SUP JULY 2015

PROJECT ID: 1560-30-71
WITH: 1560-30-71

COUNTY: WASHBURN - SAWYER

ORDER OF SHEETS

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

TOTAL SHEETS = 352

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

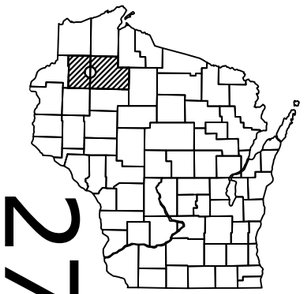
PLAN OF PROPOSED IMPROVEMENT

SPOONER - HAYWARD
CTH M - VERMONT AVE.

USH 63
WASHBURN - SAWYER

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1560-30-71	WISC 2015434	1

STATE PROJECT NUMBER
1560-30-71



N

NET EXCEPTION TO CENTERLINE
LENGTH B-65-0019
STA. 253+69.7 TO STA. 252+15.7

DESIGN DESIGNATION

A.A.D.T.	2008	=	4800
A.A.D.T.	2038	=	7400
D.H.V.		=	903
D.D.		=	63/37
T.		=	8.2 %
DESIGN SPEED		=	55 MPH
ESALS		=	3,500,000

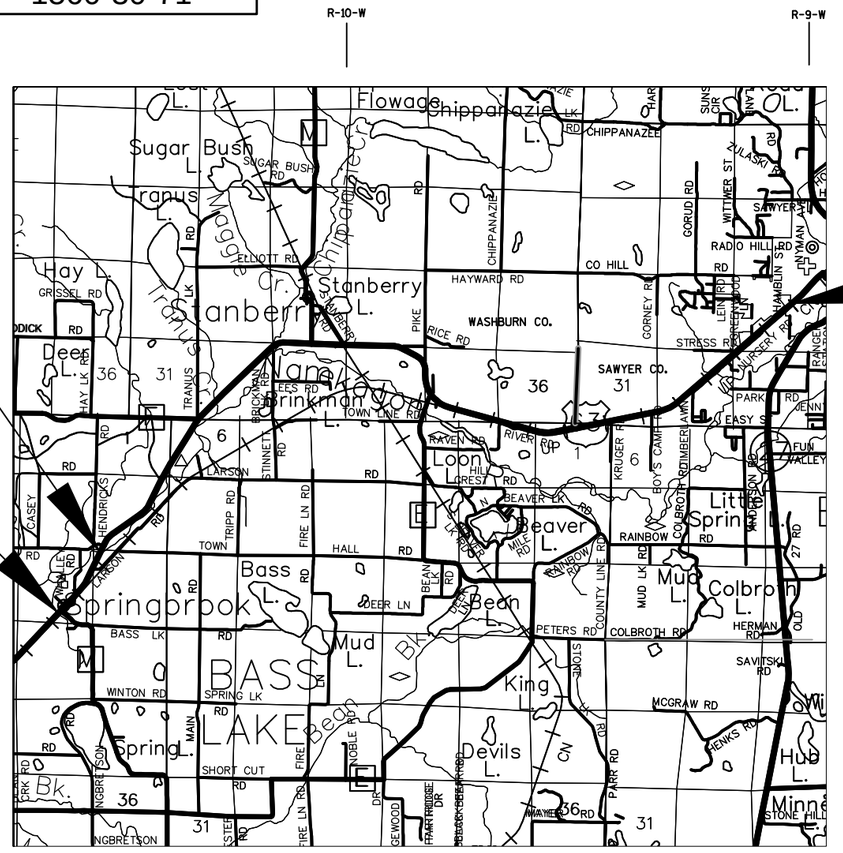
BEGIN PROJECT 1560-30-71
STA. 199+79.5
N 612013.6691
E 791073.4591
WASHBURN COUNTY

CONVENTIONAL SYMBOLS

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

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

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



LAYOUT
SCALE 0 2

TOTAL NET LENGTH OF CENTERLINE = 12.804

END PROJECT 1560-30-71
STA. 876+08.2
N 616404.3200
E 436377.5991
SAWYER COUNTY

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, WASHB.-SAWY. COUNTY, NAD83 (1991), 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	MICHAEL PILLER
Designer	MICHAEL PEARSON
Project Manager	MATHEW DICKENSON
Regional Examiner	PHILLIP KEPPERS
Regional Supervisor	DAVID OSTROWSKI

APPROVED FOR THE DEPARTMENT
DATE: 4/10/15 (Signature)

E

2

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.

SOME UTILITY LOCATIONS HAVE CHANGED. THE CONTRACTOR SHALL LOCATE UTILITIES PRIOR TO ANY EXCAVATION.

WHEN THE QUANTITY OF BASE AGG. 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.

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

ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS BETWEEN THE SUBGRADE SHOULDER POINTS, SHALL BE SEEDED, MULCHED AND STABILIZED WITHIN 7 WORKING DAYS OF SLOPE COMPLETION.

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

SEEDING AND MULCH HAS BEEN COMPUTED BY DIRECT MEASUREMENT OF PLAN VIEW AREA.

DIMENSIONS OF RIPRAP PLACEMENT SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

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

NO TREE SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

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

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

INLET GRATE ELEVATIONS REFERRED TO ON THE PLAN ARE GUTTER FLOW LINE ELEVATIONS. REFER TO CONSTRUCTION DETAILS FOR INSTALLATION.

CROSS SECTION ELEVATIONS ARE BASED ON THE AVAILABLE T.I.N. MODEL AND MAY NEED VERIFICATION IN THE FIELD. INLET AND INVERT ELEVATIONS ARE BASED ON FIELD SURVEY DATA.

ASPHALTIC SURFACE PATCHING SHALL BE COMPLETED PRIOR TO MILLING AND OVERLAYING THE FINAL PAVEMENT SURFACES.

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

UTILITIES

WE ENERGIES
104 W. SOUTH ST
RICE LAKE, WI 54868
ATTN: LEWIS KNAPP
PHONE:715-234-9605

DAIRYLAND POWER
3200 EAST AVE. S.
LA CROSSE, WI 54602
ATTN: KURT CHILDS
PHONE: 608-787-1367

ATC
P.O. BOX 47
WAUKESHA, WI 53187-0047
ATTN: TONY MARCINIAK
PHONE: 262-506-6814

BARRON ELECTRIC COOP
1434 N. STH 25
BARRON, WI 54812
ATTN: BRIAN SCHULZ
PHONE:715-537-3171

NORVADO COMMUNICATIONS
43750 USH 63
CABLE, WI 54821
ATTN: GUY FOLSOM
PHONE:715-798-7123

CENTURYLINK
400 W. 9TH ST. N, STE 5A
LADYSMITH, WI 54848
ATTN: BRIAN HUHN
PHONE: 715-532-0023

ENBRIDGE ENERGY-GAS
10 BARDON AVE.
SUPERIOR, WI 54880
ATTN: DEAN WILL
PHONE: (715) 394-1542

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

XCEL ENERGY - TRANSMISSION
8710 MONTICELLO LANE
MAPLE GROVE, MN 55369
ATTN: CHARLES DIENGER
PHONE:651-955-1089

XCEL ENERGY - DISTRIBUTION
16048 ELECTRICAL AVE.
HAYWARD, WI 54843
ATTN: KEN DISHER
PHONE:715-577-0613

CANADIAN NATIONAL (WCL)
CHRISTINE GRZESIAK
CALL BEFORE YOU DIG
715 345-2506

WISCONSIN CENTRAL LTD
1625 DEPOT STREET
STEVENS POINT, WI 54481
ATTN: JACKIE MACEWICZ
PHONE:715-345-2503

CITY OF HAYWARD
PUBLIC WORKS DIRECTOR
JOHN MCCUE
15889 W. 3RD ST.
HAYWARD, WI 54843
PHONE: (715) 634-4612

SAWYER COUNTY HIGHWAY
COMMISSIONER
GARY GEDART
14688 W. CTH B
HAYWARD, WI 54843
PHONE: (715) 945-2384

STINNETT TOWN CHAIRMAN
WILLIAM GROAT
N10355 CO. HWY M
SPRINGBROOK, WI 54875
PHONE: (715) 634-5604

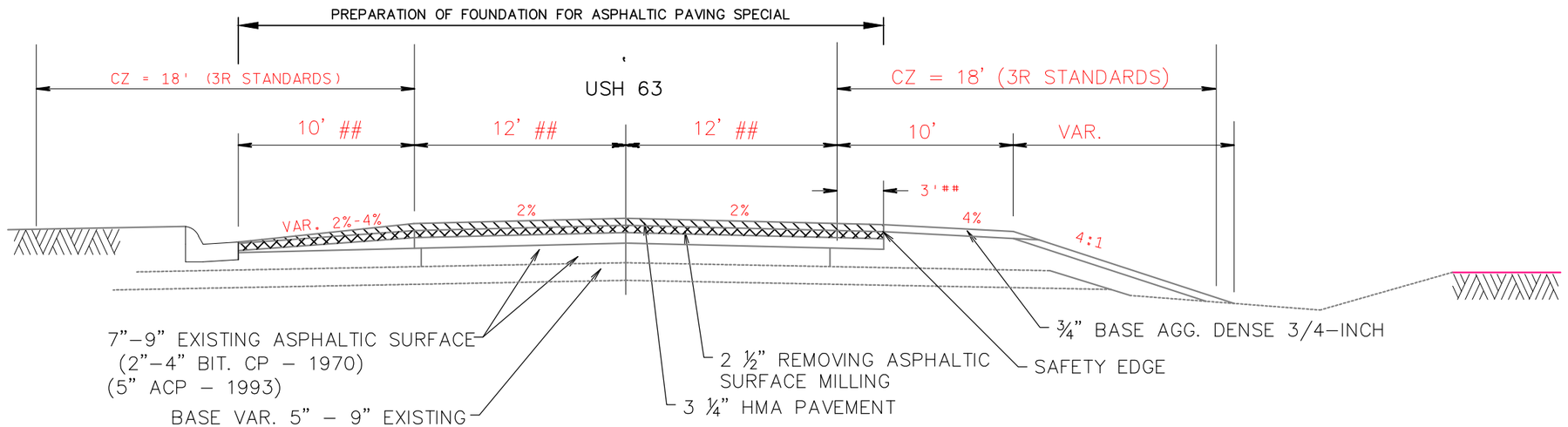
DNR CONTACT
SHAWN HASELEU
WDNR - NORTHWEST DISTRICT HEADQUARTERS
810 WEST MAPLE STREET
SPOONER, WI 54801
(715) 635-4228

DESIGN CONTACT
MICHAEL PEARSON
WISDOT NORTHWEST REGION
1701 N. 4TH STREET
SUPERIOR WI, 54880
PHONE: (715) 395-3024

WASHBURN COUNTY HIGHWAY
COMMISSIONER
JON JOHNSON
1600 COUNTY HIGHWAY H
SPOONER, WI 54801
PHONE: (715) 635-4480

BASS LAKE TOWN CHAIRMAN
LAURA KILMER
N8529 KOHLER LANE
SPRINGBROOK, WI 54875
PHONE: (715) 766-2020

SPRINGBROOK TOWN CHAIRMAN
DAVID BAUMGARTEN
W3159 WILLERS ROAD
SPRINGBROOK, WI 54875
PHONE: (715) 766-2087



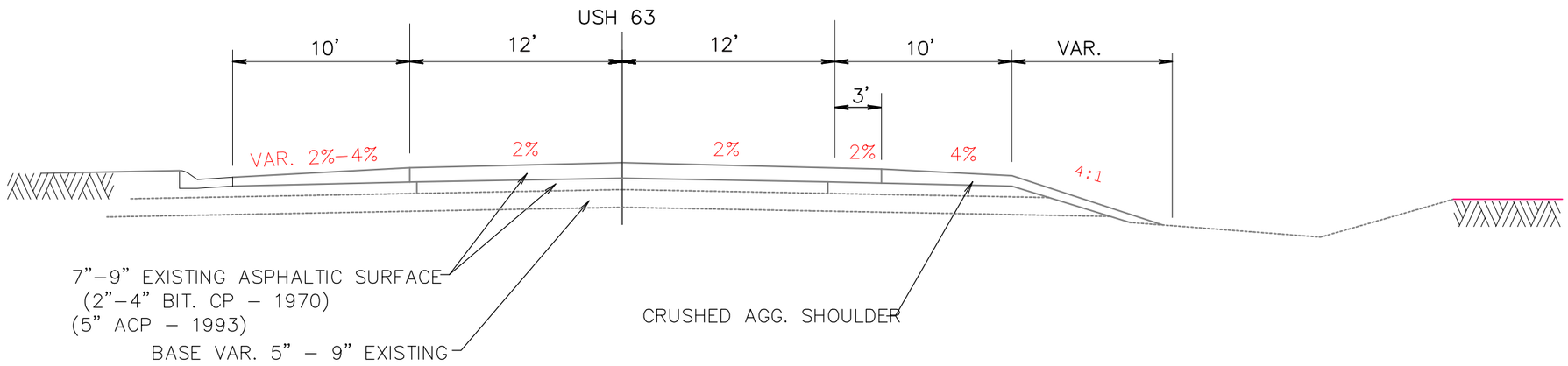
FINISHED TYPICAL SECTION

STA. 203+92 – 218+42

PREPARATION OF FOUNDATION FOR ASPHALTIC PAVING SPECIAL

2 1/2" REMOVING ASPHALTIC SURFACE MILLING

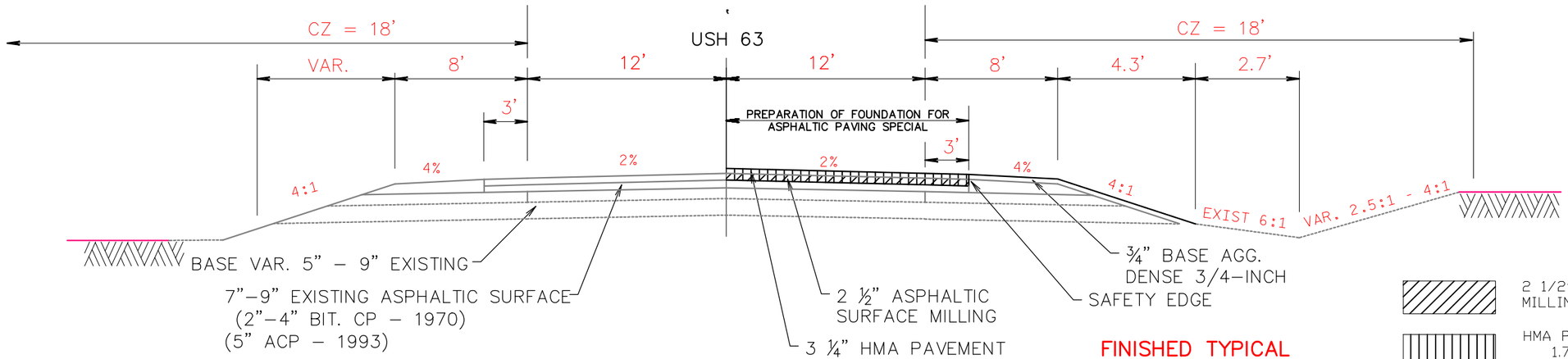
HMA PAVEMENT
1.75" UPPER LAYER TYPE E-10 SPECIAL
1.5" LEVELING LAYER TYPE E-3 SPECIAL



EXISTING TYPICAL SECTION

STA. 203+92 – 218+42

PROJECT NO:1560-30-71	HWY:USH 63	COUNTY:WASHBURN	TYPICAL SECTIONS	SHEET 3	E



EXISTING TYPICAL STANDARD HALF SECTION

STA.: 199+80 – 876+08
EXCEPT WHERE NOTED WITH TURN LANES LEFT AND RIGHT, PASSING LANES LEFT AND RIGHT, WIDENED SHOULDERS AND NET EXCEPTION TO CENTERLINE LENGTH.

FINISHED TYPICAL STANDARD HALF SECTION

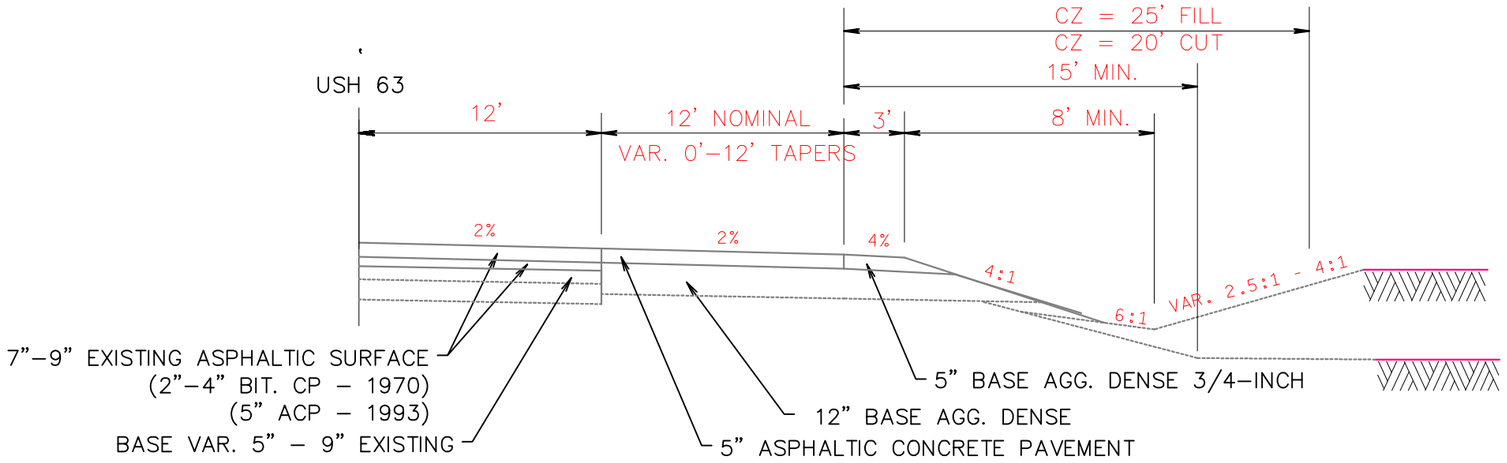
NOTE: OMIT MILLING STA. 606+00–608+00 LT AND RT, OVERLAY 3 ¼" ONLY.

2 1/2" REMOVING ASPHALTIC SURFACE MILLING

HMA PAVEMENT
1.75" UPPER LAYER TYPE E-10 SPECIAL
1.5" LEVELING LAYER TYPE E-3 SPECIAL

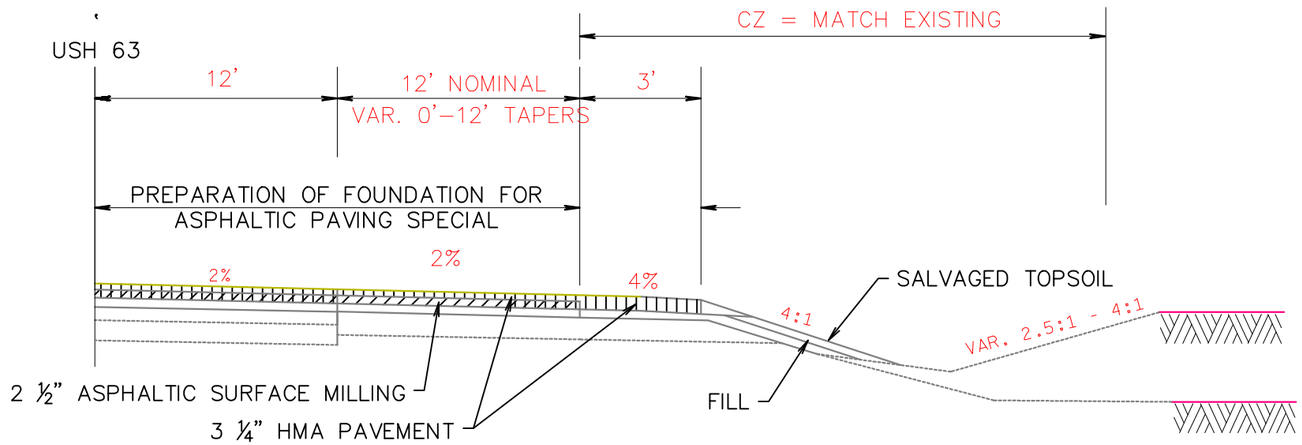
PROJECT NO:1560–30–71	HWY: USH 63	COUNTY: WASHBURN	TYPICAL SECTIONS	SHEET 4	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\TS\TYPICALS–REAL.DWG PLOT DATE : 4/13/2015 7:50 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 in: 7.5'
WISDOT/CADDS SHEET 44



EXISTING TYPICAL RIGHT TURN LANE

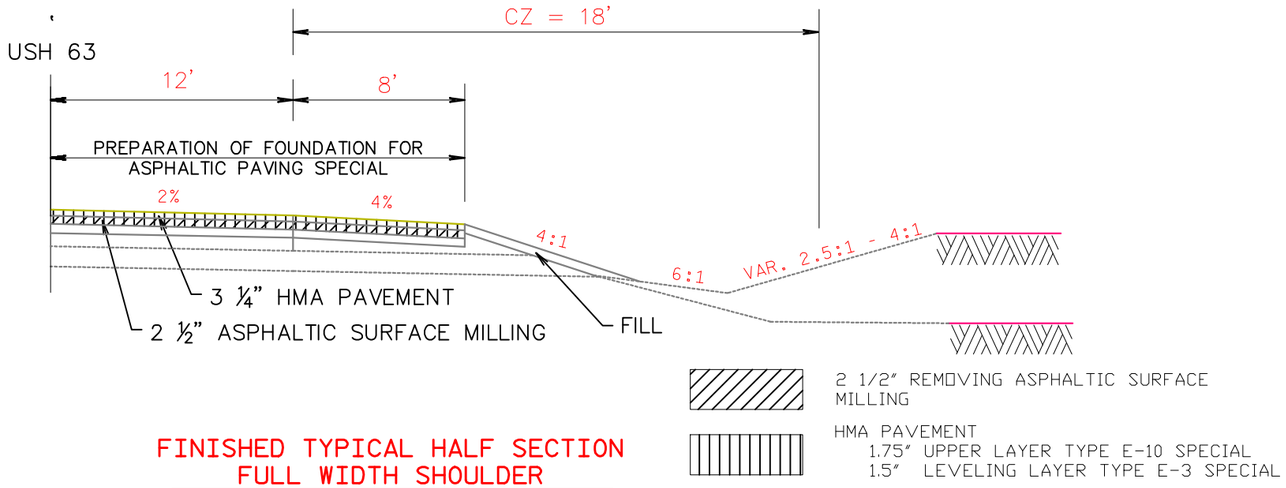
STA. 320+37 – 325+56 RT
STA. 471+57 – 476+57 LT
STA. 701+88 – 706+84 RT
STA. 857+93 – 862+71 RT
STA. 869+84 – 871+60 RT



FINISHED TYPICAL RIGHT TURN LANE

STA. 320+37 – 325+56 RT
STA. 471+57 – 476+17 LT
STA. 701+88 – 706+84 RT
STA. 857+93 – 860+81 RT
STA. 869+84 – 871+60 RT

PROJECT NO:1560–30–71	HWY: USH 63	COUNTY: WASHBURN	TYPICAL SECTIONS	SHEET 5	E



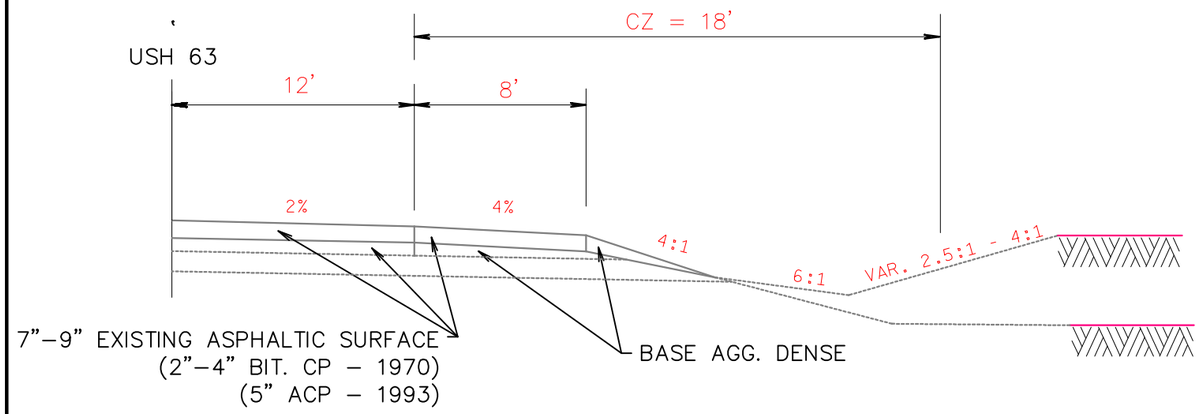
2 1/2" REMOVING ASPHALTIC SURFACE MILLING

HMA PAVEMENT
1.75" UPPER LAYER TYPE E-10 SPECIAL
1.5" LEVELING LAYER TYPE E-3 SPECIAL

FINISHED TYPICAL HALF SECTION FULL WIDTH SHOULDER

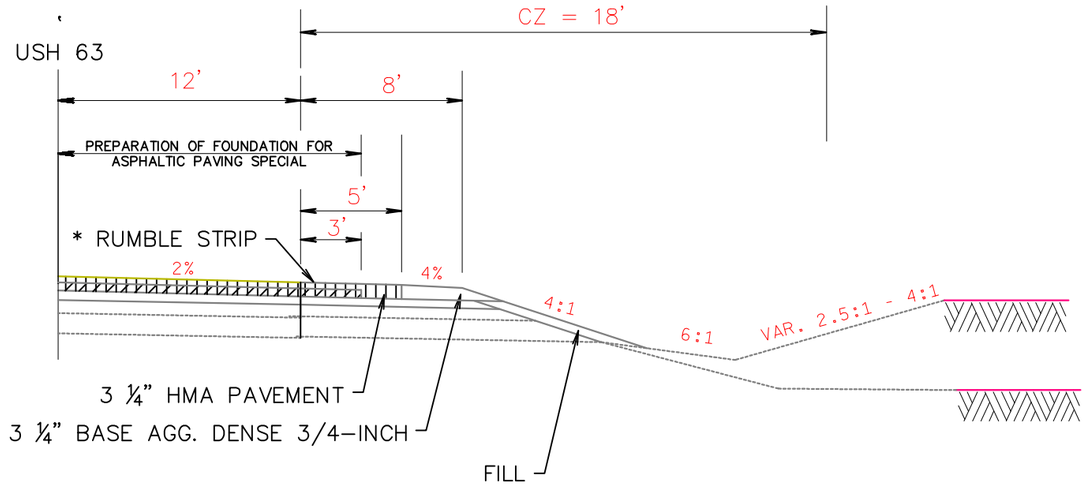
STA. 810+00 – 824+70 LT *
STA. 832+50 – 869+58 LT
STA. 810+16 – 822+82 RT *
STA. 830+30 – 857+93 RT
STA. 832+50 – 857+93 RT
STA. 862+71 – 869+84 RT

* FOR PAVEMENT WIDENING USE 3.25" OVERLAY ON TOP OF EXISTING BASE.



EXISTING TYPICAL HALF SECTION FULL WIDTH SHOULDER

STA. 832+50 – 869+58 LT
STA. 828+94 – 829+10 RT
STA. 832+50 – 857+93 RT
STA. 862+71 – 869+84 RT



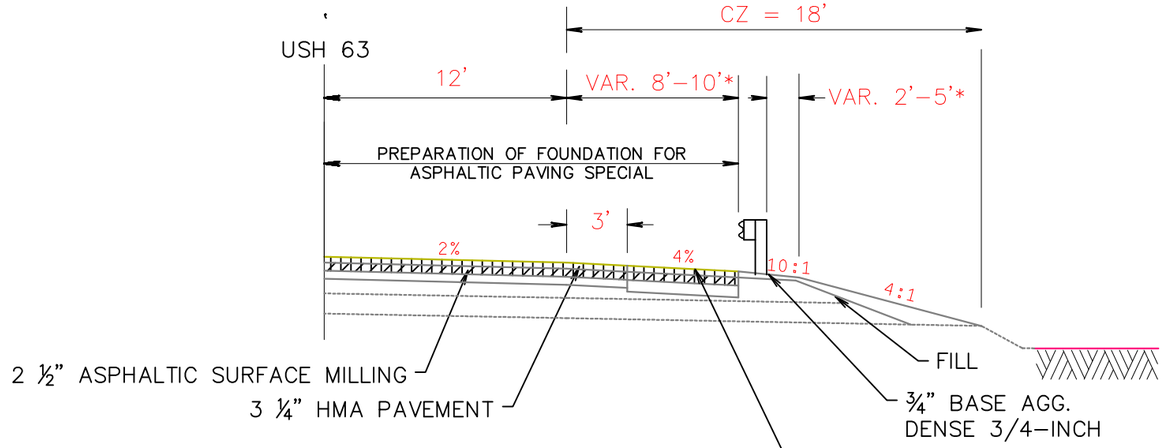
FINISHED TYPICAL HALF SECTION SPECIAL TREATMENT

STA. 527+12 – 572+09 RT *
STA. 575+58 – 595+36 RT *
STA. 527+12 – 595+36 LT *
STA. 761+59 – 808+69 RT

2 1/2" REMOVING ASPHALTIC SURFACE MILLING

HMA PAVEMENT
1.75" UPPER LAYER TYPE E-10 SPECIAL
1.5" LEVELING LAYER TYPE E-3 SPECIAL

PROJECT NO:1560–30–71	HWY:USH 63	COUNTY:WASHBURN	TYPICAL SECTIONS	SHEET 6	E



* PER S.D.D. "MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL"

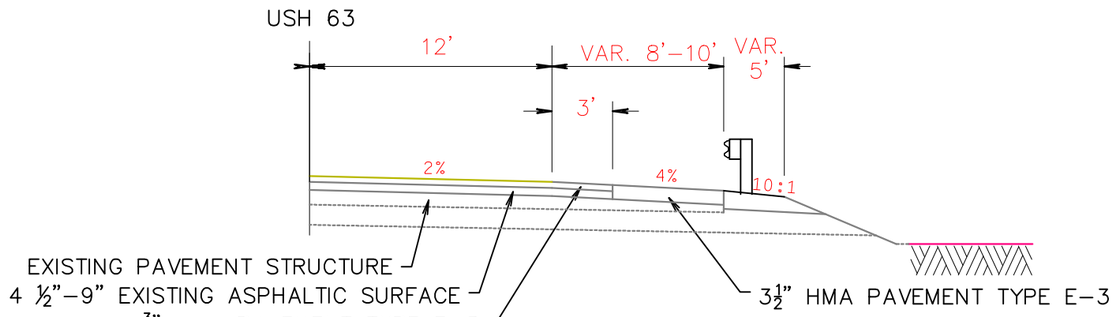
2 1/2" REMOVING ASPHALTIC SURFACE MILLING

HMA PAVEMENT
1.75" UPPER LAYER TYPE E-10 SPECIAL
1.5" LEVELING LAYER TYPE E-3 SPECIAL

** MILL 3 ¼" AND REPLACE 3 ¼" HMA UNDER RR OVERPASS STA. 491+94 TO 493+54. DO NOT RAISE THE GRADE. SEE "UNDERPASS PAVING DETAILS."

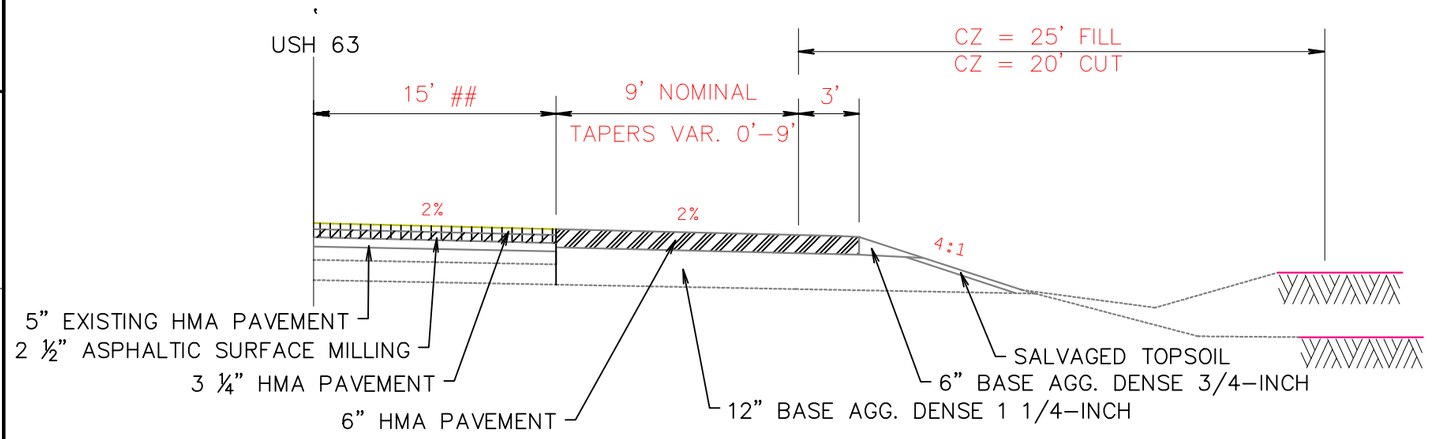
FINISHED TYPICAL HALF SECTION WITH BEAMGUARD

STA. 250+76 – 259+28 RT
STA. 251+00 – 257+75 LT
STA. 443+40 – 449+75 RT
STA. 443+93 – 446+45 LT
STA. 491+07 – 493+66 RT **
STA. 491+27 – 493+79 LT **
STA. 785+75 – 791+23 LT



EXISTING TYPICAL HALF SECTION WITH BEAMGUARD

STA. 250+76 – 259+28 RT
STA. 250+00 – 257+75 LT
STA. 443+40 – 449+75 RT
STA. 443+93 – 446+45 LT
STA. 491+07 – 493+50 RT
STA. 491+27 – 493+77 LT
STA. 785+75 – 791+23 LT

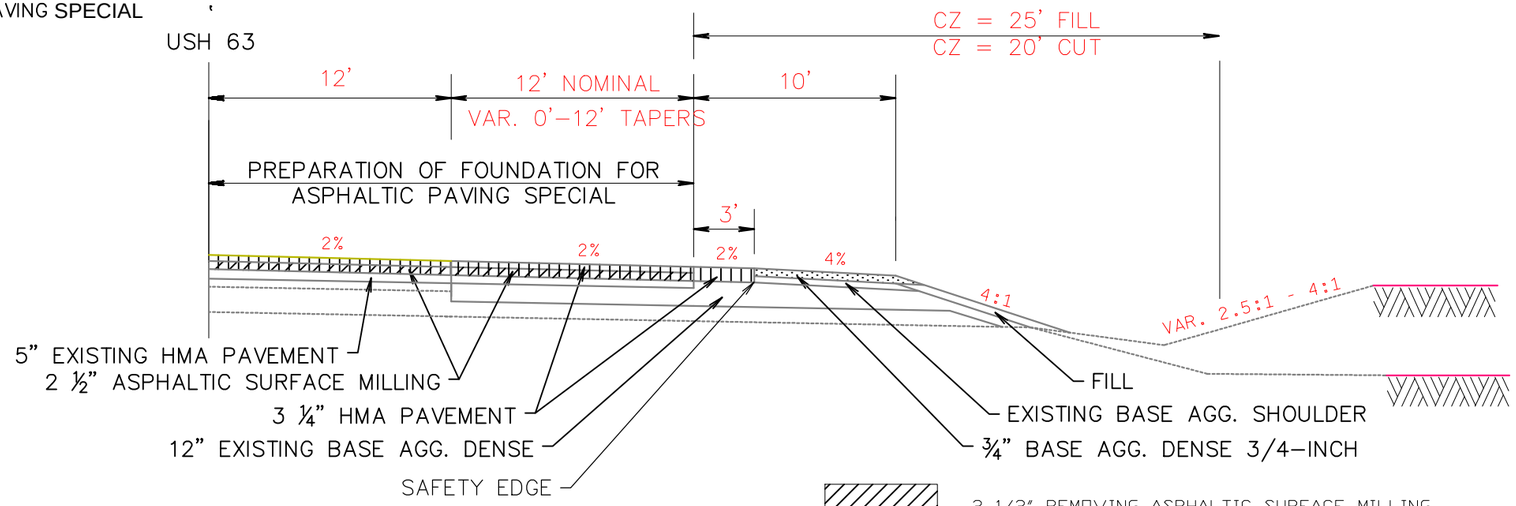


FINISHED TYPICAL RIGHT TURN LANE (NEW CONSTRUCTION)

STA. 199+80 – 203+30 RT
STA. 370+63 – 373+75 LT
STA. 572+48 – 575+58 RT

PREPARATION OF FOUNDATION FOR ASPHALTIC PAVING SPECIAL

HMA PAVEMENT
1.75" UPPER LAYER TYPE E-10 SPECIAL
1.5" LEVELING LAYER TYPE E-3 SPECIAL
2.75" LEVELING LAYER TYPE E-3 SPECIAL



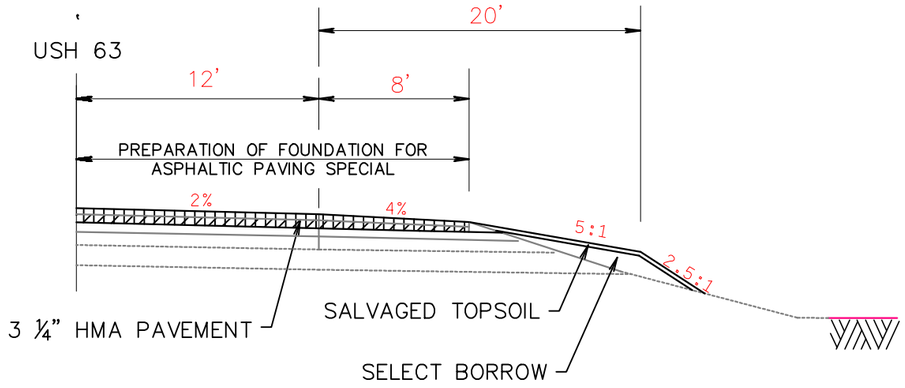
FINISHED TYPICAL PASSING LANE

STA. 303+45 – 352+32 LT
STA. 377+45 – 425+45 RT
STA. 703+29 – 711+21 LT

2 1/2" REMOVING ASPHALTIC SURFACE MILLING

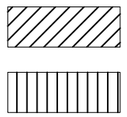
HMA PAVEMENT
1.75" UPPER LAYER TYPE E-10 SPECIAL
1.5" LEVELING LAYER TYPE E-3 SPECIAL

PROJECT NO:1560–30–71	HWY: USH 63	COUNTY: WASHBURN	TYPICAL SECTIONS	SHEET 8	E



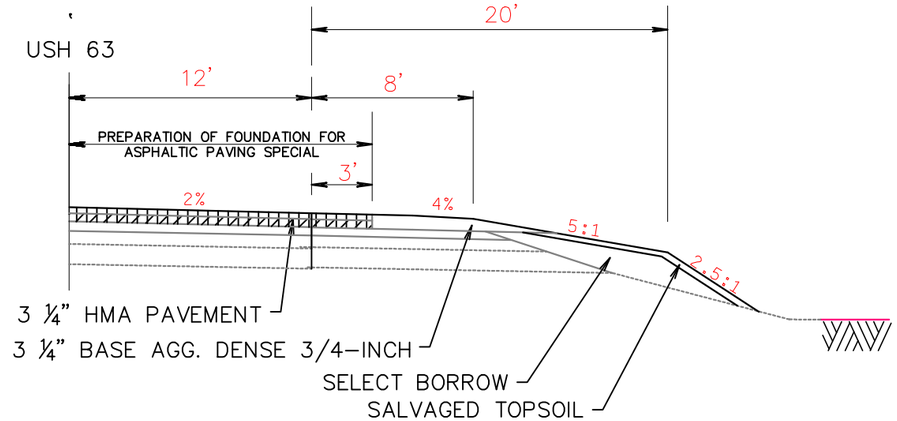
FINISHED TYPICAL HALF INSLOPE FILL

STA. 829+10 – 832+50 RT & LT



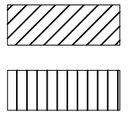
2 1/2" REMOVING ASPHALTIC SURFACE MILLING

HMA PAVEMENT
1.75" UPPER LAYER TYPE E-10 SPECIAL
1.5" LEVELING LAYER TYPE E-3 SPECIAL



FINISHED TYPICAL HALF INSLOPE FILL

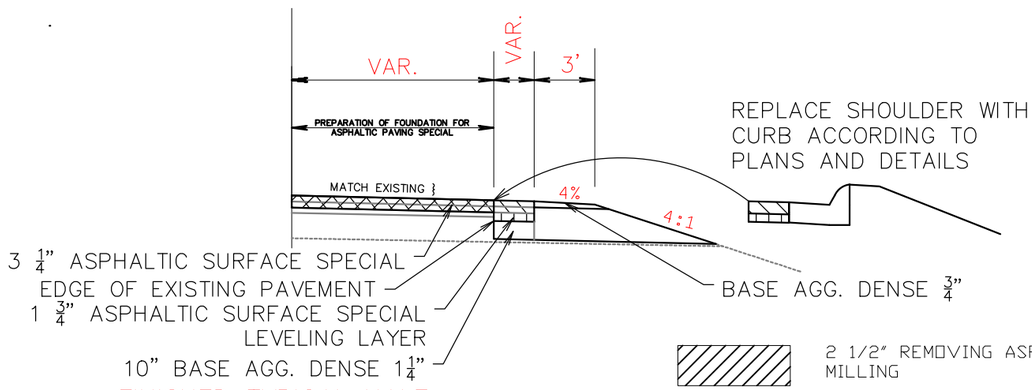
STA. 742+40 – 748+10 RT



2 1/2" REMOVING ASPHALTIC SURFACE MILLING

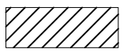
HMA PAVEMENT
1.75" UPPER LAYER TYPE E-10 SPECIAL
1.5" LEVELING LAYER TYPE E-3 SPECIAL

SIDE RD.



FINISHED TYPICAL HALF SECTION SIDE ROADS

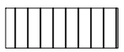
CTH M SOUTH	CTH E
LARSON ROAD	STINNET LANDING
BRICKMAN LAKE	RIVER ROAD
CTH M NORTH	RIVER ROAD ALLEY
STANBERY ROAD	KRUGER ROAD
LITTLE HAYWARD ROAD	BOYS CAMP ROAD
HAYWARD ROAD	L.P. ENTRANCE



2 1/2" REMOVING ASPHALTIC SURFACE MILLING



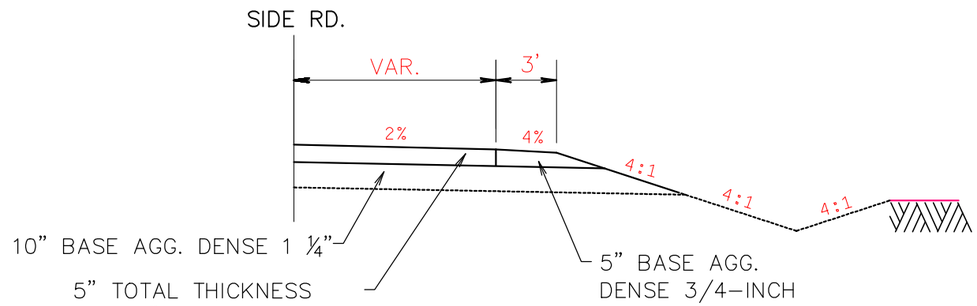
3 ¼" ASPHALTIC SURFACE **SPECIAL**



1 ¾" ASPHALTIC SURFACE **SPECIAL** LEVELING LAYER

TIMBERLAWN ROAD
OGREN ROAD
STRESS ROAD EAST
NURSERY ROAD
VERMONT AVE. EAST

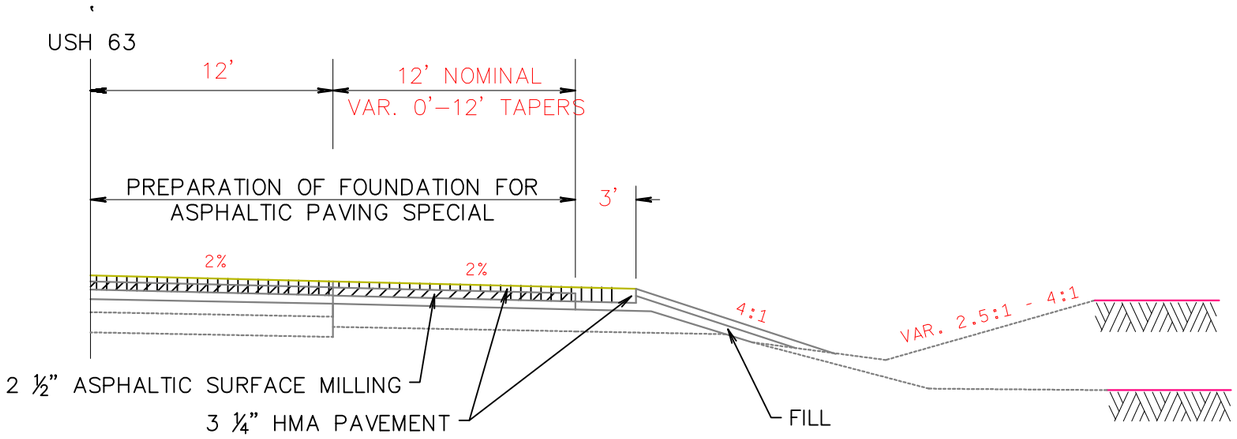
SIDE RD.



FINISHED TYPICAL SIDE ROAD HALF SECTION

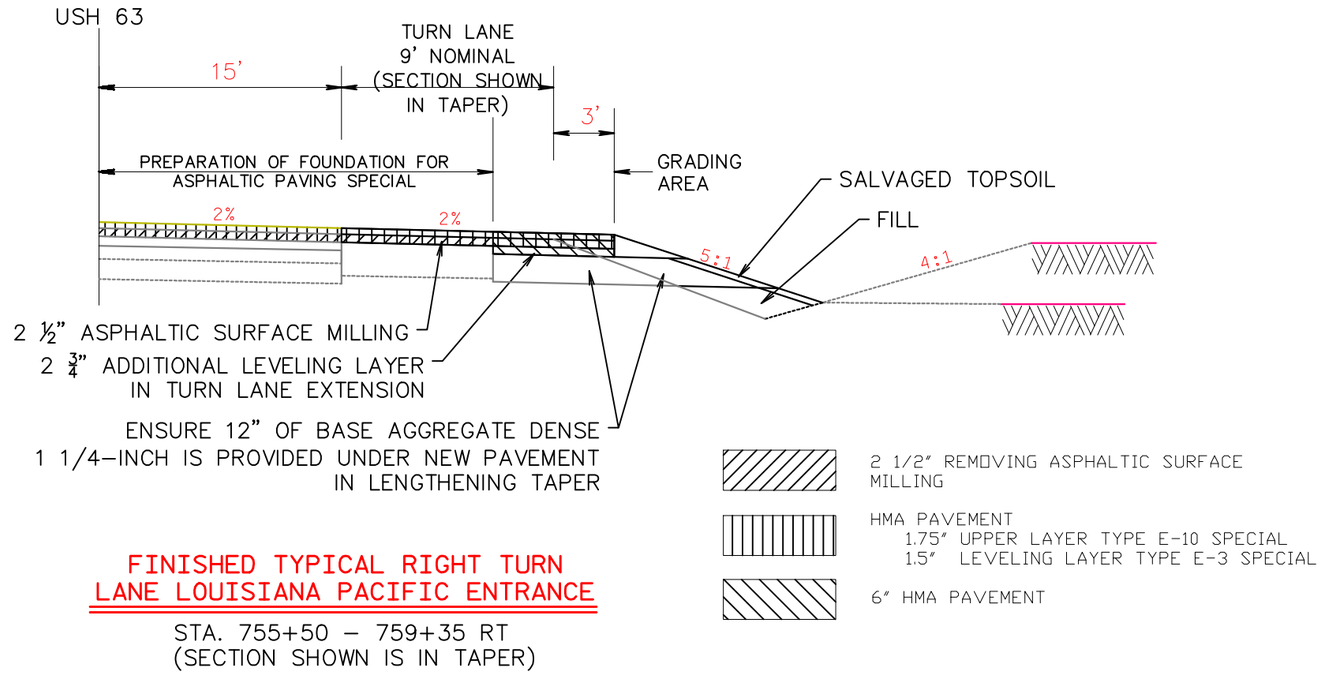
LEGION LANE
HAMILTON ROAD

PROJECT NO:1560–30–71	HWY: USH 63	COUNTY: WASHBURN	TYPICAL SECTIONS	SHEET 9	E



FINISHED TYPICAL BYPASS LANE

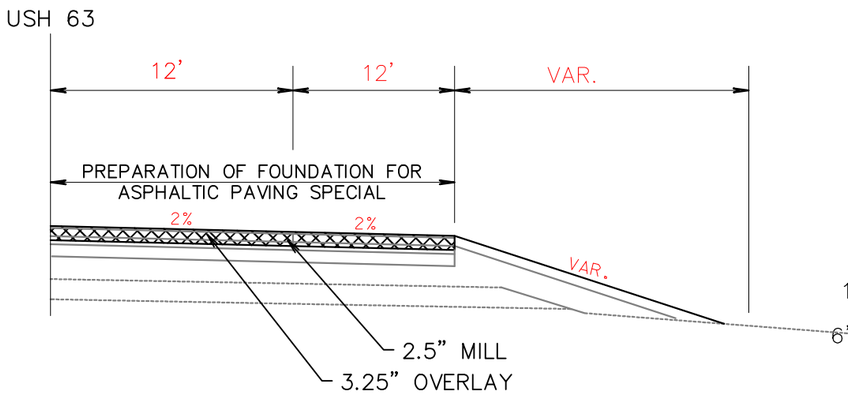
STA. 467+38 – 474+88 RT
STA. 703+30 – 711+22 LT
STA. 822+82 – 830+30 RT



FINISHED TYPICAL RIGHT TURN LANE LOUISIANA PACIFIC ENTRANCE

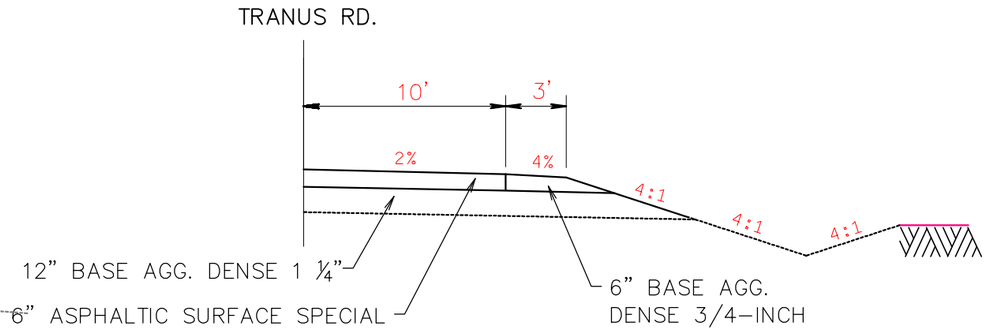
STA. 755+50 – 759+35 RT
(SECTION SHOWN IS IN TAPER)

PROJECT NO:1560–30–71	HWY:USH 63	COUNTY:WASHBURN	TYPICAL SECTIONS	SHEET 10	E

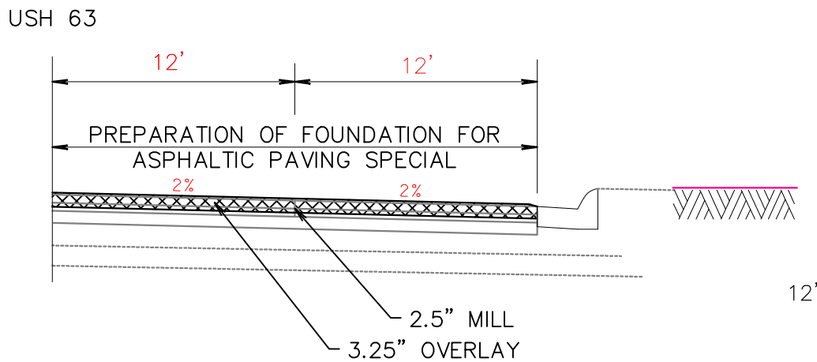


FINISHED TYPICAL HALF SECTION

STA. 869+16 – 873+63 LT
STA. 871+60 – 876+08 RT

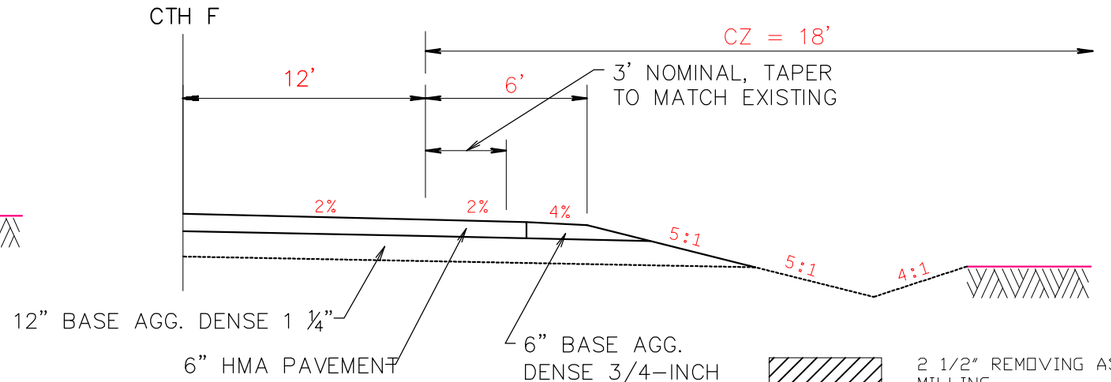


FINISHED TYPICAL HALF SECTION–TRANUS ROAD



FINISHED TYPICAL HALF SECTION

STA. 873+63 – 876+08 LT



FINISHED TYPICAL HALF SECTION
CTH F

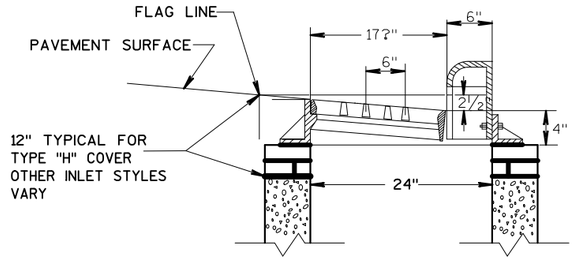
HMA PAVEMENT
1.75" UPPER LAYER TYPE E-10 SPECIAL
1.5" LEVELING LAYER TYPE E-3 SPECIAL
2.75" LEVELING LAYER TYPE E-3 SPECIAL

2 1/2" REMOVING ASPHALTIC SURFACE MILLING

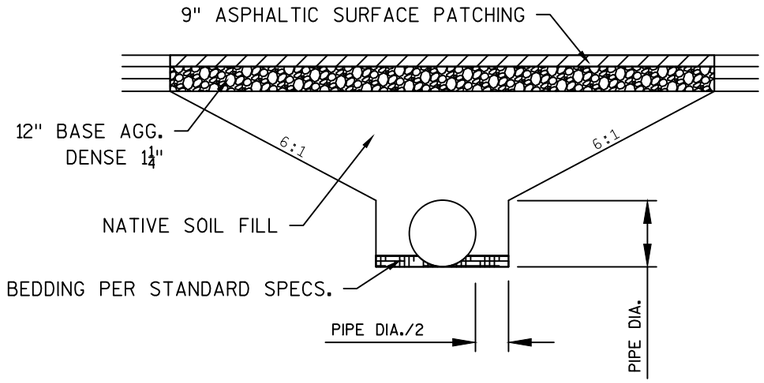
3 ¼" ASPHALTIC SURFACE SPECIAL

1 ¾" ASPHALTIC SURFACE SPECIAL
LEVELING LAYER

PROJECT NO:1560–30–71	HWY: USH 63	COUNTY: WASHBURN	TYPICAL SECTIONS	SHEET 11	E

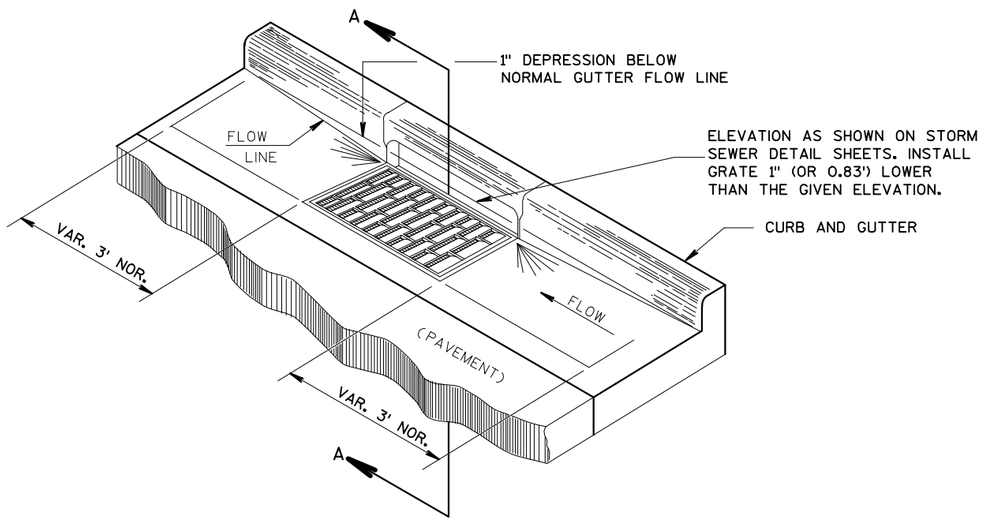


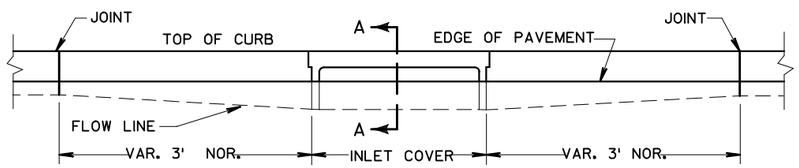
SECTION A-A



CULVERT EXCAVATION DETAIL

PROFILE VIEW



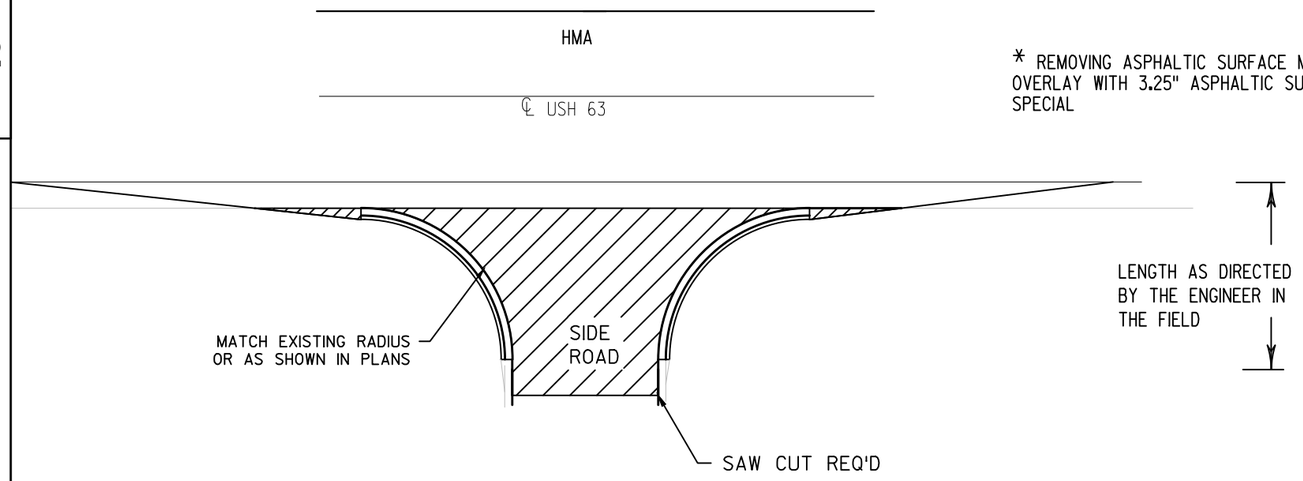


ELEVATION VIEW

DETAIL OF CURB AND GUTTER AT INELETS

(TYPE 3-H INLET SHOWN FOR INFORMATION ONLY)

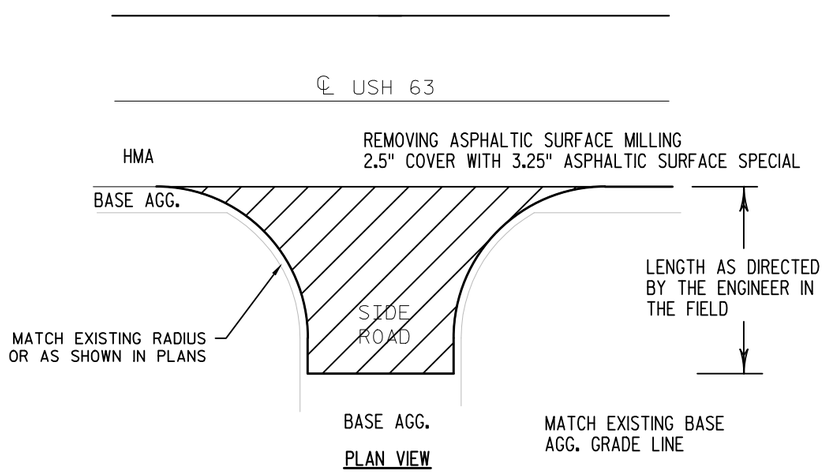
2



* REMOVING ASPHALTIC SURFACE MILLING 2.5" OVERLAY WITH 3.25" ASPHALTIC SURFACE SPECIAL

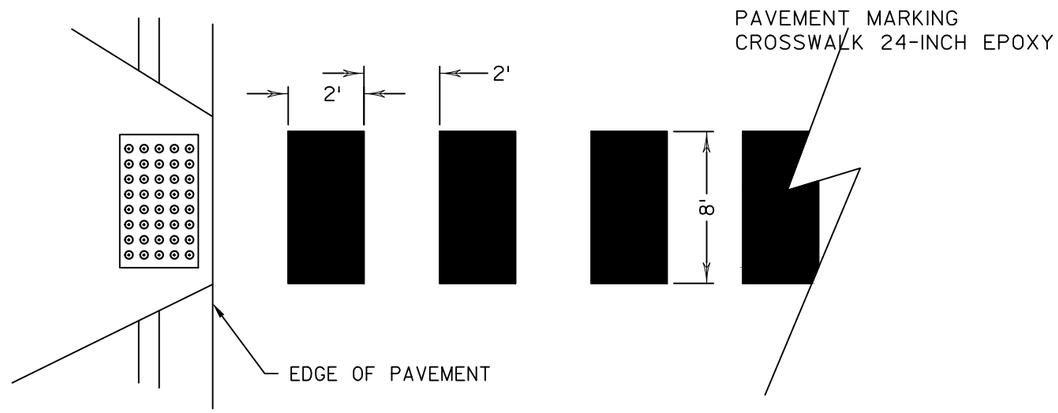
PLAN VIEW

SIDEROAD AND DRIVEWAY PAVING* DETAIL WITH CURB & GUTTER

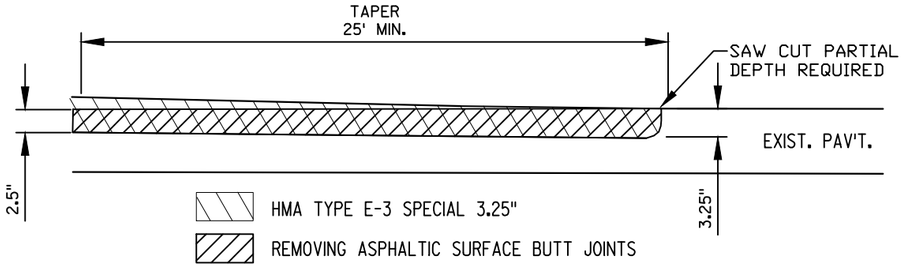


PLAN VIEW

SIDEROAD AND DRIVEWAY PAVING* DETAIL WITH ASPHALT APRON

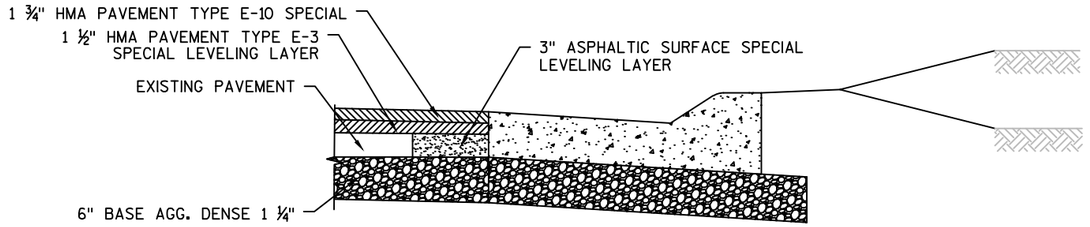


PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CONSTRUCTION DETAILS	SHEET 13	E



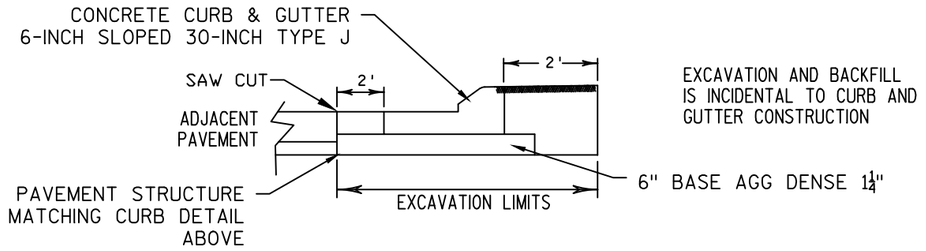
BUTTED JOINT DETAIL

STA 199+70 AND PAVED SIDE ROADS



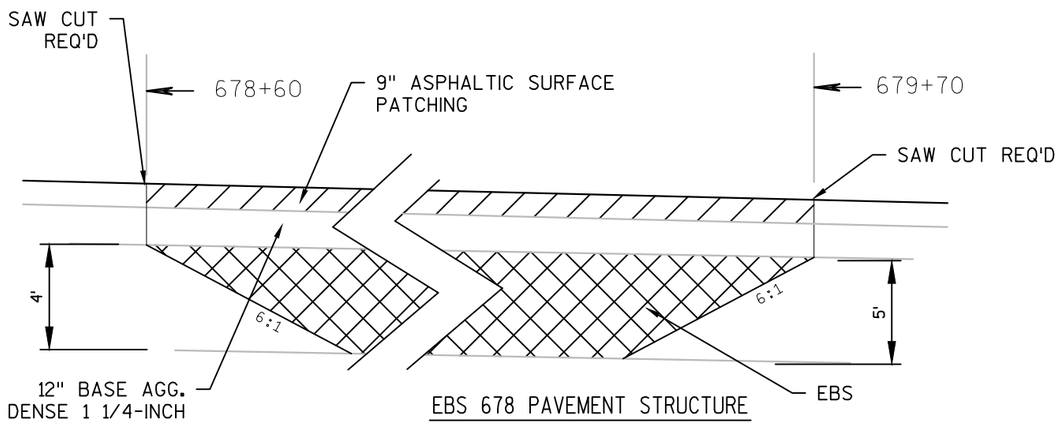
SIDE ROAD CURB PAVING DETAIL

MILL TO MATCH EXISTING OR PROPOSED GRADE LINE



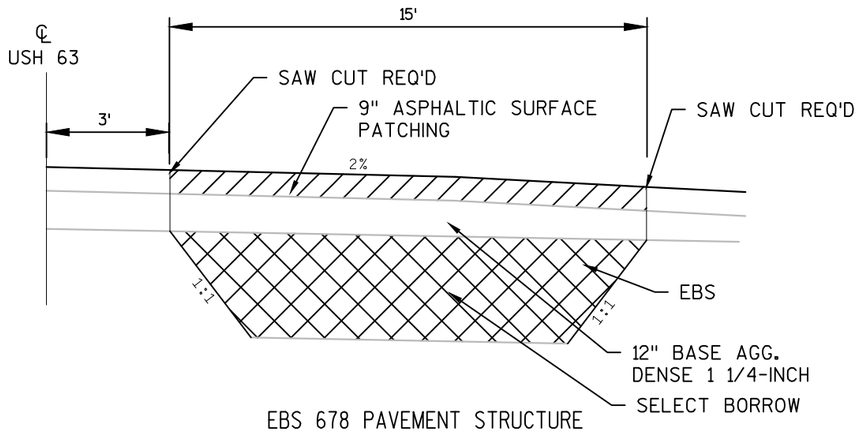
CONCRETE CURB & GUTTER DETAIL

SPRINGBROOK - STA. 203+91.3 - 217+75 LT



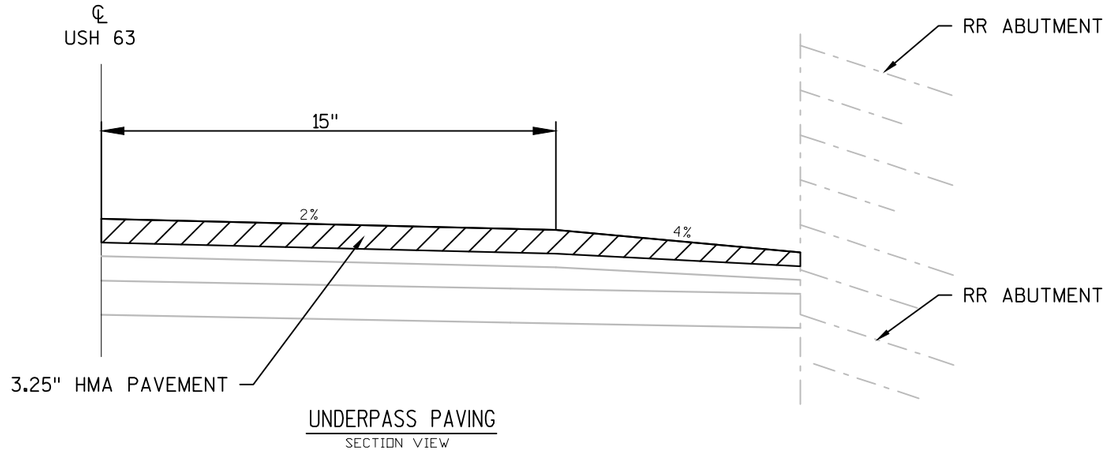
EBS 678 PAVEMENT STRUCTURE

PROFILE VIEW
STA 678+60 - 679+70

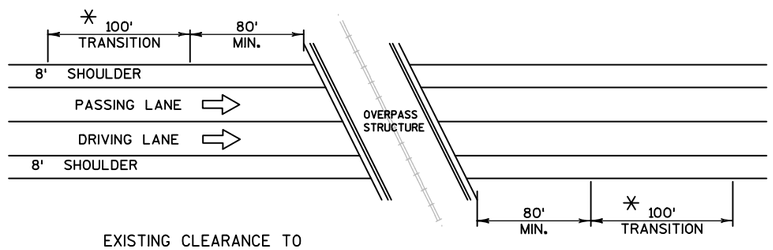


EBS 678 PAVEMENT STRUCTURE

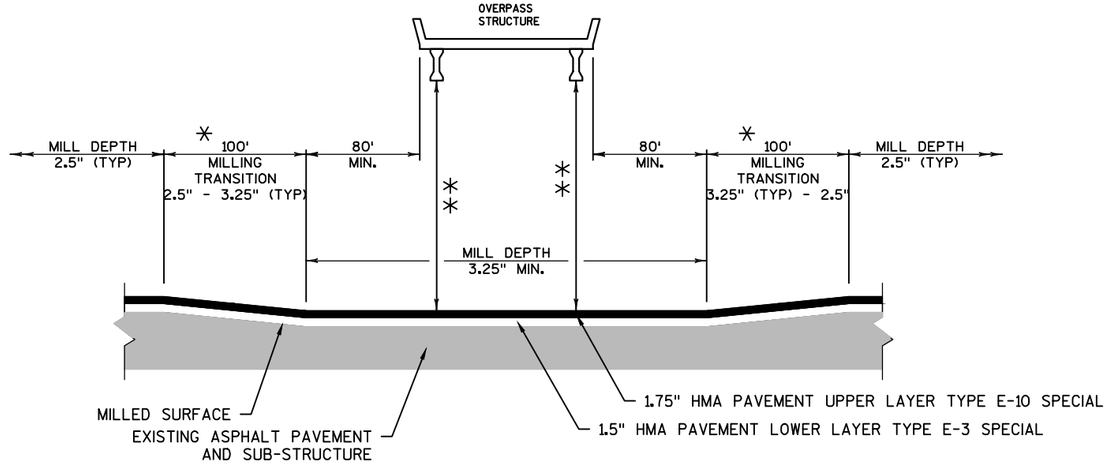
SECTION VIEW
STA 678+60 - 679+70



UNDERPASS PAVING
SECTION VIEW



PLAN VIEW



PROFILE VIEW

NOTES:

ADJUST THE MILLING DEPTH AND CROSS SLOPE TO ACHIEVE THE REQUIRED VERTICAL CLEARANCE FOR THE TRAVELED WAY AND FULL WIDTH OF SHOULDERS.

* 100' LENGTH OF MILLING TRANSITION IS ADEQUATE FOR A 1-INCH CHANGE IN MILL DEPTH. ADJUST LENGTH OF TRANSITION AS NECESSARY TO REFLECT THE ACTUAL CHANGE IN MILLING DEPTH REQUIRED IN THE FIELD.

** PROVIDE MINIMUM VERTICAL CLEARANCE OF 16'-0" OR MATCH EXISTING, WHICHEVER IS GREATER.

UNDERPASS PAVING DETAILS

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CONSTRUCTION DETAILS	SHEET 15	E

SUPERELEVATIONS

CURVE NO.	STATION	DESCRIPTION	LEFT OUTSIDE SHLDR	LEFT OUTSIDE LANE	RIGHT OUTSIDE LANE	RIGHT OUTSIDE SHLDR
1	222+10.03'	End Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
	222+61.03'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
	223+12.03'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
	223+63.03'	Begin Full Super	-4.00%	-4.00%	4.00%	4.00%
	231+48.23'	End Full Super	-4.00%	-4.00%	4.00%	4.00%
	231+99.23'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
	232+50.23'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
	233+01.23'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
2	259+44.01'	End Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
	259+95.23'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
	260+46.46'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
	260+97.69'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
	261+41.23'	Begin Full Super	5.70%	5.70%	-5.70%	-5.70%
	267+65.94'	End Full Super	5.70%	5.70%	-5.70%	-5.70%
	268+09.48'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
	268+60.71'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
	269+11.94'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
	269+63.16'	Begin Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
3	292+80.87'	End Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
	293+32.10'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
	293+83.33'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
	294+34.55'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
	294+78.10'	Begin Full Super	-5.70%	-5.70%	5.70%	5.70%
	300+87.75'	End Full Super	-5.70%	-5.70%	5.70%	5.70%
	301+31.30'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
	301+82.53'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
	302+33.75'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
	302+84.98'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%

2

SUPERELEVATIONS

CURVE NO.	STATION	DESCRIPTION	LEFT OUTSIDE SHLDR	LEFT OUTSIDE LANE	RIGHT OUTSIDE LANE	RIGHT OUTSIDE SHLDR
4	321+43.99'	End Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
	321+94.82'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
	322+45.66'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
	322+55.82'	Begin Full Super	2.40%	2.40%	-2.40%	-4.00%
	327+38.99'	End Full Super	2.40%	2.40%	-2.40%	-4.00%
	327+49.15'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
	327+99.99'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
	328+50.82'	Begin Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
5	366+78.35'	End Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
	367+29.35'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
	367+80.35'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
	368+31.35'	Begin Full Super	4.00%	4.00%	-4.00%	-4.00%
	374+73.77'	End Full Super	4.00%	4.00%	-4.00%	-4.00%
	375+24.77'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
	375+75.77'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
	376+26.77'	Begin Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
6	440+40.11'	End Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
	440+91.30'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
	441+42.48'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
	441+93.67'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
	442+42.30'	Begin Full Super	5.90%	5.90%	-5.90%	-5.90%
	451+81.63'	End Full Super	5.90%	5.90%	-5.90%	-5.90%
	452+30.26'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
	452+81.44'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
	453+32.63'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
	453+83.82'	Begin Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\CONST-DETAIL\15603071_CD.DWG
LAYOUT NAME - ****
PLOT DATE : 4/7/2015 10:13 AM
PLOT BY : PEARSON, MICHAEL R PLOT NAME : ---------- PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

SUPERELEVATIONS

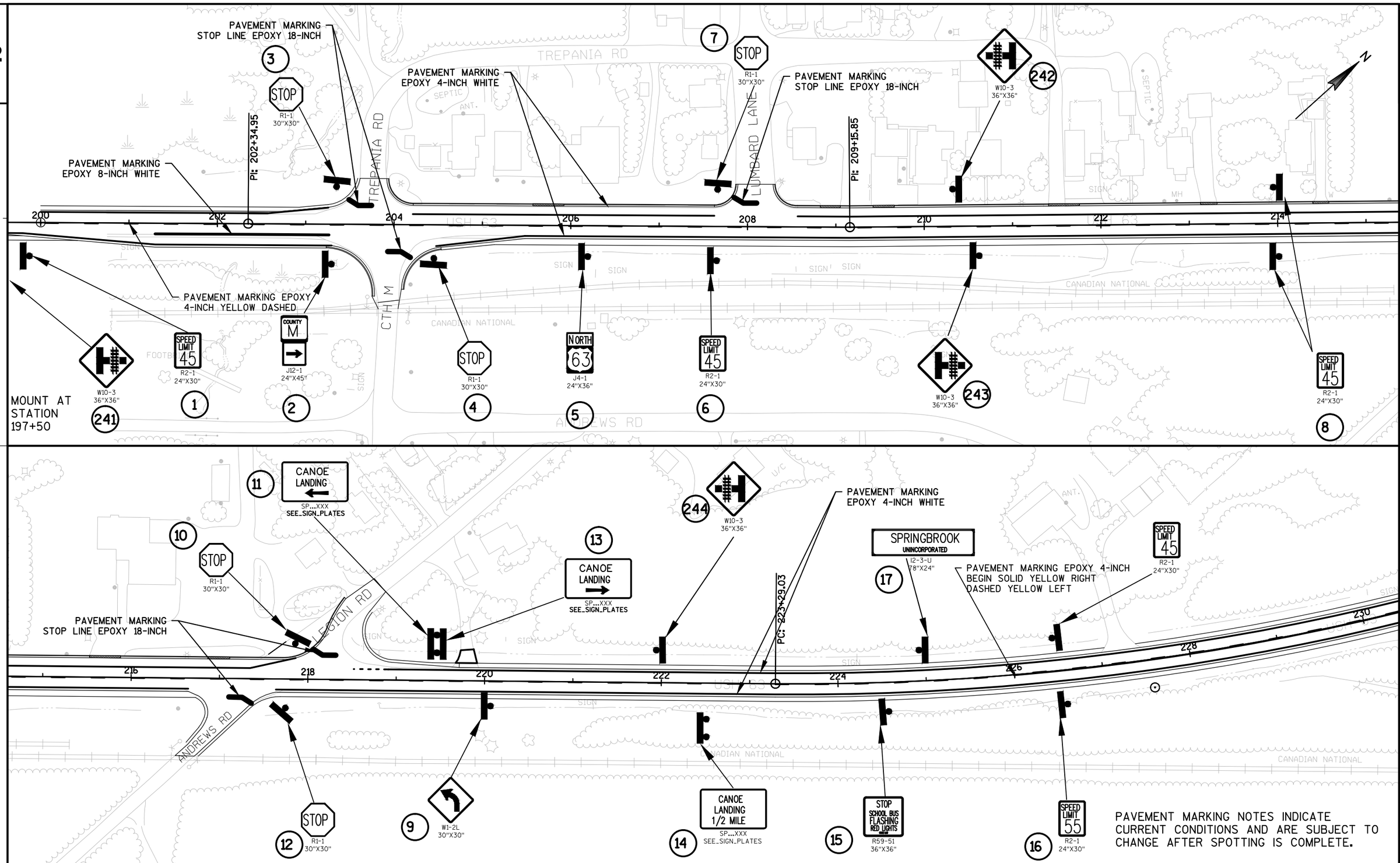
CURVE NO.	STATION	DESCRIPTION	LEFT OUTSIDE SHLDR	LEFT OUTSIDE LANE	RIGHT OUTSIDE LANE	RIGHT OUTSIDE SHLDR
7	525+63.79'	End Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
	526+15.02'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
	526+66.25'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
	527+17.48'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
	527+61.02'	Begin Full Super	5.70%	5.70%	-5.70%	-5.70%
	533+02.19'	End Full Super	5.70%	5.70%	-5.70%	-5.70%
	533+45.74'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
	533+96.96'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
	534+48.19'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
	534+99.42'	Begin Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
8	543+84.10'	End Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
	544+35.10'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
	544+86.10'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
	545+37.10'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
	545+88.10'	Begin Full Super	6.00%	6.00%	-6.00%	-6.00%
	557+63.94'	End Full Super	6.00%	6.00%	-6.00%	-6.00%
	558+14.94'	Low Shoulder Match	4.00%	4.00%	-4.00%	-4.00%
	558+65.94'	Reverse Crown	2.00%	2.00%	-2.00%	-4.00%
	559+16.94'	Level Crown	0.00%	0.00%	-2.00%	-4.00%
	559+67.94'	Begin Normal Crown	-2.00%	-2.00%	-2.00%	-4.00%
9	560+30.25'	End Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
	560+81.12'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
	561+31.99'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
	561+82.86'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
	561+98.12'	Begin Full Super	-4.60%	-4.60%	4.60%	4.60%
	591+37.90'	End Full Super	-4.60%	-4.60%	4.60%	4.60%
	591+53.16'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
	592+04.03'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
	592+54.90'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
	593+05.77'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%

SUPERELEVATIONS

CURVE NO.	STATION	DESCRIPTION	LEFT OUTSIDE SHLDR	LEFT OUTSIDE LANE	RIGHT OUTSIDE LANE	RIGHT OUTSIDE SHLDR
10	653+71.44'	End Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
	654+22.66'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
	654+73.88'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
	655+25.10'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
	655+27.66'	Begin Full Super	-4.10%	-4.10%	4.10%	4.10%
	667+30.16'	End Full Super	-4.10%	-4.10%	4.10%	4.10%
	667+32.72'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
	667+83.94'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
	668+35.16'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
	668+86.38'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
11	740+64.90'	End Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
	741+16.12'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
	741+67.34'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
	742+18.56'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
	742+21.12'	Begin Full Super	-4.10%	-4.10%	4.10%	4.10%
	755+93.96'	End Full Super	-4.10%	-4.10%	4.10%	4.10%
	755+96.52'	Low Shoulder Match	-4.00%	-4.00%	4.00%	4.00%
	756+47.74'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
	756+98.96'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
	757+50.18'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
12	866+70.59'	End Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%
	867+06.59'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
	867+42.59'	Begin Full Super	-4.00%	-2.00%	2.00%	2.00%
	867+42.59'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
	870+93.40'	End Full Super	-4.00%	-2.00%	2.00%	2.00%
	870+93.40'	Reverse Crown	-4.00%	-2.00%	2.00%	2.00%
	871+29.40'	Level Crown	-4.00%	-2.00%	0.00%	0.00%
	871+65.40'	Begin Normal Crown	-4.00%	-2.00%	-2.00%	-2.00%

2

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\CONST-DETAIL\15603071_CD.DWG
LAYOUT NAME - ****
PLOT DATE : 4/7/2015 10:13 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : ---------- PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-WASH-MAINLINE.DWG PLOT DATE : 2/5/2015 4:28 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 44

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.

18
SPEED LIMIT 45
W3-5
36"X36"

NO PASSING ZONE
W14-3
48"X36"

CANOE LANDING
20A
SP...XXX
SEE_SIGN_PLATES

PT: 231+82.22

230 232 234 236 238 240 242 244

PAVEMENT MARKING EPOXY 4-INCH DOUBLE YELLOW CENTERLINE

LARSON.ROAD.===>
D1-1
SEE_SIGN_PLATES
19

20
CANOE LANDING
SP...XXX
SEE_SIGN_PLATES

LARSON RD

PAVEMENT MARKING STOP LINE EPOXY 18-INCH

STOP
R1-1
30"X30"

21
<===.LARSON.ROAD
D1-1
SEE_SIGN_PLATES

23
R7-1D
18"X24"

26
W5-52L
12"X36"

27
W5-52R
12"X36"

30
R7-1D
18"X24"

31
R7-1D
18"X24"

33
STOP
R1-1
30"X30"

PAVEMENT MARKING EPOXY 4-INCH

PAVEMENT MARKING EPOXY 4-INCH WHITE 3' PAINT, 9' GAP

HAMILTON RD

246 248 250 252 254 256 258 260

PAVEMENT MARKING STOP LINE EPOXY 18-INCH

R7-1-L
18"X24"

<===.HAMILTON.ROAD
D1-1
SEE_SIGN_PLATES
22

24
R7-1D
18"X24"

25
W5-52R
12"X36"

28
W5-52L
12"X36"

29
R7-1D
18"X24"

34
W1-2R
30"X30"

32
R7-1D
18"X24"

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-WASH-MAINLINE.DWG PLOT DATE : 2/5/2015 4:29 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 44

2

36

NO PARKING
R7-1D
18"X24"

PC: 260+92.57

260 262 264 266 268 270 272 274

BEGIN SOLID YELLOW LEFT
DASHED YELLOW RIGHT

PT: 268+14.60

38

HAMILTON.ROAD.===>
D1-1
SEE_SIGN_PLATES

39

CANOE LANDING
SP-___XXX
SEE_SIGN_PLATES

40

W1-2L
30"X30"

N

NO PARKING
R7-1-R
18"X24"

37

PASSING LANE AHEAD 2 MILES
R4-51-A
36"X48"

ADOPT A HIGHWAY
R5-17
155-56
30"X36"

35

USH 63

SIGN

276 278 280 282 284 286 288 290

BEGIN SINGLE YELLOW
DASHED CENTERLINE

41

NO PASSING ZONE
W14-3
48"X36"

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.

