-INCH
(7)	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

NOTES

OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER.

RADII ARE TO THE FLANGE LINE OF CURB & GUTTER.

SPECIAL DITCH

4:1 MAX. 5' 4:1 MAX.

SECTION A-A

STA. 1181+88 TO STA. 1182+58, LT
REMOVE FENCE

STA. 1181+88 TO STA. 1182+16, LT
REMOVE MASONRY WALL

STA. 1182+16 TO STA. 1182+58, LT
REMOVE TIMBER WALL

STA. 1181+91 TO STA. 1182+59, LT
CONSTRUCT WALL MODULAR BLOCK GRAVITY

STA. 1175+38 TO STA. 1175+87, LT
REMOVE TIMBER WALL

STA. 1176+12 TO STA. 1176+42, LT
REMOVE FENCE

STA. 1177+82 TO STA. 1178+23, LT
REMOVE FENCE

STA. 1173+78, LT.
CONSTRUCT P.E.

STA. 1174+70, LT.
CONSTRUCT P.E.

STA. 1175+31, LT.
CONSTRUCT P.E.

STA. 1176+02, LT.
CONSTRUCT P.E.

STA. 1176+72, LT.
CONSTRUCT P.E.

STA. 1178+46, LT.
CONSTRUCT C.E.

STA. 1180+24, LT.
CONSTRUCT C.E.

STA. 1180+50, LT
CONSTRUCT P.E.

STA. 1181+84, LT.
CONSTRUCT P.E.

STA. 1182+73, LT.
CONSTRUCT C.E.

STA. 1184+14, LT.
CONSTRUCT P.E.

STA. 1184+75, LT.
CONSTRUCT P.E.

STA. 1186+03, LT.
CONSTRUCT C.E.

STA. 1186+80, LT
REMOVE GUARDRAIL

STA. 1187+75, 16.00' LT
BEGIN CONCRETE CURB AND GUTTER
30-INCH TYPE D

NOTE: SAWCUT 1-FT
IN FRONT OF STEP

SLOPE INTERCEPTS

CONCRETE
SIDEWALK 5"

CONCRETE CURB & GUTTER
30-INCH TYPE D

ABANDON WELL

CONCRETE SIDEWALK 5"

STA. 1182+59, LT
END CONCRETE SIDEWALK 5-INCH

STA. 1186+32.70, LT
END CONCRETE CURB AND GUTTER
30-INCH TYPE D

SOD LAWN

ASPHALTIC FLUME

WE ENERGIES GAS

R/L STH 175

BM #10

STA 1173+00

STA 1188+00

MATCH LINE

1175+00

1180+00

1185+00

PC 1181+98.34

PT 1186+67.84

+23.81 17.00'

+50.00 14.00'

+90.00 16.00'

+96.41 17.00'

+98.34 16.00'

+13.38 17.00'

20' R

32' R

STA 1173+97.63
34.00' RT
Y=123315.5866
X=359262.2478

STA. 1175+18, RT.
CONSTRUCT C.E.

GRADE AROUND WELL

WE ENERGIES ELECTRIC

STA. 1176+09, RT.
CONSTRUCT P.E.

STA. 1176+59, RT.
CONSTRUCT P.E.

CONCRETE SIDEWALK 5"

STA. 1177+77, RT.
CONSTRUCT P.E.

CONCRETE CURB & GUTTER
30-INCH TYPE D

STA. 1180+88, RT.
CONSTRUCT C.E.

STA 1181+08.39
34.00' RT
Y=123980.4813
X=359011.0647

STA 1182+03.44
34.00' RT
Y=124069.4437
X=358977.4527

STA 1173+27.82
34.00' RT
Y=123250.0378
X=359286.8106

P.I 1173+60.00

+12.37 17.00'

+8.37 17.00'

+8.28 17.00'

+22.52 17.00'

+02.49 17.00'

+9.18 17.00'

+43.44 16.00'

P.I 1184+33.43

SLOPE INTERCEPTS

WE ENERGIES ELECTRIC

UNDERGROUND
WATER VAULT
(13.75' DIA. X 13.8')

ABANDON WATER VAULT

STA. 1183+00, RT.
CONSTRUCT C.E.

STA. 1181+30 - STA. 1183+55, RT.
CONSTRUCT COMMERCIAL LOT

BICYCLE BUMP-OUT
HMA PAVEMENT TYPE E-1
(TYP)

STA. 1184+53.80 16.00' RT
END CONCRETE CURB AND GUTTER
30-INCH TYPE D

PI = 1184+33.42
Y 124 272.53
X 358 864.39
Δ = -7°28'49"
D = 1°35'36"
T = 235.08'
L = 469.50'
R = 3596.18'
PC = 1181+98.34
PT = 1186+67.84
SE = R.C.
RO = 39.00'

1186+67.84 BACK =
1186+68.50 AHEAD

EQUATION

STA. 1187+44, RT.
REMOVE EXISTING
24" X 26' CMCP
CONSTRUCT P.E.

STA. 1186+05.94, 16.00' RT
BEGIN CONCRETE CURB AND GUTTER
30-INCH TYPE D

CONSTRUCT NEW RR CROSSING
(BY OTHERS)

RAILROAD STREET

DEPOT STREET

WISCONSIN & SOUTHERN RAILROAD

* REMOVE AND REPLACE
ASPHALTIC SIDEWALK

** REMOVE CURB AND GUTTER
GRADE TO MATCH NEW SIDEWALK

POOL

SEPTIC

W

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
10	1179+45	CHIS SQR ON CONC BASE FLAG POLE	37.7' LT	980.90
11	1185+66	SE COR CONC SCALE	28.0' LT	966.70

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN DETAIL - STH 175	SHEET 53	E

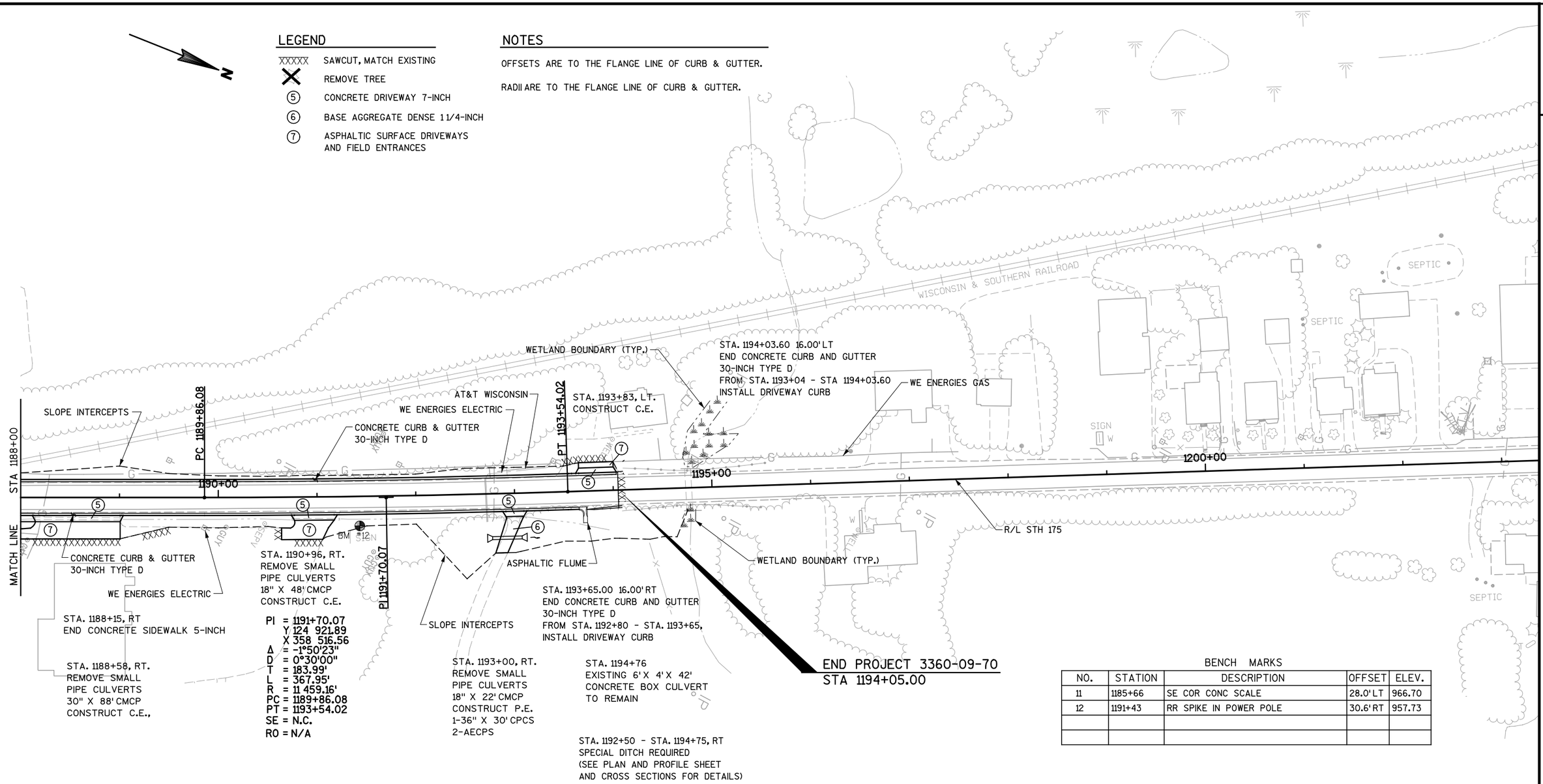
LEGEND

XXXXX	SAWCUT, MATCH EXISTING
X	REMOVE TREE
(5)	CONCRETE DRIVEWAY 7-INCH
(6)	BASE AGGREGATE DENSE 1 1/4-INCH
(7)	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

NOTES

OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER.

RADII ARE TO THE FLANGE LINE OF CURB & GUTTER.



BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
11	1185+66	SE COR CONC SCALE	28.0'LT	966.70
12	1191+43	RR SPIKE IN POWER POLE	30.6'RT	957.73

NOTES

SEE "WEST LEG - STH 167 ROUNDABOUT DETAILS" SHEET FOR DETAILS NOT COVERED ON THIS SHEET.

OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER.

RADII ARE TO THE FLANGE LINE OF CURB & GUTTER.

LEGEND

XXXXX	SAWCUT, MATCH EXISTING
X	REMOVE TREE
(5)	CONCRETE DRIVEWAY 7-INCH
(6)	BASE AGGREGATE DENSE 1 1/4-INCH
(7)	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

N

AT&T WISCONSIN

CONCRETE CURB & GUTTER 30-INCH TYPE D

WE ENERGIES ELECTRIC

AT&T WISCONSIN

CONCRETE CURB & GUTTER 30-INCH TYPE D

℄ STH 175

STA. 685+87 - 687+05, 65'LT
REMOVE EXISTING RIP RAP
PER ITEM " EXCAVATION STONE
PILES AND STONE FENCES"

SHARED-USE PATH
ASPHALTIC SURFACE

AT&T WISCONSIN

COLORED CONCRETE SIDEWALK 5-INCH (SEE NOTES)

SLOPE INTERCEPTS

EXISTING SECTION LINE
MONUMENT TO BE REPLACED

℄ STH 167

PI 685+78.86

G LINE

STA. 1152+27.63 =
STA. 687+82.62

COLORED CONCRETE SIDEWALK 5-INCH (SEE NOTES)

680+00

685+00

690+00

STH 167

STA. 678+00
BEGIN CONSTRUCTION

+25.00
16.00

+79.56
16.00

AT&T WISCONSIN

+41.87"H"
28.00

+10.66"H"
28.00

SLOPE INTERCEPTS

CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

WE ENERGIES ELECTRIC

STA. 678+50, RT.
CONSTRUCT P.E.

STA. 680+71, RT.
REMOVE SMALL
PIPE CULVERTS
18" X 32' CMCP
CONSTRUCT P.E.

BASSWOOD LN

H LINE

BM #13

REMOVE EXISTING DRIVEWAY

CONCRETE CURB & GUTTER 30-INCH TYPE D

STA. 684+05"G", RT.
REMOVE P.E.

STA. 685+42"G", RT.
CONSTRUCT C.E.

STA. 684+70"G", RT.
REMOVE C.E.

REMOVE ASPHALTIC SURFACE AND REPLACE WITH SALVAGED TOPSOIL, SOD AND FERTILIZER

STA. 1150+72 - 1151+47, 31'LT
REMOVE EXISTING RIP RAP
PER ITEM " EXCAVATION STONE
PILES AND STONE FENCES"

COLORED CONCRETE SIDEWALK 5-INCH (SEE NOTES)

WE ENERGIES GAS

SHARED-USE PATH
ASPHALTIC SURFACE

CONCRETE CURB & GUTTER 30-INCH TYPE D

CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D

+31.32

PC 1148+95.85

COLORED CONCRETE SIDEWALK 5-INCH (SEE NOTES)

PI 1150+88.45

STH 175

1150+00

CONCRETE CURB & GUTTER 30-INCH TYPE D

AT&T WISCONSIN

STA. 1149+60 - 1151+59, 33'RT
REMOVE EXISTING RIP RAP
PER ITEM " EXCAVATION STONE
PILES AND STONE FENCES"

WE ENERGIES ELECTRIC

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
7	1150"A"+69	CHIS. SQR. ON CONC. BETWEEN DOORS	112.5'LT	1017.88
13	684+16	NW COR. CONCRETE PAD	52.5'RT	1010.89
14	700+72	SW COR. CONC. RR PAD	23.5'RT	962.27

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN DETAIL - WEST LEG STH 167	SHEET	E

FILE NAME : N:\PDS\Projects\33600900\DDE\Graphical Information\Plan Sheets\021211_pd.dgn PLOT DATE : 29-JUL-2015 10:19 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 100:1

NOTES

SEE "EAST LEG - STH 167 ROUNDABOUT DETAILS" SHEET FOR DETAILS NOT COVERED ON THIS SHEET.

OFFSETS ARE TO THE FLANGE LINE OF CURB & GUTTER.

RADII ARE TO THE FLANGE LINE OF CURB & GUTTER.

LEGEND

- XXXXX — SAWCUT, MATCH EXISTING
- ✕ — REMOVE TREE
- (5) — CONCRETE DRIVEWAY 7-INCH
- (6) — BASE AGGREGATE DENSE 1 1/4-INCH
- (7) — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

N

AT&T WISCONSIN

STA. 1152+27.63 = STA. 687+82.62

CONCRETE SIDEWALK 5-INCH

D LINE

690+00"D"

690+00"C"

690+00

C LINE

CONCRETE SIDEWALK 5-INCH

PI 1150+88.45

STA. 691+28"C", RT.
REMOVE SMALL PIPE CULVERTS
24" X 74' CMCP
CONSTRUCT C.E.

CONCRETE CURB & GUTTER 30-INCH TYPE D

STA. 688+59 - 689+62, 38' RT
REMOVE EXISTING RIP RAP
PER ITEM "EXCAVATION STONE PILES AND STONE FENCES"

1150+00

BC 1148+95.85

WE ENERGIES ELECTRIC

℄ STH 175

STA. 691+08"D", LT.
CONSTRUCT C.E.

WE ENERGIES GAS

STA. 692+19"D", LT.
REMOVE SMALL PIPE CULVERTS
15" X 30' CMCP
CONSTRUCT P.E.
1-18" X 24' CPCS
2-AECPS

CONCRETE CURB & GUTTER 30-INCH TYPE D

℄ STH 167

STA. 691+72 - 692+72, 26' RT
REMOVE EXISTING RIP RAP
PER ITEM "EXCAVATION STONE PILES AND STONE FENCES"

STA. 693+73"D", LT.
REMOVE SMALL PIPE CULVERTS
24" X 28' CMCP
CONSTRUCT C.E.
1-18" X 120' CPCS
2-AECPS

REMOVE ASPHALTIC SURFACE AND REPLACE WITH SALVAGED TOPSOIL, SOD AND FERTILIZER

+15.02
25.39

ASPHALTIC FLUME

AT&T WISCONSIN

695+00"D"

695+00"C"

695+00

+04.66
23.39

STA. 694+42"C", RT.
REMOVE SMALL PIPE CULVERTS
24" X 24' RCCP
CONSTRUCT P.E.

STA. 694+13 - 694+31, 25' RT
REMOVE EXISTING RIP RAP
PER ITEM "EXCAVATION STONE PILES AND STONE FENCES"

WE ENERGIES GAS

STA. 695+05"C", RT.
REMOVE SMALL PIPE CULVERTS
24" X 25' CMCP
CONSTRUCT P.E.

+00.00
23.52

ASPHALTIC FLUME

SLOPE INTERCEPTS

STA. 698+58"D", LT.
EXISTING CULVERT PIPE TO REMAIN

SLOPE INTERCEPTS

WE ENERGIES ELECTRIC

EXISTING 24" RCCP TO REMAIN

WOLF RD

WISCONSIN & SOUTHERN RAILROAD

STA. 700+19.60 - STA. 701+50
REMOVE 2.5" ASPHALTIC SURFACE MILLING
PLACE 2.5" HMA PAVEMENT TYPE E-1

STA. 701+50
END CONSTRUCTION

700+00

700+00"D"

700+00"C"

STH 167

BM #14

STA. 698+72"C", RT.
REMOVE SMALL PIPE CULVERTS
24" X 132' CMCP
CONSTRUCT C.E.
1-24" X 132' CPCS
WITH 2-AECPS

SEE "RR CROSSING - STH 167 PLAN DETAIL"
RR CROSSING TO REMAIN AS IS

BM #7

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
7	1150"A"+69	CHIS. SQR. ON CONC. BETWEEN DOORS	112.5' LT	1017.88
13	684+16	NW COR. CONCRETE PAD	52.5' RT	1010.89
14	700+72	SW COR. CONC. RR PAD	23.5' RT	962.27

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN DETAIL - EAST LEG STH 167	SHEET 56 E

2

N

LEGEND

- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- RIP RAP MEDIUM WITH GEOTEXTILE FABRIC TYPE HR
- INLET PROTECTION, TYPE A & C, UNLESS CALLED OUT OTHERWISE ON PLAN
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- CONTAMINATED SOIL

BEGIN PROJECT 3360-09-70
STA 1086+00.00
Y= 114 900.97
X= 361 711.78

PT 1085+67.77

AWSMS RETENTION POND
SEE "AWSMS RETENTION POND-LAYOUT" SHEET

BEECHWOOD INDUSTRIAL COURT

BM #1

R/L STH 175

HAZARDOUS MATERIAL AREA
(SEE "PLAN DETAIL" SHEET FOR INFO)

SLOPE INTERCEPTS

SLOPE INTERCEPTS

STA. 97+00"HU"
BEGIN CONSTRUCTION

HUBERTUS ROAD

STA. 1097+43.79 =
STA. 100+00.00 "HU"

FREISTAD ROAD

STA. 103+55"HU"
END CONSTRUCTION

BM #2

FILLER CAPS

CANOPY

SEPTIC

MATCH LINE STA 1100+00

1085+00 1090+00 1095+00 1100

95+00"HU" 100+00"HU" 105+

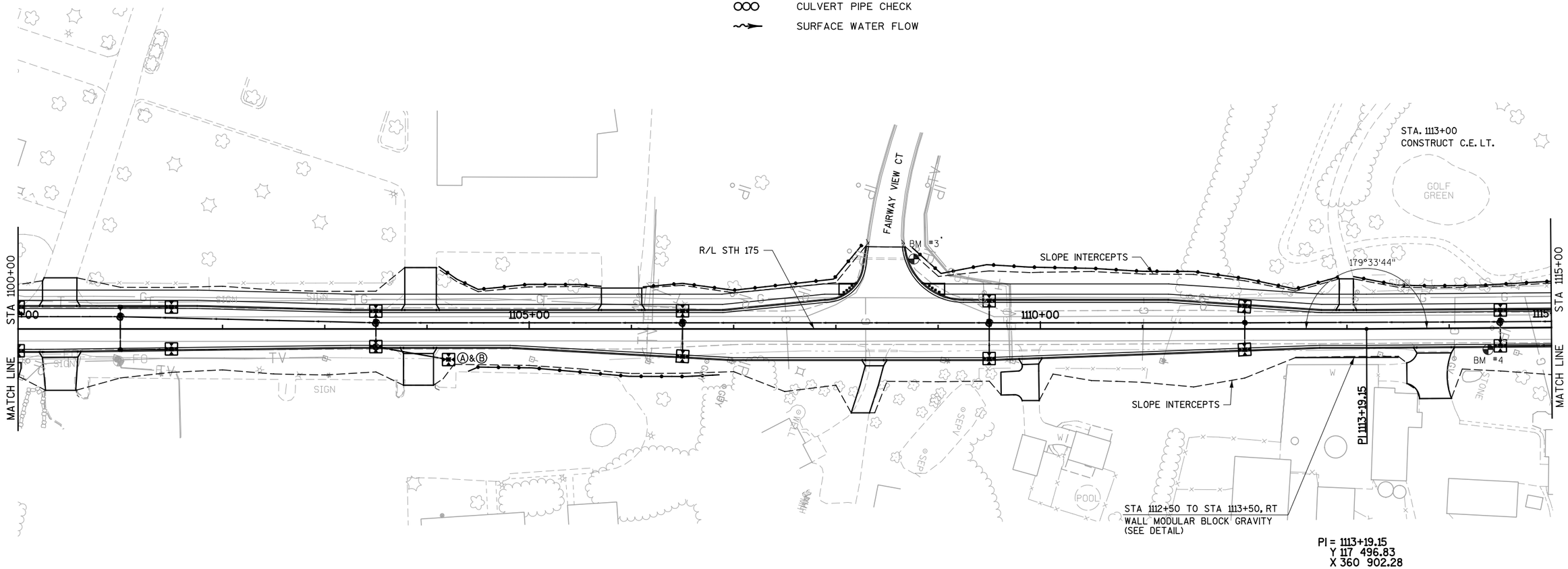
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	EROSION CONTROL - STH 175	SHEET	E

2

2

LEGEND

- EROSION MAT URBAN CLASS I, TYPE A OR B
- SILT FENCE
- RIP RAP MEDIUM WITH GEOTEXTILE FABRIC TYPE HR
- INLET PROTECTION, TYPE A & C, UNLESS CALLED OUT OTHERWISE ON PLAN
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

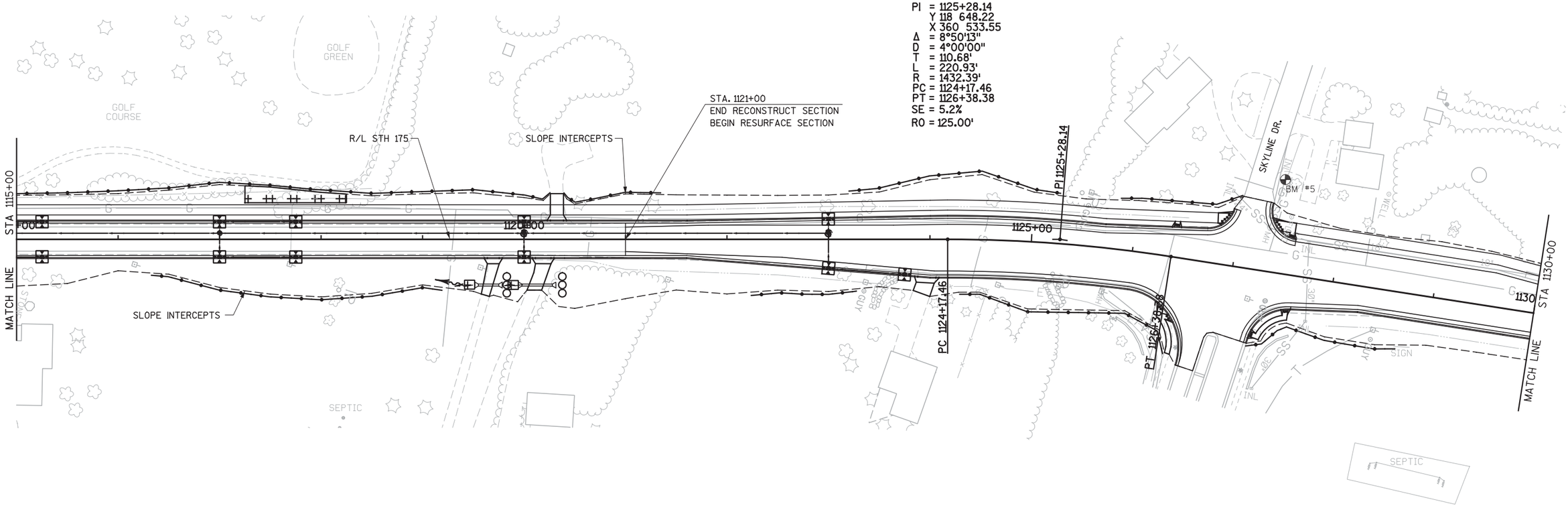


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	EROSION CONTROL - STH 175	SHEET 58	E

LEGEND

- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- RIP RAP MEDIUM WITH GEOTEXTILE FABRIC TYPE HR
- INLET PROTECTION, TYPE A & C, UNLESS CALLED OUT OTHERWISE ON PLAN
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PI = 1125+28.14
Y 118 648.22
X 360 533.55
Δ = 8°50'13"
D = 4°00'00"
T = 110.68'
L = 220.93'
R = 1432.39'
PC = 1124+17.46
PT = 1126+38.38
SE = 5.2%
RO = 125.00'



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	EROSION CONTROL - STH 175	SHEET 59	E

FILE NAME : W:\x-Projects\RD\7140\project 1 dgn\022003_ec.dgn PLOT DATE : 12/9/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 100.0000 sf / in.

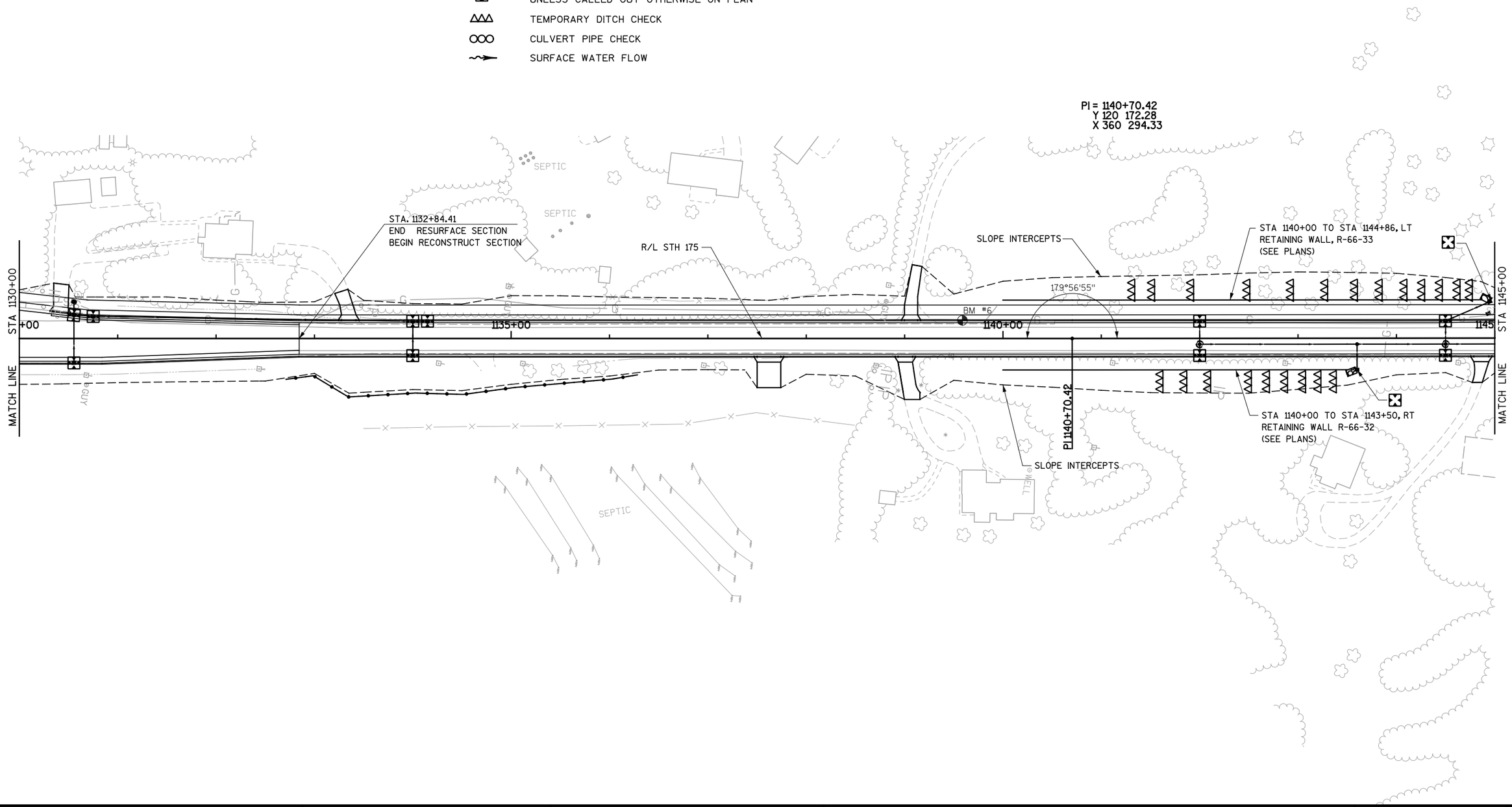
2

2

N

LEGEND

- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- RIP RAP MEDIUM WITH GEOTEXTILE FABRIC TYPE HR
- INLET PROTECTION, TYPE A & C, UNLESS CALLED OUT OTHERWISE ON PLAN
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	EROSION CONTROL - STH 175	SHEET 60	E

FILE NAME : W:\x-Projects\RD\7140\project 1 dgn\022004_ec.dgn PLOT DATE : 12/9/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 100.0000 sf / in.

WISDOT/CADDS SHEET 42

LEGEND

- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- RIP RAP MEDIUM WITH GEOTEXTILE FABRIC TYPE HR
- INLET PROTECTION, TYPE A & C, UNLESS CALLED OUT OTHERWISE ON PLAN
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

STA 1145+00

MATCH LINE

SLOPE INTERCEPTS

SLOPE INTERCEPTS

RC 1148+95.85

A LINE

1150+00"A"

1150+00

1150+00"B"

A&B

B LINE

PL 1150+88.45

PT 1152+20.75

PL 1152+69.89

PL 1685+78.86

℄ STH 167

℄ STH 175

SLOPE INTERCEPTS

F LINE

1155+00

1155+00"F"

1155+00"E"

E LINE

SLOPE INTERCEPTS

STA 1158+00

MATCH LINE

UNDERGROUND WATER VAULT (16'x14'x10')

BM #7

PLAYGROUND

BLEACHERS

ATHLETIC FIELD

BLEACH

ATHLE

LOGI

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	EROSION CONTROL - STH 175	SHEET E

FILE NAME : W:\x-Projects\RD\7140\project 1 dgn\022006_ec.dgn PLOT DATE : 12/10/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 100.0000 sf / in.

WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- RIP RAP MEDIUM WITH GEOTEXTILE FABRIC TYPE HR
- INLET PROTECTION, TYPE A & C, UNLESS CALLED OUT OTHERWISE ON PLAN
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- CONTAMINATED SOIL

PI = 1166+73.72
Y 122 624.91
X 359 482.57
Δ = 3°55'28"
D = 2°00'00"
T = 98.15'
L = 196.23'
R = 2864.79'
PC = 1165+75.57
PT = 1167+71.80
SE = 2.1%
RO = 41.00'

ATHLETIC FIELD
BLEACHERS
GER'S PARK POND
R/L STH 175
SLOPE INTERCEPTS
STA 1158+00
MATCH LINE
1160+00
1165+00
PI 1166+73.72
PC 1165+75.57
PT 1167+71.80
1170+00
STA 1173+00
MATCH LINE
HAZARDOUR MATERIAL AREA
(SEE "PLAN DETAIL" SHEET FOR INFO)
BM #8
BM #9
UNDERGROUND WATER VAULT (30'x12'x10')
UNDERGROUND WATER VAULT (14' DIA. X 11.7')
SEPTIC
POOL
RICHFIELD SERVICE
ELM

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	EROSION CONTROL - STH 175	SHEET 62	E

2

2

LEGEND

- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- RIP RAP MEDIUM WITH GEOTEXTILE FABRIC TYPE HR
- INLET PROTECTION, TYPE A & C, UNLESS CALLED OUT OTHERWISE ON PLAN
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

STA 1173+00

MATCH LINE

P.I. 1173+60.00

1175+00

SLOPE INTERCEPTS

R/L STH 175

BM #10

1180+00

PC 1181+98.34

1185+00

BM #11

PT 1186+67.84

STA 1188+00

MATCH LINE

P.I. 1184+33.43

1186+67.84 BACK =
1186+68.50 AHEAD

EQUATION

FILL PIPE

SLOPE INTERCEPTS

UNDERGROUND
WATER VAULT
(13.75' DIA. X 13.8')

RAILROAD STREET

DEPOT STREET

WISCONSIN & SOUTHERN RAILROAD

POOL

SEPTIC

WELL

SIGN

TANKS

WALLS

PI = 1184+33.42
Y 124 272.53
X 358 864.39
Δ = -7°28'49"
D = 1°35'36"
T = 235.08'
L = 469.50'
R = 3596.18'
PC = 1181+98.34
PT = 1186+67.84
SE = R.C.
RO = 39.00'

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	EROSION CONTROL - STH 175	SHEET 63	E

FILE NAME : W:\x-Projects\RD\7140\project 1 dgn\022008_ec.dgn PLOT DATE : 4/23/2015 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 100.0000 sf / in.

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- RIP RAP MEDIUM WITH GEOTEXTILE FABRIC TYPE HR
- INLET PROTECTION, TYPE A & C, UNLESS CALLED OUT OTHERWISE ON PLAN
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

WISCONSIN & SOUTHERN RAILROAD

SEPTIC

SEPTIC

SEPTIC

WETLAND BOUNDARY (TYP.)

SLOPE INTERCEPTS

PC 1189+86.08

PT 1193+54.02

R/L STH 175

STA 1188+00

1190+00

1195+00

1200+00

SIGN W

MATCH LINE

BM #12

PI 1191+70.07

EROSION MAT URBAN CLASS I, TYPE B

WETLAND BOUNDARY (TYP.)

SLOPE INTERCEPTS

END PROJECT 3360-09-70
STA 1194+05.00

PI = 1191+70.07
Y 124 921.89
X 358 516.56
Δ = -1°50'23"
D = 0°30'00"
T = 183.99'
L = 367.95'
R = 11 459.16'
PC = 1189+86.08
PT = 1193+54.02
SE = N.C.
RO = N/A

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	EROSION CONTROL - STH 175	SHEET 64	E

2

2

LEGEND

- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- RIP RAP MEDIUM WITH GEOTEXTILE FABRIC TYPE HR
- INLET PROTECTION, TYPE A & C, UNLESS CALLED OUT OTHERWISE ON PLAN
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

℄ STH 175

℄ STH 167

SLOPE INTERCEPTS

G LINE

H LINE

PI 685+78.86

685+00

685+00"G"

685+00"H"

680+00

680+00"G"

690+00

STH 167

STA. 678+00
BEGIN CONSTRUCTION

SLOPE INTERCEPTS

Ⓐ&Ⓑ

BM #13

BASSWOOD LN

REMOVE ASPHALTIC SURFACE AND REPLACE WITH SALVAGED TOPSOIL, SOD AND FERTILIZER

PI 150+88.45

STH 175

150+00

RC 148+95.85

ATHLETIC FIELD

BLEACHERS

LOOGER'S POND

UNDERGROUND WATER VAULT (16'x14'x10')

SEPTIC

WELL

SEPV

GUY

SIGN

FILLER CAPS

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	EROSION CONTROL - WEST LEG STH 167	SHEET 65	E

FILE NAME : W:\x-Projects\RD\7140\project 1 dgn\022011_ec.dgn PLOT DATE : 12/10/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 100.0000 sf / in.

WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- RIP RAP MEDIUM WITH GEOTEXTILE FABRIC TYPE HR
- INLET PROTECTION, TYPE A & C, UNLESS CALLED OUT OTHERWISE ON PLAN
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

N

R STH 175

D LINE

C LINE

R STH 167

REMOVE ASPHALTIC SURFACE AND REPLACE WITH SALVAGED TOPSOIL, SOD AND FERTILIZER

SLOPE INTERCEPTS

EXISTING 24" CMCP TO REMAIN

WOLF RD

EXISTING RCCP TO REMAIN

WISCONSIN & SOUTHERN RAILROAD

STH 167

690+00"D"
690+00"C"
690+00
695+00"D"
695+00"C"
695+00
700+00
700+00"D"
700+00"C"

PI 1150+88.45

PC 1148+95.85

BM #7

BM #14

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	EROSION CONTROL - EAST LEG STH 167	SHEET 66	E

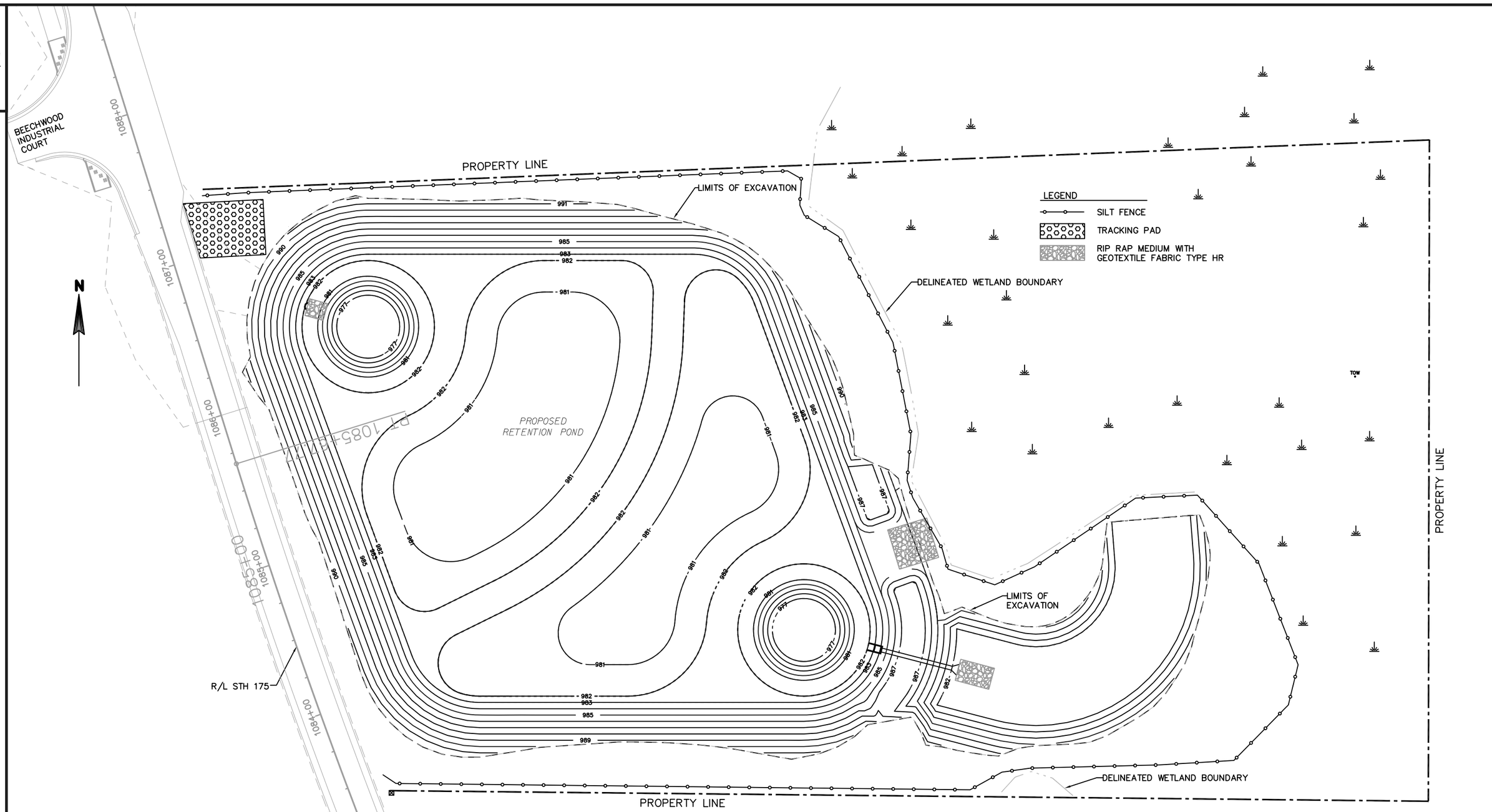
FILE NAME : W:\x-Projects\RD\7140\project 1 dgn\022012_ec.dgn PLOT DATE : 12/11/2014 PLOT BY : Jim0 PLOT NAME : PLOT SCALE : 100.0000 sf / in.

PROPERTY LINE
STORM SEWER OUTFALL EL. 982.00
4:1 SIDE SLOPE
NATIVE ZONE
LIMITS OF EXCAVATION
MEDIUM RIPRAP WITH GEOTEXTILE FABRIC TYPE HR
3:1 SLOPE
INLET BASIN/FOREBAY (LINER REQ'D)
STORM SEWER OUTFALL
SHALLOW MARSH ZONE
R/L (SEE PROFILE SHEET)
10:1 SAFETY SHELF
MH
MONITORING WELL
EXISTING CONTOURS
EXISTING WETLAND AREA
6.04 AC FT OF EXISTING STORAGE
BETWEEN ELEVATIONS 982 & 984
DELINEATED WETLAND BOUNDARY AS PROVIDED BY WISDOT
DELINEATED WETLAND BOUNDARY
N
EXISTING CONTOURS
4:1 SIDE SLOPE
NATIVE ZONE
MEDIUM RIPRAP WITH GEOTEXTILE FABRIC TYPE HR
981.20
EOP Sta = 7+56.27
PT STA = 7+30.76
981.29
7+00
LIMITS OF EXCAVATION
3:1 SLOPE
EMERGENCY SPILLWAY
OUTLET BASIN/FORBAY (LINER REQ'D)
STORM POND OUTFALL STRUCTURE
PI STA = 4+55.12
5+00
PC STA = 5+88.06
PRAIRIE ZONE
981.46
6+00
981.62
R STA = 5+56.17
MEDIUM RIPRAP WITH GEOTEXTILE FABRIC TYPE HR
NATIVE ZONE
R/L STH 175
4:1 SIDE SLOPE
10:1 SAFETY SHELF
LIMITS OF EXCAVATION

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	AWSMS RETENTION POND – LAYOUT	SHEET	E

FILE NAME: N:\PDS\Projects\33600900\DDE\Graphical Information\Plan Sheets\022020_dp.dwg
PLOT DATE: May 05, 2015
PLOT BY: dota4p
PLOT SCALE:
ROTATION:

2



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	AWSMS RETENTION POND – EROSION CONTROL PLAN	SHEET E

FILE NAME: N:\PDS\Projects\33600900\DDE\Graphical Information\Plan Sheets\022020a_dp.dwg PLOT DATE: May 05, 2015 PLOT BY: dota4p PLOT SCALE: ROTATION:

PROPERTY LINE

N=115003.29
E=361805.03

NATIVE ZONE

N=115003.29
E=361907.88

N=114999.29
E=361965.91

N=115003.29
E=362010.73

LIMITS OF EXCAVATION

N=114987.99
E=362039.38

N=114973.37
E=362025.74

N=114973.15
E=362053.91

DELINEATED WETLAND BOUNDARY AS PROVIDED BY WISDOT

DELINEATED WETLAND BOUNDARY

N

983
982
981
977
R46.00'
R20.00'
12.00'
10.00'
20.00'

N=114957.29
E=361805.03

INLET BASIN/FOREBAY
(LINER REQ'D)

N=114941.42
E=361761.85

N=114979.29
E=361965.91

R20.00'

N=114978.58
E=361985.90'

N=114974.08
E=362005.75

R46.00'
R20.00'
R42.00'

N=114971.77
E=362050.15

N=114957.03
E=362010.53

N=114979.29
E=361934.78

N=114979.29
E=361916.74

R30.00'

N=114949.29
E=361916.74

N=114949.29
E=361934.78

N=114947.44
E=361964.72

N=114951.43
E=361886.82

SHALLOW MARSH
ZONE

NATIVE ZONE

N=114898.68
E=362017.07

N=114893.35
E=362036.35

R20.00'

N=114900.25
E=362055.12

N=114877.18
E=362063.60

R30.00'

N=114866.83
E=362035.44

N=114839.49
E=362047.77

N=114876.88
E=362089.28

N=114882.53
E=361838.73

N=114855.19
E=361851.06

N=114844.84
E=361822.90

N=114838.13
E=361857.33

N=114827.78
E=361829.17

N=114811.23
E=361870.63

N=114845.15
E=361797.22

N=114841.04
E=362135.47

R2.00'

N=114835.86
E=362121.39

N=114836.55
E=362123.27

N=114833.45
E=362276.75

N=114837.40
E=362326.65

N=114811.90
E=362328.66

N=114780.60
E=362124.65

N=114787.96
E=362139.40

N=114794.11
E=362152.72

N=114807.97
E=362278.82

PRAIRIE ZONE

LIMITS OF EXCAVATION

N=114765.46
E=362178.47

N=114793.42
E=362150.84

R50.00'

N=114765.74
E=362261.11

N=114727.44
E=362293.25

50.00'

N=114755.64
E=362216.45

N=114707.23
E=362203.92

N=114716.80
E=362165.98

N=114723.78
E=362146.68

N=114725.37
E=362129.38

NATIVE ZONE

LIMITS OF EXCAVATION

OUTLET BASIN/FORBAY
(LINER REQ'D)

N=114764.73
E=362081.48

R20.00'
R46.00'
977

N=114789.53
E=361821.92

R20.00'

N=114796.43
E=361840.69

N=114778.50
E=361849.56

N=114761.61
E=361860.52

NATIVE ZONE

N=114764.52
E=361875.68

R46.00'
R42.00'
R20.00'

N=114743.68
E=361869.38

N=114748.87
E=361832.60

N=114722.73
E=361875.77

N=114724.55
E=361863.57

N=114718.73
E=361875.77

N=114778.95
E=361933.85

N=114772.73
E=361969.76

N=114770.59
E=361999.69

R30.00'

N=114762.73
E=361945.56

N=114742.73
E=361969.76

N=114742.73
E=361945.56

N=114718.73
E=361978.63

N=114718.73
E=362081.48

SHALLOW MARSH
ZONE

MH

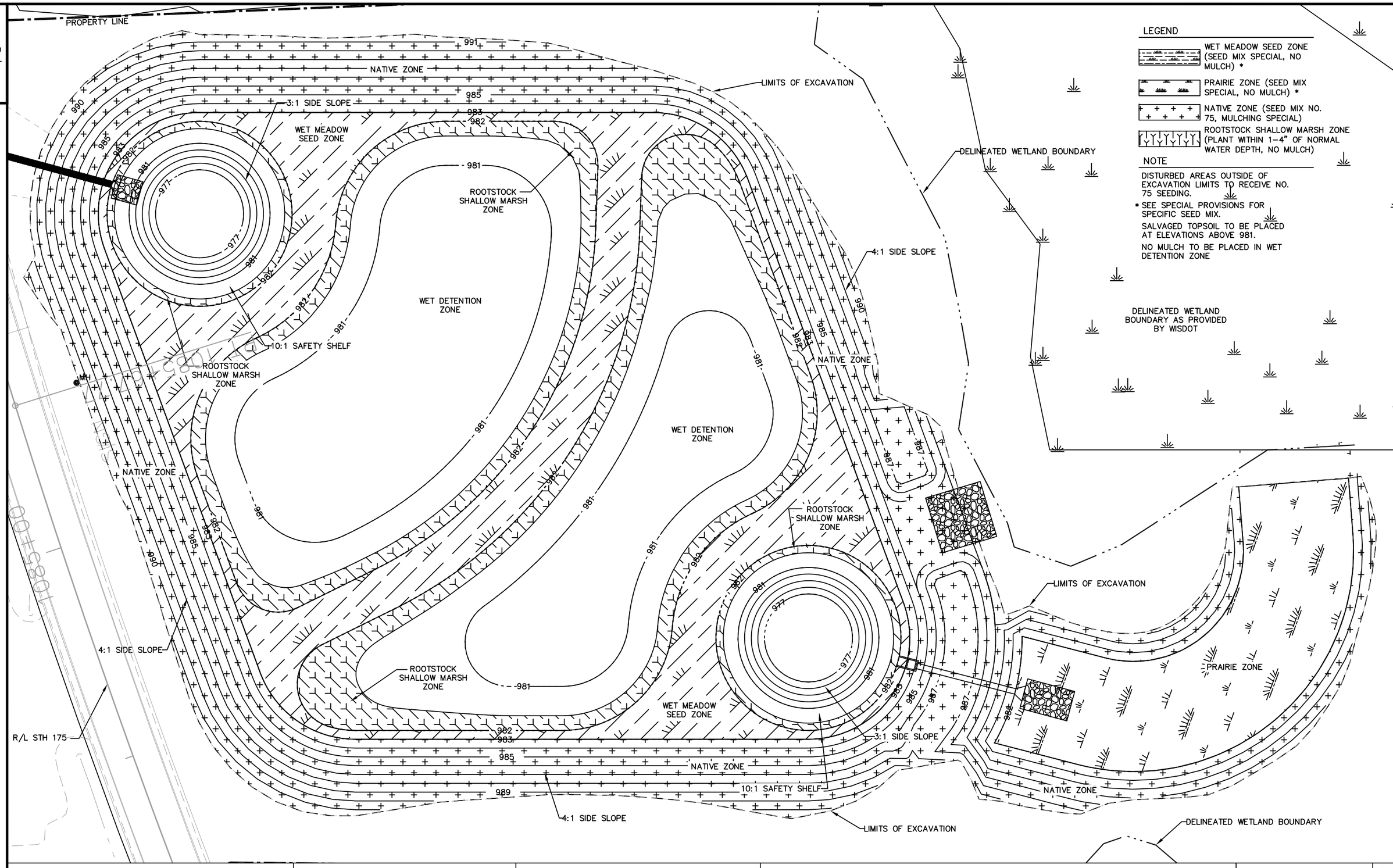
PI 1085+67.77

1085+00

R/L STH 175

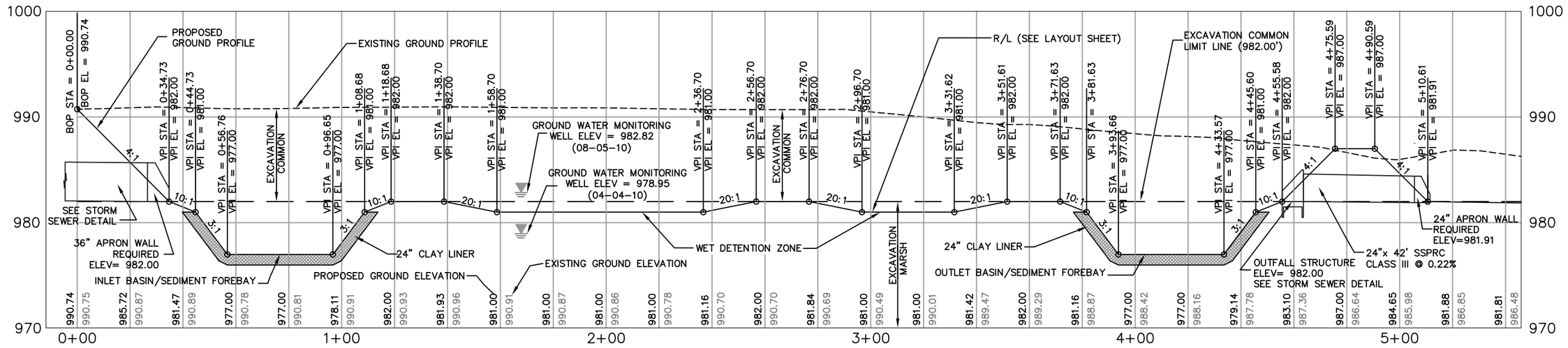
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	AWSMS RETENTION POND – COORDINATES	SHEET	E

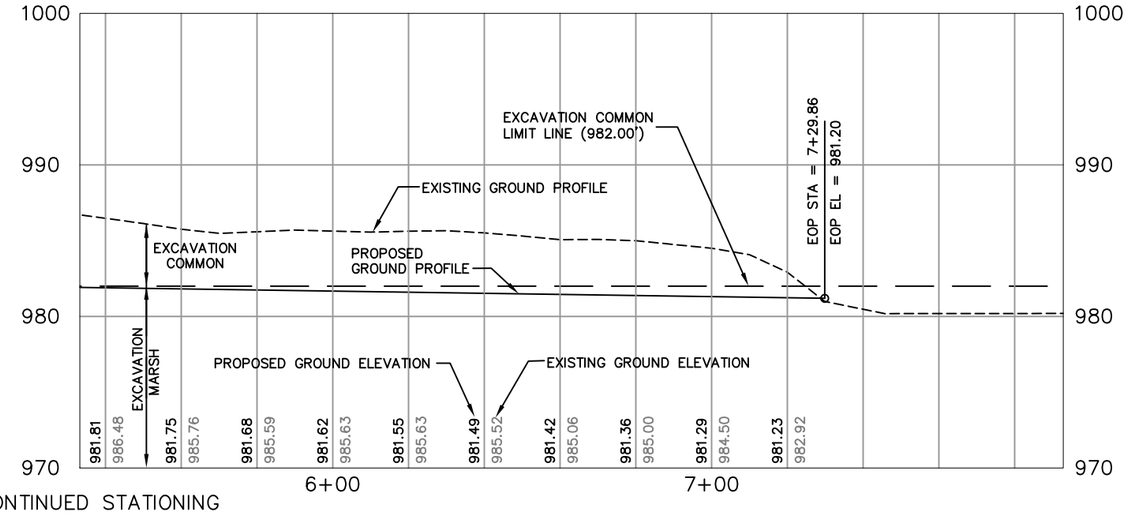
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PLOT DATE: May 05, 2015
PLOT BY: dota4p
PLOT SCALE:
ROTATION:



PROJECT NO: 3360–09–70	HWY: STH 175	COUNTY: WASHINGTON	AWSMS RETENTION POND – LANDSCAPING PLAN	SHEET	E

FILE NAME: N:\PDS\Projects\33600900\DDE\Graphical Information\Plan Sheets\022022_dp.dwg PLOT DATE: May 05, 2015 PLOT BY: dota4p PLOT SCALE: ROTATION:





CONTINUED STATIONING

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	AWSMS RETENTION POND - PROFILE	SHEET	E

FILE NAME: N:\PDS\Projects\33600900\DDE\Graphical Information\Plan Sheets\022023_dp.dwg PLOT DATE: Aug 20, 2015 PLOT BY: dota4p PLOT SCALE: ROTATION:

2

STA. 1087+00, 32.8' LT
INL MEDIAN 1 GRATE-MS (1.1)

STA 1087+00, 6' LT
MH 6-FT DIA-J (1.0)

STA 1086+50.8, 71.4' RT
36" AECPRC W/ PIPE GRATE (1.2)

BEECHWOOD INDUSTRIAL COURT

SIGN

SIGN

STA 1088+85, 17.5' LT
INL 4-FT DIA-HM (2.2)

SLOPE INTERCEPTS

STA 1089+50, 17.5' LT
INL 4-FT DIA-HM (2.1)

STA 1089+50, 6' LT
MH 6-FT DIA-J (2.0)

SLOPE INTERCEPTS

STA 1090+25, 17.5' LT
INL 4-FT DIA-HM (3.2)

STA 1091+00, 17.5' LT
INL 4-FT DIA-HM (3.1)

STA 1091+75, 17.65' LT
INL 4-FT DIA-HM (4.2)

STA 1091+00, 6' LT
MH 6-FT DIA-J (3.0)

STA 1091+00, 17.5' RT
INL-2X3-FT-HM (3.3)

* NOTE: AT STA 1091+05, STORM SEWER IS TO BE PLACED UNDER PROPOSED CHARTER FACILITY.

1086+00 1087+00 1088+00 1089+00 1090+00 1091+00 1092+00

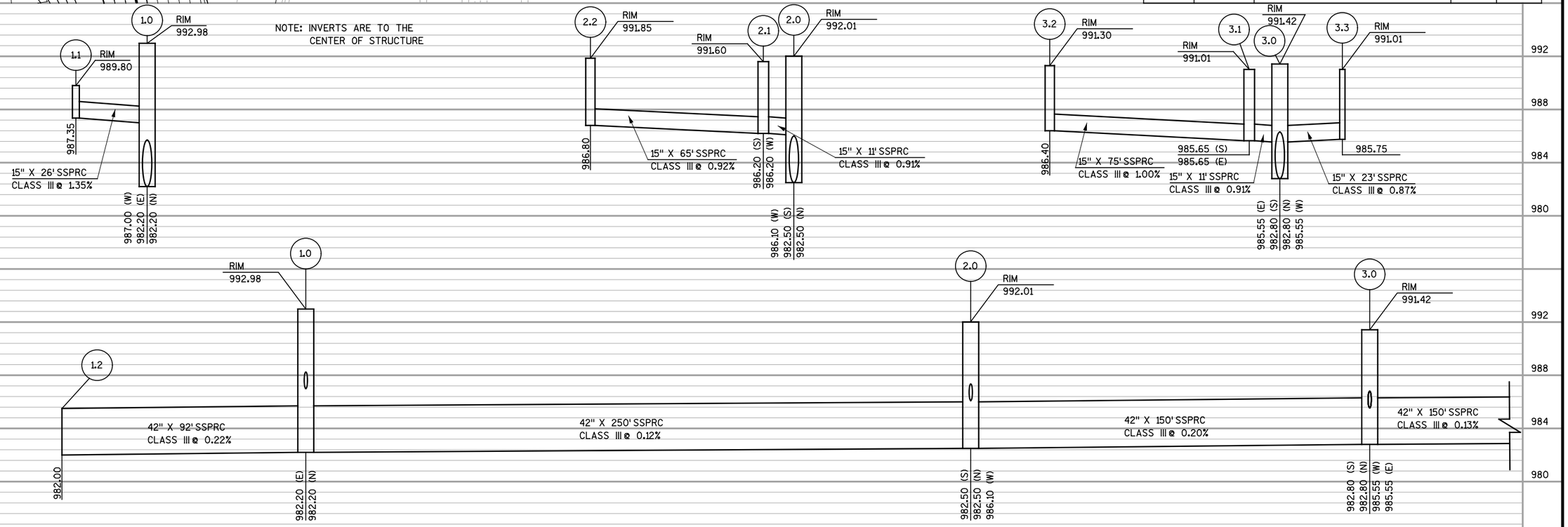
STA 1092+00

MATCH LINE

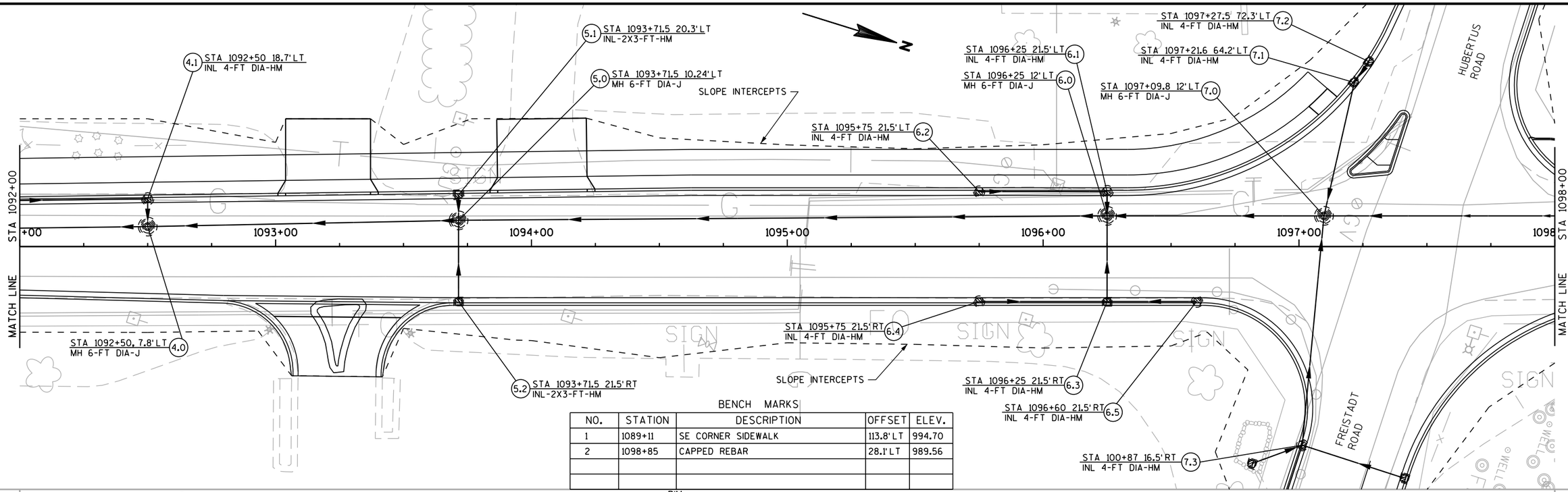
BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	1089+11	SE CORNER SIDEWALK	113.8' LT	994.70
2	1098+85	CAPPED REBAR	28.1' LT	989.56

NOTE: INVERTS ARE TO THE CENTER OF STRUCTURE

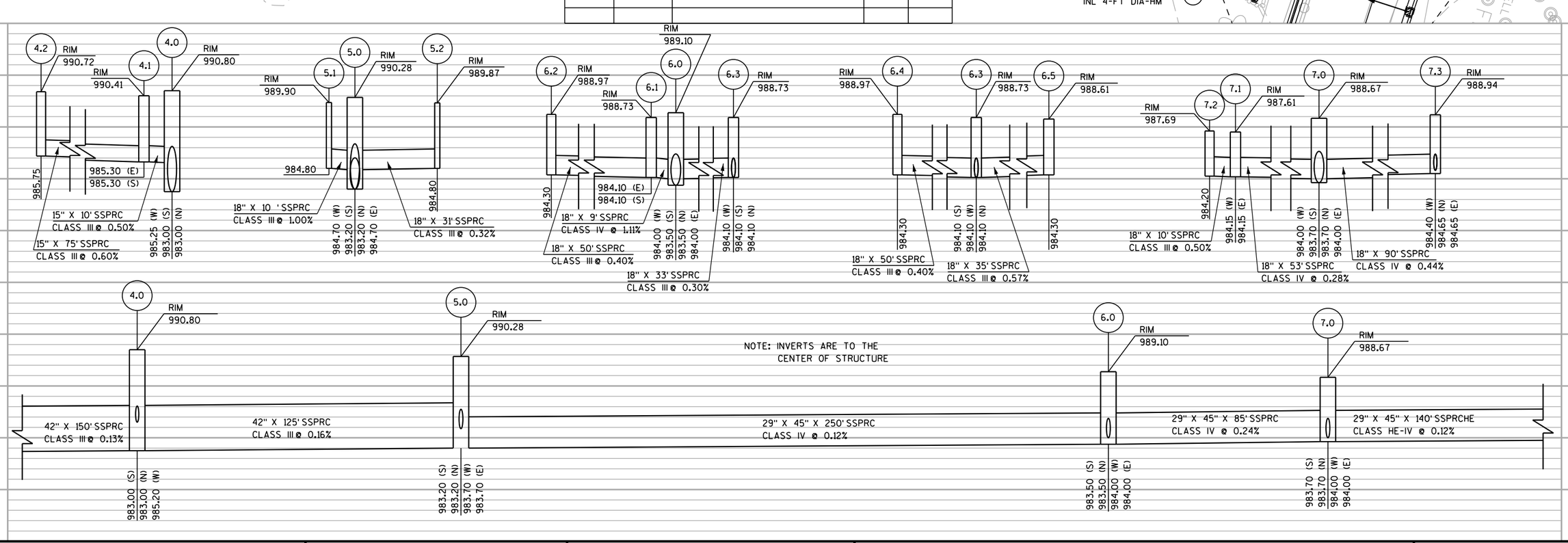


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET 72	E

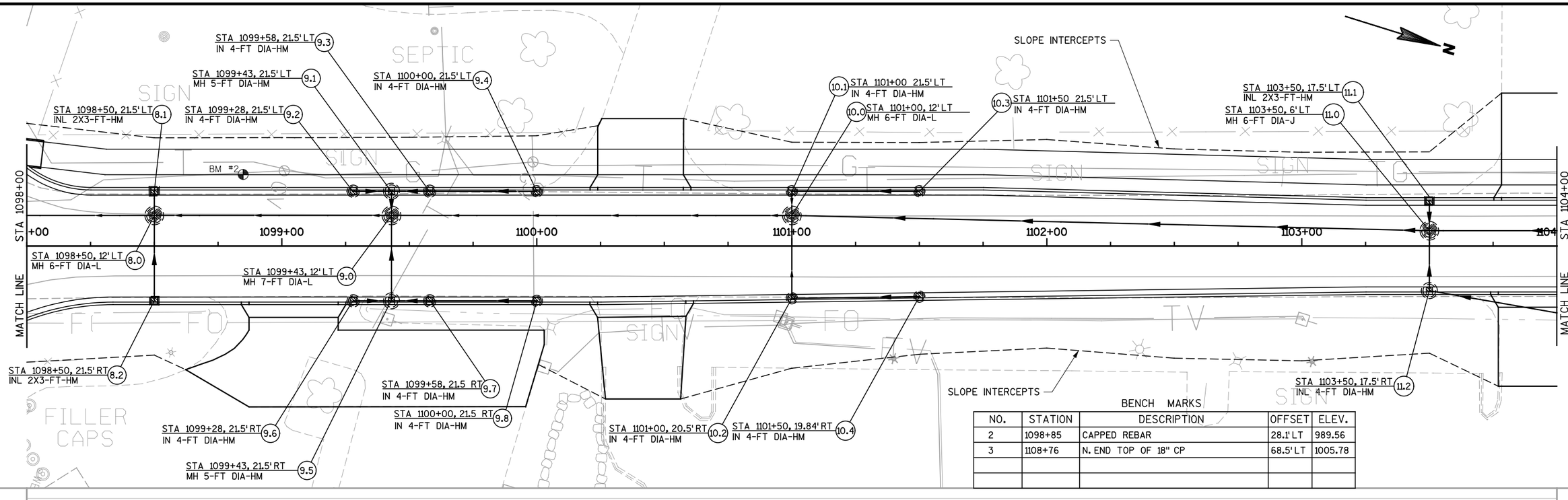


BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	1089+11	SE CORNER SIDEWALK	113.8'LT	994.70
2	1098+85	CAPPED REBAR	28.1'LT	989.56

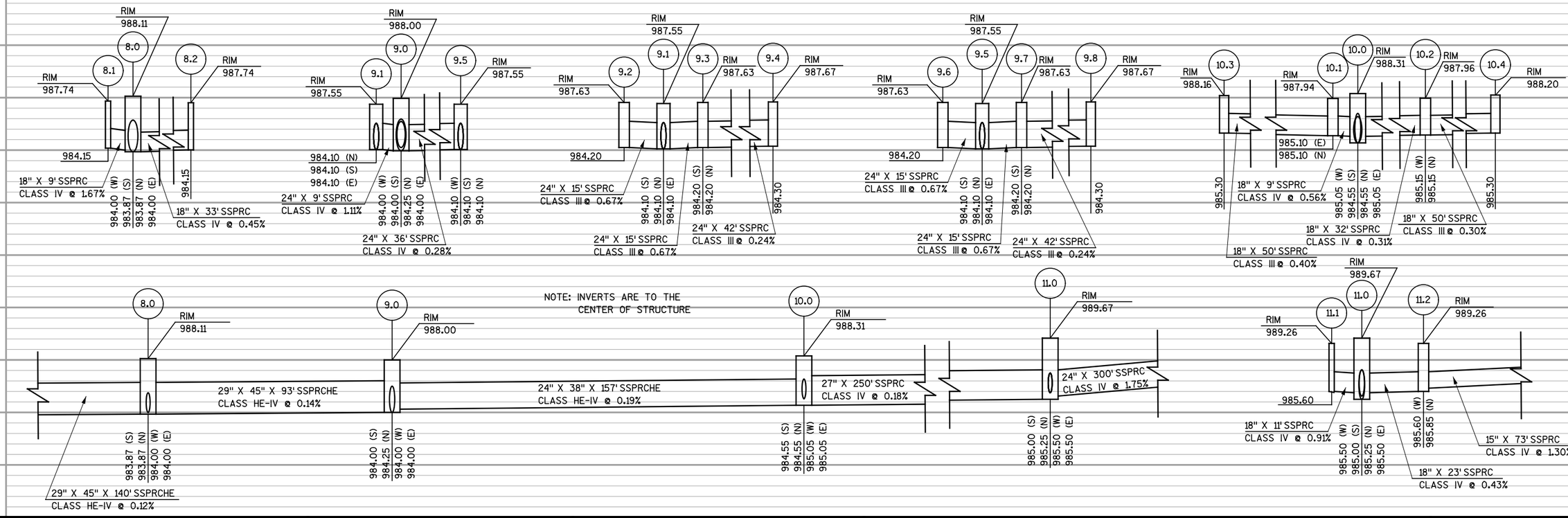


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET	E



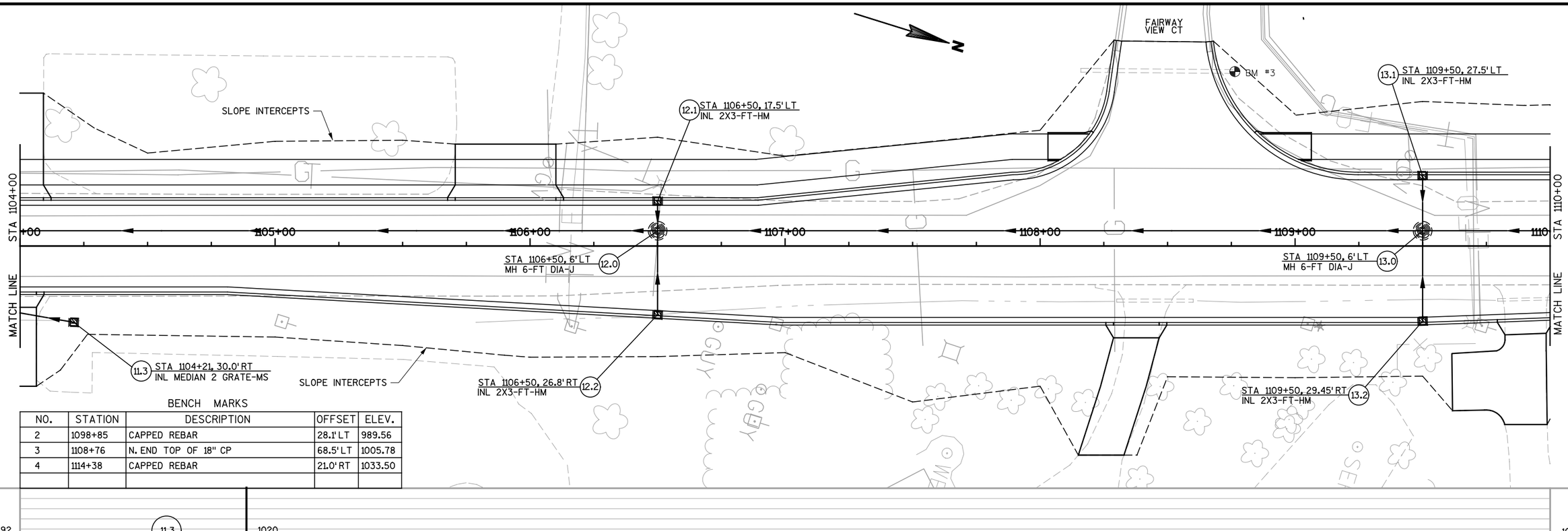
BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
2	1098+85	CAPPED REBAR	28.1'LT	989.56
3	1108+76	N. END TOP OF 18" CP	68.5'LT	1005.78



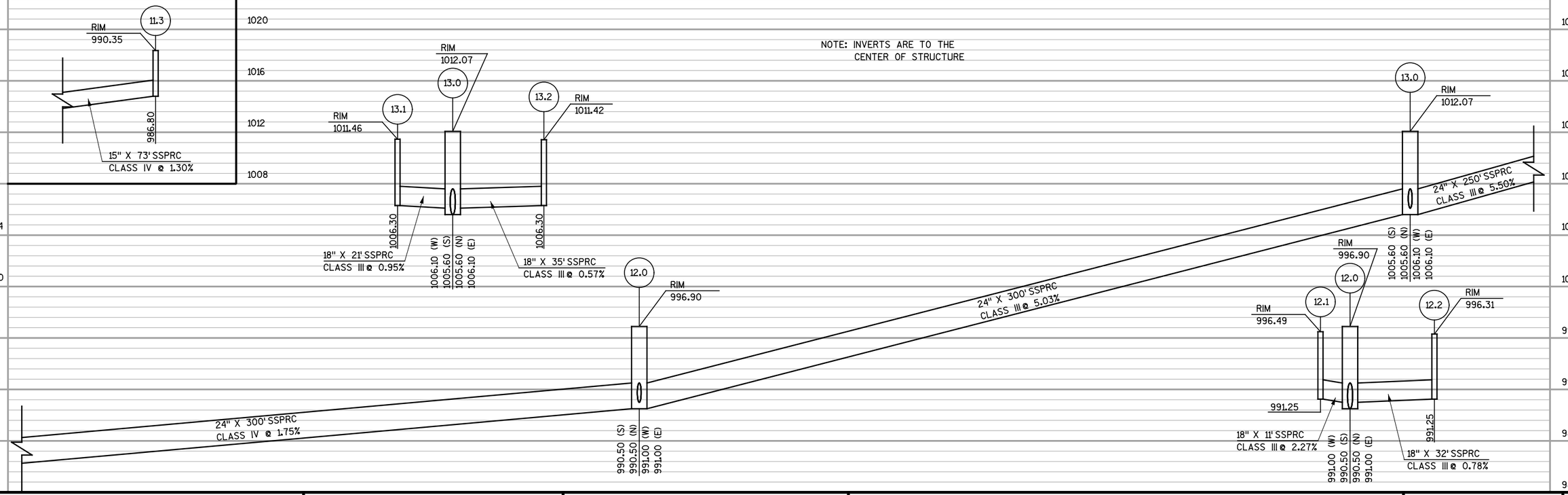
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET 74	E

2



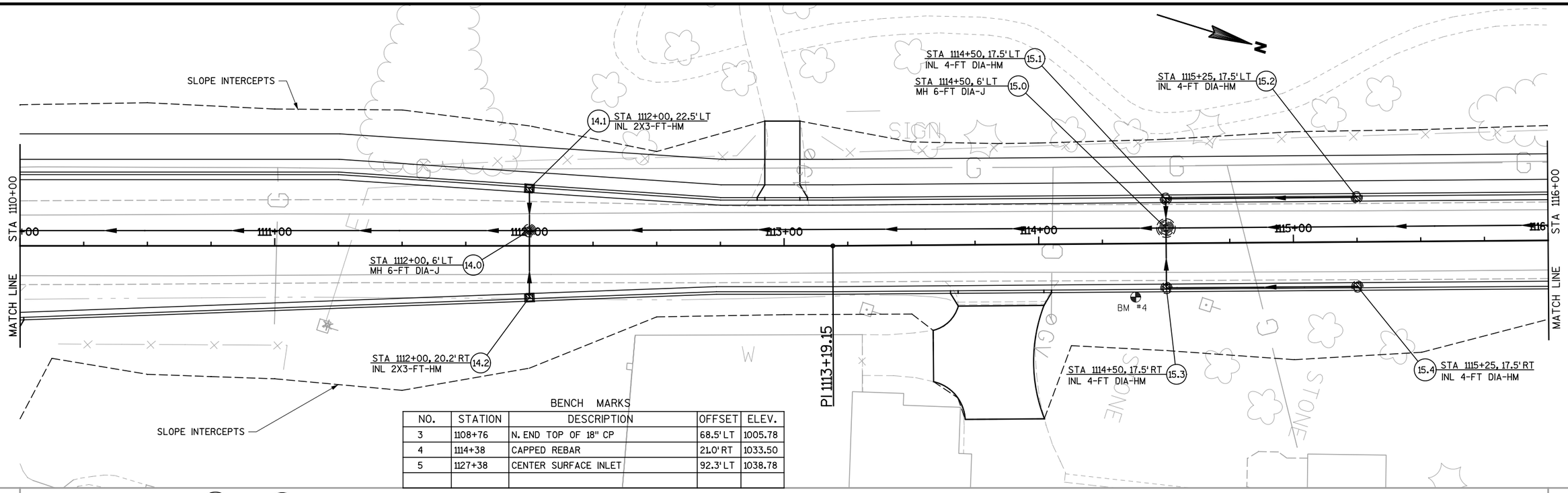
BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
2	1098+85	CAPPED REBAR	28.1'LT	989.56
3	1108+76	N. END TOP OF 18" CP	68.5'LT	1005.78
4	1114+38	CAPPED REBAR	21.0'RT	1033.50



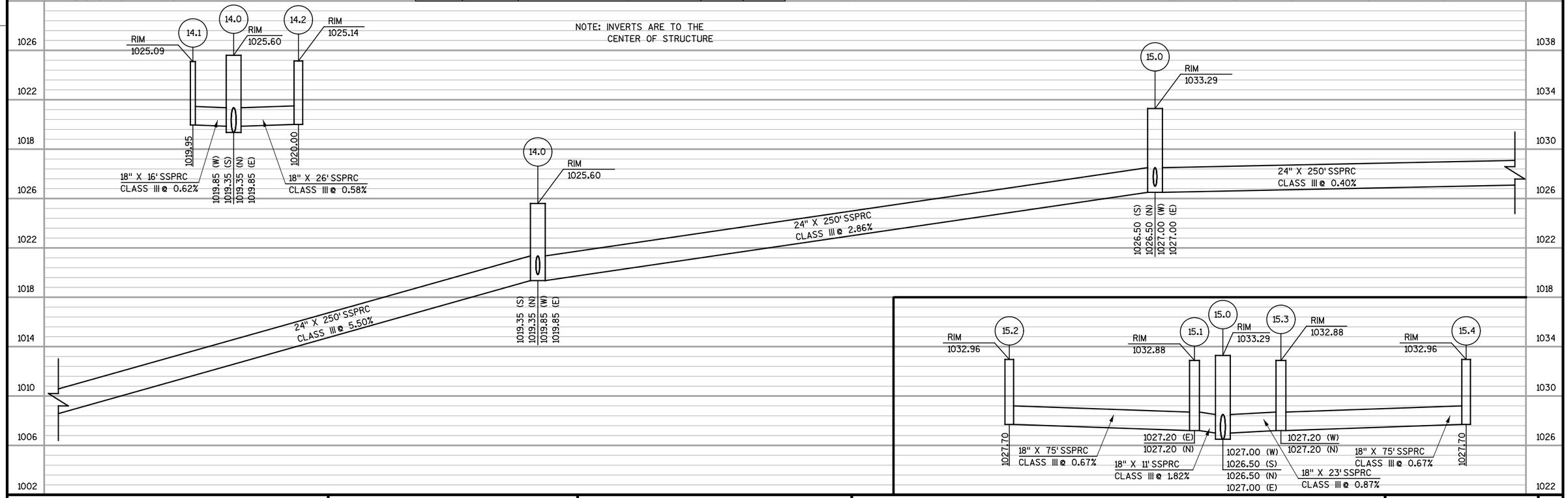
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET 75	E

2



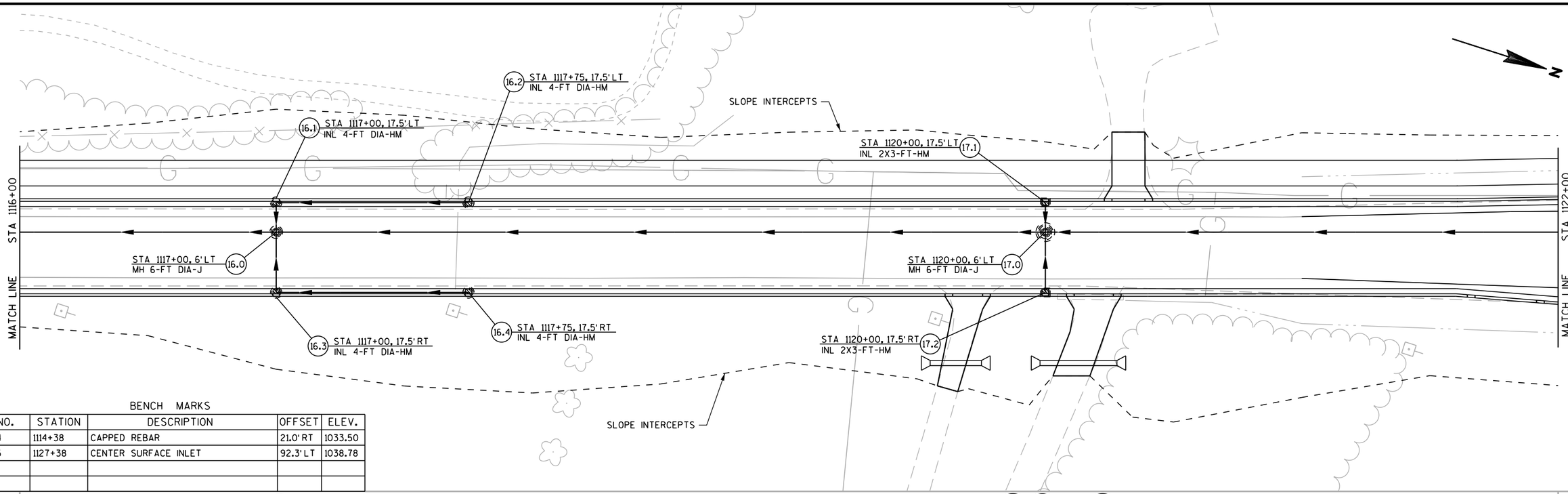
BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
3	1108+76	N. END TOP OF 18" CP	68.5'LT	1005.78
4	1114+38	CAPPED REBAR	21.0'RT	1033.50
5	1127+38	CENTER SURFACE INLET	92.3'LT	1038.78



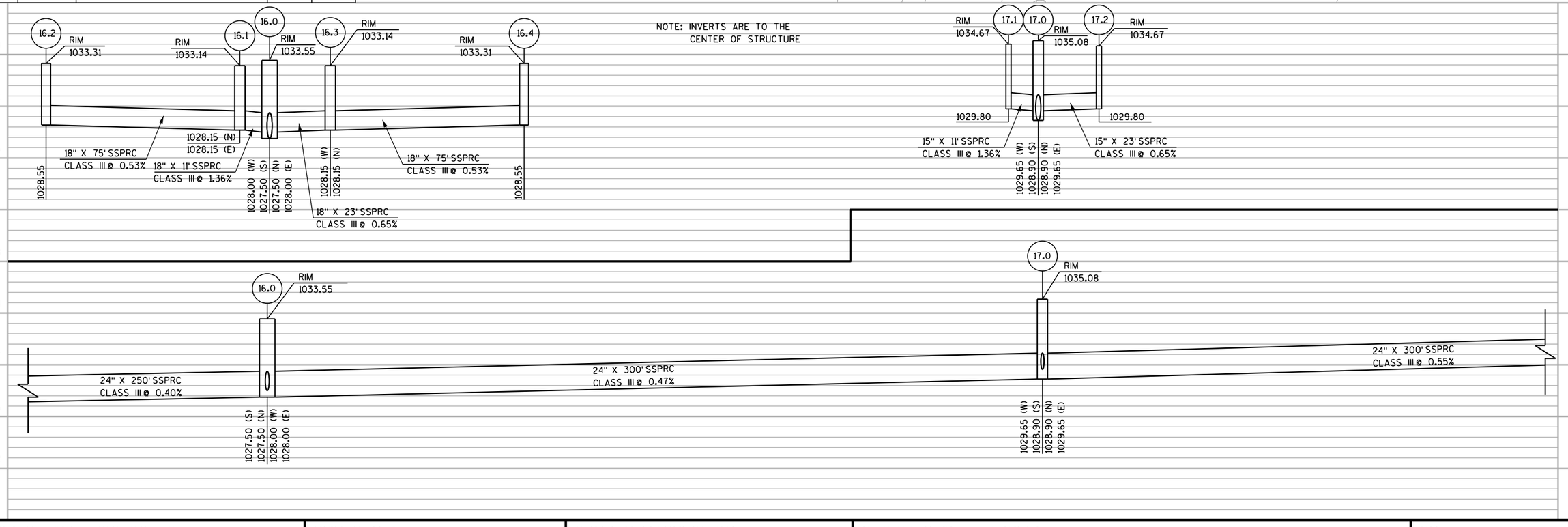
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2

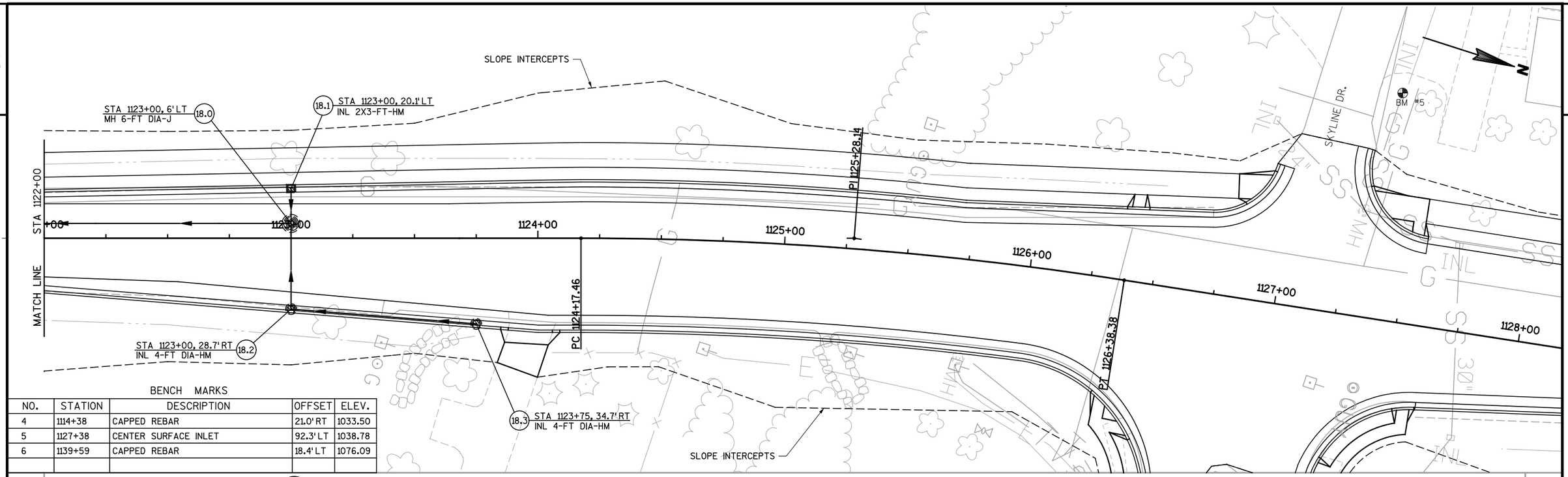


BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
4	1114+38	CAPPED REBAR	21.0'RT	1033.50
5	1127+38	CENTER SURFACE INLET	92.3'LT	1038.78

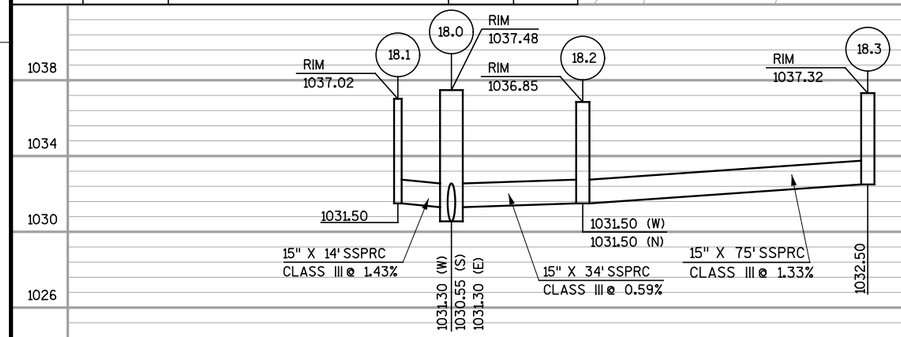


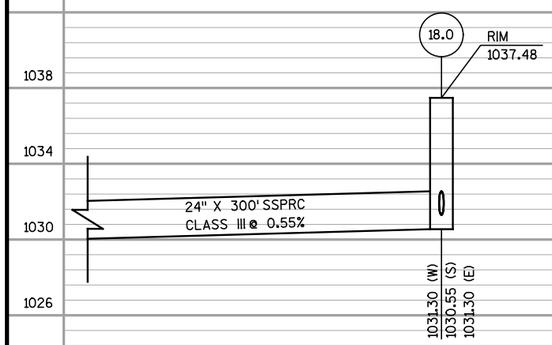
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET	E



BENCH MARKS

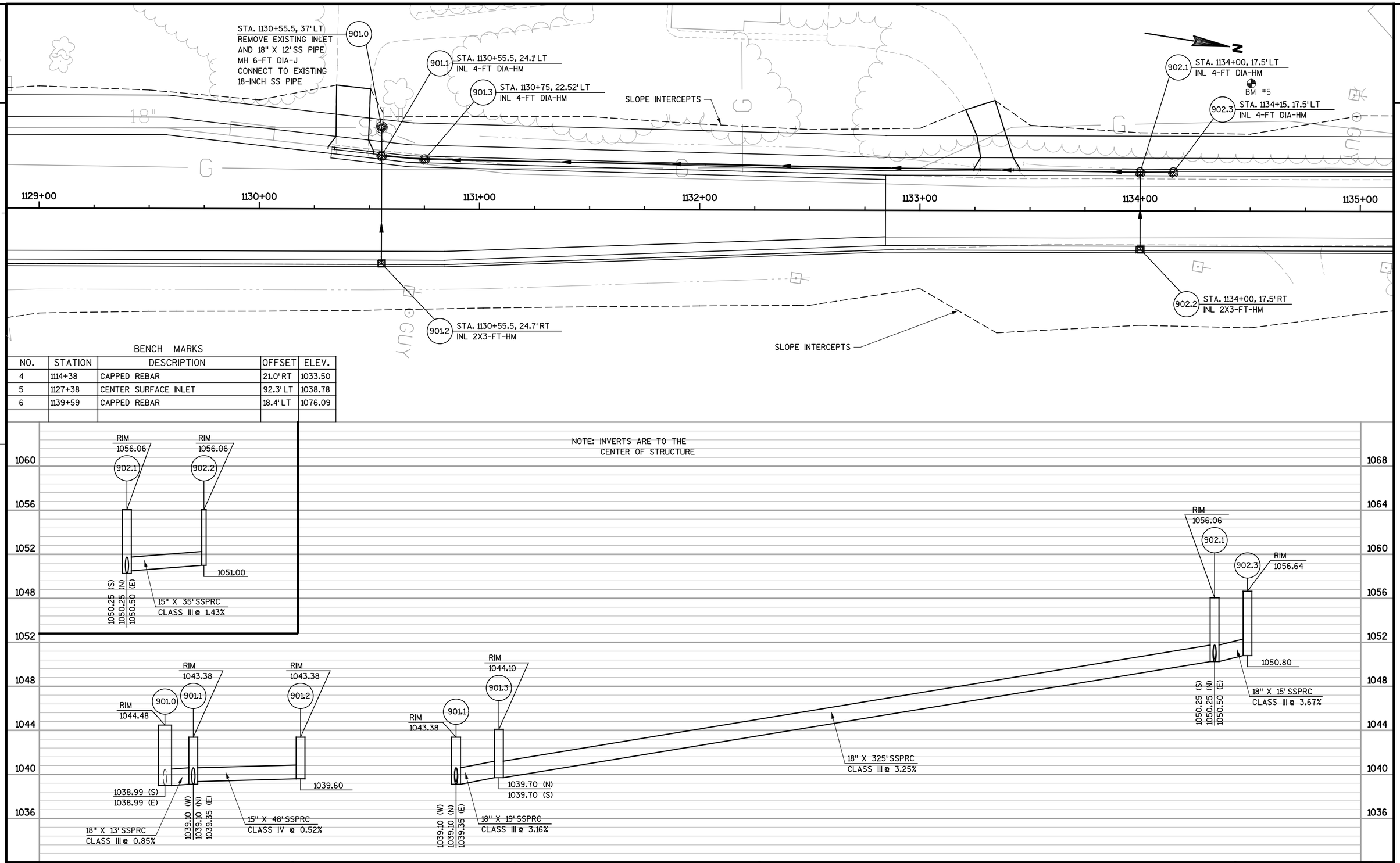
NO.	STATION	DESCRIPTION	OFFSET	ELEV.
4	1114+38	CAPPED REBAR	21.0'RT	1033.50
5	1127+38	CENTER SURFACE INLET	92.3'LT	1038.78
6	1139+59	CAPPED REBAR	18.4'LT	1076.09





NOTE: INVERTS ARE TO THE CENTER OF STRUCTURE

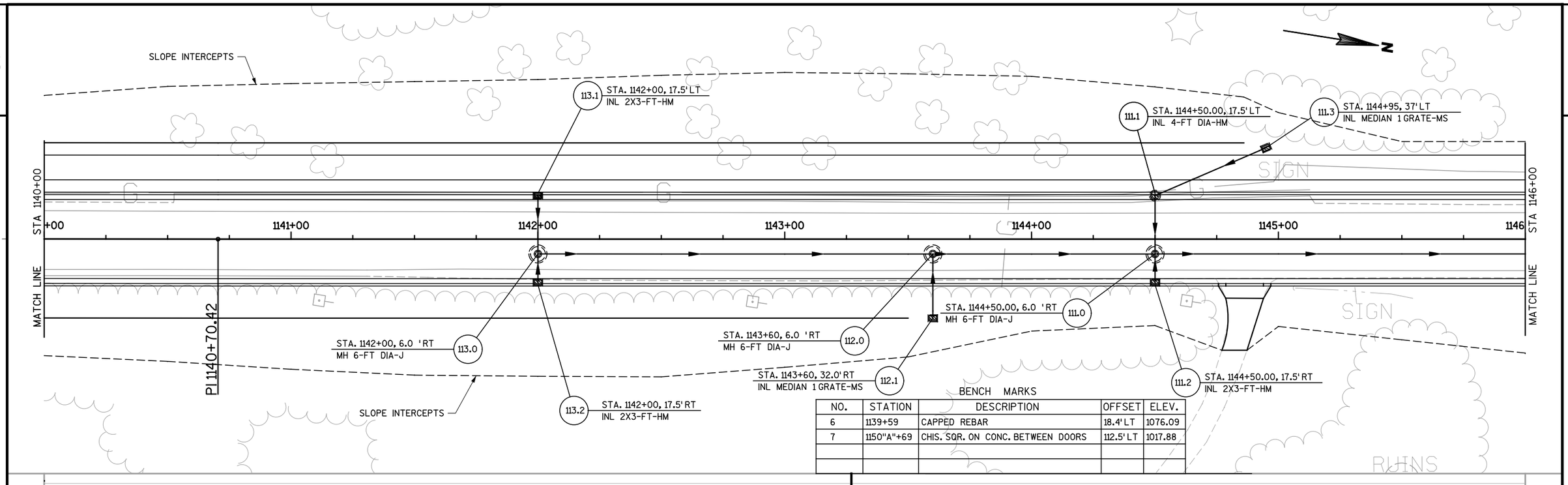
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET 78	E



BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
4	1114+38	CAPPED REBAR	21.0' RT	1033.50
5	1127+38	CENTER SURFACE INLET	92.3' LT	1038.78
6	1139+59	CAPPED REBAR	18.4' LT	1076.09

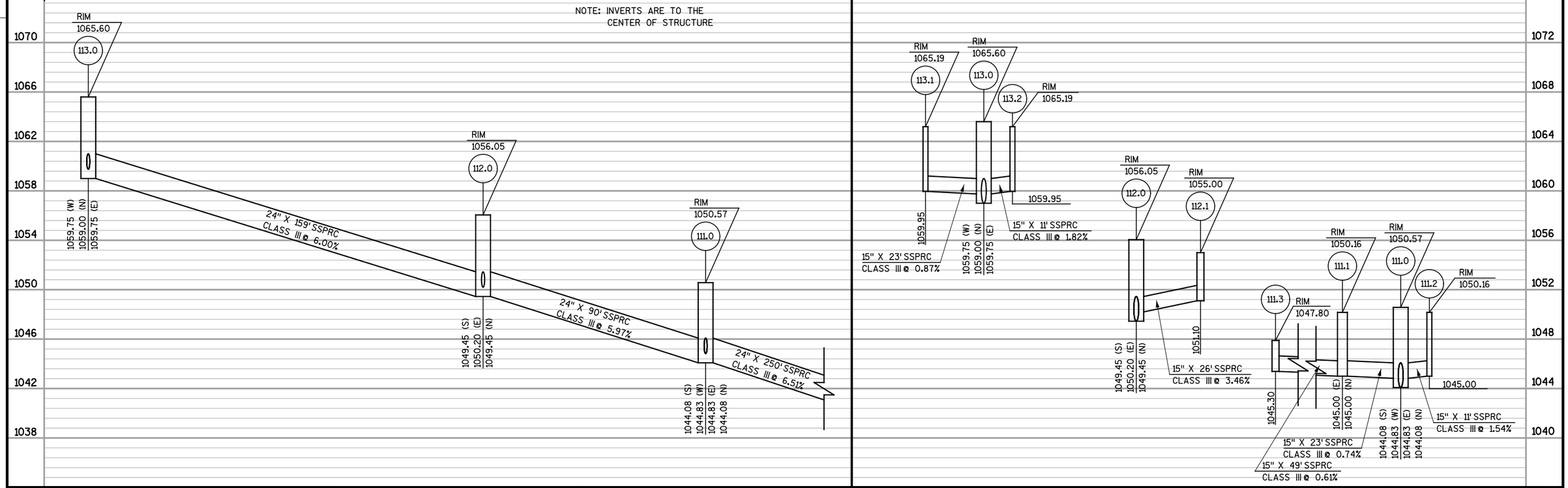
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET 79	E



BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
6	1139+59	CAPPED REBAR	18.4'LT	1076.09
7	1150"A"+69	CHIS. SQR. ON CONC. BETWEEN DOORS	112.5'LT	1017.88

NOTE: INVERTS ARE TO THE CENTER OF STRUCTURE



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET 80	E

2

STA. 147+00, 6.0 'RT
MH 6-FT DIA-J
110.0

SLOPE INTERCEPTS

110.1 STA. 1147+00, 17.5'LT
INL 2X3-FT-HM

110.2 STA. 1147+00, 17.5'RT
INL 2X3-FT-H

SLOPE INTERCEPTS

STA. 1148"B"+85.95 , 37.7'RT
INL MEDIAN 2 GRATE-MS
109.2

STA. 1148"B"+86.95 , 28.9'RT
INL 2X3-FT-H
109.1

STA. 1148"B"+89.65 , 4.95'RT
MH 6-FT DIA-J
109.0

STA. 1149"A"+80.10, 24.6'LT
INL 2X3-FT-H
108.1

PC 1148+95.85

STA. 1149"B"+80.16 , 6.0 'RT
MH 6-FT DIA-J
108.0

STA. 1150"A"+73.5, 24.6'LT
CONNECT TO EXISTING 10" PVC
107.4

STA. 1150"A"+92, 21.25'LT
MH 4-FT DIA-J
107.3

STA. 1149"B"+79.57 , 17.6'RT
INL 2X3-FT-H
108.2

STA. 1151"B"+59.26 , 9.9 'LT
INL 4-FT DIA-Z
107.1

STA. 1151+75, 25.4'LT
INL 4-FT DIA-H
107.2

STA. 1151"B"+59.36 , 6.0 'RT
MH 6-FT DIA-J
107.0

PI 1150+88.45

STA 1152+00

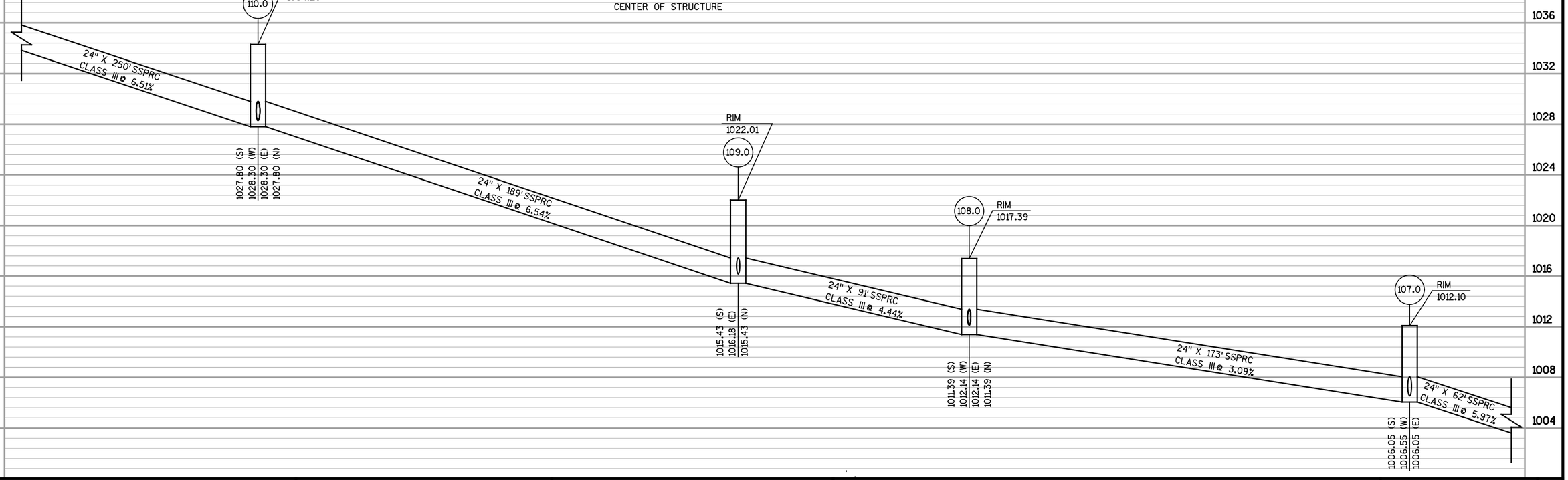
MATCH LINE

1146+00
1147+00"A"
1147+00"B"
1147+00
1148+00"A"
1148+00
1148+00"B"
1149+00"A"
1149+00
1149+00"B"
1150+00"A"
1150+00
1150+00"B"
1151+00"A"
1151+00
1151+00"B"
1152

BENCH MARKS

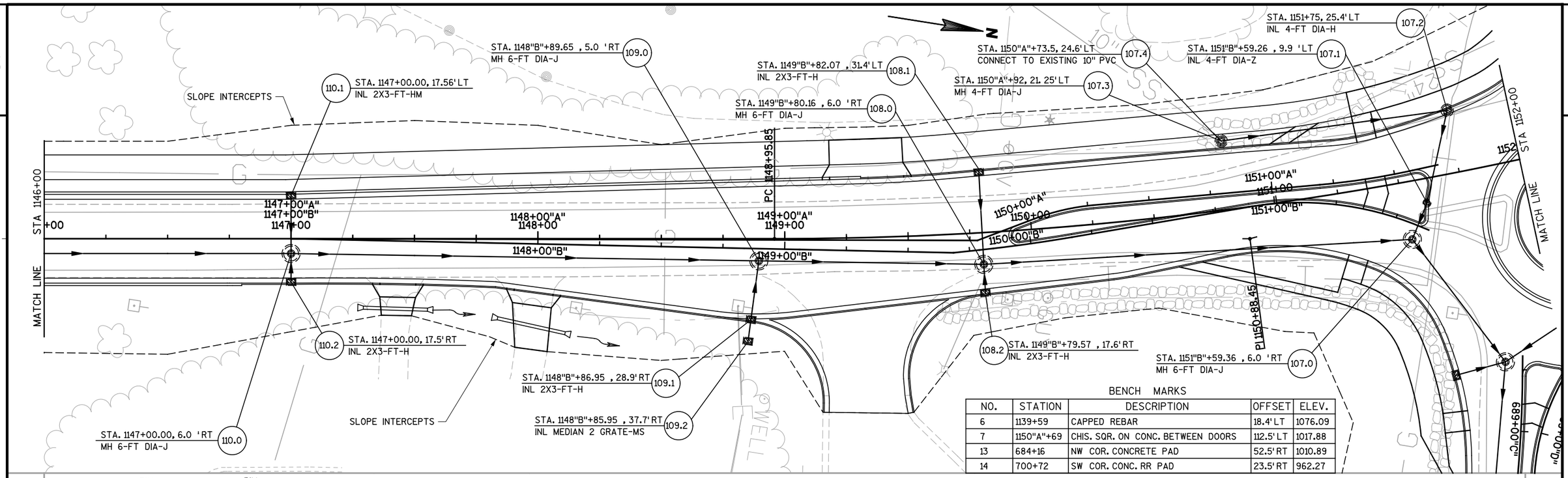
NO.	STATION	DESCRIPTION	OFFSET	ELEV.
6	1139+59	CAPPED REBAR	18.4'LT	1076.09
7	1150"A"+69	CHIS. SQR. ON CONC. BETWEEN DOORS	112.5'LT	1017.88
13	684+16	NW COR. CONCRETE PAD	52.5'RT	1010.89
14	700+72	SW COR. CONC. RR PAD	23.5'RT	962.27

NOTE: INVERTS ARE TO THE
CENTER OF STRUCTURE



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET	E

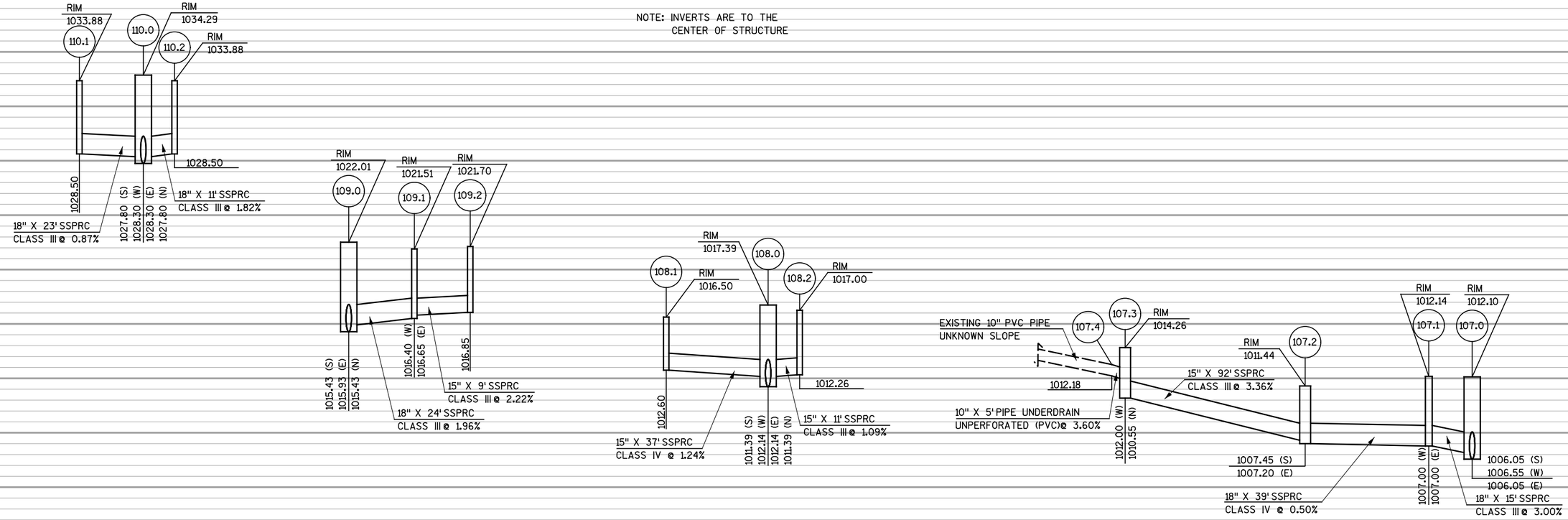
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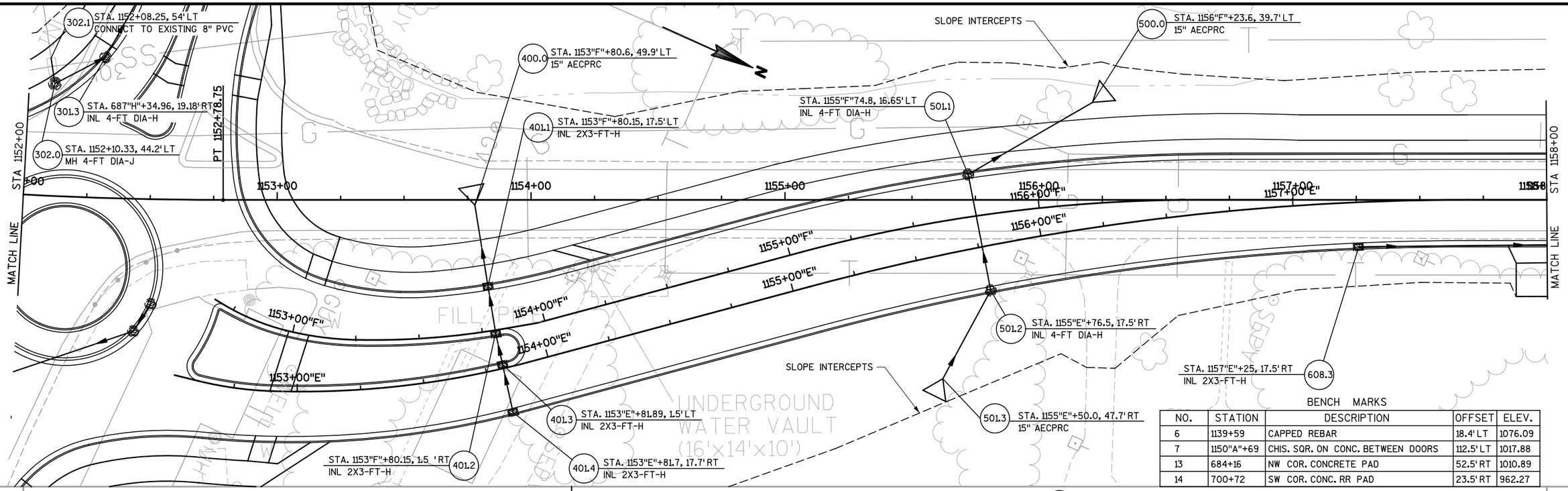


BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
6	1139+59	CAPPED REBAR	18.4'LT	1076.09
7	1150"A"+69	CHIS. SQR. ON CONC. BETWEEN DOORS	112.5'LT	1017.88
13	684+16	NW COR. CONCRETE PAD	52.5'RT	1010.89
14	700+72	SW COR. CONC. RR PAD	23.5'RT	962.27

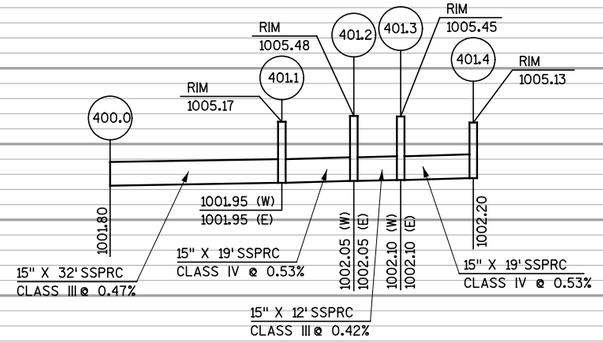
NOTE: INVERTS ARE TO THE CENTER OF STRUCTURE

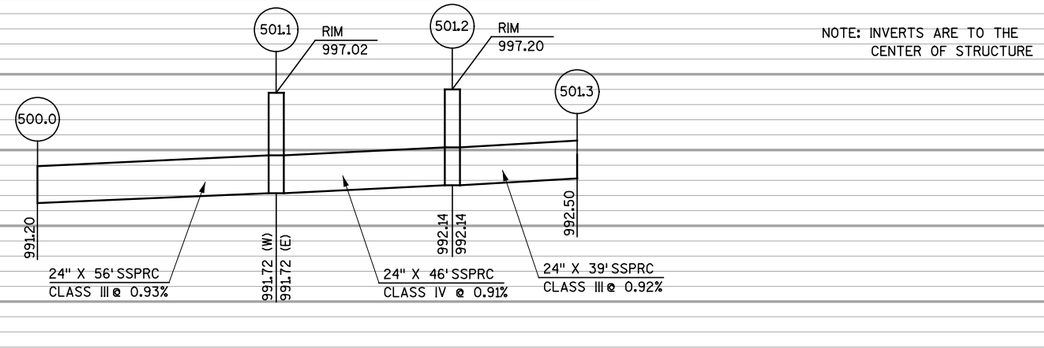




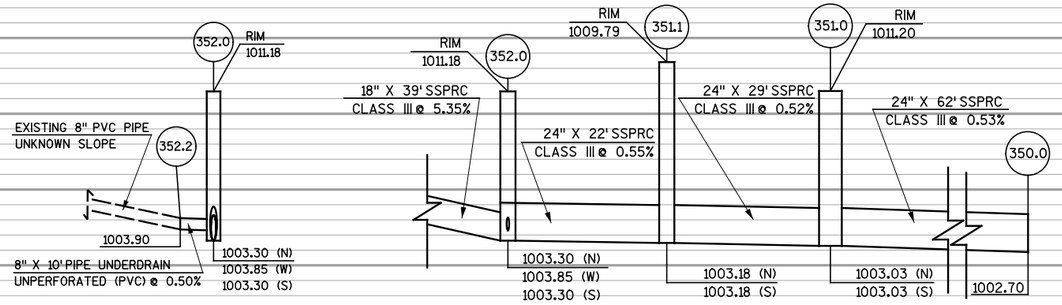
BENCH MARKS

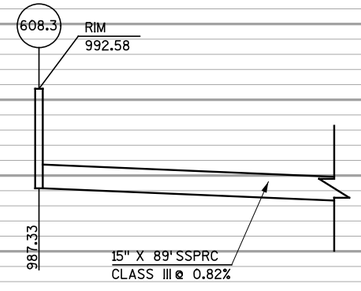
NO.	STATION	DESCRIPTION	OFFSET	ELEV.
6	1139+59	CAPPED REBAR	18.4'LT	1076.09
7	1150"A"+69	CHIS. SQR. ON CONC. BETWEEN DOORS	112.5'LT	1017.88
13	684+16	NW COR. CONCRETE PAD	52.5'RT	1010.89
14	700+72	SW COR. CONC. RR PAD	23.5'RT	962.27



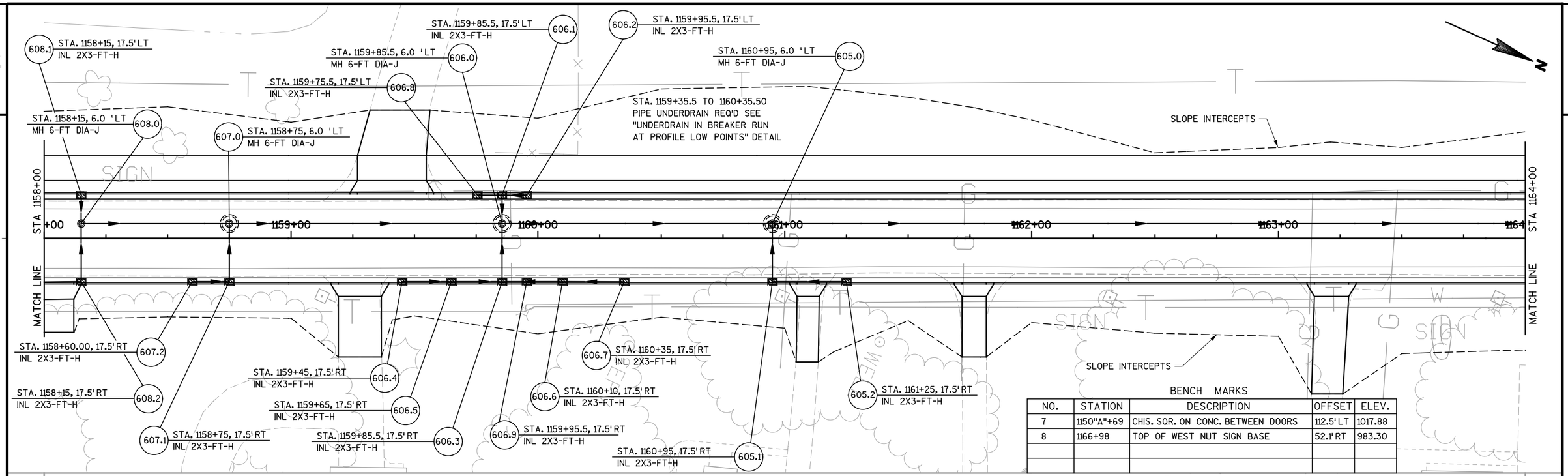


NOTE: INVERTS ARE TO THE CENTER OF STRUCTURE



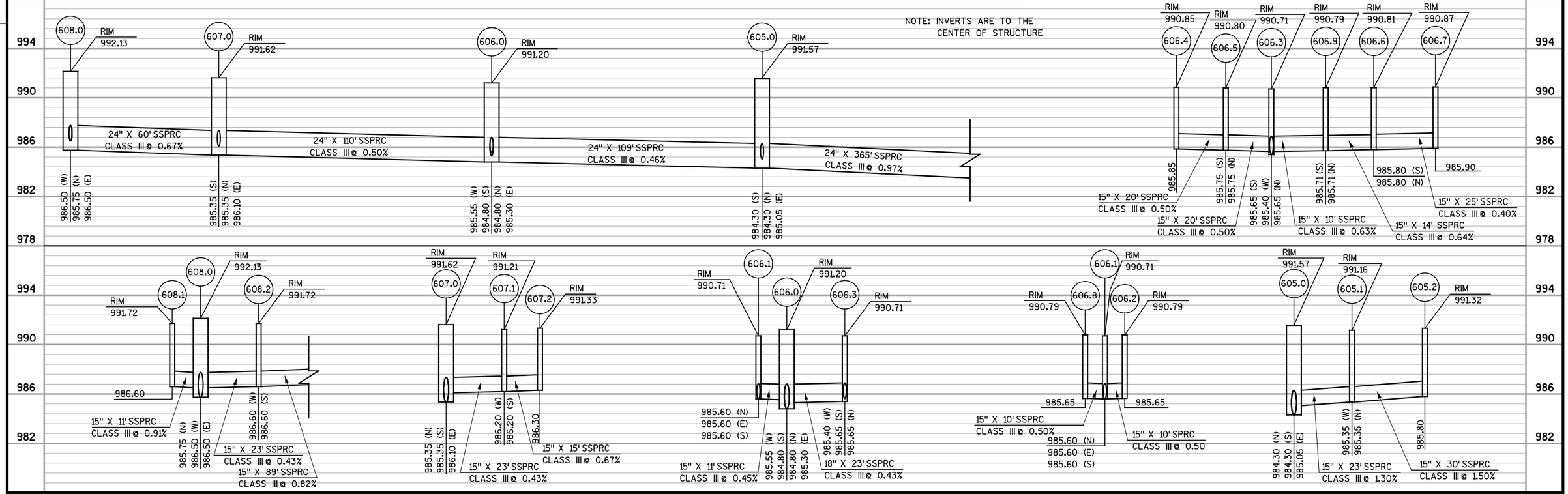


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET 83	E

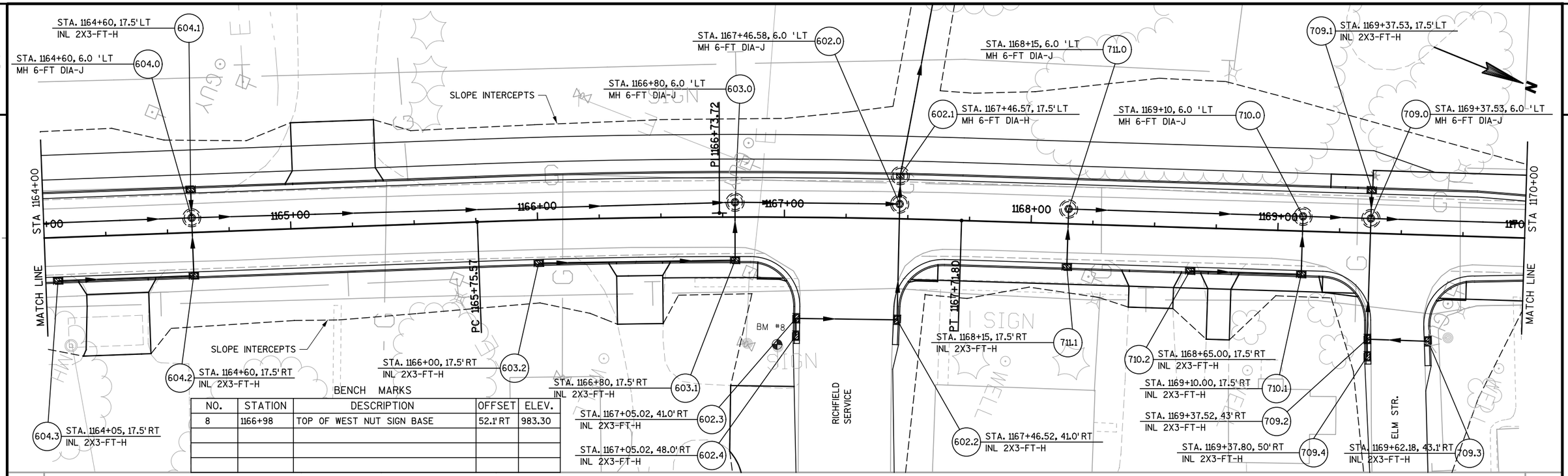


BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
7	1150"A"+69	CHIS. SQR. ON CONC. BETWEEN DOORS	112.5'LT	1017.88
8	1166+98	TOP OF WEST NUT SIGN BASE	52.1'RT	983.30



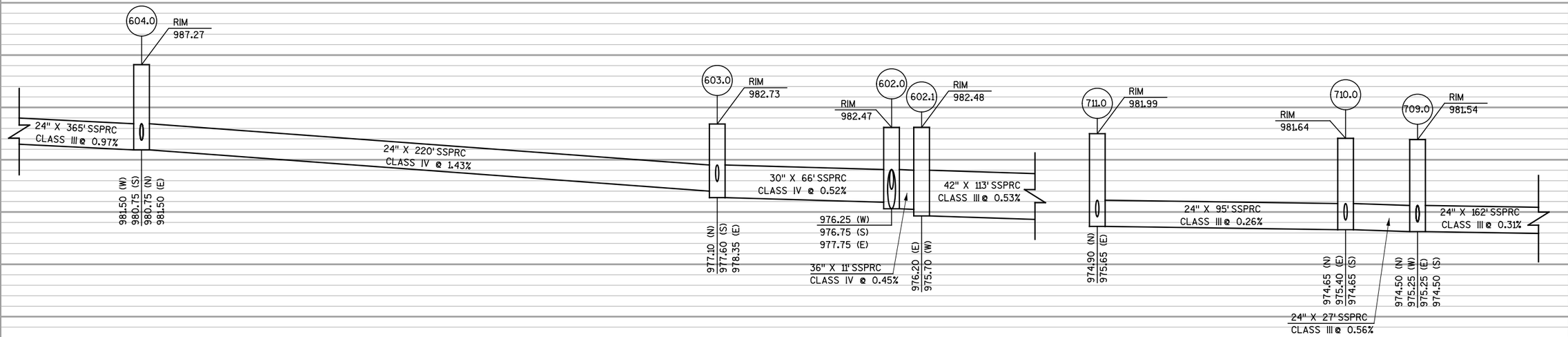
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET 84	E

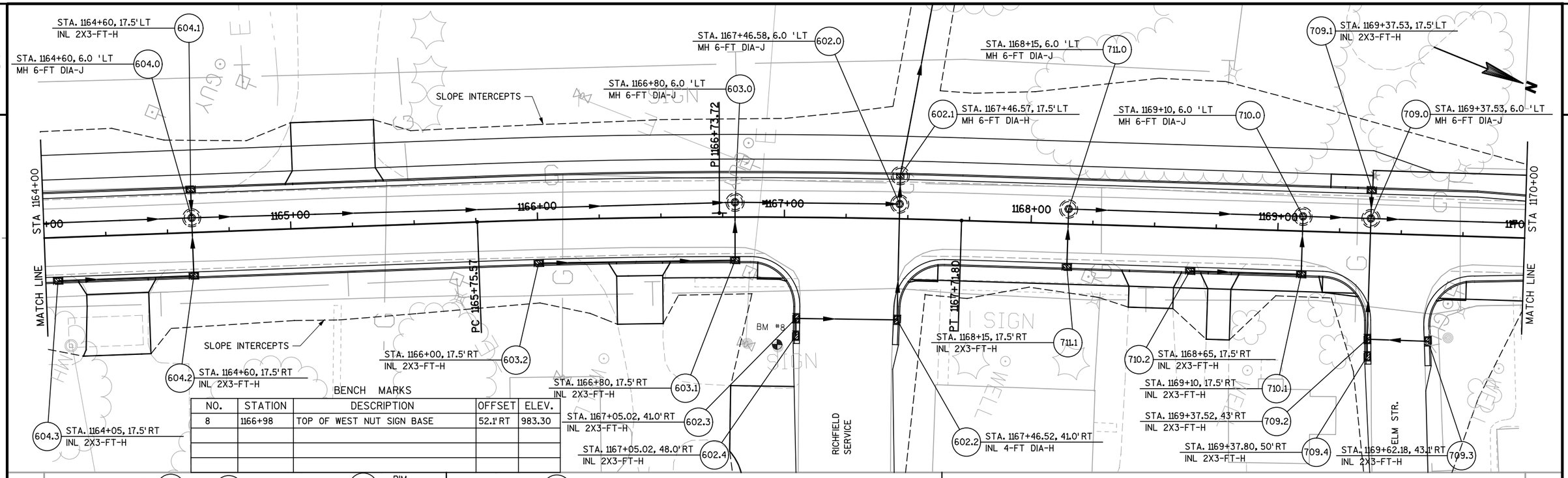


BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
8	1166+98	TOP OF WEST NUT SIGN BASE	52.1' RT	983.30

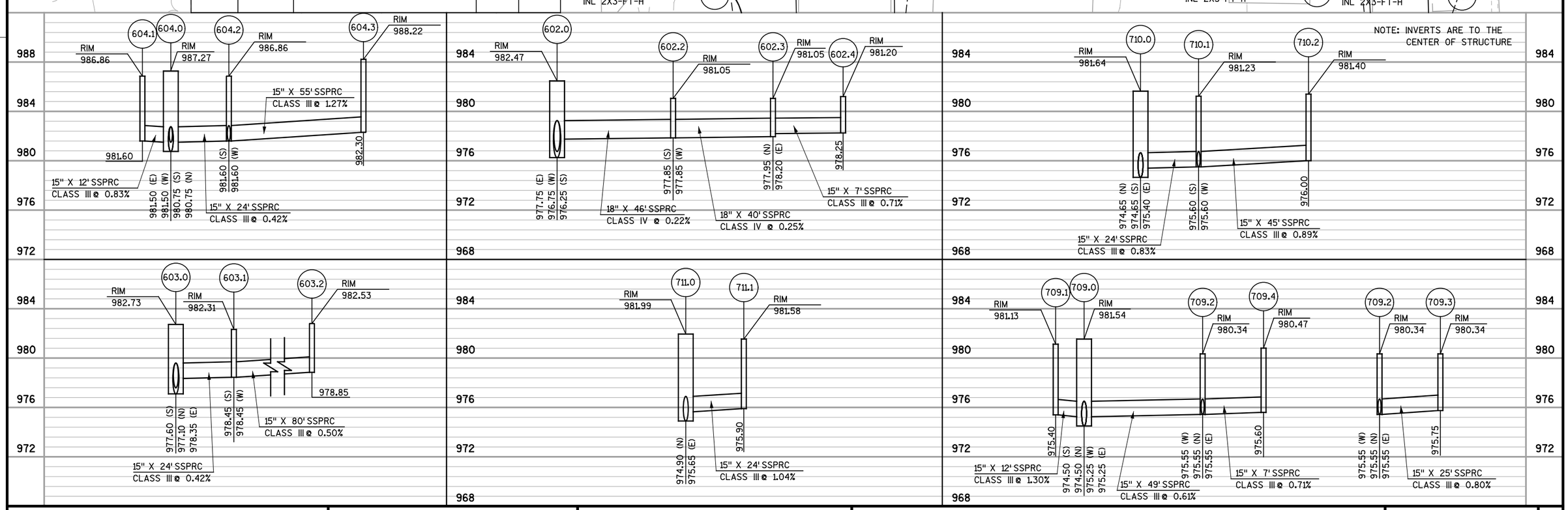
NOTE: INVERTS ARE TO THE CENTER OF STRUCTURE



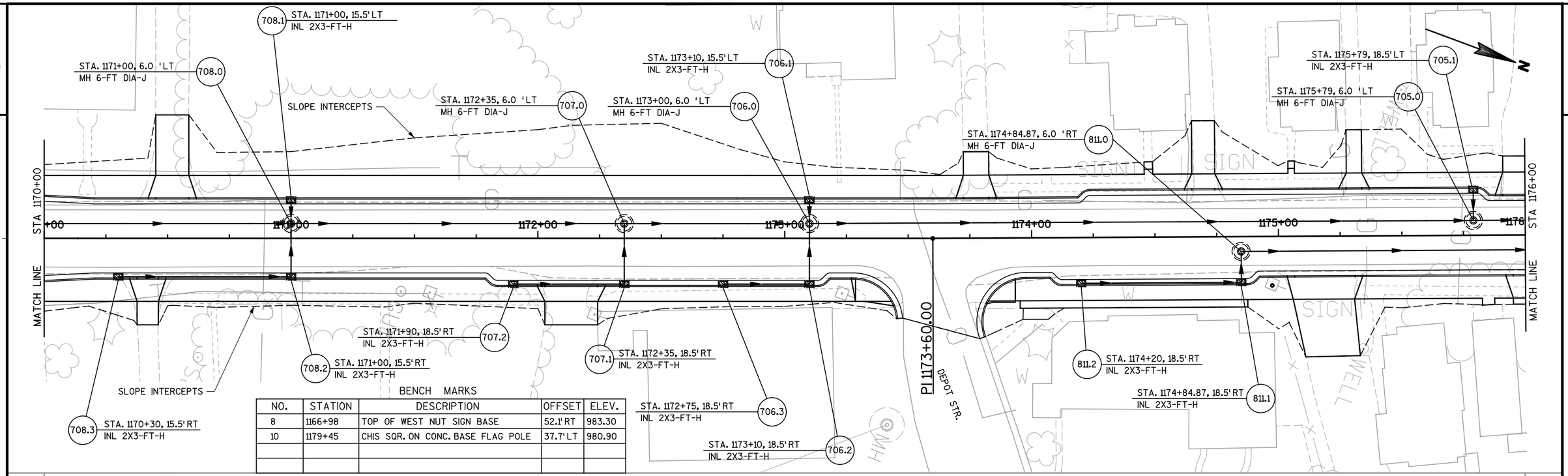


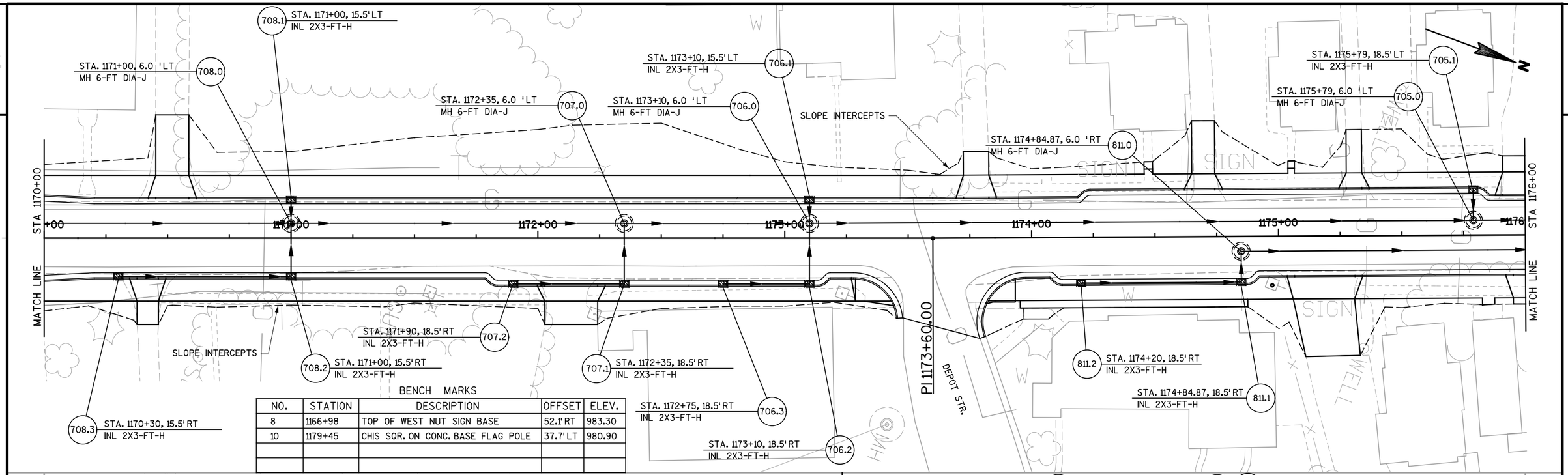
BENCH MARKS

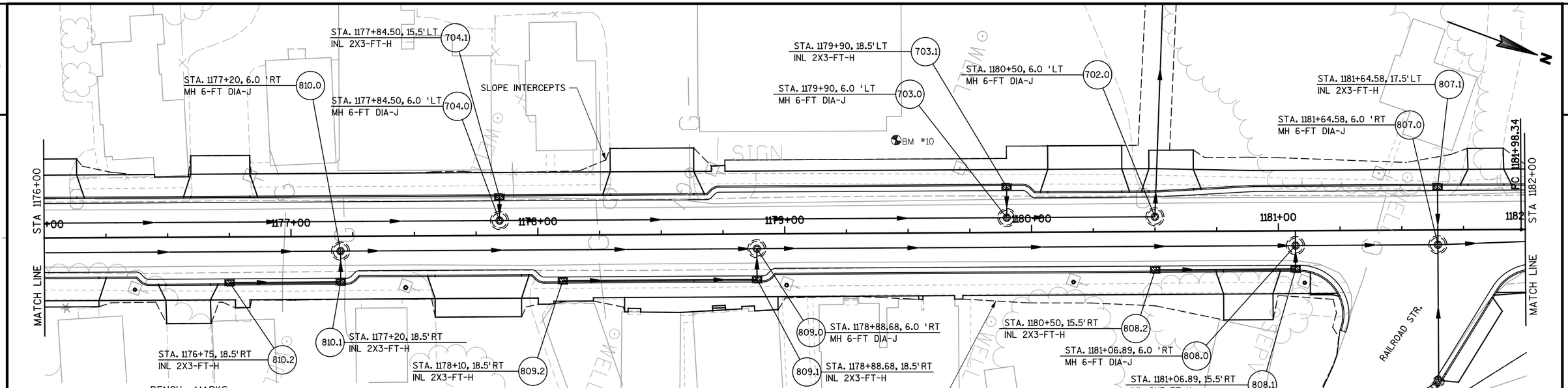
NO.	STATION	DESCRIPTION	OFFSET	ELEV.
8	1166+98	TOP OF WEST NUT SIGN BASE	52.1' RT	983.30



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET 86	E


708.1 STA. 1171+00, 15.5'LT INL 2X3-FT-H
STA. 1171+00, 6.0 'LT MH 6-FT DIA-J
708.0
SLOPE INTERCEPTS
STA. 1172+35, 6.0 'LT MH 6-FT DIA-J
707.0
STA. 1173+10, 15.5'LT INL 2X3-FT-H
706.1
STA. 1173+00, 6.0 'LT MH 6-FT DIA-J
706.0
STA. 1174+84.87, 6.0 'RT MH 6-FT DIA-J
811.0
STA. 1175+79, 18.5'LT INL 2X3-FT-H
705.1
STA. 1175+79, 6.0 'LT MH 6-FT DIA-J
705.0
STA 1170+00
STA 1176+00
MATCH LINE
1171+00
1172+00
1173+00
1174+00
1175+00
1176
STA. 1171+90, 18.5'RT INL 2X3-FT-H
707.2
708.2 STA. 1171+00, 15.5'RT INL 2X3-FT-H
707.1 STA. 1172+35, 18.5'RT INL 2X3-FT-H
SLOPE INTERCEPTS
708.3 STA. 1170+30, 15.5'RT INL 2X3-FT-H
STA. 1172+75, 18.5'RT INL 2X3-FT-H
706.3
STA. 1173+10, 18.5'RT INL 2X3-FT-H
706.2
PI 1173+60.00
DEPOT STR.
811.2 STA. 1174+20, 18.5'RT INL 2X3-FT-H
STA. 1174+84.87, 18.5'RT INL 2X3-FT-H
811.1
SIGN
SIGN
SIGN
N
W
W
W

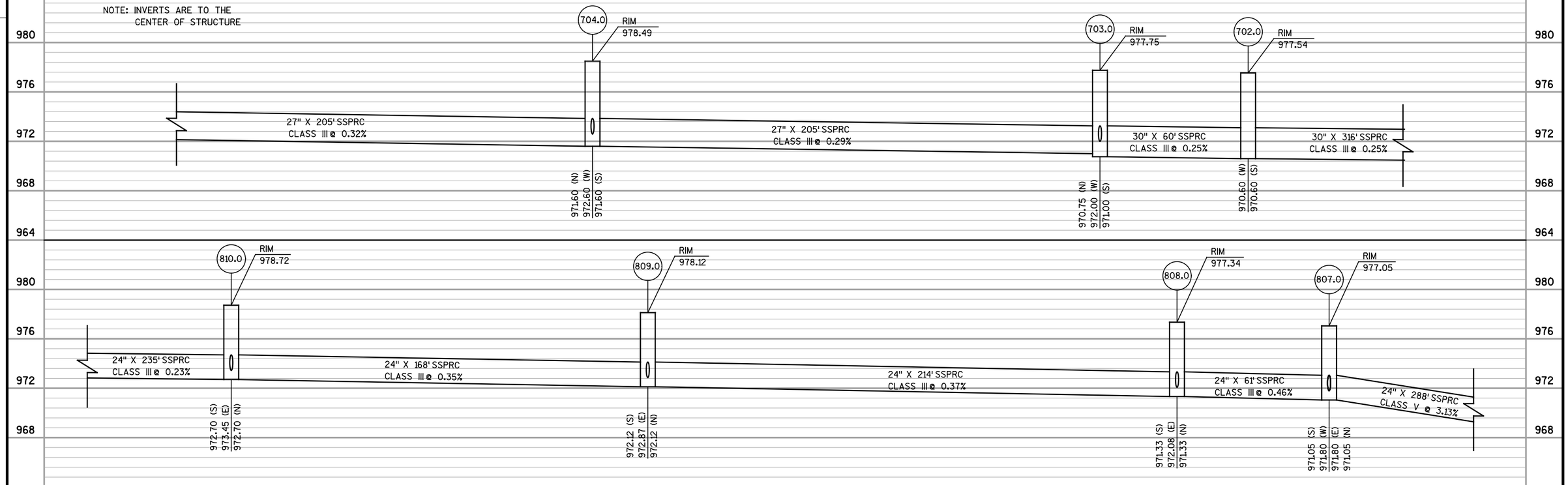

708.1
STA. 1171+00, 15.5'LT
INL 2X3-FT-H
STA. 1171+00, 6.0 'LT
MH 6-FT DIA-J
708.0
STA. 1172+35, 6.0 'LT
MH 6-FT DIA-J
707.0
STA. 1173+10, 6.0 'LT
MH 6-FT DIA-J
706.0
STA. 1173+10, 15.5'LT
INL 2X3-FT-H
706.1
SLOPE INTERCEPTS
STA. 1174+84.87, 6.0 'RT
MH 6-FT DIA-J
811.0
STA. 1175+79, 18.5'LT
INL 2X3-FT-H
705.1
STA. 1175+79, 6.0 'LT
MH 6-FT DIA-J
705.0
STA 1170+00
STA 1176+00
MATCH LINE
MATCH LINE
1171+00
1172+00
1173+00
1174+00
1175+00
1176
PI 1173+60.00
DEPOT STR.
SLOPE INTERCEPTS
708.2
STA. 1171+00, 15.5'RT
INL 2X3-FT-H
STA. 1171+90, 18.5'RT
INL 2X3-FT-H
707.2
707.1
STA. 1172+35, 18.5'RT
INL 2X3-FT-H
811.2
STA. 1174+20, 18.5'RT
INL 2X3-FT-H
STA. 1174+84.87, 18.5'RT
INL 2X3-FT-H
811.1
708.3
STA. 1170+30, 15.5'RT
INL 2X3-FT-H
STA. 1172+75, 18.5'RT
INL 2X3-FT-H
706.3
STA. 1173+10, 18.5'RT
INL 2X3-FT-H
706.2
SIGN
SIGN
SIGN



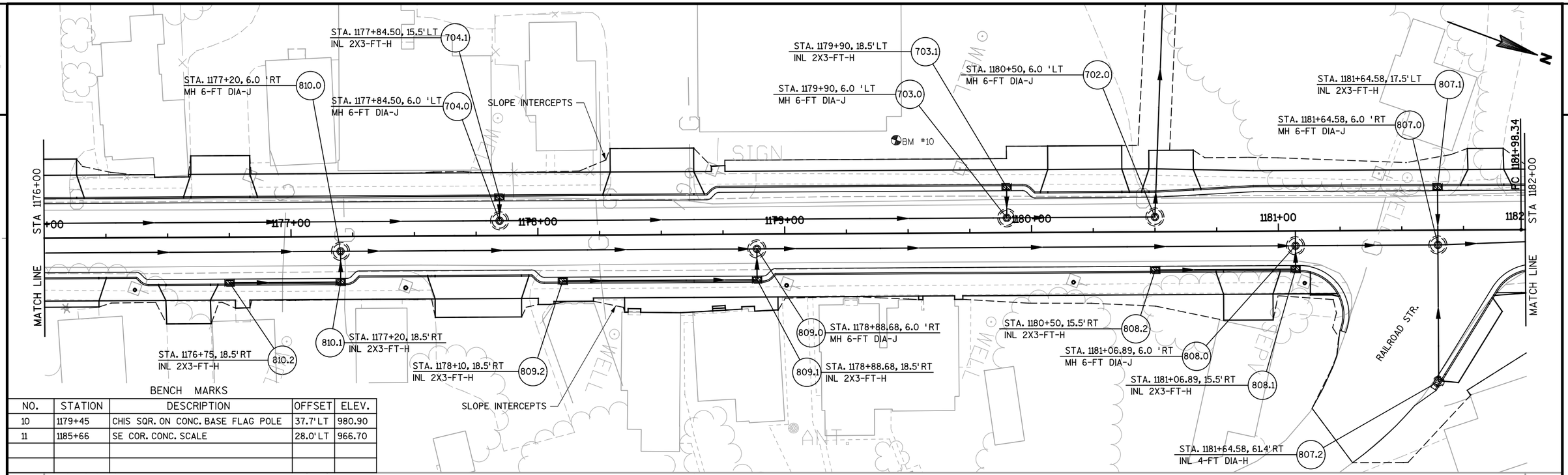
BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
10	1179+45	CHIS SQR. ON CONC. BASE FLAG POLE	37.7'LT	980.90
11	1185+66	SE COR. CONC. SCALE	28.0'LT	966.70

NOTE: INVERTS ARE TO THE CENTER OF STRUCTURE

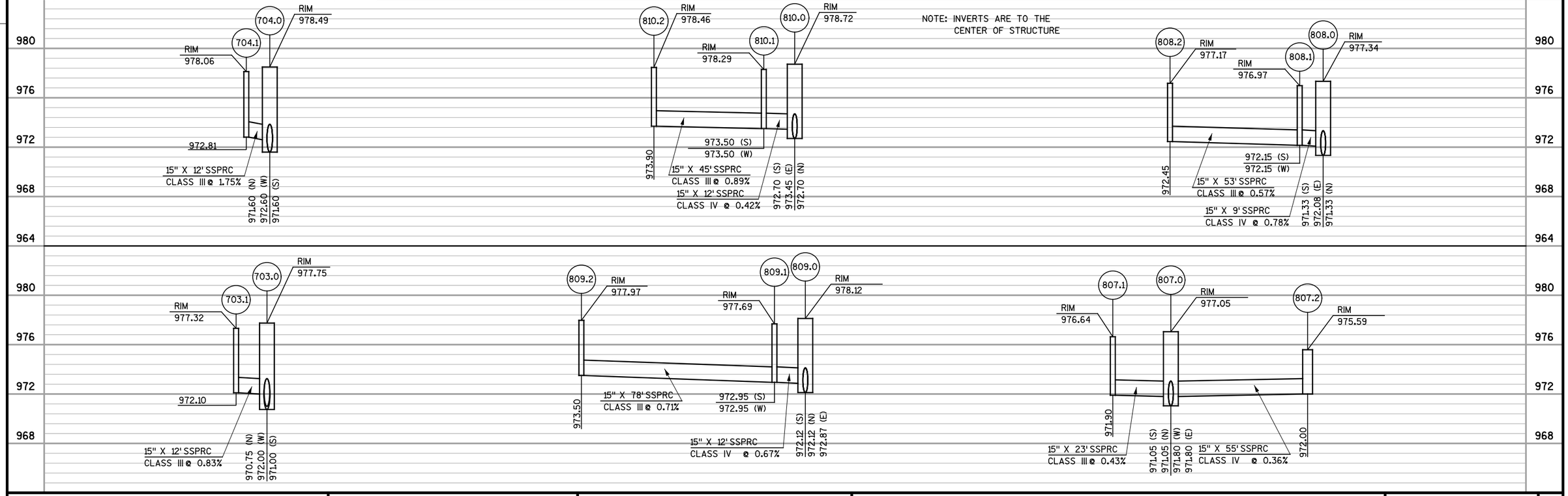


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET 89	E



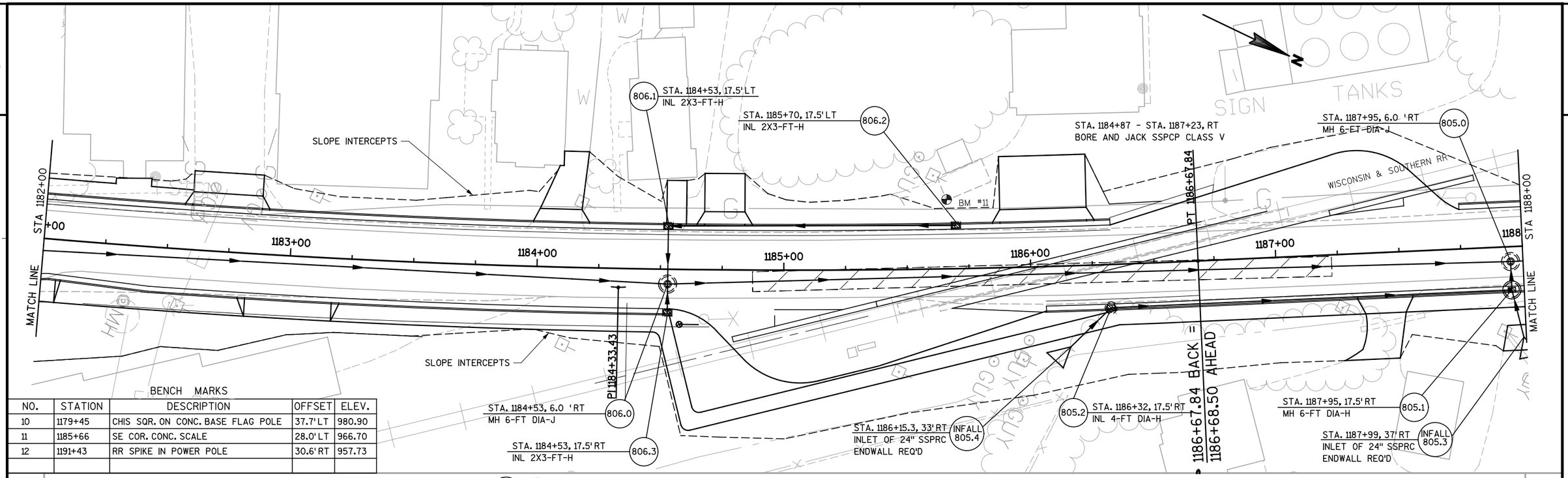
BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
10	1179+45	CHIS SQR. ON CONC. BASE FLAG POLE	37.7'LT	980.90
11	1185+66	SE COR. CONC. SCALE	28.0'LT	966.70



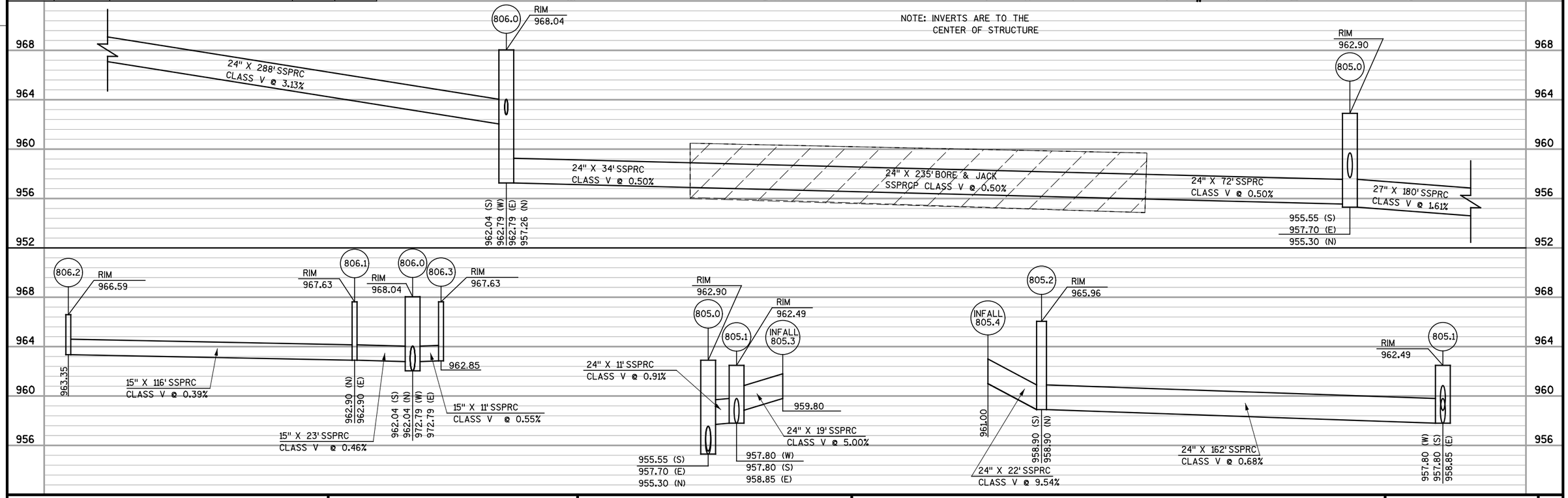
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET 90	E

2



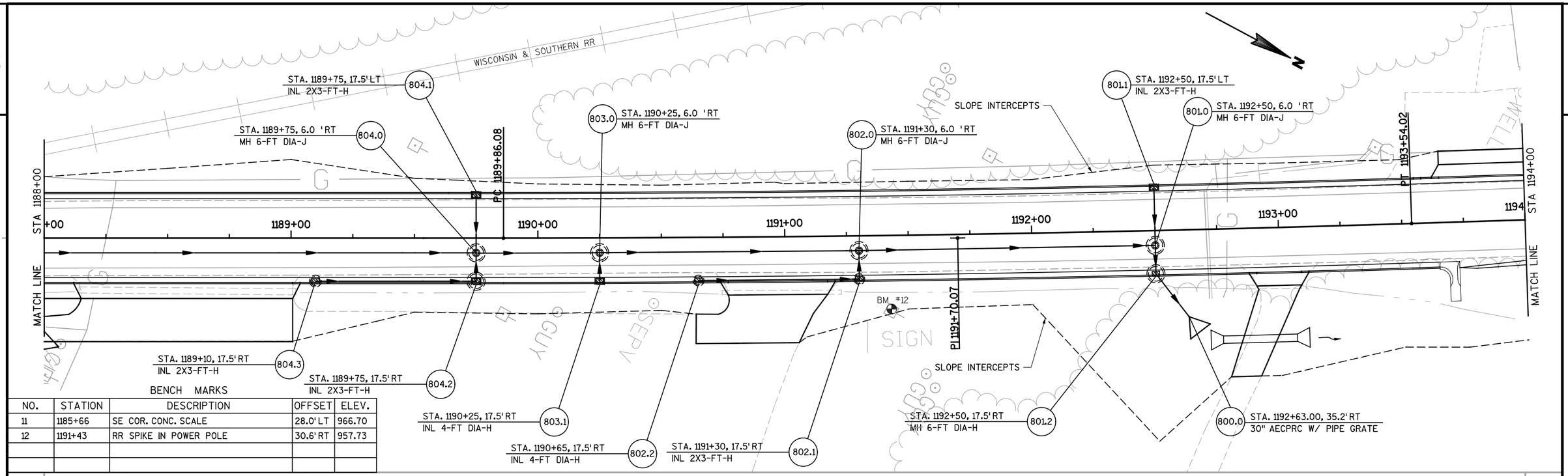
BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
10	1179+45	CHIS SQR. ON CONC. BASE FLAG POLE	37.7'LT	980.90
11	1185+66	SE COR. CONC. SCALE	28.0'LT	966.70
12	1191+43	RR SPIKE IN POWER POLE	30.6'RT	957.73



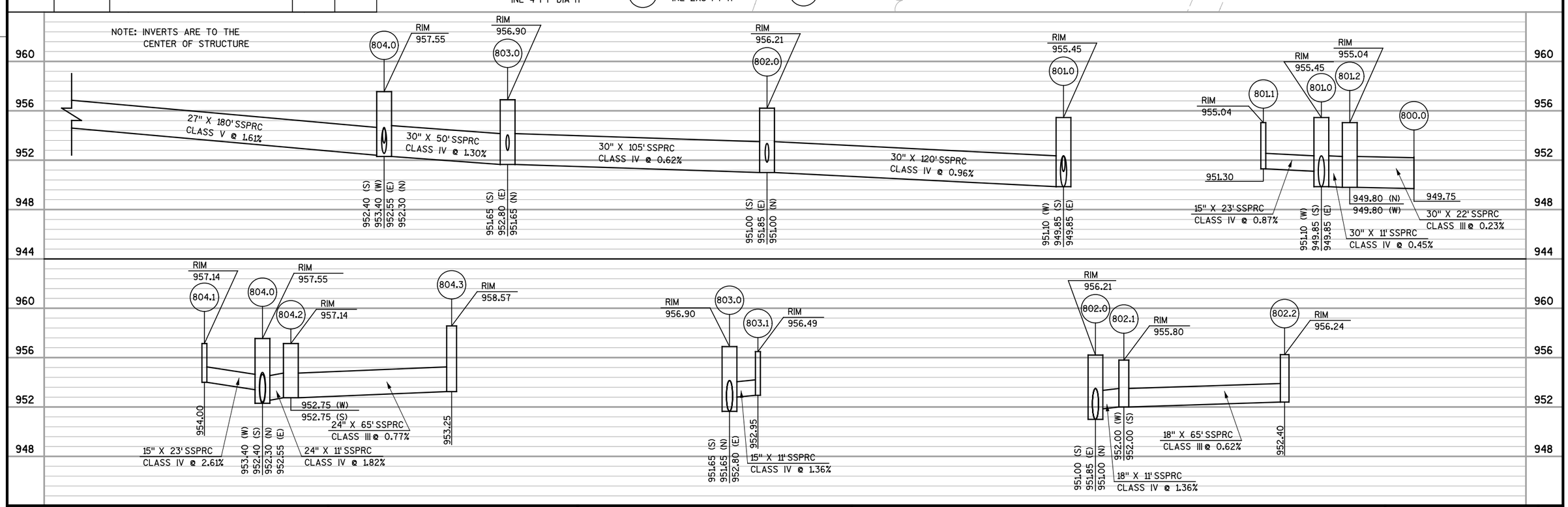
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET 91	E

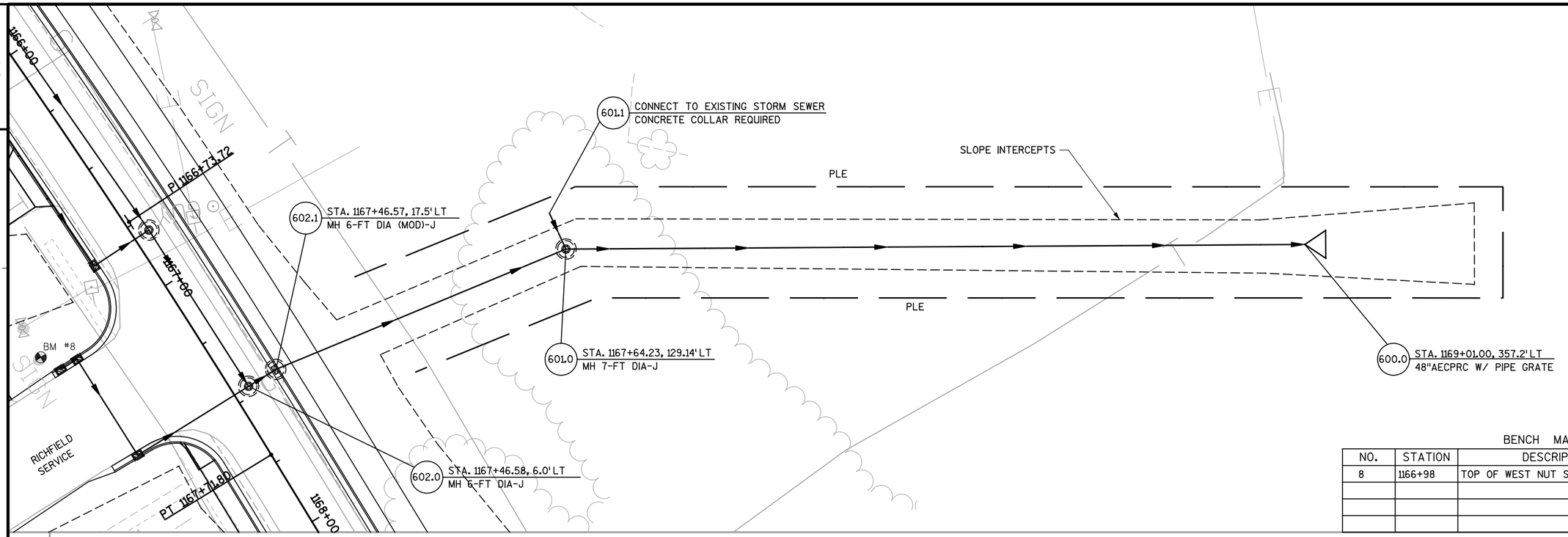
2



BENCH MARKS

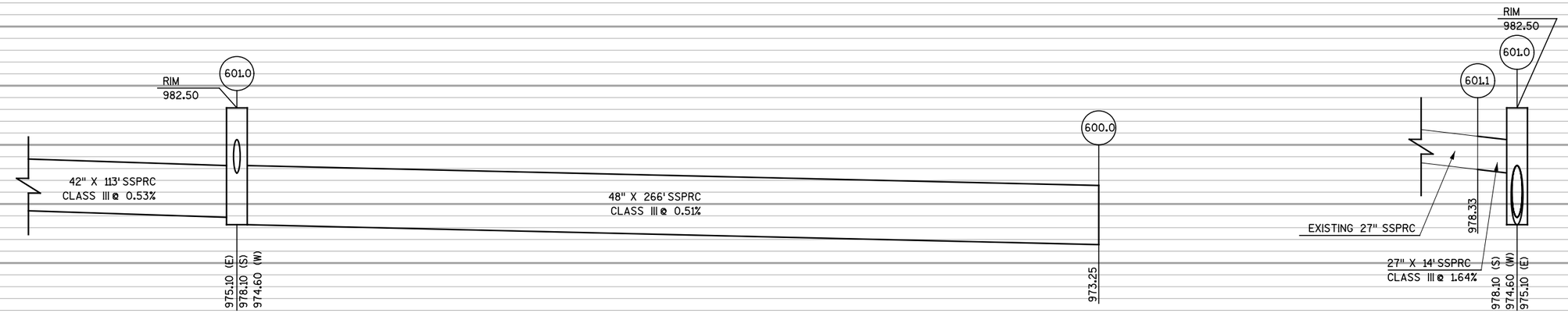
NO.	STATION	DESCRIPTION	OFFSET	ELEV.
11	1185+66	SE COR. CONC. SCALE	28.0'LT	966.70
12	1191+43	RR SPIKE IN POWER POLE	30.6'RT	957.73





BENCH MARKS

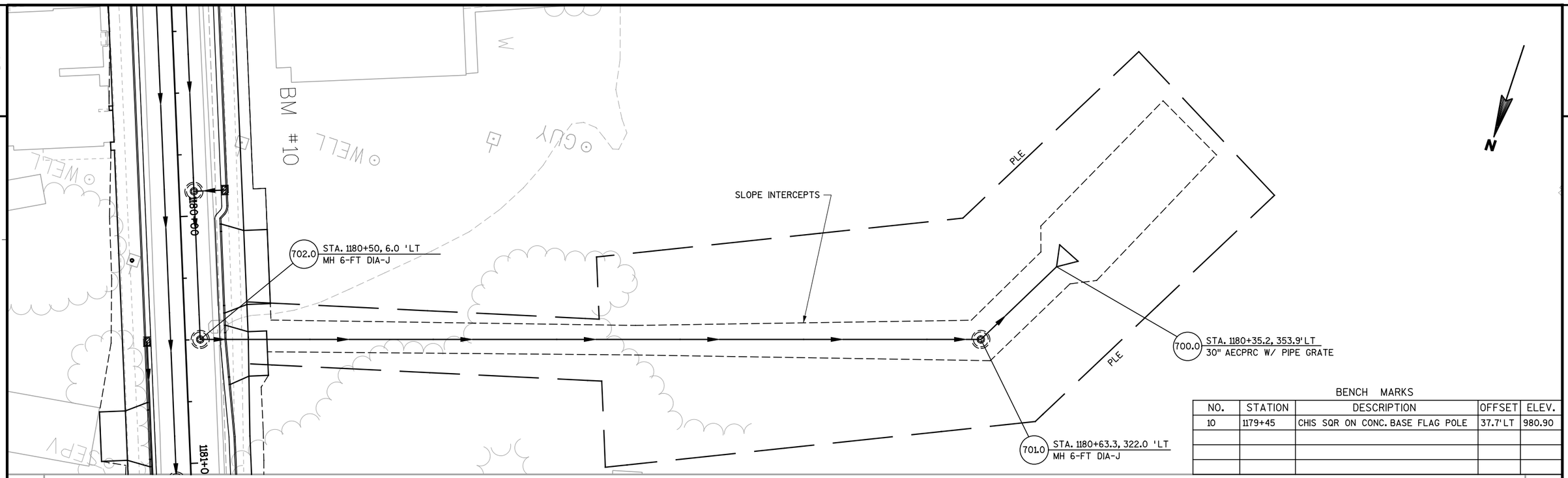
NO.	STATION	DESCRIPTION	OFFSET	ELEV.
8	1166+98	TOP OF WEST NUT SIGN BASE	52.1' RT	983.30



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET	E

FILE NAME : W:\x-Projects\RD\7140\project 1 dgn\022522_ss.dgn PLOT DATE : 10/6/2014 PLOT BY : Jim0 PLOT NAME : PLOT SCALE : 40.0000 sf / in.

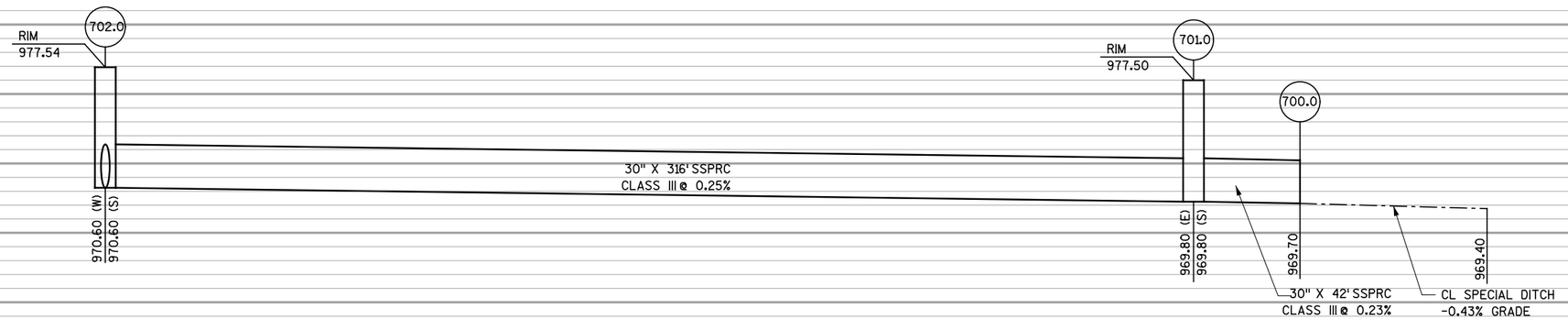
2



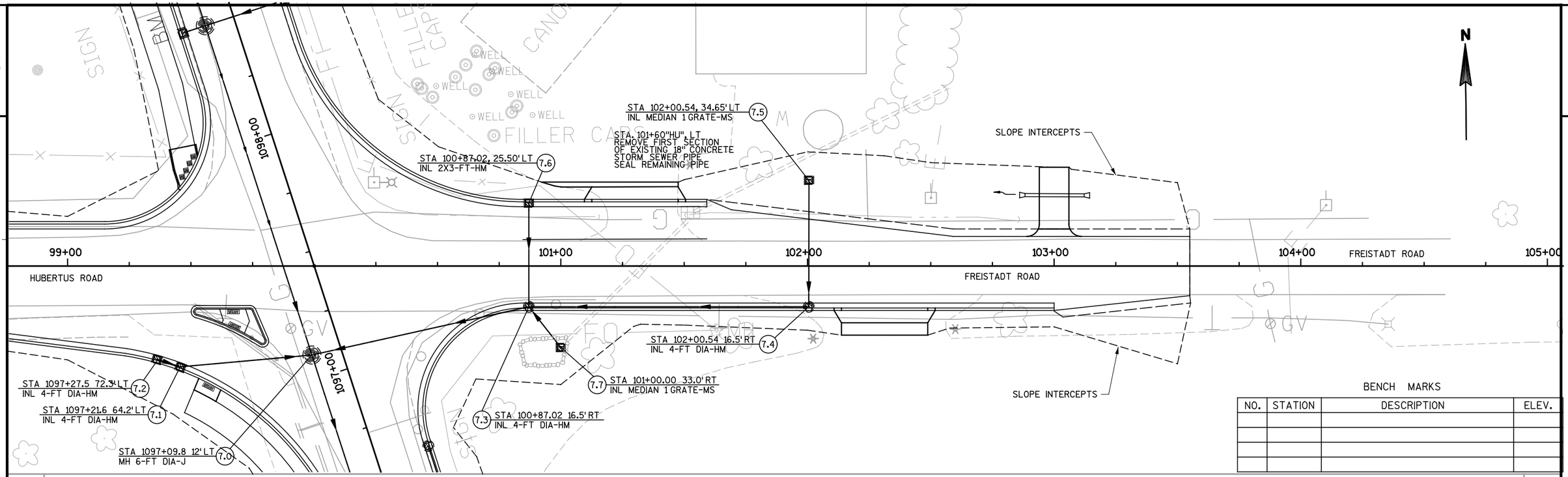
BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
10	1179+45	CHIS SQR ON CONC. BASE FLAG POLE	37.7'LT	980.90

NOTE: INVERTS ARE TO THE CENTER OF STRUCTURE



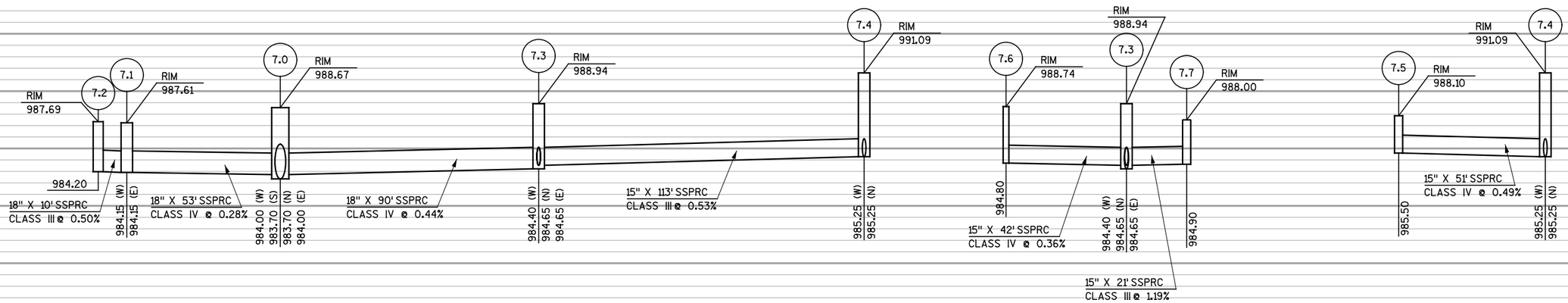
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, MAINLINE	SHEET 94	E



BENCH MARKS

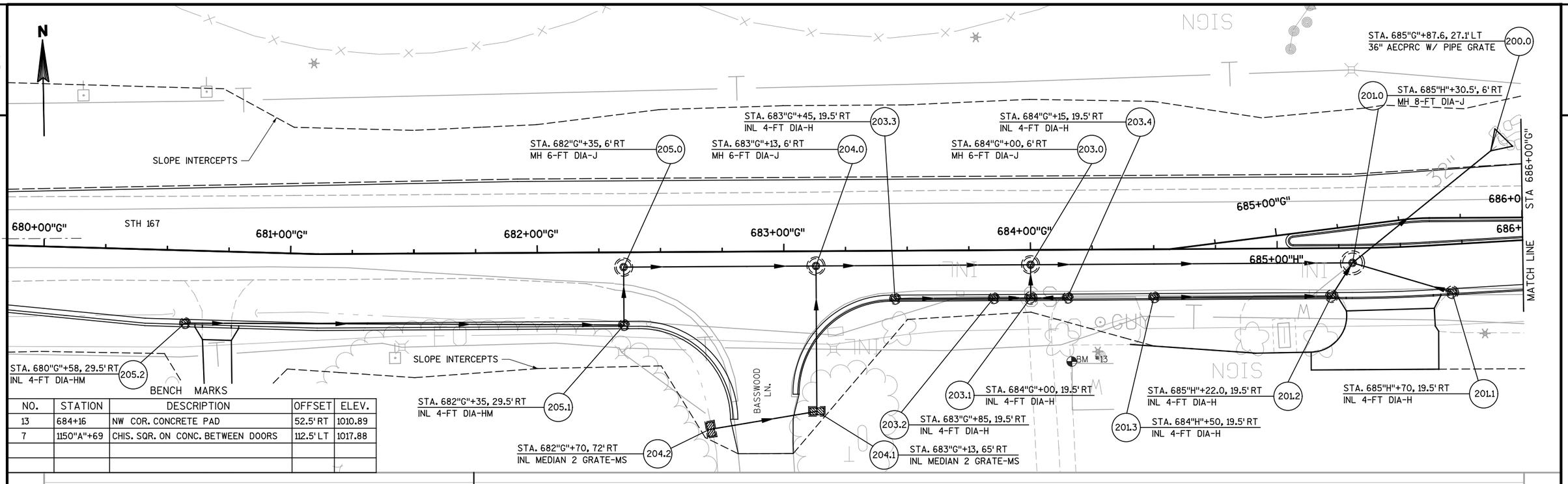
NO.	STATION	DESCRIPTION	ELEV.

NOTE: INVERTS ARE TO THE CENTER OF STRUCTURE

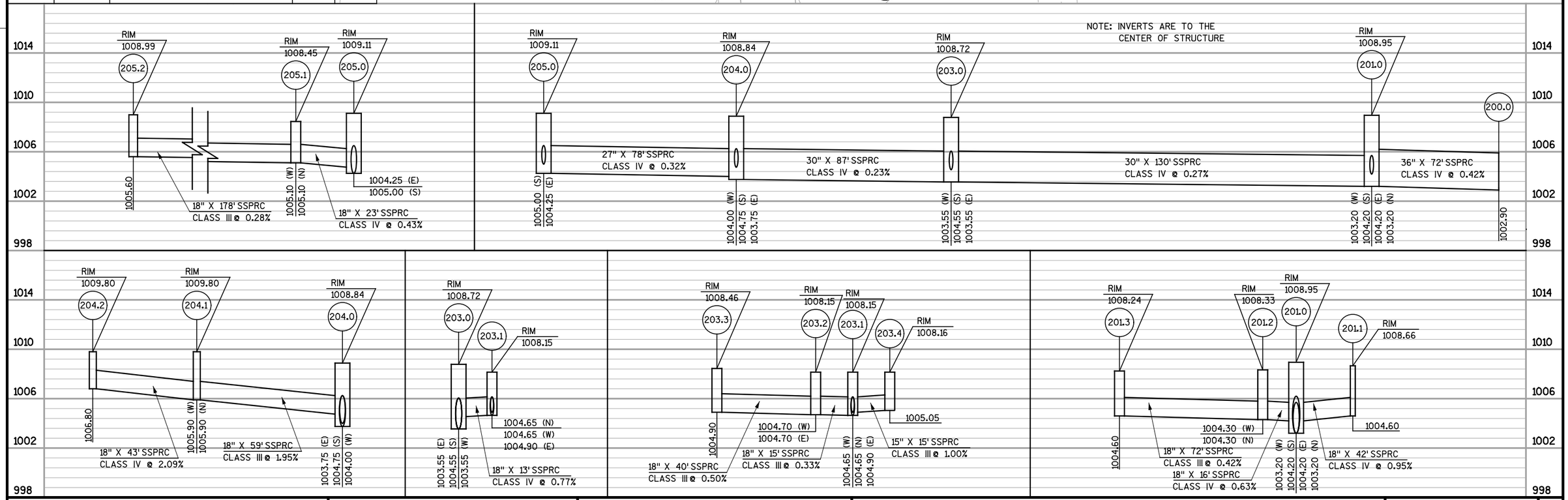


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER, FREISTADT	SHEET	E

FILE NAME : W:\x-Projects\RD\7140\project 1 dgn\022524_ss.dgn PLOT DATE : 12/10/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 40.0000 sf / in.
WISDOT/CADDS SHEET 41



NO.	STATION	DESCRIPTION	OFFSET	ELEV.
13	684+16	NW COR. CONCRETE PAD	52.5' RT	1010.89
7	1150"A"+69	CHIS. SQR. ON CONC. BETWEEN DOORS	112.5' LT	1017.88



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER STH 167	SHEET 96	E

2

N

STA. 686"G"+52.6, 34.7'LT
24" AECPRC
300.0

STH 175

152+00

PT 152+18.75

STA 686+00"G"

687+00"G"

687+00

687+00"H"

STH 167

MATCH LINE

688+00

689+00"D"

689+00

689+00"C"

690+00"D"

690+00"C"

690+00

691+00"D"

691+00"C"

691+00

STH 167

692+

692+00"C"

MATCH LINE

106.2 STA. 688+16.59 , 37.84'LT
INL 4-FT DIA-T

106.1 STA. 688+24.51 , 36.07'LT
INL 4-FT DIA-T

STA. 690"D"+08.76, 0.7'RT
INL 3-FT DIA-Z
105.2

STA. 690"C"+09.41, 0.7 'LT
INL 3-FT DIA-Z
105.1

STA. 690"D"+75.8, 17.6'LT
INL 2X3-FT-H
104.1

SLOPE INTERCEPTS

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
7	1150"A"+69	CHIS. SQR. ON CONC. BETWEEN DOORS	112.5'LT	1017.88
13	684+16	NW COR. CONCRETE PAD	52.5'RT	1010.89
14	700+72	SW COR. CONC. RR PAD	23.5'RT	962.27

STA. 686"H"+54.2, 19.4'RT
INL 4-FT DIA-H
301.1

STA. 687"H"+34.96, 19.18'RT
INL 4-FT DIA-H
301.3

STA. 1152+08.25, 54'LT
CONNECT TO EXISTING 8" PVC
302.1

STA. 1152+10.33, 44.2'LT
MH 4-FT DIA-J
302.0

STA. 687"H"+00, 17.54'RT
INL 4-FT DIA-H
301.2

STA. 1151"B"+59.26, 9.9'LT
INL 4-FT DIA-Z
107.1

107.2 STA. 1151+75.00, 25.4'LT
INL 4-FT DIA-H

106.3 STA. 688"C"+77.41, 26.85'RT
INL 2X3-FT-H

106.0 STA. 688"C"+71.85, 6.95'RT
MH 6-FT DIA-J

107.0 STA. 1151"B"+59.36, 6.0'RT
MH 6-FT DIA-J

STA. 690"C"+10.99, 11.4'RT
MH 6-FT DIA-J
105.0

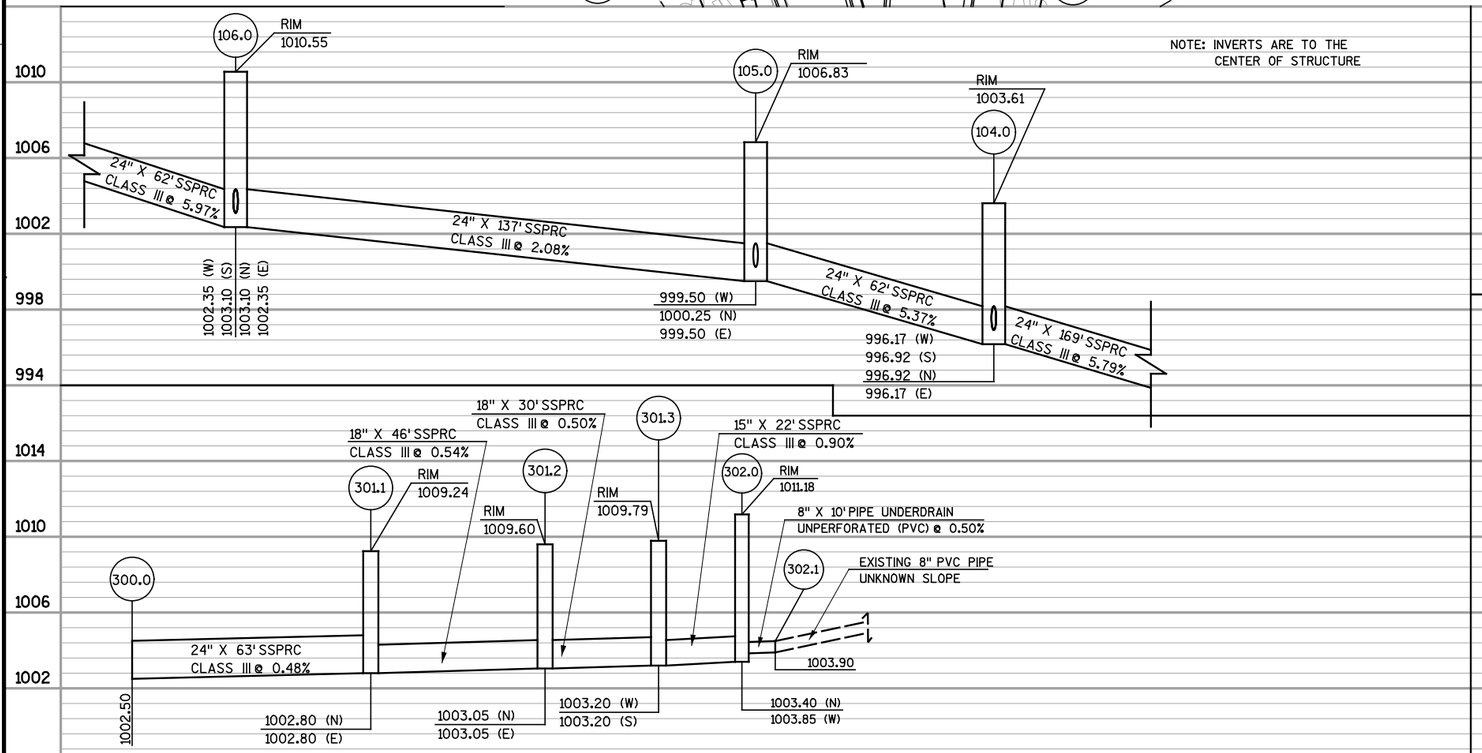
STA. 690"C"+71.41, 43.8'RT
INL 2X3-FT-H
104.2

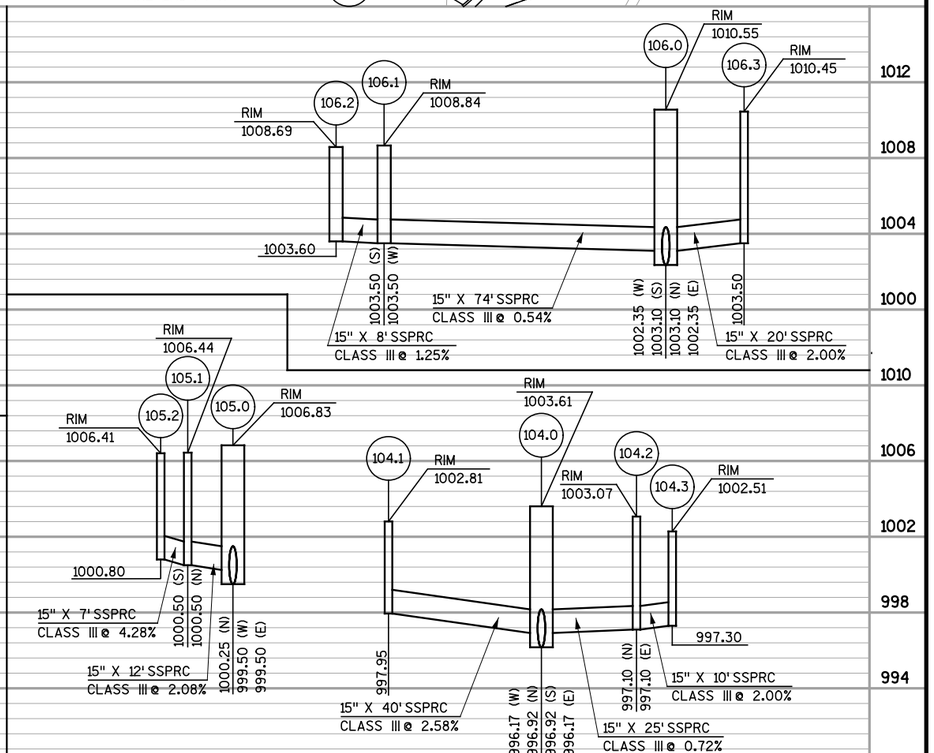
SLOPE INTERCEPTS

STA. 690"C"+81.30, 44.9'RT
INL 2X3-FT-H
104.3

104.0 STA. 690"C"+74.22, 18.8'RT
MH 6-FT DIA-J

NOTE: INVERTS ARE TO THE CENTER OF STRUCTURE



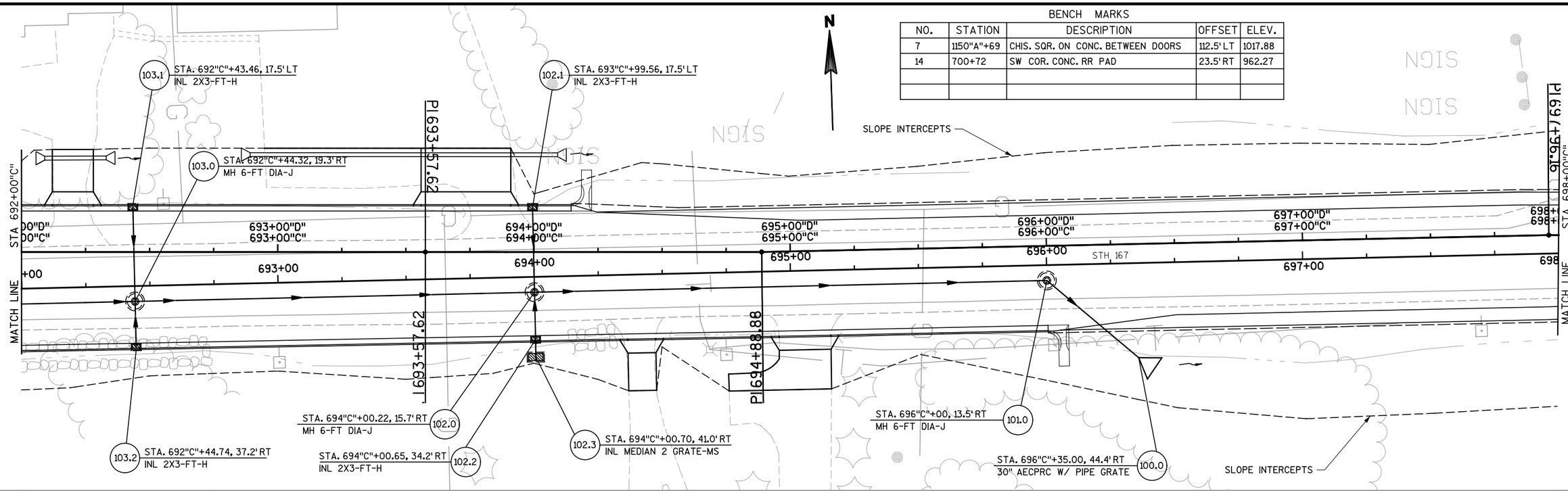


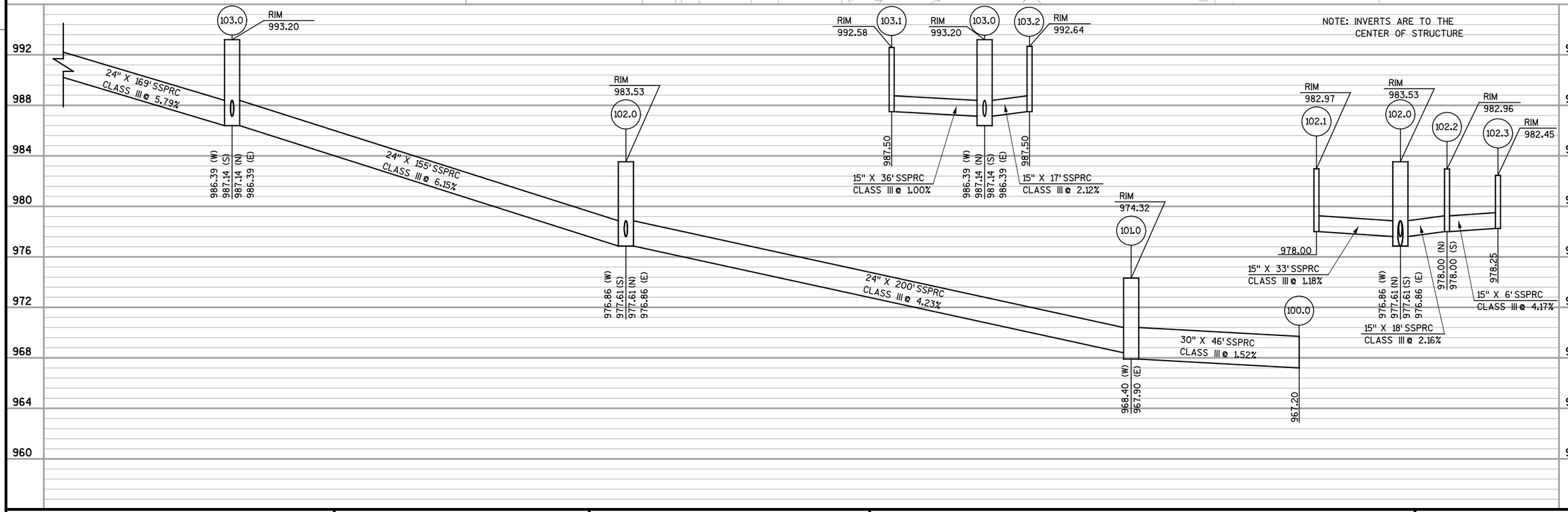
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER STH 167	SHEET 97	E

2

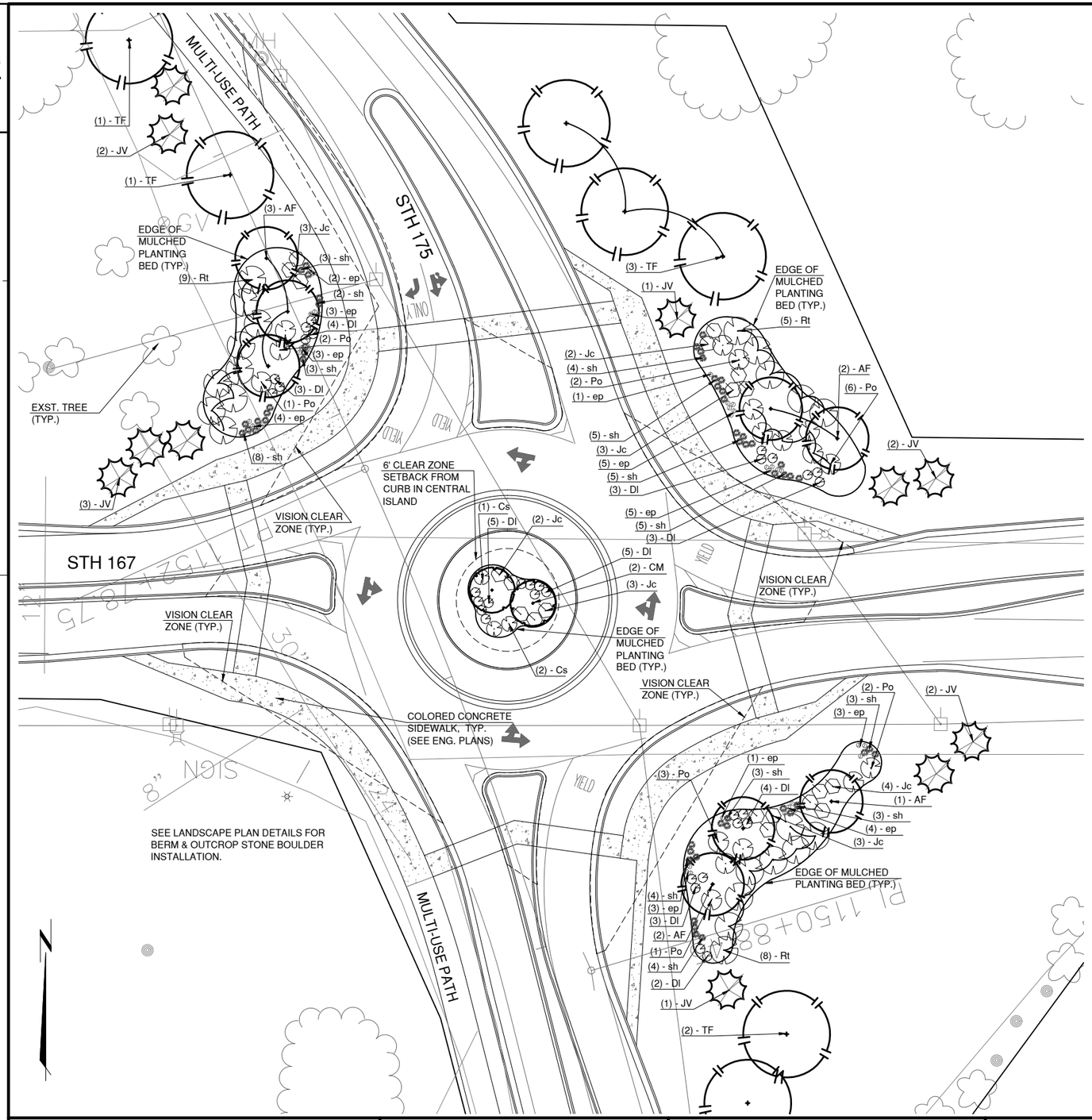
BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
7	1150"A"+69	CHIS. SQR. ON CONC. BETWEEN DOORS	112.5'LT	1017.88
14	700+72	SW COR. CONC. RR PAD	23.5'RT	962.27





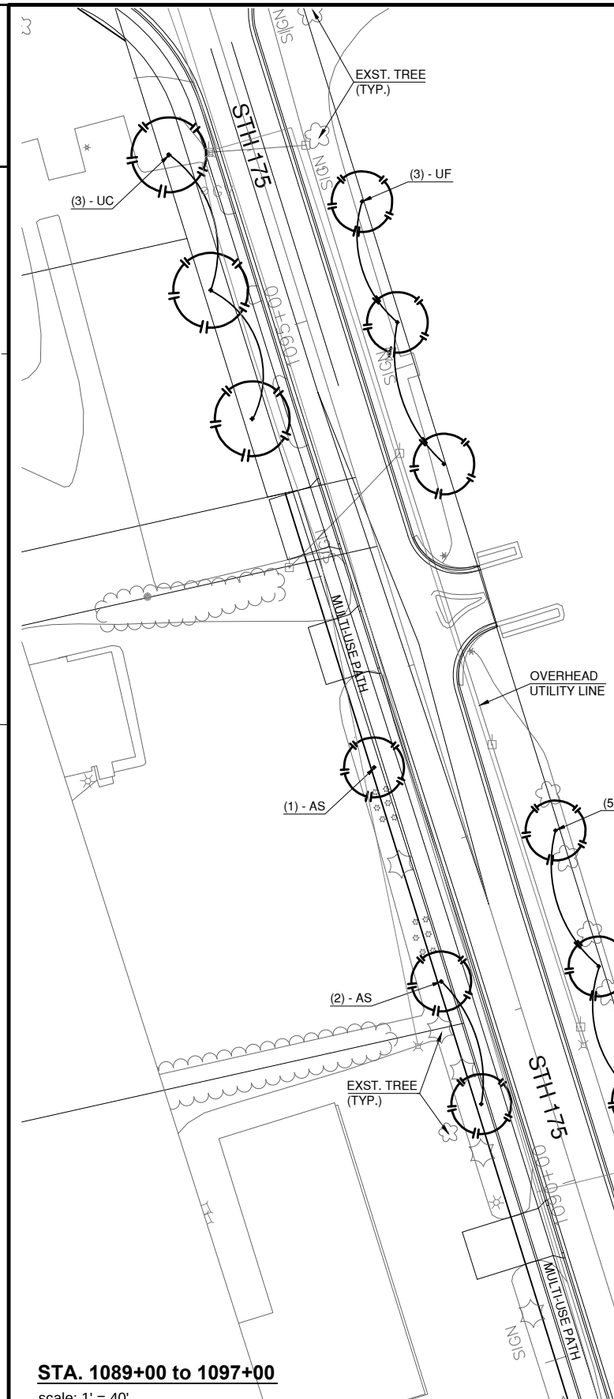
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STORM SEWER STH 167	SHEET 98	E



LEGEND:

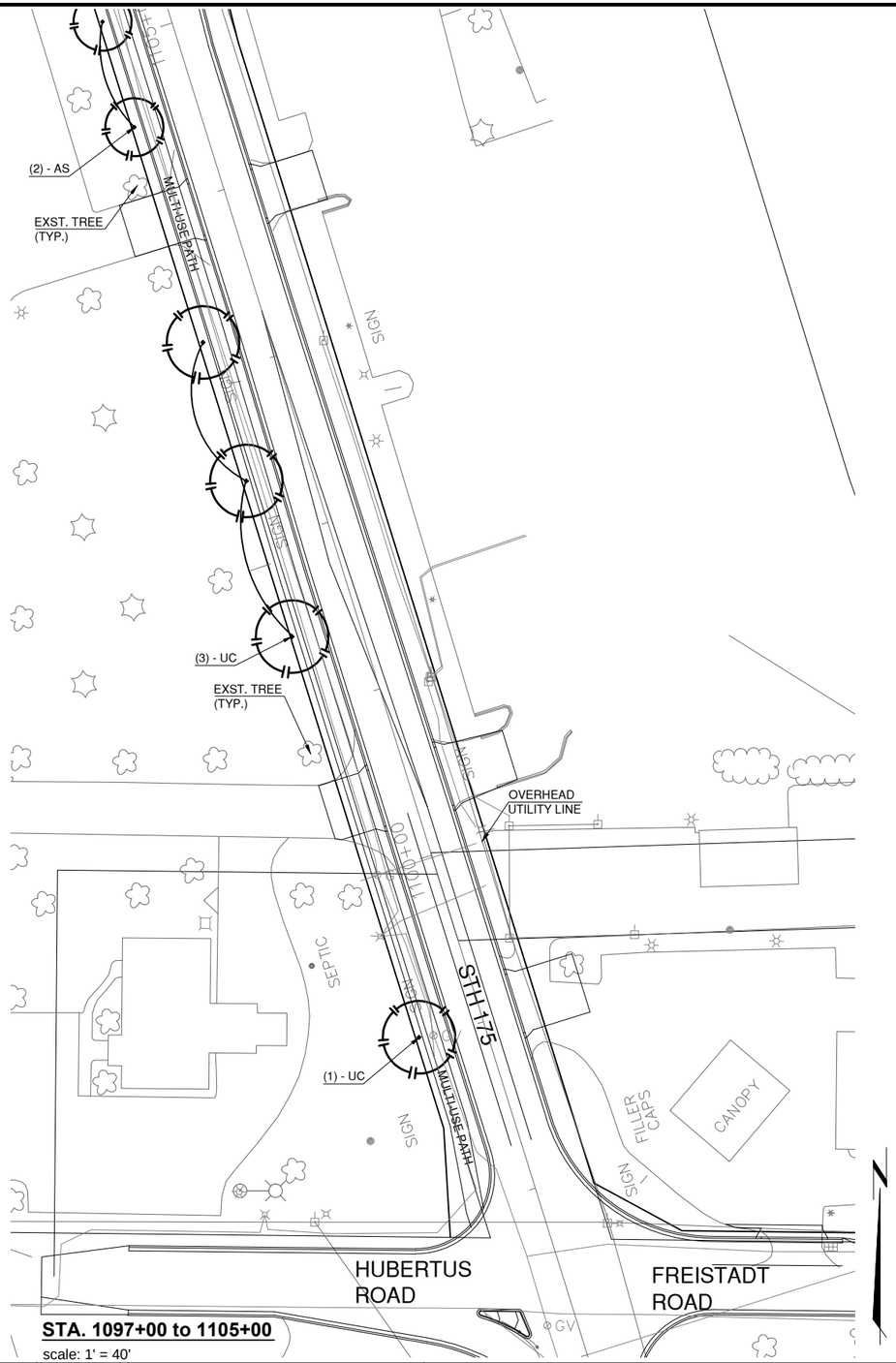
Symbol	Common Name
ITEM 632.0101 TREES:	
AF	Celebration Maple
AS	Sienna Maple
CM	Golden Glory Corneliancherry Dogwood
JV	Canaert Juniper
TF	Glenleven Linden
UC	Accolade Elm
UF	Frontier Elm
ITEM 632.0201 SHRUBS:	
Cs	Isanti Dogwood
Dl	Dwarf Bush-honeysuckle
Jc	Nicks Compact Juniper
Po	Diablo Ninebark
Rt	Tiger Eyes Cutleaf Staghorn Sumac
ITEM 632.0301 VINES:	
ep	Purple Coneflower
sh	Prairie Dropseed

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STH 175/167 ROUNDABOUT LANDSCAPE PLAN	SHEET	E



STA. 1089+00 to 1097+00

scale: 1' = 40'



STA. 1097+00 to 1105+00

scale: 1' = 40'

LEGEND:

Symbol	Common Name
ITEM 632.0101 TREES:	
AF	Celebration Maple
AS	Sienna Maple
CM	Golden Glory Corneliancherry Dogwood
JV	Canaert Juniper
TF	Glenleven Linden
UC	Accolade Elm
UF	Frontier Elm
ITEM 632.0201 SHRUBS:	
Cs	Isanti Dogwood
Dl	Dwarf Bush-honeysuckle
Jc	Nicks Compact Juniper
Po	Diablo Ninebark
Rt	Tiger Eyes Cutleaf Staghorn Sumac
ITEM 632.0301 VINES:	
ep	Purple Coneflower
sh	Prairie Dropseed

PROJECT NO: 3360–09–70	HWY: STH 175	COUNTY: WASHINGTON	HUBERTUS RD/FREISTADT RD INTERSECTION TREE PLANTING	SHEET	E

FILE NAME : 023102_pl PLOT DATE : 08/25/2014 PLOT BY : JAO PLOT NAME : 023102_pl PLOT SCALE : 1" = 40'

PLANT DATA TABLE (STATION 1089 to 1105 & 1150 to 1155):

Symbol	Botanical Name	Common Name	ANZI Z60.1 -2004 Type	Mature Height	Size when Planted	Root Zone Mode	Min. Ball or Pot Diameter	Min. Ball or Pot Depth	Min. Root Spread	Min. Plant Hole Diameter	Plant Hole Depth	Brace or Guy	Fert. Units Req'd.	Rodent. Protection Req'd.	Mulch Ring Diameter	Planting Detail
ITEM 632.0101 TREES:																
AF	Acer x freemanii 'Celzam' PP7279	Celebration Maple	1	50'	2.5" cal.	B.B.	28"	16"	-	84"	16"	no	0	none	84"	tree
AS	Acer x freemanii 'Sienna' PP11322	Sienna Maple	1	50'	2.5" cal.	B.B.	28"	16"	-	84"	16"	no	0	none	84"	tree
CM	Cornus mas 'Golden Glory'	Golden Glory Corneliancherry Dogwood	4	25'	5' multi -stem	B.B.	16"	10"	-	48"	10"	no	0	none	48"	tree
JV	Juniperus virginiana 'Canaerti'	Canaert Juniper	4	25'	5' ht.	B.B.	22"	13"	-	39"	13"	no	0	none	39"	tree
TF	Tilia X flavens 'Glenleven'	Glenleven Linden	1	50'	2.0" cal.	B.B.	24"	14"	-	72"	14"	no	0	none	72"	tree
UC	Ulmus carpinifolia 'Accolade'	Accolode Elm	1	70'	2.5" cal.	B.B.	28"	16"	-	84"	16"	no	0	none	84"	tree
UF	Ulmus 'Frontier'	Frontier Elm	1	45'	1.75" cal.	B.B.	22"	13"	-	66"	13"	no	0	none	66"	tree
ITEM 632.0201 SHRUBS:																
Cs	Cornus sericea 'Isanti'	Isanti Dogwood	3	6'	30" min.	#7 cont. or B.B	-	-	-	-	-	-	0	none	bed	shrub
Dl	Diervilla lonicera	Dwarf Bush-honeysuckle	3	4'	12" min.	#2 cont.	-	-	-	-	-	-	0	none	bed	shrub
Jc	Juniperus chinensis 'Nicks Compact'	Nicks Compact Juniper	2	3'	24" min.	#10 cont. or B.B.	-	-	-	-	-	-	0	none	bed	shrub
Po	Physocarpus opulifolius 'Monlo' PP11211	Diablo Ninebark	3	8'	24" min.	#5 cont.	-	-	-	-	-	-	0	none	bed	shrub
Rt	Rhus typhina 'Bailtiger' PPAF	Tiger Eyes Cutleaf Staghorn Sumac	3	12'	24" min.	# 5 cont.	-	-	-	-	-	-	0	none	bed	shrub
ITEM 632.0301 VINES:																
ep	Echinacea purpurea	Purple Coneflower	-	-	-	#1 cont.	-	-	-	-	-	-	0	none	bed.	vine
sh	Sporobolus heterolepsis	Prairie Dropseed	-	-	-	#1 cont.	-	-	-	-	-	-	0	none	bed	vine

B.B.: balled & burlapped cont.: container grown

GENERAL NOTES:

1. The contractor is to review all site engineering documents prior to installation. Any conflicts must be reported to the engineer. These landscape drawings are for the installation of plant materials unless otherwise stated.

2. Stake and layout all plant locations for approval of landscape architect, engineer or owner's representative prior to installation.

3. The contractor is responsible for all permits, fees and licenses necessary for the installation of this plan.

4. Any deviations or modifications to this plan require approval of the landscape architect or engineer.

5. Verify all existing utilities including irrigation lines prior to digging. Consult Digger's Hotline.

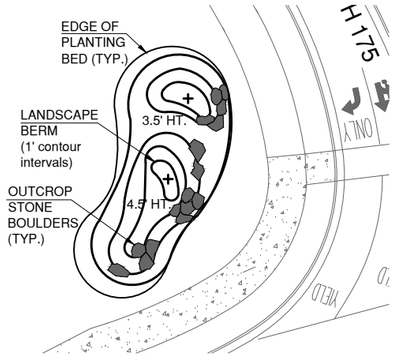
6. All planting beds or individual trees planted singly are to receive 3" shredded hardwood mulch.

7. All plant material is subject to availability and proper seasonal planting procedures.

8. Amended topsoil in perennial planting beds to consist of topsoil mixed with two inches of organic compost roto-tilled into the top six inches of topsoil. Remove all rocks or foreign matter over 1" in diameter. Refer to Wisconsin Department of Natural Resources Specification S100 for compost requirements.

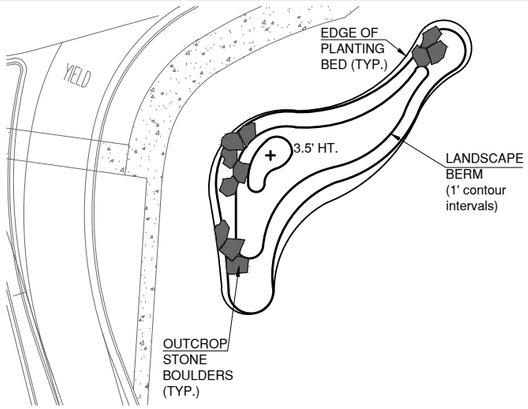
9. Refer to engineering plans and specifications for turf sod or seeding applications.

10. Refer to engineering plans and specifications for colored concrete sidewalks.



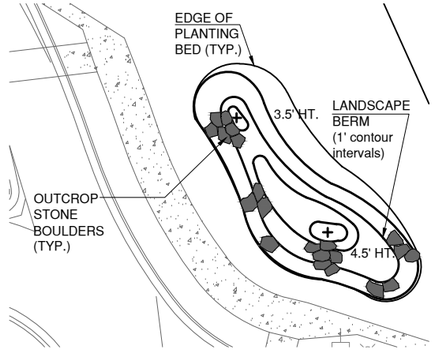
NW CORNER BERM - LAYOUT

scale: 1' = 20'



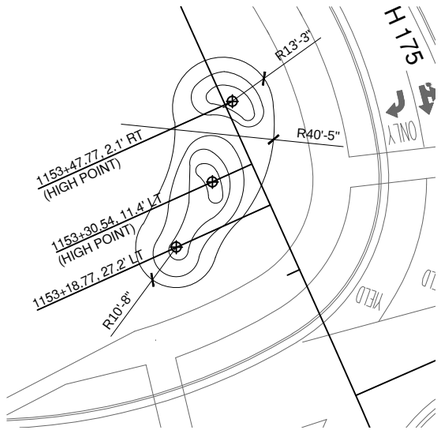
SE CORNER BERM - LAYOUT

scale: 1' = 20'



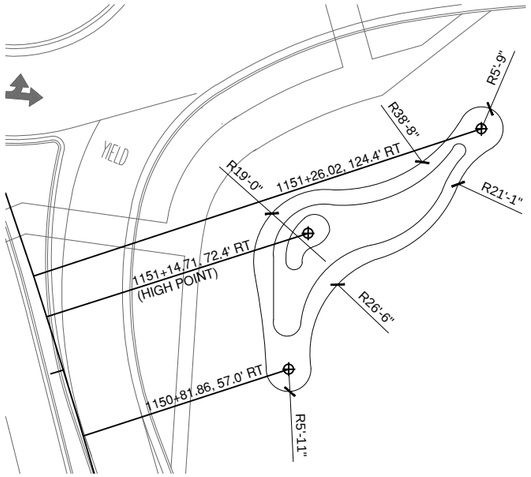
NE CORNER BERM - LAYOUT

scale: 1' = 20'



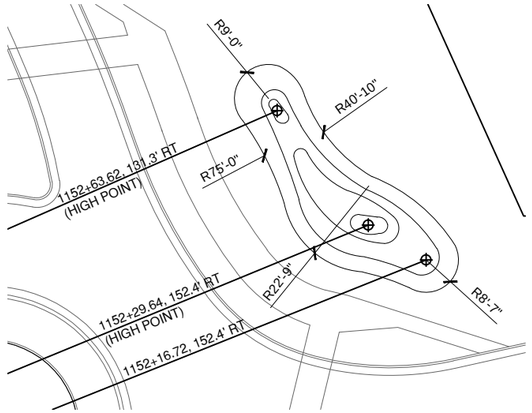
NW CORNER BERM - STATIONING

scale: 1' = 20'



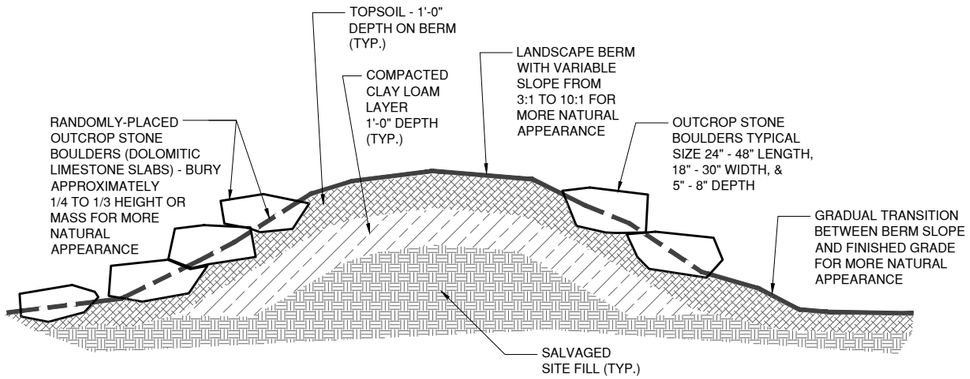
SE CORNER BERM - STATIONING

scale: 1' = 20'



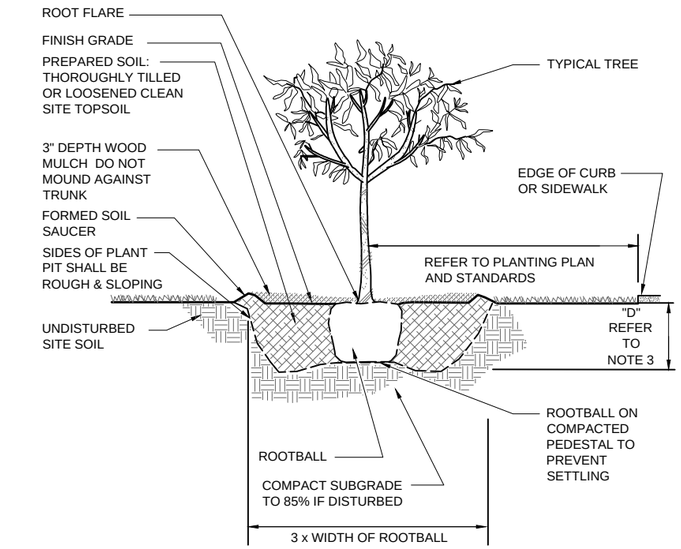
NE CORNER BERM - STATIONING

scale: 1' = 20'



ROUNDABOUT - BERM & BOULDER INSTALLATION

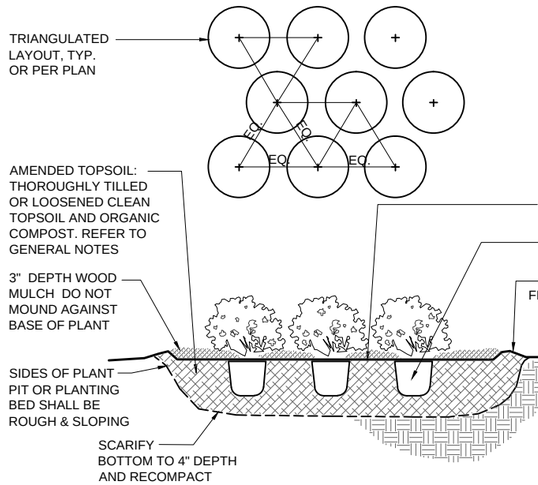
not to scale



NOTES:
1) NO PLANTS SHALL BE PRUNED EXCEPT AT THE DIRECTION OF ENGINEER OR ARCHITECT.
2) STAKE TREE ONLY IF NEEDED, PER DIRECTION OF ENGINEER OR ARCHITECT.
3) DEPTH ("D") OF PLANT TO BE EQUAL TO DEPTH OF ROOT BALL. TOP OF ROOT FLARE TO BE VISIBLE ABOVE LEVEL OF SOIL, REMOVE EXCESS SOIL AROUND ROOT FLARE IF NECESSARY.
4) REMOVE ALL TWINE, ROPE, WIRE, BURLAP, AND PLASTIC WRAP FROM TOP HALF OF ROOTBALL. IF PLANT HAS WIRE BASKET CUT WIRE IN FOUR PLACES AND FOLD DOWN 8" INTO PLANTING HOLE.

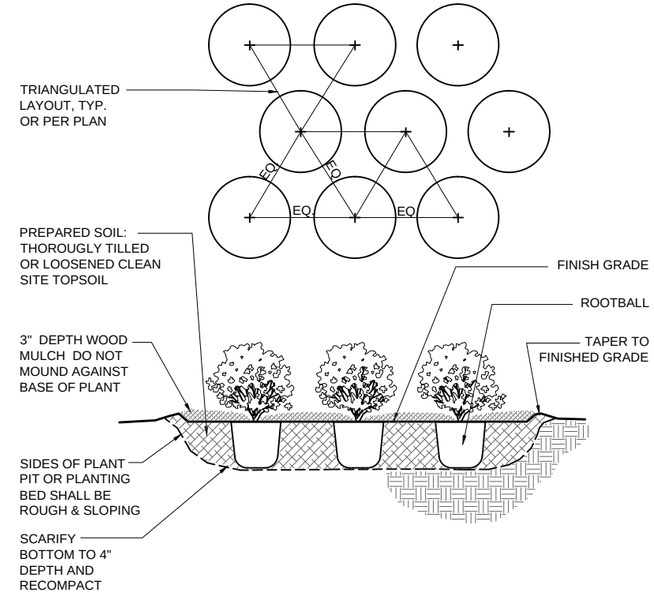
TREE PLANTING DETAIL

not to scale



VINE PLANTING DETAIL

not to scale



SHRUB PLANTING DETAIL

not to scale

2

LEGEND

EXISTING SIGN

(X-X) SIGN - REMOVAL

N

NOTES

CONTRACTOR SHALL NOT REMOVE EXISTING SIGNING UNTIL THE ROADWAY IS READY FOR NEW SIGNING SO THERE IS NOT A LACK OF PROPER SIGNING WHEN THE ROADWAY IS OPEN TO TRAFFIC

MOVING SIGNS ARE SHOWN IN PROPOSED LOCATIONS ON PERMANENT SIGNING PLANS

SIGN NUMBER 1-12 NOT USED

BEECHWOOD INDUSTRIAL CT

HUBERTUS RD

FREISTADT RD

STH 175

1085+00

1090+00

1095+00

1100+00

95+00 "HU"

100+00 "HU"

105+

1-1 STOP AHEAD REMOVE

1-2 SPEED LIMIT 45 REMOVE

1-3 STOP REMOVE

BEECHWOOD INDUSTRIAL CT
HWY 175
REMOVAL BY VILLAGE OF RICHFIELD

1-4 STOP AHEAD REMOVE

1-5 NO PASSING ZONE REMOVE

1-6 STOP AHEAD REMOVE

1-7 REMOVE

1-8 NO PASSING ZONE REMOVE

1-9 SOUTH 175 REMOVE

MOVE

1-10 Homestead Hollow County Park REMOVE

1-11 SPEED LIMIT 45 REMOVE

1-23 SPEED LIMIT 40 REMOVE

MOVING OVERHEAD SIGN SUPPORTS (S-66-235)

1-13 1-14 STOP ALL WAY REMOVE

HUBERTUS RD
FREISTADT RD
STATE ROAD 175
REMOVAL BY VILLAGE OF RICHFIELD

1-15 1-19 1-20 STOP ALL WAY REMOVE

1-18 NO PARKING ANY TIME REMOVE

1-16 NO PARKING ANY TIME REMOVE

1-17 SPEED LIMIT 45 REMOVE

MOVE

1-24 1-25 STOP ALL WAY REMOVE

1-21 1-22 STOP ALL WAY REMOVE

CANOPY

1-26 NORTH 175 REMOVE

MOVE

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	SIGN REMOVALS	SHEET 103	E

2

LEGEND

EXISTING SIGN

X-X SIGN - REMOVAL

N

2-1 STOP AHEAD REMOVE

2-2 Homestead Hollow County Park REMOVE

2-3 NO PASSING ZONE REMOVE

2-4 STOP AHEAD REMOVE

2-5 STOP REMOVE

FAIRWAY FIELD CT

FAIRWAY FIELD CT
STH 175
REMOVAL BY
VILLAGE OF RICHFIELD

2-6 SPEED LIMIT 45 REMOVE

GOLF GREEN

1100+00 1105+00 STH 175 1110+00 1115+00

POOL

SPEED LIMIT 45 REMOVE 2-7

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	SIGN REMOVALS	SHEET 104	E

2

2

LEGEND

EXISTING SIGN

X-X SIGN - REMOVAL

N

GOLF GREEN

GOLF COURSE

1115+00

1120+00

STH 175

1125+00

1130+00

3-3

SPEED LIMIT 45

REMOVE

SKYLINE RD

STH 175

REMOVAL BY VILLAGE OF RICHFIELD

3-5

STOP

REMOVE

SKYLINE DR

Skyline Dr

Reflections Dr

REMOVE

3-1

ONLY ONLY ONLY

REMOVE

3-2

SPEED LIMIT 45

REMOVE

3-4

REFLECTIONS DR

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	SIGN REMOVALS	SHEET 105	E

FILE NAME : P:\43xx\4340\Plan\Signing\Urban\em_023203_ps.dgn PLOT DATE : 12/10/2014 PLOT BY : tmc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN

X-X SIGN - REMOVAL

N

4-1

ONLY ONLY ONLY

REMOVE

4-4

Reflections Dr

Skyline Dr

REMOVE

4-8

STOP AHEAD

REMOVE

1130+00

1135+00

1140+00

1145+00

STH 175

AHEAD

REMOVE

4-2 4-3

STOP AHEAD

REMOVE

4-5

JCT 167

REMOVE

4-6

STOP AHEAD

REMOVE

4-7

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	SIGN REMOVALS	SHEET 106	E

FILE NAME : P:\43xx\4340\Plan\Signing\Urban\em_023204_ps.dgn PLOT DATE : 10/30/2014 PLOT BY : tmc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN

(X-X) SIGN - REMOVAL

N

STH 175

STH 167

1145+00

1150+00

1150+00"A"

1150+00"B"

1155+00

1155+00"F"

1155+00"E"

1160+00

685+00"H"

685+00"G"

690+00"D"

690+00"C"

(5-1) (5-2) Menomonee Falls 6 / Milwaukee 20 / NO PARKING ANY TIME ↔ — REMOVE

(5-3) (5-4) Slinger / Holy Hill / Germantown → / NO PARKING ANY TIME ↔ — REMOVE

(5-5) (5-6) SPEED LIMIT 45 / NO PARKING ANY TIME ↔ — REMOVE

(5-7) (5-8) STOP AHEAD / NO PARKING ANY TIME ↔ — REMOVE

(5-9) SOUTH 175 — REMOVE

(5-10) NO PARKING ANY TIME ↔ — REMOVE

(5-11) (5-12) WEST 167 | EAST 167 / NO PARKING ANY TIME ↔ — REMOVE

(5-13) (5-14) STOP (ALL WAY) — REMOVE

(5-15) — REMOVE

(5-16) (5-25) STOP — REMOVE

(5-17) STOP — REMOVE

(5-18) STOP — REMOVE

(5-19) — REMOVE

(5-20) RIGHT LANE MUST TURN RIGHT — REMOVE

(5-21) (5-22) STOP (ALL WAY) — REMOVE

(5-23) NORTH 175 | SOUTH 175 — REMOVE

(5-24) NO PASSING ZONE — REMOVE

(5-26) (5-27) STOP (ALL WAY) — REMOVE

(5-28) EAST 167 — REMOVE

(5-29) SPEED LIMIT 45 — REMOVE

(5-30) Holy Hill / ←Menomonee Falls / Slinger → — REMOVE

(5-31) STOP — REMOVE

(5-32) (5-33) (5-34) (5-35) STOP (ALL WAY) — REMOVE

(5-36) EAST 167 | WEST 167 — REMOVE

(5-37) NORTH 175 — REMOVE

(5-38) — REMOVE

(5-39) SPEED LIMIT 30 — REMOVE

(5-40) STOP AHEAD — REMOVE

(5-41) STOP AHEAD — REMOVE

(5-42) ↑ Menomonee Falls / ← Germantown / Holy Hill → — REMOVE

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	SIGN REMOVALS	SHEET 107	E

FILE NAME : P:\43xx\4340\Plan\Signing\Urban\em_023205_ps.dgn PLOT DATE : 10/30/2014 PLOT BY : tmc PLOT NAME : PLOT SCALE : 1:100

2

2

LEGEND

EXISTING SIGN

X-X SIGN - REMOVAL

N

6-3 STOP AHEAD REMOVE

6-4 JCT 167 REMOVE

6-5 STOP REMOVE

6-7 SPEED LIMIT 30 REMOVE

6-11 SPEED LIMIT 30 REMOVE

STH 175

1160+00

1165+00

1170+00

1175+00

POOL

6-1 SPEED LIMIT 30 REMOVE

6-2 STOP AHEAD REMOVE

POOL

POOL

RICHFIELD SERVICE DR
REMOVAL BY
VILLAGE OF RICHFIELD

RICHFIELD SRV RD

6-6 STOP REMOVE

6-8 NO PASSING ZONE REMOVE

6-9 SPEED LIMIT 30 REMOVE

ELM ST

ELM ST
REMOVAL BY
VILLAGE OF RICHFIELD

6-10 STOP REMOVE

6-12 SPEED LIMIT 30 REMOVE

6-13 STOP REMOVE

DEPOT ST

DEPOT ST
STH 175
REMOVAL BY
VILLAGE OF RICHFIELD

ORCHARD ST

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	SIGN REMOVALS	SHEET 108	E

FILE NAME : P:\43xx\4340\Plan\Signing\Urban\em_023206_ps.dgn PLOT DATE : 10/30/2014 PLOT BY : tmc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN

X-X SIGN - REMOVAL

N

7-1 SPEED LIMIT 30 REMOVE

7-7 SPEED LIMIT 30 REMOVE

TANKS

WISCONSIN & SOUTHERN RAILROAD

1175+00

1180+00

STH 175

1185+00

1190+00

RAILROAD ST

SPEED LIMIT 30 REMOVE 7-2

R R REMOVE 7-3 7-4

HWY 175 RAILROAD ST REMOVAL BY VILLAGE OF RICHFIELD

STOP REMOVE 7-5

SPEED LIMIT 30 REMOVE 7-6

REMOVE 7-8

AICHER LN REMOVAL BY VILLAGE OF RICHFIELD

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	SIGN REMOVALS	SHEET 109	E

2

2

LEGEND

EXISTING SIGN

X-X SIGN - REMOVAL

N

8-1
SPEED LIMIT 30
REMOVE

8-3
NO PASSING ZONE
REMOVE

8-4
R R
REMOVE

1190+00

1195+00

STH 175

1200+00

1205+00

SPEED LIMIT 40
REMOVE
8-2

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	SIGN REMOVALS	SHEET 110	E

2

LEGEND

EXISTING SIGN

X-X SIGN - REMOVAL

N

9-3
SPEED LIMIT 45
REMOVE

9-6
WEST 167
REMOVE

680+00"G"

STH 167

685+00"G"

685+00"H"

Downtown Richfield
REMOVE
9-1

Germantown
Slinger
Menomonee Falls
REMOVE
9-2

BASSWOOD LN
STATE ROAD 167
REMOVAL BY
VILLAGE OF RICHFIELD

BASSWOOD LN

STOP
REMOVE
9-4

RIGHT LANE MUST TURN RIGHT
REMOVE
9-5

2

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	SIGN REMOVALS - STH 167	SHEET	E

FILE NAME : P:\43xx\4340\Plan\Signing\Urban\em_023209_ps.dgn PLOT DATE : 10/30/2014 PLOT BY : tmc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN

X-X SIGN - REMOVAL

N

10-2 10-3

AHEAD

REMOVE

10-5

REMOVE

10-6

JCT 175

REMOVE

10-8

Richfield

POPULATION 11,385

REMOVE

10-9

STOP

REMOVE

WOLF RD

STH 167

REMOVAL BY

VILLAGE OF RICHFIELD

10-10

R R

REMOVE

695+00"D"

695+00"C"

STH 167

700+00"D"

700+00"C"

WOLF RD

WISCONSIN & SOUTHERN RAILROAD

R R

REMOVE

10-1

REMOVE

10-4

JCT 41 45

REMOVE

10-7

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	SIGN REMOVALS - STH 167	SHEET 112	E

FILE NAME : P:\43xx\4340\Plan\Signing\Urban\em_023210_ps.dgn PLOT DATE : 10/30/2014 PLOT BY : tmc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

LEGEND

PROPOSED SIGN

X-X SIGN - PROPOSED

18" X 18" TEMPORARY ORANGE FLAGS

N

BEECHWOOD INDUSTRIAL CT

HUBERTUS RD

FREISTADT RD

STH 175

1085+00

1090+00

1095+00

1100+00

95+00 "HU"

100+00 "HU"

105+

11-2 SPEED LIMIT 45 R2-1 24" X 30"

11-3 STOP R1-1 36" X 36"

11-5 NO PARKING ANY TIME R7-1D 18" X 24"

11-6 W1-2L 30" X 30"

11-8 SOUTH 175 J4-1 24" X 36"

11-13 MOVE

11-14 SPEED LIMIT 45 R2-1 24" X 30"

11-15 NO PARKING ANY TIME R7-1D 18" X 24"

11-17A 11-17B 11-22 11-23 11-24 11-25 STOP R1-1 36" X 36" ALL WAY R1-3P 30" X 12"

11-17C W3-1 36" X 36"

2' MOUNTING HEIGHT

11-21 W12-1D 18" X 18"

11-18 SPEED LIMIT 45 R2-1 24" X 30"

11-19 NO PARKING ANY TIME R7-1D 18" X 24"

11-20 MOVE

11-29 11-30 STOP R1-1 36" X 36" ALL WAY R1-3P 30" X 12"

11-4 NO PARKING ANY TIME R7-1D 18" X 24"

11-5A Hubertus Rd Freistadt Rd D1-2 84" X 30"

11-7 NO PARKING ANY TIME R7-1D 18" X 24"

11-9 W3-1 36" X 36"

11-11 ONLY R3-8A 36" X 30"

11-12 Homestead Hollow County Park D7-68R 84" X 36"

11-16A STOP MOVE

11-16 11-17 STOP R1-1 36" X 36" ALL WAY R1-3P 30" X 12"

MOVING OVERHEAD SIGN SUPPORT (S-66-235)

MOUNT SUPPORT 3.5' ON CENTER FROM BACK OF CURB TO ENSURE 2' CLEAR FROM EDGE OF R1-1

FOR CONCRETE BASE DETAILS, SEE SDD "36-INCH DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE"

11-26 11-27 11-27A 11-27B STOP R1-1 36" X 36" ALL WAY R1-3P 30" X 12"

NORTH 175 J4-1 24" X 36" 11-31

MOVE 11-32

11-28 SPEED LIMIT 40 R2-1 24" X 30"

11-28A W3-1 36" X 36"

NOTES

TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC SIGN SHOP ON 60TH STREET IN WEST ALLIS. SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE SPECIAL PROVISION 638.3.4). THE REGIONAL SIGN SHOP (414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

WHEN AN EXISTING STOP SIGN SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED, THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

INSTALL NO PASSING ZONE PENNANT SIGNS BASED ON NEW PASSING ZONES ESTABLISHED. FIVE UNDISTRIBUTED SIGNS ARE INCLUDED IN THE SIGNING QUANTITIES.

SIGN NUMBERS NOT USED: 11-1, 11-10, 12-12, 13-4, 13-8, 14-3, 14-8, 14-9, 16-3, 16-6, 16-7, 17-8

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 113	E

LEGEND

PROPOSED SIGN

X-X SIGN - PROPOSED

18" X 18" TEMPORARY ORANGE FLAGS

N

12-2 12-2A
R3-8A
36" X 30"

12-3
W3-1
36" X 36"

12-4
Homestead Hollow
County Park
D7-68L
60" X 30"

12-5
Freistadt Rd
Hubertus Rd
D1-2
54" X 24"

12-7
SPEED LIMIT 45
R2-1
24" X 30"

12-8
NO PARKING ANY TIME
R7-1D
18" X 24"

12-10
STOP
R1-1
36" X 36"

FAIRWAY FIELD CT

12-11
NO PARKING ANY TIME
R7-1D
18" X 24"

12-14
BEGIN RIGHT TURN LANE
R3-2OR
24" X 36"

GO' GREEN

1100+00 1105+00 STH 175 1110+00 1115+00

NO PARKING ANY TIME
R7-1D
18" X 24"
12-1

W1-7
48" X 24"
12-6

NO PARKING ANY TIME
R7-1D
18" X 24"
12-9

POOL

SPEED LIMIT 45
R2-1
24" X 30"
12-13

NO PARKING ANY TIME
R7-1D
18" X 24"
12-15

2

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 114	E

FILE NAME : P:\43xx\4340\Plan\Signing\Urban\em_023212_ps.dgn PLOT DATE : 10/30/2014 PLOT BY : tmc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

LEGEND

PROPOSED SIGN

X-X SIGN - PROPOSED

18" X 18" TEMPORARY ORANGE FLAGS

N

13-2
NO PARKING ANY TIME
R7-1D
18" X 24"

13-4
RIDESHARE INFORMATION
www.rideshare.wi.gov
D12-2B
84" X 36"

13-5
NO PARKING ANY TIME
R7-1D
18" X 24"

13-9
SPEED LIMIT 45
R2-1
24" X 30"

13-10
NO PARKING ANY TIME
R7-1D
18" X 24"

13-11
STOP
R1-1
36" X 36"

SKYLINE DR

1115+00

1120+00

STH 175

1125+00

1130+00

RIDESHARE INFORMATION
www.rideshare.wi.gov
D12-2B
84" X 36"
13-1A

Skyline Dr
Reflections Dr
D1-2
96" X 30"
13-1

NO PARKING ANY TIME
R7-1D
18" X 24"
13-3

ONLY ONLY ONLY
R3-8W
54" X 30"
13-6

NO PARKING ANY TIME
R7-1D
18" X 24"
13-7

REFLECTIONS DR

SPEED LIMIT 45
R2-1
24" X 30"
13-12

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 115	E

FILE NAME : P:\43xx\4340\Plan\Signing\Urban\em_023213_ps.dgn PLOT DATE : 10/30/2014 PLOT BY : tmc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

LEGEND

PROPOSED SIGN

X-X SIGN - PROPOSED

18" X 18" TEMPORARY ORANGE FLAGS

N

14-1
R3-8W
54" X 30"
ONLY ONLY ONLY

14-4
R7-1D
18" X 24"
NO PARKING ANY TIME

14-5
D1-2
96" X 30"
Reflections Dr
Skyline Dr

14-7
R7-1D
18" X 24"
NO PARKING ANY TIME

14-11
R7-1D
18" X 24"
NO PARKING ANY TIME

14-15
D2-2
114" X 24"
Menomonee Falls 6
Milwaukee 20

1130+00 1135+00 1140+00 1145+00

STH 175

14-2
R7-1D
18" X 24"
NO PARKING ANY TIME

14-6
R7-1D
18" X 24"
NO PARKING ANY TIME

14-10
R7-1D
18" X 24"
NO PARKING ANY TIME

14-12
JCT
167
J1-1
24" X 39"

14-13 14-14
W2-6
36" X 36"
15 M.P.H.
W13-1
24" X 24"

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 116	E

2

LEGEND

PROPOSED SIGN

X-X SIGN - PROPOSED

18" X 18" TEMPORARY ORANGE FLAGS

STH 175

STH 167

1145+00

1150+00

1150+00"A"

1150+00"B"

1155+00

1155+00"E"

1155+00"F"

1160+00

690+00"C"

690+00"D"

BLEAKHOUSE'S PARK POND

15-1 D1-62 132" X 96" NORTH 175 Slinger WEST 167 EAST 167 Germantown

15-2 R7-1D 18" X 24" NO PARKING ANY TIME

15-3 R7-1D 18" X 24" NO PARKING ANY TIME

15-4 15-5 15-6 S16-9P 30" X 18" AHEAD; R2-6P 24" X 18" FINES HIGHER

15-7 15-7A R2-1 24" X 30" SPEED LIMIT 45; S5-2 24" X 30" END SCHOOL ZONE

15-8 W3-2 36" X 36"

15-9 R7-1D 18" X 24" NO PARKING ANY TIME

15-10 15-11 R4-7 24" X 30"; W5-54 24" X 24"

15-11A R5-1 36" X 36" DO NOT ENTER

15-11B R3-4 24" X 24"

15-12 J4-1 24" X 36" SOUTH 175

15-13 15-14 S1-1 36" X 36"; S16-7L 30" X 18"

15-15 15-16 S1-1 36" X 36"; S16-7L 30" X 18"

15-17 15-18 R1-2 36" X 31"; R1-54 24" X 15" TO TRAFFIC FROM LEFT

15-19 15-20 R6-2R 24" X 30" ONE WAY

15-21 D1-1 42" X 30" SOUTH 175

15-22 15-23 15-24 15-25 15-26 15-27 15-28 15-29 R6-4B 60" X 24"

15-30 D1-1 42" X 30" NORTH 175

15-31 15-32 S1-1 36" X 36"; S16-7L 30" X 18"

15-33 15-34 S1-1 36" X 36"; S16-7L 30" X 18"

15-35 15-36 R1-2 36" X 31"; R1-54 24" X 15" TO TRAFFIC FROM LEFT

15-37 J4-1 24" X 36" NORTH 175

15-38 15-39 S1-1 36" X 36"; S16-7L 30" X 18"

15-40 15-40A R6-1R 36" X 12" ONE WAY; R6-4B 60" X 24"

15-40B R3-4 24" X 24"; R4-7 24" X 30"; W5-54 24" X 24"

15-41 R3-8DD 36" X 30" ONLY

15-42 R7-1D 18" X 24" NO PARKING ANY TIME

15-43 W3-2 36" X 36"

15-44 15-44A S5-2 24" X 30" END SCHOOL ZONE; R2-1 24" X 30" SPEED LIMIT 30

15-44B R5-1 36" X 36" DO NOT ENTER

15-45 15-46 15-47 S1-1 36" X 36" AHEAD; S16-9P 32" X 18" FINES HIGHER; R2-6P 24" X 18"

15-48 D1-62 138" X 96" SOUTH 175 Menomonee Falls EAST 167 WEST 167 Germantown

15-49 R7-1D 18" X 24" NO PARKING ANY TIME

15-50 15-51 W2-6 30" X 30"; W13-1 18" X 18" 15 M.P.H.

15-52 J1-1 24" X 39" JCT 167

15-53 15-54 R3-4 24" X 24"; R4-7 24" X 30"

15-54A R5-1 36" X 36" DO NOT ENTER

15-54B W5-54 24" X 24"

15-55 S1-1 36" X 36"; S16-7L 30" X 18"

15-56 15-57 R1-2 36" X 31"; R1-54 24" X 15" TO TRAFFIC FROM LEFT

15-58 15-59 R1-2 36" X 31"; R6-2R 24" X 30" ONE WAY

15-60 D1-1 42" X 30" WEST 167

15-61 15-62 R1-2 36" X 31"; R1-54 24" X 15" TO TRAFFIC FROM LEFT

15-63 15-64 R1-2 36" X 31"; R6-2R 24" X 30" ONE WAY

15-65 15-66 R1-2 36" X 31"; R1-54 24" X 15" TO TRAFFIC FROM LEFT

15-67 15-68 R1-2 36" X 31"; R6-2R 24" X 30" ONE WAY

15-69 D1-2 42" X 54" EAST 167 TO 94

15-70 15-71 S1-1 36" X 36"; S16-7L 30" X 18"

15-72 15-73 S1-1 36" X 36"; S16-7L 30" X 18"

15-74 J4-1 24" X 36" WEST 167

15-75 15-76 R3-4 24" X 24"; R4-7 24" X 30"

15-76A W5-54 24" X 24"

15-77 R2-1 24" X 30" SPEED LIMIT 45

15-78 R5-1 36" X 36" DO NOT ENTER

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 117	E

FILE NAME : W:\x-Projects\RD\7140\x1cs\70 last minute sign changes\em_023215_ps.dgn PLOT DATE : 5/14/2015 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 100.0000 sf / in.

