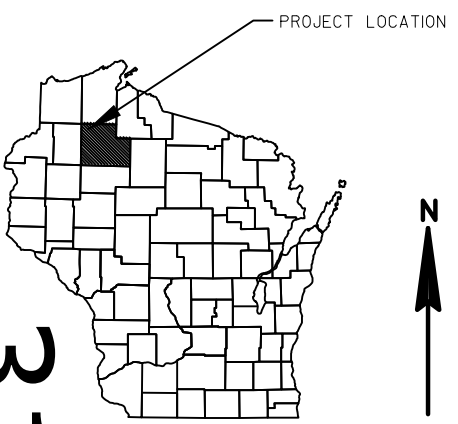


SUP
PROJECT ID: 1560-02-70
WITH: 1560-02-75
COUNTY: SAWYER

NOVEMBER 2018
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 Plan
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 = 210



DESIGN DESIGNATION	1560-02-01
A.A.D.T.	2017 = 4200
A.A.D.T.	2037 = 4650
D.H.V.	= 6.0%
D.D.	= 59/41
T.	= 7.0%
DESIGN SPEED	= 45/55 MPH
ESALS	= 640,000

CONVENTIONAL SYMBOLS

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

PROFILE	
GRADE LINE	----
ORIGINAL GROUND	----
MARSH OR ROCK PROFILE (To be noted as such)	----
SPECIAL DITCH	----
GRADE ELEVATION	95.36
CULVERT (Profile View)	----
UTILITIES	
ELECTRIC	----
FIBER OPTIC	----
GAS	----
SANITARY SEWER	----
STORM SEWER	----
TELEPHONE	----
WATER	----
UTILITY PEDESTAL	----
POWER POLE	----
TELEPHONE POLE	----

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT

HAYWARD - DRUMMOND
STH 27 TO LARSEN ROAD
USH 63
SAWYER

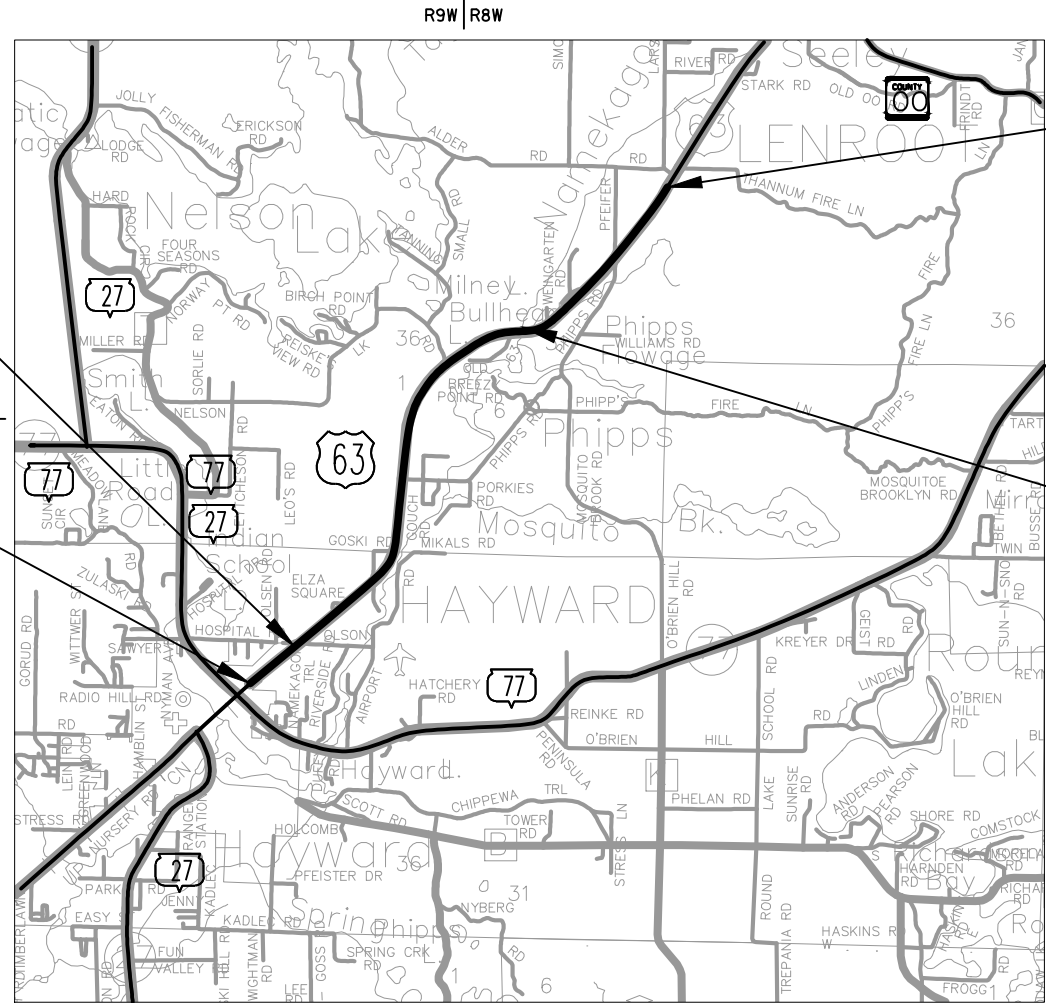
STATE PROJECT NUMBER
1560-02-70

HAYWARD - DRUMMOND
HOSPITAL ROAD INTERSECTION
USH 63
SAWYER

STATE PROJECT NUMBER
1560-02-75

PROJECT 1560-02-75
HOSP. RD (W)
1005+32.70 - 1009+72
HOSP. RD (E)
2004+68.38 - 2008+94
BEGIN PROJECT 1560-02-70
STA. 314+53.82
Y=620736.4303
X=467495.6392

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1560-02-70	WISC 2018455	1
1560-02-75	WISC 2018456	1



END PROJECT 1560-02-70
STA. 687+65.44
Y=642810.6256
X=467495.6392

STRUCTURE B-57-0019
STA 574+73.13 - STA 576+50.65
EXCEPTION TO NET CENTERLINE LENGTH

LAYOUT
SCALE 0 2 MI
TOTAL NET LENGTH OF CENTERLINE = 7.033

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, SAWYER COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor COOPER ENG. & COLEMAN ENG.
Designer TRAVIS JENSEN
Project Manager MATT DICKENSON
Regional Examiner JENNIFER OLENBURG
Regional Supervisor WILLIAM KURTZ

APPROVED FOR THE DEPARTMENT
05/29/2018
DATE: Matthew J. Dickenson (Signature)

E

LIST OF STANDARD ABBREVIATIONS

ABUT.	ABUTMENT
AGG.	AGGREGATE
AH.	AHEAD
APPROX.	APPROXIMATE
A.E.W.	APRON ENDWALL
ASPH.	ASPHALTIC
A.D.T.	AVERAGE DAILY TRAFFIC
AZ.	AZIMUTH
BK.	BACK
BEG.	BEGIN
B.M.	BENCH MARK
C/L	CENTER LINE
CONC.	CONCRETE
CONST.	CONSTRUCTION
CO.	COUNTY
C.T.H.	COUNTY TRUNK HIGHWAY
X-SEC.	CROSS SECTION
CR.	CRUSHED
CFS	CUBIC FEET/SECOND
C.Y., CU. YD.	CUBIC YARD
CULV.	CULVERT
C.P.	CULVERT PIPE
D.O.T.	DEPARTMENT OF TRANSPORTATION
D.H.V.	DESIGN HOUR VOLUME
DIA.	DIAMETER
D.	DIRECTIONAL DISTRIBUTION
DISCH. OR DIS.	DISCHARGE
EA.	EACH
ELECT.	ELECTRIC
EL. OR ELEV.	ELEVATION
EMB.	EMBANKMENT
E.B.S.	EXCAVATION BELOW SUBGRADE
EXIST.	EXISTING
FERT.	FERTILIZE
F.E.	FIELD ENTRANCE
FIN.	FINISHED
FT.	FOOT
F.L.	FLOW LINE
GA.	GAUGE
HORIZ.	HORIZONTAL
CWT.	HUNDREDWEIGHT
INL.	INLET
LT.	LEFT
L.H.F.	LEFT-HAND FORWARD
LIN.	LINEAR
LIN. FT.	LINEAR FOOT
L.S.	LUMP SUM
MAX.	MAXIMUM
MI.	MILE
MISC.	MISCELLANEOUS
N.E.	NORTH EAST
N.W.	NORTH WEST
PAV'T	PAVEMENT
P.C.	POINT OF CURVATURE
P.I.	POINT OF INTERSECTION
P.T.	POINT OF TANGENCY
P.O.T.	POINT ON TANGENT
LB.	POUND
P.E.	PRIVATE ENTRANCE
PROJ.	PROJECT
R.	RANGE
REQ'D	REQUIRED
RT.	RIGHT
R.H.F.	RIGHT-HAND FORWARD
R/W	RIGHT OF WAY
RD.	ROAD
SHR.	SHRINKAGE
SL.	SLOPE
STD.	STANDARD
S.D.D.	STANDARD DETAIL DRAWINGS
S.T.H.	STATE TRUNK HIGHWAY
STA.	STATION
S.P.P.A.	STRUCTURAL PLATE PIPE ARCH
STRUCT.	STRUCTURE
SURF.	SURFACE
TEL.	TELEPHONE
TN.	TOWN
T.	TRUCKS (PERCENT OF)
UNCL.	UNCLASSIFIED
U.G.	UNDERGROUND
V.	VELOCITY OR DESIGN SPEED
V.C.	VERTICAL CURVE

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

WHEN THE QUANTITY OF BASE AGGREGATE DENSE AND ASPHALTIC PAVEMENT ARE MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND UPON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

ALL RADII ARE MEASURED TO EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN.

CURB HEIGHTS AT THE END OF CURB AND GUTTER SHALL BE TAPERED FROM 0 TO 6 INCHES IN 6 FEET.

CURVE DATA SHOWN ON THE PLAN IS "ARC DEFINITION".

CONTROL POINTS ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM SAWYER COUNTY. BENCHMARK ELEVATIONS ARE REFERENCED TO NAVD 88.

PRIOR TO THE PLACEMENT OF STEEL PLATE BEAM GUARD, THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED UNLESS SHOWN OTHERWISE.

AREA CONTACTS

COUNTY

SAWYER COUNTY HWY COMMISSIONER
GARY GEDART
14688W COUNTY ROAD B
HAYWARD, WI 54843
PHONE: (715) 634-2691

TOWNS

TOWN OF HAYWARD
JEFF HOMUTH
TOWN CHAIR
15460W STH 77 E
HAYWARD, WI 54843
PHONE: (715) 634-4123

TOWN OF LENROOT
GORDON CHRISTIANS
TOWN CHAIR
12153 N WAGNER CIRCLE
HAYWARD, WI 54843
PHONE: (715) 634-3156

CITY OF HAYWARD PUBLIC WORKS
JOHN MCCUE
TOWN CHAIR
P.O. BOX 969
HAYWARD, WI 54843
PHONE: (715) 634-4612

WISDOT

DESIGN CONTACT
TRAVIS JENSEN
WISDOT NWR SUPERIOR
1701 N. 4TH STREET
SUPERIOR WI, 54880
PHONE: (715) 395-3025

WISDNR

DNR LIAISON
SHAWN HASELEU
WDNR - NORTHWEST DISTRICT
HEADQUARTERS
810 WEST MAPLE STREET
SPOONER, WI 54801
PHONE: (715) 635-4228

UTILITIES

WE ENERGIES
LEWIS KNAPP
104 W SOUTH ST
RICE LAKE, WI 54868
(715) 234-9605

CENTURYLINK
BRIAN HUHN
400 W 9TH ST N, STE 5A
LADYSMITH, WI 54848
(715) 532-0023

XCEL ENERGY - TRANSMISSION
CHARLES DIENGER
8710 MONTICELLO LANE
MAPLE GROVE, MN 55369
(651) 955-1089

XCEL ENERGY - DISTRIBUTION
SCOTT FROEMMING
2400 FARM RD
ASHLAND, WI 54855
(715) 682-6927

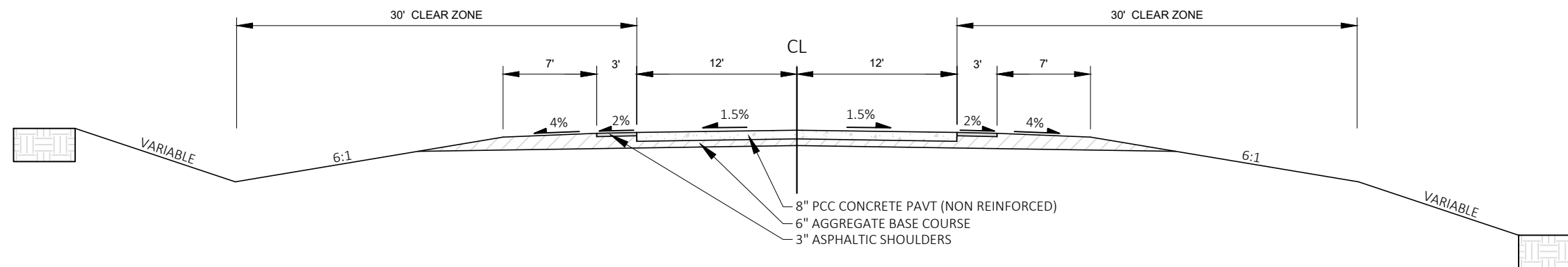
NORVADO
GUY FOLSOM
PO BOX 67
CABLE, WI 54821
(715) 798-7123

CHARTER COMMUNICATIONS
TOM HAASE
2304 S. MAIN ST.
RICE LAKE, WI 54868
(715) 719-0564

WISCONSIN DOT RWIS PROGRAM
MIKE ADAMS
RM 501
P.O. BOX 7986
MADISON, WI 53707-7986
(608) 266-5004
MICHAEL.ADAMS@DOT.WI.GOV

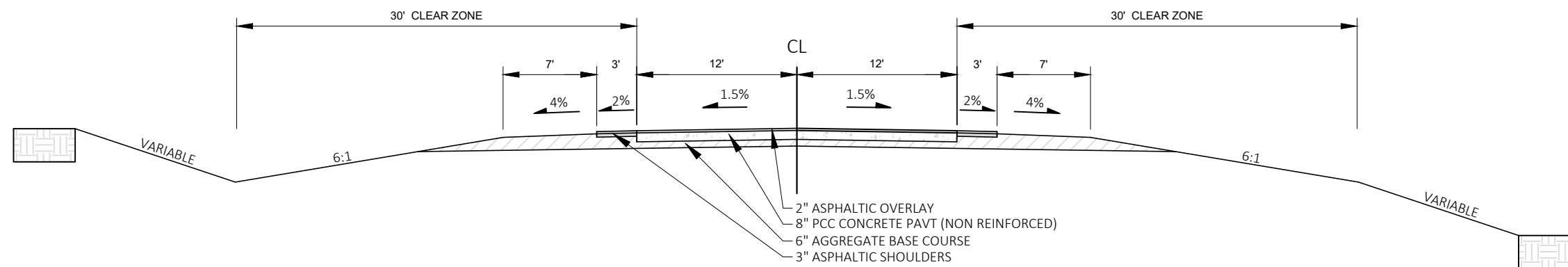


Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com



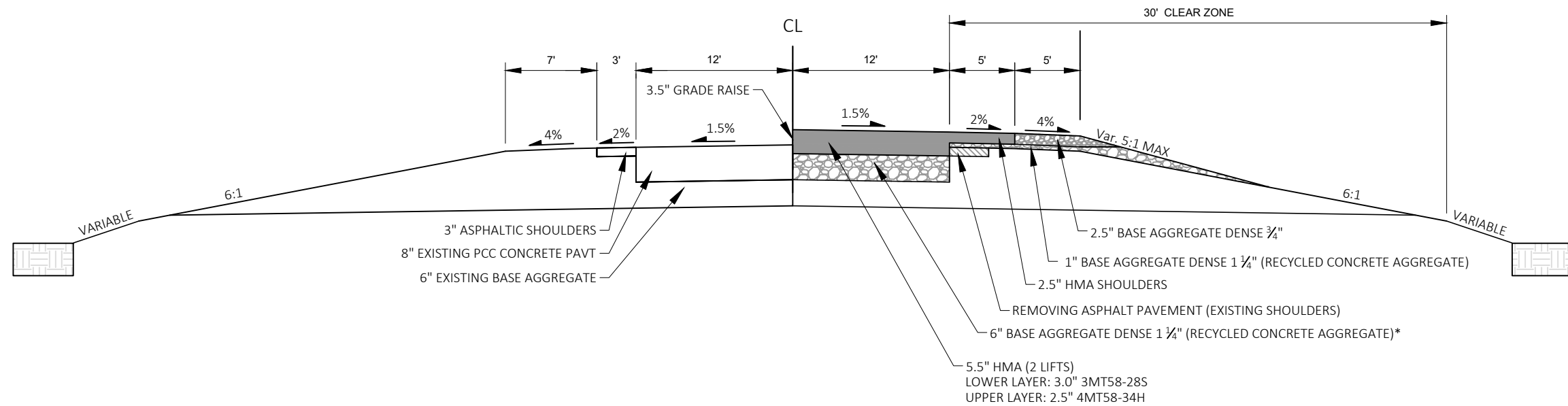
TYPICAL EXISTING SECTION - USH 63

STA: 314+54 - 544+00
STA: 576+50 - 687+65



TYPICAL EXISTING SECTION - USH 63

STA: 544+00 - 576+50

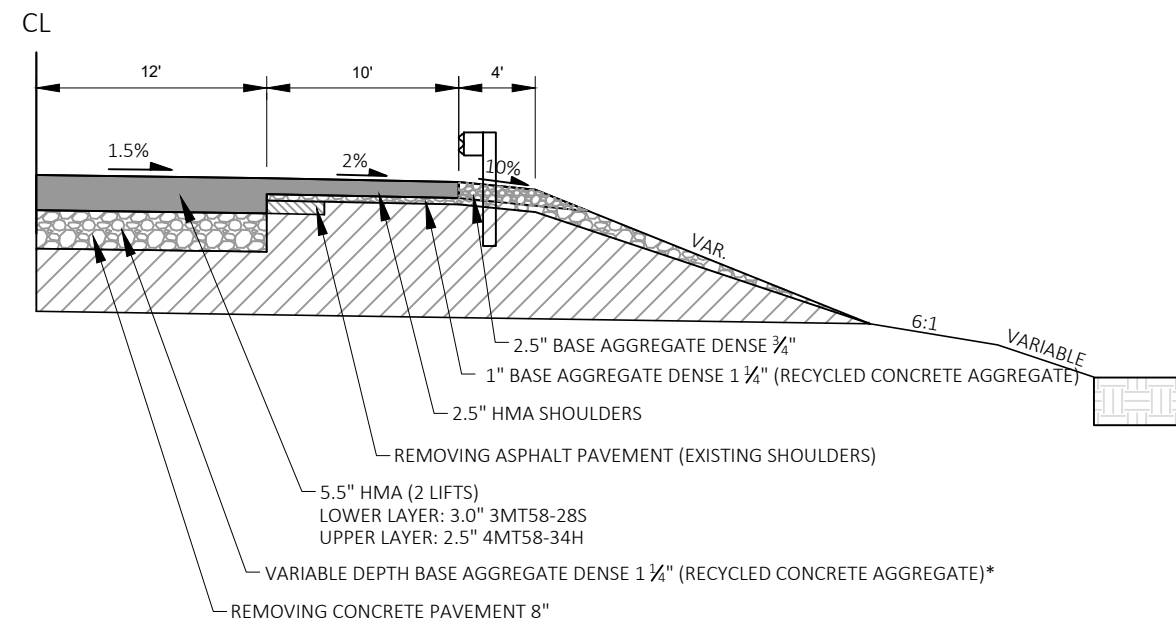


TYPICAL FINISHED HALF SECTION - USH 63

STA: 314+54 - 687+65

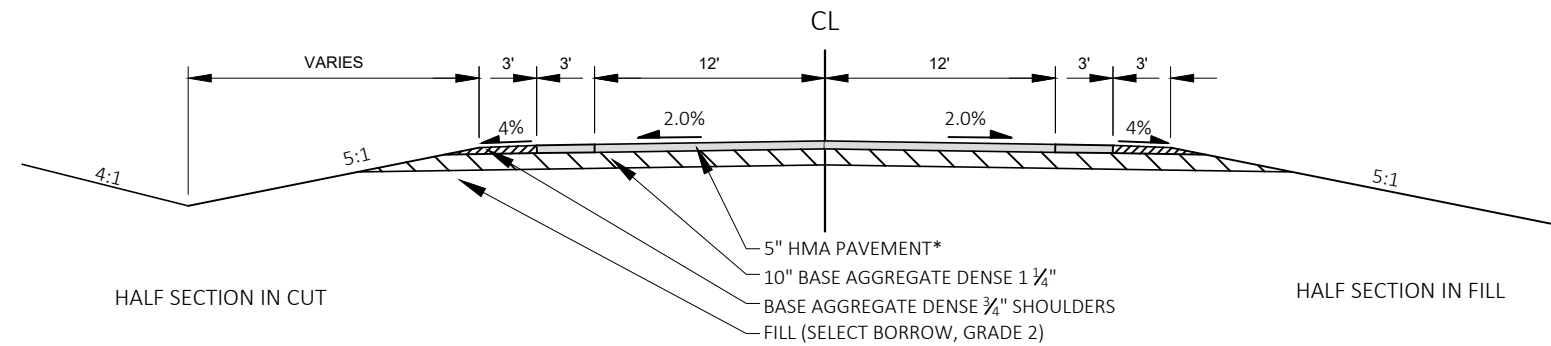
* NOTE: ML BAD DEPTH WILL VARY TO MATCH BEGINNING, END, AND BRIDGE DECK PROFILES AT THE FOLLOWING STATIONS:

STA 314+53.82 (BEGIN PROJECT)
STA 574+73.13 (SOUTH BRIDGE APPROACH)
STA 576+50.65 (NORTH BRIDGE APPROACH)
STA 687+65.44 (END PROJECT)



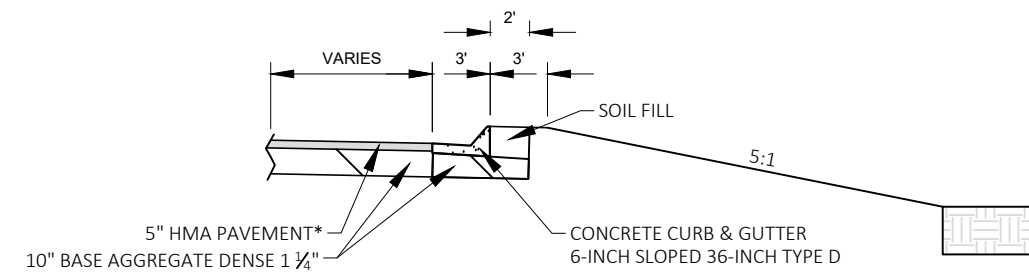
TYPICAL FINISHED HALF SECTION - USH 63

STA: 523+47 - 533+63*
STA: 570+18 - 577+68*



TYPICAL FINISHED SECTION - HOSPITAL ROAD

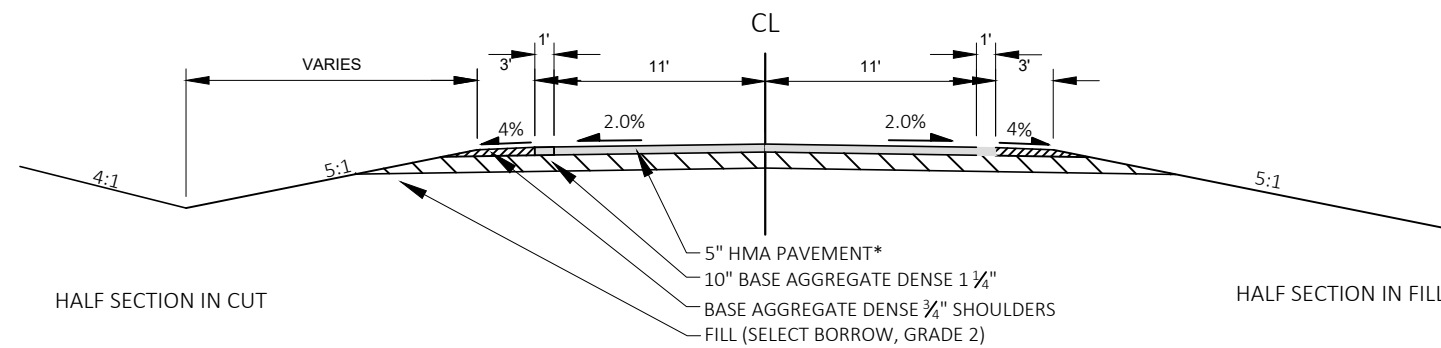
STA: 1005+32.70 - 1009+72.21



TYPICAL FINISHED RADIUS SECTION - HOSPITAL ROAD

CURB AND GUTTER SECTION
NW & NE RADIUS

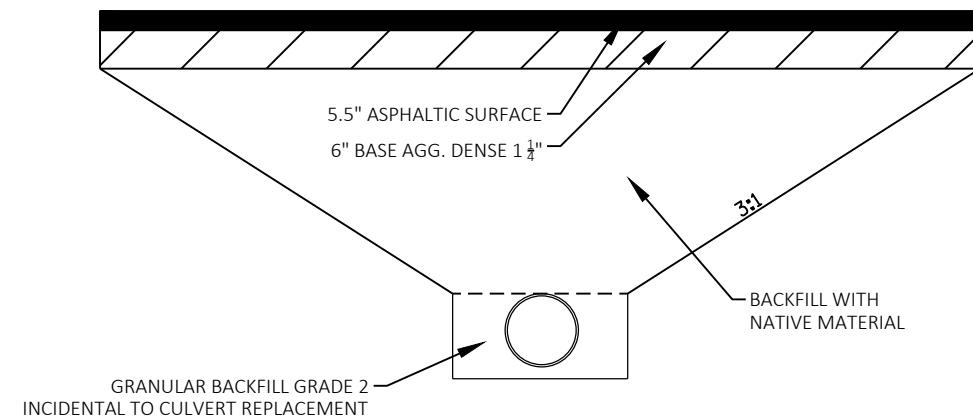
*5" HMA PAVEMENT:
-3" HMA PAVEMENT 3 MT 58-28 S LOWER LAYER
-2" HMA PAVEMENT 4 MT 58-34 H UPPER LAYER



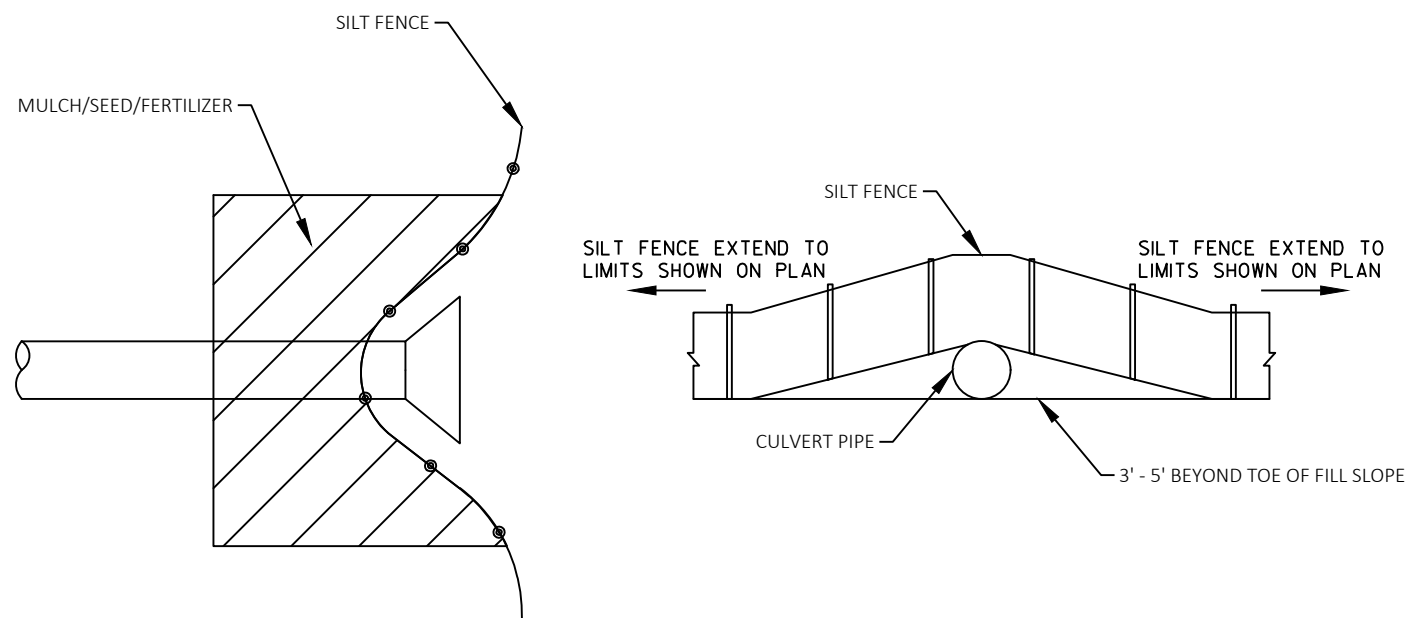
TYPICAL FINISHED SECTION - AIRPORT ROAD

STA: 2004+68.38 - 2008+94.12

*5" HMA PAVEMENT:
-3" HMA PAVEMENT 3 MT 58-28 S LOWER LAYER
-2" HMA PAVEMENT 4 MT 58-34 H UPPER LAYER

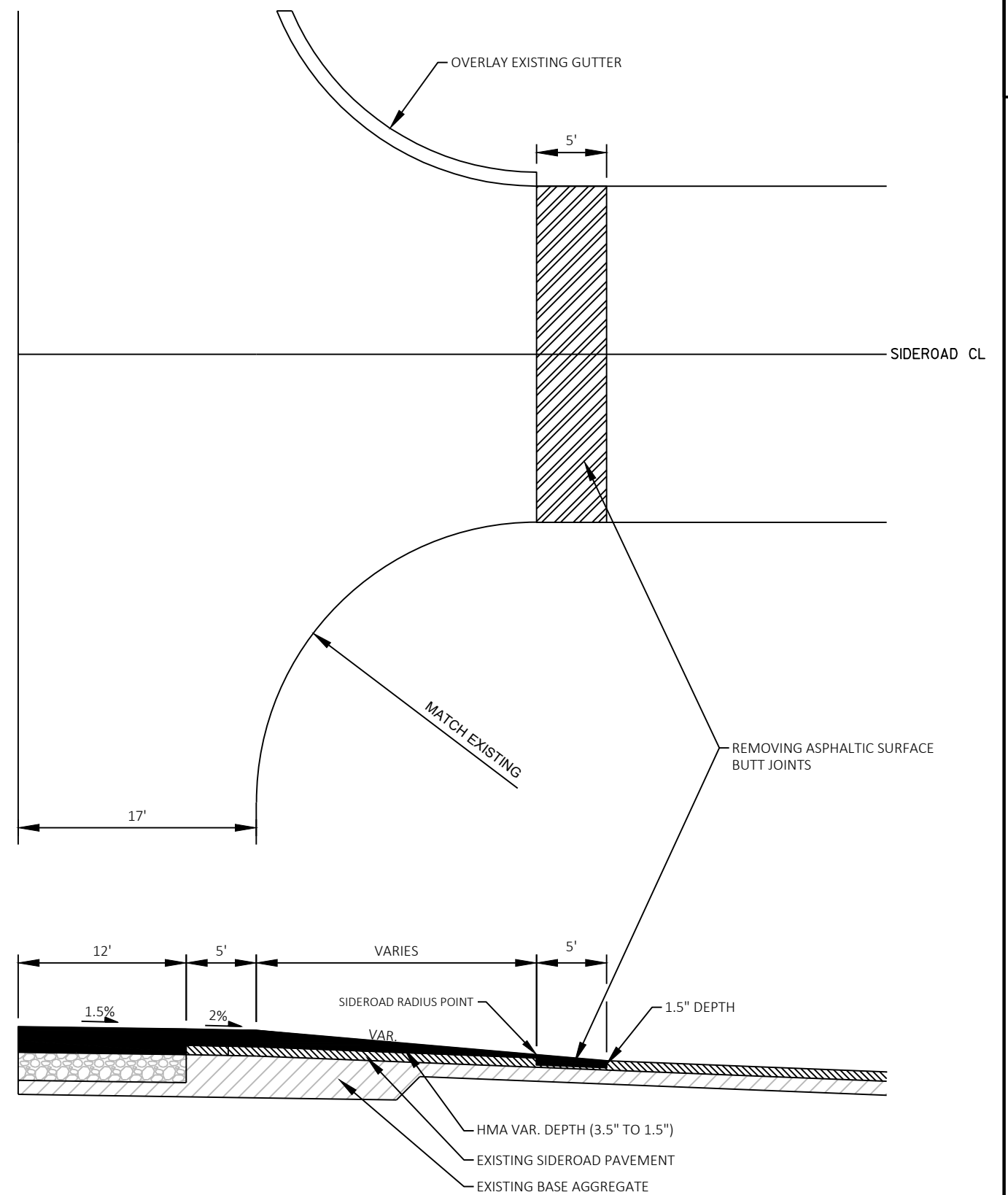


CROSS DRAIN INSTALLATION DETAIL

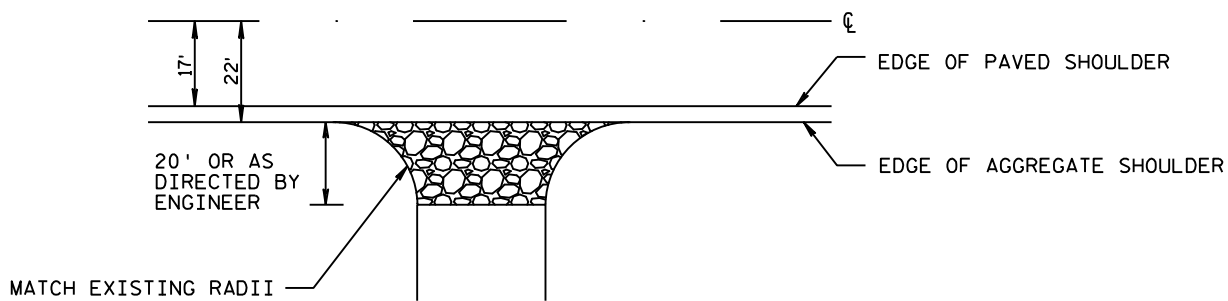


CROSS DRAIN EROSION CONTROL DETAIL

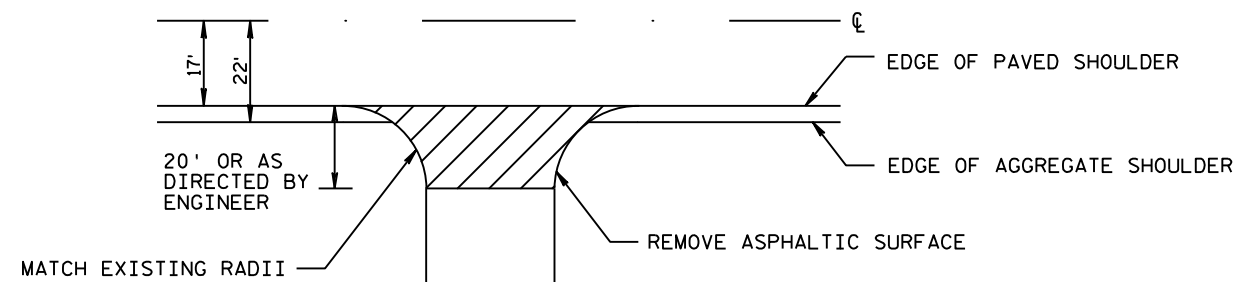
USH 63
CL



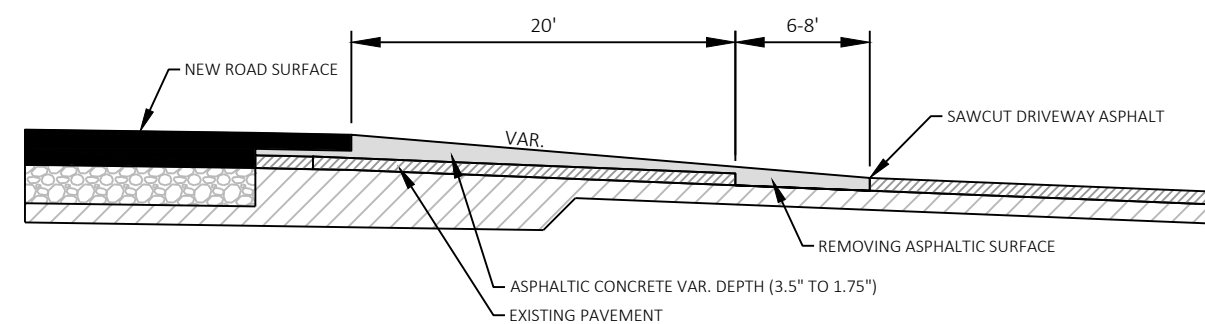
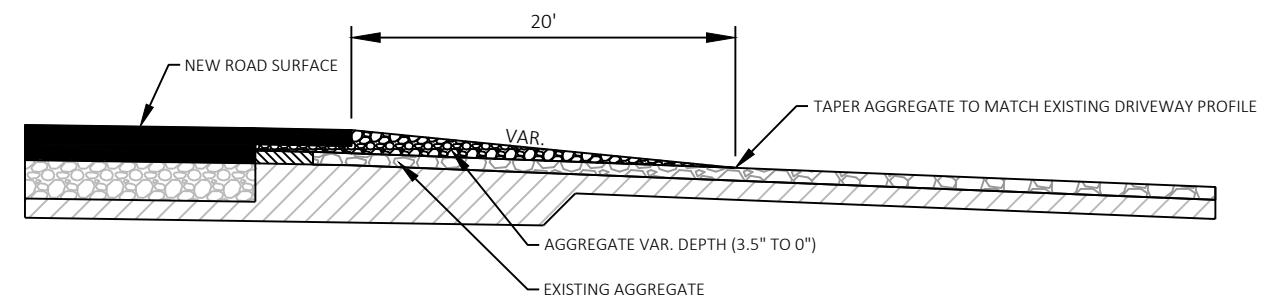
TYPICAL FINISHED HALF SECTION - USH 63 AT SIDEROAD



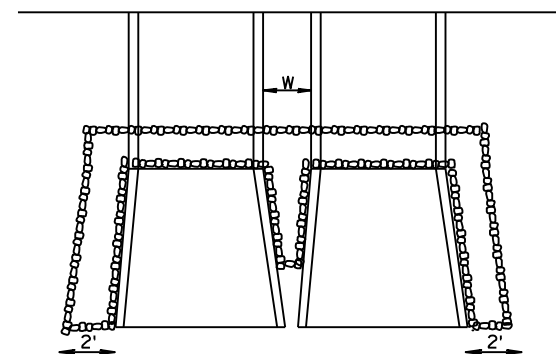
RURAL DRIVEWAY DETAIL - GRAVEL



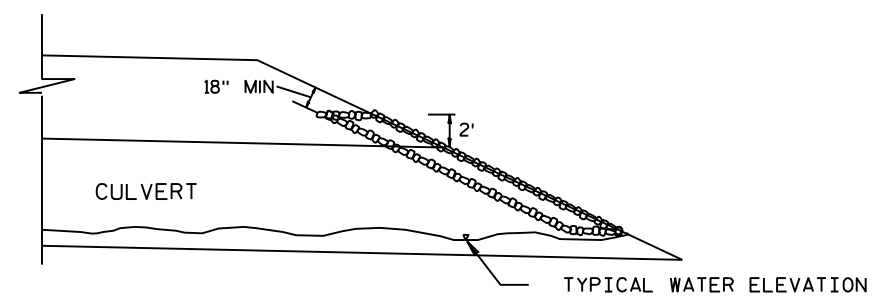
RURAL DRIVEWAY DETAIL - ASPHALT



NOTE: W SHALL BE A MINIMUM OF 30"

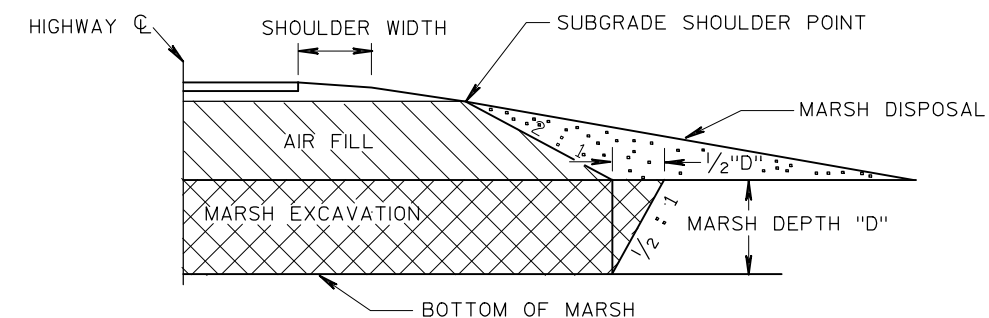


PLAN VIEW

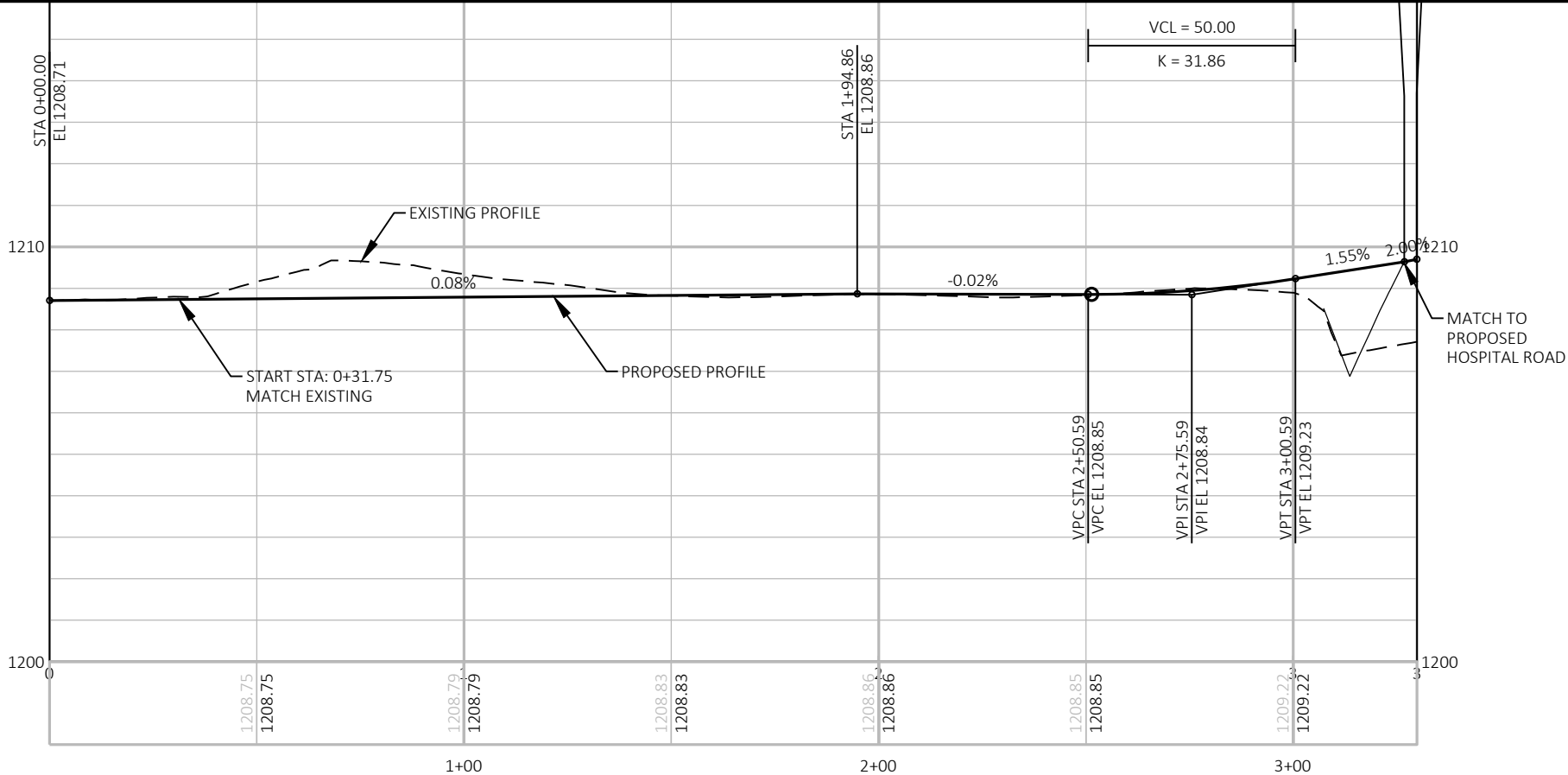
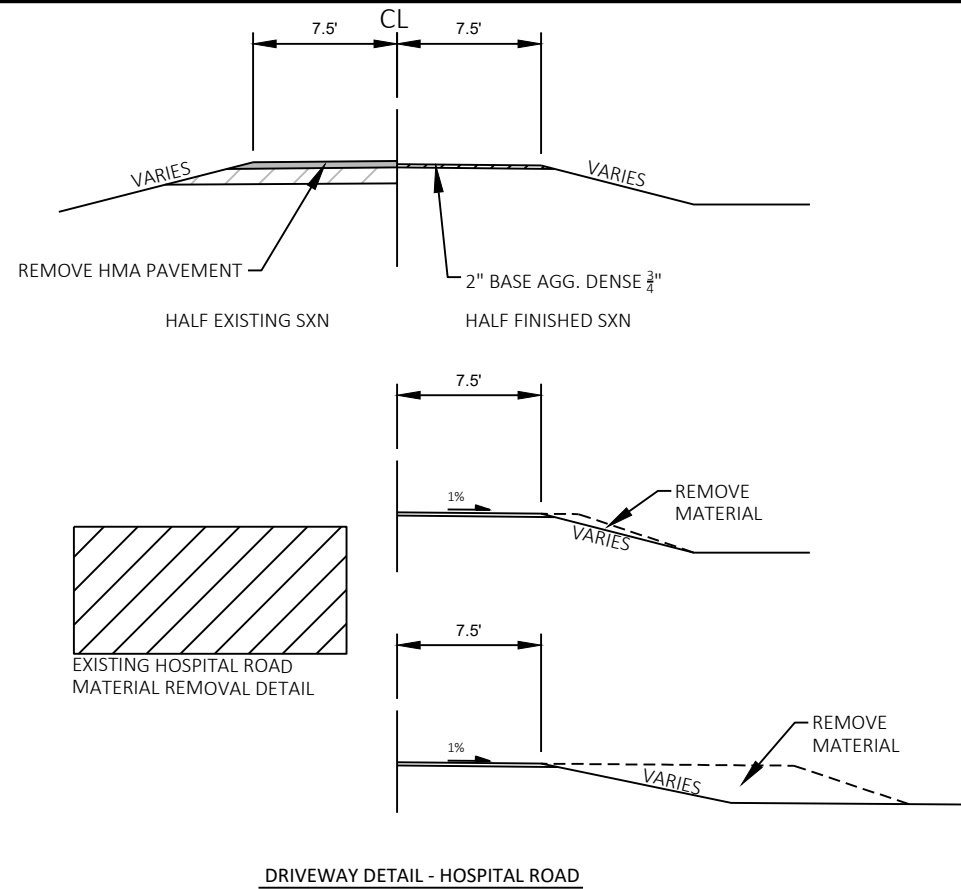
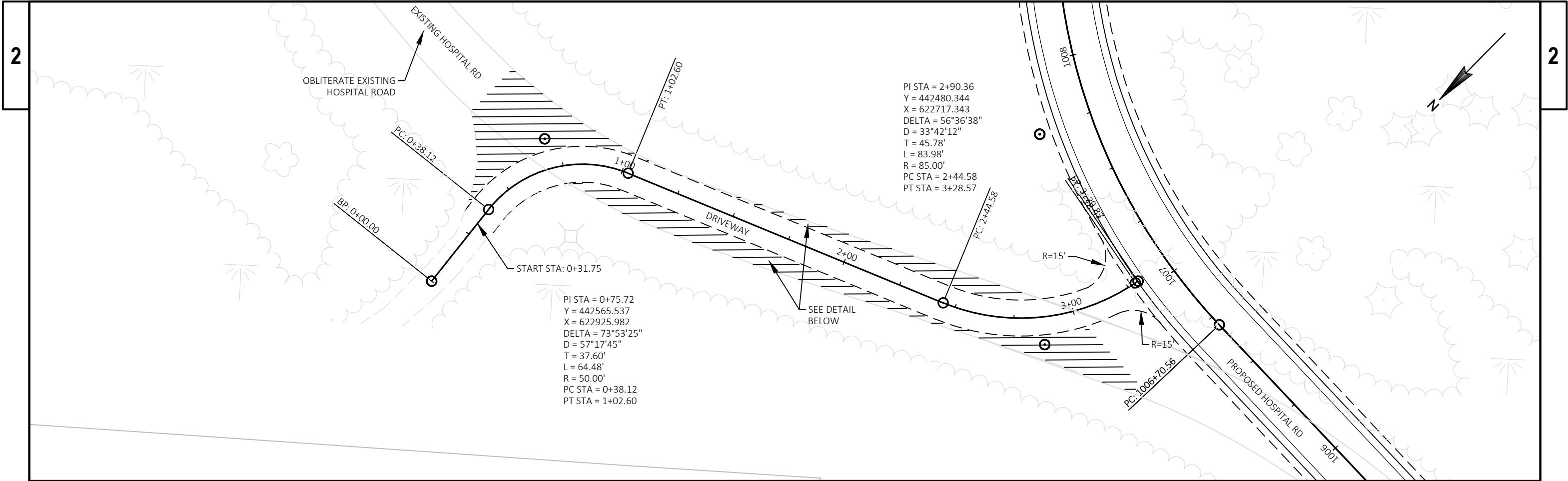


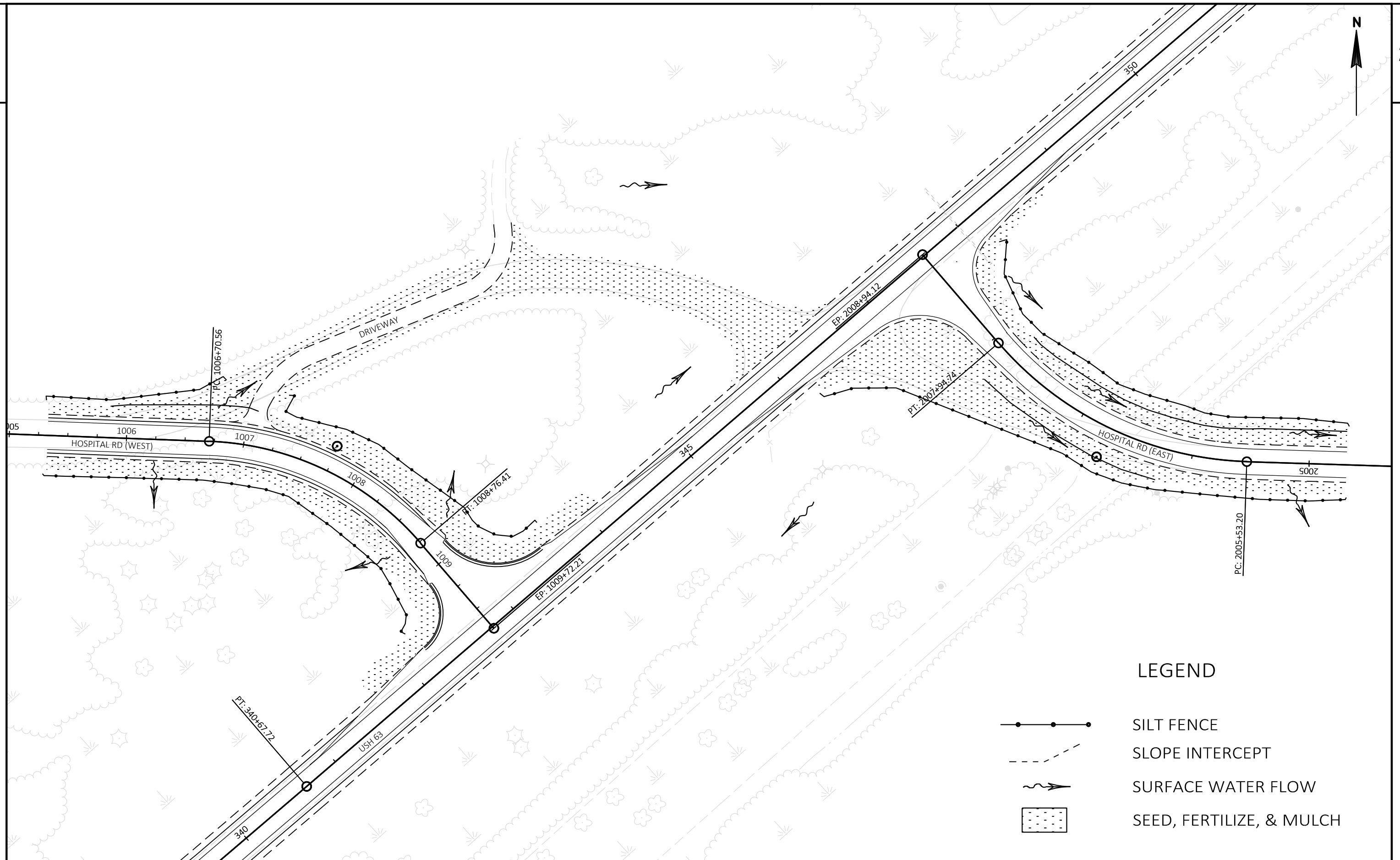
SECTION VIEW

RIP RAP MEDIUM - PLACEMENT DETAIL
STA: 600+85 (INLET & DISCHARGE)

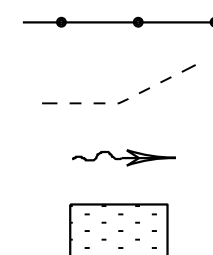


TYPICAL MARSH EXCAVATION

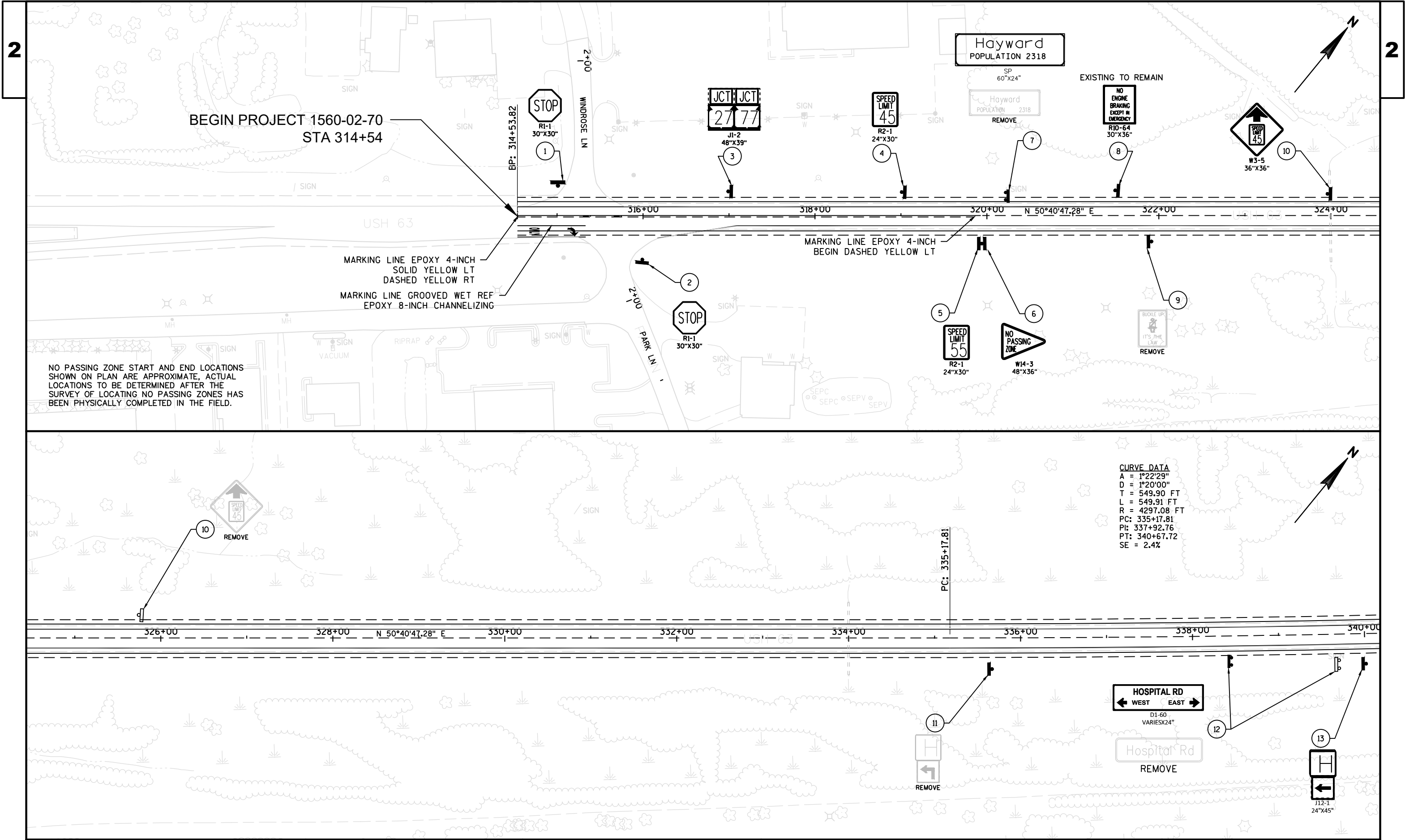


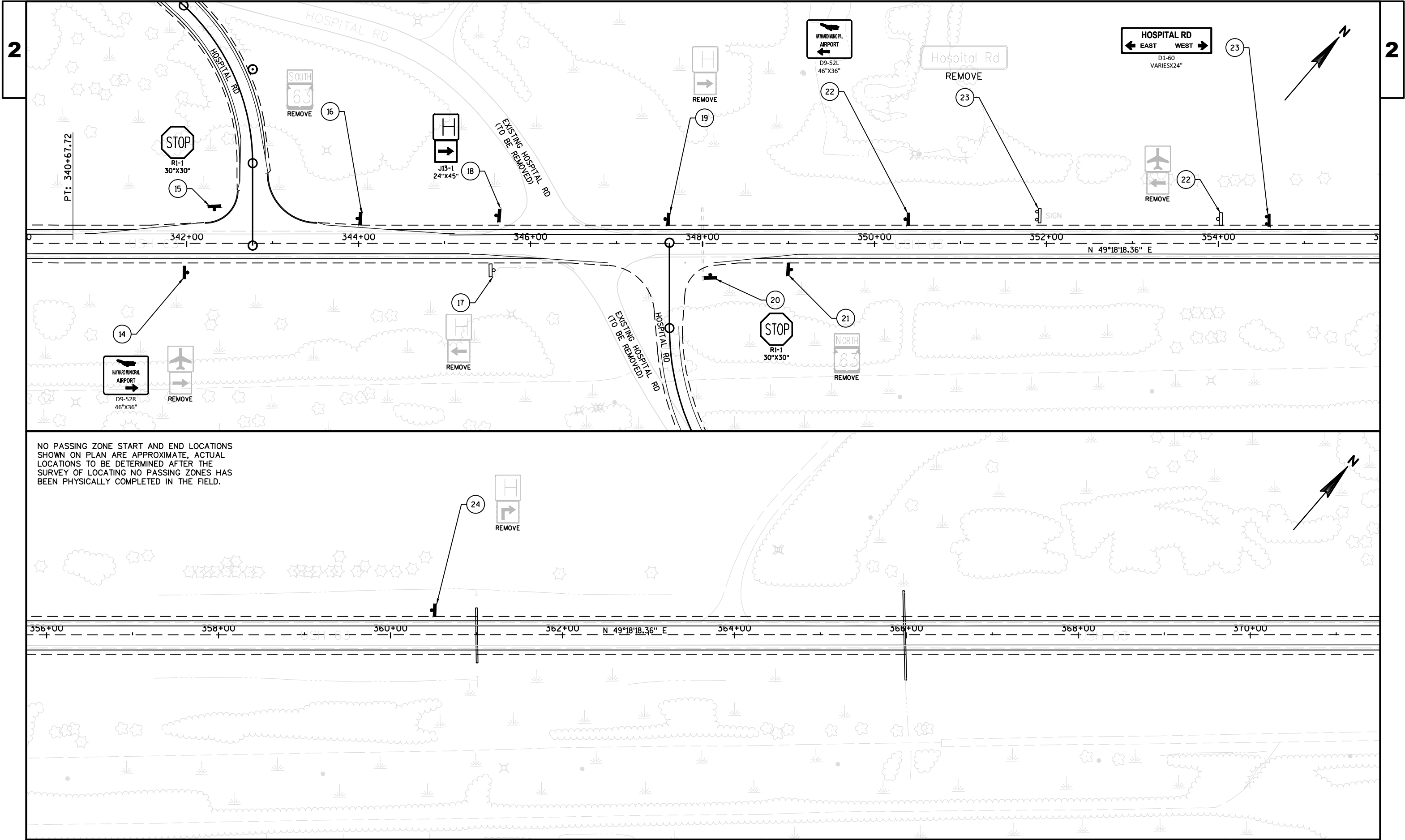


LEGEND

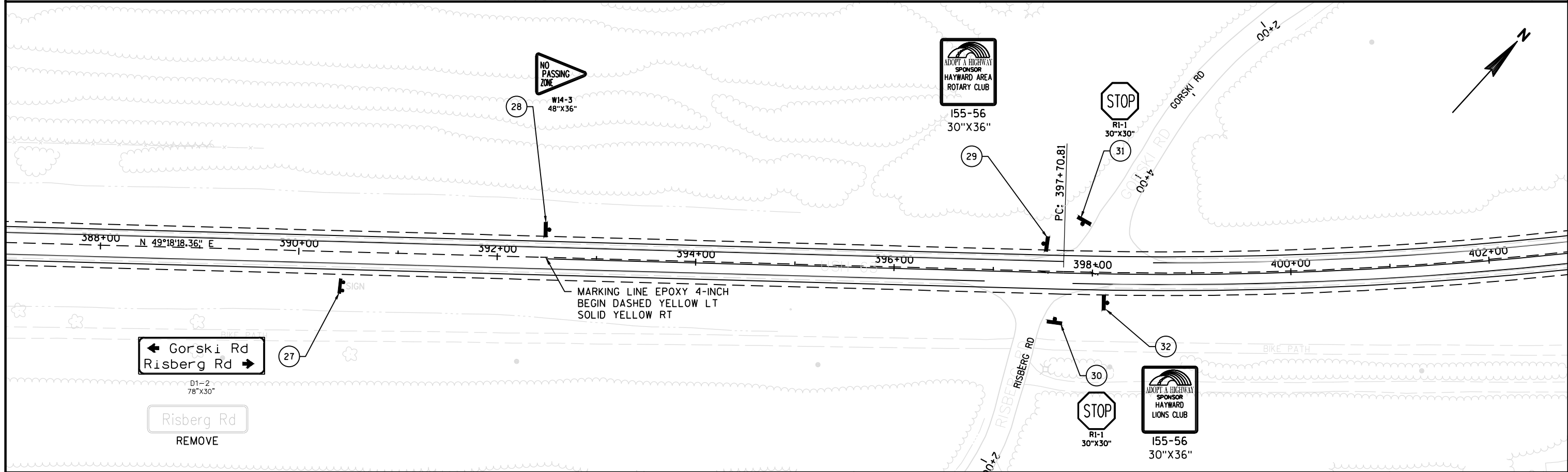
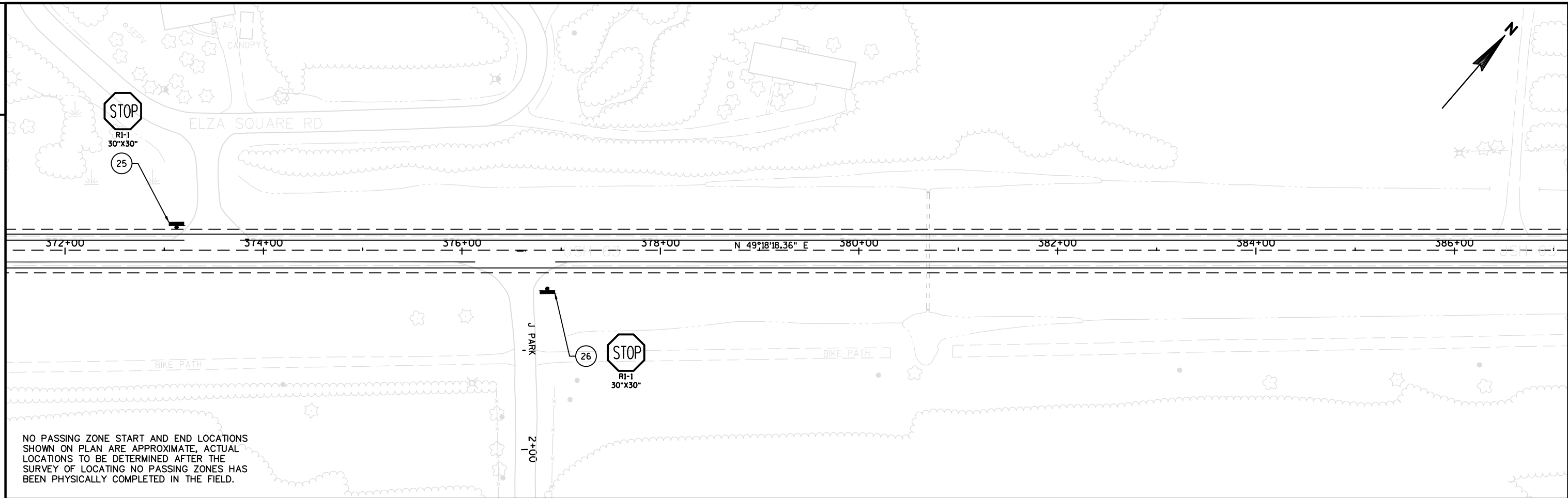


- SILT FENCE
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- SEED, FERTILIZE, & MULCH

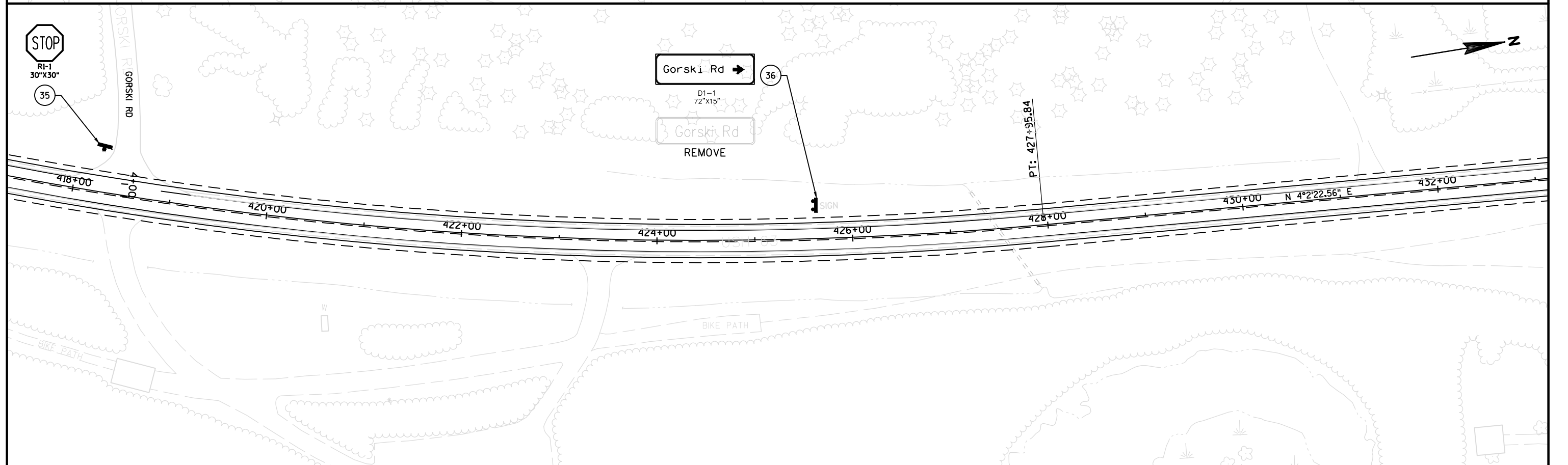
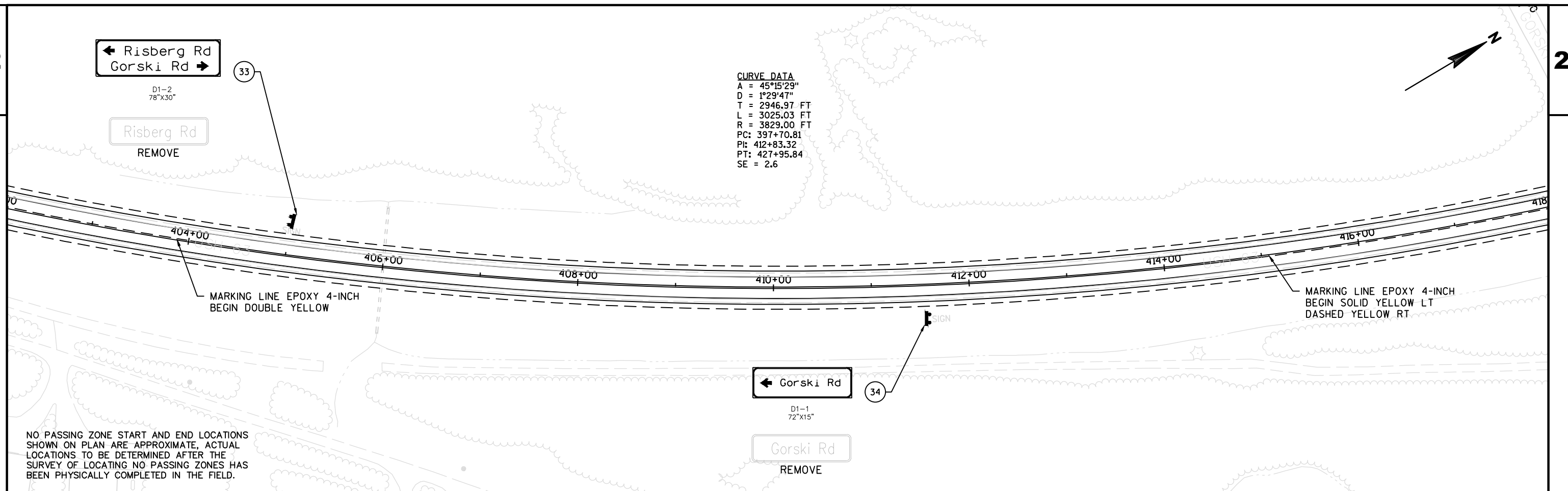


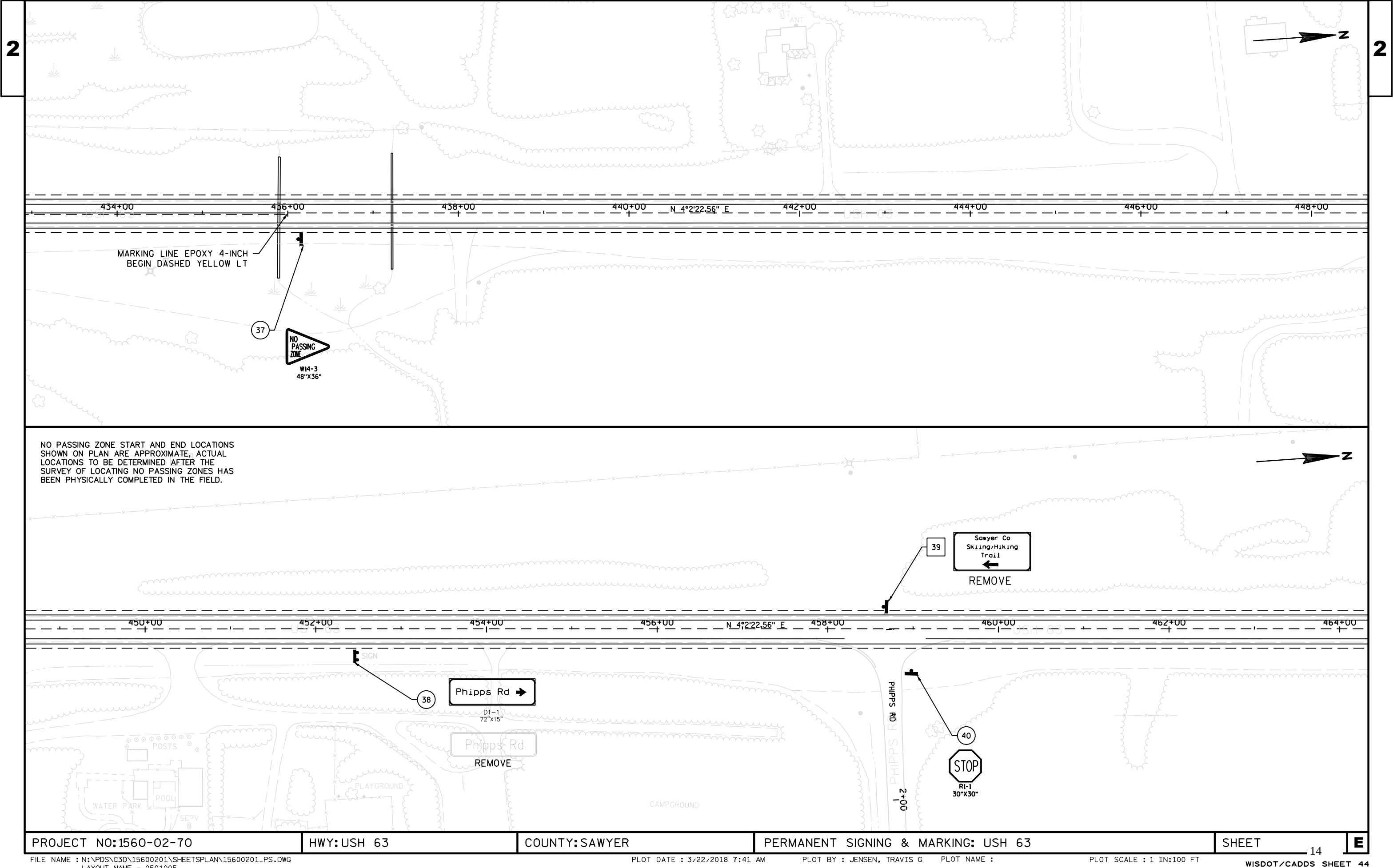


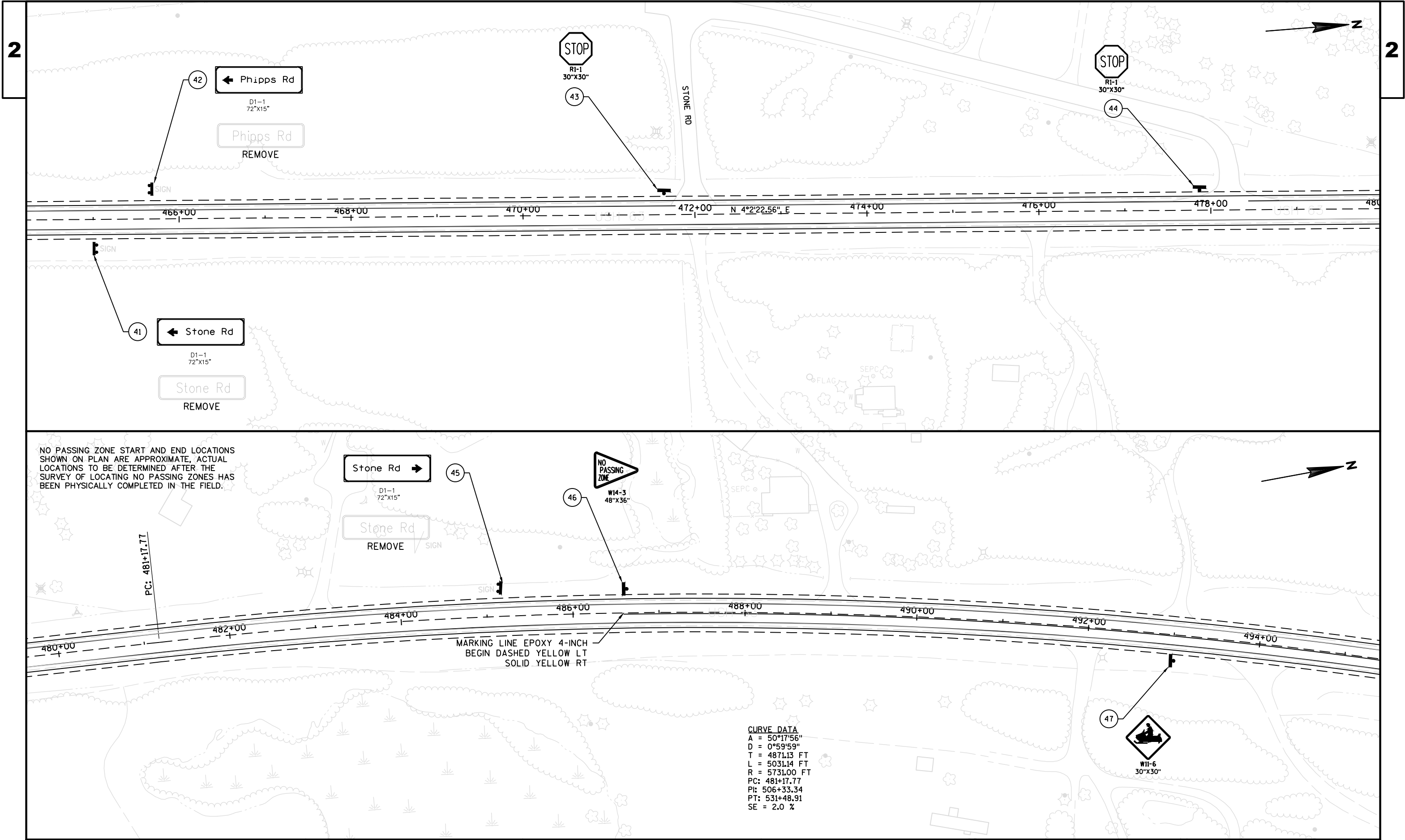
NO PASSING ZONE START AND END LOCATIONS SHOWN ON PLAN ARE APPROXIMATE, ACTUAL LOCATIONS TO BE DETERMINED AFTER THE SURVEY OF LOCATING NO PASSING ZONES HAS BEEN PHYSICALLY COMPLETED IN THE FIELD.

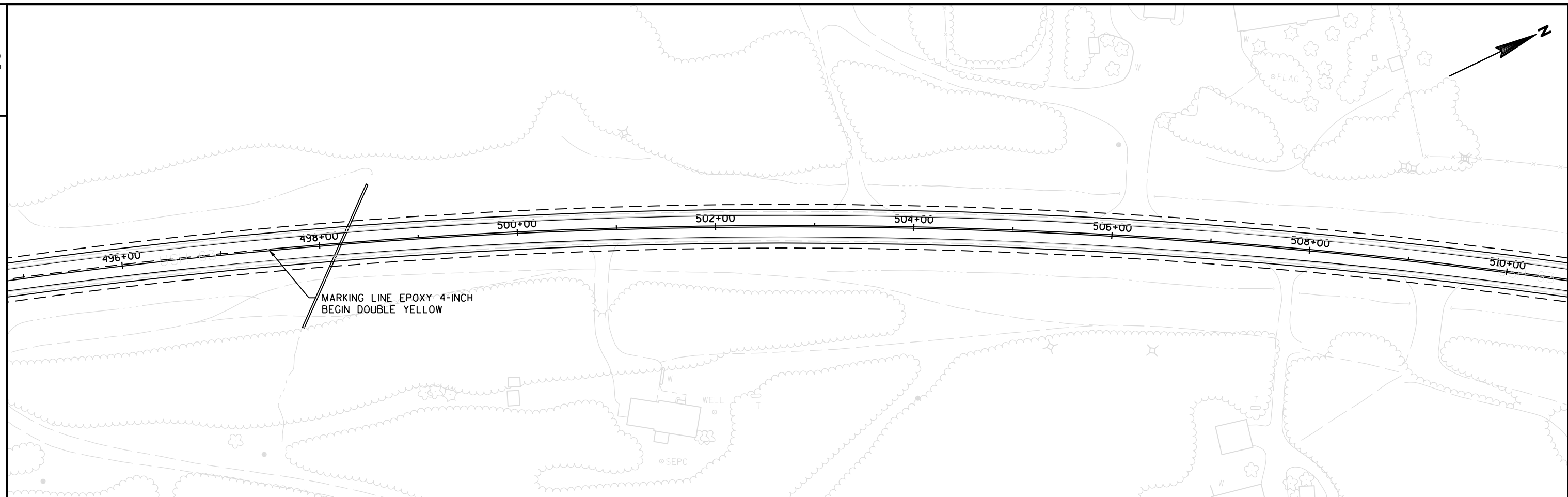


PROJECT NO:1560-02-70	HWY:USH 63	COUNTY:SAWYER	PERMANENT SIGNING & MARKING: USH 63	SHEET 12	E
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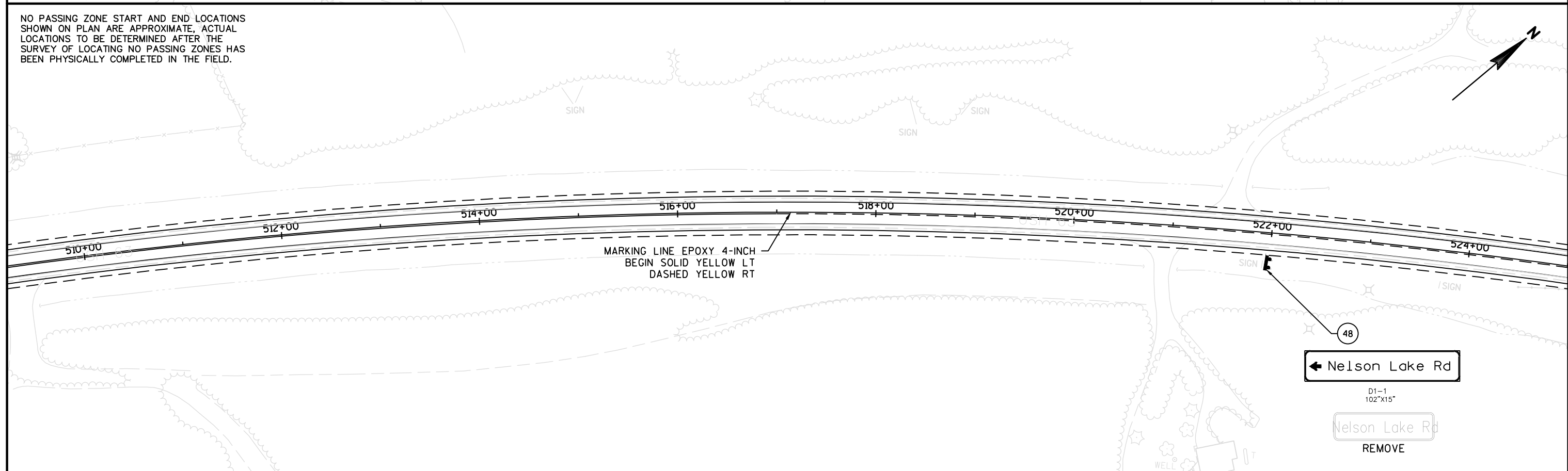




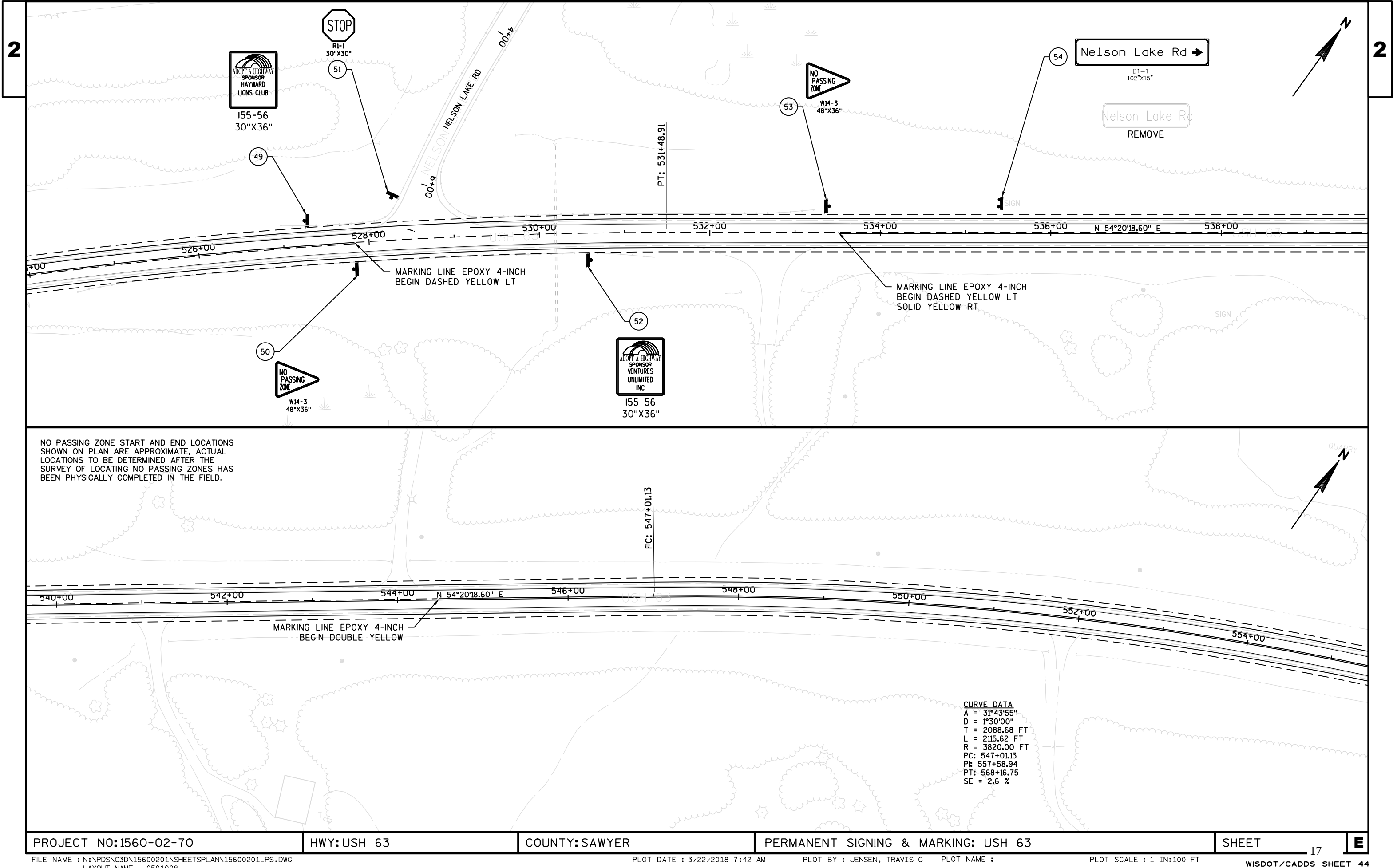


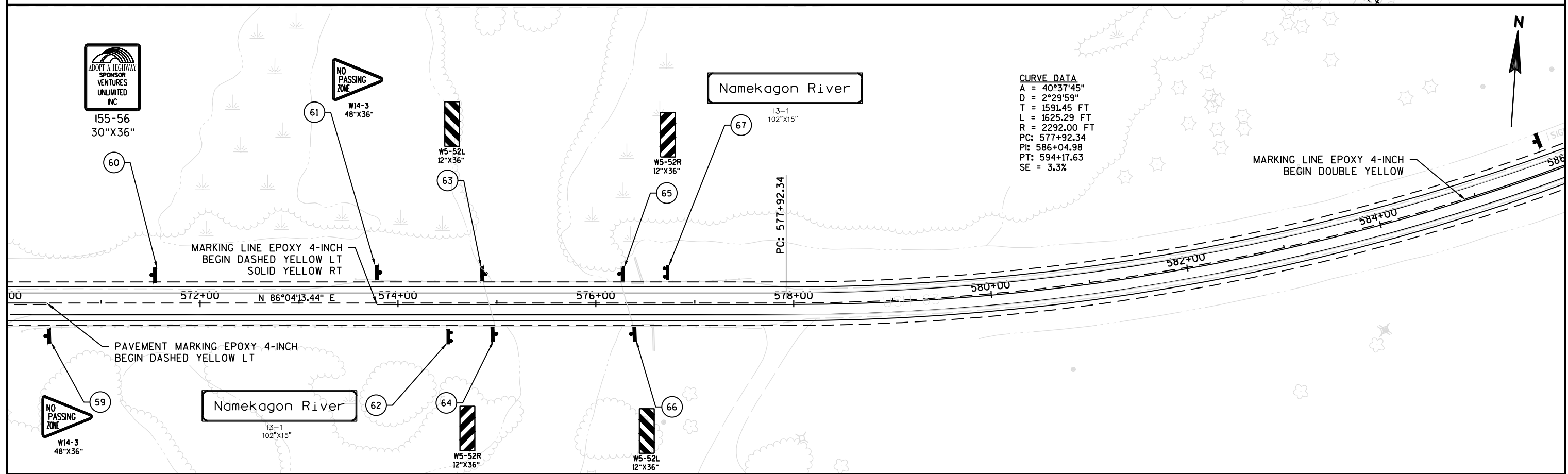


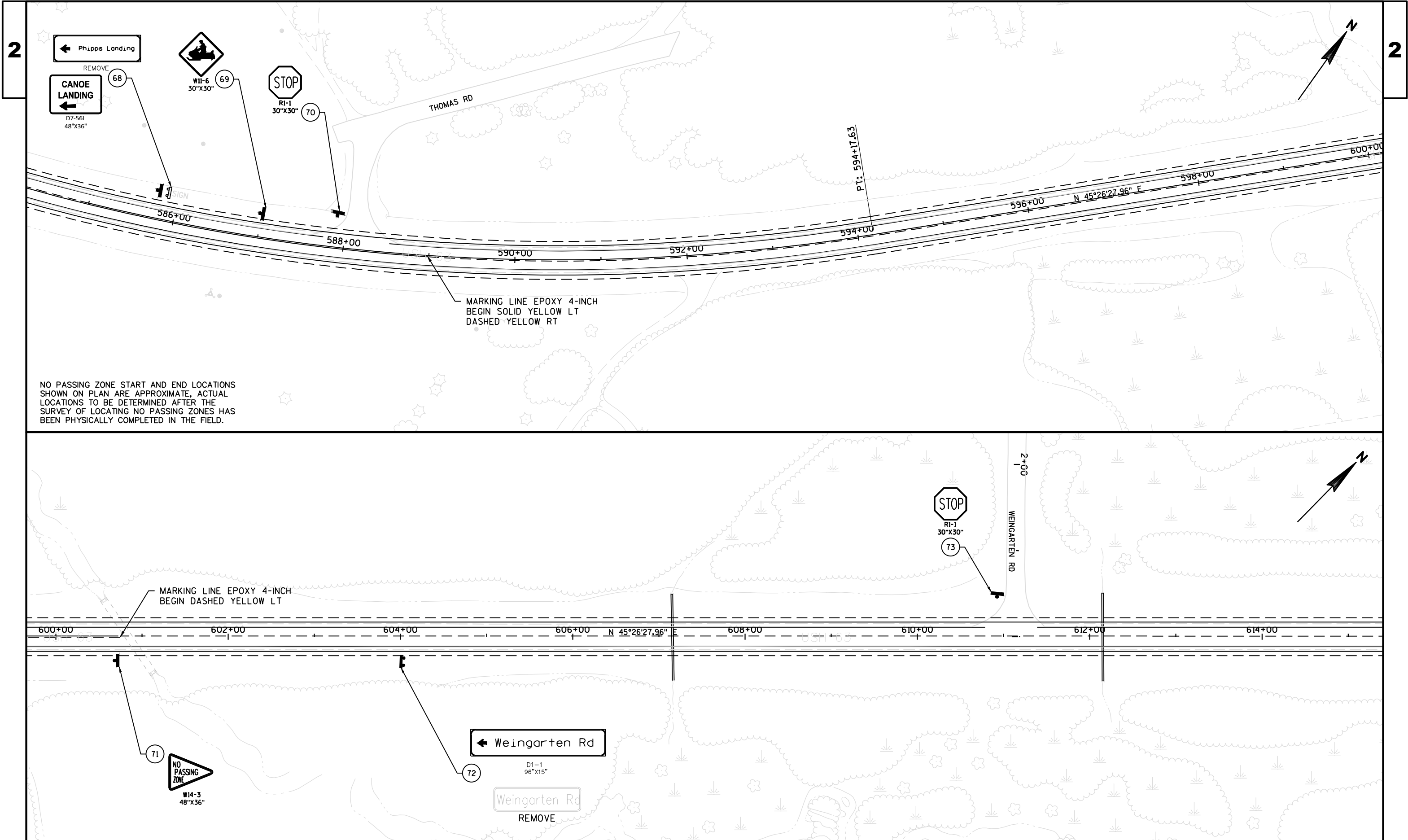
NO PASSING ZONE START AND END LOCATIONS SHOWN ON PLAN ARE APPROXIMATE. ACTUAL LOCATIONS TO BE DETERMINED AFTER THE SURVEY OF LOCATING NO PASSING ZONES HAS BEEN PHYSICALLY COMPLETED IN THE FIELD.



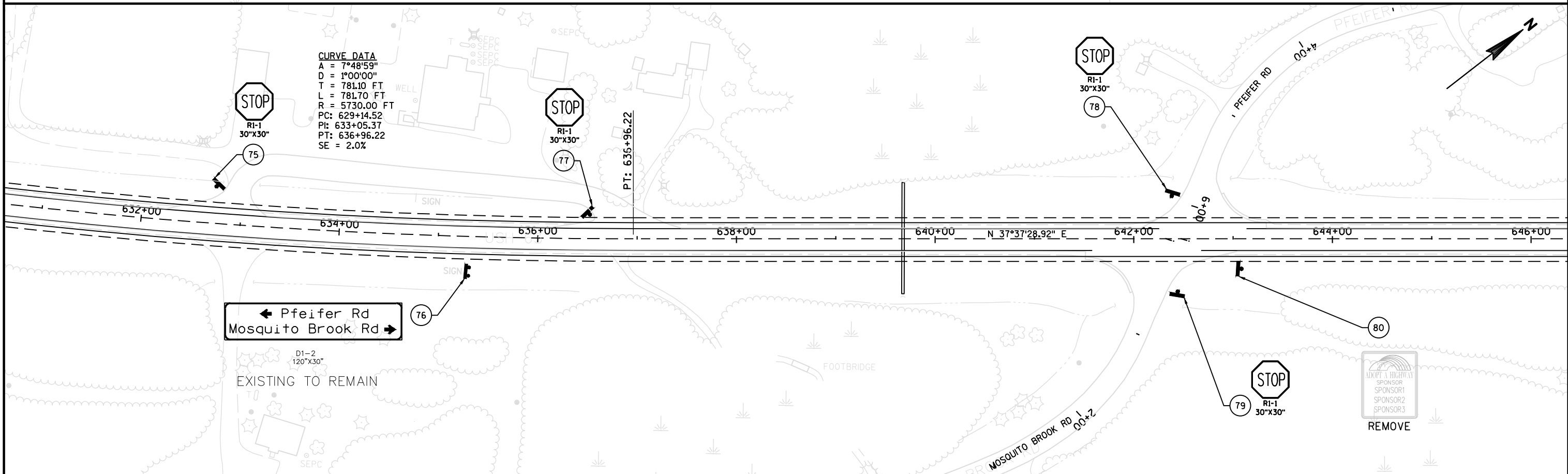
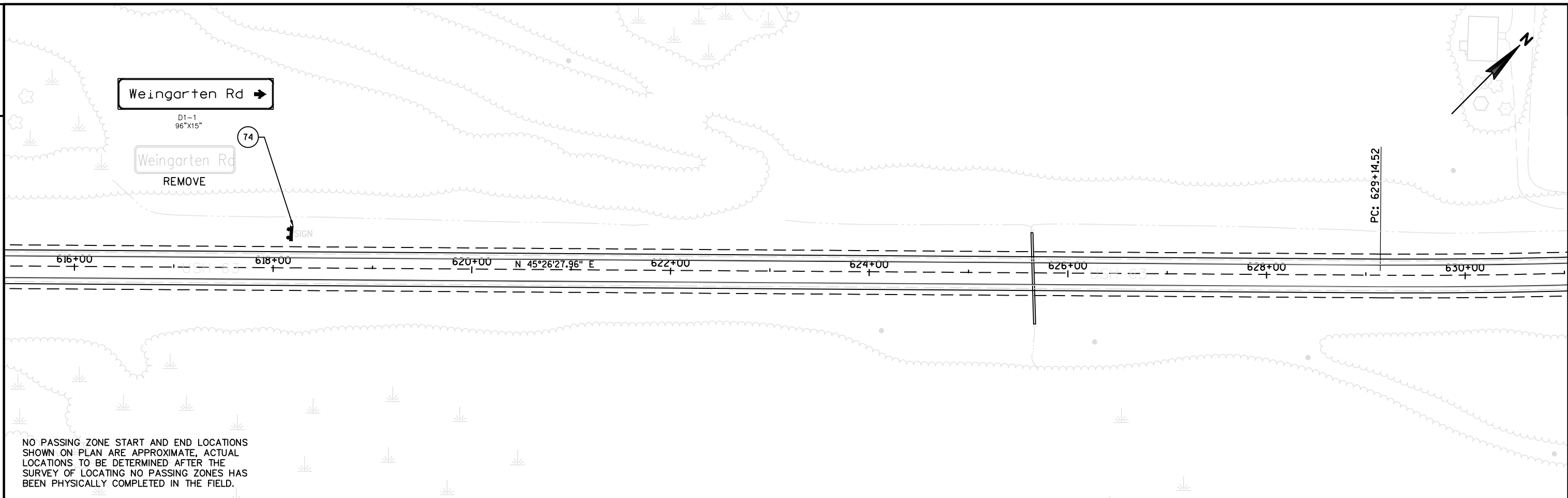
PROJECT NO:1560-02-70	HWY:USH 63	COUNTY:SAWYER	PERMANENT SIGNING & MARKING: USH 63	SHEET 16	E
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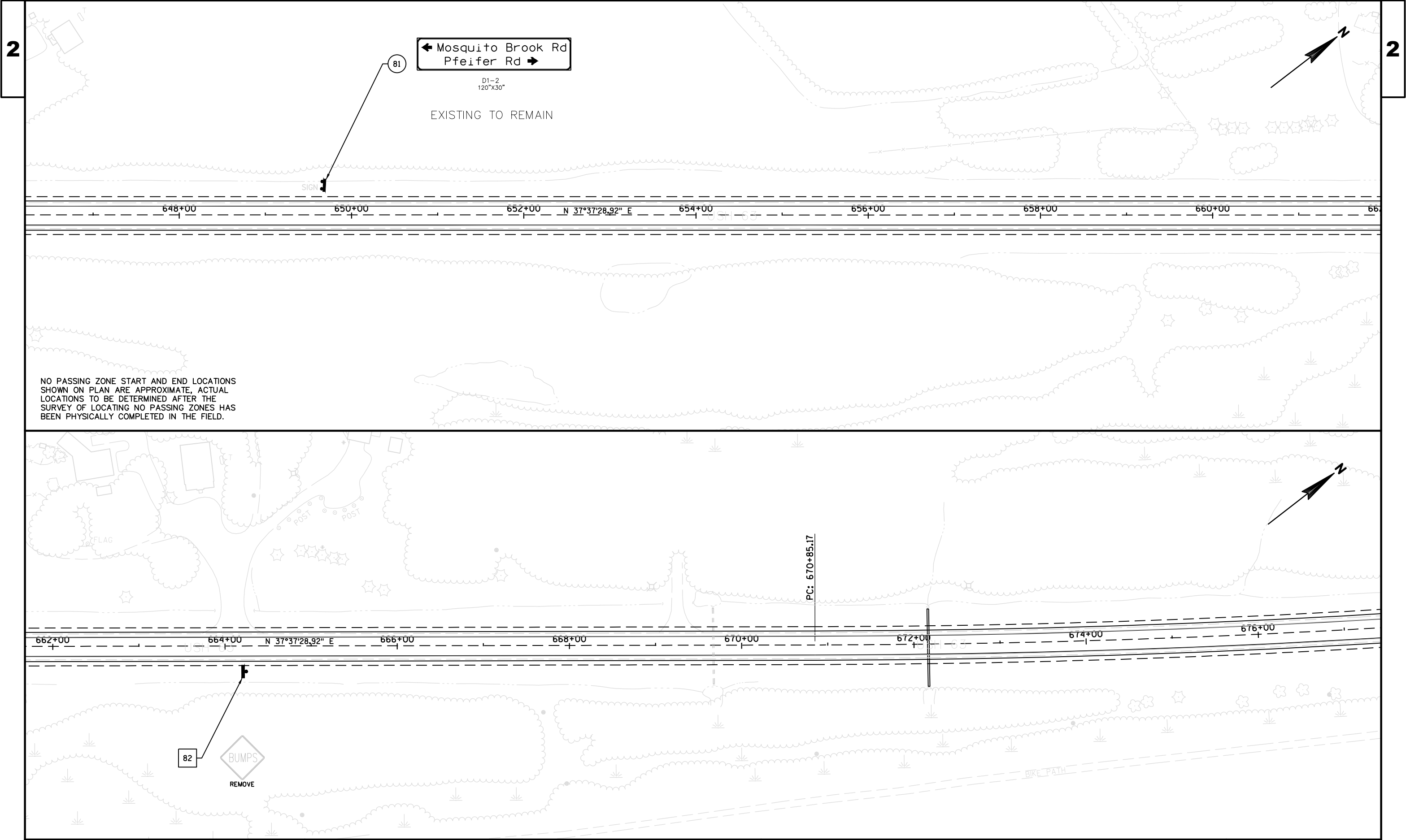






NO PASSING ZONE START AND END LOCATIONS SHOWN ON PLAN ARE APPROXIMATE, ACTUAL LOCATIONS TO BE DETERMINED AFTER THE SURVEY OF LOCATING NO PASSING ZONES HAS BEEN PHYSICALLY COMPLETED IN THE FIELD.





2

CURVE DATA
A = 6°35'57"
D = 0°30'00"
T = 1319.23 FT
L = 1319.96 FT
R = 11460.00 FT
PC: 670+85.17
PI: 677+45.15
PT: 684+05.12
SE = NC

83



PT: 684+05.12

EP: 687+65.44

END PROJECT 1560-02-70
STA 687+65

678+00

680+00

682+00

684+00

N 31°01'31.44" E

686+00

USH 63

SIGN

BIKE PATH

NO PASSING ZONE START AND END LOCATIONS
SHOWN ON PLAN ARE APPROXIMATE, ACTUAL
LOCATIONS TO BE DETERMINED AFTER THE
SURVEY OF LOCATING NO PASSING ZONES HAS
BEEN PHYSICALLY COMPLETED IN THE FIELD.

2

PROJECT NO:1560-02-70

HWY: USH 63

COUNTY: SAWYER

PERMANENT SIGNING & MARKING: USH 63

SHEET

22

E

FILE NAME : N:\PDS\C3D\15600201\SHEETPLAN\15600201_PS.DWG
LAYOUT NAME - 0501013

PLOT DATE : 3/22/2018 7:44 AM

PLOT BY : JENSEN, TRAVIS G

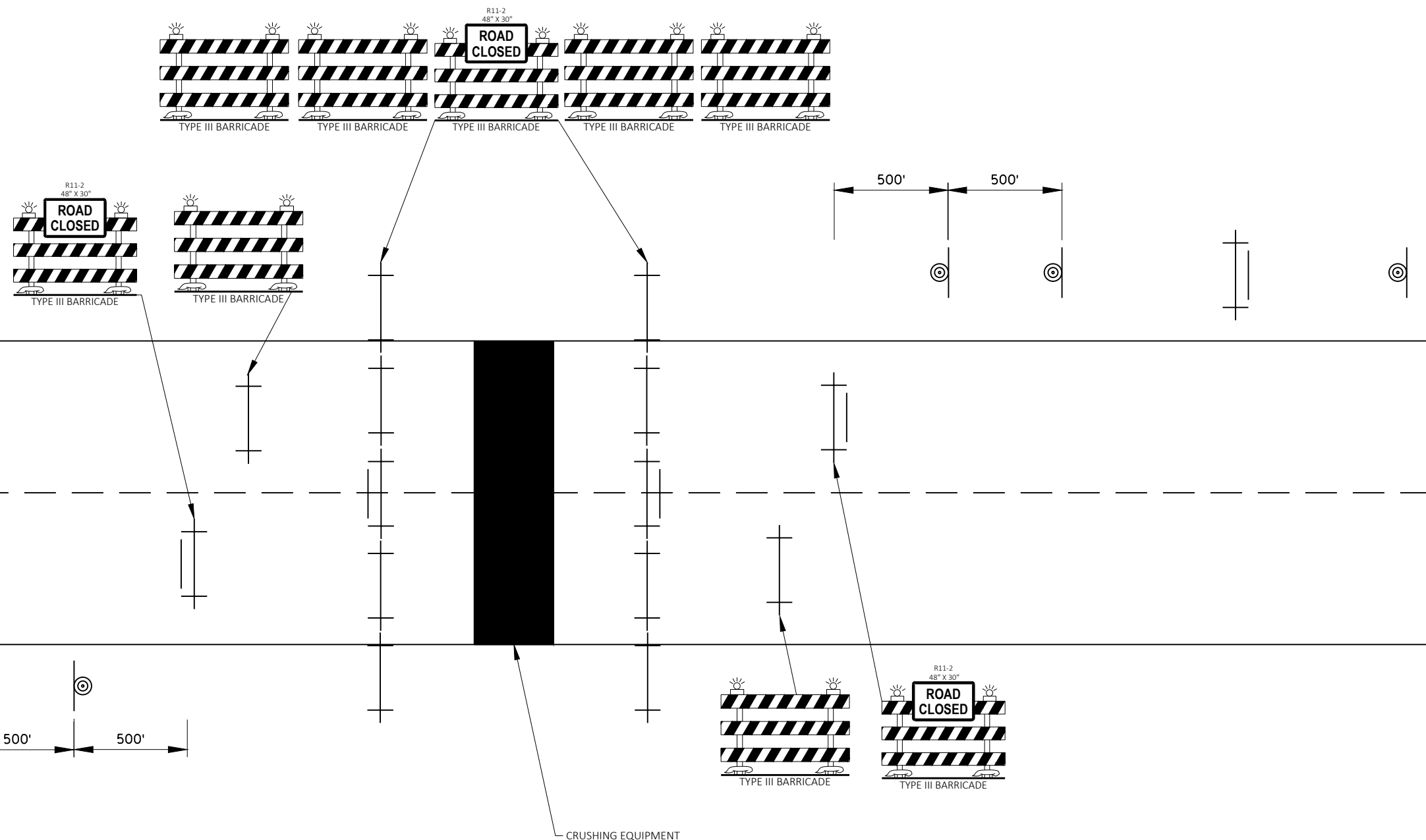
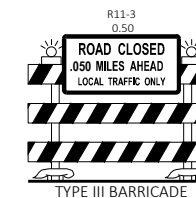
PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDs SHEET 44

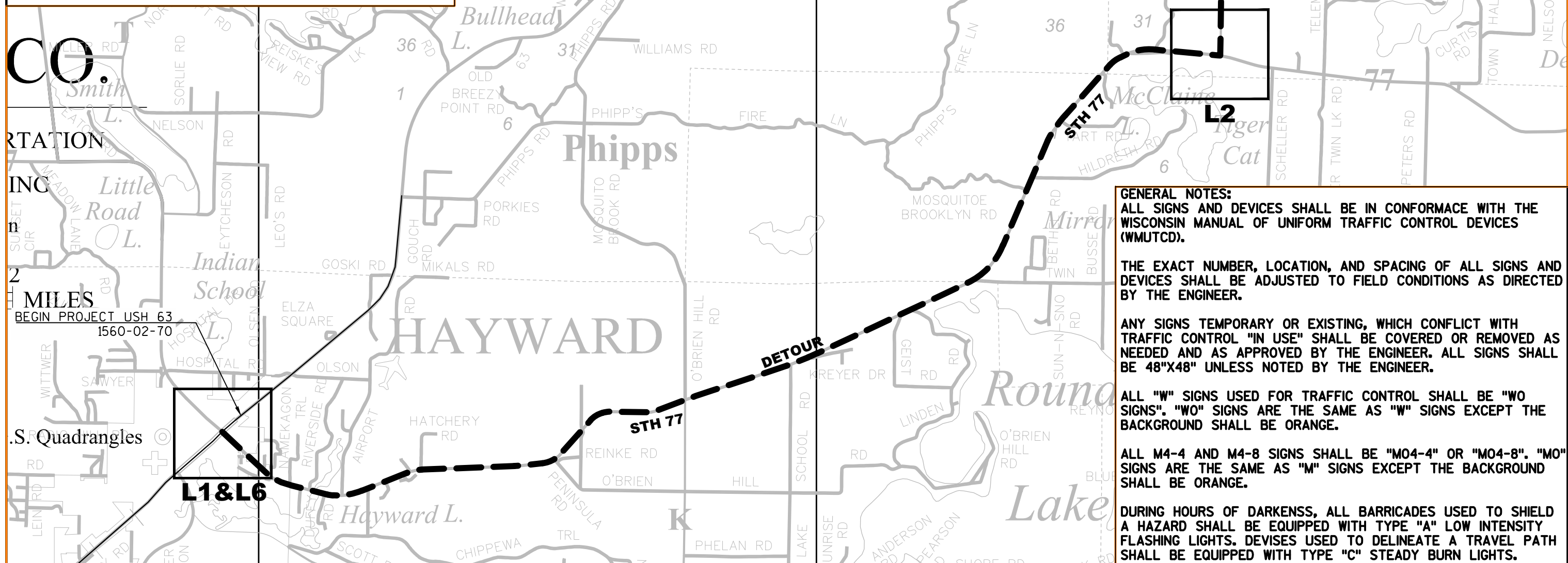
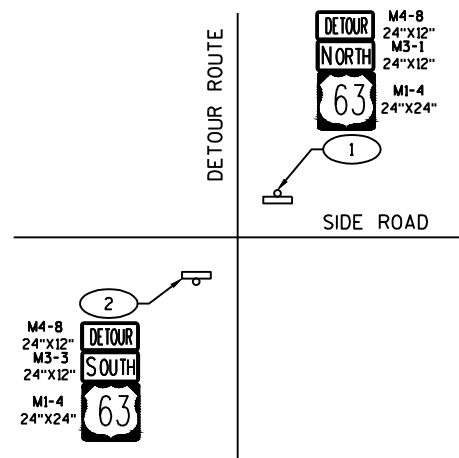
NOTES:
CONTRACTOR SHALL PLACE TRAFFIC CONTROL AS SHOWN ON THIS DETAIL (PER SDD BARRICADES AND SIGNS FOR MAINLINE CLOSURES) AT THE END OF EACH WORK DAY WHILE CONCRETE CRUSHING IS OCCURING TO PROTECT DRIVERS FROM EQUIPMENT LEFT ON THE ROADWAY.

END OF WORK DAY TRAFFIC CONTROL DETAIL



2

- AIRPORT RD
- CTH K
- TWIN LAKE RD
- PHIPPS FIRE LANE RD
- JANET RD
- NORTHERN LIGHTS RD



GENERAL NOTES:
ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

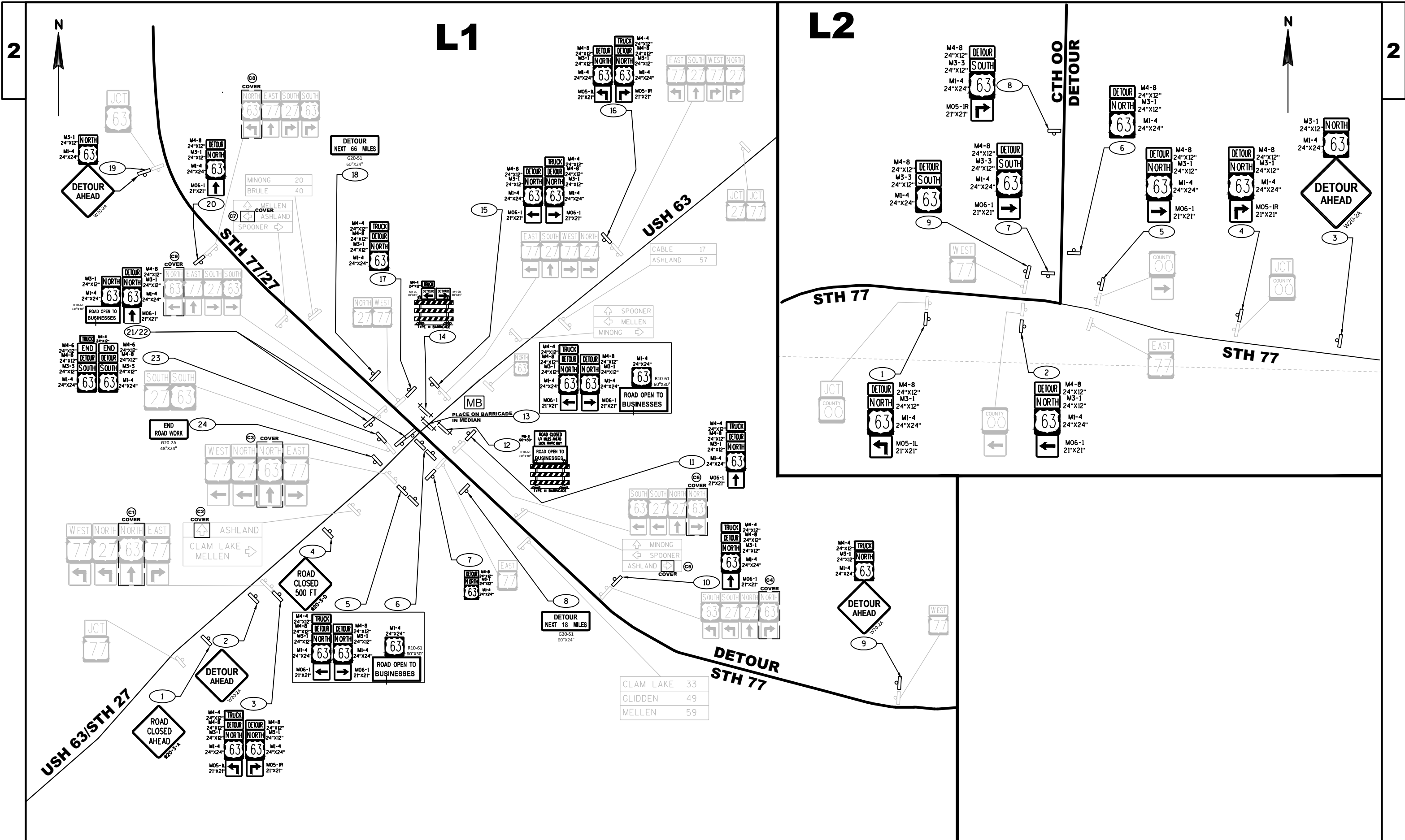
THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

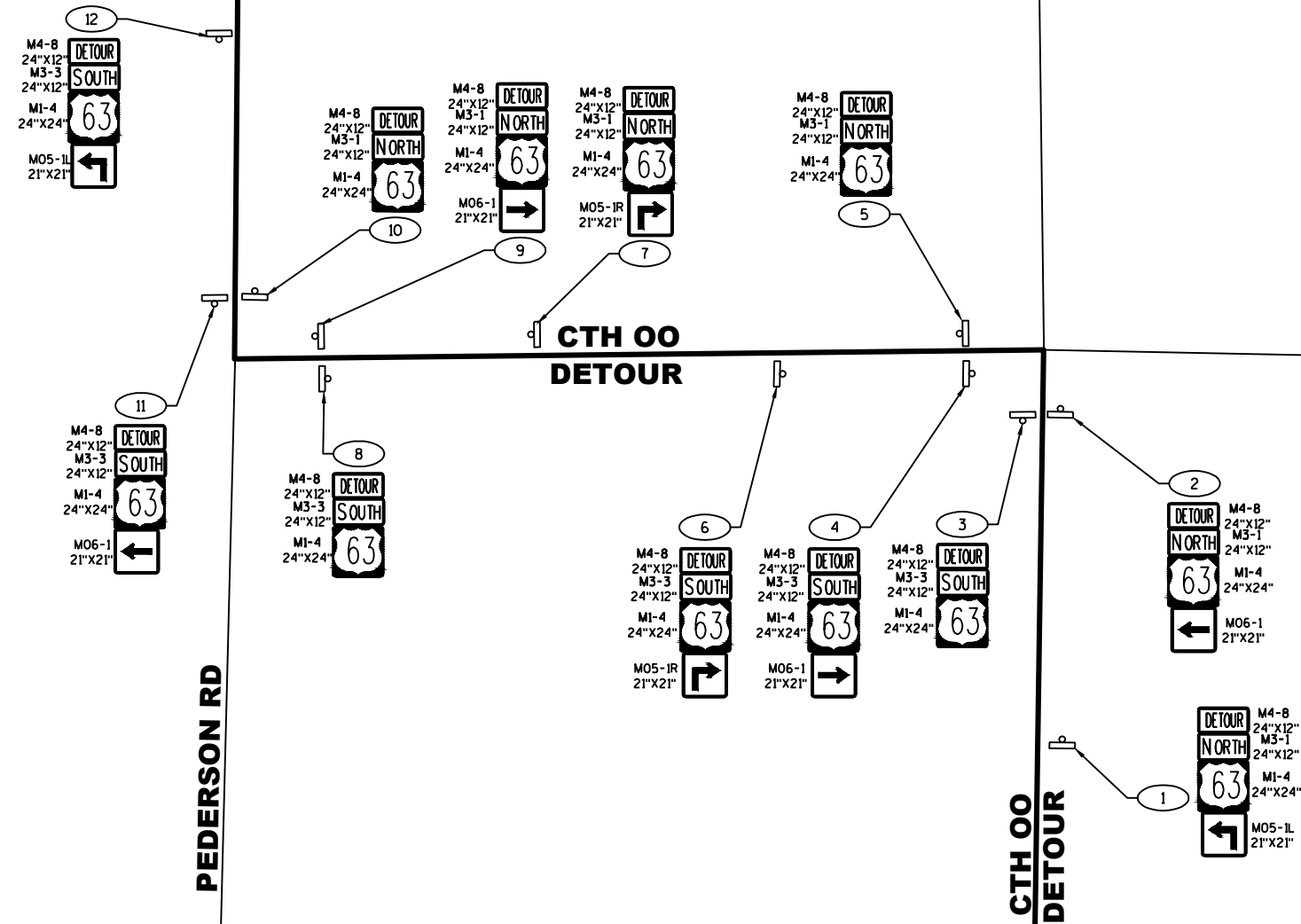
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND AS APPROVED BY THE ENGINEER. ALL SIGNS SHALL BE 48"X48" UNLESS NOTED BY THE ENGINEER.

ALL "W" SIGNS USED FOR TRAFFIC CONTROL SHALL BE "WO SIGNS". "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND SHALL BE ORANGE.

ALL M4-4 AND M4-8 SIGNS SHALL BE "M04-4" OR "M04-8". "M0" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND SHALL BE ORANGE.

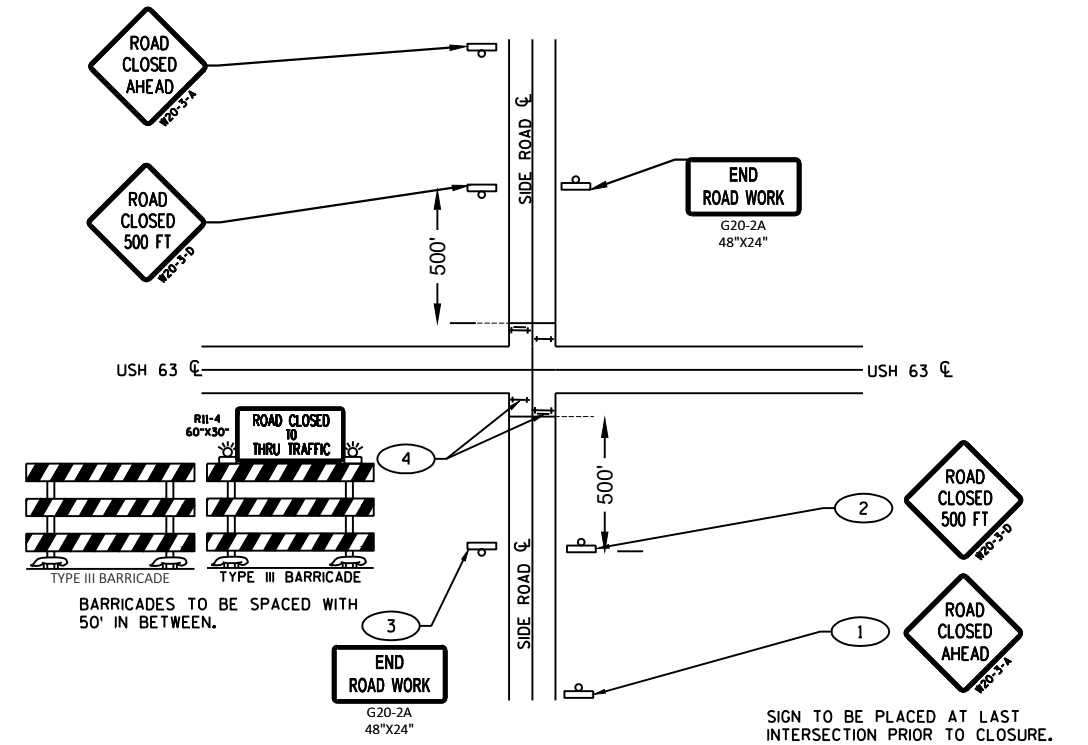
DURING HOURS OF DARKENSS, ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH TYPE "A" LOW INTENSITY FLASHING LIGHTS. DEVICES USED TO DELINEATE A TRAVEL PATH SHALL BE EQUIPPED WITH TYPE "C" STEADY BURN LIGHTS.