NAMEKAGON R

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-WASH-MAINLINE.DWG PLOT DATE : 2/5/2015 4:30 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 44

2

BEGIN SOLID YELLOW RIGHT
DASHED YELLOW LEFT

43

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.

NO PASSING ZONE
W14-3
48"X36"

290 292 294 296 298 300 302 304

PC: 294+29.44

PT: 301+36.42

44

42
W1-2L
30"X30"

BEGIN DOUBLE YELLOW

WAYSIDE
1/2 MILE
D5-61
48"X24"

45

ONCOMING TRAFFIC USES CENTER LANE
R3-72
30"X36"

2

46
W1-2R
30"X30"

47
W4-2R
36"X36"

PAVEMENT MARKING EPOXY
4-INCH WHITE PASSING LANE

306 308 310 312 314 316 318 320

48
W4-2R
36"X36"

PAVEMENT MARKING NOTES INDICATE CURRENT CONDITIONS AND ARE SUBJECT TO CHANGE AFTER SPOTTING IS COMPLETE.

NO PASSING ZONE
W14-3
48"X36"

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-WASH-MAINLINE.DWG
PLOT DATE : 2/5/2015 4:31 PM
PLOT BY : JORGENSON, MARY B
PLOT NAME :
PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 44

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.

49 RIGHT LANE ENDS
W9-1R
36"X36"

52 WAYSIDE
D5-62-L
48"X24"

PC: 322+35.49

PT: 327+59.32

PAVEMENT MARKING
EPOXY 4-INCH WHITE

PAVEMENT MARKING
EPOXY 8-INCH WHITE

PAVEMENT MARKING EPOXY
4-INCH DOUBLE YELLOW

51 WAYSIDE
D5-62-R
48"X24"

STOP
R1-1
30"X30"

STOP
R1-1
30"X30"

53 DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE
R4-53
54"X54"

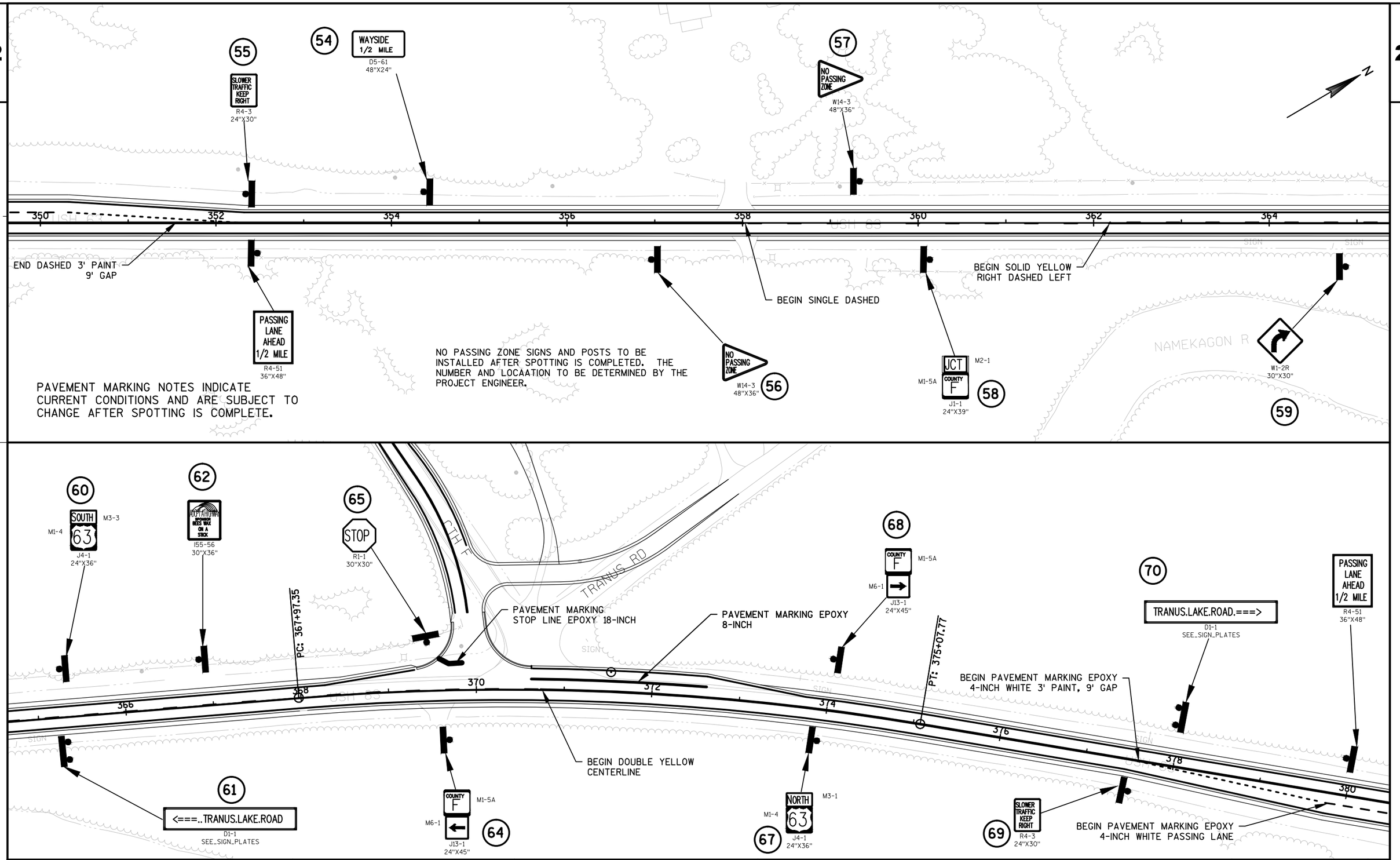
END PAVEMENT MARKING
EPOXY 4-INCH DASHED WHITE
12.5' PAINT, 37.5' GAP

BEGIN PAVEMENT MARKING EPOXY 4-INCH
WHITE DASHED 3' PAINT 9' GAP

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-WASH-MAINLINE.DWG PLOT DATE : 2/5/2015 4:32 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 44

2



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET 23	E

2

71

W1-2L
30"X30"

245

M1-5A

JCT
COUNTY
F

M2-1

J1-1
24"X39"

N

2

380 382 384 386 388 390 392 394

USH 63

NO PASSING ZONE

W14-3
48"X36"

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.

74

75

W4-2R
36"X36"

PI: 398+99.69

DOUBLE YELLOW

396 398 400 402 404 406 408 410

USH 63

USH 63

SIGN

RIGHT LANE ENDS

W9-1R
36"X36"

73

72

CANOE LANDING 1/2 MILE

SP...XXX
SEE_SIGN_PLATES

76

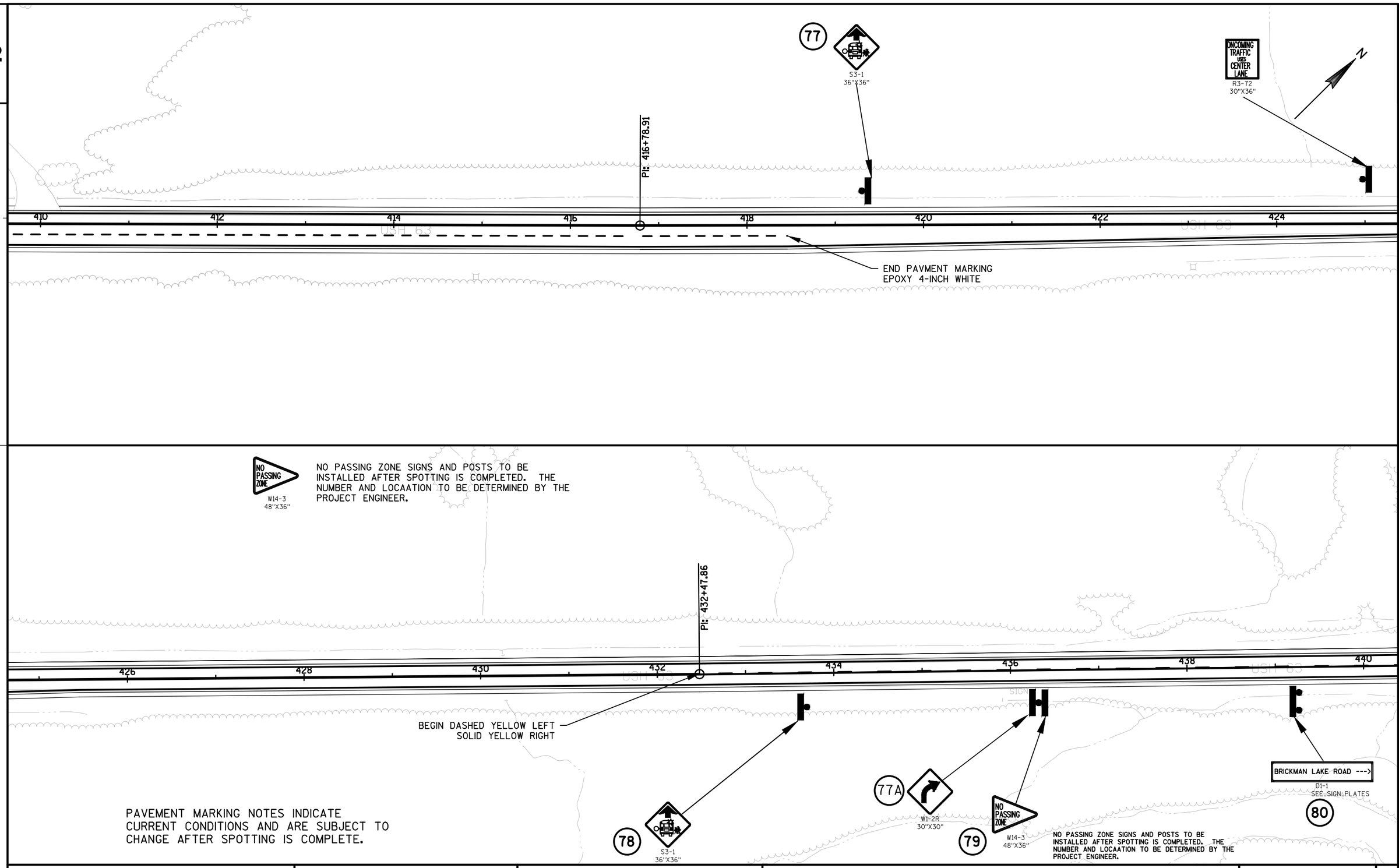
W4-2R
36"X36"

PAVEMENT MARKING NOTES INDICATE CURRENT CONDITIONS AND ARE SUBJECT TO CHANGE AFTER SPOTTING IS COMPLETE.

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET	E

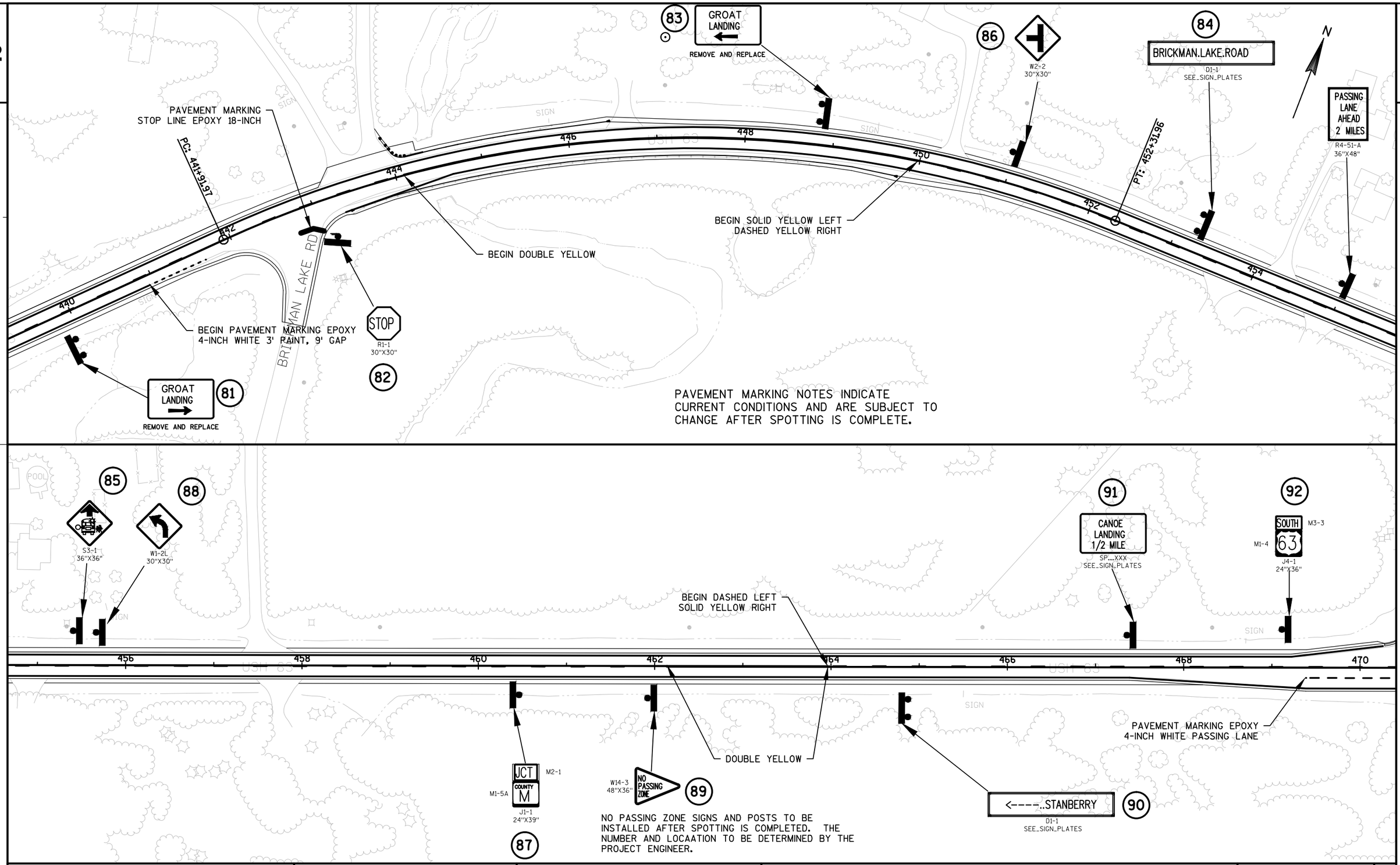
FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-WASH-MAINLINE.DWG PLOT DATE : 2/5/2015 4:34 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 44



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-WASH-MAINLINE.DWG
PLOT DATE : 2/5/2015 4:35 PM
PLOT BY : JORGENSON, MARY B
PLOT NAME :
PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 44



PAVEMENT MARKING NOTES INDICATE CURRENT CONDITIONS AND ARE SUBJECT TO CHANGE AFTER SPOTTING IS COMPLETE.

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET	E

2

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.

94 STOP R1-1 30"X30"

PAVEMENT MARKING STOP LINE EPOXY 18-INCH

CTH M

97 COUNTY M M1-5A; M6-1; J12-1 24"X45"

PAVEMENT MARKING EPOXY 8-INCH WHITE

101 STANBERRY..---> D1-1 SEE_SIGN_PLATES

NO PASSING ZONE W14-3 48"X36"

103 JCT COUNTY M M2-1; M1-5A; J1-1 24"X39"

N

470 472 474 476 478 480 482 484 USH 63

SIGN

93 COUNTY M M1-5A 24"X24"; M6-1 21"X21"; J12-1 24"X45"

95 W1-7 48"X24"

96 63 M1-4 24"X24"

99 W12-2 36"X36"; AHEAD W16-9P 24"X8"

98

100 NORTH 63 M1-4; M3-1; J4-1 24"X36"

SIGN

BEGIN DOUBLE YELLOW

105 W5-52L 12"X36"

107 W5-52R 12"X36"

14'-10" W12-2 36"X36"

109 STOP R1-1 30"X30"

TANBERRY RD

PAVEMENT MARKING STOP LINE EPOXY 18-INCH

PI: 494+29.14

PI: 497+24.02

BEGIN SOLID YELLOW LEFT DASHED YELLOW RIGHT

486 488 490 492 494 496 498 500 USH 63

SIGN

<--STANBERRY.ROAD D1-1 SEE_SIGN_PLATES 104

102 14'-10" W12-2 36"X36"

W5-52R 12"X36" 106

W5-52L 12"X36" 108

CANADIAN NATIONAL

PAVEMENT MARKING NOTES INDICATE CURRENT CONDITIONS AND ARE SUBJECT TO CHANGE AFTER SPOTTING IS COMPLETE.

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-WASH-MAINLINE.DWG PLOT DATE : 2/5/2015 4:37 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 44

2

(110) STANBERRY.ROAD-->
D1-1
SEE_SIGN_PLATES

N

BEGIN SINGLE DASHED

500 502 504 506 508 510 512 514

USH 63

NO PASSING ZONE
W14-3
48"X36"
(112)

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.

(113)
NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.

NO PASSING ZONE
W14-3
48"X36"

4'-10"
W12-2
36"X36"
(246)
AHEAD
W16-9P
24"X8"
(247)

PI: 522+88.81

PC: 527+12.36

BEGIN DOUBLE YELLOW

BEGIN SOLID RIGHT AND DASHED LEFT

516 518 520 522 524 526 528 530

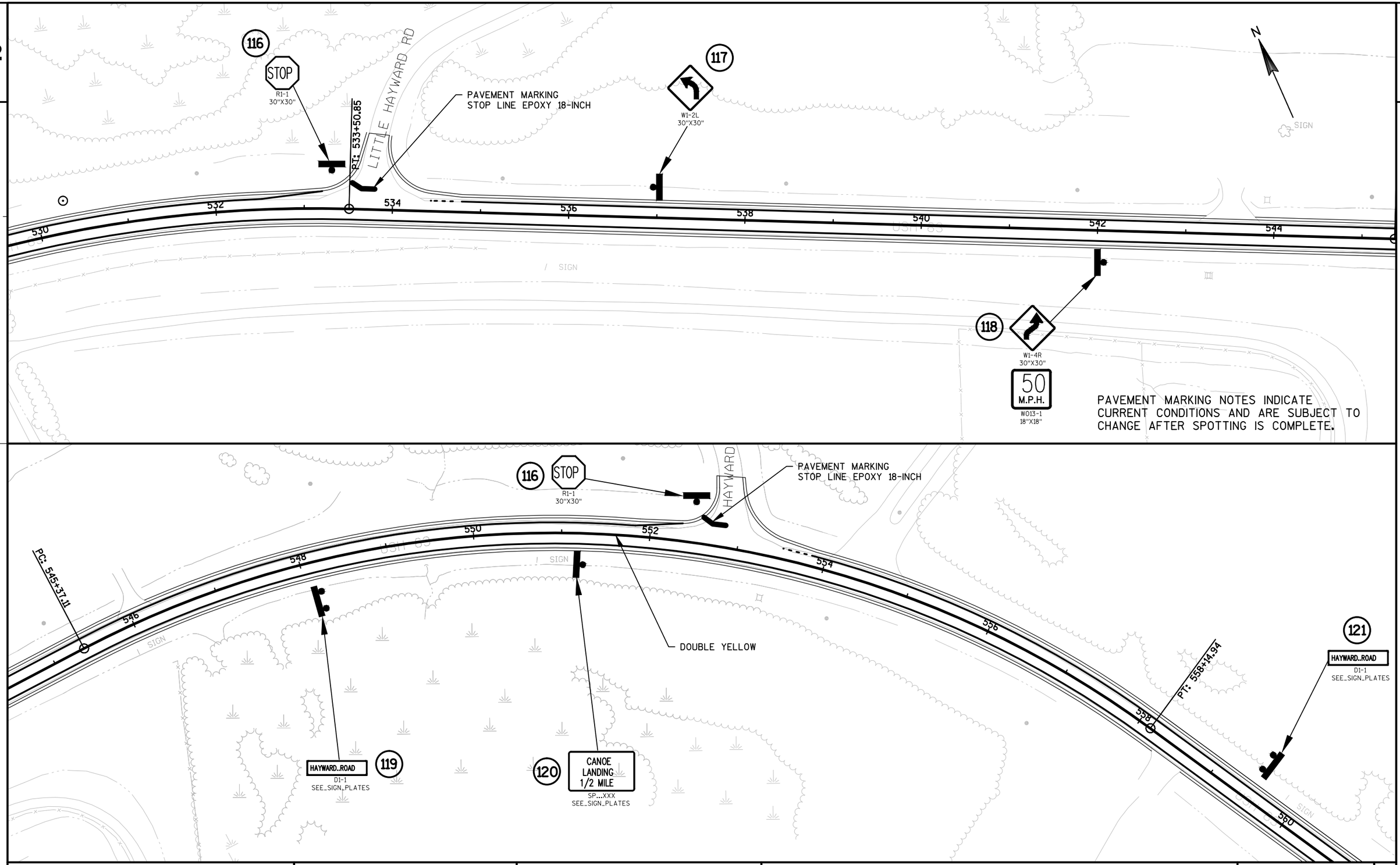
USH 63

(114)
W1-2R
30"X30"

PAVEMENT MARKING NOTES INDICATE CURRENT CONDITIONS AND ARE SUBJECT TO CHANGE AFTER SPOTTING IS COMPLETE.

(115)
STOP
R1-1
30"X30"

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET 28	E



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-WASH-MAINLINE.DWG
PLOT DATE : 2/5/2015 4:39 PM
PLOT BY : JORGENSON, MARY B
PLOT NAME :
PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 44

2

N

PC: 561+59.12

560 562 564 566 568 570 572 574

USH 63

I SIGN

124
SOUTH 63
M1-4
M3-3
J4-1
24"X36"

125
STOP
R1-1
30"X30"

PAVEMENT MARKING EPOXY
8-INCH WHITE

W14-3
48"X36"
NO PASSING ZONE

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.

JCT
COUNTY E
M2-1
M1-5A
J1-1
24"X39"
122

S3-1
36"X36"
123

127
COUNTY E
M1-5A
M6-1
J12-1
24"X45"

135
STINNETT LANDING ROAD
D1-1
SEE_SIGN_PLATES

134
STINNETT LANDING
REMOVE AND REPLACE

576 578 580 582 584 586 588 590

CANADIAN NATIONAL

PAVEMENT MARKING
STOP LINE EPOXY 18-INCH

PAVEMENT MARKING
STOP LINE EPOXY 18-INCH

CTH E

STINNETT LANDING

STOP
R1-1
30"X30"
133

BEGIN PAVEMENT MARKING EPOXY
4-INCH WHITE 3' PAINT, 9' GAP

SEPTIC

126
COUNTY E
M1-5A
M6-1
J12-1
24"X45"

128
STOP
R1-1
30"X30"

129
NORTH 63
M3-1
M1-4
J4-1
24"X36"

130
STINNETT LANDING ROAD
D1-1
SEE_SIGN_PLATES

131
155-56
30"X36"

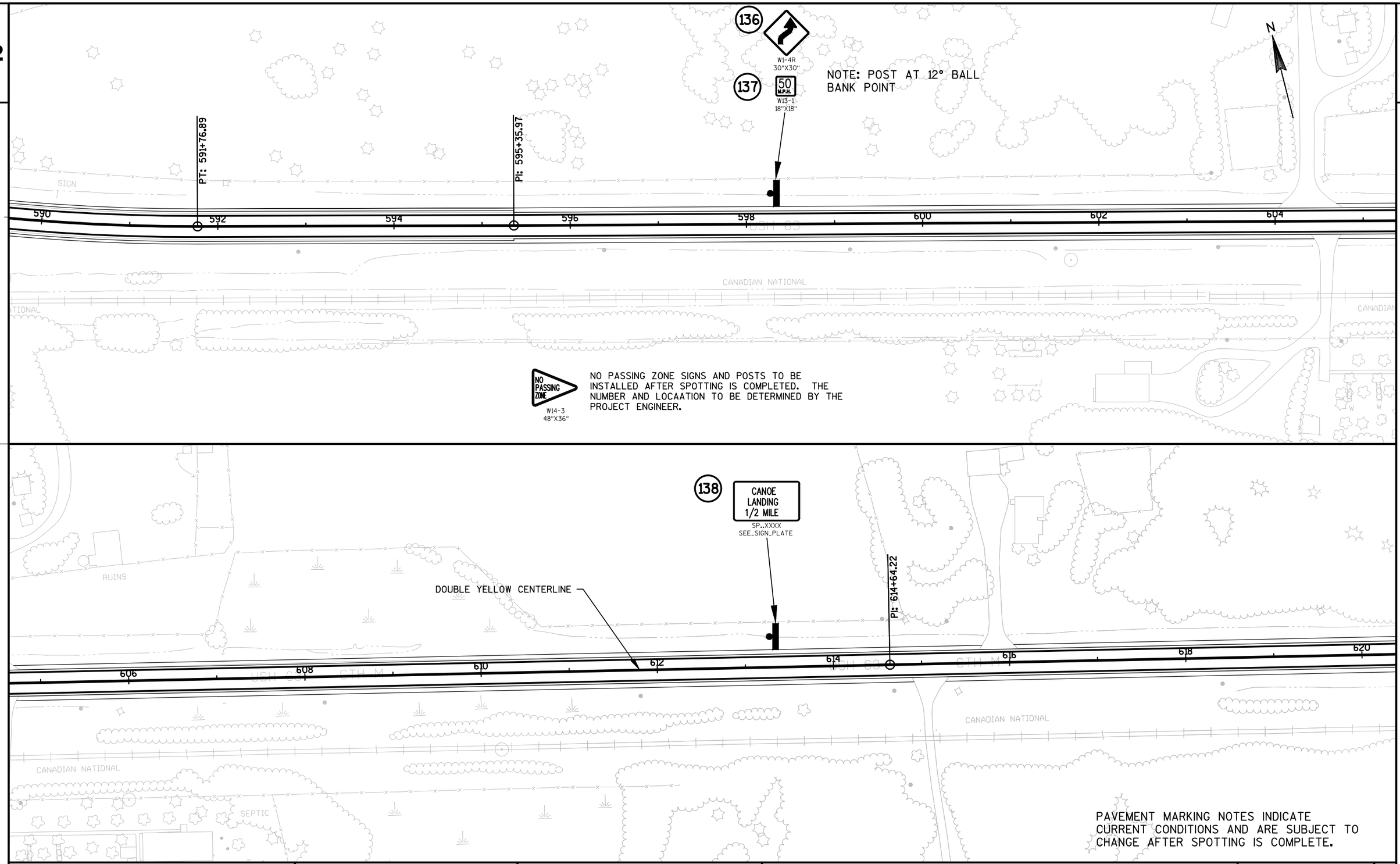
132
STINNETT LANDING
REMOVE AND REPLACE

PAVEMENT MARKING NOTES INDICATE CURRENT CONDITIONS AND ARE SUBJECT TO CHANGE AFTER SPOTTING IS COMPLETE.

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-WASH-MAINLINE.DWG PLOT DATE : 2/5/2015 4:40 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1:100_XREF

2



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-WASH-MAINLINE.DWG PLOT DATE : 2/5/2015 4:42 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 44

2

2

N

SIGN

620 622 USH 63 624 CTH M 626 628 630 USH 63 632 CTH M 634

CANADIAN NATIONAL

CANADIAN NATIONAL

E RIVER RD

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.



W14-3
48"X36"

PAVEMENT MARKING NOTES INDICATE CURRENT CONDITIONS AND ARE SUBJECT TO CHANGE AFTER SPOTTING IS COMPLETE.

SIGN

SIGN

SIGN

SIGN

636 638 640 USH 63 642 CTH M 644 646 648 650

CANADIAN NATIONAL

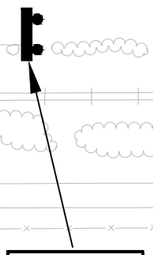
E RIVER RD



W10-3
36"X36"

248

139



D1-1
SEE_SIGN_PLATES

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-WASH-MAINLINE.DWG PLOT DATE : 2/5/2015 4:43 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 44

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.

NO PASSING ZONE
W14-3
48"X36"

W10-3
36"X36"
246

N

PC: 654+92.66

650 652 654 656 658 650 662 664

PAVEMENT MARKING
STOP LINE EPOXY 18-INCH

RIVER ROAD

STOP
R1-1
30"X30"
141

E RIVER RD

W1-2L
30"X30"
140

CANADIAN NATIONAL

USH 63 CTH M

SIGN

RIVER ROAD
D1-1
SEE_SIGN_PLATES
142

143
W1-2R
30"X30"

PT: 667+65.15

666 668 670 672 674 676 678 680

PAVEMENT MARKING NOTES INDICATE CURRENT CONDITIONS AND ARE SUBJECT TO CHANGE AFTER SPOTTING IS COMPLETE.

BEGIN SOLID YELLOW LEFT
DASHED YELLOW RIGHT

W10-3
36"X36"
247

RIVER ROAD ALLEY
D1-1
SEE_SIGN_PLATES
144

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-WASH-MAINLINE.DWG PLOT DATE : 2/5/2015 4:44 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 44

2

146
RIVER ROAD ALLEY
D1-1
SEE_SIGN_PLATES

245
W10-3
36"X36"

SOUTH
63
M3-3
M1-4
J4-1
24"X36"

149

148
I55-56
30"X36"

N

COUNTY LINE

680 682 684 686 688 690 692 694

USH 63 CTH M

PAVEMENT MARKING EPOXY
4-INCH WHITE 3' PAINT, 9' GAP

PAVEMENT MARKING
STOP LINE EPOXY 18-INCH

BEGIN DASHED YELLOW

CANADIAN NATIONAL

CANADIAN NATIONAL

CANADIAN NAT

RIVER ROAD ALLEY

SIGN

E RIVER RD

STOP
R1-1
30"X30"
145

AUTO
SALVAGE

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.

NO
PASSING
ZONE
W14-3
48"X36"
147

150
WASHBURN COUNTY
I2-2
SEE_SIGN_PLATES

END WASHBURN COUNTY
BEGIN SAWYER COUNTY

692 694 696 698 700 702 704 706

USH 63 CTH M

CANADIAN NATIONAL

CANADIAN NATIONAL

E RIVER RD

151
SAWYER COUNTY
I2-2
SEE_SIGN_PLATES

NORTH
63
M3-1
M1-4
J4-1
24"X36"
152

153
I55-56
30"X36"

PAVEMENT MARKING NOTES INDICATE CURRENT CONDITIONS AND ARE SUBJECT TO CHANGE AFTER SPOTTING IS COMPLETE.

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNS AND PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-WASH-MAINLINE.DWG PLOT DATE : 2/5/2015 4:45 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 44

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.

NO PASSING ZONE
W14-3
48"X36"

N

PAVEMENT MARKING EPOXY
4-INCH WHITE, 12.5' PAINT,
37.5' GAP

STA 706+54

STA 709+05

STA 703+25

COUNTY LINE

695

USH 63

700

705

USH 63

STA 701+87

STA 703+90

CANADIAN NATIONAL

PAVEMENT MARKING STOP
LINE EPOXY 18-INCH

KRUGER RD

SIGN

PAVEMENT MARKING EPOXY
4-INCH YELLOW SINGLE DASHED

237

W10-3
36"X36"

PAVEMENT MARKING EPOXY
8-INCH WHITE

E RIVER RD

STOP
R1-1
30"X30"

155

A/C

156

NO PASSING ZONE
W14-3
48"X36"

238

W10-3
36"X36"

A.C.

SIGN

END PAVEMENT MARKING EPOXY
4-INCH WHITE EDGE LINE

W

SIGN

SIGN

PAVEMENT MARKING EPOXY 4-INCH
YELLOW SOLID LEFT DASHED RIGHT

STA 711+22

710

715

USH 63

720

USH 63

CANADIAN NATIONAL

CANADIAN NATIONAL

PAVEMENT MARKING EPOXY
4-INCH YELLOW DASHED LEFT,
SOLID RIGHT

SIGN

SIGN

NO PASSING ZONE
W14-3
48"X36"

157

PAVEMENT MARKING NOTES INDICATE
CURRENT CONDITIONS AND ARE SUBJECT TO
CHANGE AFTER SPOTTING IS COMPLETE.

SUBSTATION

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET 35	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-SAWYER-MAINLINE.DWG PLOT DATE : 2/5/2015 4:06 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.

END PAVEMENT MARKING EPOXY 4-INCH EDGE LINE STA 725+00 BEGIN TAPER

PAVEMENT MARKING EPOXY 4-INCH WHITE PASSING LANE STA 732+00 FULL WIDTH

PAVEMENT MARKING EPOXY 4-INCH, 3-FOOT PAINT, 9-FOOT GAP

PAVEMENT MARKING EPOXY 4-INCH DOUBLE YELLOW

PAVEMENT MARKING STOP LINE EPOXY 18-INCH

PAVEMENT MARKING EPOXY 4-INCH YELLOW DASHED RIGHT, SOLID LEFT

PAVEMENT MARKING EPOXY 4-INCH SOLID LEFT, DASHED RIGHT

PI STA = 749+21.25
Y = 427868.507
X = 606966.710
DELTA = 29°43'23"
D = 2°03'35"
T = 738.20'
L = 1443.15'
R = 2781.90'
PC STA = 741+83.04
PT STA = 756+26.19

PC: 741+83.04

239 W10-3 36"X36"

240 W10-3 36"X36"

158 W1-2L 30"X30"

159 W4-2R 36"X36"

160 W4-2R 36"X36"

161 STOP R1-1 30"X30"

163 RIGHT LANE ENDS W9-1R 36"X36"

164 ONCOMING TRAFFIC USES CENTER LANE R3-72 30"X36"

165 PLANT ENTRANCE W54-56 30"X30"

166 TRUCK ENTRANCE W54-57 30"X30"

DO NOT PASS WHEN ONCOMING TRAFFIC IN EITHER LANE R4-53 54"X54"

725 730 735 740 745 750

USH 63

N BOYS CAMP RD

CANADIAN NATIONAL

QUARRY SEPTIC SIGN SCALE

PAVEMENT MARKING NOTES INDICATE CURRENT CONDITIONS AND ARE SUBJECT TO CHANGE AFTER SPOTTING IS COMPLETE.

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-SAWYER-MAINLINE.DWG PLOT DATE : 2/5/2015 4:07 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

NO PASSING ZONE SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETED. THE NUMBER AND LOCAATION TO BE DETERMINED BY THE PROJECT ENGINEER.

168 NO PASSING ZONE W14-3 48"X36"

170 W1-2R 30"X30"

PAVEMENT MARKING STOP LINE EPOXY 18-INCH

PT: 756+26.19

PAVEMENT MARKING STOP LINE EPOXY 18-INCH

755 760 765

USH 63

STA 755+50

STA 757+00

PAVEMENT MARKING EPOXY 4-INCH DOUBLE YELLOW

LP PLANT ENTRANCE

PAVEMENT MARKING 8-INCH WHITE

169 STOP R1-1 30"X30"

OLD 24

SIGN

CANADIAN NATIONAL

173 I55-56 30"X36"

174 SLOWER TRAFFIC KEEP RIGHT R4-3 24"X30"

BEGIN TAPER STA 781+93

END TAPER STA 784+11

PAVEMENT MARKING EPOXY 4-INCH YELLOW SOLID LEFT, DASHED RIGHT

770 775 780

USH 63

PAVEMENT MARKING EPOXY 4-INCH WHITE, 3' PAINT, 9' GAP

PAVEMENT MARKING STOP LINE EPOXY 18-INCH

TIMBERLAWN RD

171 STOP R1-1 30"X30"

172 ONCOMING TRAFFIC USES CENTER LANE R3-72 30"X36"

OLD 24

MINI GOLF COURSE

PAVEMENT MARKING NOTES INDICATE CURRENT CONDITIONS AND ARE SUBJECT TO CHANGE AFTER SPOTTING IS COMPLETE.

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-SAWYER-MAINLINE.DWG PLOT DATE : 2/5/2015 4:08 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

177
NO PASSING ZONE
W14-3
48"X36"

PAVEMENT MARKING NOTES INDICATE
CURRENT CONDITIONS AND ARE SUBJECT TO
CHANGE AFTER SPOTTING IS COMPLETE.

PAVEMENT MARKING EPOXY 4-INCH
YELLOW SOLID RIGHT, DASHED LEFT

SIGN
SIGN
SIGN
SIGN

785
USH 63
790
795
USH 63

PAVEMENT MARKING EPOXY
4-INCH YELLOW, DASHED CTR

INL

SIGN
SIGN
SIGN

175
NO PASSING ZONE
W14-3
48"X36"

PAVEMENT MARKING NOTES INDICATE
CURRENT CONDITIONS AND ARE SUBJECT TO
CHANGE AFTER SPOTTING IS COMPLETE.

OLD 24
OLD 24

PAVEMENT MARKING NOTES INDICATE
CURRENT CONDITIONS AND ARE SUBJECT TO
CHANGE AFTER SPOTTING IS COMPLETE.

179
PASSING LANE AHEAD 1/2 MILE
R4-51
36"X48"

PAVEMENT MARKING EPOXY
4-INCH DOUBLE YELLOW

PAVEMENT MARKING
STOP LINE EPOXY 18-INCH

181
STOP
R1-1
30"X30"

PAVEMENT MARKING EPOXY
4-INCH, 3-FOOT PAINT,
3-FOOT GAP

184
SOUTH
63
M3-3
M1-4
J4-1
24"X36"

183
SPOONER 25
D2-1
SEE_SIGN_PLATES

SIGN
SIGN
SIGN
SIGN
SIGN
SIGN

800
805
USH 63
810

OGREN RD

STRESS RD

PAVEMENT MARKING
STOP LINE EPOXY 18-INCH

STOP
R1-1
30"X30"
178

PAVEMENT MARKING EPOXY
4-INCH, 3-FOOT PAINT, 9-FOOT GAP

OLD 24

SPEED LIMIT 45
180
W3-5
36"X36"

STOP
R1-1
30"X30"
182

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-SAWYER-MAINLINE.DWG
PLOT DATE : 2/5/2015 4:09 PM
PLOT BY : JORGENSON, MARY B
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

N

185 SPEED LIMIT 45 R2-1 24"X30"

191 STOP R1-1 30"X30"

190 <===.GREENWOOD LANE D1-1 SEE_SIGN_PLATES

196 W11-2 30"X30" W16-7R 24"X12"

197 W11-2 30"X30"

199 W11-2 30"X30" W16-7L 24"X12"

198

MOUNTED ON CROSSWALK SIGNAL POLE

PAVEMENT MARKING STOP LINE EPOXY 18-INCH

PAVEMENT MARKING EPOXY 4-INCH YELLOW, SOLID LEFT, DASHED RIGHT

GREENWOOD LN

STA 828+44

815 820 825 USH 63

STA 821+62

STA 824+51

PAVEMENT MARKING SYMBOLS "PEDESTRIAN"

PAVEMENT MARKING WORDS "XING"

STA 826+41

PAVEMENT MARKING EPOXY 8-INCH WHITE

PAVEMENT MARKING SYMBOLS "PEDESTRIAN"

PAVEMENT MARKING WORDS "XING"

PAVEMENT MARKING CROSSWALK SPECIAL

189 W11-2 30"X30" AHEAD W16-9P 24"X8"

188

193 W11-2 30"X30" W16-7L 24"X12"

192

MOUNTED ON CROSSWALK SIGNAL POLE

195 W11-2 30"X30" W16-7R 24"X12"

194

BIKE PATH

NURSERY RD

PAVEMENT MARKING NOTES INDICATE CURRENT CONDITIONS AND ARE SUBJECT TO CHANGE AFTER SPOTTING IS COMPLETE.

202 GREENWOOD LANE.===> D1-1 SEE_SIGN_PLATES

204 W11-2 30"X30" AHEAD W16-9P 24"X8"

203

206 PASSING LANE AHEAD 1 MILE R4-51 36"X48"

208 NO PASSING ZONE W14-3 48"X36"

STA 830+04

830 835 840 USH 63

STA 830+74

PAVEMENT MARKING EPOXY 4-INCH YELLOW, SINGLE DASHED

PAVEMENT MARKING EPOXY 4-INCH YELLOW, DASHED LEFT, SOLID RIGHT

201 SPEED LIMIT 45 R2-1 24"X30"

205 NO PASSING ZONE W14-3 48"X36"

207 SPEED LIMIT 45 R2-1 24"X30"

BIKE PATH

NURSERY RD

PAVEMENT MARKING NOTES INDICATE CURRENT CONDITIONS AND ARE SUBJECT TO CHANGE AFTER SPOTTING IS COMPLETE.

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-SAWYER-MAINLINE.DWG PLOT DATE : 2/5/2015 4:09 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

PAVEMENT MARKING NOTES INDICATE CURRENT CONDITIONS AND ARE SUBJECT TO CHANGE AFTER SPOTTING IS COMPLETE.

2

845 850 855

USH 63

PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW

NURSERY RD

PAVEMENT MARKING EPOXY 8-INCH WHITE

210 SPEED LIMIT 45 R2-1 24"X30"

208 SPEED LIMIT 45 R2-1 24"X30"

209 NO ENGINE BRAKING EXCEPT IN EMERGENCY R10-64 30"X36"

211 HAYWARD POPULATION 2129 I2-3 66"X24"

REMOVE DARE

215 NO PARKING R7-1D 18"X24"

217 NO PARKING R7-1D 18"X24"

220 NO PARKING R7-1D 18"X24"

223 SPEED LIMIT 45 R2-1 24"X30"

PC: 867+30.03

PT: 871+00.51

PAVEMENT MARKING EPOXY 8-INCH WHITE

VERMONT AVE

PAVEMENT MARKING STOP LINE EPOXY 18-INCH

231 14'-10" W12-2 36"X36"

7.5 MILES AHEAD W57-52 36"X24"

232

860 865 870

USH 63

PAVEMENT MARKING STOP LINE EPOXY 18-INCH

NURSERY RD

213 STOP R1-1 30"X30"

214 SPEED LIMIT 25 W3-5 36"X36"

216 NO PARKING R7-1D 18"X24"

TOURIST INFORMATION 1/2 MILE D7-57 54"X36"

218 NO PARKING R7-1D 18"X24"

221 SPEED LIMIT 25 R2-1 24"X30"

STA 858+81

STA 857+93

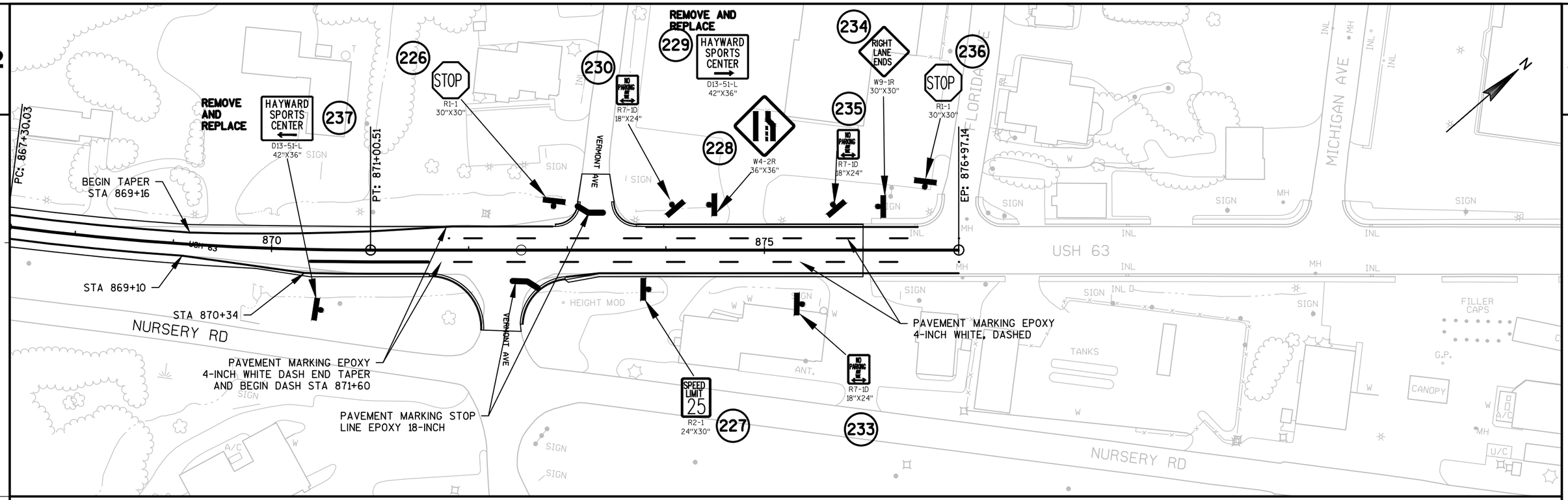
219 NO PARKING R7-1D 18"X24"

224 STOP R1-1 30"X30"

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET 40	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-SAWYER-MAINLINE.DWG PLOT DATE : 2/5/2015 4:10 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PAVEMENT MARKING NOTES INDICATE
CURRENT CONDITIONS AND ARE SUBJECT TO
CHANGE AFTER SPOTTING IS COMPLETE.

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PS\PS-PM-SAWYER-MAINLINE.DWG PLOT DATE : 2/5/2015 4:58 PM PLOT BY : JORGENSON, MARY B PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

SIGN	SIGN CODE	SIGN SIZE	NO. REQ'D	SIGN	SIGN CODE	SIGN SIZE	NO. REQ'D	SIGN	SIGN CODE	SIGN SIZE	NO. REQ'D	SIGN	SIGN CODE	SIGN SIZE	NO. REQ'D	SIGN	SIGN CODE	SIGN SIZE	NO. REQ'D
STOP	R1-1	30"x30"	31	50 M.P.H.	W013-1	36"x36"	1	NO PARKING ANY TIME	R7-1-D	18"x24"	17		W4-2R	36"x36"	7	JCT COUNTY M	J1-1	24"x39"	2
SPEED LIMIT 55	R2-1	24"x30"	1	ADOPT A HIGHWAY SPONSOR BEES WAX ON A STICK	I55-56	30"x36"	1		W5-52L	12"x36"	4	RIGHT LANE ENDS	W9-1R	30"x30"	7	SOUTH 63	J4-1	24"x36"	5
SPEED LIMIT 45	R2-1	24"x30"	10	ADOPT A HIGHWAY SPONSOR HAYWARD ARMY NATIONAL GUARD POST 724	I55-56	30"x36"	1		W5-52R	12"x36"	4	WAYSIDE	D5-62-R	48"x24"	1	COUNTY M	J12-1	24"x45"	1
COUNTY M	J12-1	24"x45"	2	ADOPT A HIGHWAY SPONSOR LOUISIANA PACIFIC CORPORATION	I55-56	30"x36"	2		W1-2R	30"x30"	7	WAYSIDE	D5-62-L	48"x24"	1	63	M1-4	24"x24"	1
NORTH 63	J4-1	24"x36"	5	ADOPT A HIGHWAY SPONSOR BEEHIVE BOTANICALS	I55-56	30"x36"	1		S3-1	30"x30"	6	ONCOMING TRAFFIC USES CENTER LANE	R3-72	30"x36"	3		W1-7	48"x24"	1
	W10-3	36"x36"	6	ADOPT A HIGHWAY SPONSOR HAYWARD ARMY GUARD	I55-56	30"x36"	1	SPEED LIMIT 25	W3-5	36"x36"	1	SLOWER TRAFFIC KEEP RIGHT	R4-3	24"x30"	4	14'-10" AHEAD	W12-2 W16-9P	36"x36" 24"x8"	4 3
	W10-3	36"x36"	6	SPEED LIMIT 25	R2-1	24"x30"	2	NO PASSING ZONE	W14-3	48"x36"	16	JCT COUNTY F	J1-1	24"x39"	2		W1-4R	30"x30"	2
	W1-2L	30"x30"	8	SPEED LIMIT 45	W3-5	36"x36"	2	WAYSIDE 1/2 MILE	D5-61	48"x36"	2		W2-2	30"x30"	1	JCT COUNTY E	J1-1	24"x39"	1

PROJECT NO: 1560-30-00	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGN SCHEDULE	SHEET 42 E

SIGN	SIGN CODE	SIGN SIZE	NO. REQ'D	SIGN	SIGN CODE	SIGN SIZE	NO. REQ'D	SIGN	SIGN CODE	SIGN SIZE	NO. REQ'D	SIGN	SIGN CODE	SIGN SIZE	NO. REQ'D
PLANT ENTRANCE	W54-56	30"x30"	2	NO ENGINE BRAKING EXCEPT IN EMERGENCY	R10-64	30"x36"	1	Stanberry Rd ⇨	D1-1	90"x15"	1	Larson Rd ⇨	D1-1	72"x15"	1
TRUCK ENTRANCE	W54-57	30"x30"	1	7.5 MILES AHEAD	W57-52	36"x24"	1	⇦ Stanberry Rd	D1-1	90"x15"	1	⇦ Larson Rd	D1-1	72"x15"	1
BEGIN RIGHT TURN LANE ⇩	R3-20-R	24"x36"	1	CANOE LANDING 1/2 MILE	D7-54	48"x36"	5	⇦ Stanberry	D1-1	72"x15"	1	⇦ Hamilton Rd	D1-1	84"x15"	1
PASSING LANE AHEAD 1/2 MILE	R4-51	36"x48"	1	CANOE LANDING ⇦ D7-91-L 60" X 30"	D7-56L	48"x36"	3	Stanberry ⇨	D1-1	72"x15"	1	Hamilton Rd ⇨	D1-1	84"x15"	1
	W11-2	30"x30"	6	CANOE LANDING ⇨ D7-91-L 60" X 30"	D7-56R	48"x36"	2	Hayward Rd ⇨	D1-1	84"x15"	1	Spooner 25	D2-1	72"x15"	1
	W12-1R	24"x24"	2	⇦ River Rd	D1-1	66"x15"	1	⇦ Hayward Rd	D1-1	84"x15"	1	SAWYER COUNTY	I2-2	60"x15"	1
	W12-1L	24"x24"	2	River Rd ⇨	D1-1	66"x15"	1	⇦ River Rd Alley	D1-1	96"x15"	1	WASHBURN COUNTY	I2-2	72"x15"	1
PASSING LANE AHEAD 1 MILE	R4-51	36"x48"	1	HAYWARD POPULATION 2318 I2-3	I2-3	60"x24"	1	River Rd Alley ⇨	D1-1	96"x15"	1	SPRINGBROOK UNINCORPORATED	I2-3-U	78"x24"	1

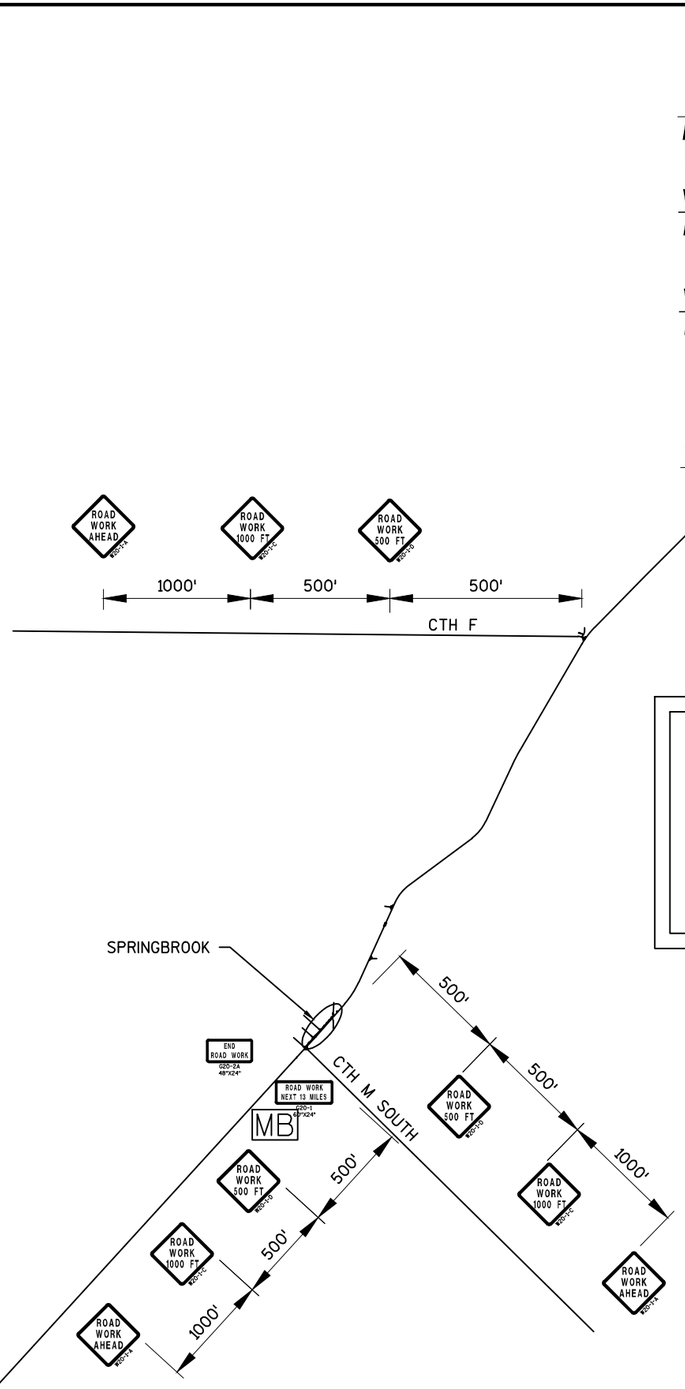
PROJECT NO: 1560-30-00	HWY: USH 63	COUNTY: WASHBURN - SAWYER	PERMANENT SIGN SCHEDULE	SHEET 43

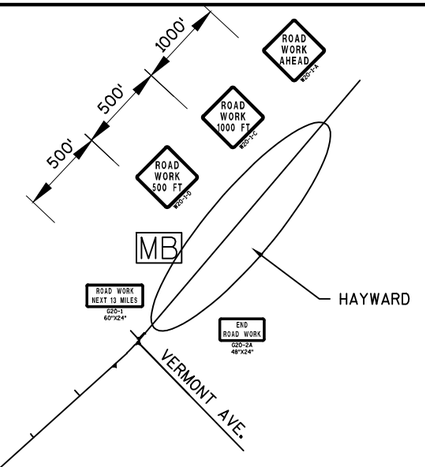
SIGN	SIGN CODE	SIGN SIZE	NO. REQ'D								
⇦ Brickman Lake Rd	D1-1	114"x15"	1								
Brickman Lake Rd ⇨	D1-1	114"x15"	1								
⇦ Tranus Lake Rd	D1-1	102"x15"	1								
Tranus Lake Rd ⇨	D1-1	102"x15"	1								
⇦Stinnett Landing Rd	D1-1	120"x15"	1								
Stinnett Landing Rd⇨	D1-1	120"x15"	1								
⇦ Greenwood La	D1-1	90"x15"	1								
Greenwood La ⇨	D1-1	90"x15"	1								

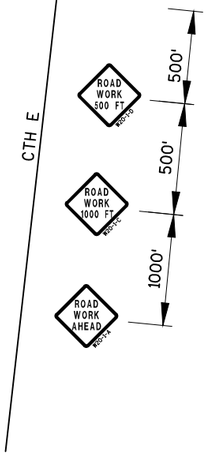
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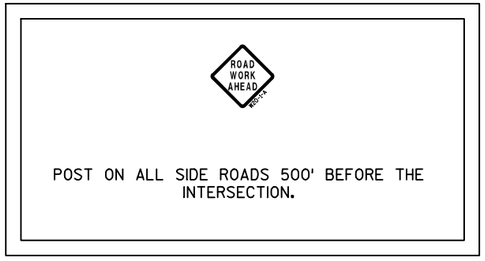
5

2









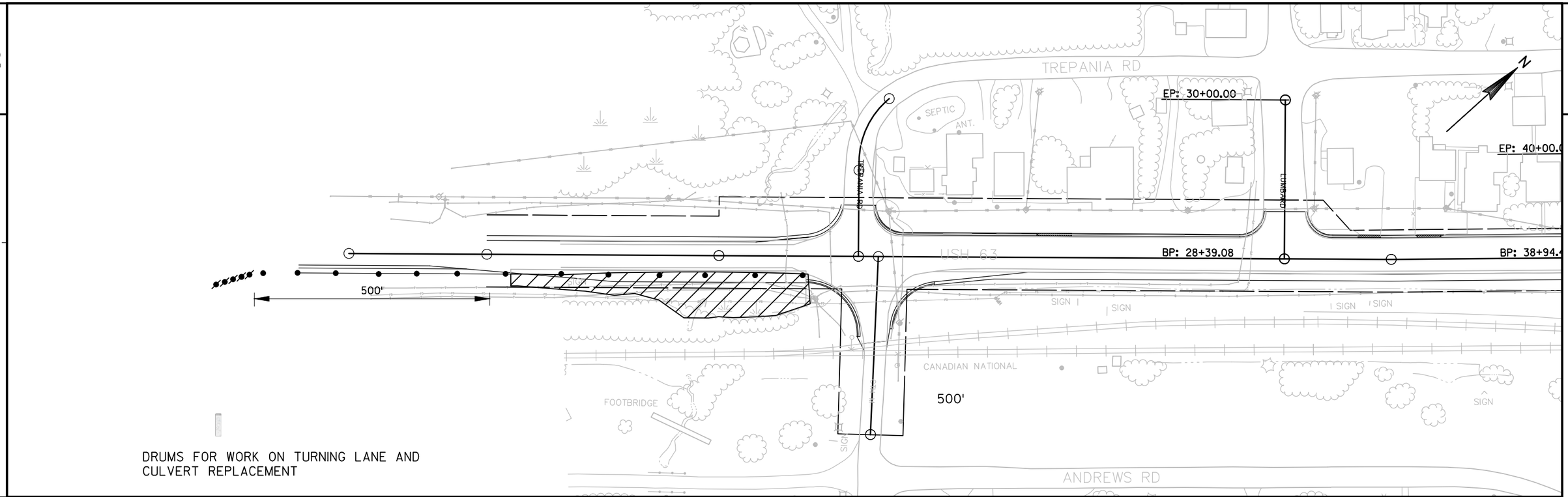
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

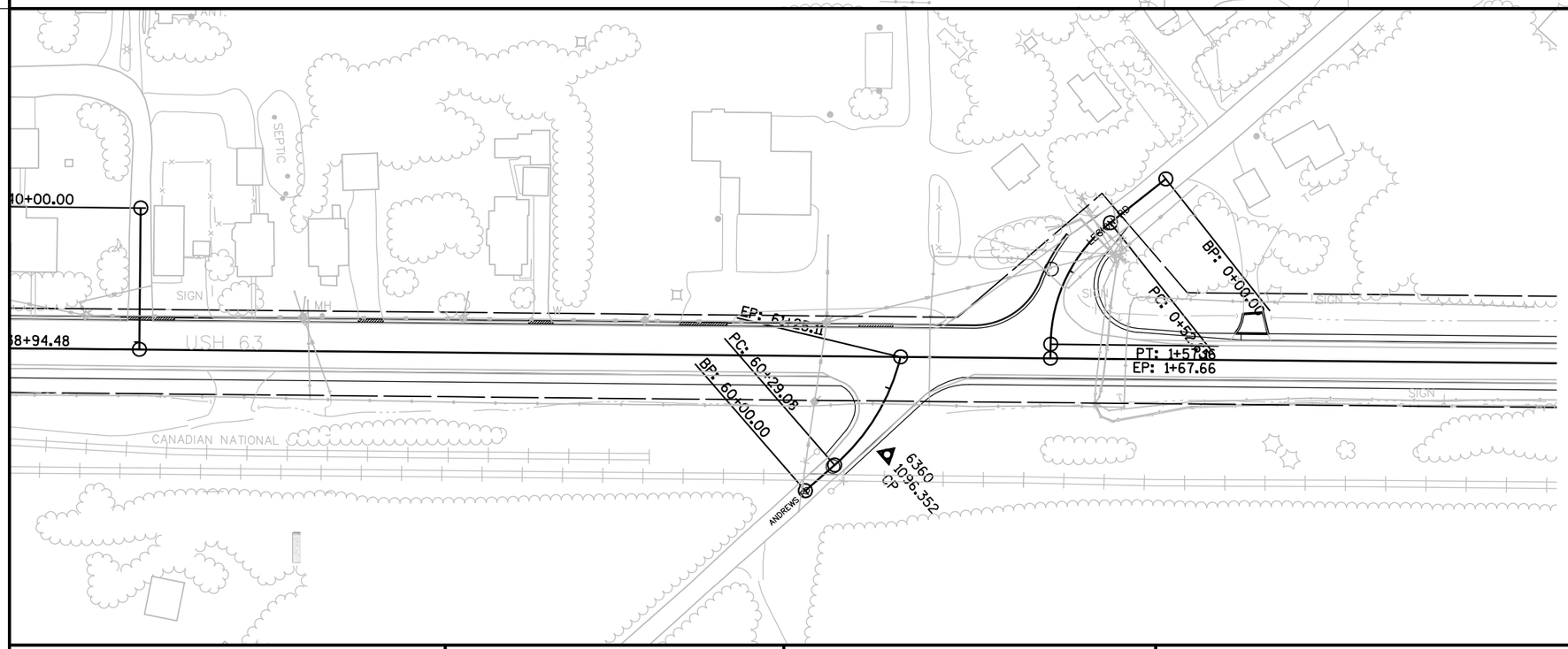
PROJECT NO:1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	TRAFFIC CONTROL OVERVIEW	SHEET 45	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\TRAFFIC CONTROL\TC-0-ALL.DWG
LAYOUT NAME - ****
PLOT DATE : 10/27/2014 8:06 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME :
PLOT SCALE : 1 IN:500 FT

2



DRUMS FOR WORK ON TURNING LANE AND CULVERT REPLACEMENT

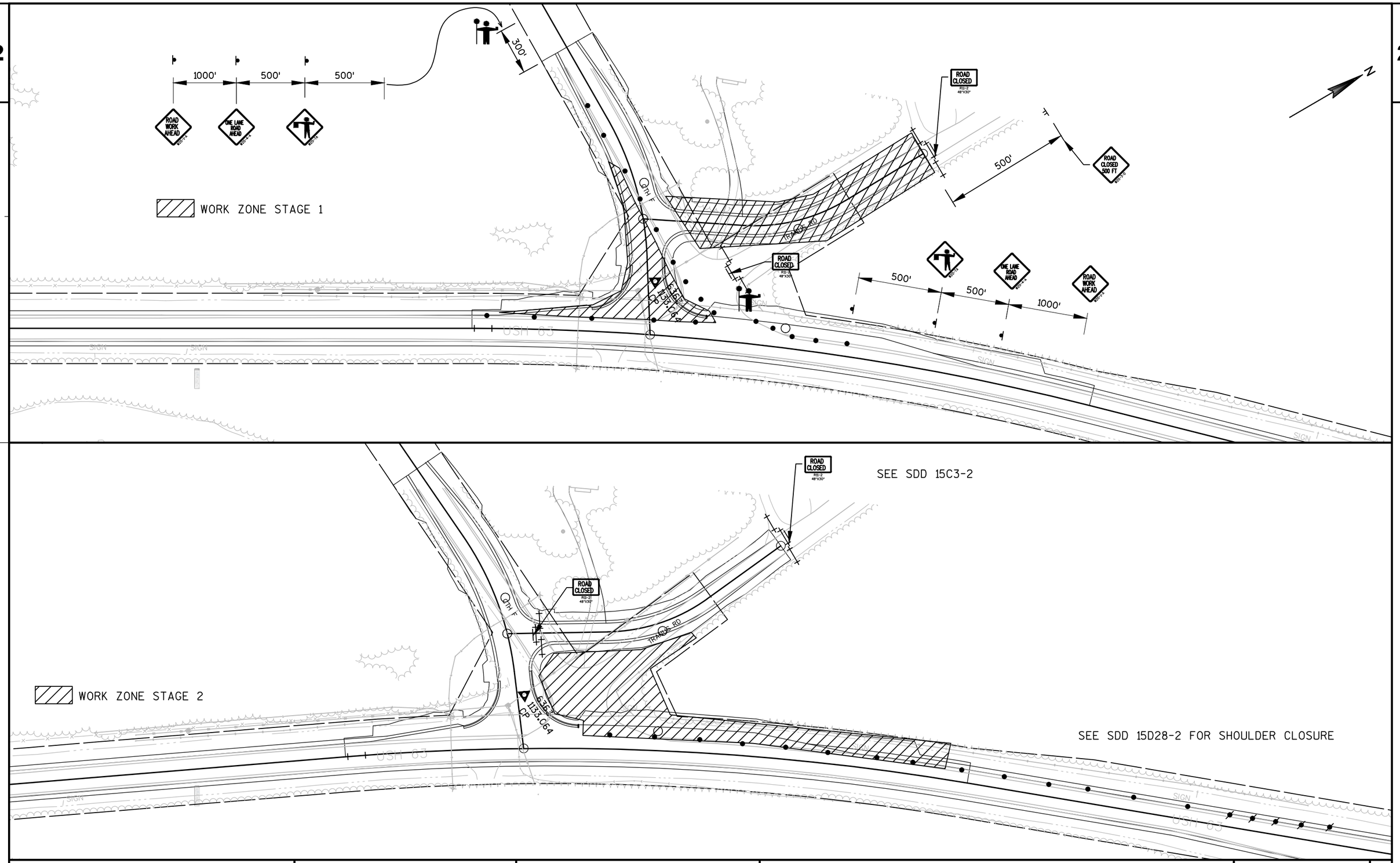


LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

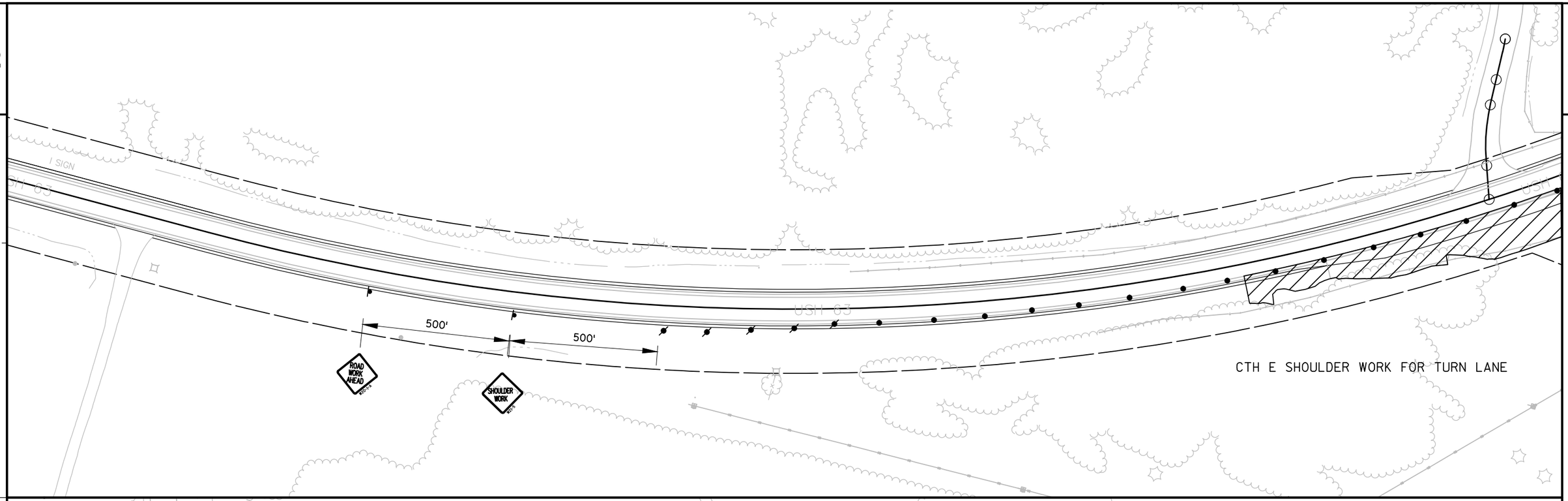
PROJECT NO:1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	TRAFFIC CONTROL:	SHEET 46	E

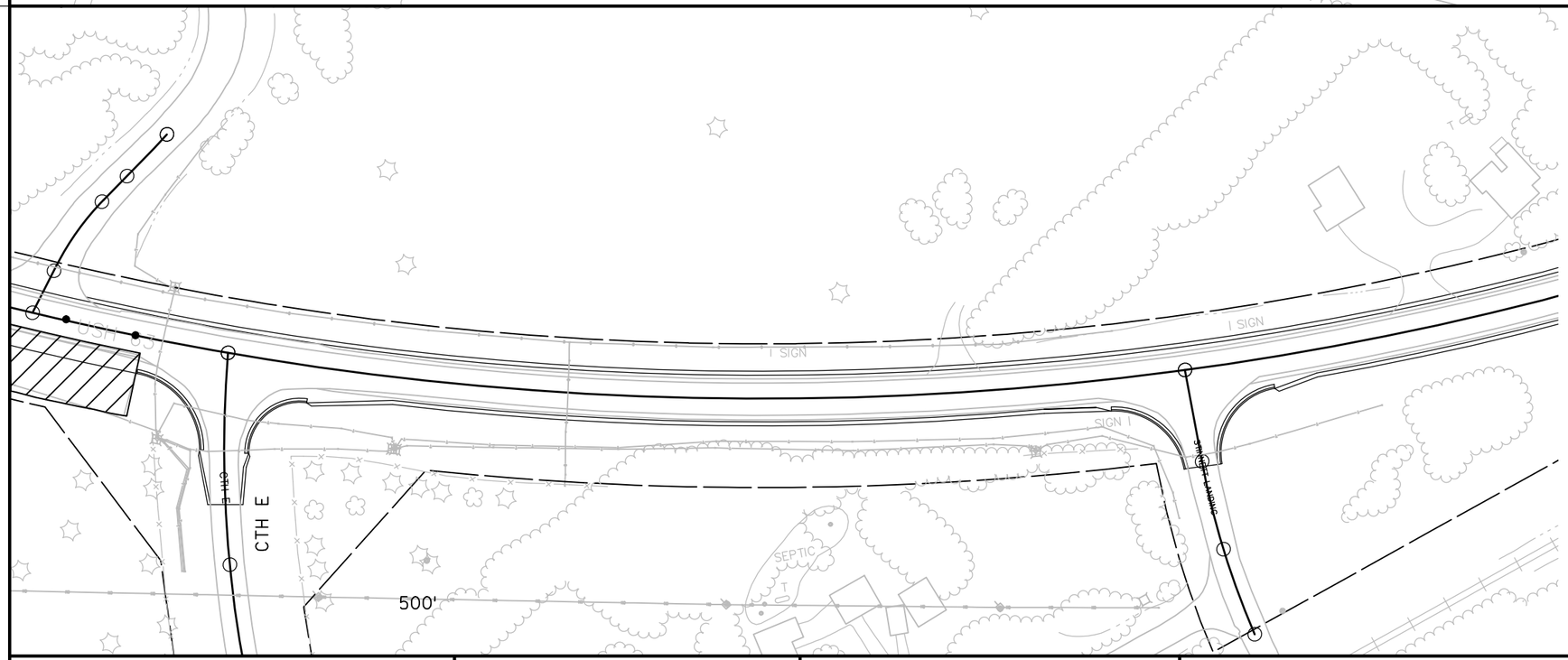
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PROJECT NO:1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	TRAFFIC CONTROL:	SHEET 47	E

2



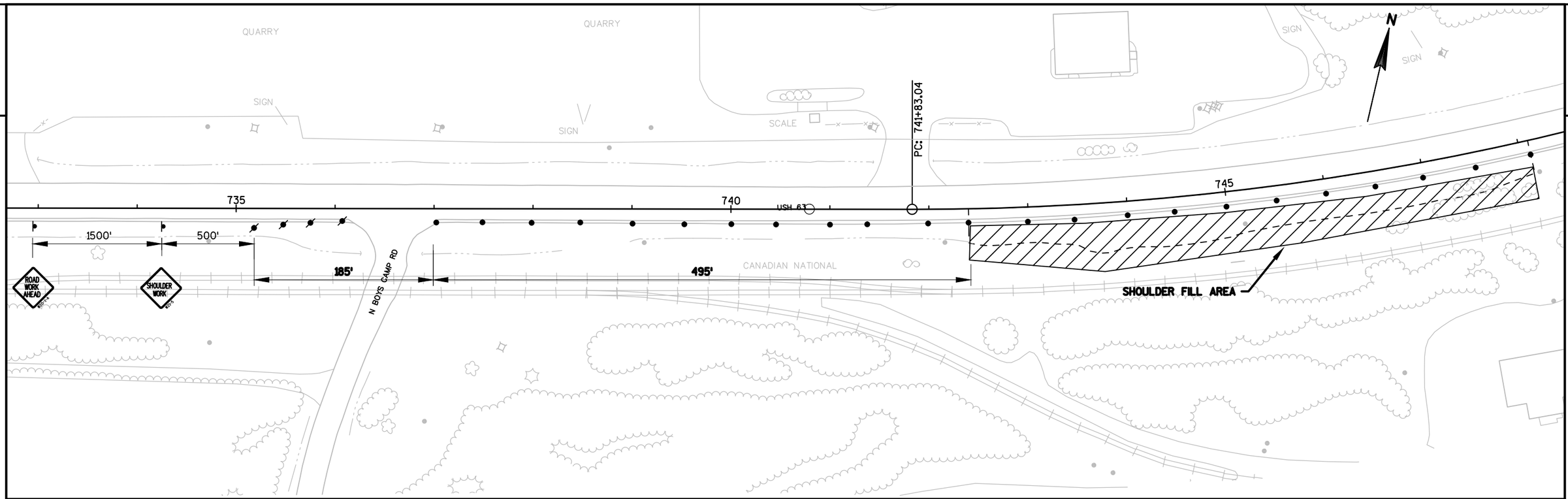


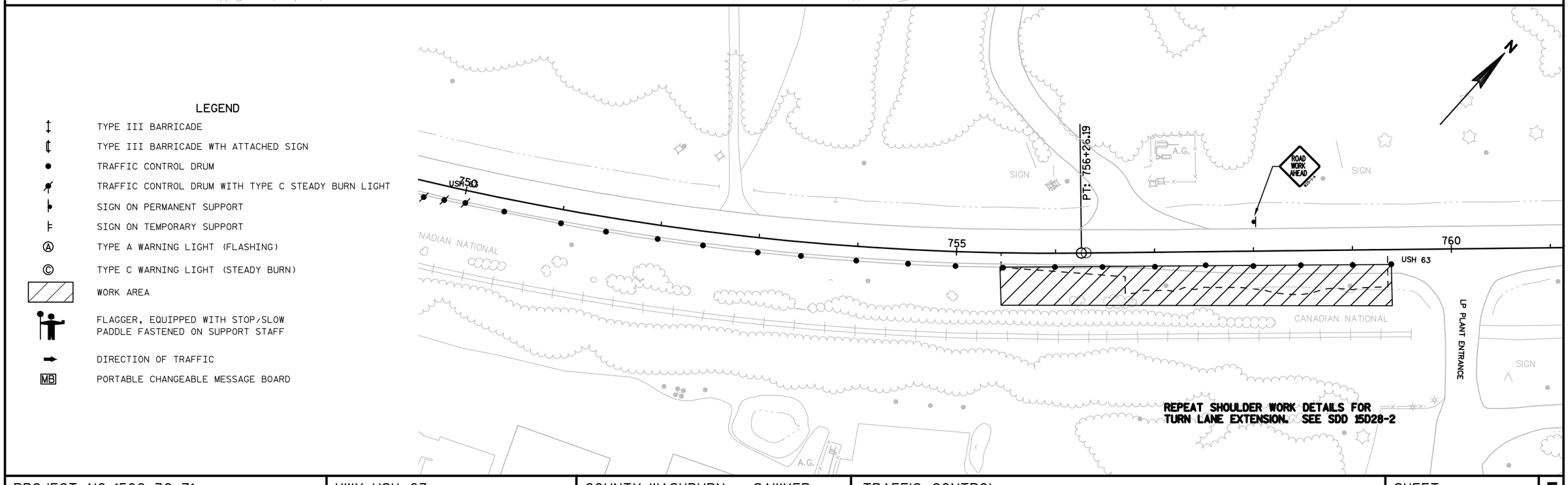
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	TRAFFIC CONTROL:	SHEET 48	E

2





PROJECT NO:1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	TRAFFIC CONTROL	SHEET 49	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\TRAFFIC CONTROL\TC 100 SAWYER.DWG
LAYOUT NAME - ****
PLOT DATE : 4/7/2015 10:23 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

2

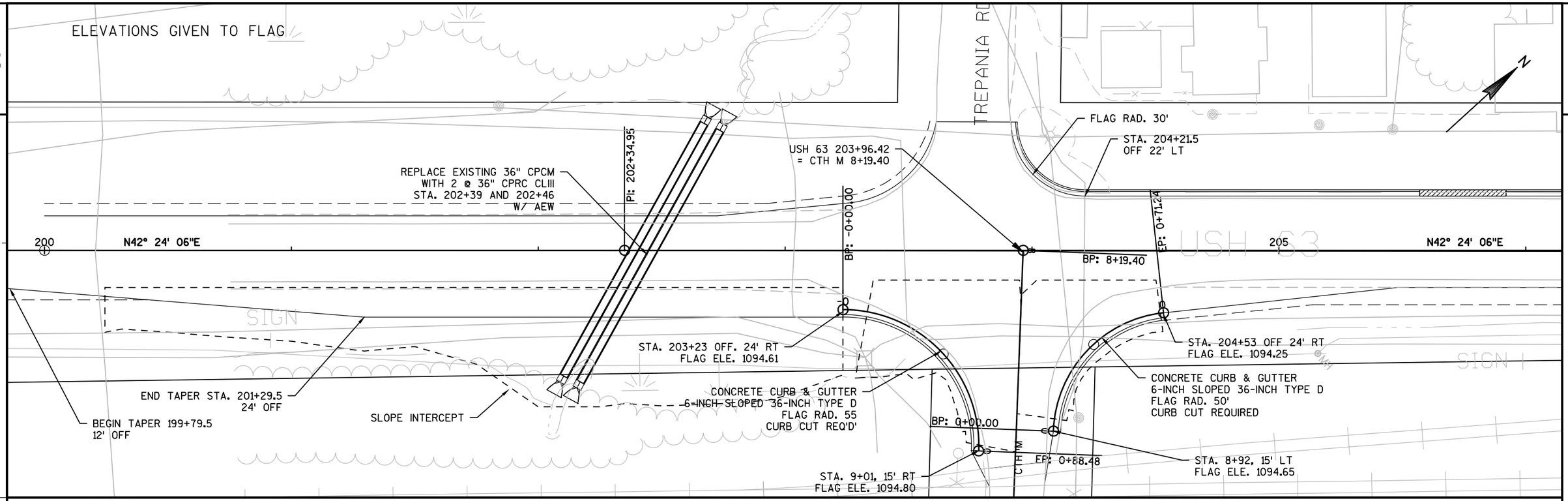
SEPTIC
SEPTIC
ANT.
SIGN
W
850
USH 63
855
860
USH 63
1500'
500'
BIKE PATH
ROAD WORK AHEAD
SHOULDER WORK
NURSERY RD
NURSERY RD
TRAFFIC CONTROL DURING TURN LANE CONSTRUCTION. REFER TO SDD 15D28-2
NURSERY RD
VERMONT AVE
HEIGHT MOD
PC: 867+30.03
PT: 871+00.51
865
870
USH 63
400'
200'
NURSERY RD
VERMONT AVE

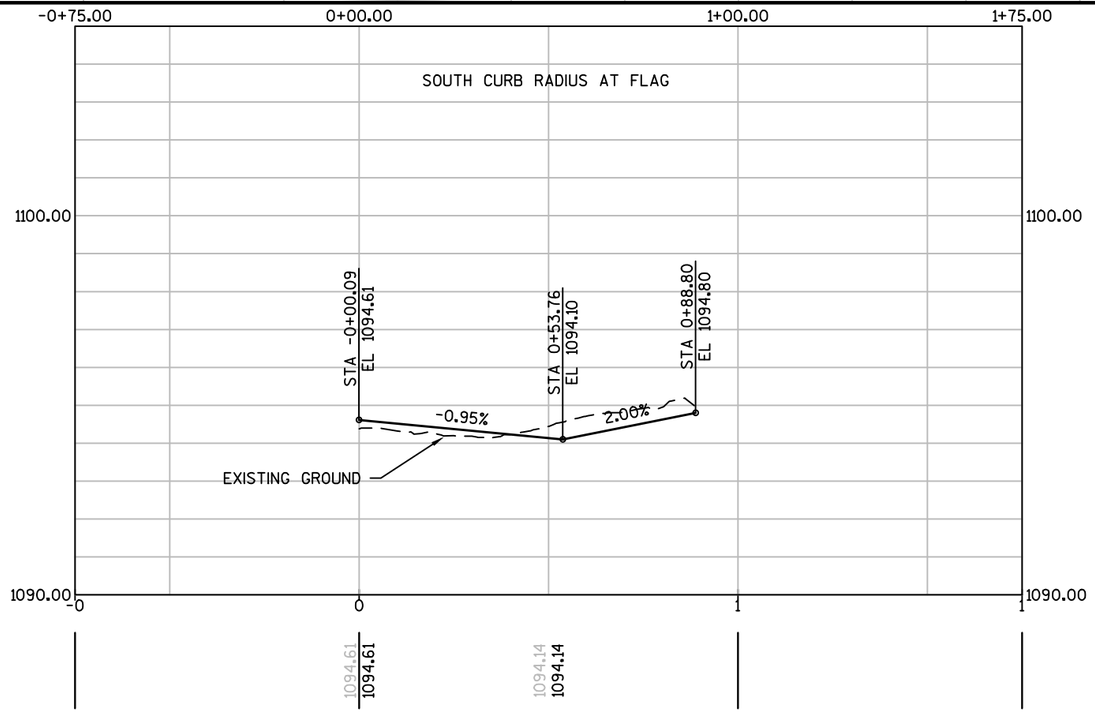
LEGEND

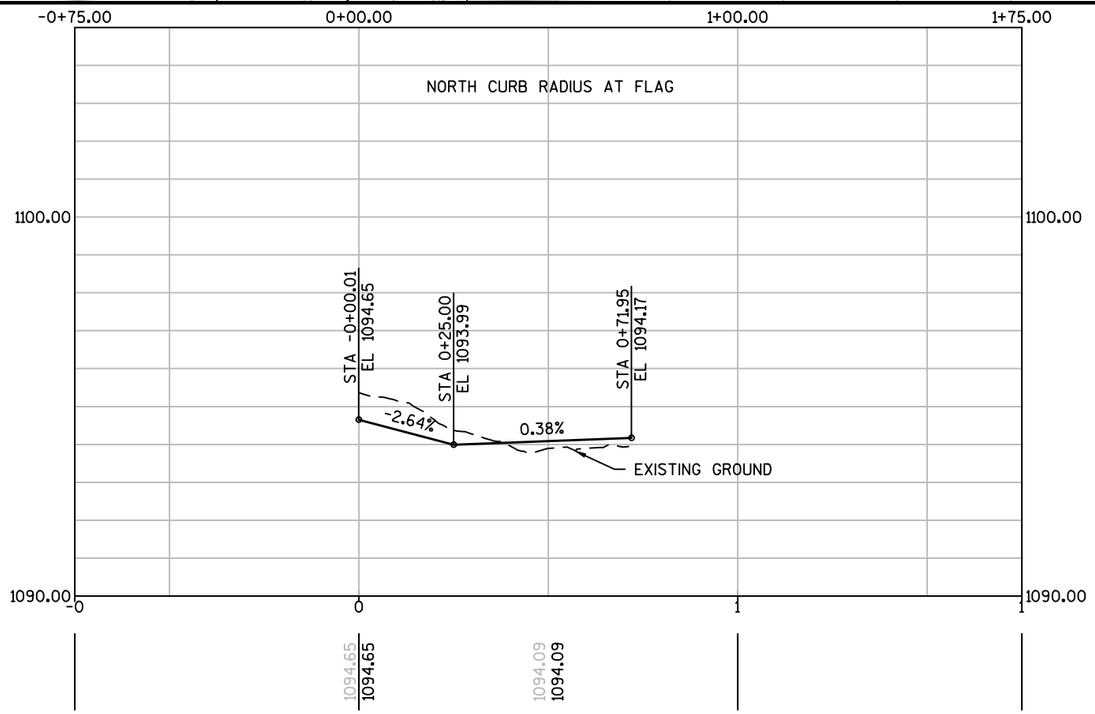
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- (A) TYPE A WARNING LIGHT (FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO:1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	TRAFFIC CONTROL	SHEET 50	E