WISDOT/CADDS SHEET 42

2

2

LEGEND

PROPOSED SIGN

X-X SIGN - PROPOSED

18" X 18" TEMPORARY ORANGE FLAGS

N

STH 175

1160+00

1165+00

1170+00

1175+00

RICHFIELD SRV RD

ELM ST

ORCHARD ST

DEPOT ST

POOL

POOL

16-1 SPEED LIMIT 30 R2-1 24" X 30"

16-2 NO PARKING ANY TIME R7-1D 18" X 24"

16-4 NO PARKING ANY TIME R7-1D 18" X 24"

16-5 NO PARKING ANY TIME R7-1D 18" X 24"

16-8 STOP R1-1 36" X 36"

16-9 SPEED LIMIT 30 R2-1 24" X 30"

16-10 SPEED LIMIT 30 R2-1 24" X 30"

16-11 NO PARKING ANY TIME R7-1D 18" X 24"

16-12 NO PARKING ANY TIME R7-1D 18" X 24"

16-13 STOP R1-1 36" X 36"

16-14 NO PARKING ANY TIME R7-1R 18" X 24"

16-15 SPEED LIMIT 30 R2-1 24" X 30"

16-16 NO PARKING ANY TIME R7-1L 18" X 24"

16-17 SPEED LIMIT 30 R2-1 24" X 30"

16-18 NO PARKING ANY TIME R7-1L 18" X 24"

16-19 STOP R1-1 36" X 36"

16-20 NO PARKING ANY TIME R7-1R 18" X 24"

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 118	E

FILE NAME : P:\43xx\4340\Plan\Signing\Urban\em_023216_ps.dgn PLOT DATE : 10/30/2014 PLOT BY : tmc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

LEGEND

PROPOSED SIGN

X-X SIGN - PROPOSED

18" X 18" TEMPORARY ORANGE FLAGS

N

STH 175

1175+00

1180+00

1185+00

1190+00

TANKS

RAILROAD ST

WISCONSIN & SOUTHERN RAILROAD

17-1 R7-1L 18" X 24"

17-2 R7-1R 18" X 24"

17-2A R7-1L 18" X 24"

17-2B R7-1L 18" X 24"

17-2C R7-1R 18" X 24"

17-3 R2-1 24" X 30"

17-3A R7-1L 18" X 24"

17-4 17-5 R7-1L 18" X 24"

17-5A R7-1R 18" X 24"

17-6 R1-1 36" X 36"

17-7 R5-6 18" X 18"

17-9 W10-1 36" X 36"

17-10 R2-1 24" X 30"

17-11 17-12 W10-12 36" X 36" TRACKS MAY CATCH BIKE TIRES W11-59P 30" X 24"

17-13 R7-1D 18" X 24"

17-14 W11-8 30" X 30"

17-15 R7-1D 18" X 24"

17-16 R2-1 24" X 30"

17-17 R7-1D 18" X 24"

17-18 R7-1D 18" X 24"

17-19 17-20 W10-12 36" X 36" TRACKS MAY CATCH BIKE TIRES W11-59P 30" X 24"

17-21 W10-1 36" X 36"

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 119	E

FILE NAME : P:\43xx\4340\Plan\Signing\Urban\em_023217_ps.dgn PLOT DATE : 10/30/2014 PLOT BY : tmc PLOT NAME : PLOT SCALE : 1:100

2

2

LEGEND

PROPOSED SIGN

X-X SIGN - PROPOSED

18" X 18" TEMPORARY ORANGE FLAGS

N

18-1
SPEED LIMIT 30
R2-1
24" X 30"

18-3
W11-8
30" X 30"

18-5
NO PARKING ANY TIME
R7-1D
24" X 30"

1190+00 1195+00 STH 175 1200+00 1205+00

SPEED LIMIT 40
R2-1
24" X 30"
18-2

NO PARKING ANY TIME
R7-1D
24" X 30"
18-4

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET 120	E

FILE NAME : P:\43xx\4340\Plan\Signing\Urban\em_023218_ps.dgn PLOT DATE : 10/30/2014 PLOT BY : tmc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

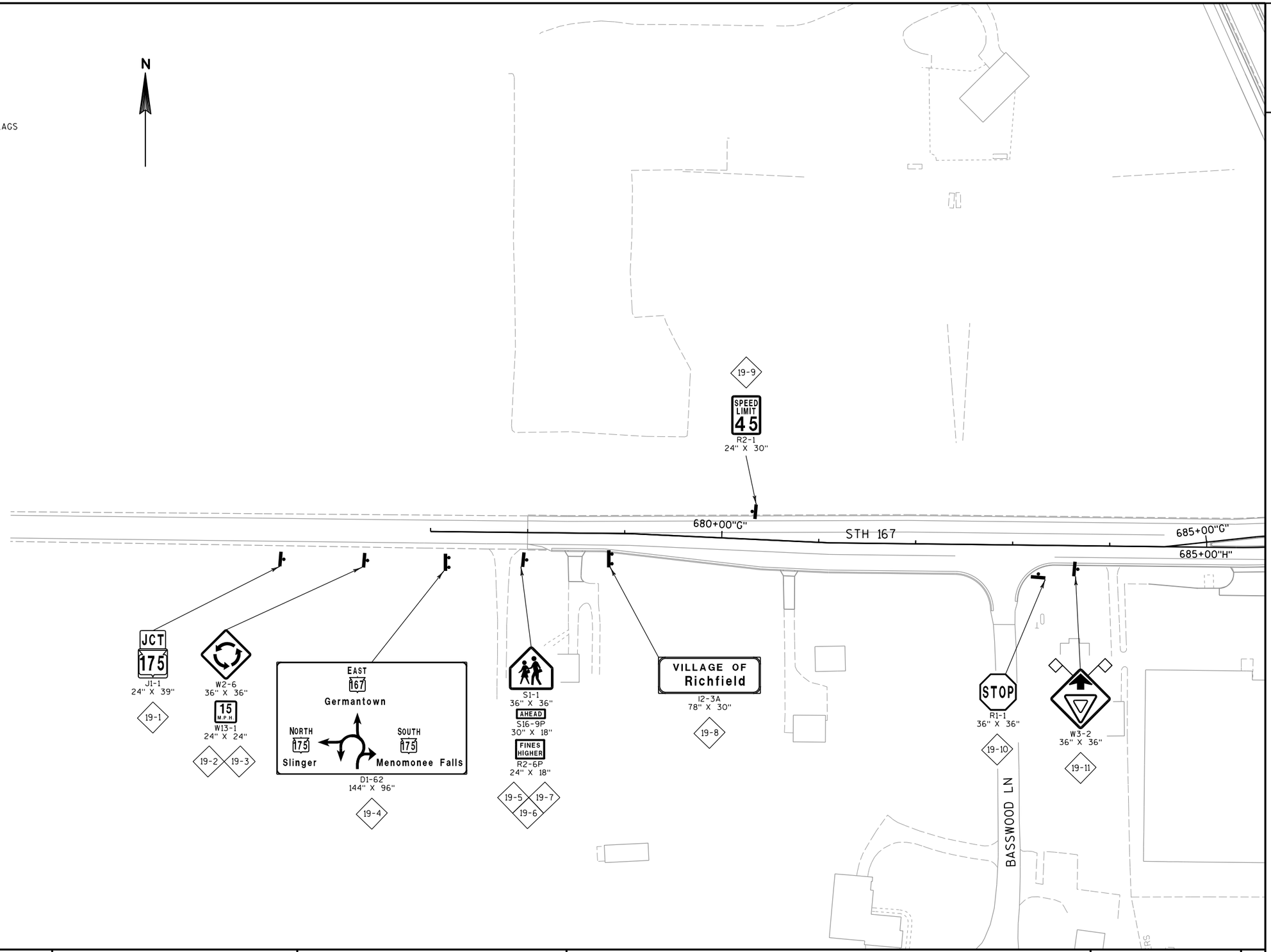
LEGEND

PROPOSED SIGN

X-X SIGN - PROPOSED

18" X 18" TEMPORARY ORANGE FLAGS

N



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PERMANENT SIGNING - STH 167	SHEET 121	E

FILE NAME : P:\43xx\4340\Plan\Signing\Urban\em_023219_ps.dgn PLOT DATE : 10/30/2014 PLOT BY : tmc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

LEGEND

PROPOSED SIGN

X-X SIGN - PROPOSED

18" X 18" TEMPORARY ORANGE FLAGS

N

20-5

WEST 167

SOUTH 175 Menomonee Falls

NORTH 175 Slinger

D1-62
144" X 84"

20-3
20-2 20-4

20-1

S1-1
36" X 36"

AHEAD
S16-9P
30" X 18"

FINES HIGHER
R2-6P
24" X 18"

W3-2
36" X 36"

20-6 20-7

W2-6
36" X 36"

15 M.P.H.
W13-1
24" X 24"

20-9

JCT 175
J1-1
24" X 39"

20-11

Richfield
POPULATION 11,300
I2-3
60" X 24"

20-12

STOP
R1-1
36" X 36"

WISCONSIN & SOUTHERN RAILROAD

WOLF RD

20-13

R R
W10-1
36" X 36"

695+00"D"
695+00"C"

STH 167

700+00"D"
700+00"C"

R R
W10-1
36" X 36"

20-8

W10-12
36" X 36"

20-5A

JCT JCT JCT
INTERSTATE 41 41 45
J1-3
72" X 39"

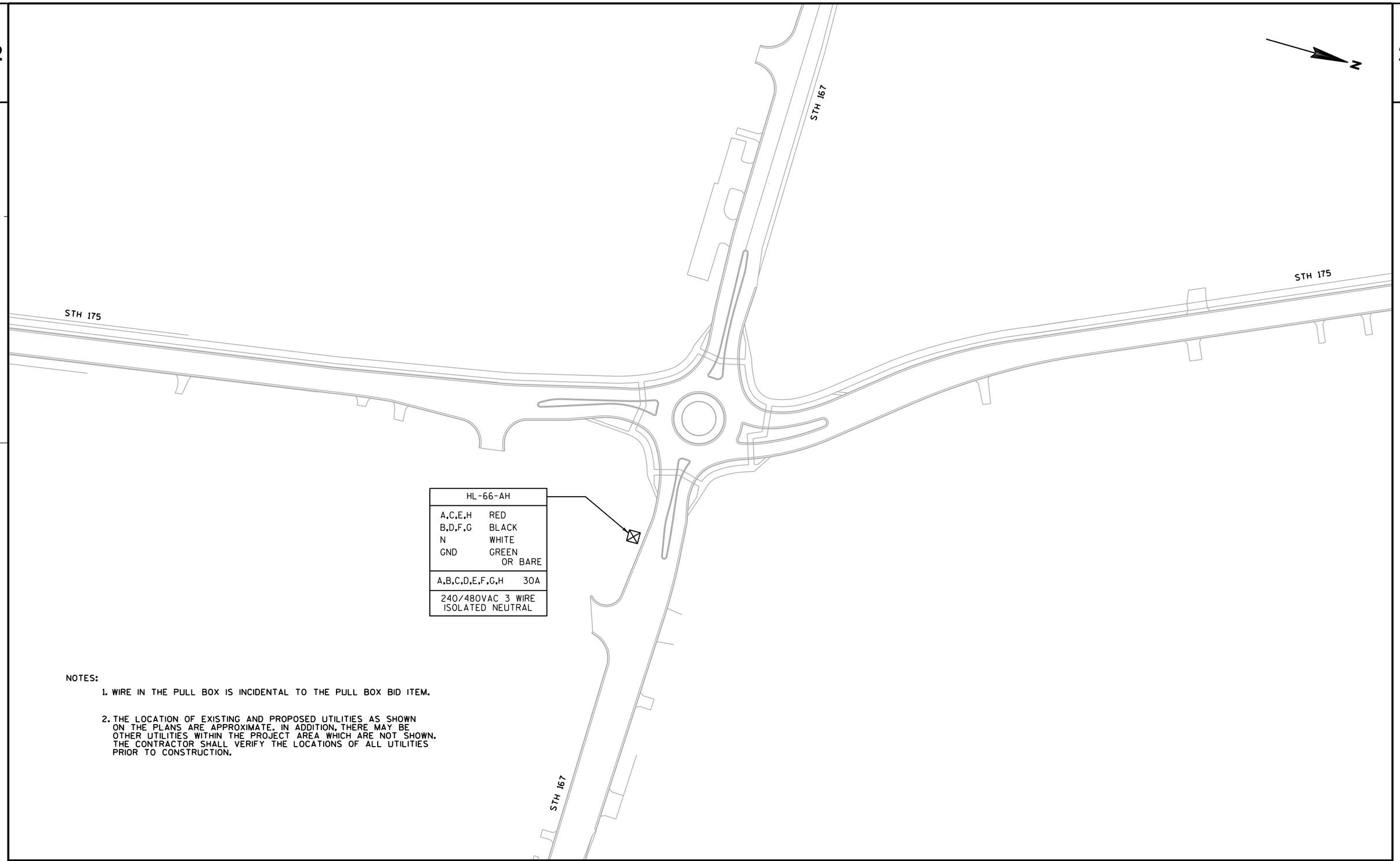
20-10

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PERMANENT SIGNING - STH 167	SHEET 122	E

FILE NAME : P:\43xx\4340\Plan\Signing\Urban\em_023220_ps.dgn PLOT DATE : 5/13/2015 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2



NOTES:

1. WIRE IN THE PULL BOX IS INCIDENTAL TO THE PULL BOX BID ITEM.

2. 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.

2

GENERAL NOTES:

FREEWAY LIGHTING SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 652 TO 657 AND 659 EXCEPT:

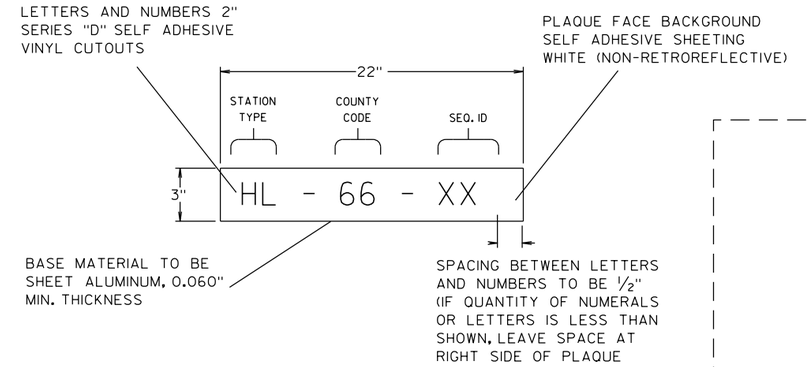
1. DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THESE DRAWINGS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.
2. LOCATIONS OF THE PVC CONDUITS ARE INDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. HOWEVER, INSTALLATION WILL REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. UNDER THE APPROVAL OF THE ENGINEER, APPROPRIATE ADJUSTMENT OF 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 RE TO ILLUSTRATE AS BUILT CONDITIONS.
3. THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.
4. ALL OPEN AND UNTERMINATED CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATLY AFTER INSTALLATION.
5. 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.
6. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.
7. 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 THAT CAN BE EASILY REMOVED. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.
8. CONSUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX, JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.
9. PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.
10. CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS (PDF FORMAT) FOR ALL THE WORK BEING DONE.
11. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION.
12. UNDERGROUND WIRE & CONDUIT SHOWN ON REMOVAL PLANS FOR REMOVAL SHALL BE ABANDONED IN PLACE UNLESS DIRECTED BY THE ENGINEER. CONTRACTOR MAY CHOOSE TO REMOVE CONDUCTOR AT THEIR OWN EXPENSE.
13. PROVIDE MINIMUM CABLE SLACK AS MENTIONED BELOW:

PULL BOXES:	10-FT
EMBEDDED JUCTION BOXES:	3-FT
DISTRIBUTION CENTER/LOAD CENTER:	10-FT
POLES:	5-FT IN AND 5-FT OUT

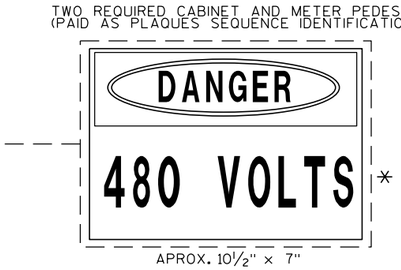
2

GENERAL NOTES:

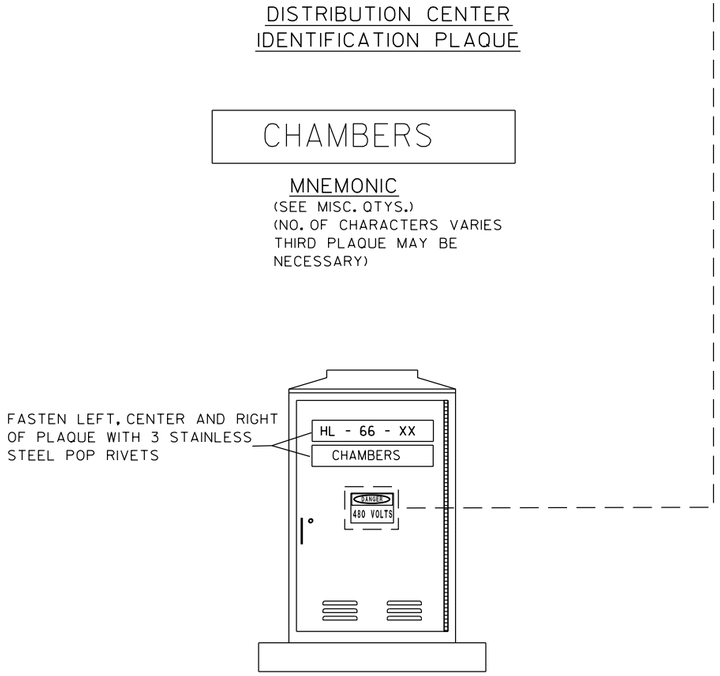
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS.



DISTRIBUTION CENTER IDENTIFICATION PLAQUE



*SOME LOCATIONS WILL BE 240 VOLTS

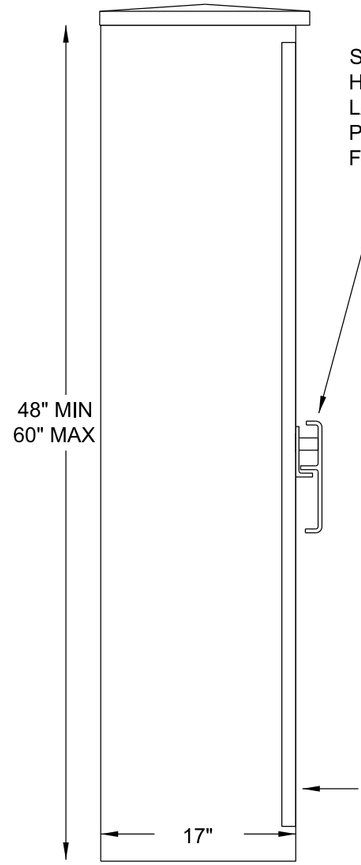


DISTRIBUTION CENTER IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENTS

(TYPICAL ALL CONTROL CABINETS)

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	LIGHTING DETAIL - CABINET PLAQUES	SHEET 125	E

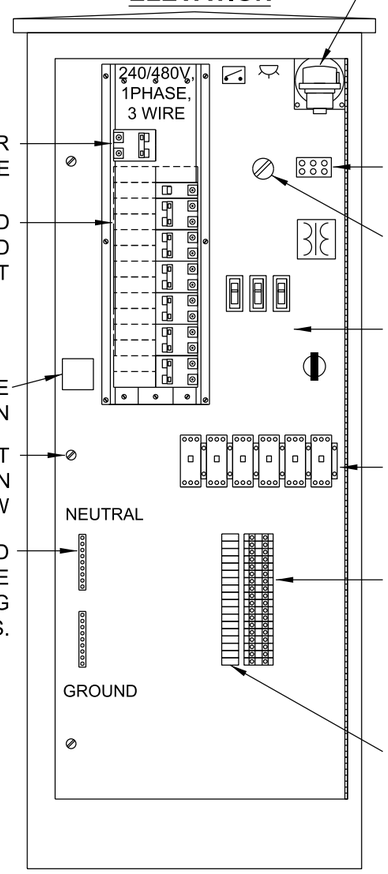
LEFT SIDE VIEW



STAINLESS STEEL HANDLE WITH 3 - POINT LATCH & PADLOCKING PROVISIONS WITH LOCK FOR #2 KEY

LOUVERS ON DOOR AS REQUIRED

FRONT INTERIOR ELEVATION



NEMA TWIST-LOCK WISDOT APPROVED PHOTOCELL, 240V MOUNTED BEHIND WINDOWS

BACK FED MAIN BREAKER IS ACCEPTABLE

PANELBOARD MOUNTED ON BACK PANEL BEHIND DEAD FRONT

SURGE PROTECTION

DEAD FRONT QUARTER-TURN WING SCREW

NEUTRAL BUS SIZED TO ACCOMMODATE #10 THRU # 2 AWG CONDUCTORS.

GROUND

PHOTOCELL TERMINAL BLOCK

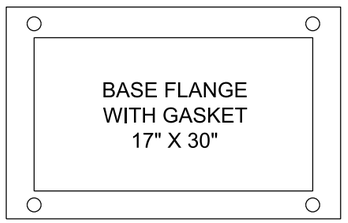
HAND-OFF-AUTO SWITCH MOUNTED ON HINGED DEAD FRONT

INTERIOR COMPONENTS MOUNTED ON BACK PANEL BEHIND HINGED DEAD FRONT

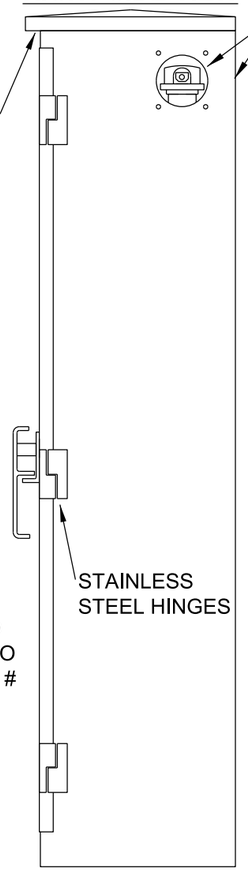
(6) 2P CONTACTORS, 240V COIL (CONTACTORS SIZED AS REQUIRED)

TERMINAL BLOCKS FOR LIGHTING CIRCUIT CONDUCTORS PRE-WIRED TO CONTACTORS. SIZED TO ACCOMMODATE #10 THRU # 2 AWG CONDUCTORS.

CIRCUIT LABELS



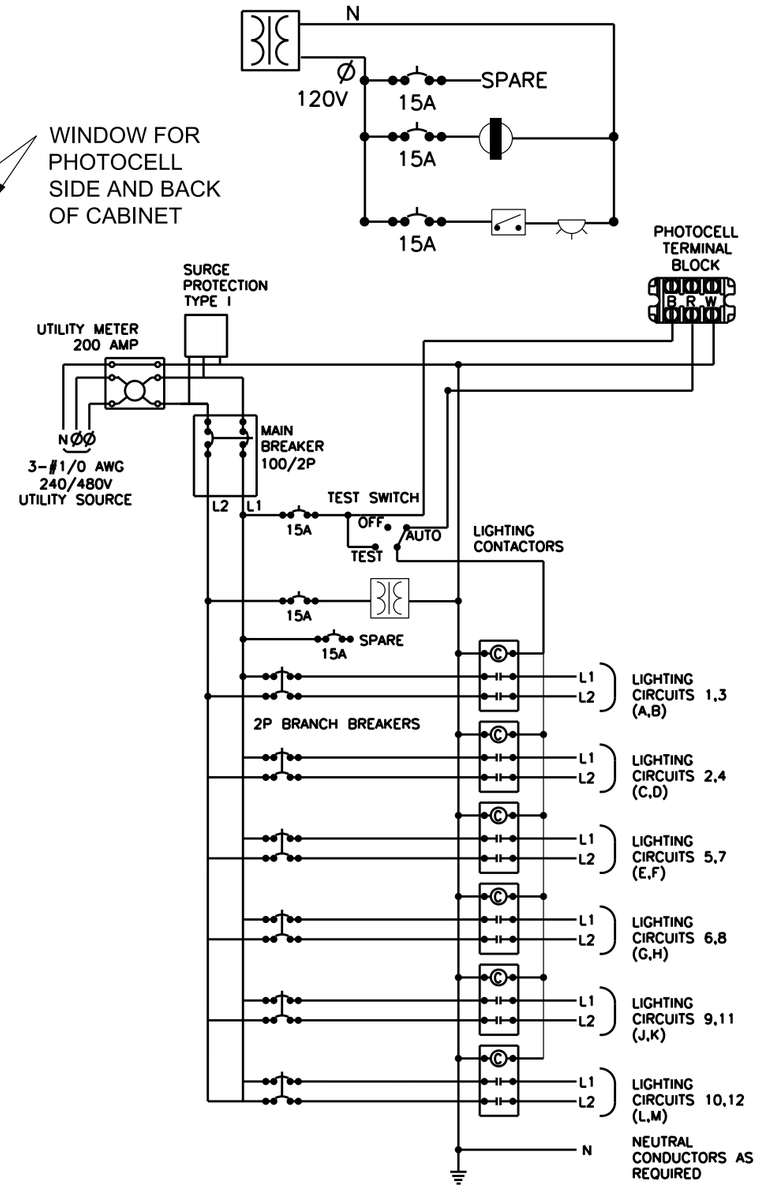
RIGHT SIDE VIEW



WINDOW FOR PHOTOCELL SIDE AND BACK OF CABINET

VENTILATION UNDER TOP

STAINLESS STEEL HINGES



LEGEND:

- 15AMP GFCI DUPLEX RECEPTACLE WITH COVER, 120V,
- 1.5KVA, SINGLE PHASE ENCAPSULATED TRANSFORMER 240//120V, 60HZ
- SPST, 20AMP SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
- INCANDESCENT LIGHTING FIXTURE 60WATT, 120V LAMP.
- 15AMP/1P CIRCUIT BREAKER, 120V

PANELBOARD:

- 30 CIRCUIT MIN.
- 100AMP MAIN CIRCUIT BREAKER
- COPPER BUS
- BOLT- ON BREAKERS
- 22K AIC
- (2) 15A/1P CONTROL BREAKER, 240V
- (1) 15A/1P CONTROL BREAKER, 240V, SPARE
- (6) 30A/2P BRANCH BREAKERS

BOX CONSTRUCTION:

- NEMA3R
- UL LISTED
- -1/8" ALUMINUM 5052-H32 ANODIZED CLEAR
- BENT CONSTRUCTION - ONE PIECE SIDES AND BACK
- NEOPRENE GASKETED DOORS
- STAINLESS STEEL HARDWARE
- ETL LISTED IN ACCORDANCE W/ UL508A

CONTROL CABINET SCHEMATIC

240/480 VOLT LIGHTING CONTROL CABINET

2

N

4#6AWG

1148+60, 40' LT
LEDC-5(T)-15-FAH1

PC 1148+95.85

SIGN

1145+00

1146+00

1147+00

STH 175

1148+00

1149+00

1147+75, 22' RT
LEDC-5(T)-6-AAH3

4#6AWG

SIGN

1149+73, 30' RT
LEDC-5(T)-6-BAH3

4#6AWG

LEGEND

⊠	DISTRIBUTION CENTER
- - — - —	CID (CABLE IN DUCT)
— — — —	CONDUIT - 2" UNLESS OTHERWISE SHOWN
●—●	LIGHT POLE, ARM MOUNTED LUMINAIRE
⇒	CONDUIT STUBOUT
⊠	PULLBOX 24" x 42"
◐	PULLBOX 24" x 36"
EOP	EDGE OF PAVEMENT
B.O.C.	BACK OF CURB
C.I.M.	CENTER IN MEDIAN
B.O.S.	BACK OF SIDEWALK
✳—●	MUNICIPAL LIGHT POLE

STATION — OFFSET

100+00.00, (100.00RT)

LED C A(T) 4 ANSI

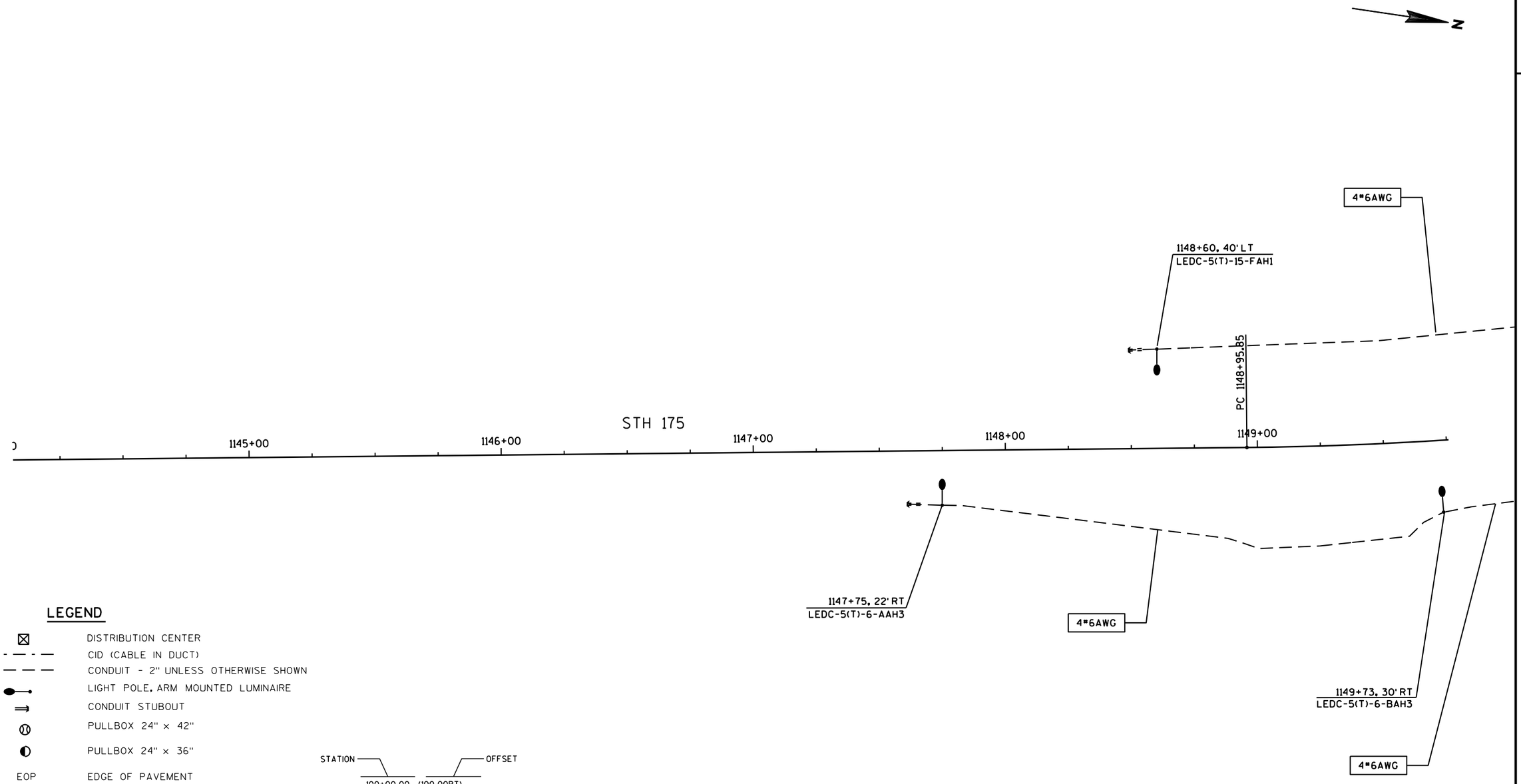
- ANSI — CIRCUIT, SOURCE, POLE #
- 4 — ARM LENGTH
- A(T) — POLE TYPE ON T-BASE
- C — LUMINAIRE CATEGORY
- LED — LUMINAIRE SOURCE

SHEET 1 OF 10

LIGHTING PLAN DESIGNED BY
WISDOT SE REGION

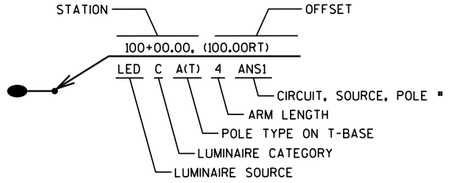
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	LIGHTING PLAN	SHEET 127	E

2



LEGEND

- DISTRIBUTION CENTER
- CID (CABLE IN DUCT)
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- CONDUIT STUBOUT
- PULLBOX 24" x 42"
- PULLBOX 24" x 36"
- EOP — EDGE OF PAVEMENT
- B.O.C. — BACK OF CURB
- C.I.M. — CENTER IN MEDIAN
- B.O.S. — BACK OF SIDEWALK
- MUNICIPAL LIGHT POLE



SHEET 2 OF 10

LIGHTING PLAN DESIGNED BY
WISDOT SE REGION

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	LIGHTING PLAN - SCHEMATIC	SHEET	E

FILE NAME : J:\projects\D2_336009175\70\LTG\023501a_Schematic_lp.dgn PLOT DATE : 20-OCT-2014 09:05 PLOT BY : mscppl PLOT NAME : PLOT SCALE : 40:1

2

LEGEND

- DISTRIBUTION CENTER
- CID (CABLE IN DUCT)
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- CONDUIT STUBOUT
- PULLBOX 24" x 42"
- PULLBOX 24" x 36"
- EOP — EDGE OF PAVEMENT
- B.O.C. — BACK OF CURB
- C.I.M. — CENTER IN MEDIAN
- B.O.S. — BACK OF SIDEWALK
- MUNICIPAL LIGHT POLE

STATION — OFFSET

100+00.00, (100.00RT)

LED C A(T) 4 ANS1

- ANS1 — CIRCUIT, SOURCE, POLE #
- 4 — ARM LENGTH
- A(T) — POLE TYPE ON T-BASE
- C — LUMINAIRE CATEGORY
- LED — LUMINAIRE SOURCE

N

STH 167

STH 175

4#6AWG

8#6AWG

3"

687+10, 35' RT
LEDC-5(T)-15-EAH2

1151+55, 45' LT
LEDC-5(T)-15-FAH2

1150+15, 45' LT
LEDC-5(T)-15-EAH1

1151+20, 45' LT
LPB103

1149+73, 30' RT
LEDC-5(T)-6-BAH3

1151+00, 40' RT
LPB102

1151+05, 42' RT
LEDC-5(T)-15-AAH2

688+85, 55' RT
LEDC-5(T)-15-BAH2

1153+05, 27' LT
LEDC-5(T)-15-HAH1

1153+35, 15' RT
LEDC-5(T)-15-GAH1

1153+45, 15' RT
LPB107

1154+95, 15' LT
LEDC-5(T)-15-HAH3

1154+40, 75' RT
LEDC-5(T)-6-DAH3

1153+25, 100' RT
LPB106

1152+75, 114' RT
LEDC-5(T)-15-CAH2

689+20, 40' LT
LEDC-5(T)-15-DAH2

PT 1152+78.75

PI 1150+88.45

687+00

688+00

689+00

1150+00

1151+00

1152+00

1153+00

1154+00

1155+00

SHEET 3 OF 10

LIGHTING PLAN DESIGNED BY
WISDOT SE REGION

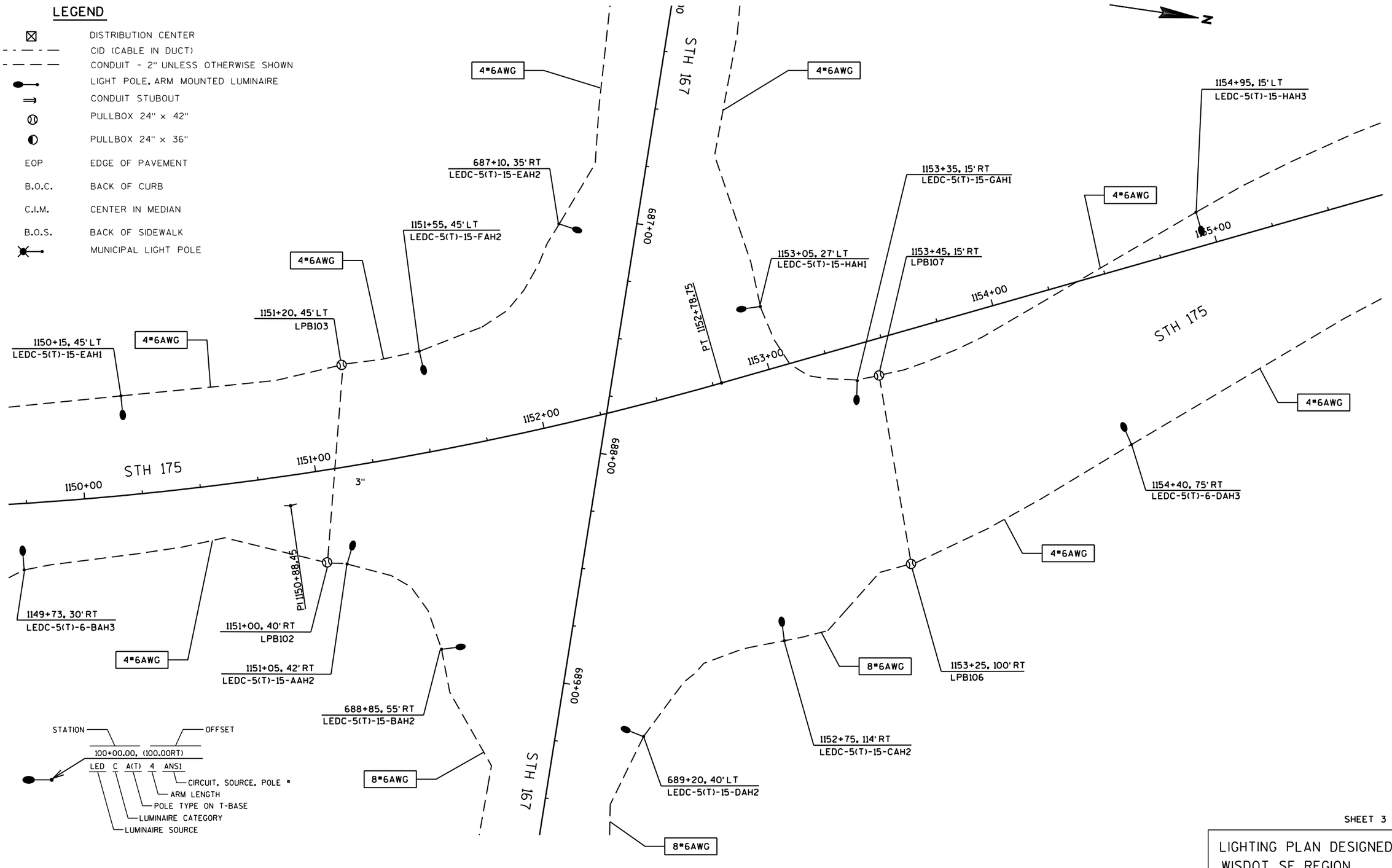
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	LIGHTING PLAN	SHEET 129 E

FILE NAME : J:\projects\D2_336009175\70\LTG\023502_LP.dgn PLOT DATE : 20-OCT-2014 09:05 PLOT BY : mscppl PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

- DISTRIBUTION CENTER
- CID (CABLE IN DUCT)
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- CONDUIT STUBOUT
- PULLBOX 24" x 42"
- PULLBOX 24" x 36"
- EOP — EDGE OF PAVEMENT
- B.O.C. — BACK OF CURB
- C.I.M. — CENTER IN MEDIAN
- B.O.S. — BACK OF SIDEWALK
- MUNICIPAL LIGHT POLE



SHEET 3 OF 10

LIGHTING PLAN DESIGNED BY WISDOT SE REGION

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	LIGHTING PLAN	SHEET 130 E

2

LEGEND

⊠	DISTRIBUTION CENTER
- · — · —	CID (CABLE IN DUCT)
— — —	CONDUIT - 2" UNLESS OTHERWISE SHOWN
●—	LIGHT POLE, ARM MOUNTED LUMINAIRE
⇒	CONDUIT STUBOUT
⊗	PULLBOX 24" x 42"
◐	PULLBOX 24" x 36"
EOP	EDGE OF PAVEMENT
B.O.C.	BACK OF CURB
C.I.M.	CENTER IN MEDIAN
B.O.S.	BACK OF SIDEWALK
✕—	MUNICIPAL LIGHT POLE

STATION — OFFSET

100+00.00, (100.00RT)

LED C A(T) 4 ANS1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

N

4#6AWG

1156+40, 34' LT
LEDC-5(T)-15-GAH3

1156+00 1157+00 1158+00 1159+00 1160+00 1161+00

STH 175

SIGN

4#6AWG

1156+10, 35' RT
LEDC-5(T)-6-CAH3

SHEET 5 OF 10

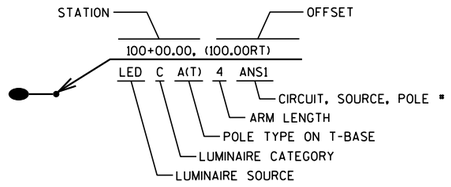
LIGHTING PLAN DESIGNED BY
WISDOT SE REGION

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	LIGHTING PLAN	SHEET 131	E

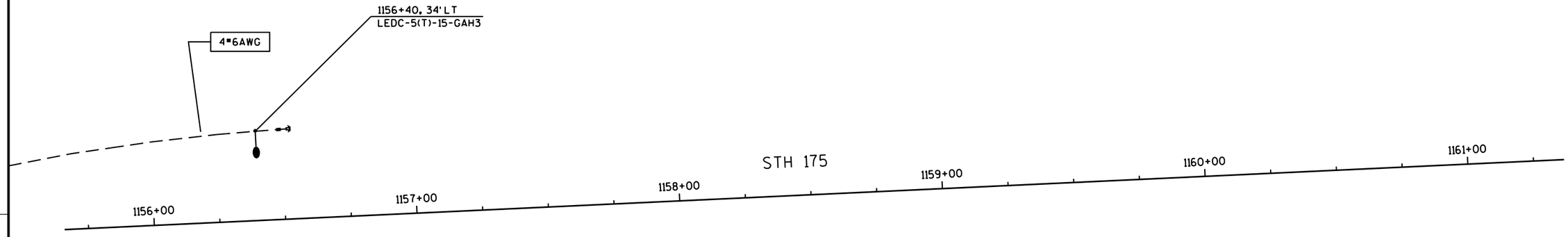
FILE NAME : J:\projects\D2_336009175\70\LTG\023503_LP.dgn PLOT DATE : 20-OCT-2014 09:05 PLOT BY : mscppl PLOT NAME : PLOT SCALE : 40:1

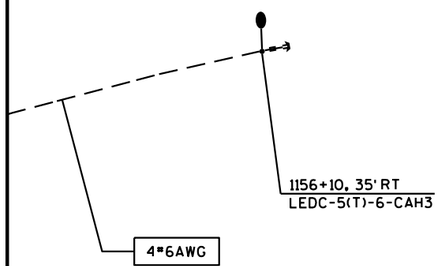
LEGEND

⊠	DISTRIBUTION CENTER
- - — · —	CID (CABLE IN DUCT)
— — —	CONDUIT - 2" UNLESS OTHERWISE SHOWN
●—	LIGHT POLE, ARM MOUNTED LUMINAIRE
⇒	CONDUIT STUBOUT
⊗	PULLBOX 24" x 42"
◐	PULLBOX 24" x 36"
EOP	EDGE OF PAVEMENT
B.O.C.	BACK OF CURB
C.I.M.	CENTER IN MEDIAN
B.O.S.	BACK OF SIDEWALK
✳—	MUNICIPAL LIGHT POLE









SHEET 6 OF 10

LIGHTING PLAN DESIGNED BY
WISDOT SE REGION

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	LIGHTING PLAN - SCHEMATIC	SHEET 132	E

2

LEGEND

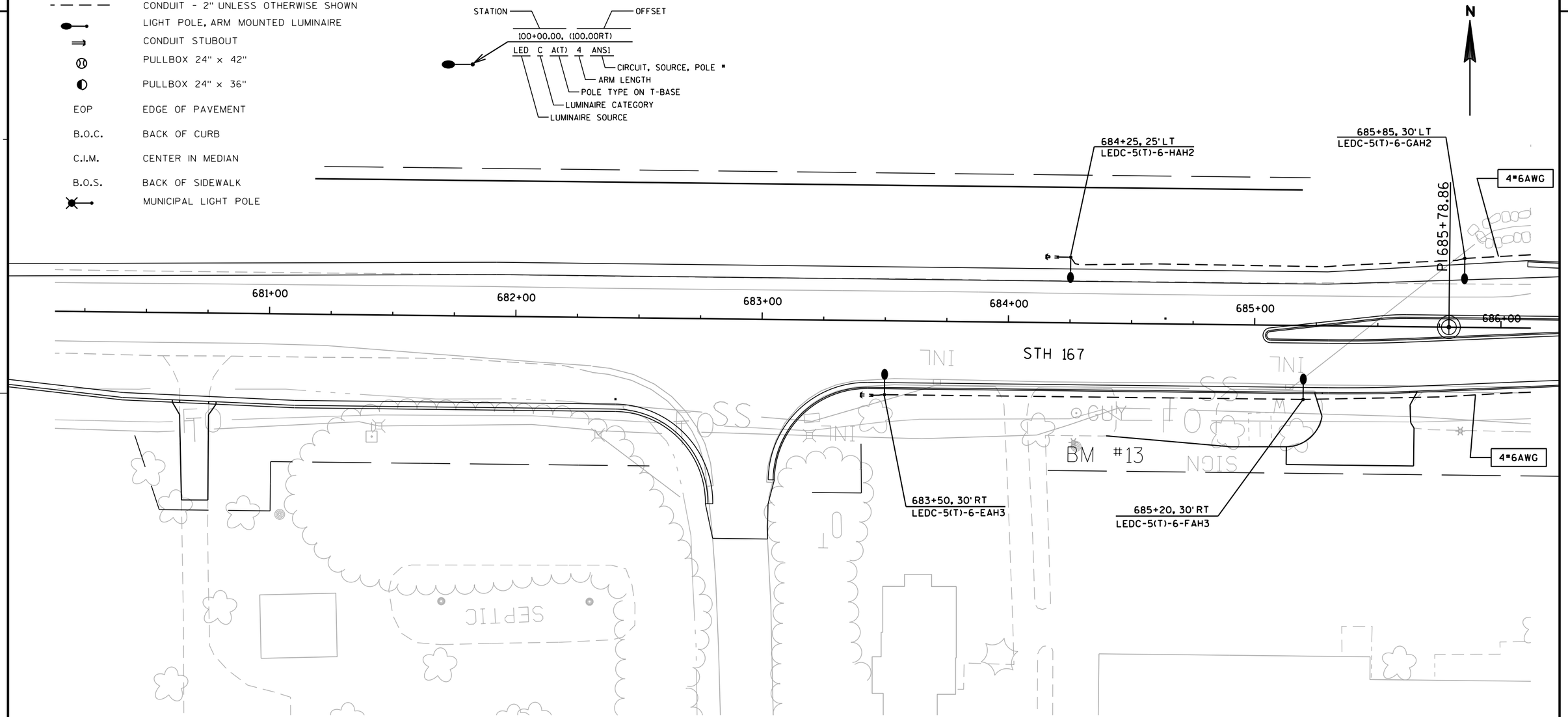
- DISTRIBUTION CENTER
- CID (CABLE IN DUCT)
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- CONDUIT STUBOUT
- PULLBOX 24" x 42"
- PULLBOX 24" x 36"
- EOP — EDGE OF PAVEMENT
- B.O.C. — BACK OF CURB
- C.I.M. — CENTER IN MEDIAN
- B.O.S. — BACK OF SIDEWALK
- MUNICIPAL LIGHT POLE

STATION — OFFSET

100+00.00, (100.00RT)

LED C A(T) 4 ANS1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE



SHEET 7 OF 10

LIGHTING PLAN DESIGNED BY WISDOT SE REGION

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	LIGHTING PLAN	SHEET 133 E

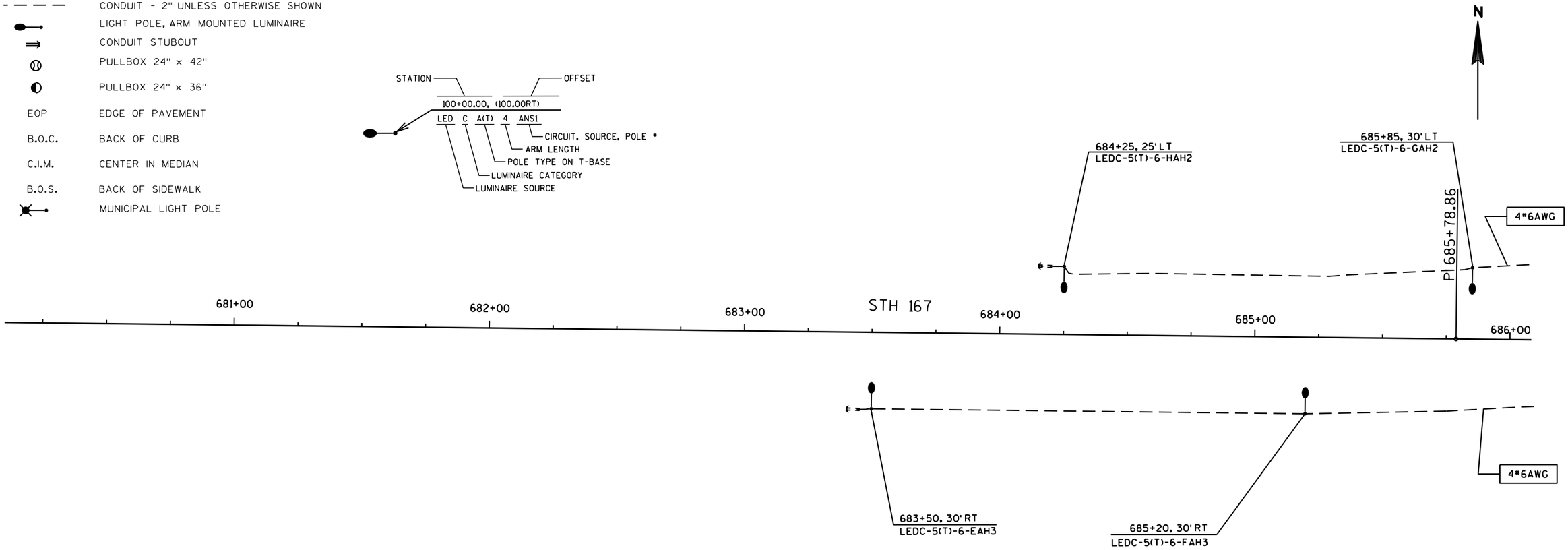
FILE NAME : J:\projects\D2_336009175\70\LTG\023504_LP.dgn PLOT DATE : 20-OCT-2014 09:05 PLOT BY : mscppl PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

- ⊠ DISTRIBUTION CENTER
- CID (CABLE IN DUCT)
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- CONDUIT STUBOUT
- PULLBOX 24" x 42"
- PULLBOX 24" x 36"
- EOP EDGE OF PAVEMENT
- B.O.C. BACK OF CURB
- C.I.M. CENTER IN MEDIAN
- B.O.S. BACK OF SIDEWALK
- MUNICIPAL LIGHT POLE



SHEET 8 OF 10

LIGHTING PLAN DESIGNED BY
WISDOT SE REGION

PROJECT NO: 3360-09- 70	HWY: STH 175	COUNTY: WASHINGTON	LIGHTING PLAN - SCHEMATIC	SHEET 134	E

2

N

690+00, 35' LT
LPB105

690+00, 8' LT (CIM)
LPB104

4#6AWG

690+85, 40' LT
LEDC-5(T)-6-CAH1

692+50, 35' LT
LEDC-5(T)-6-DAH1

3"

690+00

3"

691+00

692+00

STH 167

693+00

694+00

695+00

3-3"

690+00, 30' RT
LPB101

690+00, 40' RT
HL-66-AH

4#6AWG

690+45, 35' RT
LEDC-5(T)-6-AAH1

692+00, 30' RT
LEDC-5(T)-6-BAH1

LEGEND

⊠	DISTRIBUTION CENTER
- - - -	CID (CABLE IN DUCT)
— — —	CONDUIT - 2" UNLESS OTHERWISE SHOWN
●—	LIGHT POLE, ARM MOUNTED LUMINAIRE
⇒	CONDUIT STUBOUT
⊠	PULLBOX 24" x 42"
◐	PULLBOX 24" x 36"
EOP	EDGE OF PAVEMENT
B.O.C.	BACK OF CURB
C.I.M.	CENTER IN MEDIAN
B.O.S.	BACK OF SIDEWALK
✕—	MUNICIPAL LIGHT POLE

STATION — OFFSET

100+00.00, (100.00RT)

LED C A(T) 4 ANSI

- LED — LUMINAIRE SOURCE
- C — LUMINAIRE CATEGORY
- A(T) — POLE TYPE ON T-BASE
- 4 — ARM LENGTH
- ANSI — CIRCUIT, SOURCE, POLE #

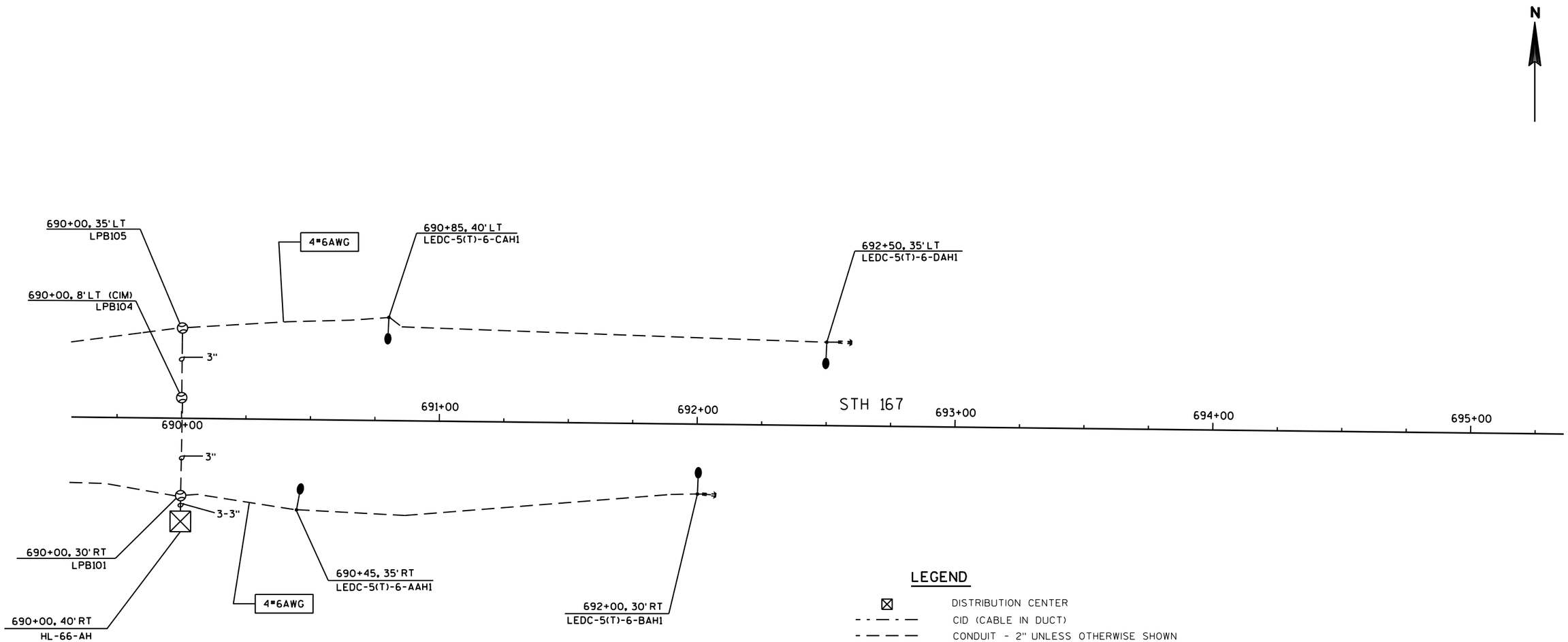
SHEET 9 OF 10

LIGHTING PLAN DESIGNED BY
WISDOT SE REGION

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	LIGHTING PLAN	SHEET	E

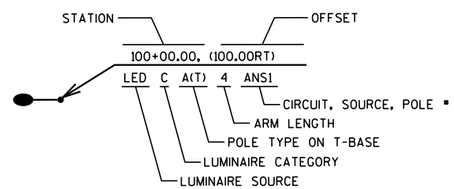
FILE NAME : J:\projects\D2_336009175\70\LTG\023505_LP.dgn PLOT DATE : 20-OCT-2014 09:06 PLOT BY : mscppl PLOT NAME : PLOT SCALE : 40:1

2



LEGEND

⊠	DISTRIBUTION CENTER
- - — - —	CID (CABLE IN DUCT)
— — —	CONDUIT - 2" UNLESS OTHERWISE SHOWN
●—	LIGHT POLE, ARM MOUNTED LUMINAIRE
⇉	CONDUIT STUBOUT
⊠	PULLBOX 24" x 42"
◐	PULLBOX 24" x 36"
EOP	EDGE OF PAVEMENT
B.O.C.	BACK OF CURB
C.I.M.	CENTER IN MEDIAN
B.O.S.	BACK OF SIDEWALK
✕—	MUNICIPAL LIGHT POLE



SHEET 10 OF 10

LIGHTING PLAN DESIGNED BY
WISDOT SE REGION

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	LIGHTING PLAN - SCHEMATIC	SHEET 136 E

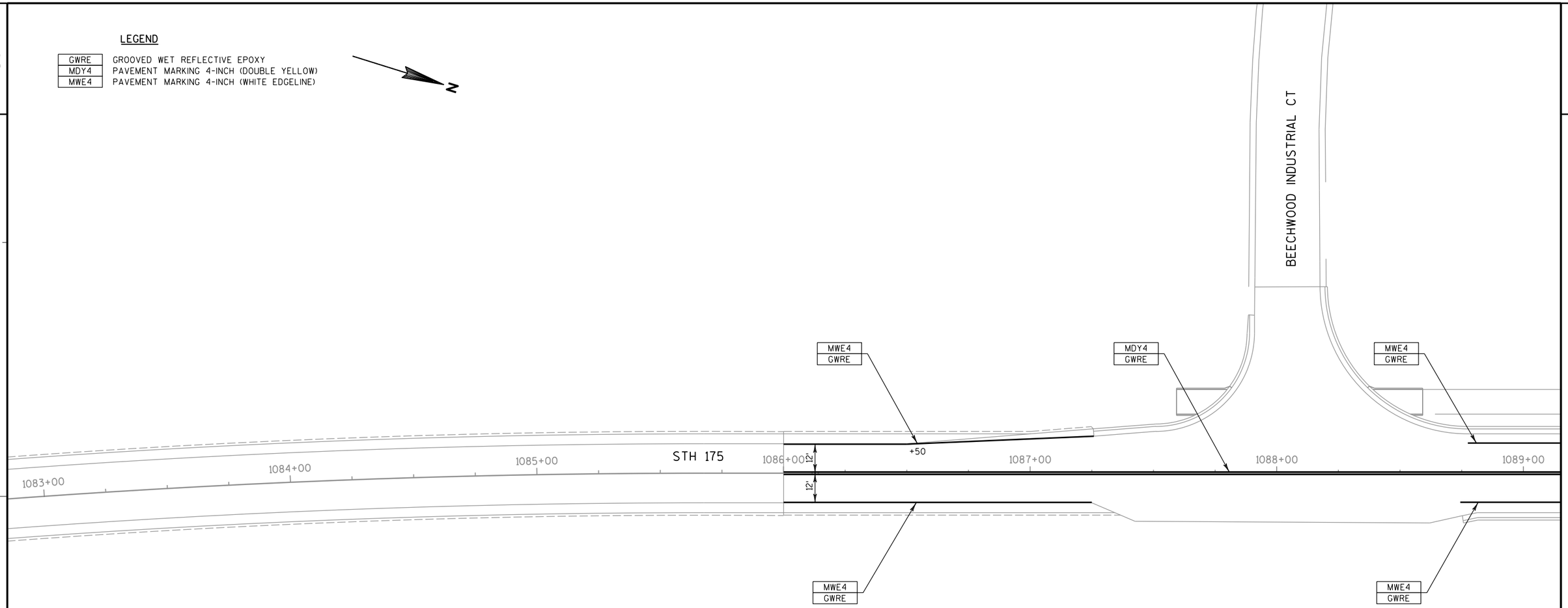
2

2

LEGEND

GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)

N



NOTE

CENTERLINE PAVEMENT MARKING LOCATIONS ARE ESTIMATED. LOCATED AND ADJUST AS NEEDED WITH BID ITEM "LOCATING NO-PASSING ZONES".

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 137	E

FILE NAME : P:\43xx\4340\Plan\Pavement Marking\Urban\em_024501_pm.dgn PLOT DATE : 5/16/2015 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

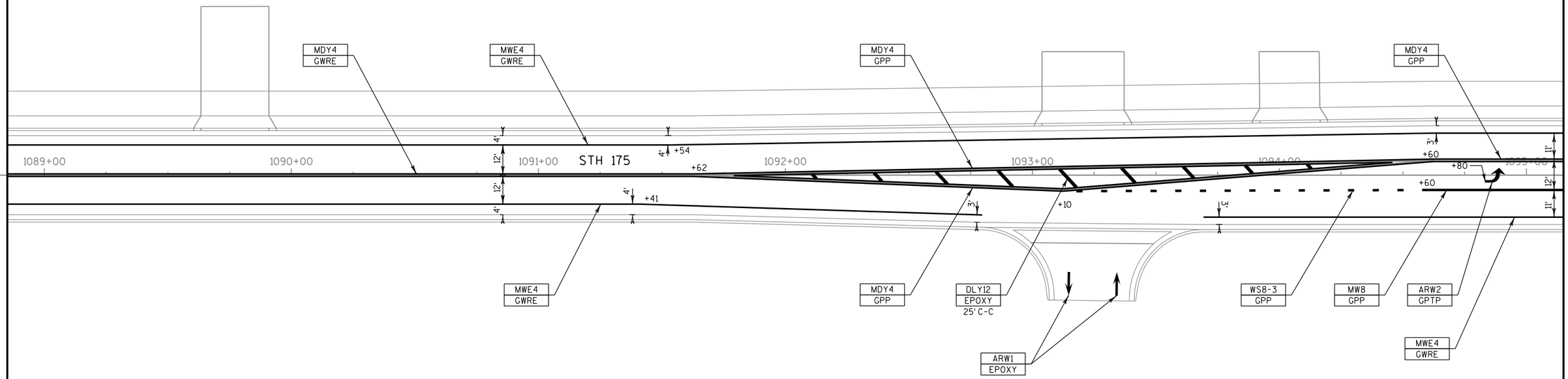
2

2

LEGEND

ARW1	PAVEMENT MARKING ARROWS TYPE 1 (WHITE)
ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
EPOXY	EPOXY
GPP	GROOVED PREFORMED PLASTIC
GPTP	GROOVED PREFORMED THERMOPLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW8	PAVEMENT MARKING 8-INCH (WHITE CHANNELIZING)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP)(3' SEG., 9' GAP)

N



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 138	E

FILE NAME : P:\43xx\4340\Plan\Pavement Marking\Urban\em_024502_pm.dgn PLOT DATE : 5/16/2015 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

LEGEND

ARW1	PAVEMENT MARKING ARROWS TYPE 1(WHITE)
ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
CWW6	PAVEMENT MARKING CROSSWALK 6-INCH (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
EPOXY	EPOXY
GPP	GROOVED PREFORMED PLASTIC
GPTP	GROOVED PREFORMED THERMOPLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW8	PAVEMENT MARKING 8-INCH (WHITE CHANNELIZING)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
WDW	PAVEMENT MARKING WORDS (WHITE)("ONLY")
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP)(3' SEG., 9' GAP))

N

HUBERTUS RD

99+00"HU"

MDY4 CONTINUES TO STA 97+00"HU"
MWE4 STARTS AT STA 97+50"HU"RT AND STA 97+50"HU"LT AND CONTINUES TO 97+00"HU"

MW8 GPP
SLW18 GPTP
SLW18 GPTP
CWW6 GPTP
+36
MDY4 GWRE
CWW6 GPTP
SLW18 GPTP
ARW2 GPTP
MWE4 GWRE
MDY4 GPP
WDW GPTP
MW8 GPP
MWE4 GWRE
ARW1 EPOXY
WS8-3 GPP

STH 175

11' 12' 11' 3' 3'

1095+00 1096+00 1097+00 1098+00 1099+00 1100+00 1101+00

+84 +89 +09 +83 +03 +04 +05 +25 +25

WDW GPTP
MW8 GPP
MWE4 GWRE
ARW2 GPTP
SLW18 GPTP
MDY4 GPP
MWE4 GWRE
ARW2 GPTP
MDY4 GPP
DLY12 EPOXY 25' C-C

+32
+52
SLW18 GPTP
ARW2 GPTP
FREISTADT RD
101+00"HU"
ONLY
MW8 GPP
WDW GPTP
MDY4 GWRE
+40
ARW2 GPTP
+60
WS8-3 GPP
MWE4 GWRE

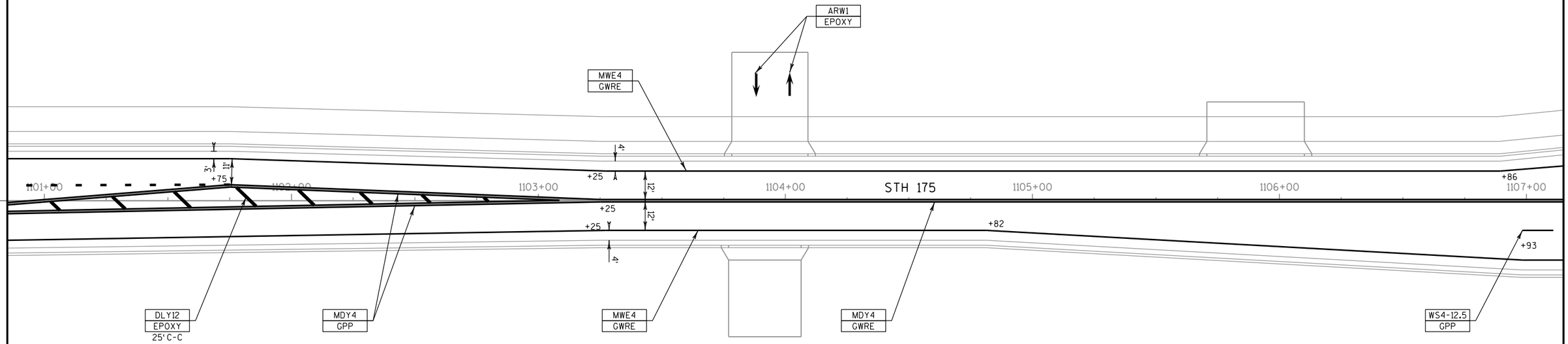
MDY4 CONTINUES TO STA 103+55"HU"
MWE4 STARTS AT STA 101+60"HU" LT AND STA 103+00"HU" RT AND CONTINUES TO 103+55"HU"

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 139	E

2

LEGEND

ARW1	PAVEMENT MARKING ARROWS TYPE 1(WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
EPOXY	EPOXY
GPP	GROOVED PREFORMED PLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
WS4-12.5	PAVEMENT MARKING 4-INCH (WHITE SKIP)(12.5' SEG., 37.5' GAP)



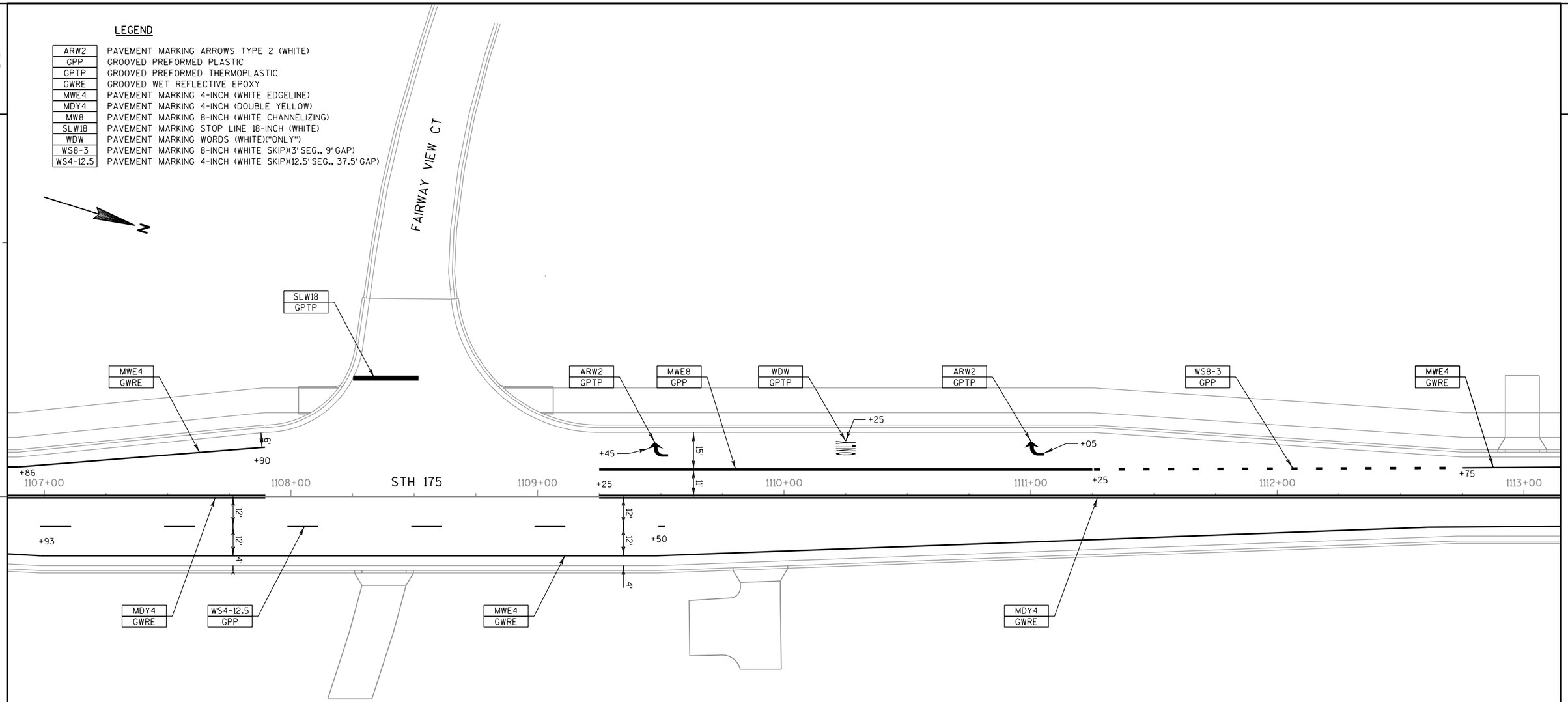
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PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 140	E

2

LEGEND

ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
GPP	GROOVED PREFORMED PLASTIC
GPTP	GROOVED PREFORMED THERMOPLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW8	PAVEMENT MARKING 8-INCH (WHITE CHANNELIZING)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
WDW	PAVEMENT MARKING WORDS (WHITE)("ONLY")
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP)(3' SEG., 9' GAP)
WS4-12.5	PAVEMENT MARKING 4-INCH (WHITE SKIP)(12.5' SEG., 37.5' GAP)



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 141 E

FILE NAME : P:\43xx\4340\Plan\Pavement Marking\Urban\em_024505_pm.dgn PLOT DATE : 5/16/2015 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:40

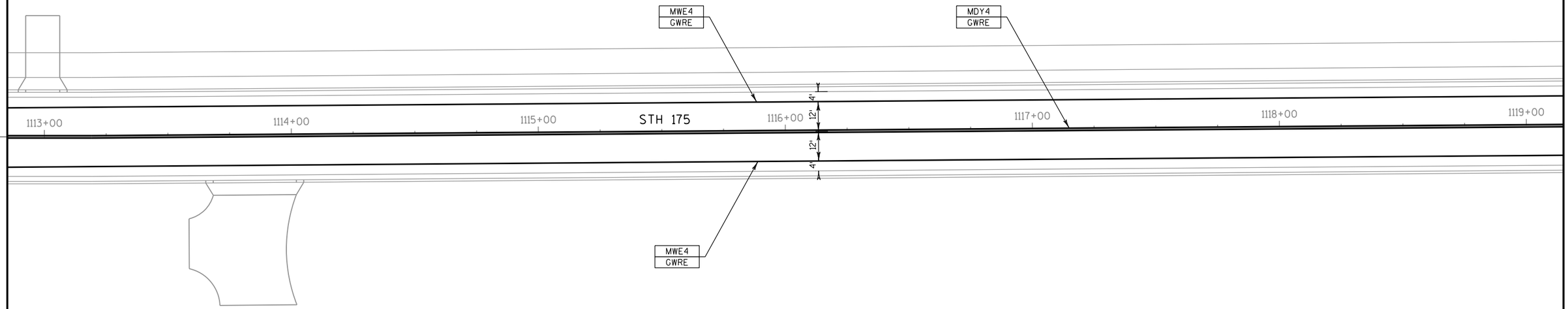
WISDOT/CADDS SHEET 42

2

2

LEGEND

GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 142 E

FILE NAME : P:\43xx\4340\Plan\Pavement Marking\Urban\em_024506_pm.dgn PLOT DATE : 5/16/2015 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:40

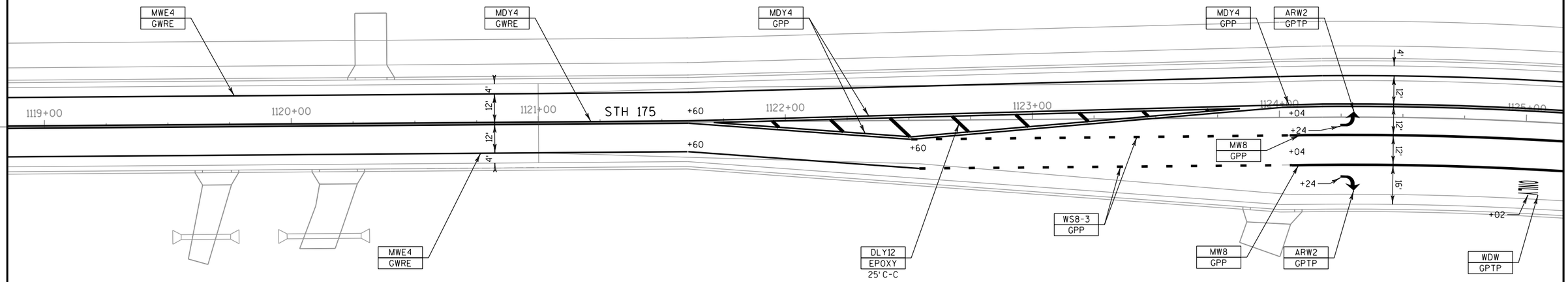
WISDOT/CADDS SHEET 42

2

2

LEGEND

ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
EPOXY	EPOXY
GPP	GROOVED PREFORMED PLASTIC
GPTP	GROOVED PREFORMED THERMOPLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW8	PAVEMENT MARKING 8-INCH (WHITE CHANNELIZING)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)
WDW	PAVEMENT MARKING WORDS (WHITE)("ONLY")
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP)(3' SEG., 9' GAP)



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 143 E

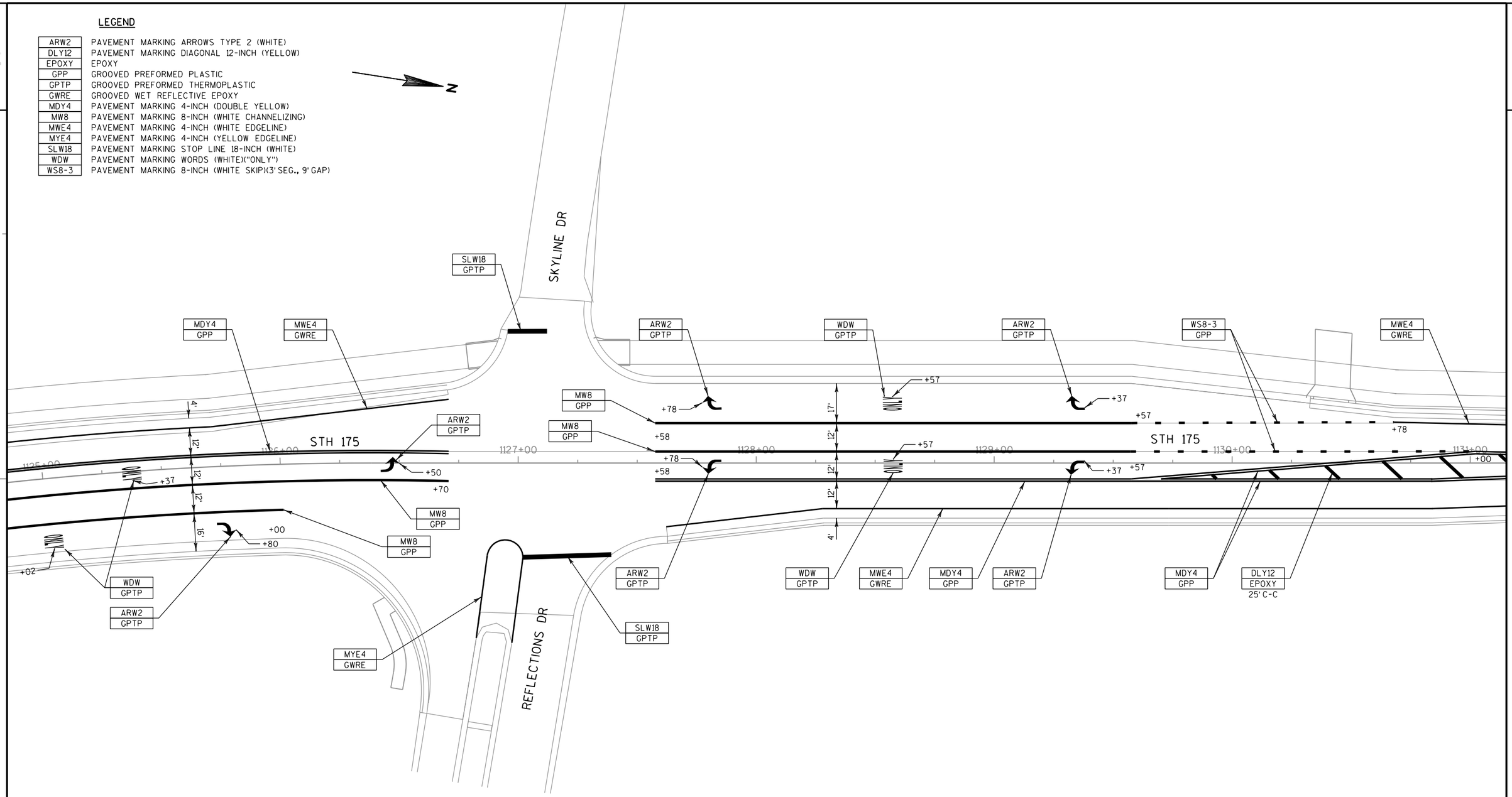
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WISDOT/CADDS SHEET 42

2

LEGEND

ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
EPOXY	EPOXY
GPP	GROOVED PREFORMED PLASTIC
GPTP	GROOVED PREFORMED THERMOPLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW8	PAVEMENT MARKING 8-INCH (WHITE CHANNELIZING)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)
MYE4	PAVEMENT MARKING 4-INCH (YELLOW EDGELINE)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)
WDW	PAVEMENT MARKING WORDS (WHITE)("ONLY")
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP)(3' SEG., 9' GAP)



2

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 144	E

FILE NAME : P:\43xx\4340\Plan\Pavement Marking\Urban\em_024508_pm.dgn PLOT DATE : 5/16/2015 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:40

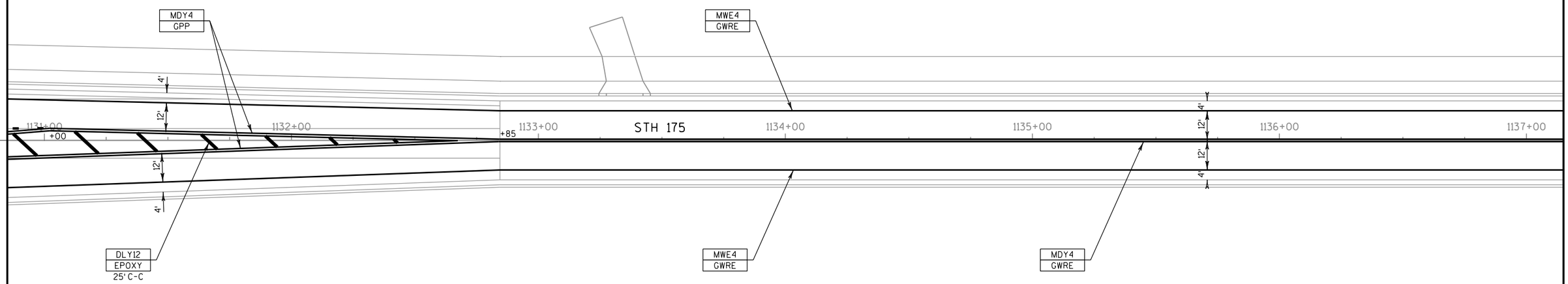
WISDOT/CADDS SHEET 42

2

LEGEND

DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
EPOXY	EPOXY
GPP	GROOVED PREFORMED PLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)

N



2

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 145 E

FILE NAME : P:\43xx\4340\Plan\Pavement Marking\Urban\em_024509_pm.dgn PLOT DATE : 5/16/2015 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

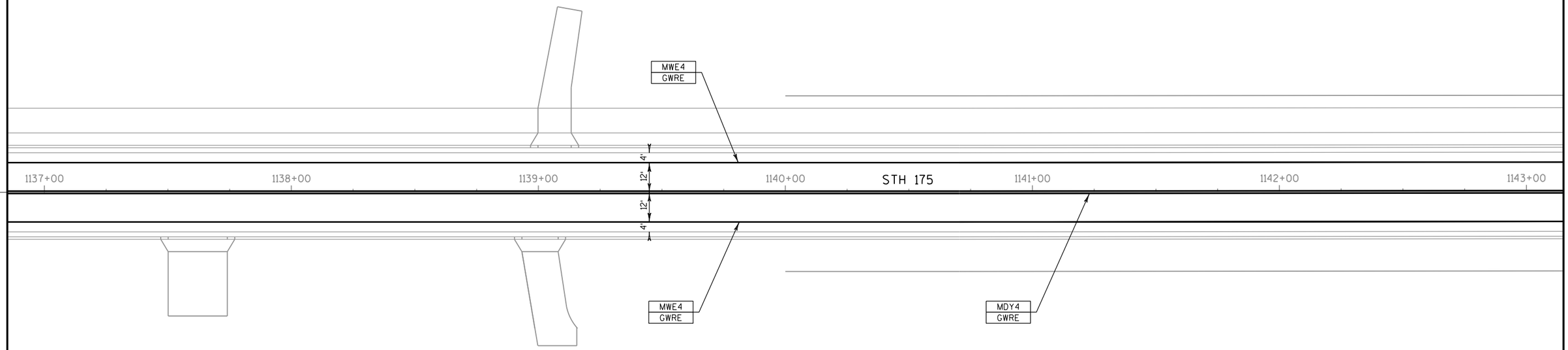
2

2

LEGEND

GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)

N



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 146 E

FILE NAME : P:\43xx\4340\Plan\Pavement Marking\Urban\em_024510_pm.dgn PLOT DATE : 5/16/2015 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:40

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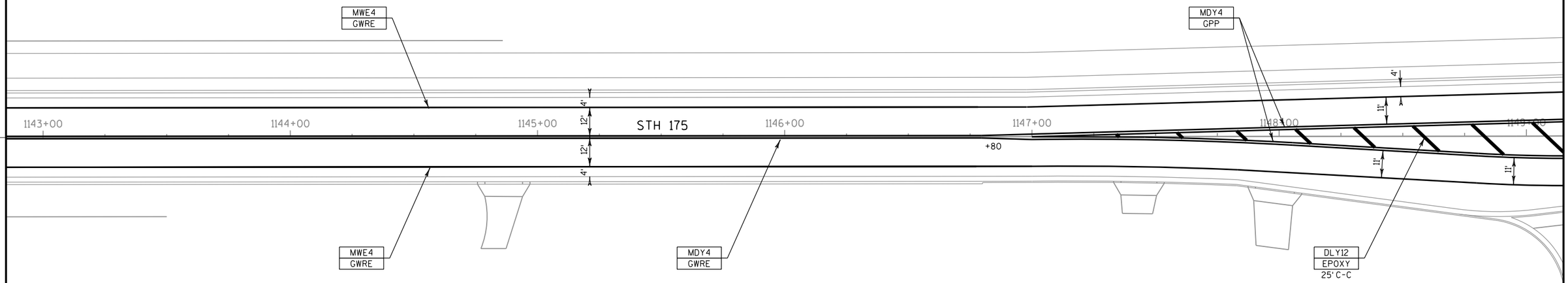
2

2

LEGEND

DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
EPOXY	EPOXY
GPP	GROOVED PREFORMED PLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)

N



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 147	E

2

LEGEND

ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
ARW3	PAVEMENT MARKING ARROWS TYPE 3 (WHITE)
ARW3R	PAVEMENT MARKING ARROWS TYPE 3R (WHITE)
CBY	PAVEMENT MARKING CURB (YELLOW)
CWW24	PAVEMENT MARKING CROSSWALK 24-INCH (WHITE)
DLW12	PAVEMENT MARKING DIAGONAL 12-INCH (WHITE)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
EPOXY	EPOXY
GPP	GROOVED PREFORMED PLASTIC
GPTP	GROOVED PREFORMED THERMOPLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW8	PAVEMENT MARKING 8-INCH (WHITE CHANNELIZING)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)
MYE4	PAVEMENT MARKING 4-INCH (YELLOW EDGELINE)
WDW	PAVEMENT MARKING WORDS (WHITE)("YIELD","ONLY")
WS4-3	PAVEMENT MARKING 4-INCH (WHITE SKIP)(3' SEG., 9' GAP)
WS18-2	PAVEMENT MARKING 18-INCH (WHITE SKIP)(2' SEG., 2' GAP)

N

SEE PAVEMENT MARKING - STH 167

STH 175

STH 167

1150+00"A"

1150+00"B"

1151+00"A"

1151+00"B"

1152+00

1153+00

1153+00"E"

1154+00

1154+00"E"

1154+00"F"

1155+00

1155+00"E"

1155+00"F"

687+00"C"

687+00"D"

690+00"C"

690+00"D"

SEE PAVEMENT MARKING - STH 167

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 148 E

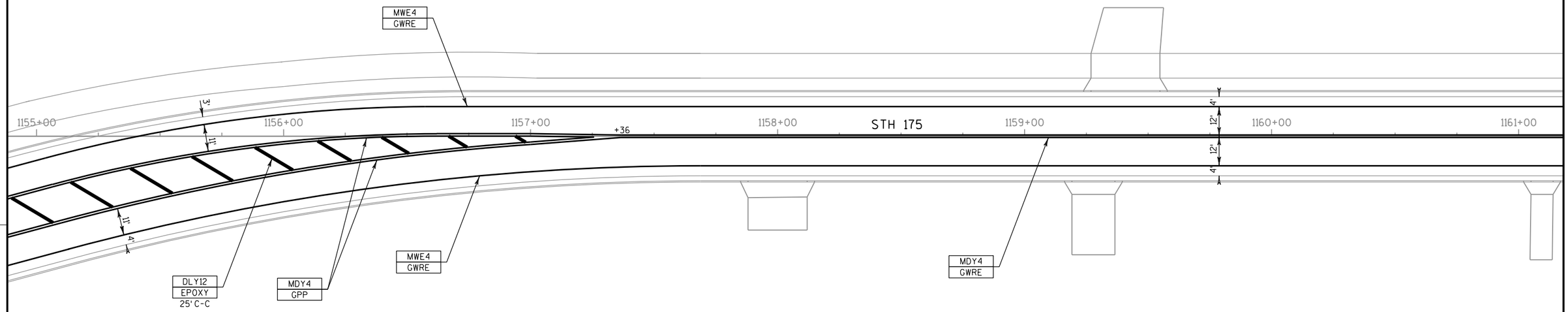
2

2

LEGEND

DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
EPOXY	EPOXY
GPP	GROOVED PREFORMED PLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)

N



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 149 E

FILE NAME : P:\43xx\4340\Plan\Pavement Marking\Urban\em_024513_pm.dgn PLOT DATE : 5/16/2015 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

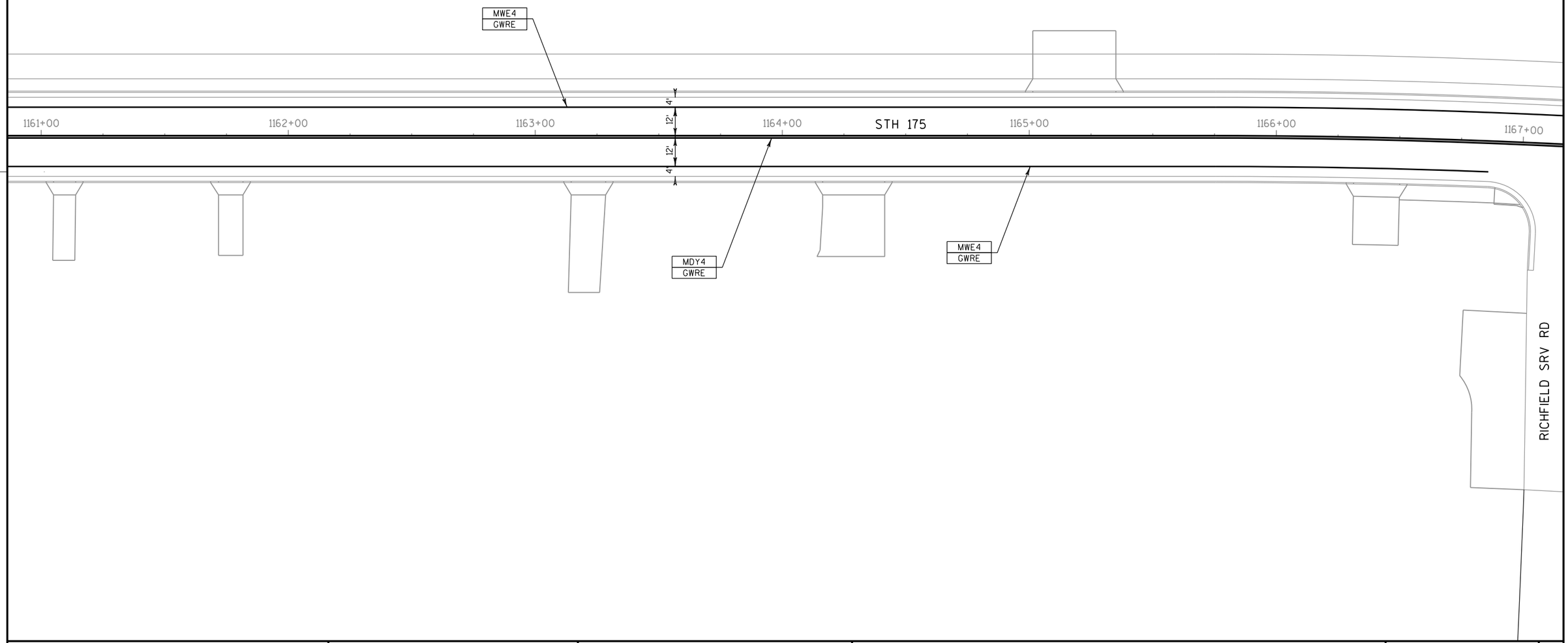
2

2

LEGEND

GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)

N



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 150	E

FILE NAME : P:\43xx\4340\Plan\Pavement Marking\Urban\em_024514_pm.dgn PLOT DATE : 5/16/2015 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

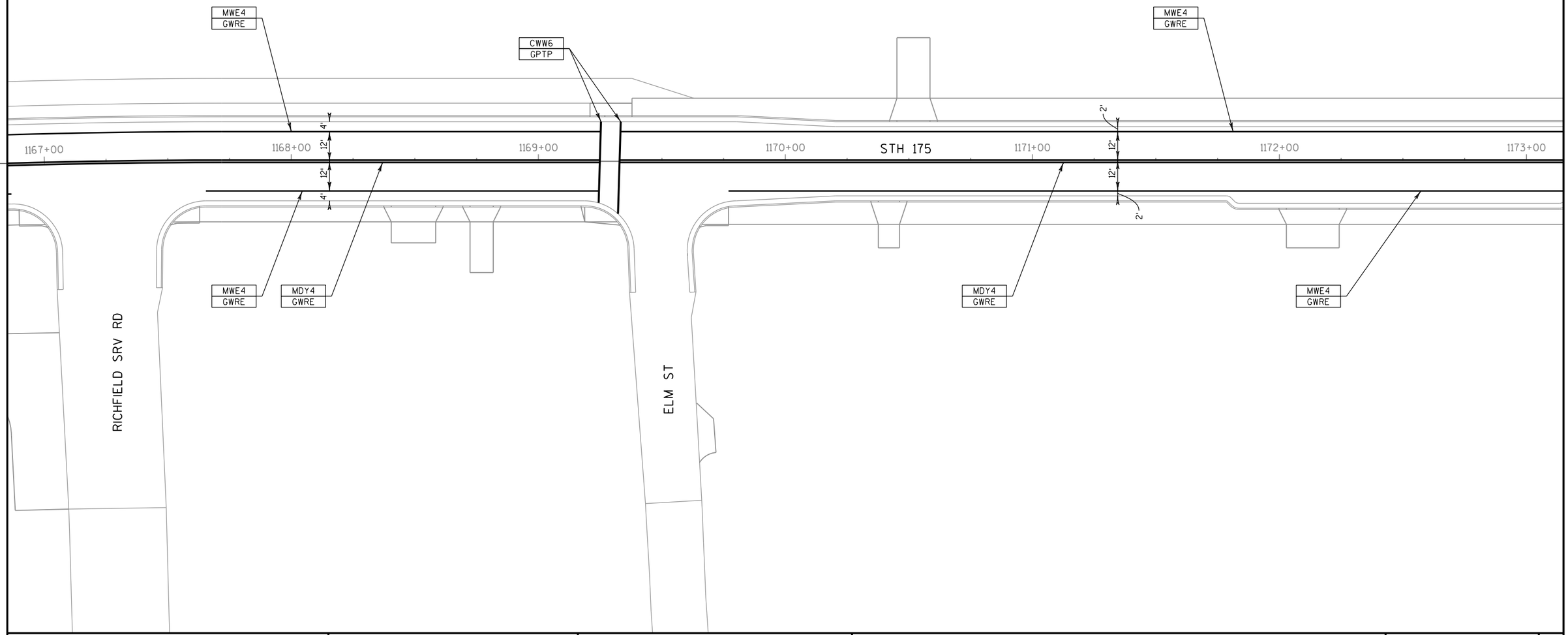
2

2

LEGEND

CWW6	PAVEMENT MARKING CROSSWALK 6-INCH (WHITE)
GPTP	GROOVED PREFORMED THERMOPLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)

N



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 151 E

FILE NAME : P:\43xx\4340\Plan\Pavement Marking\Urban\em_024515_pm.dgn PLOT DATE : 5/16/2015 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

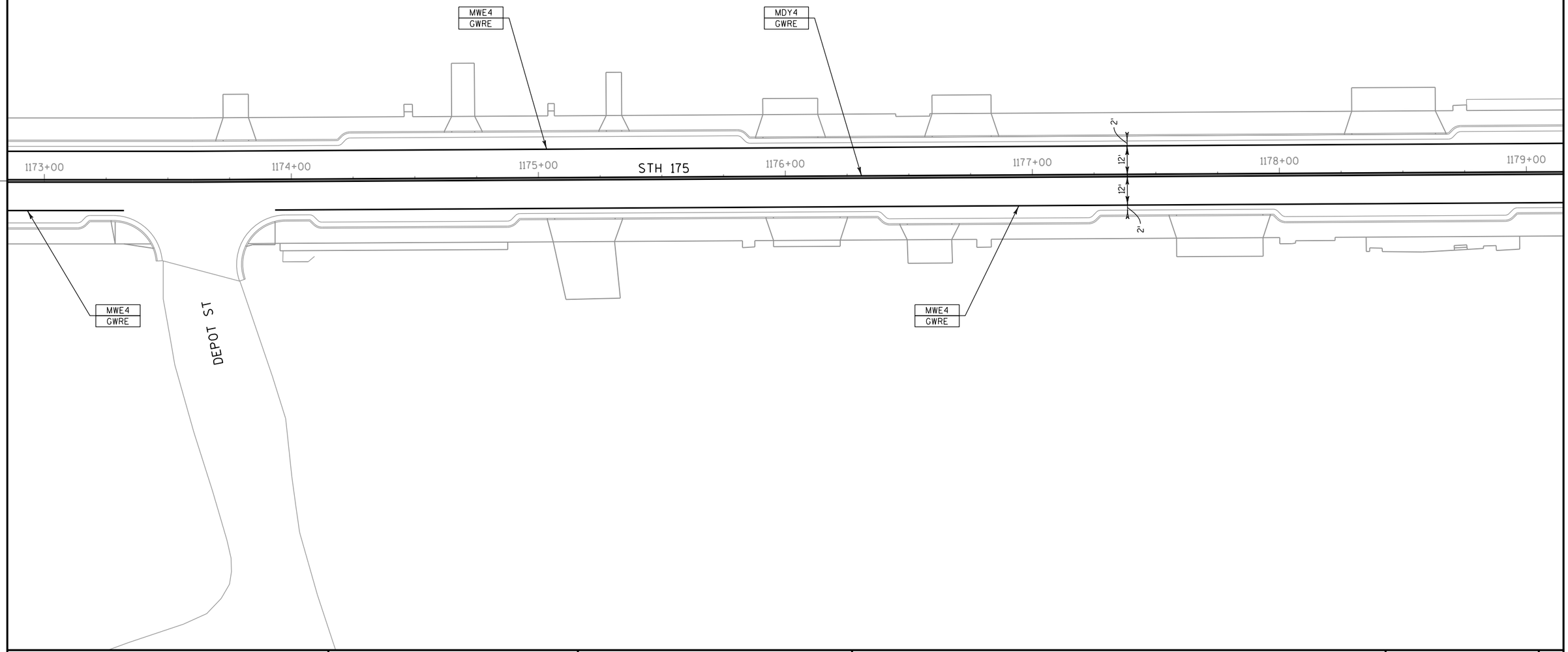
2

2

LEGEND

GPTP	GROOVED PREFORMED THERMOPLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)

N



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 152 E

FILE NAME : P:\43xx\4340\Plan\Pavement Marking\Urban\em_024516_pm.dgn PLOT DATE : 5/16/2015 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

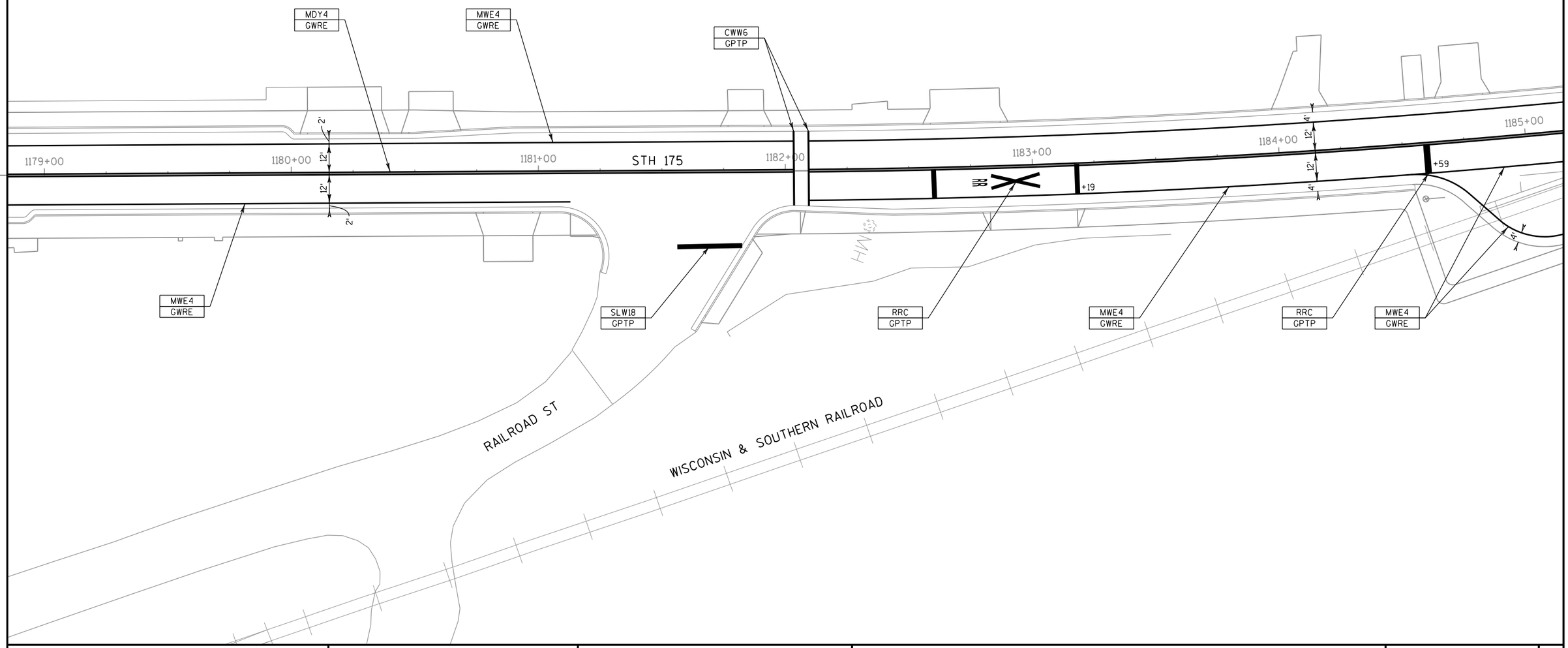
2

2

LEGEND

CWW6	PAVEMENT MARKING CROSSWALK 6-INCH (WHITE)
GPTP	GROOVED PREFORMED THERMOPLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)
RRC	PAVEMENT MARKING RAILROAD CROSSINGS (WHITE)
SLW18	PAVEMENT MARKING STOP LINE 18-INCH (WHITE)

N



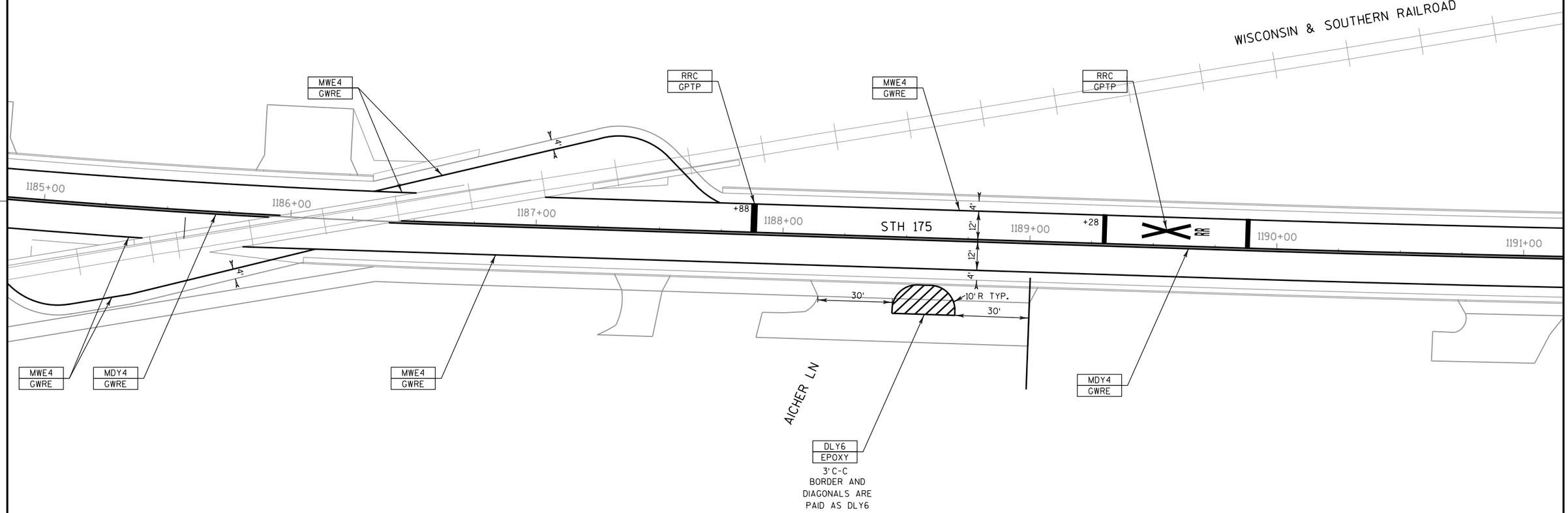
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 153 E

2

2

LEGEND

DLY6	PAVEMENT MARKING DIAGONAL 6-INCH (YELLOW)
EPOXY	EPOXY
GPTP	GROOVED PREFORMED THERMOPLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)
RRC	PAVEMENT MARKING RAILROAD CROSSINGS (WHITE)



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 154	E

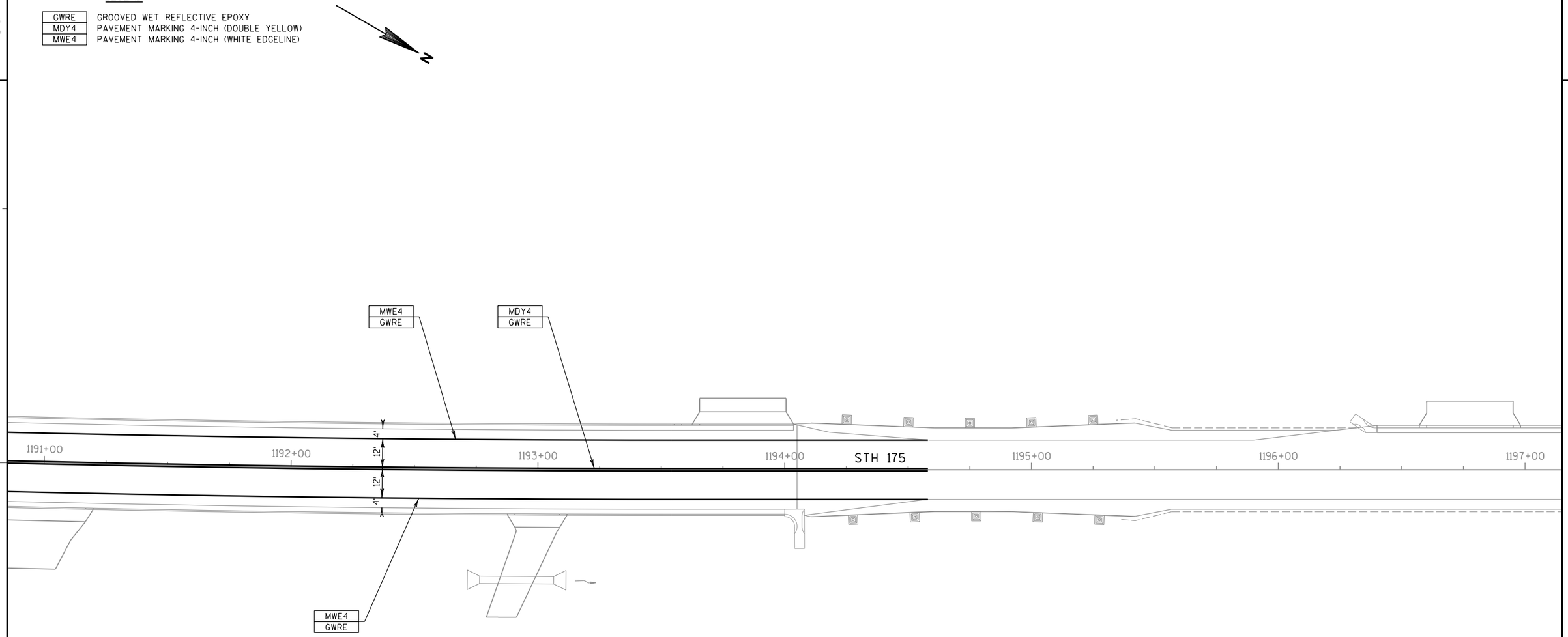
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2

2

LEGEND

GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING	SHEET 155 E

FILE NAME : P:\43xx\4340\Plan\Pavement Marking\Urban\em_024519_pm.dgn PLOT DATE : 5/16/2015 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:40

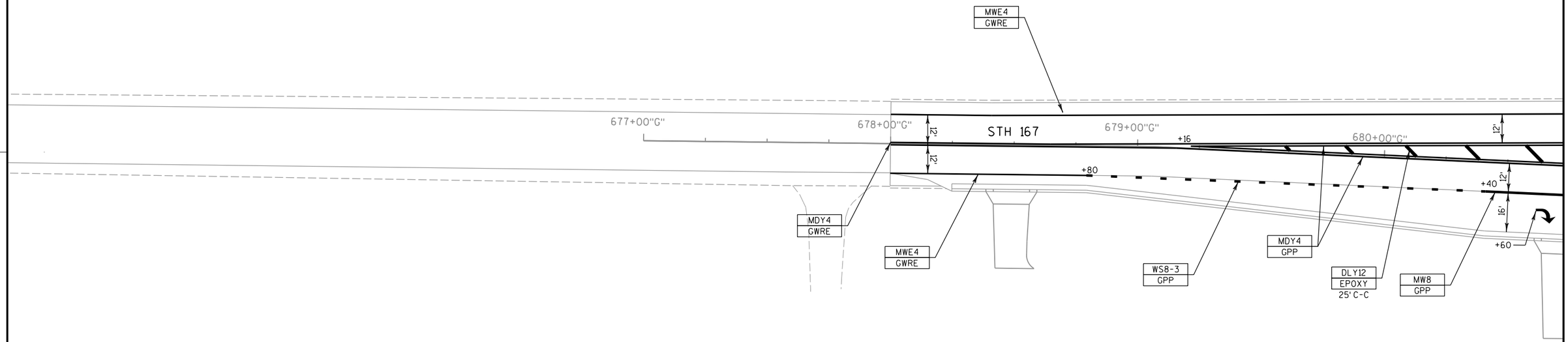
WISDOT/CADDS SHEET 42

2

LEGEND

DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
EPOXY	EPOXY
GPP	GROOVED PREFORMED PLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW8	PAVEMENT MARKING 8-INCH (WHITE CHANNELIZING)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)
WS4-3	PAVEMENT MARKING 4-INCH (WHITE SKIP)(3' SEG., 9' GAP)
WS8-3	PAVEMENT MARKING 8-INCH (WHITE SKIP)(3' SEG., 9' GAP)

N



2

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING - STH 167	SHEET 156	E

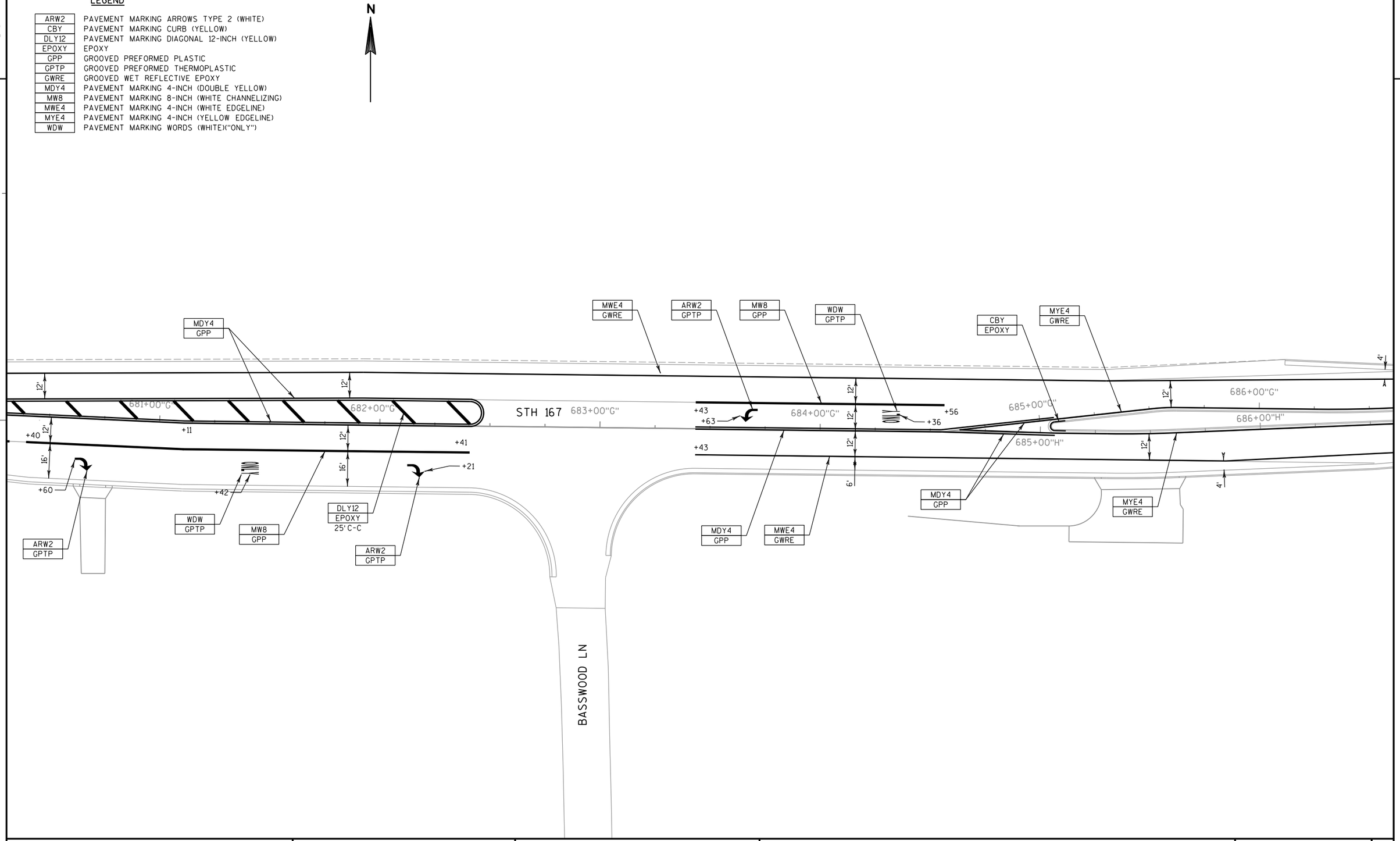
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WISDOT/CADDS SHEET 42

2

LEGEND

ARW2	PAVEMENT MARKING ARROWS TYPE 2 (WHITE)
CBY	PAVEMENT MARKING CURB (YELLOW)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
EPOXY	EPOXY
GPP	GROOVED PREFORMED PLASTIC
GPTP	GROOVED PREFORMED THERMOPLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MW8	PAVEMENT MARKING 8-INCH (WHITE CHANNELIZING)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)
MYE4	PAVEMENT MARKING 4-INCH (YELLOW EDGELINE)
WDW	PAVEMENT MARKING WORDS (WHITE)("ONLY")



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING - STH 167	SHEET 157 E

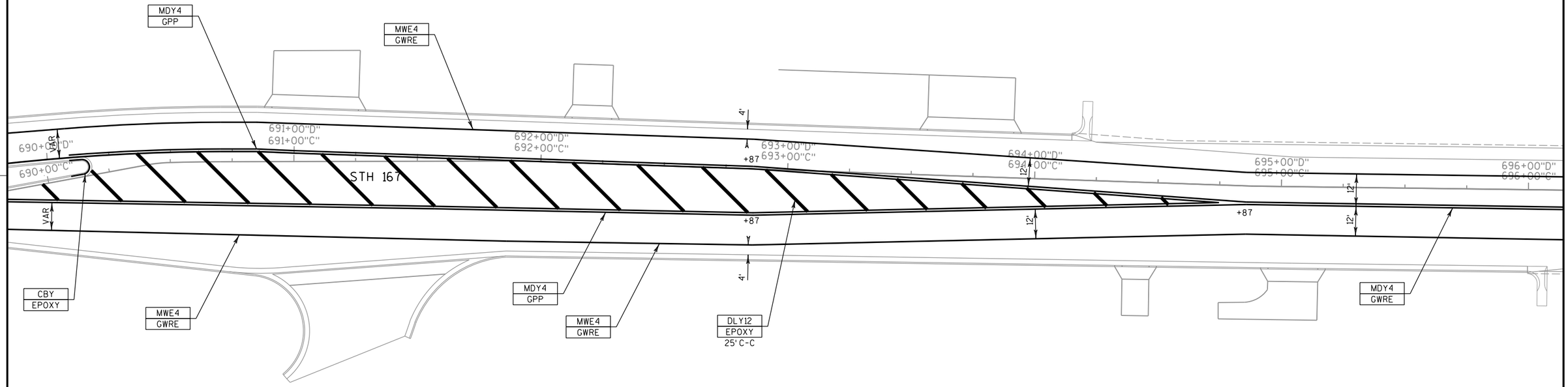
2

2

LEGEND

CBY	PAVEMENT MARKING CURB (YELLOW)
DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
EPOXY	EPOXY
GPP	GROOVED PREFORMED PLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)

N



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING - STH 167	SHEET 158 E

FILE NAME : P:\43xx\4340\Plan\Pavement Marking\Urban\em_024522_pm.dgn PLOT DATE : 5/16/2015 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

LEGEND

DLY12	PAVEMENT MARKING DIAGONAL 12-INCH (YELLOW)
GPTP	GROOVED PREFORMED THERMOPLASTIC
GWRE	GROOVED WET REFLECTIVE EPOXY
MDY4	PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
MWE4	PAVEMENT MARKING 4-INCH (WHITE EDGELINE)
RRC	PAVEMENT MARKING RAILROAD CROSSINGS (WHITE)

N

WISCONSIN & SOUTHERN RAILROAD

WOLF DR

MWE4
GWRE

RRC
GPTP

SEE SIGNING AND PAVEMENT MARKING DETAILS FOR RAILORAD - HIGHWAY GRADE CROSSINGS SDD

696+00"D"
696+00"C"

697+00"D"
697+00"C"

698+00"D"
698+00"C"
+96

699+00"D"
699+00"C"

700+00"D"
700+00"C"

STH 167

12'

12'

+82

+22

STH 167

RRC
GPTP

RRC
GPTP

MDY4
GWRE

MWE4
GWRE

RRC
GPTP

MDY4
GWRE

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PAVEMENT MARKING - STH 167	SHEET 159 E

FILE NAME : P:\43xx\4340\Plan\Pavement Marking\Urban\em_024523_pm.dgn PLOT DATE : 5/16/2015 PLOT BY : sgc PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

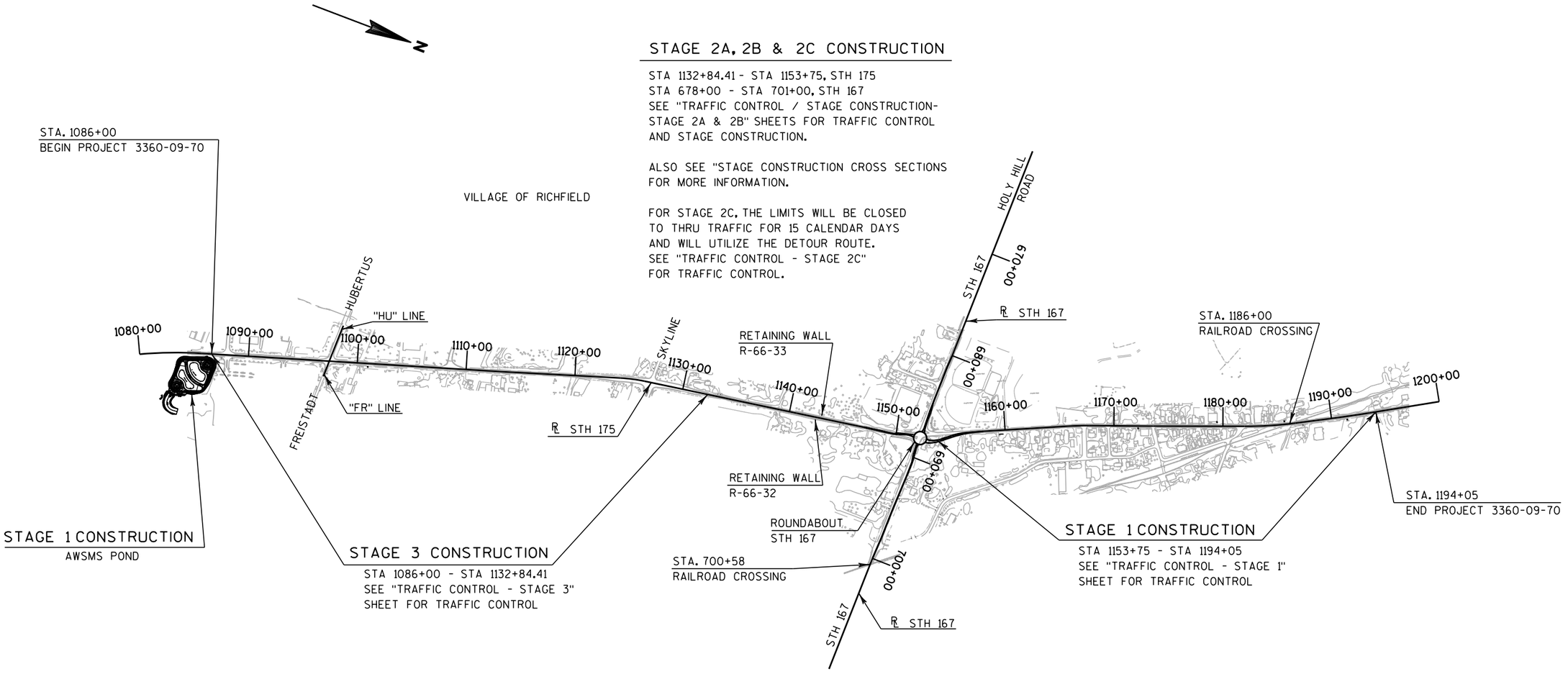
2

STAGE 2A, 2B & 2C CONSTRUCTION

STA 1132+84.41 - STA 1153+75, STH 175
STA 678+00 - STA 701+00, STH 167
SEE "TRAFFIC CONTROL / STAGE CONSTRUCTION-
STAGE 2A & 2B" SHEETS FOR TRAFFIC CONTROL
AND STAGE CONSTRUCTION.

ALSO SEE "STAGE CONSTRUCTION CROSS SECTIONS
FOR MORE INFORMATION.

FOR STAGE 2C, THE LIMITS WILL BE CLOSED
TO THRU TRAFFIC FOR 15 CALENDAR DAYS
AND WILL UTILIZE THE DETOUR ROUTE.
SEE "TRAFFIC CONTROL - STAGE 2C"
FOR TRAFFIC CONTROL.



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE CONSTRUCTION OVERVIEW	SHEET	E

2

LEGEND

(1) UTILIZE S.D.D., "BARRICADES AND SIGNS FOR MAINLINE CLOSURES"

(2) UTILIZE S.D.D., "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"

TYPE III BARRICADE WITH/WITHOUT SIGN

(PCMS) PORTABLE CHANGEABLE MESSAGE SIGN

(3)
ROAD CLOSED
0.3 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

VILLAGE OF RICHFIELD

ROUNDABOUT
STH 167

℄ STH 175

℄ STH 167

PCMS

PCMS

PCMS

RICHFIELD SERVICE

ELM STR

DEPOT STR

RAILROAD STR

PLEASANT HILL RD

STA. 1194+05
END PROJECT 3360-09-70

STAGE 1 CONSTRUCTION
STA 1153+75 - STA 1194+05

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 1	SHEET 161	E

2

LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- FLEXIBLE TUBULAR MARKER AND BASE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC FLOW
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- REMOVING PAVEMENT MARKING
- XX XX — SAWCUT
- (1) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
- (2) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY, PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- BINDER COURSE TO BE REMOVED IN STAGE 2C
- BINDER COURSE

N

NOTES STAGE 2A:

TRAFFIC IS TO REMAIN ON EXISTING ROADWAY, AND TWO LANES OF TRAFFIC ARE TO REMAIN OPEN AT ALL TIMES UNLESS OTHERWISE NOTED.

MAINTAIN EXISTING LIGHTING THROUGHOUT STAGE 2A.

THE ASPHALTIC SURFACE TEMPORARY WIDENING ON THE EXISTING SHOULDER, SOUTH SIDE, SHALL BE THE FIRST COMPONENT TO BE CONSTRUCTED DURING STAGE 2A.

THE DRIVING LANES FOR STAGE 2B WILL BE ON THE EXISTING PAVEMENT, THE PROPOSED BINDER COURSE AND ON 3 3/4" ASPHALTIC SURFACE TEMPORARY. USE ASPHALTIC SURFACE TEMPORARY TO MATCH INTO THE EXISTING PAVEMENT WHERE APPLICABLE.

TEMPORARY PAVEMENT SHALL BE WEDGED AT 3:1 MAX. SLOPE TO MATCH EXISTING PAVEMENT.

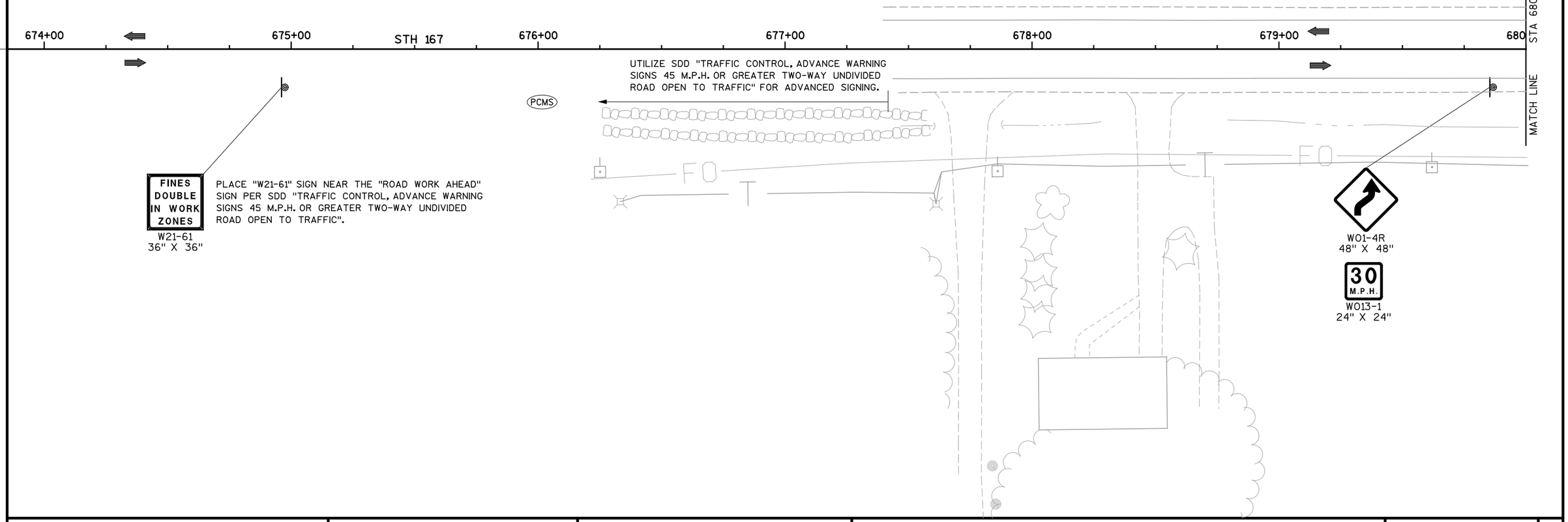
TEMPORARY LANE DROPS MAY BE USED FOR STORM SEWER CONSTRUCTION BY UTILIZING FLAGGING OPERATIONS DURING NON-PEAK HOURS.

ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TRAFFIC CONTROL MARKINGS SHALL BE REMOVED

THE REMAINDER OF THE CENTRAL ISLAND, SOME CURB & GUTTER AND THE REMAINDER OF THE ROADWAY AT THE EAST AND WEST ENDS ARE TO BE CONSTRUCTED DURING STAGE 2C.

DROP-OFFS GREATER THAN 6-INCHES WITHIN 4-FEET OF AN OPEN TRAFFIC LANE SHALL BE GRADED OR PAVED TO MAINTAIN A 3:1 MAXIMUM SLOPE.

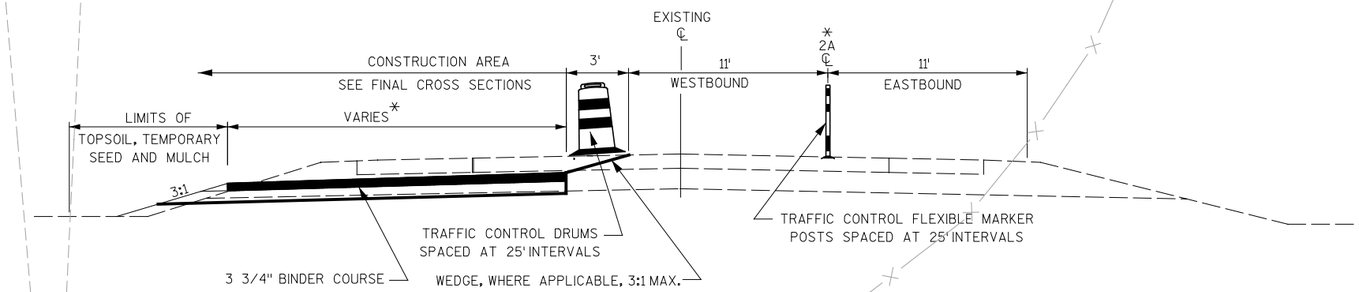
ALL TEMPORARY STORM SEWER PIPE CONNECTIONS SHALL BE INCIDENTAL TO THAT PARTICULAR STORM SEWER PIPE.



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TRAFFIC CONTROL / STAGE CONSTRUCTION - STAGE 2A	SHEET 162	E

LEGEND

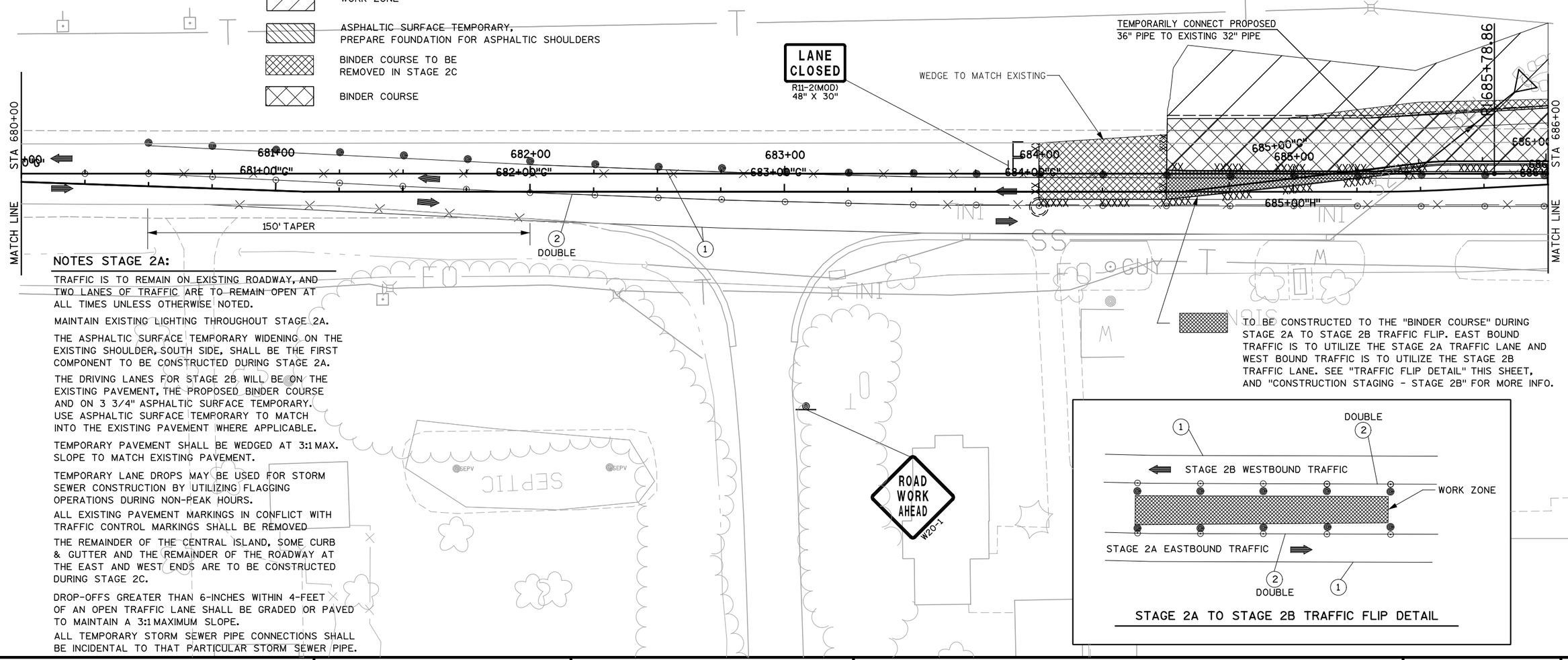
- TYPE III BARRICADE WITH/WITHOUT SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- FLEXIBLE TUBULAR MARKER AND BASE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC FLOW
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- REMOVING PAVEMENT MARKING
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- (2) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY, PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- BINDER COURSE TO BE REMOVED IN STAGE 2C
- BINDER COURSE



* SEE "STAGE CONSTRUCTION CROSS SECTIONS" FOR MORE SPECIFIC INFORMATION.

TYPICAL CONSTRUCTION SECTION

STH 167



NOTES STAGE 2A:

TRAFFIC IS TO REMAIN ON EXISTING ROADWAY, AND TWO LANES OF TRAFFIC ARE TO REMAIN OPEN AT ALL TIMES UNLESS OTHERWISE NOTED.

MAINTAIN EXISTING LIGHTING THROUGHOUT STAGE 2A.

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THE DRIVING LANES FOR STAGE 2B WILL BE ON THE EXISTING PAVEMENT, THE PROPOSED BINDER COURSE AND ON 3 3/4" ASPHALTIC SURFACE TEMPORARY. USE ASPHALTIC SURFACE TEMPORARY TO MATCH INTO THE EXISTING PAVEMENT WHERE APPLICABLE.

TEMPORARY PAVEMENT SHALL BE WEDGED AT 3:1 MAX. SLOPE TO MATCH EXISTING PAVEMENT.

TEMPORARY LANE DROPS MAY BE USED FOR STORM SEWER CONSTRUCTION BY UTILIZING FLAGGING OPERATIONS DURING NON-PEAK HOURS.

ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TRAFFIC CONTROL MARKINGS SHALL BE REMOVED

THE REMAINDER OF THE CENTRAL ISLAND, SOME CURB & GUTTER AND THE REMAINDER OF THE ROADWAY AT THE EAST AND WEST ENDS ARE TO BE CONSTRUCTED DURING STAGE 2C.

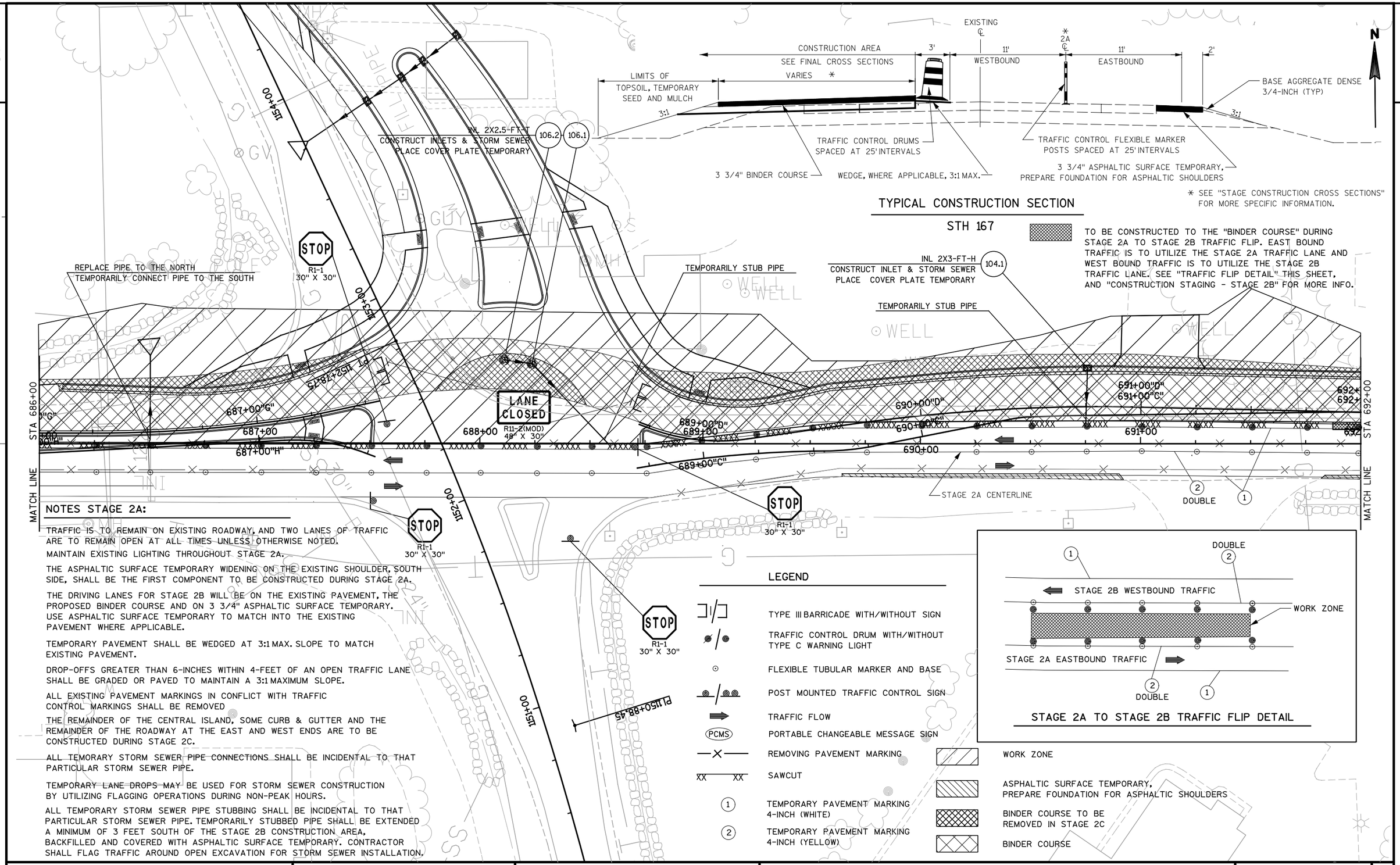
DROP-OFFS GREATER THAN 6-INCHES WITHIN 4-FEET OF AN OPEN TRAFFIC LANE SHALL BE GRADED OR PAVED TO MAINTAIN A 3:1 MAXIMUM SLOPE.

ALL TEMPORARY STORM SEWER PIPE CONNECTIONS SHALL BE INCIDENTAL TO THAT PARTICULAR STORM SEWER PIPE.

TO BE CONSTRUCTED TO THE "BINDER COURSE" DURING STAGE 2A TO STAGE 2B TRAFFIC FLIP. EAST BOUND TRAFFIC IS TO UTILIZE THE STAGE 2A TRAFFIC LANE AND WEST BOUND TRAFFIC IS TO UTILIZE THE STAGE 2B TRAFFIC LANE. SEE "TRAFFIC FLIP DETAIL" THIS SHEET, AND "CONSTRUCTION STAGING - STAGE 2B" FOR MORE INFO.

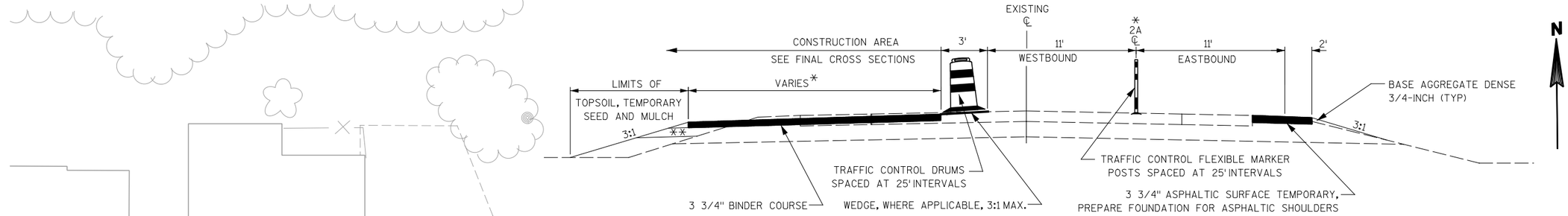
STAGE 2A TO STAGE 2B TRAFFIC FLIP DETAIL

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TRAFFIC CONTROL / STAGE CONSTRUCTION - STAGE 2A	SHEET 163	E



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TRAFFIC CONTROL / STAGE CONSTRUCTION - STAGE 2A	SHEET	E

FILE NAME : W:\x-Projects\RD\7140\project 1 dgn\025005_tc.dgn PLOT DATE : 12/2/2014 PLOT BY : Jim0 PLOT NAME : PLOT SCALE : 40.0000 sf / in.
WISDOT/CADDS SHEET 42

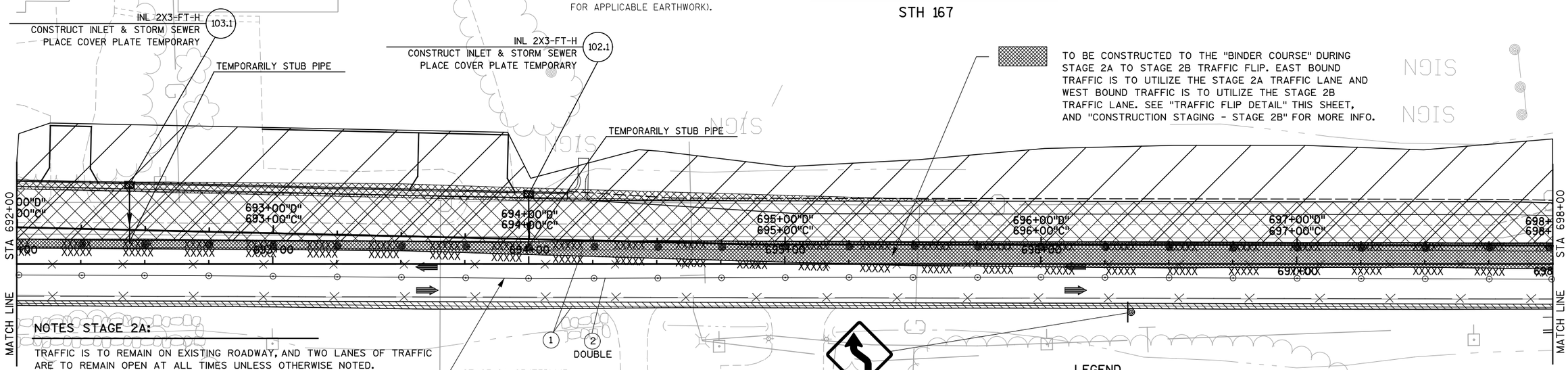


** 6" MIN. BASE AGGREGATE DENSE 1 1/4-INCH (SEE "TRAFFIC CONTROL CROSS SECTIONS" FOR APPLICABLE EARTHWORK).

* SEE "STAGE CONSTRUCTION CROSS SECTIONS" FOR MORE SPECIFIC INFORMATION.

TYPICAL CONSTRUCTION SECTION

STH 167



NOTES STAGE 2A:

TRAFFIC IS TO REMAIN ON EXISTING ROADWAY, AND TWO LANES OF TRAFFIC ARE TO REMAIN OPEN AT ALL TIMES UNLESS OTHERWISE NOTED.

MAINTAIN EXISTING LIGHTING THROUGHOUT STAGE 2A.

THE ASPHALTIC SURFACE TEMPORARY WIDENING ON THE EXISTING SHOULDER, SOUTH SIDE, SHALL BE THE FIRST COMPONENT TO BE CONSTRUCTED DURING STAGE 2A.

THE DRIVING LANES FOR STAGE 2B WILL BE ON THE EXISTING PAVEMENT, THE PROPOSED BINDER COURSE AND ON 3 3/4" ASPHALTIC SURFACE TEMPORARY. USE ASPHALTIC SURFACE TEMPORARY TO MATCH INTO THE EXISTING PAVEMENT WHERE APPLICABLE.

TEMPORARY PAVEMENT SHALL BE WEDGED AT 3:1 MAX. SLOPE TO MATCH EXISTING PAVEMENT.

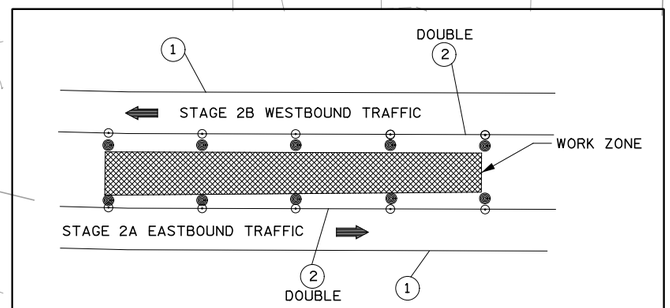
DROP-OFFS GREATER THAN 6-INCHES WITHIN 4-FEET OF AN OPEN TRAFFIC LANE SHALL BE GRADED OR PAVED TO MAINTAIN A 3:1 MAXIMUM SLOPE.

ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TRAFFIC CONTROL MARKINGS SHALL BE REMOVED

THE REMAINDER OF THE CENTRAL ISLAND, SOME CURB & GUTTER AND THE REMAINDER OF THE ROADWAY AT THE EAST AND WEST ENDS ARE TO BE CONSTRUCTED DURING STAGE 2C.

TEMPORARY LANE DROPS MAY BE USED FOR STORM SEWER CONSTRUCTION BY UTILIZING FLAGGING OPERATIONS DURING NON-PEAK HOURS.

ALL TEMPORARY STORM SEWER PIPE STUBBING SHALL BE INCIDENTAL TO THAT PARTICULAR STORM SEWER PIPE. TEMPORARILY STUBBED PIPE SHALL BE EXTENDED A MINIMUM OF 3 FEET SOUTH OF THE STAGE 2B CONSTRUCTION AREA, BACKFILLED AND COVERED WITH ASPHALTIC SURFACE TEMPORARY. CONTRACTOR SHALL FLAG TRAFFIC AROUND OPEN EXCAVATION FOR STORM SEWER INSTALLATION.

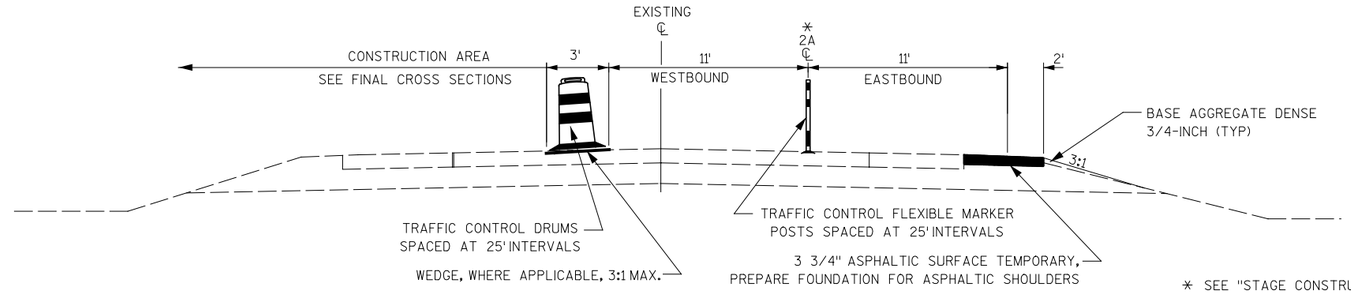


STAGE 2A TO STAGE 2B TRAFFIC FLIP DETAIL

LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- FLEXIBLE TUBULAR MARKER AND BASE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC FLOW
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- REMOVING PAVEMENT MARKING
- XX XX — SAWCUT
- 1 — TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
- 2 — TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY, PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- BINDER COURSE TO BE REMOVED IN STAGE 2C
- BINDER COURSE

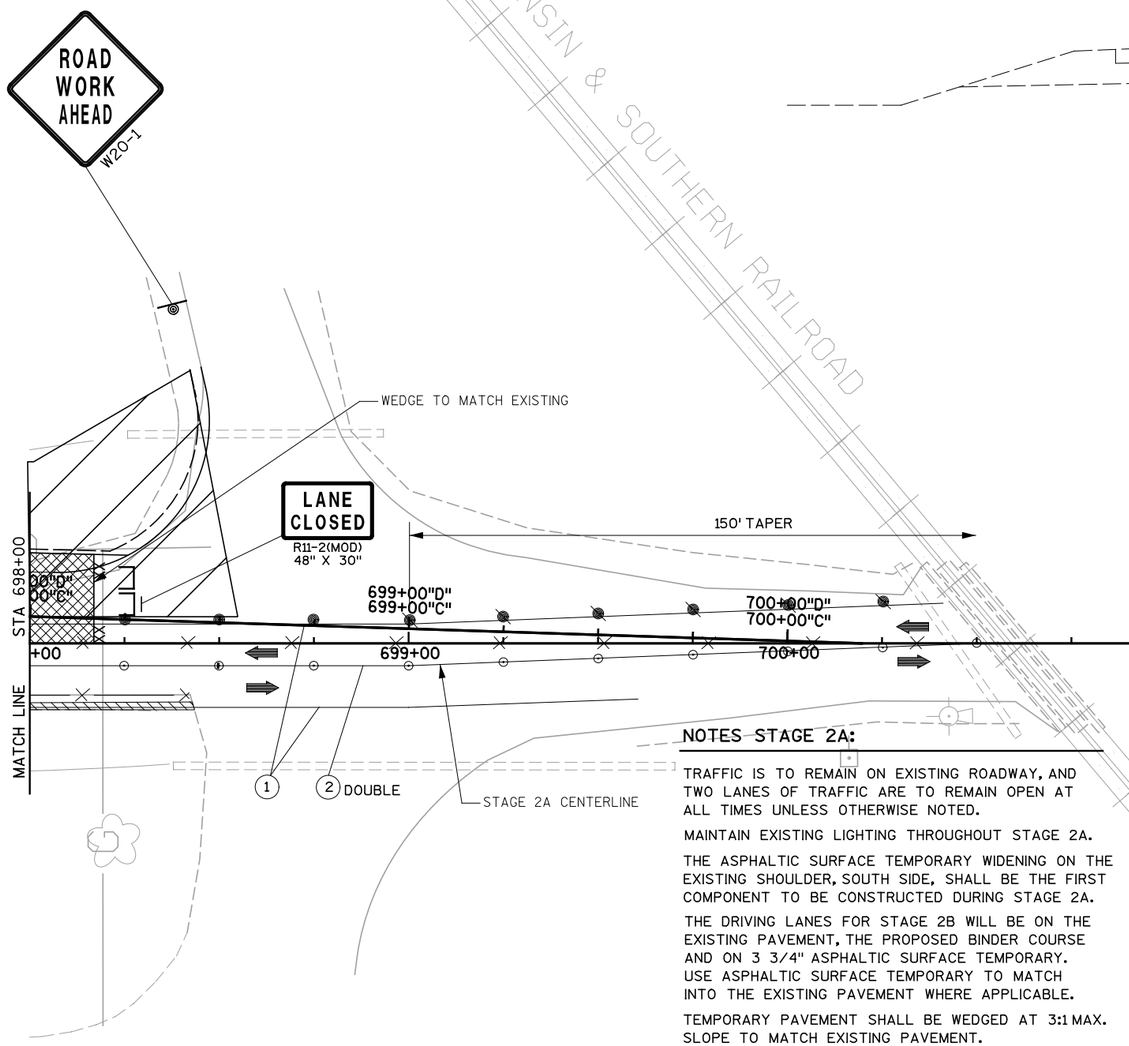
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TRAFFIC CONTROL / STAGE CONSTRUCTION - STAGE 2A	SHEET 165	E

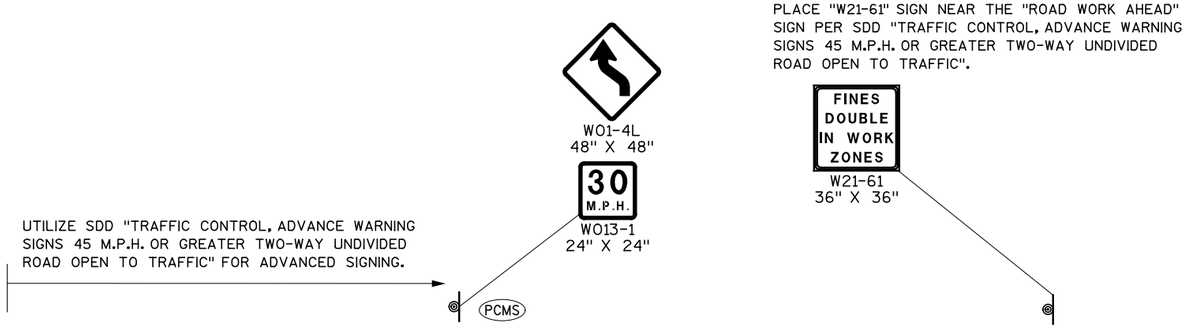


* SEE "STAGE CONSTRUCTION CROSS SECTIONS" FOR MORE SPECIFIC INFORMATION.

TYPICAL CONSTRUCTION SECTION

STH 167





PLACE "W21-61" SIGN NEAR THE "ROAD WORK AHEAD" SIGN PER SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

NOTES STAGE 2A:

TRAFFIC IS TO REMAIN ON EXISTING ROADWAY, AND TWO LANES OF TRAFFIC ARE TO REMAIN OPEN AT ALL TIMES UNLESS OTHERWISE NOTED.

MAINTAIN EXISTING LIGHTING THROUGHOUT STAGE 2A.

THE ASPHALTIC SURFACE TEMPORARY WIDENING ON THE EXISTING SHOULDER, SOUTH SIDE, SHALL BE THE FIRST COMPONENT TO BE CONSTRUCTED DURING STAGE 2A.

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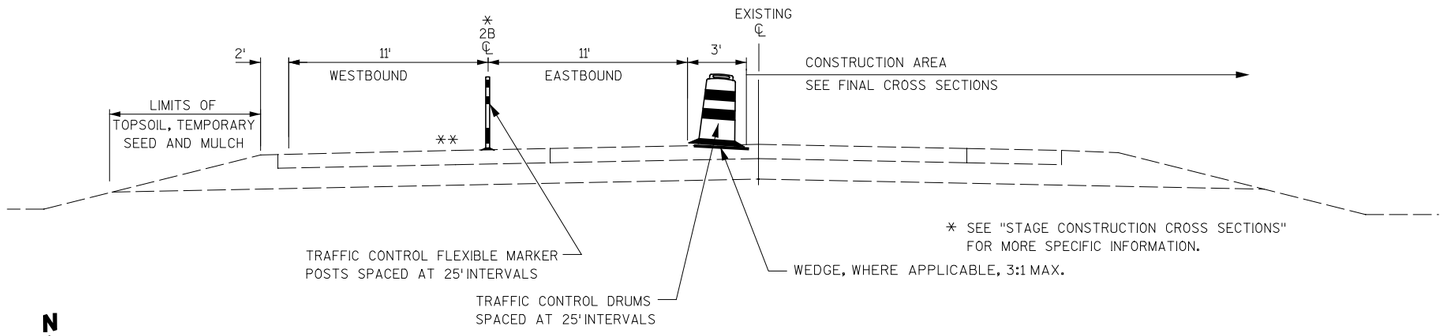
DROP-OFFS GREATER THAN 6-INCHES WITHIN 4-FEET OF AN OPEN TRAFFIC LANE SHALL BE GRADED OR PAVED TO MAINTAIN A 3:1 MAXIMUM SLOPE.

ALL TEMPORARY STORM SEWER PIPE CONNECTIONS SHALL BE INCIDENTAL TO THAT PARTICULAR STORM SEWER PIPE.

LEGEND

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- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- FLEXIBLE TUBULAR MARKER AND BASE
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- WORK ZONE
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- BINDER COURSE TO BE REMOVED IN STAGE 2C
- BINDER COURSE

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TRAFFIC CONTROL / STAGE CONSTRUCTION - STAGE 2A	SHEET 166	E



** TRAFFIC LANES ARE RUNNING ON THE EXISTING PAVEMENT UNTIL STA. 684+00, WHERE THE BINDER COURSE STARTS.

TYPICAL CONSTRUCTION SECTION
STH 167

NOTES STAGE 2B:

TRAFFIC IS TO BE SHIFTED ONTO ROADWAY CONSTRUCTED IN STAGE 2A AND TWO LANES OF TRAFFIC ARE TO REMAIN OPEN AT ALL TIMES UNLESS OTHERWISE NOTED.

TEMPORARY PAVEMENT SHALL BE WEDGED AT 3:1 MAX. SLOPE TO MATCH EXISTING PAVEMENT.

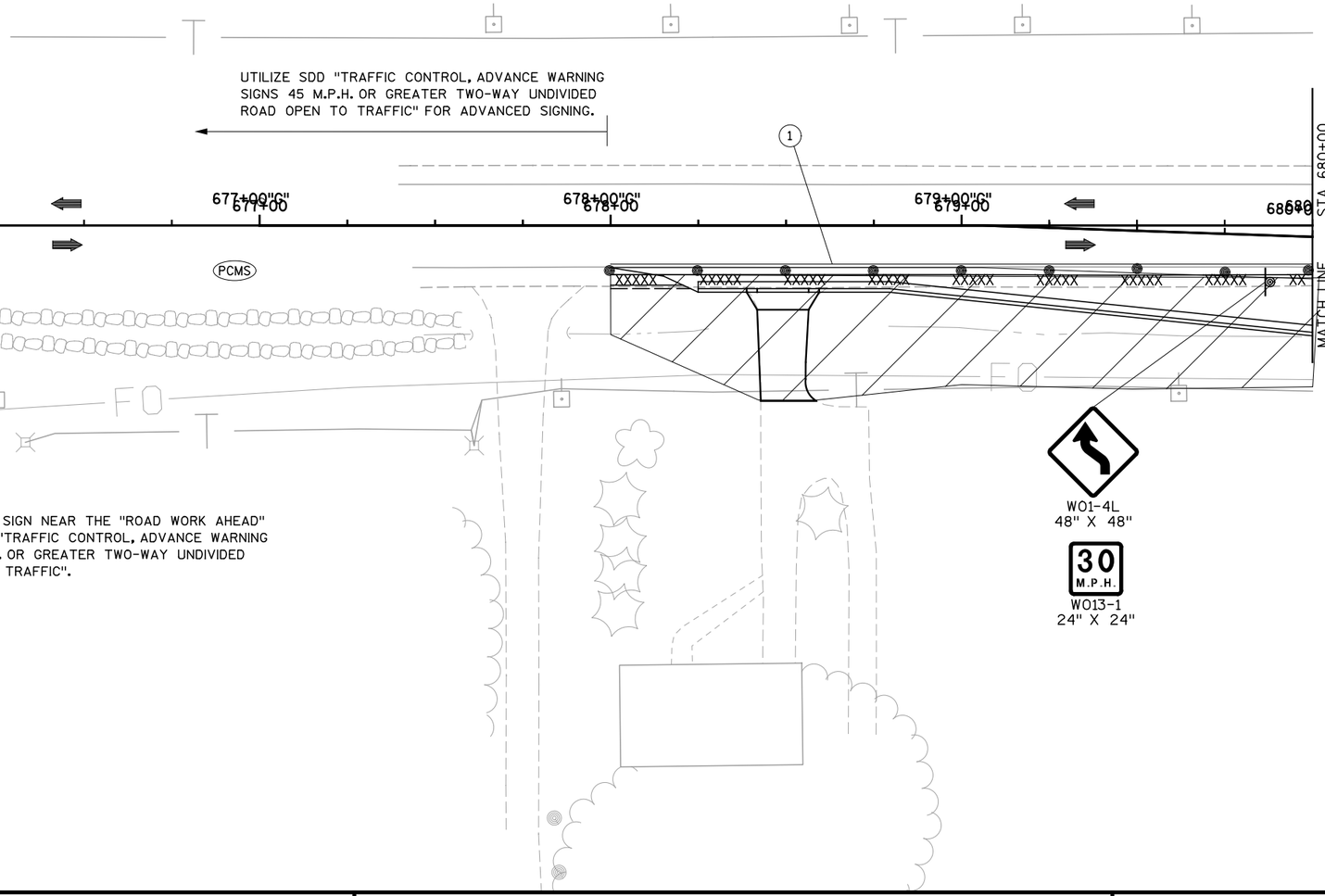
IN CONSTRUCTION AREA, CONSTRUCT ROADWAY TO FINISHED GRADE.

ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TRAFFIC CONTROL MARKINGS SHALL BE REMOVED

THE REMAINDER OF THE CENTRAL ISLAND, SOME CURB & GUTTER AND THE REMAINDER OF THE ROADWAY AT THE EAST AND WEST ENDS ARE TO BE CONSTRUCTED DURING STAGE 2C.

COORDINATE WITH WE ENERGIES TO PROVIDE TEMPORARY LIGHTING DURING STAGE 2B.

DROP-OFFS GREATER THAN 6-INCHES WITHIN 4-FEET OF AN OPEN TRAFFIC LANE SHALL BE GRADED OR PAVED TO MAINTAIN A 3:1 MAXIMUM SLOPE.





W21-61
36" X 36"

PLACE "W21-61" SIGN NEAR THE "ROAD WORK AHEAD" SIGN PER SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

LEGEND

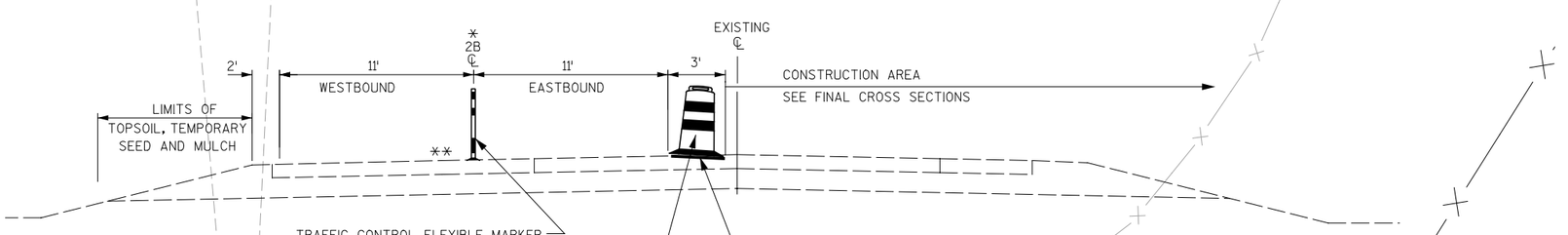
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- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- FLEXIBLE TUBULAR MARKER AND BASE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC FLOW
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- REMOVING PAVEMENT MARKING
- XX XX — SAWCUT
- (1) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
- (2) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- WORK ZONE
- BINDER COURSE TO BE REMOVED IN STAGE 2C
- BINDER COURSE

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TRAFFIC CONTROL / STAGE CONSTRUCTION - STAGE 2B	SHEET	E

FILE NAME : W:\x-Projects\RD\7140\project 1 dgn\025008_tc.dgn
PLOT DATE : 12/2/2014
PLOT BY : Jim0
PLOT NAME :
PLOT SCALE : 40.0000 sf / in.
WISDOT/CADDS SHEET 42

LEGEND

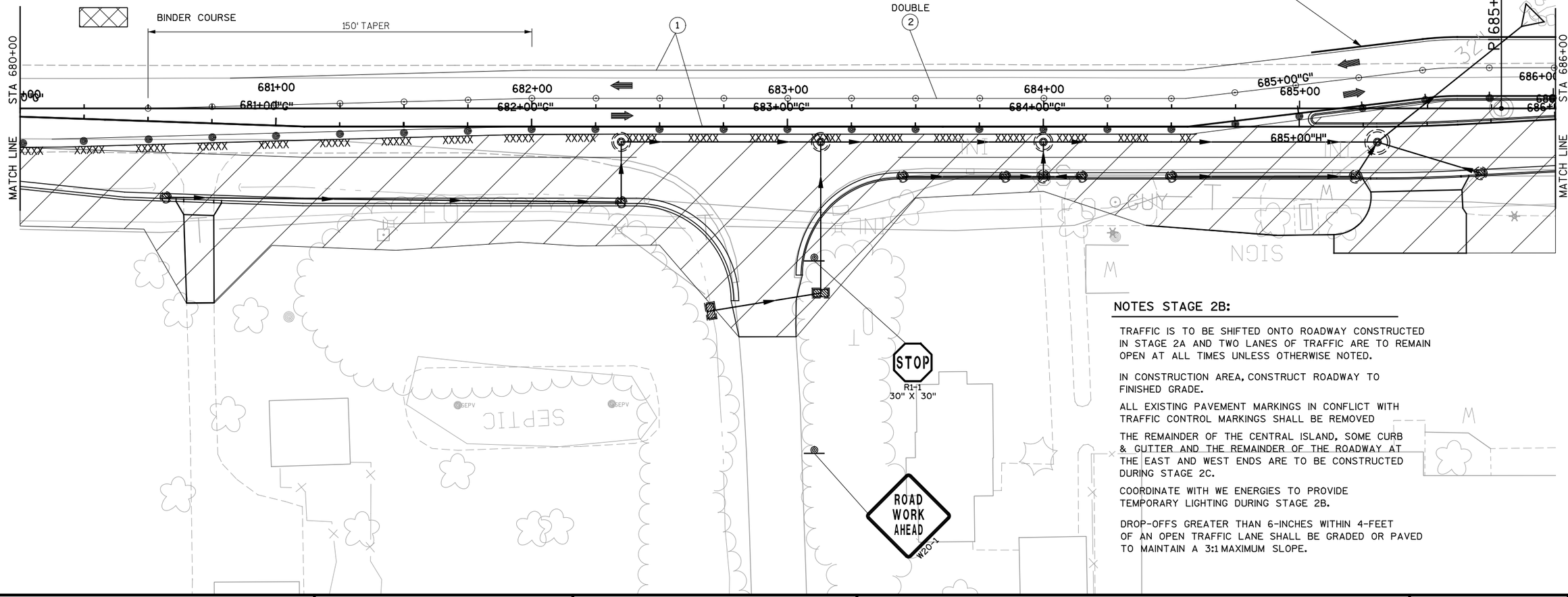
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- BINDER COURSE TO BE REMOVED IN STAGE 2C
- BINDER COURSE



* SEE "STAGE CONSTRUCTION CROSS SECTIONS" FOR MORE SPECIFIC INFORMATION.

** TRAFFIC LANES ARE RUNNING ON THE EXISTING PAVEMENT UNTIL STA. 684+00, WHERE THE BINDER COURSE STARTS.

TYPICAL CONSTRUCTION SECTION
STH 167



NOTES STAGE 2B:

TRAFFIC IS TO BE SHIFTED ONTO ROADWAY CONSTRUCTED IN STAGE 2A AND TWO LANES OF TRAFFIC ARE TO REMAIN OPEN AT ALL TIMES UNLESS OTHERWISE NOTED.

IN CONSTRUCTION AREA, CONSTRUCT ROADWAY TO FINISHED GRADE.

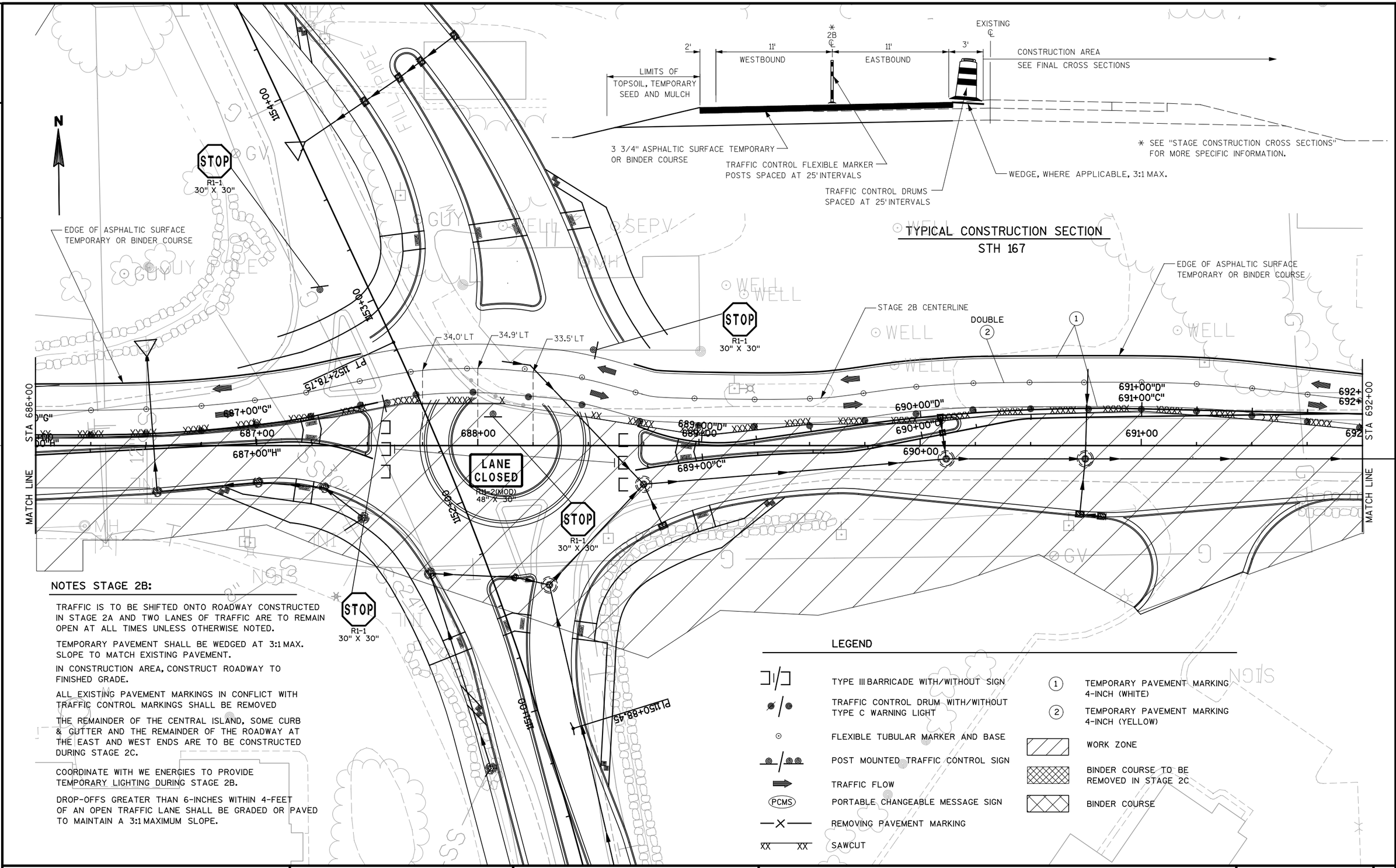
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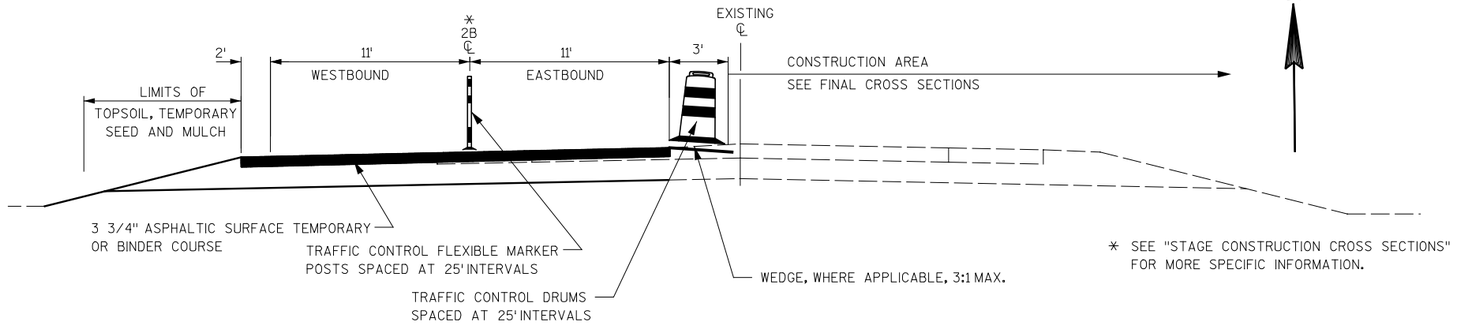
COORDINATE WITH WE ENERGIES TO PROVIDE TEMPORARY LIGHTING DURING STAGE 2B.

DROP-OFFS GREATER THAN 6-INCHES WITHIN 4-FEET OF AN OPEN TRAFFIC LANE SHALL BE GRADED OR PAVED TO MAINTAIN A 3:1 MAXIMUM SLOPE.

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TRAFFIC CONTROL / STAGE CONSTRUCTION - STAGE 2B	SHEET 168	E

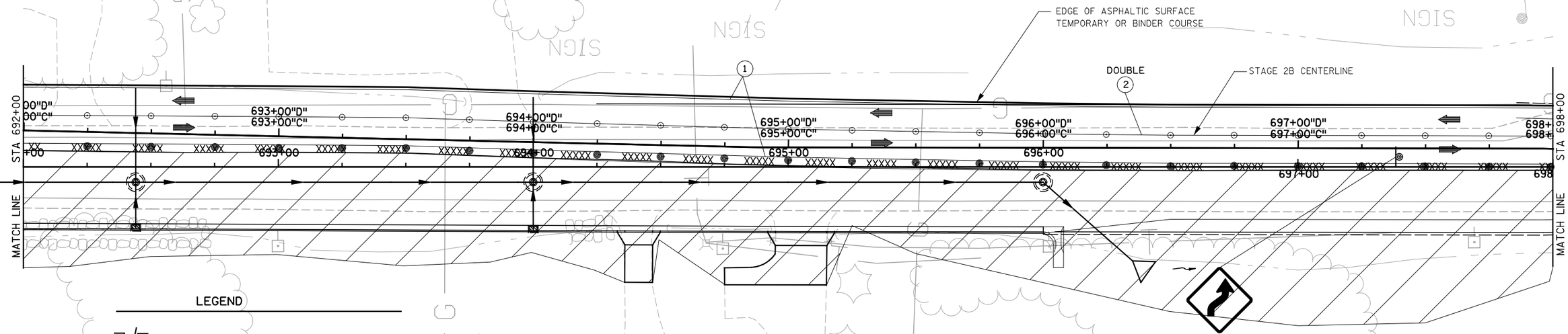


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TRAFFIC CONTROL / STAGE CONSTRUCTION - STAGE 2B	SHEET 169	E



N

TYPICAL CONSTRUCTION SECTION
STH 167



LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- FLEXIBLE TUBULAR MARKER AND BASE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC FLOW
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
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- WORK ZONE
- BINDER COURSE TO BE REMOVED IN STAGE 2C
- BINDER COURSE

NOTES STAGE 2B:

TRAFFIC IS TO BE SHIFTED ONTO ROADWAY CONSTRUCTED IN STAGE 2A AND TWO LANES OF TRAFFIC ARE TO REMAIN OPEN AT ALL TIMES UNLESS OTHERWISE NOTED.

TEMPORARY PAVEMENT SHALL BE WEDGED AT 3:1 MAX. SLOPE TO MATCH EXISTING PAVEMENT.

IN CONSTRUCTION AREA, CONSTRUCT ROADWAY TO FINISHED GRADE.

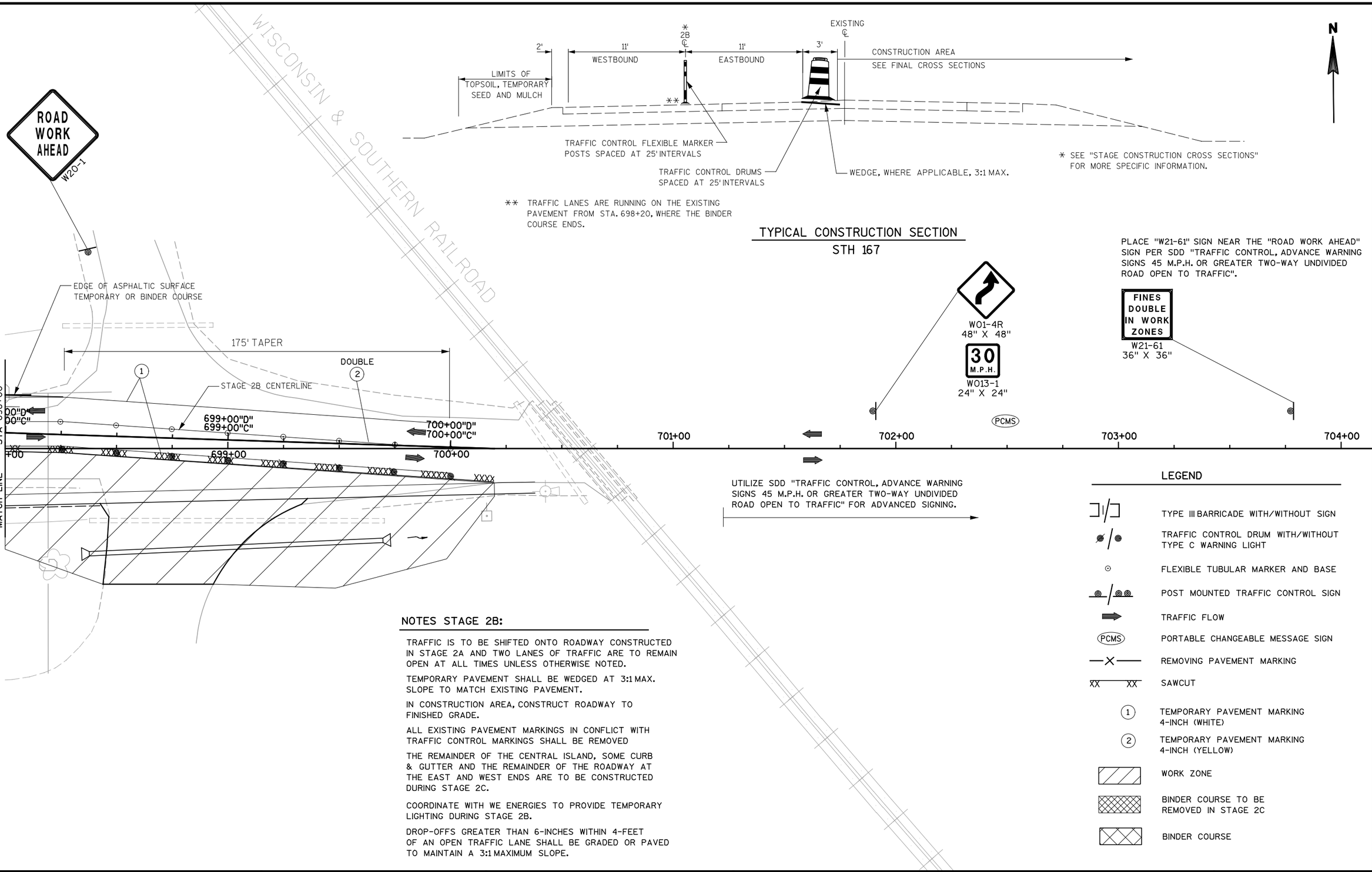
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DROP-OFFS GREATER THAN 6-INCHES WITHIN 4-FEET OF AN OPEN TRAFFIC LANE SHALL BE GRADED OR PAVED TO MAINTAIN A 3:1 MAXIMUM SLOPE.

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TRAFFIC CONTROL / STAGE CONSTRUCTION- STAGE 2B	SHEET 170	E



TYPICAL CONSTRUCTION SECTION
STH 167

NOTES STAGE 2B:

TRAFFIC IS TO BE SHIFTED ONTO ROADWAY CONSTRUCTED IN STAGE 2A AND TWO LANES OF TRAFFIC ARE TO REMAIN OPEN AT ALL TIMES UNLESS OTHERWISE NOTED.

TEMPORARY PAVEMENT SHALL BE WEDGED AT 3:1 MAX. SLOPE TO MATCH EXISTING PAVEMENT.

IN CONSTRUCTION AREA, CONSTRUCT ROADWAY TO FINISHED GRADE.

ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TRAFFIC CONTROL MARKINGS SHALL BE REMOVED

THE REMAINDER OF THE CENTRAL ISLAND, SOME CURB & GUTTER AND THE REMAINDER OF THE ROADWAY AT THE EAST AND WEST ENDS ARE TO BE CONSTRUCTED DURING STAGE 2C.

COORDINATE WITH WE ENERGIES TO PROVIDE TEMPORARY LIGHTING DURING STAGE 2B.

DROP-OFFS GREATER THAN 6-INCHES WITHIN 4-FEET OF AN OPEN TRAFFIC LANE SHALL BE GRADED OR PAVED TO MAINTAIN A 3:1 MAXIMUM SLOPE.

LEGEND

- TYPE III BARRICADE WITH/WITHOUT SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- FLEXIBLE TUBULAR MARKER AND BASE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC FLOW
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- REMOVING PAVEMENT MARKING
- XX XX — SAWCUT
- (1) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
- (2) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- WORK ZONE
- BINDER COURSE TO BE REMOVED IN STAGE 2C
- BINDER COURSE

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TRAFFIC CONTROL / STAGE CONSTRUCTION - STAGE 2B	SHEET 171	E

2

NOTE:

FOR STAGE 2C, STH 175, STA. 1132+84.41 TO STA. 1153+75, AND STH 167, STA. 678+00 TO STA. 701+00, WILL BE CLOSED TO THRU TRAFFIC FOR 15 DAYS FOR CONSTRUCTION.

WHERE CURB AND GUTTER ARE YET TO BE PLACED, SAWCUT 1-FOOT FROM PROPOSED FLANGE AND REMOVE ASPHALT PRIOR TO PLACING CURB AND GUTTER.

LEGEND

(1) UTILIZE S.D.D., "BARRICADES AND SIGNS FOR MAINLINE CLOSURES"

(2) UTILIZE S.D.D., "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"

TYPE III BARRICADE WITH/WITHOUT SIGN

(PCMS) PORTABLE CHANGEABLE MESSAGE SIGN

VILLAGE OF RICHFIELD

N

ROAD CLOSED
0.5 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"
PLACE JUST EAST OF S. MAYFIELD RD

ROAD CLOSED
0.8 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"
PLACE AT STA. 1098+25

ROAD CLOSED
1.1 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROUNDABOUT
STH 167

℄ STH 175

STA. 1194+05
END PROJECT 3360-09-70

ROAD CLOSED
0.3 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"
PLACE JUST EAST OF RAILROAD CROSSING

ROAD WORK AHEAD
W20-1

℄ STH 167

675+00 680+00 685+00 690+00 695+00 700+00 705+00 710+00

1135+00 1140+00 1145+00 1150+00"A" 1150+00"B" 1155+00"E" 1155+00"F" 1160+00 1165+00 1170+00 1175+00 1180+00 1185+00 1190+00 1195+00 1200+00 1205+00

RICHFIELD SERVICE

ELM STR

DEPOT STR

RAILROAD STR

PLEASANT HILL RD

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 2C	SHEET	E

FILE NAME : N:\PDS\Projects\33600900\DDE\Graphical Information\Plan Sheets\025013_tc.dgn PLOT DATE : 12-MAY-2015 14:21 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 500:1

WISDOT/CADDS SHEET 42

2

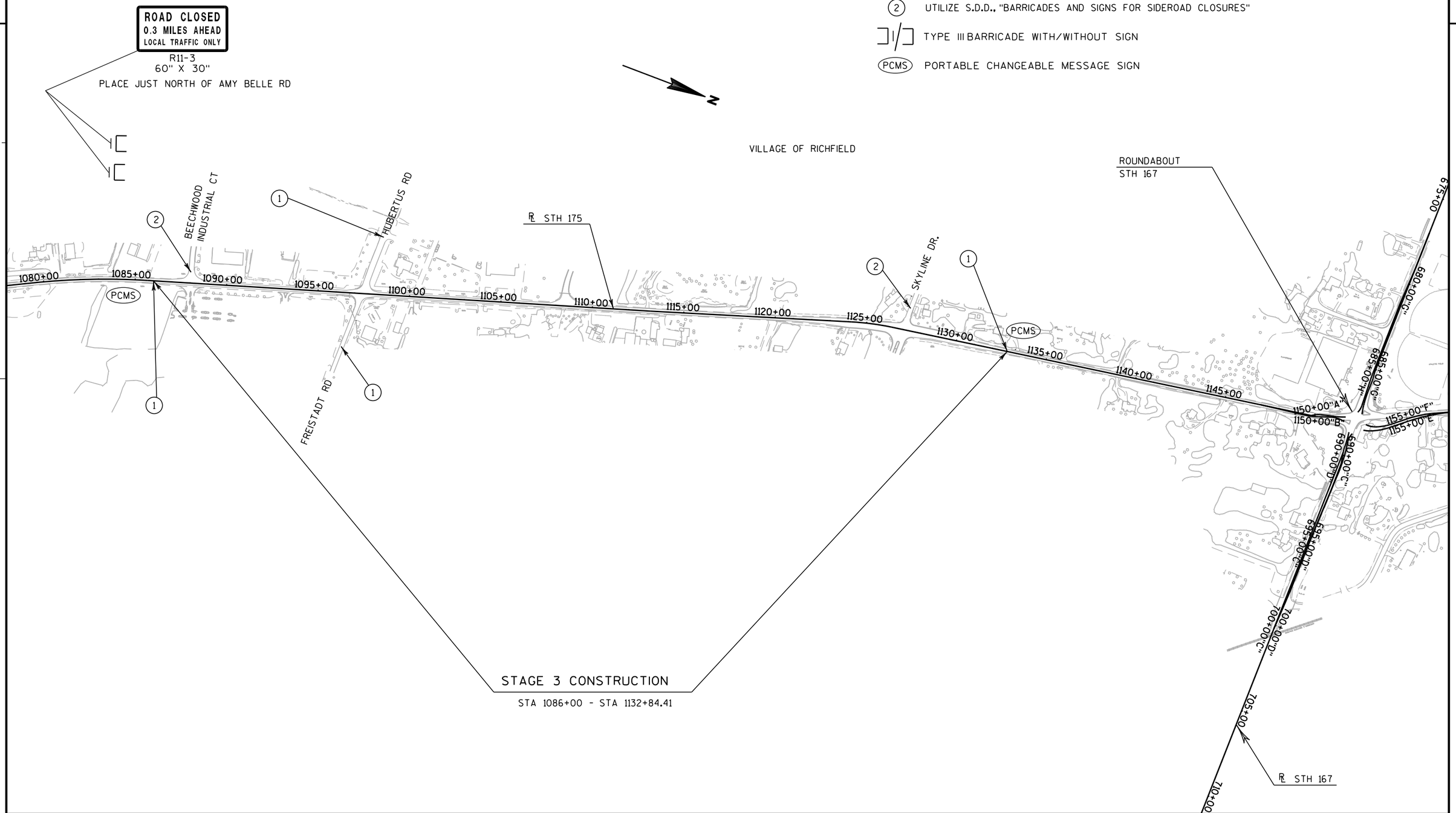
LEGEND

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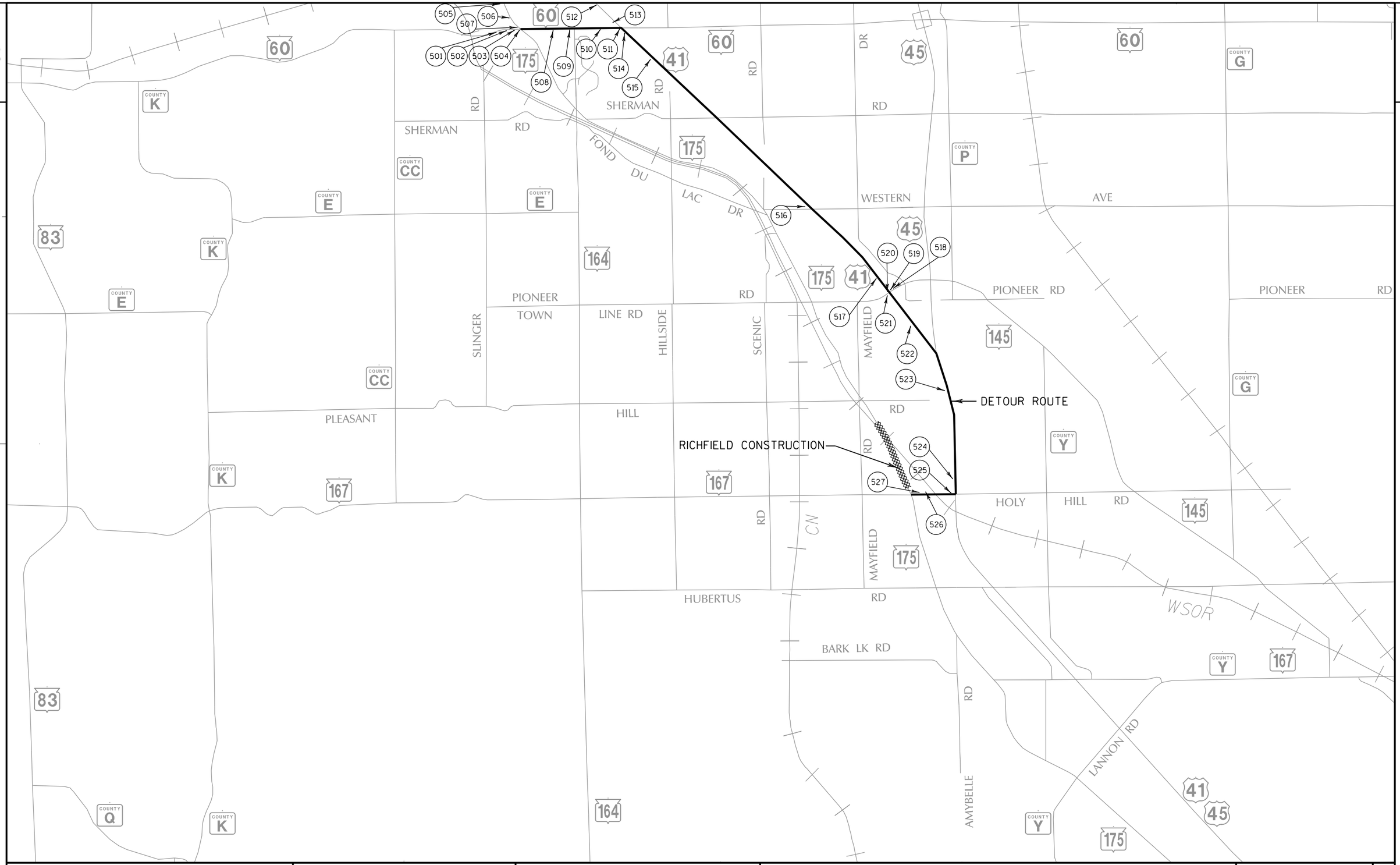
(2) UTILIZE S.D.D., "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"

TYPE III BARRICADE WITH/WITHOUT SIGN

(PCMS) PORTABLE CHANGEABLE MESSAGE SIGN



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	TRAFFIC CONTROL - STAGE 3	SHEET	E



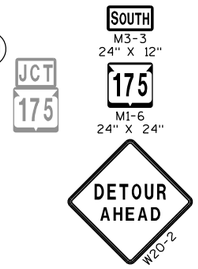
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	DETOUR - STAGE 1(SB STH 175)	SHEET 174	E

FILE NAME : P:\43xx\4340\Plan\Traffic Control\Urban\em_027001_dt.dgn PLOT DATE : 10/26/2014 PLOT BY : tmc PLOT NAME : PLOT SCALE : 1:5000

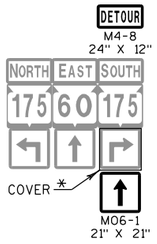
WISDOT/CADDS SHEET 42

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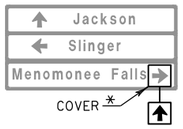
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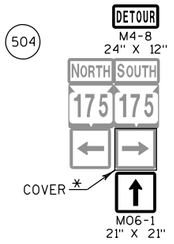
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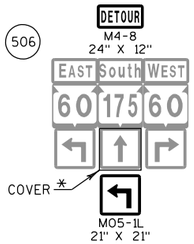
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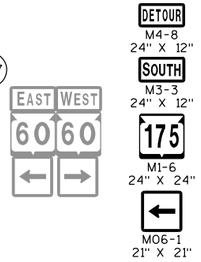
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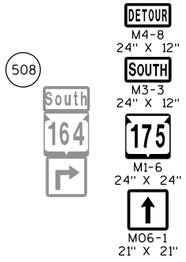
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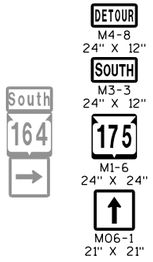
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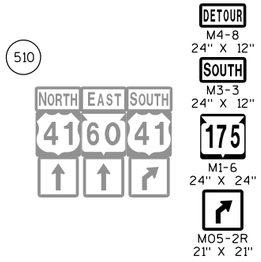
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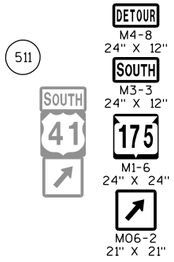
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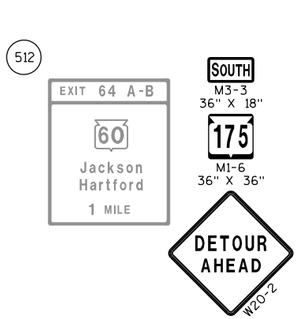
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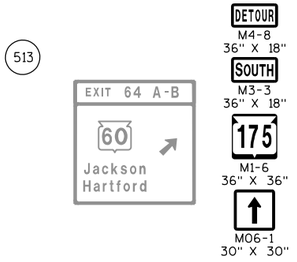
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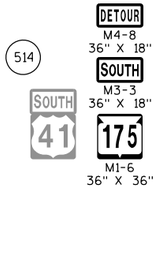
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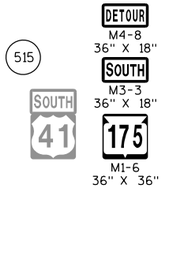
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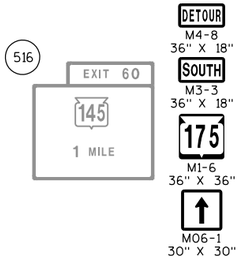
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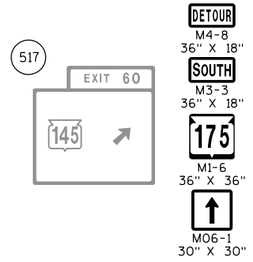
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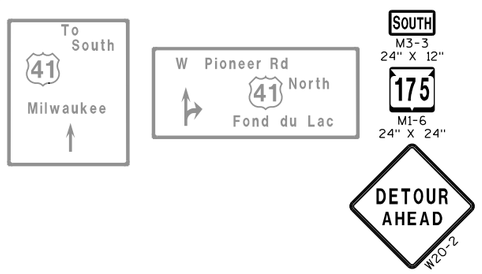
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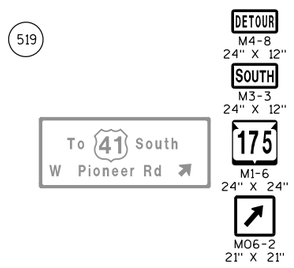
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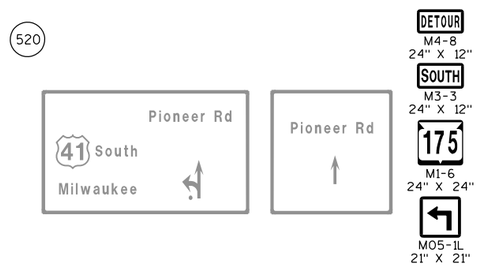
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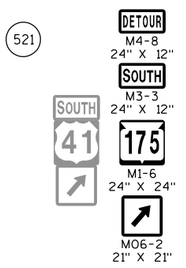
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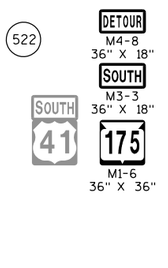
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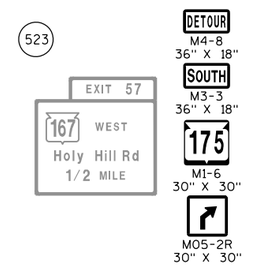
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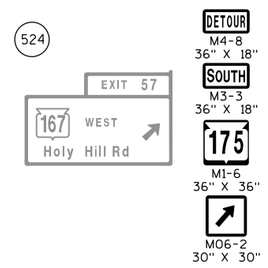
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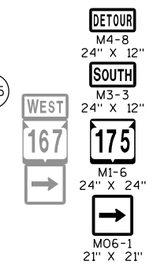
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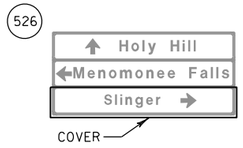
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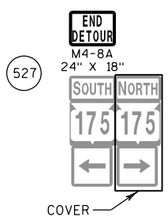
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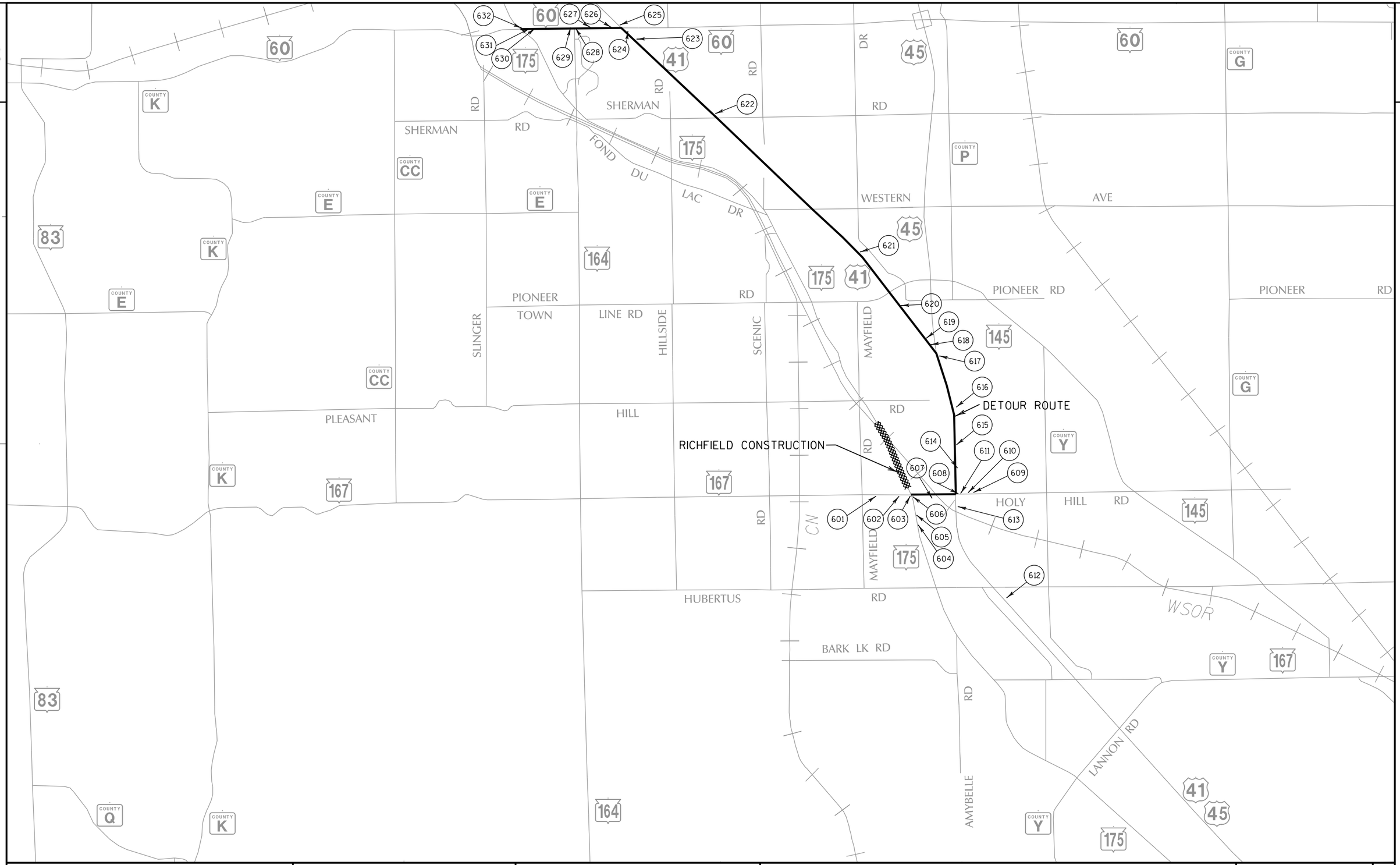


527



NOTE:
*PLACE OVER EXISTING SIGN

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	DETOUR - STAGE 1(SB STH 175)	SHEET 175	E



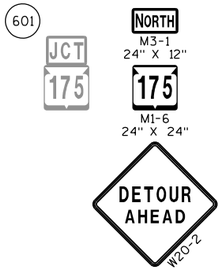
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FILE NAME : P:\43xx\4340\Plan\Traffic Control\Urban\em_027002_dt.dgn PLOT DATE : 10/26/2014 PLOT BY : tmc PLOT NAME : PLOT SCALE : 1:5000

WISDOT/CADDS SHEET 42

2

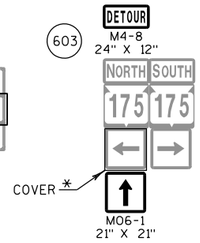
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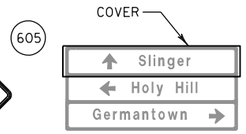
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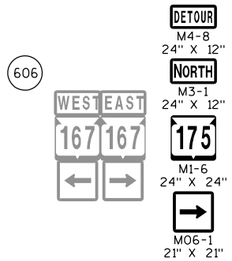
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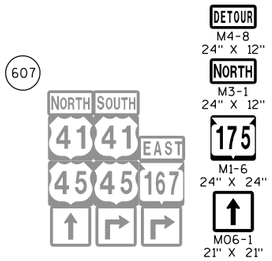
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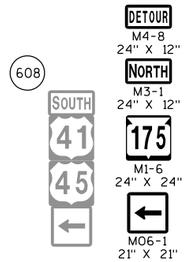
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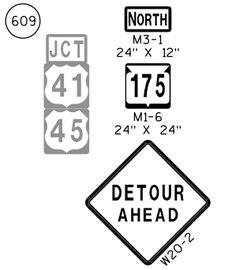
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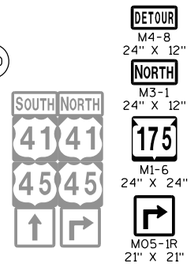
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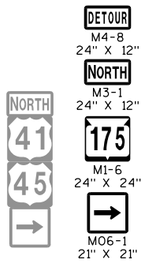
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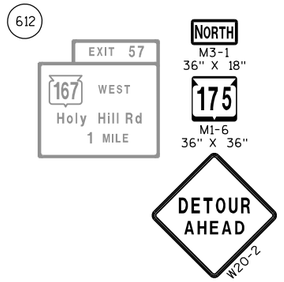
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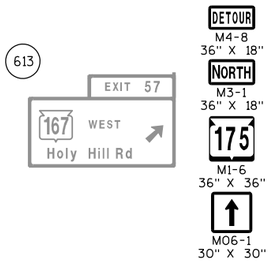
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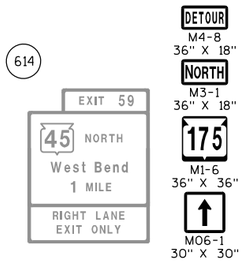
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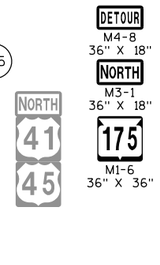
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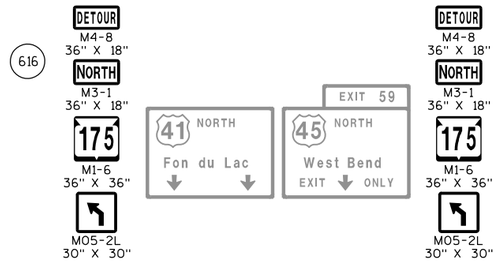
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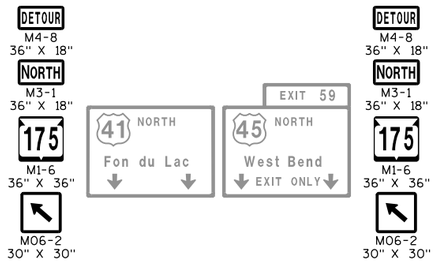
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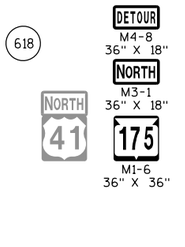
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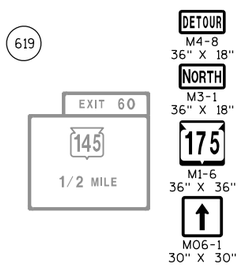
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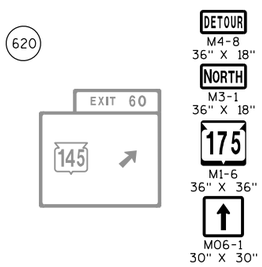
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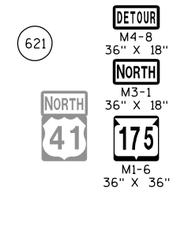
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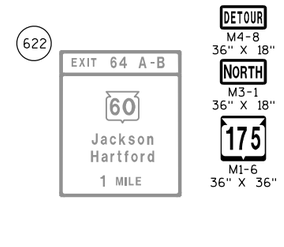
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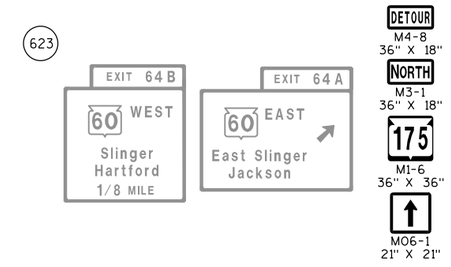
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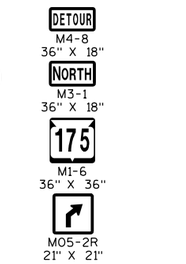
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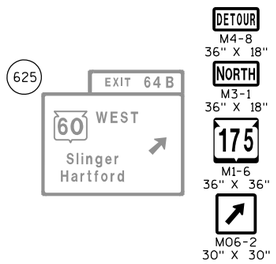
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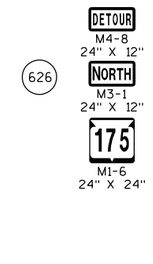
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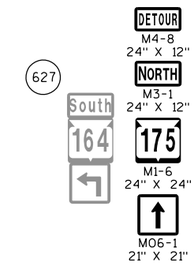
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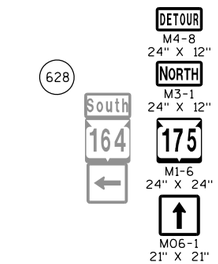
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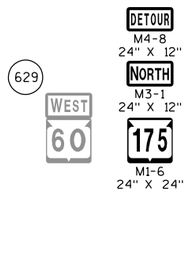
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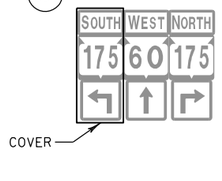
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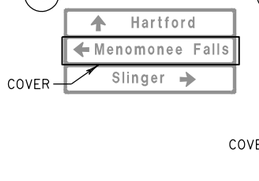
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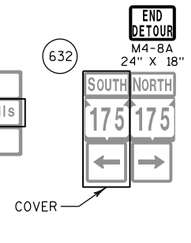
630



631



632



NOTE:
*PLACE OVER EXISTING SIGN

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	DETOUR - STAGE 1 (NB STH 175)	SHEET 177	E

2

STH 175/167 DETOUR ROUTE

STH 167 DETOUR ROUTE

ROUNDABOUT CONSTRUCTION

STH 175 DETOUR ROUTE

LEGEND

STH 175 DETOUR (STAGE 2, 2A, 2B, 2C)

STH 167 DETOUR (STAGE 2C)

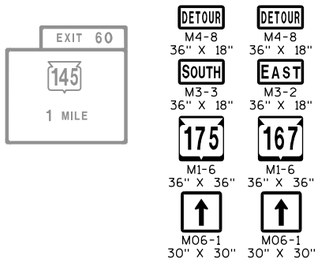
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	DETOUR - STAGE 2 (SB STH 175 AND EB STH 167)	SHEET E

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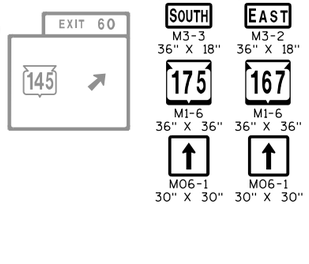
WISDOT/CADDS SHEET 42

2

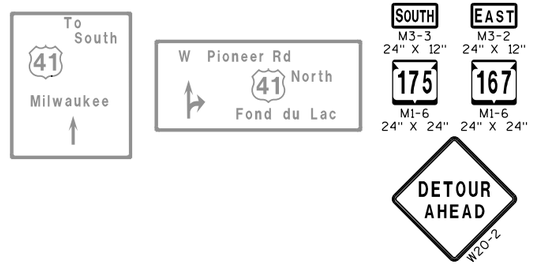
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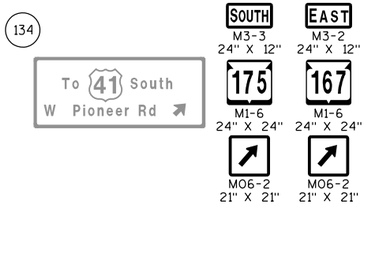
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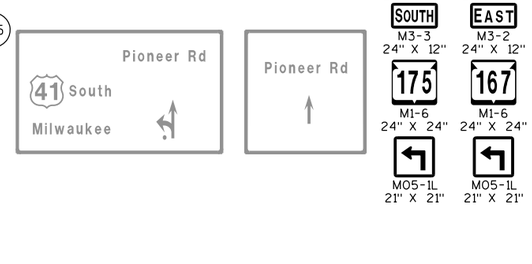
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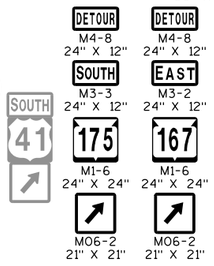
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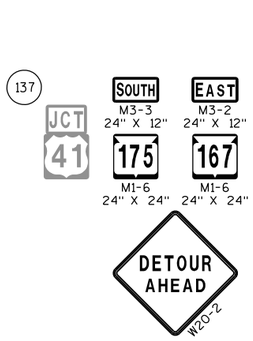
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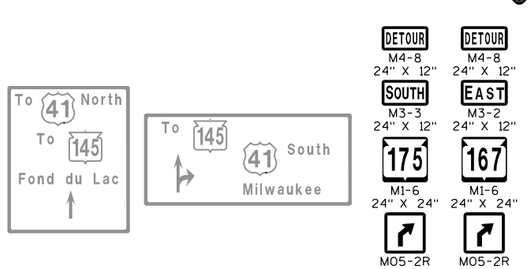
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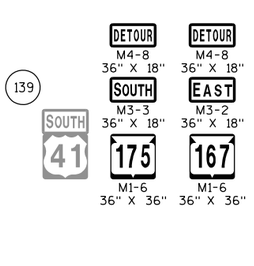
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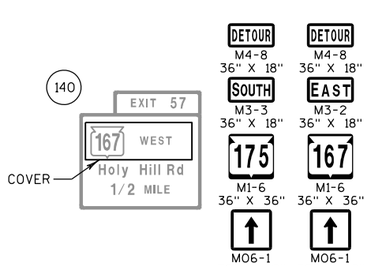
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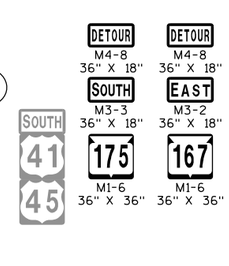
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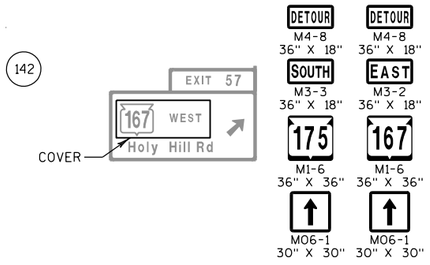
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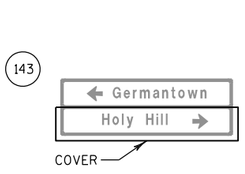
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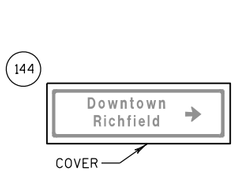
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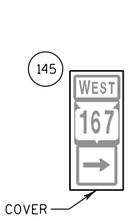
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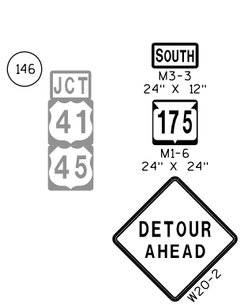
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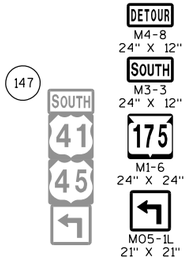
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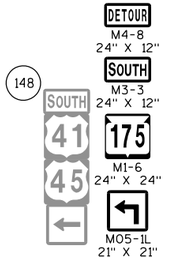
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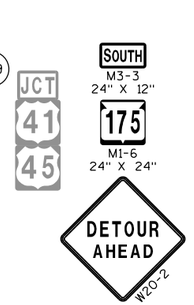
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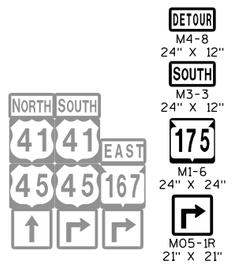
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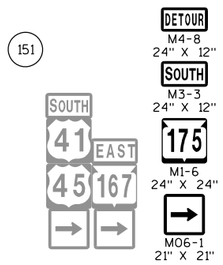
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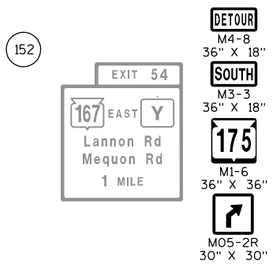
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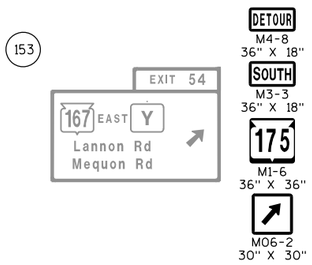
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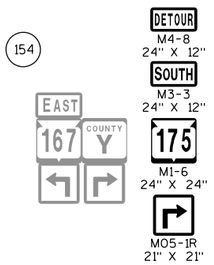
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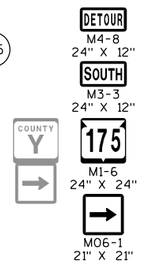
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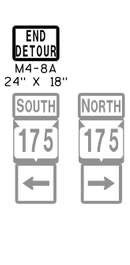
154



155



156



NOTE:
*PLACE OVER EXISTING SIGN

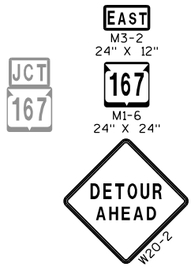
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	DETOUR - STAGE 2 (SB STH 175 AND EB STH 167)	SHEET 179	E

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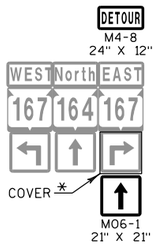
WISDOT/CADDS SHEET 42

2

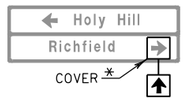
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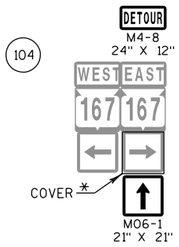
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103



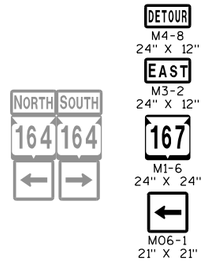
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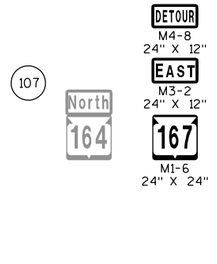
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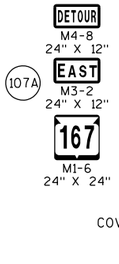
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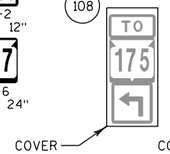
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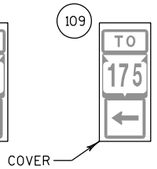
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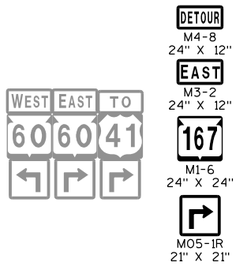
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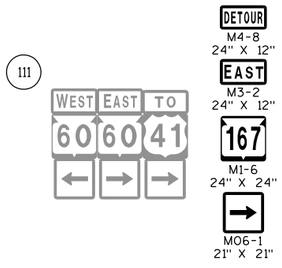
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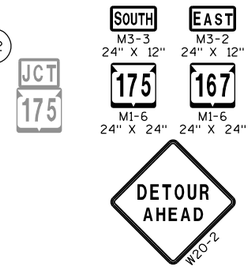
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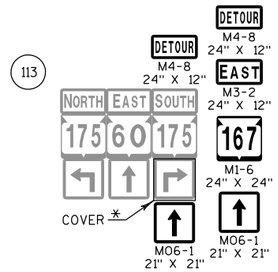
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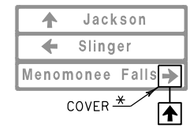
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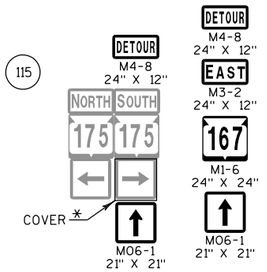
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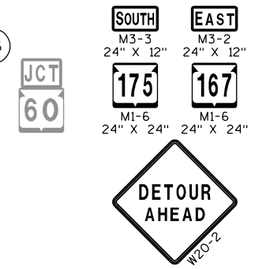
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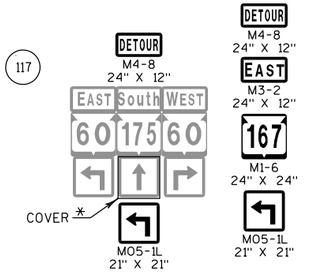
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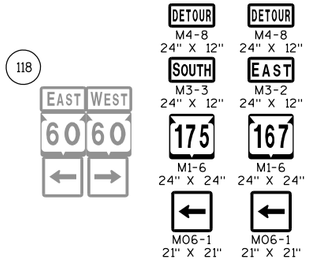
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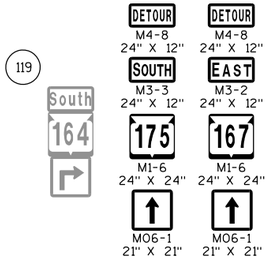
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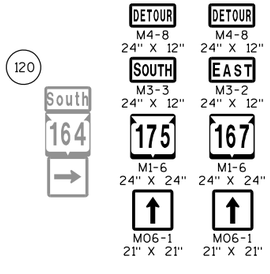
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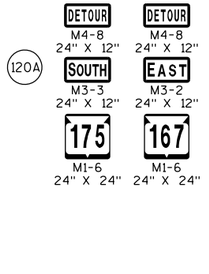
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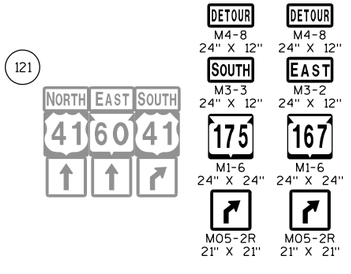
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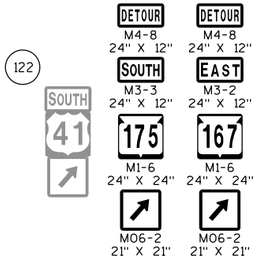
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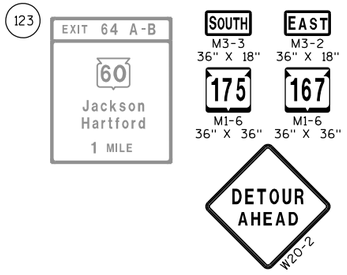
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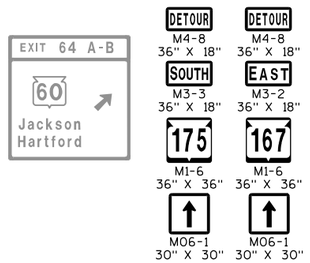
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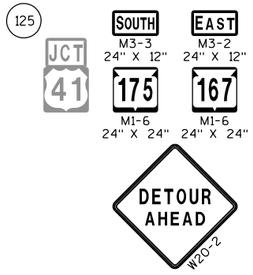
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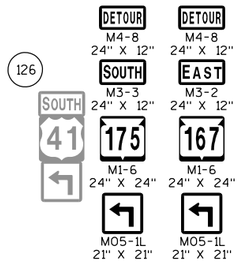
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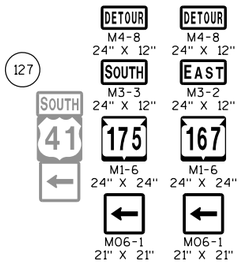
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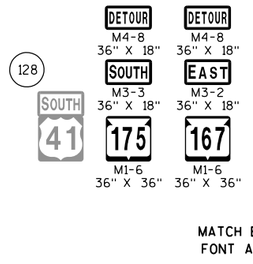
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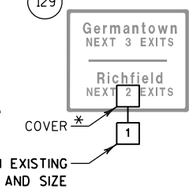
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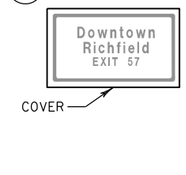
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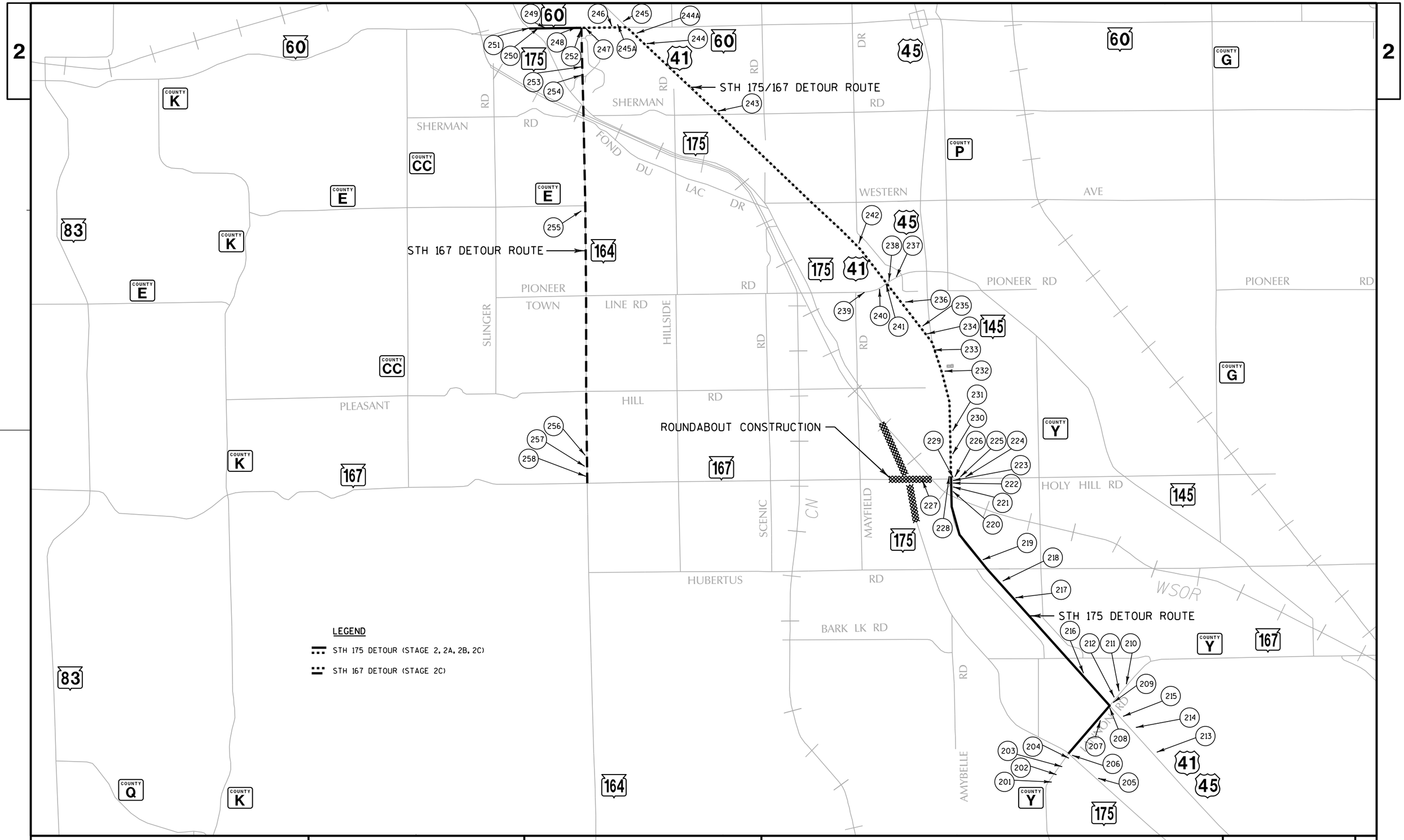


130



NOTE:
*PLACE OVER EXISTING SIGN

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	DETOUR - STAGE 2 (SB STH 175 AND EB STH 167)	SHEET 180	E



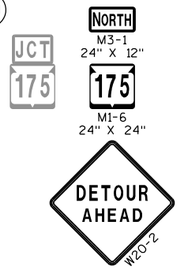
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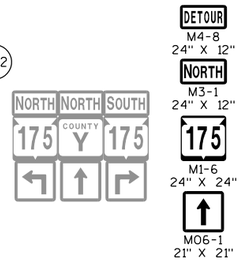
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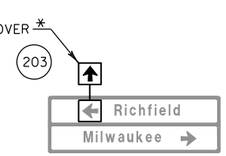
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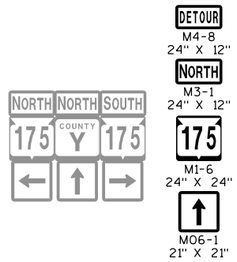
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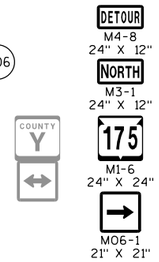
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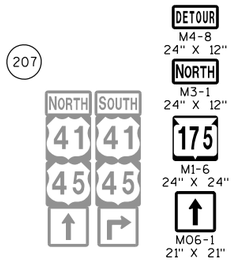
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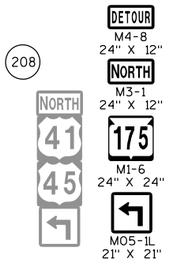
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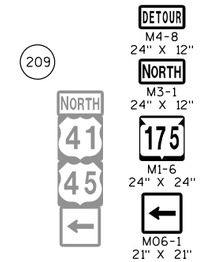
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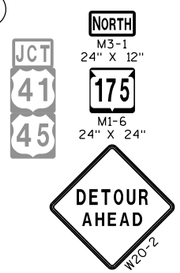
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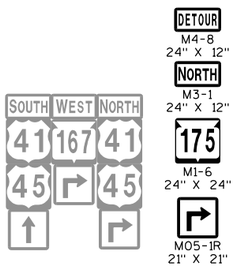
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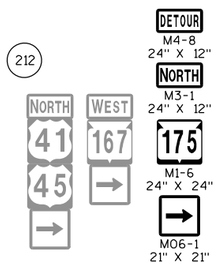
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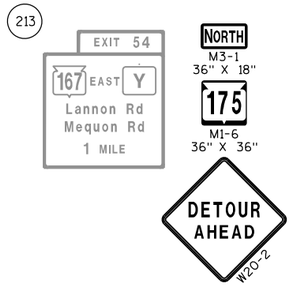
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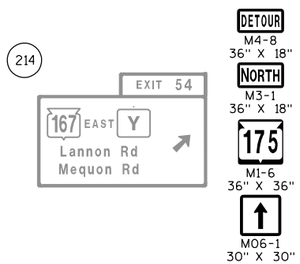
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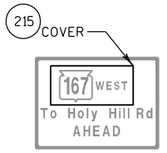
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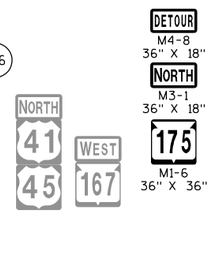
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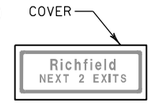
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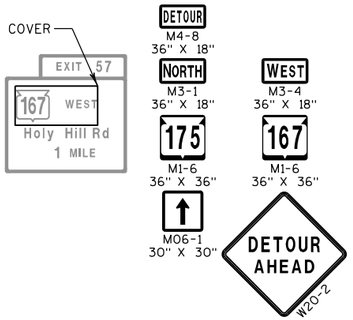
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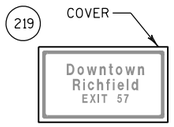
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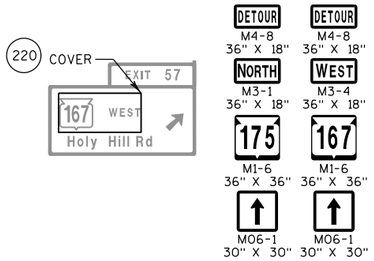
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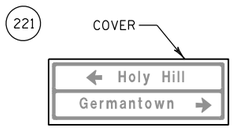
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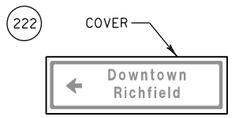
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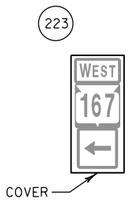
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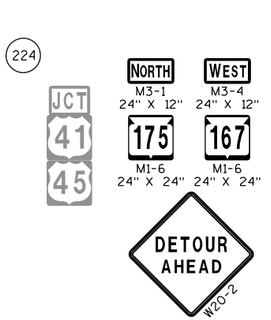
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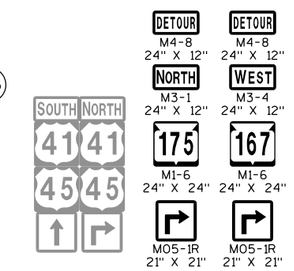
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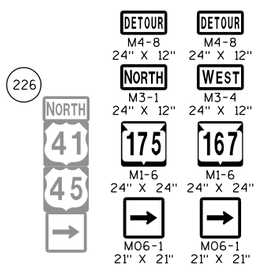
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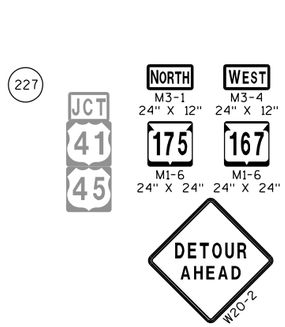
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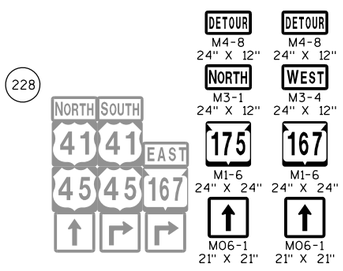
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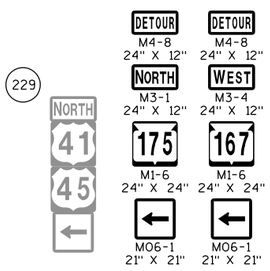
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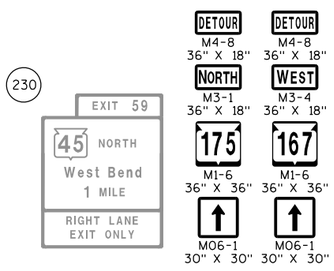
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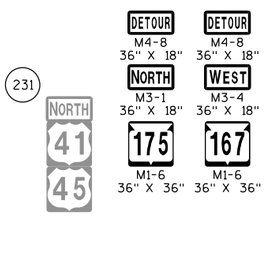
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230



231

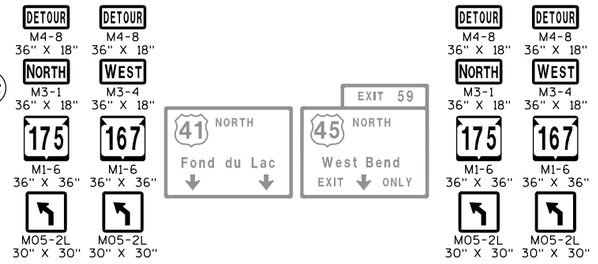


NOTE:
*PLACE OVER EXISTING SIGN

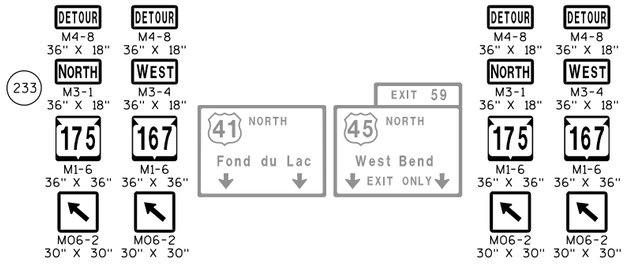
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	DETOUR - STAGE 2 (NB STH 175 AND WB STH 167)	SHEET 182	E