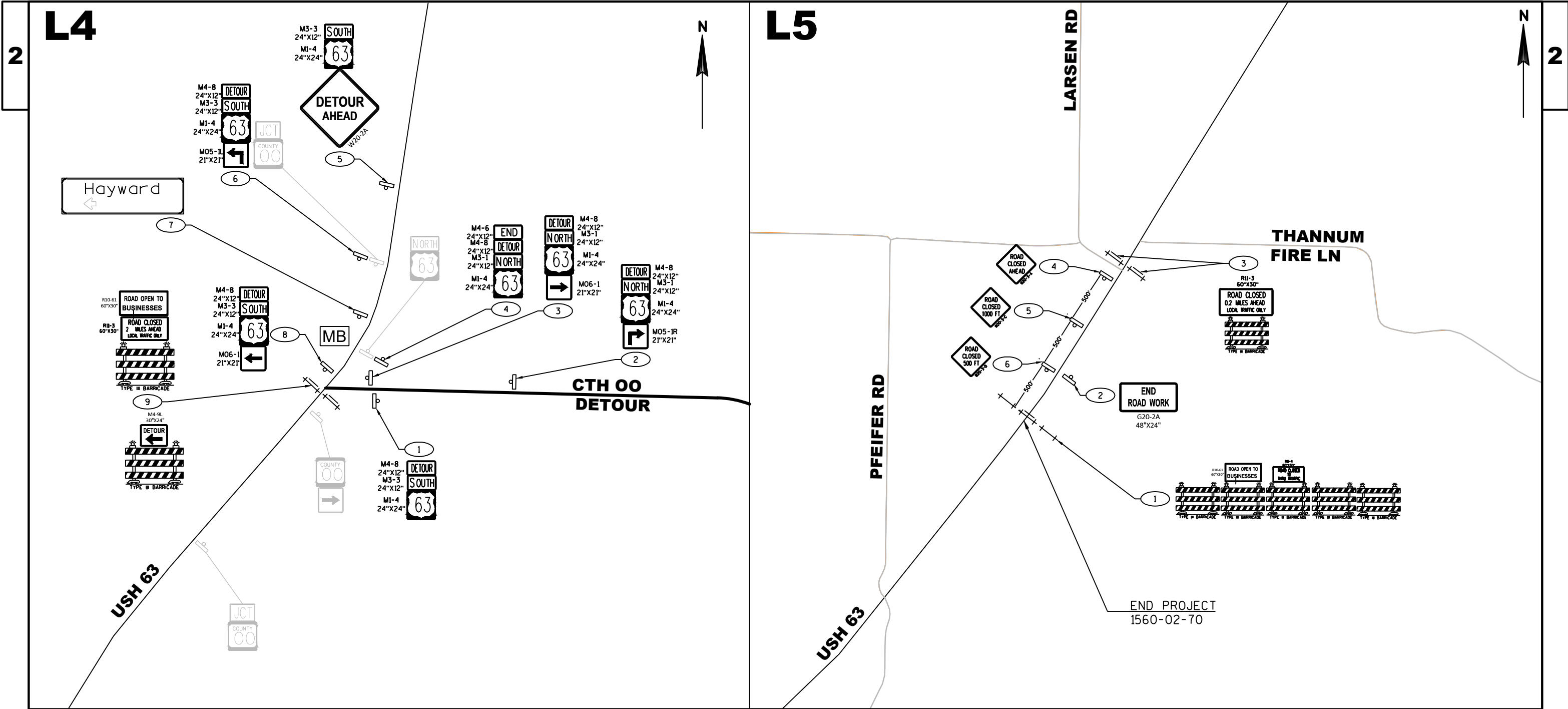




TYPICAL SIDEROAD CONSTRUCTION SIGNING DETAIL

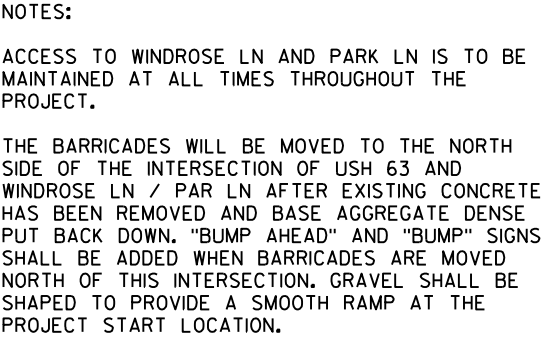
PER SDD 15C3 "BARRICADES AND
SIGNS FOR SIDEROAD CLOSURES"
DETAIL 4

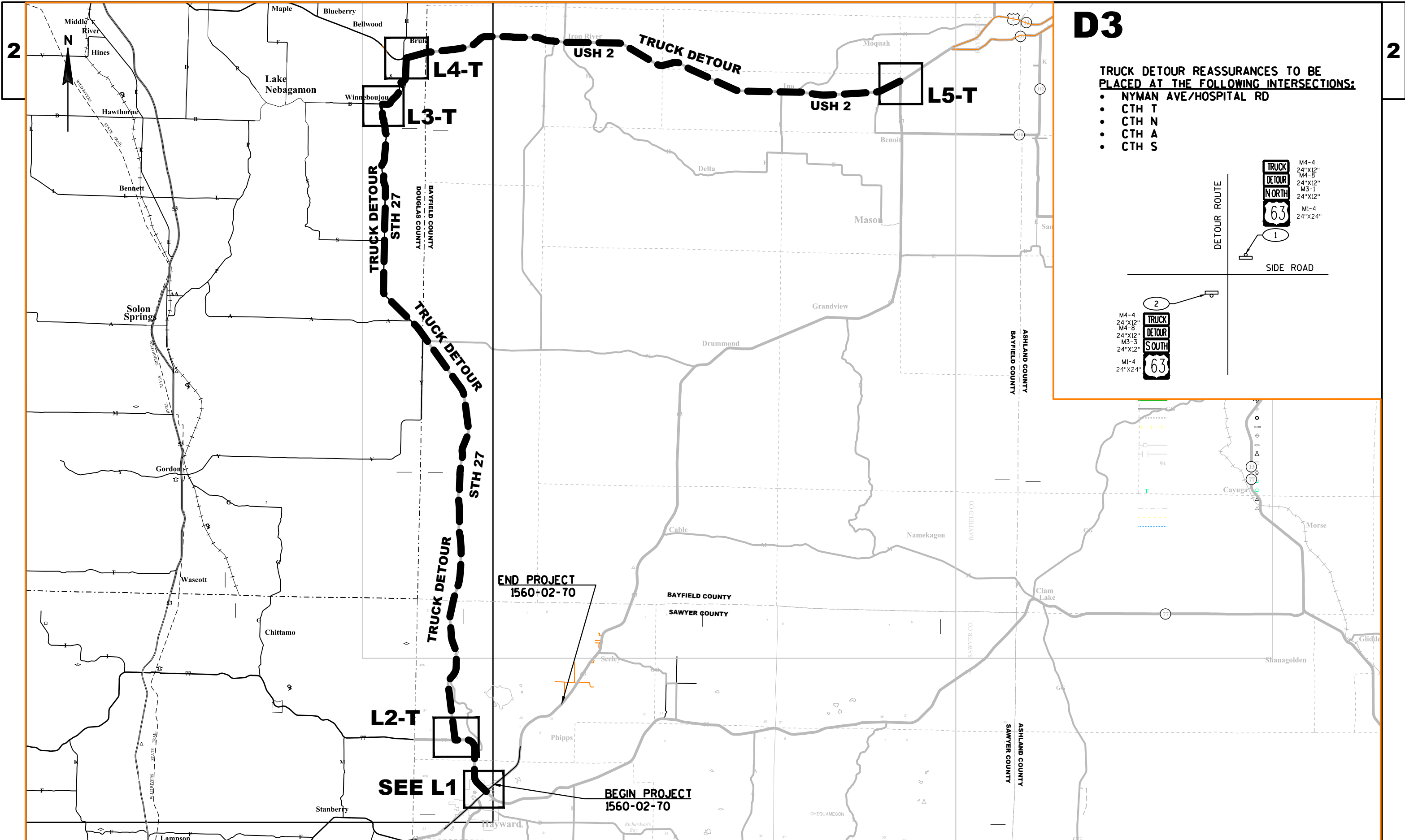




L6

N

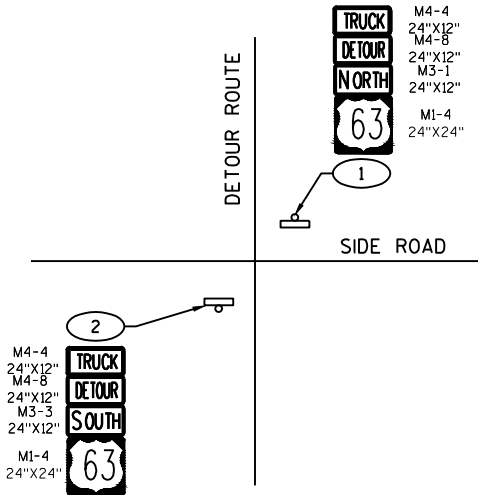




D3

TRUCK DETOUR REASSURANCES TO BE PLACED AT THE FOLLOWING INTERSECTIONS:

- NYMAN AVE/HOSPITAL RD
- CTH T
- CTH N
- CTH A
- CTH S



PROJECT NO:1560-02-70

HWY:USH 63

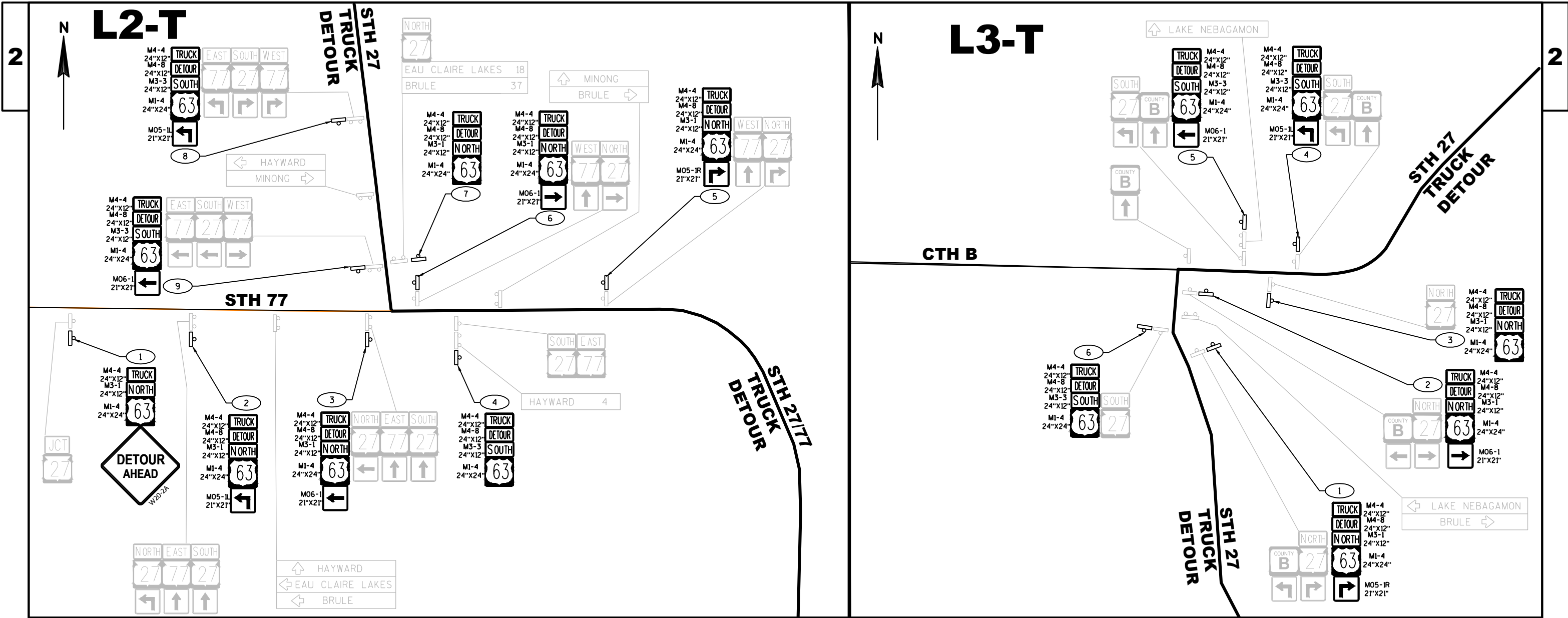
COUNTY:SAWYER

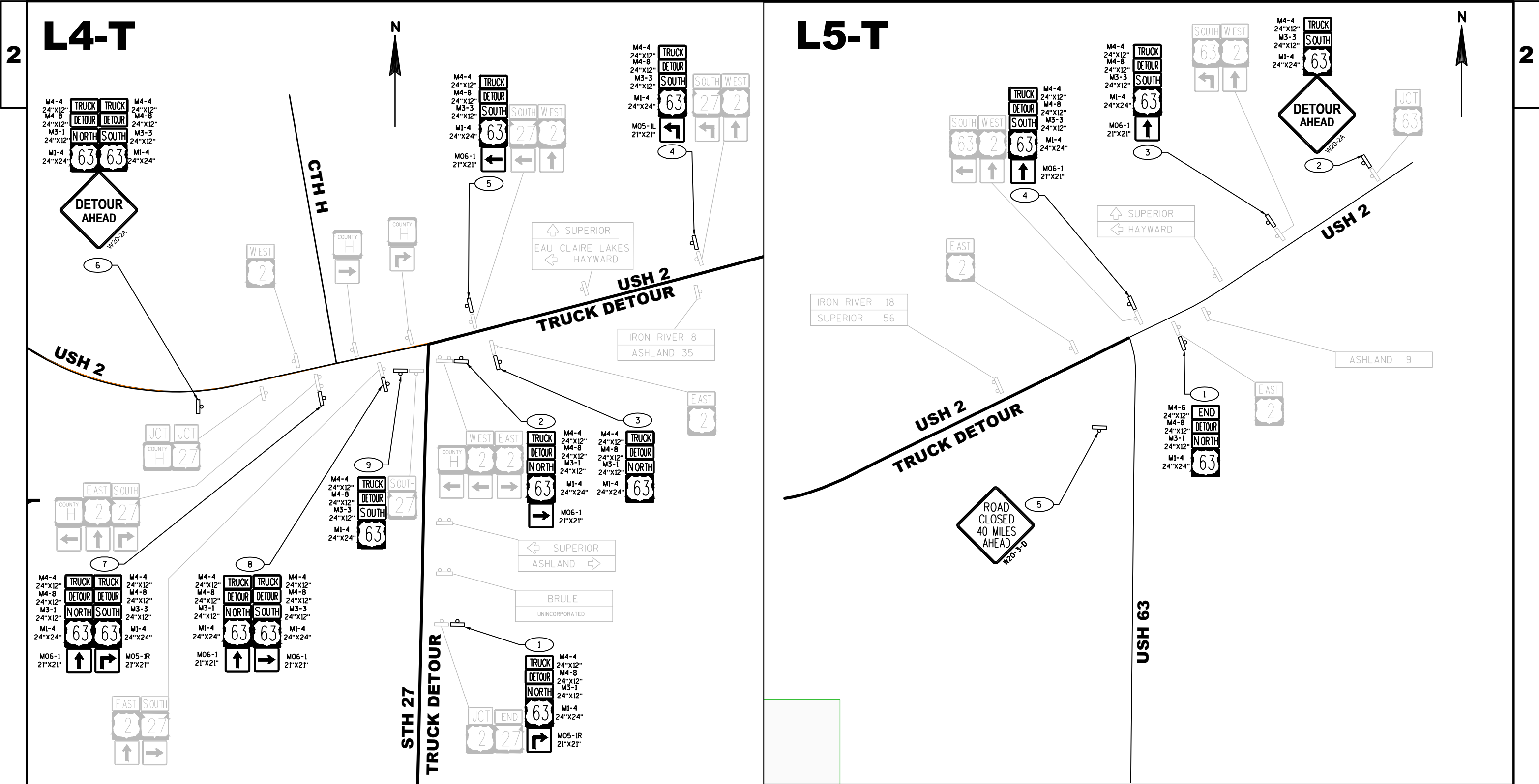
TRUCK DETOUR SIGNING PLAN

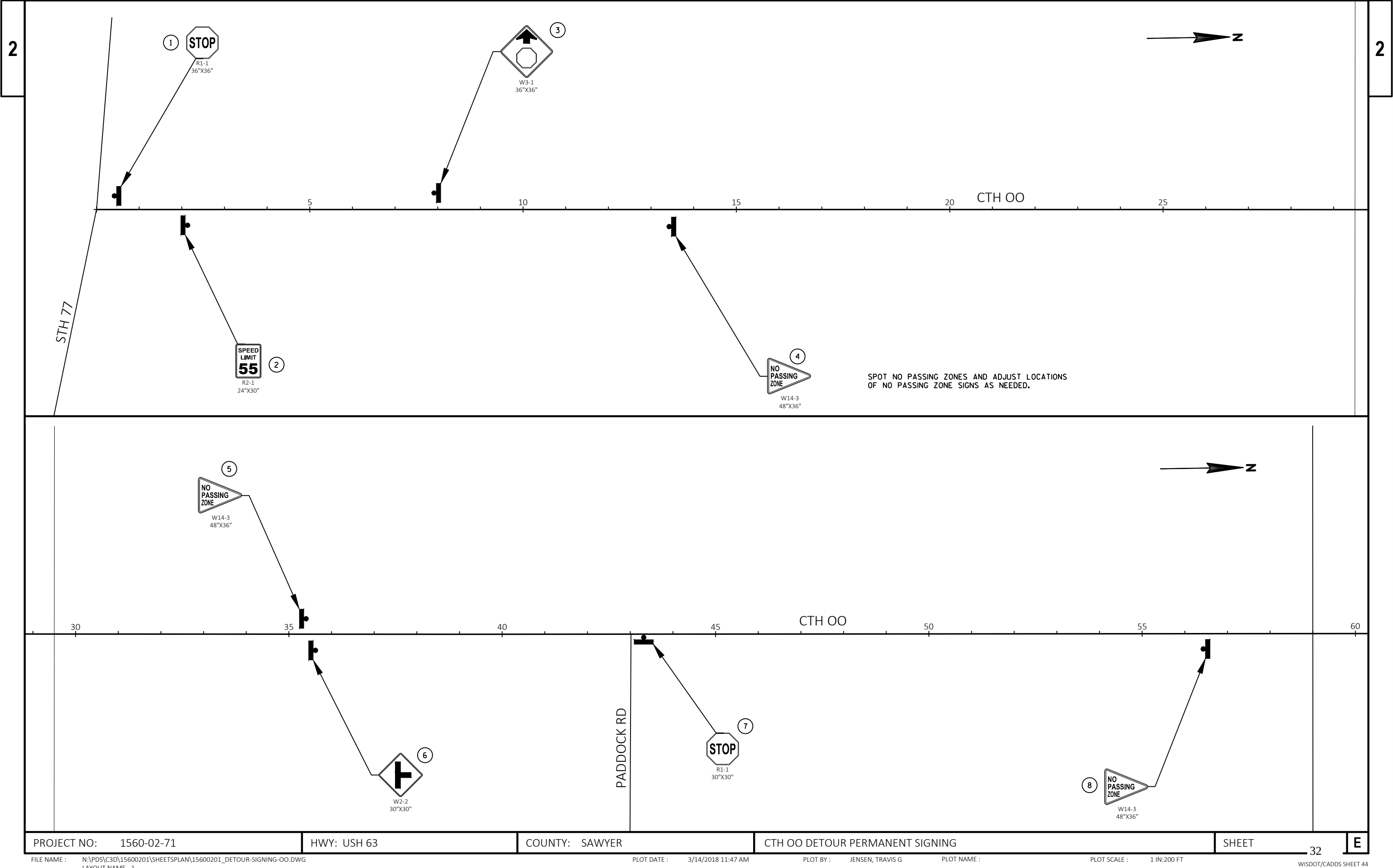
SHEET

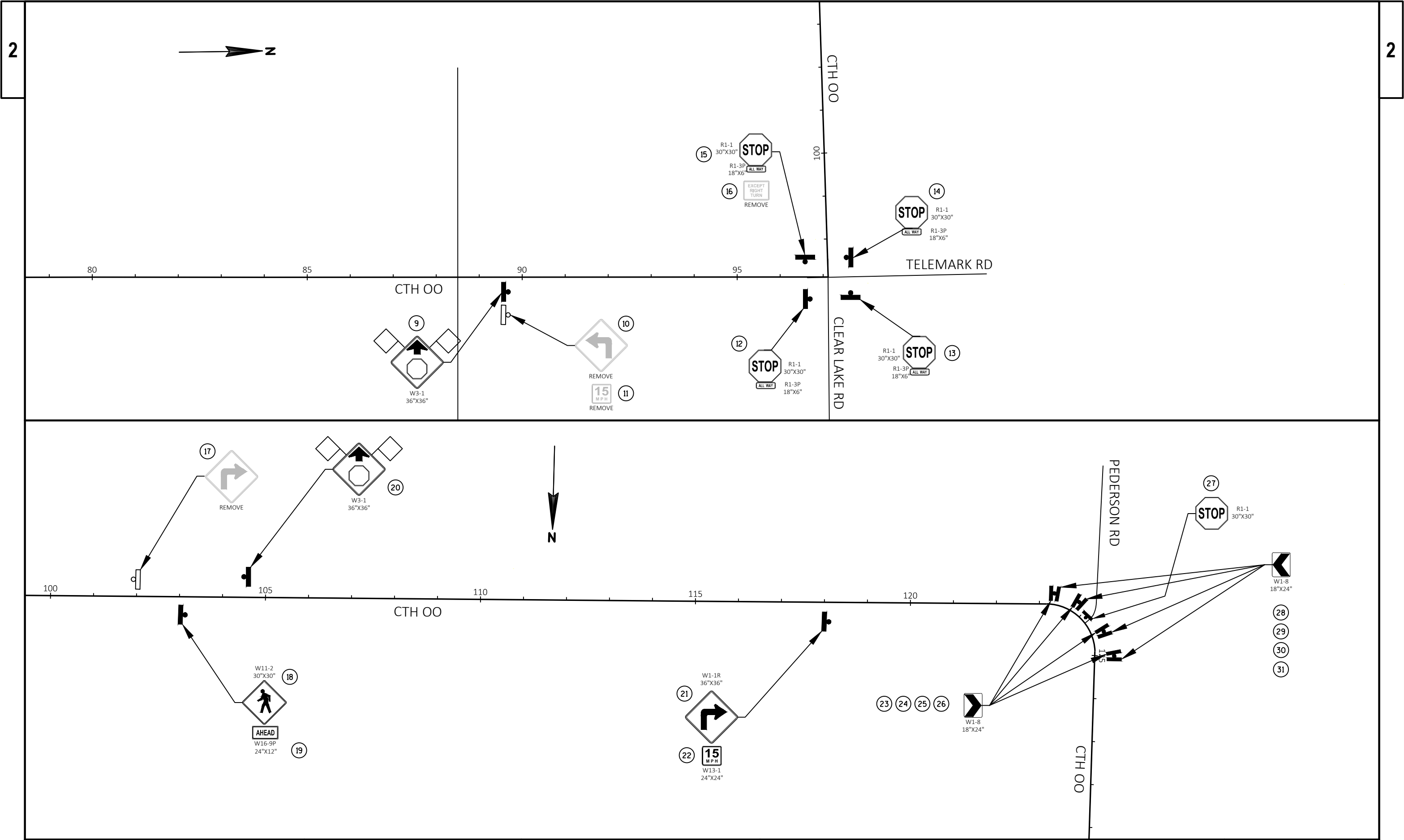
29

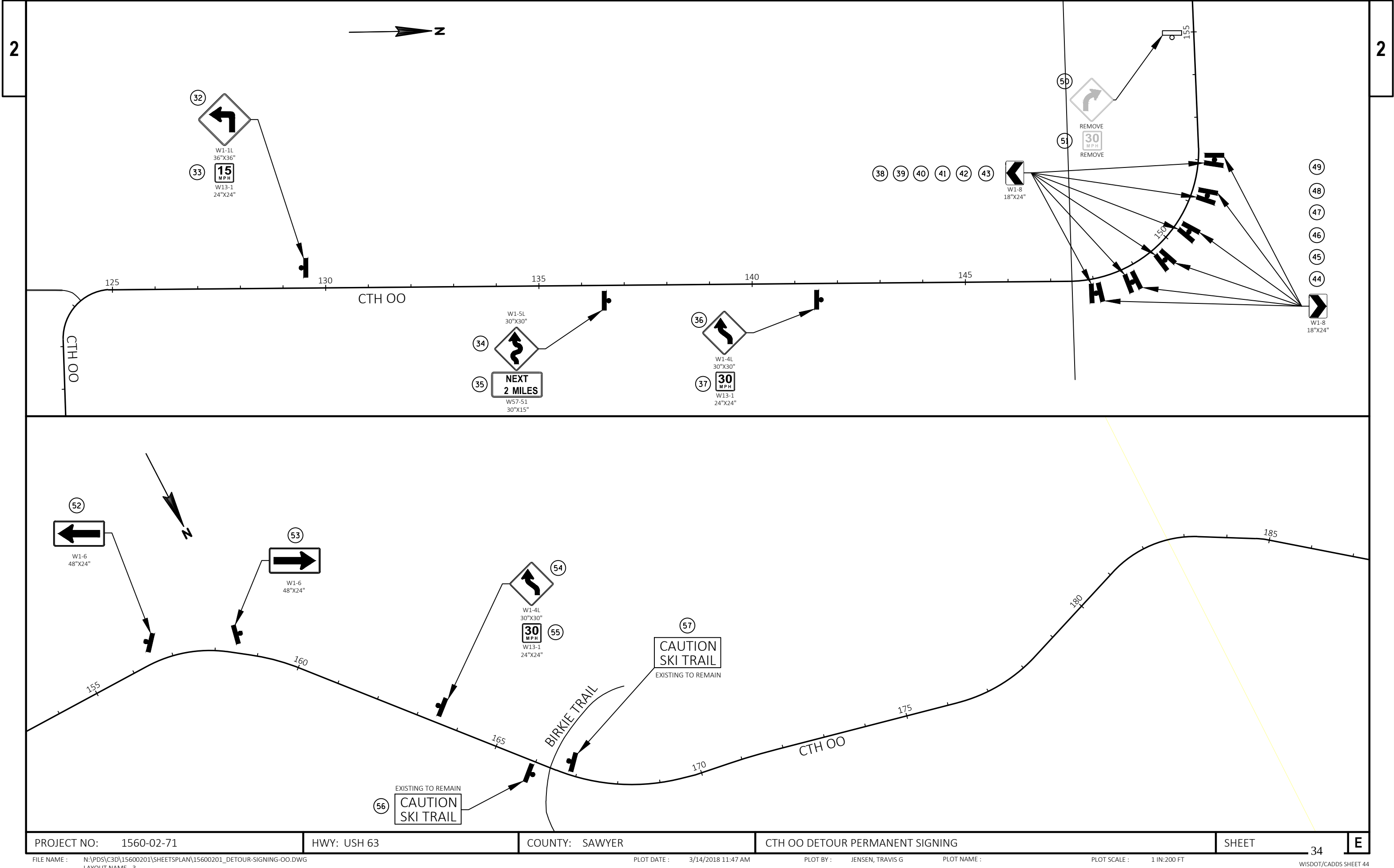
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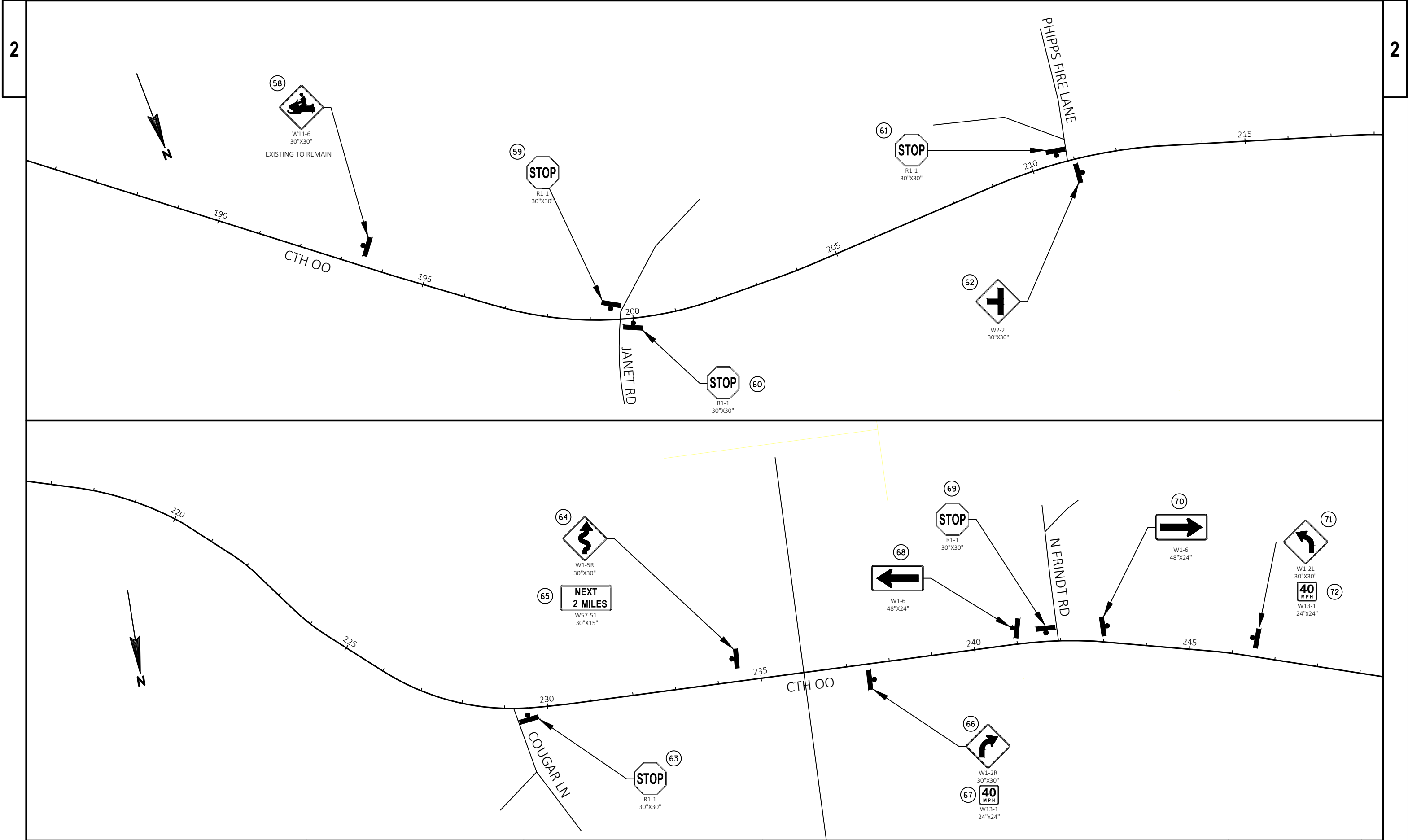


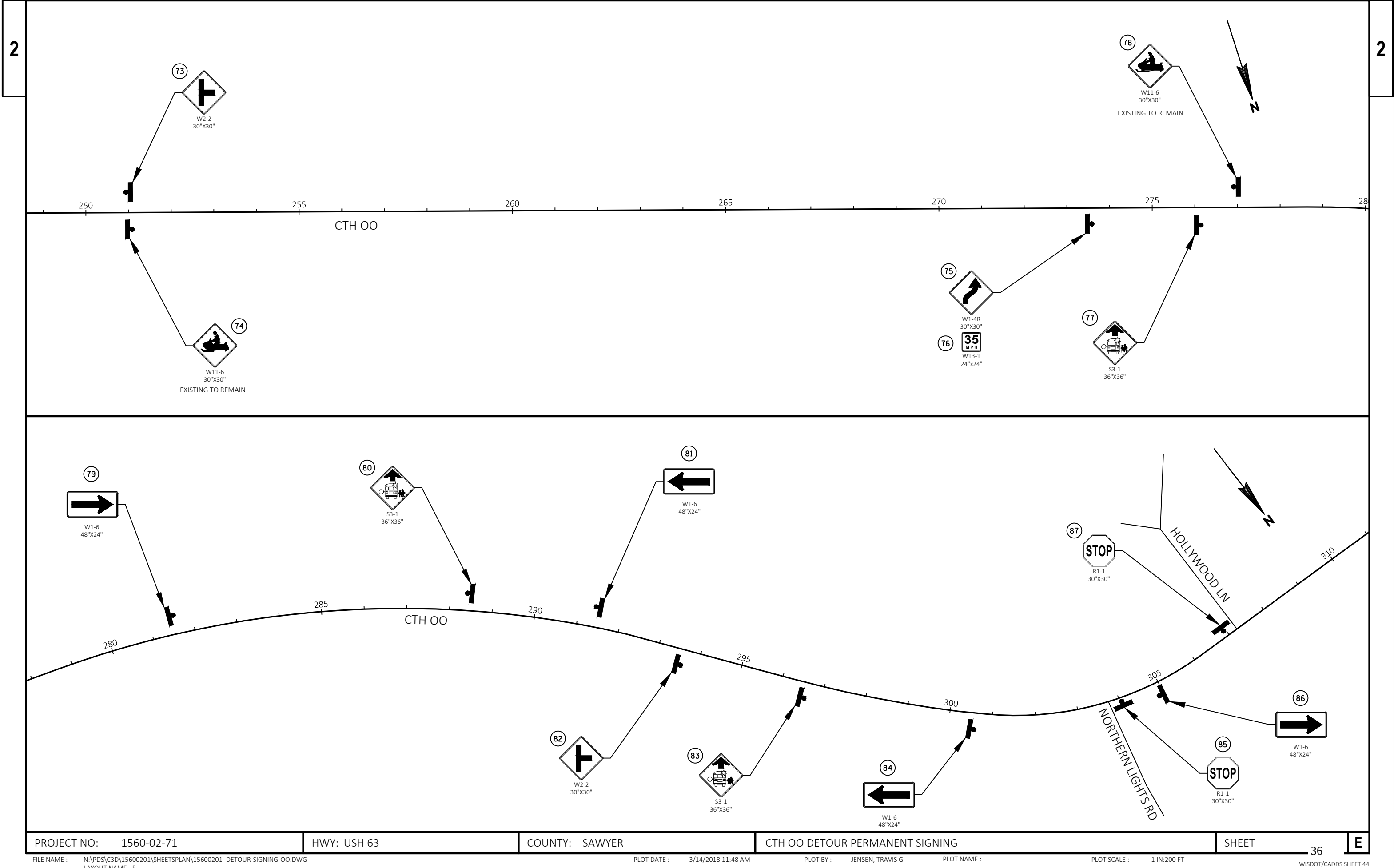


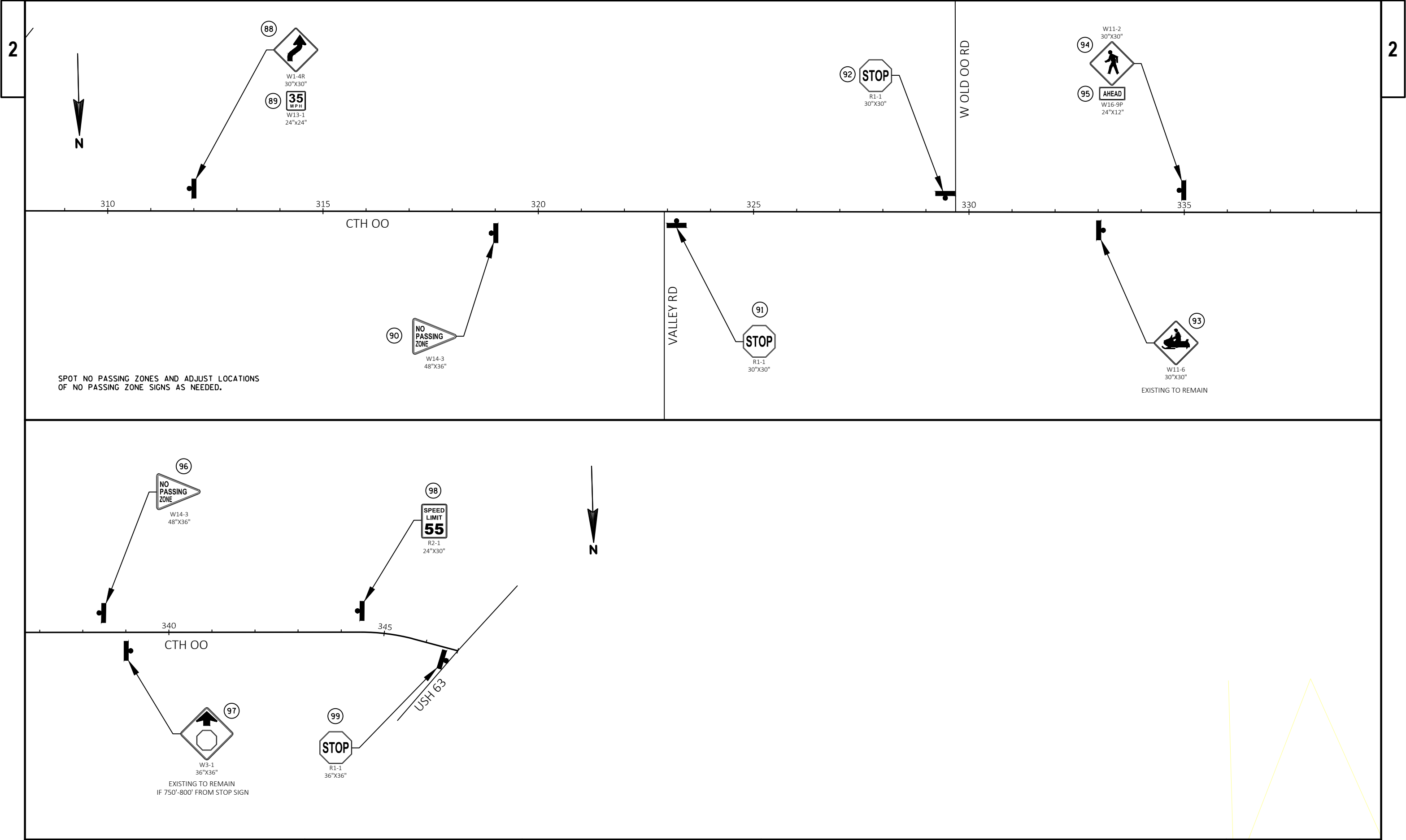












Estimate Of Quantities

		1560-02-70		1560-02-75	
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	7.000	7.000
0004	201.0205	Grubbing	STA	7.000	7.000
0006	203.0100	Removing Small Pipe Culverts	EACH	10.000	10.000
0008	203.0200	Removing Old Structure (station) 01. 600+85	LS	1.000	1.000
0010	204.0100	Removing Pavement	SY	98,760.000	98,760.000
0012	204.0110	Removing Asphaltic Surface	SY	33,945.000	33,945.000
0014	204.0115	Removing Asphaltic Surface Butt Joints	SY	310.000	310.000
0016	204.0150	Removing Curb & Gutter	LF	71.000	71.000
0018	204.0165	Removing Guardrail	LF	1,380.000	1,380.000
0020	205.0100	Excavation Common	CY	749.000	749.000
0022	205.0400	Excavation Marsh	CY	1,981.000	1,981.000
0024	208.1100	Select Borrow	CY	3,605.000	3,605.000
0026	213.0100	Finishing Roadway (project) 01. 1560-02-70	EACH	1.000	1.000
0028	213.0100	Finishing Roadway (project) 02. 1560-02-75	EACH	1.000	1.000
0030	214.0100	Obliterating Old Road	STA	3.700	3.700
0032	305.0110	Base Aggregate Dense 3/4-Inch	TON	7,087.000	6,909.000
0034	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	45,569.000	42,917.000
0036	440.4410	Incentive IRI Ride	DOL	18,518.000	18,518.000
0038	455.0605	Tack Coat	GAL	6,476.000	6,476.000
0040	460.2000	Incentive Density HMA Pavement	DOL	24,380.000	24,380.000
0042	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	74,070.000	74,070.000
0044	460.6223	HMA Pavement 3 MT 58-28 S	TON	17,496.000	17,496.000
0046	460.6444	HMA Pavement 4 MT 58-34 H	TON	20,422.000	20,422.000
0048	465.0115	Asphaltic Surface Detours	TON	4,731.000	4,731.000
0050	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	82.000	82.000
0052	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	74,070.000	74,070.000
0054	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	37,035.000	37,035.000
0056	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	832.000	832.000
0058	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	252.000	252.000
0060	522.0160	Culvert Pipe Reinforced Concrete Class III 60-Inch	LF	210.000	210.000
0062	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	16.000	16.000
0064	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	4.000	4.000
0066	522.1060	Apron Endwalls for Culvert Pipe Reinforced Concrete 60-Inch	EACH	4.000	4.000
0068	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	199.000	199.000
0070	606.0200	Riprap Medium	CY	11.000	11.000
0072	614.0305	Steel Plate Beam Guard Class A	LF	758.000	758.000
0074	614.0345	Steel Plate Beam Guard Short Radius	LF	136.000	136.000

Estimate Of Quantities

				1560-02-70	1560-02-75	
Line	Item	Item Description	Unit	Total	Qty	Qty
0076	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	2.000	2.000	
0078	614.0400	Adjusting Steel Plate Beam Guard	LF	775.000	775.000	
0080	614.2330	MGS Guardrail 3 K	LF	760.000	760.000	
0082	614.2610	MGS Guardrail Terminal EAT	EACH	2.000	2.000	
0084	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1560-02-70	EACH	1.000	1.000	
0086	619.1000	Mobilization	EACH	1.000	0.875	0.125
0088	624.0100	Water	MGAL	630.000	598.000	32.000
0090	625.0500	Salvaged Topsoil	SY	8,891.000	3,349.000	5,542.000
0092	627.0200	Mulching	SY	8,891.000	3,349.000	5,542.000
0094	628.1104	Erosion Bales	EACH	40.000	30.000	10.000
0096	628.1504	Silt Fence	LF	3,347.000	1,828.000	1,519.000
0098	628.1520	Silt Fence Maintenance	LF	3,347.000	1,828.000	1,519.000
0100	628.1905	Mobilizations Erosion Control	EACH	14.000	14.000	
0102	628.1910	Mobilizations Emergency Erosion Control	EACH	7.000	7.000	
0104	629.0210	Fertilizer Type B	CWT	5.600	2.100	3.500
0106	630.0120	Seeding Mixture No. 20	LB	240.000	90.000	150.000
0108	633.5200	Markers Culvert End	EACH	24.000	24.000	
0110	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	154.000	154.000	
0112	637.2210	Signs Type II Reflective H	SF	581.000	581.000	
0114	637.2230	Signs Type II Reflective F	SF	431.000	431.000	
0116	638.2602	Removing Signs Type II	EACH	160.000	160.000	
0118	638.3000	Removing Small Sign Supports	EACH	162.000	162.000	
0120	642.5201	Field Office Type C	EACH	1.000	1.000	
0122	643.0420	Traffic Control Barricades Type III	DAY	1,876.000	1,876.000	
0124	643.0705	Traffic Control Warning Lights Type A	DAY	3,618.000	3,618.000	
0126	643.0900	Traffic Control Signs	DAY	31,774.000	31,774.000	
0128	643.0920	Traffic Control Covering Signs Type II	EACH	9.000	9.000	
0130	643.1050	Traffic Control Signs PCMS	DAY	146.000	146.000	
0132	643.5000	Traffic Control	EACH	1.000	1.000	
0134	646.1020	Marking Line Epoxy 4-Inch	LF	97,434.000	97,434.000	
0136	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	74,071.000	74,071.000	
0138	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	80.000	80.000	
0140	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	28,586.000	28,586.000	
0142	648.0100	Locating No-Passing Zones	MI	13.600	13.600	
0144	649.0105	Temporary Marking Line Paint 4-Inch	LF	22,860.000	22,860.000	
0146	650.4500	Construction Staking Subgrade	LF	833.000		833.000
0148	650.5000	Construction Staking Base	LF	37,868.000	37,035.000	833.000
0150	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	192.000		192.000
0152	650.6000	Construction Staking Pipe Culverts	EACH	12.000	12.000	

Estimate Of Quantities

					1560-02-70	1560-02-75
Line	Item	Item Description	Unit	Total	Qty	Qty
0154	650.8000	Construction Staking Resurfacing Reference	LF	37,035.000	37,035.000	
0156	650.9910	Construction Staking Supplemental Control (project) 01. 1560-02-70	LS	1.000	1.000	
0158	650.9920	Construction Staking Slope Stakes	LF	833.000		833.000
0160	690.0150	Sawing Asphalt	LF	263.000	217.000	46.000
0162	690.0250	Sawing Concrete	LF	43.000	43.000	
0164	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	2,400.000	2,400.000	
0166	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	990.000	990.000	
0168	SPV.0090	Special 01. Concrete Curb and Gutter Cure and Seal Treatment	LF	192.000		192.000
0170	SPV.0105	Special 01. Material Transfer Vehicle	LS	1.000	1.000	
0172	SPV.0105	Special 02. Temporary Sand Bag Dike	LS	1.000	1.000	

1560-02-70

REMOVING PAVEMENT

REMOVING OLD STRUCTURE (STA 600+85)

CATEGORY	STATION	LOCATION	203.0200 LS	REMARKS
0010	600+85	ML	1	8' PLATE PIPE ARCH
TOTAL 0010			1	

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 SY
0010	314+54	-	574+28	USH 63	69264
0010	577+04	-	687+65	USH 63	29496
TOTAL 0010					98760

REMOVING ASPHALTIC SURFACE

REMOVING ASPHALTIC SURFACE BUTT JOINTS

CATEGORY	STATION	TO	STATION	LOCATION	204.0110 SY	REMARKS
0010	314+54	-	570+00	ML	28	17031 SHOULDERS
0010	418+50			ML RT	28	16 RT PE
0010	423+45			ML RT	28	16 RT PE
0010	489+10			ML LT	17	9 LT PE
0010	509+25			ML RT	33	18 RT PE
0010	544+00	-	574+28	ML	27	8075 ASPHALTIC OVERLAY
0010	559+75			ML LT	27	15 LT PE
0010	570+00	-	574+84	ML	27	1076 SHOULDERS
0010	576+50	-	578+00	ML	27	333 SHOULDERS
0010	578+00	-	687+65	ML	27	7310 SHOULDERS
0010	633+00			ML LT	27	15 LT PE
0010	636+75			ML LT	57	32 LT PE
TOTAL 0010					33945	

CATEGORY	STATION	LOCATION	204.0115 SY	REMARKS
0010	315+34	ML LT	22	WINDROSE LN
0010	315+69	ML RT	20	PARK LN
0010	373+50	ML LT	19	ELZA SQUARE RD
0010	376+59	ML RT	19	J PARK
0010	397+50	ML RT	19	RISBERG RD
0010	398+00	ML LT	22	GORSKI RD
0010	418+53	ML LT	19	GORSKI RD
0010	458+72	ML RT	22	PHIPPS RD
0010	472+00	ML LT	16	STONE RD
0010	478+20	ML LT	18	STONE RD
0010	528+33	ML LT	20	NELSON LAKE RD
0010	569+68	ML RT	19	OLD HWY 63
0010	588+10	ML LT	17	THOMAS RD
0010	611+13	ML LT	19	WEINGARTEN RD
0010	642+35	ML RT	20	MOSQUITO BROOK RD
0010	642+51	ML LT	21	PFEIFER RD
TOTAL 0010			310	

REMOVING CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	204.0150 LF	REMARKS
0010	34618	-	34650	RT	35	HOSPITAL RD (E)
0010	34649	-	34682	LT	36	HOSPITAL RD (W)
TOTAL 0010					71	

REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 LF
0010	527+01	-	528+24	LT	181
0010	524+50	-	531+29	RT	679
0010	529+00	-	533+24	LT	520
TOTAL 0010					1380

FINISHING ROADWAY (1560-02-70/73)

CATEGORY	STATION	TO	STATION	LOCATION	213.0100 EACH
0010	31454	-	68765	USH 63	1
TOTAL 0010					1

BASE COURSE SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	CY	BASE	BASE	REMARKS
						AGGREGATE	AGGREGATE	
						DENSE 3/4- INCH 305.0110	DENSE 1 1/4- INCH 305.0120	
0010	314+54	-	317+56	ML	26	51	406	
0010	317+56	-	342+77	ML	215	430	2859	
0010	342+77	-	376+59	ML	288	576	3836	
0010	376+59	-	397+50	ML	178	356	2372	
0010	397+50	-	458+72	ML	522	1043	6944	
0010	458+72	-	528+33	ML	593	1186	7896	
0010	528+33	-	574+28	ML	391	783	5212	
0010	522+98	-	533+14	ML RT		0	192	NELSON LAKE RD; BG EXTRA SHLDR WIDTH
0010	523+78	-	527+98	ML LT		0	79	NELSON LAKE RD; BG EXTRA SHLDR WIDTH
0010	529+31	-	534+12	ML LT		0	91	NELSON LAKE RD; BG EXTRA SHLDR WIDTH
0010	570+18	-	574+28	ML		0	334	BRIDGE; BG EXTRA SHLDR WIDTH
0010	577+04	-	578+32	ML		0	151	BRIDGE; BG EXTRA SHLDR WIDTH
0010	577+04	-	611+13	ML	290	581	3867	
0010	611+13	-	642+35	ML	266	532	3541	
0010	642+35	-	687+65	ML	386	772	5138	
0010	315+34			SR LT	5	10		WINDROSE LN
0010	315+69			SR RT	5	9		PARK LN
0010	363+95			PE LT	5	10		
0010	373+50			SR LT	5	11		ELZA SQUARE RD
0010	376+59			SR RT	6	11		J PARK
0010	386+55			PE LT	5	10		
0010	397+50			SR RT	7	13		RISBERG RD
0010	398+00			SR LT	6	12		GORSKI RD
0010	418+53			SR LT	6	11		GORSKI RD
0010	418+50			PE RT	3	6		
0010	438+00			PE RT	5	10		
0010	442+40			PE LT	3	5		
0010	447+00			PE LT	5	10		
0010	450+40			PE RT	7	14		
0010	454+10			PE RT	5	10		
0010	458+72			SR RT	7	15		PHIPPS RD
0010	472+00			SR LT	4	7		STONE RD
0010	472+00			PE RT	4	8		
0010	476+00			PE RT	5	10		
0010	478+20			SR LT	4	7		STONE RD
0010	483+10			PE LT	5	11		
0010	489+10			PE LT	3	6		
0010	492+00			PE RT	6	12		
SUBTOTAL 0010						6539	42917	

BASE COURSE SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	CY	BASE	BASE	REMARKS
						AGGREGATE	AGGREGATE	
						DENSE 3/4- INCH 305.0110	DENSE 1 1/4- INCH 305.0120	
0010	493+00			PE LT	6	11		
0010	494+00			PE RT	10	20		
0010	500+80			PE RT	4	8		
0010	503+50			PE LT	6	12		
0010	506+25			PE LT	6	13		
0010	507+75			PE RT	5	10		
0010	509+25			PE RT	3	7		
0010	513+61			PE LT	5	10		
0010	520+90			PE RT	5	11		
0010	521+60			PE LT	6	12		
0010	528+33			SR LT	9	18		NELSON LAKE RD
0010	532+75			PE RT	8	15		
0010	541+15			PE RT	5	11		
0010	544+00			PE LT	5	10		
0010	551+90			PE RT	5	10		
0010	559+75			PE LT	3	6		
0010	568+83			PE LT	5	10		
0010	569+68			SR RT	9	18		OLD HWY 63
0010	577+90			PE RT	6	13		
0010	588+10			SR LT	5	10		THOMAS RD
0010	592+20			PE RT	7	13		
0010	611+13			SR LT	6	13		WEINGARTEN RD
0010	633+00			PE RT	8	15		
0010	633+00			CE LT	3	6		
0010	636+75			TRAIL RT	3	6		
0010	636+75			CE LT	4	8		
0010	642+35			SR RT	8	15		MOSQUITO BROOK RD
0010	642+51			SR LT	8	16		PFEIFER RD
0010	664+10			PE LT	6	12		
0010	669+24			PE LT	5	10		
0010	683+90			PE LT	6	12		
0010	684+50			PE RT	5	10		
TOTAL 0010						6909	42917	

1560-02-70

ASPHALTIC CONCRETE PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	TACK COAT 455.0605 GAL	HMA PAVEMENT 3 MT 58-28 S 460.6223 TON	HMA PAVEMENT 4 MT 58-34 H 460.6444 TON	ASPH. SURFACE DETOURS 465.0115 TON	ASPH. SURFACE DRIVEWAYS AND FIELD ENTRANCES 465.0120 TON	REMARKS
0010	0+00	-	347+00	CTH 00				4731		
0010	314+54	-	317+56	ML	64	179	198			
0010	317+56	-	342+77	ML	403	1129	1333			
0010	342+77	-	376+59	ML	541	1515	1789			
0010	376+59	-	397+50	ML	335	937	1106			
0010	397+50	-	458+72	ML	980	2743	3238			
0010	458+72	-	528+33	ML	1114	3119	3682			
0010	528+33	-	574+28	ML	735	2059	2430			
0010	522+98	-	533+14	ML RT	0	0	79			NELSON LAKE RD; BG EXTRA SHLDR WIDTH
0010	523+78	-	527+98	ML LT	0	0	33			NELSON LAKE RD; BG EXTRA SHLDR WIDTH
0010	529+31	-	534+12	ML LT	0	0	37			NELSON LAKE RD; BG EXTRA SHLDR WIDTH
0010	570+18	-	574+28	ML LT & RT	0	0	32			BRIDGE: BG EXTRA SHLDR WIDTH
0010	577+04	-	578+32	MT LT & RT	0	0	10			BRIDGE: BG EXTRA SHLDR WIDTH
0010	577+04	-	611+13	ML	545	1527	1803			
0010	611+13	-	642+35	ML	500	1399	1651			
0010	642+35	-	687+65	ML	725	2029	2396			
0010	315+34			SR LT	15	14	11			WINDROSE LN
0010	315+69			SR RT	16	15	11			PARK LN
0010	373+50			SR LT	14	13	10			ELZA SQUARE RD
0010	376+59			SR RT	15	14	10			J PARK
0010	397+50			SR RT	18	17	14			RISBERG RD
0010	398+00			SR LT	20	18	15			GORSKI RD
0010	418+53			SR LT	16	15	11			GORSKI RD
0010	418+50			PE RT	5	0	0		12	
0010	442+40			PE LT	3	0	0		6	
0010	458+72			SR RT	20	19	15			PHIPPS RD
0010	472+00			SR LT	8	7	5			STONE RD
0010	478+20			SR LT	9	8	6			STONE RD
0010	489+10			PE LT	4	0	0		9	
0010	509+25			PE RT	7	0	0		14	
0010	528+33			SR LT	31	29	24			NELSON LAKE RD
0010	559+75			PE LT	6	0	0		12	
0010	569+68			SR RT	30	28	24			OLD HWY 63
0010	588+10			SR LT	12	11	9			THOMAS RD
0010	611+13			SR LT	13	12	9			WEINGARTEN RD
0010	633+00			CE LT	6	0	0		12	
0010	636+75			CE LT	7	0	0		16	
0010	642+35			SR RT	25	23	18			MOSQUITO BROOK RD
0010	642+51			SR LT	25	23	18			PFEIFER RD
0010	1005+33			1009+58	117	327	218			HOSPITAL RD (W)
0010	2004+68			2008+76	95	267	178			HOSPITAL RD (E)
TOTAL 0010					6476	17496	20422	4731	82	

INCENTIVE IRI RIDE

CATEGORY	STATION	TO	STATION	LOCATION	440.4410 DOL
0010	314+54	-	574+28	USH 63	12987
0010	577+04	-	687+65	USH 63	5531
TOTAL 0010					18518

REHEATING HMA PAVEMENT LONGITUDINAL JOINTS

CATEGORY	STATION	TO	STATION	LOCATION	460.4110.S LF
0010	314+54	-	574+28	USH 63	51948
0010	577+04	-	687+65	USH 63	22122
TOTAL 0010					74070

ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL

CATEGORY	STATION	TO	STATION	LOCATION	465.0425 LF
0010	314+54	-	574+28	USH 63	51948
0010	577+04	-	687+65	USH 63	22122
TOTAL 0010					74070

ASPHALT CENTER LINE RUMBLE STRIPS 2-LANE RURAL

CATEGORY	STATION	TO	STATION	LOCATION	465.0475 LF
0010	314+54	-	574+28	USH 63	25974
0010	577+04	-	687+65	USH 63	11061
TOTAL 0010					37035

CULVERT SUMMARY

CATEGORY	STATION	LOCATION	REMOVING SMALL CULVERT PIPES 203.0100	CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH 522.0124	CULVERT PIPE REINFORCED CONCRETE CLASS III 30-INCH 522.0130	CULVERT PIPE REINFORCED CONCRETE CLASS III 60-INCH 522.0160	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH 522.1024	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH 522.1030	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 60- INCH 522.1060	MARKERS CULVERT END 633.5200
			EACH	LF	LF	LF	EACH	EACH	EACH	EACH
0010	361+00	ML	1	64			2			2
0010	366+00	ML	1	100			2			2
0010	435+90	ML	1		140			2		2
0010	437+22	ML	1	130			2			2
0010	498+21	ML	1	158			2			2
0010	600+85	ML	--			210			4	4
0010	607+15	ML	1	100			2			2
0010	612+15	ML	1	100			2			2
0010	625+65	ML	1	90			2			2
0010	639+68	ML	1		112			2		2
0010	672+17	ML	1	90			2			2
TOTAL 0010			10	832	252	210	16	4	4	24

3

3

STEEL PLATE BEAM GUARD

RIPRAP MEDIUM								STEEL PLATE BEAM	STEEL PLATE BEAM	STEEL PLATE BEAM
								GUARD CLASS A	GUARD SHORT RADIUS	GUARD ENERGY
								614.0305	614.0345	614.0370
CATEGORY	STATION	LOCATION	606.0200	CATEGORY	STATION	TO	STATION	LOCATION	LF	EACH
0010	600+85	ENDWALLS L & R	11	0010	524+25	-	524+75	USH 63 - L		1
				0010	524+75	-	528+00	USH 63 - L	325	
				0010	528+00	-	528+32	NW QUAD: USH 63/NELSON LK RD		40
				0010	6+35	-	6+60	NELSON LK RD - R	25	
		TOTAL 0010	11	0010	5+37	-	5+62	NELSON LK RD - L	25	
				0010	528+90	-	529+30	NE QUAD: USH 63/NELSON LK RD		96
				0010	529+30	-	533+13	USH 63 - L	383	
				0010	533+13	-	533+63	USH 63 - L		1
TOTAL 0010								758	136	2

ADJUSTING STEEL PLATE BEAM GUARD

MGS GUARDRAIL

614.0400						MGS GUARDRAIL 3 K					MGS GUARDRAIL	
CATEGORY	STATION	TO	STATION	LOCATION	LF						614.2330	614.2610
						CATEGORY	STATION	TO	STATION	LOCATION	LF	TERMINAL EAT
0010	570+15	-	574+73	ML RT	458	0010	523+50	-	524+00	USH 63 - R	760	1
0010	573+88	-	574+73	ML LT	85		524+00	-	531+60	USH 63 - R		1
0010	576+42	-	577+64	ML RT	122		0010	531+60	-	532+10		
0010	576+42	-	577+52	ML LT	110			TOTAL 0010				760

MAINTENANCE AND REPAIR OF HAUL ROADS (1560-02-70)

618.0100				
CATEGORY	STATION	TO	STATION	LOCATION
0010	314+54	-	687+65	USH 63
				TOTAL 0010

3

1560-02-70

MOBILIZATION

CATEGORY	STATION	TO	STATION	LOCATION	619.1000 EACH
0010	314+54	-	687+65	PROJECT	1
TOTAL 0010					1

EROSION BALES

CATEGORY	LOCATION	628.1104 EACH
0010	UNDISTRIBUTED	30
TOTAL 0010		30

WATER

CATEGORY	STATION	TO	STATION	LOCATION	624.0100 MGAL
0010	314+54	-	687+65	USH 53	598
TOTAL 0010					598

LANDSCAPING SUMMARY

CATEGORY	LOCATION	SALVAGED TOPSOIL 625.0500 SY	MULCHING 627.0200 SY	FERTILIZER TYPE B 629.0210 CWT	SEEDING MIXTURE NO. 20 630.0120 LB	REMARKS
0010	CULVERT REPLACEMENTS	3349	3349	2.1	90	11 REPLACEMENTS
TOTAL 0010		3349	3349	2.1	90	

SILT FENCE SUMMARY

CATEGORY	LOCATION	SILT FENCE 628.1504 LF	SILT FENCE MAINTENANCE 628.1520 LF	REMARKS
0010	NAMEKAGON RIVER BRIDGE	240	240	NW & SW QUADRANT
0010	NAMEKAGON RIVER BRIDGE	240	240	NE & SE QUADRANT
0010	MCDERMOTT CREEK	133	133	NORTH SIDE
0010	MCDERMOTT CREEK	115	115	SOUTH SIDE
0010	CULVERT REPLACEMENTS	1100	1100	11 REPLACEMENTS
TOTAL 0010		1828	1828	

MOBILIZATIONS EROSION CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	628.1905 EACH
0010	314+54	-	687+65	USH 63	10
0010	1005+33	-	1009+72	HOSPITAL RD (W)	2
0010	2004+68	-	2008+94	HOSPITAL RD (E)	2
TOTAL 0010					14

MOBILIZATIONS EMERGENCY EROSION CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	628.1910 EACH
0010	314+54	-	687+65	USH 63	5
0010	1005+33	-	1009+72	HOSPITAL RD (W)	1
0010	2004+68	-	2008+94	HOSPITAL RD (E)	1
TOTAL 0010					7

FIELD OFFICE TYPE C

CATEGORY	STATION	TO	STATION	LOCATION	642.5201 EACH
0010	314+54	-	687+65	USH 63	1
TOTAL 0010					1

3

1560-02-70

PERMANENT SIGNING OVERVIEW

					POSTS WOOD					REMOVING	REMOVING		
					4X6-INCH X	SIGNS TYPE II	SIGNS TYPE II			SIGNS TYPE	SMALL SIGN		
					16-FT	REFLECTIVE H	REFLECTIVE F			II	SUPPORTS		
					634.0616	637.2210	637.2230			638.2602	638.3000		
CATEGORY	SIGN #	STATION	LOCATION	SIGN CODE	EACH	SF	SF	SIZE	EACH	EACH	MESSAGE	REMARKS	
MAINLINE PERMAMENT SIGNING													
0010	1	315+00	LT	R1-1	1	5.18		30"X30"	1	1	STOP	ON WINDROSE LN	
0010	2	316+00	RT	R1-1	1	5.18		30"X30"	1	1	STOP	ON PARK LN	
0010	3	317+00	LT	J1-2	1	13.00		48"X39"	1	1	LINE 1: JCT JCT		
0010											LINE 2: STH 27 STH 77		
0010	4	319+00	LT	R2-1	1	5.00		24"X30"	1	1	SPEED LIMIT 45		
0010	5	319+95	RT	R2-1	1	5.00		24"X30"	1	1	SPEED LIMIT 55		
0010	6	319+95	RT	W14-3			6.00	48"X36"	1		NO PASSING ZONE		
0010	7	320+25	LT	SPECIAL	2	10.00		60"X24"	1	2	HAYWARD POPULATION 2318		
0010	8	321+50	LT	R10-64				30"X36"			NO ENGINE BREAKING EXCEPT IN EMERGENCY		
0010	9	321+85	RT	R5-53-A				18"X24"	1	1	BUCKLE UP IT'S THE LAW		
0010	10	324+00	LT	W3-5	1		9.00	36"X36"	1	1	SPEED LIMIT 45 AHEAD	REMOVAL AT STA 325-80	
0010	11	335+65	RT	J12-1				24"X45"	1	1	HOSPITAL LEFT TURN ARROW		
0010	12	339+70	RT	D1-60	2	11.00		66"X24"	1	2	HOSPITAL RD EAST/WEST ARROWS	REMOVE EXISTING HOSPITAL RD	
0010	13	340+00	RT	J12-1	1	7.50		24"45"			HOSPITAL LEFT TURN ARROW		
0010	14	342+00	RT	D9-5R	1	11.50		46"X36"	1	1	AIRPORT RIGHT ARROW		
0010	15	342+25	LT	R1-1	1	6.25		30"X30"	1	1	STOP	REMOVAL AT STA 34590	
0010	16	344+00	LT	J4-1				24"X36"	1	1	SOUTH USH 63		
0010	17	345+60	RT	J13-1				24"X45"	1	1	HOSPITAL RD LEFT ARROW		
0010	18	345+75	LT	J13-1	1	7.50		24"X45"			HOSPITAL RD RIGHT ARROW		
0010	19	347+55	LT	J13-1				24"X45"	1	1	HOSPITAL RD RIGHT ARROW		
0010	20	346+35	RT	R1-1	1	5.18		30"X30"	1	1	STOP	ON HOSPITAL RD	
0010	21	349+00	RT	J4-1				24"X36"	1	1	NORTH USH 63		
0010	22	354+00	LT	D9-52L	1	11.50		46"X36"	1	1	HAYWARD MUNICIPAL AIRPORT LEFT ARROW	REMOVAL AT STA 354+00	
0010	23	354+50	LT	D1-60	2	16.25		66"X24"	1	2	HOSPITAL RD EAST/WEST ARROWS	REMOVAL AT STA 352+00	
0010	24	360+50	LT	J13-1	1	7.50		24"X45"	1	1	HOSPITAL RD RIGHT TURN ARROW		
0010	25	373+15	LT	R1-1	1	5.18		30"X30"	1	1	STOP	ON ELZA SQUARE RD	
0010	26	376+85	RT	R1-1	1	5.18		30"X30"	1	1	STOP	ON J PARK	
0010	27	390+45	RT	D1-2	2	16.25		78"X30"	1	2	LINE 1: LEFT ARROW GORSKI RD	REMOVE EXISTING RISBERG RD	
0010											LINE 2: RISBER RD RIGHT ARROW		
0010	28	392+50	LT	W14-3	1		6.00	48"X36"	1	1	NO PASSING ZONE		
0010	29	397+50	LT	I55-56	1	7.50		30"X36"	1	1	ADOPT A HIGHWAY HAYWARD AREA ROTARY CLUB		
0010	30	397+65	RT	R1-1	1	5.18		30"X30"	1	1	STOP	ON RISBERG RD	
0010	31	397+90	LT	R1-1	1	5.18		30"X30"	1	1	STOP	ON GORSKI RD	
0010	32	398+15	RT	I55-56	1	7.50		30"X36"	1	1	ADOPT A HIGHWAY HAYWARD LIONS CLUB		
0010	33	405+00	LT	D1-2	2	16.25		78"X30"	1	2	LINE 1: LEFT ARROW RISBERG RD	REMOVE EXISTING RISBERG RD	
0010											LINE 2: GORSKI RD RIGHT ARROW		
0010	34	411+55	RT	D1-1	2	7.50		72"X15"	1	2	LEFT ARROW GORSKI RD		
0010	35	418+30	LT	R1-1	1	5.18		30"X30"	1	1	STOP	ON GORSKI RD	
0010	36	425+60	LT	D1-1	2	7.50		72"X15"	1	2	GORSKI RD RIGHT ARROW		
0010	37	436+10	RT	W14-3	1		6.00	48"X36"	1	1	NO PASSING ZONE		
0010	38	452+45	RT	D1-1	2	7.50		72"X15"	1	2	PHIPPS RD RIGHT ARROW		
0010	39	458+65	LT	SPECIAL					1	1	SAWYER CO SKIING/HIKING TRAIL LEFT ARROW	REMOVE EXISTING	
0010	40	459+00	RT	R1-1	1	5.18		30"X30"	1	1	STOP	ON PHIPPS RD	
SUBTOTAL 0010					39	229	27		37	44			

1560-02-70

PERMANENT SIGNING OVERVIEW

					POSTS WOOD			REMOVING		REMOVING		
					4X6-INCH X	SIGNS TYPE II	SIGNS TYPE II	SIGNS TYPE		SMALL SIGN		
					16-FT	REFLECTIVE H	REFLECTIVE F	II		SUPPORTS		
					634.0616	637.2210	637.2230	638.2602		638.3000		
CATEGORY	SIGN #	STATION	LOCATION	SIGN CODE	EACH	SF	SF	SIZE	EACH	EACH	MESSAGE	REMARKS
MAINLINE PERMANENT SIGNING CONTINUED												
0010	41	465+00	RT	D1-1	2	7.50		72"X15"	1	2	LEFT ARROW STONE RD	
0010	42	465+65	LT	D1-1	2	7.50		72"X15"	1	2	LEFT ARROW PHIPPS RD	
0010	43	471+65	LT	R1-1	1	5.18		30"X30"	1	1	STOP	ON STONE RD
0010	44	477+85	LT	R1-1	1	5.18		30"X30"	1	1	STOP	ON STONE RD
0010	45	485+15	LT	D1-1	2	7.50		72"X15"	1	2	STONE RD RIGHT ARROW	
0010	46	486+60	LT	W14-3	1			48"X36"	1	1	NO PASSING ZONE	
0010	47	493+00	RT	W11-6	1			30"X30"	1	1	SNOWMOBILE CROSSING	
0010	48	522+00	RT	D1-1	2	10.63		102"X15"	1	2	LEFT ARROW NELSON LAKE RD	
0010	49	527+25	LT	I55-56	1	7.50		30"X36"	1	1	ADOPT A HIGHWAY HAYWARD LIONS CLUB	
0010	50	527+70	RT	W14-3	1			48"X36"	1	1	NO PASSING ZONE	
0010	51	528+25	LT	R1-1	1	5.18		30"X30"	1	1	STOP	ON NELSON LAKE RD
0010	52	530+60	RT	I55-56	1	7.50		30"X36"	1	1	ADOPT A HIGHWAY VENTURES UNLIMITED INC	
0010	53	533+40	LT	W14-3	1			48"X36"	1	1	NO PASSING ZONE	
0010	54	535+40	LT	D1-1	2	10.63		102"X15"	1	1	NELSON LAKE RD RIGHT ARROW	
0010	55	556+30	RT	D7-56R	1	12.00		48"X36"	1	2	CANOE LANDING	REMOVE NPS PHIPPS LANDING
0010	56	558+50	RT	W11-6	1	6.25		30"X30"	1	1	SNOWMOBILE CROSSING	
0010	57	560+00	RT	S3-1	1			30"X30"	1	1	SCHOOL BUS STOP AHEAD	
0010	58	569+85	RT	R1-1	1	6.25		30"X30"	1	1	STOP	ON OLD HWY 63
0010	59	570+45	RT	W14-3	1			48"X36"	1	1	NO PASSING ZONE	
0010	60	571+50	LT	I55-56	1	7.50		30"X36"	1	1	ADOPT A HIGHWAY VENTURES UNLIMITED INC	
0010	61	573+80	LT	W14-3	1			48"X36"	1	1	NO PASSING ZONE	
0010	62	574+50	RT	I3-1	1	10.63		102"X15"	1	1	NAMEKAGON RIVER	
0010	63	574+90	LT	W5-52L	1			12"X36"	1	1	BRIDGE HASH MARKS	
0010	64	574+95	RT	W5-52R	1			12"X36"	1	1	BRIDGE HASH MARKS	
0010	65	576+25	LT	W5-52R	1			12"X36"	1	1	BRIDGE HASH MARKS	
0010	66	576+35	RT	W5-52L	1			12"X36"	1	1	BRIDGE HASH MARKS	
0010	67	576+75	LT	I3-1	1	10.63		102"X15"	1	1	NAMEKAGON RIVER	
0010	68	585+90	LT	D7-56L	1	12.00		48"X36"	1	2	CANOE LANDING	REMOVE NPS PHIPPS LANDING
0010	69	587+00	LT	W11-6	1			30"X30"	1	1	SNOWMOBILE CROSSING	
0010	70	587+90	LT	R1-1	1	6.25		30"X30"	1	1	STOP	ON THOMAS RD
0010	71	600+70	RT	W14-3	1			48"X36"	1	1	NO PASSING ZONE	
0010	72	604+00	RT	D1-1	2	10.00		96"X15"	1	2	LEFT ARROW WEINGARTEN RD	
0010	73	610+95	LT	R1-1	1	6.25		30"X30"	1	1	STOP	ON WEINGARTEN RD
0010	74	618+15	LT	D1-1	2	10.00		96"X15"	1	2	WEINGARTEN RD RIGHT ARROW	
0010	75	632+75	LT	R1-1	1	6.25		30"X30"	1	1	STOP	ON WAYSIDE INN DRIVEWAY
0010	76	635+30	RT	D1-2	2			120"X30"			LINE 1: LEFT ARROW PFEIFER RD	
0010											LINE 2: MOSQUITO BROOK RD RIGHT ARROW	
0010	77	636+50	LT	R1-1	1	5.18		30"X30"	1	1	STOP	ON WAYSIDE INN DRIVEWAY
0010	78	642+35	LT	R1-1	1	5.18		30"X30"	1	1	STOP	ON PFEIFER RD
0010	79	642+40	RT	R1-1	1	5.18		30"X30"	1	1	STOP	ON MOSQUITO BROOK RD
0010	80	643+05	RT	I55-56	1	7.50		30"X36"	1	1	ADOPT A HIGHWAY CALVARY BAPTIST CHURCH OF THE NORTHWOODS	
0010	81	649+65	LT	D1-2	2	25.00		120"X30"	1	2	LINE 1: RIGHT ARROW MOSQUITO BROOK RD	
0010											LINE 2: PFEIFER RD LEFT ARROW	
0010	82	664+20	RT	W8-1-A					1	1	BUMPS	
0010	83	682+50	LT	W8-1-A					1	1	BUMPS	
SUBTOTAL 0010					50	226	65		42	51		

1560-02-70

PERMANENT SIGNING OVERVIEW

					POSTS WOOD			REMOVING		REMOVING			
					4X6-INCH X	SIGNS TYPE II	SIGNS TYPE II	SIGNS TYPE		SMALL SIGN			
					16-FT	REFLECTIVE H	REFLECTIVE F	II		SUPPORTS			
					634.0616	637.2210	637.2230	638.2602		638.3000			
CATEGORY	SIGN #	STATION	LOCATION	SIGN CODE	EACH	SF	SF	SIZE	EACH	EACH	MESSAGE	REMARKS	
DETOUR ROUTE: CTH 00 PERMANENT SIGNING													
0010	1	0+50	LT	R1-1	1	7.46		36"X36"	1	1	STOP		
0010	2	2+00	RT	R2-1	1	5.00		24"X30"	1	1	SPEED LIMIT 55		
0010	3	8+00	LT	W3-1	1		9.00	36"X36"	1	1	STOP AHEAD		
0010	4	13+35	RT	W14-3	1		5.56	48"X36"	1	1	NO PASSING ZONE		
0010	5	35+35	LT	W14-3	1		5.56	48"X36"	1	1	NO PASSING ZONE		
0010	6	35+60	RT	W2-2	1		6.25	30"X30"	1	1	SIDE ROAD RIGHT ANGLE		
0010	7	43+30	RT	R1-1	1	6.25		30"X30"	1	1	STOP	ON PADDOCK RD	
0010	8	56+50	RT	W14-3	1		5.56	48"X36"	1	1	NO PASSING ZONE		
0010	9	89+60	RT	W3-1	1		9.00	36"X36"			STOP AHEAD		
0010	10&11	89+60	RT	W1-1L & W13-1					2	1	ROAD TURNS LEFT, 15 MPH	REMOVE EXISTING	
0010	12	96+60	RT	R1-1	1	7.46		36"X36"	1	1	STOP		
0010				R1-3P		0.75		18"X6"			ALL WAY		
0010	13	97+10	RT	R1-1	1	7.46		36"X36"	1	1	STOP	ON CLEAR LAKE RD	
0010				R1-3P		0.75		18"X6"			ALL WAY		
0010	14	97+60	RT	R1-1	1	7.46		36"X36"	1	1	STOP	ON TELEMAR RD	
0010				R1-3P		0.75		18"X6"			ALL WAY		
0010	15	97+60	LT	R1-1	1	7.46		36"X36"	1	1	STOP		
0010				R1-3P		0.75		18"X6"			ALL WAY		
0010	16	97+60	LT	R1-10-P					1		EXCEPT RIGHT TURN	REMOVE EXISTING	
0010	17	102+00	LT	W1-1R					1	1	ROAD TURNS RIGHT	REMOVE EXISTING	
0010	18	103+10	RT	W11-2	1		6.25	30"X30"	1	1	PEDESTRIAN CROSSING		
0010	19	103+10	RT	W16-9P			2.00	24"X12"			AHEAD		
0010	20	104+60	LT	W3-1	1		9.00	36"X36"	1	1	STOP AHEAD		
0010	21	118+10	RT	W1-1R	1		9.00	36"X36"	1	1	ROAD TURNS RIGHT		
0010	22	118+10	RT	W13-1			2.25	18"X18"			15 MPH		
0010	23&28	123+30	LT	(2) W1-8	1		6.00	18"X24"	2	1	CHEVRON		
0010	24&29	123+80	LT	(2) W1-8	1		6.00	18"X24"	2	1	CHEVRON		
0010	27	124+15	LT	R1-1	1	6.25		30"X30"	1	1	STOP	ON PEDERSON RD	
0010	25&30	124+50	LT	(2) W1-8	1		6.00	18"X24"	2	1	CHEVRON		
0010	26&31	125+00	LT	(2) W1-8	1		6.00	18"X24"	2	1	CHEVRON		
0010	32	129+50	LT	W1-1L	1		9.00	36"X36"	1	1	ROAD TURNS LEFT		
0010	33	129+50	LT	W13-1			2.25	18"X18"			15 MPH		
0010	34	136+60	RT	W1-5L	1		6.25	30"X30"	1	1	ROAD SHARP CURVES		
0010	35	136+60	RT	W57-51			3.13	30"X15"			NEXT 2 MILES		
0010	36	141+60	RT	W1-4L	1		6.25	30"X30"	1	1	ROAD CURVES AHEAD		
0010	37	141+60	RT	W13-1			2.25	18"X18"			30 MPH		
0010	38&44	148+00	RT	(2) W1-8	1		6.00	18"X24"	2	1	CHEVRON		
0010	39&45	148+80	RT	(2) W1-8	1		6.00	18"X24"	2	1	CHEVRON		
0010	40&46	149+60	RT	(2) W1-8	1		6.00	18"X24"	2	1	CHEVRON		
0010	41&47	150+40	RT	(2) W1-8	1		6.00	18"X24"	2	1	CHEVRON		
0010	42&48	151+20	RT	(2) W1-8	1		6.00	18"X24"	2	1	CHEVRON		
0010	43&49	152+10	RT	(2) W1-8	1		6.00	18"X24"	2	1	CHEVRON		
0010	50&51	155+00	LT	W1-2R & W13-1					2	1	ROAD CURVES RIGHT, 30MPH	REMOVE EXISTING	
SUBTOTAL 0010					30	58	159		45	32			

1560-02-70

PERMANENT SIGNING OVERVIEW

				POSTS WOOD				REMOVING		REMOVING			
				4X6-INCH X		SIGNS TYPE II		SIGNS TYPE II		SIGNS TYPE		SMALL SIGN	
				16-FT		REFLECTIVE H		REFLECTIVE F		II		SUPPORTS	
				634.0616		637.2210		637.2230		638.2602		638.3000	
CATEGORY	SIGN #	STATION	LOCATION	SIGN CODE	EACH	SF	SF	SIZE	EACH	EACH	MESSAGE	REMARKS	
DETOUR ROUTE: CTH 00 PERMANENT SIGNING CONTINUED													
0010	52	156+50	LT	W1-6	1			8.00	48"X24"	1	1	ONE-DIRECTION LARGE ARROW	
0010	53	158+50	LT	W1-6	1			8.00	48"X24"	1	1	ONE-DIRECTION LARGE ARROW	
0010	54	163+40	LT	W1-4R	1			6.25	30"X30"	1	1	ROAD CURVES AHEAD	
0010	55	163+40	LT	W13-1				2.25	18"X18"	1		30 MPH	
0010	56	166+00	RT	SPECIAL							CAUTION SKI TRAIL		EXISTING TO REMAIN
0010	57	166+80	LT	SPECIAL							CAUTION SKI TRAIL		EXISTING TO REMAIN
0010	58	193+40	LT	W11-6				30"X30"			SNOWMOBILE CROSSING		EXISTING TO REMAIN
0010	59	199+50	LT	R1-1	1	6.25		30"X30"	1	1	STOP		ON JANET RD
0010	60	200+00	RT	R1-1	1	6.25		30"X30"	1	1	STOP		ON JANET RD
0010	61	210+60	LT	R1-1	1	6.25		30"X30"	1	1	STOP		PHIPPS FIRE LN
0010	62	211+00	RT	W2-2	1		6.25	30"X30"	1	1	SIDE ROAD RIGHT ANGLE		
0010	63	229+50	RT	R1-1	1	6.25		30"X30"	1	1	STOP		ON COUGAR LN
0010	64	234+40	LT	W1-5R	1		6.25	30"X30"	1	1	ROAD SHARP CURVES		
0010	65	234+40	LT	W57-51	1		3.13	30"X15"	1	1	NEXT 2 MILES		
0010	66	237+60	RT	W1-2R	1		6.25	30"X30"	1	1	ROAD CURVES RIGHT		
0010	67	237+60	RT	W13-1			2.25	18"X18"			40 MPH		
0010	68	241+00	LT	W1-6	1		8.00	48"X24"	1	1	ONE-DIRECTION LARGE ARROW		
0010	69	241+70	LT	R1-1	1	6.25		30"X30"	1	1	STOP		ON N FRINDT RD
0010	70	243+00	LT	W1-6	1		8.00	48"X24"	1	1	ONE-DIRECTION LARGE ARROW		
0010	71	246+50	LT	W1-2L	1		6.25	30"X30"	1	1	ROAD CURVES LEFT		
0010	72	246+50	LT	W13-1			2.25	18"X18"			40 MPH		
0010	73	251+00	RT	W11-6				30"X30"			SNOWMOBILE CROSSING		EXISTING TO REMAIN
0010	74	251+00	LT	W2-2	1		6.25	30"X30"	1	1	SIDE ROAD RIGHT ANGLE		
0010	75	273+50	RT	W1-4R	1		6.25	30"X30"	1	1	ROAD CURVES AHEAD		
0010	76	273+50	RT	W13-1			2.25	18"X18"			35 MPH		
0010	77	275+10	RT	S3-1	1		9.00	36"X36"	1	1	SCHOOL BUS STOP AHEAD		
0010	78	277+00	LT	W11-6				30"X30"			SNOWMOBILE CROSSING		EXISTING TO REMAIN
0010	79	281+50	LT	W1-6	1		8.00	48"X24"	1	1	ONE-DIRECTION LARGE ARROW		
0010	80	288+50	LT	S3-1	1		9.00	36"X36"	1	1	SCHOOL BUS STOP AHEAD		
0010	81	291+40	LT	W1-6	1		8.00	48"X24"	1	1	ONE-DIRECTION LARGE ARROW		
0010	82	293+60	RT	W2-2	1		6.25	30"X30"	1	1	SIDE ROAD RIGHT ANGLE		
0010	83	296+60	RT	S3-1	1		9.00	36"X36"	1	1	SCHOOL BUS STOP AHEAD		
0010	84	300+50	RT	W1-6	1		8.00	48"X24"	1	1	ONE-DIRECTION LARGE ARROW		
0010	85	304+00	RT	R1-1	1	6.25		30"X30"	1	1	STOP		ON NORTHERN LIGHTS RD
0010	86	304+90	RT	W1-6	1		8.00	48"X24"	1	1	ONE-DIRECTION LARGE ARROW		
0010	87	306+90	LT	R1-1	1	6.25		30"X30"	1	1	STOP		ON HOLLYWOOD LN
0010	88	312+00	LT	W1-4R	1		6.25	30"X30"	1	1	ROAD CURVES AHEAD		
0010	89	312+00	LT	W13-1			2.25	18"X18"			35 MPH		
0010	90	319+00	RT	W14-3	1		5.56	48"X36"	1	1	NO PASSING ZONE		
SUBTOTAL 0010					29	44	167		30	29			

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PERMANENT SIGNING OVERVIEW													
		POSTS WOOD				SIGN TYPE II		SIGN TYPE II		REMOVING		REMOVING	
		4X6-INCH X				REFLECTIVE H		REFLECTIVE F		SIGN TYPE		SMALL SIGN	
		16-FT				637.2210		637.2230		II		SUPPORTS	
		634.0616				637.2210		637.2230		638.2602		638.3000	
CATEGORY	SIGN #	STATION	LOCATION	SIGN CODE	EACH	SF	SF	SIZE	EACH	EACH	MESSAGE	REMARKS	
DETOUR ROUTE: CTH 00 PERMANENT SIGNING CONTINUED													
0010	91	323+20	RT	R1-1	1	6.25		30"X30"	1	1	STOP	ON VALLEY RD	
0010	92	329+40	LT	R1-1	1	6.25		30"X30"	1	1	STOP	ON W OLD 00 RD	
0010	93	333+00	RT	W11-6				30"X30"			SNOWMOBILE CROSSING	EXISTING TO REMAIN	
0010	94	335+00	LT	W11-2	1		6.25	30"X30"	1	1	PEDESTRIAN CROSSING		
0010	95	335+00	LT	W16-9P			2.00	24"X12"			AHEAD		
0010	96	338+40	LT	W14-3	1		5.56	48"X36"	1	1	NO PASSING ZONE		
0010	97	339+10	RT	W3-1				36"X36"			STOP AHEAD	EXISTING TO REMAIN IF 750'-800' FROM STOP SIGN	
0010	98	344+50	LT	R2-1	1	5.00		24"X30"	1	1	SPEED LIMIT 55		
0010	99	346+70	RT	R1-1	1	7.46		36"X36"	1	1	STOP		
SUBTOTAL 0010					6	25	14		6	6			
TOTAL 0010					154	581	431		160	162			

1560-02-70

TRAFFIC CONTROL SUMMARY

SIGN				TRAFFIC CONTROL BARRICADES TYPE III 643.0420	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705	TRAFFIC CONTROL SIGNS 643.0900	TRAFFIC CONTROL COVERING SIGNS 643.0920					
CATEGORY	NO.	DETAIL	LOCATION	EACH	DAY	EACH	DAY	EACH	SIGN CODE	MESSAGE	SIZE	
D1												
0010	1	D1	DETOUR REASSURANCES			18	1206		M04-8	DETOUR	24"X12"	
0010									M3-1	NORTH	24"X12"	
0010									M1-4	USH 63	24"X24"	
0010	2	D1	DETOUR REASSURANCES			18	1206		M04-8	DETOUR	24"X12"	
0010									M3-3	SOUTH	24"X12"	
0010									M1-4	USH 63	24"X24"	
L1												
0010	1	L1	63 NB			1	67		W020-3-A	ROAD CLOSED AHEAD	48"X48"	
0010	2	L1	63 NB			1	67		W020-2A	DETOUR AHEAD	48"X48"	
0010	3	L1	63 NB			9	603		M04-4	TRUCK	24"X12"	
0010									M04-8	DETOUR	24"X12"	
0010									M3-1	NORTH	24"X12"	
0010									M1-4	USH 63	24"X24"	
0010									M05-1L	LEFT AHEAD	21"X21"	
0010									M04-8	DETOUR	24"X12"	
0010									M3-1	NORTH	24"X12"	
0010									M1-4	USH 63	24"X24"	
0010									M05-1R	RIGHT AHEAD	21"X21"	
0010	4	L1	63 NB			1	67		W020-3-D	ROAD CLOSED 500 FT	48"X48"	
0010	5	L1	63 NB			11	737		M04-4	TRUCK	24"X12"	
0010									M04-8	DETOUR	24"X12"	
0010									M3-1	NORTH	24"X12"	
0010									M1-4	USH 63	24"X24"	
0010									M06-1	LEFT ARROW	21"X21"	
0010									M04-8	DETOUR	24"X12"	
0010									M3-1	NORTH	24"X12"	
0010									M1-4	USH 63	24"X24"	
0010									M06-1	RIGHT ARROW	21"X21"	
0010									M1-4	USH 63	24"X24"	
0010									R10-61	ROAD OPEN TO BUSINESSES	60"X30"	
0010	6	L1	63 NB			11	737		M04-4	TRUCK	24"X12"	
0010									M04-8	DETOUR	24"X12"	
0010									M3-1	NORTH	24"X12"	
0010									M1-4	USH 63	24"X24"	
0010									M06-1	LEFT ARROW	21"X21"	
0010									M04-8	DETOUR	24"X12"	
0010									M3-1	NORTH	24"X12"	
0010									M1-4	USH 63	24"X24"	
0010									M06-1	RIGHT ARROW	21"X21"	
0010									M1-4	USH 63	24"X24"	
0010									R10-61	ROAD OPEN TO BUSINESSES	60"X30"	
SUBTOTAL 0010				0	0	70	4690	0				

NOTE: TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920
1 CYCLE OF COVERING

3

1560-02-70

TRAFFIC CONTROL SUMMARY

				TRAFFIC CONTROL BARRICADES TYPE III 643.0420		TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705		TRAFFIC CONTROL SIGNS 643.0900		TRAFFIC CONTROL COVERING SIGNS 643.0920					
CATEGORY	SIGN NO.	DETAIL	LOCATION	EACH	DAY	EACH	DAY	EACH	DAY	EACH		SIGN CODE	MESSAGE		SIZE
0010	7	L1	77 EB					3	201			M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010	8	L1	77 EB					1	67			G20-51	DETOUR NEXT 18 MILES		60"X24"
0010	9	L1	77 WB					4	268			M04-4	TRUCK		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												W020-2A	DETOUR AHEAD		48"X48"
0010	10	L1	77 WB					5	335			M04-4	TRUCK		24"X12"
0010												M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M06-1	UP ARROW		21"X21"
0010	11	L1	77WB					5	335			M04-4	TRUCK		24"X12"
0010												M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M06-1	UP ARROW		21"X21"
0010	12	L1	63 NB	1	67	2	134	2	134			R11-3	ROAD CLOSED 1/4 MILES AHEAD LOCAL TRAFFIC ONLY		60"X30"
0010												R10-61	ROAD OPEN TO BUSINESSES		60"X30"
0010	13	L1	63 NB	1	67	2	134	11	737			M04-4	TRUCK		24"X12"
0010												M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M06-1	LEFT ARROW		21"X21"
0010												M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M06-1	RIGHT ARROW		21"X21"
0010												M1-4	USH 63		24"X24"
0010												R10-61	ROAD OPEN TO BUSINESSES		60"X30"
0010	14	L1	63 NB	1	67	2	134	3	201			M04-4	TRUCK		24"X12"
0010												M4-9L	DETOUR LEFT ARROW		30"X24"
0010												M4-9R	DETOUR RIGHT ARROW		30"X24"
0010	15	L1	63 SB					9	603			M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M06-1	LEFT ARROW		21"X21"
0010												M04-4	TRUCK		24"X12"
0010												M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M06-1	RIGHT ARROW		21"X21"
SUBTOTAL 0010				3	201	6	402	43	2881	0					

NOTE: TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920
1 CYCLE OF COVERING

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1560-02-70

TRAFFIC CONTROL SUMMARY

				TRAFFIC CONTROL BARRICADES TYPE III 643.0420		TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705		TRAFFIC CONTROL SIGNS 643.0900		TRAFFIC CONTROL COVERING SIGNS 643.0920					
CATEGORY	SIGN NO.	DETAIL	LOCATION	EACH	DAY	EACH	DAY	EACH	DAY	EACH		SIGN CODE	MESSAGE	SIZE	
0010	16	L1	63 SB					9	603			M04-8	DETOUR	24"X12"	
0010												M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M05-1L	LEFT AHEAD	21"X21"	
0010												M04-4	TRUCK	24"X12"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M05-1R	RIGHT AHEAD	21"X21"	
0010	17	L1	77 EB					4	268			M04-4	TRUCK	24"X12"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010	18	L1	77 EB					1	67			G20-51	DETOUR NEXT 66 MILES	60"X24"	
0010	19	L1	77 WB					3	201			M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												W020-2A	DETOUR AHEAD	48"X48"	
0010	20	L1	77 WB					4	268			M04-8	DETOUR	24"X12"	
0010												M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M06-1	UP ARROW	21"X21"	
0010	21	L1	77 WB					7	469			M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												R10-61	ROAD OPEN TO BUSINESSES	60"X30"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M06-1	UP ARROW	21"X21"	
0010	22	L1	77 WB					7	469			M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												R10-61	ROAD OPEN TO BUSINESSES	60"X30"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M06-1	UP ARROW	21"X21"	
0010	23	L1	63 SB					9	603			M04-4	TRUCK	24"X12"	
0010												M4-6	END	24"X12"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-3	SOUTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M4-6	END	24"X12"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-3	SOUTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010	24	L1	63 SB					1	67			G20-2A	END ROAD WORK	48"X24"	
SUBTOTAL 0010				0	0	0	0	45	3015	0	NOTE: TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 1 CYCLE OF COVERING				

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1560-02-70

TRAFFIC CONTROL SUMMARY

				TRAFFIC CONTROL BARRICADES TYPE III 643.0420		TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705		TRAFFIC CONTROL SIGNS 643.0900		TRAFFIC CONTROL COVERING SIGNS 643.0920					
CATEGORY	SIGN NO.	DETAIL	LOCATION	EACH	DAY	EACH	DAY	EACH	DAY	EACH		SIGN CODE	MESSAGE		SIZE
0010	C1	L1	63 NB							1		M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M06-1	UP ARROW		21"X21"
0010	C2	L1	63 NB							1			UP ARROW		
0010	C3	L1	63 NB							1		M3-1	NORTH		24"X12"
010												M1-4	USH 63		24"X24"
0010												M06-1	UP ARROW		21"X21"
0010	C4	L1	77 WB							1		M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M05-1R	RIGHT AHEAD		21"X21"
0010	C5	L1	77 WB							1			RIGHT ARROW		
0010	C6	L1	77 WB							1		M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M06-1	RIGHT ARROW		21"X21"
0010	C7	L1	77 EB							1			LEFT ARROW		
0010	C8	L1	77 EB							1		M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M05-1L	LEFT AHEAD		21"X21"
0010	C9	L1	77 EB							1		M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M06-1	LEFT ARROW		21"X21"
L2															
0010	1	L2	77 EB					4	268			M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M05-1L	LEFT AHEAD		21"X21"
0010	2	L2	77 EB					4	268			M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M06-1	LEFT ARROW		21"X21"
0010	3	L2	77 WB					3	201			M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												W20-2A	DETOUR AHEAD		48"X48"
0010	4	L2	77 WB					4	268			M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M05-1R	RIGHT AHEAD		21"X21"
0010	5	L2	77 WB					4	268			M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M06-1	RIGHT ARROW		21"X21"
0010	6	L2	CTH 00 NB					3	201			M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
SUBTOTAL 0010				0	0	0	0	22	1474	9					

NOTE: TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920
1 CYCLE OF COVERING

3

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1560-02-70

TRAFFIC CONTROL SUMMARY

				TRAFFIC CONTROL BARRICADES TYPE III 643.0420		TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705		TRAFFIC CONTROL SIGNS 643.0900		TRAFFIC CONTROL COVERING SIGNS 643.0920					
CATEGORY	SIGN NO.	DETAIL	LOCATION	EACH	DAY	EACH	DAY	EACH	DAY	EACH		SIGN CODE	MESSAGE		SIZE
0010	7	L2	CTH 00 SB					4	268			M04-8	DETOUR		24"X12"
0010												M3-3	SOUTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M06-1	RIGHT ARROW		21"X21"
0010	8	L2	CTH 00 SB					4	268			M04-8	DETOUR		24"X12"
0010												M3-3	SOUTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M05-1R	RIGHT AHEAD		21"X21"
0010	9	L2	77 WB					3	201			M04-8	DETOUR		24"X12"
0010												M3-3	SOUTH		24"X12"
0010												M1-4	USH 63		24"X24"
L3															
0010	1	L3	CTH 00 NB					4	268			M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M05-1L	LEFT AHEAD		21"X21"
0010	2	L3	CTH 00 NB					4	268			M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M06-1	LEFT ARROW		21"X21"
0010	3	L3	CTH 00 SB					3	201			M04-8	DETOUR		24"X12"
0010												M3-3	SOUTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010	4	L3	CTH 00 SB					4	268			M04-8	DETOUR		24"X12"
0010												M3-3	SOUTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M06-1	RIGHT ARROW		21"X21"
0010	5	L3	CTH 00 NB					3	201			M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010	6	L3	CTH 00 SB					4	268			M04-8	DETOUR		24"X12"
0010												M3-3	SOUTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M05-1R	RIGHT AHEAD		21"X21"
0010	7	L3	CTH 00 NB					4	268			M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M05-1R	RIGHT AHEAD		21"X21"
0010	8	L3	CTH 00 SB					3	201			M04-8	DETOUR		24"X12"
0010												M3-3	SOUTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010	9	L3	CTH 00 NB					4	268			M04-8	DETOUR		24"X12"
0010												M3-1	NORTH		24"X12"
0010												M1-4	USH 63		24"X24"
0010												M06-1	RIGHT ARROW		21"X21"
SUBTOTAL 0010				0	0	0	0	44	2948	0	NOTE: TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 1 CYCLE OF COVERING				

3

1560-02-70

TRAFFIC CONTROL SUMMARY

				TRAFFIC CONTROL BARRICADES TYPE III 643.0420		TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705		TRAFFIC CONTROL SIGNS 643.0900		TRAFFIC CONTROL COVERING SIGNS 643.0920					
CATEGORY	SIGN NO.	DETAIL	LOCATION	EACH	DAY	EACH	DAY	EACH	DAY	EACH		SIGN CODE	MESSAGE	SIZE	
0010	10	L3	CTH 00 NB					3	201			M04-8	DETOUR	24"X12"	
0010												M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010	11	L3	CTH 00 SB					4	268			M04-8	DETOUR	24"X12"	
0010												M3-3	SOUTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M06-1	LEFT ARROW	21"X21"	
0010	12	L3	CTH 00 SB					4	268			M04-8	DETOUR	24"X12"	
0010												M3-3	SOUTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M05-1L	LEFT AHEAD	21"X21"	
D2															
0010	1	D2	SIDEROADS					1	67			W020-3-A	ROAD CLOSED AHEAD	48"X48"	
0010	2	D2	SIDEROADS					1	67			W020-3-D	ROAD CLOSED 500 FT	48"X48"	
0010	3	D2	SIDEROADS					1	67			G20-2A	END ROAD WORK	48"X24"	
0010	4	D2	SIDEROADS	2	134	2	134	1	67			R11-4	ROAD CLOSED TO THRU TRAFFIC	60"X30"	
L4															
0010	1	L4	CTH 00 SB					3	201			M04-8	DETOUR	24"X12"	
0010												M3-3	SOUTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010	2	L4	CTH 00 NB					4	268			M04-8	DETOUR	24"X12"	
0010												M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M05-1R	RIGHT AHEAD	21"X21"	
0010	3	L4	CTH 00 NB					4	268			M04-8	DETOUR	24"X12"	
0010												M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M06-1	RIGHT ARROW	21"X21"	
0010	4	L4	63 NB					4	268			M4-6	END	24"X12"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010	5	L4	63 SB					3	201			M3-3	SOUTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												W020-2A	DETOUR AHEAD	48"X48"	
0010	6	L4	63 SB					4	268			M04-8	DETOUR	24"X12"	
0010												M3-3	SOUTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M05-1L	LEFT AHEAD	21"X21"	
0010	7	L4	63 SB					1	67				HAYWARD		
SUBTOTAL 0010				2	134	2	134	38	2546	0					

NOTE: TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920
1 CYCLE OF COVERING

1560-02-70

TRAFFIC CONTROL SUMMARY

				TRAFFIC CONTROL BARRICADES TYPE III 643.0420		TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705		TRAFFIC CONTROL SIGNS 643.0900		TRAFFIC CONTROL COVERING SIGNS 643.0920			
CATEGORY	SIGN NO.	DETAIL	LOCATION	EACH	DAY	EACH	DAY	EACH	DAY	EACH	SIGN CODE	MESSAGE	SIZE
0010	8	L4	63 SB					4	16		M04-8	DETOUR	24"X12"
0010											M3-3	SOUTH	24"X12"
0010											M1-4	USH 63	24"X24"
0010											M06-1	LEFT ARROW	21"X21"
0010	9	L4	63 SB	2	134	4	268	3	201		R10-61	ROAD OPEN TO BUSINESSES	60"X30"
0010											R11-3	ROAD CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY	60"X30"
0010											M4-9L	DETOUR LEFT ARROW	30"X24"
L5													
0010	1	L5	63 SB	5		10		2	134		R10-61	ROAD OPEN TO BUSINESSES	60"X30"
0010											R11-4	ROAD CLOSED TO THRU TRAFFIC	60"X30"
0010	2	L5	63 NB					1	67		G20-2A	END ROAD WORK	48"X24"
0010	3	L5	63 SB	2		4		2	134		R11-3	ROAD CLOSED 0.2 MILES AHEAD LOCAL TRAFFIC ONLY	60"X30"
0010	4	L5	63 SB					1	67		W020-3-A	ROAD CLOSED AHEAD	48"X48"
0010	5	L5	63 SB					1	67		W020-3-C	ROAD CLOSED 1000 FT	48"X48"
0010	6	L5	63 SB					1	67		W020-3-D	ROAD CLOSED 500 FT	48"X48"
L6													
0010	1	L6	63 NB					1			W020-3-A	ROAD CLOSED AHEAD	48"X48"
0010	2	L6	63 NB					1			W020-3-C	ROAD CLOSED 1000 FT	48"X48"
0010	3	L6	63 NB					1			W020-3-D	ROAD CLOSED 500 FT	48"X48"
0010	4	L6	63 NB	5	335	10	670	2	134		R11-4	ROAD CLOSED TO THRU TRAFFIC	60"X30"
0010											R10-61	ROAD OPEN TO BUSINESSES	60"X30"
D3													
0010	1	D3	TRUCK DETOUR REASSURANCE					20	1340		M04-4	TRUCK	24"X12"
0010											M04-8	DETOUR	24"X12"
0010											M3-1	NORTH	24"X12"
0010											M1-4	USH 63	24"X24"
0010	2	D3	TRUCK DETOUR REASSURANCE					20	1340		M04-4	TRUCK	24"X12"
0010											M04-8	DETOUR	24"X12"
0010											M3-3	SOUTH	24"X12"
0010											M1-4	USH 63	24"X24"
L2-T													
0010	1	L2-T	77 EB					4	268		M04-4	TRUCK	24"X12"
0010											M3-1	NORTH	24"X12"
0010											M1-4	USH 63	24"X24"
0010											W020-2A	DETOUR AHEAD	48"X48"
0010	2	L2-T	77 EB					5	335		M04-4	TRUCK	24"X12"
0010											M04-8	DETOUR	24"X12"
0010											M3-1	NORTH	24"X12"
0010											M1-4	USH 63	24"X24"
0010											M05-1L	LEFT AHEAD	21"X21"
SUBTOTAL 0010				14	469	28	938	69	4170	0	NOTE: TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 1 CYCLE OF COVERING		

1560-02-70

TRAFFIC CONTROL SUMMARY

3

				TRAFFIC CONTROL BARRICADES TYPE III 643.0420		TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705		TRAFFIC CONTROL SIGNS 643.0900		TRAFFIC CONTROL COVERING SIGNS 643.0920					
CATEGORY	SIGN NO.	DETAIL	LOCATION	EACH	DAY	EACH	DAY	EACH	DAY	EACH		SIGN CODE	MESSAGE	SIZE	
0010	3	L2-T	77 EB					5	335			M04-4	TRUCK	24"X12"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M06-1	LEFT ARROW	21"X21"	
0010	4	L2-T	77 EB					5	335			M04-4	TRUCK	24"X12"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-3	SOUTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010	5	L2-T	77 WB					5	335			M04-4	TRUCK	24"X12"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M05-1R	RIGHT AHEAD	21"X21"	
0010	6	L2-T	77 WB					5	335			M04-4	TRUCK	24"X12"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M06-1	RIGHT ARROW	21"X21"	
0010	7	L2-T	27 NB					4	268			M04-4	TRUCK	24"X12"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010	8	L2-T	27 SB					5	335			M04-4	TRUCK	24"X12"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-3	SOUTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M05-1L	LEFT AHEAD	21"X21"	
0010	9	L2-T	27 SB					5	335			M04-4	TRUCK	24"X12"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-3	SOUTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M06-1	LEFT ARROW	21"X21"	
L3-T															
0010	1	L3-T	27 NB					5	335			M04-4	TRUCK	24"X12"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M05-1R	RIGHT AHEAD	21"X21"	
0010	2	L3-T	27 NB					5	335			M04-4	TRUCK	24"X12"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-1	NORTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M06-1	RIGHT ARROW	21"X21"	
SUBTOTAL 0010				0	0	0	0	44	2948	0	NOTE: TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 1 CYCLE OF COVERING				

3

1560-02-70

TRAFFIC CONTROL SUMMARY

				TRAFFIC CONTROL BARRICADES TYPE III 643.0420	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705	TRAFFIC CONTROL SIGNS 643.0900	TRAFFIC CONTROL COVERING SIGNS 643.0920			
CATEGORY	SIGN NO.	DETAIL	LOCATION	EACH DAY	EACH DAY	EACH DAY	EACH	SIGN CODE	MESSAGE	SIZE
0010	3	L3-T	27 NB			4	268		M04-4 TRUCK	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-1 NORTH	24"X12"
0010									M1-4 USH 63	24"X24"
0010	4	L3-T	27 SB			5	335		M04-4 TRUCK	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-3 SOUTH	24"X12"
0010									M1-4 USH 63	24"X24"
0010									M05-1L LEFT AHEAD	21"X21"
0010	5	L3-T	27 SB			5	335		M04-4 TRUCK	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-3 SOUTH	24"X12"
0010									M1-4 USH 63	24"X24"
0010									M06-1 LEFT ARROW	21"X21"
0010	6	L3-T	27 SB			4	268		M04-4 TRUCK	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-3 SOUTH	24"X12"
0010									M1-4 USH 63	24"X24"
L4 - T										
0010	1	L4-T	27 NB			5	335		M04-4 TRUCK	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-1 NORTH	24"X12"
0010									M1-4 USH 63	24"X24"
0010									M05-1R RIGHT AHEAD	21"X21"
0010	2	L4-T	27 NB			5	335		M04-4 TRUCK	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-1 NORTH	24"X12"
0010									M1-4 USH 63	24"X24"
0010									M06-1 RIGHT ARROW	21"X21"
0010	3	L4-T	2 EB			4	268		M04-4 TRUCK	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-1 NORTH	24"X12"
0010									M1-4 USH 63	24"X24"
0010	4	L4-T	2 WB			5	335		M04-4 TRUCK	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-3 SOUTH	24"X12"
0010									M1-4 USH 63	24"X24"
0010									M05-1L LEFT AHEAD	21"X21"
0010	5	L4-T	2 WB			5	335		M04-4 TRUCK	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-3 SOUTH	24"X12"
0010									M1-4 USH 63	24"X24"
0010									M06-1 LEFT ARROW	21"X21"
SUBTOTAL 0010				0	0	42	2814	0	NOTE: TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920	

NOTE: TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920
1 CYCLE OF COVERING

1560-02-70

TRAFFIC CONTROL SUMMARY

				TRAFFIC CONTROL BARRICADES TYPE III 643.0420	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705	TRAFFIC CONTROL SIGNS 643.0900	TRAFFIC CONTROL COVERING SIGNS 643.0920			
CATEGORY	SIGN NO.	DETAIL	LOCATION	EACH DAY	EACH DAY	EACH DAY	EACH	SIGN CODE	MESSAGE	SIZE
0010	6	L4-T	2 WB			9	603		M04-4 TRUCK	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-1 NORTH	24"X12"
0010									M1-4 USH 63	24"X24"
0010									M04-4 TRUCK	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-3 SOUTH	24"X12"
0010									M1-4 USH 63	24"X24"
0010									W020-2A DETOUR AHEAD	48"X48"
0010	7	L4-T	2 WB			10	670		M04-4 TRUCK	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-1 NORTH	24"X12"
0010									M1-4 USH 63	24"X24"
0010									M06-1 UP ARROW	21"X21"
0010									M04-4 TRUCK	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-3 SOUTH	24"X12"
0010									M1-4 USH 63	24"X24"
0010									M05-1R RIGHT AHEAD	21"X21"
0010	8	L4-T	2 WB			10	670		M04-4 TRUCK	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-1 NORTH	24"X12"
0010									M1-4 USH 63	24"X24"
0010									M06-1 UP ARROW	21"X21"
0010									M04-4 TRUCK	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-3 SOUTH	24"X12"
0010									M1-4 USH 63	24"X24"
0010									M06-1 RIGHT ARROW	21"X21"
0010	9	L4-T	27 SB			4	268		M04-4 TRUCK	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-3 SOUTH	24"X12"
0010									M1-4 USH 63	24"X24"
L5 - T										
0010	1	L5-T	2 EB			4	268		M4-6 END	24"X12"
0010									M04-8 DETOUR	24"X12"
0010									M3-1 NORTH	24"X12"
0010									M1-4 USH 63	24"X24"
0010	2	L5-T	2 WB			4	268		M04-4 TRUCK	24"X12"
0010									M3-3 SOUTH	24"X12"
0010									M1-4 USH 63	24"X24"
0010									W020-2A DETOUR AHEAD	48"X48"
SUBTOTAL 0010				0	0	41	2747	0		

NOTE: TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920
1 CYCLE OF COVERING

1560-02-70

TRAFFIC CONTROL SUMMARY

				TRAFFIC CONTROL BARRICADES TYPE III 643.0420		TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705		TRAFFIC CONTROL SIGNS 643.0900		TRAFFIC CONTROL COVERING SIGNS 643.0920					
CATEGORY	SIGN NO.	DETAIL	LOCATION	EACH	DAY	EACH	DAY	EACH	DAY	EACH		SIGN CODE	MESSAGE	SIZE	
0010	3	L5-T	2 WB					5	335			M04-4	TRUCK	24"X12"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-3	SOUTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M06-1	UP ARROW	21"X21"	
0010	4	L5-T	2 WB					5	335			M04-4	TRUCK	24"X12"	
0010												M04-8	DETOUR	24"X12"	
0010												M3-3	SOUTH	24"X12"	
0010												M1-4	USH 63	24"X24"	
0010												M06-1	UP ARROW	21"X21"	
0010	5	L5-T	63 SB					1	67			W020-3-D	ROAD CLOSED 40 MILES AHEAD	48"X48"	
END OF WORK DAY TRAFFIC CONTROL															
0010			63 NB / SB					1	67			W020-3A	ROAD CLOSED AHEAD	48"X48"	
0010				1	67	2	134	1	67			R11-3	ROAD CLOSED 0.50 MILES AHEAD LOCAL TRAFFIC ONLY	60"X30"	
0010								1	67			W020-3C	ROAD CLOSED 1000 FT	48"X48"	
0010								1	67			W020-3D	ROAD CLOSED 500 FT	48"X48"	
0010				2	134	4	268	1	67			R11-2	ROAD CLOSED	48"X30"	
0010				5	335	10	670	1	67			R11-2	ROAD CLOSED	48"X30"	
0010				5	335	10	670	1	67			R11-2	ROAD CLOSED	48"X30"	
0010				2	134	4	268	1	67			R11-2	ROAD CLOSED	48"X30"	
0010								1	67			W020-3D	ROAD CLOSED 500 FT	48"X48"	
0010								1	67			W020-3C	ROAD CLOSED 1000 FT	48"X48"	
0010				1	67	2	134	1	67			R11-3	ROAD CLOSED 0.50 MILES AHEAD LOCAL TRAFFIC ONLY	60"X30"	
0010								1	67			W020-3A	ROAD CLOSED AHEAD	48"X48"	
SUBTOTAL 0010				16	1072	32	2144	23	1541	0					
TOTAL 0010				35	1876	68	3618	481	31774	9	NOTE: TRAFFIC CONTROL COVERING SIGNS TYPE II 643.0920 1 CYCLE OF COVERING				

1560-02-70

TRAFFIC CONTROL SIGNS PCMS

TRAFFIC CONTROL

CATEGORY	LOCATION	643.1050 DAY	REMARKS
0010	USH 63	73	N OF 63/77 INT
0010	USH 63	73	N OF 63/00 INT
TOTAL 0010		146	

CATEGORY	STATION TO	STATION	LOCATION	643.5000 EACH
0010	314+54 -	687+65	USH 63	1
TOTAL 0010				1

PAVEMENT MARKING SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	MARKING LINE EPOXY 4-INCH 646.1020 LF	MARKING LINE GROOVED WET REF EPOXY 4-INCH 646.1040 LF	MARKING LINE GROOVED WET REF EPOXY 8-INCH 646.3040 LF	PAVT MARKING SAME DAY EPOXY 4-INCH 646.4520 LF	LOCATING NO PASSING ZONES 648.0100 MI	TEMPORARY MARKING LINE PAINT 4-INCH 649.0105 LF	REMARKS
0010	314+54	-	342+77	ML LT&RT		5646					WHITE
0010	342+77	-	376+59	ML LT&RT		6764					WHITE
0010	376+59	-	397+50	ML LT&RT		4182					WHITE
0010	397+50	-	458+72	ML LT&RT		12244					WHITE
0010	458+72	-	528+33	ML LT&RT		13922					WHITE
0010	528+33	-	574+28	ML LT&RT		9190					WHITE
0010	577+04	-	611+13	ML LT&RT		6818					WHITE
0010	611+13	-	642+35	ML LT&RT		6244					WHITE
0010	642+35	-	687+65	ML LT&RT		9061					WHITE
0010	574+28	-	577+04	ML LT&RT				552			WHITE
0010	314+54	-	687+65	ML CL	28034			28034	7	22860	YELLOW
0010	314+54	-	315+33	ML RT			80				WHITE
0010	0+00	-	347+00	CTH 00 CL	69400				6.6		YELLOW
TOTAL 0010					97434	74071	80	28586	13.6	22860	

CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	BASE 650.5000 LF	RESURFACING REFERENCE 650.8000 LF
0010	314+54	-	574+28	ML	25974	25974
0010	577+04	-	687+65	ML	11061	11061
TOTAL 0010					37035	37035

CONSTRUCTION STAKING PIPE CULVERTS

CATEGORY	STATION	LOCATION	650.6000 EACH
0010	361+00	USH 63	1
0010	366+00	USH 63	1
0010	435+90	USH 63	1
0010	437+22	USH 63	1
0010	498+21	USH 63	1
0010	600+85	USH 63	2
0010	607+15	USH 63	1
0010	612+15	USH 63	1
0010	625+65	USH 63	1
0010	639+68	USH 63	1
0010	672+17	USH 63	1
TOTAL 0010			12

SAWING ASPHALT

CATEGORY	STATION	TO	STATION	LOCATION	690.0150 LF	REMARKS
0010	418+39	-	418+67	RT PE	28	DRIVEWAY
0010	423+29	-	423+56	RT PE	28	DRIVEWAY
0010	488+96	-	489+13	LT PE	17	DRIVEWAY
0010	509+10	-	509+44	RT PE	33	DRIVEWAY
0010	559+62	-	559+89	LT PE	27	DRIVEWAY
0010	632+89	-	633+12	LT PE	27	DRIVEWAY
0010	636+33	-	636+90	LT PE	57	DRIVEWAY
TOTAL 0010					217	

SPECIAL: MATERIAL TRANSFER VEHICLE

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0105.01 LS
0010	314+54	-	687+65	USH 63	1
TOTAL 0010					1

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (1560-02-70)

CATEGORY	STATION	TO	STATION	LOCATION	650.9910 LS
0010	314+54	-	687+65	USH 63	1
TOTAL 0010					1

SAWING CONCRETE

CATEGORY	STATION	LOCATION	690.0250 LF
0010	314+54	ML	43
TOTAL 0010			43

SPECIAL: TEMPORARY SAND BAG DIKE

CATEGORY	STATION	LOCATION	SPV.0105.02 LS
0010	600+85	MCDERMOTT CREEK	1
TOTAL 0010			1

3

1560-02-75

CLEARING

CATEGORY	STATION TO	STATION	LOCATION	201.0105 STA
0010	1005+75 -	1009+25	HOSPITAL RD (WEST)	4
0010	2005+50 -	2008+50	HOSPITAL RD (EAST)	3
TOTAL 0010				7

GRUBBING

CATEGORY	STATION TO	STATION	LOCATION	201.0205 STA
0010	1005+75 -	1009+25	HOSPITAL RD (WEST)	4
0010	2005+50 -	2008+50	HOSPITAL RD (EAST)	3
TOTAL 0010				7

3

EARTHWORK SUMMARY TABLE

ROADWAY	(1) 205.0100 EXCAVATION COMMON CY	(2) REUSEABLE MATERIAL CY	(3) 205.0400 MARSH EXCAVATION	(4) EXPANDED FILL CY	(5) UNSUITABLE WASTE CY	(6) WASTE CY	(7) 208.1100 SELECT BORROW, GRADE 2 [FILL] CY	(8) 208.1100 SELECT BORROW, GRADE 2 [MARSH] CY
HOSPITAL ROAD (EAST)	514	438	686	394	76	44	0	858
HOSPITAL ROAD (WEST)	234	184	1295	1313	50	0	1128	1619
PROJECT TOTALS:	749	622	1981	1706	126	44	1128	2477

- (1) COMMON EXCAVATION FROM C3D SURFACES (INCLUDES EXISTING PAVEMENT IF WITHIN CUT LIMIT)
(2) REUSEABLE MATERIAL = USEABLE UNCLASSIFIED EXCAVATION + EBS
(3) MARSH EXCAVATION = ESTIMATED MARSH EXCAVATION
(4) EXPANDED FILL = REQUIRED FILL MATERIAL (VOLUME IS EXPANDED)
(5) UNSUITABLE WASTE IS PAVEMENT MATERIAL UNSUITABLE FOR USE AS FILL (QUANTITY INCLUDED IN COMMON)
(6) WASTE = EXTRA REUSEABLE MATERIAL BEYOND WHAT IS NEEDED FOR EXPANDED FILL
(7) SELECT BORROW [FILL] = REQUIRED EMBANKMENT MATERIAL (EXPANDED FILL - REUSEABLE MATERIAL)
(8) SELECT BORROW [MARSH] = EXPANDED MARSH BACKFILL MATERIAL

OBLITERATING OLD ROAD

FINISHING ROADWAY (1560-02-75)

CATEGORY	LOCATION	213.0100 EACH
0010	USH 63 / HOSPITAL RD INTERSECTION	1
TOTAL 0010		1

CATEGORY	LOCATION	214.0100 STA	REMARKS
0010	HOSPITAL RD (EAST)	1.3	SEE PLAN & PROFILE FOR LOCATION
0010	HOSPITAL RD (WEST)	2.4	SEE PLAN & PROFILE FOR LOCATION
TOTAL 0010		3.7	

3

BASE AGGREGATE DENSE 3/4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 TON	REMARKS
0010	1005+33	-	1009+58	HOSPITAL RD (W)	91	SHOULDERS
0010	2004+68	-	2008+76	HOSPITAL RD (E)	87	SHOULDERS
TOTAL 0010					178	

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

CATEGORY	STATION	TO	STATION	LOCATION	601.0557 LF	REMARKS
0010	1008+88.22	-	1009+55	HOSPITAL RD (WEST)	199	NW & SW QUADRANT
TOTAL 0010					199	

SALVAGED TOPSOIL

CATEGORY	STATION	TO	STATION	LOCATION	625.0500 SY
0010	1005+33	-	1009+45	HOSPITAL RD (WEST)	3386
0010	2004+68	-	2008+68	HOSPITAL RD (EAST)	2156
TOTAL 0010					5542

BASE AGGREGATE DENSE 1 1/4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	305.0120 TON
0010	1005+33	-	1009+58	HOSPITAL RD (W)	1450
0010	2004+68	-	2008+76	HOSPITAL RD (E)	1202
TOTAL 0010					2652

WATER

CATEGORY	LOCATION	624.0100 MGAL
0010	HOSPITAL RD (EAST)	14
0010	HOSPITAL RD (WEST)	17
TOTAL 0010		32

MULCHING

CATEGORY	STATION	TO	STATION	LOCATION	627.0200 SY
0010	1005+33	-	1009+45	HOSPITAL RD (WEST)	3386
0010	2004+68	-	2008+68	HOSPITAL RD (EAST)	2156
TOTAL 0010					5542

3

3

EROSION BALES

CATEGORY	LOCATION	628.1104 EACH
0010	UNDISTRIBUTED	10
TOTAL 0010		10

SILT FENCE MAINTENANCE

CATEGORY	STATION TO	STATION	LOCATION	628.1520 LF
0010	1005+33	- 1009+45	HOSPITAL RD (WEST)	813
0010	2004+68	- 2008+68	HOSPITAL RD (EAST)	706
TOTAL 0010				1519

SEEDING MIXTURE NO. 20

CATEGORY	STATION TO	STATION	LOCATION	630.0120 LB
0010	1005+33	- 1009+45	HOSPITAL RD (WEST)	91
0010	2004+68	- 2008+68	HOSPITAL RD (EAST)	58
TOTAL 0010				150

SILT FENCE

CATEGORY	STATION TO	STATION	LOCATION	628.1504 LF
0010	1005+33	- 1009+45	HOSPITAL RD (WEST)	813
0010	2004+68	- 2008+68	HOSPITAL RD (EAST)	706
TOTAL 0010				1519

FERTILIZER TYPE B

CATEGORY	STATION TO	STATION	LOCATION	629.0210 CWT
0010	1005+33	- 1009+45	HOSPITAL RD (WEST)	2.1
0010	2004+68	- 2008+68	HOSPITAL RD (EAST)	1.4
TOTAL 0010				3.5

CONSTRUCTION STAKING SUBGRADE

CATEGORY	STATION TO	STATION	LOCATION	650.4500 LF
0010	1005+33	- 1009+58	HOSPITAL RD (W)	425
0010	2004+68	- 2008+76	HOSPITAL RD (E)	408
TOTAL 0010				833

3

3

CONSTRUCTION STAKING BASE

CATEGORY	STATION TO	STATION	LOCATION	650.5000 LF
0010	1005+33 -	1009+58	HOSPITAL RD (W)	425
0010	2004+68 -	2008+76	HOSPITAL RD (E)	408
TOTAL 0010				833

CONSTRUCTION STAKING SLOPE STAKES

CATEGORY	STATION TO	STATION	LOCATION	650.9920 LF
0010	1005+33 -	1009+58	HOSPITAL RD (W)	425
0010	2004+68 -	2008+76	HOSPITAL RD (E)	408
TOTAL 0010				833

CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER

CATEGORY	LOCATION	650.5500 LF	REMARKS
0010	HOSPITAL RD (W)	112	NW QUAD
0010	HOSPITAL RD (W)	80	SW QUAD
TOTAL 0010		192	

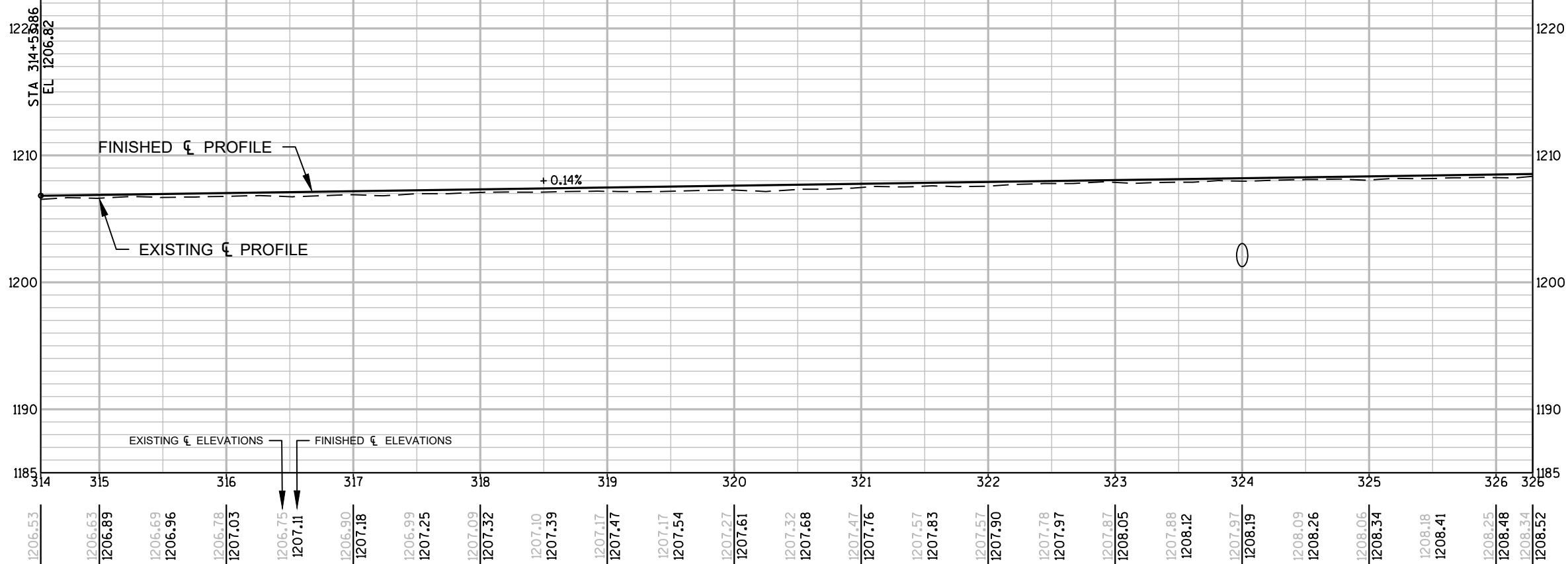
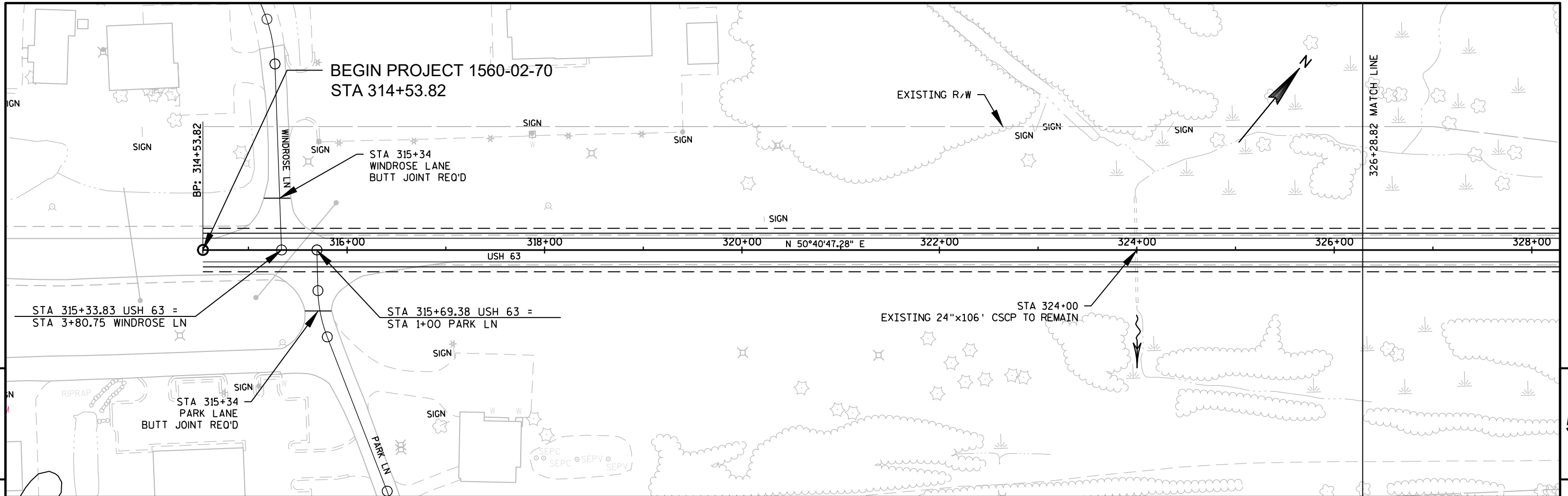
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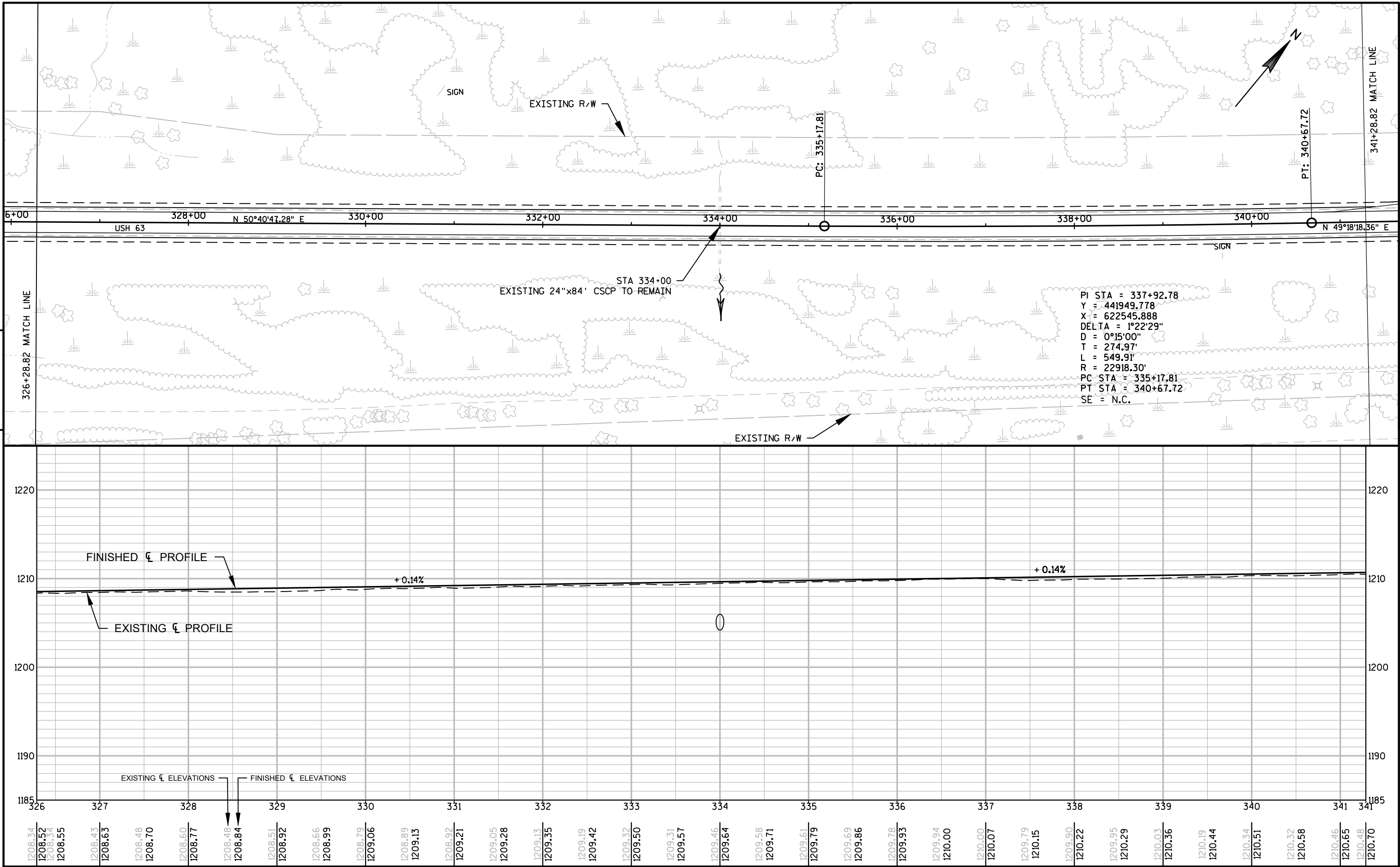
CATEGORY	STATION	LOCATION	690.0150 LF	REMARKS
0010	1005+33	HOSPITAL RD (W)	24	BEGIN CONSTRUCTION
0010	2004+68	HOSPITAL RD (E)	22	BEGIN CONSTRUCTION
TOTAL 0010			46	