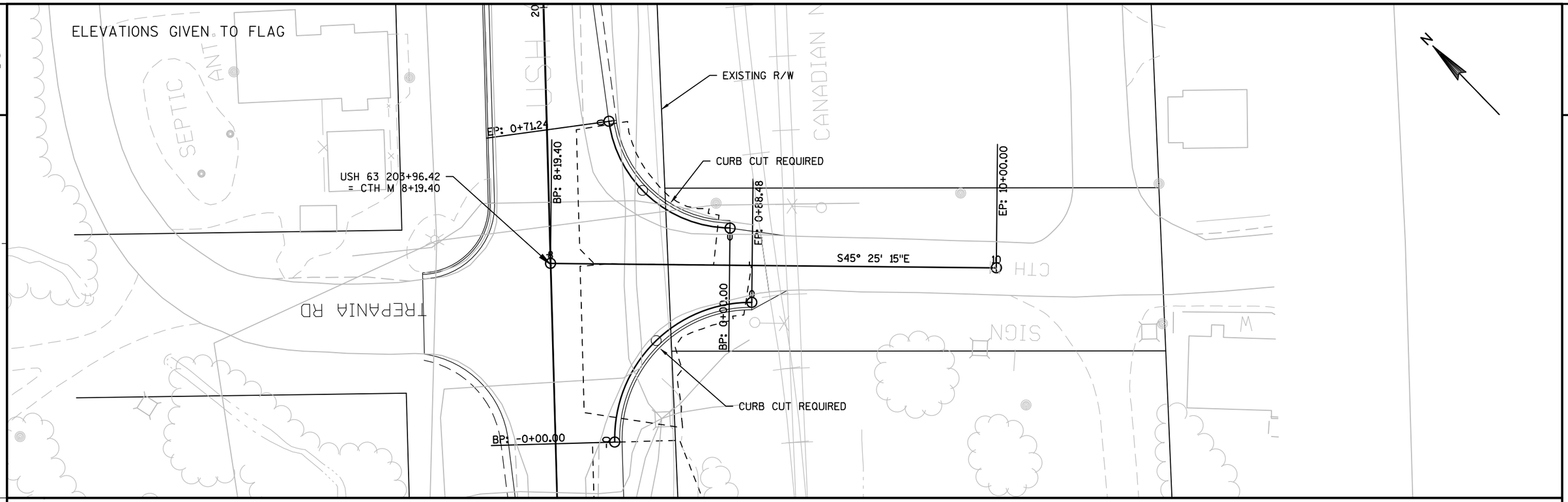
ELEVATIONS GIVEN TO FLAG

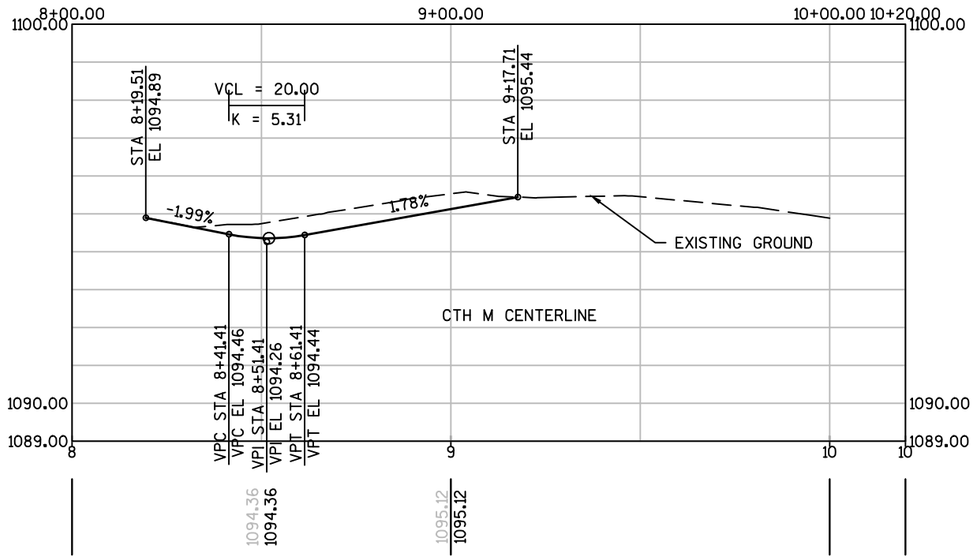






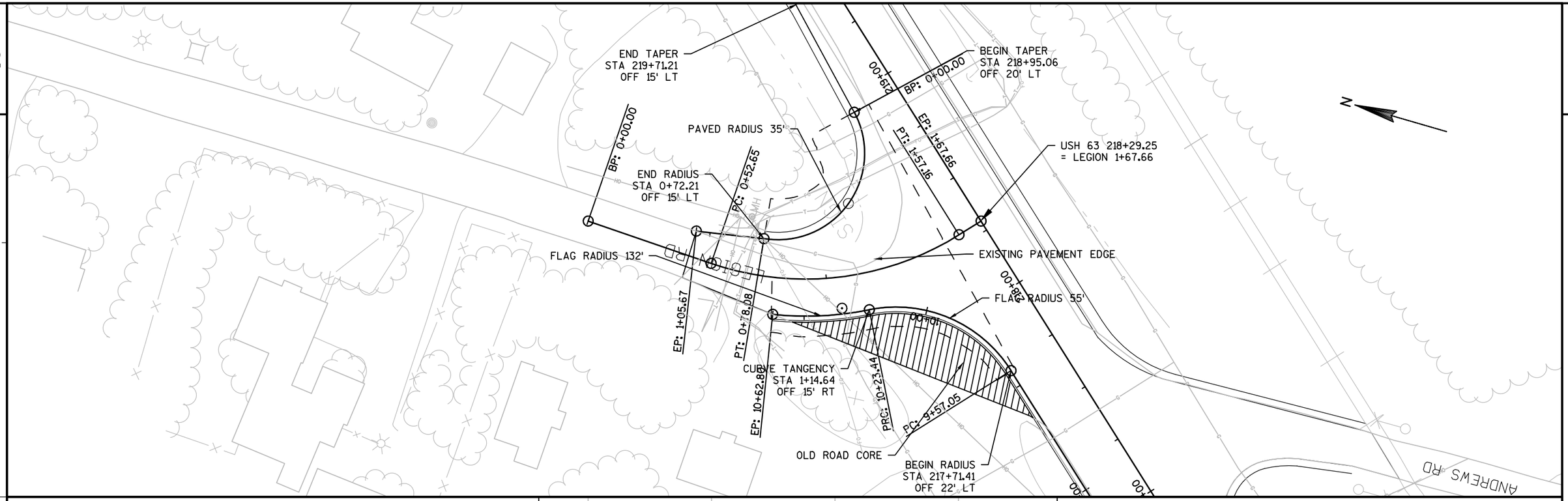
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN	INTERSECTION DETAILS: CTH M SOUTH	SHEET 51	E

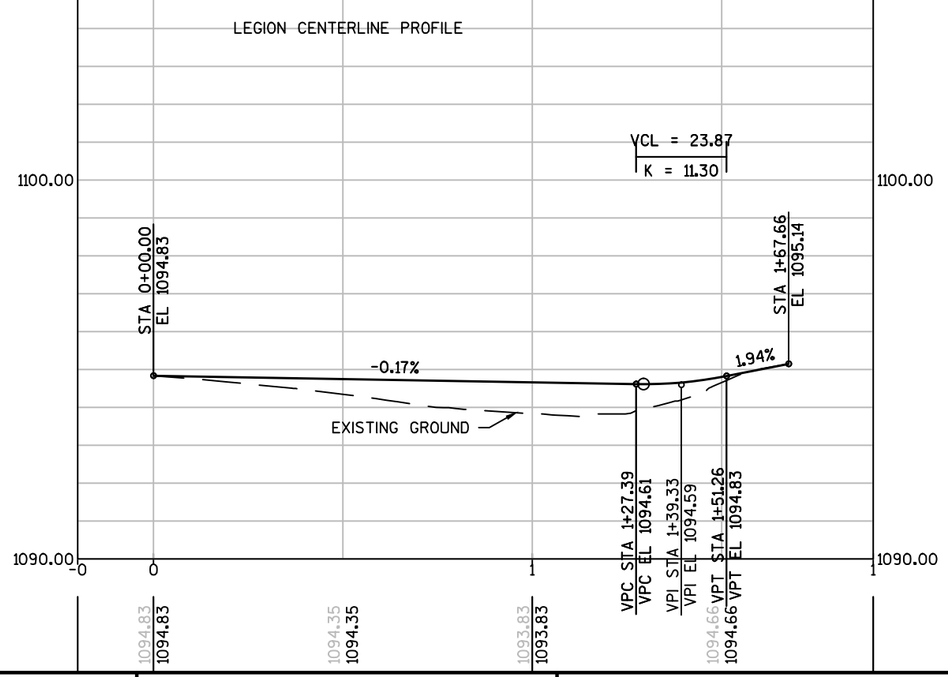




PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN	INTERSECTION DETAILS: CTH M SOUTH	SHEET 52	E

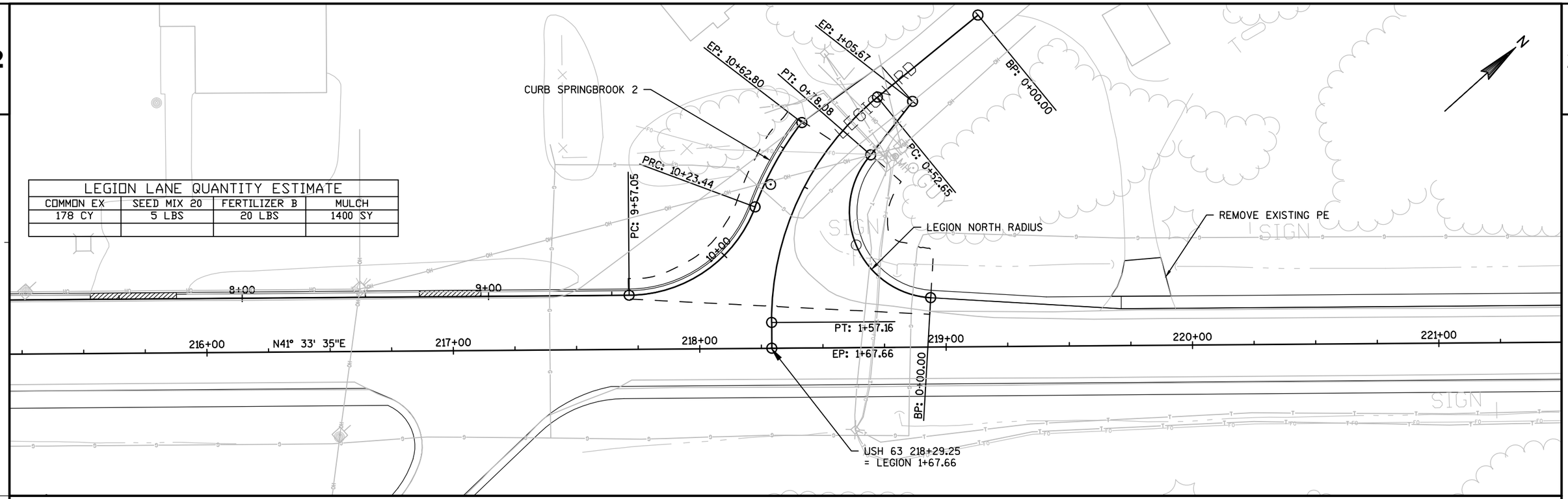
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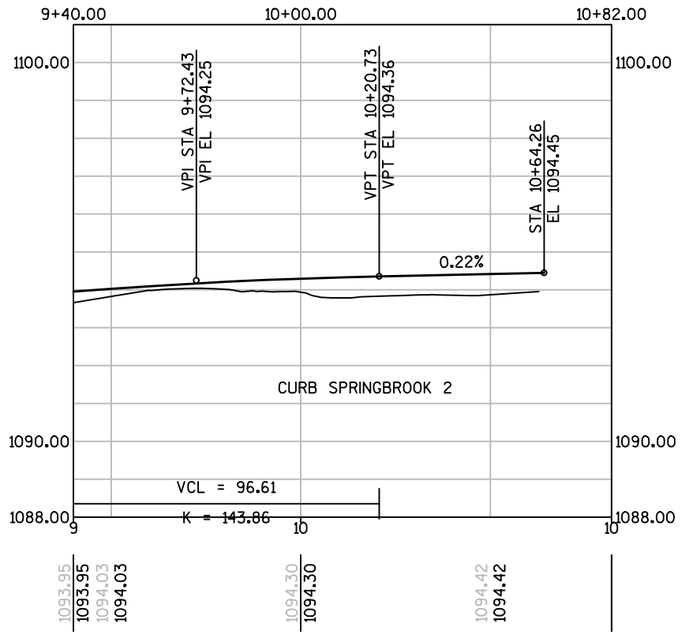


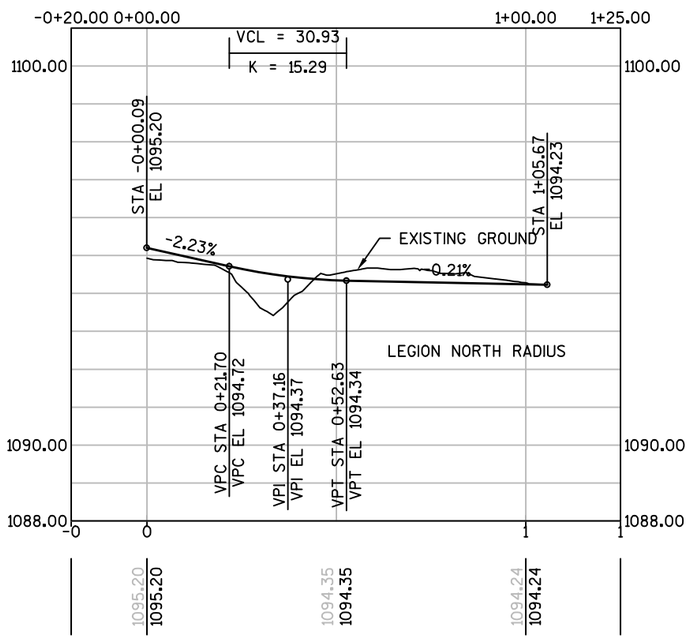


PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	INTERSECTION DETAILS: LEGION LANE CENTERLINE	SHEET 53	E

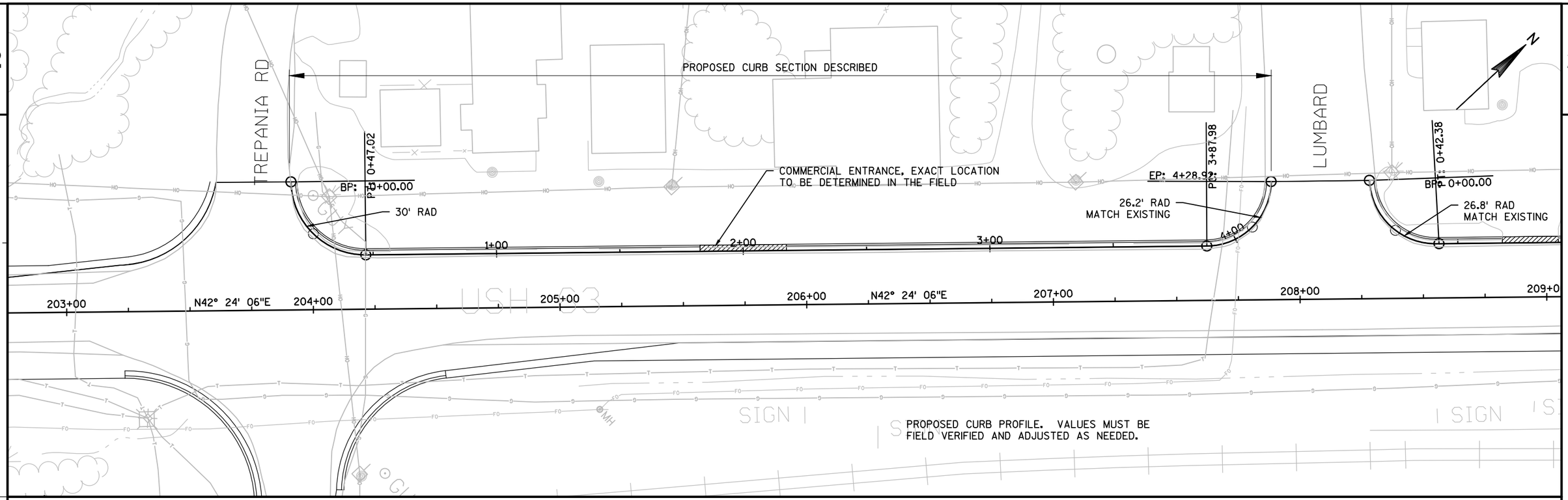
LEGION LANE QUANTITY ESTIMATE			
COMMON EX	SEED MIX 20	FERTILIZER B	MULCH
178 CY	5 LBS	20 LBS	1400 SY

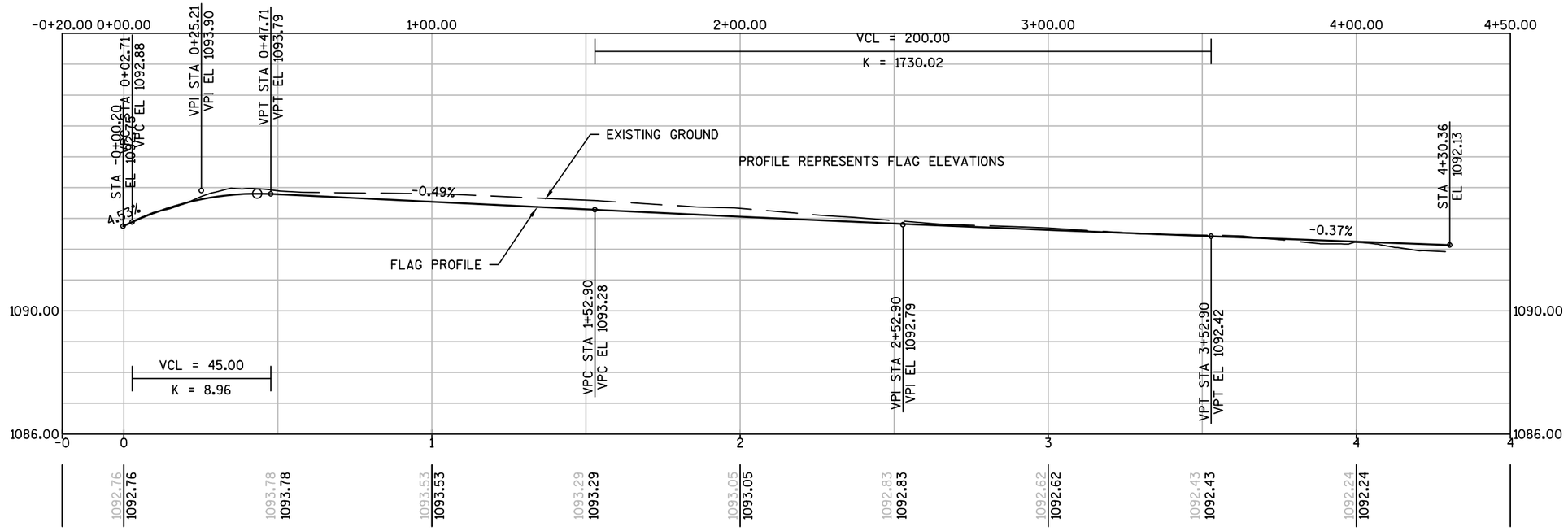






PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	LEGION LANE CURB ALIGNMENTS	SHEET 54	E





PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	SPRINGBROOK CURB1 PP	SHEET 55	E

2

PROPOSED CURB SECTION DESCRIBED

0+42.38

BP = 0+00.00

26.8' RAD
MATCH EXISTING

1+01.38

EP = 209+15.85

209+00 1+00 2+00 3+00 4+00 5+00 6+00

209+00 210+00 N41° 33' 35"E 211+00 212+00 213+00 214+00

SIGN SIGN SIGN MH GUY USH 63

PROPOSED CURB PROFILE. VALUES MUST BE FIELD VERIFIED AND ADJUSTED AS NEEDED.

CANADIAN NATIONAL

-0+20.00 0+00.00 1+00.00 2+00.00 3+00.00 4+00.00 5+00.00

STA -0+00.00
EL 1091.98

VCL = 200.00
K = 89.18

PROFILE REPRESENTS FLAG ELEVATIONS

-0.95%

EXISTING GROUND

FLAG PROFILE

1090.00

1083.00

VPC STA 3+15.31
VPC EL 1088.97

VPI STA 4+15.31
VPI EL 1088.01

VPT STA 5+15.31
VPT EL 1089.30

-0 0 1 2 3 4 5

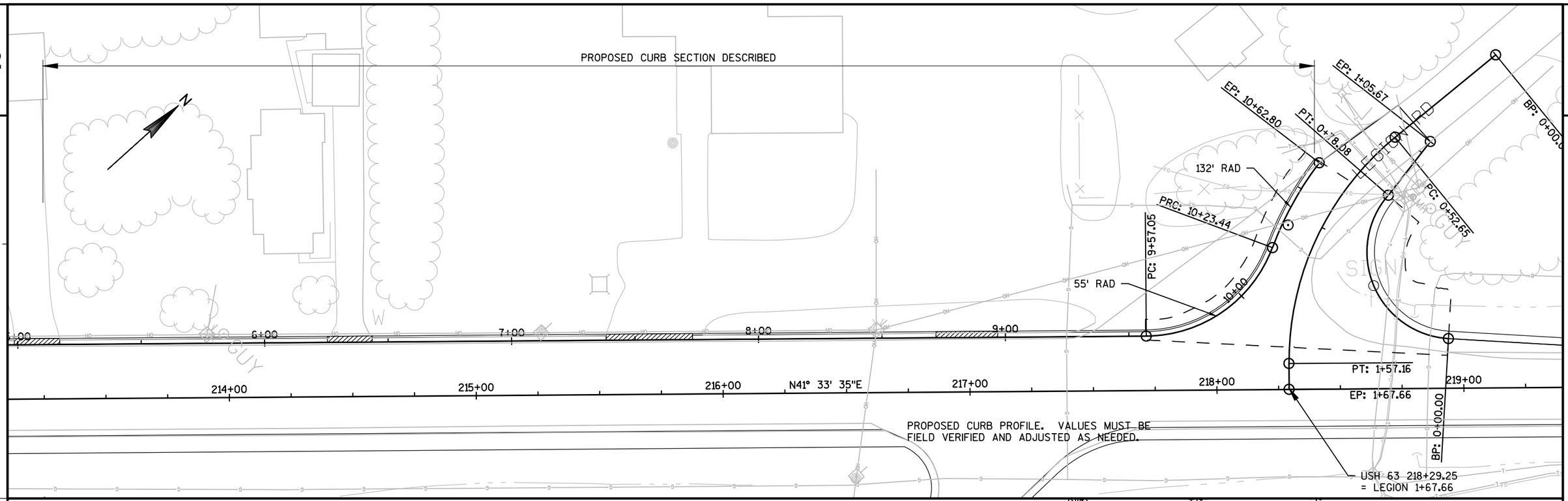
1091.98 1091.98 | 1091.50 1091.50 | 1091.02 1091.02 | 1090.54 1090.54 | 1090.07 1090.07 | 1089.59 1089.59 | 1089.11 1089.11 | 1088.70 1088.70 | 1088.56 1088.56 | 1088.70 1088.70 | 1089.12 1089.12 | 1089.75 1089.75

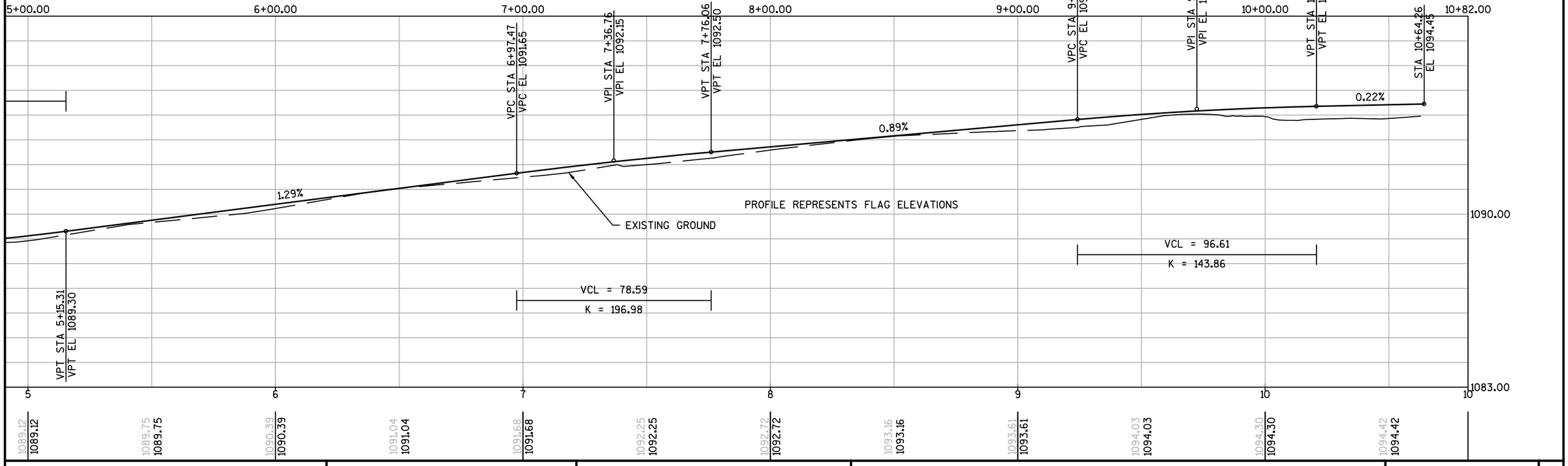
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	SPRINGBROOK CURB2 PP	SHEET 56	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\INT DETAIL-CURBS\LEGION LANE.DWG
LAYOUT NAME - ****

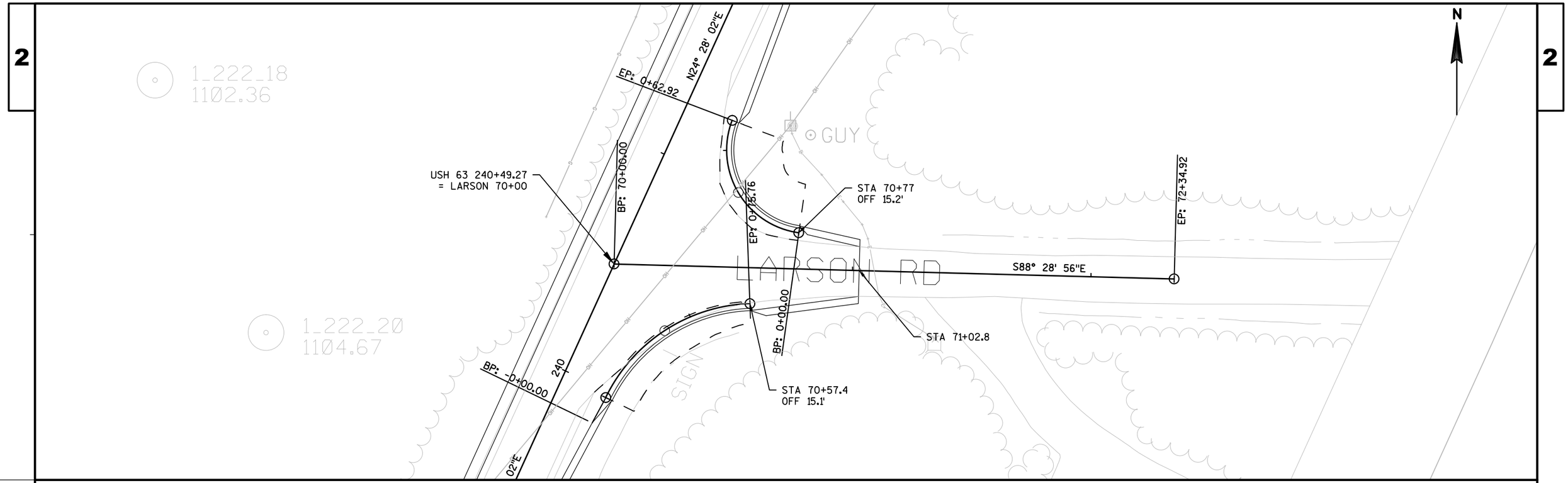
PLOT DATE : 2/2/2015 11:35 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:40 FT

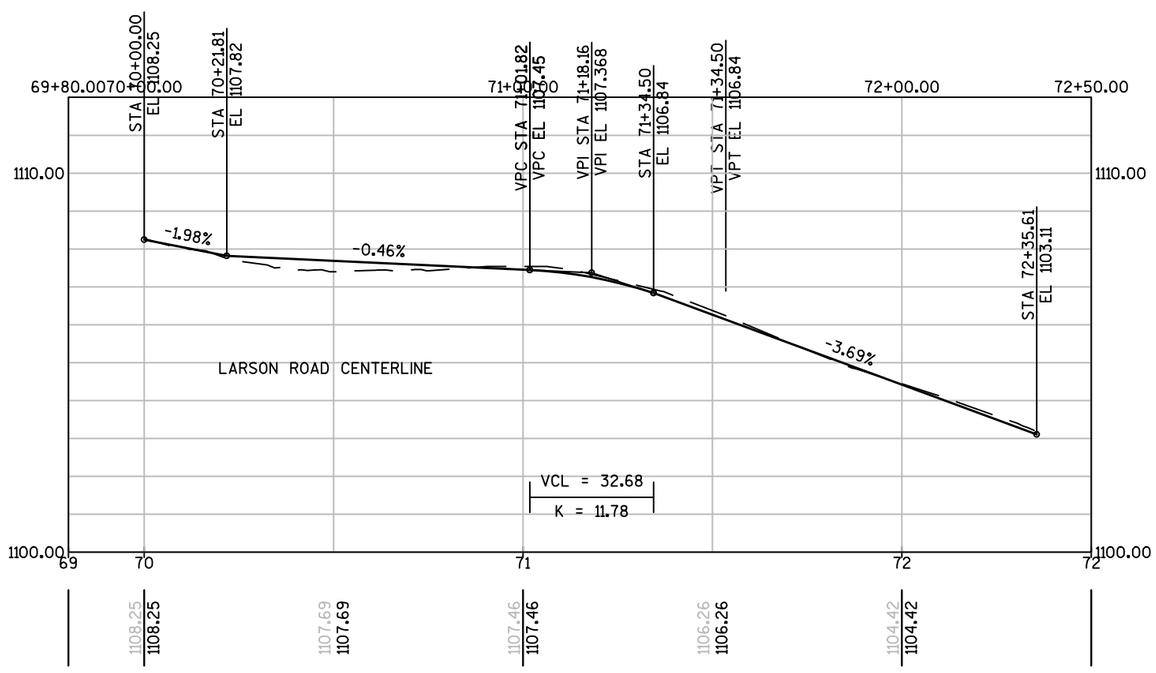
PROPOSED CURB SECTION DESCRIBED



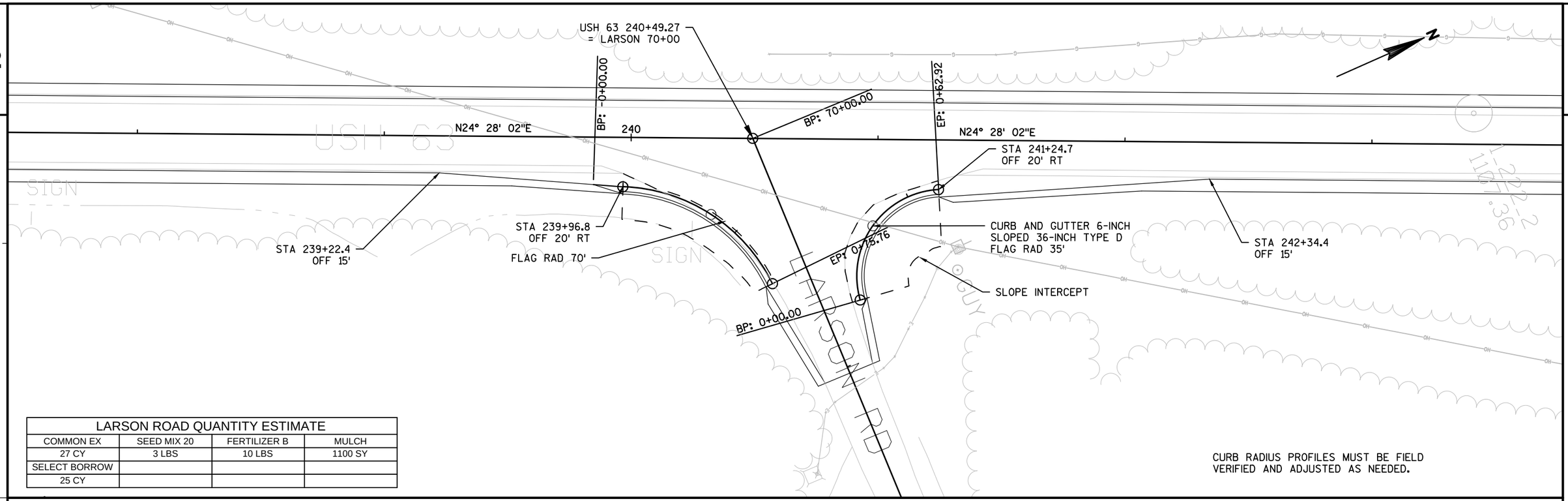


PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	SPRINGBROOK CURB2 - SOUTH LEGION CURB SECTION	SHEET 57	E





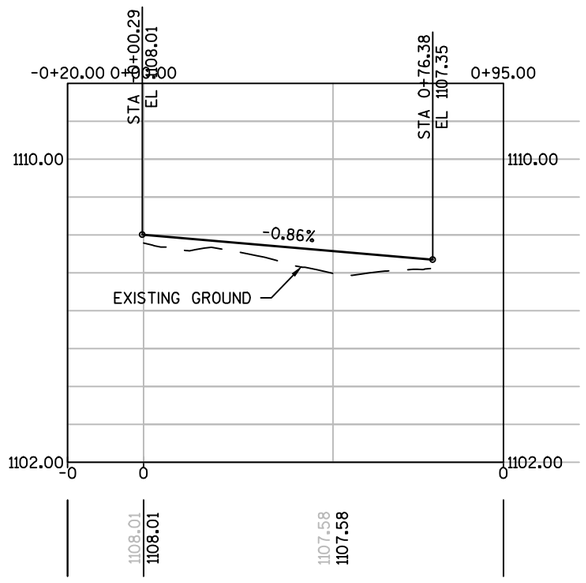
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	LARSON ROAD DETAILS	SHEET 58	E



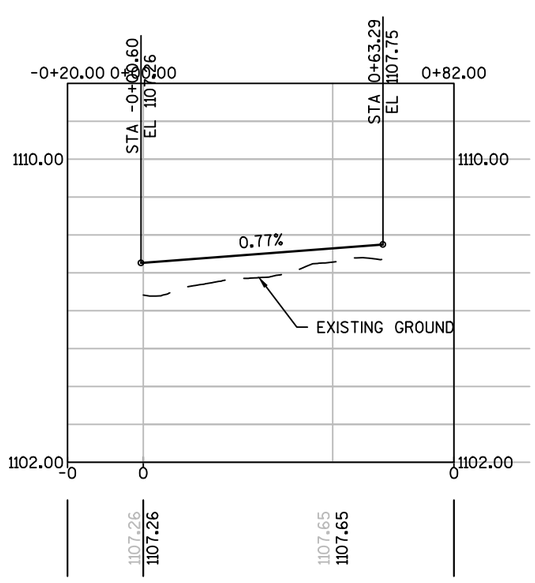
LARSON ROAD QUANTITY ESTIMATE			
COMMON EX	SEED MIX 20	FERTILIZER B	MULCH
27 CY	3 LBS	10 LBS	1100 SY
SELECT BORROW			
25 CY			

CURB RADIUS PROFILES MUST BE FIELD VERIFIED AND ADJUSTED AS NEEDED.

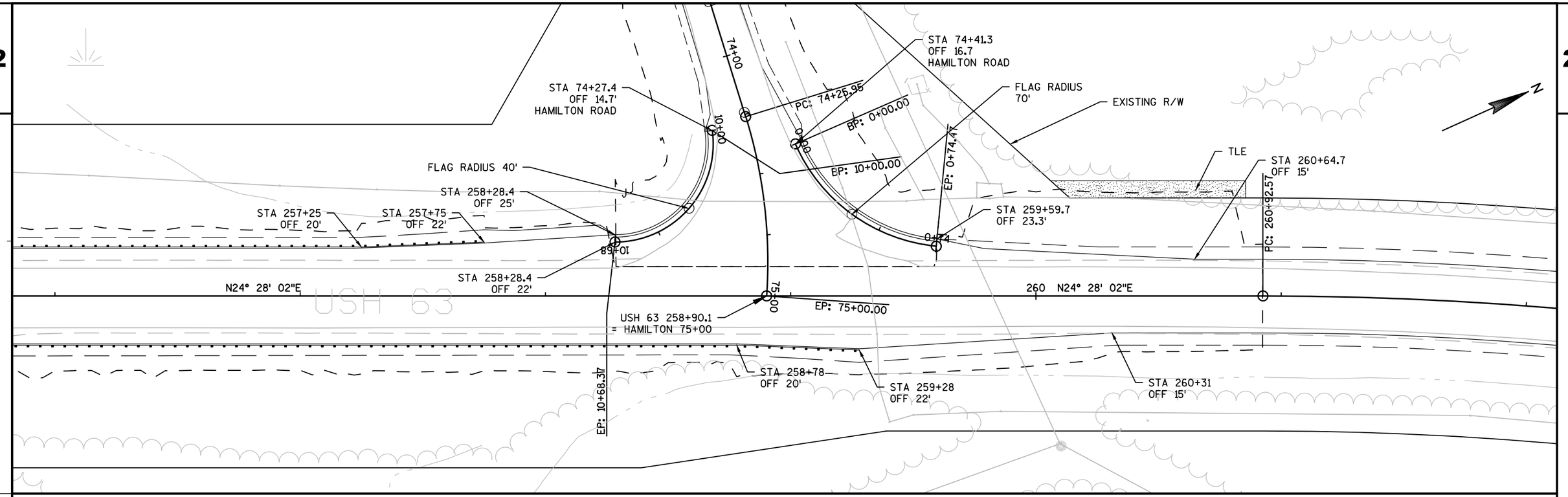
LARSON ROAD SOUTH CURB

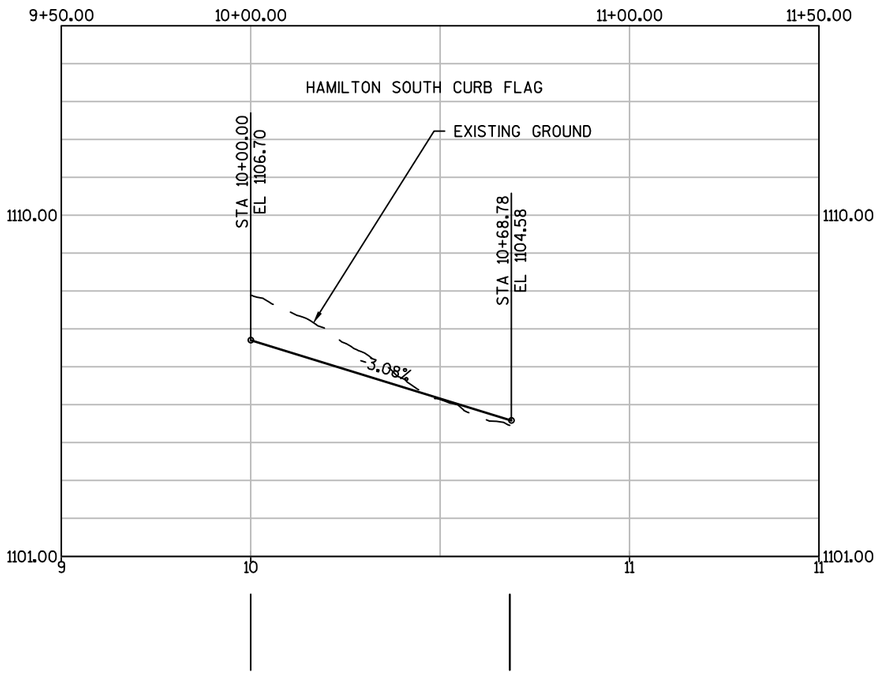


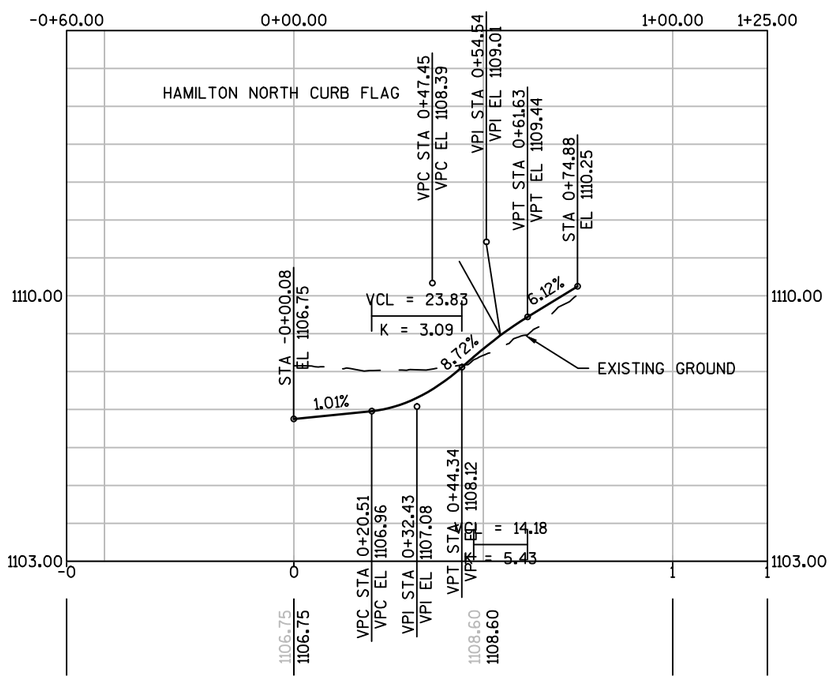
LARSON ROAD NORTH CURB



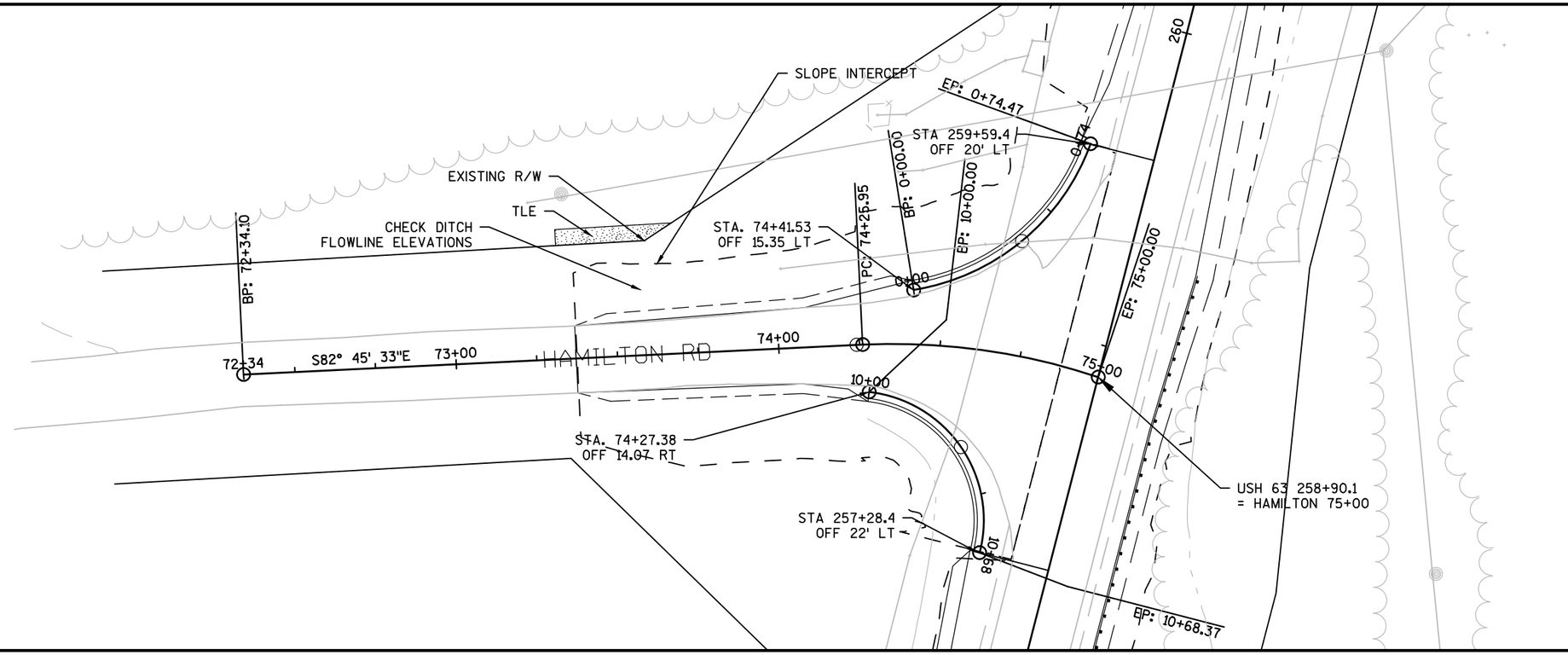
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	LARSON ROAD DETAILS	SHEET 59	E

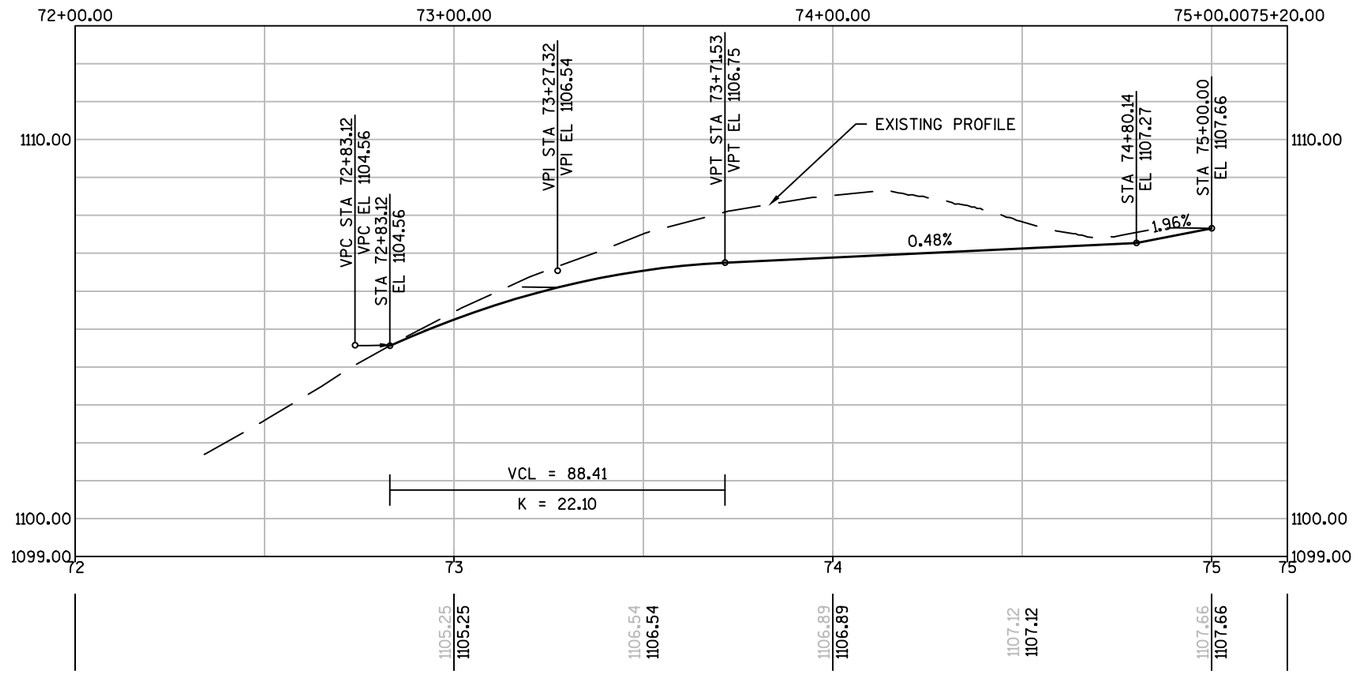




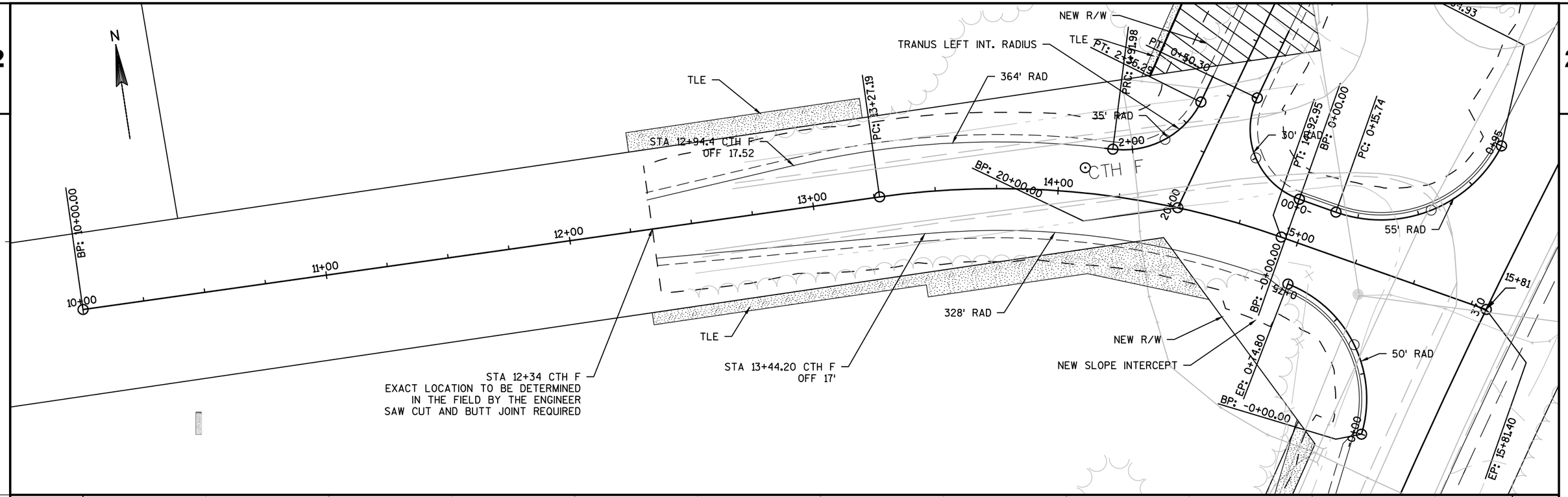


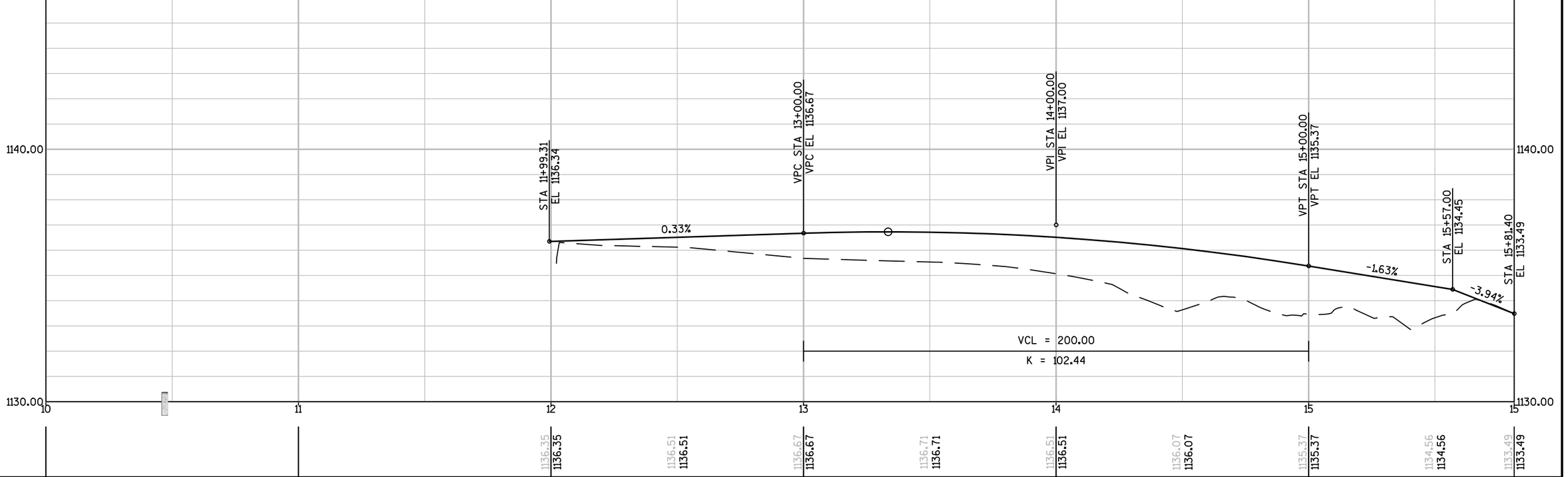
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	INTERSECTION DETAILS: HAMILTON ROAD	SHEET 60	E





PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	INTERSECTION DETAILS: HAMILTON ROAD	SHEET 61	E

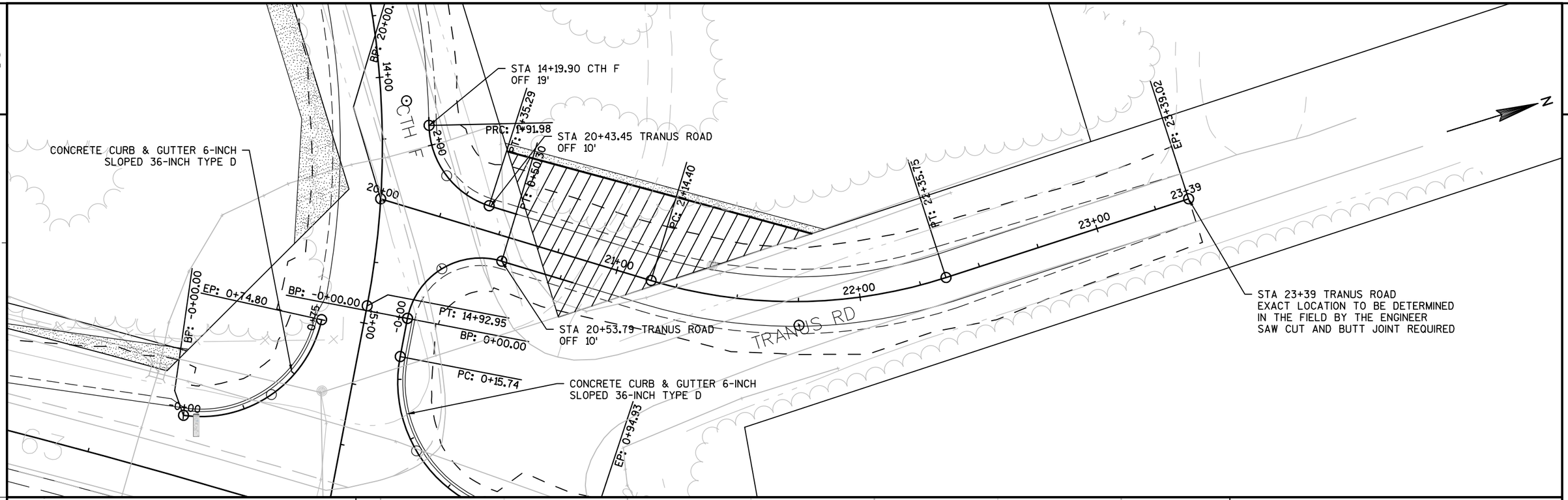


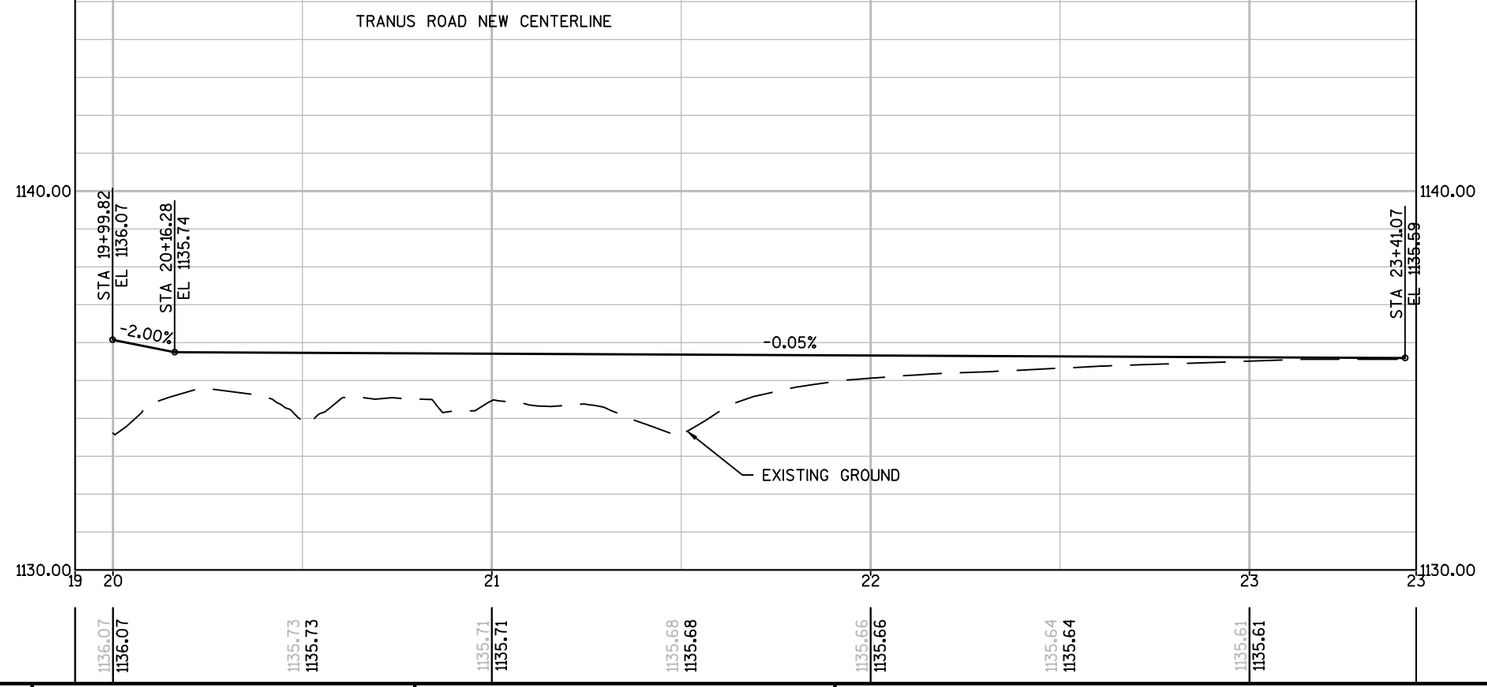


PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	INTERSECTION DETAILS: CTH F AND TRANUS ROAD	SHEET 62	E

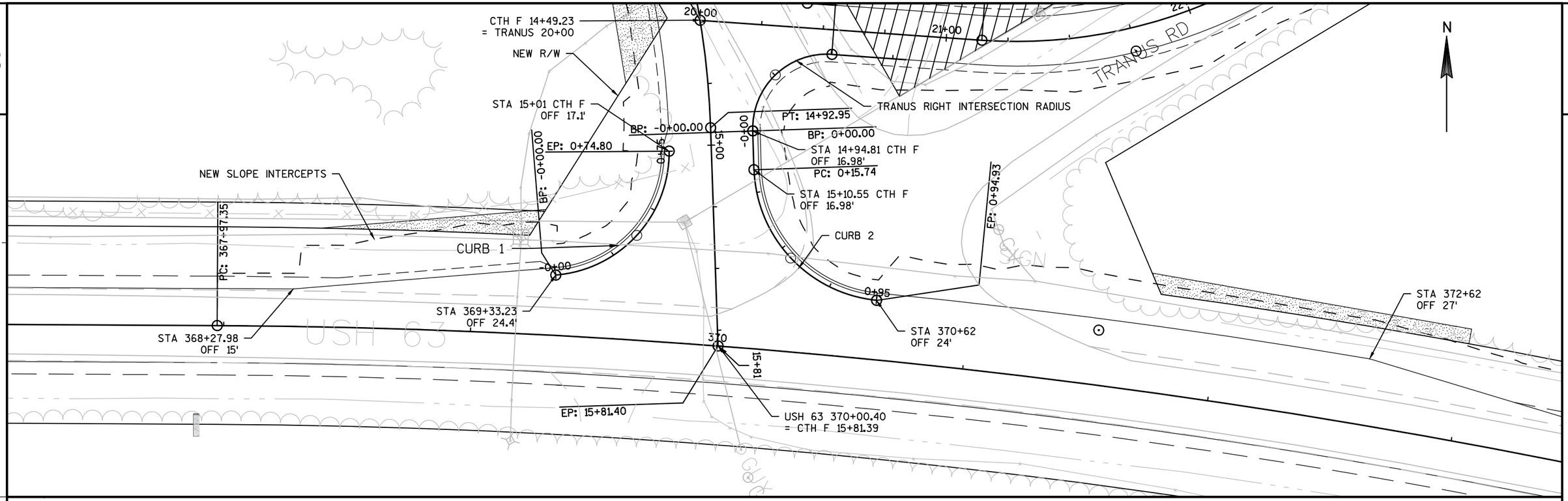
FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\INT DETAIL-CURBS\CTH F PLANSHEETS.DWG
PLOT DATE : 4/8/2015 3:35 PM
PLOT BY : PEARSON, MICHAEL R PLOT NAME :
PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 44

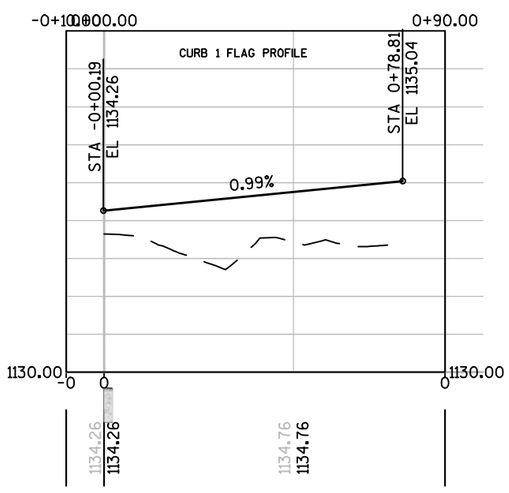
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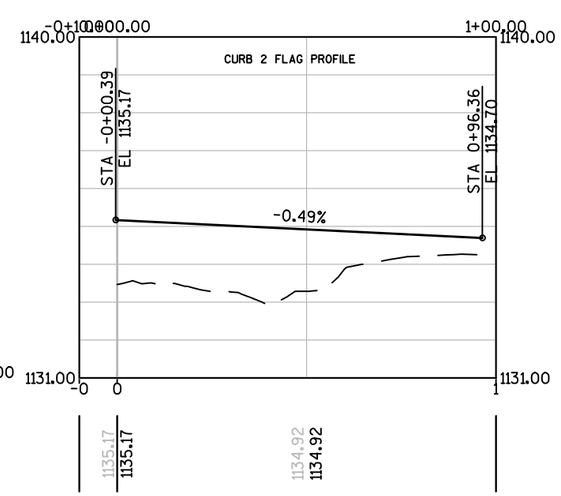


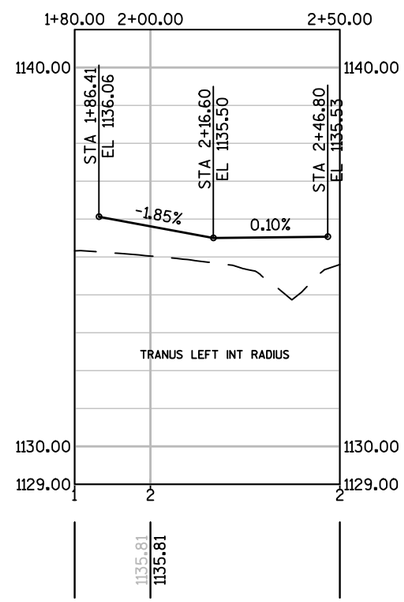


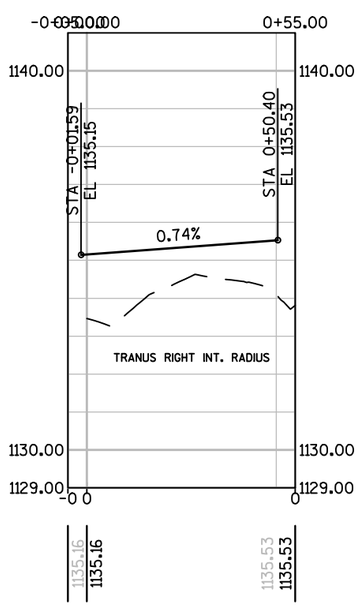
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	INTERSECTION DETAILS: CTH F AND TRANUS ROAD	SHEET 63	E



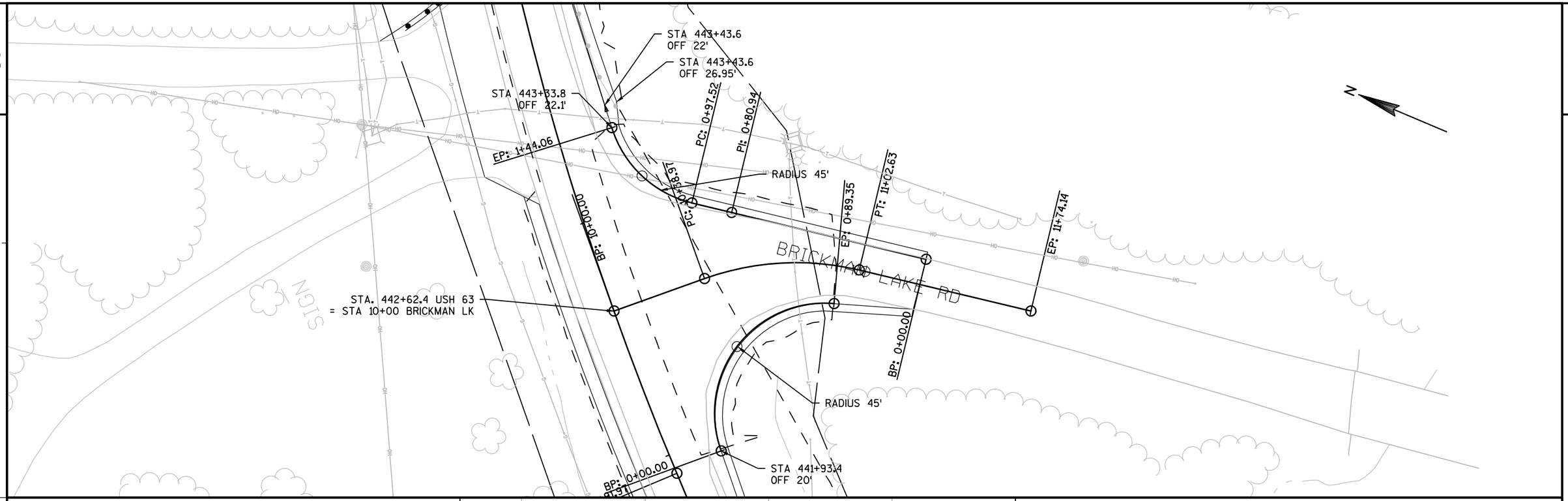


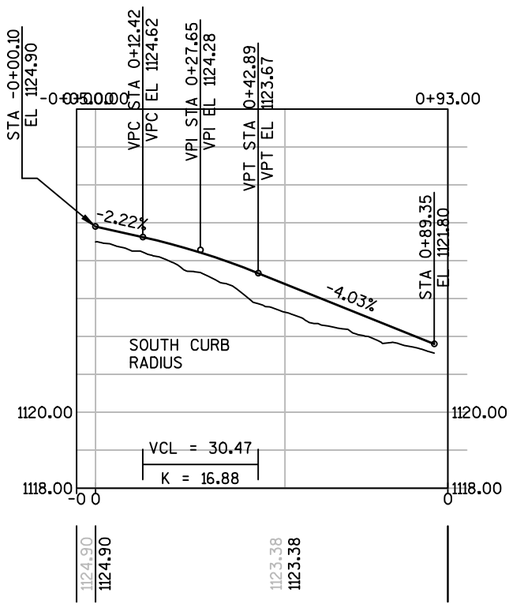


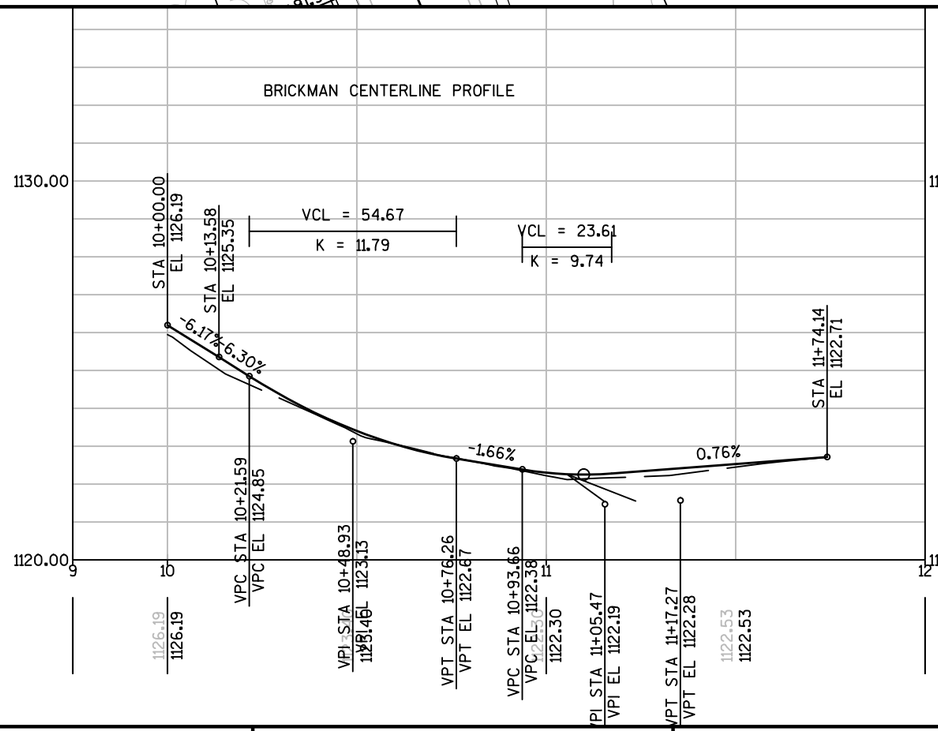


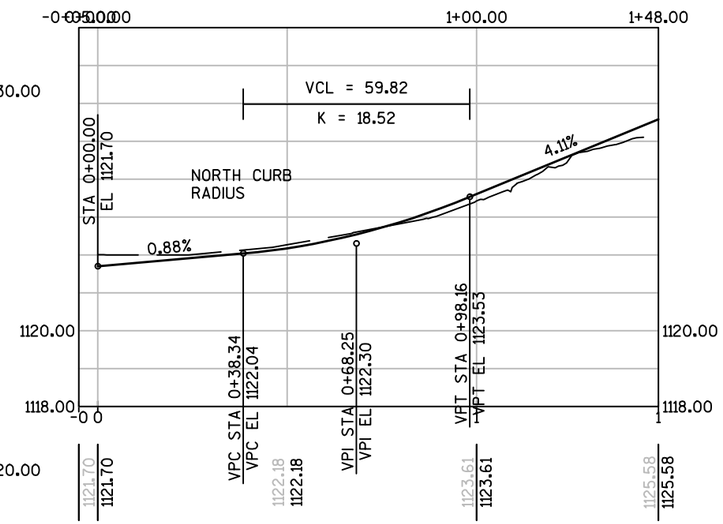


PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	INTERSECTION DETAILS: CTH F AND TRANUS ROAD	SHEET 64	E

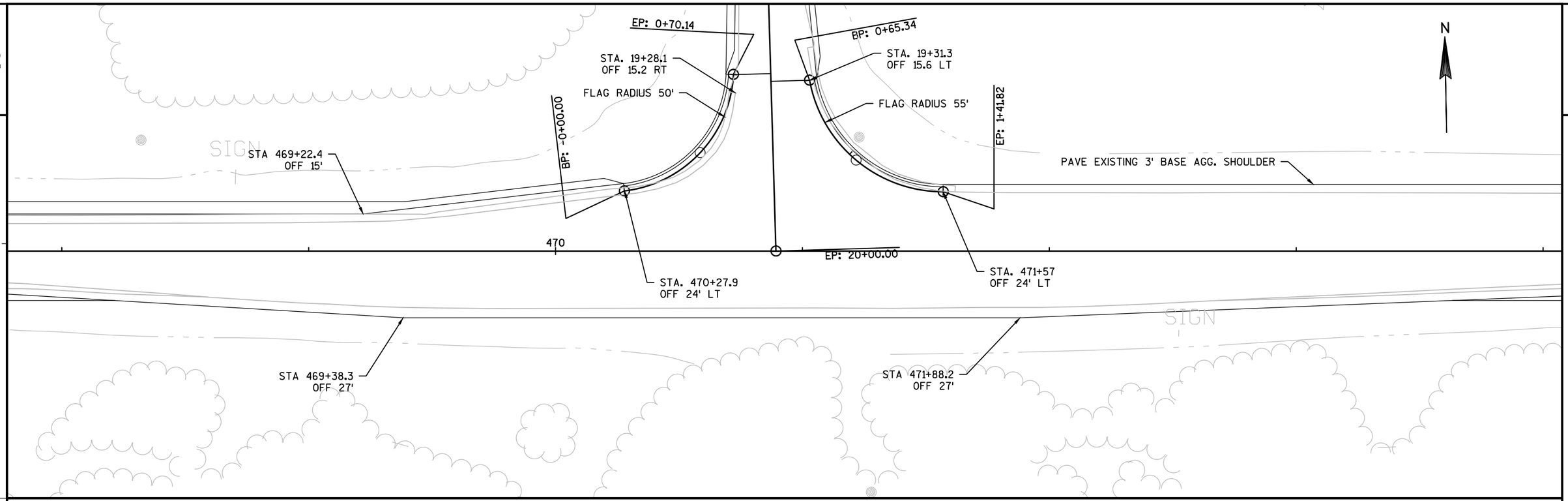




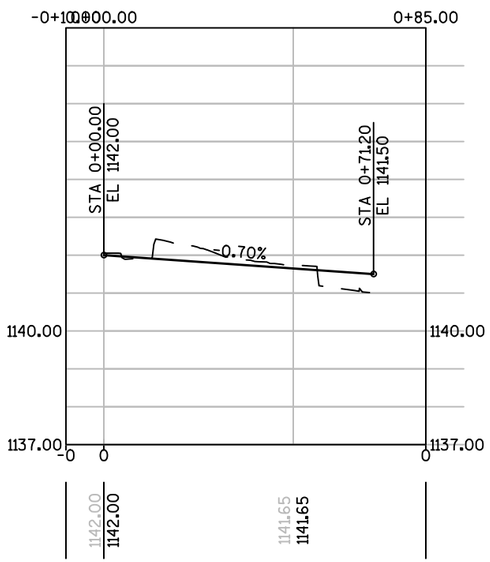




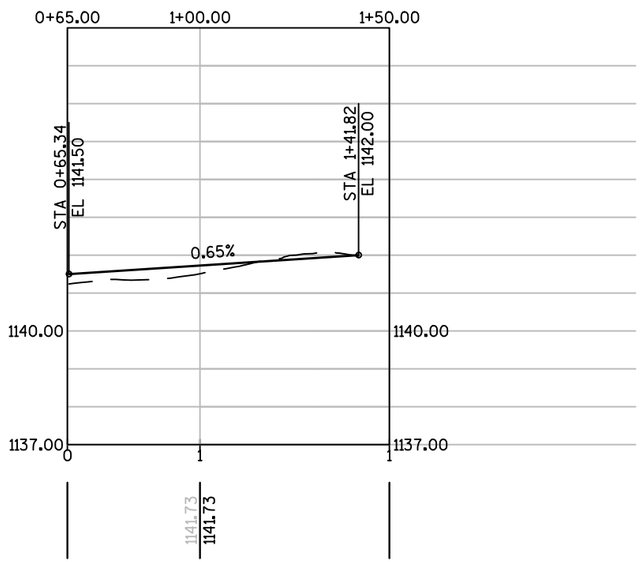
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SOUTH CURB RADIUS AT FLAG

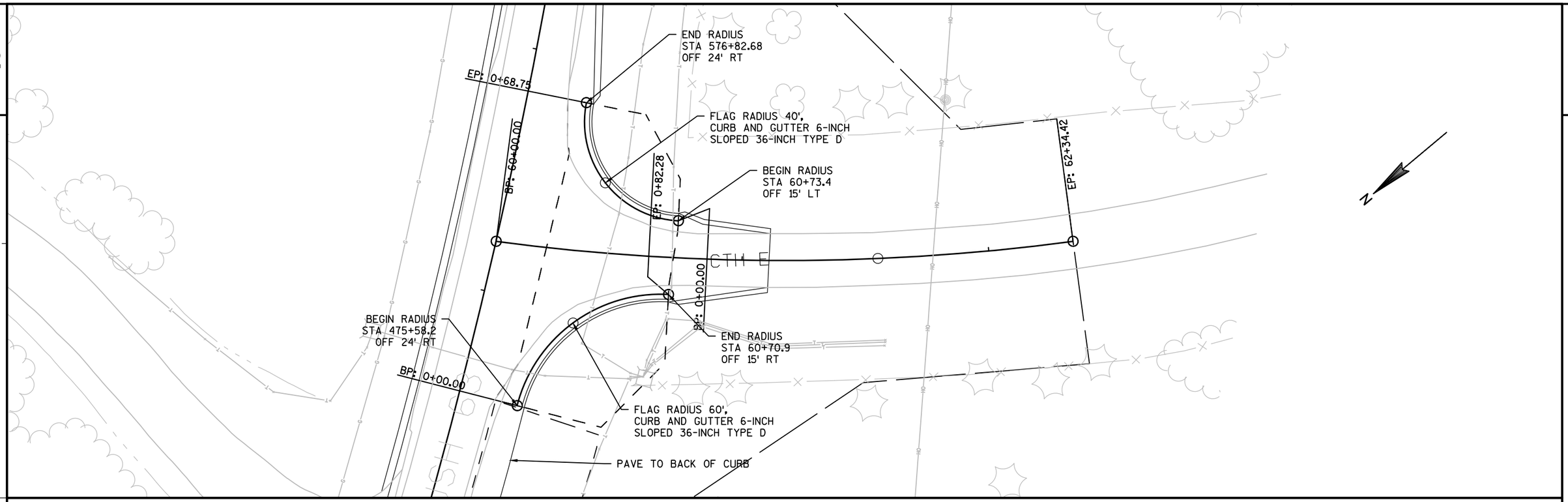


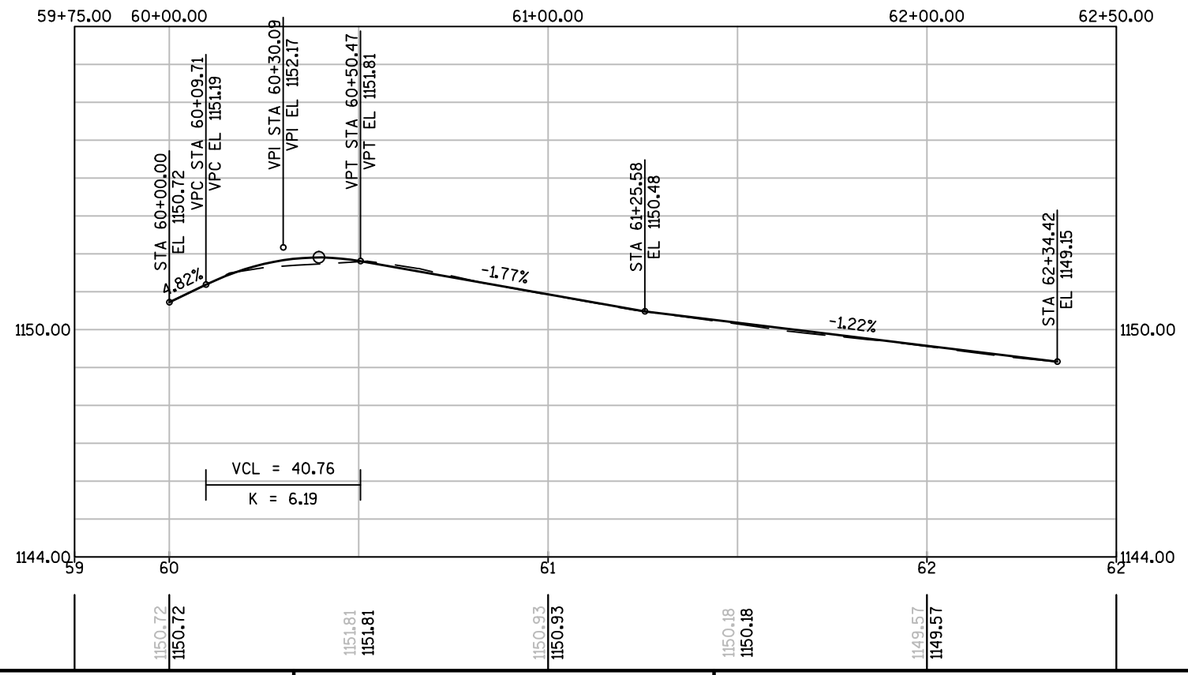
NORTH CURB RADIUS AT FLAG



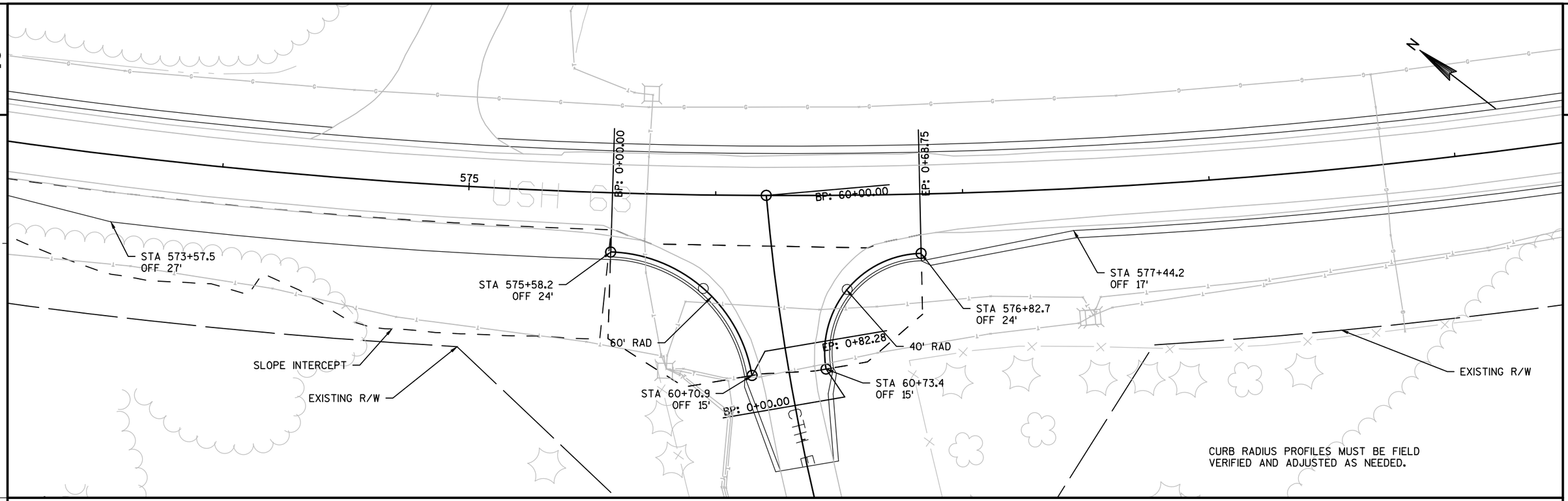
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2