2

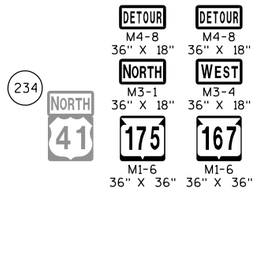
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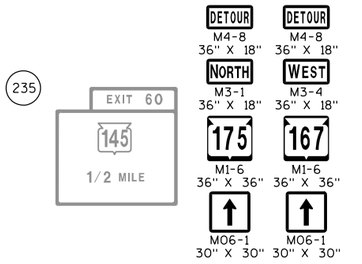
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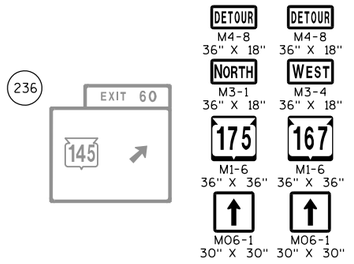
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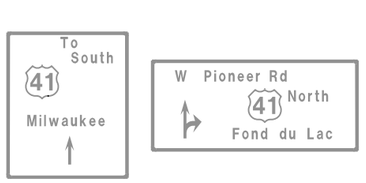
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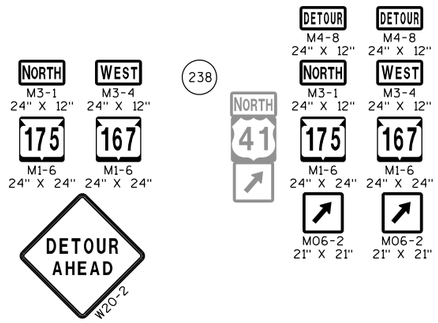
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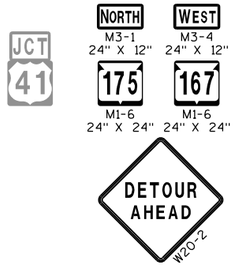
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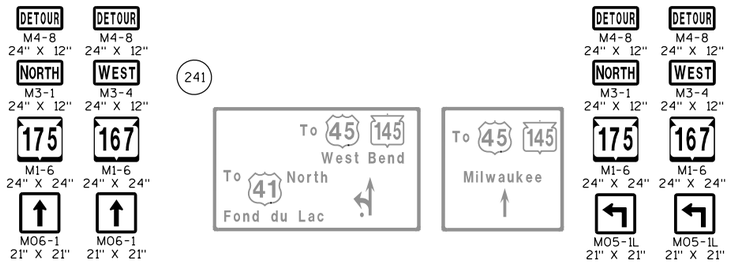
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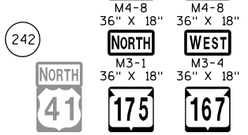
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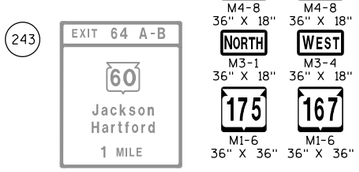
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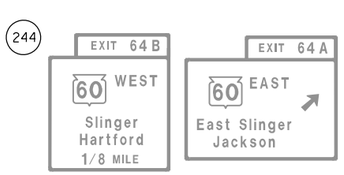
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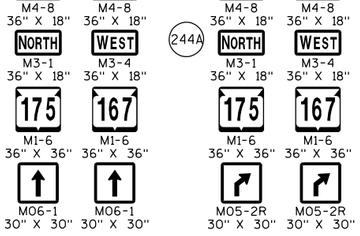
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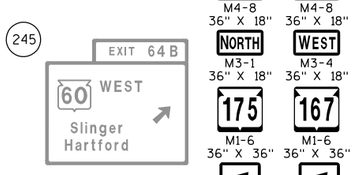
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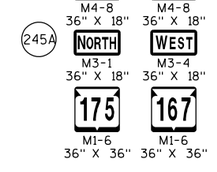
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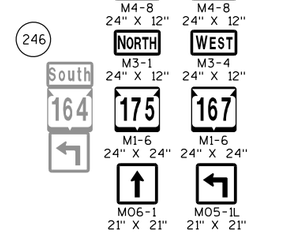
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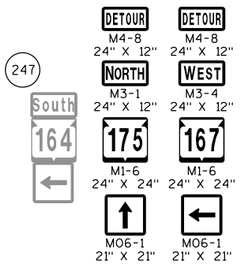
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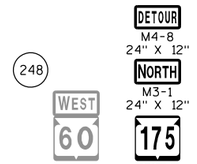
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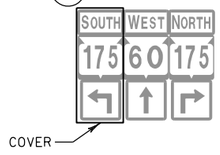
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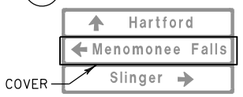
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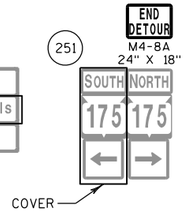
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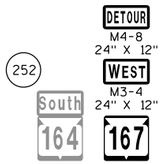
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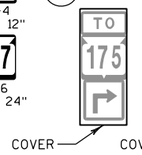
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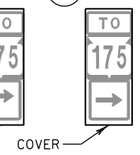
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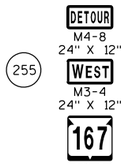
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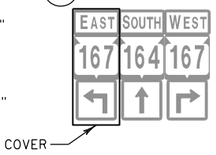
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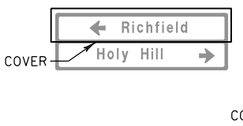
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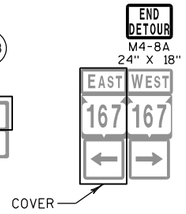
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257



258



NOTE:
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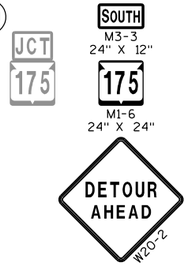
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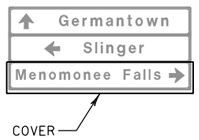
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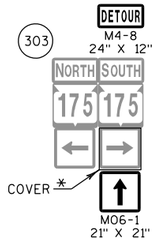
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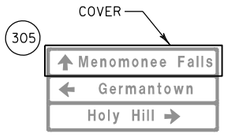
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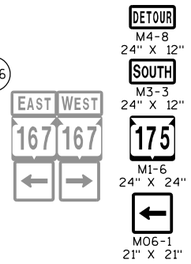
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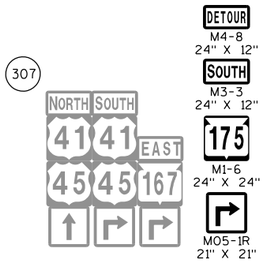
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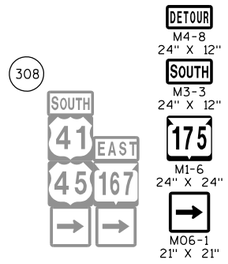
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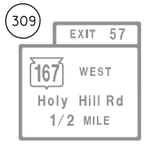
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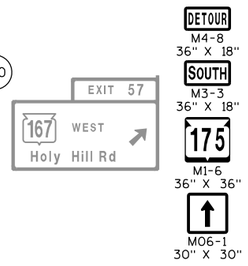


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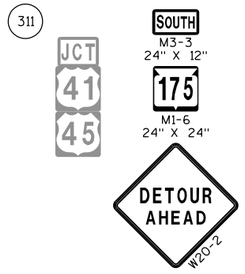




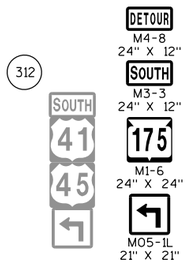
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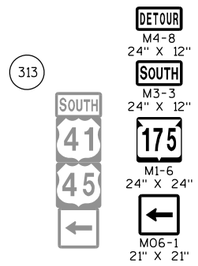
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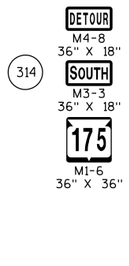
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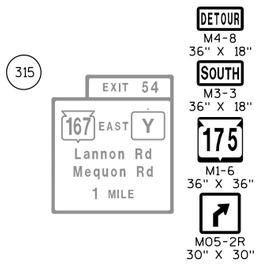
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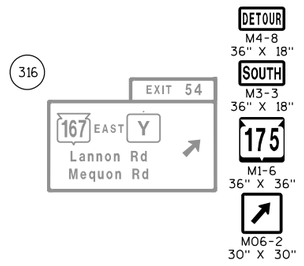
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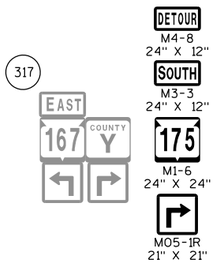
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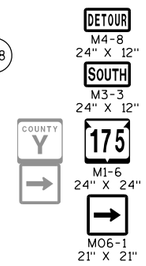
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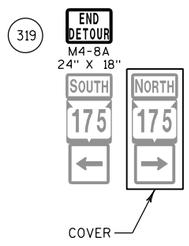
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NOTE:
*PLACE OVER EXISTING SIGN

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	DETOUR - STAGE 3 (SB STH 175)	SHEET 185	E

2

60 60 60 60 60

175 41 175 41 45 45

COUNTY K COUNTY K COUNTY K COUNTY K

COUNTY E COUNTY E COUNTY E

COUNTY CC COUNTY CC

COUNTY P COUNTY G COUNTY G

COUNTY Y COUNTY Y

83 83

164 164

167 167 167

145 145

COUNTY Q

SHERMAN RD

SHERMAN RD

RD

DR

FOND DU LAC DR

WESTERN AVE

PIONEER RD

PIONEER RD

PIONEER TOWN LINE RD

RD

SLINGER RD

HILLSIDE RD

RD

RD

PLEASANT HILL RD

HOLY HILL RD

SCENIC RD

C/W

MAYFIELD RD

HUBERTUS RD

BARK LK RD

AMYBELLE RD

LANNON RD

WSOR

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DETOUR ROUTE

BEECHWOOD INDUSTRIAL COURT TO
STH 167 CONSTRUCTION

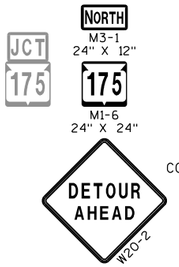
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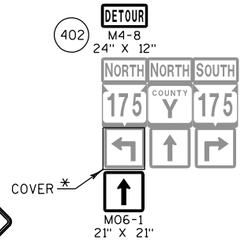
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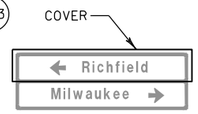
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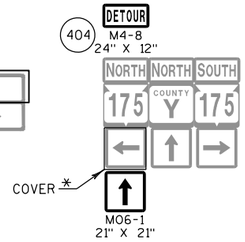
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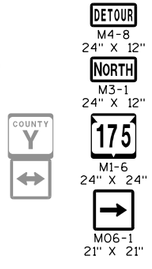
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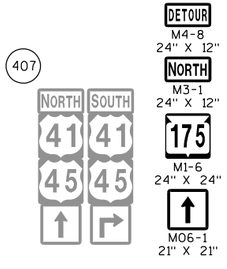
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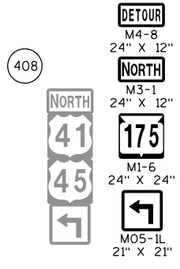
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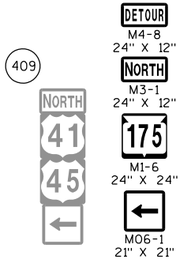
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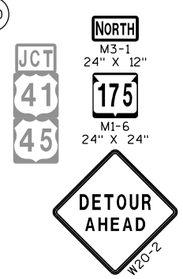
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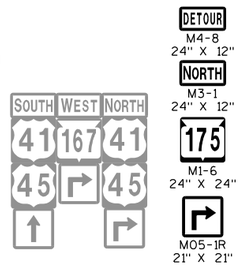
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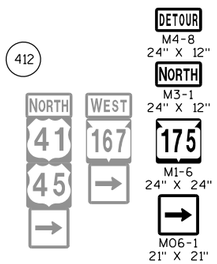
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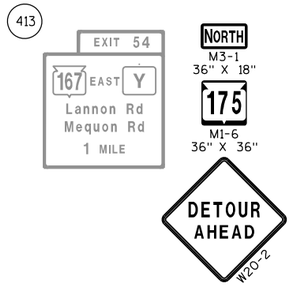
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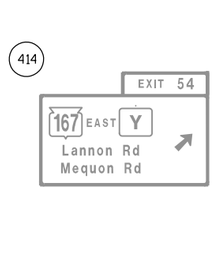
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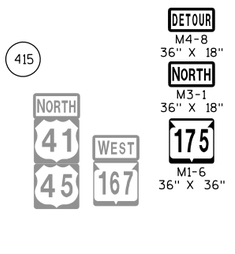
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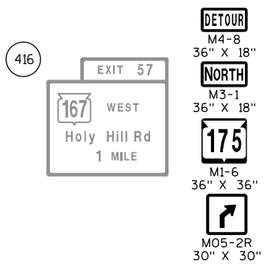
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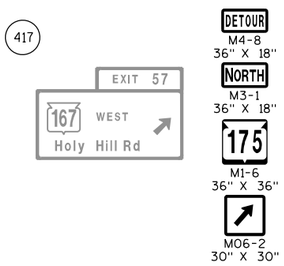
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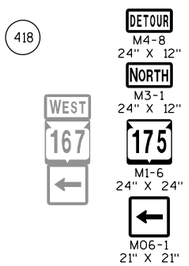
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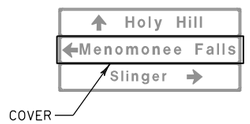
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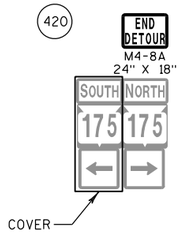
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(419)



(420)



NOTE:
*PLACE OVER EXISTING SIGN

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	DETOUR - STAGE 3 (NB STH 175)	SHEET 187	E

2

PI = 1085+67.77
Y = 114 870.21
X = 361 721.7

1/16 LINE

T 9 N R 19 E
13 24 13 24
N=1960955.73
E=2598523.73
WASHINGTON COUNTY BDY. M/
BRASS CAP

HUBERTUS RD

1090+00

STH 175

1095+00

CP 9310

1100+00

1105+00

1110+00

1115+00

N17°19'11"W

CP 150

PI 1085+67.77

BEGIN PROJECT
STA. 1086+00
Y = 114 900.97
X = 361 711.78

FREISTADT RD

T 9 N R 19 E
13 24 19 18
N=1959805.62
E=2592478.83
WASHINGTON COUNTY
CONC. M/
BRASS CAP

1/16 LINE

1/16 LINE

1/16 LINE

1/16 LINE

N

PI = 1113+19.15
Y = 117 496.83
X = 360 902.28

PI 1113+19.15

CP 9311

STA 1116+00

MATCH LINE

2

STA 1116+00

MATCH LINE

1120+00

N17°45'27"W

1125+00

PI 1125+28.14

T 9 N R 19 E
13 13 13 13
N=1960603.34
E=2595867.14
WASHINGTON COUNTY
CONC. M/
BRASS CAP

PI = 1125+28.14
Y 118 648.22
X 360 533.55
Δ = 8°50'13" (RT)
D = 4°00'00"
T = 110.68'
L = 220.93'
R = 1432.39'
PC = 1124+17.46
PT = 1126+38.38

1130+00

N8°55'14"W

1135+00

CP 4081

1/16 LINE

T 9 N R 19 E
13 13 18 18
N=1962284.96
E=2592628.66
CONC. M/
BRASS CAP
CITY OF WEST BEND
WASHINGTON COUNTY

1/16 LINE

1/4 LINE

N

PI = 1140+70.42
Y = 120 172.28
X = 360 294.33

CP 9313

1140+00

STH 175

N8°58'19"W

1145+00

PI 1140+70.42

STA 1146+00

MATCH LINE

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	ALIGNMENT DIAGRAM - STH 175	SHEET 188	E

2

PI = 1150+88.45
Y 121 177.85
X 360 135.57
Δ = 15°18'57" (LT)
D = 4°00'00"
T = 192.60'
L = 382.90'
R = 1432.39'
PC = 1148+95.85
PT = 1152+78.75

N=123098.17
E=535927.17
CONC. MON. W/ BRASS CAP

T 9 N R 19 E
12 | 13
12 | 13

1/4 LINE

STH 167

STA 1146+00

MATCH LINE

STH 175
N8°58'19"W

1150+00

1155+00

1160+00
N24°17'16"W

1165+00

PI 1166+73.72

1/16 LINE

1170+00

1175+00
N20°21'47"W

STA 1176+00

MATCH LINE

PI = 1173+60.00
Y = 123 268.37
X = 359 243.74

CP 3089

PI 1173+60.00

PI 1150+88.45

STH 167

N=122781.81
E=536240.01
MEDIAN BRIDGE DECK CAP

T 9 N R 20 E
7 | 18
12 | 13

1/4 LINE

PI = 1166+73.72
Y 122 624.91
X 359 482.57
Δ = 3°55'28" (RT)
D = 2°00'00"
T = 98.15'
L = 196.23'
R = 2864.79'
PC = 1165+75.57
PT = 1167+71.80

N

T 9 N R 19 E
11 | 12
12 | 13

N=123238.01
E=535727.57
CONC. MON. W/ BRASS CAP

PI = 1191+70.07
Y 124 921.89
X 358 516.56
Δ = 1°50'23" (LT)
D = 0°30'00"
T = 183.99'
L = 367.95'
R = 11459.16'
PC = 1189+86.08
PT = 1193+54.02

END PROJECT
STA. 1194+05
Y = 125 125.47
X = 358 398.95

1205+00

STH 175

1200+00
N30°00'56"W

1195+00

PI 1206+39.97

PI = 1206+39.97
Y = 126 194.69
X = 357 781.25

1/16 LINE

1/4 LINE

PI = 1184+33.43
Y 124 272.53
X 358 864.39
Δ = 7°28'49" (LT)
D = 1°35'36"
T = 235.08'
L = 469.50'
R = 3596.18'
PC = 1181+98.34
PT = 1186+67.84

CP 5003

STA 1176+00

MATCH LINE

1180+00
N20°41'44"W

1185+00

1190+00
N28°10'33"W

PI 1184+33.43

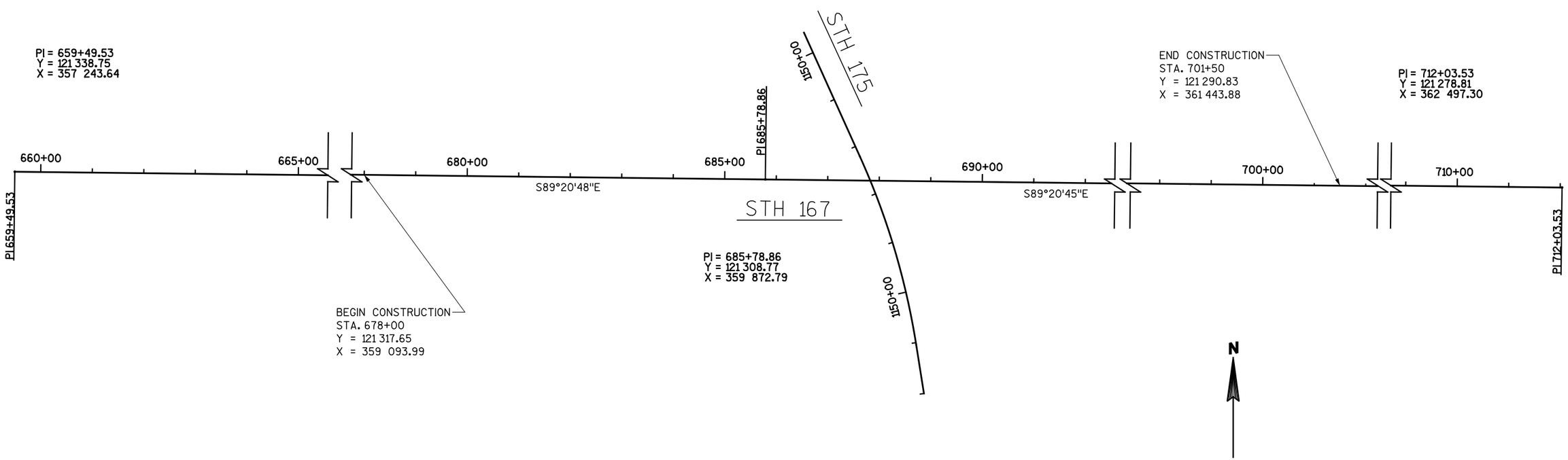
1186+67.84 BACK =
1186+68.50 AHEAD

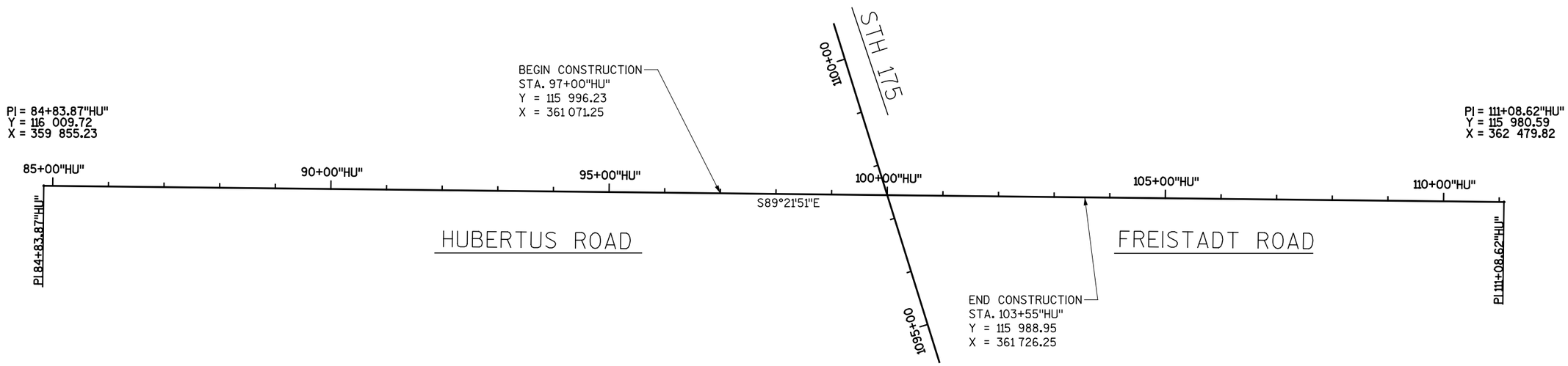
EQUATION

PI 1191+70.07

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	ALIGNMENT DIAGRAM - STH 175	SHEET 189	E

2

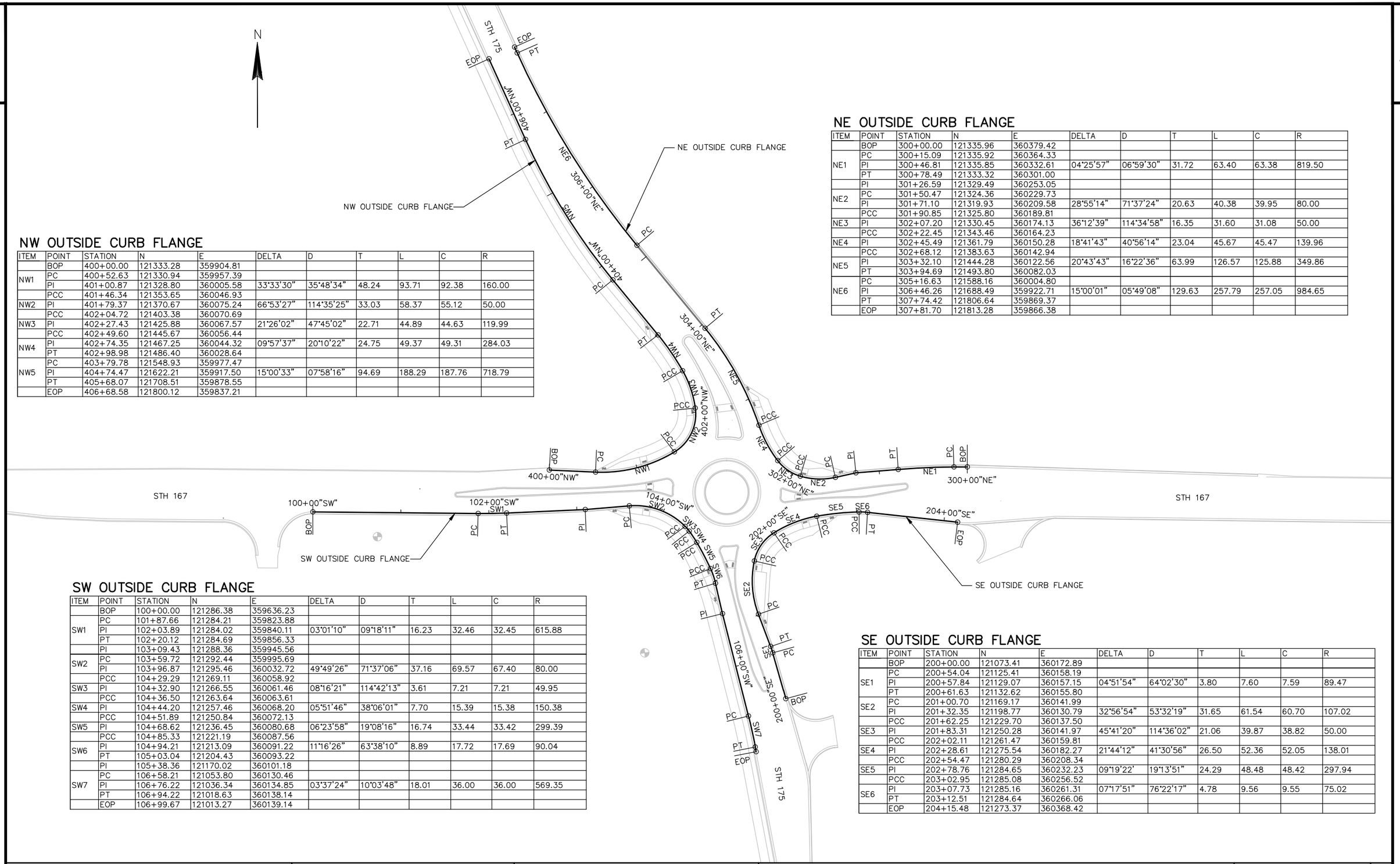




PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	ALIGNMENT DIAGRAM - SIDEROADS	SHEET	E

FILE NAME : W:\x-Projects\RD\7140\project 1 dgn\027203_ad.dgn PLOT DATE : 10/31/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 200.0000 sf / in.
WISDOT/CADDS SHEET 42

2



NW OUTSIDE CURB FLANGE

ITEM	POINT	STATION	N	E	DELTA	D	T	L	C	R
	BOP	400+00.00	121333.28	359904.81						
NW1	PC	400+52.63	121330.94	359957.39						
	PI	401+00.87	121328.80	360005.58	33°33'30"	35°48'34"	48.24	93.71	92.38	160.00
	PCC	401+46.34	121353.65	360046.93						
NW2	PI	401+79.37	121370.67	360075.24	66°53'27"	114°35'25"	33.03	58.37	55.12	50.00
	PCC	402+04.72	121403.38	360070.69						
NW3	PI	402+27.43	121425.88	360067.57	21°26'02"	47°45'02"	22.71	44.89	44.63	119.99
	PCC	402+49.60	121445.67	360056.44						
NW4	PI	402+74.35	121467.25	360044.32	09°57'37"	20°10'22"	24.75	49.37	49.31	284.03
	PT	402+98.98	121486.40	360028.64						
	PC	403+79.78	121548.93	359977.47						
NW5	PI	404+74.47	121622.21	359917.50	15°00'33"	07°58'16"	94.69	188.29	187.76	718.79
	PT	405+68.07	121708.51	359878.55						
	EOP	406+68.58	121800.12	359837.21						

NE OUTSIDE CURB FLANGE

ITEM	POINT	STATION	N	E	DELTA	D	T	L	C	R
	BOP	300+00.00	121335.96	360379.42						
	PC	300+15.09	121335.92	360364.33						
NE1	PI	300+46.81	121335.85	360332.61	04°25'57"	06°59'30"	31.72	63.40	63.38	819.50
	PT	300+78.49	121333.32	360301.00						
	PI	301+26.59	121329.49	360253.05						
	PC	301+50.47	121324.36	360229.73						
NE2	PI	301+71.10	121319.93	360209.58	28°55'14"	71°37'24"	20.63	40.38	39.95	80.00
	PCC	301+90.85	121325.80	360189.81						
NE3	PI	302+07.20	121330.45	360174.13	36°12'39"	114°34'58"	16.35	31.60	31.08	50.00
	PCC	302+22.45	121343.46	360164.23						
NE4	PI	302+45.49	121361.79	360150.28	18°41'43"	40°56'14"	23.04	45.67	45.47	139.96
	PCC	302+68.12	121383.63	360142.94						
NE5	PI	303+32.10	121444.28	360122.56	20°43'43"	16°22'36"	63.99	126.57	125.88	349.86
	PT	303+94.69	121493.80	360082.03						
	PC	305+16.63	121588.16	360004.80						
NE6	PI	306+46.26	121688.49	359922.71	15°00'01"	05°49'08"	129.63	257.79	257.05	984.65
	PT	307+74.42	121806.64	359869.37						
	EOP	307+81.70	121813.28	359866.38						

SW OUTSIDE CURB FLANGE

ITEM	POINT	STATION	N	E	DELTA	D	T	L	C	R
	BOP	100+00.00	121286.38	359636.23						
	PC	101+87.66	121284.21	359823.88						
SW1	PI	102+03.89	121284.02	359840.11	03°01'10"	09°18'11"	16.23	32.46	32.45	615.88
	PT	102+20.12	121284.69	359856.33						
	PI	103+09.43	121288.36	359945.56						
SW2	PC	103+59.72	121292.44	359995.69						
	PI	103+96.87	121295.46	360032.72	49°49'26"	71°37'06"	37.16	69.57	67.40	80.00
	PCC	104+29.29	121269.11	360058.92						
SW3	PI	104+32.90	121266.55	360061.46	08°16'21"	114°42'13"	3.61	7.21	7.21	49.95
	PCC	104+36.50	121263.64	360063.61						
SW4	PI	104+44.20	121257.46	360068.20	05°51'46"	38°06'01"	7.70	15.39	15.38	150.38
	PCC	104+51.89	121250.84	360072.13						
SW5	PI	104+68.62	121236.45	360080.68	06°23'58"	19°08'16"	16.74	33.44	33.42	299.39
	PCC	104+85.33	121221.19	360087.56						
SW6	PI	104+94.21	121213.09	360091.22	11°16'26"	63°38'10"	8.89	17.72	17.69	90.04
	PT	105+03.04	121204.43	360093.22						
	PI	105+38.36	121170.02	360101.18						
	PC	106+58.21	121053.80	360130.46						
SW7	PI	106+76.22	121036.34	360134.85	03°37'24"	10°03'48"	18.01	36.00	36.00	569.35
	PT	106+94.22	121018.63	360138.14						
	EOP	106+99.67	121013.27	360139.14						

SE OUTSIDE CURB FLANGE

ITEM	POINT	STATION	N	E	DELTA	D	T	L	C	R
	BOP	200+00.00	121073.41	360172.89						
	PC	200+54.04	121125.41	360158.19						
SE1	PI	200+57.84	121129.07	360157.15	04°51'54"	64°02'30"	3.80	7.60	7.59	89.47
	PT	200+61.63	121132.62	360155.80						
	PC	201+00.70	121169.17	360141.99						
SE2	PI	201+32.35	121198.77	360130.79	32°56'54"	53°32'19"	31.65	61.54	60.70	107.02
	PCC	201+62.25	121229.70	360137.50						
SE3	PI	201+83.31	121250.28	360141.97	45°41'20"	114°36'02"	21.06	39.87	38.82	50.00
	PCC	202+02.11	121261.47	360159.81						
SE4	PI	202+28.61	121275.54	360182.27	21°44'12"	41°30'56"	26.50	52.36	52.05	138.01
	PCC	202+54.47	121280.29	360208.34						
SE5	PI	202+78.76	121284.65	360232.23	09°19'22"	19°13'51"	24.29	48.48	48.42	297.94
	PCC	203+02.95	121285.08	360256.52						
SE6	PI	203+07.73	121285.16	360261.31	07°17'51"	76°22'17"	4.78	9.56	9.55	75.02
	PT	203+12.51	121284.64	360266.06						
	EOP	204+15.48	121273.37	360368.42						

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	ALIGNMENT DIAGRAM – STH 167 ROUNDABOUT (OUTSIDE CURB)	SHEET	E

FILE NAME: W:\x-Projects\RD\7140\project 1 dgn\027204_ad.dwg PLOT DATE: Oct 17, 2014 PLOT BY: luke0 PLOT SCALE: ROTATION:

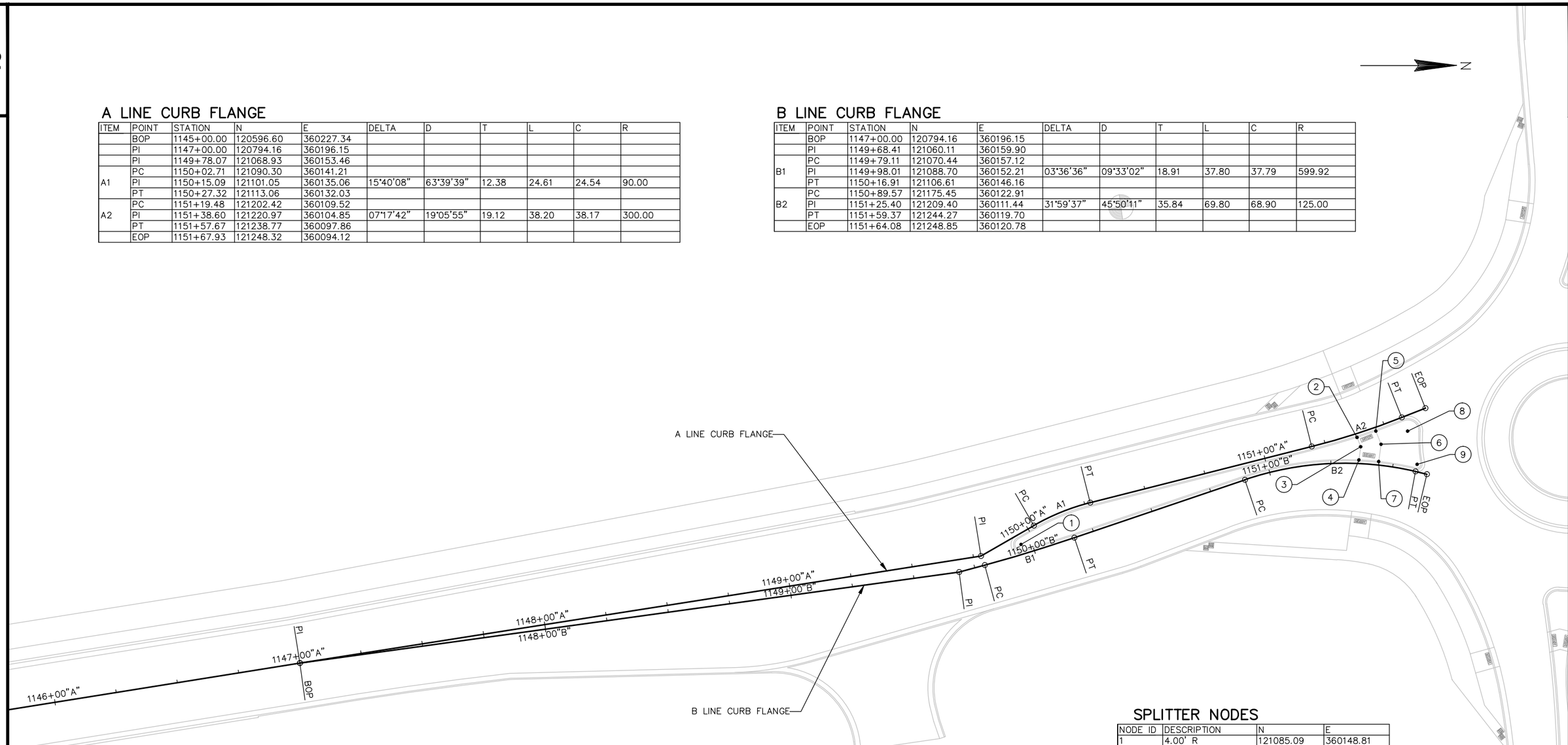
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A LINE CURB FLANGE

ITEM	POINT	STATION	N	E	DELTA	D	T	L	C	R
	BOP	1145+00.00	120596.60	360227.34						
	PI	1147+00.00	120794.16	360196.15						
	PI	1149+78.07	121068.93	360153.46						
	PC	1150+02.71	121090.30	360141.21						
A1	PI	1150+15.09	121101.05	360135.06	15°40'08"	63°39'39"	12.38	24.61	24.54	90.00
	PT	1150+27.32	121113.06	360132.03						
	PC	1151+19.48	121202.42	360109.52						
A2	PI	1151+38.60	121220.97	360104.85	07°17'42"	19°05'55"	19.12	38.20	38.17	300.00
	PT	1151+57.67	121238.77	360097.86						
	EOP	1151+67.93	121248.32	360094.12						

B LINE CURB FLANGE

ITEM	POINT	STATION	N	E	DELTA	D	T	L	C	R
	BOP	1147+00.00	120794.16	360196.15						
	PI	1149+68.41	121060.11	360159.90						
	PC	1149+79.11	121070.44	360157.12						
B1	PI	1149+98.01	121088.70	360152.21	03°36'36"	09°33'02"	18.91	37.80	37.79	599.92
	PT	1150+16.91	121106.61	360146.16						
	PC	1150+89.57	121175.45	360122.91						
B2	PI	1151+25.40	121209.40	360111.44	31°59'37"	45°50'11"	35.84	69.80	68.90	125.00
	PT	1151+59.37	121244.27	360119.70						
	EOP	1151+64.08	121248.85	360120.78						



SPLITTER NODES

NODE ID	DESCRIPTION	N	E
1	4.00' R	121085.09	360148.81
2	BACK OF CURB	121220.73	360105.86
3	DEFLECTION POINT	121222.20	360109.63
4	BACK OF CURB	121221.46	360114.97
5	BACK OF CURB	121228.33	360103.33
6	DEFLECTION POINT	121230.41	360108.67
7	BACK OF CURB	121229.45	360115.61
8	6.00' R	121241.15	360103.37
9	3.00' R	121244.96	360116.78

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	ALIGNMENT DIAGRAM – STH 167 ROUNDABOUT (SOUTH LEG SPLITTER)	SHEET	E

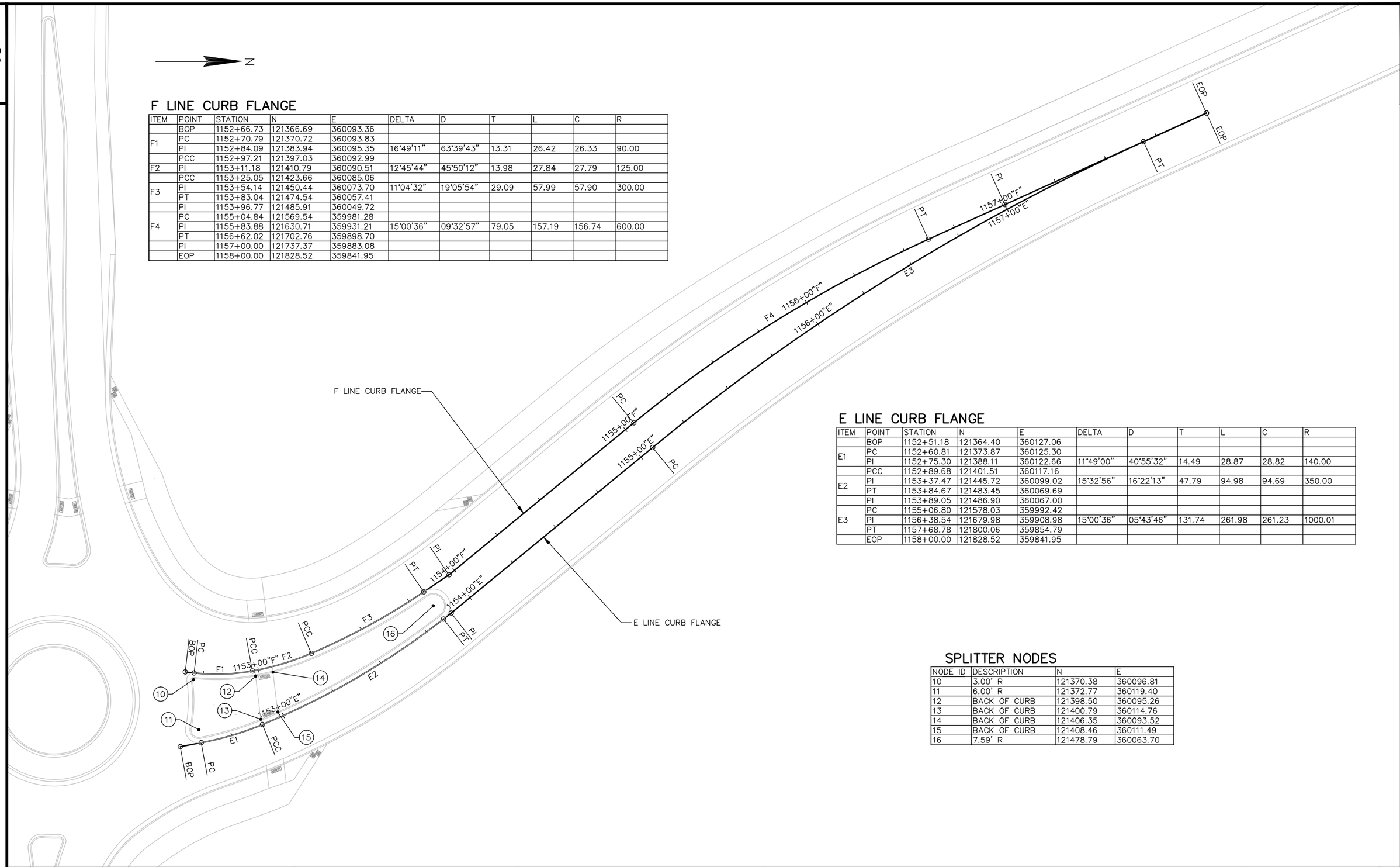
FILE NAME: W:\x-Projects\RD\7140\project 1 dgn\027205_ad.dwg PLOT DATE: Oct 17, 2014 PLOT BY: luke0 PLOT SCALE: ROTATION:

2

N

F LINE CURB FLANGE

ITEM	POINT	STATION	N	E	DELTA	D	T	L	C	R
	BOP	1152+66.73	121366.69	360093.36						
F1	PC	1152+70.79	121370.72	360093.83						
	PI	1152+84.09	121383.94	360095.35	16°49'11"	63°39'43"	13.31	26.42	26.33	90.00
	PCC	1152+97.21	121397.03	360092.99						
F2	PI	1153+11.18	121410.79	360090.51	12°45'44"	45°50'12"	13.98	27.84	27.79	125.00
	PCC	1153+25.05	121423.66	360085.06						
F3	PI	1153+54.14	121450.44	360073.70	11°04'32"	19°05'54"	29.09	57.99	57.90	300.00
	PT	1153+83.04	121474.54	360057.41						
	PI	1153+96.77	121485.91	360049.72						
	PC	1155+04.84	121569.54	359981.28						
F4	PI	1155+83.88	121630.71	359931.21	15°00'36"	09°32'57"	79.05	157.19	156.74	600.00
	PT	1156+62.02	121702.76	359898.70						
	PI	1157+00.00	121737.37	359883.08						
	EOP	1158+00.00	121828.52	359841.95						



E LINE CURB FLANGE

ITEM	POINT	STATION	N	E	DELTA	D	T	L	C	R
	BOP	1152+51.18	121364.40	360127.06						
E1	PC	1152+60.81	121373.87	360125.30						
	PI	1152+75.30	121388.11	360122.66	11°49'00"	40°55'32"	14.49	28.87	28.82	140.00
	PCC	1152+89.68	121401.51	360117.16						
E2	PI	1153+37.47	121445.72	360099.02	15°32'56"	16°22'13"	47.79	94.98	94.69	350.00
	PT	1153+84.67	121483.45	360069.69						
	PI	1153+89.05	121486.90	360067.00						
	PC	1155+06.80	121578.03	359992.42						
E3	PI	1156+38.54	121679.98	359908.98	15°00'36"	05°43'46"	131.74	261.98	261.23	1000.01
	PT	1157+68.78	121800.06	359854.79						
	EOP	1158+00.00	121828.52	359841.95						

SPLITTER NODES

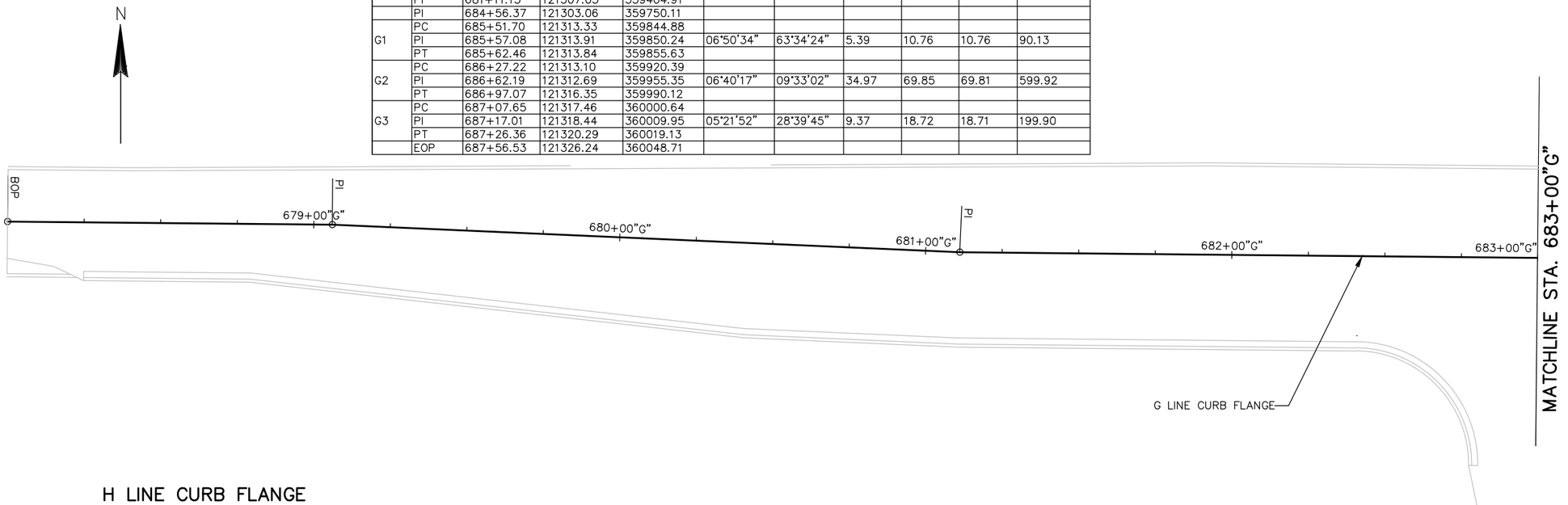
NODE ID	DESCRIPTION	N	E
10	3.00' R	121370.38	360096.81
11	6.00' R	121372.77	360119.40
12	BACK OF CURB	121398.50	360095.26
13	BACK OF CURB	121400.79	360114.76
14	BACK OF CURB	121406.35	360093.52
15	BACK OF CURB	121408.46	360111.49
16	7.59' R	121478.79	360063.70

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	ALIGNMENT DIAGRAM – STH 167 ROUNDABOUT (NORTH LEG SPLITTER)	SHEET	E

FILE NAME: W:\x-Projects\RD\7140\project 1 dgn\027206_ad.dwg PLOT DATE: Oct 17, 2014 PLOT BY: luke0 PLOT SCALE: ROTATION:

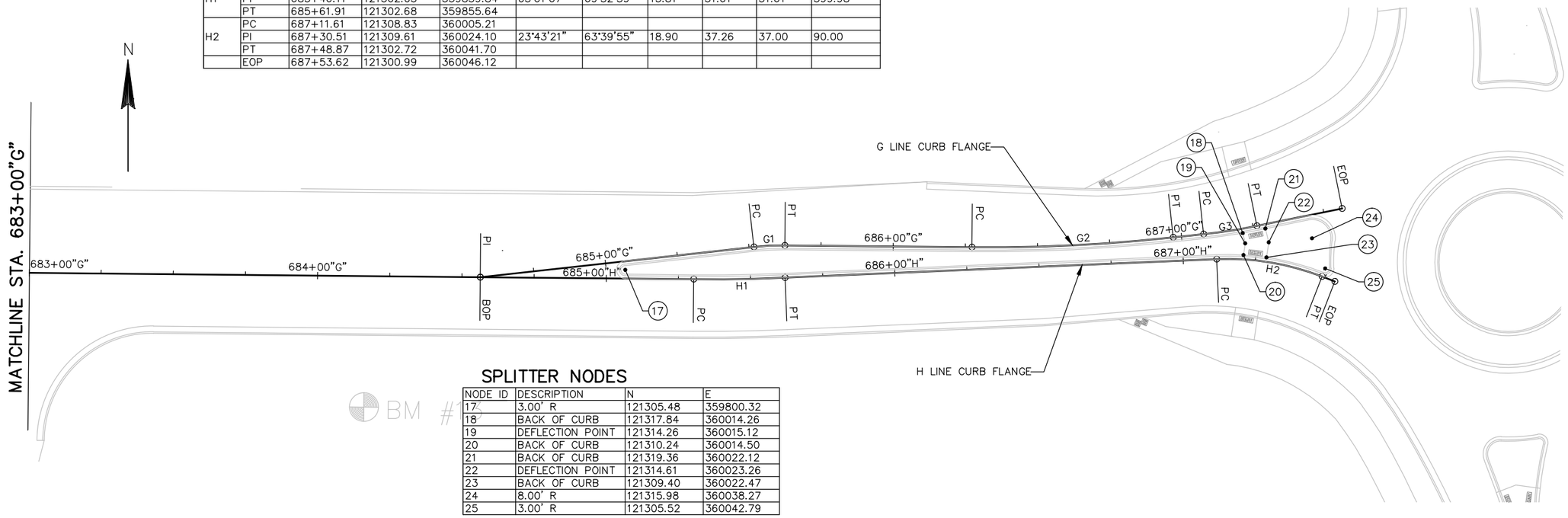
G LINE CURB FLANGE

ITEM	POINT	STATION	N	E	DELTA	D	T	L	C	R
	BOP	678+00.00	121317.66	359093.99						
	PI	679+06.03	121316.45	359200.01						
	PI	681+11.15	121307.05	359404.91						
	PI	684+56.37	121303.06	359750.11						
G1	PC	685+51.70	121313.33	359844.88						
	PI	685+57.08	121313.91	359850.24	06°50'34"	63°34'24"	5.39	10.76	10.76	90.13
	PT	685+62.46	121313.84	359855.63						
G2	PC	686+27.22	121313.10	359920.39						
	PI	686+62.19	121312.69	359955.35	06°40'17"	09°33'02"	34.97	69.85	69.81	599.92
	PT	686+97.07	121316.35	359990.12						
G3	PC	687+07.65	121317.46	360000.64						
	PI	687+17.01	121318.44	360009.95	05°21'52"	28°39'45"	9.37	18.72	18.71	199.90
	PT	687+26.36	121320.29	360019.13						
	EOP	687+56.53	121326.24	360048.71						



H LINE CURB FLANGE

ITEM	POINT	STATION	N	E	DELTA	D	T	L	C	R
	BOP	684+56.37	121303.06	359750.11						
	PC	685+30.30	121302.21	359824.04						
H1	PI	685+46.11	121302.03	359839.84	03°01'07"	09°32'59"	15.81	31.61	31.61	599.98
	PT	685+61.91	121302.68	359855.64						
	PC	687+11.61	121308.83	360005.21						
H2	PI	687+30.51	121309.61	360024.10	23°43'21"	63°39'55"	18.90	37.26	37.00	90.00
	PT	687+48.87	121302.72	360041.70						
	EOP	687+53.62	121300.99	360046.12						



SPLITTER NODES

NODE ID	DESCRIPTION	N	E
17	3.00' R	121305.48	359800.32
18	BACK OF CURB	121317.84	360014.26
19	DEFLECTION POINT	121314.26	360015.12
20	BACK OF CURB	121310.24	360014.50
21	BACK OF CURB	121319.36	360022.12
22	DEFLECTION POINT	121314.61	360023.26
23	BACK OF CURB	121309.40	360022.47
24	8.00' R	121315.98	360038.27
25	3.00' R	121305.52	360042.79

BM #16

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	ALIGNMENT DIAGRAM – STH 167 ROUNDABOUT (WEST LEG SPLITTER)	SHEET	E

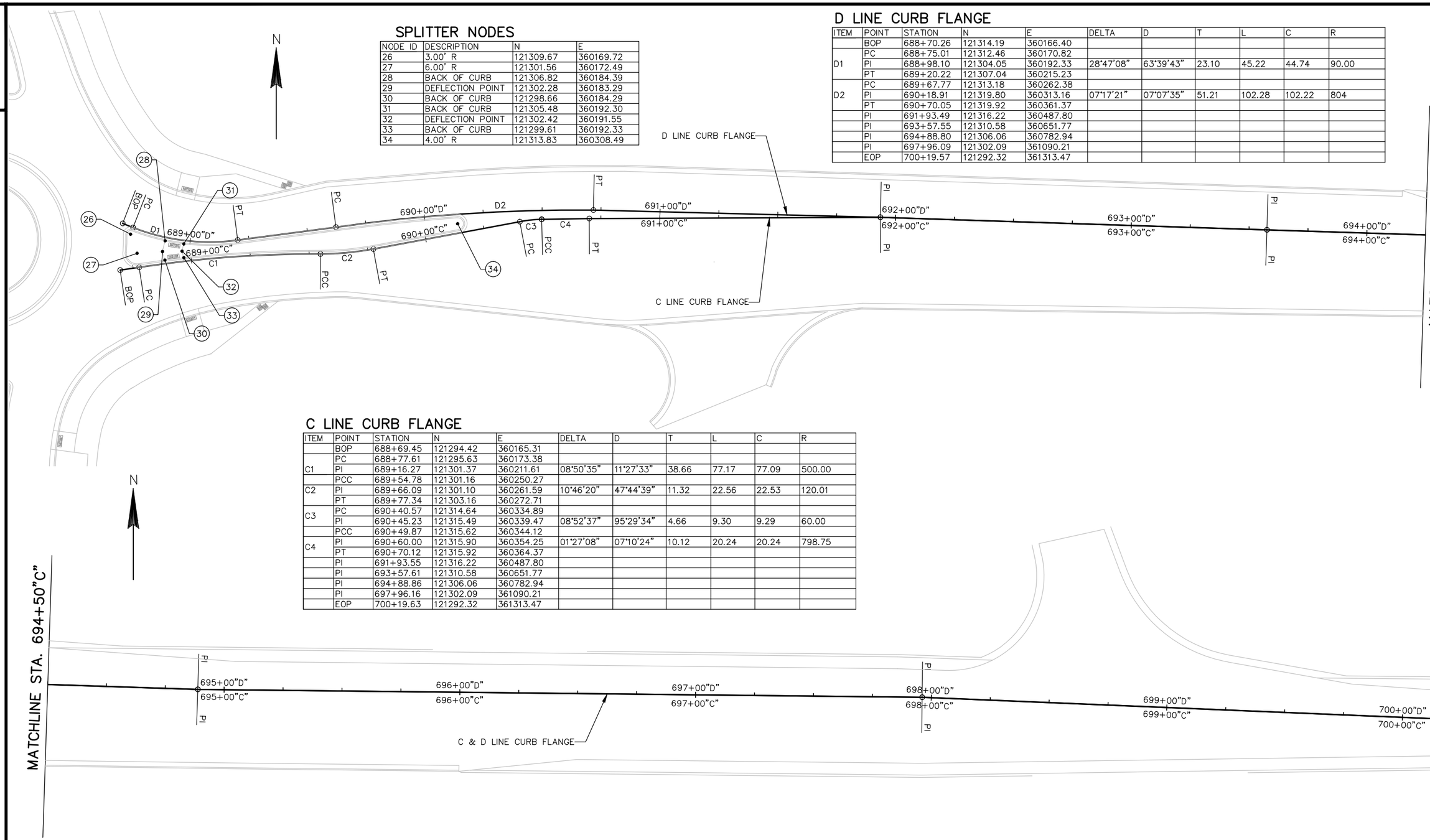
FILE NAME: W:\x-Projects\RD\7140\project 1 dgn\027207_ad.dwg PLOT DATE: Oct 17, 2014 PLOT BY: luke0 PLOT SCALE: ROTATION:

SPLITTER NODES

NODE ID	DESCRIPTION	N	E
26	3.00' R	121309.67	360169.72
27	6.00' R	121301.56	360172.49
28	BACK OF CURB	121306.82	360184.39
29	DEFLECTION POINT	121302.28	360183.29
30	BACK OF CURB	121298.66	360184.29
31	BACK OF CURB	121305.48	360192.30
32	DEFLECTION POINT	121302.42	360191.55
33	BACK OF CURB	121299.61	360192.33
34	4.00' R	121313.83	360308.49

D LINE CURB FLANGE

ITEM	POINT	STATION	N	E	DELTA	D	T	L	C	R
	BOP	688+70.26	121314.19	360166.40						
	PC	688+75.01	121312.46	360170.82						
D1	PI	688+98.10	121304.05	360192.33	28°47'08"	63°39'43"	23.10	45.22	44.74	90.00
	PT	689+20.22	121307.04	360215.23						
	PC	689+67.77	121313.18	360262.38						
D2	PI	690+18.91	121319.80	360313.16	07°17'21"	07°07'35"	51.21	102.28	102.22	804
	PT	690+70.05	121319.92	360361.37						
	PI	691+93.49	121316.22	360487.80						
	PI	693+57.55	121310.58	360651.77						
	PI	694+88.80	121306.06	360782.94						
	PI	697+96.09	121302.09	361090.21						
	EOP	700+19.57	121292.32	361313.47						



C LINE CURB FLANGE

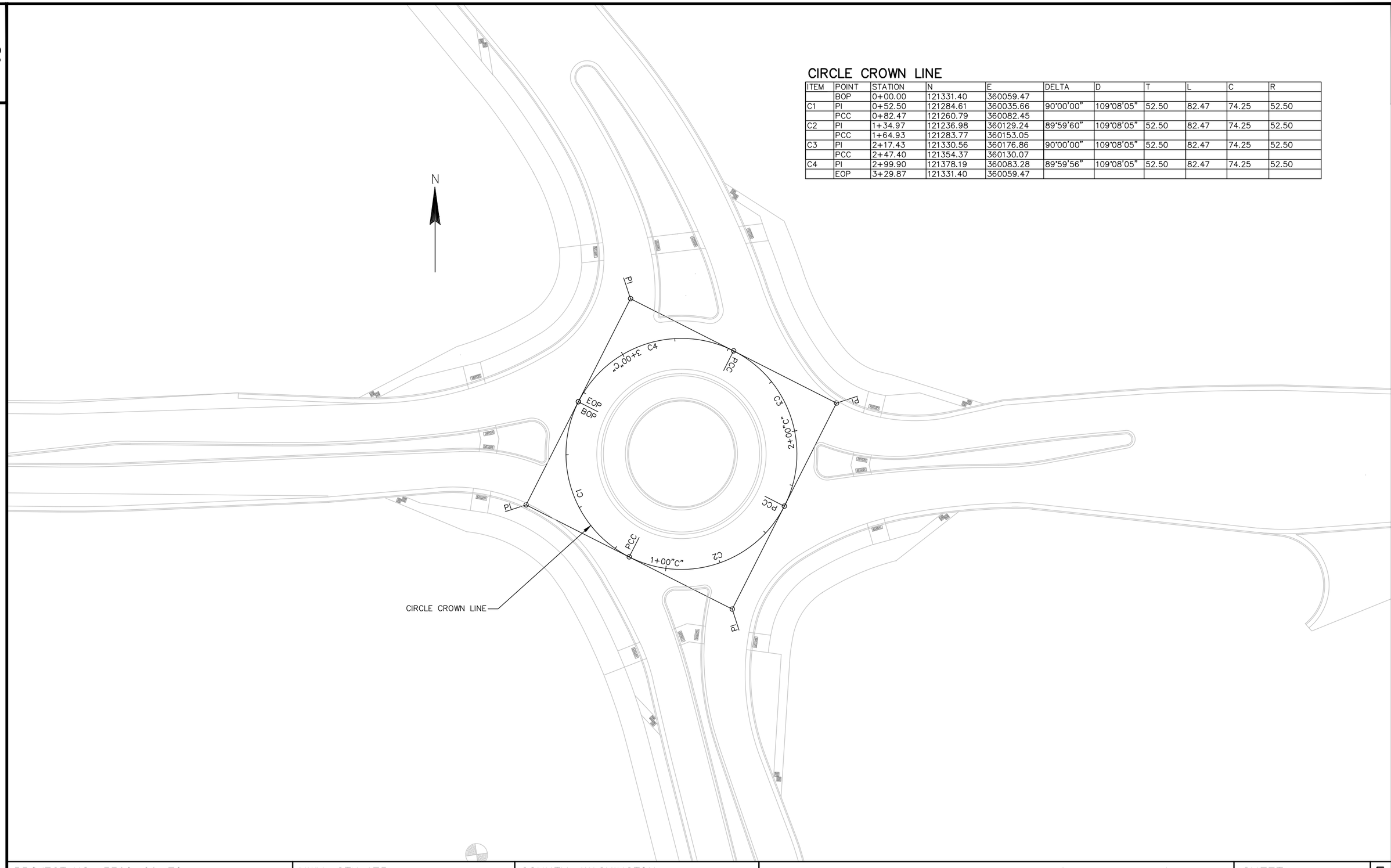
ITEM	POINT	STATION	N	E	DELTA	D	T	L	C	R
	BOP	688+69.45	121294.42	360165.31						
	PC	688+77.61	121295.63	360173.38						
C1	PI	689+16.27	121301.37	360211.61	08°50'35"	11°27'33"	38.66	77.17	77.09	500.00
	PCC	689+54.78	121301.16	360250.27						
C2	PI	689+66.09	121301.10	360261.59	10°46'20"	47°44'39"	11.32	22.56	22.53	120.01
	PT	689+77.34	121303.16	360272.71						
	PC	690+40.57	121314.64	360334.89						
C3	PI	690+45.23	121315.49	360339.47	08°52'37"	95°29'34"	4.66	9.30	9.29	60.00
	PCC	690+49.87	121315.62	360344.12						
	PI	690+60.00	121315.90	360354.25	01°27'08"	07°10'24"	10.12	20.24	20.24	798.75
C4	PT	690+70.12	121315.92	360364.37						
	PI	691+93.55	121316.22	360487.80						
	PI	693+57.61	121310.58	360651.77						
	PI	694+88.86	121306.06	360782.94						
	PI	697+96.16	121302.09	361090.21						
	EOP	700+19.63	121292.32	361313.47						

2

2

CIRCLE CROWN LINE

ITEM	POINT	STATION	N	E	DELTA	D	T	L	C	R
	BOP	0+00.00	121331.40	360059.47						
C1	PI	0+52.50	121284.61	360035.66	90°00'00"	109°08'05"	52.50	82.47	74.25	52.50
	PCC	0+82.47	121260.79	360082.45						
C2	PI	1+34.97	121236.98	360129.24	89°59'60"	109°08'05"	52.50	82.47	74.25	52.50
	PCC	1+64.93	121283.77	360153.05						
C3	PI	2+17.43	121330.56	360176.86	90°00'00"	109°08'05"	52.50	82.47	74.25	52.50
	PCC	2+47.40	121354.37	360130.07						
C4	PI	2+99.90	121378.19	360083.28	89°59'56"	109°08'05"	52.50	82.47	74.25	52.50
	EOP	3+29.87	121331.40	360059.47						

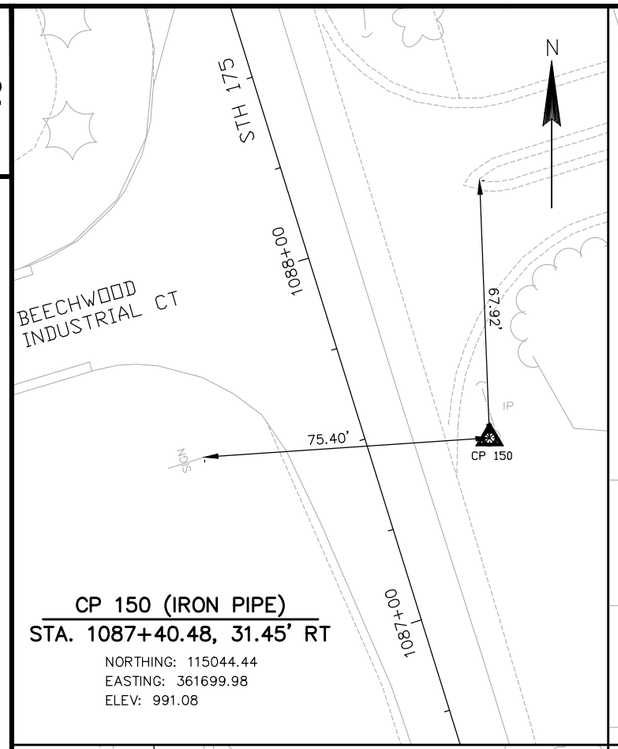


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	ALIGNMENT DIAGRAM – STH 167 ROUNDABOUT (CIRCLE SPLITTER)	SHEET	E

FILE NAME: W:\x-Projects\RD\7140\project 1 dgn\027209_ad.dwg PLOT DATE: Oct 17, 2014 PLOT BY: luke0 PLOT SCALE: ROTATION:

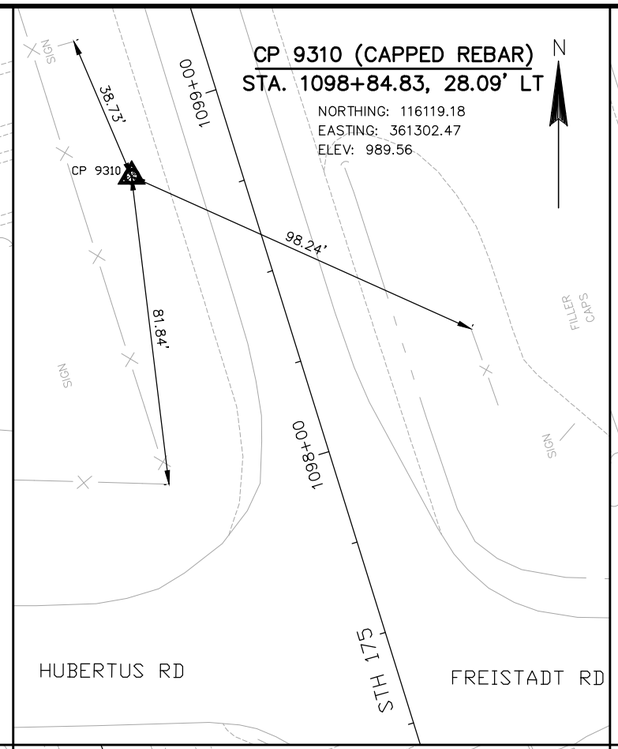
CP 150 (IRON PIPE)
STA. 1087+40.48, 31.45' RT

NORTHING: 115044.44
EASTING: 361699.98
ELEV: 991.08



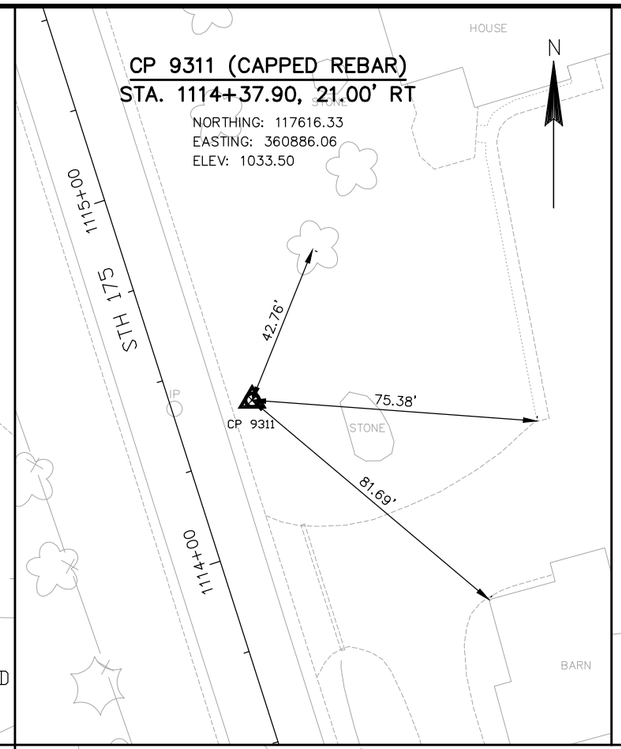
CP 9310 (CAPPED REBAR)
STA. 1098+84.83, 28.09' LT

NORTHING: 116119.18
EASTING: 361302.47
ELEV: 989.56



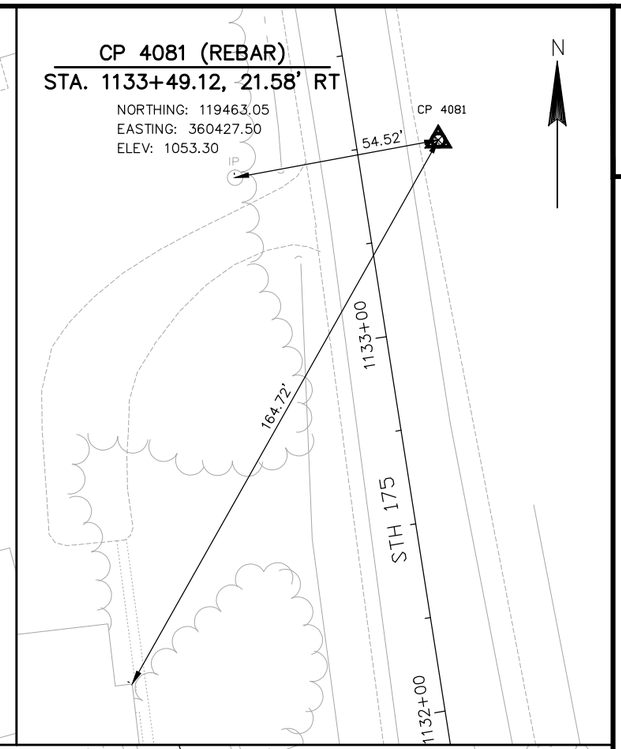
CP 9311 (CAPPED REBAR)
STA. 1114+37.90, 21.00' RT

NORTHING: 117616.33
EASTING: 360886.06
ELEV: 1033.50



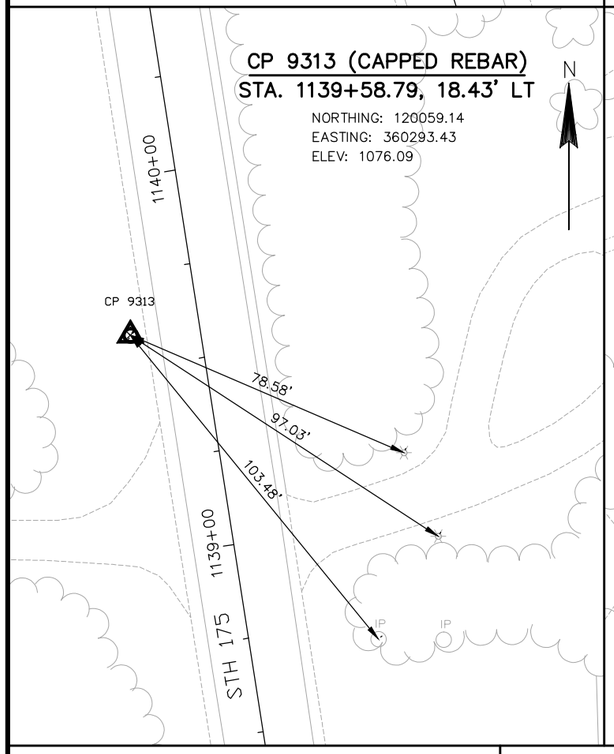
CP 4081 (REBAR)
STA. 1133+49.12, 21.58' RT

NORTHING: 119463.05
EASTING: 360427.50
ELEV: 1053.30



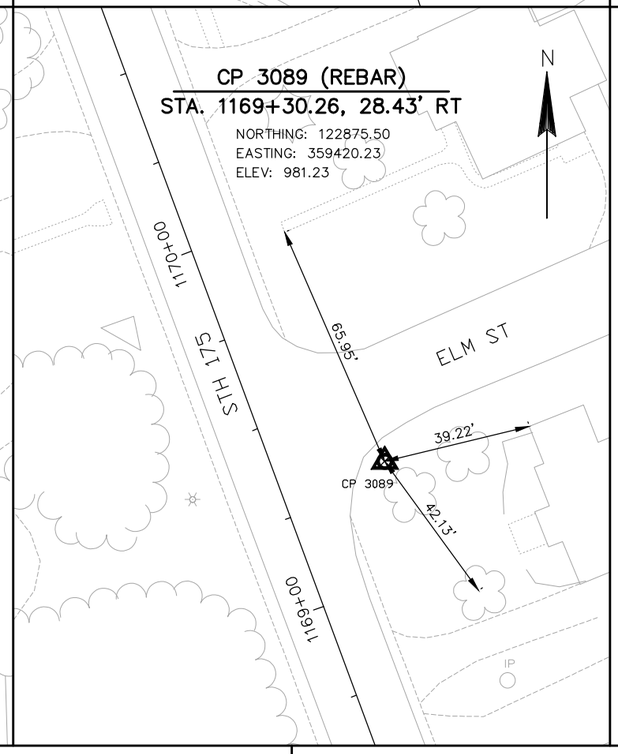
CP 9313 (CAPPED REBAR)
STA. 1139+58.79, 18.43' LT

NORTHING: 120059.14
EASTING: 360293.43
ELEV: 1076.09



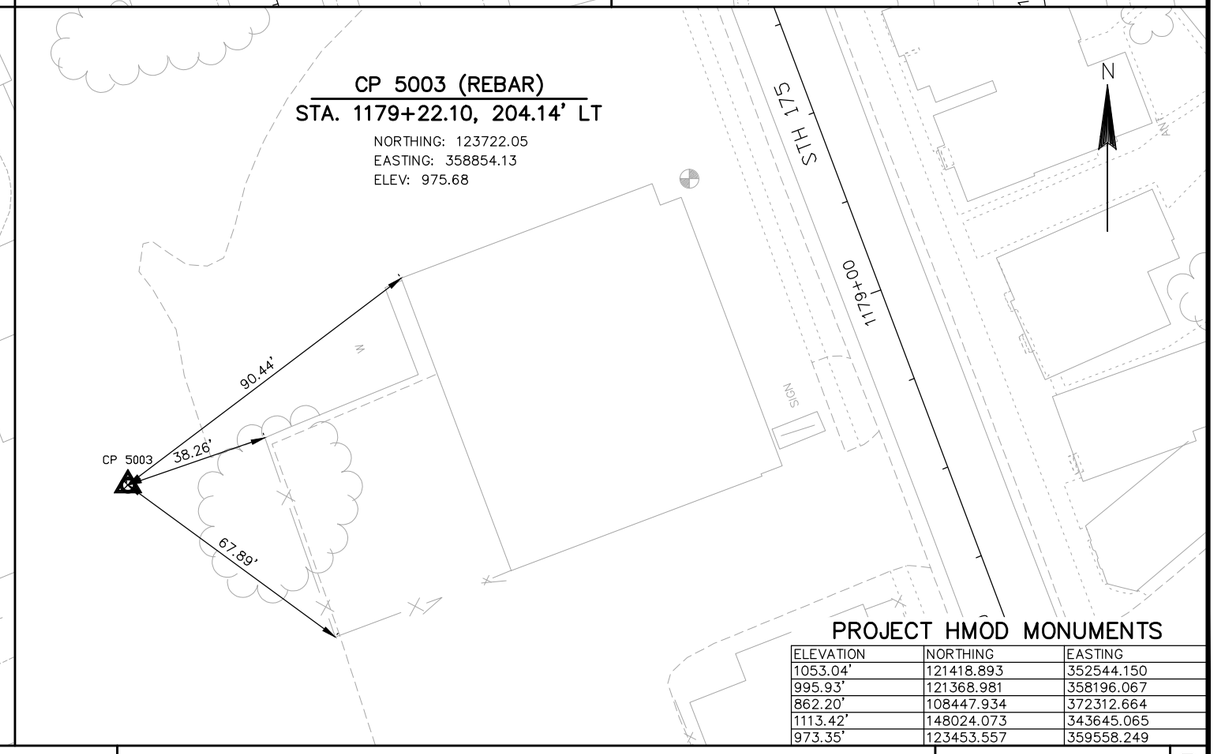
CP 3089 (REBAR)
STA. 1169+30.26, 28.43' RT

NORTHING: 122875.50
EASTING: 359420.23
ELEV: 981.23



CP 5003 (REBAR)
STA. 1179+22.10, 204.14' LT

NORTHING: 123722.05
EASTING: 358854.13
ELEV: 975.68



PROJECT HMOD MONUMENTS

ELEVATION	NORTHING	EASTING
1053.04'	121418.893	352544.150
995.93'	121368.981	358196.067
862.20'	108447.934	372312.664
1113.42'	148024.073	343645.065
973.35'	123453.557	359558.249

DATE 22SEP15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	3360-09-70 QUANTITY
0010	201.0105	Clearing	STA	62.000	62.000
0020	201.0120	Clearing	ID	361.000	361.000
0030	201.0205	Grubbing	STA	62.000	62.000
0040	201.0220	Grubbing	ID	361.000	361.000
0050	203.0100	Removing Small Pipe Culverts	EACH	27.000	27.000
0060	204.0100	Removing Pavement	SY	17,536.000	17,536.000
0070	204.0110	Removing Asphaltic Surface	SY	7,019.000	7,019.000
0080	204.0115	Removing Asphaltic Surface Butt Joints	SY	270.000	270.000
0090	204.0125	Removing Asphaltic Surface Milling	TON	845.000	845.000
0100	204.0130	Removing Curb	LF	146.000	146.000
0110	204.0150	Removing Curb & Gutter	LF	1,518.000	1,518.000
0120	204.0155	Removing Concrete Sidewalk	SY	1,048.000	1,048.000
0130	204.0165	Removing Guardrail	LF	95.000	95.000
0140	204.0170	Removing Fence	LF	123.000	123.000
0150	204.0180	Removing Delineators and Markers	EACH	4.000	4.000
0160	204.0185	Removing Masonry	CY	15.000	15.000
0170	204.0195	Removing Concrete Bases	EACH	1.000	1.000
0180	204.0220	Removing Inlets	EACH	8.000	8.000
0190	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	66.000	66.000
0200	204.0245	Removing Storm Sewer (size) 02. 18-Inch	LF	19.000	19.000
0210	204.0245	Removing Storm Sewer (size) 03. 24-Inch	LF	329.000	329.000
0220	204.0245	Removing Storm Sewer (size) 04. 30-Inch	LF	112.000	112.000
0230	204.0245	Removing Storm Sewer (size) 05. 32-Inch	LF	97.000	97.000
0240	204.0265	Abandoning Wells	EACH	1.000	1.000
0250	204.0280	Sealing Pipes	EACH	1.000	1.000
0260	204.9090.S	Removing (item description) 01. Timber Wall	LF	65.000	65.000
0270	205.0100	Excavation Common	CY	92,780.000	92,780.000
0280	205.0300	Excavation Stone Piles and Stone Fences	CY	299.000	299.000
0290	205.0400	Excavation Marsh	CY	2,257.000	2,257.000
0300	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	2,334.000	2,334.000
0310	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	9.000	9.000
0320	213.0100	Finishing Roadway (project) 01. 3360-09-70	EACH	1.000	1.000
0330	305.0110	Base Aggregate Dense 3/4-Inch	TON	154.000	154.000
0340	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	56,586.000	56,586.000
0350	311.0110	Breaker Run	TON	12,500.000	12,500.000
0360	405.0100	Coloring Concrete Red	CY	134.700	134.700
0370	416.0170	Concrete Driveway 7-Inch	SY	1,758.000	1,758.000
0380	416.0508	Concrete Roundabout Truck Apron 8-Inch	SY	213.000	213.000
0390	440.4410.S	Incentive IRI Ride	DOL	6,680.000	6,680.000
0400	455.0105	Asphaltic Material PG58-28	TON	1,254.000	1,254.000
0410	455.0605	Tack Coat	GAL	3,072.000	3,072.000
0420	460.1101	HMA Pavement Type E-1	TON	19,054.000	19,054.000
0430	460.2000	Incentive Density HMA Pavement	DOL	12,200.000	12,200.000
0440	460.4000	HMA Cold Weather Paving	TON	4,764.000	4,764.000
0450	465.0105	Asphaltic Surface	TON	1,844.000	1,844.000
0460	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	484.000	484.000
0470	465.0125	Asphaltic Surface Temporary	TON	50.000	50.000
0480	465.0315	Asphaltic Flumes	SY	43.000	43.000
0490	520.8000	Concrete Collars for Pipe	EACH	1.000	1.000
0500	521.0115	Culvert Pipe Corrugated Steel 15-Inch	LF	86.000	86.000

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DATE 22SEP15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	3360-09-70 QUANTITY
0510	521.0118	Culvert Pipe Corrugated Steel 18-Inch	LF	144.000	144.000
0520	521.0124	Culvert Pipe Corrugated Steel 24-Inch	LF	182.000	182.000
0530	521.0136	Culvert Pipe Corrugated Steel 36-Inch	LF	30.000	30.000
0540	521.1015	Apron Endwalls for Culvert Pipe Steel 15-Inch	EACH	6.000	6.000
0550	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	4.000	4.000
0560	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	6.000	6.000
0570	521.1036	Apron Endwalls for Culvert Pipe Steel 36-Inch	EACH	2.000	2.000
0580	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	1.000	1.000
0590	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	5.000	5.000
0600	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	3.000	3.000
0610	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	1.000	1.000
0620	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	1.000	1.000
0630	522.1048	Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	EACH	1.000	1.000
0640	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	154.000	154.000
0650	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	1,254.000	1,254.000
0660	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	11,470.000	11,470.000
0670	601.0557	Concrete Curb & Gutter 6-Inch Sloped	LF	13,020.000	13,020.000
0680	601.0582	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type T	LF	229.000	229.000
0690	601.0600	Concrete Curb Pedestrian	LF	175.000	175.000
0700	602.0410	Concrete Sidewalk 5-Inch	SF	34,414.000	34,414.000
0710	602.0420	Concrete Sidewalk 7-Inch	SF	497.000	497.000
0720	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	560.000	560.000
0730	602.1500	Concrete Steps	SF	22.000	22.000
0740	606.0200	Riprap Medium	CY	561.000	561.000
0750	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	2,546.000	2,546.000
0760	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	1,786.000	1,786.000
0770	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	5,337.000	5,337.000
0780	608.0327	Storm Sewer Pipe Reinforced Concrete Class III 27-Inch	LF	768.000	768.000
0790	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	486.000	486.000
0800	608.0342	Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	LF	880.000	880.000
0810	608.0348	Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	LF	266.000	266.000
0820	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	434.000	434.000
0830	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	542.000	542.000
0840	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	822.000	822.000

3

DATE 22SEP15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	3360-09-70 QUANTITY
0850	608.0427	Storm Sewer Pipe Reinforced Concrete Class IV 27-Inch	LF	328.000	328.000
0860	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	569.000	569.000
0870	608.0436	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	LF	83.000	83.000
0880	608.0515	Storm Sewer Pipe Reinforced Concrete Class V 15-Inch	LF	150.000	150.000
0890	608.0524	Storm Sewer Pipe Reinforced Concrete Class V 24-Inch	LF	608.000	608.000
0900	608.0527	Storm Sewer Pipe Reinforced Concrete Class V 27-Inch	LF	180.000	180.000
0910	610.0424	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF	157.000	157.000
0920	610.0429	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	LF	568.000	568.000
0930	611.0530	Manhole Covers Type J	EACH	65.000	65.000
0940	611.0545	Manhole Covers Type L	EACH	3.000	3.000
0950	611.0624	Inlet Covers Type H	EACH	95.000	95.000
0960	611.0627	Inlet Covers Type HM	EACH	67.000	67.000
0970	611.0642	Inlet Covers Type MS	EACH	17.000	17.000
0980	611.0652	Inlet Covers Type T	EACH	2.000	2.000
0990	611.0666	Inlet Covers Type Z	EACH	3.000	3.000
1000	611.2004	Manholes 4-FT Diameter	EACH	2.000	2.000
1010	611.2005	Manholes 5-FT Diameter	EACH	2.000	2.000
1020	611.2006	Manholes 6-FT Diameter	EACH	66.000	66.000
1030	611.2007	Manholes 7-FT Diameter	EACH	2.000	2.000
1040	611.2008	Manholes 8-FT Diameter	EACH	1.000	1.000
1050	611.3003	Inlets 3-FT Diameter	EACH	2.000	2.000
1060	611.3004	Inlets 4-FT Diameter	EACH	64.000	64.000
1070	611.3230	Inlets 2x3-FT	EACH	96.000	96.000
1080	611.3901	Inlets Median 1 Grate	EACH	5.000	5.000
1090	611.3902	Inlets Median 2 Grate	EACH	5.000	5.000
1100	611.8120.S	Cover Plates Temporary	EACH	5.000	5.000
1110	611.9800.S	Pipe Grates	EACH	5.000	5.000
1120	612.0106	Pipe Underdrain 6-Inch	LF	200.000	200.000
1130	612.0208	Pipe Underdrain Unperforated 8-Inch	LF	10.000	10.000
1140	612.0210	Pipe Underdrain Unperforated 10-Inch	LF	5.000	5.000
1150	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	876.000	876.000
1160	618.0100	Maintenance And Repair of Haul Roads (project) 01. 3360-09-70	EACH	1.000	1.000
1170	619.1000	Mobilization	EACH	1.000	1.000
1180	620.0300	Concrete Median Sloped Nose	SF	290.000	290.000
1190	621.0100	Landmark Reference Monuments	EACH	5.000	5.000
1200	623.0200	Dust Control Surface Treatment	SY	205,456.000	205,456.000
1210	624.0100	Water	MGAL	250.000	250.000
1220	625.0100	Topsoil	SY	5,000.000	5,000.000
1230	625.0500	Salvaged Topsoil	SY	56,165.000	56,165.000
1240	627.0200	Mulching	SY	38,000.000	38,000.000
1250	628.1504	Silt Fence	LF	16,160.000	16,160.000
1260	628.1520	Silt Fence Maintenance	LF	16,160.000	16,160.000
1270	628.1905	Mobilizations Erosion Control	EACH	10.000	10.000
1280	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000

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DATE 22SEP15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	3360-09-70 QUANTITY
1290	628.2008	Erosion Mat Urban Class I Type B	SY	780.000	780.000
1300	628.7005	Inlet Protection Type A	EACH	179.000	179.000
1310	628.7010	Inlet Protection Type B	EACH	12.000	12.000
1320	628.7015	Inlet Protection Type C	EACH	167.000	167.000
1330	628.7504	Temporary Ditch Checks	LF	180.000	180.000
1340	628.7555	Culvert Pipe Checks	EACH	36.000	36.000
1350	628.7560	Tracking Pads	EACH	1.000	1.000
1360	629.0210	Fertilizer Type B	CWT	56.000	56.000
1370	630.0130	Seeding Mixture No. 30	LB	700.000	700.000
1380	630.0175	Seeding Mixture No. 75	LB	35.000	35.000
1390	631.0300	Sod Water	MGAL	790.000	790.000
1400	631.1000	Sod Lawn	SY	35,175.000	35,175.000
1410	632.0101	Trees (species) (size) (root) 01. Celebration Maple, B&B, 2 1/2-Inch Cal	EACH	8.000	8.000
1420	632.0101	Trees (species) (size) (root) 02. Sienna Maple, B&B, 2 1/2-Inch Cal	EACH	10.000	10.000
1430	632.0101	Trees (species) (size) (root) 03. Golden Glory Corniancherry Dogwood, B&B, 5-Foot Multi-Stem	EACH	2.000	2.000
1440	632.0101	Trees (species) (size) (root) 04. Canaet Juniper, B&B, 5-Foot Ht	EACH	11.000	11.000
1450	632.0101	Trees (species) (size) (root) 05. Glenlevin Linden, B&B, 2-Inch Cal	EACH	7.000	7.000
1460	632.0101	Trees (species) (size) (root) 06. Accolade Elm, B&B, 2 1/2-Inch Cal	EACH	7.000	7.000
1470	632.0101	Trees (species) (size) (root) 07. Frontier Elm, B&B, 1 3/4-Inch Cal	EACH	3.000	3.000
1480	632.0201	Shrubs (species) (size) (root) 01. Isanti Dogwood, #7 Container Or B&B 30-Inch Minimum	EACH	3.000	3.000
1490	632.0201	Shrubs (species) (size) (root) 02. Dwarf Bush-Honeysuckle, #2 Cg, 12-Inch Minimum	EACH	32.000	32.000
1500	632.0201	Shrubs (species) (size) (root) 03. Nicks Compact Juniper, #10 Or B&B, 24-Inch Minimum	EACH	20.000	20.000
1510	632.0201	Shrubs (species) (size) (root) 04. Diablo Niebark, #5 Container 24-Inch Minimum	EACH	17.000	17.000
1520	632.0201	Shrubs (species) (size) (root) 05. Tiger Eyes Cutleaf Staghorn Sumac, #5 Cg, 24-Inch	EACH	22.000	22.000
1530	632.0301	Vines (species) (size) (root) 01. Purple Coneflower, #1 Cg	EACH	34.000	34.000
1540	632.0301	Vines (species) (size) (root) 02. Prairie Dropseed, #1 Cg	EACH	52.000	52.000
1550	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	24.000	24.000
1560	633.5200	Markers Culvert End	EACH	9.000	9.000
1570	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	91.000	91.000
1580	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	69.000	69.000
1590	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	10.000	10.000
1600	634.0622	Posts Wood 4x6-Inch X 22-FT	EACH	12.000	12.000
1610	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	16.000	16.000
1620	634.0816	Posts Tubular Steel 2x2-Inch X 16-FT	EACH	4.000	4.000
1630	637.2210	Signs Type II Reflective H	SF	1,316.900	1,316.900
1640	637.2230	Signs Type II Reflective F	SF	392.030	392.030

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DATE 22SEP15 — E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	3360-09-70 QUANTITY
1650	638.2102	Moving Signs Type II	EACH	4.000	4.000
1660	638.2602	Removing Signs Type II	EACH	103.000	103.000
1670	638.3000	Removing Small Sign Supports	EACH	114.000	114.000
1680	638.4000	Moving Small Sign Supports	EACH	3.000	3.000
1690	640.1303.S	Pond Liner Clay	CY	490.000	490.000
1700	642.5401	Field Office Type D	EACH	1.000	1.000
1710	643.0100	Traffic Control (project) 01. 3360-09-70	EACH	1.000	1.000
1720	643.0300	Traffic Control Drums	DAY	3,480.000	3,480.000
1730	643.0420	Traffic Control Barricades Type III	DAY	4,548.000	4,548.000
1740	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	163.000	163.000
1750	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	163.000	163.000
1760	643.0705	Traffic Control Warning Lights Type A	DAY	6,854.000	6,854.000
1770	643.0715	Traffic Control Warning Lights Type C	DAY	552.000	552.000
1780	643.0900	Traffic Control Signs	DAY	3,707.000	3,707.000
1790	643.0910	Traffic Control Covering Signs Type I	EACH	8.000	8.000
1800	643.0920	Traffic Control Covering Signs Type II	EACH	24.000	24.000
1810	643.1050	Traffic Control Signs PCMS	DAY	360.000	360.000
1820	643.2000	Traffic Control Detour (project) 01. 3360-09-70	EACH	1.000	1.000
1830	643.3000	Traffic Control Detour Signs	DAY	31,945.000	31,945.000
1840	644.1410.S	Temporary Pedestrian Surface Asphalt	SF	500.000	500.000
1850	644.1601.S	Temporary Curb Ramp	EACH	10.000	10.000
1860	644.1616.S	Temporary Pedestrian Safety Fence	LF	500.000	500.000
1870	645.0120	Geotextile Fabric Type HR	SY	708.000	708.000
1880	646.0600	Removing Pavement Markings	LF	3,075.000	3,075.000
1890	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	45,032.000	45,032.000
1900	647.0156	Pavement Marking Arrows Epoxy Type 1	EACH	6.000	6.000
1910	647.0456	Pavement Marking Curb Epoxy	LF	90.000	90.000
1920	647.0706	Pavement Marking Diagonal Epoxy 6-Inch	LF	152.000	152.000
1930	647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	1,170.000	1,170.000
1940	648.0100	Locating No-Passing Zones	MI	2.060	2.060
1950	649.0100	Temporary Pavement Marking 4-Inch	LF	17,400.000	17,400.000
1960	649.0300	Temporary Pavement Marking Reflective Tape 4-Inch	LF	1,000.000	1,000.000
1970	650.4000	Construction Staking Storm Sewer	EACH	245.000	245.000
1980	650.4500	Construction Staking Subgrade	LF	12,861.000	12,861.000
1990	650.5000	Construction Staking Base	LF	12,861.000	12,861.000
2000	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	24,873.000	24,873.000
2010	650.6000	Construction Staking Pipe Culverts	EACH	9.000	9.000
2020	650.6500	Construction Staking Structure Layout (structure) 01. R-66-32	LS	1.000	1.000
2030	650.6500	Construction Staking Structure Layout (structure) 01. R-66-33	LS	1.000	1.000
2040	650.8000	Construction Staking Resurfacing Reference	LF	5,064.000	5,064.000
2050	650.8500	Construction Staking Electrical Installations (project) 01. 3360-09-70	LS	1.000	1.000
2060	650.9910	Construction Staking Supplemental Control (project) 01. 3360-09-70	LS	1.000	1.000
2070	650.9920	Construction Staking Slope Stakes	LF	12,861.000	12,861.000

DATE 22SEP15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	3360-09-70 QUANTITY
2080	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	3,250.000	3,250.000
2090	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	295.000	295.000
2100	653.0140	Pull Boxes Steel 24x42-Inch	EACH	7.000	7.000
2110	654.0105	Concrete Bases Type 5	EACH	24.000	24.000
2120	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000
2130	655.0610	Electrical Wire Lighting 12 AWG	LF	3,132.000	3,132.000
2140	655.0615	Electrical Wire Lighting 10 AWG	LF	470.000	470.000
2150	655.0625	Electrical Wire Lighting 6 AWG	LF	17,020.000	17,020.000
2160	655.0640	Electrical Wire Lighting 1 AWG	LF	18.000	18.000
2170	656.0400	Electrical Service Main Lugs Only Meter Pedestal (location) 01. SE Quadrant STH 175 and STH 167 Roundabout	LS	1.000	1.000
2180	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	24.000	24.000
2190	657.0322	Poles Type 5-Aluminum	EACH	24.000	24.000
2200	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	12.000	12.000
2210	657.0715	Luminaire Arms Truss Type 4 1/2-Inch Clamp 15-FT	EACH	12.000	12.000
2220	659.0802	Plaques Sequence Identification	EACH	5.000	5.000
2230	659.1125	Luminaires Utility LED C	EACH	24.000	24.000
2240	659.2230	Lighting Control Cabinets 240/480 30-Inch	EACH	1.000	1.000
2250	690.0150	Sawing Asphalt	LF	8,560.000	8,560.000
2260	690.0250	Sawing Concrete	LF	440.000	440.000
2270	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,300.000	2,300.000
2280	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	4,200.000	4,200.000
2290	SPV.0005	Special 01. Rootstock Protection **P**	ACRE	0.700	0.700
2300	SPV.0005	Special 02. Seeding **P**	ACRE	0.730	0.730
2310	SPV.0005	Special 03. Seed Bed Preparation **P**	ACRE	1.030	1.030
2320	SPV.0035	Special 01. Landscape Berm	CY	309.000	309.000
2330	SPV.0060	Special 01. Root Stock	EACH	390.000	390.000
2340	SPV.0060	Special 02. Pavement Marking Grooved Preformed Thermoplastic Railroad Crossings	EACH	4.000	4.000
2350	SPV.0060	Special 03. Pavement Marking Grooved Preformed Thermoplastic Arrows Type 2	EACH	20.000	20.000
2360	SPV.0060	Special 04. Pavement Marking Grooved Preformed Thermoplastic Arrows Type 3	EACH	4.000	4.000
2370	SPV.0060	Special 05. Pavement Marking Grooved Preformed Thermoplastic Arrows Type 3R	EACH	1.000	1.000
2380	SPV.0060	Special 06. Pavement Marking Grooved Preformed Thermoplastic Words	EACH	15.000	15.000
2390	SPV.0060	Special 09. AWSMS Retention Pond Outfall Structure	EACH	1.000	1.000
2400	SPV.0085	Special 01. Seed Mix Special	LB	14.000	14.000
2410	SPV.0090	Special 01. Pavement Marking Grooved Preformed Thermoplastic Stop Line 18-Inch	LF	274.000	274.000
2420	SPV.0090	Special 02. Pavement Marking Grooved Preformed Plastic Tape 4-Inch	LF	10,296.000	10,296.000
2430	SPV.0090	Special 03. Pavement Marking Grooved Preformed Thermoplastic Crosswalk 6-Inch	LF	272.000	272.000

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DATE 22SEP15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	3360-09-70 QUANTITY
2440	SPV.0090	Special 04. Pavement Marking Grooved Preformed Plastic Tape 8-Inch	LF	3,905.000	3,905.000
2450	SPV.0090	Special 05. Bore And Jack Storm Sewer Pipe Reinforced Concrete Pipe Class V 24-Inch	LF	235.000	235.000
2460	SPV.0090	Special 06. Fence Chain Link Vinyl Coated 4-Ft	LF	836.000	836.000
2470	SPV.0090	Special 07. Pavement Marking Grooved Preformed Thermoplastic Crosswalk 24-Inch	LF	305.000	305.000
2480	SPV.0090	Special 08. Pavement Marking Grooved Preformed Thermoplastic Yield Line 18-Inch	LF	48.000	48.000
2490	SPV.0105	Special 01. Removing and Reinstalling Overhead Sign Support (S-66-235)	LS	1.000	1.000
2500	SPV.0105	Special 02. Abandon Water Vault (Sta. 1154+25 26' Rt)	LS	1.000	1.000
2510	SPV.0105	Special 03. Abandon Water Vault (Sta. 1182+34, 23' Rt)	LS	1.000	1.000
2520	SPV.0105	Special 04. Construction Staking AWSMS Retention Pond Layout	LS	1.000	1.000
2530	SPV.0105	Special 05. Lighting System Integrator	LS	1.000	1.000
2540	SPV.0105	Special 06. Lighting System Survey	LS	1.000	1.000
2550	SPV.0105	Special 07. Dewatering For Detention Basin Construction	LS	1.000	1.000
2560	SPV.0165	Special 03. Modular Wall Block Gravity LRFD **P**	SF	169.000	169.000
2570	SPV.0165	Special 04. Wall Modular Block Mechanically Stabilized Earth LRFD **P**	SF	7,460.000	7,460.000
2580	SPV.0180	Special 01. Mulching Special	SY	5,500.000	5,500.000
2590	SPV.0195	Special 01. Outcrop Stone Boulders	TON	105.000	105.000

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CLEARING AND GRUBBING — 201.0105 — 201.0205

STATION		STATION	LOCATION	CLEARING (STA)	GRUBBING (STA)
1088+00	-	1093+00	MAINLINE, LT	5	5
1107+00	-	1110+00	MAINLINE, RT	3	3
1115+00	-	1116+00	MAINLINE, LT	1	1
1127+00	-	1129+00	MAINLINE, LT	2	2
1130+00	-	1135+00	MAINLINE, LT	5	5
1135+00	-	1150+00	MAINLINE, LT & RT	15	15
1153+00		1159+00	MAINLINE, LT & RT	6	6
1160+00	-	1164+00	MAINLINE, RT	4	4
1167+00	-	1172+00	MAINLINE, LT	5	5
1173+00	-	1174+00	MAINLINE, LT	1	1
1175+00	-	1177+00	MAINLINE, LT & RT	2	2
1186+00	-	1188+00	MAINLINE, RT	2	2
1192+00	-	1195+00	MAINLINE, RT	3	3
681+00	-	684+00	STH 167, RT	3	3
691+00	-	693+00	STH 167, LT & RT	2	2
695+00	-	698+00	STH 167, RT	3	3
			TOTALS	62	62

204.0100
REMOVING PAVEMENT

STATION	LOCATION	(SY)
1086+00 - 1121+00	MAINLINE	6222
1124+00	P.E., RT	36
1132+84 - 1194+05	MAINLINE	10882
1139+00	P.E., RT	65
1159+28	P.E., RT	38
1161+10	P.E., RT	20
1163+21	P.E., RT	44
1170+50	P.E., LT	63
1172+14	P.E., RT	8
1173+78	P.E., LT	15
1175+31	P.E., LT	15
1176+09	P.E., RT	3
1176+72	P.E., LT	22
1180+88	C.E., RT	24
1182+68	P.E., LT	17
695+05"C"	P.E., RT, STH 167	63
	TOTAL	17,536

204.0115
REMOVING ASPHALTIC SURFACE BUTT JOINTS

STATION	- STATION	LOCATION	(SY)
1127+12		MAINLINE, LT	61
1126+91		MAINLINE, RT	209
		TOTAL	270

204.0130
REMOVING CURB

STATION	- STATION	LOCATION	(LF)
1171+95	- 1172+02	MAINLINE, RT	6
1172+19	- 1173+47	MAINLINE, RT	140
		TOTAL	146

CLEARING AND GRUBBING — 201.0120 — 201.0220

STATION	LOCATION	CLEARING (ID)	GRUBBING (ID)
1095+98	MAINLINE, RT	24	24
1099+17	MAINLINE, RT	13	13
1111+61	MAINLINE, 42' LT	12	12
1111+77	MAINLINE, 36' LT	10	10
1112+08	MAINLINE, 40' LT	6	6
1112+17	MAINLINE, 35' LT	12	12
1112+46	MAINLINE, 38' LT	10	10
1116+54	MAINLINE, 47' LT	10	10
1116+69	MAINLINE, 47' LT	10	10
1116+86	MAINLINE, 49' LT	10	10
1117+00	MAINLINE, 48' LT	10	10
1117+11	MAINLINE, 50' LT	10	10
1117+60	MAINLINE, 31' LT	12	12
1117+72	MAINLINE, 43' LT	12	12
1117+83	MAINLINE, 44' LT	6	6
1117+94	MAINLINE, 43' LT	6	6
1118+08	MAINLINE, 44' LT	6	6
1118+18	MAINLINE, 43' RT	24	24
1118+19	MAINLINE, 44' LT	6	6
1118+28	MAINLINE, 44' LT	6	6
1118+38	MAINLINE, 44' LT	10	10
1120+07	MAINLINE, 42' RT	24	24
1121+30	MAINLINE, 40' RT	24	24
1181+60	MAINLINE, 22' LT	20	20
1184+25	MAINLINE, LT	30	30
102+83	FREISTADT RD, RT	14	14
684+90	STH 167, RT	12	12
685+18	STH 167, RT	12	12
	TOTALS	361	361

204.0125
REMOVING ASPHALTIC SURFACE MILLING

STATION	- STATION	LOCATION	(TON)
1121+00.00	- 1132+84.41	MAINLINE	807
700+19.60	- 701+00.00	STH 167	38
		TOTAL	845

204.0150
REMOVING CURB AND GUTTER

STATION	- STATION	LOCATION	(LF)
---	- 1088+18	BEECHWOOD IND. CT	4
---	- 1093+24	C.E., RT	157
---	- 1100+41	C.E., RT	25
---	- 1103+94	C.E., RT	5
---	- 1108+50	FAIRWAY VIEW CT	8
1123+38	- 1126+61	MAINLINE, RT	365
1151+42	- 1151+71	MAINLINE, RT	60
1151+55	- 1151+95	ISLAND, RT	92
1151+78	- 1152+24	MAINLINE, LT	55
1152+60	- 1153+00	ISLAND, LT	98
1152+85	- 1153+25	MAINLINE, LT	70
---	- ---	RICHFIELD SERVICE, LT	15
---	- 1172+14	P.E., RT	10
1173+75	- 1173+95	MAINLINE, RT	18
682+25	- 682+80	STH 167, RT	81
683+03	- 687+35	STH 167, RT	455
		TOTAL	1,518

203.0100
REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	DESCRIPTION	EACH
1099+05	C.E., RT	18" X 61' CMCP	1
1100+41	C.E., RT	18" X 40' CMCP	1
1103+94	C.E., RT	18" X 34' CMCP	1
1108+38	P.E., RT	15" X 30' CMCP	1
1108+50	FAIRWAY VIEW CT, LT	18" X 60' CMCP	1
1109+90	P.E., RT	12" X 21' CMCP	1
1113+85	P.E., RT	12" X 35' CMCP	1
1119+70	P.E., RT	24" X 26' CMCP	1
1120+19	P.E., RT	24" X 26' CMCP	1
1133+35	P.E., LT	12" X 22' CMCP	1
1144+86	P.E., RT	12" X 32' CMCP	1
1147+42	P.E., RT	15" X 28' CMCP	1
1148+00	P.E., RT	15" X29' CMCP	1
1149+33	C.E., RT	18" X 64' CMCP	1
1187+44	P.E., RT	24" X 26' CMCP	1
1188+58	C.E., RT	30" X 88' CMCP	1
1190+96	C.E., RT	18" X 48' CMCP	1
1193+00	P.E., RT	18" X 22' CMCP	1
101+32	C.E., LT, FREISTADT	18" X 34' CMCP	1
103+00	F.E., LT, FREISTADT	15" X 30' CMCP	1
680+71	P.E., RT, STH 167	18" X 32' CMCP	1
691+28"C"	C.E., RT, STH 167	24" X 74' CMCP	1
692+19"D"	P.E., LT, STH 167	15" X 30' CMCP	1
693+73"D"	C.E., LT, STH 167	15" X 28' CMCP	1
694+42"C"	P.E., RT, STH 167	24" X 24' RCCP	1
695+05"C"	P.E., RT, STH 167	24" X 25' CMCP	1
698+72"C"	C.E., RT, STH 167	24" X 132' CMCP	1
		TOTAL	27

204.0155
REMOVING CONCRETE SIDEWALK

STATION	- STATION	LOCATION	(SY)
---	- 1156+75	MAINLINE, RT	5
---	- 1165+18	MAINLINE, RT	2
1166+64	- 1167+06	MAINLINE, RT	16
1167+47	- 1168+88	MAINLINE, RT	64
---	- 1169+98	MAINLINE, RT	4
1170+47	- 1172+03	MAINLINE, RT	73
---	- 1170+17	MAINLINE, LT	6
1172+24	- 1173+32	MAINLINE, RT	86
---	- 1173+22	MAINLINE, LT	1
1173+83	- 1174+65	MAINLINE, LT	36
1174+65	- 1175+28	MAINLINE, LT	30
1175+28	- 1175+91	MAINLINE, LT	42
1175+04	- 1177+55	MAINLINE, RT	116
1175+91	- 1178+30	MAINLINE, LT	126
1177+93	- 1181+30	MAINLINE, RT	212
1178+30	- 1182+68	MAINLINE, LT	206
---	- 1183+79	MAINLINE, LT	2
---	- 1184+32	MAINLINE, LT	5
---	- 1184+56	MAINLINE, LT	16
		TOTAL	1,048

204.0110
REMOVING ASPHALTIC SURFACE

STATION	- STATION	LOCATION	(SY)
1089+77		C.E., LT	189
1093+21		C.E., LT	121
1093+24		C.E.,RT	108
1093+94		C.E., LT	116
1099+05		C.E., RT	340
1100+41		C.E., LT	152
1100+44		C.E., RT	143
1103+94		C.E., LT	161
1103+94		C.E., RT	120
1105+90		C.E., LT	82
1108+38		P.E., RT	116
1109+90		P.E., RT	102
1113+85		P.E., RT	223
1119+70		P.E., RT	48
1120+19		P.E., RT	48
1124+00		P.E., RT	43
1130+00		P.E., LT	14
1130+43		P.E., LT	52
1147+42		P.E., RT	27
1149+33		C.E., RT	282
1156+24		P.E., RT	94
1159+28		P.E., RT	20
1159+41		C.E., LT	127
1161+10		P.E., RT	20
1161+77		P.E., RT	53
1163+21		P.E., RT	35
1164+29		C.E., RT	99
1165+18		C.E., LT	144
1166+41		P.E., RT	81
1168+50		C.E., RT	9
1168+77		P.E., RT	40
1170+50		P.E., LT	15
1172+14		C.E., RT	33
1173+78		P.E., LT	12
1175+18		C.E., RT	64
1176+02		P.E., LT	23
1178+46		C.E., LT	39
1180+24		C.E., LT	141
1181+30	- 1183+55	COMMERCIAL LOT, RT	559
1184+14		P.E., LT	33
1184+75		P.E., LT	55
1184+84	- 1185+85	MAINLINE, LT	106
1186+06		C.E., LT	107
1187+44		P.E., RT	54
1188+58		C.E., RT	275
1190+96		C.E., RT	136
1193+83		C.E., LT	62
101+30"HU"		C.E., LT	94
102+31"HU"		C.E., RT	118
678+50		P.E., RT, STH 167	52
680+71		P.E., RT, STH 167	84
684+04"G"		P.E., RT, STH 167	9
684+70"G"		C.E., RT, STH 167	99
685+42"G"		C.E., RT, STH 167	141
691+28"C"		C.E., RT, STH 167	261
692+19"D"		P.E.,LT, STH 167	66
693+73"D"		C.E.,LT, STH 167	110
698+72"C"		C.E., RT, STH 167	322
685+00"G"	- 687+55"G"	STAGE 2C, STH 167, LT	150
687+80	- 688+50	STAGE 2C, STH 167, LT	92
688+70	- 695+80	STAGE 2C, STH 167, LT	496
		TOTAL	7,019

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NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

204.0165
REMOVING GUARDRAIL

STATION	-	STATION	LOCATION	(L.F.)
1097+10	-	1097+35	MAINLINE, LT	27
1152+29	-	1152+73	MAINLINE, RT	53
---	-	1186+80	MAINLINE, LT	15
			TOTAL	95

204.0170
REMOVING FENCE

STATION	-	STATION	LOCATION	(L.F.)
1176+12	-	1176+42	MAINLINE, 24.5' LT	30
1177+82	-	1178+23	MAINLINE, 25.5' LT	41
1181+88	-	1182+58	MAINLINE, 25' LT	52
			TOTAL	123

204.0180
REMOVING DELINEATORS AND MARKERS

STATION	LOCATION	(EACH)
1194+10	MAINLINE, RT	1
685+88	STH 167, LT	1
686+50	STH 167, LT	1
686+80	STH 167, LT	1
	TOTAL	4

204.0185
REMOVING MASONRY

STATION	-	STATION	LOCATION	(CY)
1181+88	-	1182+27	MAINLINE, LT	2
---	-	1094+59.6	SIGN BASE, RT	6
---	-	---	UNDISTRIBUTED	7
			TOTAL	15

REMOVING STORM SEWER

STATION	-	STATION	LOCATION	204.0245.01 12-INCH (LF)	204.0245.02 18-INCH (LF)	204.0245.03 24-INCH (LF)	204.0245.04 30-INCH (LF)	204.0245.05 32-INCH (LF)
1130+56	-	1130+70	MAINLINE, LT	--	12	--	--	--
1151+44	-	1152+10	MAINLINE, LT	--	--	65	--	--
1152+10	-	1153+23	MAINLINE, LT	--	--	--	112	--
---	-	101+60"HU"	FRIESTADT, LT	--	7	--	--	--
682+46"G"	-	683+21"G"	STH 167, RT	--	--	72	--	--
683+21"G"	-	683+71"G"	STH 167, RT	--	--	52	--	--
683+71"G"	-	685+14"H"	STH 167, RT	--	--	140	--	--
685+14"H"	-	685+93"H"	STH 167, RT TO LT	--	--	--	--	97
686+50"H"			STH 167, RT TO LT	66	--	--	--	--
			TOTALS	66	19	329	112	97

204.0220
REMOVING INLETS

STATION	LOCATION	(EACH)
1130+55.5	MAINLINE, LT	1
1151+44	MAINLINE, LT	1
1152+10	MAINLINE, LT	1
101+53	FREISTADT, LT	1
683+20"G"	STH 167, RT	1
683+71"G"	STH 167, RT	1
685+14"H"	STH 167, RT	1
686+51"H"	STH 167, RT	1
	TOTAL	8

204.0195
REMOVING CONCRETE BASES

STATION	-	STATION	LOCATION	(EACH)
---	-	1196+70	MAINLINE, RT	1
			TOTAL	1

204.0265
ABANDONING WELLS

STATION	-	STATION	LOCATION	(EACH)
---	-	1181+52	MAINLINE, 21' LT	1
			TOTAL	1

204.0280
SEALING PIPES

STATION	LOCATION	(EACH)
101+60"HU"	FRIESTADT RD, LT	1
	TOTAL	1

204.9090.S
01.REMOVING TIMBER WALL

NOTE: 2-FT MAX WALL HEIGHT

STATION	-	STATION	LOCATION	LF
1175+38	-	1175+87	MAINLINE, 24.5' LT	37
1182+16	-	1182+58	MAINLINE, 25' LT	28
			TOTAL	65

305.0120
BASE AGGREGATE DENSE 1 1/4-INCH

STATION	-	STATION	LOCATION	TON
1086+00.00	-	1097+43.79	MAINLINE	4107
1097+43.79	-	1121+00.00	MAINLINE	8902
1121+00.00	-	1132+84.41	MAINLINE	1636
1132+84.41	-	1147+00.00	MAINLINE	4611
1147+00.00	-	1158+00.00	MAINLINE	6201
1158+00.00	-	1185+93.50	MAINLINE	8707
1186+42.10	-	1194+05.00	MAINLINE	2512
---	-	---	BEECHWOOD INDUST. CT	278
97+00"HU"	-	99+81"HU"	HUBERTUS RD	1237
100+18.9"HU"	-	103+55"HU"	FREISTADT RD	1313
---	-	---	FAIRWAY VIEW CT	290
678+00.00	-	687+52.00	HOLY HILL RD / STH 167	4353
688+72.00	-	701+00.00	HOLY HILL RD / STH 167	5487
---	-	---	RICHFIELD SERVICE	349
---	-	---	ELM STREET	221
---	-	---	DEPOT STREET	87
---	-	---	RAILROAD STREET	292
698+65.00			STH 167 LT, WCLF RD	282
1088+39.00	-	1097+15.00	SHARED-USE PATH	334
1097+90.00	-	1108+19.00	SHARED-USE PATH	358
1108+87.00	-	1126+91.00	SHARED-USE PATH	526
1127+33.00	-	1151+35.19	SHARED-USE PATH	866
1153+24.73	-	1169+37.90	SHARED-USE PATH	618
1126+31.65	-	1127+62.71	ML RT, SIDEWALK	18
1150+42.00	-	1151+58.00	ML RT, SIDEWALK	40
1151+35.19	-	1152+52.14	ML LT, SIDEWALK	43
1151+90.00	-	1153+20.00	ML RT, SIDEWALK	43
1152+82.37	-	1153+24.73	ML LT, SIDEWALK	37
1166+50.00	-	1169+32.00	ML RT, SIDEWALK	64
1169+37.90	-	1182+59.00	ML LT, SIDEWALK	256
1169+66.00	-	1173+43.00	ML RT, SIDEWALK	81
1173+82.00	-	1180+24.00	ML RT, SIDEWALK	165
1181+81.00	-	1188+15.00	ML RT, SIDEWALK	133
---	-	---	DRIVEWAYS	2139
			TOTAL	56,586

205.0300
EXCAVATION STONE PILES AND STONE FENCES

STATION	-	STATION	LOCATION	(CY)
---	-	101+00"HU"	FREISTADT, 33' RT	6
1149+60	-	1151+59	MAINLINE, 33' RT	81
1150+72	-	1151+47	MAINLINE, 31' LT	46
685+87	-	687+05	STH 167, 65' LT	100
688+59	-	689+62	STH 167, 38' RT	41
691+72	-	692+72	STH 167, 26' RT	22
694+13	-	694+31	STH 167, 25' RT	3
			TOTAL	299

205.0501.S
EXCAVATION, HAULING AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL

STATION	-	STATION	LOCATION	(TON)
1096+75	-	1097+75	MAINLINE, LT	2023
1072+50	-	1072+90	MAINLINE, RT	311
			TOTAL	2,334

305.0110
BASE AGGREGATE DENSE 3/4-INCH

STATION	-	STATION	LOCATION	(TON)
1086+00.00	-	1087+25.00	MAINLINE, LT	8
1086+00.00	-	1087+37.00	MAINLINE,RT	9
---	-	---	BEECHWOOD INDUSTRIAL CT	1
97+00"HU"	-	97+50"HU"	HUBERTUS RD, LT & RT	3
101+59.2	-	103+55"HU"	FREISTADT RD, LT	5
103+00"HU"	-	103+55"HU"	FREISTADT RD, RT	2
678+00.00	-	686+10.00	STH 167, LT	50
678+00.00	-	678+25.00	STH 167, LT	2
694+15.00	-	698+44.00	STH 167, LT	32
696+08.00	-	698+45.00	STH 167, RT	15
698+75	-	701+00.00	STH 167, LT	19
699+35	-	701+00.00	STH 167, RT	9
			TOTAL	154

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

FILE NAME: N:\PDS\Projects\33600900\DDE\Graphical Information\Plan Sheets\030302_mq.dwg PLOT DATE: Aug 19, 2015 PLOT BY: dota4p PLOT SCALE: ROTATION:

EARTHWORK SUMMARY					*	*	*	*	*	*	*		
Division	From/To Station	Location	Common Excavation (1)	(ITEM # 205.0100)	Salvaged/ Unusable Pavement Material (4)	Available Material (5)	Marsh Excavation (6)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate +/- (14)	Waste (15)	Borrow	Comment:
			Cut (2) (CY)	EBS Excavation (3) (CY)	(CY)	(CY)	(ITEM #205.0400) (CY)	(CY)	Factor 1.20 (CY)	(CY)	(CY)	(ITEM #208.0100) (CY)	
Stage 1	1153+75 to 1194+05	STH 175	11,865	3,987	2,944	8,921	0	6,393	7,671	1,250	5,237		
	1180+00, LT	Special Ditch, STH 175	47	0	0	47	0	0	0	47	47		
	0+00 to 7+70.76	AWSMS Retention Pond	32,384	0	0	32,384	2,257	0	0	32,384	34,641		
	1156+00 to 1176+00	Undistributed EBS, STH 175	0	885	0	0	0	0	0	0	885		
			44,296	4,872	2,944	41,352	2,257	6,393	7,671	33,681	40,810		
Stage 2	1142+00 to 1153+75	STH 175	9,456	0	764	8,692	0	4,965	5,956	2,736	2,736		
Stage 2A	678+00 to 700+19.6	STH 167	969	0	0	969	0	1,256	1,507	-538	-538		
Stage 2B	678+00 to 700+19.6	STH 167	2,823	0	0	2,823	0	1,030	1,236	1,587	1,587		
Stage 2C	678+00 to 700+19.6	STH 167	2,638	0	0	2,638	0	142	171	2,467	2,467		
			15,886	0	764	15,122	0	7,393	8,870	6,252	6,252		
Stage 3	1086+00 to 1142+00	STH 175	24,589	561	3,216	21,373	0	5,377	6,453	14,920	15,481		
	97+00 to 103+55	Hubertus/Freistadt	2,509	0	0	2,509	0	153	183	2,326	2,326		
	1087+50 to 1089+00	Undistributed EBS, STH 175	0	67	0	0	0	0	0	0	67		
			27,098	628	3,216	23,882	0	5,530	6,636	17,246	17,874		
Grand Total			87,280	5,500	6,924	80,356	2,257	19,316	23,177	57,179	64,936		
		Total Common Exc	92,780										

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) Salvaged/Unusable Pavement Material is included in Cut. This assumes the existing pavement is salvaged or wasted by the contractor. The existing pavement structure is not shown in the cross sections.
3) EBS Excavation to be backfilled with Breaker Run paid for as item number 311.0110 Breaker Run
4) Salvaged/Unusable Pavement Material.
5) Avalible Material = Cut - Salvaged/Unusable Pavement Material
6) Marsh Excavation. Item number 205.0400
13) Expanded Fill. Fill Factor = 1.20
14) Mass Ordinate = Avalible Material - Expanded Fill. Plus quantity indicates an excess of material. Minus indicates a shortage of material.
15) Waste = Mass Ordinate + EBS Excavation

* FOR INFORMATIONAL PURPOSES ONLY

311.0110
BREAKER RUN

STATION	-	STATION	LOCATION	(TON)
1087+50.00	-	1089+00.00	MAINLINE	1103
1156+00'E'	-	1176+00.00	MAINLINE	9602
---		---	UNDISTRIBUTED	1795
			TOTAL	12,500

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

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416.0170
CONCRETE DRIVEWAY

STATION	LOCATION	7-INCH (SY)	DRIVEWAY WIDTH (FT)
1089+77	C.E., LT	17	28
1093+21	C.E., LT	20	33
1093+24	C.E., RT	32	50
1093+94	C.E., LT	21	35
101+30"HU"	FREISTADT, C.E., LT	21	35
102+31"HU"	FREISTADT, C.E., RT	21	35
1099+05	C.E., RT	21	35
1100+41	C.E., LT	20	33
1100+41	C.E., RT	21	35
1103+94	C.E., LT	19	31
1103+94	C.E., RT	18	29
1105+90	C.E., LT	24	40
1108+38	P.E., RT	12	18
1109+90	P.E., RT	11	17
1113+00	P.E., LT	9	14
1113+85	P.E., RT	21	34
1119+70	P.E., RT	8	12
1120+19	P.E., RT	10	15
1120+34	F.E., LT	9	13
1124+00	P.E., RT	33	17
1130+00	P.E., LT	11	20
1130+43	P.E., LT	10	15
1133+35	P.E., LT	10	15
1137+62	F.E., RT	15	24
1139+00	P.E., RT	73	15
1139+07	P.E., LT	9	13
1144+86	P.E., RT	10	15
1147+42	P.E., RT	10	12
1148+00	P.E., RT	11	16
1149+33	C.E., LT	19	30
1149+33	C.E., RT	36	55
678+50	P.E., RT	10	15
680+71	P.E., RT	8	12
685+42"G"	STH 167, C.E., RT	21	35
691+08"D"	STH 167, C.E., LT	21	35
691+31	C.E., RT	40	63
692+19"D"	STH 167, P.E., LT	11	16
693+73"D"	STH 167, C.E., LT	21	35
694+42"C"	STH 167, P.E., RT	8	11
695+05"C"	STH 167, P.E., RT	64	20
1158+00	P.E., RT	15	24
1159+28	P.E.,RT	59	17
1159+41	C.E., LT	17	28
1161+10	P.E.,RT	33	9
1161+77	P.E.,RT	7	10
1163+21	P.E., RT	68	14
1164+29	C.E., RT	16	26
1165+18	C.E., LT	20	34
1166+41	P.E., RT	12	19
1168+50	C.E., RT	14	18
1168+77	P.E., RT	8	10
1170+42	P.E., RT	12	9
1170+50	P.E., LT	53	14
1172+14	C.E., RT	16	22
1173+78	P.E., LT	24	10
1174+70	P.E., LT	8	10
1175+18	C.E., RT	28	24
1175+31	P.E., LT	18	7
1176+02	P.E., LT	25	22
1176+09	P.E., RT	30	27
1176+59	P.E., RT	14	18
1176+72	P.E., LT	47	24
1177+77	C.E., RT	38	35
1178+46	C.E., LT	38	34
1180+24	C.E., LT	33	30
1180+50	P.E., LT	20	18
1180+88	C.E., RT	46	20
1181+76	C.E., RT	20	34
1181+84	P.E., LT	12	15
1182+73	C.E., LT	21	28
1183+00	C.E., RT	30	35
1184+14	P.E., LT	11	17
1184+75	P.E., LT	11	16
1186+06	C.E., LT	21	35
1187+44	P.E., RT	13	16
1188+58	C.E., RT	59	86
1190+96	C.E., RT	24	40
1193+00	P.E., RT	12	18
1193+83	C.E., LT	21	35
	TOTAL	1,758	

CONCRETE ROUNDABOUT ITEMS

STATION	- STATION	LOCATION	405.0100 COLORING CONCRETE RED (CY)	416.0508 TRUCK APRON 8-INCH (SY)
1151+85	- 1152+60	MAINLINE	---	213
1151+85	- 1152+60	MAINLINE	52	---
	TOTALS		52	213

465.0120
ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

STATION	- STATION	LOCATION	(TON)
---	- 1089+77	C.E., LT	12
---	- 1093+21	C.E., LT	6
---	- 1093+21	C.E., RT	11
---	- 1093+94	C.E., LT	6
---	- 1099+05	C.E.,RT	15
---	- 1100+41	C.E.,LT	6
---	- 1100+44	C.E., RT	14
---	- 1103+94	C.E., LT	10
---	- 1103+94	C.E., RT	12
---	- 1105+90	C.E., LT	3
---	- 1108+38	P.E., RT	11
---	- 1109+90	P.E., RT	14
---	- 1113+85	P.E., RT	21
---	- 1119+70	P.E., RT	4
---	- 1120+19	P.E., RT	5
---	- 1130+43	P.E., LT	4
---	- 1147+50	P.E., RT	1
---	- 1149+33	C.E., RT	17
---	- 1158+00	P.E.,RT	2
---	- 1159+41	C.E., LT	10
---	- 1161+77	P.E., RT	3
---	- 1164+29	C.E., RT	8
---	- 1165+18	C.E., LT	8
---	- 1166+41	P.E., RT	5
---	- 1168+50	C.E., RT	2
---	- 1168+77	P.E., RT	2
---	- 1172+14	C.E., RT	3
---	- 1174+70	P.E., LT	3
---	- 1176+02	P.E., LT	2
---	- 1177+77	C.E., RT	3
---	- 1178+46	C.E., LT	4
---	- 1180+24	C.E., LT	4
1181+30	- 1183+55	COMMERCIAL LOT, RT	44
---	- 1181+84	P.E., LT	2
---	- 1184+14	P.E., LT	4
---	- 1184+75	P.E., LT	3
---	- 1186+06	C.E., LT	9
---	- 1187+44	P.E., RT	4
---	- 1188+58	C.E., RT	22
---	- 1190+96	C.E., RT	10
---	- 1193+00	P.E., RT	6
---	- 1193+76	C.E., LT	2
---	- 100+30"HU"	C.E., LT, FREISTADT RD	4
---	- 101+31"HU"	C.E., RT, FREISTADT RD	5
---	- 678+50	P.E., RT, STH 167	6
---	- 680+71	P.E., RT, STH 167	6
---	- 685+42"G"	C.E., RT, STH 167	16
---	- 691+08"D"	C.E.,LT, STH 167	14
---	- 691+36	C.E.,RT, STH 167	18
---	- 692+20"D"	P.E.,LT, STH 167	5
---	- 693+73"D"	C.E.,LT, STH 167	10
---	- 694+41	P.E.,RT, STH 167	3
---	- 695+05	P.E.,RT, STH 167	7
---	- 698+90	C.E.,RT, STH 167	31
---	- ---	C.E., RT, RICHFIELD SERV.	22
---	- ---	P.E., LT, ELM STREET	2
	TOTAL		484

465.0125
ASPHALTIC SURFACE TEMPORARY

STAGE	STATION	- STATION	LOCATION	(TON)	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS (STA)
2A	689+60"C"	- 698+45"C"	STH 167, RT	50	9
			TOTALS	50	9

465.0315
ASPHALTIC FLUMES

STATION	LOCATION	(SY)
1194+05	STH 175, RT	17
694+28	STH 167, LT	13
696+05	STH 167, RT	13
	TOTAL	43

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

ASPHALTIC ITEMS

STATION	-	STATION	LOCATION	440.4410.S INCENTIVE IRI RIDE (DOL)	455.0105 ASPHALTIC MATERIAL PG58-28 (TON)	455.0605 TACK COAT (GAL)	460.1101 HMA PAVEMENT TYPE E-1 (TON)	460.4000 HMA COLD WEATHER PAVING (TON)	465.0105 ASPHALTIC SURFACE (TON)
1086+00	-	1097+43.79	MAINLINE	800.00	91.5	241	1524	381	---
1097+43.79	-	1121+00	MAINLINE	1940.00	194.0	511	3233	808	---
1121+00	-	1132+84.41	MAINLINE	---	97.8	339	1630	407	---
1132+84.41	-	1147+00	MAINLINE	1360.00	95.5	252	1592	398	---
1147+00	-	1158+00	MAINLINE	---	115.5	304	1925	481	---
1158+00	-	1185+93.5	MAINLINE	2280.00	191.7	505	3195	799	---
1186+42.1	-	1194+05	MAINLINE	300.00	45.7	120	761	190	---
---	-	---	BEECHWOOD INDUST. CT	---	5.6	15	94	24	---
97+00"HU"	-	99+81"HU"	HUBERTUS RD	---	27.8	73	463	116	---
100+18.9"HU"	-	103+55"HU"	FREISTADT RD	---	28.0	74	467	117	---
---	-	---	FAIRWAY VIEW CT	---	6.3	17	104	26	---
678+00	-	687+52	HOLY HILL RD / STH 167	---	92.7	239	1545	386	---
687+80	-	688+50	HOLY HILL RD / STH 167	---	1.2	0	20	5	---
688+72	-	701+00	HOLY HILL RD / STH 167	---	125.2	313	2086	522	---
---	-	---	RICHFIELD SERVICE	---	10.0	28	166	42	---
---	-	---	ELM STREET	---	5.9	17	99	25	---
---	-	---	DEPOT STREET	---	1.8	5	30	7	---
---	-	---	RAILROAD STREET	---	7.2	19	120	30	---
1088+39	-	1097+15	SHARED-USE PATH	---	13.8	0	---	---	230
1097+90	-	1108+19	SHARED-USE PATH	---	14.8	0	---	---	247
1108+87	-	1126+91	SHARED-USE PATH	---	21.8	0	---	---	363
1127+33	-	1152+37	SHARED-USE PATH	---	36.7	0	---	---	611
1152+85	-	1169+37.9	SHARED-USE PATH	---	23.6	0	---	---	393
			TOTALS	6680.00	1,254	3,072	19,054	4,764	1,844

CULVERT PIPE CORRUGATED STEEL

STATION	LOCATION	521.0115 CULVERT PIPE CORRUGATED STEEL 15-INCH (LF)	521.1015 APRON ENDWALLS FOR CULVERT PIPE STEEL 15-INCH (EACH)
1147+42	MAINLINE, RT	30	2
1148+00	MAINLINE, RT	32	2
103+00"HU"	FRIESTADT RD, LT	24	2
	TOTALS	86	6

MIN. THICKNESS = 0.064"

CULVERT PIPE CORRUGATED STEEL

STATION	LOCATION	521.0118 CULVERT PIPE CORRUGATED STEEL 18-INCH (LF)	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH (EACH)
692+19"D"	STH 167, LT	24	2
693+73"D"	STH 167, LT	120	2
	TOTALS	144	4

CULVERT PIPE CORRUGATED STEEL

STATION	LOCATION	521.0124 CULVERT PIPE CORRUGATED STEEL 24-INCH (LF)	521.1024 APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH (EACH)
1119+70	P.E., RT	20	2
1120+19	P.E., RT	30	2
698+72"C"	C.E., RT	132	2
	TOTALS	182	6

MIN. THICKNESS = 0.064"

CULVERT PIPE CORRUGATED STEEL

STATION	LOCATION	521.0136 CULVERT PIPE CORRUGATED STEEL 36-INCH (LF)	521.1036 APRON ENDWALLS FOR CULVERT PIPE STEEL 36-INCH (EACH)
1193+00	MAINLINE, RT	30	2
	TOTALS	30	2

MIN. THICKNESS = 0.079"

SPV.0165.03
WALL MODULAR BLOCK GRAVITY LRFD

STATION	-	STATION	DCATION	(SF)
1181+91.4	-	1182+27.3	MAILINE, LT	93
1182+41.8	-	1182+59.2	MAILINE, LT	76
			OTAL	169

601.0405
CONCRETE CURB & GUTTER 18-INCH TYPE A

STATION	-	STATION	LOCATION	(LF)
1151+81	-	1152+58	MAINLINE, ROUNDABOUT	154
			TOTAL	154

601.0407
CONCRETE CURB & GUTTER 18-INCH TYPE D

STATION	-	STATION	LOCATION	(LF)
99+50"HU"	-	99+80"HU"	HUBERTUS RD, RT	72
1149+90	-	1151+64	MAINLINE	363
685+03	-	687+52	STH 167	513
688+72	-	690+18	STH 167	306
			TOTAL	1,254

601.0411
CONCRETE CURB & GUTTER 30-INCH TYPE D

STATION	-	STATION	LOCATION	(LF)
1146+80	-	1149+19"B"	MAINLINE, RT	260
1149+31	-	1152+35	MAINLINE, LT	308
1149+49	-	1151+54	MAINLINE, RT	567
1152+83	-	1186+33	MAINLINE, LT	3371
1152+35	-	1167+06	MAINLINE, RT	1790
1167+45	-	1169+39	MAINLINE, RT	242
1169+60	-	1173+48	MAINLINE, RT	421
1173+78	-	1181+27	MAINLINE, RT	786
1181+61	-	1184+97	MAINLINE, RT	317
1186+05	-	1193+65	MAINLINE, RT	760
1187+75	-	1194+05	MAINLINE, LT	628
683+03"G"	-	687+53"H"	STH 167, RT	443
686+11"G"	-	687+56"G"	STH 167, LT	154
688+64	-	691+07	STH 167, RT	309
688+66	-	694+15	STH 167, LT	557
691+46	-	696+00	STH 167, RT	557
			TOTAL	11,470

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

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601.0557
CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D

STATION		STATION	LOCATION	(LF)
1087+25	-	1087+92	MAINLINE, LT	92
1088+17	-	1097+10	MAINLINE, LT	930
1088+75	-	1093+09	MAINLINE, RT	450
1093+14	-	1093+36	MAINLINE, RT	84
1093+39	-	1097+00	MAINLINE, RT	383
1097+69	-	1126+61	MAINLINE, RT	2933
1097+90	-	1108+31	MAINLINE, LT	1080
1108+65	-	1126+96	MAINLINE, LT	1868
1127+28		1127+58	MAINLINE, LT	52
1127+22	-	1146+80	MAINLINE, RT	1979
1130+33	-	1149+31	MAINLINE, LT	1898
97+50"HU"	-	99+50"HU"	HUBERTUS RD, RT	216
97+50"HU"	-	99+63"HU"	HUBERTUS RD, LT	203
100+35"HU"	-	101+59"HU"	FREISTADT RD, LT	125
100+52"HU"	-	103+00"HU"	FREISTADT RD, RT	251
678+25	-	682+80	STH 167, RT	476
			TOTAL	13,020

602.0410
CONCRETE SIDEWALK 5-INCH

STATION	-	STATION	LOCATION	(SF)
---	-	1087+68	MAINLINE, LT	153
---	-	1088+50	MAINLINE, LT	135
---	-	1093+24	MAINLINE, RT	84
---	-	1097+10	MAINLINE, LT	51
---	-	1098+00	MAINLINE, LT	109
---	-	1108+10	MAINLINE, LT	113
---	-	1109+00	MAINLINE, LT	135
---	-	1126+45	MAINLINE, RT	309
---	-	1126+84	MAINLINE, LT	150
---	-	1127+43	MAINLINE, RT	268
---	-	1127+43	MAINLINE, LT	248
1149+93"B"	-	1151+61"B"	MAINLINE, MEDIAN	1102
1152+57"E"	-	1153+90"E"	MAINLINE, MEDIAN	1819
1154+10"F"	-	1154+31"F"	MAINLINE, LT	60
1166+50	-	1166+93	MAINLINE, RT	265
1167+52	-	1169+32	MAINLINE, RT	831
1169+21	-	1182+59	MAINLINE, LT	8228
---	-	1184+56	MAINLINE, LT	140
1169+66	-	1173+43	MAINLINE, RT	2594
1173+82	-	1181+24	MAINLINE, RT	5294
1181+88	-	1188+15	MAINLINE, RT	4276
---	-	99+48"HU"	HUBERTUS RD, LT	109
99+50"HU"	-	99+80"HU"	HUBERTUS RD, ISLAND	173
---	-	99+58"HU"	HUBERTUS RD, RT	50
685+03	-	687+52	STH 167, MEDIAN	1518
688+74	-	690+16	STH 167, MEDIAN	1532
			TOTAL	29,746

601.0582
CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T

STATION		STATION	LOCATION	(LF)
1151+81	-	1152+58	MAINLINE, ROUNDABOUT	229
			TOTAL	229

602.0505
CURB RAMP DETECTABLE WARNING FIELD YELLOW

STATION	LOCATION	(SF)
1187+69	MAINLINE, LT	16
1088+48	MAINLINE, LT	16
1097+09	MAINLINE, LT	16
1097+30	MAINLINE, LT	32
1098+00	MAINLINE, LT	16
1108+10	MAINLINE, LT	16
1109+00	MAINLINE, LT	16
1126+36	MAINLINE, RT	8
1126+40	MAINLINE, LT	8
1126+44	MAINLINE, RT	8
1126+45	MAINLINE, RT	16
1126+85	MAINLINE, LT	16
1127+29	MAINLINE, RT	8
1127+40	MAINLINE, LT	16
1127+53	MAINLINE, LT	8
1127+58	MAINLINE, RT	8
1150+67	MAINLINE, RT	8
1151+08	MAINLINE, LT	8
1151+30	MAINLINE, RT	8
1151+40	MAINLINE MEDIAN	16
1151+40	MAINLINE, LT	8
686+73	STH 167, LT	8
686+86	STH 167, RT	8
687+25"H"	STH 167, RT	8
687+25"H"	STH 167, LT	8
687+25"G"	STH 167, RT	8
687+25"G"	STH 167, LT	8
689+93"C"	STH 167, LT	8
689+98"C"	STH 167, RT	8
689+93"D"	STH 167, RT	8
687+96"D""	STH 167, LT	8
689+32	STH 167, RT	8
689+42	STH 167, LT	8
1152+90"E"	MAINLINE, RT	8
1152+96"E"	MEDIAN, LT	8
1153+02"F"	MEDIAN, RT	8
1153+05"F"	MAINLINE, LT	8
1153+14	MAINLINE, RT	8
1154+24	MAINLINE, LT	8
1166+94	MAINLINE, RT	8
1167+58	MAINLINE, RT	8
1169+26	MAINLINE, RT	16
1169+30	MAINLINE, LT	16
1169+72	MAINLINE, RT	8
1173+35	MAINLINE, RT	16
1173+36	MAINLINE, LT	8
1173+90	MAINLINE, RT	12
1181+17	MAINLINE, RT	12
1181+98	MAINLINE, RT	16
1182+05	MAINLINE, LT	8
1184+60	MAINLINE, RT	16
	TOTAL	560

601.0600
CONCRETE CURB PEDESTRIAN

STATION	-	STATION	LOCATION	(LF)
1087+59	-	1087+81	MAINLINE, LT	29
1088+39	-	1088+59	MAINLINE, LT	25
1097+91	-	1098+06	MAINLINE, LT	20
1108+03	-	1108+19	MAINLINE, LT	21
1108+85	-	1109+06	MAINLINE, LT	25
1166+89	-	1167+01	MAINLINE, RT	11
1167+52	-	1167+63	MAINLINE, RT	11
1169+66	-	1169+77	MAINLINE, RT	11
1173+82	-	1173+93	MAINLINE, RT	11
1181+13	-	1181+24	MAINLINE, RT	11
			TOTAL	175

602.1500
CONCRETE STEPS

STATION	-	STATION	LOCATION	(SF)
---	-	1174+47	MAINLINE, LT	7
---	-	1175+05	MAINLINE, LT	5
---	-	1178+73	MAINLINE, RT	10
			TOTAL	22

RIPRAP

STATION	- STATION	LOCATION	606.0200 RIPRAP MEDIUM (CY)	W x L	645.0120 GEOTEXTILE FABRIC TYPE HR (SY)
1082+75		STH 175, 390 FT RT	23	14 x 22	52
1083+75		STH 175, 390 FT RT	50	26 x 26	100
1086+40		STH 175, 75 FT RT	10	11 x 12	27
1143+50		STH 175, 36 FT RT	4	6 x 9	14
1144+87		STH 175, 43 FT LT	4	6 x 9	14
1153+76		STH 175, 6 FT LT	4	5 x 10	14
1156+29		STH 175, 41 FT LT	7	9 x 10	20
1169+10		STH 175, 371 FT LT	13	12 x 15	34
1180+35		STH 175, 354 FT LT	9	10 x 12	25
1192+63		STH 175, 35 FT RT	19	15 x 17	44
1193+12		STH 175, 45 FT RT	9	10 x 12	25
685+95"G"		STH 167, 35 FT LT	10	11 x 12	27
686+50"G"		STH 167, 45 FT LT	267	8 x 9	17
696+35	- 698+35	STH 167, 44 FT LT	133	9 x 200	295
		TOTALS	561		708

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

					608.0315	608.0318	608.0324	608.0327	608.0330	608.0342	608.0348	608.0415	608.0418	608.0424	608.0427	608.0430	608.0436	608.0515	608.0524	608.0527	610.0424	610.0429	SPV.0090.05	612.0208	612.0210	522.1015	522.1024	522.1030	522.1036	522.1042	522.1048	520.8000	611.9800.S	
STORM SEWER PIPES & ENDWALLS					STORM SEWER PIPE REINFORCED CONCRETE																SSPRC HORZ ELLIP		BORE & JACK SSPRCP CL V, 24-INCH (LF)	PIPE UNDERDRAIN UNPERFORATED (PVC)		APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE						CONCRETE COLLARS FOR PIPE (EACH)	PIPE GRATES (EACH)	JOINT TIES (EACH)
					CLASS III							CLASS IV						CLASS V			CLASS HE-IV													
DWN STRUC	UP STRUC	DISCH ELEV	INLET ELEV	SLOPE %	15" (LF)	18" (LF)	24" (LF)	27" (LF)	30" (LF)	42" (LF)	48" (LF)	15" (LF)	18" (LF)	24" (LF)	27" (LF)	30" (LF)	36" (LF)	15" (LF)	24" (LF)	27" (LF)	24"X38" (LF)	29"X45" (LF)		8-INCH (LF)	10-INCH (LF)	15-INCH (EACH)	24-INCH (EACH)	30-INCH (EACH)	36-INCH (EACH)	42-INCH (EACH)	48-INCH (EACH)			
AWSMS	POND PIPE	981.91	982.00	0.22	---	---	42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	6
1.2	1.0	982.00	982.20	0.22	---	---	---	---	---	92	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	6
1.0	1.1	987.00	987.35	1.35	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1.0	2.0	982.20	982.50	0.12	---	---	---	---	---	250	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2.0	2.1	986.10	986.20	0.91	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2.1	2.2	986.20	986.80	0.92	65	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2.0	3.0	982.50	982.80	0.20	---	---	---	---	---	150	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3.0	3.1	985.55	985.65	0.91	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3.1	3.2	985.65	986.40	1.00	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3.0	3.3	985.55	985.75	0.87	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3.0	4.0	982.80	983.00	0.13	---	---	---	---	---	150	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4.0	4.1	985.25	985.30	0.50	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4.1	4.2	985.30	985.75	0.60	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4.0	5.0	983.00	983.20	0.16	---	---	---	---	---	125	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5.0	5.1	984.70	984.80	1.00	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5.0	5.2	984.70	984.80	0.32	---	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
5.0	6.0	983.20	983.50	0.12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	250	---	---	---	---	---	---	---	---	---	---	---
6.0	6.1	984.00	984.10	1.11	---	---	---	---	---	---	---	---	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6.1	6.2	984.10	984.30	0.40	---	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6.0	6.3	984.00	984.10	0.30	---	33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6.3	6.4	984.10	984.30	0.40	---	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6.3	6.5	984.10	984.30	0.57	---	35	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6.0	7.0	983.50	983.70	0.24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	85	---	---	---	---	---	---	---	---	---	---	---
7.0	7.1	984.00	984.15	0.28	---	---	---	---	---	---	---	---	53	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7.1	7.2	984.15	984.20	0.50	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7.0	7.3	984.00	984.40	0.44	---	---	---	---	---	---	---	---	90	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7.3	7.4	984.65	985.25	0.53	113	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7.4	7.5	985.25	985.50	0.49	---	---	---	---	---	---	---	51	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7.3	7.6	984.65	984.80	0.36	---	---	---	---	---	---	---	42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7.3	7.7	984.65	984.90	1.19	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
7.0	8.0	983.70	983.87	0.12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	140	---	---	---	---	---	---	---	---	---	---	---
8.0	8.1	984.00	984.15	1.67	---	---	---	---	---	---	---	---	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8.0	8.2	984.00	984.15	0.45	---	---	---	---	---	---	---	---	33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
8.0	9.0	983.87	984.00	0.14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	93	---	---	---	---	---	---	---	---	---	---	---
9.0	9.1	984.00	984.10	1.11	---	---	---	---	---	---	---	---	---	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9.1	9.2	984.10	984.20	0.67	---	---	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9.1	9.3	984.10	984.20	0.67	---	---	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9.3	9.4	984.20	984.30	0.24	---	---	42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9.0	9.5	984.00	984.10	0.28	---	---	---	---	---	---	---	---	---	36	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9.5	9.6	984.10	984.20	0.67	---	---	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9.5	9.7	984.10	984.20	0.67	---	---	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9.7	9.8	984.20	984.30	0.24	---	---	42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9.0	10.0	984.25	984.55	0.19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	157	---	---	---	---	---	---	---	---	---	---	---	---
10.0	10.1	985.05	985.10	0.56	---	---	---	---	---	---	---	---	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10.1	10.3	985.10	985.30	0.40	---	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10.0	10.2	985.05	985.15	0.31	---	---	---	---	---	---	---	---	32	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10.2	10.4	985.15	985.30	0.30	---	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10.0	11.0	984.55	985.00	0.18	---	---	---	---	---	---	---	---	---	---	250	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11.0	11.1	985.50	985.60	0.91	---	---	---	---	---	---	---	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11.0	11.2	985.50	985.60	0.43	---	---	---	---	---	---	---	---	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11.2	11.3	985.85	986.80	1.30	---	---	---	---	---	---	---	73	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11.0	12.0	985.25	990.50	1.75	---	---	---	---	---	---	---	---	---	300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12.0	12.1	991.00	991.25	2.27	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12.0	12.2	991.00	991.25	0.78	---	32	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12.0	13.0	990.50	1005.60	5.03	---	---	300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13.0	13.1	1006.10	1006.30	0.95	---	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13.0	13.2	1006.10	1006.30	0.57	---	35	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
13.0	14.0	1005.60	1019.35	5.50	---	---	250	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14.0	14.1	1019.85	1019.95	0.62	---	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14.0	14.2	1019.85	1020.00	0.58	---	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14.0	15.0	1019.35	1026.50	2.86	---	---	250	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

NOTES:
1. PIPE LENGTHS AND INVERTS ARE TO THE CENTER OF STRUCTURES.
2. JOINT TIES FOR CONCRETE PIPE SHALL BE PROVIDED AT ALL REINFORCED CONCRETE APRON ENDWALL LOCATIONS. APRON ENDWALLS SHALL BE TIED FOR THE LAST THREE JOINTS AT PIPE ENDS. THE COSTS OF THESE ARE INCIDENTAL TO THE ITEM, "STORM SEWER PIPE REINFORCED CONCRETE."
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NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

					608.0315	608.0318	608.0324	608.0327	608.0330	608.0342	608.0348	608.0415	608.0418	608.0424	608.0427	608.0430	608.0436	608.0515	608.0524	608.0527	610.0424	610.0429	SPV.0090.05	612.0208	612.0210	522.1015	522.1024	522.1030	522.1036	522.1042	522.1048	520.8000	611.9800.S	
STORM SEWER PIPES & ENDWALLS					STORM SEWER PIPE REINFORCED CONCRETE																SSPRC HORZ ELLIP		BORE & JACK SSPRCP CL V, 24-INCH (LF)	PIPE UNDERDRAIN UNPERFORATED (PVC)		APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE						CONCRETE COLLARS FOR PIPE (EACH)	PIPE GRATES (EACH)	JOINT TIES (EACH)
					CLASS III							CLASS IV						CLASS V			CLASS HE-IV													
DWN STRUC	UP STRUC	DISCH ELEV	INLET ELEV	SLOPE %	15" (LF)	18" (LF)	24" (LF)	27" (LF)	30" (LF)	42" (LF)	48" (LF)	15" (LF)	18" (LF)	24" (LF)	27" (LF)	30" (LF)	36" (LF)	15" (LF)	24" (LF)	27" (LF)	24"X38" (LF)	29"X45" (LF)		8-INCH (LF)	10-INCH (LF)	15-INCH (EACH)	24-INCH (EACH)	30-INCH (EACH)	36-INCH (EACH)	42-INCH (EACH)	48-INCH (EACH)			
15.0	15.1	1027.00	1027.20	1.82	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15.1	15.2	1027.20	1027.70	0.67	---	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15.0	15.3	1027.00	1027.20	0.87	---	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15.3	15.4	1027.20	1027.70	0.67	---	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15.0	16.0	1026.50	1027.50	0.40	---	---	250	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16.0	16.1	1028.00	1028.15	1.36	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16.1	16.2	1028.15	1028.55	0.53	---	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16.0	16.3	1028.00	1028.15	0.65	---	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16.3	16.4	1028.15	1028.55	0.53	---	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16.0	17.0	1027.50	1028.90	0.47	---	---	300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17.0	17.1	1029.65	1029.80	1.36	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17.0	17.2	1029.65	1029.80	0.65	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17.0	18.0	1028.90	1030.55	0.55	---	---	300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18.0	18.1	1031.30	1031.50	1.43	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18.0	18.2	1031.30	1031.50	0.59	34	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18.2	18.3	1031.50	1032.50	1.33	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			SYSTEM TOTALS		587	828	1836	0	0	767	0	166	269	345	250	0	0	0	0	0	157	568	0	0	0	0	1	0	0	1	0	0	1	12
100.0	101.0	967.20	967.90	1.52	---	---	---	---	46	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	6
101.0	102.0	969.00	976.86	3.93	---	---	---	---	---	---	---	---	---	200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
102.0	102.1	977.61	978.00	1.18	33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
102.0	102.2	977.61	978.00	2.16	18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
102.2	102.3	978.00	978.25	4.17	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
102.0	103.0	976.86	986.39	6.15	---	---	155	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
103.0	103.1	987.14	987.50	1.00	36	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
103.0	103.2	987.14	987.50	2.12	17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
103.0	104.0	986.39	996.17	5.79	---	---	169	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
104.0	104.1	996.92	997.95	2.58	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
104.0	104.2	996.92	997.10	0.72	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
104.2	104.3	997.10	997.30	2.00	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
104.0	105.0	996.17	999.50	5.37	---	---	62	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
105.0	105.1	1000.25	1000.50	2.08	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
105.1	105.2	1000.50	1000.80	4.28	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
105.0	106.0	999.50	1002.35	2.08	---	---	137	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
106.0	106.1	1003.10	1003.50	0.54	74	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
106.1	106.2	1003.50	1003.60	1.25	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
106.0	106.3	1003.10	1003.50	2.00	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
106.0	107.0	1002.35	1006.05	5.97	---	---	62	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
107.0	107.1	1006.55	1007.00	3.00	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
107.1	107.2	1007.00	1007.20	0.50	---	---	---	---	---	---	---	---	39	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
107.2	107.3	1007.45	1010.55	3.36	92	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
107.3	107.4	1012.00	1012.18	3.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5	---	---	---	---	---	---	---	---
107.0	108.0	1006.05	1011.39	3.09	---	---	173	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
108.0	108.1	1012.14	1012.60	1.24	---	---	---	---	---	---	---	37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
108.0	108.2	1012.14	1012.26	1.09	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
108.0	109.0	1011.39	1015.43	4.44	---	---	91	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
109.0	109.1	1015.93	1016.40	1.96	---	24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
109.1	109.2	1016.65	1016.85	2.22	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
109.0	110.0	1015.43	1027.80	6.54	---	---	189	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
110.0	110.1	1028.30	1028.50	0.87	---	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
110.0	110.2	1028.30	1028.50	1.82	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
110.0	111.0	1027.80	1044.08	6.51	---	---	250	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
111.0	111.1	1044.83	1045.00	0.74	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
111.0	111.2	1044.83	1045.00	1.54	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
111.1	111.3	1045.00	1045.30	0.61	49	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
111.0	112.0	1044.08	1049.45	5.97	---	---	90	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
112.0	112.1	1050.20	1051.10	3.46	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
112.0	113.0	1049.45	1059.00	6.00	---	---	159	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
113.0	113.1	1059.75	1059.95	0.87	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
113.0	113.2	1059.75	1059.95	1.82	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			SYSTEM TOTALS		576	58	1537	0	46	0	0	37	39	200	0	0	0	0	0	0	0	0	0	0	5	0	0	1	0	0	0	0	0	6

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3. FIELD CHECK INVERT ELEVATION AND PIPE SIZE OF ALL CONNECTIONS TO EXISTING STORM SEWER.

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

					608.0315	608.0318	608.0324	608.0327	608.0330	608.0342	608.0348	608.0415	608.0418	608.0424	608.0427	608.0430	608.0436	608.0515	608.0524	608.0527	610.0424	610.0429	SPV.0090.05	612.0208	612.0210	522.1015	522.1024	522.1030	522.1036	522.1042	522.1048	520.8000	611.9800.S	
STORM SEWER PIPES & ENDWALLS					STORM SEWER PIPE REINFORCED CONCRETE																SSPRC HORZ ELLIP		BORE & JACK SSPRCP CL V, 24-INCH	PIPE UNDERDRAIN UNPERFORATED (PVC)		APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE						CONCRETE COLLARS FOR PIPE	PIPE GRATES	JOINT TIES
					CLASS III							CLASS IV						CLASS V			CLASS HE-IV													
DWN STRUC	UP STRUC	DISCH ELEV	INLET ELEV	SLOPE %	15" (LF)	18" (LF)	24" (LF)	27" (LF)	30" (LF)	42" (LF)	48" (LF)	15" (LF)	18" (LF)	24" (LF)	27" (LF)	30" (LF)	36" (LF)	15" (LF)	24" (LF)	27" (LF)	24"X38" (LF)	29"X45" (LF)	24-INCH (LF)	8-INCH (LF)	10-INCH (LF)	15-INCH (EACH)	24-INCH (EACH)	30-INCH (EACH)	36-INCH (EACH)	42-INCH (EACH)	48-INCH (EACH)	(EACH)	(EACH)	(EACH)
200.0	201.0	1002.90	1003.20	0.42	---	---	---	---	---	---	---	---	---	---	---	---	72	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	6
201.0	201.1	1004.20	1004.60	0.95	---	---	---	---	---	---	---	---	42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
201.0	201.2	1004.20	1004.30	0.63	---	---	---	---	---	---	---	---	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
201.2	201.3	1004.30	1004.60	0.42	---	72	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
201.0	203.0	1003.20	1003.55	0.27	---	---	---	---	---	---	---	---	---	---	---	130	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
203.0	203.1	1004.55	1004.65	0.77	---	---	---	---	---	---	---	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
203.1	203.2	1004.65	1004.70	0.33	---	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
203.2	203.3	1004.70	1004.90	0.50	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
203.1	203.4	1004.90	1005.05	1.00	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
203.0	204.0	1003.55	1003.75	0.23	---	---	---	---	---	---	---	---	---	---	---	87	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
204.0	204.1	1004.75	1005.90	1.95	---	59	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
204.1	204.2	1005.90	1006.80	2.09	---	---	---	---	---	---	---	---	43	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
204.0	205.0	1004.00	1004.25	0.32	---	---	---	---	---	---	---	---	---	---	78	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
205.0	205.1	1005.00	1005.10	0.43	---	---	---	---	---	---	---	---	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
205.1	205.2	1005.10	1005.60	0.28	---	178	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			SYSTEM TOTALS		15	364	0	0	0	0	0	0	137	0	78	217	72	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	6
300.0	301.1	1002.50	1002.80	0.48	---	---	63	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	6
301.1	301.2	1002.80	1003.05	0.54	---	46	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
301.2	301.3	1003.05	1003.20	0.50	---	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
301.3	302.0	1003.20	1003.40	0.90	22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
302.0	302.1	1003.85	1003.90	0.50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	---	---	---	---	---	---	---	---	---
			SYSTEM TOTALS		22	76	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	1	0	0	0	0	0	6
400.0	401.1	1001.80	1001.95	0.47	32	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	6
401.1	401.2	1001.95	1002.05	0.53	---	---	---	---	---	---	---	---	19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
401.2	401.3	1002.05	1002.10	0.42	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
401.3	401.4	1002.10	1002.20	0.53	---	---	---	---	---	---	---	---	19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			SYSTEM TOTALS		44	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	6
500.0	501.1	991.20	991.72	0.93	---	---	56	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	6
501.1	501.2	991.72	992.14	0.91	---	---	---	---	---	---	---	---	---	---	46	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
501.2	501.3	992.14	992.50	0.92	---	---	39	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	6
			SYSTEM TOTALS		0	0	95	0	0	0	0	0	0	0	46	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	12
600.0	601.0	973.25	974.60	0.51	---	---	---	---	---	---	266	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	6
601.0	601.1	978.10	978.33	1.64	---	---	---	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
601.0	602.1	975.10	975.70	0.53	---	---	---	---	---	113	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
602.1	602.0	976.20	976.25	0.45	---	---	---	---	---	---	---	---	---	---	---	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
602.0	602.2	977.75	977.85	0.22	---	---	---	---	---	---	---	---	---	46	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
602.2	602.3	977.85	977.95	0.25	---	---	---	---	---	---	---	---	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
602.3	602.4	978.20	978.25	0.71	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
602.0	603.0	976.75	977.10	0.52	---	---	---	---	---	---	---	---	---	---	---	66	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
603.0	603.1	978.35	978.45	0.42	24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
603.1	603.2	978.45	978.85	0.50	80	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
603.0	604.0	977.60	980.75	1.43	---	---	---	---	---	---	---	---	---	---	220	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
604.0	604.1	981.50	981.60	0.83	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
604.0	604.2	981.50	981.60	0.42	24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
604.2	604.3	981.60	982.30	1.27	55	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
604.0	605.0	980.75	984.30	0.97	---	---	365	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
605.0	605.1	985.05	985.35	1.30	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
605.1	605.2	985.35	985.80	1.50	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
605.0	606.0	984.30	984.80	0.46	---	---	109	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
606.0	606.1	985.55	985.60	0.45	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

NOTES:
1. PIPE LENGTHS AND INVERTS ARE TO THE CENTER OF STRUCTURES.
2. JOINT TIES FOR CONCRETE PIPE SHALL BE PROVIDED AT ALL REINFORCED CONCRETE APRON ENDWALL LOCATIONS. APRON ENDWALLS SHALL BE TIED FOR THE LAST THREE JOINTS AT PIPE ENDS. THE COSTS OF THESE ARE INCIDENTAL TO THE ITEM, "STORM SEWER PIPE REINFORCED CONCRETE."
3. FIELD CHECK INVERT ELEVATION AND PIPE SIZE OF ALL CONNECTIONS TO EXISTING STORM SEWER.

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

					608.0315	608.0318	608.0324	608.0327	608.0330	608.0342	608.0348	608.0415	608.0418	608.0424	608.0427	608.0430	608.0436	608.0515	608.0524	608.0527	610.0424	610.0429	SPV.0090.05	612.0208	612.0210	522.1015	522.1024	522.1030	522.1036	522.1042	522.1048	520.8000	611.9800 S	
STORM SEWER PIPES & ENDWALLS					STORM SEWER PIPE REINFORCED CONCRETE																SSPRC HORZ ELLIP		BORE & JACK SSPRCP CL V, 24-INCH (LF)	PIPE UNDERDRAIN UNPERFORATED (PVC)		APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE						CONCRETE COLLARS FOR PIPE (EACH)	PIPE GRATES (EACH)	JOINT TIES (EACH)
					CLASS III							CLASS IV						CLASS V			CLASS HE-IV													
DWN STRUC	UP STRUC	DISCH ELEV	INLET ELEV	SLOPE %	15" (LF)	18" (LF)	24" (LF)	27" (LF)	30" (LF)	42" (LF)	48" (LF)	15" (LF)	18" (LF)	24" (LF)	27" (LF)	30" (LF)	36" (LF)	15" (LF)	24" (LF)	27" (LF)	24"X38" (LF)	29"X45" (LF)		8-INCH (LF)	10-INCH (LF)	15-INCH (EACH)	24-INCH (EACH)	30-INCH (EACH)	36-INCH (EACH)	42-INCH (EACH)	48-INCH (EACH)			
606.1	606.2	985.60	985.65	0.50	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
606.1	606.8	985.60	985.65	0.50	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
606.0	606.3	985.30	985.40	0.43	---	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
606.5	606.4	985.75	985.85	0.50	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
606.3	606.5	985.65	985.75	0.50	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
606.3	606.9	985.65	985.71	0.63	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
606.9	606.6	985.71	985.80	0.64	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
606.6	606.7	985.80	985.90	0.40	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
606.0	607.0	984.80	985.35	0.50	---	---	110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
607.0	607.1	986.10	986.20	0.43	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
607.1	607.2	986.20	986.30	0.67	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
607.0	608.0	985.35	985.75	0.67	---	---	60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
608.0	608.1	986.50	986.60	0.91	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
608.0	608.2	986.50	986.60	0.43	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
608.2	608.3	986.60	987.33	0.82	89	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			SYSTEM TOTALS		536	23	644	14	0	113	266	0	86	220	0	66	11	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	6
700.0	701.0	969.70	969.80	0.23	---	---	---	---	42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	6
701.0	702.0	969.80	970.60	0.25	---	---	---	---	316	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
702.0	703.0	970.60	970.75	0.25	---	---	---	---	60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
703.0	703.1	972.00	972.10	0.83	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
703.0	704.0	971.00	971.60	0.29	---	---	---	205	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
704.0	704.1	972.60	972.81	2.33	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
704.0	705.0	971.60	972.25	0.32	---	---	---	205	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
705.0	705.1	973.25	973.55	2.50	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
705.0	706.0	972.25	973.20	0.35	---	---	---	269	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
706.0	706.1	974.20	974.25	0.56	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
706.0	706.2	974.20	974.35	0.63	24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
706.2	706.3	974.35	974.65	0.86	35	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
706.0	707.0	973.20	973.40	0.27	---	---	---	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
707.0	707.1	974.40	974.55	0.63	24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
707.1	707.2	974.55	974.85	0.67	45	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
707.0	708.0	973.65	974.00	0.26	---	---	135	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
708.0	708.1	974.75	974.95	2.22	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
708.0	708.2	974.75	974.95	0.95	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
708.2	708.3	974.95	975.50	0.79	70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
708.0	709.0	974.00	974.50	0.31	---	---	162	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
709.0	709.1	975.25	975.40	1.30	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
709.0	709.2	975.25	975.55	0.61	49	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
709.2	709.3	975.55	975.75	0.80	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
709.2	709.4	975.55	975.60	0.71	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
709.0	710.0	974.50	974.65	0.56	---	---	27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
710.0	710.1	975.40	975.60	0.83	24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
710.1	710.2	975.60	976.00	0.89	45	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
710.0	711.0	974.65	974.90	0.26	---	---	95	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
711.0	711.1	975.65	975.90	1.04	24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			SYSTEM TOTALS		456	0	419	754	418	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	6
800.0	801.2	949.75	949.80	0.23	---	---	---	---	22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	6
801.2	801.0	949.80	949.85	0.45	---	---	---	---	---	---	---	---	---	---	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
801.0	801.1	951.10	951.30	0.82	---	---	---	---	---	---	---	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
801.0	802.0	949.85	951.00	0.96	---	---	---	---	---	---	---	---	---	---	---	120	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
802.0	802.1	951.85	952.00	1.36	---	---	---	---	---	---	---	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
802.1	802.2	952.00	952.40	0.62	---	65	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
802.0	803.0	951.00	951.65	0.62	---	---	---	---	---	---	---	---	---	---	---	105	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
803.0	803.1	952.80	952.95	1.36	---	---	---	---	---	---	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
803.0	804.0	951.65	952.30	1.30	---	---	---	---	---	---	---	---	---	---	---	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
804.0	804.1	953.40	954.00	2.61	---	---	---	---	---	---	---	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
804.0	804.2	952.55	952.75	1.82	---	---	---	---	---	---	---	---	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
804.2	804.3	952.75	953.25	0.77	---	---	65	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
804.0	805.0	952.40	955.30	1.61	---	---	---	---	---	---	---	---	---	---	---	---	---	---	180	---	---	---	---	---	---	---	---	---	---	---	---	---	---
805.0	805.1	957.70	957.80	0.91	---	---	---	---	---	---	---	---	---	---	---	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
805.1	INF 805.3	958.85	959.80	5.00	---	---	---	---	---	---	---	---	---	---	---	---	19	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---

NOTES:
1. PIPE LENGTHS AND INVERTS ARE TO THE CENTER OF STRUCTURES.
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					608.0315	608.0318	608.0324	608.0327	608.0330	608.0342	608.0348	608.0415	608.0418	608.0424	608.0427	608.0430	608.0436	608.0515	608.0524	608.0527	610.0424	610.0429	SPV.0090.05	612.0208	612.0210	522.1015	522.1024	522.1030	522.1036	522.1042	522.1048	520.8000	611.9800.S	
STORM SEWER PIPES & ENDWALLS					STORM SEWER PIPE REINFORCED CONCRETE																SSPRC HORZ ELLIP		BORE & JACK SSPRCP CL V, 24-INCH	PIPE UNDERDRAIN UNPERFORATED (PVC)		APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE								
					CLASS III							CLASS IV						CLASS V			CLASS HE-IV													
DWN STRUC	UP STRUC	DISCH ELEV	INLET ELEV	SLOPE %	15" (LF)	18" (LF)	24" (LF)	27" (LF)	30" (LF)	42" (LF)	48" (LF)	15" (LF)	18" (LF)	24" (LF)	27" (LF)	30" (LF)	36" (LF)	15" (LF)	24" (LF)	27" (LF)	24"X38" (LF)	29"X45" (LF)	(LF)	8-INCH (LF)	10-INCH (LF)	15-INCH (EACH)	24-INCH (EACH)	30-INCH (EACH)	36-INCH (EACH)	42-INCH (EACH)	48-INCH (EACH)	CONCRETE COLLARS FOR PIPE (EACH)	PIPE GRATES (EACH)	JOINT TIES (EACH)
805.1	805.2	957.80	958.90	0.68	---	---	---	---	---	---	---	---	---	---	---	---	---	---	162	---	---	---	---	---	---	---	---	---	---	---	---	---	---
805.2	INF 805.4	958.90	961.00	9.54	---	---	---	---	---	---	---	---	---	---	---	---	---	---	22	---	---	---	---	---	---	---	---	---	---	---	---	---	---
805.0	806.0	955.55	957.26	0.50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	106	---	---	---	235	---	---	---	---	---	---	---	---	---	---	---
806.0	806.1	962.79	962.90	0.46	---	---	---	---	---	---	---	---	---	---	---	---	---	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
806.1	806.2	962.90	963.35	0.39	---	---	---	---	---	---	---	---	---	---	---	---	---	116	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
806.0	806.3	962.79	962.85	0.55	---	---	---	---	---	---	---	---	---	---	---	---	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
806.0	807.0	962.04	971.05	3.13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	288	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
807.0	807.1	971.80	971.90	0.43	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
807.0	807.2	971.80	972.00	0.36	---	---	---	---	---	---	---	55	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
807.0	808.0	971.05	971.33	0.46	---	---	61	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
808.0	808.1	972.08	972.15	0.78	---	---	---	---	---	---	---	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
808.1	808.2	972.15	972.45	0.57	53	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
808.0	809.0	971.33	972.12	0.37	---	---	214	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
809.0	809.1	972.87	972.95	0.67	---	---	---	---	---	---	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
809.1	809.2	972.95	973.50	0.71	78	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
809.0	810.0	972.12	972.70	0.35	---	---	168	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
810.0	810.1	973.45	973.50	0.42	---	---	---	---	---	---	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
810.1	810.2	973.50	973.90	0.89	45	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
810.0	811.0	972.70	973.25	0.23	---	---	235	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
811.0	811.1	974.00	974.10	0.83	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
811.1	811.2	974.10	974.70	0.94	64	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			SYSTEM TOTALS		275	65	743	0	22	0	0	145	11	11	0	286	0	150	608	180	0	0	235	0	0	0	1	1	0	0	0	0	1	6
901.0	901.1	1038.99	1039.10	0.85	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
901.1	901.2	1039.35	1039.60	0.52	---	---	---	---	---	---	---	48	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
901.1	901.3	1039.10	1039.70	3.16	---	19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
901.3	902.1	1039.70	1050.25	3.25	---	325	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
902.1	902.2	1050.50	1051.00	1.43	35	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
902.1	902.3	1050.25	1050.80	3.67	---	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
			SYSTEM TOTALS		35	372	0	0	0	0	0	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			PROJECT TOTALS		2546	1786	5337	768	486	880	266	434	542	822	328	569	83	150	608	180	157	568	235	10	5	1	5	3	1	1	1	1	5	66

NOTES:
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3. FIELD CHECK INVERT ELEVATION AND PIPE SIZE OF ALL CONNECTIONS TO EXISTING STORM SEWER.

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

STORM SEWER STRUCTURES			611.2004	611.2005	611.2006	611.2007	611.2008	611.3003	611.3004	611.3230	611.3901	611.3902	611.0530	611.0545	611.0624	611.0627	611.0642	611.0652	611.0666	611.8120.S			
STRUCTURE NUMBER	STATION	OFFSET	MH 4-FT DIA (EACH)	MH 5-FT DIA (EACH)	MH 6-FT DIA (EACH)	MH 7-FT DIA (EACH)	MH 8-FT DIA (EACH)	INL 3-FT DIA (EACH)	INL 4-FT DIA (EACH)	INL 2X3-FT (EACH)	INL MEDIAN 1 GRATE (EACH)	INL MEDIAN 2 GRATE (EACH)	MANHOLE COVERS TYPE J (EACH)	MANHOLE COVERS TYPE L (EACH)	INLET COVERS TYPE H (EACH)	INLET COVERS TYPE HM (EACH)	INLET COVERS TYPE MS (EACH)	INLET COVERS TYPE T (EACH)	INLET COVERS TYPE Z (EACH)	COVER PLATES TEMPORARY (EACH)	RIM ELEV.	STRUC DEPTH (FT)	NOTES
---	1083+17	354' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	-	-	AWSMS RETENTION POND STRUCTURE
1.0	1087+00	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	992.98	9.70	
1.1	1087+00	32.8' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	989.80	2.45	NO SLOPE
2.0	1089+50	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	992.01	8.43	
2.1	1089+50	17.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	991.60	4.73	
2.2	1088+85	17.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	991.85	4.38	
3.0	1091+00	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	991.42	7.54	
3.1	1091+00	17.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	991.01	4.69	
3.2	1090+25	17.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	991.50	4.23	
3.3	1091+00	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	991.01	4.59	
4.0	1092+50	7.8' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	990.80	6.72	
4.1	1092+50	18.7' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	990.41	4.44	
4.2	1091+75	17.65' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	990.72	4.30	
5.0	1093+71.5	10.24' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	990.28	6.00	
5.1	1093+71.5	20.3' LT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	989.90	4.43	
5.2	1093+71.5	21.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	989.87	4.40	
6.0	1096+25	12' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	989.10	4.52	
6.1	1096+25	21.50' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	988.73	3.96	
6.2	1095+75	21.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	988.97	4.00	
6.3	1096+25	21.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	988.73	3.96	
6.4	1095+75	21.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	988.97	4.00	
6.5	1096+60	21.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	988.61	3.64	
7.0	1097+09.8	12.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	988.67	3.89	
7.1	1097+21.65	64.2' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	987.61	2.79	
7.2	1097+27.5	72.3' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	987.69	2.82	
7.3	100+87	16.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	988.94	3.87	
7.4	102+00.54	16.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	991.09	5.17	
7.5	102+00.54	34.65' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	988.10	2.60	NO SLOPE
7.6	100+87.02	25.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	988.74	3.27	
7.7	101+00	33.0' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	988.00	3.10	NO SLOPE
8.0	1098+50	12.0' LT	---	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	988.11	3.57	
8.1	1098+50	21.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	987.74	2.92	
8.2	1098+50	21.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	987.74	2.92	
9.0	1099+43	12.0' LT	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	988.00	3.33	
9.1	1099+43	21.5' LT	---	1	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	987.55	2.78	PROVIDE 2'X3' OPENING SEE UNDERDRAIN DETAIL
9.2	1099+28	21.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	987.63	2.86	
9.3	1099+58	21.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	987.63	2.76	
9.4	1100+00	21.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	987.67	2.70	
9.5	1099+43	21.5' RT	---	1	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	987.55	2.78	PROVIDE 2'X3' OPENING SEE UNDERDRAIN DETAIL
9.6	1099+28	21.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	987.63	2.76	
9.7	1099+58	21.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	987.63	2.76	
9.8	1100+00	21.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	987.67	2.70	
10.0	1101+00	12.0' LT	---	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	988.31	3.09	
10.1	1101+00	21.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	987.94	2.17	
10.2	1101+00	20.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	987.96	2.14	
10.3	1101+50	21.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	988.16	2.19	
10.4	1101+50	19.84' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	988.20	2.23	
11.0	1103+50	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	989.67	3.59	
11.1	1103+50	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	989.26	2.99	
11.2	1103+50	17.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	989.26	2.99	
11.3	1104+21	30.0' RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	2	---	---	---	990.35	3.55	SINGLE SLOPE
12.0	1106+50	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	996.90	5.32	
12.1	1106+50	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	996.49	4.57	
12.2	1106+50	26.8' RT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	996.31	4.39	
13.0	1109+50	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1012.07	5.39	
13.1	1109+50	27.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1011.46	4.49	
13.2	1109+50	29.45' RT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1011.42	4.45	
14.0	1112+00	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1025.60	5.17	
14.1	1112+00	22.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1025.09	4.47	
14.2	1112+00	20.2' RT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1025.14	4.47	
15.0	1114+50	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1033.29	5.71	
15.1	1114+50	17.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1032.88	5.01	
15.2	1115+25	17.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1032.96	4.59	
15.3	1114+50	17.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1032.88	5.01	
15.4	1115+25	17.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1032.96	4.59	

NOTES:
1. RIM ELEVATIONS ARE GIVEN AT THE FLOW LINE FOR INLET GRATES OR THE CENTER OF STRUCTURE FOR MANHOLES AND MEDIAN INLETS.
2. STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURES OR TO THE END OF PIPE WHERE THERE IS AN ENDWALL.
3. "STRUC DEPTH" = RIM ELEV MINUS INVERT ELEV, MINUS CASTING HEIGHT, MINUS 4" ADJUSTMENT, EXCEPT FOR MEDIAN INLETS, "STRUC DEPTH" = RIM ELEV MINUS INVERT ELEV.
4. FIELD CHECK INVERT ELEVATION AND PIPE SIZE OF ALL CONNECTIONS TO EXISTING STORM SEWER.

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

STORM SEWER STRUCTURES			611.2004	611.2005	611.2006	611.2007	611.2008	611.3003	611.3004	611.3230	611.3901	611.3902	611.0530	611.0545	611.0624	611.0627	611.0642	611.0652	611.0666	611.8120.S			
STRUCTURE NUMBER	STATION	OFFSET	MH 4-FT DIA (EACH)	MH 5-FT DIA (EACH)	MH 6-FT DIA (EACH)	MH 7-FT DIA (EACH)	MH 8-FT DIA (EACH)	INL 3-FT DIA (EACH)	INL 4-FT DIA (EACH)	INL 2X3-FT (EACH)	INL MEDIAN 1 GRATE (EACH)	INL MEDIAN 2 GRATE (EACH)	MANHOLE COVERS TYPE J (EACH)	MANHOLE COVERS TYPE L (EACH)	INLET COVERS TYPE H (EACH)	INLET COVERS TYPE HM (EACH)	INLET COVERS TYPE MS (EACH)	INLET COVERS TYPE T (EACH)	INLET COVERS TYPE Z (EACH)	COVER PLATES TEMPORARY (EACH)	RIM ELEV.	STRUC DEPTH (FT)	NOTES
16.0	1117+00	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1033.55	4.97	
16.1	1117+00	17.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1033.14	4.32	
16.2	1117+75	17.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1033.31	4.09	
16.3	1117+00	17.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1033.14	4.32	
16.4	1117+75	17.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1033.31	4.09	
17.0	1120+00	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1035.08	5.10	
17.1	1120+00	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1034.67	4.20	
17.2	1120+00	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1034.67	4.20	
18.0	1123+00	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1037.48	5.85	
18.1	1123+00	20.1' LT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1037.02	4.85	
18.2	1123+00	28.7' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1036.85	4.68	
18.3	1123+75	34.7' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1037.32	4.15	
	SYSTEM TOTALS		0	2	17	1	0	0	36	16	3	1	15	3	0	54	7	0	0	0			

100.0	696+35C	44.4' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			OUTFALL /APRON ENDWALL
101.0	696+00C	13.5' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	974.32	5.34	
102.0	694+00C	15.7' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	983.53	5.59	
102.1	693+99.56C	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	1	982.97	4.30	
102.2	694+00.65C	34.2' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	982.96	4.29	
102.3	694+00.70C	41.0' RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	2	---	---	---	982.45	4.20	SINGLE SLOPE
103.0	692+44.32C	19.3' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	993.20	5.73	
103.1	692+43.46C	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	1	992.58	4.41	
103.2	692+44.74C	37.2' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	992.64	4.47	
104.0	690+74.22C	18.8' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1003.61	6.36	
104.1	690+75.8D	17.6' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	1	1002.81	4.19	
104.2	690+71.41C	43.8' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	1003.07	5.30	
104.3	690+81.3C	44.9' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	1002.52	4.55	
105.0	690+10.99C	11.4' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1006.83	6.25	
105.1	690+09.41C	0.7' LT	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	1006.44	5.11	
105.2	690+08.76D	0.7' RT	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	1006.41	4.78	
106.0	688+71.85C	6.95' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1010.55	7.12	
106.1	688+24.51	36.07' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1	---	1	1008.84	4.59	REQ' TOP WITH 2'X2.5' OPEINING
106.2	688+16.59	37.84' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1	---	1	1008.69	4.34	REQ' TOP WITH 2'X2.5' OPEINING
106.3	688+77.4C	26.85' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	1010.45	6.28	
107.0	1151+59.36B	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1012.10	4.97	
107.1	1151+59.26B	9.9' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	1012.14	4.31	
107.2	1151+75	25.4' LT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	1011.44	3.57	
107.3	1150+92A	21.25' LT	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1014.26	2.63	
107.4	1150+73.5A	24.6' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-	-	CONNECT TO EXIST 10" PVC PIPE
108.0	1149+80.2B	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1017.39	4.92	
108.1	1149+82.07B	31.4' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	1016.50	3.23	
108.2	1149+79.57B	17.6' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	1017.00	4.07	
109.0	1148+89.65B	5.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1022.01	5.50	
109.1	1148+86.95B	28.9' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	1021.51	4.44	
109.2	1148+85.95B	37.7' RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	2	---	---	---	1021.70	4.85	SINGLE SLOPE
110.0	1147+00	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1034.29	5.41	
110.1	1147+00	17.56' LT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1033.88	4.71	
110.2	1147+00	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	1033.88	4.71	
111.0	1144+50	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1050.57	5.41	
111.1	1144+50	17.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1050.16	4.49	
111.2	1144+50	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1050.16	4.49	
111.3	1144+95	37' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	1047.80	2.50	SINGLE SLOPE
112.0	1143+60	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1056.05	5.52	
112.1	1143+60	32.0' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	1055.00	3.90	SINGLE SLOPE
113.0	1142+00	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1065.60	5.52	
113.1	1142+00	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1065.19	4.57	
113.2	1142+00	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1065.19	4.57	
	SYSTEM TOTALS		1	0	13	0	0	2	5	16	2	2	14	0	13	5	6	2	3	5			
200.0	685+87.6G	27.1' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			OUTFALL /APRON ENDWALL
201.0	685+30.5H	6' RT	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	---	---	1008.95	4.67	
201.1	685+70H	19.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	1008.66	3.39	
201.2	685+22.0H	19.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	1008.23	3.26	
201.3	684+50H	19.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	1008.24	2.97	
203.0	684+00G	6' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1008.72	4.09	
203.1	684+00G	19.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	1008.15	2.83	
203.2	683+85G	19.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	1008.15	2.78	
203.3	682+45G	19.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	1008.46	2.89	
203.4	684+15G	19.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	1008.16	2.44	
204.0	683+13G	6' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1008.84	4.01	
204.1	683+13G	65' RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	2	---	---	---	1009.80	3.90	DOUBLE SLOPE

NOTES:
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2. STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURES OR TO THE END OF PIPE WHERE THERE IS AN ENDWALL.
3. "STRUC DEPTH" = RIM ELEV MINUS INVERT ELEV, MINUS CASTING HEIGHT, MINUS 4" ADJUSTMENT, EXCEPT FOR MEDIAN INLETS, "STRUC DEPTH" = RIM ELEV MINUS INVERT ELEV.
4. FIELD CHECK INVERT ELEVATION AND PIPE SIZE OF ALL CONNECTIONS TO EXISTING STORM SEWER.

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

STORM SEWER STRUCTURES			611.2004	611.2005	611.2006	611.2007	611.2008	611.3003	611.3004	611.3230	611.3901	611.3902	611.0530	611.0545	611.0624	611.0627	611.0642	611.0652	611.0666	611.8120.S			
STRUCTURE NUMBER	STATION	OFFSET	MH 4-FT DIA (EACH)	MH 5-FT DIA (EACH)	MH 6-FT DIA (EACH)	MH 7-FT DIA (EACH)	MH 8-FT DIA (EACH)	INL 3-FT DIA (EACH)	INL 4-FT DIA (EACH)	INL 2X3-FT (EACH)	INL MEDIAN 1 GRATE (EACH)	INL MEDIAN 2 GRATE (EACH)	MANHOLE COVERS TYPE J (EACH)	MANHOLE COVERS TYPE L (EACH)	INLET COVERS TYPE H (EACH)	INLET COVERS TYPE HM (EACH)	INLET COVERS TYPE MS (EACH)	INLET COVERS TYPE T (EACH)	INLET COVERS TYPE Z (EACH)	COVER PLATES TEMPORARY (EACH)	RIM ELEV.	STRUC DEPTH (FT)	NOTES
204.2	682+70G	72' RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	2	---	---	---	1009.80	3.00	DOUBLE SLOPE
205.0	682+36G	6' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1009.11	3.78	
205.1	682+36G	29.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1008.45	2.93	
205.2	680+68G	29.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1008.99	2.92	
	SYSTEM TOTALS		0	0	3	0	1	0	9	0	0	2	4	0	7	2	4	0	0	0			
300.0	686+52.6G	34.7' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			OUTFALL /APRON ENDWALL
301.1	686+54.2H	19.4' RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	1009.24	5.77	
301.2	687+00H	17.54' RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	1009.60	5.88	
301.3	687+34.96H	19.18' RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	1009.79	5.51	
302.0	1152+10.33	44.2' LT	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1011.18	6.70	
302.1	1152+08.25	54.0' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-	-	CONNECT TO EXIST 8" PVC PIPE
	SYSTEM TOTALS		1	0	0	0	0	0	3	0	0	0	1	0	3	0	0	0	0	0			
400.0	1153+80.6F	49.9' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			OUTFALL /APRON ENDWALL
401.1	1153+80.15F	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	1005.17	2.55	
401.2	1153+80.15F	1.5'RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	1005.48	2.76	
401.3	1153+81.89E	1.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	1005.45	2.68	
401.4	1153+81.7E	17.7' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	1005.13	2.26	
	SYSTEM TOTALS		0	0	0	0	0	0	0	4	0	0	0	0	4	0	0	0	0	0			
500.0	1156+23.6F	39.7' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			OUTFALL /APRON ENDWALL
501.1	1155+74.8F	16.65' LT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	997.02	4.63	
501.2	1155+76.5E	17.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	997.20	4.39	
501.3	1155+50.0E	47.7' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	INFALL /APRON ENDWALL
	SYSTEM TOTALS		0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0			
600.0	1169+01.0	357.2' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-	-	OUTFALL /APRON ENDWALL
601.0	1167+64.23	129.14' LT	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	---	---	---	982.50	6.82	
602.1	1167+46.57	17.5' LT	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	982.48	6.11	REQ' TOP WITH 2'X3' OPEINING
602.0	1167+46.58	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	982.47	5.14	
602.2	1167+46.52	41.0' RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	981.05	2.53	
602.3	1167+05	41.0' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	981.05	2.43	
602.4	1167+05	48.0' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	981.20	2.28	
603.0	1166+80	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	982.73	4.55	
603.1	1166+80	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	982.31	3.19	
603.2	1166+00	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	982.53	3.01	
604.0	1164+60	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	987.27	5.44	
604.1	1164+60	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	986.86	4.59	
604.2	1164+60	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	986.86	4.59	
604.3	1164+05	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	988.22	5.65	
605.0	1160+95	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	991.57	6.19	
605.1	1160+95	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	991.16	5.14	
605.2	1161+25	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	991.32	4.85	
606.0	1159+85.5	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	991.20	5.32	
606.1	1159+85.5	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	990.71	4.44	SEE UNDERDRAIN DETAIL
606.2	1159+95.5	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	990.79	4.47	
606.3	1159+85.5	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	990.71	4.64	SEE UNDERDRAIN DETAIL
606.4	1159+45	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	990.85	4.33	
606.5	1159+65	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	990.80	4.38	
606.6	1166+10	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	990.81	4.34	
606.7	1160+35	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	990.87	4.30	
606.8	1159+75.5	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	990.79	4.47	
606.9	1159+95.5	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	990.79	4.41	
607.0	1158+75	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	991.62	5.19	
607.1	1158+75	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	991.21	4.34	
607.2	1158+60	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	991.33	4.36	
608.0	1158+15	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	992.13	5.30	
608.1	1158+15	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	991.72	4.45	
608.2	1158+15	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	991.72	4.45	
608.3	1157+25E	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	992.58	4.58	
	SYSTEM TOTALS		0	0	8	1	0	0	1	23	0	0	8	0	25	0	0	0	0	0			

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4. FIELD CHECK INVERT ELEVATION AND PIPE SIZE OF ALL CONNECTIONS TO EXISTING STORM SEWER.

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

STORM SEWER STRUCTURES			611.2004	611.2005	611.2006	611.2007	611.2008	611.3003	611.3004	611.3230	611.3901	611.3902	611.0530	611.0545	611.0624	611.0627	611.0642	611.0652	611.0666	611.8120.S			
STRUCTURE NUMBER	STATION	OFFSET	MH 4-FT DIA (EACH)	MH 5-FT DIA (EACH)	MH 6-FT DIA (EACH)	MH 7-FT DIA (EACH)	MH 8-FT DIA (EACH)	INL 3-FT DIA (EACH)	INL 4-FT DIA (EACH)	INL 2X3-FT (EACH)	INL MEDIAN 1 GRATE (EACH)	INL MEDIAN 2 GRATE (EACH)	MANHOLE COVERS TYPE J (EACH)	MANHOLE COVERS TYPE L (EACH)	INLET COVERS TYPE H (EACH)	INLET COVERS TYPE HM (EACH)	INLET COVERS TYPE MS (EACH)	INLET COVERS TYPE T (EACH)	INLET COVERS TYPE Z (EACH)	COVER PLATES TEMPORARY (EACH)	RIM ELEV.	STRUC DEPTH (FT)	NOTES
700.0	1180+35.2	353.9' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			OUTFALL /APRON ENDWALL
701.0	1180+63.3	322.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	977.50	6.62	
702.0	1180+50	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	977.54	5.86	
703.0	1179+90	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	977.75	5.92	
703.1	1179+90	18.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	977.32	4.55	
704.0	1177+84.5	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	978.49	5.81	
704.1	1177+84.5	15.5 LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	978.12	4.64	
705.0	1175+79	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	979.23	5.90	
705.1	1175+79	18.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	978.80	4.58	
706.0	1173+10	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	980.20	5.92	
706.1	1173+10	15.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	979.83	4.91	
706.2	1173+10	18.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	979.77	4.75	
706.3	1172+75	18.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	979.90	4.58	
707.0	1172+35	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	980.73	6.25	
707.1	1172+35	18.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	980.30	5.08	
707.2	1171+90	18.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	980.21	4.69	
708.0	1171+00	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	980.96	5.88	
708.1	1171+00	15.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	980.59	4.97	
708.2	1171+00	15.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	980.59	4.97	
708.3	1170+30	15.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	980.84	4.67	
709.0	1169+37.53	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	981.54	5.96	
709.1	1169+37.53	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	981.13	5.06	
709.2	1169+37.52	43.0' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	980.34	4.12	
709.3	1169+62.18	43.1' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	980.34	3.92	
709.4	1169+37.80	50.0' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	980.47	4.20	
710.0	1169+10	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	981.64	5.91	
710.1	1169+10	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	981.23	4.96	
710.2	1168+65	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	981.40	4.73	
711.0	1168+15	6.0' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	981.99	6.01	
711.1	1168+15	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	981.58	5.01	
		SYSTEM TOTALS	0	0	11	0	0	0	0	18	0	0	11	0	18	0	0	0	0	0			
800.0	1192+63	35.2' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			OUTFALL /APRON ENDWALL
801.0	1192+50	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	955.45	4.52	
801.1	1192+50	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	955.04	3.07	
801.2	1192+50	17.5' RT	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	955.04	4.57	REQ' TOP WITH 2'X3' OPEINING
802.0	1191+30	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	956.21	4.13	
802.1	1191+30	17.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	955.80	3.13	
802.2	1190+65	17.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	956.24	3.17	
803.0	1190+25	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	956.90	4.17	
803.1	1190+25	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	956.49	2.87	
804.0	1189+75	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	957.55	4.17	
804.1	1189+75	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	957.14	2.47	
804.2	1189+75	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	957.14	3.72	
804.3	1189+10	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	958.57	4.65	
805.0	1187+95	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	962.90	6.52	
805.1	1187+95	17.5' RT	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	962.49	4.02	REQ' TOP WITH 2'X3' OPEINING
INF805.3	1187+99	37' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-	-	INFALL /APRON ENDWALL
805.2	1186+32	17.5' RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	965.96	6.39	
INF805.4	1186+15.3	33' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-	-	INFALL /APRON ENDWALL
806.0	1184+53	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	968.04	9.70	
806.1	1184+53	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	967.63	4.06	
806.2	1185+70	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	969.59	5.57	
806.3	1184+53	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	967.63	4.11	
807.0	1181+64.58	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	977.05	4.92	
807.1	1181+64.58	17.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	976.64	4.07	
807.2	1181+64.58	61.4 RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	975.59	2.92	
808.0	1181+06.89	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	977.34	4.93	
808.1	1181+06.89	15.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	976.97	4.15	
808.2	1180+50	15.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	977.17	4.05	
809.0	1178+88.68	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	978.12	4.92	
809.1	1178+88.68	18.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	977.69	4.07	
809.2	1178+10	18.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	977.97	3.80	
810.0	1177+20	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	978.72	4.94	
810.1	1177+20	18.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	978.29	4.12	
810.2	1176+75	18.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	978.46	3.89	
811.0	1174+84.87	6.0' RT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	979.57	5.24	
811.1	1174+84.87	18.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	979.14	4.37	
811.2	1174+20	18.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	979.38	4.01	
		SYSTEM TOTALS	0	0	13	0	0	0	4	17	0	0	11	0	23	0	0	0	0	0			

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STORM SEWER STRUCTURES			611.2004	611.2005	611.2006	611.2007	611.2008	611.3003	611.3004	611.3230	611.3901	611.3902	611.0530	611.0545	611.0624	611.0627	611.0642	611.0652	611.0666	611.8120.S			
STRUCTURE NUMBER	STATION	OFFSET	MH 4-FT DIA (EACH)	MH 5-FT DIA (EACH)	MH 6-FT DIA (EACH)	MH 7-FT DIA (EACH)	MH 8-FT DIA (EACH)	INL 3-FT DIA (EACH)	INL 4-FT DIA (EACH)	INL 2X3-FT (EACH)	INL MEDIAN 1 GRATE (EACH)	INL MEDIAN 2 GRATE (EACH)	MANHOLE COVERS TYPE J (EACH)	MANHOLE COVERS TYPE L (EACH)	INLET COVERS TYPE H (EACH)	INLET COVERS TYPE HM (EACH)	INLET COVERS TYPE MS (EACH)	INLET COVERS TYPE T (EACH)	INLET COVERS TYPE Z (EACH)	COVER PLATES TEMPORARY (EACH)	RIM ELEV.	STRUC DEPTH (FT)	NOTES
901.0	1130+55.5	37' LT	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1044.48	4.41	CONNECT TO EXIST PIPE
901.1	1130+55.5	24.1' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1043.38	3.61	
901.2	1130+55.5	24.7' RT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1043.38	3.11	
901.3	1130+75.0	22.52 LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1044.10	3.73	
902.1	1134+00.0	17.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1056.06	5.14	
902.2	1134+00.0	17.5' RT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	1056.06	4.39	
902.3	1134+15.0	17.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	1056.64	5.17	
		SYSTEM TOTALS	0	0	1	0	0	0	4	2	0	0	1	0	0	6	0	0	0	0			
		PROJECT TOTALS	2	2	66	2	1	2	64	96	5	5	65	3	95	67	17	2	3	5			

NOTES:
1. RIM ELEVATIONS ARE GIVEN AT THE FLOW LINE FOR INLET GRATES OR THE CENTER OF STRUCTURE FOR MANHOLES AND MEDIAN INLETS.
2. STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURES OR TO THE END OF PIPE WHERE THERE IS AN ENDWALL.
3. "STRUC DEPTH" = RIM ELEV MINUS INVERT ELEV, MINUS CASTING HEIGHT, MINUS 4" ADJUSTMENT, EXCEPT FOR MEDIAN INLETS, "STRUC DEPTH" = RIM ELEV MINUS INVERT ELEV.
4. FIELD CHECK INVERT ELEVATION AND PIPE SIZE OF ALL CONNECTIONS TO EXISTING STORM SEWER.

612.0106
PIPE UNDERDRAIN 6-INCH

STATION - STATION	LOCATION	(LF)
1159+35.5 - 1160+35.5	STH 175, MAINLINE	200
	PROJECT TOTAL	200

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

LOCATION	TEMPORARY PEDESTRIAN SURFACE ASPHALT (SF)	TEMPORARY CURB RAMP (EACH)	TEMPORARY PEDESTRIAN SAFETY FENCE (LF)
UNDISTRIBUTED	500	10	500
PROJECT TOTAL	500	10	500

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

FILE NAME: N:\PDS\Projects\33600900\DDE\Graphical Information\Plan Sheets\030315_mq.dwg PLOT DATE: Sep 18, 2015 PLOT BY: Jim0 PLOT SCALE: ROTATION:

AWSMS RETENTION POND FINISHING ITEMS

STATION	STATION	LOCATION	625.0500 SALVAGED TOPSOIL (SY)	629.0210 FERTILIZER TYPE B (CWT)	630.0175 SEEDING MIXTURE NO. 75 (LB)	640.1303.S CLAY LINER (CY)	SPV.0060.01 ROOT STOCK (EACH)	SPV.0085.01 SEED MIX SPECIAL (LB)	SPV.0005.01 ROOT STOCK PROTECTION (ACRE)	SPV.0005.02 SEEDING (ACRE)	SPV.0005.03 SEED BED PREPARATION (ACRE)	SPV.0105.07 DEWATERING FOR DETENTION BASIN CONSTRUCTION (LS)	SPV.0180.01 MULCHING SPECIAL (SY)
1083+50	- 1087+00	MAINLINE, LT	12,254	9.0	32	490	390	14	0.7	0.73	1.03	1	5,000
---		UNDISTRIBUTED	---	1.0	3	---	---	---	---	---	---	---	500
		TOTALS	12,254 *	10.0 *	35	490	390	14	0.7	0.73	1.03	1	5,500

* SEE "FINISHING ITEMS" FOR MORE QUANTITIES.

FINISHING ITEMS

STATION	STATION	625.0100 TOPSOIL (SY)	625.0500 SALVAGED TOPSOIL (SY)	627.0200 MULCHING (SY)	629.0210 FERTILIZER TYPE B (CWT)	630.0130 SEEDING MIXTURE NO. 30 (LB)	631.0300 SOD WATER (MGAL)	631.1000 SOD LAWN (SY)
1086+00	1108+00	---	5308	---	5.3	---	190	8442
1108+00	1144+50	---	15,428	19,484	12.3	351	---	---
1144+50	1194+75	---	14,104	---	11.4	---	441	19,647
---	HUBERTUS	---	408	685	0.4	12	---	---
---	FREISTADT	---	645	1114	0.7	20	---	---
---	STH 167, WEST	---	4002	4886	3.5	88	16	705
---	STH 167, EAST	---	4016	5350	3.9	96	18	799
	UNDISTRIBUTED	5000	---	6481	8.5	133	125	5582
	TOTALS	5,000	43,911 *	38,000	46.0	700	790	35,175

* SEE "AWSMS RETENTION POND FINISHING ITEMS" FOR MORE QUANTITIES.

	625.0500 SALVAGED TOPSOIL (SY)	629.0210 FERTILIZER TYPE B (CWT)
PROJECT TOTALS	56,165	56.0

621.0100
LANDMARK REFERENCE MONUMENTS

STATION	LOCATION	(EACH)
685+78.86	STH 167, T9N, R19E, SECTION LINE, SEC. 12/13	1
685+78.86	WITNESS MONUMENTS	4
	TOTAL	5

624.0100
WATER

STATION	STATION	LOCATION	(MGAL)
1086+00.00	1097+43.79	MAINLINE	19
1097+43.79	1121+00.00	MAINLINE	47
1121+00.00	1132+84.41	MAINLINE	2
1132+84.41	1147+00.00	MAINLINE	37
1147+00.00	1158+00.00	MAINLINE	23
1158+00.00	1185+93.50	MAINLINE	44
1186+42.10	1194+75.00	MAINLINE	29
---	---	BEECHWOOD INDUST CT	1
97+00"HU"	99+81"HU"	HUBERTUS RD	2
11+18.9"HU"	103+55"HU"	FREISTADT RD	3
---	---	FAIRWAY VIEW CT	1
678+00.00	687+52.00	STH 167	18
688+72.00	701+00.00	STH 167	16
---	---	RICHFIELD SERVICE	1
---	---	ELM STREET	0
---	---	DEPOT STREET	0
---	---	RAILROAD STREET	1
		SHARED-USE PATH	5
		TOTAL	250

623.0200
DUST CONTROL SURFACE TREATMENT

STATION	STATION	LOCATION	(SY)
1086+00	1100+00	MAINLINE	21945
1100+00	1115+00	MAINLINE	26640
1115+00	1130+00	MAINLINE	12009
1130+00	1145+00	MAINLINE	18535
1145+00	1158+00	MAINLINE	26154
1158+00	1173+00	MAINLINE	20499
1173+00	1188+00	MAINLINE	20499
1188+00	1194+75	MAINLINE	9225
97+00"HU"	99+75"HU"	HUBERTUS	4911
100+25"HU"	103+55"HU"	FREISTADT	5049
678+00	687+50	STH 167	17607
688+70	700+19.60	STH 168	22383
		TOTAL	205,456

620.0300
CONCRETE MEDIAN SLOPED NOSE

STATION	LOCATION	(SF)	TYPE
99+55"HU"	HUBERTUS RD, RT	29	1
1149+95"A"	MAINLINE, RT	26	1
1151+60"A"	MAINLINE, RT	17	2
1152+58"E"	MAINLINE, LT	28	2
1153+90"E"	MAINLINE, LT	89	1
685+10"G"	STH 167, RT	33	1
687+48"G"	STH 167, RT	25	2
688+74"C"	STH 167, LT	17	2
690+15"C"	STH 167, LT	26	1
	TOTAL	290	

EROSION CONTROL

STATION	STATION	LOCATION	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)	628.2008 EROSION MAT URBAN CLASS I TYPE B (SY)	628.7504 TEMPORARY DITCH CHECKS (LF)	628.7560 TRACKING PAD (EACH)
1086+00	1087+50	MAINLINE, LT & RT	2160	2160	---	---	---
---	1087+18	MAINLINE, RT	---	---	---	---	1
1088+50	1093+00	MAINLINE, LT & RT	485	485	---	---	---
97+00"HU"	98+80"HU"	HUBERTUS, LT & RT	350	350	---	---	---
101+15"HU"	103+10"HU"	FREISTADT, LT & RT	170	170	---	15	---
103+10"HU"		FREISTADT, LT	---	---	7	---	---
1104+10	1108+25	MAINLINE, LT & RT	640	640	---	---	---
1108+75	1115+00	MAINLINE, LT	625	625	---	---	---
1115+00	1121+25	MAINLINE, LT & RT	820	820	177	---	---
1122+25	1128+75	MAINLINE, LT & RT	765	765	---	---	---
1132+75	1136+25	MAINLINE, RT	365	365	---	---	---
1141+15	1144+86	MAINLINE, LT & RT	---	---	---	132	---
1145+00	1148+80	MAINLINE, LT & RT	570	570	18	---	---
678+00"G"	686+85"G"	STH 167, LT	905	905	---	---	---
689+50	700+20	STH 167, LT & RT	1230	1230	30	---	---
1152+00	1158+00	MAINLINE, LT & RT	1040	1040	---	---	---
1158+00	1173+00	MAINLINE, LT & RT	2020	2020	---	---	---
1169+00		MAINLINE, LT	---	---	80	---	---
1179+90		MAINLINE, LT	---	---	134	---	---
1173+00	1188+00	MAINLINE, LT & RT	630	630	---	---	---
1193+25	1194+70	MAINLINE, RT	---	---	233	---	---
1188+00	1194+75	MAINLINE, LT & RT	785	785	---	---	---
---		UNDISTRIBUTED	2600	2600	101	33	---
		TOTALS	16,160	16,160	780	180	1

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

INLET PROTECTION		628.7005	628.7010	628.7015
STRUCTURE NO.	LOCATION	TYPE A (EACH)	TYPE B (EACH)	TYPE C (EACH)
1.1	1087+00, 32.8' LT	1	1	---
2.2	1088+85, 17.5' LT	1	---	1
2.1	1089+50,17.5' LT	1	---	1
3.1	1091+00,17.5' LT	1	---	1
3.2	1090+25, 17.5' LT	1	---	1
3.3	1091+00, 17.5' RT	1	---	1
4.1	1092+50, 18.7' LT	1	---	1
4.2	1092+75, 17.65' LT	1	---	1
5.1	1093+71.5, 20.3' LT	1	---	1
5.2	1093+71.5, 21.5' RT	1	---	1
6.1	1096+25, 21.5' LT	1	---	1
6.2	1095+75, 21.5' LT	1	---	1
6.3	1096+25, 21.5' RT	1	---	1
6.4	1095+75, 21.5' RT	1	---	1
6.5	1096+60, 21.5' RT	1	---	1
7.1	1097+21.6, 64.2' LT	1	---	1
7.2	1097+27.5, 72.3' LT	1	---	1
7.3	100+87, 16.50' RT	1	---	1
7.4	102+00.54, 16.50' RT	1	---	1
7.5	102+00.54, 34.7' LT	1	1	---
7.6	100+87, 25.5' LT	1	---	1
7.7	101+00, 33.0' RT	1	1	---
8.1	1098+50, 21.5' LT	1	---	1
8.2	1098+50, 21.5' RT	1	---	1
9.1	1099+43, 21.5' LT	1	---	1
9.2	1099+28, 21.5' LT	1	---	1
9.3	1099+58, 21.5' LT	1	---	1
9.4	1100+00, 21.5' LT	1	---	1
9.5	1099+43, 21.5' RT	1	---	1
9.6	1099+28, 21.5' RT	1	---	1
9.7	1099+58, 21.5' RT	1	---	1
9.8	1100+00, 21.5' RT	1	---	1
10.1	1101+00, 21.5' LT	1	---	1
10.2	1101+50, 21.5' LT	1	---	1
10.3	1101+00, 20.5' RT	1	---	1
10.4	1101+50,19.84' RT	1	---	1
11.1	1103+50, 17.5' LT	1	---	1
11.2	1103+50, 17.5' RT	1	---	1
11.3	11004+21, 30' RT	1	1	---
12.1	1106+50, 17.5' LT	1	---	1
12.2	1106+50, 26.8' RT	1	---	1
13.1	1109+50, 27.5' LT	1	---	1
13.2	1109+50, 29.45' RT	1	---	1
14.1	1112+00, 22.5' LT	1	---	1
14.2	1112+00, 20.2' RT	1	---	1
15.1	1114+50, 17.5' LT	1	---	1
15.2	1115+25, 17.5' LT	1	---	1
15.3	1114+50, 17.5' RT	1	---	1
15.4	1115+25, 17.5' RT	1	---	1
16.1	1117+00' 17.5' LT	1	---	1
16.2	1117+75' 17.5' LT	1	---	1
16.3	1117+00' 17.5' RT	1	---	1
16.4	1117+75' 17.5' RT	1	---	1
17.1	1120+00, 17.5' LT	1	---	1
17.2	1120+00, 17.5' RT	1	---	1
18.1	1123+00' 20.1' LT	1	---	1
18.2	1123+00' 28.7' RT	1	---	1
18.3	1123+75, 34.7' RT	1	---	1

INLET PROTECTION		628.7005	628.7010	628.7015
STRUCTURE NO.	LOCATION	TYPE A (EACH)	TYPE B (EACH)	TYPE C (EACH)
901.1	1130+55.5, 24.1' LT	1	---	1
901.2	1130+55.5, 24.1' RT	1	---	1
901.3	1130+75, 22.5' LT	1	---	1
902.1	1134+00, 17.5' LT	1	---	1
902.2	1134+00, 17.5' RT	1	---	1
902.3	1134+15, 17.5' LT	1	---	1
102.1	693+99.56C, 17.5' LT	1	---	1
102.2	694+00.65C 34.2' RT	1	---	1
102.3	694+00.70C 41.0' RT	1	1	---
103.1	692+43.46C, 17.5' LT	1	---	1
103.2	692+44.7C, 37.2' RT	1	---	1
104.1	690+75.8D, 17.6' LT	1	---	1
104.2	690+71.41C, 43.8' RT	1	---	1
104.3	690+81.30C, 44.9' RT	1	---	1
105.1	690+09.41C, 1.0' LT	1	---	1
105.2	690+08.76D, 1.0' RT	1	---	1
106.1	688+23.7, 36.4' LT	1	---	1
106.2	688+11.1,38.1' LT	1	---	1
106.3	688+77.4°C", 26.85' RT	1	---	1
107.1	1151+59.3B, 9.9' LT	1	---	1
107.2	1151+75.00, 25.4' LT	1	---	1
108.1	1149+80.1A,24.6' LT	1	---	1
108.2	1149+79.6B, 17.6' RT	1	---	1
109.1	1148+86.95B, 28.9' RT	1	---	1
109.2	1148+85.95B, 37.5' RT	1	1	---
110.1	1147+00, 17.5' LT	1	---	1
110.2	1147+00, 17.5' RT	1	---	1
111.1	1144+50, 17.5' LT	1	---	1
111.2	1144+50, 17.5' RT	1	---	1
111.3	1144+95, 37' LT	1	1	---
112.1	1143+60, 32.0' RT	1	1	---
113.1	1142+00, 17.5' LT	1	---	1
113.2	1142+00, 17.5' RT	1	---	1
201.1	685+70H, 19.5' RT	1	---	1
202.1	684+08H, 19.5' RT	1	---	1
202.2	684+50G, 19.5' RT	1	---	1
203.1	684+00G, 19.5' RT	1	---	1
203.2	683+85G, 19.5' RT	1	---	1
203.3	682+45G, 19.5' RT	1	---	1
203.4	684+15G, 19.5' RT	1	---	1
204.1	683+13G, 65' RT	2	2	---
204.2	682+70G, 72' RT	2	2	---
205.1	682+35G, 29.5' RT	1	---	1
205.2	680+58G, 29.5' RT	1	---	1
301.1	686+54.2H, 19.4' RT	1	---	1
301.2	687+00H, 17.54' RT	1	---	1
301.3	687+34.96H, 19.18' RT	1	---	1
401.1	1153+80.1F, 17.5' LT	1	---	1
401.2	1153+80.1F, 1.5' RT	1	---	1
401.3	1153+81.9E, 1.5' LT	1	---	1
401.4	1153+81.7E, 17.7' RT	1	---	1
501.1	1155+74.8E,16.7' LT	1	---	1
501.2	1155+76.5F, 17.5' RT	1	---	1
602.1	1167+46.6, 17.5' LT	1	---	1
602.2	1167+46.5, 41.0' RT	1	---	1
602.3	1167+05.02, 41.00' RT	2	---	2
603.1	1166+80, 17.5' RT	1	---	1
603.2	1166+00, 17.5' RT	1	---	1

INLET PROTECTION		628.7005	628.7010	628.7015
STRUCTURE NO.	LOCATION	TYPE A (EACH)	TYPE B (EACH)	TYPE C (EACH)
604.1	1164+60, 17.5' LT	1	---	1
604.2	1164+60, 17.5' RT	1	---	1
604.3	1164+05, 17.5' RT	1	---	1
605.1	1160+95, 17.5' RT	1	---	1
605.2	1161+25, 17.5' RT	1	---	1
606.1	1159+85.5, 17.5' LT	2	---	2
606.2	1159+95.5, 17.5' LT	1	---	1
606.3	1159+85.5, 17.5' RT	2	---	2
606.4	1159+45, 17.5' RT	1	---	1
606.5	1159+65, 17.5' RT	1	---	1
606.6	1166+10, 17.5' RT	1	---	1
606.7	1160+35, 17.5' RT	1	---	1
607.1	1158+75, 17.5' RT	1	---	1
607.2	1158+60, 17.5' RT	1	---	1
608.1	1158+15, 17.5' LT	1	---	1
608.2	1158+15, 17.5' RT	1	---	1
608.3	1157+25E, 17.5' RT	1	---	1
703.1	1179+90, 18.5' LT	1	---	1
704.1	1177+84.5, 15.5 LT	1	---	1
705.1	1175+79, 18.5' LT	1	---	1
706.1	1173+10, 15.5' LT	1	---	1
706.2	1173+10, 18.5' RT	1	---	1
706.3	1172+75, 18.5' RT	1	---	1
707.1	1172+35, 18.5' RT	1	---	1
707.2	1171+90, 18.5' RT	1	---	1
708.1	1171+00, 15.5' LT	1	---	1
708.2	1171+00, 15.5' RT	1	---	1
708.3	1170+30, 15.5' RT	1	---	1
709.1	1169+37.5, 17.5' LT	1	---	1
709.2	1169+37.5, 43.0' RT	2	---	2
709.3	1169+62.2, 43.1' RT	1	---	1
710.1	1169+10, 17.5' RT	1	---	1
710.2	1168+65, 17.5' RT	1	---	1
711.1	1168+15, 17.5' RT	1	---	1
801.1	1192+50, 17.5' LT	1	---	1
801.2	1192+50, 17.5' RT	1	---	1
802.1	1191+30, 17.5' RT	1	---	1
802.2	1190+65, 17.5' RT	1	---	1
803.1	1190+25, 17.5' RT	1	---	1
804.1	1189+75, 17.5' LT	1	---	1
804.2	1189+75, 17.5' RT	1	---	1
804.3	1189+10, 17.5' RT	1	---	1
805.1	1187+95, 17.5' RT	1	---	1
805.2	1186+32, 17.5' RT	1	---	1
806.1	1184+53,17.5' LT	1	---	1
806.2	1185+70,17.5' LT	1	---	1
806.3	1184+53,17.5' RT	1	---	1
807.1	1181+64.6, 17.5' LT	1	---	1
807.2	1181+64.6, 61.4 RT	1	---	1
808.1	1181+06.9, 15.5' RT	1	---	1
808.2	1180+50, 15.5' RT	1	---	1
809.1	1178+88.7, 18.5' RT	1	---	1
809.2	1178+10, 18.5' RT	1	---	1
810.1	1177+20, 18.5' RT	1	---	1
810.2	1176+75, 18.5' RT	1	---	1
811.1	1174+84.9, 18.5' RT	1	---	1
811.2	1174+20, 18.5' RT	1	---	1
	TOTALS	179	12	167

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

MISCELLANEOUS QUANTITIES - PLANTS (STATION 1089 to 1105):

Symbol	Botanical Name	Common Name	Size when Planted	Root Zone Mode	TOTAL QUANTITY
ITEM 632.0101 TREES:					
AF	Acer x freemanii 'Celzam' PP7279	Celebration Maple	2.5" cal.	B.B.	0
AS	Acer x freemanii 'Sienna' PP11322	Sienna Maple	2.5" cal.	B.B.	10
CM	Cornus mas 'Golden Glory'	Golden Glory Corneliancherry Dogwood	5' multi -stem	B.B.	0
JV	Juniperus virginiana 'Canaerti'	Canaert Juniper	5' ht.	B.B.	0
TF	Tilia X flavens 'Glenleven'	Glenleven Linden	2.0" cal.	B.B.	0
UC	Ulmus carpinifolia 'Accolade'	Accolade Elm	2.5" cal.	B.B.	7
UF	Ulmus 'Frontier'	Frontier Elm	1.75" cal.	B.B.	3
ITEM 632.0201 SHRUBS:					
Cs	Cornus sericea 'Isanti'	Isanti Dogwood	30" min.	#7 cont. or B.B	0
Dl	Diervilla lonicera	Dwarf Bush-honeysuckle	12" min.	#2 cont.	0
Jc	Juniperus chinensis 'Nicks Compact'	Nicks Compact Juniper	24" min.	#10 cont. or B.B.	0
Po	Physocarpus opulifolius 'Monlo' PP11211	Diablo Ninebark	24" min.	#5 cont.	0
Rt	Rhus typhina 'Bailtiger' PPAF	Tiger Eyes Cutleaf Staghorn Sumac	24" min.	# 5 cont.	0
ITEM 632.0301 VINES:					
ep	Echinacea purpurea	Purple Coneflower	-	#1 cont.	0
sh	Sporobolus heterolepsis	Prairie Dropseed	-	#1 cont.	0

B.B.: balled & burlapped cont.: container grown

MISCELLANEOUS QUANTITIES - PLANTS (STATION 1150 to 1155):

Symbol	Botanical Name	Common Name	Size when Planted	Root Zone Mode	TOTAL QUANTITY
ITEM 632.0101 TREES:					
AF	Acer x freemanii 'Celzam' PP7279	Celebration Maple	2.5" cal.	B.B.	8
AS	Acer x freemanii 'Sienna' PP11322	Sienna Maple	2.5" cal.	B.B.	0
CM	Cornus mas 'Golden Glory'	Golden Glory Corneliancherry Dogwood	5' multi -stem	B.B.	2
JV	Juniperus virginiana 'Canaerti'	Canaert Juniper	5' ht.	B.B.	11
TF	Tilia X flavens 'Glenleven'	Glenleven Linden	2.0" cal.	B.B.	7
UC	Ulmus carpinifolia 'Accolade'	Accolade Elm	2.5" cal.	B.B.	0
UF	Ulmus 'Frontier'	Frontier Elm	1.75" cal.	B.B.	0
ITEM 632.0201 SHRUBS:					
Cs	Cornus sericea 'Isanti'	Isanti Dogwood	30" min.	#7 cont. or B.B	3
Dl	Diervilla lonicera	Dwarf Bush-honeysuckle	12" min.	#2 cont.	32
Jc	Juniperus chinensis 'Nicks Compact'	Nicks Compact Juniper	24" min.	#10 cont. or B.B.	20
Po	Physocarpus opulifolius 'Monlo' PP11211	Diablo Ninebark	24" min.	#5 cont.	17
Rt	Rhus typhina 'Bailtiger' PPAF	Tiger Eyes Cutleaf Staghorn Sumac	24" min.	# 5 cont.	22
ITEM 632.0301 VINES:					
ep	Echinacea purpurea	Purple Coneflower	-	#1 cont.	34
sh	Sporobolus heterolepsis	Prairie Dropseed	-	#1 cont.	52

B.B.: balled & burlapped cont.: container grown

MISCELLANEOUS QUANTITIES - LANDSCAPE FEATURES:

Item	(CATEGORY 0050)		TOTAL QUANTITY
STH 175/STH 167 ROUNDABOUT (STATION 1150 to 1155):			
SPV.0035.01	Landscape Berm on NW Corner	100 CY	309 CY
	Landscape Berm on NE Corner	107 CY	
	Landscape Berm on SE Corner	102 CY	
SPV.0195.01	Outcrop Stone Boulders on NW Corner	160 SF (27 tons, 16 large boulders)	620 SF 105 (TONS)
	Outcrop Stone Boulders on NE Corner	225 SF (38 tons, 23 large boulders)	
	Outcrop Stone Boulders on NE Corner	235 SF (40 tons, 24 large boulders)	

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

3

628.7555
CULVERT PIPE CHECKS

STATION	LOCATION	(EACH)
103+15"HU"	FREISTADT RD, LT	3
1119+85	MAINLINE, RT	3
1120+35	MAINLINE, RT	3
1147+25	MAINLINE, RT	3
1147+80	MAINLINE, RT	3
1155"E"+50	MAINLINE, RT	3
1186+15	MAINLINE, RT	3
1188+00	MAINLINE, RT	3
1192+77	MAINLINE, RT	3
692+05"D"	STH 167, LT	3
692+85"D"	STH 167, LT	3
698+35	STH 167, RT	3
	TOTAL	36

633.5200
MARKERS CULVERT END

STATION	LOCATION	(EACH)
685+88"G"	STH 167, LT	1
686+53"G"	STH 167, LT	1
696+35"C"	STH 167, RT	1
1153+81"F"	MAINLINE, LT	1
1155+50"E"	MAINLINE, RT	1
1156+24"F"	MAINLINE, LT	1
1186+15	MAINLINE, RT	1
1187+99	MAINLINE, RT	1
1192+63	MAINLINE, RT	1
	TOTALS	9

SIGNS

SIGN NO.	SIGN CODE	W X H	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0622 POSTS WOOD 4x6x22 EACH	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	634.0816 POSTS TUBULAR STEEL 2X2-INCH X 16-FT EACH	637.2210 TYPE II REFLECTIVE H SF	637.2230 TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	COMMENTS
11-1	W14-3	48 X 36	--	1	--	--	--	--	--	6.00	--	--	
11-2	R2-1	24 X 30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 45
11-3	R1-1	36 X 36	1	--	--	--	--	--	7.46	--	--	--	
11-4	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
11-5	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
11-5A	D1-2	84 X 30	--	2	--	--	--	--	17.50	--	--	--	
11-6	W1-2L	30 X 30	--	1	--	--	--	--	--	6.25	--	--	
11-7	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
11-8	J4-1	24 X 36	--	1	--	--	--	--	6.00	--	--	--	
	M3-3	24 X 12	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	--	--	--	--	--	--	--	--	--	--	
11-9	W3-1	36 X 36	--	1	--	--	--	--	--	9.00	--	--	
11-11	R3-8A	36 X 30	--	1	--	--	--	--	7.50	--	--	--	
11-12	D7-68R	84 X 36	--	2	--	--	--	--	21.00	--	--	--	
11-13	--	-- X --	--	--	--	--	--	--	--	--	1	1	
11-14	R2-1	24 X 30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 45
11-15	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
11-16A	--	-- X --	--	--	--	--	--	--	--	--	1	--	MOUNT ON OVERHEAD SIGN SUPPORT
11-16	R1-1	36 X 36	--	--	--	--	--	--	7.46	--	--	--	MOUNT ON OVERHEAD SIGN SUPPORT
11-17	R1-3P	30 X 12	--	--	--	--	--	--	2.50	--	--	--	MOUNT BELOW 11-16
11-17A	R1-1	36 X 36	--	1	--	--	--	--	7.46	--	--	--	
11-17B	R1-3P	30 X 12	--	--	--	--	--	--	2.50	--	--	--	MOUNT BELOW 11-17A
11-17C	W3-1	36 X 36	--	1	--	--	--	--	--	9.00	--	--	
11-18	R2-1	24 X 30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 45
11-19	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
11-20	--	-- X --	--	--	--	--	--	--	--	--	1	1	
11-21	W12-1D	18 X 18	--	--	--	--	--	--	--	2.25	--	--	MOUNT BELOW 11-23
11-22	R1-1	36 X 36	--	1	--	--	--	--	7.46	--	--	--	
11-23	R1-3P	30 X 12	--	--	--	--	--	--	2.50	--	--	--	MOUNT BELOW 11-22
11-24	R1-1	36 X 36	--	1	--	--	--	--	7.46	--	--	--	
11-25	R1-3P	30 X 12	--	--	--	--	--	--	2.50	--	--	--	MOUNT BELOW 11-24
11-26	R1-1	36 X 36	--	1	--	--	--	--	7.46	--	--	--	
11-27	R1-3P	30 X 12	--	--	--	--	--	--	2.50	--	--	--	MOUNT BELOW 11-26
11-27A	R1-1	36 X 36	--	1	--	--	--	--	7.46	--	--	--	
11-27B	R1-3P	30 X 12	--	--	--	--	--	--	2.50	--	--	--	MOUNT BELOW 11-27A
11-28	R2-1	24 X 30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 40
11-28A	W3-1	36 X 36	--	1	--	--	--	--	--	9.00	--	--	
11-29	R1-1	36 X 36	1	--	--	--	--	--	7.46	--	--	--	
11-30	R1-3P	30 X 12	--	--	--	--	--	--	2.50	--	--	--	MOUNT BELOW 11-29
11-31	J4-1	24 X 36	--	1	--	--	--	--	6.00	--	--	--	
	M3-1	24 X 12	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	--	--	--	--	--	--	--	--	--	--	
11-32	--	-- X --	--	--	--	--	--	--	--	--	1	1	
12-1	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
12-2	R3-8A	36 X 30	--	1	--	--	--	--	7.50	--	--	--	
12-2A	R7-1D	18 X 24	--	--	--	--	--	--	3.00	--	--	--	MOUNT BELOW 12-2
12-3	W3-1	36 X 36	--	1	--	--	--	--	--	9.00	--	--	
12-4	D7-68L	60 X 30	--	2	--	--	--	--	12.50	--	--	--	
12-5	D1-2	54 X 24	--	2	--	--	--	--	9.00	--	--	--	
12-6	W1-7	48 X 24	--	1	--	--	--	--	--	8	--	--	
12-7	R2-1	24 X 30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 45
12-8	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
12-9	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
12-10	R1-1	36 X 36	1	--	--	--	--	--	7.46	--	--	--	
12-11	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
12-13	R2-1	24 X 30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 45
12-14	R3-20R	24 X 36	--	1	--	--	--	--	6.00	--	--	--	
12-15	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
13-1A	D12-2B	84 X 36	--	2	--	--	--	--	21.00	--	--	--	
13-1	D1-2	96 X 30	--	2	--	--	--	--	20.00	--	--	--	
13-2	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

SIGNS					634.0614	634.0616	634.0618	634.0622	634.0814	634.0816	637.2210	637.2230	638.2102	638.4000	
SIGN NO.	SIGN CODE	W	X	H	POSTS WOOD 4x6x14 EACH	POSTS WOOD 4x6x16 EACH	POSTS WOOD 4x6x18 EACH	POSTS WOOD 4x6x22 EACH	POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	POSTS TUBULAR STEEL 2X2-INCH X 16-FT EACH	TYPE II REFLECTIVE H SF	TYPE II REFLECTIVE F SF	MOVING SIGNS TYPE II EACH	MOVING SMALL SIGN SUPPORTS EACH	COMMENTS
13-3	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
13-4	D12-2B	84	X	36	--	2	--	--	--	--	21.00	--	--	--	
13-5	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
13-6	R3-8W	54	X	30	--	2	--	--	--	--	11.25	--	--	--	
13-7	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
13-9	R2-1	24	X	30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 45
13-10	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
13-11	R1-1	36	X	36	1	--	--	--	--	--	7.46	--	--	--	
13-12	R2-1	24	X	30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 45
14-1	R3-8W	54	X	30	--	2	--	--	--	--	11.25	--	--	--	
14-2	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
14-4	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
14-5	D1-2	96	X	30	--	2	--	--	--	--	20.00	--	--	--	
14-6	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
14-7	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
14-10	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
14-11	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
14-12	J1-1	24	X	39	--	1	--	--	--	--	6.50	--	--	--	
	M2-1	21	X	15	--	--	--	--	--	--	--	--	--	--	
	M1-6	24	X	24	--	--	--	--	--	--	--	--	--	--	
14-13	W2-6	36	X	36	--	--	1	--	--	--	--	9.00	--	--	16" X 16" INCIDENTAL FLAGS
14-14	W13-1	24	X	24	--	--	--	--	--	--	--	4.00	--	--	15 MPH, MOUNT BELOW 14-13
14-15	D2-2	114	X	24	2	--	--	--	--	--	19.00	--	--	--	
15-1	D1-62	132	X	96	--	--	--	3	--	--	88.00	--	--	--	
15-2	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
15-3	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
15-4	S1-1	36	X	36	--	--	1	--	--	--	--	6.75	--	--	
15-5	S16-9P	30	X	18	--	--	--	--	--	--	--	3.75	--	--	MOUNT BELOW 15-4
15-6	R2-6P	24	X	18	--	--	--	--	--	--	3.00	--	--	--	MOUNT BELOW 15-5
15-7	R2-1	24	X	30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 45
15-7A	S5-2	24	X	30	--	--	--	--	--	--	5.00	--	--	--	MOUNT BELOW 15-7
15-8	W3-2	36	X	36	--	1	--	--	--	--	--	9.00	--	--	16" X 16" INCIDENTAL FLAGS
15-9	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
15-10	R4-7	24	X	30	--	1	--	--	--	--	5.00	--	--	--	
15-11	W5-54	24	X	24	--	--	--	--	--	--	--	4.00	--	--	MOUNT BELOW 15-10
15-11A	R5-1	36	X	36	--	1	--	--	--	--	9.00	--	--	--	
15-11B	R3-4	24	X	24	--	--	--	--	--	--	4.00	--	--	--	MOUNT TO BACK OF 15-10
15-12	J4-1	24	X	36	--	1	--	--	--	--	6.00	--	--	--	
	M3-3	24	X	12	--	--	--	--	--	--	--	--	--	--	
	M1-6	24	X	24	--	--	--	--	--	--	--	--	--	--	
15-13	S1-1	36	X	36	--	--	--	--	1	--	--	6.75	--	--	
15-14	S16-7L	30	X	18	--	--	--	--	--	--	--	3.75	--	--	MOUNT BELOW 15-13
15-15	S1-1	36	X	36	--	--	--	--	1	--	--	6.75	--	--	
15-16	S16-7L	30	X	18	--	--	--	--	--	--	--	3.75	--	--	MOUNT BELOW 15-15
15-17	R1-2	36	X	31	--	--	--	--	1	--	3.88	--	--	--	18" X 18" INCIDENTAL FLAGS
15-18	R1-54	24	X	15	--	--	--	--	--	--	2.50	--	--	--	MOUNT BELOW 15-17
15-19	R1-2	36	X	31	--	--	--	--	--	1	3.88	--	--	--	18" X 18" INCIDENTAL FLAGS
15-20	R6-2R	24	X	30	--	--	--	--	--	--	5.00	--	--	--	MOUNT BELOW 15-19
15-21	D1-1	42	X	30	1	--	--	--	--	--	8.75	--	--	--	
15-22	R6-1R	36	X	12	--	--	--	--	1	--	3.00	--	--	--	RAB CIRCLE
15-23	R6-4B	60	X	24	--	--	--	--	--	--	10.00	--	--	--	RAB CIRCLE, MOUNT BELOW 15-22
15-24	R6-1R	36	X	12	--	--	--	--	1	--	3.00	--	--	--	RAB CIRCLE
15-25	R6-4B	60	X	24	--	--	--	--	--	--	10.00	--	--	--	RAB CIRCLE, MOUNT BELOW 15-24
15-26	R6-1R	36	X	12	--	--	--	--	1	--	3.00	--	--	--	RAB CIRCLE
15-27	R6-4B	60	X	24	--	--	--	--	--	--	10.00	--	--	--	RAB CIRCLE, MOUNT BELOW 15-26
15-28	R6-1R	36	X	12	--	--	--	--	1	--	3.00	--	--	--	RAB CIRCLE
15-29	R6-4B	60	X	24	--	--	--	--	--	--	10.00	--	--	--	RAB CIRCLE, MOUNT BELOW 15-28
15-30	D1-1	42	X	30	1	--	--	--	--	--	8.75	--	--	--	
15-31	S1-1	36	X	36	--	--	--	--	1	--	--	6.75	--	--	
15-32	S16-7L	30	X	18	--	--	--	--	--	--	--	3.75	--	--	MOUNT BELOW 15-31
15-33	R1-2	36	X	31	--	--	--	--	1	--	3.88	--	--	--	18" X 18" INCIDENTAL FLAGS
15-34	R1-54	24	X	15	--	--	--	--	--	--	2.50	--	--	--	MOUNT BELOW 15-33
15-35	R1-2	36	X	31	--	--	--	--	--	1	3.88	--	--	--	18" X 18" INCIDENTAL FLAGS
15-36	R6-2R	24	X	30	--	--	--	--	--	--	5.00	--	--	--	MOUNT BELOW 15-35
15-37	J4-1	24	X	36	--	1	--	--	--	--	6.00	--	--	--	
	M3-1	24	X	12	--	--	--	--	--	--	--	--	--	--	

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

SIGNS

SIGN NO.	SIGN CODE	W		H	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0622 POSTS WOOD 4x6x22 EACH	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	634.0816 POSTS TUBULAR STEEL 2X2-INCH X 16-FT EACH	637.2210 TYPE II REFLECTIVE H SF	637.2230 TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	COMMENTS
	M1-6	24	X	24	--	--	--	--	--	--	--	--	--	--	
15-38	S1-1	36	X	36	--	--	--	--	1	--	--	6.75	--	--	
15-39	S16-7L	30	X	18	--	--	--	--	--	--	--	3.75	--	--	MOUNT BELOW 15-38
15-40	R4-7	24	X	30	--	1	--	--	--	--	5.00	--	--	--	
15-40A	W5-54	24	X	24	--	--	--	--	--	--	--	4	--	--	MOUNT BELOW 15-40
15-40B	R3-4	24	X	24	--	--	--	--	--	--	4	--	--	--	MOUNT TO BACK OF 15-40
15-41	R3-8DD	36	X	30	1	--	--	--	--	--	7.50	--	--	--	
15-42	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
15-43	W3-2	36	X	36	--	1	--	--	--	--	--	9.00	--	--	16" X 16" INCIDENTAL FLAGS
15-44	R2-1	24	X	30	--	1	--	--	--	--	5.00	--	--	--	SPEED LIMIT 30
15-44A	S5-2	24	X	30	--	--	--	--	--	--	5.00	--	--	--	MOUNT BELOW 15-44
15-44B	R5-1	36	X	36	--	--	--	--	--	--	9.00	--	--	--	MOUNT ON BACK OF 15-44
15-45	S1-1	36	X	36	--	--	1	--	--	--	--	6.75	--	--	
15-46	S16-9P	32	X	18	--	--	--	--	--	--	--	4.00	--	--	MOUNT BELOW 15-45
15-47	R2-6P	24	X	18	--	--	--	--	--	--	3.00	--	--	--	MOUNT BELOW 15-46
15-48	D1-62	138	X	96	--	--	--	3	--	--	92.00	--	--	--	
15-49	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
15-50	W2-6	30	X	30	--	--	1	--	--	--	--	6.25	--	--	
15-51	W13-1	18	X	18	--	--	--	--	--	--	--	2.25	--	--	15 MPH, MOUNT BELOW 15-50
15-52	J1-1	24	X	39	--	1	--	--	--	--	6.50	--	--	--	
	M2-1	21	X	15	--	--	--	--	--	--	--	--	--	--	
	M1-6	24	X	24	--	--	--	--	--	--	--	--	--	--	
15-53	R4-7	24	X	30	--	1	--	--	--	--	5.00	--	--	--	
15-54	W5-54	24	X	24	--	--	--	--	--	--	--	4.00	--	--	MOUNT BELOW 15-53
15-54A	R5-1	36	X	36	--	--	--	--	--	--	9	--	--	--	
15-54B	R3-4	24	X	24	--	--	--	--	--	--	4	--	--	--	MOUNT TO BACK OF 15-53
15-55	J4-1	24	X	36	--	--	--	--	1	--	6.00	--	--	--	
	M3-4	24	X	12	--	--	--	--	--	--	--	--	--	--	
	M1-6	24	X	24	--	--	--	--	--	--	--	--	--	--	
15-56	S1-1	36	X	36	--	1	--	--	--	--	--	6.75	--	--	
15-57	S16-7L	30	X	18	--	--	--	--	--	--	--	3.75	--	--	MOUNT BELOW 15-56
15-58	S1-1	36	X	36	--	--	--	--	1	--	--	6.75	--	--	
15-59	S16-7L	30	X	18	--	--	--	--	--	--	--	3.75	--	--	MOUNT BELOW 15-58
15-60	D1-1	42	X	30	1	--	--	--	--	--	8.75	--	--	--	
15-61	R1-2	36	X	31	--	--	--	--	--	1	3.88	--	--	--	18" X 18" INCIDENTAL FLAGS
15-62	R6-2R	24	X	30	--	--	--	--	--	--	5.00	--	--	--	MOUNT BELOW 15-61
15-63	R1-2	36	X	31	--	--	--	--	1	--	3.88	--	--	--	18" X 18" INCIDENTAL FLAGS
15-64	R1-54	24	X	15	--	--	--	--	--	--	2.50	--	--	--	MOUNT BELOW 15-63
15-65	R1-2	36	X	31	--	--	--	--	1	--	3.88	--	--	--	18" X 18" INCIDENTAL FLAGS
15-66	R1-54	24	X	15	--	--	--	--	--	--	2.50	--	--	--	MOUNT BELOW 15-65
15-67	R1-2	36	X	31	--	--	--	--	--	1	3.88	--	--	--	18" X 18" INCIDENTAL FLAGS
15-68	R6-2R	24	X	30	--	--	--	--	--	--	5.00	--	--	--	MOUNT BELOW 15-67
15-69	D1-2	42	X	54	1	--	--	--	--	--	15.75	--	--	--	
15-70	S1-1	36	X	36	--	--	--	--	1	--	--	6.75	--	--	
15-71	S16-7L	30	X	18	--	--	--	--	--	--	--	3.75	--	--	MOUNT BELOW 15-70
15-72	S1-1	36	X	36	--	--	--	--	1	--	--	6.75	--	--	
15-73	S16-7L	30	X	18	--	--	--	--	--	--	--	3.75	--	--	MOUNT BELOW 15-72
15-74	J4-1	24	X	36	--	1	--	--	--	--	6.00	--	--	--	
	M3-2	24	X	12	--	--	--	--	--	--	--	--	--	--	
	M1-6	24	X	24	--	--	--	--	--	--	--	--	--	--	
15-75	R4-7	24	X	30	--	1	--	--	--	--	5.00	--	--	--	
15-76	W5-54	24	X	24	--	--	--	--	--	--	--	4.00	--	--	MOUNT BELOW 15-75
15-76A	R3-4	24	X	24	--	--	--	--	--	--	4.00	--	--	--	MOUNT TO BACK OF 15-75
15-77	R2-1	24	X	30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 45
15-78	R5-1	36	X	36	--	--	--	--	--	--	9.00	--	--	--	MOUNT ON BACK OF 15-77
16-1	R2-1	24	X	30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 30
16-2	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
16-4	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
16-5	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
16-8	R1-1	36	X	36	1	--	--	--	--	--	7.46	--	--	--	
16-9	R2-1	24	X	30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 30
16-10	R2-1	24	X	30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 30
16-11	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
16-12	R7-1D	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
16-13	R1-1	36	X	36	1	--	--	--	--	--	7.46	--	--	--	
16-14	R7-1R	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
16-15	R2-1	24	X	30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 30
16-16	R2-1	24	X	30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 30
16-17	R7-1L	18	X	24	--	--	--	--	--	--	3.00	--	--	--	MOUNT BELOW 16-16
16-18	R7-1L	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
16-19	R1-1	36	X	36	1	--	--	--	--	--	7.46	--	--	--	
16-20	R7-1R	18	X	24	1	--	--	--	--	--	3.00	--	--	--	
17-1	R7-1L	18	X	24	1	--	--	--	--	--	3.00	--	--	--	