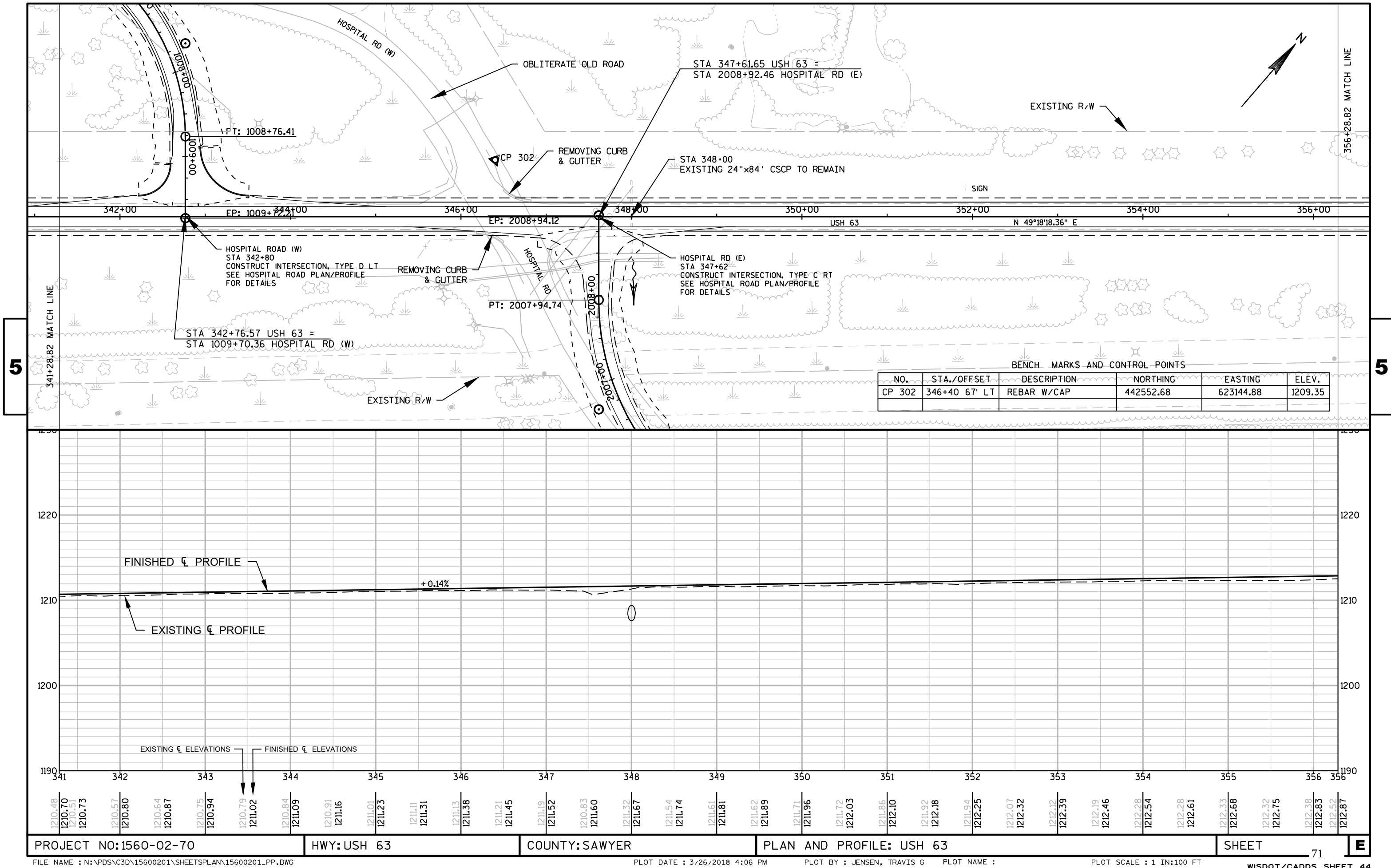
CONCRETE CURB AND GUTTER CURE AND SEAL TREATMENT

CATEGORY	LOCATION	SPV.0090.01 LF	REMARKS
0010	HOSPITAL RD (W)	112	NW QUAD
0010	HOSPITAL RD (W)	80	SW QUAD
TOTAL 0010		192	

3







PROJECT NO:1560-02-70

HWY: USH 63

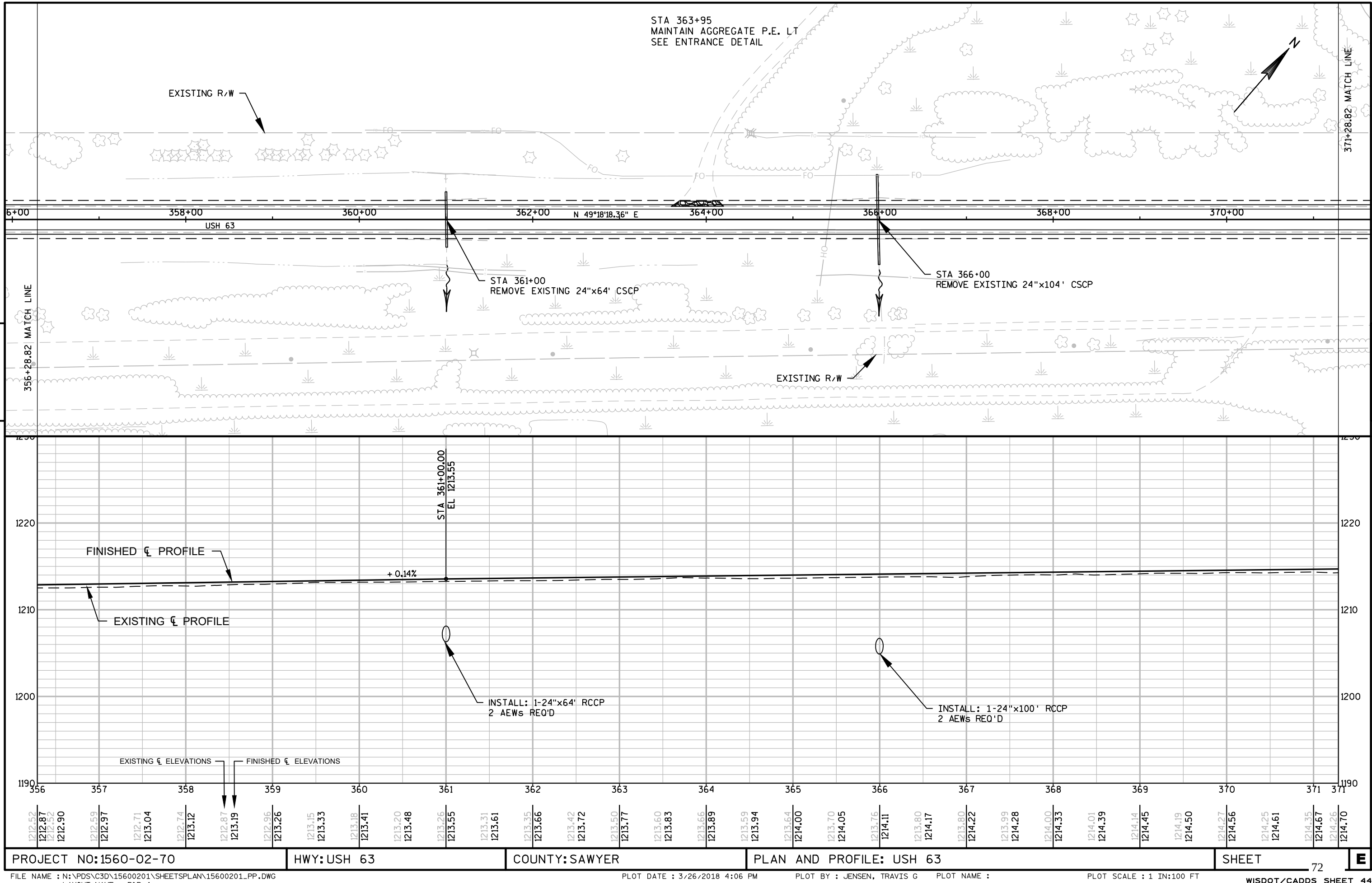
COUNTY: SAWYER

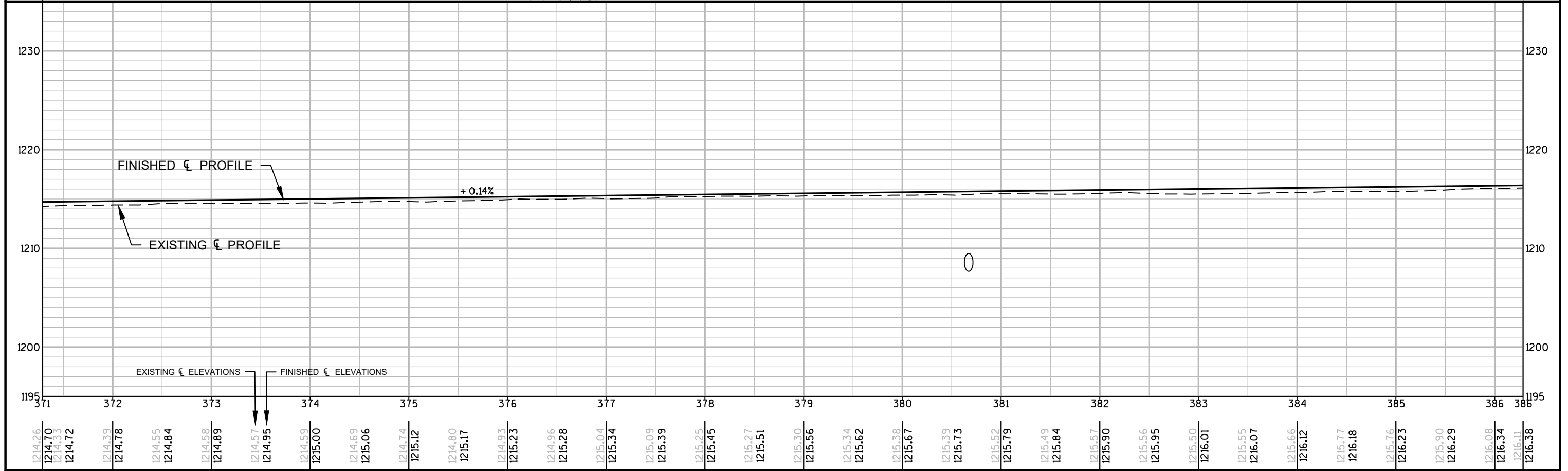
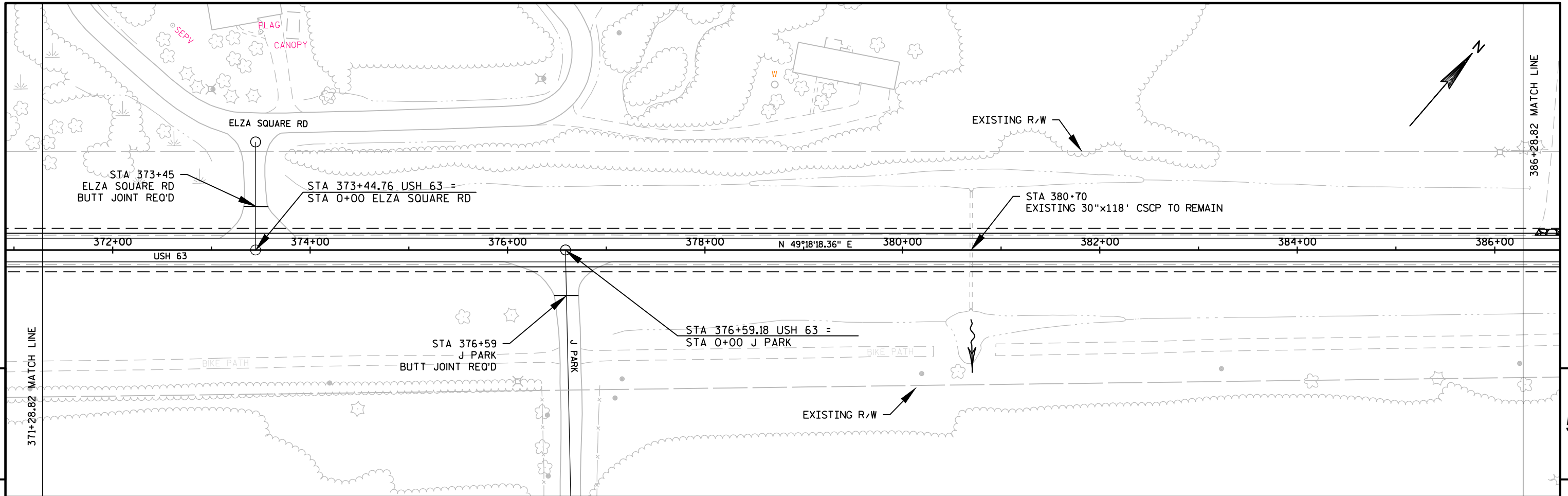
PLAN AND PROFILE: USH 63

SHEET

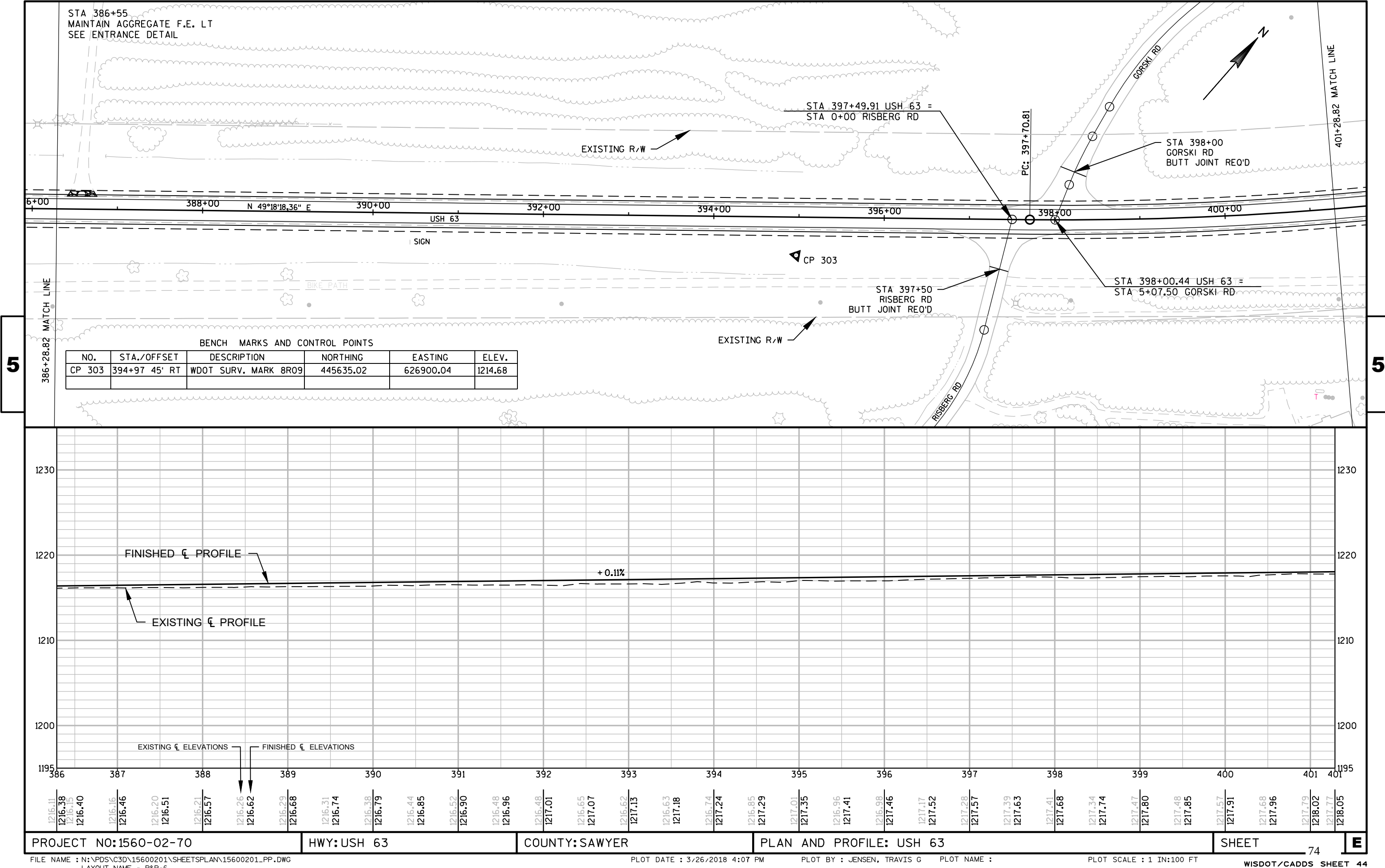
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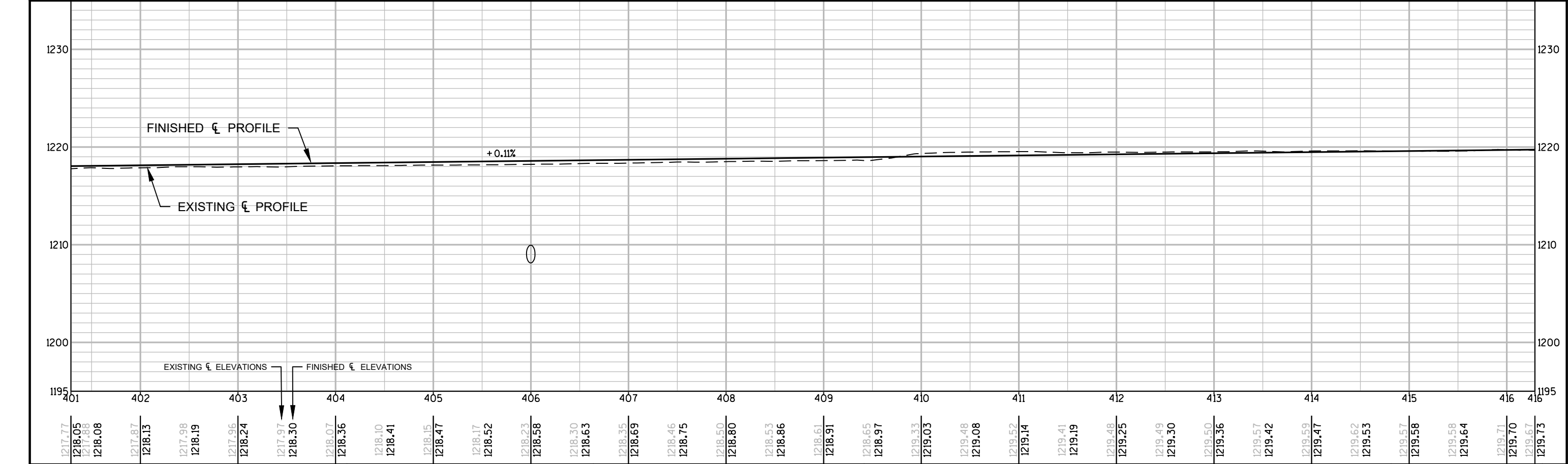
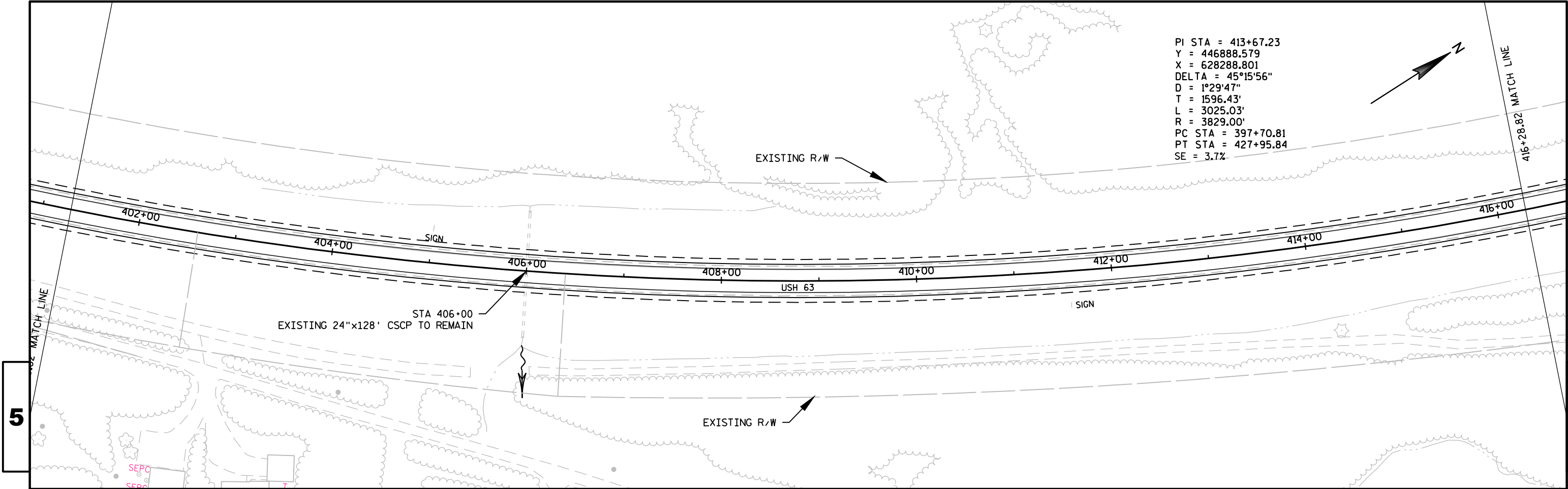
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PROJECT NO:1560-02-70	HWY: USH 63	COUNTY: SAWYER	PLAN AND PROFILE: USH 63	SHEET 73	E
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PROJECT NO:1560-02-70

HWY: USH 63

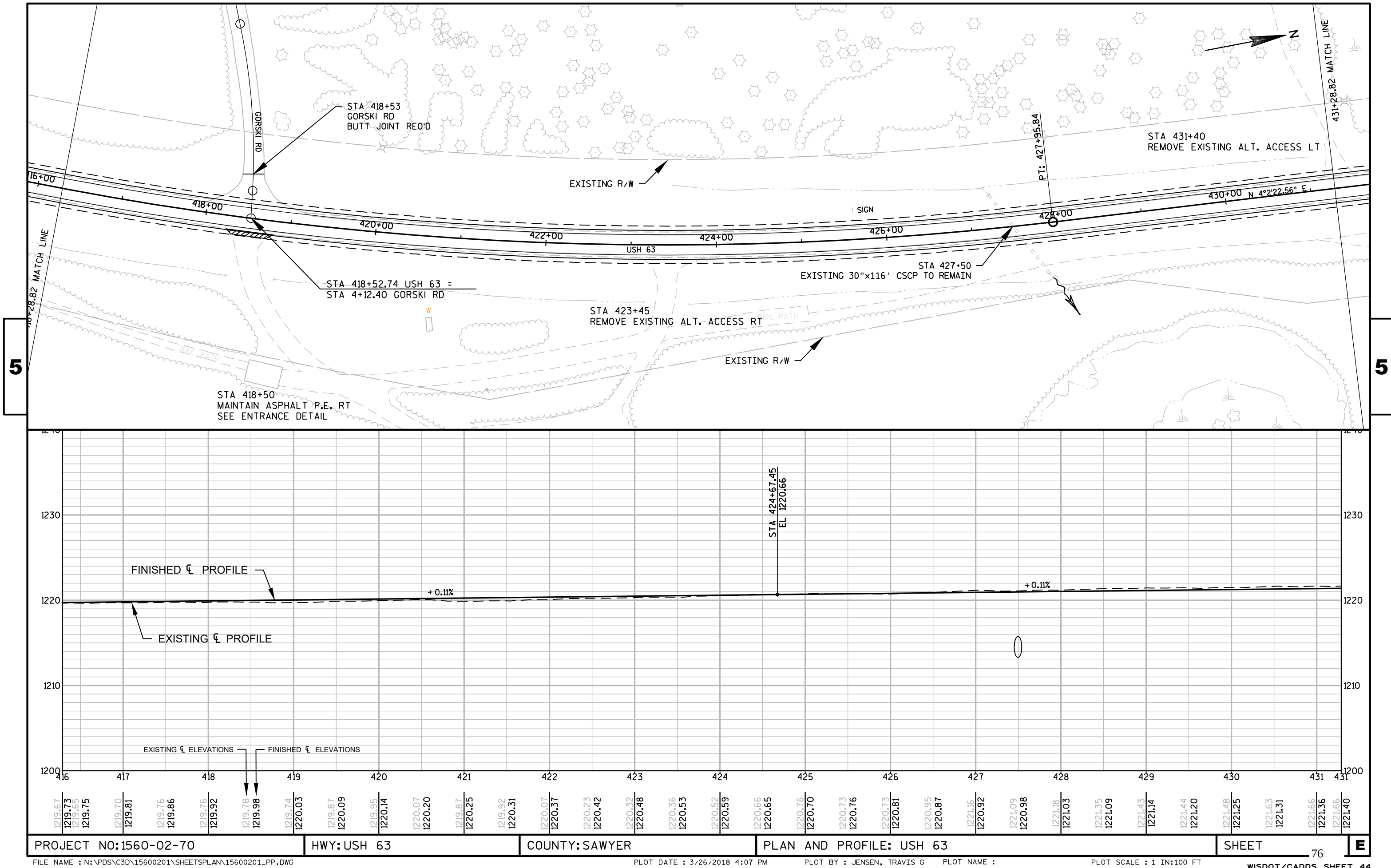
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PLAN AND PROFILE: USH 63

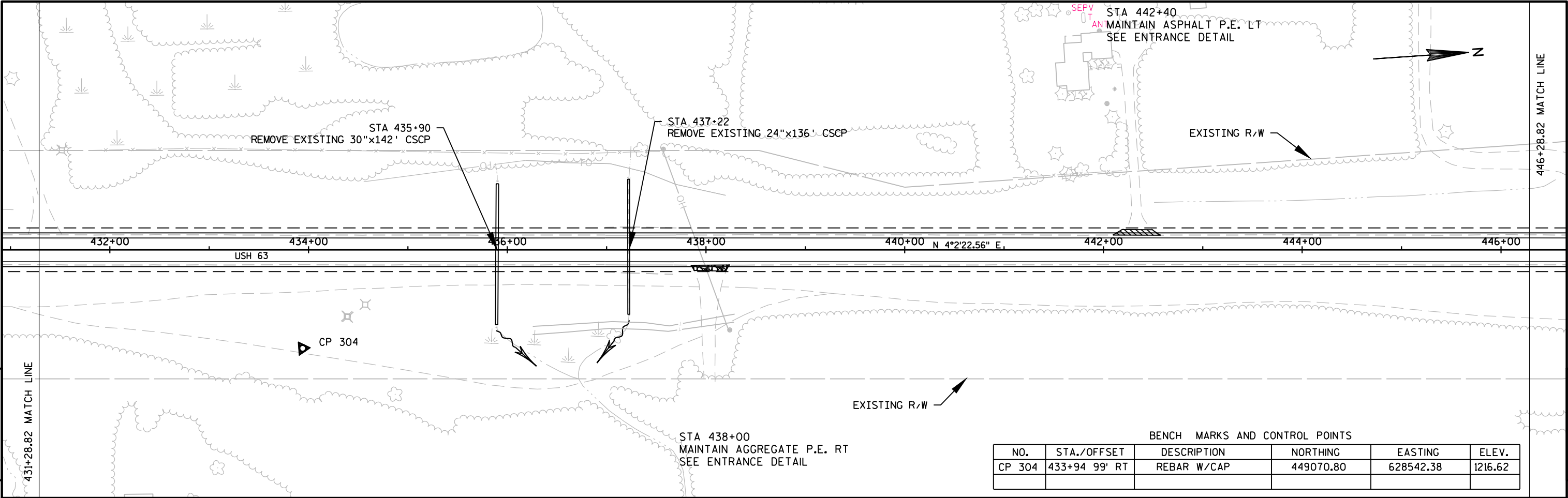
SHEET

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E

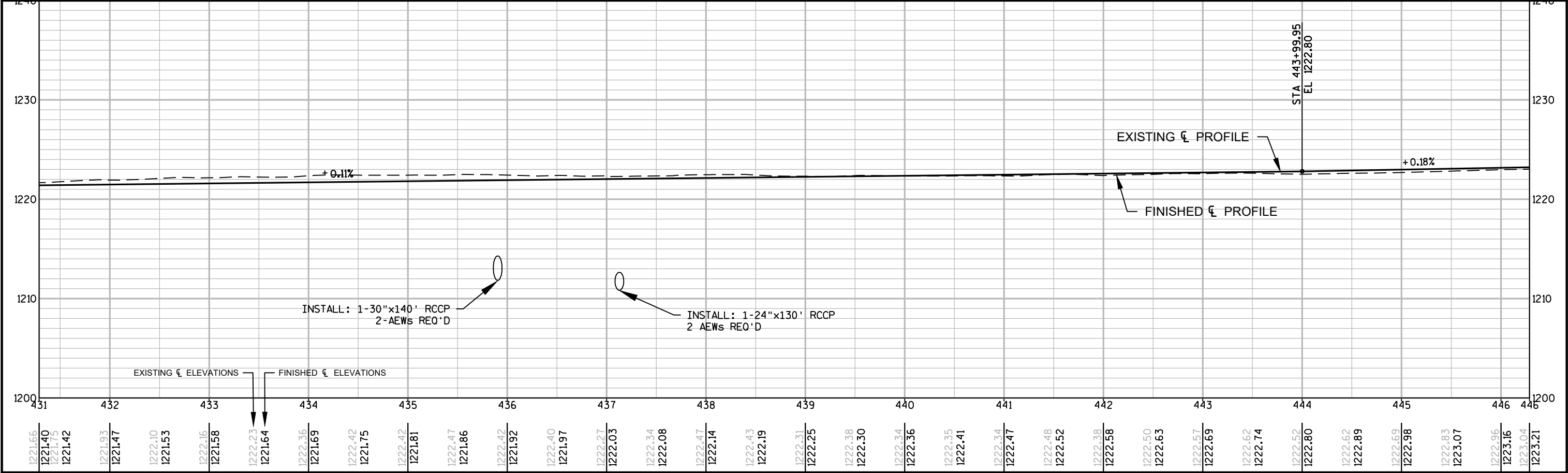


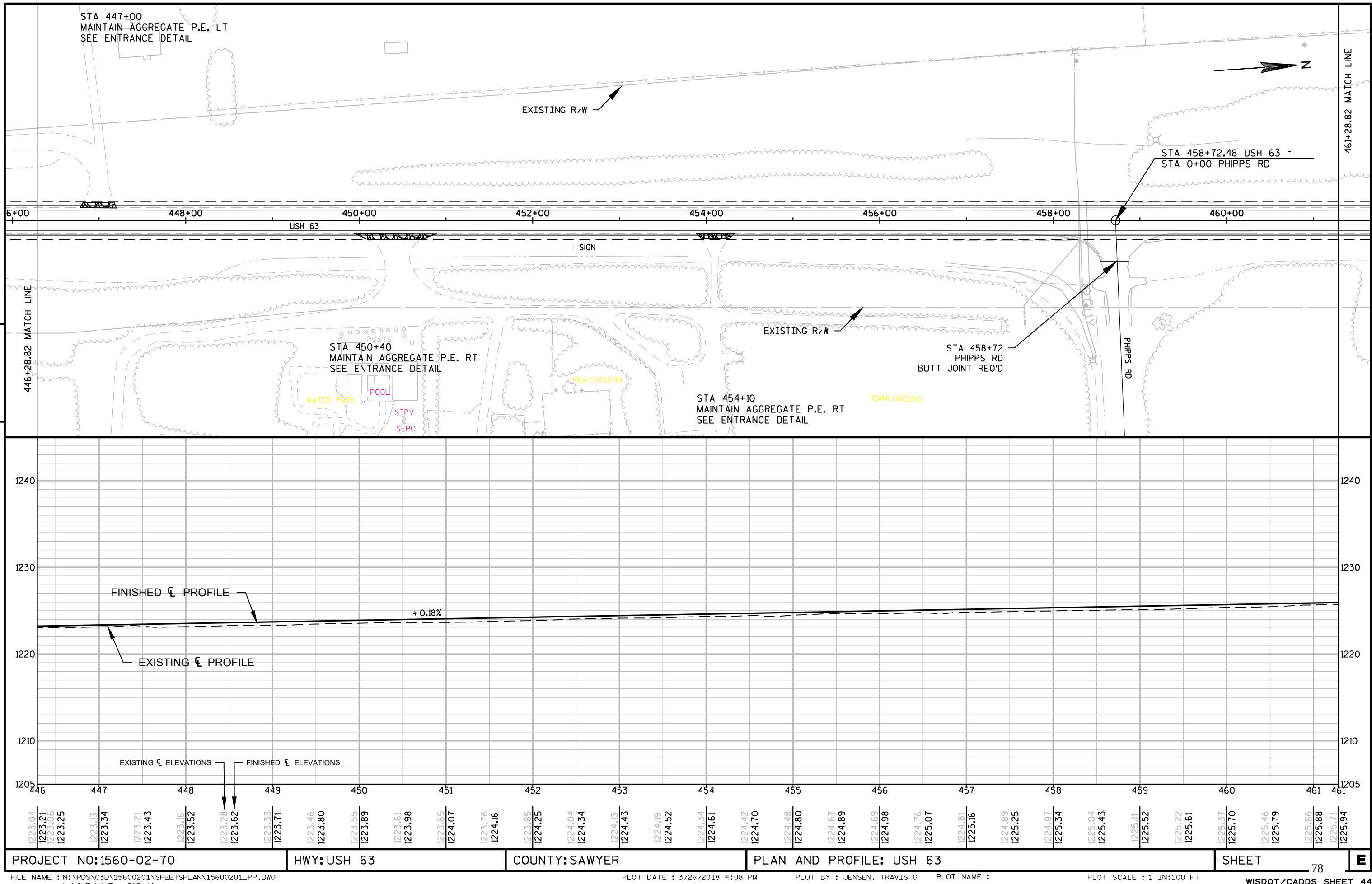
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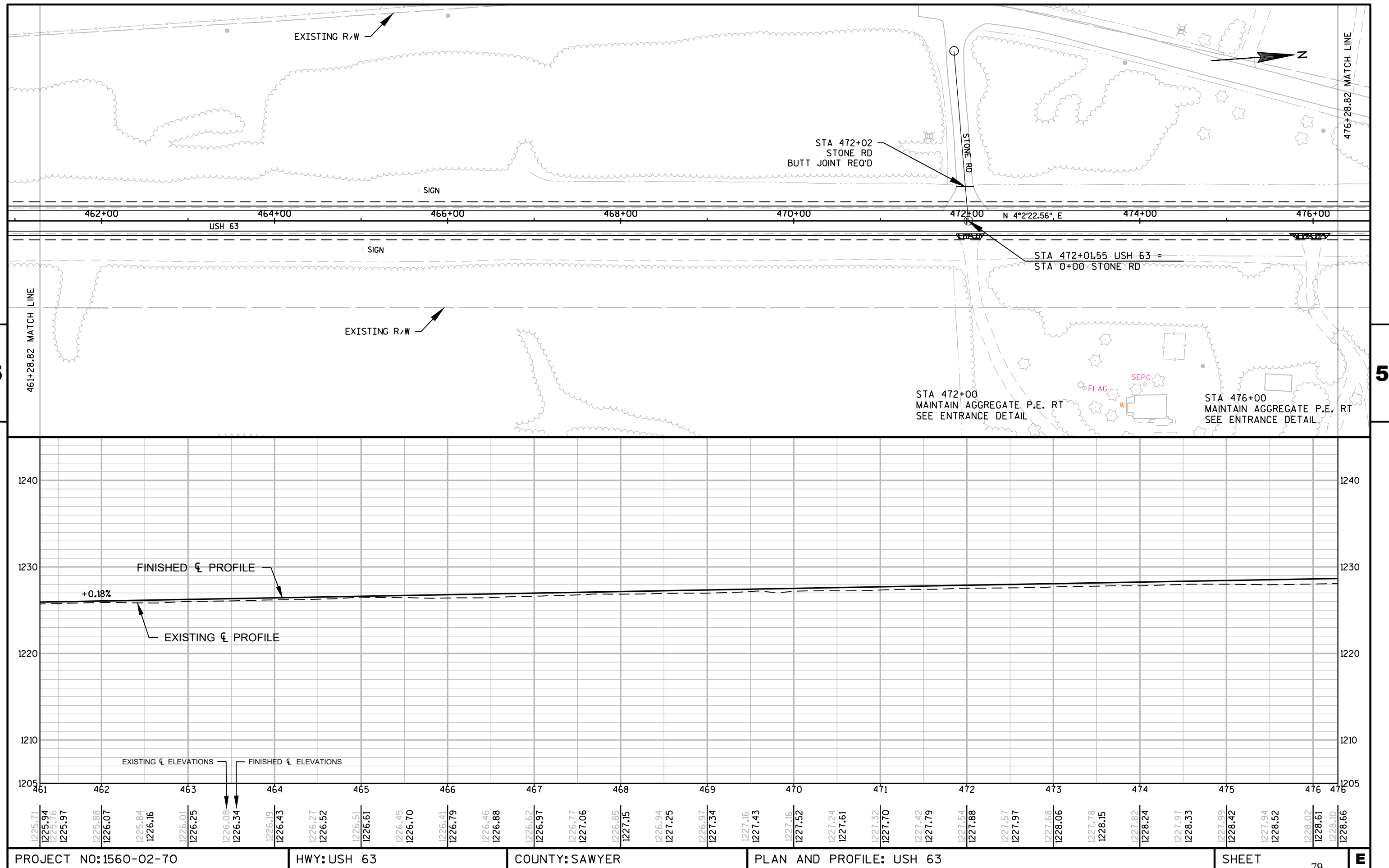


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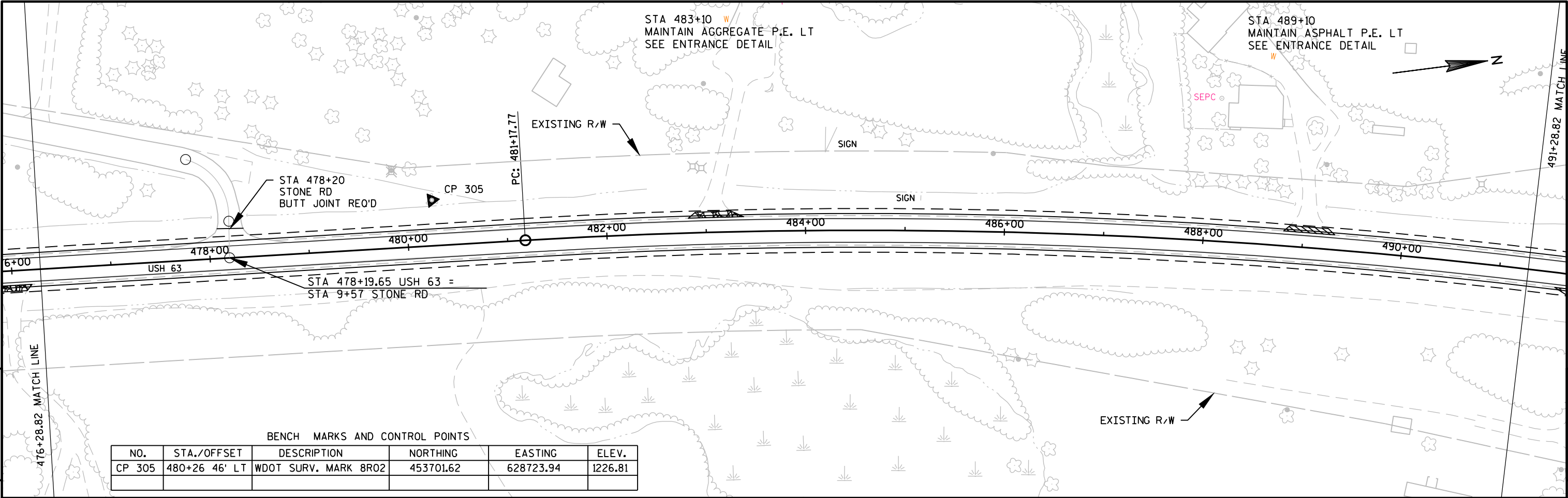
BENCH MARKS AND CONTROL POINTS					
NO.	STA./OFFSET	DESCRIPTION	NORTHING	EASTING	ELEV.
CP 304	433+94 99' RT	REBAR W/CAP	449070.80	628542.38	1216.62





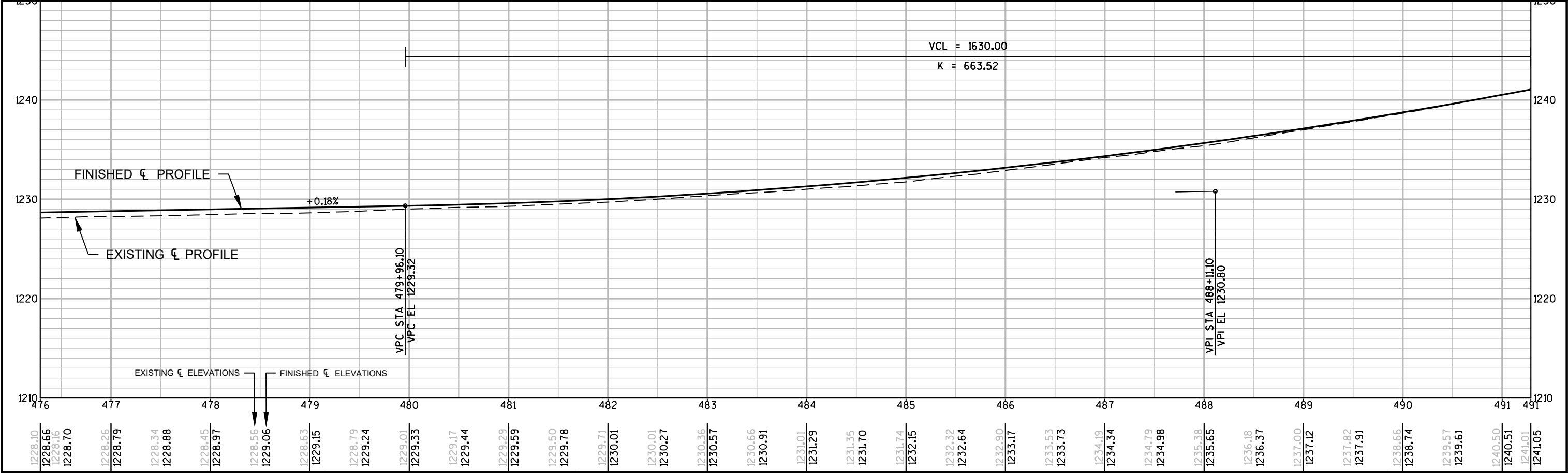


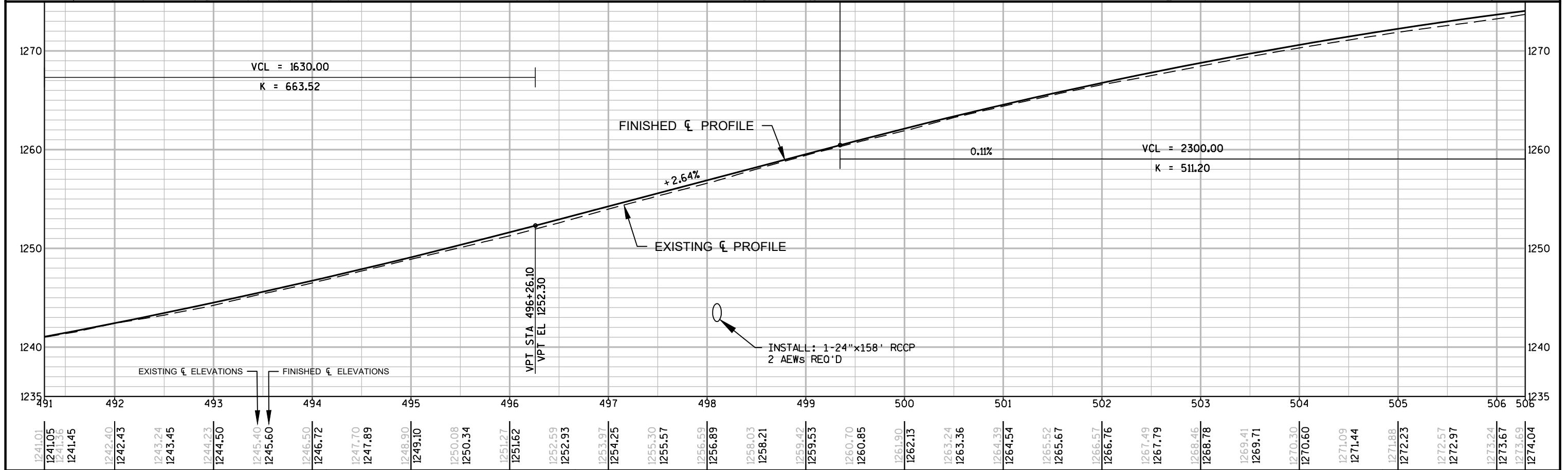
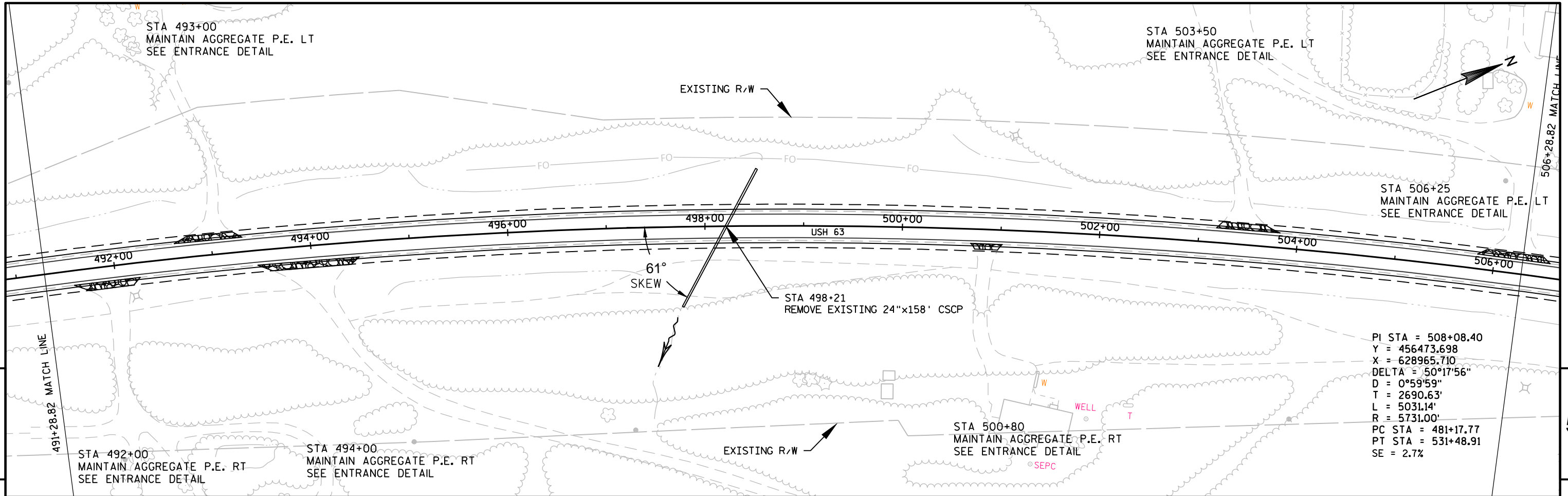
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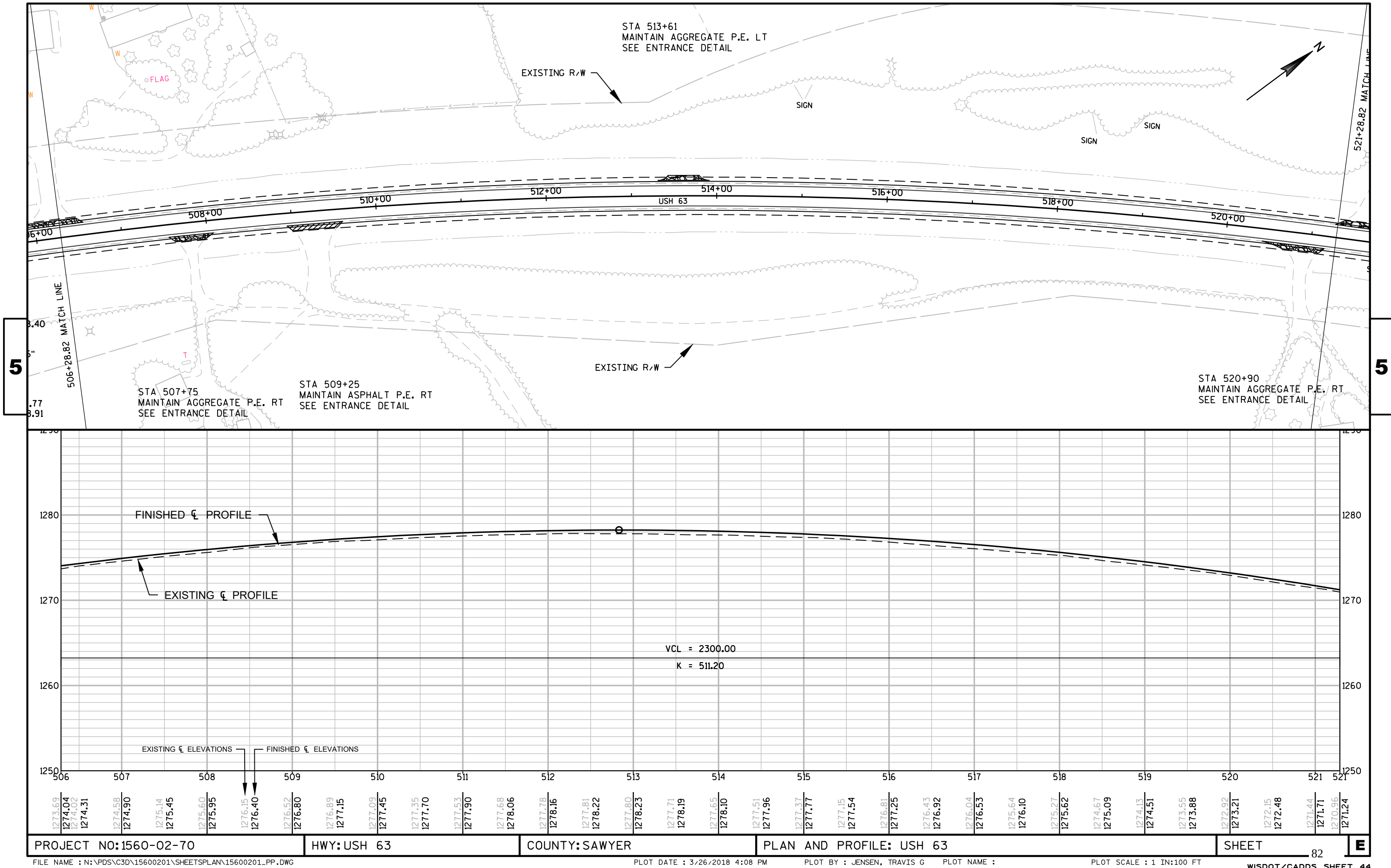


BENCH MARKS AND CONTROL POINTS					
NO.	STA./OFFSET	DESCRIPTION	NORTHING	EASTING	ELEV.
CP 305	480+26 46' LT	WDOT SURV. MARK 8R02	453701.62	628723.94	1226.81

5







PROJECT NO:1560-02-70

HWY: USH 63

COUNTY: SAWYER

PLAN AND PROFILE: USH 63

SHEET

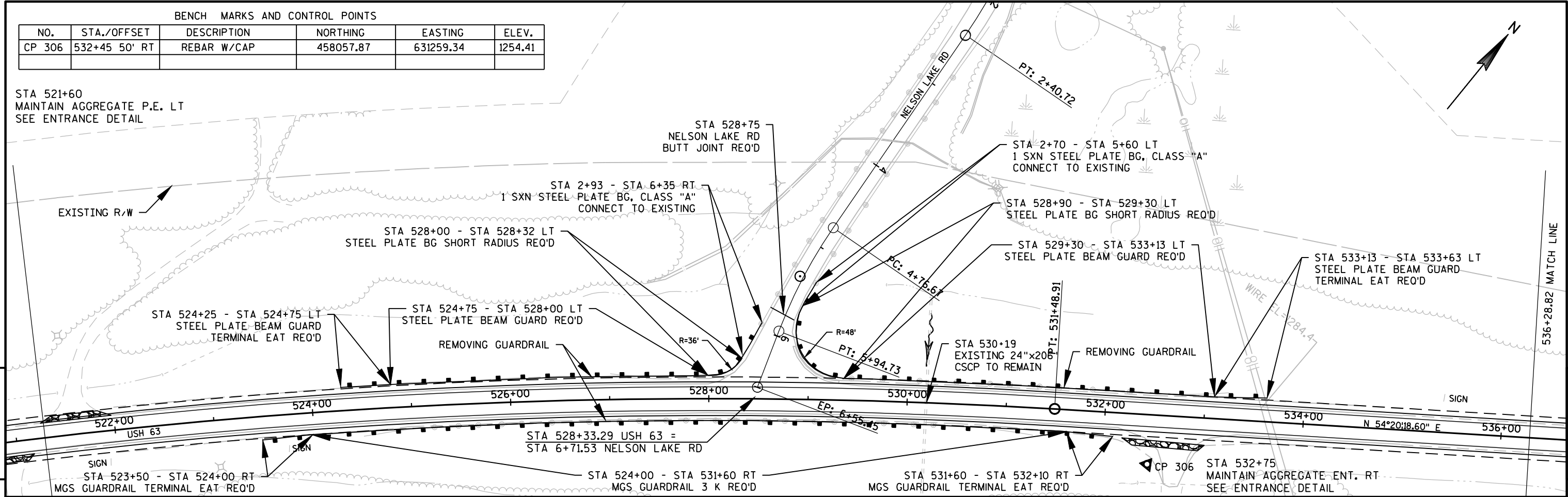
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E

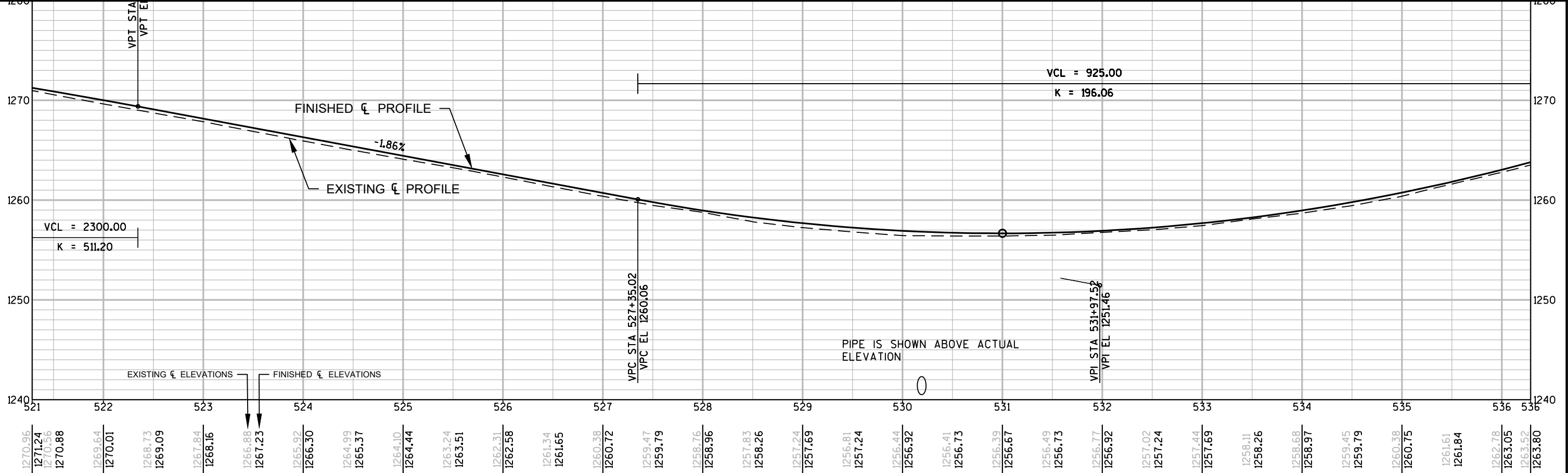
BENCH MARKS AND CONTROL POINTS					
NO.	STA./OFFSET	DESCRIPTION	NORTHING	EASTING	ELEV.
CP 306	532+45 50' RT	REBAR W/CAP	458057.87	631259.34	1254.41

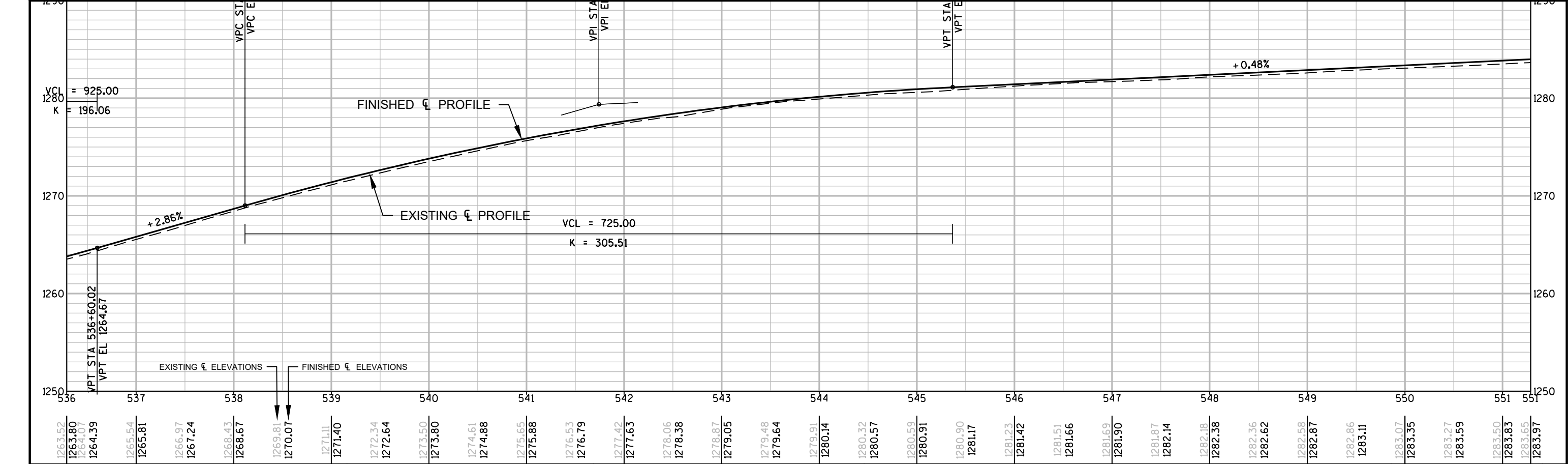
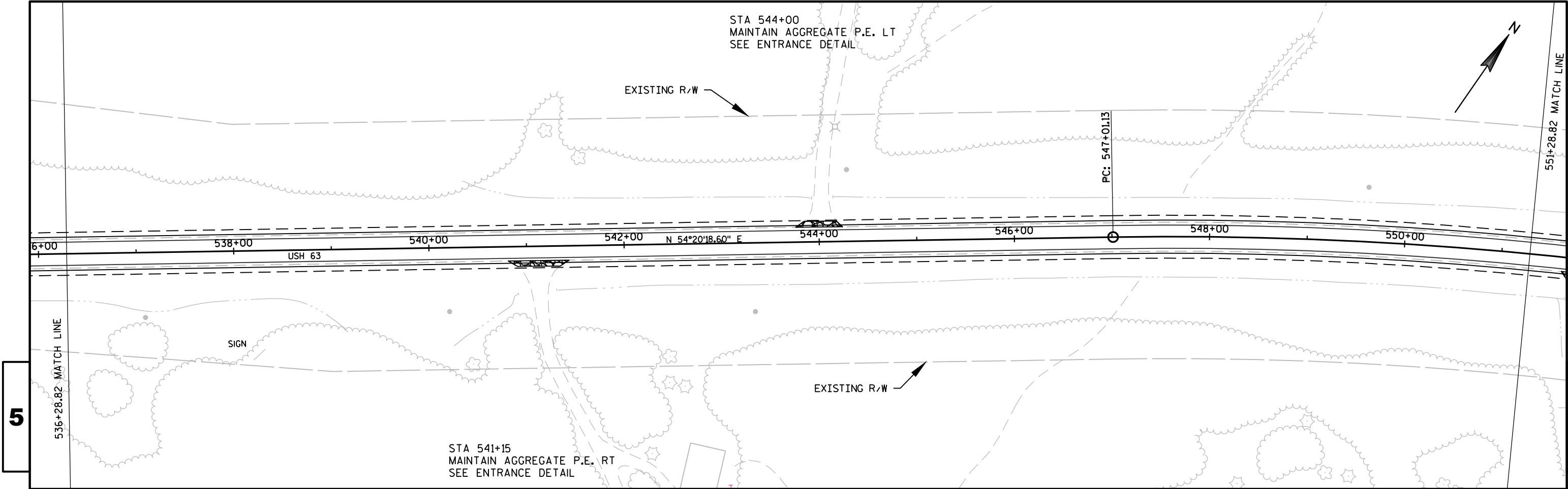
STA 521+60
MAINTAIN AGGREGATE P.E. LT
SEE ENTRANCE DETAIL

5



5





PROJECT NO:1560-02-70

HWY: USH 63

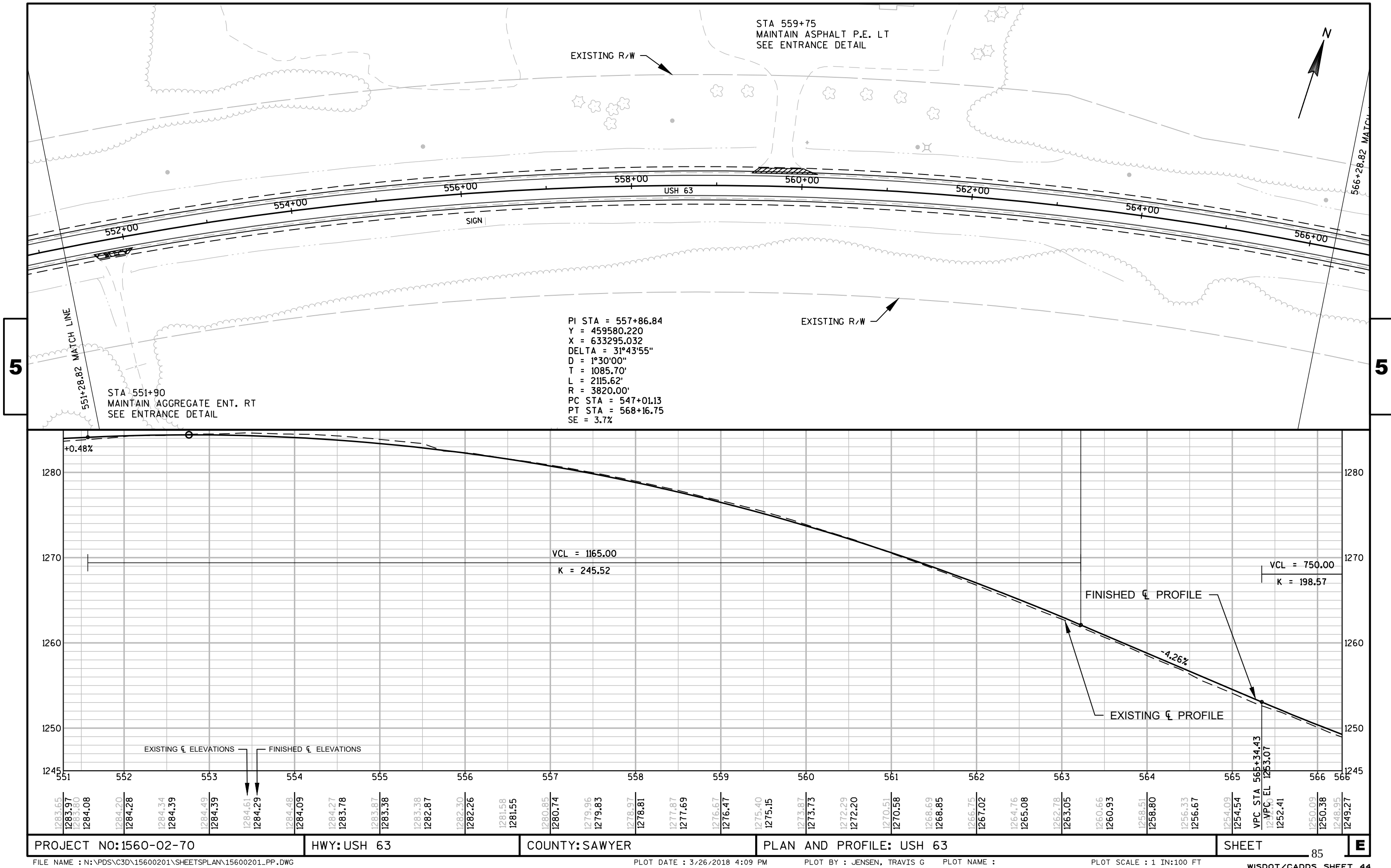
COUNTY: SAWYER

PLAN AND PROFILE: USH 63

SHEET

84

E



PROJECT NO:1560-02-70

HWY: USH 63

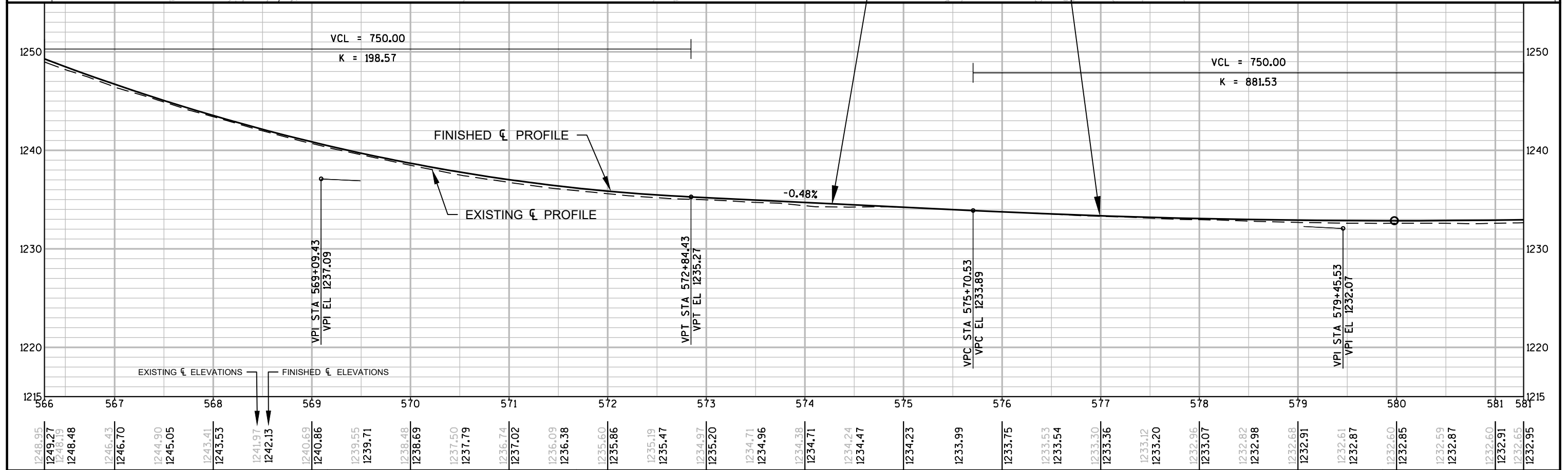
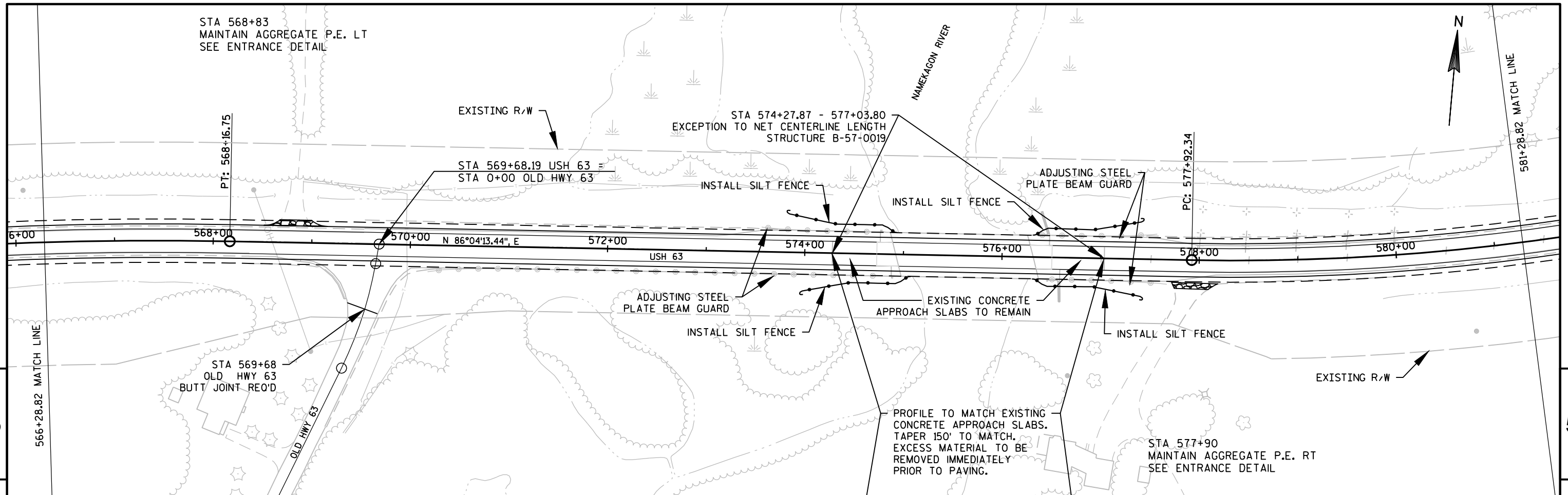
COUNTY: SAWYER

PLAN AND PROFILE: USH 63

SHEET

85

E



PI STA = 586+40.84
Y = 459779.628
X = 636197.984
DELTA = 40°37'46"
D = 2°29'59"
T = 848.50'
L = 1625.29'
R = 2292.00'
PC STA = 577+92.34
PT STA = 594+17.63
SE = 5.1%

CP 307

SIGN

USH 63

EXISTING R/W

PT: 594+17.63

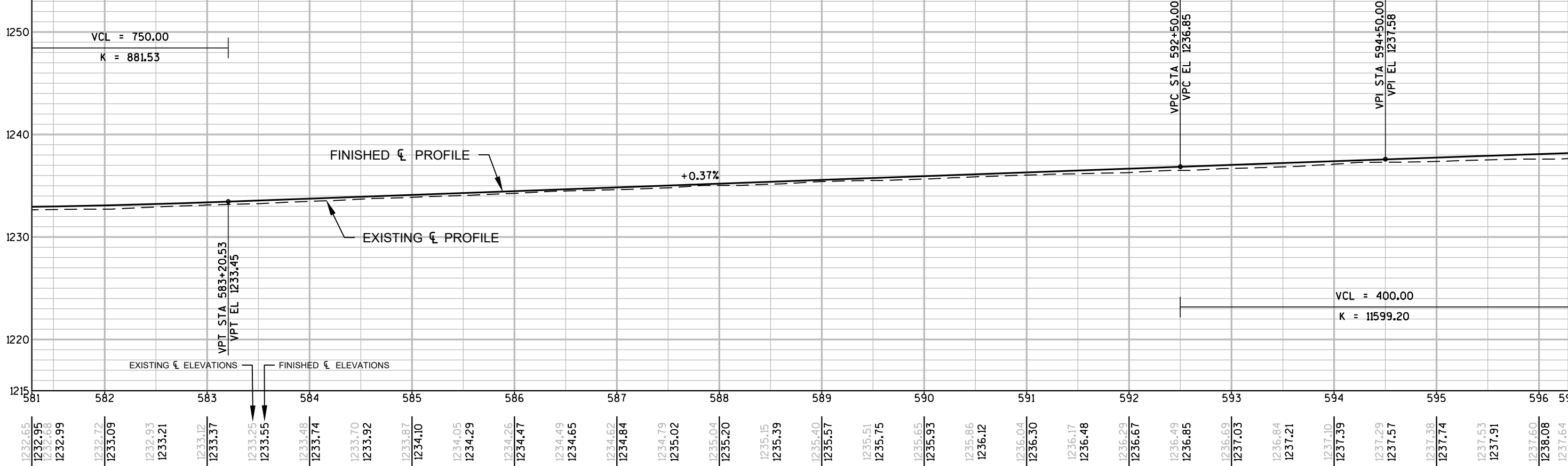
596+28.82 MATCH LIM

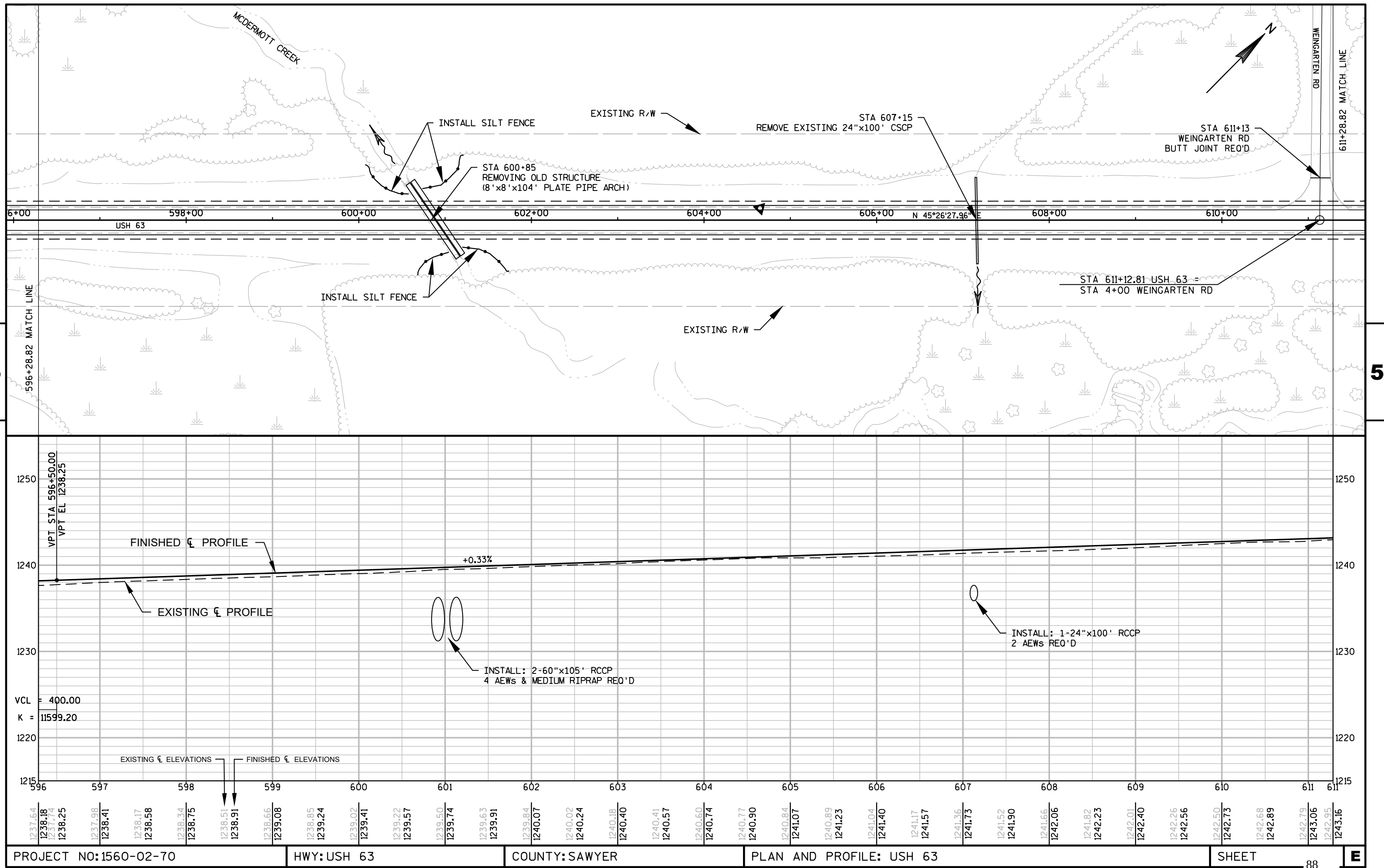
BENCH MARKS AND CONTROL POINTS

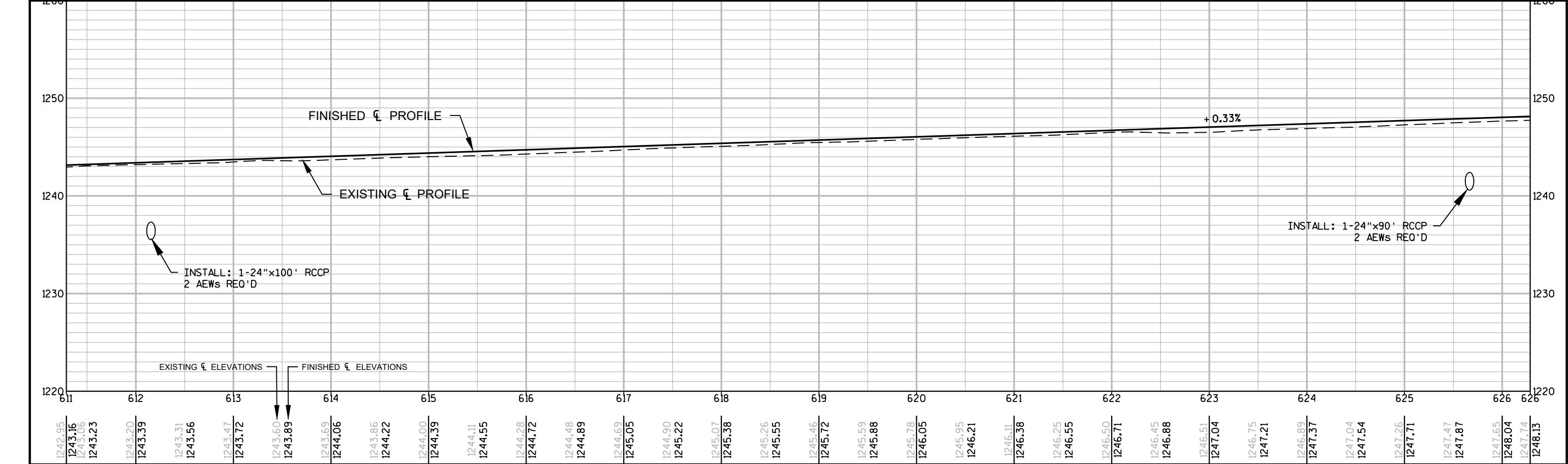
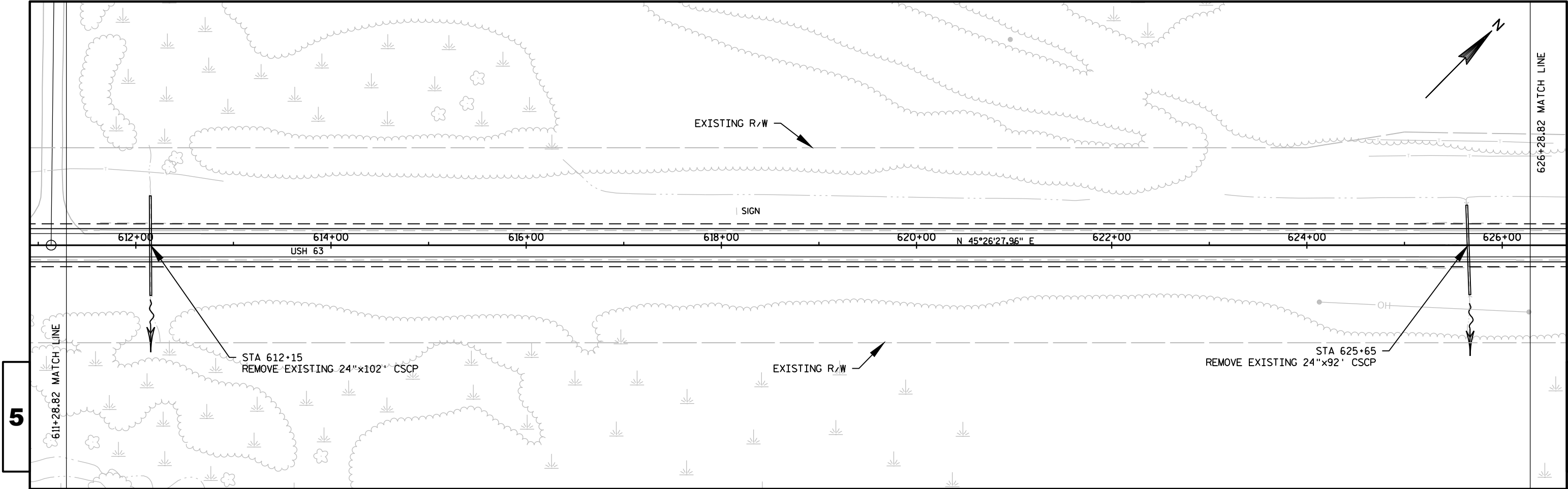
NO.	STA./OFFSET	DESCRIPTION	NORTHING	EASTING	ELEV.
CP 307	583+33 73' LT	NGS PT LENROOT GPS	459891.16	635860.00	1233.04

EXISTING R/W

STA 592+20
MAINTAIN AGGREGATE P.E. RT
SEE ENTRANCE DETAIL

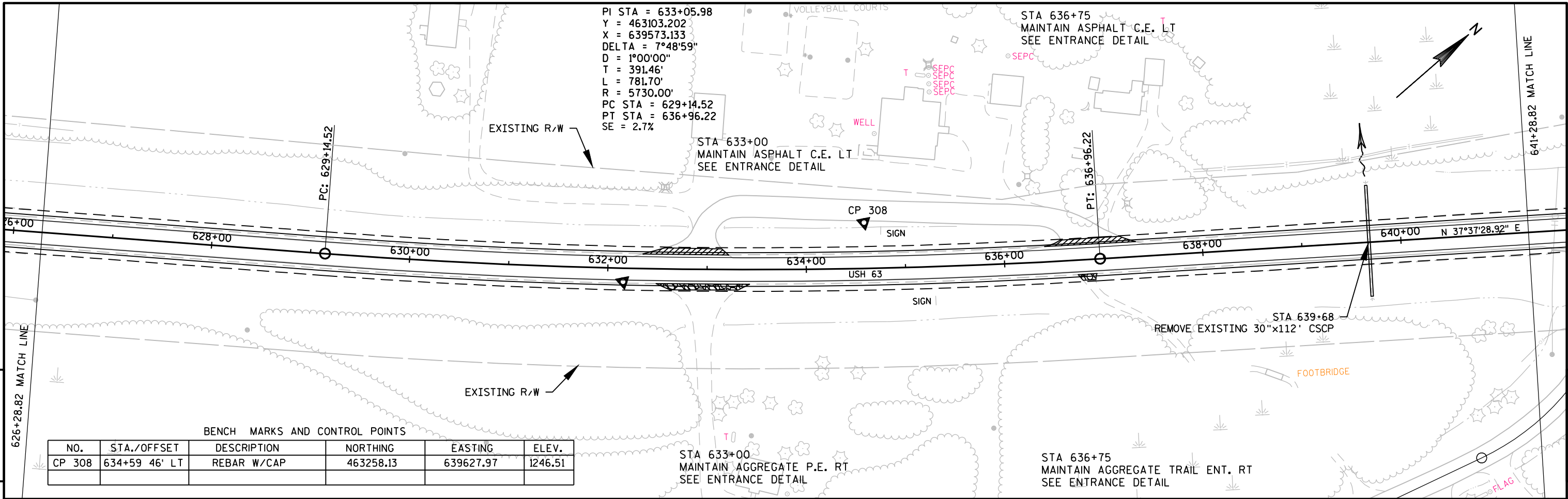




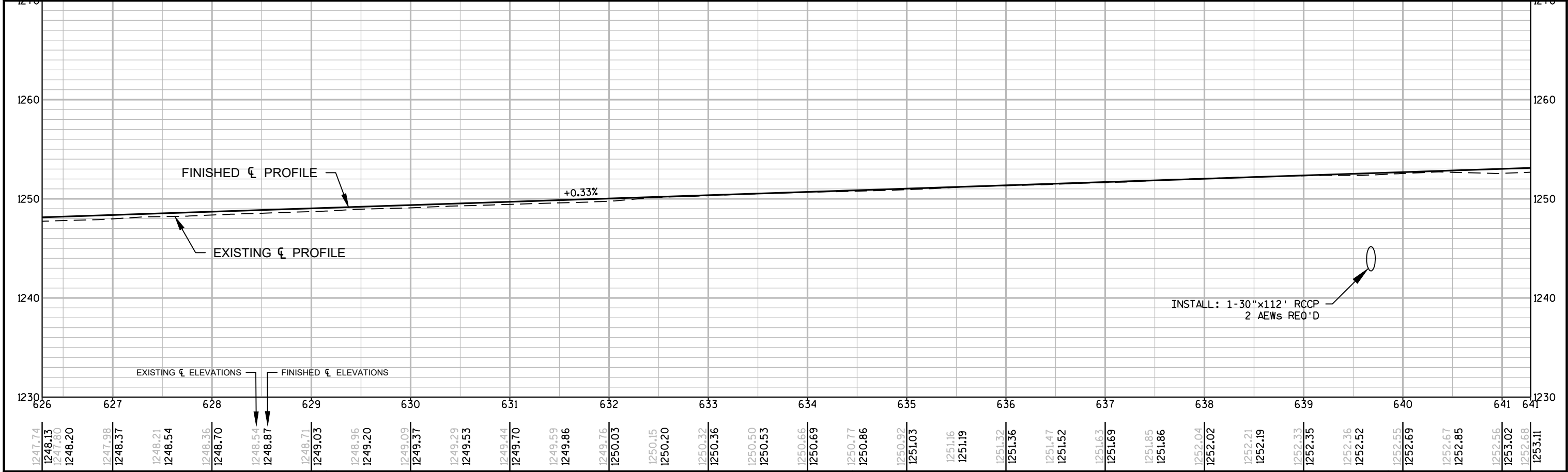


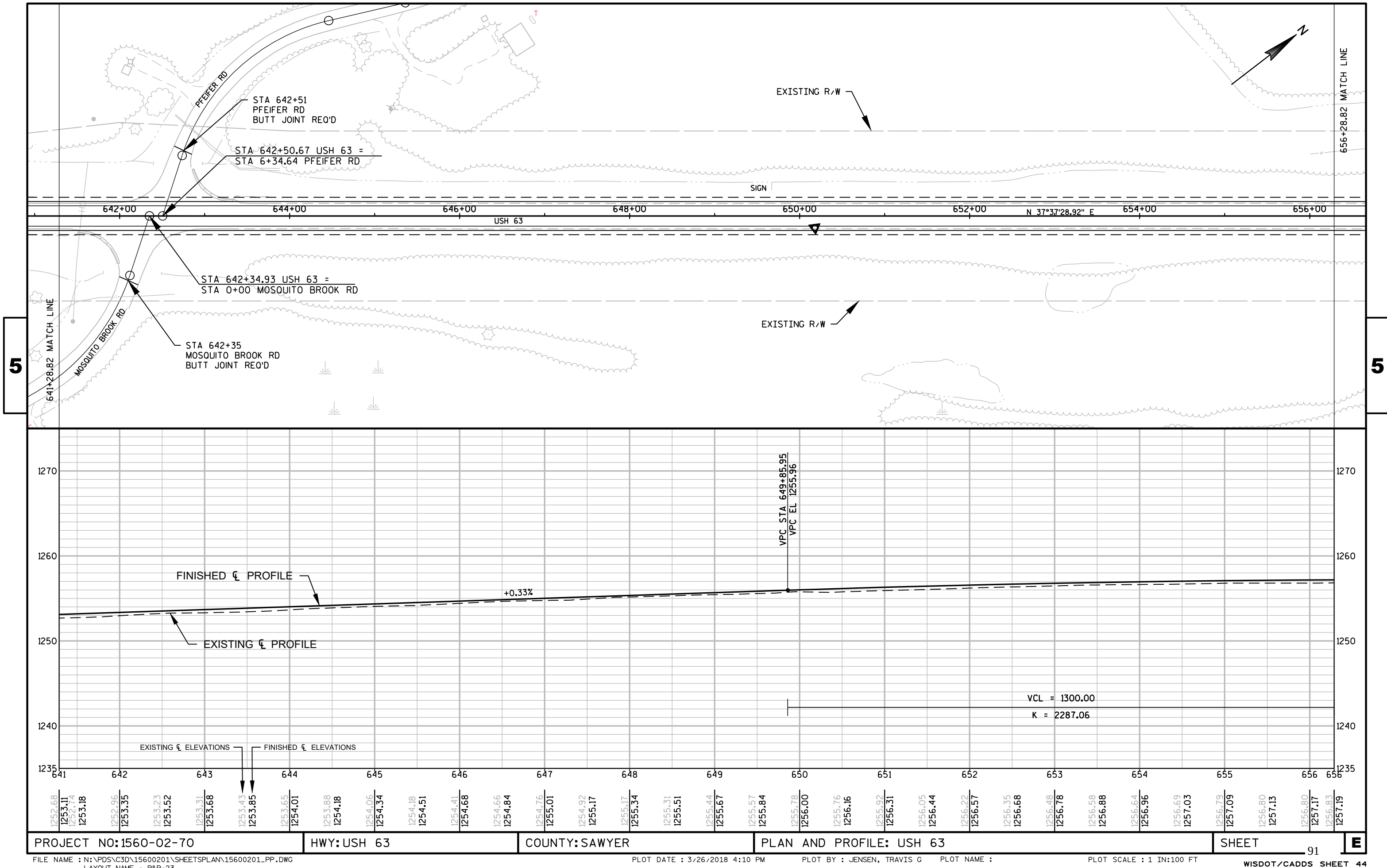
PROJECT NO:1560-02-70	HWY: USH 63	COUNTY: SAWYER	PLAN AND PROFILE: USH 63	SHEET 89
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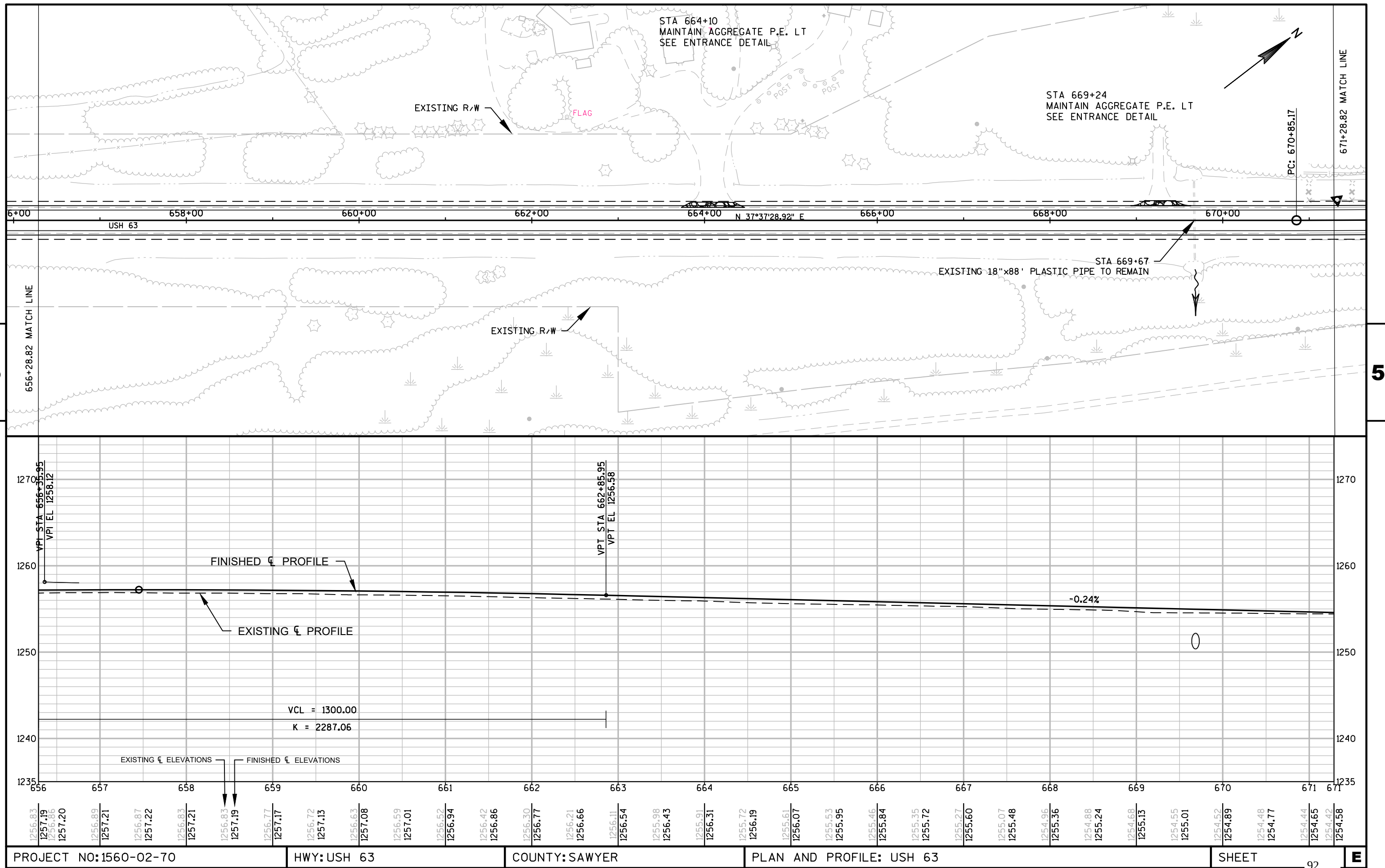
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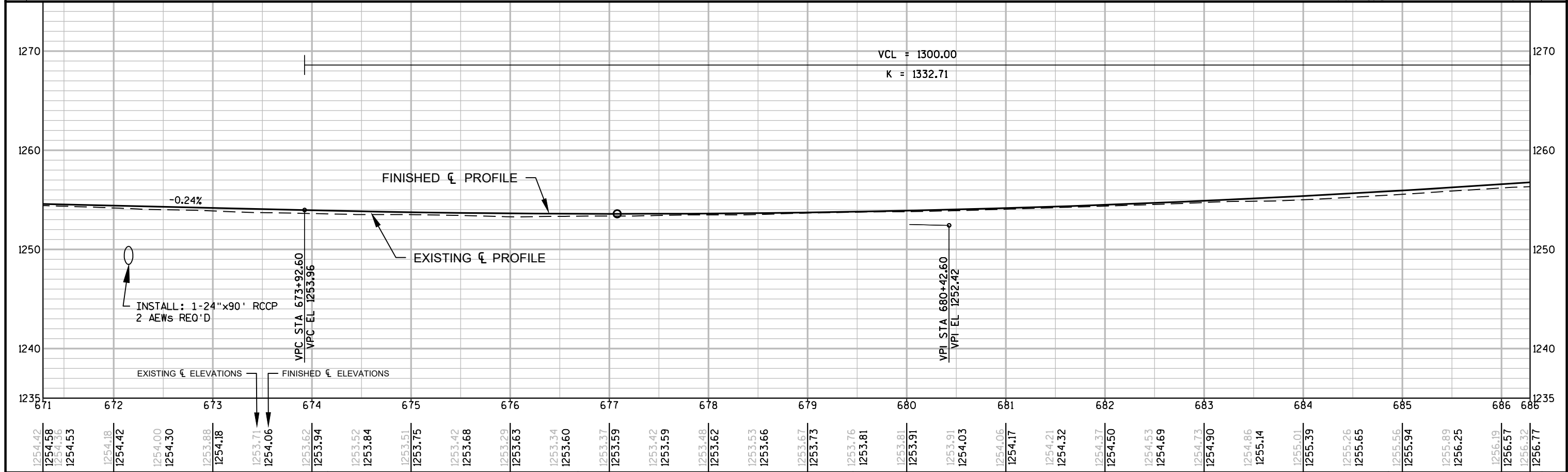
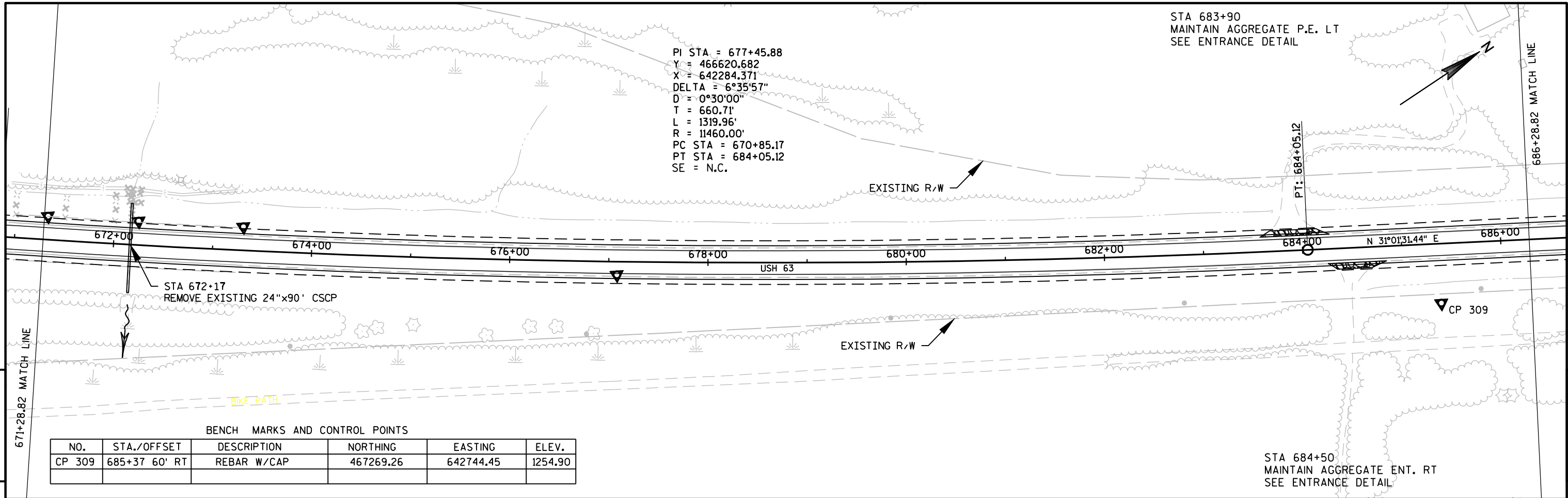


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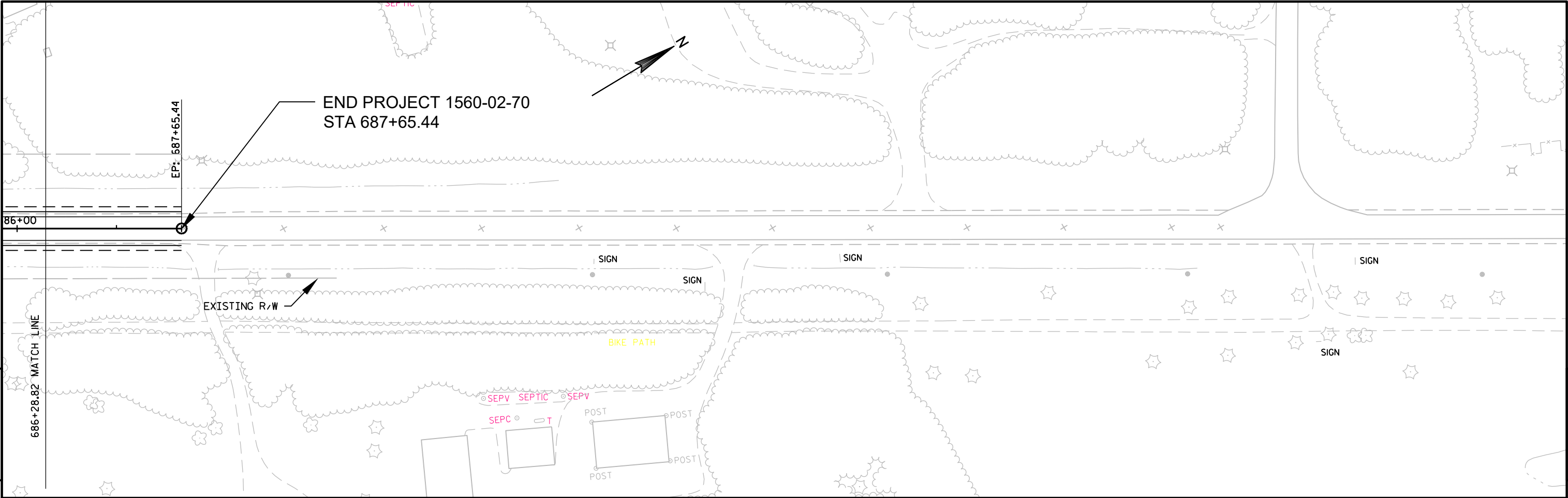








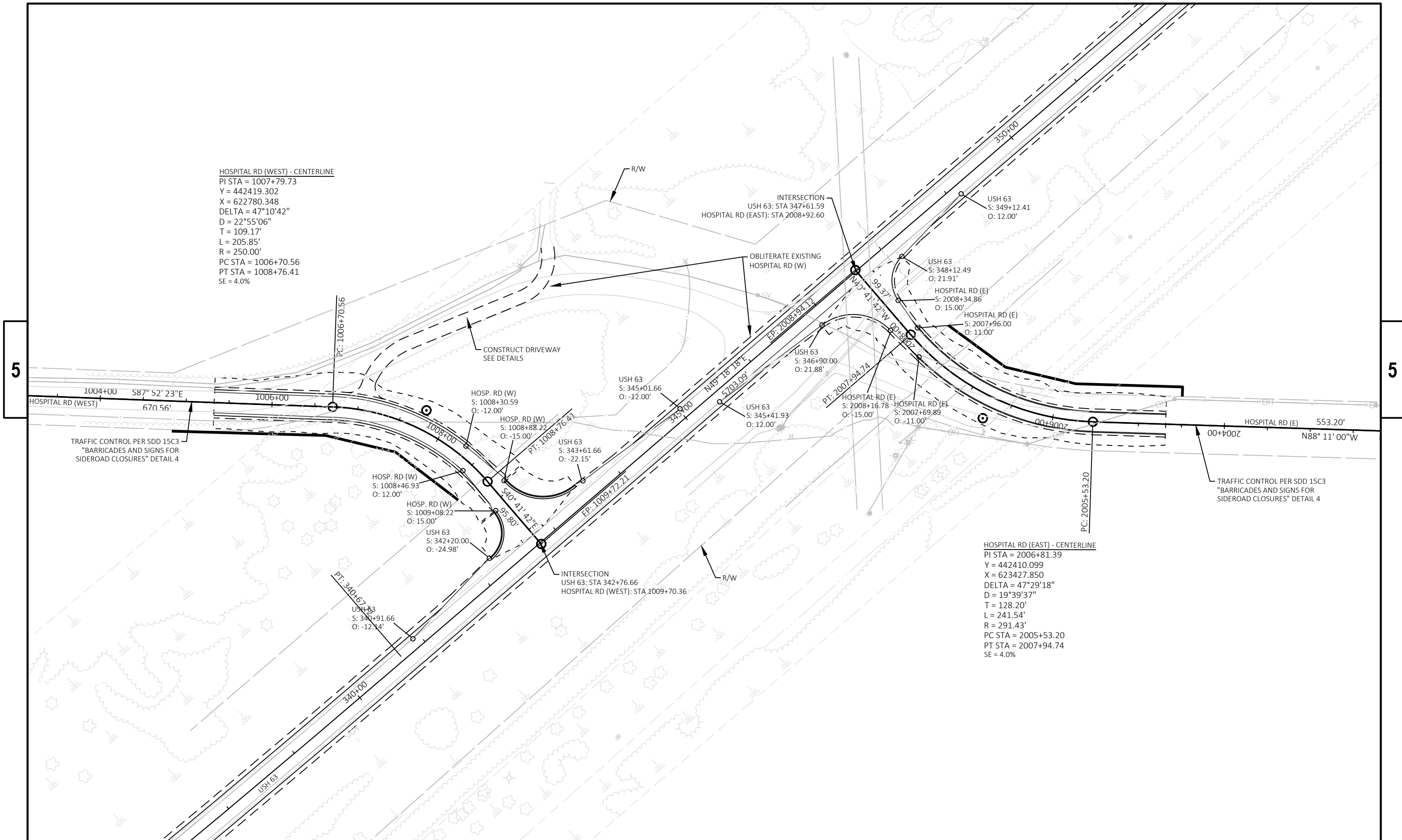
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5



PROJECT NO:1560-02-70	HWY: USH 63	COUNTY: SAWYER	PLAN AND PROFILE: USH 63	SHEET 94	E
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PROJECT NO: 1560-02-70

HWY: USH 63

COUNTY: SAWYER

HOSPITAL ROAD & AIRPORT ROAD ALIGNMENT OVERVIEW

SHEET

95

E

FILE NAME : N:\PDS\C3D\15600201\15600201_PP-HOSPITAL RD.DWG
LAYOUT NAME - OVERVIEW

PLOT DATE : 3/13/2018 4:18 PM

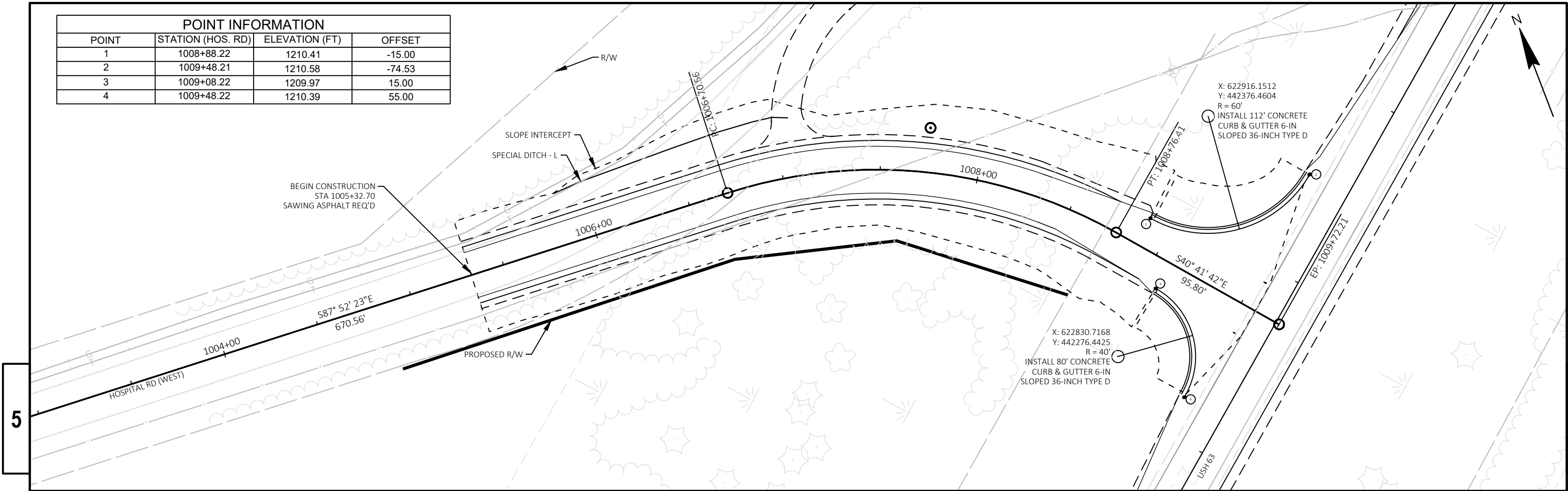
PLOT BY : JENSEN, TRAVIS G

PLOT NAME :

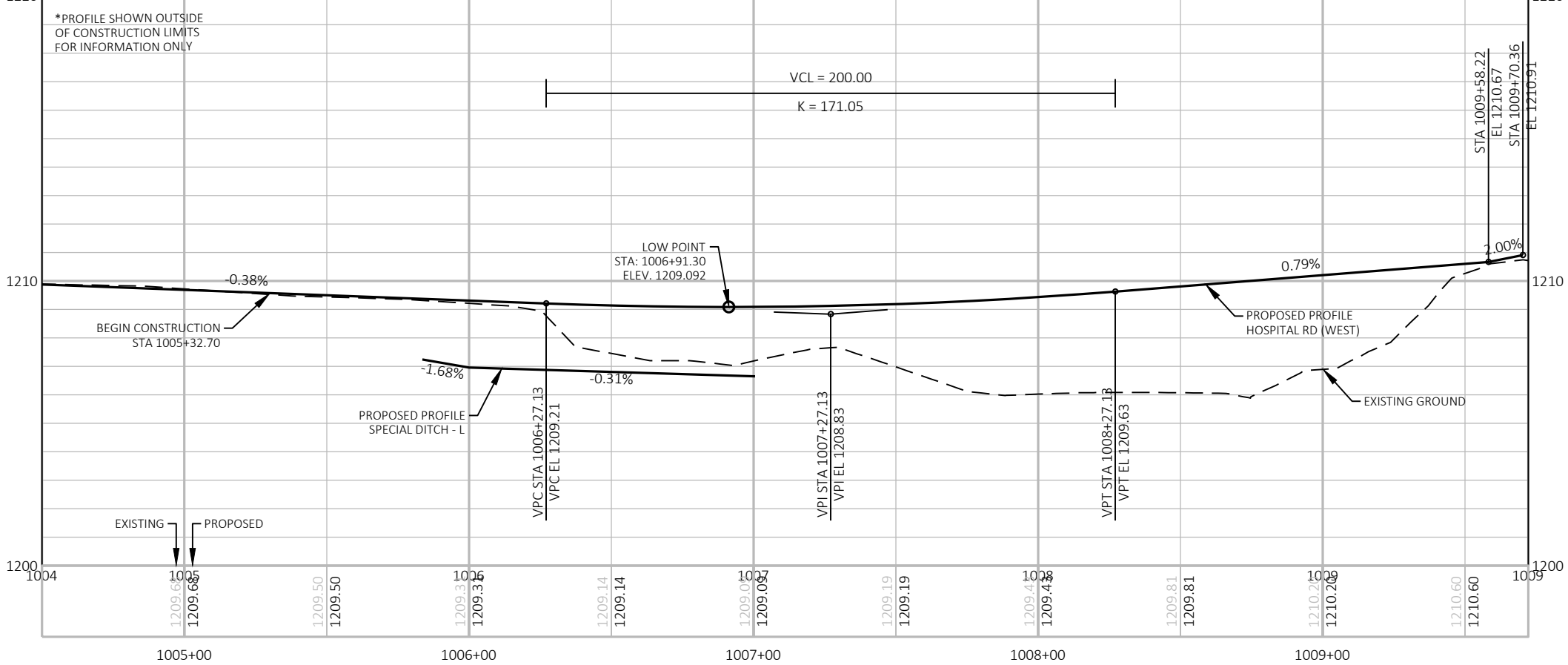
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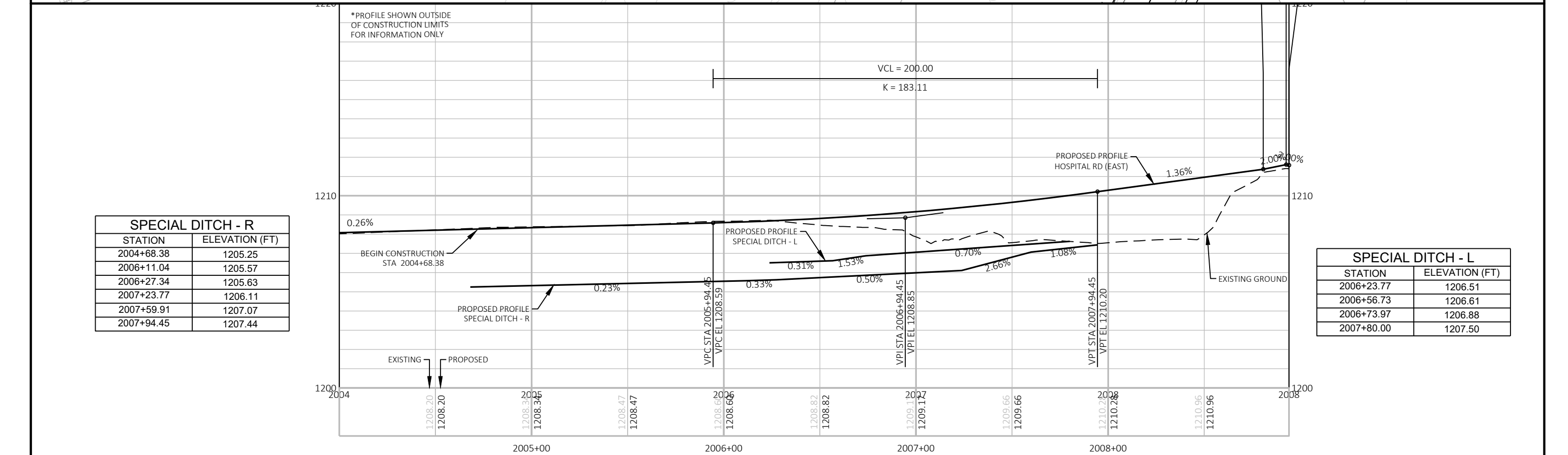
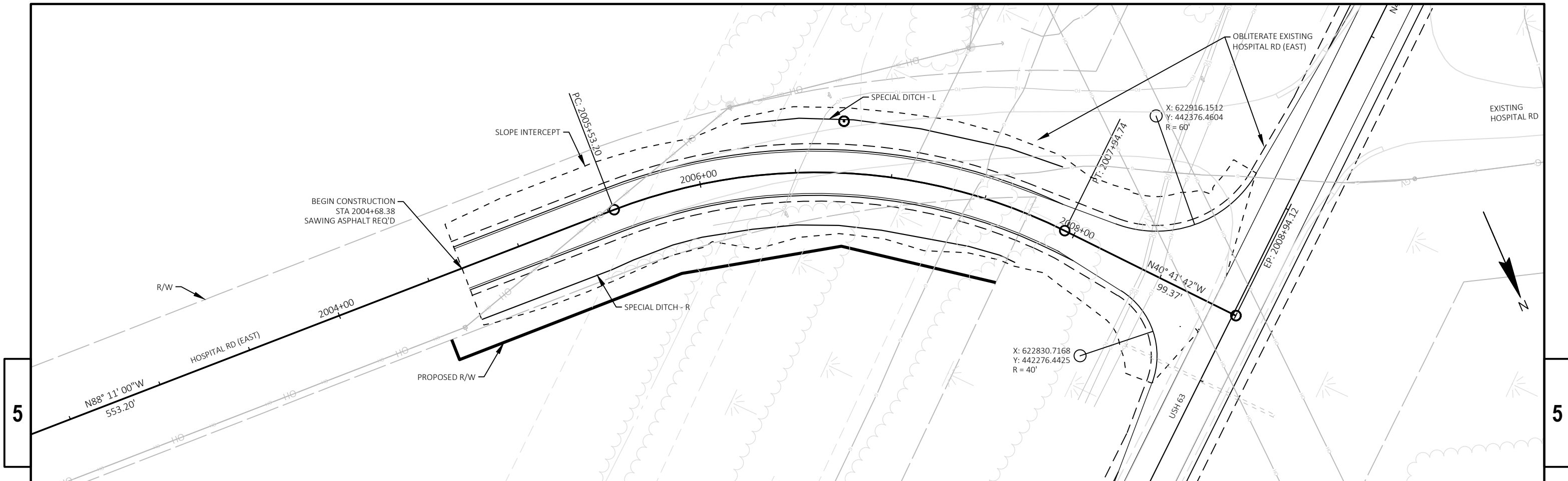
WISDOT/CADD5 SHEET 44

POINT INFORMATION			
POINT	STATION (HOS. RD)	ELEVATION (FT)	OFFSET
1	1008+88.22	1210.41	-15.00
2	1009+48.21	1210.58	-74.53
3	1009+08.22	1209.97	15.00
4	1009+48.22	1210.39	55.00



SPECIAL DITCH - L	
STATION	ELEVATION (FT)
1005+83.64	1207.24
1006+00.06	1206.96
1007+00.50	1206.65



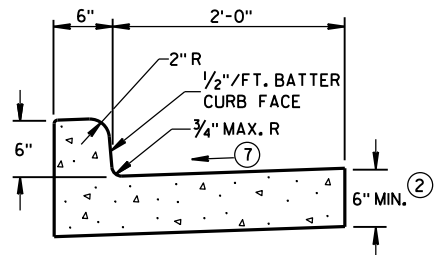


SPECIAL DITCH - R	
STATION	ELEVATION (FT)
2004+68.38	1205.25
2006+11.04	1205.57
2006+27.34	1205.63
2007+23.77	1206.11
2007+59.91	1207.07
2007+94.45	1207.44

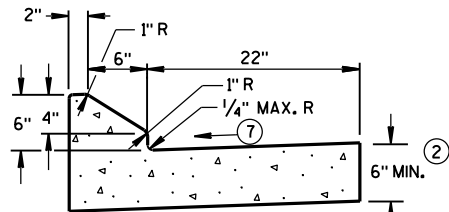
SPECIAL DITCH - L	
STATION	ELEVATION (FT)
2006+23.77	1206.51
2006+56.73	1206.61
2006+73.97	1206.88
2007+80.00	1207.50

Standard Detail Drawing List

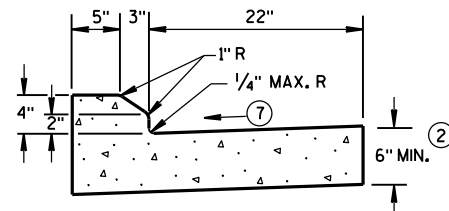
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
13A10-01A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B24-09A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B27-01A	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01B	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B27-01C	STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
14B29-01	SAFETY EDGE
14B42-05A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-03A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-04	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-04	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C08-18B	PAVEMENT MARKING (TURN LANES)
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-02A	PAVEMENT MARKING (INTERSECTIONS)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



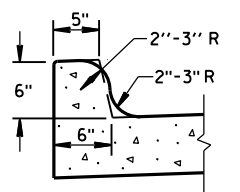
TYPES A^① & D



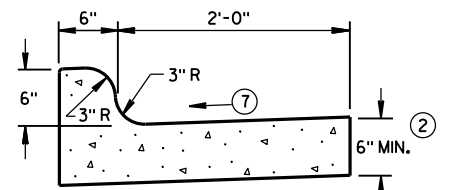
6" SLOPED CURB TYPES G^① & J



4" SLOPED CURB TYPES G^① & J

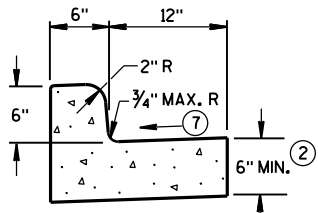


TYPES K^① & L
(OPTIONAL CURB SHAPE)



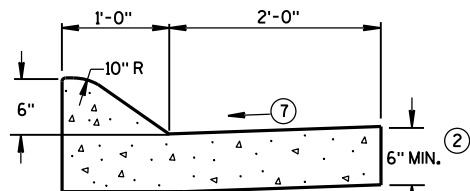
TYPES K^① & L

CONCRETE CURB & GUTTER 30"

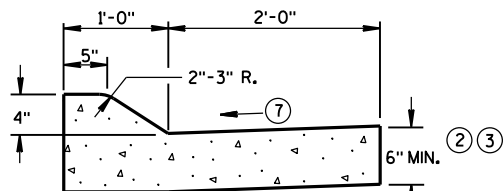


TYPES A^① & D

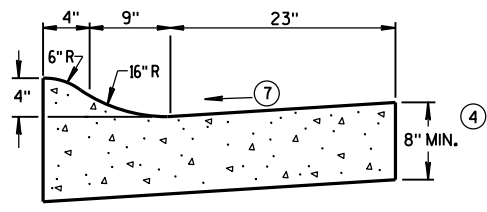
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A^① & D

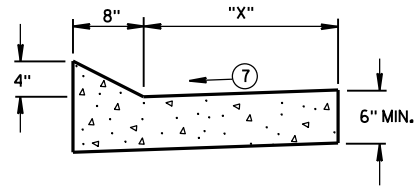


4" SLOPED CURB TYPES A^① & D



4" SLOPED CURB TYPES R^① & T^⑤

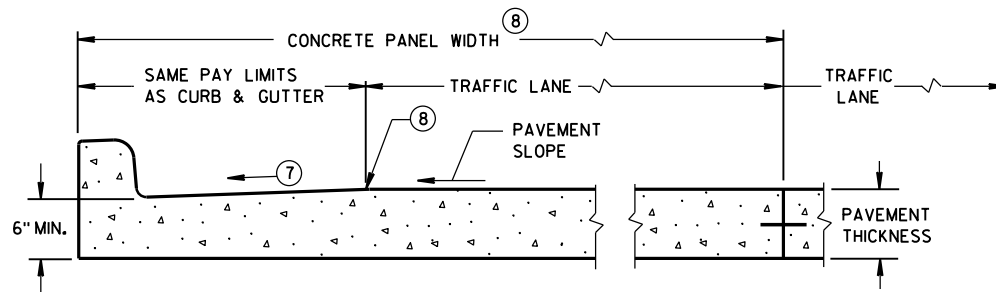
CONCRETE CURB & GUTTER 36"



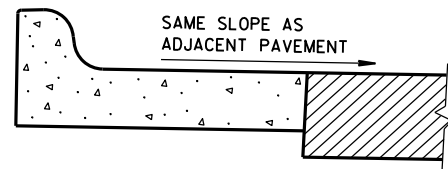
TYPES TBT & TBTT^①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"



PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



REVERSE SLOPE GUTTER^⑥
(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.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
- ④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- ⑦ USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- ⑧ INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

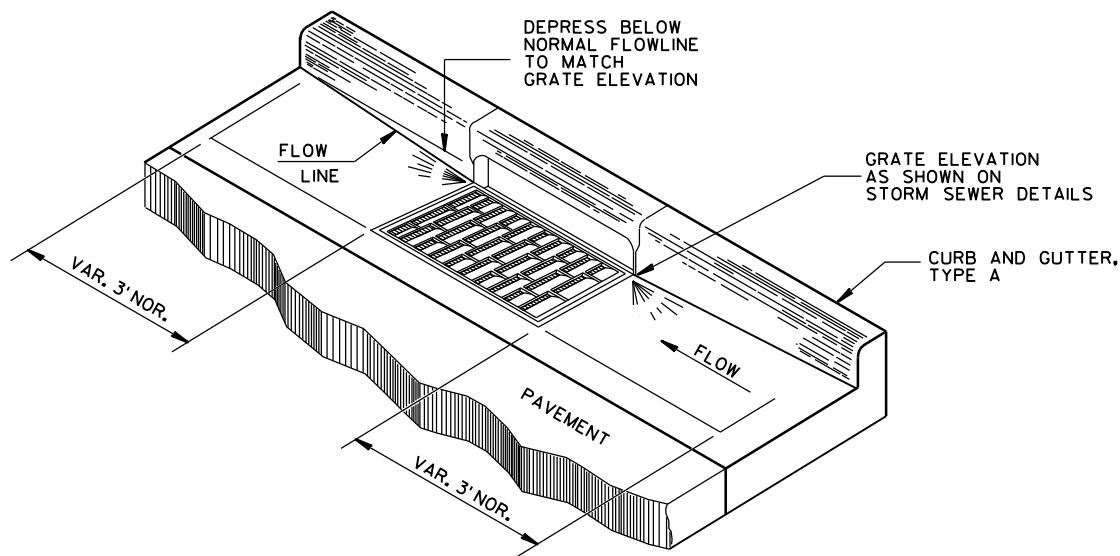
PAVEMENT THICKNESS
AND MAXIMUM CONCRETE
PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

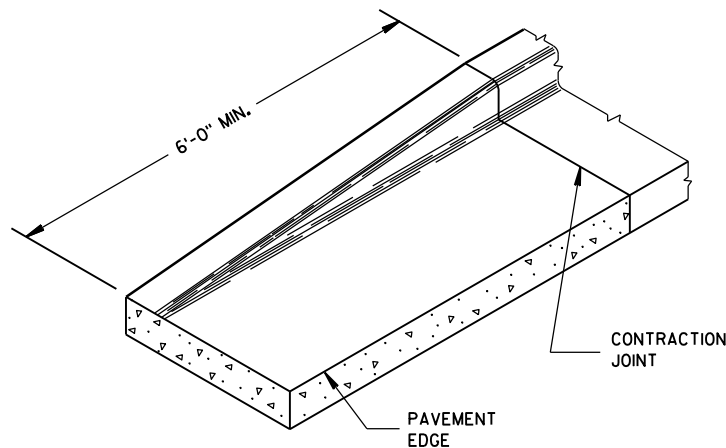
* BIKE LANE IS NOT SHOWN.