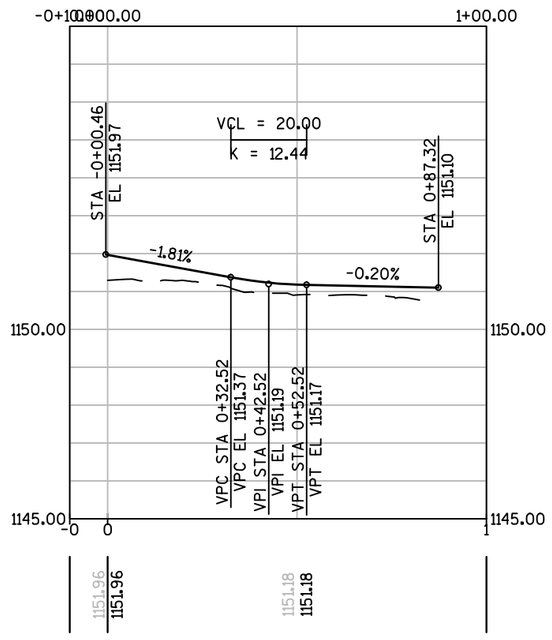




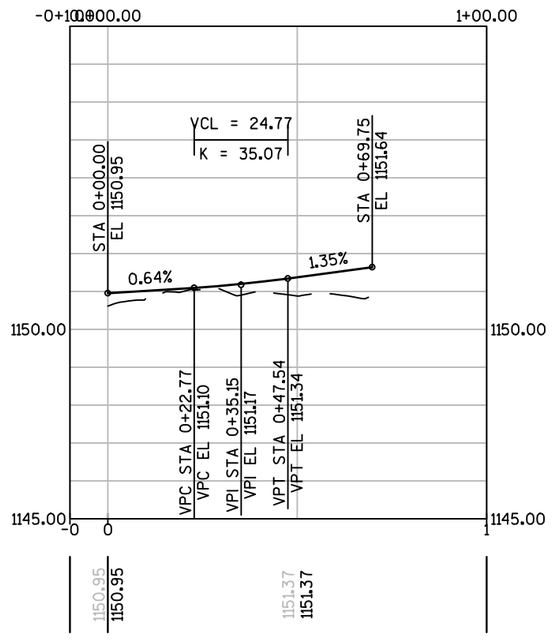
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	INTERSECTION DETAILS: CTH E INTERSECTION	SHEET 67	E



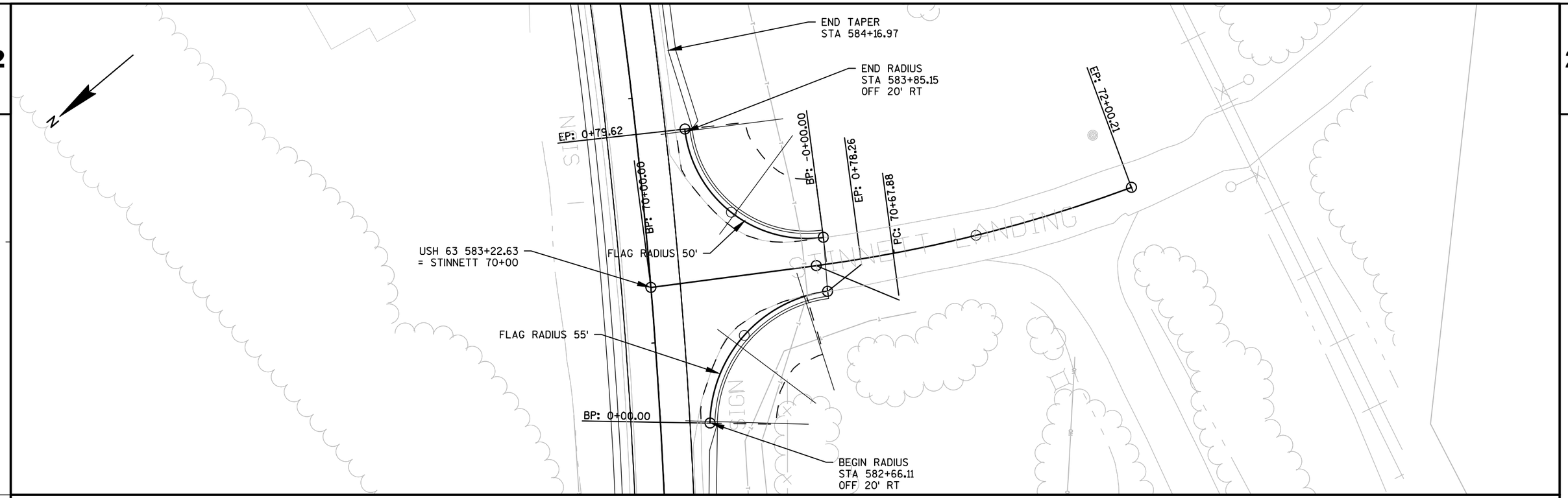
CTH E SOUTH CURB RADIUS

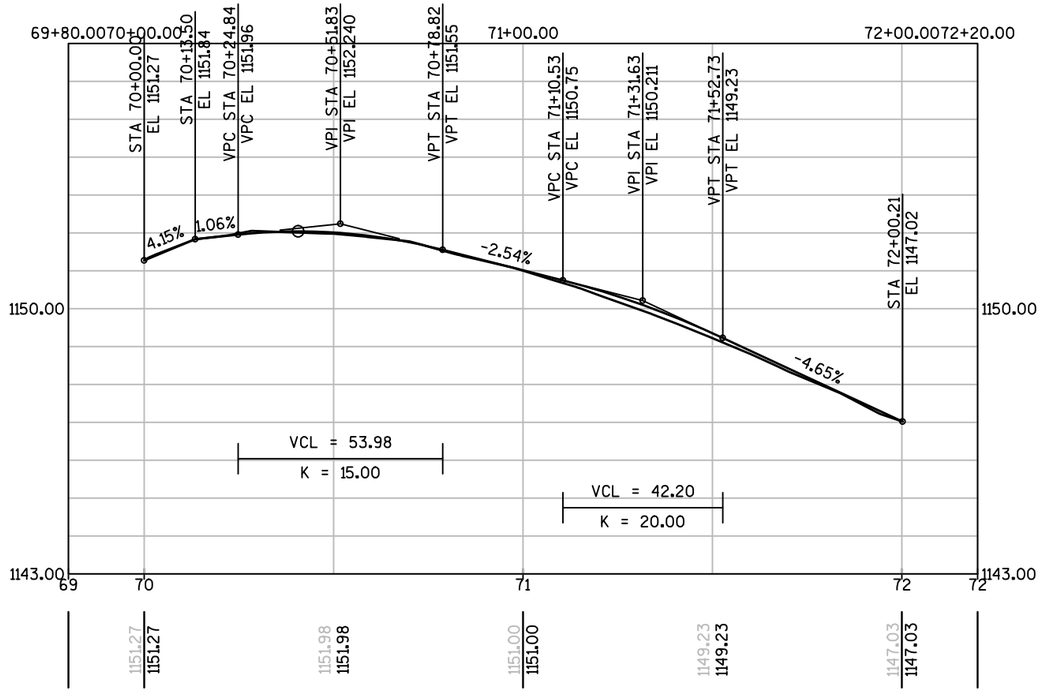


CTH E NORTH CURB RADIUS



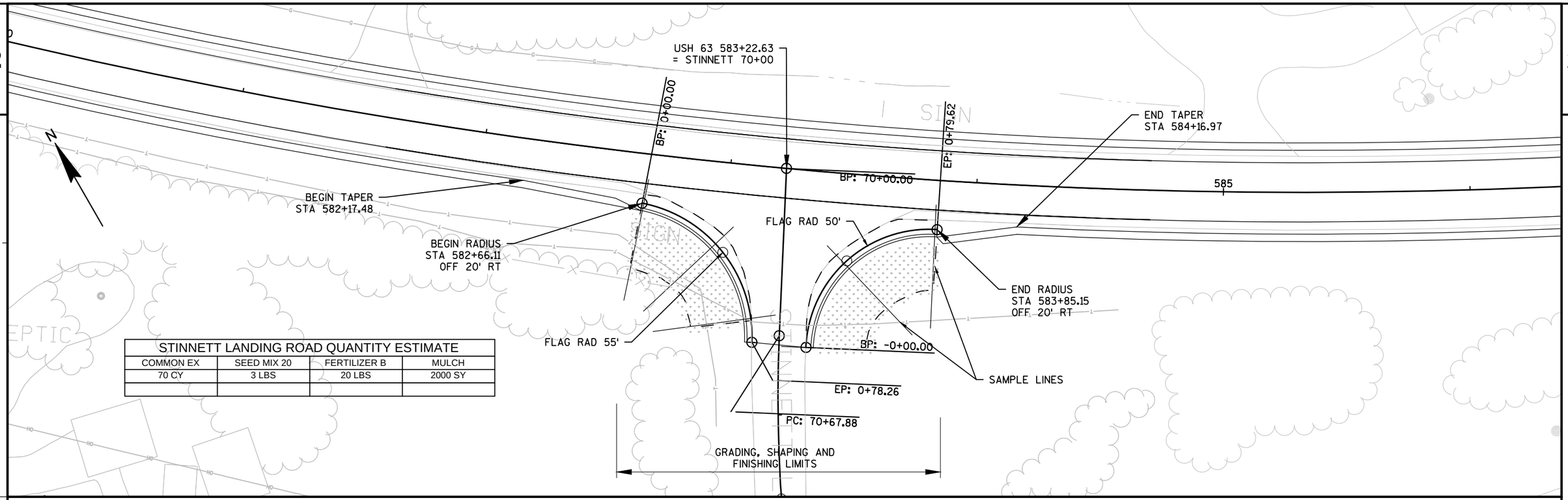
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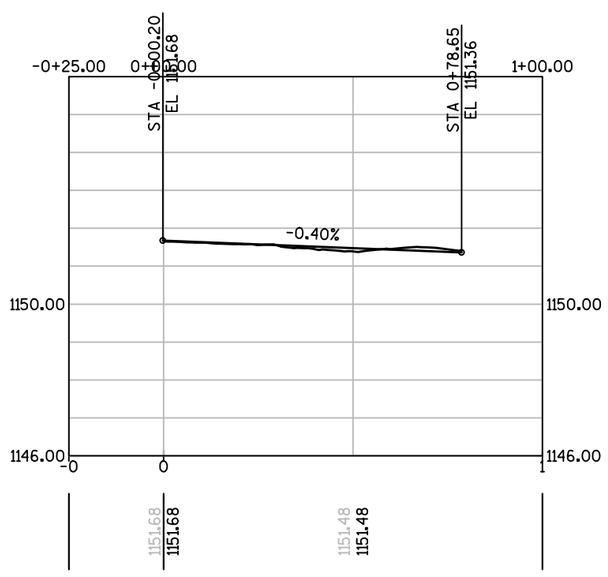


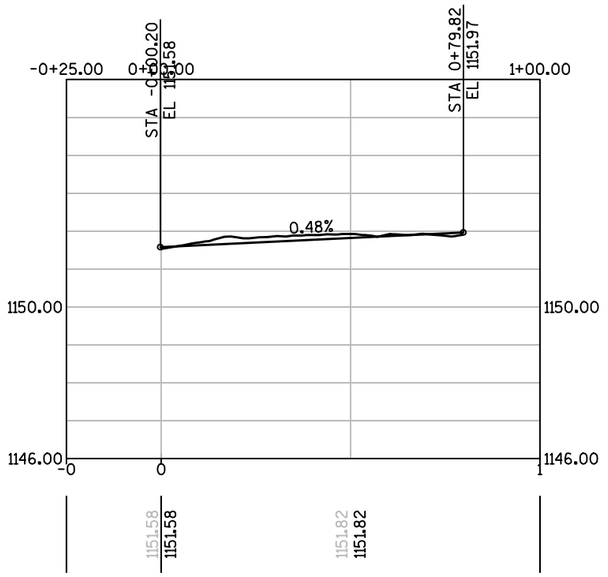
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	STINNET LANDING ROAD	SHEET 69	E

2

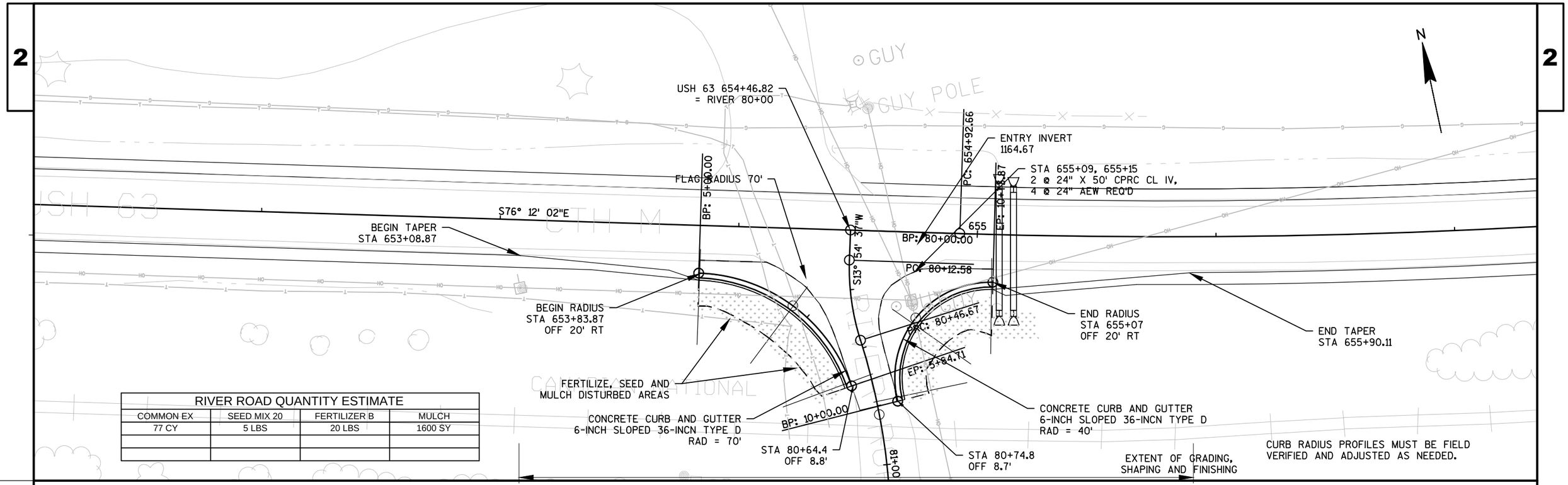


STINNETT LANDING ROAD QUANTITY ESTIMATE			
COMMON EX	SEED MIX 20	FERTILIZER B	MULCH
70 CY	3 LBS	20 LBS	2000 SY



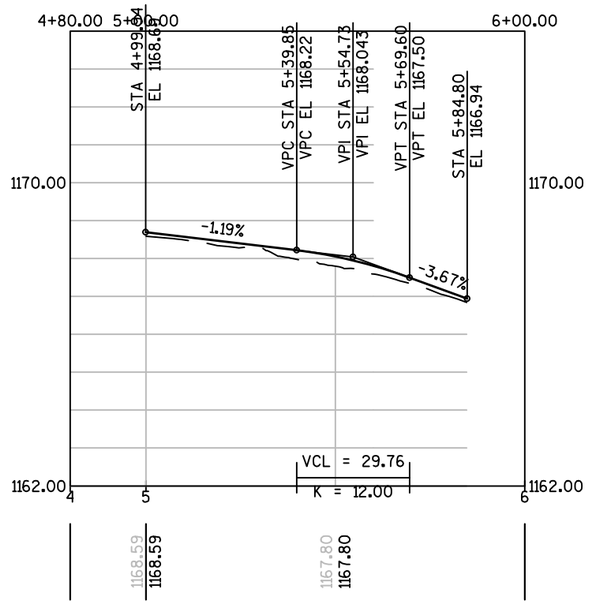


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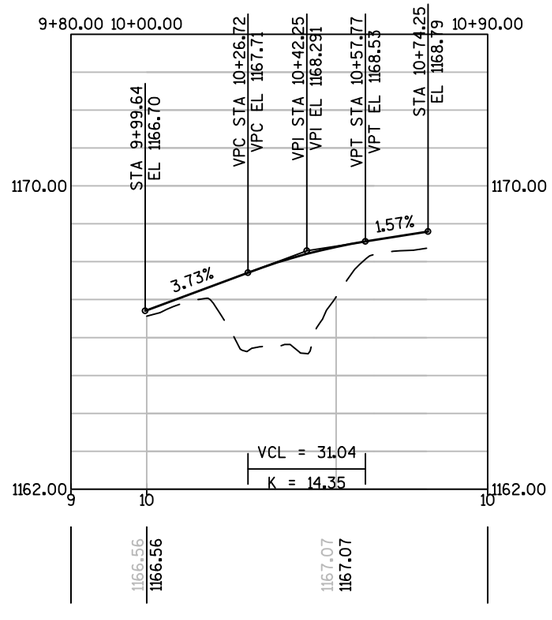


RIVER ROAD QUANTITY ESTIMATE			
COMMON EX	SEED MIX 20	FERTILIZER B	MULCH
77 CY	5 LBS	20 LBS	1600 SY

RIVER ROAD SOUTH CURB PROFILE



RIVER ROAD NORTH CURB PROFILE

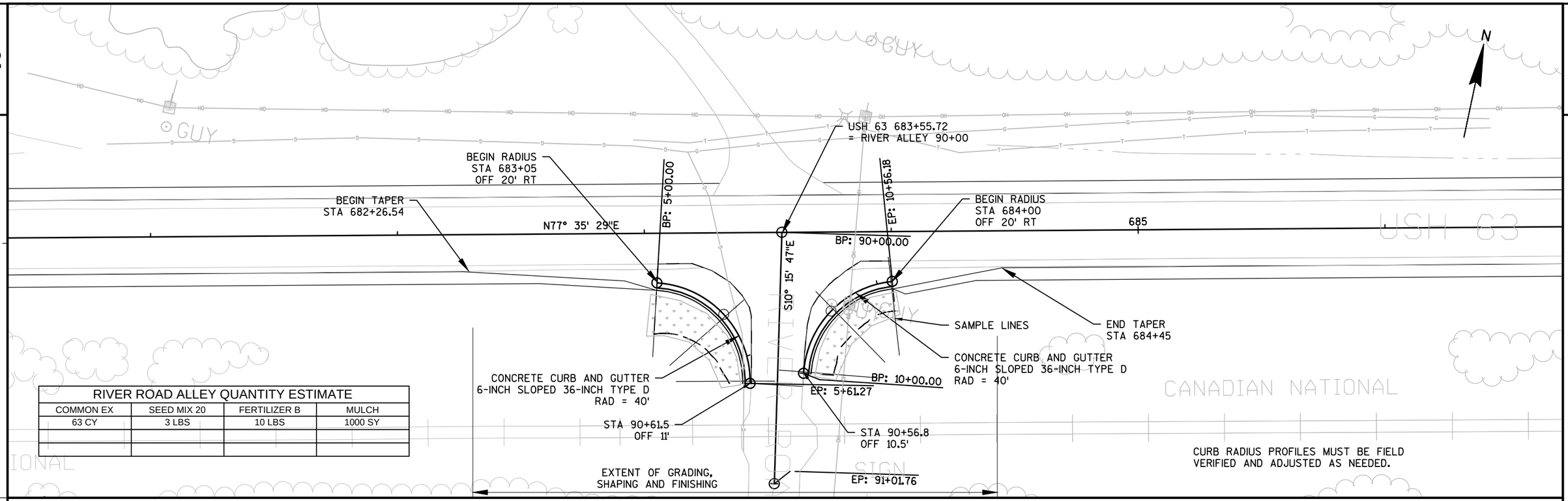


PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CONSTRUCTION DETAILS - RIVER ROAD	SHEET 71	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-RIVER ALLEY.DWG
LAYOUT NAME - ####

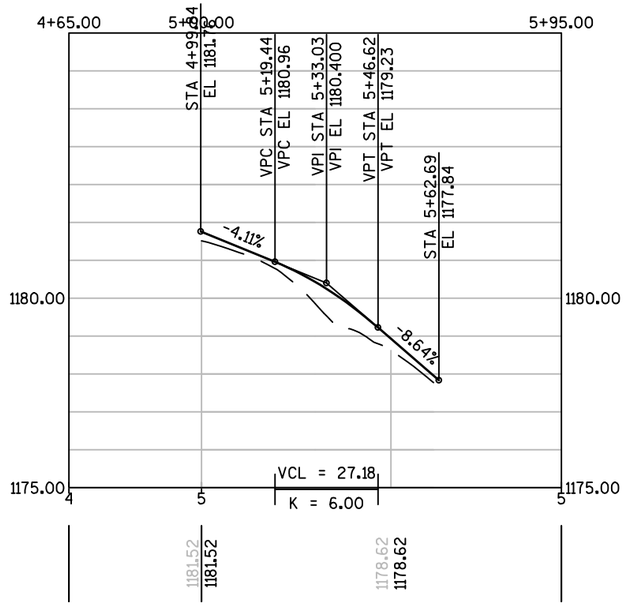
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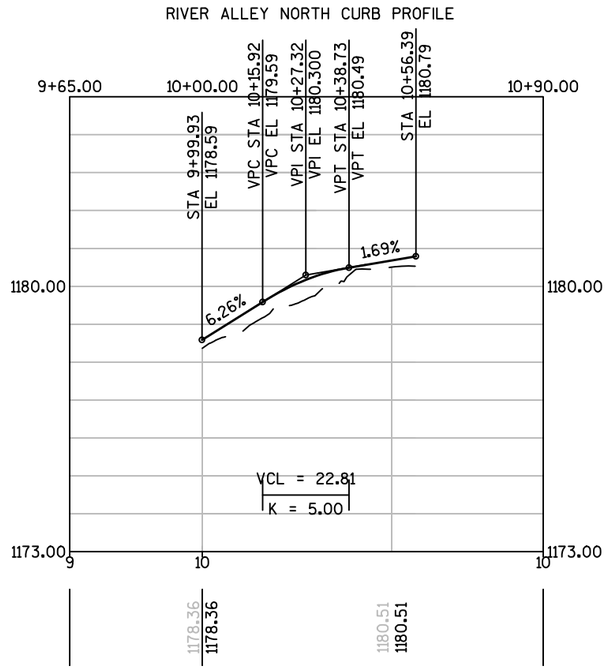


RIVER ROAD ALLEY QUANTITY ESTIMATE			
COMMON EX	SEED MIX 20	FERTILIZER B	MULCH
63 CY	3 LBS	10 LBS	1000 SY

RIVER ALLEY SOUTH CURB PROFILE

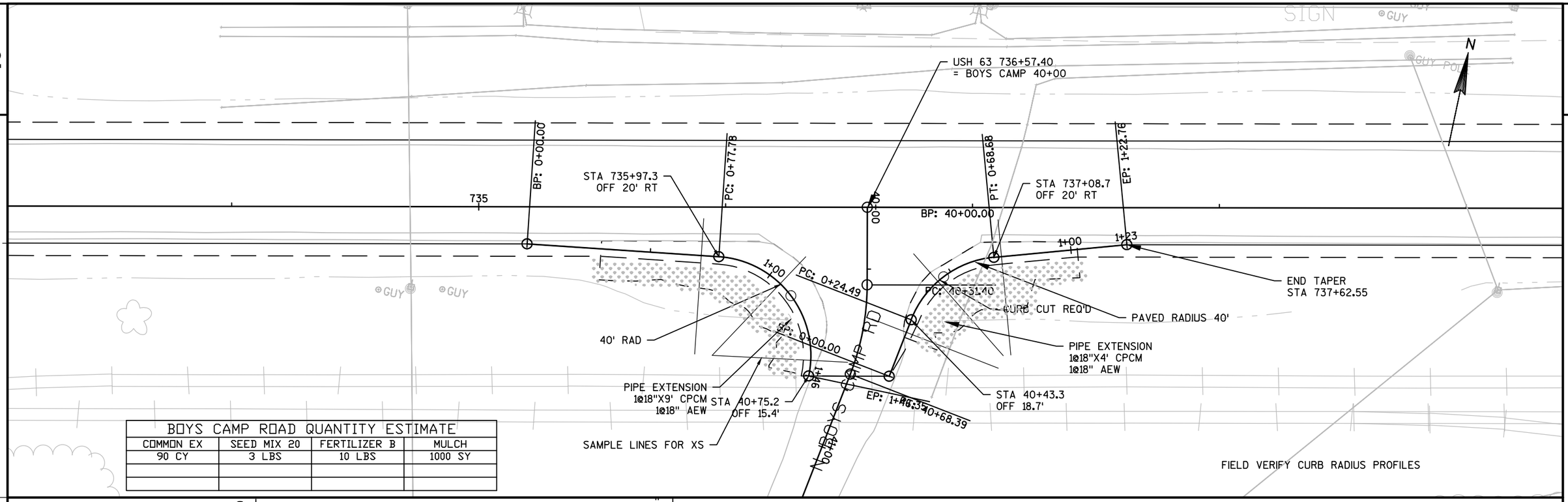


RIVER ALLEY NORTH CURB PROFILE

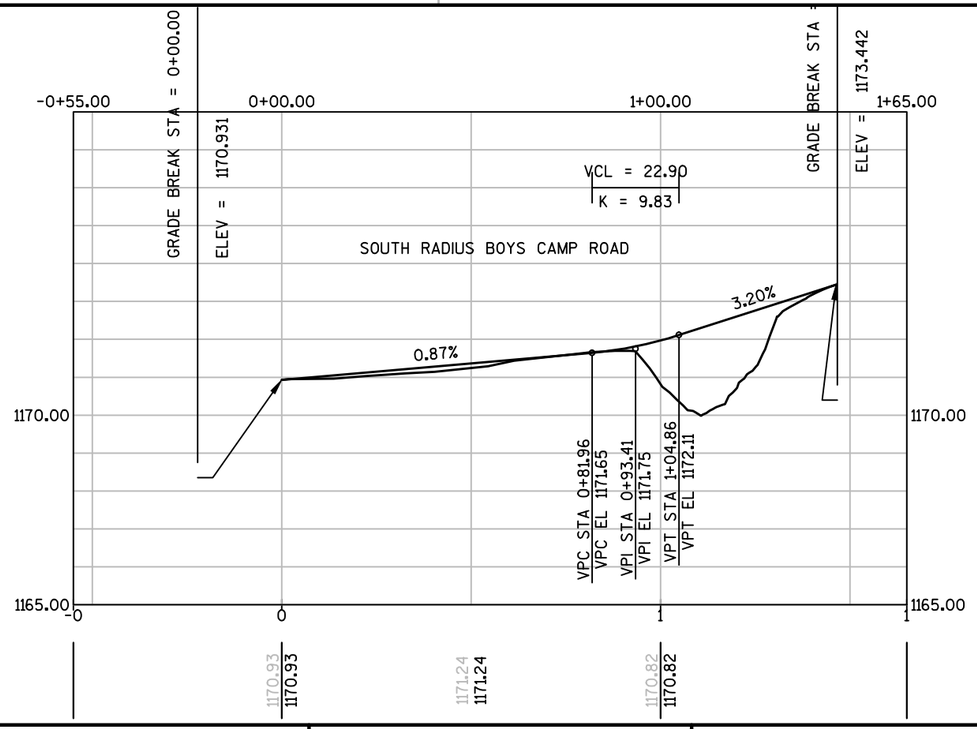


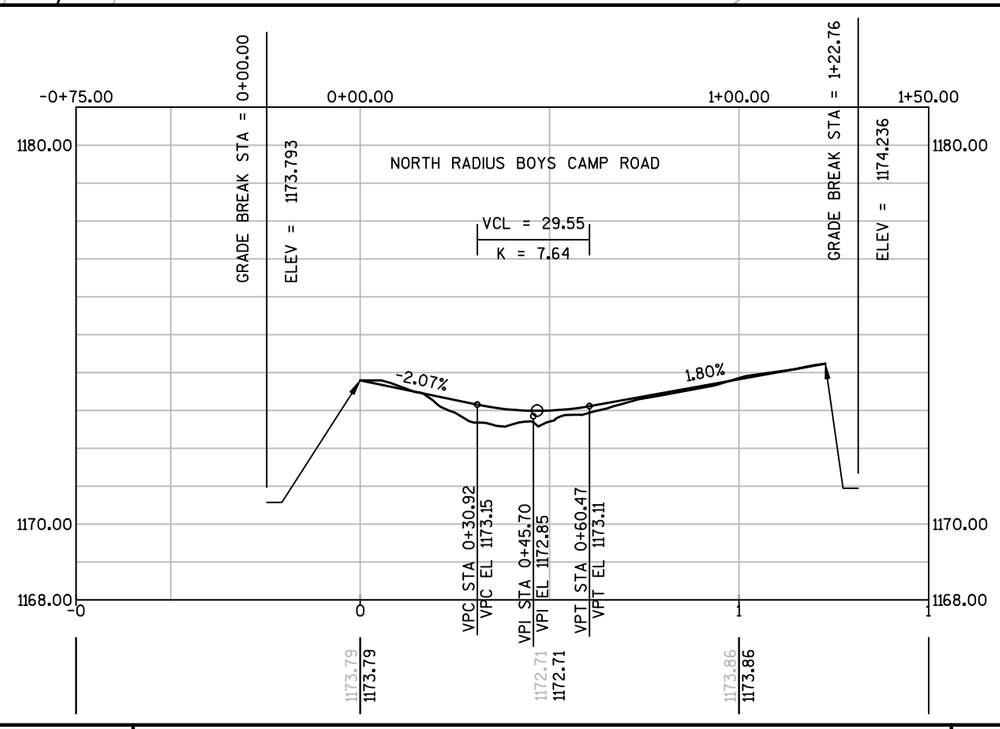
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CONSTRUCTION DETAILS - RIVER ROAD ALLEY	SHEET 72	E

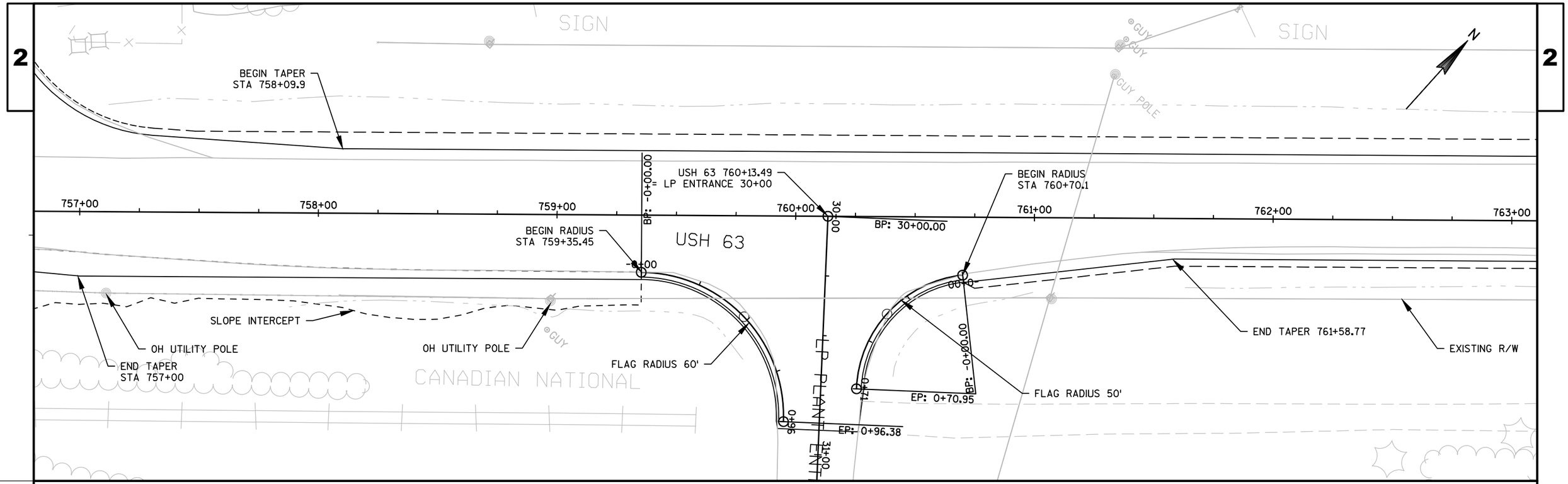
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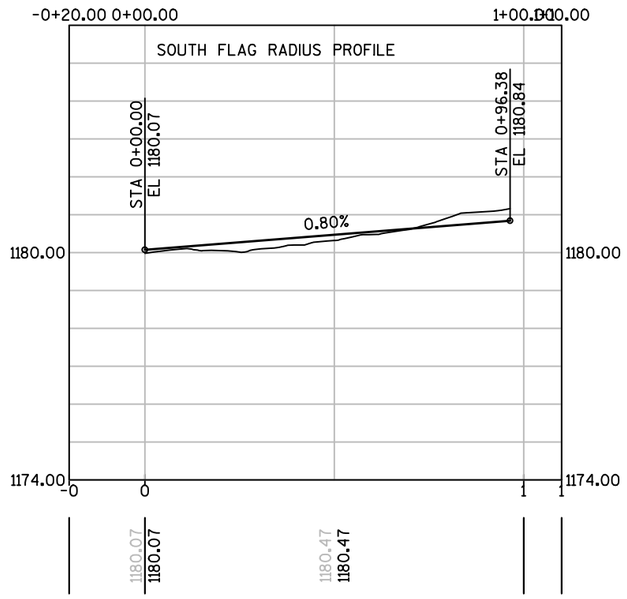


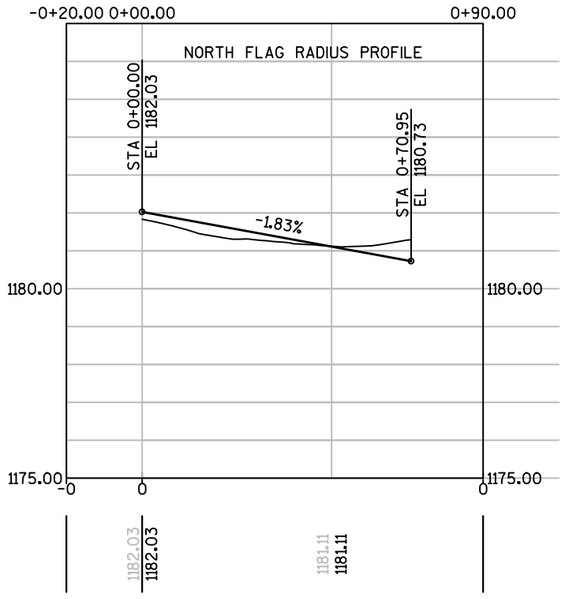
BOYS CAMP ROAD QUANTITY ESTIMATE			
COMMON EX	SEED MIX 20	FERTILIZER B	MULCH
90 CY	3 LBS	10 LBS	1000 SY



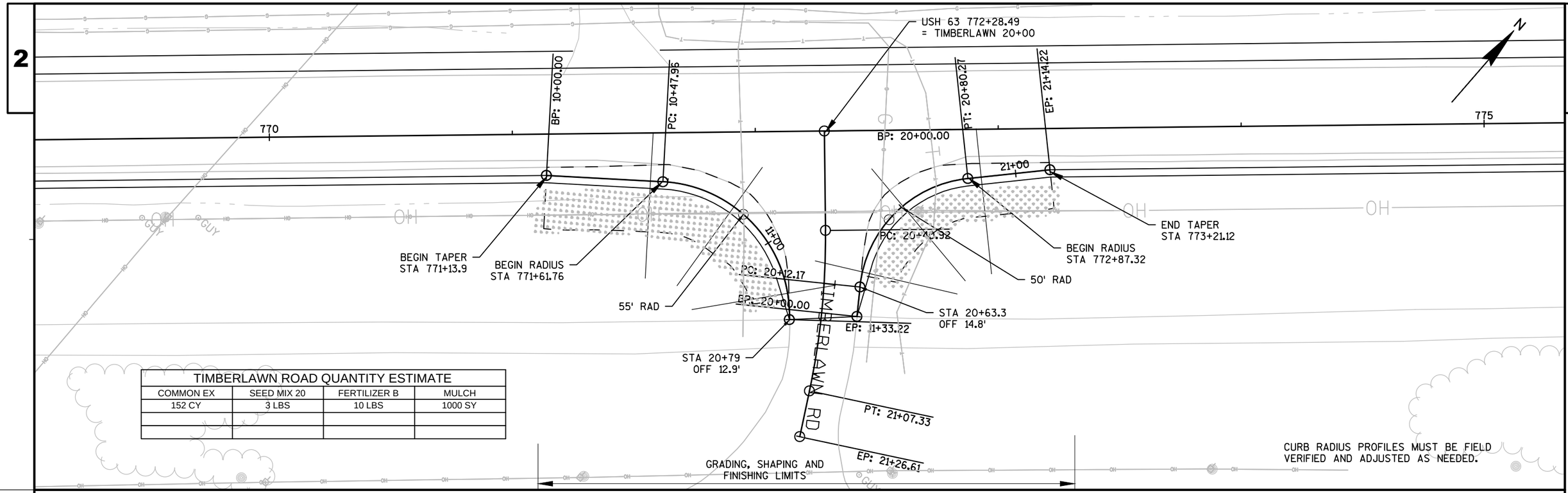






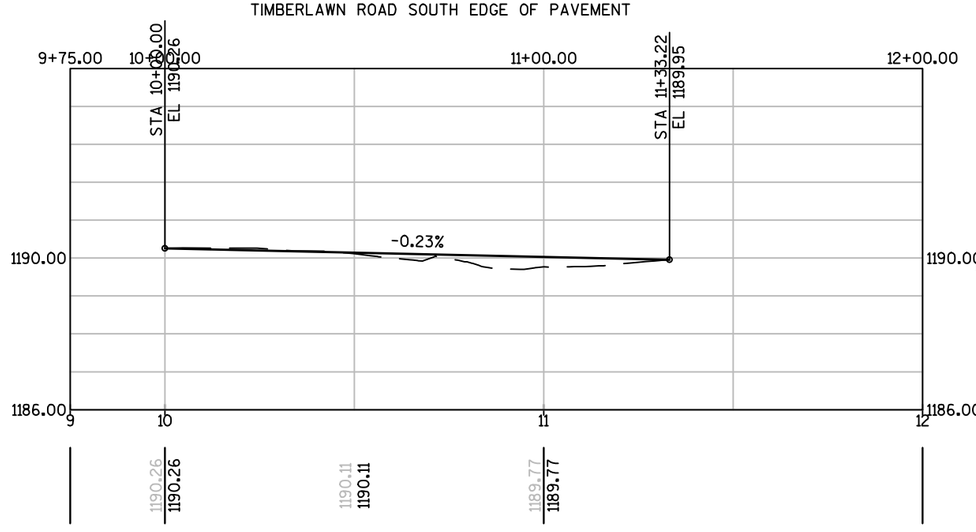


PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	L P PLANT RADIUS	SHEET 74	E

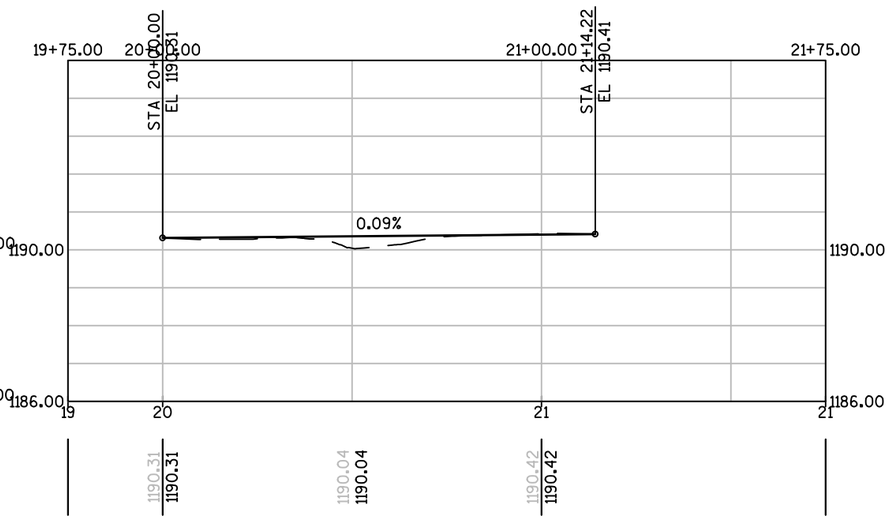


TIMBERLAWN ROAD QUANTITY ESTIMATE			
COMMON EX	SEED MIX 20	FERTILIZER B	MULCH
152 CY	3 LBS	10 LBS	1000 SY

TIMBERLAWN ROAD SOUTH EDGE OF PAVEMENT



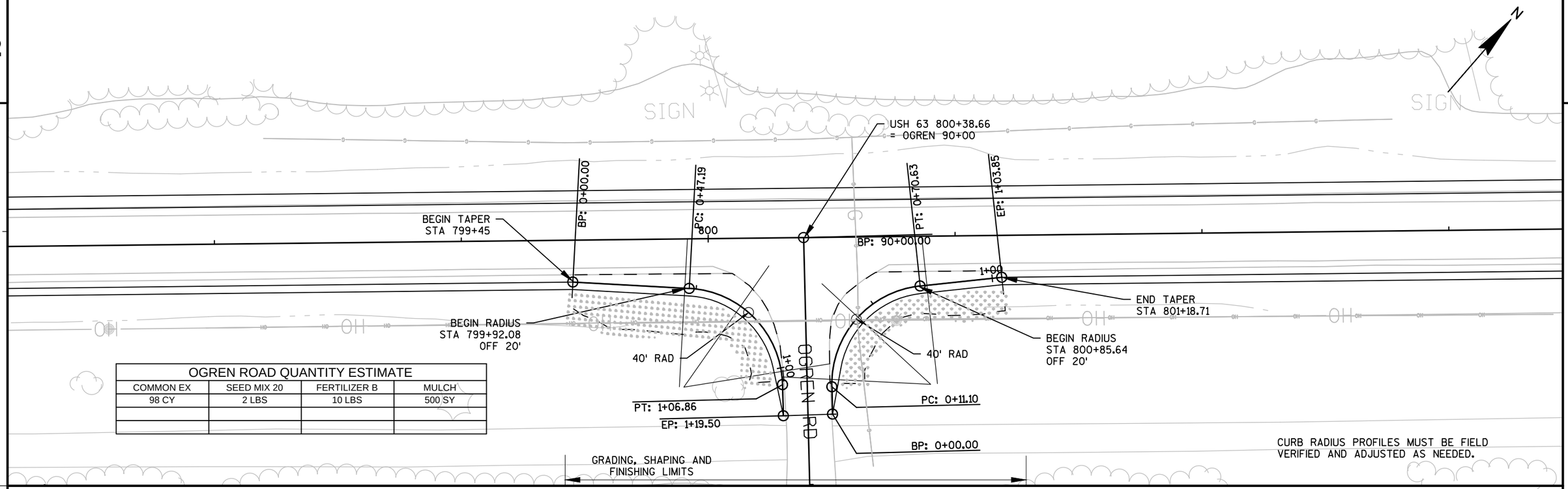
TIMBERLAWN ROAD NORTH EDGE OF PAVEMENT



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CONSTRUCTION DETAILS - TIMBERLAWN RADII	SHEET 75	E

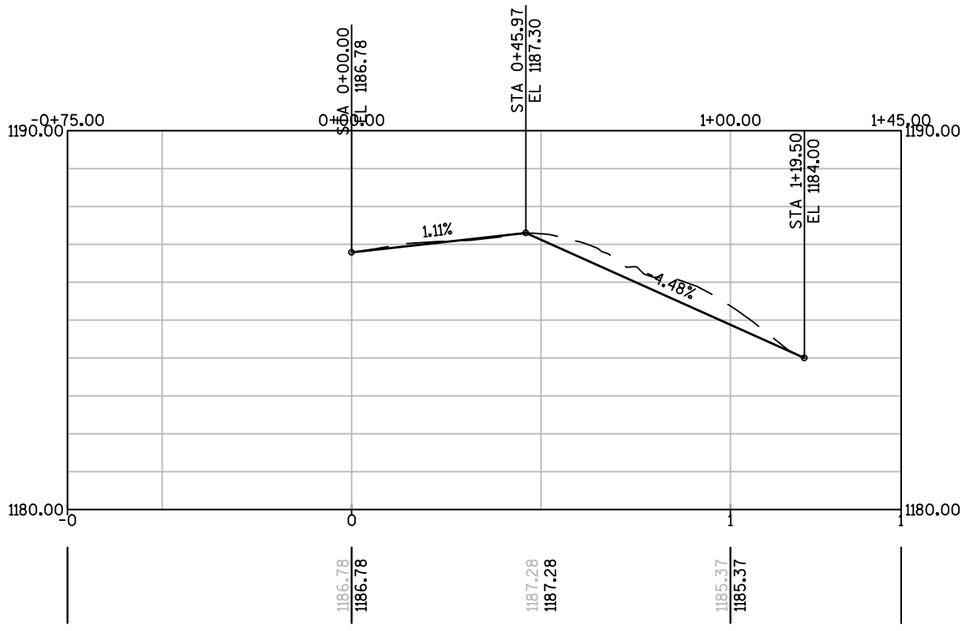
FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR SIDE RD TIMBER TO STRESS.DWG
LAYOUT NAME - ****
PLOT DATE : 2/5/2015 12:41 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 44

2

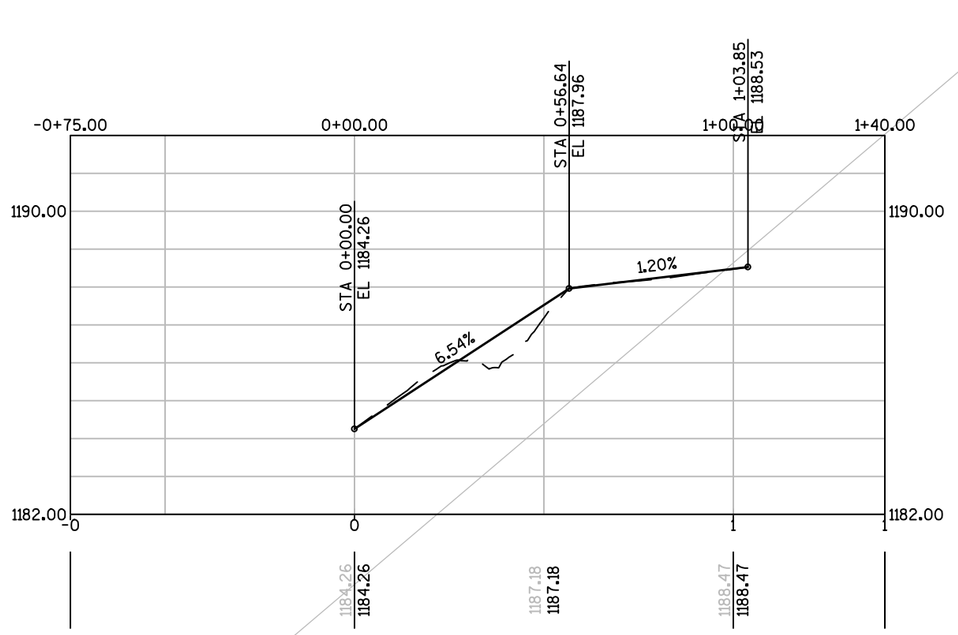


OGREN ROAD QUANTITY ESTIMATE			
COMMON EX	SEED MIX 20	FERTILIZER B	MULCH
98 CY	2 LBS	10 LBS	500 SY

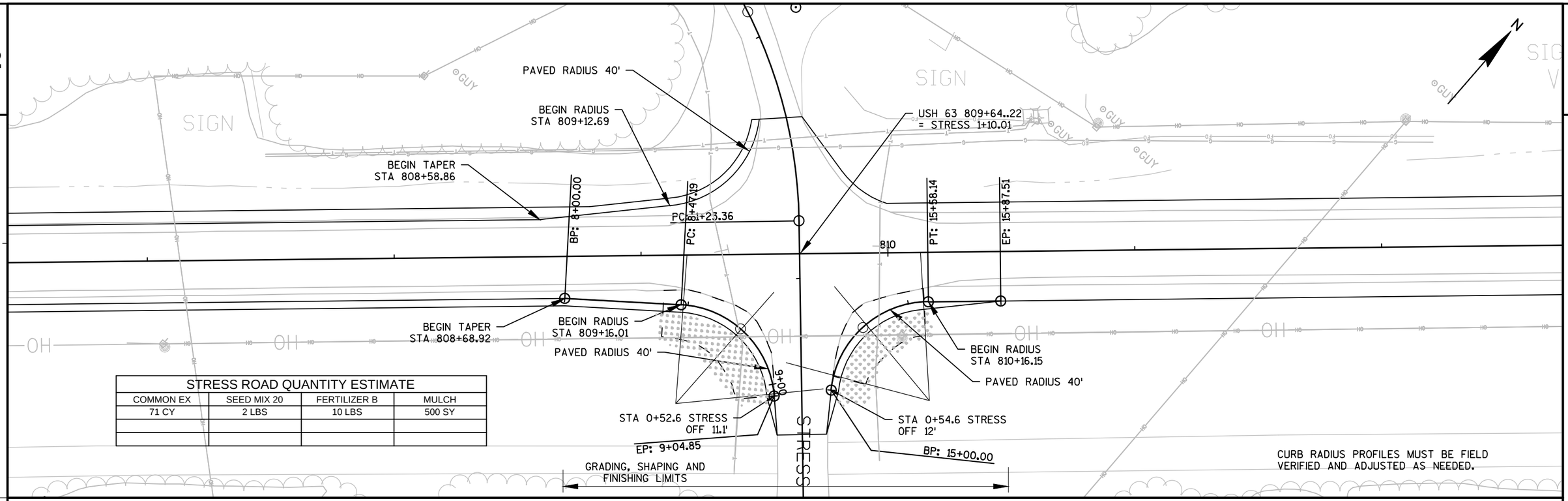
OGREN ROAD SOUTH EDGE OF PAVEMENT



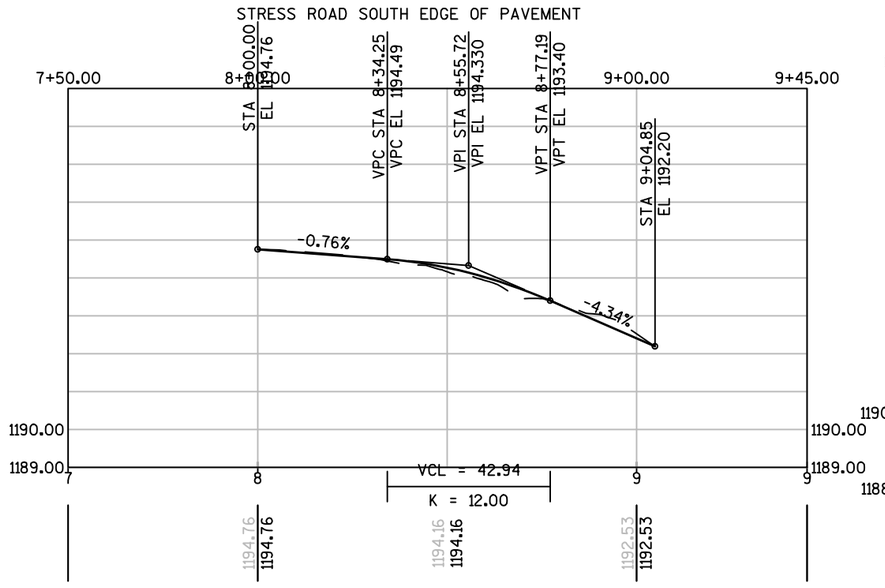
OGREN ROAD NORTH EDGE OF PAVEMENT

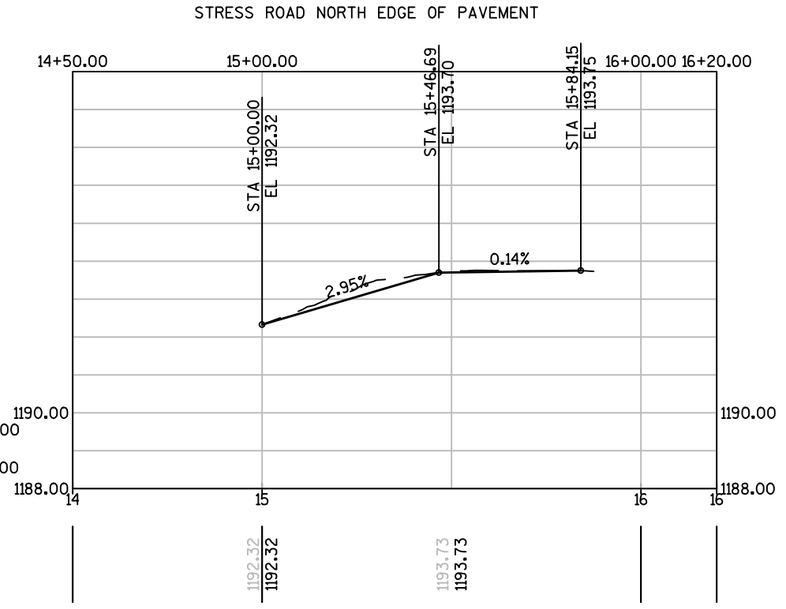


PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CONSTRUCTION DETAILS - OGREN RADII	SHEET 76	E



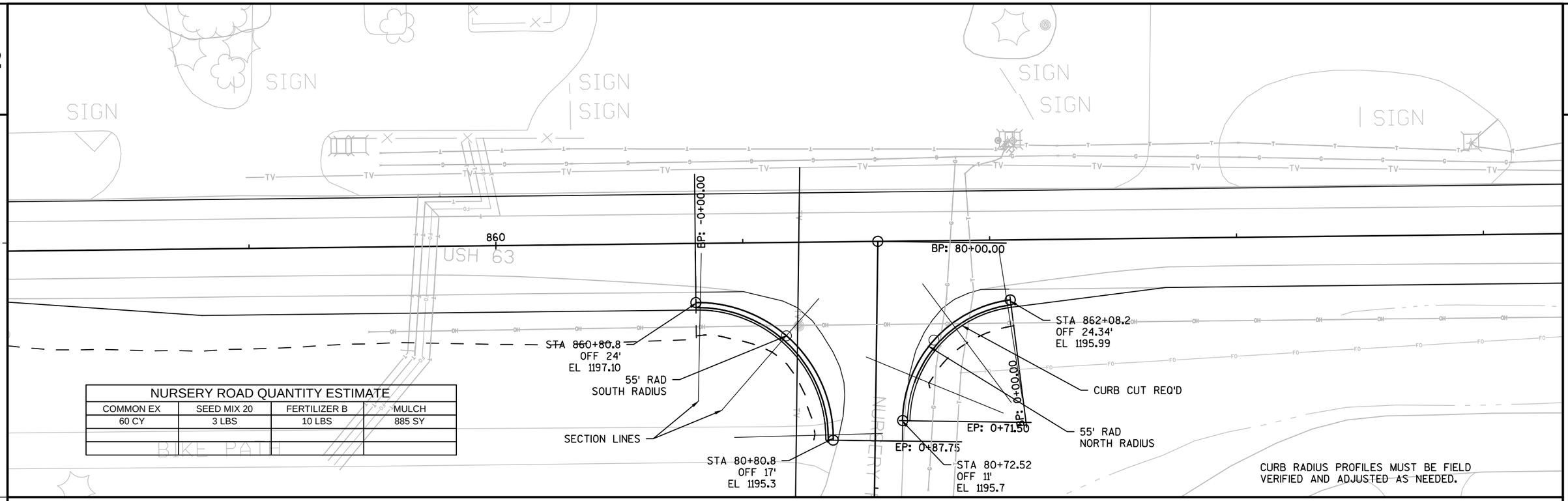
STRESS ROAD QUANTITY ESTIMATE			
COMMON EX	SEED MIX 20	FERTILIZER B	MULCH
71 CY	2 LBS	10 LBS	500 SY



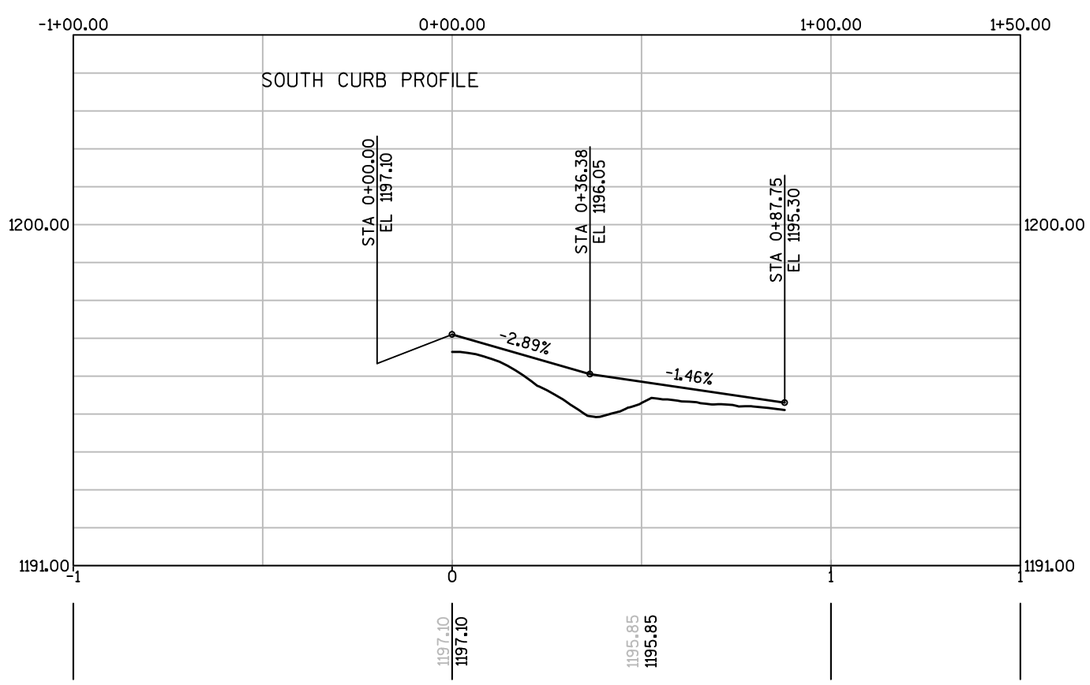


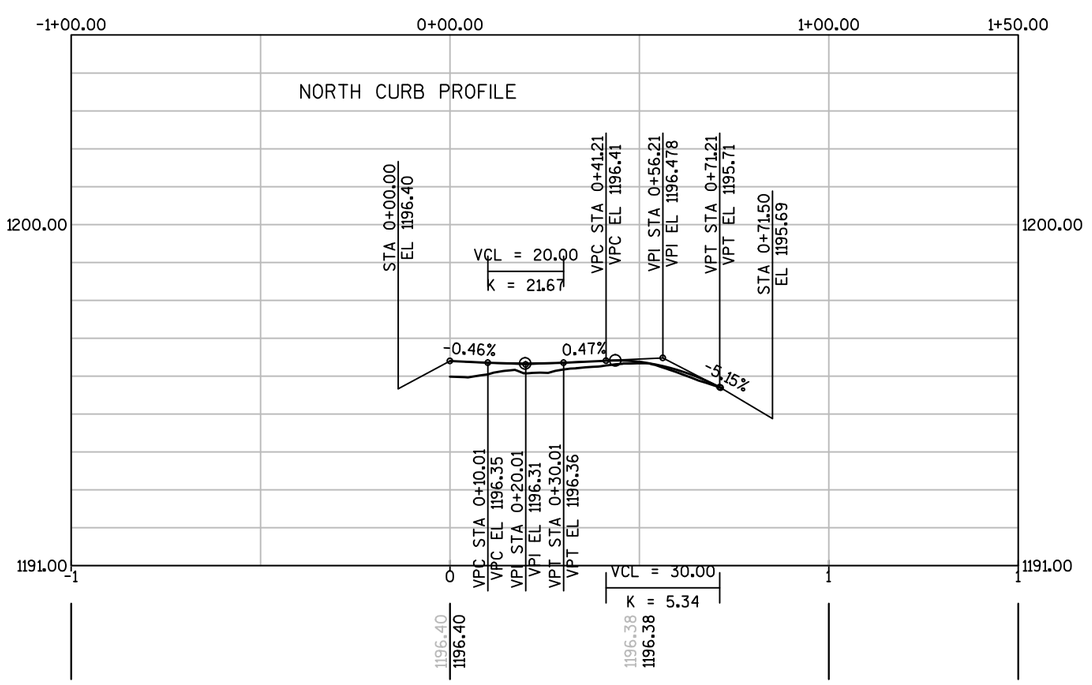
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CONSTRUCTION DETAILS - STRESS RADII	SHEET 77	E

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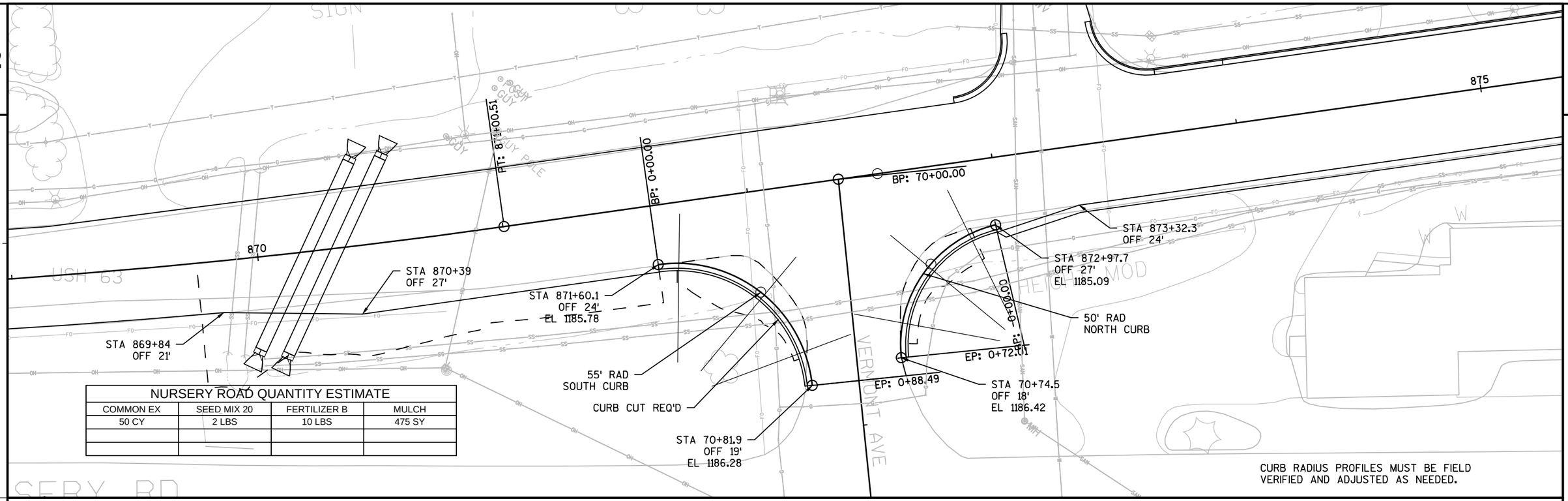


NURSERY ROAD QUANTITY ESTIMATE			
COMMON EX	SEED MIX 20	FERTILIZER B	MULCH
60 CY	3 LBS	10 LBS	885 SY



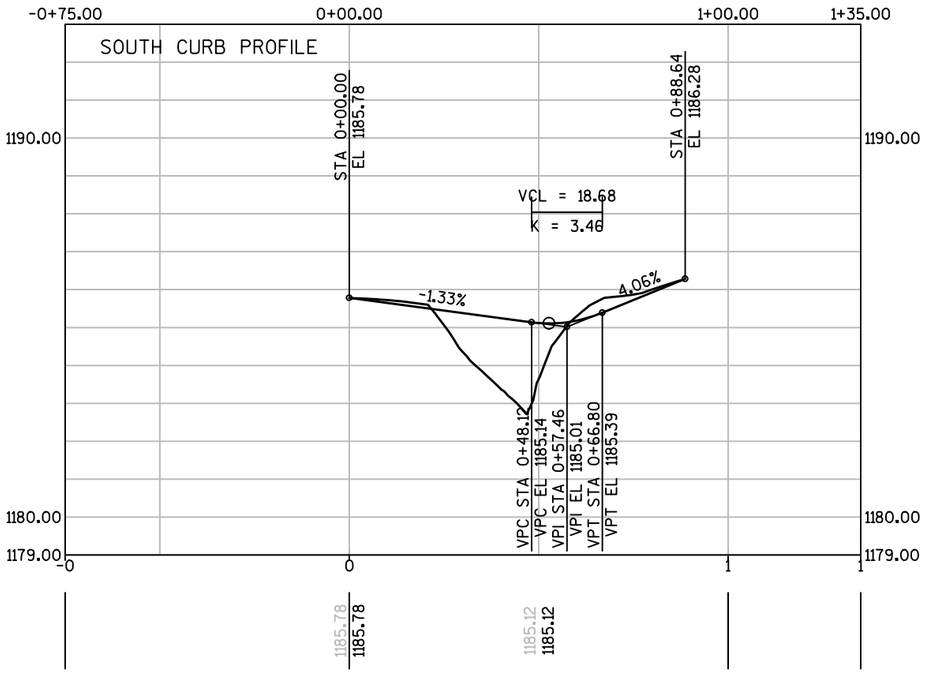


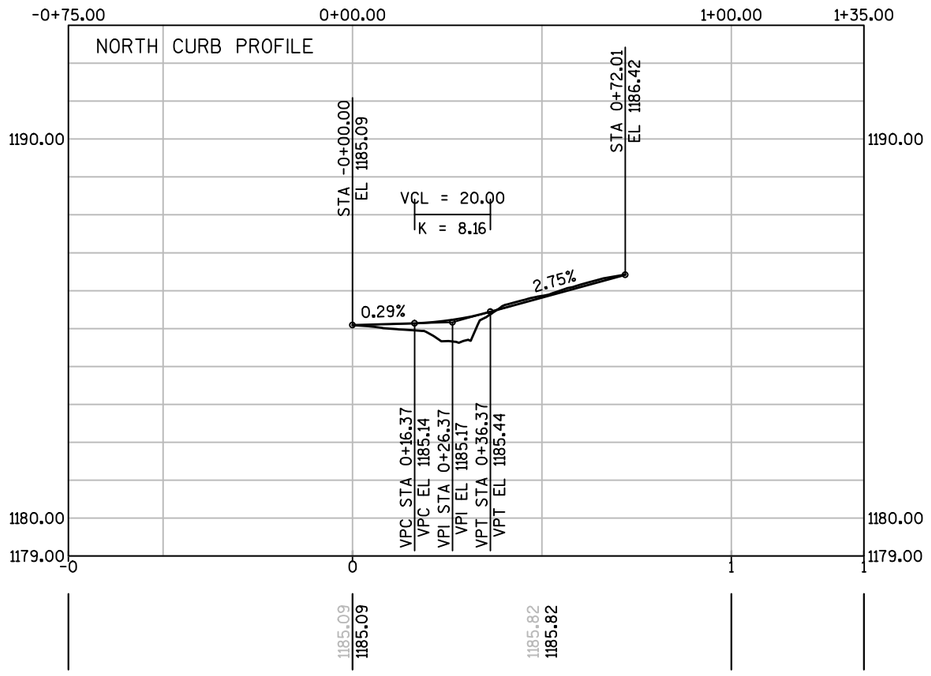
FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR-NURSE-VT-RADII.DWG
LAYOUT NAME - ****
PLOT DATE : 2/3/2015 1:02 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 44



NURSERY ROAD QUANTITY ESTIMATE			
COMMON EX	SEED MIX 20	FERTILIZER B	MULCH
50 CY	2 LBS	10 LBS	475 SY

CURB RADIUS PROFILES MUST BE FIELD VERIFIED AND ADJUSTED AS NEEDED.





PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CONSTRUCTION DETAILS - VERMONT AVE EAST	SHEET 79	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR-NURSE-VT-RADII.DWG
LAYOUT NAME - ****
PLOT DATE : 2/3/2015 1:03 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 44

DATE 12MAY15 E S T I M A T E O F Q U A N T I T I E S

LINE 1560-30-71

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	201.0105	Clearing	STA	4.000	4.000
0020	201.0205	Grubbing	STA	4.000	4.000
0030	204.0115	Removing Asphaltic Surface Butt Joints	SY	667.000	667.000
0040	204.0120	Removing Asphaltic Surface Milling	SY	250,389.000	250,389.000
0050	204.0150	Removing Curb & Gutter	LF	1,543.000	1,543.000
0060	204.0165	Removing Guardrail	LF	1,811.000	1,811.000
0070	204.0220	Removing Inlets	EACH	1.000	1.000
0080	204.0270	Abandoning Culvert Pipes	EACH	1.000	1.000
0090	205.0100	Excavation Common	CY	201.000	201.000
0100	205.9015.S	Grading Shaping and Finishing Intersection (location) 01. CTH M South	LS	1.000	1.000
0110	205.9015.S	Grading Shaping and Finishing Intersection (location) 02. Legion Lane	LS	1.000	1.000
0120	205.9015.S	Grading Shaping and Finishing Intersection (location) 03. Larson Road	LS	1.000	1.000
0130	205.9015.S	Grading Shaping and Finishing Intersection (location) 04. Hamilton Road	LS	1.000	1.000
0140	205.9015.S	Grading Shaping and Finishing Intersection (location) 05. CTH F	LS	1.000	1.000
0150	205.9015.S	Grading Shaping and Finishing Intersection (location) 06. CTH E	LS	1.000	1.000
0160	205.9015.S	Grading Shaping and Finishing Intersection (location) 07. Stinnet Landing	LS	1.000	1.000
0170	205.9015.S	Grading Shaping and Finishing Intersection (location) 08. River Road	LS	1.000	1.000
0180	205.9015.S	Grading Shaping and Finishing Intersection (location) 09. River Road Alley	LS	1.000	1.000
0190	205.9015.S	Grading Shaping and Finishing Intersection (location) 10. Boys Camp Road	LS	1.000	1.000
0200	205.9015.S	Grading Shaping and Finishing Intersection (location) 11. LP Entrance	LS	1.000	1.000
0210	205.9015.S	Grading Shaping and Finishing Intersection (location) 12. Timberlawn Road	LS	1.000	1.000
0220	205.9015.S	Grading Shaping and Finishing Intersection (location) 13. Ogren Road	LS	1.000	1.000
0230	205.9015.S	Grading Shaping and Finishing Intersection (location) 14. Stress Road (Rt)	LS	1.000	1.000
0240	205.9015.S	Grading Shaping and Finishing Intersection (location) 15. Nursery Road	LS	1.000	1.000
0250	205.9015.S	Grading Shaping and Finishing Intersection (location) 16. Vermont Avenue)Rt)	LS	1.000	1.000
0260	208.1100	Select Borrow	CY	1,944.000	1,944.000
0270	213.0100	Finishing Roadway (project) 01. 1560-30-71	EACH	1.000	1.000
0280	214.0100	Obliterating Old Road	STA	11.000	11.000
0290	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,741.000	2,741.000
0300	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,299.000	2,299.000
0310	305.0500	Shaping Shoulders	STA	676.000	676.000
0320	440.4410.S	Incentive IRI Ride	DOL	57,122.000	57,122.000
0330	455.0605	Tack Coat	GAL	13,900.000	13,900.000
0340	460.2000	Incentive Density HMA Pavement	DOL	30,460.000	30,460.000

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DATE 12MAY15 E S T I M A T E O F Q U A N T I T I E S

LINE 1560-30-71

NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0350	460.4000	HMA Cold Weather Paving	TON	11,976.000	11,976.000
0360	465.0110	Asphaltic Surface Patching	TON	262.000	262.000
0370	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	250.000	250.000
0380	465.0315	Asphaltic Flumes	SY	10.000	10.000
0390	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	11,854.000	11,854.000
0400	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	58,770.000	58,770.000
0410	520.8000	Concrete Collars for Pipe	EACH	1.000	1.000
0420	521.0118	Culvert Pipe Corrugated Steel 18-Inch	LF	106.000	106.000
0430	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	7.000	7.000
0440	522.0136	Culvert Pipe Reinforced Concrete Class III 36-Inch	LF	300.000	300.000
0450	522.0324	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	266.000	266.000
0460	522.0348	Culvert Pipe Reinforced Concrete Class IV 48-Inch	LF	176.000	176.000
0470	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	10.000	10.000
0480	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	6.000	6.000
0490	522.1048	Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	EACH	4.000	4.000
0500	523.0414	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 14x23-Inch	LF	62.000	62.000
0510	523.0514	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 14x23-Inch	EACH	2.000	2.000
0520	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	121.000	121.000
0530	601.0415	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type J	LF	1,490.000	1,490.000
0540	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	1,733.000	1,733.000
0550	606.0200	Riprap Medium	CY	17.000	17.000
0560	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	5.000	5.000
0570	611.0630	Inlet Covers Type HM-GJ	EACH	1.000	1.000
0580	611.1230	Catch Basins 2x3-FT	EACH	1.000	1.000
0590	614.0010	Barrier System Grading Shaping Finishing	EACH	12.000	12.000
0600	614.0200	Steel Thrie Beam Structure Approach	LF	42.000	42.000
0610	614.0305	Steel Plate Beam Guard Class A	LF	756.000	756.000
0620	614.0345	Steel Plate Beam Guard Short Radius	LF	86.000	86.000
0630	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	2.000	2.000
0640	614.0390	Steel Plate Beam Guard Short Radius Terminal	EACH	4.000	4.000
0650	614.2300	MGS Guardrail 3	LF	1,047.000	1,047.000
0660	614.2330	MGS Guardrail 3 K	LF	535.000	535.000
0670	614.2500	MGS Thrie Beam Transition	LF	240.000	240.000
0680	614.2610	MGS Guardrail Terminal EAT	EACH	8.000	8.000
0690	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1560-30-71	EACH	1.000	1.000
0700	619.1000	Mobilization 01. 1560-30-71	EACH	1.000	1.000

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DATE 12MAY15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1560-30-71 QUANTITY
0710	624.0100	Water	MGAL	35.000	35.000
0720	625.0105	Topsoil	CY	183.000	183.000
0730	625.0500	Salvaged Topsoil	SY	3,802.000	3,802.000
0740	627.0200	Mulching	SY	4,250.000	4,250.000
0750	628.1104	Erosion Bales	EACH	5.000	5.000
0760	628.1504	Silt Fence	LF	1,050.000	1,050.000
0770	628.1520	Silt Fence Maintenance	LF	525.000	525.000
0780	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0790	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0800	628.2004	Erosion Mat Class I Type B	SY	1,990.000	1,990.000
0810	628.7015	Inlet Protection Type C	EACH	1.000	1.000
0820	628.7570	Rock Bags	EACH	3.000	3.000
0830	629.0210	Fertilizer Type B	CWT	1.680	1.680
0840	630.0120	Seeding Mixture No. 20	LB	59.000	59.000
0850	630.0200	Seeding Temporary	LB	52.000	52.000
0860	633.5200	Markers Culvert End	EACH	33.000	33.000
0870	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	269.000	269.000
0880	637.2210	Signs Type II Reflective H	SF	1,033.790	1,033.790
0890	637.2230	Signs Type II Reflective F	SF	571.410	571.410
0900	638.2102	Moving Signs Type II	EACH	4.000	4.000
0910	638.2602	Removing Signs Type II	EACH	249.000	249.000
0920	638.3000	Removing Small Sign Supports	EACH	264.000	264.000
0930	642.5201	Field Office Type C	EACH	1.000	1.000
0940	643.0200	Traffic Control Surveillance and Maintenance (project) 01.1560-30-71	DAY	30.000	30.000
0950	643.0300	Traffic Control Drums	DAY	390.000	390.000
0960	643.0705	Traffic Control Warning Lights Type A	DAY	25.000	25.000
0970	643.0715	Traffic Control Warning Lights Type C	DAY	51.000	51.000
0980	643.0900	Traffic Control Signs	DAY	1,240.000	1,240.000
0990	643.1050	Traffic Control Signs PCMS	DAY	30.000	30.000
1000	645.0130	Geotextile Fabric Type R	SY	38.000	38.000
1010	646.0106	Pavement Marking Epoxy 4-Inch	LF	134,467.000	134,467.000
1020	646.0126	Pavement Marking Epoxy 8-Inch	LF	2,250.000	2,250.000
1030	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	210,648.000	210,648.000
1040	647.0256	Pavement Marking Symbols Epoxy	EACH	2.000	2.000
1050	647.0356	Pavement Marking Words Epoxy	EACH	2.000	2.000
1060	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	825.000	825.000
1070	647.0796	Pavement Marking Crosswalk Epoxy 24-Inch	LF	192.000	192.000
1080	648.0100	Locating No-Passing Zones	MI	13.000	13.000
1090	649.0200	Temporary Pavement Marking Reflective Paint 4-Inch	LF	200,858.000	200,858.000
1100	650.4000	Construction Staking Storm Sewer	EACH	1.000	1.000
1110	650.4500	Construction Staking Subgrade	LF	350.000	350.000
1120	650.5000	Construction Staking Base	LF	350.000	350.000
1130	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	3,264.000	3,264.000
1140	650.6000	Construction Staking Pipe Culverts	EACH	14.000	14.000
1150	650.8000	Construction Staking Resurfacing Reference	LF	67,628.000	67,628.000
1160	650.9910	Construction Staking Supplemental Control (project) 01. 1560-30-71	LS	1.000	1.000
1170	650.9920	Construction Staking Slope Stakes	LF	1,200.000	1,200.000
1180	690.0150	Sawing Asphalt	LF	1,367.000	1,367.000
1190	ASP.1T0A	On-the-Job Training Apprentice at $5. 00/HR	HRS	990.000	990.000

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DATE 12MAY15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1560-30-71 QUANTITY
1200	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,400.000	2,400.000
1210	SPV.0090	Special 01. Concrete Curb And Gutter Cure And Seal Treatment	LF	3,344.000	3,344.000
1220	SPV.0090	Special 02. Reheating HMA Longitudinal Joints Special	LF	82,528.000	82,528.000
1230	SPV.0105	Special 02. Material Transfer Vehicle	LS	1.000	1.000
1240	SPV.0105	Special 03. Preparation of Foundation For Asphaltic Paving Special	LS	1.000	1.000
1250	SPV.0195	Special 01. HMA Pavement Type E-3 Special	TON	24,124.000	24,124.000
1260	SPV.0195	Special 02. HMA Pavement Type E-10 Special	TON	25,779.000	25,779.000
1270	SPV.0195	Special 03. Asphaltic Surface Special	TON	3,423.000	3,423.000

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MISCELLANEOUS QUANTITIES

CLEARING AND GRUBBING SUMMARY

CAT	STATION	TO	STATION	LOC	201.0105 CLEARING STA	201.0205 GRUBBING STA	REMARKS
0010	202+00	-	203+00	RT	1	1	CTH M
0010	369+00	-	371+00	LT	2	2	CTH F
0010	573+00	-	547+00	RT	1	1	CTH E
			TOTAL 0010		4	4	

REMOVING CURB & GUTTER

CAT	STATION	TO	STATION	LOC	204.0150 LF	REMARKS
0010	204+00	-	217+50	LT	1350	SPRINGBROOK
0010	470+50			LT	62	CTH M
0010	471+00			LT	91	CTH M
	874+60	-	875+00	LT	40	DRIVEWAY
			TOTAL 0010		1543	

REMOVING ASPHALTIC SURFACE MILLING

CAT	STATION	TO	STATION	204.0120 SY	REMARKS
0010	199+80	-	876+08	243252	MAINLINE
0010	199+80	-	876+08	7137	SIDE ROADS
			TOTAL 0010	250389	

REMOVING ASPHALTIC SURFACE BUTT JOINTS

CAT	STATION	TO	STATION	LOC	204.0115 SY	REMARKS
0010	199+79	-	200+04			MAINLINE
0010	203+75			LT	33	TREPANIA
0010	203+75			RT	33	CTH M
0010	208+00			LT	44	LUMBARD
0010	217+25			RT	17	ANDREWS
0010	218+25			LT	22	LEGION
0010	240+50			RT	22	LARSON
0010	442+50			RT	22	BRICKMAN
0010	471+00			LT	27	CTH M
0010	533+75			LT	24	L. HAYWARD
0010	553+00			LT	27	HAYWARD
0010	576+20			RT	24	CTH E
0010	583+25			RT	24	STINNETT
0010	654+50			RT	24	RIVER
0010	683+50			RT	22	RIVER ALLEY
0010	707+50			RT	33	KRUGER
0010	736+50			RT	33	N. BOYS CAMP
0010	760+00			RT	38	LP ENTRANCE
0010	772+25			RT	31	TIMBERLAWN
0010	800+25			RT	20	OGREN
0010	809+75			RT	31	STRESS
0010	825+75			LT	31	GREENWOOD
0010	861+50			RT	29	NURSERY
0010	872+35			RT	56	VERMONT
			TOTAL 0010		667	

REMOVING GUARDRAIL

CAT	STATION	LOC	204.0165 LF	REMARKS
0010	PROJECT		1811	
	TOTAL 0010		1811	

EXCAVATION COMMON

CAT	STATION	TO	STATION	LOC	205.0100 CY	REMARKS
0010	678+60	-	679+70	RT	156	EBS AREA
0010	742+50	-	748+00	RT	22	FILL 742
0010	829+00	-	832+00	LT&RT	23	FILL 830
			TOTAL 0010		201	

SELECT BORROW

CAT	STATION	TO	STATION	LOC	208.1100 CY	REMARKS
0010	678+60	-	679+70	RT	78	EBS AREA
0010	742+50	-	748+00	RT	596	FILL 742
0010	829+00	-	832+00	LT&RT	1270	FILL 830
			TOTAL 0010		1944	

MISCELLANEOUS QUANTITIES

GRADING, SHAPING AND FINISHING INTERSECTION VARIOUS LOCATIONS (FOR INFORMATION ONLY)

CAT	STATION	LOC	205.9015.S LS	COMMON EXCAVATION CY	SELECT BORROW CY	SALVAGED TOPSOIL SY	SEED MIX NO. 20 LBS	FERTILIZER TYPE B CWT	MULCH SY	REMARKS
0010	201+00	CTH M	1	250	334	814	22	0.50	814	205.9015.S.01
0010	218+00	LEGION LANE	1	178	4	225	6	0.15	227	205.9015.S.02
0010	240+75	LARSON ROAD	1	27	25	132	3	0.10	132	205.9015.S.03
0010	259+00	HAMILTON ROAD	1	1100	22	772	22	0.50	772	205.9015.S.04
0010	370+00	CTH F	1	1140	185	1583	43	1.00	1583	205.9015.S.05
0010	576+00	CTH E	1	406	275	863	50	0.50	863	205.9015.S.06
0010	583+00	STINNETT LANDING	1	69	68	306	9	0.20	306	205.9015.S.07
0010	654+00	RIVER ROAD	1	77	0	235	7	0.15	235	205.9015.S.08
0010	683+50	RIVER ROAD ALLEY	1	63	0	111	3	0.10	111	205.9015.S.09
0010	735+50	BOYS CAMP RD	1	115	118	238	7	0.15	238	205.9015.S.10
0010	760+00	LP ENTRANCE	1	288	6	329	10	0.20	329	205.9015.S.11
0010	772+00	TIMBERLAWN	1	206	0	310	9	0.15	310	205.9015.S.12
0010	800+00	OGREN	1	98	9	191	6	0.10	191	205.9015.S.13
0010	809+50	STRESS RIGHT	1	78	0	138	2	0.10	138	205.9015.S.14
0010	861+50	NURSERY ROAD	1	242	20	509	14	0.30	509	205.9015.S.15
0010	872+00	VERMONT AVE	1	108	33	382	10	0.20	382	205.9015.S.16
TOTAL 0010			16	4445	1099	7138	223	4.4	7140	

OBLITERATING OLD ROAD

CAT	STATION	TO	STATION	LOC	214.0100 STA	REMARKS
0010	219+80	-	219+90	LT	1	OBSOLETE DRIVE
0010	270+00	-	271+00	RT	1	OBSOLETE DRIVE
0010	278+00	-	279+00	RT	1	OBSOLETE DRIVE
0010	280+00	-	281+00	RT	1	OBSOLETE DRIVE
0010	334+00	-	335+00	RT	1	OBSOLETE DRIVE
0010	343+00	-	344+00	RT	1	OBSOLETE DRIVE
0010	358+00	-	359+00	RT	1	OBSOLETE DRIVE
0010	451+00	-	452+00	RT	1	OBSOLETE DRIVE
0010	453+00	-	454+00	RT	1	OBSOLETE DRIVE
0010	454+00	-	455+00	RT	1	OBSOLETE DRIVE
0010	480+00	-	481+00	RT	1	OBSOLETE DRIVE
TOTAL 0010					11	