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

SIGNS

SIGN NO.	SIGN CODE	W X H	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0622 POSTS WOOD 4x6x22 EACH	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	634.0816 POSTS TUBULAR STEEL 2X2-INCH X 16-FT EACH	637.2210 TYPE II REFLECTIVE H SF	637.2230 TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	COMMENTS
17-2	R7-1R	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
17-2A	R7-1R	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
17-2B	R7-1L	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
17-2C	R7-1R	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
17-3	R2-1	24 X 30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 30
17-3A	R7-1L	18 X 24	--	--	--	--	--	--	3.00	--	--	--	MOUNT BELOW 17-3
17-4	R2-1	24 X 30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 30
17-5	R7-1L	18 X 24	1	--	--	--	--	--	3.00	--	--	--	MOUNT BELOW 17-4
17-5A	R7-1R	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
17-6	R1-1	36 X 36	1	--	--	--	--	--	7.46	--	--	--	
17-7	R5-6	18 X 24	1	--	--	--	--	--	2.25	--	--	--	
17-9	W10-1	36 X 36	--	1	--	--	--	--	--	7.07	--	--	
17-10	R2-1	24 X 30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 30
17-11	W10-12	36 X 36	--	--	1	--	--	--	--	9.00	--	--	
17-12	W11-59P	30 X 24	--	--	--	--	--	--	--	5.00	--	--	MOUNT BELOW 17-11
17-13	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
17-14	W11-8	30 X 30	--	1	--	--	--	--	--	6.25	--	--	
17-15	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
17-16	R2-1	24 X 30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 30
17-17	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
17-18	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
17-19	W10-12	36 X 36	--	--	1	--	--	--	--	9.00	--	--	
17-20	W11-59P	30 X 24	--	--	--	--	--	--	--	5.00	--	--	MOUNT BELOW 17-19
17-21	W10-1	36 X 36	--	1	--	--	--	--	--	7.07	--	--	
18-1	R2-1	24 X 30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 30
18-2	R2-1	24 X 30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 40
18-3	W11-8	30 X 30	--	1	--	--	--	--	--	6.25	--	--	
18-4	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
18-5	R7-1D	18 X 24	1	--	--	--	--	--	3.00	--	--	--	
19-1	J1-1	24 X 39	--	1	--	--	--	--	6.50	--	--	--	
	M2-1	21 X 15	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	--	--	--	--	--	--	--	--	--	--	
19-2	W2-6	36 X 36	--	--	1	--	--	--	--	9.00	--	--	
19-3	W13-1	24 X 24	--	--	--	--	--	--	--	4.00	--	--	15 MPH, MOUNT BELOW 19-2
19-4	D1-62	144 X 96	--	--	--	3	--	--	96.00	--	--	--	
19-5	S1-1	36 X 36	--	--	1	--	--	--	--	6.75	--	--	
19-6	S16-9P	30 X 18	--	--	--	--	--	--	--	3.75	--	--	MOUNT BELOW 19-5
19-7	R2-6P	24 X 18	--	--	--	--	--	--	3.00	--	--	--	MOUNT BELOW 19-6
19-8	I2-3A	78 X 30	2	--	--	--	--	--	16.25	--	--	--	
19-9	R2-1	24 X 30	1	--	--	--	--	--	5.00	--	--	--	SPEED LIMIT 45
19-10	R1-1	36 X 36	1	--	--	--	--	--	7.46	--	--	--	
19-11	W3-2	36 X 36	--	1	--	--	--	--	--	9.00	--	--	16" X 16" INCIDENTAL FLAGS
20-1	W3-2	36 X 36	--	1	--	--	--	--	--	9.00	--	--	16" X 16" INCIDENTAL FLAGS
20-2	S1-1	36 X 36	--	--	1	--	--	--	--	6.75	--	--	
20-3	S16-9P	30 X 18	--	--	--	--	--	--	--	3.75	--	--	MOUNT BELOW 20-2
20-4	R2-6P	24 X 18	--	--	--	--	--	--	3.00	--	--	--	MOUNT BELOW 20-3
20-5	D1-62	144 X 84	--	--	--	3	--	--	84.00	--	--	--	
20-5A	W10-12	36 X 36	--	1	--	--	--	--	--	9.00	--	--	
20-6	W2-6	36 X 36	--	--	1	--	--	--	--	9.00	--	--	
20-7	W13-1	24 X 24	--	--	--	--	--	--	--	4.00	--	--	15 MPH, MOUNT BELOW 20-6
20-8	W10-1	36 X 36	--	1	--	--	--	--	--	7.07	--	--	
20-9	J1-1	24 X 39	--	1	--	--	--	--	6.50	--	--	--	
	M2-1	21 X 15	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	--	--	--	--	--	--	--	--	--	--	
20-10	J1-3	72 X 39	--	2	--	--	--	--	19.50	--	--	--	
	M2-1	21 X 15	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	--	--	--	--	--	--	--	--	--	--	
	M2-1	21 X 15	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	--	--	--	--	--	--	--	--	--	--	
	MB1-4	21 X 15	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	--	--	--	--	--	--	--	--	--	--	
20-11	I2-3	60 X 24	2	--	--	--	--	--	10.00	--	--	--	
20-12	R1-1	36 X 36	1	--	--	--	--	--	7.46	--	--	--	
20-13	W10-1	36 X 36	--	1	--	--	--	--	--	7.07	--	--	
--	W14-3	48 X 36	--	1	--	--	--	--	--	6.00	--	--	UNDISTRIBUTED QUANTITY, PLACE
--	W14-3	48 X 36	--	1	--	--	--	--	--	6.00	--	--	WITH LOCATING NPZ
--	W14-3	48 X 36	--	1	--	--	--	--	--	6.00	--	--	
--	W14-3	48 X 36	--	1	--	--	--	--	--	6.00	--	--	UNDISTRIBUTED QUANTITY, PLACE
--	W14-3	48 X 36	--	1	--	--	--	--	--	6.00	--	--	WITH LOCATING NPZ
	TOTALS		91	69	10	12	16	4	1,316.90	392.03	4	3	NOTE: ALL SIGNS ARE SIZE 2S

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

3

REMOVING SIGNS

SIGN NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
1-1	1	1	
1-2	1	1	
1-3	1	1	
1-4	1	1	
1-5	--	--	REMOVED WITH 1-4
1-6	1	1	
1-7	--	--	REMOVED WITH 1-6
1-8	1	1	
1-9	--	--	REMOVED WITH 1-8
1-10	1	2	
1-11	1	1	
1-13	1	--	
1-14	--	--	REMOVED WITH 1-13
1-15	1	1	
1-16	1	1	
1-17	1	1	
1-18	1	1	
1-19	1	1	
1-20	--	--	REMOVED WITH 1-19
1-21	1	1	
1-22	--	--	REMOVED WITH 1-21
1-23	1	1	
1-24	1	1	
1-25	--	--	REMOVED WITH 1-24
1-26	1	1	
2-1	1	1	
2-2	1	2	
2-3	1	1	
2-4	--	--	REMOVED WITH 2-3
2-5	1	1	
2-6	1	1	
2-7	1	1	
3-1	1	2	
3-2	1	2	
3-3	1	1	
3-4	1	1	
3-5	1	1	
4-1	1	2	
4-2	1	1	
4-3	--	--	REMOVED WITH 4-2
4-4	1	2	
4-5	1	1	
4-6	1	1	
4-7	1	1	
4-8	1	1	
5-1	1	2	
5-2	--	--	REMOVED WITH 5-1
5-3	1	2	
5-4	--	--	REMOVED WITH 5-4
5-5	1	1	
5-6	--	--	REMOVED WITH 5-5
5-7	1	1	
5-8	--	--	REMOVED WITH 5-7
5-9	1	1	
5-10	1	1	
5-11	1	1	
5-12	--	--	REMOVED WITH 5-11
5-13	1	1	
5-14	--	--	REMOVED WITH 5-13
5-15	1	1	
5-16	1	1	
5-17	1	1	
5-18	1	1	
5-19	1	1	

REMOVING SIGNS

SIGN NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
5-20	1	1	
5-21	1	1	
5-22	--	--	REMOVED WITH 5-21
5-23	1	1	
5-24	--	--	REMOVED WITH 5-23
5-25	1	1	
5-26	1	1	
5-27	--	--	REMOVED WITH 5-26
5-28	1	1	
5-29	1	1	
5-30	1	2	
5-31	1	1	
5-32	1	1	
5-33	--	--	REMOVED WITH 5-32
5-34	1	1	
5-35	--	--	REMOVED WITH 5-34
5-36	1	--	
5-37	1	1	
5-38	1	1	
5-39	1	1	
5-40	1	1	
5-41	1	1	
5-42	1	2	
6-1	1	1	
6-2	--	--	REMOVED WITH 6-2
6-3	1	1	
6-4	1	1	
6-5	1	1	
6-6	1	1	
6-7	1	1	
6-8	1	1	
6-9	--	--	REMOVED WITH 6-8
6-10	1	1	
6-11	1	1	
6-12	1	1	
6-13	1	1	
7-1	1	1	
7-2	1	1	
7-3	1	1	
7-4	--	--	REMOVED WITH 7-3
7-5	1	1	
7-6	1	1	
7-7	1	1	
7-8	1	1	
8-1	1	1	
8-2	1	1	
8-3	1	1	
8-4	--	--	REMOVED WITH 8-4
9-1	1	2	
9-2	1	2	
9-3	1	1	
9-4	1	1	
9-5	1	1	
9-6	1	1	
10-1	1	1	
10-2	1	1	
10-3	--	--	REMOVED WITH 10-2
10-4	1	1	
10-5	1	1	
10-6	1	1	
10-7	1	1	
10-8	1	2	
10-9	1	1	
10-10	1	1	
TOTALS	103	114	

TRAFFIC CONTROL COVERING SIGNS

STAGE	CYCLES	SIGNS	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	COMMENTS
1	1	--	--	7	
2	1	--	--	7	STH 175 DETOUR
2	1	8	8	10	STH 167 DETOUR
3	1	--	--	6	
	TOTALS		8	24	

TRAFFIC CONTROL DETOUR SIGNS 643.3000

STAGE	DAYS	DAY	COMMENTS
1	42	7,812	
2	67	20,368	STH 175 DETOUR
2	15	3,765	STH 167 DETOUR
3	103	12,772	
	TOTALS	31,945	

647.0156
PAVEMENT MARKING ARROWS EPOXY TYPE 1

STATION	LOCATION	EACH	COMMENTS
1093+25	RT	2	DRIVEWAY
1100+45	LT	2	DRIVEWAY
1103+95	LT	2	DRIVEWAY
	TOTALS	6	

648.0100
LOCATING NO-PASSING ZONES

LOCATION	MI
PROJECT	2.06
TOTAL	2.06

650.6000
CONSTRUCTION STAKING PIPE CULVERTS

STATION	LOCATION	(EA)
103+00"HU"	FREISTADT RD, LT	1
1119+70	P.E., RT	1
1120+19	P.E., RT	1
1147+42	P.E., RT	1
1148+00	P.E., RT	1
698+72"C"	C.E., RT	1
692+19"D"	P.E., LT	1
693+73"D"	P.E., LT	1
1193+00	P.E., RT	1
	TOTAL	9

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

3

TRAFFIC CONTROL

STAGE	STATION	-	STATION	LOCATION	643.0300 TRAFFIC CONTROL DRUMS (DAY)	643.0420 TRAFFIC CONTROL BARRICADES TYPE III (DAY)	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS (EACH)	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES (EACH)	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A (DAY)	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C (DAY)	643.0900 TRAFFIC CONTROL SIGNS (DAY)	643.1050 TRAFFIC CONTROL SIGNS PCMS (DAY)
1	---	-	1153+75	STH 175	0	390	0	0	468	0	78	78
1	---	-	---	RICHFIELD SERVICE	0	156	0	0	312	0	156	0
1	---	-	---	ELM STREET	0	156	0	0	312	0	156	0
1	---	-	---	DEPOT STREET	0	156	0	0	312	0	156	0
1	---	-	---	RAILROAD STREET	0	156	0	0	312	0	156	0
1	---	-	1194+05	STH 175	0	390	0	0	468	0	78	78
1	---	-	---	STH 175 @ PLEASANT HILL	0	156	0	0	312	0	156	0
2A	674+00	-	703+00	STH 167	1680	210	83	83	378	252	546	42
2B	674+00	-	703+00	STH 167	1800	120	80	80	200	300	440	0
2C	---	-	1098+25	STH 175	0	30	0	0	60	0	30	0
2C	---	-	1142+00	STH 175	0	75	0	0	90	0	15	0
2C	---	-	1153+75	STH 175	0	75	0	0	90	0	15	0
2C	---	-	---	STH 175 @ PLEASANT HILL	0	30	0	0	60	0	30	0
2C	---	-	---	STH 167 @ S. MAYFIELD	0	30	0	0	60	0	30	0
2C	---	-	677+50	STH 167	0	75	0	0	90	0	15	0
2C	---	-	701+50	STH 167	0	75	0	0	90	0	15	0
2C	---	-	---	WOLF RD	0	0	0	0	0	0	15	0
3	---	-	---	DETOUR-SB STH 175	0	0	0	0	0	0	0	0
3	---	-	---	DETOUR-NB STH 175	0	0	0	0	0	0	0	0
3	---	-	---	STH 175 @ AMY BELLE	0	162	0	0	324	0	162	0
3	---	-	1086+00	STH 175	0	405	0	0	486	0	243	81
3	---	-	1142+00	STH 175	0	405	0	0	486	0	243	81
3	---	-	---	HUBERTUS @ MAYFIELD	0	162	0	0	324	0	162	0
3	---	-	97+00"HU"	HUBERTUS RD	0	405	0	0	486	0	243	0
3	---	-	103+55"HU"	FRIESTADT RD	0	405	0	0	486	0	243	0
3	---	-	---	BEECHWOOD INDUSTRIAL CT	0	162	0	0	324	0	162	0
3	---	-	---	SKYLINE DR	0	162	0	0	324	0	162	0
				TOTALS	3,480	4,548	163	163	6,854	552	3,707	360

646.0600
REMOVING PAVEMENT MARKINGS

STATION	-	STATION	LOCATION	(LF)
680+50	-	700+50	STH 167, CENTERLINE	1975
680+75	-	682+00	STH 167, EDGELINE RT	125
688+75	-	698+50	STH 167, EDGELINE RT	975
			TOTALS	3,075

3

649.0100
TEMPORARY PAVEMENT MARKING 4-INCH

STATION	-	STATION	LOCATION	SOLID CL YELLOW (LF)	SOLID EDGE LINE WHITE (LF)
680+50	-	700+40	STH 167, STAGE 2A	4000	4000
680+50	-	700+00	STH 167, STAGE 2B	3900	3900
			UNDISTRIBUTED	800	800
			TOTALS	8,700	8,700
				17,400	

649.0300
TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE 4-INCH

STATION	-	STATION	LOCATION	
680+50	-	700+40	STH 167, UNDISTRIBUTED	1000
			TOTAL	1000

PAVEMENT MARKING

STATION	LOCATION	646.2304.S GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE) LF	646.2304.S GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW) LF	SPV.0090.02 GROOVED PREFORMED PLASTIC TAPE 4-INCH LF	647.0456 CURB EPOXY LF	647.0706 DIAGONAL EPOXY 6-INCH LF	647.0726 DIAGONAL EPOXY 12-INCH LF	SPV.0090.04 GROOVED PREFORMED PLASTIC TAPE 8-INCH LF	COMMENTS
1086+00 - 1152+00	RT & LT	11,605	10,388	5,486	20	152	400	1,868	STH 175
1152+00 - 1194+58	RT & LT	8,131	7,538	1,270	32	--	220	1,415	STH 175
97+00"HU" - 100+00"HU"	RT & LT	101	504	--	--	--	--	50	HUBERTUS RD
100+00"HU" - 103+55"HU"	RT & LT	252	647	--	--	--	--	162	HUBERTUS RD
678+00"G" - 687+57"G"	RT & LT	1,278	912	1,560	18	--	140	390	STH 167
688+70"C" - 701+00"C"	RT & LT	2,283	1,393	1,980	20	--	410	20	STH 167
	TOTALS	23,650	21,382	10,296	90	152	1,170	3,905	
		45,032							

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

650.4000
CONSTRUCTION STAKING STORM SEWER SYSTEM

STRUCTURE NO.	LOCATION	(EACH)	STRUCTURE NO.	LOCATION	(EACH)	STRUCTURE NO.	LOCATION	(EACH)	STRUCTURE NO.	LOCATION	(EACH)
1.0	1087+00, 6.0' LT	1	15.3	1114+50, 17.5' RT	1	203.3	682+45.0G, 19.5' RT	1	706.2	1173+10, 18.5' RT	1
1.1	1087+00, 32.8' LT	1	15.4	1115+25, 17.5' RT	1	203.4	684+15.0G, 19.5' RT	1	706.3	1172+75, 18.5' RT	1
2.0	1089+50, 6.0' LT	1	16.0	1117+00, 6.0' LT	1	204.0	683+13.0G, 6' RT	1	707.0	1172+35, 6.0' LT	1
2.1	1089+50, 17.5' LT	1	16.1	1117+00, 17.5' LT	1	204.1	683+13.0G, 65' RT	1	707.1	1172+35, 18.5' RT	1
2.2	1088+85, 17.5' LT	1	16.2	1117+75, 17.5' LT	1	204.2	682+70.0G, 72' RT	1	707.2	1171+90, 18.5' RT	1
3.0	1091+00, 6.0' LT	1	16.3	1117+00, 17.5' RT	1	205.0	682+35.0G, 6' RT	1	708.0	1171+00, 6.0' LT	1
3.1	1091+00, 17.5' LT	1	16.4	1117+75, 17.5' RT	1	205.1	682+35.0G, 29.5' RT	1	708.1	1171+00, 15.5' LT	1
3.2	1090+25, 17.5' LT	1	17.0	1120+00, 6.0' LT	1	205.2	680+58.0G, 29.5' RT	1	708.2	1171+00, 15.5' RT	1
3.3	1091+00, 17.5' RT	1	17.1	1120+00, 17.5' LT	1	301.1	686+54.2H, 19.37' RT	1	708.3	1170+30, 15.5' RT	1
4.0	1092+50, 7.81' LT	1	17.2	1120+00, 17.5' RT	1	301.2	687+00.0H, 17.54' LT	1	709.0	1169+37.53, 6.0' LT	1
4.1	1092+50, 18.66' LT	1	18.0	1123+00, 6.0' LT	1	301.3	687+34.96H, 19.18' RT	1	709.1	1169+37.53, 17.5' LT	1
4.2	1091+75, 17.65' LT	1	18.1	1123+00, 20.14' LT	1	302.0	1152+10.33, 44.2' LT	1	709.2	1169+37.53, 43.0' RT	1
5.0	1093+71.5, 10.24' LT	1	18.2	1123+00, 28.68' RT	1	401.1	1153+80.15F, 17.5' LT	1	709.3	1169+62.18, 43.06' RT	1
5.1	1093+71.5, 20.33' LT	1	18.3	1123+75, 34.68' RT	1	401.2	1153+80.15F, 1.5' RT	1	709.4	1169+37.52, 50.0' RT	1
5.2	1093+71.5, 21.50' RT	1	101.0	696+00, 13.51' RT	1	401.3	1153+81.9E, 1.5' LT	1	710.0	1169+10, 6.0' LT	1
6.0	1096+25, 12.05' LT	1	102.0	694+00, 15.72' RT	1	401.4	1153+81.7E, 17.69' RT	1	710.1	1169+10, 17.5' RT	1
6.1	1096+25, 21.50' LT	1	102.1	693+99.56C, 17.5' LT	1	501.1	1155+74.8F, 16.65' LT	1	710.2	1168+65, 17.5' RT	1
6.2	1095+75, 21.50' LT	1	102.2	694+00.65C, 34.17' RT	1	501.2	1155+76.49F, 17.5' RT	1	711.0	1168+15, 6.0' LT	1
6.3	1096+25, 21.50' RT	1	102.3	694+00.70C, 41' RT	1	601.0	1167+64.2, 129.1' LT	1	711.1	1168+15, 17.5' RT	1
6.4	1095+75, 21.50' RT	1	103.0	692+44.32C, 19.31' RT	1	602.1	1167+46.57, 17.5' LT	1	801.0	1192+50, 6.0' RT	1
6.5	1096+60, 21.50' RT	1	103.1	692+43.46C, 17.5' LT	1	602.0	1167+46.57, 6.0' LT	1	801.1	1192+50, 17.5' LT	1
7.0	1097+09.78, 12.02' LT	1	103.2	692+44.74C, 37.17' RT	1	602.2	1167+46.52, 40.98' RT	1	801.2	1192+50, 17.5' RT	1
7.1	1097+21.64, 64.17' LT	1	104.0	690+74.22C, 18.82' RT	1	602.3	1167+05, 41.00' RT	1	802.0	1191+30, 6.0' RT	1
7.2	1097+27.52, 72.25' LT	1	104.1	690+75.8D, 17.6' LT	1	602.4	1167+05.02, 48.0' RT	1	802.1	1191+30, 17.5' RT	1
7.3	100+87.02,16.50' RT	1	104.2	690+71.41C, 43.77' RT	1	603.0	1166+80, 6.0' LT	1	802.2	1190+65, 17.5' LT	1
7.4	102+00.5, 16.50' RT	1	104.3	690+81.30C, 44.89' RT	1	603.1	1166+80, 17.5' RT	1	803.0	1190+25, 6.0' RT	1
7.5	102+00.5, 34.65' LT	1	105.0	690+10.99C, 11.44' RT	1	603.2	1166+00, 17.5' RT	1	803.1	1190+25, 17.5' RT	1
7.6	100+87, 25.5' RT	1	105.1	690+09.41C, 1.0' LT	1	604.0	1164+60, 6.0' LT	1	804.0	1189+75, 6.0' RT	1
7.7	101+00HU, 33.0' RT	1	105.2	690+08.76D, 1.0' RT	1	604.1	1164+60, 17.5' LT	1	804.1	1189+75, 17.5' LT	1
8.0	1098+50, 12.0' LT	1	106.0	688+71.85C, 6.95' RT	1	604.2	1164+60, 17.5' RT	1	804.2	1189+75, 17.5' RT	1
8.1	1098+50, 21.5' LT	1	106.1	688+23.7, 36.35' RT	1	604.3	1164+05, 17.5' RT	1	804.3	1189+10, 17.5' RT	1
8.2	1098+50, 21.5' RT	1	106.2	688+11.1, 38.07' LT	1	605.0	1160+95, 6.0' LT	1	805.0	1187+95, 6.0' RT	1
9.0	1099+43, 12.0' LT	1	106.3	688+77.4C, 26.85' RT	1	605.1	1160+95, 17.5' RT	1	805.1	1187+95, 17.5' RT	1
9.1	1099+43, 21.5' LT	1	107.0	1151+59.36B, 6.0' RT	1	605.2	1161+25, 17.5' RT	1	805.2	1186+32, 17.5' RT	1
9.2	1099+28, 21.5' LT	1	107.1	1151+59.26B, 9.89' LT	1	606.0	1159+85.49, 6.0' LT	1	806.0	1184+53, 6.0' RT	1
9.3	1099+58, 21.5' LT	1	107.2	1151+75, 25.4' LT	1	606.1	1159+85.49, 17.5' LT	1	806.1	1184+53,17.5' LT	1
9.4	1100+00, 21.5' LT	1	107.3	1150+92A, 21.1' LT	1	606.2	1159+95.48, 17.5' LT	1	806.2	1185+70,17.5' LT	1
9.5	1099+43, 21.5' RT	1	108.0	1149+80.16B, 6.0' RT	1	606.3	1159+85.49, 17.5' RT	1	806.3	1184+53,17.5' RT	1
9.6	1099+28, 21.5' RT	1	108.1	1149+80.1A, 24.6' LT	1	606.4	1159+45, 17.5' RT	1	807.0	1181+64.58, 6.0' RT	1
9.7	1099+58, 21.5' RT	1	108.2	1149+79.56B, 17.5' RT	1	606.5	1159+65, 17.5' RT	1	807.1	1181+64.58, 17.5' LT	1
9.8	1100+00, 21.5' RT	1	109.0	1148+89.65B, 4.95' RT	1	606.6	1166+10, 17.5' RT	1	807.2	1181+64.58, 61.39 RT	1
10.0	1101+00, 12.0' LT	1	109.1	1148+86.95B, 28.88' RT	1	606.7	1160+35, 17.5' RT	1	808.0	1181+06.9, 6.0' RT	1
10.1	1101+00, 21.5' LT	1	109.2	1148+00B, 37.7' RT	1	606.8	1159+75.50, 17.5' LT	1	808.1	1181+06.9, 15.5' RT	1
10.2	1101+50, 21.5' LT	1	110.0	1147+00, 6.0' RT	1	606.9	1159+95.50, 17.5' RT	1	808.2	1180+50, 15.5' RT	1
10.3	1101+00, 20.5' RT	1	110.1	1147+00, 17.5' LT	1	607.0	1158+75, 6.0' LT	1	809.0	1178+88.68, 6.0' RT	1
10.4	1101+50, 19.84' RT	1	110.2	1147+00, 17.5' RT	1	607.1	1158+75, 17.5' RT	1	809.1	1178+88.68, 18.5' RT	1
11.0	1103+50, 6.0' LT	1	111.0	1144+50, 6.0' RT	1	607.2	1158+60, 17.5' RT	1	809.2	1178+10, 18.5' RT	1
11.1	1103+50, 17.5' LT	1	111.1	1144+50, 17.5' LT	1	608.0	1158+15, 6.0' LT	1	810.0	1177+20, 6.0' RT	1
11.2	1103+50, 17.5' RT	1	111.2	1144+50, 17.5' RT	1	608.1	1158+15, 17.5' LT	1	810.1	1177+20, 18.5' RT	1
11.3	1104+21, 30.0' RT	1	111.3	1144+95, 37' LT	1	608.2	1158+15, 17.5' RT	1	810.2	1176+75, 18.5' RT	1
12.0	1106+50, 6.0' LT	1	112.0	1143+60, 6.0' RT	1	608.3	1157+25E, 17.5' RT	1	811.0	1174+84.87, 6.0' RT	1
12.1	1106+50, 17.5' LT	1	112.1	1143+60, 32.0' RT	1	701.0	1180+63.30, 322.0' LT	1	811.1	1174+84.87, 18.5' RT	1
12.2	1106+50, 26.83' RT	1	113.0	1142+00, 6.0' RT	1	702.0	1180+50, 6.0' LT	1	811.2	1174+20, 18.5' RT	1
13.0	1109+50, 6.0' LT	1	113.1	1142+00, 17.5' LT	1	703.0	1179+90, 6.0' LT	1	901.0	1130+55.50, 37' LT	1
13.1	1109+50, 27.58' LT	1	113.2	1142+00, 17.5' RT	1	703.1	1179+90, 18.5' LT	1	901.1	1130+55.50, 24.1' LT	1
13.2	1109+50, 29.44' RT	1	201.0	685+30.5H, 6' RT	1	704.0	1177+84.50, 6.0' LT	1	901.2	1130+55.50, 24.7' RT	1
14.0	1112+00, 6.0' LT	1	201.1	685+70.0H, 19.5' RT	1	704.1	1177+84.50, 15.5 LT	1	901.3	1130+75.0, 22.52' LT	1
14.1	1112+00, 22.5' LT	1	201.2	685+22.0H, 19.5' RT	1	705.0	1175+79, 6.0' LT	1	902.1	1134+00.0, 17.5' LT	1
14.2	1112+00, 20.21' RT	1	201.3	684+50H, 19.5' RT	1	705.1	1175+79, 18.5' LT	1	902.2	1134+00.0, 17.5' RT	1
15.0	1114+50, 6.0' LT	1	203.0	684+00.0G, 6' RT	1	706.0	1173+10, 6.0' LT	1	902.3	1134+15.0, 17.5' LT	1
15.1	1114+50, 17.5' LT	1	203.1	684+00.0G, 19.5' RT	1	706.1	1173+10, 15.5' LT	1			
15.2	1115+25, 17.5' LT	1	203.2	683+85.0G, 19.5' RT	1						
										TOTAL	245

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

CONSTRUCTION STAKING

STATION	-	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE (LF)	650.5000 CONSTRUCTION STAKING BASE (LF)	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER (LF)	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE (LF)	650.9920 CONSTRUCTION STAKING SLOPE STAKES (LF)	SPV.0105.04 CONSTRUCTION STAKING AWSMS RETENTION POND LAYOUT (LS)
1083+00	-	1087+00	MAINLINE, RT	---	---	---	---	---	1
1086+00	-	1121+00	MAINLINE	3500	3500	5489	---	3500	---
1121+00	-	1132+84.41	MAINLINE	0	0	1131	1184	---	---
1132+84.41	-	1194+75	MAINLINE	6191	6191	13949	---	6191	---
---	-	---	BEECHWOOD INDUST. CT	59	59		---	59	---
97+00"HU"	-	99+79"HU"	HUBERTUS	279	279	491	---	279	---
100+21"HU"	-	103+55"HU"	FREISTADT	334	334	376	---	334	---
---	-	---	FAIRWAY VIEW CT	50	50		---	50	---
678+00	-	687+52	STH 167	952	952	1584	1600	952	---
688+73	-	700+19.60	STH 167	1147	1147	1612	2200	1147	---
700+19.60	-	701+00	STH 167	---	---	---	80	---	---
---	-	---	RICHFIELD SERVICE	124	124	58	---	124	---
---	-	---	ELM STR	122	122	63	---	122	---
---	-	---	DEPOT STR	23	23	30	---	23	---
---	-	---	RAILROAD STR	80	80	90	---	80	---
			TOTALS	12,861	12,861	24,873	5,064	12,861	1

690.0150
SAWING ASPHALT

STATION	-	STATION	LOCATION	(LF)
---		1086+00	MAINLINE	24
1087+42	-	1088+62	MAINLINE, RT	120
---		---	BEECHWOOD INDUST CT	26
---		97+00"HU"	HUBERTUS RD	33
---		101+30"HU"	C.E., LT, FREISTADT RD	55
---		102+31"HU"	C.E., RT, FREISTADT RD	50
---		103+55"HU"	FREISTADT RD	24
---		678+00	STH 167	34
---		678+50	P.E., RT, STH 167	16
---		684+00	STH 167	22
684+00	-	698+00	STH 167	1500
---		698+20	STH 167	23
678+00	-	684+60	STH 167	660
685+00	-	694+25	STH 167	925
---		678+57	P.E., RT, STH 174	23
---		680+71	P.E., RT, STH 167	11
---		682+95	RT, BASSWOOD LN	22
---		684+04"G"	P.E., RT, STH 167	9
---		685+42"G"	C.E., RT, STH 167	179
---		691+28"C"	C.E., RT, STH 167	51
---		692+19"D"	P.E., LT, STH 167	16
---		693+73"D"	C.E., LT, STH 167	96
---		698+80	LT, WOLF RD	28
---		698+72	C.E., RT, STH 167	49
---		700+20	STH 167	34
---		701+00	STH 167	34
---		1089+77	C.E., LT	71
---		1093+21	C.E., LT	47
---		1093+24	C.E., RT	30
---		1093+94	C.E., LT	24
---		1099+05	C.E., RT	115
---		1100+41	C.E., LT	32
---		1100+41	C.E., RT	29
---		1103+94	C.E., LT	31
---		1103+94	C.E., RT	30
---		1105+90	C.E., LT	36
---		1108+38	P.E., RT	18
---		---	FAIRWAY VIEW CT	33
---		1109+90	P.E., RT	17
---		1113+85	P.E., RT	51
---		1119+70	P.E., RT	8
---		1120+19	P.E., RT	14
---		1121+00	MAINLINE	28
1121+00		1130+00	MAINLINE, LT	733
1121+00		1130+00	MAINLINE, RT	1023
---		1130+43	P.E., LT	16
1130+00		1132+84.41	MAINLINE, LT	287
1130+00		1132+84.41	MAINLINE, RT	285
---		1132+84.41	MAINLINE	32
---		1147+42	P.E., RT	12
---		1149+33	C.E., RT	32
---		1156+24	P.E., RT	11
---		1159+41	C.E., LT	24
---		1161+77	P.E., RT	10
---		1164+29	C.E., RT	27
---		1165+18	C.E., LT	34
---		1166+41	C.E., RT	19
---		---	RICHFIELD SERVICE	39
---		---	C.E., LT, RICHFIELD SERV.	116
---		1168+50	C.E., RT	18
---		1168+77	P.E., RT	9
---		---	ELM STR	23
---		1172+14	C.E., RT	21
---		---	DEPOT STREET	32
---		1174+70	P.E., LT	9
---		1175+18	C.E., RT	22
---		1176+02	P.E., LT	23
---		1178+46	C.E., LT	44
1178+76		1180+07	MAINLINE, LT	136
---		1180+24	C.E., LT	34
---		---	RAILROAD STREET	67
1181+30	-	1183+58	COMMERCIAL LOT, RT	236
---		1184+14	P.E., LT	10
---		1184+75	P.E., LT	16
1185+44	-	1186+85	MAINLINE, LT	170
---		1187+44	P.E., RT	22
---		1188+58	C.E., RT	161
---		1190+96	C.E., RT	54
---		1193+83	C.E., LT	51
---		1194+05	MAINLINE	24
			TOTAL	8560

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

690.0250
SAWING CONCRETE

STATION	-	STATION	LOCATION	(LF)
---	-	---	BEECHWOOD INDUS. CT	2.5
---	-	1093+24	C.E., RT	5.0
---	-	1100+41	C.E., RT	3.0
---	-	1103+94	C.E., RT	2.0
---	-	---	FAIRWAY VIEW CT, C & G	5.0
---	-	1124+00	P.E., RT	17.0
---	-	1126+63	C & G, RT	2.5
---	-	1127+63	C & G, RT	3.0
---	-	1130+33	C & G, LT	3.0
---	-	1139+00	P.E., RT	23.0
---	-	1149+33	C.E., RT	6.0
---	-	1156+75	SIDEWALK, RT	2.5
---	-	1159+28	P.E.,RT	17.0
---	-	1161+10	P.E.,RT	9.0
---	-	1163+21	P.E., RT	13.0
---	-	1165+18	SIDEWALK, RT	3.0
---	-	1167+66	SIDEWALK, RT	4.0
---	-	1169+98	SIDEWALK, RT	3.0
---	-	1170+17	SIDEWALK, LT	3.0
---	-	1170+50	P.E., LT	13.0
---	-	1170+69	SIDEWALK, RT	2.0
---	-	1171+38	SIDEWALK, RT	4.0
---	-	1173+22	SIDEWALK, LT	2.0
---	-	1173+78	P.E., LT	10.0
---	-	1173+80	C & G, RT	3.0
---	-	1174+48	SIDEWALK, LT	3.0
---	-	1175+05	SIDEWALK, LT	3.0
---	-	1175+31	P.E., LT	6.0
---	-	1175+40	SIDEWALK, RT	4.0
---	-	1175+70	SIDEWALK, LT	9.0
---	-	1175+85	SIDEWALK, RT	5.0
---	-	1176+09	P.E.,RT	9.0
---	-	1176+25	SIDEWALK, LT	4.0
---	-	1176+72	C.E., LT	24.0
---	-	1176+79	SIDEWALK, RT	6.0
1176+84	-	1177+82	SIDEWALK, LT	98.0
---	-	1178+05	SIDEWALK, LT	3.0
---	-	1178+98	SIDEWALK, RT	2.0
---	-	1179+27	SIDEWALK, RT	5.0
---	-	1179+70	SIDEWALK, RT	3.0
---	-	1180+88	C.E.,RT	20.0
---	-	1181+43	SIDEWALK, LT	2.0
---	-	1182+34	SIDEWALK, LT	14.0
---	-	1183+80	SIDEWALK, LT	2.0
---	-	1184+33	SIDEWALK, LT	3.0
---	-	1184+55	SIDEWALK, LT	8.0
---	-	690+97	C & G RT, STH 167	3.0
---	-	691+48	C & G RT, STH 167	3.0
---	-	695+05	P.E.,RT, STH 167	40.0
			TOTAL	440

SPV.0060.02
PAVEMENT MARKING RAILROAD CROSSINGS

STATION	LOCATION	GROOVED PREFORMED THERMOPLASTIC EACH	COMMENTS
1182+59 - 1183+19	RT	1	STH 175
1189+28 - 1189+88	LT	1	STH 175
696+22"C" - 696+82"C"	RT	1	STH 167
EAST OF TRACKS	LT	1	STH 167
	TOTAL	4	

SPV.0060.09
AWSMS RETENTION POND OUTFALL STRUCTURE

STATION	LOCATION	(EACH)
1083+22	345' RT	1
	TOTAL	1

SPV.0090.08
PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC

STATION	LOCATION	YIELD LINE 18-INCH LF	COMMENTS
1151+48"B" - 1151+70"B"	RT	9	STH 175
1152+49"E" - 1153+30"E"	LT	21	STH 175
687+39"H" - 687+63"H"	RT	9	STH 167
688+66"D" - 688+83"D"	LT	9	STH 167
	TOTAL	48	

SPV.0090.01
PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP LINE

STATION	LOCATION	18-INCH (WHITE) LF	COMMENTS
1097+09	RT	47	STH 175
99+52"HU"	RT	37	HUBERTUS RD
100+32"HU"	LT	38	HUBERTUS RD
1097+83	LT	43	STH 175
1108+25	LT	27	FAIRWAY VIEW CT
1127+00	LT	17	SKYLINE DR
1127+25	RT	38	REFLECTIONS DR
1181+69	RT	27	RAILROAD ST
	TOTAL	274	

PAVEMENT MARKING CROSSWALK

STATION	LOCATION	SPV.0090.03 GROOVED PREFORMED THERMOPLASTIC 6-INCH LF	SPV.0090.07 GROOVED PREFORMED THERMOPLASTIC 24-INCH LF	COMMENTS
99+56"HU"	RT & LT	146	--	HUBERTUS RD
1151+17"A"	RT & LT	--	72	STH 175 RAB
687+25"G"	RT & LT	--	73	STH 167 RAB
689+00"C"	RT & LT	--	80	STH 167 RAB
1153+00"E"	RT & LT	--	80	STH 175 RAB
1169+29	RT & LT	66	--	STH 175
1182+07	RT & LT	60	--	STH 175
	TOTAL	272	305	

PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS AND WORDS

STATION	LOCATION	SPV.0060.03 ARROWS TYPE 2 EACH	SPV.0060.04 ARROWS TYPE 3 EACH	SPV.0060.05 ARROWS TYPE 3R EACH	SPV.0060.06 WORDS EACH	COMMENTS
1094+80	RT	1	--	--	--	
1095+84	RT	--	--	--	1	ONLY
1096+89	RT	1	--	--	--	
1098+03	LT	1	--	--	--	
1099+04	LT	--	--	--	1	ONLY
1100+05	LT	1	--	--	--	
1109+45	LT	1	--	--	--	
1110+25	LT	--	--	--	1	ONLY
1111+05	LT	1	--	--	--	
1124+24	RT	2	--	--	--	
1125+02	RT	--	--	--	1	ONLY
1125+37	RT	--	--	--	1	ONLY
1125+80	RT	1	--	--	--	
1126+50	RT	1	--	--	--	
1127+78	RT	1	--	--	--	
1127+78	LT	1	--	--	--	
1128+57	RT	--	--	--	1	ONLY
1128+57	LT	--	--	--	1	ONLY
1129+37	RT	1	--	--	--	
1129+37	LT	1	--	--	--	
1151+60"B"	RT	--	--	--	1	YIELD
1151+60"B" - 1152+70"F"	--	--	4	--	--	RAB CIRCLE
1152+28"F"	LT	1	--	1	--	
1152+70"F"	LT	--	--	--	1	YIELD
1152+75"F"	LT	--	--	--	1	YIELD
100+52"HU"	LT	1	--	--	--	
100+96"HU"	LT	--	--	--	1	ONLY
101+40"HU"	LT	1	--	--	--	
688+70"D"	LT	--	--	--	1	YIELD
680+60"G"	RT	1	--	--	--	
681+42"G"	RT	--	--	--	1	ONLY
682+21"G"	RT	1	--	--	--	
683+63"G"	LT	1	--	--	--	ONLY
684+36"G"	LT	--	--	--	1	
687+44"H"	RT	--	--	--	1	YIELD
	TOTALS	20	4	1	15	

ABANDON WATER VAULT

STATION	LOCATION	SPV.0105.02 ABANDON EACH	SPV.0105.03 ABANDON EACH
1154+25	MAINLINE, 26' RT	1	---
1182+34	MAINLINE, 23' RT	---	1
	TOTAL	1	1

REMOVING AND REINSTALLING OVERHEAD SIGN SUPPORTS

STATION	LOCATION	SPV.0105.01 (S-66-235) LS
1096+70	RT	1
	TOTAL	1

CATEGORY 0050

STATION	- STATION	LOCATION	405.0100 * COLORING CONCRETE RED (CY)	602.0410 CONCRETE SIDEWALK 5-INCH (SF)
1151+35	1152+52	MAINLINE, LT	18.8	1217
1150+58	1151+54	MAINLINE, RT	17.9	1162
1152+92	1153+25	MAINLINE, LT	15.7	1019
1151+90	1153+21	MAINLINE, RT	19.6	1270
* ADDITIONAL QUANTITIES SHOWN		TOTAL	72.0	4668

CATEGORY 0050

STATION	LOCATION	405.0100 * COLORING CONCRETE RED (CY)	602.0420 CONCRETE SIDEWALK 7-INCH (SF)
1151+40	MAINLINE, LT	1.4	66
1151+26	MAINLINE, RT	1.3	61
1152+31	MAINLINE, LT	1.3	61
1151+54	MAINLINE, RT	1.3	60
1152+09	MAINLINE, RT	1.3	61
1152+90	MAINLINE, LT	1.4	63
1153+18	MAINLINE, LT	1.3	61
1152+93	MAINLINE, RT	1.4	64
	TOTAL	10.7	497

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

NOTE: ALL ITEMS ARE CATEGORY 0010, UNLESS OTHERWISE NOTED.

CATEGORY 0020
LIGHTING SYSTEM ITEMS

650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (I.D. 3360-09-70)
654.0230 CONCRETE CONTROL CABINET BASES TYPE L30
655.0640 ELECTRICAL WIRE LIGHTING 1 AWG
656.0400 ELECTRICAL SERVICE MAIN LUGS ONLY METER PEDESTAL (I.D. 3360-09-70)
659.0802 PLAQUES SEQUENCE IDENTIFICATION
659.2230 LIGHTING CONTROL CABINETS 240/480 30 - INCH
SPV.0105.05 LIGHTING SYSTEM INTEGRATOR
SPV.0105.06 LIGHTING SYSTEM SURVEY

SYSTEM	LOCATION	650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (I.D. 3360-09-70) LS	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EACH	655.0640 ELECTRICAL WIRE LIGHTING 1 AWG LF	656.0400 ELECTRICAL SERVICE MAIN LUGS ONLY METER PEDESTAL (I.D. 3360-09-70) LS	659.0802 PLAQUES SEQUENCE IDENTIFICATION EACH	659.2230 LIGHTING CONTROL CABINETS 240/480 30 - INCH EACH	SPV.0105.05 LIGHTING SYSTEM INTEGRATOR LS
HL-66-AH	SE QUADRANT STH 175 AND 167 ROUNDABOUT	1	1	18	1	5	1	1
	TOTAL (0020)	1	1	18	1	5	1	1

PLAQUE TEXT HL-66-AH
STH 175 / STH 167
480 VAC WARNING DECAL (METER PEDESTAL AND CABINET DOOR)

CATEGORY 0020
LIGHTING PULL BOX QUANTITIES

653.0140 PULL BOXES STEEL 24x42-INCH
655.0615 ELECTRICAL WIRE LIGHTING 10 AWG (GROUNDING WIRE)

SYSTEM	LOCATION	LABEL	653.0140 PULL BOX 24x42 EACH	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	COMMENTS
HL-66-AH	690+00, 30' RT	LPB101	1	15	STH 167
HL-66-AH	1151+00, 40' RT	LPB102	1	20	STH 175
HL-66-AH	1151+20, 45' LT	LPB103	1	40	STH 175
HL-66-AH	690+00, 08' LT	LPB104	1	90	STH 167
HL-66-AH	690+00, 35' LT	LPB105	1	90	STH 167
HL-66-AH	1153+25, 100' RT	LPB106	1	60	STH 175
HL-66-AH	1153+45, 15' RT	LPB107	1	155	STH 175
	TOTAL (0020)		7	470	

CATEGORY 0020
LIGHTING BRANCH CIRCUIT CONDUIT

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH

SYSTEM	LOCATION TO LOCATION	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
HL-66-AH	LIGHTING CONTROL CABINET (HL-66-AH) TO LPB 101	--	45
HL-66-AH	LPB101 TO POLE AAH1	50	
HL-66-AH	POLE AAH1 TO POLE BAH1	170	--
HL-66-AH	POLE BAH1 TO STUBOUT EAST	25	--
HL-66-AH	LPB101 TO POLE BAH2	130	--
HL-66-AH	POLE BAH2 TO POLE AAH2	60	--
HL-66-AH	POLE AAH2 TO LPB 102	15	--
HL-66-AH	LPB 102 TO POLE BAH3	140	--
HL-66-AH	POLE BAH3 TO POLE AAH3	200	--
HL-66-AH	POLE AAH3 TO STUBOUT SOUTH	25	--
HL-66-AH	LPB 102 TO LPB 103	--	90
HL-66-AH	LPB 103 TO POLE EAH1	100	--
HL-66-AH	POLE EAH1 TO POLE FAH1	160	--
HL-66-AH	POLE FAH1 TO STUBOUT SOUTH	25	--
HL-66-AH	LPB 103 TO POLE FAH2	40	--
HL-66-AH	POLE FAH2 TO POLE EAH2	100	--
HL-66-AH	POLE EAH2 TO POLE FAH3	190	--
HL-66-AH	POLE FAH3 TO POLE EAH3	170	--
HL-66-AH	POLE EAH3 TO STUBOUT WEST	25	--
HL-66-AH	LPB 101 TO LPB 104	--	40
HL-66-AH	LPB 104 TO LPB 105	--	30
HL-66-AH	LPB 105 TO POLE CAH1	80	--
HL-66-AH	POLE CAH1 TO POLE DAH1	170	--
HL-66-AH	POLE DAH1 TO STUBOUT EAST	25	--
HL-66-AH	LPB 105 TO POLE DAH2	95	--
HL-66-AH	POLE DAH2 TO POLE CAH2	80	--
HL-66-AH	POLE CAH2 TO LPB 106	70	--
HL-66-AH	LPB 106 TO POLE DAH3	110	--
HL-66-AH	POLE DAH3 TO POLE CAH3	170	--
HL-66-AH	POLE CAH3 TO STUBOUT NORTHEAST	25	--
HL-66-AH	LPB 106 TO LPB 107	--	90
HL-66-AH	LPB 107 TO POLE GAH1	10	--
HL-66-AH	POLE GAH1 TO POLE HAH1	60	--
HL-66-AH	POLE HAH1 TO POLE GAH2	170	--
HL-66-AH	POLE GAH2 TO POLE HAH2	160	--
HL-66-AH	POLE HAH6 TO STUBOUT WEST	25	--
HL-66-AH	LPB 107 TO POLE HAH3	160	--
HL-66-AH	POLE HAH3 TO POLE GAH3	190	--
HL-66-AH	POLE GAH3 TO STUBOUT NORTHEAST	25	--
	TOTAL (0020)	**3,250**	**295**

CATEGORY 0020
LIGHT POLE QUANTITIES
240/480 VAC

654.0105	CONCRETE BASES TYPE 5
655.0610	ELECTRICAL WIRE LIGHTING 12 AWG
657.0255	TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE
657.0322	POLES TYPE 5-ALUMINUM
657.0610	LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT
657.0715	LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT
659.1125	LUMINAIRES UTILITY LED C

SYSTEM	STATION	OFFSET	ITEM	654.0105 CONCRETE BASES TYPE 5 EACH	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	657.0715 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
HL-66-AH	690+45	35' RT	LP	1	117	1	1	1	--	1
HL-66-AH	692+00	30' RT	LP	1	117	1	1	1	--	1
HL-66-AH	688+85	55' RT	LP	1	144	1	1	--	1	1
HL-66-AH	1151+05	42' RT	LP	1	144	1	1	--	1	1
HL-66-AH	1149+73	30' RT	LP	1	117	1	1	1	--	1
HL-66-AH	1147+75	22' RT	LP	1	117	1	1	1	--	1
HL-66-AH	1148+60	40' LT	LP	1	144	1	1	--	1	1
HL-66-AH	1150+15	45' LT	LP	1	144	1	1	--	1	1
HL-66-AH	1151+55	45' LT	LP	1	144	1	1	--	1	1
HL-66-AH	687+10	35' RT	LP	1	144	1	1	--	1	1
HL-66-AH	685+20	30' RT	LP	1	117	1	1	1	--	1
HL-66-AH	683+50	30' RT	LP	1	117	1	1	1	--	1
HL-66-AH	684+25	25' LT	LP	1	117	1	1	1	--	1
HL-66-AH	685+85	30' LT	LP	1	117	1	1	1	--	1
HL-66-AH	1153+05	27' LT	LP	1	144	1	1	--	1	1
HL-66-AH	1153+35	15' RT	LP	1	144	1	1	--	1	1
HL-66-AH	1154+95	15' LT	LP	1	144	1	1	--	1	1
HL-66-AH	1156+40	34' LT	LP	1	144	1	1	--	1	1
HL-66-AH	1156+10	35' RT	LP	1	117	1	1	1	--	1
HL-66-AH	1154+40	75' RT	LP	1	117	1	1	1	--	1
HL-66-AH	1152+75	114' RT	LP	1	144	1	1	--	1	1
HL-66-AH	689+20	40' LT	LP	1	144	1	1	--	1	1
HL-66-AH	690+85	40' LT	LP	1	117	1	1	1	--	1
HL-66-AH	692+50	35' LT	LP	1	117	1	1	1	--	1
TOTAL (0020)				**24**	**3,132**	**24**	**24**	**12**	**12**	**24**

CATEGORY 0020
LIGHTING WIRE QUANTITIES
240/480 VAC 3-WIRE ISOLATED NEUTRAL SYSTEM

655.0625 ELECTRICAL WIRE LIGHTING 6 AWG

SYSTEM	NETWORK	LOCATION TO LOCATION	DISTANCE	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF
HL-66-AH	A/B/N/G	LIGHT CONTROL CABINET (HL-66-AH) TO LPB 101 TO POLE AAH1	90	360
HL-66-AH	A/B/N/G	POLE AAH1 TO POLE BAH1	180	720
HL-66-AH	A/B/N/G	POLE AAH1 TO LPB101 TO POLE BAH2	190	760
HL-66-AH	A/B/N/G	POLE BAH2 TO POLE AAH2	70	280
HL-66-AH	A/B/N/G	POLE AAH2 TO LPB 102 TO POLE BAH3	165	660
HL-66-AH	A/B/N/G	POLE BAH3 TO POLE AAH3	255	1020
HL-66-AH	E/F/N/G	LIGHT CONTROL CABINETE (HL-66-AH) TO LPB 102 TO LPB 103 TO POLE FAH2	450	1800
HL-66-AH	E/F/N/G	POLE FAH2 TO LPB 103 TO POLE EAH1	150	600
HL-66-AH	E/F/N/G	POLE EAH1 TO POLE FAH1	160	640
HL-66-AH	E/F/N/G	POLE FAH2 TO POLE EAH2	100	400
HL-66-AH	E/F/N/G	POLE EAH2 TO POLE FAH3	200	800
HL-66-AH	E/F/N/G	POLE FAH3 TO POLE EAH3	180	720
HL-66-AH	C/D/N/G	LIGHT CONTROL CABINET (HL-66-AH) TO LPB 101 TO LPB 104 TO LPB 105 TO POLE CAH1	180	720
HL-66-AH	C/D/N/G	POLE CAH1 TO POLE DAH1	180	720
HL-66-AH	C/D/N/G	POLE CAH1 TO LPB 105 TO POLE DAH2	165	660
HL-66-AH	C/D/N/G	POLE DAH2 TO POLE CAH2	90	360
HL-66-AH	C/D/N/G	POLE CAH2 TO LPB 106 TO POLE DAH3	190	760
HL-66-AH	C/D/N/G	POLE DAH3 TO POLE CAH3	180	720
HL-66-AH	G/H/N/G	LIGHT CONTROL CABINET (HL-66-AH) TO LPB 104 TO LPB 105 TO LPB 106 TO LPB 107 TO POLE GAH1	300	1200
HL-66-AH	G/H/N/G	POLE GAH1 TO POLE HAH1	70	280
HL-66-AH	G/H/N/G	POLE HAH1 TO POLE GAH2	180	720
HL-66-AH	G/H/N/G	POLE GAH2 TO POLE HAH2	170	680
HL-66-AH	G/H/N/G	POLE GAH1 TO LPB 107 TO POLE HAH3	170	680
HL-66-AH	G/H/N/G	POLE HAH3 TO POLE GAH3	190	760
		TOTAL (0020)		**17,020**

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
3360-09-21		
FEDERAL PROJECT NUMBER	4.01	

PLAT OF RIGHT-OF-WAY REQUIRED FOR

STH 175
BEECHWOOD INDUSTRIAL COURT TO POLK STREET

STH 175 WASHINGTON CO.

CONSTRUCTION PROJECT NUMBER
3360-09-70

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	℄
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		

CURVE DATA

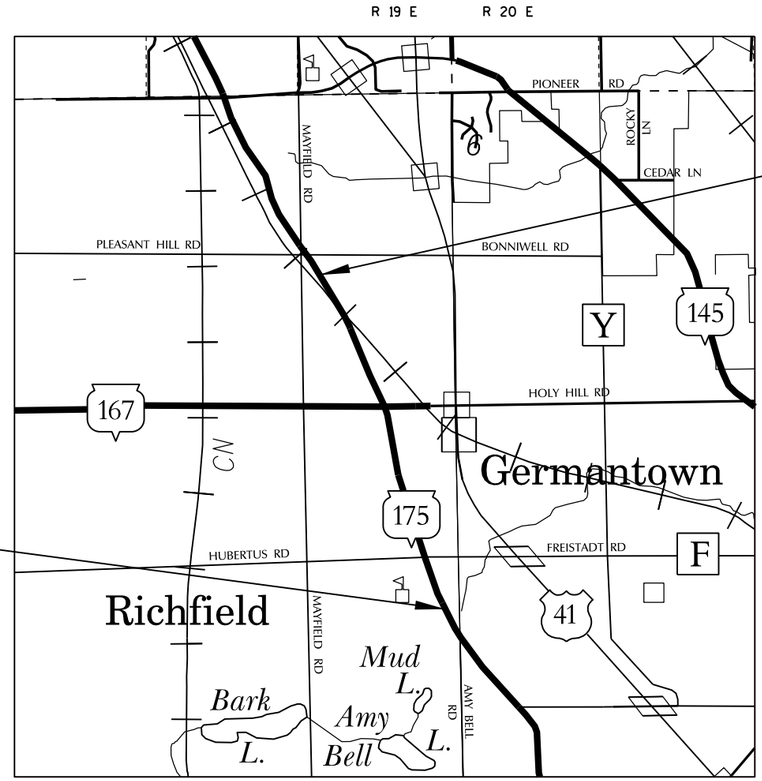
LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⌀ (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	● (SET)	PROPERTY LINE	
R/W STANDARD	▲ (SET)	LOT & TIE LINES	
SIGN	ISIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWB20	QUARTER LINE	
PARCEL NUMBER	102	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-1	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	W		
GAS	G		
TELEPHONE	T		
OVERHEAD	OH		
TRANSMISSION LINES ELECTRIC	E		
CABLE TELEVISION	TV		
FIBER OPTIC	FO		
SANITARY SEWER	SAN		
STORM SEWER	SS		
	NON COMPENSABLE	COMPENSABLE	
POWER POLE			
TELEPHONE POLE			
TELEPHONE PEDESTAL			
ELECTRIC TOWER			



BEGIN RELOCATION ORDER
STA. 1085+67.77
1119' SOUTH OF THE NORTH LINE AND 757' WEST OF THE EAST LINE OF THE NORTHEAST 1/4 OF SEC 24, TOWNSHIP 9 NORTH, RANGE 19 EAST.

END RELOCATION ORDER
1257' NORTH OF THE SOUTH LINE AND 1110' EAST OF THE WEST LINE OF THE NORTHWEST 1/4 OF SEC 12, TOWNSHIP 9 NORTH, RANGE 19 EAST.

NOTES

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WASHINGTON COUNTY ZONE, NAD 83 (1997) ADJUSTMENT AND ARE REFERENCED TO HARN POINTS JACKSON GPS, RICHFIELD E. GPS, AND GERMANTOWN N. GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WIS. D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

N

LAYOUT
SCALE 0 1.00 MI.

TOTAL NET LENGTH OF CENTERLINE = 2.070 MI.

REVISION DATE
AUGUST 6, 2012
SEP. 25, 2012
FEB. 22, 2013
JUNE 11, 2013
JAN. 30, 2014
MAY 20, 2014

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED FOR THE DEPARTMENT

DATE: 10/14/11 Robert J. Duffek (Signature)

E

FILE NAME : J:\projects\d2_r_336009175\33600921\040101_rt.dgn PLOT DATE : 20-MAY-2014 13:28 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 100.000000:1.000000 WISDOT/CADDS SHEET 50

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACREAGE COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILIBLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

NOTE: *=CALCULATED

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PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	TOTAL ACRES	R/W REQUIRED ACRES NEW	R/W REQUIRED ACRES EXISTING	R/W REQUIRED ACRES TOTAL	TOTAL REMAINING ACRES	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES	PARCEL NUMBER
1	4.04	DENNIS F. & KATHLEEN A. FINK	TLE						0.070		1
2	4.04	WEYER 2 LIMITED PARTNERSHIP	FEE,TLE	1.875	0.043		0.043	1.832	0.117		2
3	4.04	LUBUS 1 MANAGEMENT COMPANY LLC.	FEE,TLE	3.410	0.043		0.043	3.367	0.093		3
4(4)	4.04	ELIMINATED									4
5(4)	4.04	MAPLE GROVE INVESTMENTS, LLC.	FEE,TLE	2.036*	0.016	0.030	0.046	1.990	0.010		5
6(4)	4.04	FIRST NATIONAL BANK OF HARTFORD	FEE,TLE	1.700	0.010		0.010	1.690	0.015		6
7	4.04	JOYCE WEYER FAMILY LLP. & JW'S 3, LLC.	TLE						0.006		7
8	4.05	WEYER 1 LIMITED PARTNERSHIP	FEE,TLE	13.040	0.146	1.091	1.237	11.803	0.180		8
9	4.05	WEYER 1 LIMITED PARTNERSHIP	FEE,TLE	1.000	0.013	0.061	0.074	0.926	0.009		9
10	4.05	FAIRWAY FIELD LLC.	TLE						0.055		10
11	4.05	KAUL OIL COMPANY, A WISCONSIN CORPORATION	FEE,TLE	1.340	0.041	0.283	0.324	1.016	0.200		11
12	4.05	NORBERT WEYER	FEE,TLE	0.500	0.013	0.063	0.076	0.424	0.045		12
13(3)	4.05	WEYER 3 LIMITED PARTNERSHIP	FEE,TLE	0.480	0.000	0.040	0.040	0.440	0.039		13
14	4.05	SHEPHERD OF THE HILLS LUTHERAN CHURCH IN AMERICA	FEE,TLE	4.780	0.030	0.534	0.564	4.216	0.488		14
15	4.05	ANDREW J. GROSS	FEE,TLE	1.270	0.073	0.209	0.282	0.988	0.214		15
16(4)	4.05	HSBC BANK	FEE,TLE	1.190	0.023	0.116	0.139	1.051	0.115		16
17	4.06	ZIMMERMANN'S KETTLE HILLS LIMITED PARTNERSHIP	FEE,TLE	15.060	0.068	0.537	0.604	14.455	0.285		17
18	4.06	WEYER 3 LIMITED PARTNERSHIP	TLE						0.025		18
19	4.06	KOHL TRUST	FEE,TLE	7.770	0.004	0.529	0.532	7.237	0.404		19
20	4.06	THOMAS A. PUESTOW	FEE,TLE	1.780	0.060	0.135	0.195	1.585	0.082		20
21	4.06	MARIAN C. FASSBENDER	FEE,TLE	1.260	0.059	0.088	0.146	1.113	0.053		21
22(4)	4.06	MARIAN C. FASSBENDER	FEE,TLE	2.660	0.135	0.215	0.351	2.309	0.068		22
23(4)	4.06	BONNIE S. WIRTH	FEE,TLE	0.800	0.043	0.091	0.133	0.666	0.038		23
24	4.07	CLIFFORD H. & JEWEL J. BUTZKE	FEE,TLE	0.616*	0.001	0.000	0.001	0.615	0.008		24
25	4.07	LORRAINE ANDREWS	FEE,TLE	0.390	0.014	0.000	0.014	0.376	0.014		25
26	4.07	REFLECTIONS RICHFIELD	FEE,TLE	0.470	0.014	0.000	0.014	0.456	0.023		26
27	4.07	J.C. WERNER PROPERTIES, LLC	TLE						0.013		27
28(4)	4.07,4.10	REFLECTIONS RICHFIELD	FEE,TLE	23.350	0.025	0.000	0.025	23.325	0.182		28
29	4.08	ALFRED J. SCHAFFHAUSER JR. & MARY A. SCHAFFHAUSER	FEE,TLE	10.000	0.430	0.384	0.814	9.186	0.063		29
30	4.08	ELIMINATED									30
31(4)	4.08,4.09	RICHFIELD SCHOOL DISTRICT NO. 1	FEE,TLE	9.340	0.208	0.601	0.809	8.531	0.377		31
32	4.08	JEROME J. BRUKBACHER & RETA M. PREPSTER	FEE,TLE	4.810	0.212	0.000	0.212	4.598	0.006		32
33	4.08	ESTHER I. M. BUTTKE TRUST	FEE,TLE	6.450	0.109	0.315	0.424	6.026	0.087		33
34	4.08	KEVIN M. POLZIN	FEE,TLE	1.550	0.000	0.114	0.114	1.436	0.062		34
35	4.08	PETRO PROPERTIES, LLC	TLE						0.073		35
36(7)	4.09	LOGGERS PARK LLC.	FEE,PLE,TLE	15.510	0.071	0.000	0.071	15.439	0.403	0.014	36
37	4.09	WILLIAM G. WOLF	FEE,TLE	4.940	0.149	0.000	0.149	4.791	0.255		37
38	4.09	THOMA TRUST	FEE,TLE	0.620	0.000	0.121	0.121	0.499	0.055		38
39(4)	4.09	JEFFREY S. & PAMELA J. KURTH	TLE						0.026		39
40	4.10	RICHARD AND BETTY WEIGEL TRUST DATED MAY 5, 1997	FEE,TLE	1.230	0.046	0.152	0.198	1.032	0.201		40
41	4.10	POINT WOLF, LLC.	TLE						0.002		41
42	4.10	GLENN A. & ARLENE E. WENDLER	FEE,TLE	3.000	0.042	0.125	0.167	2.833	0.056		42
43	4.10	JUSTINE MILLER REVOCABLE LIVING TRUST	FEE,TLE	2.280	0.069	0.000	0.069	2.211	0.032		43
44	4.10	MILLIS REAL ESTATE LEASING, LLC.	FEE,TLE	14.940	0.016	0.000	0.016	14.924	0.016		44
45	4.11,4.12	DANIEL R. & CAROL M. GOETZ	FEE,PLE,TLE	27.720	0.022	0.357	0.379	27.341	0.240	0.591	45
46	4.11	PIONEER BOWL INC.	PLE,TLE						0.006	0.278	46
47	4.11	STEVEN F. & CATHERINE GAUTHIER	PLE							0.035	47
48	4.11	GLENN K. SCHWARTZ REVOCABLE TRUST	FEE,TLE	0.460	0.000	0.095	0.095	0.365	0.051		48
49	4.11	DENNIS W. & MARYANN DUCHROW	TLE						0.049		49
50	4.11	PHILIP P. THOMA & PATRICIA S. GRINTJES	FEE,TLE	0.500	0.000	0.067	0.067	0.433	0.045		50

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NOTE: *=CALCULATED

**=TOTAL ACREAGE AFTER INITIAL FEE TAKING.

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PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	TOTAL ACRES	R/W REQUIRED ACRES NEW	R/W REQUIRED ACRES EXISTING	R/W REQUIRED ACRES TOTAL	TOTAL REMAINING ACRES	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES	PARCEL NUMBER
51(2)	4.11	1798 HIGHWAY 176 LLC	FEE,TLE	1.356*	0.000	0.039	0.039	1.317	0.108		51
52	4.11	RICHFIELD PROPERTIES, LLC.	FEE,TLE	0.575*	0.000	0.016	0.016	0.559	0.041		52
53	4.11	THOMA TRUST	FEE,TLE	0.459*	0.000	0.013	0.013	0.446	0.229		53
54	4.11	JETSCO, LLC.	FEE,TLE	0.351*	0.000	0.019	0.019	0.332	0.044		54
55	4.11	ALAN D. & LINDA A. OLSAN	FEE,TLE	0.170*	0.000	0.010	0.010	0.160	0.011		55
56	4.11	LINDA M. HORNING	FEE,TLE	0.164*	0.000	0.011	0.011	0.153	0.015		56
57	4.11	NANCY J. BASTIAN	FEE,TLE	0.328*	0.000	0.011	0.011	0.317	0.001		57
58(2)	4.12	SANDRA C. HENDERSON	TLE						0.020		58
59(2)	4.12	FREDRICK T. SPRINGER	TLE						0.028		59
60(5)	4.12	DANIEL R. & CAROL M. GOETZ	FEE,TLE	0.307*	0.001	0.000	0.001	0.306	0.026		60
61(2)	4.12	WALTER L. KRAINER JR. & VALERIE NAPIERALA	TLE						0.009		61
62(5)	4.12	BETTY JANE HOLDINGS LLC	FEE,TLE	0.197*	0.001	0.000	0.001	0.196	0.014		62
63(2)	4.12	FORWARD INVESTORS LLC	TLE						0.024		63
64(5)	4.12	DANIEL R. GOETZ	FEE,PLE,TLE	0.20	0.001	0.000	0.001	0.199	0.007	0.082	64
65	4.12	LES GAULKE JR.	TLE						0.001		65
66(2)	4.12	TODD D. & VICTORIA L. REINKE	FEE,TLE	0.600	0.000	0.022	0.022	0.578	0.002		66
67	4.12	SHEKINAH PROPERTIES LLC	TLE						0.001		67
68(5)	4.12	TRANS INTERNATIONAL COMPANY, INC.	FEE,TLE	0.500	0.004	0.000	0.004	0.496	0.033		68
69(5)	4.12	LANCE QUIGLEY	FEE,TLE	0.162*	0.002	0.000	0.002	0.160	0.027		69
70(5)	4.12	HOWARD P. & SHIRLEY M. KRAETSCH	FEE,TLE	0.096*	0.001	0.000	0.001	0.095	0.013		70
71(5)	4.12	PATRICIA BORLEN E.T.A.L.	FEE,TLE	0.05	0.001	0.000	0.001	0.049	0.009		71
72(5)	4.12	ANDREW P & LINDA M. STEGEMEYER	FEE,TLE	0.10	0.002	0.000	0.002	0.098	0.015		72
73(2)	4.12	PETER F. & PATRICIA MINOR DUBOIS	FEE,TLE	0.500	0.004	0.000	0.004	0.496	0.043		73
74(2)	4.13	WAYNE WARTGOW & DAVID KEMPFER	TLE						0.012		74
75(3)	4.13	CRADEN MANUFACTURING COMPANY, INC.	TLE						0.003		75
76(3)	4.13	LAURA OSWALD REVOCABLE TRUST	TLE						0.012		76
77(3)	4.13	WOLF BROTHERS FUEL, INC.	TLE						0.027		77
78(6)	4.13	RICHFIELD VOLUNTEER FIRE DEPARTMENT	FEE	0.080*	0.080	0.000	0.080	0.000			78
79	4.13	DAWN M. BRICCO-ZYCHOWSKI	FEE,TLE	1.150	0.000	0.029	0.029	1.121	0.068		79
80	4.13	RICHFIELD VOLUNTEER FIRE COMPANY	FEE,TLE	4.930	0.020	0.329	0.349	4.581	0.153		80
81	4.13	PAUL E. & KATHLEEN BERNARD	FEE,TLE	9.140	0.103	0.190	0.293	8.847	0.068		81
82(4)	4.07	REFLECTIONS RICHFIELD	FEE,TLE	0.563	0.001	0.000	0.001	0.562	0.050		82
83	4.07	HARTFORD SAVINGS BANK	TLE						0.022		83
84(4)	4.09	DANIEL J. SHIPMAN	TLE						0.040		84
85(4)	4.09	CALVIN L. & ARLENE SCHNIEDER	TLE						0.008		85
86(5)	4.12	JAMES A. HEYDEN	PLE,TLE						0.011	0.001	86
87(5)	4.12	DAWG HOUSE ENTERPRISES LLC.	FEE,TLE	0.197*	0.001	0.000	0.001	0.196	0.011		87
88(5)	4.12	HOWARD P. & SHIRLEY KRAETSCH	FEE,TLE	0.130*	0.001	0.000	0.001	0.129	0.012		88
89(5)	4.12	DANIEL R. & CAROL M. GOETZ	FEE,TLE	0.08	0.001	0.000	0.001	0.079	0.007		89
90(5)	4.12	ESTHER KAINZ	FEE	0.10	0.001	0.000	0.001	0.099	0.007		90
91(5)	4.12	EARL W. KLIPPEL JR. & MARLENE M. AUMANN	FEE,TLE	0.19	0.002	0.000	0.002	0.188	0.017		91
211(7)	4.05	KAUL OIL COMPANY, A WISCONSIN CORPORATION	FEE	1.016**	0.027	0.000	0.027	0.989			211
212(7)	4.05	NORBERT WEYER	FEE	0.424**	0.045	0.000	0.045	0.379			212
218(4)	4.06	WEYER 3 LIMITED PARTNERSHIP	TLE						0.026		218
237(7)	4.09	WILLIAM G. WOLF	PLE							0.017	237
258(5)	4.12	SANDRA C. HENDERSON	FEE	0.197*	0.001	0.000	0.001	0.196			258
259(5)	4.12	FREDRICK T. SPRINGER	FEE	0.307*	0.001	0.000	0.001	0.306			259
261(5)	4.12	WALTER L. KRAINER JR. & VALERIE NAPIERALA	FEE,TLE	0.200*	0.001	0.000	0.001	1.121	0.004		261
263(5)	4.12	FORWARD INVESTORS LLC	FEE,TLE	0.68	0.005	0.000	0.005	0.675	0.027		263
265(5)	4.12	LES GAULKE JR.	TLE						0.016		265
267(5)	4.12	SHEKINAH PROPERTIES LLC	FEE,TLE	0.38	0.003	0.000	0.003	0.377	0.020		267
273(5)	4.12	PETER F. & PATRICIA MINOR DUBOIS	FEE,TLE	0.500	0.004	0.000	0.004	0.496	0.001		273
UTILITY NUMBER											UTILITY NUMBER
100	4.04,4.05,4.07,4.08,4.09,4.10,4.11	AT&T WISCONSIN	ROR								100
101	4.04,4.05,4.06,4.07,4.08,4.09,4.10,4.11,4.13	WE ENERGIES ELECTRIC	ROR								101
102	4.06,4.07,4.08,4.10,4.12	WE ENERGIES GAS	ROR								102
103	4.07	CHARTER COMMUNICATIONS	ROR								103

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 175	CSM 3178	33'	1988
STH 175	CSM 4718	17'	1996
STH 175	CSM 3252	33'	1988
STH 175	CSM 4650	50'	1996
STH 175	CSM 2536	33'	1983
STH 175	TERRITORIAL ROAD RESERVATION	66'	1843
HUBERTUS ROAD	CSM 4650	VARIES	1996
HUBERTUS ROAD	CSM 4718	50'	1996
BEECHWOOD IND. COURT	CSM 3178	66'	1988

℄ BEECHWOOD INDUSTRIAL COURT
PI STA 57+74.27
N 115028.01
E 361434.07
PC STA 56+77.62
PT STA 58+69.35
DELTA -17°51'44"
D 9°18'59"
T 96.65'
L 191.73'
R 615.00'
LCH 190.95'
LCB N 81°39'00" E

VILLAGE

PI 57+74.27

PC 56+77.62

PT 58+69.35

(100) AT&T WISCONSIN
DOC. 181124
V. 136, P. 25
PCL. 2, PCL. 3,
PCL. 4, PCL 6

DOC. 523685
V. 974, P. 241
PCL. 2

DOC. 878622
PCL. 4

(101) WE ENERGIES ELECTRIC
DOC. 455490
V. 798, P. 260
PCL. 3

DOC. 523685
V. 974, P. 241
PCL. 2

NO RECORDED
EASEMENT
PCL. 6

DETAIL
NOT TO SCALE

(1) FINK
LOT 8
CSM 3252
V. 19, P. 142

TLE SLOPES

WEST PROJECT LIMITS

TLE SLOPES AND DRIVEWAY

(2) WEYER 2
LOT 1
CSM 3178
V. 18, P. 251

TLE SLOPES AND DRIVEWAY

SEE QUIT CLAIM DEED DOC. 1328274 AND ACCESS EASEMENT AGREEMENT DOC. 1323843

TLE SLOPES

(3) LUBUS 1
CSM 2536
V. 14, P. 2

OF

TLE DRIVEWAY

(5) MAPLE GROVE
PARCEL 4
CSM 4718
V. 32, P. 49

(6) FIRST NATIONAL BANK
PARCEL 3
CSM 4718
V. 32, P. 49

NORTH LINE OF CSM 2536

SOUTH LINE OF PARCEL 4 CSM 4718

N00°17'23"E

V16 LINE

NW1/4-NE1/4

NE1/4-NE1/4

WEST PROJECT LIMITS

R=SEC. LINE

SEC9090
N=115009.73
E=359855.23
CONC. MON. WITH
WASHINGTON COUNTY
BRASS CAP

T 9 N
R 19 E
24 13 24

HUBERTUS ROAD

PRW801 99+31.59 50'
PRW802 1096+78.52 50'
PRW803 76.96' 17.94' 32.06' 19.35' 28.91' 16.18' 10' N55°29'36"W

TLE SLOPES

DETAIL
NOT TO SCALE

PRW506 1093+72.91 50' 40'
PRW507 1094+13.04 50'
PRW801 1093+72.09 40'

S77°23'42"W

S77°23'48"W

50' TO ℄

SE COR. OF PARCEL 4 CSM 4718

℄ BEECHWOOD IND. COURT

N72°43'08"E

N27°40'30"W 186.14' 33.46' 183.09'

105' 15' 40' 55' 35' 265.26' 15' 100.29' 75' 15.05' 460' 535.26' 40'

49.59' 5'

N17°23'42"E

N17°19'11"W

℄ STH 175

1086 1088 1090 1092 1094 1096

33' 33' 33' 33' 33' 33'

SIGN

BEGIN RELOCATION ORDER
STA. 1085+67.77
N=114870.21
E=361721.37

PI 1085+67.77

STH 175 1088+03.80=
BEECHWOOD IND. CT. 60+00

STH 175 1097+43.79=
HUBERTUS RD. 100+00

50' 50' 50' 5' 326.01'

N89°21'51"W

M.S.L.

102

104

(7) JOYCE WEYER FAMILY L.L.P.

TLE DRIVEWAY

LOT 1
CSM 4650
V. 31, P. 192

TLE SLOPES

RICHFIELD

TOWNSHIP LINE

N00°05'29"E 2648.91'

VILLAGE OF RICHFIELD
VILLAGE OF GERMANTOWN

EAST PROJECT LIMITS

262.75' 40'

SEC9091
N=115056.59
E=362479.83
CONC. MON. WITH
WASHINGTON
COUNTY CAP

T 9 N
R 19 E
24 13 18 19

PRW800 1088+36.83 40'
22.93' 10.07' N34°41'42"E 7.00'

DETAIL
NOT TO SCALE

SEC9014
N=113313.68
E=362413.60
CONC. MON.
WITH S.C.WRPC
BRASS CAP

T 9 N
R 19 E
24 19

GN

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WASHINGTON COUNTY ZONE, NAD 83 (1997) ADJUSTMENT AND ARE REFERENCED TO HARN POINTS JACKSON GPS, RICHFIELD E. GPS, AND GERMANTOWN N. GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

REVISION DATE
AUGUST 6, 2012
SEP. 25, 2012
FEB. 22, 2013
JUNE 11, 2013
JAN. 30, 2014
MAY 20, 2014

DATE OCTOBER 14, 2011

GRID FACTOR N/A

SCALE. FEET
0 50 100

HWY: STH 175

COUNTY: WASHINGTON

STATE R/W PROJECT NUMBER 3360-09-21

CONSTRUCTION PROJECT NUMBER

PLAT SHEET 4.04

PS&E SHEET

E

4

SEC9090
N=116009.73
E=359855.23
CONC. MON. WITH
WASHINGTON COUNTY
BRASS CAP

SEC9077
N=118660.31
E=359867.34
CONC. MON. WITH
WASHINGTON
COUNTY CAP

1/4 LINE N00°15'42"E 2650.62'

VILLAGE OF RICHFIELD

WEST PROJECT LIMITS

TLE SLOPES AND DRIVEWAY

TLE SLOPES

WEYER 1

FAIRWAY VIEW COURT

FAIRWAY

OUTLOT 1

OUTLOT 2

FAIRWAY FIELD LLC

FIELDS

HSBC BANK

POOL

GROSS

WEYER 3

KAUL OIL

SHEPHERD OF THE HILLS

HUBERTUS ROAD

SW1/4-SE1/4

SE1/4-SE1/4

1/16 LINE N00°13'35"E

STH 175 1102

STH 175 1108+39.40=
FAIRWAY VIEW CT. 70+00

STH 175 1111+36.32=
1/16 LINE

PC 68+07.14

PT 69+18.96

PI 68+63.28

1095.50' TO 1/4 LINE

1/16 LINE=PL.

STH 175 1097+43.79=
HUBERTUS RD. 100+00

SEC9091
N=115980.59
E=362479.83
CONC. MON. WITH
WASHINGTON
COUNTY CAP

EAST PROJECT LIMITS

L1=S74°33'35"W
65.00'

DETAIL
NOT TO SCALE

BRICK FENCE POSTS

FILLER CAPS

CANOPY

GN

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 175	TERRITORIAL ROAD RESERVATION S.S. 66.1024	66'	1843
STH 175	FAIRWAY FIELDS	50'	2011
HUBERTUS ROAD	RICHFIELD TOWN ROAD RECORD	49.50'	1855

R FAIRWAY VIEW COURT
PI STA 68+63.28
N 117009.99
E 360910.99
PC STA 68+07.14
PT STA 69+18.96
DELTA 12°48'48"
D 11°27'33"
T 56.14'
L 111.82'
R 500.00'
LCH 111.58'
LCB N 84°16'09" E

(100) AT&T WISCONSIN
DOC. 293901
V. 434, P. 443
PCL. 11, 12, 13
14, 15 & 16

NO RECORDED
EASEMENT
PCL. 15

(101) WE ENERGIES ELECTRIC
DOC. 382356
V. 630, P. 494
PCL. 8

DOC. 420056
V. 711, P. 564
PCL. 8

DOC. 556138
V. 1061, P. 535
PCL. 11

DOC. 1239308
PCL. 14

NO RECORDED
EASEMENT
PCL. 15

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WASHINGTON COUNTY ZONE, NAD 83 (1997) ADJUSTMENT AND ARE REFERENCED TO HARN POINTS JACKSON GPS, RICHFIELD E. GPS, AND GERMANTOWN N. GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

REVISION DATE	DATE OCTOBER 14, 2011	SCALE: FEET	HWY: STH 175	STATE R/W PROJECT NUMBER 3360-09-21	PLAT SHEET 4.05	
AUGUST 6, 2012 JUNE 11, 2013 SEP. 25, 2012 JAN. 30, 2014 FEB. 22, 2013 MAY 20, 2014	GRID FACTOR N/A	0 50 100	COUNTY: WASHINGTON	CONSTRUCTION PROJECT NUMBER	PS&E SHEET	E

4

SEC9090
N=116009.73
E=359855.23
CONC. MON. WITH
WASHINGTON COUNTY
BRASS CAP

1/4 LINE
1325.31'

N00°15'42"E 2650.62'

SEC9077
N=118660.31
E=359867.34
CONC. MON. WITH
WASHINGTON
COUNTY CAP

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WASHINGTON COUNTY ZONE, NAD 83 (1997) ADJUSTMENT AND ARE REFERENCED TO HARN POINTS JACKSON GPS, RICHFIELD E. GPS, AND GERMANTOWN N. GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

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HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 175	TERRITORIAL ROAD RESERVATION S.S. 66.1024	66'	1843
STH 175	CSM 3698	50'	1991

(101) WE ENERGIES ELECTRIC
DOC. 417892
V. 706, P. 597
PCL. 17

DOC. 689994
V. 1500, P. 147
PCL. 17

DOC. 417891
V. 706, P. 593
PCL. 18

(102) WE ENERGIES GAS
NO RECORDED EASEMENT
PCL. 17

R STH 175
PI STA 1125+28.14
N 118648.22
E 360533.55
PC STA 1124+17.46
PT STA 1126+38.38
DELTA 8°50'13"
D 4°00'00"
T 110.68'
L 220.93'
R 1432.39'
LCH 220.71'
LCB N 13°20'20" W

SUBCURVE CL56
L=113.52'
R=1432.39'
LC=113.49'
LCB=N15°29'14"W

PARCEL 1
CSM 3698
V.23, P.115

(17) ZIMMERMANN'S KETTLE HILLS

(18) WEYER 3

(218) WEYER 3

(19) KOHL TRUST

(20) PUESTOW

(21) FASSBENDER

(22) FASSBENDER

(23) WIRTH

VILLAGE OF RICHFIELD

NW1/4-SE1/4

1/16 LINE=PL.

S89°20'03"E

S89°19'09"E

S89°36'56"E

S89°18'15"E SEC LINE=PL.

N89°18'15"W

N89°19'09"W

TLE SLOPES AND DRIVEWAY

TLE SLOPES

NOTE: TLE DOES NOT INCLUDE GOLF COURSE PATH.

GOLF COURSE

GOLF GREEN

STH 175 1111+36.32= 1/16 LINE

SEC LINE=PL.

STH 175 1125+30.98= 1/4 LINE

PI 1125+28.14

612.26'

669.71' TO R 664.97' TO PL

720.00'

114.90' TO SEC. LINE

SUBCURVE CL56

PC 1124+17.46

PRM827 1118+46.05

PRM828 1112+75.22

PRM829 1111+52.55

PRM830 1123+44.59

PRM831 1125+18.46

PRM832 1112+21.14

PRM833 1111+24.44

PRM834 1111+52.55

PRM820 1113+19.15

PI 1113+19.15 N=117486.83 E=360302.28

S19°26'05"E 196.76'

S44°04'01"E 44.50'

S26°14'35"E 87.61'

N10°39'16"W 23.50'

N17°19'11"W

N19°10'23"W

N17°45'27"W

N06°43'43"W 115.00'

N12°48'59"W

N23°34'09"W

N28°46'55"W

DETAIL NOT TO SCALE

N35°30'45"E 37.82' TO BI DC. 46.17' TO COR.

1/16 LINE NO0°13'35"E 2621.51'

REVISION DATE AUGUST 6, 2012 JUNE 11, 2013 SEP. 25, 2012 JAN. 30, 2014 FEB. 22, 2013 MAY 20, 2014	DATE OCTOBER 14, 2011	SCALE, FEET 0 50 100	HWY: STH 175	STATE R/W PROJECT NUMBER 3360-09-21	PLAT SHEET 4.06
	GRID FACTOR N/A		COUNTY: WASHINGTON	CONSTRUCTION PROJECT NUMBER 3360-09-70	PS&E SHEET E

FILE NAME : J:\projects\d2_r_336009175\33600921\040406_rp.dgn PLOT DATE : 20-MAY-2014 13:28 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 100.000000:1.000000

4

SEC9077
N=118660.31
E=359867.34
CONC. MON. WITH WASHINGTON COUNTY CAP

OTR16
N=121308.77
E=359872.79
CONC. MON. WITH BRASS D.O.T. CAP

1/4 LINE N00°07'03"E 1324.23' 2648.47'

1/16 LINE=PL. S89°19'30"E 454.60'

STH 175 1138+74.97= 1/16 LINE

STH 175 1125+30.98= 1/4 LINE

SEC LINE=PL.

R SKYLINE DRIVE

R REFLECTIONS DRIVE

R STH 175

SW1/4-NE1/4

VILLAGE OF RICHFIELD

KETTLE MORAINE HEIGHTS BLOCK 4

LOT 9 (24) BUTZKE

(25) ANDREWS

(26) REFLECTIONS RICHFIELD

LOT 1 CSM 6302 V. 47, P. 202

(27) JC WERNER PROPERTIES

LOT 6

LOT 8

LOT 9

LOT 10

KETTLE MORAINE HEIGHTS BLOCK 1

N11°17'29"E

S61°23'55"E

N58°30'43"E

TLE DRIVEWAY

TLE SLOPES

TLE SLOPES AND DRIVEWAY

DETAIL NOT TO SCALE

WELL

WELL INSIDE SHED

OUTLOT 1

OUTLOT 2

OUTLOT 3

45'X5' TLE FOR DRIVEWAY

(28) REFLECTIONS RICHFIELD

CURVE TLE82
L=52.16'
R=60.00'
LC=50.53'
LCB=N 15°59'02" E

CURVE TLE83
L=28.91'
R=40.00'
LC=28.28'
LCB=N 29°37'31" W

LOT 1 CSM 6357 V. 48, P. 47

(83) HARTFORD SAVINGS BANK

(82) REFLECTIONS RICHFIELD LOT 58

REFLECTIONS VILLAGE

SEC9078
N=118628.48
E=362488.66
CONC. MON. WITH VILLAGE OF GERMANTOWN BRASS CAP

R	STH 175
PI STA	1125+28.14
N	118648.22
E	360533.55
PC STA	1124+17.46
PT STA	1126+38.38
DELTA	8°50'13"
D	4°00'00"
T	110.68'
L	220.93'
R	1432.39'
LCH	220.71'
LCB	N 13°20'20" W

PI 702+61.45
Y=118820.61
X=360507.53

STH 175 1127+02.20= SKYLINE REFLECTIONS DR. 702+60.41

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 175	KETTLE MORAINE HEIGHTS	50'	1966
STH 175	REFLECTIONS VILLAGE	50'	2010
STH 175	DOC. 1234457	50'	2009
SKYLINE DRIVE	REFLECTIONS VILLAGE	66'	1966
REFLECTIONS DRIVE	REFLECTIONS VILLAGE	50'	2010

(100) AT&T WISCONSIN
DOC. 287979 V. 420, P. 493 PCL. 27
DOC. 1246853 PCL. 82

(101) WE ENERGIES ELECTRIC
DOC. 416929 V. 704, P. 674 PCL. 24
DOC. 416447 V. 703, P. 662 PCL. 24
DOC. 288706 V. 422, P. 274 PCL. 24
DOC. 1246853 PCL. 82
DOC. 287979 V. 420, P. 493 PCL. 27

(102) WE ENERGIES GAS
DOC. 1246853 PCL. 82

(103) CHARTER COMMUNICATIONS
DOC. 1246853 PCL. 82

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WASHINGTON COUNTY ZONE, NAD 83 (1997) ADJUSTMENT AND ARE REFERENCED TO HARN POINTS JACKSON GPS, RICHFIELD E. GPS, AND GERMANTOWN N. GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

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REVISION DATE JUNE 11, 2013 AUGUST 6, 2012 JAN. 30, 2014 SEP. 25, 2012 MAY 20, 2014 FEB. 22, 2013	DATE OCTOBER 14, 2011	SCALE. FEET 0 50 100	HWY: STH 175
	GRID FACTOR N/A		COUNTY: WASHINGTON

STATE R/W PROJECT NUMBER 3360-09-21	PLAT SHEET 4.07	
CONSTRUCTION PROJECT NUMBER 3360-09-70	PS&E SHEET	E

FILE NAME : J:\projects\d2_r_336009175\33600921\040407_rp.dgn PLOT DATE : 20-MAY-2014 13:28 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 100.000000:1.000000

CONST. I.D. 3360-09-70 3360-09-21 4.07

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WASHINGTON COUNTY ZONE, NAD 83 (1997) ADJUSTMENT AND ARE REFERENCED TO HARN POINTS JACKSON GPS, RICHFIELD E. GPS, AND GERMANTOWN N. GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

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HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 175	PROJECT T0141(6)	VARIES	1960
STH 175	CSM 9	33'	1958
STH 175	TERRITORIAL ROAD RESERVATION S.S. 66.1024	33'	1843
STH 167	PROJECT 2302-04-20	VARIES	1994
STH 167	PROJECT T0141(6)	VARIES	1960

(100) AT&T WISCONSIN
DOC. 175008 PCL. 31
DOC. 622689 V. 1270, P. 45 PCL. 35
DOC. 204146 V. 170, P. 465 PCL. 31
DOC. 175009 V. 130, P. 9 PCL. 33, PCL 34

(101) WE ENERGIES ELECTRIC
DOC. 417890 V. 706, P. 590 PCL. 29
DOC. 622689 V. 1270, P. 45 PCL. 35
CONVEYANCE OF RIGHTS DOC. 704162 V. 1548, P. 343 PCL. 31
DOC. 781699 PCL. 31

(102) WE ENERGIES GAS
DOC. 175697 V. 130, P. 141 PCL. 32, PCL. 33, PCL 34, PCL. 35

(29) SCHAFFHAUSER

(31) RICHFIELD SCHOOL DISTRICT

(32) BRUCKBACHER & PREPSTER

(33) BUTTKE

(34) POLZIN

(35) PETRO PROPERTIES

VILLAGE OF RICHFIELD

CSM 9 V. 1, P. 15

R STH 175
CURVE PRL171
PI STA 1150+88.44
N 121177.85
E 360135.57
PC STA 1148+95.85
PT STA 1152+78.75
DELTA 15°18'57"
D 4°00'00"
T 192.60'
L 382.90'
R 1432.39'
LCH 381.76'
LCB N 16°37'47" W

SEC9077 N=118660.31 E=359867.34 CONC. MON. WITH WASHINGTON COUNTY CAP

OTR16 N=121308.77 E=359872.79 CONC. MON. WITH BRASS D.O.T. CAP

SEC15 N=121278.81 E=362497.30 D.O.T. BRASS CAP IN BRIDGE DECK MEDIAN

STH 167 687+82.62= STH 175 1152+27.64

REVISION DATE AUGUST 6, 2012 SEP. 25, 2012 FEB. 22, 2013 JUNE 11, 2013 JAN. 30, 2014 MAY 20, 2014	DATE OCTOBER 14, 2011	SCALE, FEET 0 50 100	HWY: STH 175	STATE R/W PROJECT NUMBER 3360-09-21	PLAT SHEET 4.08
	GRID FACTOR N/A		COUNTY: WASHINGTON	CONSTRUCTION PROJECT NUMBER 3360-09-70	PS&E SHEET E

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WASHINGTON COUNTY ZONE, NAD 83 (1997) ADJUSTMENT AND ARE REFERENCED TO HARN POINTS JACKSON GPS, RICHFIELD E. GPS, AND GERMANTOWN N. GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

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HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 175	PROJECT T0141(6)	VARIES	1960
STH 175	TERRITORIAL ROAD RESERVATION S.S. 66.1024	33'	1843
STH 167	PROJECT 2302-04-20	VARIES	1994
STH 167	PROJECT T0141(6)	VARIES	1960
STH 167	CSM 1860	50'	1978
BASSWOOD LANE	CSM 1860	66'	1978

(100) AT&T WISCONSIN
DOC. 426570
V. 727, P. 688
PCL. 36

DOC. 204146
V. 170, P. 465
PCL. 31, PCL. 39

(101) WE ENERGIES ELECTRIC
DOC. 426570
V. 727, P. 688
PCL. 36

VILLAGE OF RICHFIELD

OTR25
N=123958.26
E=359873.59
CONC. MON. WITH BRASS CAP

(38) THOMA TRUST

(37) WOLF

(237) WOLF

PARCEL 3
CSM 2215
V. 11, P. 307

SW1/4-SE1/4

PARCEL 237
PLE DETAIL
NOT TO SCALE

PLE DRAINAGE

TLE SLOPES AND DRIVEWAY

30' X 20' PLE FOR DRAINAGE

SE1/4-SW1/4

(36) LOGGERS PARK LLC

NE1/4-NW1/4

(85) SCHNEIDER

(84) SHIPMAN

(39) KURTH
LOT 1
CSM 1860
V. 9, P. 332

(31) RICHFIELD SCHOOL DISTRICT

BASSWOOD LANE

TLE DRIVEWAY

SIGN

FILL PIPE

UNDERGROUND WATER VAULT (16'x14'x10')

SEPV

SEPV WELL

MHP

RBR W/ CAP

SUBCURVE C1
L=51.11'
R=1432.39'
LC=51.11'
LCB=N23°15'56"W

℄ STH 175
CURVE PRL171
PI STA 1150+88.44
Y 121177.85
X 360135.57
PC STA 1148+95.85
PT STA 1152+78.75
DELTA 15°18'57"
D 4°00'00"
T 192.60'
L 382.90'
R 1432.39'
LCH 381.76'
LCB N 16°37'47" W

OTR16
STA. 685+78.86
N=121308.77
E=359872.79
CONC. MON. WITH BRASS D.O.T. CAP

SEC9077
N=118660.31
E=359867.34
CONC. MON. WITH WASHINGTON COUNTY CAP

SEC22
N=121338.75
E=357243.64
CONC. MON. WITH BRASS D.O.T. CAP

SEC15
N=121278.81
E=362497.30
D.O.T. BRASS CAP IN BRIDGE DECK MEDIAN

WEST PROJECT LIMITS

STH 175 1157+24.68= 1/4 LINE

STH 167 687+82.62= STH 175 1152+27.64

PT 1152+78.75

PI 1150+88.44

REVISION DATE	
AUGUST 6, 2012	JUNE 11, 2013
SEP. 25, 2012	JAN. 30, 2014
FEB. 22, 2013	MAY 20, 2014

DATE OCTOBER 14, 2011
GRID FACTOR N/A

SCALE. FEET
0 50 100

HWY: STH 175
COUNTY: WASHINGTON

STATE R/W PROJECT NUMBER 3360-09-21
CONSTRUCTION PROJECT NUMBER 3360-09-70

PLAT SHEET 4.09
PS&E SHEET

E

FILE NAME : J:\projects\d2_r_336009175\33600921\040409_rp.dgn
PLOT DATE : 20-MAY-2014 13:29
PLOT BY : $$...plotuser...$$ PLOT NAME :
PLOT SCALE : 100.000000:1.000000

OTR25
N=123958.26
E=359873.59
CONC. MON.
WITH BRASS CAP

(100) AT&T WISCONSIN
DOC. 558067
V. 1067, P. 65
PCL. 44

(101) WE ENERGIES ELECTRIC
NO RECORDED
EASEMENT
PCL. 40
DOC. 558067
V. 1067, P. 65
PCL. 44

(102) WE ENERGIES GAS
NO RECORDED
EASEMENT
PCL. 42, PCL. 43

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WASHINGTON COUNTY ZONE, NAD 83 (1997) ADJUSTMENT AND ARE REFERENCED TO HARN POINTS JACKSON GPS, RICHFIELD E. GPS, AND GERMANTOWN N. GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

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HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 167	CSM 2215	60'	1979
STH 167	CSM 3492	60'	1979
WOLF DRIVE	CSM 2215	66'	1979

2649.49'
STH 175 1157+24.68=
1/4 LINE
451.10'
N00°01'02"E
1/4 LINE
P.I. 1685+78.86
1155
℄ STH 175
1154
N24°17'16"W
688
PT 1152+78.75
203.76'
688
1152
592.45'
STH 167 687+82.62=
STH 175 1152+27.64
OTR16
STA. 685+78.86
N=121308.77
E=359872.79
CONC. MON.
WITH BRASS
D.O.T. CAP
P.I. 1150+88.44
1150
PC 1148+95.85

℄ STH 175

CURVE	PRL171
PI STA	1150+88.44
N	121177.85
E	360135.57
PC STA	1148+95.85
PT STA	1152+78.75
DELTA	15°18'57"
D	4°00'00"
T	192.60'
L	382.90'
R	1432.39'
LCH	381.76'
LCB	N 16°37'47" W

GN

SW1/4-SE1/4

TLE SLOPES AND DRIVEWAYS
VILLAGE OF Z
PRM860
691+54.83
35.37'
64'
N24°19'33"W
(40) WEIGEL TRUST
S85°12'19"E
276.99'
S88°01'40"E
269.91'
145.12'
39.02'
24.75'
99'
PRM861
694+24.67
29.16'
N24°19'33"W
SIGN
28.51'
32.17'
692
694
℄=SEC. LINE
266.95'
PL.
PL.
668.35'
888.35'
33'
10'
220.00'
170'
24.75'
68'
50'
15'
121.81'
61.65'
62.01'
N75°20'47"W 132.28'
158.35'
27.00'
5.00'
5.00'
60'
692+47.21
33.43'
PRM885
NOO°39'15"E
TLE SLOPES AND DRIVEWAY
694+67.21
33.48'
PRM887
SOO°39'15"W
695+28.86
33'
PRM883
696+57.21
65'
PRM884
30.00'
SOO°39'15"W
60'

(41) POINT WOLF LLC
PARCEL 1
CSM 2215
V.11, P. 307

WOLF DRIVE
TLE SLOPES
NOIS
NOIS
SIGN
60'
696
S89°20'45"E
698
700
2624.68'
EAST PROJECT LIMITS
TLE SLOPES
L=12.71'
R=100.00'
LC=12.70'
LCB=S02°59'08"E
N51°20'29"E
20'
16.28'
DETAIL
NOT TO SCALE
WISCONSIN DEPARTMENT OF TRANSPORTATION
1/16 LINE
SEC15
N=121278.81
E=362497.30
D.O.T. BRASS CAP
IN BRIDGE DECK
MEDIAN
216.76'
220.95'
225.15'
OUTLOT 6
REFLECTIONS VILLAGE
66'RESERVED FOR FUTURE
ROADWAY PER CSM 3492
SOO°39'15"W
65'
5'
6.53'
6.53'
S39°20'45"E
700+49.60
65'
PRM885
NOO°00'09"E
1/16 LINE
NW1/4-NE1/4
TLE SLOPES
NE1/4-NE1/4
RICHFIELD
(28) REFLECTIONS RICHFIELD
(42) WENDLER
(43) MILLER TRUST
(44) MILLIS REAL ESTATE LEASING
LOT 1
CSM 3492
V. 21, P. 146
INGRESS & EGRESS
EASEMENT FOR LOT 1
PER CSM 3492

REVISION DATE AUGUST 6, 2012 SEP. 25, 2012 FEB. 22, 2013 JUNE 11, 2013 JAN. 30, 2014 MAY 20, 2014	DATE OCTOBER 14, 2011 GRID FACTOR N/A	SCALE, FEET 0 50 100	HWY: STH 175 COUNTY: WASHINGTON	STATE R/W PROJECT NUMBER 3360-09-21 CONSTRUCTION PROJECT NUMBER 3360-09-70	PLAT SHEET 4.10 PS&E SHEET E

FILE NAME : J:\projects\d2_r_336009175\33600921\040410_rp.dgn
PLOT DATE : 20-MAY-2014 13:29
PLOT BY : $$...plotuser...$$ PLOT NAME :
PLOT SCALE : 100.000000:1.000000

(100) AT&T WISCONSIN
DOC. 429680
V. 736, P. 21
PCL. 46

DOC. 426570
V. 727, P. 688
PCL. 45 PCL. 46

NO RECORDED
EASEMENT
PCL. 54

(101) WE ENERGIES ELECTRIC
DOC. 466871
V. 826, P. 397
PCL. 45

DOC. 429680
V. 736, P. 21
PCL. 46

CONVEYANCE OF RIGHTS
DOC. 704162
V. 1548, P. 343
PCL. 45&46

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WASHINGTON COUNTY ZONE, NAD 83 (1997) ADJUSTMENT AND ARE REFERENCED TO HARN POINTS JACKSON GPS, RICHFIELD E. GPS, AND GERMANTOWN N. GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

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HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 175	CSM 2225	60'	1979
STH 175	CSM 2133	60'	1979
STH 175	TERRITORIAL ROAD RESERVATION S.S. 66.1024	66'	1843
ELM STREET	LAUBENHEIMER'S GROVE	50'	1931

GN

CSM 2225
V. 11, P. 329

SE1/4-SW1/4

VILLAGE OF

(45) GOETZ

(46) PIONEER BOWL

(47) GAUTHIER
PARCEL 2
CSM 2133
V. 11, P.97

NE1/4-SW1/4

(48) SCHWARTZ

(49) DUCHROW

(50) THOMA & GRINTJES

(51) 1798 HIGHWAY 176 LLC

(52) RICHFIELD PROPERTIES LLC

(53) THOMA TRUST

(54) JETSCO LLC

(55) OLSAN

(56) HORNING

(57) BASTIAN
LAUBENHEIMER'S GROVE
BLOCK 1

LAUBENHEIMER'S SUBDIVISION

LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 LOT 6 LOT 7 LOT 8 LOT9 LOT 10 LOT 5 LOT 6

R STH 175
PISTA 1166+73.72
N 122624.91
E 359482.57
PC STA 1165+75.57
PT STA 1167+71.80
DELTA 3°55'28"
D 1°59'60"
T 98.15'
L 196.23'
R 2864.79'
LCH 196.19'
LCB N 22°19'32" W

S65°42'44"W

N65°42'44"E

N24°17'16"W

N22°11'55"W

N20°21'47"W

N20°22'12"W

S67°07'28"W

N67°07'28"E

S65°41'57"W

N00°50'29"E

N18°49'32"E

S78°58'17"E

N69°37'48"E

S69°37'48"W

S89°24'57"E

N85°49'17"W

N65°58'51"E

S22°25'32"W

N00°01'02"E

TLE SLOPES

TLE SLOPES AND DRIVEWAY

TLE DRIVEWAY

UNDERGROUND WATER VAULT

EAST PROJECT LIMITS

STH 175 1169+46.74=
ELM STREET 85+00

STH 175 1166+86.63=
1/16 LINE

STH 175 1157+24.68=
1/4 LINE

1/16 LINE

1/4 LINE

ELM STREET

SIGN

POOL

DETAIL
NOT TO SCALE

OTR16
N=121308.77
E=359872.79
CONC. MON.
WITH BRASS
D.O.T. CAP

OTR19
N=123982.01
E=357233.57
CONC. MON.
WITH BRASS CAP

OTR25
N=123958.26
E=359873.159
CONC. MON.
WITH BRASS CAP

451.10'

2649.49'

2640.12'

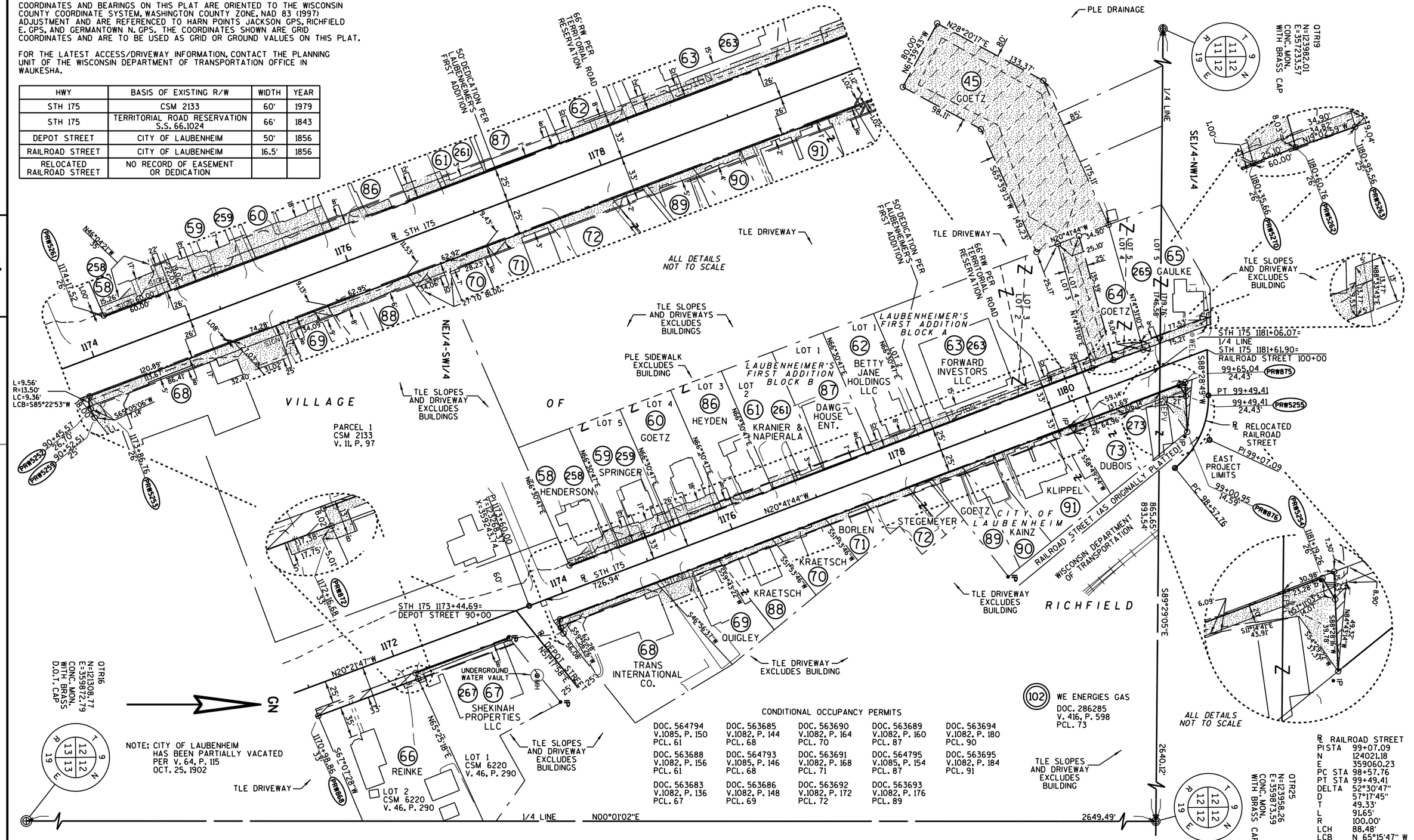
REVISION DATE AUGUST 6, 2012 JUNE 11, 2013 SEP. 25, 2012 JAN. 30, 2014 FEB. 22, 2013 MAY 20, 2014	DATE OCTOBER 14, 2011	SCALE. FEET 0 50 100	HWY: STH 175	STATE R/W PROJECT NUMBER 3360-09-21	PLAT SHEET 4.11
	GRID FACTOR N/A		COUNTY: WASHINGTON	CONSTRUCTION PROJECT NUMBER 3360-09-70	PS&E SHEET E

FILE NAME : J:\projects\d2_r_336009175\33600921\040411_rp.dgn PLOT DATE : 20-MAY-2014 13:29 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 100.000000:1.000000

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WASHINGTON COUNTY ZONE, NAD 83 (1997) ADJUSTMENT AND ARE REFERENCED TO HARN POINTS JACKSON GPS, RICHFIELD E. GPS, AND GERMANTOWN N. GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 175	CSM 2133	60'	1979
STH 175	TERRITORIAL ROAD RESERVATION S.S. 66.1024	66'	1843
DEPOT STREET	CITY OF LAUBENHEIM	50'	1856
RAILROAD STREET	CITY OF LAUBENHEIM	16.5'	1856
RELOCATED RAILROAD STREET	NO RECORD OF EASEMENT OR DEDICATION		



CONDITIONAL OCCUPANCY PERMITS

DOC. 564794 V.1085, P. 150 PCL. 61	DOC. 563685 V.1082, P. 144 PCL. 68	DOC. 563690 V.1082, P. 164 PCL. 70	DOC. 563689 V.1082, P. 160 PCL. 87	DOC. 563694 V.1082, P. 180 PCL. 90
DOC. 563688 V.1082, P. 156 PCL. 61	DOC. 564793 V.1085, P. 146 PCL. 68	DOC. 563691 V.1082, P. 168 PCL. 71	DOC. 564795 V.1085, P. 154 PCL. 87	DOC. 563695 V.1082, P. 184 PCL. 91
DOC. 563683 V.1082, P. 136 PCL. 67	DOC. 563686 V.1082, P. 148 PCL. 69	DOC. 563692 V.1082, P. 172 PCL. 72	DOC. 563693 V.1082, P. 176 PCL. 89	

R/ RAILROAD STREET
PI STA 99+07.09
N 124021.18
E 359060.23
PC STA 98+57.76
PT STA 99+49.41
DELTA 52°30'47"
D 57°17'45"
T 49.33'
L 91.65'
R 100.00'
LCH 88.48'
LCB N 65°15'47" W

REVISION DATE AUGUST 6, 2012 SEP. 25, 2012 FEB. 22, 2013 JUNE 11, 2013 JAN. 30, 2014 MAY 20, 2014	DATE OCTOBER 14, 2011	SCALE, FEET 0 50 100	HWY: STH 175	STATE R/W PROJECT NUMBER 3360-09-21	PLAT SHEET 4.12
	GRID FACTOR N/A		COUNTY: WASHINGTON	CONSTRUCTION PROJECT NUMBER 3360-09-70	PS&E SHEET E

FILE NAME : J:\projects\d2_r_336009175\33600921\040412_rp.dgn PLOT DATE : 20-MAY-2014 13:29 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 100.000000:1.000000 CONST. I.D. 3360-09-70 3360-09-21 4.12

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WASHINGTON COUNTY ZONE, NAD 83 (1997) ADJUSTMENT AND ARE REFERENCED TO HARN POINTS JACKSON GPS, RICHFIELD E. GPS, AND GERMANTOWN N. GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

ALL DETAILS NOT TO SCALE

T 9 N, R 19 E — 11 12 / 11 12

OTR19
N=123982.01
E=357233.57
CONC. MON. WITH BRASS CAP

1/4 LINE

TLE DRIVEWAYS

S59°52'16"W 13.18'

S69°18'16"W 13'

N88°33'43"E 13.77'

15'

59.10'

SIGN

104.80'

78.64'

19.54'

10.17'

1182

PC 1181+98.34

S69°18'16"W 8' TO BLDG. 20'

S75°29'10"W 50'

5.03'

8.05'

N20°41'44"W 30' 50'

S74°18'53"W PL.

VILLAGE OF

1/16 LINE

N00°04'53"W 883.93'

S89°29'05"E

SE1/4-NW1/4

(77) WOLF BROS. FUEL

SIGN

TANKS

N89°27'15"E

(75) CRADEN MFG. CO. INC.

(76) LAURA OSWALD TRUST

S74°18'53"W

S75°29'10"W

(74) WARTGOW KEMPFER E.T.A.L.

N65°33'48"E 10.02'

11' TO BLDG. 21.65' TO COR.

11.5'

65'

65.98'

15.33'

S59°52'16"W

PC 1181+98.34

1184

1186

1187+05.53

AHEAD BACK

PI 1186+68.50

PI 1184+33.43

274.27'

249.30'

35'

50'

5'

N39°06'42"W

N25°01'29"W 32.42'

N33°42'08"W 56.81'

(79) BRICCO-ZYCHOWSKI

WISCONSIN DEPARTMENT OF TRANSPORTATION

1719.76'

1746.58'

STH 175 1181+61.90= RAILROAD STREET 100+00

℄ STH 175
66' TERRITORIAL ROAD RESERVATION

60.00'

N20°41'44"W 28.58'

25'

250.22'

1182

OTR25
N=123958.26
E=359873.59
CONC. MON. WITH BRASS CAP

T 9 N, R 19 E — 12 12 / 12 12

2640.12'

893.54'

EAST PROJECT LIMITS

(78) RICHFIELD FIRE DEPT.

GN

PC 1189+86.08

1192

96.92'

N08°40'12"W 44.25'

57.40'

CURVE PRW81

N37°02'40"W 63.95'

31.35'

N62°53'32"E 51.08'

59.70'

29.23'

N01°36'48"W 88.93'

CURVE PRW80

1190

PL.

293.75'

357.39'

365.88'

15'

PI 1191+70.07

SIGN

PRW81

PRW80

1192+11.34

193+54.02

PRW819

PRW818

SW1/4-NW1/4

N89°27'43"W

S89°25'10"E

1/16 LINE

S89°27'43"E

TLE SLOPES AND DRIVEWAY

END RELOCATION ORDER
STA. 1195+25
N=125229.25
E=358338.99

1196

N30°00'56"W 19.74'

PI 193+54.02

1194

PL.

33'

33'

31.07'

195+00.09

PRW818

46.07'

115.00'

50'

50'

CURVE PRW80
L=27.02'
R=11509.16'
LC=27.02'
LCB=S29°22'10"E

CURVE PRW81
L=116.28'
R=11509.16'
LC=116.28'
LCB=S29°43'34"E

RICHFIELD

(81) BERNARD

(101) WE ENERGIES ELECTRIC
NO RECORDED EASEMENT
PCL. 76&79

1188

N28°10'33"W 51.22'

122.73'

N39°06'42"W 107.68'

49.16'

PRW816

26.58'

17.12'

S66°49'04"W 24.59' TO BLDG. 2' TO COR.

(80) RICHFIELD VOLUNTEER FIRE CO.

TLE SLOPES AND DRIVEWAY

S02°29'40"E 49' TO BLDG. 58.94' TO COR.

N89°20'30"W

PRW2423

1182+66.83

25.66'

TLE SLOPES AND DRIVEWAY EXCLUDES BUILDING

UNDERGROUND WATER VAULT (13.75' DIA. X 13.8')

FILL PIPE

N20°41'44"W 132.66'

165.60'

S88°28'49"W

PT 99+49.41

PRW817

N84°43'14"W 58.22'

99+08.95

14.54'

S39°00'24"E

RAILROAD STREET (AS ORIGINALLY PLATTED)

RR RELOCATED RAILROAD STREET

DETAIL NOT TO SCALE

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 175	TERRITORIAL ROAD RESERVATION S.S. 66.1024	66'	1843
RAILROAD STREET	CITY OF LAUBENHEIM	16.5'	1856
RELOCATED RAILROAD STREET	NO RECORD OF EASEMENT OR DEDICATION		

℞ RAILROAD STREET		℞ STH 175		℞ STH 175	
PI STA	99+07.09	PI STA	1184+33.43	PI STA	1191+70.07(2)
N	124021.18	N	124272.53	N	124921.89
E	359060.23	E	358864.39	E	358516.56
PC STA	98+57.76	PC STA	1181+98.34	PC STA	1189+86.08(2)
PT STA	99+49.41	PT STA	1186+68.50(2)	PT STA	1193+54.02(2)
DELTA	52°30'47"	DELTA	7°28'49"	DELTA	1°50'23"
D	57°17'45"	D	1°35'36"	D	0°29'60"
T	49.33'	T	235.08'	T	183.99'
L	91.65'	L	469.50'	L	367.95'
R	100.00'	R	3596.18'	R	11459.16'
LCH	88.48'	LCH	469.17'	LCH	367.93'
LCB	N 65°15'47" W	LCB	N 24°26'08" W	LCB	N 29°05'44" W

REVISION DATE AUGUST 6, 2012 SEP. 25, 2012 FEB. 22, 2013 JUNE 11, 2013 JAN. 30, 2014 MAY 20, 2014	DATE OCTOBER 14, 2011	SCALE. FEET 0 50 100	HWY: STH 175	STATE R/W PROJECT NUMBER 3360-09-21	PLAT SHEET 4.13
	GRID FACTOR N/A		COUNTY: WASHINGTON	CONSTRUCTION PROJECT NUMBER 3360-09-70	PS&E SHEET E

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
3360-09-20		
FEDERAL PROJECT NUMBER	4.01	

PLAT OF RIGHT-OF-WAY REQUIRED FOR

STH 175

HUBERTUS ROAD TO STH 167

STH 175 WASHINGTON CO.

CONSTRUCTION PROJECT NUMBER
3360-09-70

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	℄
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

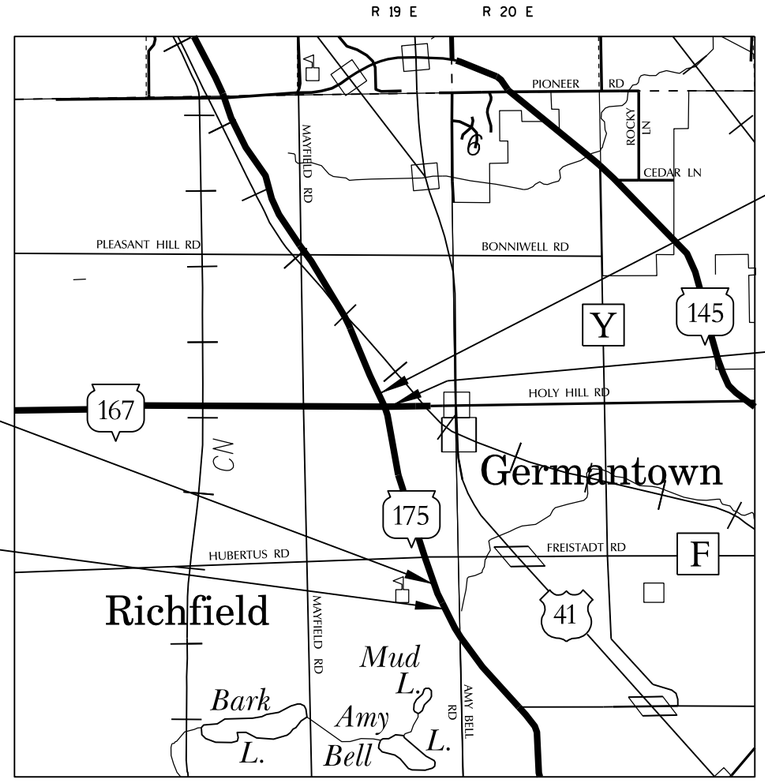
CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⌀ (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	● (SET)	PROPERTY LINE	
R/W STANDARD	▲ (SET)	LOT & TIE LINES	
SIGN	ISIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT	◍	CORPORATE LIMITS	
SECTION CORNER SYMBOL	(1/4 SEC. CORNER)	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWB20	QUARTER LINE	
PARCEL NUMBER	102	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-1	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	—W—	
GAS	—G—	
TELEPHONE	—T—	
OVERHEAD TRANSMISSION LINES	—OH—	
ELECTRIC	—E—	
CABLE TELEVISION	—TV—	
FIBER OPTIC	—FO—	
SANITARY SEWER	—SAN—	
STORM SEWER	—SS—	

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER	⊠	



END SECTION 1
947' SOUTH OF THE NORTH LINE OF THE NORTHEAST 1/4 OF SECTION 24, TOWNSHIP 9 NORTH, RANGE 19 EAST AND 811' WEST OF THE EAST LINE OF THE NORTHEAST 1/4 OF SEC 24, TOWNSHIP 9 NORTH, RANGE 19 EAST.

BEGIN RELOCATION ORDER
1326' SOUTH OF THE NORTH LINE OF THE NORTHEAST 1/4 OF SECTION 24, TOWNSHIP 9 NORTH, RANGE 19 EAST AND 685' WEST OF THE EAST LINE OF THE NORTHEAST 1/4 OF SEC 24, TOWNSHIP 9 NORTH, RANGE 19 EAST.

END RELOCATION ORDER
273' NORTH OF THE SOUTH LINE OF THE SOUTHEAST 1/4 OF SECTION 12, TOWNSHIP 9 NORTH, RANGE 19 EAST AND 81' EAST OF THE WEST LINE OF THE SOUTHEAST 1/4 OF SEC 12, TOWNSHIP 9 NORTH, RANGE 19 EAST.

BEGIN SECTION 2
ON THE SOUTH LINE OF THE SOUTHEAST 1/4 OF SECTION 12, TOWNSHIP 9 NORTH, RANGE 19 EAST AND 204' EAST OF THE WEST LINE OF THE SOUTHEAST 1/4 OF SEC 12, TOWNSHIP 9 NORTH, RANGE 19 EAST.

NOTES

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RIGHT-OF-WAY MONUMENTS WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WIS. D.O.T. SOUTHEAST REGION SURVEY.

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.

N

LAYOUT
SCALE 0 1.00 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.118 MI.

REVISION DATE
OCTOBER 17, 2011
OCTOBER 30, 2014

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED FOR THE DEPARTMENT

DATE: 9/9/10 Robert A. Dreffs
(Signature)

E

FILE NAME : J:\projects\d2_r_336009175\33600920\040101_rt.dgn PLOT DATE : 30-OCT-2014 12:14 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 100.000000:1.000000 WISDOT/CADDS SHEET 50

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACREAGE COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILIBLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

NOTE: *=CALCULATED

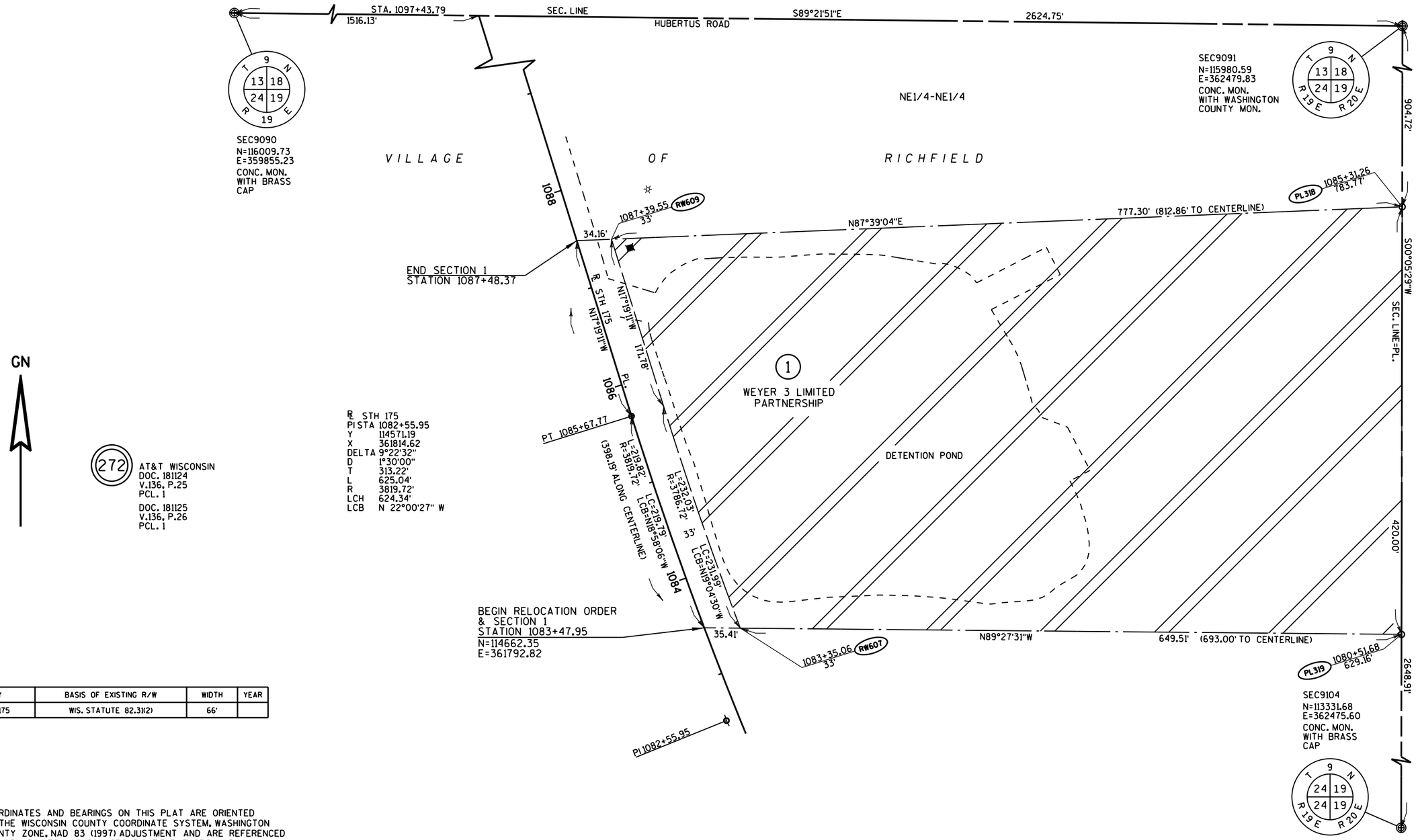
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

4

4

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	TOTAL ACRES	R/W REQUIRED (ACRES)			TOTAL REMAINING ACRES	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES	PARCEL NUMBER
					NEW	EXISTING	TOTAL				
1	4.03	WEYER 3 LIMITED PARTNERSHIP	FEE	6.91*	6.61	0.30	6.91	0.00			1
2(2)	4.04	GOETZ GARAGE, INC.	HE,TLE	1.59	0.61	0.21	0.82	0.77	0.02		2
3(2)	4.04	GOETZ GARAGE, INC.	FEE	0.26	0.26	0.00	0.26	0.00			3
270(2)	4.04	WE ENERGIES ELECTRIC	ROR								270
272	4.03	AT&T WISCONSIN	ROR								272

REVISION DATE OCTOBER 17, 2011 OCTOBER 30, 2014	DATE SEP. 9, 2010	SCALE, FEET 0 N/A	HWY: STH 175	STATE R/W PROJECT NUMBER 3360-09-20	PLAT SHEET 4.02	
			COUNTY: WASHINGTON	CONSTRUCTION PROJECT NUMBER 3360-09-70	PS&E SHEET	E

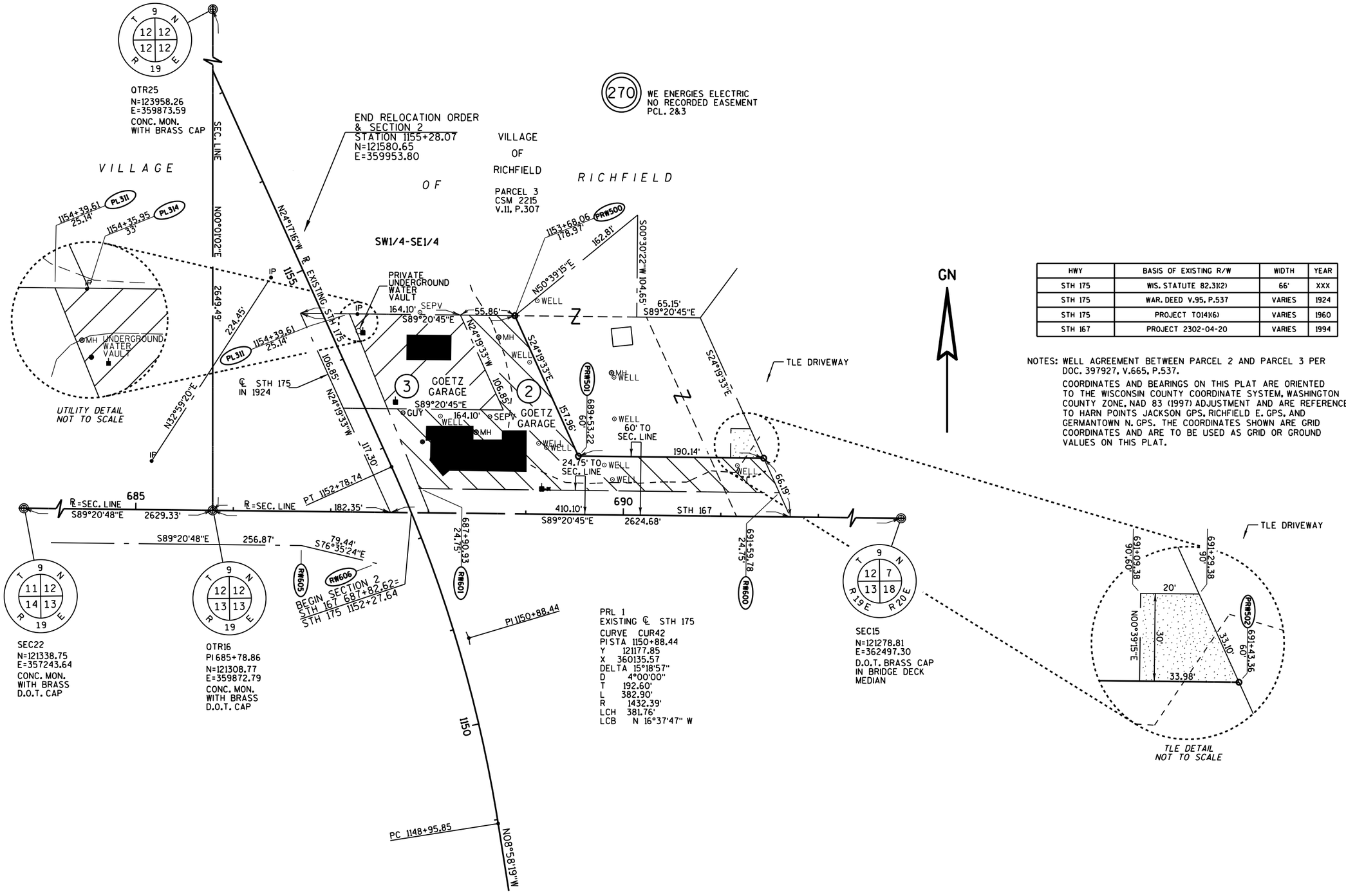


HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 175	WIS. STATUTE 82.31(2)	66'	

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WASHINGTON COUNTY ZONE, NAD 83 (1997) ADJUSTMENT AND ARE REFERENCED TO HARN POINTS JACKSON GPS, RICHFIELD E. GPS, AND GERMANTOWN N. GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

REVISION DATE OCTOBER 17, 2011 OCTOBER 30, 2014	DATE SEP. 9, 2010	SCALE. FEET 0 50 100	HWY: STH 175	STATE R/W PROJECT NUMBER 3360-09-20	PLAT SHEET 4.03	
	GRID FACTOR N/A		COUNTY: WASHINGTON	CONSTRUCTION PROJECT NUMBER 3360-09-70	PS&E SHEET	E

4



HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 175	WIS. STATUTE 82.31(2)	66'	XXX
STH 175	WAR. DEED V.95, P.537	VARIES	1924
STH 175	PROJECT TO141(6)	VARIES	1960
STH 167	PROJECT 2302-04-20	VARIES	1994

NOTES: WELL AGREEMENT BETWEEN PARCEL 2 AND PARCEL 3 PER DOC. 397927, V.665, P.537.

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WASHINGTON COUNTY ZONE, NAD 83 (1997) ADJUSTMENT AND ARE REFERENCED TO HARN POINTS JACKSON GPS, RICHFIELD E. GPS, AND GERMANTOWN N. GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

REVISION DATE OCTOBER 17, 2011 OCTOBER 30, 2014	DATE OCTOBER 17, 2011	SCALE, FEET 0 50 100	HWY: STH 175	STATE R/W PROJECT NUMBER 3360-09-20	PLAT SHEET 4.04	
	GRID FACTOR		COUNTY: WASHINGTON	CONSTRUCTION PROJECT NUMBER 3360-09-70	PS&E SHEET	E

BEGIN PROJECT 3360-09-70
STA 1086+00.00
Y= 114 900.97
X= 361 711.78
MATCH EXISTING
SAWCUT REQD

SEE "PLAN DETAIL - STH 175" SHEETS FOR DETAILS.

FINK
BEECHWOOD INDUSTRIAL COURT
WEYER
LUBUS
MAPLE GROVE
FIRST NATIONAL BANK
HUBERTUS ROAD
WEYER
KAUL OIL
STATE OF WISCONSIN
JOYCE WEYER FAMILY LLP

BM #1
BM #2
PT 1085+67.77
HAZARDOUS MATERIAL AREA (SEE "PLAN DETAIL" SHEET FOR INFO)
STA. 1097+43.79 = STA. 100+00.00 "HU"
MATCH LINE STA 1100+00

RIGHT OF WAY
SLOPE INTERCEPTS
TLE
PL
SEPTIC
FILLER CAPS
CANOPY
FREISTADT ROAD

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
1	1089+11	SE CORNER SIDEWALK	113.8' LT	994.70
2	1098+85	CAPPED REBAR	28.1' LT	989.56

VPOT STA 1086+00.00
VPOT EL 993.49
-0.39 %
VPC STA 1094+00.00
VPC EL 990.37
VPI STA 1094+75.00
VPI EL 990.08
VPT STA 1095+50.00
VPT EL 989.71
K = 1360.10
VCL 150.00
-0.50 %
VCL 400.00
K = 400.00
EXISTING GROUND
PROPOSED PROFILE
VPC STA 1097+43.00
VPC EL 988.74
VPI STA 1099+43.00
VPI EL 987.74
1099+43.00
988.24
PROPOSED PROFILE ELEVATION
EXISTING GROUND ELEVATION

1005 1000 995 990 985 980 975

1085+00	1085+50	1086+00	1086+50	1087+00	1087+50	1088+00	1088+50	1089+00	1089+50	1090+00	1090+50	1091+00	1091+50	1092+00	1092+50	1093+00	1093+50	1094+00	1094+50	1095+00	1095+50	1096+00	1096+50	1097+00	1097+50	1098+00	1098+50	1099+00	1099+50	1100+00
993.77	993.63	993.49	993.49	993.35	993.30	993.24	993.10	993.09	992.91	992.84	992.71	992.79	992.52	992.76	992.32	992.63	992.13	992.56	991.93	992.51	991.74	992.47	991.54	992.42	991.35	992.24	991.15	991.99	990.96	991.75	990.76	991.54	990.57	991.32	990.37	991.09	990.17	991.10	989.95	991.33	989.71	991.36	989.46	991.17	989.21	990.89	988.96	990.61	988.71	990.33	988.50	990.18	988.35	990.07	988.26	989.99	988.24	990.00	988.28

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN & PROFILE: VILLAGE OF RICHFIELD	SHEET	E

FILE NAME : N:\PDS\Projects\33600900\DDE\Graphical Information\Plan Sheets\050101_pp.dgn
PLOT DATE : 29-JUL-2015 11:18 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 100:1

SEE "PLAN DETAIL - STH 175" SHEETS FOR DETAILS.

WEYER

PL

WEYER

FAIRWAY VIEW CT

FAIRWAY FIELD LLC

ZIMMERMANN'S KETTLE HILLS

GOLF GREEN

BM #3

SLOPE INTERCEPTS

RIGHT OF WAY

TLE

179°33'44"

STA 1100+00

STA 1115+00

1100+00

1105+00

1110+00

1115

MATCH LINE

MATCH LINE

BM #4

SLOPE INTERCEPTS

RIGHT OF WAY

PI 1113+19.15

SHEPERD OF THE HILLS

GROSS

HSBC BANK

POOL

KOHL TRUST

PI = 1113+19.15
Y 117 496.83
X 360 902.28

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
2	1098+85	CAPPED REBAR	113.8' LT	994.70
3	1108+76	N END TOP OF 18" CP	68.5' LT	1005.78
4	1114+38	CAPPED REBAR	21.0' RT	1033.50

EXISTING GROUND

+5.41 %

VCL 480.00
K = 97.68

IDENTICAL POINTS

PROPOSED PROFILE

VPT STA 1107+95.00
VPT EL1003.79

VPC STA 1112+50.00
VPC EL1028.43

VPI STA 1113+40.00
VPI EL 1033.30

VPT STA 1114+30.00
VPT EL1033.39

K = 33.89
VCL 180.00

+0.50 %

VPT STA 1101+43.00
VPT EL 988.74

VPC STA 1103+15.00
VPC EL 989.60

VPI STA 1105+55.00
VPI EL 990.80

PROPOSED PROFILE ELEVATION
EXISTING GROUND ELEVATION

| | | | |

SEE "PLAN DETAIL - STH 175" SHEETS FOR DETAILS.

PI = 1125+28.14
Y 118 648.22
X 360 533.55
Δ = 8°50'13"
D = 4°00'00"
T = 110.68'
L = 220.93'
R = 1432.39'
PC = 1124+17.46
PT = 1126+38.38
SE = 5.2%
RO = 125.00'

STA. 1121+00
END RECONSTRUCT SECTION
BEGIN RESURFACE SECTION

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
4	1114+38	CAPPED REBAR	21.0' RT	1033.50
5	1127+38	CENTER SURFACE INLET	92.3' LT	1038.78
6	1139+59	CAPPED REBAR	18.4' LT	1076.09

VCL 260.00
K = 373.08
+0.10 %
+0.80 %
VCL 260.00
K = 77.22
+0.27 %
K = 263.77
VCL 140.00
PROPOSED PROFILE
EXISTING GROUND
PROPOSED PROFILE ELEVATION
EXISTING GROUND ELEVATION

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN & PROFILE: VILLAGE OF RICHFIELD	SHEET E

FILE NAME : N:\PDS\Projects\33600900\DDE\Graphical Information\Plan Sheets\050103_pp.dgn
PLOT DATE : 29-JUL-2015 11:34
PLOT BY : dotshw
PLOT NAME :
PLOT SCALE : 100:1

WISDOT/CADDS SHEET 40

PI = 1140+70.42
Y 120 172.28
X 360 294.33

SEE "PLAN DETAIL - STH 175" SHEETS FOR DETAILS.

N

JC WERNER PROPERTIES

SCHAFFHAUSER

STA. 1132+84.41
END RESURFACE SECTION
BEGIN RECONSTRUCT SECTION

SLOPE INTERCEPTS

RIGHT OF WAY

TLE

179°56'55"

BM #6

STA 1130+00

STA 1145+00

MATCH LINE

1135+00

1140+00

1145

PI 1140+70.42

REFECTIONS RICHFIELD

BRUCKBACHER & PREPSTER

BUTTKE

SEPTIC

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
5	1127+38	CENTER SURFACE INLET	92.3'LT	1038.78
6	1139+59	CAPPED REBAR	18.4'LT	1076.09
7	1150"A"+69	CHIS SQR ON CONC BETWEEN DOORS	112.5'LT	1017.88

VPI STA 1139+33.00
VPI EL1081.65

EXISTING GROUND

1139+15.16
1076.51

VCL 280.00
K = 214.30

+4.94 %

K = 34.83
VCL 380.00

-5.97 %

PROPOSED PROFILE

+3.64 %

VPT STA 1130+75.00
VPT EL1044.73

VPC STA 1133+55.00
VPC EL1054.91

VPI STA 1134+95.00
VPI EL1060.00

VPT STA 1136+35.00
VPT EL1066.92

VPC STA 1137+43.00
VPC EL1072.26

VPT STA 1141+23.00
VPT EL1070.31

VPC STA 1143+75.00
VPC EL1055.28

VPI STA 1144+50.00
VPI EL1050.80

K = 254.18
VCL 150.00

PROPOSED PROFILE ELEVATION
EXISTING GROUND ELEVATION

| | | |

SEE "PLAN DETAIL - STH 175" SHEETS FOR DETAILS.

RICHFIELD SCHOOL DISTRICT

STA. 1152+27.63 = STA. 687+82.62

BM #7

℄ STH 175

RIGHT OF WAY

TLE

SLOPE INTERCEPTS

A LINE

B LINE

MATCH LINE

STA 1145+00

1148+95.85

1150+00 "A"

1150+00

1150+00 "B"

PI 1150+88.45

1155+00

PT 1152+78.75

WOLF

UNDERGROUND WATER VAULT (16'X14'X10')

FILLER PIPE

SEPTIC

WELL

BUTTKE

POLZIN

WOLF & LIETZAU

PETRO PROPERTIES

FILLER CAPS

JC WERNER PROPERTIES

STA. 1147+50 CONSTRUCT P.E. RT.

RHINS

SIGN

PL

W

T

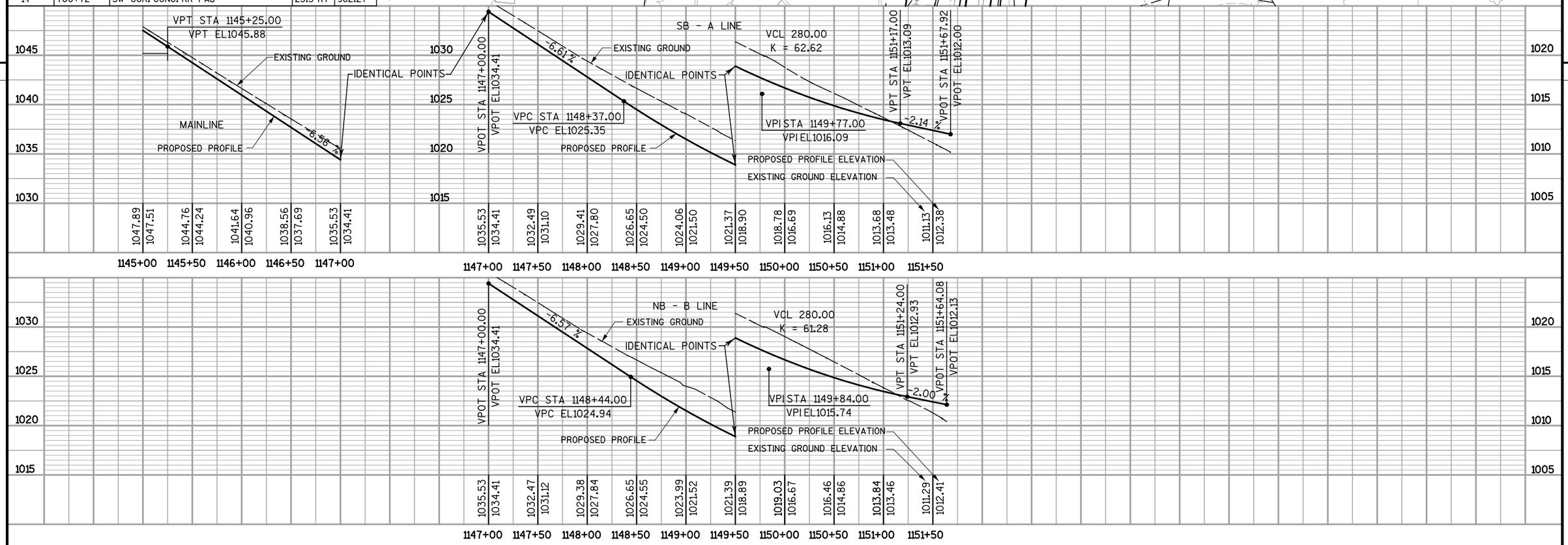
G

STH 175 ℄

PI = 1150+88.45
Y 121 177.85
X 360 135.57
Δ = -15°18'57"
D = 4°00'00"
T = 192.60'
L = 382.90'
R = 1432.39
PC = 1148+95.85
PT = 1152+78.75
SE = N/A
RO = N/A

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
6	1139+59	CAPPED REBAR	18.4'LT	1076.09
7	1150"A"+69	CHIS SQR ON CONC BETWEEN DOORS	112.5'LT	1017.88
13	684+16	NW COR. CONCRETE PAD	52.5'RT	1010.89
14	700+72	SW COR. CONC. RR PAD	23.5'RT	962.27



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN & PROFILE: SOUTH LEG - STH 167/STH 175 ROUNDABOUT	SHEET 258	E

SEE "PLAN DETAIL – STH 175" SHEETS FOR DETAILS.

SLOPE INTERCEPTS

RIGHT OF WAY

℄ STH 175

RICHFIELD SCHOOL DISTRICT

CIRCLE LINE

SLOPE INTERCEPTS

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
6	1139+59	CAPPED_REBAR	18.4'LT	1079.09
7	1150"A"+69	CHIS_SQR_ON_CONC_BETWEEN_DOORS	112.5'LT	1017.88
13	684+16	NW_COR_CONCRETE_PAD	52.5'RT	1010.89
14	700+72	SW_COR_CONC_RR_PAD	23.5'RT	962.27

CIRCLE LINE

PROPOSED PROFILE

BOP STA = 0+00.00
BOP EL = 1010.17

VPI STA = 0+25.00
VPI EL = 1010.73

VPC STA = 0+15.00
VPC EL = 1010.51

VCL=20.00
K=27.89

VPT STA = 0+35.00
VPT EL = 1011.03

+2.24%

+2.96%

VPC STA = 0+55.00
VPC EL = 1011.62

VPI STA = 0+95.00
VPI EL = 1012.80

VCL=80.00
K=15.32

VPT STA = 1+35.00
VPT EL = 1011.89

-2.26%

VPC STA = 1+80.00
VPC EL = 1010.88

VPI STA = 1+90.00
VPI EL = 1010.65

VCL=20.00
K=31.40

VPT STA = 2+00.00
VPT EL = 1010.36

VPC STA = 2+20.00
VPC EL = 1009.78

-2.90%

VPI STA = 2+60.00
VPI EL = 1008.62

VCL=80.00
K=15.63

VPT STA = 3+00.00
VPT EL = 1009.51

+2.22%

EOP STA = 3+29.87
EOP EL = 1010.17

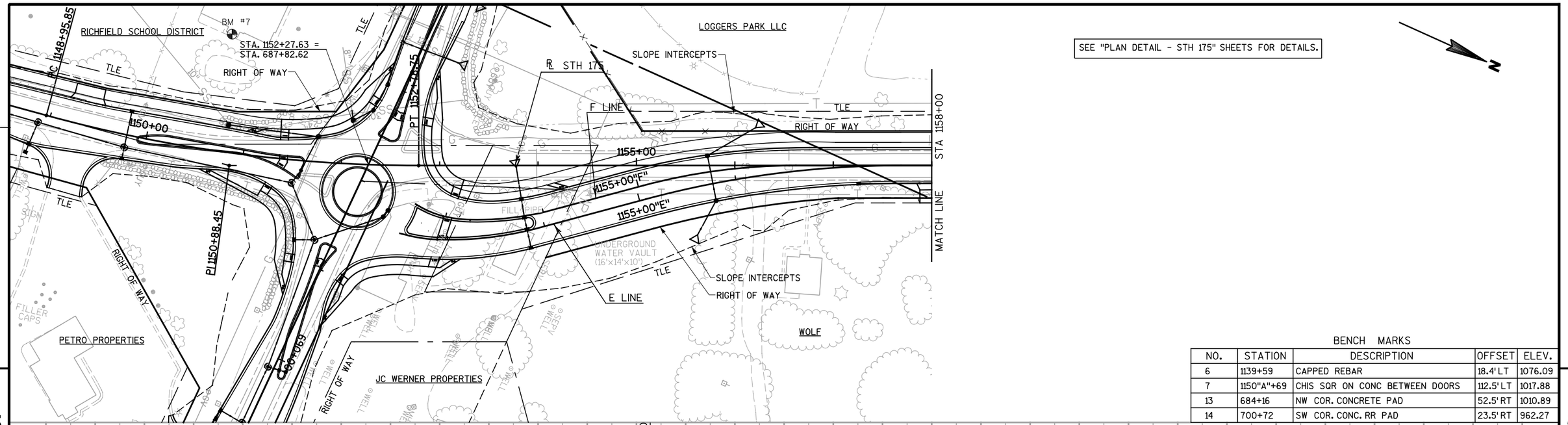
PROPOSED PROFILE ELEVATION
EXISTING GROUND ELEVATION

EXISTING GROUND

1010.17	1011.47	1012.29	1011.56	1010.36	1009.20	1009.51		
1008.39	1008.71	1010.01	1008.58	1008.40	1006.95	1007.42		
0+00	0+50	1+00	1+50	2+00	2+50	3+00	3+50	

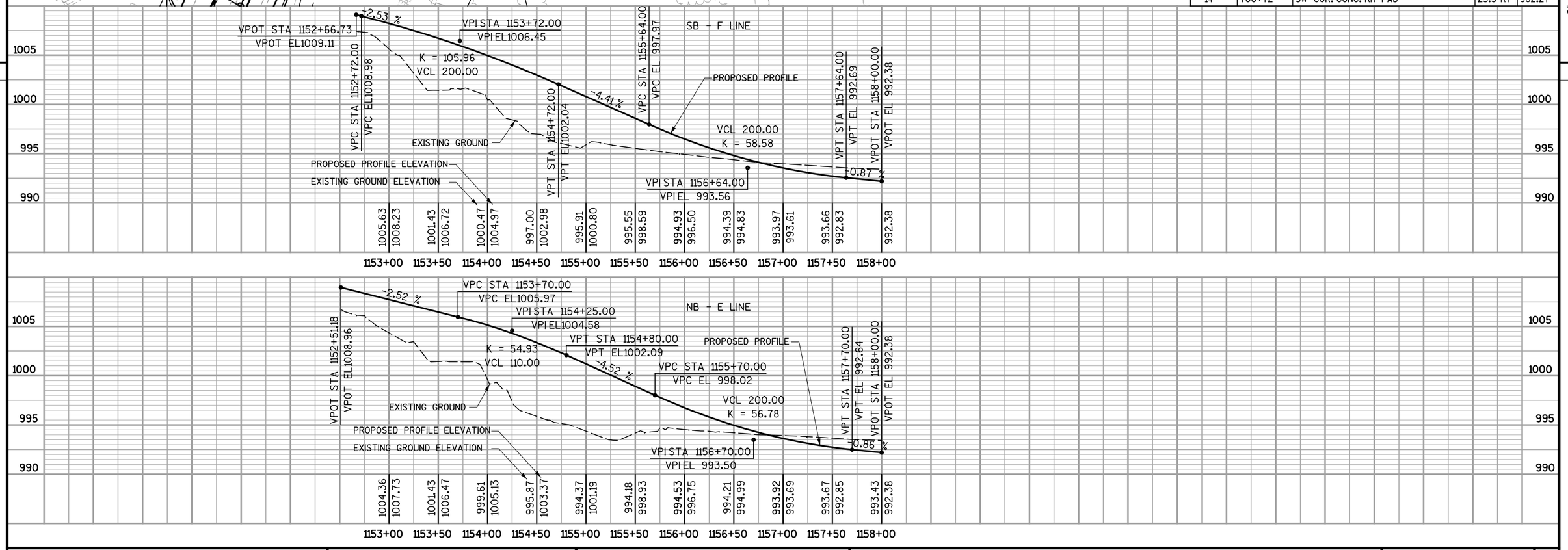
PROJECT NO: 3360–09–70	HWY: STH 175	COUNTY: WASHINGTON	PLAN & PROFILE: CIRCLE – STH 167/STH 175 ROUNDABOUT	SHEET

FILE NAME: W:\x-Projects\RD\7140\project 1 dgn\050105a_pp.dwg PLOT DATE: Oct 23, 2014 PLOT BY: luke0 PLOT SCALE: ROTATION:



BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
6	1139+59	CAPPED REBAR	18.4'LT	1076.09
7	1150"A"+69	CHIS SQR ON CONC BETWEEN DOORS	112.5'LT	1017.88
13	684+16	NW COR. CONCRETE PAD	52.5'RT	1010.89
14	700+72	SW COR. CONC. RR PAD	23.5'RT	962.27



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN & PROFILE: NORTH LEG - STH 167/STH 175 ROUNDABOUT	SHEET 260	E

SEE "PLAN DETAIL - STH 175" SHEETS FOR DETAILS.

PI = 1166+73.72
Y 122 624.91
X 359 482.57
Δ = 3°55'28"
D = 2°00'00"
T = 98.15'
L = 196.23'
R = 2864.79'
PC = 1165+75.57
PT = 1167+71.80
SE = 2.1%
RO = 41.00'

LOGGERS PARK LLC
GOETZ
PIONEER BOWL
GAUTHIER
GOETZ FAMILY TRUST
SLOPE INTERCEPTS
REMOVE CONTAMINATED SOIL SEE PLAN DETAIL SHEET
RIGHT OF WAY
TLE
PL
PLE
STA 1158+00
STA 1173+00
MATCH LINE
1160+00
1165+00
1170+00
PI 1166+73.72
PC 1165+75.57
PT 1167+71.80
THOMA TRUST
SCHWARTZ
DUCHROW
THOMA & GRINT JES
1798 HIGHWAY 176 LLC
UNDERGROUND WATER VAULT (30'DIA. X 11.7')
RICHFIELD PROPERTIES LLC
THOMA TRUST
JETSCO LLC
OLSAN
HORNING
BASTIAN
REINKE
SHEKINAH PROPERTIES LLC
UNDERGROUND WATER VAULT (14'DIA. X 11.7')
RICHFIELD SERVICE
ELM
SEPTIC
BM #8

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
7	1150"A"+69	CHIS SQR ON CONC BETWEEN DOORS	112.5' LT	1017.88
8	1166+98	TOP OF WEST NUT SIGN BASE	52.1' RT	983.30

VCL 200.00
K = 145.56
VPC STA 1158+60.00
VPC EL 991.86
VPI STA 1159+60.00
VPI EL 991.00
1159+85.48
991.32
VPT STA 1160+60.00
VPT EL 991.51
0.86 %
+0.51 %
VPC STA 1161+53.00
VPC EL 991.99
VPI STA 1162+53.00
VPI EL 992.50
VPT STA 1163+53.00
VPT EL 990.03
1161+87.35
992.08
K = 67.10
VCL 200.00
EXISTING GROUND
PROPOSED PROFILE
-2.47 %
VCL 200.00
K = 94.87
VPC STA 1165+50.00
VPC EL 985.17
VPI STA 1166+50.00
VPI EL 982.70
VPT STA 1167+50.00
VPT EL 982.34
-0.36 %
PROPOSED PROFILE ELEVATION
EXISTING GROUND ELEVATION

1158+00	1158+50	1159+00	1159+50	1160+00	1160+50	1161+00	1161+50	1162+00	1162+50	1163+00	1163+50	1164+00	1164+50	1165+00	1165+50	1166+00	1166+50	1167+00	1167+50	1168+00	1168+50	1169+00	1169+50	1170+00	1170+50	1171+00	1171+50	1172+00	1172+50	1173+00
993.43	992.38	993.27	991.95	993.13	991.57	992.92	991.36	992.74	991.33	992.67	991.46	992.57	991.72	992.47	991.97	992.36	992.06	992.11	991.78	991.74	991.13	991.07	990.10	990.07	988.87	988.63	987.64	987.18	986.40	985.78	985.17	984.48	984.07	983.50	983.23	982.95	982.65	982.49	982.34	982.08	982.16	981.89	981.98	981.72	981.80	981.52	981.62	981.36	981.44	981.25	981.26	981.12	981.08	980.96	980.90	980.81	980.72	980.65	980.54	980.53	980.36

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN & PROFILE: VILLAGE OF RICHFIELD	SHEET	E

FILE NAME : W:\x-Projects\RD\7140\project 1 dgn\050107_pp.dgn
PLOT DATE : 10/16/2014
PLOT BY : MikeCO
PLOT NAME :
PLOT SCALE : 100.0000 sf / in.
WISDOT/CADDS SHEET 40

SEE "PLAN DETAIL - STH 175" SHEETS FOR DETAILS.

STA 1173+00

MATCH LINE

PI 1173+60.00

SHEKINAH PROPERTIES LLC

DEPOT STREET

TRANS INTERNATIONAL CO.

RIGHT OF WAY

QUIGLEY

KRAETSCH

BORLEN

STEGMEYER

GOETZ

KLIPPEL

DUBOIS

KAINZ

RAILROAD STREET

SOUTHERN RAILROAD

SEPTIC

POOL

GOETZ

HENDERSON

SPRINGER

HEYDEN

KRANIER & NAPIERALA

DAWG HOUSE ENTERPRISES LLC

BETTY JANE HOLDINGS LLC

FORWARD INVESTORS LLC

SLOPE INTERCEPTS

TLE

PLE

PL

1175+00

1180+00

1185+00

BM #10

BM #11

PC 1181+98.34

WARTGOW KEMPFER E.T.A.L.

GAULKE

CRADEN MFG. CO. INC.

LAURA OSWALD TRUST

WOLF BROTHERS FUEL

WOLF

WALLS

TANKS

SIGN

PT 1186+67.84

STA 1188+00

MATCH LINE

RICHFIELD FIRE DEPARTMENT

FILL PIPE

UNDERGROUND WATER VAULT (13.75' DIA. X 15.58')

PI 1184+33.43

1186+67.84 BACK
1186+68.50 AHEAD

EQUATION

BRICCO-ZYCHOWSKI

PI = 1184+33.42
Y 124 272.53
X 358 864.39
Δ = -7°28'49"
D = 1°35'36"
T = 235.08'
L = 469.50'
R = 3596.18'
PC = 1181+98.34
PT = 1186+67.84
SE = R.C.
RO = 39.00'

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
10	1179+45	CHIS SQR ON CONC BASE FLAG POLE	37.7'LT	980.90
11	1185+66	SE COR CONC SCALE	28.0'LT	966.70

-0.36 %

-0.88 %

PROPOSED PROFILE

EXISTING GROUND

VPC STA 1181+43.0
VPC EL 977.32

VPI STA 1182+18.00
VPI EL 977.05

VPT STA 1182+93.00
VPT EL 973.32

VCL 150.00
K = 36.70

K = 32.54
VCL 150.00

VPC STA 1183+10.00
VPC EL 972.48

VPI STA 1183+85.00
VPI EL 968.75

VPT STA 1184+60.00
VPT EL 968.09

VPC STA 1186+64.34
VPC EL 966.29

BACK 1186+67.84
AHEAD 1186+68.50

VPI STA 1187+20.00
VPI EL 965.80

VPT STA 1187+75.00
VPT EL 963.76

K = 38.97
VCL 110.00

PROPOSED PROFILE ELEVATION
EXISTING GROUND ELEVATION

1173+00	1173+50	1174+00	1174+50	1175+00	1175+50	1176+00	1176+50	1177+00	1177+50	1178+00	1178+50	1179+00	1179+50	1180+00	1180+50	1181+00	1181+50	1182+00	1182+50	1183+00	1183+50	1184+00	1184+50	1185+00	1185+50	1186+00	1186+50	1187+00	1187+50	1188+00
980.53	980.36	980.39	980.18	980.32	980.00	980.14	979.82	980.04	979.64	979.88	979.46	979.70	979.28	979.50	979.10	979.31	978.92	979.13	978.74	978.96	978.56	978.81	978.38	978.61	978.20	978.27	978.02	977.87	977.84	977.45	977.66	976.89	977.48	976.34	977.29	975.75	976.62	974.87	975.18	973.31	972.97	971.66	970.71	970.22	969.11	968.91	968.19	967.65	967.74	967.15	967.29	966.72	966.85	966.24	966.41	965.52	965.82	963.93	964.61	962.06	962.84

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN & PROFILE: VILLAGE OF RICHFIELD	SHEET 262	E

FILE NAME : W:\x-Projects\RD\7140\project 1 dgn\050108_pp.dgn PLOT DATE : 4/23/2015 PLOT BY : MikeC0 PLOT NAME : PLOT SCALE : 100.0000 sf / in.

WISDOT/CADDS SHEET 40

SEE "PLAN DETAIL - STH 175" SHEETS FOR DETAILS.

N

WISCONSIN & SOUTHERN RAILROAD

SEPTIC

SEPTIC

SEPTIC

SIGN

WETLAND BOUNDARY (TYP.)

SLOPE INTERCEPTS

PC 1189+86.08

PT 1193+54.02

RIGHT OF WAY

MESSIG

RIGHT OF WAY

STA 1188+00

MATCH LINE

1190+00

1195+00

1200+00

BM #12

TLE

RIGHT OF WAY

PI 1191+70.07

RICHFIELD FIRE DEPARTMENT

TLE

RIGHT OF WAY

WETLAND BOUNDARY (TYP.)

SLOPE INTERCEPTS

PI = 1191+70.07
Y 124 921.89
X 358 516.56
Δ = -1°50'23"
D = 0°30'00"
T = 183.99'
L = 367.95'
R = 11 459.16'
PC = 1189+86.08
PT = 1193+54.02
SE = N.C.
RO = N/A

BERNARD

END PROJECT 3360-09-70
STA 1194+05.00
MATCH EXISTING
SAWCUT REQD

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
11	1185+66	SE COR CONC SCALE	28.0'LT	966.70
12	1191+43	RR SPIKE IN POWER POLE	30.6'RT	957.73

5

5

975

970

965

960

955

950

945

940

3.71 %

VCL 200.00
K = 65.02

EXISTING GROUND

-0.63 %

PROPOSED PROFILE

VPC STA 1188+44.00
VPC EL 961.21

VPI STA 1189+44.00
VPI EL 957.50

VPT STA 1190+44.00
VPT EL 956.87

VPC STA 1193+99.00
VPC EL 954.64

MATCH EXISTING CURVE

1194+57.70
954.45

END PROJECT 3360-09-70
STA. 1194+05.00
MATCH EXISTING

VPI STA 1194+75.00
VPI EL 954.47

-0.45%

STATION 1192+50, RT
BEGIN SPECIAL DITCH

SPECIAL DITCH, RT

STATION 1194+75, RT
END SPECIAL DITCH

PROPOSED PROFILE ELEVATION

EXISTING GROUND ELEVATION

962.06	962.84	960.59	960.99	959.62	959.37	958.68	958.14	958.00	957.30	957.52	956.83	957.09	956.52	956.66	956.20	956.21	955.89	955.74	955.57	955.30	955.26	954.91	954.95	954.62	954.63	954.48	954.46	954.55	954.91	955.54	956.43	957.60	959.02

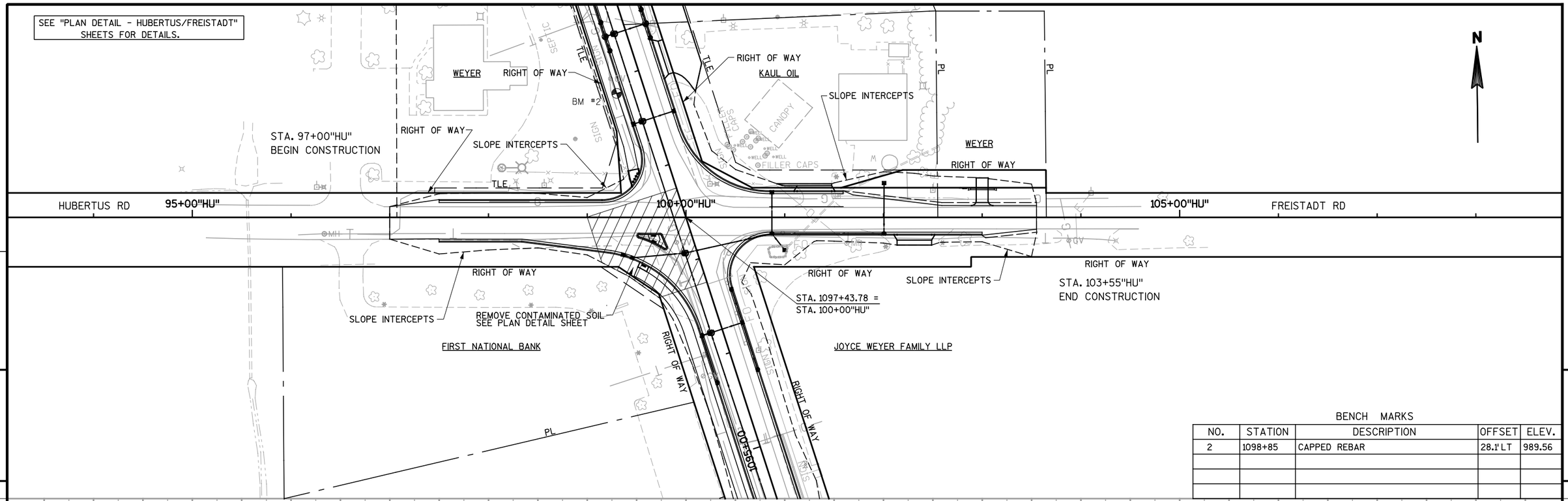
1188+00 1188+50 1189+00 1189+50 1190+00 1190+50 1191+00 1191+50 1192+00 1192+50 1193+00 1193+50 1194+00 1194+50 1195+00 1195+50 1196+00 1196+50 1197+00 1197+50

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN & PROFILE: VILLAGE OF RICHFIELD	SHEET 263	E

FILE NAME : W:\x-Projects\RD\7140\project 1 dgn\050109_pp.dgn PLOT DATE : 2/24/2015 PLOT BY : Jim0 PLOT NAME : PLOT SCALE : 100.0001 sf / in.

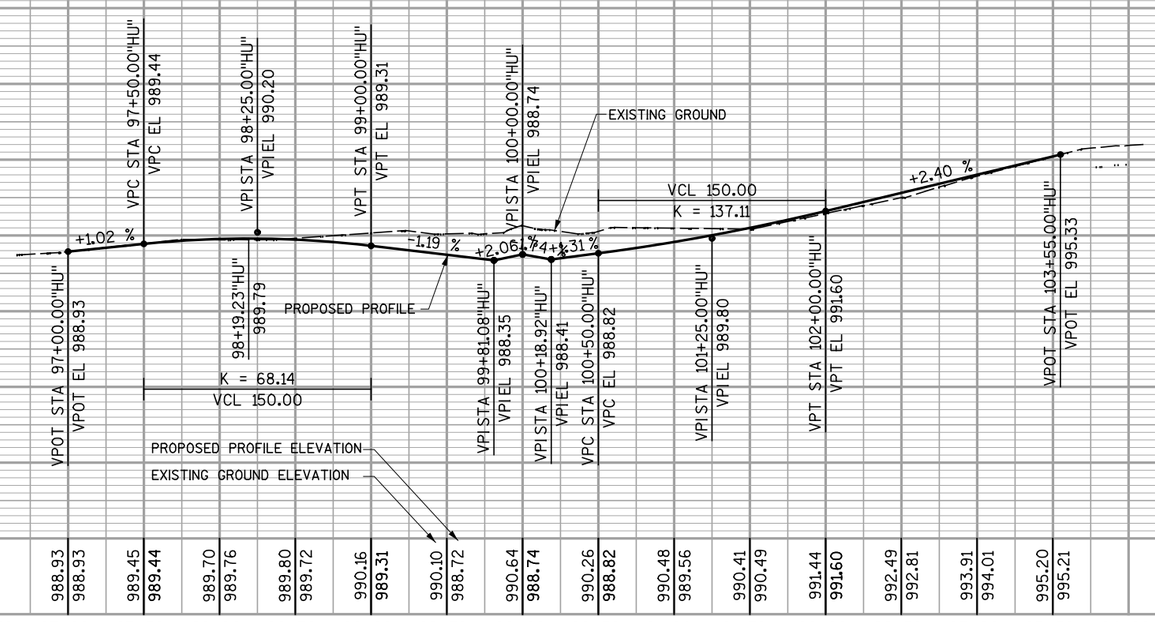
WISDOT/CADDS SHEET 40

SEE "PLAN DETAIL - HUBERTUS/FREISTADT" SHEETS FOR DETAILS.

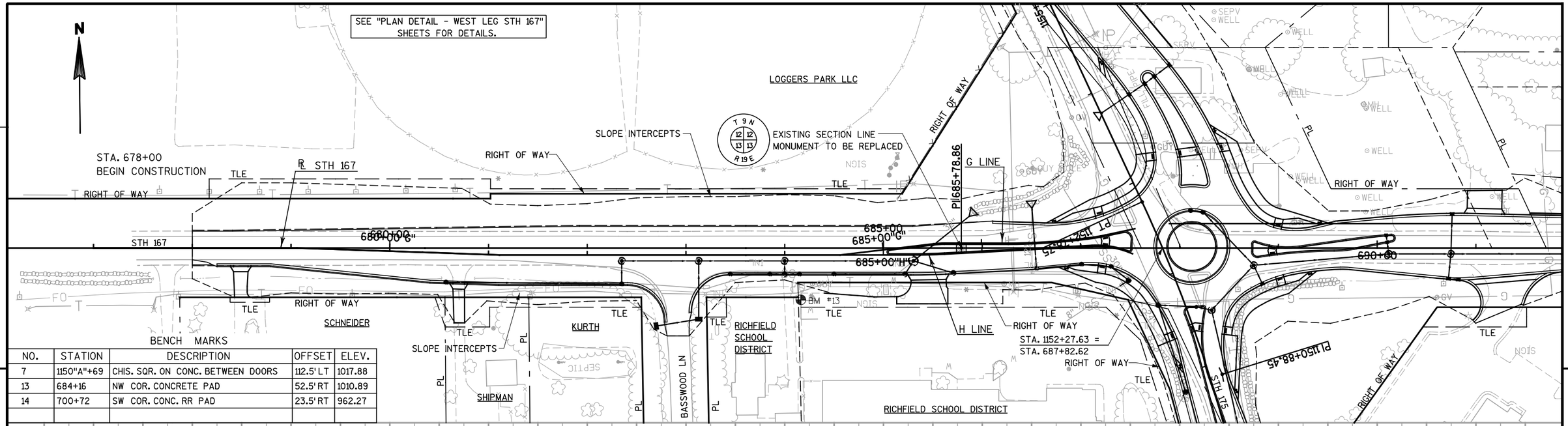


BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
2	1098+85	CAPPED REBAR	28.1' LT	989.56

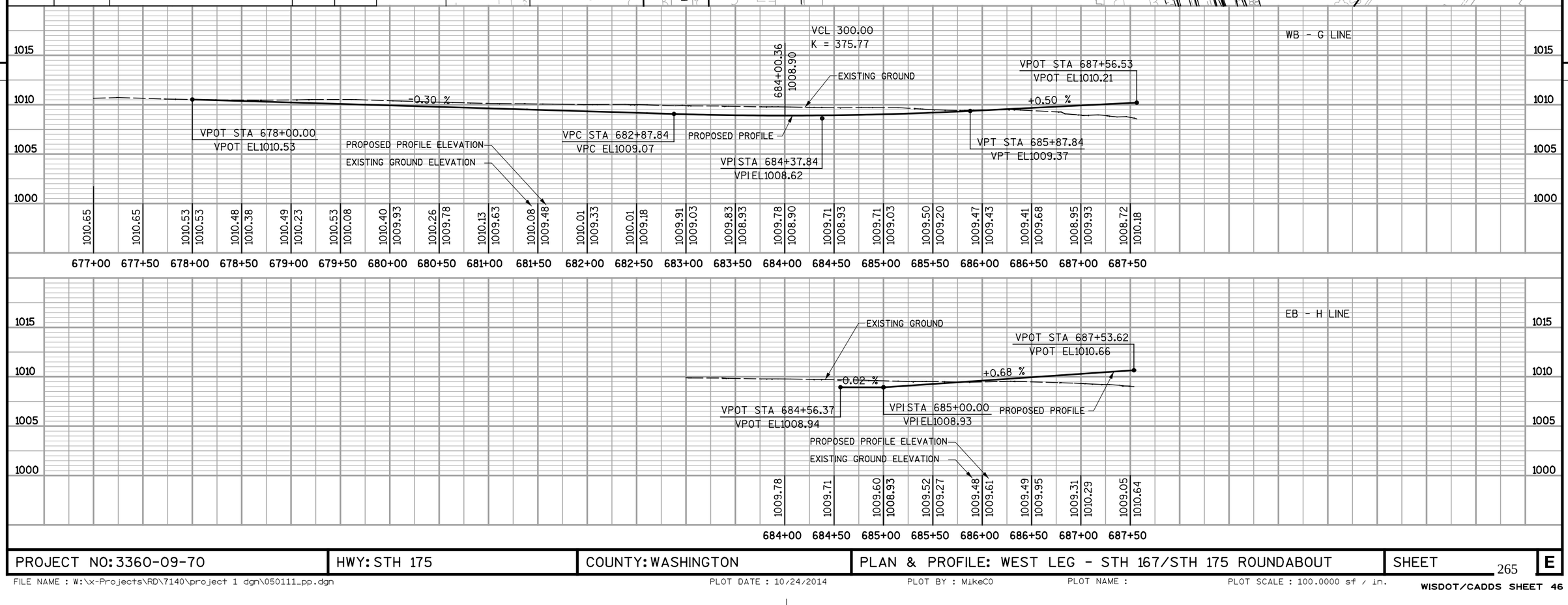


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN & PROFILE: HUBERTUS/FREISTADT	SHEET 264	E

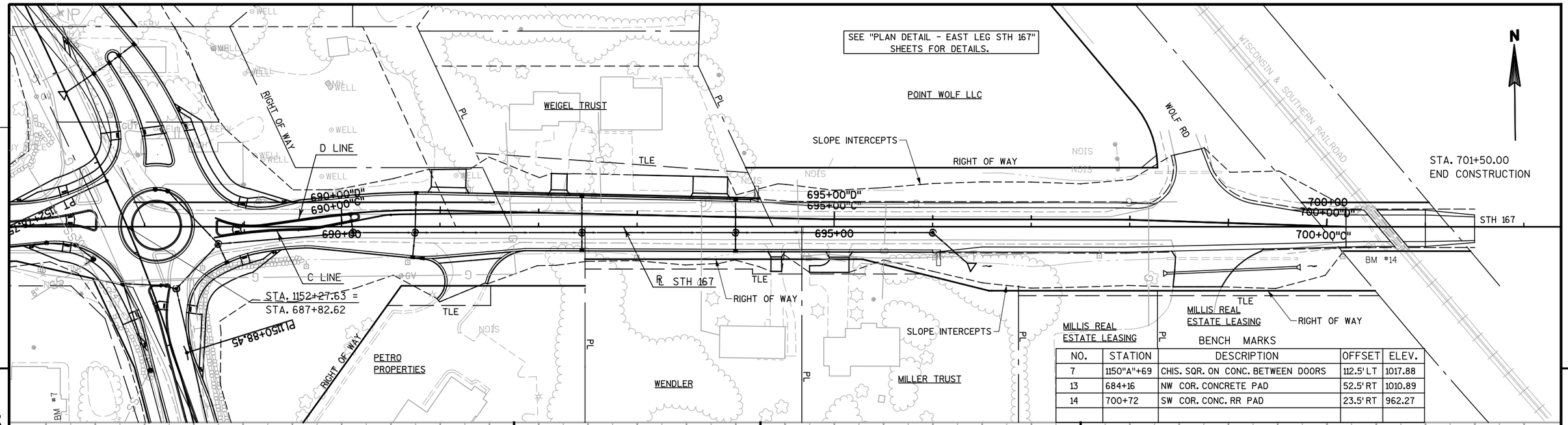


BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
7	1150"A"+69	CHIS. SQR. ON CONC. BETWEEN DOORS	112.5' LT	1017.88
13	684+16	NW COR. CONCRETE PAD	52.5' RT	1010.89
14	700+72	SW COR. CONC. RR PAD	23.5' RT	962.27

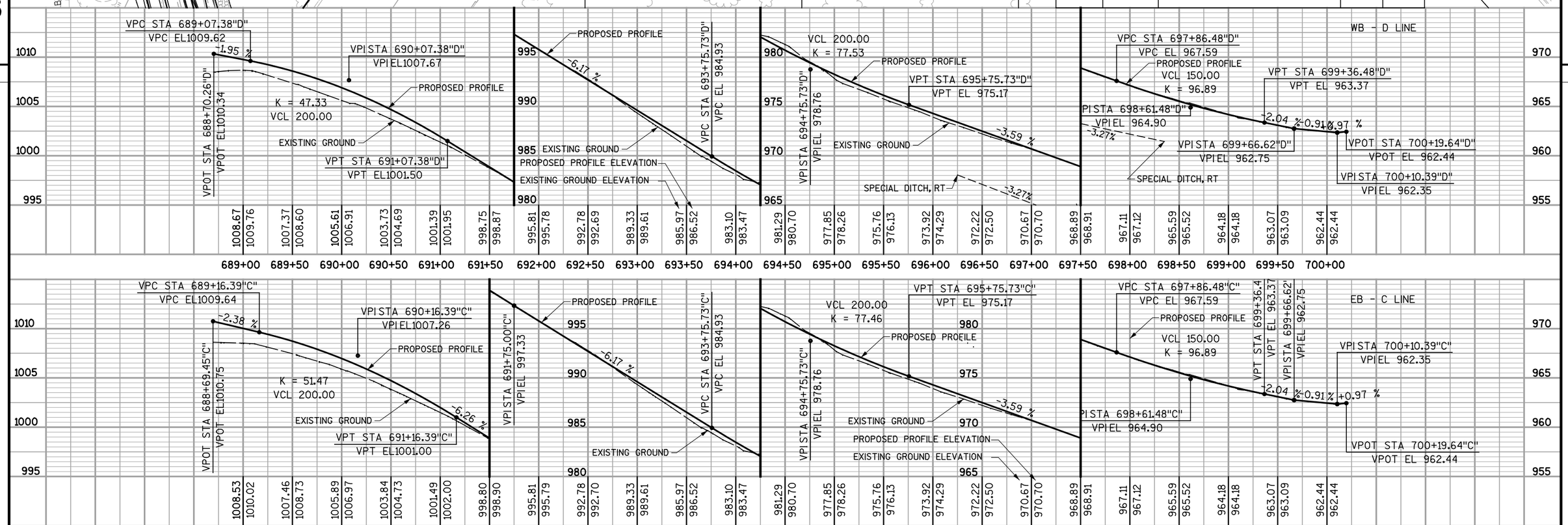


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN & PROFILE: WEST LEG - STH 167/STH 175 ROUNDABOUT	SHEET 265	E



BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
7	1150"A"+69	CHIS. SQR. ON CONC. BETWEEN DOORS	112.5' LT	1017.88
13	684+16	NW COR. CONCRETE PAD	52.5' RT	1010.89
14	700+72	SW COR. CONC. RR PAD	23.5' RT	962.27



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PLAN & PROFILE: EAST LEG - STH 167/STH 175 ROUNDABOUT	SHEET 266	E

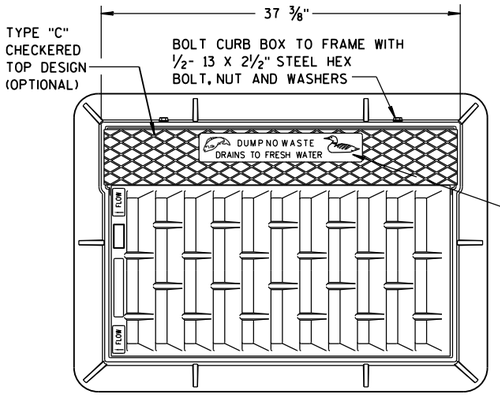
Standard Detail Drawing List

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
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-15A	CURB RAMPS TYPES 1 AND 1-A
08D05-15B	CURB RAMPS TYPES 2 AND 3
08D05-15C	CURB RAMPS TYPES 4A AND 4A1
08D05-15D	CURB RAMPS TYPE 4B AND 4B1
08D05-15E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F05-01	CLASS "B" BEDDING FOR CULVERT PIPE OR STORM SEWER
09B02-09	CONDUIT
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C14-02	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-01	LIGHTING CONTROL CABINET
09E01-14D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
10A01-03	ELECTRICAL HANDHOLE WIRING
10A02-02	IDENTIFICATION PLAQUES LIGHT POLES
10A02-03	IDENTIFICATION PLAQUES LIGHT POLES
10A05-02	ELECTRICAL DETAILS GROUND MOUNT LIGHT POLES ISOLATED NEUTRAL SYSTEMS
11B02-02	CONCRETE MEDIAN NOSE
13B01-10	PAVEMENT DETAILS FOR RAILROAD APPROACH
13C01-17	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C18-02A	CONCRETE PAVEMENT JOINTING
13C18-02B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-02C	CONCRETE PAVEMENT JOINT TIES
13C18-02D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-02E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
14A02-01	TREE PLANTING DETAIL
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-02	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C07-12D	ROUNDABOUT ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C09-09A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C11-05	FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES
15C18-03	MEDIAN ISLAND MARKING
15C24-02	36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D28-02	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

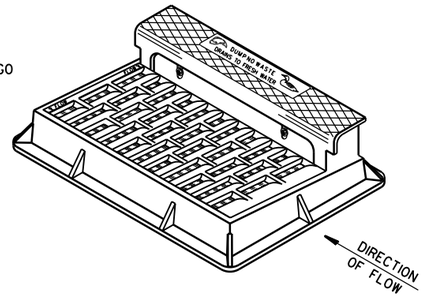
6

Standard Detail Drawing List

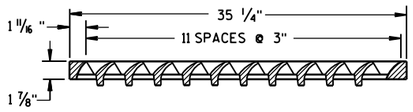
15D30-02A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-02B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-02C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS

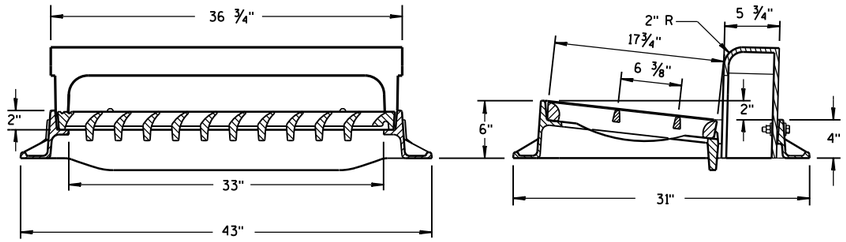


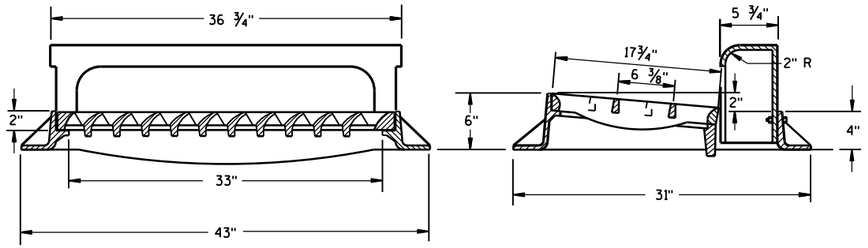
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

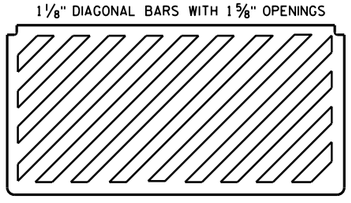






TYPE "H"

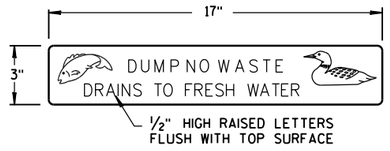
NOTE: EITHER CASTING IS ACCEPTABLE



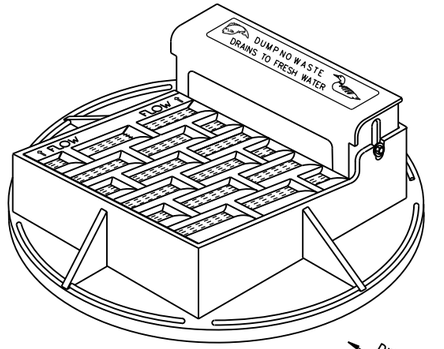
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

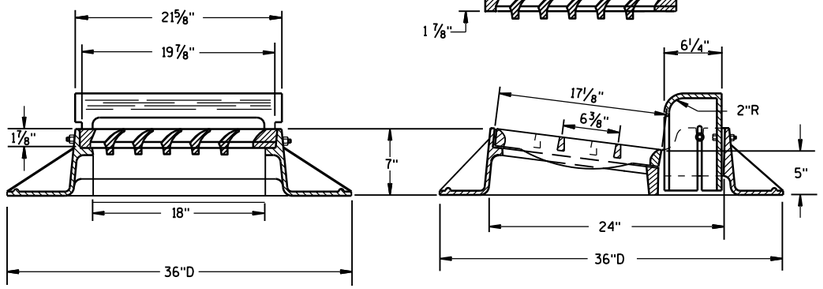


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



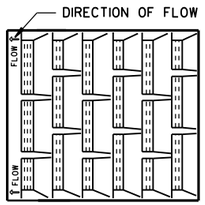
TYPE "A"

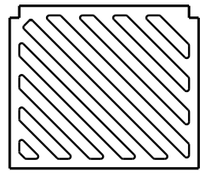
GENERAL NOTES

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.

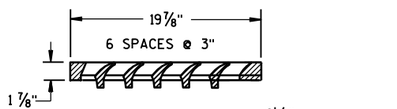


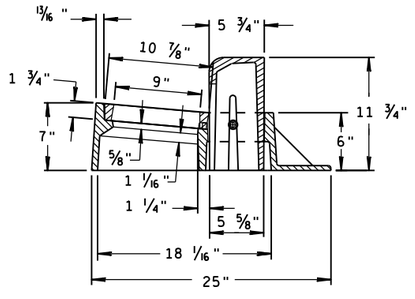


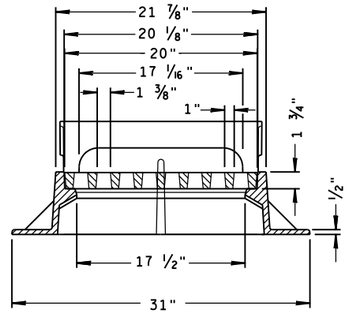
SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 19 3/4" X 17" X 1 7/8")

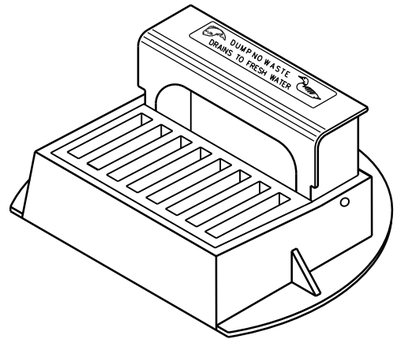
(NOTED AS TYPE A-S ON DRAINAGE TABLE)







TYPE "Z"



INLET COVERS
TYPE A, H, A-S, H-S & Z

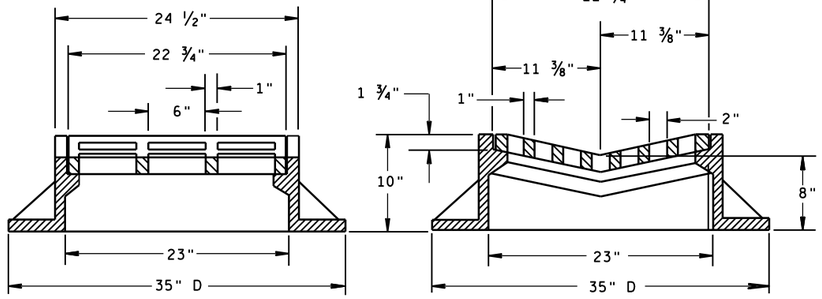
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

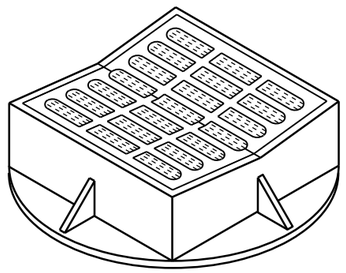
APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

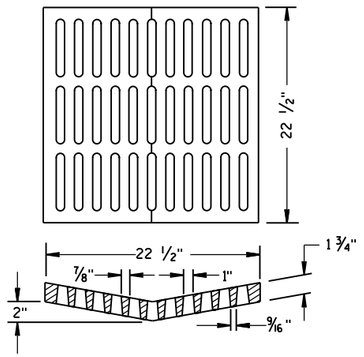
S.D.D. 8 A 5-19a

S.D.D. 8 A 5-19a



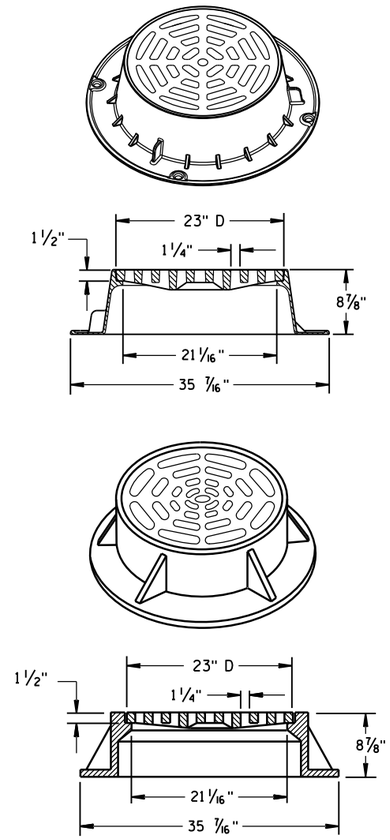


TYPE "B"



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"

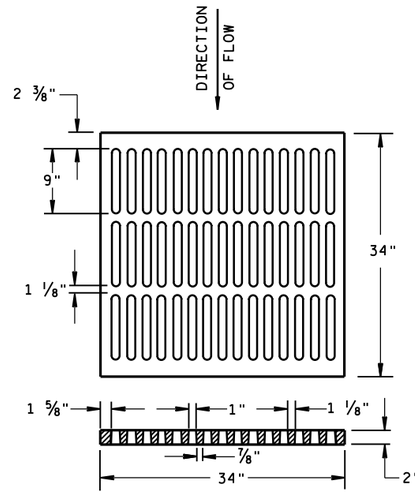
NOTE: EITHER CASTING IS ACCEPTABLE

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.

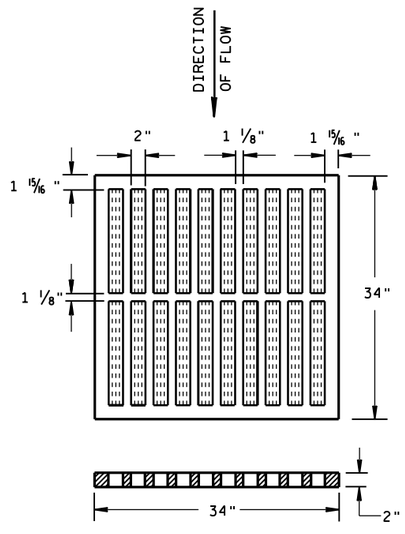
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



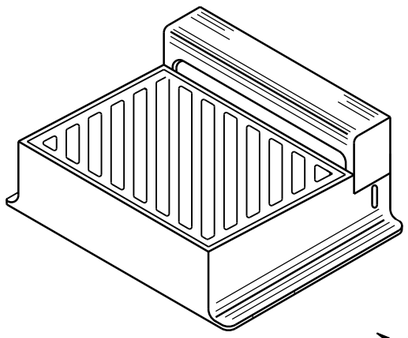
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

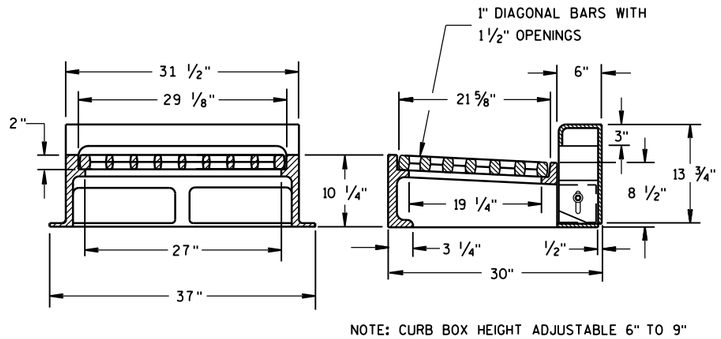


TYPE "MS"

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"

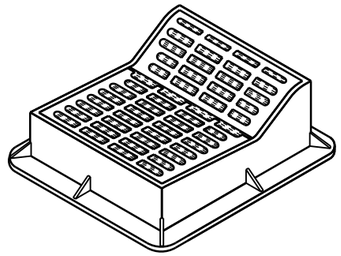
INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM

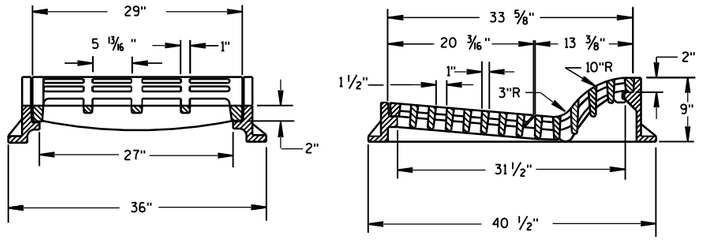
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

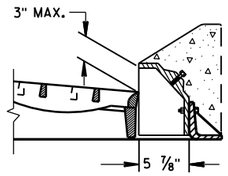
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

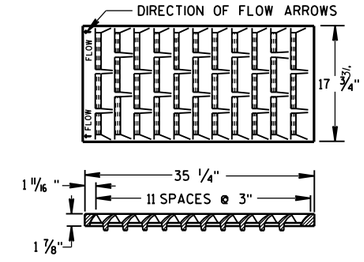
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

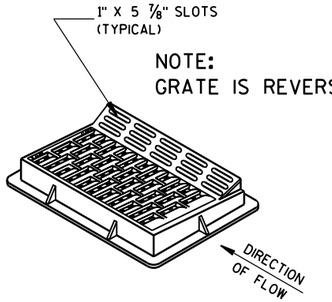
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

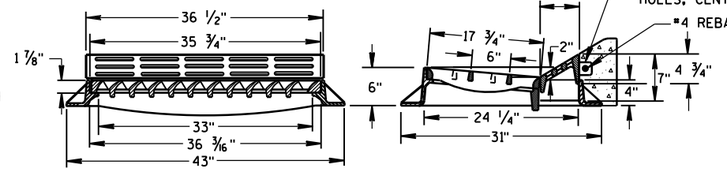
GENERAL NOTES

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 INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



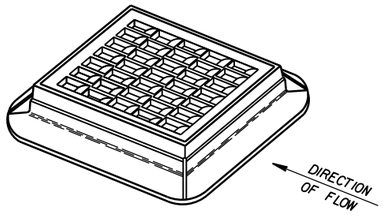


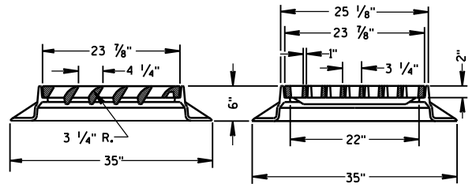


TYPE "HM"

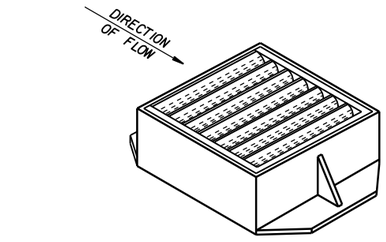
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

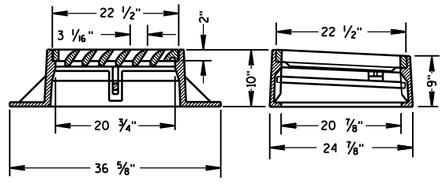
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



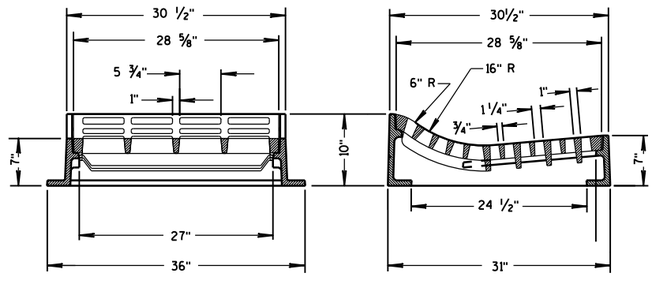


TYPE "S"



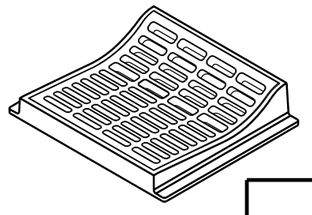


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

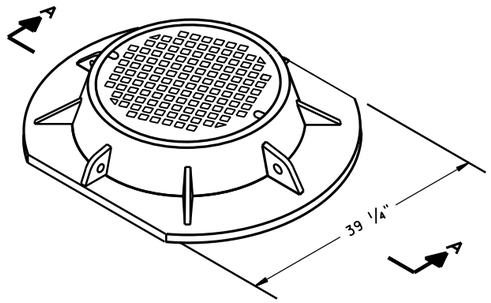
FHWA

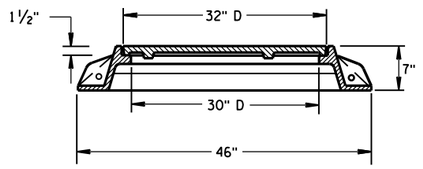
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S.D.D. 8 A 5-19c

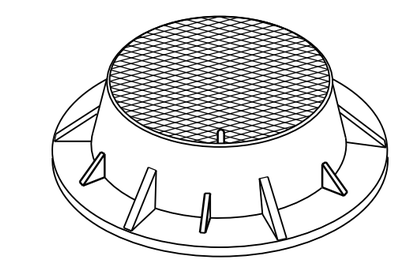
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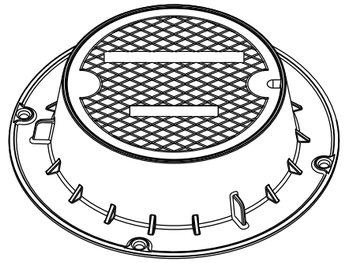
S.D.D. 8 A 5-19c

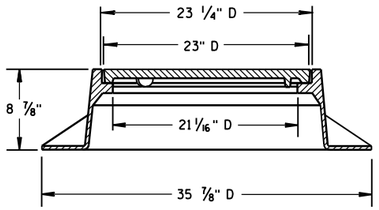


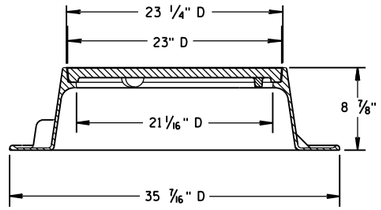


SECTION A-A
TYPE "K"









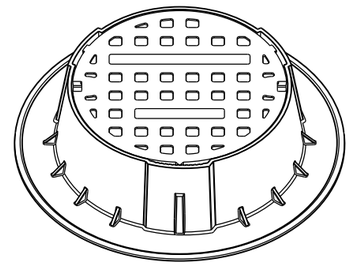
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

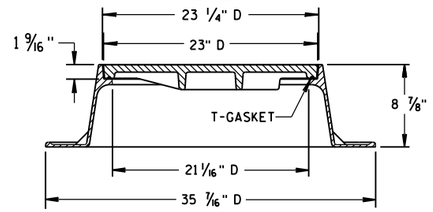
GENERAL NOTES

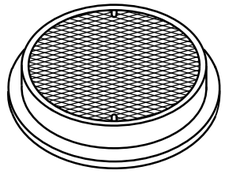
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

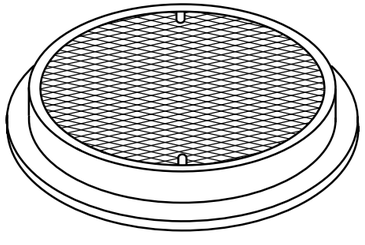
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

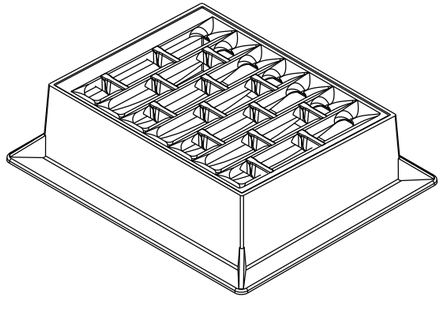
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

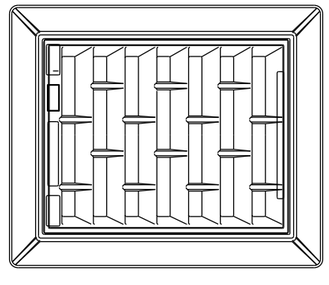


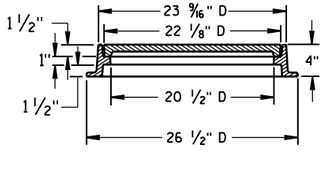




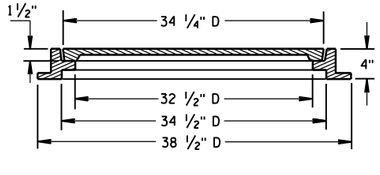




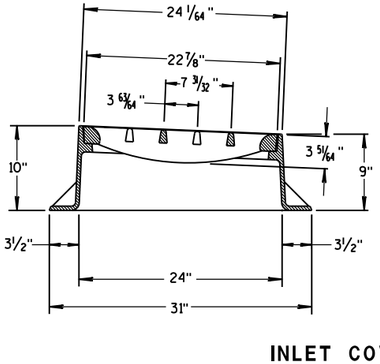


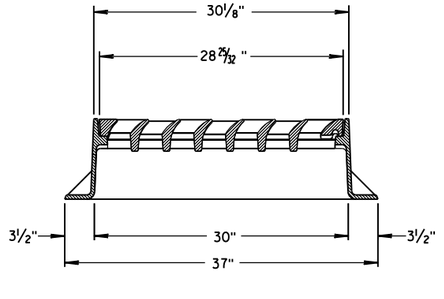


TYPE "L"

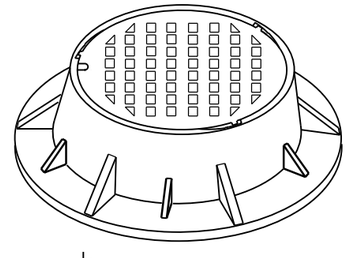


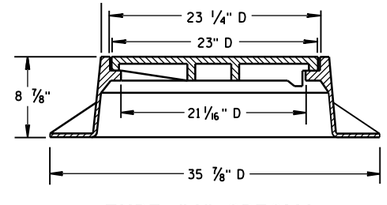
TYPE "M"





INLET COVER TYPE "BW"





TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE

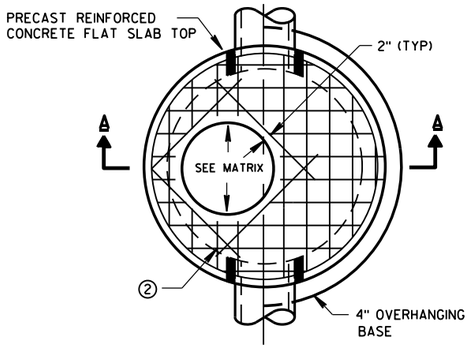
INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

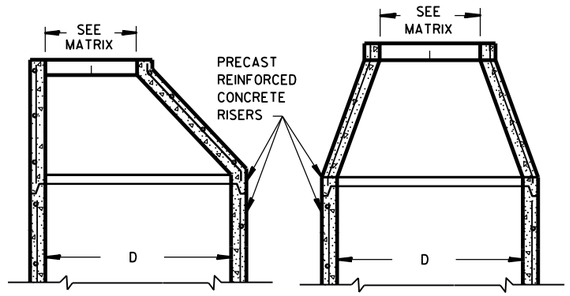
APPROVED
11/27/2013
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS D 272
ENGINEER

6
S.D.D. 8 A 5-19d

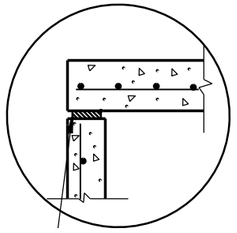


PLAN VIEW CIRCULAR OPENING

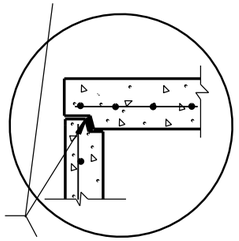


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

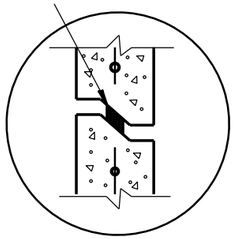


TOP WITH PLAIN END JOINT



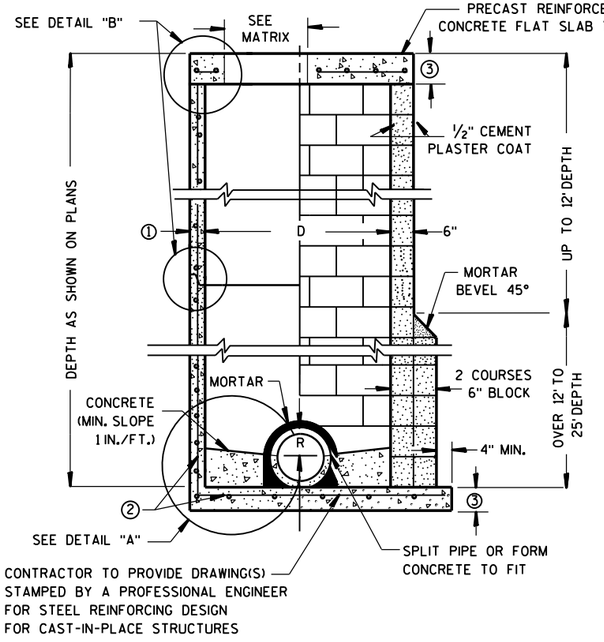
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



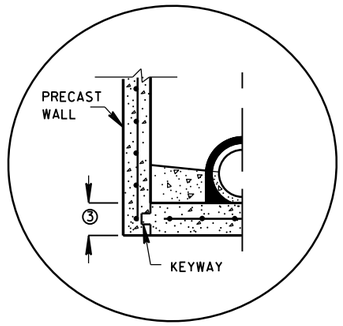
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

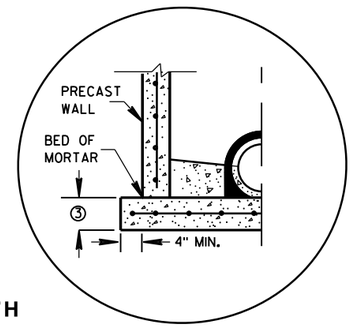


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

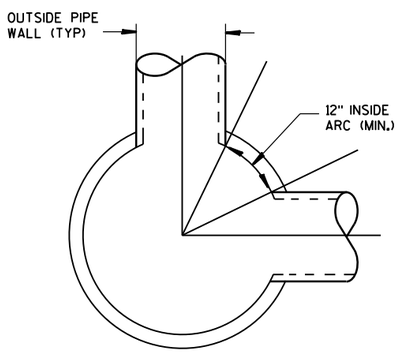


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



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 GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

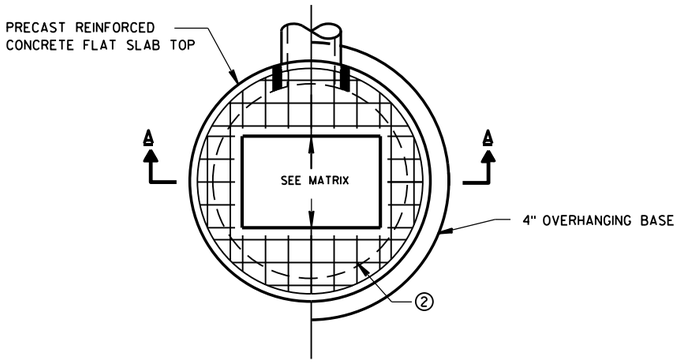
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

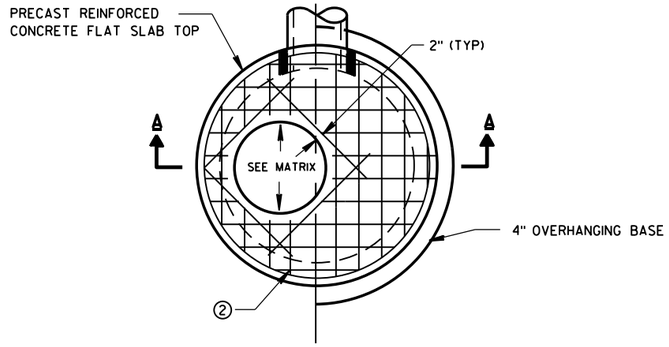
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

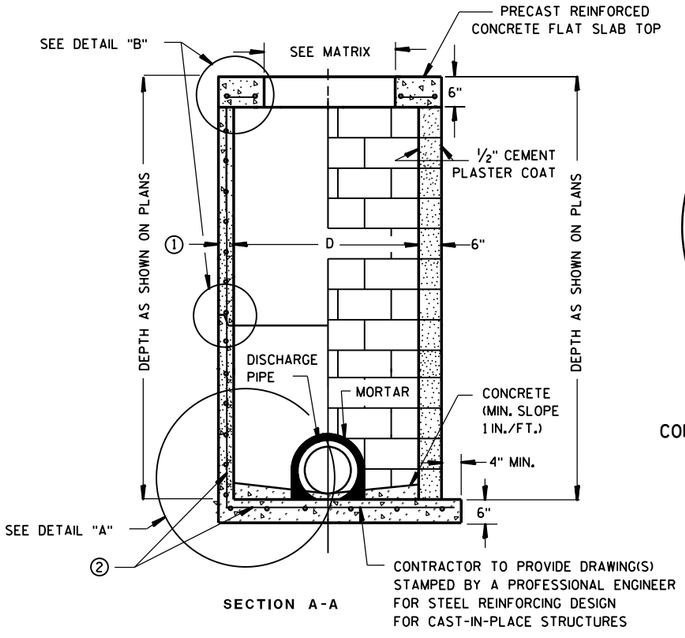
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S.D.D. 8 B 9-1



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

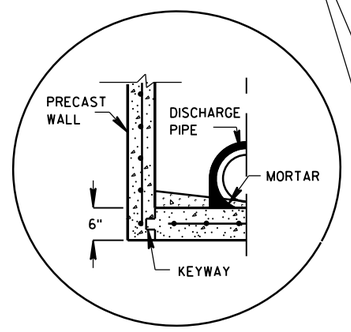


SECTION A-A

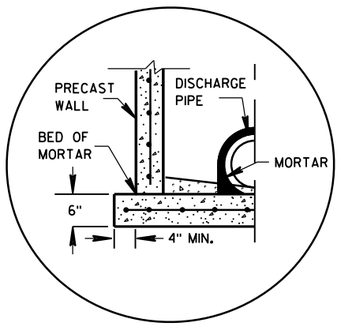
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

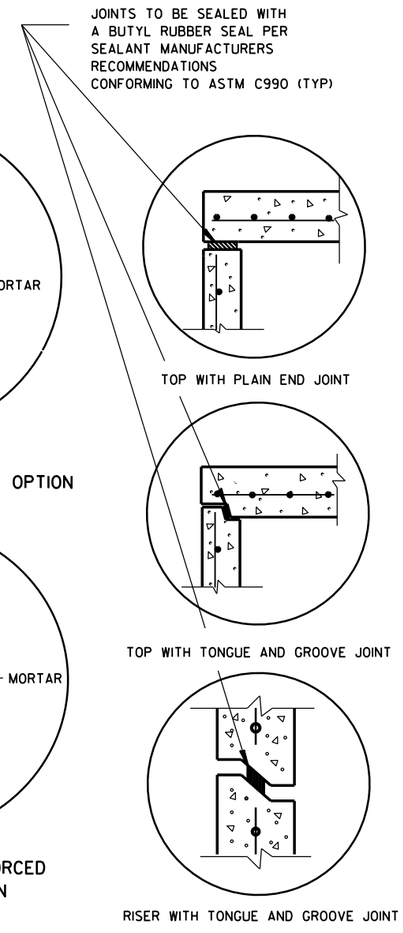


PRECAST REINFORCED
CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED
CONCRETE BASE OPTION

DETAIL "A"



DETAIL "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.

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 DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

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.

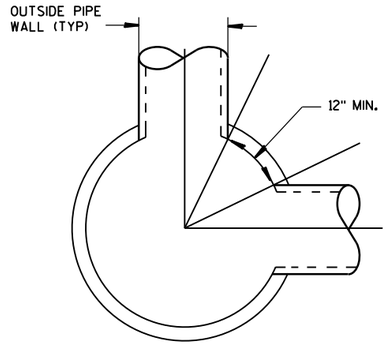
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

INLET SIZE	INLET COVER TYPE / OPENING SIZE (FT)	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

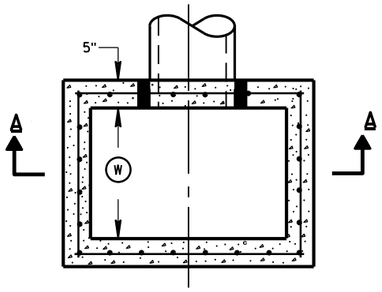
INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

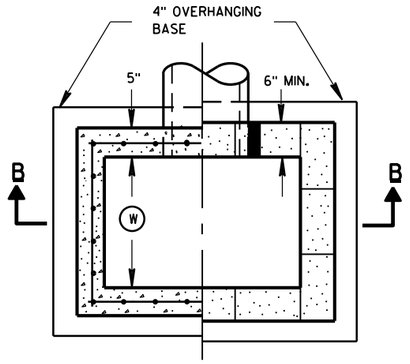
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 C 6-1

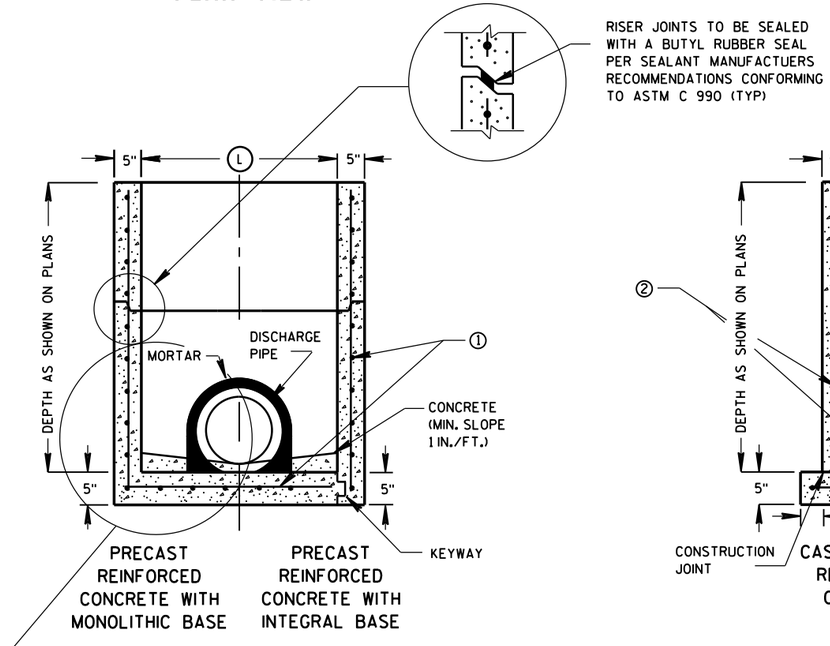
INLETS 3-FT AND 4-FT DIAMETER



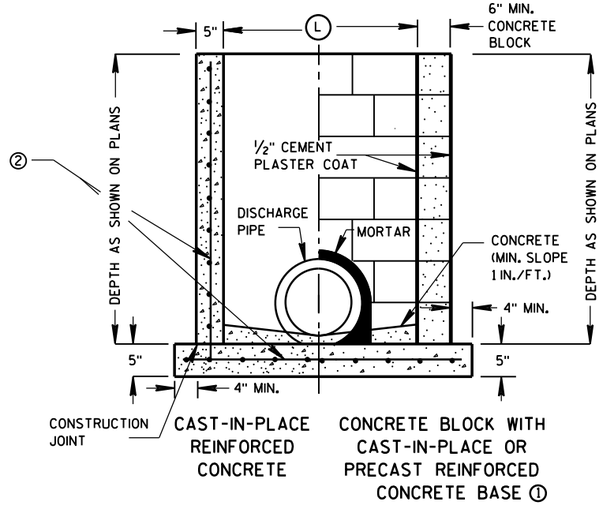
PLAN VIEW



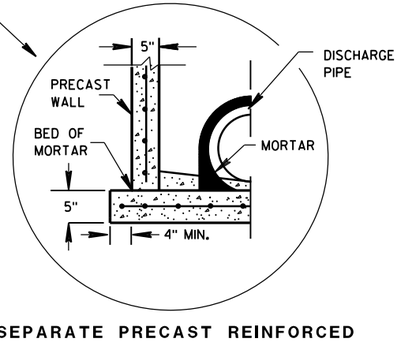
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

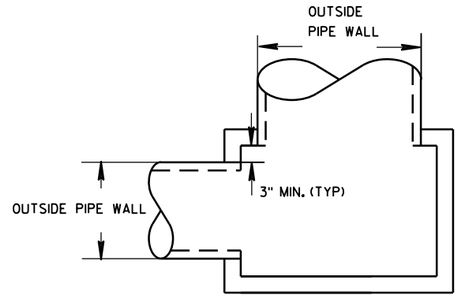
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

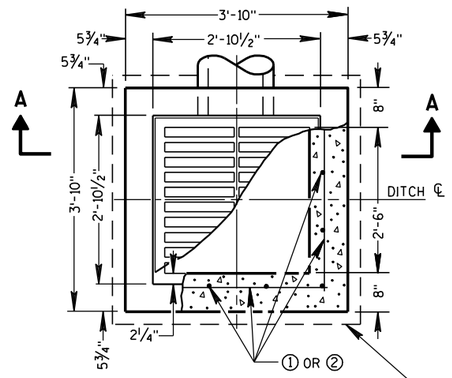
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

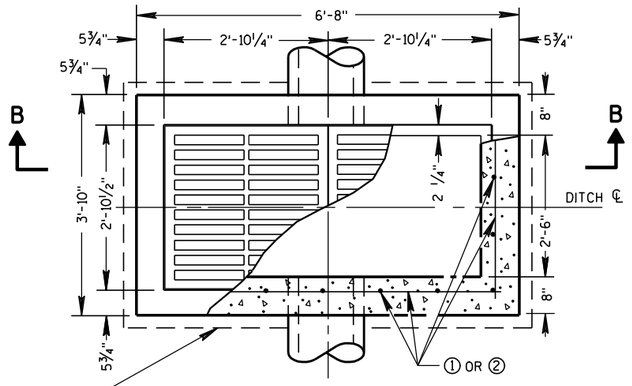
APPROVED
6/5/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DE ENGINEER
FHWA

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S.D.D. 8 C 7-1

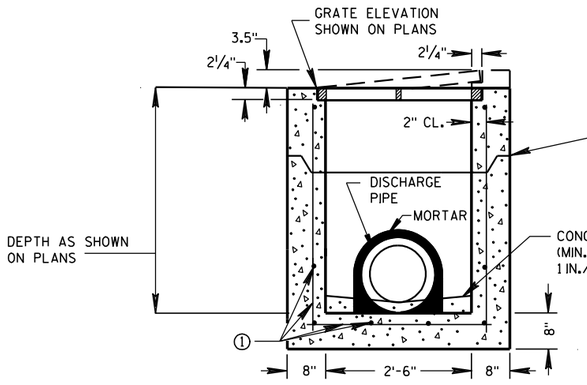


PLAN VIEW

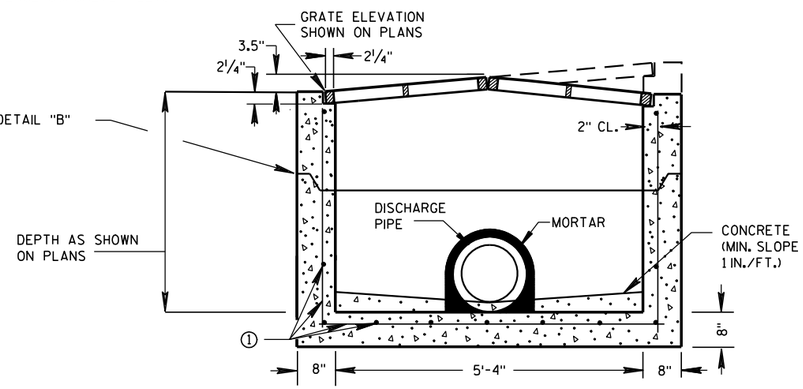


PLAN VIEW

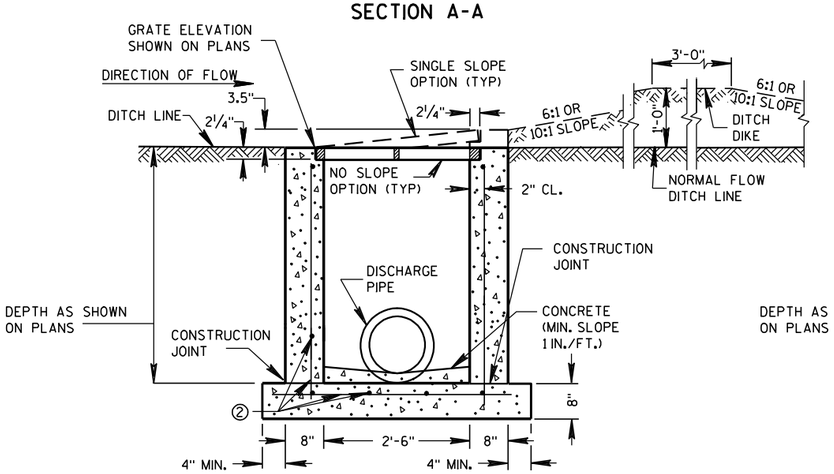
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



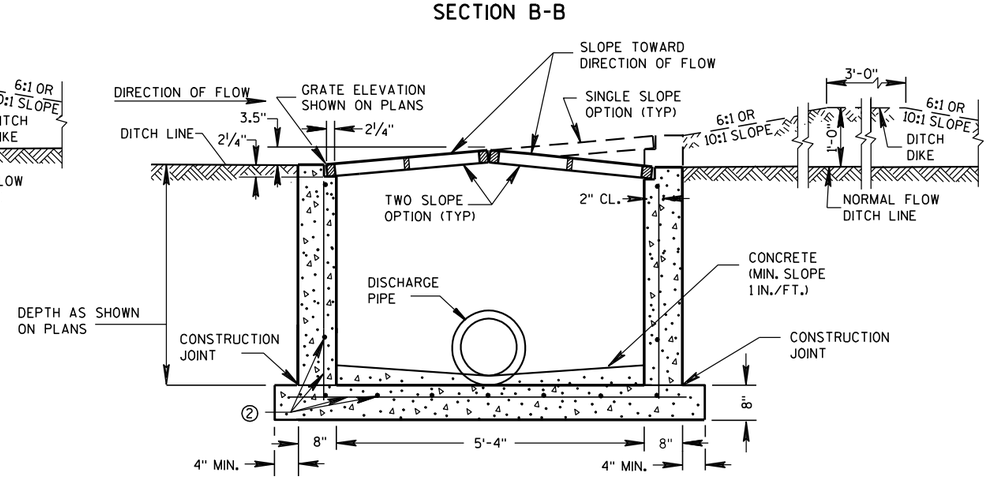
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

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 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.

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.

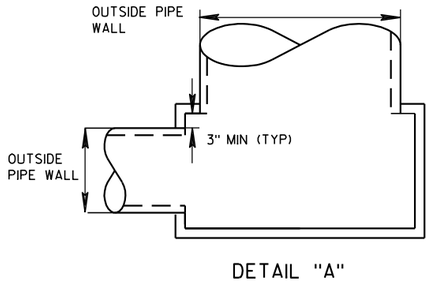
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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.

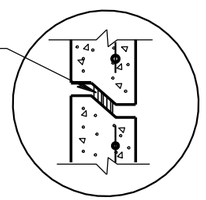
PIPE MATRIX

	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

6/5/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

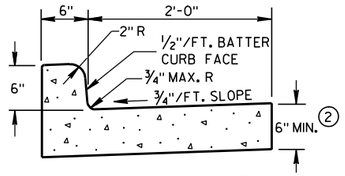
FHWA

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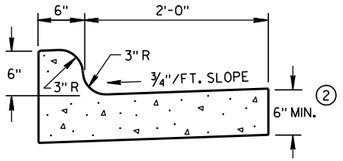
S.D.D. 8 C 8-1

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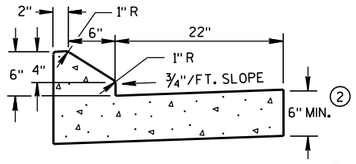
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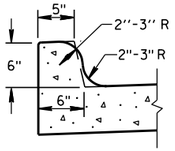
TYPES A & D (1)



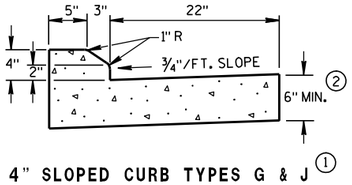
TYPES K & L (1)



6" SLOPED CURB TYPES G & J (1)

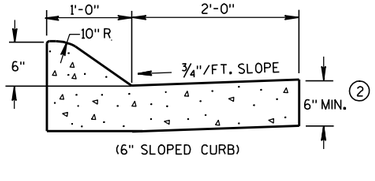


OPTIONAL CURB SHAPE FOR TYPES K & L (1)

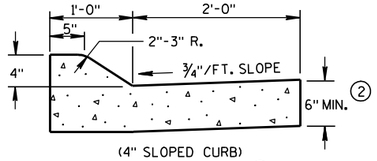


4" SLOPED CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

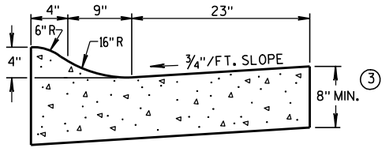


(6" SLOPED CURB)



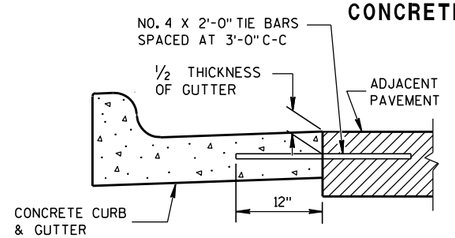
(4" SLOPED CURB)

TYPES A & D (1)

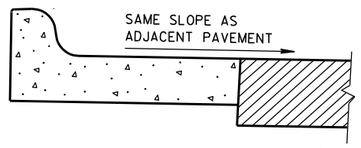


4" SLOPED CURB TYPES R & T (1) (4)

CONCRETE CURB & GUTTER 36"



TYPICAL TIE BAR LOCATION (1)



REVERSE SLOPE GUTTER (5)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

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

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

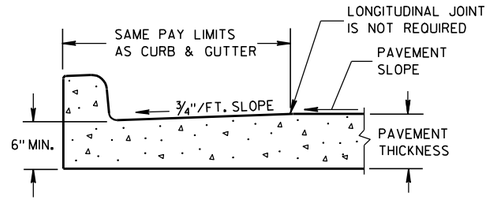
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

(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.

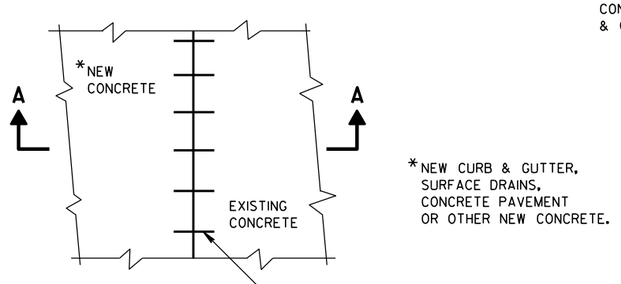
(3) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(4) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(5) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



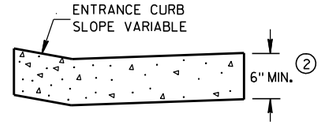
PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



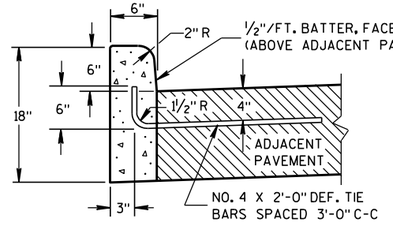
PLAN VIEW

SECTION A-A

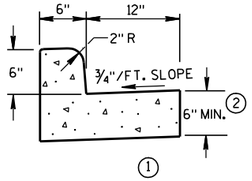
TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

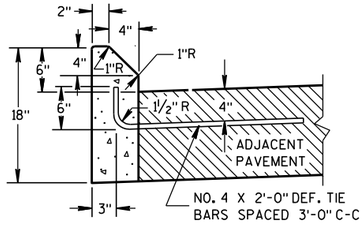


(1) TYPES A & D

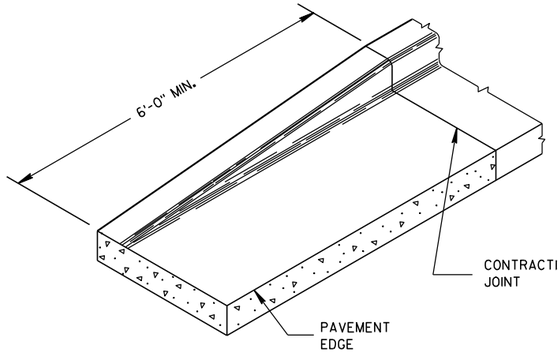


(1) TYPES A & D

CONCRETE CURB & GUTTER 18"



(1) TYPES G & J



END SECTION CURB & GUTTER

CONCRETE CURB

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

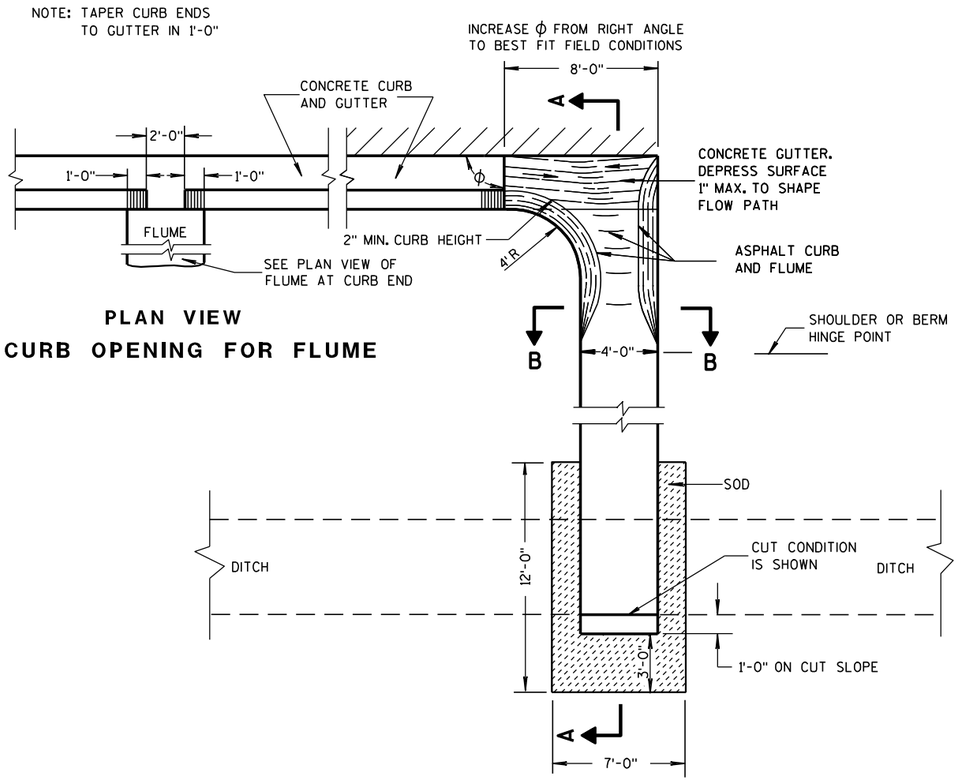
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/4/08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
277
FHWA

6

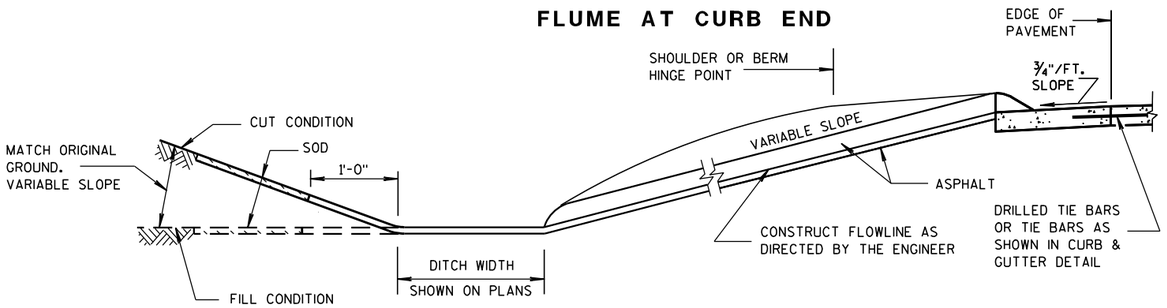
S.D.D. 8 D 1-17

ASPHALTIC FLUME

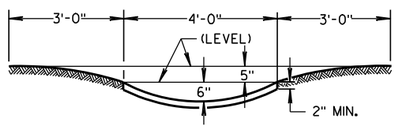


PLAN VIEW
CURB OPENING FOR FLUME

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.

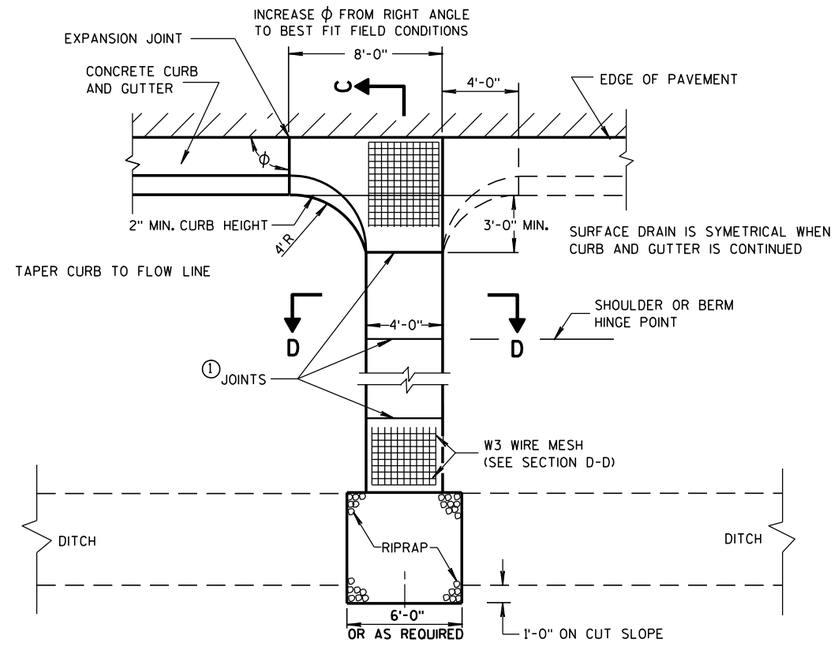
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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.

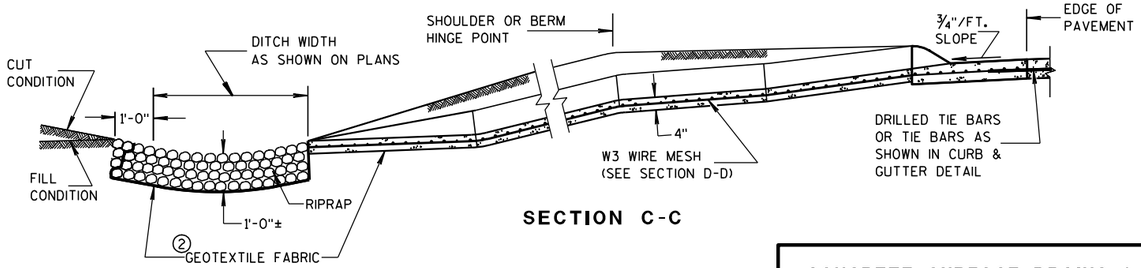
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

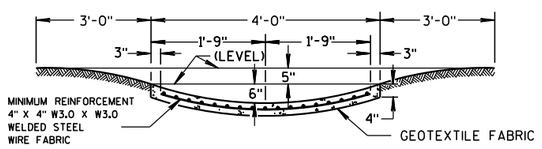
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

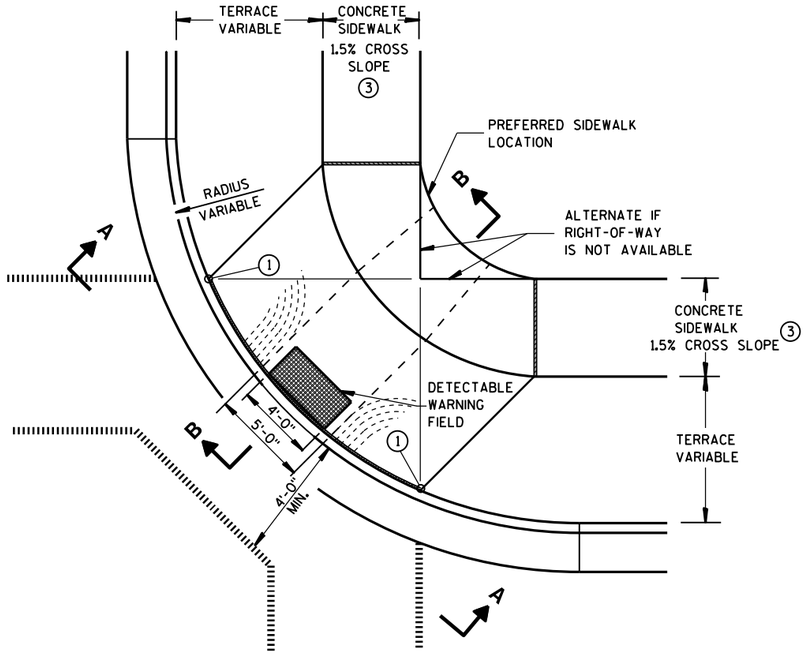
APPROVED
9-4-08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
278
[illegible]MENT
FHWA

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S.D.D. 8 D 4-5

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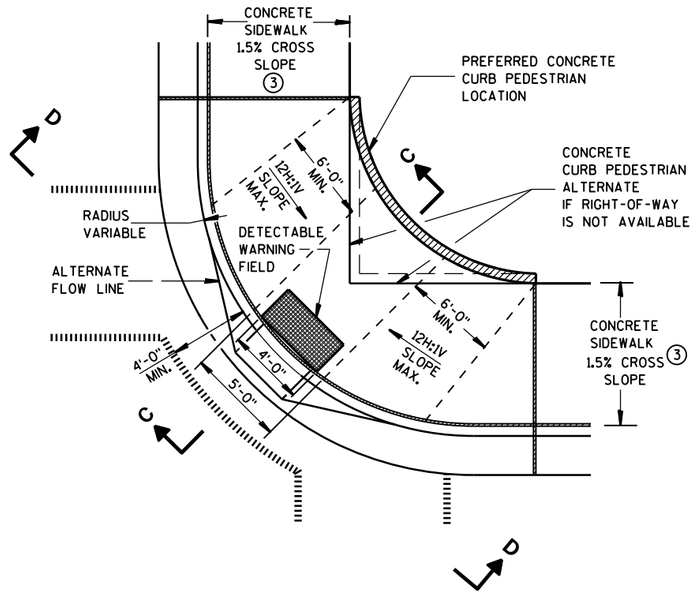
S.D.D. 8 D 4-5



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

GENERAL NOTES

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.

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. 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.