CONCRETE CURB & GUTTER

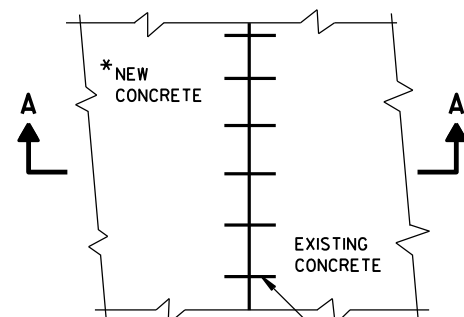
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



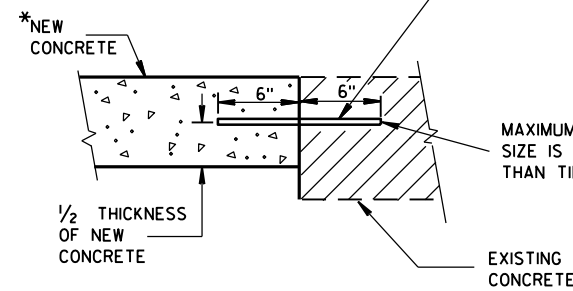
DETAIL OF CURB AND GUTTER AT INLETS
(TYPE H INLET COVER SHOWN)



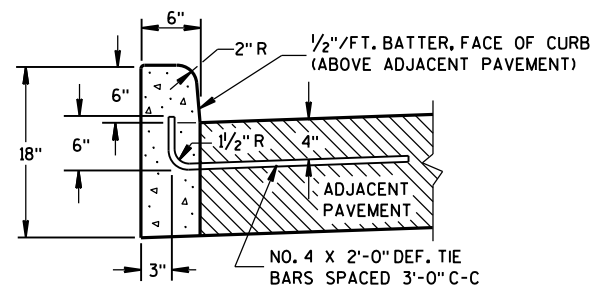
END SECTION CURB & GUTTER



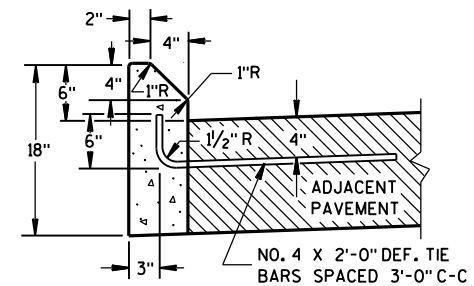
PLAN VIEW



SECTION A-A
TIE BARS DRILLED
INTO EXISTING PAVEMENT



TYPES A^① & D



TYPES G^① & J

GENERAL NOTES

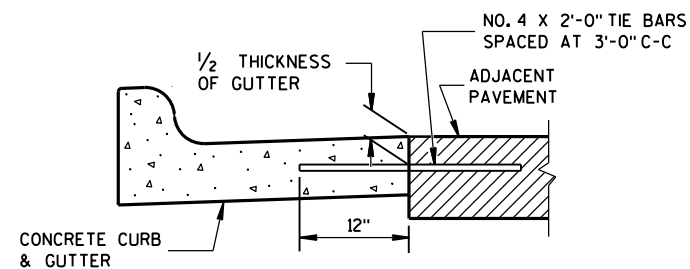
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

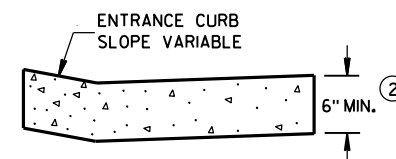
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ⑨ REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

CONCRETE CURB



TYPICAL TIE BAR LOCATION^①



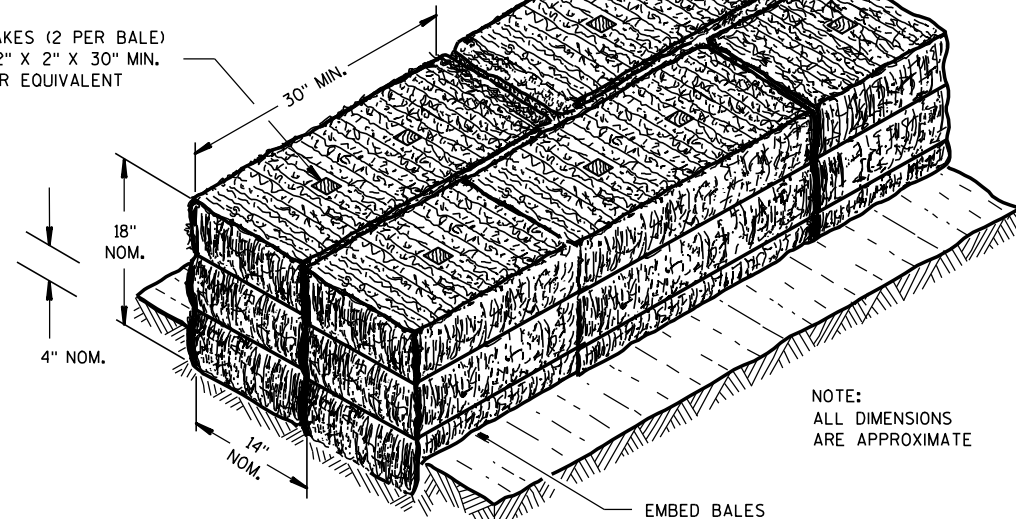
DRIVEWAY ENTRANCE CURB^⑨
(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS 100
UNIT SUPERVISOR
ENT
FHWA

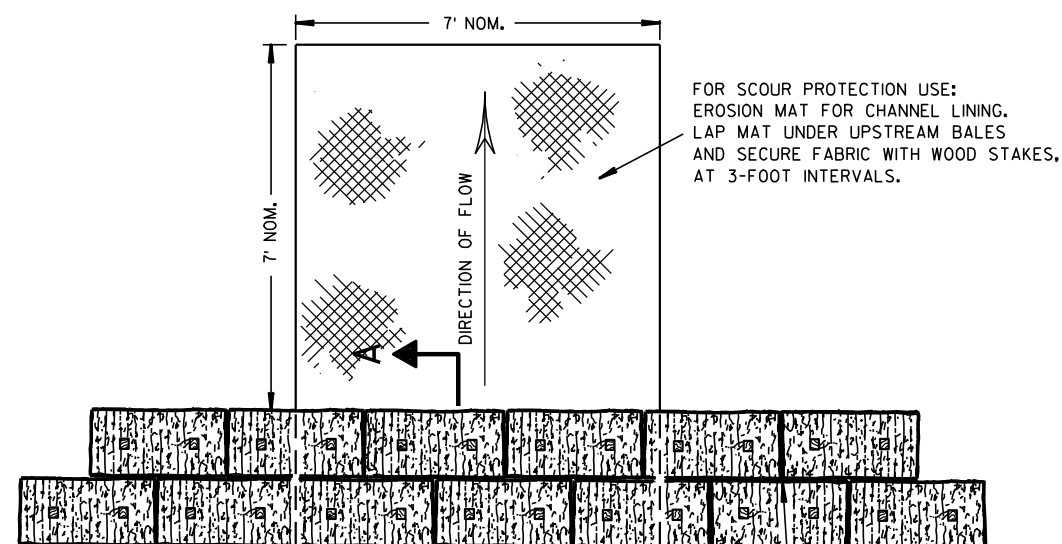
WOOD STAKES (2 PER BALE)
NOMINAL 2" X 2" X 30" MIN.
LENGTH OR EQUIVALENT



NOTE:
ALL DIMENSIONS
ARE APPROXIMATE

EMBED BALES

SECTION A-A

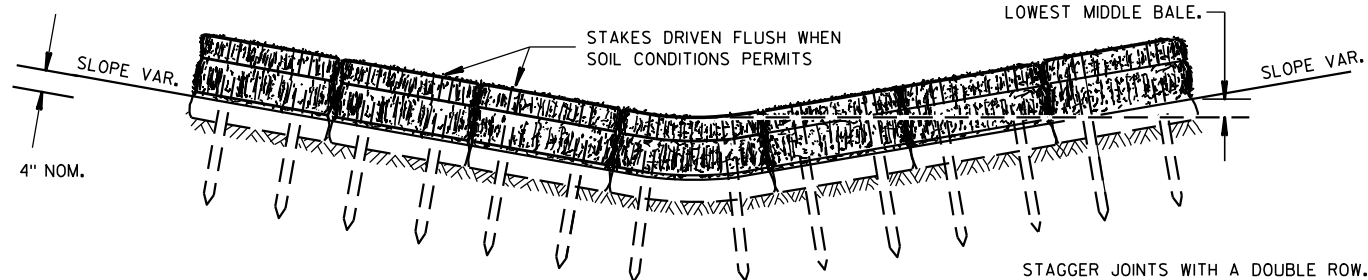


FOR SCOUR PROTECTION USE:
EROSION MAT FOR CHANNEL LINING.
LAP MAT UNDER UPSTREAM BALES
AND SECURE FABRIC WITH WOOD STAKES,
AT 3-FOOT INTERVALS.

PLAN VIEW

STAGGER JOINTS BETWEEN ADJACENT
ROWS OF BALES.

BOTTOM ELEVATION OF END BALE SHALL
BE EQUAL TO OR GREATER THAN TOP OF
LOWEST MIDDLE BALE.



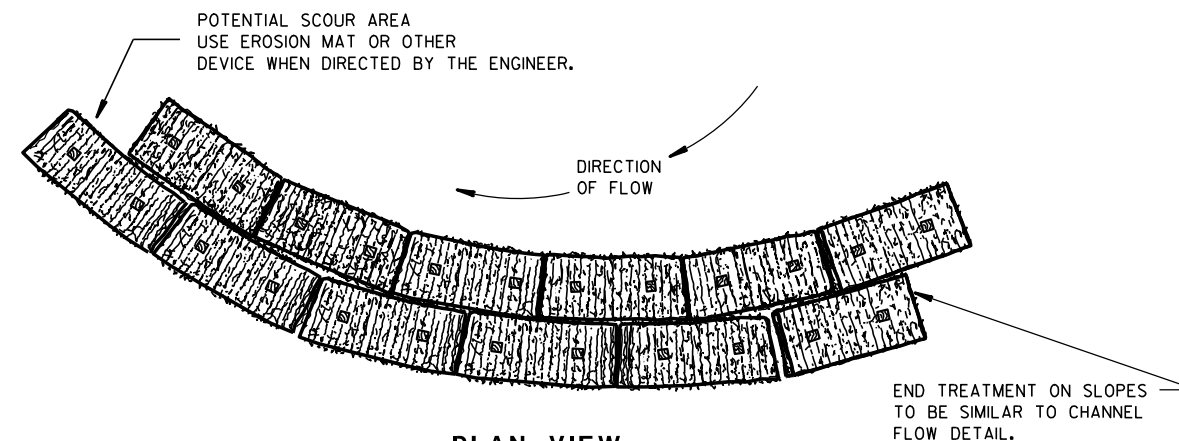
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

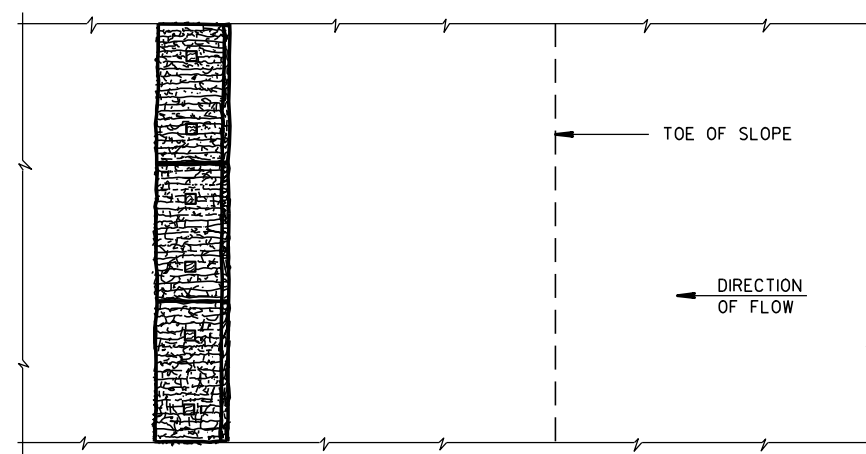
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- 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.

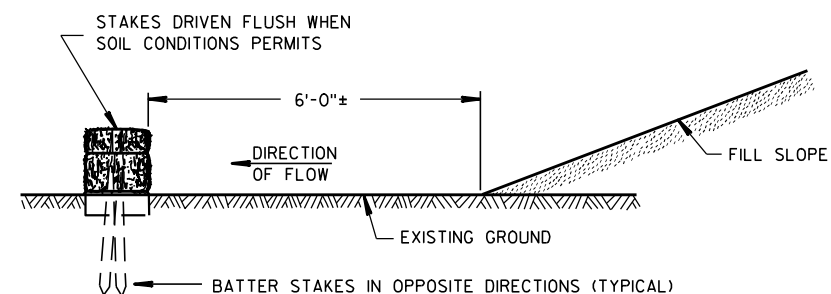


PLAN VIEW

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

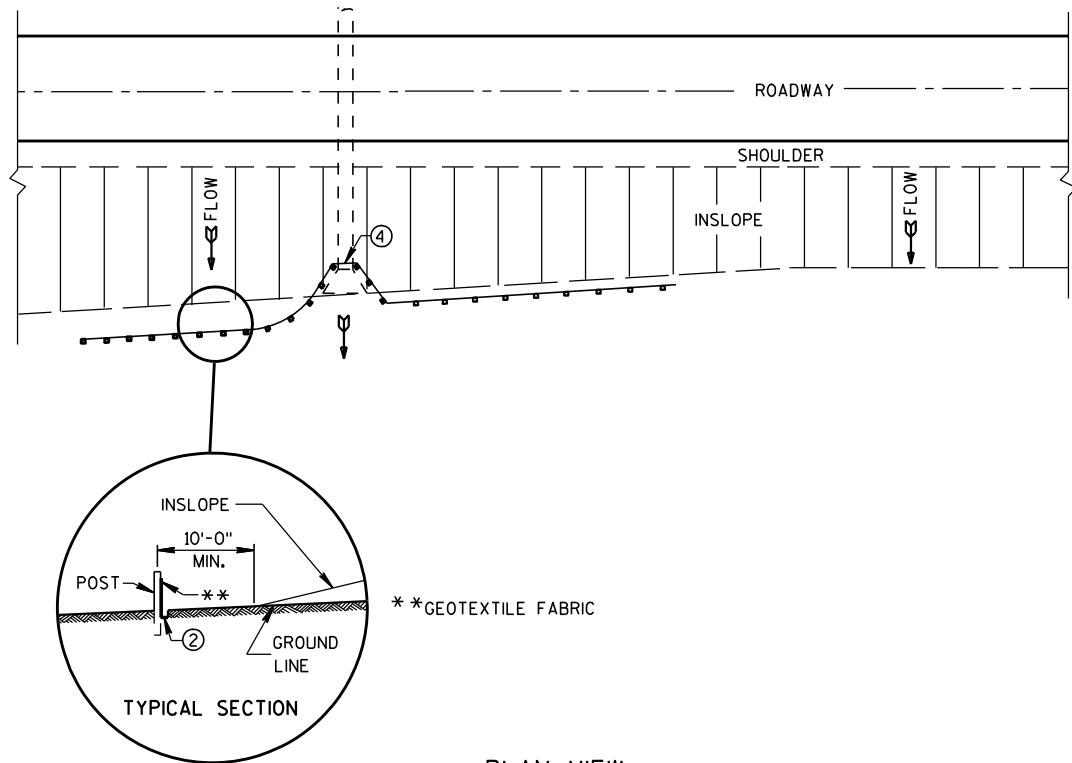
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

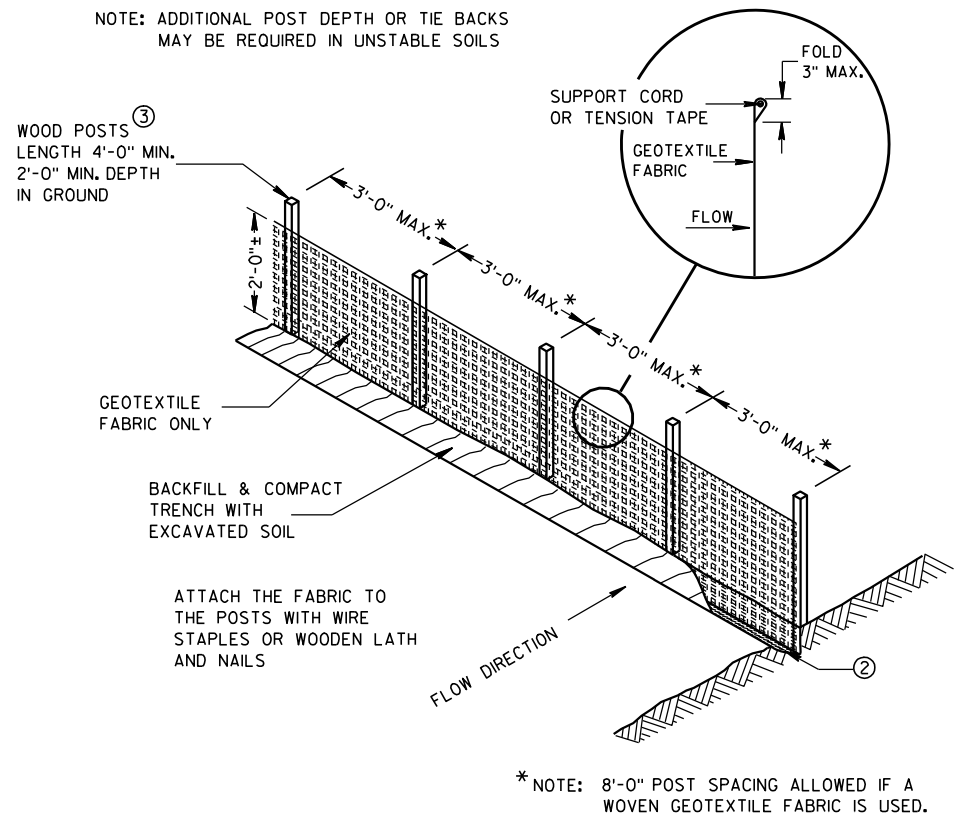
6/04/02
DATE

/S/ Beth Conn-----
CHIEF ROADWAY DEVELOPER 101 ENGINEER

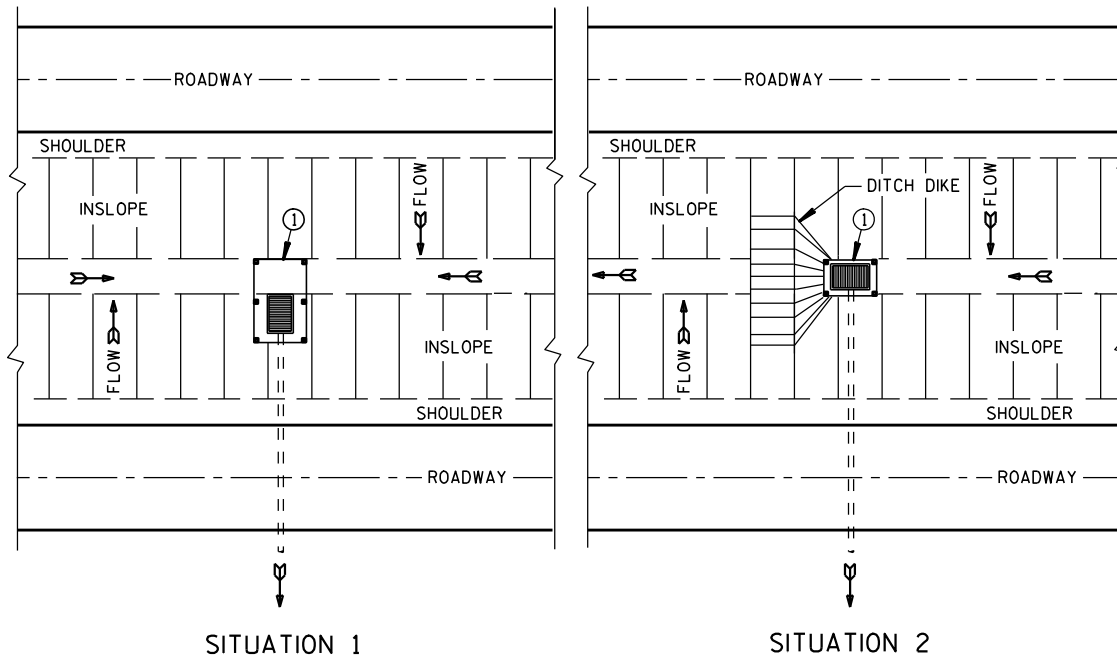
FHWA



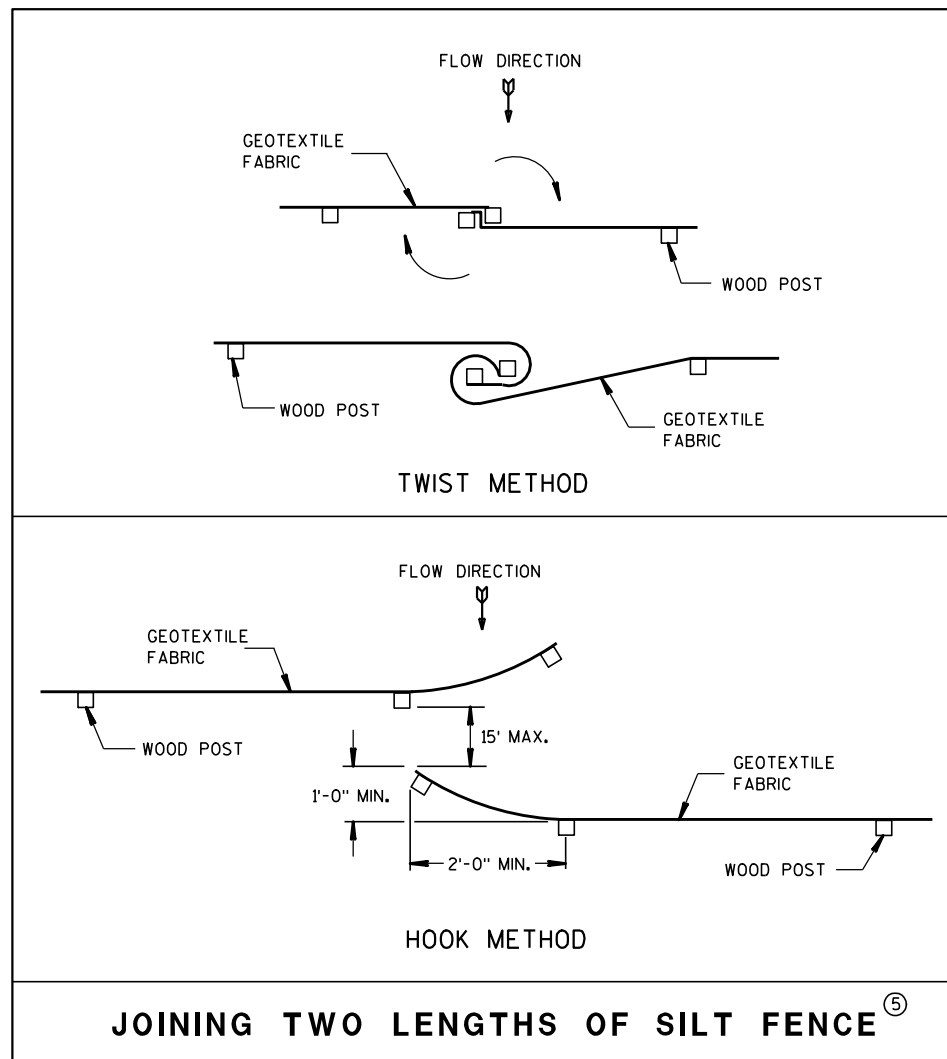
PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE



SILT FENCE



PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

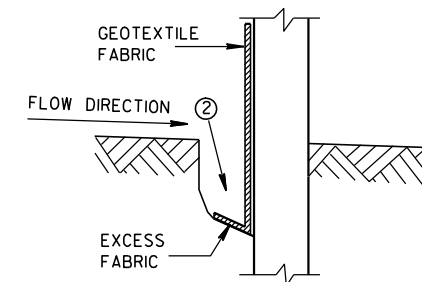


JOINING TWO LENGTHS OF SILT FENCE (5)

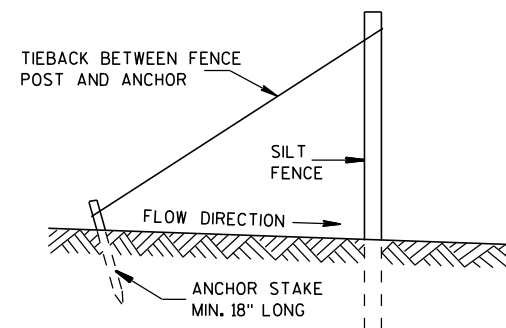
GENERAL NOTES

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 1 1/8" X 1 1/8" 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

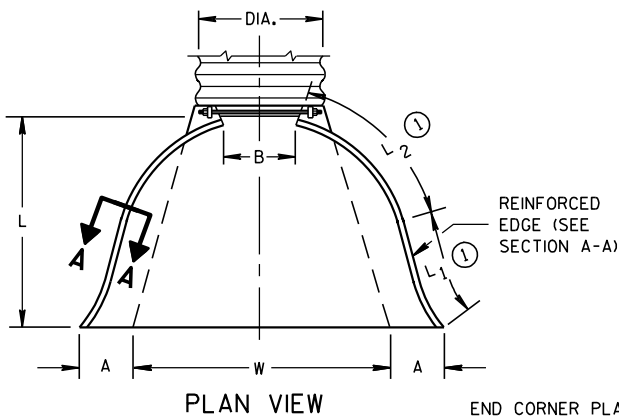


SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

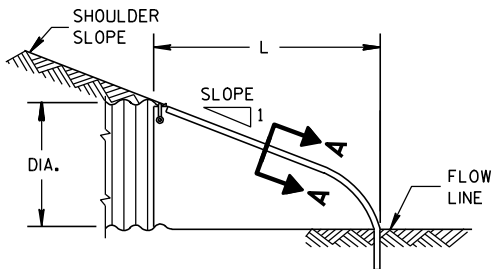
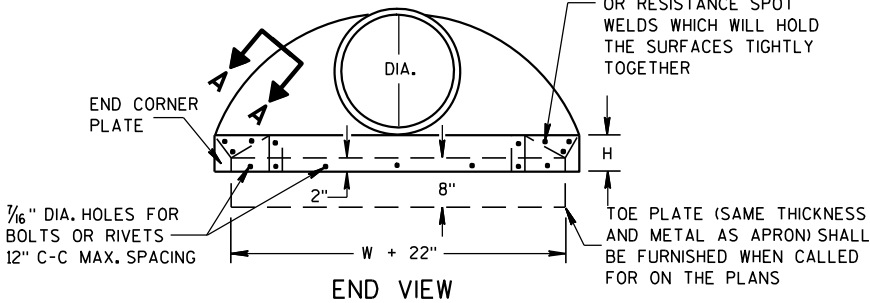
SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-29-05 DATE	/S/ Beth Conn CHIEF ROADWAY DEVELOPER
FHWA	102 INEER

METAL APRON ENDWALLS												
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE		BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")			
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1		1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1		1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1		1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1		1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1		1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1		1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1		2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1		2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1		3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1		3 Pc.
60	.109x	.105x	18	33	12	87	—	—	114	2 to 1		3 Pc.
66	.109x	.105x	18	36	12	87	—	—	120	2 to 1		3 Pc.
72	.109x	.105x	18	39	12	87	—	—	126	2 to 1		3 Pc.
78	.109x	.105x	18	42	12	87	—	—	132	1 1/2 to 1		3 Pc.
84	.109x	.105x	18	45	12	87	—	—	138	1 1/2 to 1		3 Pc.
90	.109x	.105x	18	37	12	87	—	—	144	1 1/2 to 1		3 Pc.
96	.109x	.105x	18	35	12	87	—	—	150	1 1/2 to 1		3 Pc.

* EXCEPT CENTER PANEL
SEE GENERAL NOTES



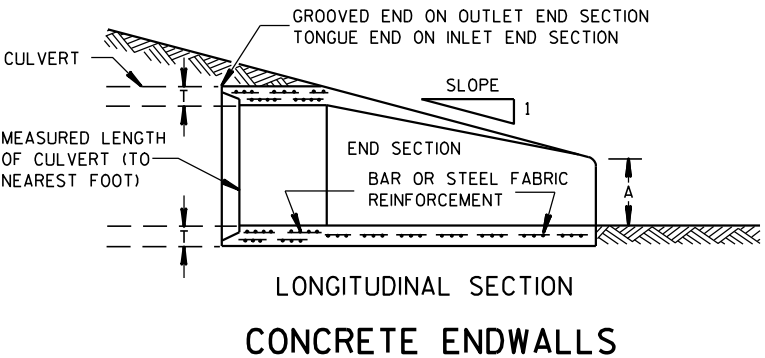
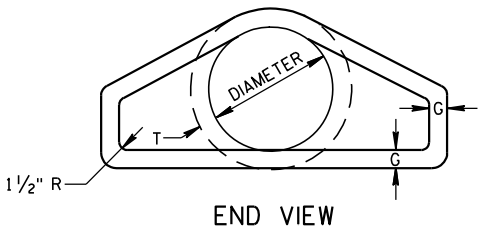
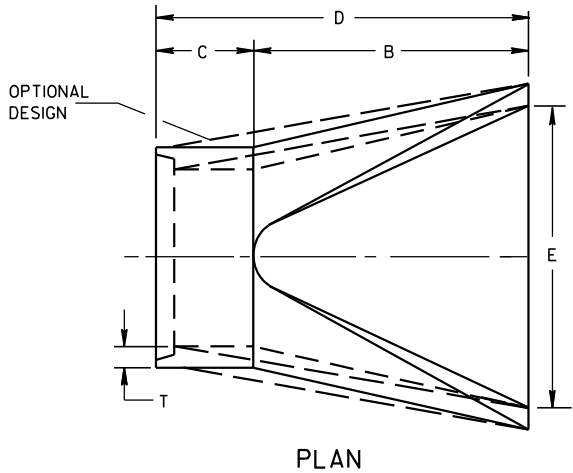
END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER



SIDE ELEVATION
METAL ENDWALLS

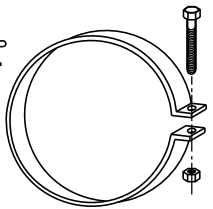
REINFORCED CONCRETE APRON ENDWALLS												
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE				
	T	A	B	C	D	E	G					
12	2	4	24	48 7/8	72 7/8	24	2	3 to 1				
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1				
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1				
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1				
24	3	9 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

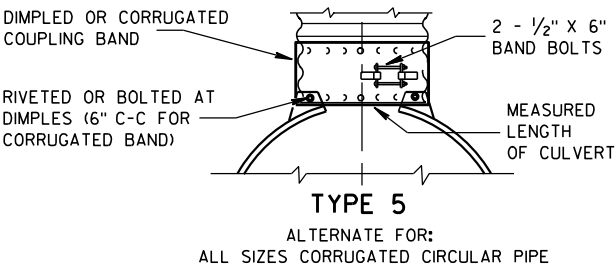
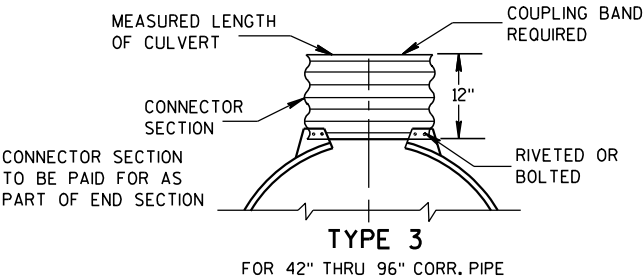
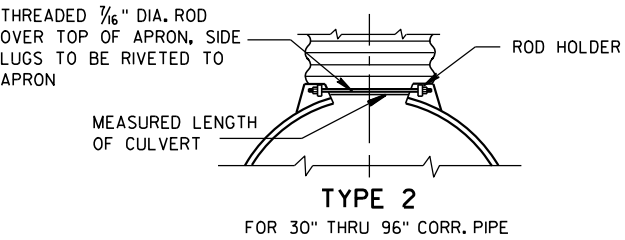
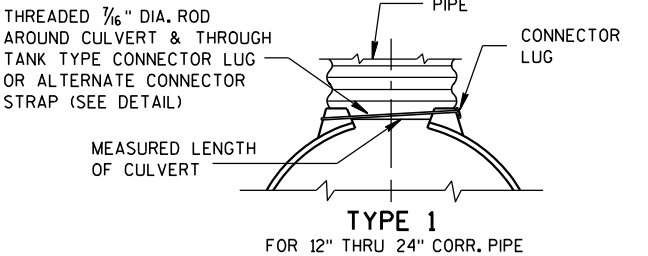


LONGITUDINAL SECTION
CONCRETE ENDWALLS

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT



ALTERNATE FOR TYPE 1 CONNECTION
END SECTION CONNECTOR STRAP



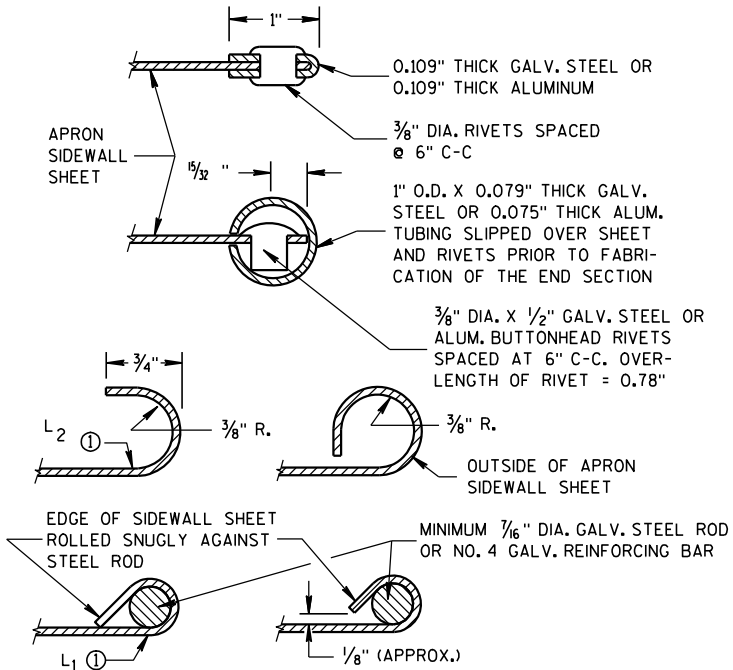
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

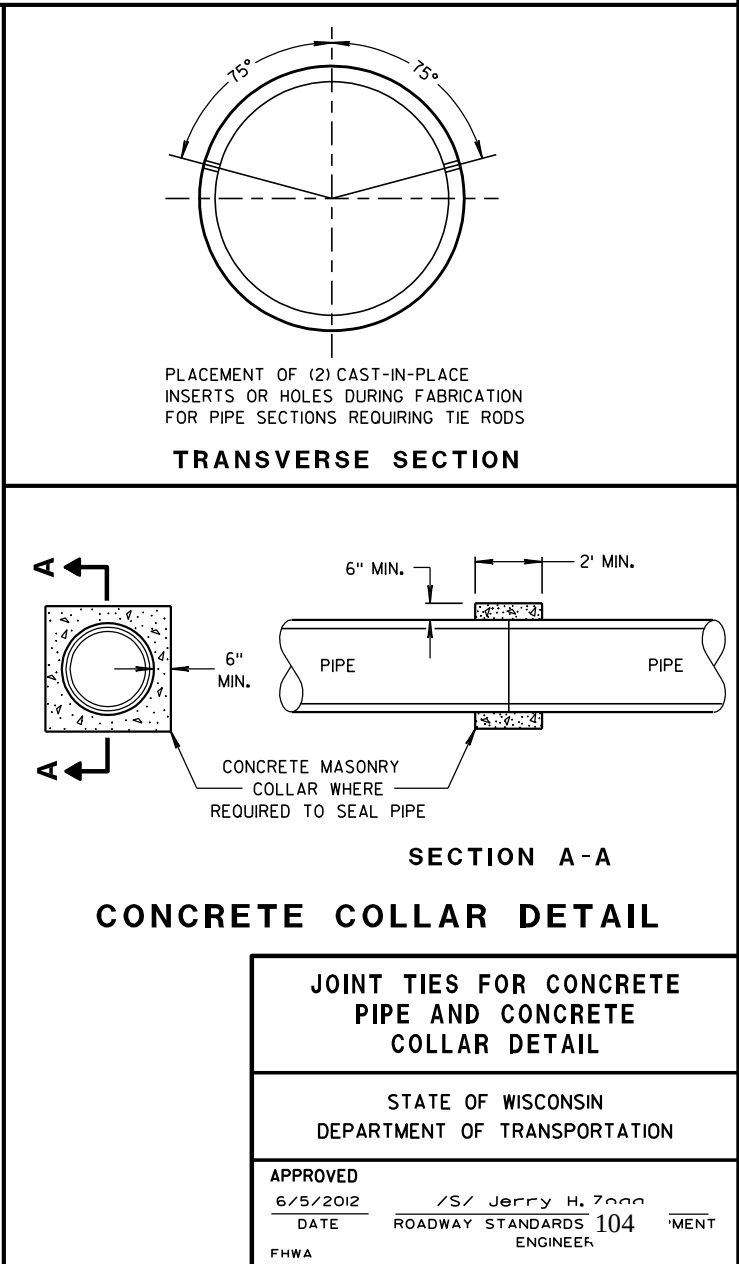
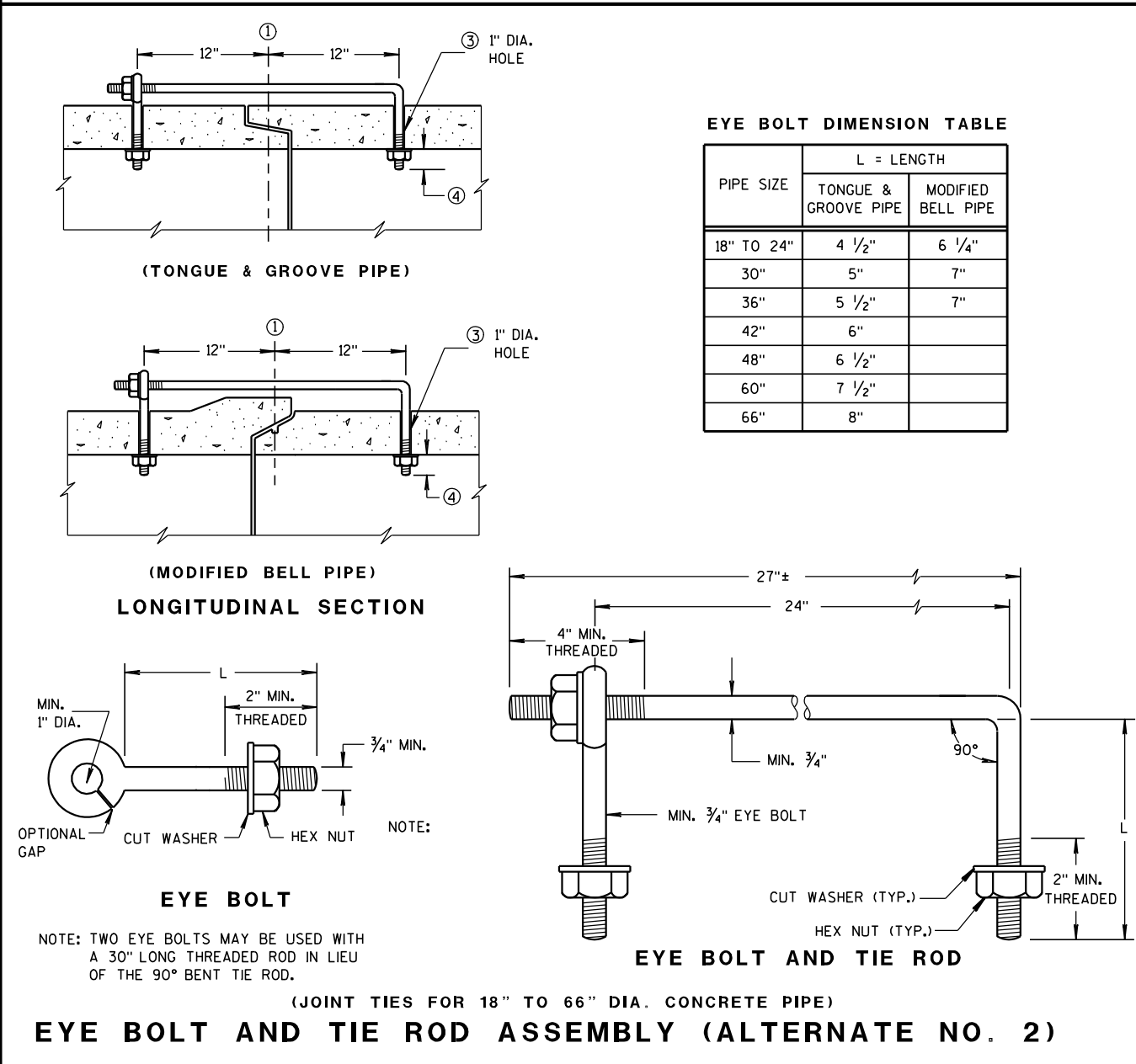
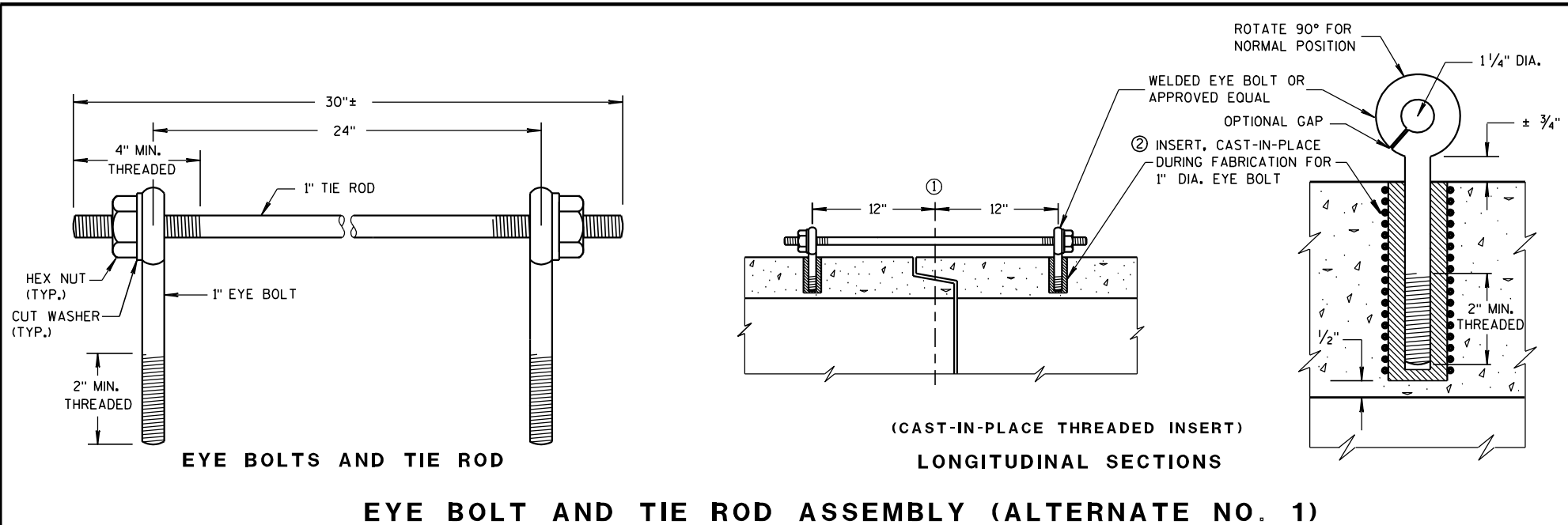
ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

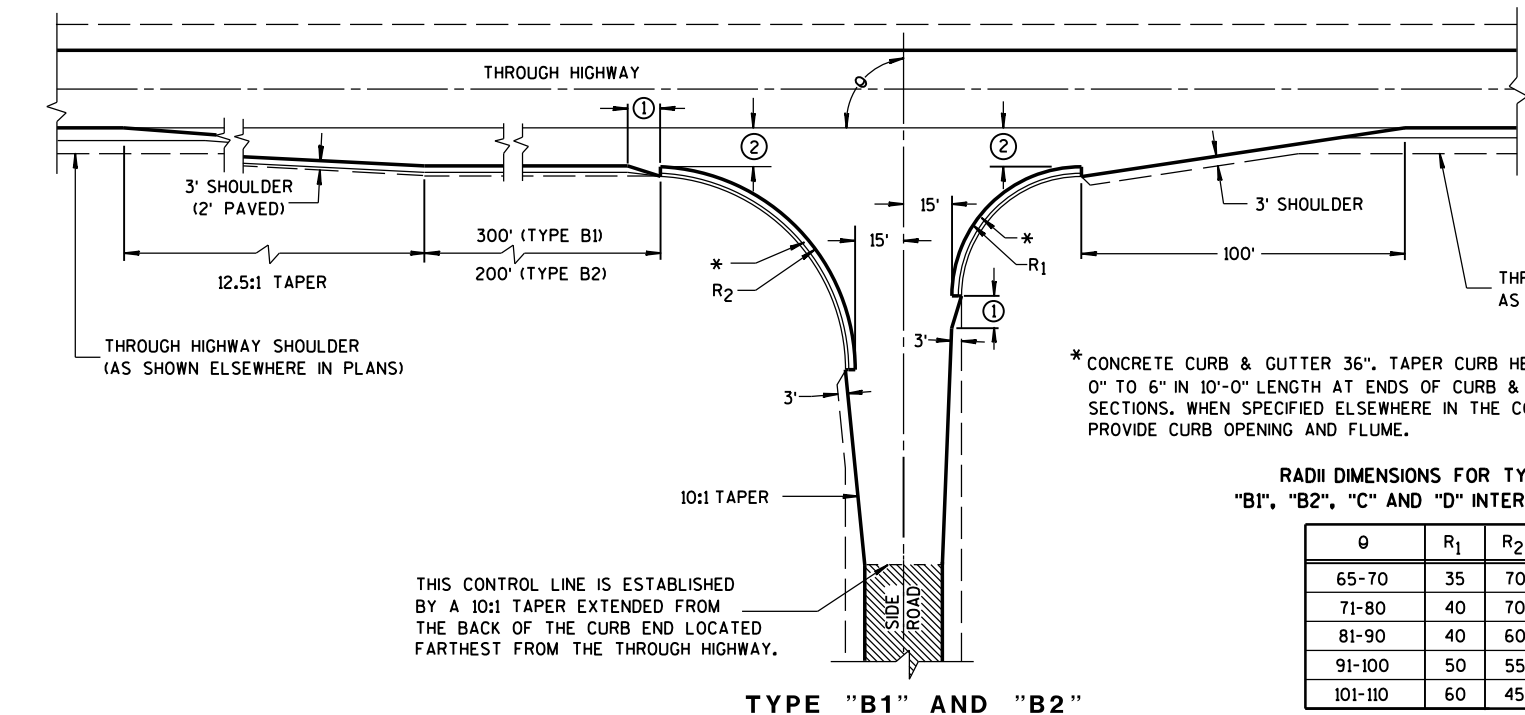
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. 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. Rhin... CHIEF ROADWAY DEVELOP	103	NEER
FHWA			





GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

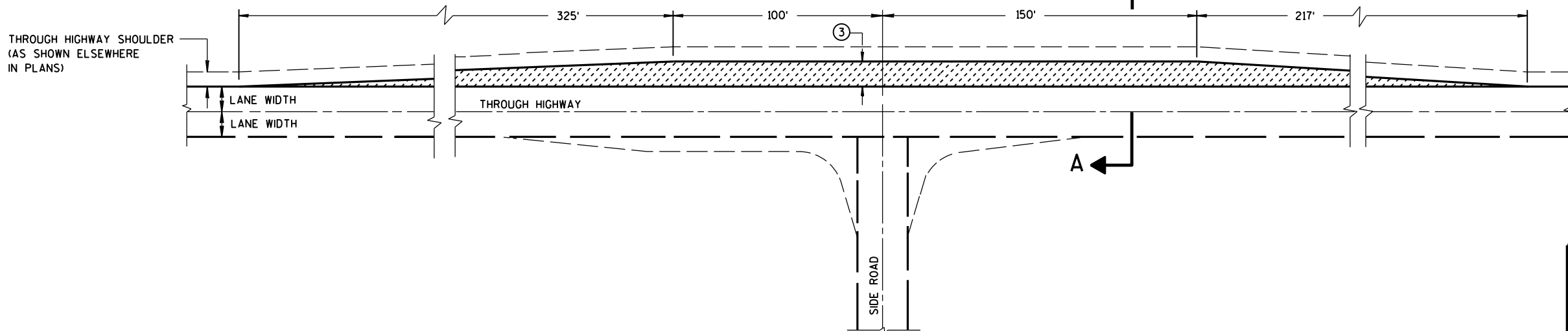
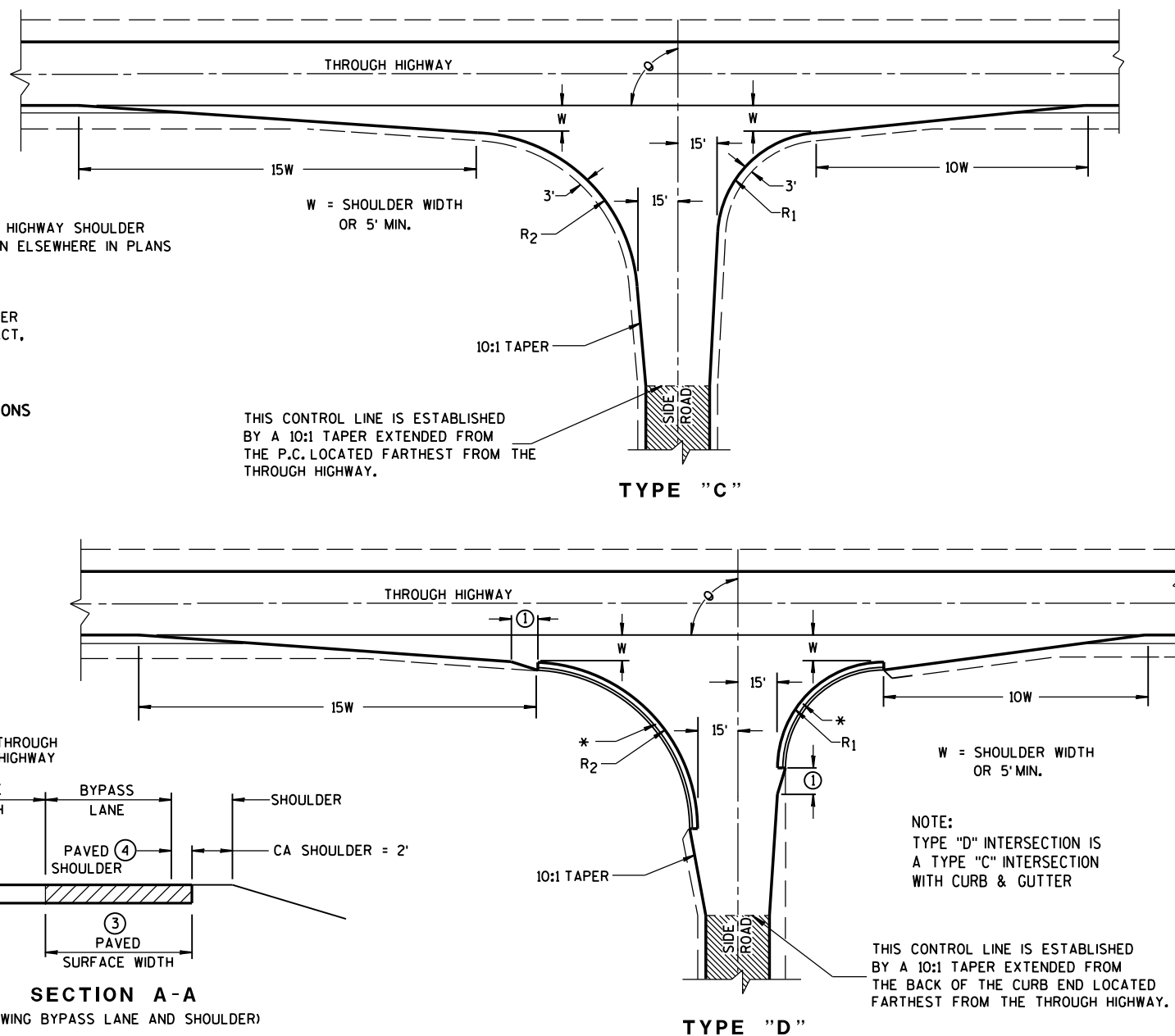
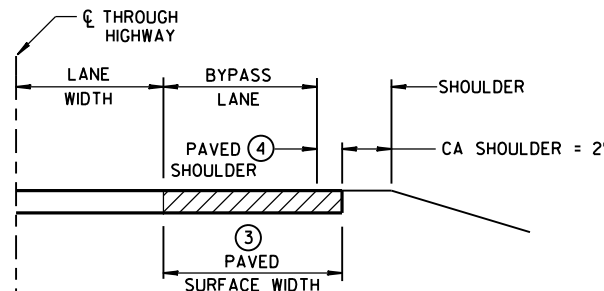
WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

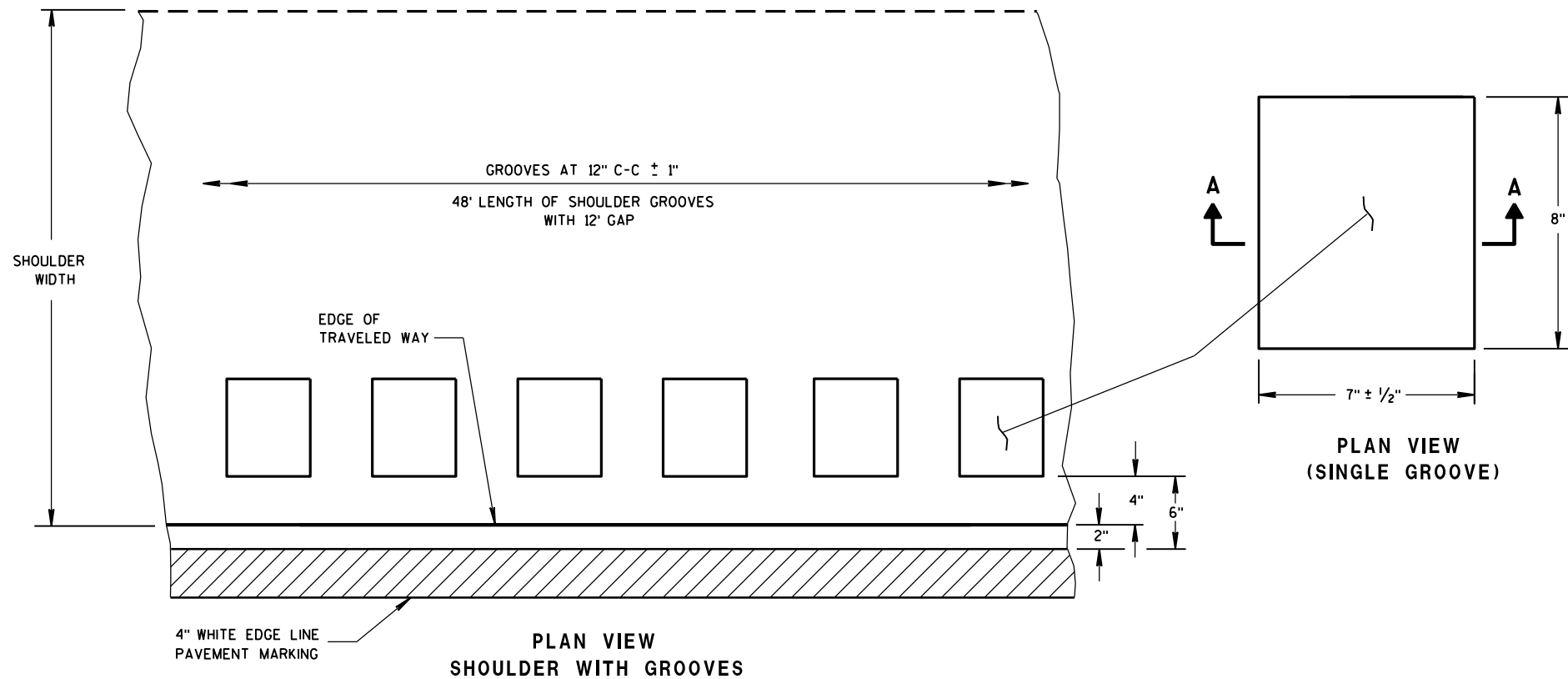
- 10-FT TYPICAL.
- 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.
- BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.
- BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



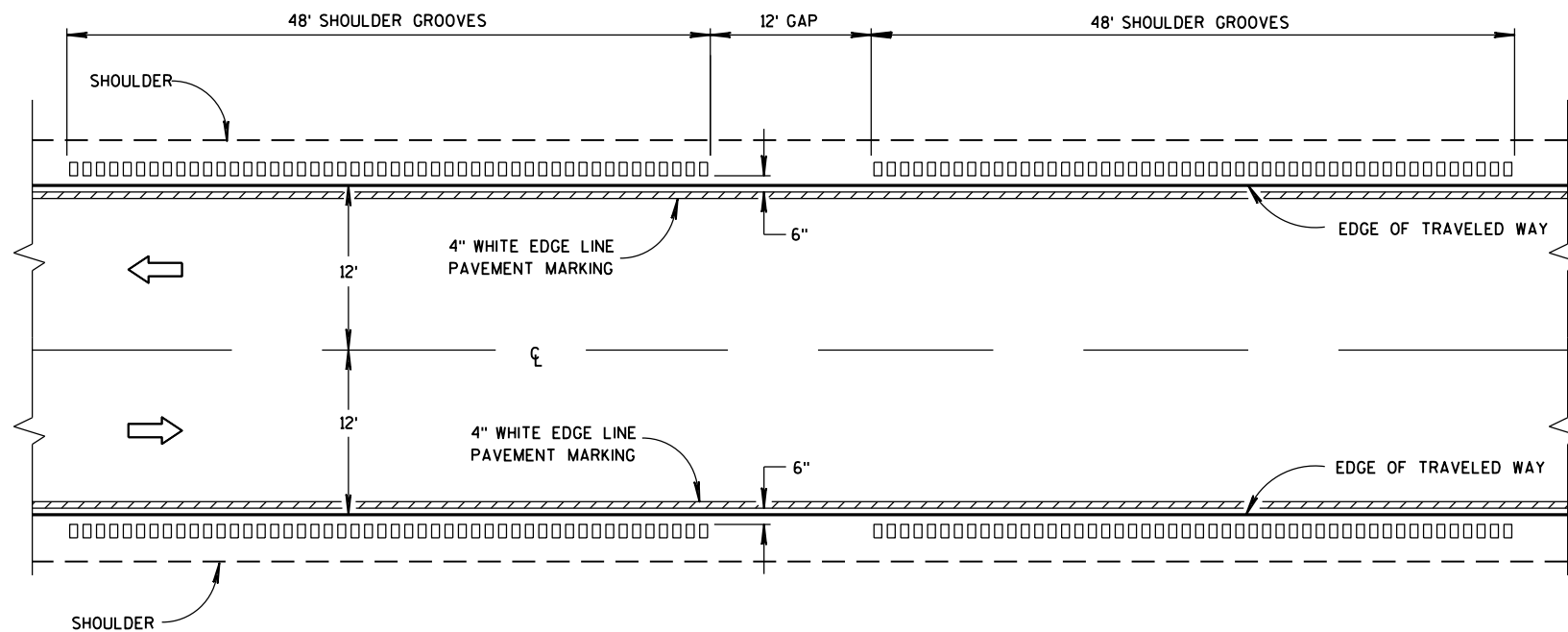
AT-GRADE SIDE ROAD
INTERSECTION, TYPES "B1", "B2",
"C" AND "D" AND TEE
INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



6

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP



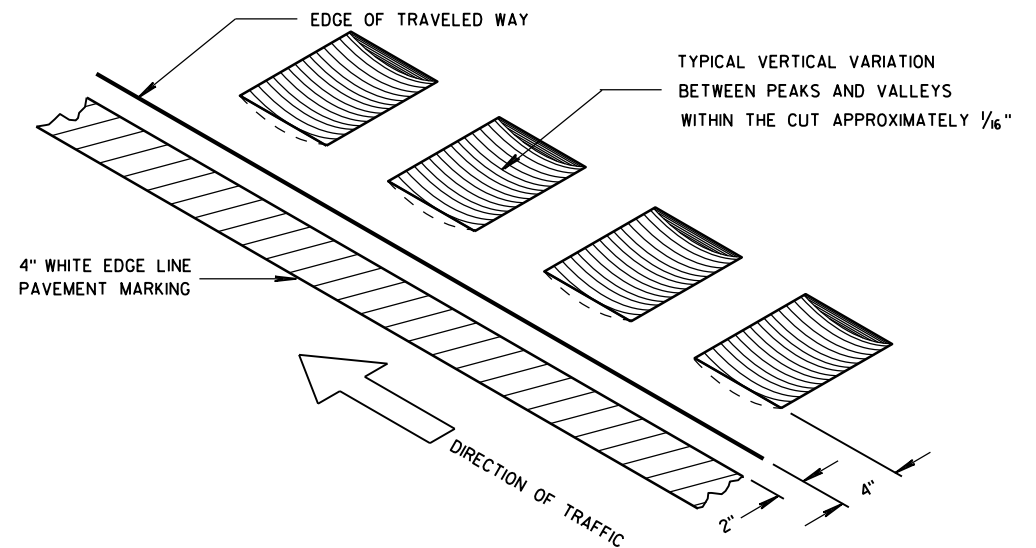
TYPE 1
2-LANE SHOULDER RUMBLE STRIP

GENERAL NOTES

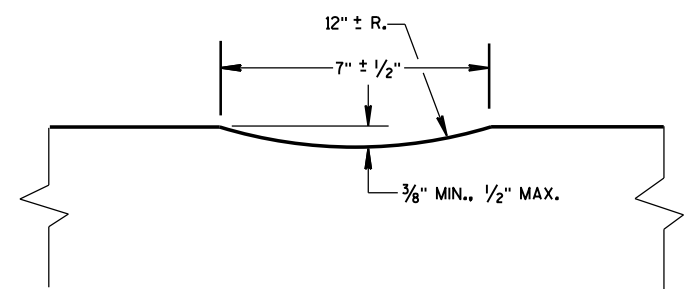
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

- ① SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



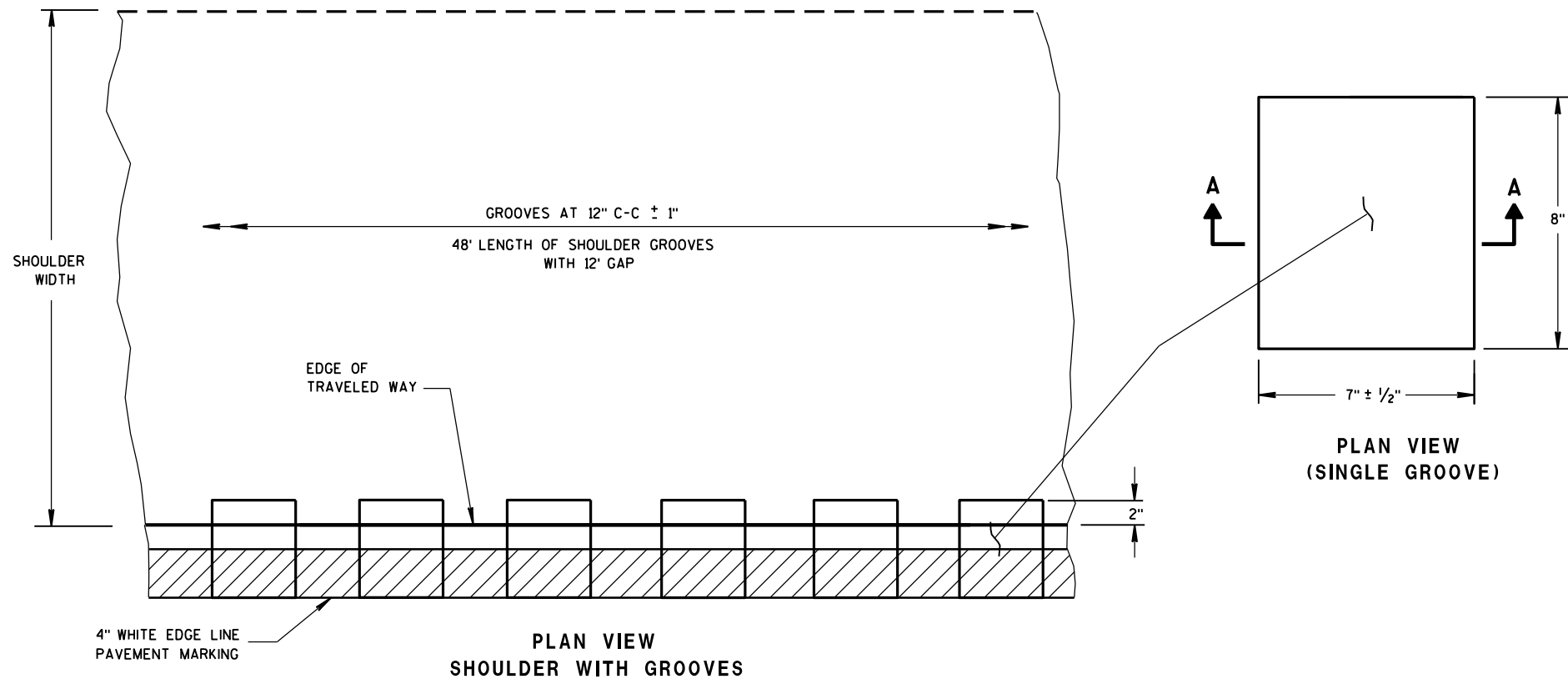
ISOMETRIC



SECTION A-A

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

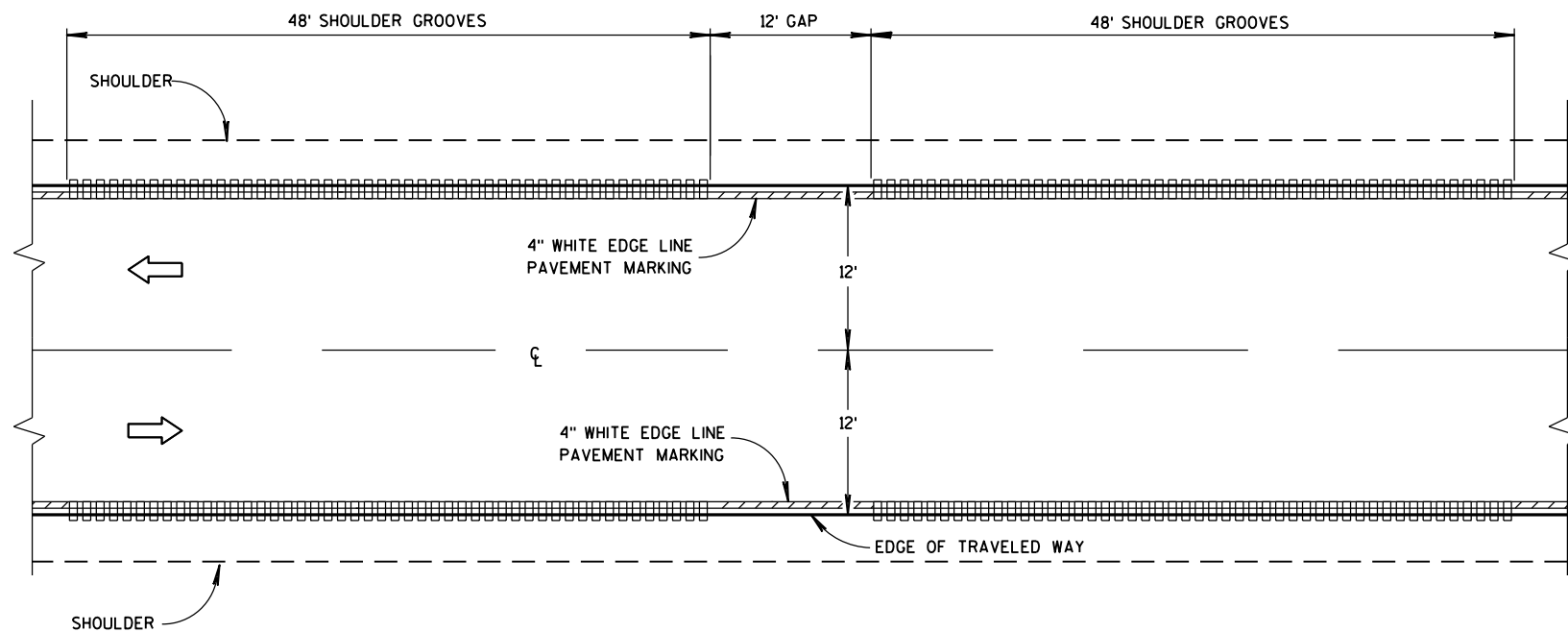
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 106



6

6

PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP



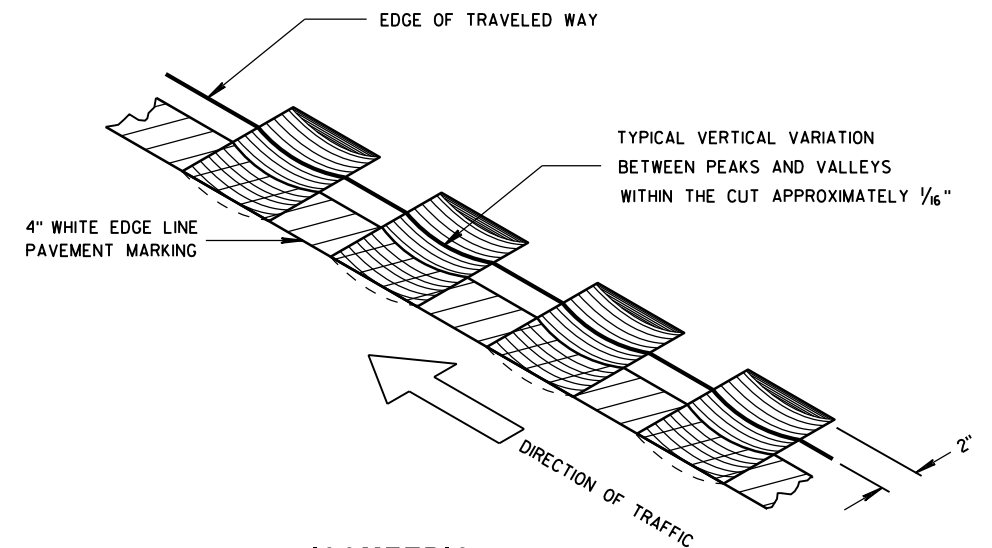
TYPE 2
2-LANE SHOULDER RUMBLE STRIP

GENERAL NOTES

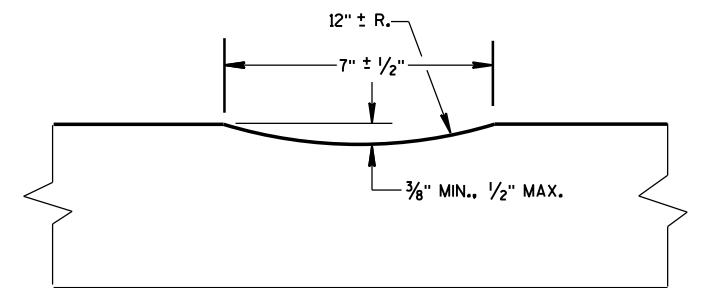
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

- ① SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



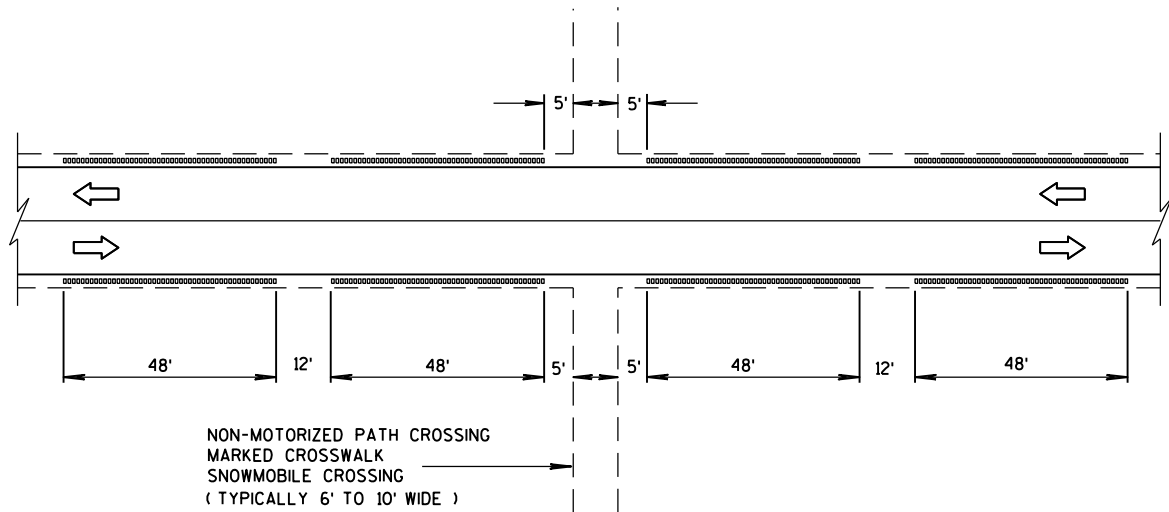
ISOMETRIC



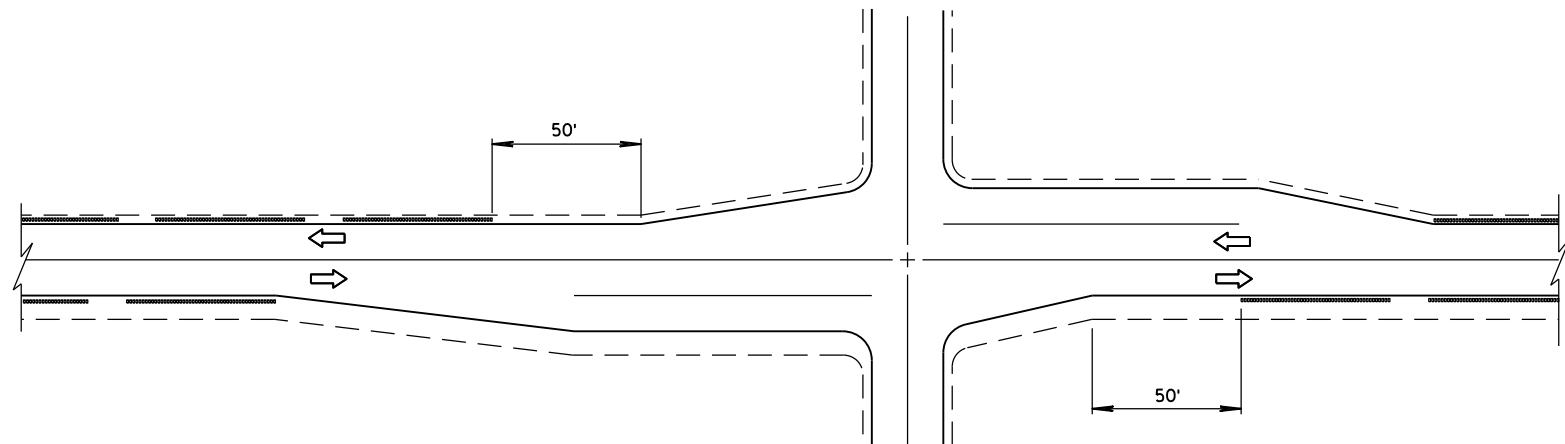
SECTION A-A

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

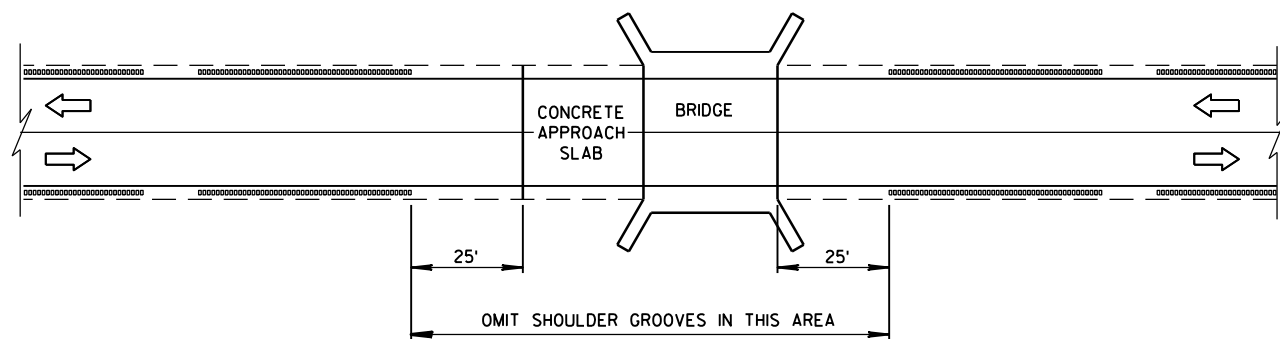
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 107



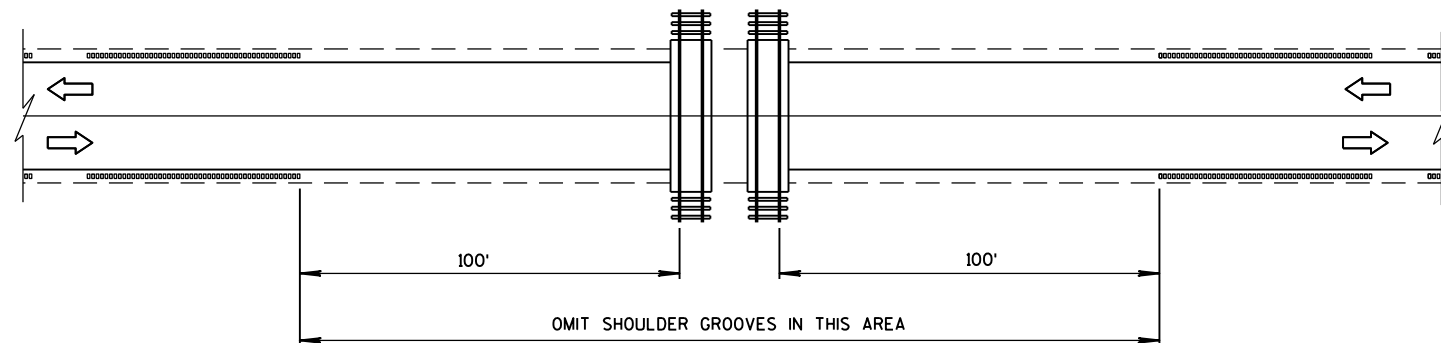
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



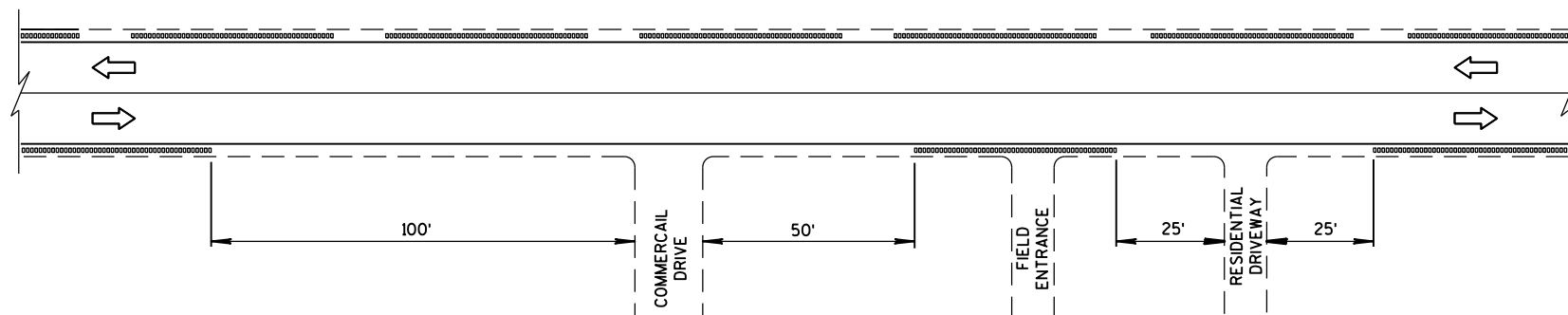
SHOULDER GROOVES AT INTERSECTIONS



SHOULDER GROOVES AT BRIDGES



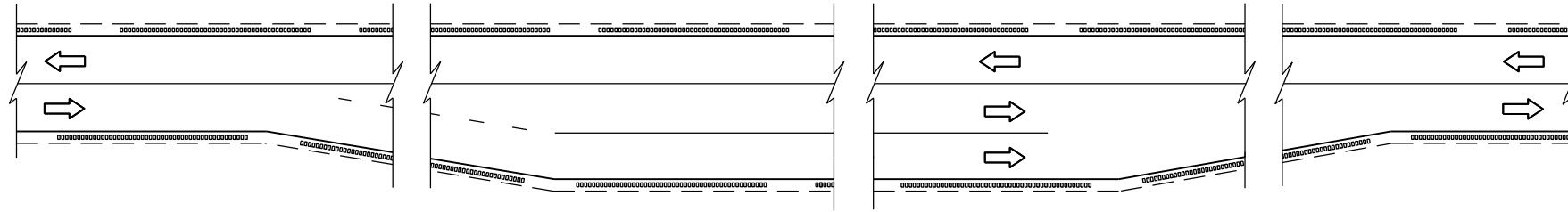
SHOULDER GROOVES AT RAILROADS



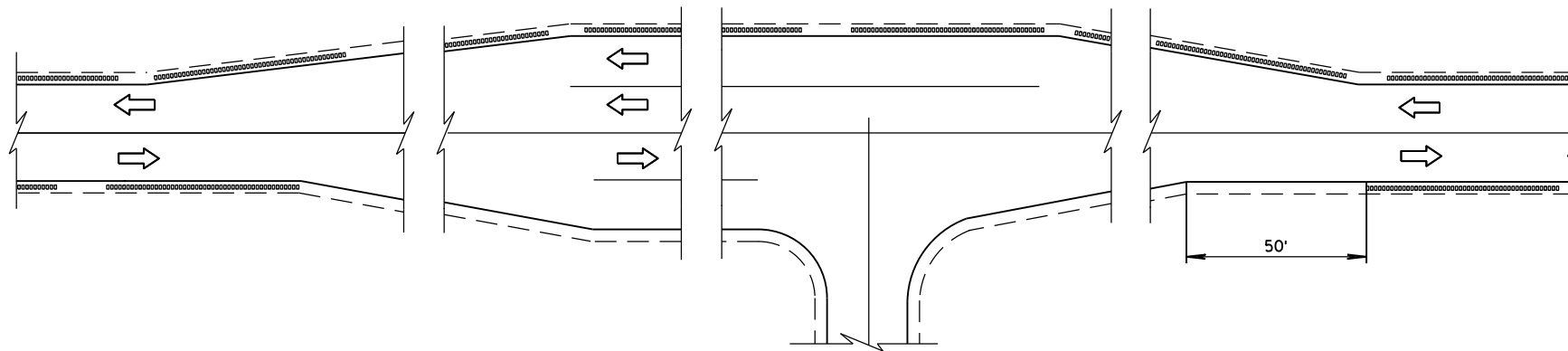
SHOULDER GROOVES AT DRIVEWAYS^①

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
APPROVED DATE 12/17/2012	/S/ Jerry H. Zogg ROADWAY STANDARDS ENGINEER	109 ENT
FHWA		

GENERAL NOTES

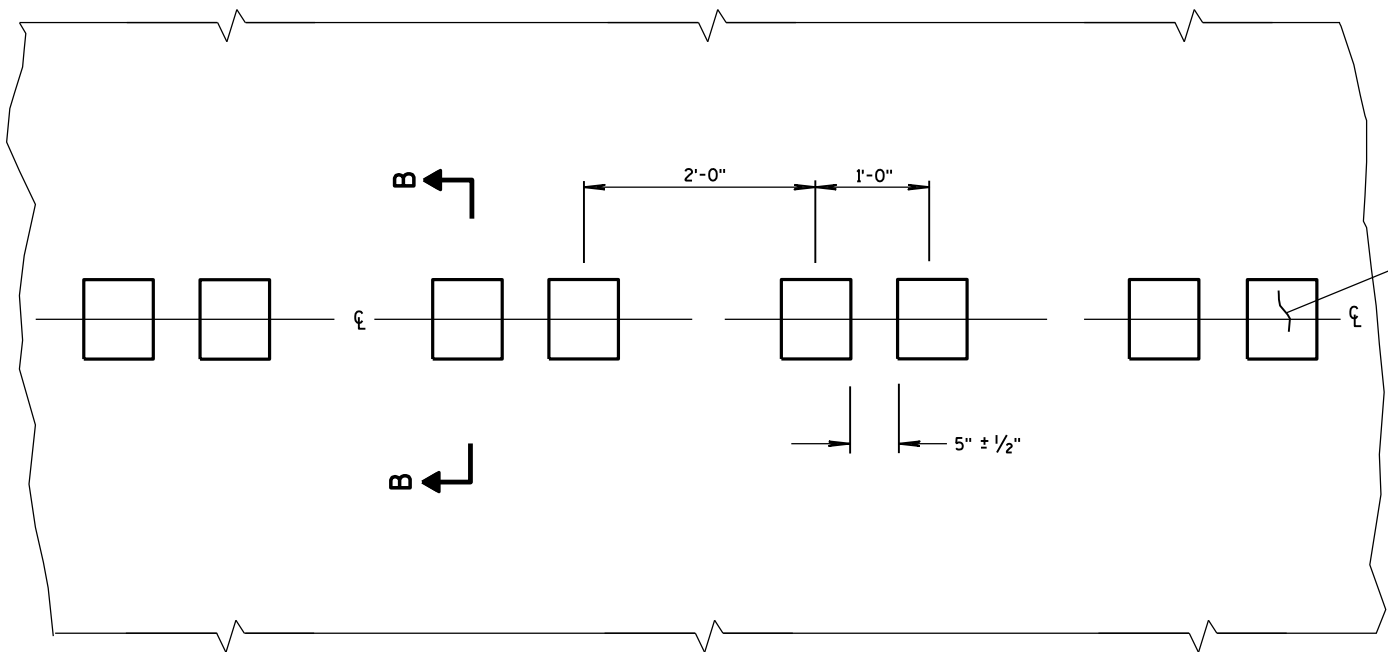
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

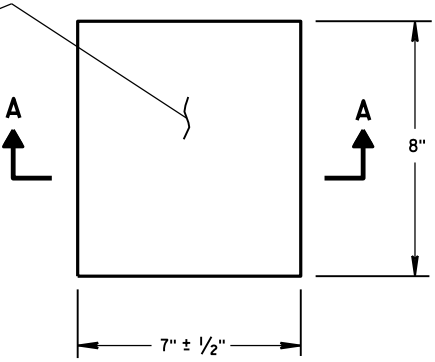
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

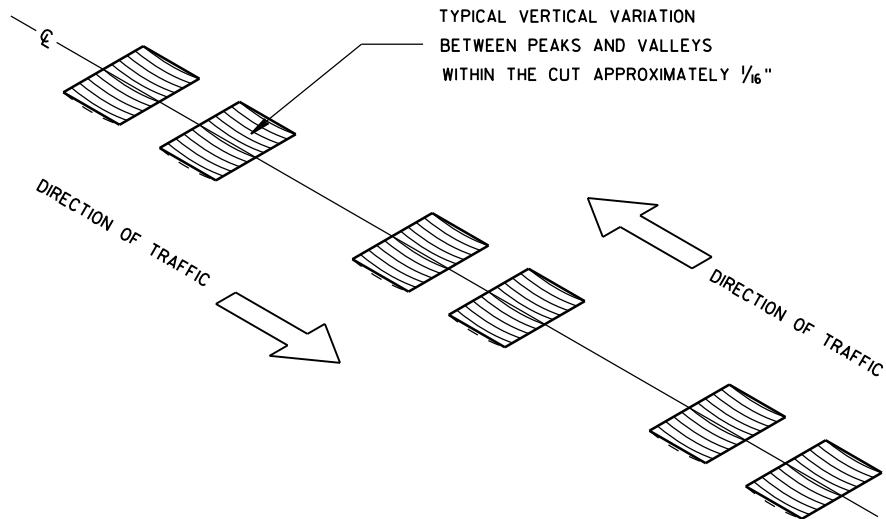
- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



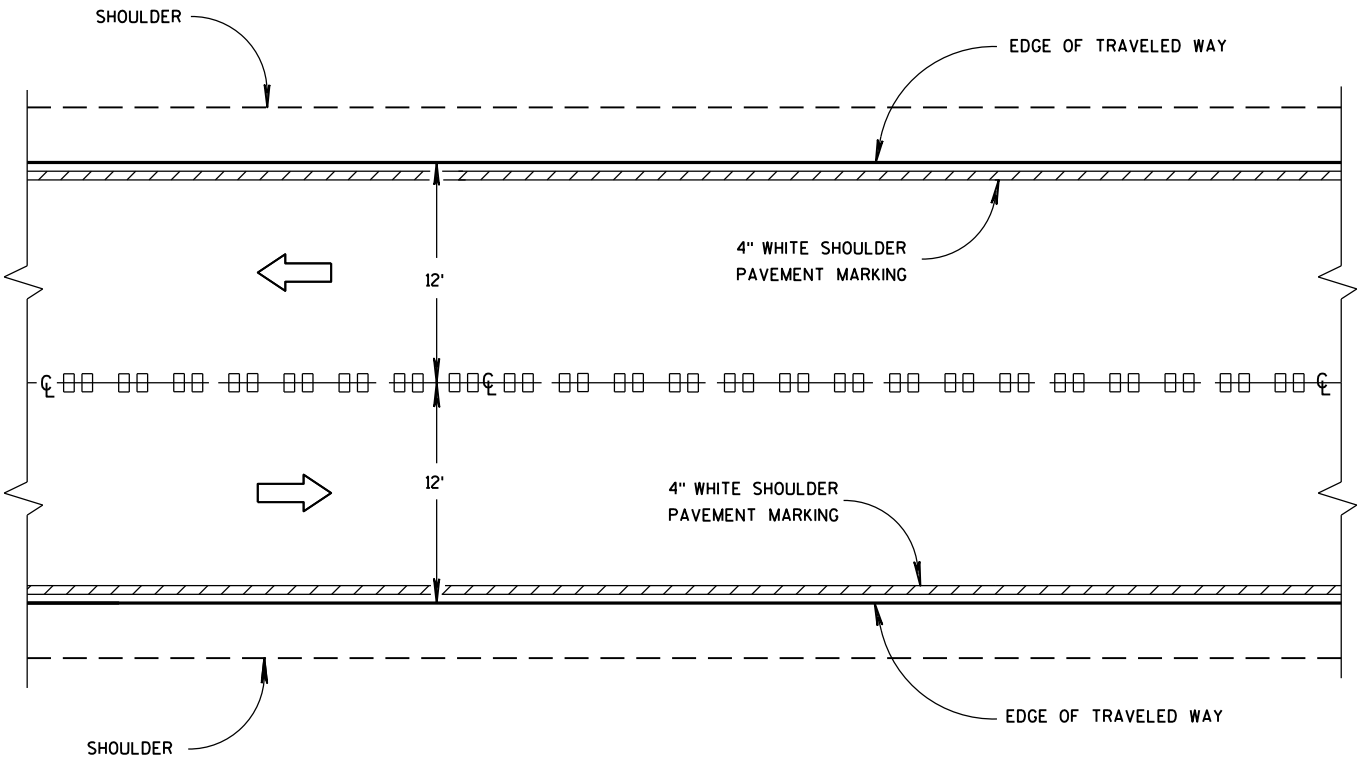
PLAN VIEW
CENTER LINE WITH GROOVES



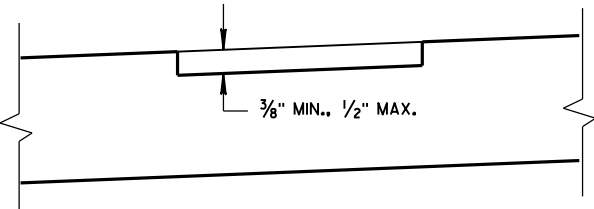
PLAN VIEW
(SINGLE GROOVE)



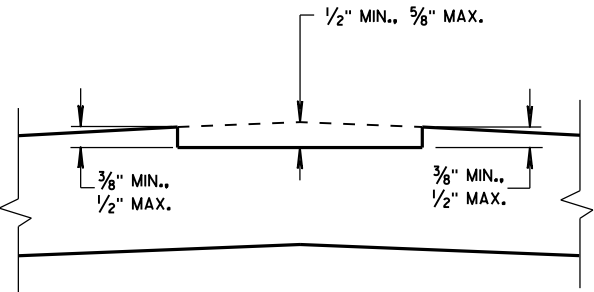
ISOMETRIC



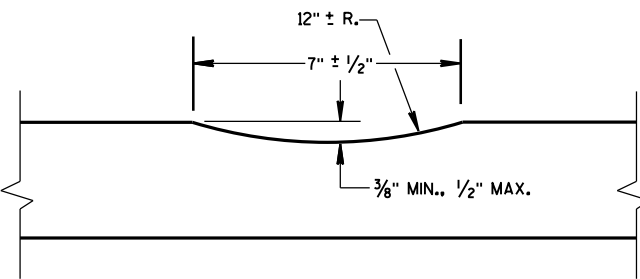
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY

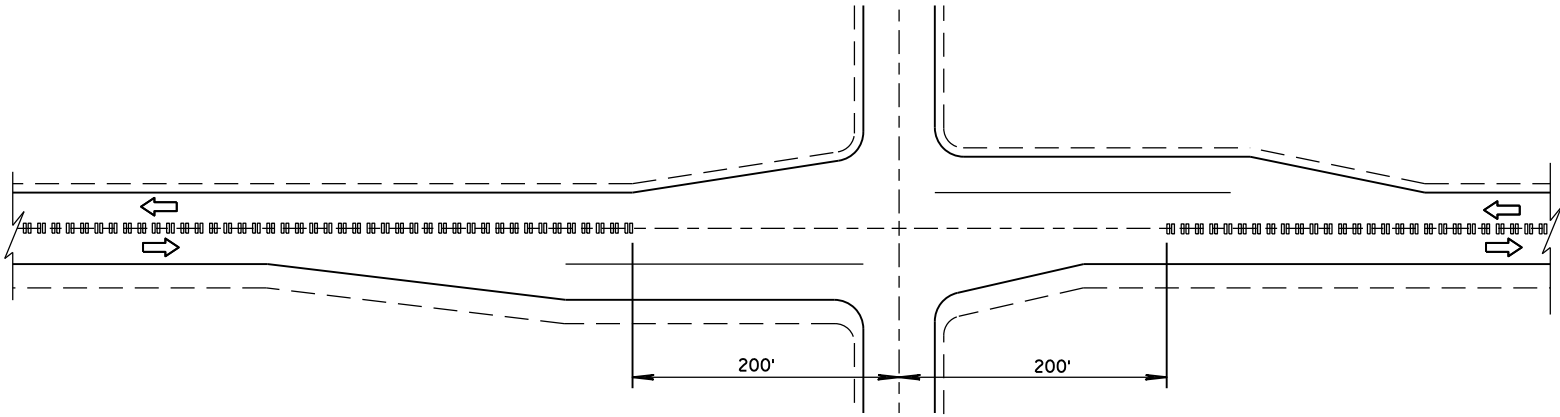


SECTION A-A

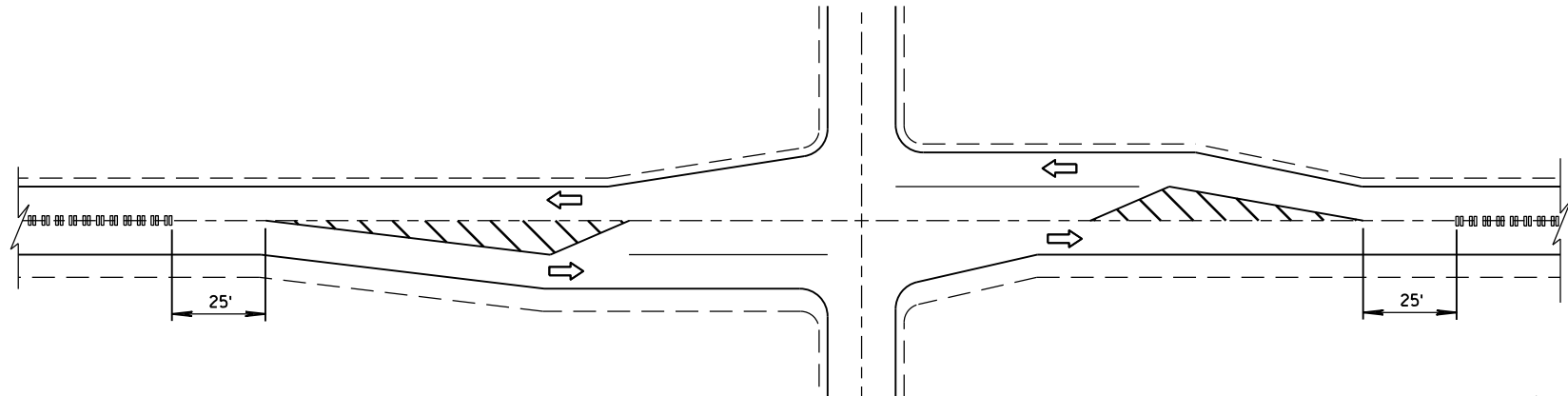
2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

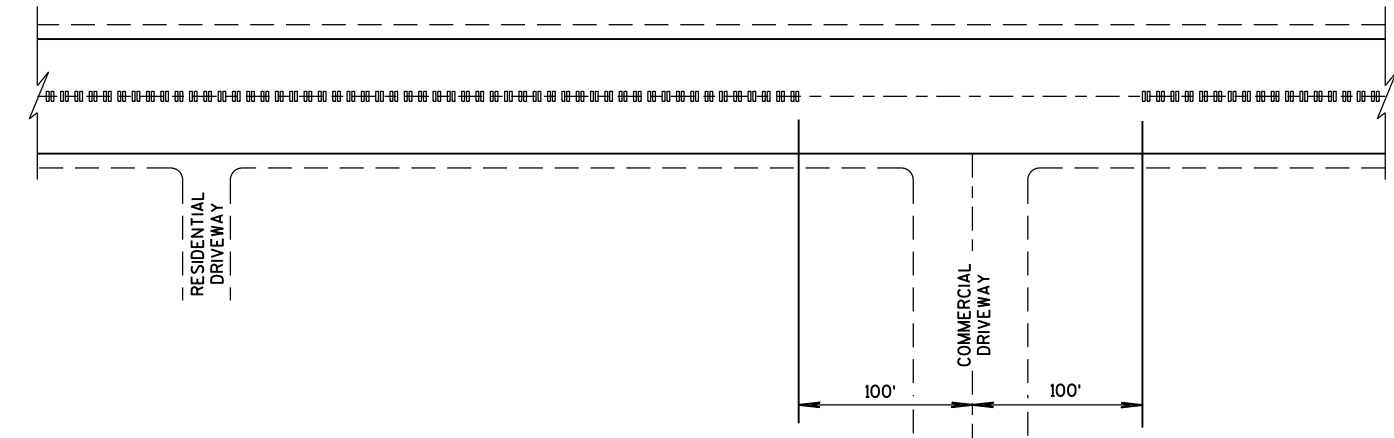
110



CENTER LINE GROOVES AT INTERSECTIONS

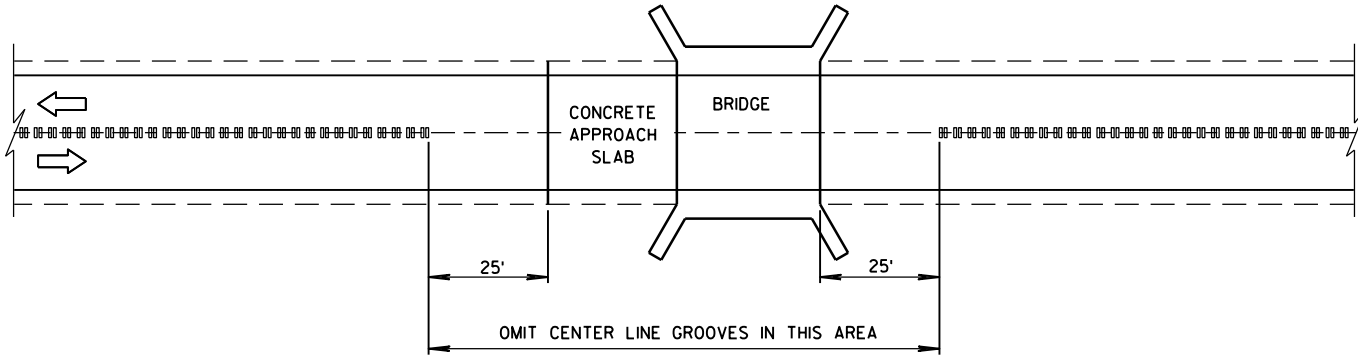


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

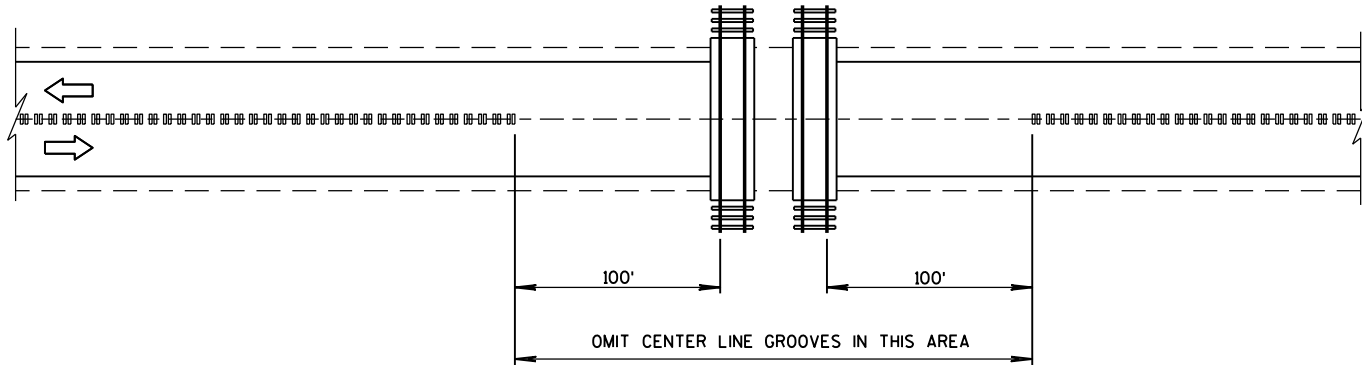


CENTER LINE GROOVES AT DRIVEWAYS^①

① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



CENTER LINE GROOVES AT BRIDGES



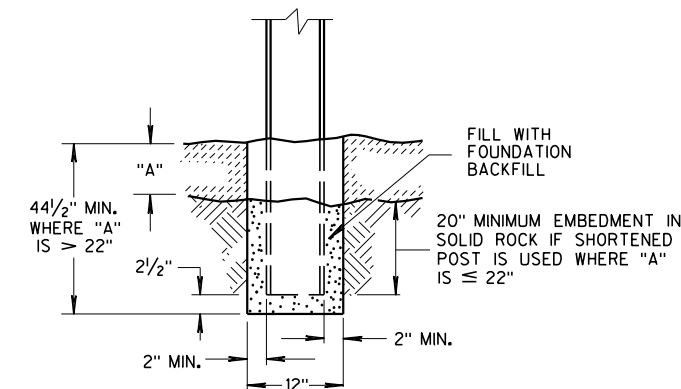
CENTER LINE GROOVES AT RAILROADS

2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE 5/15/2013	/S/ Jerry H. Zoog ROADWAY STANDARDS ENGINEER 111 NT
FHWA	

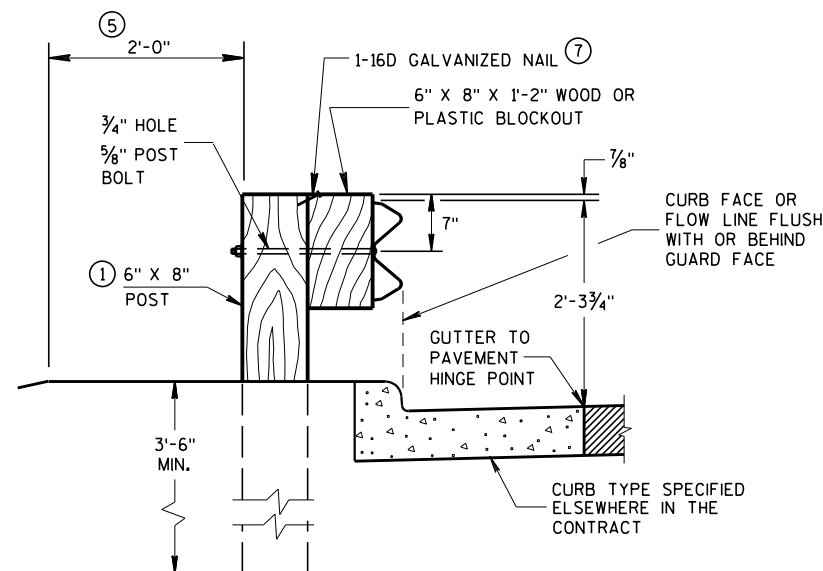
GENERAL NOTES

- W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS. DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION.
- USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.
- INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.
- IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).
- IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 1/2 INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN THE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATELY.
- WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

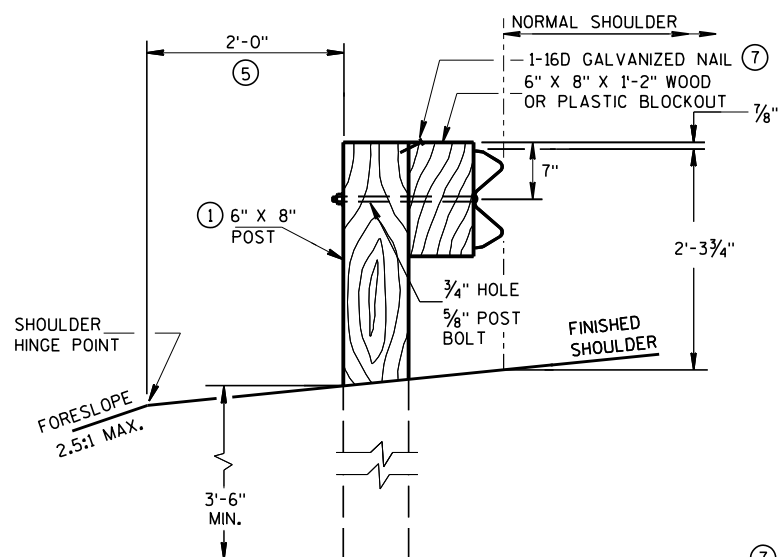
INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



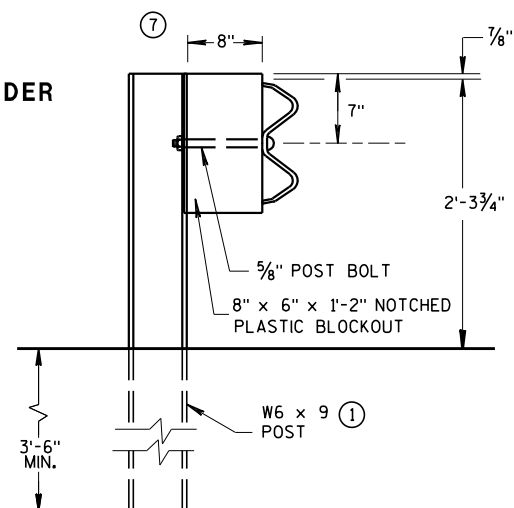
END VIEW
SETTING STEEL OR WOOD POST IN ROCK ⑥



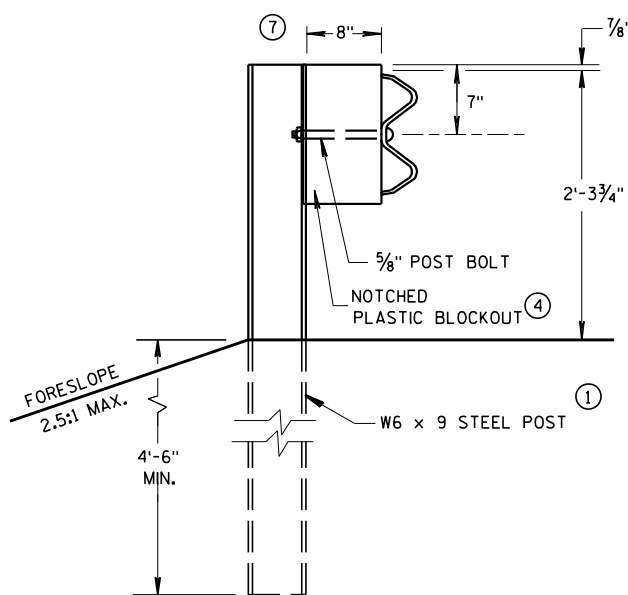
END VIEW
LOCATED ALONG A CURBED ROADWAY



END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION

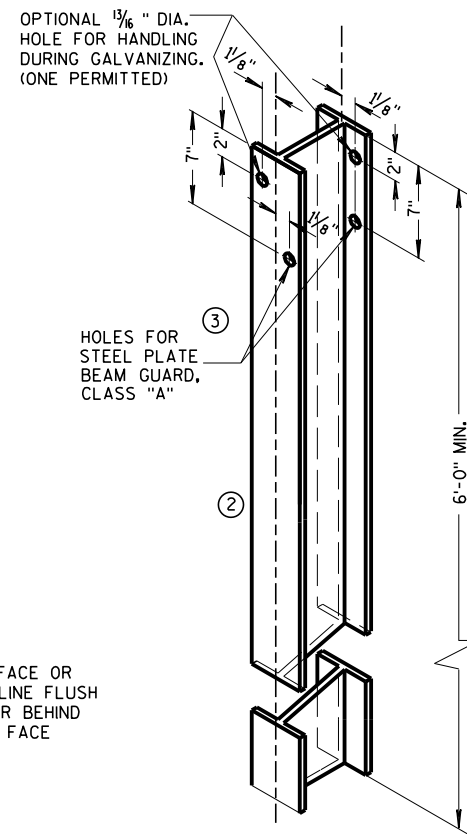


END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



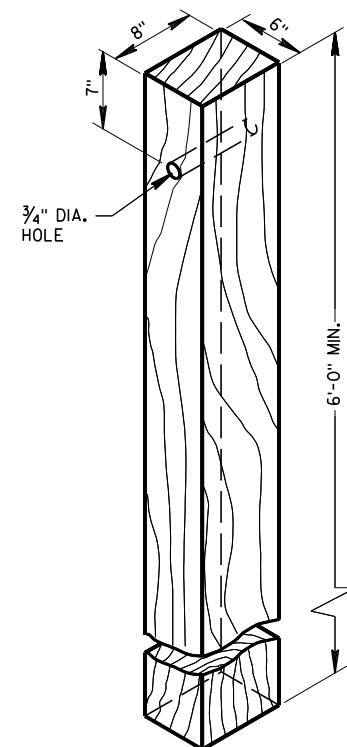
END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

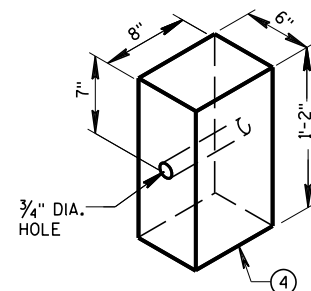


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) ①

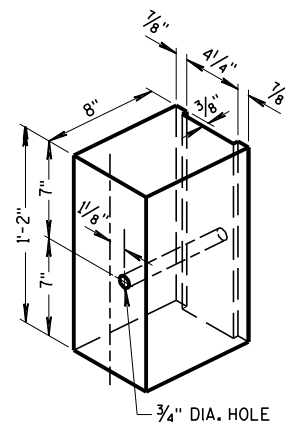
ALL HOLES 1/8" DIAMETER EXCEPT AS NOTED



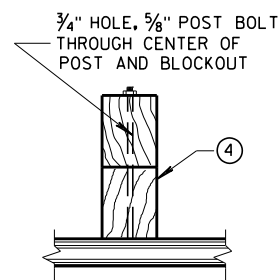
WOOD POST
(6"X8") NOMINAL



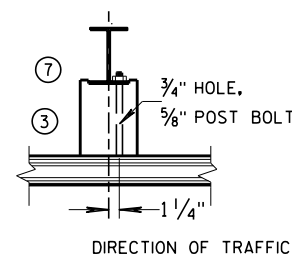
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



TYPICAL NOTCHED
PLASTIC BLOCKOUT
FOR STEEL POSTS ①



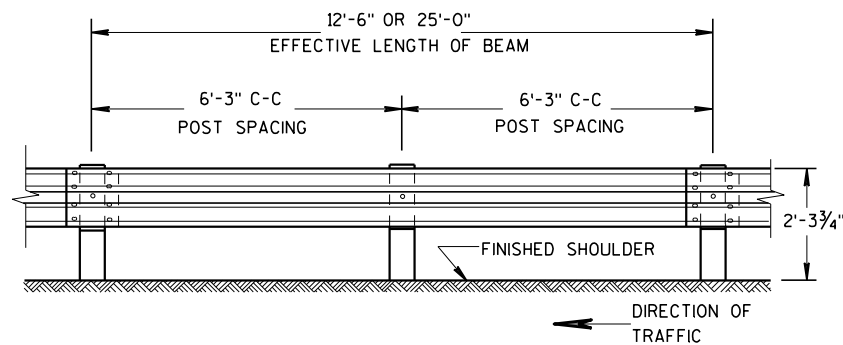
PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM

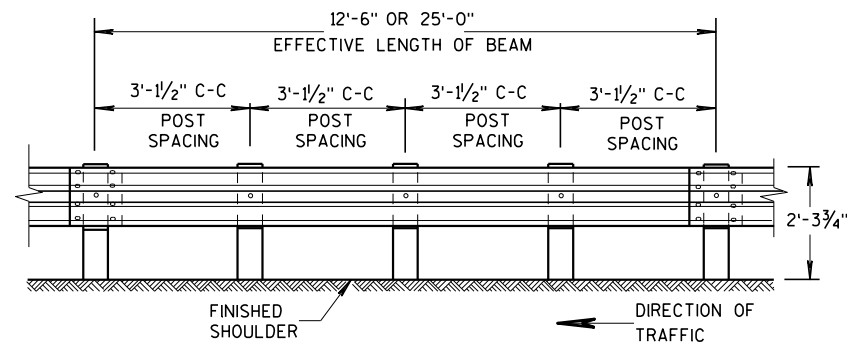
STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

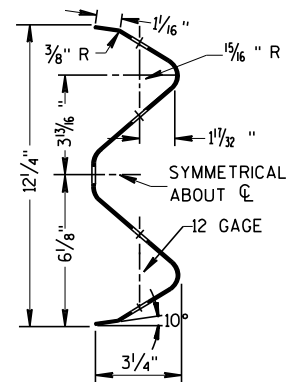


FRONT VIEW

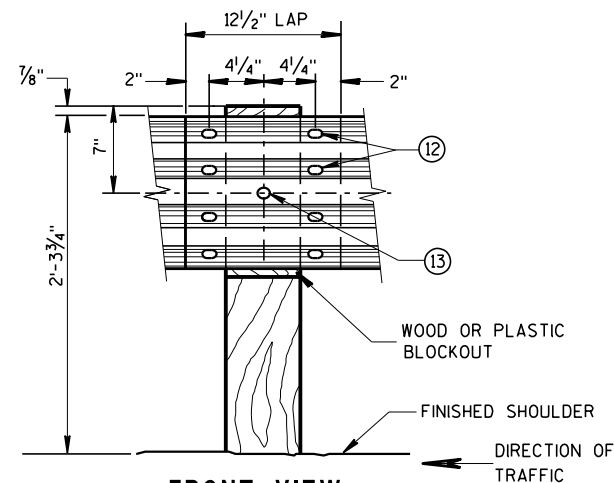
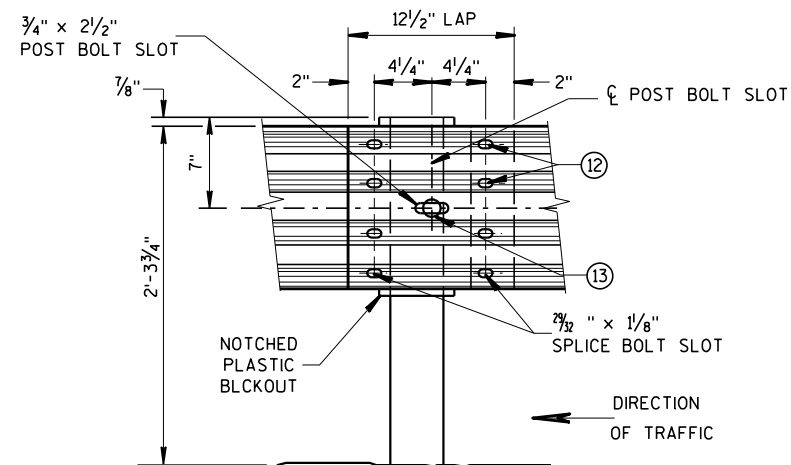
POST SPACING STANDARD INSTALLATION



FRONT VIEW

POST SPACING FOR LONGER POST
AT HALF POST SPACING W BEAM (LHW)

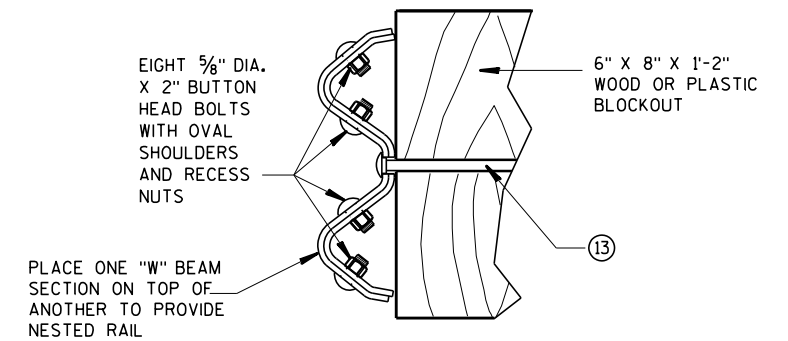
SECTION THRU W BEAM

FRONT VIEW
BEAM SPLICE AT WOOD POST
AND POST MOUNTING DETAILFRONT VIEW
BEAM SPLICE AT STEEL POSTTYPICAL SPLICING DETAILS
OF STEEL PLATE BEAM GUARD

GENERAL NOTES

FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

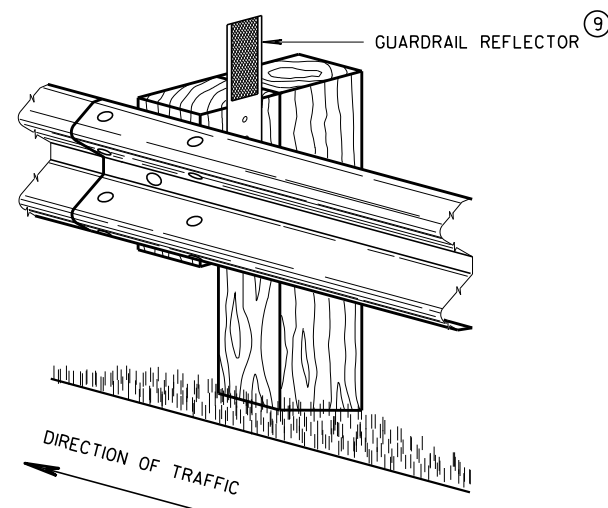
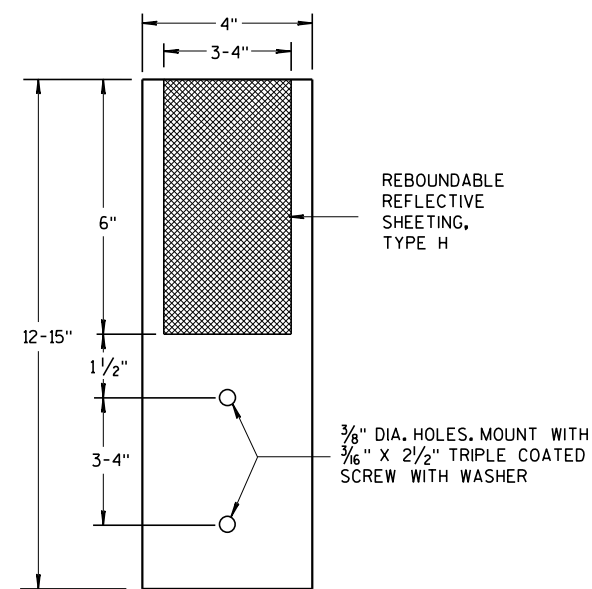
- ⑨ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA. START REFLECTORS AT POST #9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.
- ⑫ 8 - 5/8" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- ⑬ 5/8" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH 5/8" DIA. F844 FLAT WASHER UNDER NUT.