BASE AGGREGATE SUMMARY

CAT	STATION	TO	STATION	LOC	305.0110 BASE AGG DENSE 3/4-INCH TON	305.0120 BASE AGG DENSE 1 1/4-INCH TON	REMARKS
0010	199+45	-	257+12	L&R	311		PROJECT
0010	257+12	-	595+35	L&R	1096		PROJECT
0010	595+35	-	810+00	LT	580		PROJECT
0010	595+35	-	760+00	RT	445		PROJECT
0010	760+00	-	830+00	RT	113		PROJECT
0010	199+45	-	203+35	RT	5	192	CTH M TURN
0010	202+35	-		LT		24	PIPE PATCH
0010	213+00	-		LT		5	INLET PATCH
0010	218+50	-	219+00	LT	5	158	LEGION
0010	250+00	-	252+00	LT	10		BRDG EAT
0010	250+00	-	252+00	RT	10		BRDG EAT
0010	257+00	-	258+00	LT	10		BRDG EAT
0010	258+00	-	260+00	RT	10		BRDG EAT
0010	258+50	-	259+50	LT	15	370	HAMILTON RD
0010	368+00	-	372+00	LT		484	CTH F INT.
0010	430+27			L&R		20	PIPE PATCH
0010	442+00	-	443+00	RT	14		BRICKMAN
0010	446+00	-	447+50	LT	11		EAT
0010	449+00	-	451+00	RT	8		EAT
0010	470+00	-	472+00	LT	9		CTH M SHLDR
0010	490+27	-	496+00	L&R	30		RR EAT & SHLDR
0010	492+03			L&R		27	PIPE PATCH
0010	507+21			L&R		23	PIPE PATCH
0010	534+00			LT		53	LITLE HAYWARD
0010	549+48			L&R		14	PIPE PATCH
0010	553+00			LT		46	HAYWARD
0010	573+00	-	575+50	RT		194	CTH E TURN
0010	583+00			RT		59	STINNETT
0010	654+50			RT	5	72	RIVER RD
0010	655+09			L&R		24	PIPE PATCH
0010	678+60		679+70	RT		120	EBS AREA
0010	683+50			RT	5	35	RIVER ALLEY
0010	702+00	-	708+00	RT	5		KRUGER
0010	735+50			RT	5	38	BOYS CAMP
0010	760+00			RT	5	92	LP PLANT
0010	772+25			RT	6	21	TIMBERLAWN
0010	785+00	-	791+00	LT	15		BMGRD STRESS
0010	800+25			RT	5	36	OGREN
0010	809+50			LT	5	25	STRESS WEST
0010	809+50			RT	3		STRESS EAST
0010	860+50			RT		88	NURSERY
0010	870+50			L&R		48	PIPE PATCH
0010	872+25			RT		31	VERMONT
TOTAL 0010					2741	2299	

MISCELLANEOUS QUANTITIES

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SHAPING SHOULDERS

CAT	STATION	TO	STATION	LOC	305.0500 STA	REMARKS
0010	199+79	-	876+08	LT	676	PROJECT
TOTAL 0010					676	

HMA SUMMARY #1

CAT	STATION	TO	STATION	LOC	465.0120 ASPHALTIC SURF. DRIVE AND FIELD ENT. TON	465.0315 ASPHALATIC FLUMES SY	465.0425 SHOULDER RUMBLE STRIP LF	465.0475 CENTER RUMBLE STRIP LF	REMARKS
0010	227+30	-	815+00					58770	
0010	527+12	-	595+36				11854		
0010	492+80			RT&LT		10			RR UNDERPASS
0010	PROJECT				250				DRIVEWAYS
TOTAL 0010					250	10	11854	58770	

HMA PAVEMENT SUMMARY #1

CAT	STATION	TO	STATION	LOC	455.0605 TACK COAT GAL	460.4000 HMA COLD WEATHER PAVING TON	465.0110 ASPHALTIC SURFACE PATCHING TON	SPV.0195.01 HMA TYPE E-3 SPECIAL TON	SPV.0195.02 HMA TYPE E-10 SPECIAL TON	SPV.0195.03 ASPHALTIC SURFACE SPECIAL TON	REMARKS
0010	202+39	-	870+50	L & R			169				PIPE PATCHES
0010	199+79.5	-	868+08.0		8912	8148		15128	17464		MAINLINE
0010	868+08.0	-	876+08.0		108	52		0	209		MAINLINE
0010	199+80.0	-	203+28.0		20	17		31	37		TURN LANE M S
0010	303+45.0	-	310+45.0		24	21		39	46		TAPER OUT
0010	310+45.0	-	350+32.0		266	242		447	521		PASS LANE
0010	350+32.0	-	352+32.0		8	6		11	13		TAPER IN
0010	377+45.0	-	379+45.0		8	6		11	13		TAPER IN
0010	379+45.0	-	418+45.0		260	237		437	510		PASS LANE
0010	418+45.0	-	425+45.0		24	21		39	46		TAPER OUT
0010	725+82.0	-	732+00.0		22	19		35	40		TAPER OUT
0010	732+00.0	-	782+30.0		336	305		563	657		PASS LANE
0010	782+30.0	-	784+30.0		8	6		11	13		TAPER IN
0010	370+57.0	-	373+75.0		18	16		29	34		TURN LANE F
0010	467+38.0	-	474+88.0		42	38		70	81		BLOWBY M
0010	471+50.0	-	476+17.0		30	27		49	57		TURN M N
0010	572+70.0	-	575+58.0		14	13		23	27		TURN E
0010	678+60.0		679+70.0				93				EBS AREA
0010	701+87.0	-	706+83.0		30	26		47	55		TURN KRUGER
0010	703+29.0	-	711+21.0		46	40		74	87		BLOWBY KRUGER
0010	755+50.0	-	759+35.0		22	19		35	41		TURN LP
0010	822+82.0	-	828+94.0		34	29		54	63		BLOWBY GREENWD
0010	826+51.0	-	829+37.0		10	9		16	18		TURN GREENWD
0010	857+93.0	-	860+81.0		10	9		16	19		TURN NURSE
0010	869+84.0	-	871+60.0		12	6		10	12		TURN VERMONT
0010	SHOULDERS				2894	2666		4949	5716		
0010	SIDEROADS & TURN LANES				742					3158	
0010	WEDGING AND LEVELING							2000		265	
0010	PREP. OF FOUNDATION						75				
TOTAL 0010					13900	11976	262	24124	25779	3423	

CONCRETE CURB AND GUTTER SUMMARY

CAT	STATION	TO	STATION	LOC	601.0411 30-INCH TYPE D LF	601.0415 6-INCH SLOPED 30-INCH TYPE J LF	601.0557 6-INCH SLOPED 36-INCH TYPE D LF	SPV.0090.01 CONCRETE C&G CURE AND SEAL TREATMENT LF	REMARKS
0010	204+00	-	218+25	LT		1490		1490	SPRINGBROOK
0010	203+00	-	204+50	RT			135	135	CTH M SOUTH
0010	240+00	-	241+00	RT			134	134	LARSON RD
0010	258+00	-	260+00	LT			137	137	HAMILTON
0010	369+00	-	371+00	LT			164	164	CTH F
0010	470+00	-	472+00	LT			140	140	CTH M NORTH
0010	575+50	-	577+00	RT			144	144	CTH E
0010	582+50	-	584+00	RT			150	150	STINNETT RD
0010	653+50	-	655+00	RT			152	152	RIVER RD
0010	683+00	-	684+00	RT			111	111	RIVER ALLEY
0010	759+50	-	760+50	RT			157	157	L.P. PLANT
0010	860+50	-	862+50	RT			151	151	NURSERY RD
0010	871+50	-	872+00	RT			158	158	VERMONT RT
0010	872+87		873+70	LT	80			80	VERMONT LT
0010	874+75	-	875+05	LT	41			41	DRIVE CURB
TOTAL 0010					121	1490	1733	3344	

MISCELLANEOUS QUANTITIES

CULVERT PIPE SUMMARY #1

					CULVERT PIPE											
					521.0118	521.1018	522.0136	522.0324	522.0348	522.1024	522.1036	522.1048	523.0414	523.0514		
					CORRUGATED	AEW	REINFORCED	REINFORCED	REINFORCED				CONCRETE			
					STEEL	STEEL	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE	HORZ. ELIPT.	AEW		
							CL III	CL IV	CL IV	AEW	AEW	AEW	HE-IV	HORZ. ELIPT.	JOINT	
	MIN. STEEL THICKNESS				0.064"											
					18-INCH	18-INCH	36-INCH	24-INCH	48-INCH	24-INCH	36-INCH	48-INCH	14X23-INCH	14X23-INCH	TIES	
CAT	STATION	TO	STATION	LOC	LF	EACH	LF	LF	LF	EACH	EACH	EACH	LF	EACH	EACH	REMARKS
0010	202+38.5	-	202+46.5	LT&RT			232				4				16	NEW PIPE
0010	218+80.7			LT	6	1										NEW PIPE
0010	430+27.0			LT&RT				42		2					8	NEW PIPE
0010	492+04.0			LT&RT									62	2	8	NEW PIPE
0010	507+21.5		507+27.5	LT&RT				124		4					16	NEW PIPE
0010	549+48.3			LT&RT			68				2				8	NEW PIPE
0010	655+09.1	-	655+15.1	LT&RT				100		4					16	NEW PIPE
0010	736+00.0			RT	9	1										PIPE EXT.
0010	737+00.0			RT	4	1										PIPE EXT.
0010	791+35.0			LT	64	2										NEW PIPE
0010	870+09.6	-	870+23.1	LT&RT					176			4			16	NEW PIPE
0010	872+00.0			RT	15	1										PIPE EXT.
0010	872+60.0			RT	8	1										PIPE EXT.
TOTAL 0010					106	7	300	266	176	10	6	4	62	2	88	

PIPE AND SS SUMMARY #2

			204.0220	204.0270	520.8000	608.0415	611.0630	611.1230	633.5200	
			REMOVING	ABANDON	CONCRETE	STORM SEWER	INLET	CATCH	MARKERS	
			INLETS	CULVERT	COLLARS	PIPE REINF.	COVER	BASIN	CULVERT	
				PIPES	FOR	CONCRETE CL IV	TYPE		END	
					PIPE	15-INCH	HM-GJ	2X3-FT		
CAT	STATION	LOC	EACH	EACH	EACH	LF	EACH	EACH	EACH	REMARKS
0010	212+86.4	LT	1		1	5	1	1	1	INLET SPRINGBROOK
0010	230+77.0	LT-RT		1						CROSS PIPE
0010	CULVERT PIPES								32	ALL PIPES
TOTAL 0010			1	1	1	5	1	1	33	

RIPRAP MEDIUM

			606.0200	
CAT	STATION	LOC	CY	REM
0010	870+00	RT	17	
TOTAL 0010			17	

MISCELLANEOUS QUANTITIES

BEAMGUARD SUMMARY

CAT	STATION	TO	STATION	LOC	614.0010 BARRIER GRADING SHAPEING FINISHING EACH	614.0200 STEEL THRIE BEAM STRUCTURE APPROACH LF	614.2330 MIDWEST GUARDRAIL 3 TYPE K LF	614.0305 BEAMGUARD CLASS A LF	614.0345 SHORT RADIUS CLASS A LF	614.0370 ENERGY ABSORBING TERMINAL CLASS A EACH	614.0390 SHORT RADIUS TERMINAL CLASS A EACH	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	REMARKS
0010	250+76	-	252+50	RT	1							81	40	1	ANCHOR SE COR BRIDGE
0010	251+00	-	252+26	LT	1							33	40	1	ANCHOR SW COR BRIDGE
0010	253+35	-	257+75	LT	1							347	40	1	ANCHOR NW COR BRIDGE
0010	253+58	-	259+28	RT	1							477	40	1	ANCHOR NE COR BRIDGE
0010	443+40	-	449+75	RT	1		535							2	
0010	443+93	-	446+45	LT	1			183	17	1	1				RADIUS = 16'
0010	491+07	-	492+80	RT	1							77	40	1	ANCHOR SW COR RR OVERPASS
0010	491+27	-	492+52	LT	1							32	40	1	ANCHOR NW COR RR OVERPASS
0010	492+76	-	493+75	LT	1	21		67	31		1				RADIUS = 16'
0010	493+01	-	493+66	RT	1	21		28	16		1				RADIUS = 16'
0010	785+75	-	78625	LT	1			478	22		1				EAT
0010	79088	-	79103	LT	1					1					RADIUS = 16'
TOTAL 0010					12	42	535	756	86	2	4	1047	240	8	

BARRIER SYSTEM GRADING SHAPING FINISHING (INFORMATION ONLY)

CAT	STATION	LOC	COMMON EXCAVATION CY	SELECT BORROW CY	SALVAGED TOPSOIL SY	SEED MIX NO.20 LB	FERTILIZER TYPE B CWT	MULCH SY	REMARKS
0010	249+71	RT	0	1	10	2	0.05	10	NAMAKAGON RIVER
0010	251+00	LT	0	3	20	2	0.05	20	BRIDGE
0010	257+75	LT	1	2	10	2	0.05	10	"
0010	259+28	RT	0	6	13	2	0.05	13	"
0010	443+40	RT	0	1	35	2	0.05	35	BRICKMAN LK
0010	443+60	LT	0	8	49	2	0.05	49	ROAD
0010	446+45	LT	0	2	37	2	0.05	37	"
0010	449+75	RT	0	13	57	2	0.05	57	"
0010	491+07	RT	6	4	27	2	0.05	27	RR UNDERPASS
0010	491+27	LT	0	0	27	2	0.05	27	"
0010	785+75	LT	0	26	50	1	0.05	50	FIDDLERS CREEK
0010	791+00	LT	0	12	20	1	0.05	20	"
TOTAL 0010			7	78	355	22	1	355	

MISCELLANEOUS QUANTITIES

MAINTENANCE AND REPAIR OF HAUL ROADS 1560-30-71

CAT	STATION	LOC	618.0100 EACH	REMARKS
0010	PROJECT		1	
TOTAL 0010			1	

WATER

CAT	STATION	LOC	624.0100 MGAL	REMARKS
0010	PROJECT		35	
TOTAL 0010			35	

EROSION SUMMARY #1

CAT	STATION	TO	STATION	LOC	625.0105 TOPSOIL CY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINT. LF	628.1905 MOBILIZ. EACH	628.1910 EMERGENCY MOBILIZ. EACH	REMARKS
0010	200+50	-	203+00	RT					200	100			CTH M LANE
0010	202+50	-	203+00	LT		60	60						PIPE ENDS
0010	204+00	-	208+00	LT	52		468						RECLAIMED AREA BEHIND CURB
0010	209+00		218+00	LT		200	200						SPRINGBROOK CURB
0010	217+75	-	218+00	LT	24								OLD ROAD CORE LEGION
0010	219+80	-	219+90	LT		20							OBSOLETE DRIVE
0010	368+00	-	373+00	LT	86								CTH F AND TRANUS
0010		-	492+00	LT-RT		32	32						PIPE ENDS
0010		-	507+21	LT-RT		70	70		150	75			PIPE ENDS
0010		-	549+60	LT-RT		185	185		150	75			PIPE ENDS
0010	707+00		708+00	RT		150	150						KRUGER ROAD
0010	742+00	-	748+00	RT		1189	1189						SHOULDER FILL
0010	788+50	-	791+20	LT					150	75			BEAMGUARD SHOULDER FILL
0010	829+50	-	833+00	LT-RT		1796	1796		200	100			SHOULDER FILL
0010			870+00	LT-RT		100	100		200	100			PIPE ENDS
0010		UNDISTRIBUTED			20			5			3	1	PROJECT
TOTAL 0010					183	3802	4250	5	1050	525	3	1	

MISCELLANEOUS QUANTITIES

3

EROSION SUMMARY #2

CAT	STATION	TO	STATION	LOC	628.2004 EROSION MAT CLASS 1 TYPE B SY	628.7015 INLET PROTECTION TYPE C EACH	628.7570 ROCK BAGS EACH	629.0210 FERTILIZER TYPE B CWT	630.0120 SEED MIX NO. 20 LB	630.0200 SEED TEMP. LB	REMARKS
0010	200+50	-	203+00	RT	146						
0010	202+50	-	203+00	LT				0.03	2	2	PIPE ENDS
0010	204+00	-	208+00	LT				0.30	2	2	RECLAIMED AREA BEHIND CURB
0010			212+86	LT		1					SPRINGBROOK INLET
0010	209+00	-	218+00	LT				0.20	2	2	BEHIND NEW CURB
0010	219+80	-	219+90	LT				0.05	2	2	OBSOLETE DRIVE
0010	270+00	-	271+00	RT				0.05	2	2	OBSOLETE DRIVE
0010	278+00	-	279+00	RT				0.05	2	2	OBSOLETE DRIVE
0010	280+00	-	281+00	RT				0.05	2	2	OBSOLETE DRIVE
0010	334+00	-	335+00	RT				0.05	2	2	OBSOLETE DRIVE
0010	343+00	-	344+00	RT				0.05	2	2	OBSOLETE DRIVE
0010	358+00	-	359+00	RT				0.05	2	2	OBSOLETE DRIVE
0010			430+27	LT-RT				0.01	1	1	PIPE ENDS
0010			444+00	LT	27						BRICKMAN SHORT RAD TERMINAL
0010	451+00	-	452+00	RT				0.05	2	2	OBSOLETE DRIVE
0010	453+00	-	454+00	RT				0.05	2	2	OBSOLETE DRIVE
0010	454+00	-	455+00	RT				0.05	2	2	OBSOLETE DRIVE
0010	480+00	-	481+00	RT				0.05	2	2	OBSOLETE DRIVE
0010			492+00	LT-RT				0.01	1	1	PIPE ENDS
0010			507+00	LT-RT				0.01	1	1	PIPE ENDS
0010			549+60	LT-RT				0.02	2	1	PIPE ENDS
0010	707+00		708+00	RT				0.02	2	2	KRUGER ROAD
0010	742+00	-	748+00	RT	649			0.08	4	2	SHOULDER FILL
0010	829+50	-	833+00	LT-RT	1168			0.14	6	3	SHOULDER FILL
0010			870+00	LT-RT				0.03	2	1	PIPE ENDS
0010			UNDISTRIBUTED				3	0.28	12	12	PROJECT
			TOTAL 0010		1990	1	3	1.68	59	52	

MISCELLANEOUS QUANTITIES

SIGNS TYPE II

				634.0616 WOOD POSTS 4X6-INCH				637.2210 SIGNS REFLECT H	637.2230 SIGNS REFLECT F	
CAT	NO.	STATION	LOC	EACH	CODE	SIZE	MESSAGE	SF	SF	REMARKS
0010	241	197+50	RT	1	W10-3	36"X36"	RR CROSSING ON SIDE ROAD	9.00		
0010	1	199+90	RT	1	R2-1	24"X30"	SPEED LIMIT 45	5.00		
0010	1A	199+90	LT	1	R2-1	24"X30"	SPEED LIMIT 45	5.00		
0010	2	203+32	RT	1	J12-1	24"X45"	COUNTY M (RIGHT ARROW)	7.50		IF QUANTITY STATIONING
0010	3	203+33	LT	1	R1-1	30"X30"	STOP	5.18		DOES NOT MATCH PLAN
0010	4	204+48	RT	1	R1-1	30"X30"	STOP	5.18		USE THE PLAN STATIONING
0010	5	206+20	RT	1	J1-1	24"X36"	NORTH 63	6.00		
0010	6	207+65	RT	1	R2-1	24"X30"	SPEED LIMIT 45	5.00		
0010	7	207+71	LT	1	R1-1	30"X30"	STOP	5.18		
0010	243	210+50	RT	1	W10-3	36"X36"	RR CROSSING ON SIDE ROAD	9.00		
0010	242	210+50	LT	1	W10-3	36"X36"	RR CROSSING ON SIDE ROAD	9.00		
0010	8	214+00	RT	1	R2-1	24"X30"	SPEED LIMIT 45	5.00		
0010	8A	214+00	LT	1	R2-1		SPEED LIMIT 45	5.00		
0010	9	215+95	RT	1	W1-2L	30"X30"	LEFT CURVE		6.25	
0010	10	217+87	LT	1	R1-1	30"X30"	STOP	5.18		
0010	11	220+00	LT	2	D7-56L	36"X48"	CANOE LANDING (LEFT ARROW)	12.00		SEE SIGN PLATES
0010	12	217+80	RT	1	R1-1	30"X30"	STOP	5.18		
0010	13	220+00	LT	0	D7-56R	36"X48"	CANOE LANDING (RIGHT ARROW)	12.00		SEE SIGN PLATES
0010	14	222+50	RT	2	D7-54	36"X48"	CANOE LANDING 1/2 MILE	12.00		SEE SIGN PLATES
0010	15	225+02	RT	1	S3-1	36"X36"	SCHOOL BUS STOP AHEAD		9.00	
0010	244	225+50	LT	1	W10-3	36"X36"	RR CROSSING ON SIDE ROAD	9.00		
0010	16	227+47	RT	1	R2-1	24"X30"	SPEED LIMIT 55	5.00		
0010	17	229+40	LT	2	12-3-U	78"X24"	SPRINGBROOK UNINCORPORATED	13.00		
0010	18	233+10	LT	1	W3-5	36"X36"	REDUCED SPEED LIMIT 45 AHEAD		9.00	
0010	19	233+58	RT	2	D1-1	72"X15"	LARSON RD (LEFT ARROW)	7.50		SEE SIGN PLATES
0010	20	239+98	RT	2	D7-56R	36"X48"	CANOE LANDING (RIGHT ARROW)	12.00		SEE SIGN PLATES
0010	20A	239+98	RT	0	D7-56L	36"X48"	CANOE LANDING (LEFT ARROW)	12.00		SEE SIGN PLATES
0010	21	245+77	LT	2	D1-1	72"X15"	LARSON RD (RIGHT ARROW)	7.50		SEE SIGN PLATES
0010	22	248+50	RT	2	D1-1	84"X15"	HAMILTON RD (LEFT ARROW)	8.75		SEE SIGN PLATES
0010	23	250+27	LT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		
0010	24	250+63	RT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		
0010	25	252+51	RT	1	W5-52R	12"X36"	CLEARANCE STRIPER DOWN RT		3.00	
0010	26	252+24	LT	1	W5-52L	12"X36"	CLEARANCE STRIPER DOWN LT		3.00	
0010	27	253+34	LT	1	W5-52R	12"X36"	CLEARANCE STRIPER DOWN RT		3.00	
0010	28	253+60	RT	1	W5-52L	12"X36"	CLEARANCE STRIPER DOWN LT		3.00	
0010	29	255+22	RT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		
0010	30	254+54	LT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		
0010	31	256+64	LT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		
0010	32	257+21	RT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		
0010	33	258+47	LT	1	R1-1	30"X30"	STOP	5.18		
0010	34	259+75	RT	1	W1-2R	30"X30"	RIGHT CURVE		6.25	
0010	35	260+20	RT	1	I55-56	30"X36"	ADOPT A HIGHWAY	7.50		
0010	36	262+15	LT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		
0010	37	262+20	RT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		
0010	38	269+02	LT	2	D1-1	84"X15"	HAMILTON RD (RIGHT ARROW)	8.75		SEE SIGN PLATES
		SUBTOTAL		51				248	43	

MISCELLANEOUS QUANTITIES

SIGNS TYPE II

				634.0616 WOOD POSTS 4X6-INCH				637.2210 SIGNS REFLECT H	637.2230 SIGNS REFLECT F	
CAT	NO.	STATION	LOC	EACH	CODE	SIZE	MESSAGE	SF	SF	REMARKS
0010	39	271+25	LT	2	D7-56L	36"X48"	CANOE LANDING (LEFT ARROW)	12.00		SEE SIGN PLATES
0010	40	273+16	LT	1	W1-2L	30"X30"	LEFT CURVE		6.25	
0010	41	275+43	RT	1	W14-3	48"X36"	NO PASSING ZONE		6.00	
0010	42	292+45	RT	1	W1-2L	30"X30"	LEFT CURVE		6.25	
0010	43	293+48	LT	1	W14-3	48"X36"	NO PASSING ZONE		6.00	
0010	44	302+67	LT	1	S3-1	36"X36"	SCHOOL BUS STOP AHEAD		9.00	
0010	45	303+28	RT	1	D5-61	48"X24"	WAYSIDE 1/2 MILE	8.00		
0010	46	312+07	LT	1	W1-2R	30"X30"	RIGHT CURVE		6.25	
0010	47	317+68	LT	1	W4-2R	36"X36"	LANE REDUCTION TRANSITION - RT		9.00	
0010	48	317+68	RT	1	W4-2R	36"X36"	LANE REDUCTION TRANSITION - RT		9.00	
0010	49	320+55	LT	1	W9-1R	36"X36"	RIGHT LANE ENDS		9.00	
0010	50	320+55	RT	1	W9-1R	36"X36"	RIGHT LANE ENDS		9.00	
0010	51	325+06	RT	1	D5-62-R	48"X24"	WAYSIDE (RIGHT ARROW)	8.00		
0010	52	329+15	LT	1	D5-62-L	48"X24"	WAYSIDE (LEFT ARROW)	8.00		
0010	53	333+00	RT	1	R3-72	30"X36"	ONCOMING TRAFFIC USES CENTER LANE	7.50		
0010	54	353+72	LT	1	D5-61	48"X24"	WAYSIDE 1/2 MILE	8.00		
0010	55	356+00	LT	1	R4-3	24"X30"	SLOWER TRAFFIC KEEP RIGHT	5.00		
0010	56	356+98	RT	1	W14-3	48"X36"	NO PASSING ZONE		6.00	
0010	57	359+40	LT	1	W14-3	48"X36"	NO PASSING ZONE		6.00	
0010	58	360+14	RT	1	J1-1	24"X39"	JCT COUNTY F	6.50		
0010	59	364+87	RT	1	W1-2R	30"X30"	RIGHT CURVE		6.25	
0010	60	365+22	LT	1	J4-1	24"X36"	SOUTH 63	6.00		
0010	61	365+34	RT	2	D1-1	102"X15"	TRANUS LAKE RD (RIGHT ARROW)	10.63		SEE SIGN PLATES
0010	62	366+86	LT	1	I55-56	30"X36"	ADOPT A HIGHWAY	7.50		
0010	64	369+75	RT	1	J13-1	24"X45"	COUNTY F (LEFT ARROW)	7.50		
0010	65	369+50	LT	1	R1-1	30"X30"	STOP	5.18		
0010	66	370+16	LT	1	R1-1	30"X30"	STOP	5.18		
0010	67	373+95	RT	1	J4-1	24"X36"	NORTH 63	6.00		
0010	68	373+95	LT	1	J13-1	24"X45"	COUNTY F (RIGHT ARROW)	7.50		
0010	69	376+56	RT	1	R4-3	24"X30"	SLOWER TRAFFIC KEEP RIGHT	5.00		
0010	70	377+88	LT	2	D1-1	102"X15"	TRANUS LAKE RD (LEFT ARROW)	10.63		SEE SIGN PLATES
0010	245	382+00	LT	1	J1-1	24"X39"	JCT COUNTY F	6.50		
0010	71	385+05	LT	1	W1-2L	30"X30"	LEFT CURVE		6.25	
0010	72	405+00	RT	2	D7-54	48"X36"	CANOE LANDING 1/2 MILE	12.00		SEE SIGN PLATES
0010	73	408+45	RT	1	W9-1R	36"X36"	RIGHT LANE ENDS		9.00	
0010	74	408+45	LT	1	W9-1R	36"X36"	RIGHT LANE ENDS		9.00	
0010	75	414+48	LT	1	W4-2R	36"X36"	LANE REDUCTION TRANSITION - RT		9.00	
0010	76	414+48	RT	1	W4-2R	36"X36"	LANE REDUCTION TRANSITION - RT		9.00	
0010	77	423+62	LT	1	S3-1	36"X36"	SCHOOL BUS STOP AHEAD		9.00	
0010	77A	433+70	RT	1	W1-2R	30"X30"	RIGHT CURVE		6.25	
0010	78	433+70	RT	1	S3-1	36"X36"	SCHOOL BUS STOP AHEAD		9.00	
0010	79	436+30	RT	1	W14-3	48"X36"	NO PASSING ZONE		6.00	
0010	80	439+27	RT	2	D1-1	114"X15"	BRICKMAN LAKE RD (LEFT ARROW)	11.88		SEE SIGN PLATES
		SUBTOTAL		48				152.495	166.50	

MISCELLANEOUS QUANTITIES

SIGNS TYPE II

				634.0616 WOOD POSTS 4X6-INCH				637.2210 SIGNS REFLECT H	637.2230 SIGNS REFLECT F	
CAT	NO.	STATION	LOC	EACH	CODE	SIZE	MESSAGE	SF	SF	REMARKS
0010	81	439+90	RT	2			GROAT LANDING (RIGHT ARROW)			POSTS ONLY - SIGN BEING MOVED
0010	82	443+15	RT	1	R1-1	30"X30"	STOP	5.18		
0010	83	448+80	LT	2			GROAT LANDING (LEFT ARROW)			POSTS ONLY - SIGN BEING MOVED
0010	84	453+23	LT	2	D1-1	114"X15"	BRICKMAN LAKE RD (RIGHT ARROW)	11.88		SEE SIGN PLATES
0010	85	455+58	LT	1	S3-1	36"X36"	SCHOOL BUS STOP AHEAD		9.00	
0010	86	456+68	LT	1	W2-2	30"X30"	SIDE ROAD LEFT (90 DEGREES)		6.25	
0010	87	460+46	RT	1	J1-1	24"X39"	JCT COUNTY M		6.50	
0010	88	461+17	LT	1	W1-2L	30"X30"	LEFT CURVE		6.25	
0010	89	461+90	RT	1	W14-3	48"X36"	NO PASSING ZONE		6.00	
0010	90	464+88	RT	2	D1-1	72"X15"	STANBERRY (LEFT ARROW)	7.50		SEE SIGN PLATES
0010	91	467+38	LT	1	D7-54	48"X36"	CANOE LANDING 1/2 MILE	12.00		SEE SIGN PLATES
0010	92	469+10	LT	1	J4-1	24"X36"	SOUTH 63	6.00		
0010	93	469+86	RT	1	J12-1	24"X45"	CTH M (LEFT ARROW)	7.50		
0010	94	470+40	LT	1	R1-1	30"X30"	STOP	5.18		
0010	95	470+87	RT	1	W1-7	48"X24"	NIGHT ARROW (DOUBLE)		8.00	
0010	96	470+87	RT	1	M1-4	24"X24"	USH 63	4.00		
0010	97	472+08	LT	1	J12-1	24"X45"	COUNTY M (RIGHT ARROW)	7.50		
0010	98	472+95	RT	0	W16-9P	24"X8"	AHEAD	1.33		
0010	99	472+95	RT	1	W12-2	36"X36"	CLEARANCE 14'-10"		9.00	
0010	100	476+79	RT	1	J4-1	24"X36"	NORTH 63	6.00		
0010	101	476+79	LT	2	D1-1	72"X15"	STANBERRY (RIGHT ARROW)	7.50		SEE SIGN PLATES
0010	102	482+29	RT	1	W12-2	36"X36"	CLEARANCE 14'-10"		9.00	
0010	103	482+05	LT	1	J1-1	24"X39"	JCT COUNTY M	6.50		
0010	104	487+52	RT	2	D1-1	90"X15"	STANBERRY RD (LEFT ARROW)	9.38		SEE SIGN PLATES
0010	105	492+34	LT	1	W5-52L	12"X36"	CLEARANCE STRIPER DOWN LT		3.00	
0010	106	492+75	RT	1	W5-52R	12"X36"	CLEARANCE STRIPER DOWN RT		3.00	
0010	107	492+94	LT	1	W5-52R	12"X36"	CLEARANCE STRIPER DOWN RT		3.00	
0010	108	493+13	RT	1	W5-52L	12"X36"	CLEARANCE STRIPER DOWN LT		3.00	
0010	109	493+64	LT	1	R1-1	30"X30"	STOP	5.18		
0010	110	501+56	LT	2	D1-1	90"X15"	STANBERRY RD (RIGHT ARROW)	9.38		SEE SIGN PLATES
0010	111	504+52	LT	1	W12-2	36"X36"	CLEARANCE 14'10"		9.00	
0010	112	509+89	RT	1	W14-3	48"X36"	NO PASSING ZONE		6.00	
0010	113	515+60	LT	1	W14-3	48"X36"	NO PASSING ZONE		6.00	
0010	246	522+00	LT	1			CLEARANCE 14'-10"		9.00	
0010	247	522+00	LT	0			AHEAD	1.33		
0010	114	523+45	RT	1	W1-2R	30"X30"	RIGHT CURVE		6.25	
0010	115	529+30	RT	1	R1-1	30"X30"	STOP	5.18		
0010	116	533+30	LT	1	R1-1	30"X30"	STOP	5.18		
0010	116(2)	552+48	LT	1	R1-1	30"X30"	STOP	5.18		
0010	117	539+48	LT	1	W1-2L	30"X30"	LEFT CURVE		6.25	
0010	118	539+48	RT	1	W1-4R	30"X30"	RIGHT REVERSE CURVE		6.25	
0010	119	548+15	RT	2	D1-1	84"X15"	HAYWARD RD (RIGHT ARROW)	8.75		SEE SIGN PLATES
0010	120	551+27	RT	1	D7-54	48"X36"	CANOE LANDING 1/2 MILE	12.00		SEE SIGN PLATES
		SUBTOTAL		49				149.63	120.75	

MISCELLANEOUS QUANTITIES

SIGNS TYPE II

				634.0616 WOOD POSTS 4X6-INCH				637.2210 SIGNS REFLECT H	637.2230 SIGNS REFLECT F	
CAT	NO.	STATION	LOC	EACH	CODE	SIZE	MESSAGE	SF	SF	REMARKS
0010	121	559+46	LT	2	D1-1	84"X15"	HAYWARD RD (LEFT ARROW)	8.75		SEE SIGN PLATES
0010	122	565+58	RT	1	J1-1	24"X39"	JCT COUNTY E	6.50		
0010	123	571+30	RT	1	S3-1	36"X36"	SCHOOL BUS STOP AHEAD		9.00	
0010	124	571+83	LT	1	J4-1	24"X36"	SOUTH 63	6.00		
0010	125	574+52	LT	1	R1-1	30"X30"	STOP	5.18		
0010	126	575+70	RT	1	J12-1	24"x45"	COUNTY E (RIGHT ARROW)	7.50		
0010	127	576+34	LT	1	J12-1	24"x45"	COUNTY E (LEFT ARROW)	7.50		
0010	128	576+65	RT	1	R1-1	30"X30"	STOP	5.18		
0010	129	578+73	RT	1	J4-1	24"X36"	NORTH 63	6.00		
0010	130	579+85	RT	2	D1-1	120"X15"	STINNETT LANDING RD (LEFT ARROW)	12.50		SEE SIGN PLATES
0010	131	581+10	RT	1	I55-56	30"X36"	ADOPT A HIGHWAY	7.50		
0010	132	582+38	RT	2			STINNETT LANDING (RIGHT ARROW)			POSTS ONLY - SIGN BEING MOVED
0010	133	583+62	RT	1	R1-1	30"X30"	STOP	5.18		
0010	134	584+44	LT	2			STINNETT LANDING (LEFT ARROW)			POSTS ONLY - SIGN BEING MOVED
0010	135	589+45	LT	2	D1-1	120"X15"	STINNETT LANDING RD (RIGHT ARROW)	12.50		SEE SIGN PLATES
0010	136	598+28	LT	0	W1-4R	30"X30"	RIGHT REVERSE CURVE		6.25	
0010	137	598+28	LT	1	W13-1	18"X18"	50 M.P.H.		2.25	
0010	138	613+28	LT	1	D7-54	48"X36"	CANOE LANDING 1/2 MILE	12.00		SEE SIGN PLATES
0010	139	648+43	RT	2	D1-1	66"X15"	RIVER RD (RIGHT ARROW)	6.88		SEE SIGN PLATES
0010	140	651+17	RT	1	W1-2L	30"X30"	LEFT CURVE		6.25	
0010	141	654+93	RT	1	R1-1	30"X30"	STOP	5.18		
0010	142	666+27	LT	2	D1-1	66"X15"	RIVER RD (LEFT ARROW)	6.88		SEE SIGN PLATES
0010	143	669+57	LT	1	W1-2R	30"X30"	RIGHT CURVE		6.25	
0010	144	672+10	RT	2	D1-1	96"X15"	RIVER RD ALLEY (RIGHT ARROW)	10.00		SEE SIGN PLATES
0010	145	683+90	RT	1	R1-1	30"X30"	STOP	5.18		
0010	146	689+65	LT	2	D1-1	96"X15"	RIVER RD ALLEY (LEFT ARROW)	10.00		SEE SIGN PLATES
0010	147	691+83	RT	1	W14-3	48"X36"	NO PASSING ZONE		6.00	
0010	148	693+22	LT	1	I55-56	30"X36"	ADOPT A HIGHWAY	7.50		
0010	149	692+38	LT	1	J4-1	24"X36"	SOUTH 63	6.00		
0010	150	694+35	LT	2	I2-2	72"X15"	WASHBURN CO	7.50		SEE SIGN PLATES
0010	151	695+80	RT	2	I2-2	60"X15"	SAWYER CO	6.25		SEE SIGN PLATES
0010	152	697+00	RT	1	J4-1	24"X36"	NORTH 63	6.00		
0010	153	698+89	RT	1	I55-56	30"X36"	ADOPT A HIGHWAY	7.50		
0010	237	700+00	RT	1	W10-3	36"X36"	RR CROSSING SIDE ROAD	9.00		
0010	238	715+00	LT	1	W10-3	36"X36"	RR CROSSING SIDE ROAD	9.00		
0010	155	708+35	RT	1	R1-1	30"X30"	STOP	5.18		
0010	156	716+42	LT	1	W14-3	48"X36"	NO PASSING ZONE		6.00	
0010	157	716+42	RT	1	W14-3	48"X36"	NO PASSING ZONE		6.00	
0010	239	729+00	RT	1	W10-3	36"X36"	RR CROSSING SIDE ROAD	9.00		
0010	158	731+76	RT	1	W1-2L	30"X30"	LEFT CURVE		6.25	
		SUBTOTAL		50				219.34	54.25	

MISCELLANEOUS QUANTITIES

SIGNS TYPE II

				634.0616 WOOD POSTS 4X6-INCH				637.2210 SIGNS REFLECT H	637.2230 SIGNS REFLECT F	
CAT	NO.	STATION	LOC	EACH	CODE	SIZE	MESSAGE	SF	SF	REMARKS
0010	159	734+07	LT	1	W4-2R	36"X36"	LANE REDUCTION TRANSITION - RT		9.00	
0010	160	734+07	RT	1	W4-2R	36"X36"	LANE REDUCTION TRANSITION - RT		9.00	
0010	161	737+18	RT	1	R1-1	30"X30"	STOP	5.18		
0010	162	739+96	RT	1	W9-1R	36"X36"	RIGHT LANE ENDS		9.00	
0010	163	739+96	LT	1	W9-1R	36"X36"	RIGHT LANE ENDS		9.00	
0010	240	744+00	LT	1	W10-3	36"X36"	RR CROSSING SIDE ROAD	9.00		
0010	164	745+18	RT	1	R3-72	30"X36"	ONCOMING TRAFFIC USES CENTER LANE	7.50		
0010	165	748+70	RT	1	W54-56	30"X30"	PLANT ENTRANCE		6.25	
0010	166	754+72	LT	1	W54-56	30"X30"	PLANT ENTRANCE		6.25	
0010	167	755+80	RT	1	R3-20R	24"X36"	BEGIN RIGHT TURN LANE	6.00		
0010	168	760+83	LT	1	W14-3	48"X36"	NO PASSING ZONE		6.00	
0010	169	760+65	RT	1	R1-1	30"X30"	STOP	5.18		
0010	170	763+83	LT	1	W1-2R	30"X30"	RIGHT CURVE		6.25	
0010	171	772+89	RT	1	R1-1	30"X30"	STOP	5.18		
0010	172	779+65	RT	1	R3-72	30"X36"	ONCOMING TRAFFIC USES CENTER LANE	7.50		
0010	173	781+22	LT	1	I55-56	30"X36"	ADOPT A HIGHWAY	7.50		
0010	174	784+05	LT	1	R4-3	24"X30"	SLOWER TRAFFIC KEEP RIGHT	5.00		
0010	175	788+33	RT	1	W14-3	48"X36"	NO PASSING ZONE		6.00	
0010	176	788+38	LT	1	R4-3	24"X30"	SLOWER TRAFFIC KEEP RIGHT	5.00		
0010	177	794+25	LT	1	W14-3	48"X36"	NO PASSING ZONE		6.00	
0010	178	800+95	RT	1	R1-1	30"X30"	STOP	5.18		
0010	179	805+29	LT	1	R4-51	36"X48"	PASSING LANE AHEAD 1/2 MILE	12.00		
0010	180	807+28	RT	1	W3-5	36"X36"	REDUCED SPEED LIMIT 45 AHEAD		9.00	
0010	181	809+12	LT	1	R1-1	30"X30"	STOP	5.18		
0010	182	810+12	RT	1	R1-1	30"X30"	STOP	5.18		
0010	183	813+14	LT	2	D2-1	72"X15"	SPOONER 25	7.50		SEE SIGN PLATES
0010	184	813+14	LT	1	J4-1	24"X36"	SOUTH 63	6.00		
0010	185	815+17	RT	1	R2-1	24"X30"	SPEED LIMIT 45	5.00		
0010	186									
0010	187	819+97	RT	1	R2-1	24"X30"	SPEED LIMIT 45	5.00		
0010	188	822+67	RT	1	WF16-9P	24"X8"	AHEAD		1.33	
0010	189	822+67	RT	0	W11-2	30"X30"	PEDESTRIAN CROSSING		6.25	
0010	190	823+97	RT	2	D1-1	90"X15"	GREENWOOD LA (LEFT ARROW)	9.38		SEE SIGN PLATES
0010	191	825+08	LT	1	R1-1	30"X30"	STOP	5.18		
0010	192	826+45	RT	0	W16-7L	24"X12"	DIAGONAL ARROW		2.00	MOUNTED ON CROSSWALK SIGNAL P(
0010	193	826+45	RT	0	W11-2	30"X30"	PEDESTRIAN CROSSING		6.25	MOUNTED ON CROSSWALK SIGNAL P(
0010	194	826+45	RT	0	W16-7R	24"X12"	DIAGONAL ARROW		2.00	MOUNTED ON CROSSWALK SIGNAL P(
0010	195	826+45	RT	0	W11-2	30"X30"	PEDESTRIAN CROSSING		6.25	MOUNTED ON CROSSWALK SIGNAL P(
0010	196	826+70	LT	0	W16-7R	24"X12"	DIAGONAL ARROW		2.00	MOUNTED ON CROSSWALK SIGNAL P(
0010	197	826+70	LT	0	W11-2	30"X30"	PEDESTRIAN CROSSING		6.25	MOUNTED ON CROSSWALK SIGNAL P(
0010	198	826+70	LT	0	W16-7L	24"X12"	DIAGONAL ARROW		2.00	MOUNTED ON CROSSWALK SIGNAL P(
0010	199	826+70	LT	0	W11-2	30"X30"	PEDESTRIAN CROSSING		6.25	MOUNTED ON CROSSWALK SIGNAL P(
		SUBTOTAL		34				128.64	122.33	

MISCELLANEOUS QUANTITIES

SIGNS TYPE II

				634.0616 WOOD POSTS 4X6-INCH				637.2210 SIGNS REFLECT H	637.2230 SIGNS REFLECT F	
CAT	NO.	STATION	LOC	EACH	CODE	SIZE	MESSAGE	SF	SF	REMARKS
0010	201	830+23	RT	1	R2-1	24"X30"	SPEED LIMIT 45	5.00		
0010	202	830+97	LT	2	D1-1	90"X15"	GREENWOOD LA (RIGHT ARROW)	9.38		SEE SIGN PLATES
0010	203	832+22	LT	1	WF16-9P	24"X8"	AHEAD		1.33	
0010	204	832+22	LT	0	W11-2	30"X30"	PEDESTRIAN CROSSING		6.25	
0010	205	832+60	RT	1	W14-3	48"X36"	NO PASSING ZONE		6.00	
0010	206	833+79	LT	1	R4-51	36"X48"	PASSING LANE AHEAD 1 MILE	12.00		
0010	207	839+65	RT	1	R2-1	24"X30"	SPEED LIMIT 45	5.00		
0010	208	842+30	LT	1	W14-3	48"X36"	NO PASSING ZONE		6.00	
0010	208B	853+13	RT	1	R2-1	24"X30"	SPEED LIMIT 45	5.00		
0010	209	856+28	RT	1	R10-64	30"X36"	NO ENGINE BRAKING EXCEPT IN EMERGENCY	7.50		
0010	210	856+95	LT	1	R2-1	24"X30"	SPEED LIMIT 45	5.00		
0010	211	859+13	RT	2	I2-3	66"X24"	HAYWARD POPULATION 2129	11.00		
0010	212									
0010	213	862+25	RT	1	R1-1	30"X30"	STOP	5.18		IF QTY STATION DOES NOT
0010	214	864+18	RT	1	W3-5	36"X36"	REDUCED SPEED LIMIT 25 AHEAD		9.00	MATCH PLANSHEETS
0010	215	865+45	LT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		USE THE PLANSHEET STATIONING
0010	216	865+68	RT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		"
0010	217	867+67	LT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		IF QTY STATION DOES NOT
0010	218	867+85	RT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		MATCH PLANSHEETS
0010	219	869+68	RT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		USE THE PLANSHEET STATIONING
0010	220	870+00	LT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		"
0010	237	870+50	RT	1			HAYWARD SPORTS CENTER			POSTS ONLY REMOVE AND REPLACE
0010	221	871+00	RT	1	R2-1	24"X30"	SPEED LIMIT 25	5.00		IF QTY STATION DOES NOT
0010	222	871+49	LT	1	W54-56	30"X30"	PLANT ENTRANCE		6.25	MATCH PLANSHEETS
0010	223	872+52	LT	1	R2-1	24"X30"	SPEED LIMIT 45	5.00		USE THE PLANSHEET STATIONING
0010	224	873+00	RT	1	R1-1	30"X30"	STOP	5.18		"
0010	225	865+00	RT	2	D7-57	54"X36"	TOURIST INFO 1/2 MILE	13.50		"
0010	226	872+87	LT	1	R1-1	30"X30"	STOP	5.18		"
0010	227	873+83	RT	1	R2-1	24"X30"	SPEED LIMIT 25	5.00		"
0010	228	873+72	LT	1	W4-2R	36"X36"	LANE REDUCTION TRANSITION - RT		9.00	"
0010	229	874+45	LT	1			HAYWARD SPORTS CENTER			POSTS ONLY REMOVE AND REPLACE
0010	230	874+45	LT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		IF QTY STATION DOES NOT
0010	231	860+50	LT	0	W12-2	36"X36"	14'10"		9.00	MATCH PLANSHEETS
0010	232	860+50	LT	1	W57-52	36"X24"	7.5 MILES AHEAD		6.00	USE THE PLANSHEET STATIONING
0010	233	875+37	RT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		"
0010	234	876+16	LT	0	W9-1R	30"X30"	RIGHT LANE ENDS		6.25	"
0010	235	876+16	LT	1	R7-1D	18"X24"	NO PARKING ANY TIME	3.00		"
0010	236	876+61	LT	1	R1-1	30"X30"	STOP	5.18		"
		SUBTOTAL		37				136.10	65.08	
		TOTAL		269				1033.79	571.41	

MISCELLANEOUS QUANTITIES

MOVING SIGNS TYPE II

CAT	STATION TO	STATION	LOC	638.2102 EACH	REMARKS
0010	439+00 -	440+00	RT	1	GROAT LANDING RT ARROW
0010	448+00 -	449+00	LT	1	GROAT LANDING LT ARROW
0010	582+00 -	583+00	RT	1	STINNETT LANDING RT ARROW
0010	584+00 -	585+00	LT	1	STINNETT LANDING LT ARROW
TOTAL 0010				4	

SIGN SUMMARY II

CAT	STATION	TO	STATION	LOC	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SGN SUP. EACH	REMARKS
0010	200+00	-	350+00	LT	31	34	
0010	200+00	-	350+00	RT	34	36	
0010	350+00	-	500+00	LT	29	32	
0010	350+00	-	500+00	RT	26	29	
0010	500+00	-	650+00	LT	14	18	
0010	500+00	-	650+00	RT	14	19	
0010	650+00	-	800+00	LT	17	19	
0010	650+00	-	800+00	RT	23	23	
0010	800+00	-	877+00	LT	31	26	
0010	800+00	-	877+00	RT	30	28	
TOTAL 0010					249	264	

TRAFFIC CONTROL SIGNS

CAT	STATION	TO	STATION	LOC	643.0900 TRAFFIC CONTROL SIGNS DAY	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	REMARKS
0010	180+00	-	886+08		510	30	PROJECT TERMINI AND CTH
0010	199+80	-	203+00	RT	0		CTH M TURN LANE
0010	199+80	-	203+00	LT&RT	8		PIPE 202
0010	368+00	-	375+00	LT	20		CTH F STAGE 1
0010	368+00	-	375+00	LT	0		CTH F STAGE 2
0010	430+29	-	430+29	LT&RT	3		PIPE 430
0010	492+00		492+00	LT&RT	3		PIPE 492
0010	507+21	-	507+21	LT&RT	3		PIPE 507
0010	549+28	-	549+28	LT&RT	3		PIPE 549
0010	572+00	-	578+00	RT	6		CTH E TURN LANE
0010	655+09	-	655+09	LT&RT	3		PIPE 655
0010	742+00	-	750+00	RT	3		SHOULDER FILL
0010	755+00	-	761+00	RT	3		L P PLANT ENTRANCE
0010	829+00	-	833+00	RT&LT	6		SHOULDER FILL
0010	857+00	-	861+00	RT	3		NURSERY TURN LANE
0010	869+00	-	872+00	RT	3		VERMONT TURN LANE
0010	872+00	-	872+00	RT&LT	3		PIPE 869
0010	SIDEROADS				660		MISC. SIDE ROADS
TOTAL 0010					1240	30	

FIELD OFFICE TYPE C

CAT	STATION	LOC	642.5201 EACH	REMARKS
0010	PROJECT		1	
TOTAL 0010			1	

GEOTEXTILE FABRIC TYPE R

CAT	STATION	LOC	645.0130 SY	REM
0010	870+00	RT	38	
TOTAL 0010			38	

TRAFFIC CONTROL SUMMARY

CAT	STATION	TO	STATION	LOC	643.0200 TRAFFIC CONTROL SURVEILLANCE DAY	643.0300 DRUMS DAY	643.0705 WARNING LIGHTS TYPE A DAY	643.0715 WARNING LIGHTS TYPE C DAY	643.0808 BARRICADES CLASS III DAY	REMARKS
0010	199+80	-	203+00	RT		28	5	8		CTH M TURN LANE
0010	199+80	-	203+00	LT&RT		24	5			PIPE 202
0010	368+00	-	375+00	LT		40	5	15	12	CTH F STAGE 1
0010	368+00	-	375+00	LT		40	5	15	12	CTH F STAGE 2
0010	430+29	-	430+29	LT&RT		20				PIPE 430
	492+00		492+00	LT&RT		20				PIPE 492
0010	507+21	-	507+21	LT&RT		20				PIPE 507
0010	549+28	-	549+28	LT&RT		20				PIPE 549
0010	572+00	-	578+00	RT		36	5	13		CTH E TURN LANE
0010	655+09	-	655+09	LT&RT		20				PIPE 655
0010	742+00	-	750+00	RT		20				SHOULDER FILL
0010	755+00	-	761+00	RT		20				L P PLANT ENTRANCE
0010	829+00	-	833+00	RT&LT		30				SHOULDER FILL
0010	857+00	-	861+00	RT		18				NURSERY TURN LANE
0010	869+00	-	872+00	RT		10				VERMONT TURN LANE
0010	872+00	-	872+00	RT&LT		24				PIPE 869
0010	PROJECT				30					
TOTAL 0010					30	390	25	51		

MISCELLANEOUS QUANTITIES

PAVEMENT MARKING SUMMARY

CAT	STATION	TO	STATION	646.0106 EPOXY 4-INCH WHITE EDGE LF	646.0126 EPOXY 8-INCH WHITE LANE EACH	646.0406 EPOXY SAME DAY 4-INCH YELLOW CENTER LF	647.0256 SYMBOLS EPOXY "PEDESTRIAN" EACH	647.0356 WORDS EPOXY "XING" EACH	647.0566 STOP LINE EPOXY 18-INCH SIDE RDS LF	647.0796 CROSSWALK EPOXY 24-INCH LF	648.0100 LOCATE NO PASS ZONES MI	649.0200 TEMPORARY REFLECTIVE PAINT 4-INCH YELLOW LF	REMARKS
0010	199+80	-	876+08	134467	2250	210648			825		13	200858	
0010	826+00	-	828+00				2	2		192			GREENWOOD
			TOTAL 0010	134467	2250	210648	2	2	825	192	13	200858	

STAKING SUMMARY 1

CAT	STATION	TO	STATION	LOC	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.5500 CONSTRUCTION STAKING CURB AND GUTTER LF	REMARKS
0010	212+86.4			LT	1		INLET SPRINGBROOK
0010	204+00	-	218+25	LT		1490	SPRINGBROOK
0010	203+00	-	204+50	RT		135	CTH M SOUTH
0010	240+00	-	241+00	RT		134	LARSON RD
0010	258+00	-	260+00	LT		137	HAMILTON
0010	369+00	-	371+00	LT		164	CTH F
0010	470+00	-	472+00	LT		140	CTH M NORTH
0010	575+50	-	577+00	RT		144	CTH E
0010	582+50	-	584+00	RT		150	STINNETT RD
0010	653+50	-	655+00	RT		152	RIVER RD
0010	683+00	-	684+00	RT		111	RIVER ALLEY
0010	759+50	-	760+50	RT		157	L.P. PLANT
0010	860+50	-	862+50	RT		151	NURSERY RD
0010	871+50	-	872+00	RT		158	VERMONT RT
0010	874+75	-	875+05	LT		41	DRIVE CURB
			TOTAL 0010		1	3264	

STAKING SUMMARY 2

CAT	STATION	TO	STATION	LOC	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	REMARKS
0010	199+80	-	203+28	RT	350	350	350	CTH M SOUTH TURN LANE
0010	742+00	-	748+00	RT			550	SHOULDER FILL
0010	829+00	-	832+00	LT-RT			300	SHOULDER FILL
			TOTAL 0010		350	350	1200	

STAKING SUMMARY 3

CAT	STATION	TO	STATION	LOC	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.8000 CONSTRUCTION STAKING RESURFACE REFERENCE LF	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL LS	REMARKS
0010	199+80		876+08			67628	1	PROJECT
0010	202+39	-	202+47		1			2 @ 36" CPRC
0010			218+81		1			1 @ 18" CPCM EXT
0010			430+27		1			1 @ 24" CPRC
0010			492+04		1			1 @ 14"X23" ELIP
0010	507+22	-	507+28		2			2 @ 24" CPRC
0010			549+48		2			1 @36" CPRC
0010	655+09	-	655+15		1			2 @ 24" CPRC
0010	736+00	-	737+00		1			1 @ 18" CPCM EXT
0010	790+82	-	791+50		1			1 @ 18" CPCM
0010	870+10	-	870+23		2			2 @ 48" CPRC
0010	872+00		872+60		1			1 @ 18" CPCM EXT
			TOTAL 0010		14	67628	1	

MISCELLANEOUS QUANTITIES

SAWING ASPHALT

CAT	STATION	LOC	690.0150 LF	REMARKS
0010	199+80	N/A	30	BEGIN PROJ
0010	203+00	N/A	70	PIPES
0010	204+00	RT	24	CTH M SOUTH
0010	204+00	LT	30	TREPANIA
0010	208+00	LT	30	LUMBARD
0010	217+00	RT	16	ANDREWS
0010	218+00	LT	20	LEGION
0010	240+00	RT	20	LARSON
0010	259+00	LT	20	HAMILTON
0010	327+00	RT	55	WAYSIDE
0010	370+00	LT	24	CTH F
0010	370+00	LT	20	TRANUS
0010	430+00	N/A	60	PIPE
0010	443+00	RT	20	BRICKMAN
0010	471+00	LT	24	CTH M NORTH
0010	494+00	LT	22	STANBERRY
0010	507+00	N/A	80	PIPE
0010	534+00	LT	22	LIL HAYWARD
0010	549+00	N/A	60	PIPE
0010	553+00	LT	26	HAYWARD
0010	576+00	RT	22	CTH E
0010	583+00	RT	22	STINNETT
0010	654+00	RT	20	RIVER RD
0010	655+00	N/A	60	PIPES
0010	678+60	N/A	130	EBS AREA
0010	683+00	RT	20	RIVER ALLEY
0010	707+00	RT	28	KRUGER
0010	736+00	RT	34	BOYS CAMP
0010	760+00	RT	34	L.P. ENTRANCE
0010	772+00	RT	28	TIMBERLAWN
0010	800+00	RT	20	OGREN
0010	809+00	RT	22	STRESS
0010	826+00	LT	28	GREENWOOD
0010	861+00	RT	26	NURSERY
0010	872+00	RT	50	VERMONT RT
0010	870+00	N/A	120	PIPES
0010	873+00	LT	30	VERMONT LT
TOTAL 0010			1367	

SPECIAL PAVING PAY ITEMS

CAT	STATION	TO	STATION	LOC	SPV.0105.02 MATERIAL TRANSFER VEHICLE LS	SPV.0105.03 PREPARATION OF FOUNDATION FOR ASPHALTIC PAVING SPECIAL LS	SPV.0090.02 REHEATING HMA LONGITUDINAL JOINTS SPECIAL LF	REMARKS
0010			PROJECT		1	1		
0010	199+80	-	876+08				67628	CENTERLINE
0010	305+00	-	351+00	LT			4600	PASS LANE
0010	378+00	-	423+00	RT			4500	PASS LANE
0010	726+00	-	784+00	LT			5800	PASS LANE
TOTAL 0010					1	1	82528	

COMPOSITE DRAWING, ORIGINAL ON FILE IN THE WASHBURN COUNTY REGISTER OF DEEDS OFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

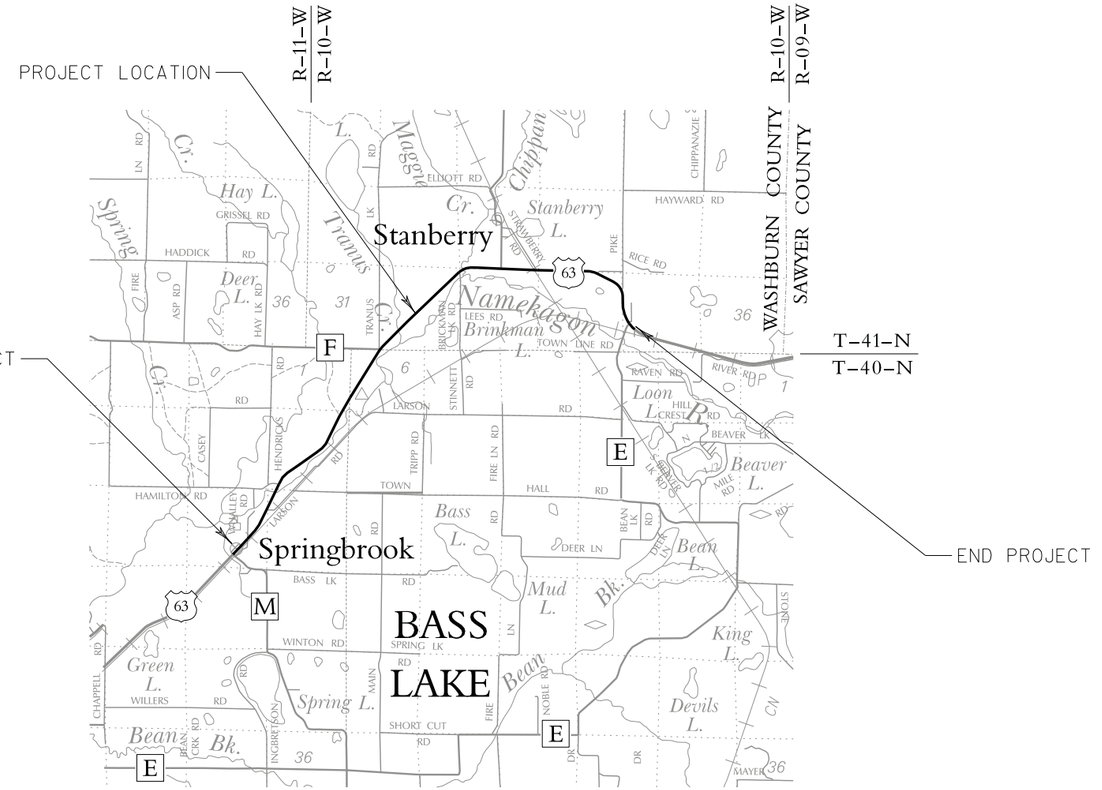
PROJECT NO. 1560-30-20

CTH M TO VERMONT AVE

USH 63

WASHBURN COUNTY





N

LAYOUT
SCALE 0 1 MI.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	LP (1" UNLESS NOTED)	PROPOSED R/W LINE
		EXISTING H.E. LINE
R/W MONUMENT	●(SET)	PROPERTY LINE
R/W STANDARD	▲(SET)	LOT & TIE LINES
SIGN	SIGN	SLOPE INTERCEPTS
SECTION CORNER MONUMENT		CORPORATE LIMITS
SECTION CORNER SYMBOL		ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY ACQUISITION)
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)
PERMANENT LIMITED EASEMENT		SECTION LINE
R/W BOUNDARY POINT		QUARTER LINE
PARCEL NUMBER	RWB20	SIXTEENTH LINE
UTILITY PARCEL NUMBER	102	EXISTING CENTERLINE
SIGN NUMBER (OFF PREMISE)	92	PROPOSED REFERENCE LINE
BUILDING	21-1	PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WASHBURN COUNTY, NAD83(1991) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES

COORDINATES AS SHOWN ARE NOT INTENDED TO BE USED FOR RETRACEMENT PURPOSES AND MUST BE VERIFIED WITH THE COUNTY SURVEY DEPARTMENT

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

RIGHT OF WAY REFERENCE LINE MAY NOT BE THE SAME AS THE CONSTRUCTION REFERENCE LINE

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR US 63 ESTABLISHED FROM PREVIOUS PROJECTS 1565-01-21, T011-2(27), VILLAGE OF SPRINGBROOK SUBDIVISION, CSM2425, CSM 1410, AND CSM 1218.
EXISTING HIGHWAY RIGHT-OF-WAY FOR SIDE ROADS ESTABLISHED FROM CENTERLINE OF EXISTING PAVEMENTS.
EXISTING ACCESS CONTROL ALONG US 63 ESTABLISHED FROM DOCUMENT NUMBERS 294442, 323357, AND 283460.

A **TEMPORARY LIMITED EASEMENT** (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLES EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTEREST TO DEPARTMENT OF TRANSPORTATION

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGIONAL OFFICE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1560-30-20 - 4.01
SHEET 2 OF 2
AMENDMENT NO: 100

COMPOSITE DRAWING, ORIGINAL ON FILE IN THE WASHBURN COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1560-30-20 - 4.01

THAT PART OF THE SW 1/4 OF THE SE 1/4 OF SECTION 14, ALL BEING LOCATED IN TOWNSHIP 40 NORTH, RANGE 11 WEST, TOWN OF SPRINGBROOK, WASHBURN COUNTY, WISCONSIN.

RELOCATION ORDER USH 63 SPOONER - HAYWARD (CTH M - VERMONT AVENUE) WASHBURN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC# 363248
CERTIFIED, FILED, AND OR RECORDED ON:
JUNE 13, 2014 9:40 AM
DIANE POACH
WASHBURN CO REGISTER OF DEEDS
SHELL LAKE, WI 54871

FEE AMOUNT: $30.00
TOTAL PAGES: 2
ENV. # 217

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1560-30-20-4.01
SHEET 1 OF 2
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	R/W ACRES REQUIRED EXISTING	R/W ACRES REQUIRED TOTAL	TLE ACRES
50	STATE OF WISCONSIN RAILS AND HARBOR SECTION	TLE	---	---	---	0.066

HIGHWAY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 63	T011-2 (27)	VARIES	1964
USH 63	1565-1-21	VARIES	1970
USH 63	VILLAGE OF SPRINGBROOK SUBDIVISION	VARIES	1908

COURSE TABLE		
COURSE	BEARING	DISTANCE
S 1/4 SEC.14-101	N 00°03'39" E	395.21
101-102	N 41°35'27" E	264.68'
102-103	N 47°35'54" W	53.16'
103-104	N 42°24'06" E	800.00'
104-105	S 47°35'54" E	41.84'
105-106	S 41°35'27" W	374.49'
106-107	S 41°35'27" W	66.06'
107-102	S 41°35'27" W	359.53'

STATION-OFFSET TABLE		
POINT NO.	STATION	OFFSET
102	200+00.00	53.16
103	200+00.00	0.00
104	208+00.00	0.00
105	208+00.00	41.84
106	204+25.54	47.14
107	203+59.49	48.08

TLE STATION-OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE150	201+65.77	50.82
TLE151	202+01.09	73.32
TLE152	202+35.98	72.83
TLE153	202+35.90	66.83
TLE154	203+35.00	65.42
TLE155	203+35.00	48.42

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	CENTURYLINK	RELEASE OF RIGHTS

UTILITY EASEMENT INFORMATION		
UTILITY	RECORDING INFORMATION	PARCEL
200	NONE FOUND	50

FOUND
7/8" IRON ROD
Y=790942.209
X=616639.708

T 40 N
R 11 W
11 14

FOUND
1.5" IRON PIPE
Y=611384.647
X=790936.623

T 40 N
R 11 W
14 23

N 00°03'39" E
395.21'

S 00°03'39" W
4859.85'

SE/SW

P.L.

NORTH-SOUTH 1/4 LINE

TOWN

UNIMPROVED RD

VILLAGE OF SPRING BROOK BLOCK 6
LOT 6 | LOT 5 | LOT 4 | LOT 3 | LOT 2 | LOT 1

VILLAGE OF SPRING BROOK BLOCK 5
LOT 6 | LOT 5 | LOT 4 | LOT 3 | LOT 2 | LOT 1

66'

TREPANIA RD

NW/SE

VILLAGE OF SPRING BROOK BLOCK 3
LOT 7 | LOT 6 | LOT 5 | LOT 4 | LOT 3 | LOT 2 | LOT 1

NORTH LINE OF THE SW1/4 OF THE SE1/4

VILLAGE OF SPRING BROOK BLOCK 4
LOT 8 | LOT 7 | LOT 6 | LOT 4 | LOT 2 | LOT 1

LUMBARD LN

76'

PI STA209+15.85

CENTURYLINK
SLOPE INTERCEPT
WE ENERGIES

STA 200+00
Y=612013.67
X=791073.48

200+00 | 202+00 | 204+00 | USH 63 | 206+00 | 208+00

VARIES

R=N42°24'06"E

R=N41°33'35"E

103 | 102 | 101 | 104 | 105 | 106 | 107

TLE150 | TLE151 | TLE152 | TLE153 | TLE154 | TLE155

23' | 17'

200

50

CTH M

SW/SE

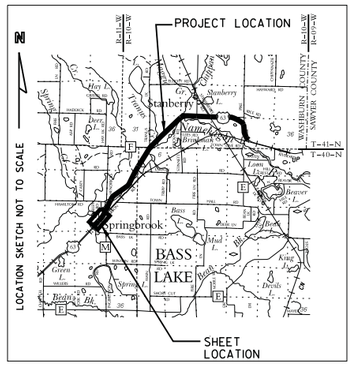
SPRINGBROOK

ANDREWS RD

P.L.

LOT 1
CSM 3748
V.18 P.91
DOC. 346167

P.L.



FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SUPERIOR

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

0 50 100
SCALE, FEET

Refer to the Title Sheet, recorded as Sheet 2 of 2.

emcs.llc

I, KEVIN C. BOYER, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1560-30-20-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

Kevin C. Boyer DATE: 6/6/2014
KEVIN C. BOYER
REGISTERED LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
(SIGNATURE) DATE: 6/6/2014
(PRINTED NAME) 101

FILE NAME : P:\48xx\4821.4699W035.SP.13.USH63.SAW\CADDS\Plan\TPP\Washburn County\040101_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 6/6/2014
PLOT BY : bjl
PLOT NAME :
PLOT SCALE : 1:50

1560-30-20 4.01

COMPOSITE DRAWING, ORIGINAL ON FILE IN THE WASHBURN COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1560-30-20 - 4.02

THAT PART OF THE SW 1/4 OF THE SW 1/4 OF SECTION 12, ALL BEING LOCATED IN TOWNSHIP 40 NORTH, RANGE 11 WEST, TOWN OF SPRINGBROOK, WASHBURN COUNTY, WISCONSIN.

RELOCATION ORDER USH 63 SPOONER - HAYWARD (CTH M - VERMONT AVENUE) WASHBURN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC# 363493
Certified, Filed, and/or Recorded on: June 30, 2014 8:00 AM
DIANE POACH
WASHBURN CO REGISTER OF DEEDS
SHELL LAKE WI 54871
Fee Amount: $25.00
Total Pages: 1
Env. 2268

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1560-30-20-4.02
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL		INTEREST	R/W ACRES REQUIRED			TLE
NUMBER	OWNERS	REQUIRED	NEW	EXISTING	TOTAL	ACRES
1	JON & JULIE GLYNN	TLE	---	---	---	0.016

UTILITY INTERESTS REQUIRED

UTILITY		INTEREST
NUMBER	OWNER(S)	REQUIRED
203	WE ENERGIES (GAS)	RELEASE OF RIGHTS

UTILITY EASEMENT INFORMATION		
UTILITY	RECORDING INFORMATION	PARCEL
203	DOC. 222057	1

COURSE TABLE		
COURSE	BEARING	DISTANCE
SW 1/4 SEC.12-200	S 88°48'27" E	451.04'
200-201	N 24°28'02" E	306.77'
201-202	N 35°42'15" W	94.21'
202-TLE 250	N 05°50'31" E	66.01
TLE 250-209	S 83°12'49" E	27.56'
209-203	N 66°35'13" E	158.87'
203-204	N 24°28'02" E	78.79'
204-205	SEE CURVE DATA ON SHEET	
205-206	S 53°14'08" E	40.00'
206-207	SEE CURVE DATA ON SHEET	
207-208	S 24°28'02 "W	591.08'
208-200	N 88°48'27" W	76.20'

HIGHWAY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 63	1565-1-21	VARIES	1970

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
200	254+71.38	-70.00
201	257+78.15	-70.00
202	258+25.01	-151.73
203	260+13.78	-40.00
204	260+92.57	-40.00
205	264+00.00	-40.00
206	264+00.00	0.00
207	260+92.57	0.00
208	255+01.49	0.00
209	258+95.94	-146.55

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE250	258+87.57	-172.81
TLE251	258+92.33	-174.33
TLE252	259+03.31	-139.89
TLE253	260+06.04	-47.00
TLE254	260+85.57	-47.00
TLE255	260+85.57	-40.00

CALCULATED FROM TIES
Y=616582.152
X=793525.149

T 40 N
R 11 W
11 12 13 14

TOWN

S 88°48'27" E
451.04'

HAMILTON RD

66'

SW/SW

TLE250
TLE251
202
209
TLE252
1
203
TLE253
TLE254
TLE255
204
205
206
207
200
201
208

PC STA260+92.57
Y=617109.18
X=794297.09

PI STA264+61.43

R =1472.40'
L =316.01'
CB =N 30°36'57" E
CL =315.41

R =1432.40'
L =307.43
CB =S 30°36'57" W
CL =306.84

USH 63
CURVE 1 DATA
PI = 264+61.43
Y = 617444.91
X = 794449.86
T = 368.86'
L = 722.03'
R = 1432.40'
DELTA = 28°52'51" RT
D = 04°00'00"

SLOPE INTERCEPT
252+00
254+00
256+00
258+00
260+00
262+00
264+00
USH 63
℄=N24°28'02"E
WE ENERGIES
CENTURYLINK
CURVE 1
SLOPE INTERCEPT
50'
50'
70'
70'
40'
55'
7'
BL
STA 252+00
Y=616296.76
X=793927.41

NW/NW

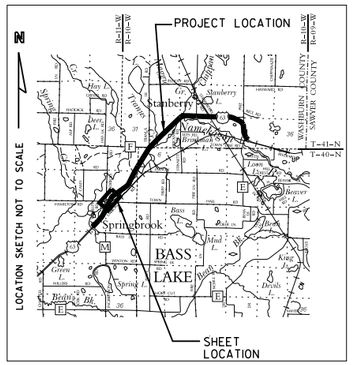
N 88°48'27" W
2043.97'

NORTH LINE OF THE NW1/4

FOUND
ALUMINUM CAPPED
MONUMENT
Y=616528.638
X=796095.804

T 40 N
R 11 W
12 13

SPRINGBROOK



SCALE, FEET 0 50 100

Refer to the Title Sheet, recorded as Sheet 2 of 2, as Document No. 363248 for additional information

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SUPERIOR

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

emcs.inc

I, KEVIN C. BOYER, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1560-30-20-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 6/20/2014
KEVIN C. BOYER
REGISTERED LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
Michael Miller DATE: 6/20/2014
(SIGNATURE)
(PRINTED NAME)

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

FILE NAME : P:\48xx\4821.4699WO35.SP.13.USH63.SAW\CADDS\Plan\TPP\Washburn County\040102_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 6/20/2014
PLOT BY : bjl
PLOT NAME :
PLOT SCALE : 1:50

1560-30-20 4.02

COMPOSITE DRAWING, ORIGINAL ON FILE IN THE WASHBURN COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1560-30-20 - 4.03
AMENDMENT NO: 1

AMENDMENT MODIFIES THE STATION AND OFFSET TABLES TO CORRECT THE LIST OF POINTS AND RELATED ALIGMENTS.

THAT PART OF THE FRACTIONAL NW 1/4 SECTION 6, TOWNSHIP 40 NORTH, RANGE 10 WEST, TOWN OF BASS LAKE. ALSO PART OF THE SE 1/4 OF THE SE 1/4 OF SECTION 31 AND THAT PART OF THE SW 1/4 OF THE SW 1/4 OF SECTION 32, TOWNSHIP 41 NORTH, RANGE 10 WEST, TOWN OF STINNETT, ALL BEING LOCATED IN WASHBURN COUNTY, WISCONSIN.

RELOCATION ORDER USH 63 SPOONER - HAYWARD (CTH M - VERMONT AVENUE) WASHBURN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC# 365397
Certified, Filed, and/or Recorded on: November 17, 2014 9:11 AM
DIANE POACH
WASHBURN CO REGISTER OF DEEDS
SHELL LAKE WI 54871
Fee Amount: $25.00
Total Pages: 1
Encl 2258

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1560-30-20-4.03
AMENDMENT NO: 1

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
2	HALINA MAZEK	FEE/TLE	0.083	---	0.083	0.012
3	PATRICK L. MOLITOR	FEE/TLE	0.087	---	0.087	0.027
4	MAURICE SPILKY, TRUSTEE FOR GAIL C. SPILKY, MYRNA SPILKY & LEE S. SPILKY	TLE	---	---	---	0.019

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
CTH F		
300	12+00.00	0.83
301	12+00.00	0.00
302	12+00.00	-32.17
USH 63		
309	371+75.50	-40.00
310	374+00.00	-40.00
311	374+00.00	0.00
312	370+99.40	0.00
313	367+97.35	0.00
314	367+97.35	-40.00
PRW315	368+80.28	-40.00
TRANUS LAKE RD		
PRW303	20+43.82	-33.19
PRW304	21+81.44	-27.40
305	21+89.16	0.00
306	21+90.24	4.55
307	21+96.66	36.78
308	21+57.23	51.66
CTH F		
PRW316	14+95.56	54.58
PRW317	14+72.54	40.00
PRW318	12+95.89	33.31
319	12+00.00	33.83

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
USH 63		
TLE350	368+39.07	-40.00
TLE351	368+88.69	-45.64
TLE361	371+70.81	-48.00
TLE362	373+00.00	-46.00
TLE363	373+00.00	-40.00
CTH F		
TLE352	13+18.71	38.19
TLE353	12+29.11	38.67
TLE354	12+29.08	33.67
TLE355	12+28.73	-32.33
TLE356	12+28.68	-40.33
TLE357	13+24.68	-40.85
TLE358	13+24.73	-32.85
TRANUS LAKE RD		
TLE359	20+41.85	-36.14
TLE360	21+87.58	-28.81

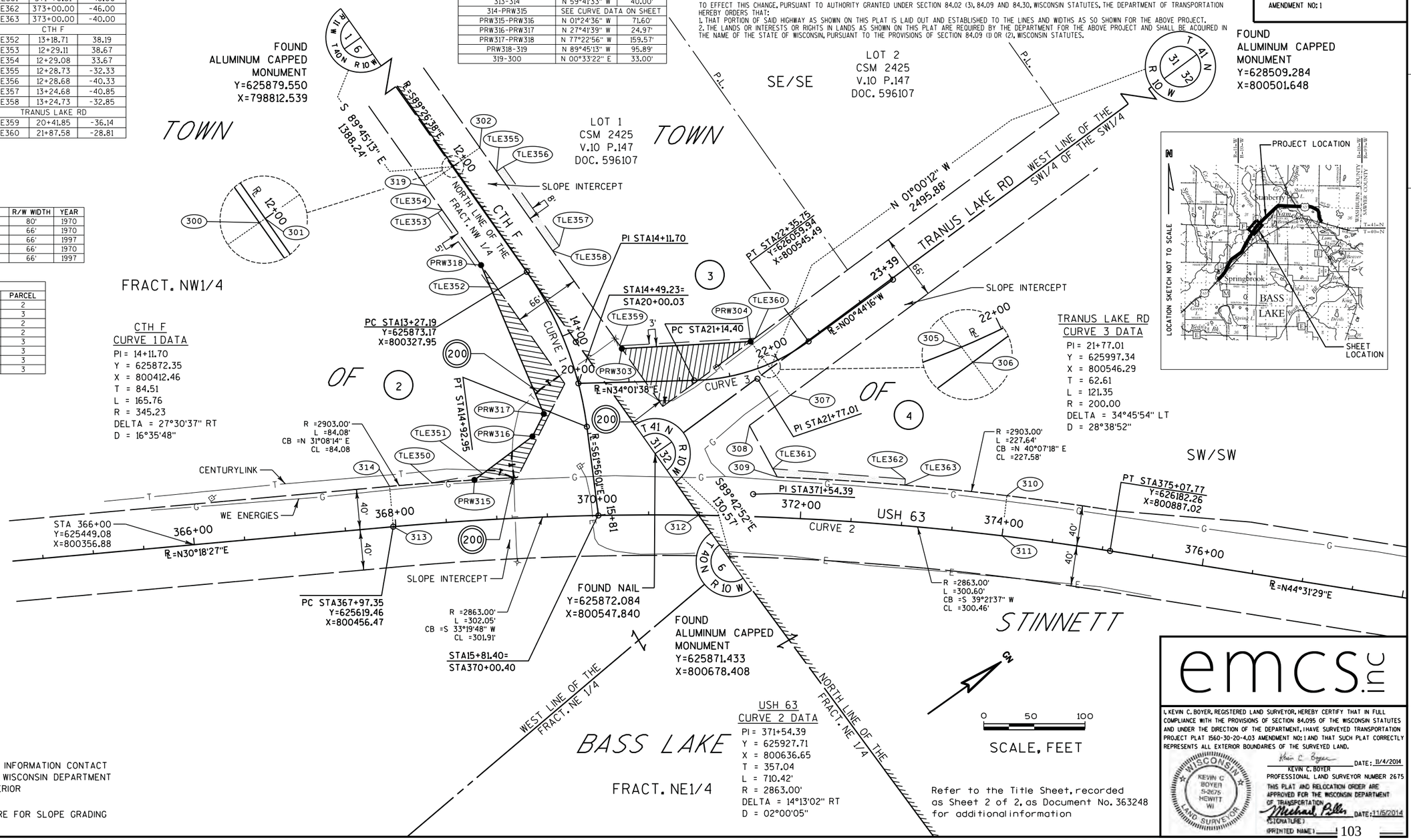
UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	CENTURYLINK	RELEASE OF RIGHTS
204	BARRON ELECTRIC COOPERATIVE	RELEASE OF RIGHTS

COURSE TABLE		
COURSE	BEARING	DISTANCE
NW 1/4 SEC.6-300	S 89°45'13" E	1388.24'
300-301	N 00°33'22" E	0.83'
301-302	N 00°33'22" E	32.17'
302-PRW303	S 89°45'13" E	243.17'
PRW303-PRW304	N 32°18'47" E	127.41'
PRW304-305	N 88°59'48" E	28.32'
305-306	N 88°59'48" E	4.68'
306-307	N 88°59'48" E	33.00'
307-308	S 01°00'12" E	50.29'
308-309	S 82°55'36" E	57.91'
309-310	SEE CURVE DATA ON SHEET	
310-311	S 47°37'55" E	40.00'
311-312	SEE CURVE DATA ON SHEET	
312-313	SEE CURVE DATA ON SHEET	
313-314	N 59°41'33" W	40.00'
314-PRW315	SEE CURVE DATA ON SHEET	
PRW315-PRW316	N 01°24'36" W	71.60'
PRW316-PRW317	N 27°41'39" W	24.97'
PRW317-PRW318	N 77°22'56" W	159.57'
PRW318-319	N 89°45'13" W	95.89'
319-300	N 00°33'22" E	33.00'

HIGHWAY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 63	1565-1-21	80'	1970
CTH F	1565-1-21	66'	1970
CTH F	CSM 2425	66'	1997
TRANUS LAKE RD	1565-1-21	66'	1970
TRANUS LAKE RD	CSM 2425	66'	1997

UTILITY EASEMENT INFORMATION		
UTILITY	RECORDING INFORMATION	PARCEL
200	DOC. 142108	2
200	NONE FOUND	3
204	DOC. 224441	2
204	DOC. 236055	2
204	DOC. 220540	3
204	DOC. 231555	3
204	DOC. 175897	3
204	DOC. 198777	3



TRANUS LAKE RD CURVE 3 DATA

PI = 21+77.01
Y = 625997.34
X = 800546.29
T = 62.61
L = 121.35
R = 200.00
DELTA = 34°45'54" LT
D = 28°38'52"

CTH F CURVE 1 DATA

PI = 14+11.70
Y = 625872.35
X = 800412.46
T = 84.51
L = 165.76
R = 345.23
DELTA = 27°30'37" RT
D = 16°35'48"

USH 63 CURVE 2 DATA

PI = 371+54.39
Y = 625927.71
X = 800636.65
T = 357.04
L = 710.42'
R = 2863.00'
DELTA = 14°13'02" RT
D = 02°00'05"

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SUPERIOR

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

Refer to the Title Sheet, recorded as Sheet 2 of 2, as Document No. 363248 for additional information

emcs.LLC

I, KEVIN C. BOYER, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1560-30-20-4.03 AMENDMENT NO: 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

KEVIN C BOYER S-2675 HEWITT WI WISCONSIN LAND SURVEYOR

Kevin C. Boyer DATE: 11/4/2014
KEVIN C. BOYER
PROFESSIONAL LAND SURVEYOR NUMBER 2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

(SIGNATURE) DATE: 11/5/2014
(PRINTED NAME) 103

COMPOSITE DRAWING, ORIGINAL ON FILE IN THE WASHBURN COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1560-30-20 - 4.03

THAT PART OF THE FRACTIONAL NW 1/4 SECTION 6, TOWNSHIP 40 NORTH, RANGE 10 WEST, TOWN OF BASS LAKE. ALSO PART OF THE SE 1/4 OF THE SE 1/4 OF SECTION 31 AND THAT PART OF THE SW 1/4 OF THE SW 1/4 OF SECTION 32, TOWNSHIP 41 NORTH, RANGE 10 WEST, TOWN OF STINNETT, ALL BEING LOCATED IN WASHBURN COUNTY, WISCONSIN.