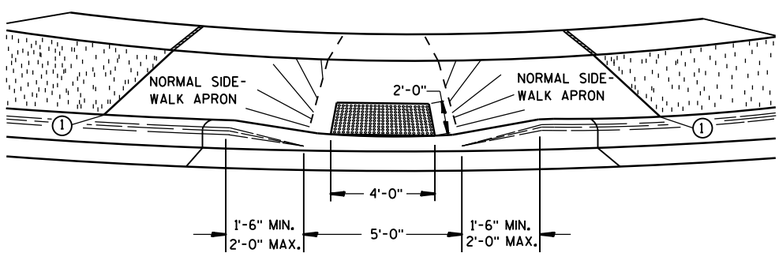
① THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.

② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

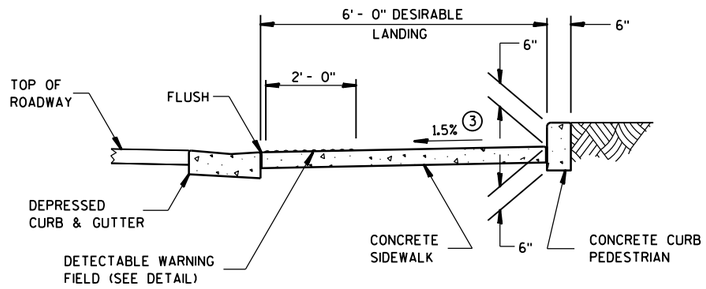
③ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

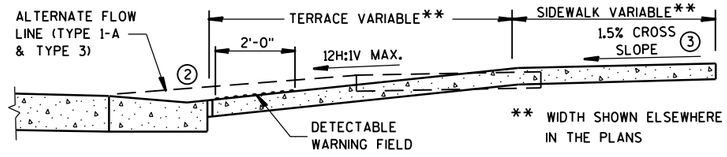
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



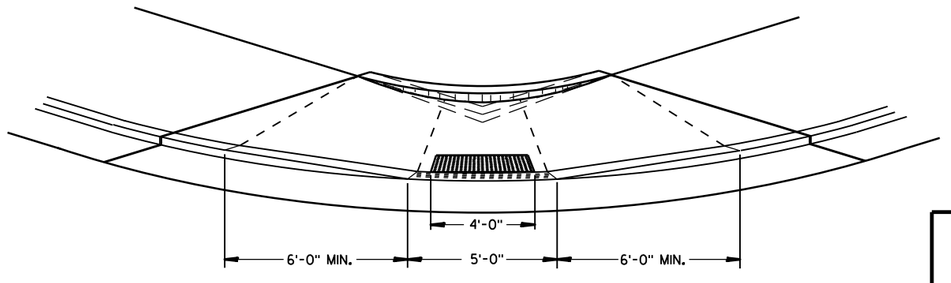
VIEW A-A



SECTION C-C



SECTION B-B



VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

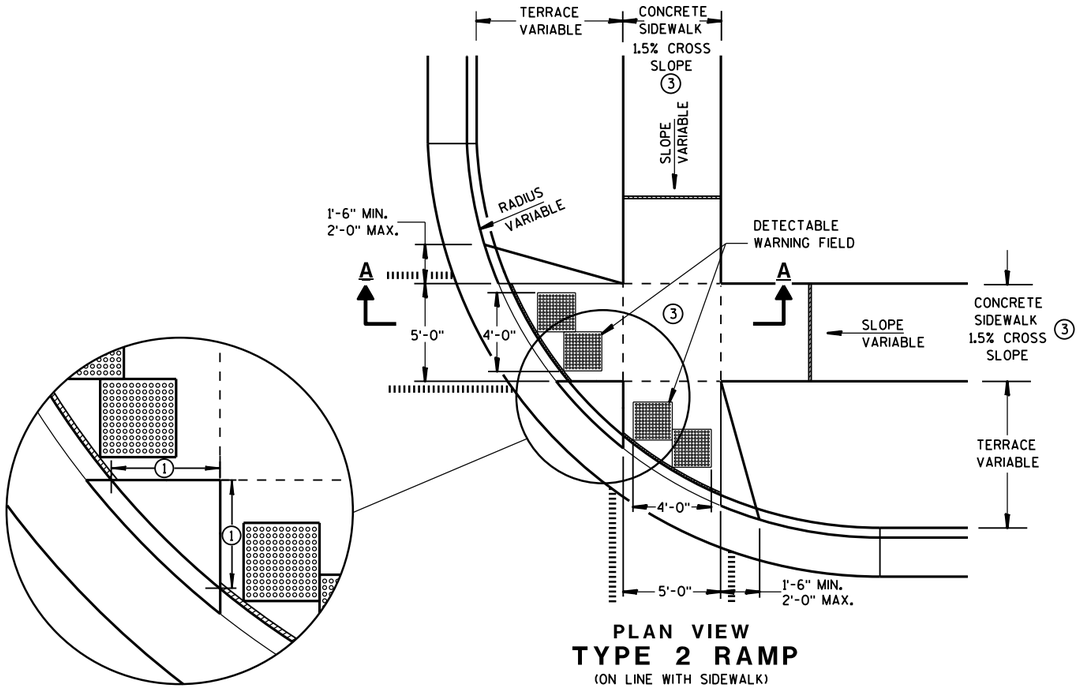
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-15a

6

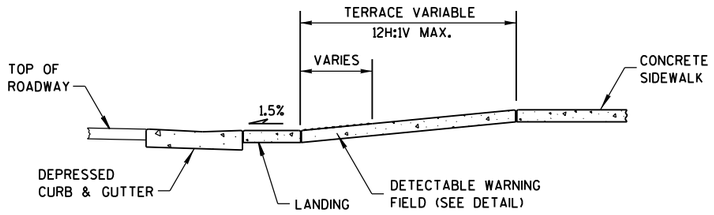
S.D.D. 8 D 5-15a



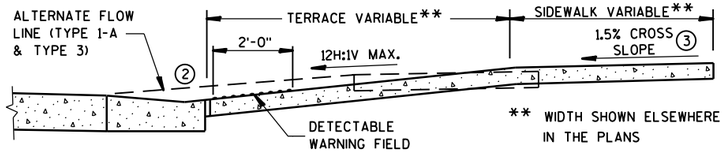
PLAN VIEW

TYPE 2 RAMP

(ON LINE WITH SIDEWALK)



SECTION A-A



SECTION B-B

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

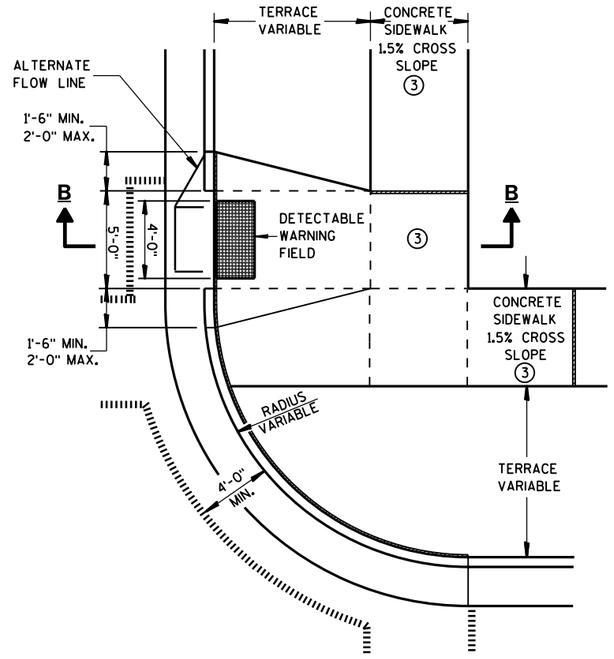
① WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.

② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

③ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



PLAN VIEW

TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

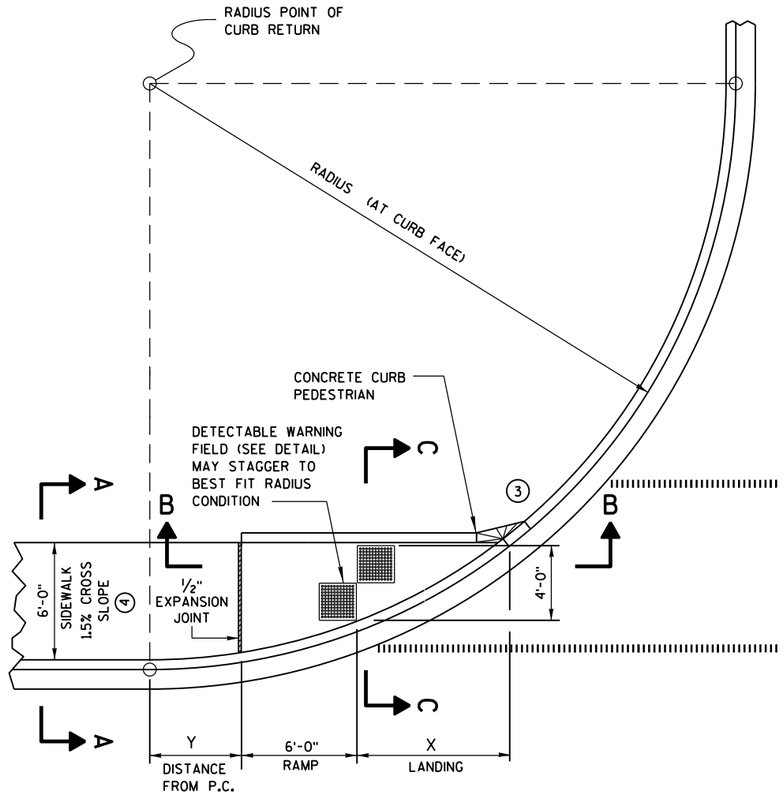
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

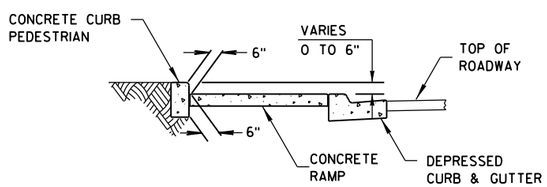
S.D.D. 8 D 5-15b

6

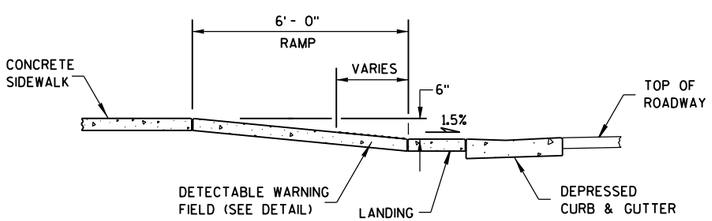
S.D.D. 8 D 5-15b



CURB RAMP TYPE 4A
PLAN VIEW



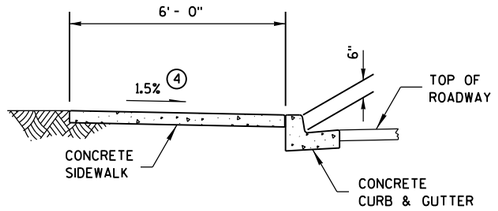
SECTION C-C FOR TYPE 4A



SECTION B-B FOR TYPE 4A

RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

GENERAL NOTES

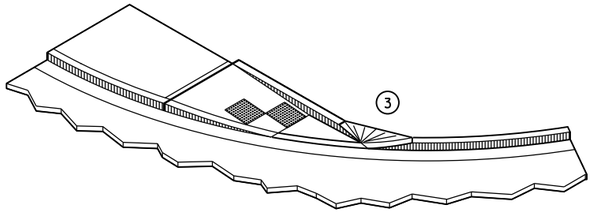
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

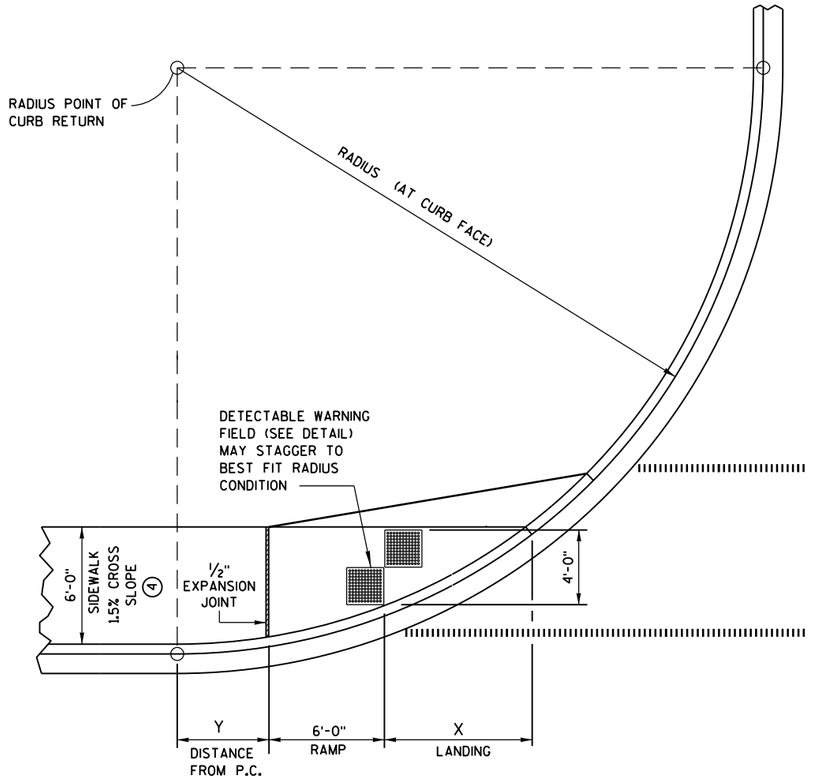
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

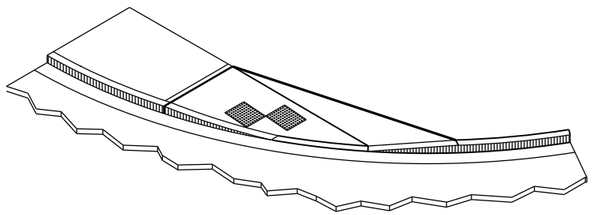
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



ISOMETRIC VIEW FOR TYPE 4A



CURB RAMP TYPE 4A1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

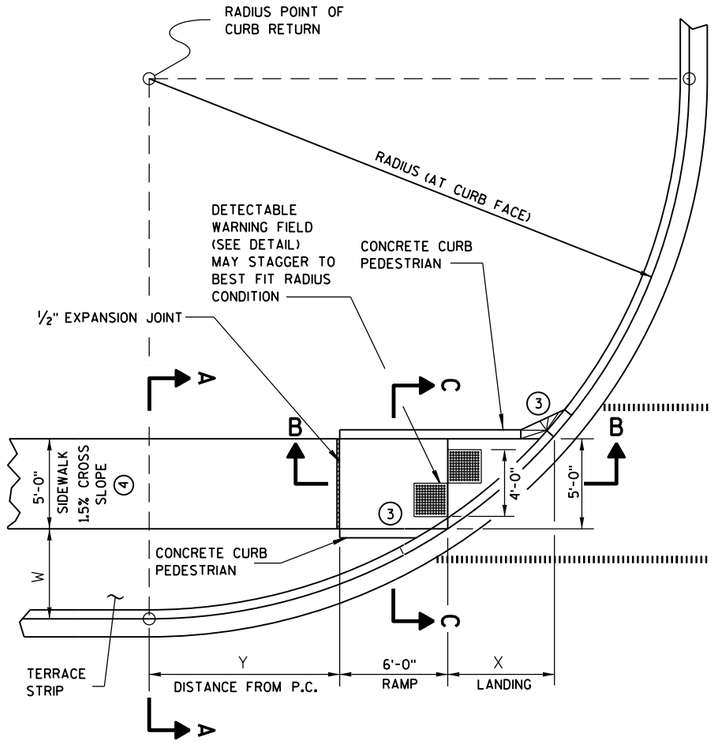
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

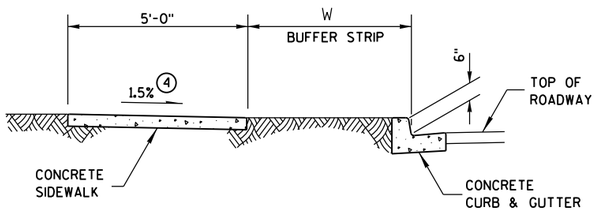
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

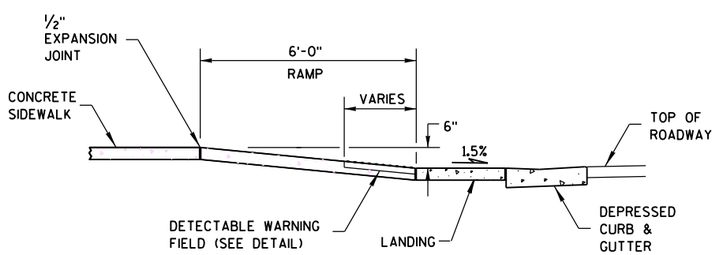
S.D.D. 8 D 5-15c



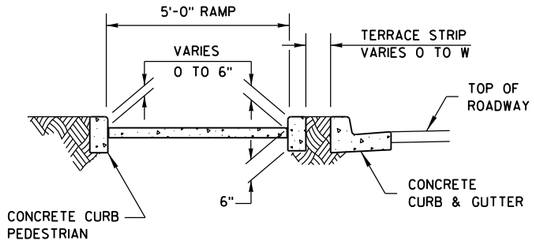
CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



SECTION B-B FOR TYPE 4B



SECTION C-C FOR TYPE 4B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-5½"	4'-6½"	4'-8½"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-3½"	3'-1½"	9'-2½"
30 FEET	7'-3¾"	7'-1"	6'-5½"	8'-11½"	5'-9¼"	10'-7"	5'-2½"	12'-0"	4'-8¾"	13'-3¼"
40 FEET	8'-9½"	9'-2½"	7'-10"	11'-5¼"	7'-1"	13'-4½"	6'-5¾"	15'-¾"	5'-11½"	16'-7¼"
50 FEET	10'-¾"	11'-¾"	9'-¼"	13'-7¼"	8'-2½"	15'-9½"	7'-6½"	17'-9"	6'-11¾"	19'-6¼"
60 FEET	11'-2½"	12'-8¾"	10'-¾"	15'-6½"	9'-2¼"	17'-11¾"	8'-5¾"	20'-1¾"	7'-10½"	22'-1½"

INTERMEDIATE RADII CAN BE INTERPOLATED

GENERAL NOTES

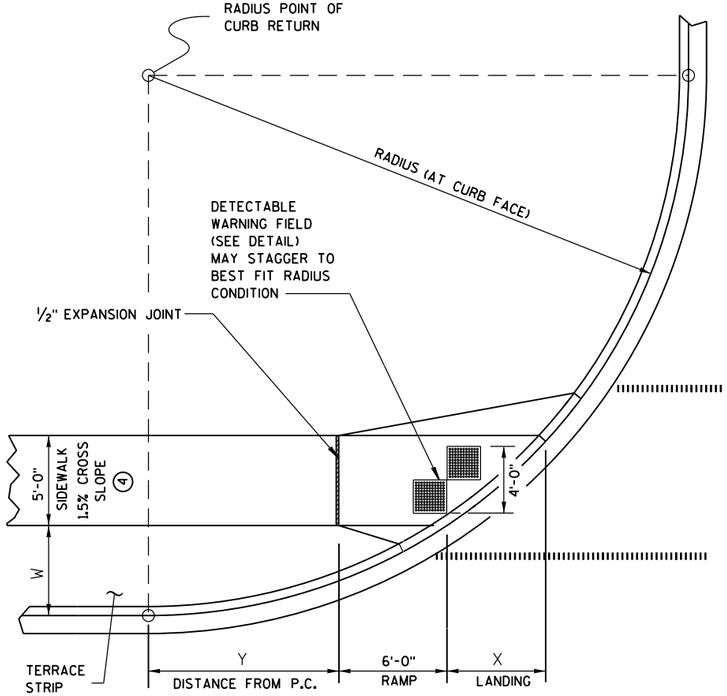
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

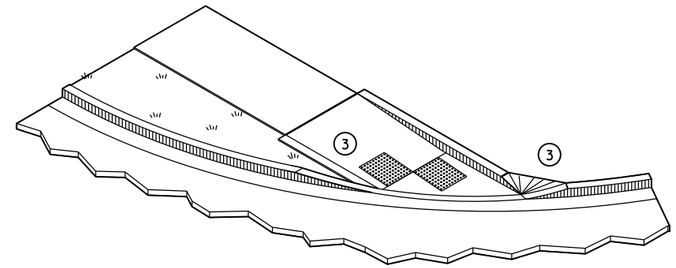
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

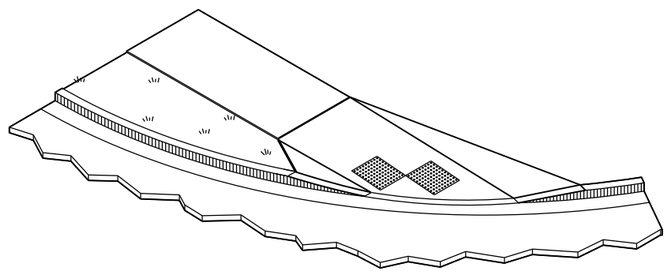
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



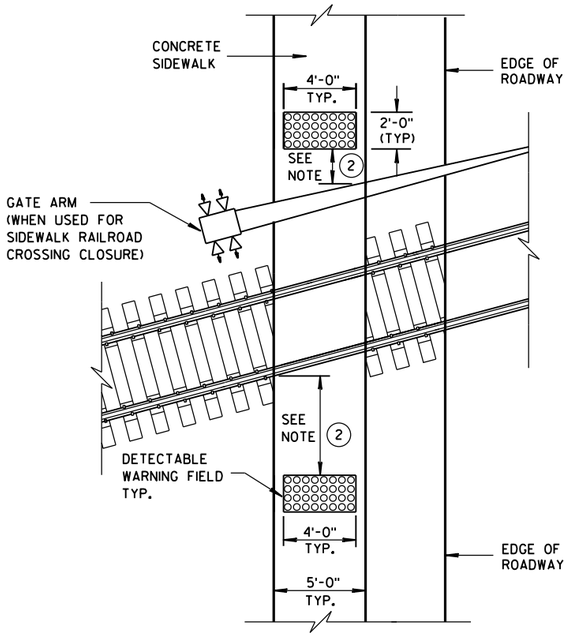
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

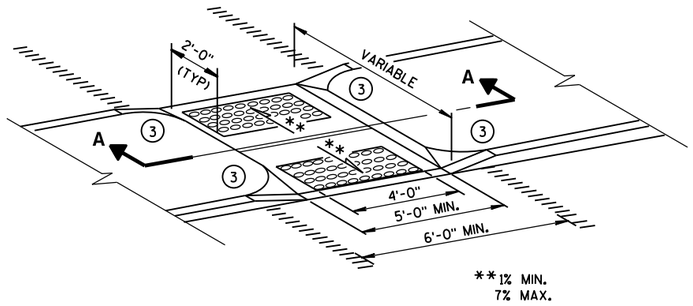
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-15d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

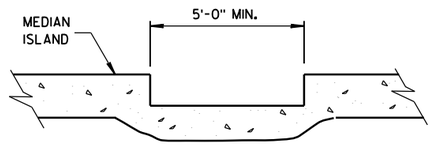
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(1) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

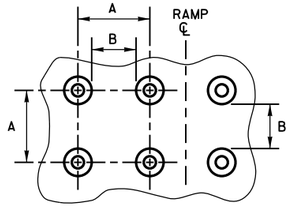
(2) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



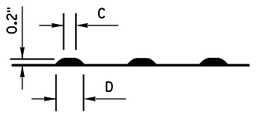
SECTION A-A



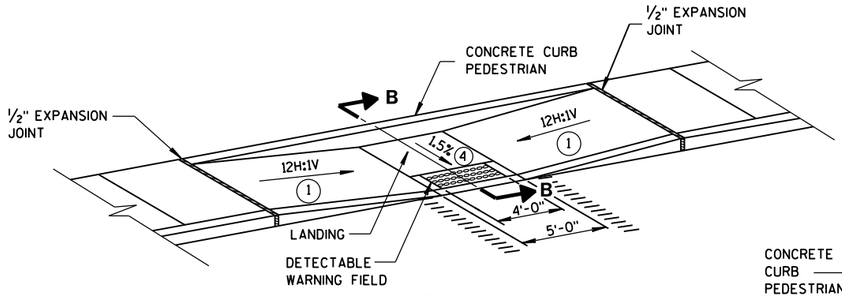
PLAN VIEW

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

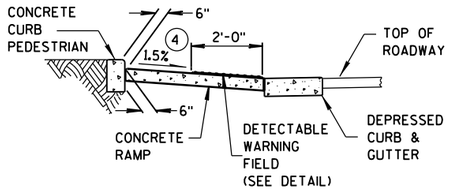
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



ELEVATION VIEW

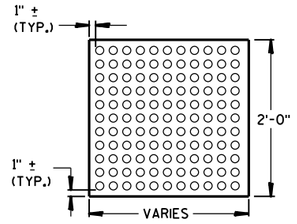


MID-BLOCK CROSSING
TYPE 7A



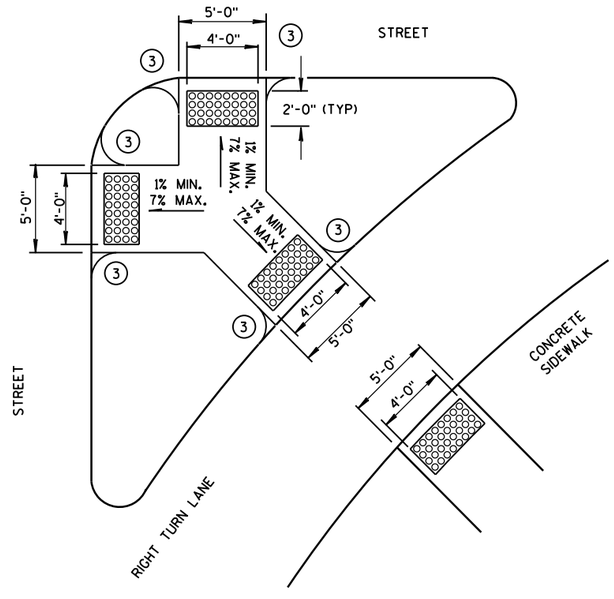
SECTION B-B

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

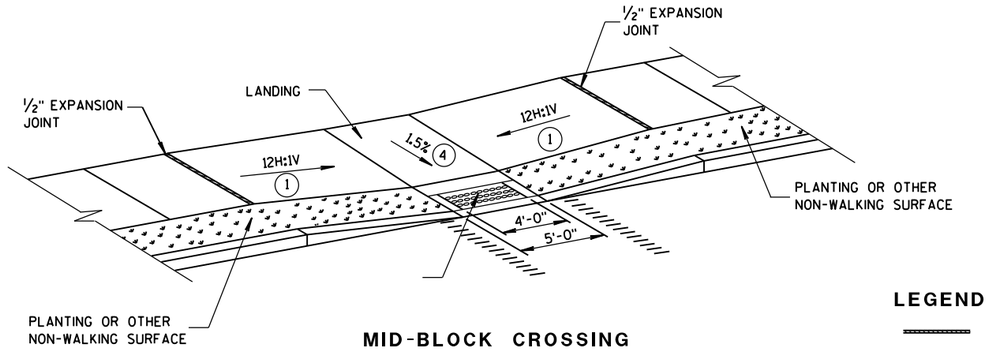


PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

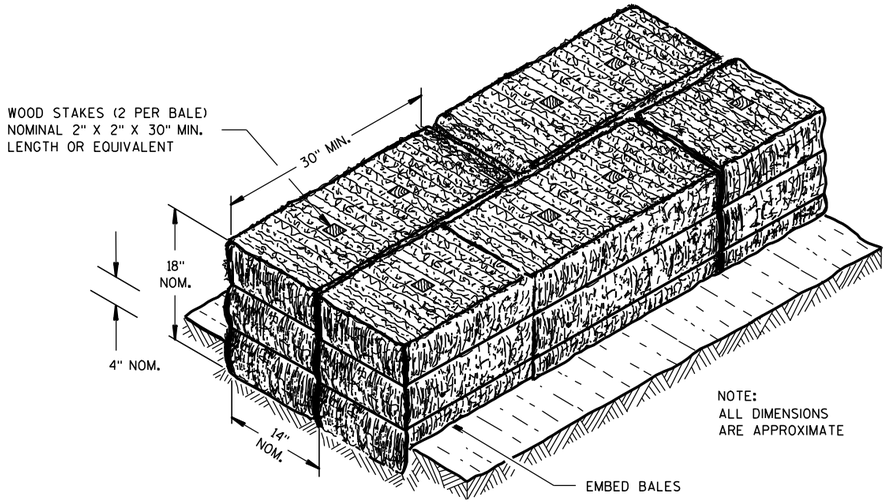
CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

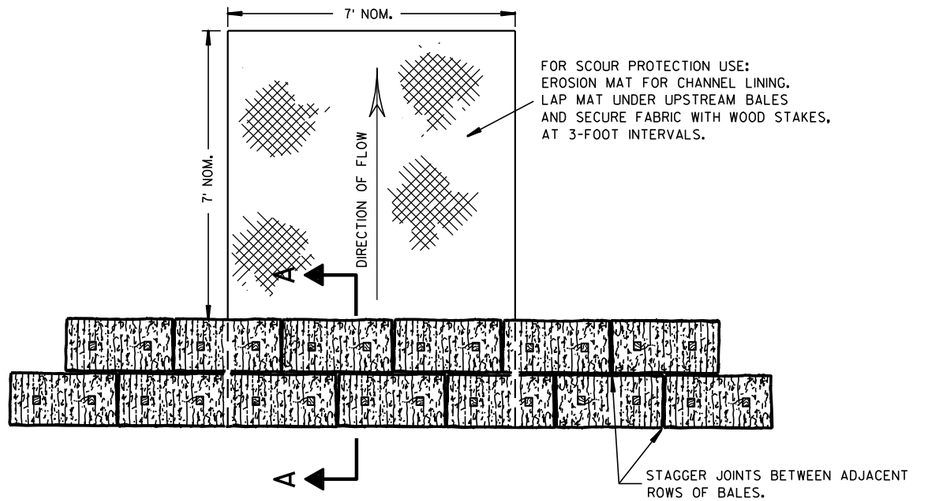
APPROVED
2-6-2013 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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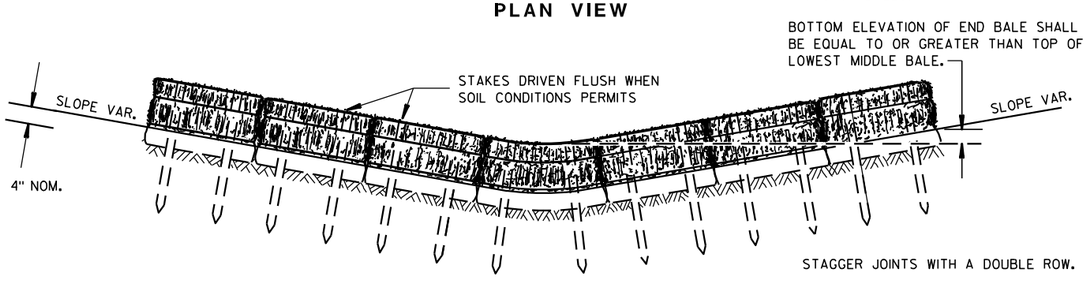
S.D.D. 8 D 5-15e



SECTION A-A



PLAN VIEW



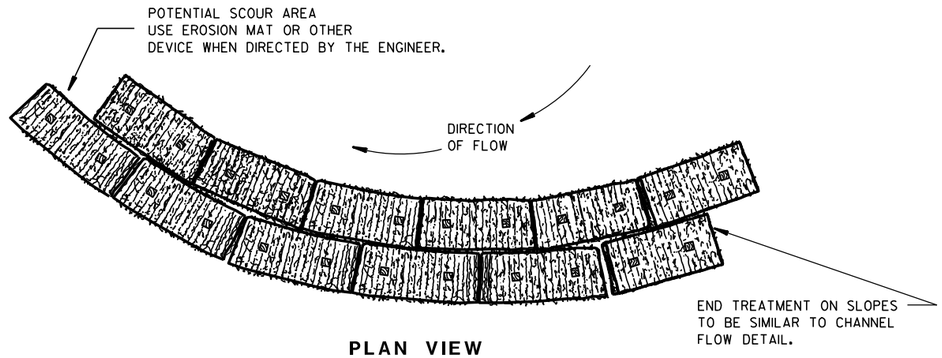
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

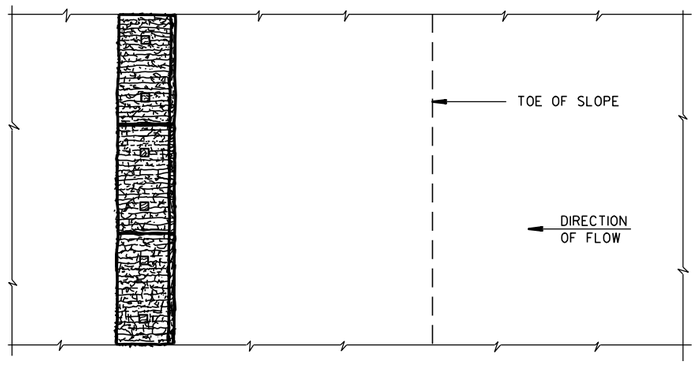
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

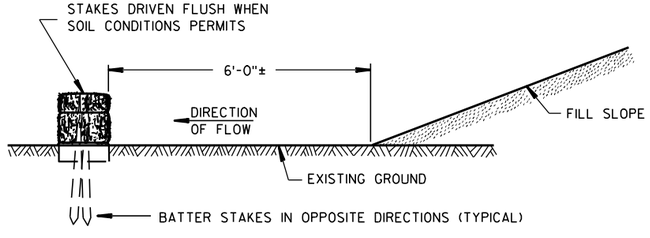


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

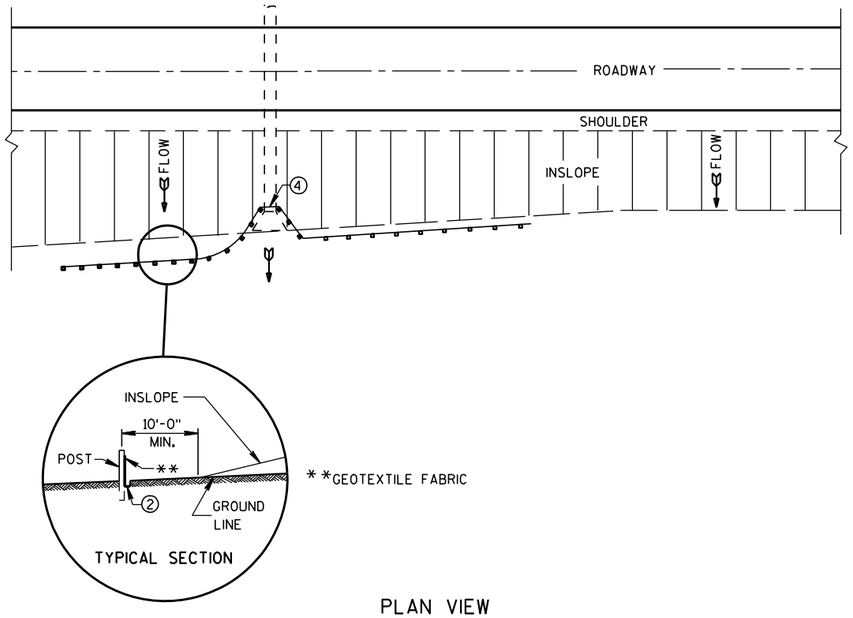
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

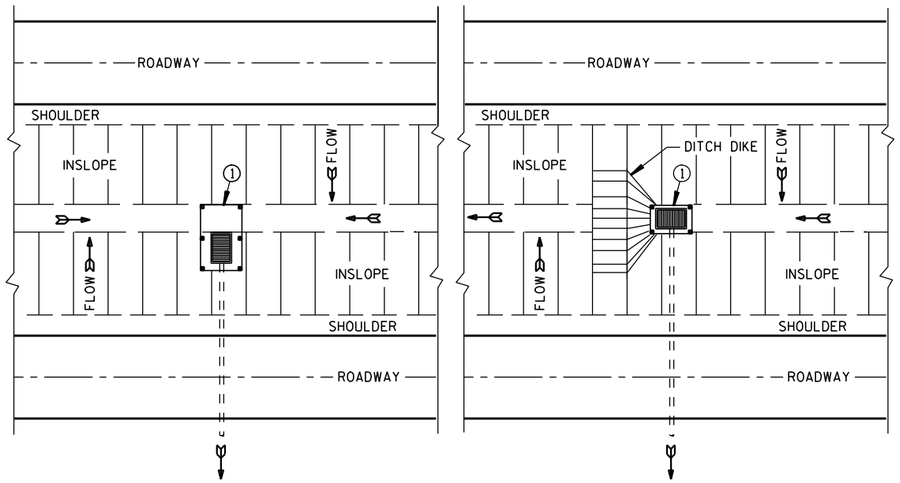
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S.D.D. 8 E 8-3



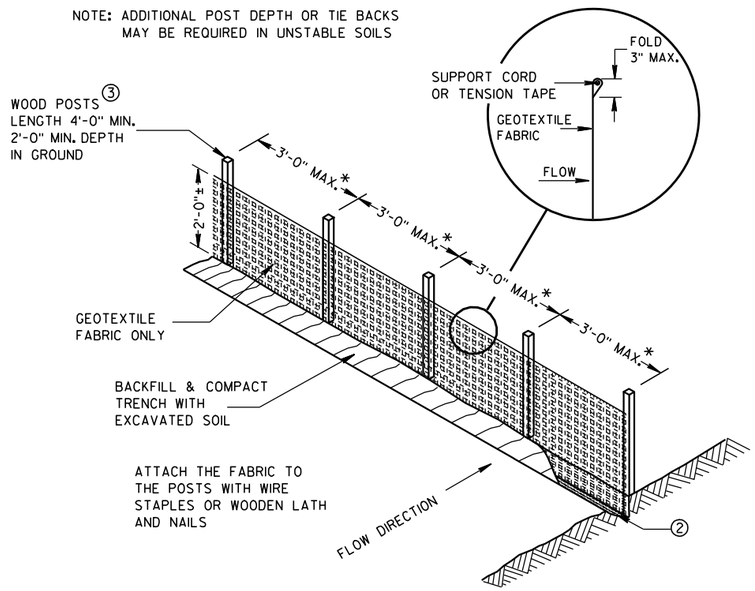
PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE

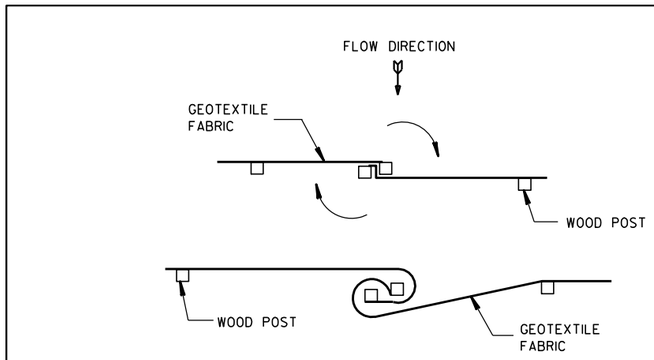


PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS



SILT FENCE

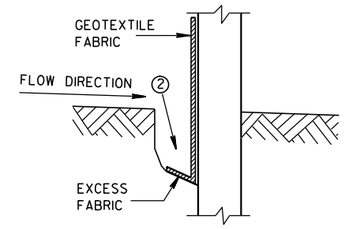


JOINING TWO LENGTHS OF SILT FENCE 5

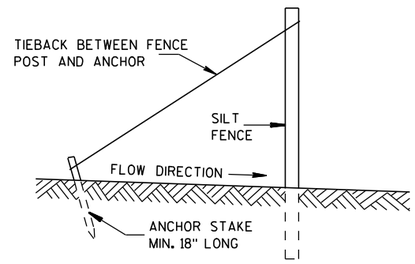
GENERAL NOTES

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



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

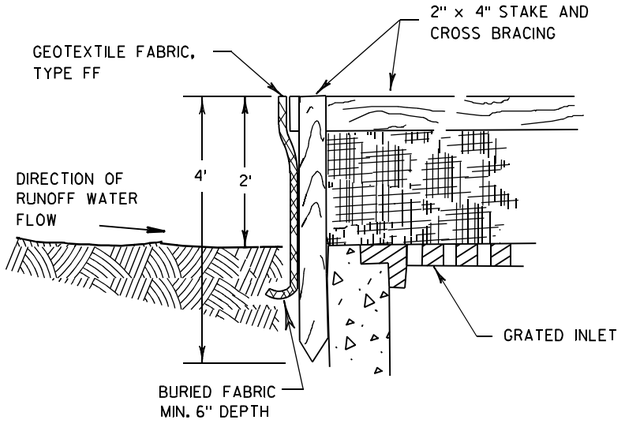
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

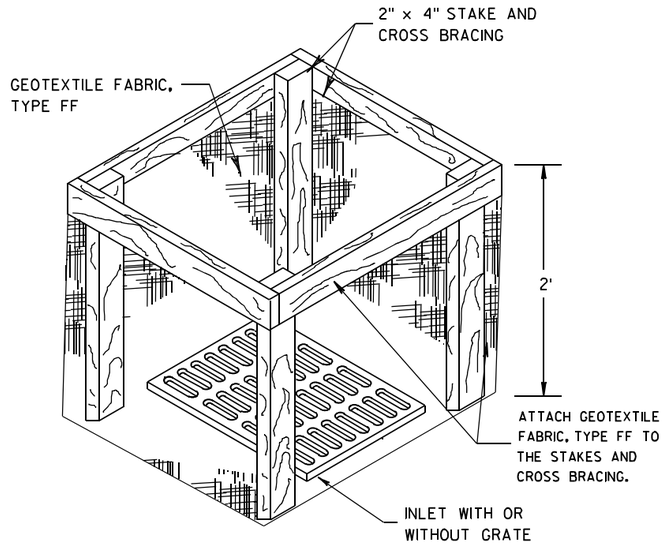
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S.D.D. 8 E 9-6

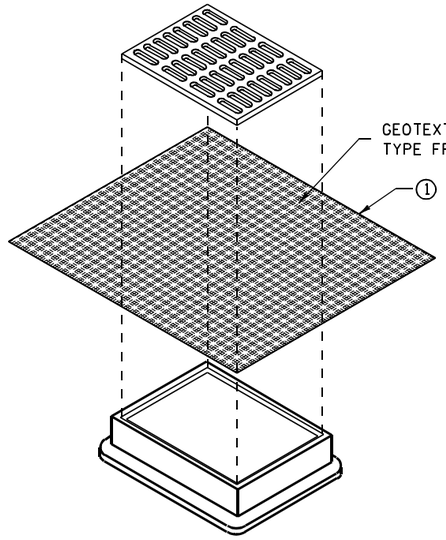
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S.D.D. 8 E 9-6



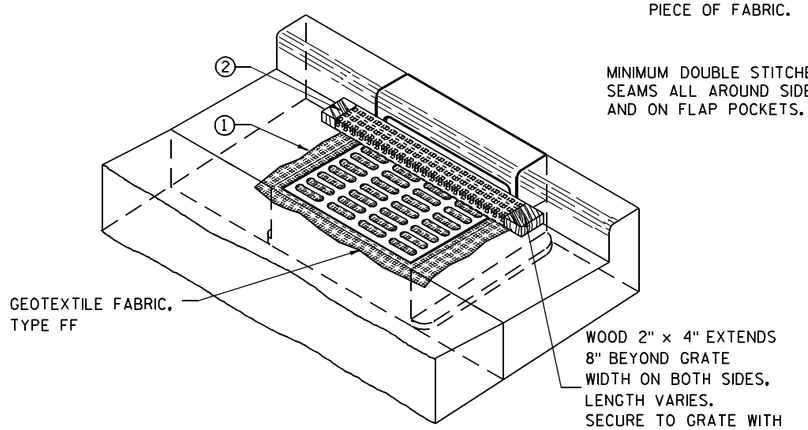


INLET PROTECTION, TYPE A

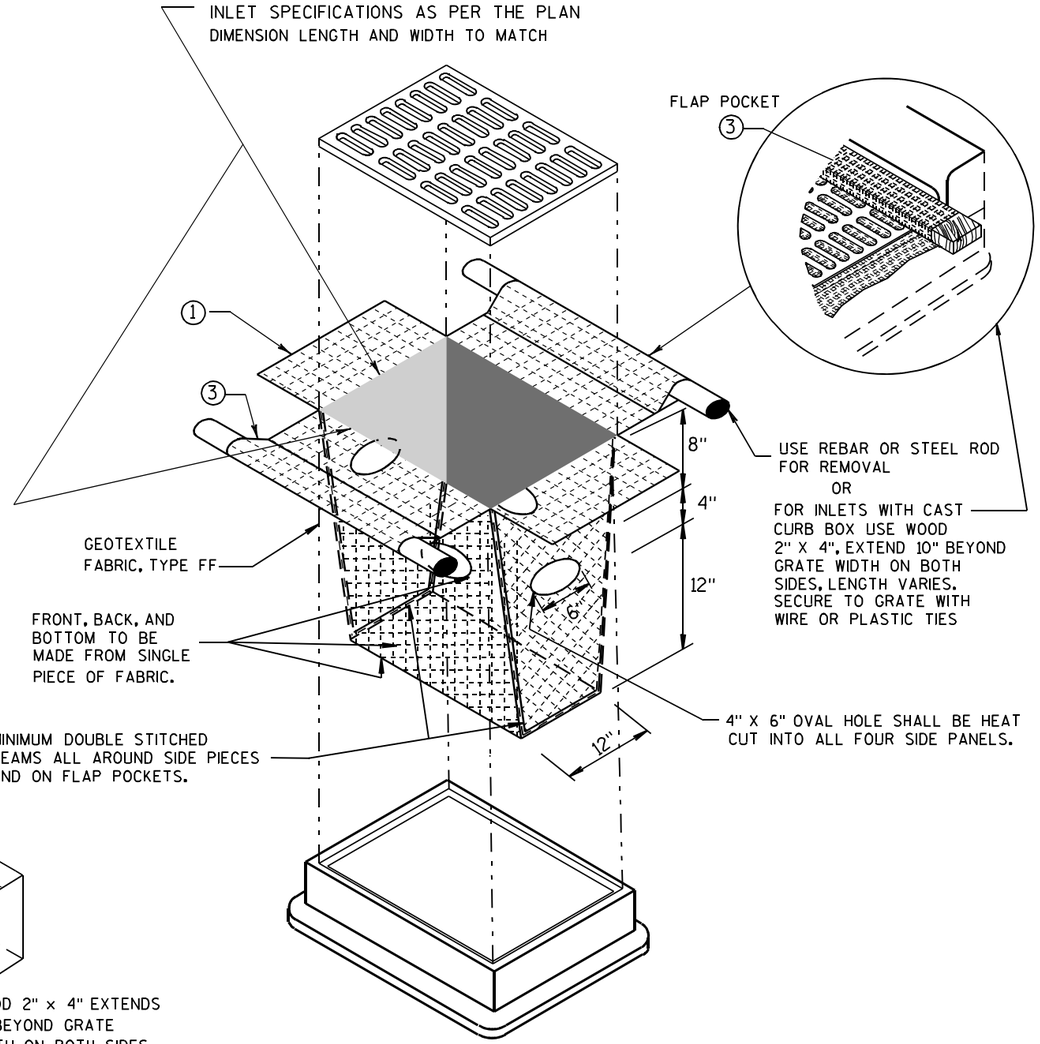


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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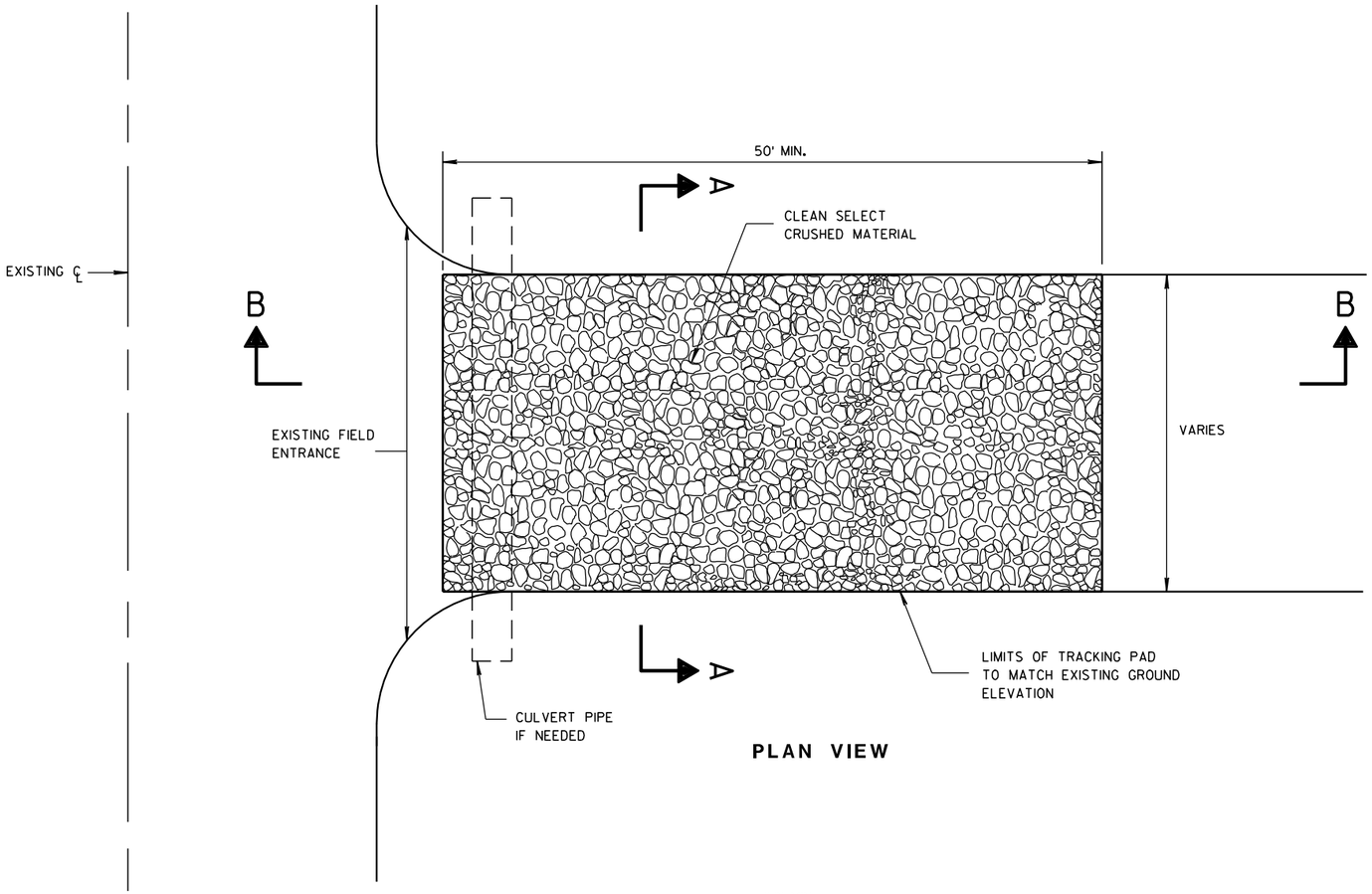
10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

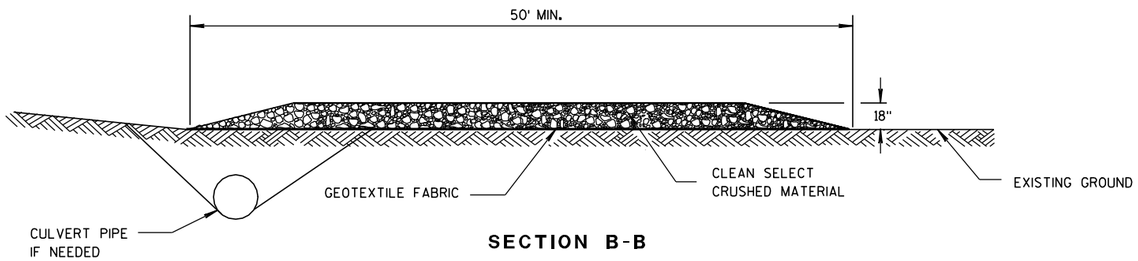
FHWA

6

S.D.D. 8 E 10-2



PLAN VIEW



SECTION B-B

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

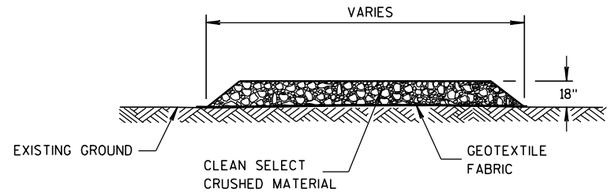
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

6

S.D.D. 8 E 14-1

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/24/2011	/S/ Jerry H. Zoda	
DATE	ROADWAY STANDARDS ENGINEER	ENT

FHWA

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S.D.D. 8 E 14-1

METAL APRON ENDWALLS

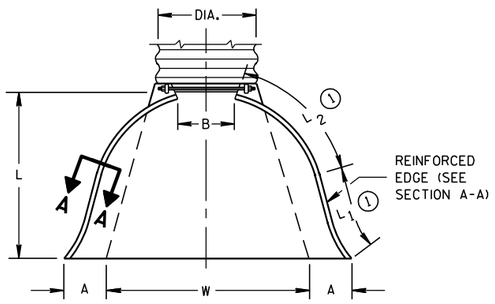
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

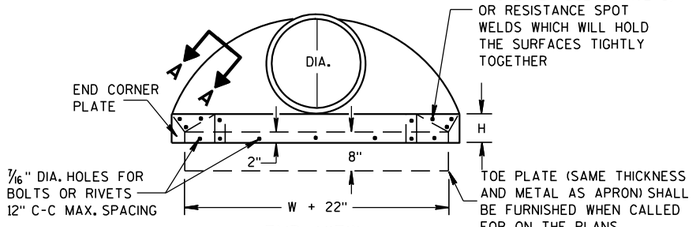
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

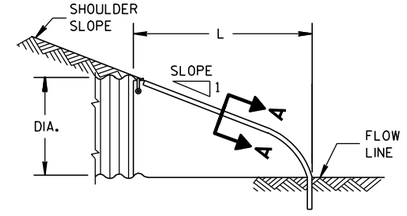
*MINIMUM
**MAXIMUM



PLAN VIEW

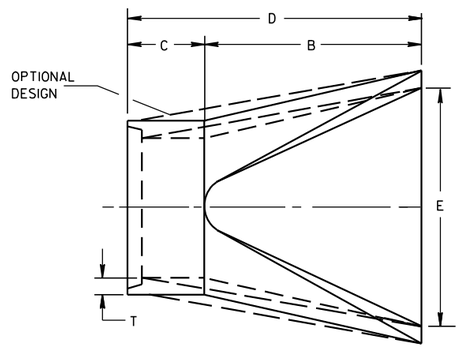


END VIEW

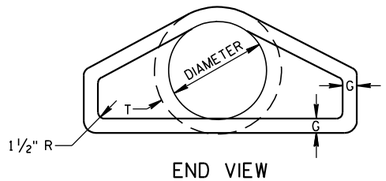


SIDE ELEVATION

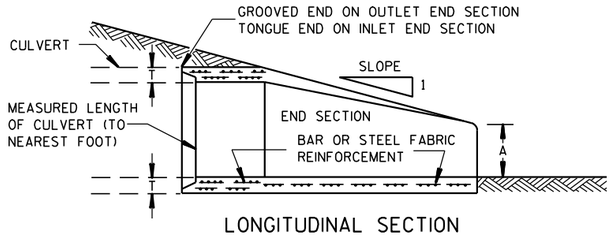
METAL ENDWALLS



PLAN

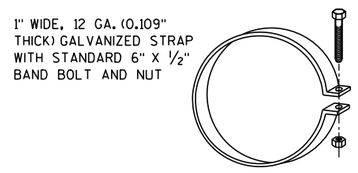


END VIEW



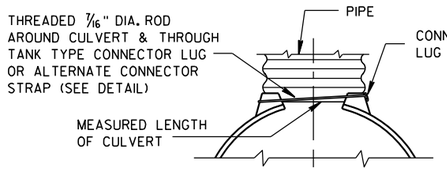
LONGITUDINAL SECTION

CONCRETE ENDWALLS

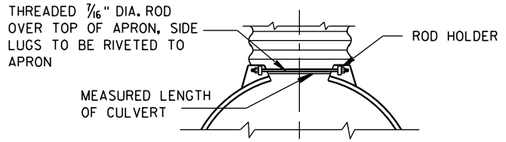


ALTERNATE FOR TYPE 1 CONNECTION

END SECTION CONNECTOR STRAP

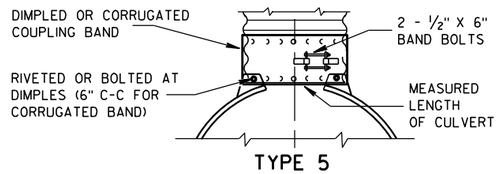


TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE

TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

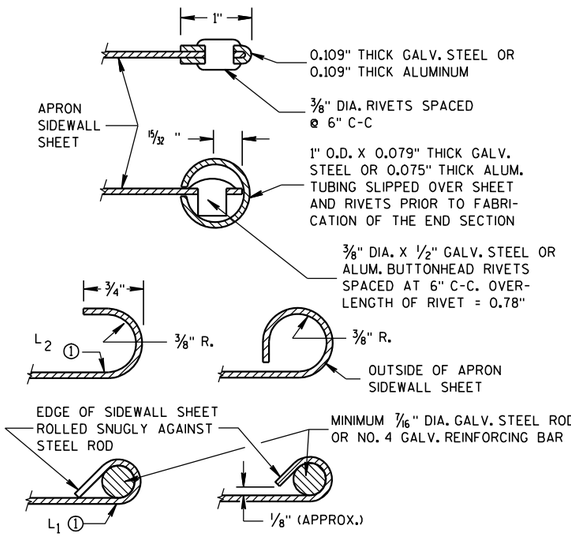
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

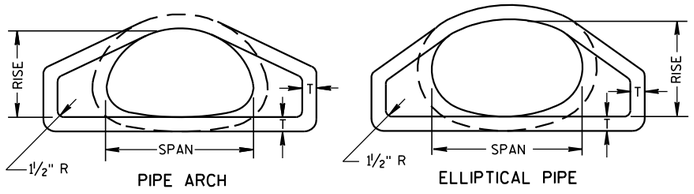
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOP 288 NEER
FHWA

6

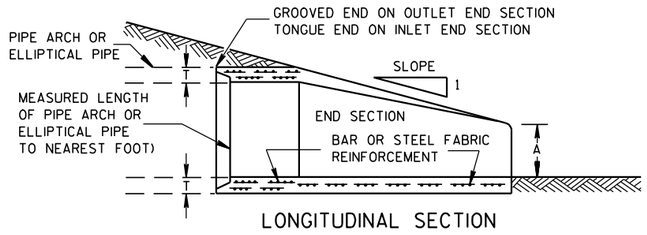
S.D.D. 8 F 1-11

6

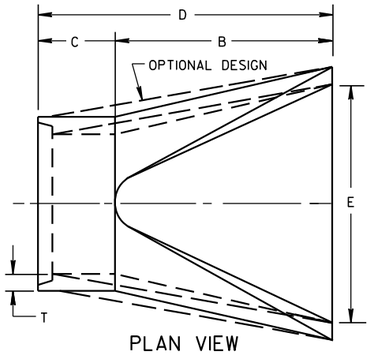
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END VIEW

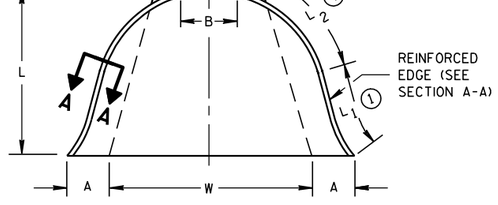


LONGITUDINAL SECTION

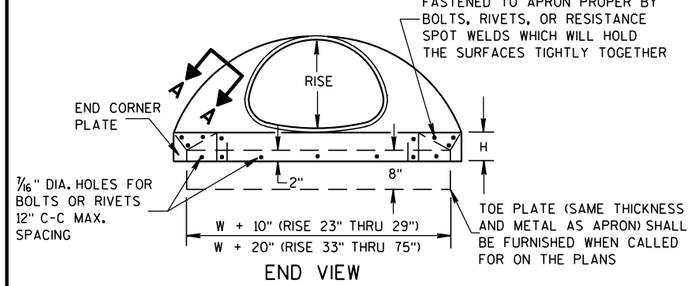


PLAN VIEW

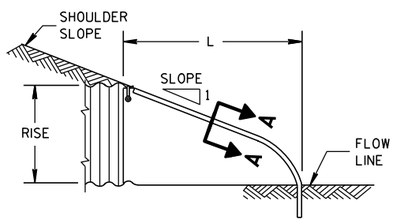
CONCRETE ENDWALLS



PLAN VIEW

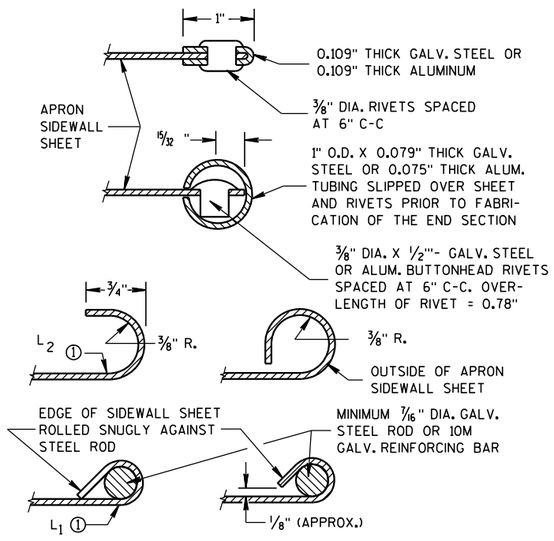


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

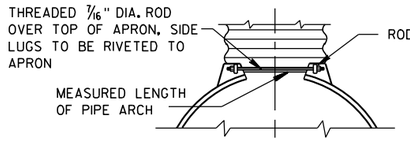
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

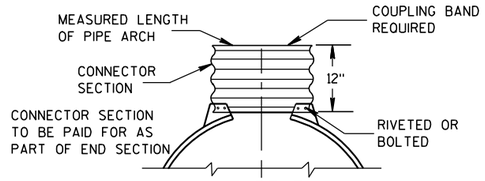
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



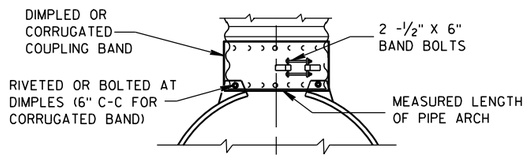
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION 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.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH 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 ARCH 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 77" X 52" THROUGH 112" X 75" 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 ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

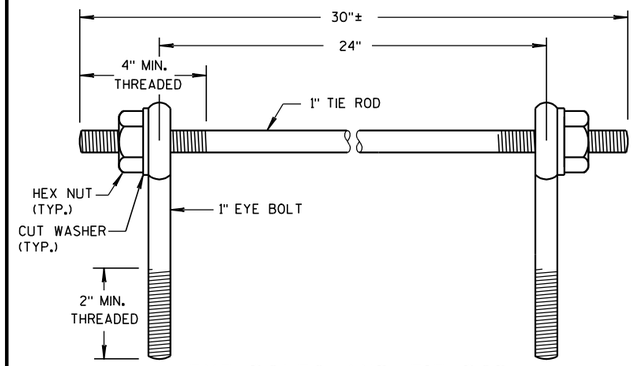
FHWA

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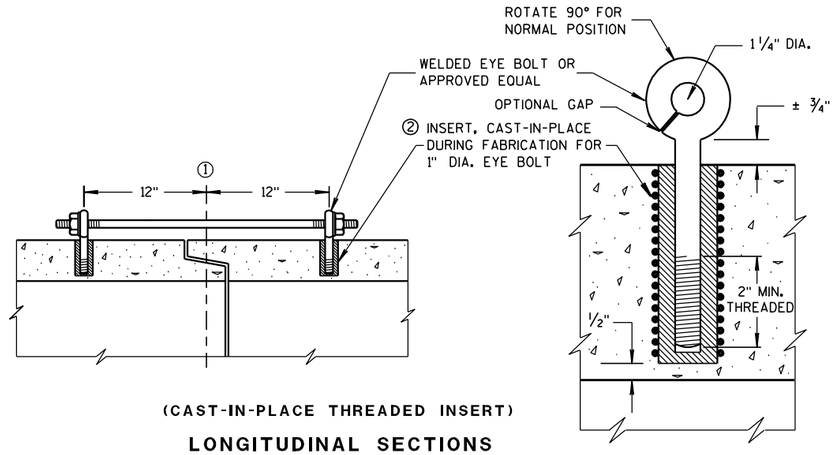
S.D.D. 8 F 2-1

6

S.D.D. 8 F 2-1



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.

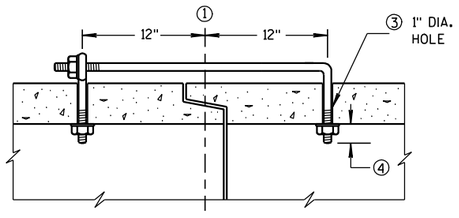
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

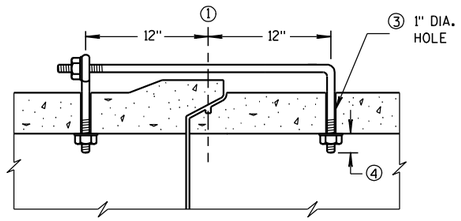
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

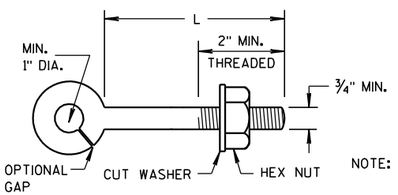


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

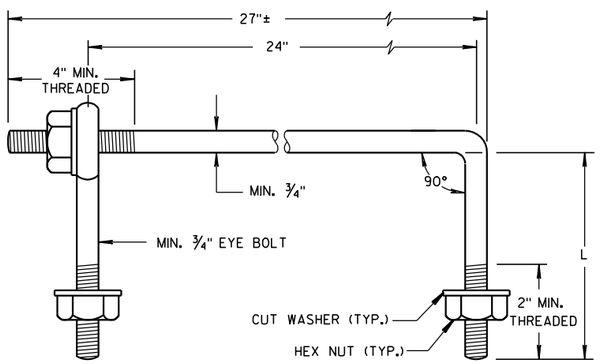
EYE BOLT DIMENSION TABLE

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"	



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

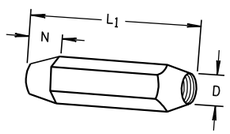
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

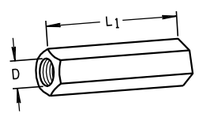
ADJUSTABLE TIE ROD TABLE

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



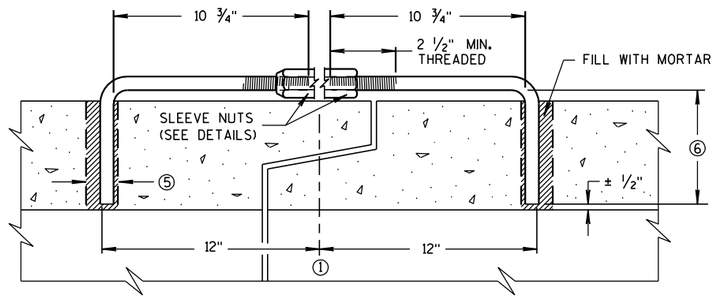
TAPERED



PLAIN

RIGHT AND LEFT THREADS

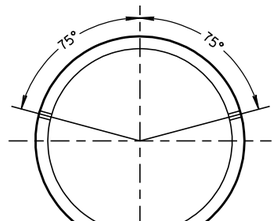
SLEEVE NUTS



LONGITUDINAL SECTION

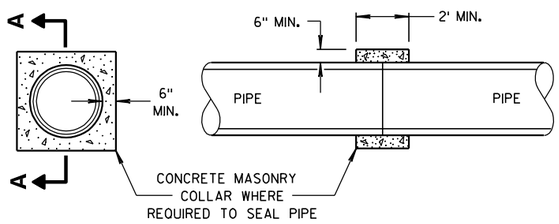
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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
290
FHWA

6

S.D.D. 8 F 4-7

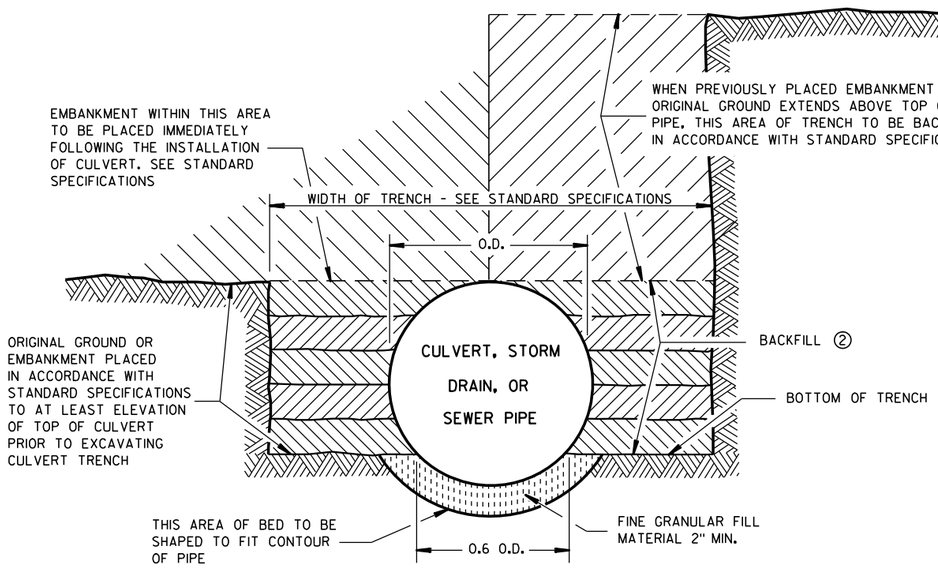
GENERAL NOTES

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

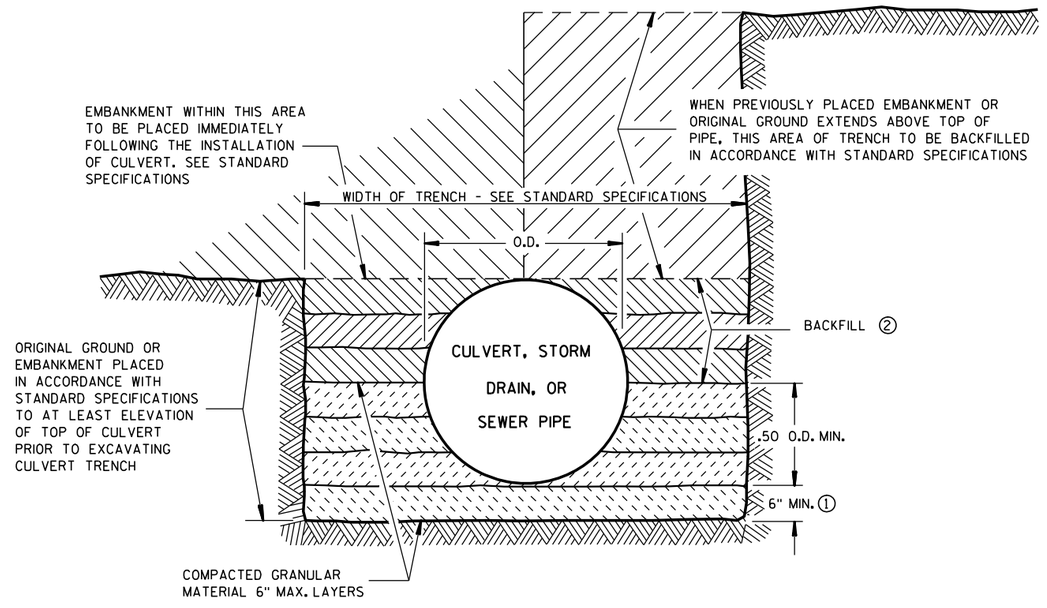
THE SHAPED SUBGRADE WITH GRANULAR FOUNDATION IS AN EQUAL ALTERNATE TO THE GRANULAR FOUNDATION EXCEPT WHERE ROCK IS ENCOUNTERED.

① WHERE ROCK, HARD PAN OR FRAGMENTED MATERIAL IS ENCOUNTERED, THE TRENCH SHALL BE EXCAVATED BELOW THE BOTTOM OF THE PIPE AN AMOUNT EQUAL TO ½ INCH PER FOOT OF PROPOSED EMBANKMENT ABOVE THE TOP OF THE PIPE, BUT NOT LESS THAN 6 INCHES.

② TRENCH SHALL BE BACKFILLED AS REQUIRED BY STANDARD SPECIFICATIONS; SECTION 520 FOR PIPE CULVERTS AND SECTION 607 FOR STORM SEWERS.



SHAPED SUBGRADE WITH GRANULAR FOUNDATION



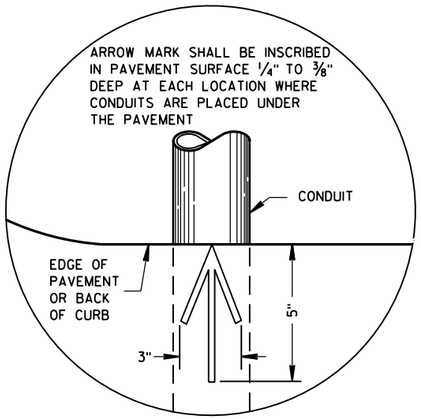
GRANULAR FOUNDATION

CLASS "B" BEDDING

CLASS "B" BEDDING FOR CULVERT PIPE OR STORM SEWER	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
4/7/83 DATE	/S/ D. L. Strand STATE DESIGN ENGINEER
FHWA	HWYS

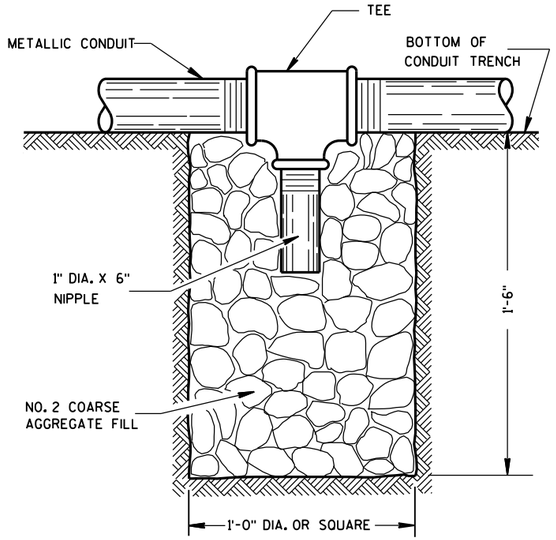
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S.D.D. 8 F 5-1



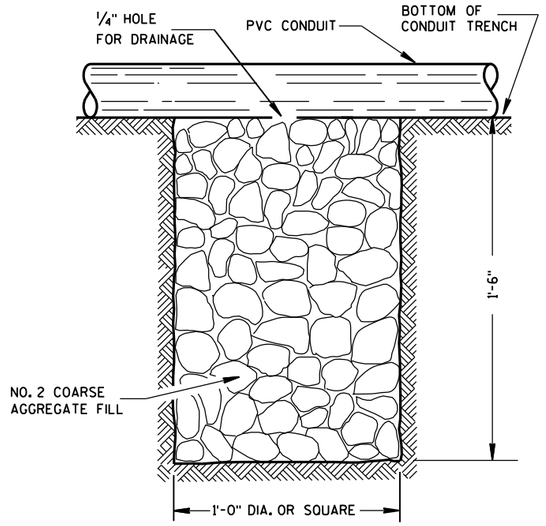
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

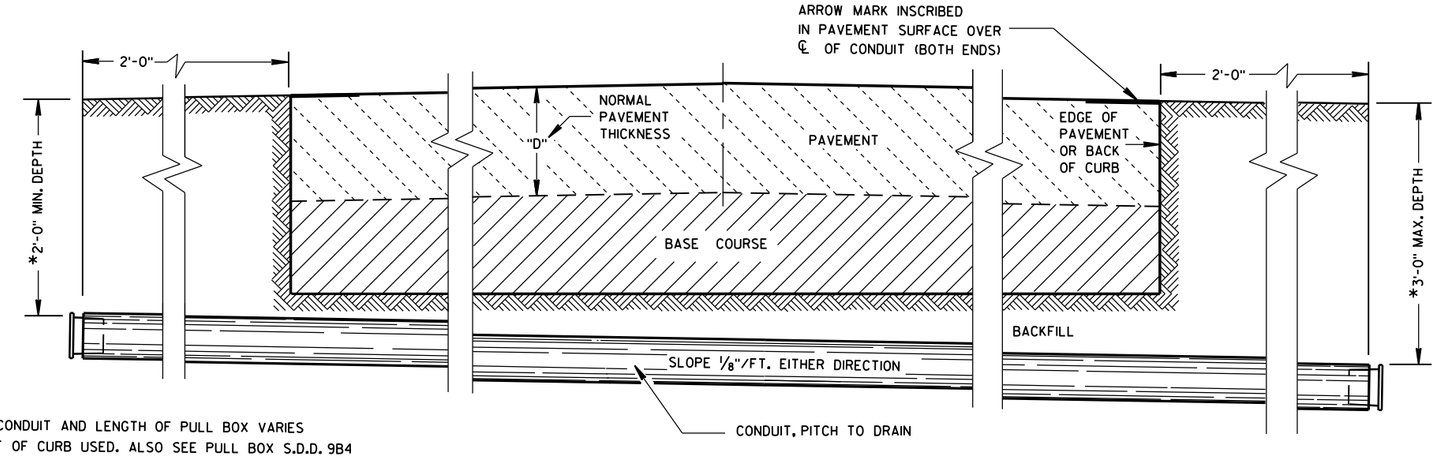
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

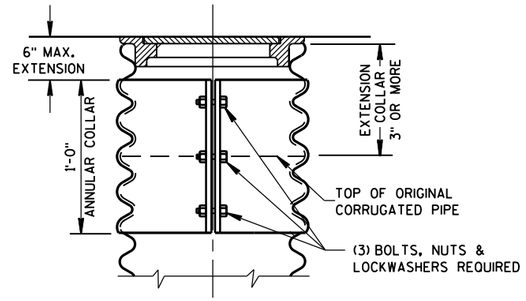
S.D.D. 9 B 2-9

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

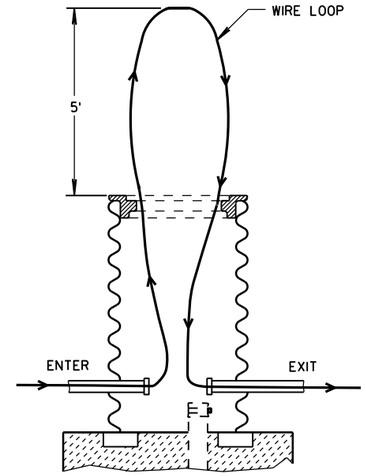
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	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.

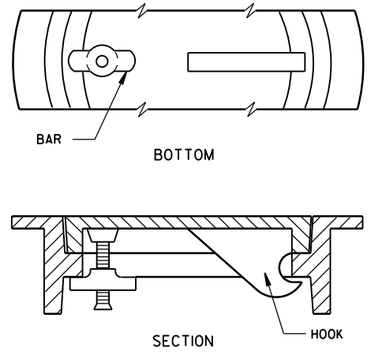
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

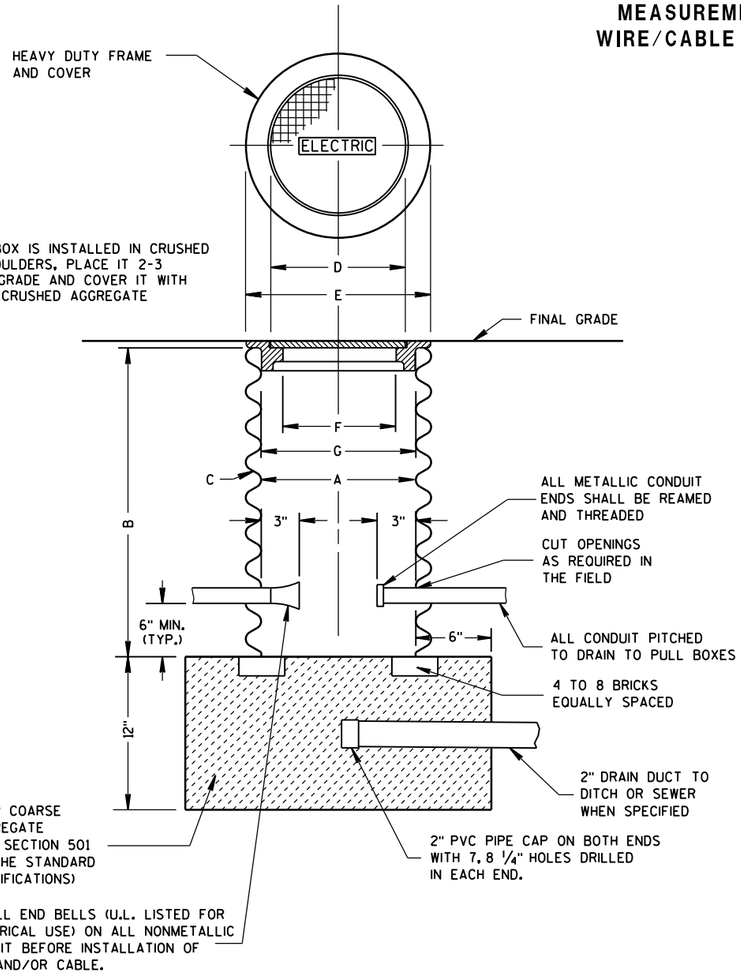


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



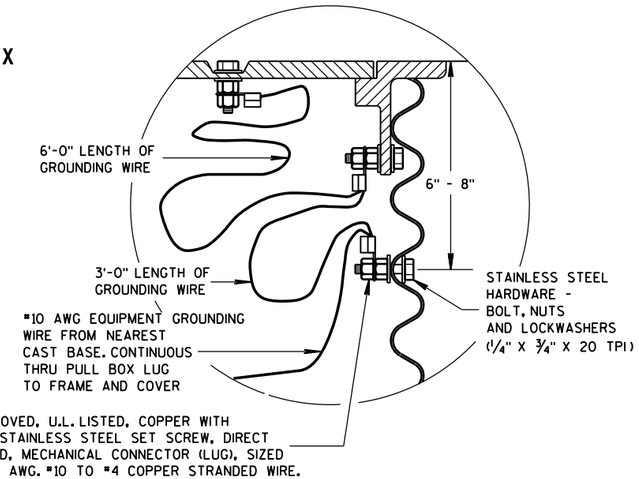
ALTERNATE COVER (LOCKING)

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

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.

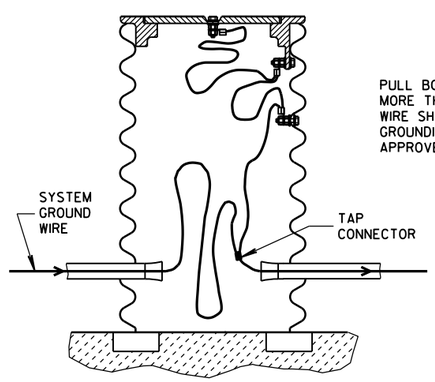
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

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 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

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

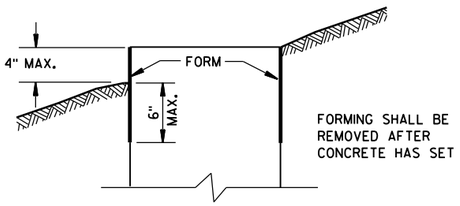
6

S.D.D. 9 B 4-11

6

S.D.D. 9 B 4-11

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



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.

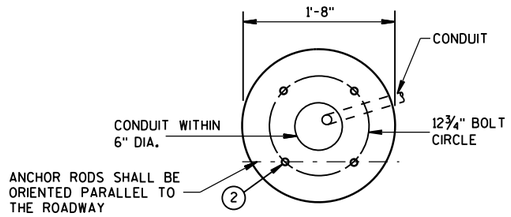
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

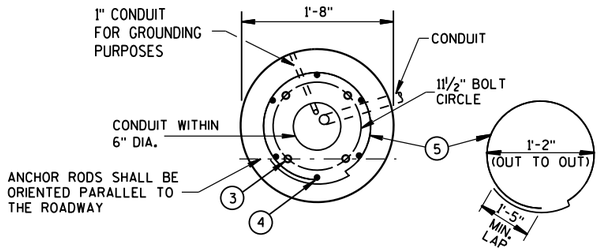
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

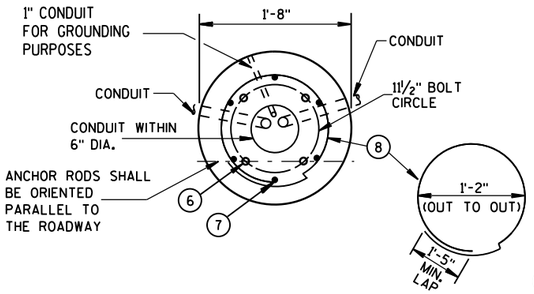
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.



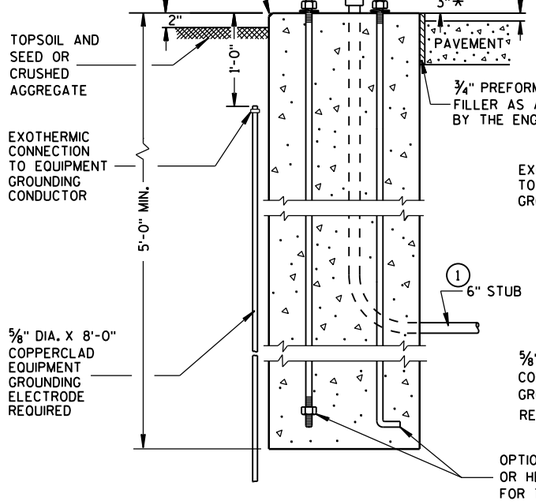




FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND

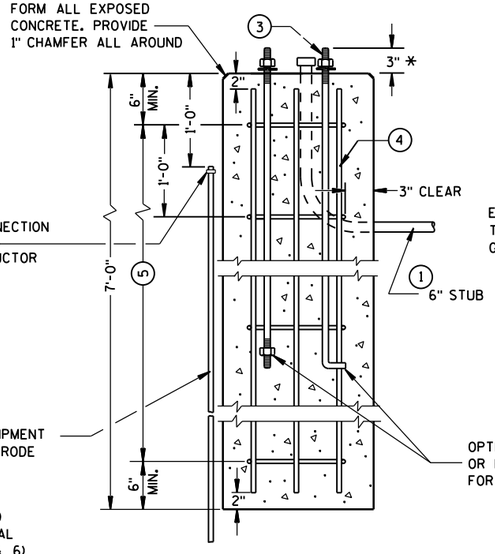
HALF SECTION IN UNPAVED AREA

(TYPICAL FOR TYPES 1, 2, 5, & 6)

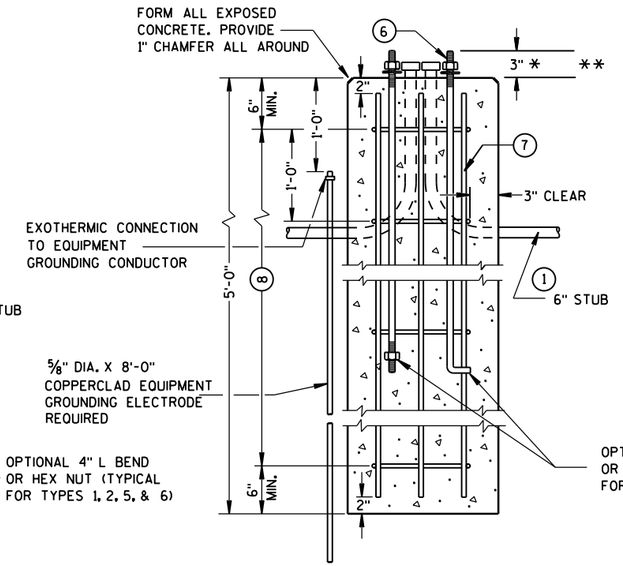


HALF SECTION IN PAVEMENT

(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
FHWA

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.

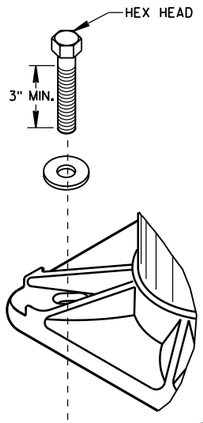
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

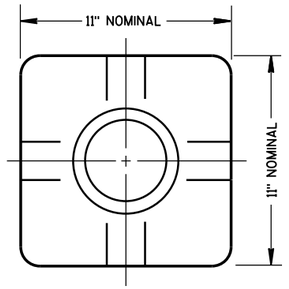
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

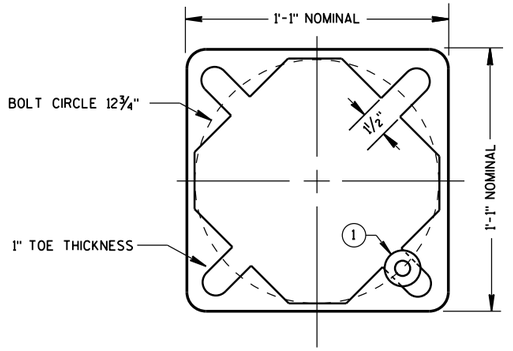
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

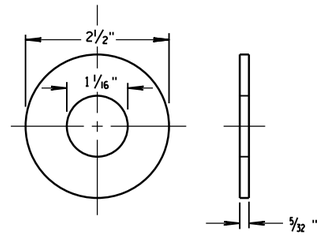




TOP VIEW
(PEDESTAL BASE)

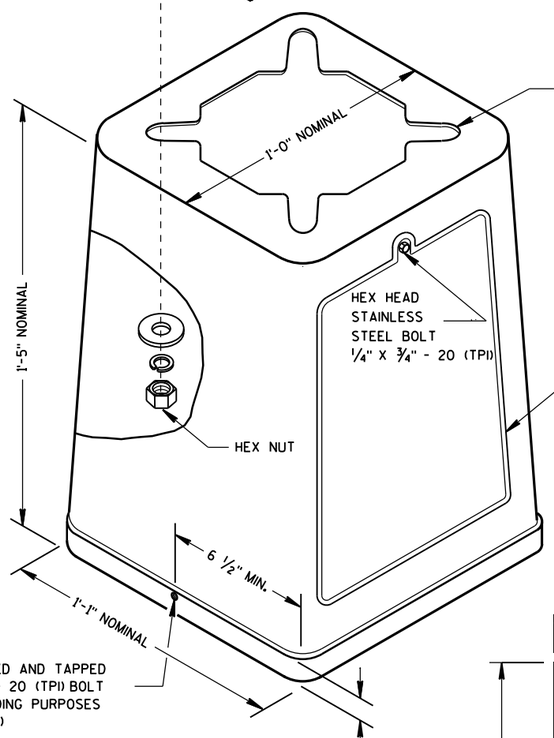


BOTTOM VIEW
(PEDESTAL BASE)

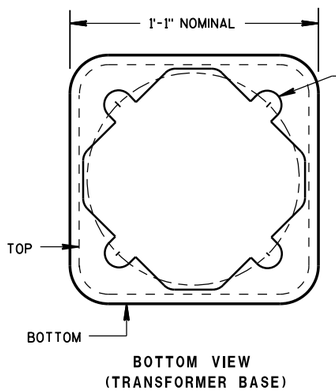


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

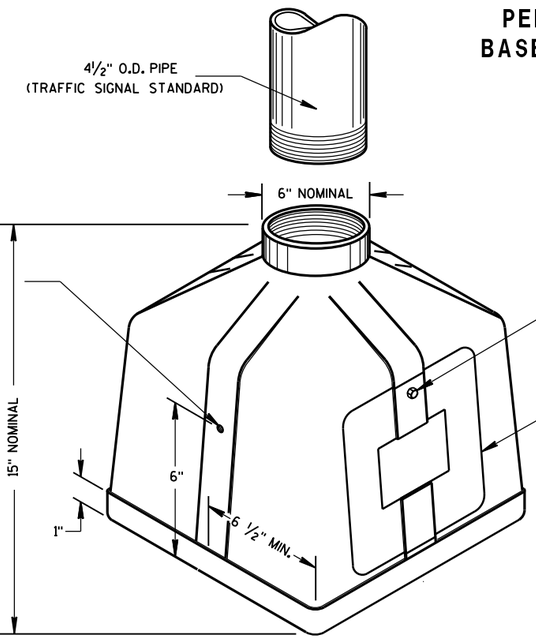
PEDESTAL BASE WASHER (1)



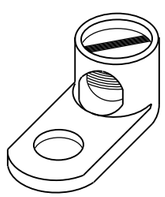
ISOMETRIC VIEW



BOTTOM VIEW
(TRANSFORMER BASE)

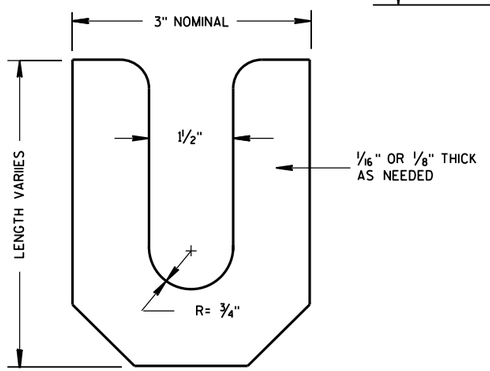


ISOMETRIC VIEW
PEDESTAL BASE



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

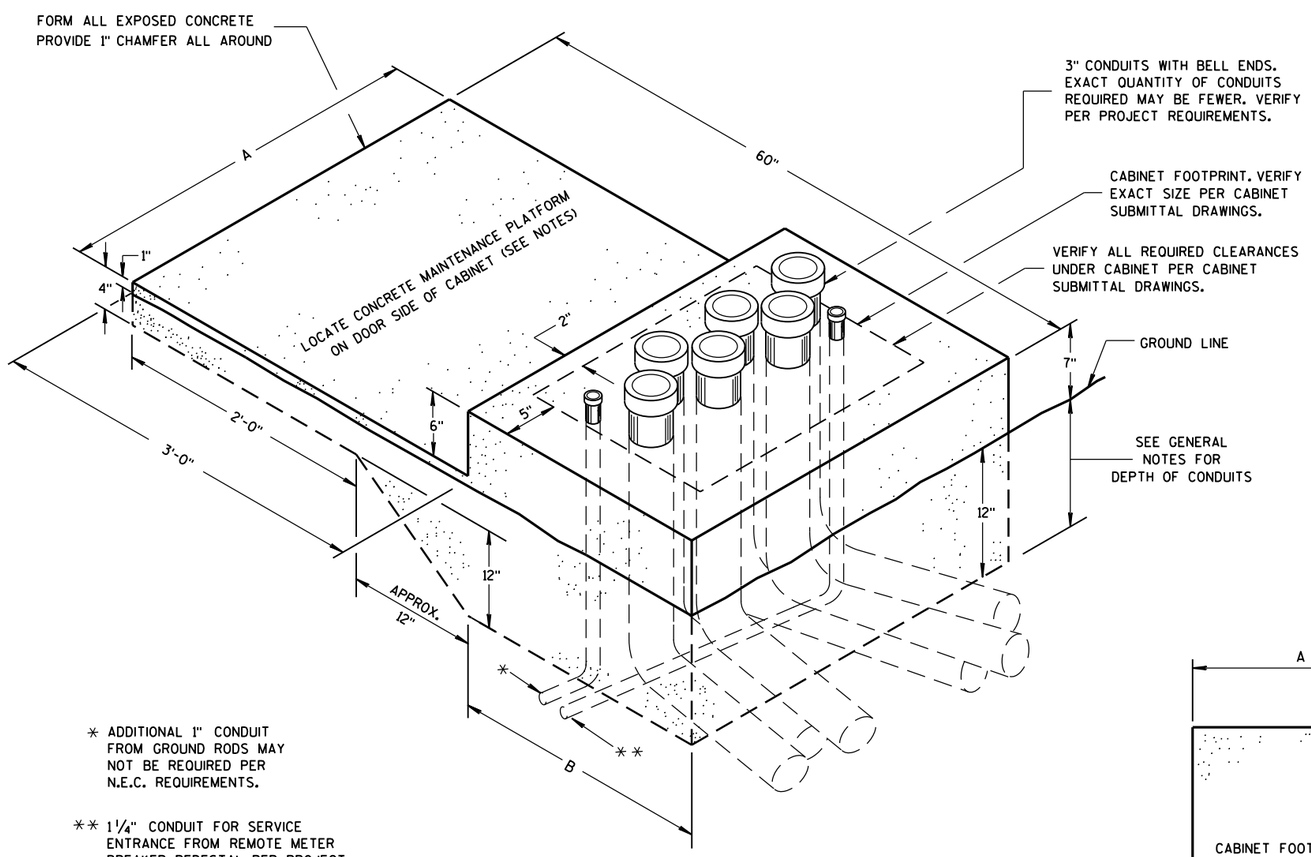
TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

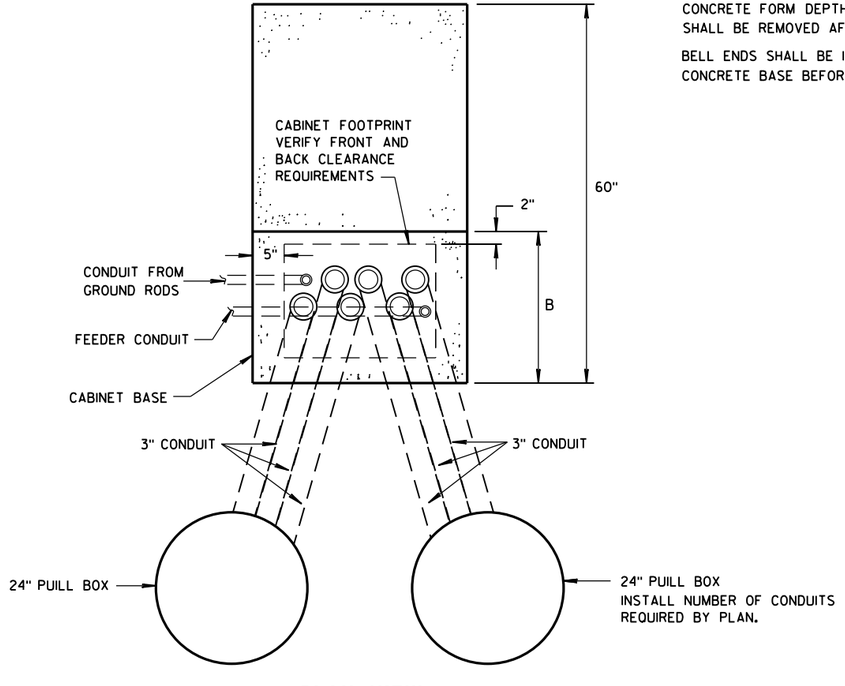
** 1¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

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

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS 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 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.

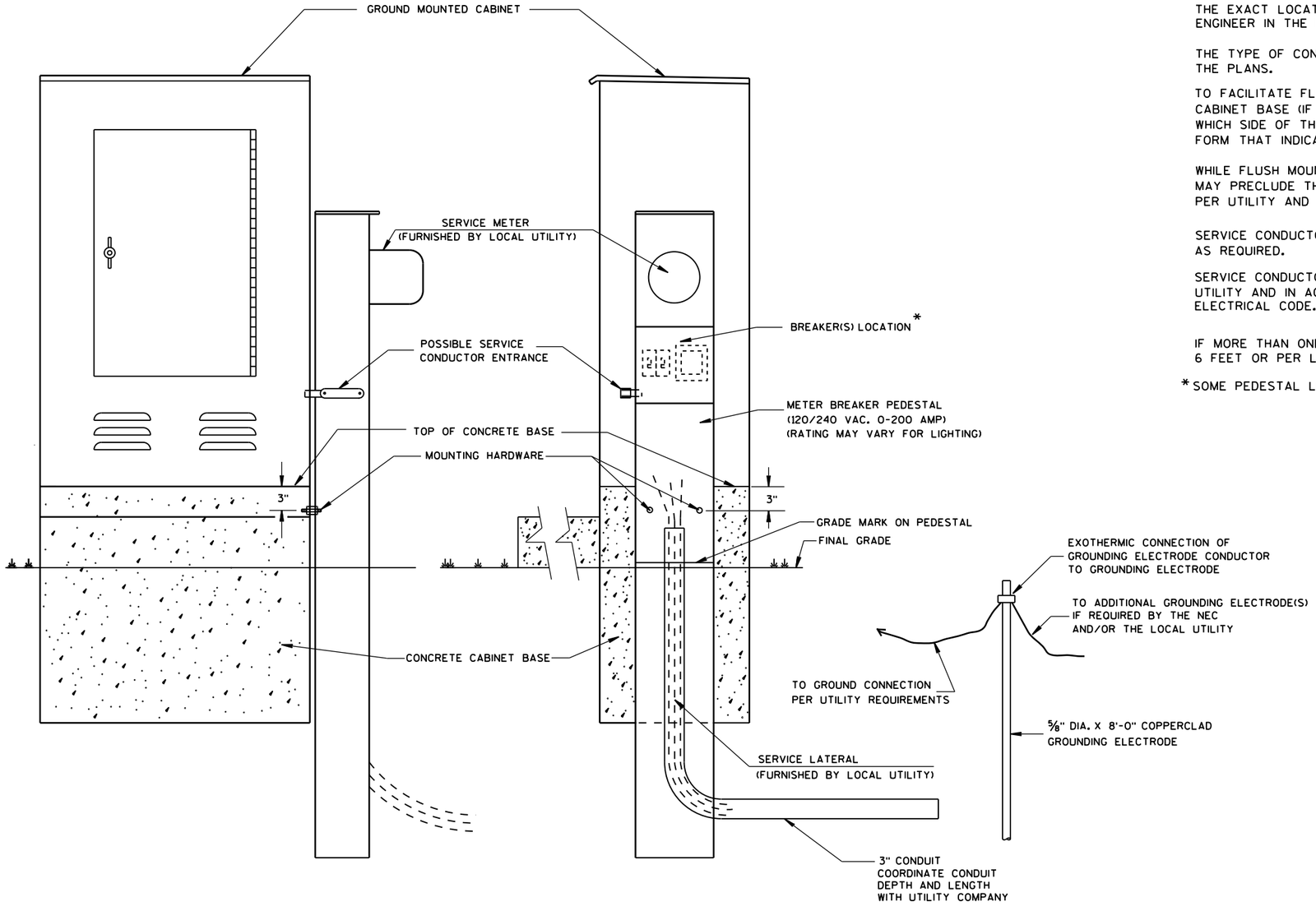
CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Nov. 2014 — DATE
/S/ Thomas Gonring — STATE LIGHTING ENGINE — WYS
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S.D.D. 9 C 14-2



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

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6
S.D.D. 9 D 1-5

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.

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE-WIRED BY THE CABINET FABRICATOR.

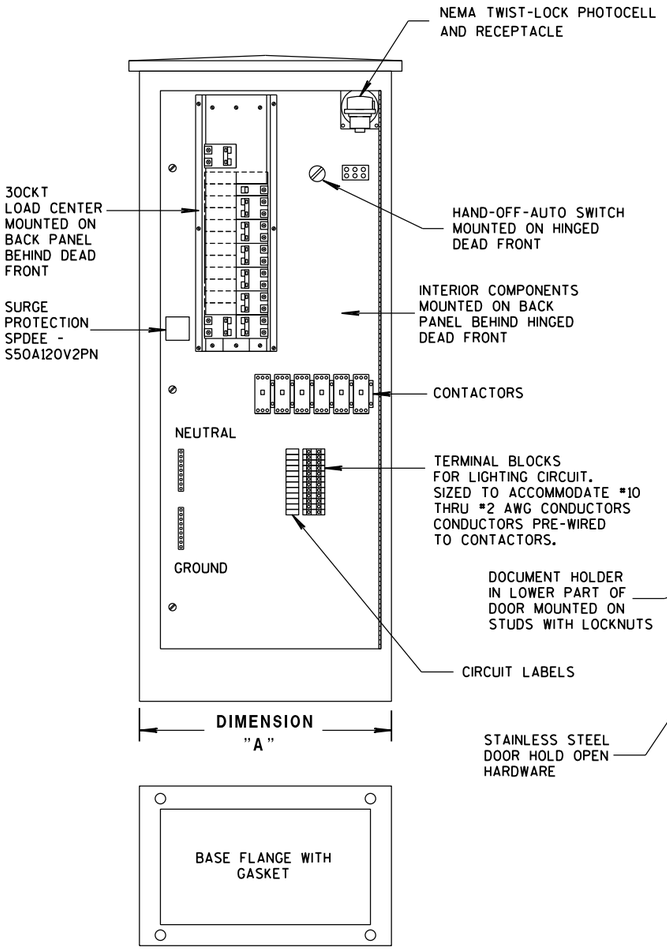
ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

FRONT INTERIOR ELEVATION



SIDE VIEW

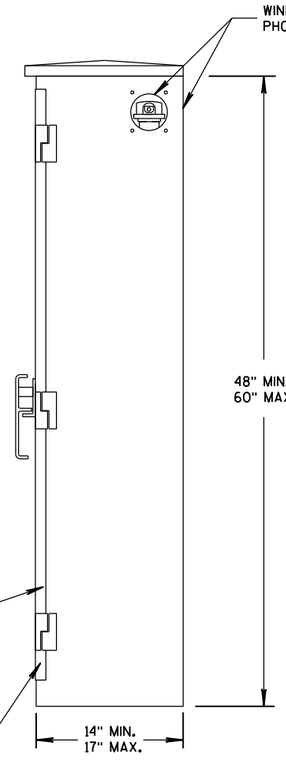
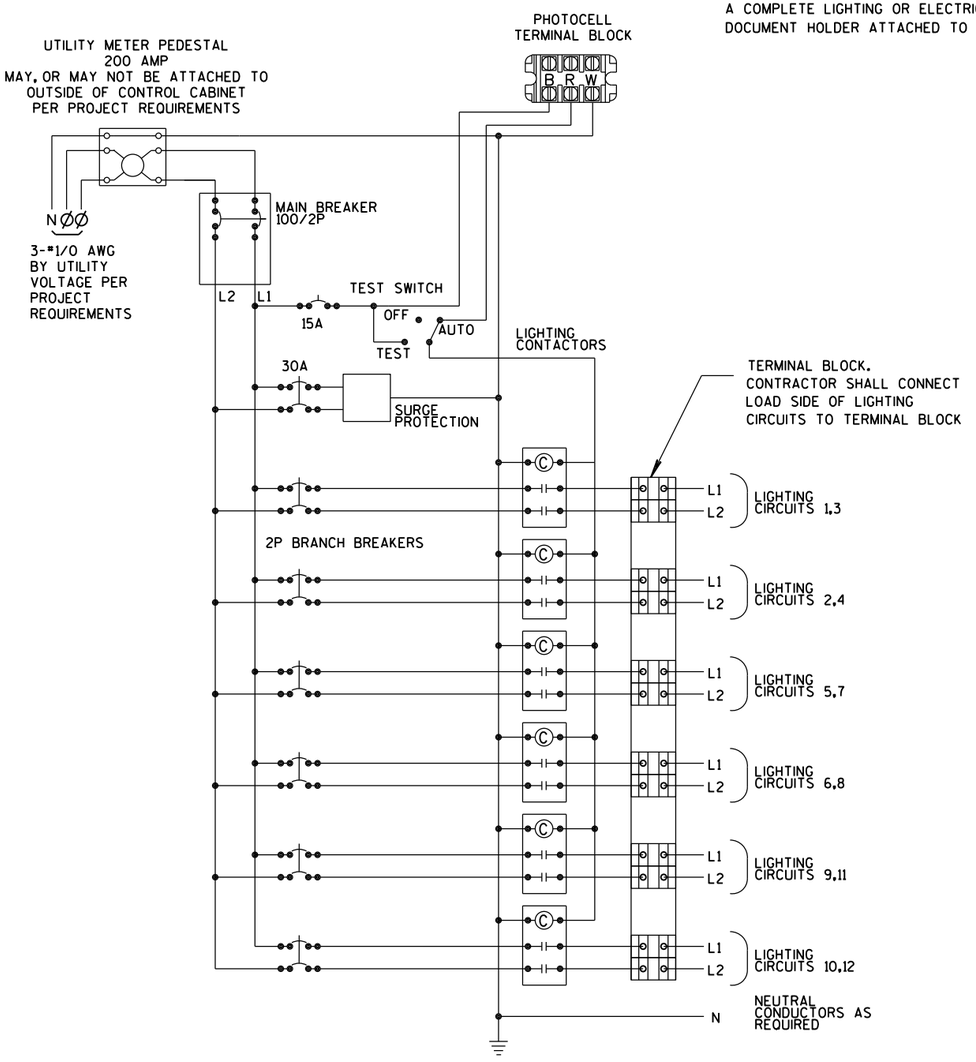


TABLE OF DIMENSIONS (INCHES)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"



CONTROL CABINET SCHEMATIC

LIGHTING CONTROL CABINET

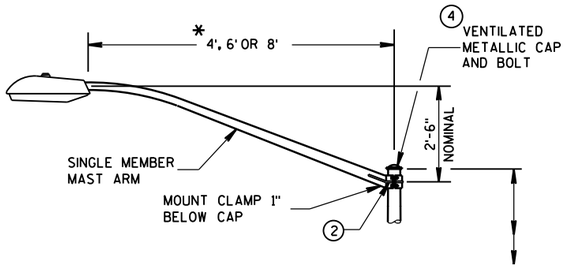
LIGHTING CONTROL CABINET

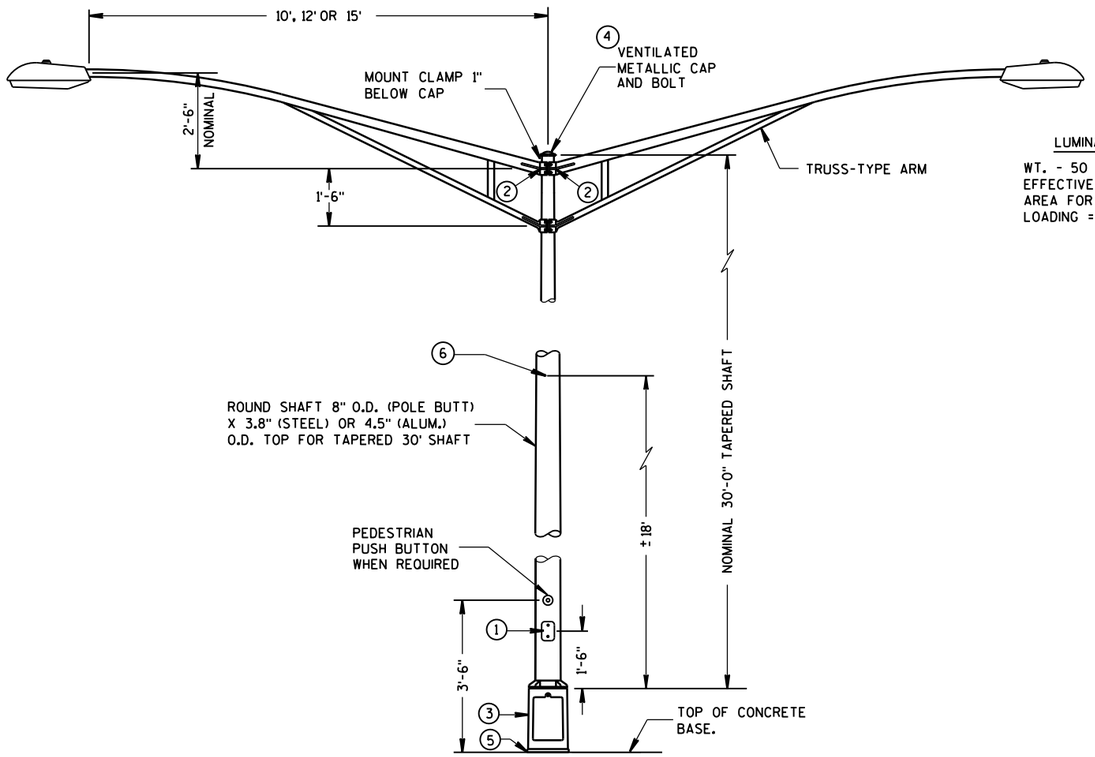
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Thomas Gonring — STATE LIGHTING ENGINEER
298
NYS.
FHWA

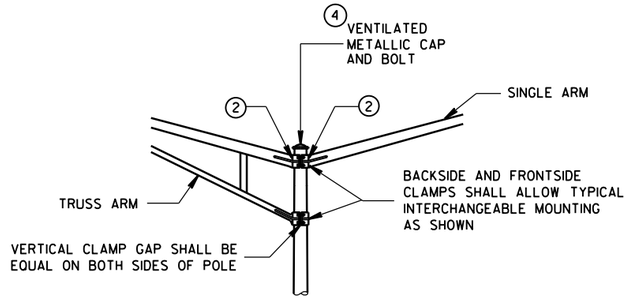
6
S.D.D. 9 D 4-1

*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

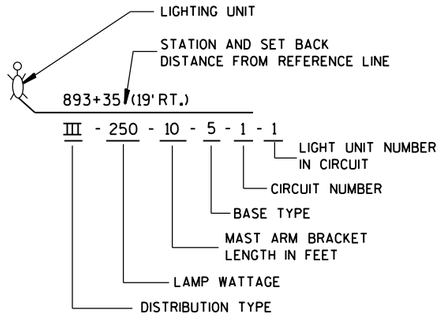
S.D.D. 9 E 1-14d

POLE MONTINGS FOR
LIGHTING UNITS, TYPE 5
(30 FEET)

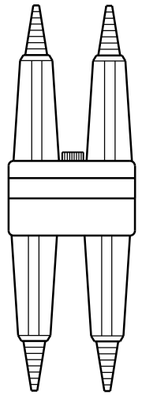
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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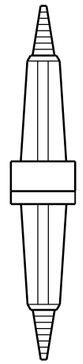
S.D.D. 9 E 1-14d



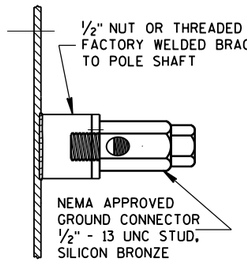
LIGHTING UNIT CODE
(TYPICAL)

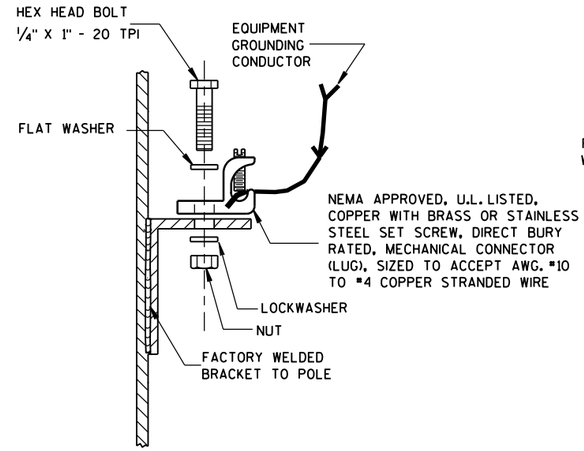


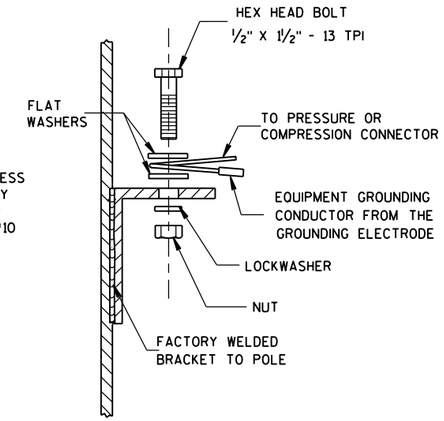
DETAIL "A"
BREAKAWY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



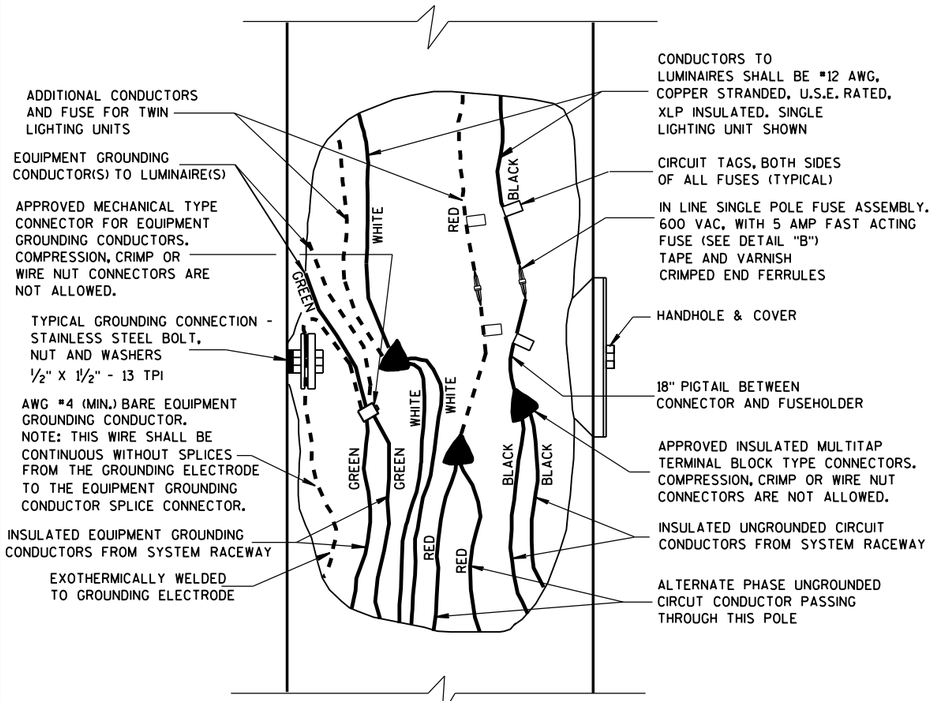
DETAIL "B"
BREAKAWY SINGLE POLE WITH WATERPROOF INSULATING BOOT



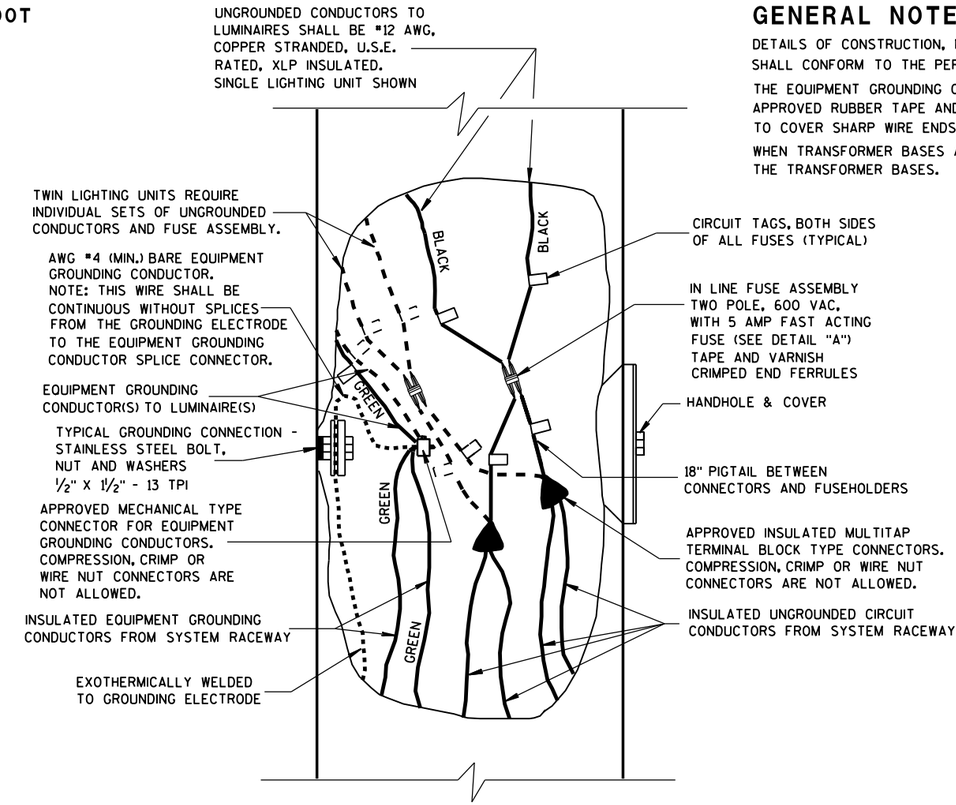




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



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.

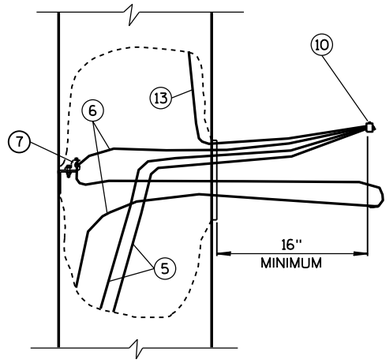
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

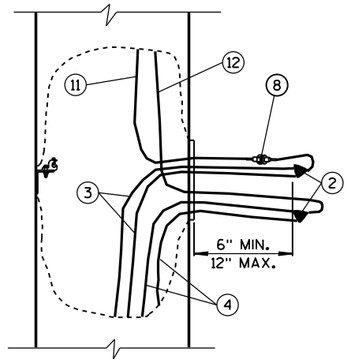
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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Sept. 2014 — DATE
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S.D.D. 9 E 3-5

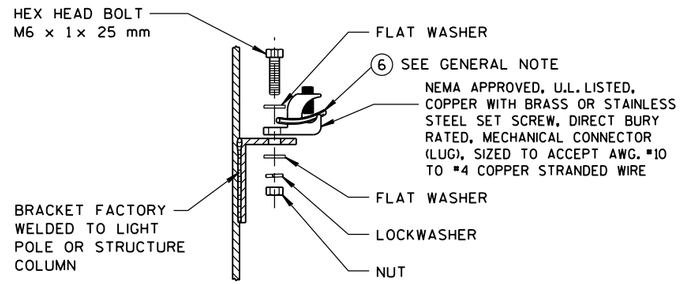


EQUIPMENT GROUNDING CONDUCTOR SLACK



UNGROUNDED CONDUCTOR SLACK (AND GROUNDED NEUTRAL SLACK IN GROUNDED NEUTRAL SYSTEM)

TYPICAL CONDUCTOR SLACK AT HANDHOLES



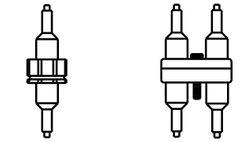
HANDHOLE GROUNDING LUG

(NUT, BOLT, WASHERS, AND LOCK WASHERS SHALL BE STAINLESS STEEL)

CONDUCTOR COLOR CODES

KEY	CONDUCTOR	COLOR
3	UNGROUNDED LINE WIRE	*
4	GROUNDED LINE WIRE	WHITE
5	SYSTEM GROUNDING LINE WIRE	GREEN
6	GROUNDING ELECTRODE CONDUCTOR	BARE
11	UNGROUNDED POLE WIRE	*
12	GROUNDED POLE WIRE	WHITE
13	EQUIPMENT GROUNDING POLE WIRE	GREEN

* FOLLOW COLOR CODING SHOWN IN THE PLANS. WHERE THE PLANS DO NOT SHOW COLOR CODING, USE BLACK FOR SINGLE LUMINAIRE POLES; BLACK AND RED FOR TWIN LUMINAIRE POLES.



1 POLE (1P) 2 POLE (2P)

FUSE ASSEMBLIES

GENERAL NOTES

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

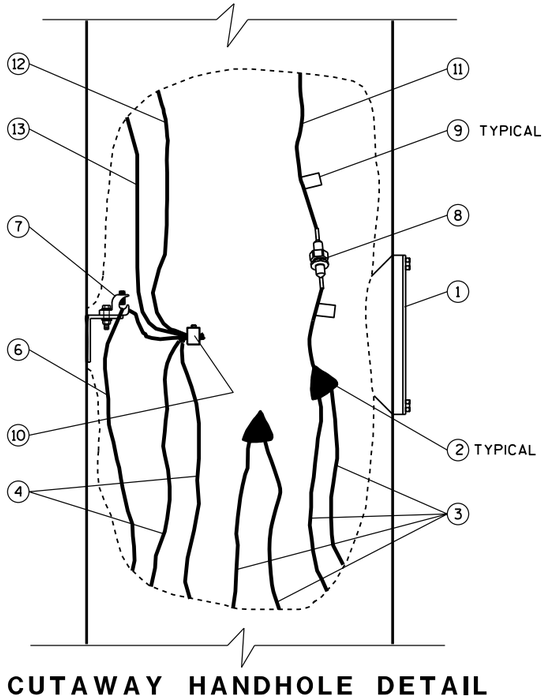
USE THIS DETAIL IN CONJUNCTION WITH THE ELECTRICAL DETAILS FOR THE APPLICATION, WHICH MAY BE A LIGHT POLE, SIGN BRIDGE, ETC.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING LUG TO THE CONNECTOR.

THREE POLE WIRES ARE SHOWN FOR A SINGLE LUMINAIRE LIGHT POLE. THREE ADDITIONAL POLE WIRES REQUIRED FOR TWIN LUMINAIRE LIGHT POLES ARE OMITTED FROM THE DRAWING FOR CLARITY. IN THE TWIN POLE CASE, BUNDLE EACH SET OF THREE WIRES WITH A NYLON CABLE TIE.

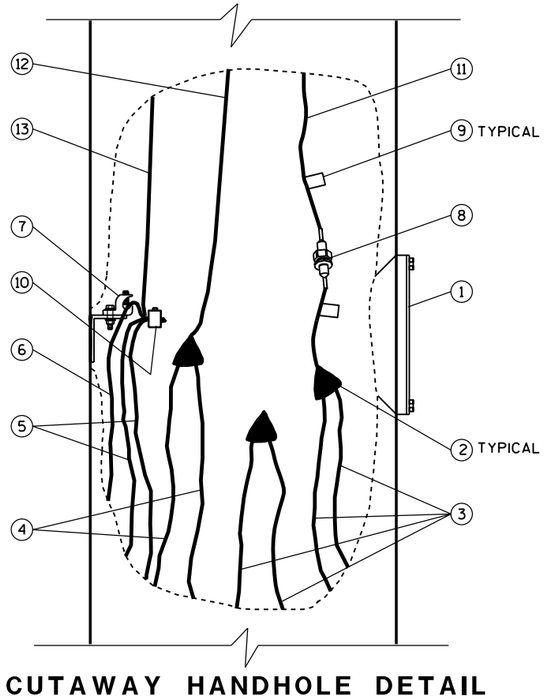
IN 3-PHASE SYSTEMS, THERE WILL BE ONE MORE UNGROUNDED LINE WIRE, WHICH IS OMITTED FROM THE DRAWING FOR CLARITY.

CIRCUIT TAGS SHALL BE INSTALLED ONLY WHERE REQUIRED IN THE SPECIAL PROVISIONS.



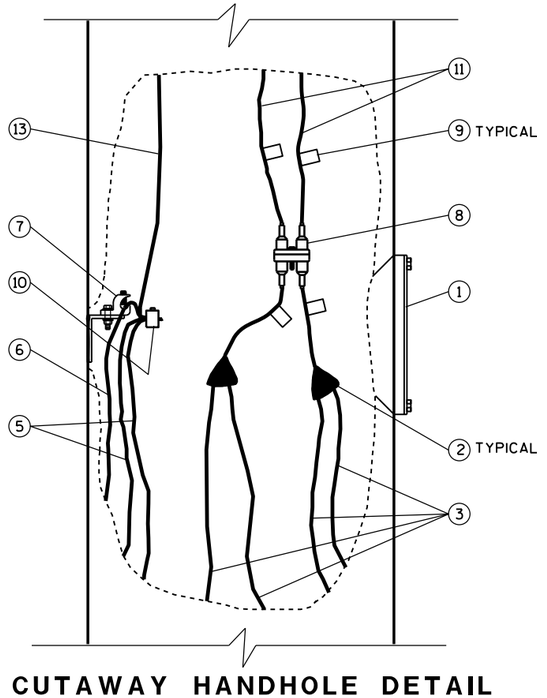
CUTAWAY HANDHOLE DETAIL

GROUNDED NEUTRAL SYSTEMS
1-Φ



CUTAWAY HANDHOLE DETAIL

ISOLATED NEUTRAL SYSTEMS
1-Φ SHOWN; 3-Φ WYE SIMILAR
(SEE GENERAL NOTE)



CUTAWAY HANDHOLE DETAIL

PHASE-TO-PHASE SYSTEMS
1-Φ SHOWN; 3-Φ DELTA SIMILAR
(SEE GENERAL NOTE)

NOTE: REQUIRED CONDUCTOR SLACK NOT SHOWN ON "CUTAWAY HAND HOLE" DETAILS FOR DRAWING CLARITY, SEE "TYPICAL CONDUCTOR SLACK AT HANDHOLES" ON THIS SHEET.

1. HANDHOLE AND COVER
2. INSULATED SPLICE
3. UNGROUNDED LINE WIRE
4. GROUNDED LINE WIRE
5. SYSTEM GROUNDING LINE WIRE
6. GROUNDING ELECTRODE CONDUCTOR
7. HANDHOLE GROUNDING LUG
8. FUSE ASSEMBLY, 1P OR 2P AS REQUIRED
9. CIRCUIT TAG (SEE GENERAL NOTE)
10. REVERSIBLE PRESSURE OR COMPRESSION GROUNDING CONNECTOR (NOT INSULATED)
11. UNGROUNDED POLE WIRE
12. GROUNDED POLE WIRE
13. EQUIPMENT GROUNDING POLE WIRE

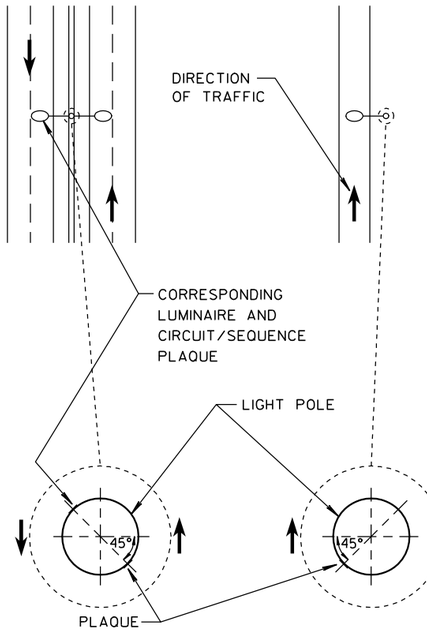
ELECTRICAL HANDHOLE WIRING

STATE OF WISCONSIN
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MEDIAN POLE **SINGLE ARM POLE**

LOCATION OF LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

WHERE SHOWN IN THE PLANS, REPLACEMENT PLAQUES WILL BE MEASURED AND PAID SEPARATELY.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETRORFLECTIVE

LINES - BLACK, 1/2" WIDE, SELF-ADHESIVE

CHARACTERS - BLACK, SELF-ADHESIVE, SERIES "D", SIZE AS SHOWN

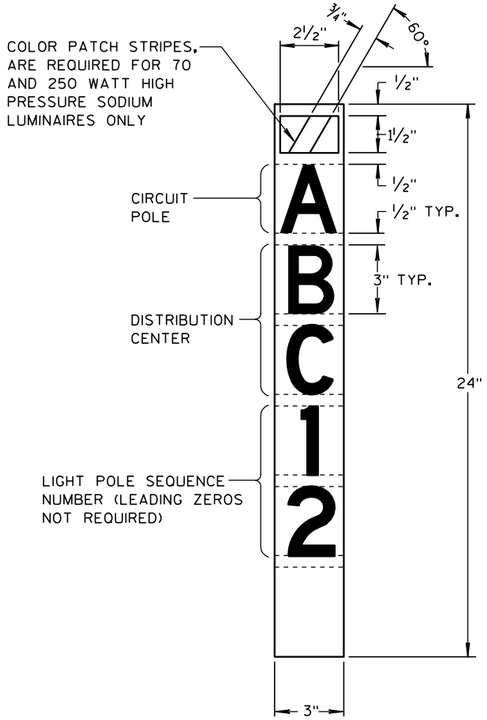
COLOR PATCHES - VARIOUS COLORS, SELF-ADHESIVE VINYL SHEETING

WITH THE APPROVAL OF THE ENGINEER, THE BASE MATERIAL MAY BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE SURFACE, IN CASES SUCH AS SMOOTH, CLEAN ALUMINUM POLES.

ALTERNATIVE COMPUTER-GENERATED SIGN LETTERING MAY BE ACCEPTED IF THE ENGINEER FINDS IT TO BE EQUIVALENT.

COLOR PATCH CODE FOR HPS LUMINAIRES

1000 WATT - NO PATCH
400 WATT - ORANGE
310 WATT - BLUE
250 WATT - ORANGE WITH WHITE STRIPE
200 WATT - RED
150 WATT - GREEN
100 WATT - BROWN
70 WATT - BROWN WITH WHITE STRIPE



LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

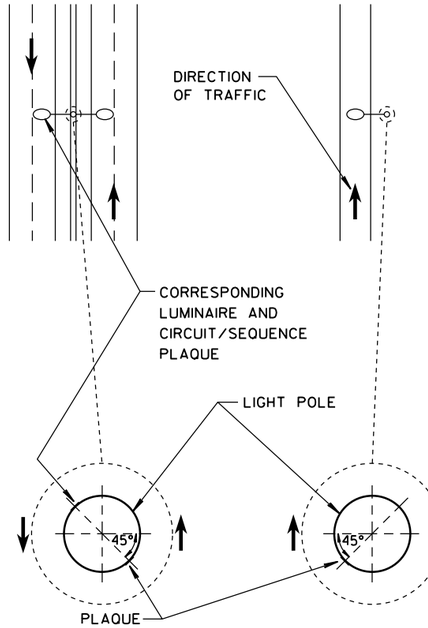
IDENTIFICATION PLAQUES LIGHT POLES		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
APPROVED 10/25/2010 DATE	/S/ John Corbin STATE ELECTRICAL ENGI	302 HWYS
FHWA		

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MEDIAN POLE SINGLE ARM POLE

LOCATION OF LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

WHERE SHOWN IN THE PLANS, REPLACEMENT PLAQUES WILL BE MEASURED AND PAID SEPARATELY.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETRORFLECTIVE

LINES - BLACK, 1/2" WIDE, SELF-ADHESIVE

CHARACTERS - BLACK, SELF-ADHESIVE, SERIES "D", SIZE AS SHOWN

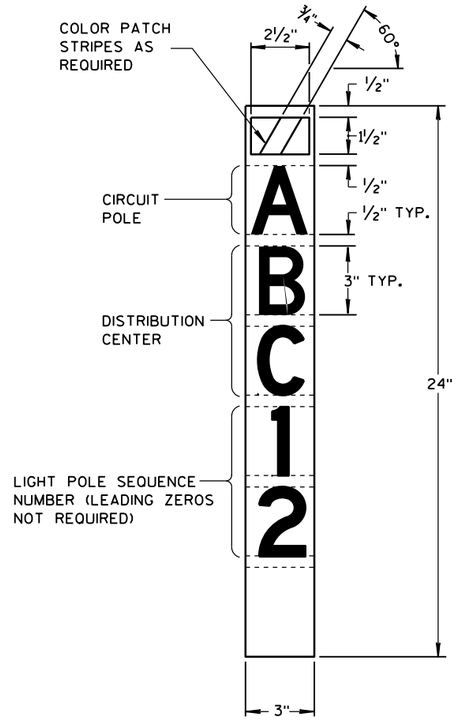
COLOR PATCHES - VARIOUS COLORS, SELF-ADHESIVE VINYL SHEETING

WITH THE APPROVAL OF THE ENGINEER, THE BASE MATERIAL MAY BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE SURFACE, IN CASES SUCH AS SMOOTH, CLEAN ALUMINUM POLES.

ALTERNATIVE COMPUTER-GENERATED SIGN LETTERING MAY BE ACCEPTED IF THE ENGINEER FINDS IT TO BE EQUIVALENT.

COLOR PATCH CODE FOR HPS AND LED LUMINAIRES

HPS	LED	COLOR PATCH CODE
1000 WATT		NO PATCH
400 WATT	CATEGORY D	ORANGE
310 WATT		BLUE
250 WATT	CATEGORY C	ORANGE WITH WHITE STRIPE
200 WATT		RED
150 WATT	CATEGORY B	GREEN
100 WATT	CATEGORY A	BROWN
70 WATT	CATEGORY UDL	BROWN WITH WHITE STRIPE



LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

IDENTIFICATION PLAQUES LIGHT POLES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 DATE
/S/ Ahmet Demirbilek STATE ELECTRICAL
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S.D.D. 10 A 2-3

GENERAL NOTES

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

USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING LUG TO THE CONNECTOR.

WIRING FOR SINGLE LUMINAIRE POLES IS SHOWN WITH SOLID LINES. WIRING FOR THE SECOND LUMINAIRE OF TWIN LUMINAIRE POLES IS SHOWN WITH DOTTED LINES.

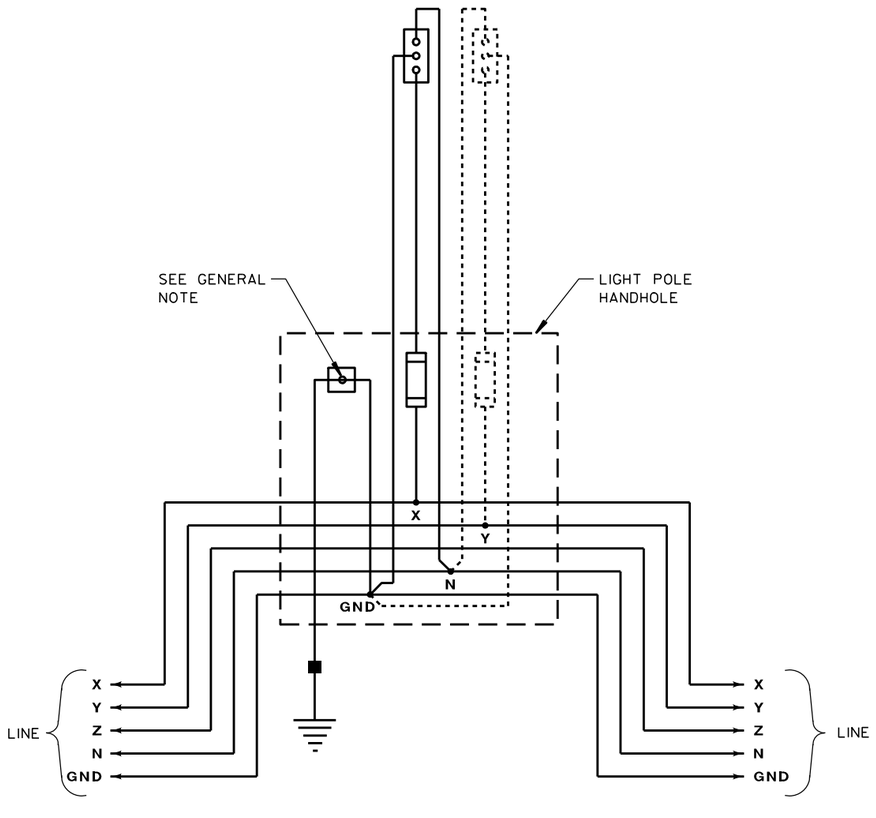
THE PLANS WILL SHOW WHICH CIRCUIT LEG(S) ARE CONNECTED TO EACH INSTALLATION.

HANDHOLE FUSE SCHEDULES

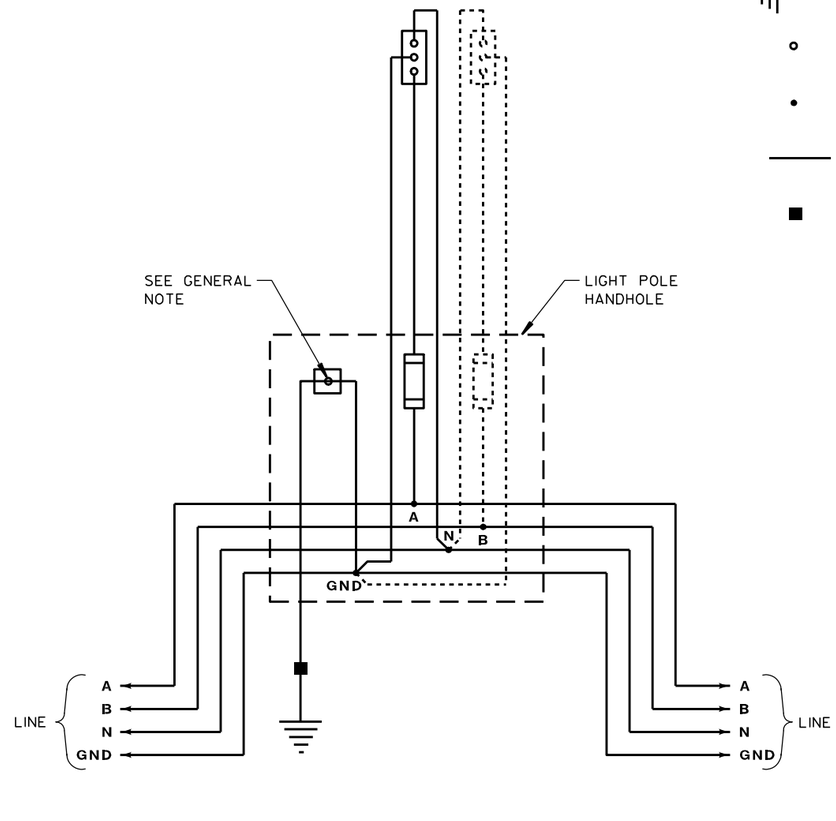
LINE VOLTAGE	BALLAST WATTAGE	
φ-GROUND	70-200 W	250-400 W
120 VAC	5 A	10 A
240 VAC	5 A	5 A
277 VAC	5 A	5 A
480 VAC	3 A	5 A

LEGEND

A,B,X,Y,Z	UNGROUNDED CIRCUIT CONDUCTORS
N	GROUNDED CIRCUIT CONDUCTORS
GND	EQUIPMENT GROUNDING CONDUCTOR
P	POLE (ELECTRICAL CIRCUIT)
φ	PHASE (ELECTRICAL CURRENT)
	HANDHOLE GROUND LUG
	SINGLE-POLE (1P) FUSE ASSEMBLY
	TWO-POLE (2P) FUSE ASSEMBLY
	UNFUSED LUMINAIRE
	EQUIPMENT GROUNDING ELECTRODE
	TERMINAL
	SPLICE
	CONDUCTOR
	EXOTHERMIC WELD



TYPICAL WIRING DIAGRAM
ISOLATED NEUTRAL SYSTEM
3-φ 208Y/120VAC OR 480Y/277VAC 4 WIRE



TYPICAL WIRING DIAGRAM
ISOLATED NEUTRAL SYSTEM
1-φ 120/240VAC OR 240/480VAC 3 WIRE

ELECTRICAL DETAILS
GROUND MOUNT LIGHT POLES
ISOLATED NEUTRAL SYSTEM

STATE OF WISCONSIN
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10/25/2010 DATE
/S/ John Corbin STATE ELECTRICAL ENGI
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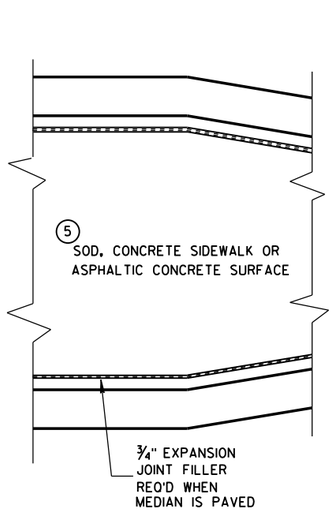
HWYS

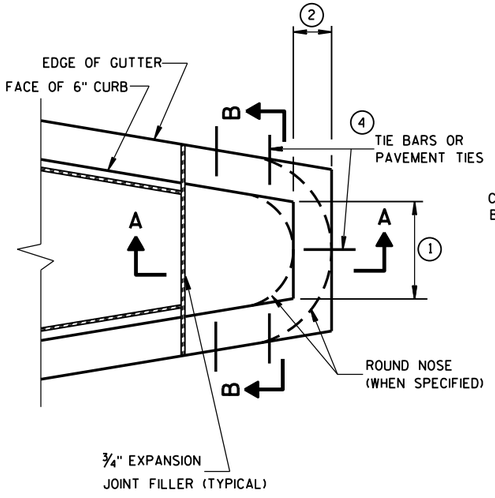
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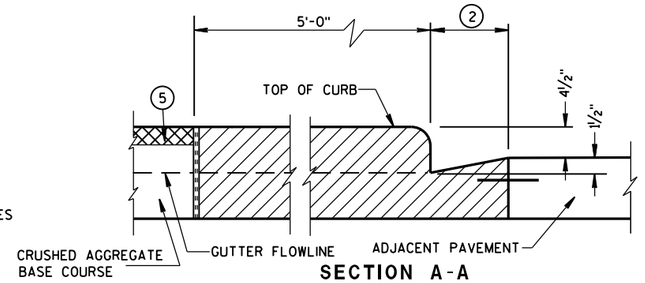
S.D.D. 10 A 5-2

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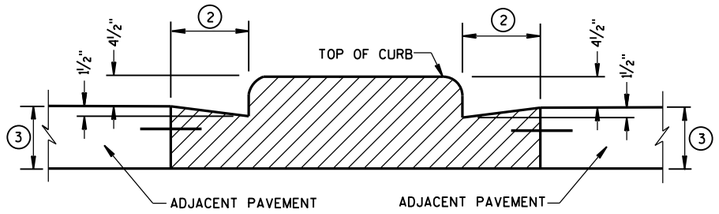
S.D.D. 10 A 5-2







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.

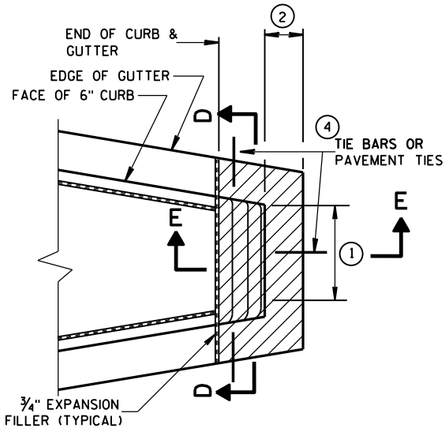
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

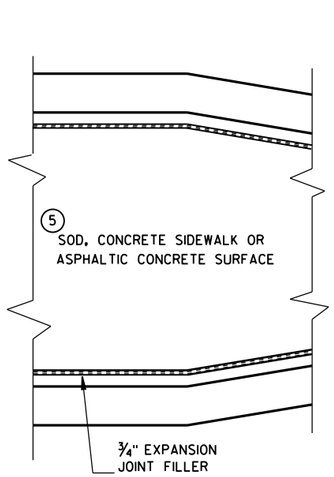
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

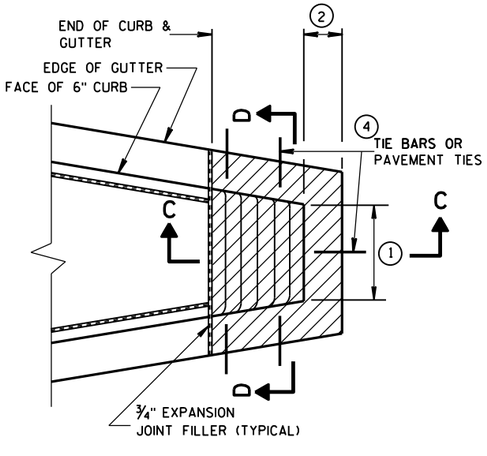
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

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.

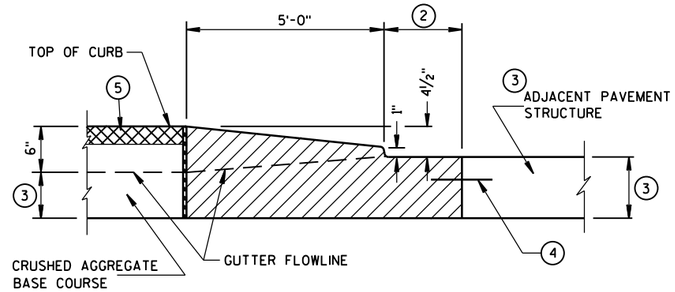
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



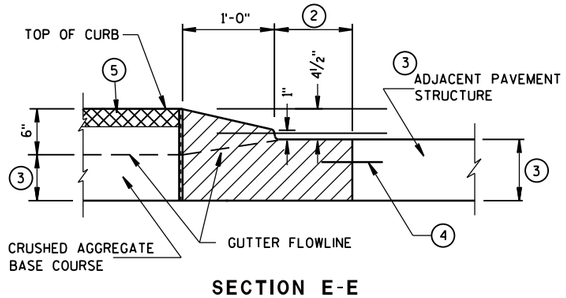




CONCRETE MEDIAN SLOPED NOSE TYPE 1

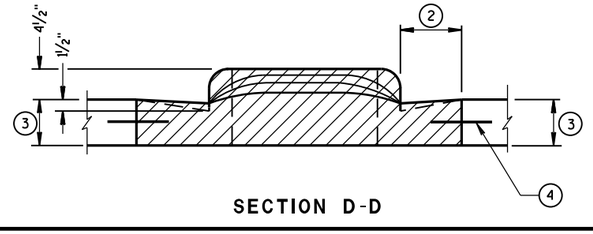


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

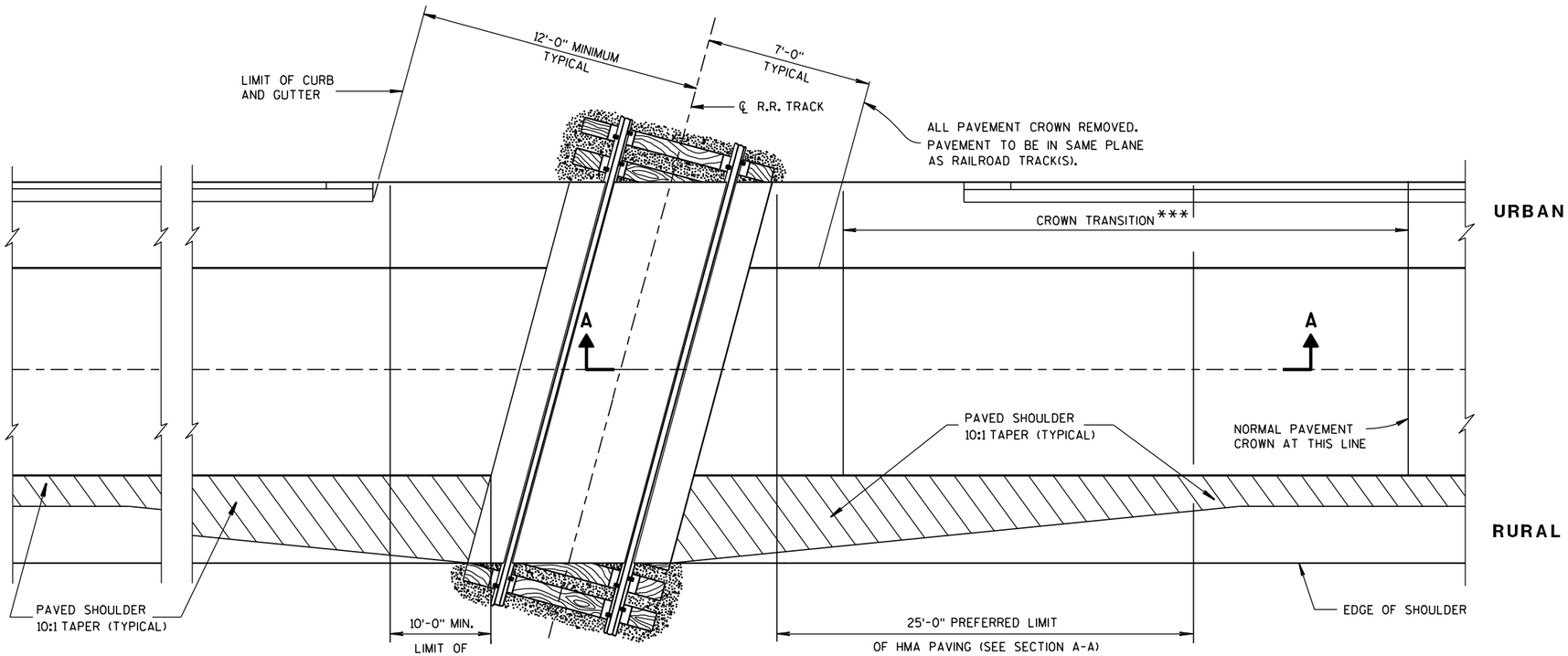
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

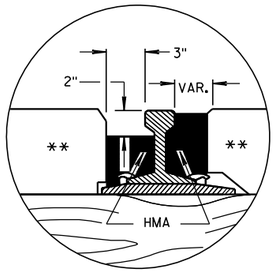
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S.D.D. 11 B 2-2

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S.D.D. 11 B 2-2





DETAIL B

HMA FLANGEWAY AND FIELD FILLERS

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.

TIMBER, CONCRETE OR RUBBER CROSSING SURFACE MATERIAL, RAILS, TIES, BALLAST, GEOTEXTILE FABRIC AND CROSSING DRAINAGE SYSTEM BY OTHERS UNLESS OTHERWISE PROVIDED.

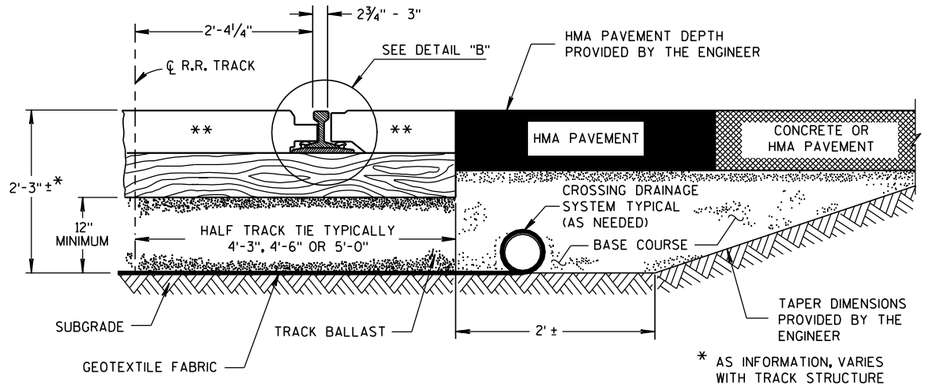
HMA PAVEMENT APPROACHES AND HMA PAVEMET CROSSING SURFACES TO BE PLACED BY CONTRACTOR UNLESS OTHERWISE PROVIDED.

HMA FLANGEWAY AND FIELD FILLERS TO BE PLACED AND THOROUGHLY HAND COMPACTED BY THE CONTRACTOR WHEN NOT PROVIDED BY OTHERS. SEE DETAIL B. HMA FILLERS NOT REQUIRED WHEN RUBBER FILLERS ARE PROVIDED.

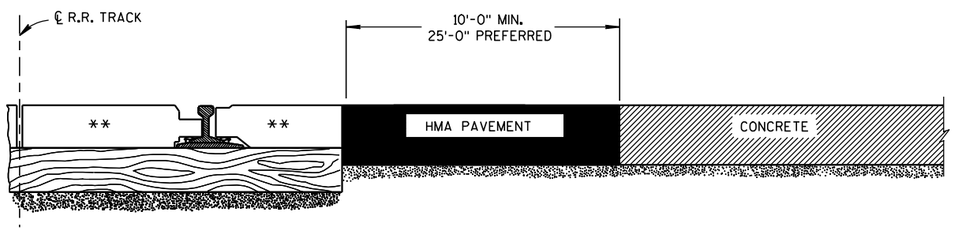
HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

** CROSSING SURFACE MAY BE TIMBER, RUBBER, CONCRETE, HMA PAVEMENT OR A COMBINATION OF SUCH MATERIALS.

*** CROWN TRANSITION LENGTH SHOWN ELSEWHERE IN THE PLAN.



TYPICAL HALF SECTION



SECTION A-A

CONCRETE PAVEMENT APPROACH



SECTION A-A

HMA PAVEMENT APPROACH

EXAMPLES OF PAVEMENT APPROACHES

PAVEMENT DETAILS FOR RAILROAD APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

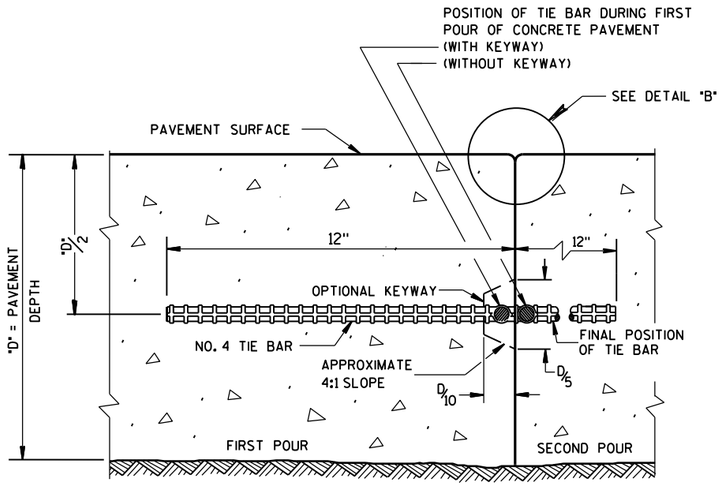
APPROVED
8-28-09 DATE
/S/ Ronald E. Adams
CHIEF, RAILROADS & HAI[illegible]306 CTION
FHWA

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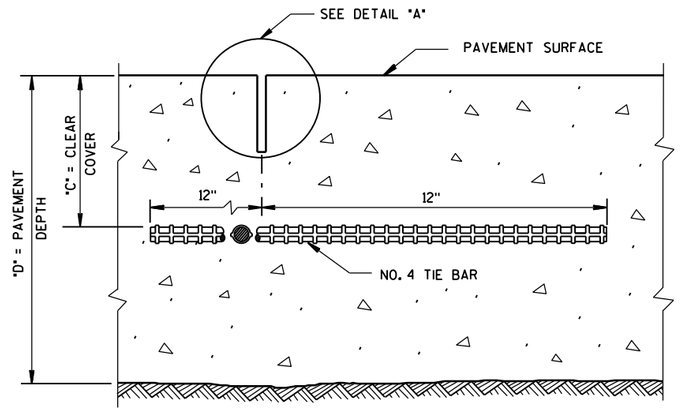
S.D.D. 13 B 1-10

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S.D.D. 13 B 1-10



CONSTRUCTION JOINT



SAWED JOINT

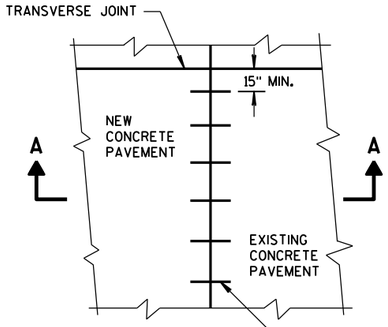
GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

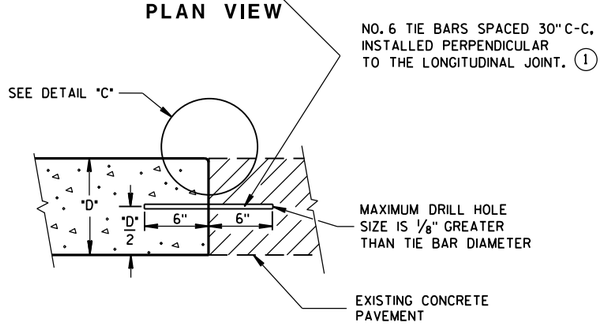
CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

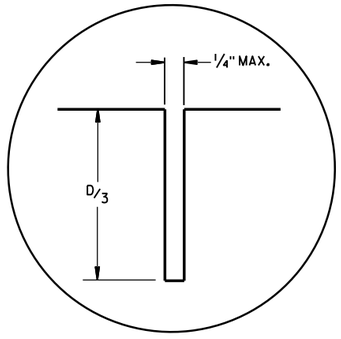


PLAN VIEW

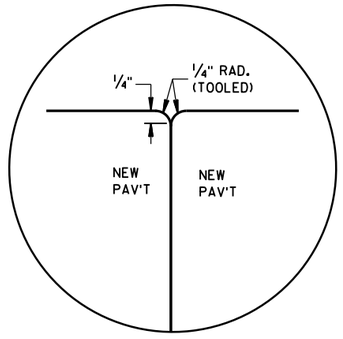


SECTION A-A

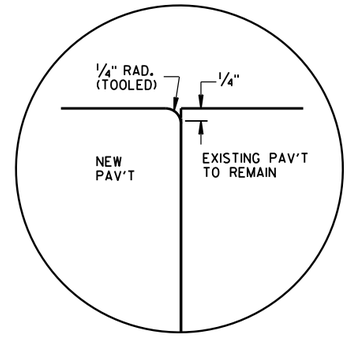
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



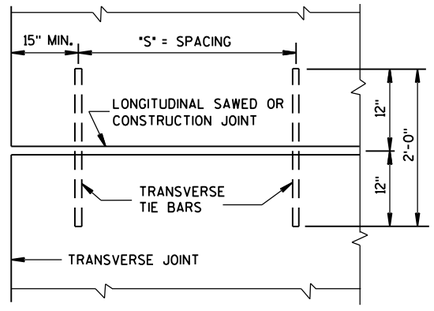
DETAIL "B"



DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH "D"	CLEAR COVER "C"	MAXIMUM TIE BAR SPACING "S"	
		PAVEMENT WIDTH	
		24' OR 26'	≥30'
6, 6 1/2"	3"±1/2"	48"	42"
7, 7 1/2"	3 1/4"±1"	45"	36"
8, 8 1/2"	3 3/4"±1"	39"	30"
9, 9 1/2"	4 1/4"±1"	33"	27"
10, 10 1/2"	4 3/4"±1"	30"	24"
11, 11 1/2"	5 1/4"±1"	27"	21"
12"	5 3/4"±1"	24"	21"



PLAN VIEW
SHOWING LOCATION OF TIE BARS

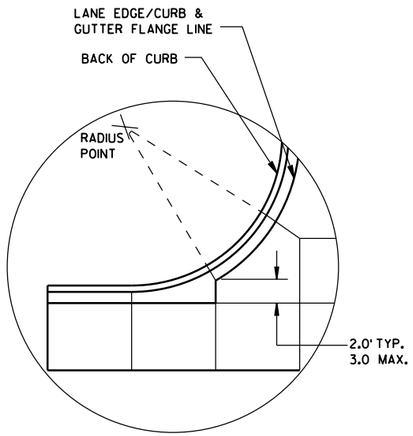
CONCRETE PAVEMENT
LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

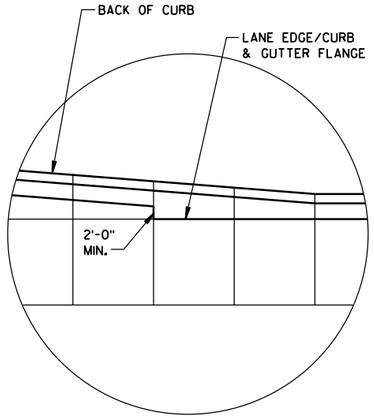
APPROVED
9/2014 DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE ENGINEER
FHWA

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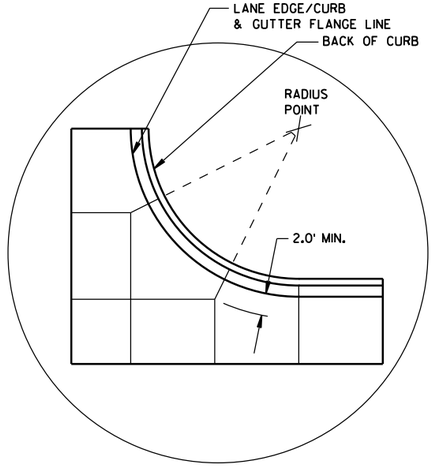
S.D.D. 13 C 1-17



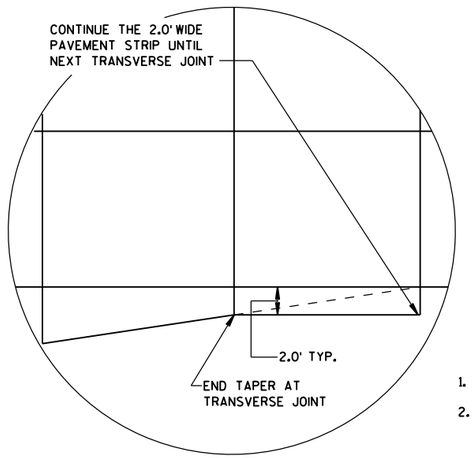
DETAIL "A"



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.

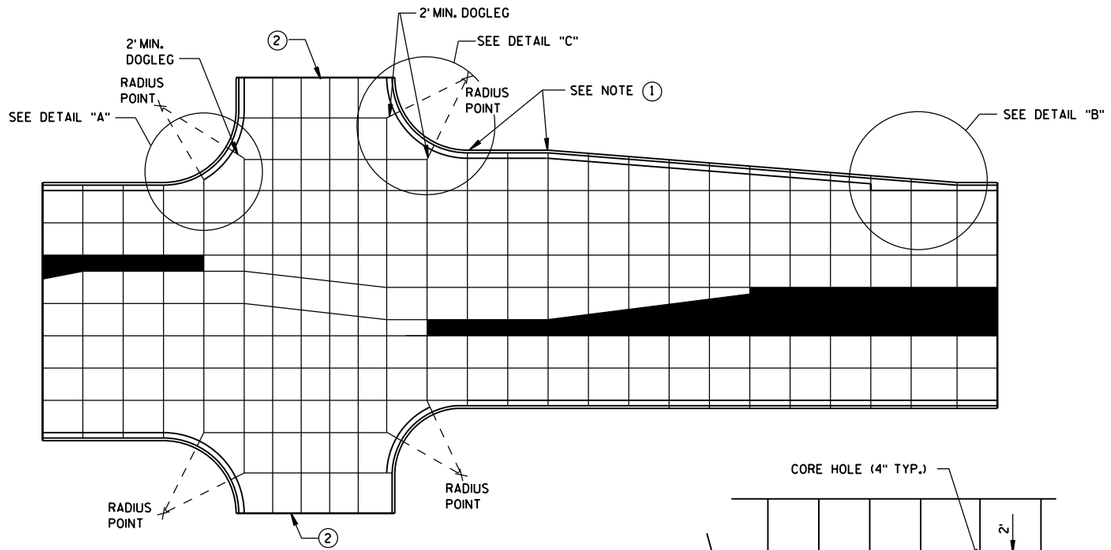
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

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.

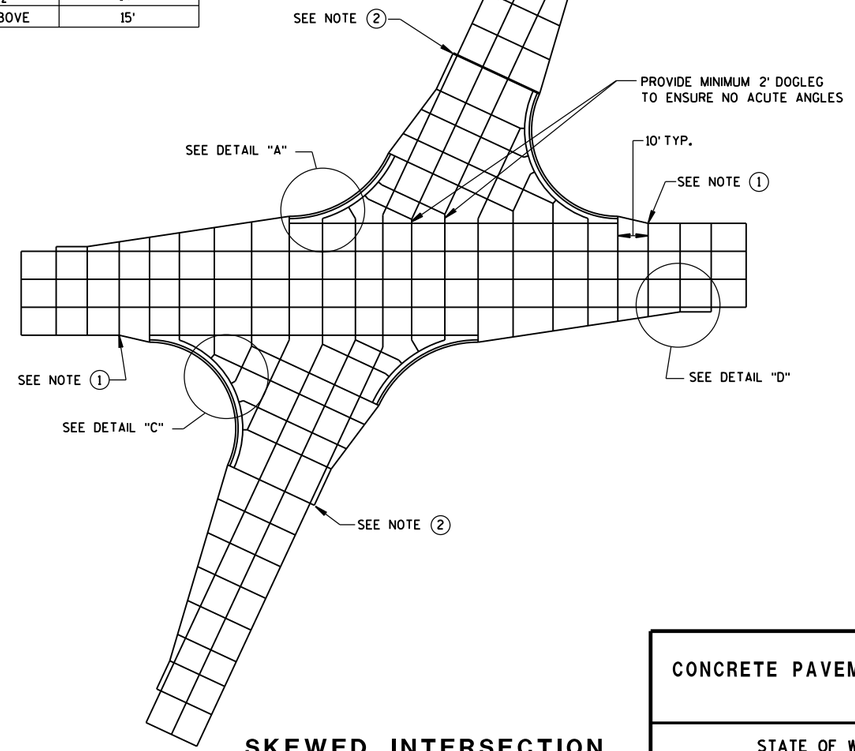
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



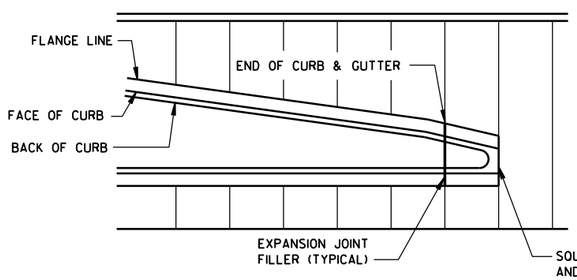
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

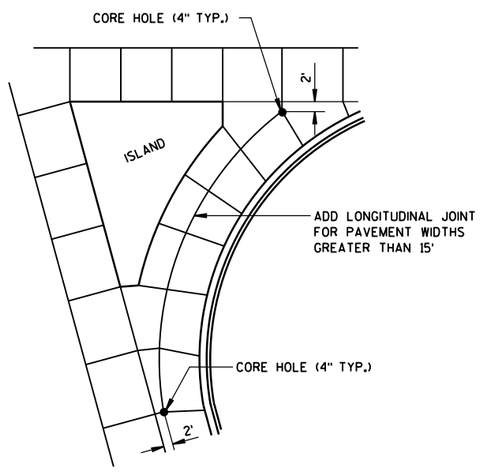
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 308

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S.D.D. 13 C 18-2a

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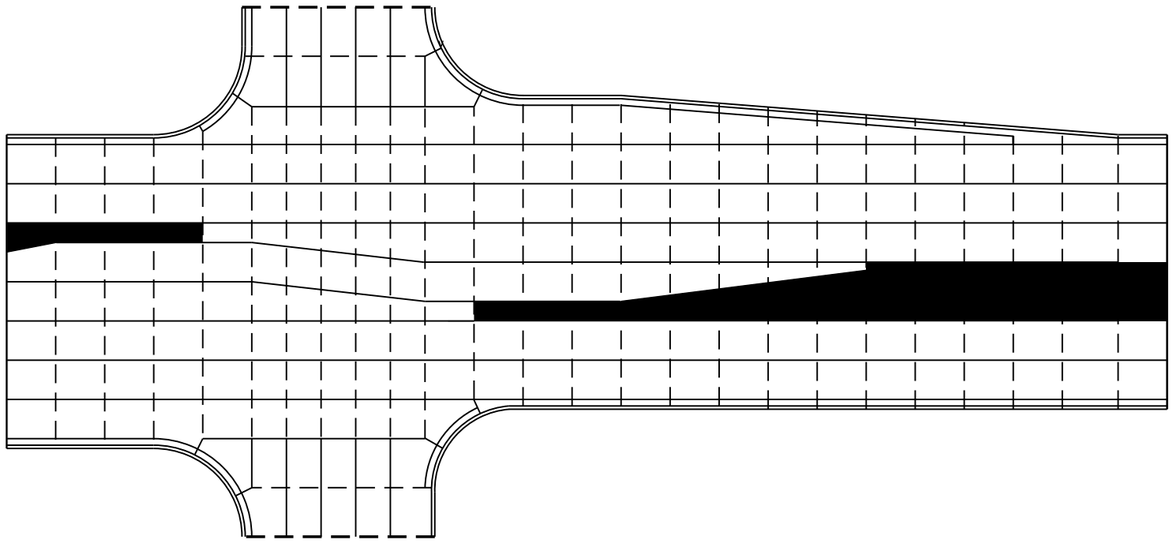
S.D.D. 13 C 18-2a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

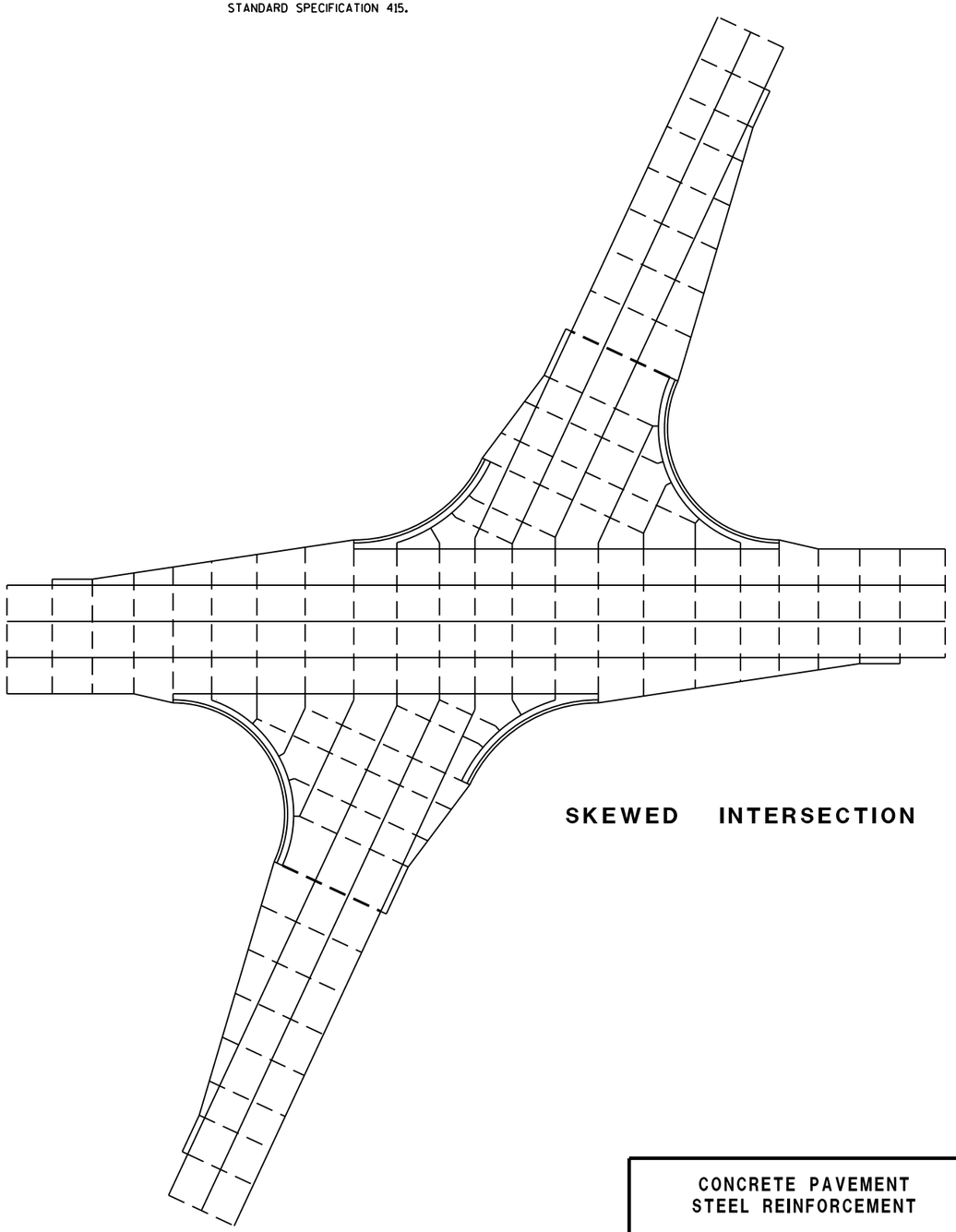
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

CONCRETE PAVEMENT
STEEL REINFORCEMENT

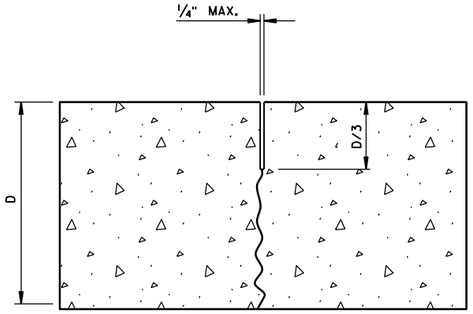
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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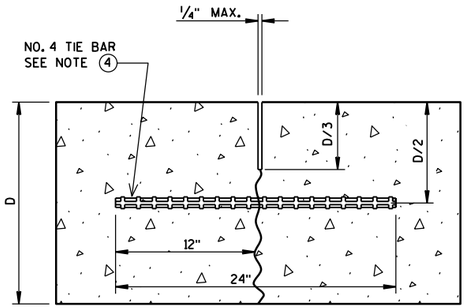
S.D.D. 13 C 18-2b

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S.D.D. 13 C 18-2b



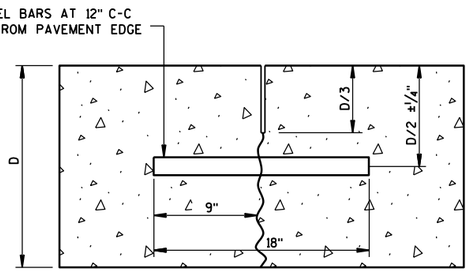
UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

GENERAL NOTES

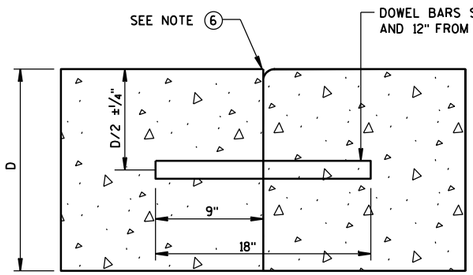
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. SPACE TIE BARS AT LONGITUDINAL CONSTRUCTION OR CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C1.
5. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
6. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.



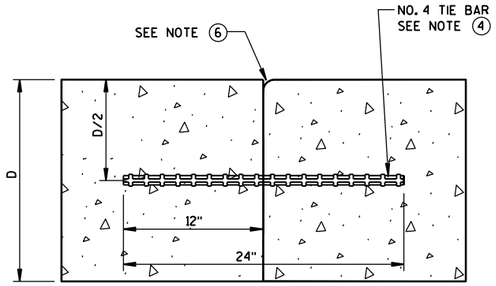
DOWELED-TRANSVERSE

CONTRACTION JOINTS

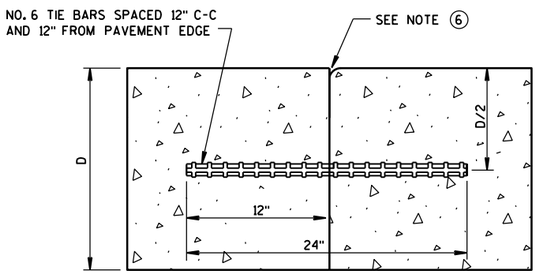
SEE NOTE (2)



DOWELED TRANSVERSE

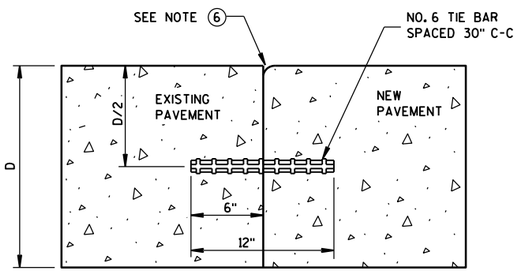


TIED LONGITUDINAL



TIED TRANSVERSE

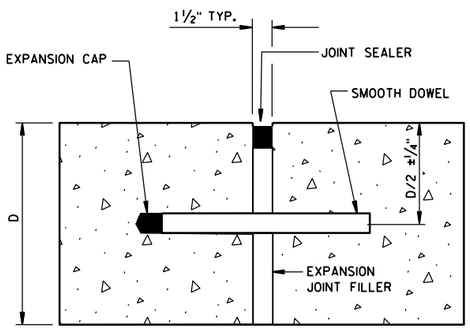
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

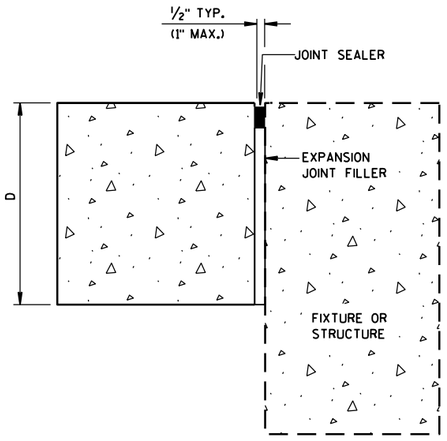
CONSTRUCTION JOINTS

SEE NOTE (5)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

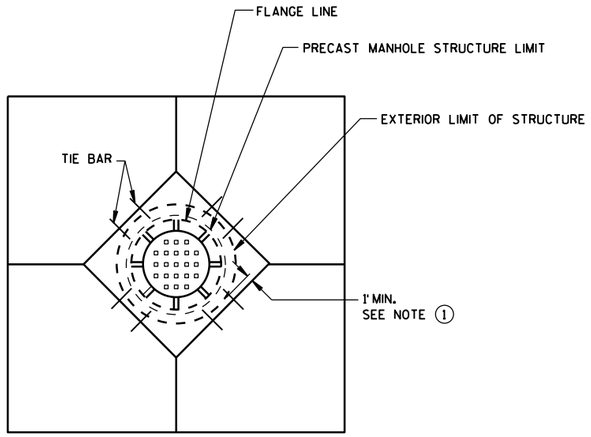
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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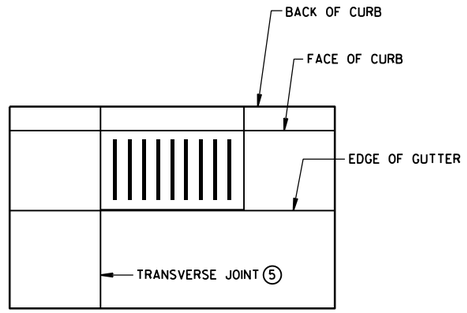
S.D.D. 13 C 18-2c

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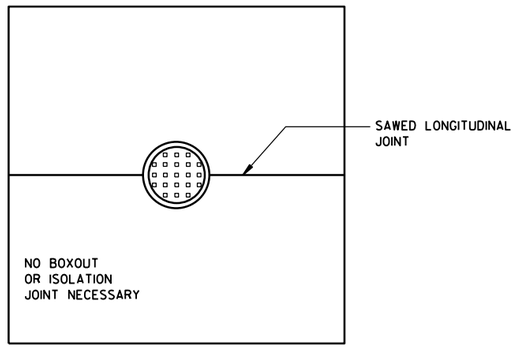
S.D.D. 13 C 18-2c



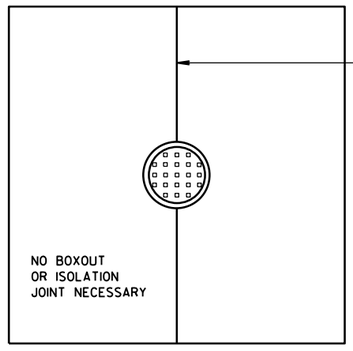
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



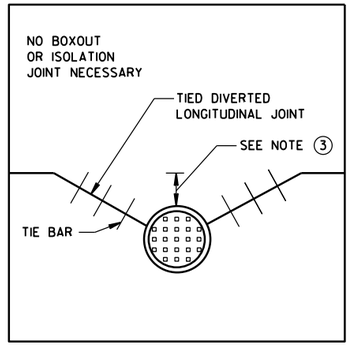
INLET WITH TRANSVERSE JOINT



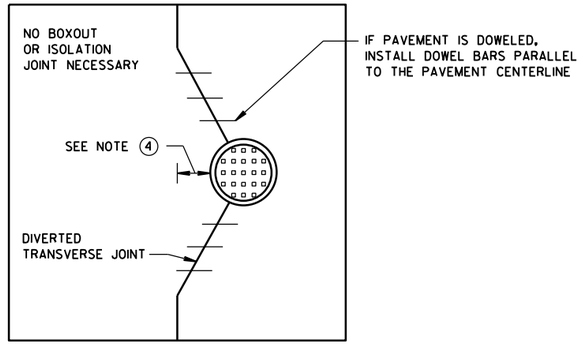
MANHOLE WITH LONGITUDINAL JOINT



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

5-3-2013	/S/ Deb Bischoff	
DATE	PAVEMENT POLICY & DE	NEER

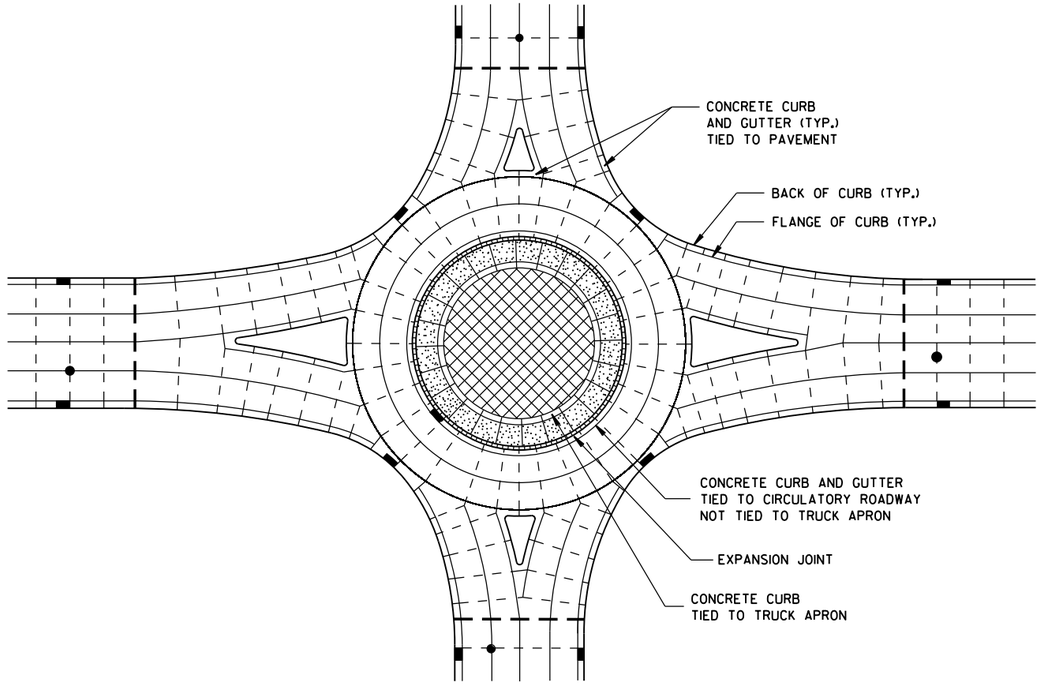
FHWA

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S.D.D. 13 C 18-2d

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES



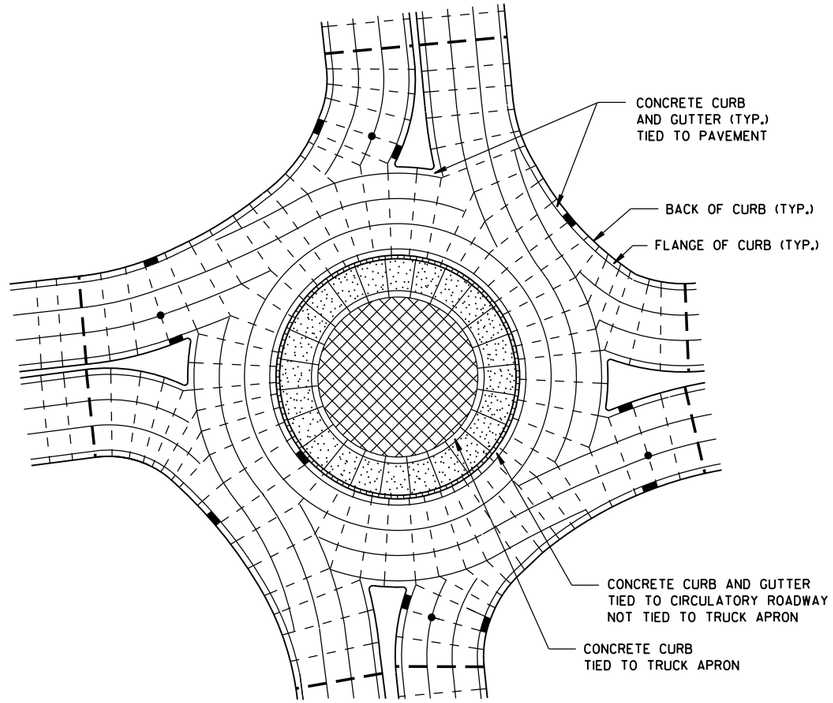
ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS

GENERAL NOTES

MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18 SHEET "a".

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.



PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

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S.D.D. 13 C 18-2e

S.D.D. 13 C 18-2e

CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS

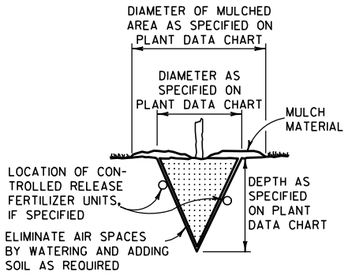
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

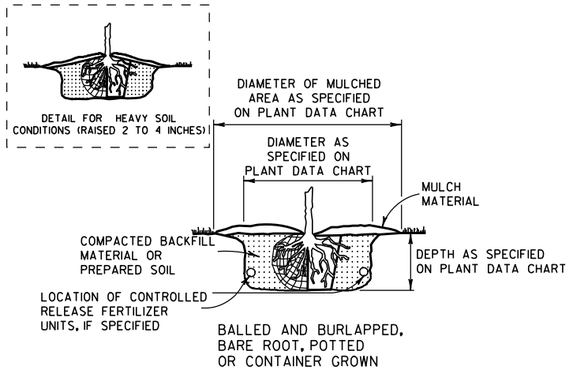
5-3-2013
DATE

/S/ Deb Bischoff
PAVEMENT POLICY & DE ENGINEER

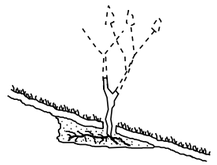
FHWA



MACHINE MOVED

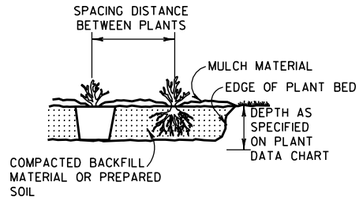


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



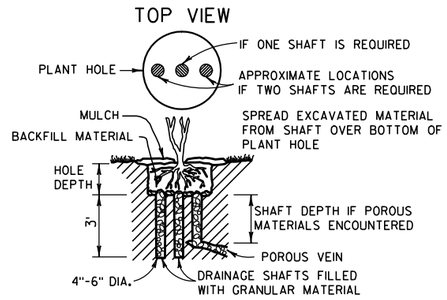
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



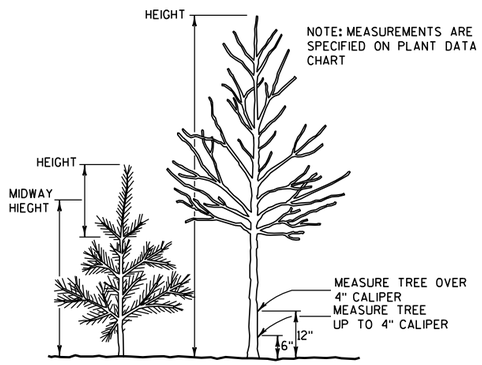
PREPARED BED (BARE ROOT AND POTTED)

PLANTING

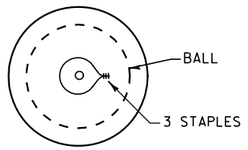


NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

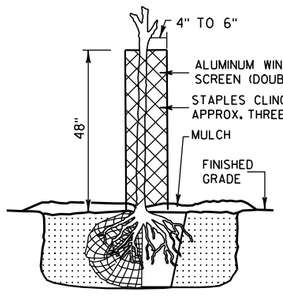
DRAINING



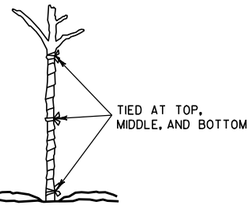
MEASURING



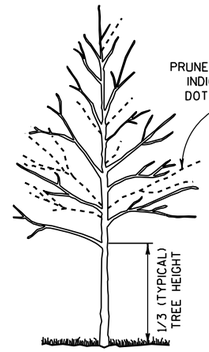
TOP VIEW



RODENT PROTECTION



WRAPPING

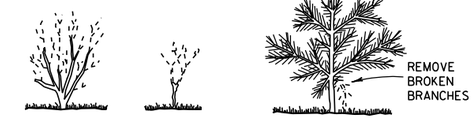


TALL DECIDUOUS TREES (ASH, MAPLE, LINDEN, OAK)

SINGLE STEMMED LOW DECIDUOUS TREES (CRABS AND OTHER SINGLE STEM TYPE)

MULTI-STEMMED LOW DECIDUOUS TREES OR LARGE SHRUBS (HAWTHORN, SERVICEBERRY)

NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES

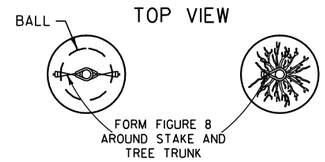


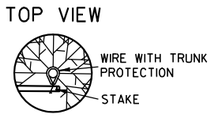
SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

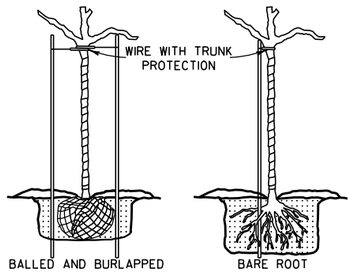
SUMAC

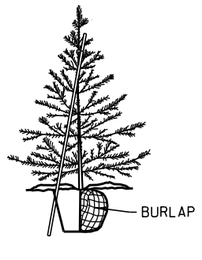
TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

PRUNING



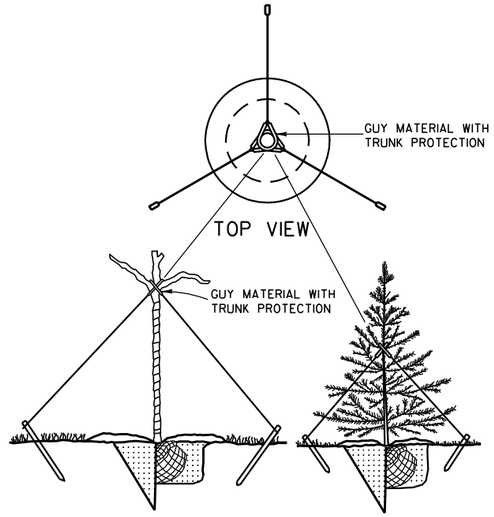






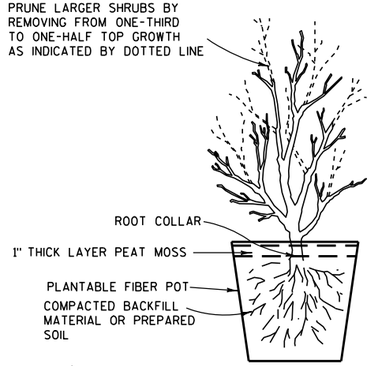
NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING

PRUNE LARGER SHRUBS BY REMOVING FROM ONE-THIRD TO ONE-HALF TOP GROWTH AS INDICATED BY DOTTED LINE



POTTING

NOTES

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

BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

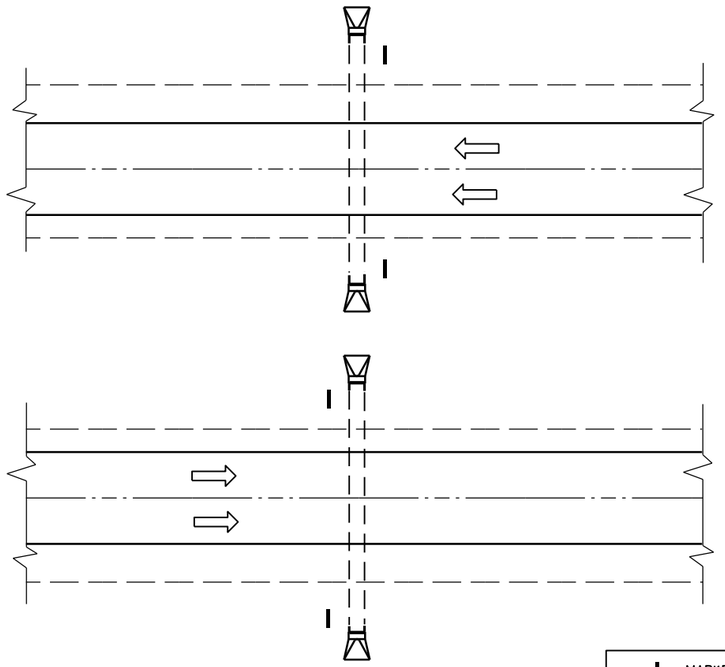
TREE PLANTING DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/11/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

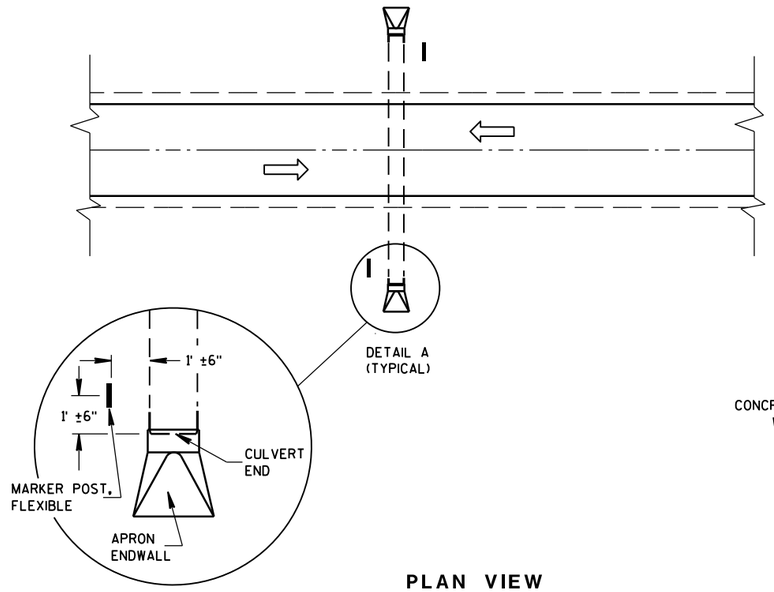
S.D.D. 14 A 2-1

6



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

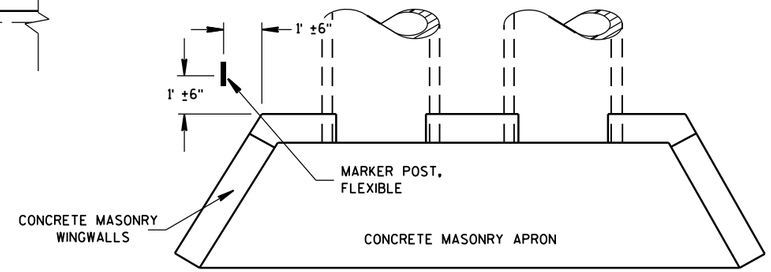
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

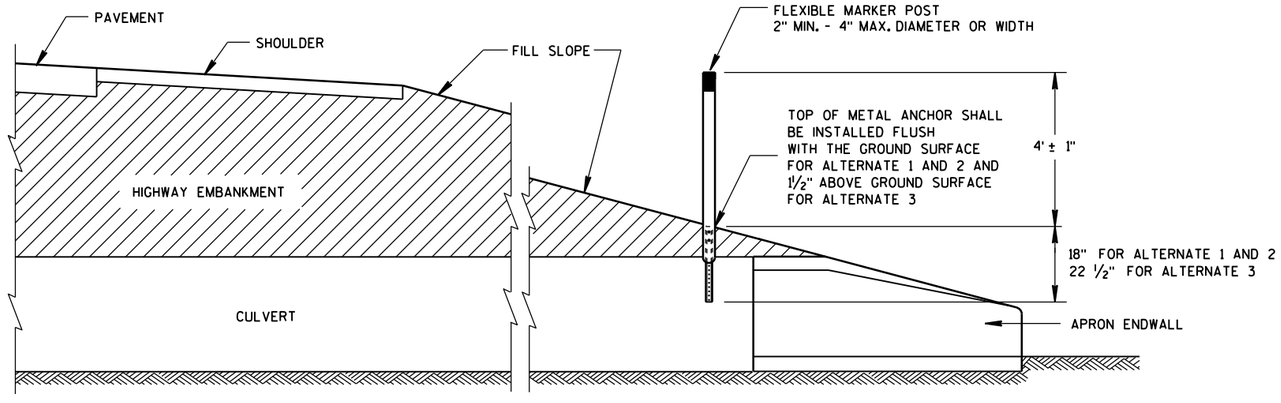
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

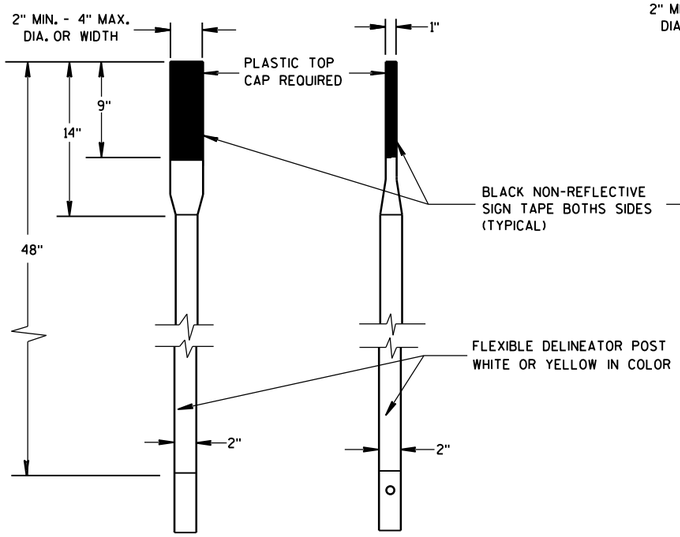
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

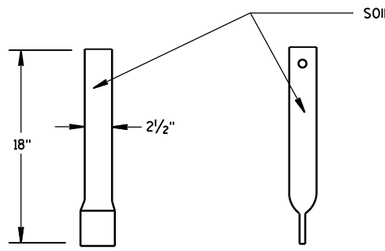
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S.D.D. 15 A 3-2a

6

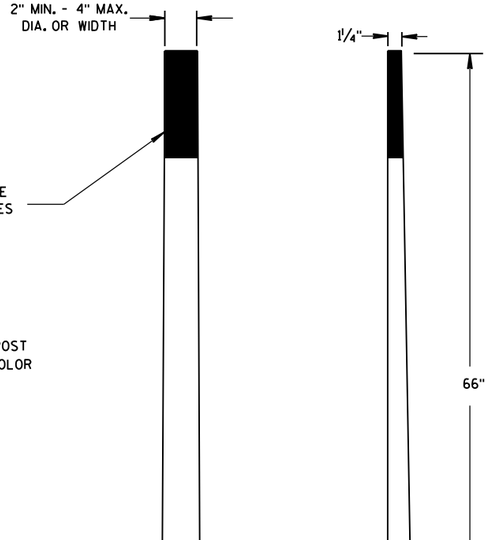
S.D.D. 15 A 3-2a





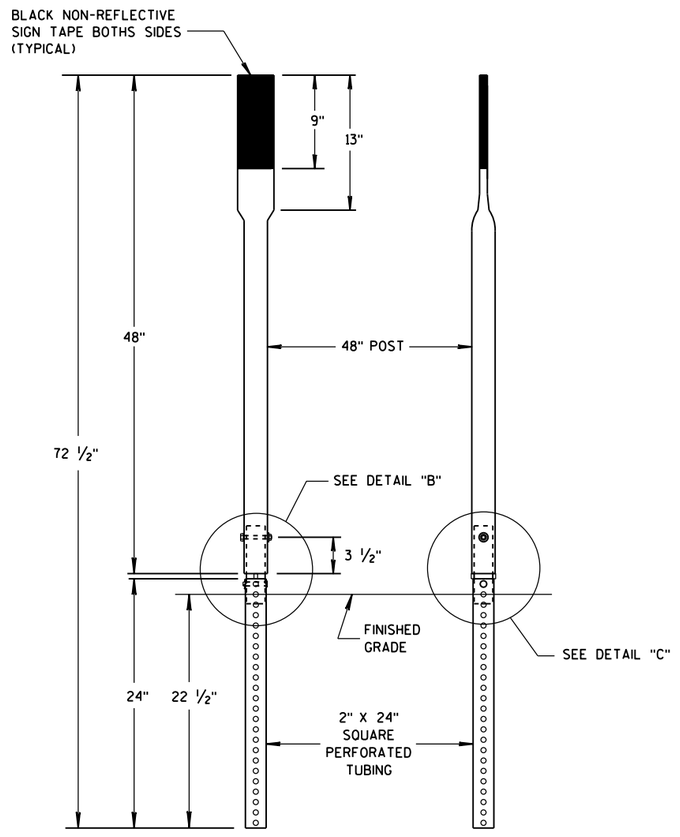
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

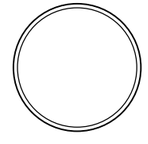
ALTERNATE 2



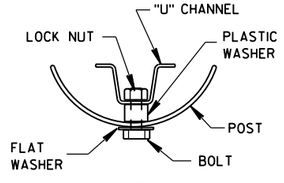
FRONT VIEW SIDE VIEW

ALTERNATE 3

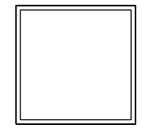
FLEXIBLE MARKER POSTS



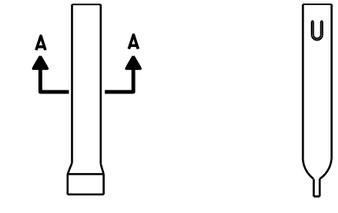
SECTION A-A



SECTION B-B

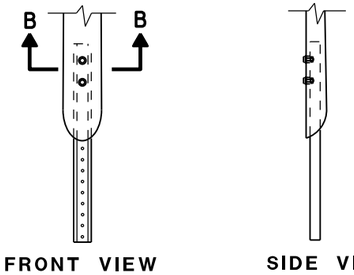


SECTION C-C



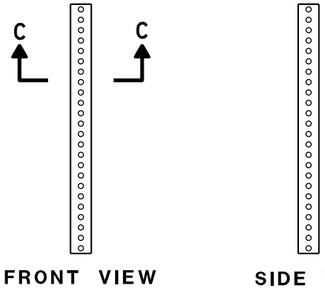
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

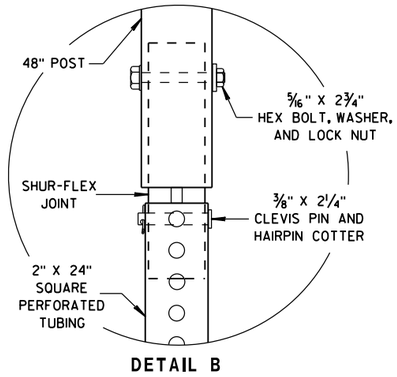
ALTERNATE 2



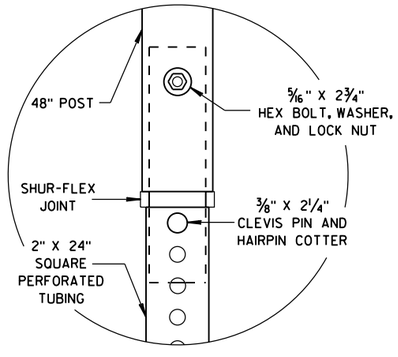
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

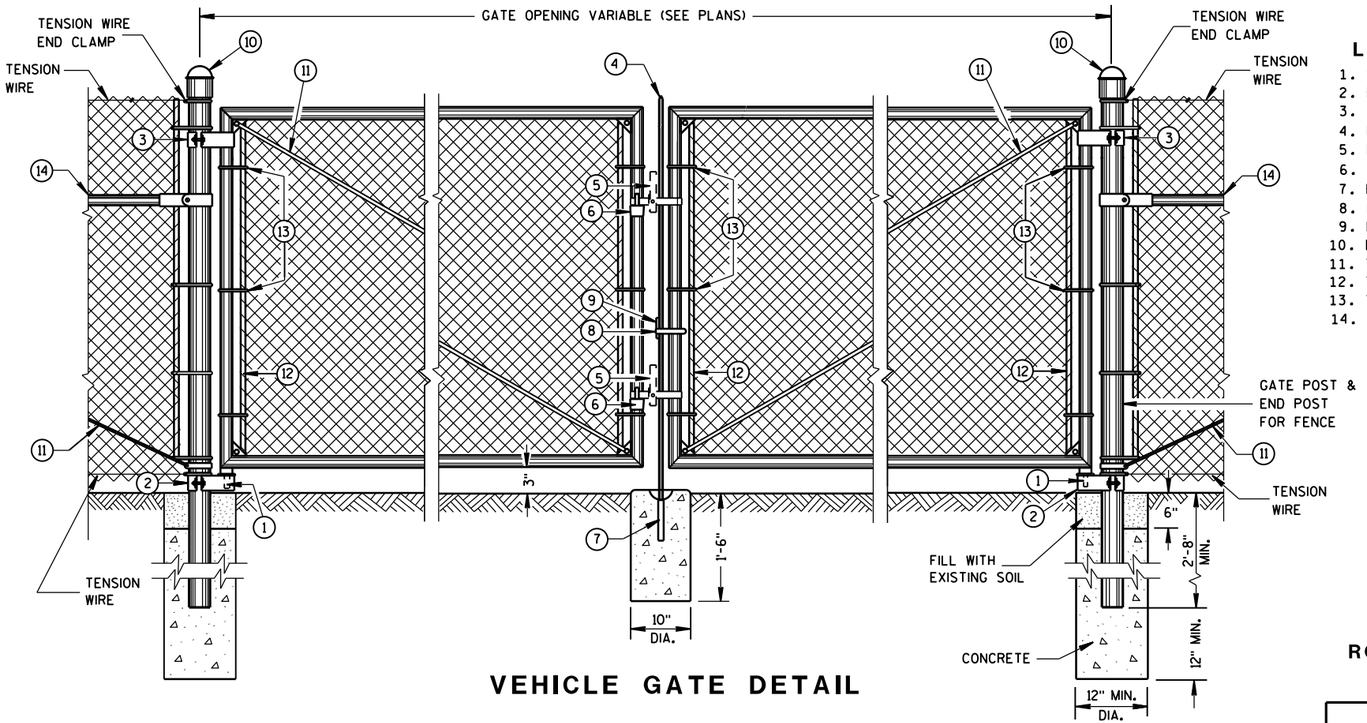
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
315
IGN
FHWA

6

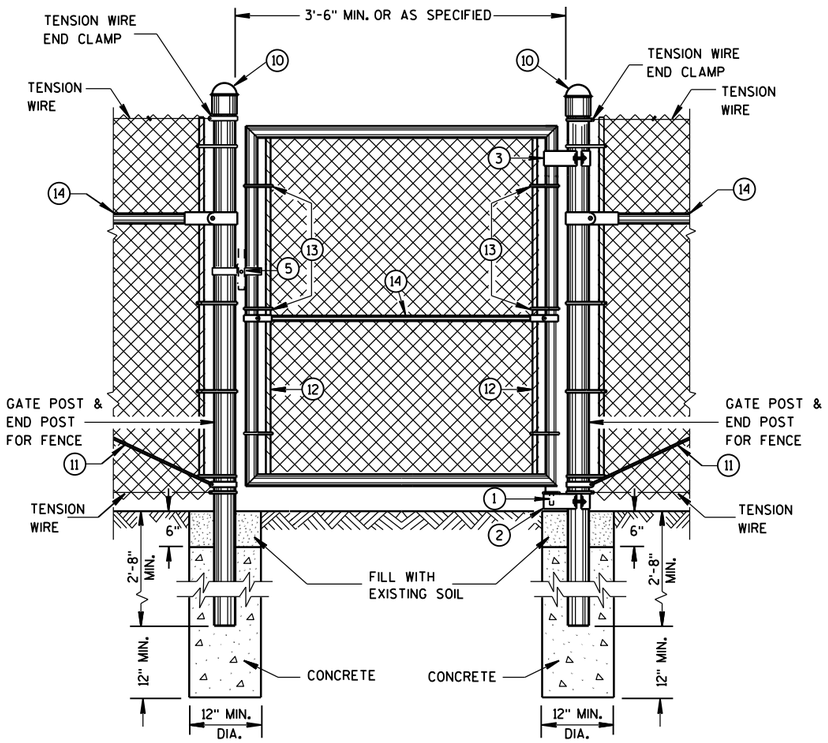
S.D.D. 15 A 3-2b

6

S.D.D. 15 A 3-2b



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

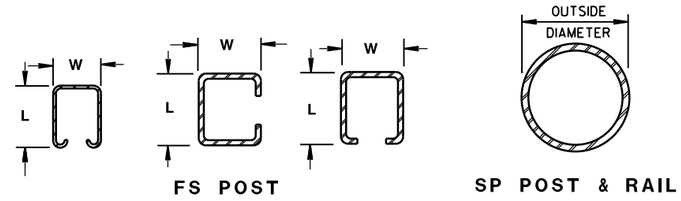
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



FS POST

SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

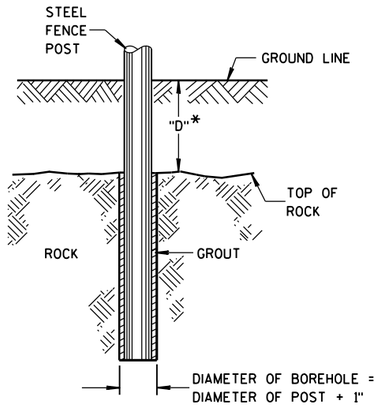
ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

FENCE CHAIN LINK

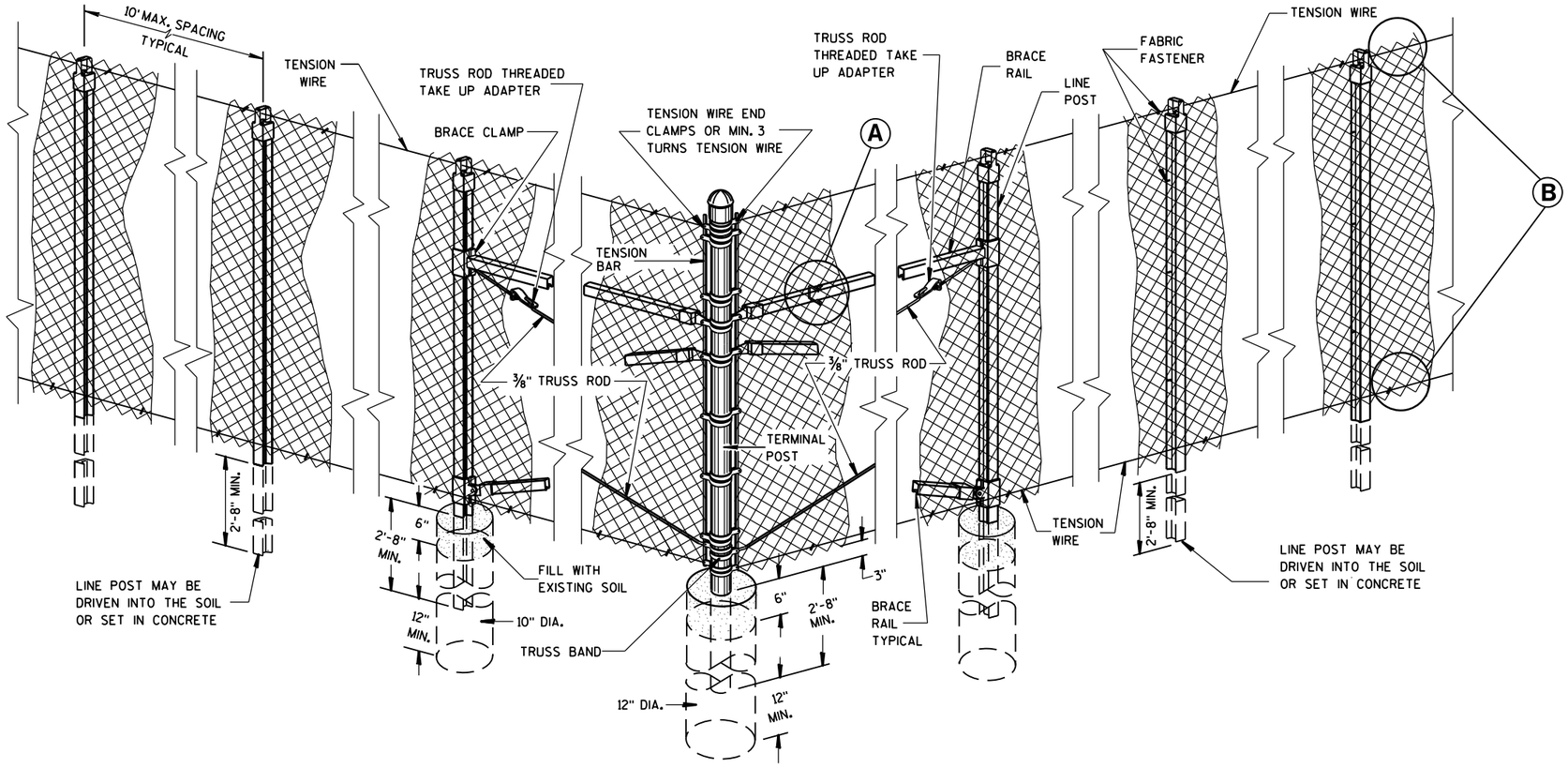
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 15 B 3-15a

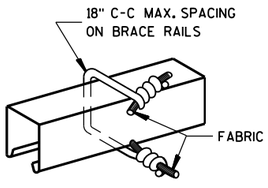


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



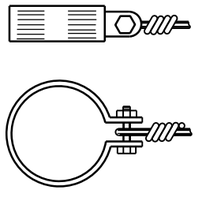
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



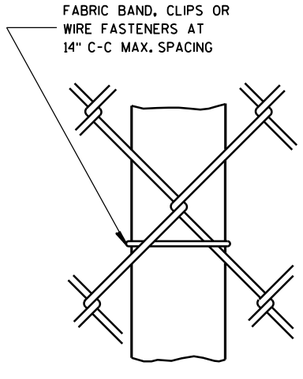
BRACE RAIL

FABRIC FASTENER

Ⓐ



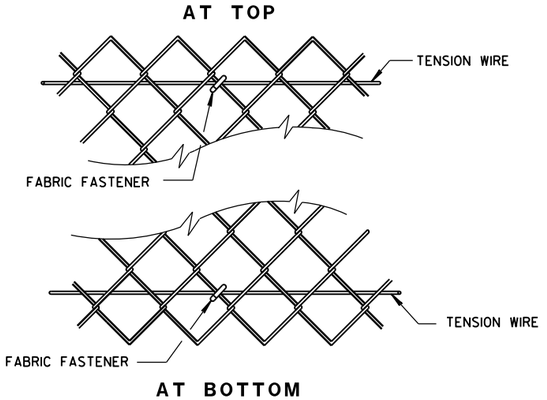
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

Ⓑ

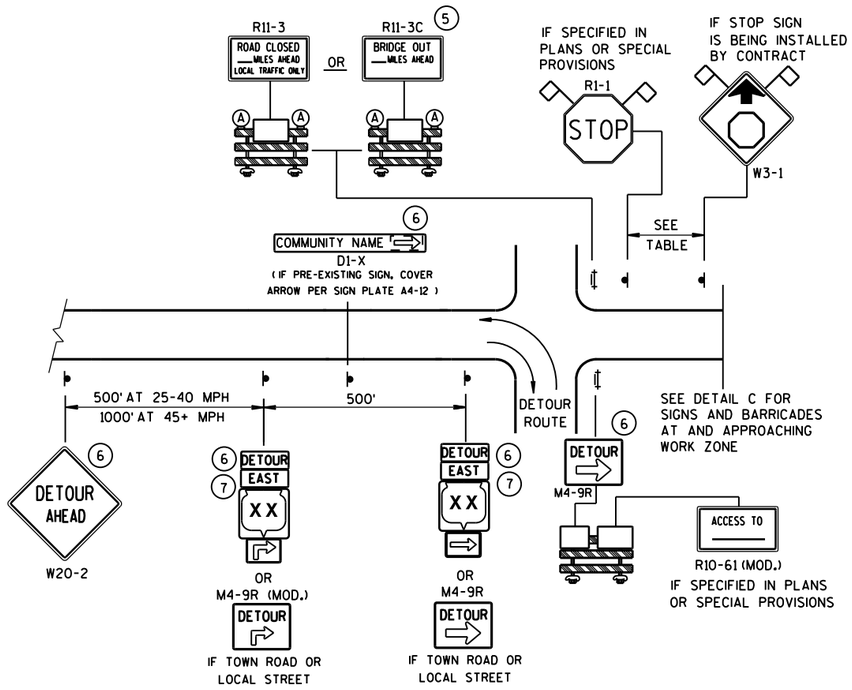
FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
FEB. 2015 DATE
FHWA
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

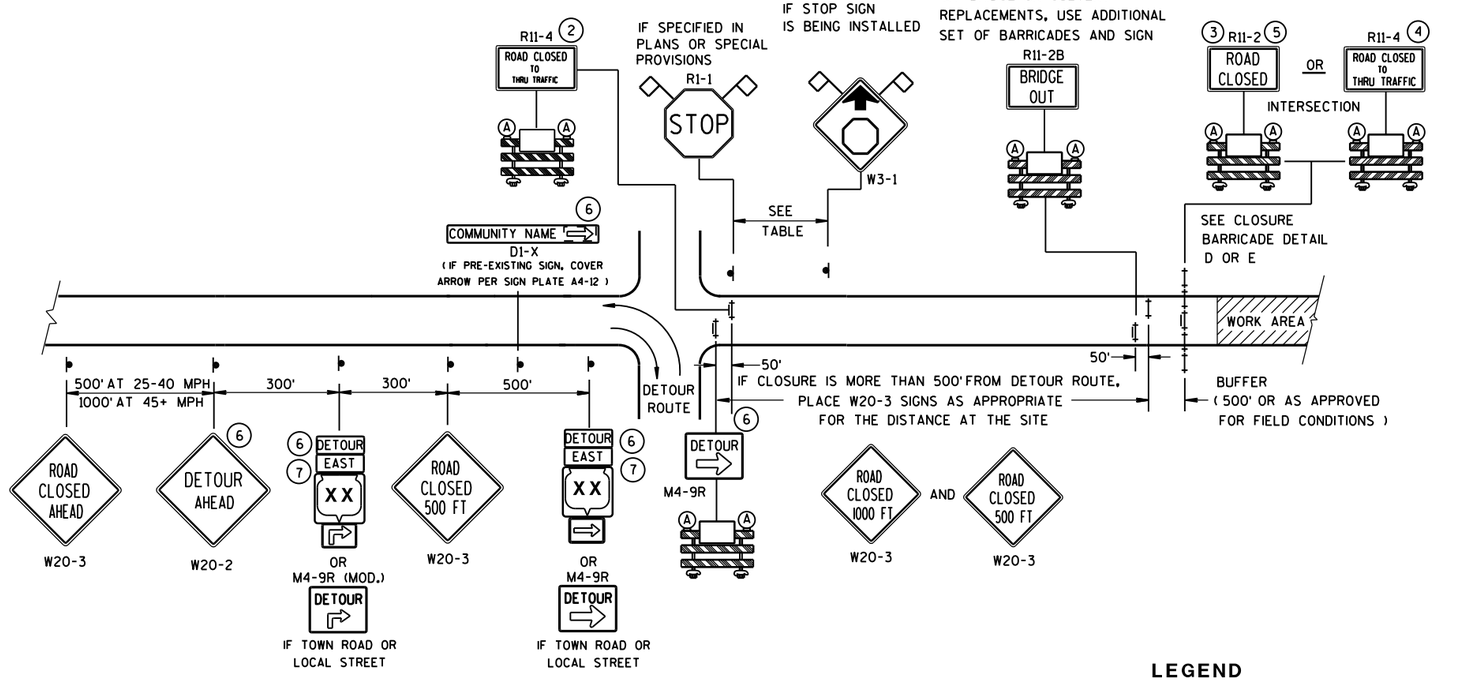
S.D.D. 15 B 3-15b



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

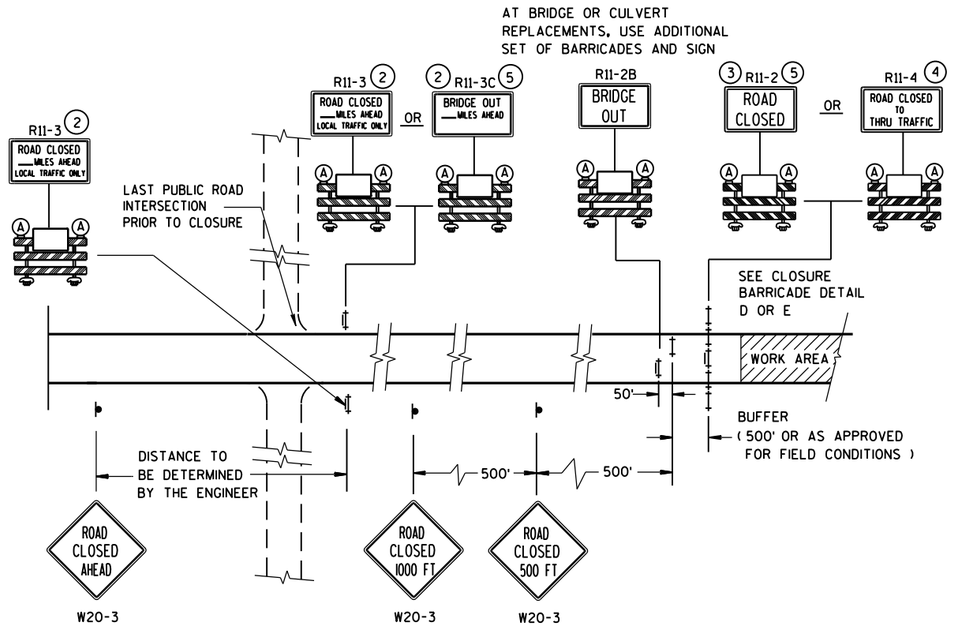
WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C

MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "**b**" FOR GENERAL NOTES AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

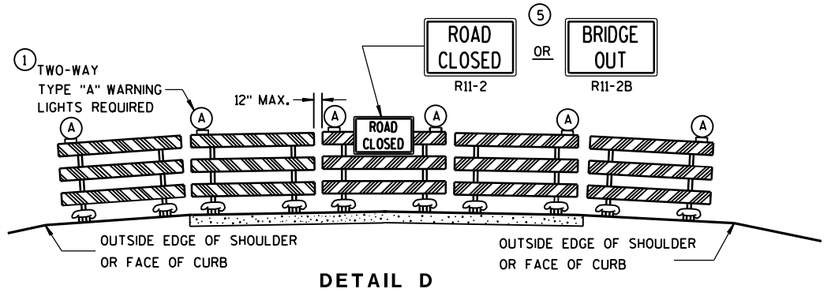
FHWA

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S.D.D. 15 C 2-5a

6

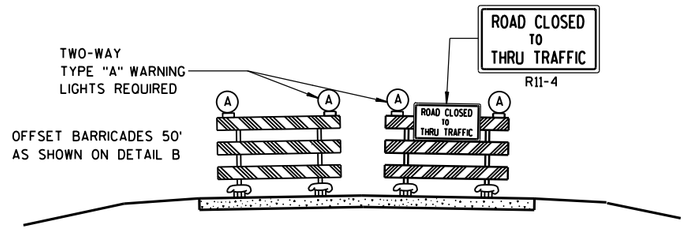
S.D.D. 15 C 2-5a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 2-5b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

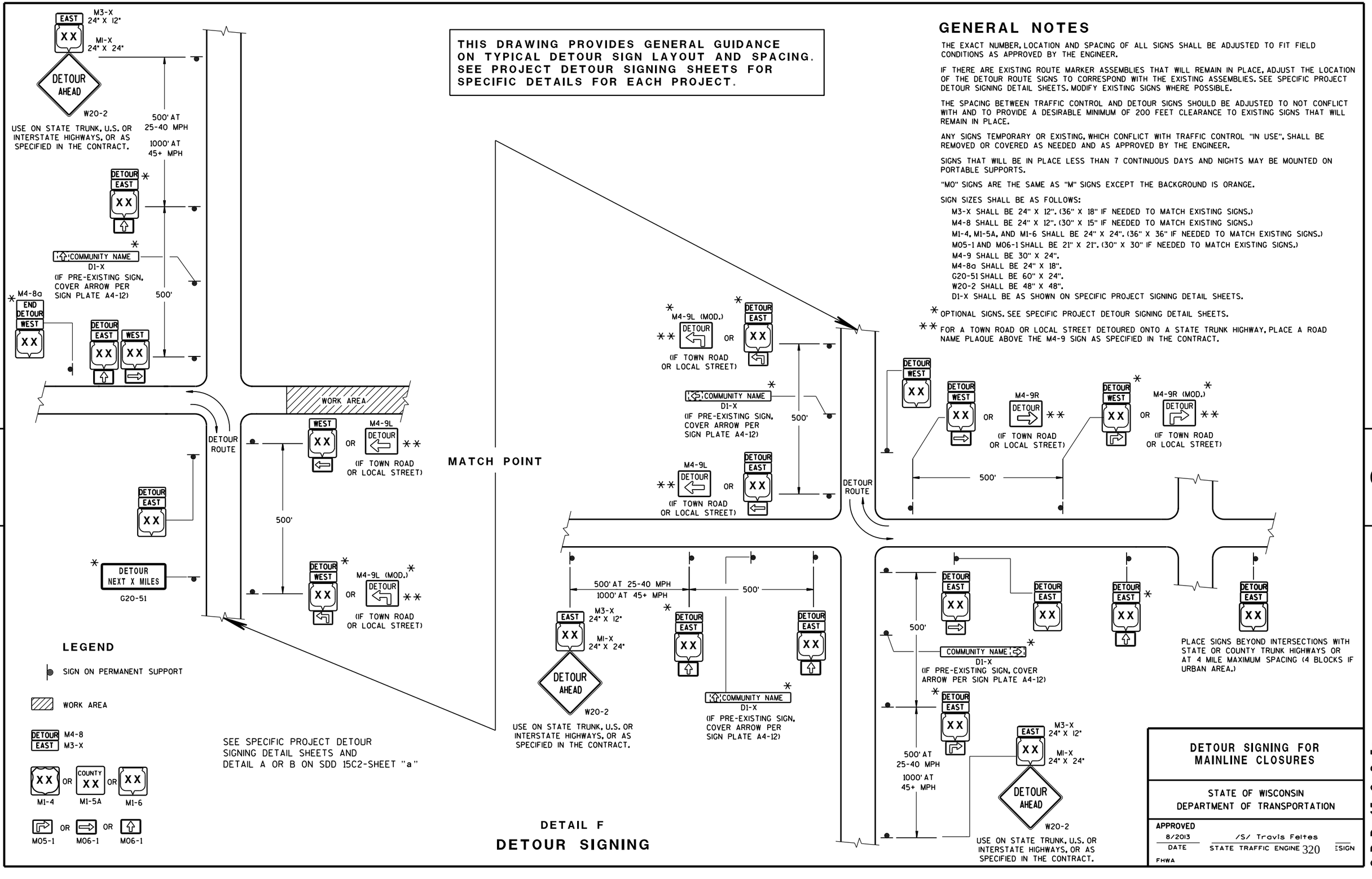
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



DETAIL F

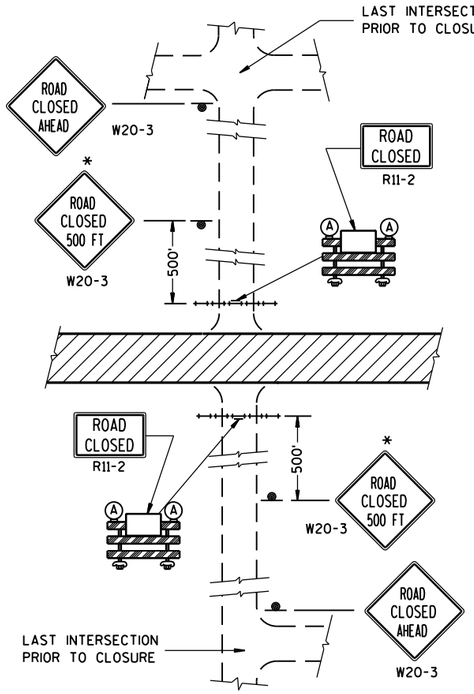
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

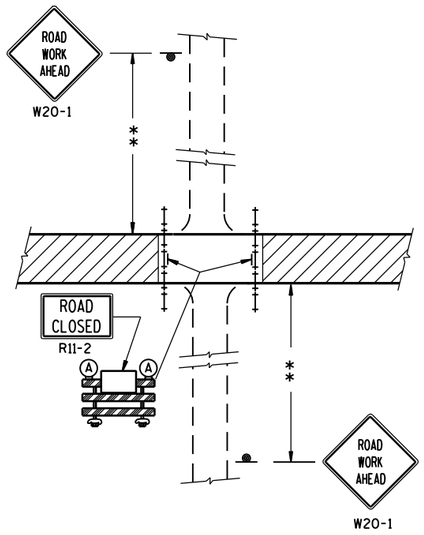
APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

S.D.D. 15 C 2-5c



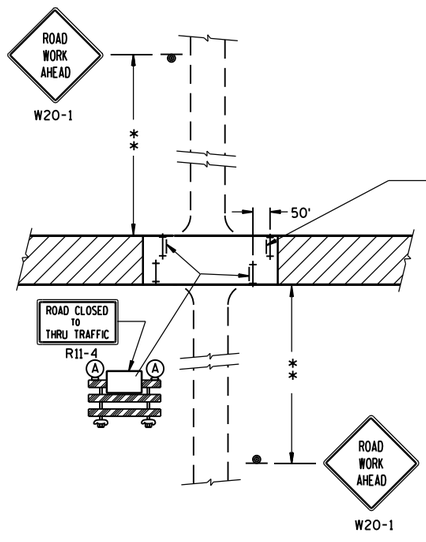
DETAIL 1

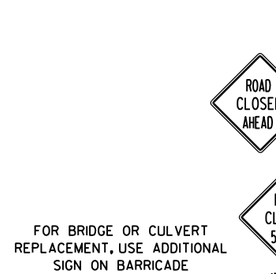
(NO ACCESS TO PROJECT)



DETAIL 2

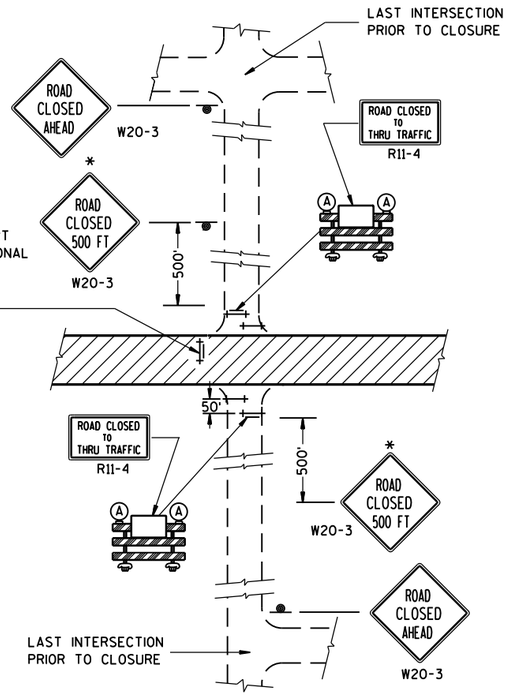
(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).





DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

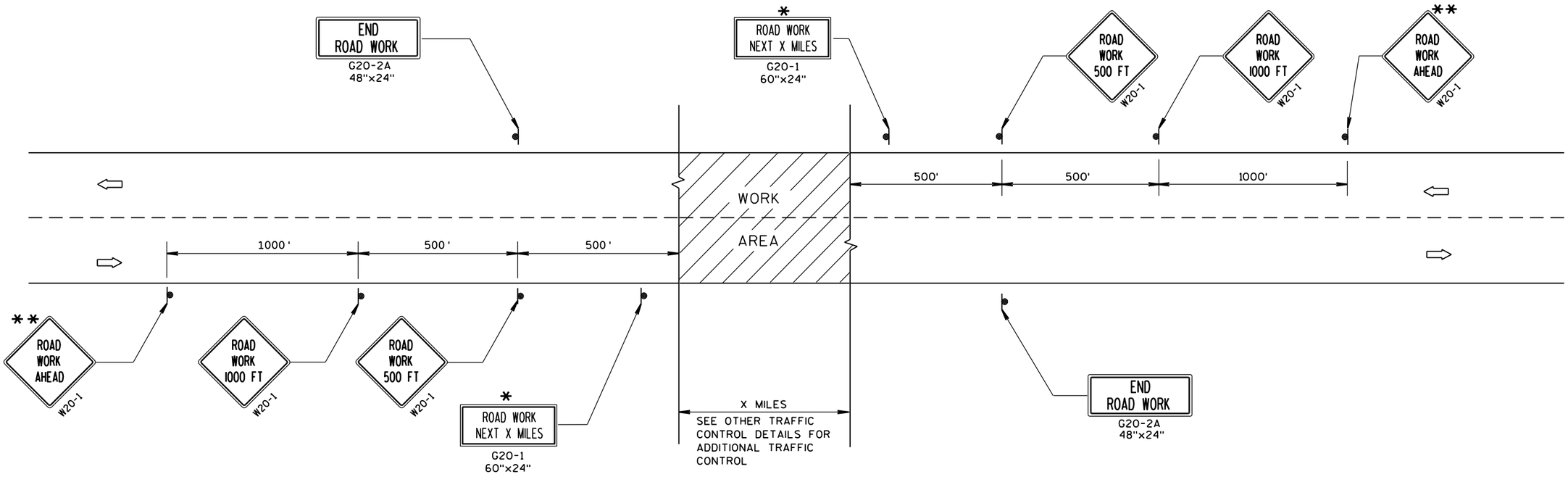
BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 3-2



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

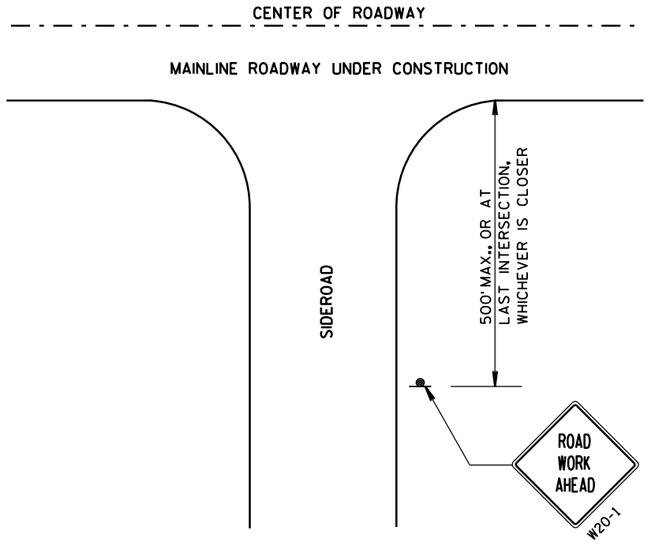
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

322

SIGN

FHWA

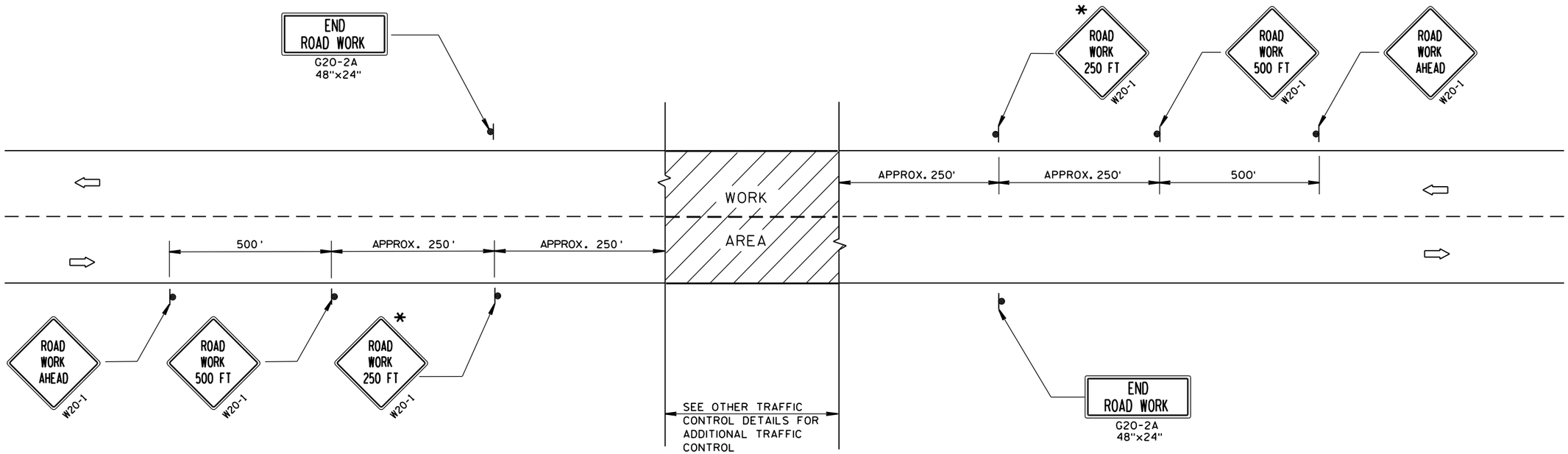
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S.D.D. 15 C 4-2

6

S.D.D. 15 C 4-2

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

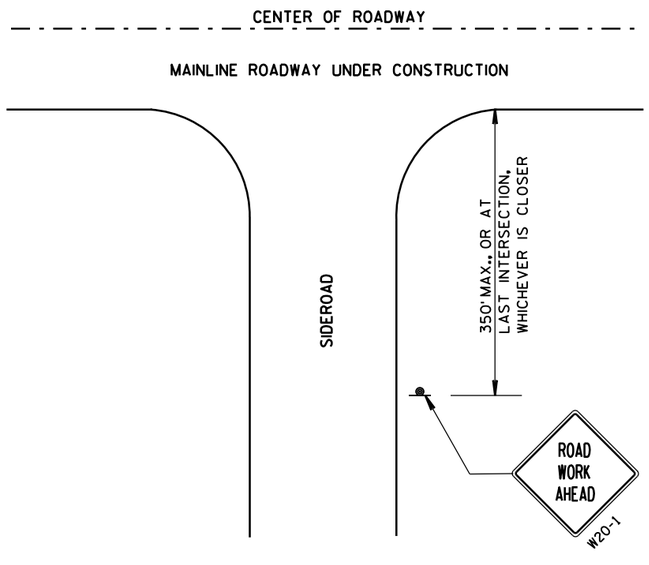
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

SIGN

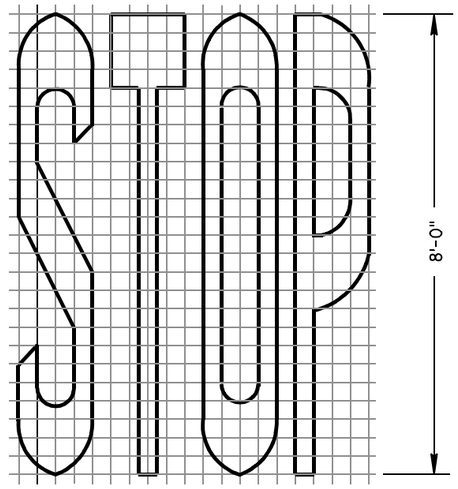
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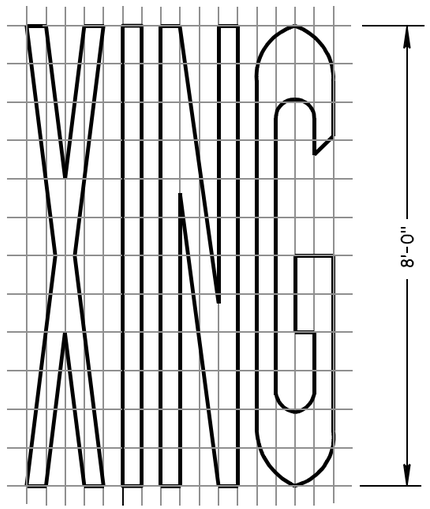
S.D.D. 15 C 5-2

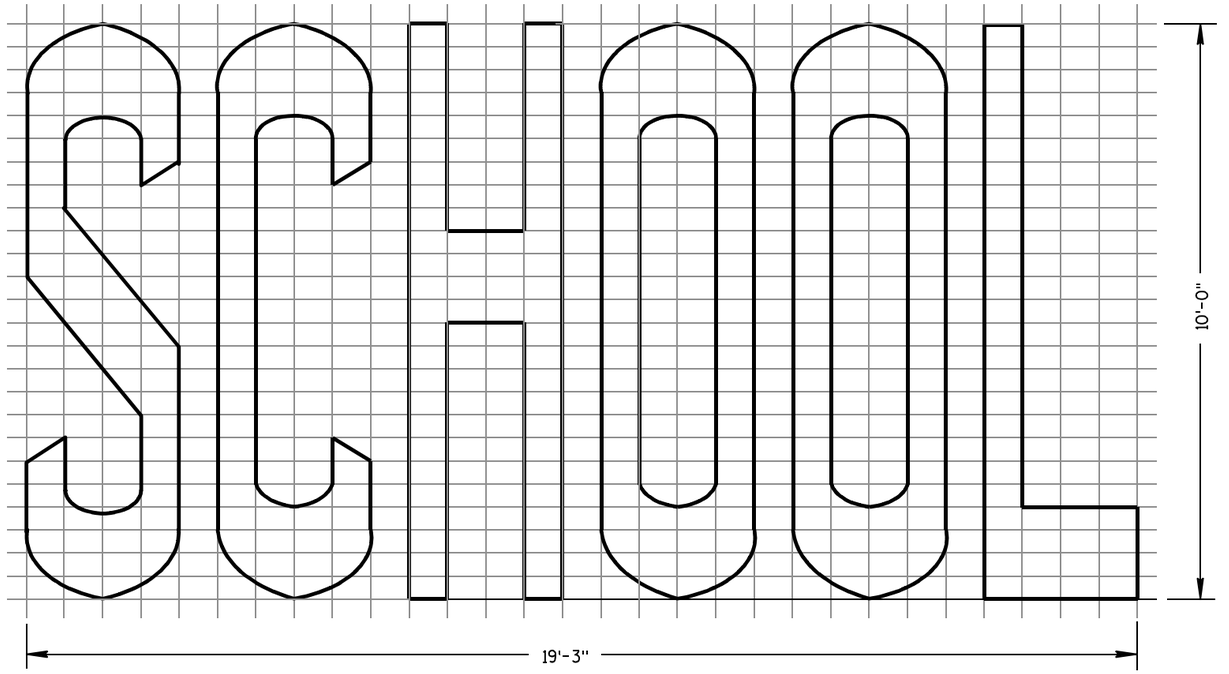
GENERAL NOTES

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

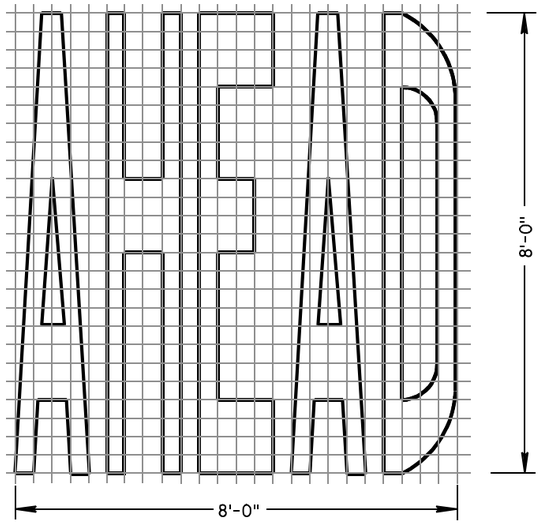
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

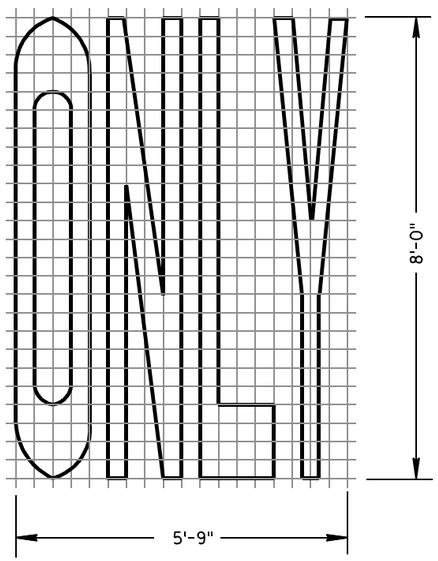


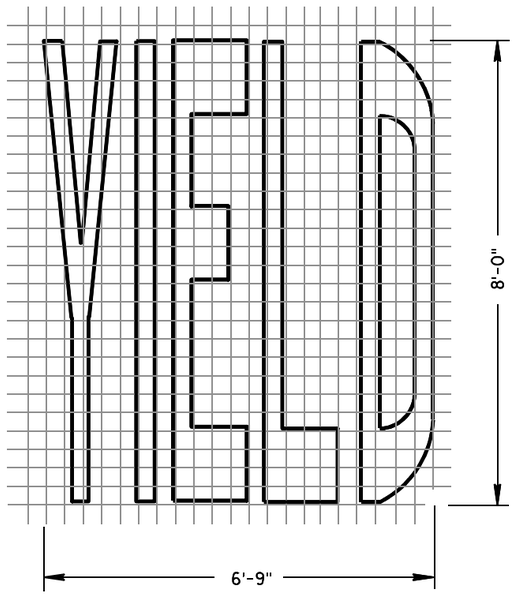


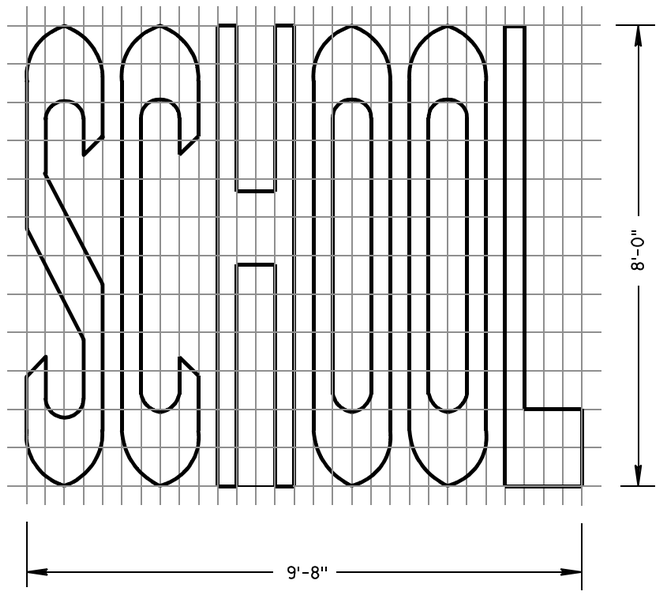


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER

FHWA

IGN

6

S.D.D. 15 C 7-12b

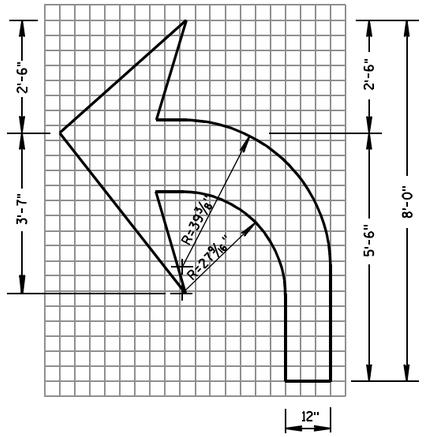
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S.D.D. 15 C 7-12b

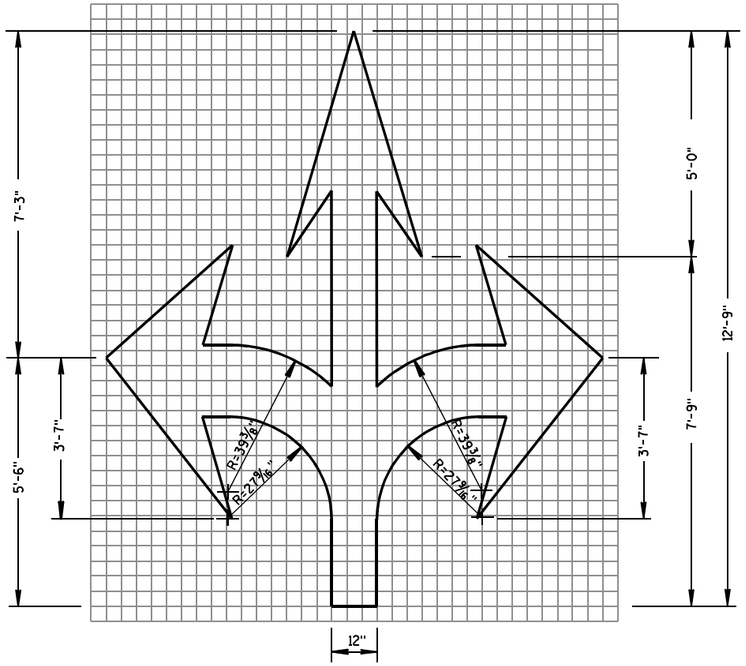
GENERAL NOTES

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

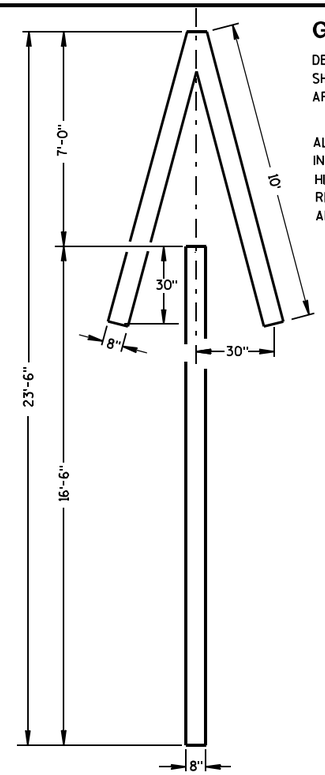
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



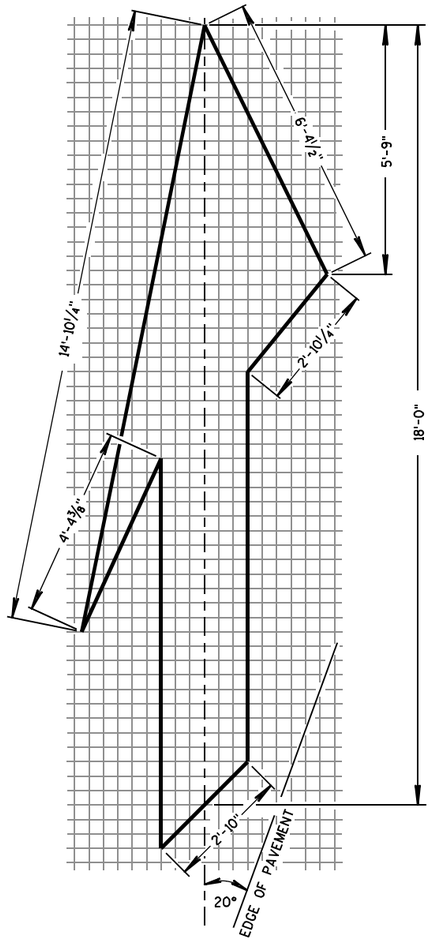
TYPE 2



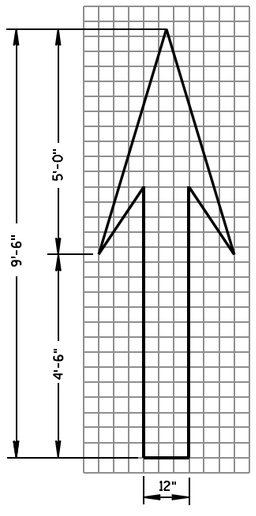
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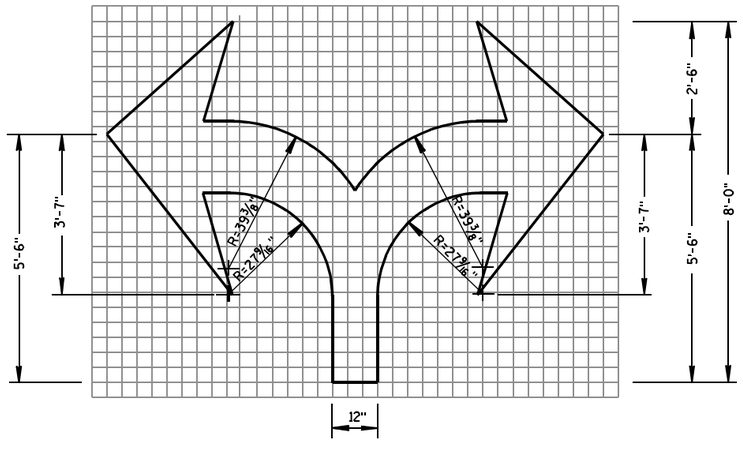
TYPE 4



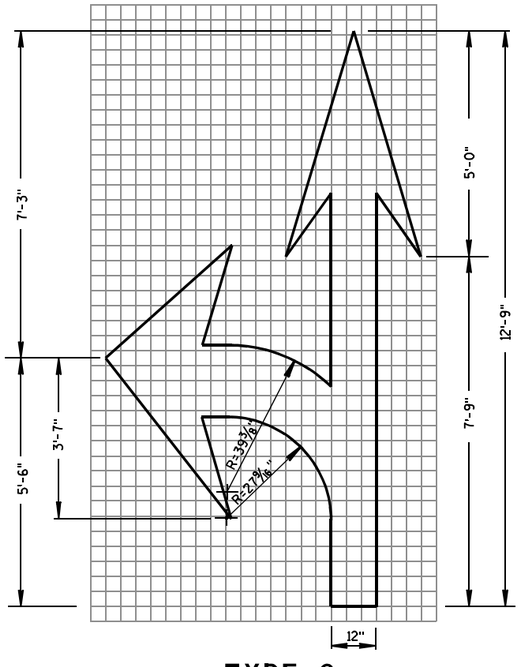
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 C 7-12c

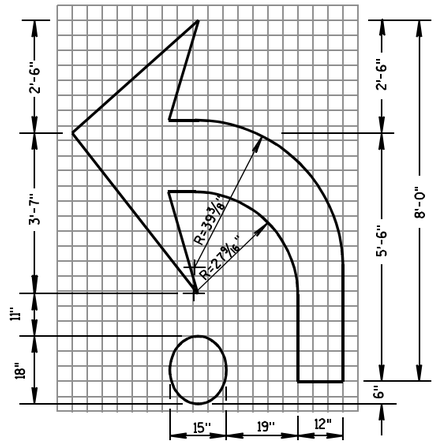
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S.D.D. 15 C 7-12c

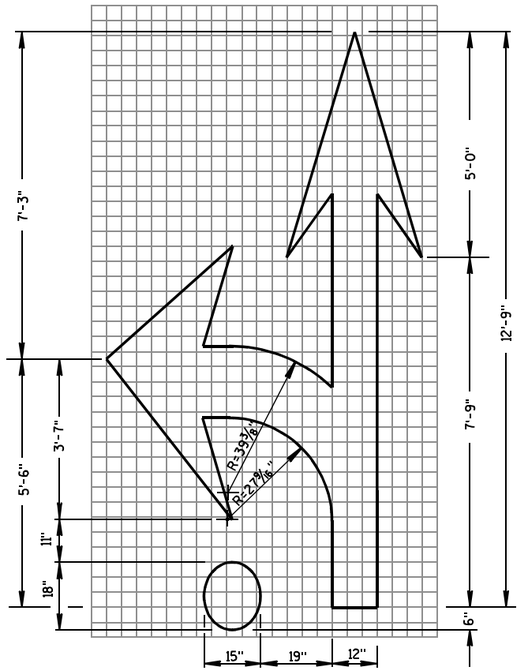
GENERAL NOTES

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

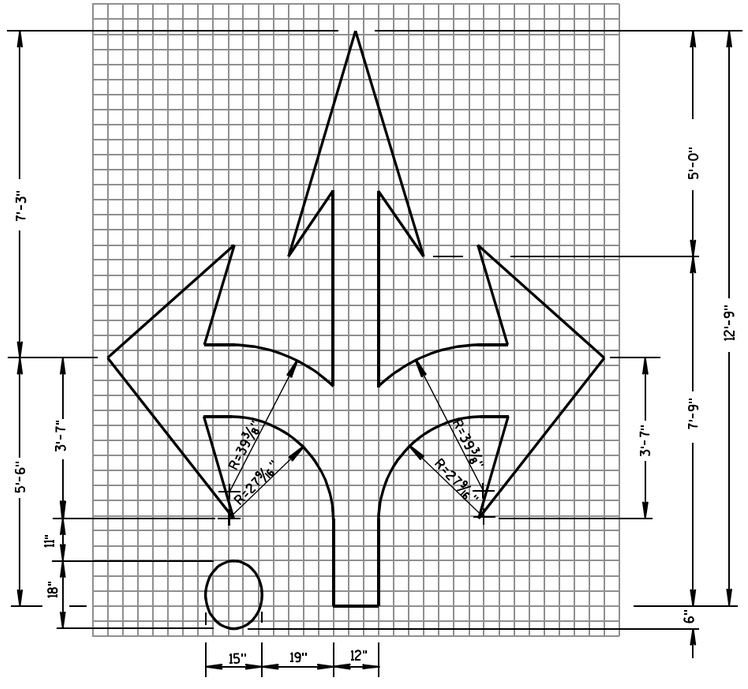
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



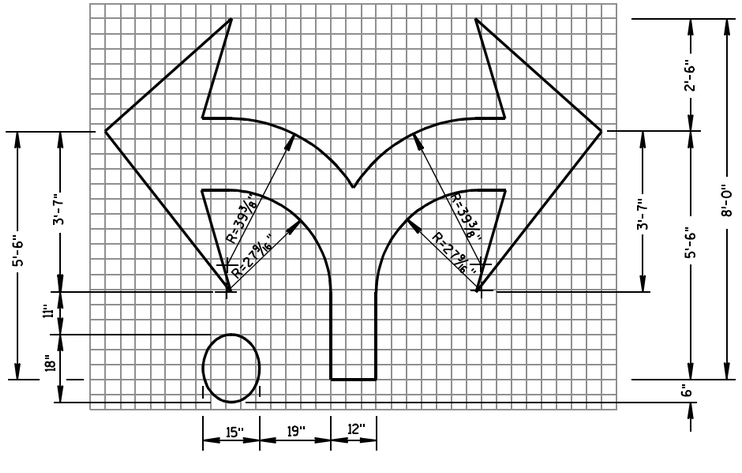
TYPE 2R



TYPE 3R

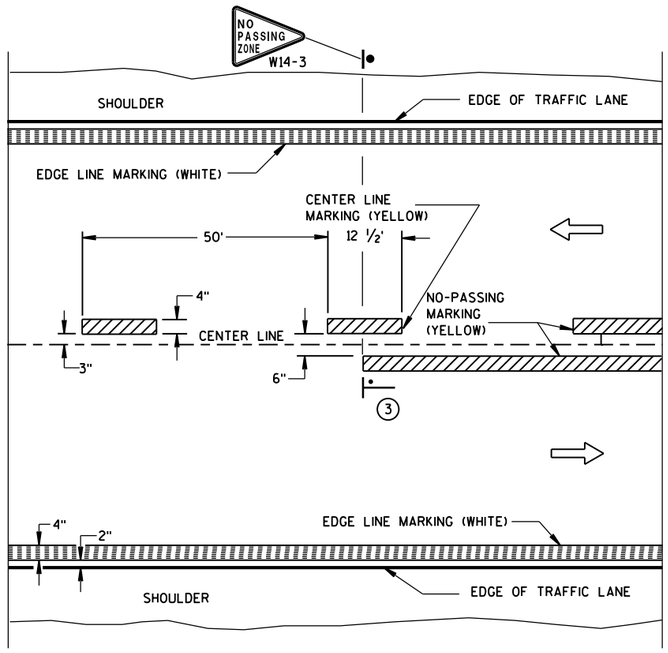


TYPE 6R

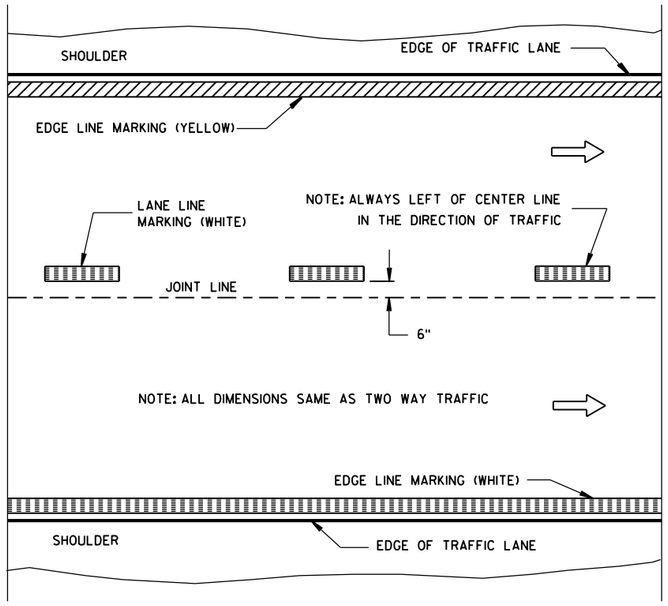


TYPE 7R

ROUNDABOUT ARROWS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
7/1/11 DATE	/S/ Thomas N. Nathaam STATE TRAFFIC ENGINE 326 SIGN
FHWA	

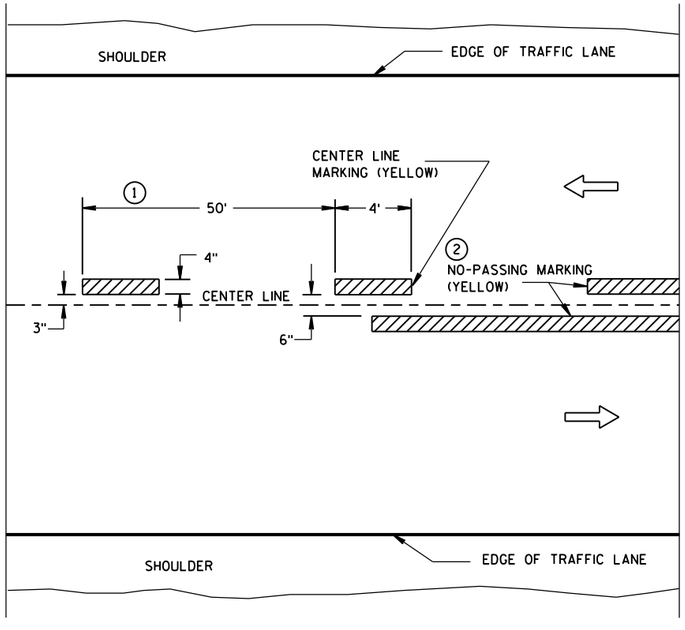


TWO WAY TRAFFIC

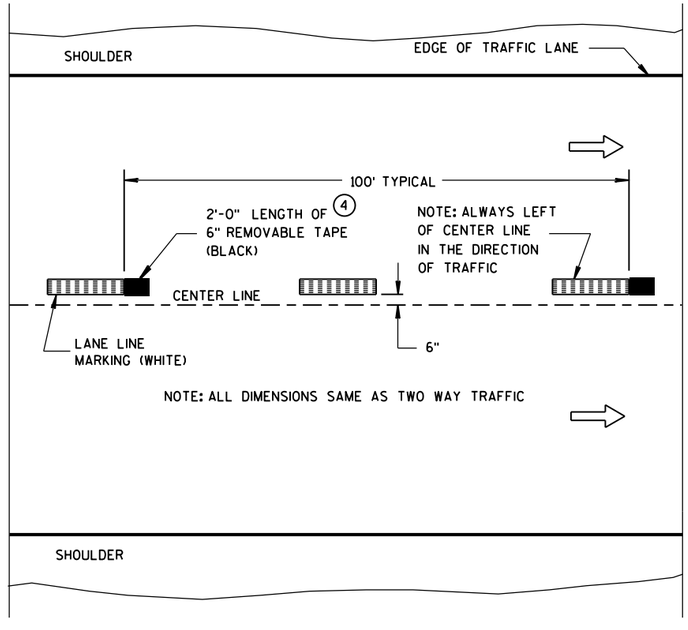


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

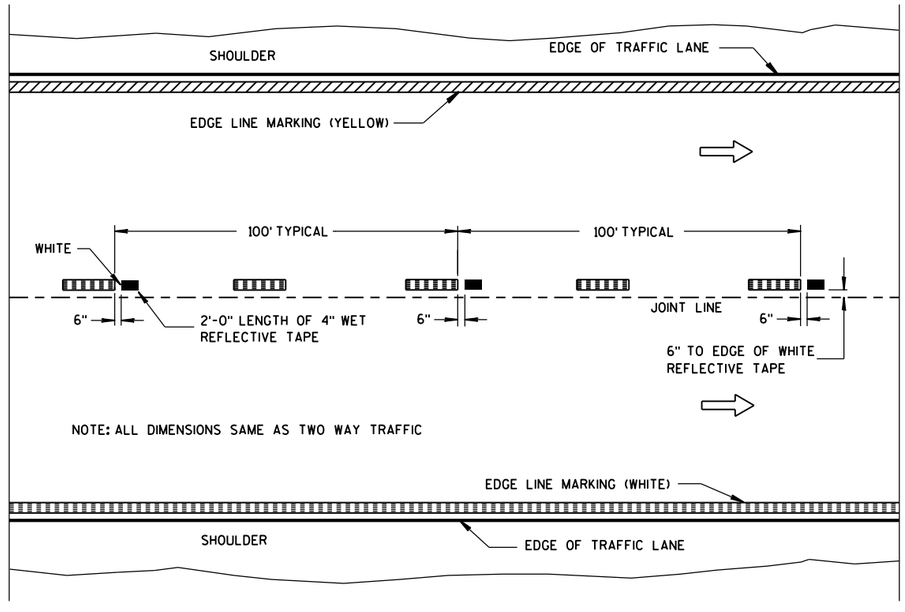
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

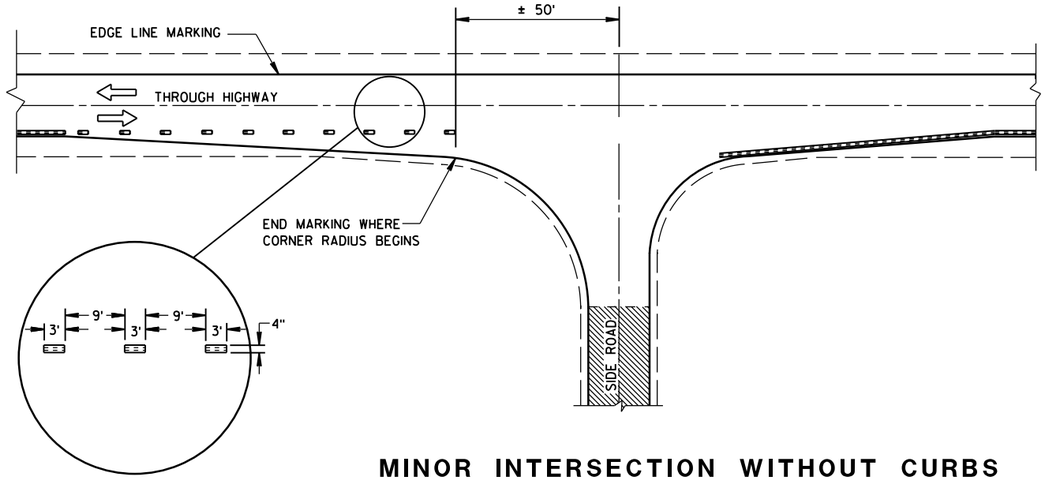
APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E
FHWA

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S.D.D. 15 C 8-16a

6

S.D.D. 15 C 8-16a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

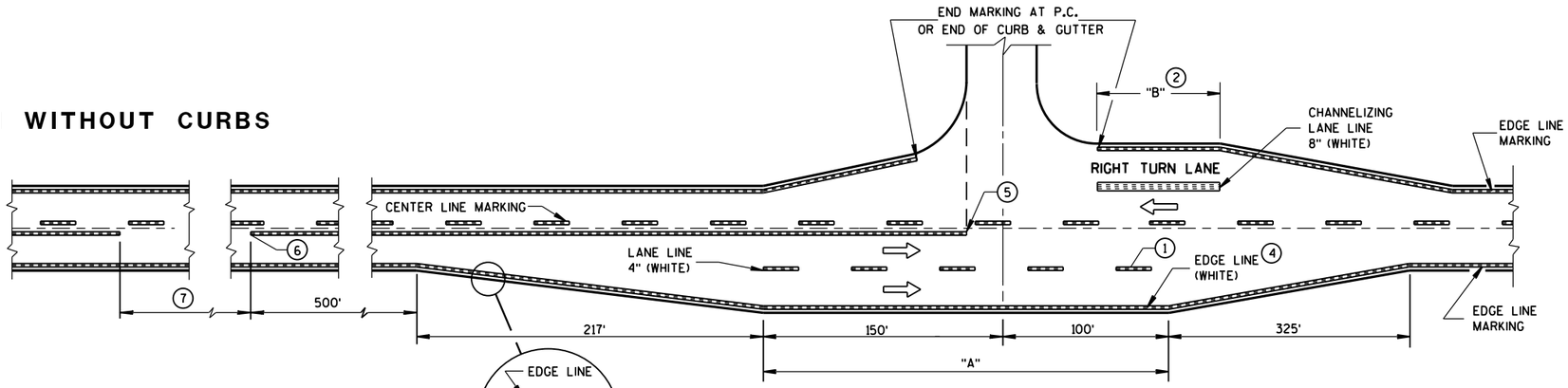
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

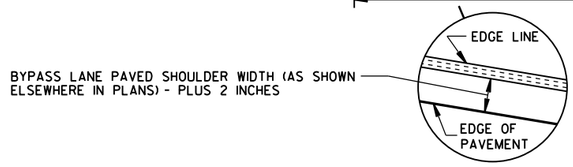
(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

(7)

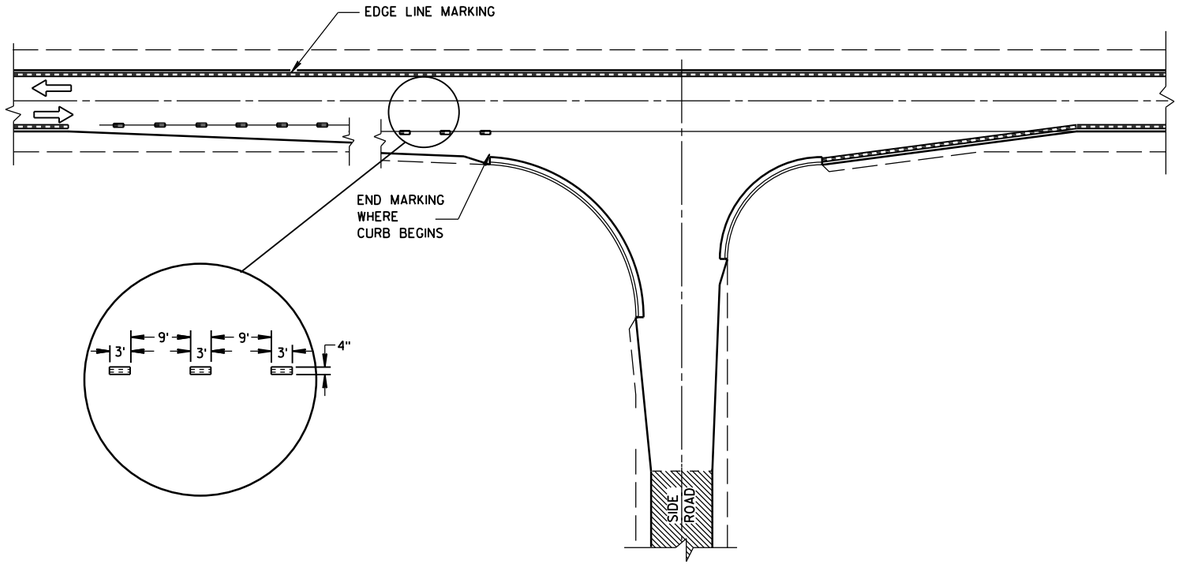
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792





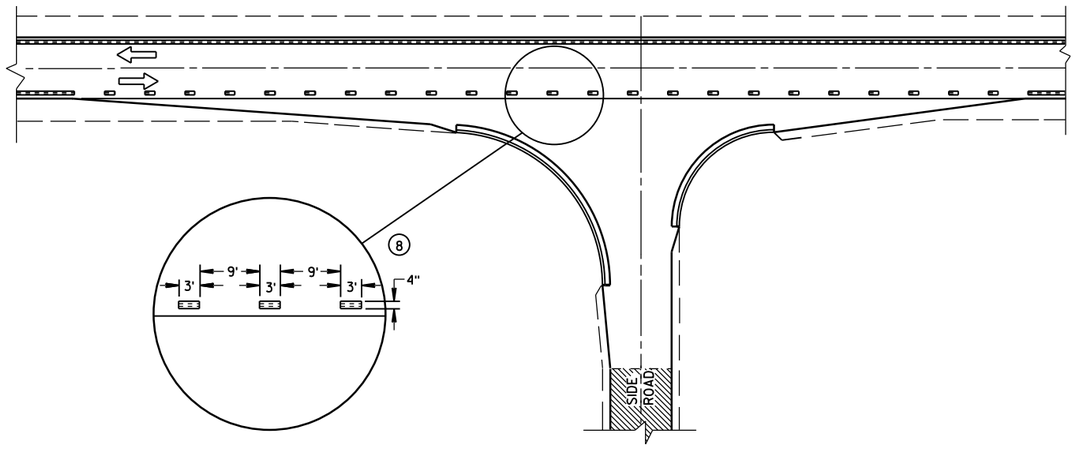
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

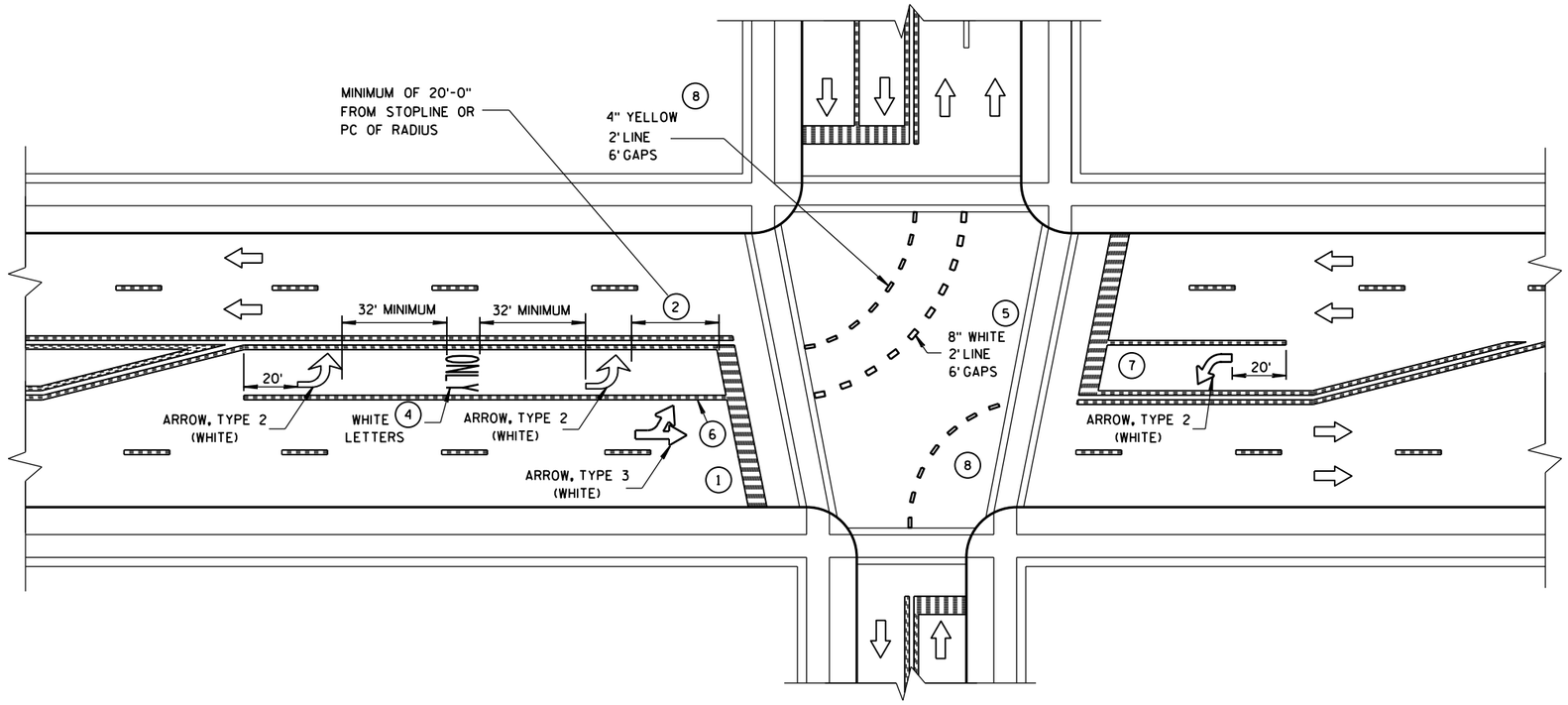
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 C 8-16b

6

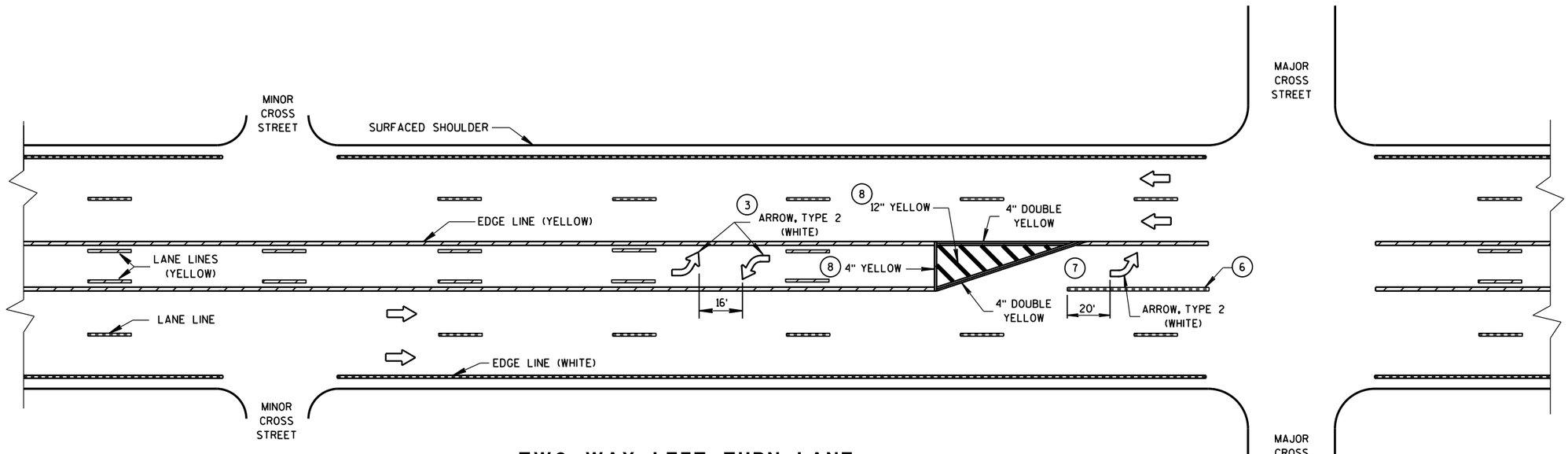
S.D.D. 15 C 8-16b



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

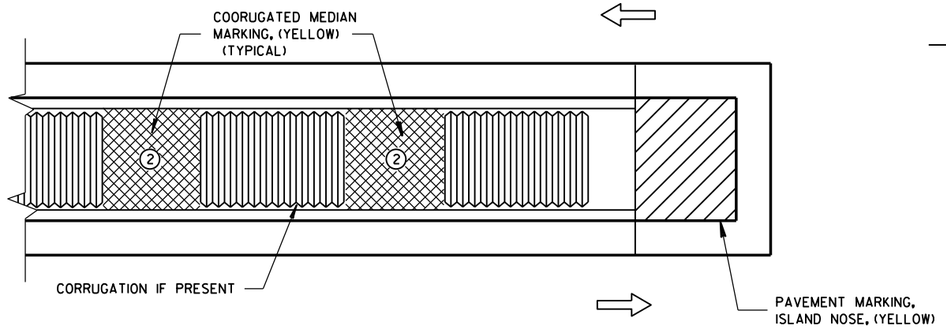
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

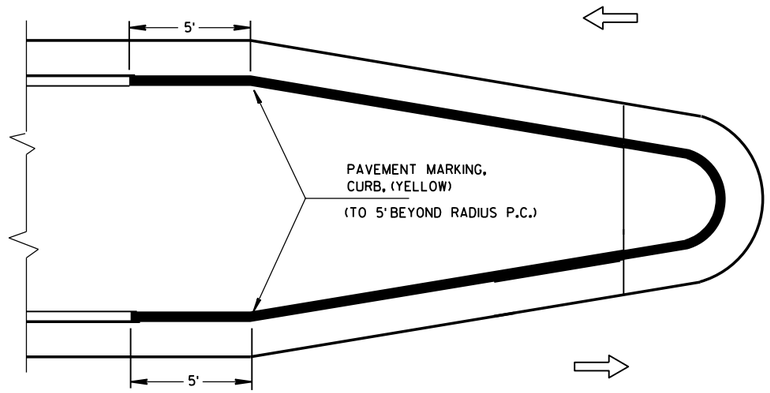
S.D.D. 15 C 8-16e

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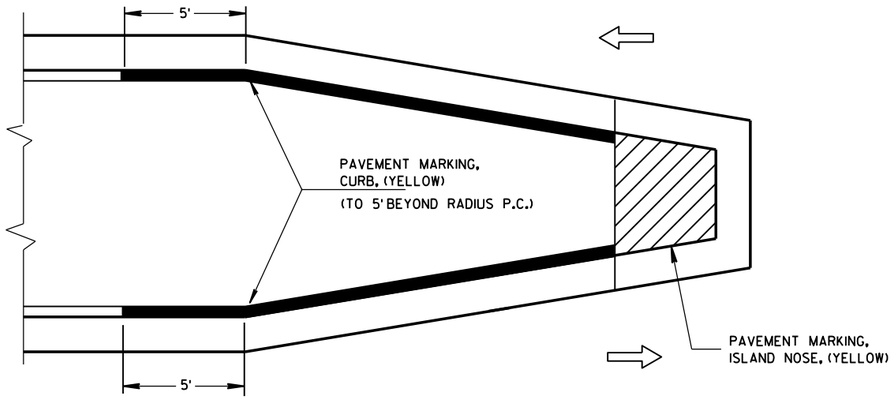
S.D.D. 15 C 8-16e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

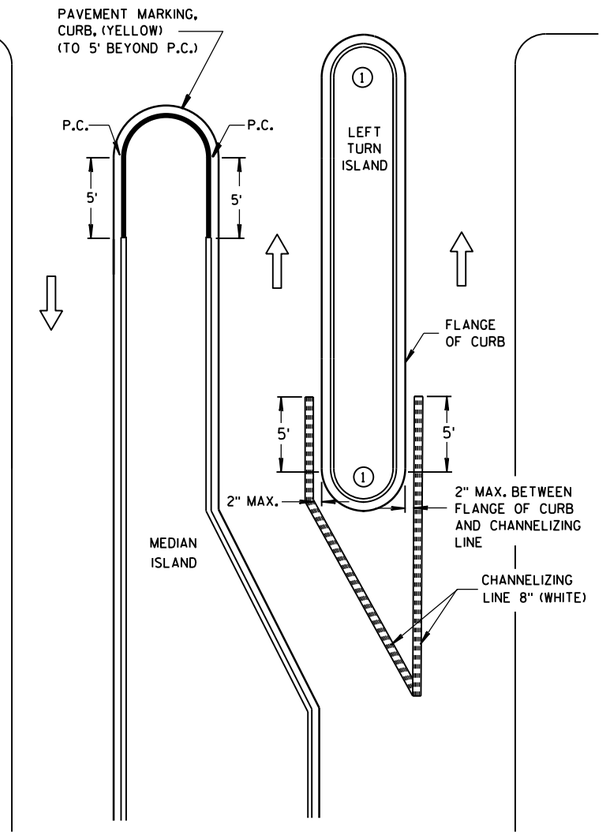


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

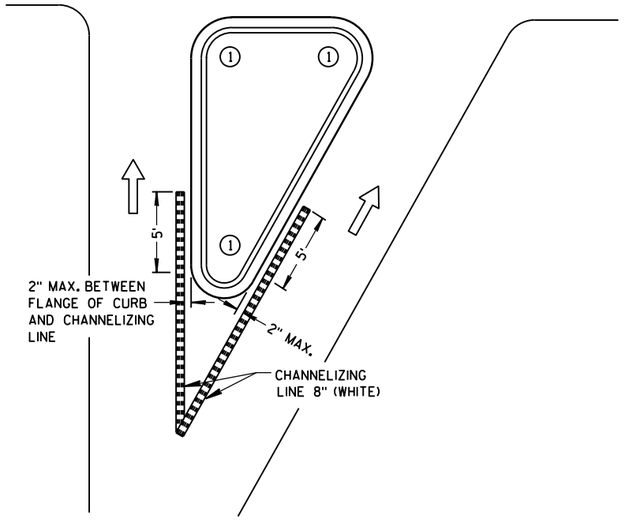


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

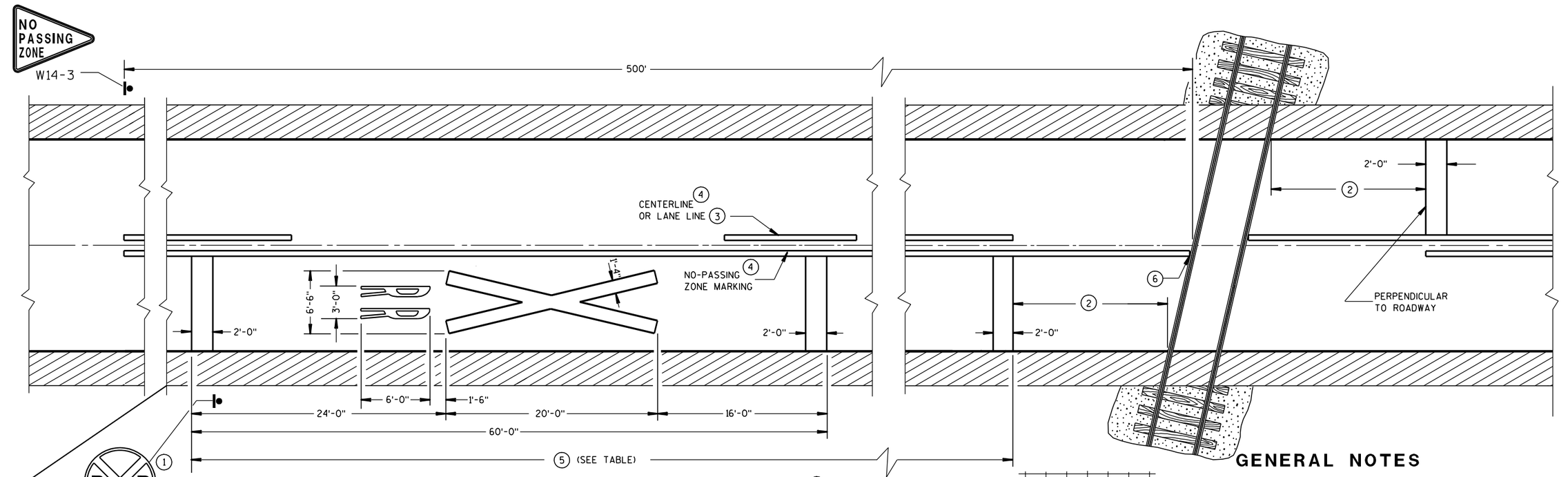
- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

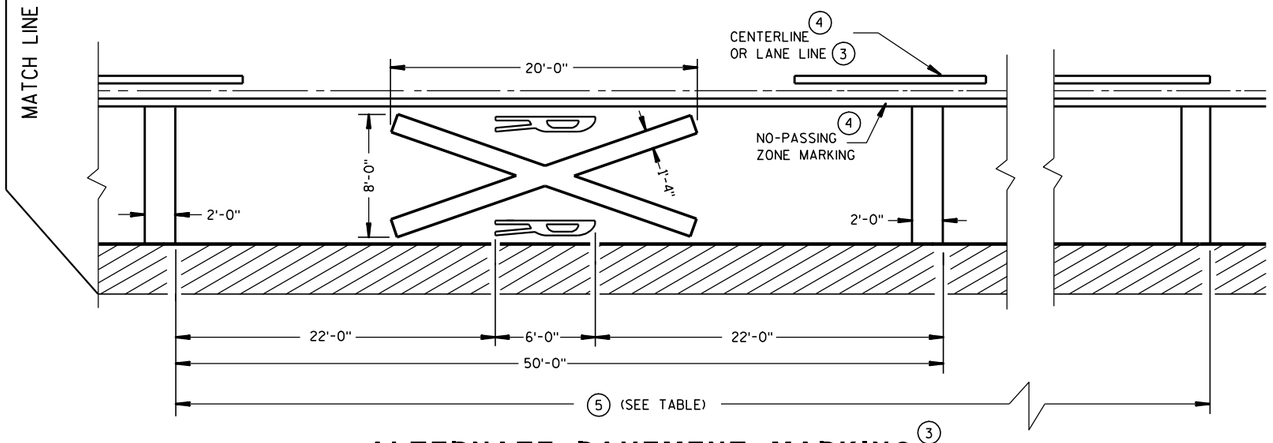
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 C 8-16f



PREFERRED PAVEMENT MARKING (3)

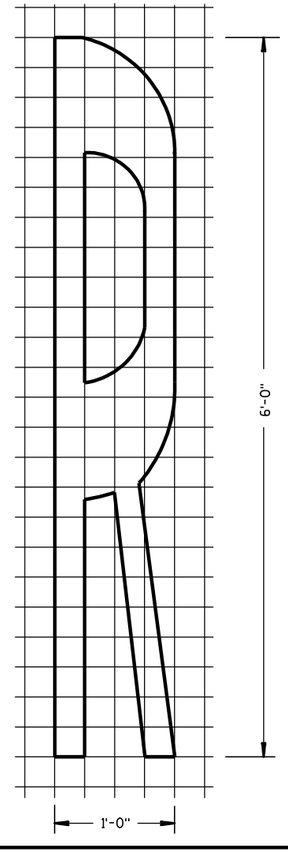


ALTERNATE PAVEMENT MARKING (3)

(5)

Posted Speed (M.P.H.)	Dimension Range (Feet)
25	150*- 250
30	200*- 300
35	250*- 450
40	300*- 500
45	400*- 650
50	550*- 800
55	750*- 1000
60	1000*- 1250
65	1000*- 1250

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSE PROXIMITY OF DRIVEWAYS, BRIDGES, SIDEROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.



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.

A THREE-LANE ROADWAY SHOULD BE MARKED WITH A CENTERLINE FOR TWO-LANE APPROACH OPERATION ON THE APPROACH TO A CROSSING.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE. ALL LETTERS AND SYMBOLS SHALL BE IN CONFORMANCE WITH THE "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" (ADOPTED BY THE FEDERAL HIGHWAY ADMINISTRATION).

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

(1) A PORTION OF THE PAVEMENT MARKING SYMBOL SHOULD BE DIRECTLY OPPOSITE THE ADVANCE WARNING SIGN (W10-1).

(2) MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNALS, GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.

(3) REFLECTIVE WHITE.

(4) REFLECTIVE YELLOW 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.

(5) TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

(6) FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

1-9-2012
DATE

/S/ Thomas N. [illegible]
STATE TRAFFIC ENGINEER

FHWA

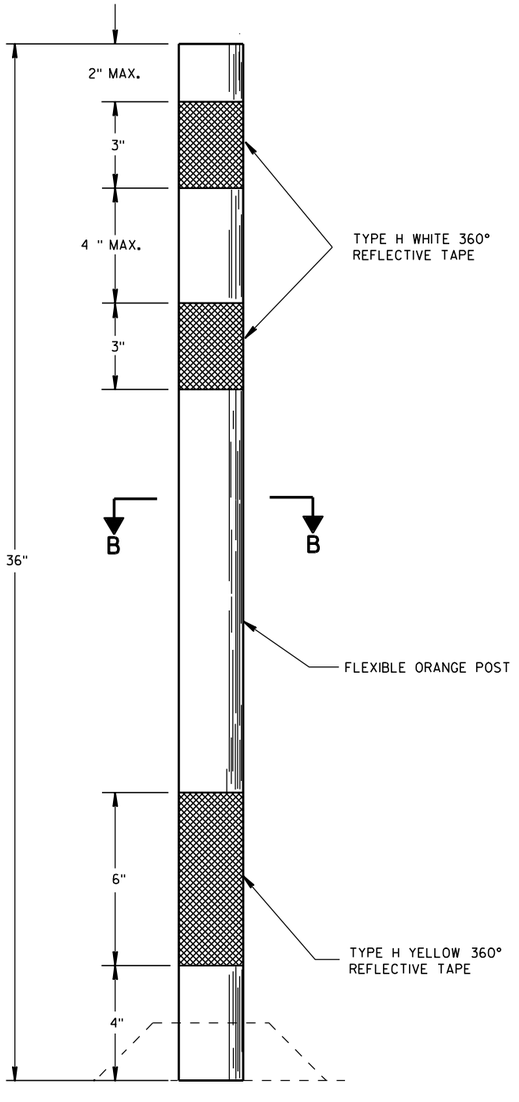
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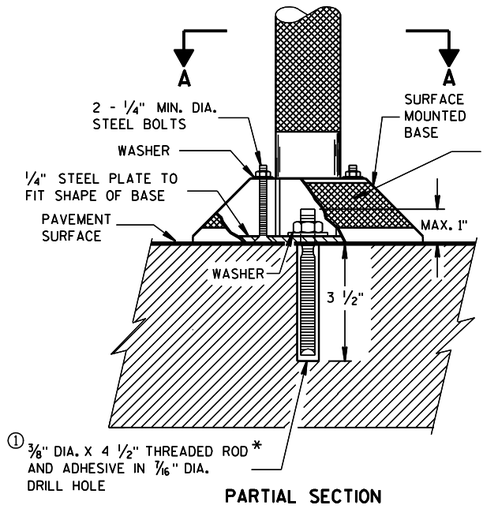
S.D.D. 15 C 9-9a

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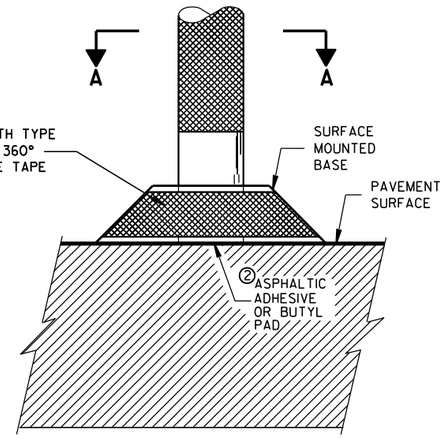
S.D.D. 15 C 9-9a



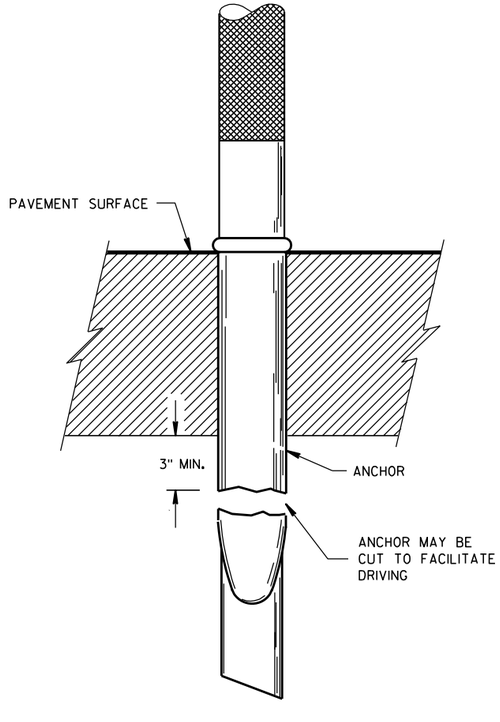
FLEXIBLE TUBULAR MARKER POST

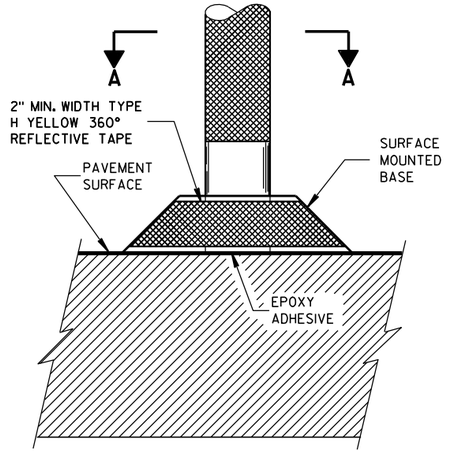


PARTIAL SECTION TO SHOW BOLTS



POST BASES ON NEW OR EXISTING PAVEMENT





POST ANCHOR AND BASE ON PAVEMENT WHICH WILL BE REMOVED

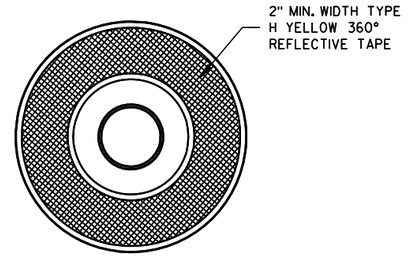
GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

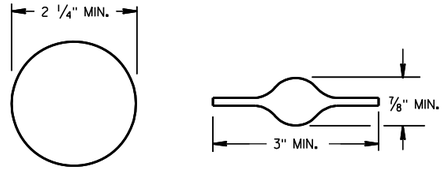
① THREADED ROD SHALL BE MACHINED DOWN TO 0.280 INCH DIA. 1 1/4 INCHES FROM THE TOP.

② THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.



SECTION A-A

SURFACE MOUNTED BASE



SECTION B-B

ALTERNATIVE SHAPES

FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2/17/94 DATE

/S/ Chester J. [illegible] DIRECTOR, OFFICE O

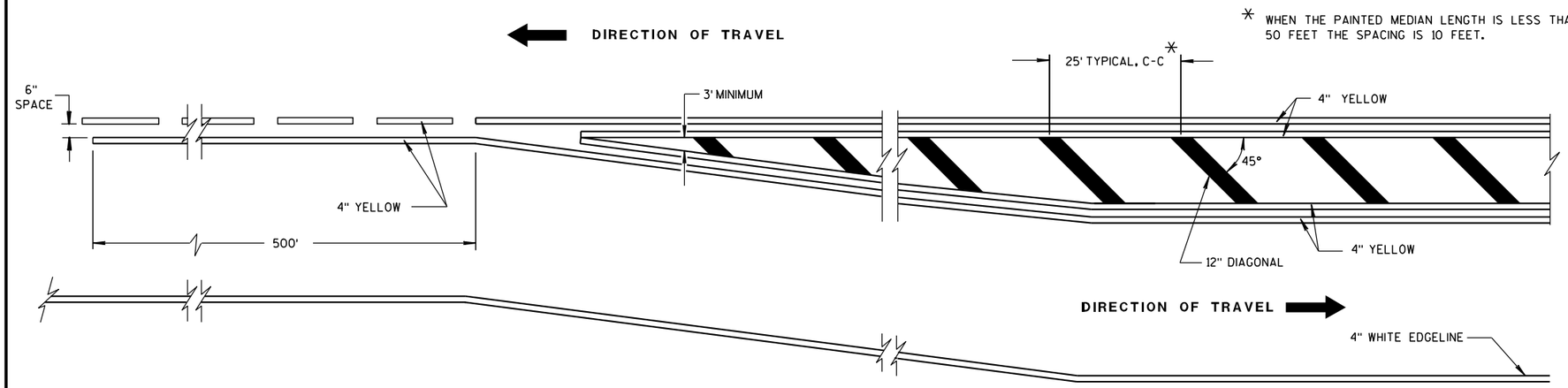
FHWA

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S.D.D. 15 C 11-5

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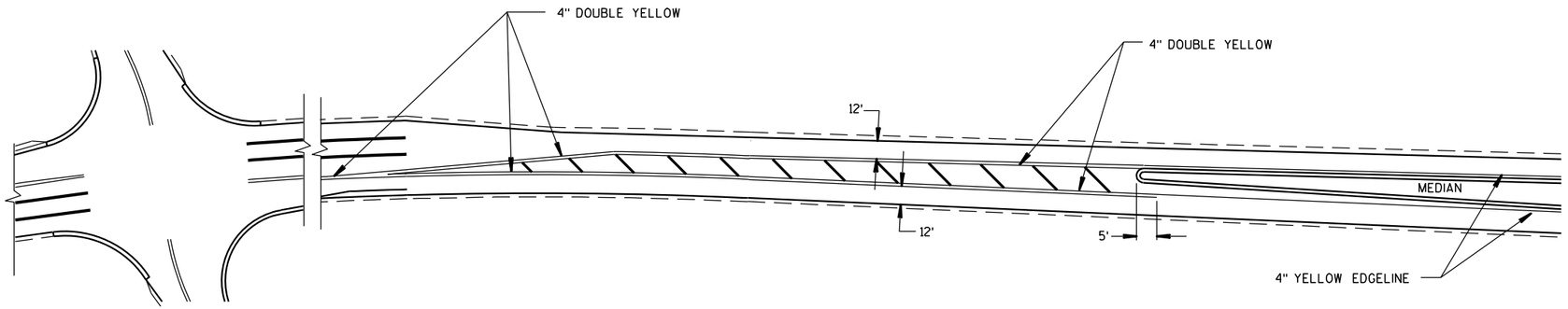
S.D.D. 15 C 11-5



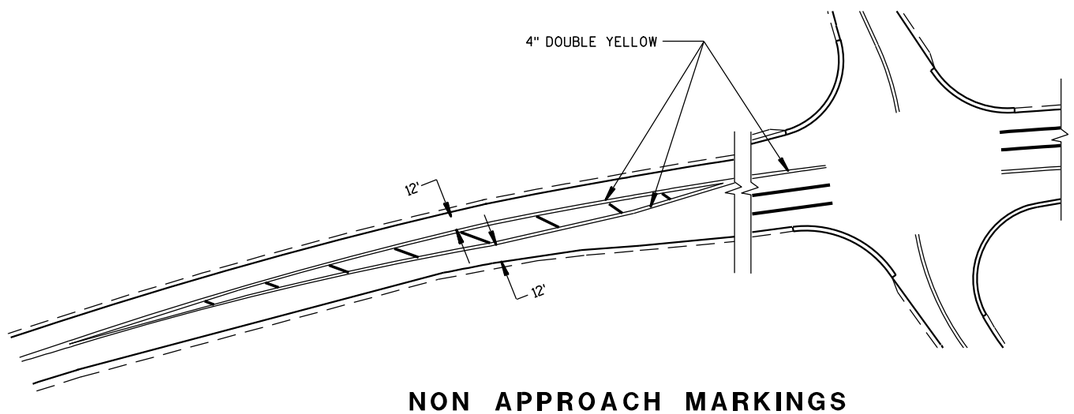
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER 333 IGN
FHWA	

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S.D.D. 15 C 18-3

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S.D.D. 15 C 18-3

GENERAL NOTES

ORIENT ANCHOR BOLTS IN FOOTING AND PROVIDE ANCHOR BOLT STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER FABRICATION DRAWING.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

SIGN SUPPORTS SHALL BE LOCATED NORMAL TO ROADWAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR BOLTS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR CAGE TO BE ASSEMBLED USING TIE WIRES ONLY, NO WELDING.

BASES (SHAFT) 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 BACK FILLING AROUND THE BASE. ANY REQUIRED BACKFILL SHALL BE WELL COMPACTED IN LAYERS OF 1 FOOT OR LESS. COMPACTION SHALL BE BY MECHANICAL MEANS. CARE SHALL BE TAKEN SO NO DAMAGE OCCURS TO THE CONCRETE BASE DURING COMPACTION.

EXCAVATION OF MATERIALS NOT OCCUPIED BY CONCRETE SHALL BE MINIMIZED TO REDUCE DISTURBANCE OF THE SURROUNDING SOILS.

THE BOTTOM OF THE DRILLED HOLE SHALL BE FIRM AND THOROUGHLY CLEANED SO NO LOOSE OR COMPRESSIBLE MATERIALS ARE PRESENT AT THE TIME OF THE CONCRETE PLACEMENT.

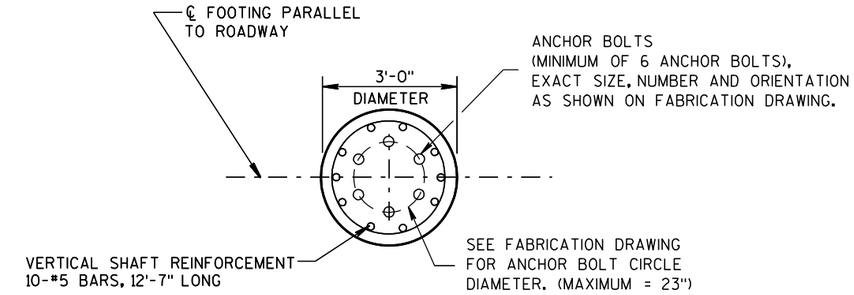
IF THE DRILLED HOLE CONTAINS STANDING WATER, THE CONCRETE SHALL BE PLACED USING A TREMIE TO DISPLACE THE WATER.

THE REINFORCEMENT AND ANCHOR BOLTS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

ANY DAMAGE TO THE CONCRETE BASE DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

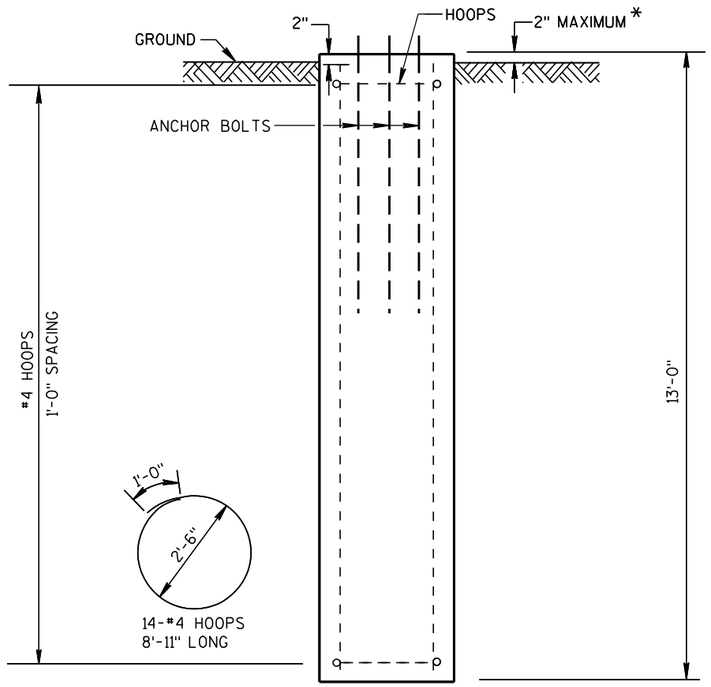
CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR BOLTS	AASHTO M314 GRADE 55

THIS FOOTING HAS BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 20 DEGREES (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 350 PSF (COHESIVE SOILS).



PLAN VIEW

* FOR OVERHEAD SIGN SUPPORTS THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE BASE SHALL BE POURED FLUSH WITH THE GROUND.



ELEVATION VIEW

CONCRETE - 3.4 C.Y. PER FOOTING
H.S. REINFORCEMENT - 215 LBS. PER FOOTING

36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

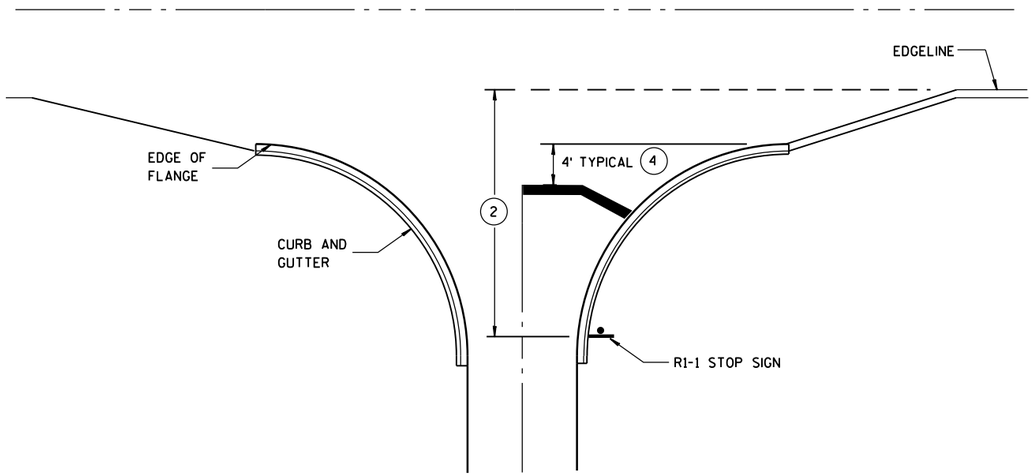
APPROVED
4/17/2009 DATE
/S/ Thomas N. N[illegible] STATE TRAFFIC ENGINEER
334 IGN
FHWA

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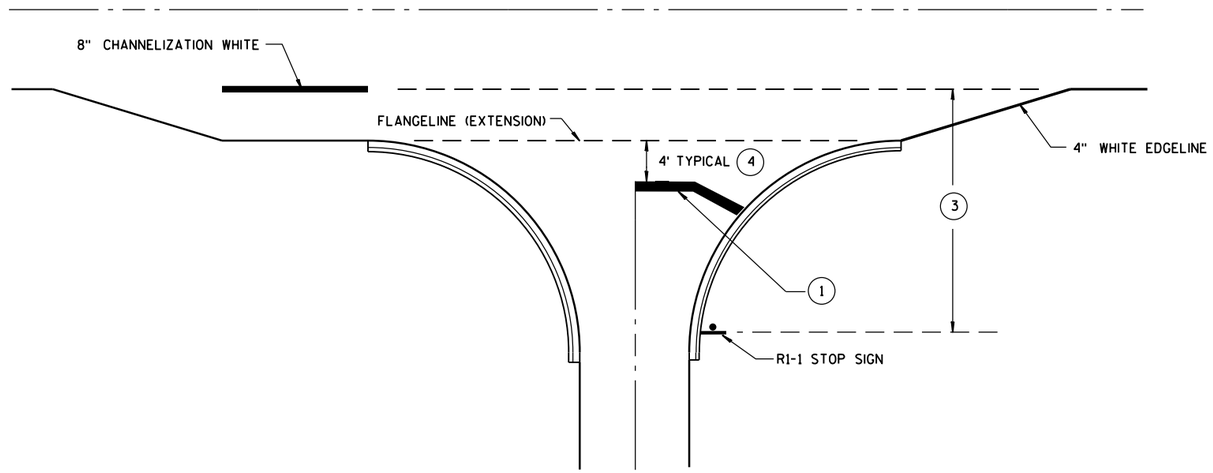
S.D.D. 15 C 24-2

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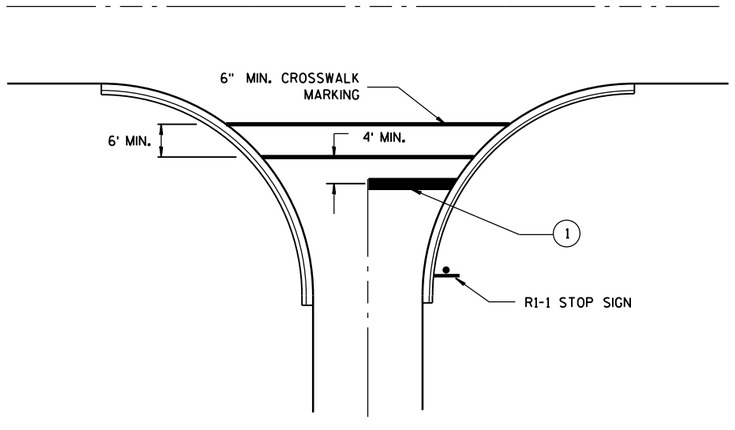
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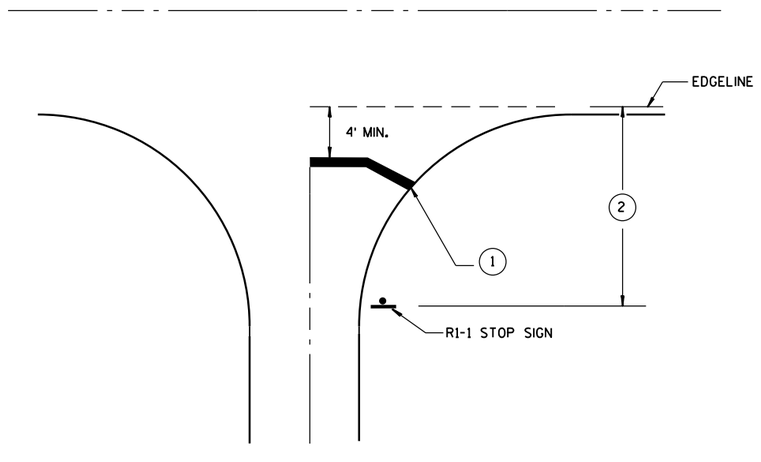
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

6

S.D.D. 15 C 33-1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

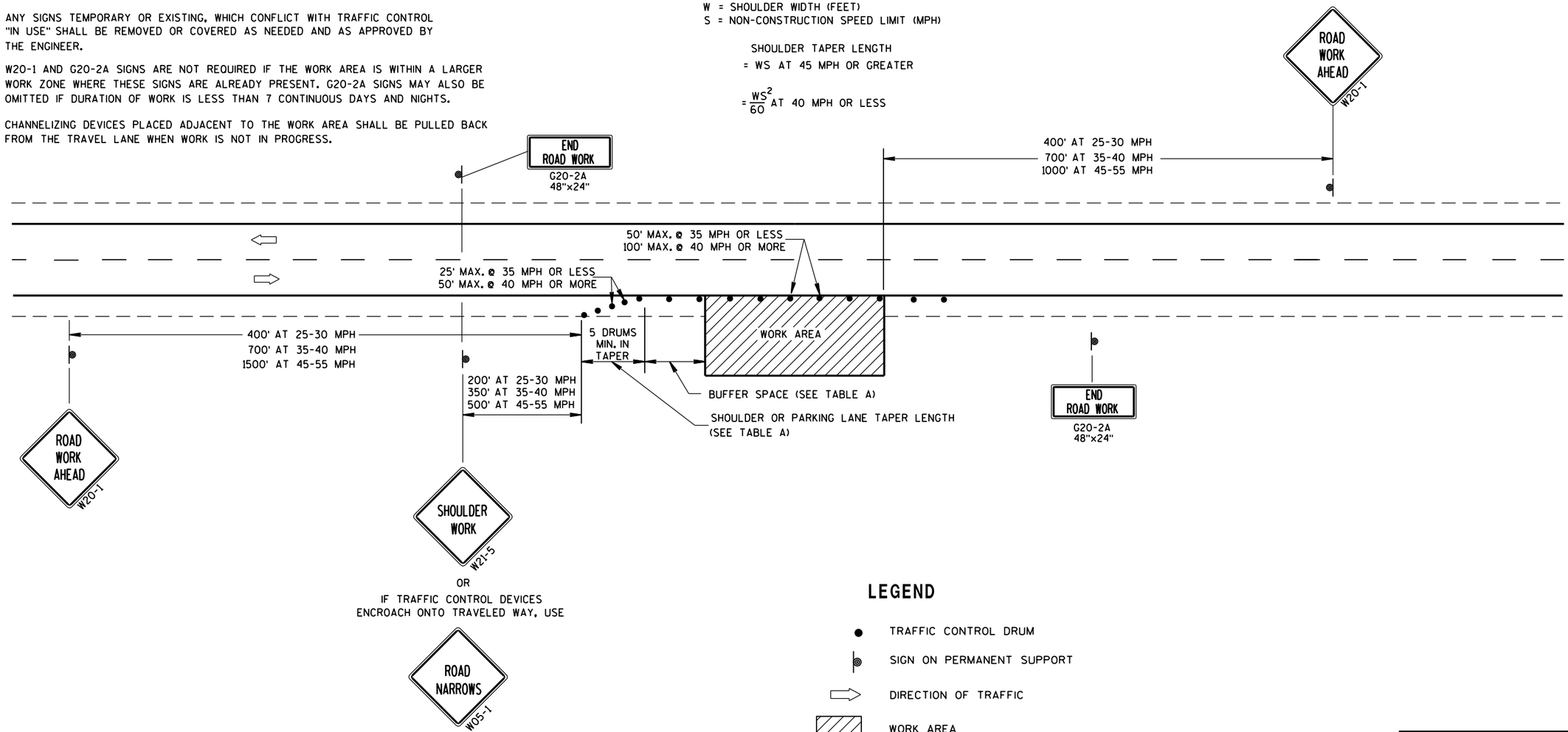
TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= WS AT 45 MPH OR GREATER

$= \frac{WS^2}{60}$ AT 40 MPH OR LESS



LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

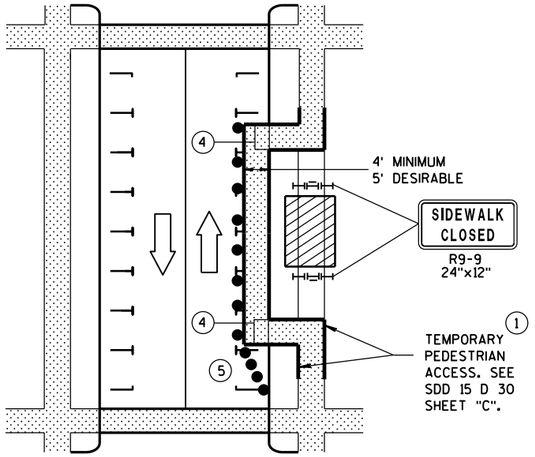
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S.D.D. 15 D 28-2

6

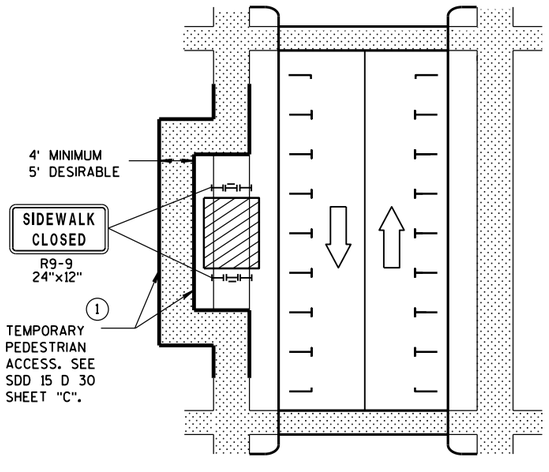
S.D.D. 15 D 28-2

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

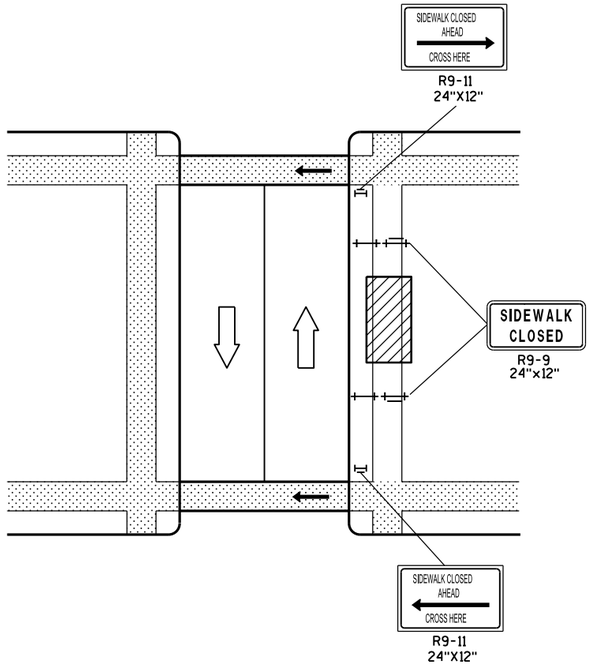


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

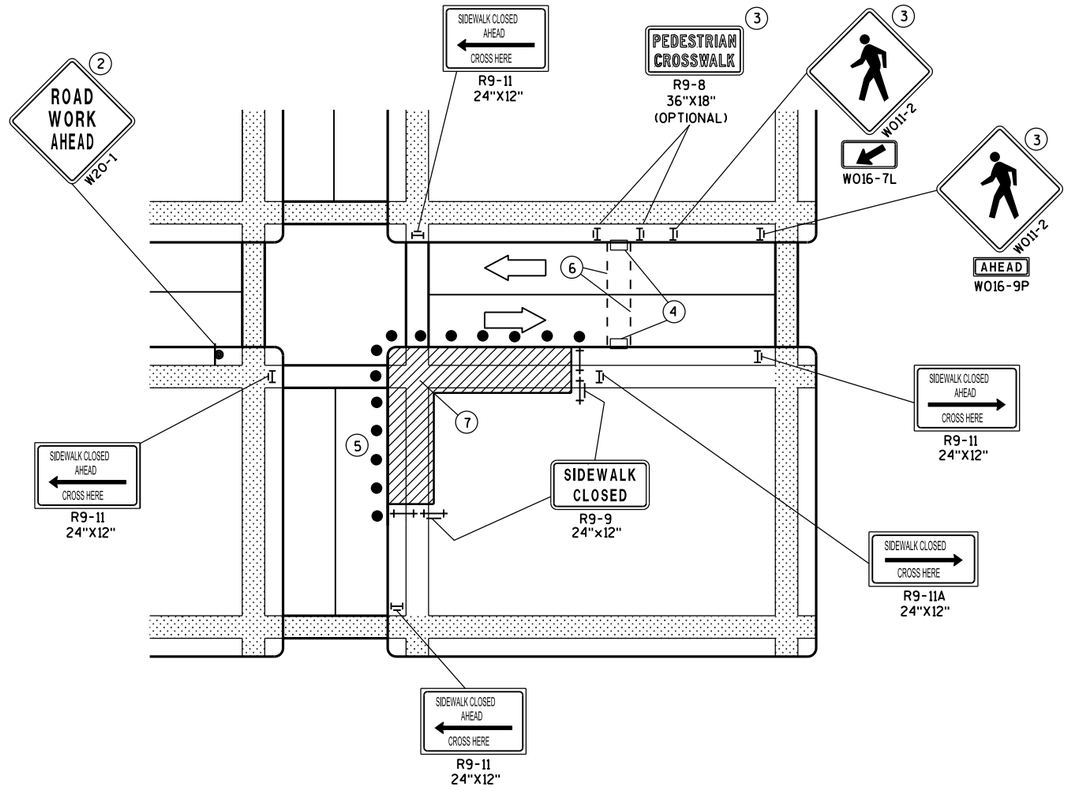
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

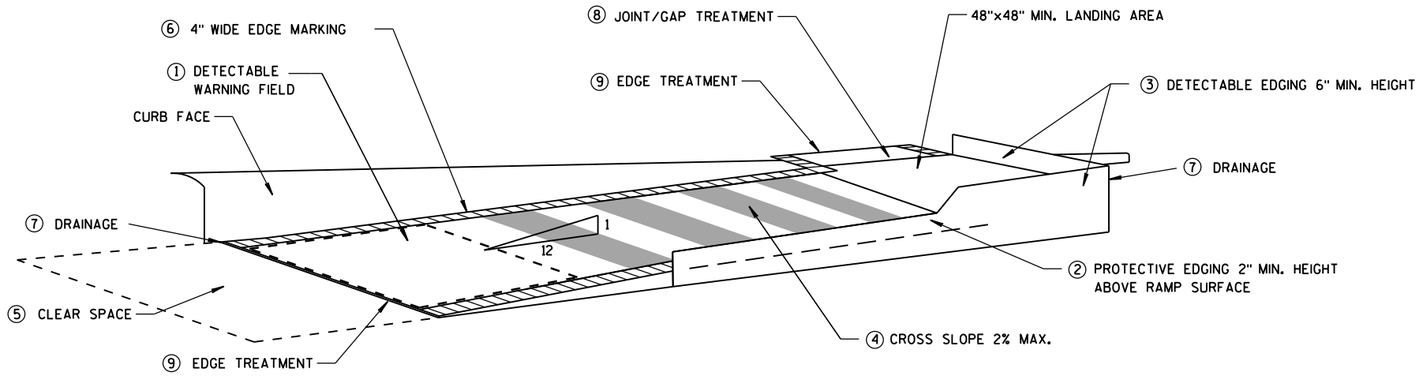
- SIGN ON PERMANENT SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- DIRECTION OF TRAFFIC
- TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 30-2a



TEMPORARY CURB RAMP PARALLEL TO CURB

GENERAL NOTES

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

① CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 8D5 SHEET "E".

② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

④ CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

⑤ CLEAR SPACE OF 48"X48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

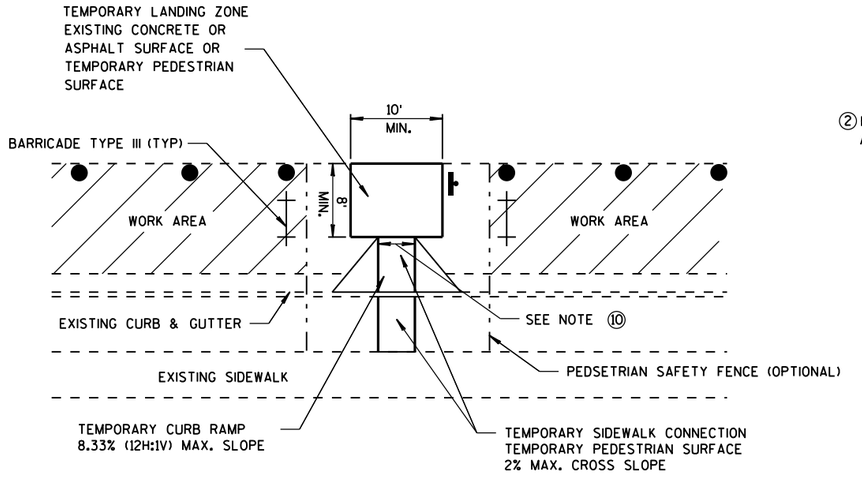
⑥ THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.

⑦ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

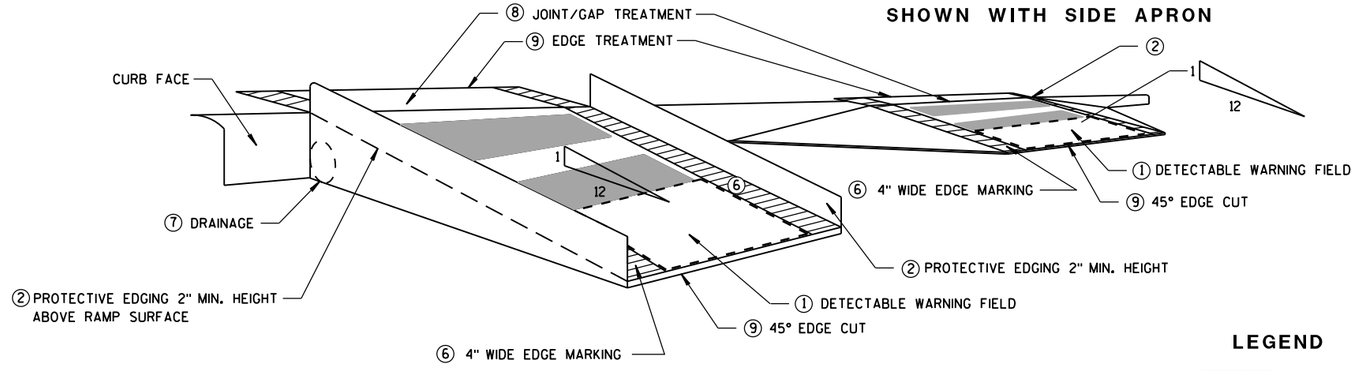
⑧ LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

⑨ CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHALL BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

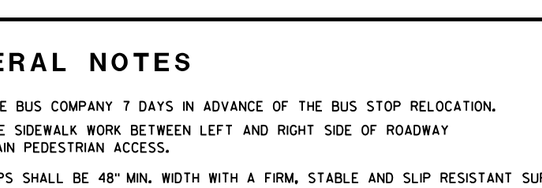
⑩ 5' WIDE MIN. WITH PEDSETRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.



TEMPORARY BUS STOP PAD



SHOWN WITH PROTECTIVE EDGE



TEMPORARY CURB RAMP PERPENDICULAR TO CURB

LEGEND

WORK AREA

TYPE III BARRICADE

TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

March 2015 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER — SIGN

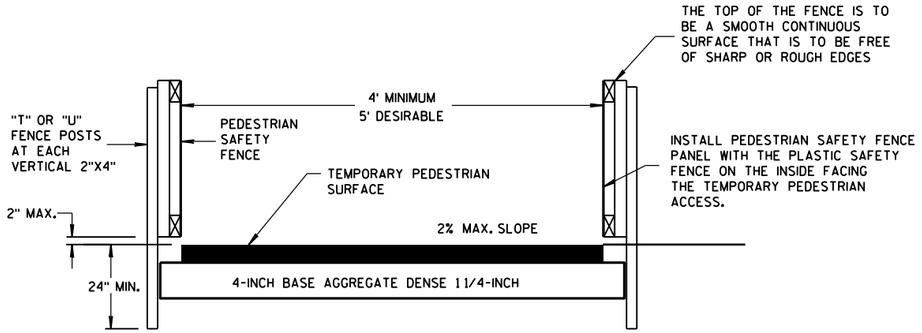
FHWA

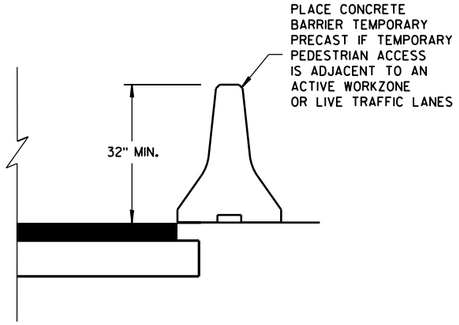
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S.D.D. 15 D 30-2b

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S.D.D. 15 D 30-2b

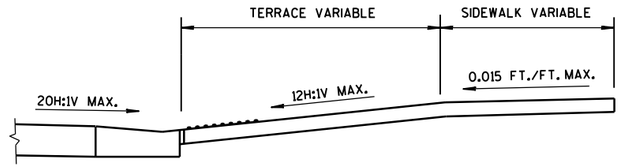




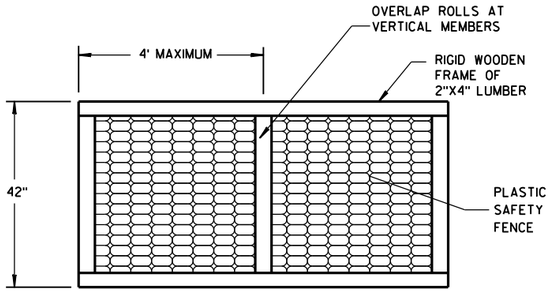
TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

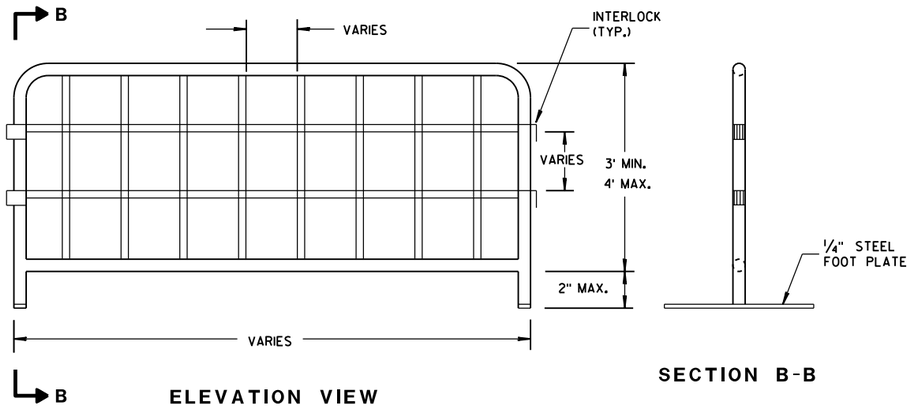
(1) INTERCHANGEABLE WITH THE PEDESTRIAN SAFETY FENCE.



SECTION A-A



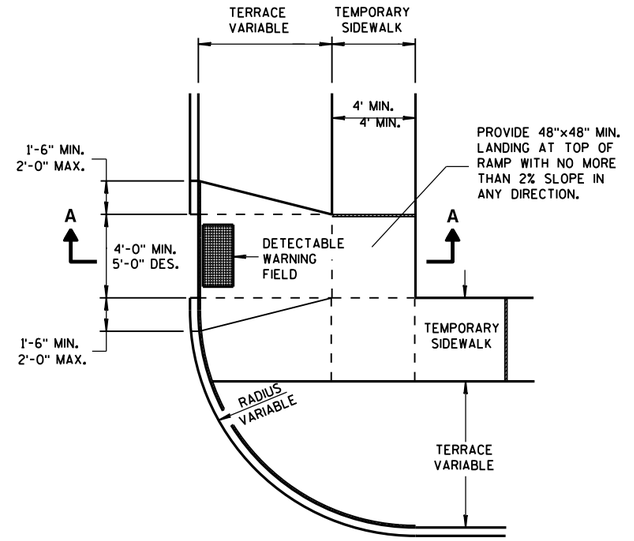
PEDESTRIAN SAFETY FENCE



ELEVATION VIEW

SECTION B-B

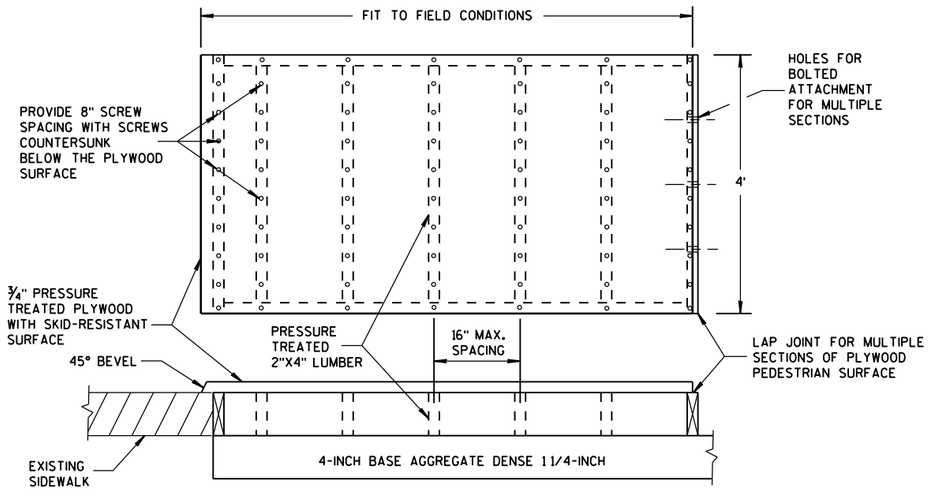
TEMPORARY PEDESTRIAN STEEL BARRICADE (1)



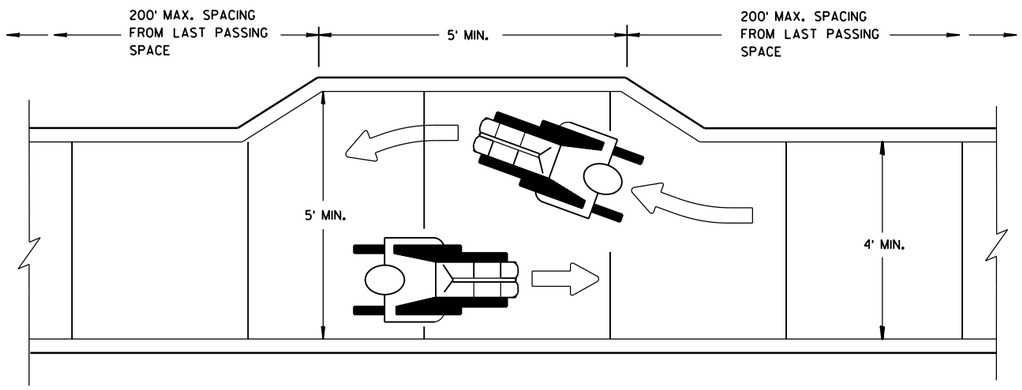
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



NARROW SIDEWALK PASSING DETAIL

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

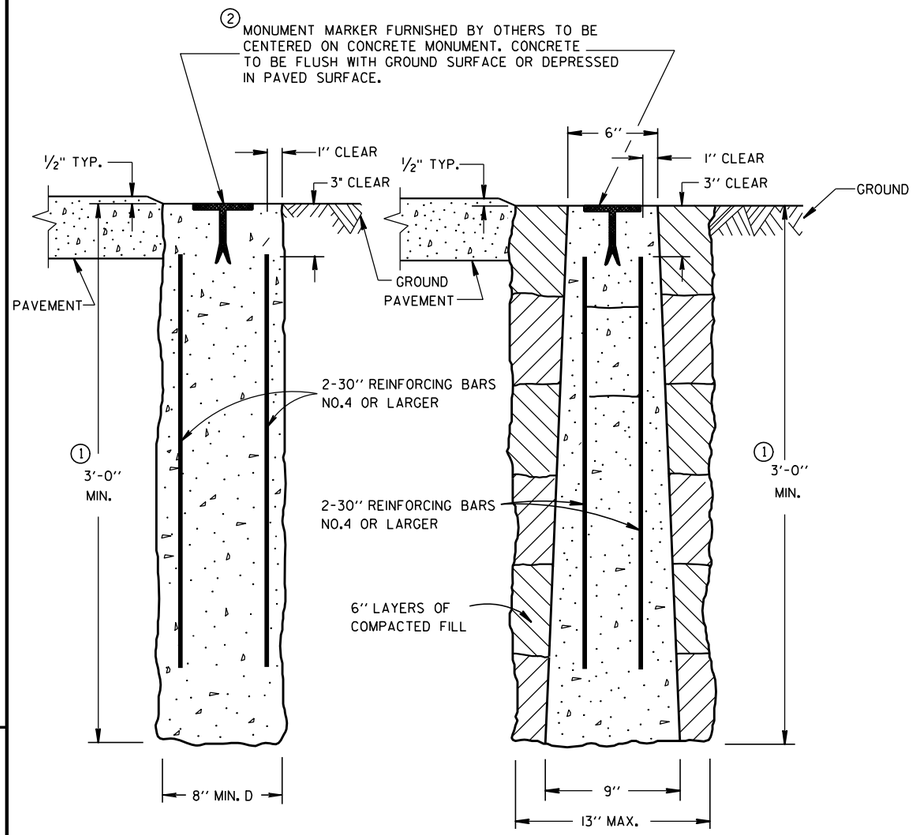
APPROVED
March 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER — SIGN
FHWA

6

S.D.D. 15 D 30-2c

6

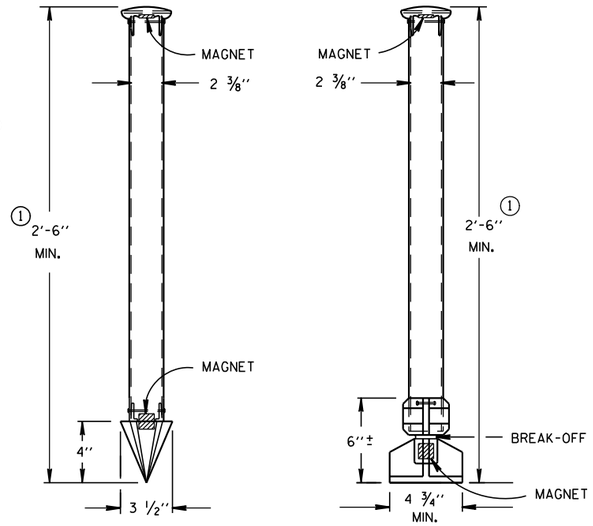
S.D.D. 15 D 30-2c



CAST-IN-PLACE PRECAST

CONCRETE MONUMENTS

TYPE A



ALUMINUM MONUMENTS

(INCLUDES MARKER)

GENERAL NOTES

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

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

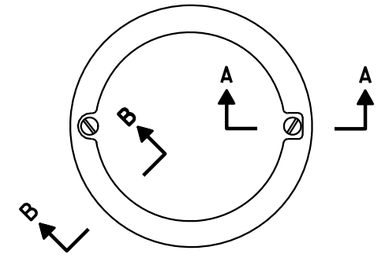
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

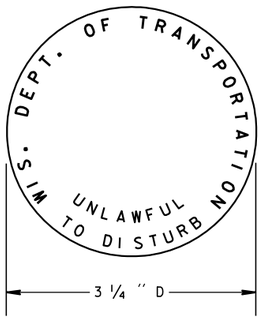
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.

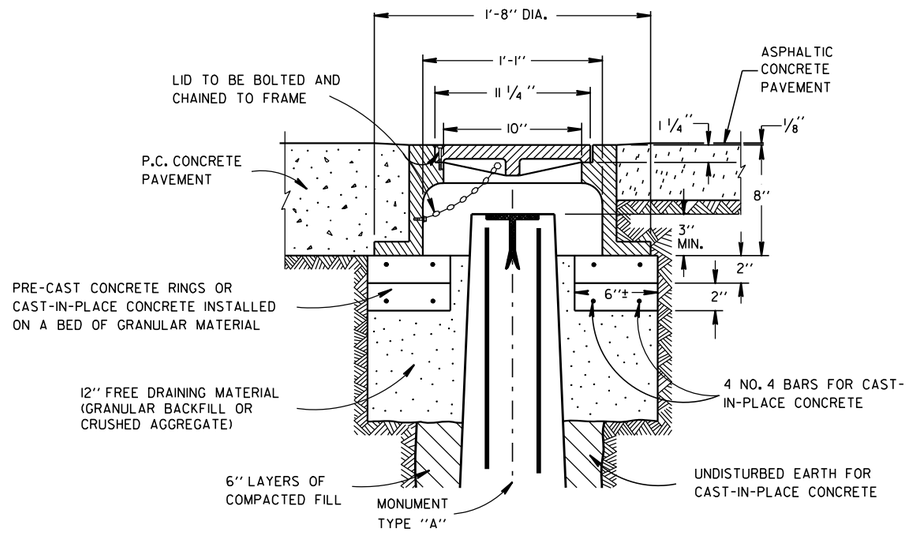


TOP VIEW



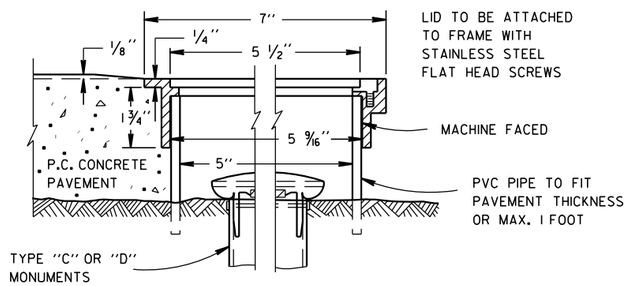
② WIS DOT MONUMENT MARKER LOGO

FOR TYPES "A", "C" & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)

(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MOUNMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/22/1999 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

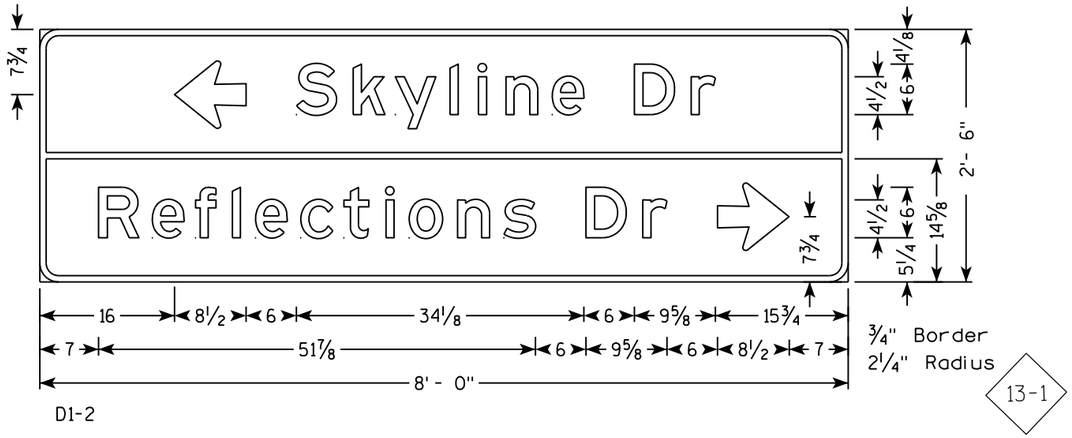
S.D.D. 16 A 1-6

6

S.D.D. 16 A 1-6

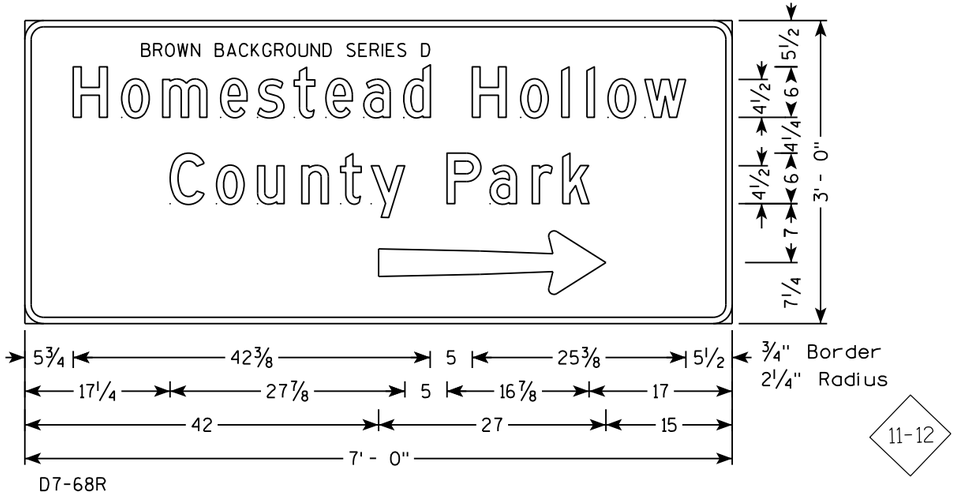
NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - GREEN except as Shown
   Message - WHITE
3. Message Series - E except as Shown



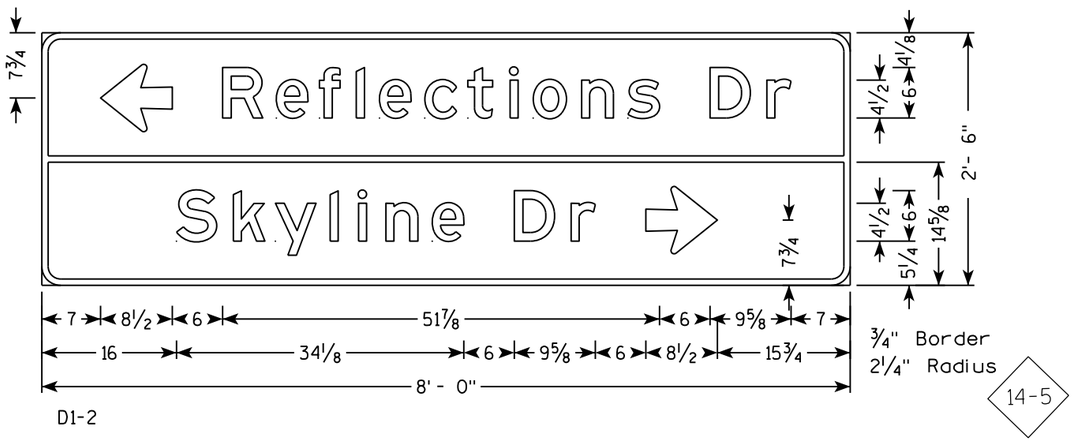
D1-2

13-1



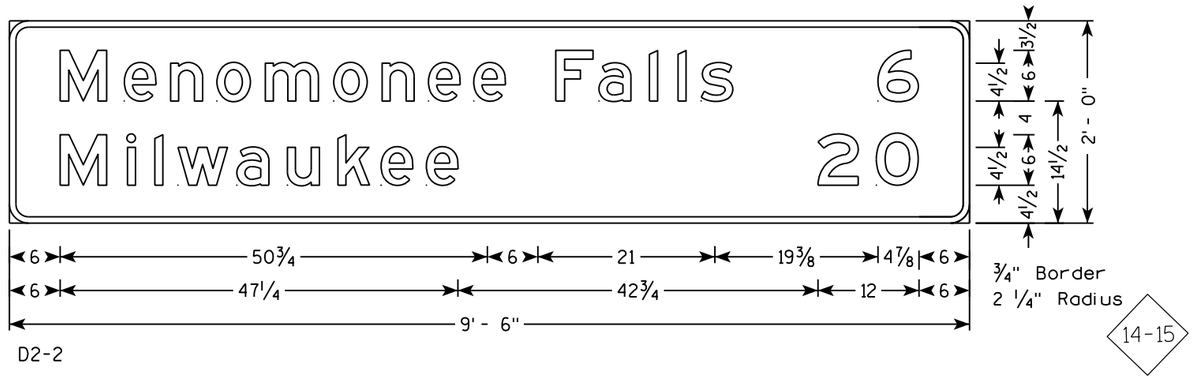
D7-68R

11-12



D1-2

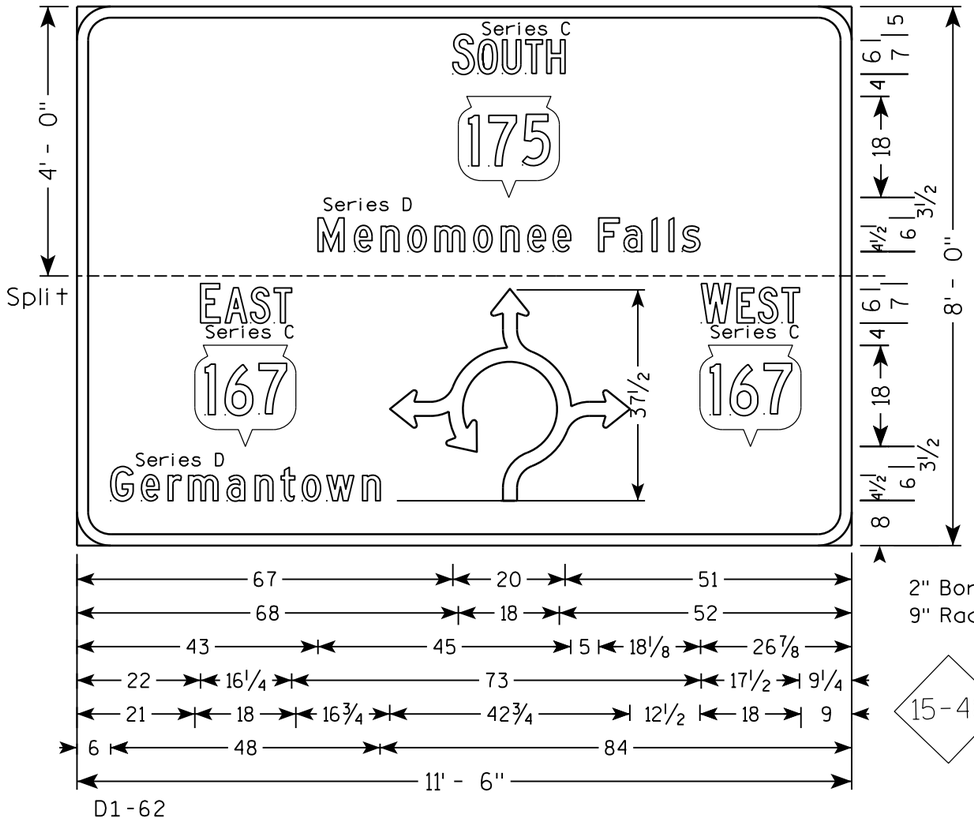
14-5

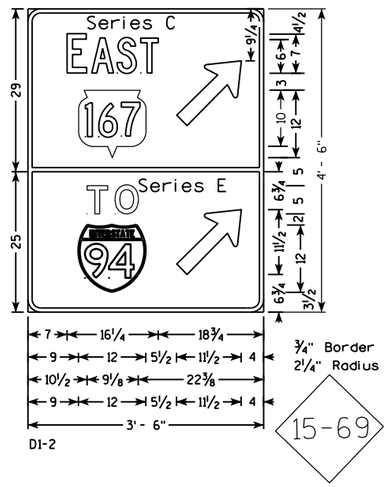


D2-2

14-15

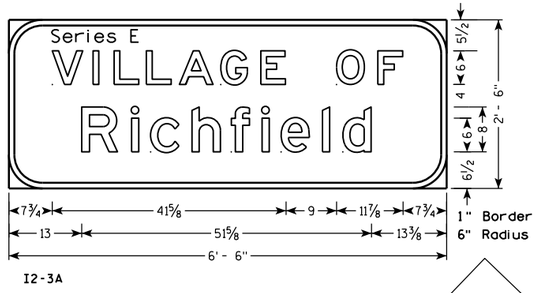
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET NO: 341	E

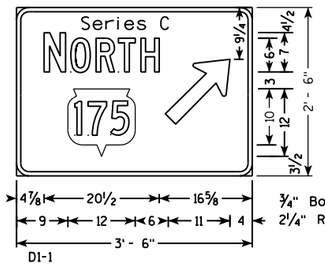


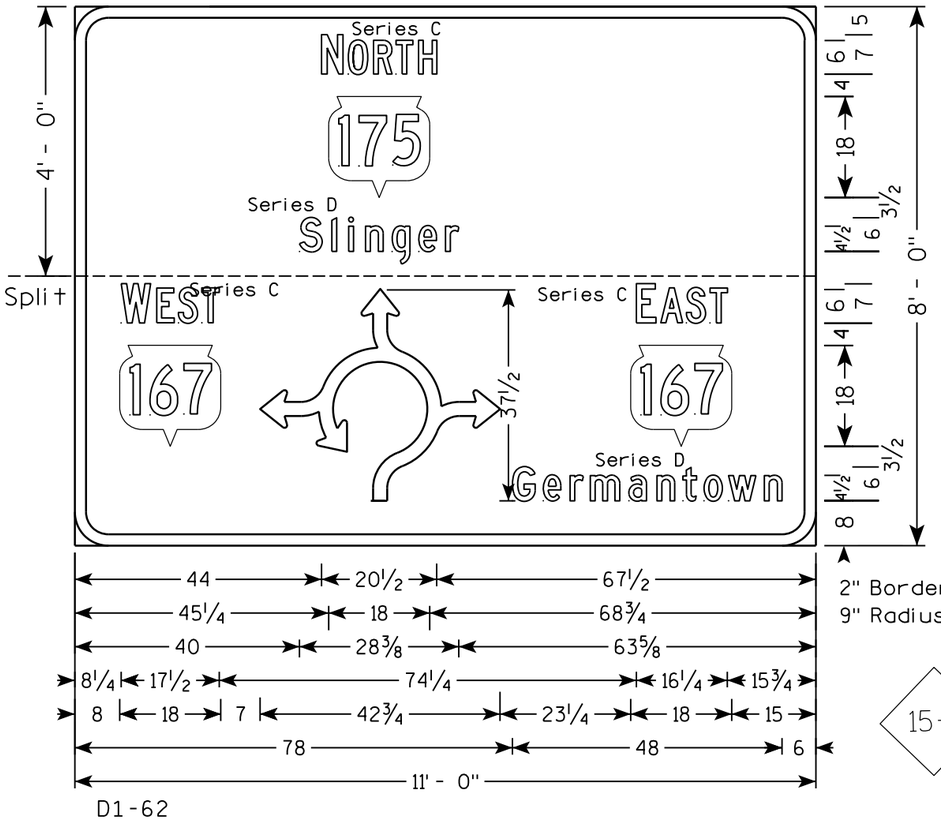


NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - as Shown







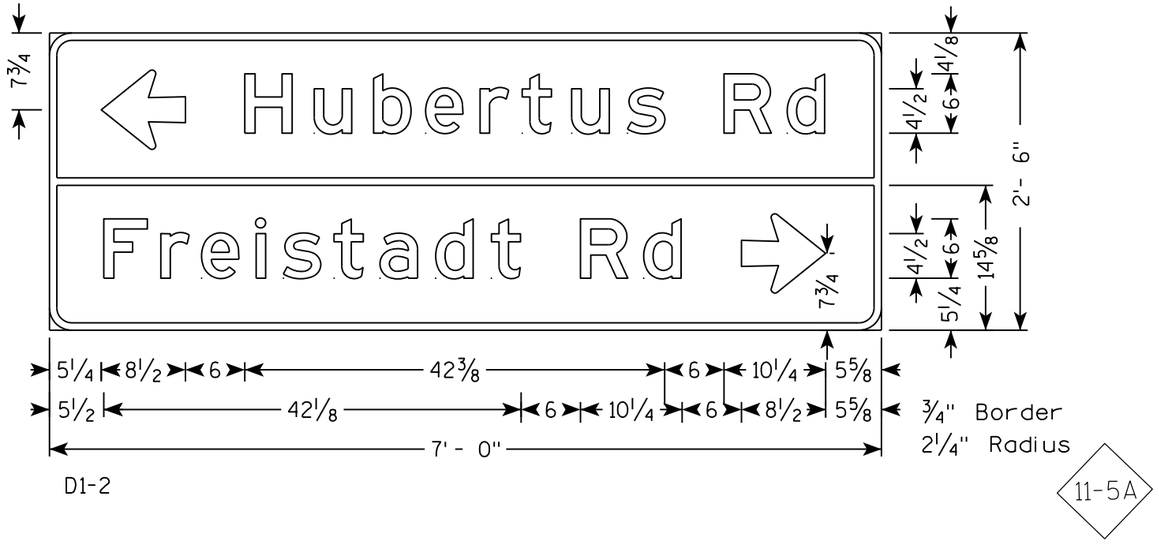
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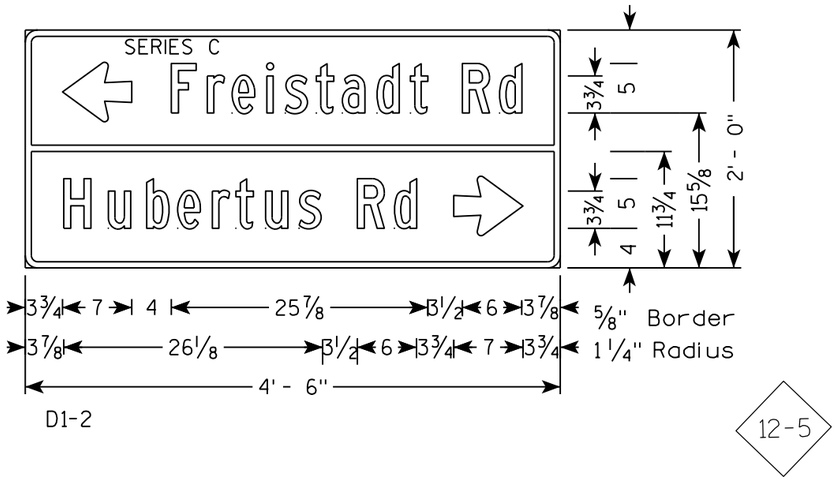
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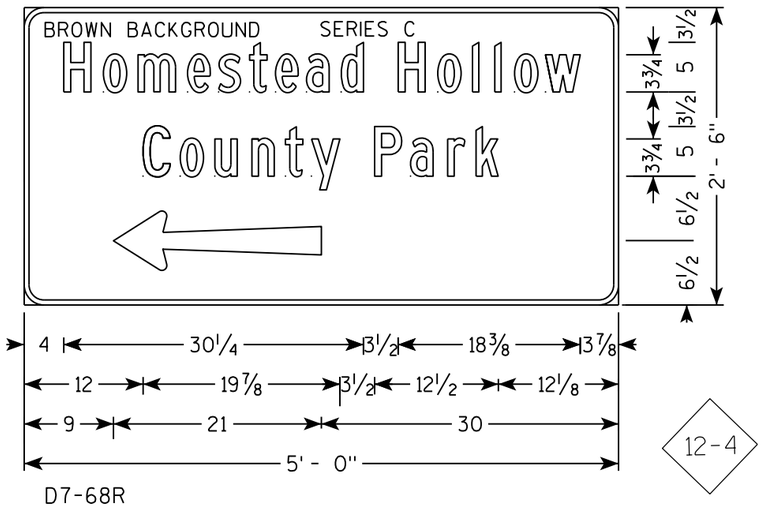
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	PERMANENT SIGNING	SHEET NO: 342	E

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - GREEN except as Shown
   Message - WHITE
3. Message Series - E except as Shown

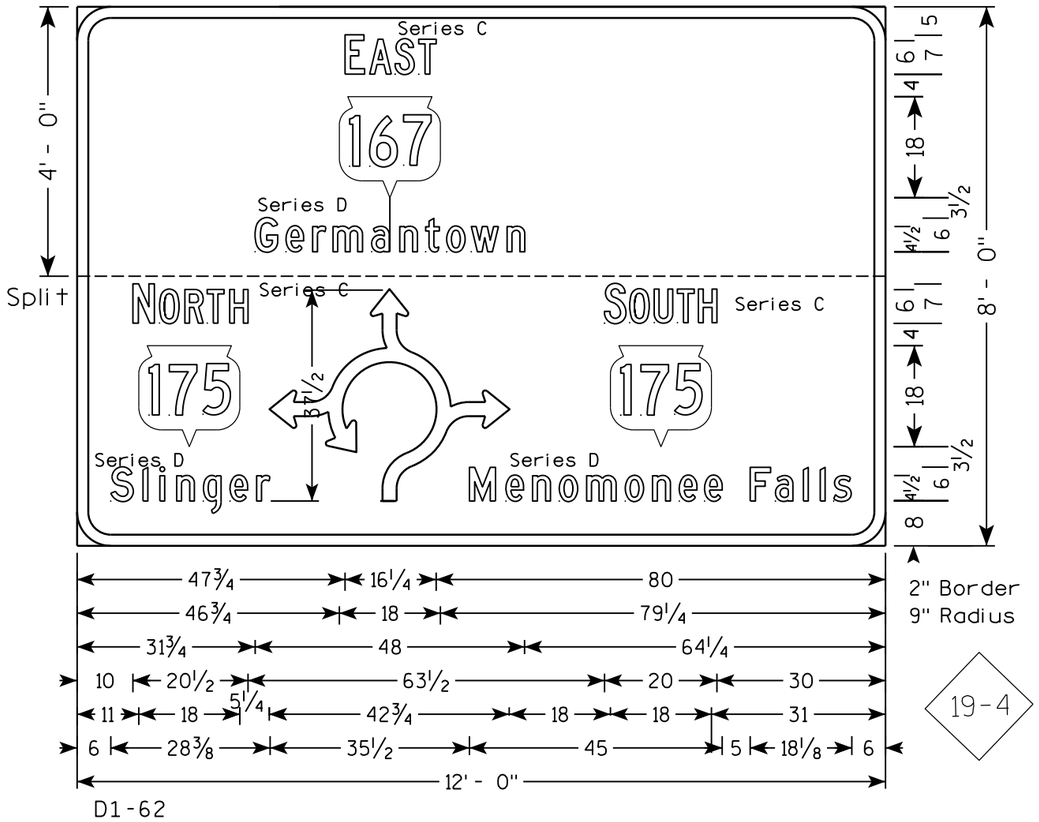


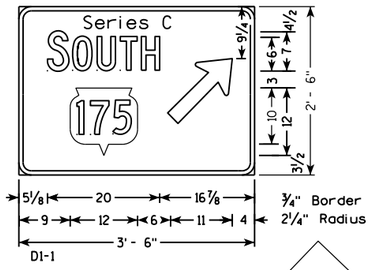




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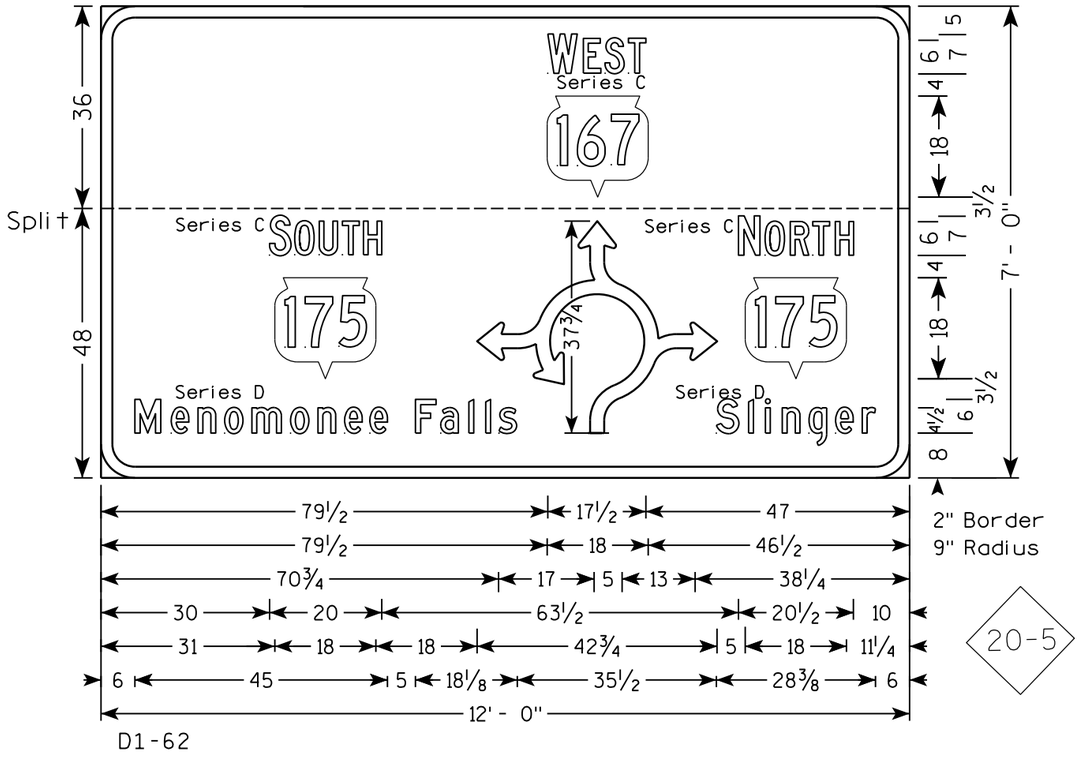
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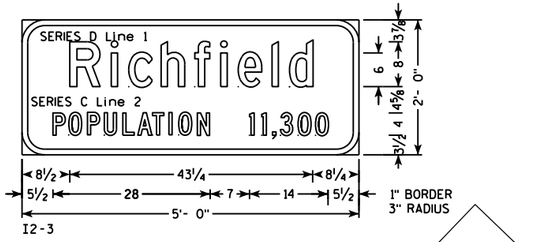


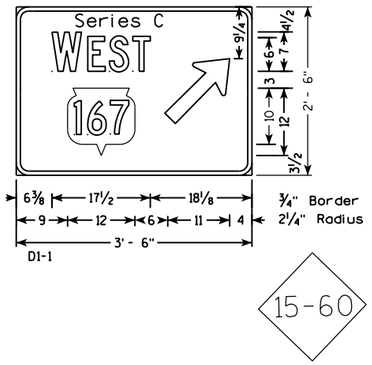


NOTES

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2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - as Shown



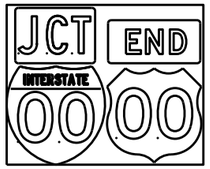




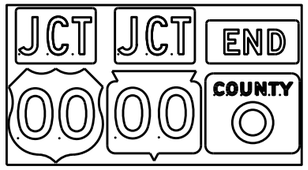
TYPICAL ASSEMBLIES



J1-1



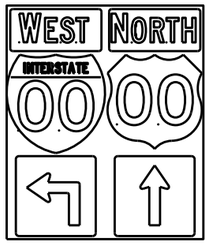
J1-2



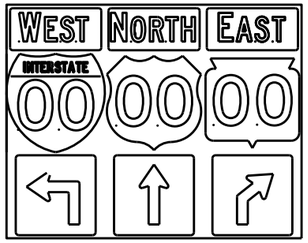
J1-3



J2-1



J2-2

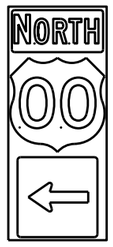


J2-3

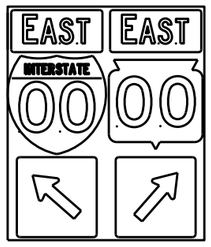


JV

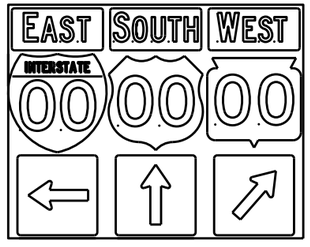
(Typical Vertical J-Assembly
See Note 10 and 11)



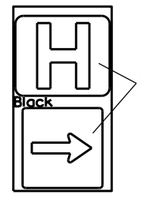
J3-1



J3-2



J3-3

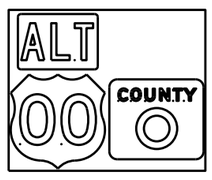


Blue Background

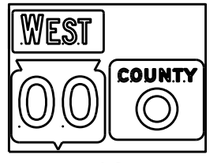
JH-1



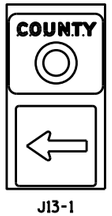
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

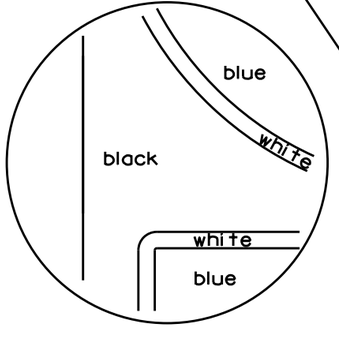


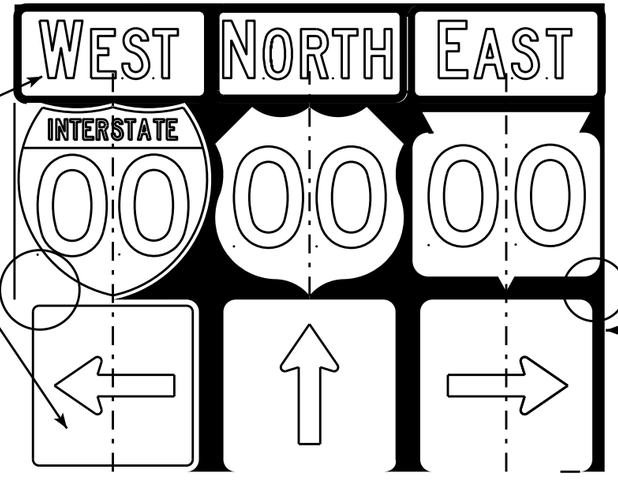
J23-1

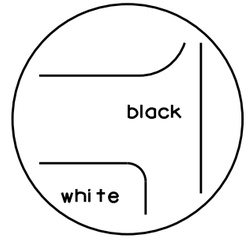


J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

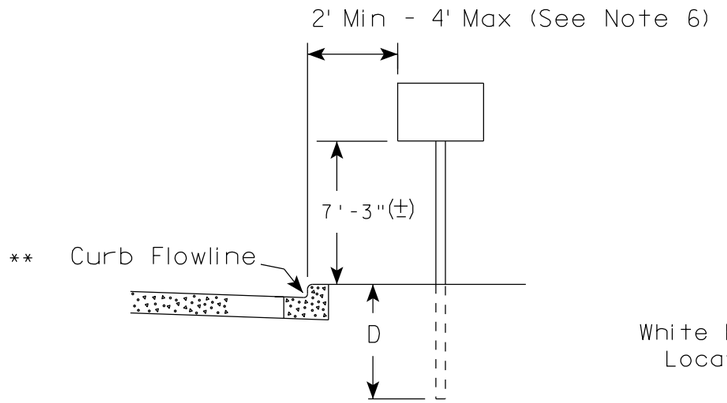
DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

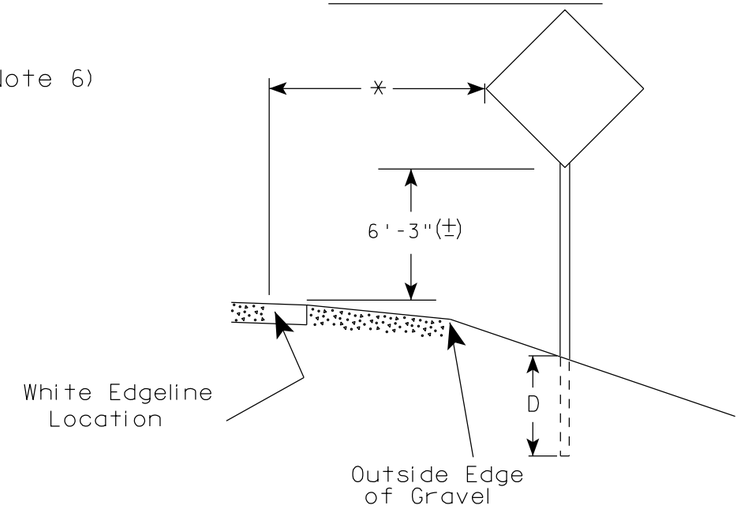
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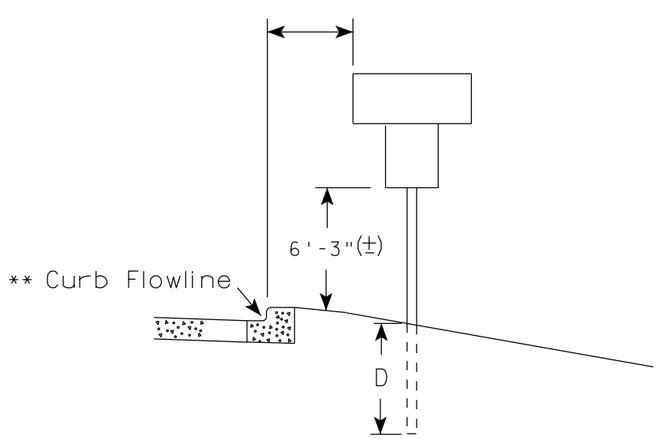
WISDOT/CADDS SHEET 42

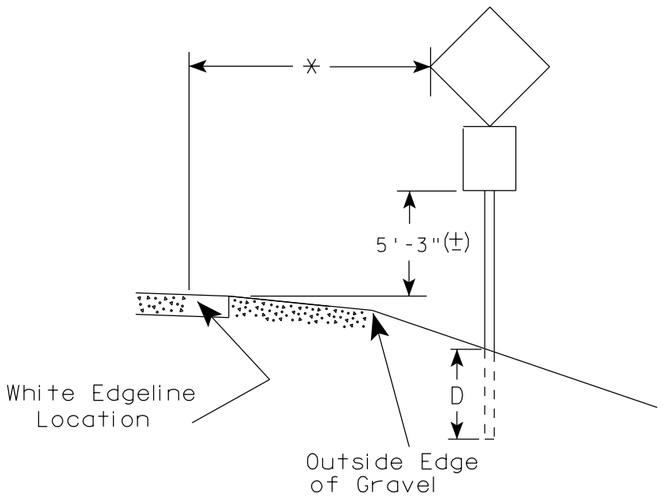
URBAN AREA



RURAL AREA (See Note 2)







GENERAL NOTES

1. Signs wider than 4 feet, 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. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
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.

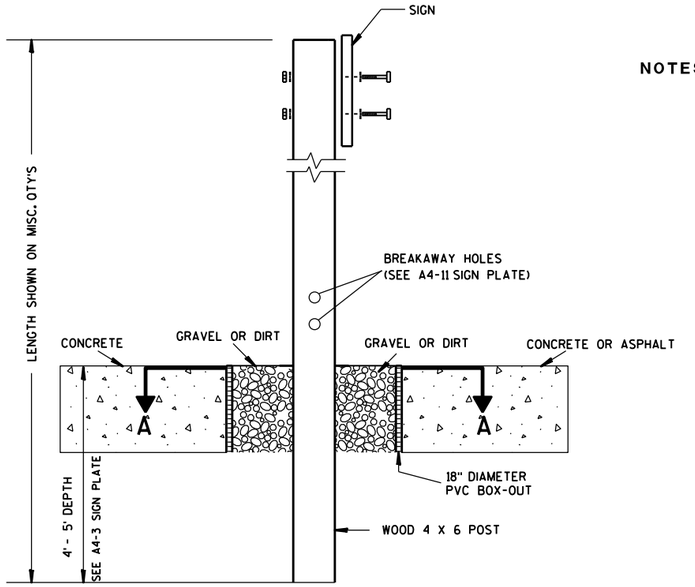
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/14 PLATE NO. A4-3.19

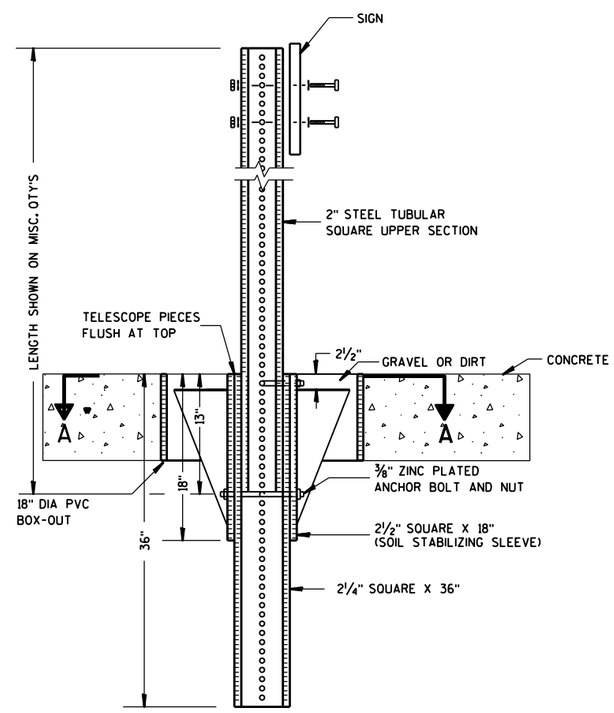
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

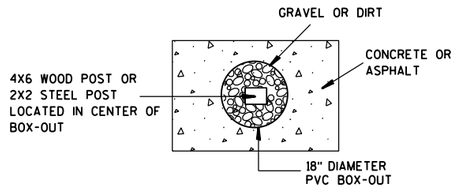
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

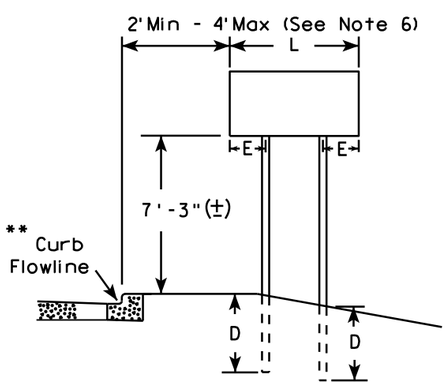
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

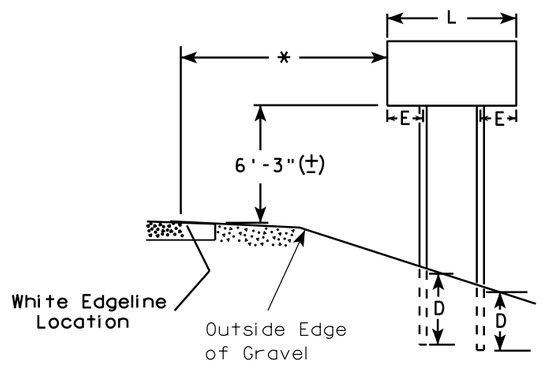
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

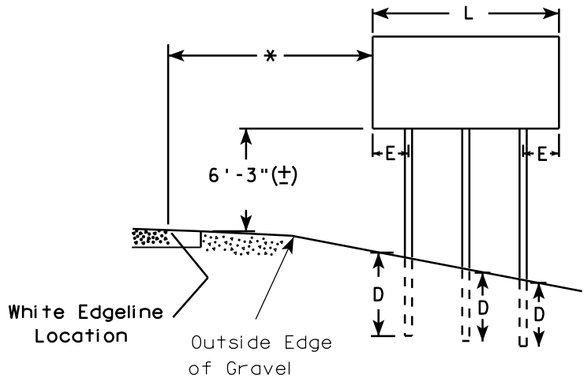
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

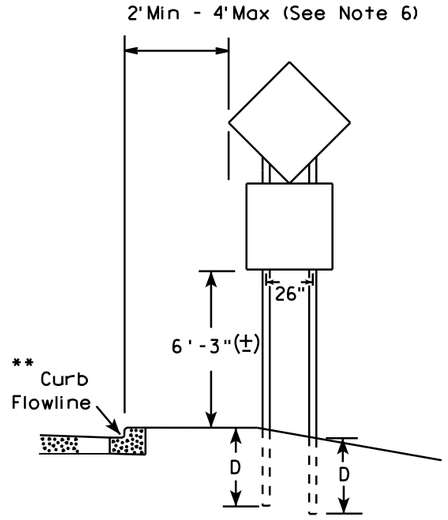
URBAN AREA



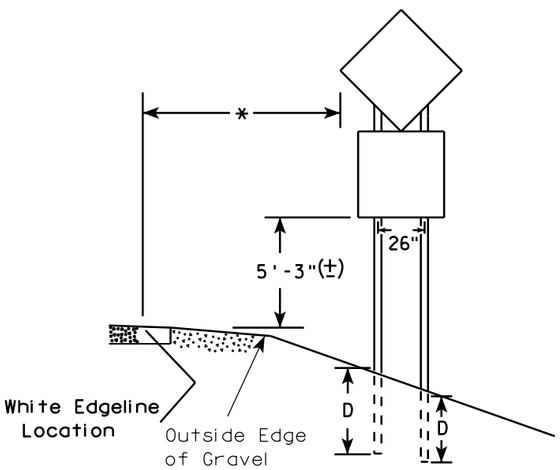
RURAL AREA (See Note 3)







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 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	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. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
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 or 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'

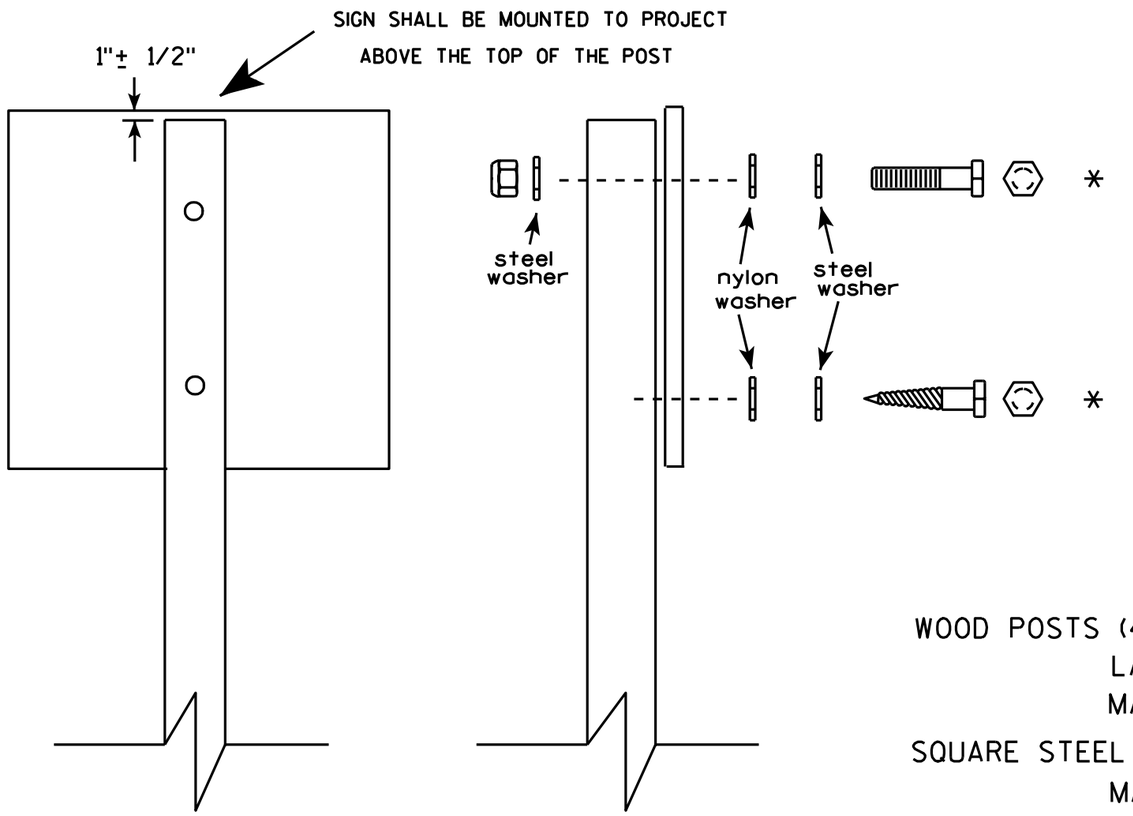
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/14 PLATE NO. A4-4 348 13

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	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

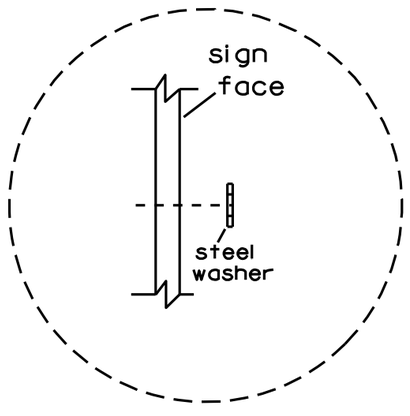
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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.

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.



Washer Placement when Sign Has Other Than Type H or Type F Face

* 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 3/23/10 PLATE NO. A4-8.7

7

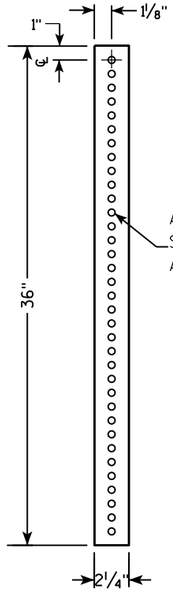
7

PROJECT NO:

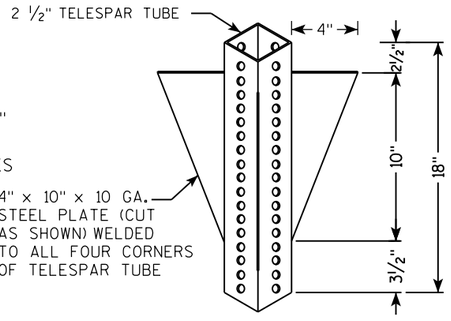
SHEET NO: 349 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

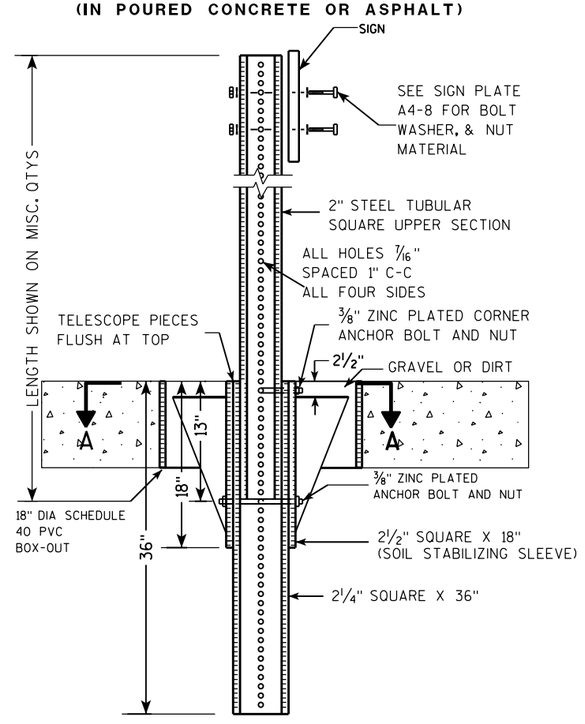
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



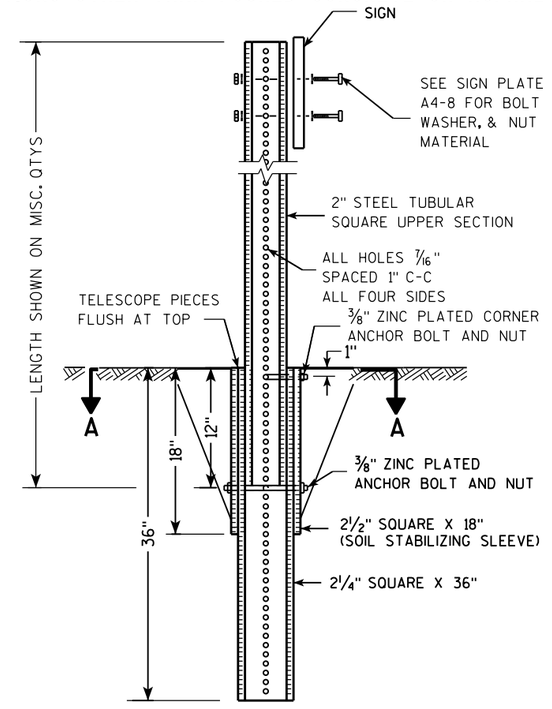
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

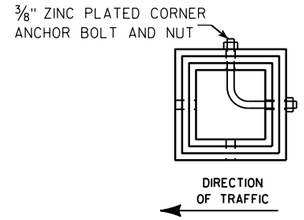


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

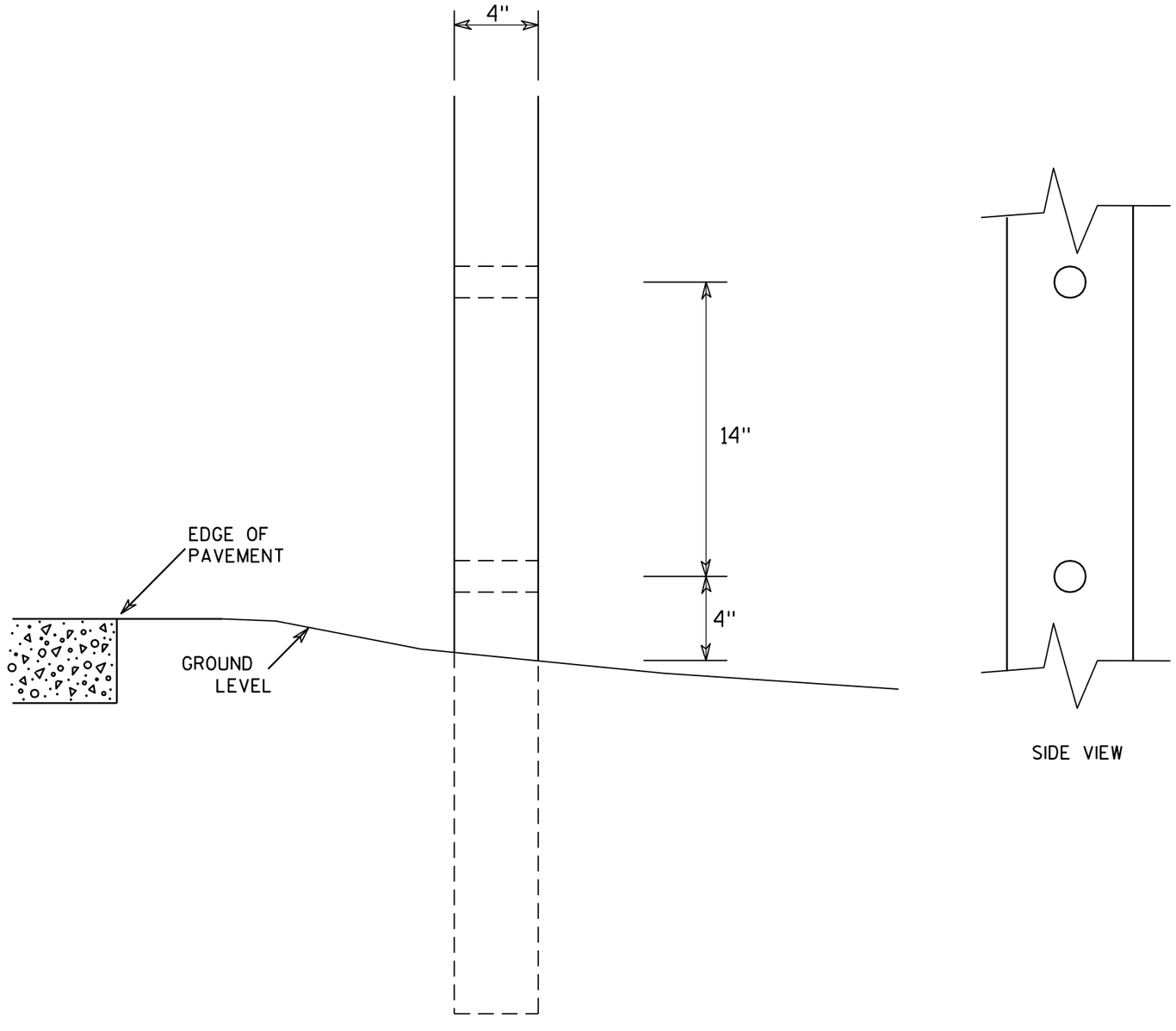
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 350 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



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

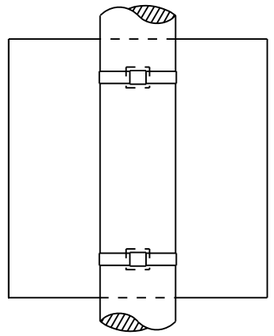
APPROVED Chester J Spang
for State Traffic Engineer

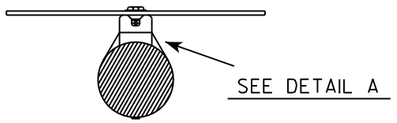
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 351	E

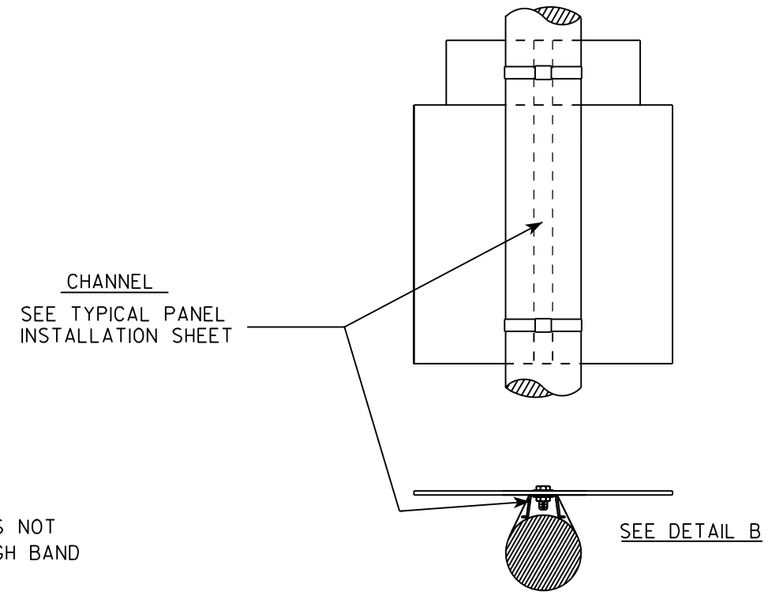
BANDING

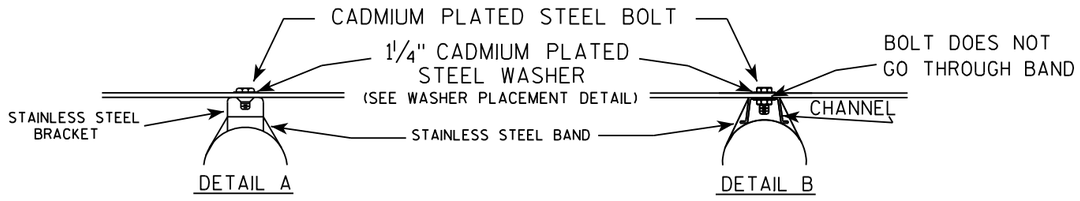
SINGLE SIGN



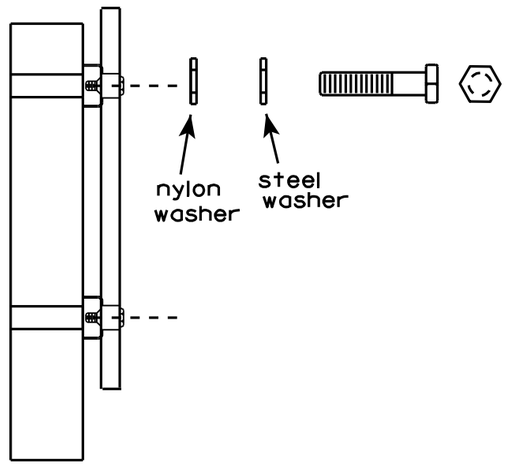


"J" ASSEMBLY





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.

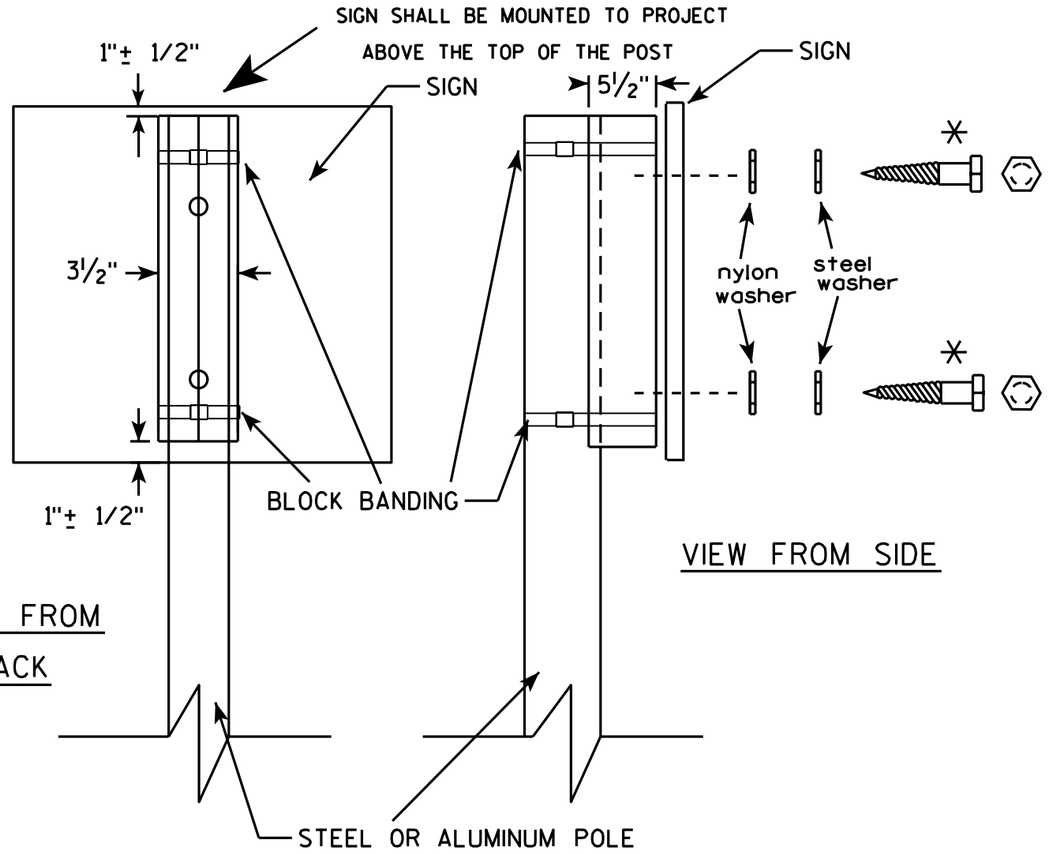
STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

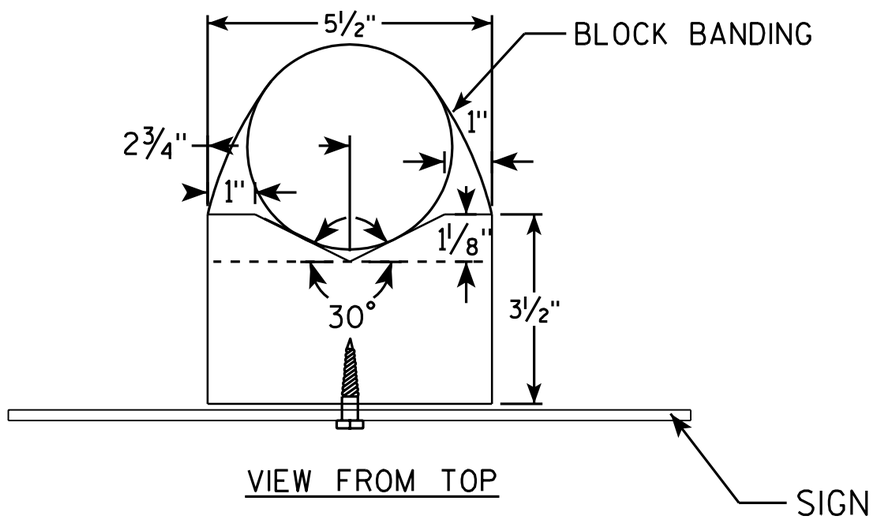
DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 352	E



VIEW FROM SIDE

VIEW FROM BACK



VIEW FROM TOP

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

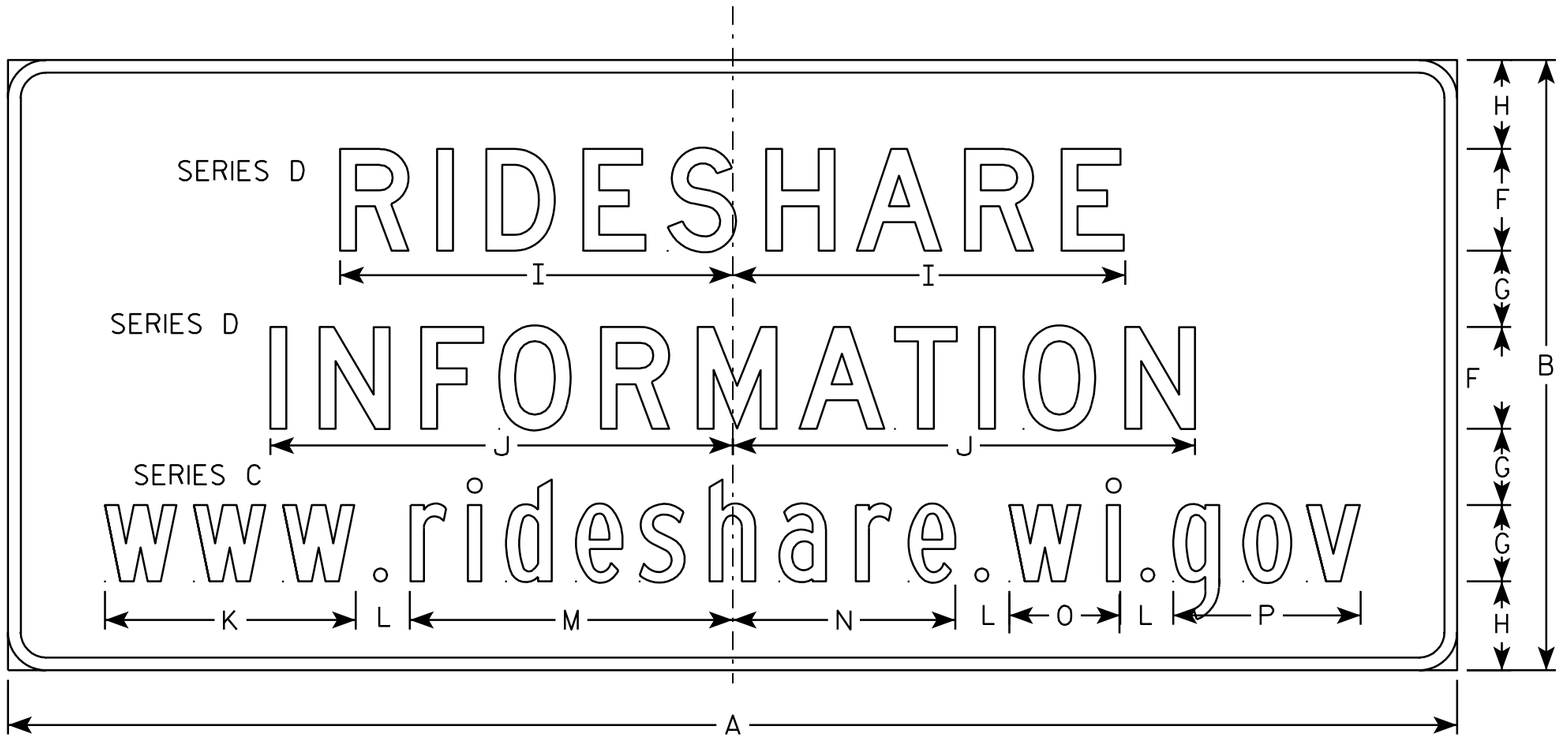
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 353 E

FILE NAME : C:\Users\Projects\tr_stdplate\A510.dgn PLOT DATE : 06-AUG-2007 13:37 PLOT BY : ditjph

WISDOT/CADDS SHEET 42



D12-2B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Blue
   Message - White
3. Message Series - Lines 1 & 2 are Series D and Line 3 is 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	
2	2100 mm X 900 mm
3	
4	2850 mm X 1200 mm
5	2850 mm X 1200 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																												
2	84	36	2 1/4		3/4	6	4 1/2	5 1/4	24 1/4	28 5/8	14 3/4	3	19	13 1/8	6 1/2	11											21.0	1.90
3																												
4	114	48	3		1	8	6	7	30 7/8	36 3/8	19 3/4	4 1/4	25 3/8	17 1/2	8 3/4	14 3/4											38.0	3.42
5	114	48	3		1	8	6	7	30 7/8	36 3/8	19 3/4	4 1/4	25 3/8	17 1/2	8 3/4	14 3/4											38.0	3.42

STANDARD SIGN
D12-2B

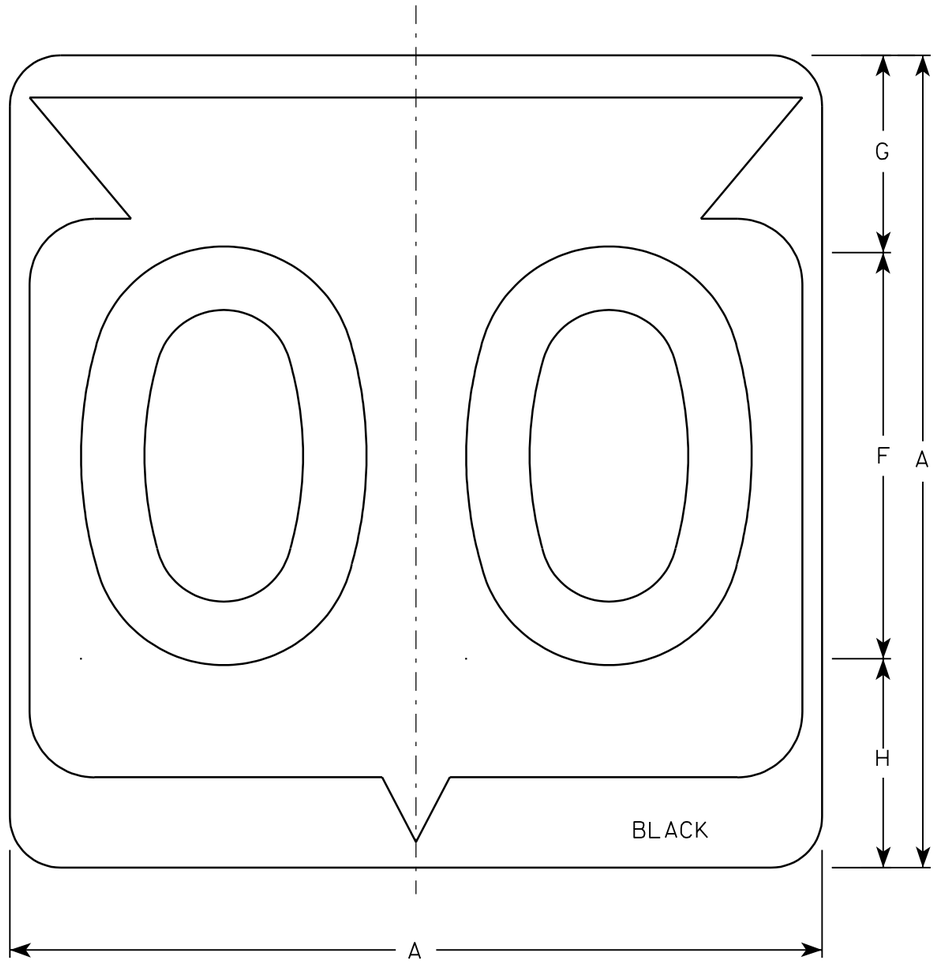
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/04/08 PLATE NO D12-2B.2

PROJECT NO:

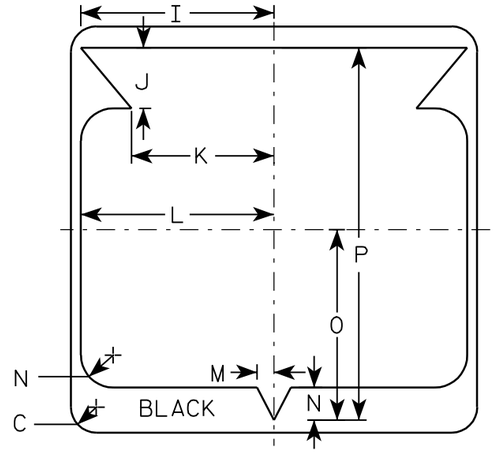
SHEET NO: 354 E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   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. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 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																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

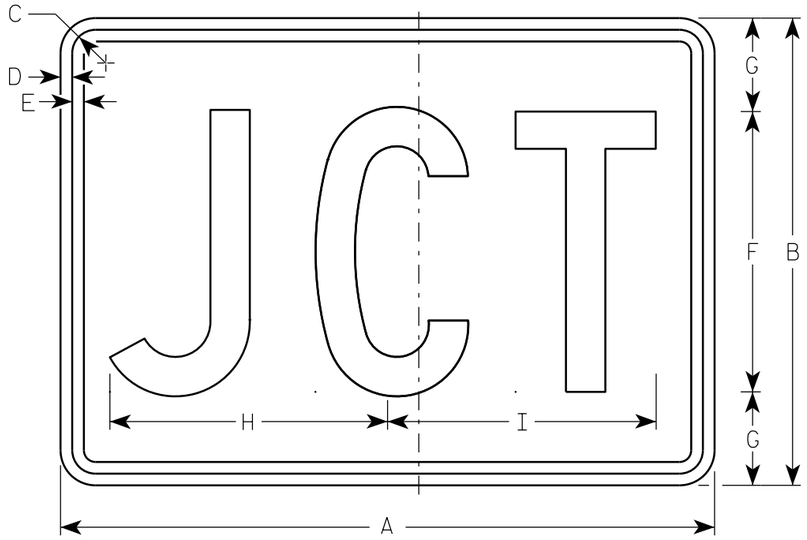
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

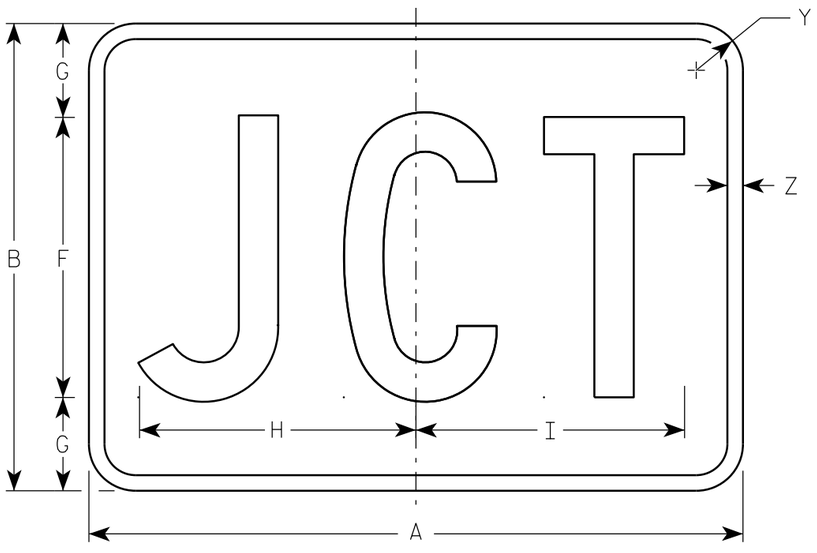
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 355	E



M2-1
MK2-1
MM2-1
MN2-1
MR2-1



MB2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   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. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

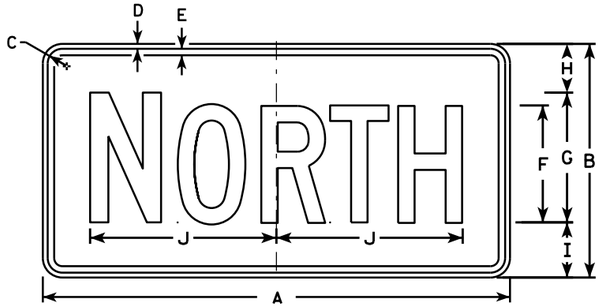
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

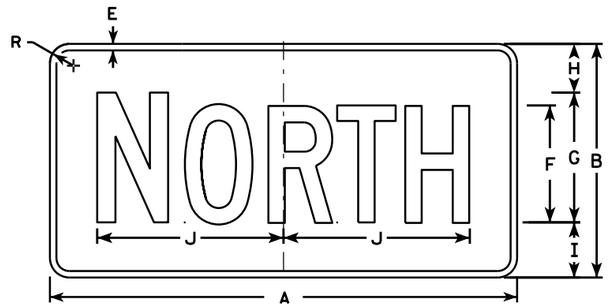
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/30/14 PLATE 356 12-1.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



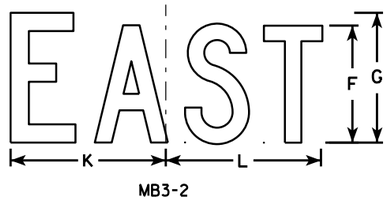
M3-1
MK3-1
MM3-1
MN3-1



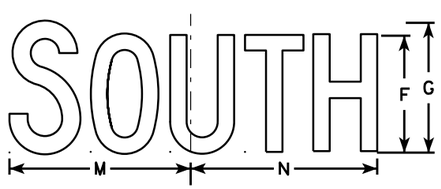
MB3-1



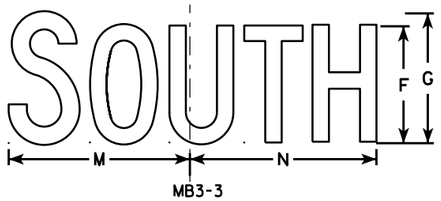
M3-2
MK3-2
MM3-2
MN3-2



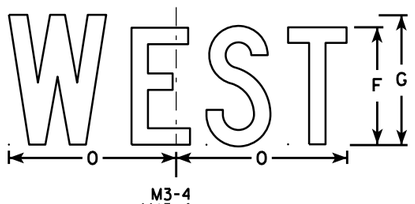
MB3-2



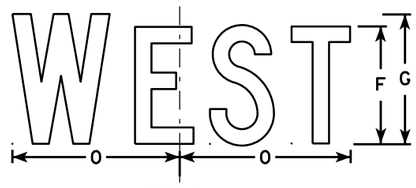
M3-3
MK3-3
MM3-3
MN3-3



MB3-3



M3-4
MK3-4
MM3-4
MN3-4



MB3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   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. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 6/30/14 PLATE NO M3-1.13

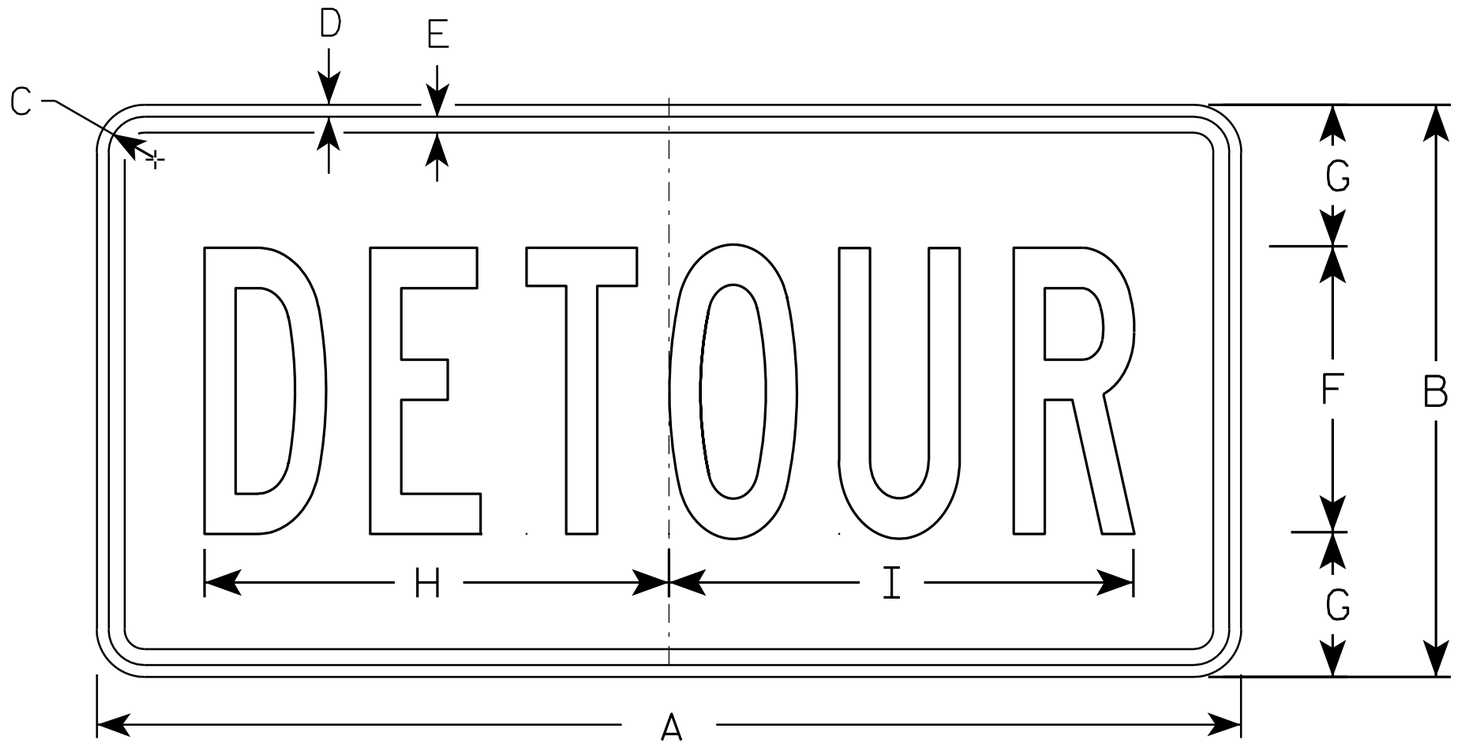
PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 30-JUN-2014 12:53 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 11.675051:1.000000

WISDOT/CADDS SHEET 42

7

7



M4-8

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 - B
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																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

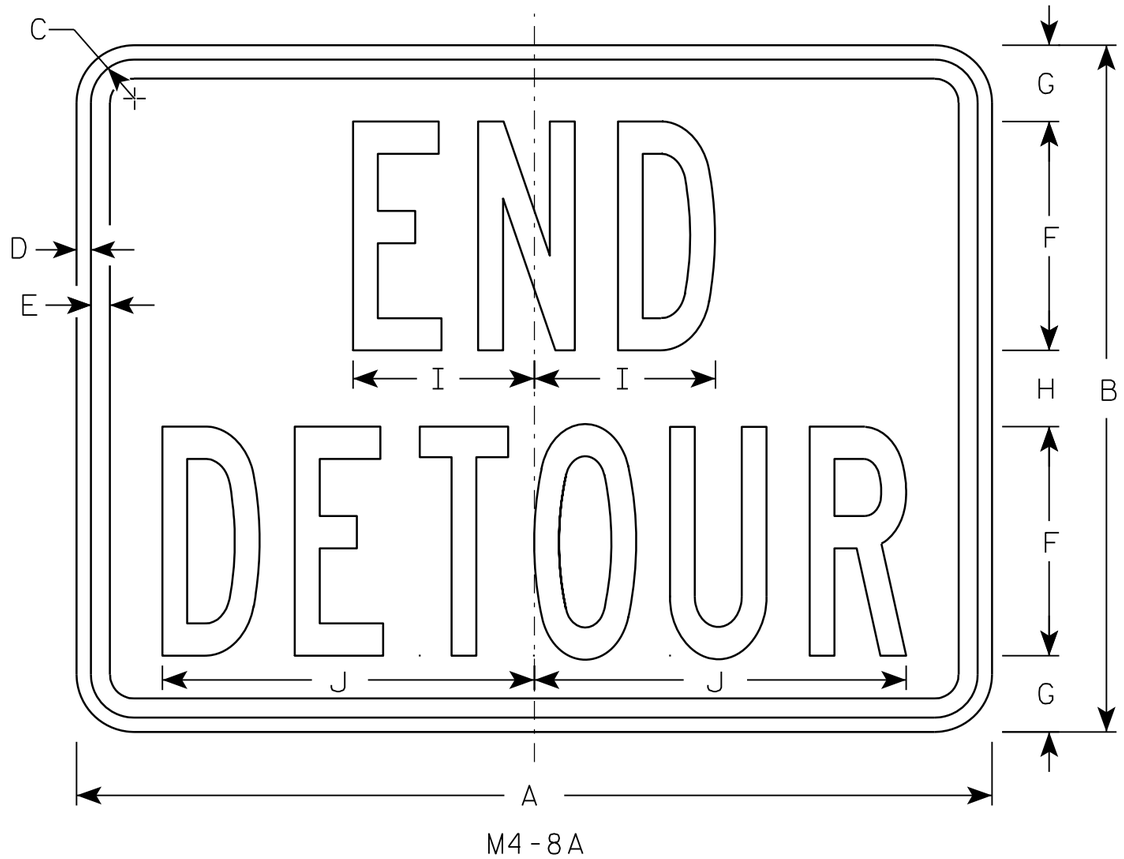
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 358	E



M4-8A

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 - B
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																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

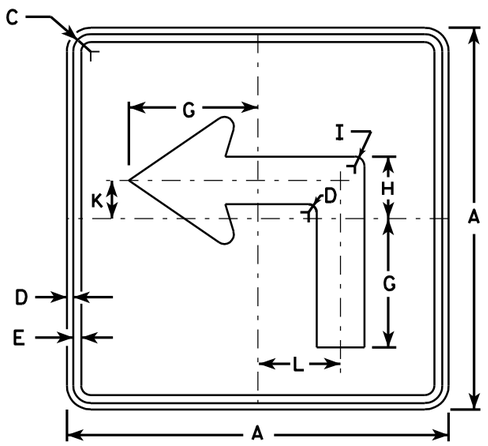
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

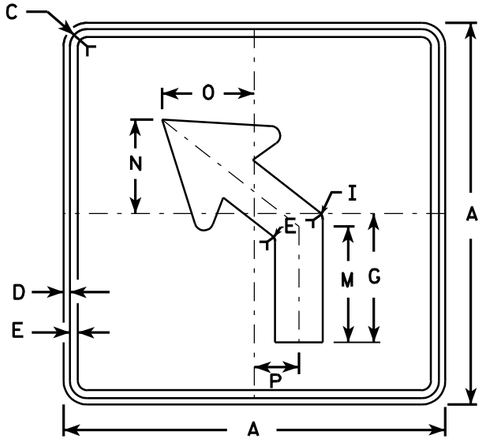
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

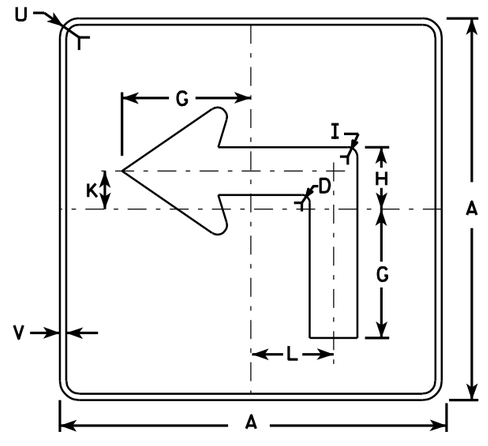
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 359	E



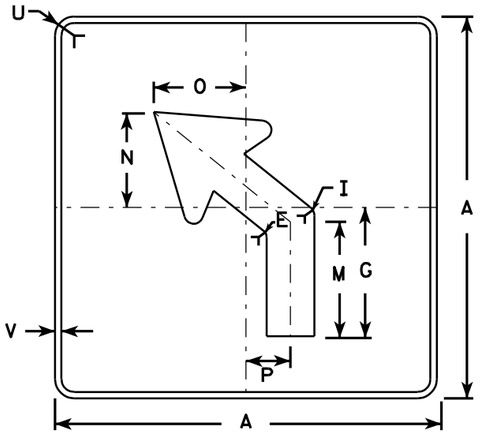
M5-1L
MK5-1L
MM5-1L
MO5-1L
MP5-1L
MR5-1L



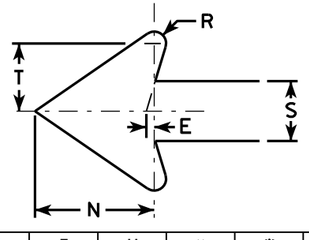
M5-2L
MK5-2L
MM5-2L
MO5-2L
MP5-2L
MR5-2L



MB5-1L
MG5-1L
MN5-1L



MB5-2L
MG5-2L
MN5-2L



NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 4
   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. M5-1 and M5-2 Background - White - Type H Reflective
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White - Type H Reflective
   MG5-1 and MG5-2 Background - Green
   Message - White - Type H Reflective
   MK5-1 and MK5-2 Background - Green
   Message - White Type H Reflective
   MM5-1 and MM5-2 Background - White - Type H Reflective
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White - Type H Reflective
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow - Type H Reflective
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

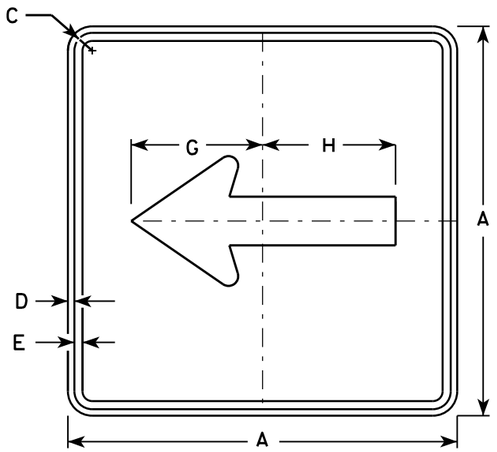
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

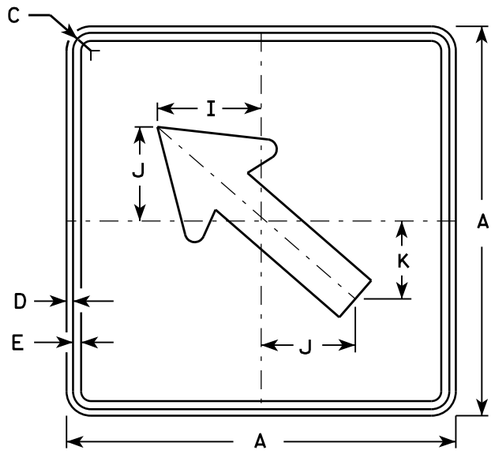
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/29/13 PLATE NO. M5-1.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 360 | E



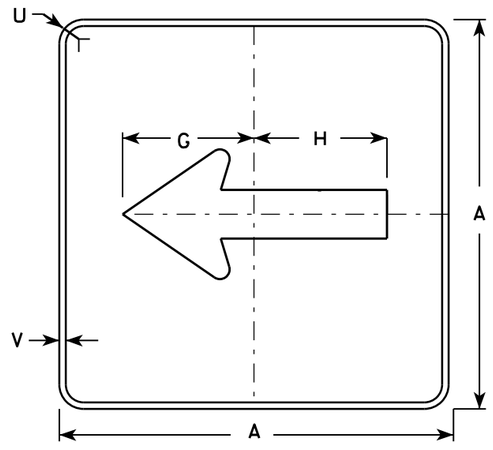
M6-1
MK6-1
MM6-1
MN6-1
MO6-1
MP6-1
MR6-1



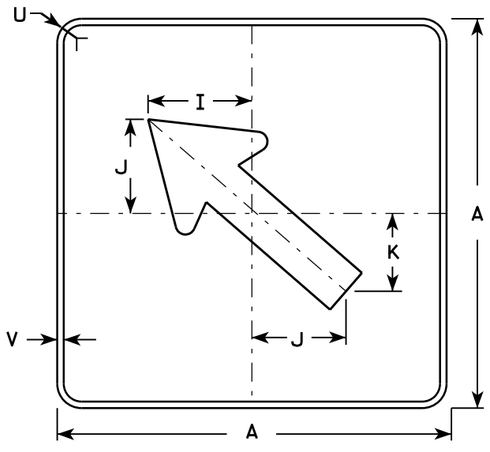
M6-2
MK6-2
MM6-2
MN6-2
MO6-2
MP6-2
MR6-2

NOTES

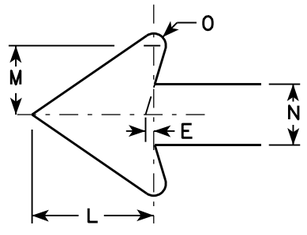
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MG6-1 and MG6-2 Background - Green
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1



MB6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN M6-1 & M6-2 SERIES

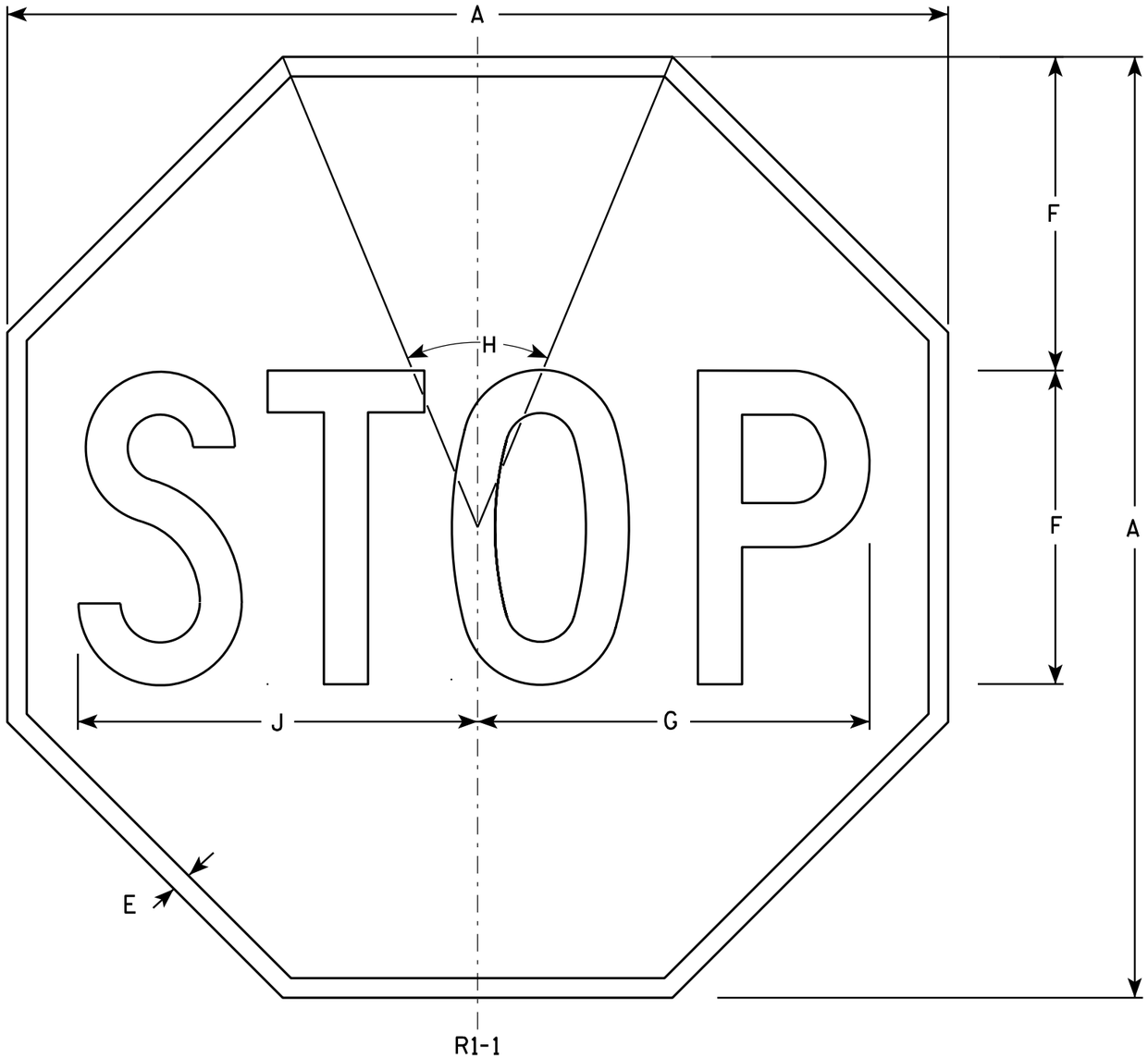
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/03/14 PLATE 361 M6-1.14

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 03-JUL-2014 14:28 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 11.675051:1.000000
WISDOT/CADDS SHEET 42



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
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

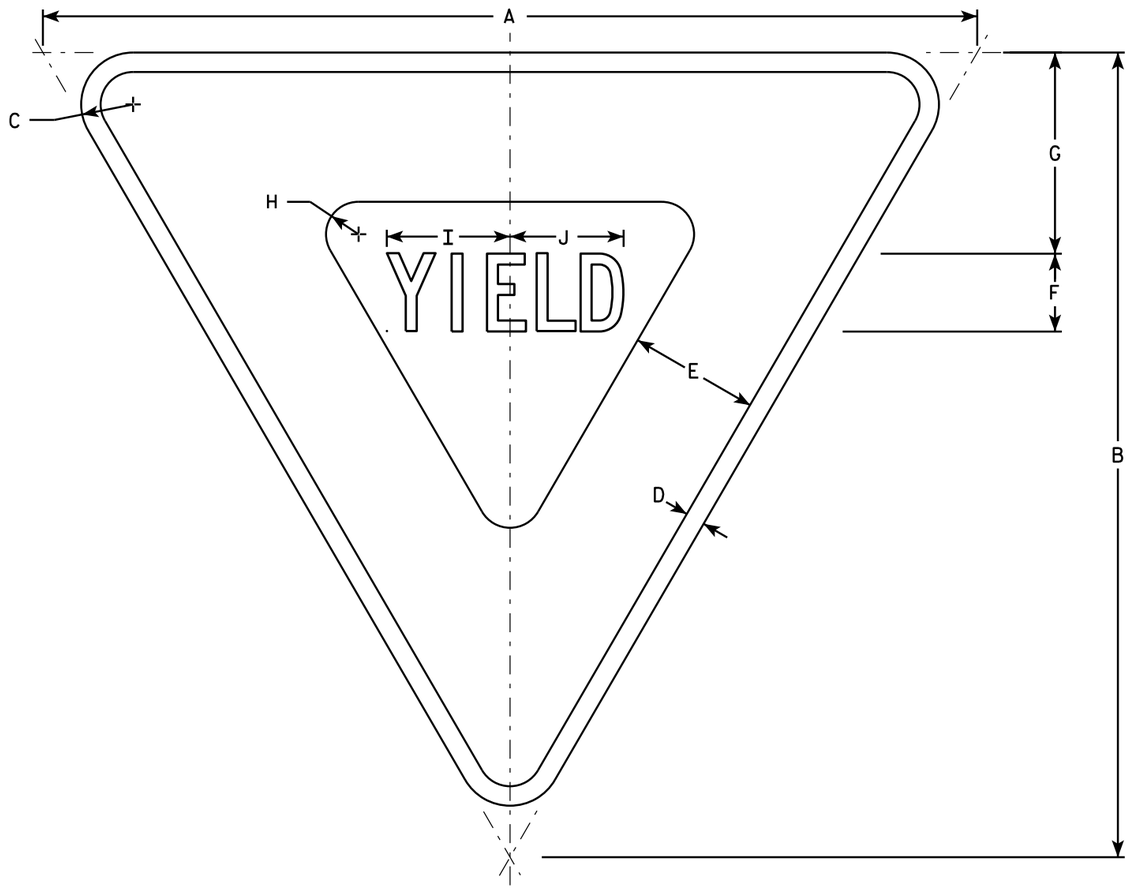
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 362	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

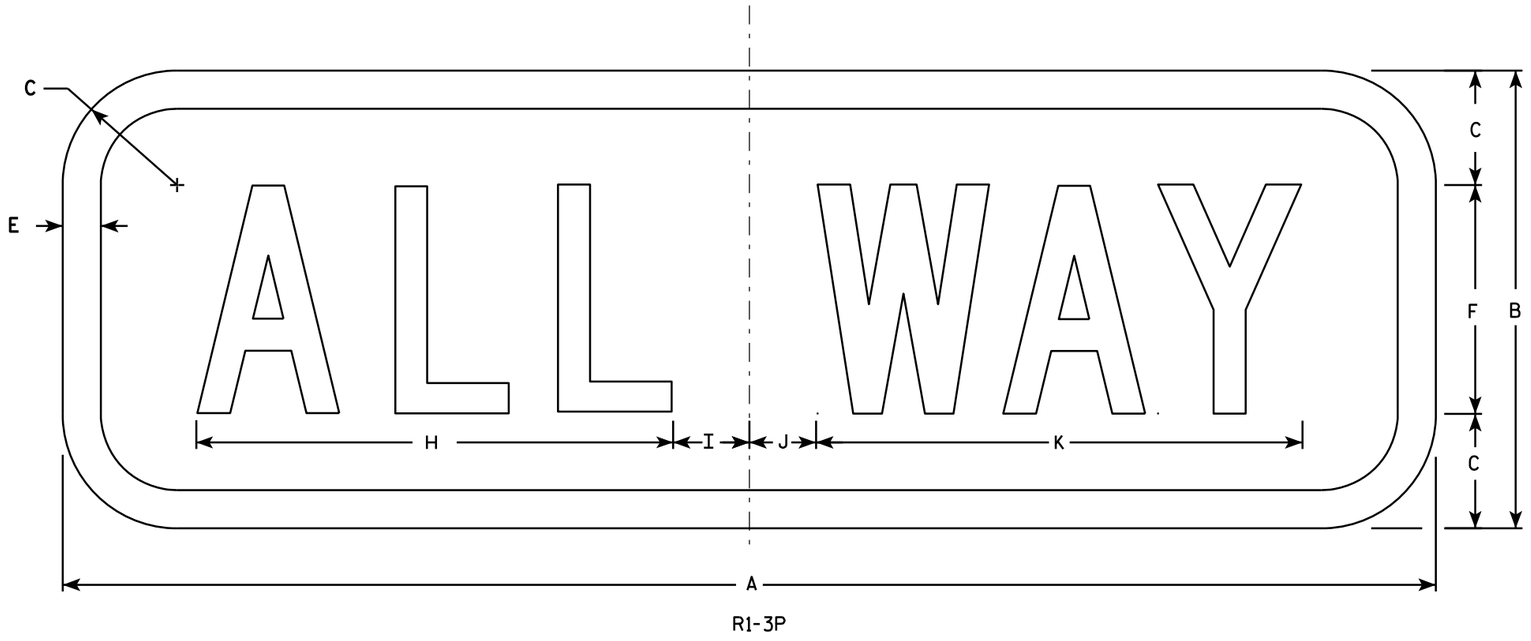
WISCONSIN DEPT OF TRANSPORTATION

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



R1-3P

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. 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	18	6	1 1/2		1/2	3		6 1/4	1 1/4	7/8	6 3/8																0.75
2S	18	6	1 1/2		1/2	3		6 1/4	1 1/4	7/8	6 3/8																1.5
2M	24	9	1 1/2		1/2	5		9 1/4	1 1/4	3/4	9 3/4																1.5
3	30	12	2 1/4		5/8	6		11	2 1/4	1 1/2	11 3/4																2.5
4																											
5																											

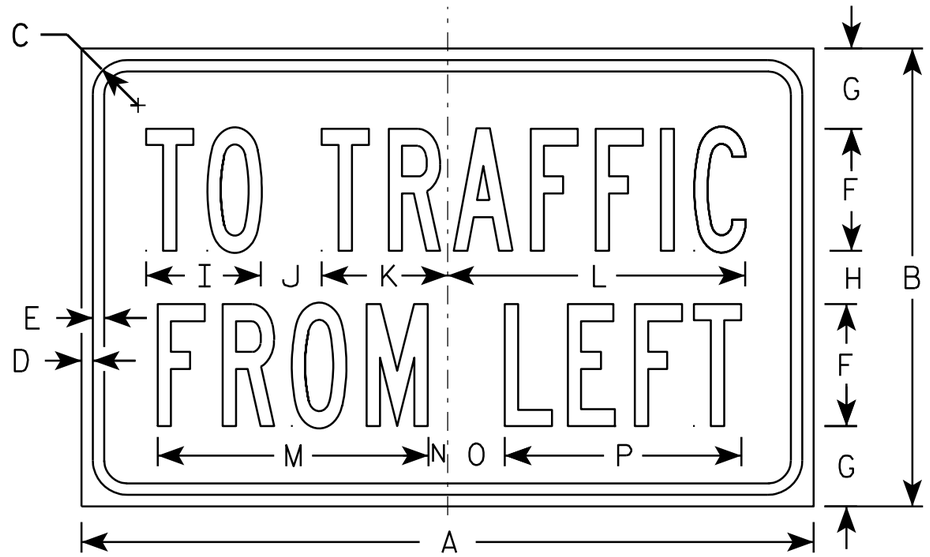
STANDARD SIGN
R1-3P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. R1-3P.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 364	E



R1-54

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 - B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
2M	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
3																											
4																											
5																											

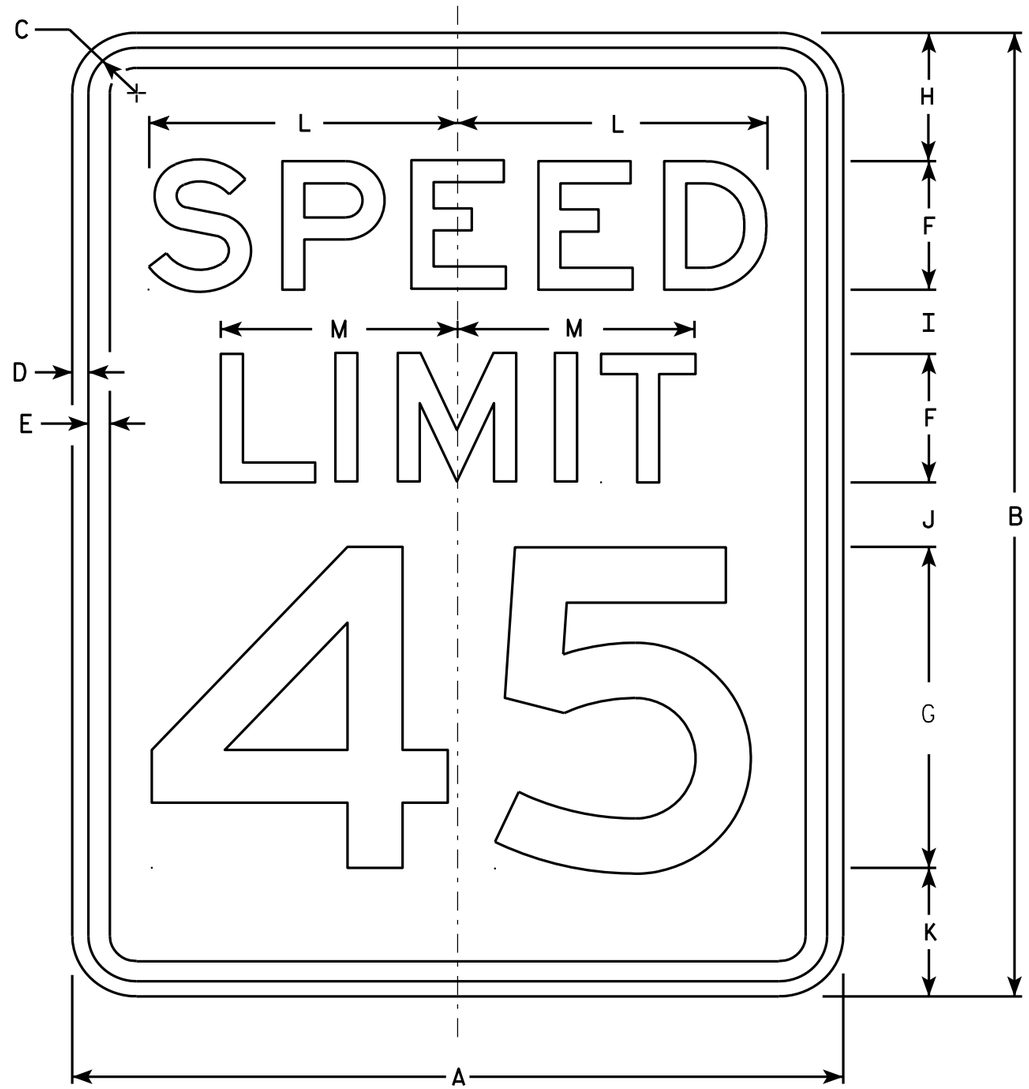
STANDARD SIGN
R1-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-54.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 365	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

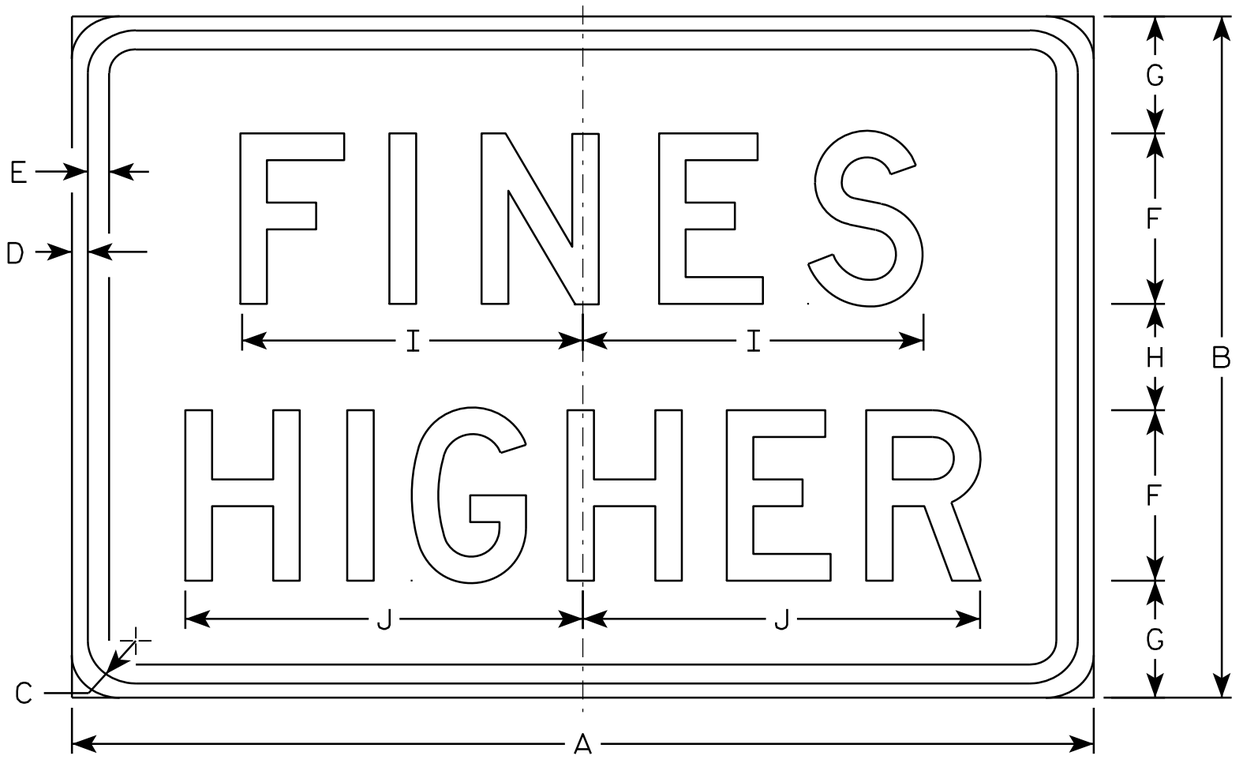
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 366 | E



R2-6P

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.

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	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
2M	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 3/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

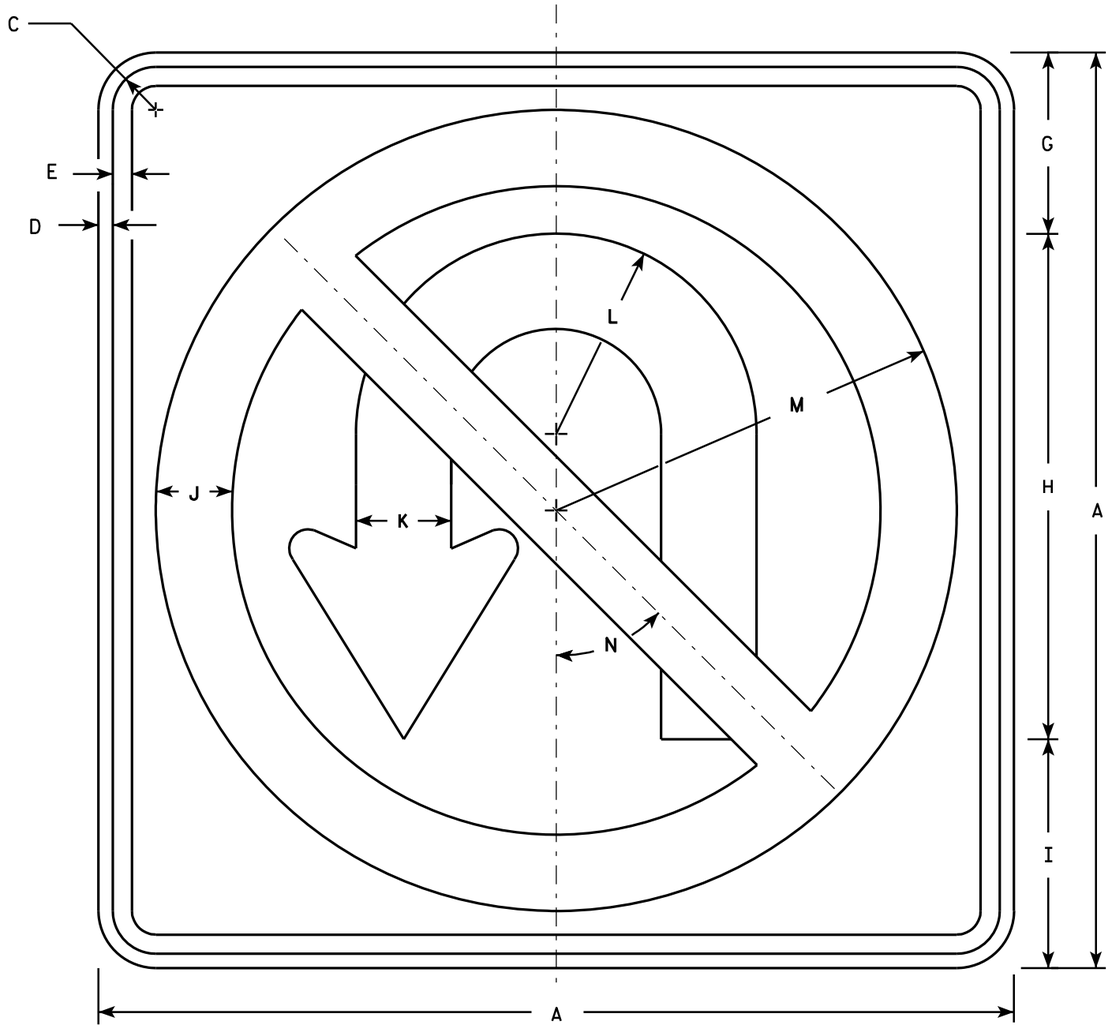
STANDARD SIGN
R2-6P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. R2-6P.2

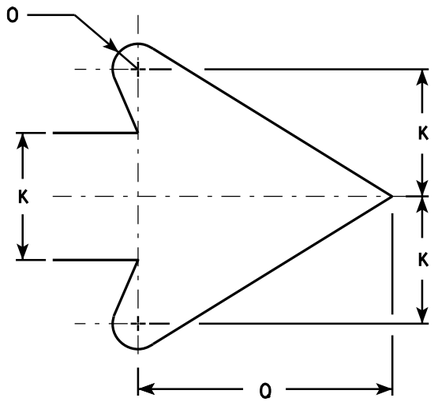
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 367 | E



R3-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
3	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
4	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
5	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0

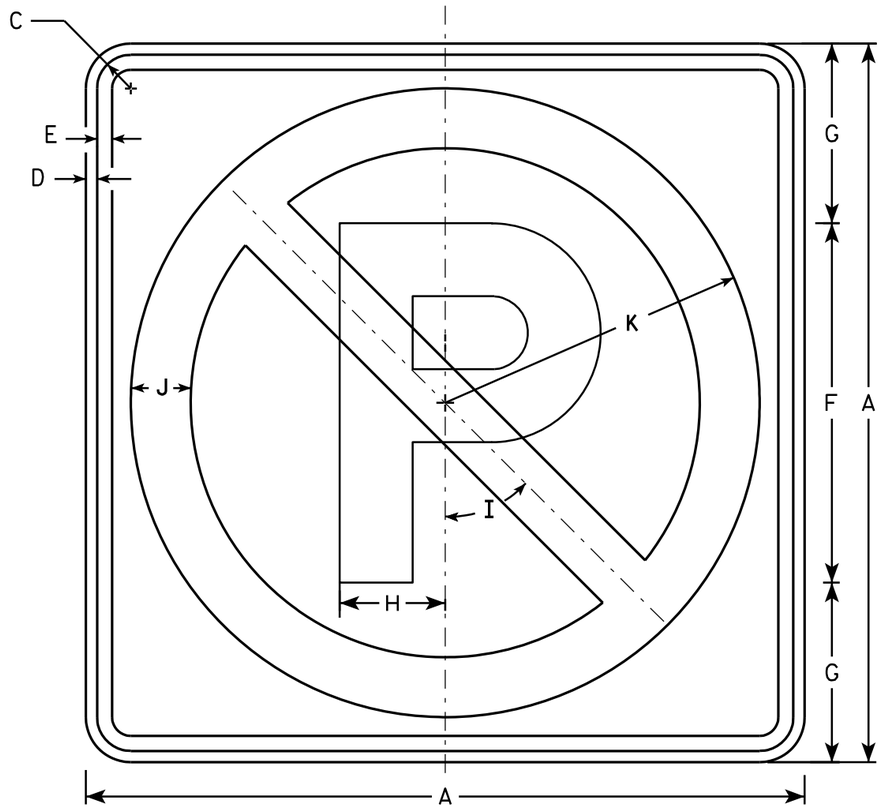
STANDARD SIGN
R3-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-4.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 368	E



R3-8A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Letter P are non reflective black, the circle with diagonal bar is reflective 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																											
2S	24		1 1/8	3/8	1/2	12	6	3 1/2	45°	2	10 1/2																4.0
2M	24		1 1/8	3/8	1/2	12	6	3 1/2	45°	2	10 1/2																4.0
3																											
4																											
5																											

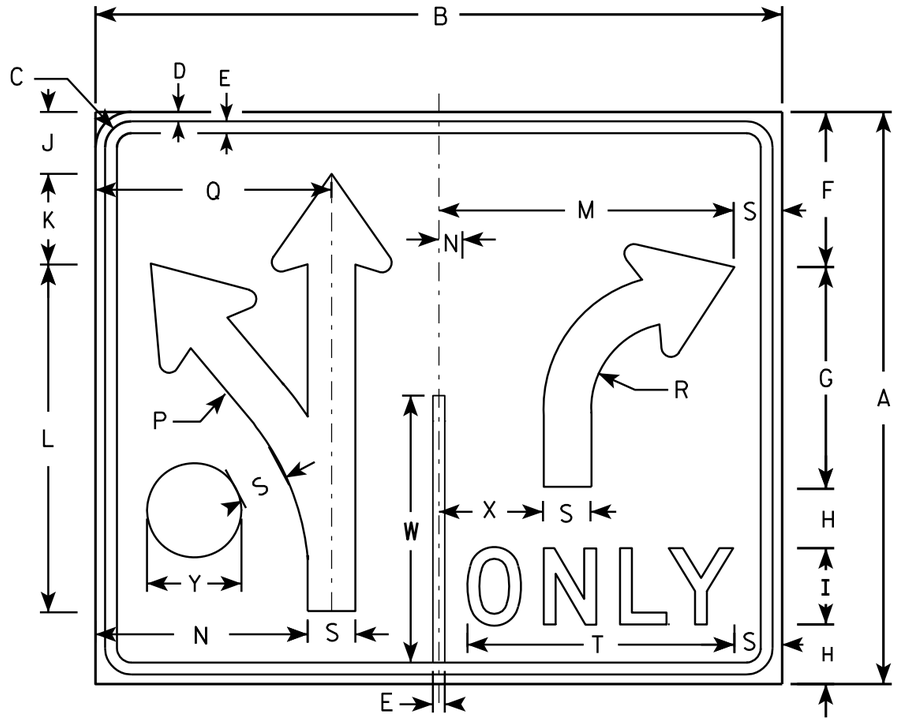
STANDARD SIGN
R3-8A

WISCONSIN DEPT OF TRANSPORTATION

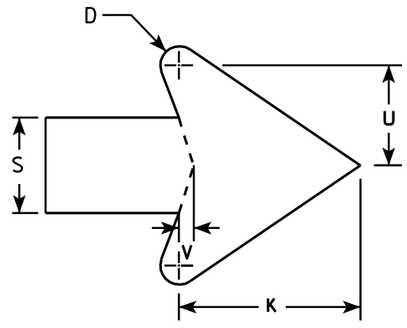
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/01/12 PLATE NO. R3-8A.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 369 | E



R3-8DD



ARROW DETAIL

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R3-8B & R3-8C is the same but reversed.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	15 1/2	1 1/4		13 1/4	12 3/8	4 1/2	2 1/2	14	2 5/8	3/8	14	5 1/4	4 1/4		7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	15 1/2	1 1/4		13 1/4	12 3/8	4 1/2	2 1/2	14	2 5/8	3/8	14	5 1/4	4 1/4		7.5
3																											

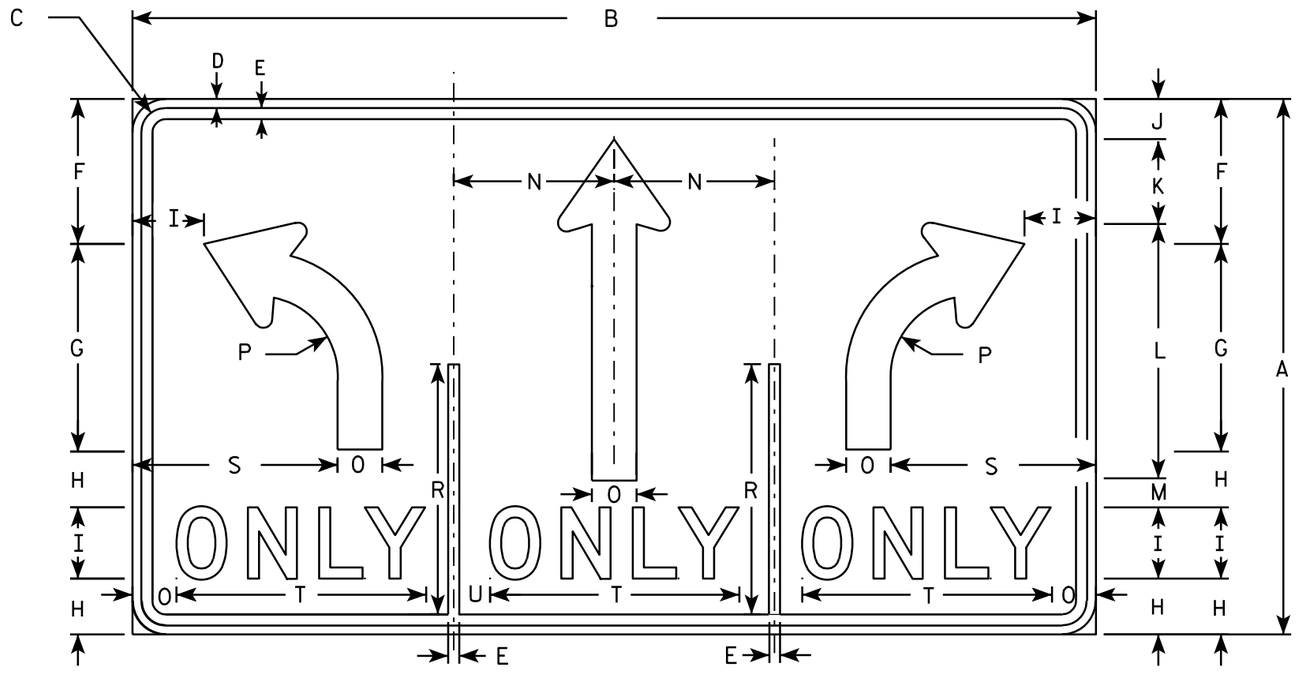
STANDARD SIGN
R3-8DD

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8DD.2

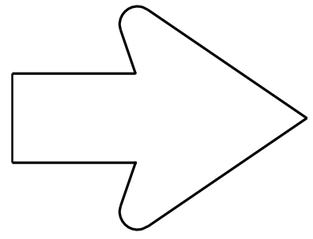
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 370	E



R3-8W

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SEE R3-8 FOR ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	9	2 1/2	4 1/2		14	11 1/2	14	2						11.25
2M	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	9	2 1/2	4 1/2		14	11 1/2	14	2						11.25
3																											
4	48	84	2 1/4	3/4	1	13	18 1/2	5 1/4	6	3 3/4	7	29 1/8	2 3/8	14	3 3/4	7 1/4		22 3/8	17 1/4	20 1/2	3 1/4						28.0
5	48	84	2 1/4	3/4	1	13	18 1/2	5 1/4	6	3 3/4	7	29 1/8	2 7/8	14	3 3/4	7 1/4		22 3/8	17 1/4	20 1/2	3 1/4						28.0

STANDARD SIGN
R3-8W

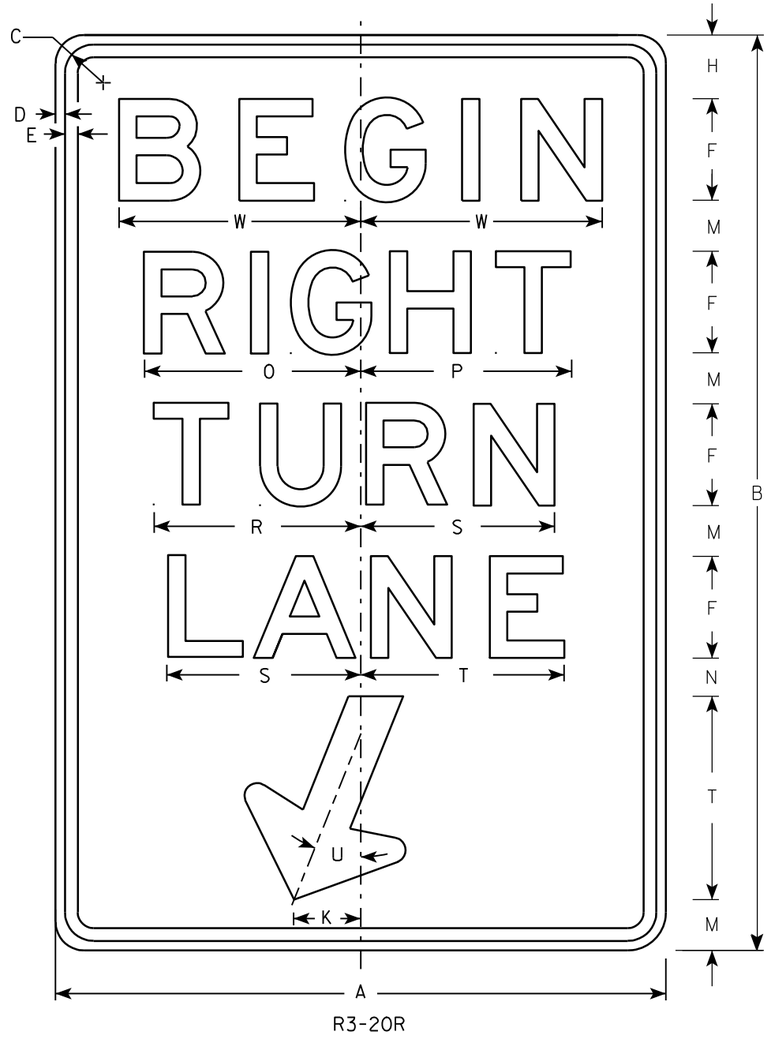
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-8W.4

PROJECT NO:

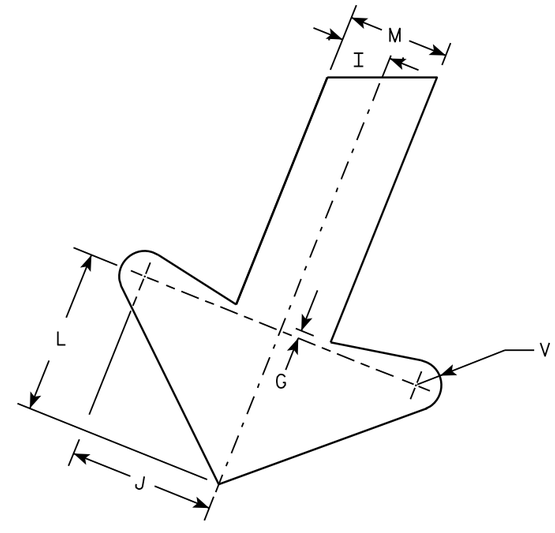
SHEET NO: 371 E



R3-20R

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	8 1/2	8 1/4		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	8 1/2	8 1/4		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	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

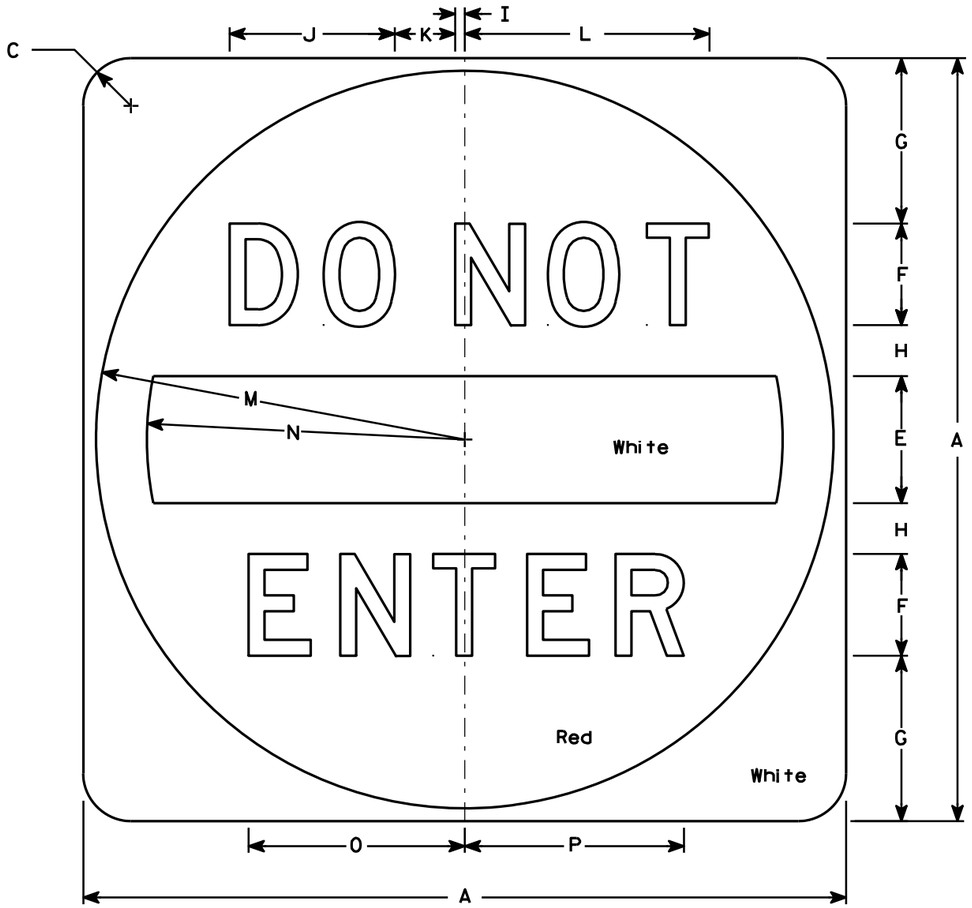
STANDARD SIGN
R3-20R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20R.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 372 | E



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors 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	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											6.26
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

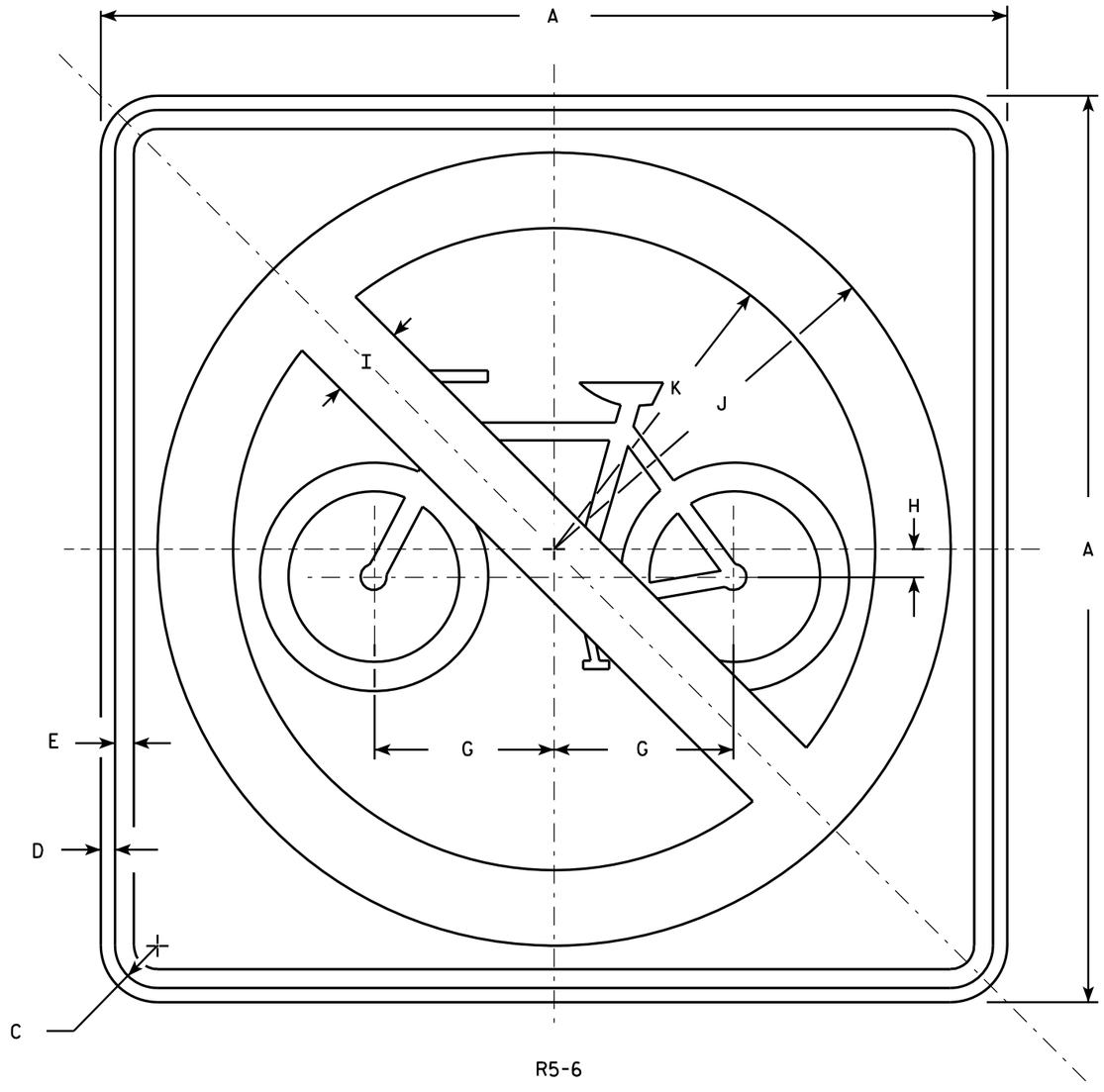
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 373 | E



R5-6

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Circle & Diagonal - Reflectorized Red.
   Bicycle Symbol & Border - Non-reflective Black.