NESTED W BEAM (NW)

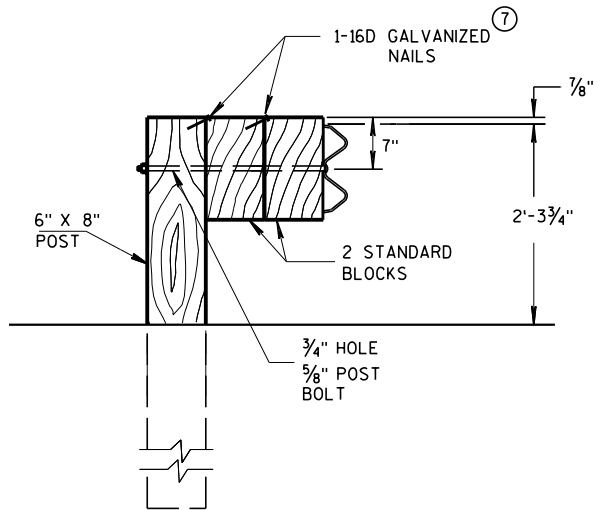
USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR
CONSTRUCTING NESTED W BEAM (NW)

* USE DOUBLE SIDED WHITE GUARDRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN). USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.

4" X 12" GUARDRAIL REFLECTOR DETAIL
AND TYPICAL INSTALLATION *

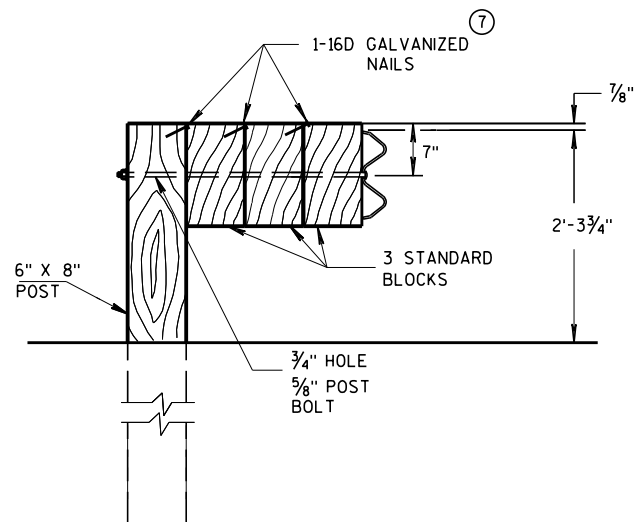
4"x 12" GUARDRAIL REFLECTOR

STEEL PLATE BEAM GUARD,
CLASS "A",
INSTALLATION & ELEMENTSSTATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS
WITHIN A BARRIER RUN IS UNLIMITED

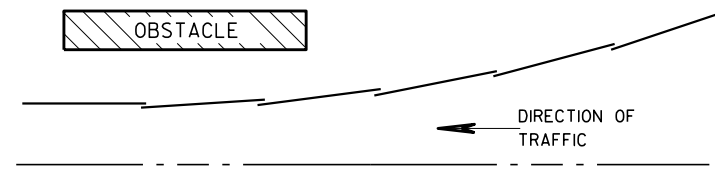


DETAIL FOR TRIPLE BLOCKS

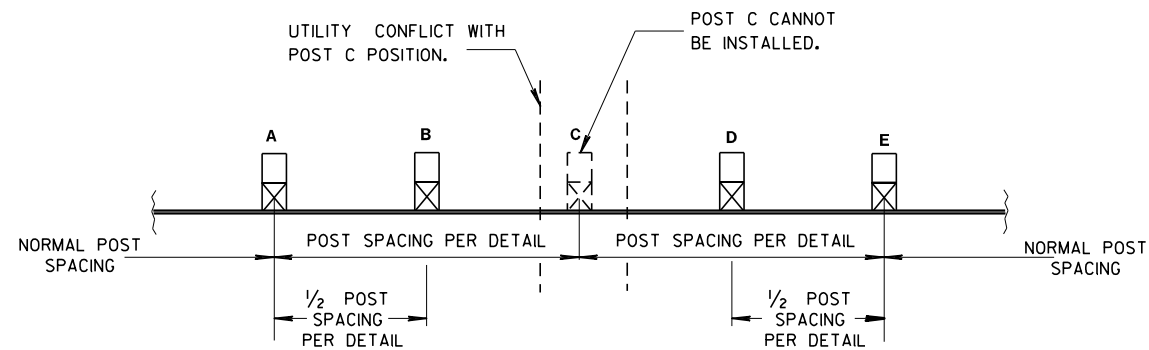
TRIPLE BLOCK DETAIL IS LIMITED TO ONE
LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES
PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND
SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION
DISTANCE OF THE BARRIER.



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	/S/ Rodney Taylor
June 2017	DATE
ROADWAY STANDARDS 114	UNIT SUPERVISOR
FHWA	

BILL OF MATERIALS

NOTE NO.	DESCRIPTION
①	WOOD BREAKAWAY TERMINAL POST: 5 1/2" X 7 1/2" X 3'-9"
②	STEEL TUBE TS 8" X 6" X 0.188", 6'-0"
④	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
⑤	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
⑥	PIPE SLEEVE: 2" X 5 1/2" STANDARD PIPE
⑦	BEARING PLATE
⑧	BCT CABLE ASSEMBLY
⑨	CABLE ANCHOR BOX
⑩	STRUT & YOKE
⑪	STEEL PLATE BEAM, END PANEL 12 GA.
⑫	STEEL PLATE BEAM: 12 GA. 13'-6 1/2"
⑬	IMPACT HEAD
⑭	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS

GENERAL NOTES

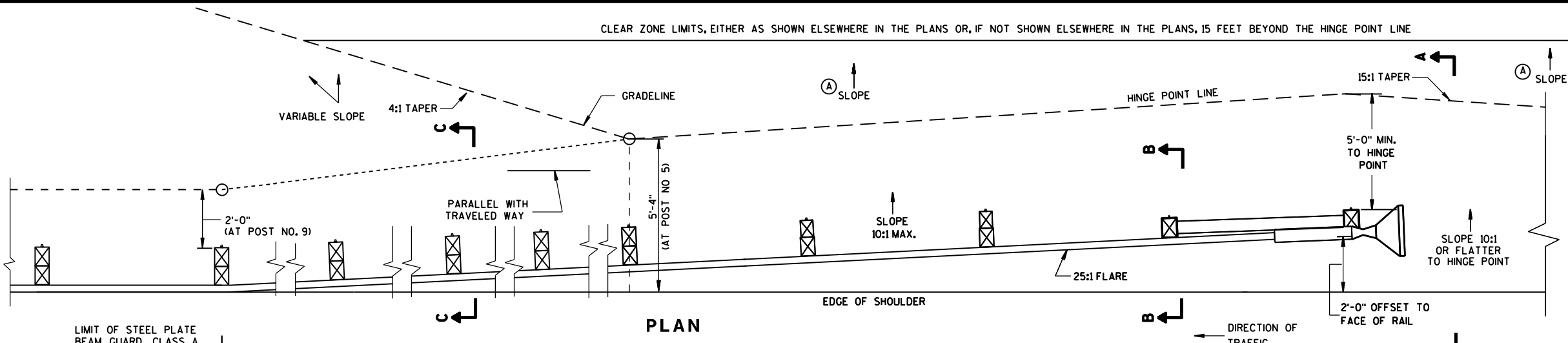
FOLLOW MANUFACTURE'S BOLTING RECOMMENDATIONS.

- (A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.
- (B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.
- (D) THE TOP OF THE STEEL TUBE ON POSTS 1 AND 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.
- (E) THE CENTER OF THE UPPER 3/2" DIAMETER HOLE ON POST 3 THROUGH 8 SHALL BE 3/4" ABOVE THE FINISHED GROUND LINE.
- (F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS, ONE SCREW PER CORNER.

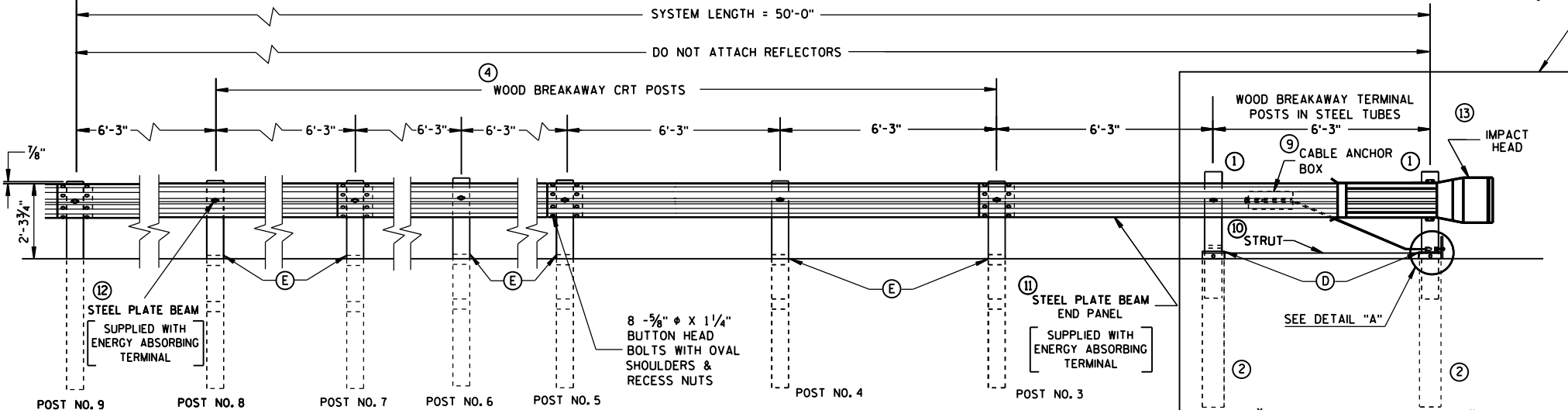
STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

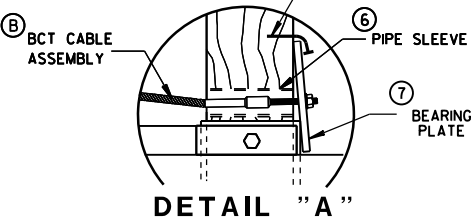
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.



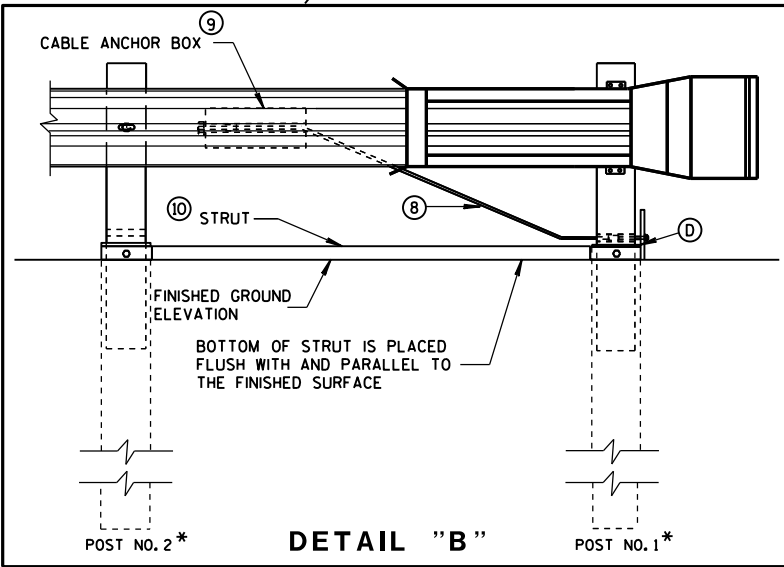
PLAN



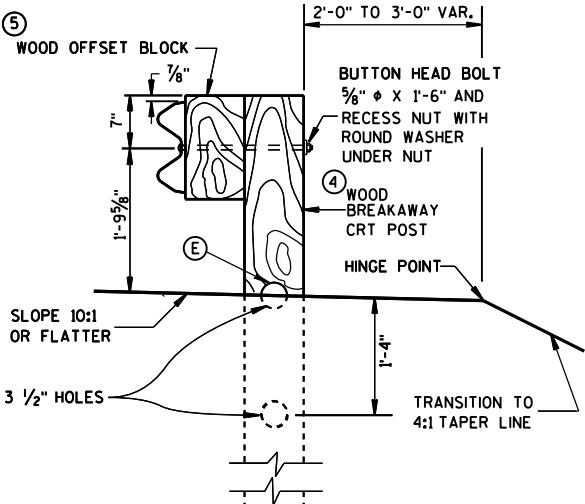
ELEVATION



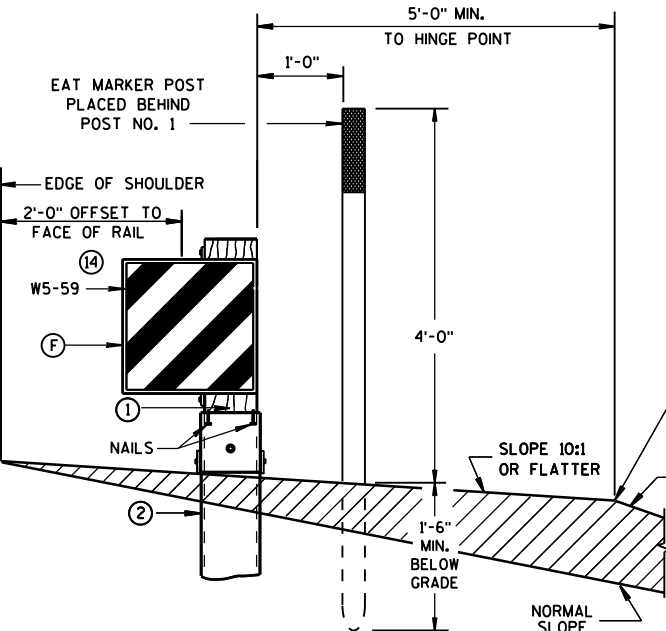
DETAIL "A"



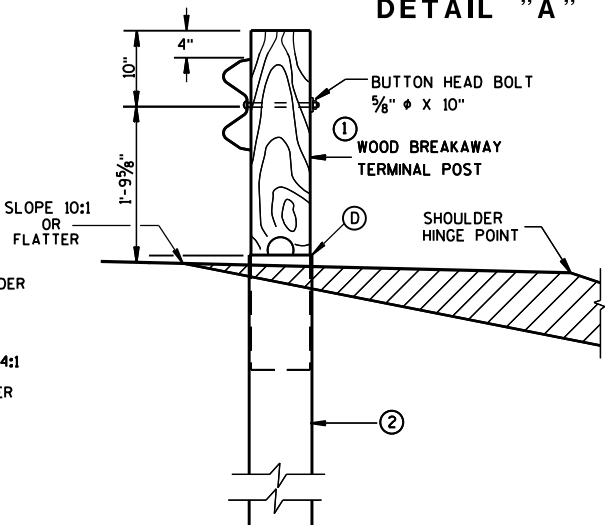
DETAIL "B"



SECTION C-C
TYPICAL AT POST NOS. 6, 8



SECTION A-A
TYPICAL AT POST NO. 1*

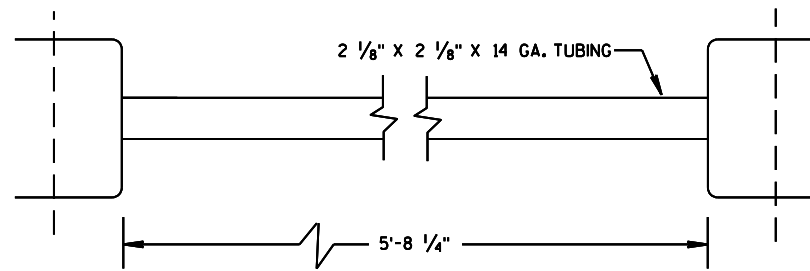


SECTION B-B
TYPICAL AT POST NO. 2*

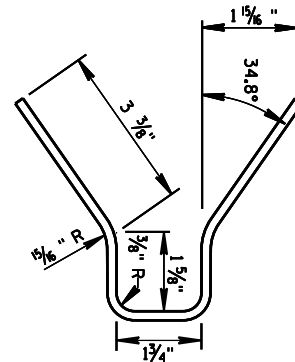
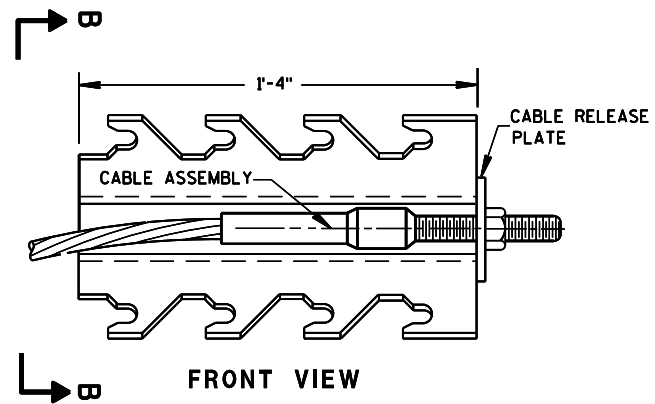
STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

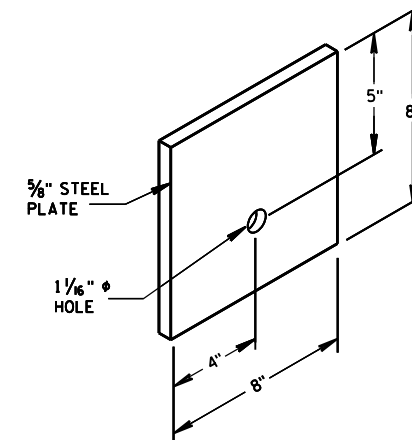
115



⑩ STRUT DETAIL



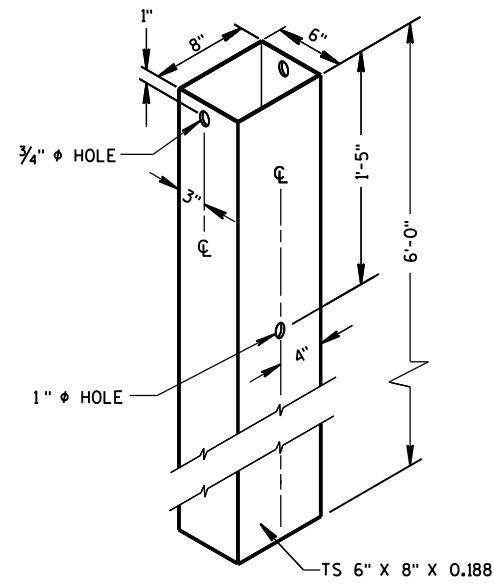
⑨ CABLE ANCHOR BOX



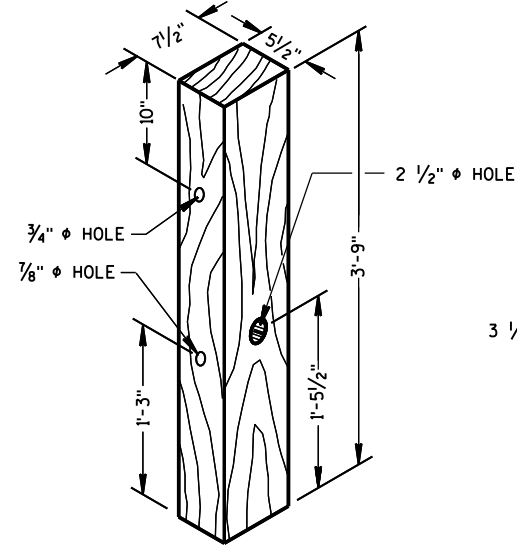
⑦ STEEL BEARING PLATE

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

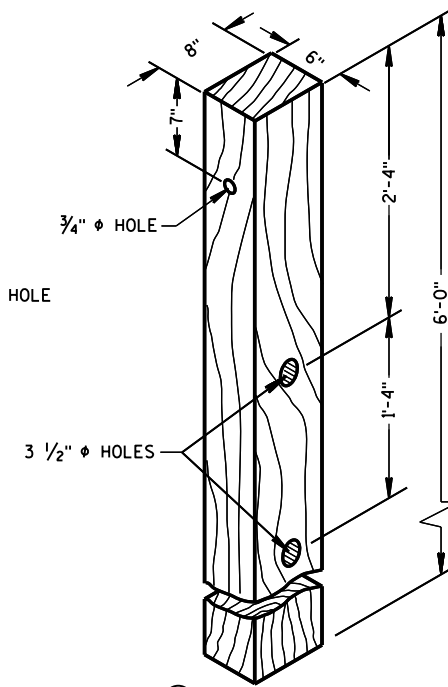
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 116



② **72" STEEL TUBE**
(POSTS NO. 1-4)

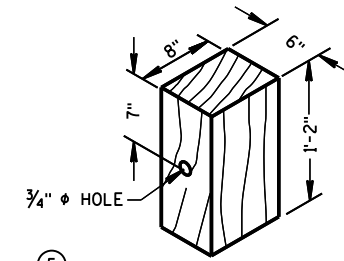


① **TERMINAL POST**



④ **CRT POST**
(POSTS NO'S 5-8)

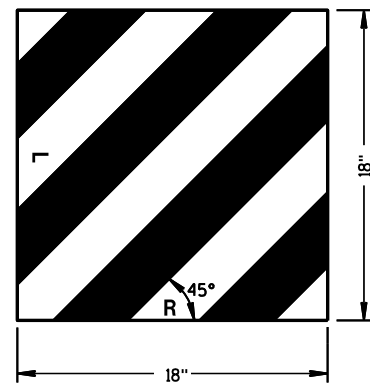
WOOD BREAKAWAY POSTS



⑤ **WOOD OFFSET BLOCK**
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2

GENERAL NOTES

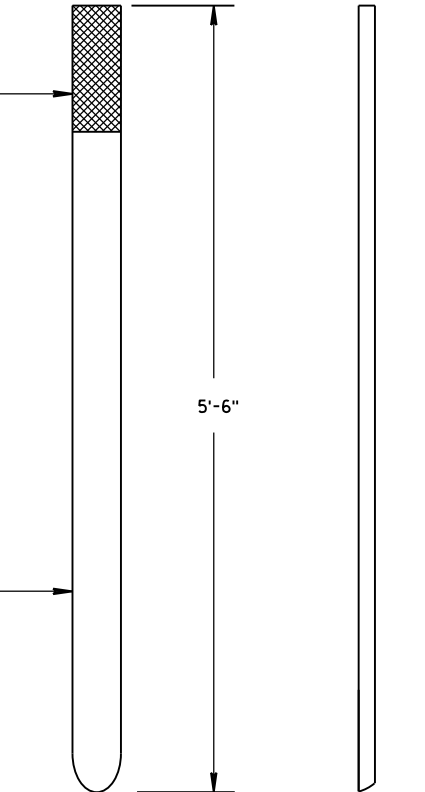
WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 1/2" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.



⑭ **REFLECTIVE SHEETING DETAILS**

TYPE H
YELLOW REFLECTIVE
SHEETING 3" X 9".
SEE STANDARD
SPECIFICATION 637.

E.A.T. MARKER
POST (YELLOW)
SEE APPROVED
PRODUCTS LIST



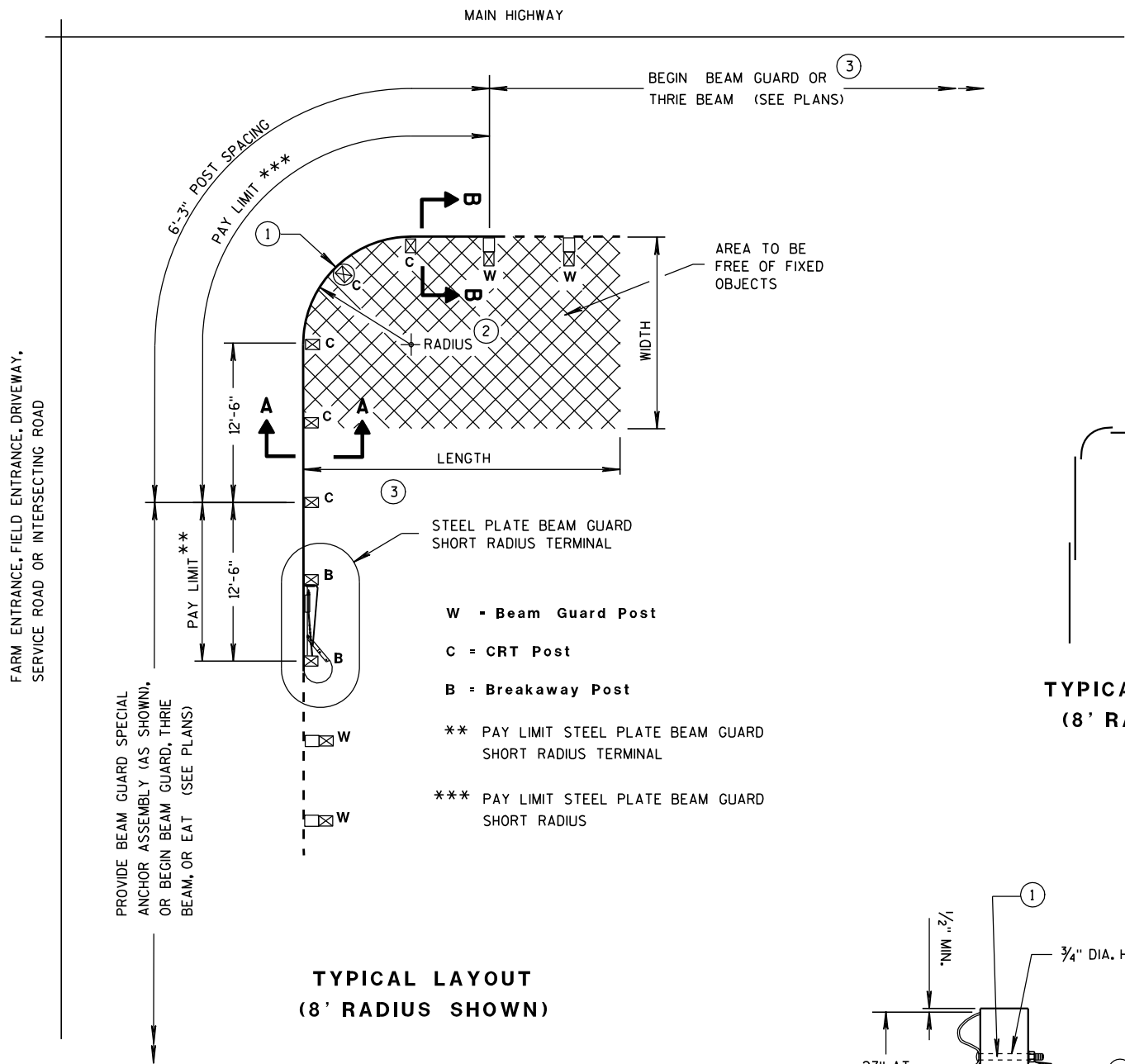
FRONT VIEW SIDE VIEW

E.A.T. MARKER POST

**STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

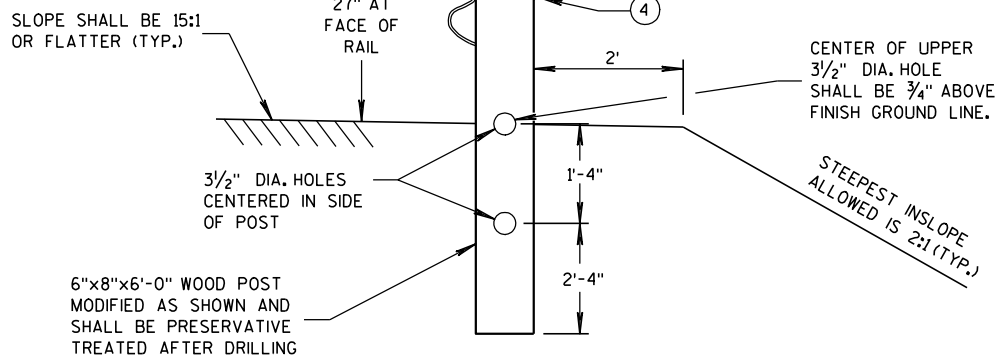
APPROVED
June 2017 /S/ Rodney Taylor
DATE ROADWAY STANDARDS 117 ENT
FHWA UNIT SUPERVISOR



TYPICAL LAYOUT
(8' RADIUS SHOWN)

W - Beam Guard Post
C = CRT Post
B = Breakaway Post

** PAY LIMIT STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL
*** PAY LIMIT STEEL PLATE BEAM GUARD SHORT RADIUS



SECTION A-A
(CRT POST)

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

TYPICAL LAP SPLICES
(8' RADIUS SHOWN)

GENERAL NOTES

ALL ANGLES, CHANNELS, AND PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36 AND THE STRUCTURAL TUBING SHALL CONFORM TO ASTM A 500. WELDING SHALL MEET THE CURRENT REQUIREMENTS OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE ANSI/AWS D1.1. ALL STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 123. PUNCHING, DRILLING, CUTTING, OR WELDING WILL NOT BE PERMITTED AFTER GALVANIZING. FURNISH AND INSTALL HARDWARE PER STANDARD SPECIFICATION 614.2, UNLESS NOTED OTHERWISE.

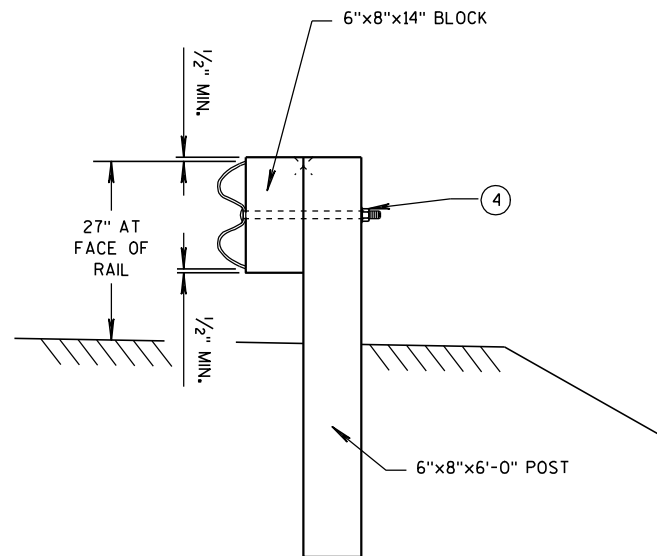
SHOP BEND CURVED RAIL SECTIONS.

SEE STANDARD DETAIL DRAWING 14 B 15 FOR OTHER DETAIL.

- 1 ON THE 8 FOOT RADIUS INSTALLATION, DO NOT INSTALL BUTTON HEAD BOLT AT CENTER CRT POST.
- 2 RADIUS FROM 8' - 36'. SEE PLAN.
- 3 HEIGHT TRANSITION MAY BE REQUIRED. SEE PLAN OR PROJECT ENGINEER.
- 4 5/8" Ø X 1'-6" BUTTON HEAD BOLT AND RECESS NUT WITH ROUND WASHER UNDER NUT.

RADIUS	NUMBER OF CRT POSTS	*NUMBER AND LENGTH OF CURVED RAILS	REQUIRED AREA FREE OF FIXED OBJECTS (LENGTH x WIDTH)
8'	5	1 at 12.5'	25' x 15'
16'	7	1 at 25'	30' x 15'
24'	9	1 at 25' and 1 at 12.5'	40' x 20'
32'	11	2 at 25'	50' x 20'

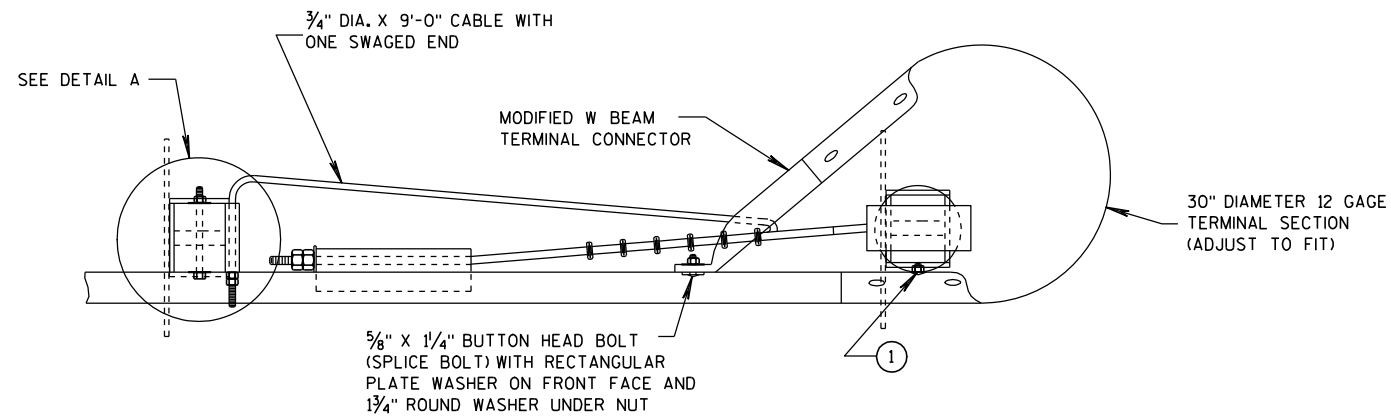
* THE NUMBER OF RAILS IS BASED ON A 90° INTERSECTION. SEE PLAN FOR NON 90° INSTALLATIONS.



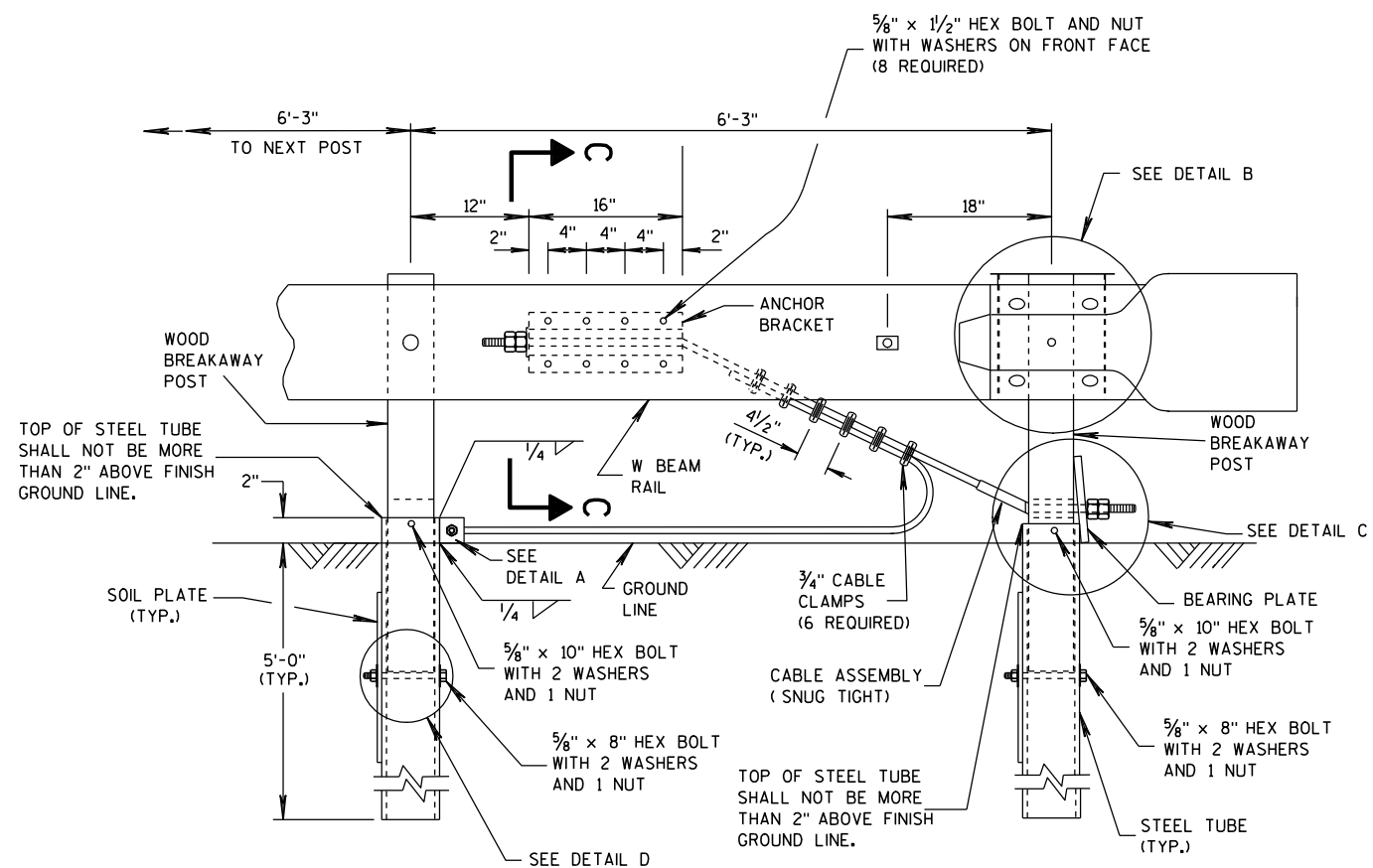
SECTION B-B
(BEAM GUARD POST)

STEEL PLATE BEAM GUARD
SHORT RADIUS TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



PLAN VIEW

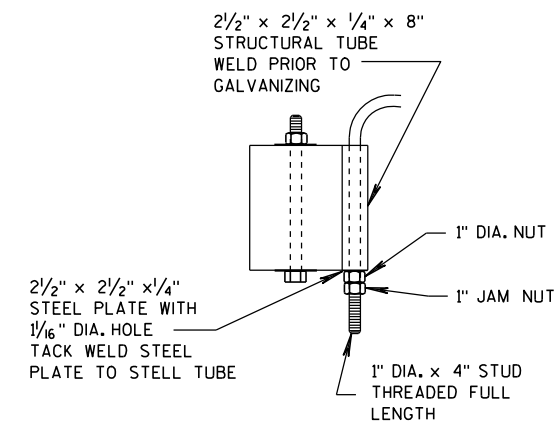


ELEVATION VIEW

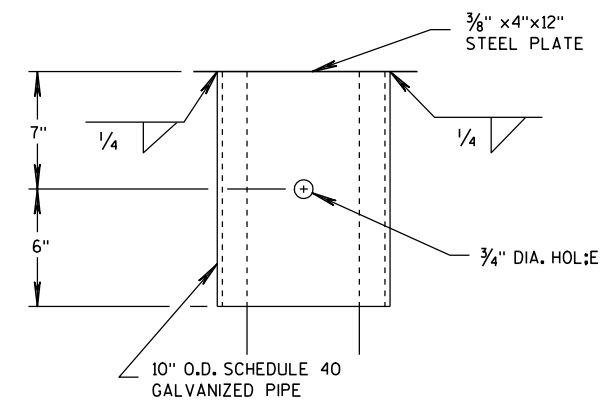
STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

GENERAL NOTES

- ATTACH W BEAM RAIL TO THE STEEL PIPE WITH A 5/8" X 2" BUTTON HEAD BOLT WITH NO WASHER. CONNECTION TO THE POST IS NOT REQUIRED.
- INSTALL GALVANIZED 3/4" (6X19) PREFORMED WIRE OR INDEPENDENT WIRE ROPE CORE CONFORMING TO AASHTO M 30. MANUFACTURE WIRE ROPE OUT OF IMPROVED PLOW STEEL WITH A MINIMUM BREAKING STRENGTH OF 42,800 PSI.



DETAIL A

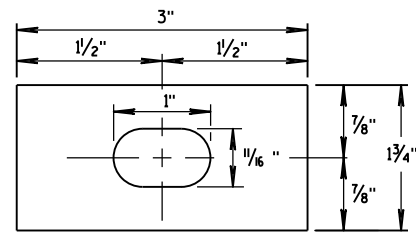


DETAIL B

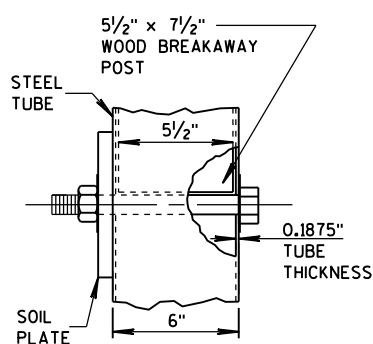
(BEAM GUARD AND TERMINAL SECTION NOT SHOWN)

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

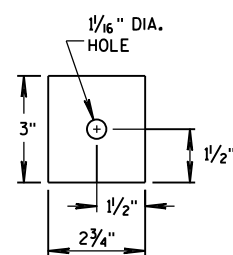
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



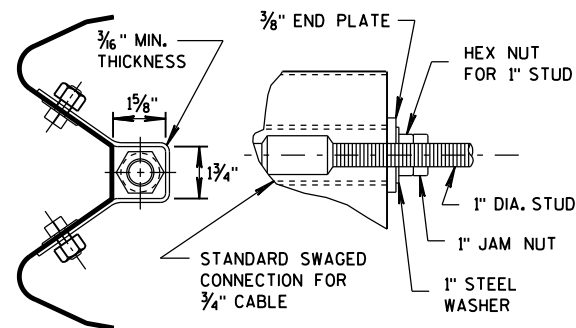
**RECTANGULAR
PLATE WASHER**



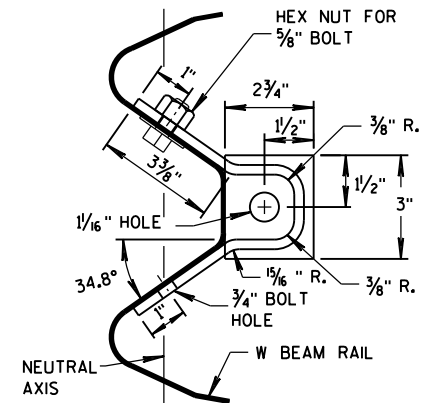
DETAIL D



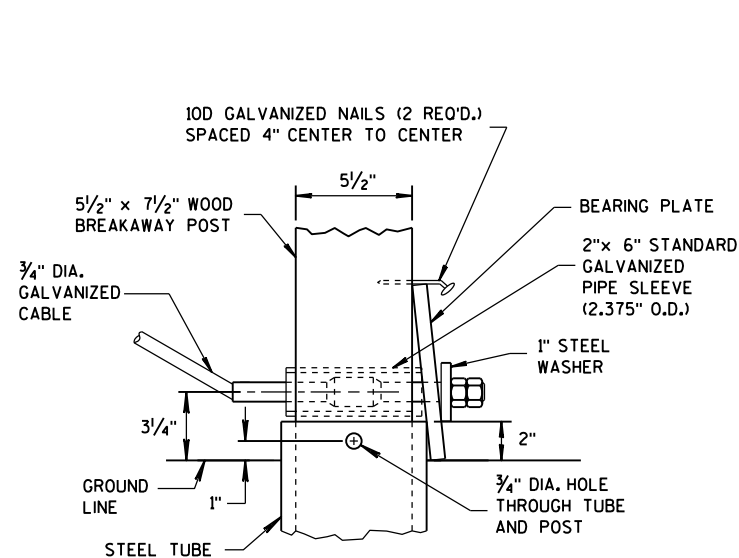
END PLATE



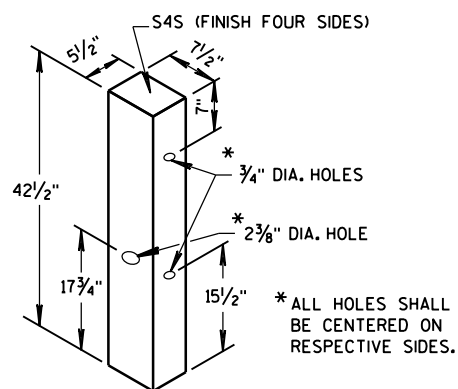
**SECTION C-C
(END PLATE REMOVED)**



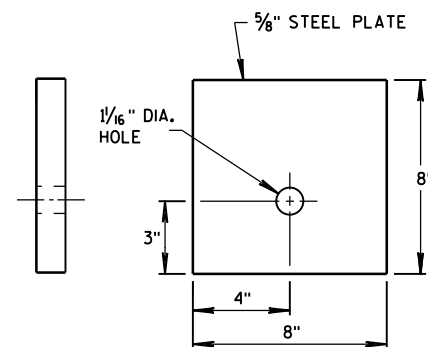
ANCHOR BRACKET



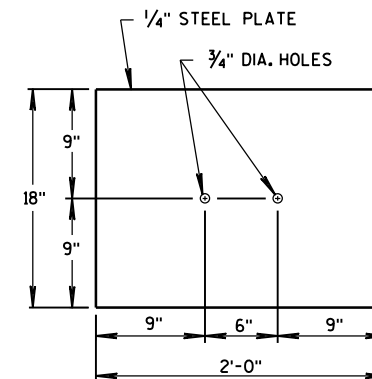
DETAIL C



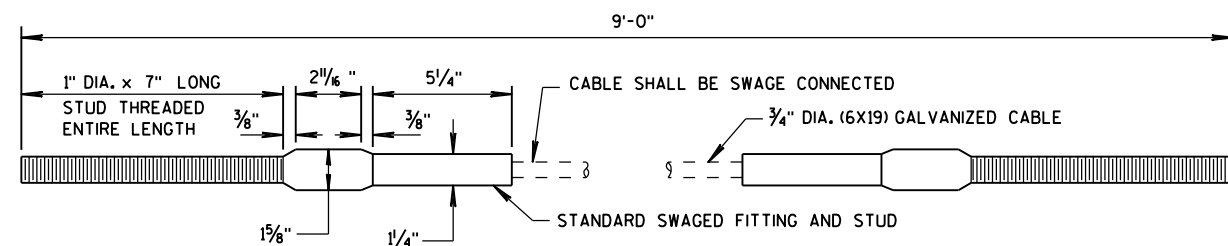
WOOD BREAKAWAY POST



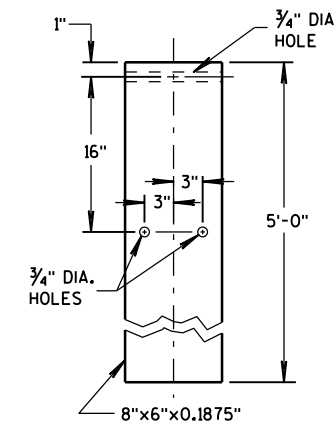
BEARING PLATE



SOIL PLATE



CABLE ASSEMBLY



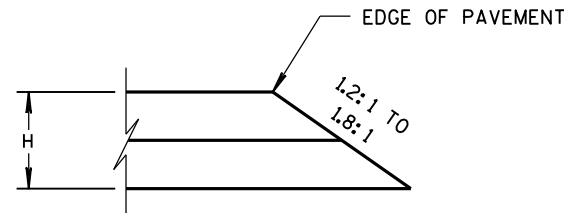
STEEL TUBE

**STEEL PLATE BEAM GUARD
SHORT RADIUS TERMINAL**

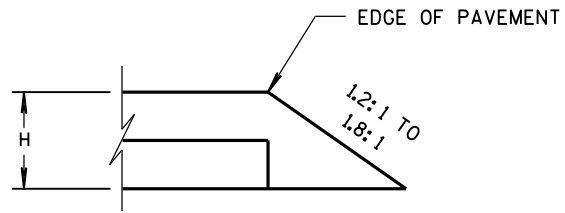
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/18/08
DATE
FHWA

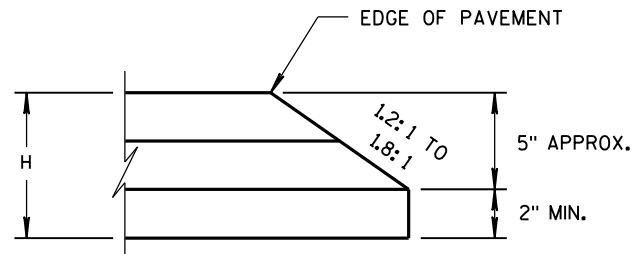
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER 120 NT



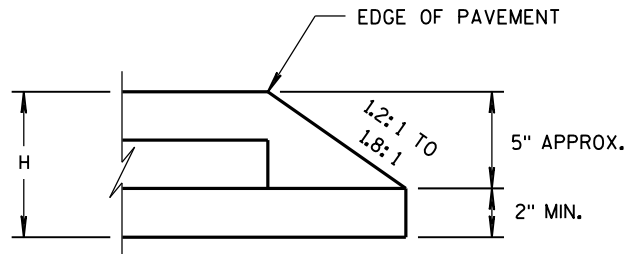
CONSTRUCTED WITH FINAL TWO LAYERS
FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER
FOR H 5" OR LESS

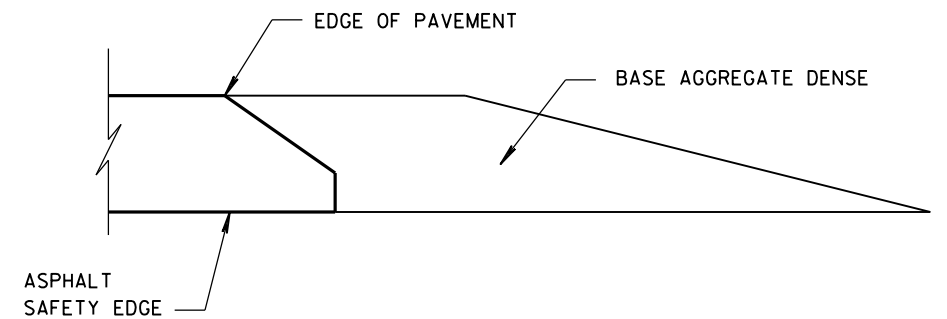


CONSTRUCTED WITH FINAL TWO LAYERS
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER
FOR H GREATER THAN 5"

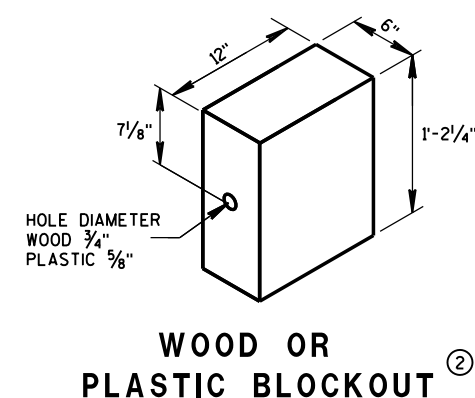
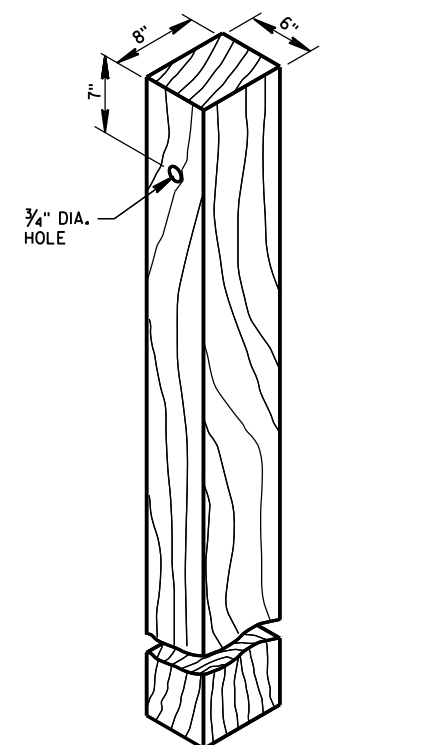
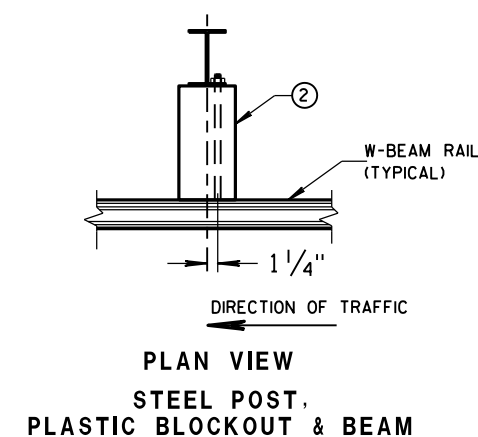
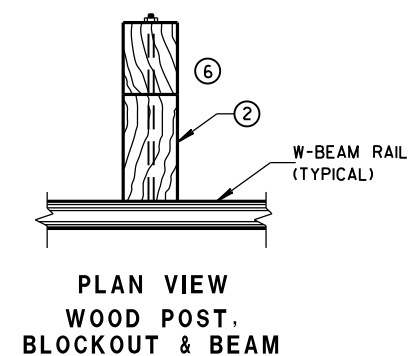
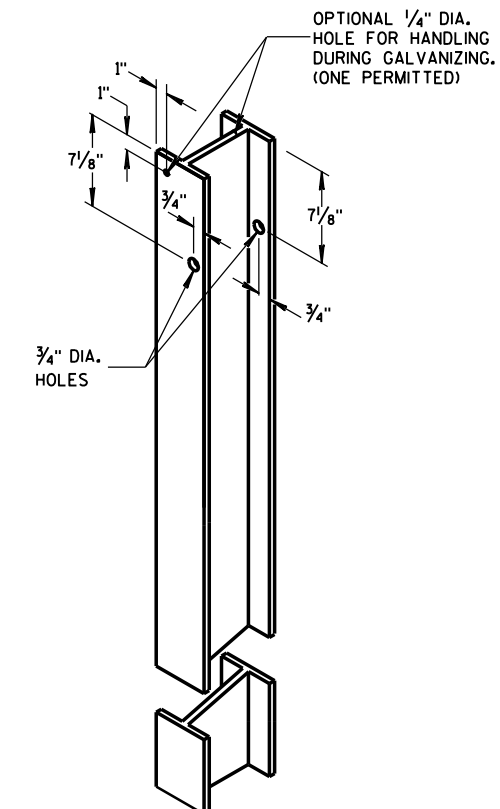
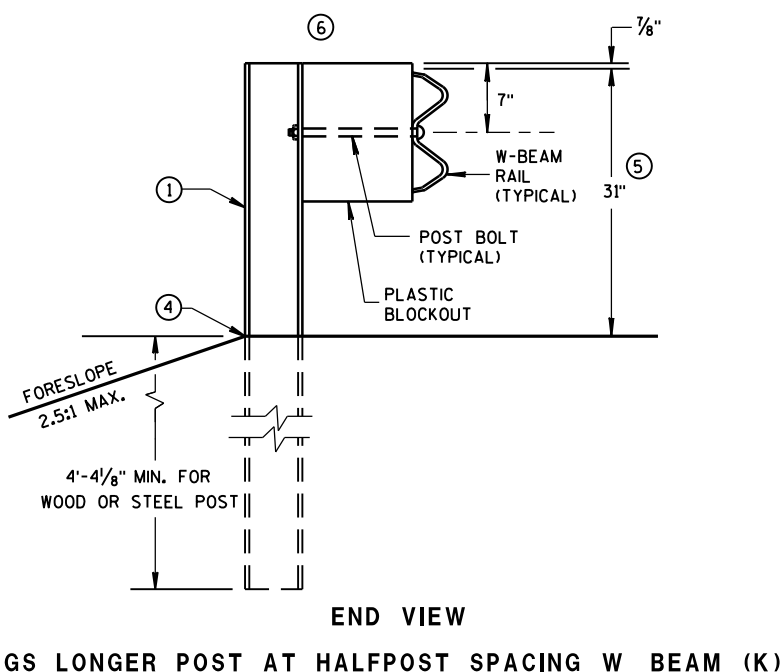
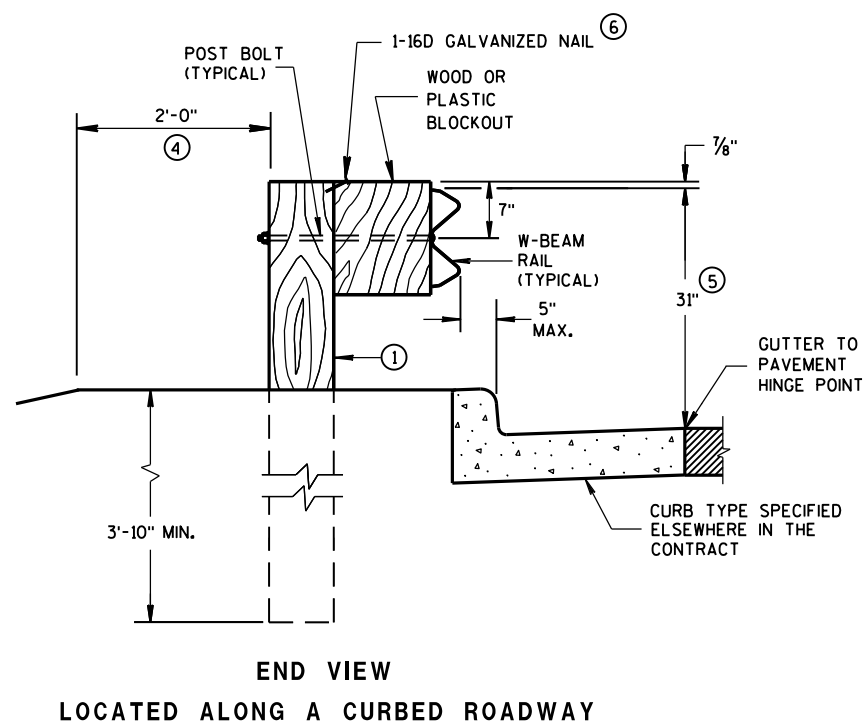
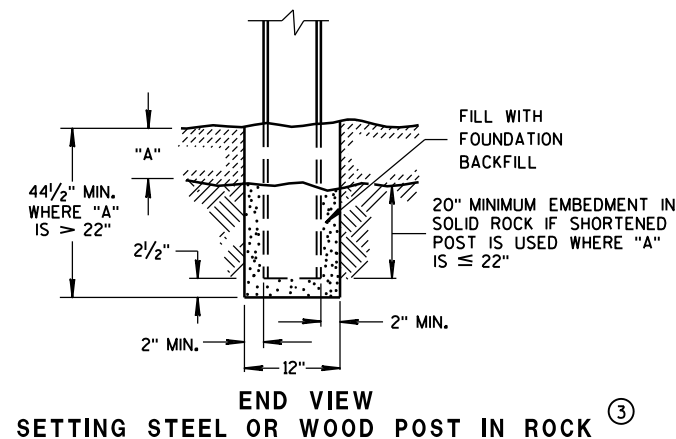
HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

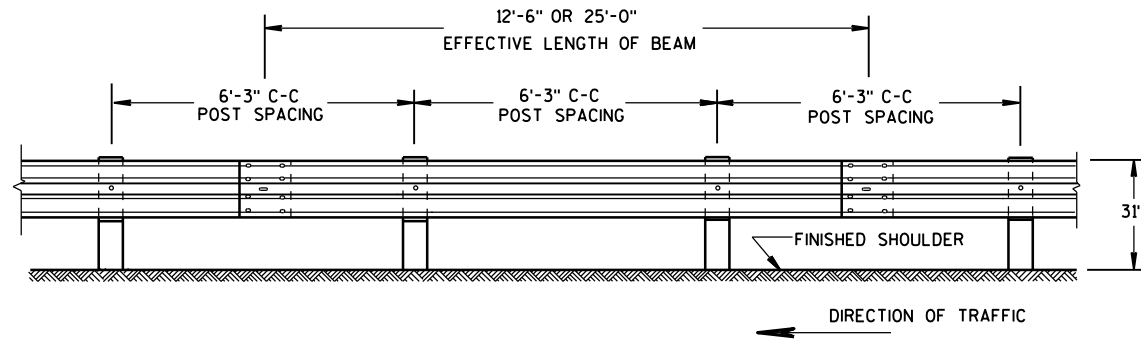
SAFETY EDGE _{SM}		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		
APPROVED DATE 11/30/2012	/S/ Jerry H. Zoaga ROADWAY STANDARDS ENGINEER	121 INT
FHWA		

- ① WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- ③ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2 INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AND INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- ④ WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- ⑤ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS $\pm 1"$. FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 3/4" TO 32".
- ⑥ WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



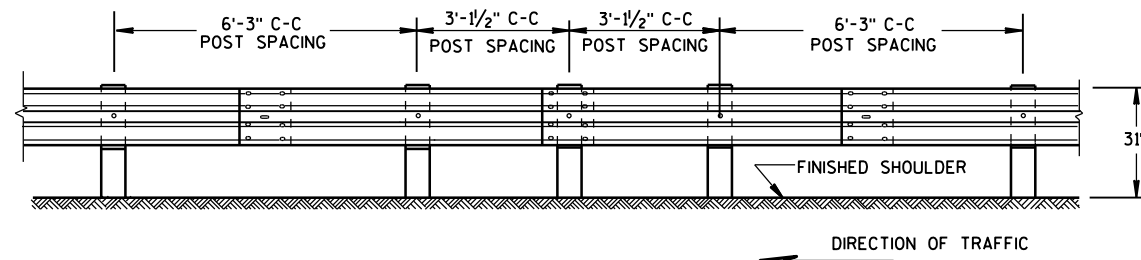
**MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 122



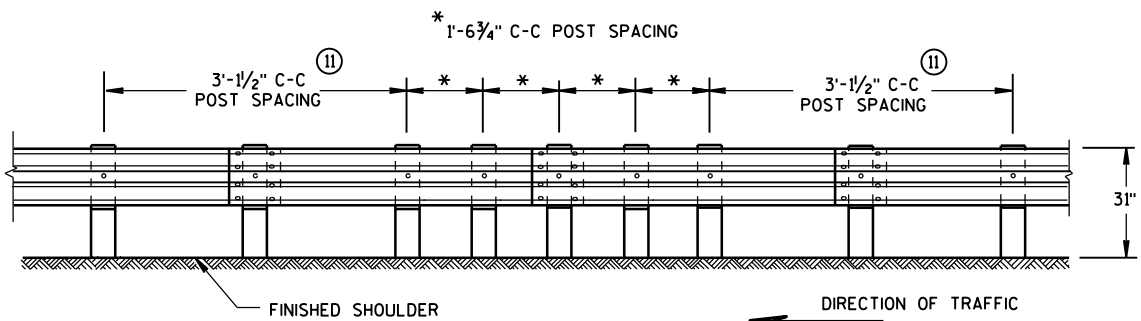
FRONT VIEW

POST SPACING STANDARD INSTALLATION



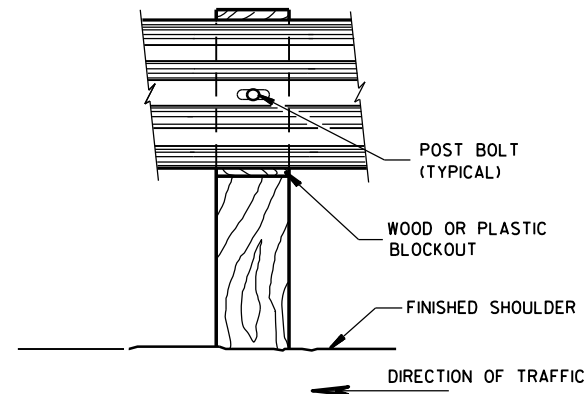
FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

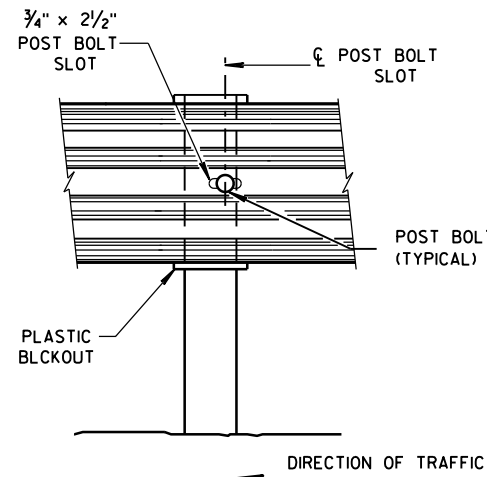


FRONT VIEW

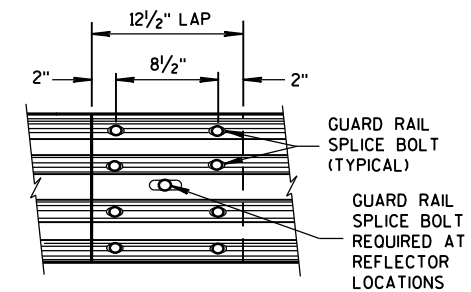
QUARTER POST SPACING (QS)



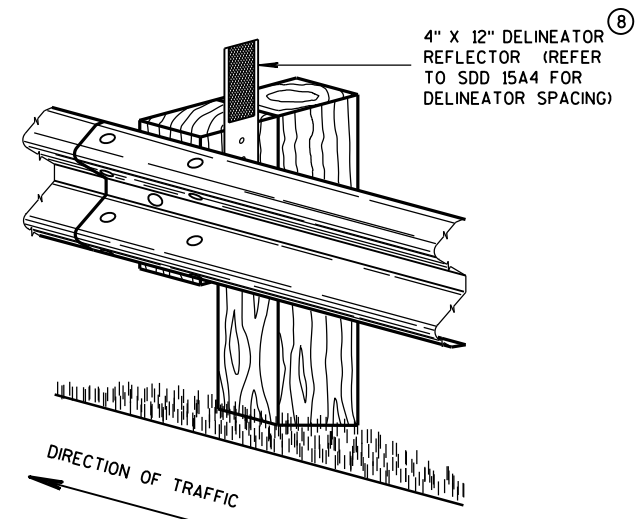
FRONT VIEW AT WOOD POST



FRONT VIEW AT STEEL POST



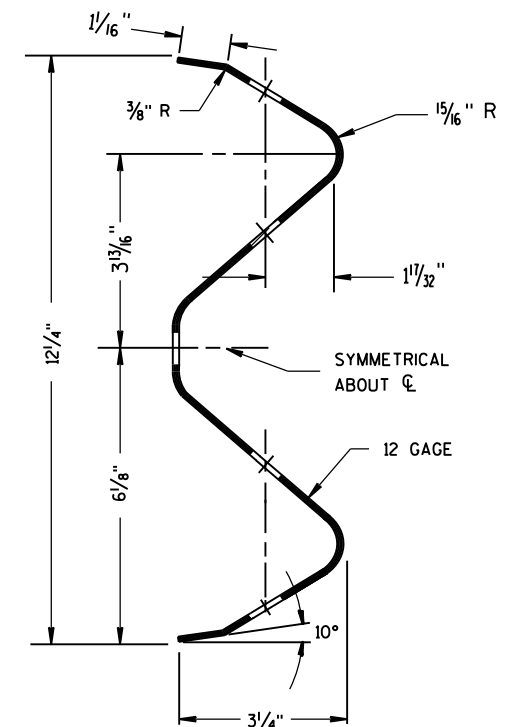
FRONT VIEW
MID-SPAN BEAM SPLICE



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

GENERAL NOTES

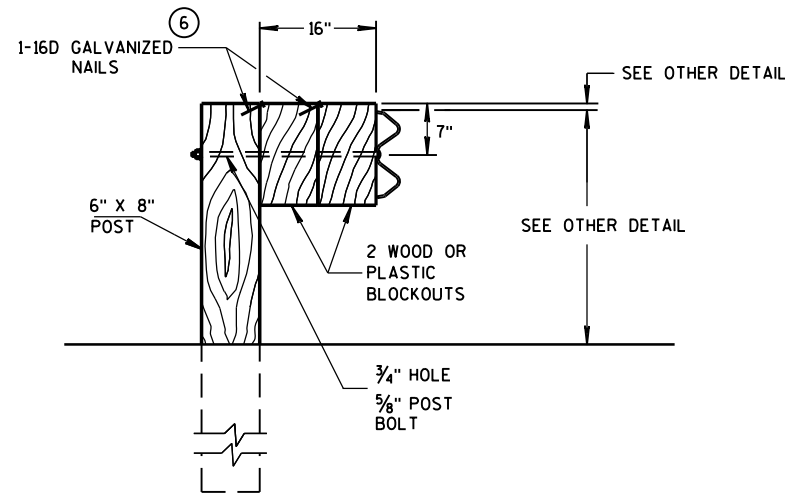
- ⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.
 - ⑪ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.
- POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.
- GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



SECTION THRU W-BEAM RAIL

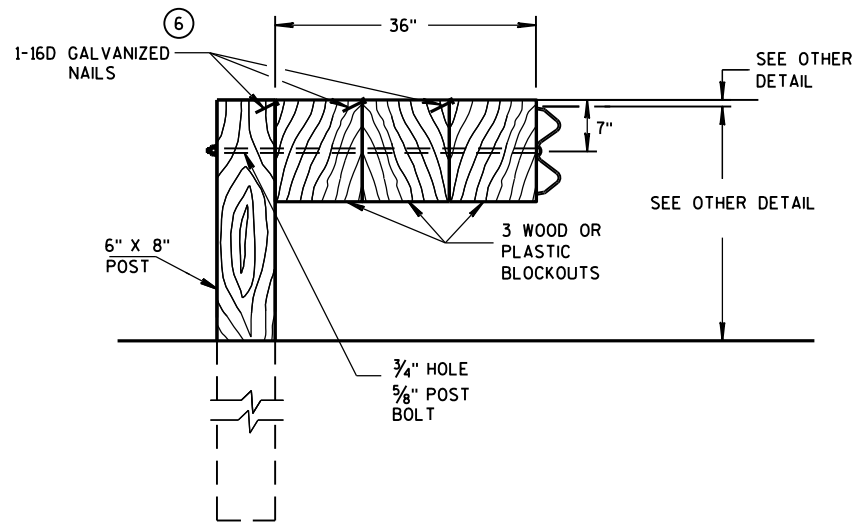
MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 123



DETAIL FOR 16" BLOCKOUT DEPTH

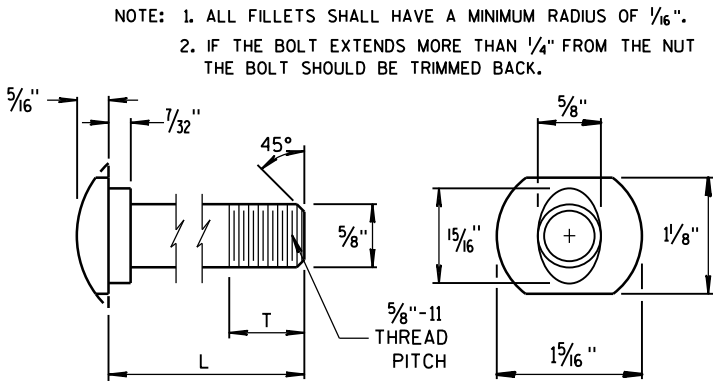
IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



DETAIL FOR 36" BLOCKOUT DEPTH

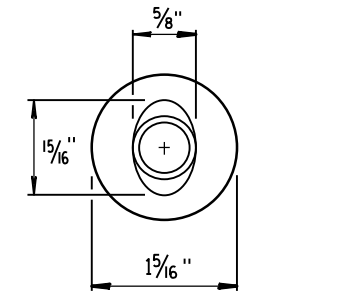
NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

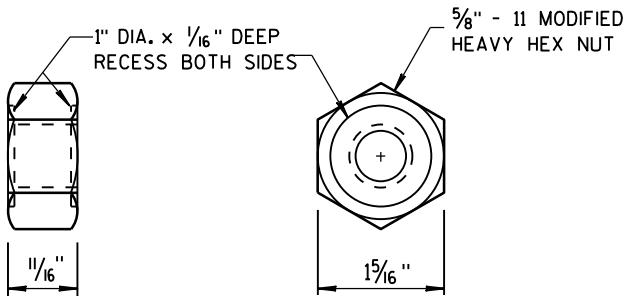


POST BOLT TABLE

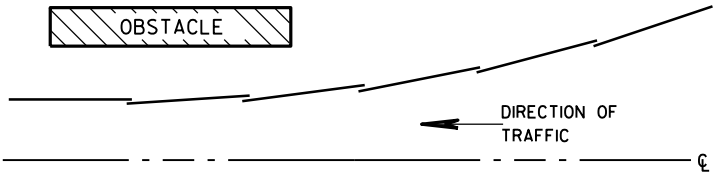
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



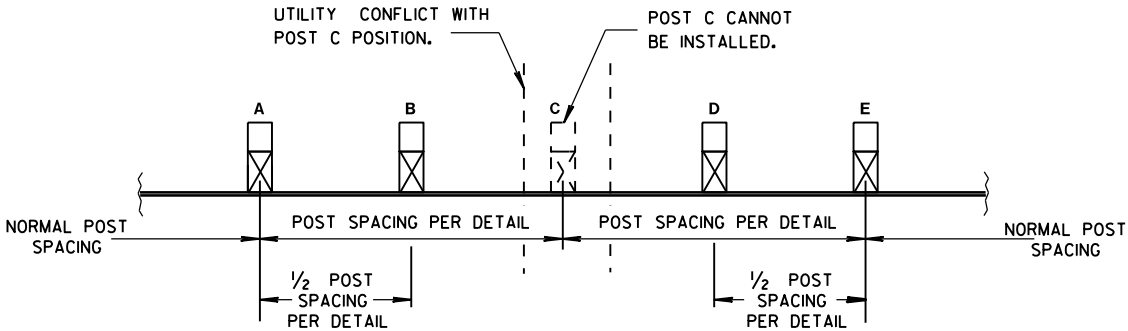
ALTERNATE BOLT HEAD



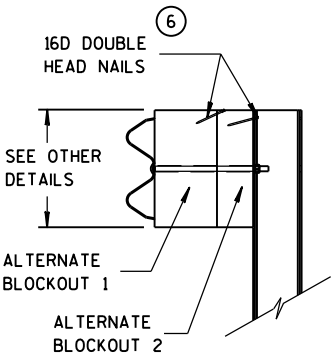
POST BOLT, SPLICE BOLT AND RECESS NUT



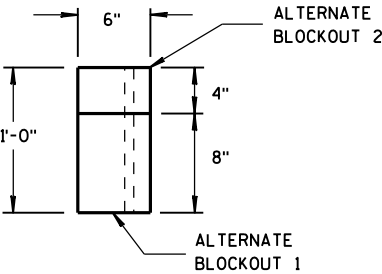
PLAN VIEW
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



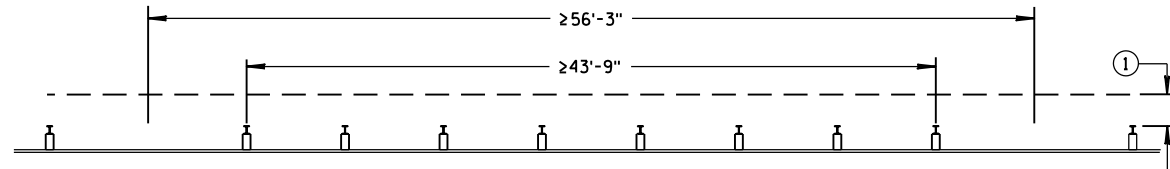
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

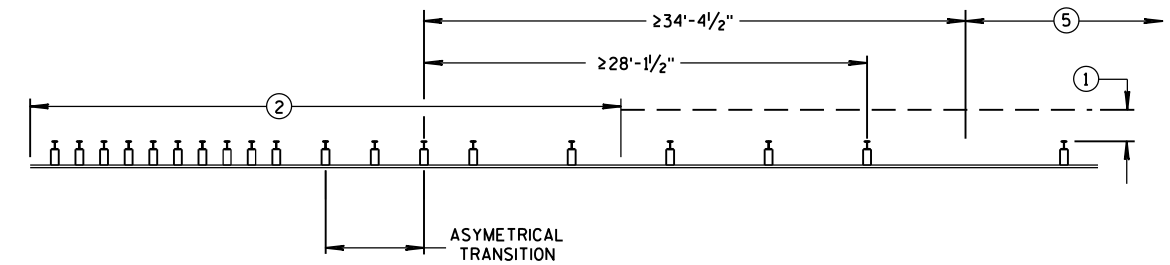
MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

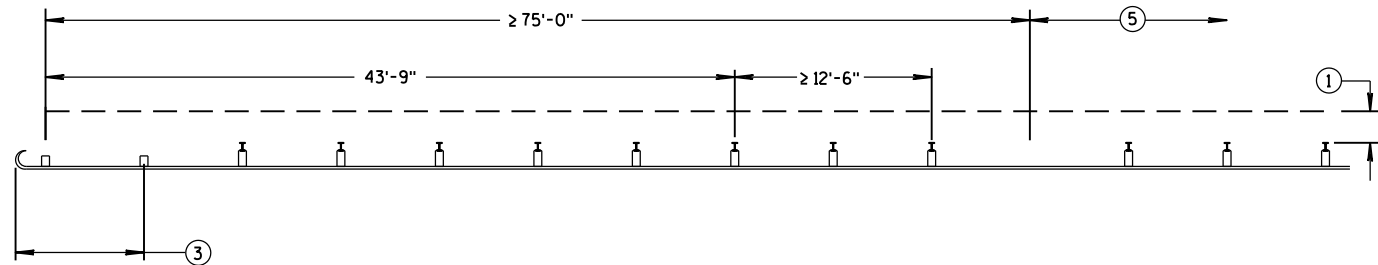
124



MISSING POST IN NORMAL BEAM GUARD RUN

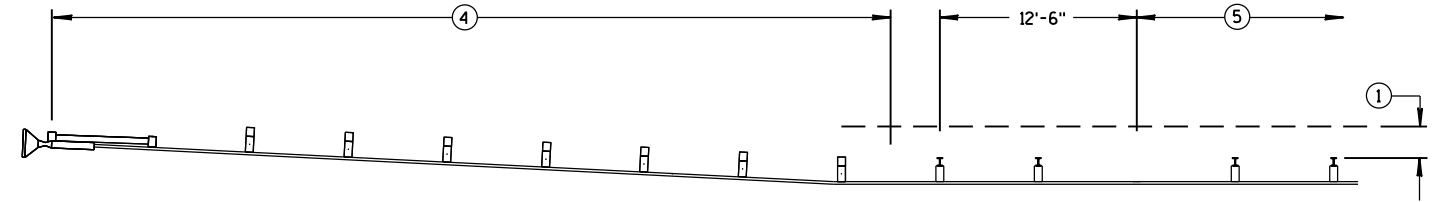


MISSING POST NEAR APPROACH THRIE BEAM TRANSITION

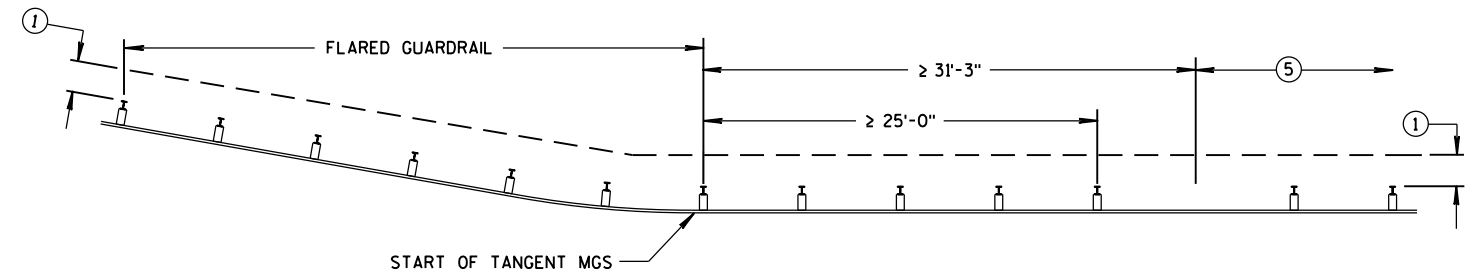


MISSING POST IN NORMAL BEAM GUARD RUN
NEAR TYPE 2 TERMINAL

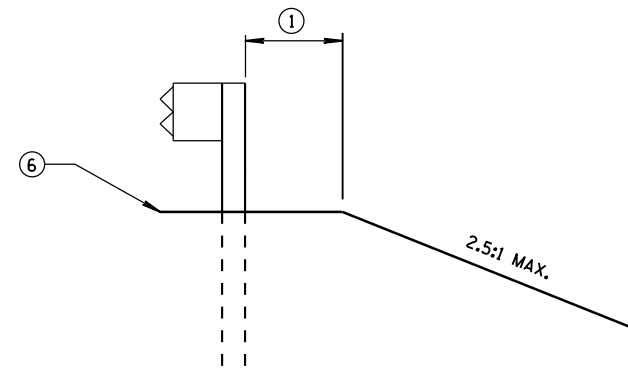
- ① MINIMUM OF 2 FEET OF GRADING BEHIND POST.
- ② SEE SDD 14B45 FOR MORE DETAILS.
- ③ SEE SDD 14B47 FOR MORE DETAILS.
- ④ SEE SDD 14B44 FOR MORE DETAILS.
- ⑤ SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.
- ⑥ SEE PLAN FOR SHOULDER DESIGN.



MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



MISSING POST IN NORMAL BEAM GUARD RUN
NEAR FLARED BEAM GUARD



CROSS SECTION VIEW

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Rodney Taylor
DATE ROADWAY STANDARDS (125) ENT
FHWA UNIT SUPERVISOR

GENERAL NOTES

- (A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.
- (B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.
- (C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.
- (F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.
- (H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

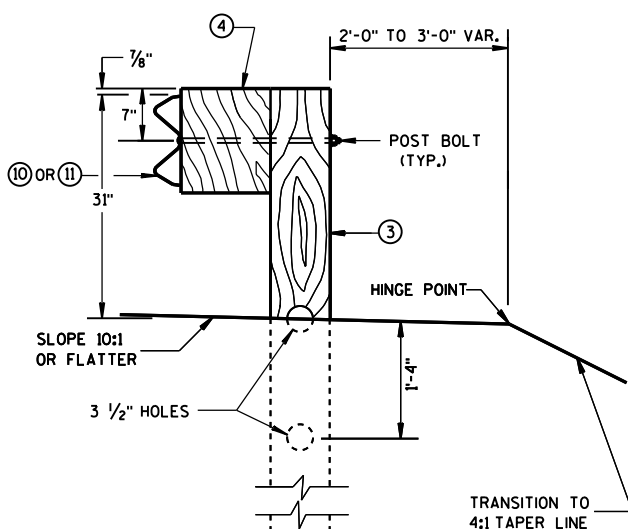
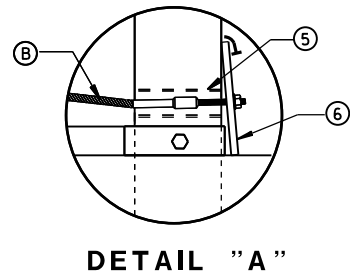
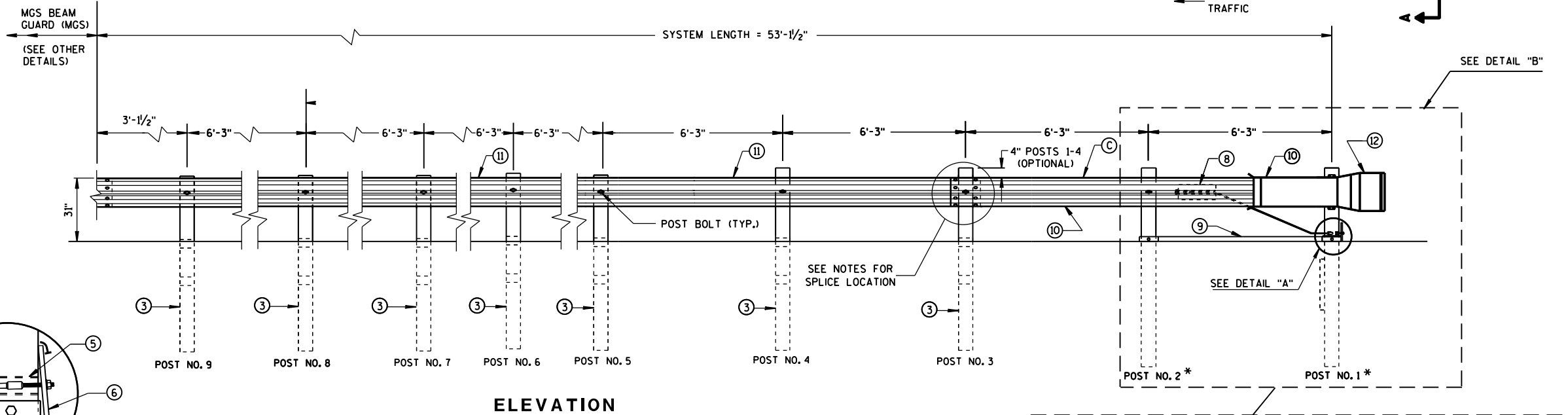
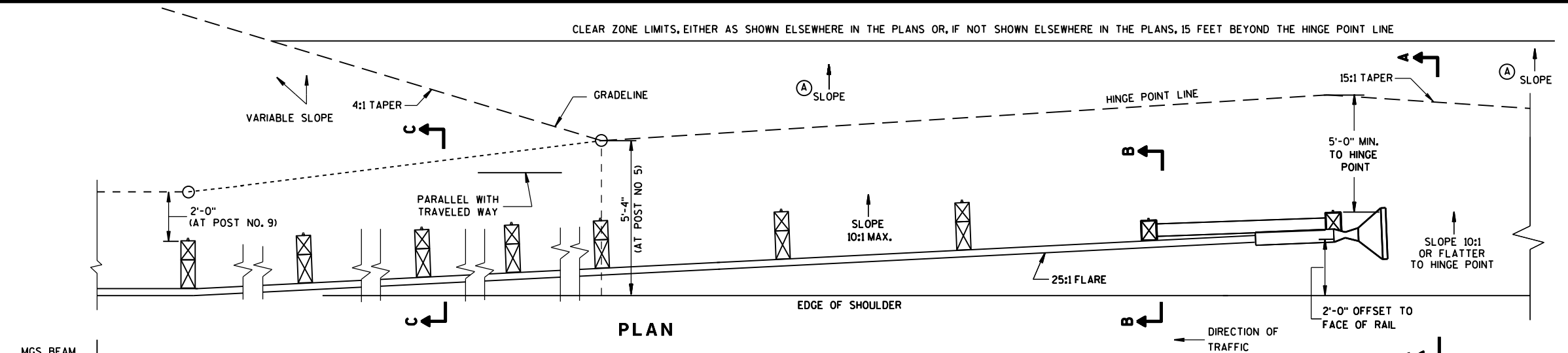
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

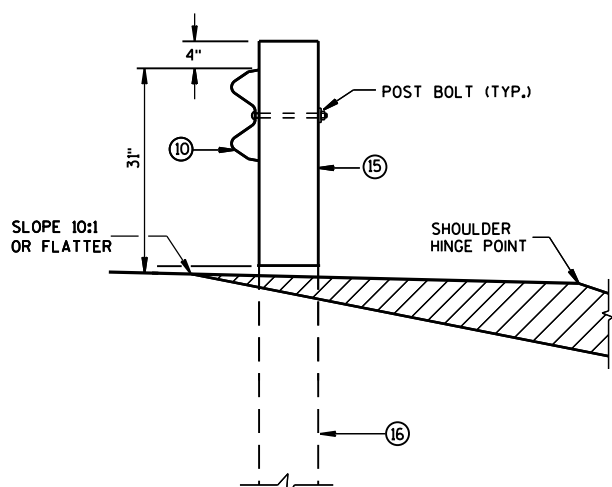
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

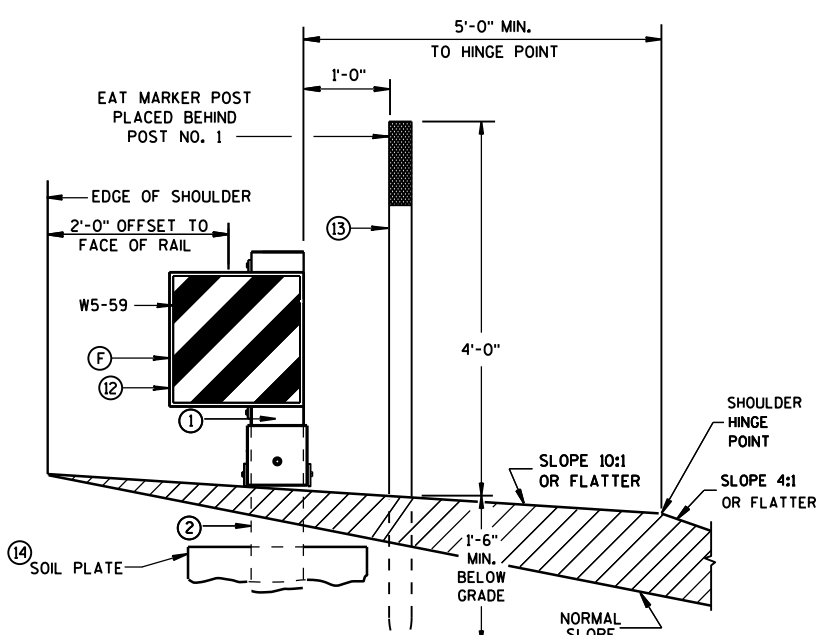
THE CENTER OF THE UPPER 3/2" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.



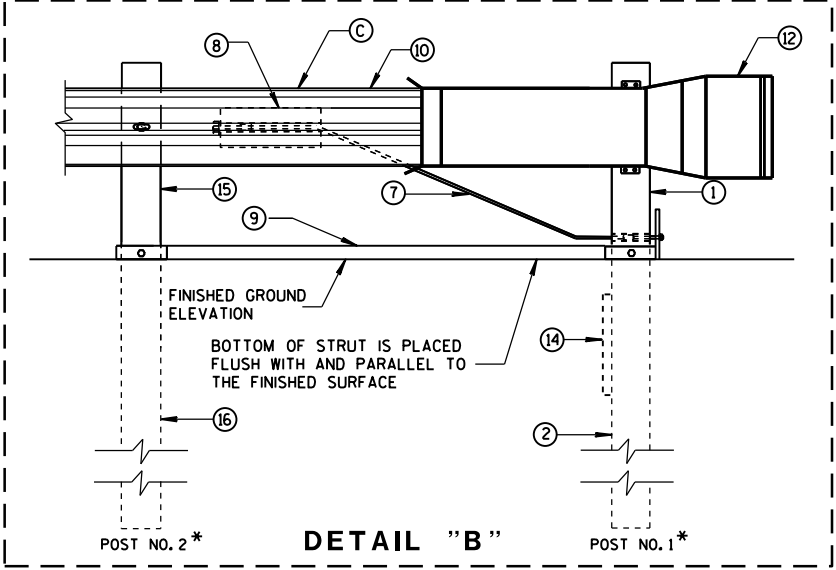
SECTION C-C
TYPICAL AT POST NOS. 3-9



SECTION B-B
TYPICAL AT POST NO. 2 *



SECTION A-A
TYPICAL AT POST NO. 1 *

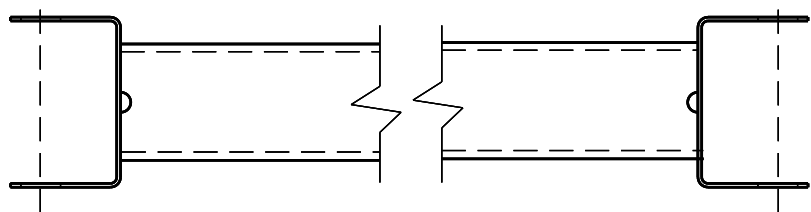


DETAIL B

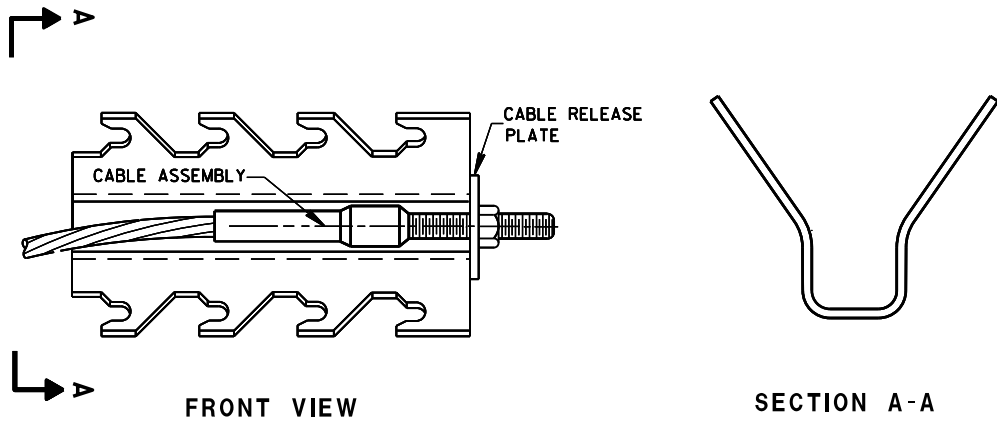
MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

126

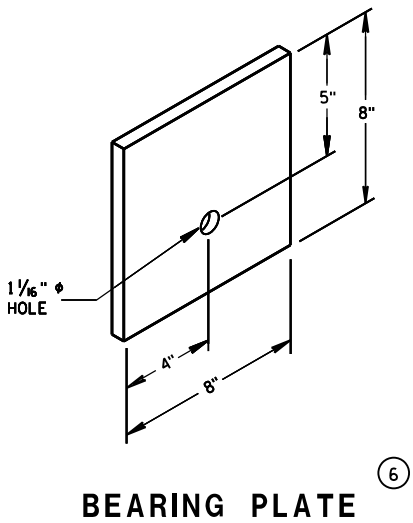


GENERIC GROUND STRUT (9) (H)

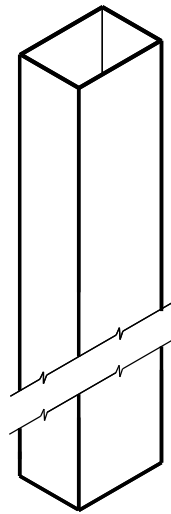


GENERIC ANCHOR CABLE BOX (8) (H)

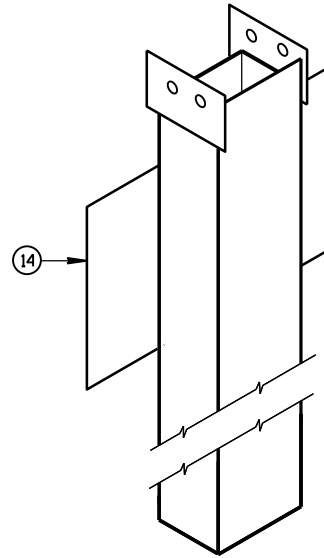
BILL OF MATERIALS	
PART NO.	DESCRIPTION
MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.	
(1)	UPPER POST NO.1 6" X 6" TUBE
(2)	LOWER POST NO.1
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	IMPACT HEAD
(13)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
(14)	SOIL PLATE
(15)	UPPER POST NO. 2
(16)	LOWER POST NO. 2



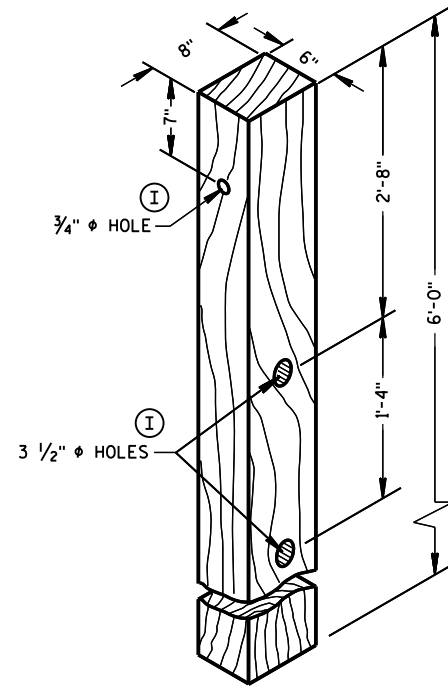
BEARING PLATE (6)



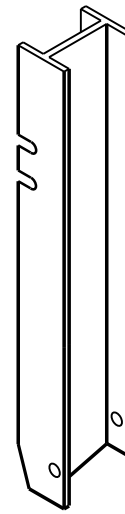
UPPER POST NO. 1⁽¹⁾



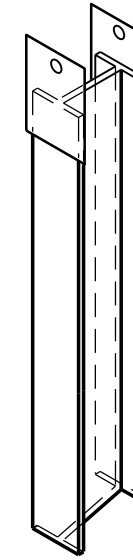
LOWER POST NO. 1⁽²⁾



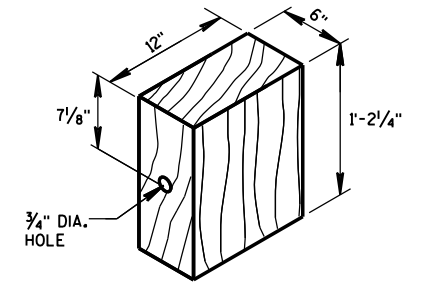
POSTS NUMBER 3-9
WOOD CRT POST⁽³⁾



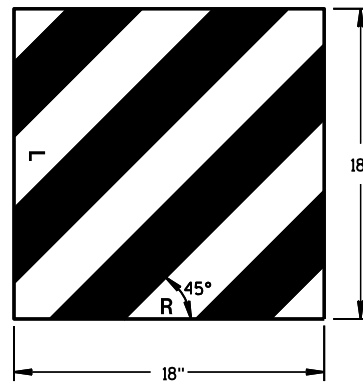
UPPER POST NO. 2⁽¹⁵⁾



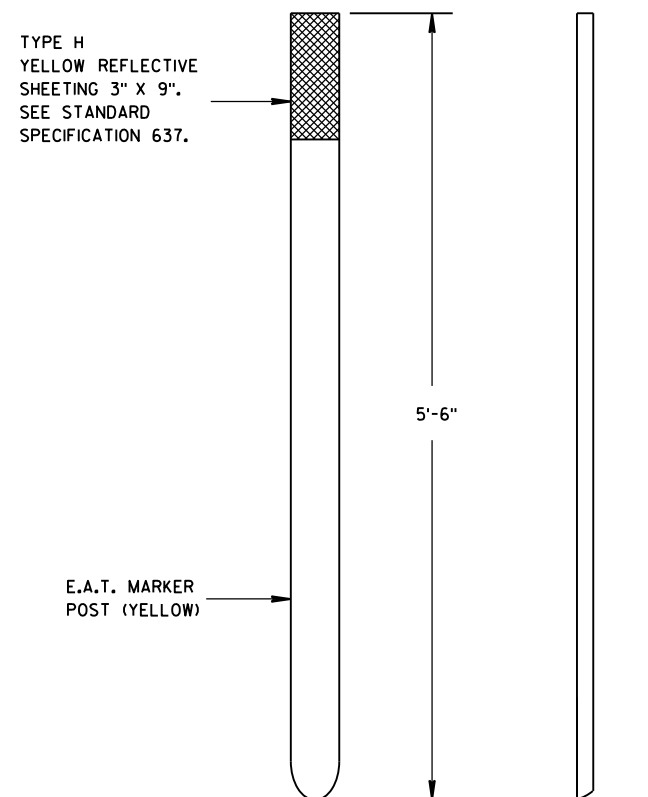
LOWER POST NO. 2⁽¹⁶⁾



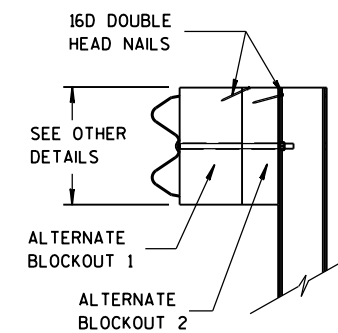
WOOD BLOCKOUT⁽⁴⁾
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



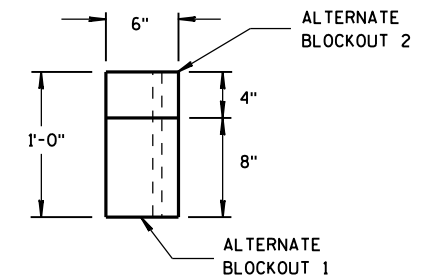
W5-59
REFLECTIVE SHEETING DETAIL^(H)



FRONT VIEW
SIDE VIEW
E.A.T. MARKER POST⁽¹³⁾



SIDE VIEW



TOP VIEW

ALTERNATE WOOD
BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017

DATE

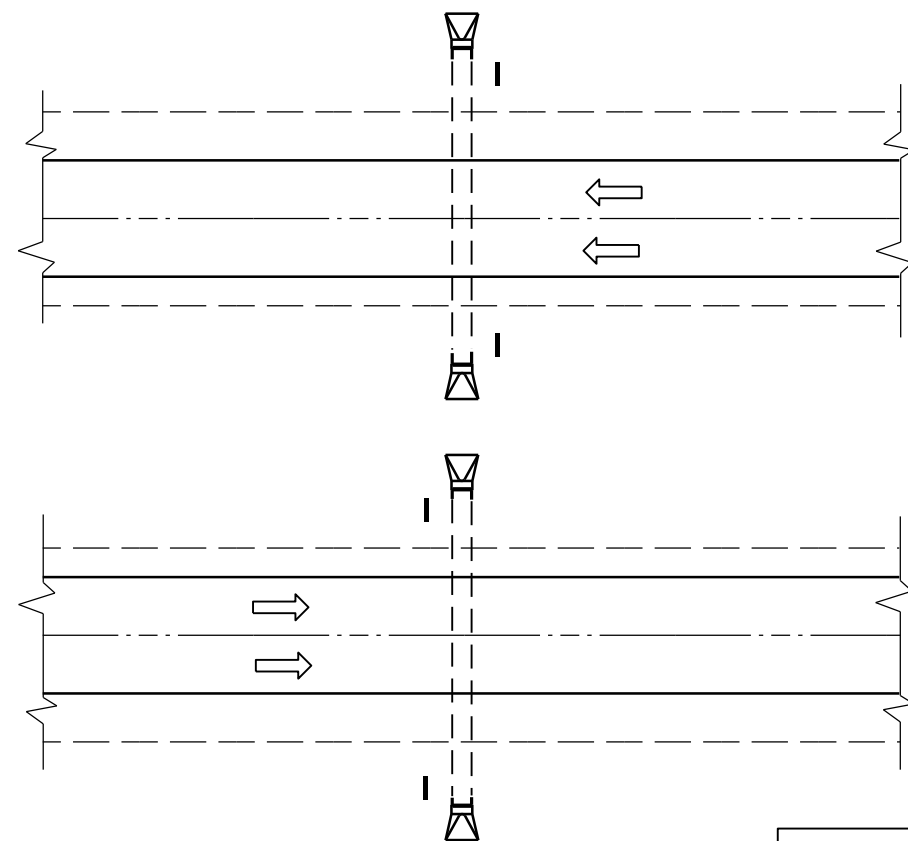
FHWA

/S/ Rodney Taylor

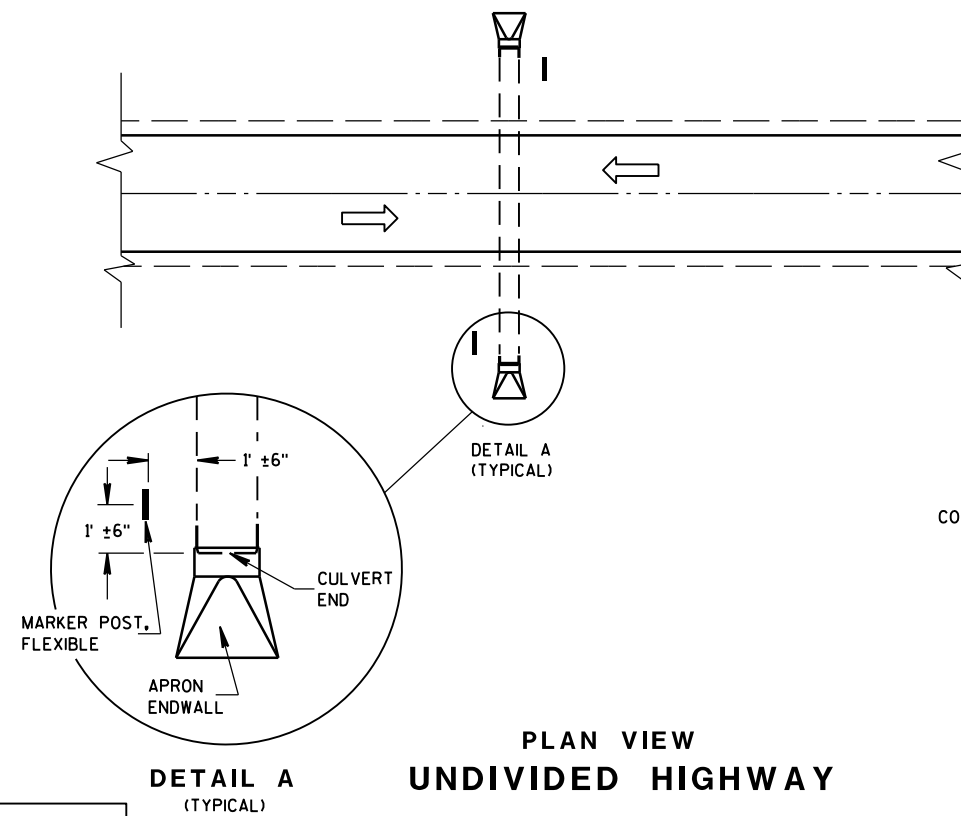
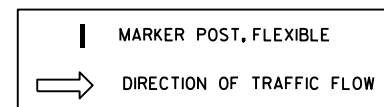
ROADWAY STANDARDS 128

UNIT SUPERVISOR

S.D.D. 14 B 44-3C



PLAN VIEW
DIVIDED HIGHWAY

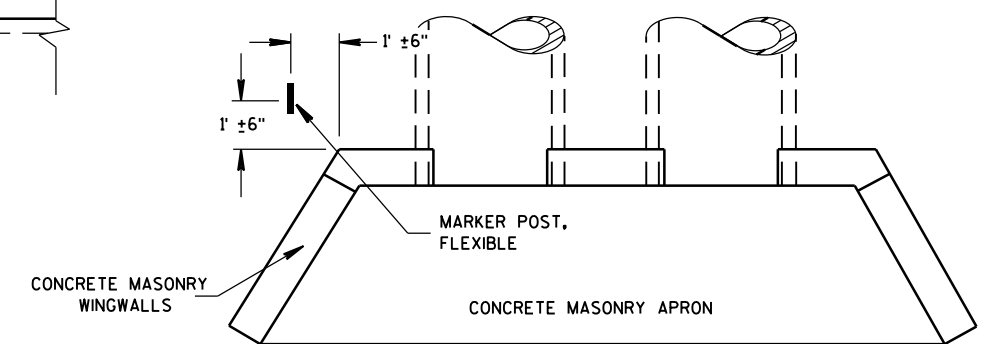


PLAN VIEW
UNDIVIDED HIGHWAY

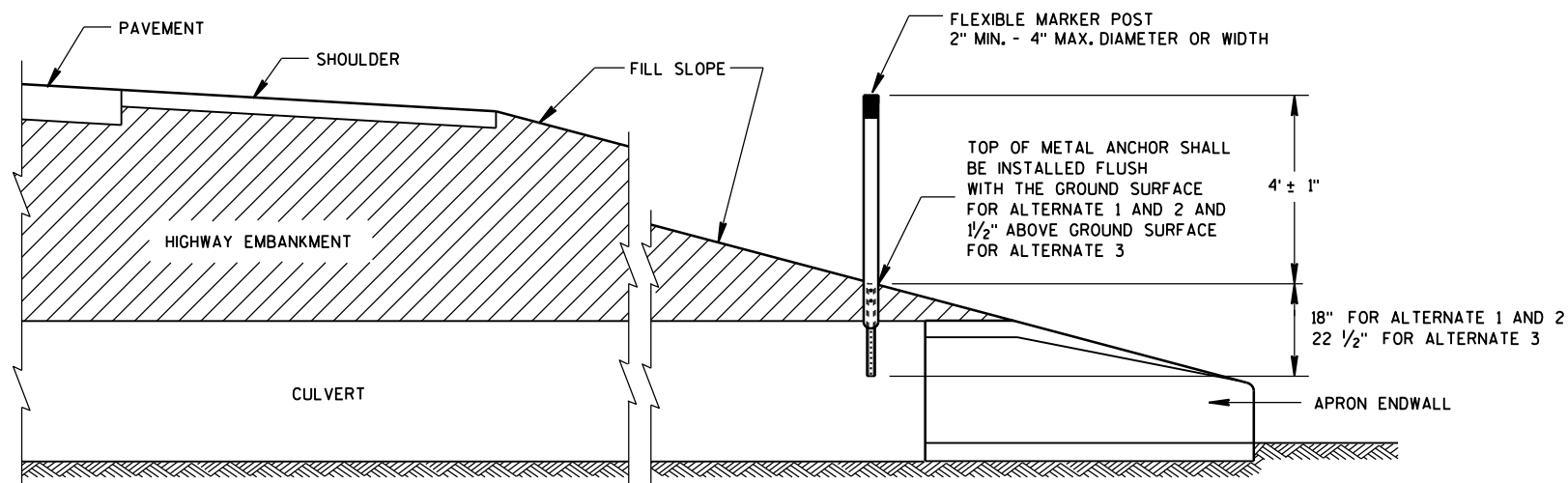
FLEXIBLE MARKER POST LOCATION

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.



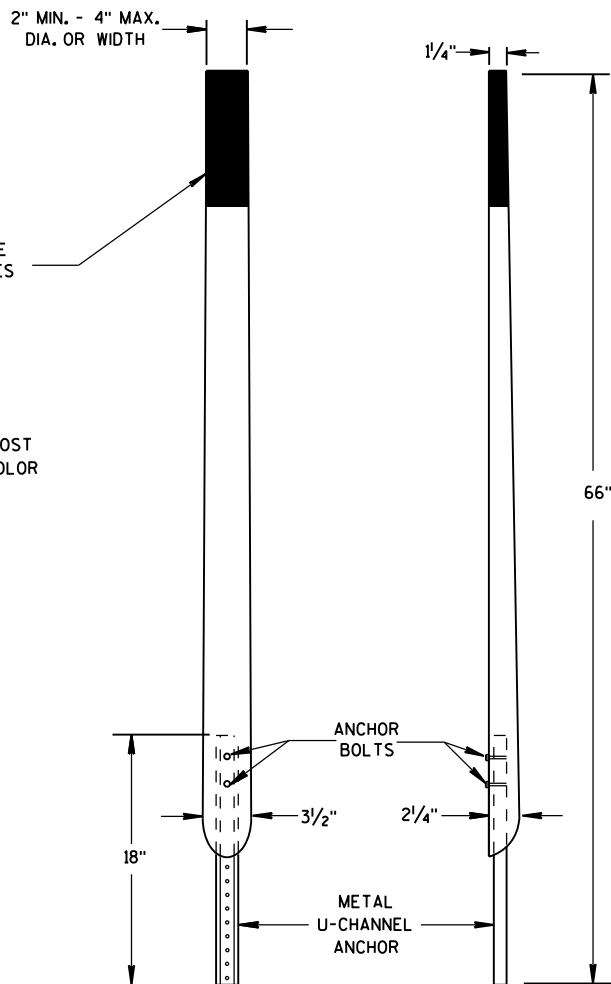
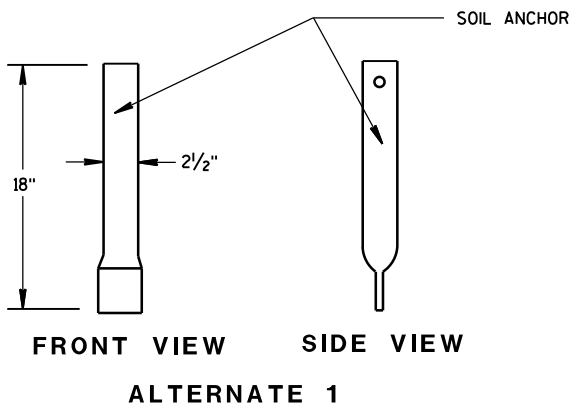
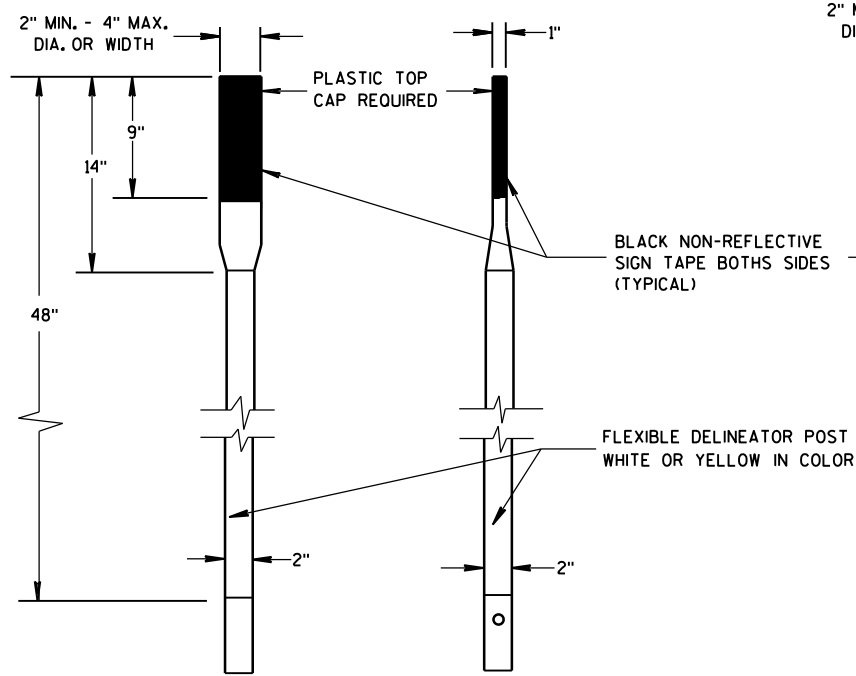
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



CROSS SECTION
FLEXIBLE MARKER POST

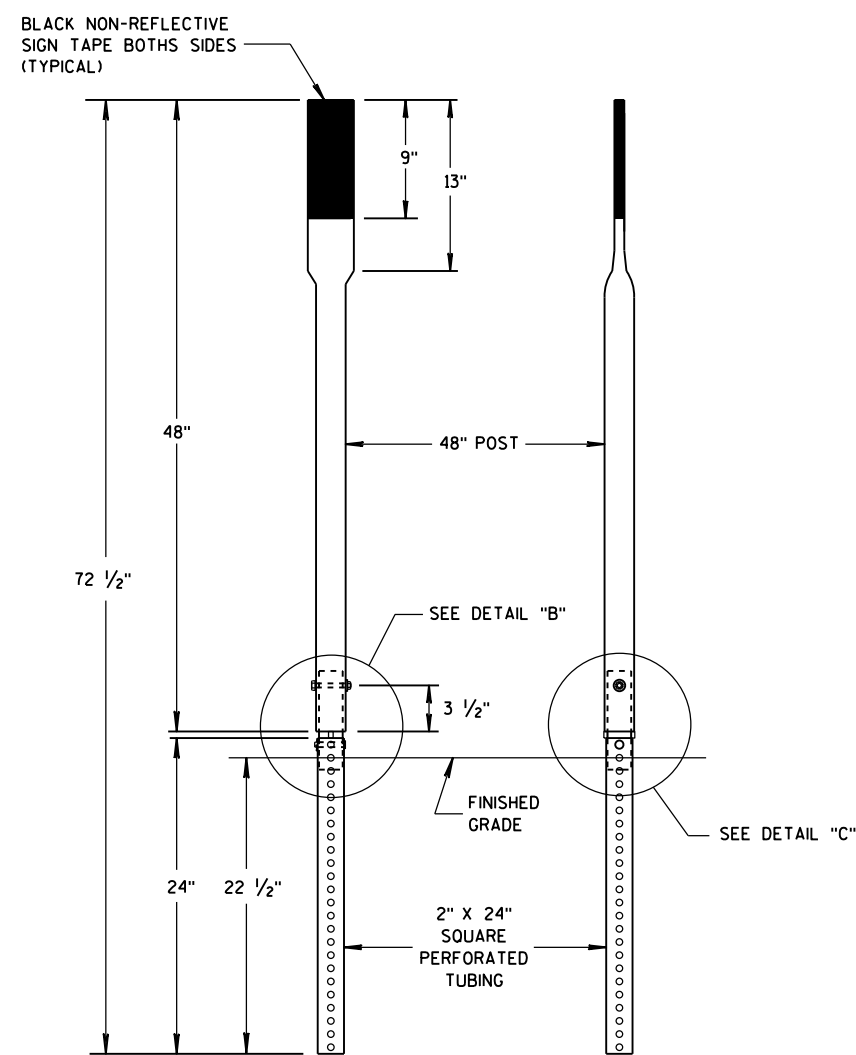
FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 129

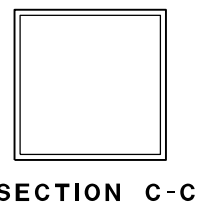


FRONT VIEW SIDE VIEW
ALTERNATE 2

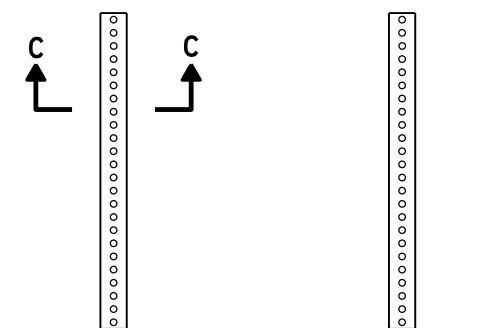
FLEXIBLE MARKER POSTS



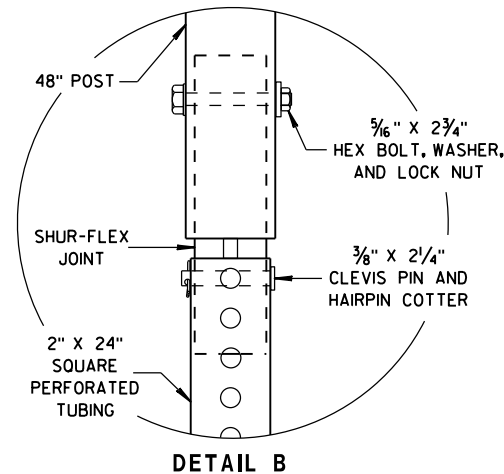
FRONT VIEW SIDE VIEW
ALTERNATE 3



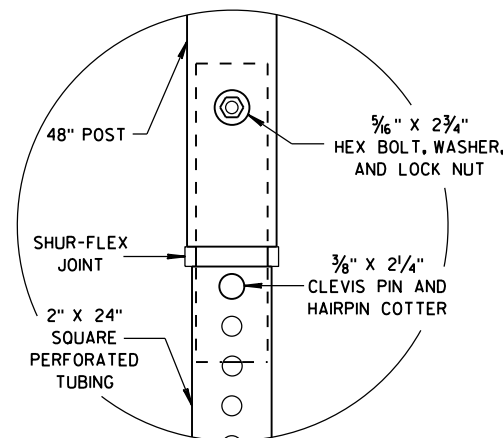
SECTION C-C



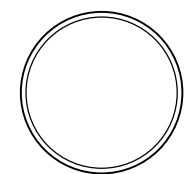
FRONT VIEW SIDE VIEW
ALTERNATE 3



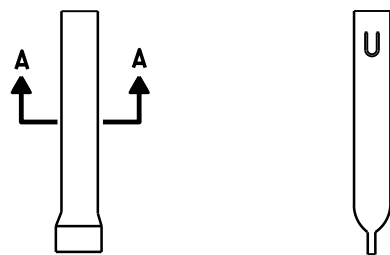
DETAIL B



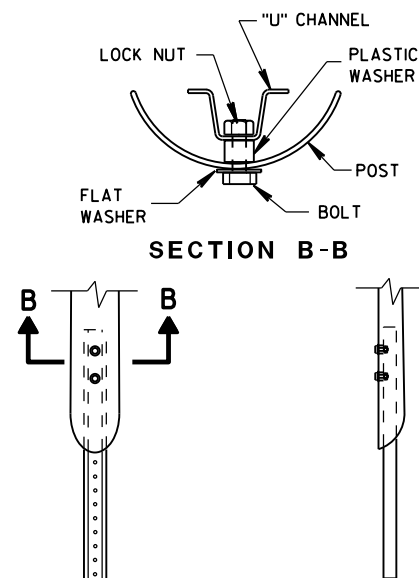
DETAIL C



SECTION A-A



FRONT VIEW SIDE VIEW
ALTERNATE 1



FRONT VIEW SIDE VIEW
ALTERNATE 2

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/1/2012

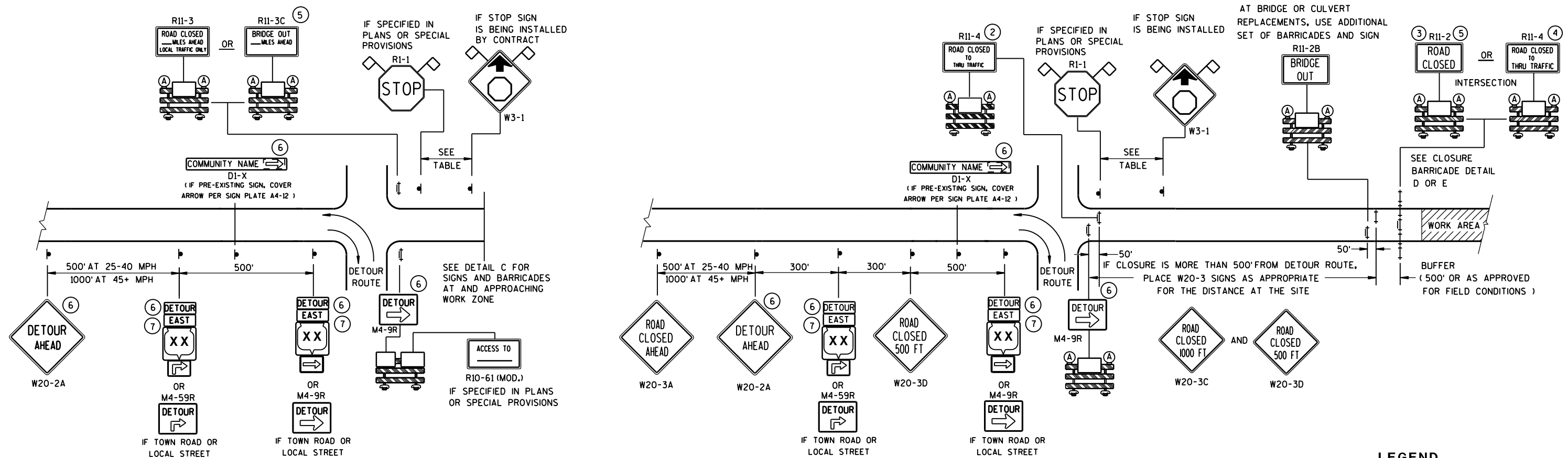
DATE

FHWA

/S/ Travis Feltes

STATE TRAFFIC ENGINEER 130

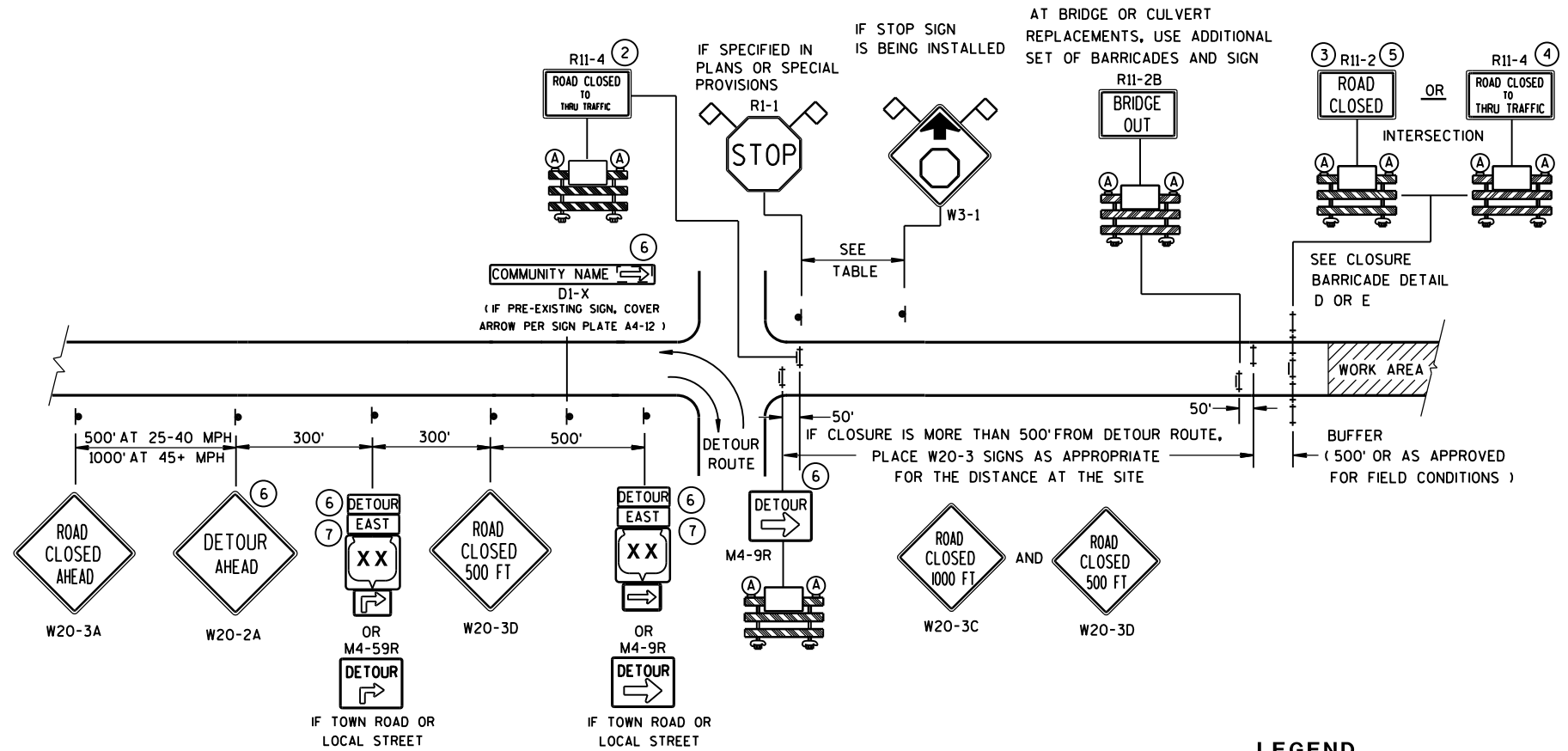
IGN



DETAIL A

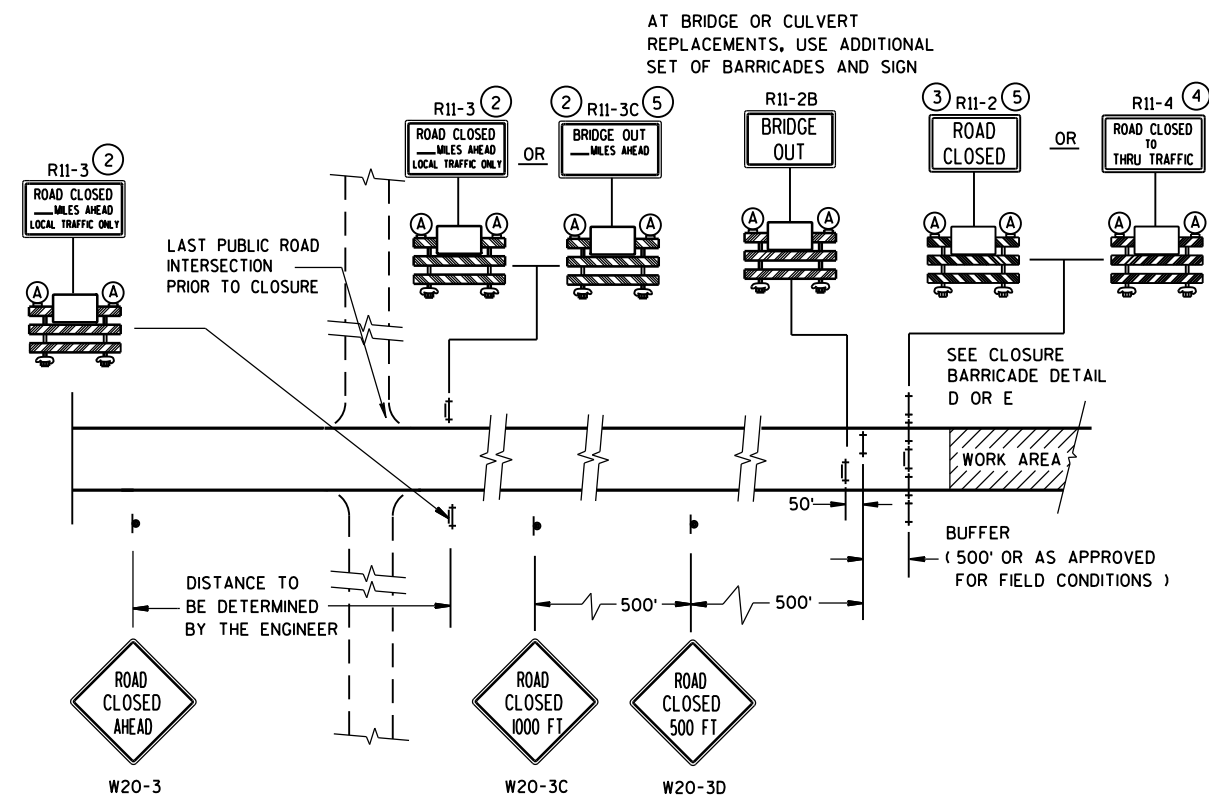
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (F T)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

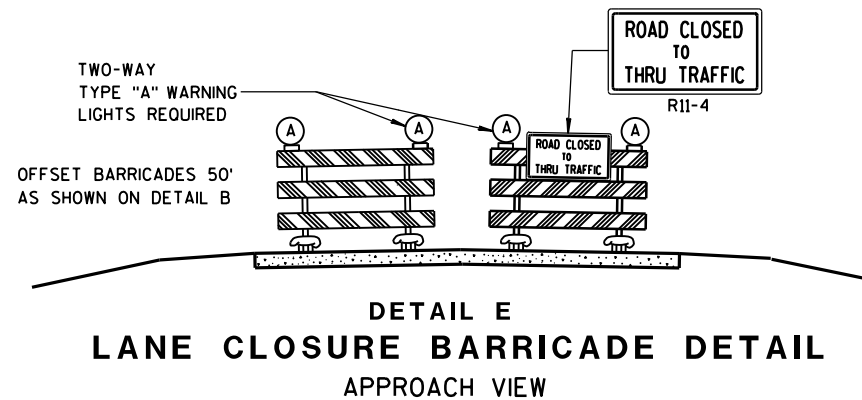
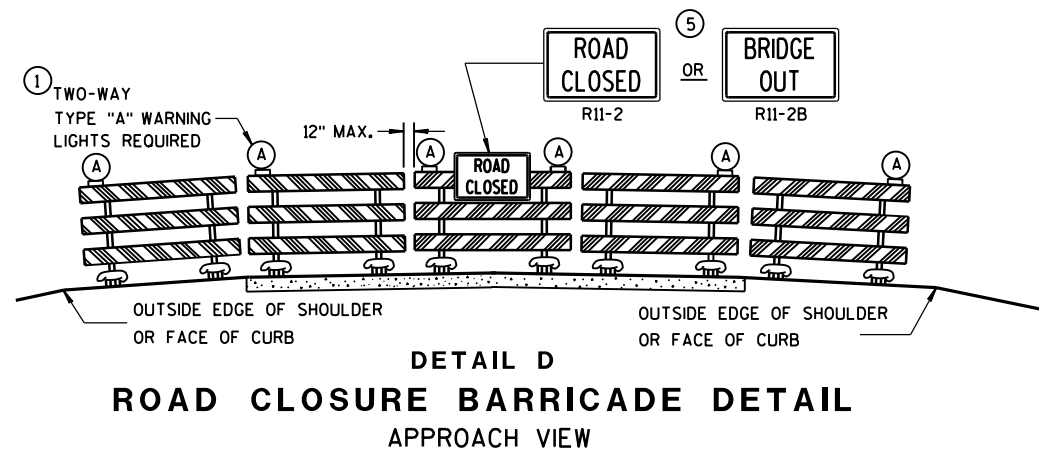
- # LEGEND
-  SIGN ON PERMANENT SUPPORT
-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  WORK AREA
-  M4-8
-  M3-X
-  M1-4
-  M1-5A
-  M1-6
-  M05-1
-  M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 /S/ Peter Amakobe Atepe
DATE STATEWIDE WORK ZO 131 FIC
FHWA SAFETY ENGINEER



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.