RELOCATION ORDER USH 63 SPOONER - HAYWARD (CTH M - VERMONT AVENUE) WASHBURN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC# 363494
Certified, Filed, and/or Recorded on: June 30, 2014 8:00 AM
DIANE PORCH
WASHBURN CO REGISTER OF DEEDS
SHELL LAKE WI 54871
Fee Amount: $25.00
Total Pages: 1
Env. 227A

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1560-30-20-4.03
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
2	HALINA MAZEK	FEE/TLE	0.083	---	0.083	0.012
3	PATRICK L. MOLITOR	FEE/TLE	0.087	---	0.087	0.027
4	MAURICE SPILKY, TRUSTEE FOR GAIL C. SPILKY, MYRNA SPILKY & LEE S. SPILKY	TLE	---	---	---	0.019

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
CTH F		
300	12+00.00	0.83
301	12+00.00	0.00
302	12+00.00	-32.17
PRW303	20+43.82	-33.19
PRW304	21+81.44	-27.40
305	21+89.16	0.00
306	21+90.24	4.55
307	21+96.66	36.78
308	21+57.23	51.66
USH 63		
309	371+75.50	-40.00
310	374+00.00	-40.00
311	374+00.00	0.00
312	370+99.40	0.00
313	367+97.35	0.00
314	367+97.35	-40.00
PRW315	368+80.28	-40.00
TRANUS LAKE RD		
PRW316	14+95.56	54.58
PRW317	14+72.54	40.00
CTH F		
PRW318	12+95.89	33.31
319	12+00.00	33.83

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE350	368+39.07	-40.00
TLE351	368+88.69	-45.64
TLE352	13+18.71	38.19
TLE353	12+29.11	38.67
TLE354	12+29.08	33.67
TLE355	12+28.73	-32.33
TLE356	12+28.68	-40.33
TLE357	13+24.68	-40.85
TLE358	13+24.73	-32.85
TLE359	20+41.85	-36.14
TLE360	21+87.58	-28.81
TLE361	371+70.81	-48.00
TLE362	373+00.00	-46.00
TLE363	373+00.00	-40.00

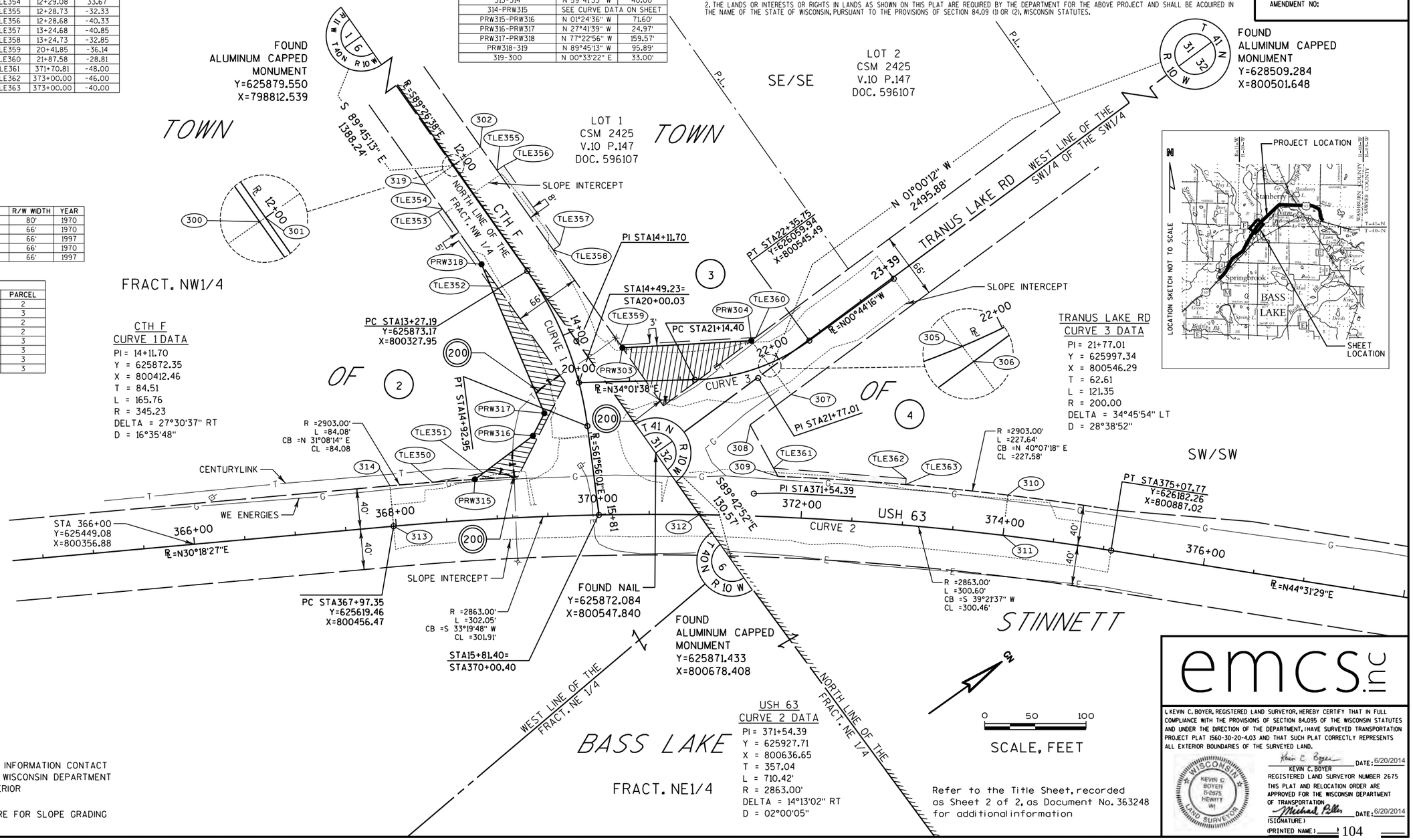
UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	CENTURYLINK	RELEASE OF RIGHTS
204	BARRON ELECTRIC COOPERATIVE	RELEASE OF RIGHTS

COURSE TABLE		
COURSE	BEARING	DISTANCE
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301-302	N 00°33'22" E	32.17'
302-PRW303	S 89°45'13" E	243.17'
PRW303-PRW304	N 32°18'47" E	127.41'
PRW304-305	N 88°59'48" E	28.32'
305-306	N 88°59'48" E	4.68'
306-307	N 88°59'48" E	33.00'
307-308	S 01°00'12" E	50.29'
308-309	S 82°55'36" E	57.91'
309-310	SEE CURVE DATA ON SHEET	
310-311	S 47°37'55" E	40.00'
311-312	SEE CURVE DATA ON SHEET	
312-313	SEE CURVE DATA ON SHEET	
313-314	N 59°41'33" W	40.00'
314-PRW315	SEE CURVE DATA ON SHEET	
PRW315-PRW316	N 01°24'36" W	71.60'
PRW316-PRW317	N 27°41'39" W	24.97'
PRW317-PRW318	N 77°22'56" W	159.57'
PRW318-319	N 89°45'13" W	95.89'
319-300	N 00°33'22" E	33.00'

HIGHWAY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 63	1565-1-21	80'	1970
CTH F	1565-1-21	66'	1970
CTH F	CSM 2425	66'	1997
TRANUS LAKE RD	1565-1-21	66'	1970
TRANUS LAKE RD	CSM 2425	66'	1997

UTILITY EASEMENT INFORMATION		
UTILITY	RECORDING INFORMATION	PARCEL
200	DOC. 142108	2
200	NONE FOUND	3
204	DOC. 224441	2
204	DOC. 236055	2
204	DOC. 220540	3
204	DOC. 231555	3
204	DOC. 175897	3
204	DOC. 198777	3



CTH F CURVE 1 DATA
PI = 14+11.70
Y = 625872.35
X = 800412.46
T = 84.51
L = 165.76
R = 345.23
DELTA = 27°30'37" RT
D = 16°35'48"

TRANUS LAKE RD CURVE 3 DATA
PI = 21+77.01
Y = 625997.34
X = 800546.29
T = 62.61
L = 121.35
R = 200.00
DELTA = 34°45'54" LT
D = 28°38'52"

USH 63 CURVE 2 DATA
PI = 371+54.39
Y = 625927.71
X = 800636.65
T = 357.04
L = 710.42'
R = 2863.00'
DELTA = 14°13'02" RT
D = 02°00'05"

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SUPERIOR

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

Refer to the Title Sheet, recorded as Sheet 2 of 2, as Document No. 363248 for additional information

emcs.LLC

I, KEVIN C. BOYER, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1560-30-20-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 6/20/2014
KEVIN C. BOYER
REGISTERED LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
(SIGNATURE) Michael Pilon DATE: 6/20/2014
(PRINTED NAME) 104

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

COMPOSITE DRAWING, ORIGINAL ON FILE IN THE WASHBURN COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1560-30-20 - 4.04

THAT PART OF THE SE 1/4 OF THE SE 1/4 OF SECTION 28, ALL BEING LOCATED IN TOWNSHIP 41 NORTH, RANGE 10 WEST, TOWN OF STINNETT, WASHBURN COUNTY, WISCONSIN.

RELOCATION ORDER USH 63 SPOONER - HAYWARD (CTH M - VERMONT AVENUE) WASHBURN COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC# 363495
Certified, Filed, and/or Recorded on: June 30, 2014 8:00 AM
DIANE POACH
WASHBURN CO REGISTER OF DEEDS
SHELL LAKE WI 54871
Fee Amount: $25.00
Total Pages: 1
Env. 2278

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1560-30-20-4.04
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

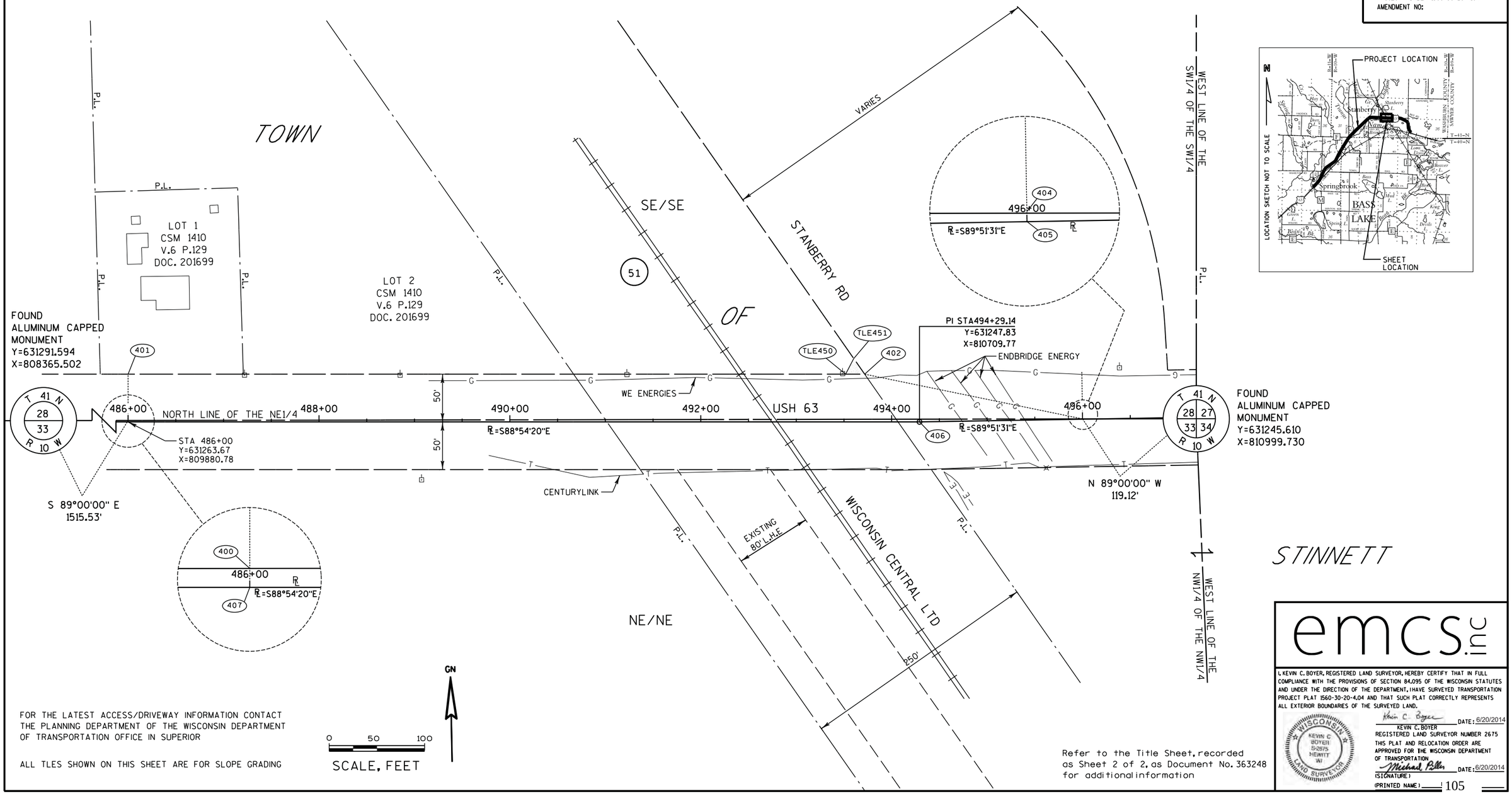
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
51	WISCONSIN CENTRAL LTD	TLE	---	---	---	0.004

HIGHWAY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 63	1565-1-21	100'	1970
USH 63	CSM 1410	100'	1987

TLE STATION-OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE450	493+51.72	-50.00
TLE451	493+60.26	-66.39

COURSE TABLE		
COURSE	BEARING	DISTANCE
S 1/4 SEC.28-400	S 89°00'00" E	1515.53'
400-401	N 01°05'40" E	48.53'
401-402	S 88°54'20" E	771.72'
402-404	S 77°17'58" E	233.02'
404-405	S 00°08'29" W	0.28'
405-406	N 89°51'31" W	170.86'
406-407	N 88°54'20" W	829.14'
407-400	N 01°05'40" E	1.47'

STATION-OFFSET TABLE		
POINT NO.	STATION	OFFSET
400	486+00.00	-1.47
401	486+00.00	-50.00
402	493+71.72	-50.00
404	496+00.00	-0.28
405	496+00.00	0.00
406	494+29.14	0.00
407	486+00.00	0.00



FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SUPERIOR

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

0 50 100
SCALE, FEET

GN

Refer to the Title Sheet, recorded as Sheet 2 of 2, as Document No. 363248 for additional information

emcs.inc

I, KEVIN C. BOYER, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1560-30-20-4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 6/20/2014
KEVIN C. BOYER
REGISTERED LAND SURVEYOR NUMBER 2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

Michael P. Miller DATE: 6/20/2014
(SIGNATURE)
(PRINTED NAME)

FILE NAME : P:\48xx\4821.4699W035.SP.13.USH63.SAW\CADDS\Plan\TPP\Washburn County\040104_rp.dgn
PLOT DATE : 6/20/2014 PLOT BY : bjl PLOT NAME : PLOT SCALE : 1:50
APPRAISAL PLAT DATE :

1560-30-20 4.04

COMPOSITE DRAWING, ORIGINAL ON FILE IN THE SAWYER COUNTY REGISTER OF DEEDS OFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

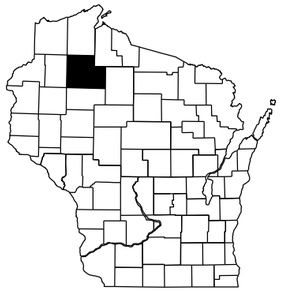
TRANSPORTATION PROJECT PLAT TITLE SHEET

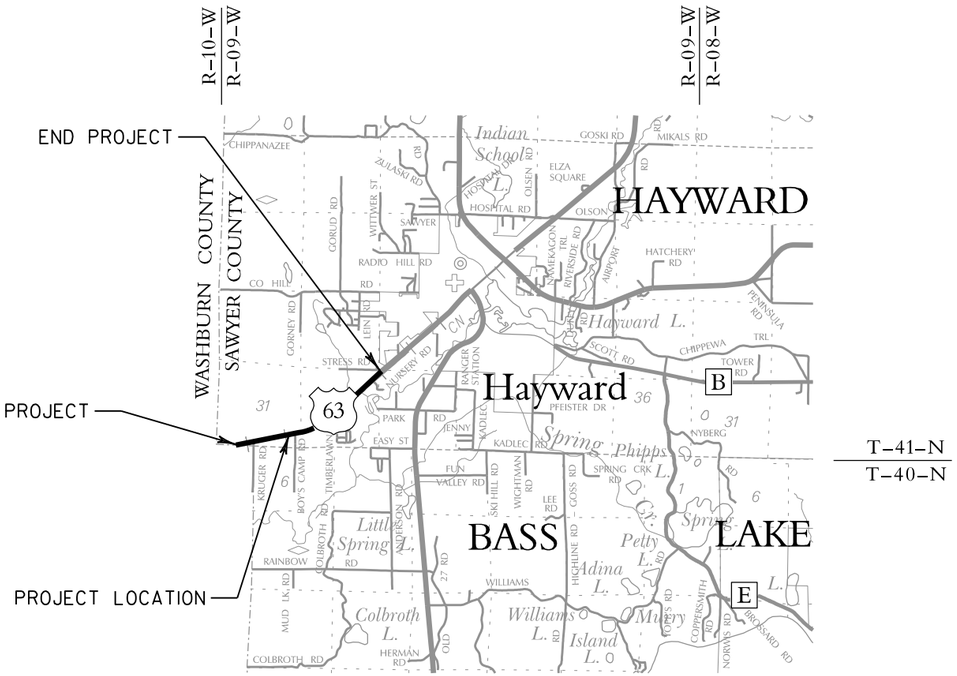
PROJECT NO. 1560-30-20

CTH M TO VERMONT AVE

USH 63

SAWYER COUNTY





T-41-N
T-40-N

N

LAYOUT
SCALE 0 1 MI.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, SAWYER COUNTY, NAD83(1991) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES

COORDINATES AS SHOWN ARE NOT INTENDED TO BE USED FOR RETRACEMENT PURPOSES AND MUST BE VERIFIED WITH THE COUNTY SURVEY DEPARTMENT

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

RIGHT OF WAY REFERENCE LINE MAY NOT BE THE SAME AS THE CONSTRUCTION REFERENCE LINE

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR US 63 ESTABLISHED FROM PREVIOUS PROJECTS 1565-2-21, T011-2(43), CSM3663, CSM 5546, AND CSM3028.
EXISTING HIGHWAY RIGHT-OF-WAY FOR SIDE ROADS ESTABLISHED FROM CENTERLINE OF EXISTING PAVEMENTS.
EXISTING ACCESS CONTROL ALONG US 63 ESTABLISHED FROM PREVIOUS PROJECTS 1560-15-29.

A **TEMPORARY LIMITED EASEMENT** (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLES EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTEREST TO DEPARTMENT OF TRANSPORTATION

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGIONAL OFFICE

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	LP (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	•(SET)	PROPERTY LINE	
R/W STANDARD	▲(SET)	LOT & TIE LINES	
SIGN	ISIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT		QUARTER LINE	
PARCEL NUMBER	RWB20	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	102	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	92	PROPOSED REFERENCE LINE	
BUILDING	21-1	PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1560-30-20 - 4.05
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : P:\48xx\4821.4699WO35.SP.13.USH63.SAW\CADDS\Plan\TPP\Sawyer County\040100_rp_Title.dgn
PLOT DATE : 6/25/2014
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:200

1560-30-20 4.05

COMPOSITE DRAWING, ORIGINAL ON FILE IN THE SAWYER COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1560-30-20 - 4.05

THAT PART OF THE SE 1/4 OF THE SW 1/4 OF SECTION 31, ALL BEING LOCATED IN TOWNSHIP 41 NORTH, RANGE 9 WEST, TOWN OF HAYWARD, SAWYER COUNTY, WISCONSIN.

RELOCATION ORDER USH 63 SPOONER - HAYWARD (CTH M - VERMONT AVENUE) SAWYER COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

390848
PAULA CHISSER
REGISTER OF DEEDS SAWYER COUNTY, WI
06/16/2014 10:10AM
REC FEE: 25.00
PAGES 2

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1560-30-20-4.05
AMENDMENT NO:
SHEET 1 OF 2

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

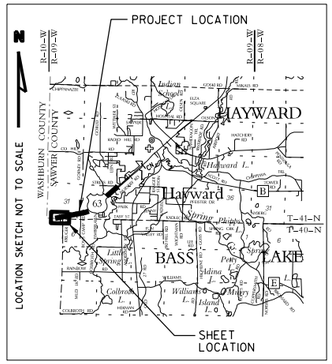
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
52	WISCONSIN CENTRAL LTD	TLE	---	---	---	0.175

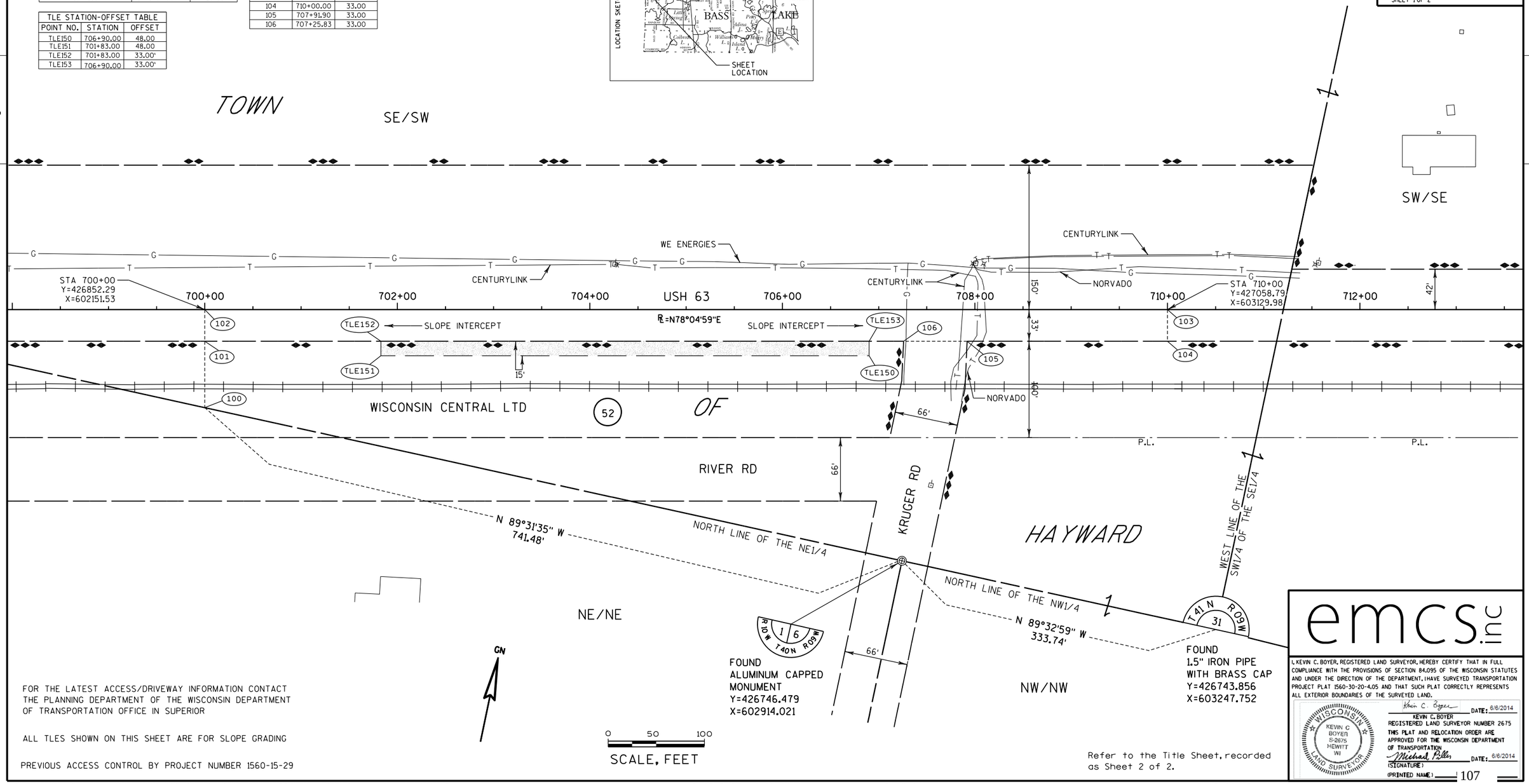
COURSE TABLE		
COURSE	BEARING	DISTANCE
NE 1/4 SEC.1 -100	N 89°31'53" W	741.48'
100-101	N 11°55'01" W	68.88'
101-102	N 11°55'01" W	33.00'
102-103	N 78°04'59" E	1000.00'
103-104	S 11°55'01" E	33.00'
104-105	S 78°04'59" W	208.10'
105-106	S 78°04'59" W	66.07'
106-101	S 78°04'59" W	725.83'

TLE STATION-OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE150	706+90.00	48.00
TLE151	701+83.00	48.00
TLE152	701+83.00	33.00'
TLE153	706+90.00	33.00'

HIGHWAY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 63	1565-2-21	VARIES	1970

STATION-OFFSET TABLE		
POINT NO.	STATION	OFFSET
100	700+00.00	101.88
101	700+00.00	33.00
102	700+00.00	0.00
103	710+00.00	0.00
104	710+00.00	33.00
105	707+91.90	33.00
106	707+25.83	33.00





FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SUPERIOR

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

PREVIOUS ACCESS CONTROL BY PROJECT NUMBER 1560-15-29

Refer to the Title Sheet, recorded as Sheet 2 of 2.

emcs.inc

I, KEVIN C. BOYER, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1560-30-20-4.05 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

Kevin C. Boyer DATE: 6/6/2014
KEVIN C. BOYER
REGISTERED LAND SURVEYOR NUMBER 2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

Michael Fuller DATE: 6/6/2014
(SIGNATURE)
(PRINTED NAME)

FILE NAME : P:\48xx\4821.4699W035.SP.13.USH63.SAW\CADDS\Plan\TPP\Sawyer County\040105_rp .dgn
APPRAISAL PLAT DATE :
PLOT DATE : 6/25/2014
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

1560-30-20 4.05

COMPOSITE DRAWING, ORIGINAL ON FILE IN THE SAWYER COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1560-30-20 - 4.06

THAT PART OF THE SW 1/4 OF THE SW 1/4 OF SECTION 32, ALL BEING LOCATED IN TOWNSHIP 41 NORTH, RANGE 9 WEST, TOWN OF HAYWARD, SAWYER COUNTY, WISCONSIN.

RELOCATION ORDER USH 63 SPOONER - HAYWARD (CTH M - VERMONT AVENUE) SAWYER COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

390948
PAULA CHISSER
REGISTER OF DEEDS DAWYER COUNTY, WI
6/23/2014 9:10AM
REC FEE: 25.00
PAGES 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1560-30-20-4.06
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
52	WISCONSIN CENTRAL LTD	TLE	---	---	---	0.219

COURSE TABLE		
COURSE	BEARING	DISTANCE
SW1/4 SEC.32-200	N 00°37'16" E	971.92'
200-201	N 00°37'16" E	33.81'
201-202	N 78°04'59" E	326.72'
202-203	SEE CURVE DATA ON SHEET	
203-204	SEE CURVE DATA ON SHEET	
204-205	S 32°51'44" E	33.00'
205-206	SEE CURVE DATA ON SHEET	
206-207	SEE CURVE DATA ON SHEET	
207-200	S 78°04'59" W	334.06'

HIGHWAY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 63	1565-2-21	84'	1970

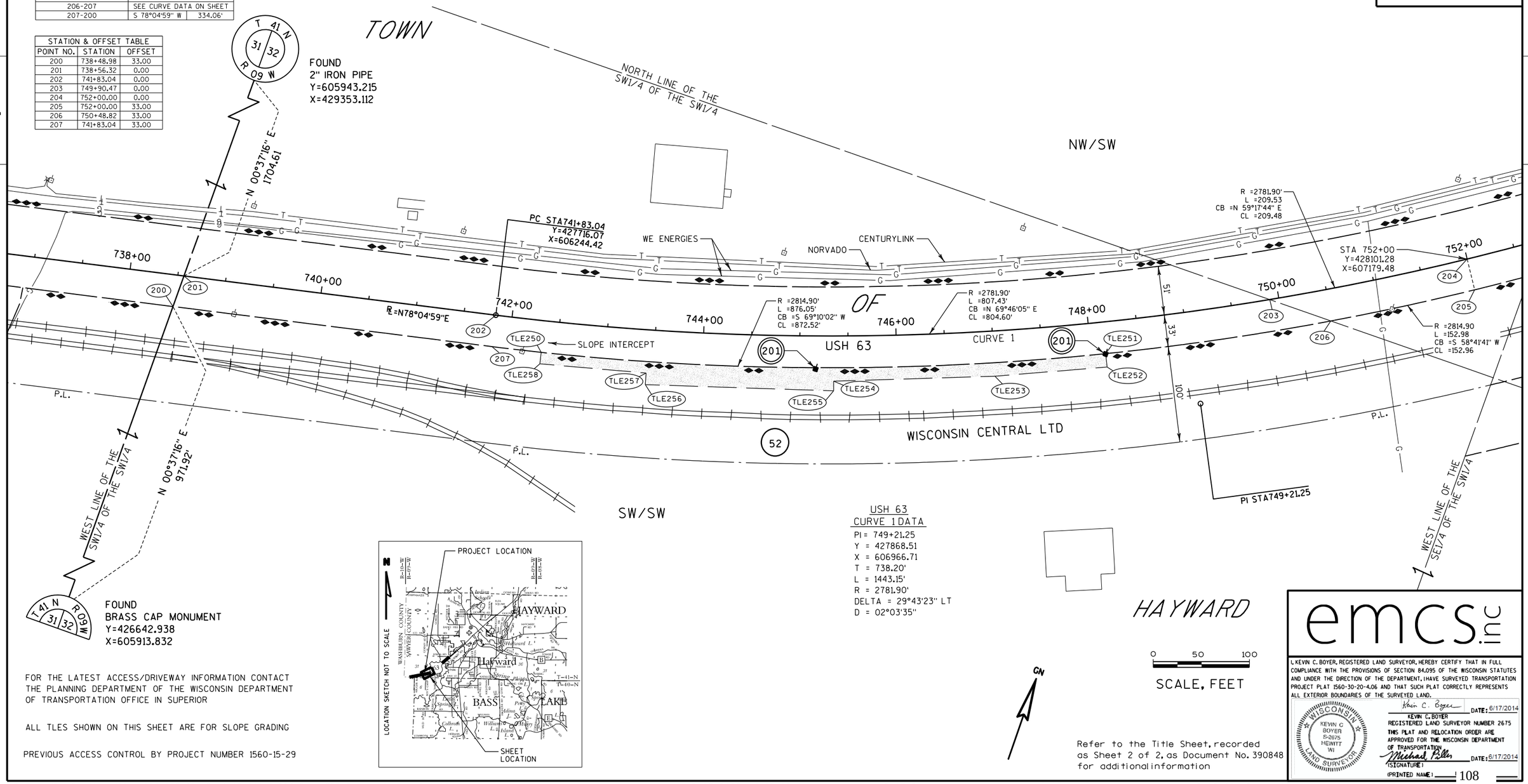
TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE250	742+34.00	33.00
TLE251	748+15.00	33.00
TLE252	748+15.00	47.00
TLE253	747+00.00	47.00
TLE254	745+35.00	47.00
TLE255	745+35.00	57.00
TLE256	743+43.00	57.00
TLE257	743+43.00	45.00
TLE258	742+34.00	45.00

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
201	DAIRYLAND POWER COOPERATIVE	RELEASE OF RIGHTS

UTILITY EASEMENT INFORMATION		
UTILITY	RECORDING INFORMATION	PARCEL
201	NONE FOUND	52

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
200	738+48.98	33.00
201	738+56.32	0.00
202	741+83.04	0.00
203	749+90.47	0.00
204	752+00.00	0.00
205	752+00.00	33.00
206	750+48.82	33.00
207	741+83.04	33.00



FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SUPERIOR

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

PREVIOUS ACCESS CONTROL BY PROJECT NUMBER 1560-15-29

USH 63
CURVE 1 DATA
PI = 749+21.25
Y = 427868.51
X = 606966.71
T = 738.20'
L = 1443.15'
R = 2781.90'
DELTA = 29°43'23" LT
D = 02°03'35"

HAYWARD

0 50 100
SCALE, FEET

GN

Refer to the Title Sheet, recorded as Sheet 2 of 2, as Document No. 390848 for additional information

emcs.inc

I, KEVIN C. BOYER, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1560-30-20-4.06 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 6/17/2014
KEVIN C. BOYER
REGISTERED LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
(SIGNATURE) DATE: 6/17/2014
(PRINTED NAME) 108

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

FILE NAME : P:\48xx\4821.4699W035.SP.13.USH63.SAW\CADDS\Plan\TPP\Sawyer County\040106_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 6/25/2014
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

1560-30-20 4.06

COMPOSITE DRAWING, ORIGINAL ON FILE IN THE SAWYER COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1560-30-20 - 4.07

THAT PART OF THE NE 1/4 OF THE SW 1/4 OF SECTION 32, TOWNSHIP 41 NORTH, RANGE 9 WEST, ALL BEING LOCATED IN THE TOWN OF HAYWARD, SAWYER COUNTY, WISCONSIN.

RELOCATION ORDER USH 63 SPOONER - HAYWARD (CTH M - VERMONT AVENUE) SAWYER COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
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2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

390949
PAULA CHISSER
REGISTER OF DEEDS DAWYER COUNTY, WI
6/23/2014 9:10AM
REC FEE: 25.00
PAGES 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1560-30-20-4.07
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
53	SAWYER COUNTY, WISCONSIN	TLE	---	---	---	0.133

HIGHWAY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 63	1565-2-21	VARIES	1970

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
201	DAIRYLAND POWER COOPERATIVE	RELEASE OF RIGHTS

UTILITY EASEMENT INFORMATION

UTILITY	RECORDING INFORMATION	PARCEL
201	NONE FOUND	53

COURSE TABLE

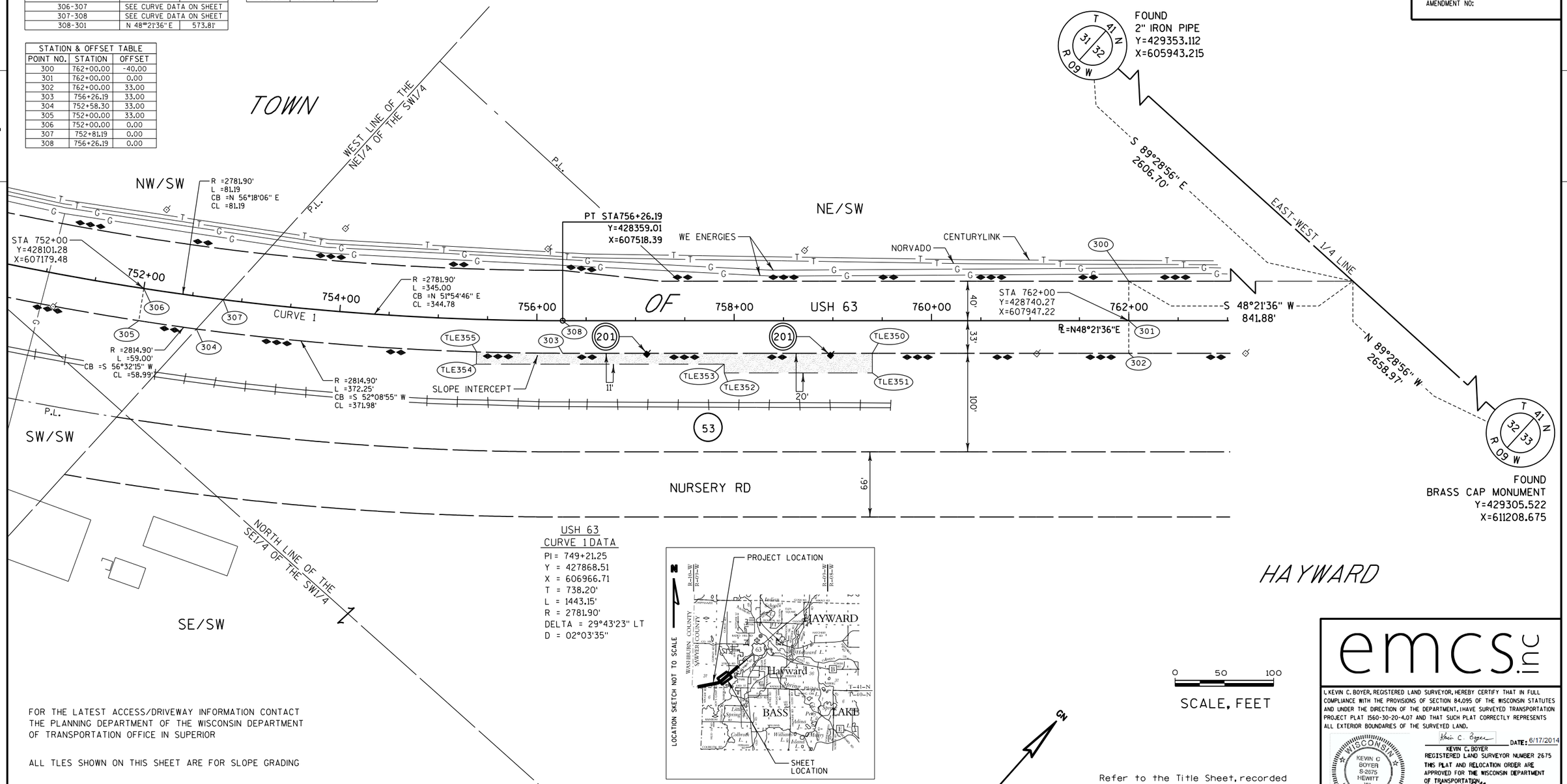
COURSE	BEARING	DISTANCE
300-301	S 41°38'24" E	40.00'
301-302	S 41°38'24" E	33.00'
302-303	S 48°21'36" W	573.81'
303-304	SEE CURVE DATA ON SHEET	
304-305	SEE CURVE DATA ON SHEET	
305-306	N 32°51'44" W	33.00'
306-307	SEE CURVE DATA ON SHEET	
307-308	SEE CURVE DATA ON SHEET	
308-301	N 48°21'36" E	573.81'

TLE STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
TLE350	759+40.00	33.00
TLE351	759+40.00	53.00
TLE352	757+90.00	53.00
TLE353	757+90.00	44.00
TLE354	755+40.00	45.36
TLE355	755+40.00	33.00

STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
300	762+00.00	-40.00
301	762+00.00	0.00
302	762+00.00	33.00
303	756+26.19	33.00
304	752+58.30	33.00
305	752+00.00	33.00
306	752+00.00	0.00
307	752+81.19	0.00
308	756+26.19	0.00



USH 63
CURVE 1 DATA
PI = 749+21.25
Y = 427868.51
X = 606966.71
T = 738.20'
L = 1443.15'
R = 2781.90'
DELTA = 29°43'23" LT
D = 02°03'35"

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SUPERIOR

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

PREVIOUS ACCESS CONTROL BY PROJECT NUMBER 1560-15-29

0 50 100
SCALE, FEET

Refer to the Title Sheet, recorded as Sheet 2 of 2, as Document No. 390848 for additional information

emcs.llc

I, KEVIN C. BOYER, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1560-30-20-4.07 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

Kevin C. Boyer DATE: 6/17/2014
KEVIN C. BOYER
REGISTERED LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) DATE: 6/17/2014
(PRINTED NAME) 109

WISCONSIN LAND SURVEYOR — KEVIN C BOYER S-2675 HEWITT WI

COMPOSITE DRAWING, ORIGINAL ON FILE IN THE SAWYER COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1560-30-20 - 4.08

THAT PART OF THE SE 1/4 OF THE SW 1/4 AND THAT PART OF THE NE 1/4 OF THE SW 1/4 OF SECTION 28, ALL BEING LOCATED IN TOWNSHIP 41 NORTH, RANGE 9 WEST, TOWN OF HAYWARD, SAWYER COUNTY, WISCONSIN.

RELOCATION ORDER USH 63 SPOONER - HAYWARD (CTH M - VERMONT AVENUE) SAWYER COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

390950
PAULA CHISSER
REGISTER OF DEEDS DAWYER COUNTY, WI
6/23/2014 9:10AM
REC FEE: 25.00
PAGES 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1560-30-20-4.08
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	R/W ACRES REQUIRED EXISTING	R/W ACRES REQUIRED TOTAL	TLE ACRES
54	CITY OF HAYWARD	TLE	---	---	---	0.175

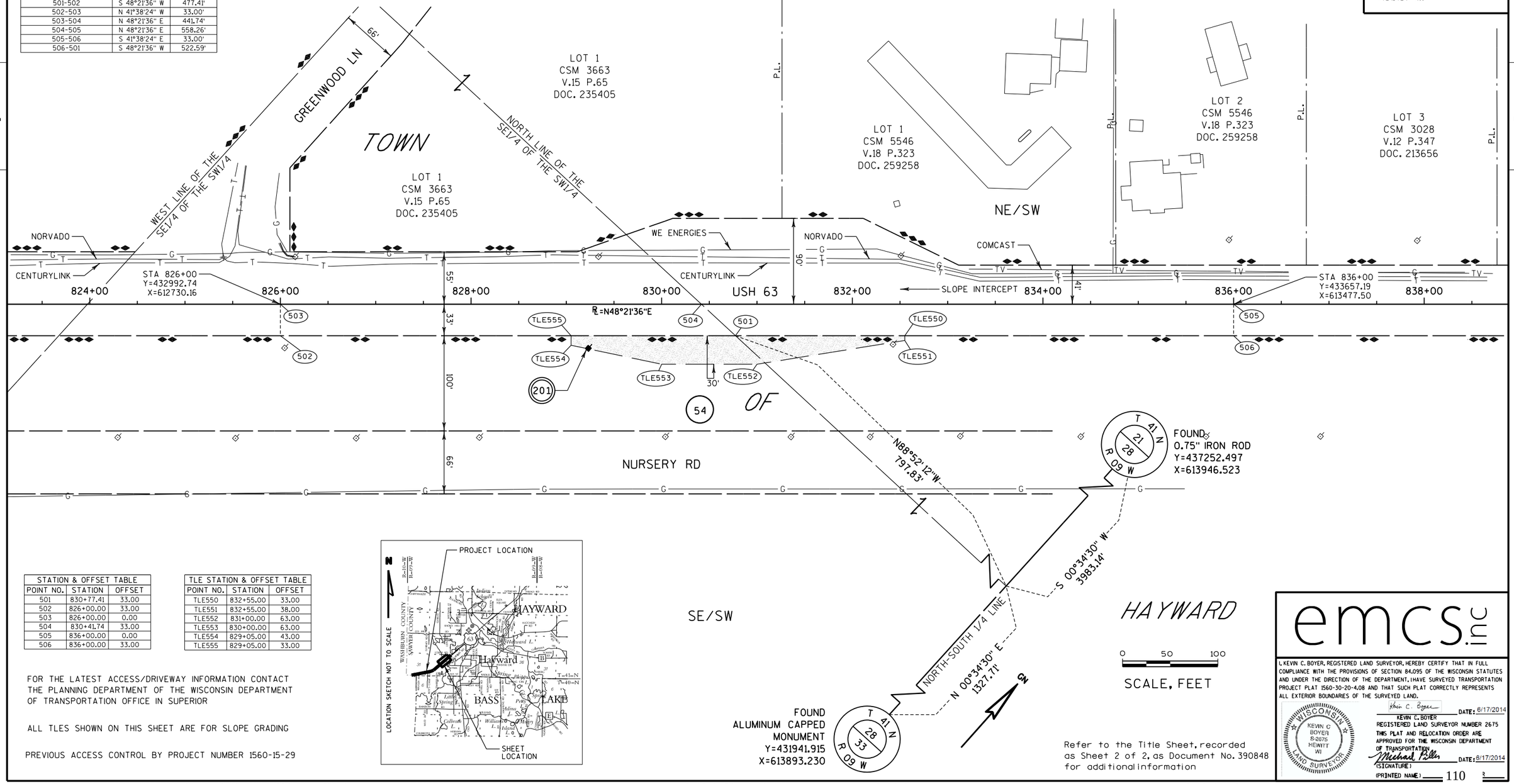
UTILITY EASEMENT INFORMATION		
UTILITY	RECORDING INFORMATION	PARCEL
201	NONE FOUND	54

HIGHWAY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 63	1565-2-21	VARIES	1970
USH 63	CSM 3663	VARIES	1993
USH 63	CSM 5546	VARIES	1997
USH 63	CSM 3028	41'	1989

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
201	DAIRYLAND POWER COOPERATIVE	RELEASE OF RIGHTS

COURSE TABLE		
COURSE	BEARING	DISTANCE
501-502	S 48°21'36" W	477.41'
502-503	N 41°38'24" W	33.00'
503-504	N 48°21'36" E	441.74'
504-505	N 48°21'36" E	558.26'
505-506	S 41°38'24" E	33.00'
506-501	S 48°21'36" W	522.59'



STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
501	830+77.41	33.00
502	826+00.00	33.00
503	826+00.00	0.00
504	830+41.74	33.00
505	836+00.00	0.00
506	836+00.00	33.00

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE550	832+55.00	33.00
TLE551	832+55.00	38.00
TLE552	831+00.00	63.00
TLE553	830+00.00	63.00
TLE554	829+05.00	43.00
TLE555	829+05.00	33.00

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SUPERIOR

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

PREVIOUS ACCESS CONTROL BY PROJECT NUMBER 1560-15-29

Refer to the Title Sheet, recorded as Sheet 2 of 2, as Document No. 390848 for additional information

emcs, LLC

I, KEVIN C. BOYER, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1560-30-20-4.08 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

Kevin C. Boyer DATE: 6/17/2014
KEVIN C. BOYER
REGISTERED LAND SURVEYOR NUMBER 2675
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION
Michael Pallin DATE: 8/17/2014
(SIGNATURE)
(PRINTED NAME) 110

FILE NAME : P:\48xx\4821.4699W035.SP.13.USH63.SAW\CADDS\Plan\TPP\Sawyer County\040108_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 6/25/2014
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

1560-30-20 4.08

COMPOSITE DRAWING, ORIGINAL ON FILE IN THE SAWYER COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 1560-30-20 - 4.09

THAT PART OF THE SW 1/4 OF THE NE 1/4 AND THAT PART OF THE SE 1/4 OF THE NE 1/4 OF SECTION 28, ALL BEING LOCATED IN TOWNSHIP 41 NORTH, RANGE 9 WEST, TOWN OF HAYWARD, SAWYER COUNTY, WISCONSIN.

RELOCATION ORDER USH 63 SPOONER - HAYWARD (CTH M - VERMONT AVENUE) SAWYER COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
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2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
54	CITY OF HAYWARD	TLE	---	---	---	0.074

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
601	870+15.47	0.00
602	870+63.35	52.72
603	859+58.24	33.00
604	857+00.00	33.00
605	857+00.00	0.00
606	859+88.14	0.00
607	867+30.03	0.00

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE653	860+85.00	33.00
TLE654	860+85.00	43.00
TLE655	857+62.00	43.00
TLE656	857+62.00	33.00

FOUND
0.75" IRON ROD
Y=437252.497
X=613946.523

T 41 N
21 28
R 09 W

S 00°34'30" W
1327.71'

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	CENTURYLINK	RELEASE OF RIGHTS
201	DAIRYLAND POWER COOPERATIVE	RELEASE OF RIGHTS

UTILITY EASEMENT INFORMATION		
UTILITY	RECORDING INFORMATION	PARCEL
200	NONE FOUND	54
201	NONE FOUND	54

COURSE TABLE		
COURSE	BEARING	DISTANCE
601-602	N 89°40'10" E	71.51'
602-603	S 48°21'36" W	1110.47'
603-604	S 48°21'36" W	258.24'
604-605	N 41°38'24" W	33.00'
605-606	N 48°21'36" E	288.14'
606-607	N 48°21'36" E	741.89'
607-601	SEE CURVE DATA ON SHEET	

390951
PAULA CHISSER
REGISTER OF DEEDS DAWYER COUNTY, WI
6/23/2014 9:10AM
REC FEE: 25.00
PAGES 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1560-30-20-4.09
AMENDMENT NO:

N 00°34'30" E
3983.14'

NORTH-SOUTH 1/4 LINE

T 41 N
28 33
R 09 W

FOUND
ALUMINUM CAPPED
MONUMENT
Y=431941.915
X=613893.230

N 89°40'10" E
2087.04'

NORTH LINE OF THE SE1/4 OF THE NE1/4

WEST LINE OF THE SE1/4 OF THE NE1/4

TOWN

SW/NE

CENTURYLINK

COMCAST

WE ENERGIES

USH 63

PC STA867+30.03

R =2865.10'
L =285.44'
CB =S 45°30'21" W
CL =285.32

CURVE 1

PT STA871+00.51
Y=436000.28
X=616076.88

R=N40°57'05"E

R=N48°21'36"E

STA 858+00
Y=435118.97
X=615121.63

858+00 860+00 862+00 864+00 866+00 868+00 870+00 872+00

605 606 607 601 602

TLE656 TLE655 TLE653 TLE654

SLOPE INTERCEPT

201 200 54

10'

CENTURYLINK

NURSERY RD

RAILROAD ST

OF

PI STA869+15.53

SLOPE INTERCEPT

66'

HEINZ RD

66'

DYNO DR

SE/NE

LOT 1
CSM 6523
V.24 P.94
DOC.306509

LOT 1
CSM 6493
V.24 P.36
DOC. 303946

LOT 1
CSM 5715
V.19 P.295
DOC.266285

HAYWARD

USH 63
CURVE 1 DATA
PI = 869+15.53
Y = 435860.18
X = 615955.30
T = 185.50'
L = 370.47'
R = 2865.10'
DELTA = 07°24'31" LT
D = 01°59'59"

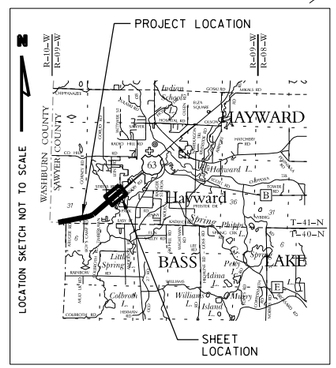
HIGHWAY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 63	1565-2-21	VARIES	1970
USH 63	T011-2 (43)	VARIES	2010

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN SUPERIOR

ALL TLES SHOWN ON THIS SHEET ARE FOR SLOPE GRADING

0 50 100
SCALE, FEET

Refer to the Title Sheet, recorded as Sheet 2 of 2, as Document No. 390848 for additional information



emcs.inc

I, KEVIN C. BOYER, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1560-30-20-4.09 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

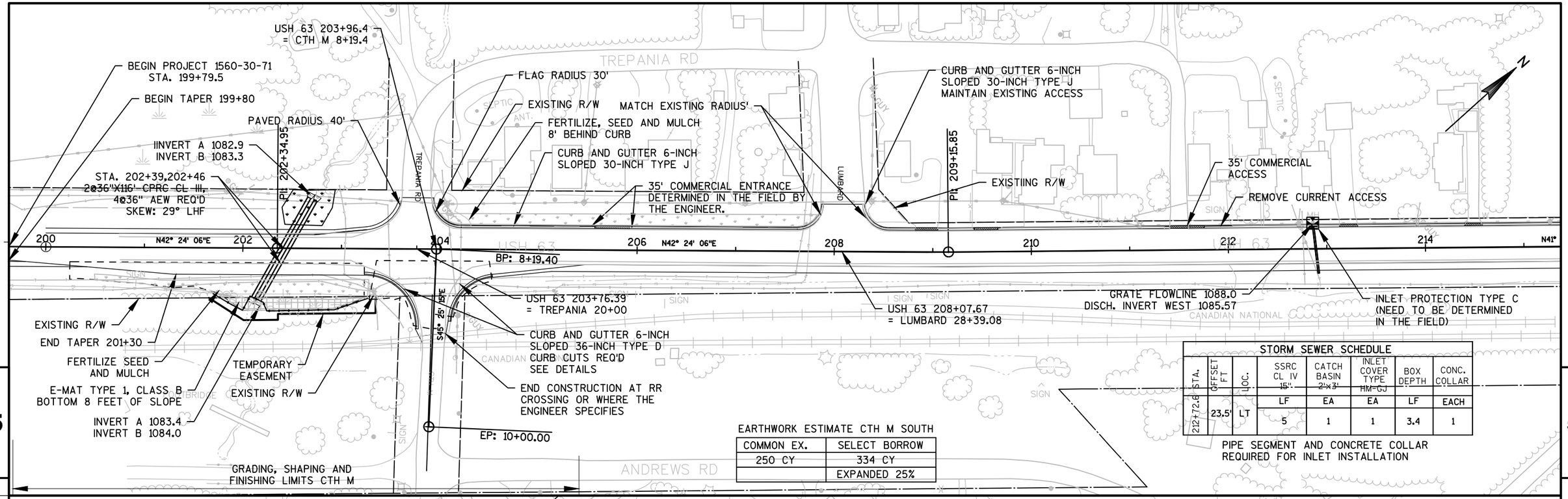
Kevin C. Boyer
KEVIN C. BOYER
REGISTERED LAND SURVEYOR NUMBER 2675
DATE: 6/17/2014

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

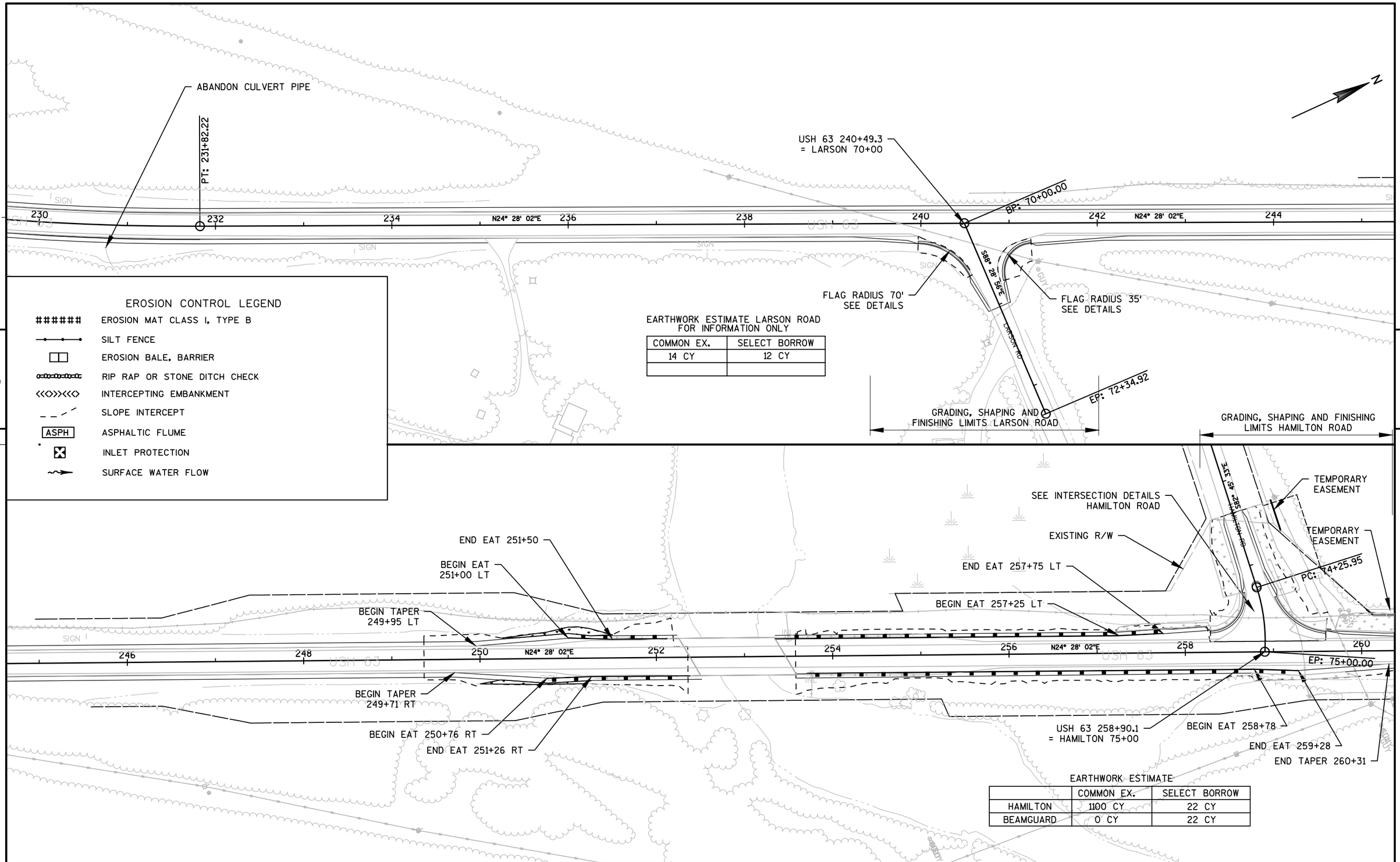
Michael Pitts
(SIGNATURE)
(PRINTED NAME) 111
DATE: 6/17/2014

FILE NAME : P:\48xx\4821.4699W035.SP.13.USH63.SAW\CADDS\Plan\TPP\Sawyer County\040109_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 6/25/2014
PLOT BY : kcb
PLOT NAME :
PLOT SCALE : 1:100

1560-30-20 4.09



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET 112	E



EROSION CONTROL LEGEND

######	EROSION MAT CLASS I, TYPE B
	SILT FENCE
	EROSION BALE, BARRIER
	RIP RAP OR STONE DITCH CHECK
	INTERCEPTING EMBANKMENT
	SLOPE INTERCEPT
ASPH	ASPHALTIC FLUME
	INLET PROTECTION
	SURFACE WATER FLOW

EARTHWORK ESTIMATE LARSON ROAD
FOR INFORMATION ONLY

COMMON EX.	SELECT BORROW
14 CY	12 CY

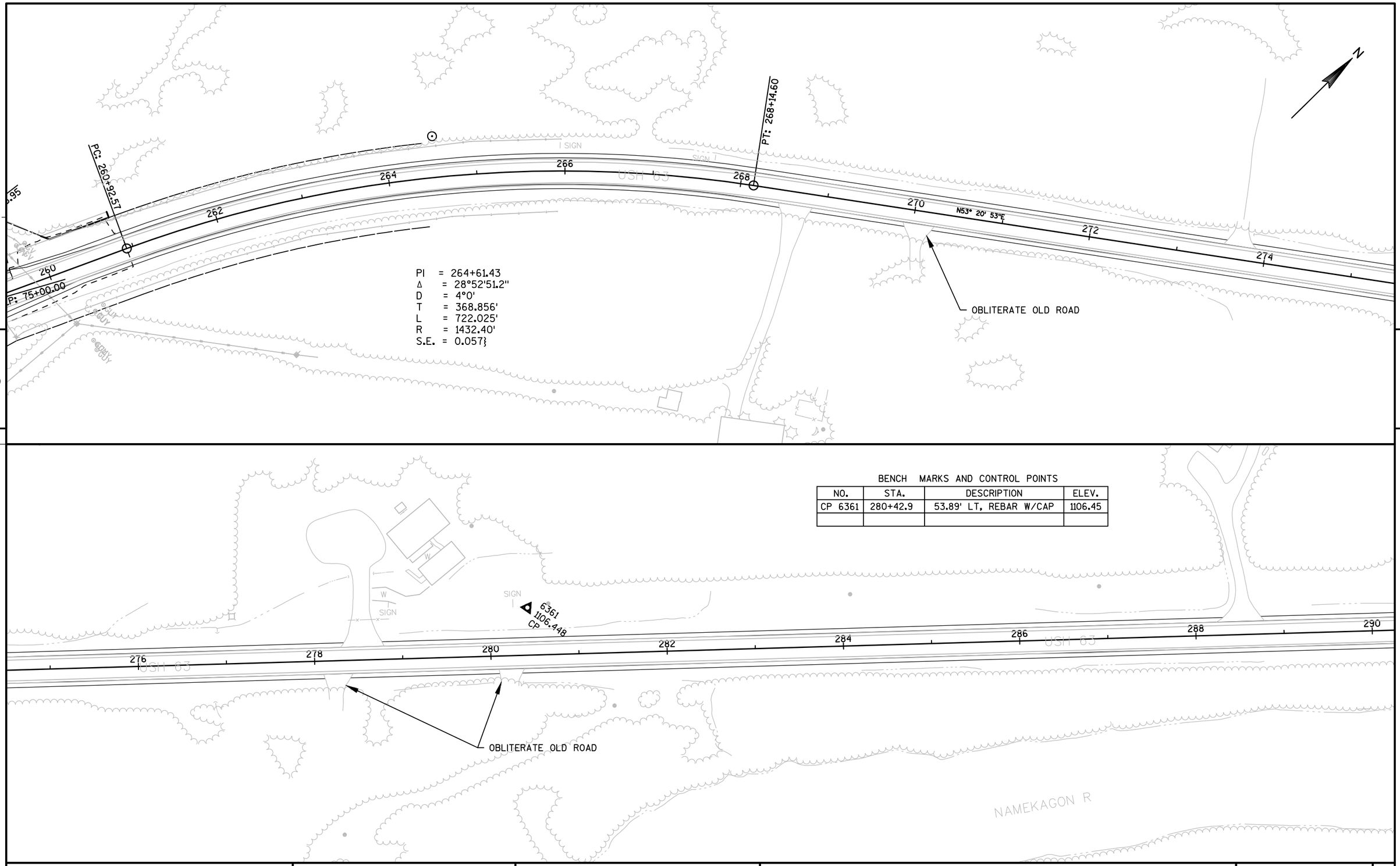
EARTHWORK ESTIMATE

	COMMON EX.	SELECT BORROW
HAMILTON	1100 CY	22 CY
BEAMGUARD	0 CY	22 CY

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET 113	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PLAN\PLAN DUAL 100 WASH.DWG PLOT DATE : 4/10/2015 8:29 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 44



BENCH MARKS AND CONTROL POINTS

NO.	STA.	DESCRIPTION	ELEV.
CP 6361	280+42.9	53.89' LT, REBAR W/CAP	1106.45

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET 114 E

PI = 297+90.28
Δ = 28°16'44.7"
D = 4°0"
T = 360.845'
L = 706.98'
R = 1432.40'
S.E. = 0.057}

PC: 294+29.44

PT: 301+36.42

290 292 294 296 298 300 302 304

USH 63

SIGN

N

5

5

BEGIN TAPER 303+45

END TAPER 310+45

304 306 308 310 312 314 316 318

N25° 04' 09"E

USH 63

USH 63

NAMEKAGON R

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PLAN\PLAN DUAL 100 WASH.DWG PLOT DATE : 4/10/2015 8:29 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 44

PI = 324+97.59
Δ = 5°14'18.6"
D = 1°0'
T = 262.095'
L = 523.825'
R = 5729.3'
S.E. = 0.024

PC: 322+35.49

PT: 327+59.32

320 322 324 326 328 330 332 334

N30° 18' 27"E

USH 63

BEGIN TAPER 320+37

END TAPER 322+24

CONSTRUCTION LIMIT OR AS THE ENGINEER DIRECTS

6362 CP 1129.242

CONSTRUCTION LIMIT OR AS THE ENGINEER DIRECTS

OMIT ANY WORK ON WAYSIDE PARKING AREA. OWNERSHIP TRANSFER PENDING.

OBLITERATE OLD ROAD

SIGN

BENCH MARKS AND CONTROL POINTS

NO.	STA.	DESCRIPTION	ELEV.
CP 6362	327+02.25	61.97' RT, REBAR W/CAP	1129.24

336 338 340 342 344 346 348 350

N30° 18' 27"E

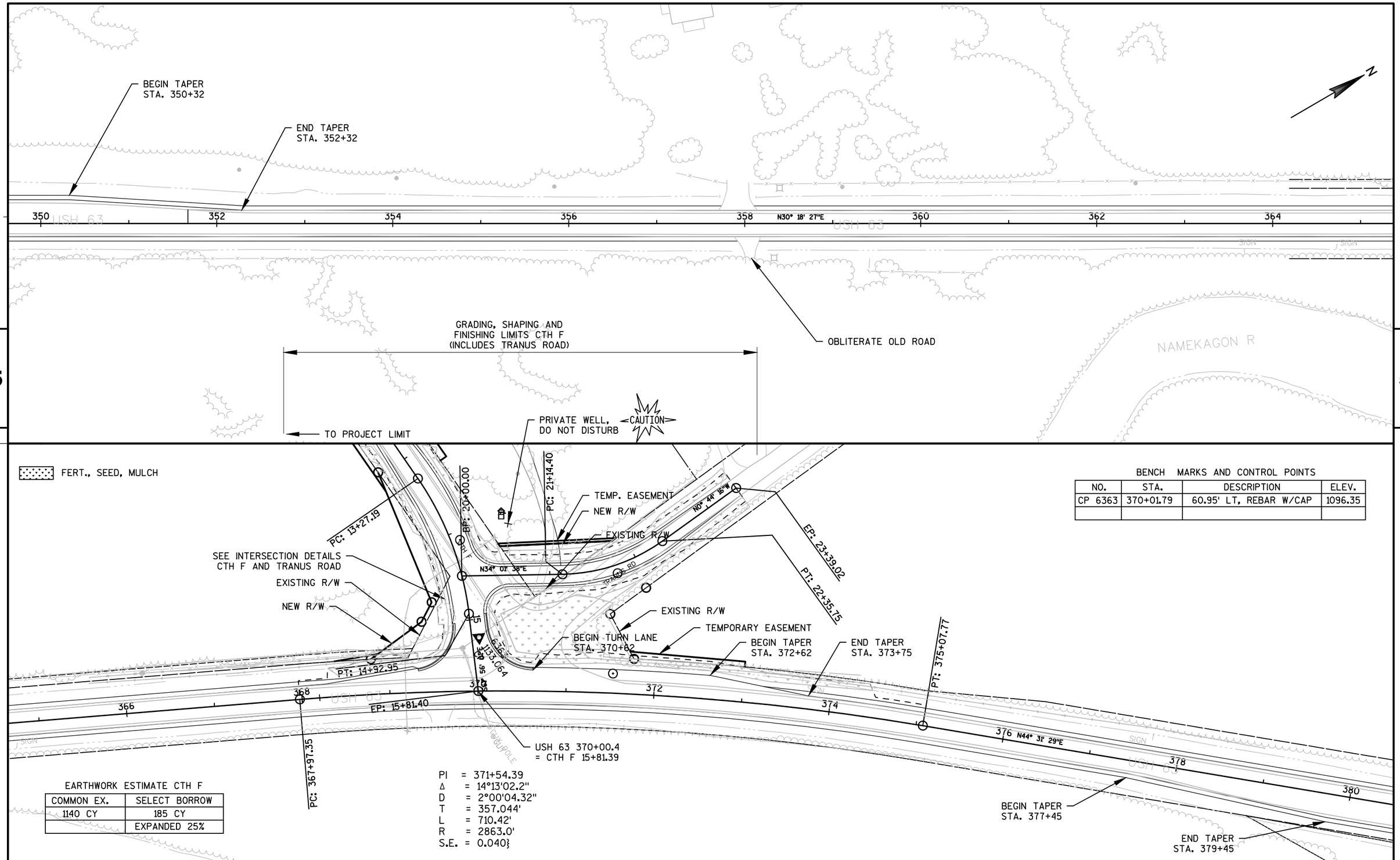
USH 63

OBLITERATE OLD ROAD

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET 116	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PLAN\PLAN DUAL 100 WASH.DWG PLOT DATE : 4/10/2015 8:30 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 44



5

5

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET 117	E

EROSION CONTROL LEGEND

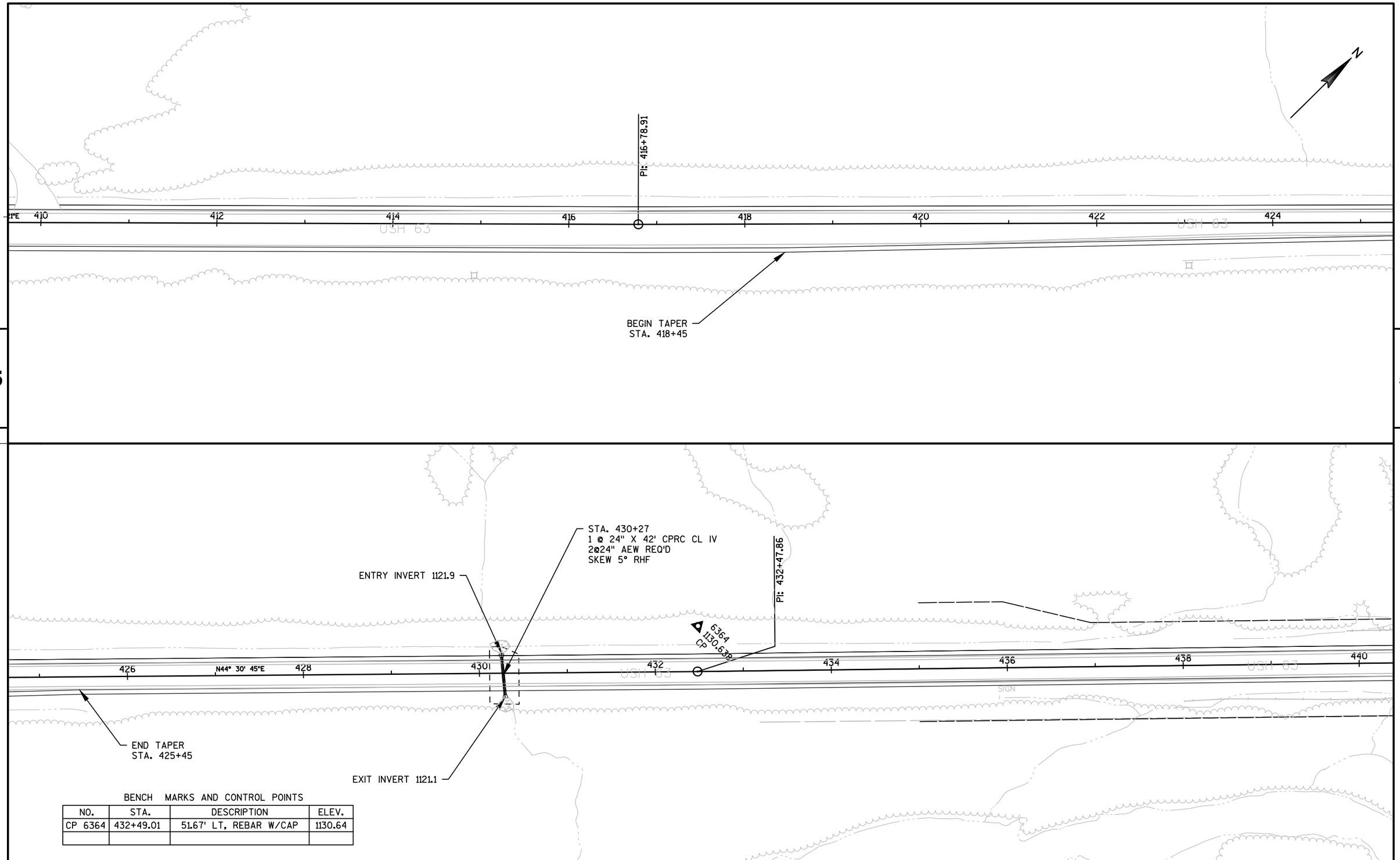
######	EROSION MAT CLASS I, TYPE B
—•—•—•—	SILT FENCE
□□	EROSION BALE, BARRIER
—□—□—□—	RIP RAP OR STONE DITCH CHECK
<<◇>>><<◇>	INTERCEPTING EMBANKMENT
_ _ _ /	SLOPE INTERCEPT
ASPH	ASPHALTIC FLUME
⊠	INLET PROTECTION
~→	SURFACE WATER FLOW

380 382 384 386 USH 63 388 390 392 394 N44° 31' 29"E

31' 29"E 396 398 PI: 398+99.69 400 402 404 406 408 N44° 49' 21"E 410

USH 63 USH 63 SIGN

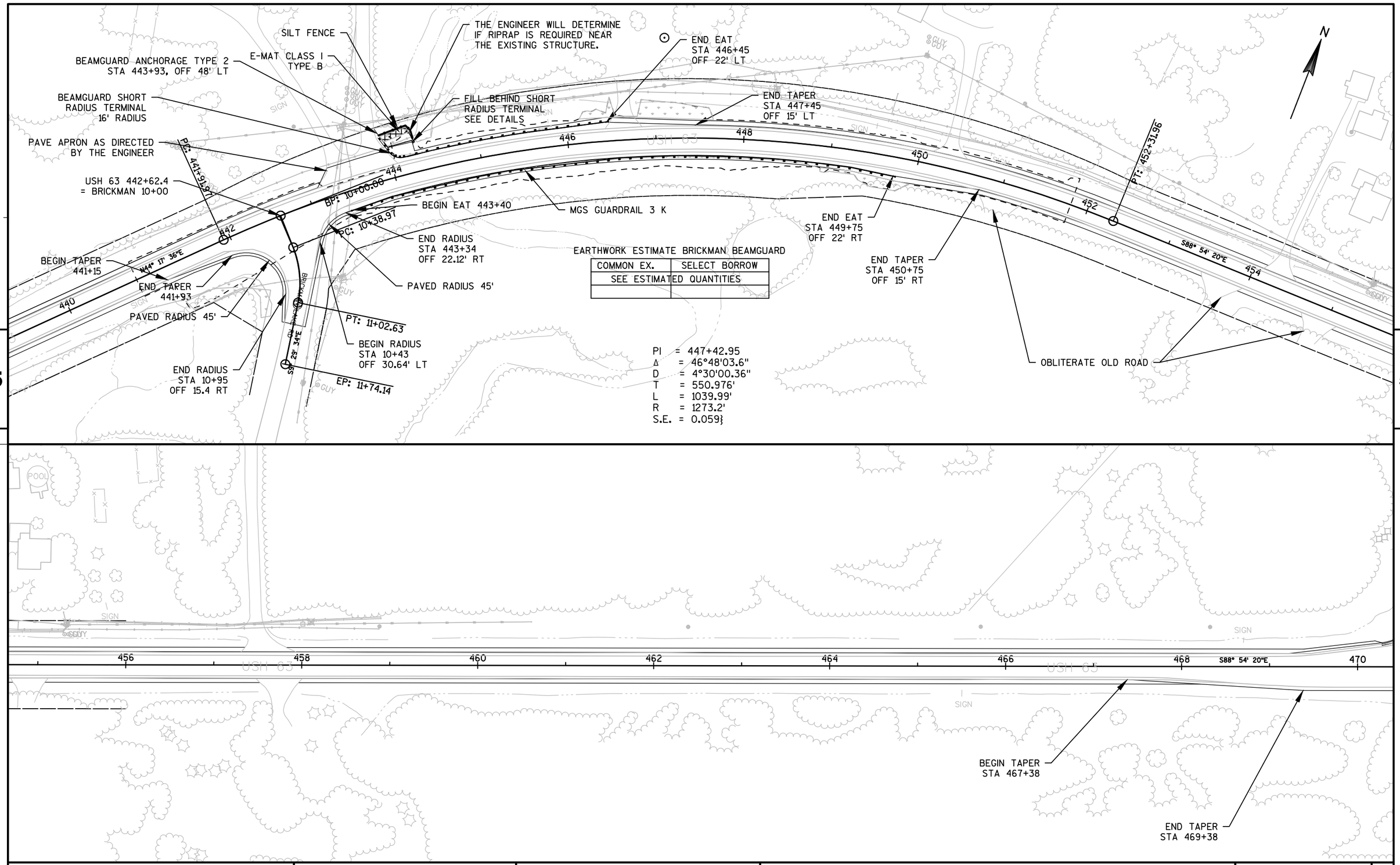
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET 118	E



BENCH MARKS AND CONTROL POINTS

NO.	STA.	DESCRIPTION	ELEV.
CP 6364	432+49.01	51.67' LT, REBAR W/CAP	1130.64

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET 119	E



EARTHWORK ESTIMATE BRICKMAN BEAMGUARD

COMMON EX.	SELECT BORROW
SEE ESTIMATED QUANTITIES	

PI = 447+42.95
Δ = 46°48'03.6"
D = 4°30'00.36"
T = 550.976'
L = 1039.99'
R = 1273.2'
S.E. = 0.059}

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET 120	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PLAN\PLAN DUAL 100 WASH.DWG PLOT DATE : 4/10/2015 8:31 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1:100_XREF

NOTE:
CTH M WILL BE RECONSTRUCTED BY WASHBURN COUNTY DURING USH 63 CONSTRUCTION.
TIMING OF LANE AND ROAD CLOSURES MUST BE COORDINATED.
ALSO COORDINATE ACTUAL CONSTRUCTION LIMITS ON CTH M.