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	3/8	1/2		4 3/4	3/4	2	10 1/2	8 1/2																4.0
2M	24		1 1/8	3/8	1/2		4 3/4	3/4	2	10 1/2	8 1/2																4.0
3	30		1 3/8	1/2	5/8		5 7/8	7/8	2 1/2	13 1/8	10 5/8																6.25
4	36		1 5/8	5/8	3/4		7 1/8	1 1/8	3	15 3/4	12 3/4																9.0
5	48		2 1/4	3/4	1		9 1/2	1 1/2	4	21	17																16.0

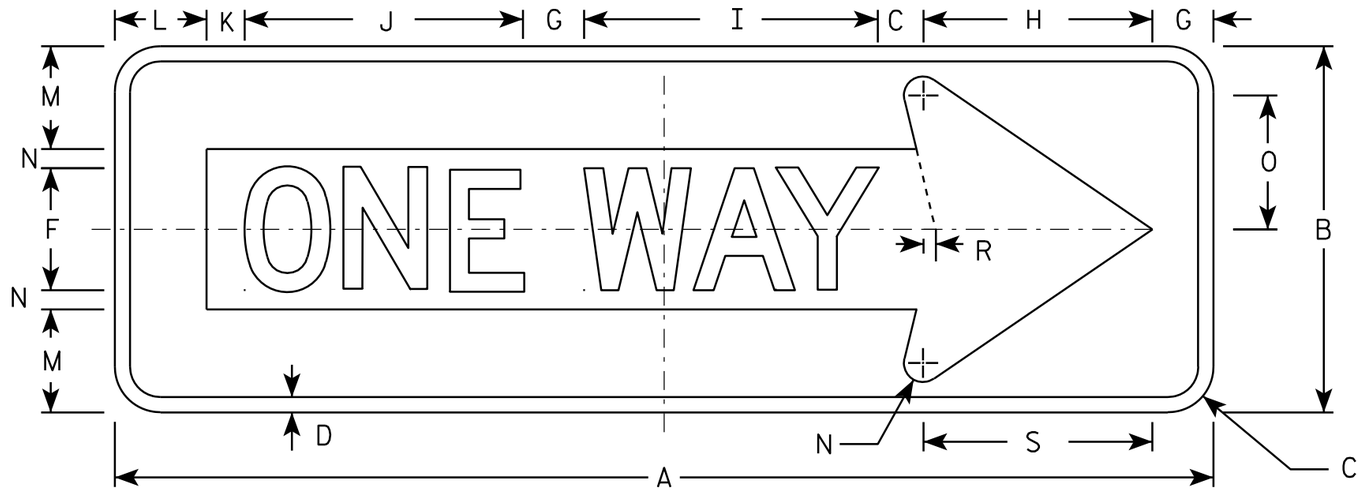
STANDARD SIGN
R5-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-6.6

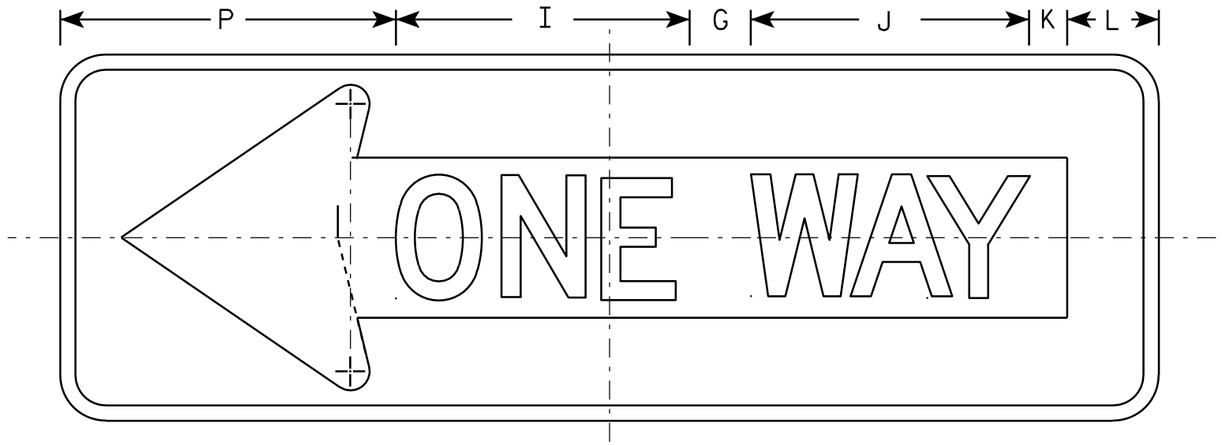
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 374	E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
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.



R6-1L

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	12	1 ½	½		4	2	7 ½	9 ⅝	9 ⅛	1 ¼	3	3 ⅜	⅝	4 ⅜	11		⅜	7 ½								3.0
2M	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
3	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
4	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
5																											

STANDARD SIGN
R6-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R6-1.2

PROJECT NO:

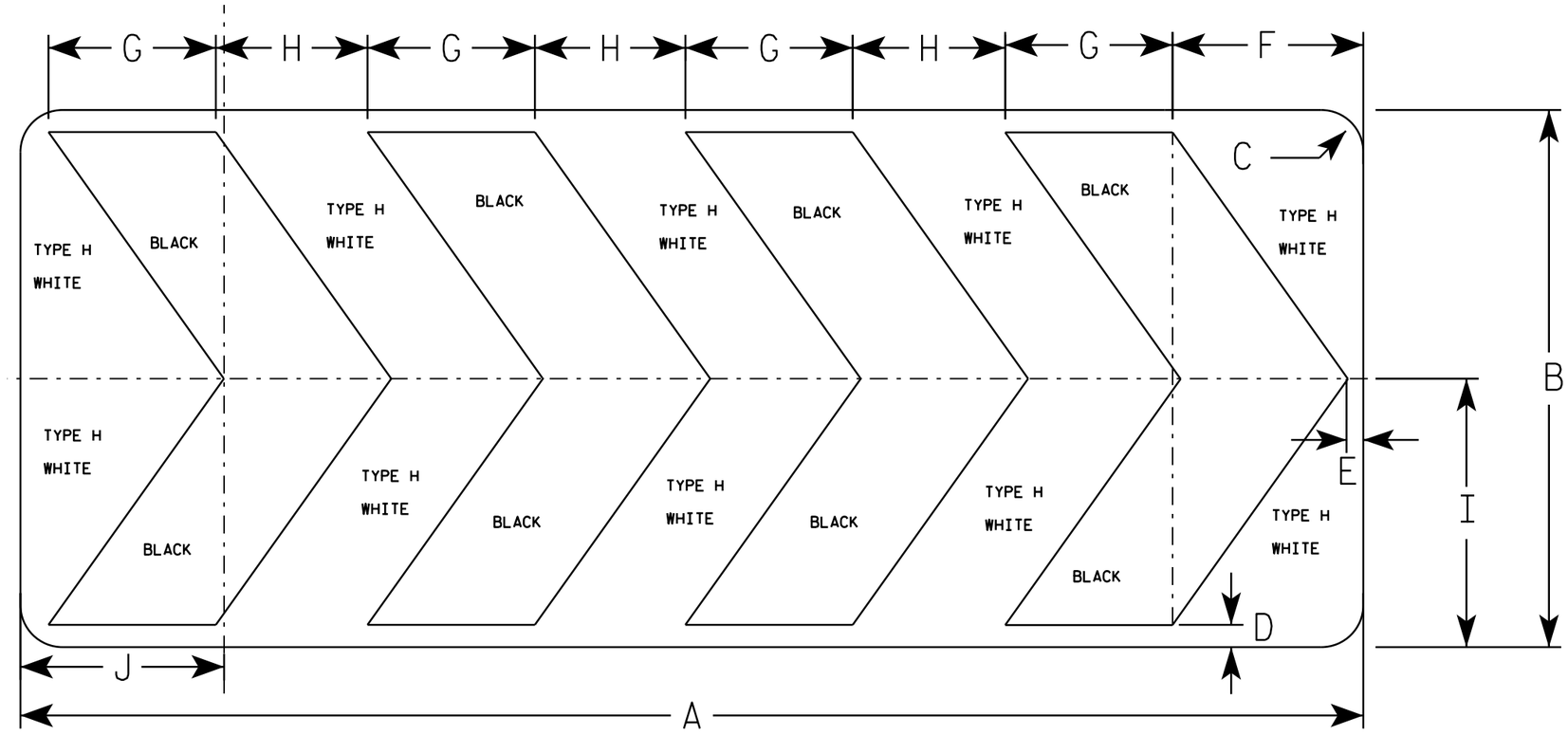
SHEET NO: 375 E

7

7

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   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.



R6-4B

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	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

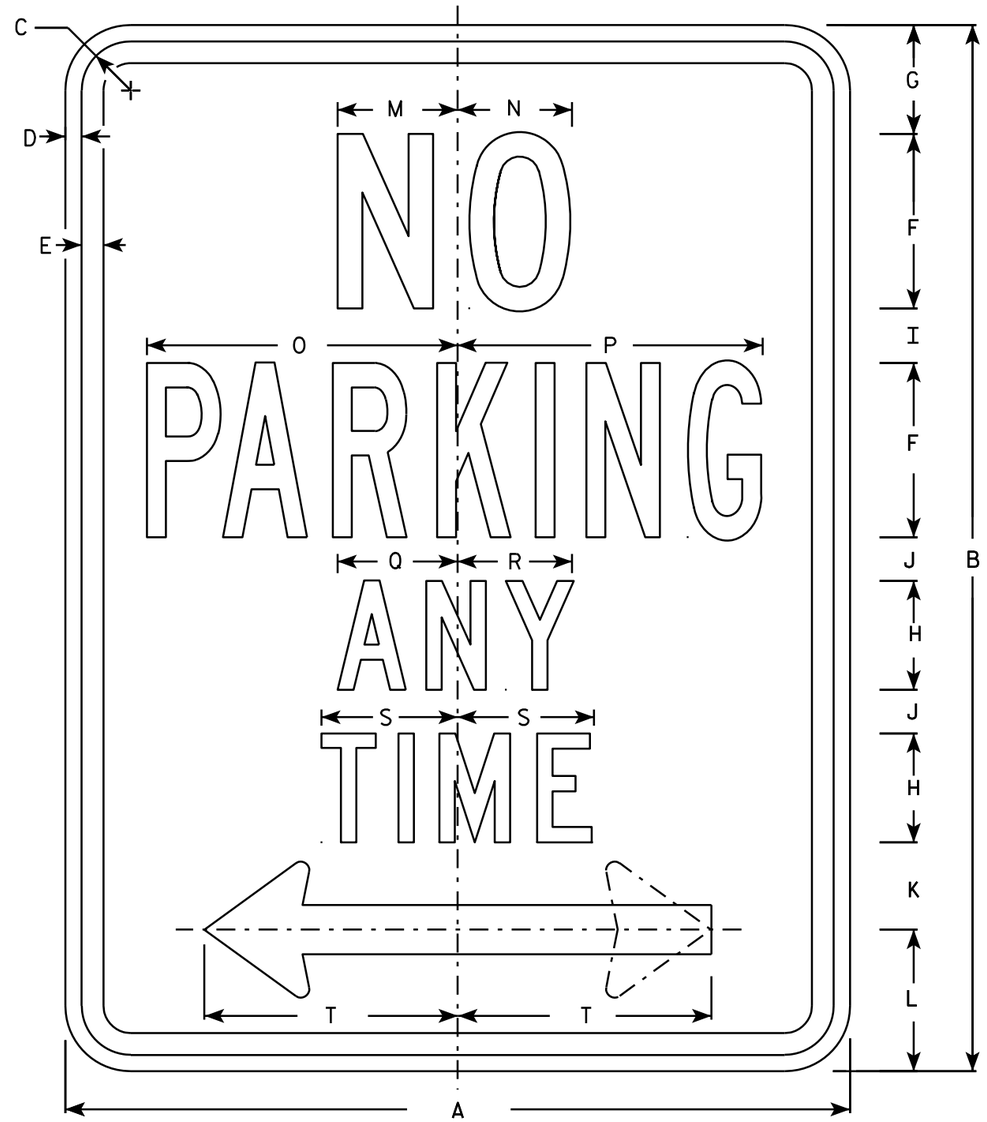
STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/14 PLATE NO. R6-4.3

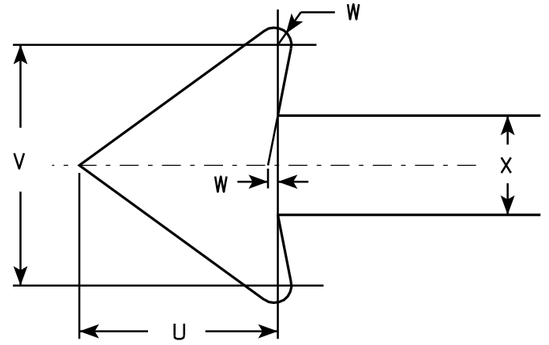
PROJECT NO: SHEET NO: E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

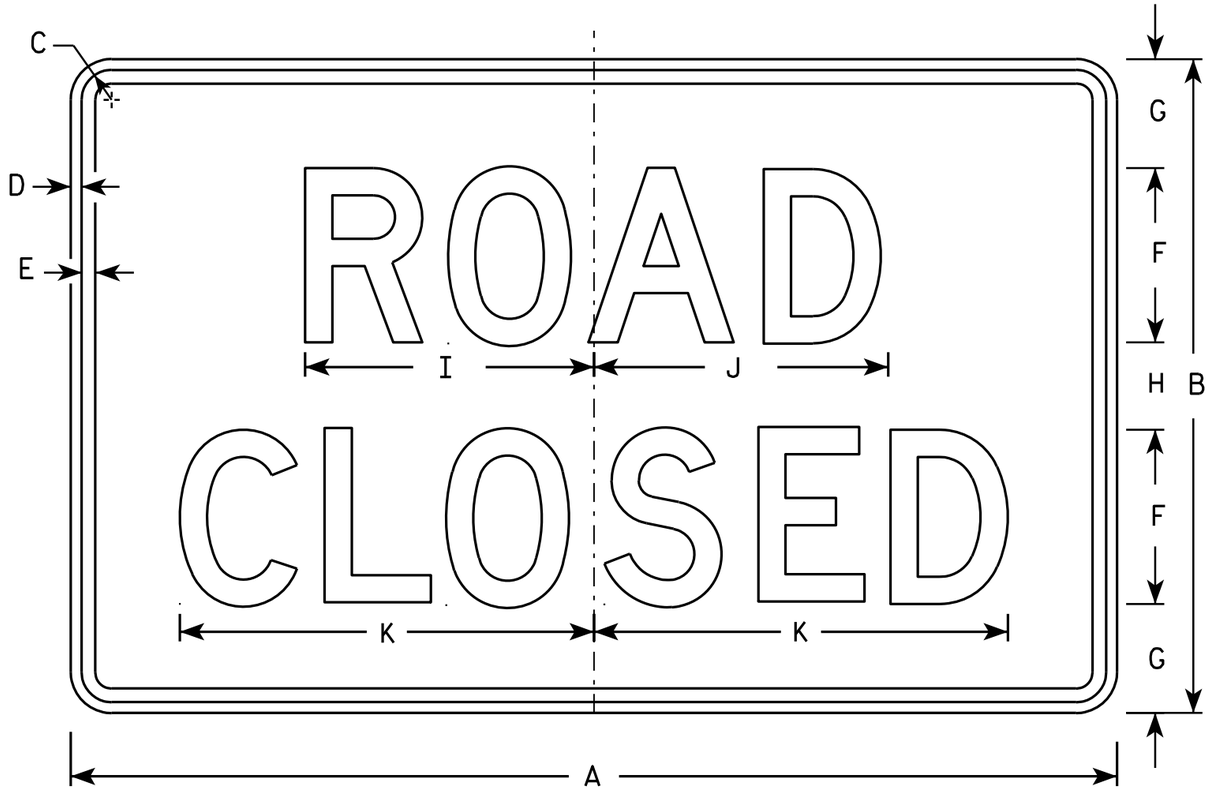
STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

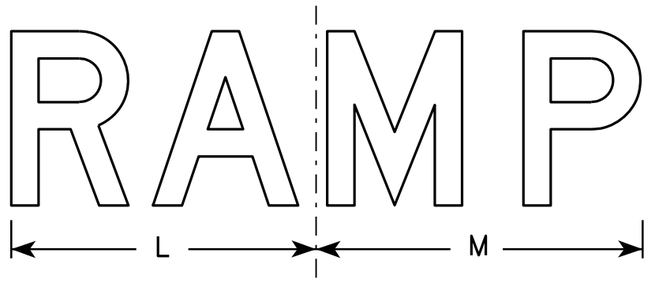
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 377 | E



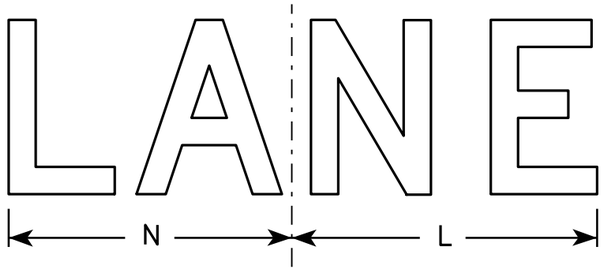
R11-2

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

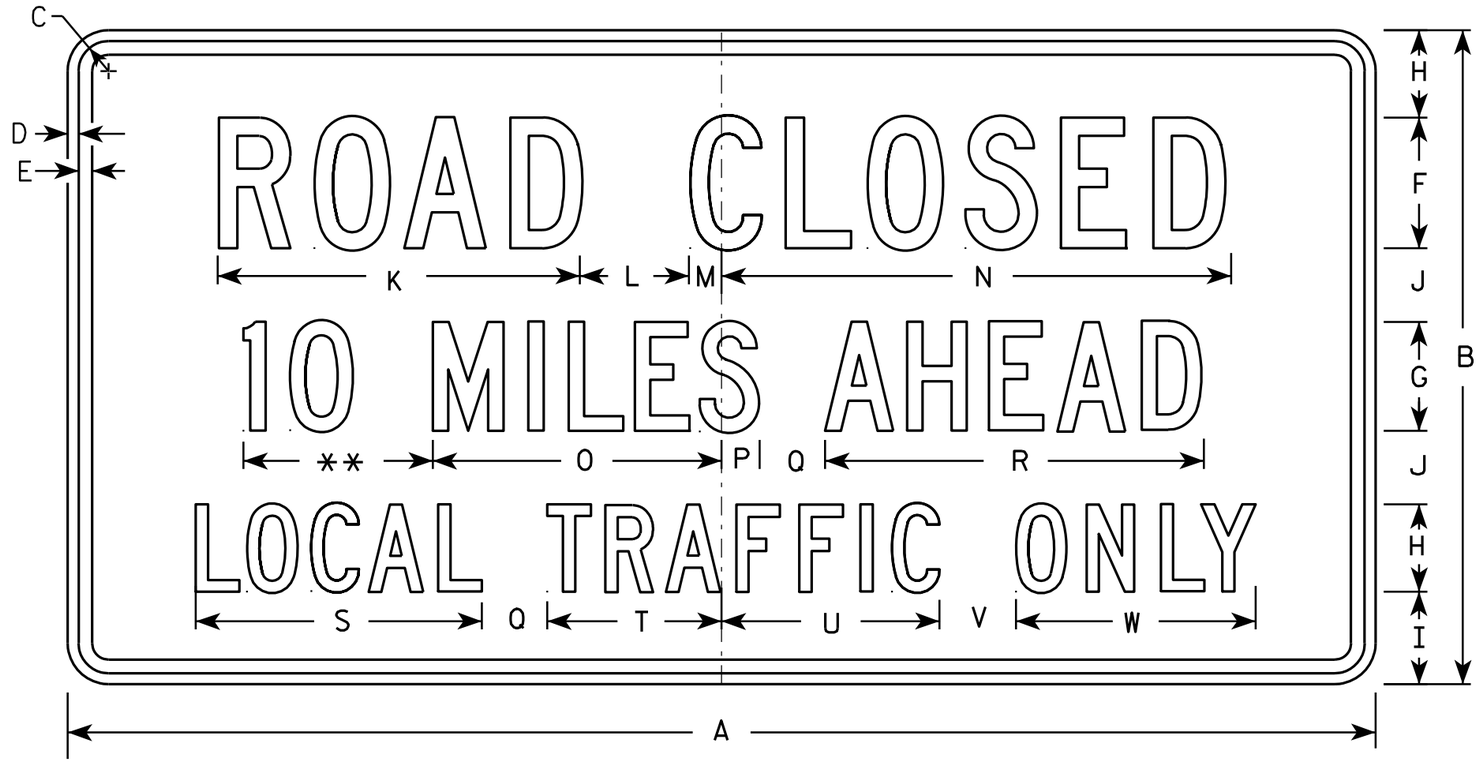
STANDARD SIGN
R11-2

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: 378	E



R11-3

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 - 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. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

** See Note 5

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	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
3																											
4																											
5																											

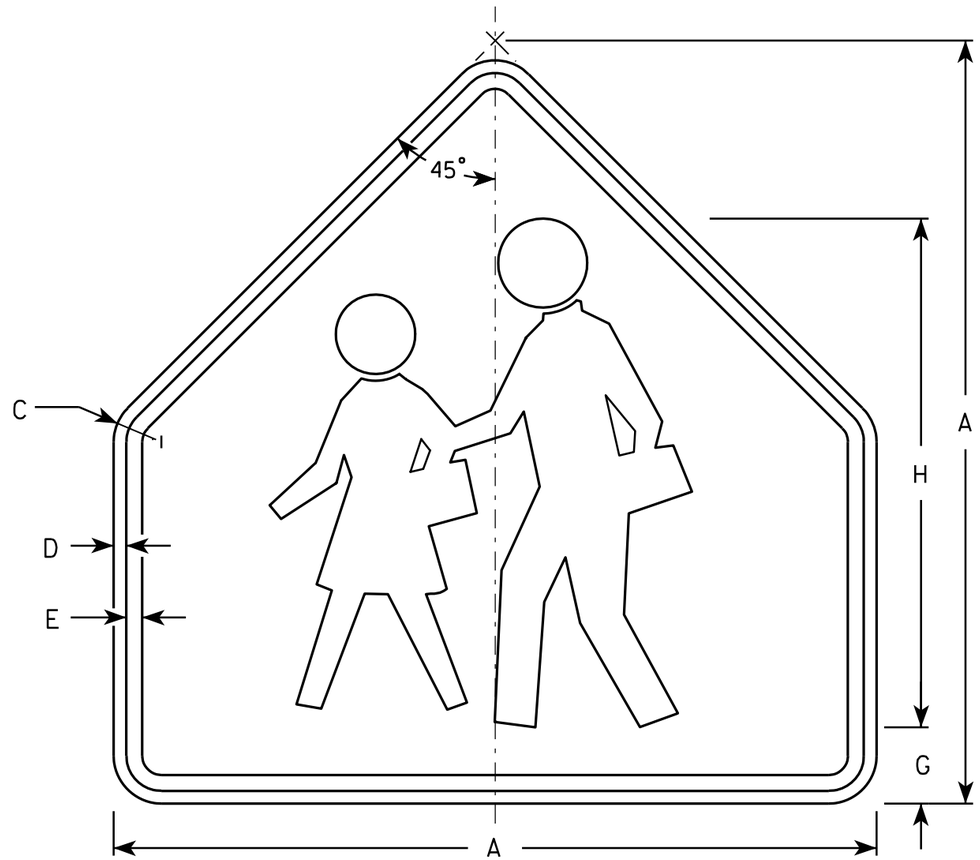
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-3.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 379 | E



S1-1

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-Green
   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	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

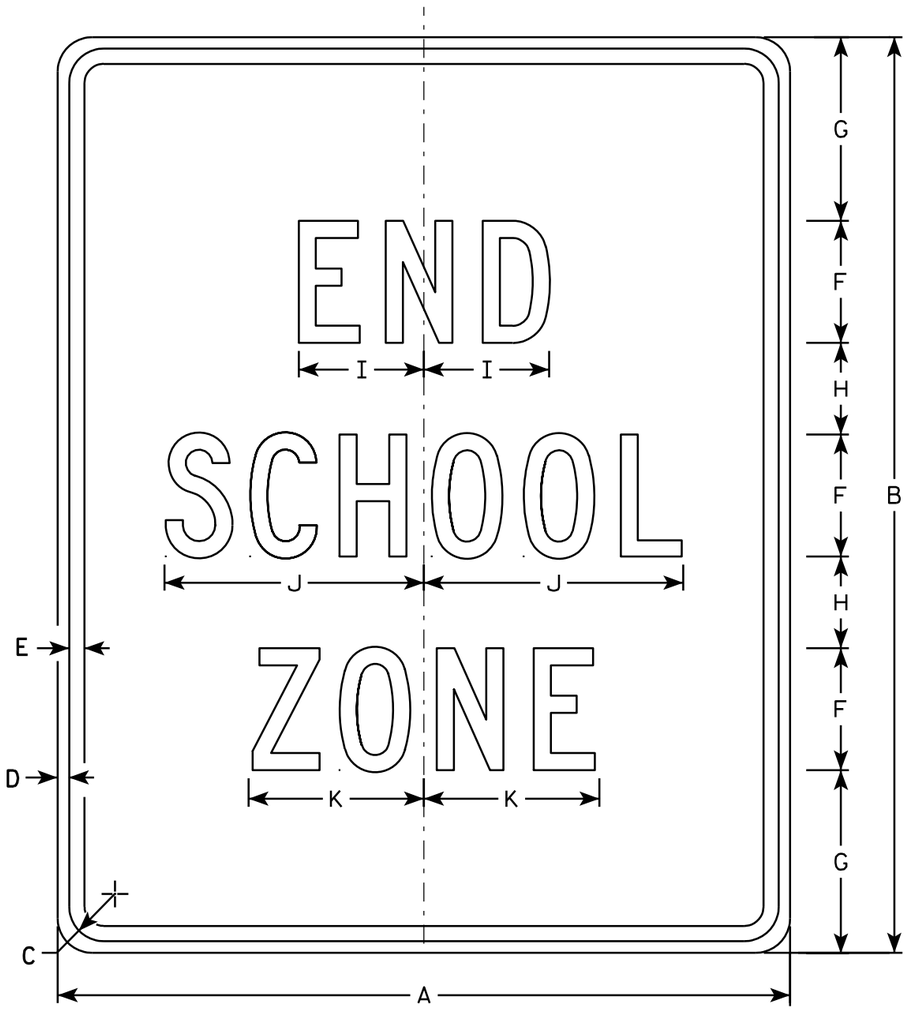
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 380	E



S5-2

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 - 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																											
2	24	30	1 1/8	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
3	36	42	1 5/8	5/8	3/4	6	7	5	6 1/8	12 5/8	8 5/8																10.5
4																											
5																											

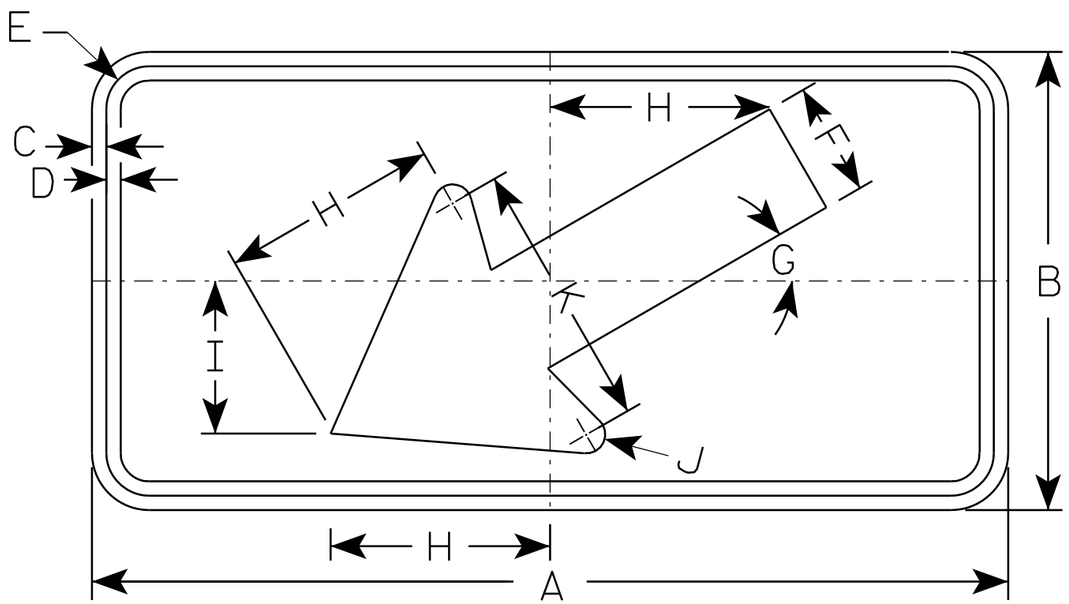
STANDARD SIGN
S5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/8/11 PLATE NO. S5-2.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 381 | E



S16-7L

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-Green
   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. S16-7R are the same as S16-7L 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	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2S	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8.0
5																											

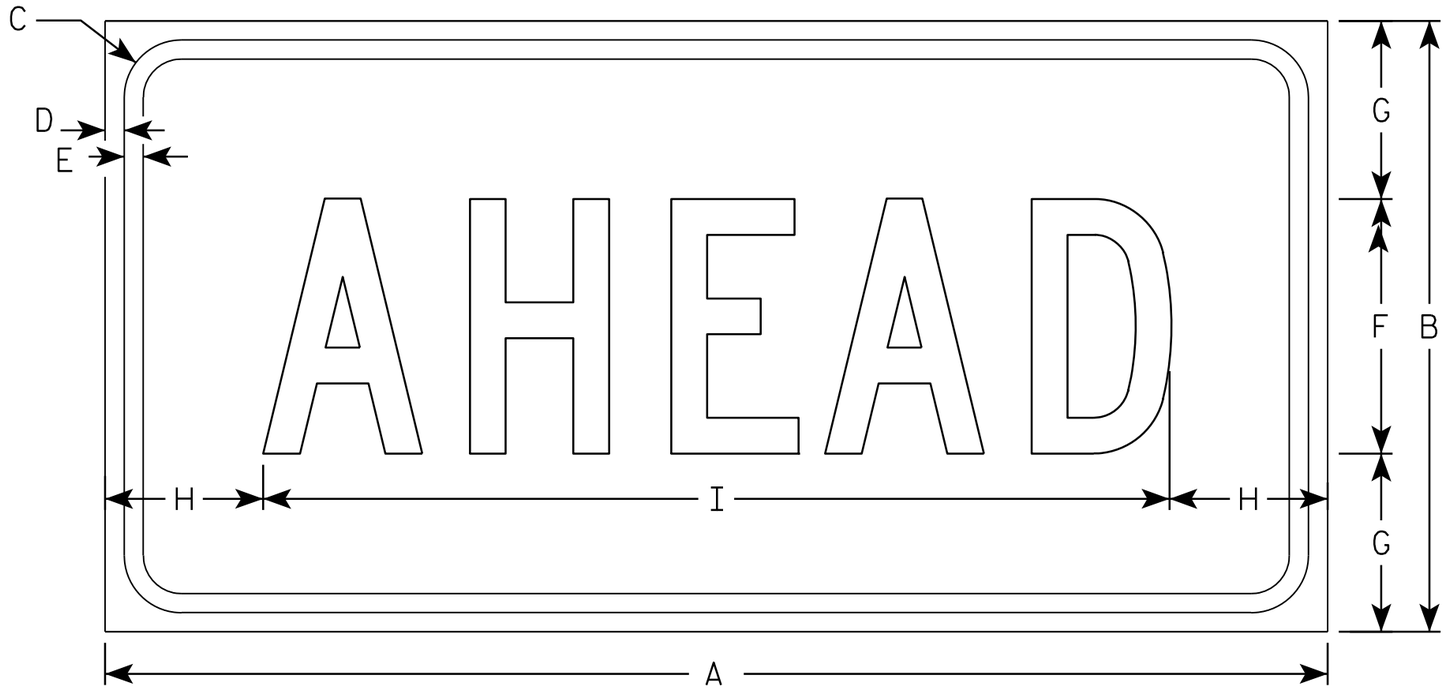
STANDARD SIGN
S16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-7.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 382 | E



S16-9P

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-Green
   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	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
S16-9P

WISCONSIN DEPT OF TRANSPORTATION

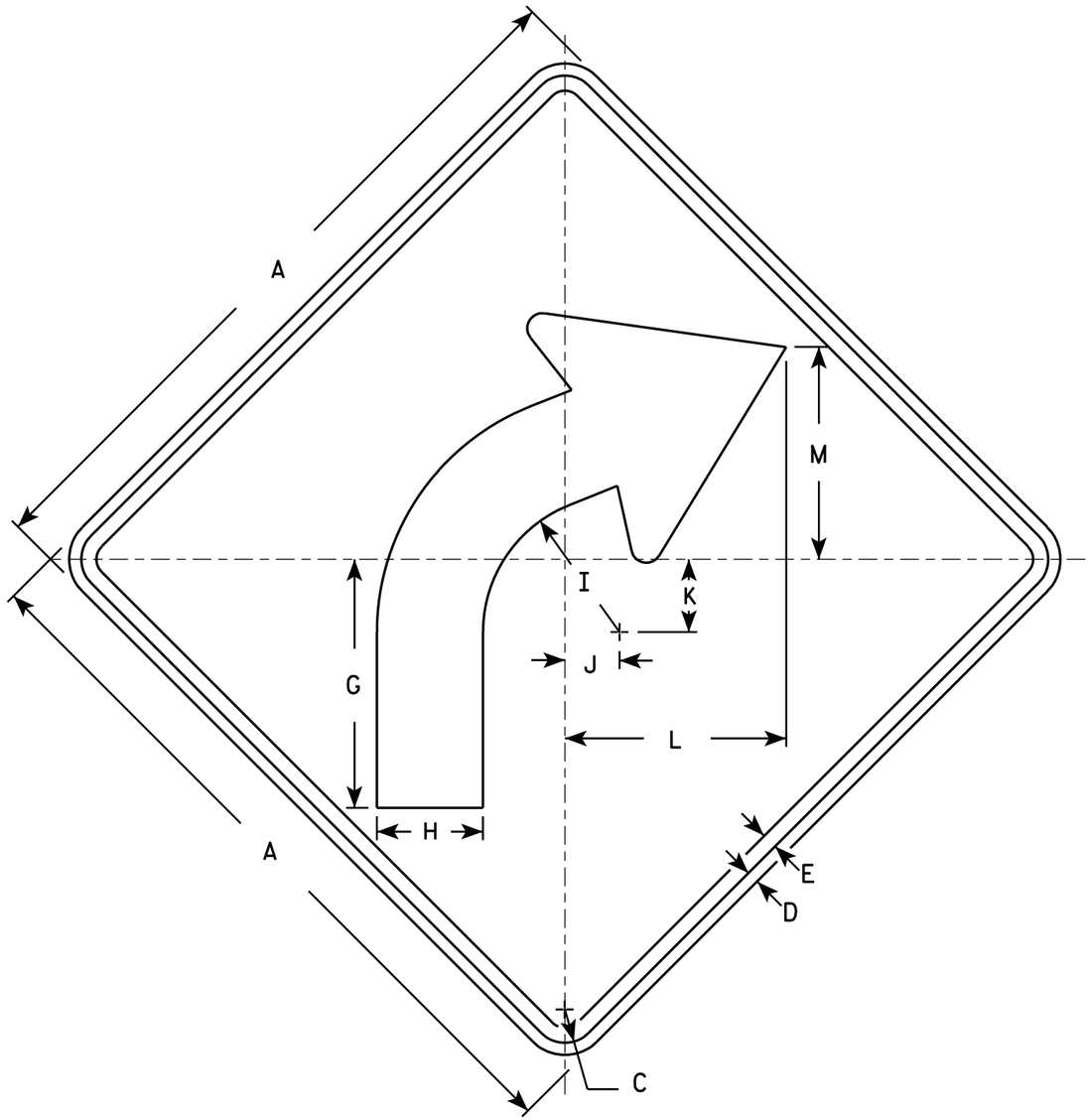
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-9P.1

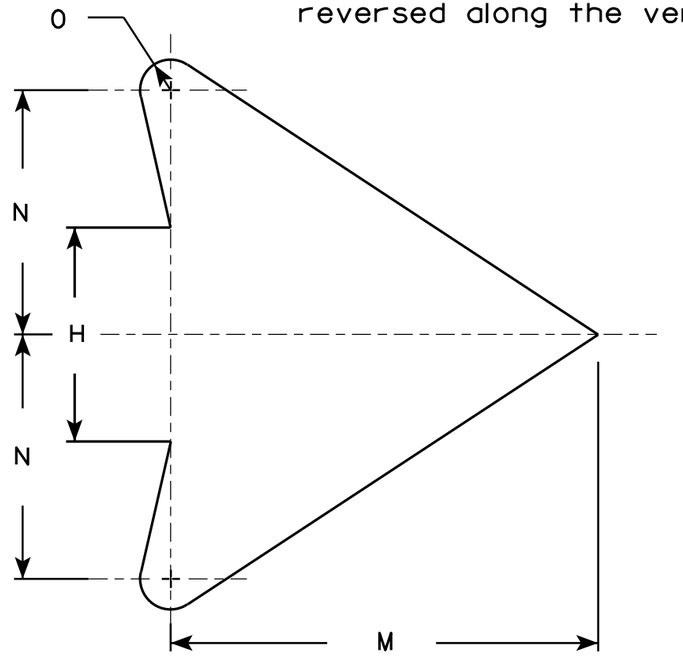
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 383 | E

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.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

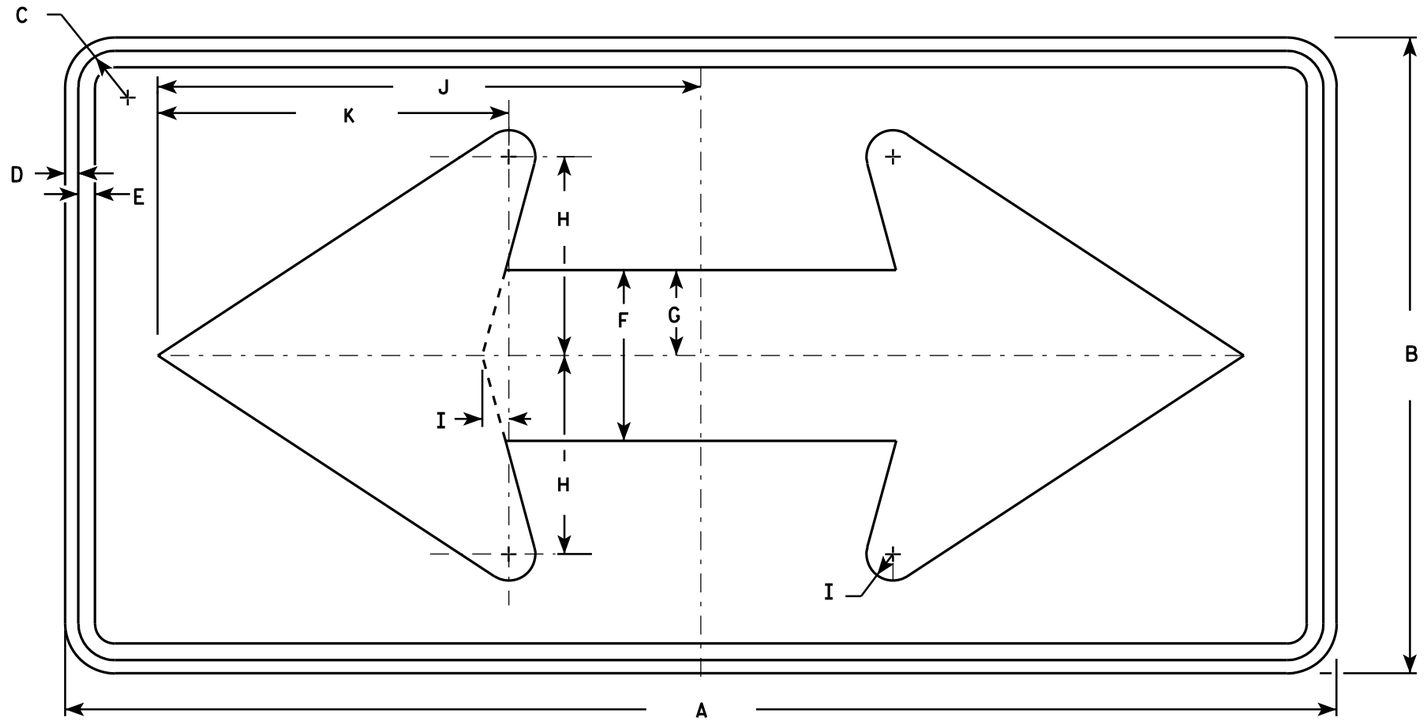
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 384	E



W1-7

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.

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	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

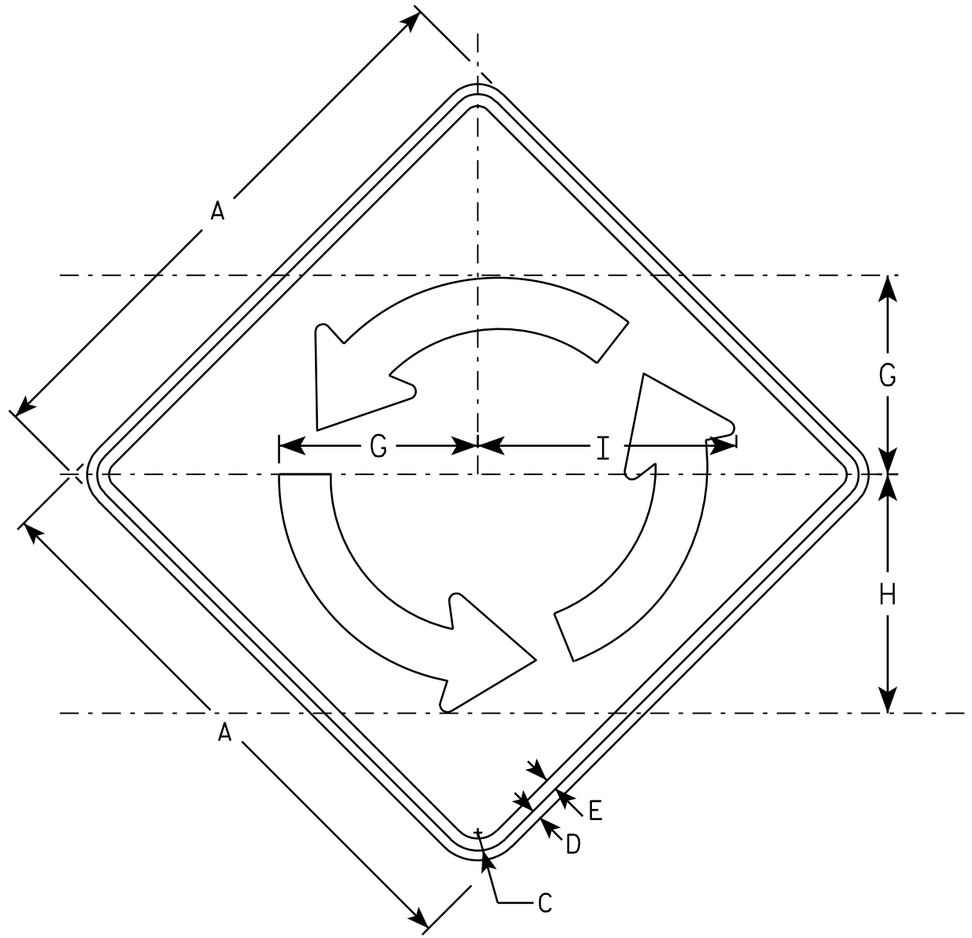
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

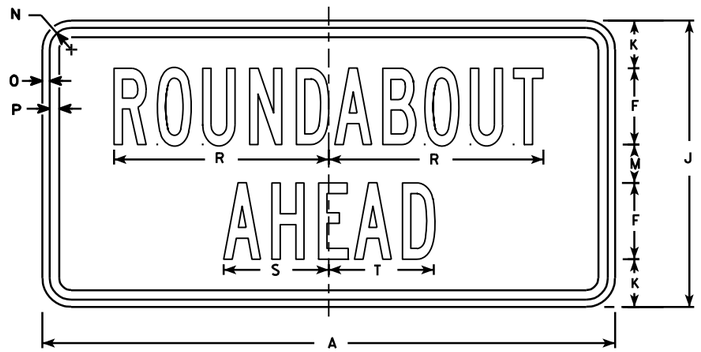
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 385 | E



W2-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Message - BLACK
3. Message Series - B
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.



W2-6P

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	W2-6 Area sq. ft.	W2-6P Area sq. ft.
1																										
2S	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
2M	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
3	36		1 5/8	5/8	3/4	5	12 1/2	15	16 1/4	18	2 5/8		2 3/4	1 1/8	3/8	1/2		14	7	6 3/4					9.00	4.50
4	48		2 1/4	3/4	1	6	16 5/8	20	16 1/4	24	4 3/8		3 5/8	1 3/8	1/2	5/8		17	8 1/4	8 1/4					16.0	8.0
5																										

STANDARD SIGN
W2-6

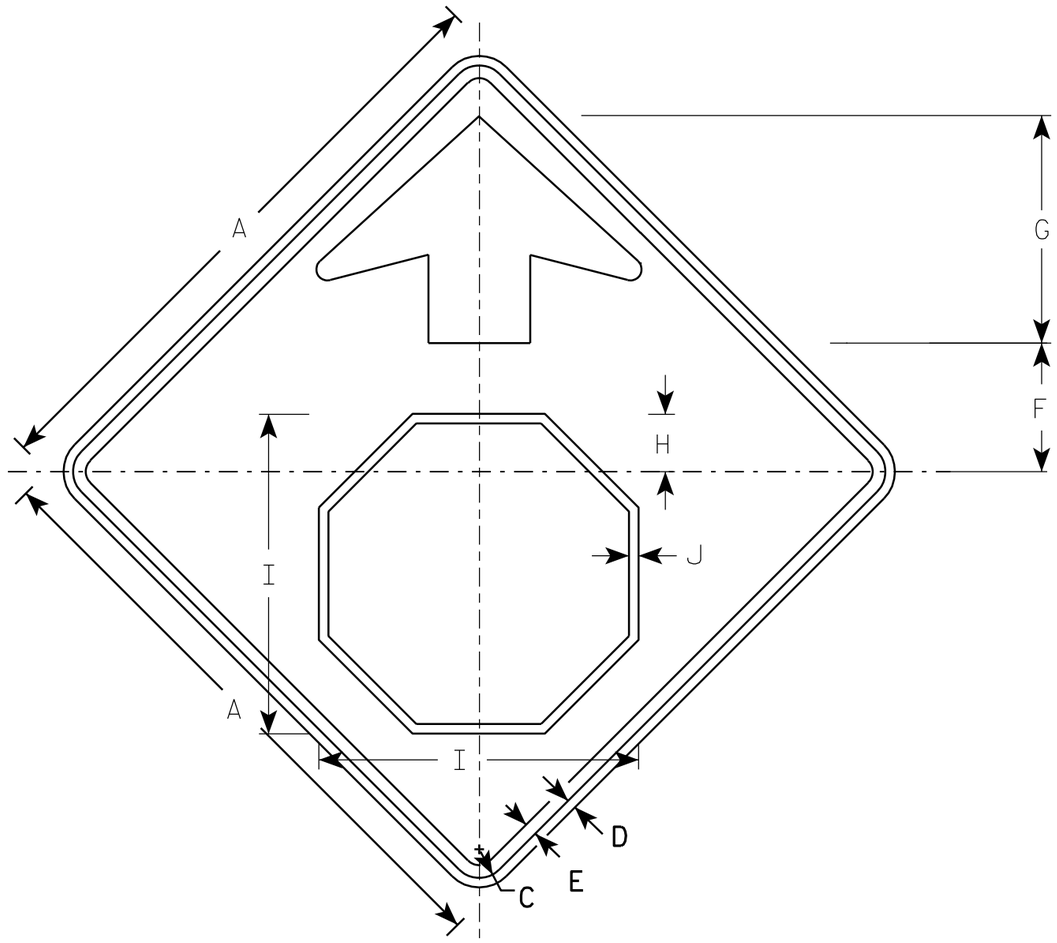
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/29/12 PLATE NO. W2-6.5

PROJECT NO:

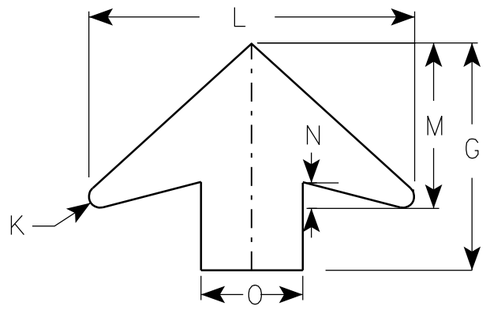
SHEET NO: 386 E



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



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	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

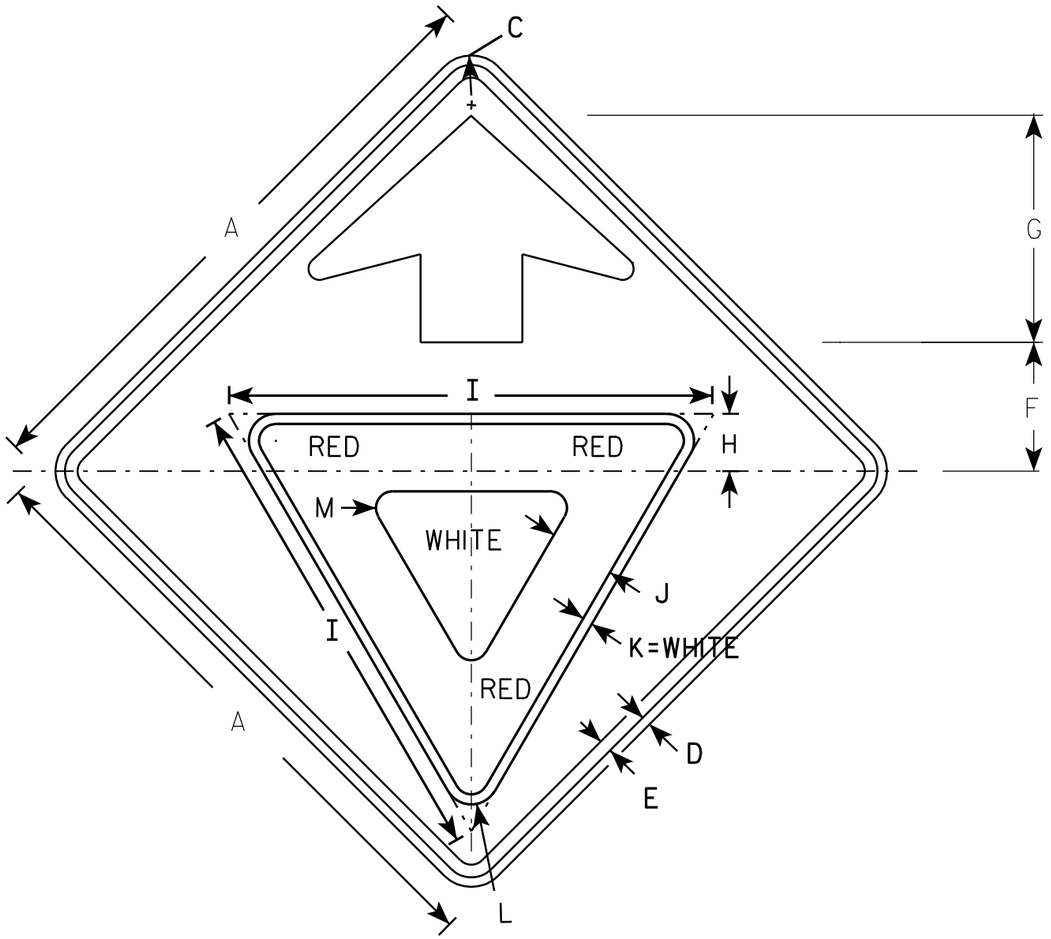
SHEET NO: 387 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W31.DGN PLOT DATE : 07-JUN-2010 12:59 PLOT BY : ditjph

WISDOT/CADDS SHEET 42

7

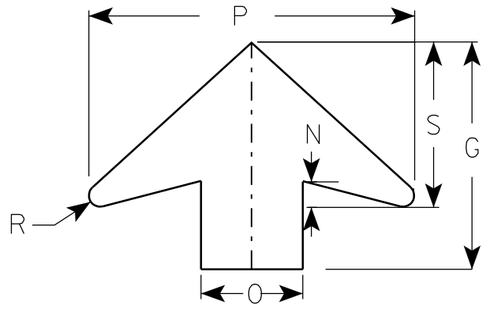
7



W3-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



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	30		1 3/8	1/2	5/8	6 1/4	11 1/4	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

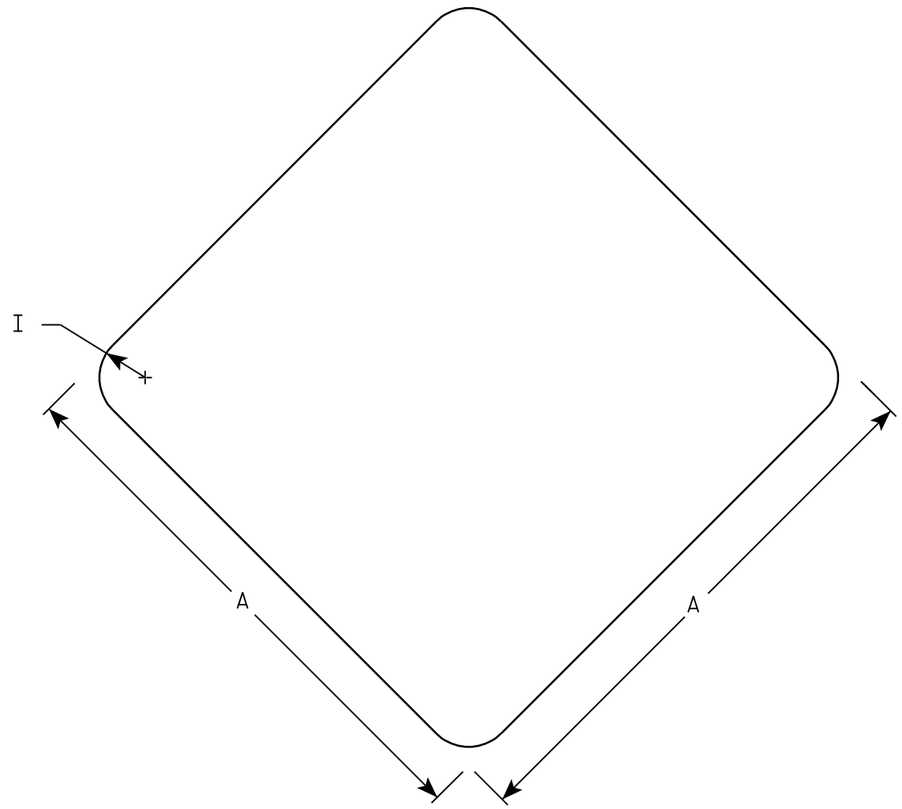
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

PROJECT NO:

SHEET NO: 388 E



W5-54

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
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners 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	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

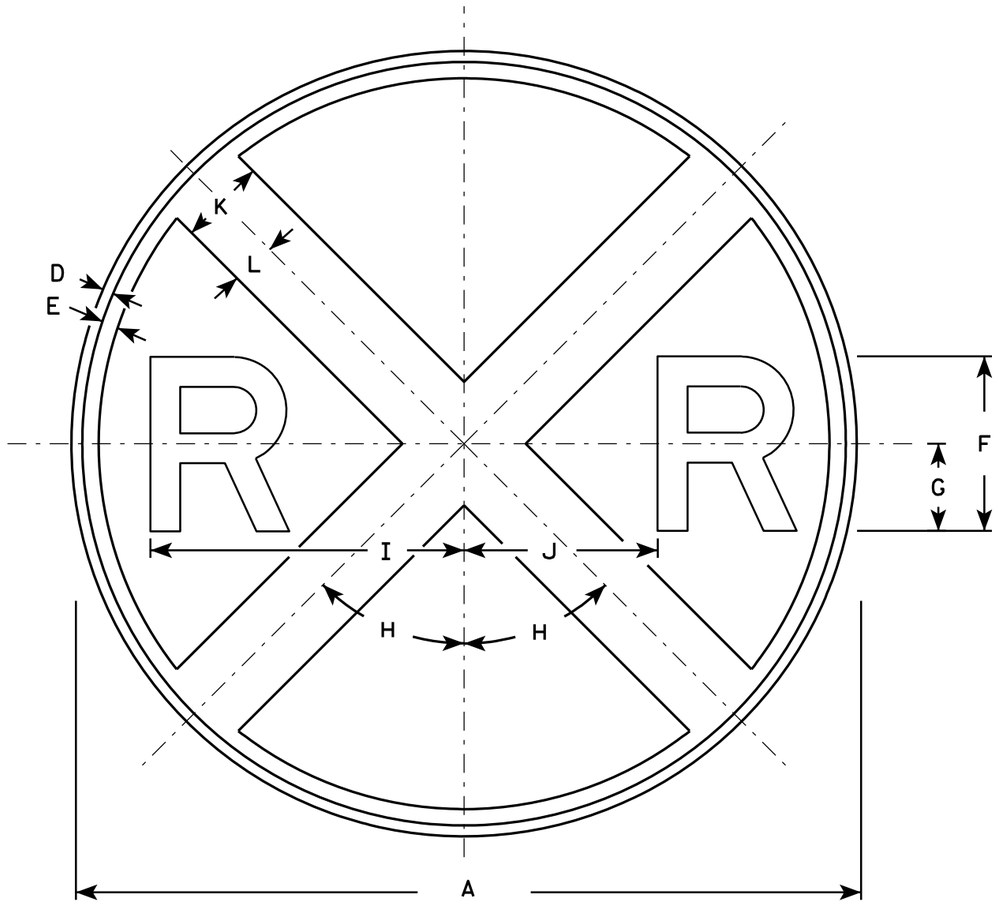
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/3/10 PLATE NO. W5-54.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 389 | E



W10-1

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. Message Series - E

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			3/8	5/8	7	3 1/2	45°	12 3/8	7 1/8	3	1 1/2															4.91
2S	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
2M	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
3																											
4	48			3/4	1 1/4	10	5	45°	18 3/8	11 5/8	5	2 1/2															12.57
5																											

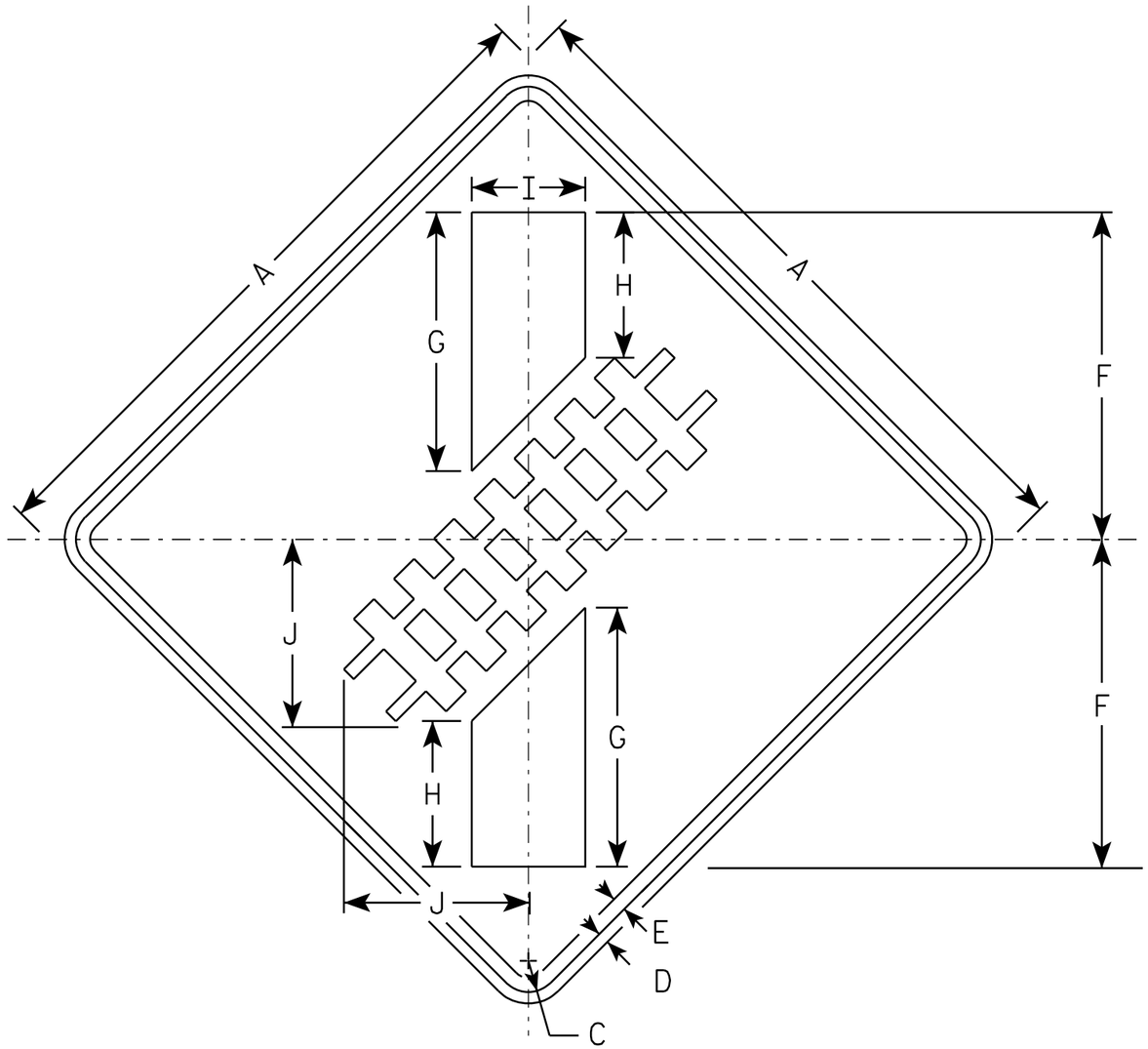
STANDARD SIGN
W10-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/13/13 PLATE NO. W10-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 390	E

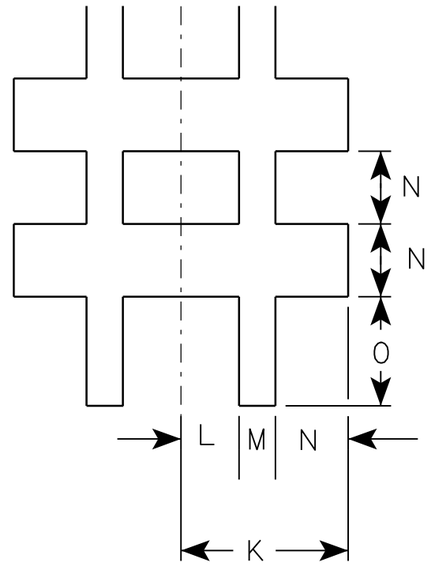


W10-12

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. W10-12L same as W10-12R except symbol is reversed.

BLOW UP OF 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	36		1 3/8	1/2	5/8	17 3/8	13 3/4	7 3/4	6	9 7/8	3 1/2	1 1/4	3/4	1 1/2	2 1/4												9
2M	36		1 3/8	1/2	5/8	17 3/8	13 3/4	7 3/4	6	9 7/8	3 1/2	1 1/4	3/4	1 1/2	2 1/4												9
3	48		2 1/4	3/4	1	23 1/8	18 1/4	10 1/4	8	13 1/4	4 1/2	1 1/2	1	2	3												16
4	48		2 1/4	3/4	1	23 1/8	18 1/4	10 1/4	8	13 1/4	4 1/2	1 1/2	1	2	3												16
5	48		2 1/4	3/4	1	23 1/8	18 1/4	10 1/4	8	13 1/4	4 1/2	1 1/2	1	2	3												16

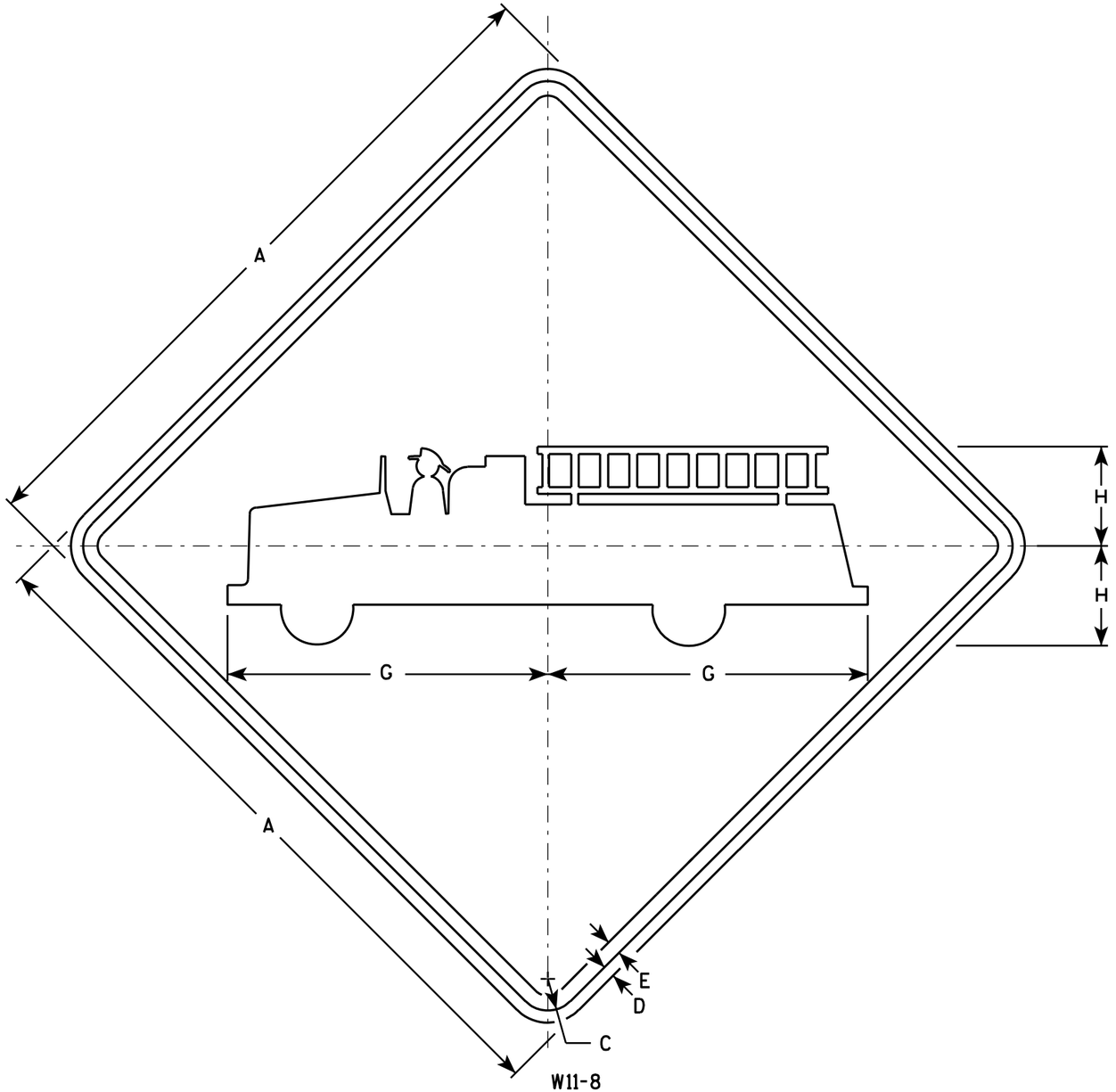
STANDARD SIGN
W10-12

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W10-12.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 391	E



W11-8

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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		11	3 3/8																			4.0
2S	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
2M	30		1 3/8	1/2	5/8		13 3/4	4 3/8																			6.25
3	36		1 5/8	5/8	3/4		16 1/2	5 1/4																			9.0
4	48		2 1/4	3/4	1		22	7																			16.0
5																											

STANDARD SIGN
W11-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-8.7

PROJECT NO:

SHEET NO: 392 E



W11-59P

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. 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 W11-59 sign shall be used with the W10-12R or W10-12L sign.

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	1/2	3	1 1/2	6 1/8	6 1/4	2	3/4	9	7 1/8	9 1/4													3.0
2S	30	24	1 1/8	3/8	1/2	4	2	7 5/8	7 7/8	2 1/4	1	11 1/4	8 7/8	11 5/8													5.0
2M	30	24	1 1/8	3/8	1/2	4	2	7 5/8	7 7/8	2 1/4	1	11 1/4	8 7/8	11 5/8													5.0
3	30	24	1 1/8	3/8	1/2	4	2	7 5/8	7 7/8	2 1/4	1	11 1/4	8 7/8	11 5/8													5.0
4																											
5																											

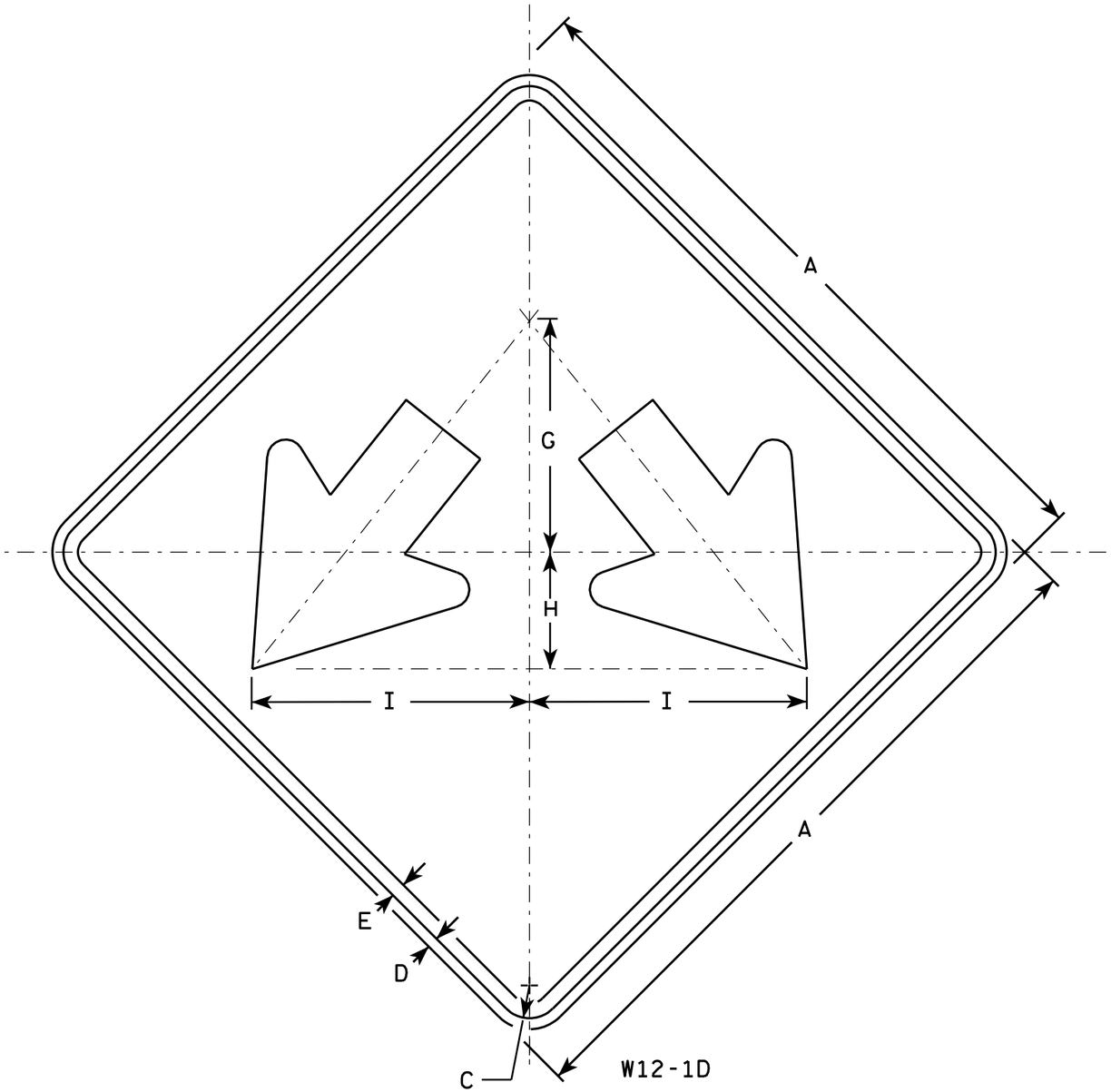
STANDARD SIGN
W11-59P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

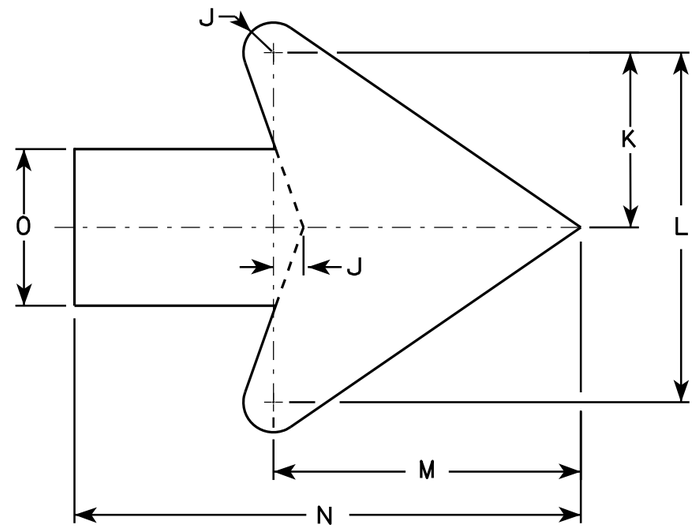
DATE 3/13/13 PLATE NO. W11-59P.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 393	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

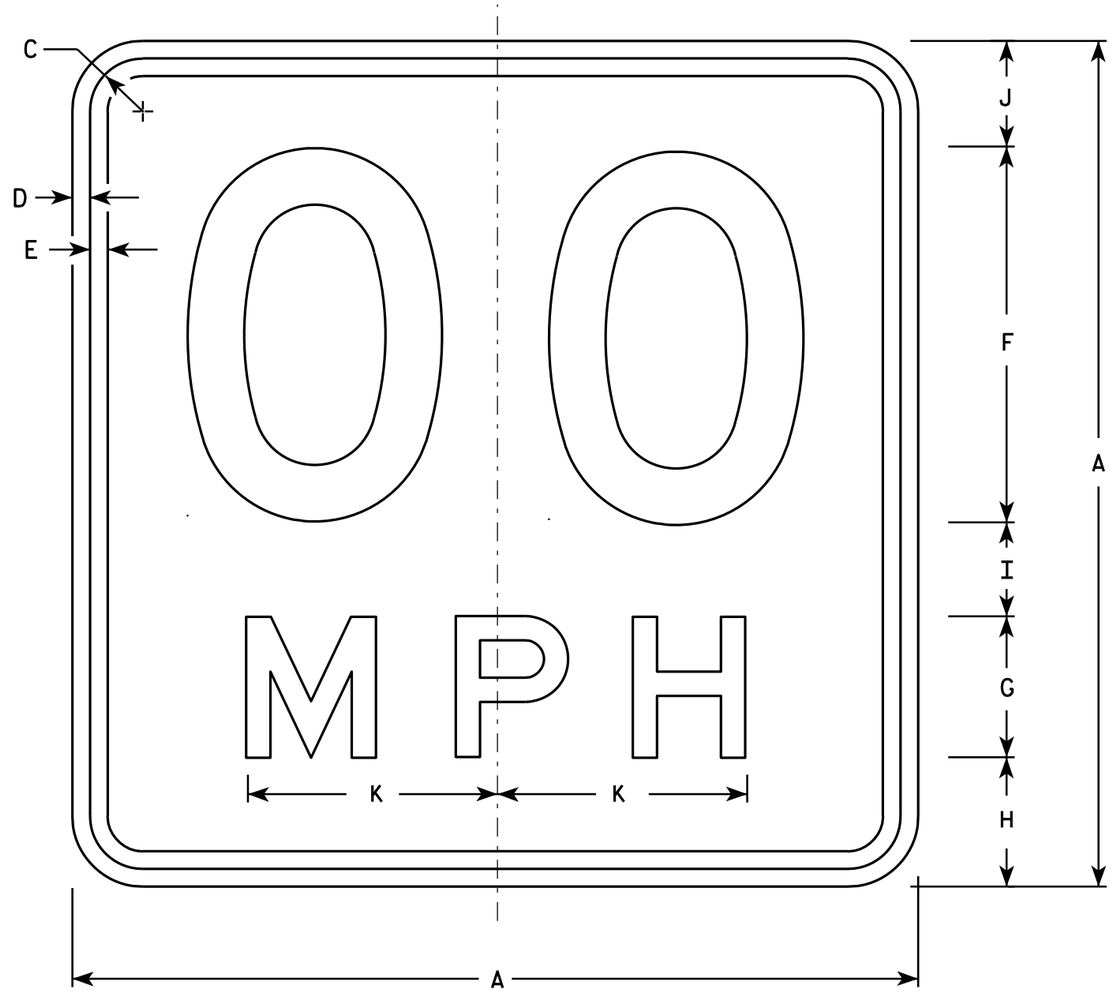
STANDARD SIGN
W12-1D

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: 394	E



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

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. Message Series - See Note 6
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 space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	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		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

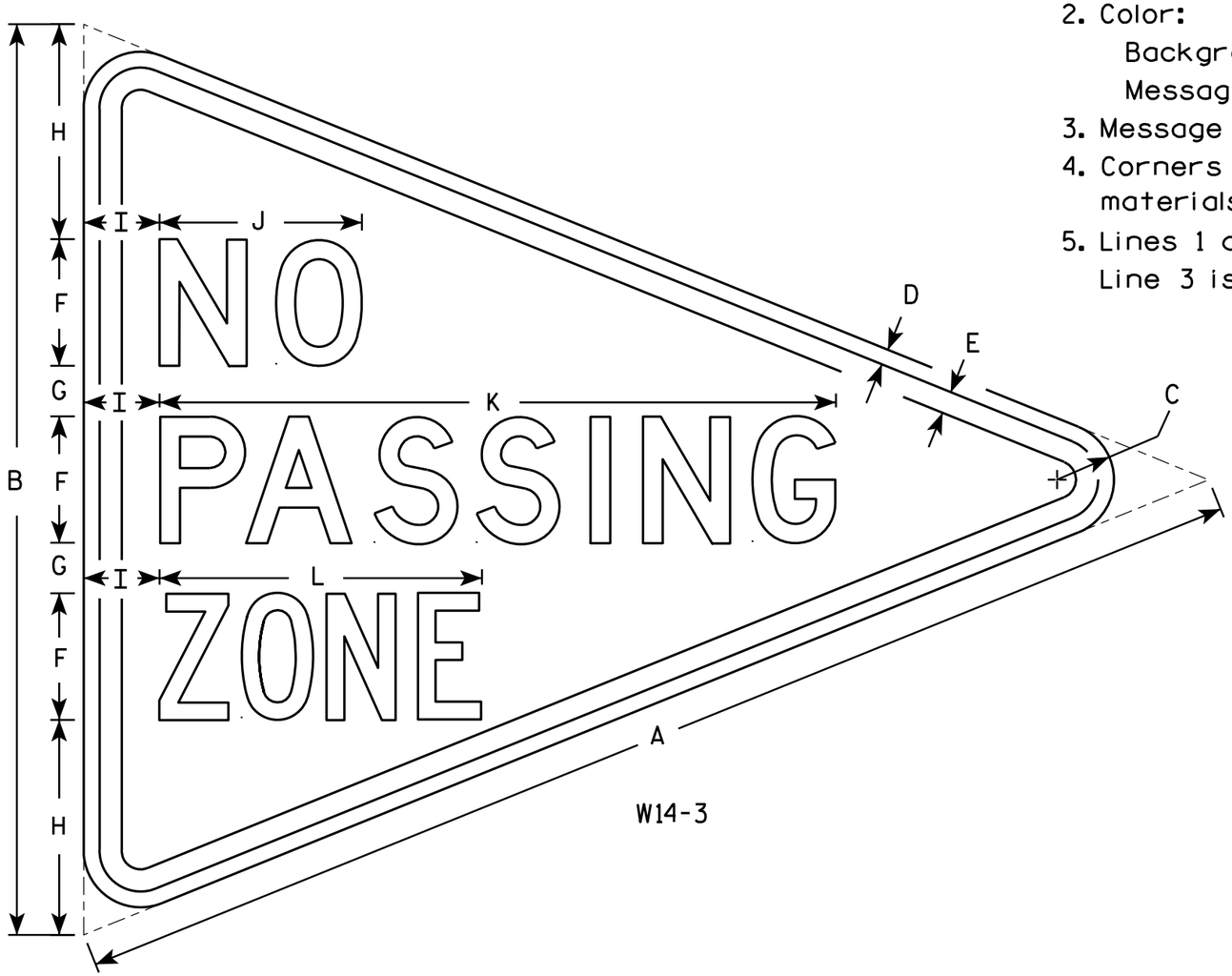
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 395 | 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. Message Series - See note 5
4. Corners and borders shall be rounded on all base materials for this sign.
5. Lines 1 and 2 are Series D.
   Line 3 is series C.



W14-3

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	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

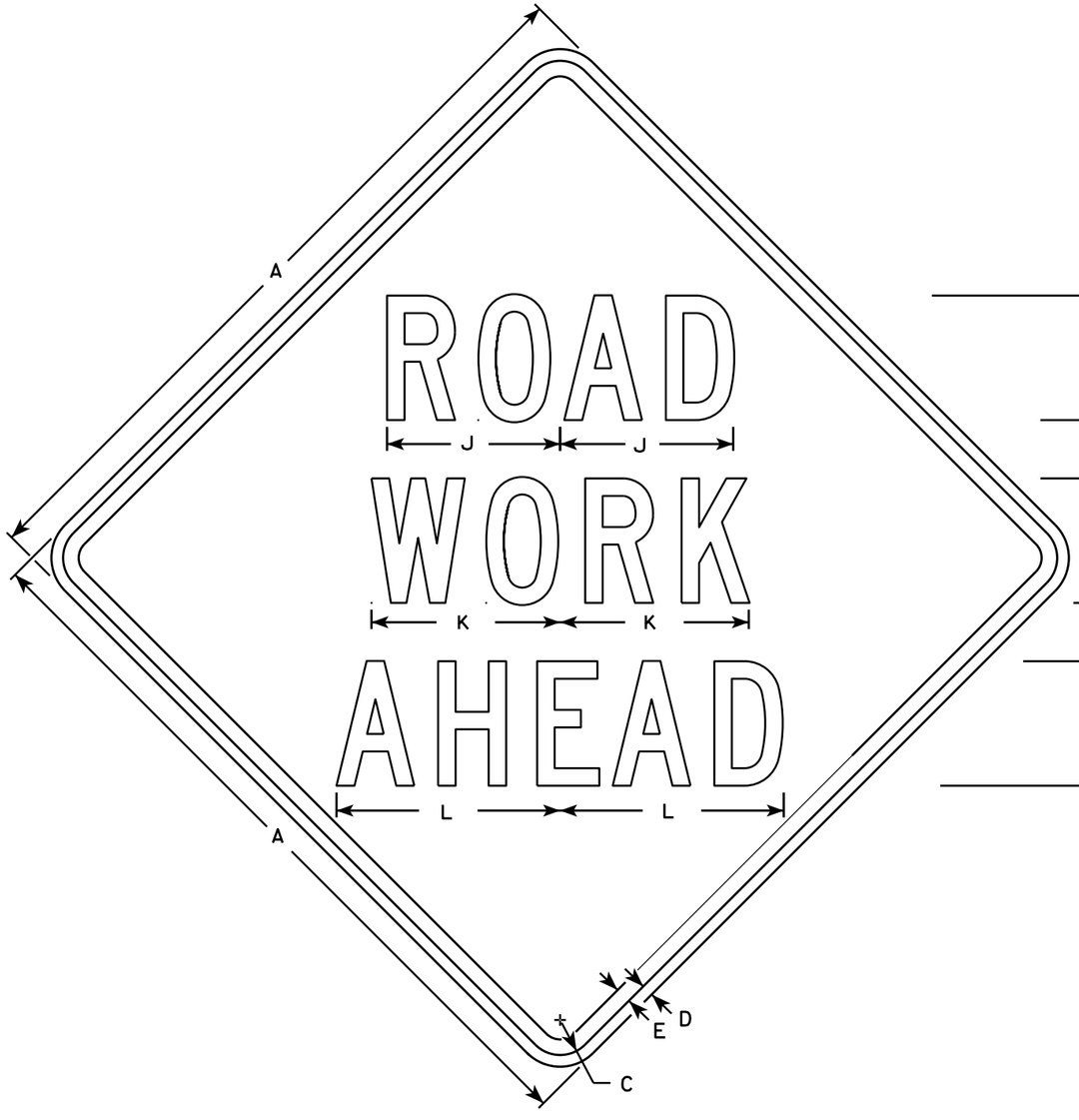
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

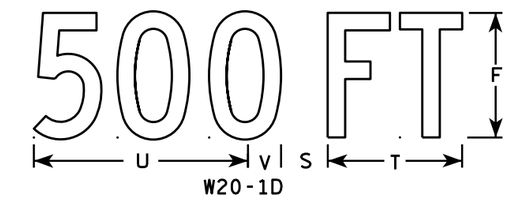
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

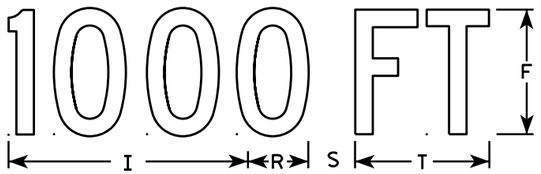
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 396	E



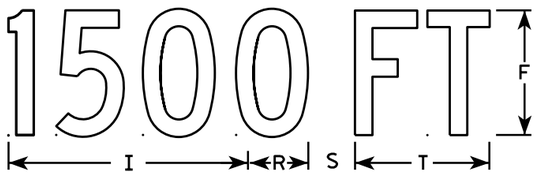
W20-1A



W20-1D



W20-1C



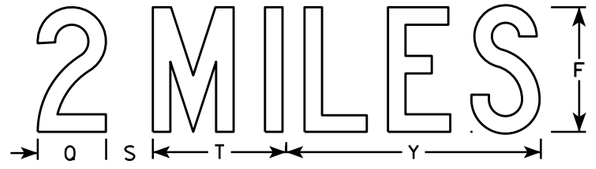
W20-1B



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

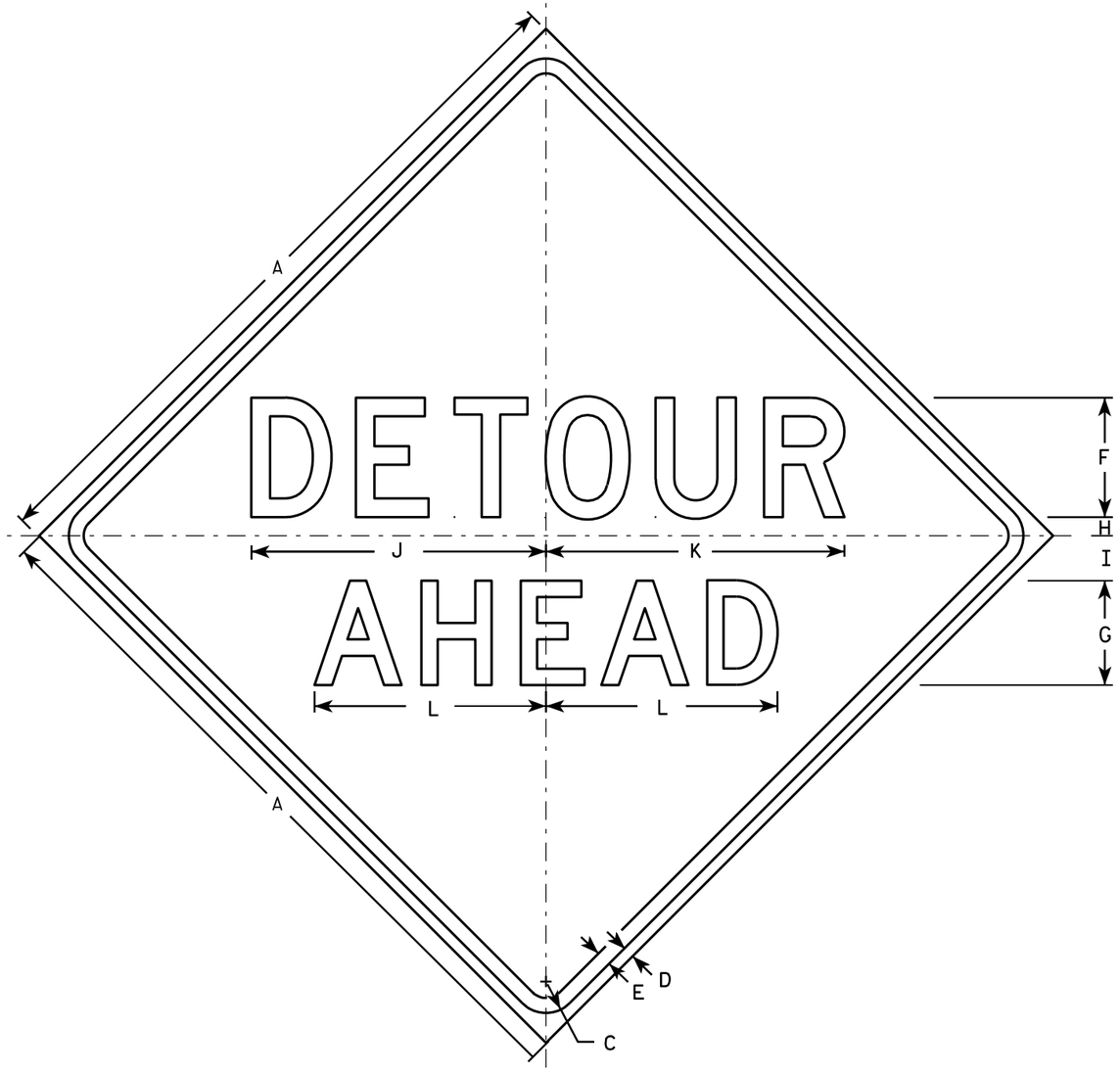
APPROVED

State Traffic Engineer

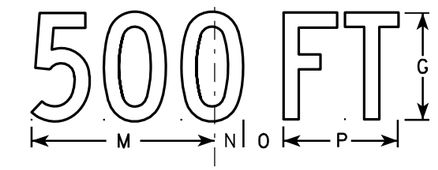
DATE 5/07/15 PLATE NO. W20-1.10

PROJECT NO:

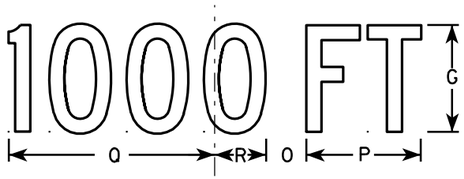
SHEET NO: E



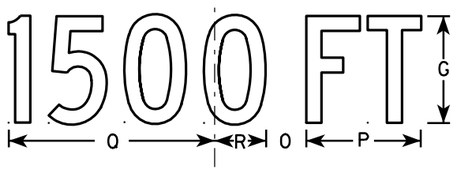
W20-2A



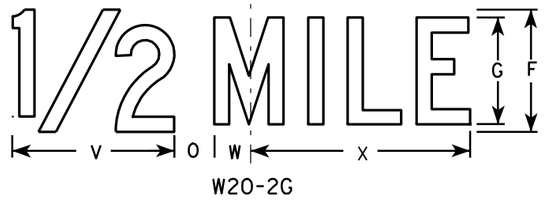
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

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. Line 1 is Series D.
   Line 2 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	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

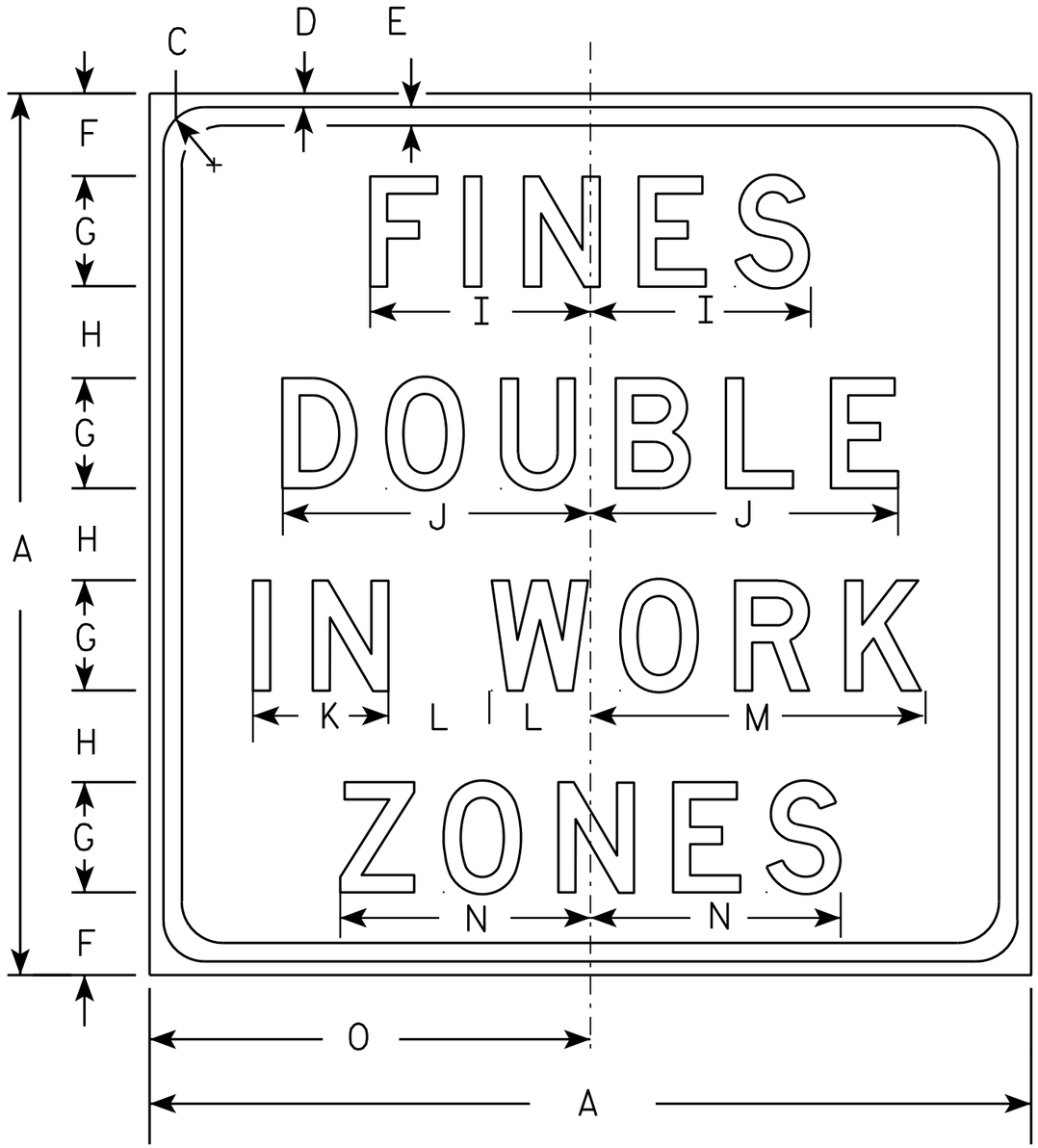
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 398	E



W21-61

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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	2 1/4	3	2 1/2	6	8 3/8	3 3/4	2 3/4	9 1/8	6 7/8	12												4.0
2S	36		1 5/8	5/8	3/4	3 3/8	4 1/2	3 3/4	9	12 5/8	5 1/2	4 1/8	13 3/4	10 1/4	18												9.0
2M	36		1 5/8	5/8	3/4	3 3/8	4 1/2	3 3/4	9	12 5/8	5 1/2	4 1/8	13 3/4	10 1/4	18												9.0
3	48		2 1/4	3/4	1	4 1/2	6	5	12	16 3/4	7 3/8	5 1/2	18 1/4	13 5/8	24												16.0
4																											
5																											

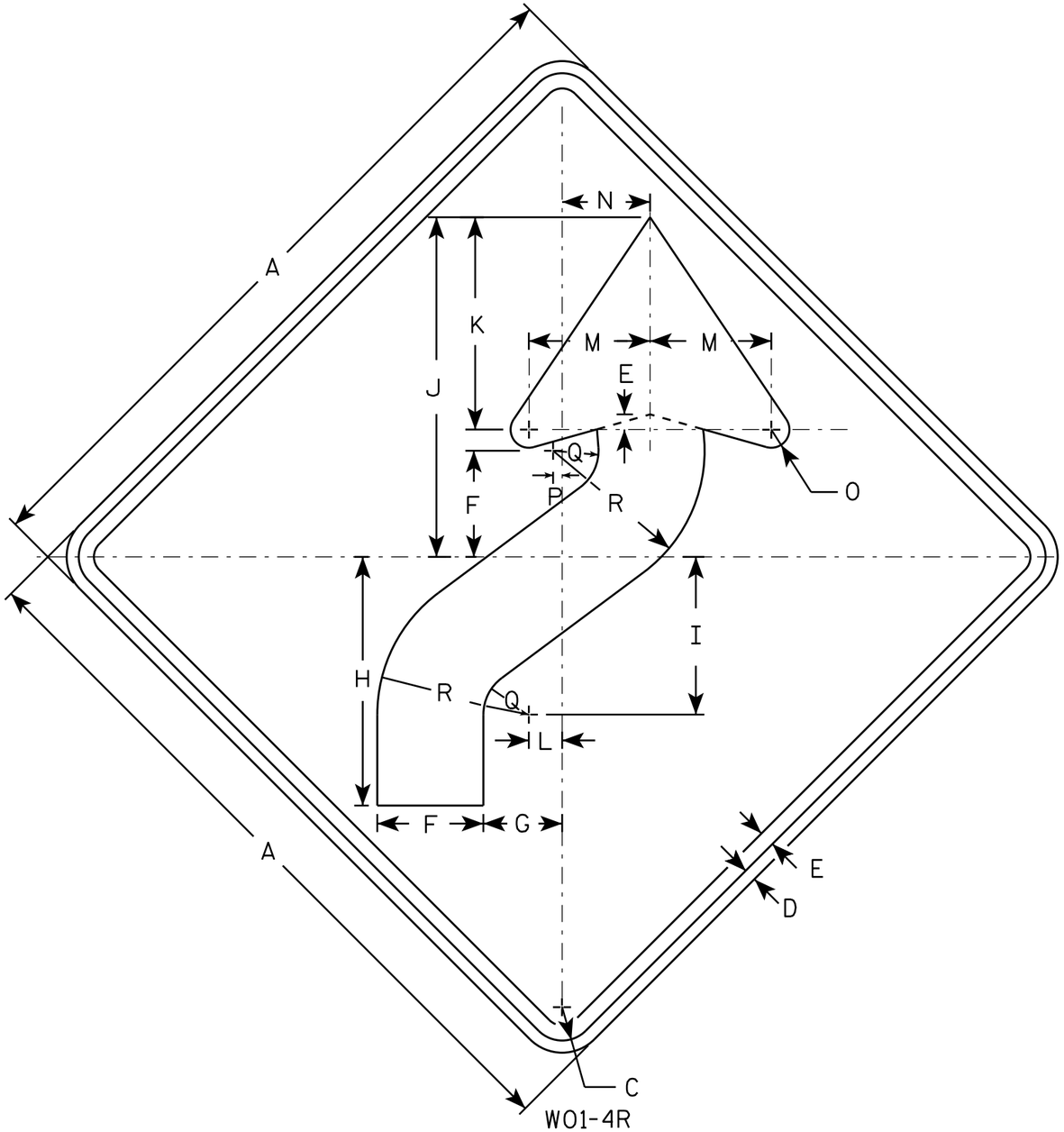
STANDARD SIGN
W21-61

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-61.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 399	E



W01-4R

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. W01-4L is the same as W01-4R 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
W01-4

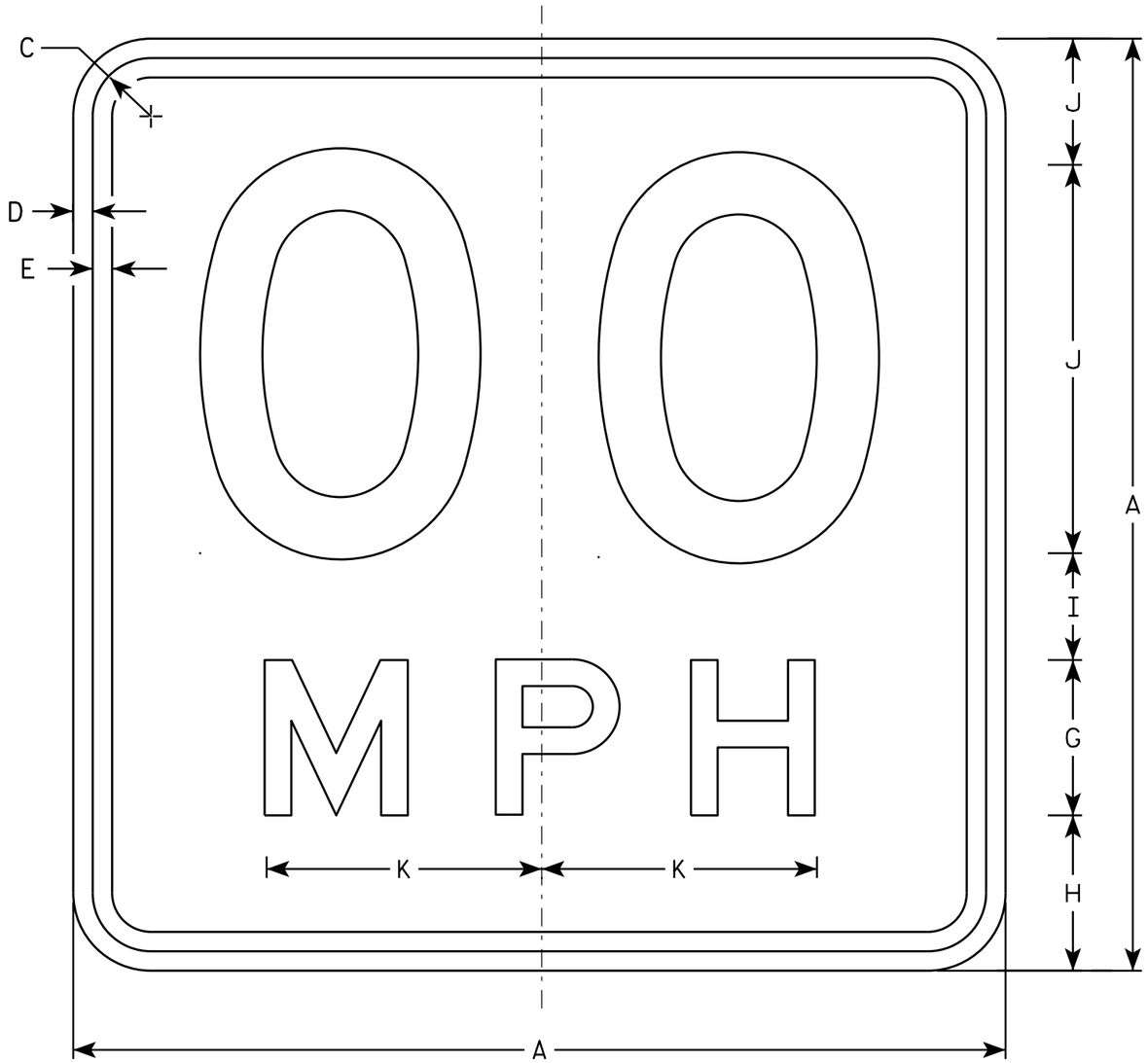
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000 WISDOT/CADDS SHEET 42



W013-1

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 6
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 space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.00
2S	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
2M	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
3	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

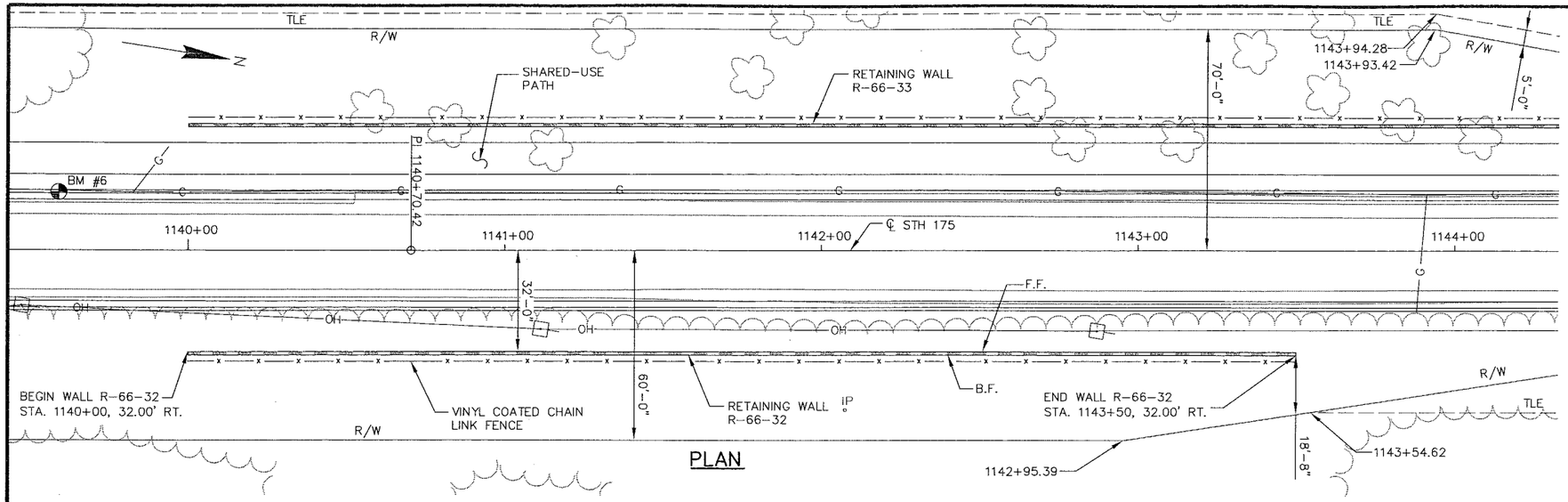
STANDARD SIGN
W013-1

WISCONSIN DEPT OF TRANSPORTATION

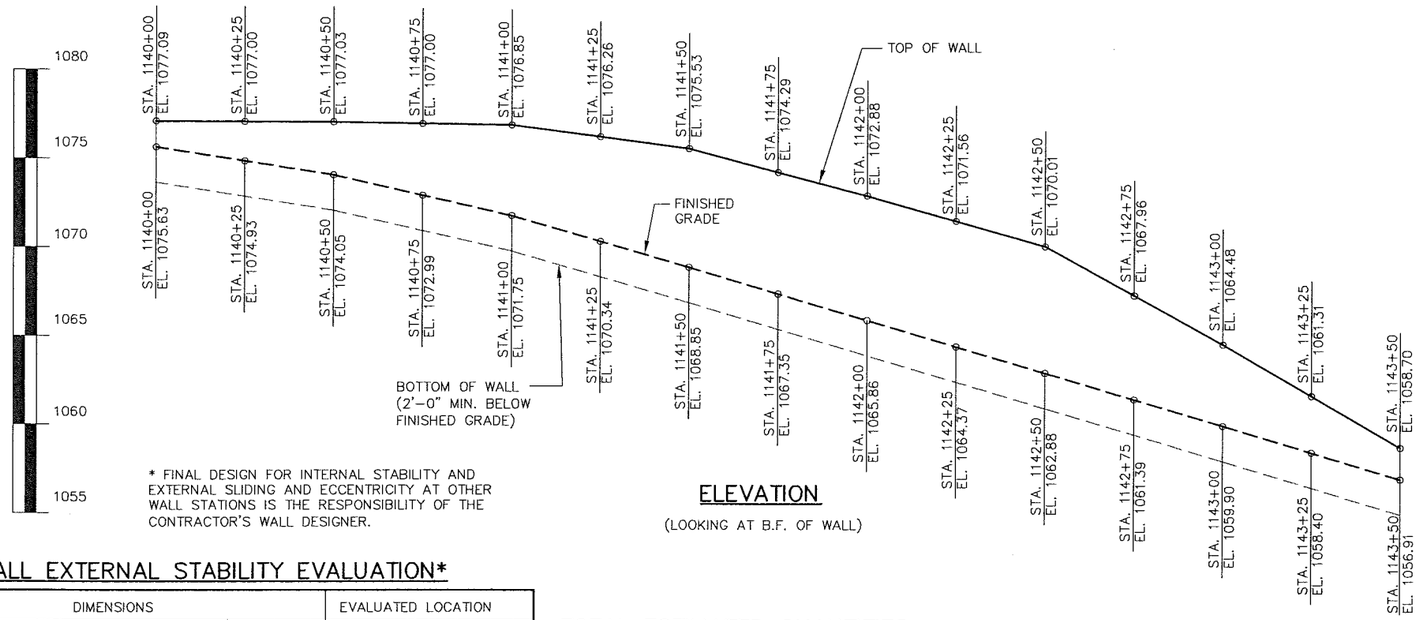
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/21/13 PLATE 401 W013-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



PLAN



* FINAL DESIGN FOR INTERNAL STABILITY AND EXTERNAL SLIDING AND ECCENTRICITY AT OTHER WALL STATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR'S WALL DESIGNER.

ELEVATION

(LOOKING AT B.F. OF WALL)

WALL EXTERNAL STABILITY EVALUATION*

DIMENSIONS	EVALUATED LOCATION
WALL HEIGHT (FEET)	12.0
EXPOSED WALL HEIGHT (FEET)	10.0
MINIMUM LENGTH OF REINFORCEMENT (FEET)	8.5
WALL STATION	1142+50 LT.
BORING USED	B-10, B-11, B-13
CAPACITY TO DEMAND RATIO (CDR)	
SLIDING (CDR > 1.0)	1.45
ECCENTRICITY (CDR > 1.0)	1.49
GLOBAL (OVERALL) STABILITY (CDR > 1.0)	1.67
BEARING RESISTANCE (CDR > 1.0)	3.10
FACTORED BEARING RESISTANCE (PSF)	9850

TOTAL ESTIMATED QUANTITIES (CATEGORY 0030)

BID ITEM NO.	BID ITEM	UNIT	TOTALS
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	370
SPV.0090.06	FENCE CHAIN LINK VINYL COATED 4-FT	LF	350
SPV.0165.04	WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH LRFD, STRUCTURE R-66-32	SF	2,470

SOIL PARAMETERS

SOIL DESCRIPTION	TOTAL UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PCF)
GRANULAR BACKFILL (REINFORCING ZONE)	120	30	0
RETAINED SOIL (SILTY SAND AND GRAVEL)	130	32	0
FOUNDATION SOILS (SILTY SAND/SANDY SILT)	115	31	0

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEVATION
5	1127+38	CENTER SURFACE INLET, 92.3' LT	1038.78
6	1139+59	CAPPED REBAR, 18.4' LT.	1076.09
7	1150"A"+69	CHISELED SQR ON CONCRETE BTWN DOORS, 112.5' LT	1017.88

WALL GEOMETRY TABLE

STATION	OFFSET TO F.F. WALL	TOP OF WALL ELEV.	FINISHED GRADE ELEV.
1140+00	32.0' RT.	1077.09	1075.63
1140+25	32.0' RT.	1077.00	1074.93
1140+50	32.0' RT.	1077.03	1074.05
1140+75	32.0' RT.	1077.00	1072.99
1141+00	32.0' RT.	1076.85	1071.75
1141+25	32.0' RT.	1076.26	1070.34
1141+50	32.0' RT.	1075.53	1068.85
1141+75	32.0' RT.	1074.29	1067.35
1142+00	32.0' RT.	1072.88	1065.86
1142+25	32.0' RT.	1071.56	1064.37
1142+50	32.0' RT.	1070.01	1062.88
1142+75	32.0' RT.	1067.96	1061.39
1143+00	32.0' RT.	1064.48	1059.90
1143+25	32.0' RT.	1061.31	1058.40
1143+50	32.0' RT.	1058.70	1056.91

STATE PROJECT NUMBER

3360-09-70

GENERAL NOTES:

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH LRFD, STRUCTURE R-66-32".

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

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

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

SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 100 P.S.F.

DRAWINGS SHALL NOT BE SCALED.

B.F. = BACK FACE
F.F. = FRONT FACE

LIST OF DRAWINGS

1. GENERAL PLAN
2. TYPICAL SECTION THRU WALL
3. SUBSURFACE EXPLORATION

DESIGN CONTACTS

CONSULTANT CONTACT
ANDREW KNUTSON, P.E., S.E.
(608) 588-7866

BRIDGE OFFICE CONTACT
WILLIAM DREHER, P.E.
(608) 266-8489

WISCONSIN
ANDREW C. KNUTSON
E-34662
SPRING GREEN, WI
7-9-15
PROFESSIONAL ENGINEER

NO.	DATE	REVISION	BY

WESTBROOK Associated Engineers, Inc.
619 EAST HOXIE STREET
P.O. BOX 429
SPRING GREEN, WI 53588
PHONE (608) 588-7866
FAX (608) 588-7954

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher NK 07/09/15
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-66-32

RETAINING WALL ALONG EAST SIDE OF STH 175

COUNTY: WASHINGTON
TOWN/~~CITY/VILLAGE~~: RICHFIELD

DESIGN SPEC.: AASHTO LRFD DESIGN SPEC. 6th EDITION

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JAP	ACK	NJB	ACK

GENERAL PLAN

SHEET 1 OF 3

402

8

8

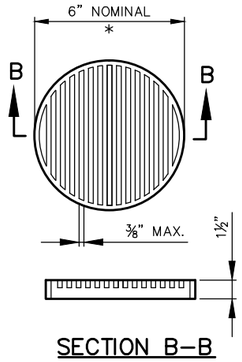
FILE: 080101_st_R-66-32_1.dwg
PLOT SCALE:

I.D. 3360-09-70

PLOT DATE: Jul 09, 2015

STATE PROJECT NUMBER

3360–09–70

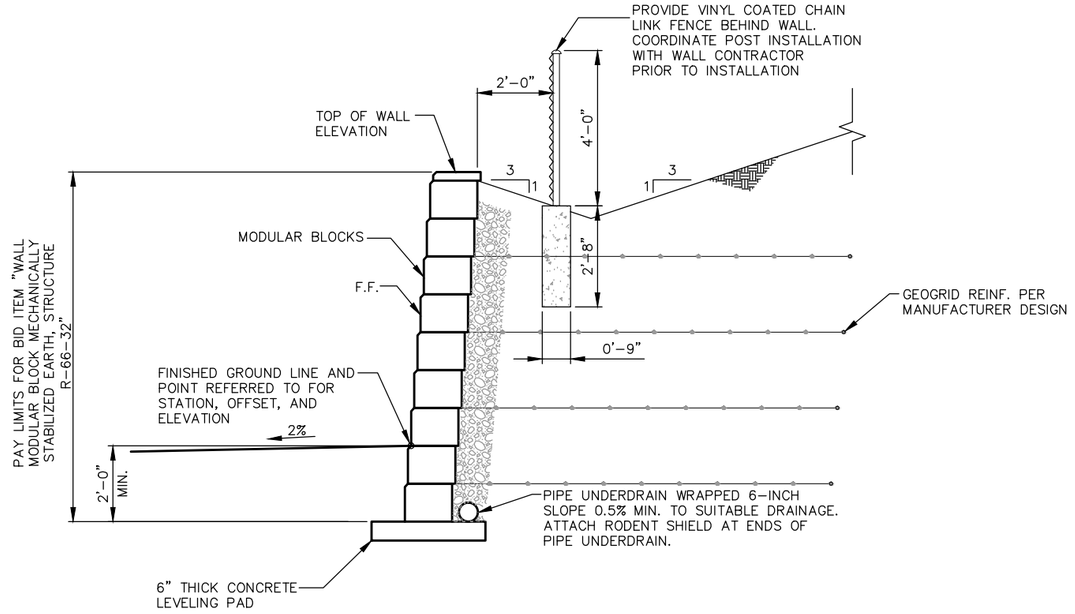


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RODENT SCREEN DETAIL



SECTION THRU RETAINING WALL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R–66–32

DRAWN BY NJB | PLANS CK'D ACK

TYPICAL SECTION THRU WALL

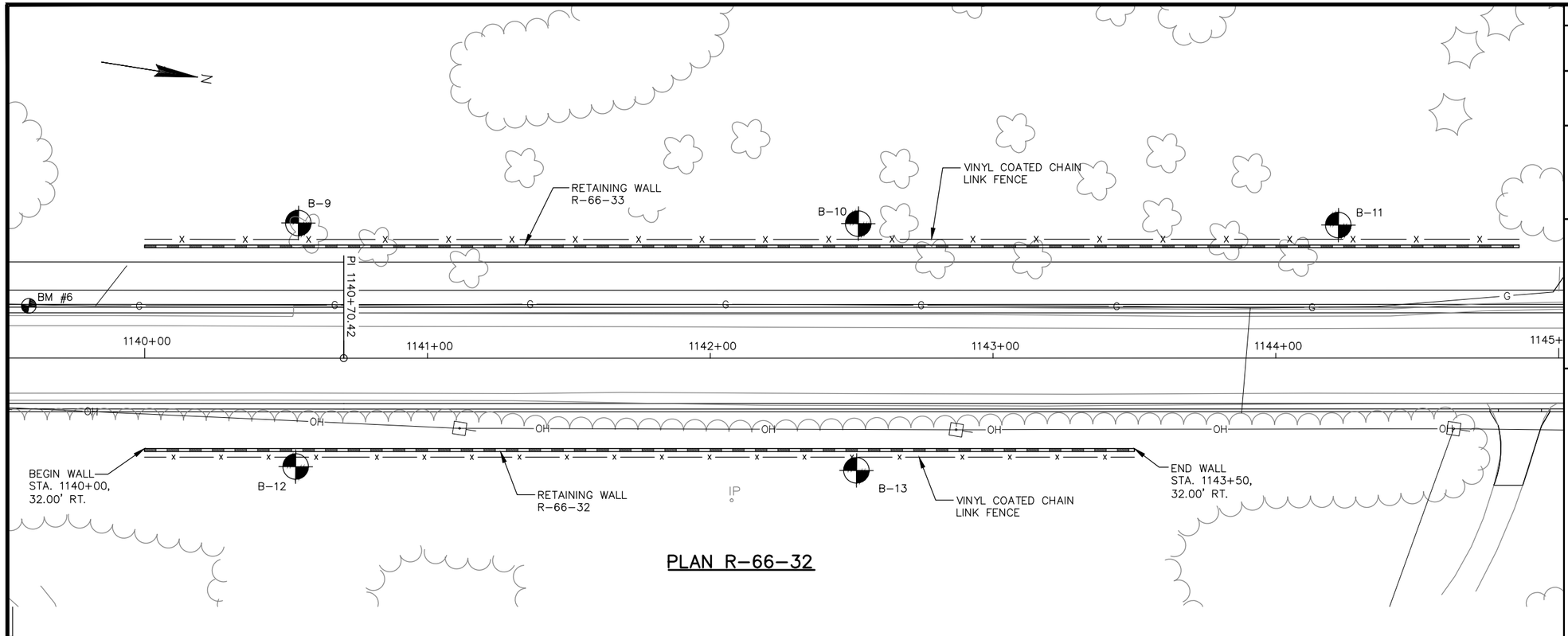
SHEET 2 OF 3

403

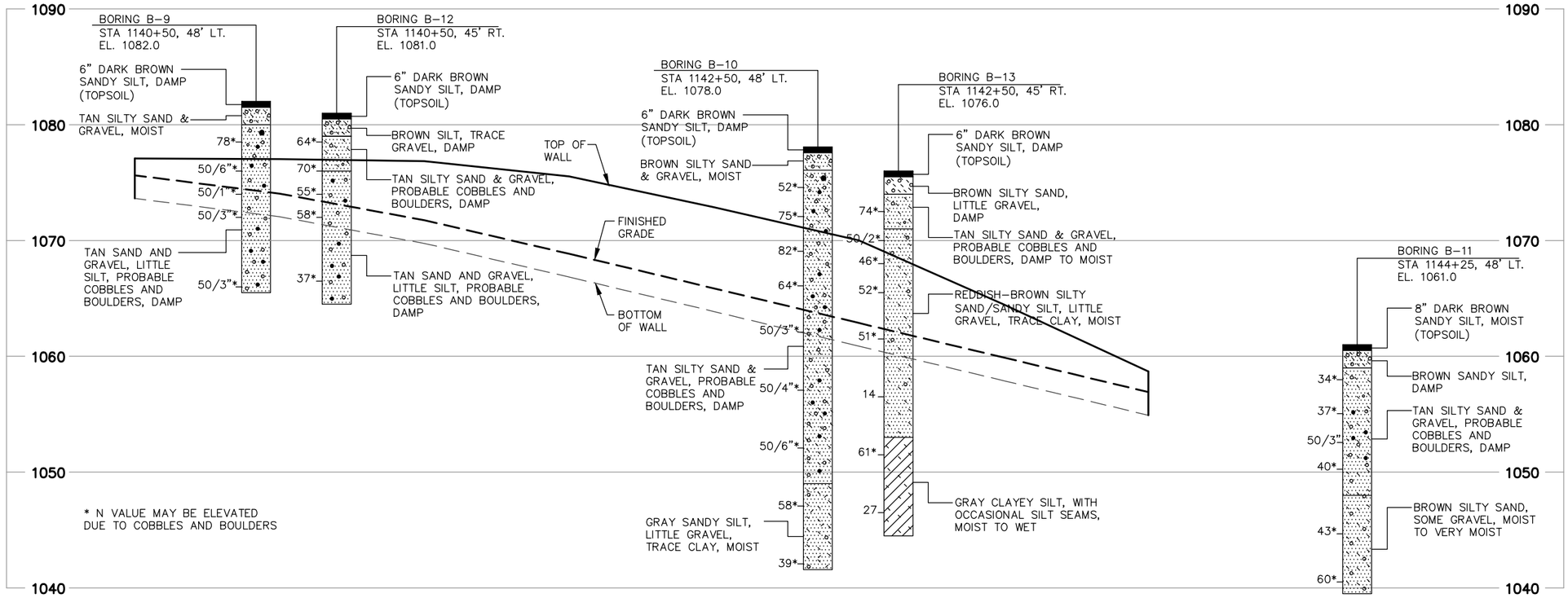
I.D. 3360–09–70

PLOT DATE: Dec 15, 2014

FILE: 080101_st_R–66–32_2.dwg
PLOT SCALE: 1/32"=1'–0"



PLAN R-66-32



* N VALUE MAY BE ELEVATED DUE TO COBBLES AND BOULDERS

STATE PROJECT NUMBER

3360-09-70

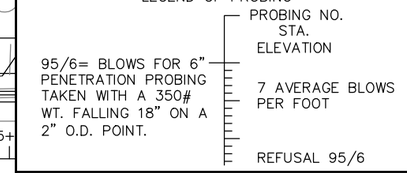
ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE
WS - WEATHERED SO-SOUND

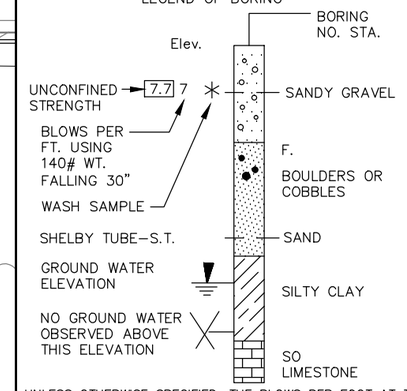
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE, SAND, PEAT, LIMESTONE, GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-66-32

DRAWN BY NJB | PLANS CK'D ACK

SUBSURFACE EXPLORATION

SHEET 3 OF 3

404

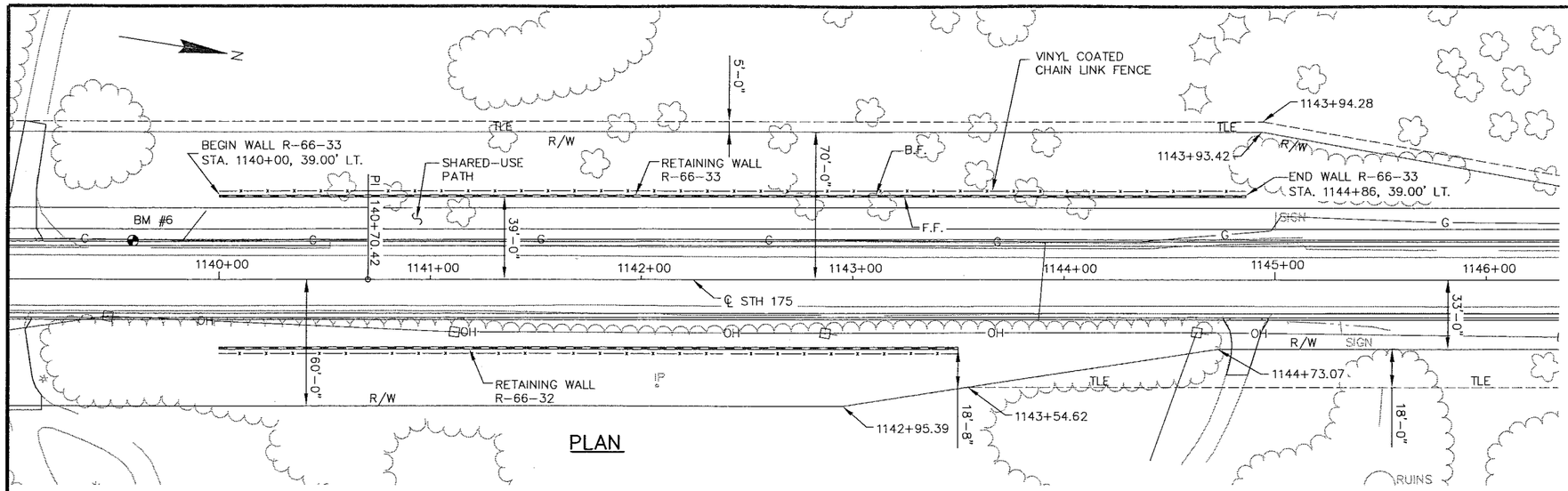
I.D. 3360-09-70 PLOT DATE: Oct 28, 2014

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PLOT SCALE: 1/32"=1'-0"

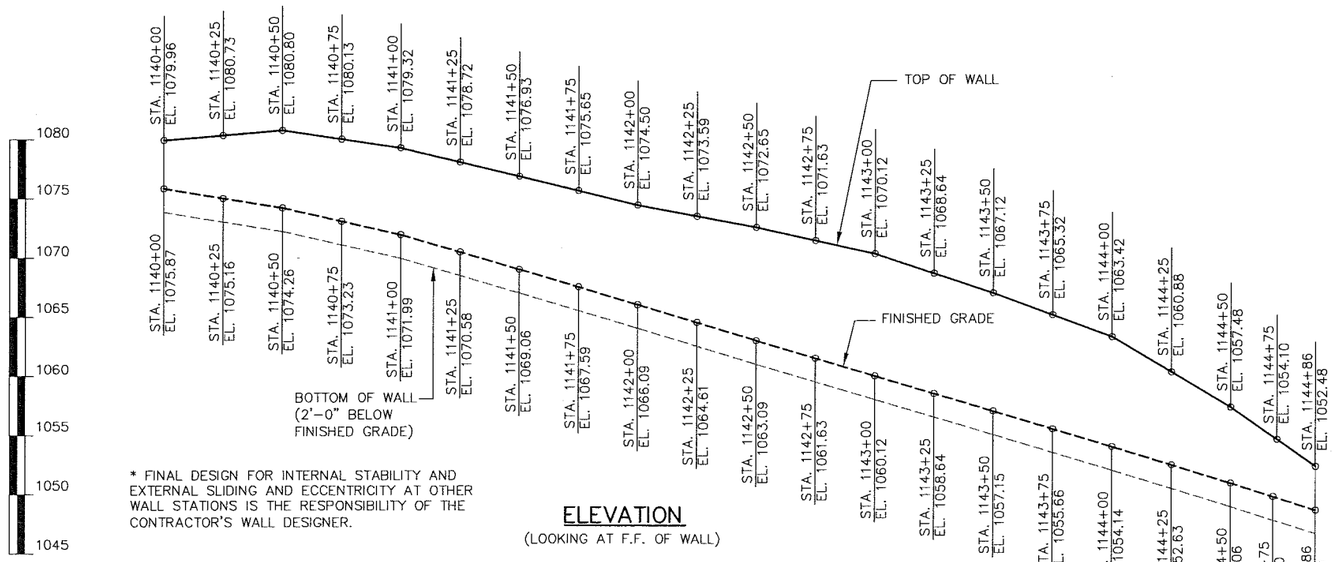
8

8

STATE PROJECT NUMBER
3360-09-70



PLAN



* FINAL DESIGN FOR INTERNAL STABILITY AND EXTERNAL SLIDING AND ECCENTRICITY AT OTHER WALL STATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR'S WALL DESIGNER.

ELEVATION
(LOOKING AT F.F. OF WALL)

GENERAL NOTES:

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH LRFD, STRUCTURE R-66-33".

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

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

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

SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 100 P.S.F.

DRAWINGS SHALL NOT BE SCALED.

B.F. = BACK FACE
F.F. = FRONT FACE

LIST OF DRAWINGS

1. GENERAL PLAN
2. TYPICAL SECTION THRU WALL
3. SUBSURFACE EXPLORATION

WALL GEOMETRY TABLE

STATION	OFFSET TO F.F. WALL	TOP OF WALL ELEV.	FINISHED GRADE ELEV.
1140+00	39.0' LT.	1079.96	1075.87
1140+25	39.0' LT.	1080.73	1075.16
1140+50	39.0' LT.	1080.80	1074.26
1140+75	39.0' LT.	1080.13	1073.23
1141+00	39.0' LT.	1079.32	1071.99
1141+25	39.0' LT.	1078.72	1070.58
1141+50	39.0' LT.	1076.93	1069.06
1141+75	39.0' LT.	1075.65	1067.59
1142+00	39.0' LT.	1074.50	1066.09
1142+25	39.0' LT.	1073.59	1064.61
1142+50	39.0' LT.	1072.65	1063.09
1142+75	39.0' LT.	1071.63	1061.63
1143+00	39.0' LT.	1070.12	1060.12
1143+25	39.0' LT.	1068.64	1058.64
1143+50	39.0' LT.	1067.12	1057.15
1143+75	39.0' LT.	1065.32	1055.66
1144+00	39.0' LT.	1063.42	1054.14
1144+25	39.0' LT.	1060.88	1052.63
1144+50	39.0' LT.	1057.48	1051.06
1144+75	39.0' LT.	1054.10	1049.50
1144+86	39.0' LT.	1052.48	1048.79

DESIGN CONTACTS

CONSULTANT CONTACT
ANDREW KNUTSON, P.E., S.E.
(608) 588-7866

BRIDGE OFFICE CONTACT
WILLIAM DREHER, P.E.
(608) 266-8489

WISCONSIN
ANDREW C. KNUTSON
E-34662
SPRING GREEN, WI
7-9-15
PROFESSIONAL ENGINEER

WALL EXTERNAL STABILITY EVALUATION*

DIMENSIONS	EVALUATED LOCATION
WALL HEIGHT (FEET)	12.0
EXPOSED WALL HEIGHT (FEET)	10.0
MINIMUM LENGTH OF REINFORCEMENT (FEET)	8.5
WALL STATION	1142+50 LT.
BORING USED	B-10, B-11, B-13
CAPACITY TO DEMAND RATIO (CDR)	
SLIDING (CDR > 1.0)	1.45
ECCENTRICITY (CDR > 1.0)	1.49
GLOBAL (OVERALL) STABILITY (CDR > 1.0)	1.67
BEARING RESISTANCE (CDR > 1.0)	3.10
FACTORED BEARING RESISTANCE (PSF)	9850

TOTAL ESTIMATED QUANTITIES (CATEGORY 0040)

BID ITEM NO.	BID ITEM	UNIT	TOTALS
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	506
SPV.0090.06	FENCE CHAIN LINK VINYL COATED 4-FT	LF	486
SPV.0165.04	WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH LRFD, STRUCTURE R-66-33	SF	4,990

SOIL PARAMETERS

SOIL DESCRIPTION	TOTAL UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PCF)
GRANULAR BACKFILL (REINFORCING ZONE)	120	30	0
RETAINED SOIL (SILTY SAND AND GRAVEL)	130	32	0
FOUNDATION SOILS (SILTY SAND/SANDY SILT)	115	31	0

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEVATION
5	1127+38	CENTER SURFACE INLET, 92.3' LT	1038.78
6	1139+59	CAPPED REBAR, 18.4' LT.	1076.09
7	1150"A"+69	CHISELED SQR ON CONCRETE BTWN DOORS, 112.5' LT	1017.88

NO.	DATE	REVISION	BY

WESTBROOK Associated Engineers, Inc.
619 EAST HOXIE STREET
P.O. BOX 429
SPRING GREEN, WI 53588
PHONE (608) 588-7866
FAX (608) 588-7954

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher NK 07/09/15
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-66-33

RETAINING WALL ALONG WEST SIDE OF STH 175

COUNTY	TOWN/~~CITY/VILLAGE~~
WASHINGTON	RICHFIELD

DESIGN SPEC: AASHTO LRFD DESIGN SPEC. 6th EDITION

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JAP	ACK	NJB	ACK

GENERAL PLAN

SHEET 1 OF 3

405

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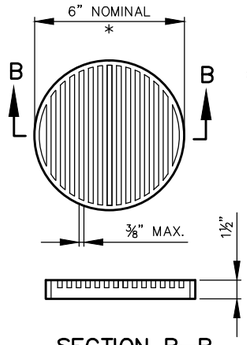
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FILE: 080102_st_R-66-33_1.dwg
PLOT SCALE:

I.D. 3360-09-70

PLOT DATE: Jul 09, 2015

STATE PROJECT NUMBER
3360–09–70



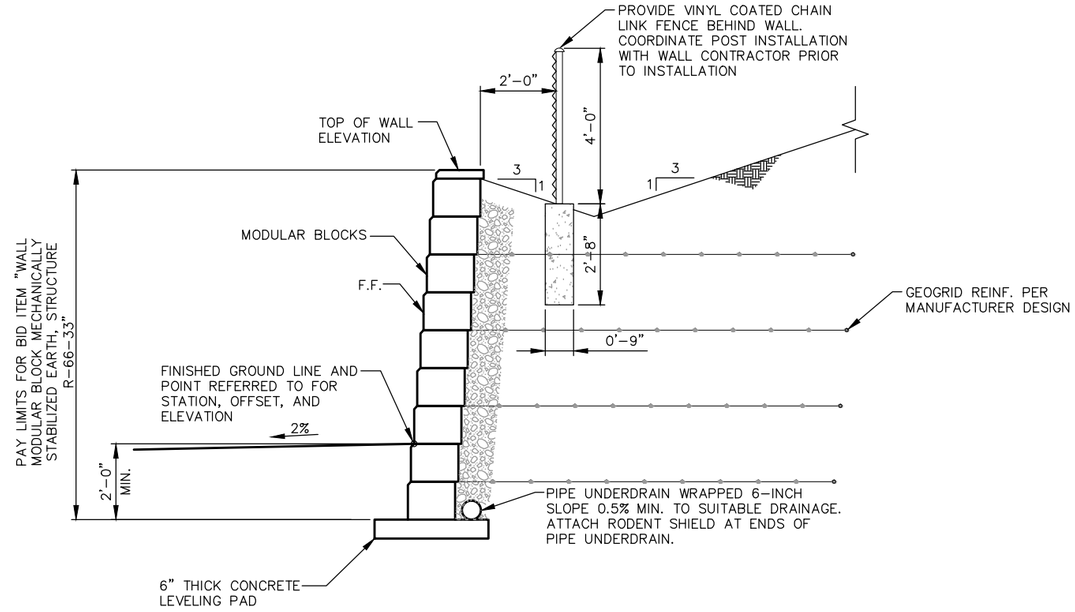
SECTION B–B

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RODENT SCREEN DETAIL



SECTION THRU RETAINING WALL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R–66–33

DRAWN BY NJB | PLANS CK'D ACK

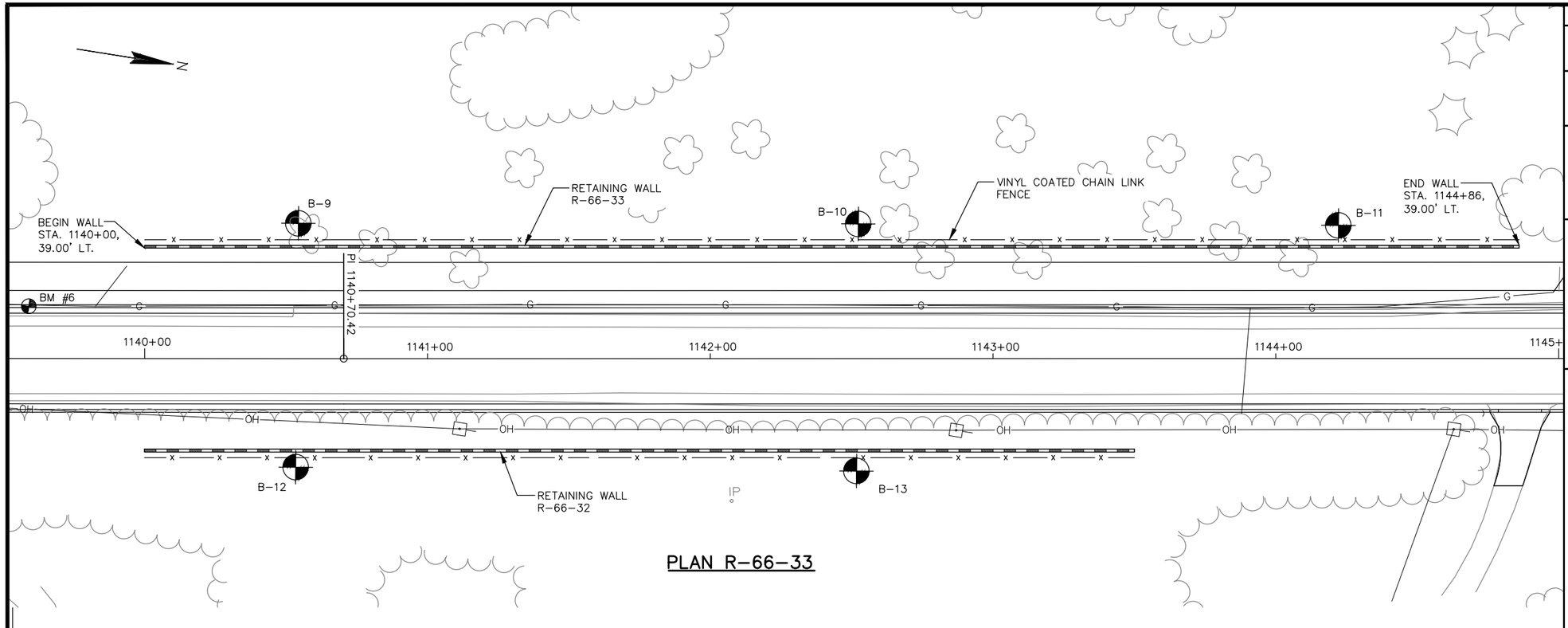
TYPICAL SECTION THRU WALL

SHEET 2 OF 3

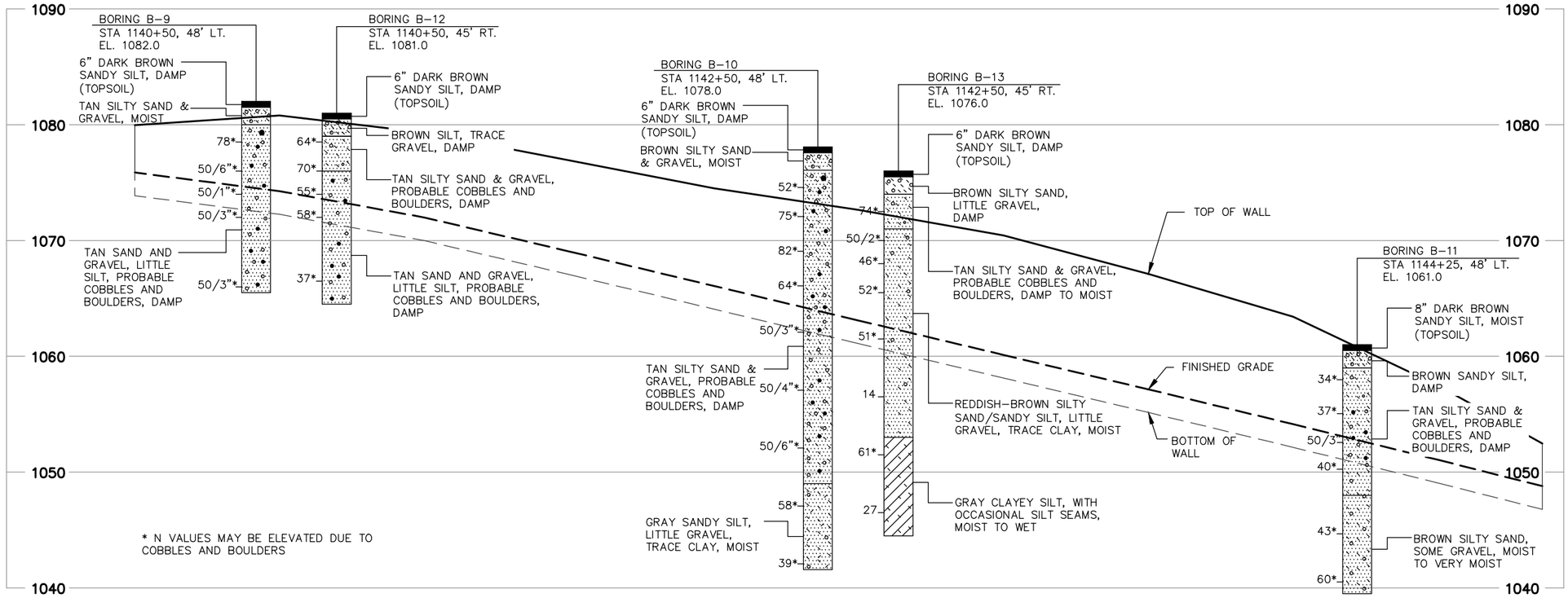
406

I.D. 3360–09–70 PLOT DATE: Dec 15, 2014

FILE: 080102_st_R–66–33_2.dwg
PLOT SCALE: 1/32"=1'–0"



PLAN R-66-33



* N VALUES MAY BE ELEVATED DUE TO COBBLES AND BOULDERS

STATE PROJECT NUMBER

3360-09-70

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE
WS - WEATHERED SO-SOUND

MATERIAL SYMBOLS

TOPSOIL, SAND, GRAVEL, SILT, PEAT, CLAY, SANDSTONE, LIMESTONE, IGNEOUS ROCK

LEGEND OF PROBING

95/6= BLOWS FOR 6" PENETRATION PROBING TAKEN WITH A 350# WT. FALLING 18" ON A 2" O.D. POINT.

PROBING NO.
STA.
ELEVATION

7 AVERAGE BLOWS PER FOOT

REFUSAL 95/6

LEGEND OF BORING

BORING NO. STA.
Elev.
UNCONFINED STRENGTH
7.7 7
BLOWS PER FT. USING 140# WT. FALLING 30"
WASH SAMPLE
SHELBY TUBE-S.T.
GROUND WATER ELEVATION
NO GROUND WATER OBSERVED ABOVE THIS ELEVATION
SANDY GRAVEL
F. BOULDERS OR COBBLES
SAND
SILTY CLAY
SO LIMESTONE

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-66-33

DRAWN BY NJB | PLANS CK'D ACK

SUBSURFACE EXPLORATION

SHEET 3 OF 3

407

I.D. 3360-09-70 PLOT DATE: Oct 28, 2014

FILE: 080102_st_R-66-33_3.dwg
PLOT SCALE: 1/32"=1'-0"

8

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I.D. 3360-09-70
STH 175
WASHINGTON COUNTY

*EBS EXCAVATION INCLUDED IN END AREA

STH 175 - RICHFIELD

STATION		DISTANCE FEET	COMMON CUT CUT END AREA S.F.	COMMON CUT VOL C.Y.	FILL FILL FACTOR = 1.20 FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
1086+00			55.3		0.1			
		50.00		129		0	0	129
1086+50			84.4		0.0			
		50.00		178		0	0	307
1087+00			108.1		0.0			
		50.00		210		1	1	516
1087+50	*		118.3		0.6			
		50.00		351		1	1	867
1088+00	*		260.9		0.0			
		4.00		39		0	0	906
1088+04	*		261.5		0.0			
		46.00		342		1	2	1246
1088+50	*		140.2		1.8			
		50.00		253		17	21	1478
1089+00	*		132.8		16.7			
		50.00		199		24	29	1649
1089+50			82.6		9.5			
		27.00		93		8	10	1732
1089+77			103.7		6.4			
		23.00		83		6	8	1807
1090+00			90.4		8.8			
		50.00		179		19	23	1963
1090+50			103.1		12.0			
		50.00		178		17	21	2121
1091+00			89.4		6.7			
		50.00		202		12	15	2308
1091+50			129.0		6.5			
		50.00		237		9	11	2534
1092+00			126.7		3.4			
		50.00		242		3	4	2772
1092+50			135.0		0.1			
		50.00		247		0	0	3019
1093+00			131.8		0.0			
		21.00		120		0	0	3139
1093+21			176.2		0.0			
		3.00		20		0	0	3159
1093+24			180.8		0.0			
		26.00		152		0	0	3310
1093+50			134.4		0.0			
		44.00		229		0	0	3540
1093+94			147.1		0.0			
		6.00		32		0	0	3571
1094+00			138.4		0.0			
		50.00		268		0	0	3840
1094+50			151.5		0.0			
		50.00		271		0	0	4111
1095+00			141.7		0.3			
		50.00		277		0	0	4388
1095+50			157.5		0.0			
		50.00		306		0	0	4694
1096+00			173.3		0.0			
		50.00		336		0	0	5030
1096+50			189.6		0.0			
		50.00		297		0	0	5327
1097+00			131.1		0.0			
		40.00		193		0	0	5519
1097+40			129.0		0.0			
		10.00		48		0	0	5567

I.D. 3360-09-70
STH 175
WASHINGTON COUNTY

*EBS EXCAVATION INCLUDED IN END AREA

STH 175 - RICHFIELD

STATION	DISTANCE FEET	COMMON CUT CUT END AREA S.F.	COMMON CUT VOL C.Y.	FILL FILL FACTOR = 1.20 FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
1097+50		128.0		0.0			
	50.00		326		0	0	5893
1098+00		223.8		0.0			
	50.00		379		0	0	6271
1098+50		185.2		0.4			
	50.00		367		0	0	6638
1099+00		211.5		0.0			
	5.00		39		0	0	6677
1099+05		210.3		0.0			
	45.00		334		0	0	7010
1099+50		190.0		0.1			
	50.00		349		0	0	7359
1100+00		186.9		0.1			
	41.00		320		0	0	7679
1100+41		235.0		0.0			
	9.00		78		0	0	7758
1100+50		235.2		0.0			
	50.00		383		0	0	8140
1101+00		178.0		0.4			
	50.00		321		3	4	8457
1101+50		168.3		2.9			
	50.00		305		5	6	8757
1102+00		161.6		2.4			
	50.00		291		6	7	9040
1102+50		152.6		3.9			
	50.00		279		9	11	9308
1103+00		148.2		6.1			
	50.00		282		10	12	9578
1103+50		156.8		5.0			
	44.00		290		4	5	9863
1103+94		199.5		0.0			
	6.00		44		0	0	9907
1104+00		199.1		0.0			
	50.00		309		5	6	10210
1104+50		134.4		5.5			
	50.00		240		14	17	10433
1105+00		124.7		9.4			
	50.00		226		23	28	10632
1105+50		119.7		15.7			
	40.00		182		26	31	10783
1105+90		126.7		19.1			
	10.00		46		7	8	10821
1106+00		123.1		18.4			
	50.00		210		38	46	10986
1106+50		103.5		22.7			
	50.00		215		22	27	11174
1107+00		129.0		1.3			
	50.00		349		1	1	11522
1107+50		248.2		0.0			
	50.00		441		0	0	11962
1108+00		227.6		0.2			
	38.00		416		0	0	12378
1108+38		363.0		0.0			
	12.00		144		0	0	12522
1108+50		287.3		0.0			
	50.00		441		1	1	12961
1109+00		188.6		1.3			
	50.00		335		24	29	13267

I.D. 3360-09-70
STH 175
WASHINGTON COUNTY

*EBS EXCAVATION INCLUDED IN END AREA

STH 175 - RICHFIELD

STATION	DISTANCE FEET	COMMON CUT CUT END AREA S.F.	COMMON CUT VOL C.Y.	FILL FILL FACTOR = 1.20 FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
1109+50		172.8		25.1			
	40.00		236		47	56	13447
1109+90		146.3		38.3			
	10.00		48		15	18	13477
1110+00		114.9		43.0			
	50.00		229		90	108	13598
1110+50		131.9		54.2			
	50.00		278		76	92	13784
1111+00		168.4		28.2			
	50.00		347		35	42	14089
1111+50		206.1		9.3			
	50.00		326		15	18	14397
1112+00		146.0		7.1			
	50.00		217		11	13	14601
1112+50		87.9		4.3			
	50.00		146		17	20	14727
1113+00		70.1		14.1			
	50.00		119		28	34	14812
1113+50		58.3		16.1			
	35.00		103		22	27	14889
1113+85		101.3		18.3			
	15.00		46		10	12	14922
1114+00		62.6		18.1			
	50.00		132		34	41	15013
1114+50		79.7		18.8			
	50.00		157		42	51	15120
1115+00		90.0		26.7			
	50.00		161		52	63	15218
1115+50		84.4		29.8			
	50.00		140		72	86	15272
1116+00		66.6		48.0			
	50.00		119		124	149	15241
1116+50		61.5		86.3			
	50.00		108		253	303	15046
1117+00		55.0		186.5			
	50.00		97		373	448	14694
1117+50		49.5		216.6			
	50.00		90		377	453	14332
1118+00		48.1		191.0			
	50.00		89		298	358	14063
1118+50		48.1		131.1			
	50.00		89		198	237	13914
1119+00		47.6		82.6			
	50.00		93		133	160	13847
1119+50		52.7		61.0			
	20.00		37		36	44	13841
1119+70		47.5		37.3			
	30.00		85		32	38	13888
1120+00		105.6		19.9			
	19.00		58		9	11	13935
1120+19		59.0		5.1			
	15.00		51		3	4	13982
1120+34		125.5		6.9			
	16.00		79		4	5	14057
1120+50		141.0		6.0			
	50.00		177		74	89	14145
1121+00		50.5		74.2			
	50.00		70		129	155	14060

NOTES
1) Common Cut volume includes EBS excavation.
2) Salvaged/Unusable Pavement Material is included in Common Cut. This assumes the existing pavement is salvaged or wasted by the contractor. The existing pavement structure is not shown in the cross sections, but is included in the earthwork summary table as Salvaged/Unusable Pavement Material.
3) EBS excavation to be backfilled with Breaker Run and paid for as item 311.0110 Breaker Run.
4) Adjusted Fill = Fill * Fill Factor (1.20)
5) Mass Balance = Cut Volume – Adjusted Fill. A plus Mass Balance quantity indicates a waste volume of material. A minus quantity indicates a shortage of material.

SEE MISCELLANEOUS QUANTITY TABLES FOR EARTHWORK SUMMARY BY STAGE

FILE NAME: W:\x-Projects\RD\7140\project 1 dgn\090101_ew.dwg PLOT DATE: May 12, 2015 PLOT BY: luke0 PLOT SCALE: ROTATION:

I.D. 3360-09-70
STH 175
WASHINGTON COUNTY

*EBS EXCAVATION INCLUDED IN END AREA

STH 175 - RICHFIELD

		COMMON CUT		FILL FILL FACTOR = 1.20			
STATION	DISTANCE FEET	CUT END AREA S.F.	VOL C.Y.	FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
1121+50		24.9		65.1			
	50.00		50		101	121	13990
1122+00		29.6		43.6			
	50.00		53		81	97	13946
1122+50		27.5		43.7			
	50.00		53		80	96	13902
1123+00		29.4		42.8			
	50.00		53		76	91	13865
1123+50		28.2		38.9			
	50.00		56		103	124	13797
1124+00		32.6		72.4			
	50.00		57		143	172	13683
1124+50		28.9		82.0			
	50.00		51		129	155	13579
1125+00		26.5		57.3			
	50.00		53		82	98	13535
1125+50		31.3		31.0			
	50.00		56		64	77	13513
1126+00		29.3		38.4			
	50.00		51		55	66	13499
1126+50		26.0		20.6			
	50.00		24		19	23	13500
1127+00		0.0		0.0			
	8.00		0		0	0	13500
1127+08		0.0		0.0			
	42.00		0		0	0	13500
1127+50		0.0		0.0			
	50.00		43		40	47	13495
1128+00		45.9		42.7			
	50.00		91		72	86	13500
1128+50		52.0		34.6			
	50.00		92		56	67	13524
1129+00		47.0		26.1			
	50.00		67		49	59	13533
1129+50		25.5		26.7			
	50.00		42		50	60	13515
1130+00		19.4		27.1			
	43.00		36		45	53	13497
1130+43		25.8		28.8			
	7.00		6		8	9	13494
1130+50		20.4		29.5			
	50.00		33		69	83	13444
1131+00		14.8		44.9			
	50.00		30		80	96	13378
1131+50		17.9		41.6			
	50.00		30		83	99	13309
1132+00		14.5		47.9			
	50.00		26		86	103	13232
1132+50		13.3		44.6			
	50.00		54		76	91	13195
1133+00		45.6		37.5			
	35.00		71		83	99	13167
1133+35		63.6		90.1			
	15.00		35		53	64	13138
1133+50		61.6		100.8			
	50.00		99		181	217	13020
1134+00		45.5		94.3			
	50.00		94		167	200	12914

I.D. 3360-09-70
STH 175
WASHINGTON COUNTY

*EBS EXCAVATION INCLUDED IN END AREA

STH 175 - RICHFIELD

		COMMON CUT		FILL FILL FACTOR = 1.20			
STATION	DISTANCE FEET	CUT END AREA S.F.	VOL C.Y.	FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
1134+50		56.2		85.6			
	50.00		108		130	156	12867
1135+00		60.8		54.7			
	50.00		151		83	100	12918
1135+50		101.9		35.0			
	50.00		182		50	60	13040
1136+00		94.3		18.8			
	50.00		164		21	25	13179
1136+50		82.8		4.0			
	50.00		132		10	12	13298
1137+00		59.9		7.0			
	50.00		121		11	13	13406
1137+50		70.6		4.5			
	12.00		34		2	2	13438
1137+62		82.7		2.0			
	38.00		125		3	4	13559
1138+00		94.8		4.5			
	50.00		199		6	8	13750
1138+50		119.8		2.3			
	50.00		214		2	3	13962
1139+00		110.9		0.0			
	7.00		32		0	0	13994
1139+07		138.1		0.0			
	43.00		240		0	0	14234
1139+50		163.9		0.0			
	50.00		475		0	0	14710
1140+00		349.4		0.0			
	50.00		715		0	0	15424
1140+50		422.5		0.0			
	50.00		956		0	0	16380
1141+00		609.7		0.0			
	50.00		1146		0	0	17526
1141+50		627.4		0.0			
	50.00		1172		1	1	18697
1142+00		638.6		0.7			
	50.00		1178		1	1	19874
1142+50		633.5		0.0			
	50.00		1136		0	0	21010
1143+00		593.0		0.0			
	50.00		1105		0	0	22115
1143+50		600.9		0.0			
	50.00		1061		0	0	23176
1144+00		544.8		0.0			
	50.00		873		0	0	24049
1144+50		398.2		0.0			
	36.00		441		3	4	24487
1144+86		264.0		4.5			
	14.00		106		3	3	24590
1145+00		145.2		5.4			
	50.00		204		32	38	24756
1145+50		75.4		29.1			
	50.00		145		80	96	24805
1146+00		81.3		57.6			
	50.00		158		121	145	24818
1146+50		89.3		72.6			
	50.00		175		119	143	24850
1147+00		99.4		55.9			

I.D. 3360-09-70
STH 175
WASHINGTON COUNTY

*EBS EXCAVATION INCLUDED IN END AREA

STH 175 - RICHFIELD

			COMMON CUT		FILL FILL FACTOR = 1.20			
STATION		DISTANCE FEET	CUT END AREA S.F.	VOL C.Y.	FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE

SEE STH 167 ROUNDABOUT AND CENTER CIRCLE

1158+00	*		171.9		22.8			
		50.00		314		54	64	25100
1158+50	*		167.6		35.2			
		50.00		321		48	57	25364
1159+00	*		179.5		16.2			
		28.00		201		8	10	25556
1159+28	*		208.7		0.0			
		13.00		102		0	0	25657
1159+41	*		213.6		0.0			
		9.00		71		0	0	25728
1159+50	*		210.4		0.0			
		50.00		353		42	50	26031
1160+00	*		170.7		45.0			
		50.00		310		94	113	26228
1160+50	*		163.9		56.4			
		50.00		292		108	129	26390
1161+00	*		151.0		60.1			
		10.00		58		22	26	26422
1161+10	*		163.9		59.2			
		40.00		224		72	86	26560
1161+50	*		138.4		37.5			
		27.00		140		32	39	26661
1161+77	*		141.4		27.0			
		23.00		115		18	21	26755
1162+00	*		129.1		14.3			
		50.00		252		14	17	26990
1162+50	*		142.9		1.0			
		50.00		289		1	1	27278
1163+00	*		169.6		0.0			
		21.00		146		0	0	27424
1163+21	*		205.5		0.0			
		29.00		213		0	0	27638
1163+50	*		191.7		0.0			
		50.00		370		0	0	28007
1164+00	*		207.7		0.0			
		29.00		216		0	0	28223
1164+29	*		194.4		0.0			
		21.00		144		0	0	28367
1164+50	*		175.7		0.0			
		50.00		309		0	0	28676
1165+00	*		158.4		0.4			
		18.00		107		0	0	28783
1165+18	*		162.6		0.0			
		32.00		181		4	5	28959
1165+50	*		143.0		7.2			
		50.00		248		19	23	29185
1166+00	*		125.3		13.4			
		41.00		192		24	29	29347
1166+41	*		127.0		18.5			
		9.00		41		6	8	29380
1166+50	*		117.9		19.8			
		50.00		215		43	52	29544
1167+00	*		114.7		26.8			
		26.00		236		29	35	29744
1167+26	*		375.5		34.5			
		24.00		215		42	51	29909

NOTES
1) Common Cut volume includes EBS excavation.
2) Salvaged/Unusable Pavement Material is included in Common Cut. This assumes the existing pavement is salvaged or wasted by the contractor. The existing pavement structure is not shown in the cross sections, but is included in the earthwork summary table as Salvaged/Unusable Pavement Material.
3) EBS excavation to be backfilled with Breaker Run and paid for as item 311.0110 Breaker Run.
4) Adjusted Fill = Fill * Fill Factor (1.20)
5) Mass Balance = Cut Volume – Adjusted Fill. A plus Mass Balance quantity indicates a waste volume of material. A minus quantity indicates a shortage of material.

SEE MISCELLANEOUS QUANTITY TABLES FOR EARTHWORK SUMMARY BY STAGE

FILE NAME: W:\x-Projects\RD\7140\project 1 dgn\090101_ew.dwg PLOT DATE: May 12, 2015 PLOT BY: luke0 PLOT SCALE: ROTATION:

I.D. 3360-09-70
STH 175
WASHINGTON COUNTY

STH 175 - RICHFIELD

*EBS EXCAVATION INCLUDED IN END AREA

STATION		DISTANCE FEET	COMMON CUT CUT END AREA S.F.	COMMON CUT VOL C.Y.	FILL FILL FACTOR = 1.20 FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
1167+50	*		108.0		60.3			
		25.00		99		60	72	29935
1167+75	*		105.8		70.0			
		25.00		99		67	81	29954
1168+00	*		108.7		75.7			
		50.00		205		159	191	29967
1168+50	*		112.3		96.4			
		27.00		115		87	104	29979
1168+77	*		118.5		76.9			
		23.00		98		59	70	30007
1169+00	*		112.7		61.1			
		50.00		382		80	96	30293
1169+50	*		300.2		25.1			
		50.00		375		26	31	30637
1170+00	*		105.1		3.0			
		11.00		43		1	1	30678
1170+11	*		104.6		2.8			
		7.00		27		1	1	30705
1170+18	*		104.5		2.6			
		24.00		94		3	3	30796
1170+42	*		107.6		3.3			
		8.00		32		2	3	30825
1170+50	*		106.7		11.5			
		2.00		8		1	1	30832
1170+52	*		106.9		10.9			
		18.00		70		6	7	30894
1170+70	*		103.2		7.6			
		30.00		116		8	10	31000
1171+00	*		104.8		6.9			
		38.00		148		18	22	31126
1171+38	*		105.5		19.2			
		12.00		47		9	11	31162
1171+50	*		105.8		23.2			
		50.00		204		54	65	31301
1172+00	*		114.3		34.9			
		14.00		60		19	22	31338
1172+14	*		115.6		37.1			
		36.00		154		47	57	31436
1172+50	*		115.5		33.7			
		32.00		139		25	30	31545
1172+82	*		118.4		8.0			
		18.00		79		3	4	31620
1173+00	*		119.9		2.3			
		20.00		87		1	1	31705
1173+20	*		113.9		1.0			
		30.00		118		1	1	31822
1173+50	*		98.1		0.4			
		13.00		55		0	0	31877
1173+63	*		129.3		0.0			
		15.00		66		0	0	31943
1173+78	*		109.0		0.0			
		22.00		98		0	0	32041
1174+00	*		131.2		0.0			
		13.00		65		0	0	32106
1174+13	*		138.0		0.0			
		34.00		181		0	0	32287
1174+47	*		149.7		0.0			
		3.00		16		0	0	32303

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STH 175
WASHINGTON COUNTY

STH 175 - RICHFIELD

*EBS EXCAVATION INCLUDED IN END AREA

STATION		DISTANCE FEET	COMMON CUT CUT END AREA S.F.	COMMON CUT VOL C.Y.	FILL FILL FACTOR = 1.20 FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
1174+50	*		146.4		0.0			
		20.00		113		0	0	32417
1174+70	*		160.0		0.0			
		30.00		172		0	0	32589
1175+00	*		149.9		0.0			
		5.00		28		0	0	32616
1175+05	*		147.8		0.0			
		13.00		73		0	0	32690
1175+18	*		157.3		0.0			
		13.00		77		0	0	32766
1175+31	*		160.8		0.0			
		12.00		72		0	0	32839
1175+43	*		165.4		0.0			
		7.00		43		0	0	32881
1175+50	*		162.5		0.0			
		17.00		96		0	0	32977
1175+67	*		142.7		0.0			
		18.00		94		0	0	33071
1175+85	*		138.1		0.0			
		15.00		75		0	0	33146
1176+00	*		131.3		0.0			
		2.00		8		0	0	33154
1176+02			82.2		0.0			
		25.00		75		0	0	33229
1176+27			80.4		0.1			
		18.00		54		0	0	33283
1176+45			80.9		0.0			
		5.00		15		0	0	33298
1176+50			83.2		0.0			
		9.00		28		0	0	33325
1176+59			82.6		0.0			
		13.00		40		0	0	33366
1176+72			85.2		0.0			
		8.00		26		0	0	33391
1176+80			87.8		0.0			
		4.00		12		0	0	33404
1176+84			80.8		0.0			
		11.00		33		0	0	33437
1176+95			80.8		0.0			
		5.00		15		0	0	33452
1177+00			80.9		0.0			
		3.00		9		0	0	33461
1177+03			81.8		0.0			
		30.00		89		0	0	33550
1177+33			78.5		0.0			
		3.00		9		0	0	33559
1177+36			78.9		0.0			
		14.00		41		0	0	33599
1177+50			78.0		0.0			
		8.00		23		0	0	33623
1177+58			79.8		0.0			
		12.00		36		0	0	33659
1177+70			84.2		0.0			
		7.00		22		0	0	33681
1177+77			83.8		0.0			
		23.00		70		0	0	33751
1178+00			80.9		0.0			
		5.00		15		0	0	33766

I.D. 3360-09-70
STH 175
WASHINGTON COUNTY

STH 175 - RICHFIELD

*EBS EXCAVATION INCLUDED IN END AREA

STATION		DISTANCE FEET	COMMON CUT CUT END AREA S.F.	COMMON CUT VOL C.Y.	FILL FILL FACTOR = 1.20 FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
1178+05			84.6		0.0			
		7.00		22		0	0	33788
1178+12			82.9		0.0			
		5.00		15		0	0	33803
1178+17			82.0		0.0			
		22.00		70		0	0	33874
1178+39			90.3		0.0			
		7.00		24		0	0	33897
1178+46			92.0		0.0			
		4.00		14		0	0	33911
1178+50			90.5		0.0			
		23.00		78		0	0	33988
1178+73			91.6		0.0			
		12.00		40		0	0	34028
1178+85			88.8		0.0			
		10.00		32		0	0	34061
1178+95			85.6		0.0			
		5.00		15		0	0	34076
1179+00			81.4		0.0			
		25.00		74		0	0	34150
1179+25			78.7		0.0			
		2.00		6		0	0	34156
1179+27			77.8		0.0			
		23.00		63		0	0	34218
1179+50			69.2		0.8			
		6.00		15		0	0	34233
1179+56			67.5		0.8			
		15.00		37		1	1	34269
1179+71			64.4		1.2			
		29.00		63		3	3	34329
1180+00			53.8		4.1			
		24.00		46		4	4	34371
1180+24			49.4		3.9			
		26.00		45		5	6	34410
1180+50			44.4		6.6			
		38.00		62		13	16	34456
1180+88			43.2		12.3			
		12.00		18		8	10	34464
1181+00			37.4		24.4			
		50.00		96		37	44	34515
1181+50			66.4		15.6			
		2.00		5		1	1	34519
1181+52			67.3		15.6			
		32.00		62		31	38	34544
1181+84			37.8		37.4			
		16.00		25		22	26	34543
1182+00			47.8		36.8			
		35.00		64		38	45	34561
1182+35			50.5		21.5			
		15.00		30		10	12	34579
1182+50			58.2		14.6			
		23.00		50		10	12	34618
1182+73			60.1		8.5			
		27.00		68		5	6	34680
1183+00			76.7		2.3			
		19.00		58		1	1	34736
1183+19			87.3		0.6			
		29.00		100		0	0	34835

NOTES
1) Common Cut volume includes EBS excavation.
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3) EBS excavation to be backfilled with Breaker Run and paid for as item 311.0110 Breaker Run.
4) Adjusted Fill = Fill * Fill Factor (1.20)
5) Mass Balance = Cut Volume – Adjusted Fill. A plus Mass Balance quantity indicates a waste volume of material. A minus quantity indicates a shortage of material.

SEE MISCELLANEOUS QUANTITY TABLES FOR EARTHWORK SUMMARY BY STAGE

I.D. 3360-09-70
STH 175
WASHINGTON COUNTY

*EBS EXCAVATION INCLUDED IN END AREA

STH 175 - RICHFIELD

		COMMON CUT		FILL FILL FACTOR = 1.20			
STATION	DISTANCE FEET	CUT END AREA S.F.	VOL C.Y.	FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
1183+48		98.3		0.1			
	2.00		7		0	0	34843
1183+50		99.4		0.0			
	46.00		183		0	0	35026
1183+96		115.7		0.0			
	4.00		17		0	0	35043
1184+00		114.8		0.0			
	14.00		62		0	0	35105
1184+14		125.8		0.2			
	36.00		144		2	2	35248
1184+50		90.5		2.1			
	6.00		22		0	0	35269
1184+56		108.9		0.1			
	19.00		70		2	2	35337
1184+75		89.2		5.4			
	25.00		73		10	13	35398
1185+00		69.1		17.1			
	50.00		109		37	45	35462
1185+50		48.7		23.1			
	50.00		81		59	71	35472
1186+00		38.6		40.7			
	3.00		4		4	5	35471
1186+03		38.1		37.3			
	35.00		46		55	66	35450
1186+38		32.9		48.1			
	12.00		14		23	27	35438
1186+50		30.9		53.4			
	9.00		10		18	22	35426
1186+59		28.6		55.1			
	41.00		56		94	112	35369
1187+00		45.0		68.2			
	44.00		77		80	96	35350
1187+44		49.3		30.4			
	6.00		11		6	7	35353
1187+50		47.2		25.0			
	50.00		74		85	102	35324
1188+00		32.4		67.3			
	50.00		71		77	93	35302
1188+50		44.1		16.4			
	8.00		13		4	5	35310
1188+58		46.6		12.9			
	42.00		89		15	18	35381
1189+00		67.4		6.1			
	50.00		130		14	17	35494
1189+50		73.2		9.4			
	50.00		143		17	20	35618
1190+00		81.7		8.6			
	50.00		151		17	21	35748
1190+50		81.6		10.0			
	46.00		146		9	10	35883
1190+96		89.6		0.1			
	4.00		13		0	0	35897
1191+00		87.6		0.1			
	50.00		147		12	15	36029
1191+50		71.0		13.1			
	50.00		127		21	25	36130
1192+00		65.9		9.5			
	50.00		306		19	22	36414

I.D. 3360-09-70
STH 175
WASHINGTON COUNTY

*EBS EXCAVATION INCLUDED IN END AREA

STH 175 - RICHFIELD

		COMMON CUT		FILL FILL FACTOR = 1.20			
STATION	DISTANCE FEET	CUT END AREA S.F.	VOL C.Y.	FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
1192+50		264.9		10.7			
	50.00		302		12	15	36701
1193+00		60.7		2.3			
	50.00		118		12	14	36805
1193+50		66.7		10.6			
	26.00		62		14	17	36850
1193+76		62.2		18.8			
	29.00		68		18	21	36897
1194+05		64.2		14.4			
		TOTAL	46594		8081	9697	

NOTES
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3) EBS excavation to be backfilled with Breaker Run and paid for as item 311.0110 Breaker Run.
4) Adjusted Fill = Fill * Fill Factor (1.20)
5) Mass Balance = Cut Volume – Adjusted Fill. A plus Mass Balance quantity indicates a waste volume of material. A minus quantity indicates a shortage of material.

SEE MISCELLANEOUS QUANTITY TABLES FOR EARTHWORK SUMMARY BY STAGE

FILE NAME: W:\x-Projects\RD\7140\project 1 dgn\090101_ew.dwg PLOT DATE: May 12, 2015 PLOT BY: luke0 PLOT SCALE: ROTATION:

I.D. 3360-09-70
STH 175
WASHINGTON COUNTY

*EBS EXCAVATION INCLUDED IN END AREA

SOUTH LEG - STH 167 ROUNDABOUT

COMMON CUT — FILL FILL FACTOR = 1.20

STATION	DISTANCE FEET	CUT END AREA S.F.	CUT VOL C.Y.	FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
1147+00"A"		99.4		55.9			
	50.00		201		77	92	109
1147+50"A"		117.9		26.9			
	50.00		248		40	48	309
1148+00"A"		149.6		16.4			
	50.00		297		37	44	562
1148+50"A"		171.5		23.6			
	50.00		375		22	27	910
1149+00"A"		234.0		0.3			
	33.00		319		0	0	1229
1149+33"A"		288.1		0.0			
	17.00		167		0	0	1397
1149+50"A"		243.4		0.0			
	50.00		423		3	3	1816
1150+00"A"		213.2		2.8			
	50.00		339		7	9	2146
1150+50"A"		152.4		5.0			
	50.00		213		47	56	2302
1151+00"A"		77.3		45.7			
	50.00		90		164	196	2196
1151+50"A"		20.0		130.9			
TOTALS		2672			397	476	

I.D. 3360-09-70
STH 175
WASHINGTON COUNTY

*EBS EXCAVATION INCLUDED IN END AREA

NORTH LEG - STH 167 ROUNDABOUT

COMMON CUT — FILL FILL FACTOR = 1.20

STATION	DISTANCE FEET	CUT END AREA S.F.	CUT VOL C.Y.	FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
1153+00"E"		0.0		310.8			
	50.00		72		746	896	-823
1153+50"E"		77.9		495.2			
	50.00		113		950	1140	-1850
1154+00"E"		44.4		531.0			
	50.00		41		1143	1372	-3181
1154+50"E"		0.0		703.9			
	50.00		0		1189	1426	-4608
1155+00"E"		0.0		579.9			
	50.00		0		881	1057	-5665
1155+50"E"		0.0		371.6			
	50.00		36		498	598	-6227
1156+00"E" *		38.8		166.8			
	18.00		35		87	105	-6297
1156+18"E" *		65.4		95.3			
	32.00		98		88	105	-6305
1156+50"E" *		100.1		52.8			
	50.00		214		72	86	-6177
1157+00"E" *		131.3		24.9			
	50.00		265		45	54	-5966
1157+50"E" *		154.5		23.5			
	50.00		302		43	51	-5715
1158+00"E" *		171.4		22.8			
TOTALS		1176			5743	6891	

I.D. 3360-09-72
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WASHINGTON COUNTY

ROUNDABOUT CIRCLE - STH 167 ROUNDABOUT

COMMON CUT — FILL FILL FACTOR = 1.20

STATION	DISTANCE FEET	CUT END AREA S.F.	CUT VOL C.Y.	FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
1151+50		0.0		348.3			
	50.00		0		787	944	-944
1152+00		0.0		501.3			
	25.00		1		449	539	-1482
1152+25		1.9		468.9			
	25.00		6		396	475	-1951
1152+50		11.4		387.0			
	50.00		11		881	1057	-2998
1153+00		0.0		564.3			
TOTALS	17			2513	3015		

NOTES
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3) EBS excavation to be backfilled with Breaker Run and paid for as item 311.0110 Breaker Run.
4) Adjusted Fill = Fill * Fill Factor (1.20)
5) Mass Balance = Cut Volume – Adjusted Fill. A plus Mass Balance quantity indicates a waste volume of material. A minus quantity indicates a shortage of material.

SEE MISCELLANEOUS QUANTITY TABLES FOR EARTHWORK SUMMARY BY STAGE

I.D. 3360-09-70
STH 175
WASHINGTON COUNTY

WEST LEG - STH 167 ROUNDABOUT

COMMON CUT — FILL FACTOR = 1.20

STATION	DISTANCE FEET	END AREA S.F.	VOL C.Y.	FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
678+00"G"		68.4		0.0			
	50.00		153		0	0	153
678+50"G"		97.3		0.0			
	50.00		174		27	32	296
679+00"G"		91.0		29.0			
	50.00		169		45	55	410
679+50"G"		91.6		20.1			
	50.00		178		28	34	554
680+00"G"		100.5		10.1			
	50.00		191		10	12	734
680+50"G"		106.2		0.8			
	21.00		109		0	0	843
680+71"G"		175.3		0.0			
	29.00		165		0	0	1007
681+00"G"		131.3		0.2			
	50.00		254		0	0	1261
681+50"G"		143.0		0.0			
	50.00		247		3	3	1505
682+00"G"		123.4		2.8			
	50.00		247		16	20	1732
682+50"G"		143.6		14.9			
	42.00		303		32	38	1997
682+92"G"		245.6		25.6			
	8.00		72		6	8	2061
683+00"G"		240.2		17.3			
	50.00		347		30	37	2372
683+50"G"		134.6		15.6			
	50.00		245		38	45	2571
684+00"G"		129.6		25.0			
	50.00		239		45	54	2756
684+50"G"		128.0		23.7			
	50.00		237		29	35	2957
685+00"G"		127.6		7.8			
	42.00		180		20	25	3113
685+42"G"		103.8		18.5			
	8.00		30		4	5	3137
685+50"G"		96.3		10.5			
	50.00		161		53	63	3235
686+00"G"		77.2		46.3			
	50.00		130		118	141	3224
686+50"G"		63.4		80.9			
	50.00		75		127	152	3147
687+00"G"		17.6		55.8			
	50.00		16		141	169	2994
687+50"G"		0.0		96.7			
	6.53		0		23	28	2966
687+56.53"G"		0.0		96.7			
TOTALS		3921			796	956	

I.D. 3360-09-70
STH 175
WASHINGTON COUNTY

EAST LEG - STH 167 ROUNDABOUT

COMMON CUT — FILL FACTOR = 1.20

STATION	DISTANCE FEET	END AREA S.F.	VOL C.Y.	FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
688+69.45"C"		2.6		98.7			
	30.55		3		112	134	-131
689+00"C"		2.6		98.7			
	50.00		10		171	205	-326
689+50"C"		8.4		85.9			
	50.00		18		154	185	-492
690+00"C"		11.5		80.5			
	50.00		51		96	116	-557
690+50"C"		43.6		23.6			
	50.00		176		22	26	-407
691+00"C"		146.6		0.0			
	25.00		120		1	1	-288
691+25"C"		113.5		1.8			
	25.00		84		29	34	-238
691+50"C"		68.7		59.8			
	50.00		137		92	110	-211
692+00"C"		78.9		39.2			
	19.00		60		18	22	-173
692+19"C"		91.9		12.7			
	31.00		94		45	55	-133
692+50"C"		72.3		66.5			
	50.00		115		114	137	-155
693+00"C"		51.8		56.6			
	50.00		79		84	101	-177
693+50"C"		33.1		34.0			
	34.00		54		30	37	-159
693+84"C"		53.1		14.4			
	16.00		34		6	7	-132
694+00"C"		61.6		4.6			
	42.00		114		27	32	-50
694+42"C"		85.3		30.2			
	8.00		22		7	8	-37
694+50"C"		61.4		17.5			
	50.00		105		27	32	36

I.D. 3360-09-70
STH 175
WASHINGTON COUNTY

EAST LEG - STH 167 ROUNDABOUT

COMMON CUT — FILL FACTOR = 1.20

STATION	DISTANCE FEET	END AREA S.F.	VOL C.Y.	FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
695+00"C"		51.5		11.2			
	5.00		9		3	3	42
695+05"C"		50.2		16.9			
	45.00		75		34	41	76
695+50"C"		39.8		24.0			
	50.00		90		88	106	60
696+00"C"		57.2		71.3			
	50.00		103		141	169	-6
696+50"C"		54.2		81.0			
	50.00		104		122	146	-48
697+00"C"		58.3		50.7			
	50.00		127		83	100	-22
697+50"C"		78.6		39.4			
	50.00		145		65	77	46
698+00"C"		78.1		30.3			
	50.00		131		41	50	128
698+50"C"		63.6		14.4			
	22.00		56		8	10	173
698+72"C"		73.0		6.0			
	28.00		83		5	6	250
699+00"C"		86.4		4.0			
	50.00		146		4	5	391
699+50"C"		71.7		0.4			
	50.00		121		2	3	509
700+00"C"		58.5		2.2			
	19.60		42		1	1	551
700+19.60"C"		58.5		0.0			
TOTALS		2509			1632	1958	

NOTES
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SEE MISCELLANEOUS QUANTITY TABLES FOR EARTHWORK SUMMARY BY STAGE

I.D. 3360-09-70
STH 175
WASHINGTON COUNTY

HUBERTUS ROAD

		COMMON CUT		FILL FILL FACTOR = 1.20			
STATION	DISTANCE FEET	END AREA S.F.	VOL C.Y.	FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
97+00"HU"		0.0		0.0			
	50.00		48		25	31	17
97+50"HU"		51.6		27.5			
	50.00		96		46	55	58
98+00"HU"		52.6		22.4			
	50.00		112		27	32	138
98+50"HU"		68.4		6.5			
	50.00		176		6	7	307
99+00"HU"		121.4		0.0			
	50.00		360		0	0	667
99+50"HU"		267.7		0.0			
	31.00		427		0	0	1094
99+81"HU"		476.9		0.0			

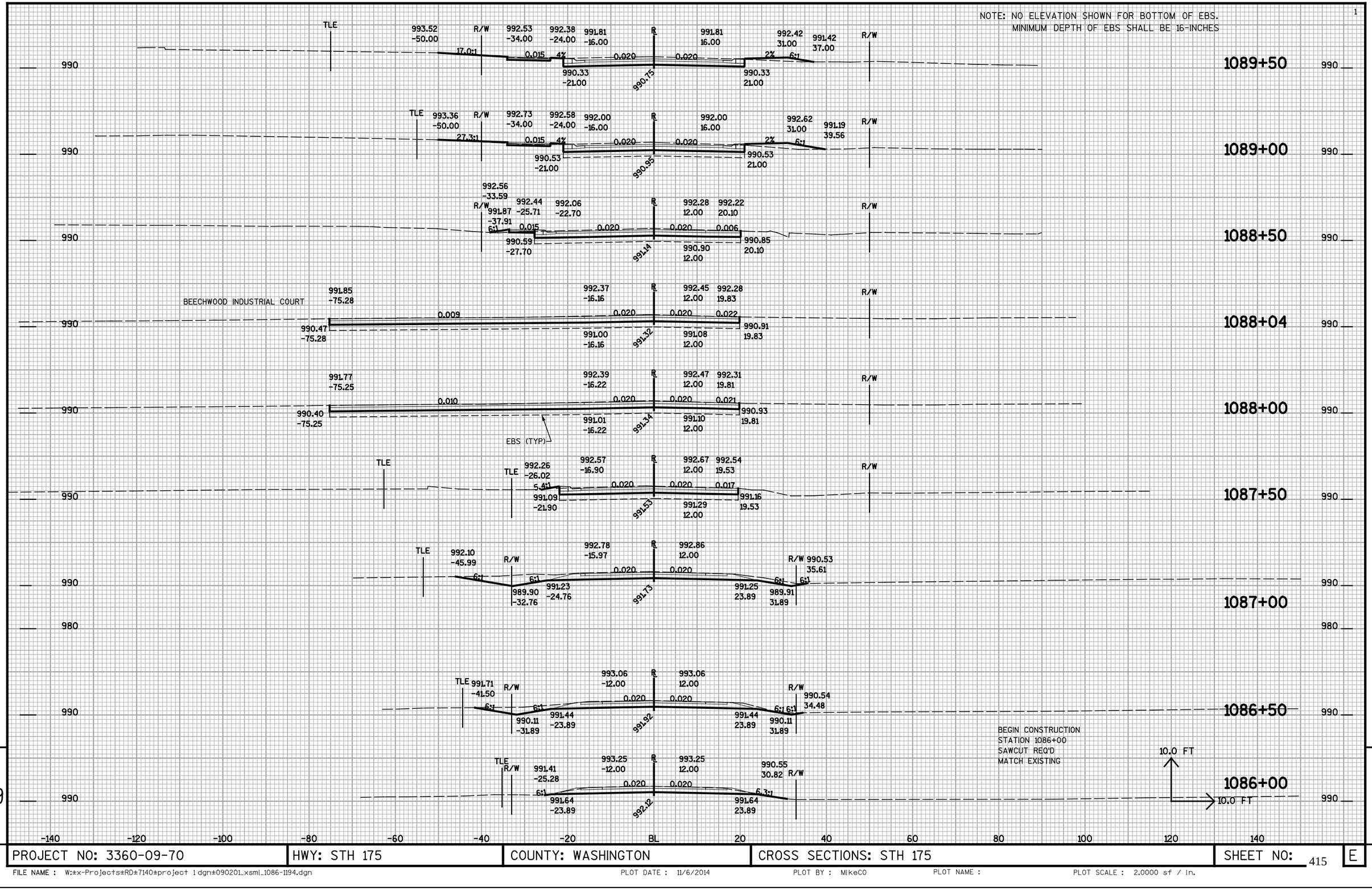
STH 175

100+19"HU"		469.9		0.0			
	31.00		382		0	0	1476
100+50"HU"		195.1		0.0			
	50.00		268		0	0	1744
101+00"HU"		94.6		0.2			
	32.00		111		0	0	1855
101+32"HU"		92.0		0.0			
	18.00		54		2	2	1907
101+50"HU"		71.2		4.6			
	50.00		118		14	17	2009
102+00"HU"		56.7		10.8			
	31.00		62		12	14	2056
102+31"HU"		51.2		10.2			
	19.00		38		5	7	2088
102+50"HU"		57.1		5.4			
	50.00		120		8	10	2198
103+00"HU"		72.6		3.7			
	50.00		129		6	7	2319
103+50"HU"		66.9		3.0			
	5.00		6		0	0	2325
103+55"HU"		0.0		0.0			
TOTALS			2509		153	183	

NOTES
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SEE MISCELLANEOUS QUANTITY TABLES FOR EARTHWORK SUMMARY BY STAGE

NOTE: NO ELEVATION SHOWN FOR BOTTOM OF EBS.
MINIMUM DEPTH OF EBS SHALL BE 16-INCHES

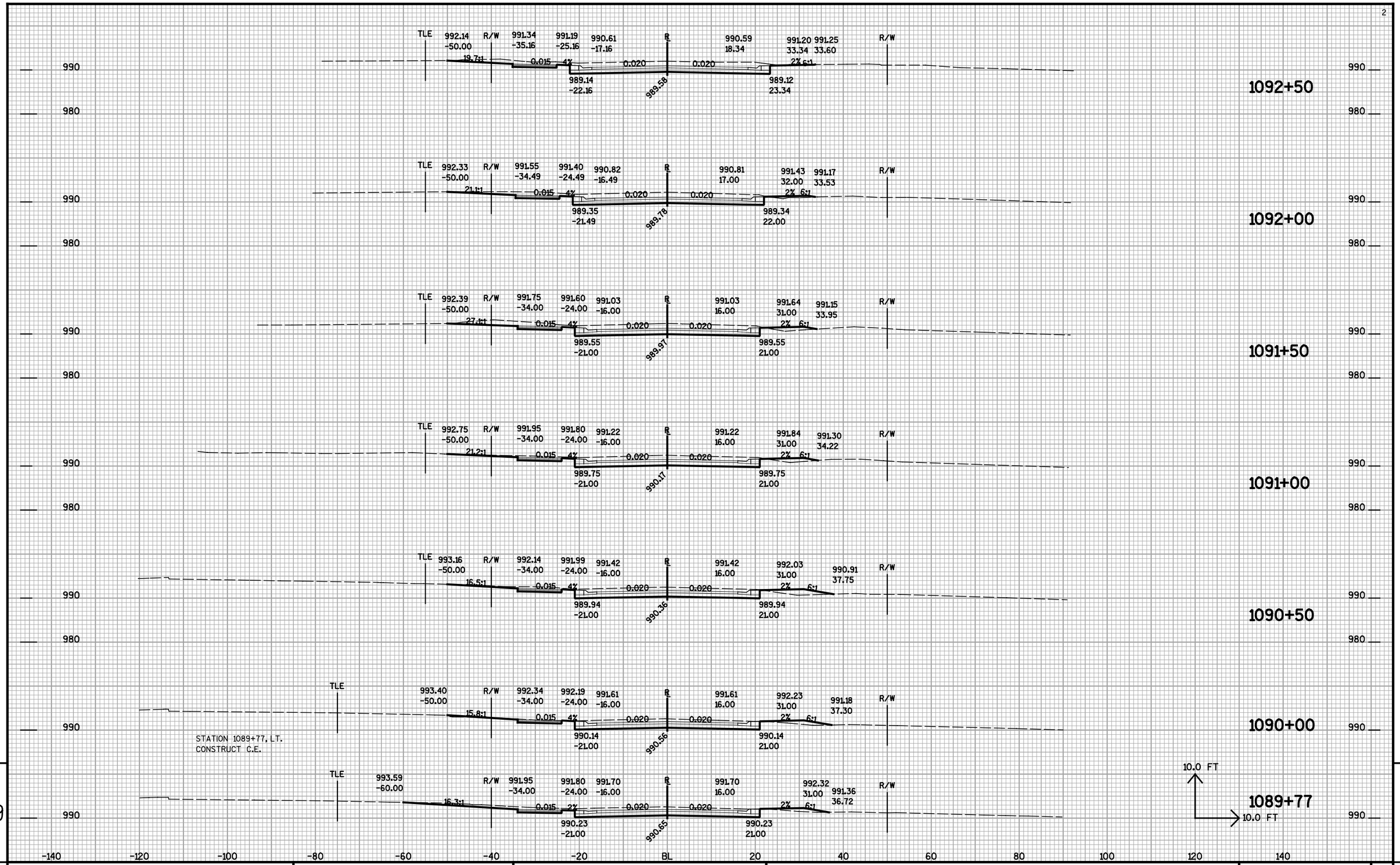


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9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 415	E

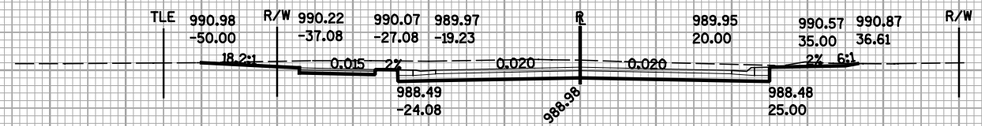
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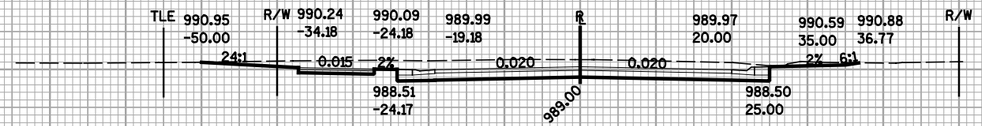
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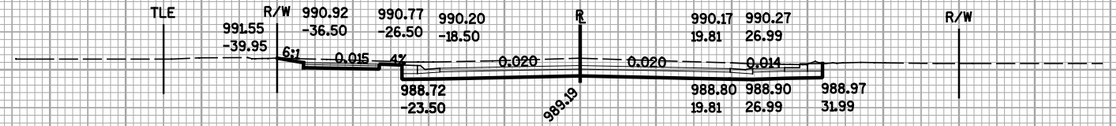
STATION 1094+04, LT.
CONSTRUCT C.E.



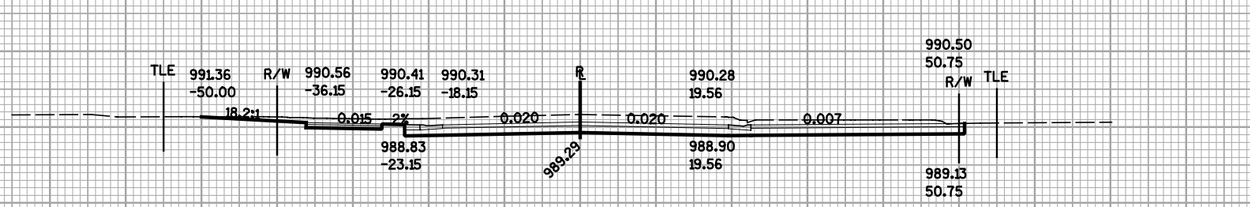
1094+04



1094+00



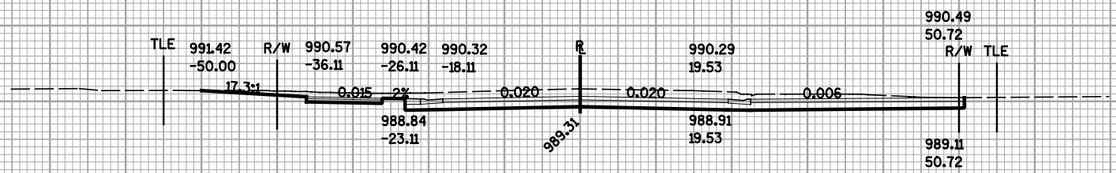
1093+50



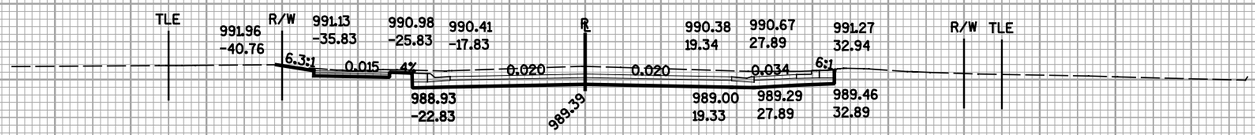
1093+24

STATION 1093+24, RT.
CONSTRUCT C.E.

STATION 1093+21, LT
CONSTRUCT C.E.



1093+21



1093+00

10.0 FT
10.0 FT

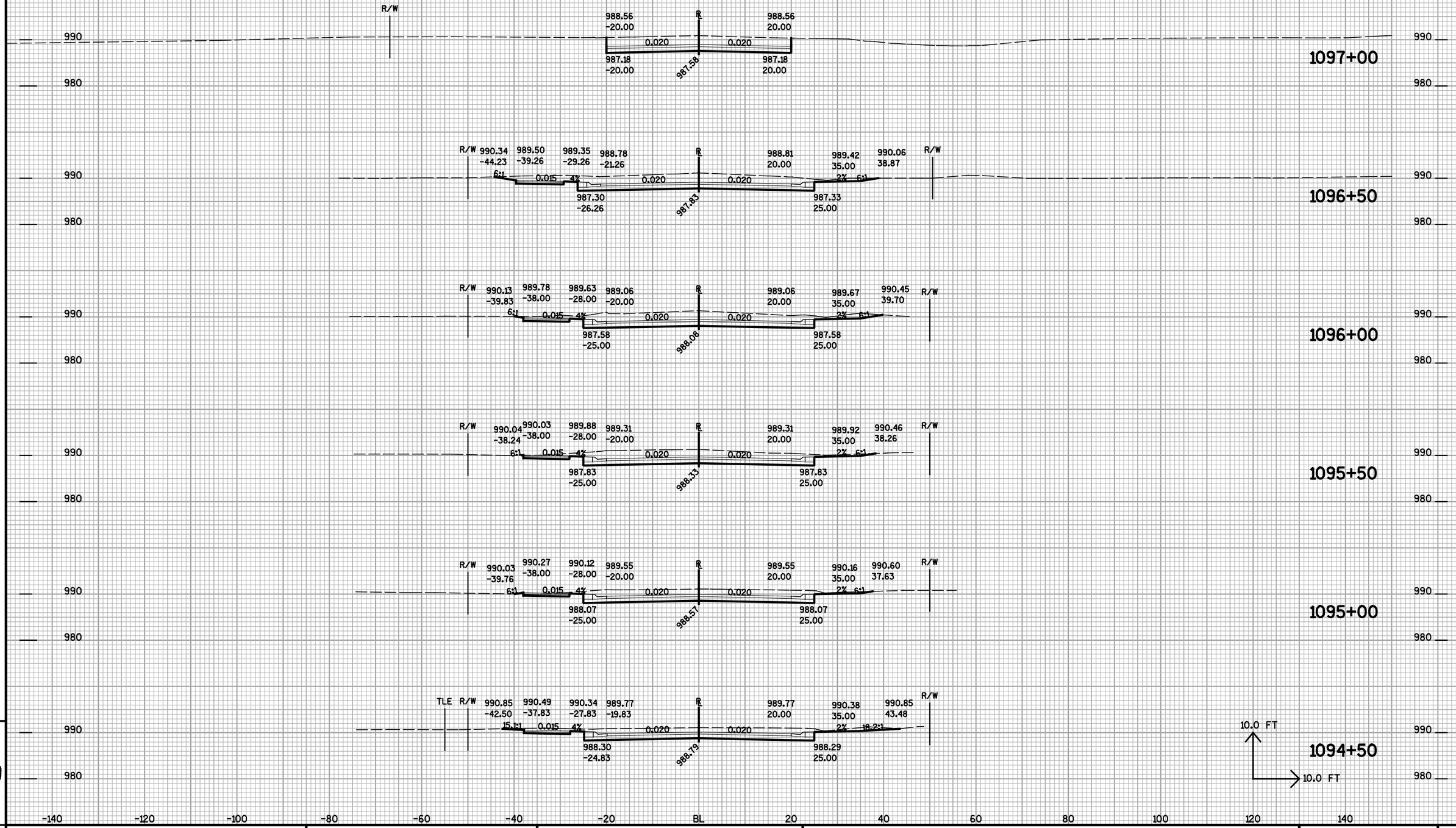
990 980 990 980 990 980 990 980 990 980 990 980 990 980 990 980 990 980

-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

9 9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 417	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.



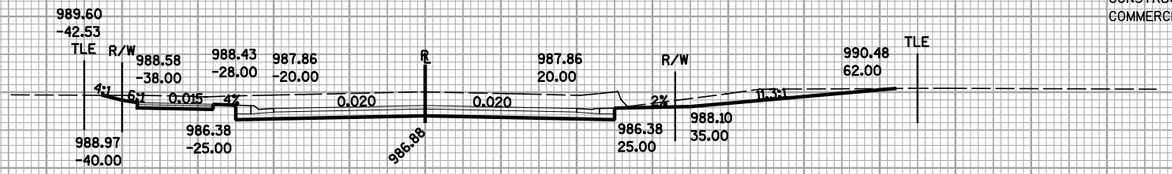
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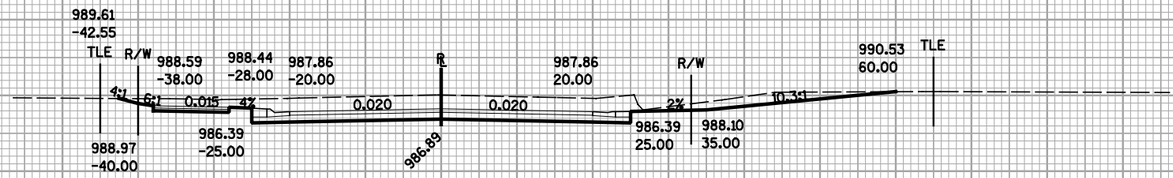
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 418	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.

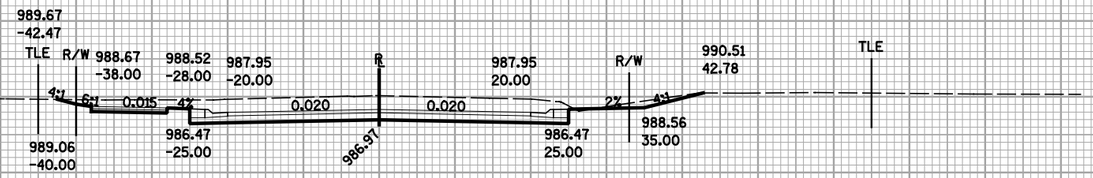
STATION 1099+05, RT
CONSTRUCT C.E. &
COMMERCIAL LOT



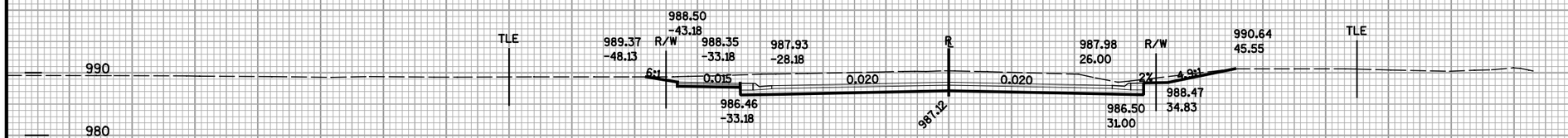
1099+05



1099+00



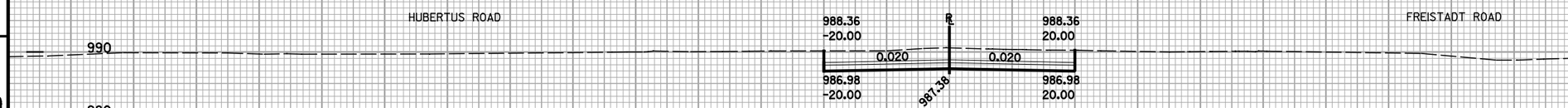
1098+50



1098+00



1097+50



1097+40

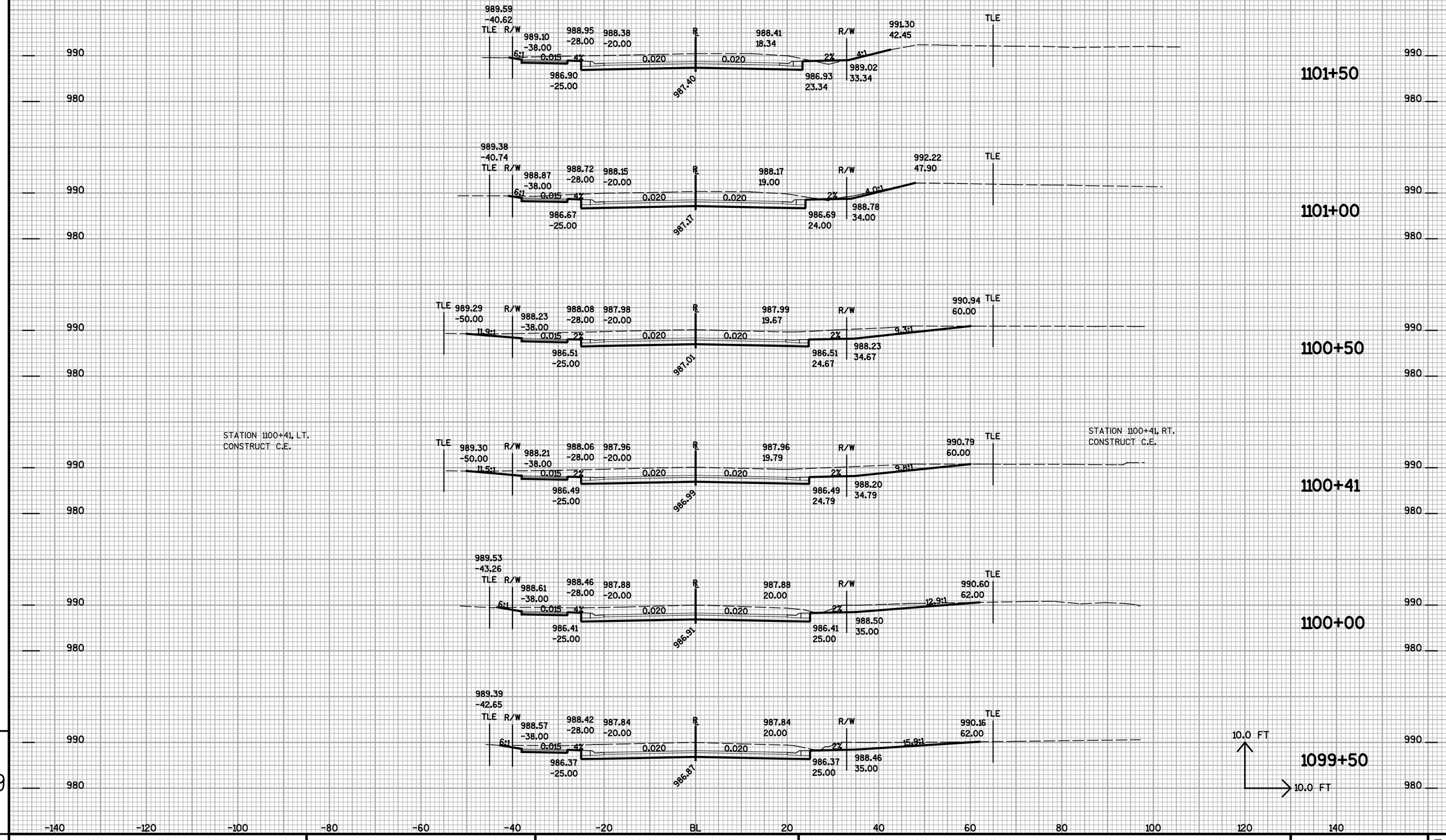
990 980 990 980 990 980 990 980 990 980 990 980 990 980

-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

9 9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 419	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.

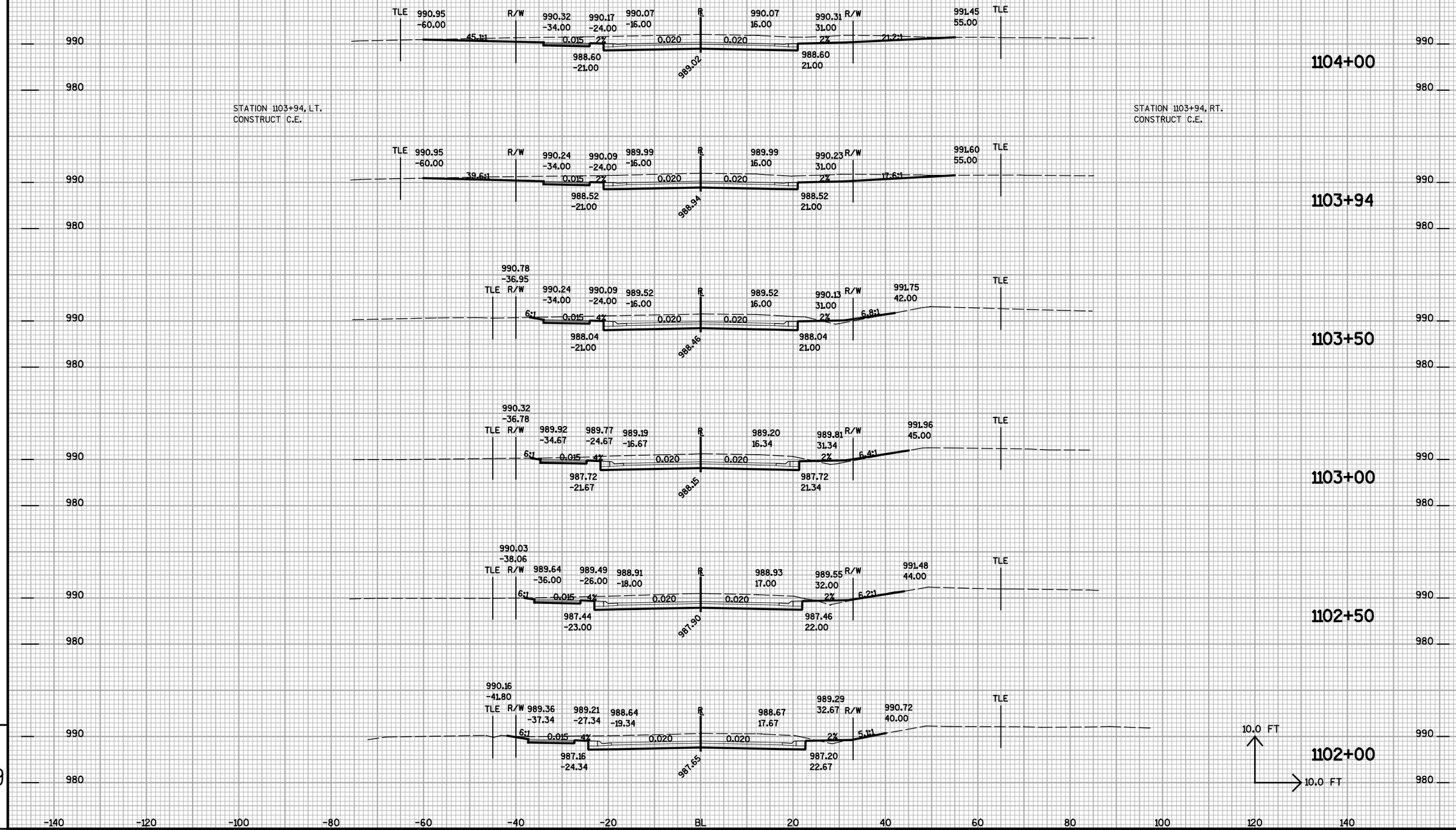


9

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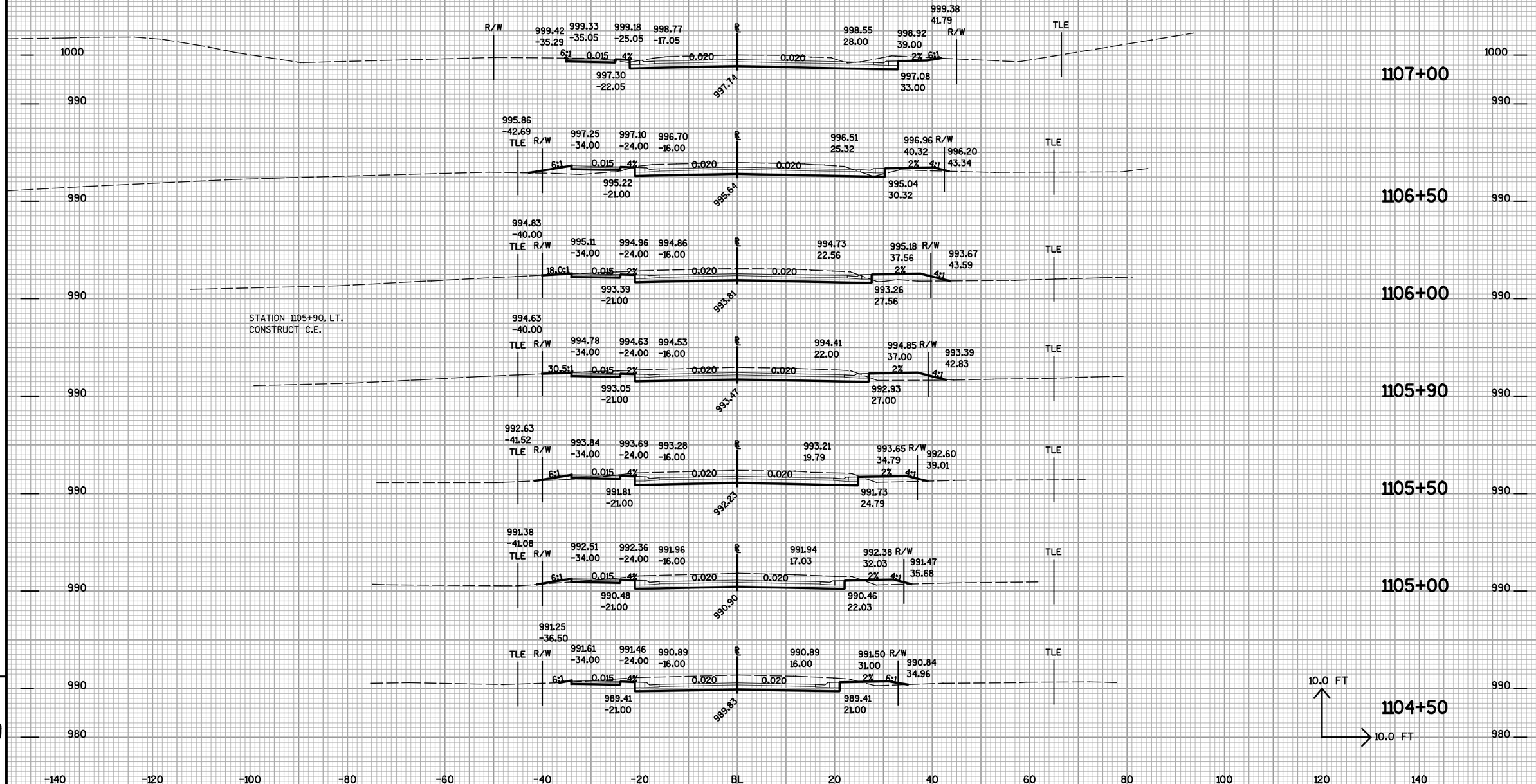
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 420	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.



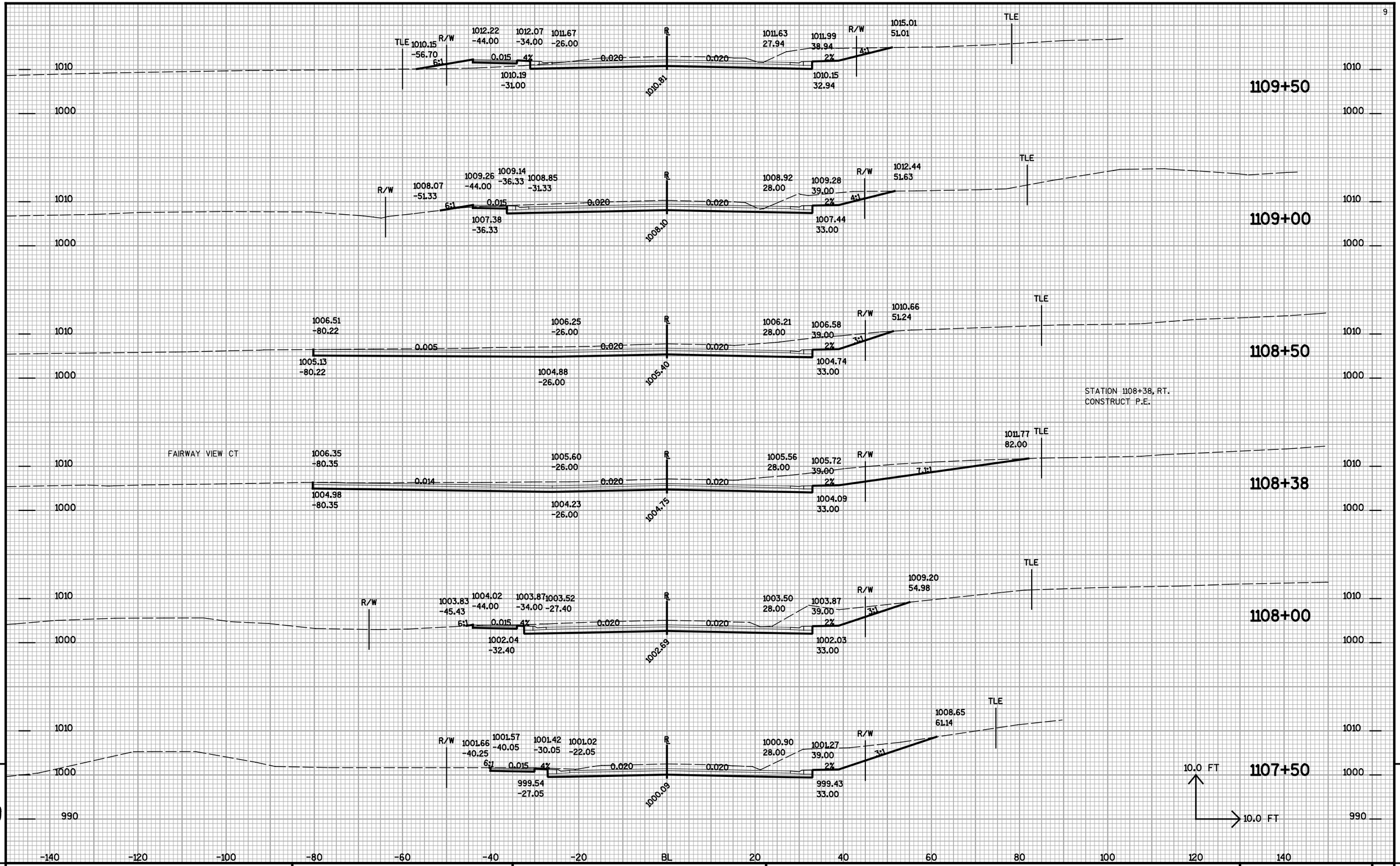
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 421	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.



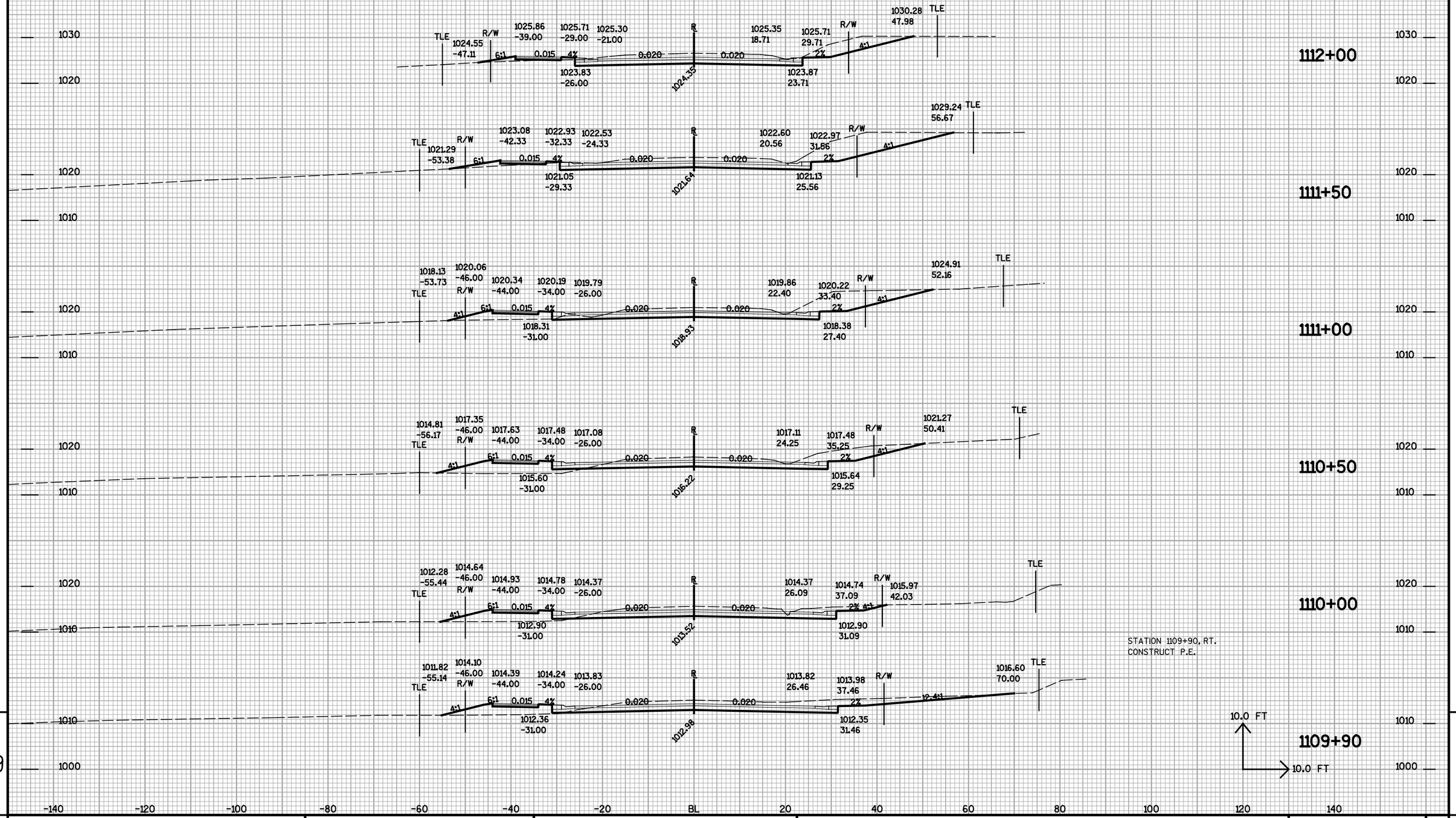
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 422	E

FILE NAME : W:\x-Projects\RD\7140\project 1.dgn\090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.



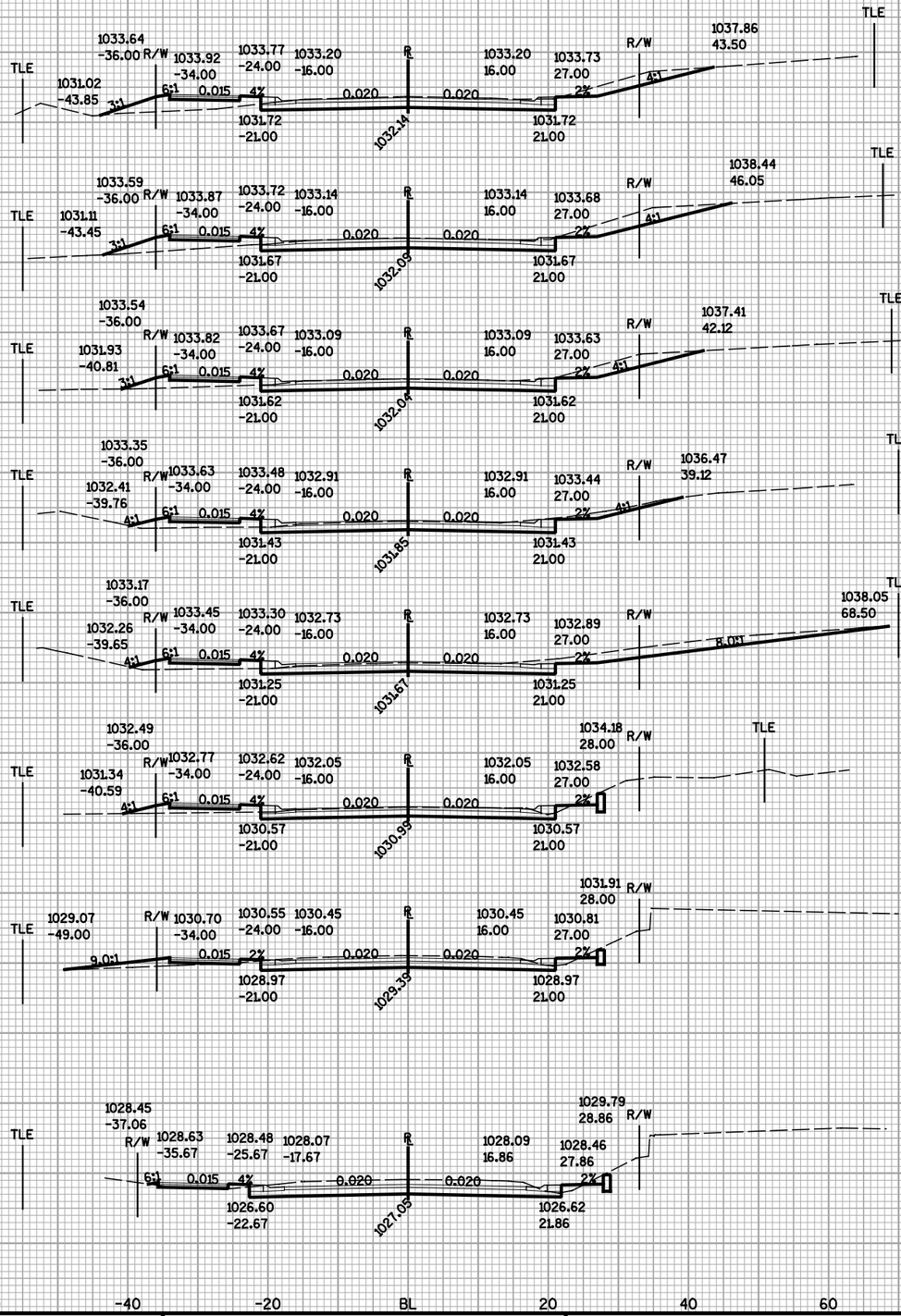
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 423	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsmi_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 424 E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.



STATION 1113+85, RT.
CONSTRUCT P.E.

STATION 1113+50, RT
END WALL MODULAR BLOCK GRAVITY

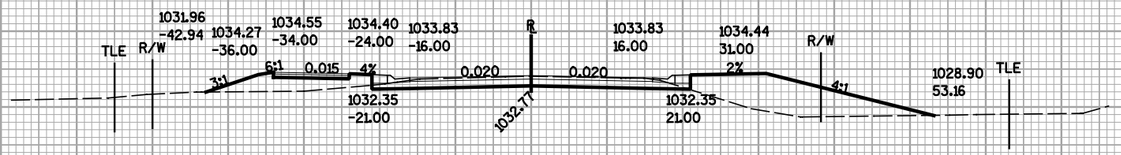
STATION 1113+00, LT
CONSTRUCT P.E..

STATION 1112+50, RT
BEGIN WALL MODULAR BLOCK GRAVITY

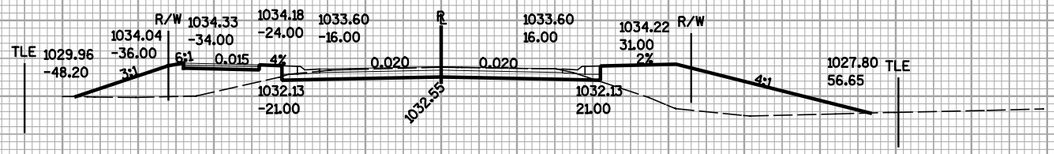
10.0 FT
10.0 FT

-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

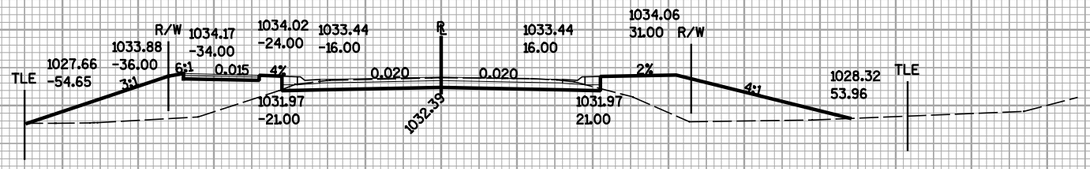
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 425	E



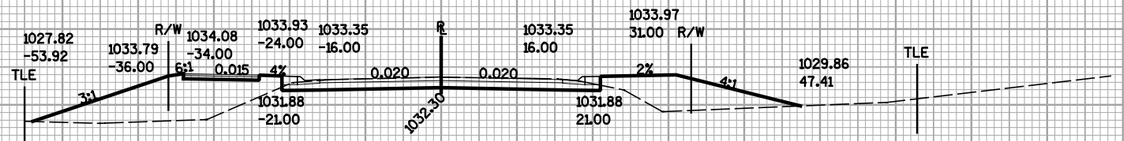
1118+50



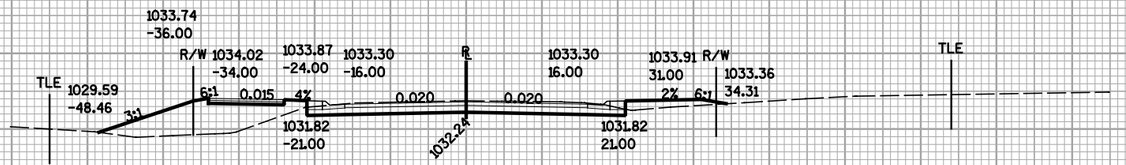
1118+00



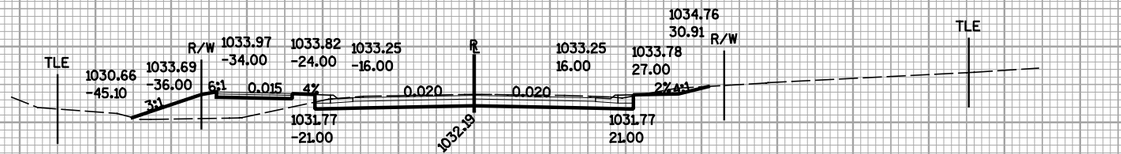
1117+50



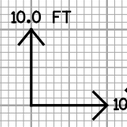
1117+00



1116+50



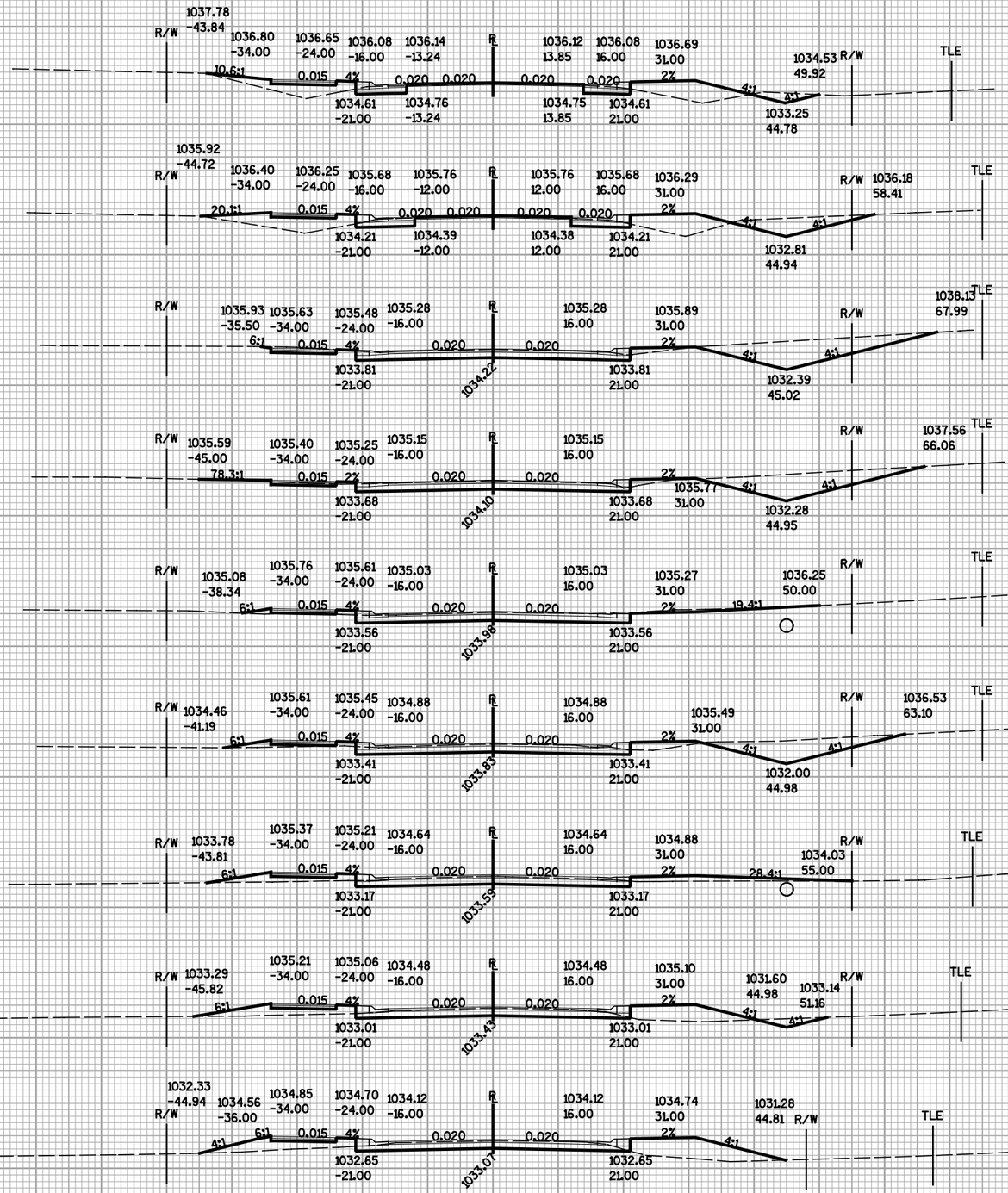
1116+00



-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 426	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.



STATION 1120+34, LT.
CONSTRUCT F.E.

STA. 1120+19, RT.
CONSTRUCT P.E.
1 - 24" X 30' CPCS
2 - AECPS

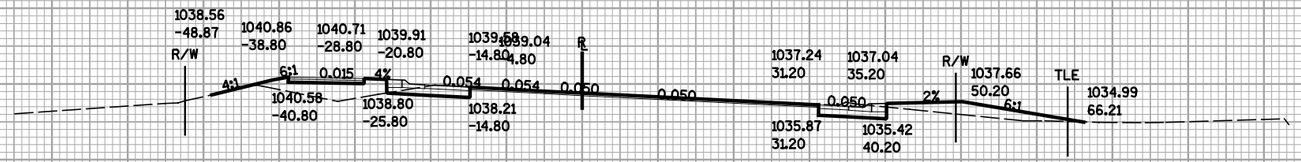
STA. 1119+70, RT
CONSTRUCT P.E.
1 - 24" X 20' CPCS
2 - AECPS

9

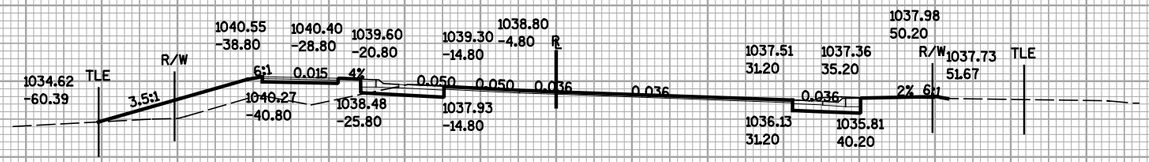
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PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 427	E

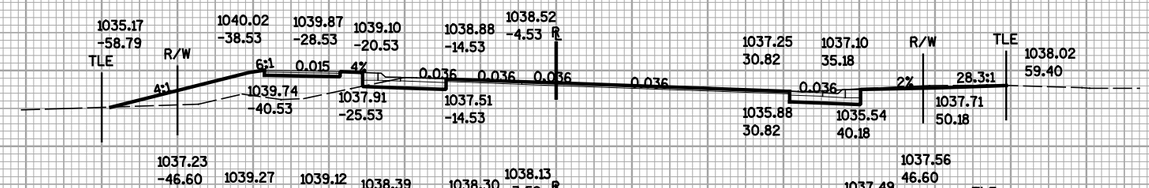
FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.