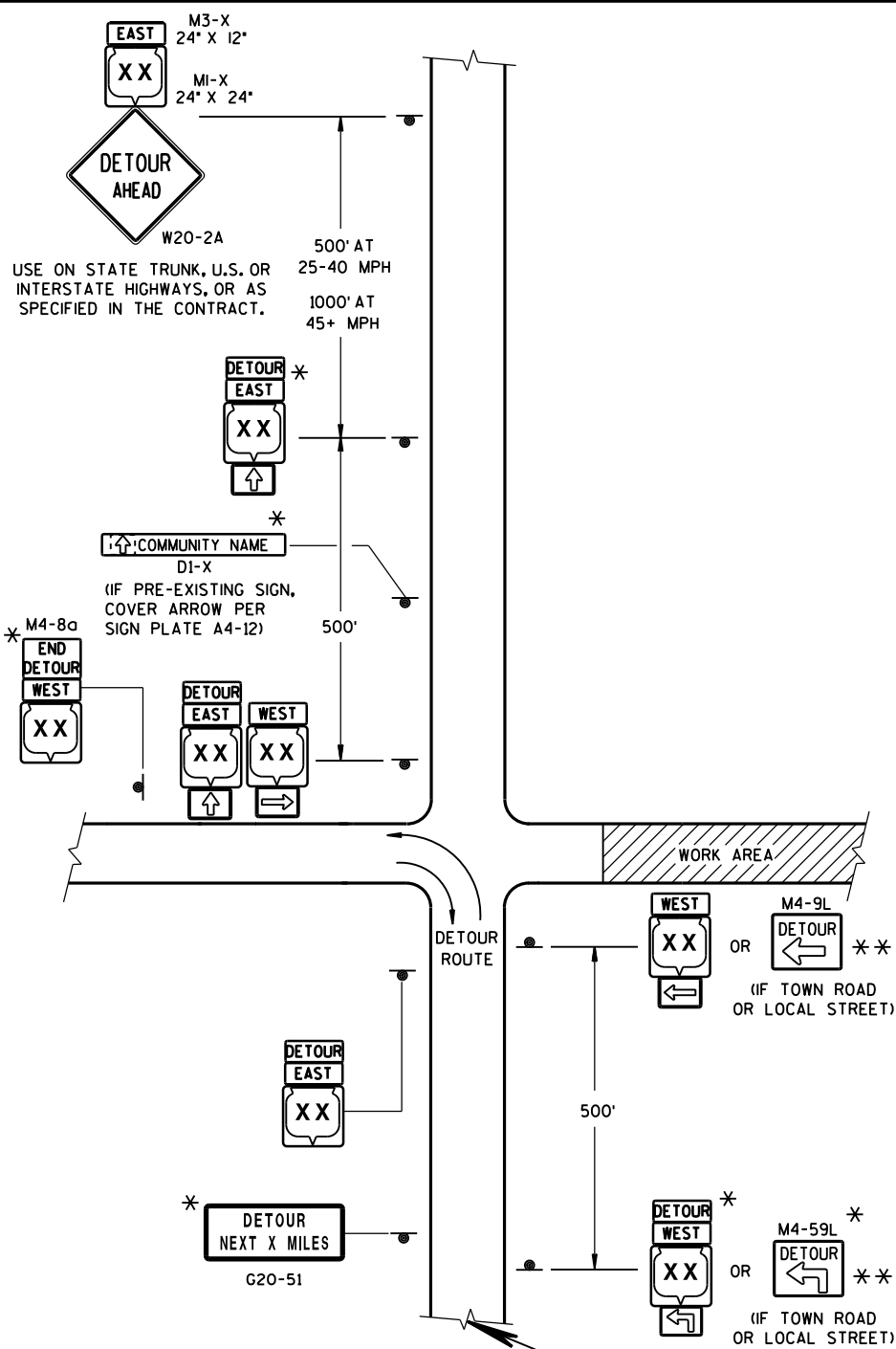
R1-1 SHALL BE 36" X 36".

- 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

Sept. 2015 /S/ Peter Amokobe Atepe
DATE STATEWIDE WORK ZO 132 FIC
FHWA SAFETY ENGI



LEGEND

SIGN ON PERMANENT SUPPORT

WORK AREA

M4-8
M3-X

COUNTY
MI-4 MI-5A MI-6

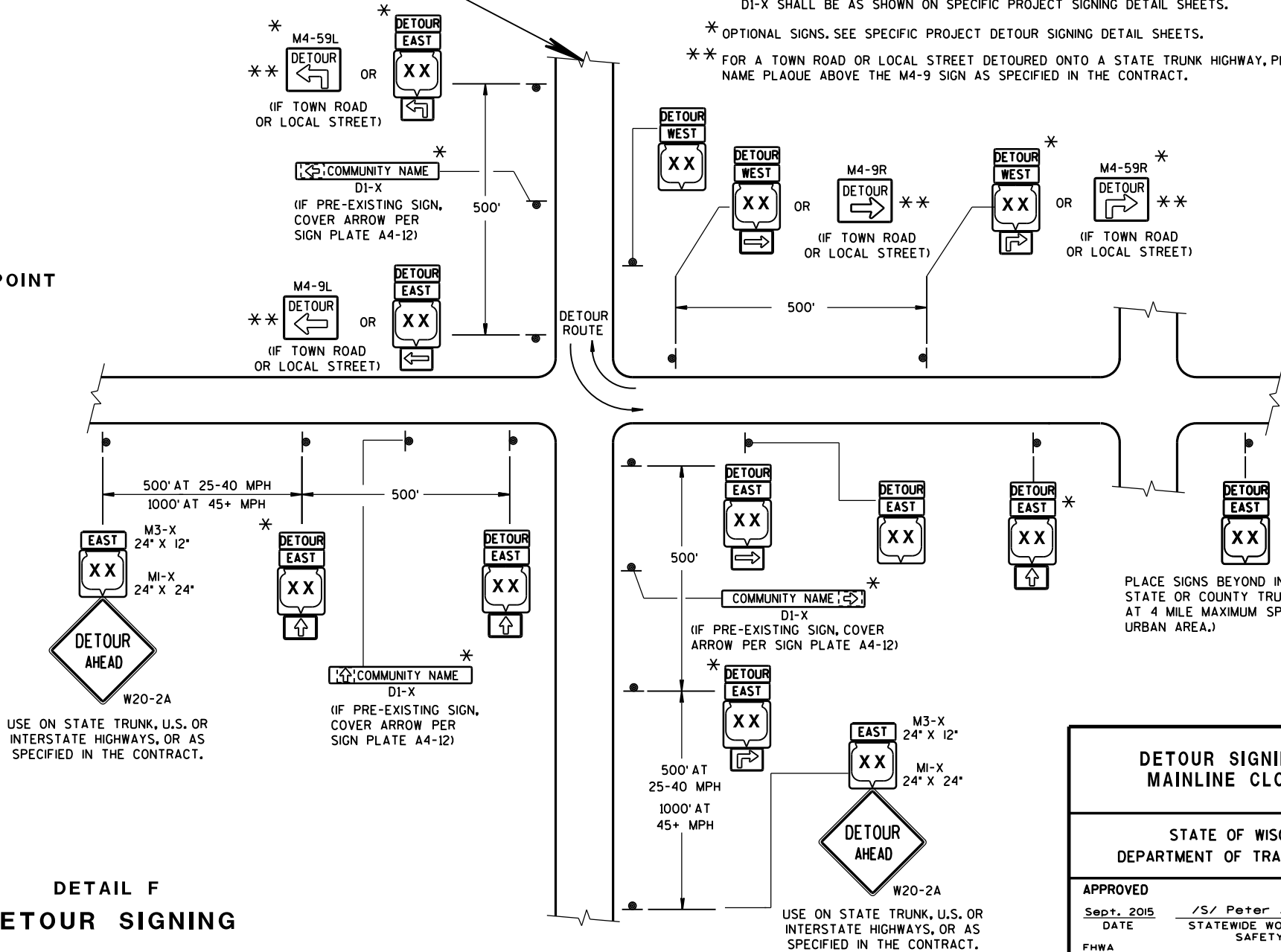
M05-1 OR M06-1 OR M06-1

SEE SPECIFIC PROJECT DETOUR
SIGNING DETAIL SHEETS AND
DETAIL A OR B ON SDD 15C2-SHEET "a"

THIS DRAWING PROVIDES GENERAL GUIDANCE
ON TYPICAL DETOUR SIGN LAYOUT AND SPACING.
SEE PROJECT DETOUR SIGNING SHEETS FOR
SPECIFIC DETAILS FOR EACH PROJECT.

MATCH POINT

DETAIL F
DETOUR SIGNING



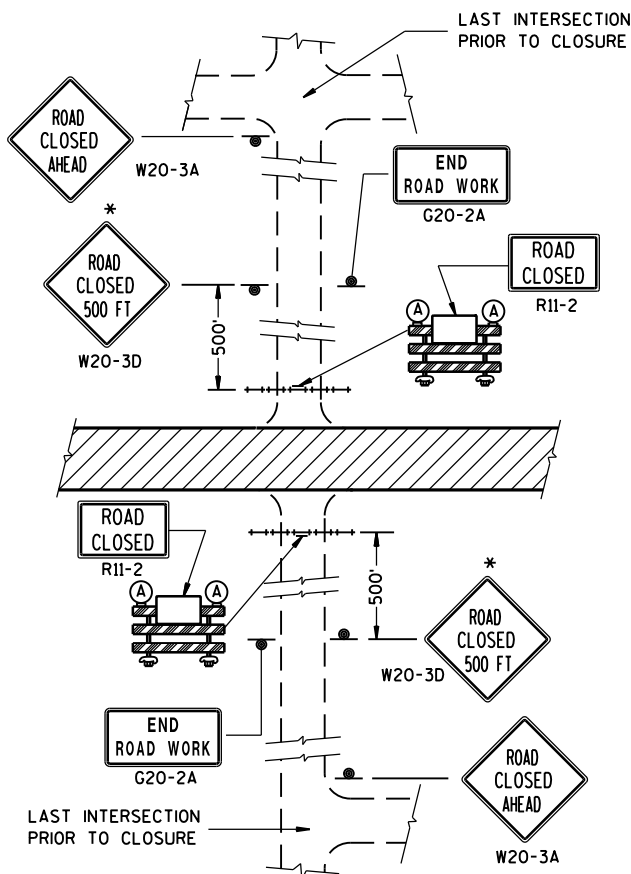
GENERAL NOTES

- 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.)
 - M05-1 AND M06-1 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.

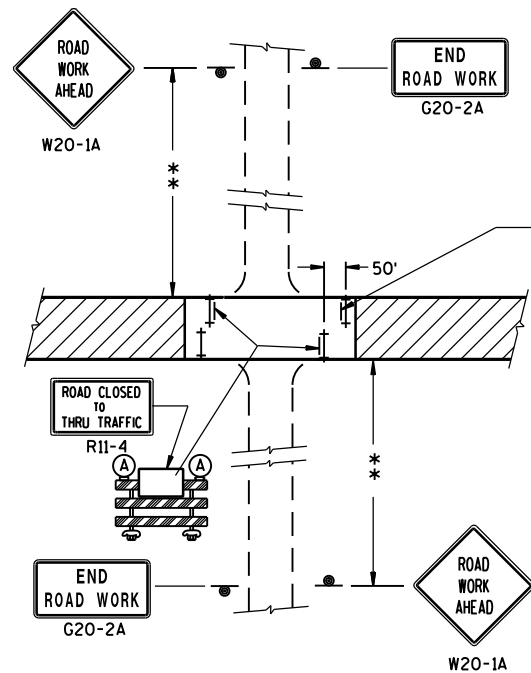
**DETOUR SIGNING FOR
MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

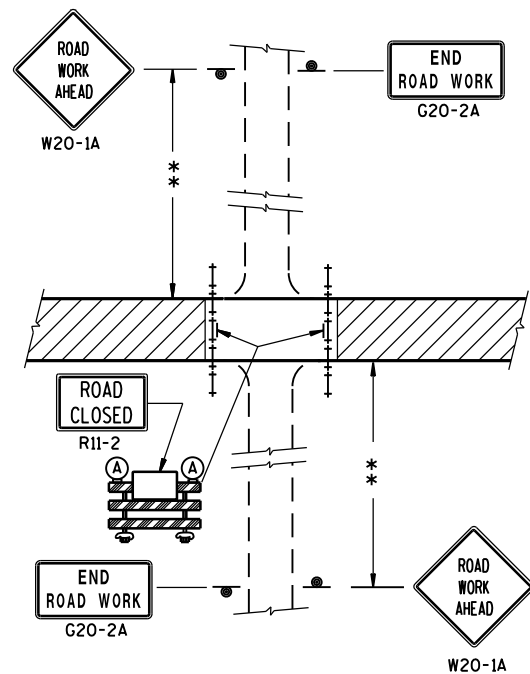
APPROVED
DATE Sept. 2015 /S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA



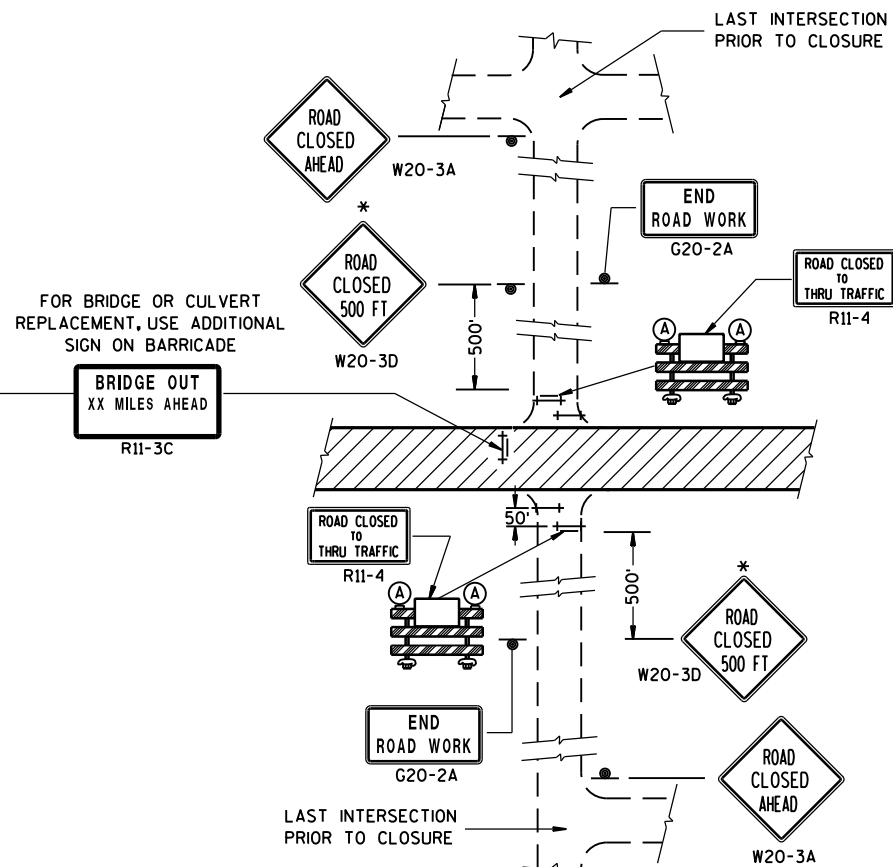
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30".

R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ⊢ TYPE III BARRICADE
- ⊢ TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- ▨ WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

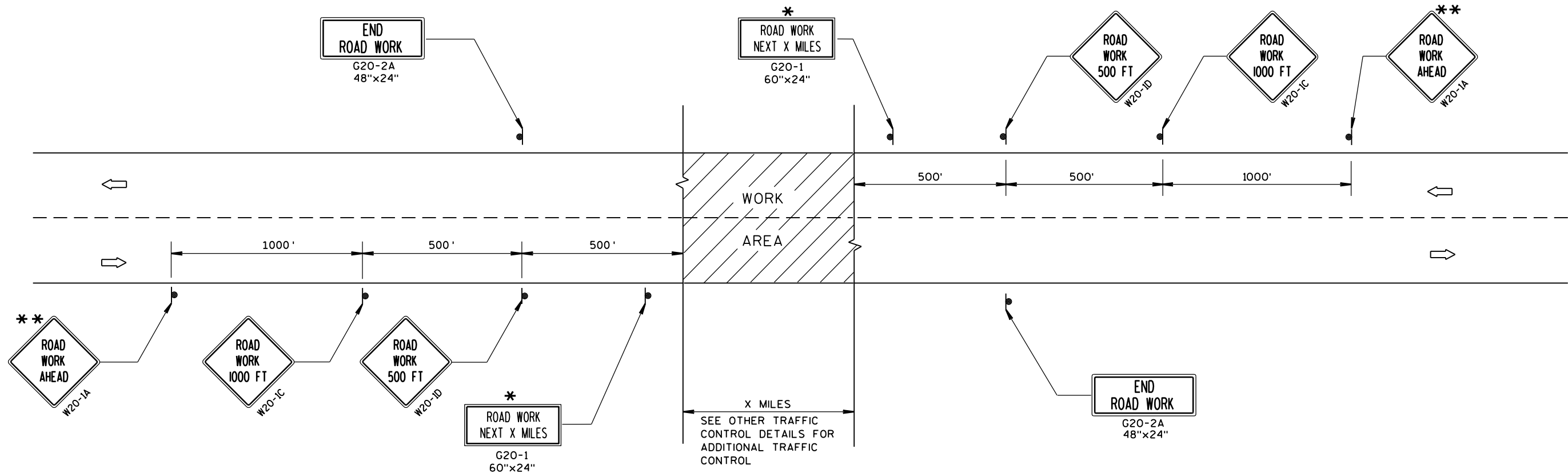
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENG 134

FHWA



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.

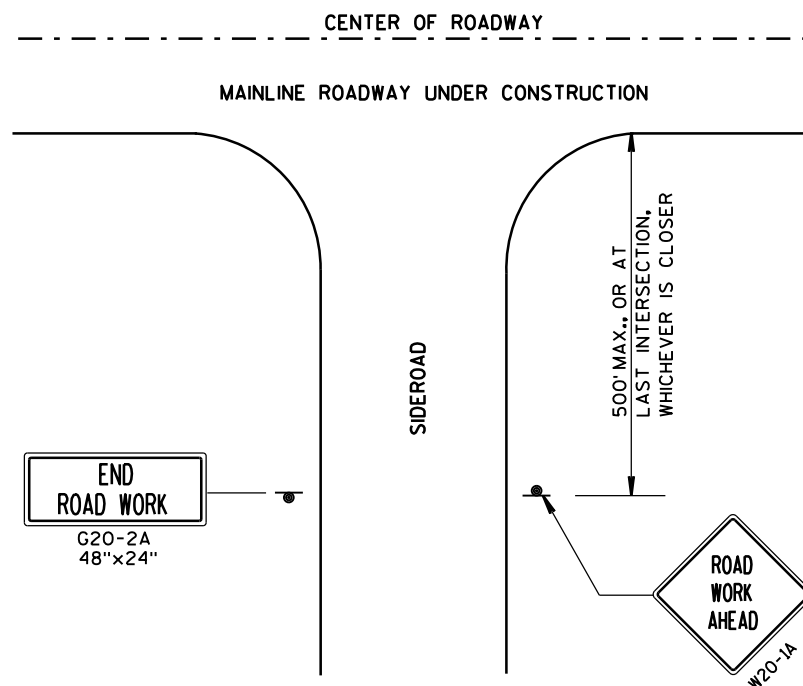
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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.

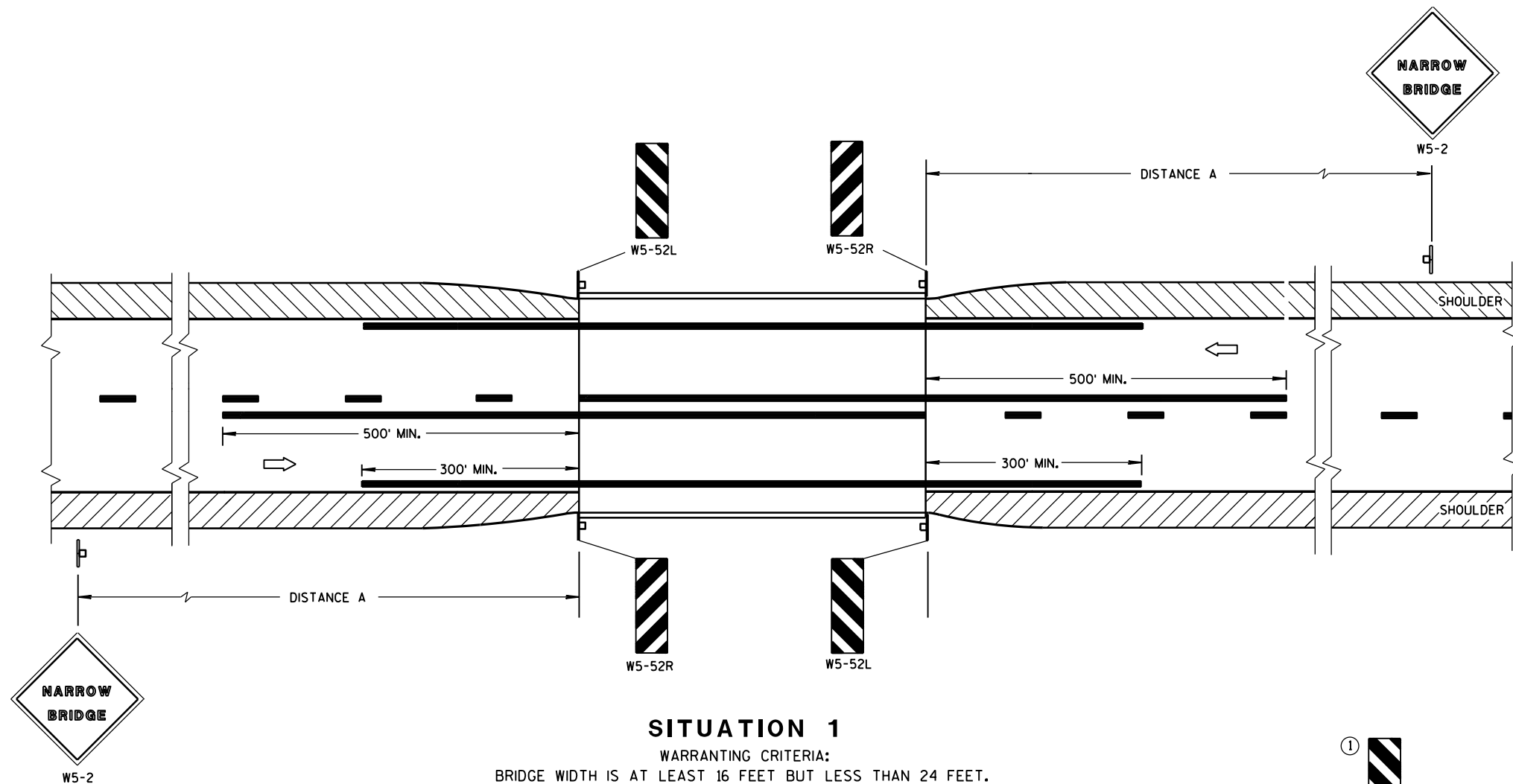
** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



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 Sept. 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENG 135
FHWA	



DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'

GENERAL NOTES

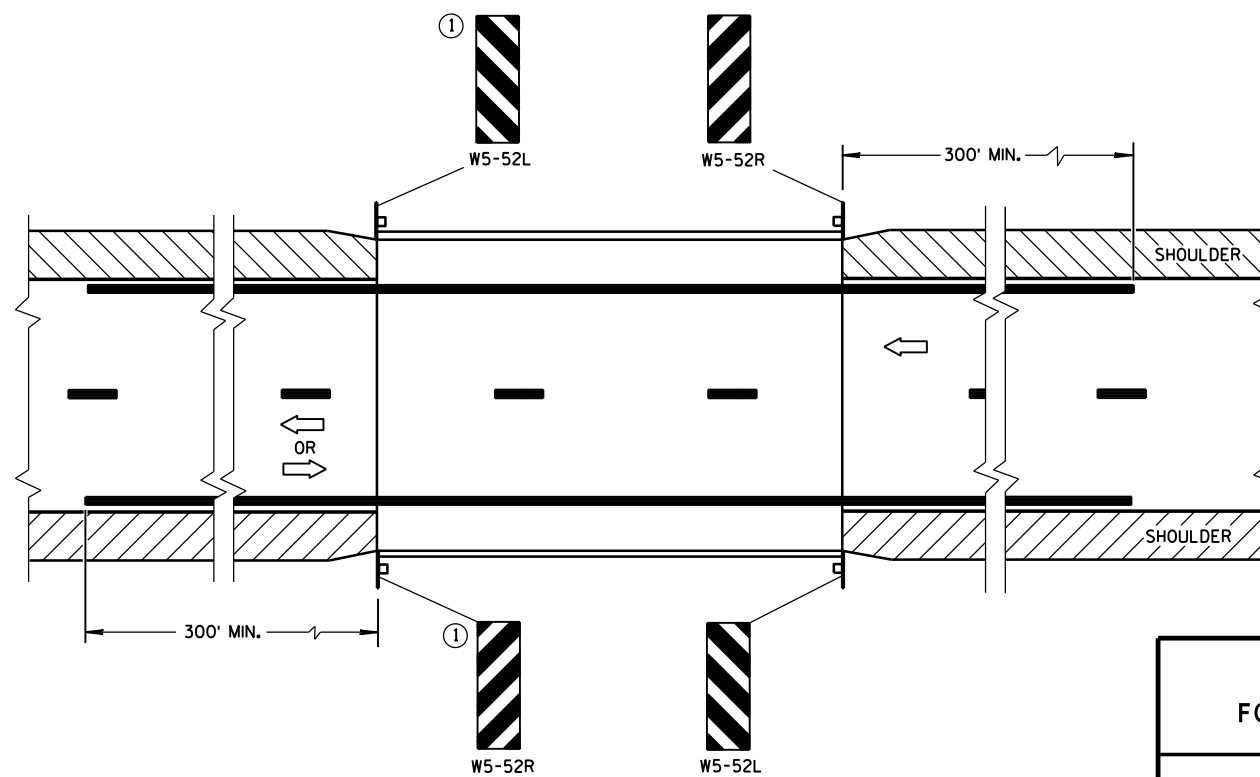
DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

① OMIT ON ONE-WAY TRAVELLED WAYS.

➡ DIRECTION OF TRAFFIC

SIGNING & MARKING
FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

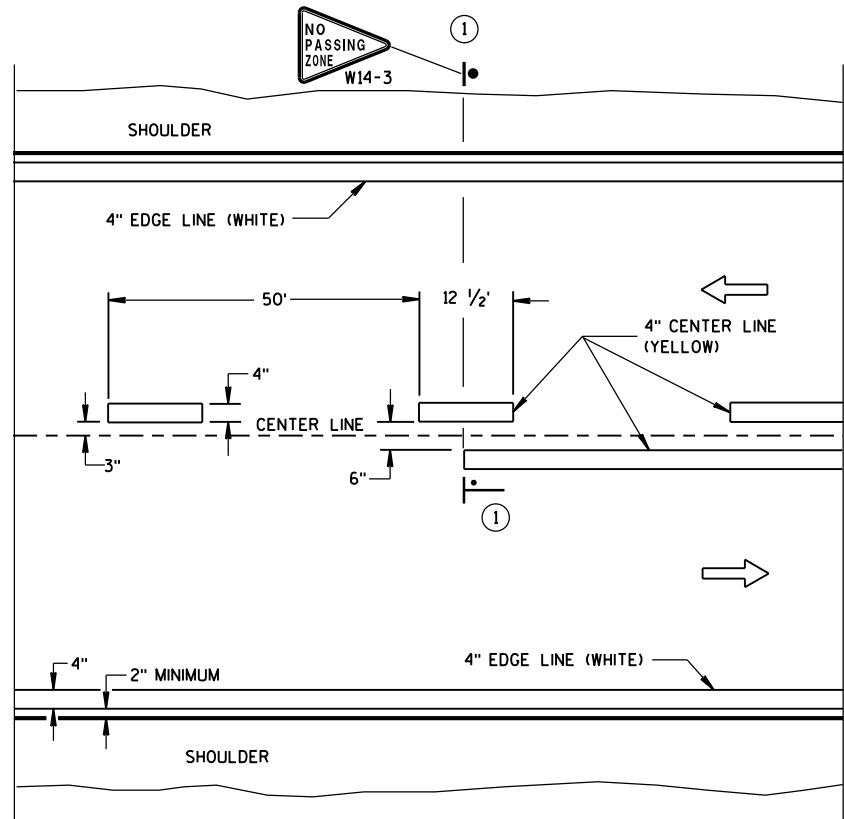
June 2017

DATE

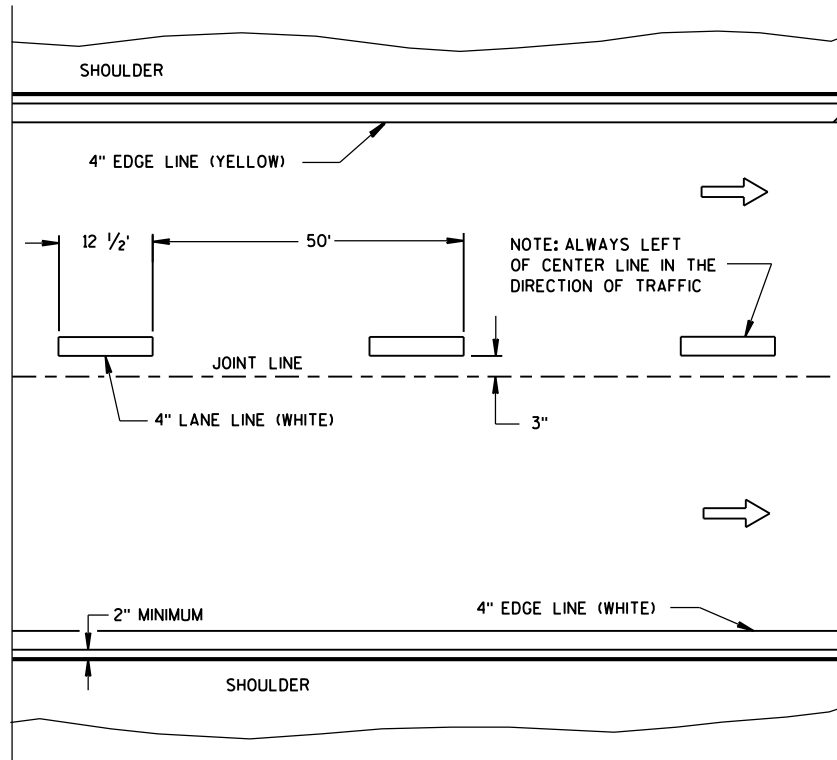
FHWA

/S/ Matthew R. Rauch
STATE SIGNING AND MAR 136

JEER

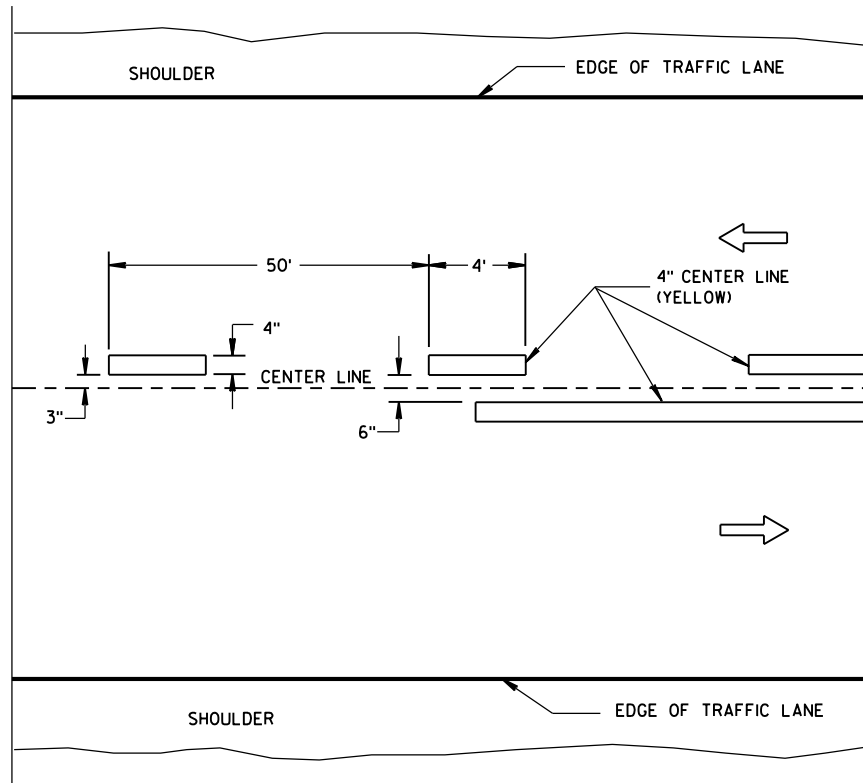


TWO WAY TRAFFIC

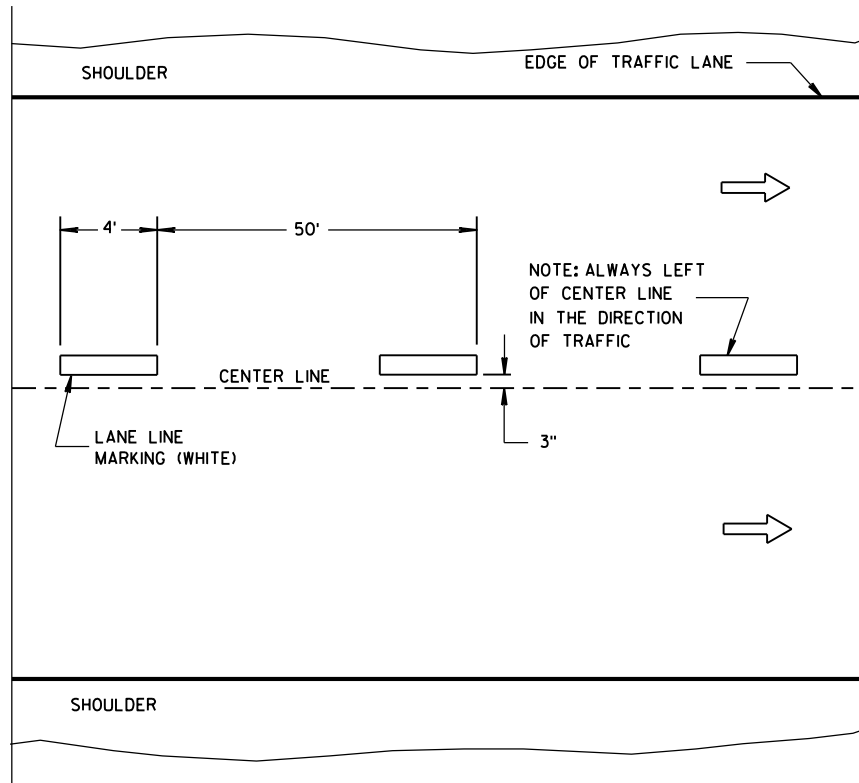


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

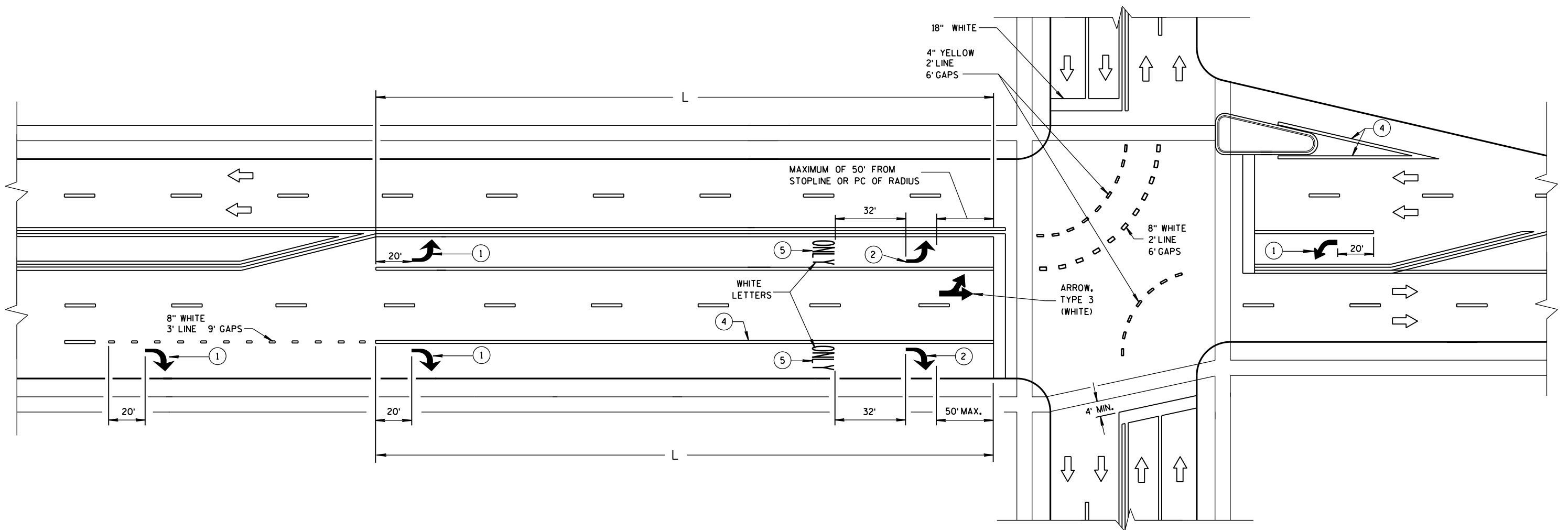
LEGEND

- ├── "T" MARKING
- POST MOUNTED SIGN

LONGITUDINAL MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MAP 137 ENGINEER
FHWA



GENERAL NOTES

- ① REQUIRED ARROW, TYPE 2 (WHITE).
- ② REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.
- ③ A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ④ 8" WHITE
- ⑤ REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

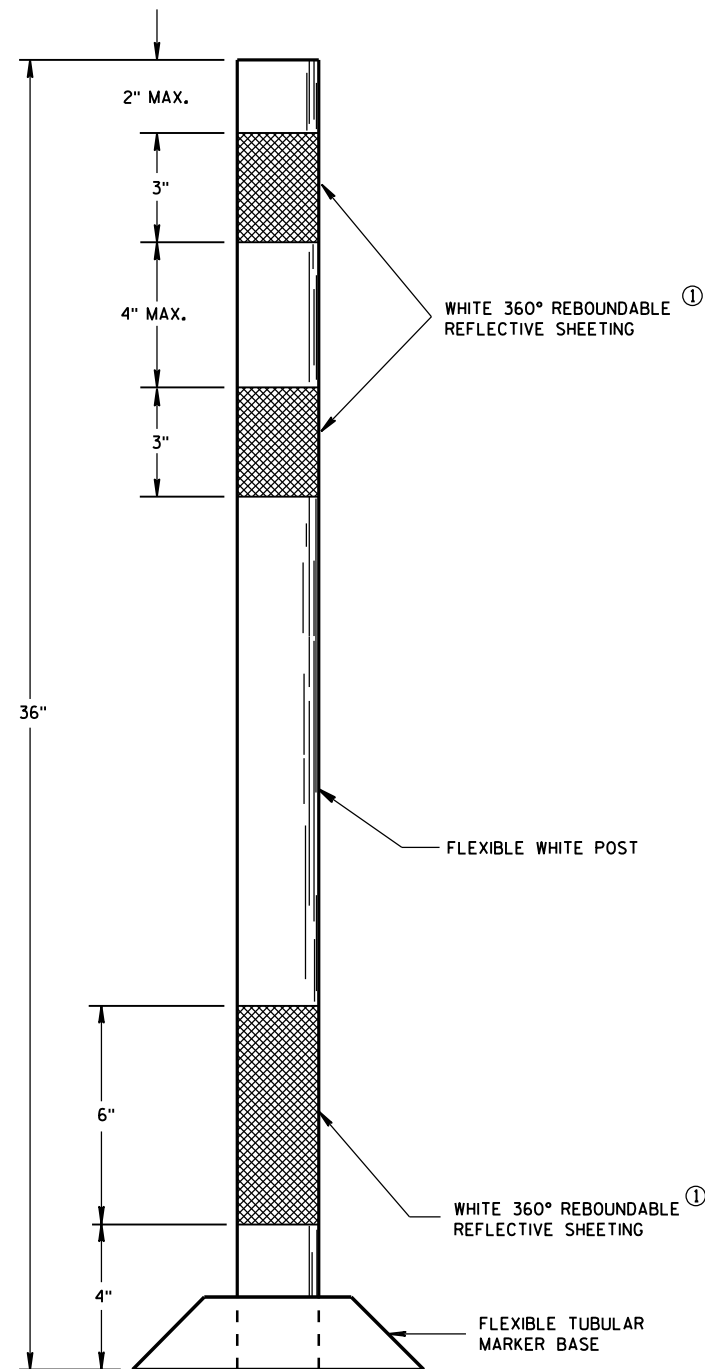
TWO WAY LEFT TURN LANE

NOTE:
ARROW SYMBOL (→)
SHOWS DIRECTION OF TRAVEL

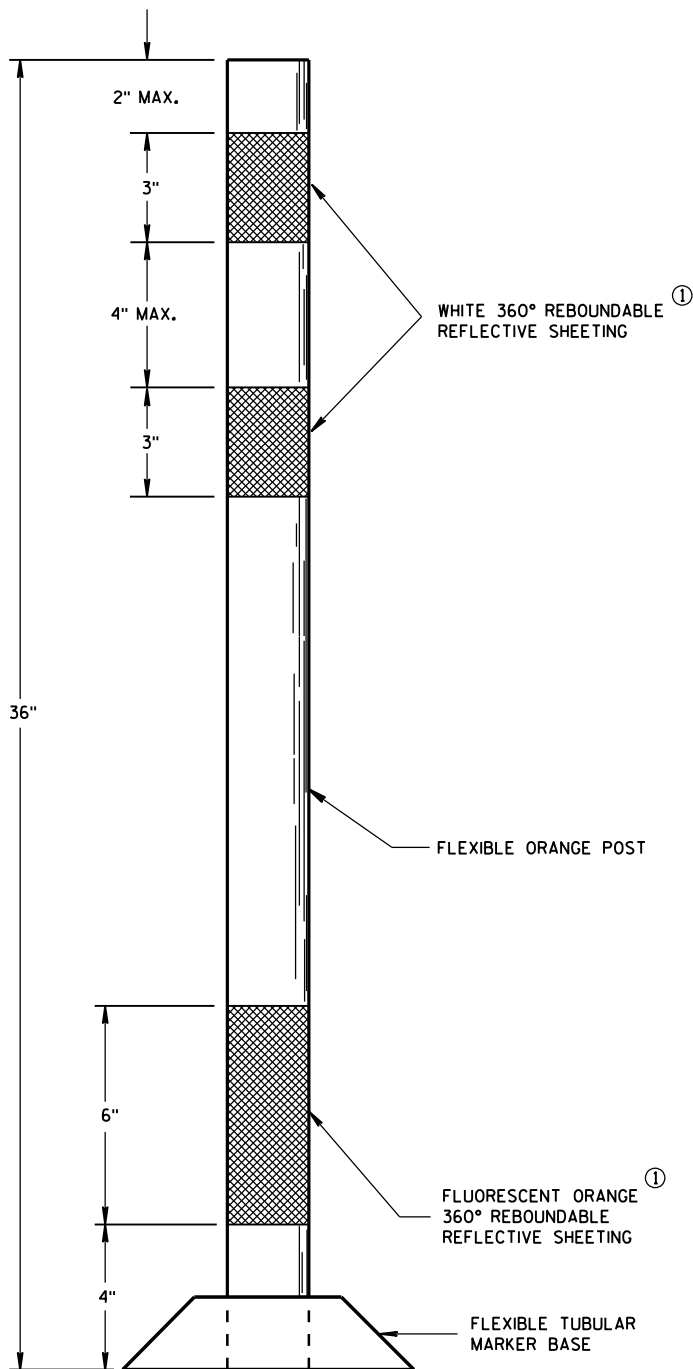
L = LENGTH OF TURN BAY

PAVEMENT MARKING
(TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 138



**FLEXIBLE
TUBULAR MARKER POST
PERMANENT CROSSOVER**



**FLEXIBLE
TUBULAR MARKER POST
WORK ZONE**

GENERAL NOTES

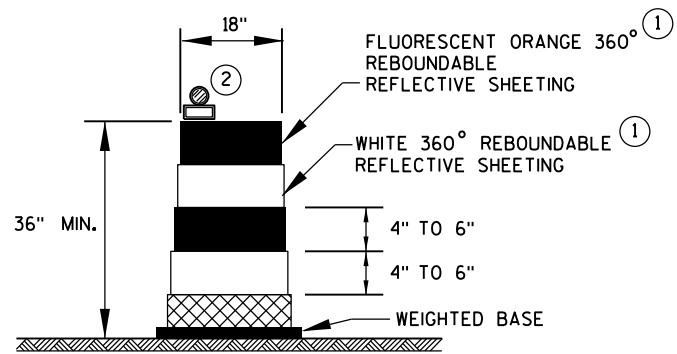
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

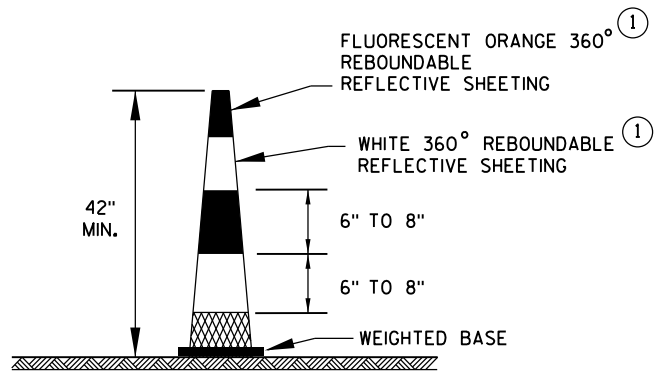
THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heldtke WORK ZONE ENGINEER 139
FHWA	



DRUM

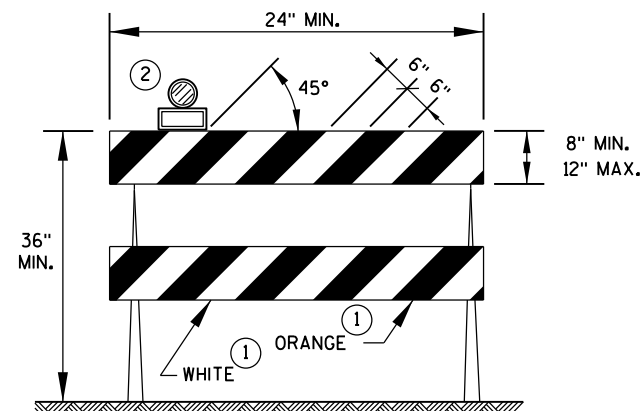


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

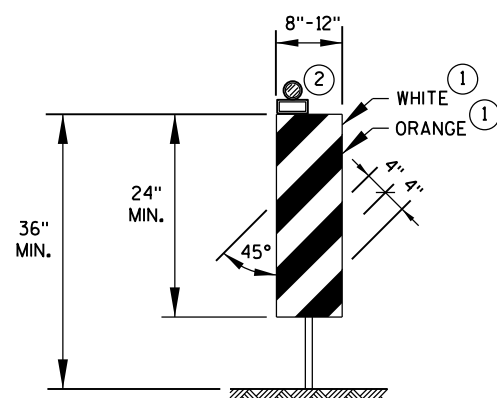
GENERAL NOTES

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



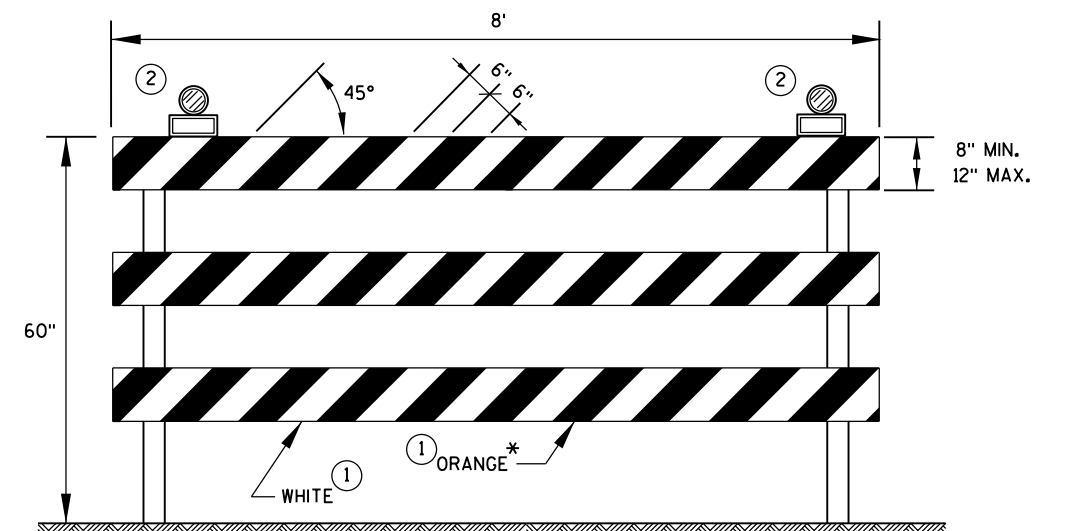
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED.
ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENG 140
FHWA	

LEGEND

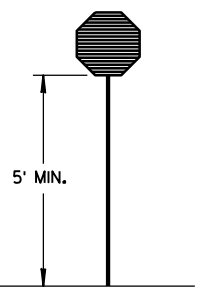
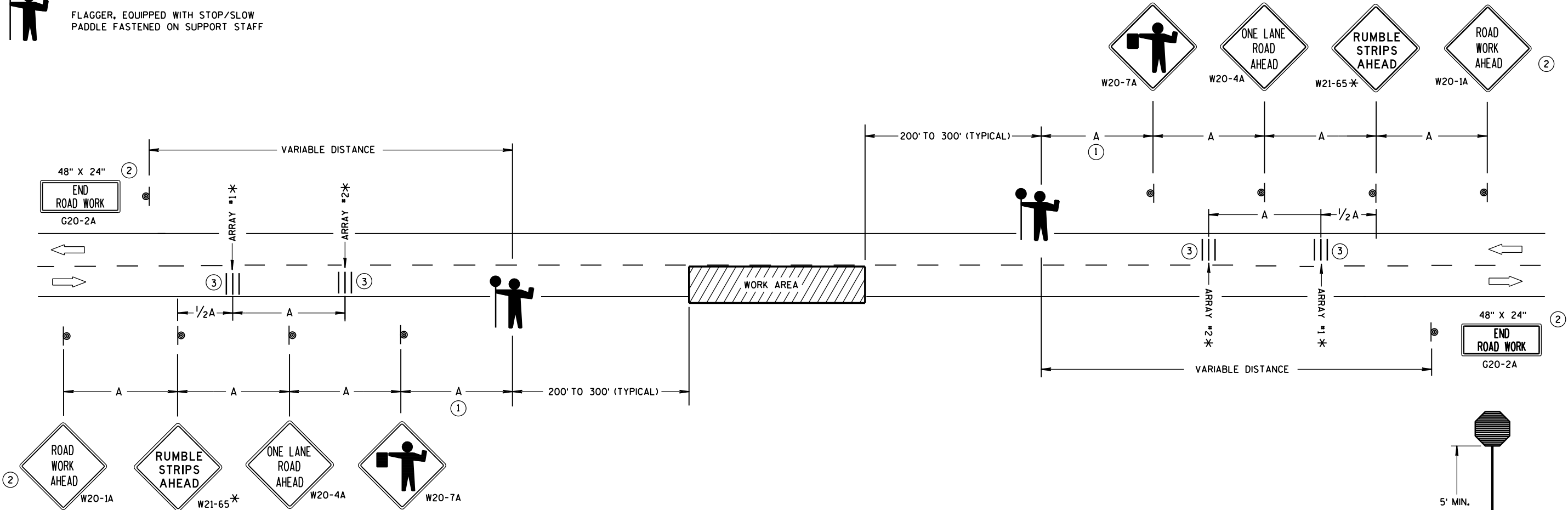
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.



STOP/SLOW PADDLE ON SUPPORT STAFF

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

"W0" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

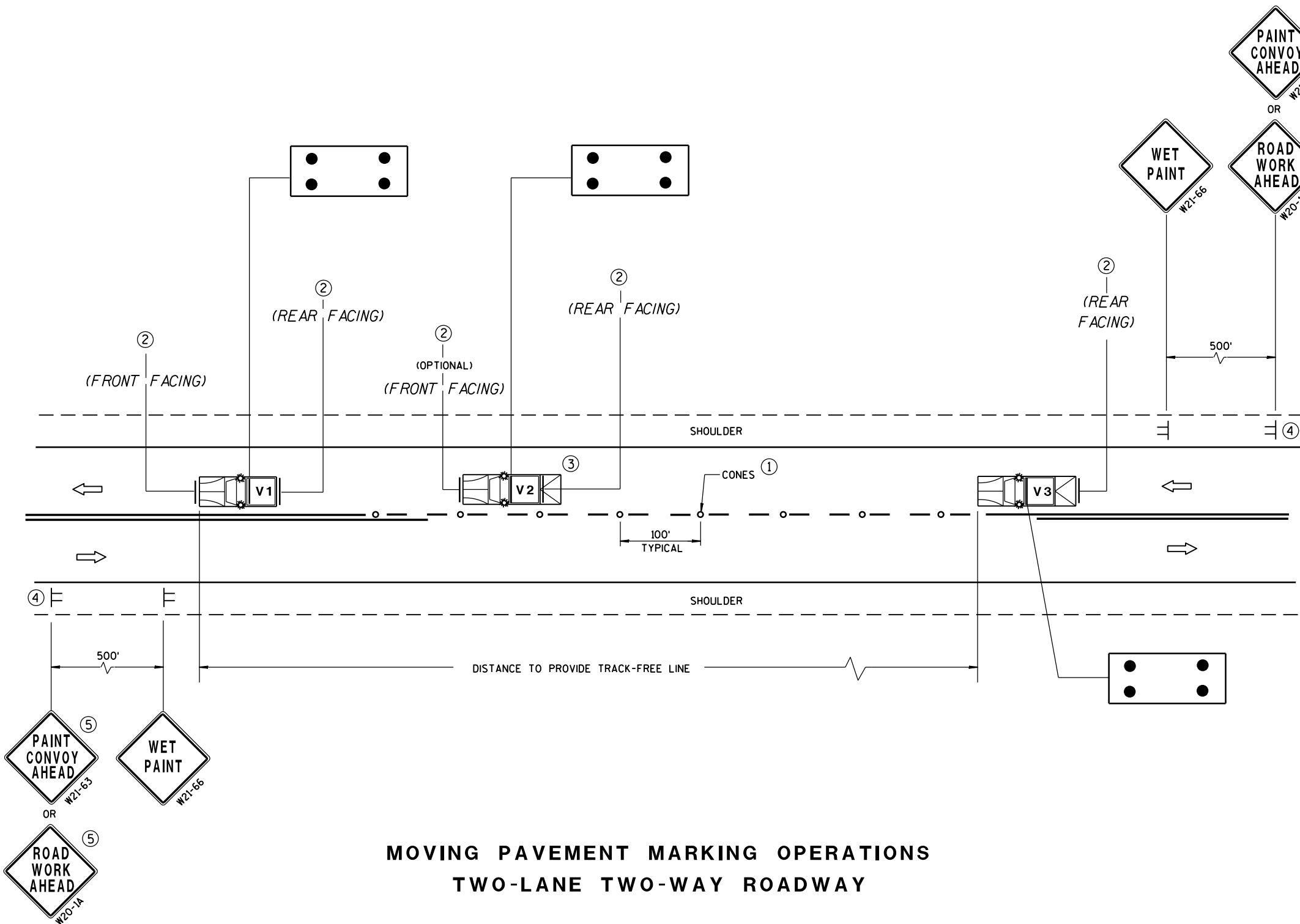
* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

- FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

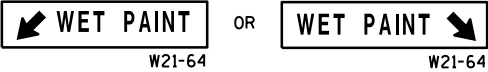
APPROVED
June 2017 /S/ Andrew Heldtke
DATE WORK ZONE ENG 141
FHWA



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

- ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.
- VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.
- IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.
- ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.
- DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.
- THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.
- WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.
- ① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.
- ② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.
- ③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.
- ④ SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.



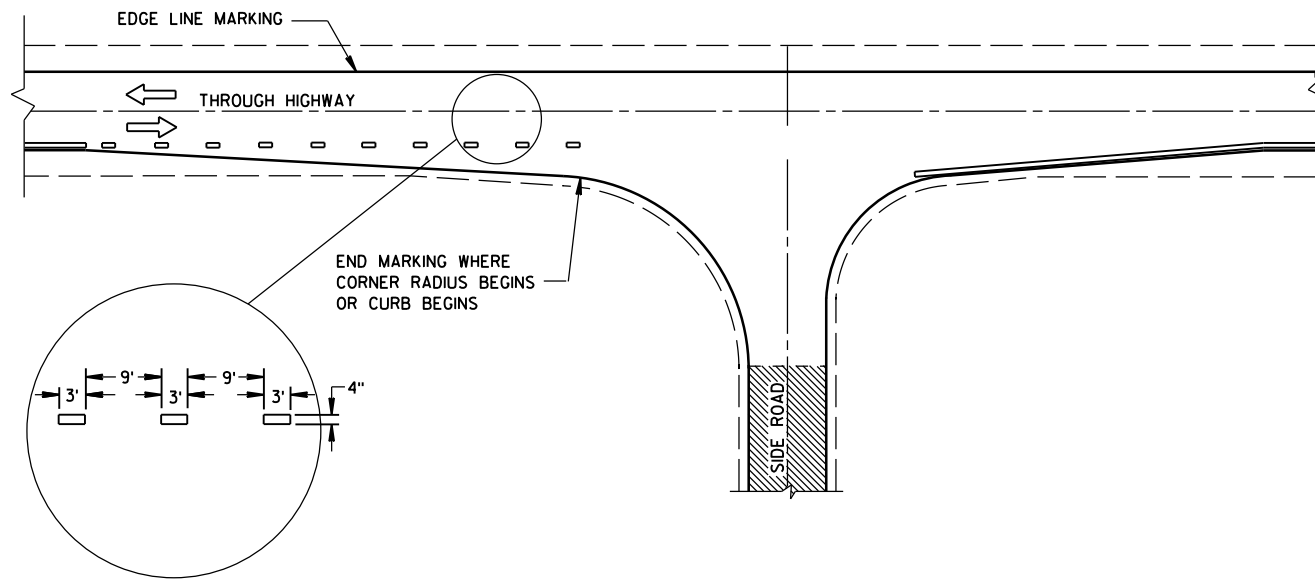
LEGEND

- V1 LEAD VEHICLE
- V2 SHADOW VEHICLE
- V3 TRAIL VEHICLE WITH TMA
- TMA TRUCK-MOUNTED ATTENUATOR
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- CONES
- FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING
OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2017 /S/ Andrew Heidtke
DATE WORK ZONE ENGR 142
FHWA



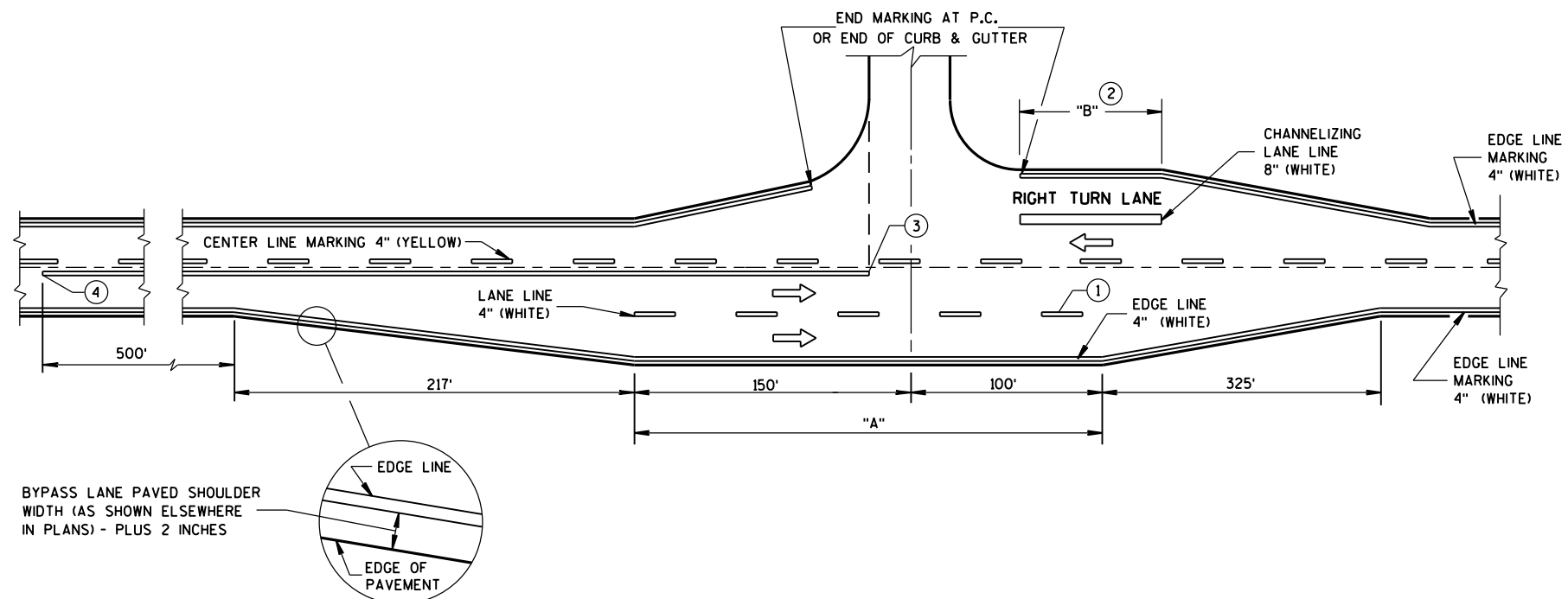
MINOR INTERSECTION

GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES 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 BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

**PAVEMENT MARKING
(INTERSECTIONS)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 143

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

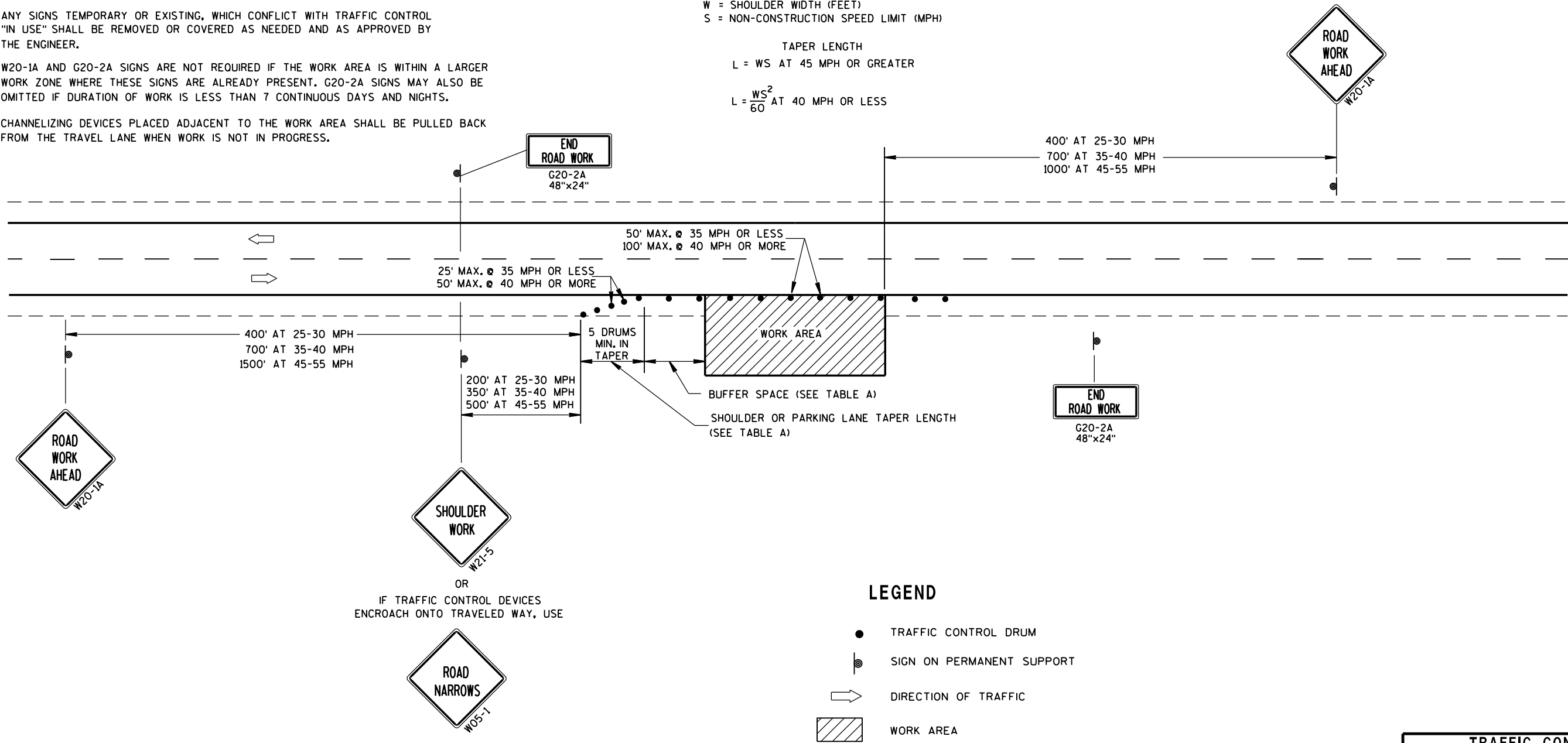
SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S \ W	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH
L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$

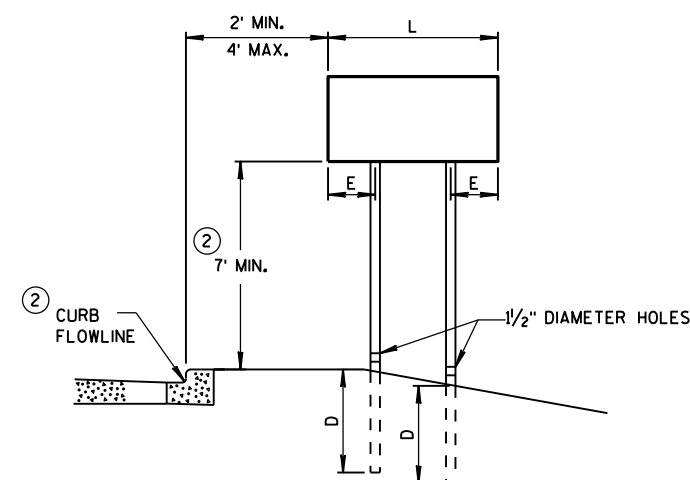


LEGEND

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED July 14, 2015 DATE	/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE SAFETY ENGINEER 144
FHWA	

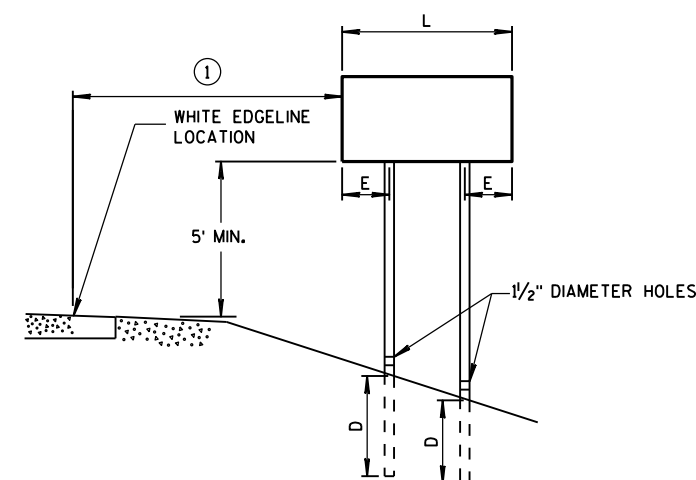


AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3



POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

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

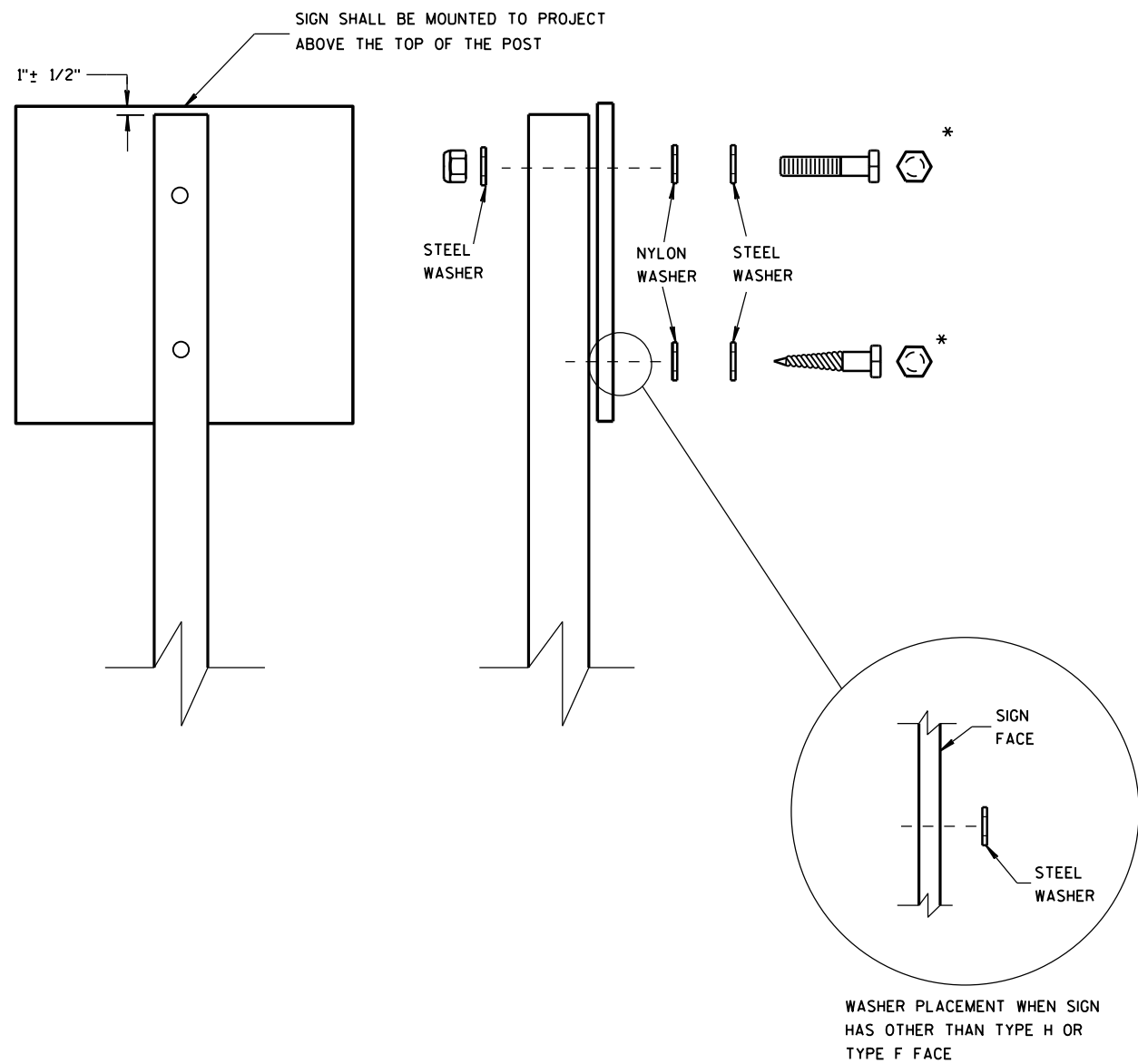


POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 145

- ① 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- ② THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- ③ FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

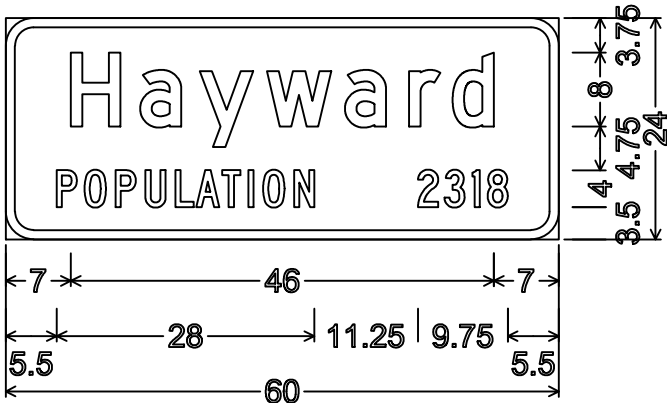
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" x 3"
 - MACHINE BOLTS - 5/16" x 6-1/2" OR 7" LENGTH W/ NUTS

- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" x 3-1/4" LENGTH W/ NUTS
 - RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

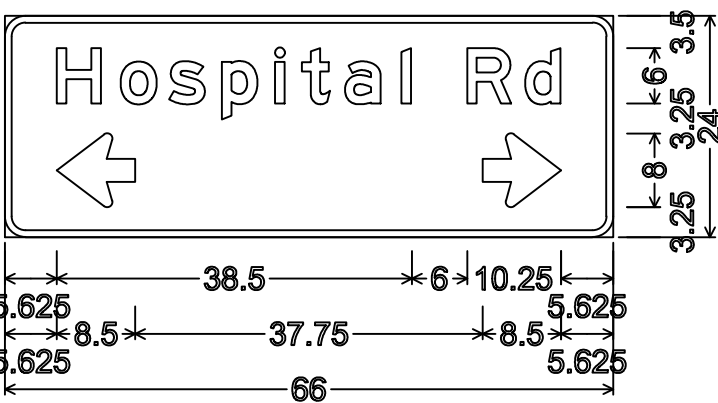
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. x 3/8" I.D. x 1/16" STEEL
 - 1-1/4" O.D. x 3/8" I.D. x .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

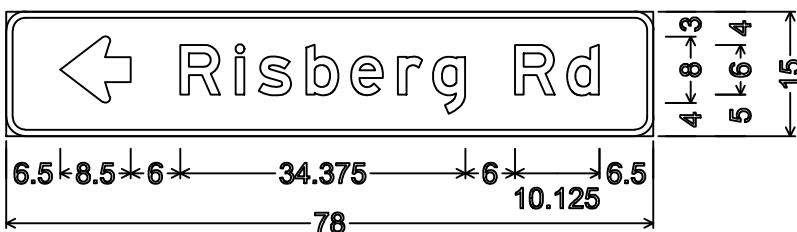
ATTACHMENT OF SIGNS TO POSTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heidtke WORK ZONE EN 146
FHWA	



3.000" Radius, 1.000" Border, White on Green;
"Hayward" D;
"POPULATION" C 125% spacing;
"2318" C;



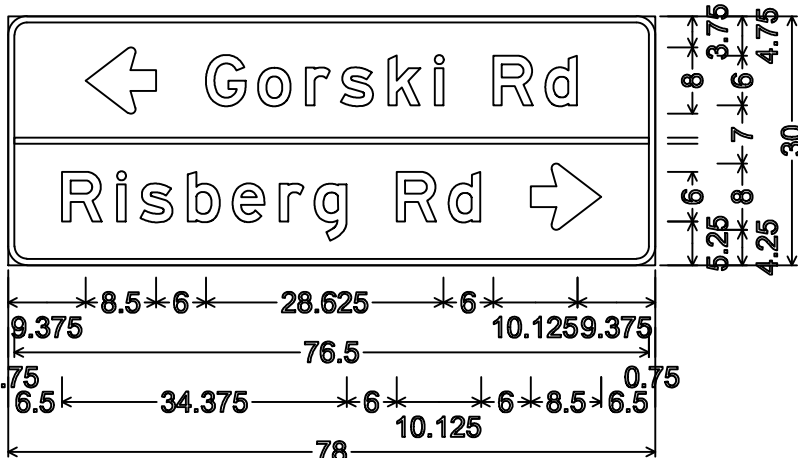
2.250" Radius, 0.750" Border, White on Green;
"Hospital" E; "Rd" E;
Standard Arrow Custom 8.500" X 8.000" 180°;
Standard Arrow Custom 8.500" X 8.000" 0°;



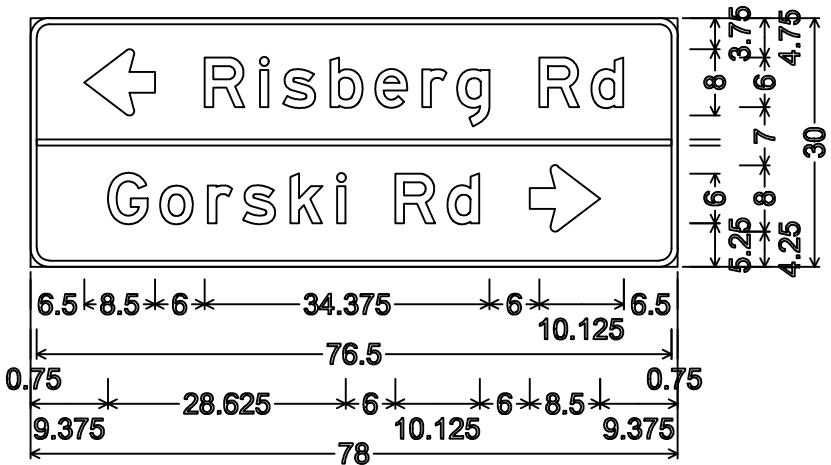
2.250" Radius, 0.750" Border, White on Green;
Standard Arrow Custom 8.500" X 8.000" 180°;
"Risberg" E; "Rd" E;



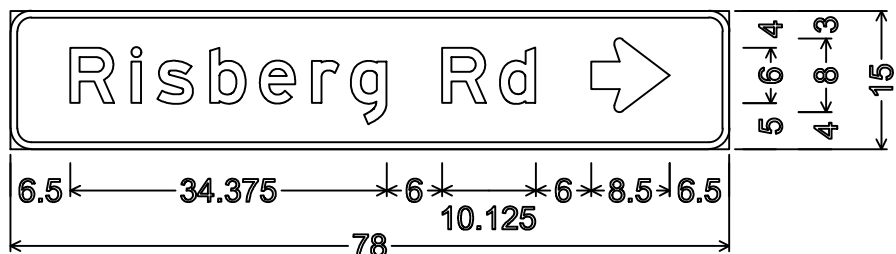
2.250" Radius, 0.750" Border, White on Green;
Standard Arrow Custom 8.500" X 8.000" 180°;
"Gorski" E; "Rd" E;



2.250" Radius, 0.750" Border, White on Green;
Standard Arrow Custom 8.500" X 8.000" 180°;
"Gorski" E; "Rd" E; "Risberg" E; "Rd" E;
Standard Arrow Custom 8.500" X 8.000" 0°;



2.250" Radius, 0.750" Border, White on Green;
Standard Arrow Custom 8.500" X 8.000" 180°;
"Risberg" E; "Rd" E; "Gorski" E; "Rd" E;
Standard Arrow Custom 8.500" X 8.000" 0°;



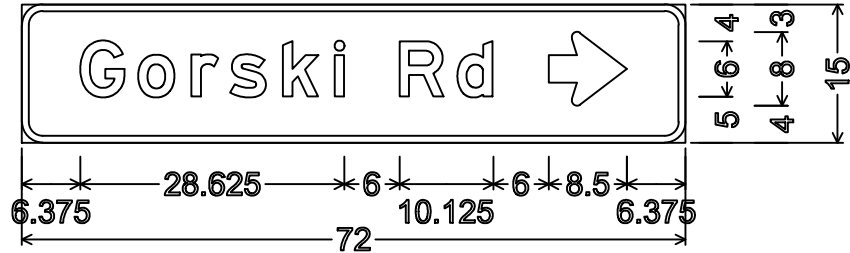
2.250" Radius, 0.750" Border, White on Green;
"Risberg" E; "Rd" E;
Standard Arrow Custom 8.500" X 8.000" 0°;

NOTES

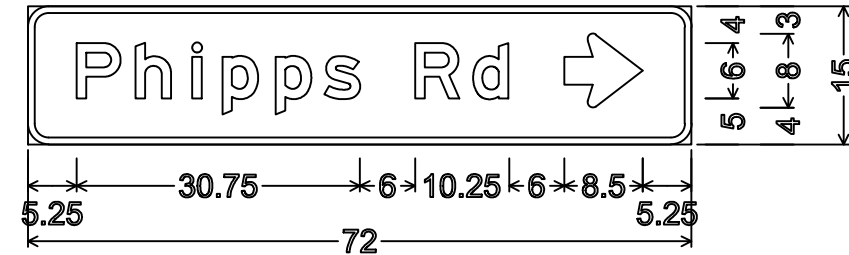
1. All SignsType II - Type H Reflective
2. Color:
Background - GREEN
Message - WHITE
3. Message Series - E except as Shown

7

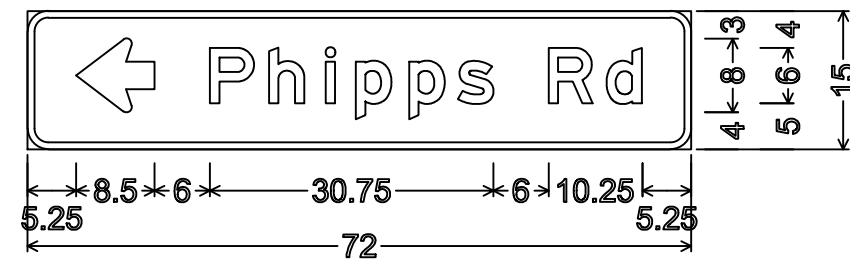
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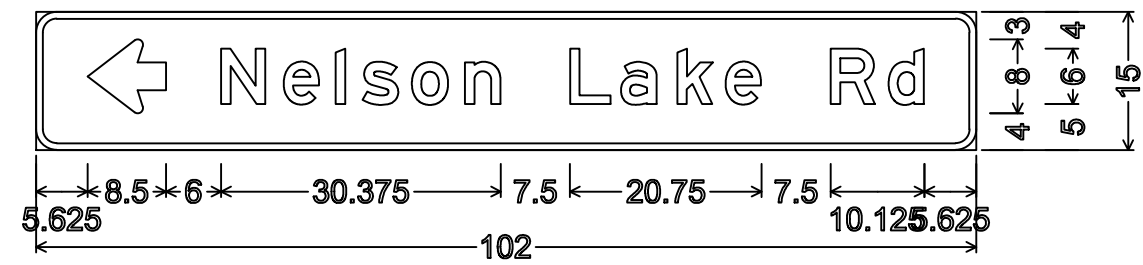
2.250" Radius, 0.750" Border, White on Green;
"Gorski" E; "Rd" E;
Standard Arrow Custom 8.500" X 8.000" 0°;



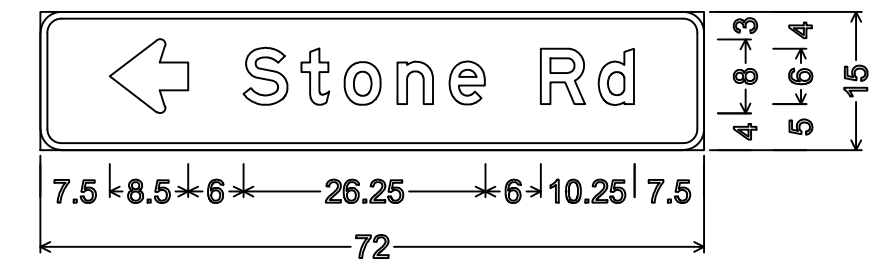
2.250" Radius, 0.750" Border, White on Green;
"Phipps" E; "Rd" E;
Standard Arrow Custom 8.500" X 8.000" 0°;



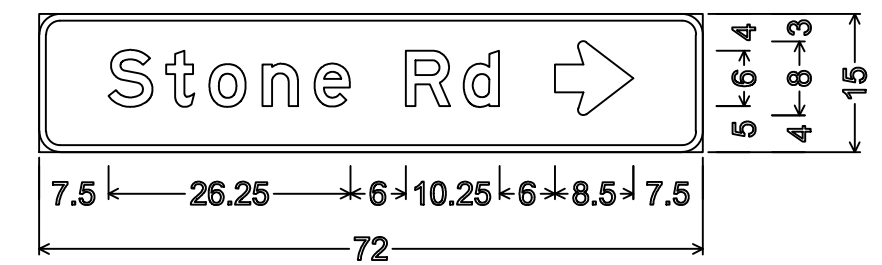
2.250" Radius, 0.750" Border, White on Green;
Standard Arrow Custom 8.500" X 8.000" 180°;
"Phipps" E; "Rd" E;



2.250" Radius, 0.750" Border, White on Green;
Standard Arrow Custom 8.500" X 8.000" 180°; "Nelson" E;
"Lake" E; "Rd" E;



2.250" Radius, 0.750" Border, White on Green;
Standard Arrow Custom 8.500" X 8.000" 180°;
"Stone" E; "Rd" E;



2.250" Radius, 0.750" Border, White on Green;
"Stone" E; "Rd" E;
Standard Arrow Custom 8.500" X 8.000" 0°;

NOTES

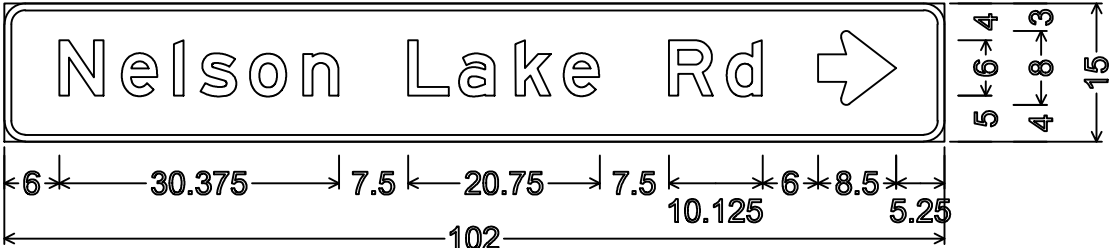
1. All SignsType II - Type H Reflective
2. Color:
Background - GREEN
Message - WHITE
3. Message Series - E

7

7

NOTES

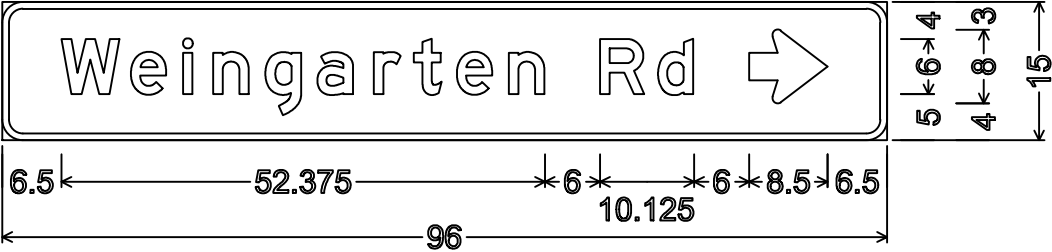
- 1. All SignsType II - Type H Reflective
- 2. Color:
 - Background - GREEN
 - Message - WHITE
- 3. Message Series - E



2.250" Radius, 0.750" Border, White on Green;
"Nelson" E; "Lake" E; "Rd" E;
Standard Arrow Custom 8.500" X 8.000" 0°;



2.250" Radius, 0.750" Border, White on Green;
Standard Arrow Custom 8.500" X 8.000" 180°;
"Weingarten" E; "Rd" E;

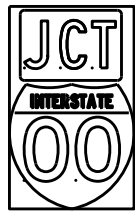


2.250" Radius, 0.750" Border, White on Green;
"Weingarten" E; "Rd" E;
Standard Arrow Custom 8.500" X 8.000" 0°;

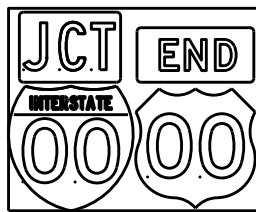
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7

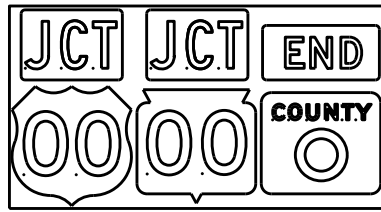
TYPICAL ASSEMBLIES



J1-1



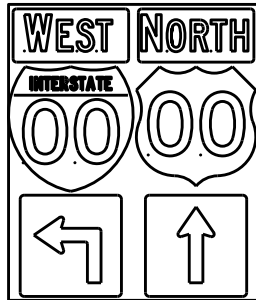
J1-2



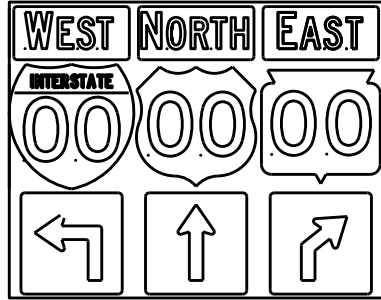
J1-3



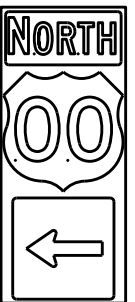
J2-1



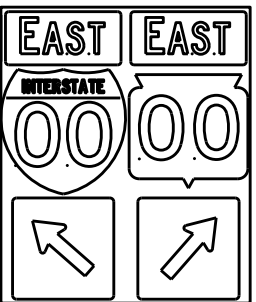
J2-2



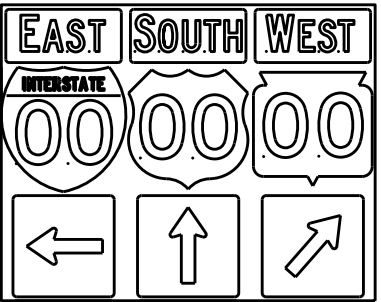
J2-3



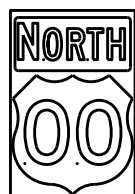
J3-1



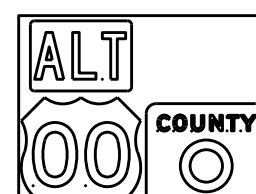
J3-2



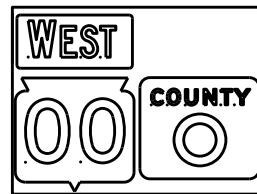
J3-3



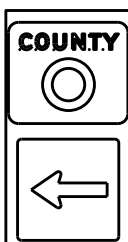
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

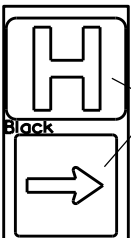


J22-1



JV

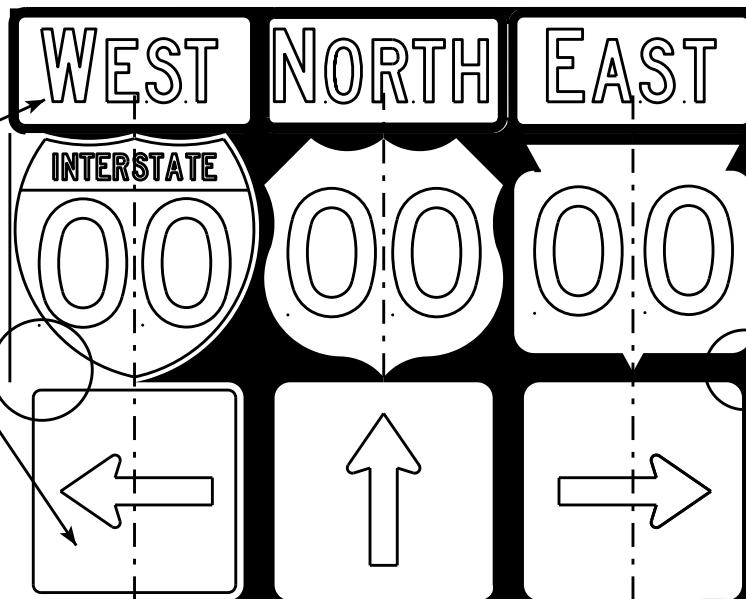
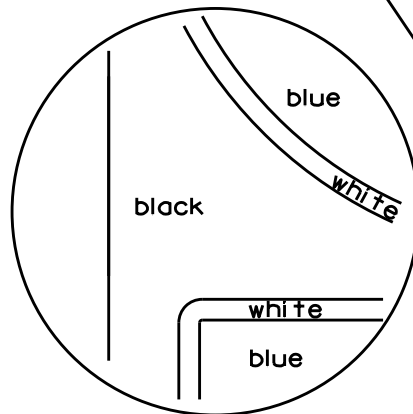
(Typical Vertical J-Assembly
See Note 10 and 11)



JH-1

Blue Background

[blue background
with interstate]



[black background]

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

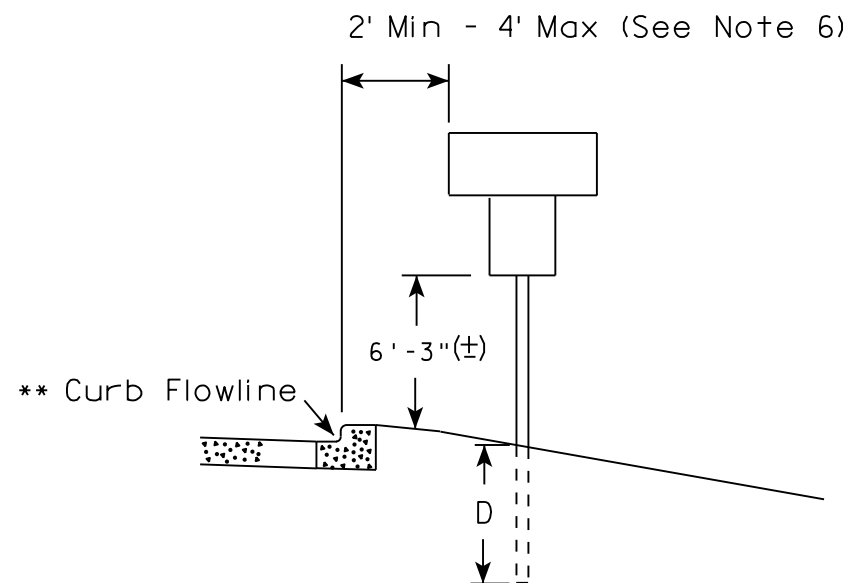
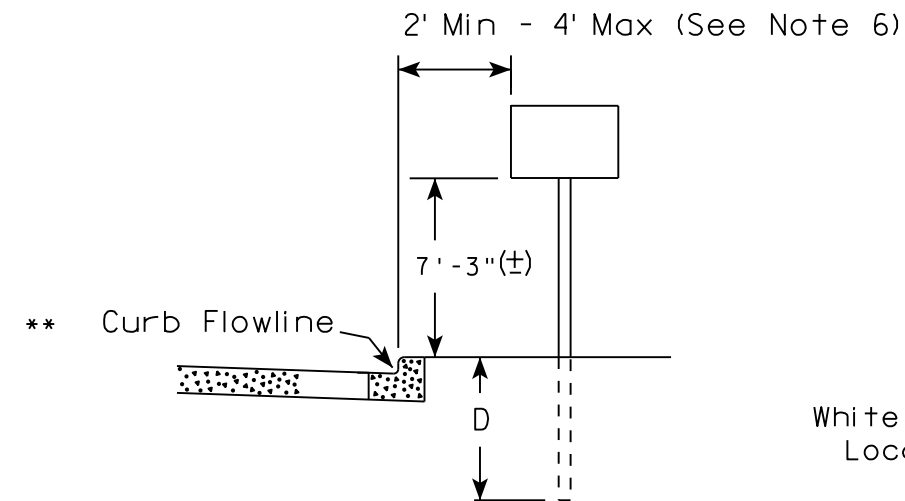
DATE 2/06/14 PL 150 A2-1S.8

SHEET NO: E

NOTES

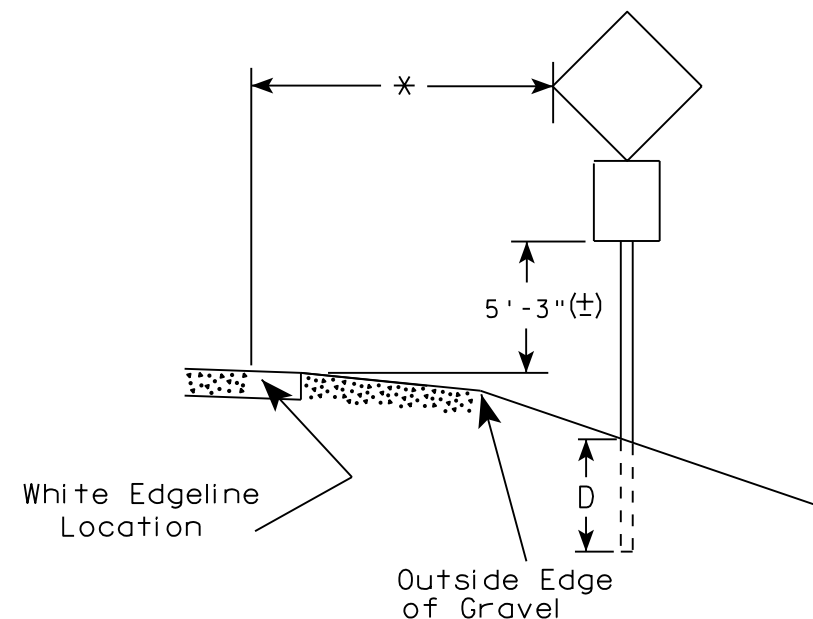
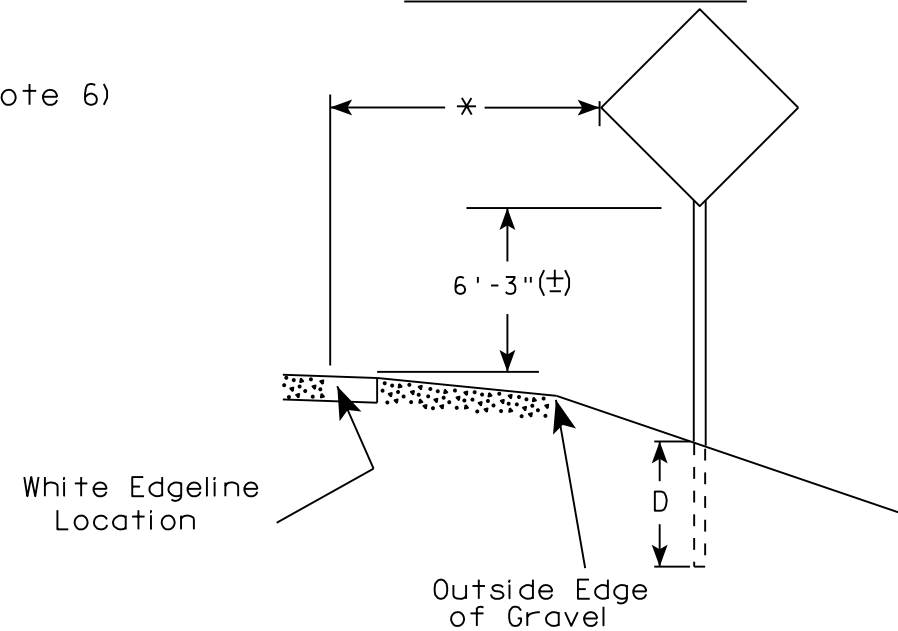
1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Black Non-reflective
Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. 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 inches (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.

URBAN AREA



✱✱ 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.

RURAL AREA (See Note 2)



* 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.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

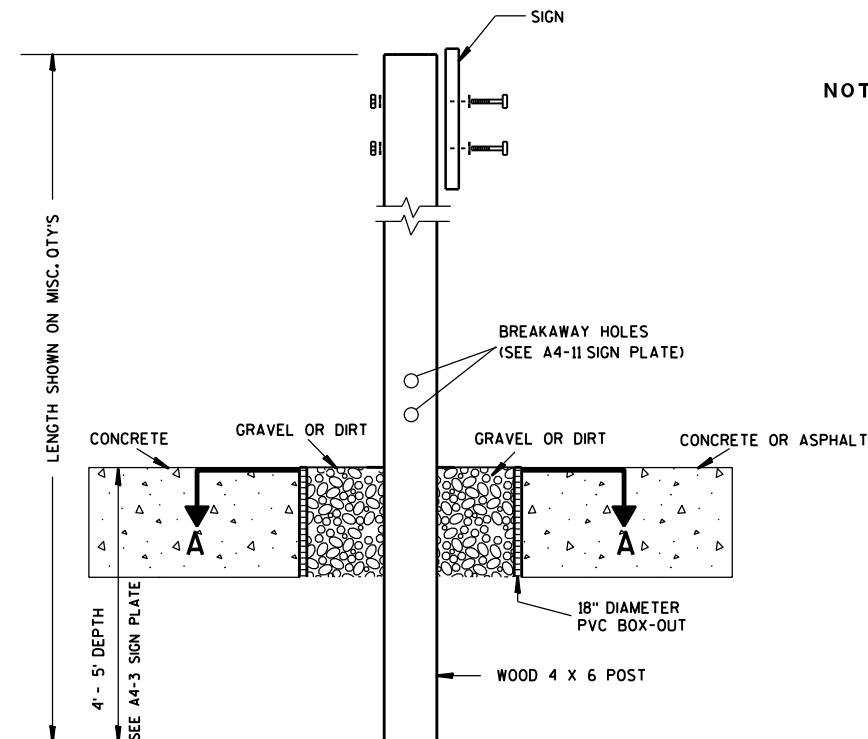
1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directed 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" (±).

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

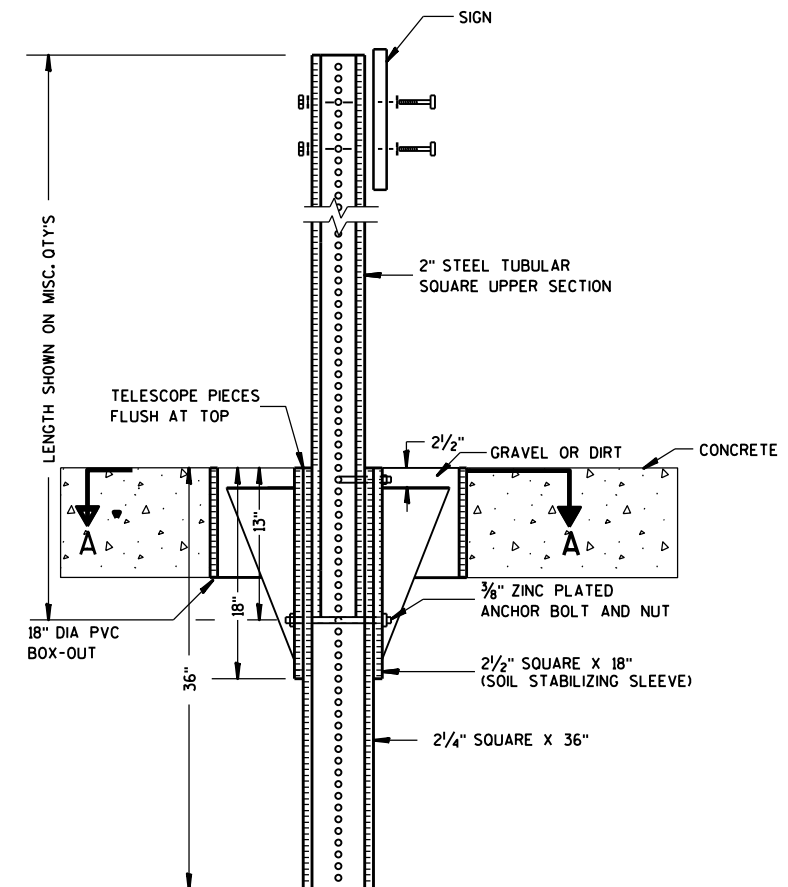
DATE 8/21/17 PLATE NO. A4-3.21



ELEVATION VIEW

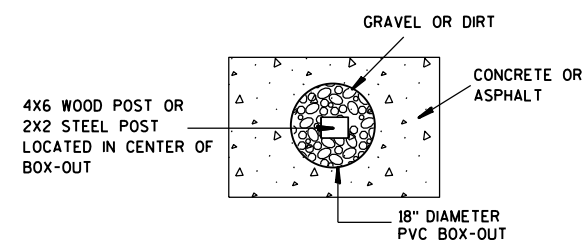
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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 PLAT 152 A4-3B.1

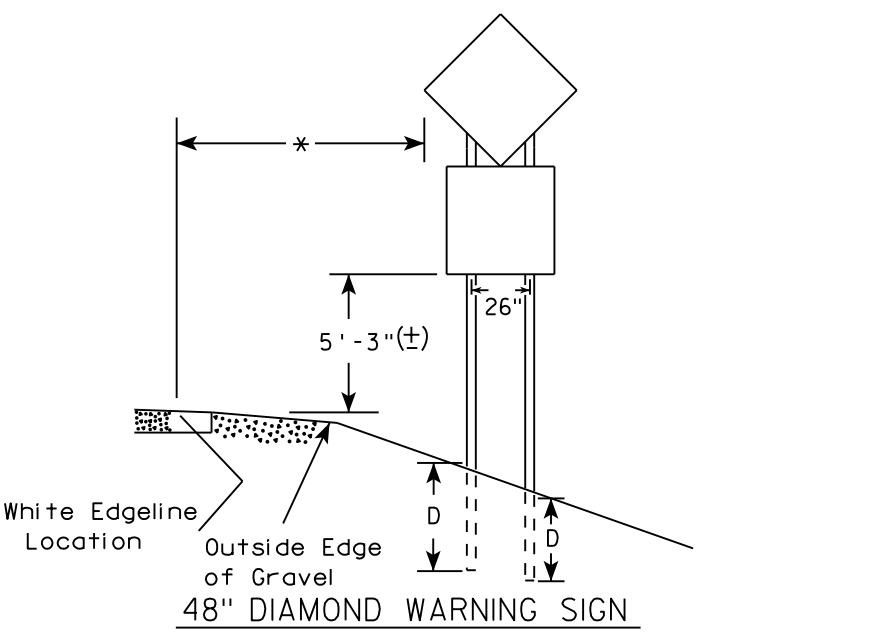
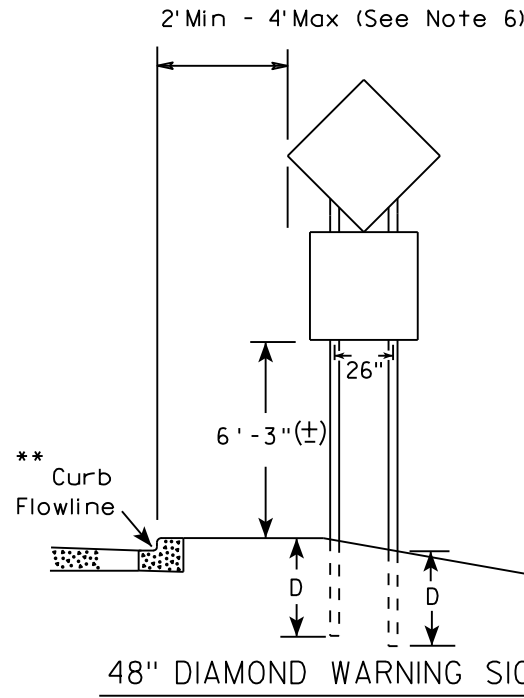
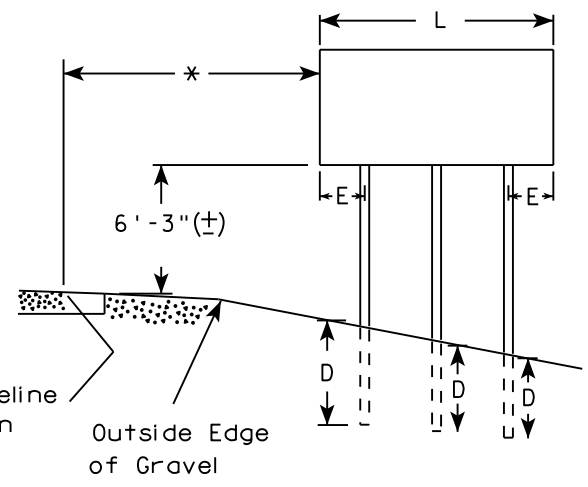
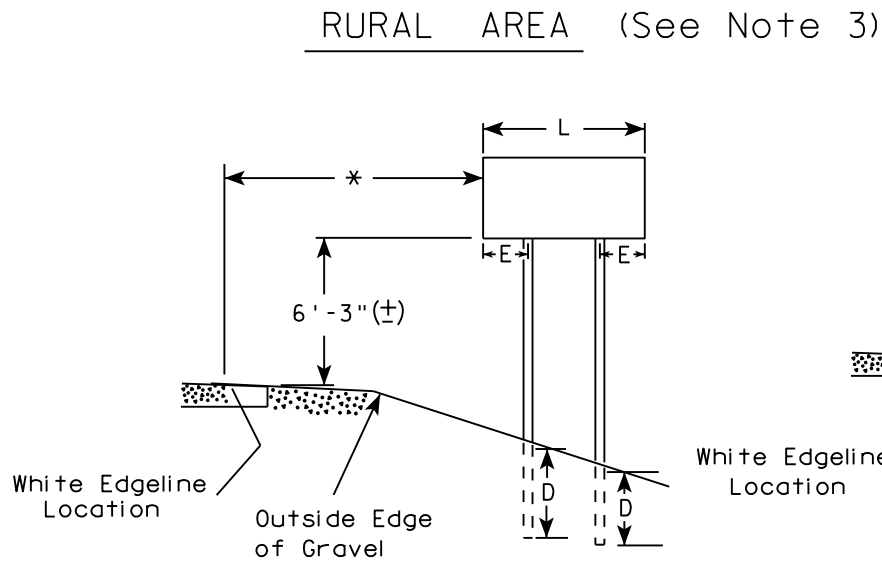
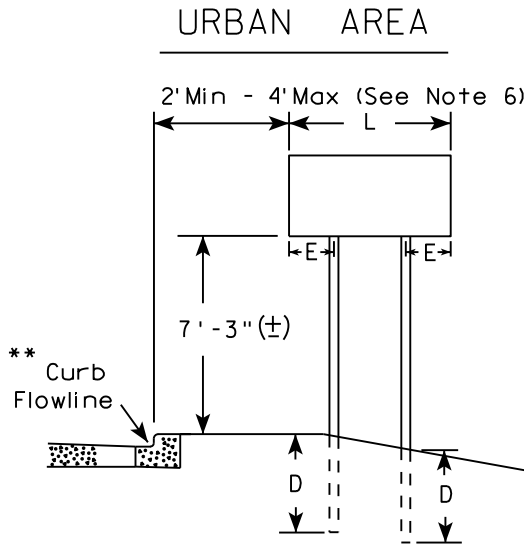
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



- GENERAL NOTES
1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
 2. See tables below for required number of posts.
 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
 4. The (±) tolerance for mounting height is 3 inches.
 5. J-Assemblies are considered to be one sign for mounting height.
 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
 7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

POST EMBEDMENT DEPTH

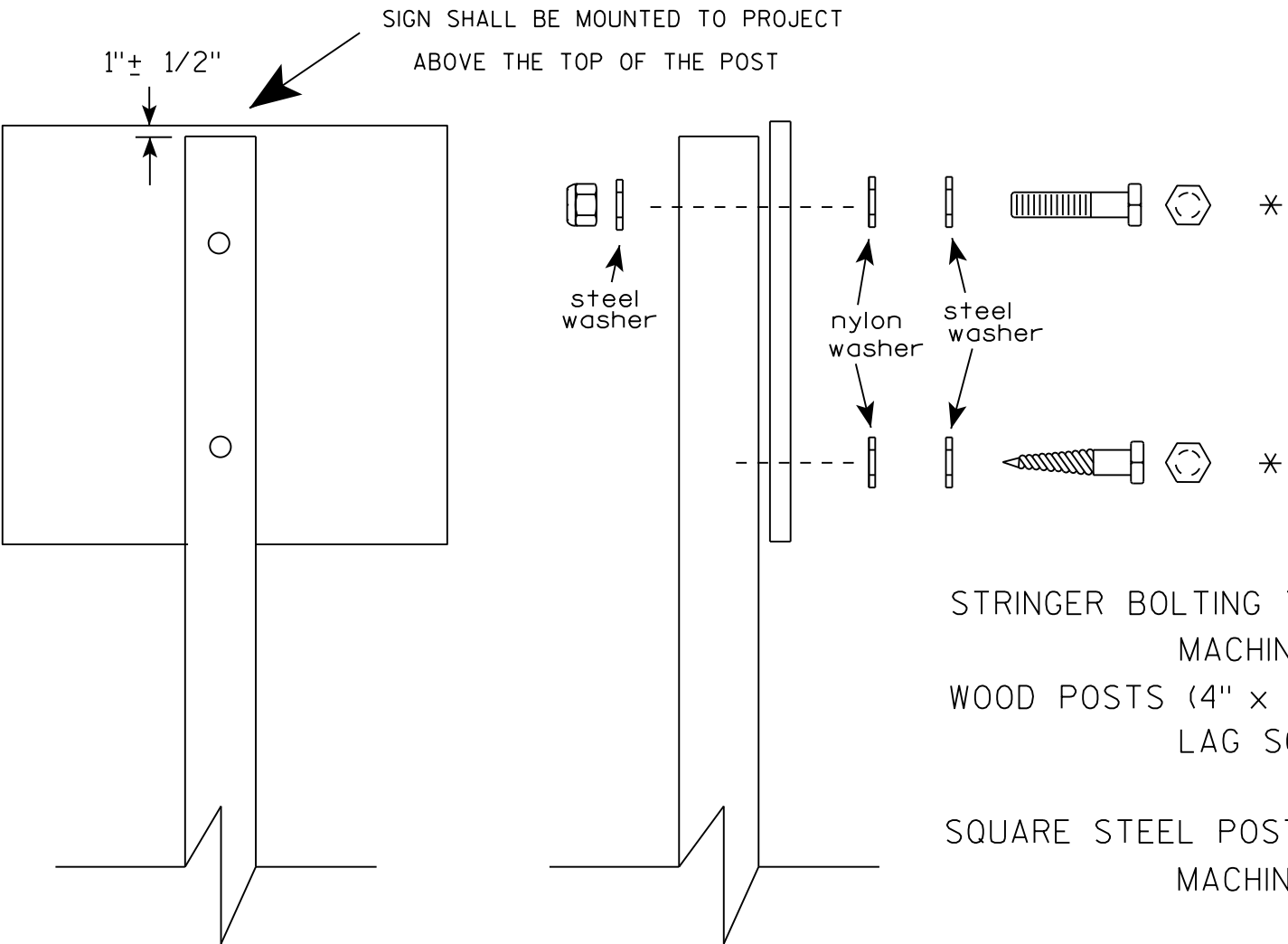
Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

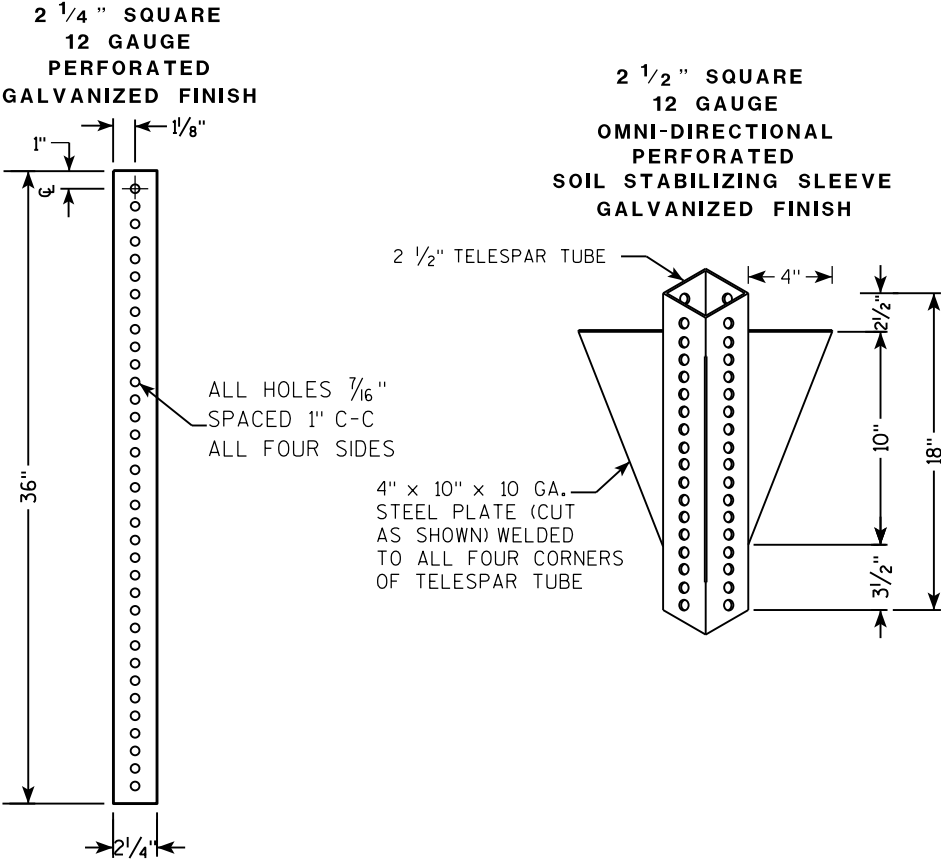
Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
 - 3/8" X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
 - 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
- O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
 - 1-1/4" O.D. X 3/8" I.D. X .080 NYLON

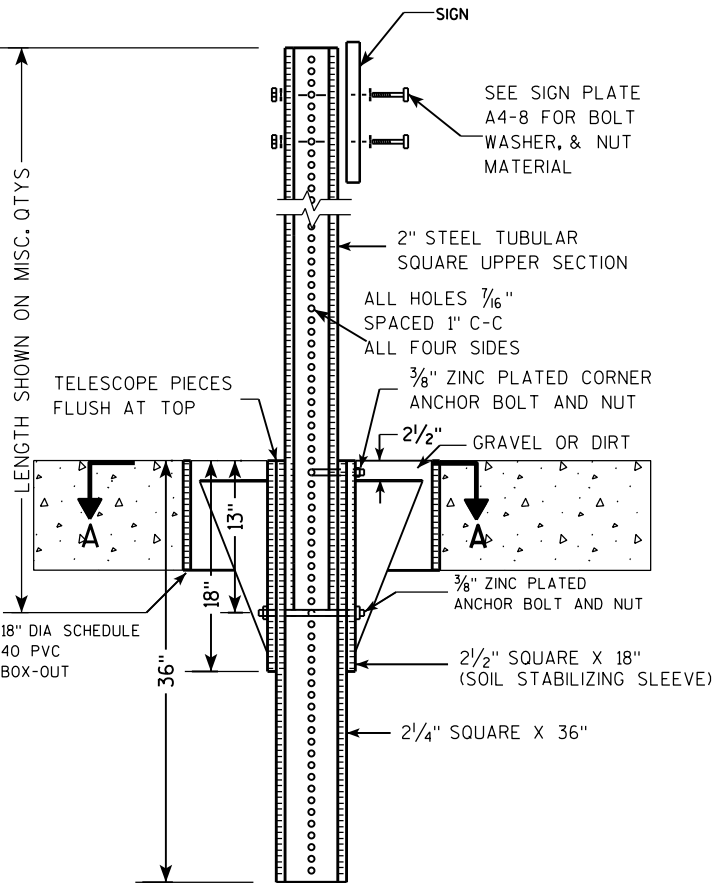
* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 8/11/16	PLATE NO. A4-8.8 154

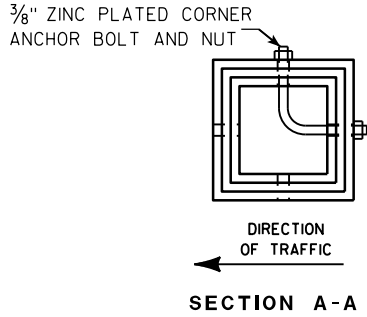
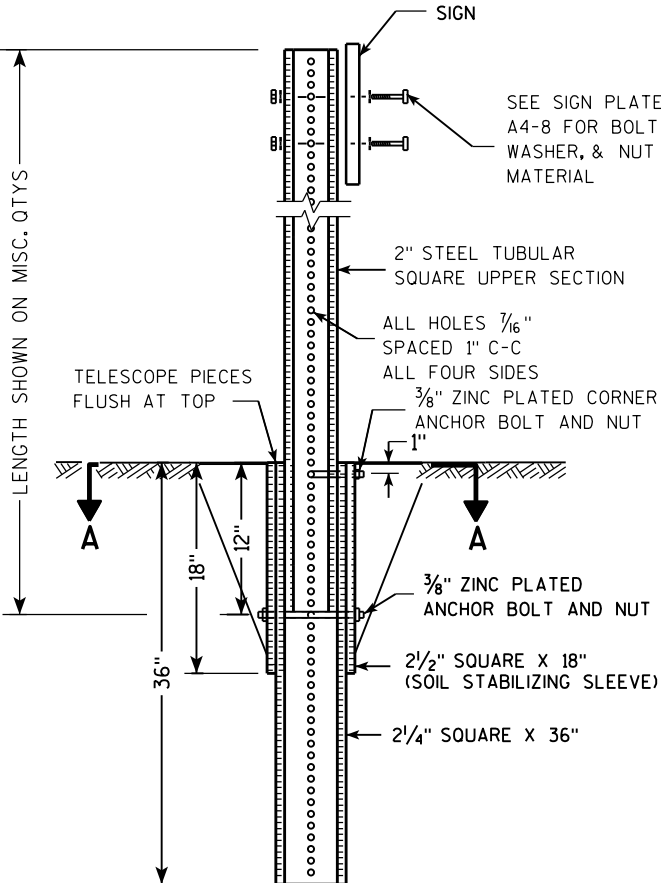
TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM



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)



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).