N

STA 17+25 CTH M NORTH
EXACT LOCATION TO BE DETERMINED
IN THE FIELD BY THE ENGINEER.
SAW CUT AND BUTT JOINT REQUIRED

SEE INTERSECTION DETAILS

BEGIN TURN LANE
STA. 471+57

PAVE TO BACK OF CURB

BEGIN TAPER
STA 474+57
OFF 27' LT

END TAPER
STA 476+17
OFF 15' LT

S0° 34' 36"W

470 472 474 476 478 S88° 54' 20"E 480 482 484

EP: 20+00.00

USH 63

SIGN

BEGIN TAPER
STA 471+88

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

END TAPER
STA 474+88

OBLITERATE OLD ROAD

USH 63 470+89.3
= CTH M 20+00

5

5

BENCH MARKS AND CONTROL POINTS

NO.	STA.	DESCRIPTION	ELEV.
11	497+19	53.365' LT, MONUMENT	1146.82

FP: 8+16.93

PT: 5+74.90

<CAUTION>

UNDERGROUND PIPELINES
DO NOT DISTURB OUTSIDE
THE ROAD CORE IN THIS AREA

BEGIN SHORT RADIUS
TERMINAL STA 493+64
RADIUS 16', SEE CONST. DETAILS

N53° 50' 20"W STANBERRY

ASPHALTIC FLUMES
ALONG ABUTMENT

ENTRY INVERT 1137.3

BEGIN EAT
STA 491+27

BEGIN TAPER
STA 490+27

PI: 494+29.14

CP-11

PI: 497+24.02
1146.823
MON

GUY

USH 63

486 488 S88° 54' 20"E 490 492 494 496 498 500

PC: 5+16.96

BP: 5+00.00

USH 63 494+02.9
= STANBERRY 5+00

BEGIN TAPER
STA 490+07

BEGIN EAT
STA 491+07

DISCHARGE
INVERT 1137.0

BEGIN SHORT RADIUS
TERMINAL STA 493+50
RADIUS 16', SEE CONST. DETAILS

STA. 492+04
1 @ HE-IV 14X23-INCH
62' CPRC HORIZONTAL ELIPTICAL
2 @ 14X23 HE AEW REQ'D

DITCH PLE
80' WIDE

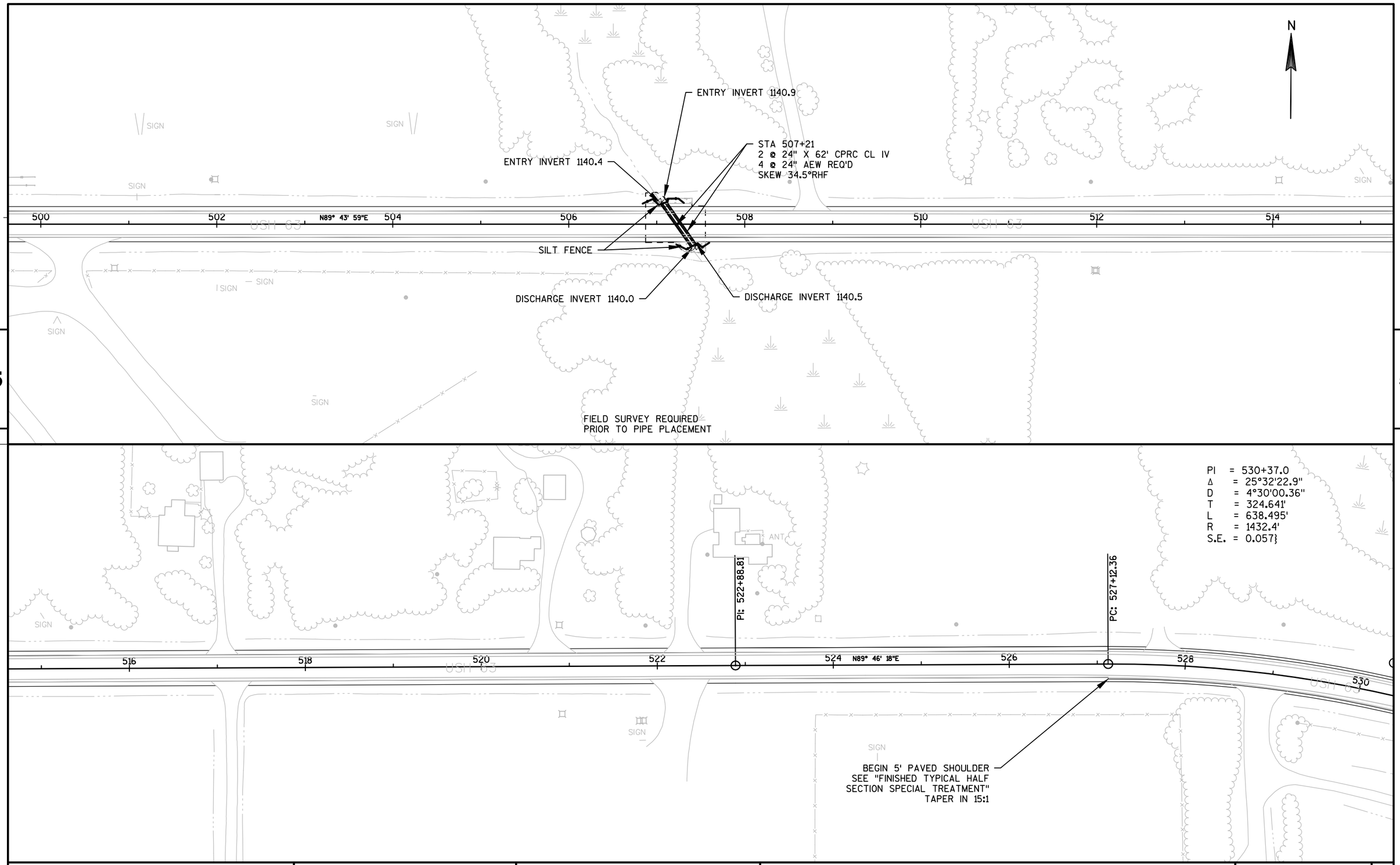
MILL AND OVERFLAY 3.25" DEEP
STA 491+94 TO 493+54
DO NOT RAISE THE GRADE
SEE "RR PAVING DETAILS"

EARTHWORK ESTIMATE RR BEAMGUARD

COMMON EX.	SELECT BORROW
6 CY	4 CY

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET	E

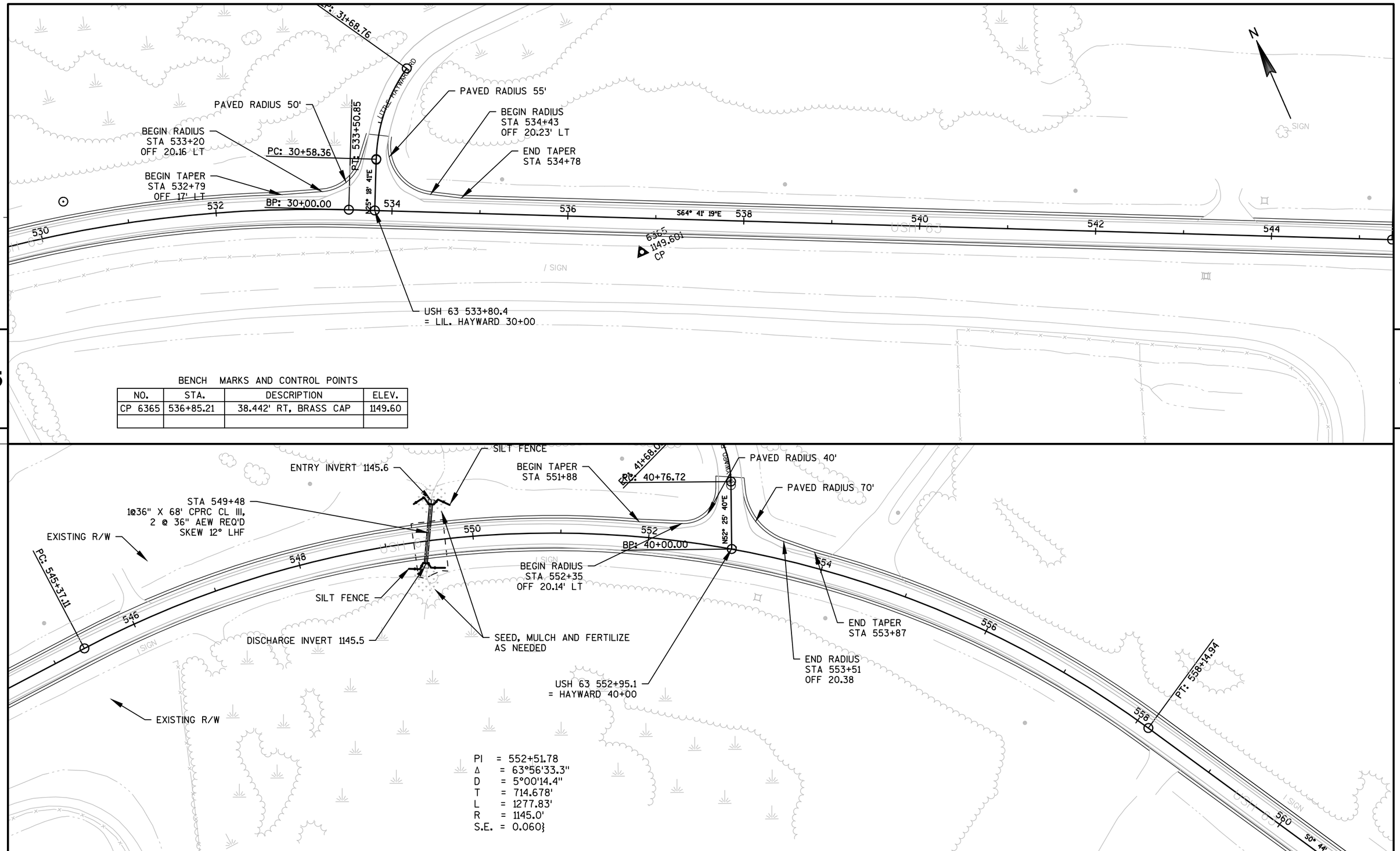
FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PLAN\PLAN DUAL 100 WASH.DWG PLOT DATE : 4/10/2015 8:31 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 44



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET 122	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PLAN\PLAN DUAL 100 WASH.DWG PLOT DATE : 4/10/2015 8:31 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1:100_XREF

WISDOT/CADDS SHEET 44



BENCH MARKS AND CONTROL POINTS

NO.	STA.	DESCRIPTION	ELEV.
CP 6365	536+85.21	38.442' RT, BRASS CAP	1149.60

PI = 552+51.78
Δ = 63°56'33.3"
D = 5°00'14.4"
T = 714.678'
L = 1277.83'
R = 1145.0'
S.E. = 0.060}

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET 123	E

PI = 579+30.71
Δ = 75°18'26.2"
D = 2°29'43.8"
T = 1771.584'
L = 3017.769'
R = 2296.0'
S.E. = 0.046}

N

PC: 561+59.12

560 562 564 566 568 570 572 574

50° 44' 45"E

I SIGN

USH 63

EXISTING R/W

BEGIN CONSTRUCTION
STA 572+48

END TAPER
STA 573+58

PAVE 3' SHOULDER
TO MATCH BACK
OF CURB

GRADING, SHAPING AND
FINISHING LIMITS CTH E

5

5

EROSION CONTROL LEGEND

- ###### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- EROSION BALE, BARRIER
- RIP RAP OR STONE DITCH CHECK
- <<◇>>><<◇> INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- ASPH ASPHALTIC FLUME
- INLET PROTECTION
- SURFACE WATER FLOW

EARTHWORK ESTIMATE CTH E

COMMON EX.	SELECT BORROW
406 CY	275 CY
	EXPANDED 25%

USH 63 583+22.6
= STINNETT 70+00

END TAPER
STA 584+17

BEGIN TAPER
STA 582+17

BEGIN RADIUS
STA. 475+58

USH 63 576+20.5
= CTH E 60+00

576 578 580 582 584 586 588 590

BP: 60+00.00

BP: 70+00.00

I SIGN

CANADIAN NATIONAL

END RADIUS
STA. 576+83
OFF 24' RT

SEE INTERSECTION
DETAILS CTH E

SLOPE INTERCEPT

EXISTING R/W

BEGIN RADIUS
STA 582+66
OFF 20' RT

FLAG RADIUS 55'

EXISTING R/W

PC: 70+67.88

END RADIUS
STA 583+85
OFF 20' RT

FLAG RADIUS 50'

EP: 72+00.21

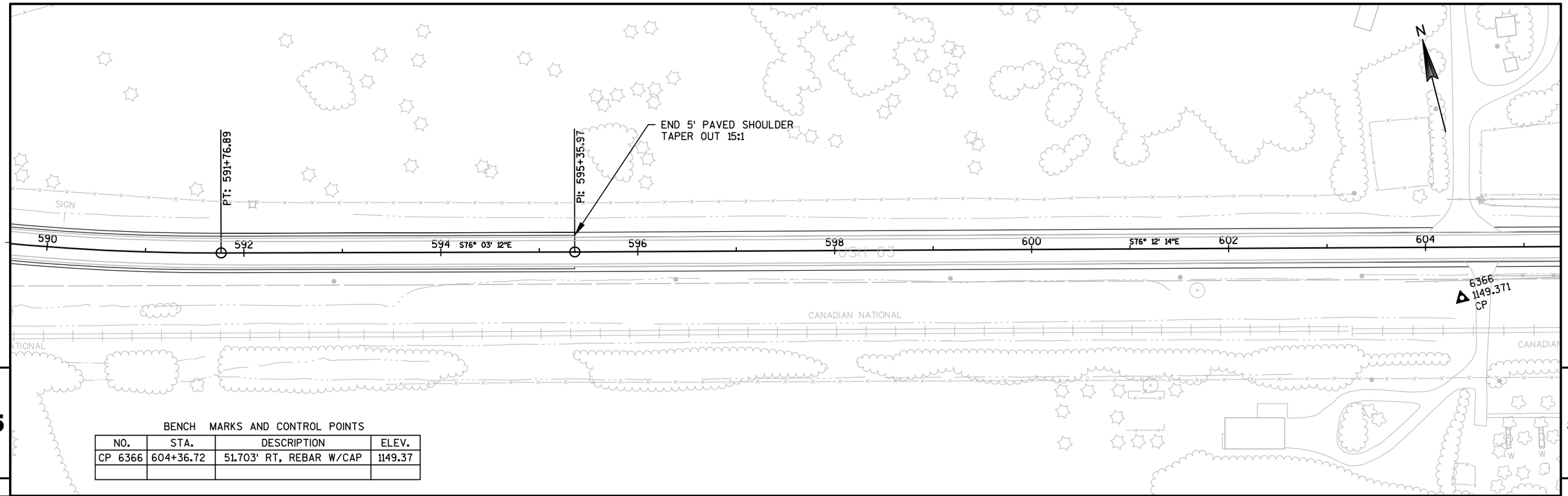
GRADING, SHAPING AND
FINISHING LIMITS CTH E

GRADING, SHAPING AND FINISHING
LIMITS STINNETT LANDING

EARTHWORK ESTIMATE STINNETT
FOR INFORMATION ONLY

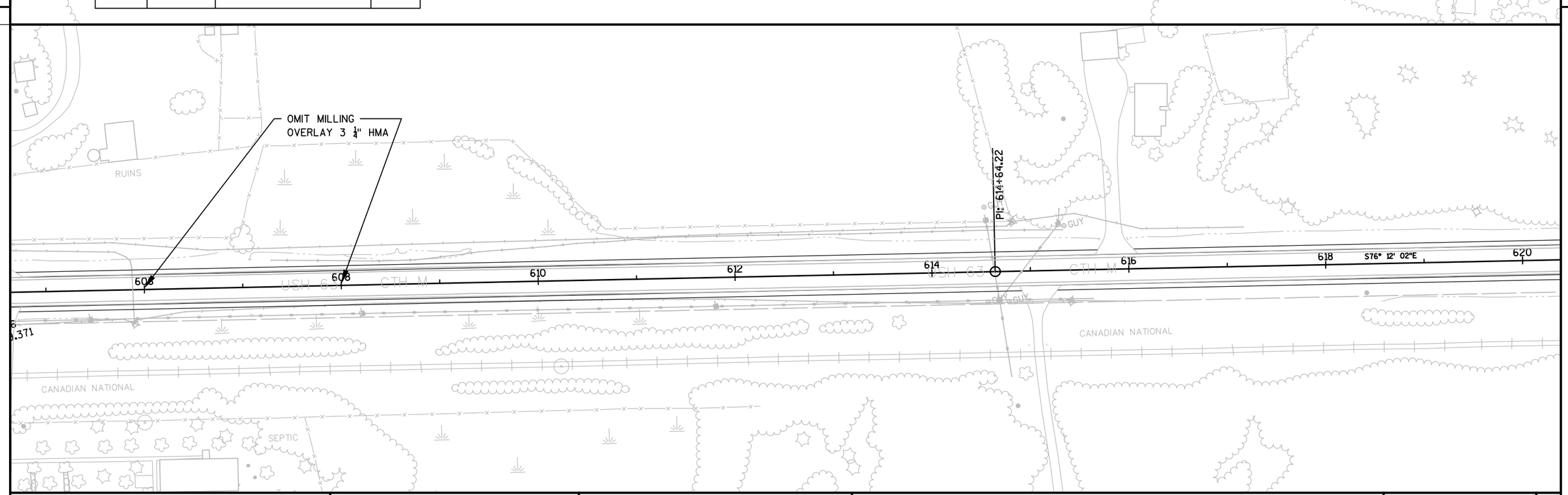
COMMON EX.	SELECT BORROW
69 CY	68CY

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET 124	E

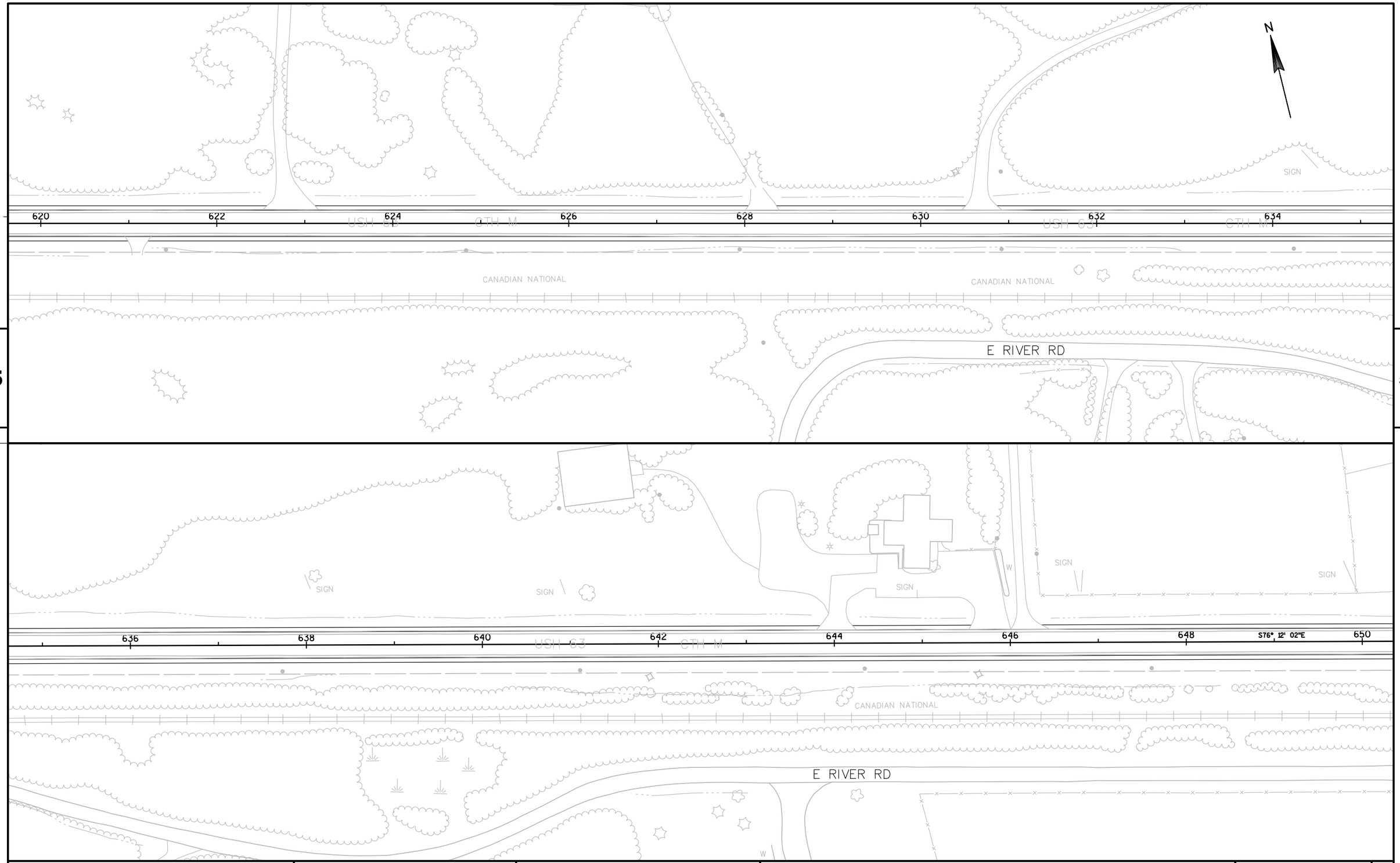


BENCH MARKS AND CONTROL POINTS

NO.	STA.	DESCRIPTION	ELEV.
CP 6366	604+36.72	51.703' RT, REBAR W/CAP	1149.37



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET 125	E



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET 126	E

PI = 661+40.24
Δ = 26°12'29.1"
D = 2°03'34.56"
T = 647.575'
L = 1272.49'
R = 2781.9'
S.E. = 0.041 }

USH 63 654+46.8
= RIVER 80+00

FLAG RADIUS 70'

BP: 80+00.00
PC: 80+12.58

BEGIN TAPER
STA 653+09

BEGIN RADIUS
STA 653+84
OFF 20' RT

PRC: 80+46.67

FERTILIZE, SEED AND
MULCH DISTURBED AREAS

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

GRADING, SHAPING AND
FINISHING LIMITS RIVER ROAD

ENTRY INVERT
1164.67

PC: 654+92.66

STA 655+09, 655+15
2 @ 24" X 50' CPRC CL IV,
4 @ 24" AEW REQ'D

END RADIUS
STA 655+07
OFF 20' RT

END TAPER
STA 655+90

DISCHARGE INVERT
1164.5

EP: 81+10.92

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

FLAG RADIUS 40'

S33° 54' 37"W

650 652 654 656 658 660 662 664

USH 63 CTH M E RIVER RD CANADIAN NATIONAL GUY SIGN

EARTHWORK ESTIMATE RIVER ROAD
FOR INFORMATION ONLY

COMMON EX.	SELECT BORROW
77 CY	74 CY
	EXPANDED 25%

BENCH MARKS AND CONTROL POINTS

NO.	STA.	DESCRIPTION	ELEV.
CP 6367	668+63.78	37.555' LT, BRASS CAP	1173.43

PT: 667+65.15

6367
1173.420
CP

N77° 35' 29"E

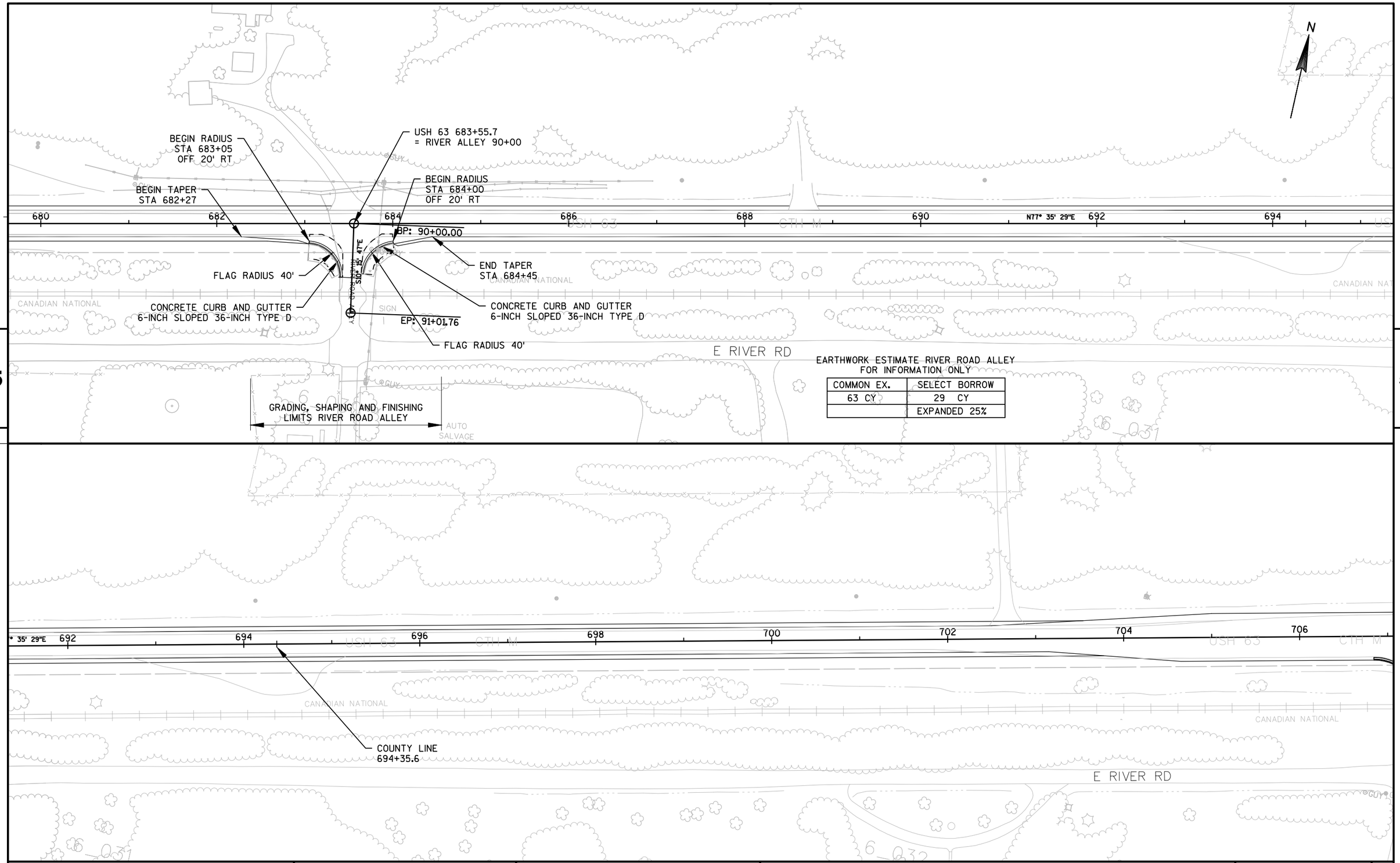
666 668 670 672 674 676 678 680

STA 678+60 TO 679+70
EBS AREA, SEE
DETAILS AND SECTIONS

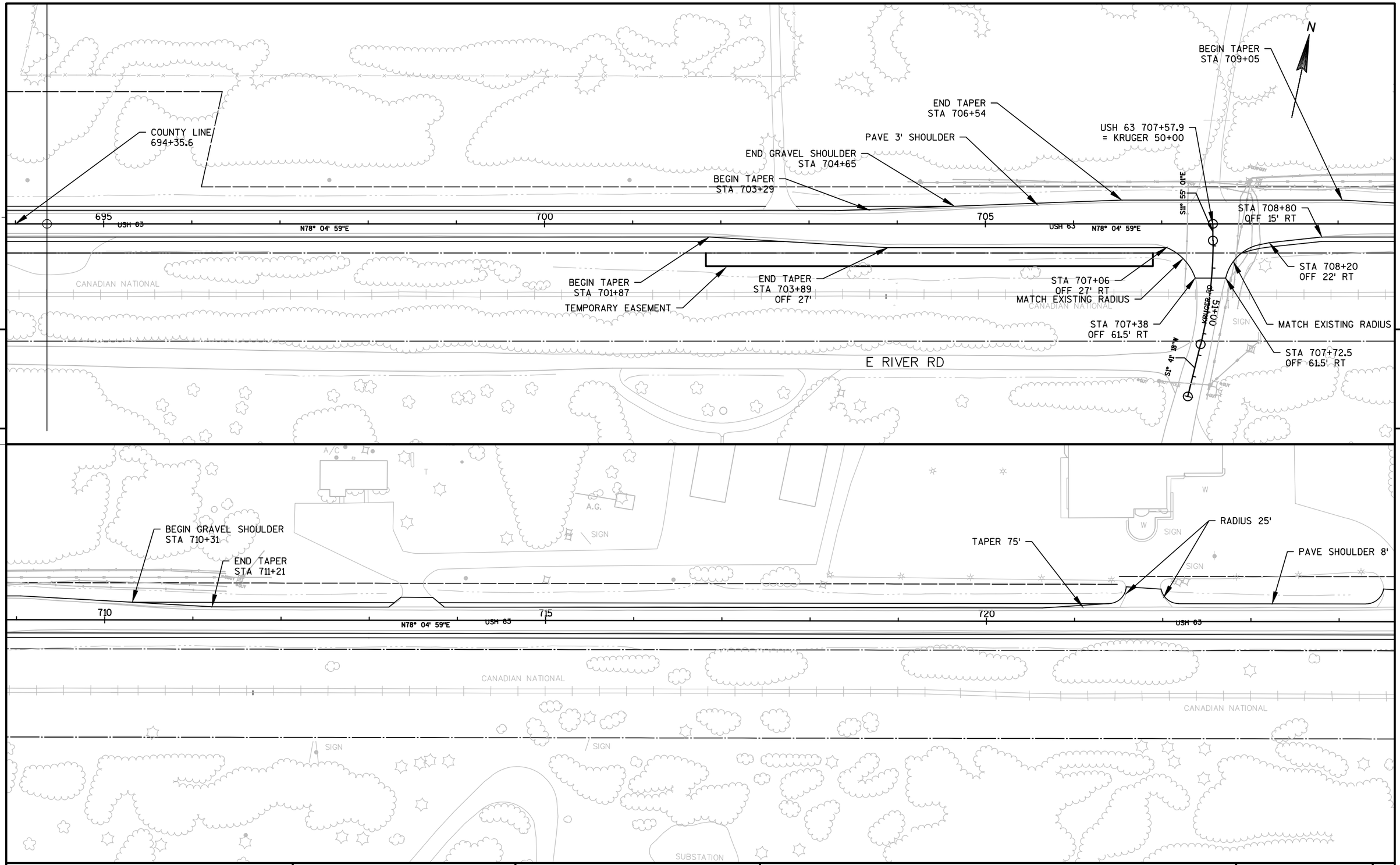
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET 127	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PLAN\PLAN DUAL 100 WASH.DWG PLOT DATE : 4/10/2015 8:32 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1:100_XREF

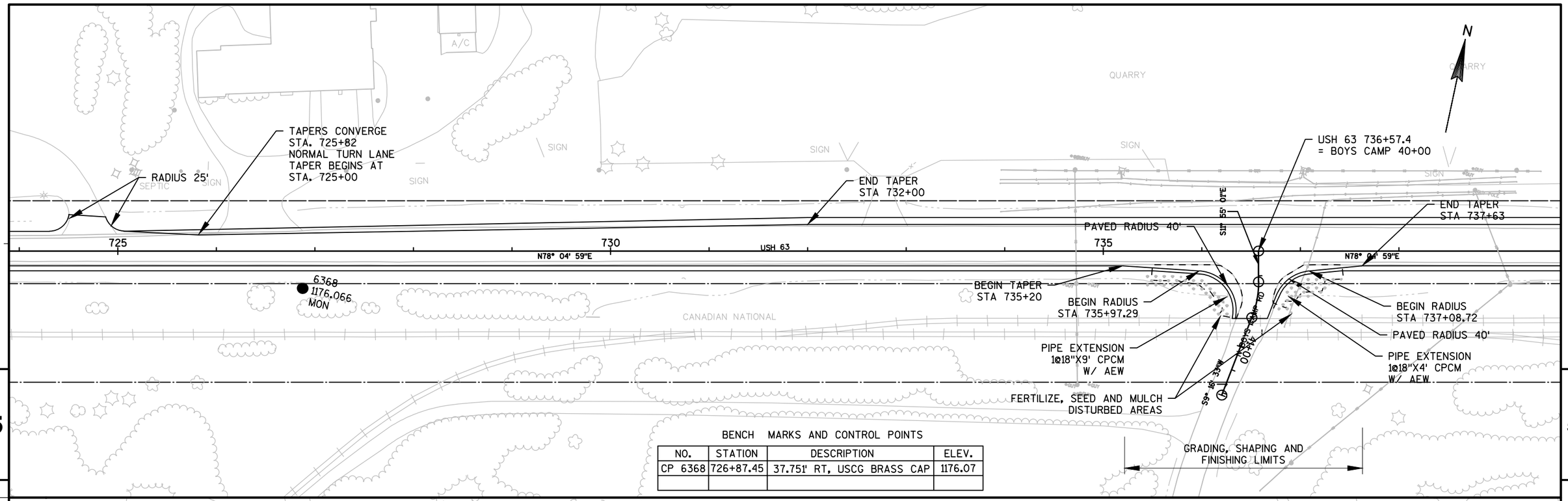
WISDOT/CADDS SHEET 44



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: WASHBURN CO.	SHEET 128	E



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: SAWYER CO.	SHEET 129	E



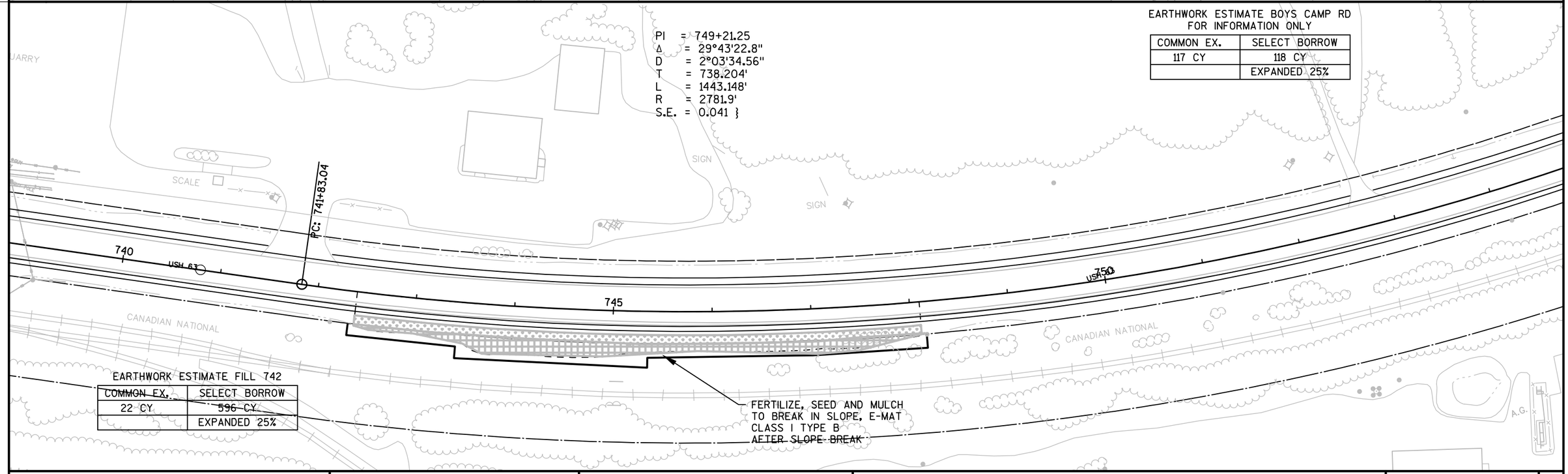
BENCH MARKS AND CONTROL POINTS

NO.	STATION	DESCRIPTION	ELEV.
CP 6368	726+87.45	37.751' RT, USCG BRASS CAP	1176.07

EARTHWORK ESTIMATE BOYS CAMP RD
FOR INFORMATION ONLY

COMMON EX.	SELECT BORROW
117 CY	118 CY
	EXPANDED 25%

PI = 749+21.25
Δ = 29°43'22.8"
D = 2°03'34.56"
T = 738.204'
L = 1443.148'
R = 2781.9'
S.E. = 0.041 }



EARTHWORK ESTIMATE FILL 742

COMMON EX.	SELECT BORROW
22 CY	596 CY
	EXPANDED 25%

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: SAWYER CO.	SHEET 130	E

MATCH EXISTING RADII

STA 757+30
OFF 32.1'

STA 756+31
OFF 31.6'

STA 755+86
OFF 27'

PT: 756+26.19

END TAPER
STA 758+10

USH 63 760+13.5
= LP ENTRANCE 30+00

BEGIN RADIUS
STA 760+70

BEGIN RADIUS
STA 759+35

755

760

765

USH 63

N48° 21' 36"E

BEGIN TAPER
STA 755+50

END TAPER 761+59

EXISTING R/W

TEMPORARY
EASEMENT

CANADIAN NATIONAL

FLAG RADIUS 60'

END GRAVEL SHOULDER
STA 756+19.59

STA 30+87
OFF 15'

S39° 38' 04"E
31.00'

FLAG RADIUS 50'

END TAPER
STA 757+00

STA 30+72
OFF 15'

OLD 24

EARTHWORK ESTIMATE LP ENTRANCE

COMMON EX.	SELECT BORROW
288 CY	6 CY

GRADING, SHAPING AND
FINISHING LIMITS LP ENTRANCE

5

5

N

SIGN

A.G.

LAWN RD

USH 63 772+28.5
= TIMBERLAWN 20+00

BEGIN TAPER
STA 782+30

END TAPER
STA 784+30

770

775

780

USH 63

N48° 21' 36"E

N48° 21' 36"E

BEGIN TAPER
STA 771+14

BEGIN RADIUS
STA 771+62

S41° 38' 24"E
31.00'

END TAPER
STA 773+21

PAVED RADIUS 55'

BEGIN RADIUS
STA 772+87

PAVED RADIUS 50'

EARTHWORK ESTIMATE TIMBERLAWN
FOR INFORMATION ONLY

COMMON EX.	SELECT BORROW
206 CY	0 CY
	EXPANDED 25%

OLD 24

OLD 24

GRADING, SHAPING AND
FINISHING LIMITS

MINI
GOLF
COURSE

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: SAWYER CO.	SHEET 131	E

EARTHWORK ESTIMATE SHORT RAD 791

COMMON EX.	SELECT BORROW
0 CY	12 CY

BEGIN TAPER
STA 784+70

BEGIN EAT
STA 785+75

FERTILIZE, SEED AND MULCH
DISTURBED AREAS

EXISTING R/W

SILT FENCE

DISCH. INVERT 1167.8

STA 791+35 LT
1@18"X64' CPCS
2@18" AEW REQ'D

BEGIN SHORT
RADIUS TERMINAL
RADIUS = 16'
STA 791+03

ENTRY INVERT 1170.3

PAVEMENT LIMIT TO BE
DETERMINED BY THE ENGINEER

N48° 21' 36"E

SHORT RADIUS GRADING
STA 790+88
OFF 35' LT

785 790 795

USH 63 USH 63

EARTHWORK ESTIMATE EAT 785+75

COMMON EX.	SELECT BORROW
0 CY	26 CY

OLD 24 OLD 24

5 5

BEGIN TAPER
STA 799+45

BEGIN RADIUS
STA 799+92
OFF 20'

USH 63 800+38.7
= OGREN 90+00

BEGIN RADIUS
STA 800+86
OFF 20'

END TAPER
STA 801+19

PAVED RADIUS 40'

PAVED RADIUS 40'

800 805 USH 63 N48° 21' 36"E

EARTHWORK ESTIMATE OGREN ROAD

COMMON EX.	SELECT BORROW
98 CY	9 CY

GRADING, SHAPING AND
FINISHING LIMITS OGREN ROAD

OLD 24

EN RD

PAVED RADIUS 40'

BEGIN RADIUS
STA 809+13

BEGIN TAPER
STA 808+59

BEGIN TAPER
STA 808+69

BEGIN RADIUS
STA 809+16

PAVED RADIUS 40'

USH 63 809+64.2
= STRESS 1+10

BEGIN RADIUS
STA 810+00
MATCH EXISTING

BEGIN RADIUS
STA 810+16

PAVED RADIUS 40'

810 N48° 21' 36"E

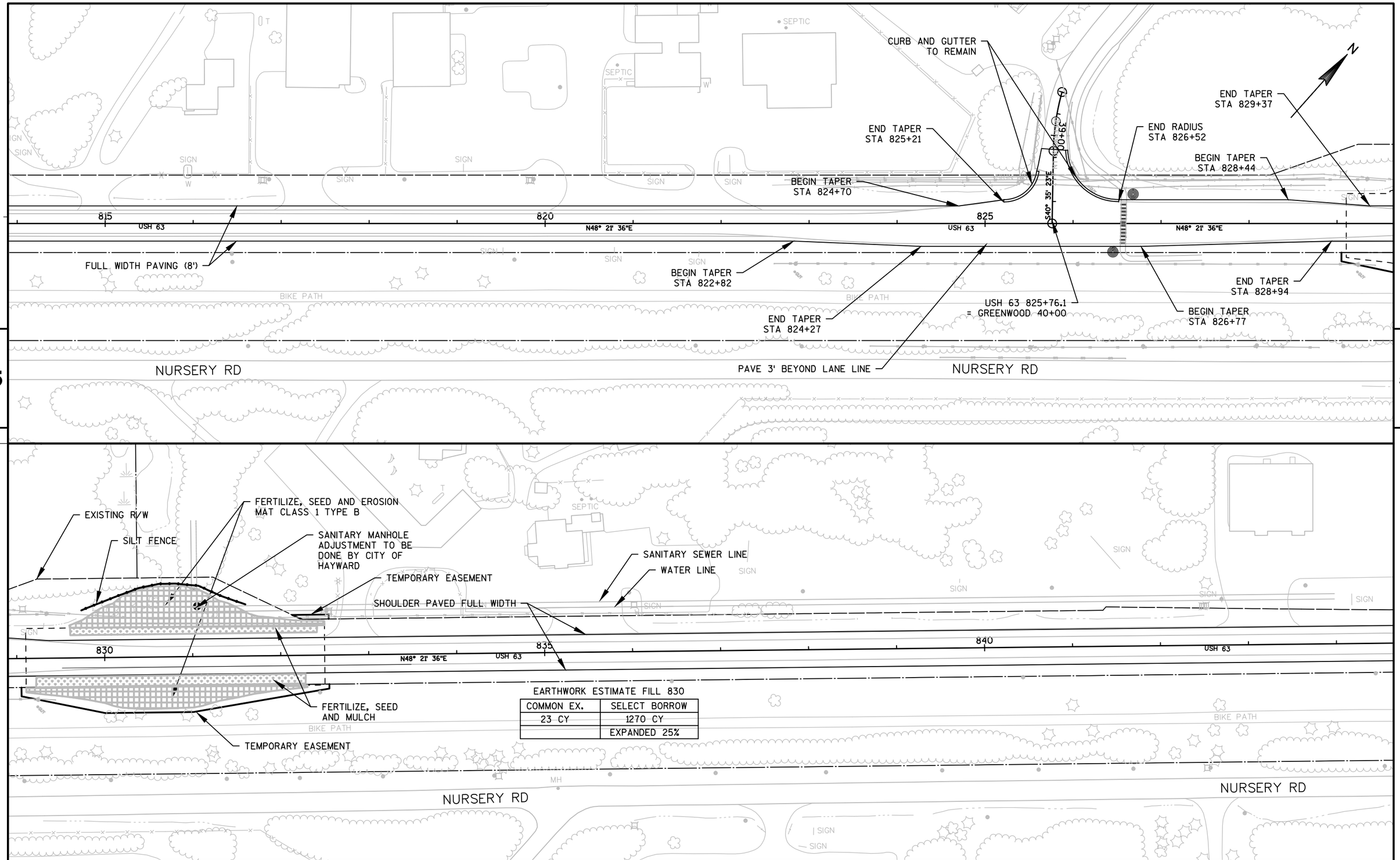
EARTHWORK ESTIMATE STRESS ROAD
FOR INFORMATION ONLY

COMMON EX.	SELECT BORROW
78 CY	0 CY

GRADING, SHAPING AND
FINISHING LIMITS STRESS ROAD

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: SAWYER CO.	SHEET 132	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PLAN\PLAN DUAL 100 SAWYER.DWG PLOT DATE : 4/10/2015 8:20 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:100 FT



EARTHWORK ESTIMATE FILL 830

COMMON EX.	SELECT BORROW
23 CY	1270 CY
	EXPANDED 25%

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: SAWYER CO.	SHEET 133	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PLAN\PLAN DUAL 100 SAWYER.DWG PLOT DATE : 4/10/2015 8:20 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:100 FT

BENCH MARKS AND CONTROL POINTS

NO.	STATION	DESCRIPTION	ELEV.
CP 6369	872+95.94	53.456' RT, WHMPT MONUMENT	1184.88

EARTHWORK ESTIMATE NURSERY ROAD
TURN LANE ONLY

COMMON EX.	SELECT BORROW
242 CY	20 CY
	EXPANDED 25%

PI = 869+15.53
Δ = 7°24'31.32"
D = 1°59'59.28"
T = 185.496'
L = 370.474'
R = 2865.1'
S.E. = 0.020 }

BEGIN TAPER
STA 857+93

END TAPER
STA 858+81

NURSERY RD
GRADING, SHAPING AND
FINISHING LIMITS NURSERY ROAD

NURSERY RD
GRADING, SHAPING AND
FINISHING LIMITS VERMONT AVE.

USH 63 861+54.8
= NURSERY 80+00

BEGIN RADIUS
STA 860+81

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

BEGIN RADIUS
STA 862+08

END TAPER
STA 862+71

FLAG RADIUS 55'

FLAG RADIUS 50'

TEMPORARY EASEMENT

PC: 867+30.03

STA 870+20, 870+33
2 @ 48" X 88' CPRC CL IV,
4 @ 48" AEW REQ'D
SKEW 31.5° LHF

ENTRY INVERT 1178.8

USH 63 872+37.2
= VT EAST 70+00

STA. 872+88
OFF 24' LT

STA. 59+51
OFF 16' RT

STA 59+51
OFF 16' LT

STA 873+70
OFF 24' LT

USH 63 873+30
= VT WEST 60+00

PIPE EXTENSION
1@18"X8' CPCM
1@18" AEW REQ'D

PIPE EXTENSION
1@18"X15' CPCM
1@18" AEW REQ'D

CP 6369
1184.880

EXISTING R/W

BEGIN MILL AND OVERLAY
1.75" DEEP STA 868+18

RIPRAP MEDIUM

DISCH INVERT 1178.1

OUTFALLS CONFLICT; ADJUST SS
OUTFALL IN THE FIELD TO
ACCOMODATE CROSS PIPES

ATTENTION

RAILROAD ST R/W TO HIGHWAY

BIKE PATH

USH 63

N48° 21' 36"E

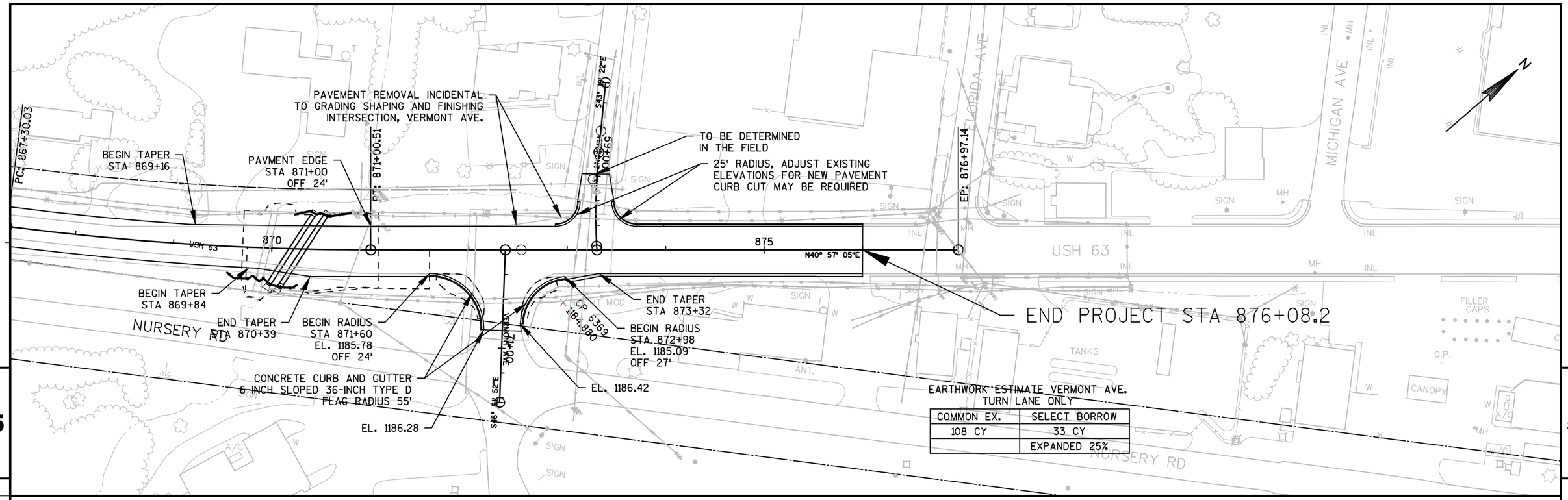
S46° 15' 44"E

S43° 38' 22"E

S46° 55' 52"E

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: SAWYER CO.	SHEET 134	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\PLAN\PLAN DUAL 100 SAWYER.DWG PLOT DATE : 4/10/2015 8:20 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	DUAL PLAN: SAWYER CO.	SHEET 135	E

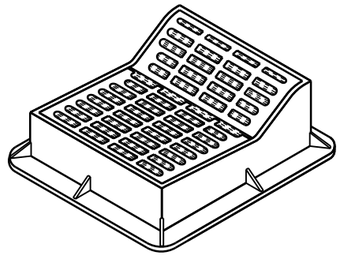
Standard Detail Drawing List

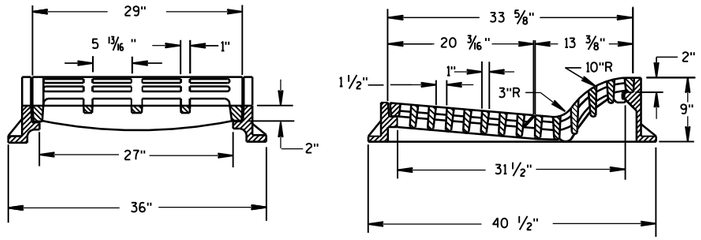
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A09-01	CATCH BASINS 2X3-FT AND 2.5X3-FT
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13A08-01	ASPHALTIC RUMBLE STRIPS AT INTERSECTION
13A09-01	CONCRETE RUMBLE STRIPS AT INTERSECTION
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
14B15-07A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-07B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-07C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B15-08A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-08B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-08C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B20-11A	STEEL THRIE BEAM STRUCTURE APPROACH
14B20-11B	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS
14B20-11D	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SLOPED END PARAPETS
14B20-11G	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTOR PLATE DETAIL
14B24-08A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08C	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
14B42-02A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-01A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-03A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C03-02	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-12A	PAVEMENT MARKING SYMBOLS
15C07-12B	PAVEMENT MARKING WORDS
15C08-16A	PAVEMENT MARKING (MAINLINE)

6

Standard Detail Drawing List

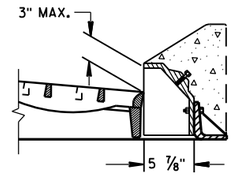
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16C	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C08-16D	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-02A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D28-02	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

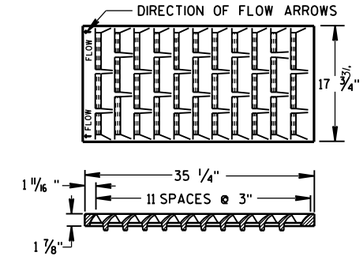
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

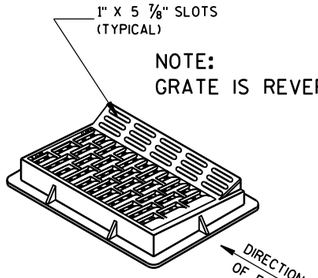
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

GENERAL NOTES

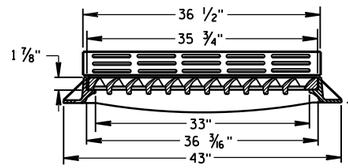
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

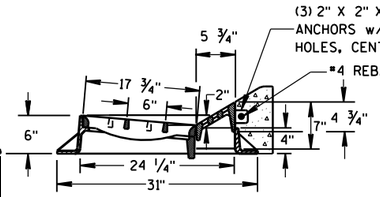
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.





NOTE:
GRATE IS REVERSIBLE.

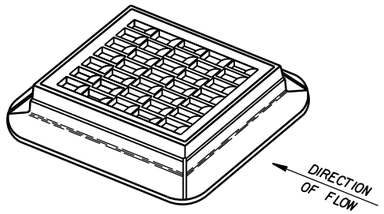


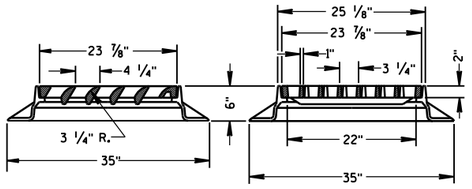


TYPE "HM"

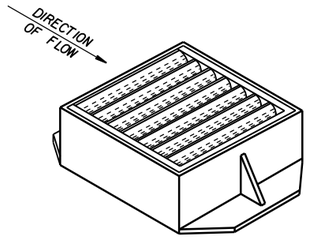
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

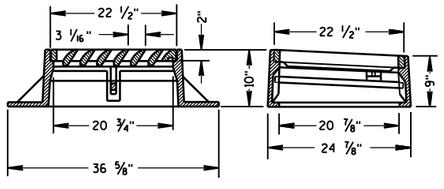
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



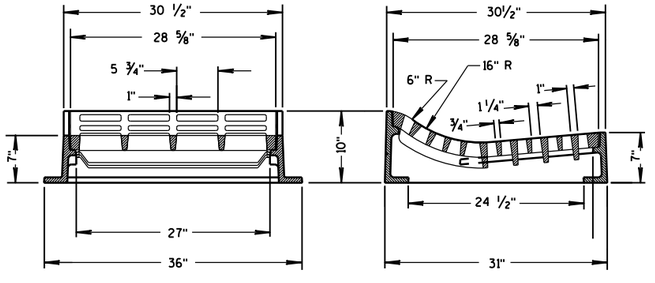


TYPE "S"



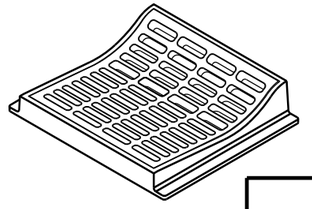


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

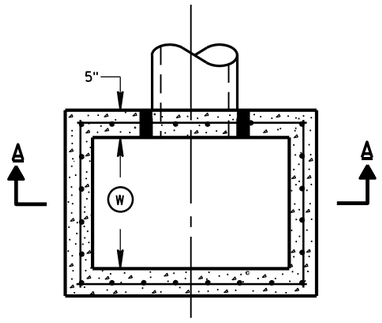
APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

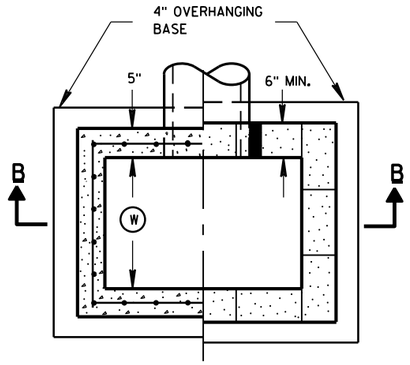
FHWA

6

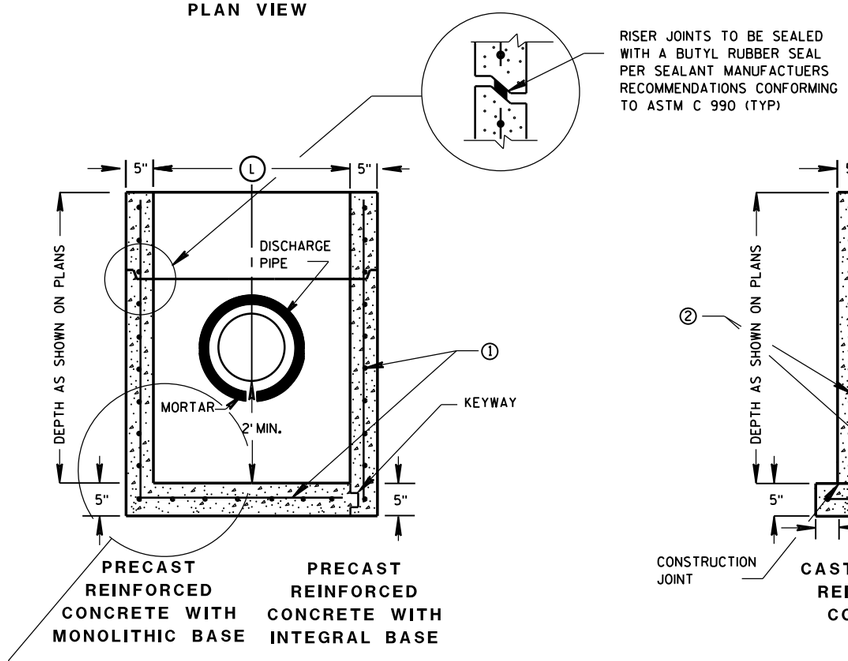
S.D.D. 8 A 5-19c



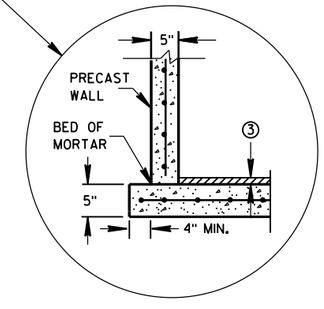
PLAN VIEW



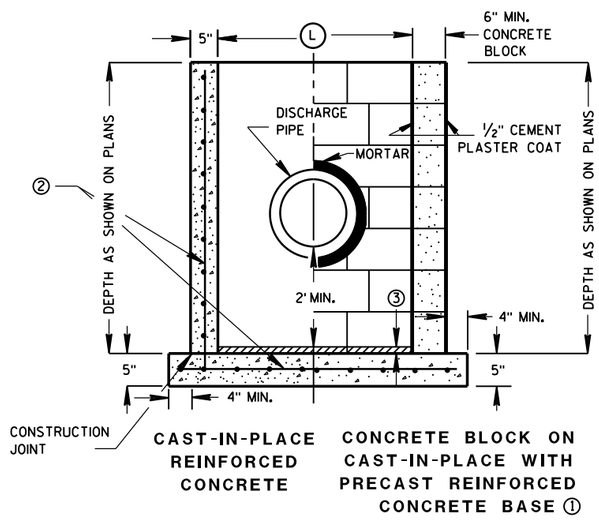
PLAN VIEW



SECTION A-A



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION



SECTION B-B

GENERAL NOTES

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

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

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

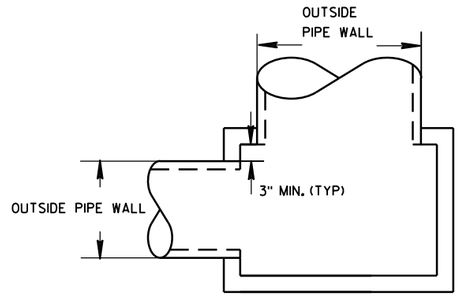
③ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER MATRIX

CATCH BASIN SIZE		INLET COVER TYPE	F	ALL H'S
	WIDTH (W) (FT)	LENGTH (L) (FT)		
2X3-FT	2	3		X
2.5X3-FT	2.5	3	X	

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

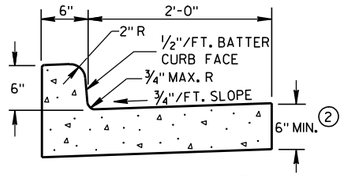
CATCH BASINS 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

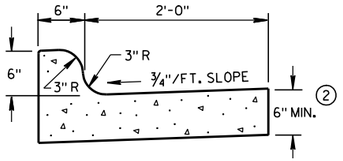
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA — NT

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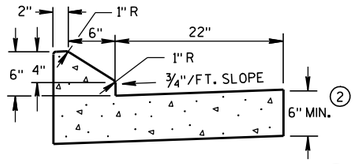
S.D.D. 8 A 9-1



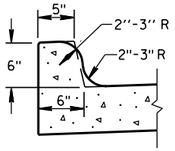
TYPES A & D (1)



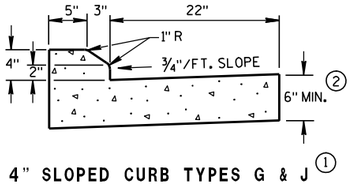
TYPES K & L (1)



6" SLOPED CURB TYPES G & J (1)

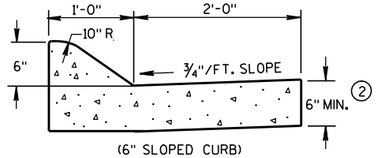


OPTIONAL CURB SHAPE FOR TYPES K & L (1)

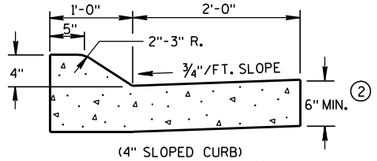


4" SLOPED CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

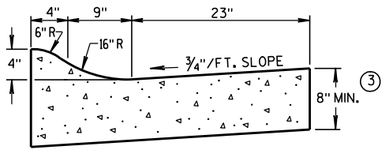


(6" SLOPED CURB)



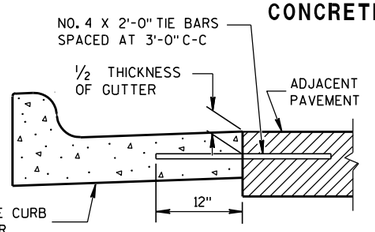
(4" SLOPED CURB)

TYPES A & D (1)

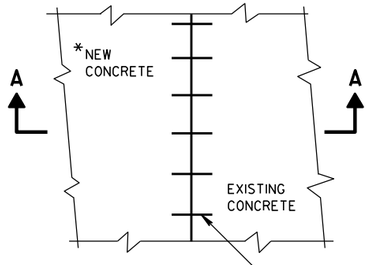


4" SLOPED CURB TYPES R & T (1) (4)

CONCRETE CURB & GUTTER 36"

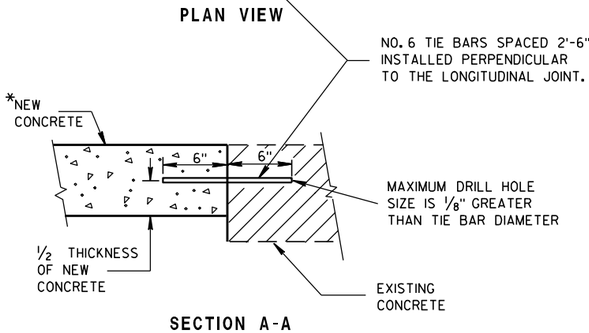


TYPICAL TIE BAR LOCATION (1)



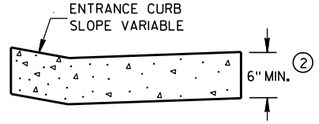
*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

PLAN VIEW

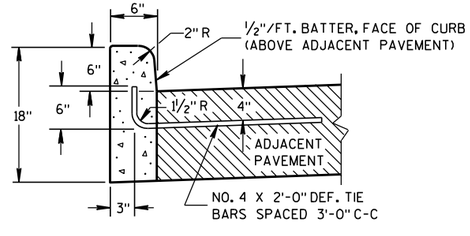


SECTION A-A

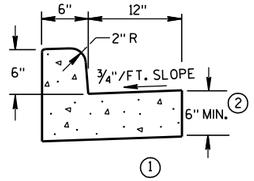
TIE BARS DRILLED INTO EXISTING PAVEMENT



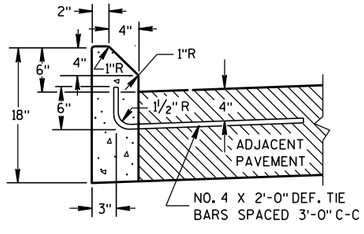
DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)



(1)
TYPES A & D



(1)
TYPES A & D
CONCRETE CURB & GUTTER 18"



(1)
TYPES G & J

CONCRETE CURB

GENERAL NOTES

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

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

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

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

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

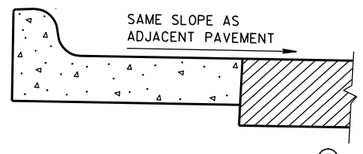
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

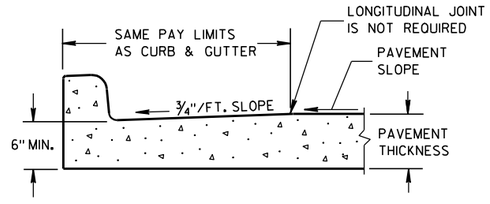
(3) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(4) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

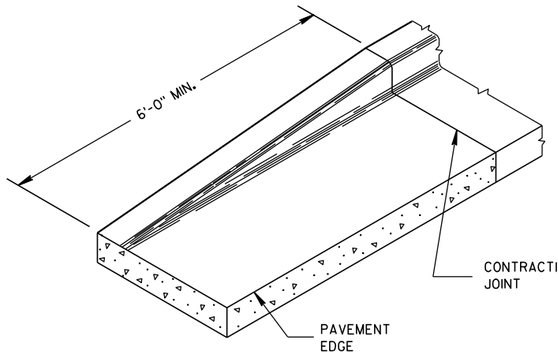
(5) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



REVERSE SLOPE GUTTER (5)
(TYPICAL FOR ALL CURB & GUTTER TYPES)



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

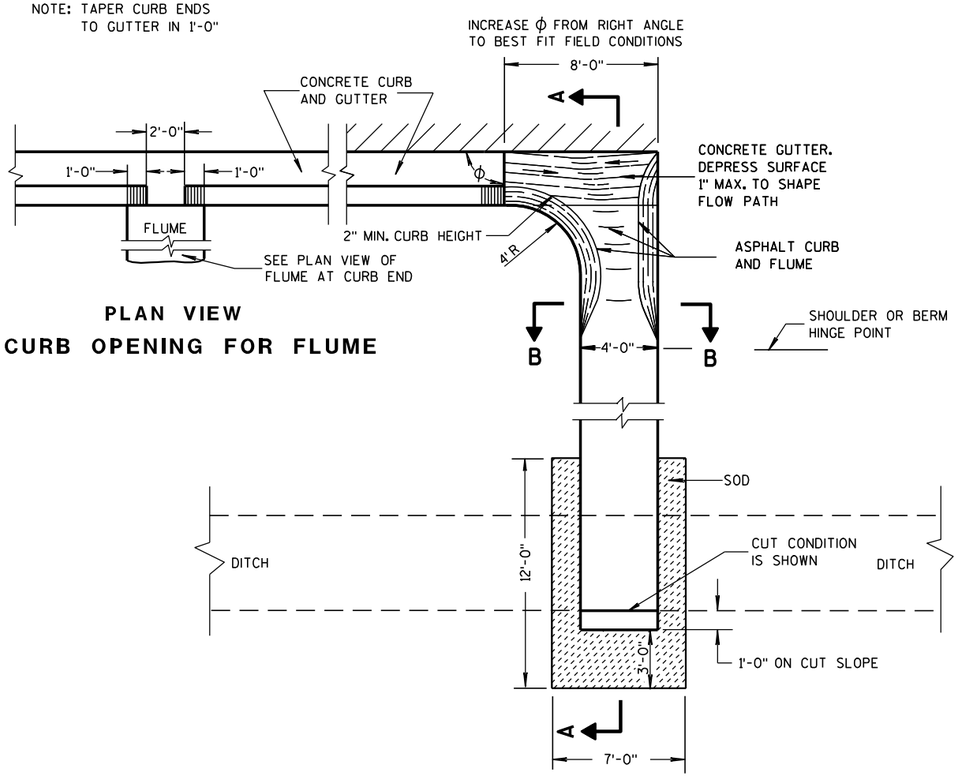
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/4/08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
FHWA

6

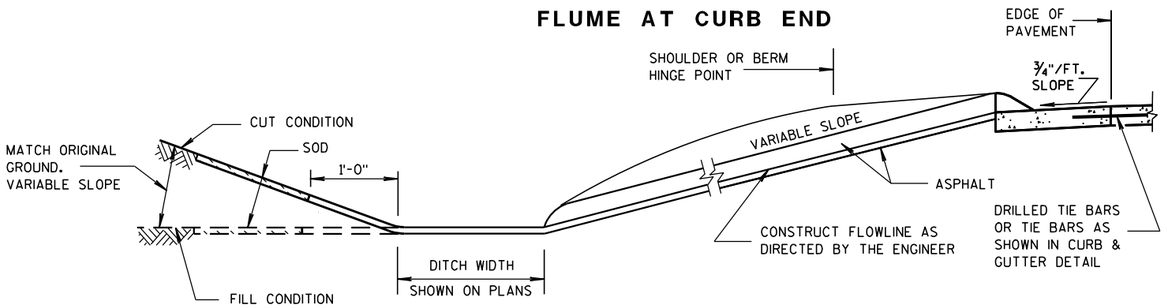
S.D.D. 8 D 1-17

ASPHALTIC FLUME

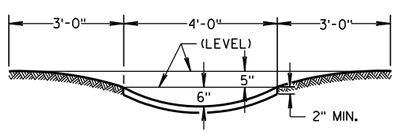


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

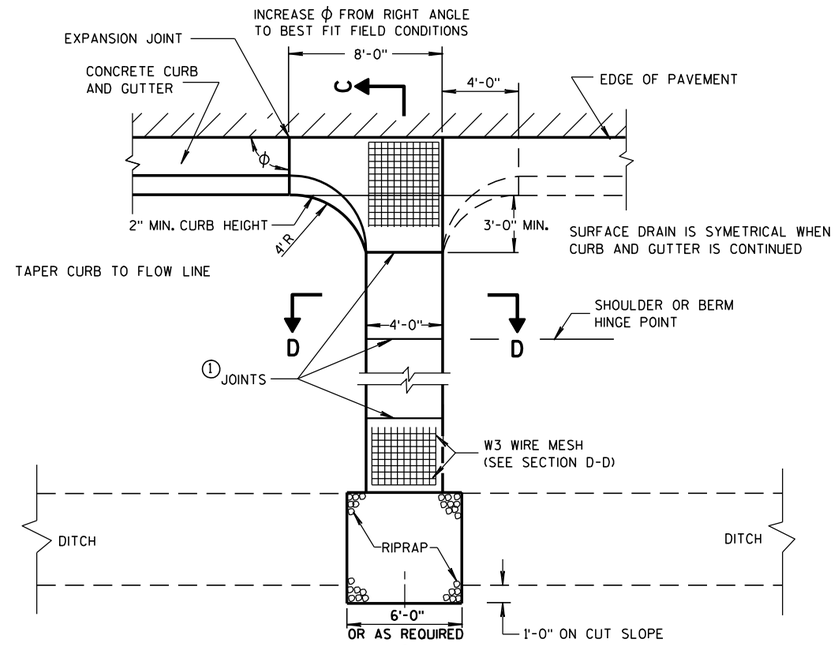
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

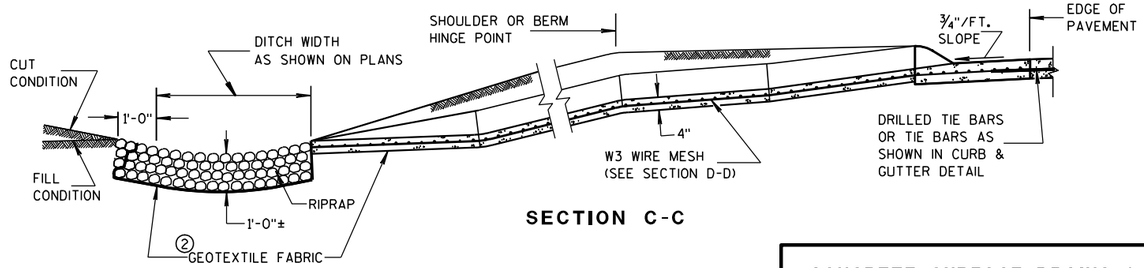
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

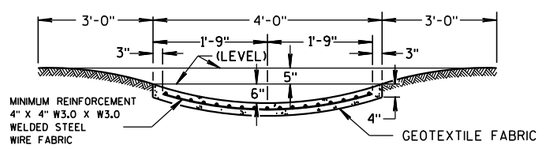
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9-4-08 DATE — /S/ Jerry H. ... ROADWAY STANDARDS ENGINEER — MENT

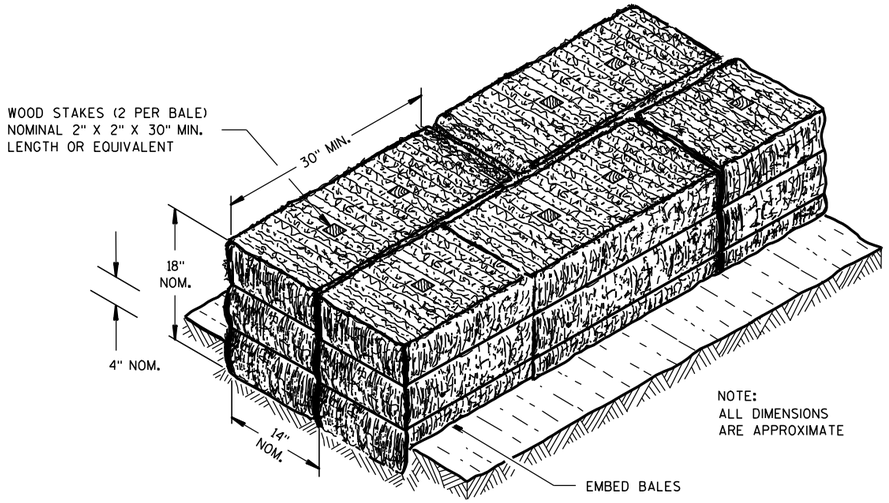
FHWA

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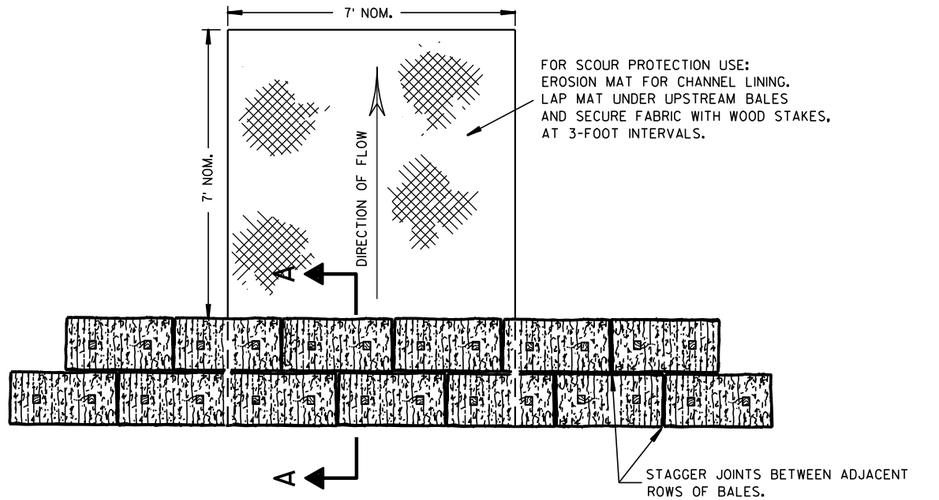
S.D.D. 8 D 4-5

6

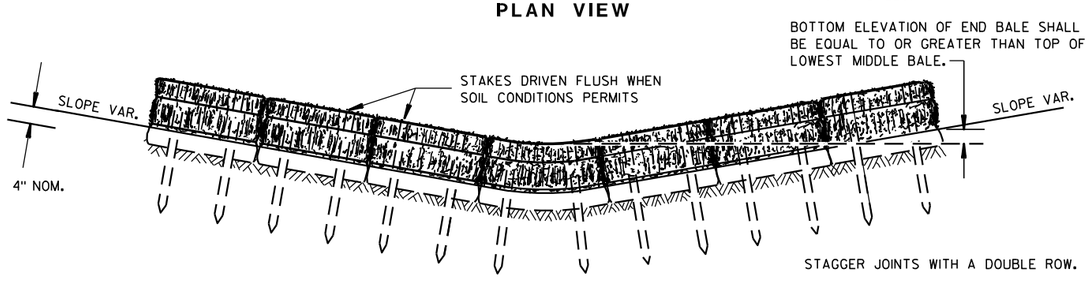
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



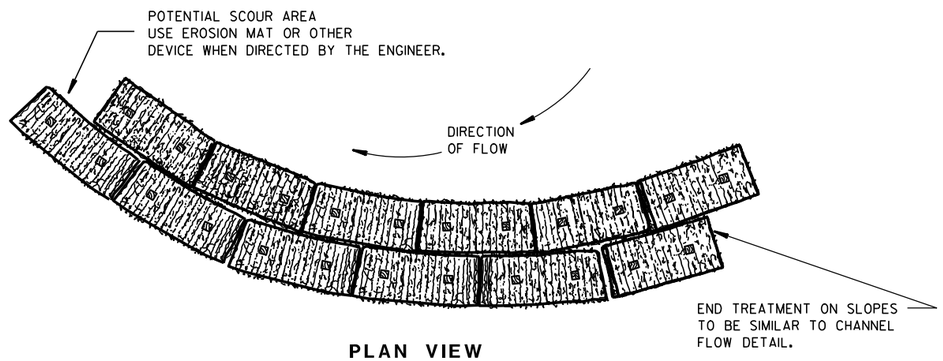
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

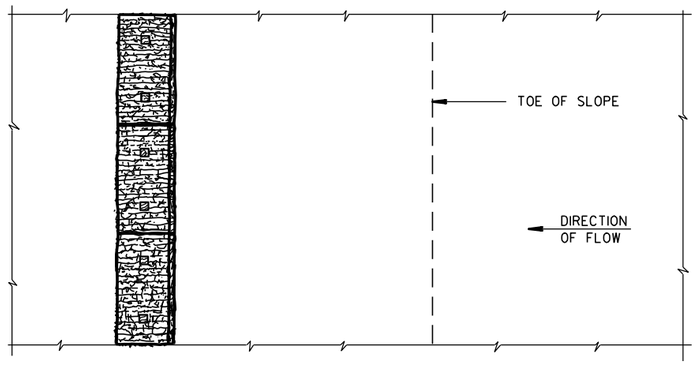
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

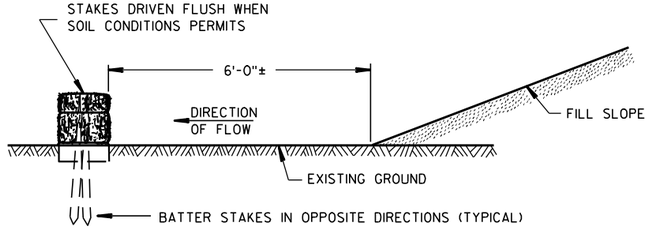


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

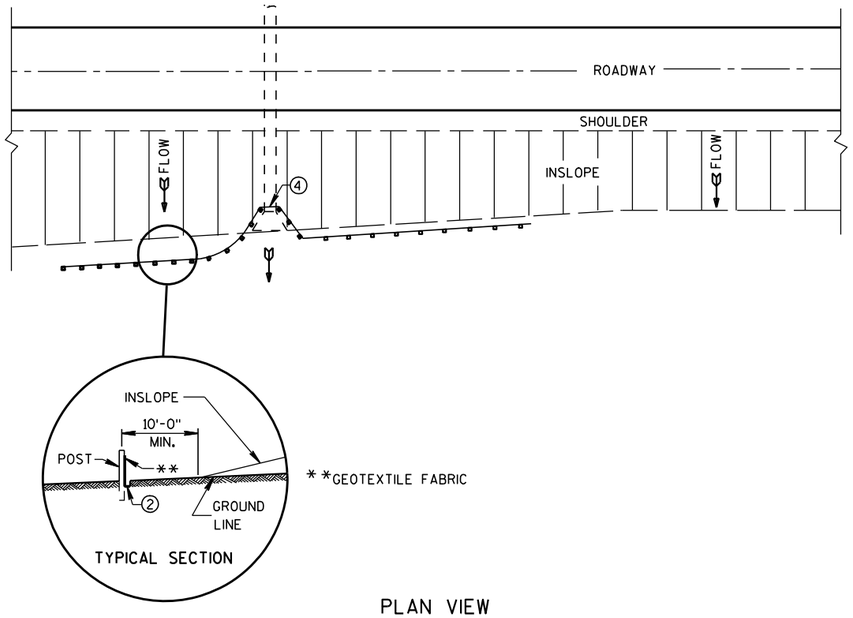
APPROVED
6/04/02 DATE
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

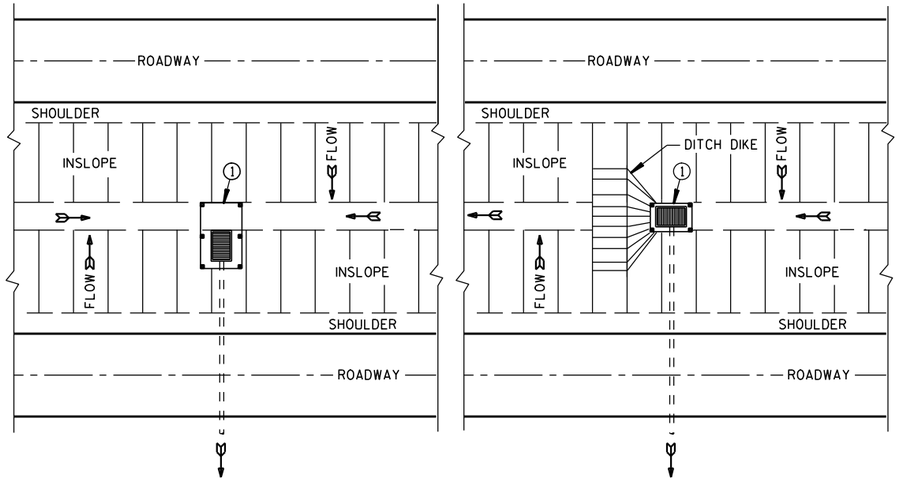
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

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

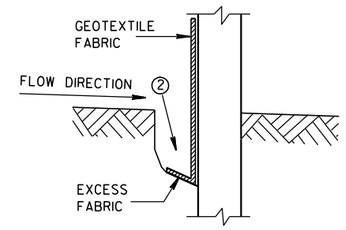
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

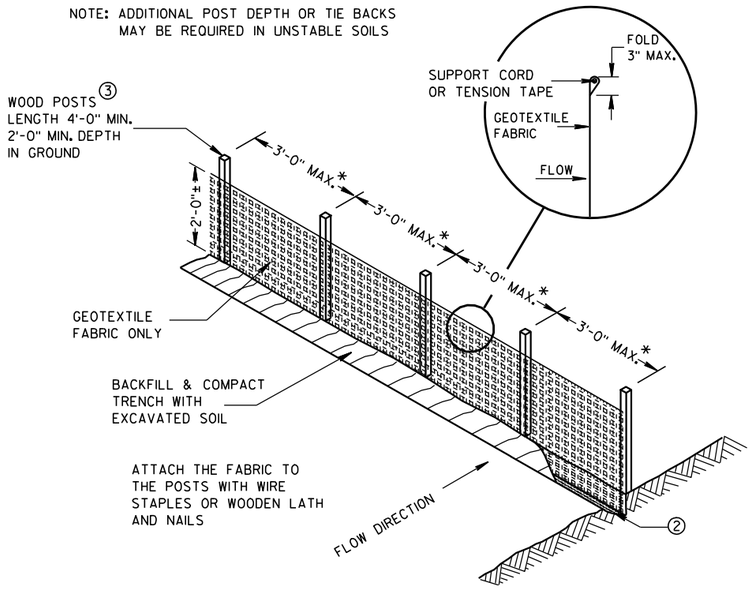
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

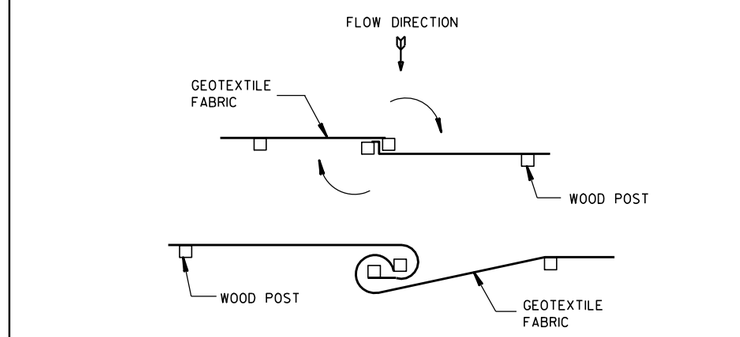


TRENCH DETAIL

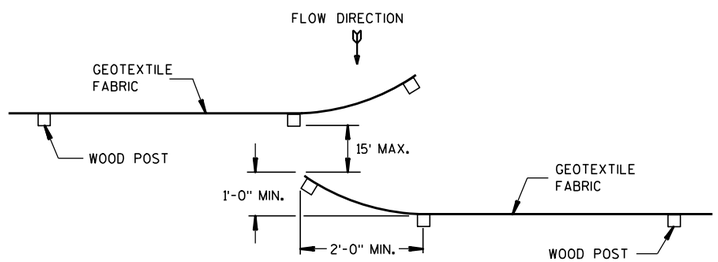


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

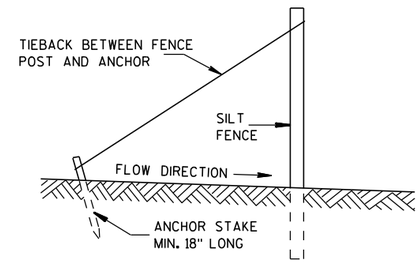


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

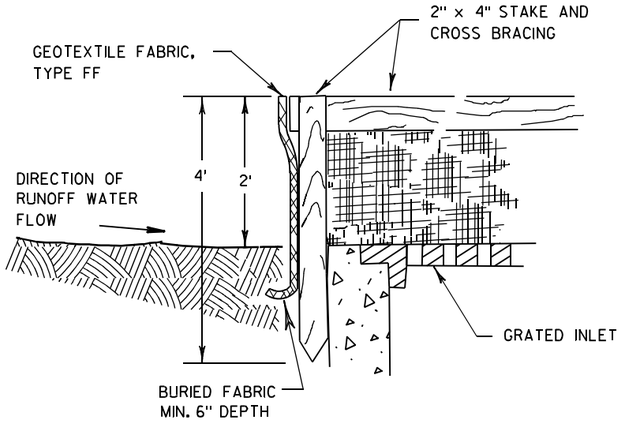
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

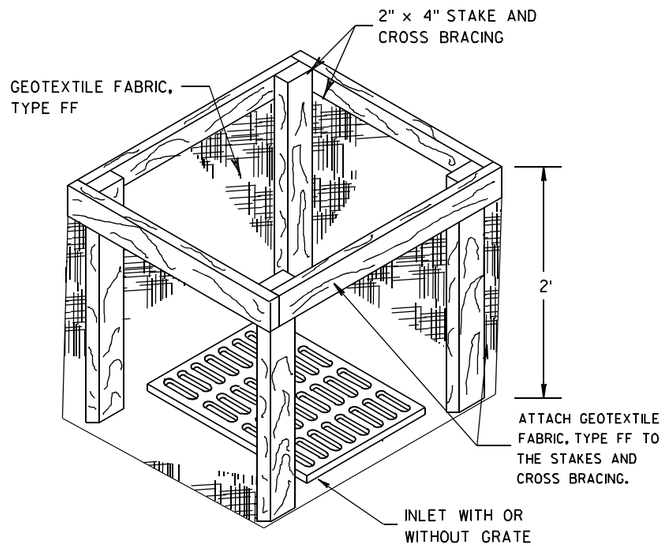
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S.D.D. 8 E 9-6

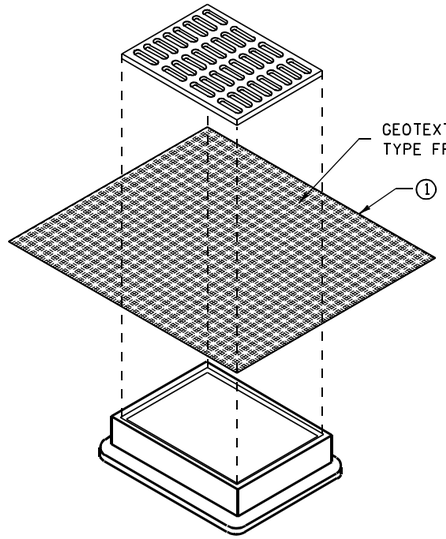
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S.D.D. 8 E 9-6



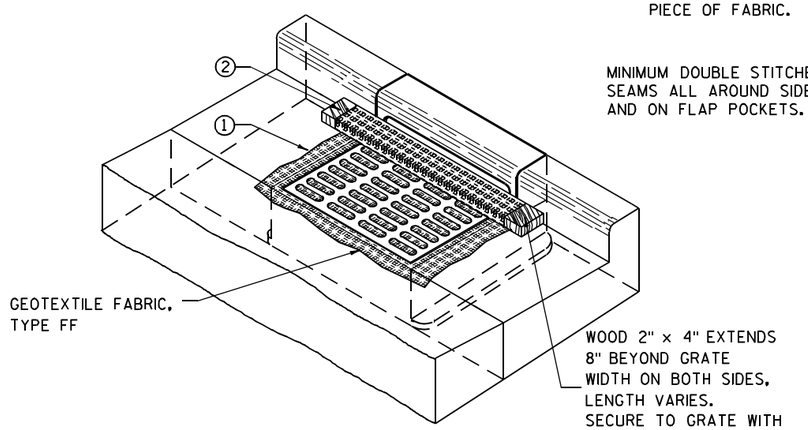


INLET PROTECTION, TYPE A

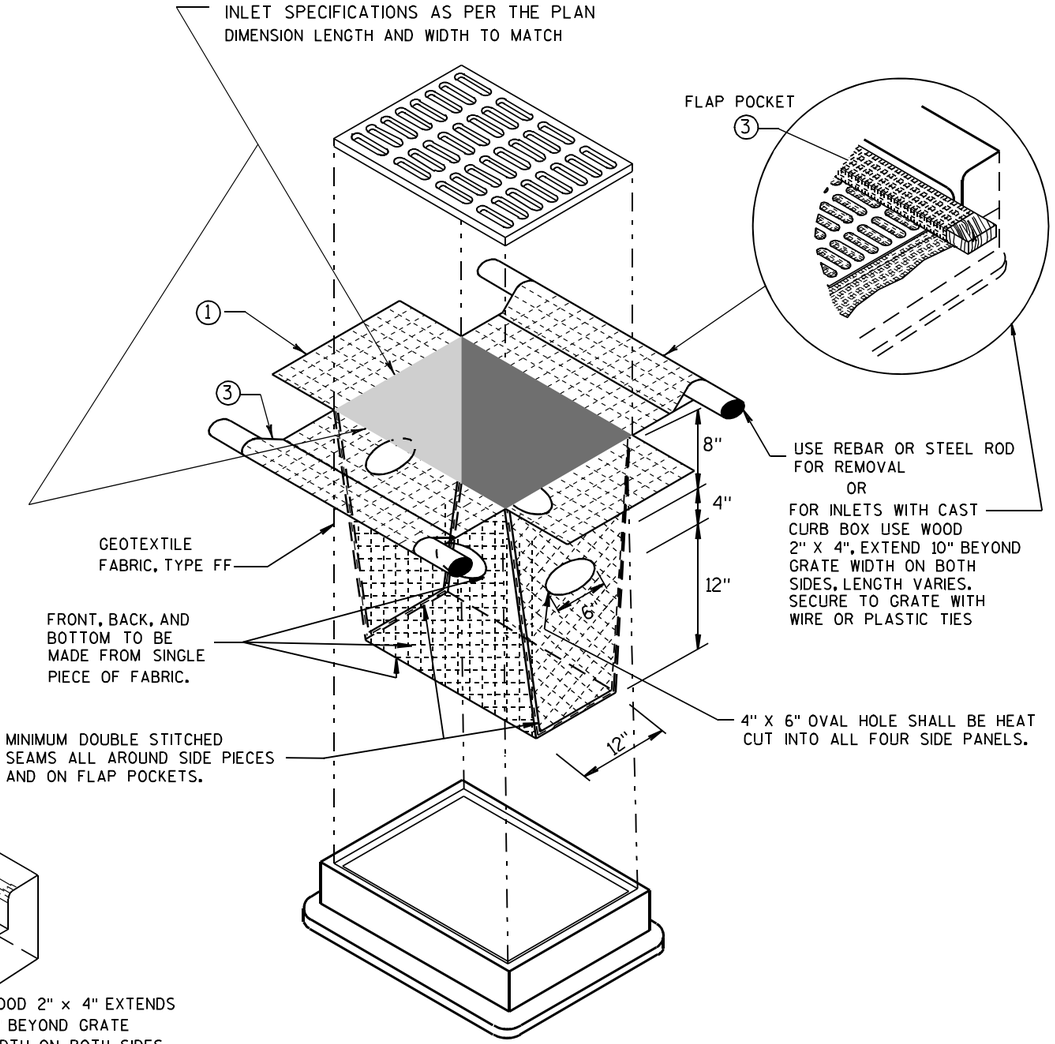


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2

METAL APRON ENDWALLS

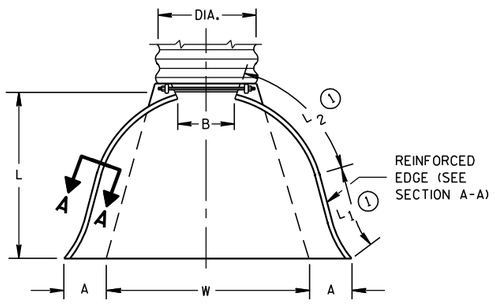
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

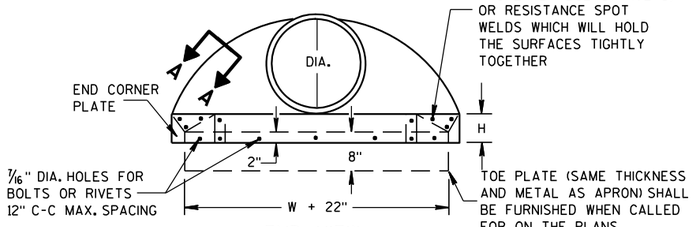
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