1125+00

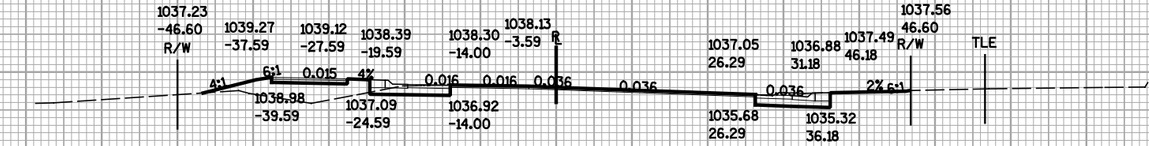


1124+50

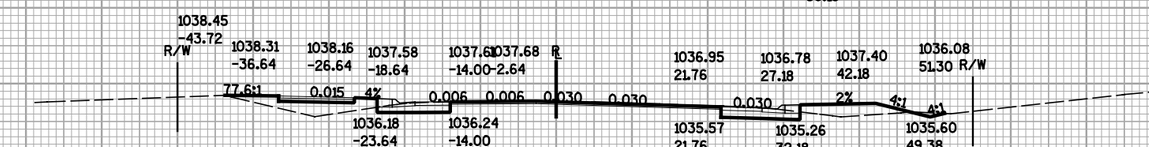


1124+00

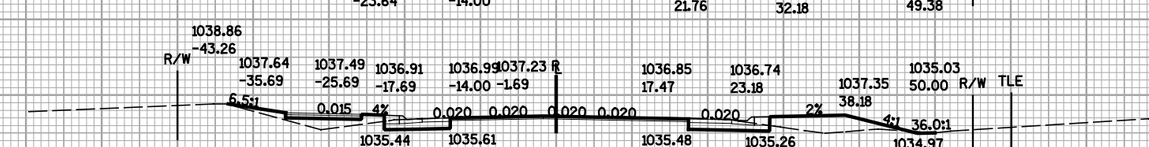
STATION 1124+00, RT.
CONSTRUCT P.E.



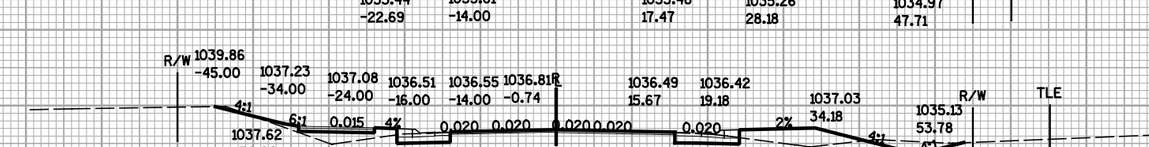
1123+50



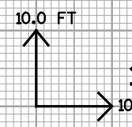
1123+00



1122+50



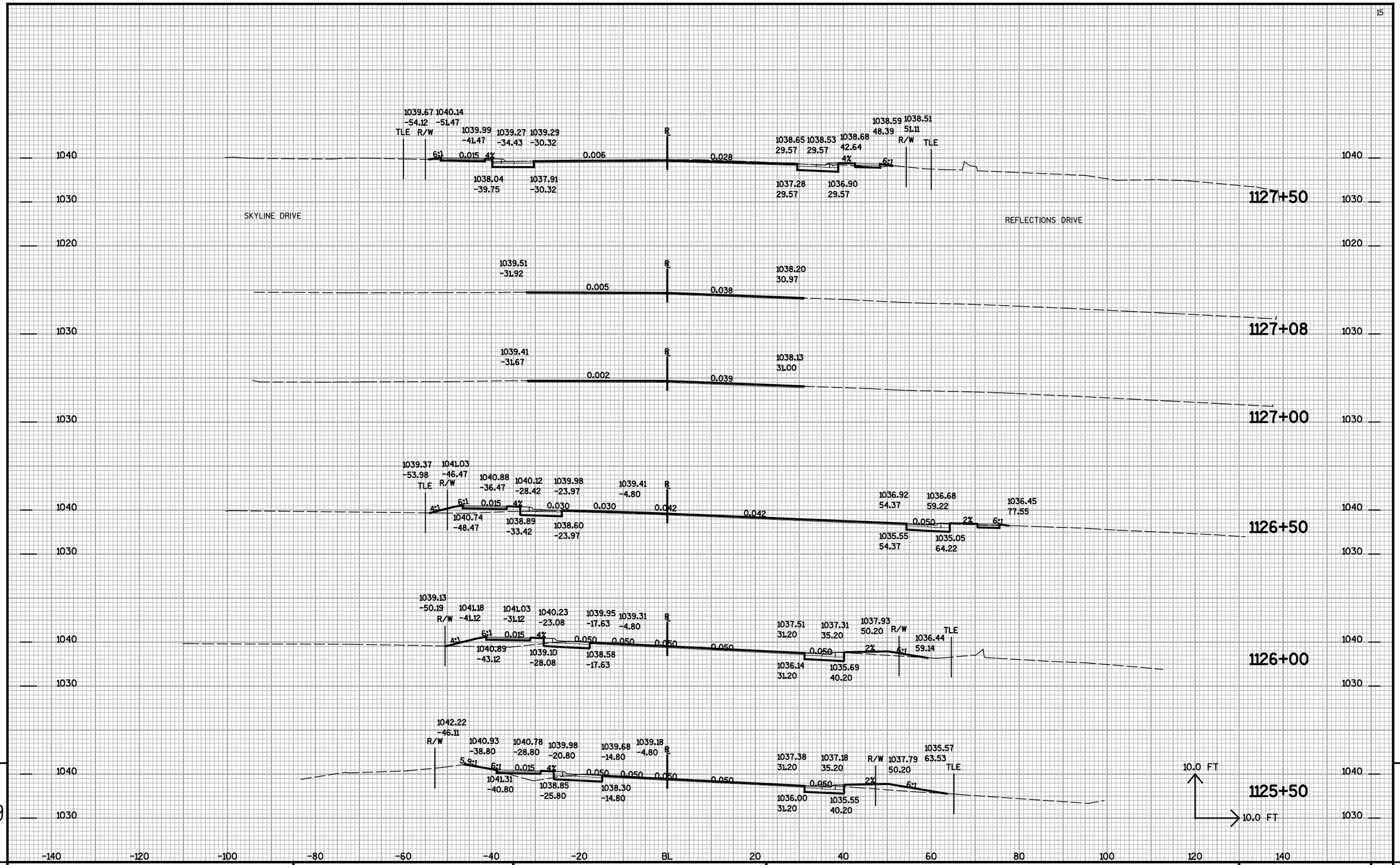
1122+00



-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 428	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

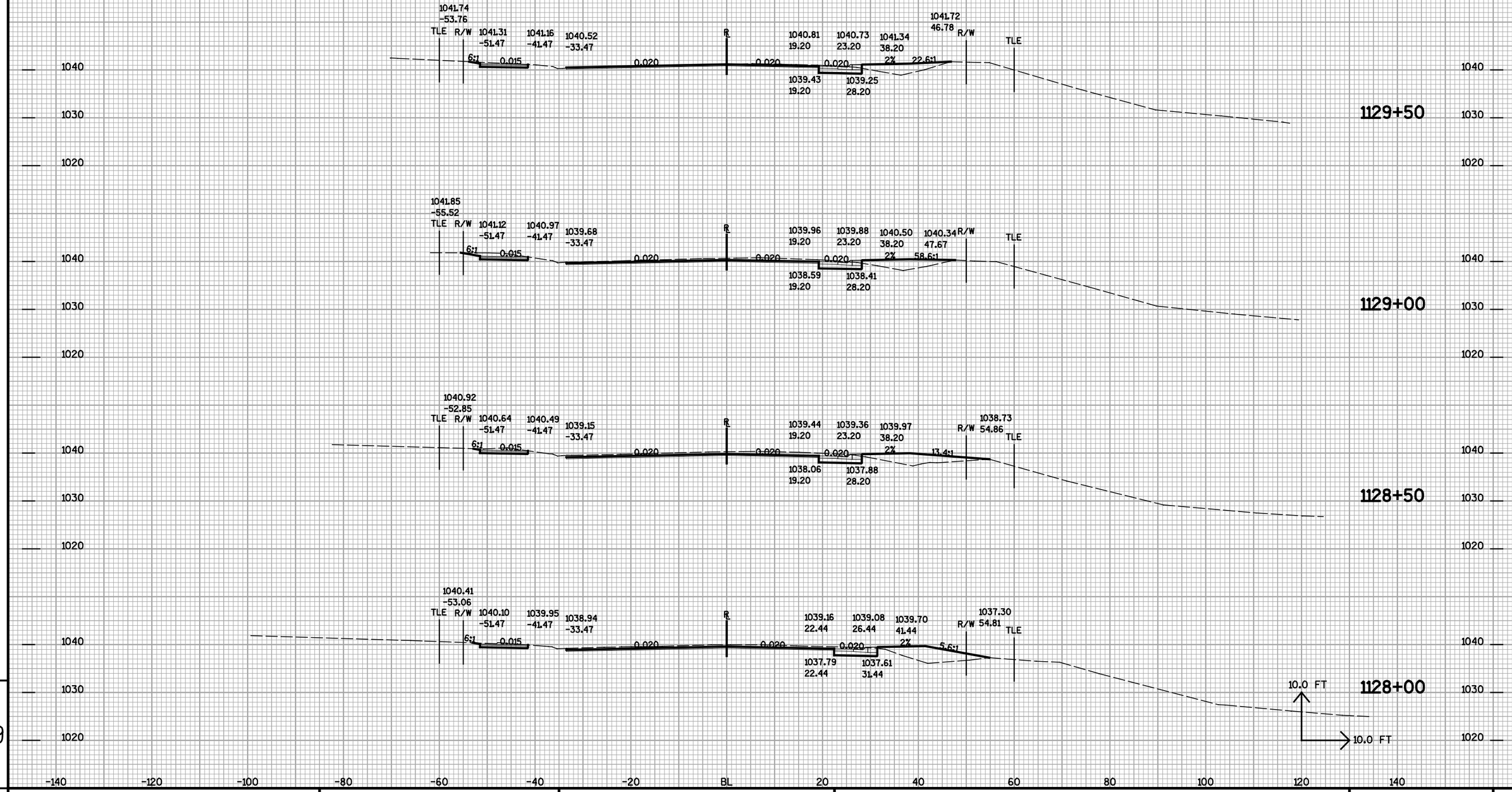


9

9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 429	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.

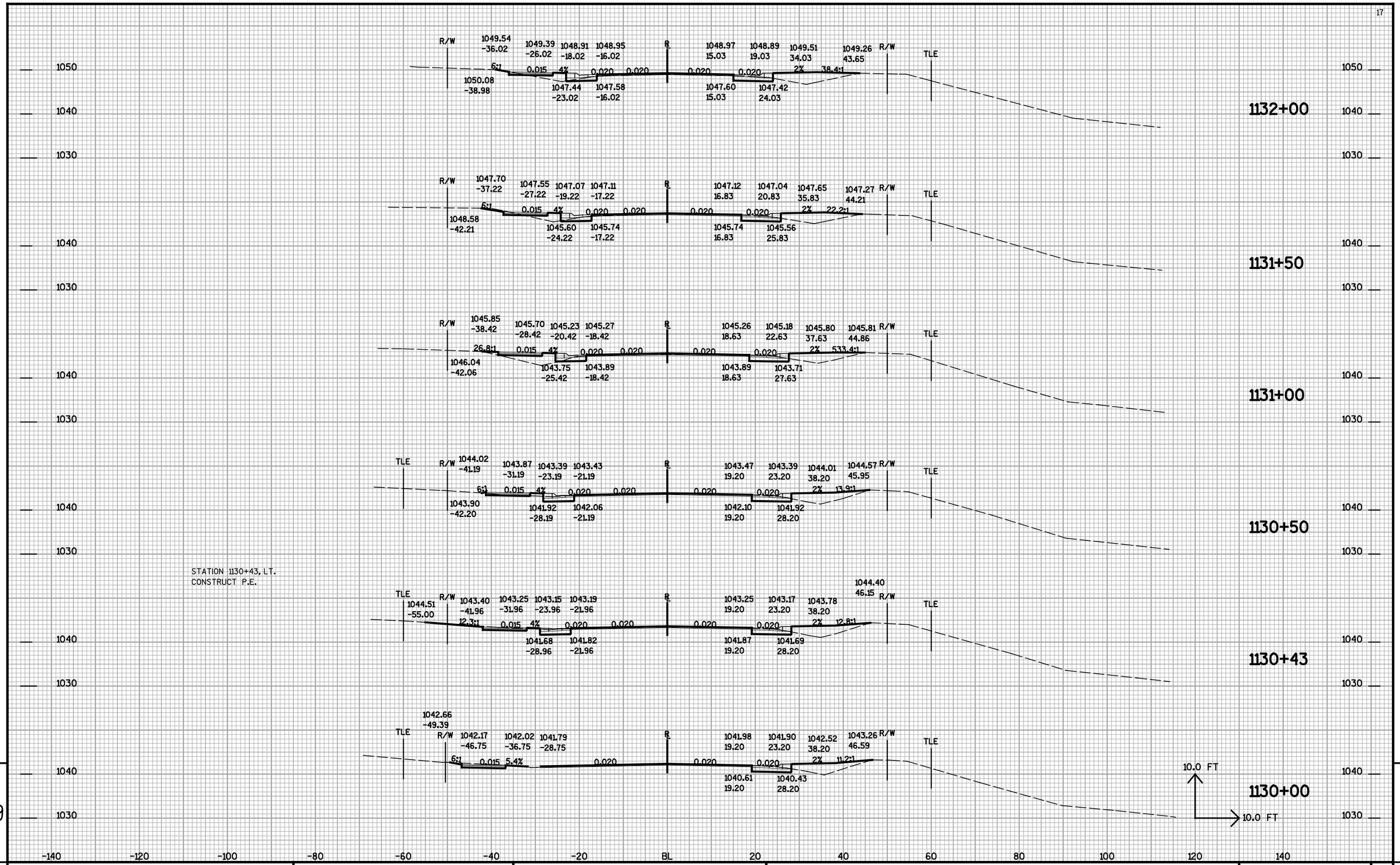


9

9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 430	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.

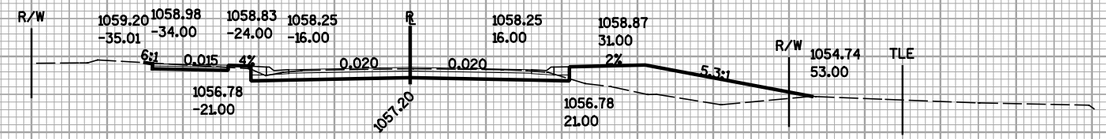


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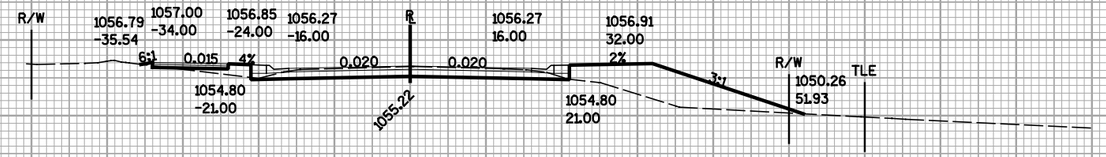
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PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 431	E

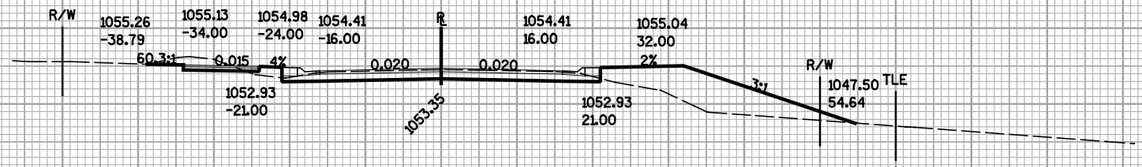
FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 12/11/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.



1134+50



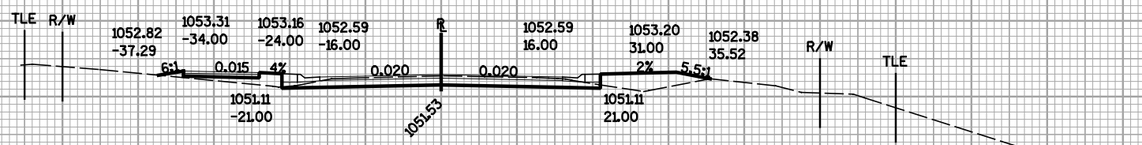
1134+00



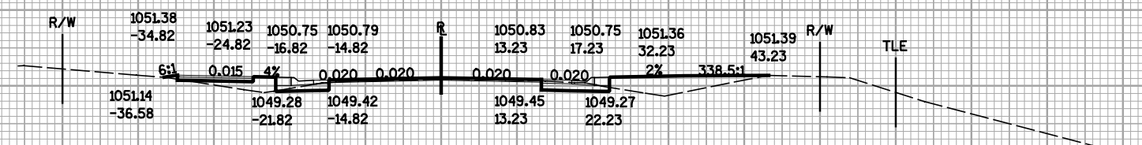
1133+50

STATION 1133+35, LT.
CONSTRUCT P.E.

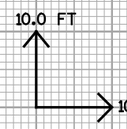
1133+35



1133+00



1132+50



1050 1040 1050 1040 1050 1040 1050 1040 1050 1040 1050 1040 1030

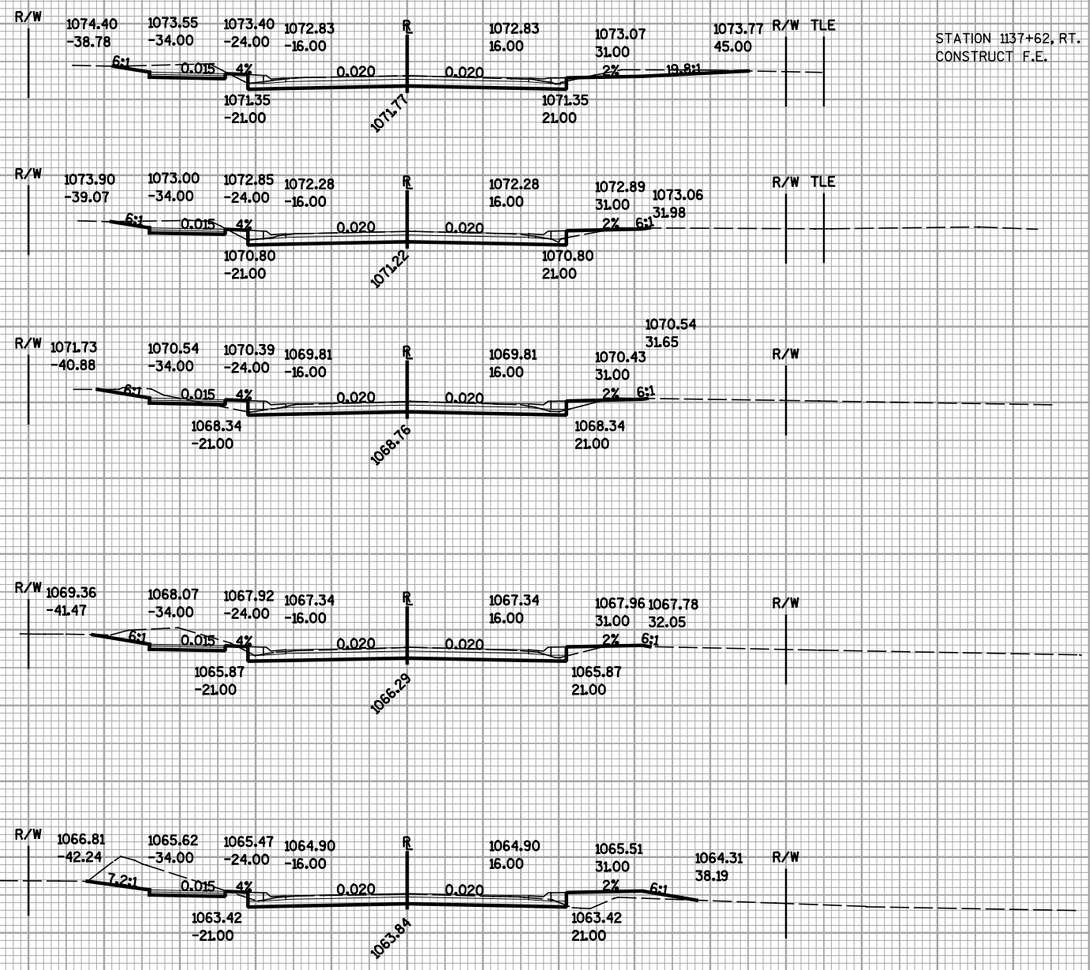
-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

9 9

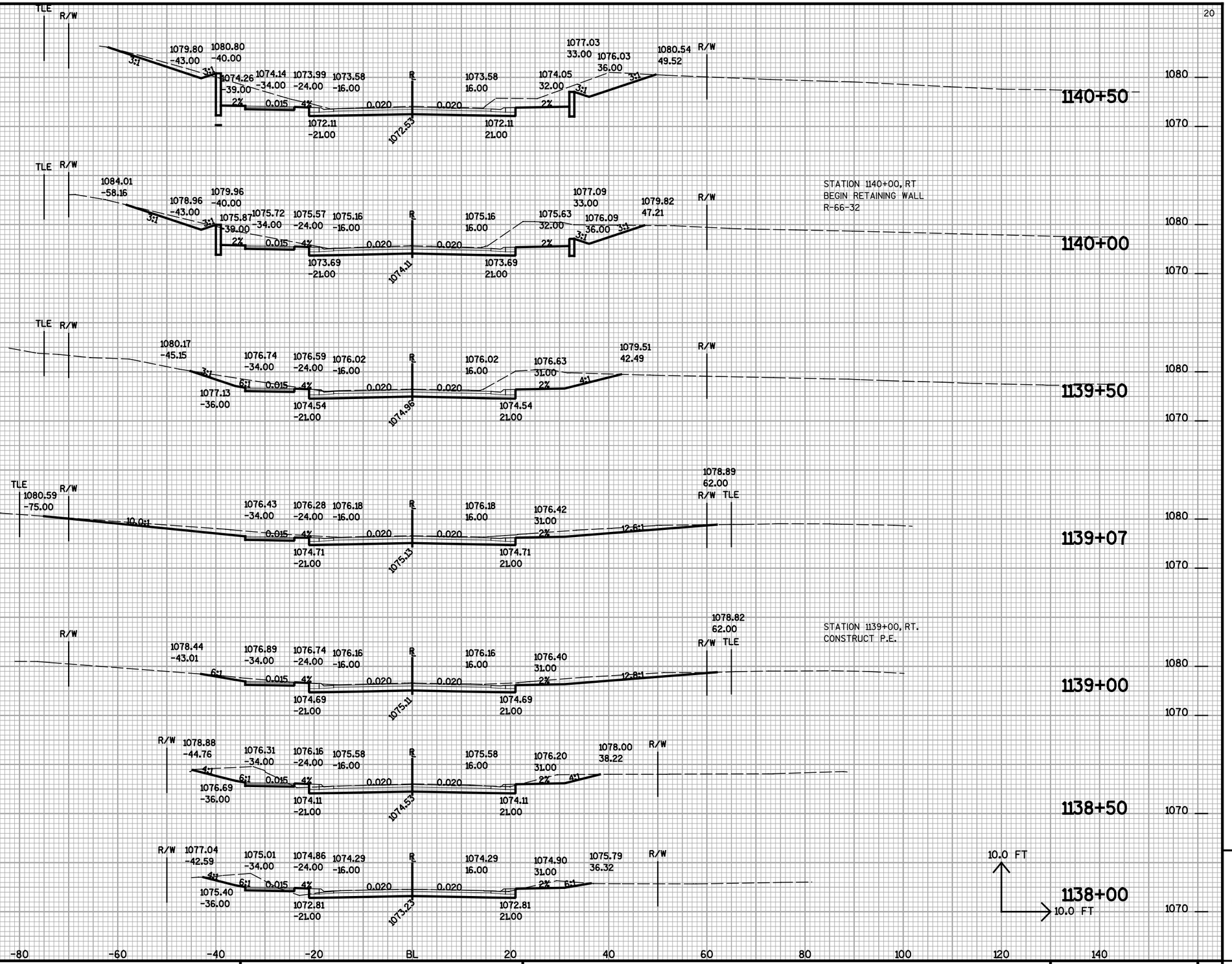
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 432	E

FILE NAME : W:\x-Projects\RD\7140\project 1\dgn\090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.

STATION 1137+62, RT.
CONSTRUCT F.E.

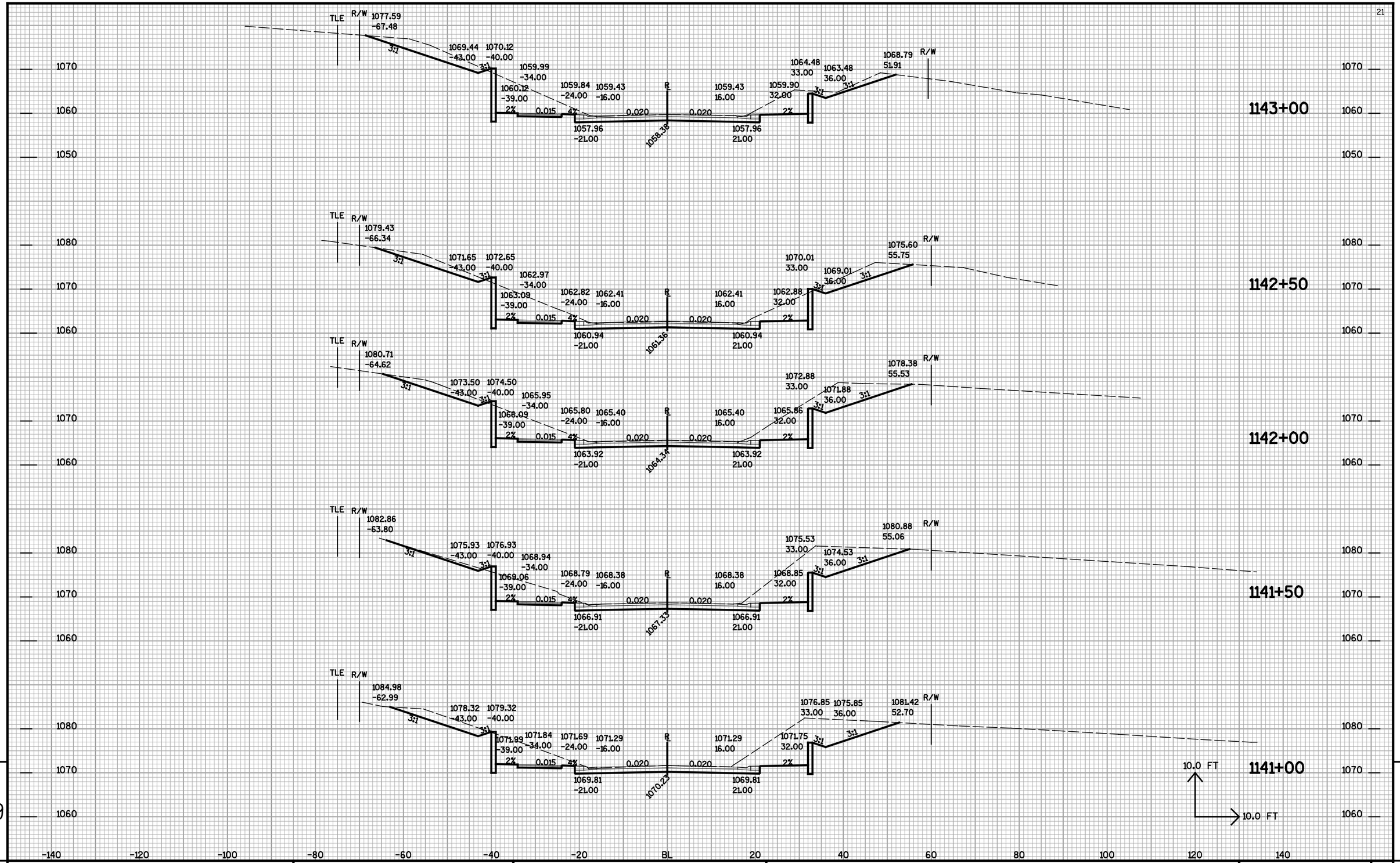


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 433	E



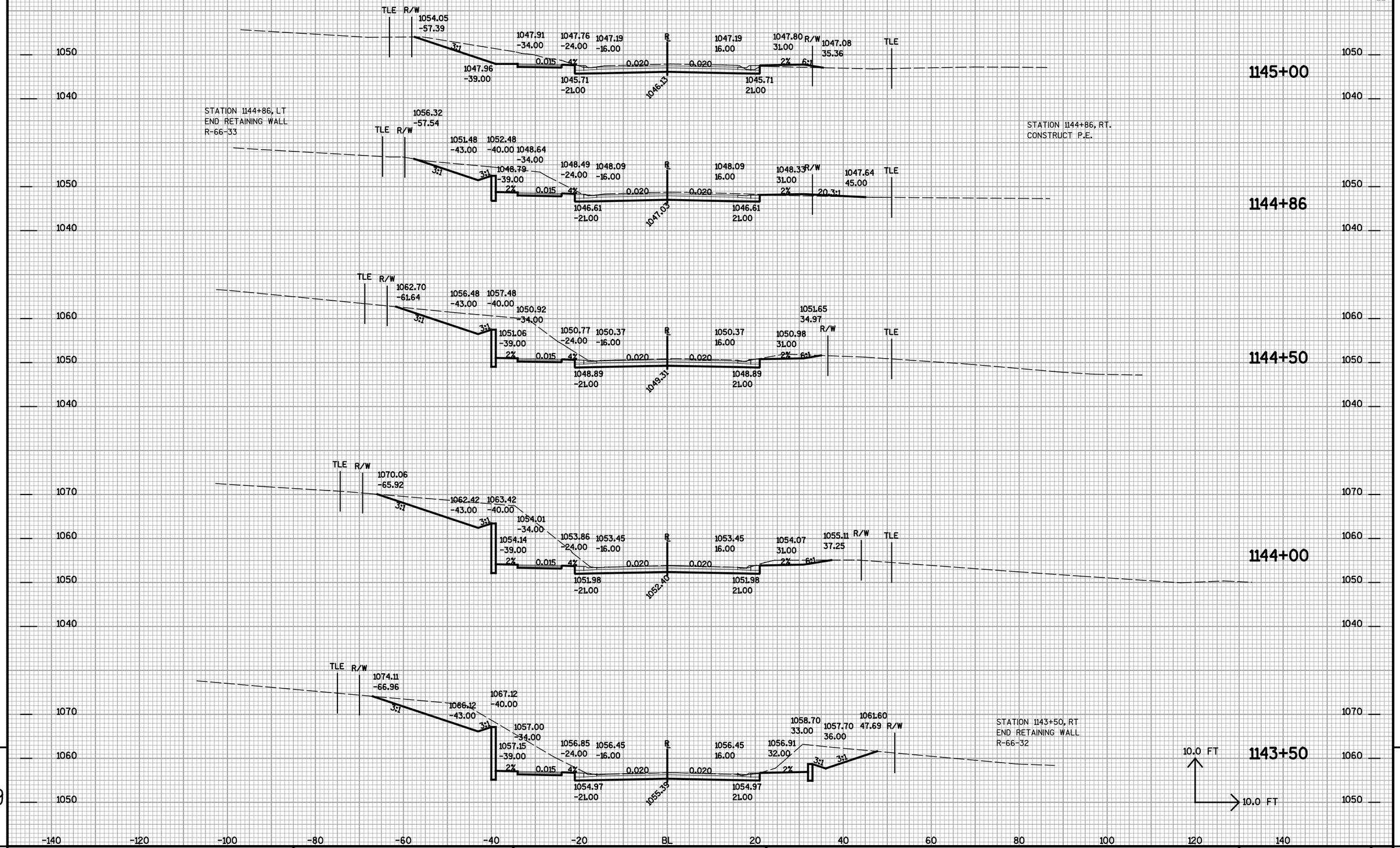
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 434	E

FILE NAME : W:\x-Projects\RD\7140\project 1 dgn\090201_xsml_1086-1194.dgn PLOT DATE : 12/10/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.



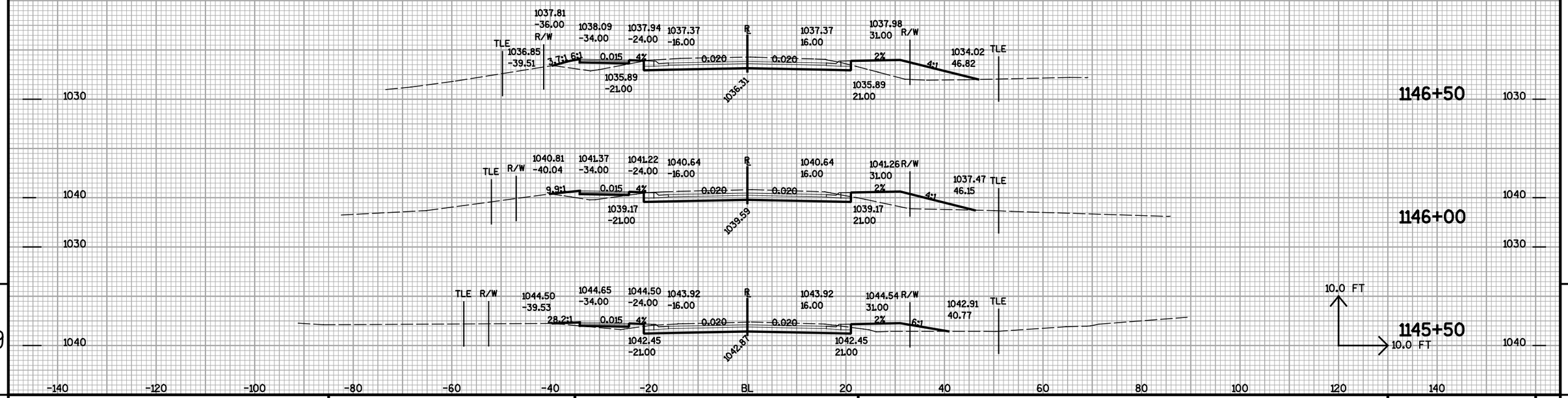
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 435 E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 436 E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.

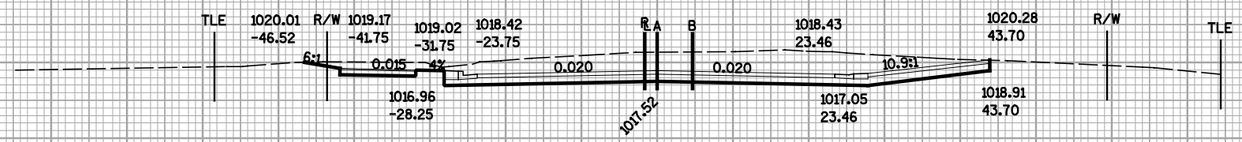


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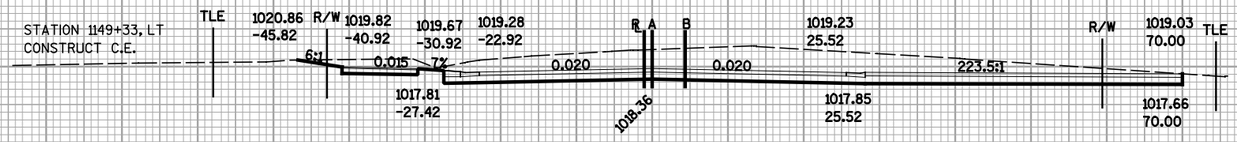
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PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 437	E

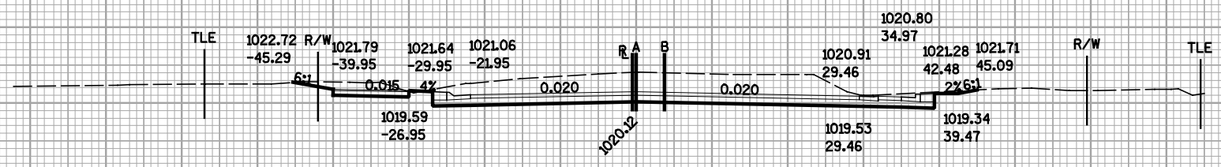
FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.



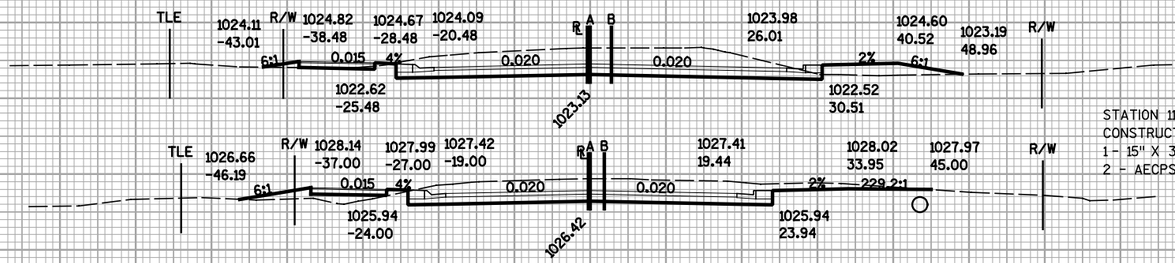
1149+50



1149+33



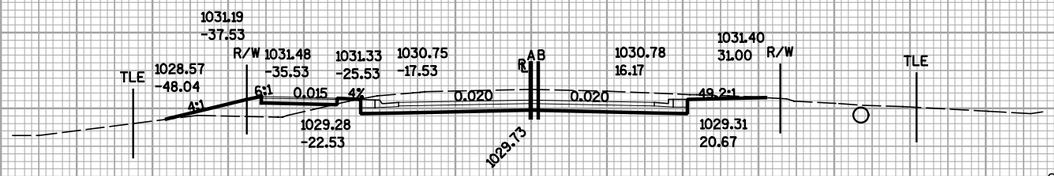
1149+00



1148+50

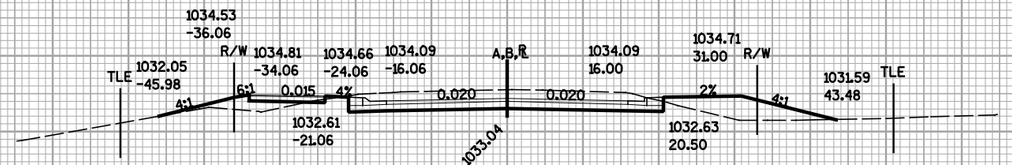
1148+00

STATION 1148+00, RT
CONSTRUCT P.E.
1 - 15" X 32' CPCS
2 - AECPS

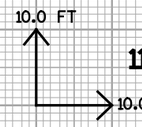


1147+50

STATION 1147+42, RT
CONSTRUCT P.E.
1 - 15" X 30' CPCS
2 - AECPS



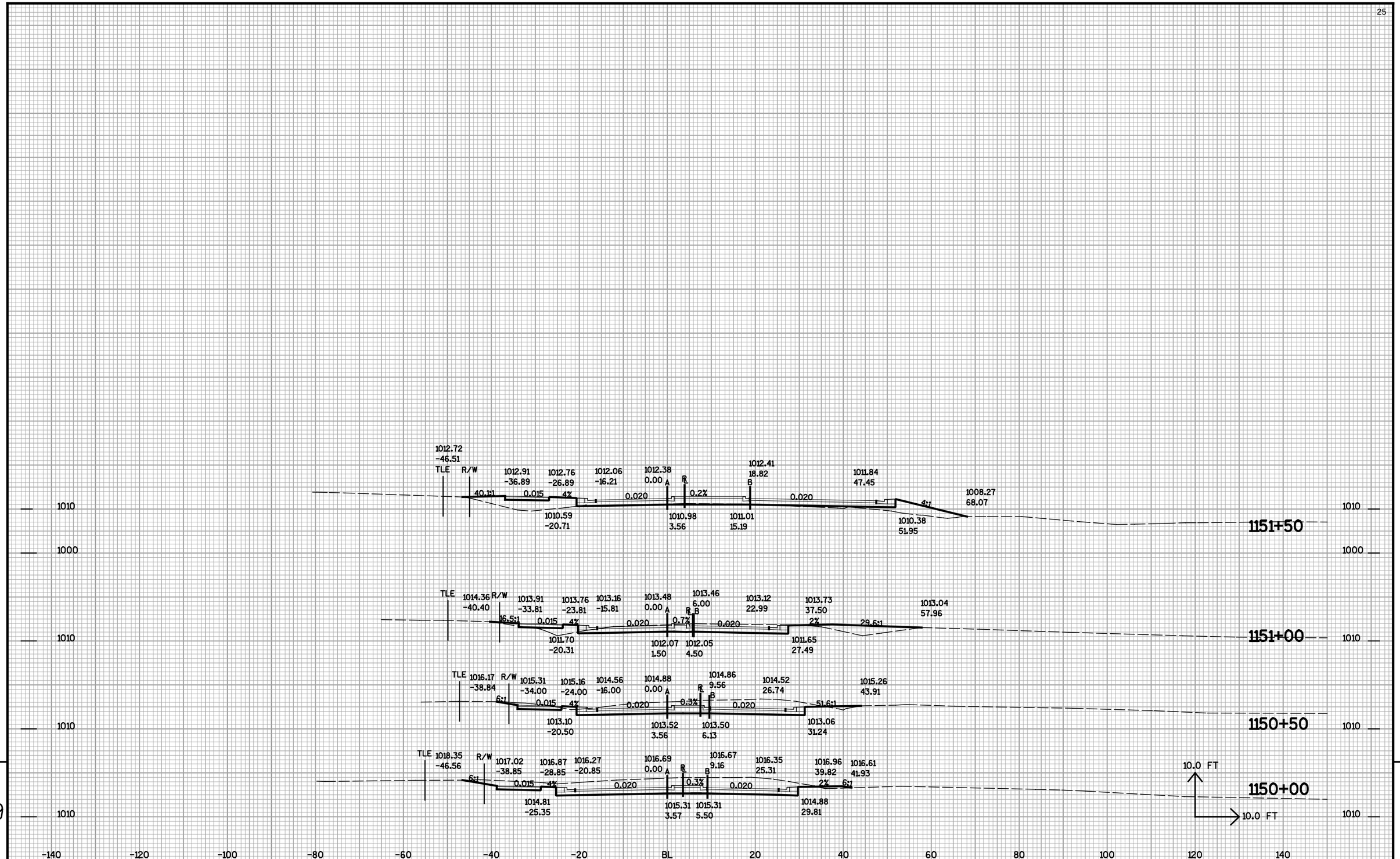
1147+00



-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 438	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090202_xsml_1147-1151.DGN PLOT DATE : 12/11/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

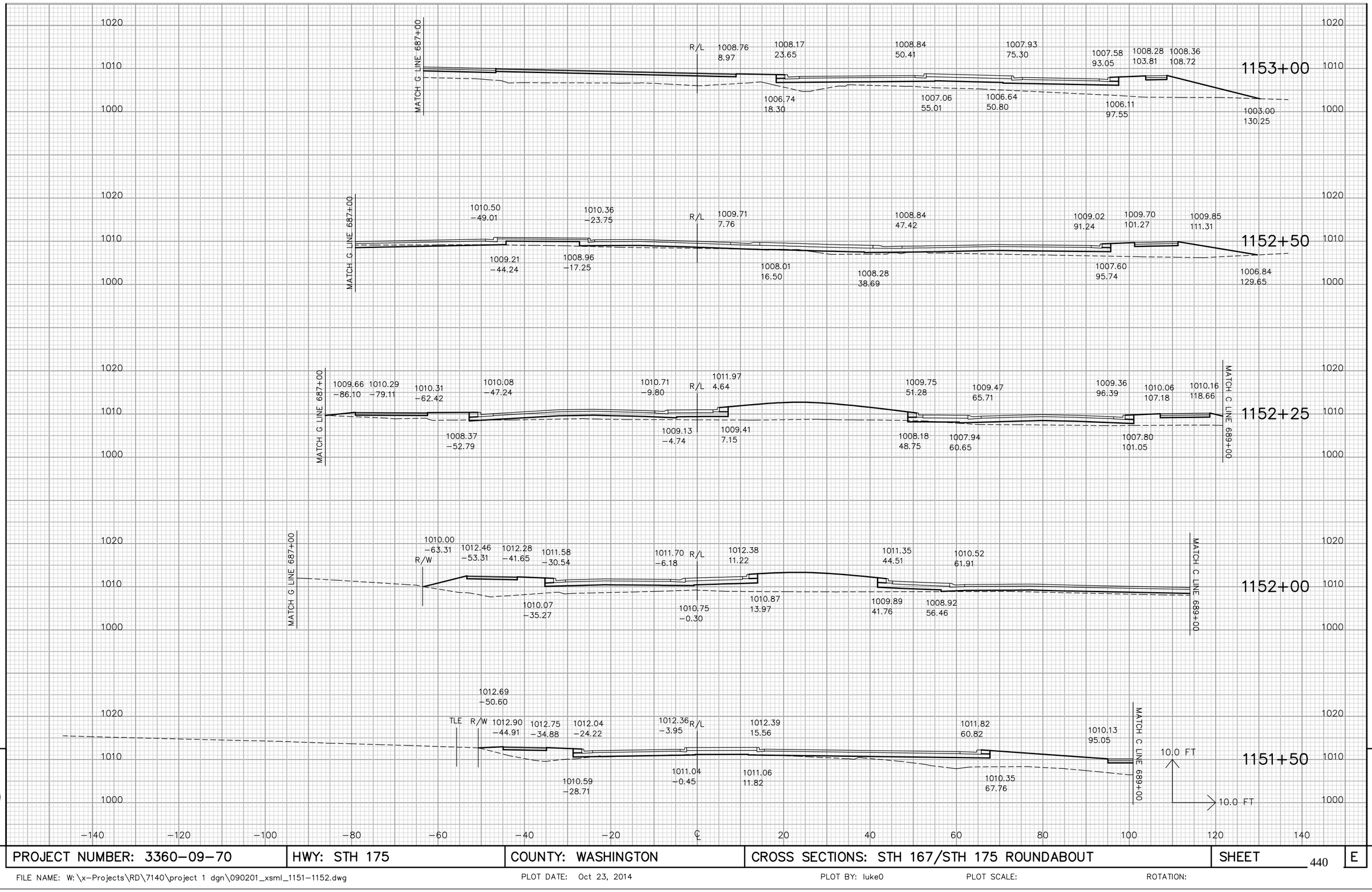


9

9

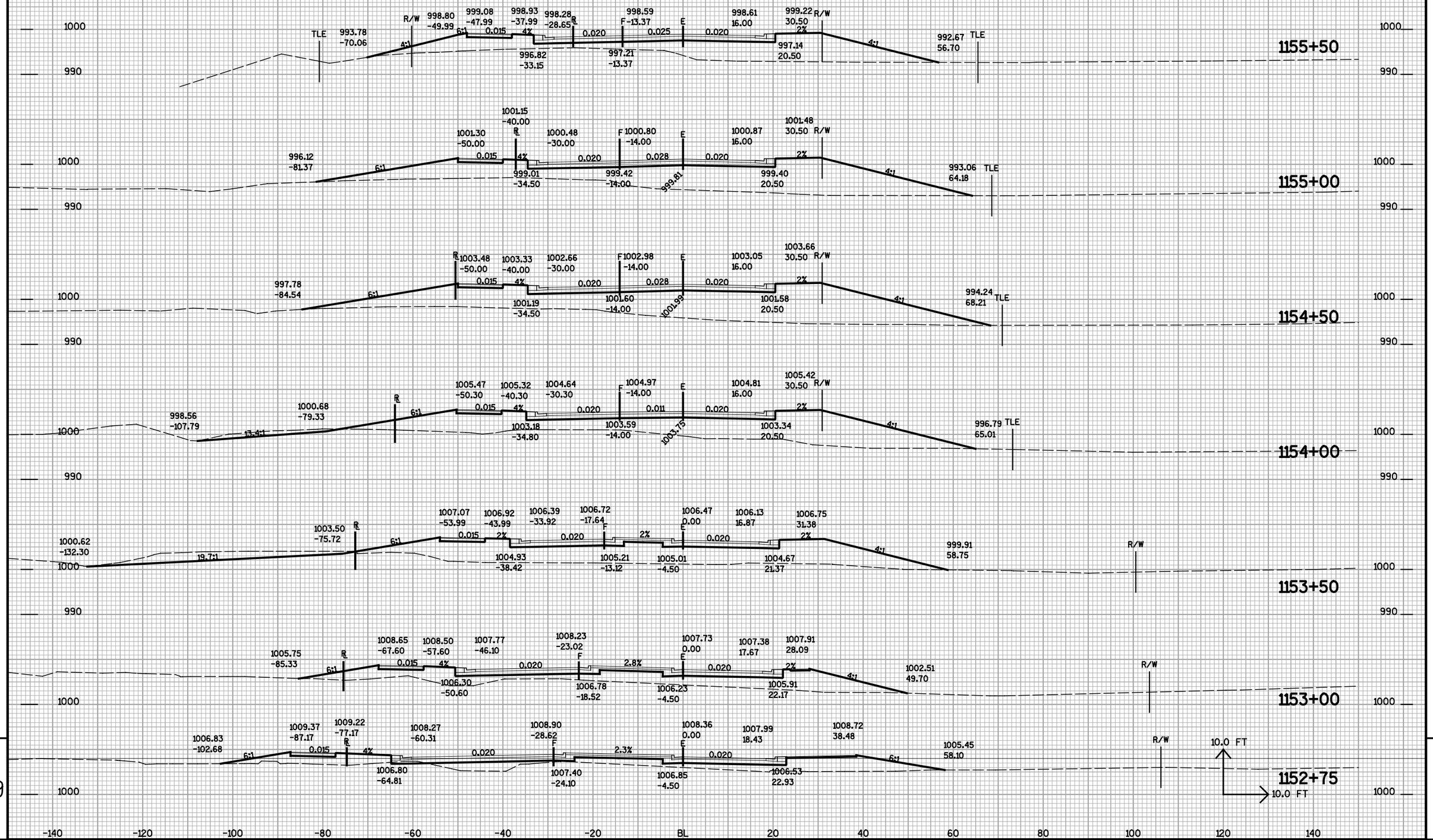
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 439	E

FILE NAME : w:\x-projects\rd\7140\project 1\dgn\090202_xsmi_1147-1151.DGN PLOT DATE : 10/9/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.



PROJECT NUMBER: 3360−09−70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 167/STH 175 ROUNDABOUT	SHEET 440	E

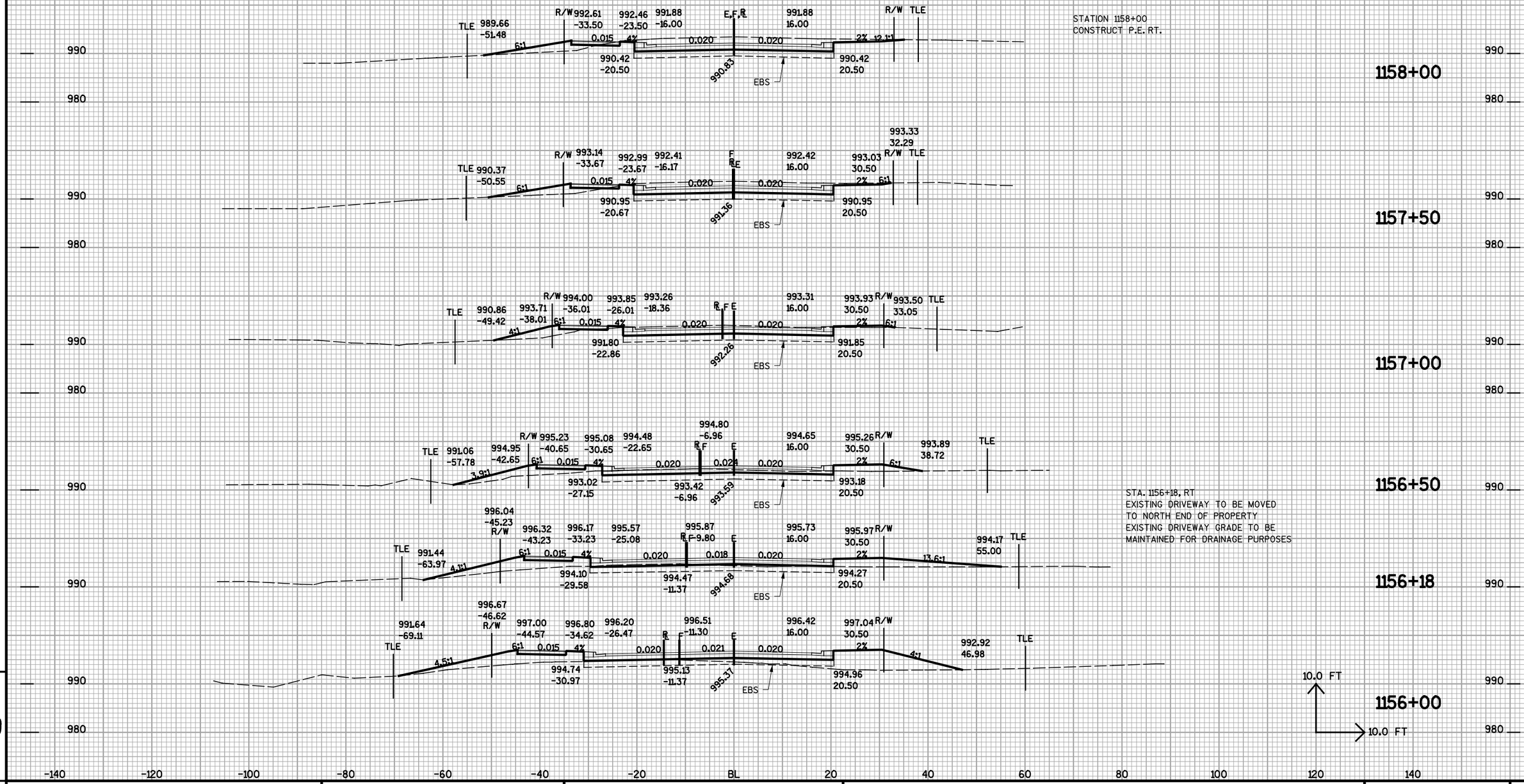
FILE NAME: W:\x−Projects\RD\7140\project 1 dgn\090201_xsml_1151−1152.dwg PLOT DATE: Oct 23, 2014 PLOT BY: luke0 PLOT SCALE: ROTATION:



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 441	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090203_xsml_1152-1158.DGN PLOT DATE : 10/23/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

NOTE: NO ELEVATION SHOWN FOR BOTTOM OF EBS.
MINIMUM DEPTH OF EBS SHALL BE 16-INCHES

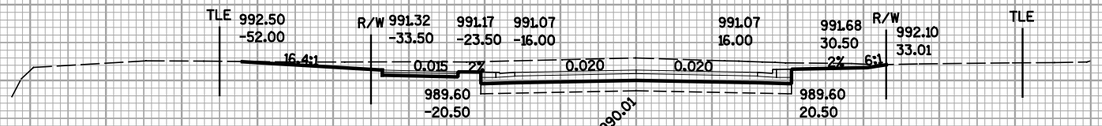


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 442	E

FILE NAME : w:\x-projects\rd\7140\project 1\dgn\090203_xsml_1152-1158.DGN PLOT DATE : 10/9/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

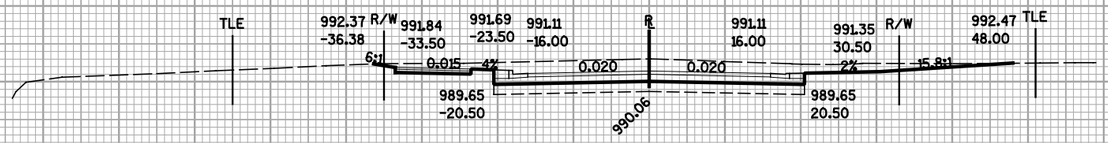
NOTE: NO ELEVATION SHOWN FOR BOTTOM OF EBS.
MINIMUM DEPTH OF EBS SHALL BE 16-INCHES

STATION 1159+41, LT.
CONSTRUCT C.E.

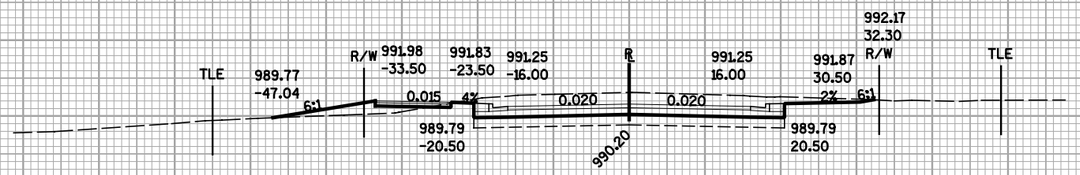


1159+41

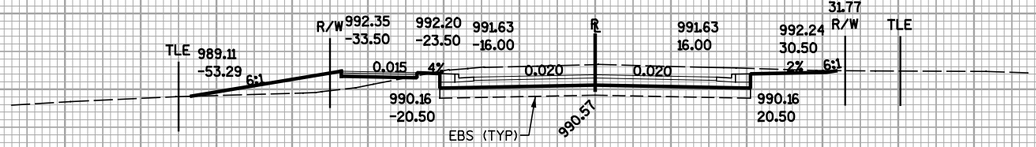
STATION 1159+28, RT.
CONSTRUCT P.E.



1159+28



1159+00



1158+50

990
980

10.0 FT
10.0 FT

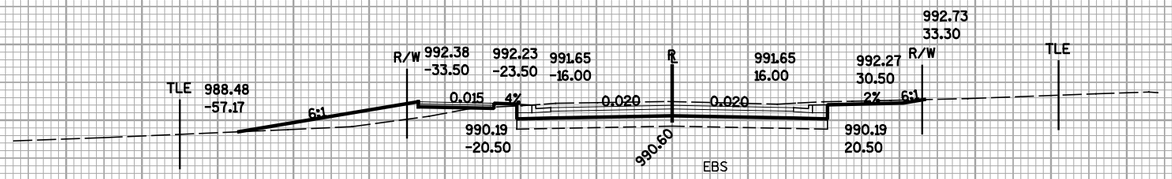
-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 443	E

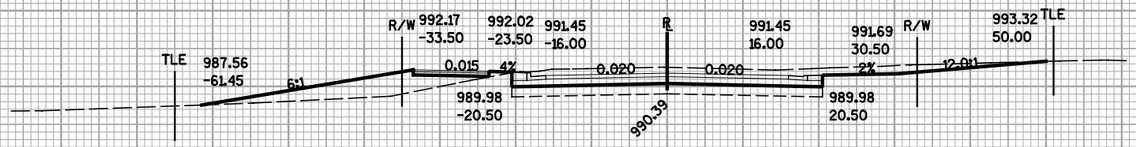
FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

NOTE: NO ELEVATION SHOWN FOR BOTTOM OF EBS.
MINIMUM DEPTH OF EBS SHALL BE 16-INCHES

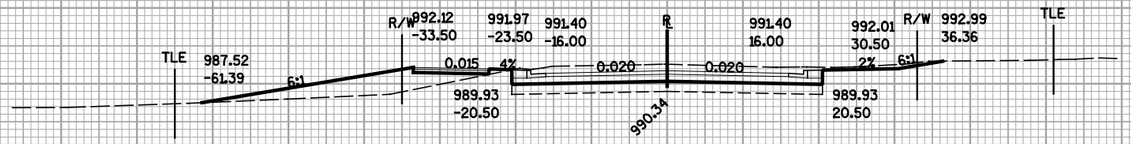


1161+50

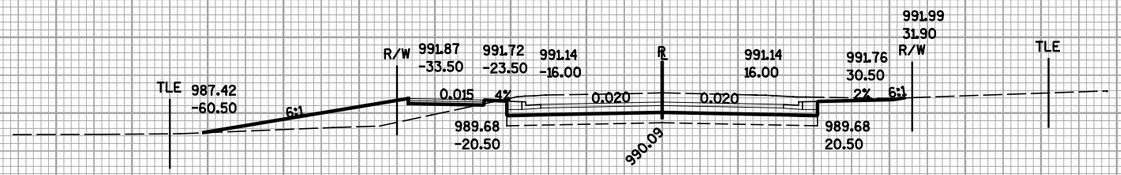
STATION 1161+10, RT.
CONSTRUCT P.E.



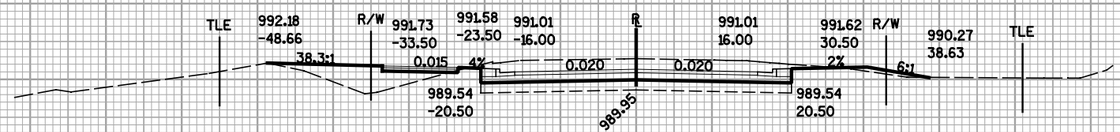
1161+10



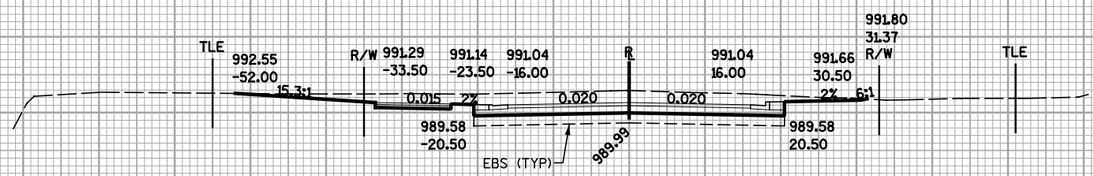
1161+00



1160+50



1160+00



1159+50

10.0 FT
10.0 FT

990 980 990 980 990 980 990 980 990 980 990 980

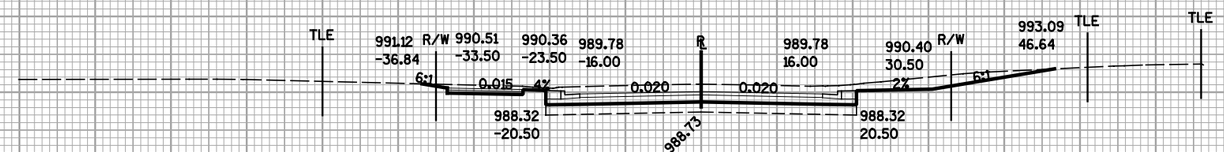
-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

9 9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 444	E

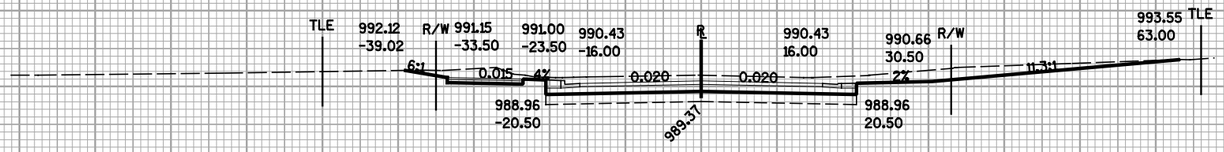
FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.

NOTE: NO ELEVATION SHOWN FOR BOTTOM OF EBS.
MINIMUM DEPTH OF EBS SHALL BE 16-INCHES

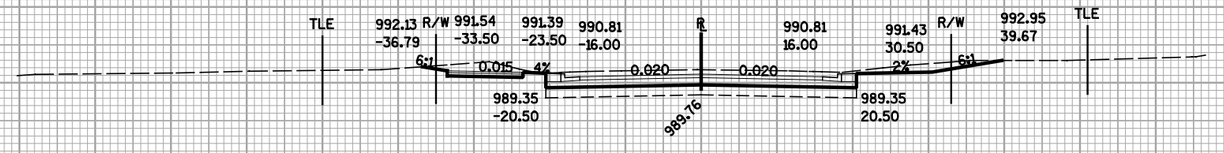


1163+50

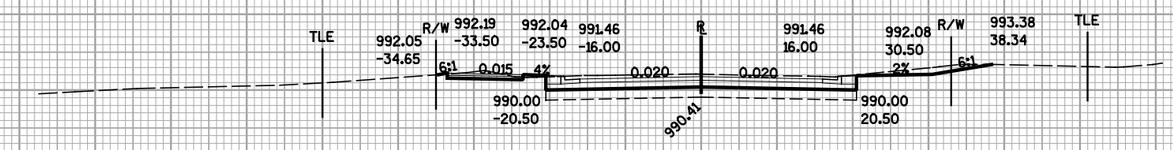
STATION 1163+21, RT.
CONSTRUCT P.E.



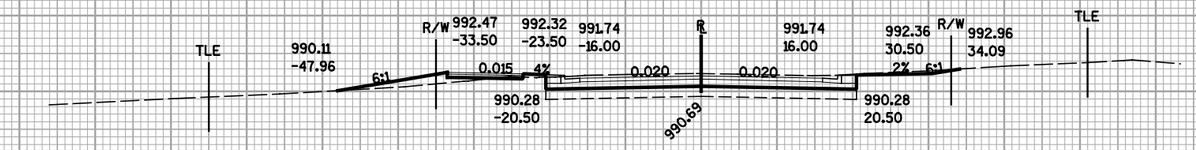
1163+21



1163+00

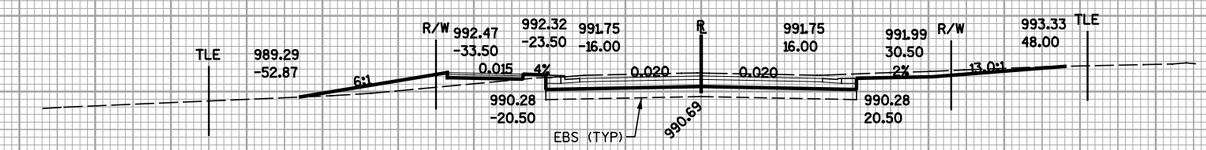


1162+50



1162+00

STATION 1161+77, RT.
CONSTRUCT P.E.



1161+77

10.0 FT
10.0 FT

-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

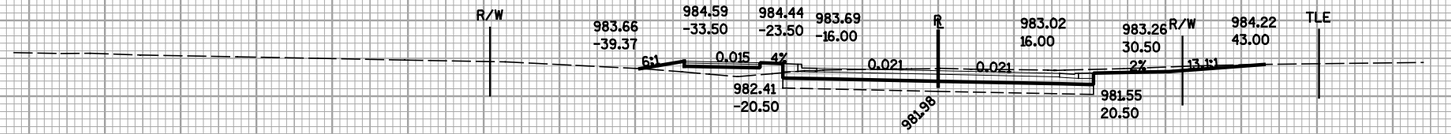
9 9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 445	E

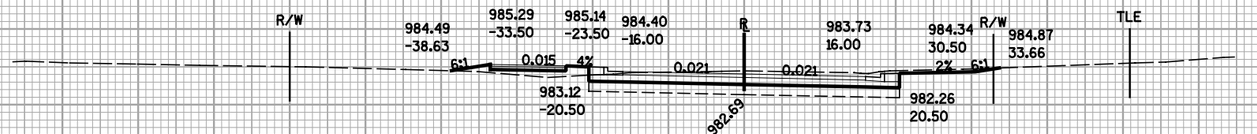
FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.

NOTE: NO ELEVATION SHOWN FOR BOTTOM OF EBS.
MINIMUM DEPTH OF EBS SHALL BE 16-INCHES

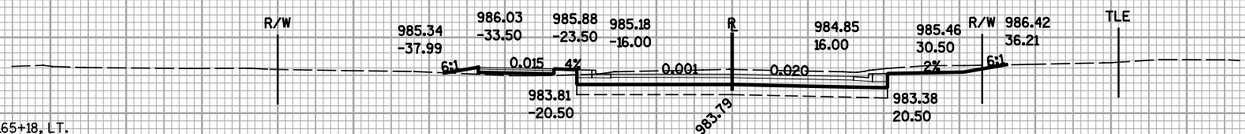
STATION 1166+41, RT.
CONSTRUCT P.E.



1166+41

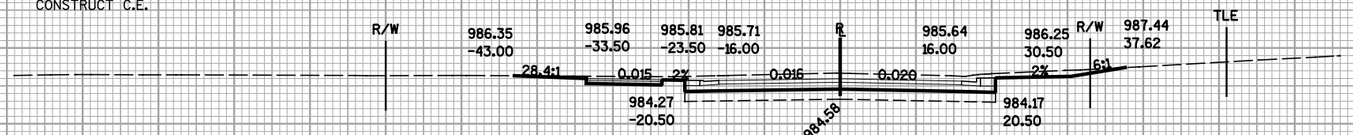


1166+00

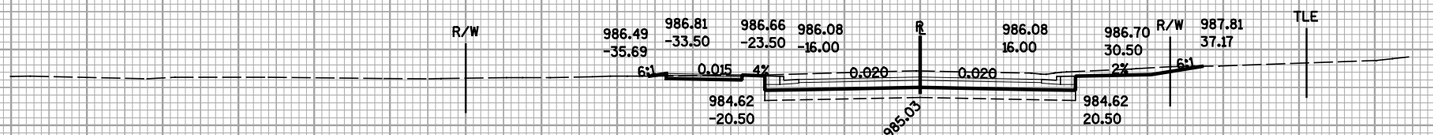


1165+50

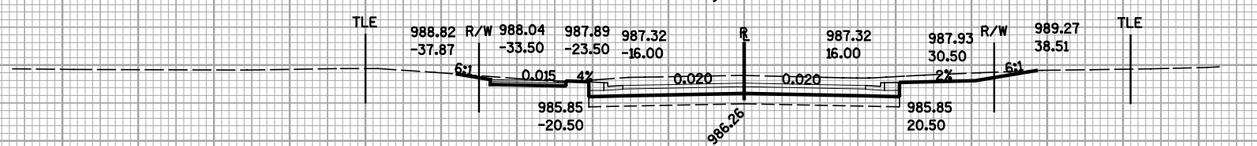
STATION 1165+18, LT.
CONSTRUCT C.E.



1165+18

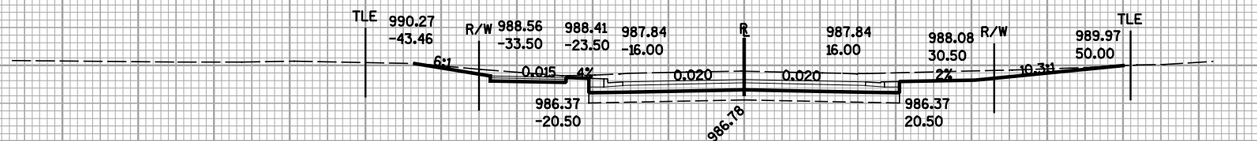


1165+00

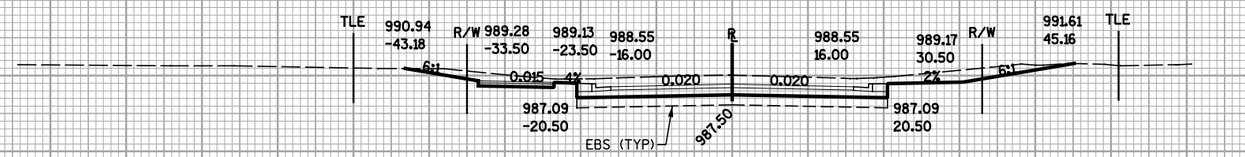


1164+50

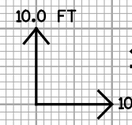
STATION 1164+29, RT
CONSTRUCT C.E..



1164+29



1164+00



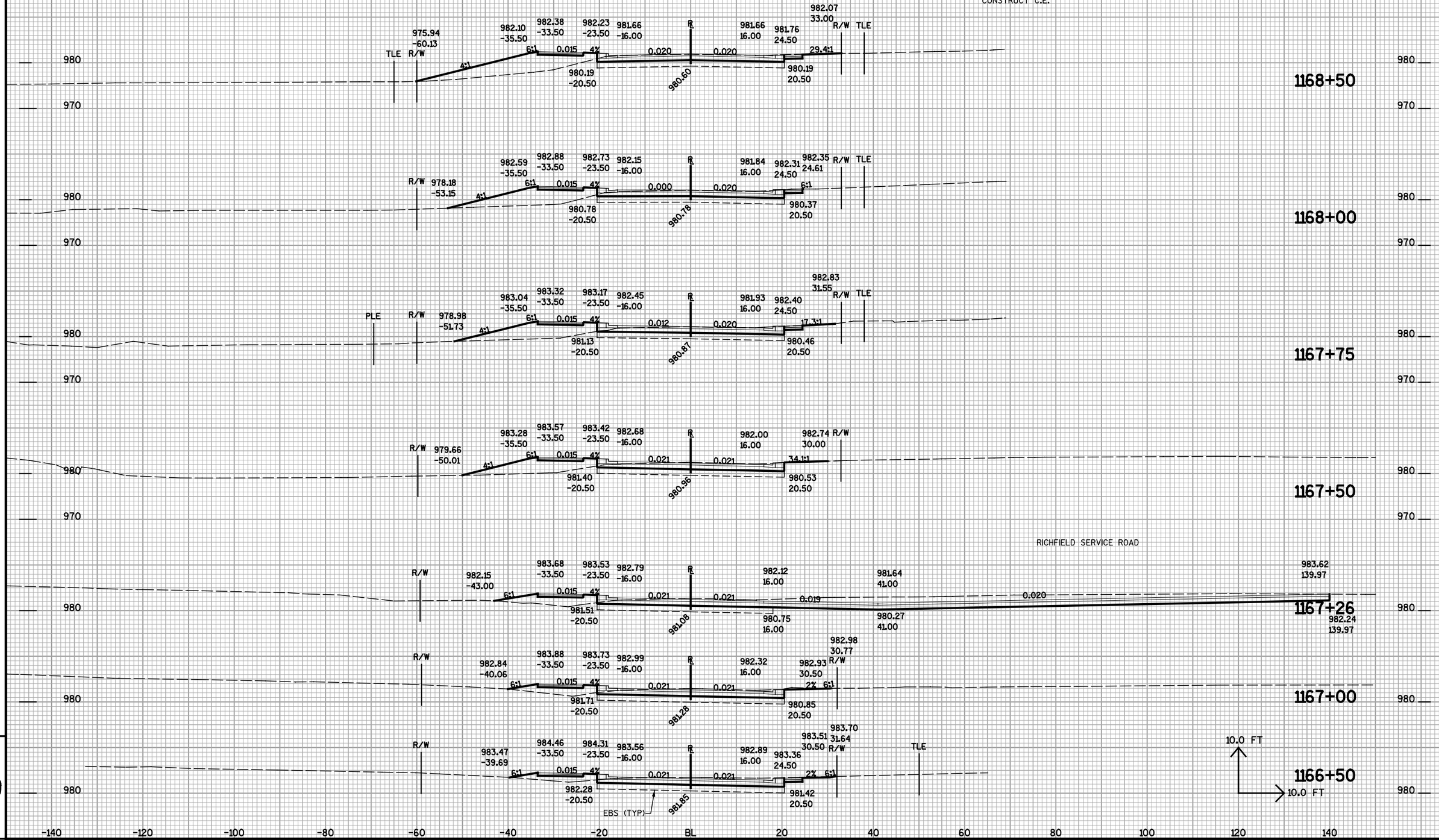
-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 446	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

NOTE: NO ELEVATION SHOWN FOR BOTTOM OF EBS.
MINIMUM DEPTH OF EBS SHALL BE 16-INCHES

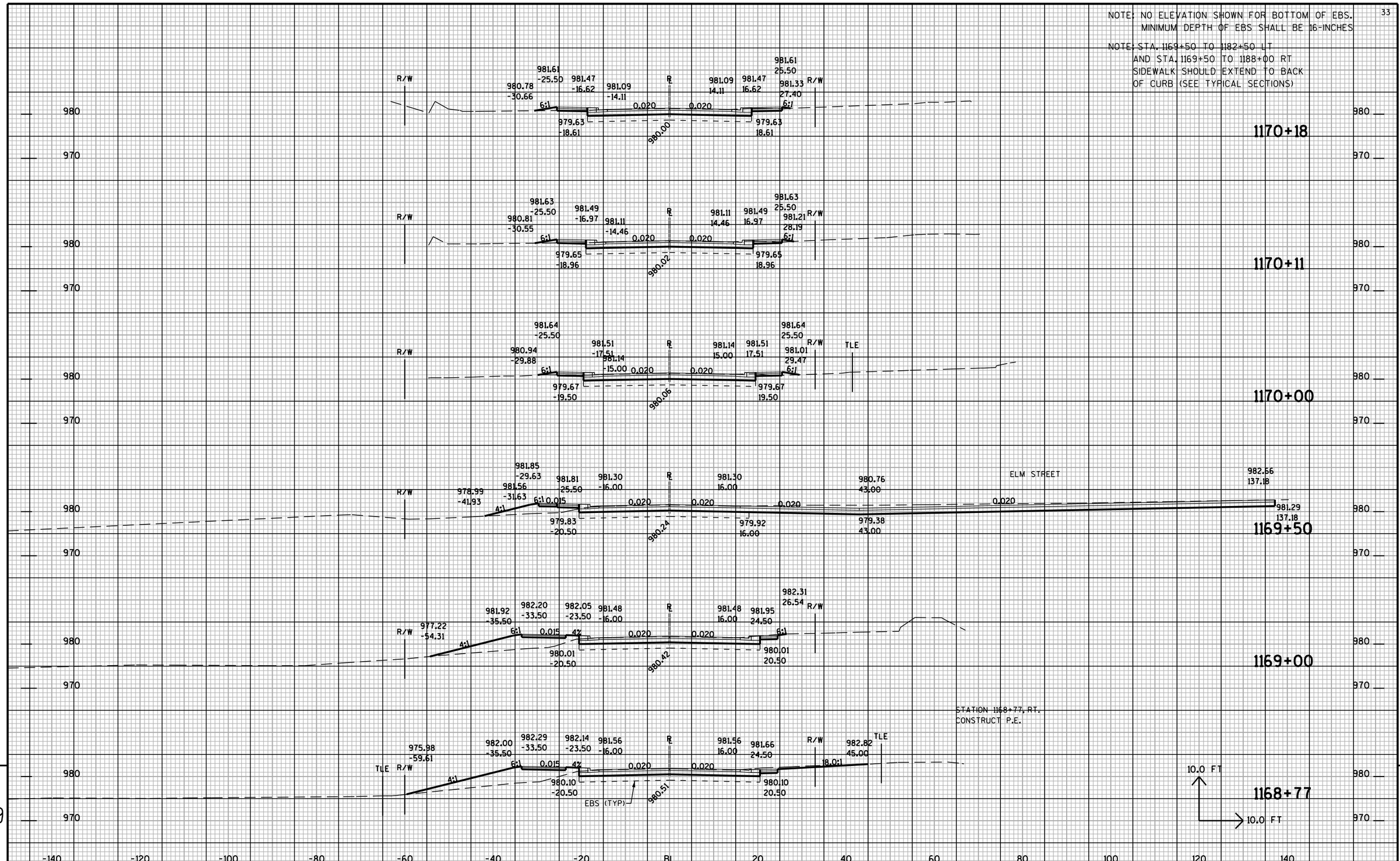
STATION 1168+50, RT.
CONSTRUCT C.E.



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 447	E

NOTE: NO ELEVATION SHOWN FOR BOTTOM OF EBS.
MINIMUM DEPTH OF EBS SHALL BE 16-INCHES

NOTE: STA. 1169+50 TO 1182+50 LT
AND STA. 1169+50 TO 1188+00 RT
SIDEWALK SHOULD EXTEND TO BACK
OF CURB (SEE TYPICAL SECTIONS)



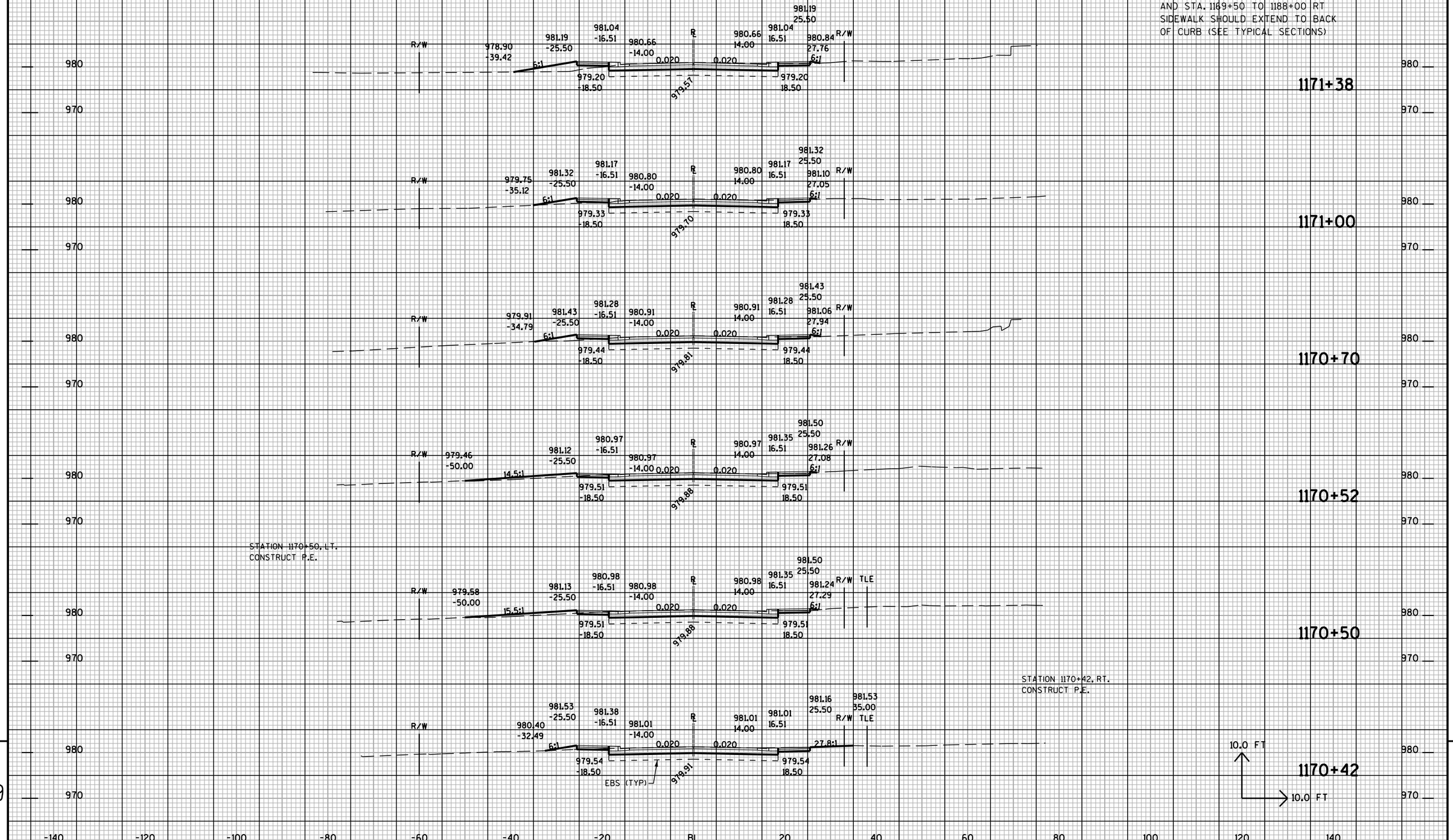
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PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: E

FILE NAME : N:±PDS±Projects±33600900±DDE±Graphical Information±Plan Sheets±090201_xsml_1086-1194.dgn PLOT DATE : 13-MAY-2015 09:52 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 2:1

NOTE: NO ELEVATION SHOWN FOR BOTTOM OF EBS.
MINIMUM DEPTH OF EBS SHALL BE 16-INCHES

NOTE: STA. 1169+50 TO 1182+50 LT
AND STA. 1169+50 TO 1188+00 RT
SIDEWALK SHOULD EXTEND TO BACK
OF CURB (SEE TYPICAL SECTIONS)

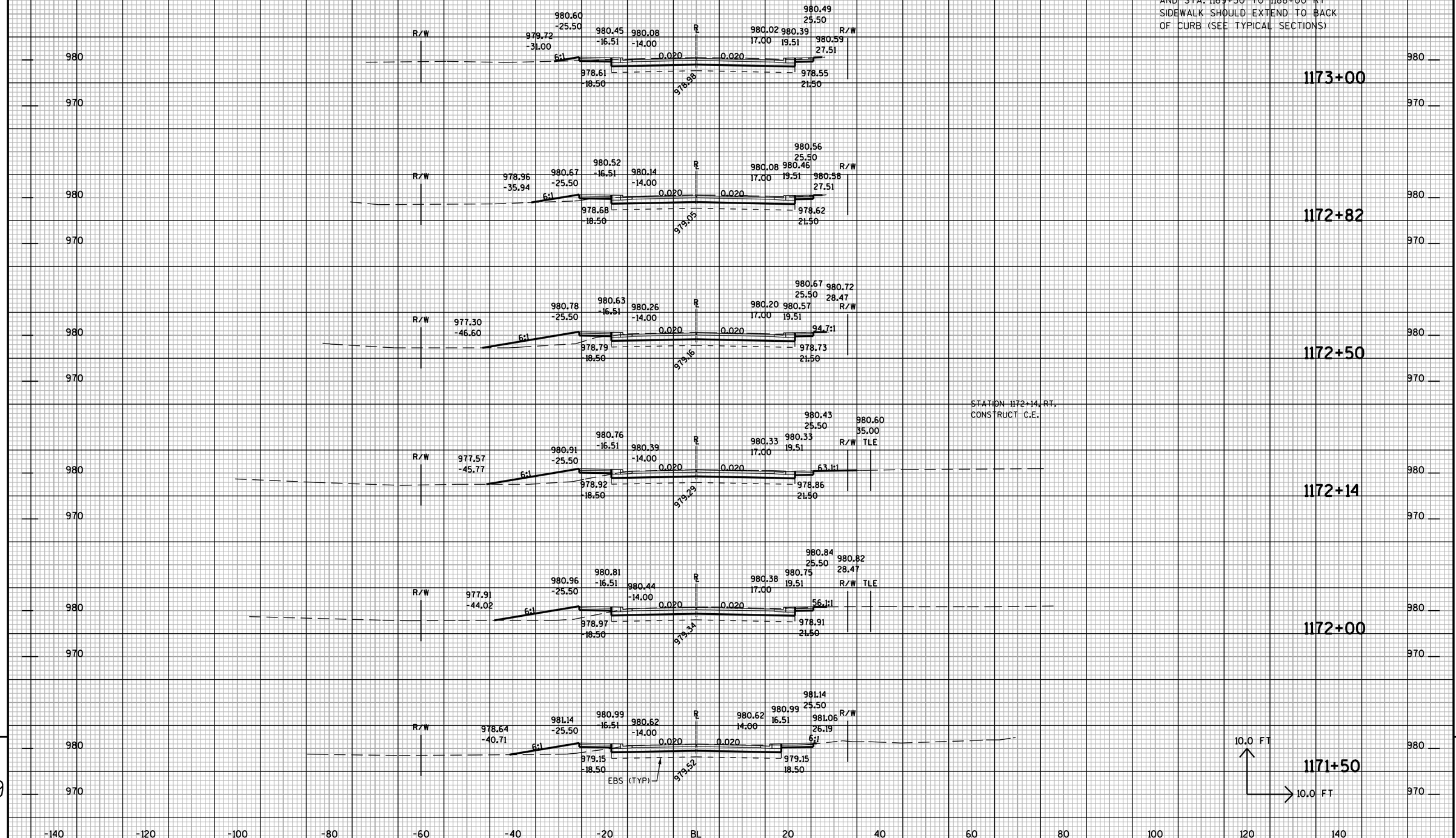


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 449	E

FILE NAME : N:±PDS±Projects±33600900±DDE±Graphical Information±Plan Sheets±090201_xsml_1086-1194.dgn PLOT DATE : 13-MAY-2015 09:52 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 2:1

NOTE: NO ELEVATION SHOWN FOR BOTTOM OF EBS. MINIMUM DEPTH OF EBS SHALL BE 16-INCHES

NOTE: STA. 1169+50 TO 1182+50 LT AND STA. 1169+50 TO 1188+00 RT SIDEWALK SHOULD EXTEND TO BACK OF CURB (SEE TYPICAL SECTIONS)

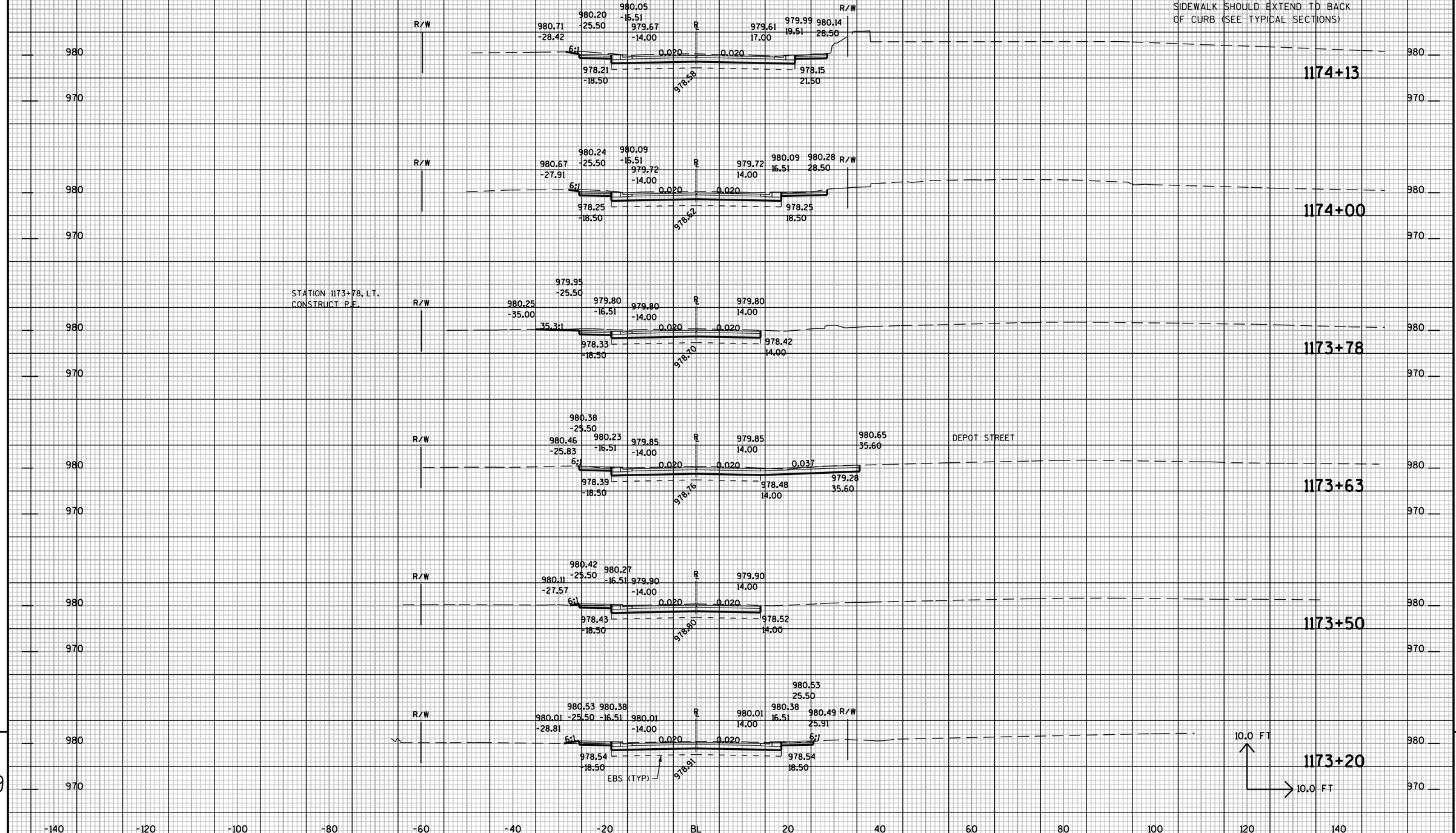


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 450 E

FILE NAME : N:±PDS±Projects±33600900±DDE±Graphical Information±Plan Sheets±090201_xsml_1086-1194.dgn PLOT DATE : 13-MAY-2015 09:52 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 2:1

NOTE: NO ELEVATION SHOWN FOR BOTTOM OF EBS. MINIMUM DEPTH OF EBS SHALL BE 16-INCHES

NOTE: STA. 1169+50 TO 1182+50 LT AND STA. 1169+50 TO 1188+00 RT SIDEWALK SHOULD EXTEND TO BACK OF CURB (SEE TYPICAL SECTIONS)



9

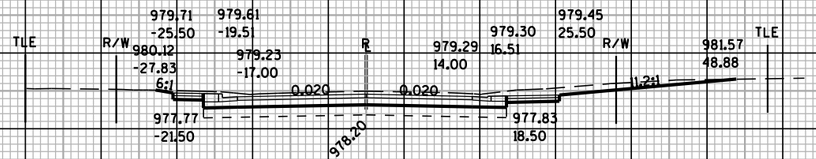
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PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO:	E

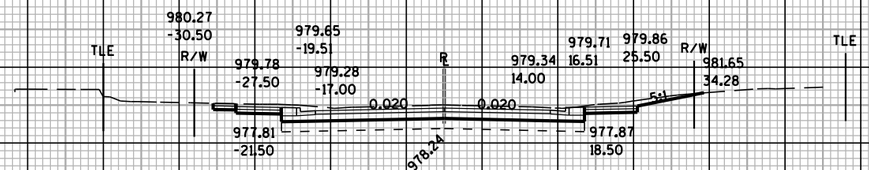
NOTE: NO ELEVATION SHOWN FOR BOTTOM OF EBS.
MINIMUM DEPTH OF EBS SHALL BE 16-INCHES

NOTE: STA. 1169+50 TO 1182+50 LT
AND STA. 1169+50 TO 1188+00 RT
SIDEWALK SHOULD EXTEND TO BACK
OF CURB (SEE TYPICAL SECTIONS)

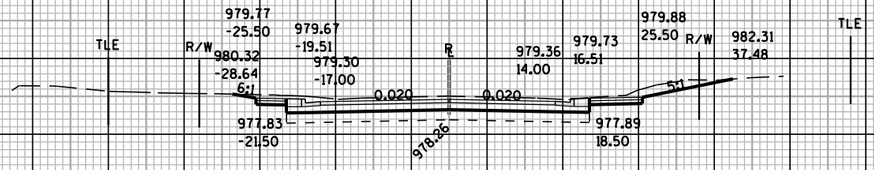
STATION 1175+18. RT.
CONSTRUCT C.E.



1175+18

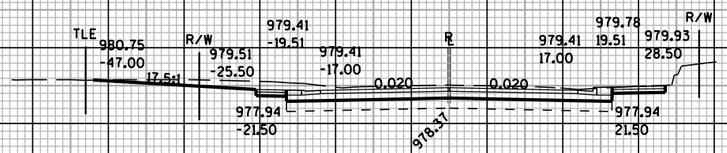


1175+05

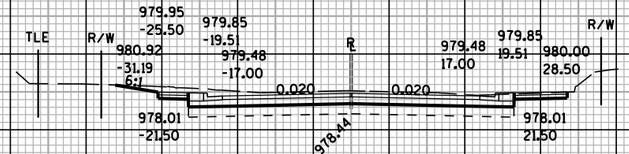


1175+00

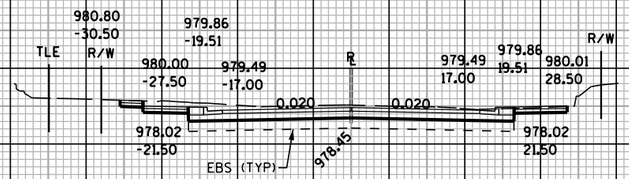
STATION 1174+70. LT.
CONSTRUCT P.E.



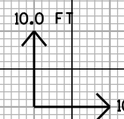
1174+70



1174+50



1174+47



-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO:	E

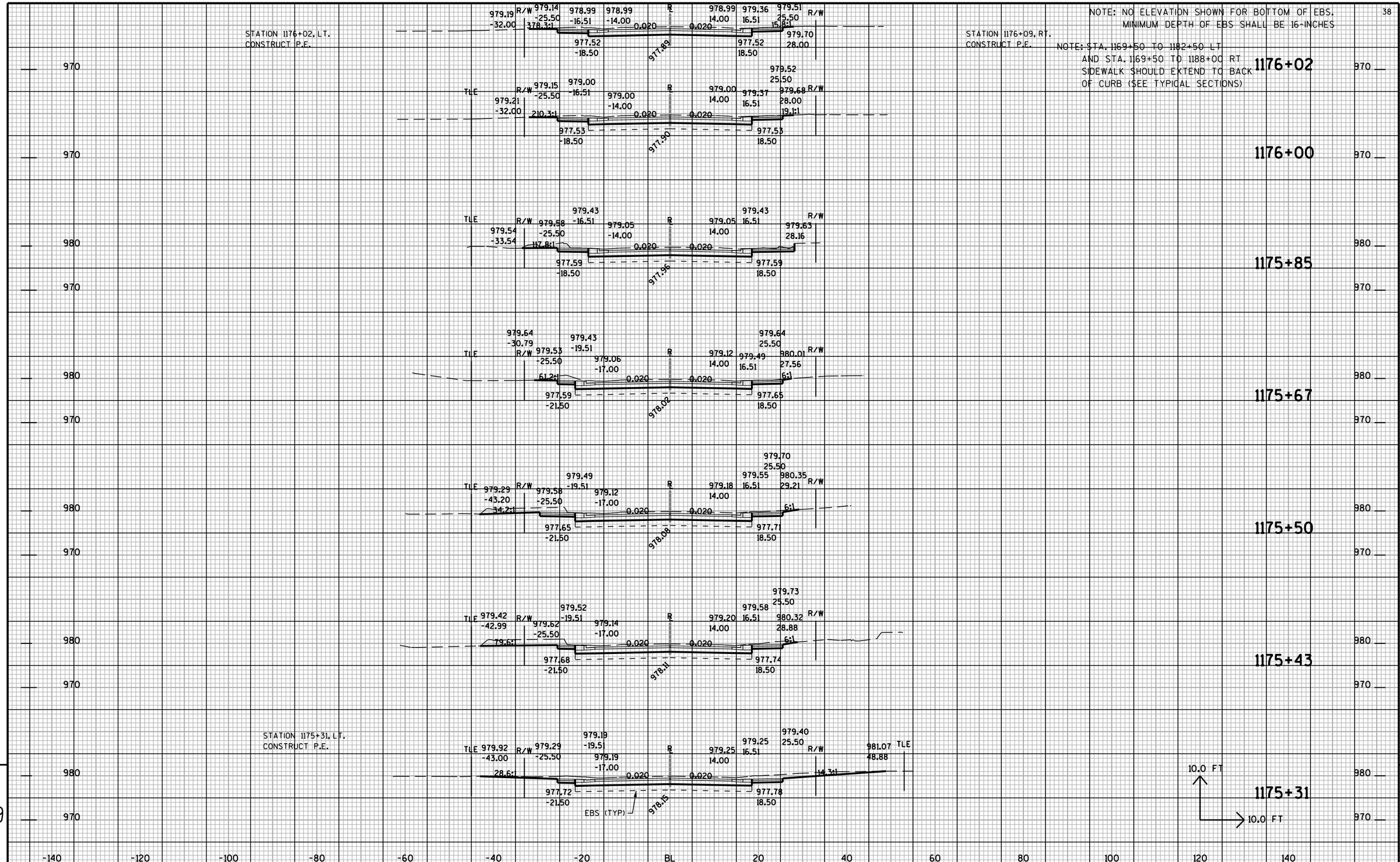
FILE NAME : N:±PDS±Projects±33600900±DDE±Graphical Information±Plan Sheets±090201_xsml_1086-1194.dgn PLOT DATE : 13-MAY-2015 09:53 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 2:1

NOTE: NO ELEVATION SHOWN FOR BOTTOM OF EBS.
MINIMUM DEPTH OF EBS SHALL BE 16-INCHES

STATION 1176+02, LT.
CONSTRUCT P.E.

STATION 1176+09, RT.
CONSTRUCT P.E.

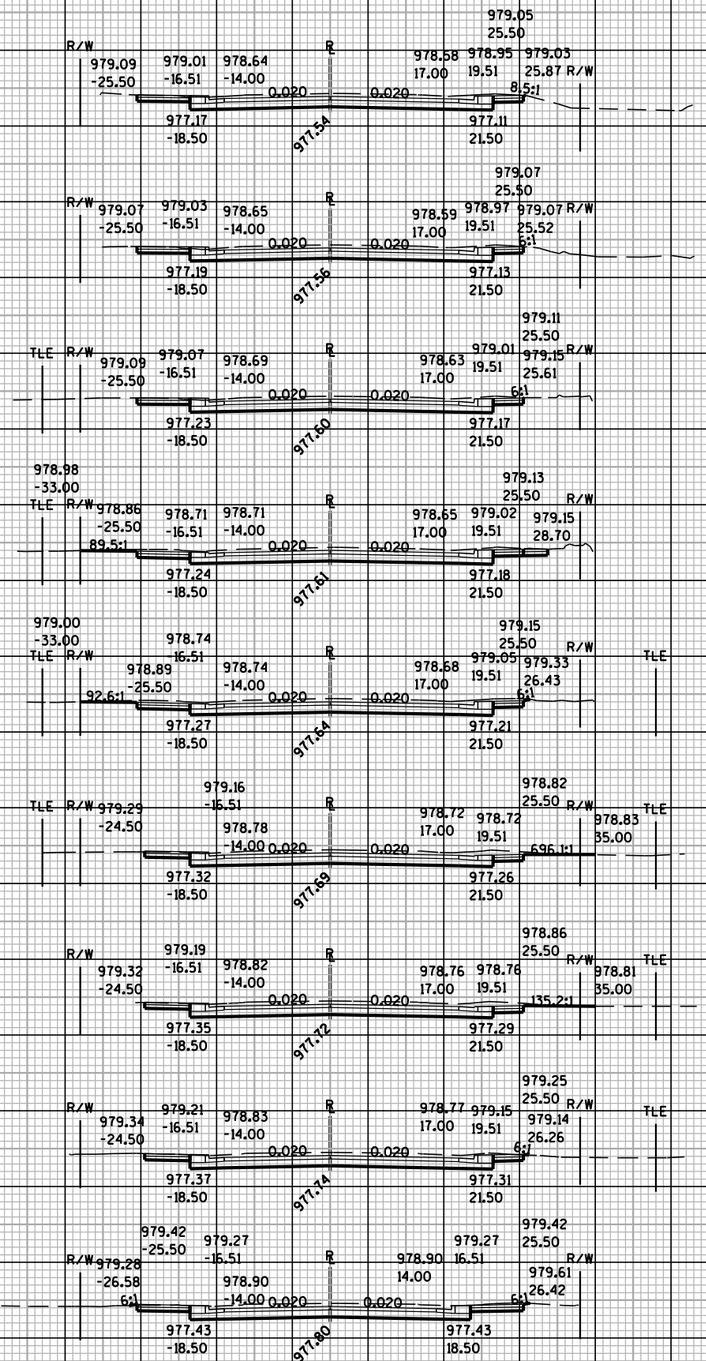
NOTE: STA. 1169+50 TO 1182+50 LT
AND STA. 1169+50 TO 1188+00 RT
SIDEWALK SHOULD EXTEND TO BACK
OF CURB (SEE TYPICAL SECTIONS)



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 453	E

FILE NAME : N:±PDS±Projects±33600900±DDE±Graphical Information±Plan Sheets±090201_xsml_1086-1194.dgn
PLOT DATE : 13-MAY-2015 09:53
PLOT BY : dotshw
PLOT NAME :
PLOT SCALE : 2:1

NOTE: STA. 1169+50 TO 1182+50 LT
AND STA. 1169+50 TO 1188+00 RT
SIDEWALK SHOULD EXTEND TO BACK
OF CURB (SEE TYPICAL SECTIONS)



STATION 1176+72, LT.
CONSTRUCT P.E.

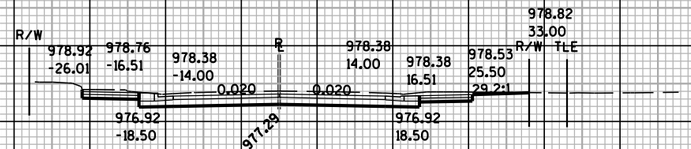
STATION 1176+59, RT.
CONSTRUCT P.E.

9

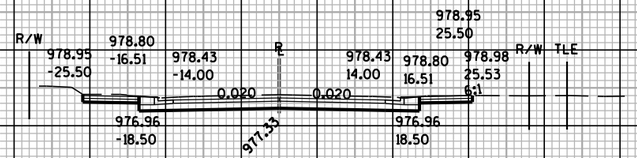
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PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO:	E

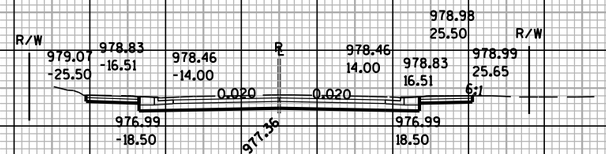
NOTE: STA. 1169+50 TO 1182+50 LT
AND STA. 1169+50 TO 1188+00 RT
SIDEWALK SHOULD EXTEND TO BACK
OF CURB (SEE TYPICAL SECTIONS)



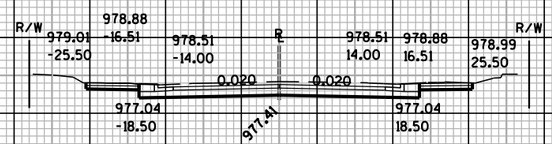
1177+70



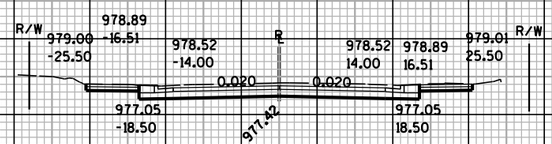
1177+58



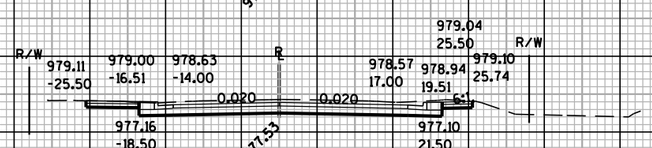
1177+50



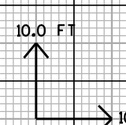
1177+36



1177+33



1177+03



-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

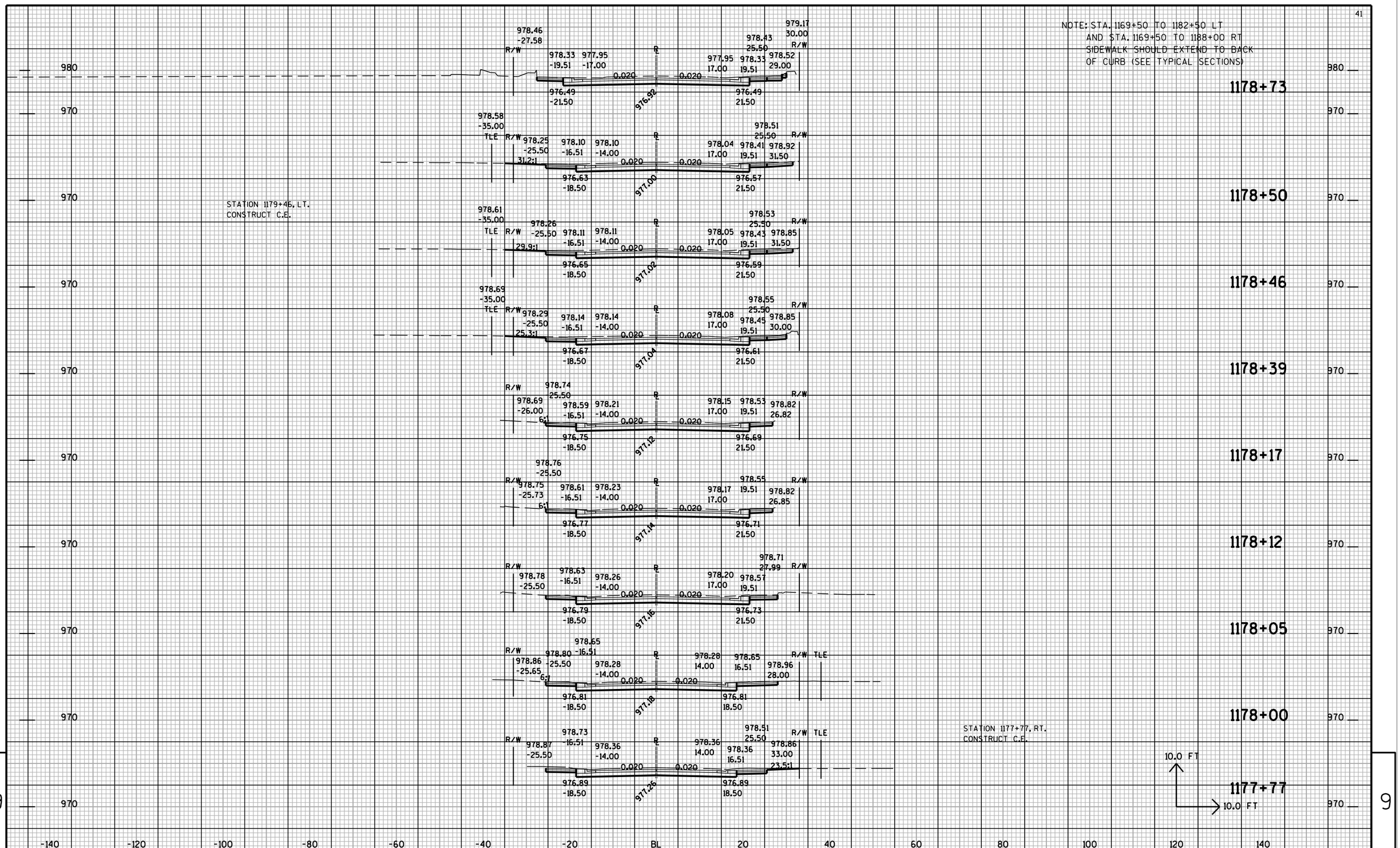
980 970

9

9

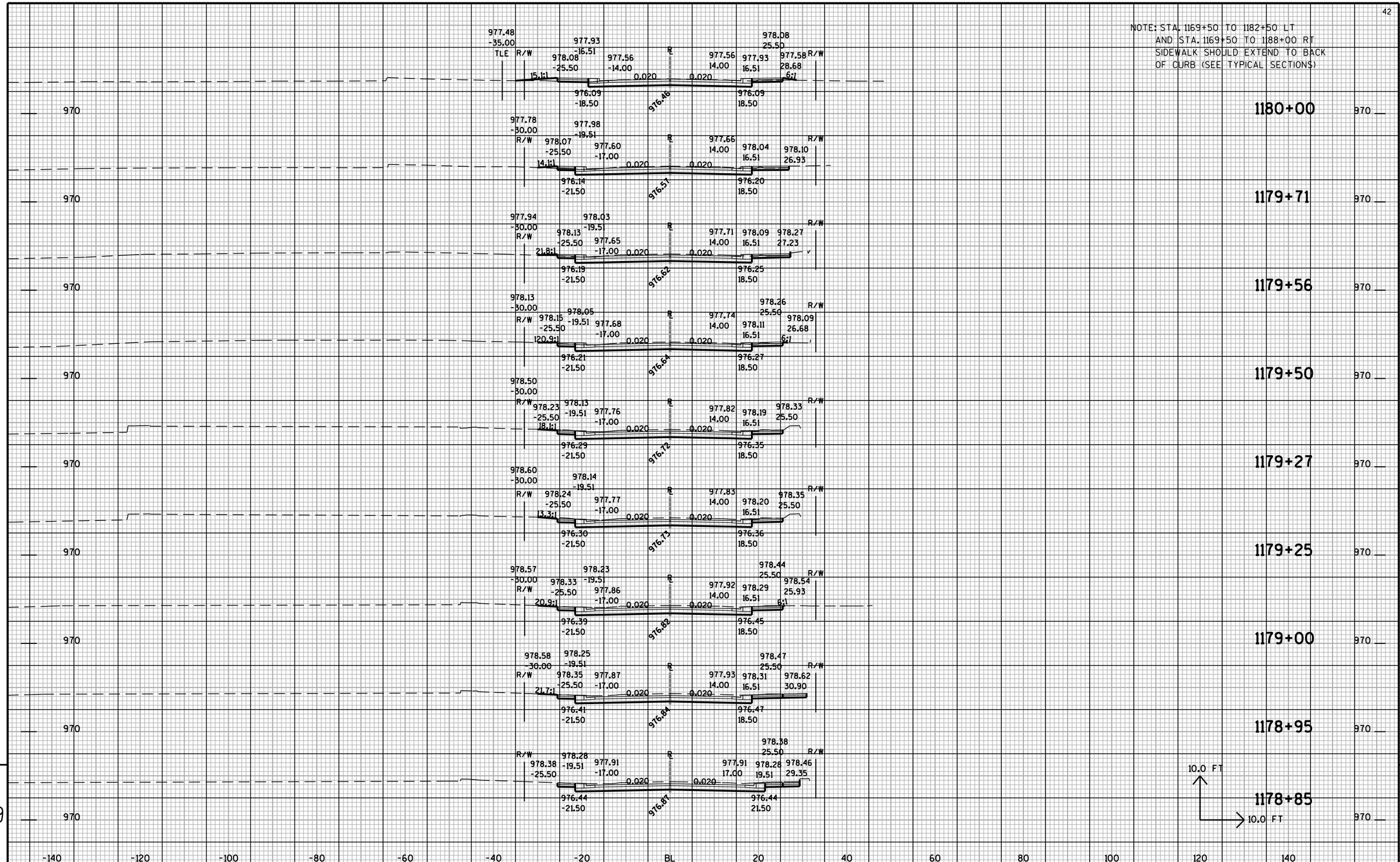
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO:	E

NOTE: STA. 1169+50 TO 1182+50 LT
AND STA. 1169+50 TO 1188+00 RT
SIDEWALK SHOULD EXTEND TO BACK
OF CURB (SEE TYPICAL SECTIONS)



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: E

NOTE: STA. 1169+50 TO 1182+50 LT
AND STA. 1169+50 TO 1188+00 RT
SIDEWALK SHOULD EXTEND TO BACK
OF CURB (SEE TYPICAL SECTIONS)



9

9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO:	E

FILE NAME : N:±PDS±Projects±33600900±DDE±Graphical Information±Plan Sheets±090201_xsml_1086-1194.dgn PLOT DATE : 13-MAY-2015 09:53 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 2:1

NOTE: STA. 1169+50 TO 1182+50 LT
AND STA. 1169+50 TO 1188+00 RT
SIDEWALK SHOULD EXTEND TO BACK
OF CURB (SEE TYPICAL SECTIONS)

STATION 1182+42. LT.
END CONCRETE SIDEWALK 5-INCH

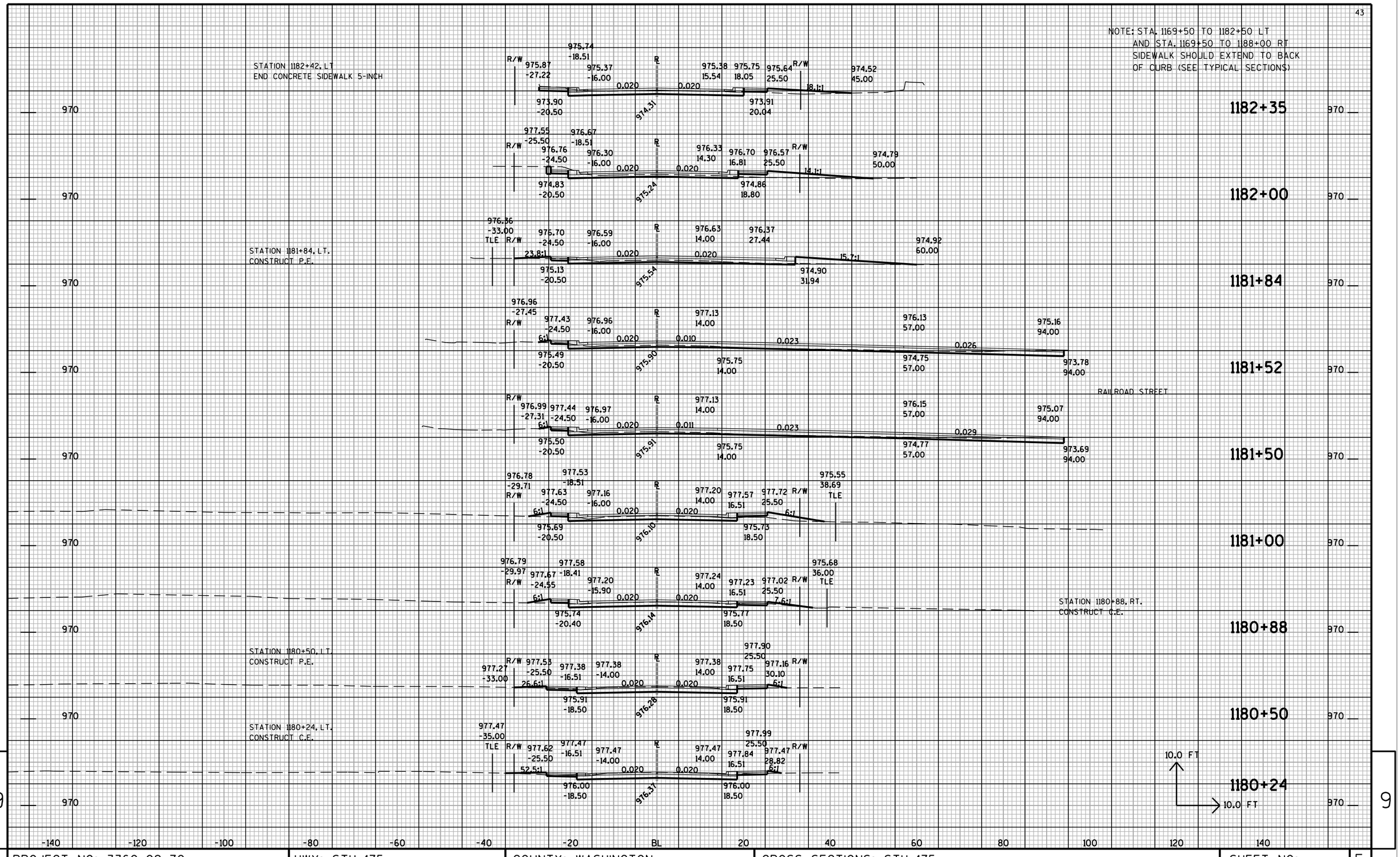
STATION 1181+84. LT.
CONSTRUCT P.E.

STATION 1180+50. LT.
CONSTRUCT P.E.

STATION 1180+24. LT.
CONSTRUCT C.E.

STATION 1180+88. RT.
CONSTRUCT C.E.

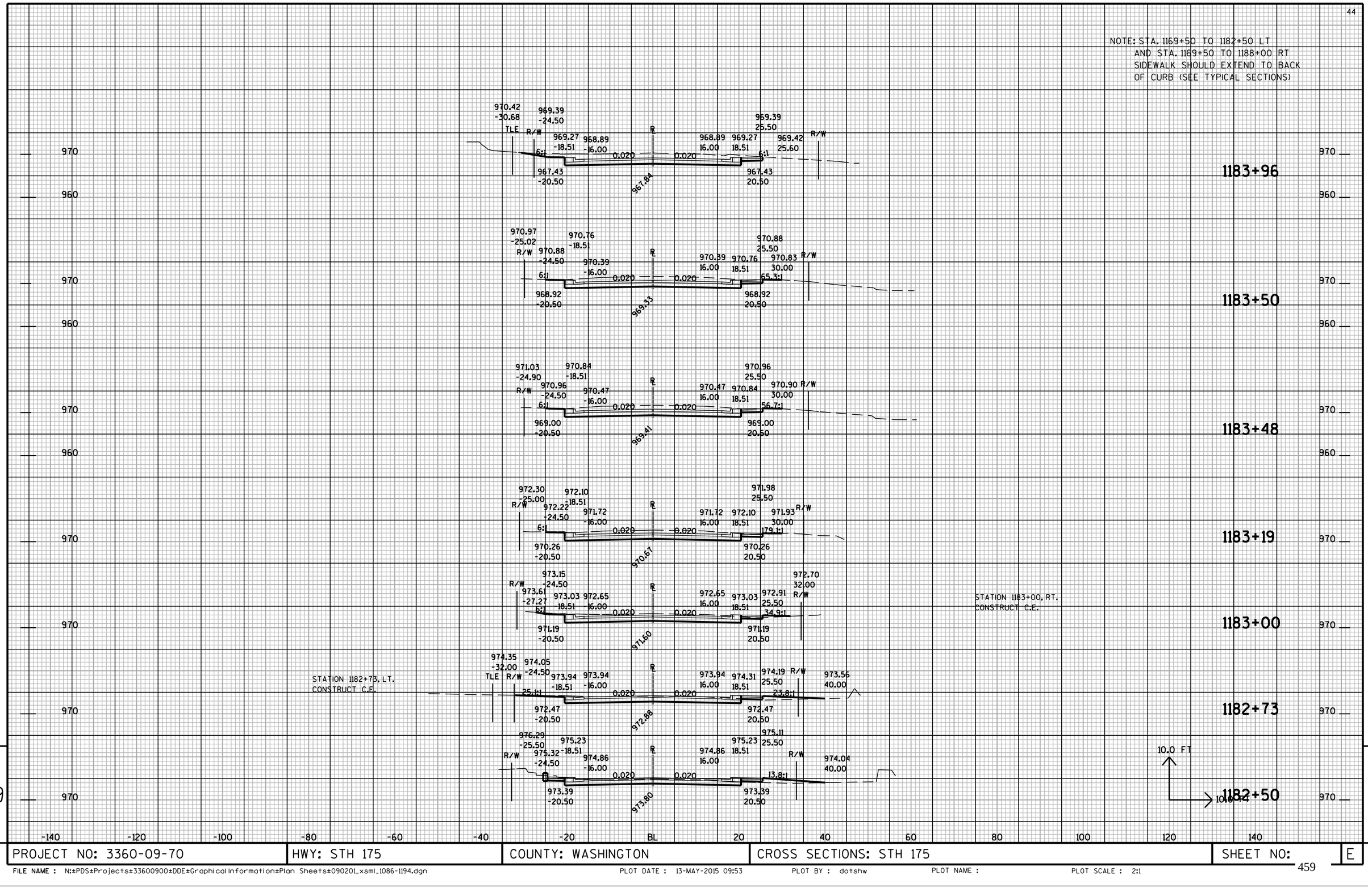
RAILROAD STREET



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO:	E

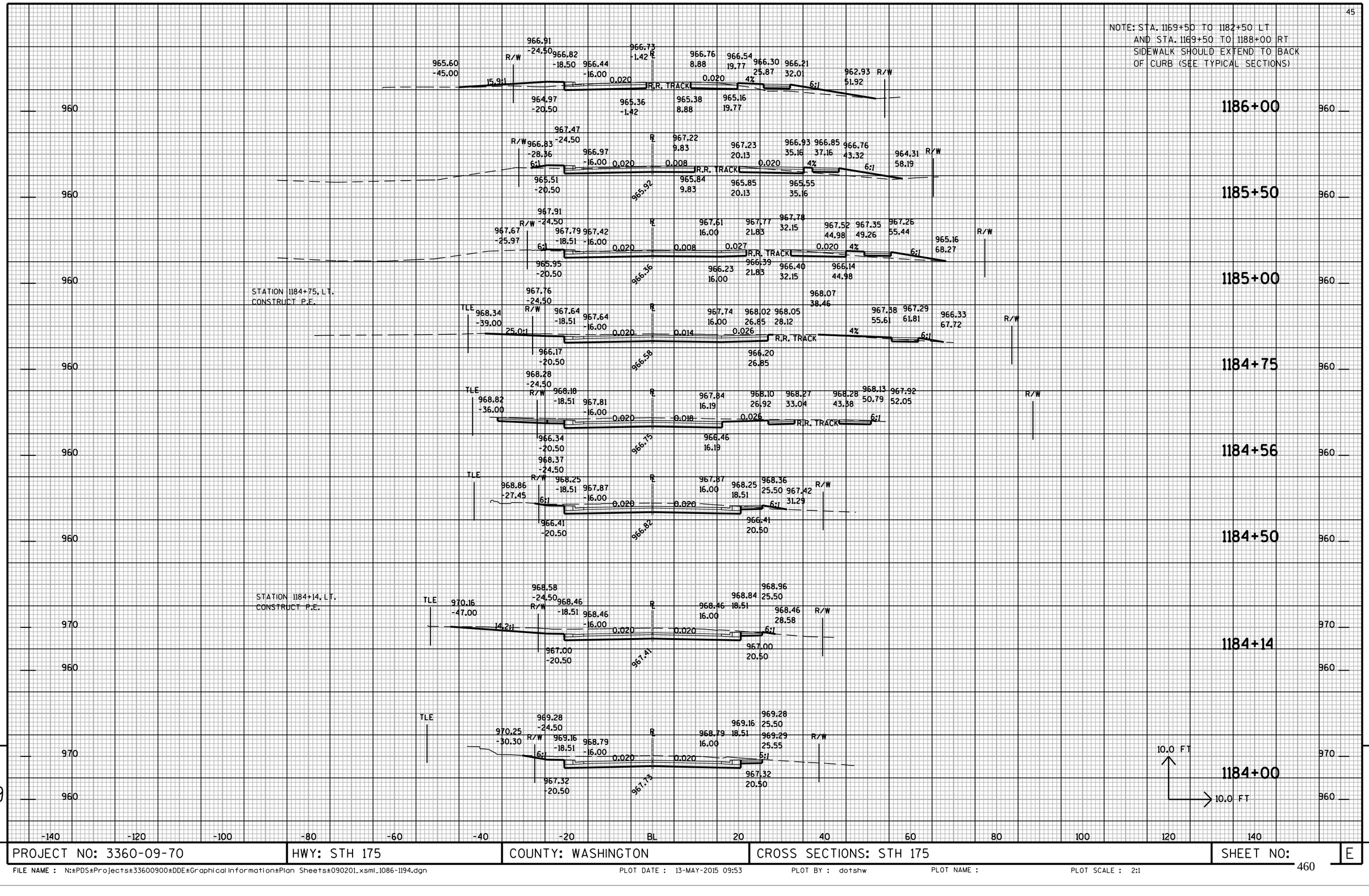
FILE NAME : N:±PDS±Projects±33600900±DDE±Graphical Information±Plan Sheets±090201_xsml_1086-1194.dgn PLOT DATE : 13-MAY-2015 09:53 PLOT BY : dotshw PLOT NAME : PLOT SCALE : 2:1

NOTE: STA. 1169+50 TO 1182+50 LT
AND STA. 1169+50 TO 1188+00 RT
SIDEWALK SHOULD EXTEND TO BACK
OF CURB (SEE TYPICAL SECTIONS)



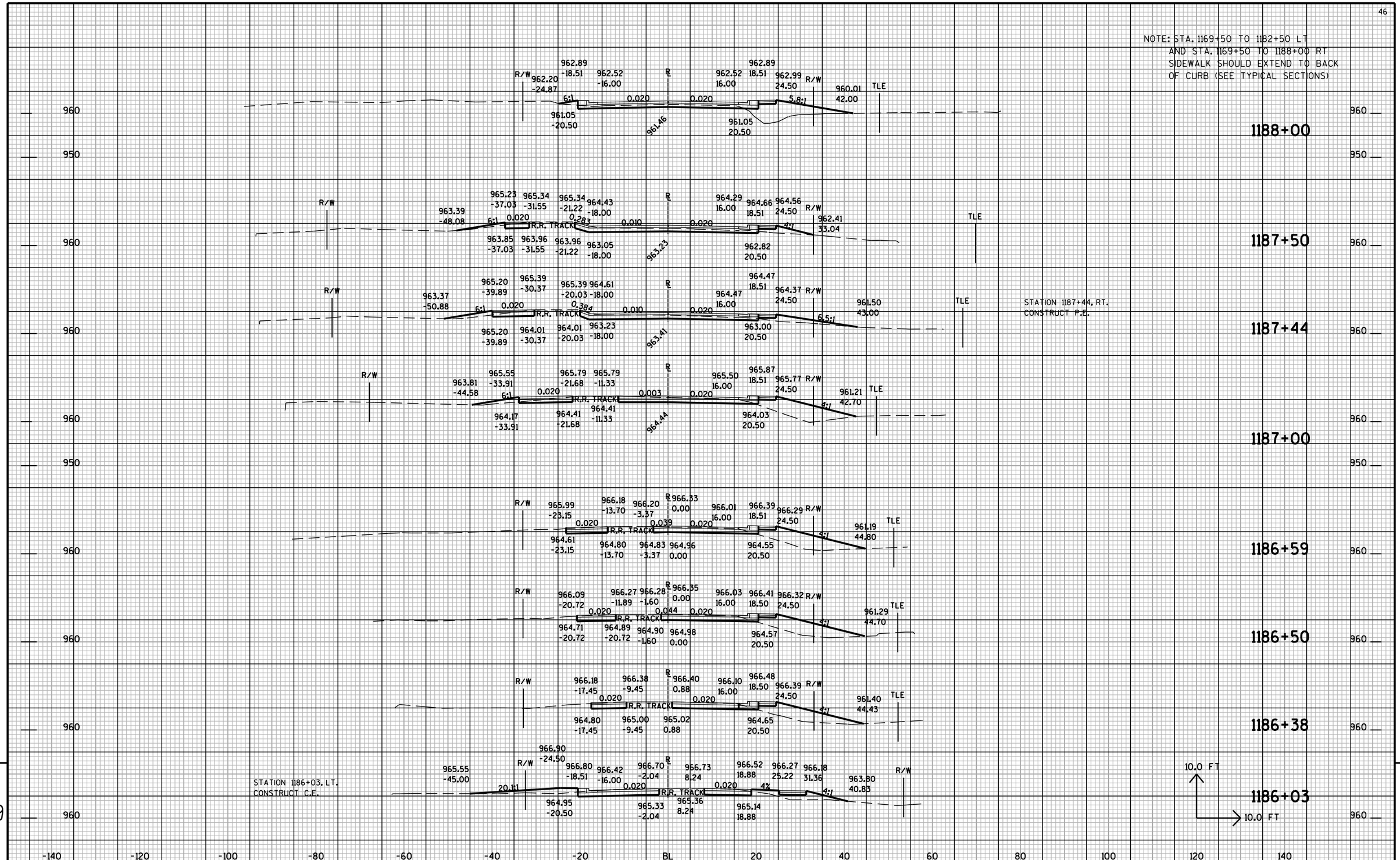
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO:	E

NOTE: STA. 1169+50 TO 1182+50 LT
AND STA. 1169+50 TO 1188+00 RT
SIDEWALK SHOULD EXTEND TO BACK
OF CURB (SEE TYPICAL SECTIONS)

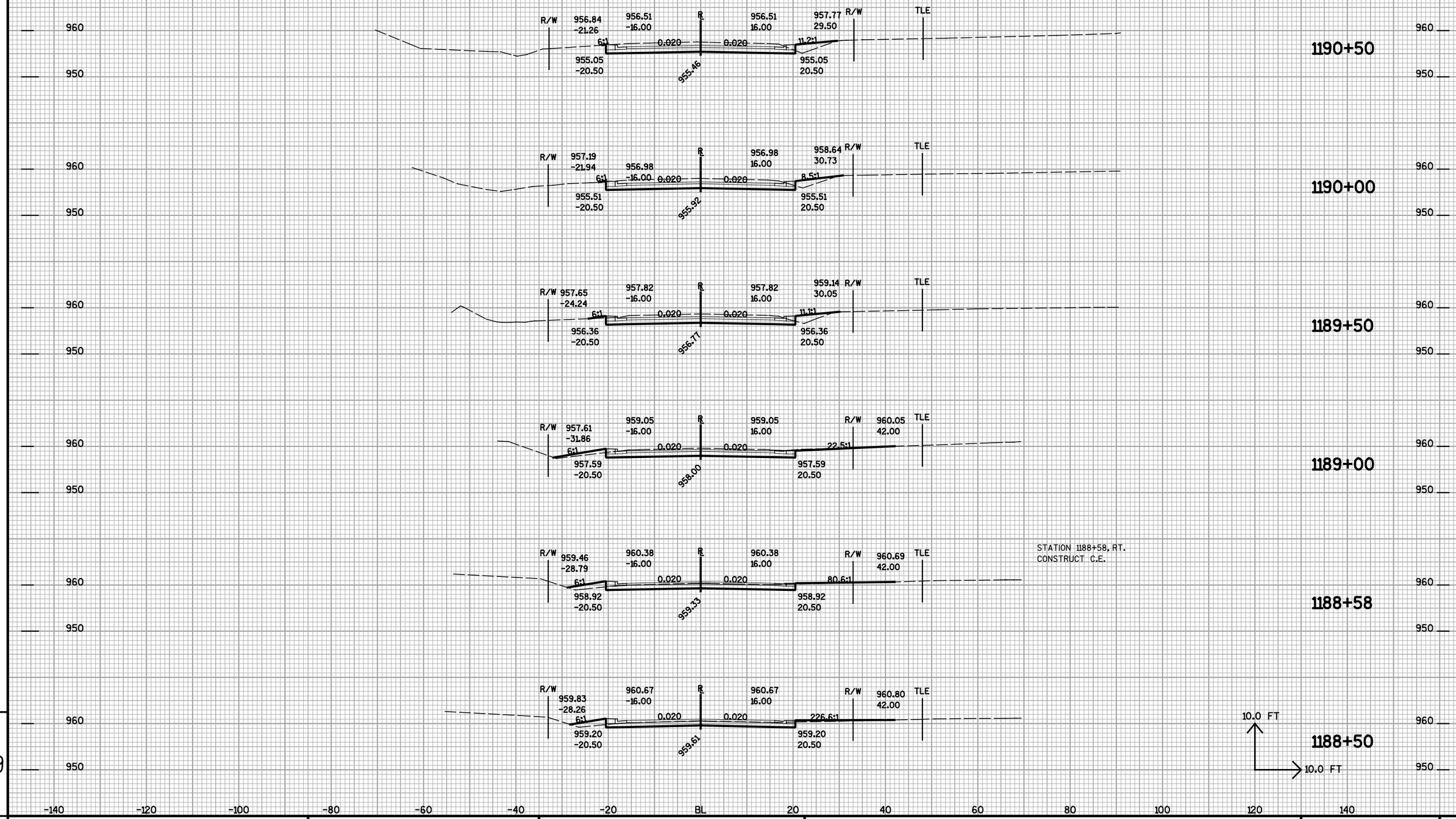


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: E

NOTE: STA. 1169+50 TO 1182+50 LT
AND STA. 1169+50 TO 1188+00 RT
SIDEWALK SHOULD EXTEND TO BACK
OF CURB (SEE TYPICAL SECTIONS)



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: E



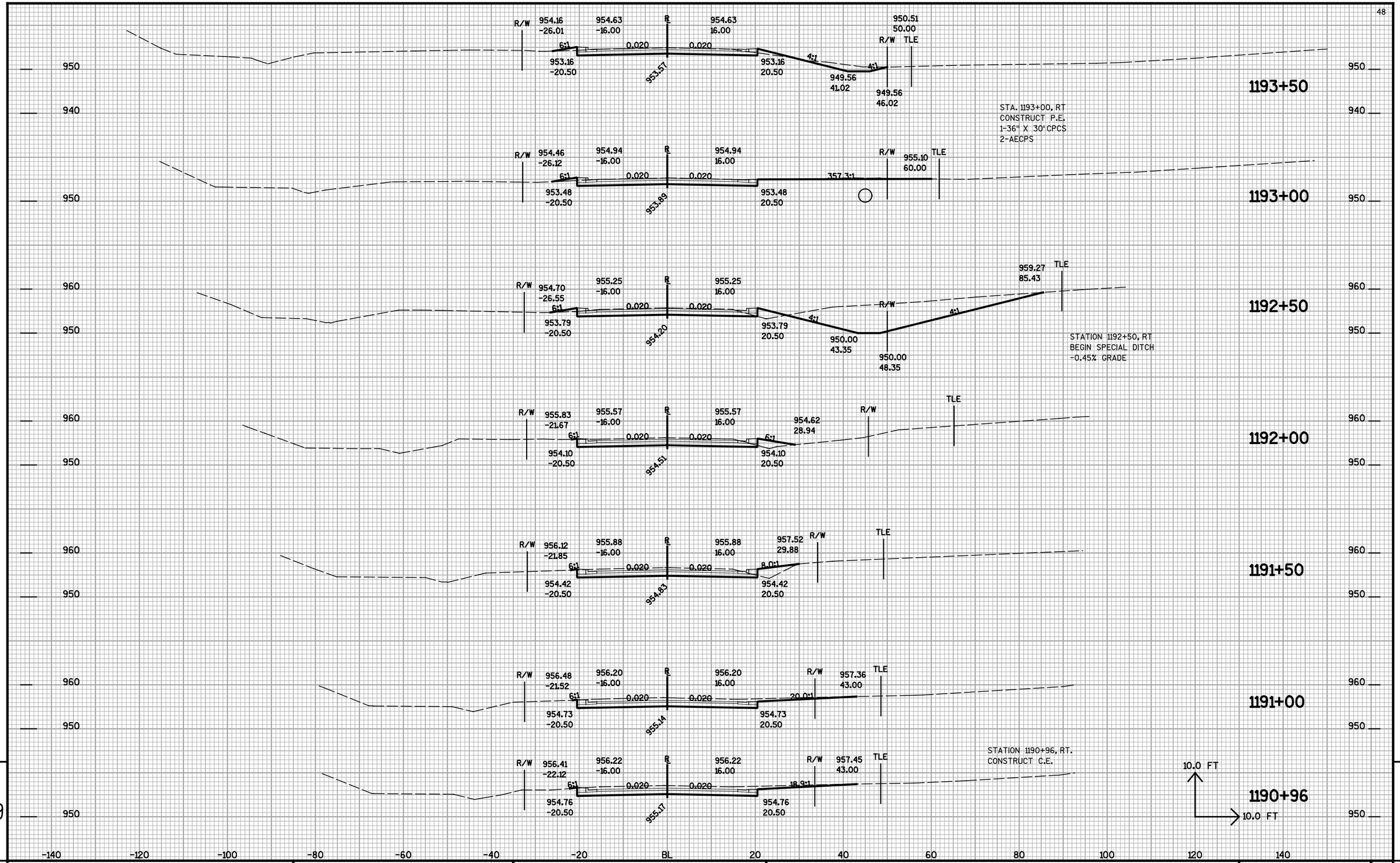
STATION 1188+58, RT.
CONSTRUCT C.E.

9

9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 462	E

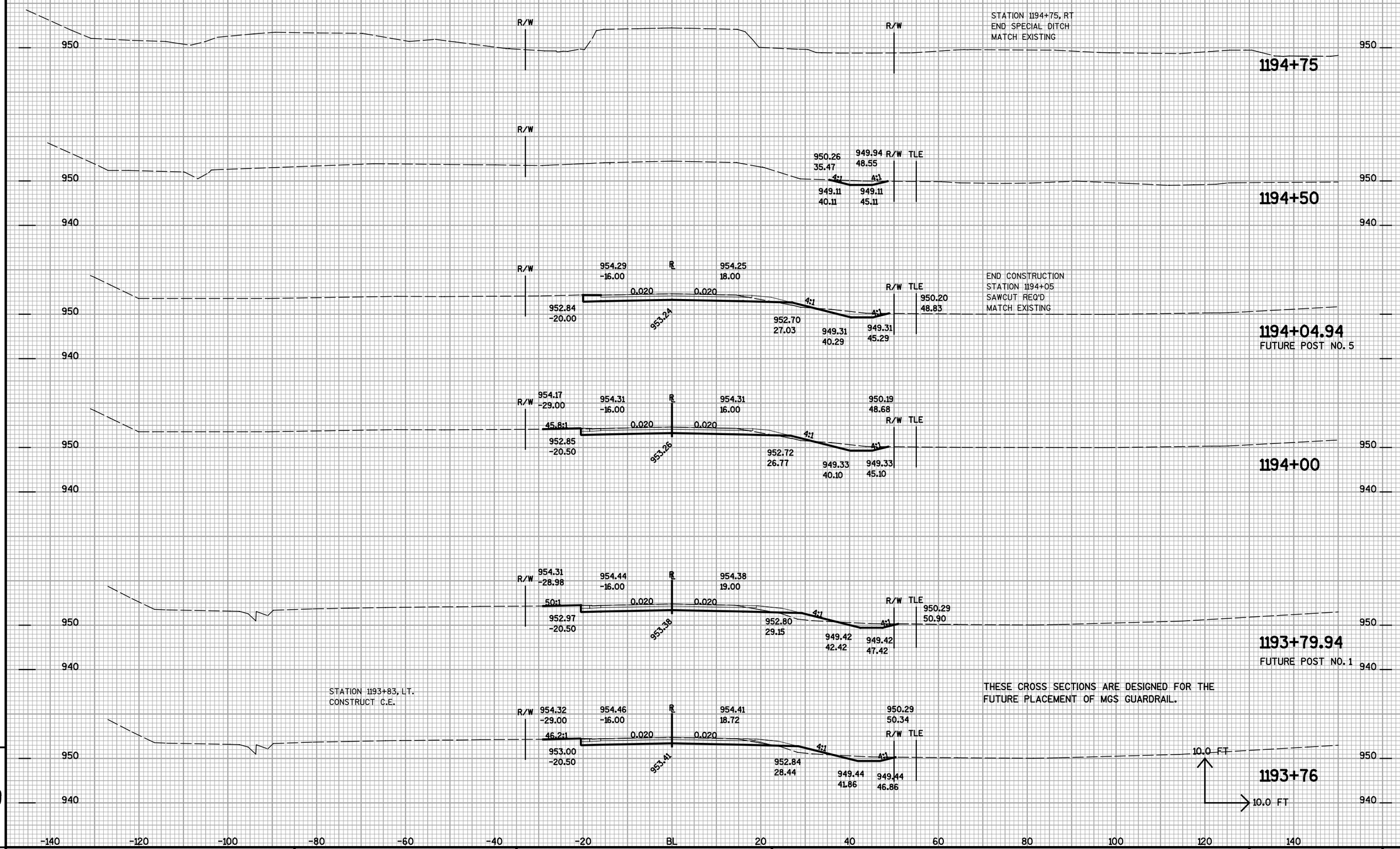
FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 11/6/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.



9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 463	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 2/24/2015 PLOT BY : JimO PLOT NAME : PLOT SCALE : 2.0000 sf / In.



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 175	SHEET NO: 464	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090201_xsml_1086-1194.dgn PLOT DATE : 2/24/2015 PLOT BY : JimO PLOT NAME : PLOT SCALE : 2.0000 sf / In.

STH 175

STH 175

988.14
-50.39

988.35 R
-0.39

988.40
9.61

988.60
49.61

988.85
99.61

0.004

0.005

0.005

0.005

986.77
-50.39

986.98
-0.39

987.03
9.61

987.23
49.61

987.48
99.61

990
980

99+81

989.61
-42.13

988.39
-32.54

R

987.90
40.90

990.67
59.80

R/W

TLE

6:1

0.010

0.020

6:1

986.97
-37.54

987.34

986.43
45.90

990
980

99+50

989.48
-20.09

TLE R/W

989.01
-15.00

R

988.70
30.40

989.75
38.91

R/W

6:1

0.020

0.020

6:1

987.54
-20.00

987.94

987.21
35.40

990
980

99+00

989.16
-24.30

TLE R/W

989.42
-15.00

R

989.25
24.06'

989.06
30.79

R/W

6:1

0.020

0.020

6:1

987.95
-20.00

988.35

987.76
26.59

980

98+50

989.11
-24.85

TLE R/W

989.46
-15.00

R

989.32
22.00

988.19
36.55

R/W

6:1

0.020

0.020

6:1

987.99
-20.00

988.39

987.82
27.00

980

98+00

988.93
-23.97

TLE R/W

989.14
-15.00

R

989.00
22.00

987.07
41.16

R/W

6:1

0.020

0.020

6:1

987.66
-20.00

988.06

987.52
27.00

980

97+50

STA. 97+00
SAWCUT REQ'D
MATCH EXISTING

TLE R/W

R/W

980

97+00

10.0 FT

10.0 FT

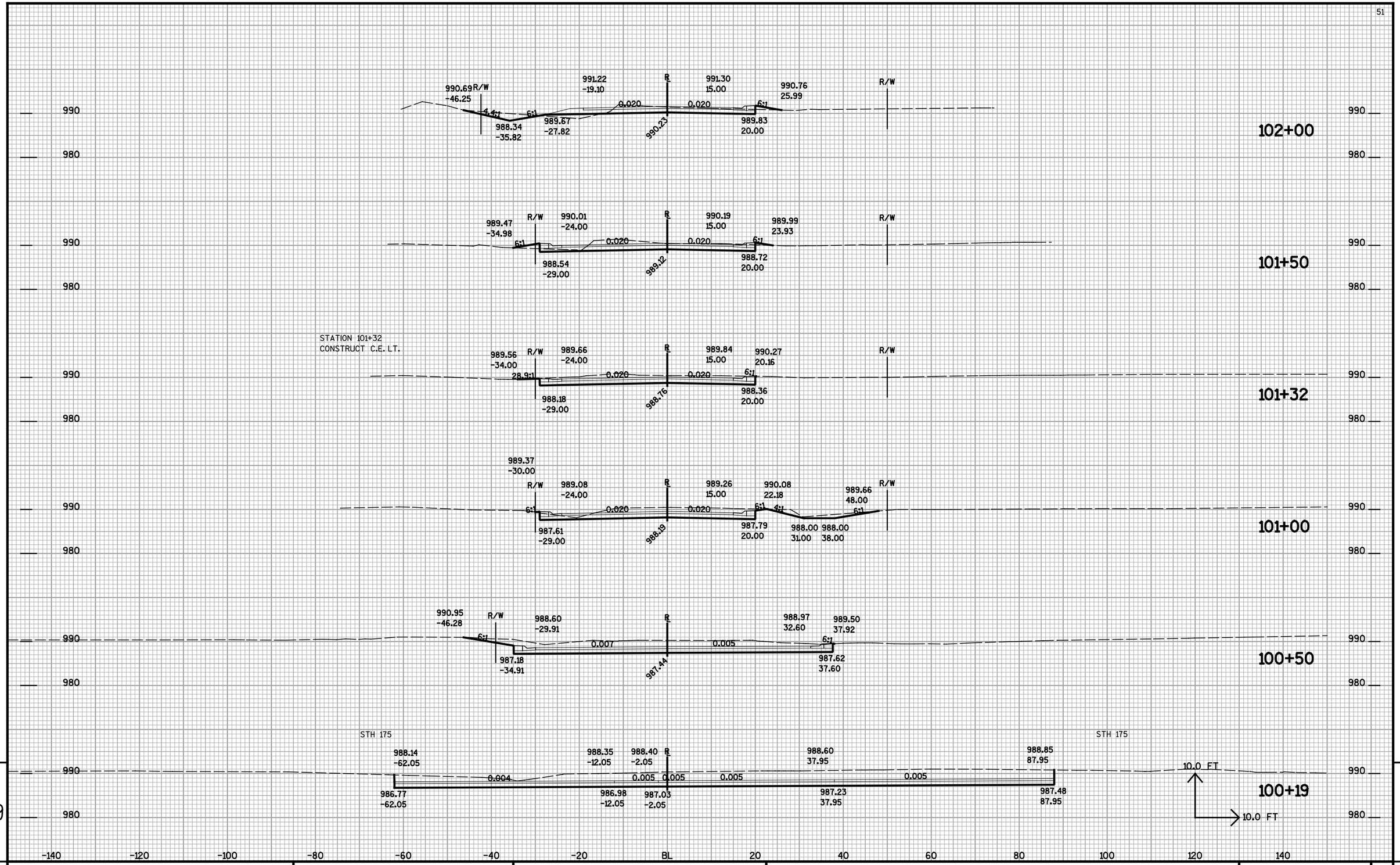
-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

9

9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: HUBERTUS	SHEET NO: 465	E

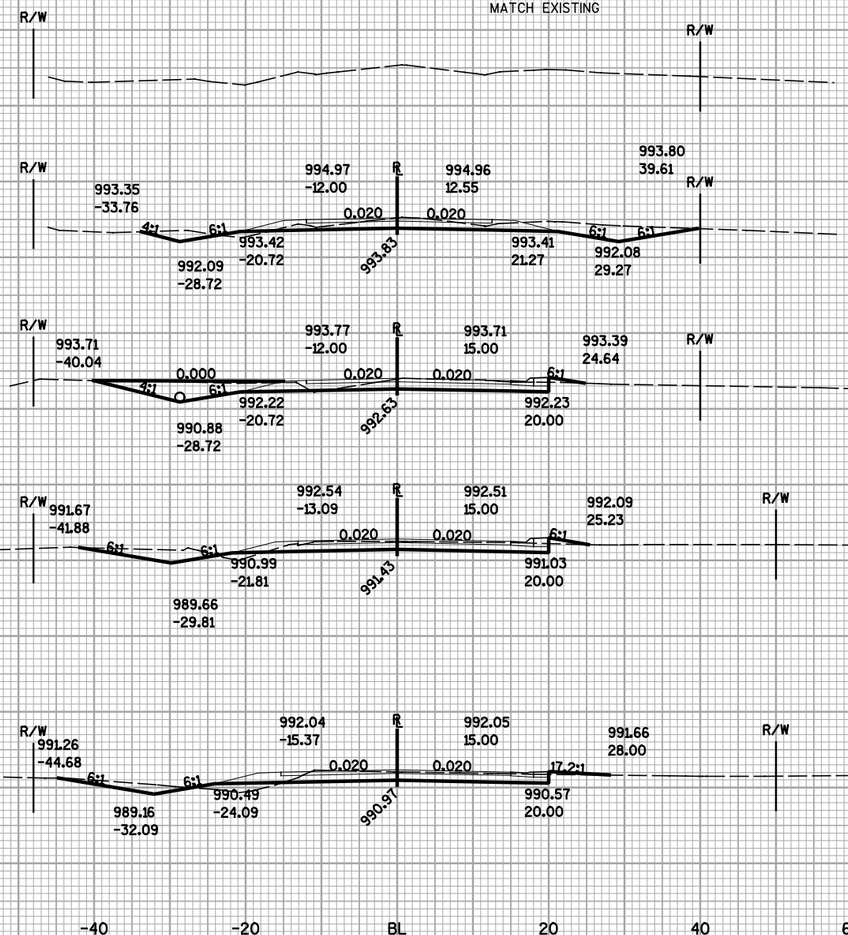
FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090204_xs_hubert.DGN PLOT DATE : 11/6/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: HUBERTUS	SHEET NO: 466	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090204_xs_hubert.DGN PLOT DATE : 11/6/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

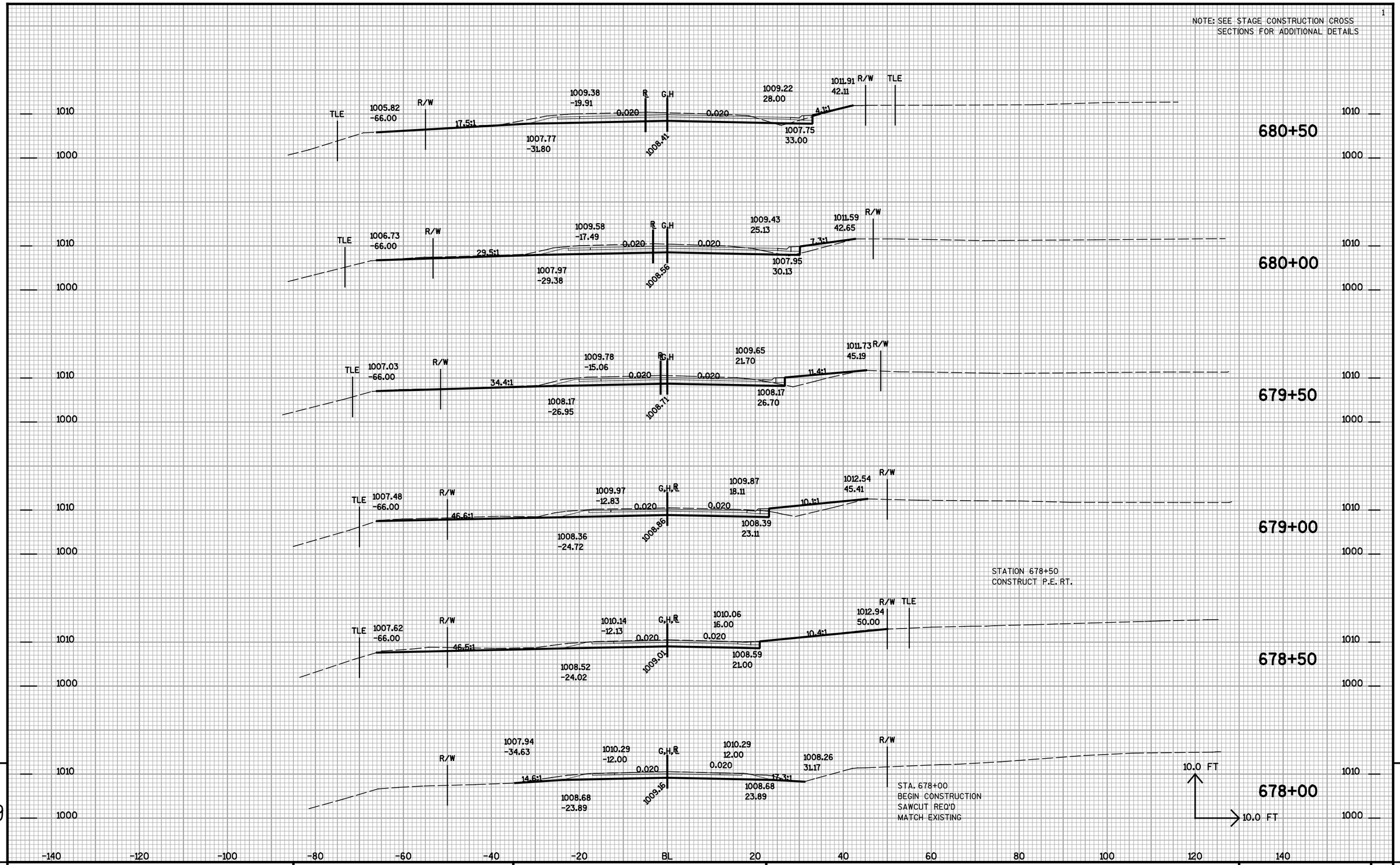
STA. 103+55
SAWCUT REQ'D
MATCH EXISTING



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: HUBERTUS	SHEET NO: 467	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090204_xs_hubert.DGN PLOT DATE : 11/6/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

NOTE: SEE STAGE CONSTRUCTION CROSS SECTIONS FOR ADDITIONAL DETAILS



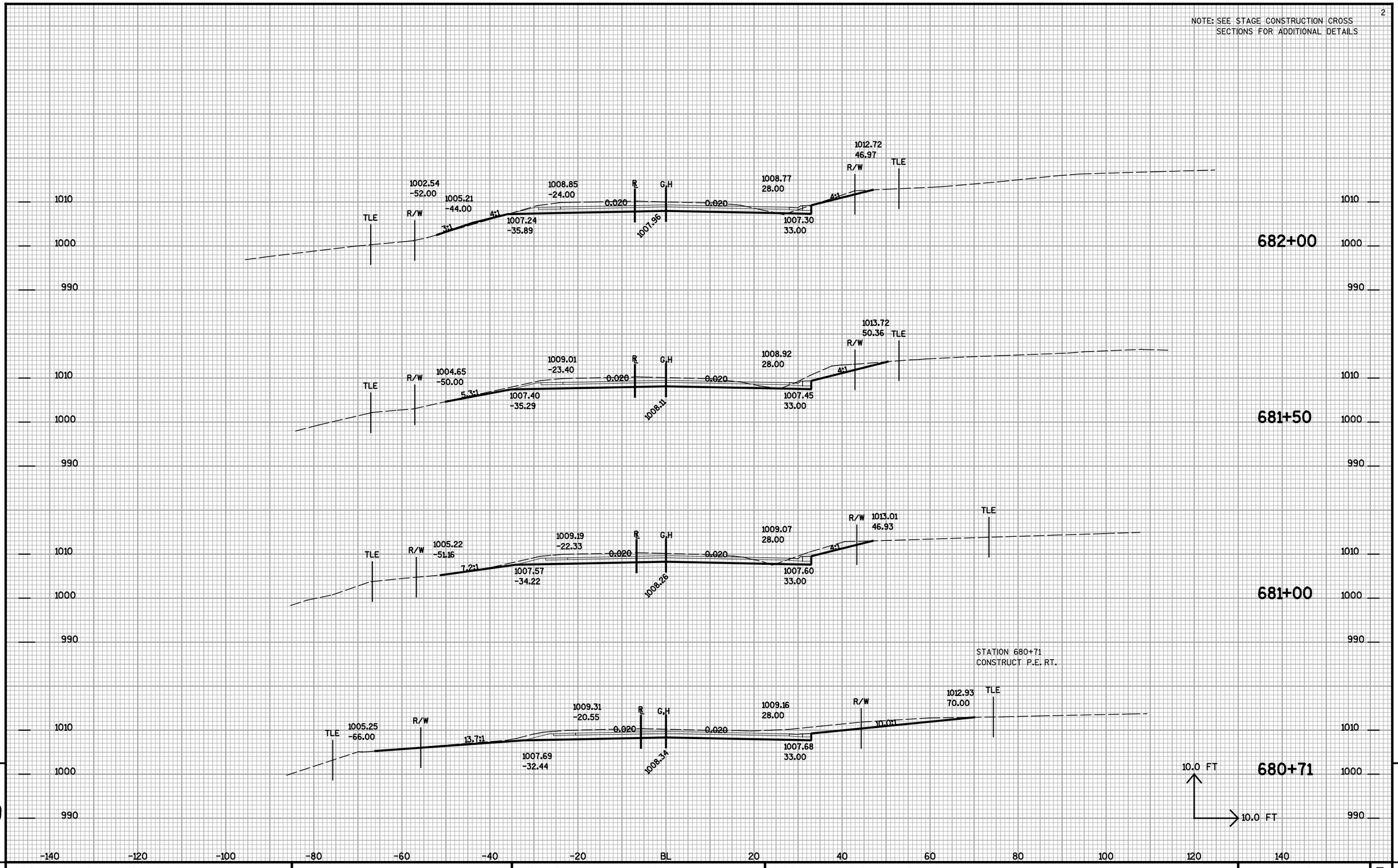
9

9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 167	SHEET NO: 468	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090205_xs_167_west.dgn PLOT DATE : 10/29/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

NOTE: SEE STAGE CONSTRUCTION CROSS SECTIONS FOR ADDITIONAL DETAILS



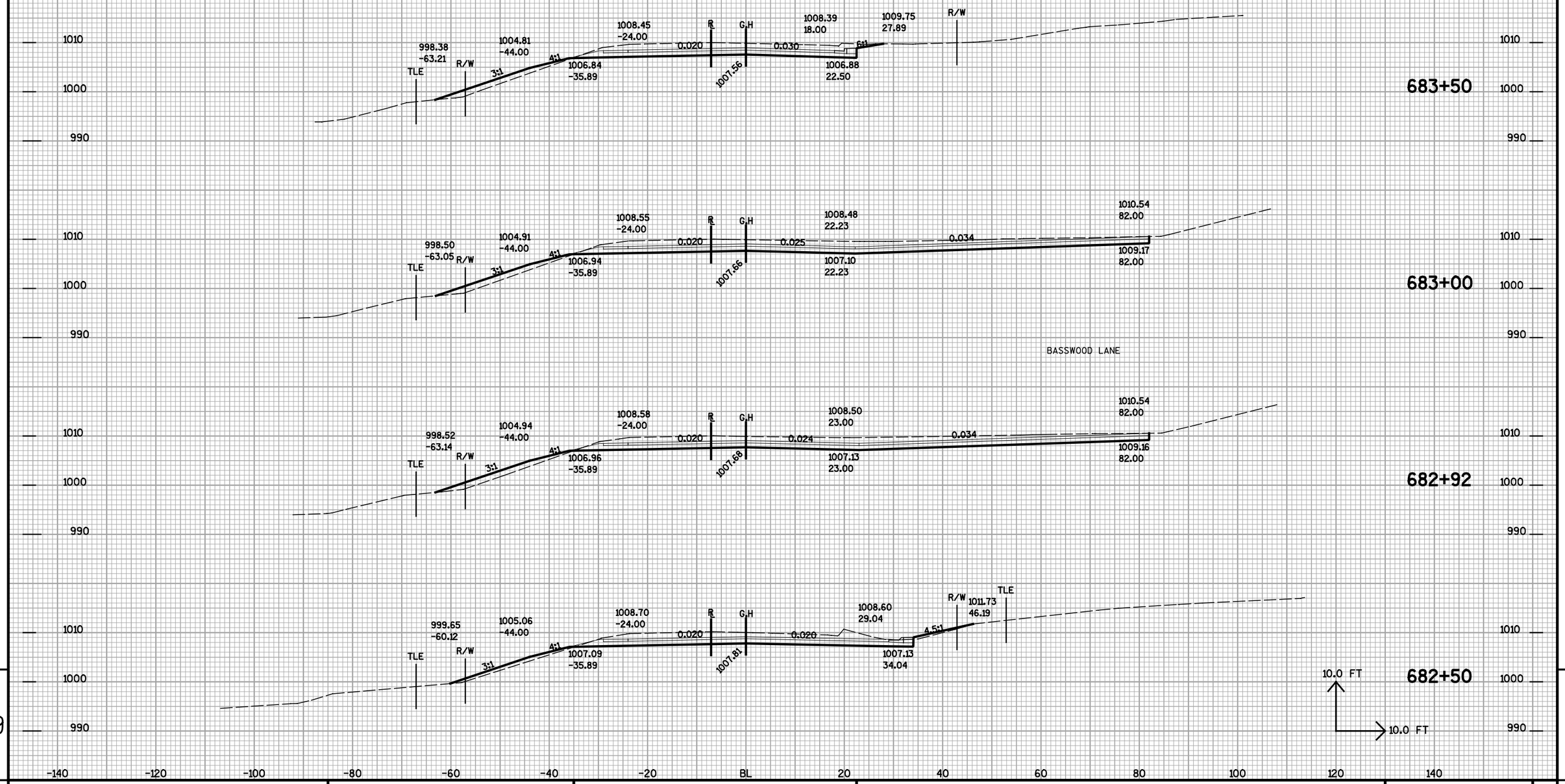
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9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 167	SHEET NO: 469	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090205_xs_167_west.dgn PLOT DATE : 10/29/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

NOTE: SEE STAGE CONSTRUCTION CROSS SECTIONS FOR ADDITIONAL DETAILS

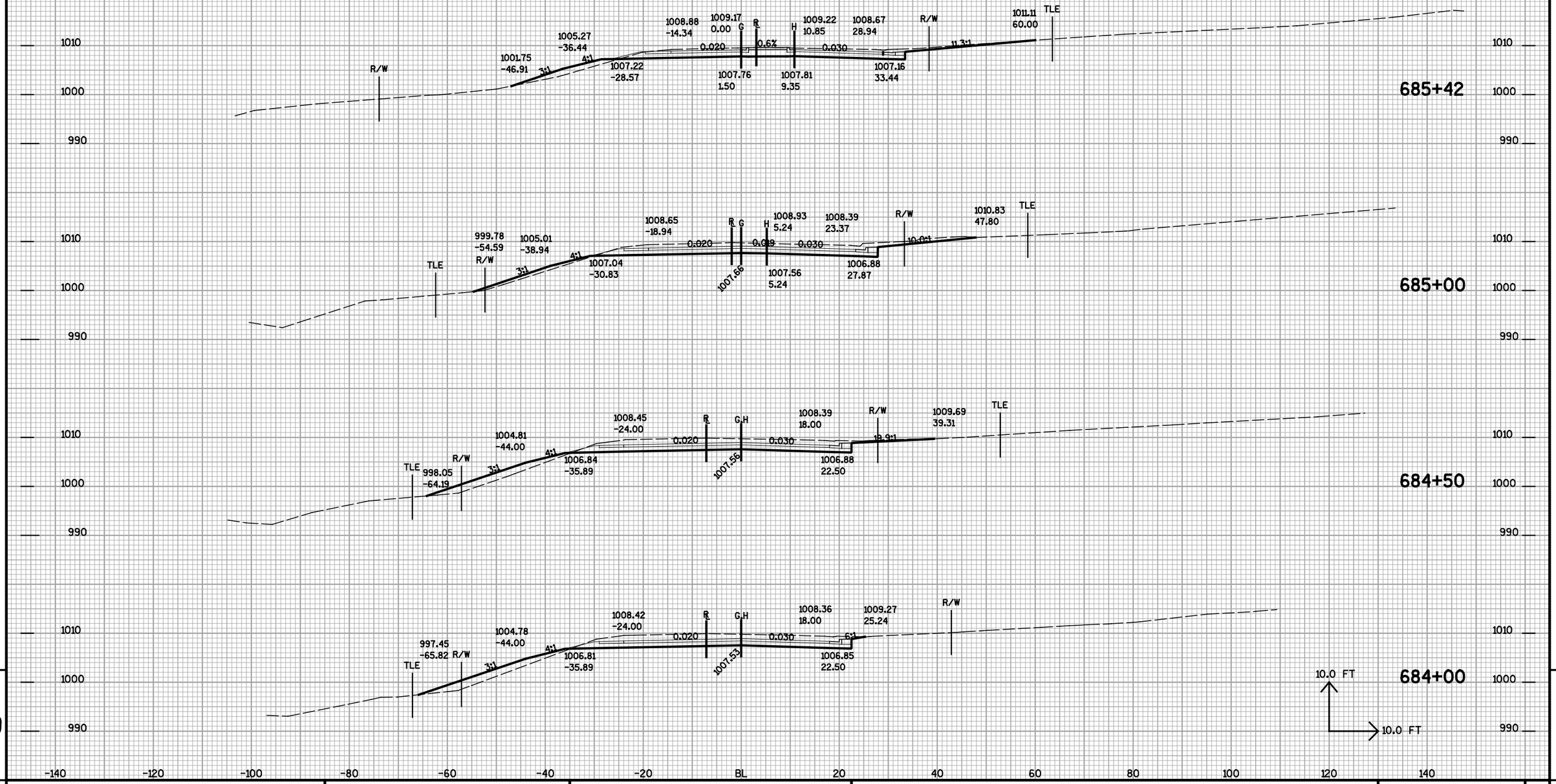


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 167	SHEET NO: 470 E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090205_xs_167_west.dgn PLOT DATE : 10/29/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

NOTE: SEE STAGE CONSTRUCTION CROSS SECTIONS FOR ADDITIONAL DETAILS

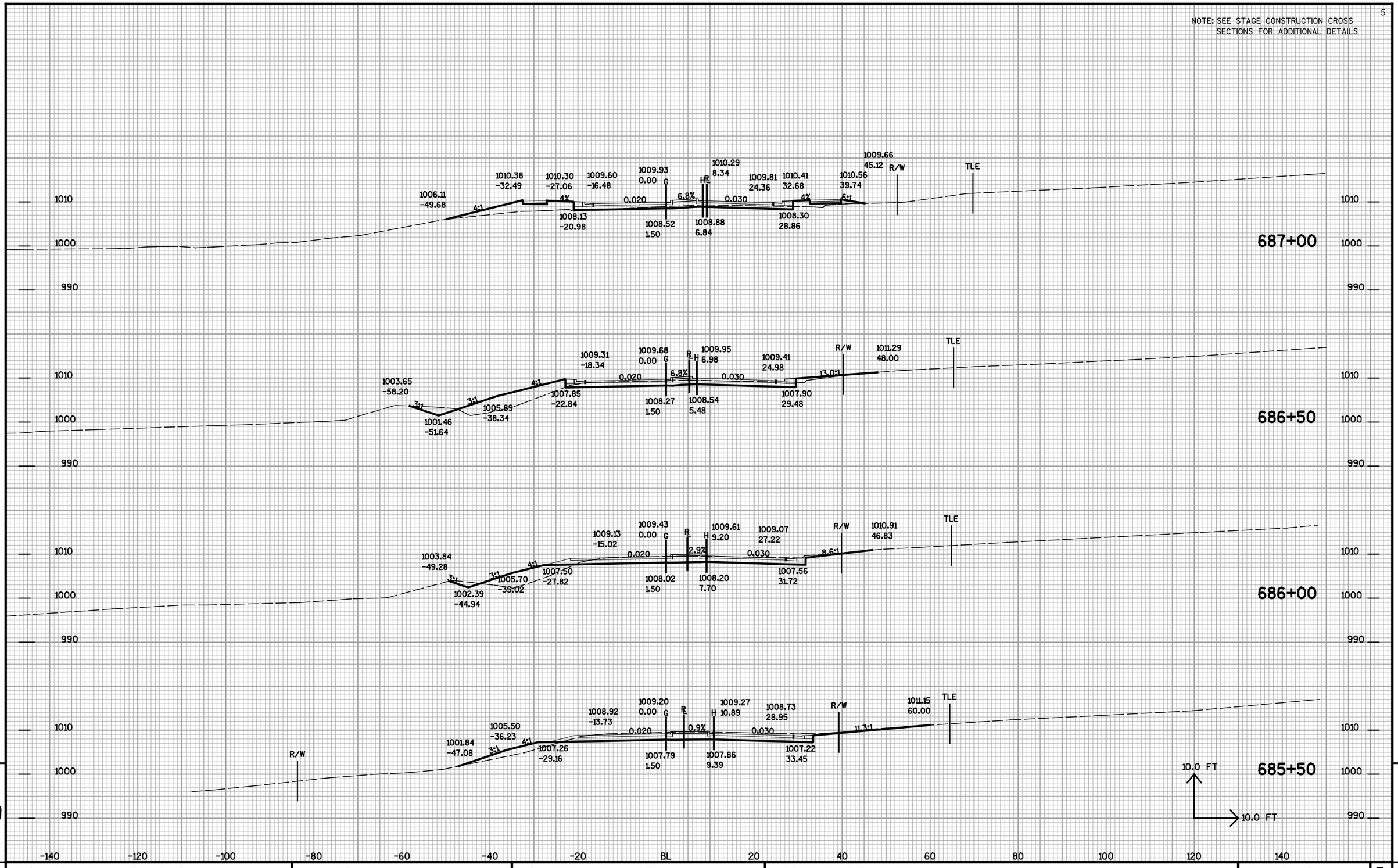
STATION 685+42
CONSTRUCT C.E. RT.



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 167	SHEET NO: 471	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090205_xs_167_west.dgn PLOT DATE : 10/29/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

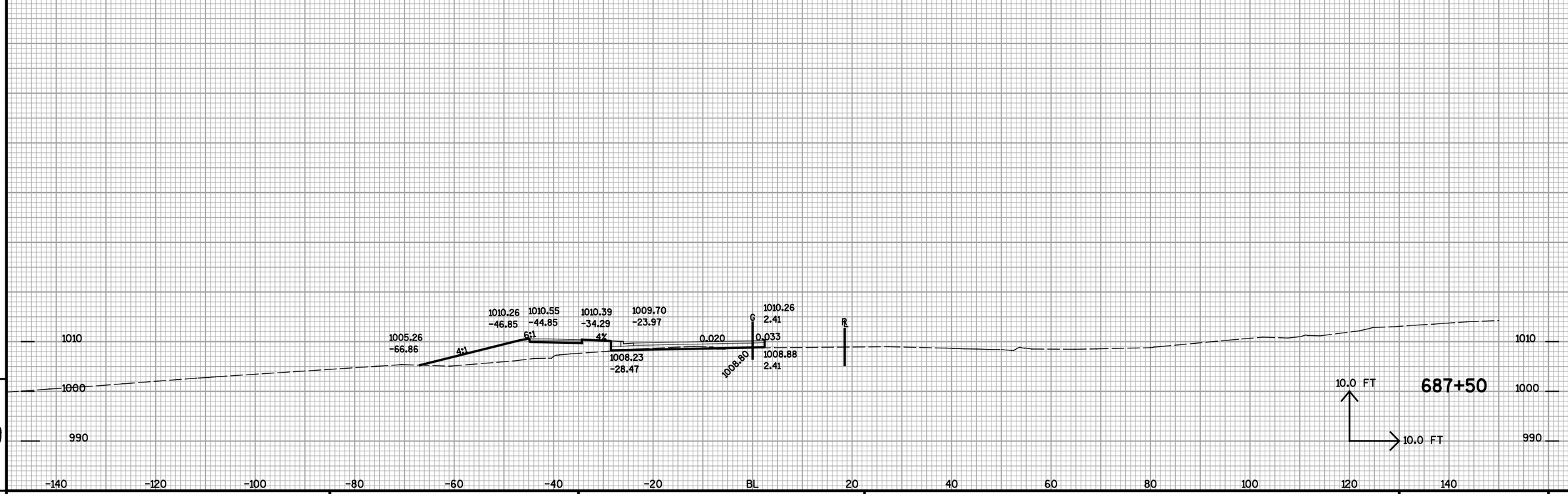
NOTE: SEE STAGE CONSTRUCTION CROSS SECTIONS FOR ADDITIONAL DETAILS



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 167	SHEET NO: 472 E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090205_xs_167_west.dgn PLOT DATE : 10/29/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

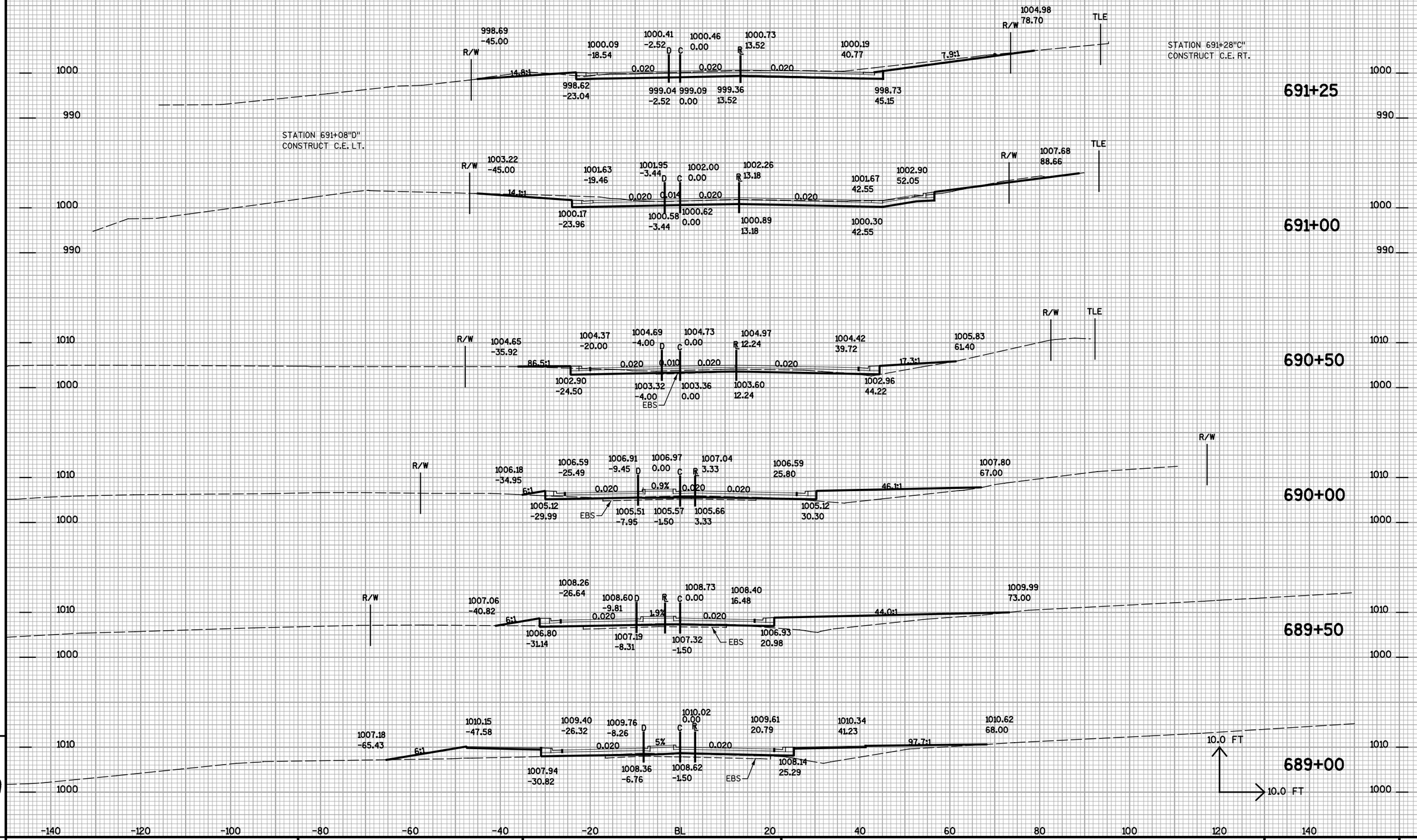
NOTE: SEE STAGE CONSTRUCTION CROSS SECTIONS FOR ADDITIONAL DETAILS



PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 167	SHEET NO: 473	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090205_xs_167_west.dgn PLOT DATE : 10/29/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

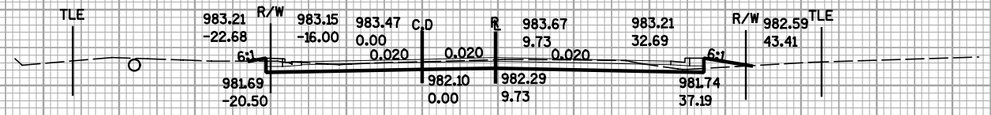
NOTE: SEE STAGE CONSTRUCTION CROSS SECTIONS FOR ADDITIONAL DETAILS



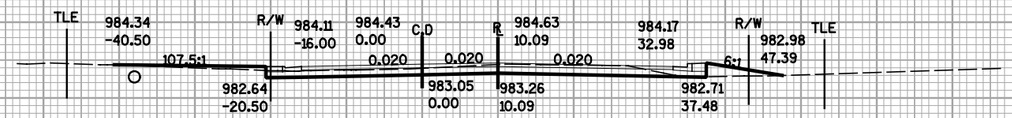
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 167	SHEET NO: 474	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090206_xs_167_east.DGN PLOT DATE : 12/3/2014 PLOT BY : JimO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

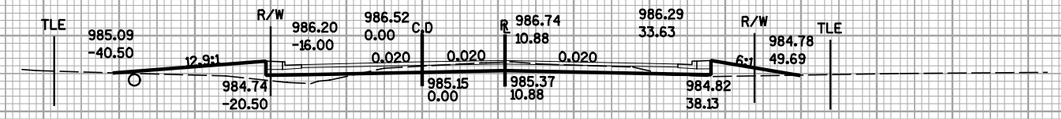
NOTE: SEE STAGE CONSTRUCTION CROSS SECTIONS FOR ADDITIONAL DETAILS



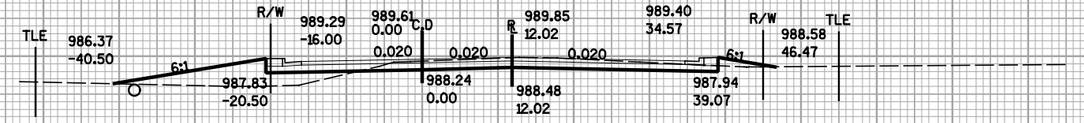
694+00



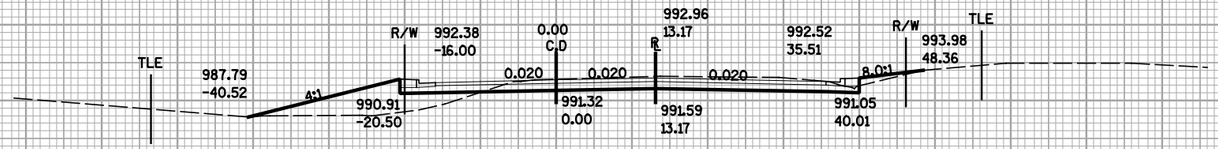
693+84



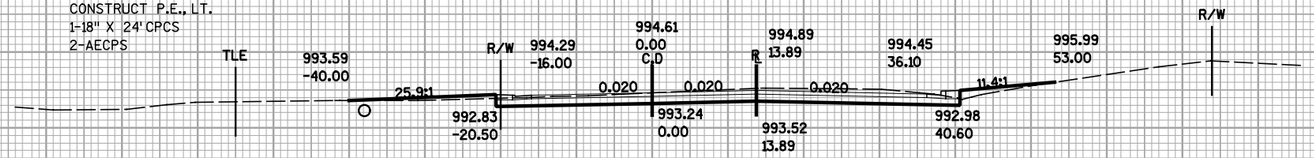
693+50



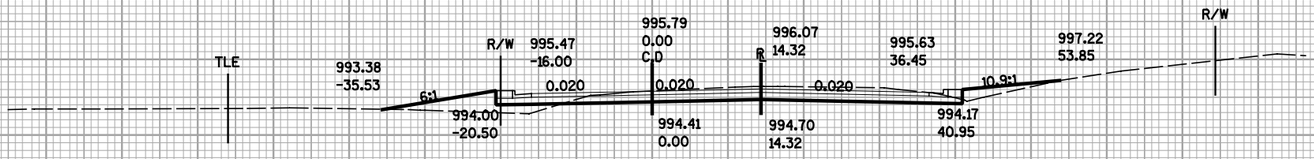
693+00



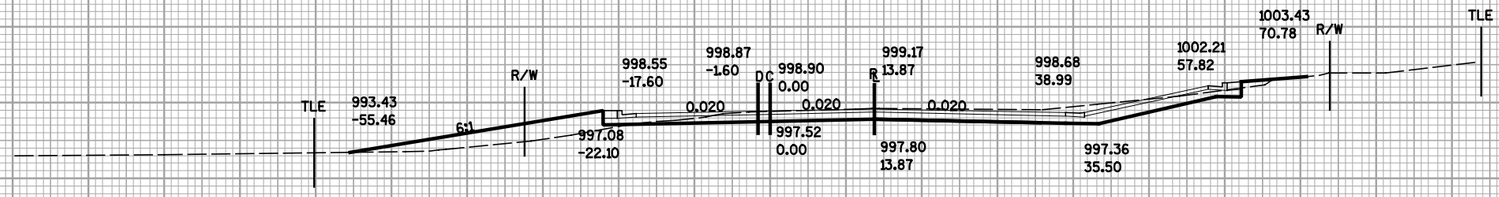
692+50



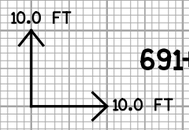
692+19



692+00



691+50

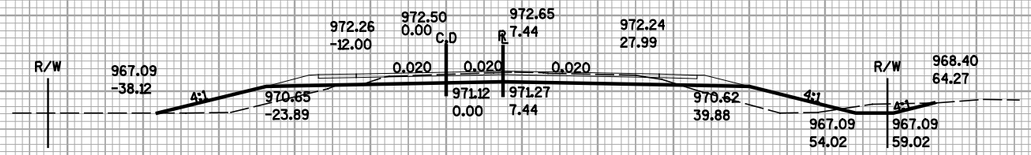


-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 167	SHEET NO: 475	E

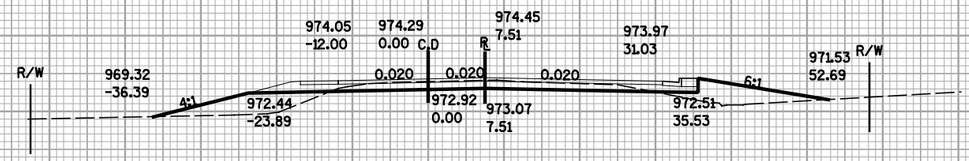
FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090206_xs_167_east.DGN PLOT DATE : 12/10/2014 PLOT BY : JimO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

NOTE: SEE STAGE CONSTRUCTION CROSS SECTIONS FOR ADDITIONAL DETAILS

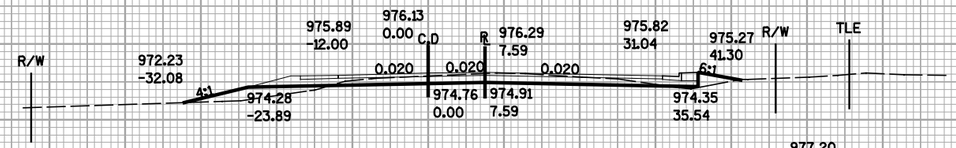


696+50

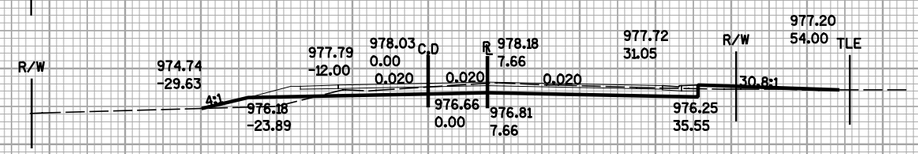
STATION 696+35"C", RT
BEGIN SPECIAL DITCH
-3.27% GRADE



696+00

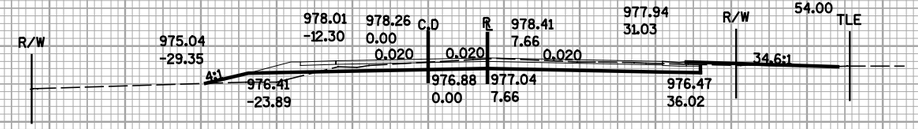


695+50

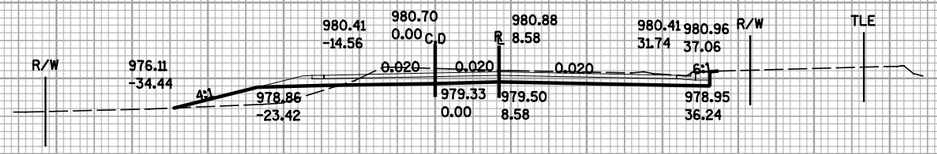


695+05

STATION 695+05"C"
CONSTRUCT P.E. RT.

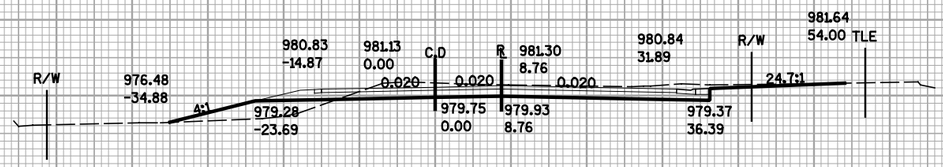


695+00



694+50

STATION 694+42"C"
CONSTRUCT P.E. RT.



694+42

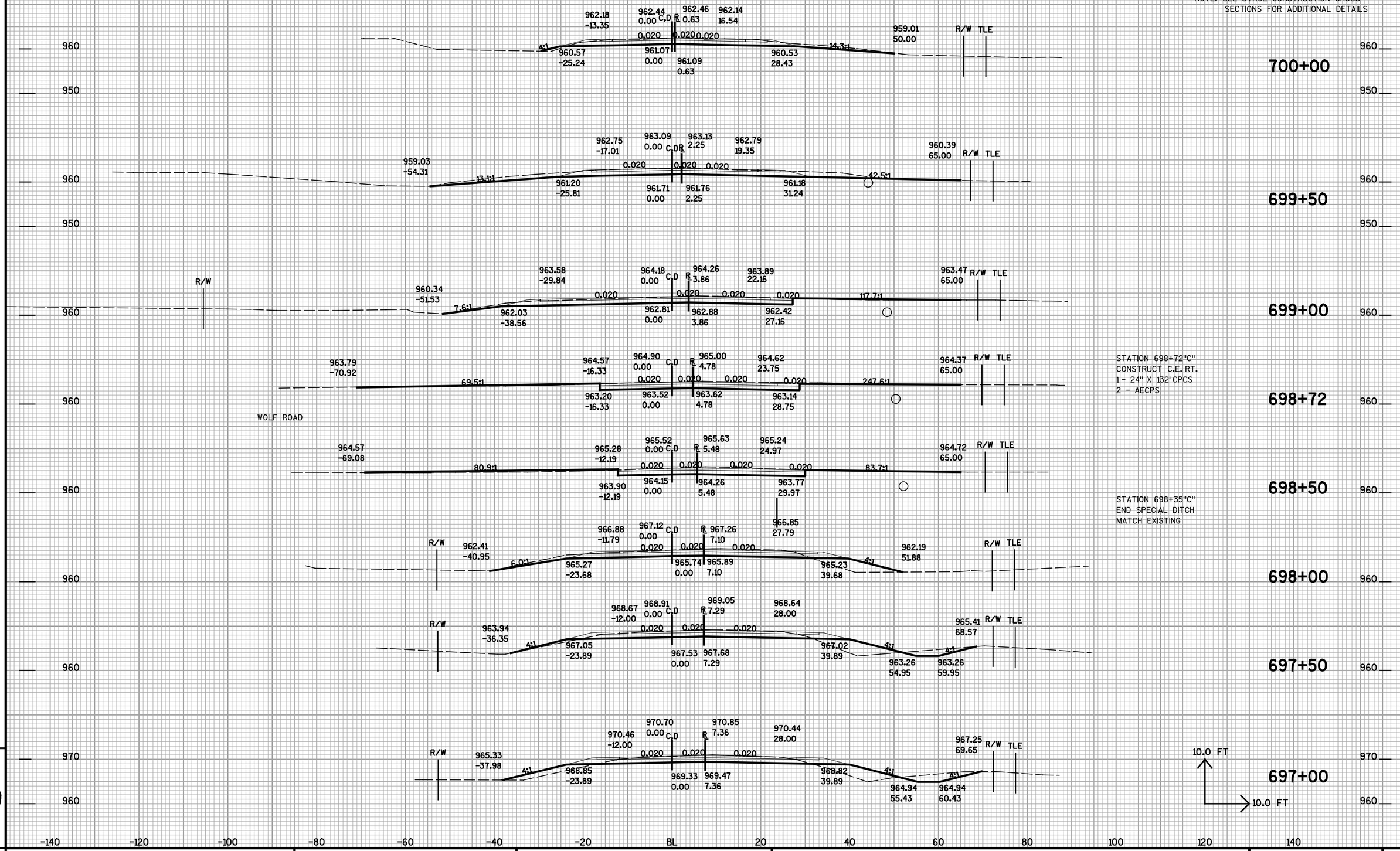
10.0 FT
10.0 FT

-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 167	SHEET NO: 476	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090206_xs_167_east.DGN PLOT DATE : 10/29/2014 PLOT BY : MikeCO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

NOTE: SEE STAGE CONSTRUCTION CROSS SECTIONS FOR ADDITIONAL DETAILS



STATION 698+72"C"
CONSTRUCT C.E. RT.
1 - 24" X 132' CPCS
2 - AECPS

STATION 698+35"C"
END SPECIAL DITCH
MATCH EXISTING

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 167	SHEET NO: 477	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090206_xs_167_east.DGN PLOT DATE : 10/29/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.

NOTE: SEE STAGE CONSTRUCTION CROSS SECTIONS FOR ADDITIONAL DETAILS

STATION 701+50.00
END CONSTRUCTION
SAWCUT REQ'D
MATCH EXISTING

STATION 700+19.60 TO STATION 701+50.00
MILL AND REPLACE ASPHALT SECTION



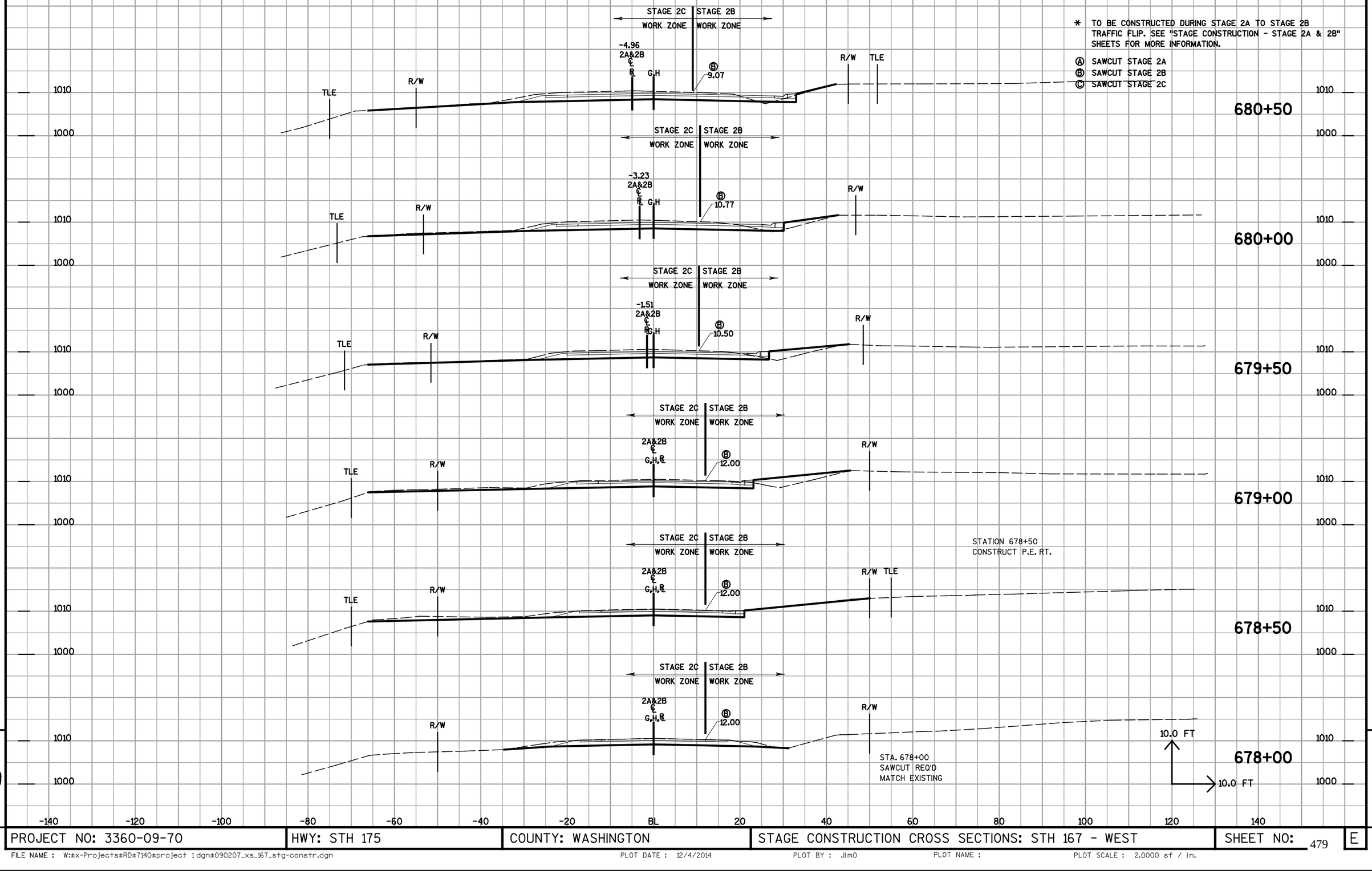
9 9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	CROSS SECTIONS: STH 167	SHEET NO: 478	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090206_xs_167_east.DGN PLOT DATE : 10/29/2014 PLOT BY : MIkeCO PLOT NAME : PLOT SCALE : 2.0000 sf / In.

* TO BE CONSTRUCTED DURING STAGE 2A TO STAGE 2B TRAFFIC FLIP. SEE "STAGE CONSTRUCTION - STAGE 2A & 2B" SHEETS FOR MORE INFORMATION.

Ⓐ SAWCUT STAGE 2A
Ⓑ SAWCUT STAGE 2B
Ⓒ SAWCUT STAGE 2C

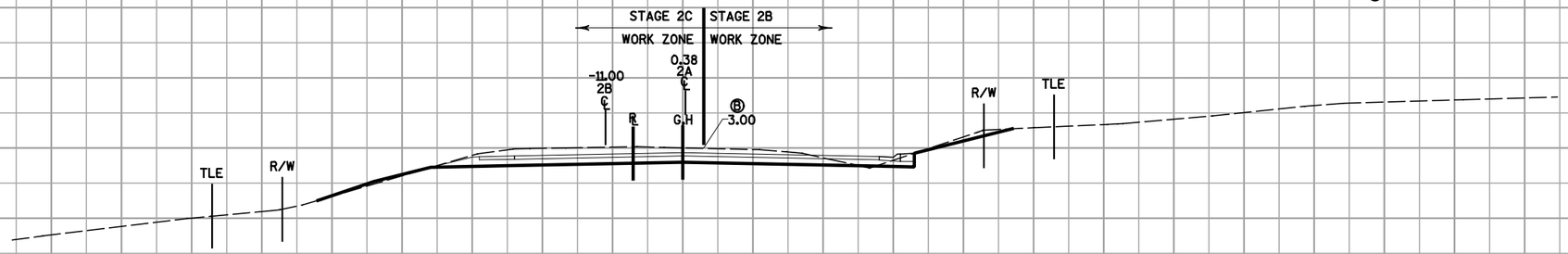


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STAGE CONSTRUCTION CROSS SECTIONS: STH 167 - WEST	SHEET NO: 479	E

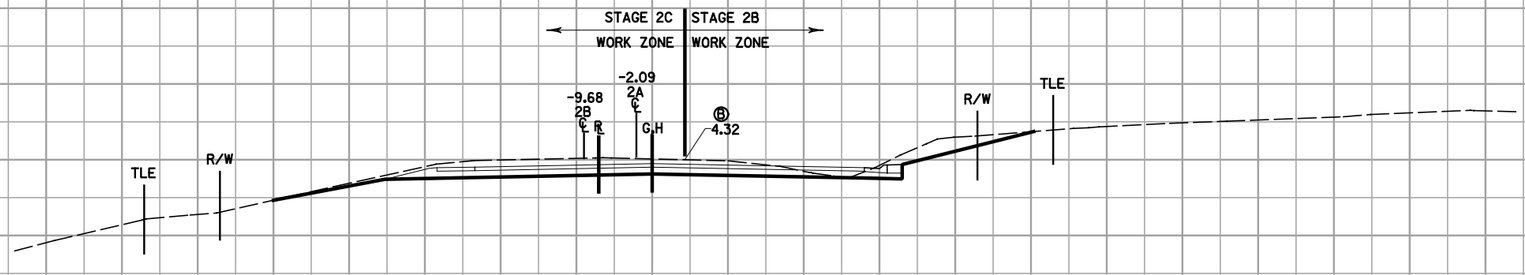
FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090207_xs_167_stg-constr.dgn PLOT DATE : 12/4/2014 PLOT BY : JIm0 PLOT NAME : PLOT SCALE : 2.0000 sf / in.

* TO BE CONSTRUCTED DURING STAGE 2A TO STAGE 2B TRAFFIC FLIP. SEE "STAGE CONSTRUCTION - STAGE 2A & 2B" SHEETS FOR MORE INFORMATION.

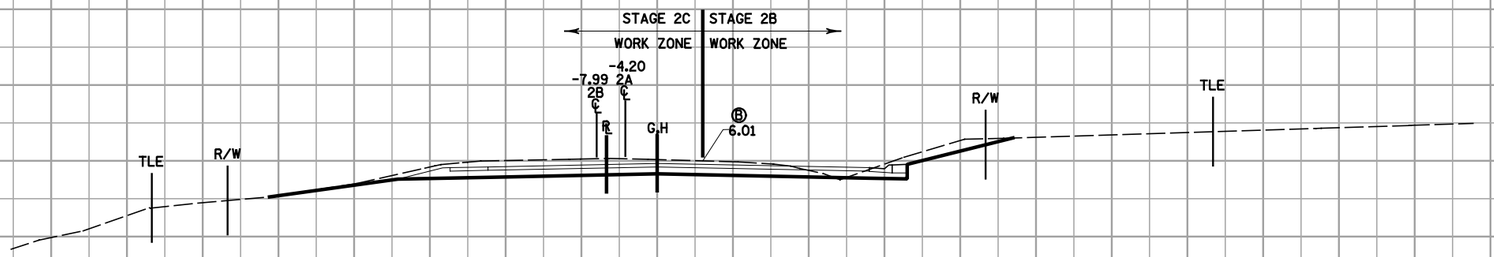
Ⓐ SAWCUT STAGE 2A
Ⓑ SAWCUT STAGE 2B
Ⓒ SAWCUT STAGE 2C



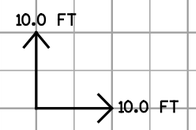
682+00



681+50



681+00



-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

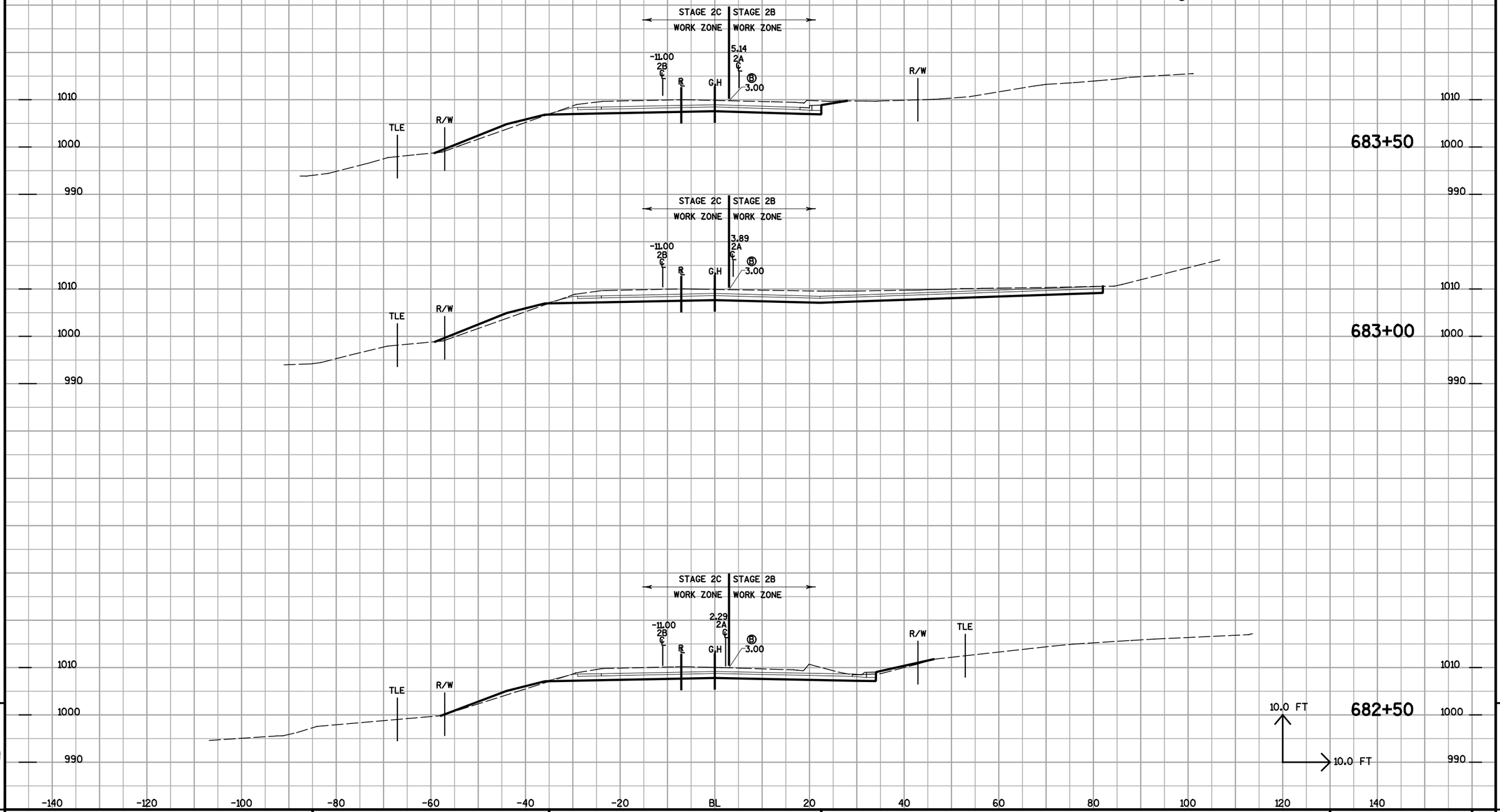
9 9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STAGE CONSTRUCTION CROSS SECTIONS: STH 167 - WEST	SHEET NO: 480	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090207_xs_167_stg-constr.dgn PLOT DATE : 12/4/2014 PLOT BY : JimO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

* TO BE CONSTRUCTED DURING STAGE 2A TO STAGE 2B TRAFFIC FLIP. SEE "STAGE CONSTRUCTION - STAGE 2A & 2B" SHEETS FOR MORE INFORMATION.

Ⓐ SAWCUT STAGE 2A
Ⓑ SAWCUT STAGE 2B
Ⓒ SAWCUT STAGE 2C



9

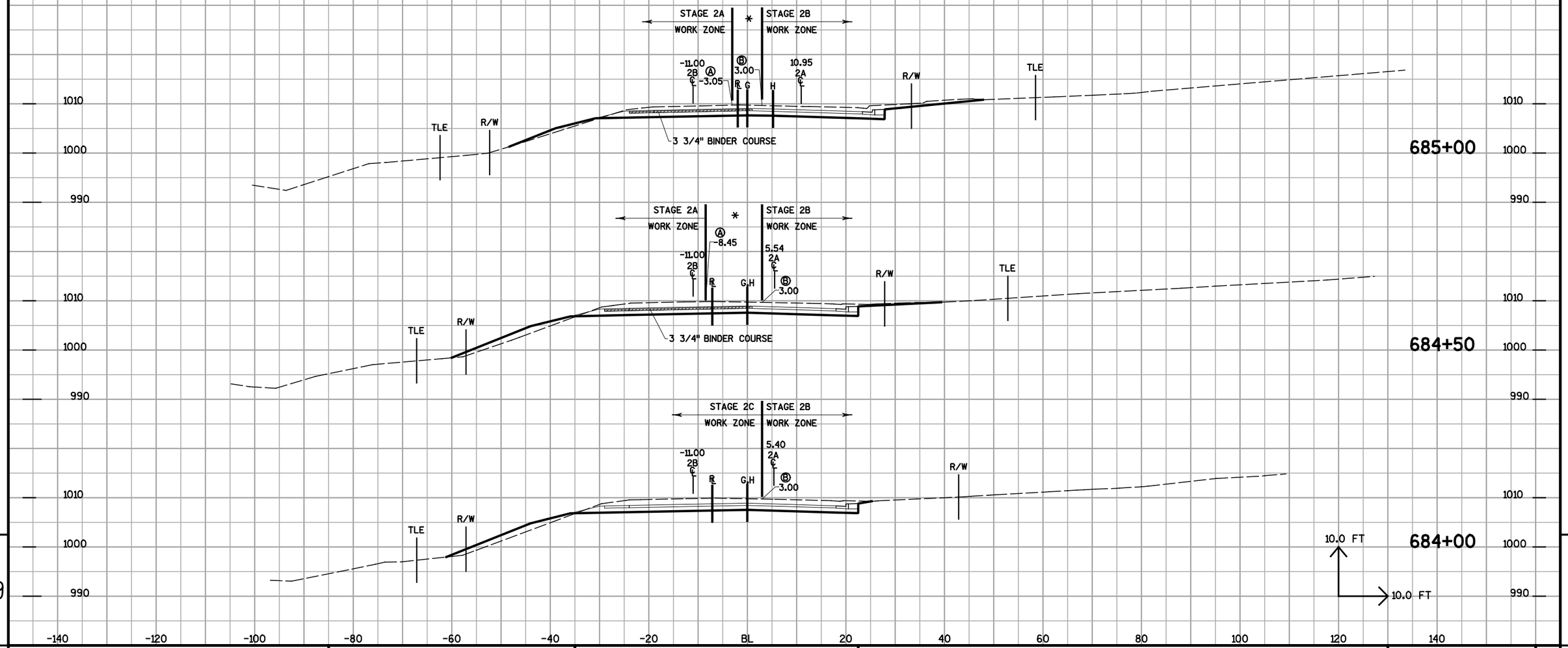
9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STAGE CONSTRUCTION CROSS SECTIONS: STH 167 - WEST	SHEET NO: 481	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090207_xs_167_stg-constr.dgn PLOT DATE : 12/4/2014 PLOT BY : JIm0 PLOT NAME : PLOT SCALE : 2.0000 sf / in.

* TO BE CONSTRUCTED DURING STAGE 2A TO STAGE 2B TRAFFIC FLIP. SEE "STAGE CONSTRUCTION - STAGE 2A & 2B" SHEETS FOR MORE INFORMATION.

Ⓐ SAWCUT STAGE 2A
Ⓑ SAWCUT STAGE 2B
Ⓒ SAWCUT STAGE 2C

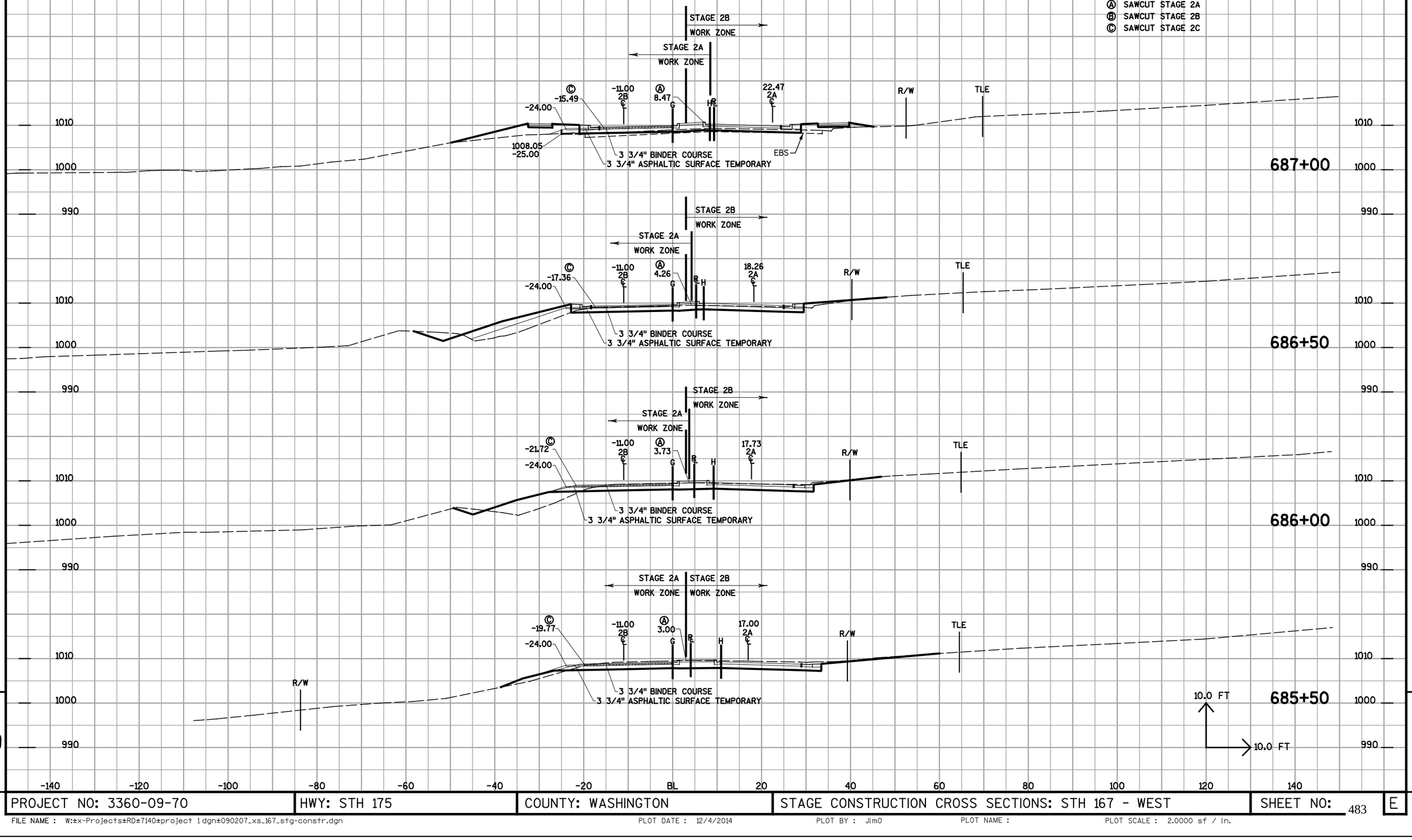


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STAGE CONSTRUCTION CROSS SECTIONS: STH 167 - WEST	SHEET NO: 482	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090207_xs_167_stg-constr.dgn PLOT DATE : 12/4/2014 PLOT BY : JimO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

* TO BE CONSTRUCTED DURING STAGE 2A TO STAGE 2B TRAFFIC FLIP. SEE "STAGE CONSTRUCTION - STAGE 2A & 2B" SHEETS FOR MORE INFORMATION.

Ⓐ SAWCUT STAGE 2A
Ⓑ SAWCUT STAGE 2B
Ⓒ SAWCUT STAGE 2C

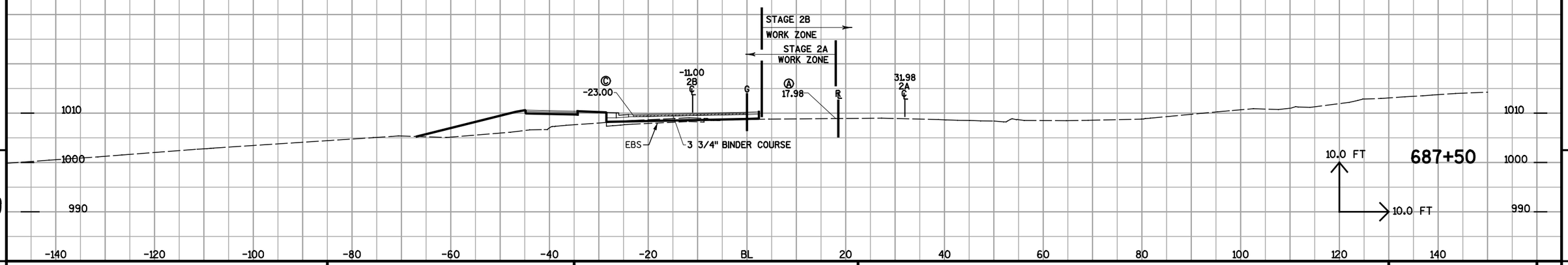


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STAGE CONSTRUCTION CROSS SECTIONS: STH 167 - WEST	SHEET NO: 483	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090207_xs_167_stg-constr.dgn PLOT DATE : 12/4/2014 PLOT BY : JimO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

* TO BE CONSTRUCTED DURING STAGE 2A TO STAGE 2B TRAFFIC FLIP. SEE "STAGE CONSTRUCTION - STAGE 2A & 2B" SHEETS FOR MORE INFORMATION.

Ⓐ SAWCUT STAGE 2A
Ⓑ SAWCUT STAGE 2B
Ⓒ SAWCUT STAGE 2C



9

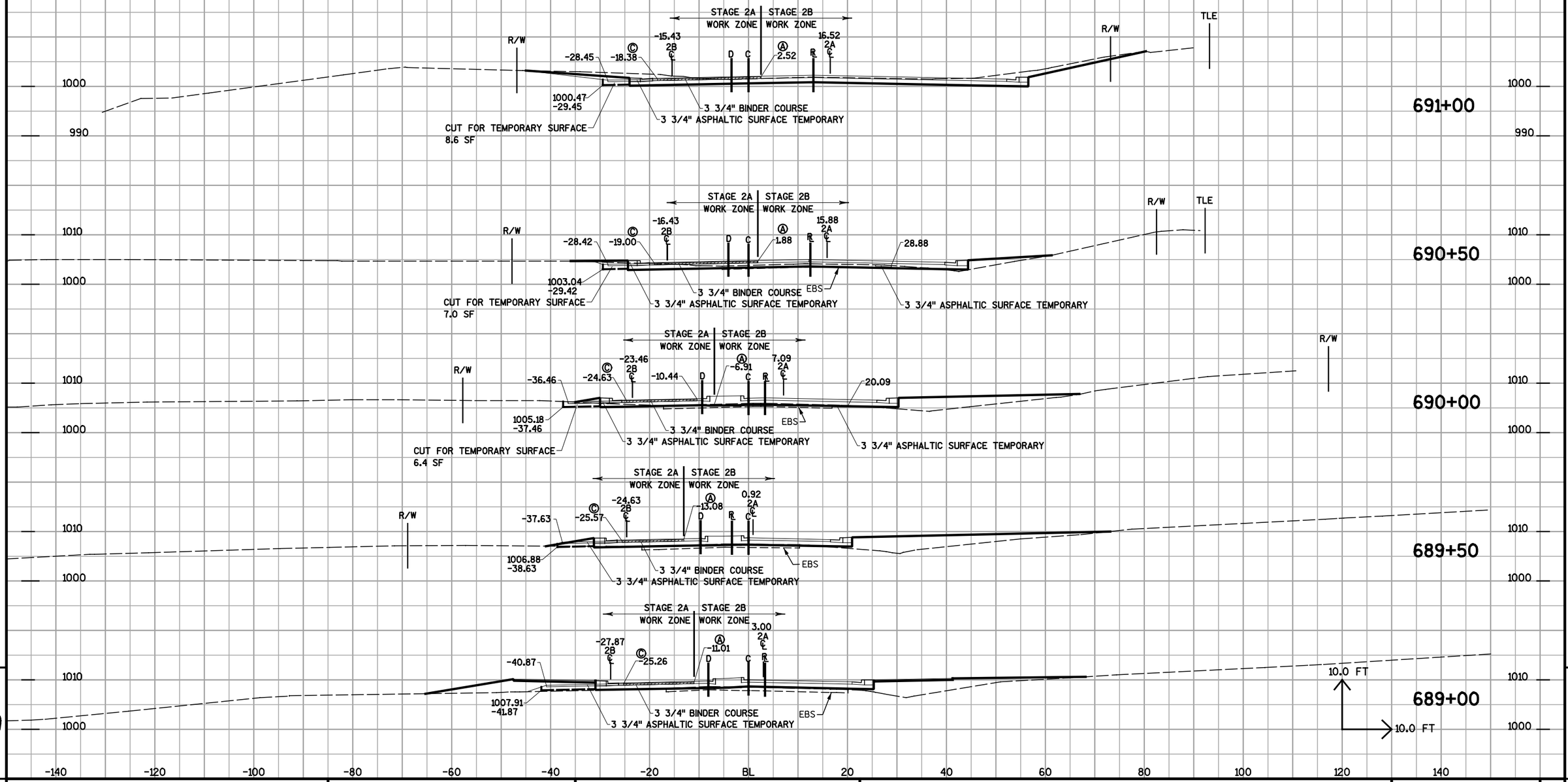
9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STAGE CONSTRUCTION CROSS SECTIONS: STH 167 - WEST	SHEET NO: 484	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090207_xs_167_stg-constr.dgn PLOT DATE : 12/4/2014 PLOT BY : Jim0 PLOT NAME : PLOT SCALE : 2.0000 sf / in.

* TO BE CONSTRUCTED DURING STAGE 2A TO STAGE 2B TRAFFIC FLIP. SEE "STAGE CONSTRUCTION - STAGE 2A & 2B" SHEETS FOR MORE INFORMATION.

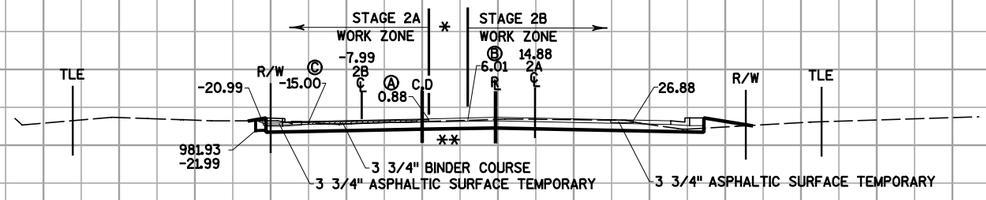
Ⓐ SAWCUT STAGE 2A
Ⓑ SAWCUT STAGE 2B
Ⓒ SAWCUT STAGE 2C



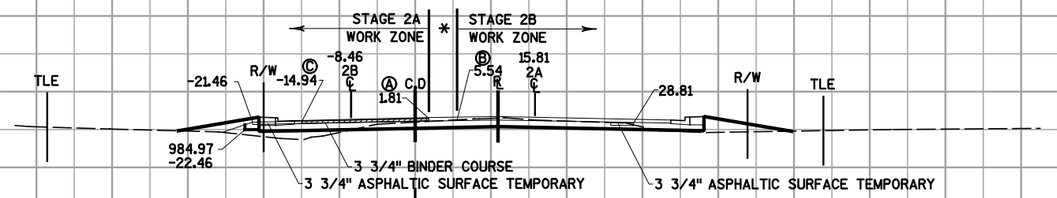
PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STAGE CONSTRUCTION CROSS SECTIONS: STH 167 - EAST	SHEET NO: 485	E

* TO BE CONSTRUCTED DURING STAGE 2A TO STAGE 2B TRAFFIC FLIP. SEE "STAGE CONSTRUCTION - STAGE 2A & 2B" SHEETS FOR MORE INFORMATION.

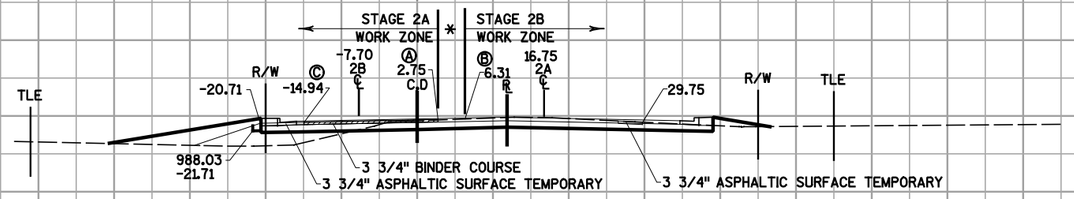
Ⓐ SAWCUT STAGE 2A
Ⓑ SAWCUT STAGE 2B
Ⓒ SAWCUT STAGE 2C



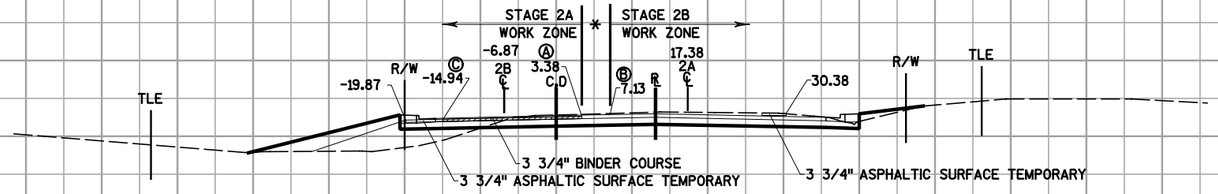
694+00



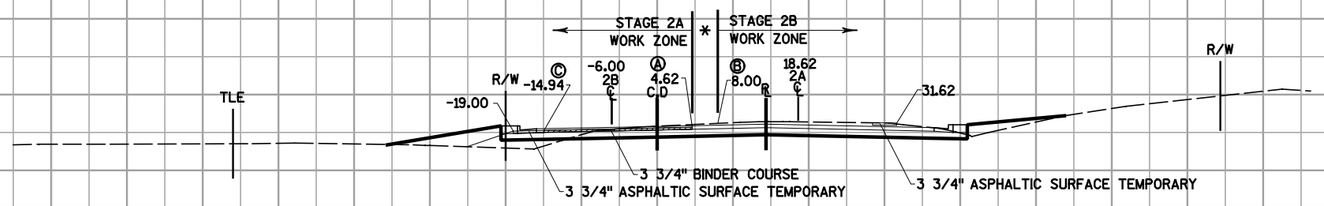
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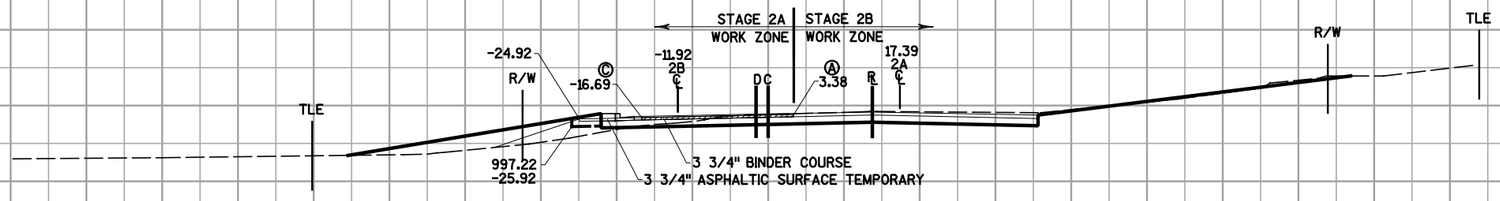
693+00



692+50



692+00



691+50

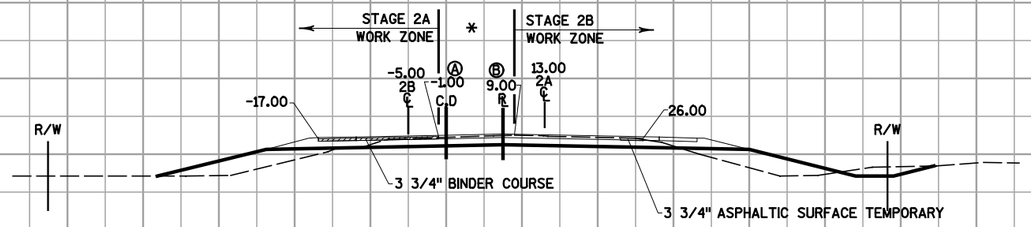
10.0 FT
10.0 FT

980 990 1000

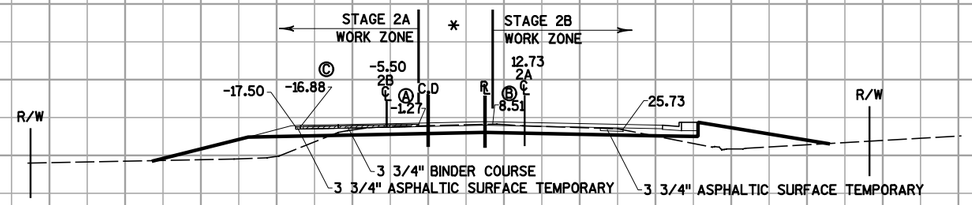
-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STAGE CONSTRUCTION CROSS SECTIONS: STH 167 - EAST	SHEET NO: 486	E

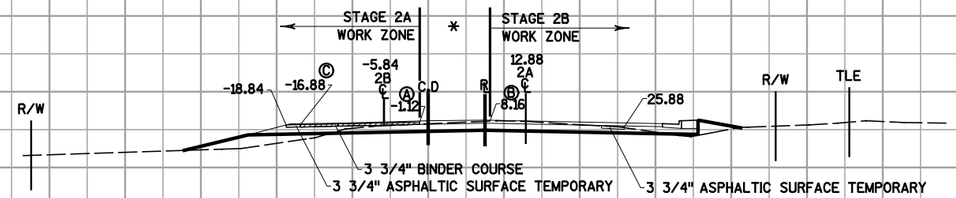
FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090208_xs_167_stg-constr.dgn PLOT DATE : 12/4/2014 PLOT BY : JimO PLOT NAME : PLOT SCALE : 2.0000 sf / in.



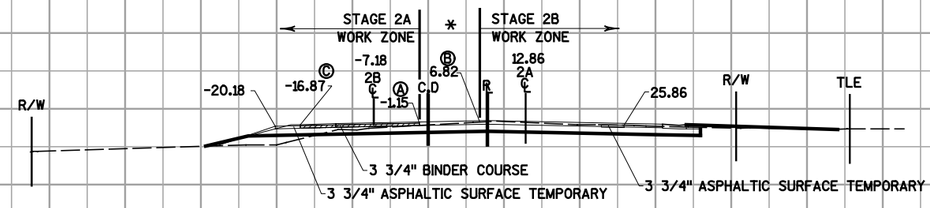
696+50



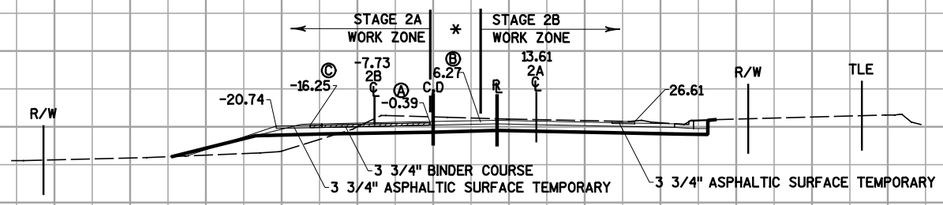
696+00



695+50



695+00



694+50

* TO BE CONSTRUCTED DURING STAGE 2A TO STAGE 2B TRAFFIC FLIP. SEE "STAGE CONSTRUCTION - STAGE 2A & 2B" SHEETS FOR MORE INFORMATION.

Ⓐ SAWCUT STAGE 2A
Ⓑ SAWCUT STAGE 2B
Ⓒ SAWCUT STAGE 2C

970 960 970 960 970 960 970 980 970

10.0 FT
10.0 FT

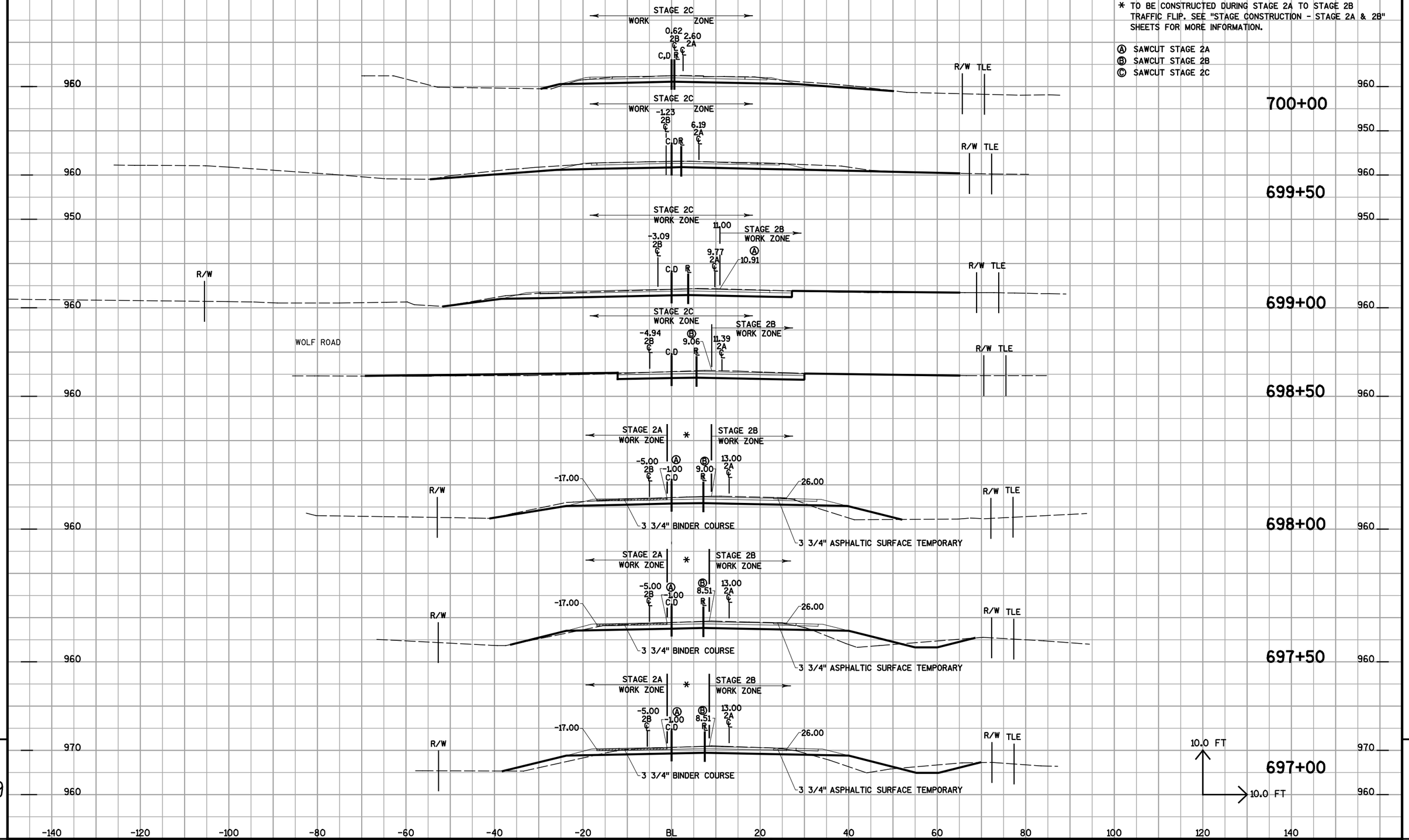
-140 -120 -100 -80 -60 -40 -20 BL 20 40 60 80 100 120 140

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STAGE CONSTRUCTION CROSS SECTIONS: STH 167 - EAST	SHEET NO: 487	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090208_xs_167_stg-constr.dgn PLOT DATE : 12/4/2014 PLOT BY : JimO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

* TO BE CONSTRUCTED DURING STAGE 2A TO STAGE 2B TRAFFIC FLIP. SEE "STAGE CONSTRUCTION - STAGE 2A & 2B" SHEETS FOR MORE INFORMATION.

Ⓐ SAWCUT STAGE 2A
Ⓑ SAWCUT STAGE 2B
Ⓒ SAWCUT STAGE 2C

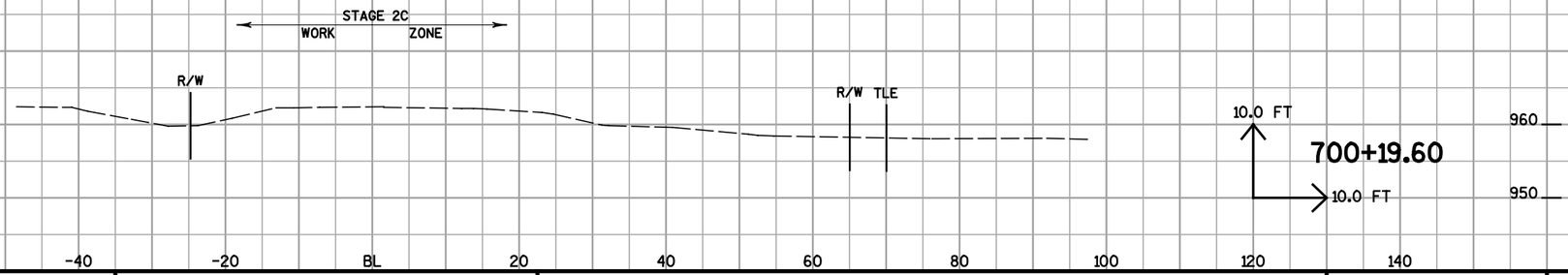


PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STAGE CONSTRUCTION CROSS SECTIONS: STH 167 - EAST	SHEET NO: 488	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090208_xs_167_stg-constr.dgn PLOT DATE : 12/4/2014 PLOT BY : JIm0 PLOT NAME : PLOT SCALE : 2.0000 sf / in.

STATION 701+50.00
END CONSTRUCTION
SAWCUT REQ'D
MATCH EXISTING

STATION 700+19.60 TO STATION 701+50.00
MILL AND REPLACE ASPHALT SECTION



9

9

PROJECT NO: 3360-09-70	HWY: STH 175	COUNTY: WASHINGTON	STAGE CONSTRUCTION CROSS SECTIONS: STH 167 - EAST	SHEET NO: 489	E

FILE NAME : W:±x-Projects±RD±7140±project 1 dgn±090208_xs_167_stg-constr.dgn PLOT DATE : 12/4/2014 PLOT BY : JimO PLOT NAME : PLOT SCALE : 2.0000 sf / in.

Wisconsin Department of Transportation

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