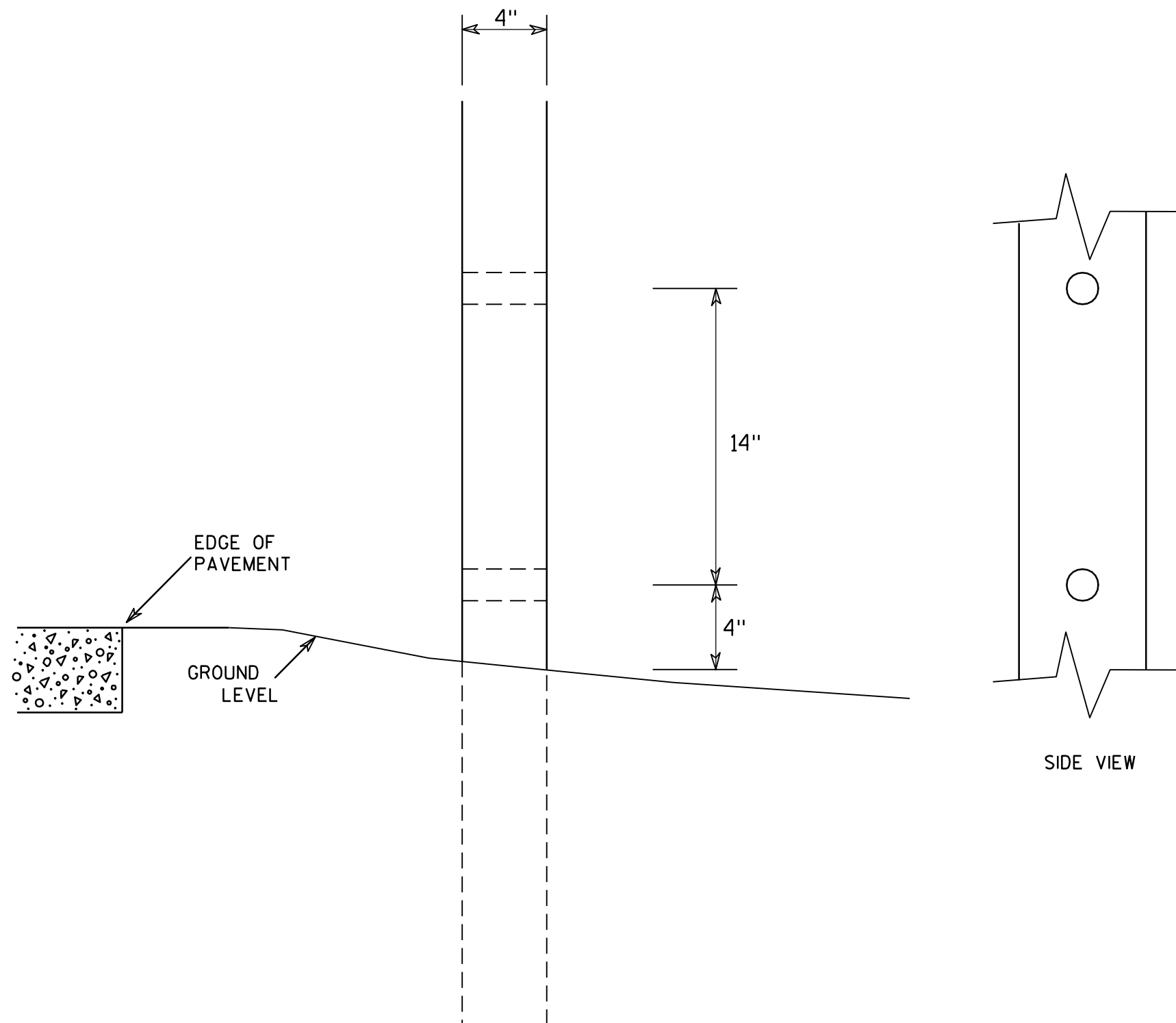
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/05/15 PLAT 155 14-9.9

7



GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

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

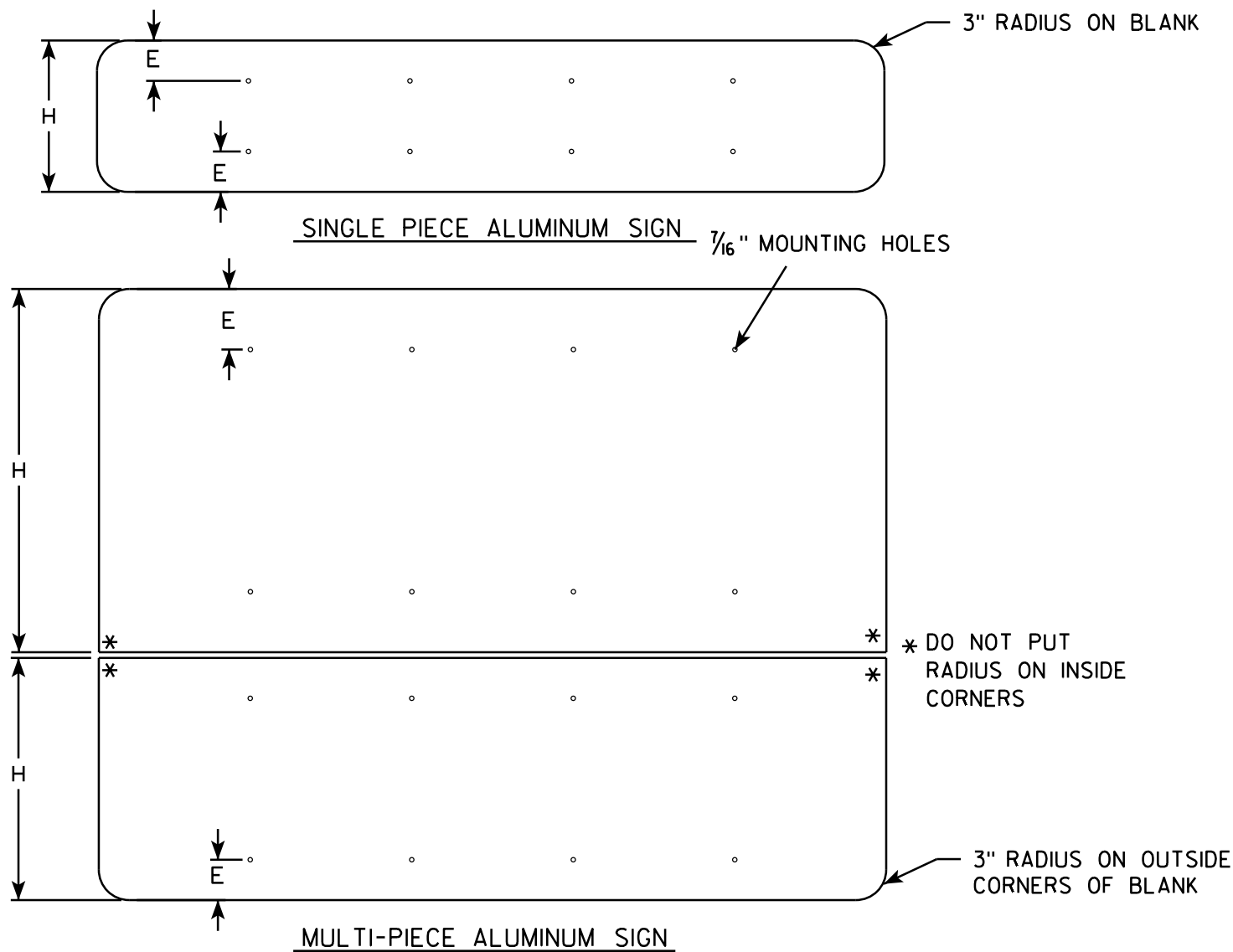
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 156

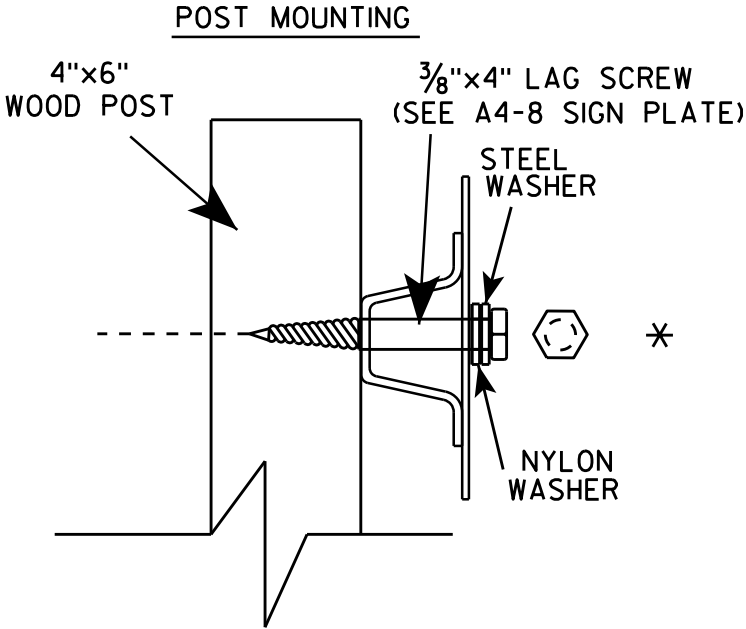
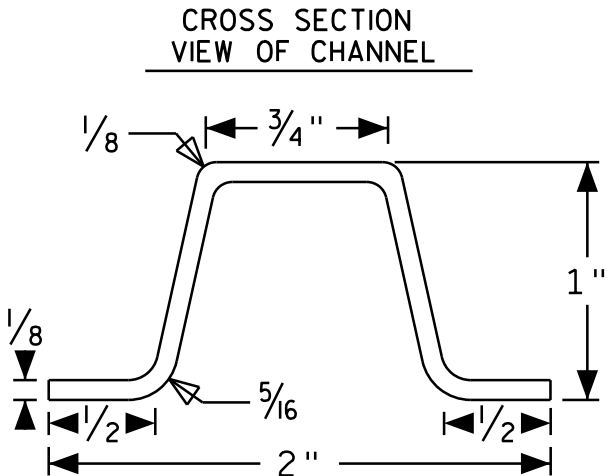
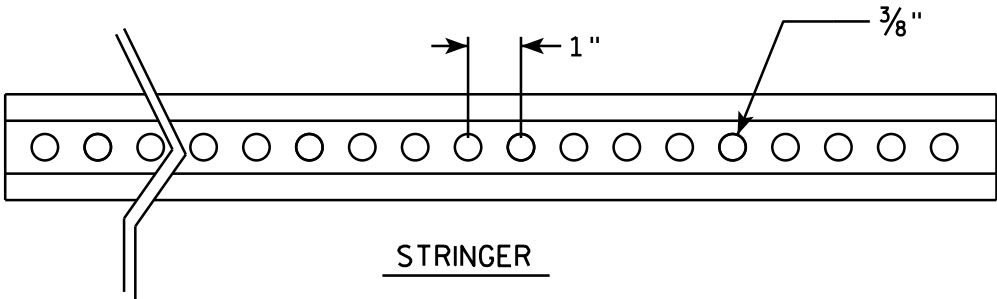
E



GENERAL NOTES

- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES			
78"	72"	2	16"	15"	31"	47"	63"
84"	72"	2	17"	16 1/2"	33 1/2"	50 1/2"	67 1/2"
90"	72"	2	18"	18"	36"	54"	72"
96"	90"	2	19"	19 1/2"	38 1/2"	57 1/2"	76 1/2"
102"	90"	2	20"	21"	41"	61"	81"
108"	90"	2	21"	22 1/2"	43 1/2"	64 1/2"	85 1/2"
114"	108"	3	15"	12"	27"	42"	57" 72" 87" 102"
120"	108"	3	16"	12"	28"	44"	60" 76" 92" 108"
126"	108"	3	17"	12"	29"	46"	63" 80" 97" 114"
132"	126"	3	18"	12"	30"	48"	66" 84" 102" 120"
138"	126"	3	19"	12"	31"	50"	69" 88" 107" 126"
144"	126"	3	20"	12"	32"	52"	72" 92" 112" 132"



SIGN STRINGER
MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

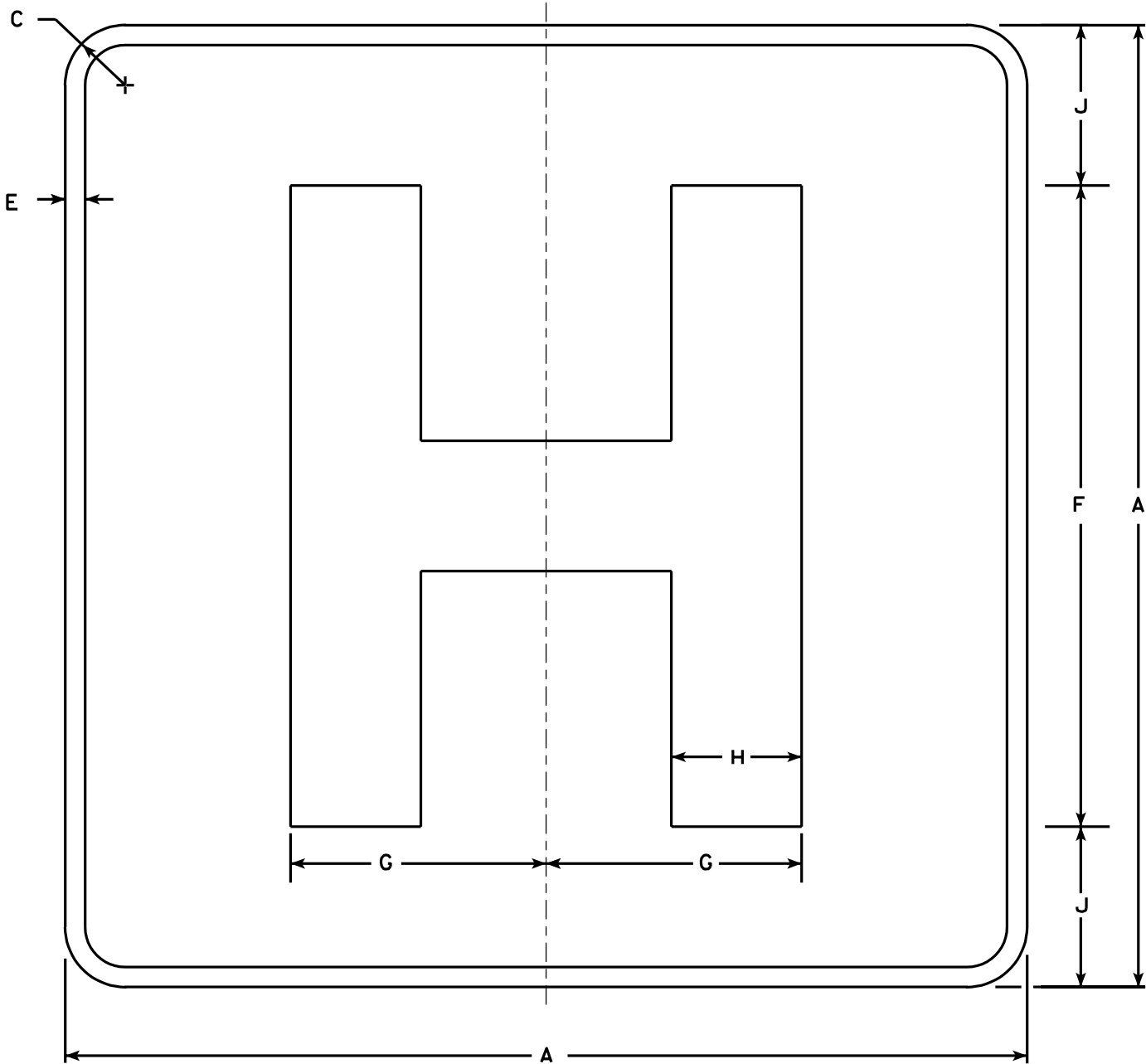
DATE 4/26/16 PLATE No A4-18.1
157

7

Metric equivalent
for this sign is:

SIZE	
1	450 mmX 450 mm
2	600 mmX 600 mm
3	900 mmX 900 mm
4	X
5	X

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		1/2	12	4 3/4	2 3/8		3																	4.0
2	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											



NOTES

- Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Blue
Message - White - Type H Reflective
- Message Series - E Modified
- 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.

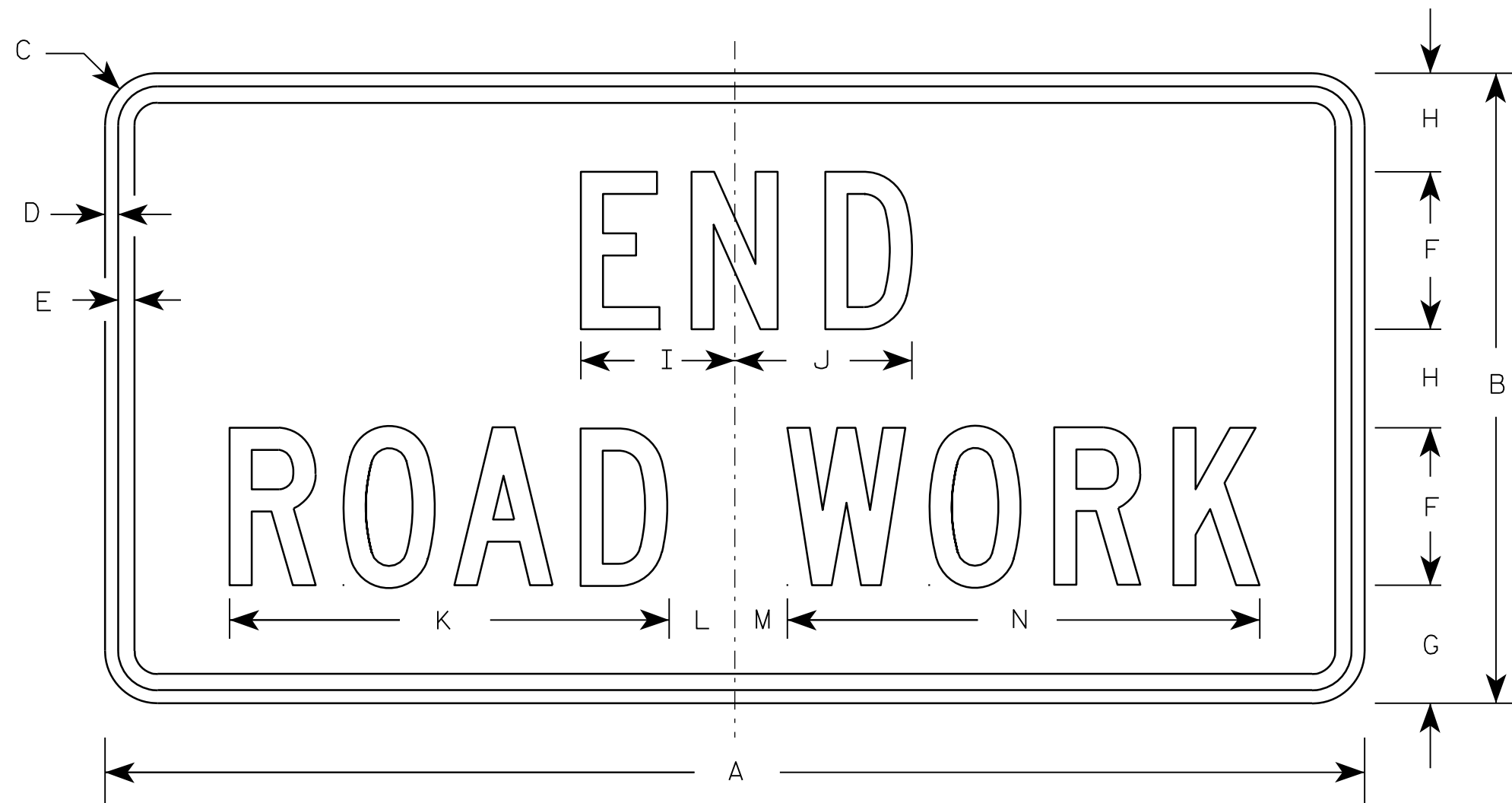
STANDARD SIGN
D9-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Chester J. Spang
for State Traffic Engineer

DATE 1/15/02 PLATE NO. D9-2.4

7



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent
for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area sq. m.
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

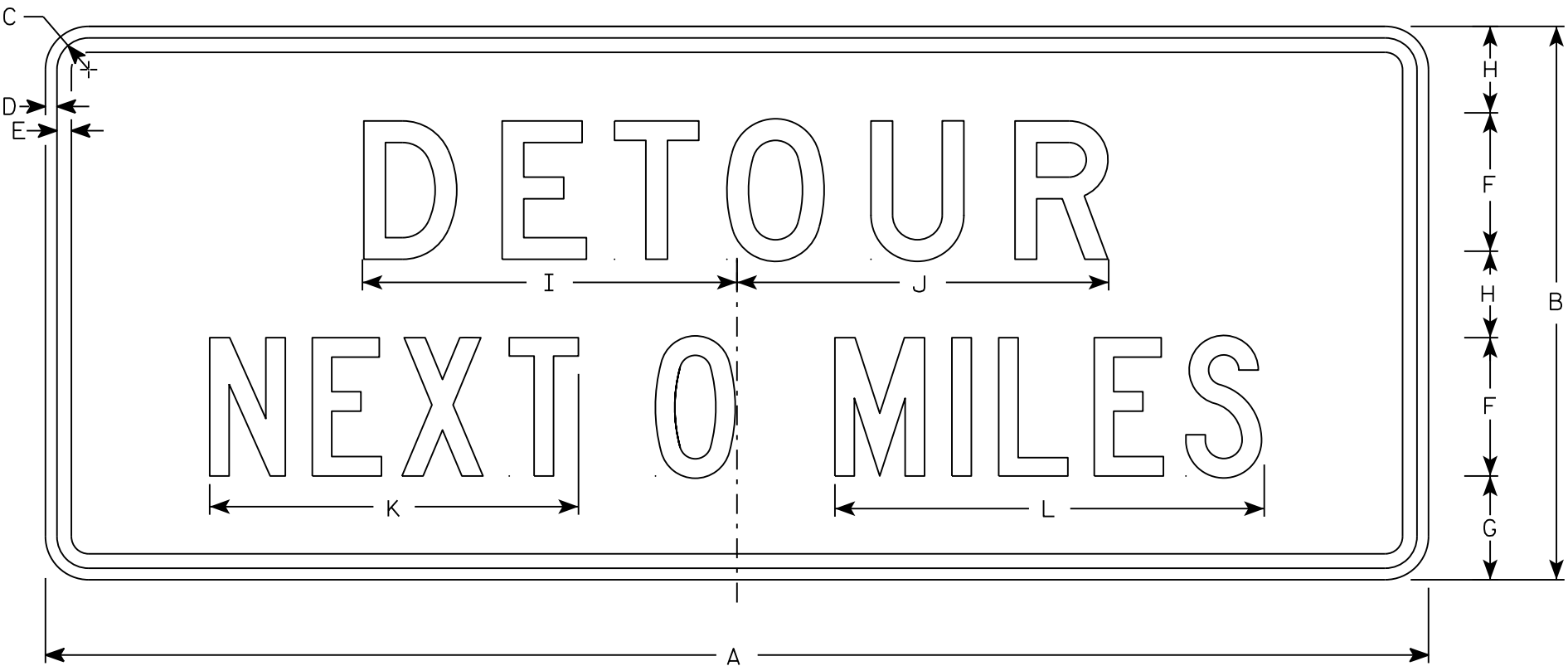
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

7

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Orange
Message - Black
- 3. Message Series - Line 1 is D and Line 2 is 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. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance



G20-51

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	60	24	1 3⁄8	1⁄2	5⁄8	6	4 1⁄2	3 3⁄4	16 1⁄4	16 1⁄8	16	18 5⁄8															10
3																											
4	60	24	1 3⁄8	1⁄2	5⁄8	6	4 1⁄2	3 3⁄4	16 1⁄4	16 1⁄8	16	18 5⁄8															10
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 160

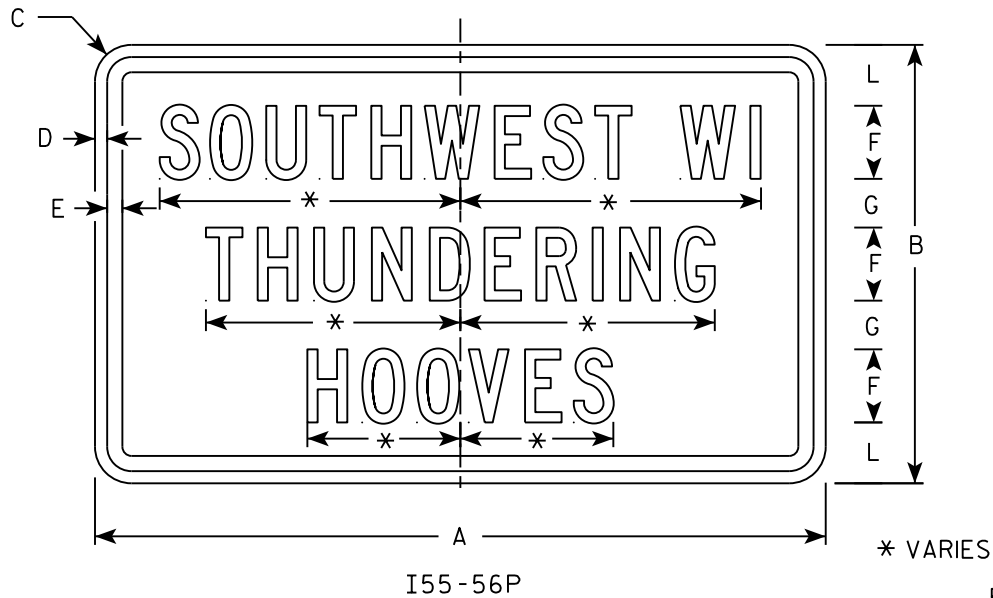
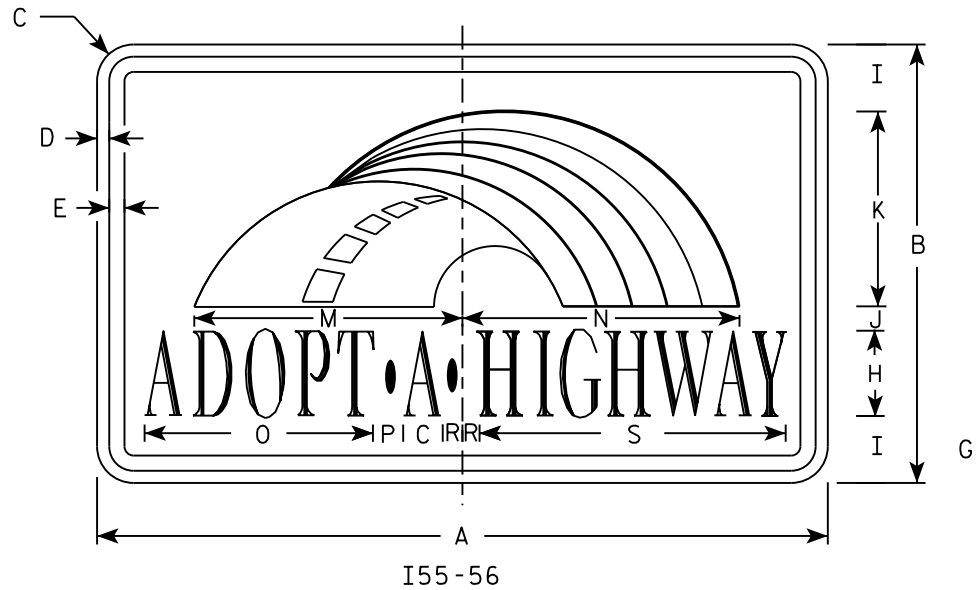
E

STANDARD SIGN
G20-51

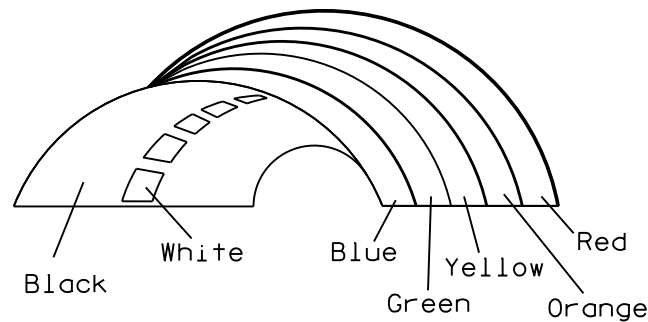
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-51.2



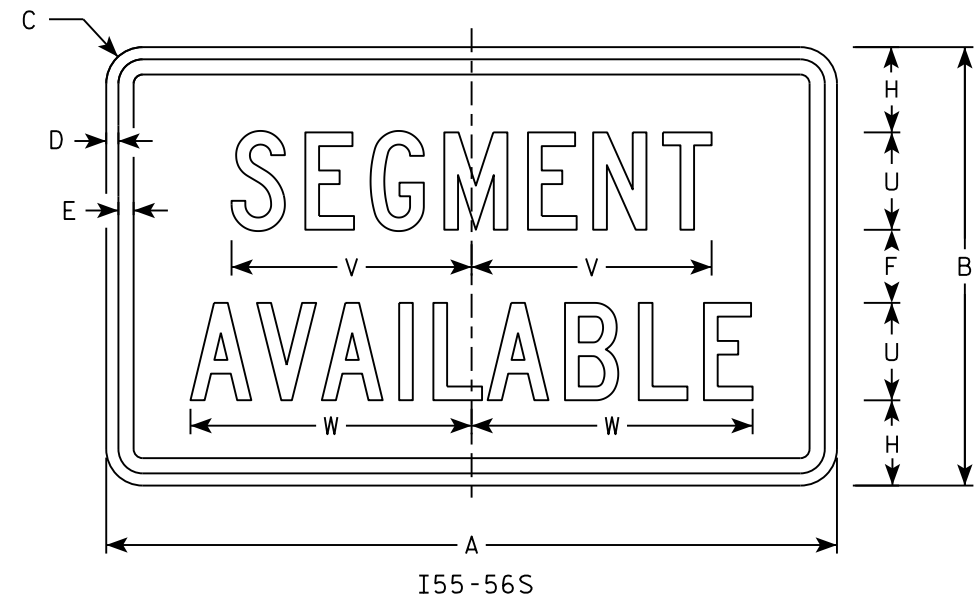
Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - (See Note 4)
3. Message Series - (See Note 5)
4. Border - Blue
Adopt a Highway - Red
All other Text - Blue
5. Adopt a Highway - Dutch 8011L
All other Text - Series C
6. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign 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																											
2	30	18	1 1/2	1/2	5/8	3	2	3 1/2	2 3/4	1	8	2 1/2	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2	4	9 7/8	11 1/2				3.75
3																											
4																											
5																											

PROJECT NO:

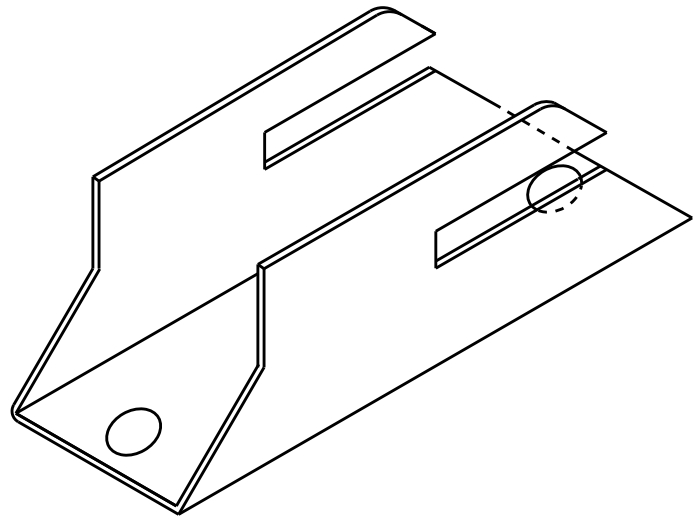
HWY:

COUNTY:

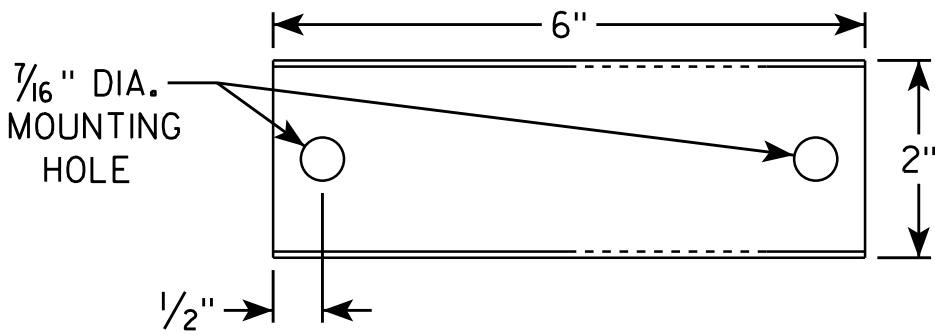
SHEET NO: 161

E

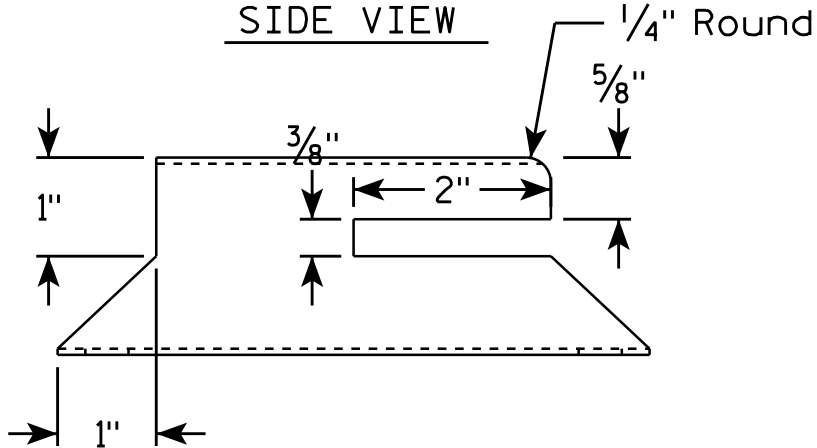
ISOMETRIC VIEW



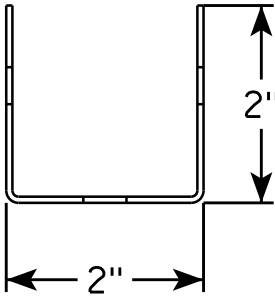
TOP VIEW



SIDE VIEW



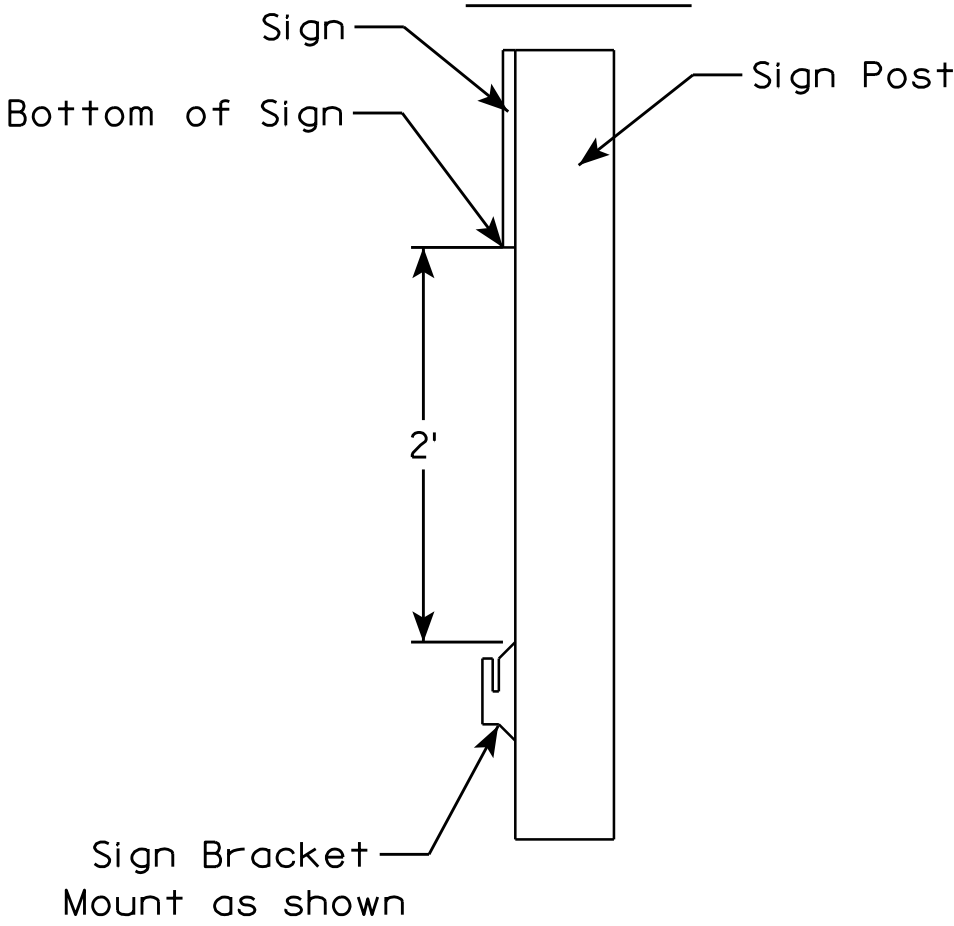
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

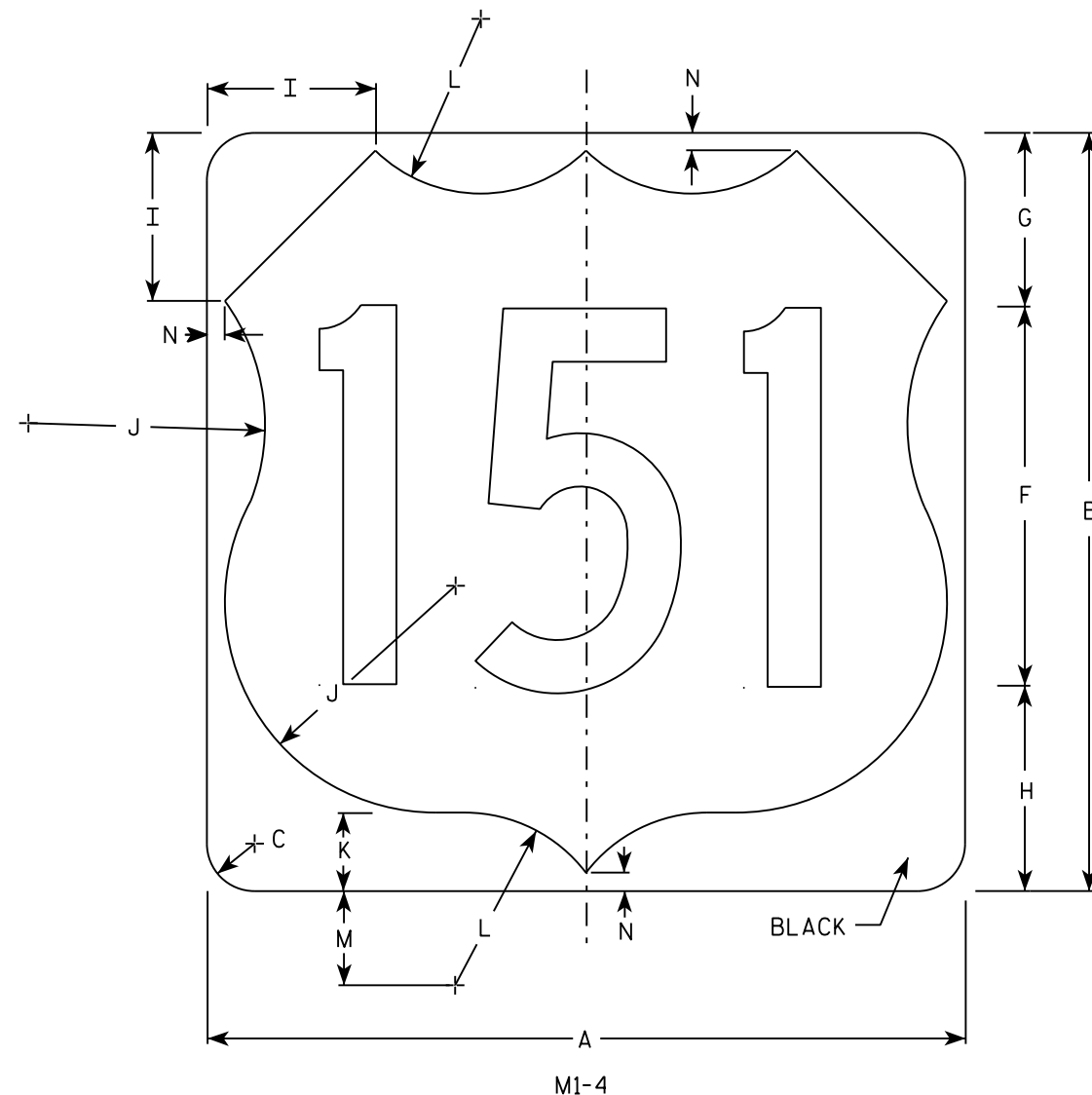
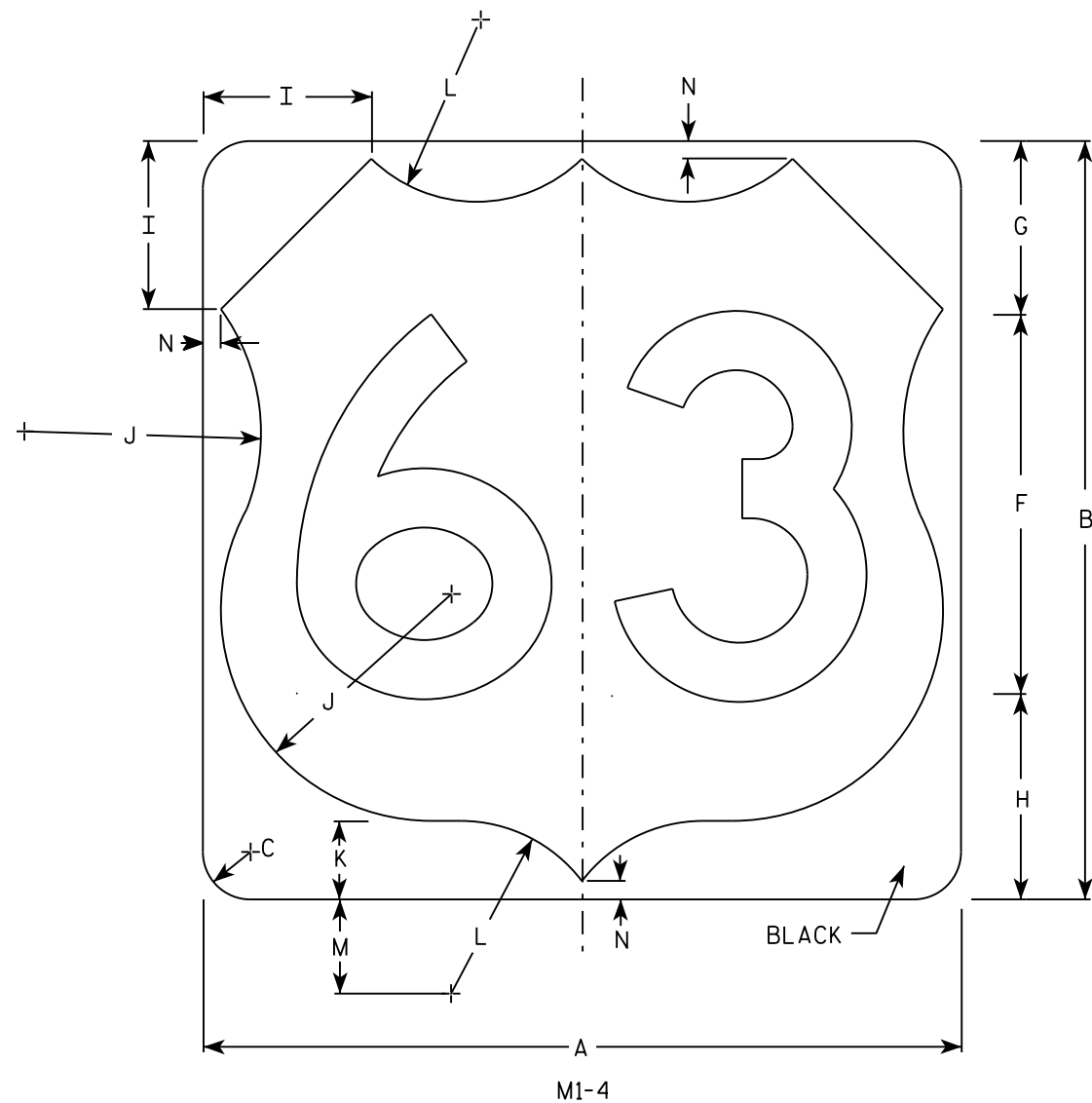
SIDE VIEW



ROLLUP SIGN BRACKET I55-56B	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 4/26/16	PLA 162 I55-56B.2

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - Black
3. Message Series - D except 3 number signs 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	Areq. sq. ft.
1																											
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 163	E
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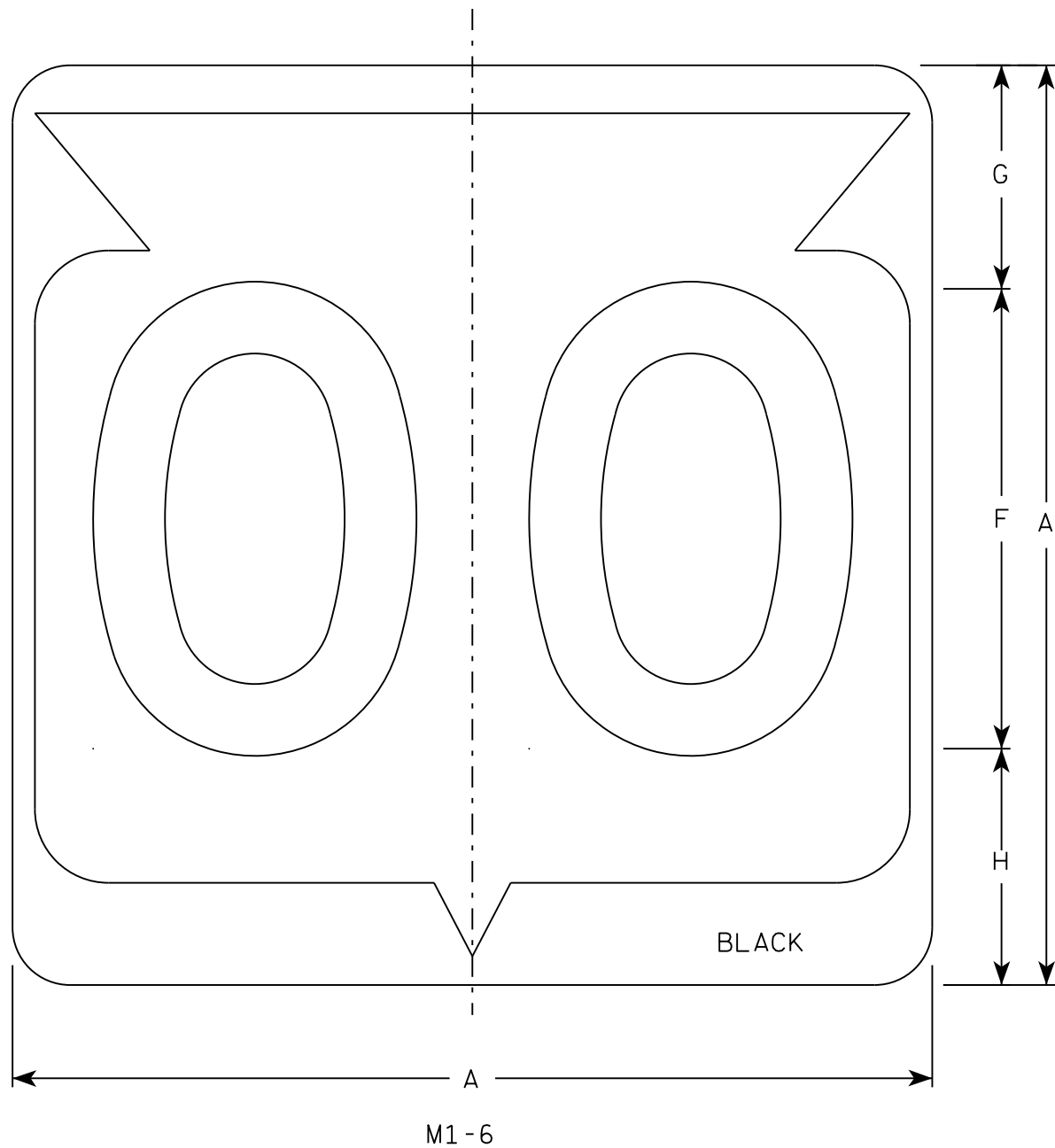
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

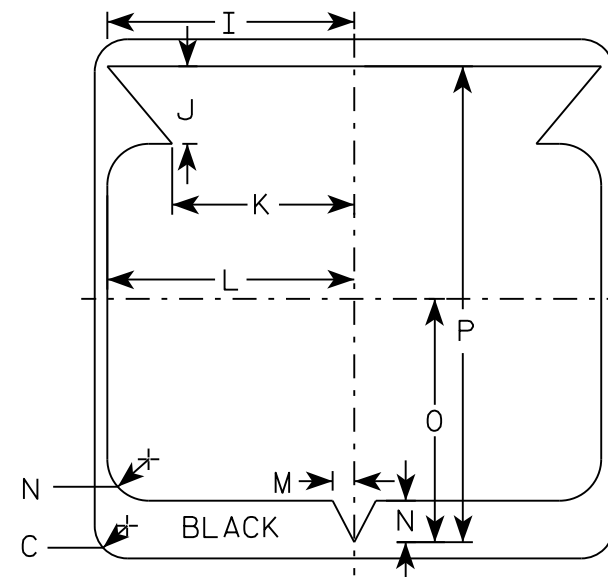
DATE 3/16/18 PLATE NO. M1-4.10

7



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
Background - White
Message - Black
3. Message Series - D except 3 number signs 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.



7

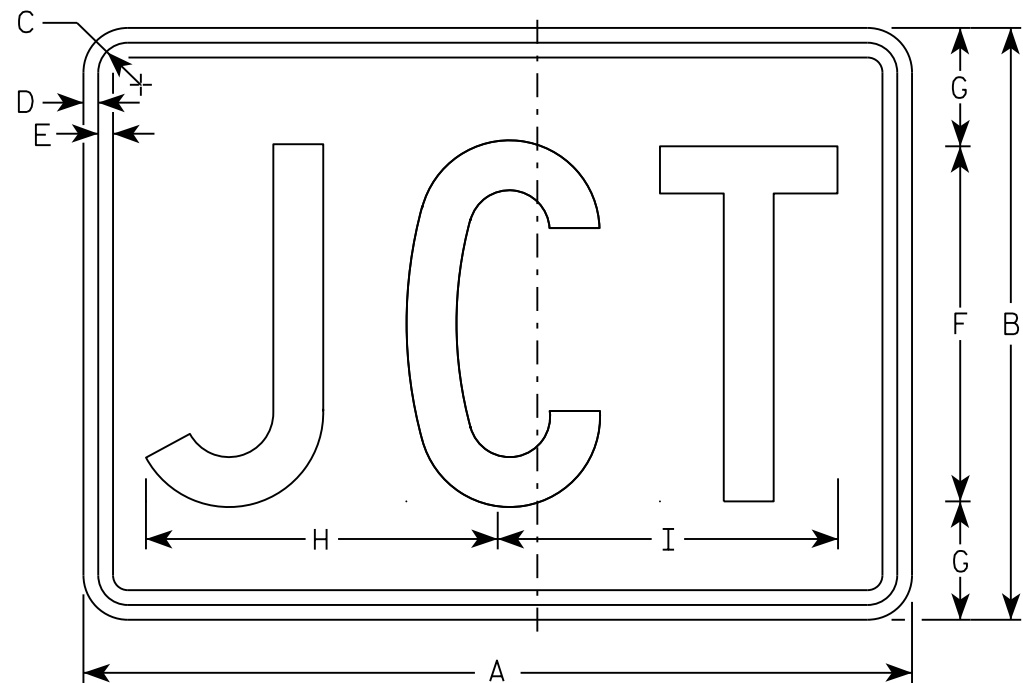
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 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
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

STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

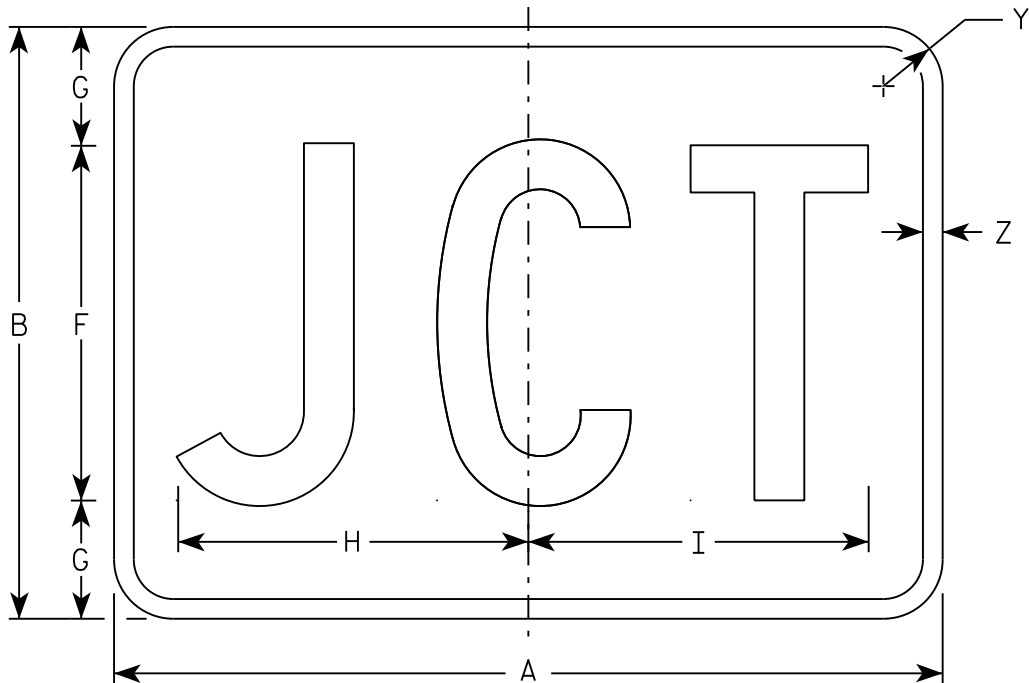
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

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
 MP2-1 Background - White
 Message - Blue
 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

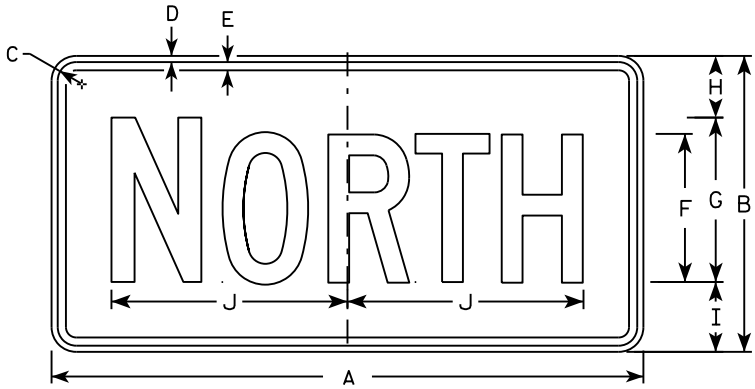
Matthew R. Rauch

For State Traffic Engineer

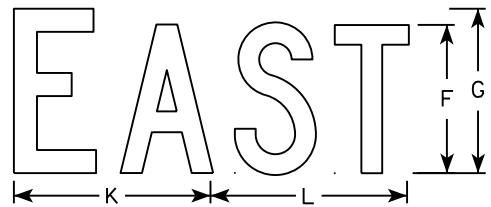
DATE 10/15/15

PLATE 165

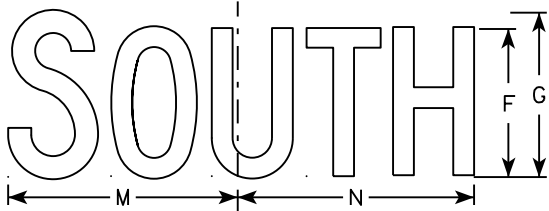
'2-1.12



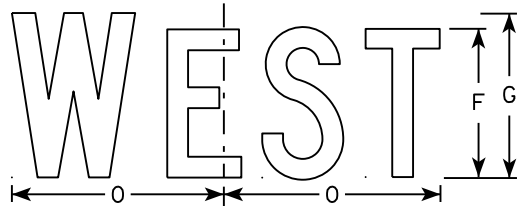
M3-1
MM3-1
MP3-1



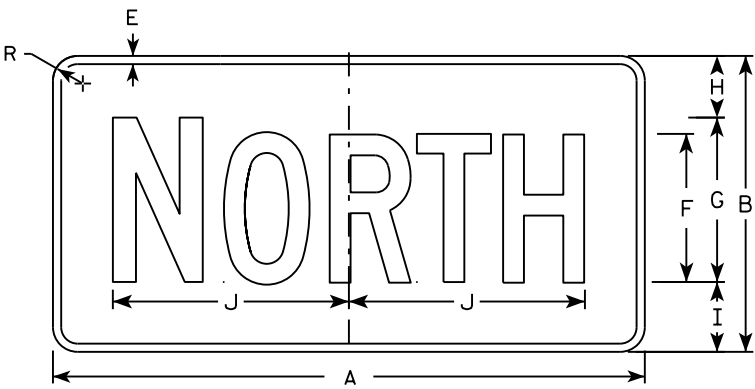
M3-2
MM3-2
MP3-2



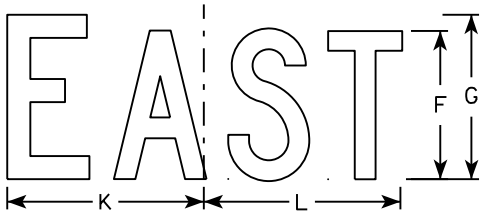
M3-3
MM3-3
MP3-3



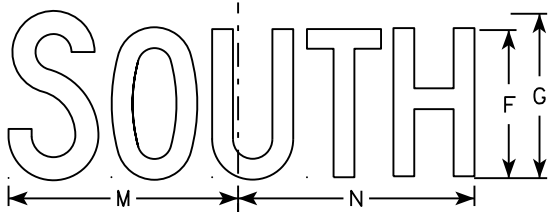
M3-4
MM3-4
MP3-4



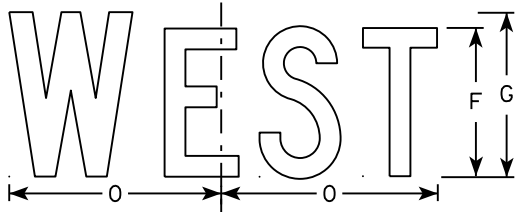
MB3-1
MK3-1
MN3-1



MB3-2
MK3-2
MN3-2



MB3-3
MK3-3
MN3-3



MB3-4
MK3-4
MN3-4

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
MP3-1 thru MP3-4 Background - White
Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

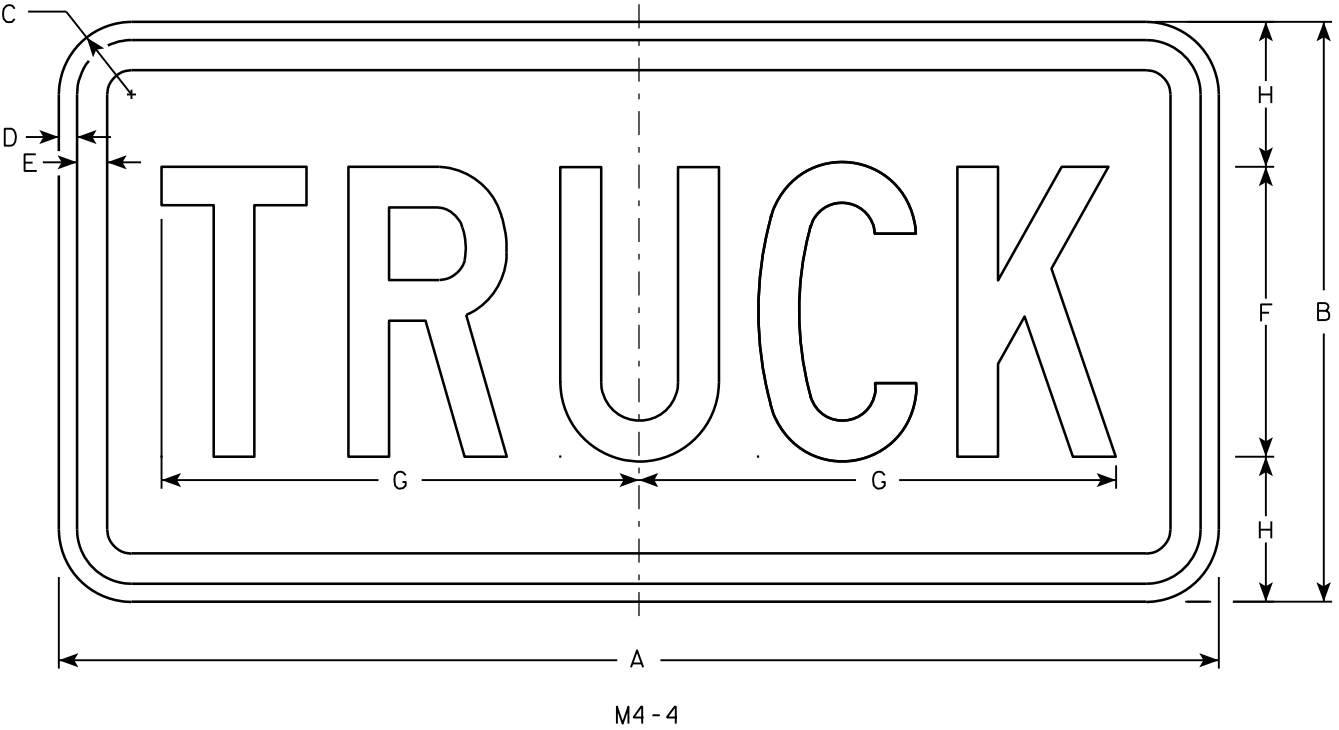
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	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 thru M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. 166 M3-1.14



NOTES

- 1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
 - Background - White - See Note 5
 - 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. Permanent Signs
 - Background - Type H ReflectiveTemporary or other temporary Signs
 - Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/2	3/8	3/8	6	9 7/8	3																			2.0
3	36	18	1 1/2	3/8	1/2	9	15 5/8	4 1/2																			4.5
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 167

E

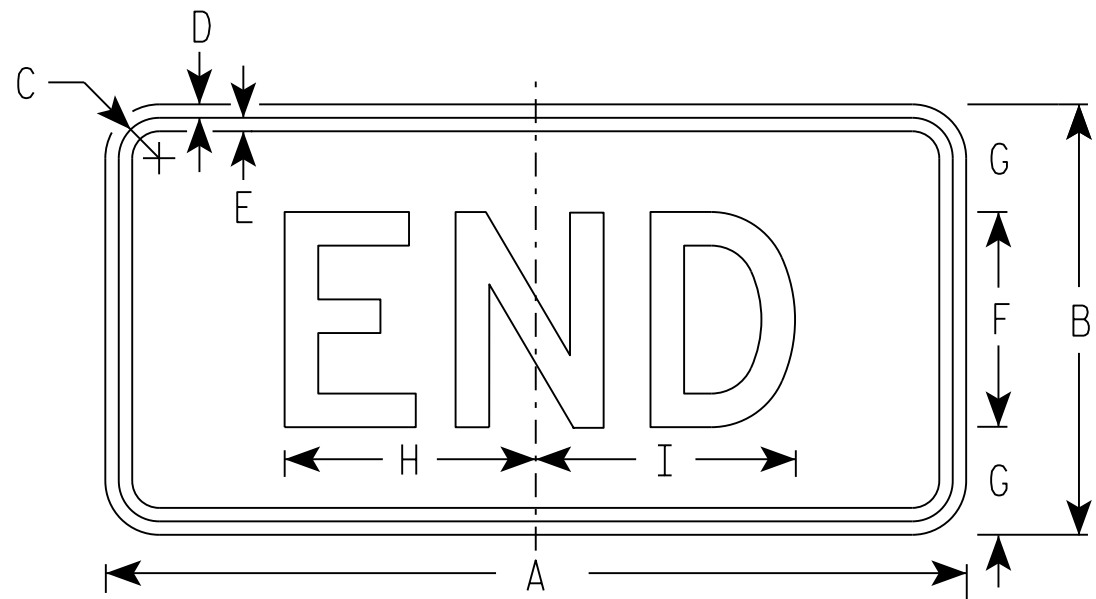
STANDARD SIGN

M4 - 4

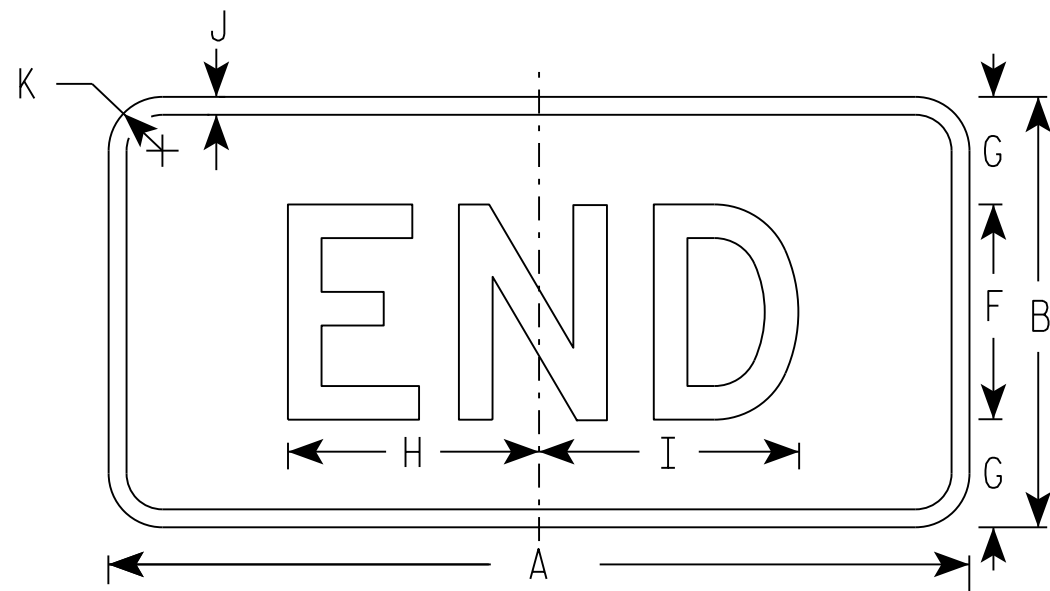
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-4.3



M4-6
MM4-6
MP4-6



MB4-6
MK4-6
MN4-6
MR4-6

NOTES

- Sign is Type II - Type H
- Color:
Background - See note 5
Message - See note 5
- Message Series - D
- 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.
- M4-6 Background - White
Message - Black
MB4-6 Background - Blue
Message - White
MK4-6 Background - Green
Message - White
MM4-6 Background - White
Message - Green
MN4-6 Background - Brown
Message - White
MP4-6 Background - White
Message - Blue
MR4-6 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	24	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN
M4-6

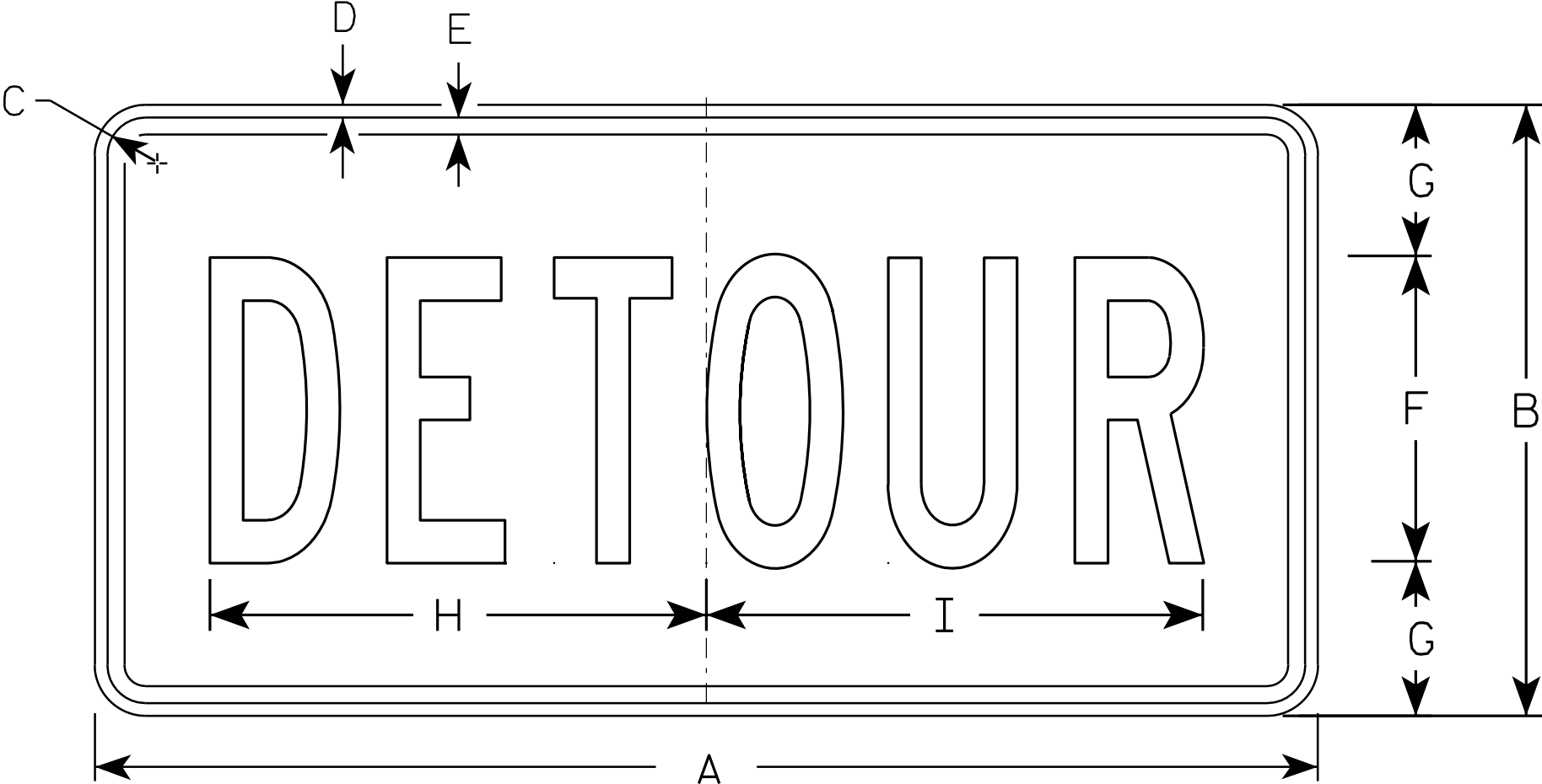
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15 PLAT 168 '14-7.9

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.



M4 - 8

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	Areg 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																											

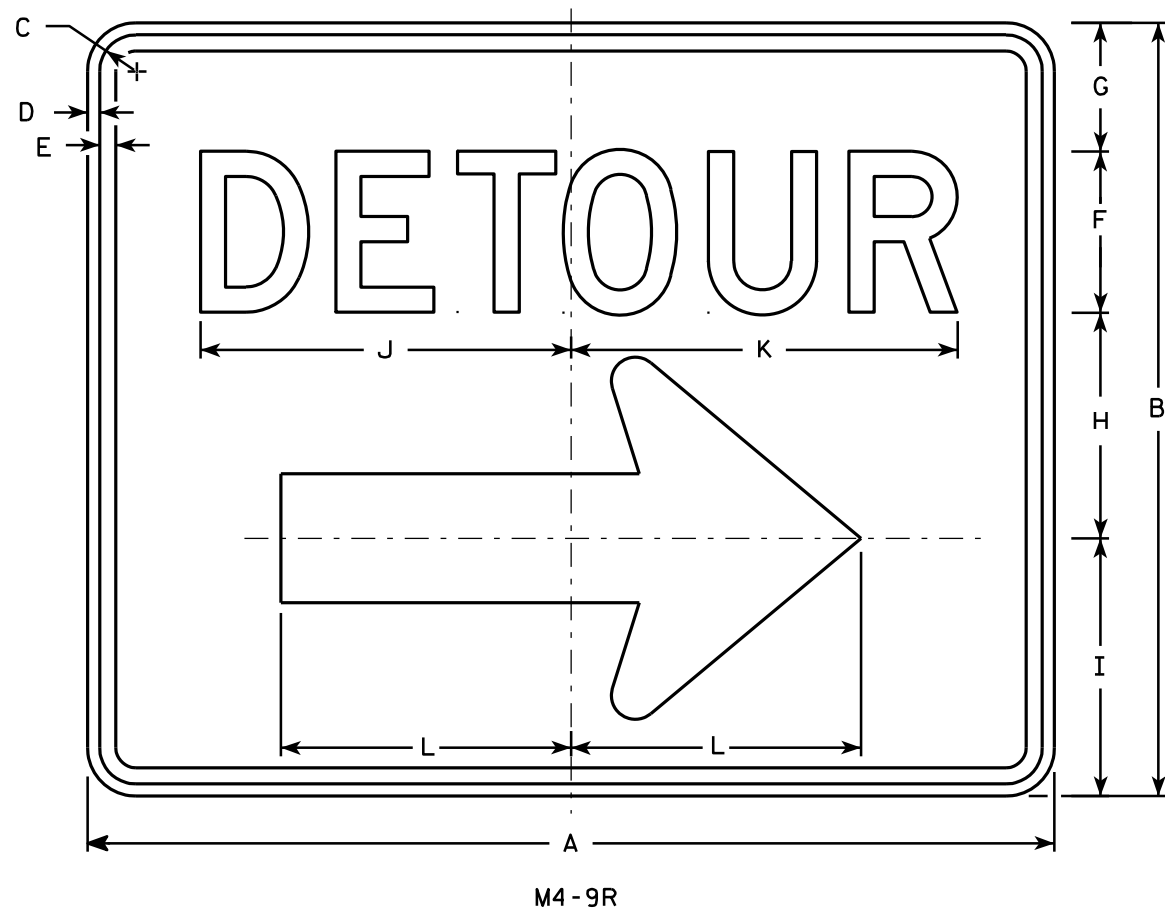
STANDARD SIGN

M4 - 8

WISCONSIN DEPT OF TRANSPORTATION

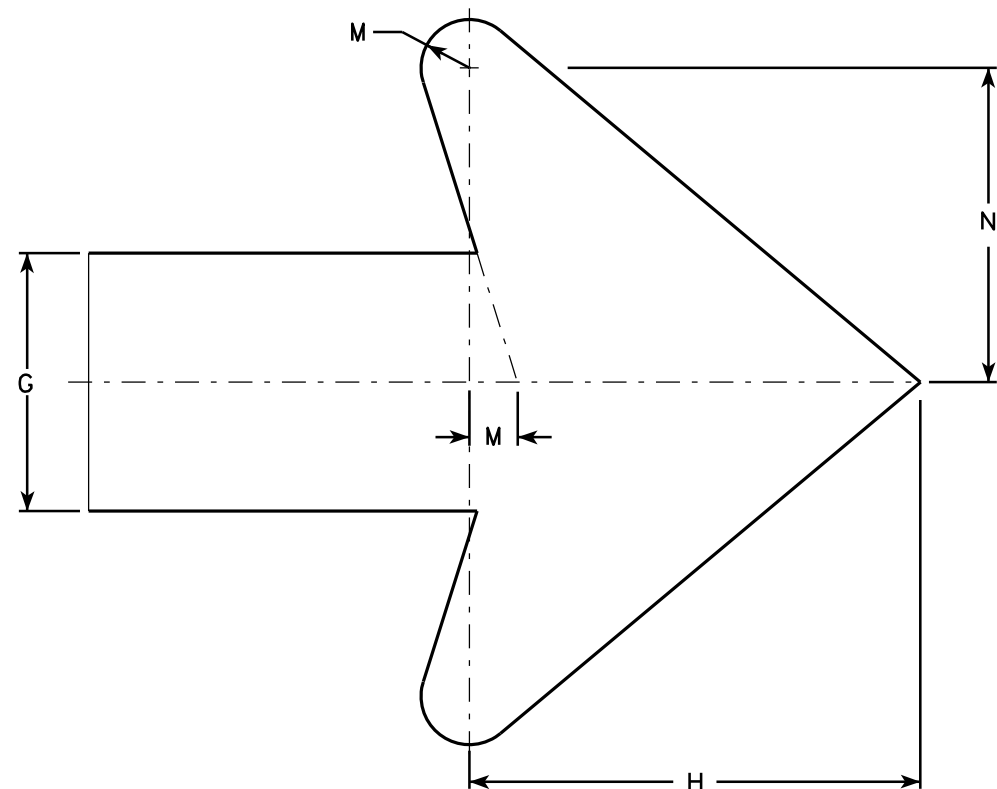
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2



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 - 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. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

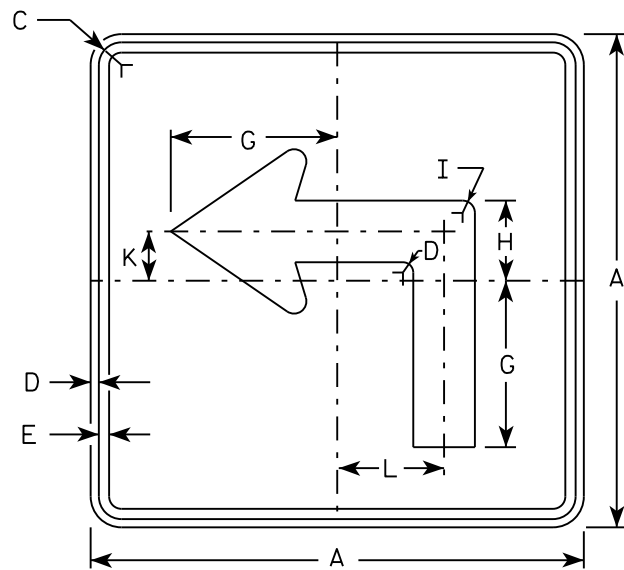
PROJECT NO:	HWY:	COUNTY:	SHEET NO: 170	E
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STANDARD SIGN
M4-9 R & L

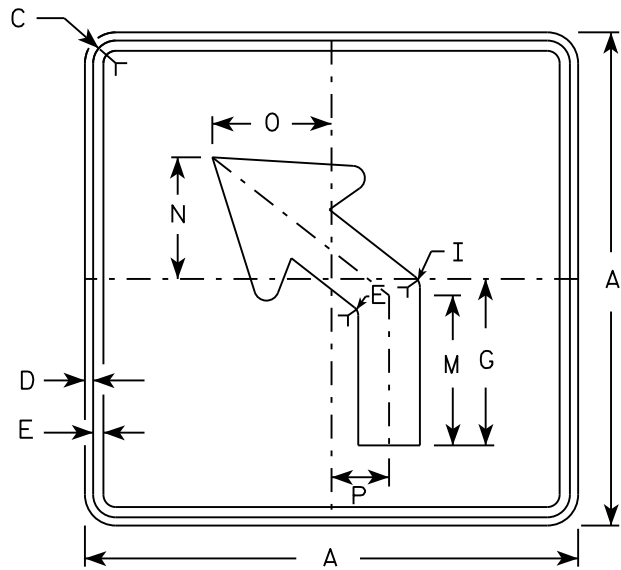
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

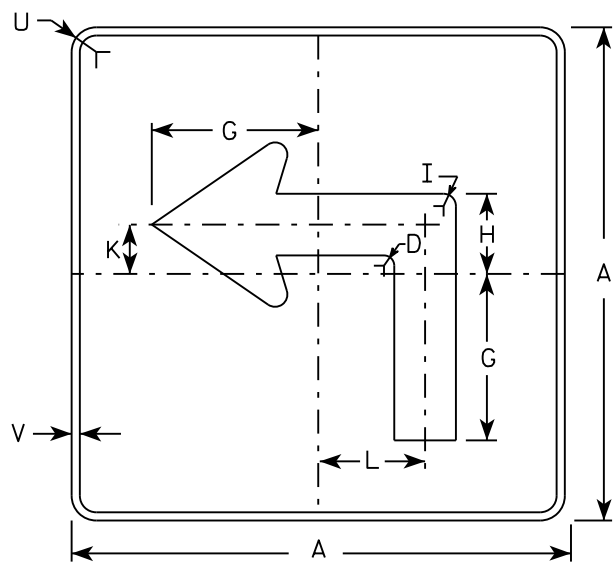
DATE 3/9/11 PLATE NO. M4-9R.4



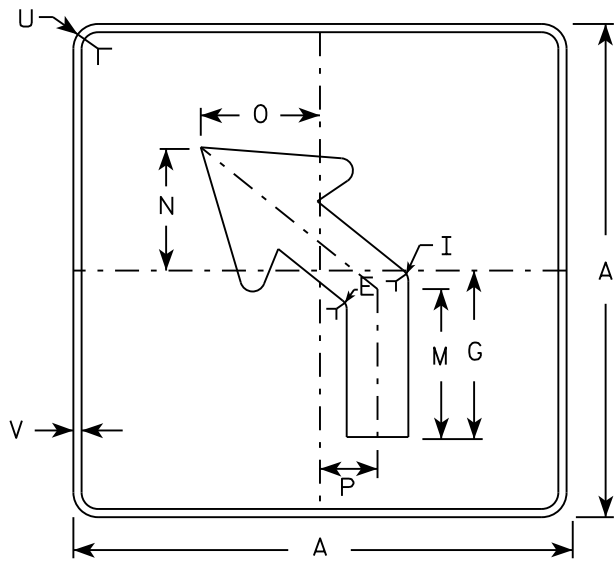
M5-1L
MM5-1L
M05-1L
MP5-1L



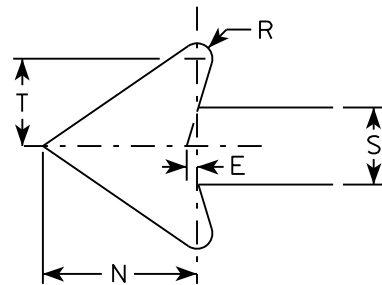
M5-2L
MM5-2L
M05-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

- Signs are Type II - Type H reflective except as shown
- Color:
Background - See note 4
Message - See note 4
- CornerRadius 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.
- | | |
|-----------------|---|
| M5-1 and M5-2 | Background - White |
| | Message - Black |
| MB5-1 and MB5-2 | Background - Blue |
| | Message - White |
| MK5-1 and MK5-2 | Background - Green |
| | Message - White |
| MM5-1 and MM5-2 | Background - White |
| | Message - Green |
| MN5-1 and MN5-2 | Background - Brown |
| | Message - White |
| M05-1 and M05-2 | 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 |
- M5-1R same as M5-1L except arrow points right.
- 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 7/8	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 7/8	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 7/8	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

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

STANDARD SIGN

M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

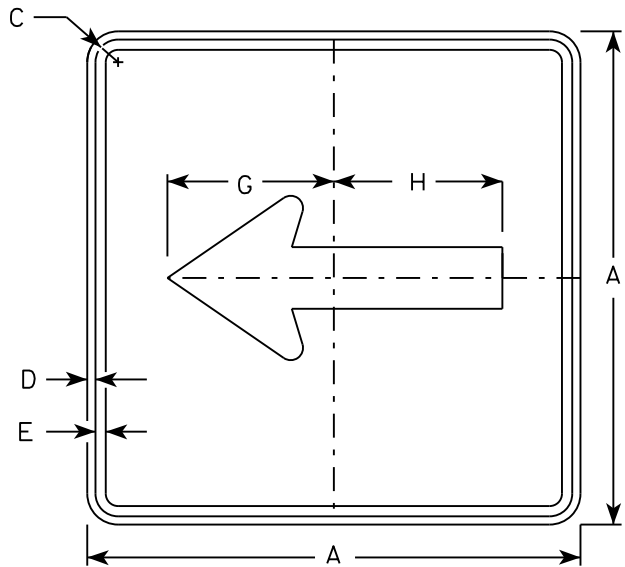
Matthew R. Rauch

for State Traffic Engineer

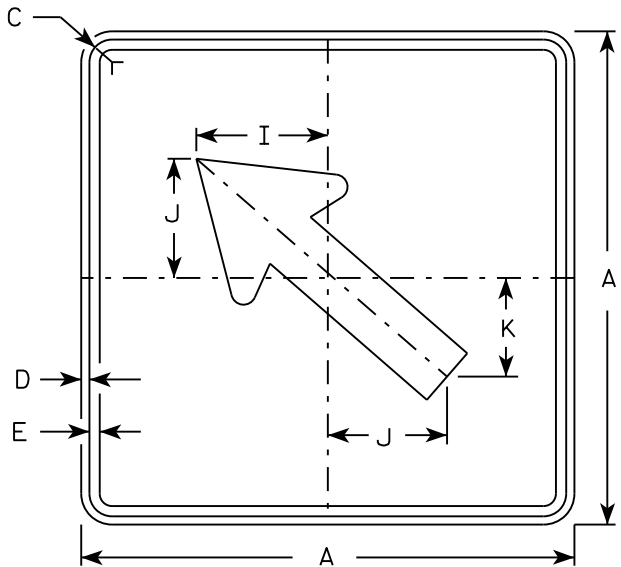
DATE 10/15/15

PLATE 171

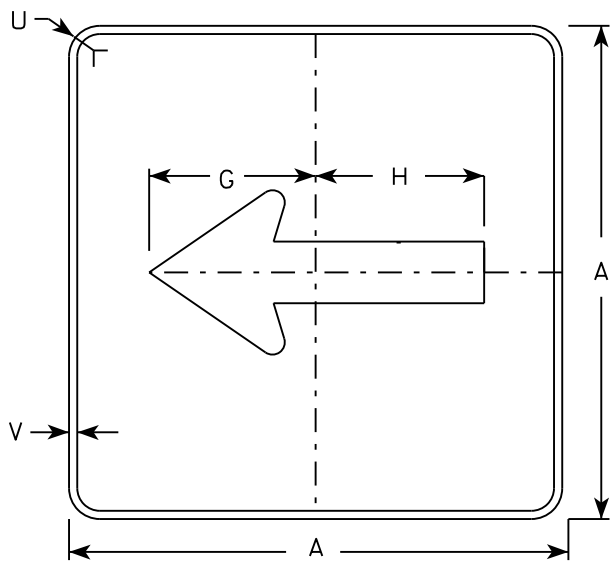
M5-1.13



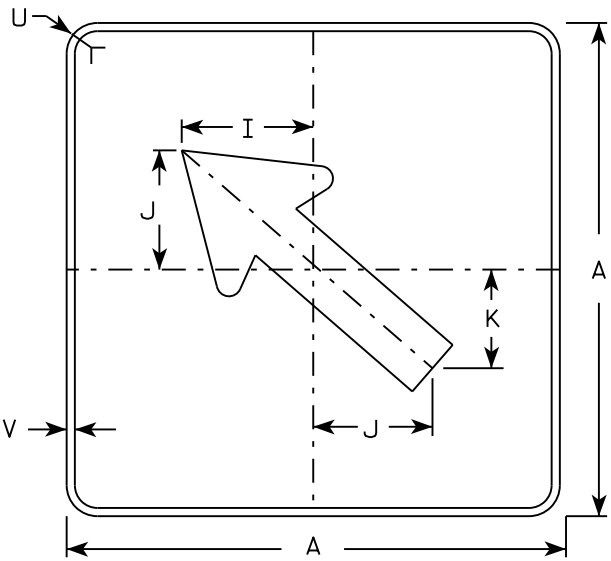
M6 - 1
MM6 - 1
M06 - 1
MP6 - 1



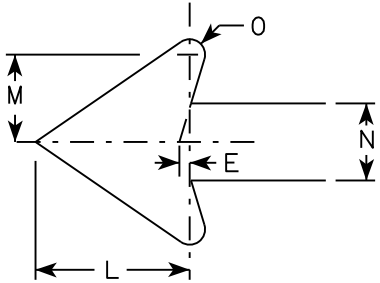
M6 - 2
MM6 - 2
M06 - 2
MP6 - 2



MB6 - 1
MK6 - 1
MN6 - 1
MR6 - 1



MB6 - 2
MK6 - 2
MN6 - 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
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
M06-1 and M06-2 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

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

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

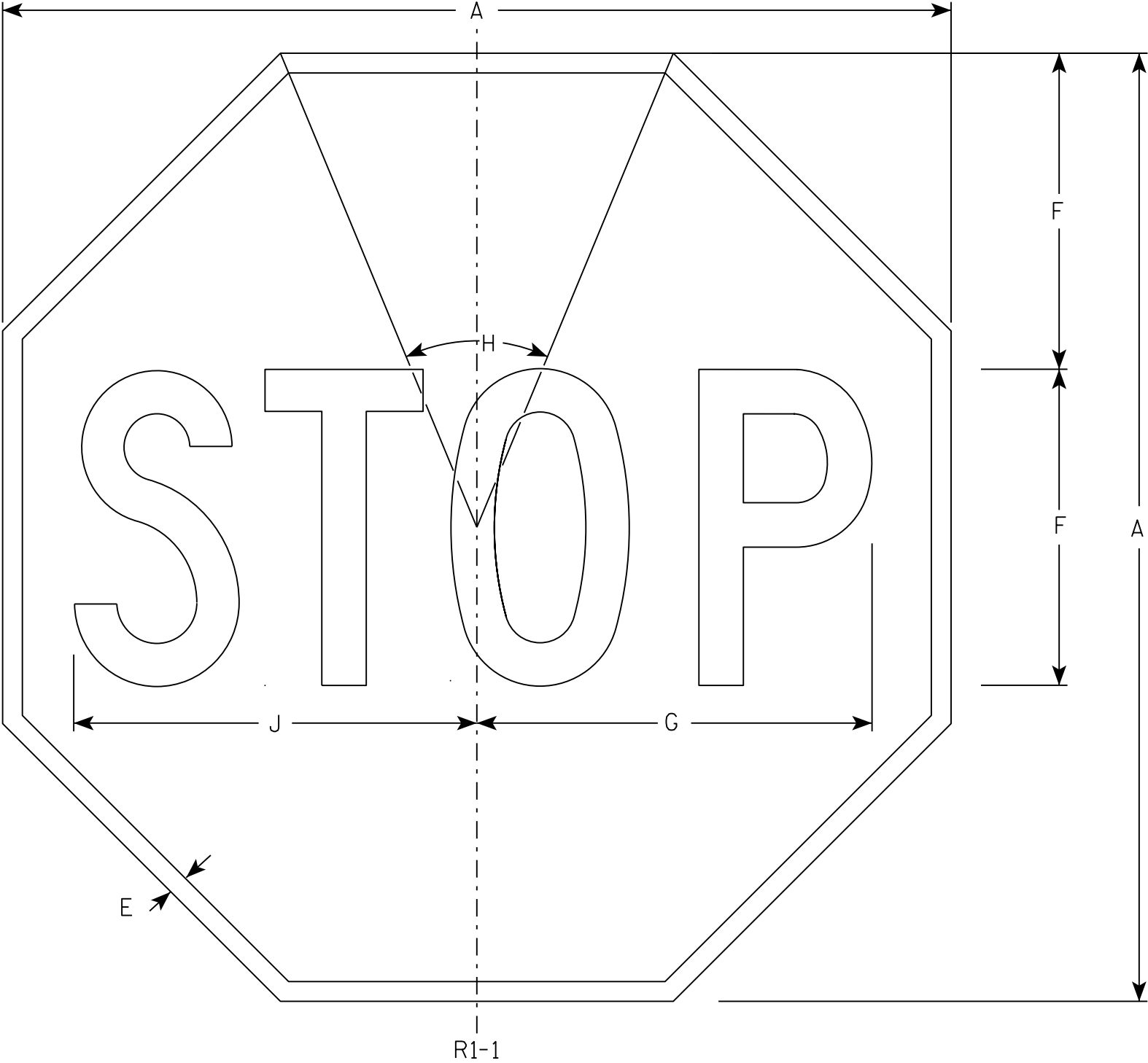
STANDARD SIGN
M6 - 1 & M6 - 2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15 PLAT 172 M6-1.15

7



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

7

R1-1

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN
R1 - 1

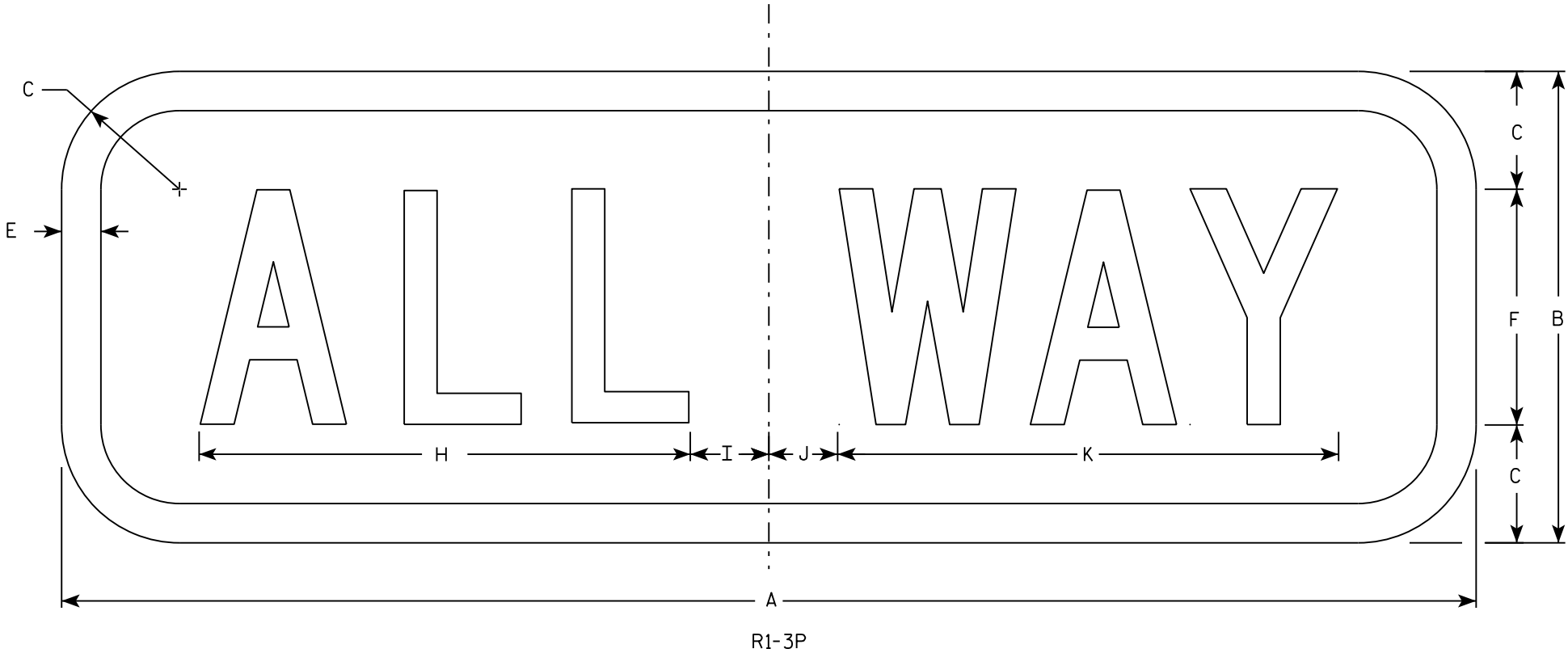
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

NOTES

- 1. Sign is Type II - Type H Reflective
- 2. Color:
Background - Red
Message - White
- 3. Message Series - C
- 4. For 30"x30" R1-1 use 18"x6" R1-3P sign
For 36"x36" R1-1 use 24"x9" R1-3P sign
For 48"x48" R1-1 use 30"x12" R1-3P 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	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	24	9	1 1/2		1/2	5		9 1/4	1 1/4	3/4	9 3/4																1.5
4	30	12	2 1/4		5/8	6		11	2 1/4	1 1/2	11 3/4																2.5
5	30	12	2 1/4		5/8	6		11	2 1/4	1 1/2	11 3/4																2.5

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 174

E

STANDARD SIGN

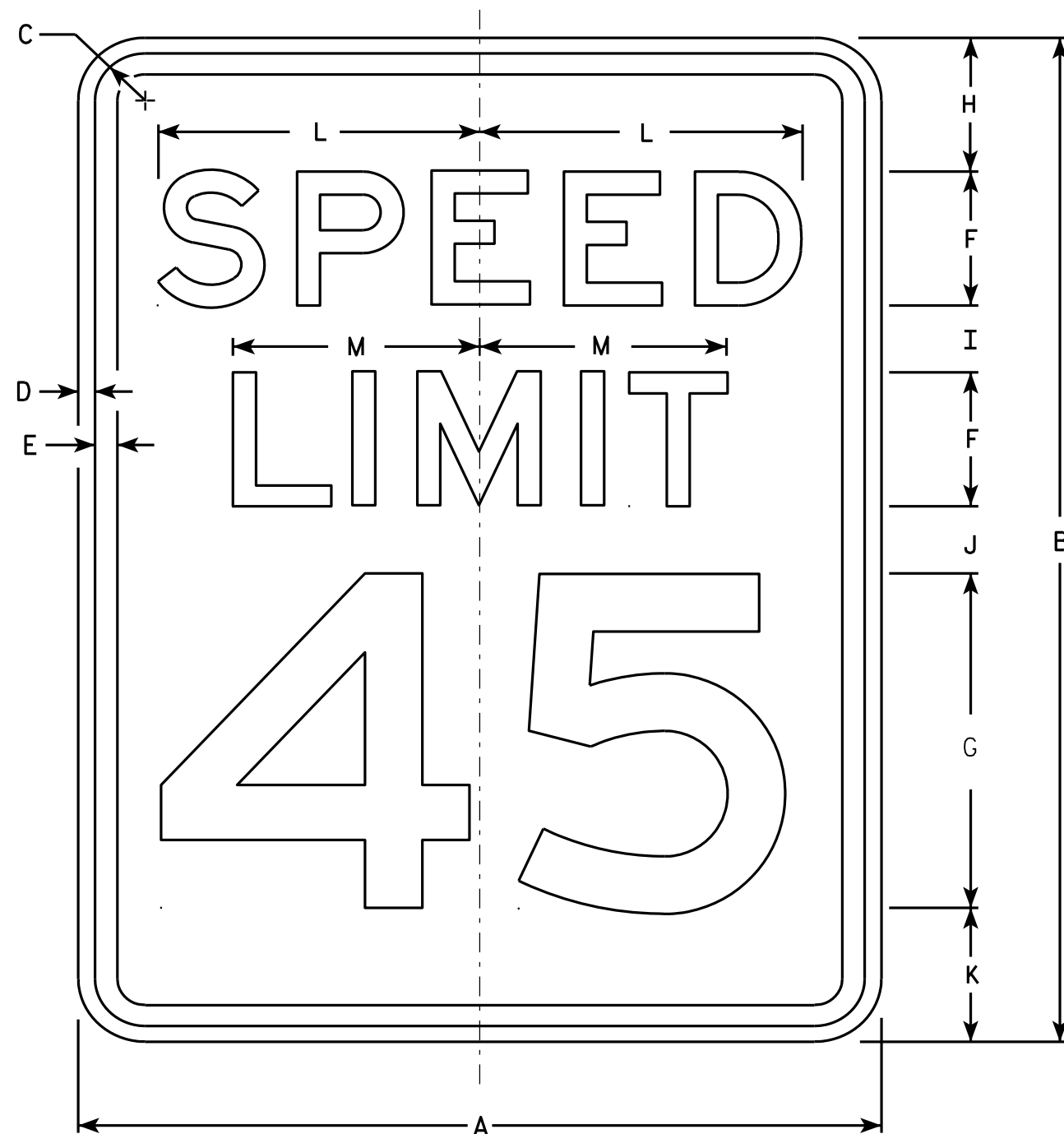
R1 - 3P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*

for State Traffic Engineer

DATE 11/29/16 PLATE NO. R1-3P.3



R2-1

NOTES

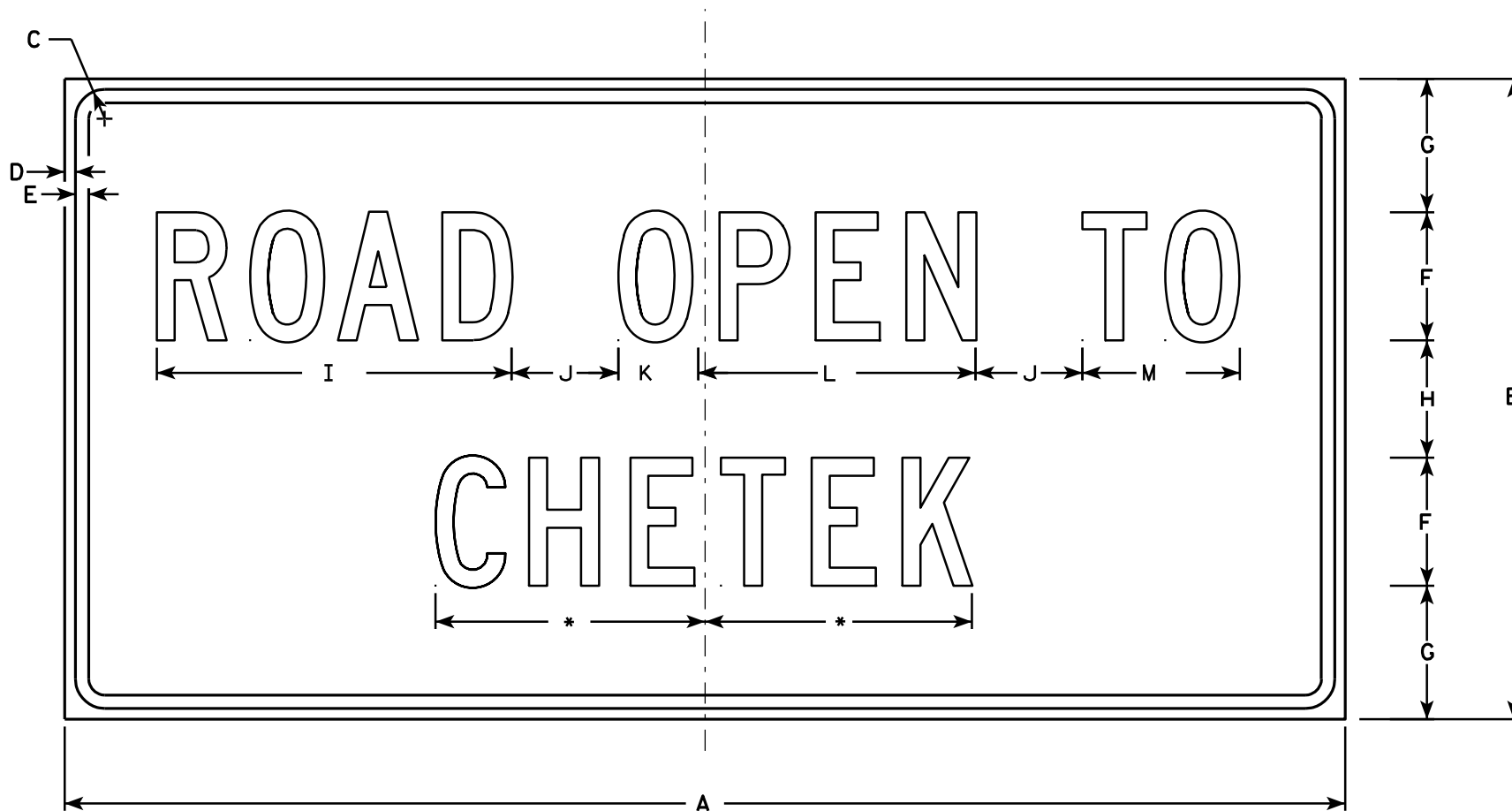
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as 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: 175 E



R10-61

*See note 5

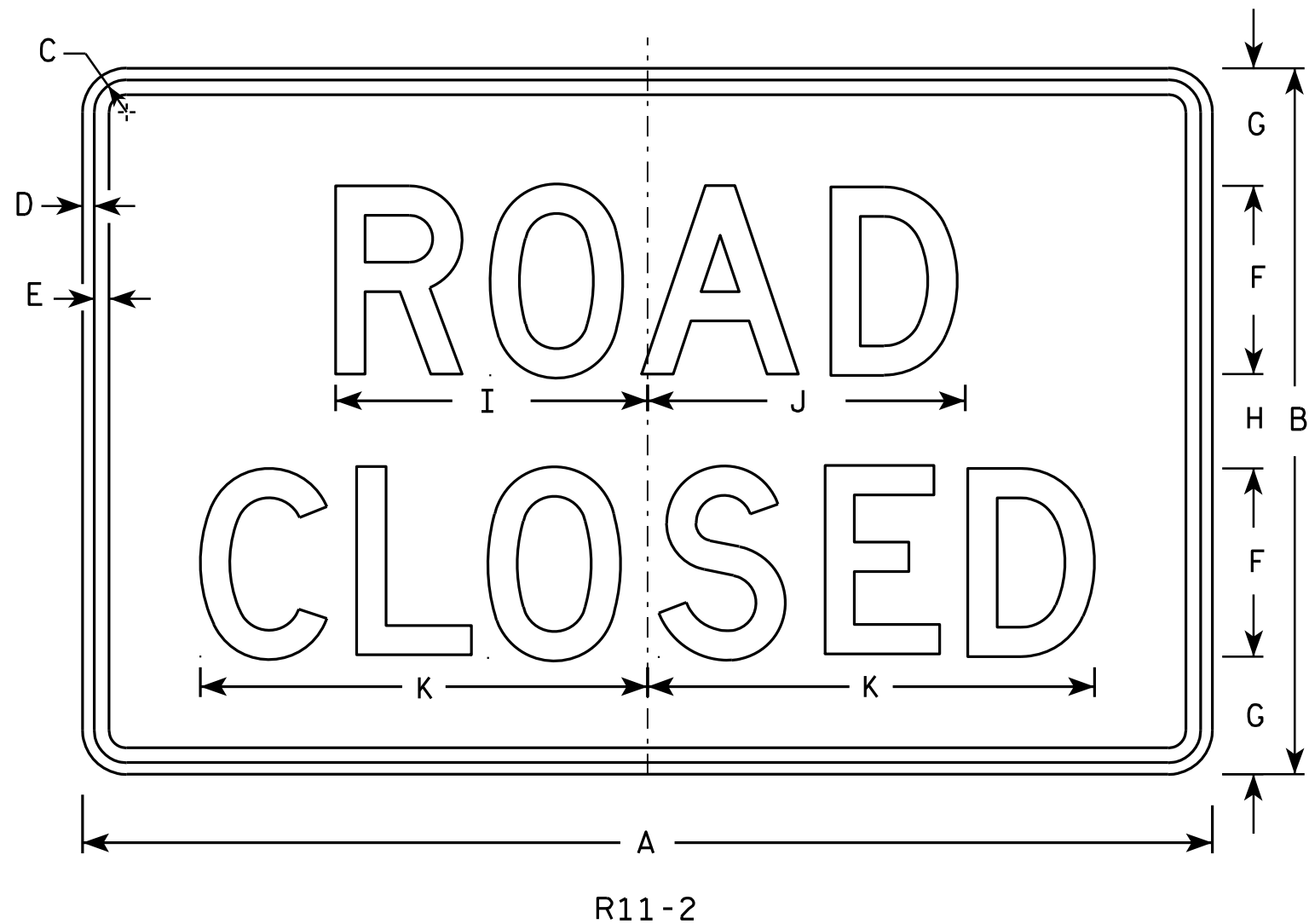
NOTES

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 message and optically balance.

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	24	1 3⁄8	1⁄2	5⁄8	4	5 1⁄2	5	10 3⁄4	2	2 1⁄8	8 3⁄8	4 5⁄8														6.0
2S	60	30	1 3⁄8	1⁄2	5⁄8	6	6 1⁄4	5 1⁄2	16 5⁄8	5	3 3⁄4	13	7 3⁄8														12.5
2M	60	30	1 3⁄8	1⁄2	5⁄8	6	6 1⁄4	5 1⁄2	16 5⁄8	5	3 3⁄4	13	7 3⁄8														12.5
3																											
4																											
5																											

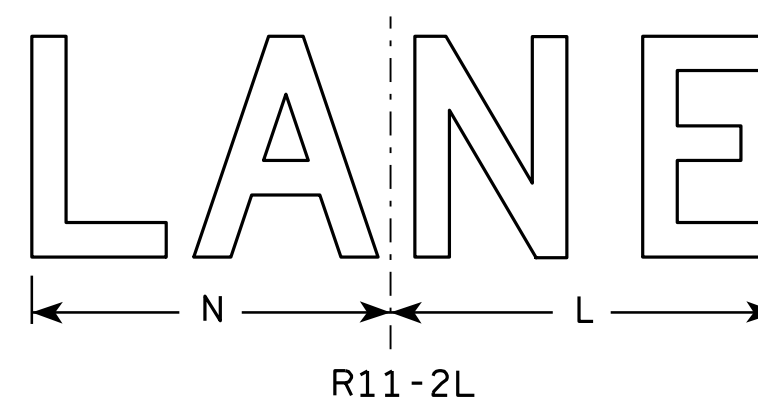
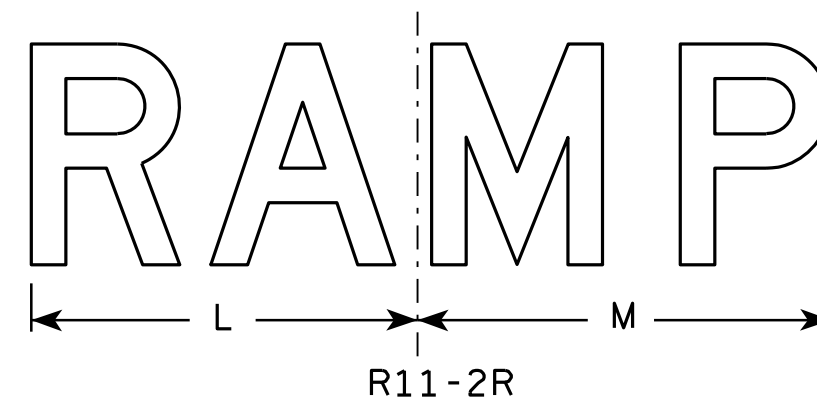
STANDARD SIGN R10-61	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 4/4/11	PLATE NO. R10-61.5

PROJECT NO:	HWY:	COUNTY:	SHEET NO: 176	E
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NOTES

- Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - White
Message - Black
- Message Series - D
- 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.
- Modify the message as required.



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

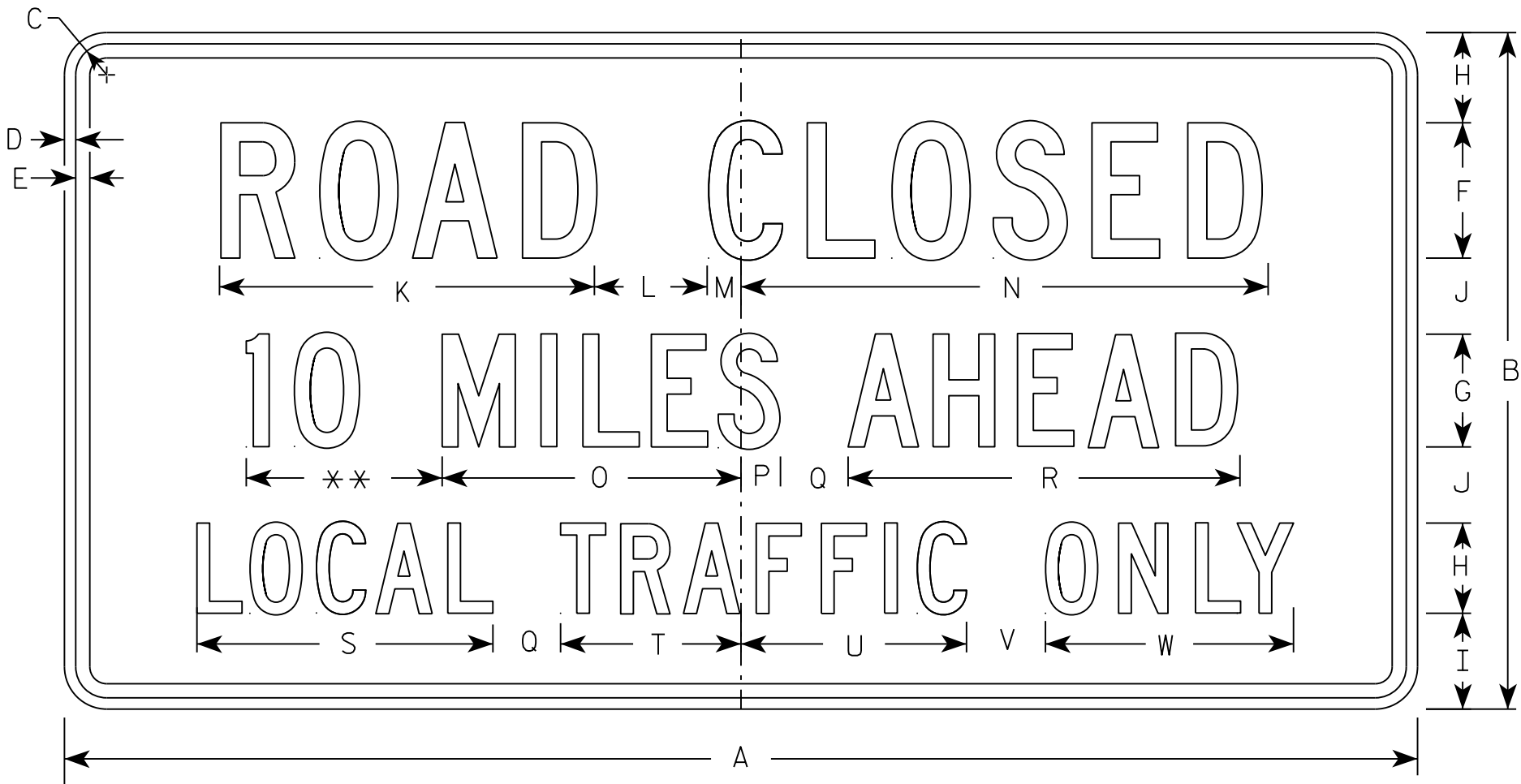
STANDARD SIGN
R11-2

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: 177 E

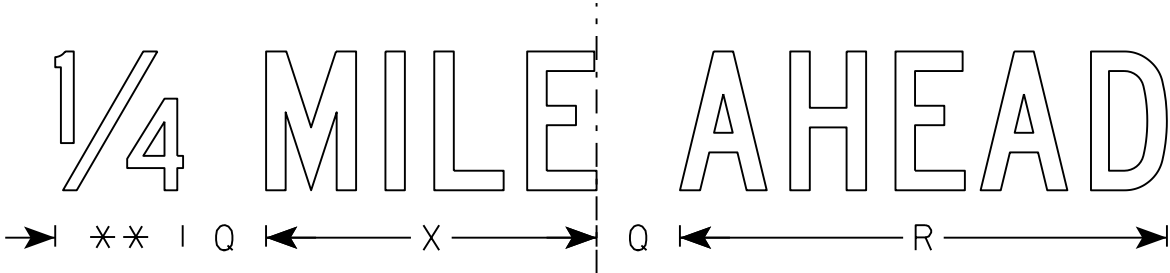
NOTES

- 1. Sign is Type II - Type H Reflective
- 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 to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5

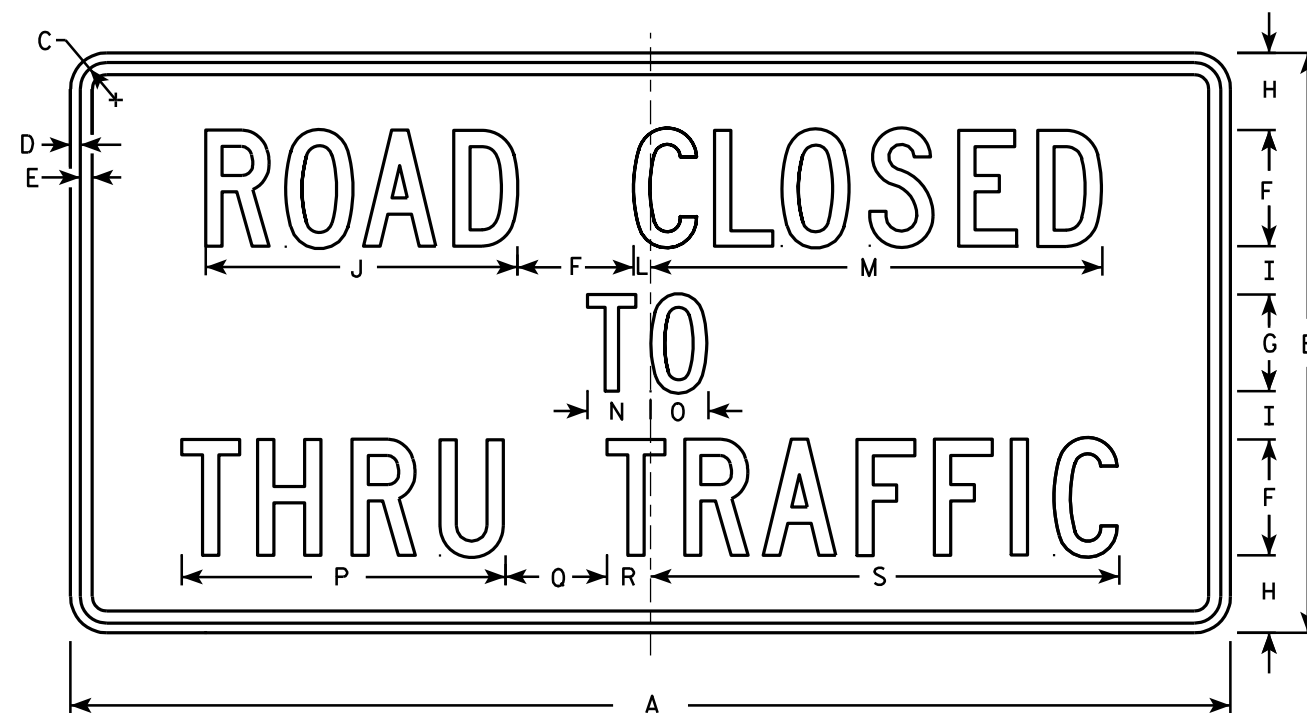


SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3⁄8	1⁄2	5⁄8	4	3	2 1⁄2	2	2	11 1⁄8	3	1 1⁄8	15 1⁄4	8	1 1⁄2	2	10 3⁄4	8 3⁄8	4 3⁄4	6 1⁄2	2	6 3⁄4	7 1⁄8			4.5
2S	60	30	1 3⁄8	1⁄2	5⁄8	6	5	4	4 1⁄4	3 3⁄8	16 5⁄8	5	1 1⁄2	23	13 1⁄4	1 3⁄4	3	17 3⁄8	13 1⁄8	8	10	3 1⁄2	11	11 7⁄8			12.5
2M	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	11 7⁄8			12.5
3																											
4																											
5																											

STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 3/15/17 PLATE NO. R11-3.8



R11-4

NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - White
Message - Black
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3⁄8	½	5⁄8	6	5	4	2 ½	16 ⅛		7⁄8	23 3⁄8	3 ¼	3	16 ¾	5 ¼	2 ¼	24 ¼								12.5
2M	60	30	1 3⁄8	½	5⁄8	6	5	4	2 ½	16 ⅛		7⁄8	23 3⁄8	3 ¼	3	16 ¾	5 ¼	2 ¼	24 ¼								12.5
3																											
4																											
5																											

STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

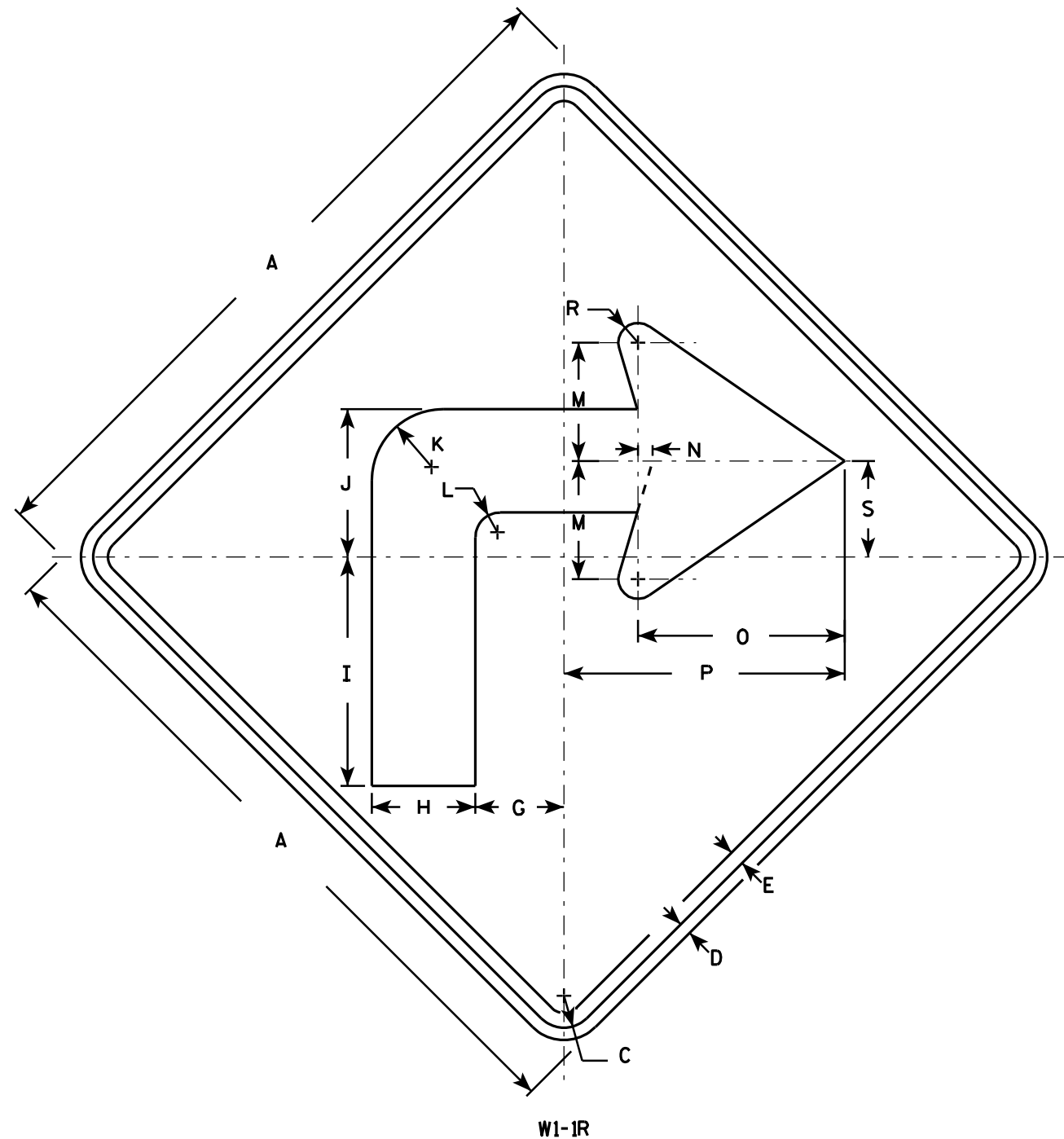
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 179

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. W1-1L is the same as W1-1R 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		1 1/8	3/8	1/2		3	3 1/2	7 3/4	5	2 1/2	7/8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
2S	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
2M	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
3	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0

STANDARD SIGN

W1-1

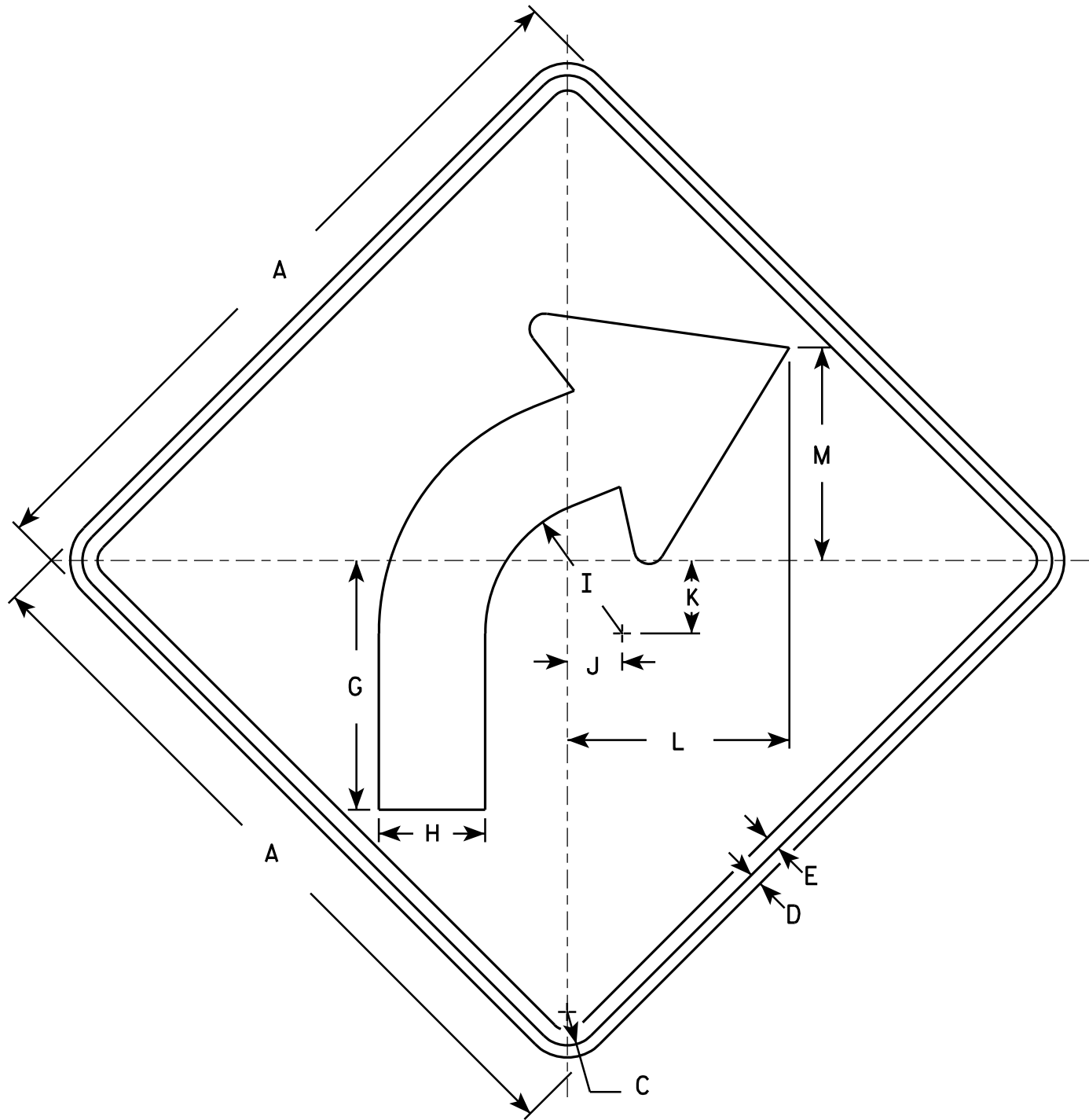
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

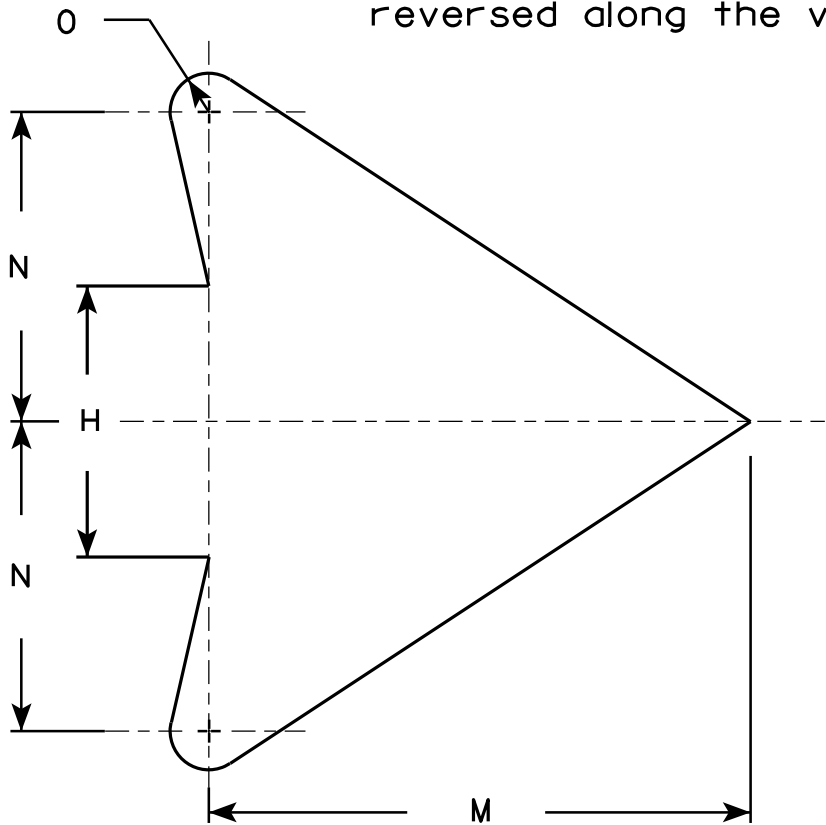
DATE 5/15/12 PLATE NO. W1-1.11

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

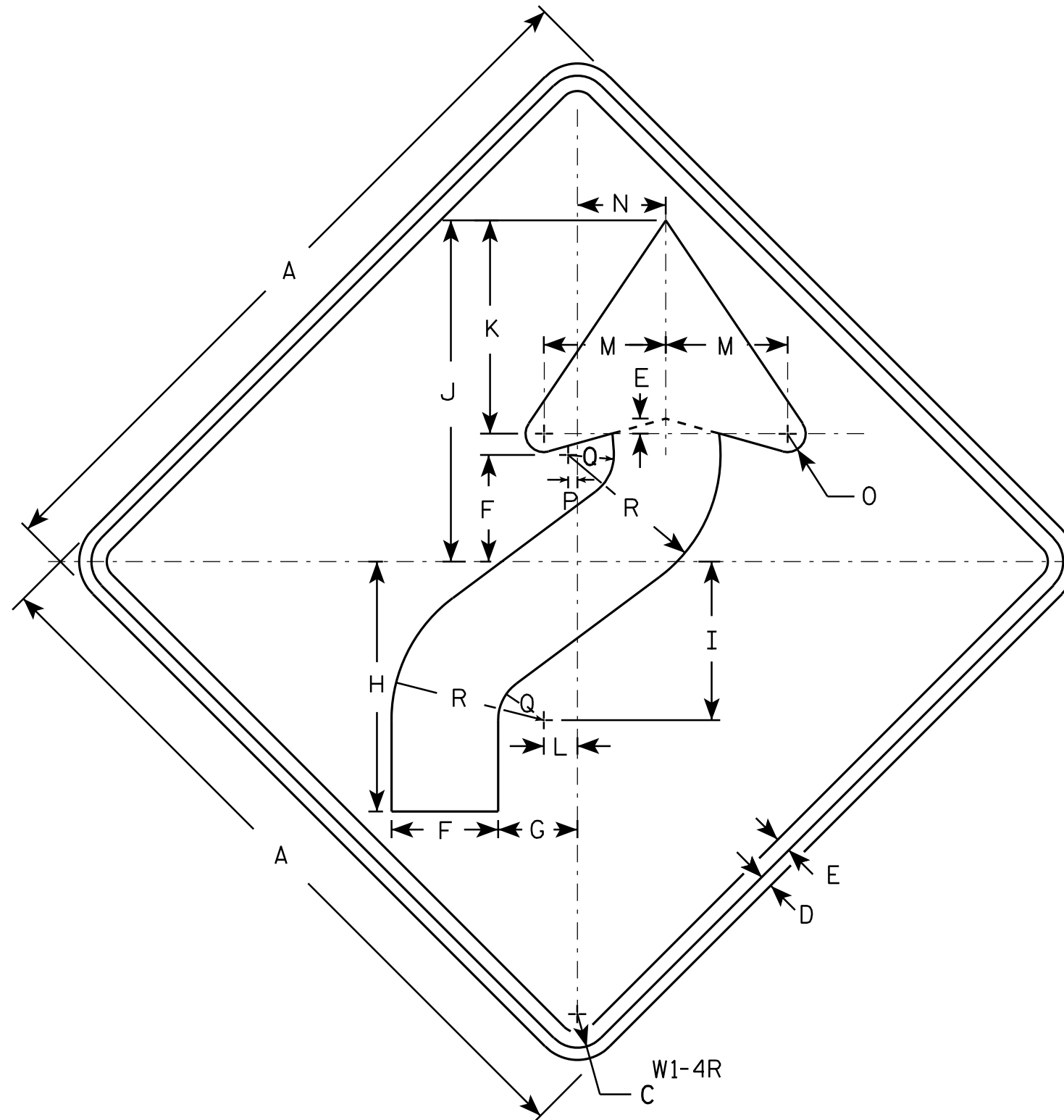
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	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



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. W1-4L is the same as W1-4R 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	24		1 1/8	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	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
3	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
4	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
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

W1 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

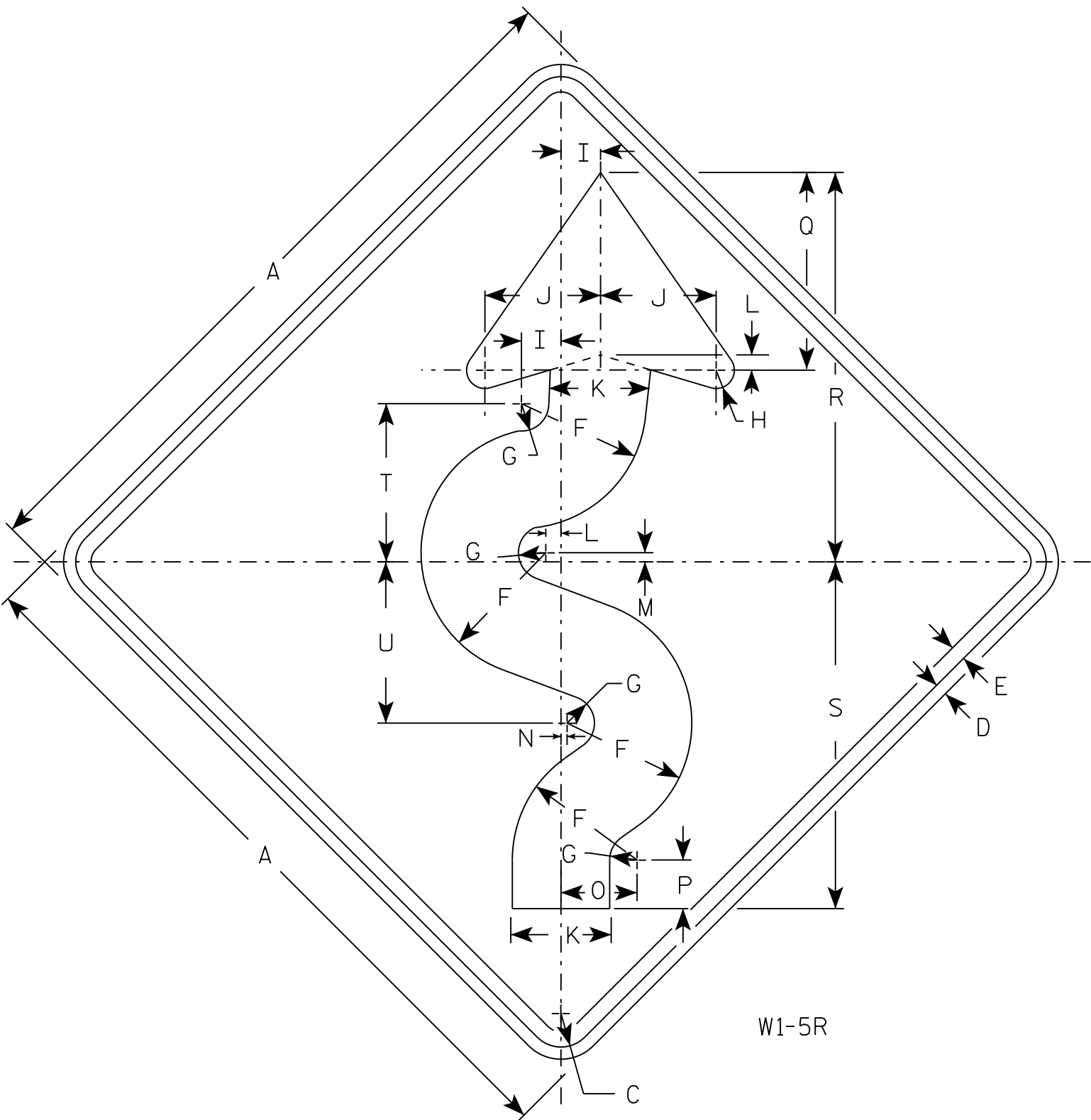
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 183

E



NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. W1-5L is the same as W1-5R except the arrow is reversed along the vertical centerline.
- 4. If used with W13-1 of 30 MPH or less, use 36" sign for Size 2S.

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	4 1/8	7/8	5/8	1 1/4	3 3/4	3 1/4	1/2	1/4	1/8	2 1/2	1 5/8	6 1/2	12 3/4	11 3/8	5 1/4	5 1/4						4.0
2S	30		1 3/8	1/2	5/8	5 1/8	1 1/8	3/4	1 5/8	4 3/4	4 1/8	5/8	3/8	1/4	3 1/8	2	8 1/8	16	14 1/4	6 1/2	6 5/8						6.25
2M	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
3	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
4	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
5	48		2 1/4	3/4	1	8 1/4	1 3/4	1 1/4	2 1/2	7 1/2	6 1/2	1	1/2	3/8	5	3 1/4	13	25 1/2	22 3/4	10 3/8	10 1/2						16.0

STANDARD SIGN
W1-5

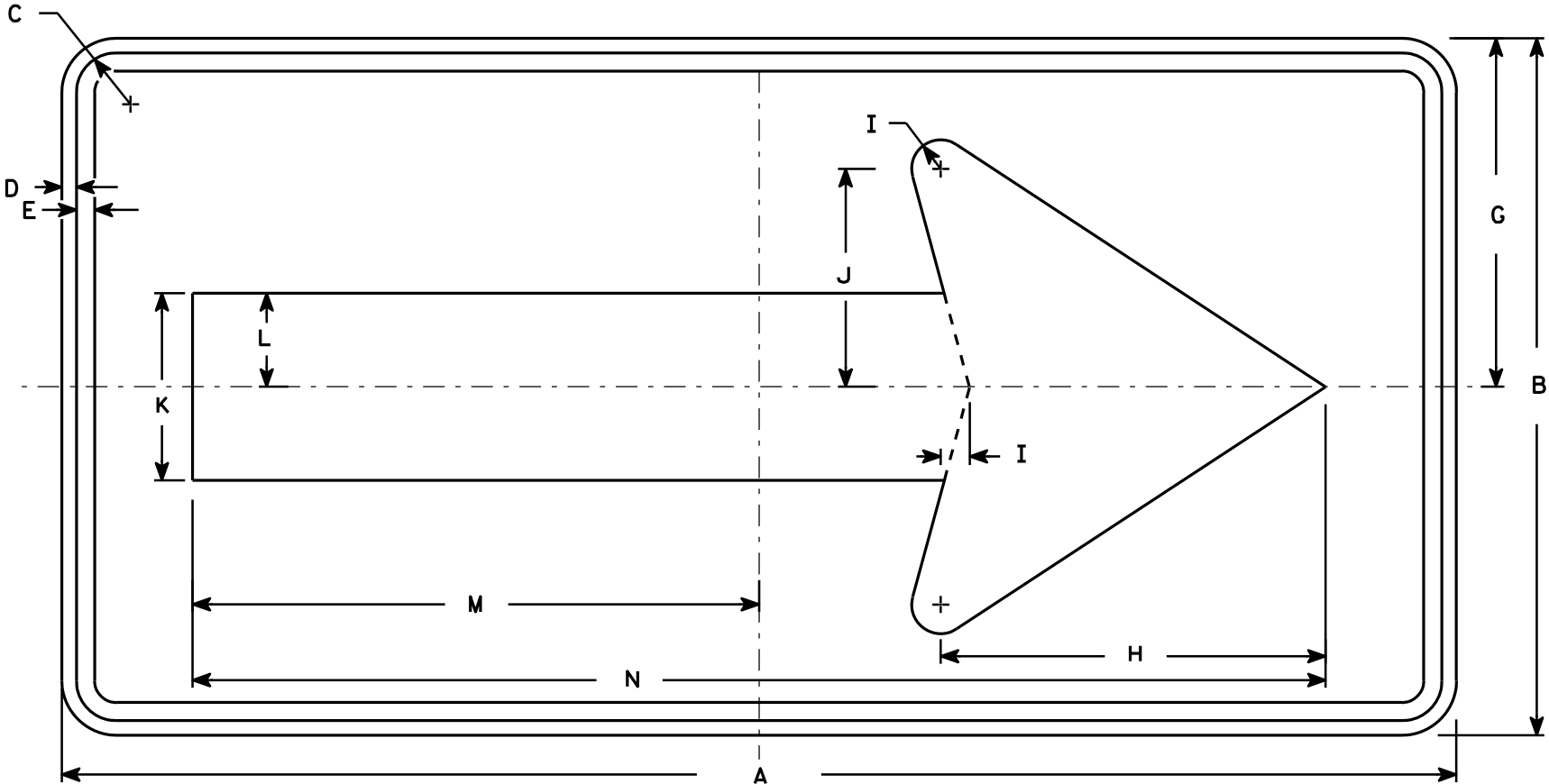
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 8/1/16 PLATE NO. W1-5.9
184

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.



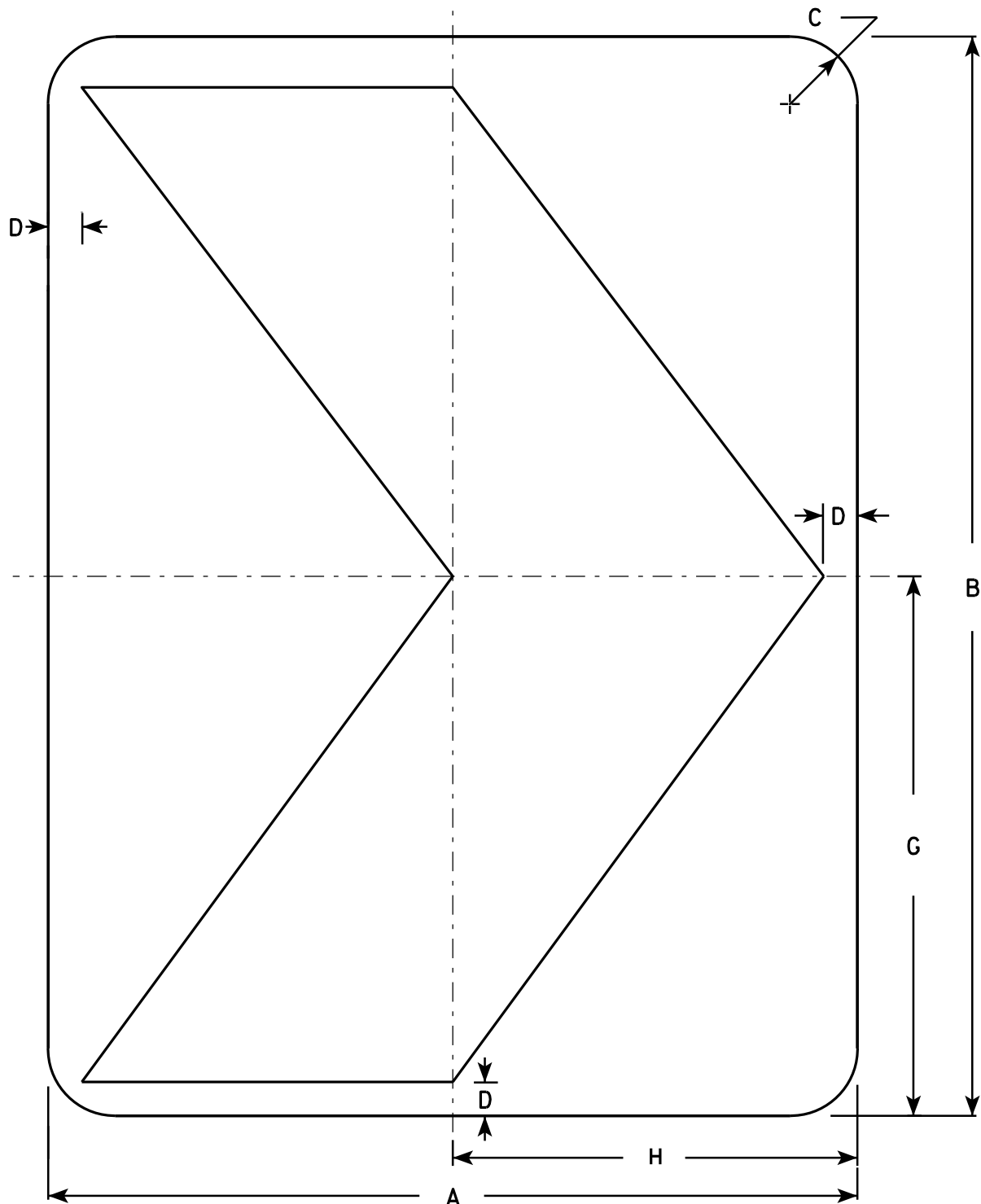
W1-6

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	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W1-6.8



W1-8

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	12	18	1 1/2	1/2			9	6																			1.5
2S	18	24	1 1/2	3/4			12	9																			3.0
2M	18	24	1 1/2	3/4			12	9																			3.0
3	24	30	1 1/2	1			15	12																			5.0
4	30	36	1 7/8	1 1/4			18	15																			7.5
5	36	48	2 1/4	1 1/2			24	18																			12.0

STANDARD SIGN

W1-8

WISCONSIN DEPT OF TRANSPORTATION

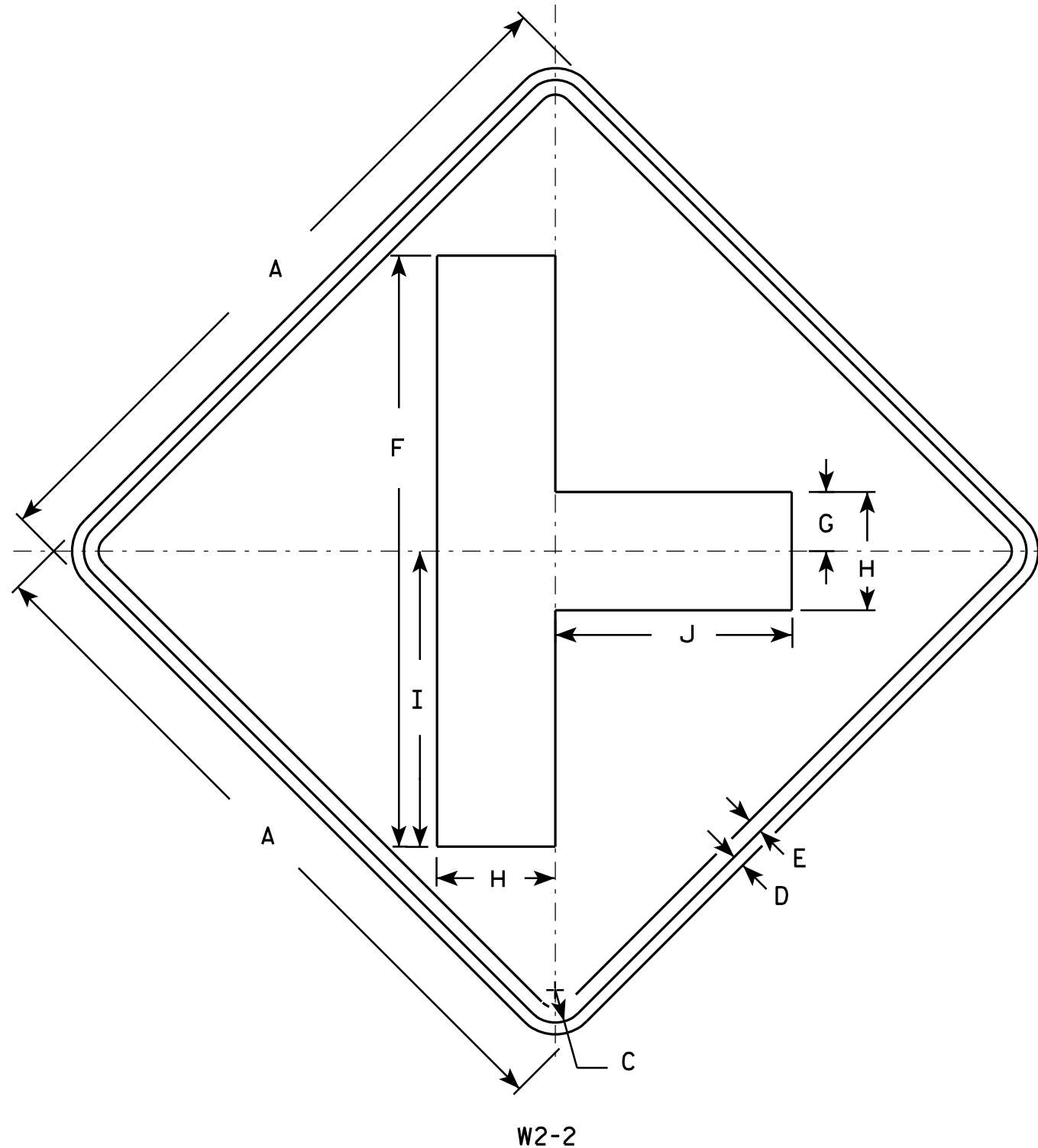
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-8.6

PROJECT NO:

SHEET NO: 186

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.

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	20	2	4	10	8																	4.0
2S	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
2M	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
3	36		1 5/8	5/8	3/4	30	3	6	15	12																	9.0
4	48		2 1/4	3/4	1	40	4	8	20	16																	16.0
5																											

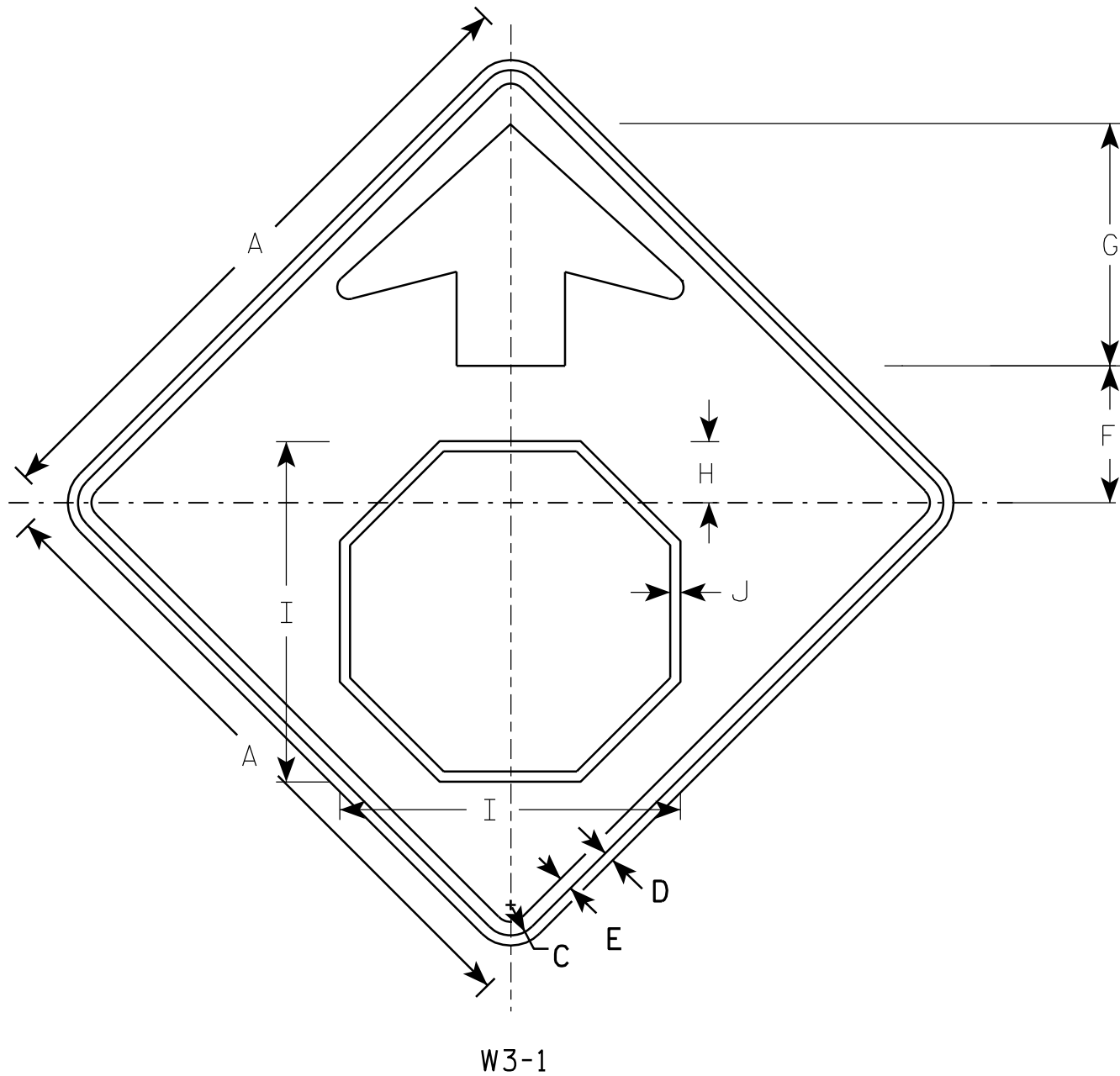
STANDARD SIGN W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

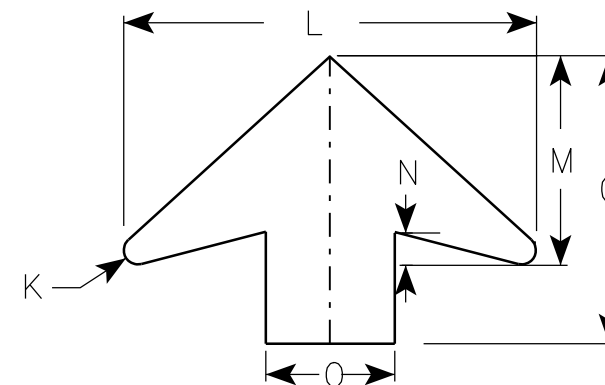
DATE 5/29/12 PLATE NO. W2-2.6

PROJECT NO: HWY: COUNTY: SHEET NO: 187 E



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

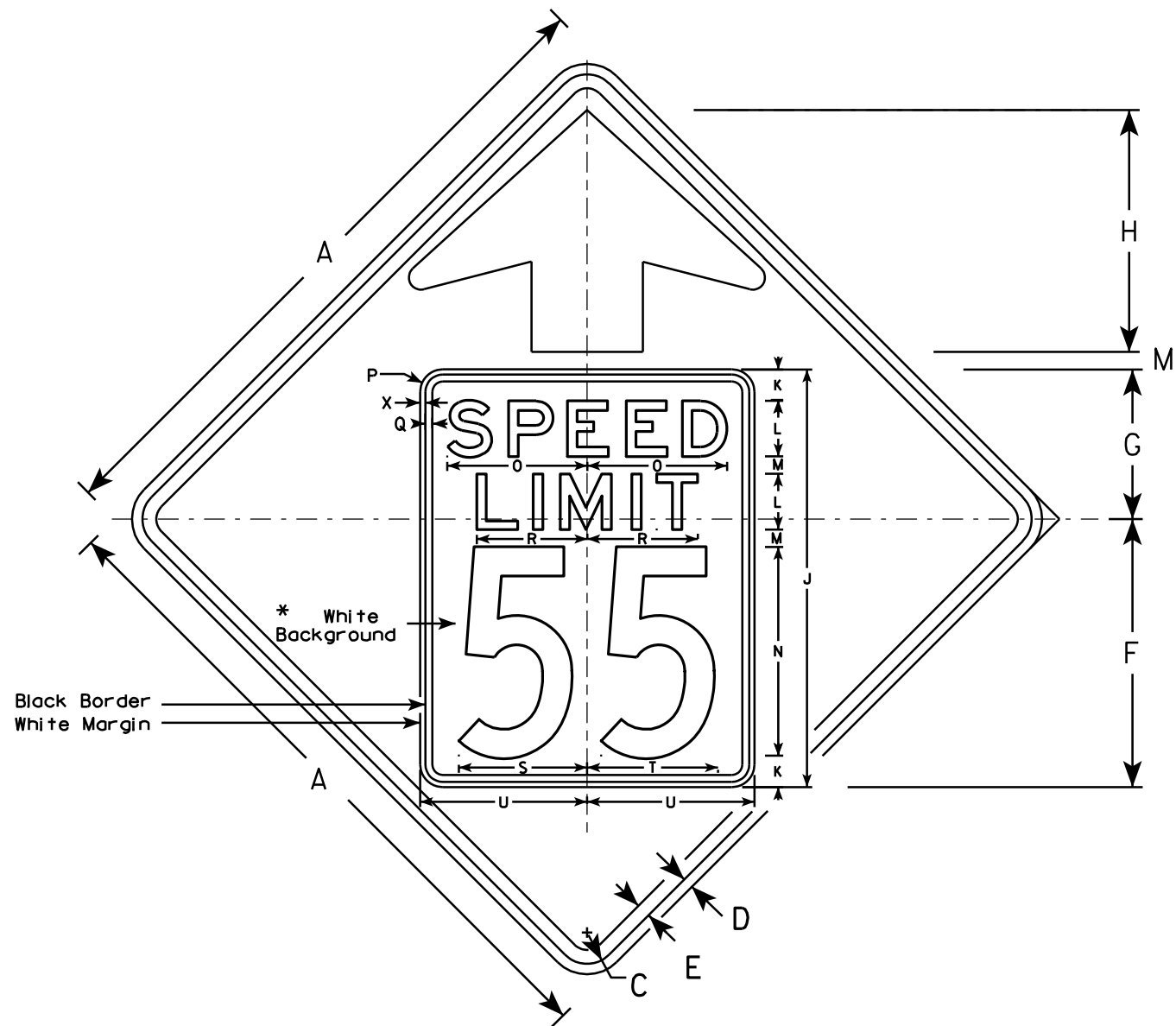
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 188

E

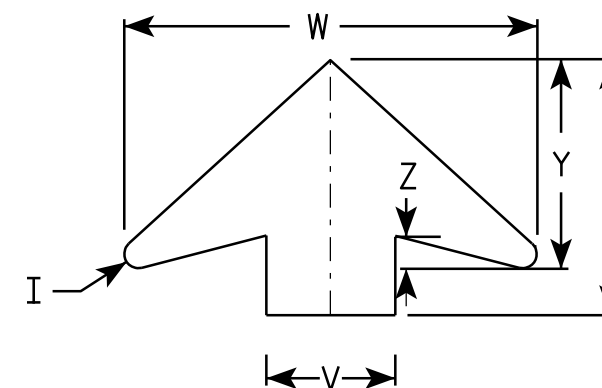


W3-5

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 for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White 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																											
2S	36		1 5⁄8	5⁄8	3⁄4	14 1⁄2	9 1⁄2	11 1⁄2	5⁄8	24	2	3	1	12	7 1⁄8	1 1⁄2	3⁄8	5 3⁄4	7 1⁄4	7 1⁄8	9	6	19 1⁄4	3⁄8	9 3⁄4	1 5⁄8	9.0
2M	36		1 5⁄8	5⁄8	3⁄4	14 1⁄2	9 1⁄2	11 1⁄2	5⁄8	24	2	3	1	12	7 1⁄8	1 1⁄2	3⁄8	5 3⁄4	7 1⁄4	7 1⁄8	9	6	19 1⁄4	3⁄8	9 3⁄4	1 5⁄8	9.0
3	36		1 5⁄8	5⁄8	3⁄4	14 1⁄2	9 1⁄2	11 1⁄2	5⁄8	24	2	3	1	12	7 1⁄8	1 1⁄2	3⁄8	5 3⁄4	7 1⁄4	7 1⁄8	9	6	19 1⁄4	3⁄8	9 3⁄4	1 5⁄8	9.0
4	48		2 1⁄4	3⁄4	1	19 1⁄4	10 3⁄4	17 3⁄8	7⁄8	30	2 1⁄4	4	1 1⁄4	15	10	1 5⁄8	1⁄2	8	9 1⁄4	9 3⁄8	12	8	25 5⁄8	3⁄8	13	2	16.0
5	48		2 1⁄4	3⁄4	1	19 1⁄4	10 3⁄4	17 3⁄8	7⁄8	30	2 1⁄4	4	1 1⁄4	15	10	1 5⁄8	1⁄2	8	9 1⁄4	9 3⁄8	12	8	25 5⁄8	3⁄8	13	2	16.0

STANDARD SIGN

W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

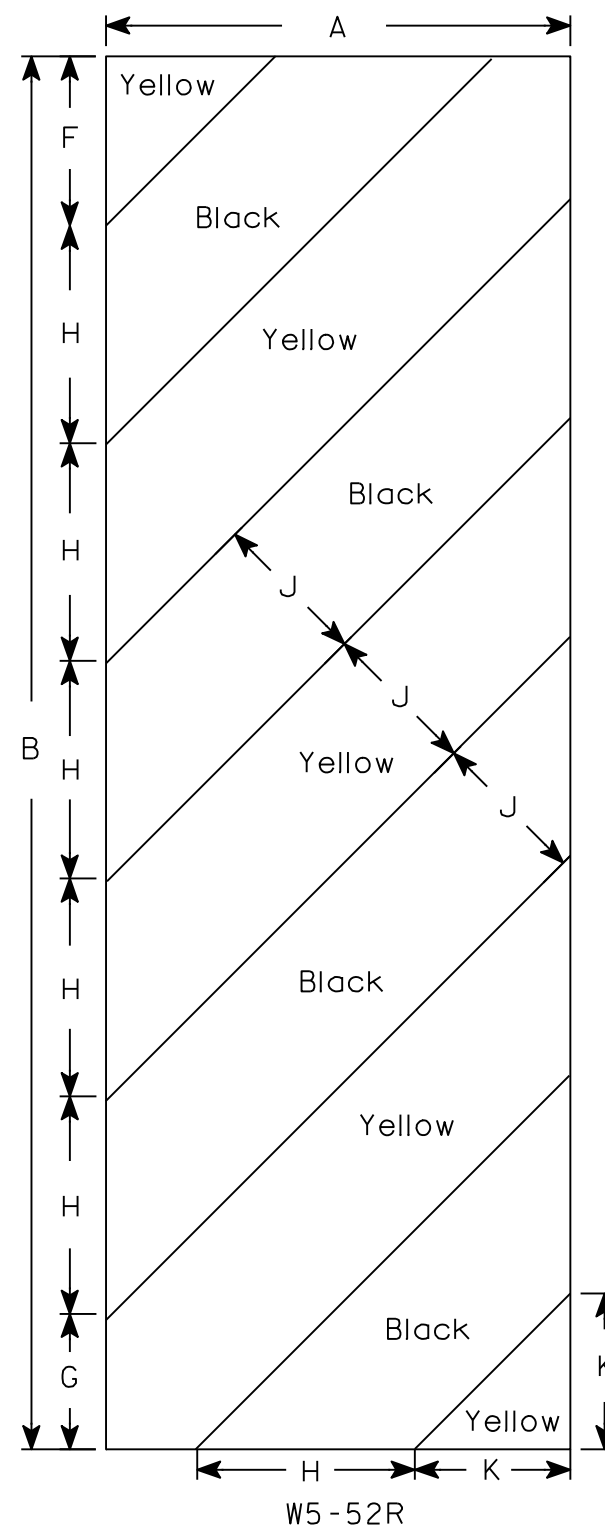
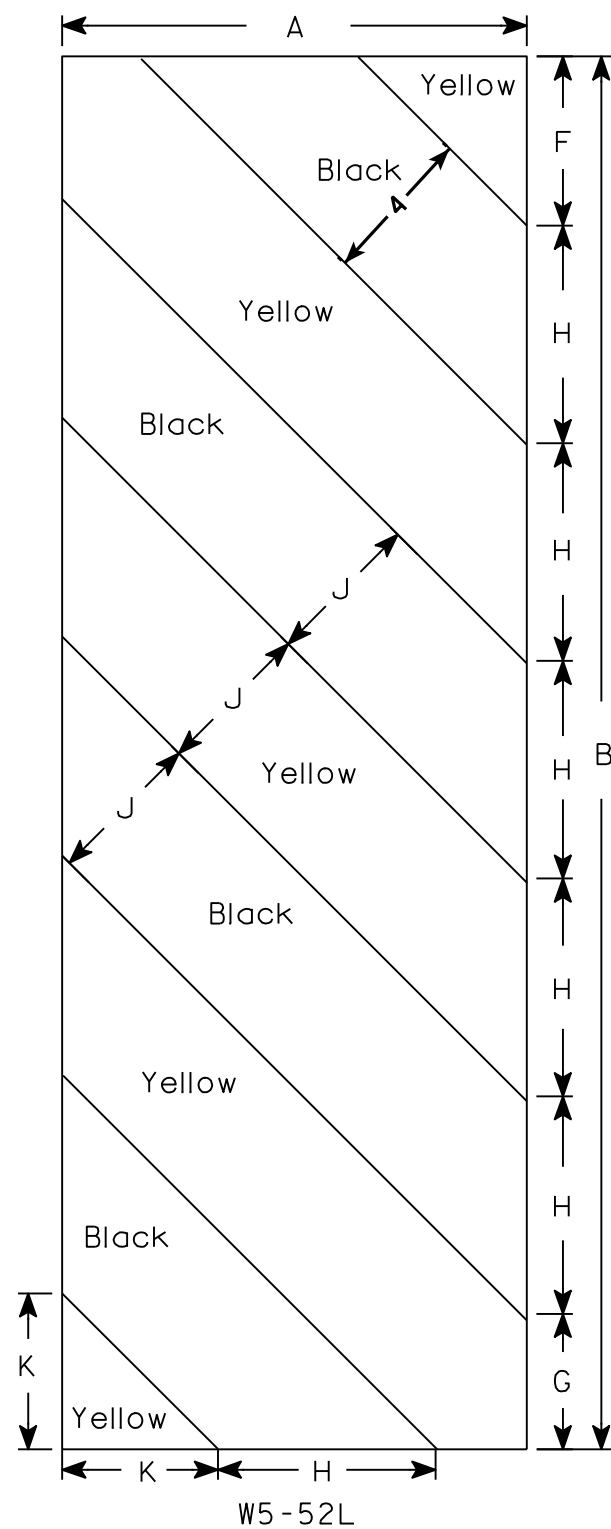
DATE 5/29/12

PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 189

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. Alternate colors of stripes as shown.

[illegible]

STANDARD SIGN
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 5/29/12 PLATE NO. W5-52.9

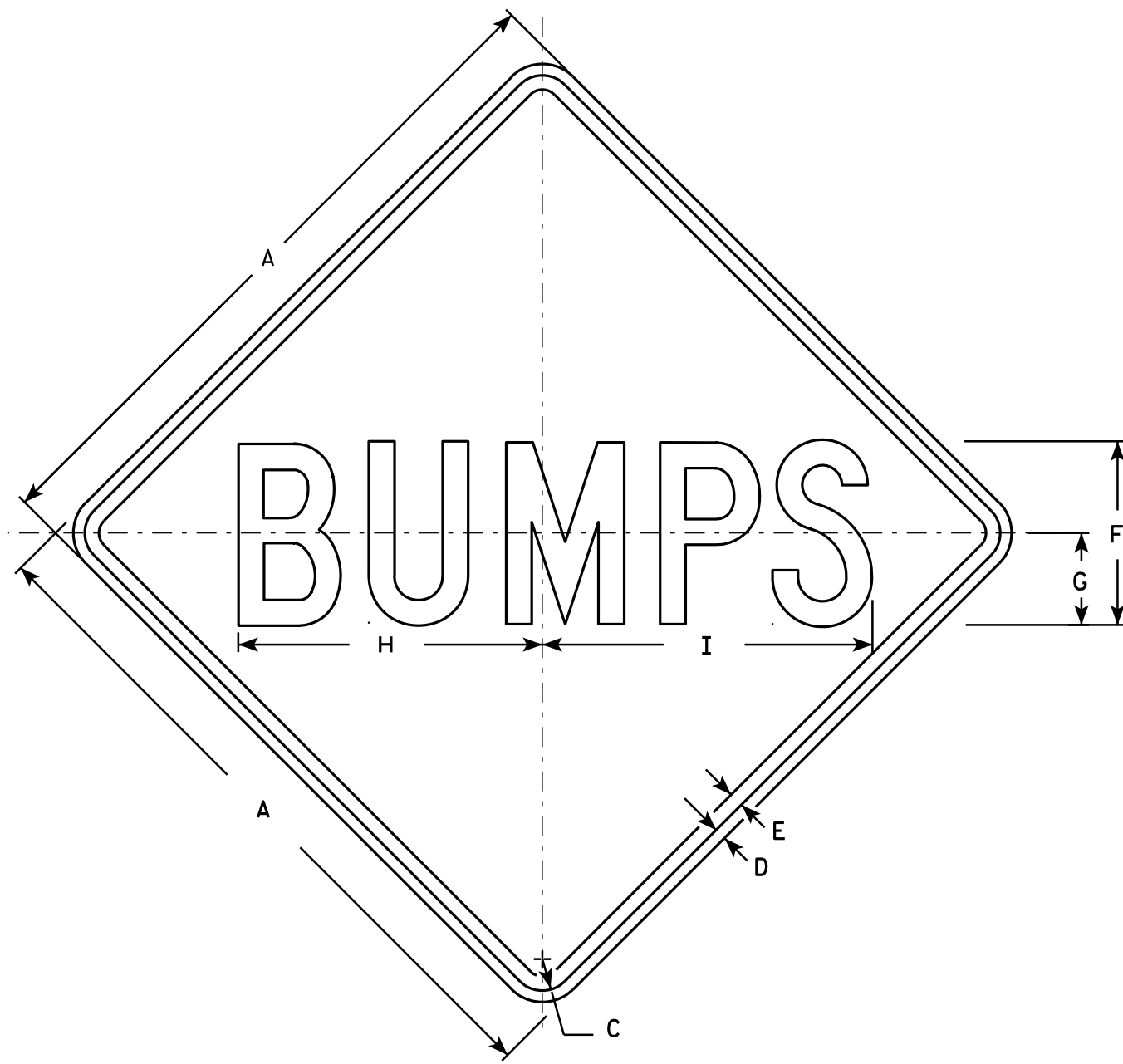
PROJECT NO:

HWY:

COUNTY:

SHEET NO: 190

E



W8-1A

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.

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	Areq. sq. ft.
1	24		1 1/8	3/8	1/2	6	3	10	10 3/4																		4.0
2S	30		1 3/8	1/2	5/8	8	4	13 1/4	14 3/8																		6.25
2M	36		1 5/8	5/8	3/4	9	4 1/2	15	16 1/4																		9.0
3	36		1 5/8	5/8	3/4	9	4 1/2	15	16 1/4																		9.0
4	36		1 5/8	5/8	3/4	9	4 1/2	15	16 1/4																		9.0
5	48		2 1/4	3/4	1	12	6	19 7/8	21 1/2																		16.0

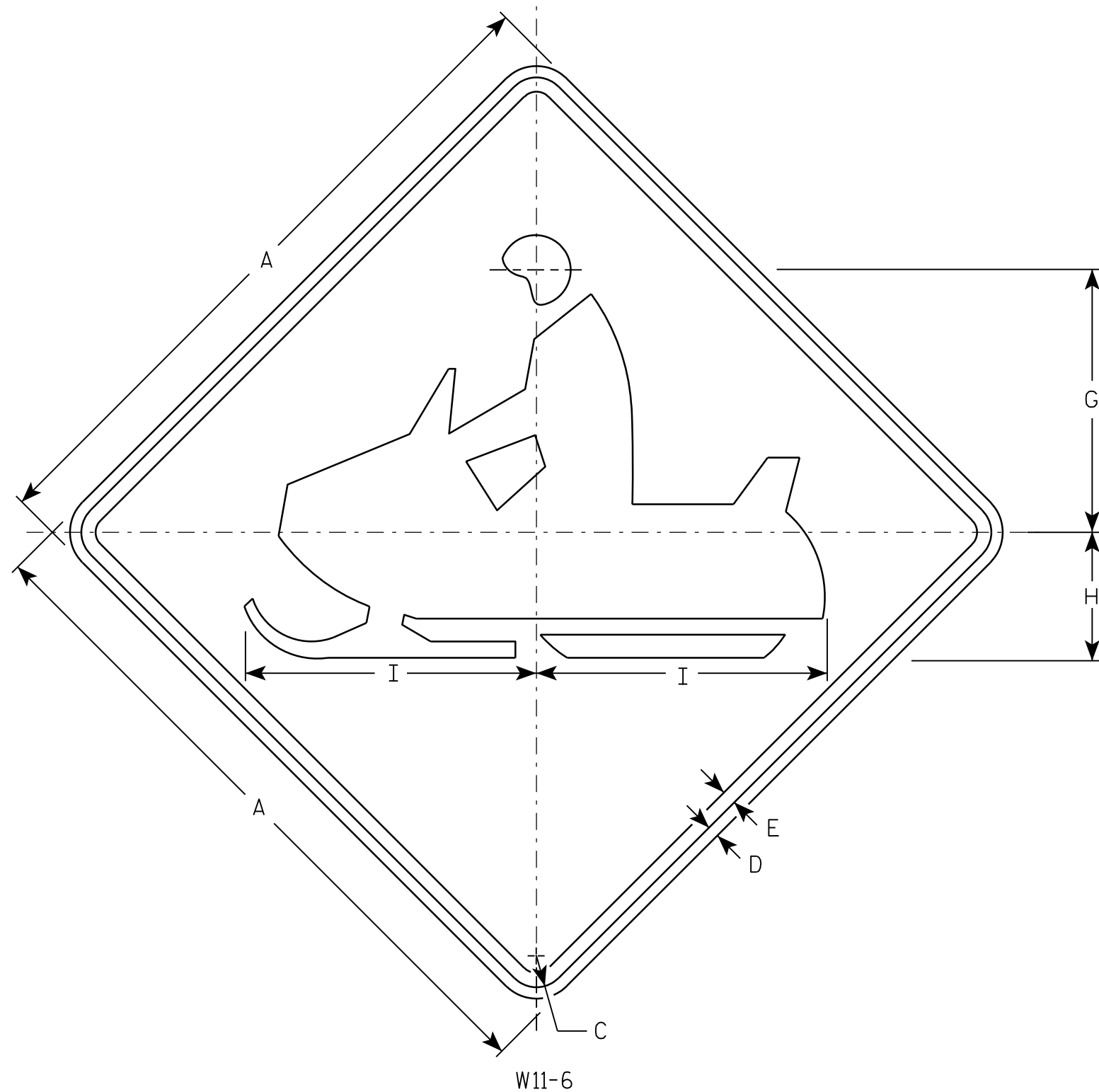
STANDARD SIGN

W8-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/13/13 PLATE NO. W8-1A.6



W11-6

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. 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		9 1/2	4 1/2	10 1/4																		4.0
2S	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
2M	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
3	36		1 5/8	5/8	3/4		14 1/8	6 3/4	15 1/4																		9.0
4	48		2 1/4	3/4	1		19	9	20 1/2																		16.0
5																											

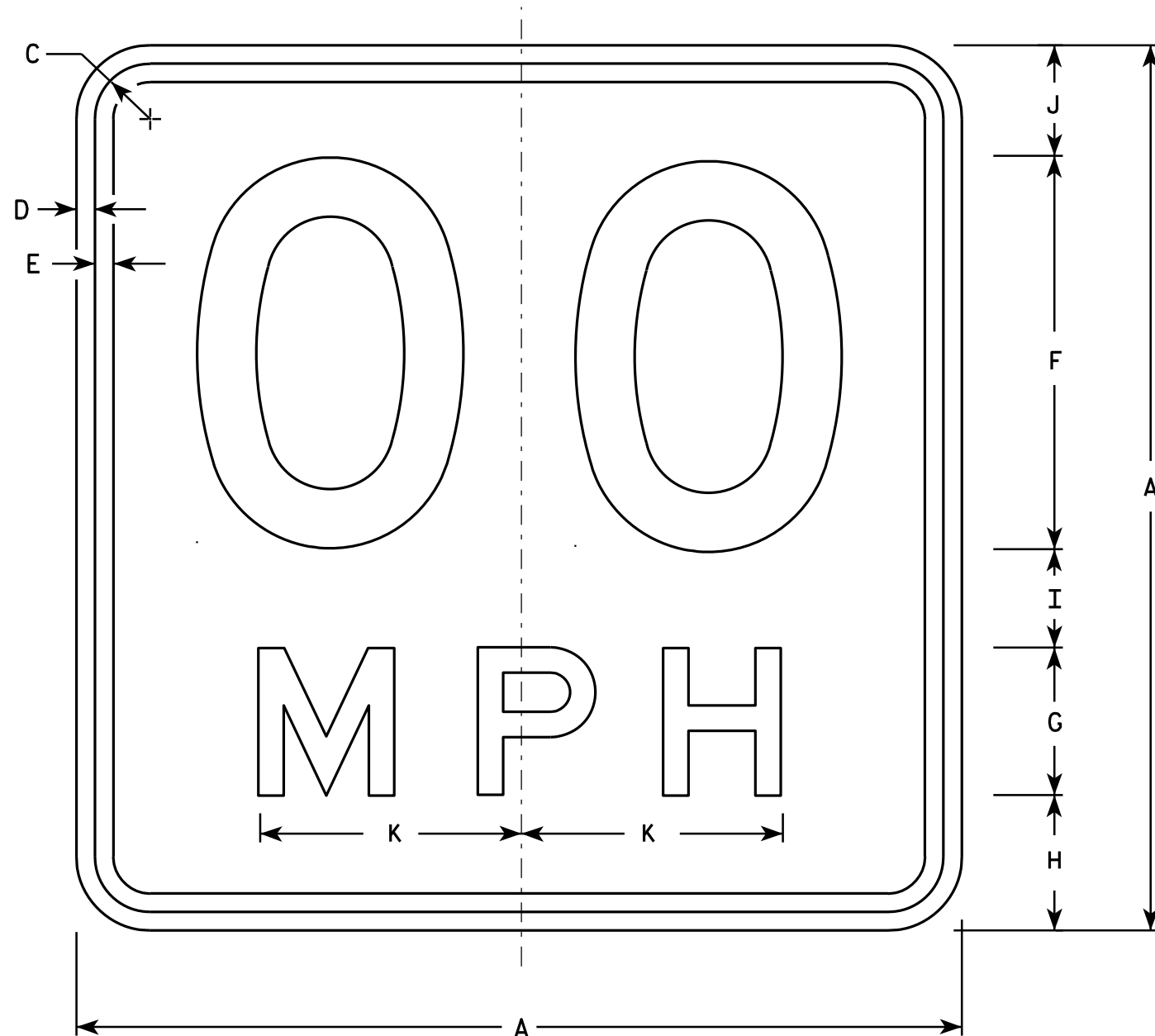
STANDARD SIGN
W11-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R. Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-6.8

PROJECT NO: HWY: COUNTY: SHEET NO: 192 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 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

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.

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:

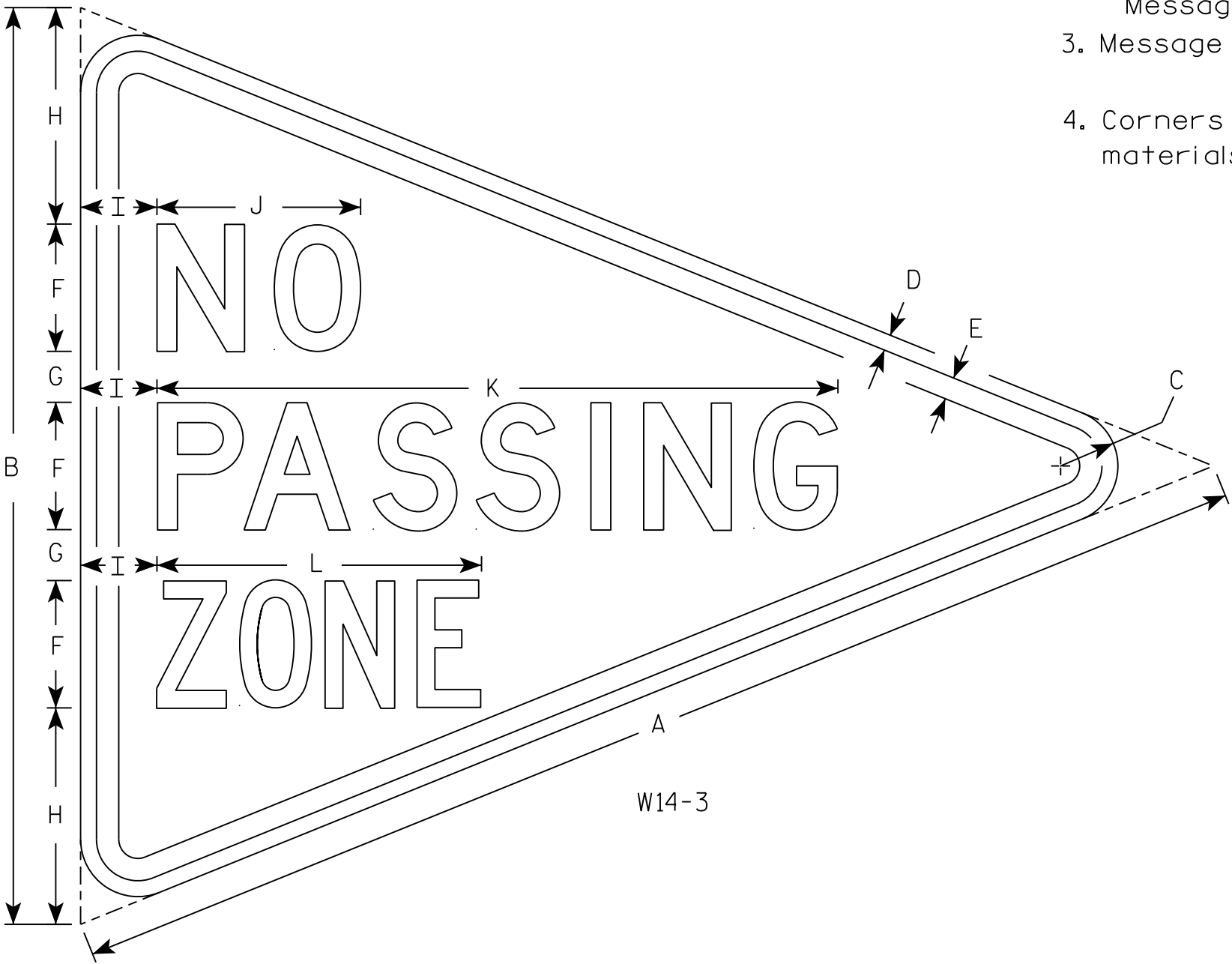
COUNTY:

SHEET NO: 193

E

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. Message Series - Lines 1 and 2 are Series D.
Line 3 is series C.
- 4. Corners and borders shall be rounded on all base materials for this sign.



7

7

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	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO: 194

E

STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

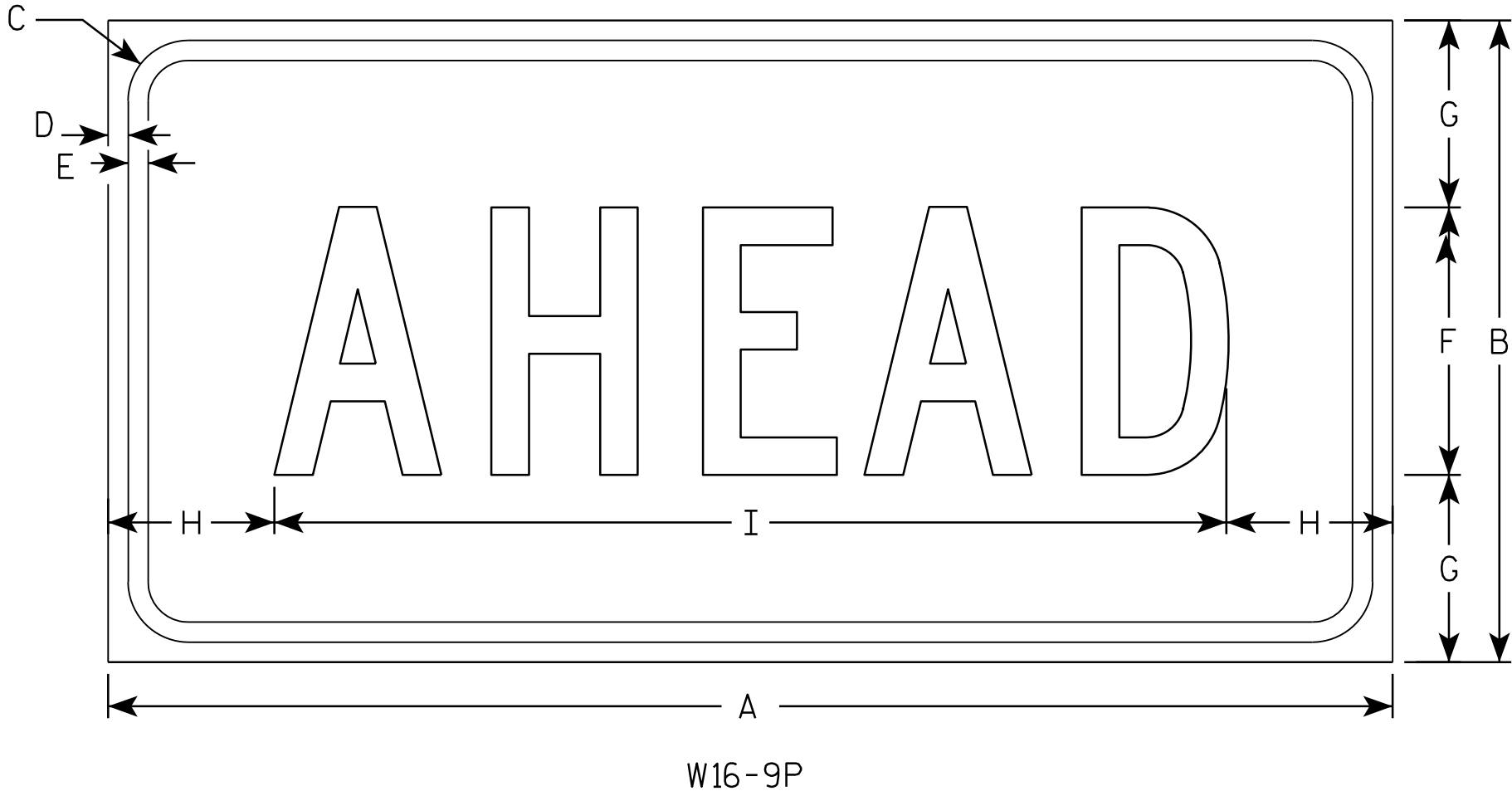
DATE 3/21/17 PLATE NO. W14-3.10

7

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. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
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																											

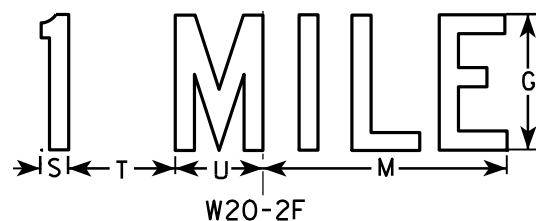
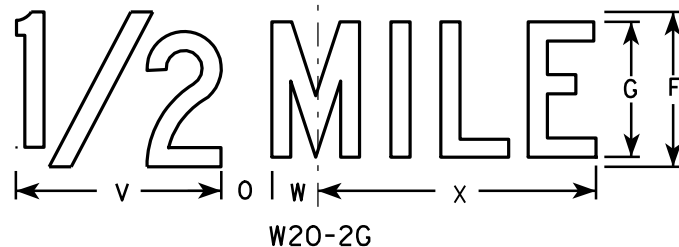
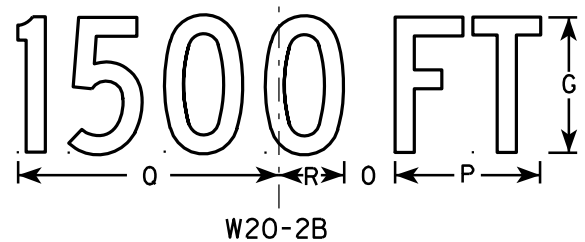
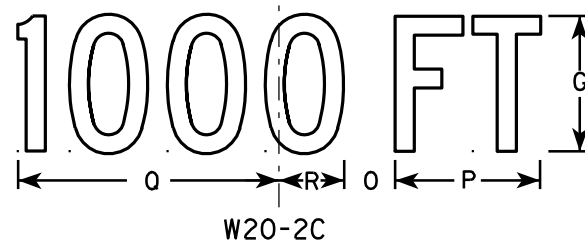
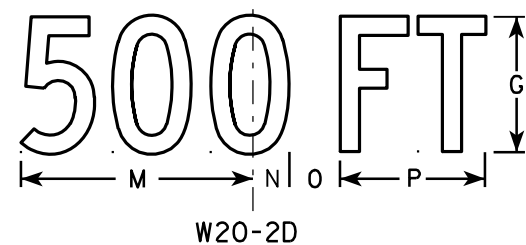
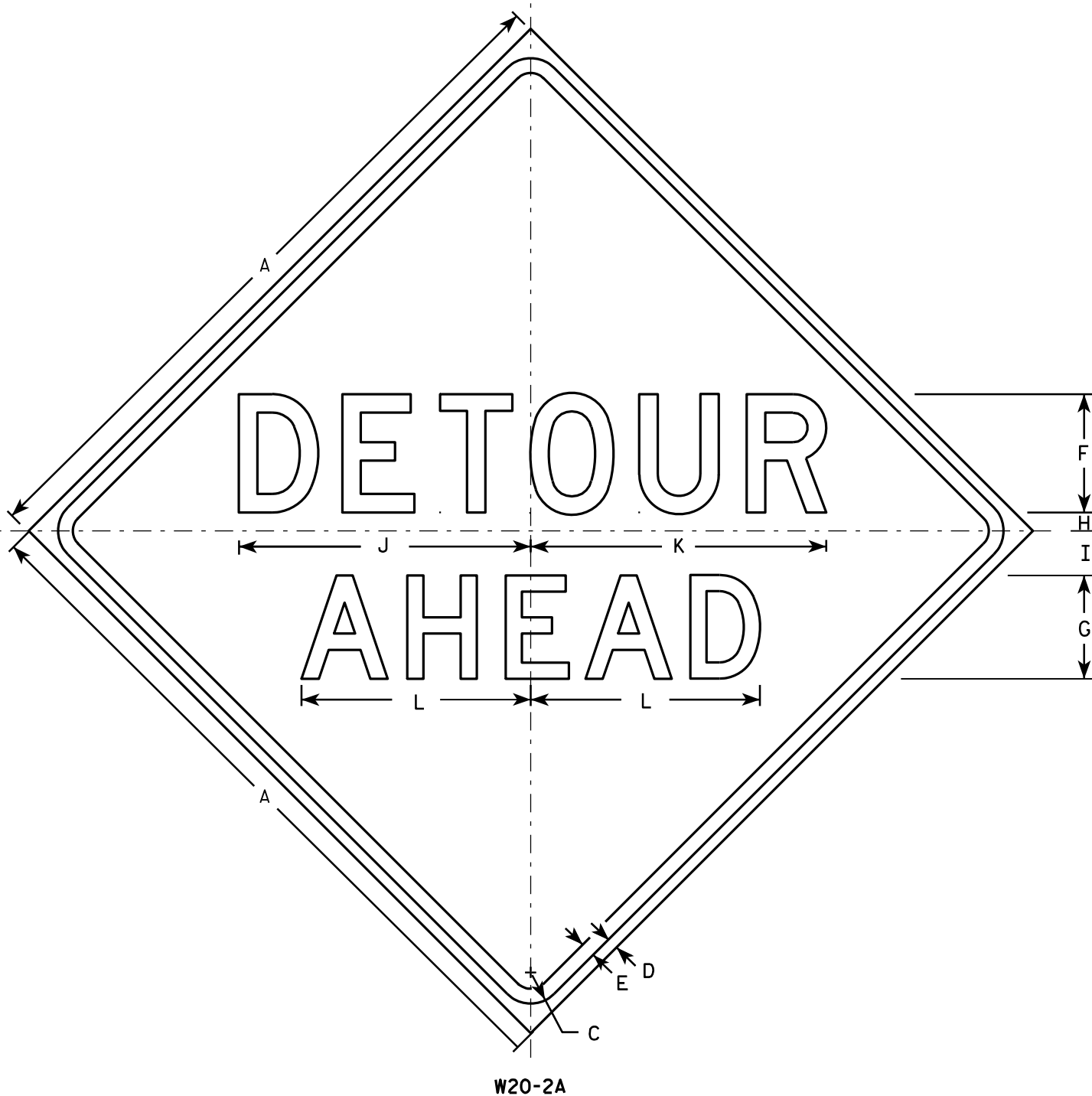
STANDARD SIGN

W16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 12/28/10 PLATE NO. W16-9P.6



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. 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	Q	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

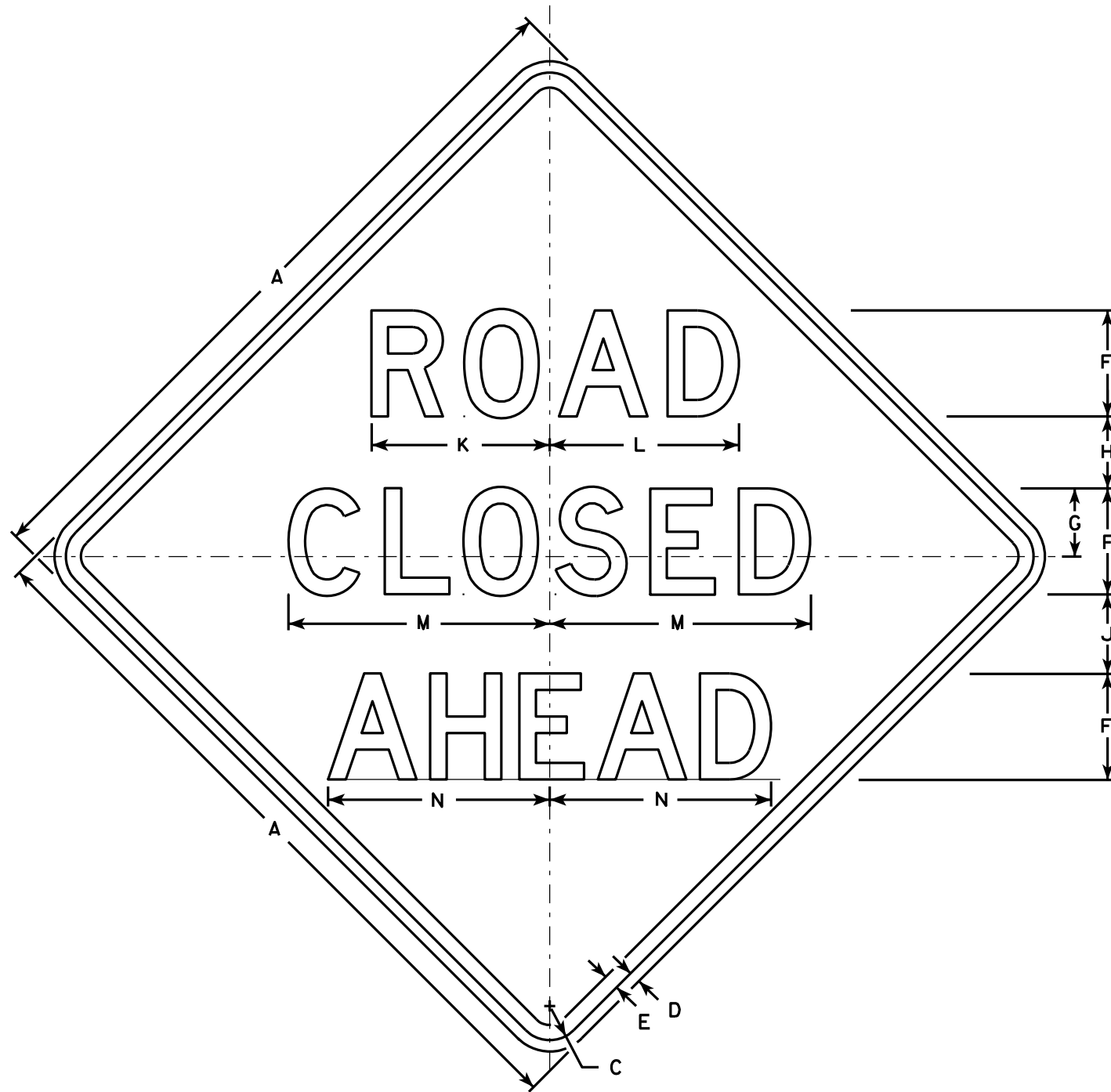
PROJECT NO:

HWY:

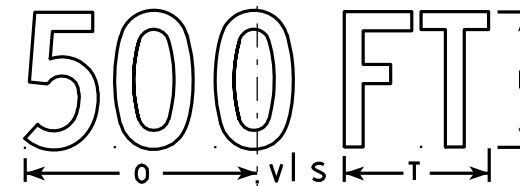
COUNTY:

SHEET NO: 196

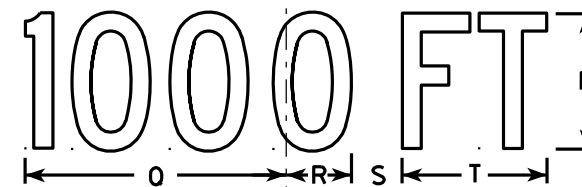
E



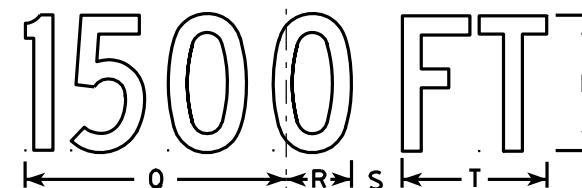
W20-3A



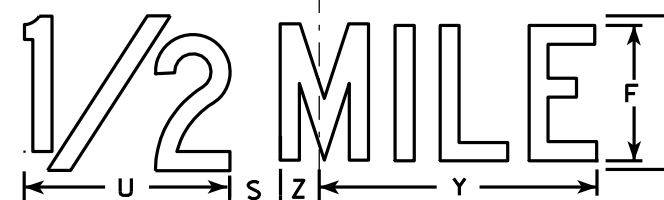
W20-3D



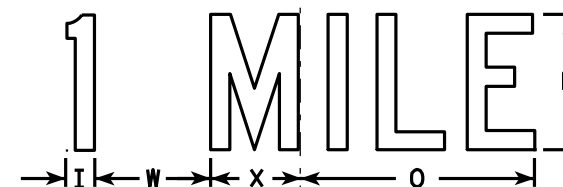
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO:

HWY:

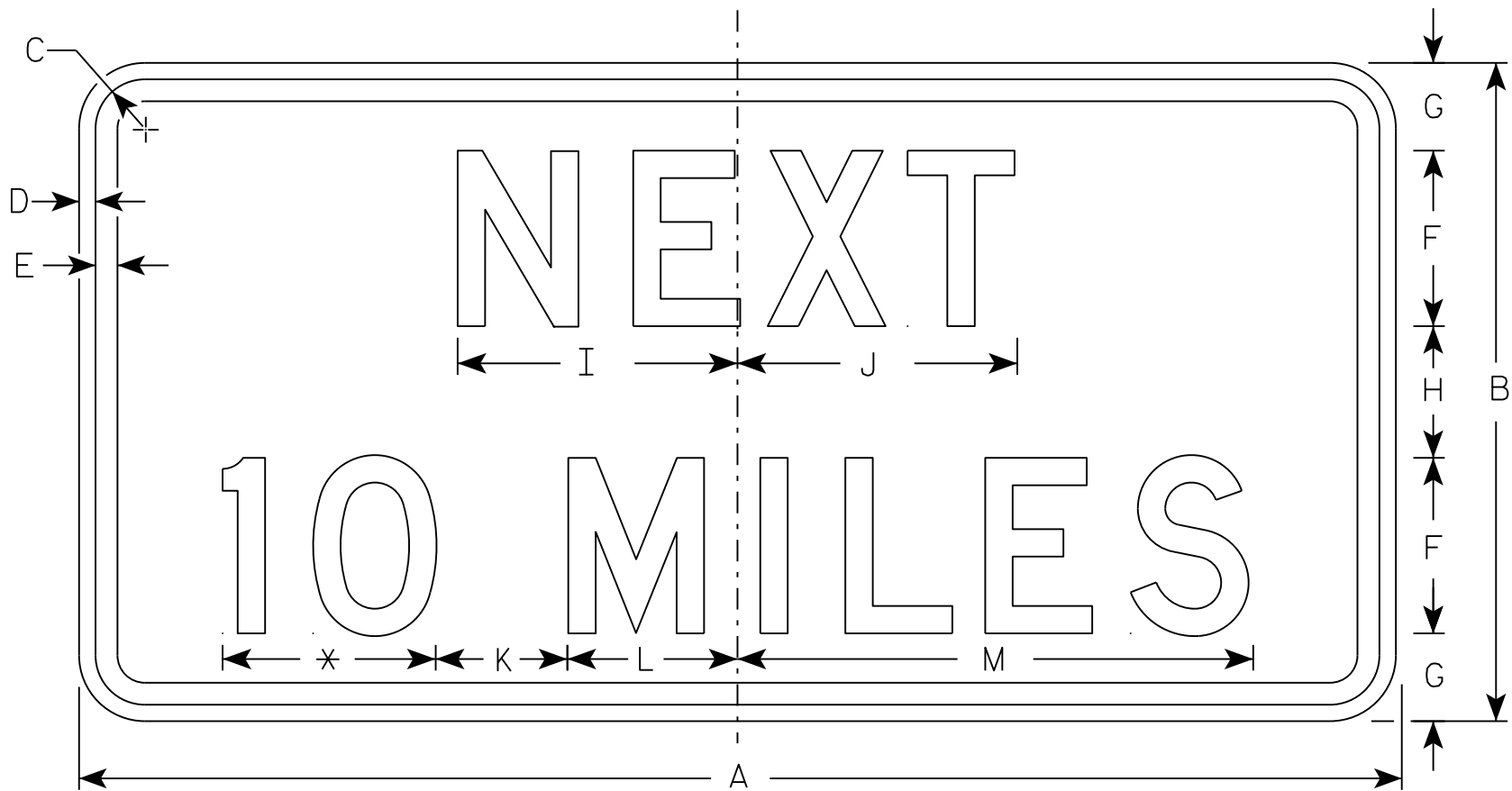
COUNTY:

SHEET NO: 197

E

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
 - Background - Yellow
 - Message - Black
- 3. Message Series - D
- 4. Corners and borders shall be rounded.
- 5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance.



W57-51

* 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	24	12	1 1/8	3/8	3/8	3	1 3/4	2 1/2	5	5 1/8	3	2 3/4	9 5/8														2.0
2S	30	15	1 1/8	3/8	1/2	4	2	3	6 3/8	6 3/8	3	3 7/8	11 3/4														3.13
2M	36	18	1 1/8	3/8	1/2	5	2 5/8	2 3/4	7 7/8	8	5	4 1/8	15 3/8														4.5
3	36	18	1 1/8	3/8	1/2	5	2 5/8	2 3/4	7 7/8	8	5	4 1/8	15 3/8														4.5
4	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0
5	48	24	1 3/8	1/2	5/8	6	3 1/2	5	10	10 1/8	6	5 5/8	19														8.0

STANDARD SIGN
W57-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/14/17 PLATE NO. W57-51.10

PROJECT NO:

HWY:

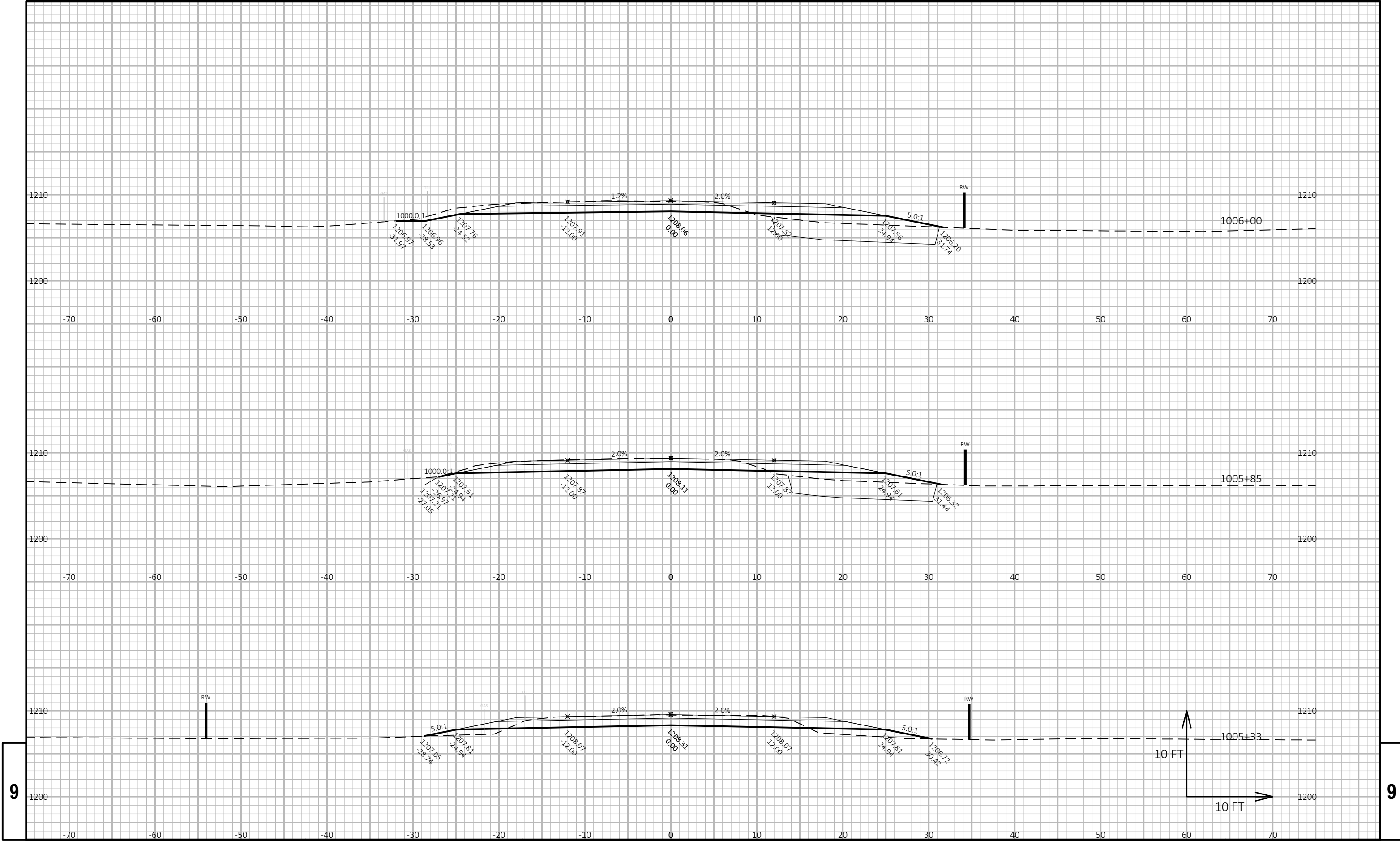
COUNTY:

SHEET NO: 198

E

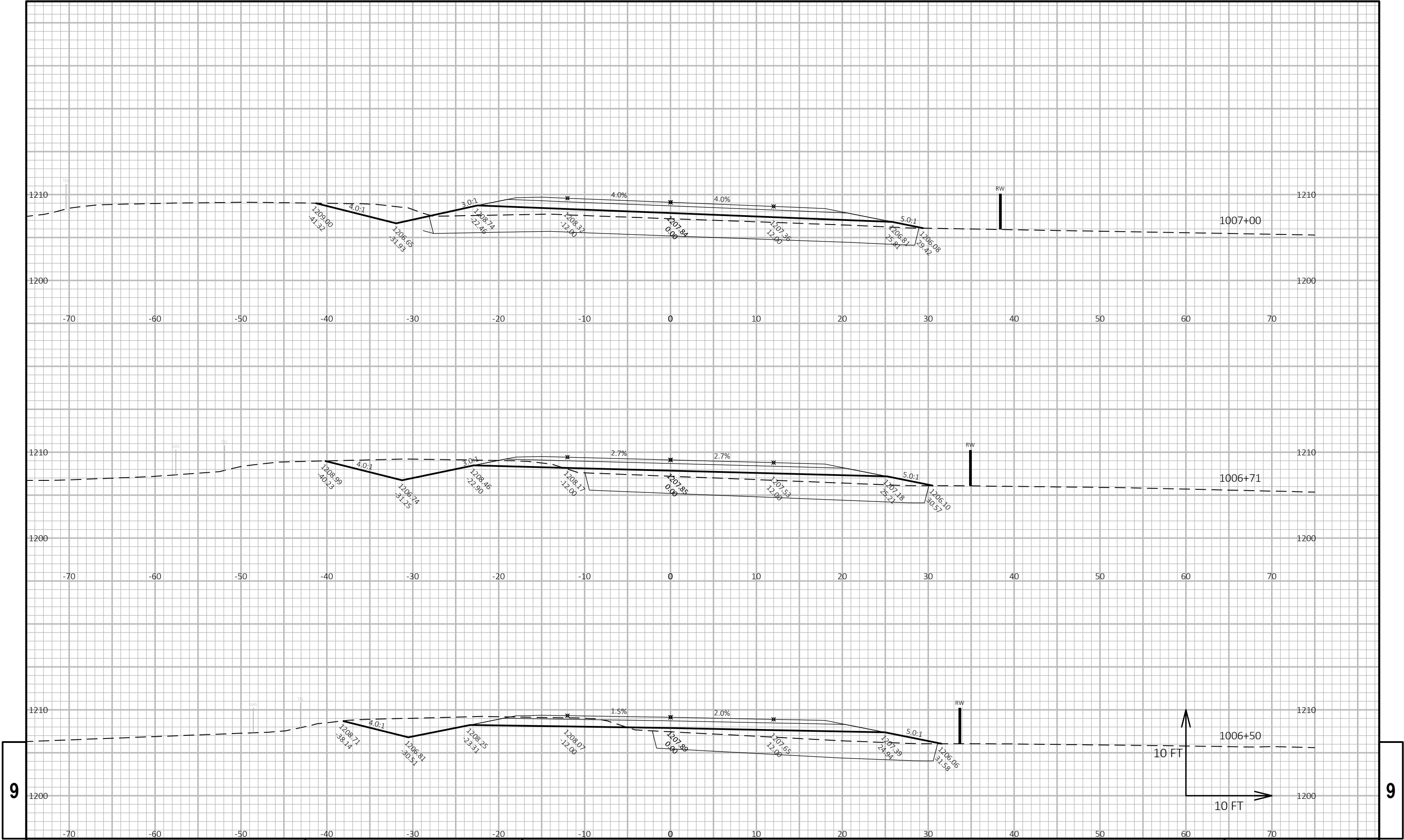
EARTHWORK DATA											
STATION	AREA (SF)				INCREMENTAL VOLUME (CY)				CUMULATIVE VOLUME (CY)	INCREMENTAL VOLUME (CY)	
	CUT	REUSEABLE CUT	MARSH EX.	FILL	COMMON EX. 205.0100	REUSEABLE CUT	MARSH EX. 205.0400	REQUIRED FILL (20% EXP)	MASS ORDINATE	SELECT BORROW 208.1100 REQUIRED FILL	SELECT BORROW 208.1100 MARSH BACKFILL
HOSPITAL ROAD (EAST)											
2004+68	43.25	35.92	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2005+00	55.77	48.44	0.00	1.74	58.68	50.00	0.00	1.66	48.34	0.00	0.00
2005+50	55.48	48.15	0.00	4.72	103.01	89.44	0.00	7.18	130.60	0.00	0.00
2006+00	54.34	47.01	0.00	2.11	101.69	88.12	0.00	7.59	211.13	0.00	0.00
2006+25	70.75	63.42	39.01	0.02	57.91	51.13	18.06	1.18	261.08	0.00	22.58
2006+50	65.89	58.56	34.82	0.00	63.26	56.48	34.18	0.01	317.54	0.00	42.73
2006+74	40.42	33.09	38.90	1.84	47.25	40.74	32.76	0.98	357.30	0.00	40.96
2007+00	27.36	20.03	52.29	8.06	32.63	25.58	43.91	5.72	377.16	0.00	54.88
2007+50	13.99	9.99	82.28	27.84	38.29	27.80	124.60	39.89	365.07	0.00	155.75
2007+77	4.79	3.79	100.71	52.65	9.39	6.89	91.50	48.29	323.67	0.00	114.37
2008+00	0.00	0.00	110.71	73.50	2.04	1.61	90.05	64.48	260.81	0.00	112.56
2008+25	0.00	0.00	126.56	93.38	0.00	0.00	109.85	92.71	168.10	0.00	137.31
2008+50	0.00	0.00	178.52	129.56	0.00	0.00	141.24	123.86	44.24	0.00	176.55
SUBTOTAL:					514.15	437.79	686.15	393.55		0.00	857.68
HOSPITAL ROAD (WEST)											
1005+33	39.77	31.78	0.00	12.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1005+85	40.85	32.86	32.56	13.77	77.63	62.24	31.35	30.73	31.52	0.00	39.19
1006+00	40.52	32.53	36.97	15.63	22.60	18.16	19.31	9.80	39.88	0.00	24.14
1006+50	36.67	28.68	64.41	26.57	71.47	56.67	93.87	46.89	49.66	0.00	117.34
1006+71	29.73	21.74	78.05	29.84	25.82	19.61	55.40	26.32	42.94	0.00	69.25
1007+00	14.31	10.98	114.45	37.56	23.65	17.57	103.38	43.44	17.08	0.00	129.22
1007+50	0.00	0.00	114.76	51.65	13.25	10.17	212.23	99.12	-71.88	71.88	265.29
1007+73	0.00	0.00	127.58	102.61	0.00	0.00	103.22	78.84	-150.72	78.84	129.02
1008+00	0.00	0.00	136.75	128.83	0.00	0.00	132.17	138.86	-289.58	138.86	165.21
1008+50	0.00	0.00	141.81	151.18	0.00	0.00	257.93	311.12	-600.71	311.12	322.41
1008+76	0.00	0.00	156.92	187.73	0.00	0.00	143.83	195.81	-796.52	195.81	179.79
1009+25	0.00	0.00	0.00	116.97	0.00	0.00	142.39	331.78	-1128.31	331.78	177.99
SUBTOTAL:					234.43	184.42	1295.08	1312.73		1128.31	1618.85
TOTAL					748.58	622.21	1981.23	1706.27		1128.31	2476.54

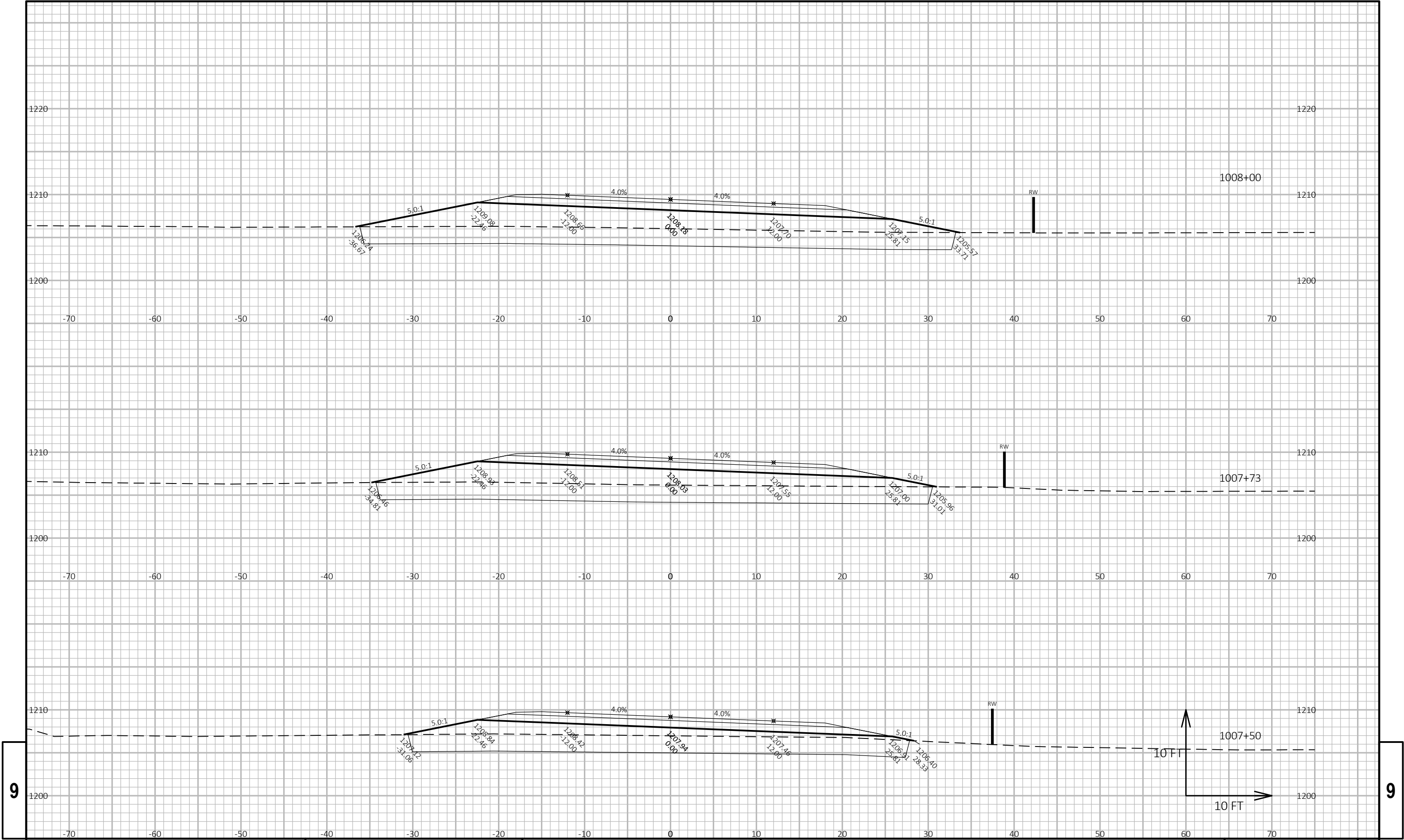
MASS ORDINATE = REUSEABLE CUT - REQUIRED FILL
SELECT BORROW REQUIRED FILL = MATERIAL REQUIRED FOR EMBANKMENT BEYOND USEABLE CUT MATERIAL
SELECT BORROW MARSH BACKFILL = MARSH EXCAVATION X 1.25 (1.25 = MARSH EXPANSION FACTOR)



9

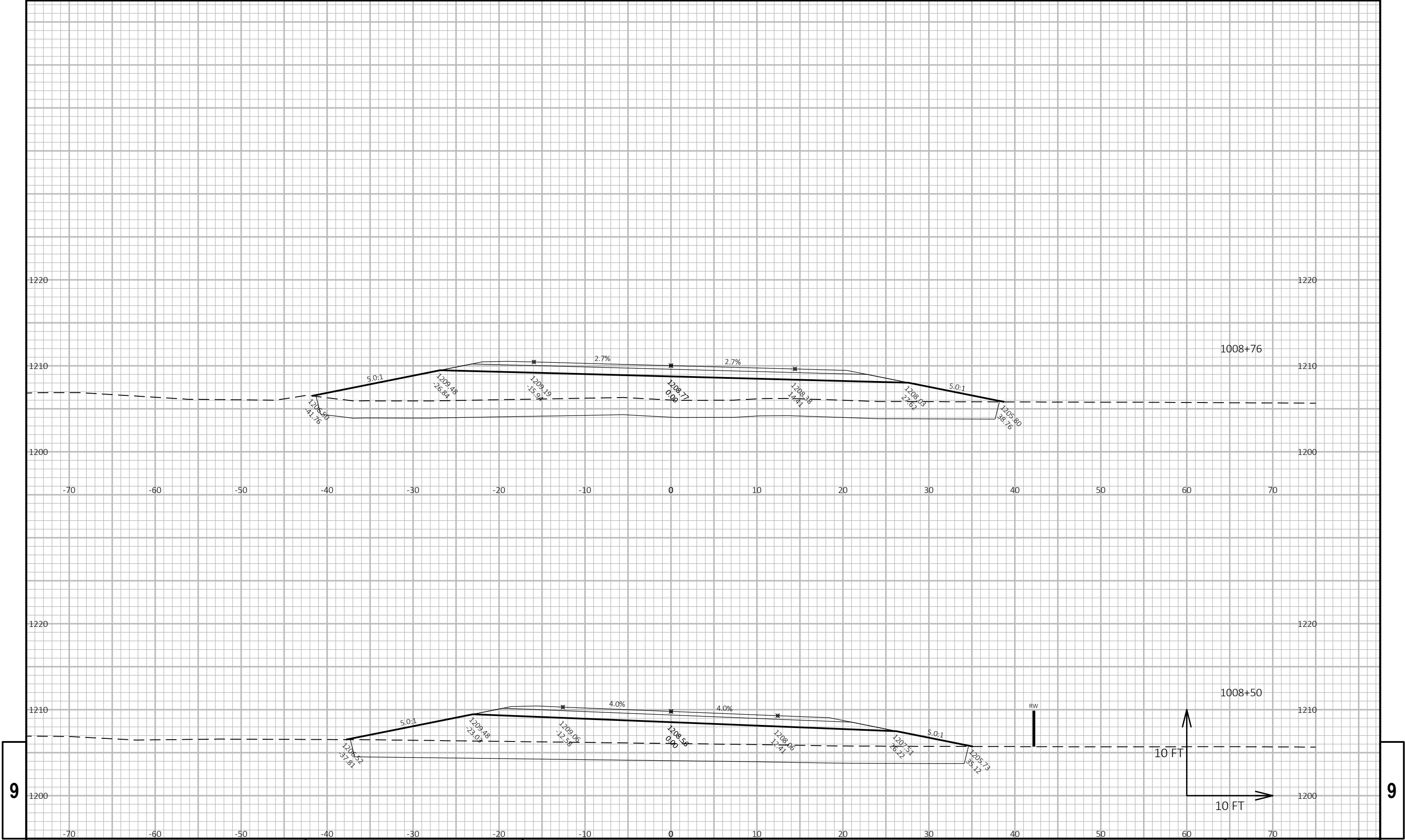
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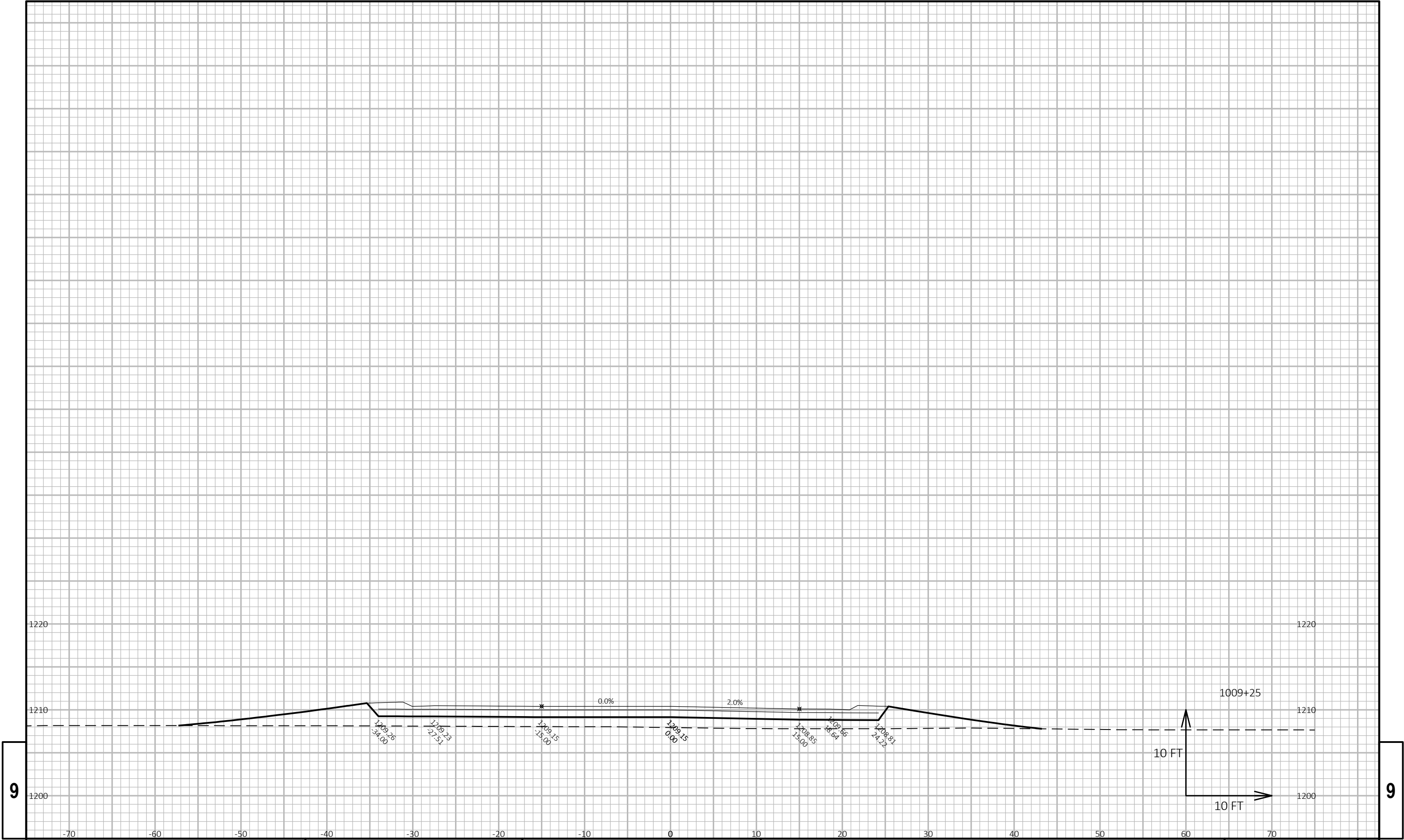
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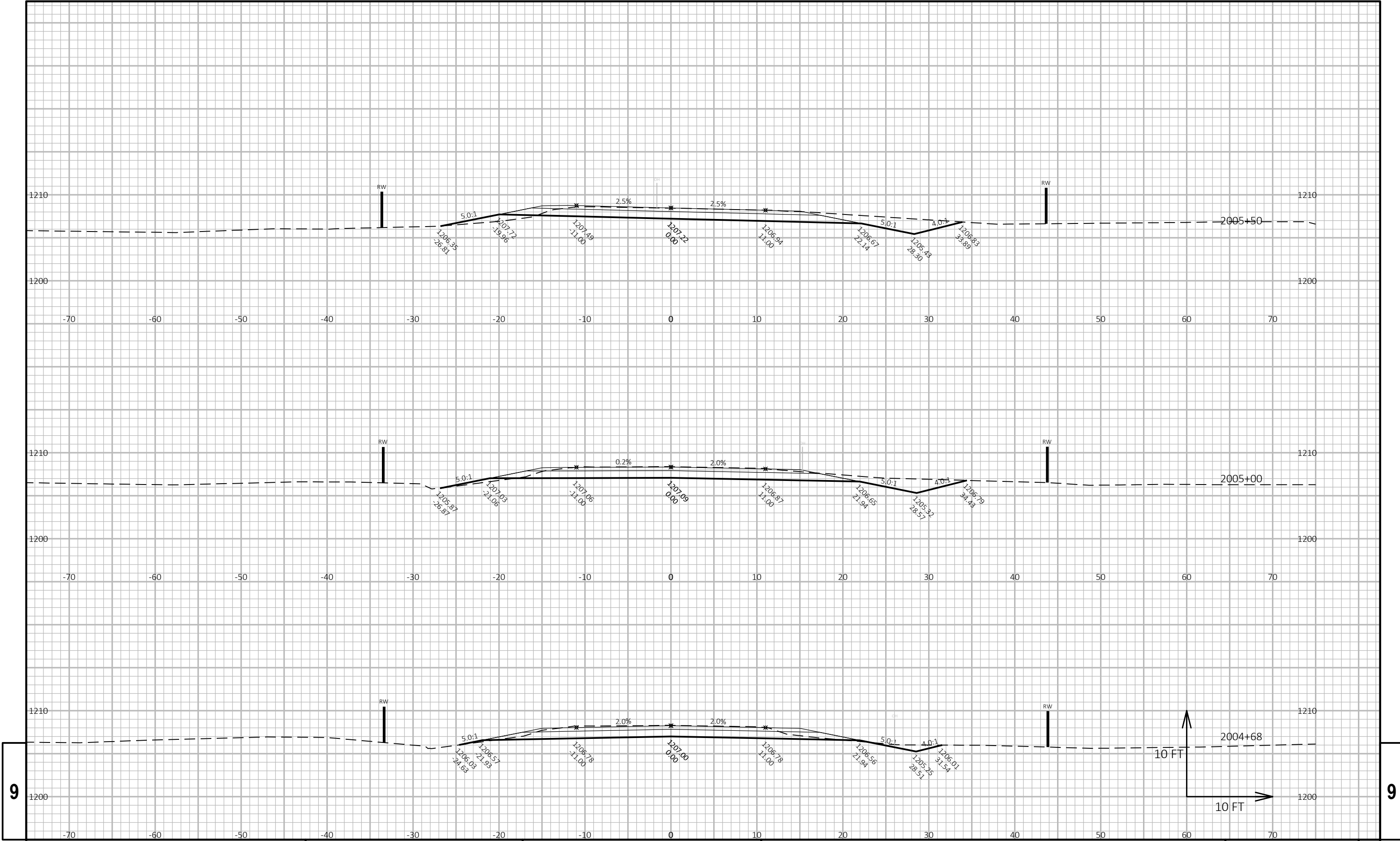
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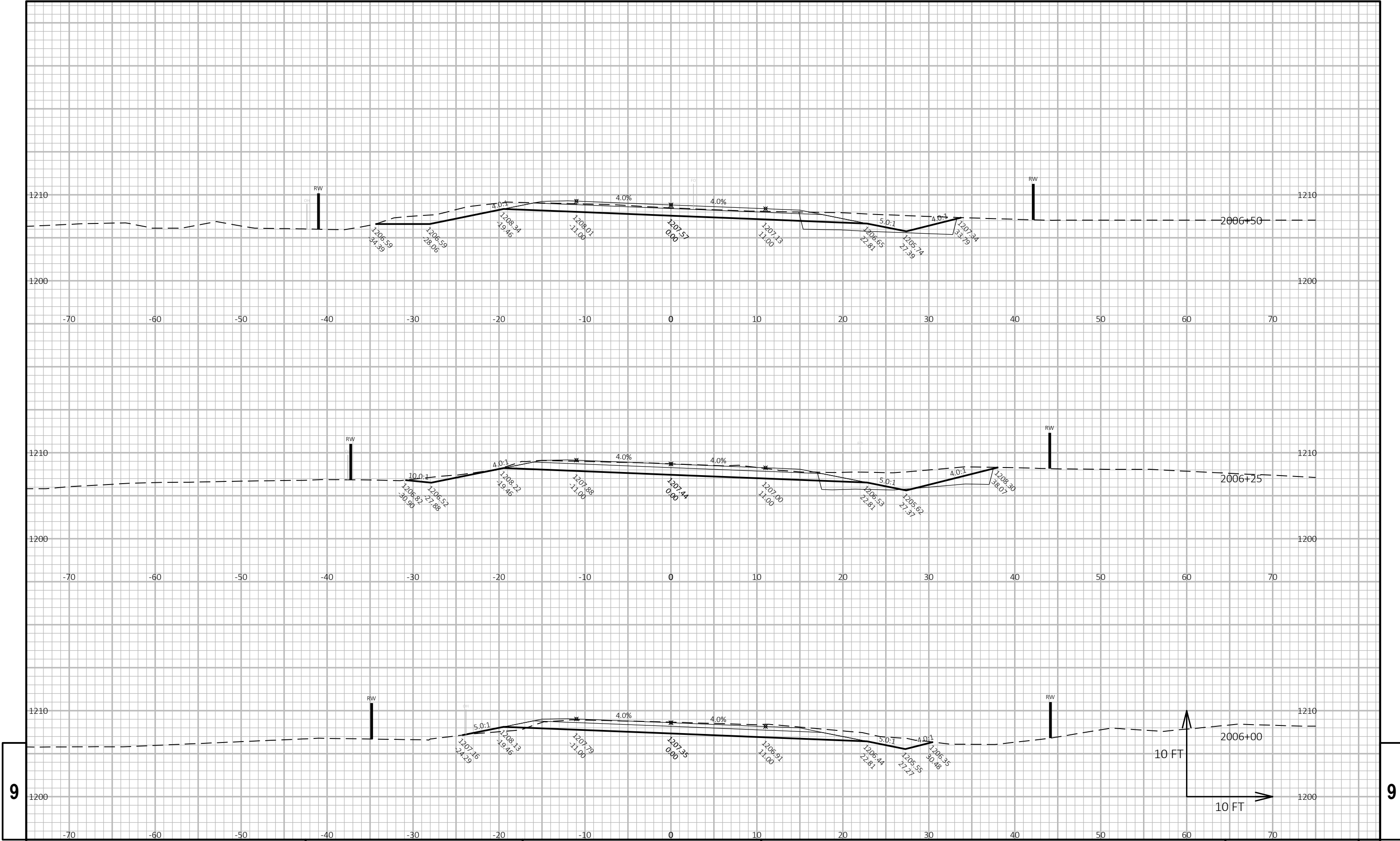
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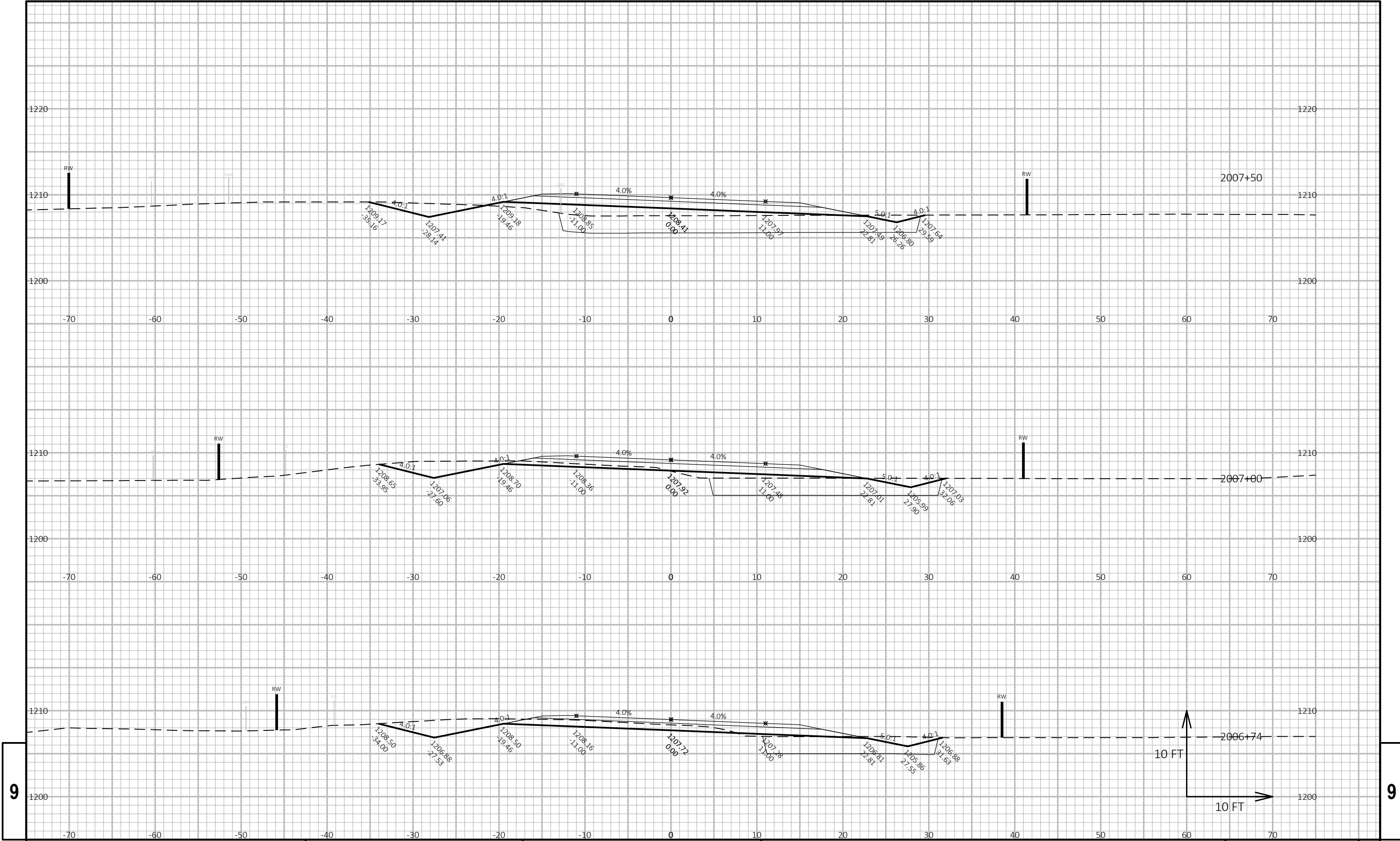


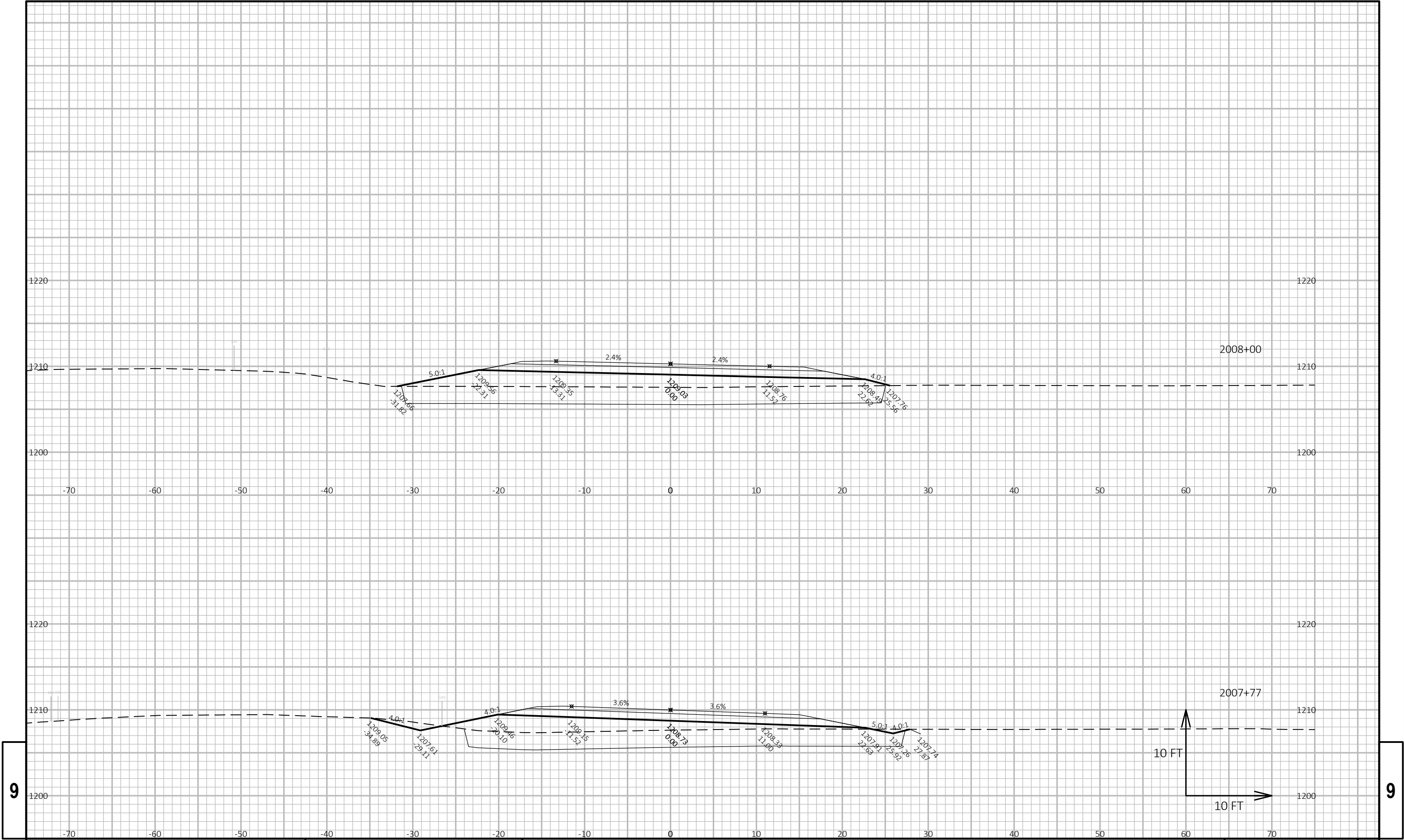
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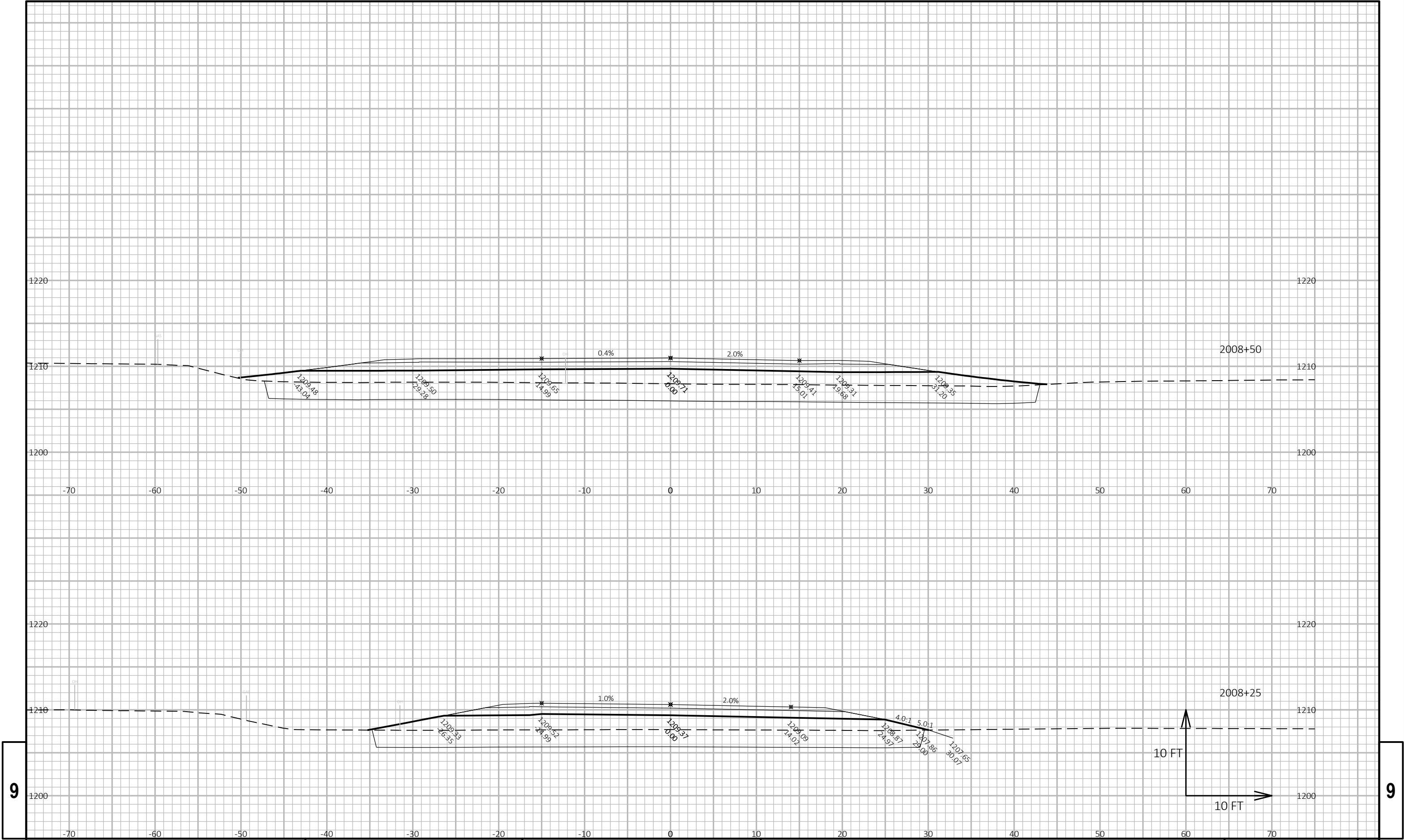
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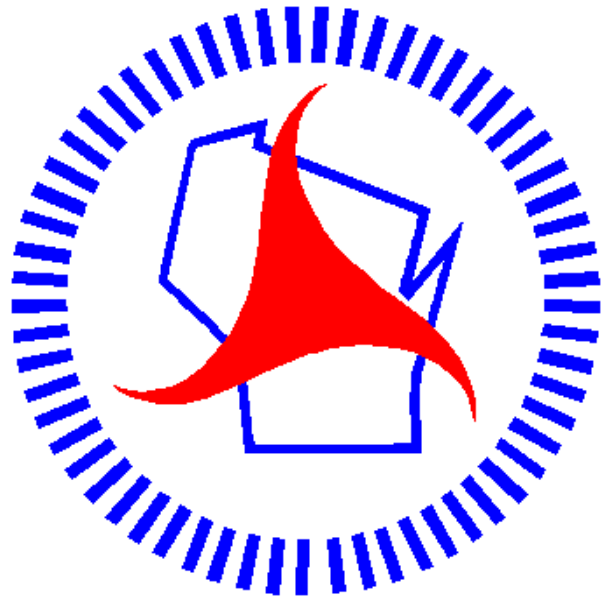






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