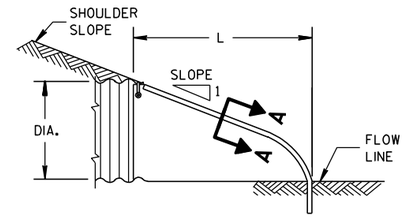
*MINIMUM
**MAXIMUM



PLAN VIEW

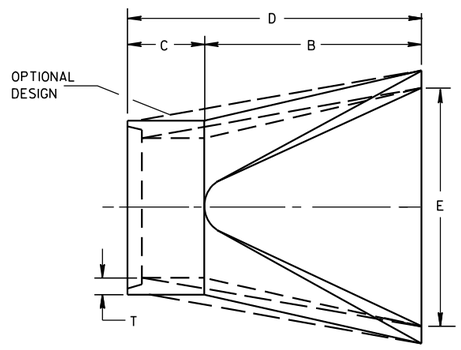


END VIEW

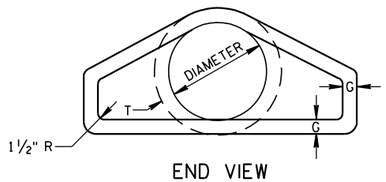


SIDE ELEVATION

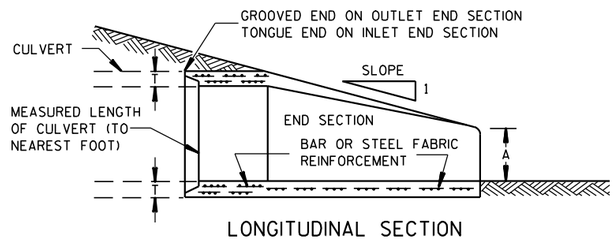
METAL ENDWALLS



PLAN

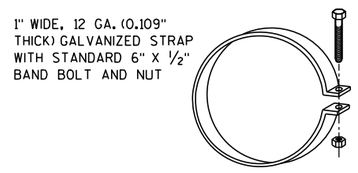


END VIEW



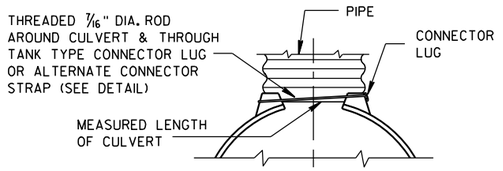
LONGITUDINAL SECTION

CONCRETE ENDWALLS

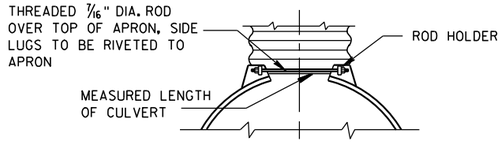


ALTERNATE FOR TYPE 1 CONNECTION

END SECTION CONNECTOR STRAP

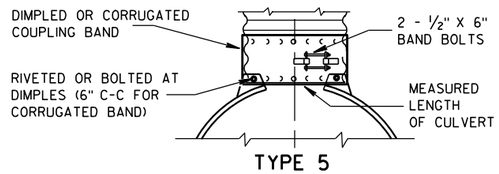


TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE

TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

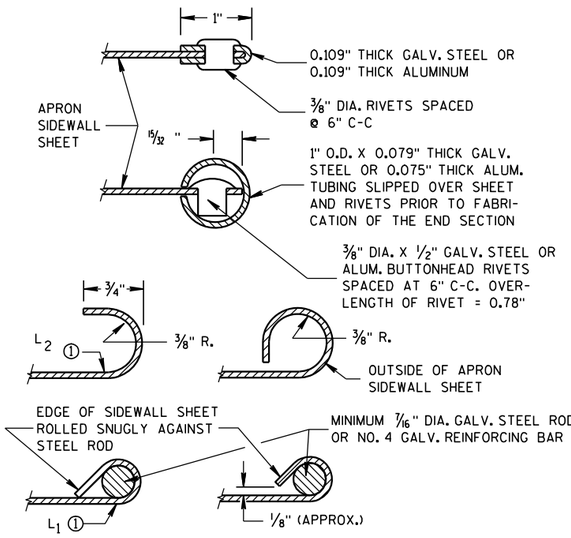
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

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

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

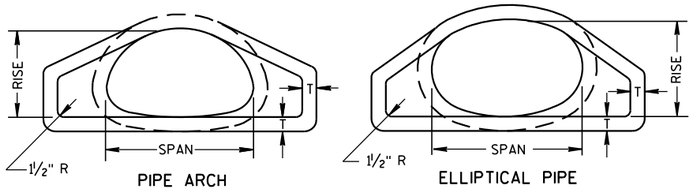
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

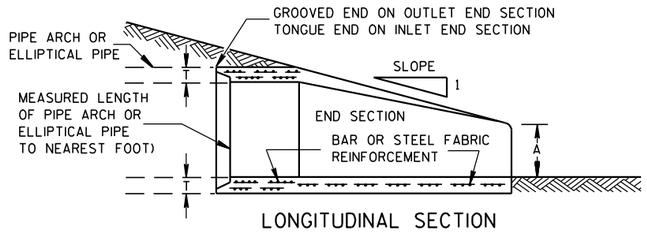
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

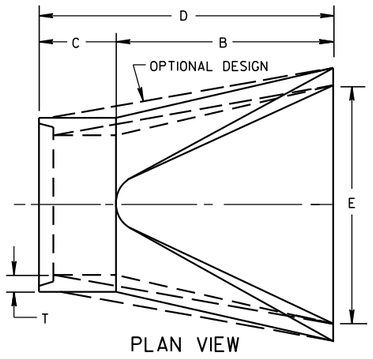
6
S.D.D. 8 F 1-11



END VIEW

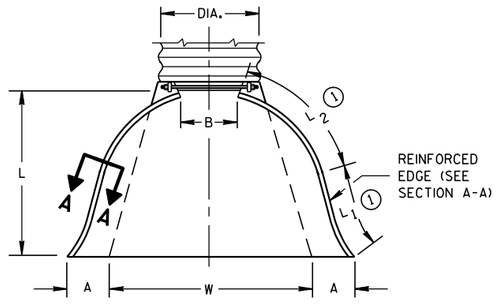


LONGITUDINAL SECTION

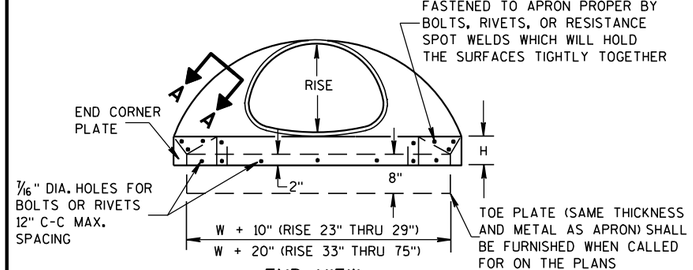


PLAN VIEW

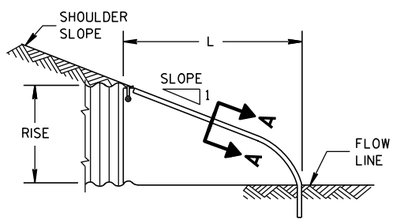
CONCRETE ENDWALLS



PLAN VIEW

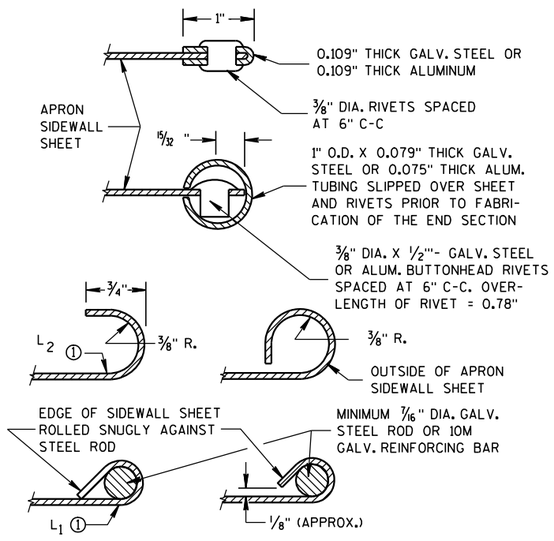


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

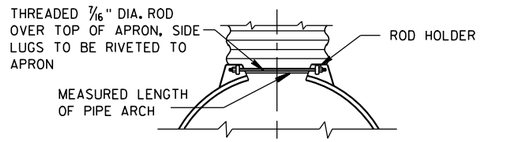
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

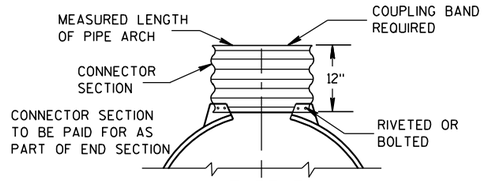
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



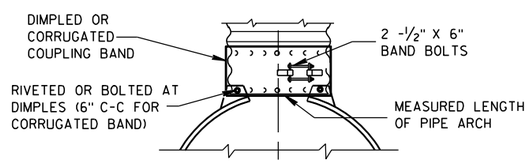
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

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

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

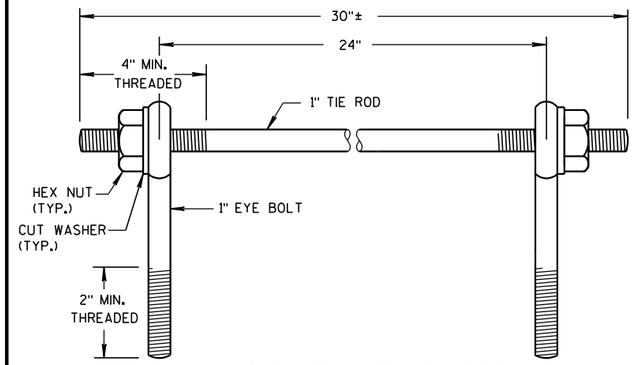
FHWA

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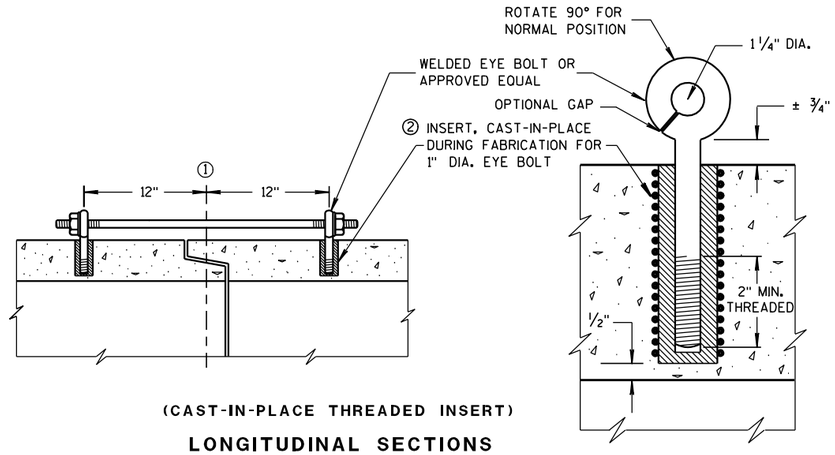
S.D.D. 8 F 2-1

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S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

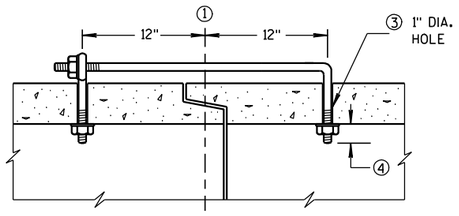
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

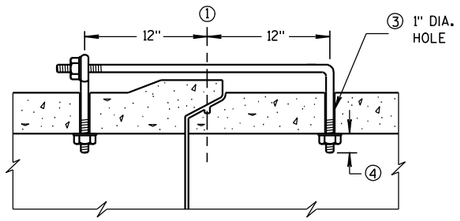
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

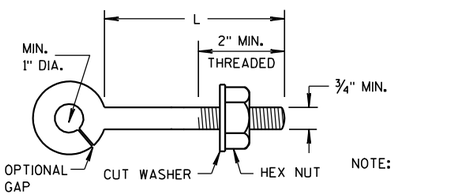


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

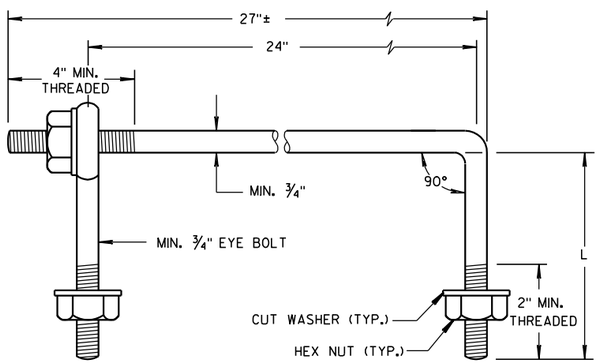
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

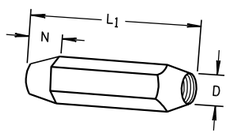
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

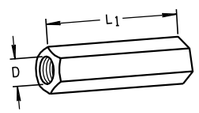
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



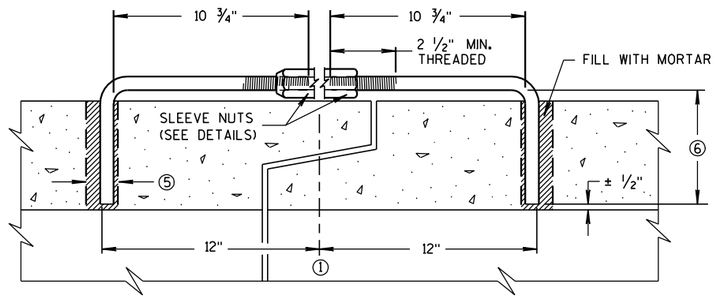
TAPERED



PLAIN

RIGHT AND LEFT THREADS

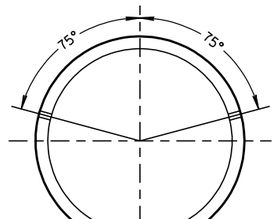
SLEEVE NUTS



LONGITUDINAL SECTION

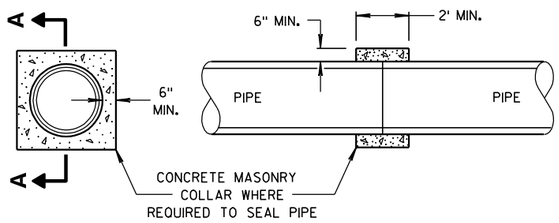
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

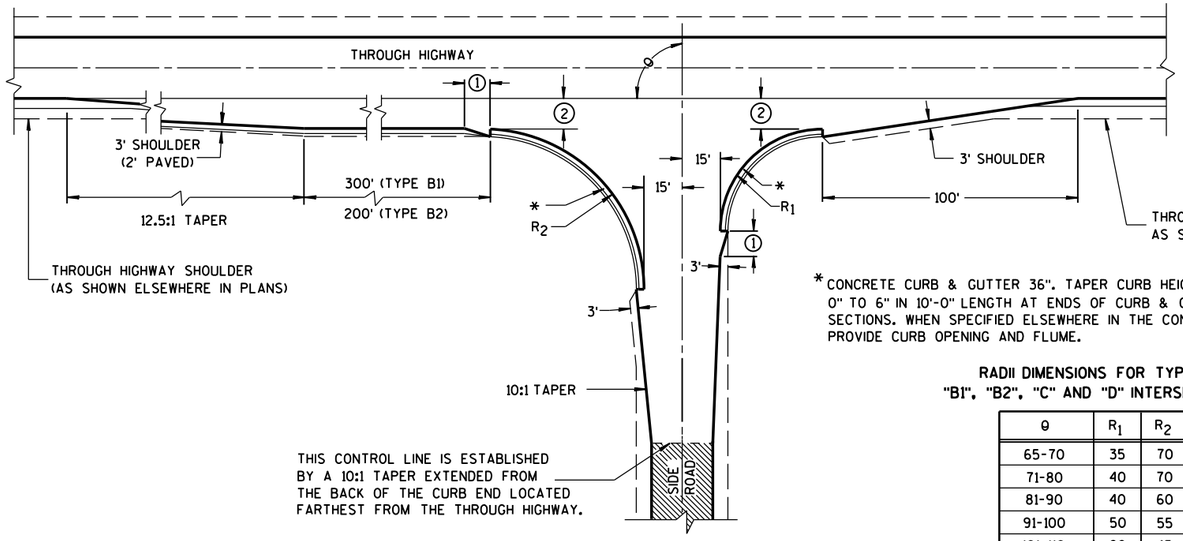
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
147
FHWA

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S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7

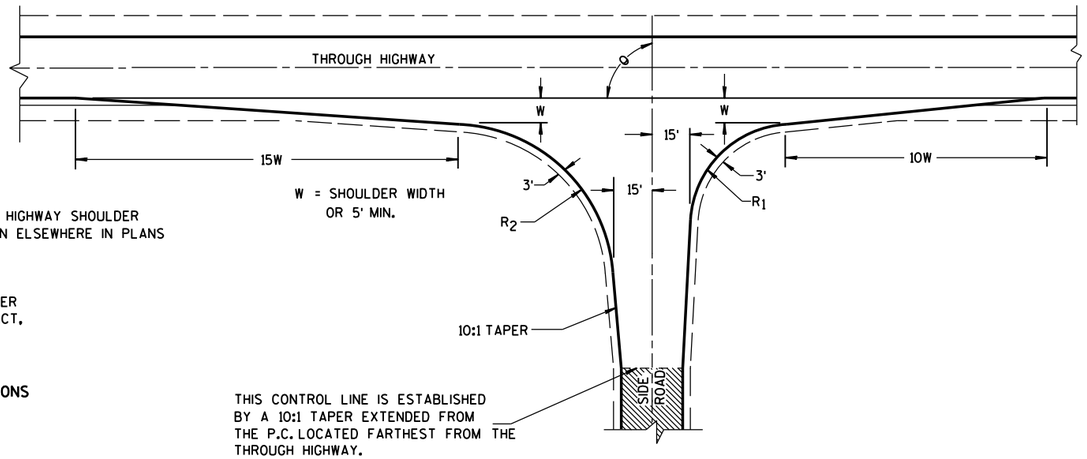


TYPE "B1" AND "B2"

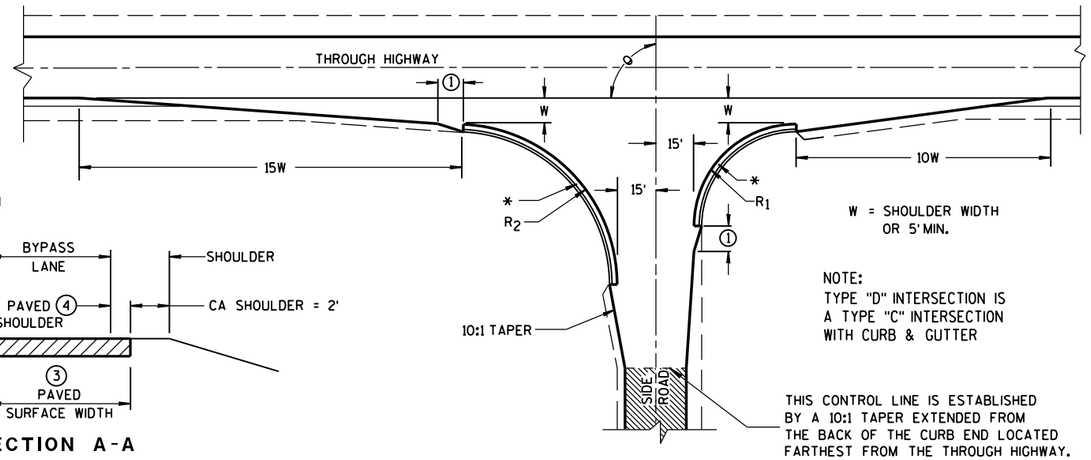
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

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

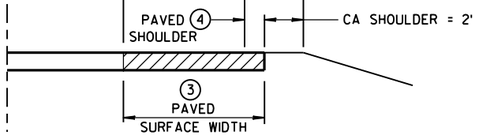
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

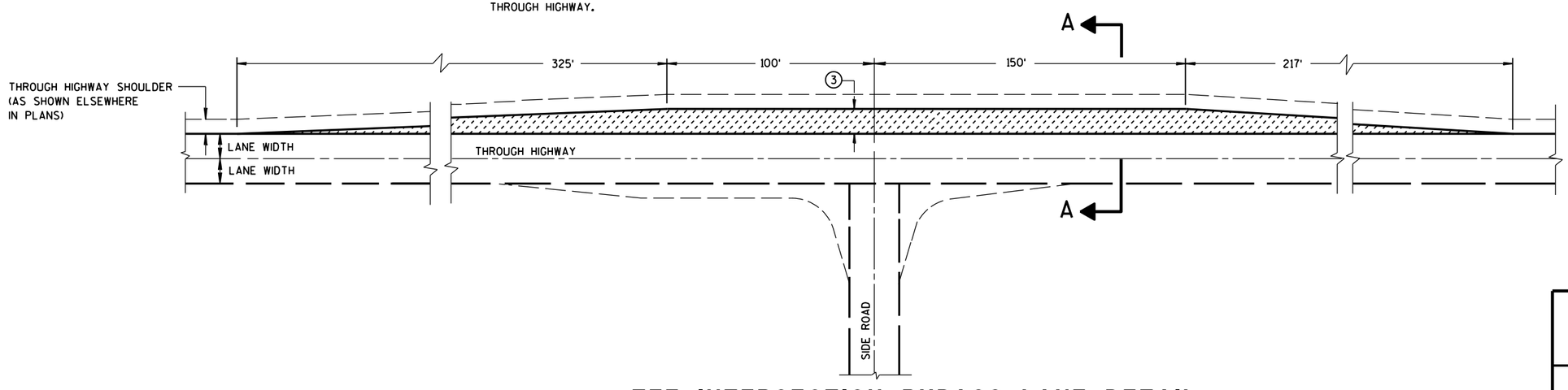
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



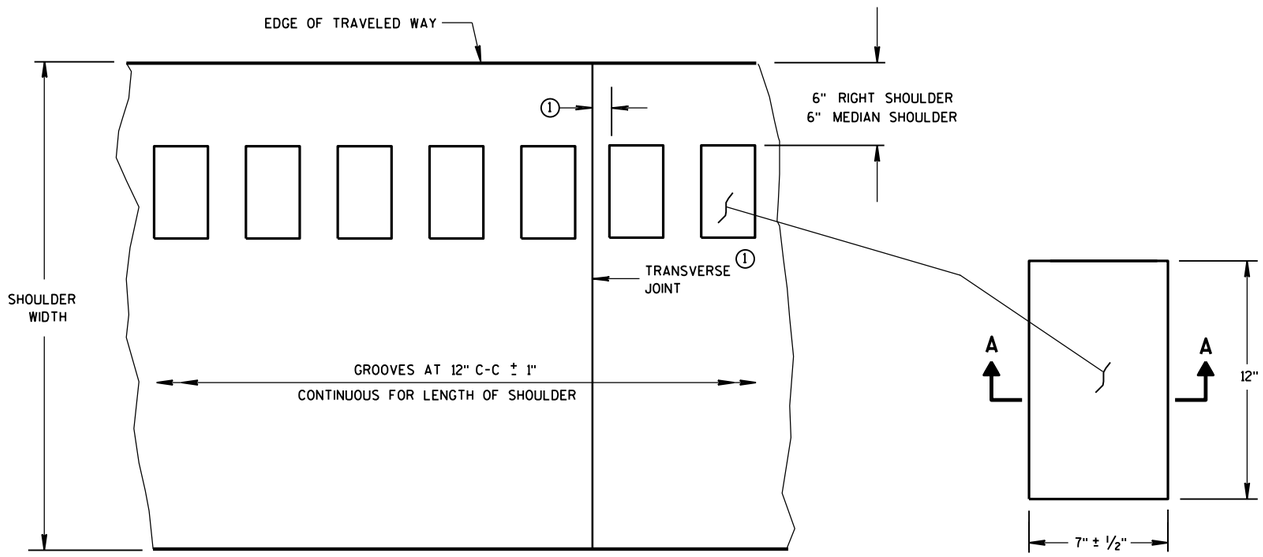
TEE INTERSECTION BYPASS LANE DETAIL

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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S.D.D. 9 A 1-13a



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

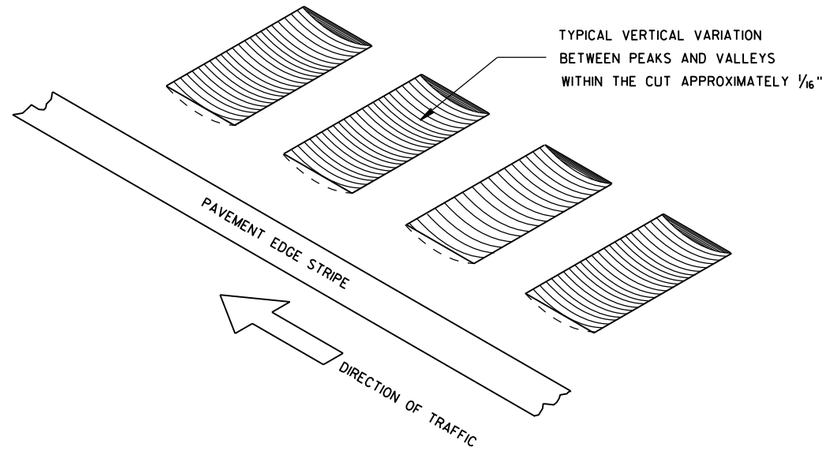
GENERAL NOTES

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

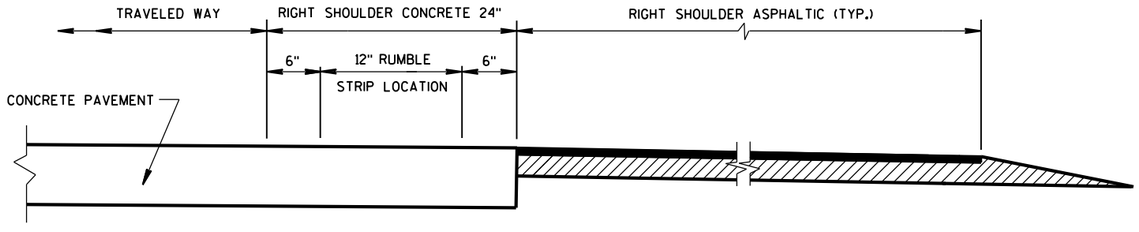
RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

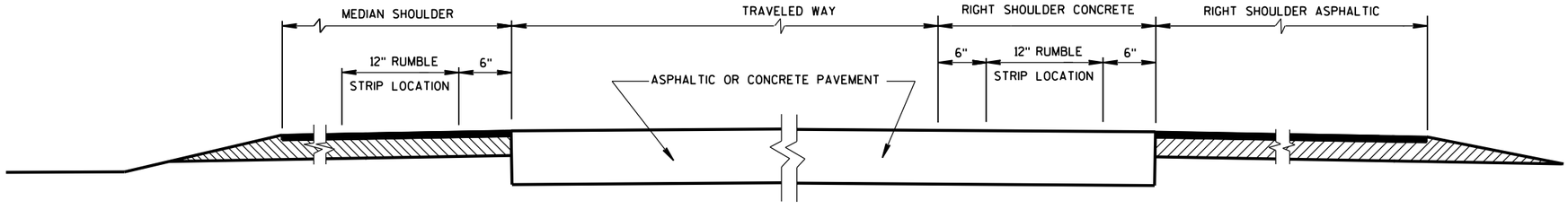
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



ISOMETRIC



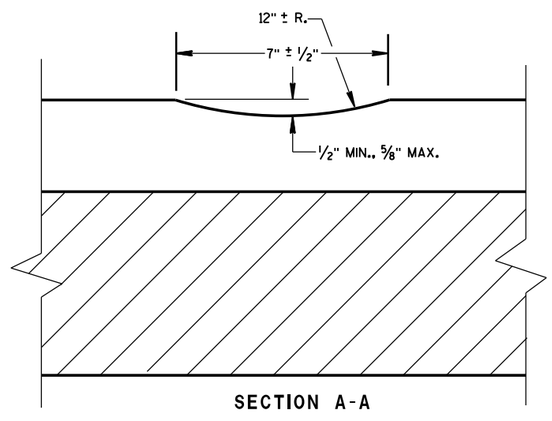
SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS IN RURAL DIVIDED HIGHWAYS

(ONE ROADWAY IS SHOWN)



SECTION A-A

SHOULDER RUMBLE STRIP, MILLING

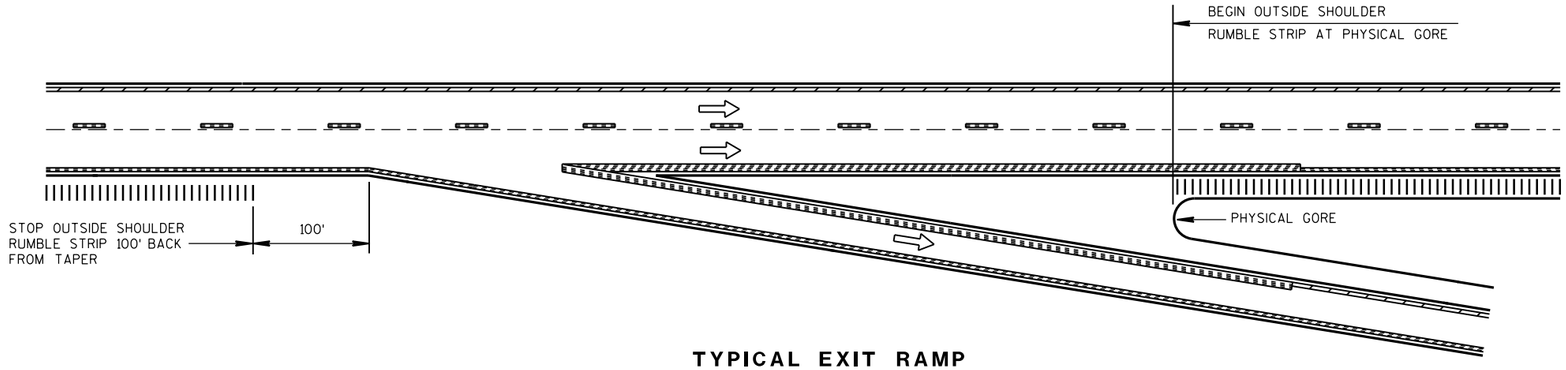
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 13 A 5-5a

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S.D.D. 13 A 5-5a



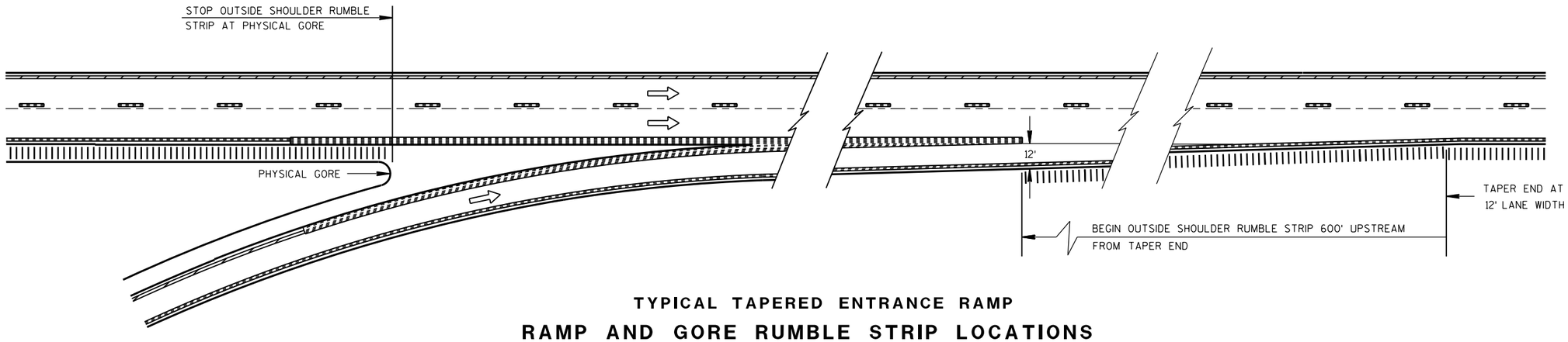
TYPICAL EXIT RAMP

NOTES:

NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

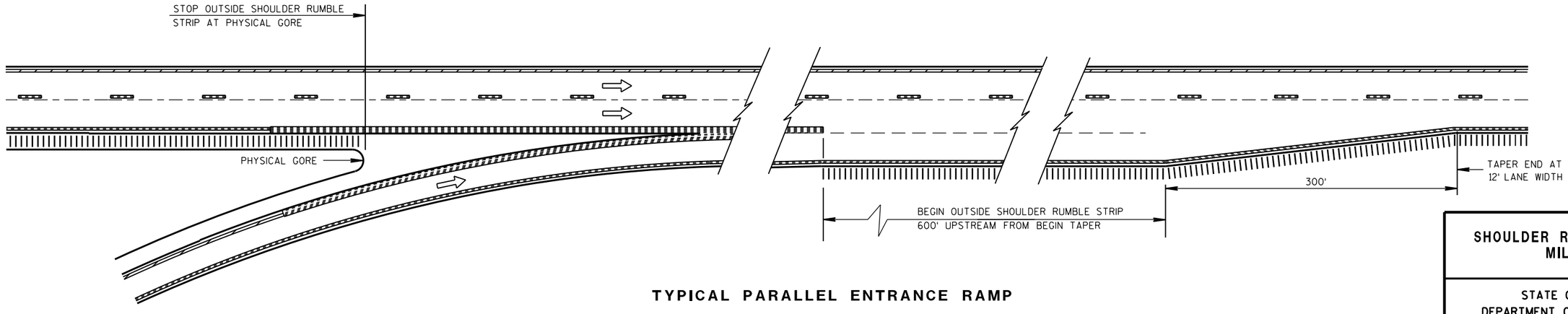
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/2012
DATE

/S/ Jerry H. Zoga
ROADWAY STANDARDS ENGINEER

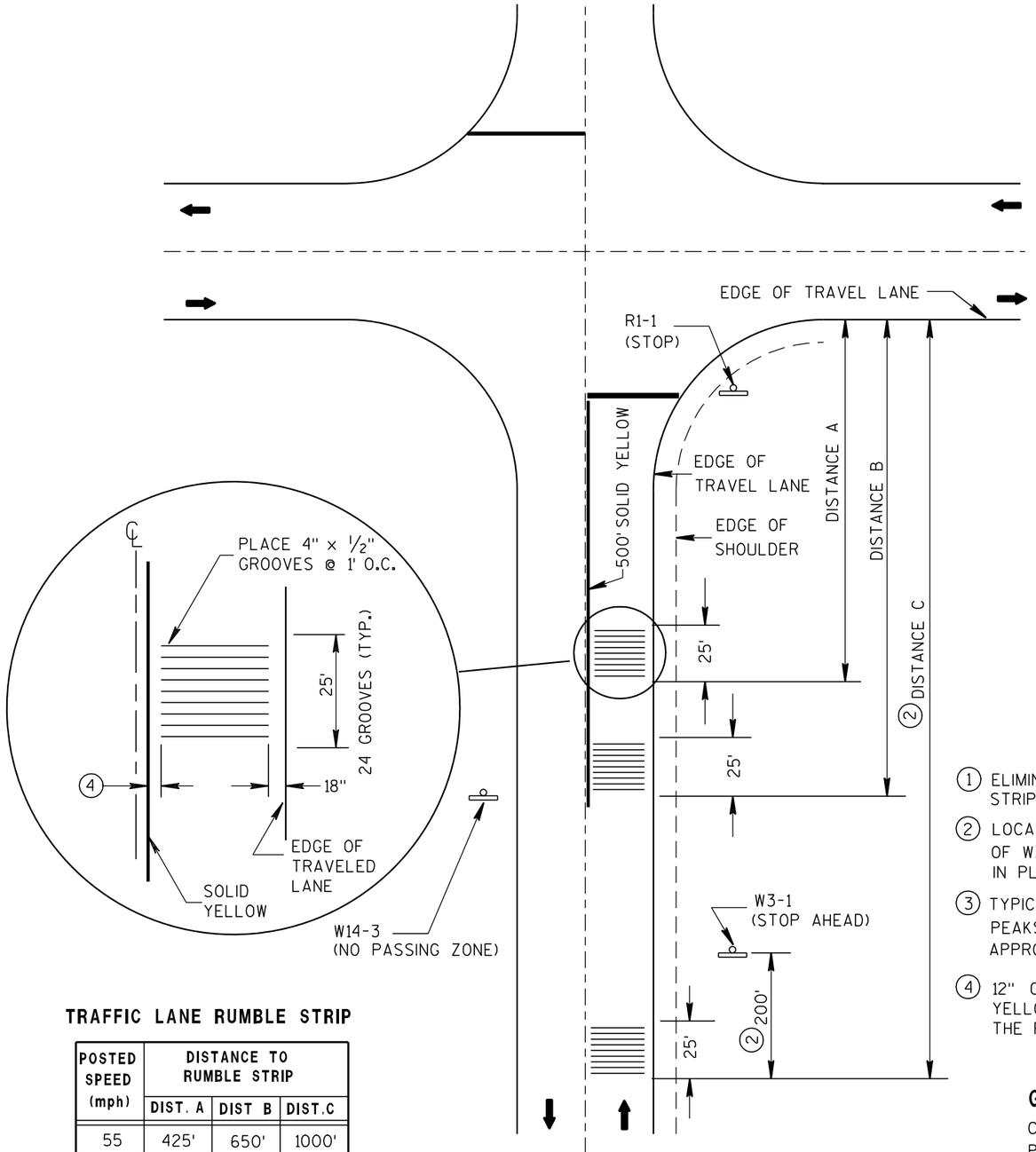
FHWA

6

S.D.D. 13 A 5-5b

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S.D.D. 13 A 5-5b



ARROW SYMBOL (➡) SHOWS DIRECTION OF TRAVEL

PLAN VIEW

RUMBLE STRIP LOCATION

TRAFFIC LANE RUMBLE STRIP

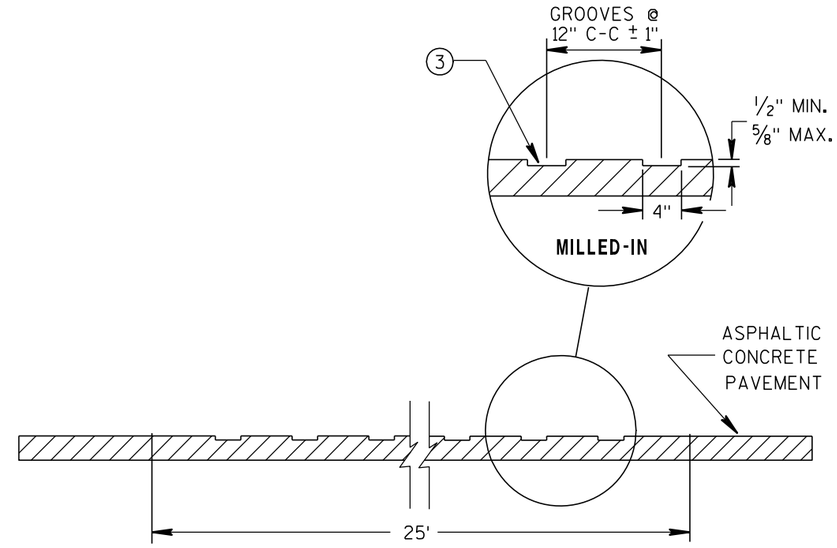
POSTED SPEED (mph)	DISTANCE TO RUMBLE STRIP		
	DIST. A	DIST B	DIST.C
55	425'	650'	1000'
50	325'	450'	800'
45	275'	400'	650'
40	225'	(1)	550'
35	175'	(1)	475'
≤ 30	125'	(1)	425'

(1) ELIMINATE THE MIDDLE SET OF RUMBLE STRIPS.

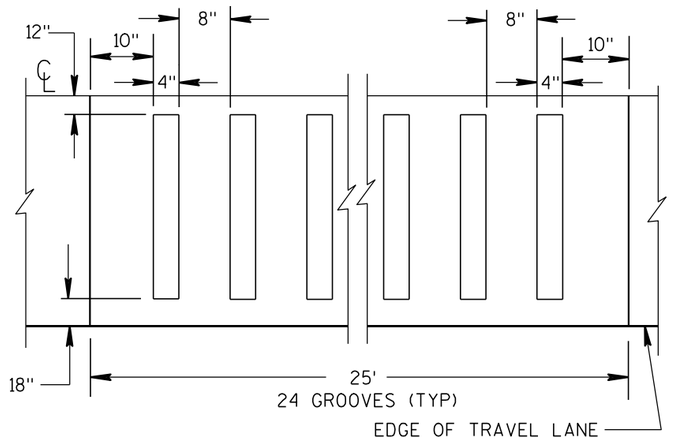
(2) LOCATE RUMBLE STRIP 200' IN ADVANCE OF W3-1 SIGN AS SHOWN. IF W3-1 IS NOT IN PLACE, USE DISTANCE C.

(3) TYPICAL VERTICAL VARIATION BETWEEN PEAKS AND VALLEYS WITHIN THE CUT APPROXIMATELY 1/16"

(4) 12" CLEAR BETWEEN THE SOLID YELLOW LINE AND THE EDGE OF THE RUMBLE.



ELEVATION VIEW



PLAN VIEW

ASPHALTIC PAVEMENT MILLED-IN

GENERAL NOTES

CONTRACTOR SHALL CONFIRM RUMBLE STRIP LOCATION WITH THE ENGINEER PRIOR TO INSTALLATION. THE ENGINEER MAY MODIFY THE RUMBLE STRIP LOCATION AS FIELD CONDITIONS DICTATE.

WHEN ASPHALTIC PAVEMENT IS NEW IN THE RUMBLE AREA THE CONTRACTOR SHALL ALLOW THE PAVEMENT TO CURE A MINIMUM OF 7 DAYS PRIOR TO RUMBLE INSTALLATION.

PAVEMENT MARKING AND SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

ASPHALTIC RUMBLE STRIPS AT INTERSECTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

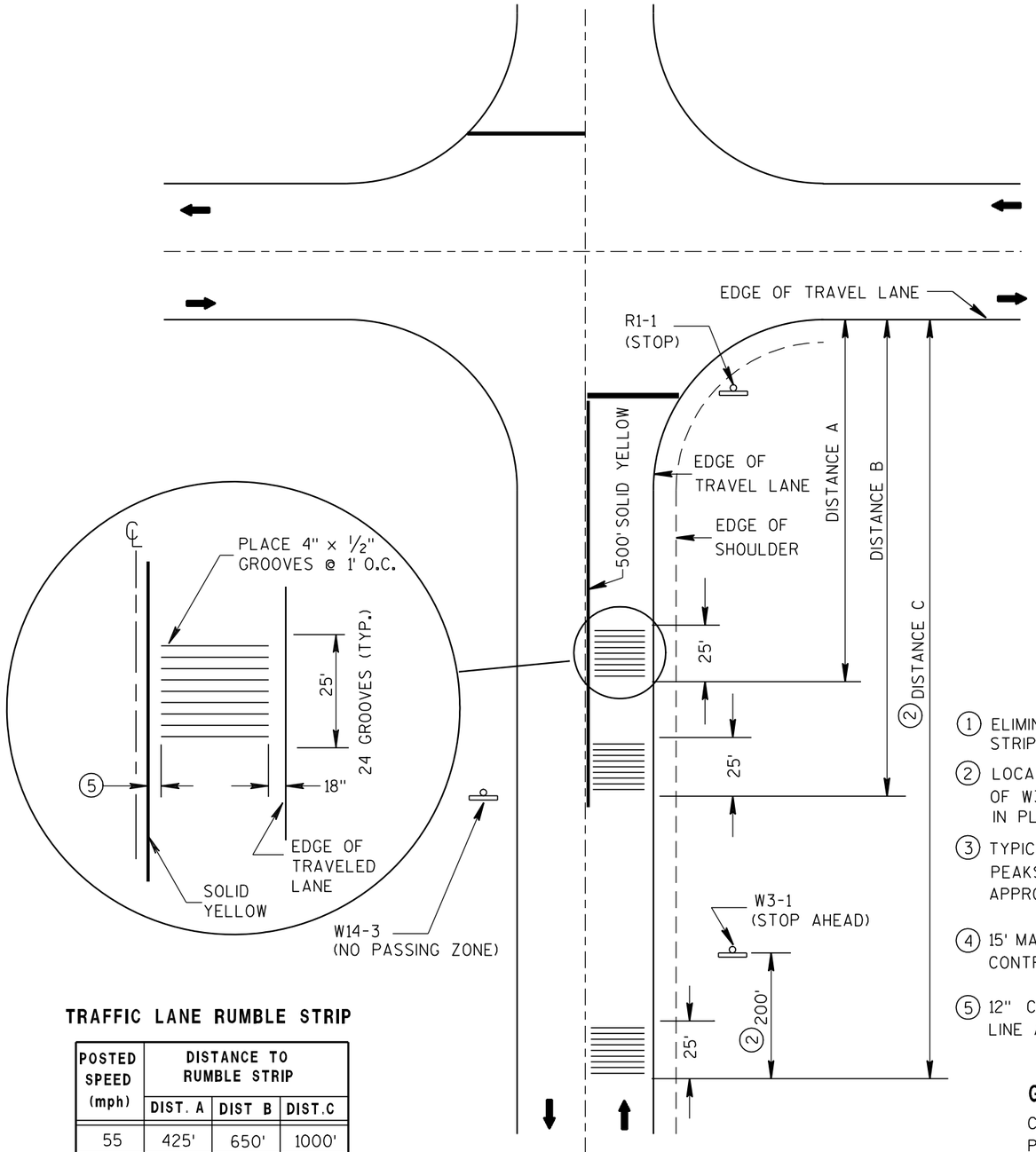
8/17/2011
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS | 151
ENGINEER

FHWA

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S.D.D. 13 A 8-1



ARROW SYMBOL (➡) SHOWS DIRECTION OF TRAVEL

PLAN VIEW

RUMBLE STRIP LOCATION

TRAFFIC LANE RUMBLE STRIP

POSTED SPEED (mph)	DISTANCE TO RUMBLE STRIP		
	DIST. A	DIST B	DIST.C
55	425'	650'	1000'
50	325'	450'	800'
45	275'	400'	650'
40	225'	(1)	550'
35	175'	(1)	475'
≤ 30	125'	(1)	425'

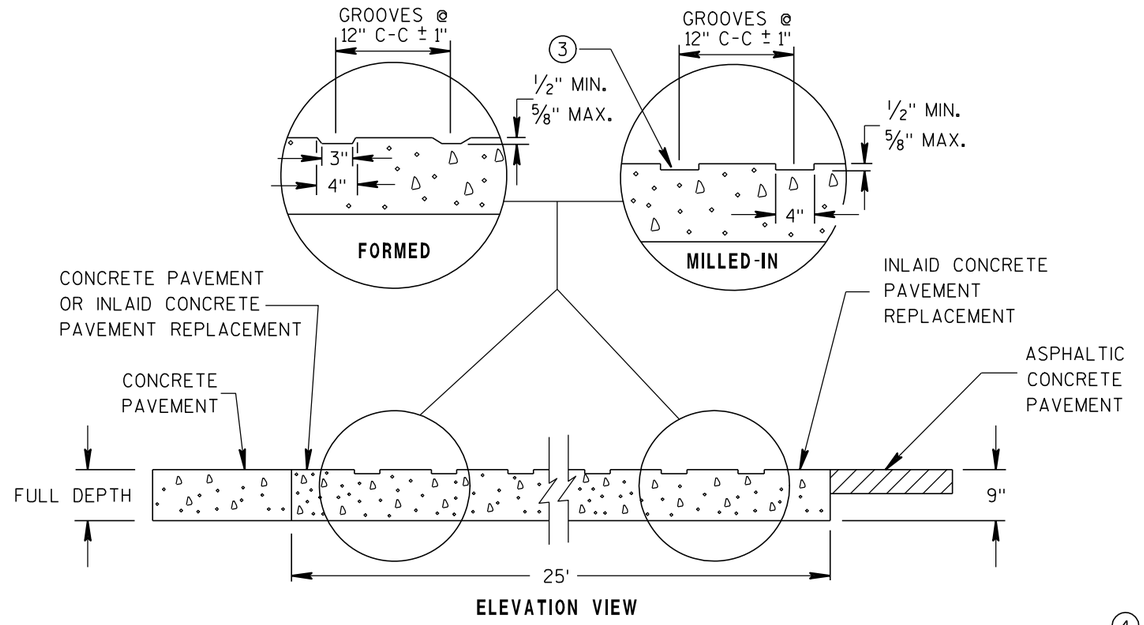
(1) ELIMINATE THE MIDDLE SET OF RUMBLE STRIPS.

(2) LOCATE RUMBLE STRIP 200' IN ADVANCE OF W3-1 SIGN AS SHOWN. IF W3-1 IS NOT IN PLACE, USE DISTANCE C.

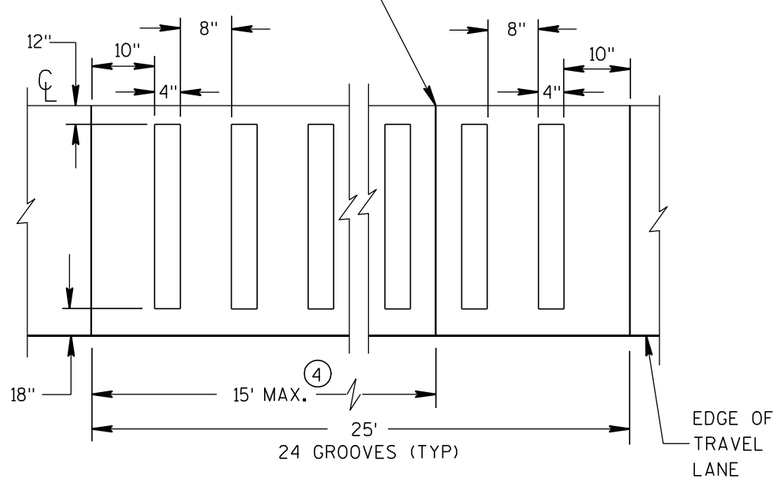
(3) TYPICAL VERTICAL VARIATION BETWEEN PEAKS AND VALLEYS WITHIN THE CUT APPROXIMATELY 1/16"

(4) 15' MAX. SPACING FOR TRANSVERSE CONTRACTION JOINT

(5) 12" CLEAR BETWEEN THE SOLID YELLOW LINE AND THE EDGE OF THE RUMBLE



ELEVATION VIEW



PLAN VIEW

CONCRETE PAVEMENT MILLED-IN OR TOOLED-IN

GENERAL NOTES

CONTRACTOR SHALL CONFIRM RUMBLE STRIP LOCATION WITH THE ENGINEER PRIOR TO INSTALLATION. THE ENGINEER MAY MODIFY THE RUMBLE STRIP LOCATION AS FIELD CONDITIONS DICTATE.

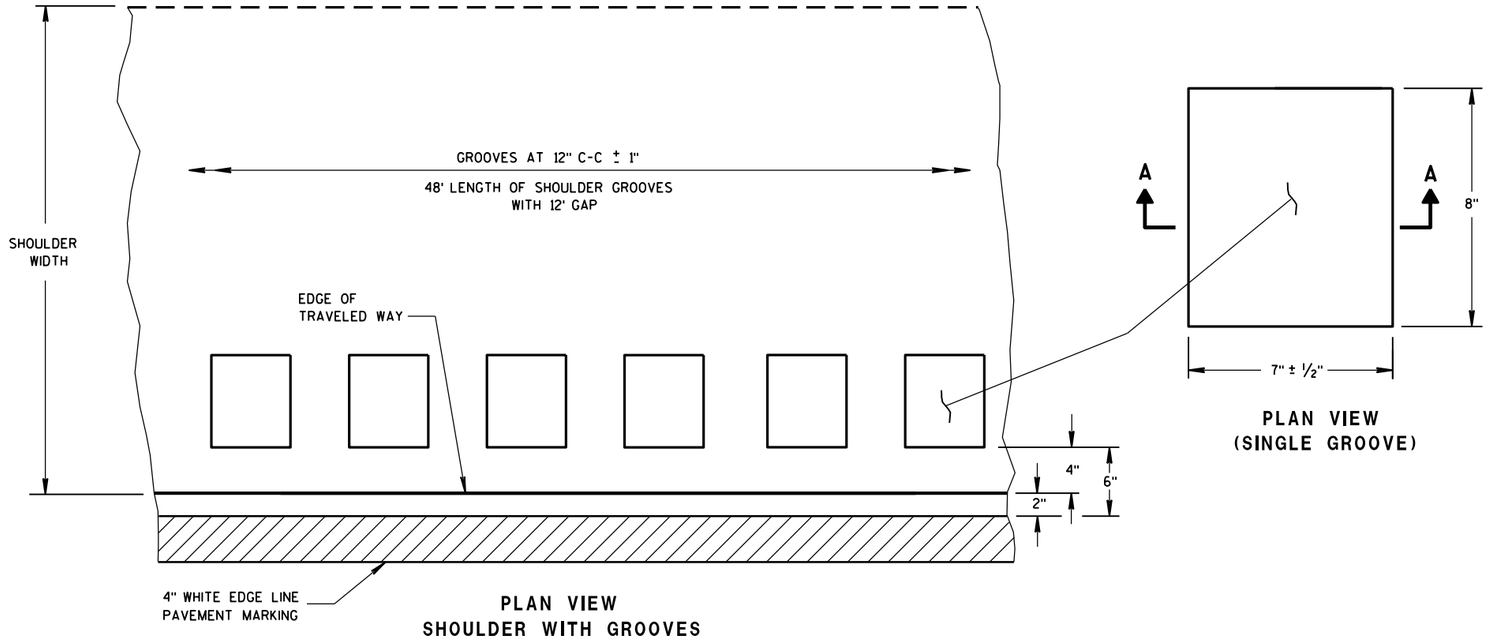
EXTEND CONCRETE FROM THE ℄ TO THE EDGE OF TRAVEL WAY.

PAVEMENT MARKING AND SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

CONCRETE RUMBLE STRIPS AT INTERSECTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/17/2011 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

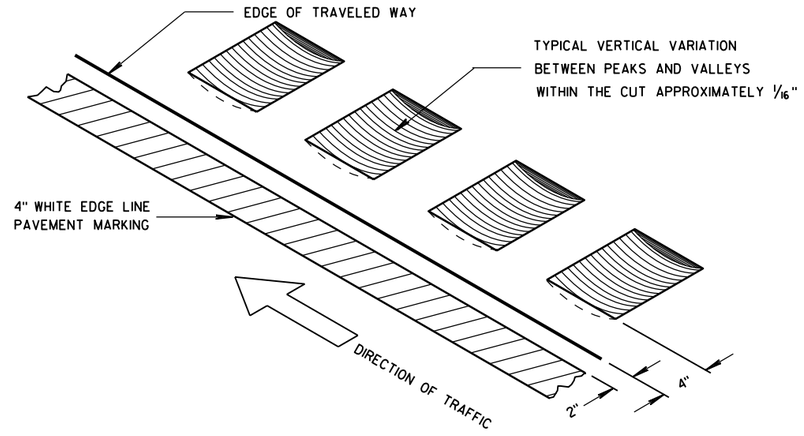
PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP

GENERAL NOTES

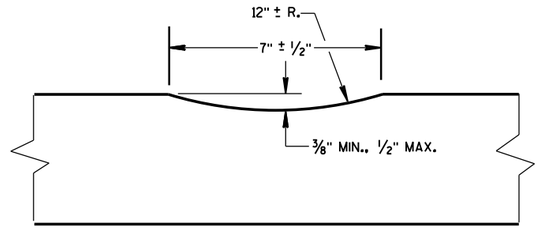
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

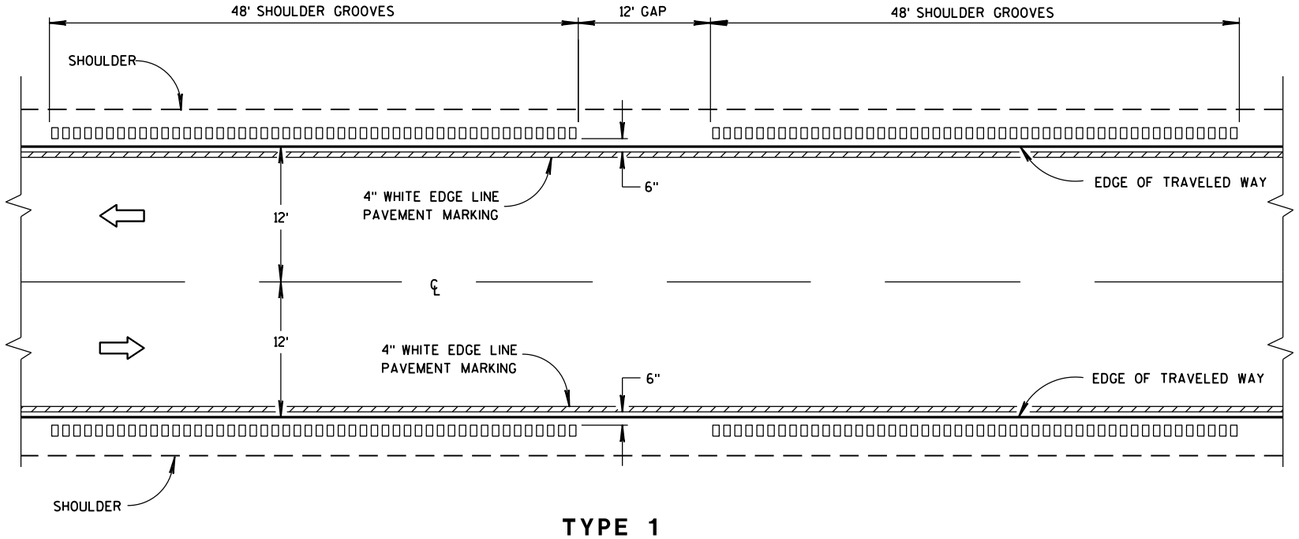
(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



ISOMETRIC



SECTION A-A

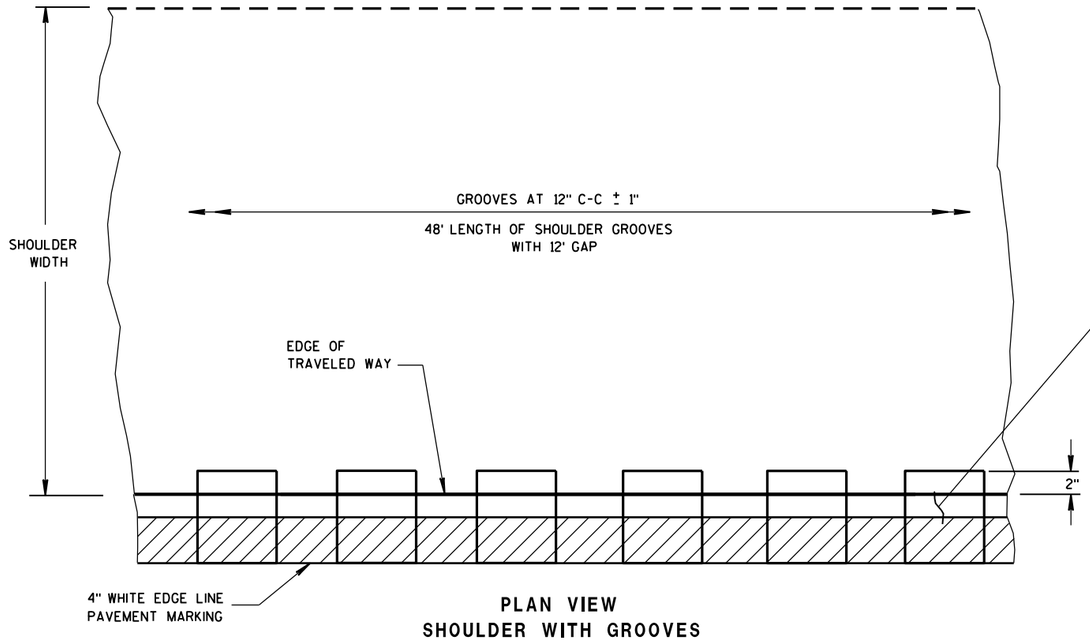


TYPE 1
2-LANE SHOULDER RUMBLE STRIP

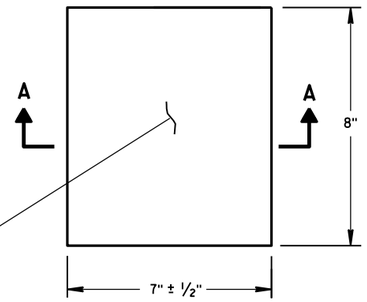
2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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S.D.D. 13 A 10-1a



PLAN VIEW
SHOULDER WITH GROOVES



PLAN VIEW
(SINGLE GROOVE)

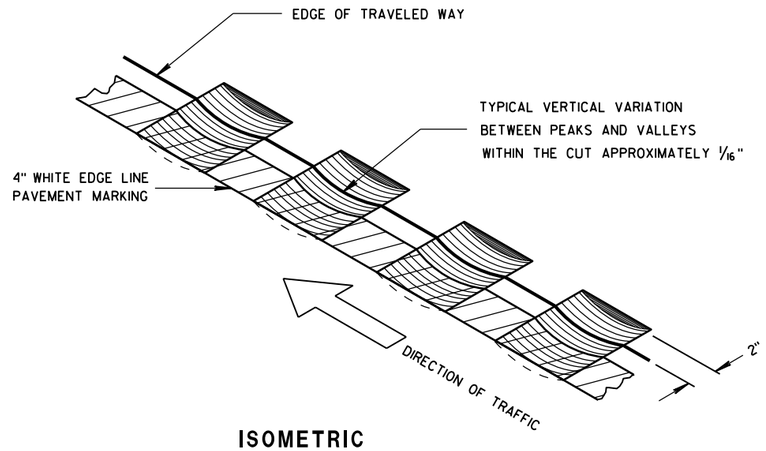
PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP

GENERAL NOTES

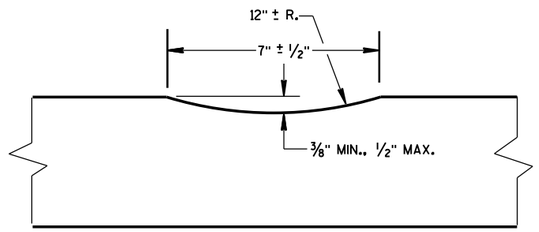
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

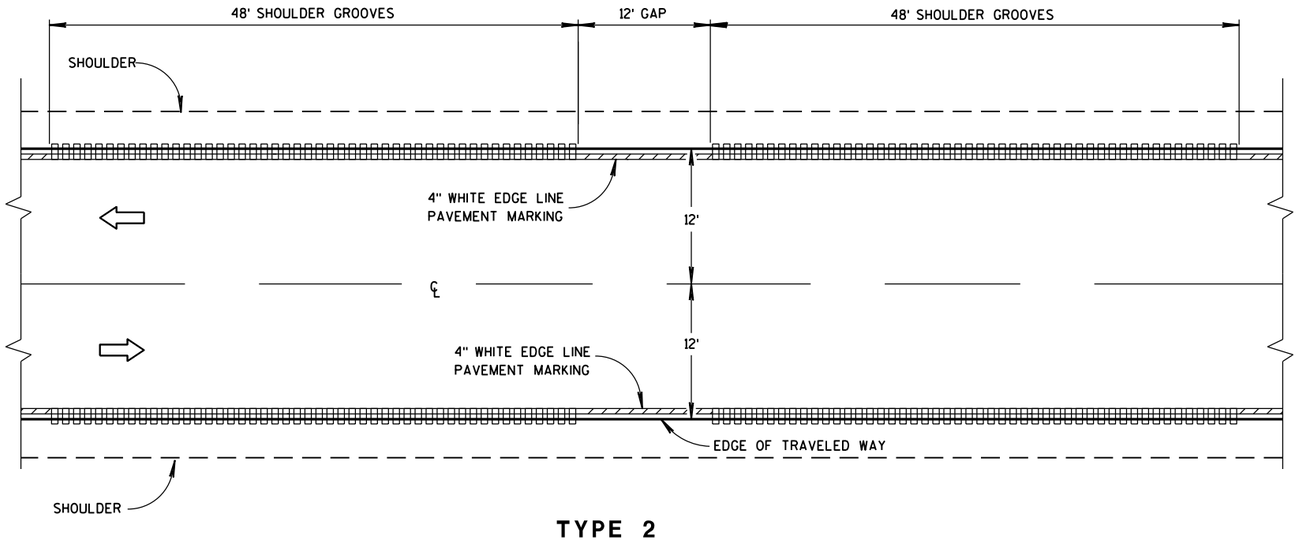
(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



ISOMETRIC



SECTION A-A



TYPE 2
2-LANE SHOULDER RUMBLE STRIP

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

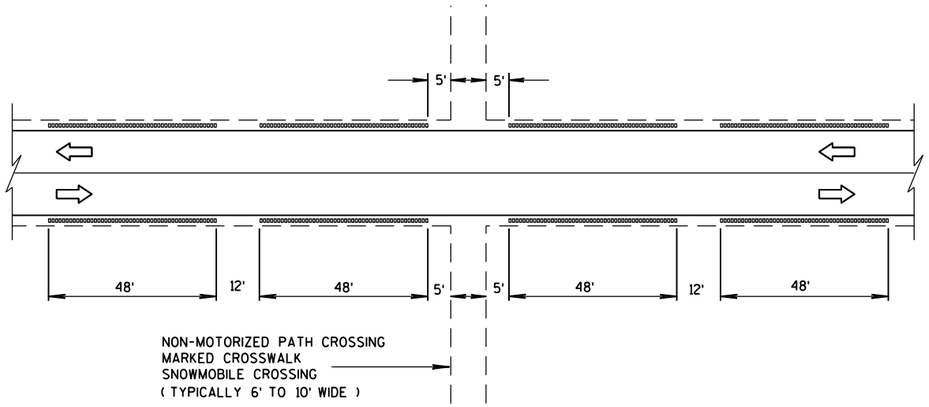
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

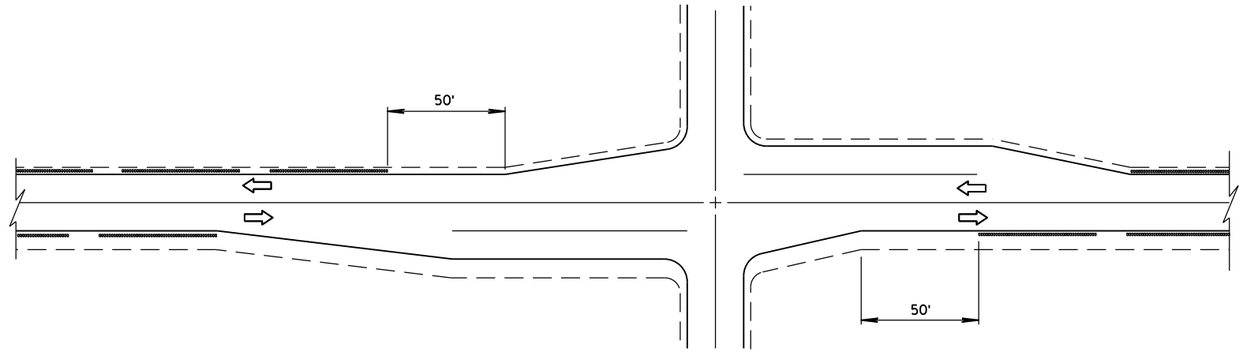
S.D.D. 13 A 10-1b

6

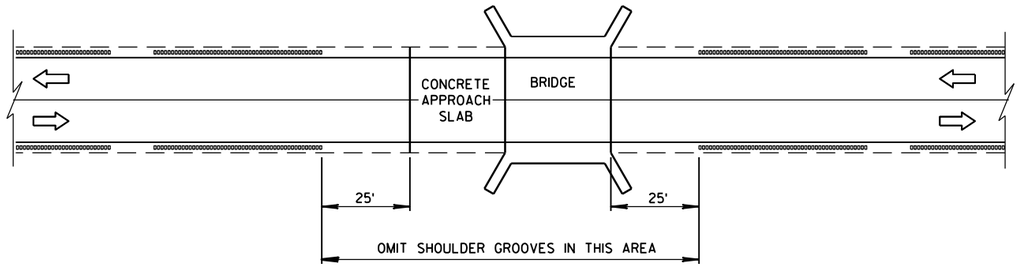
S.D.D. 13 A 10-1b



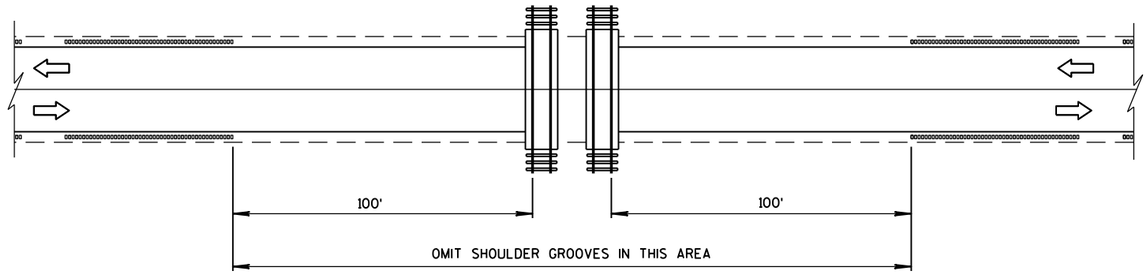
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



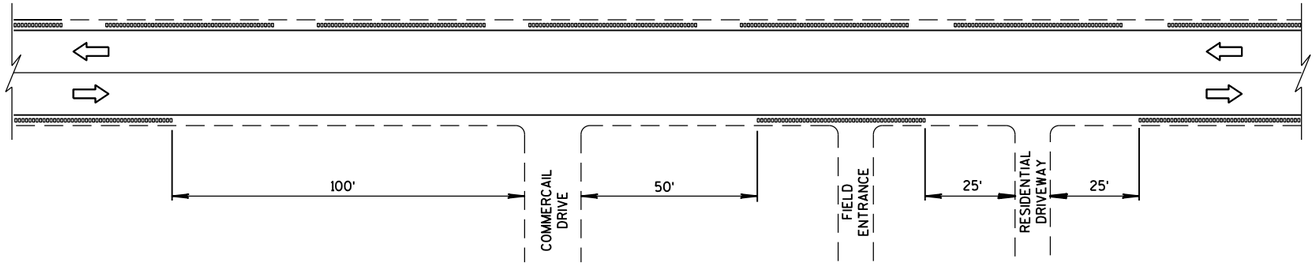
SHOULDER GROOVES AT INTERSECTIONS



SHOULDER GROOVES AT BRIDGES



SHOULDER GROOVES AT RAILROADS



SHOULDER GROOVES AT DRIVEWAYS (1)

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

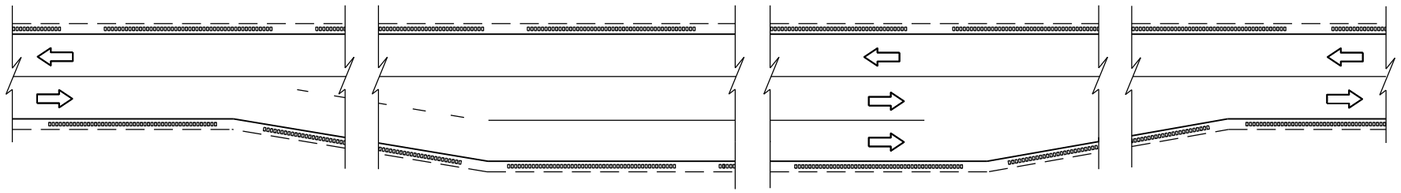
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

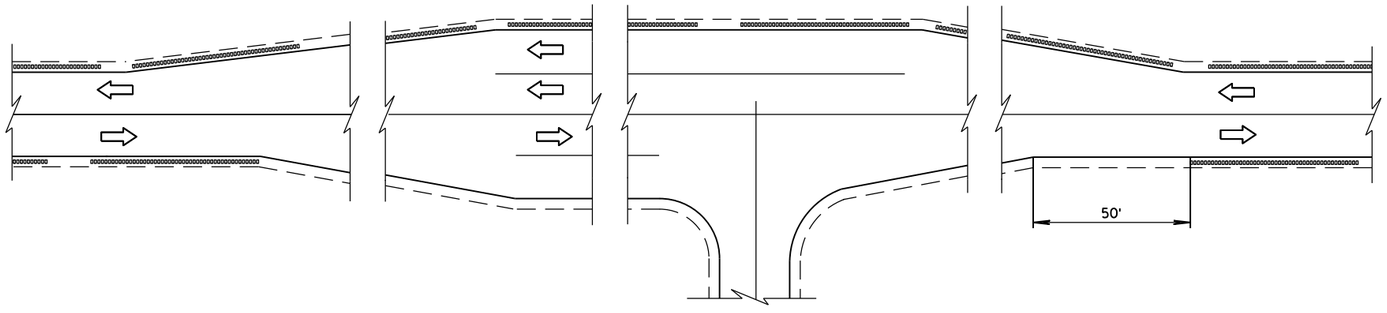
S.D.D. 13 A 10-1c

6

S.D.D. 13 A 10-1c



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

6

6

S.D.D. 13 A 10-1d

S.D.D. 13 A 10-1d

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

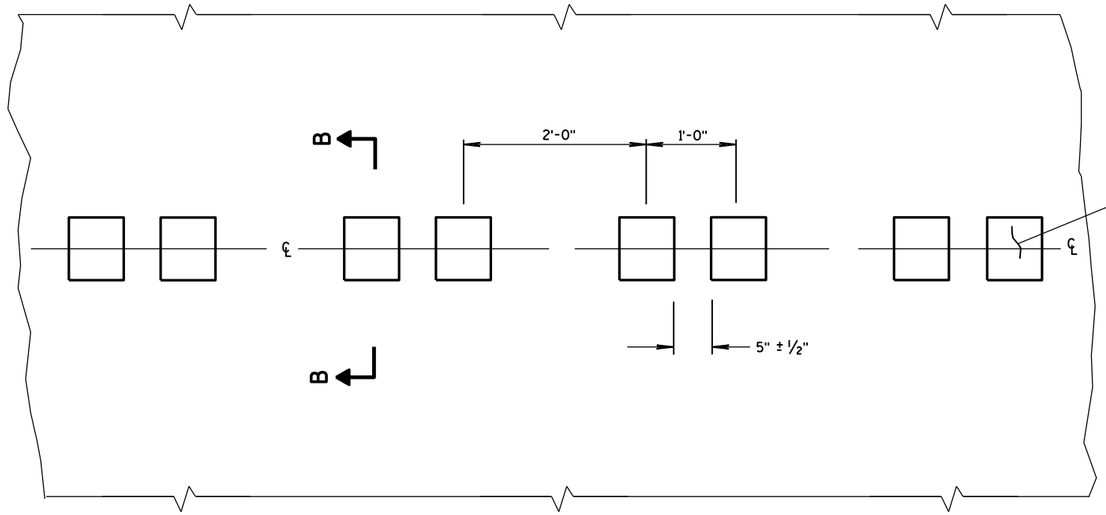
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

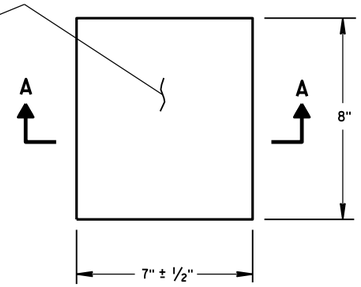
12/17/2012
DATE

/S/ Jerry H. Zoga
ROADWAY STANDARDS ENGINEER

FHWA



PLAN VIEW
CENTER LINE WITH GROOVES



PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

GENERAL NOTES

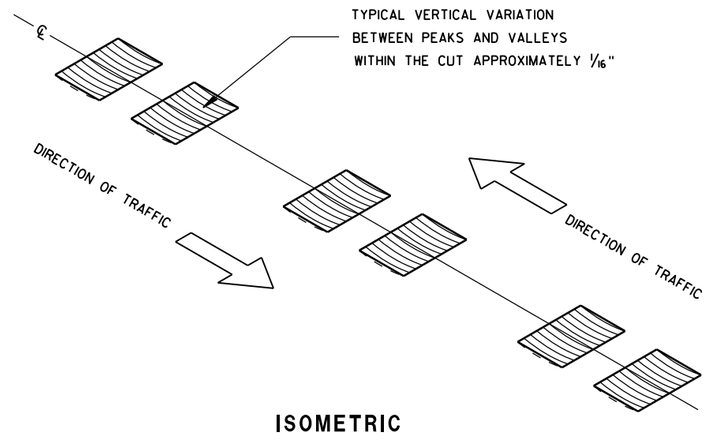
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

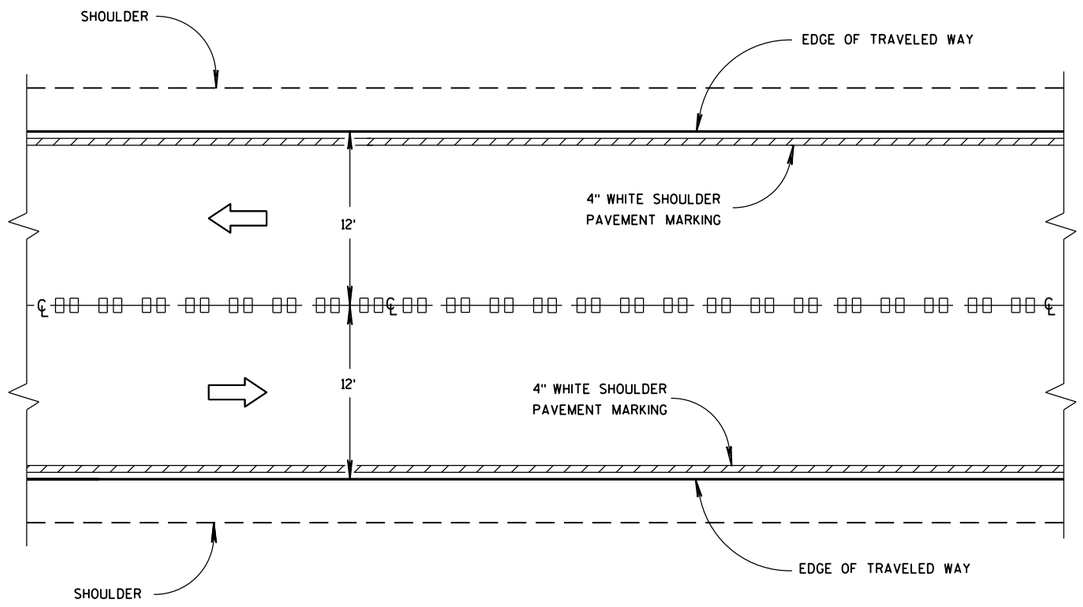
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

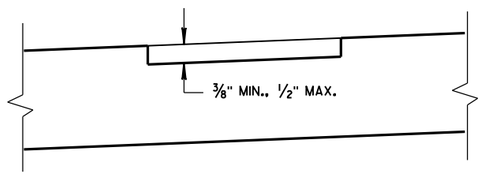
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



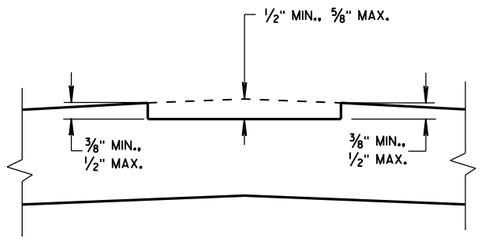
ISOMETRIC



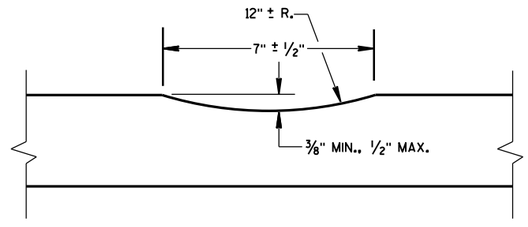
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

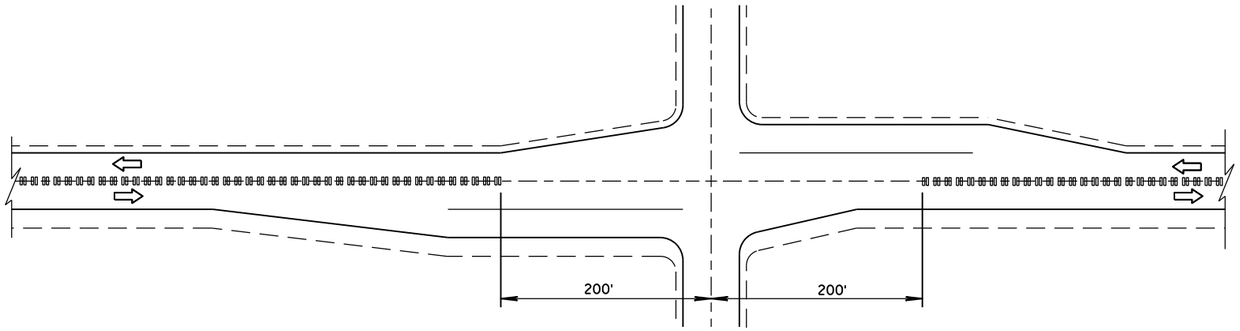
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

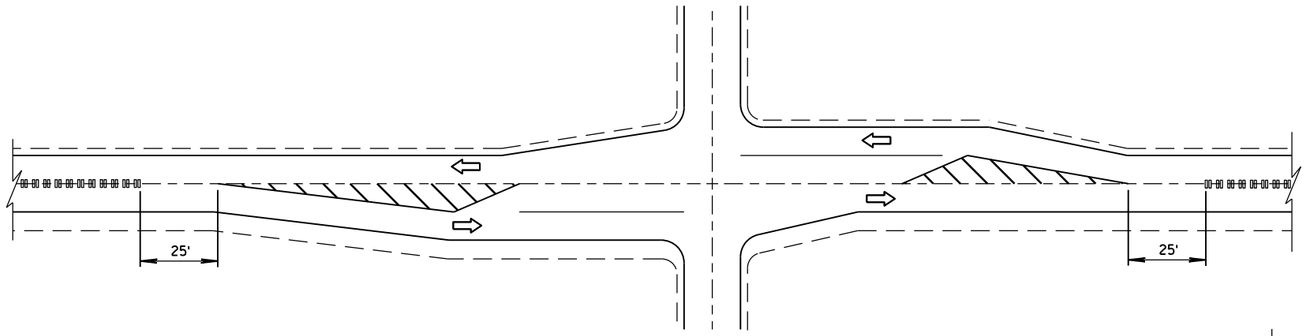
S.D.D. 13 A 11-2a

6

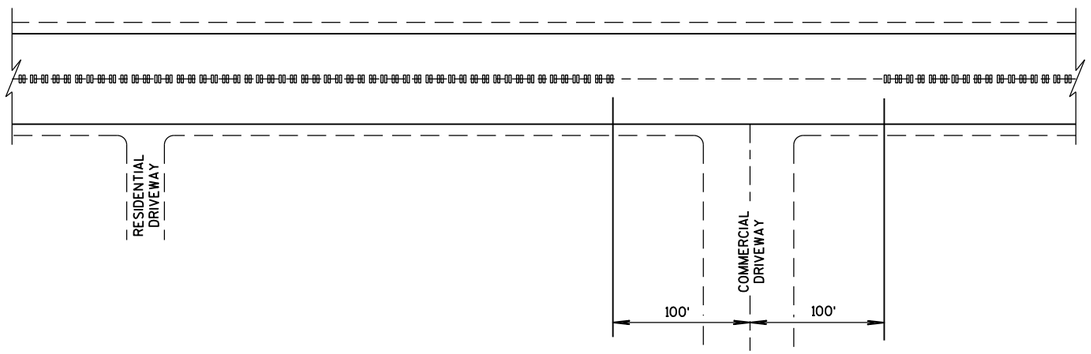
S.D.D. 13 A 11-2a



CENTER LINE GROOVES AT INTERSECTIONS

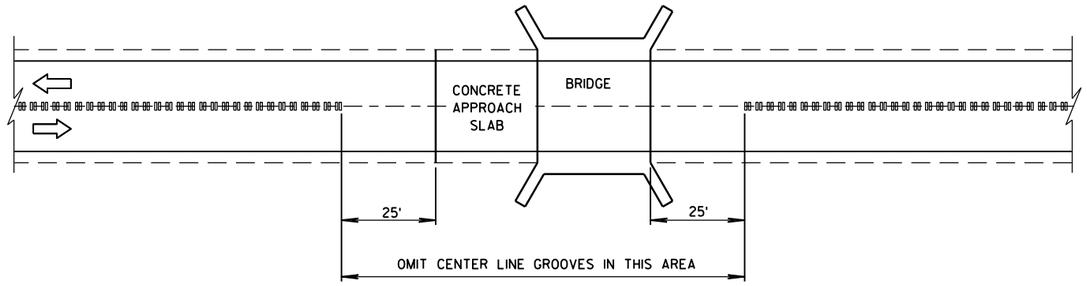


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

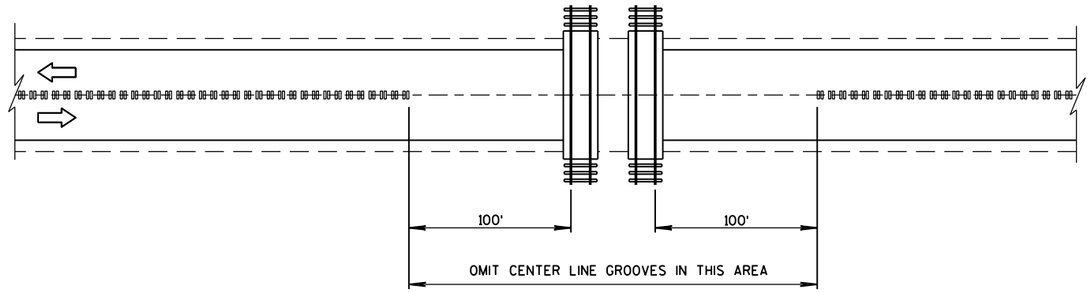


CENTER LINE GROOVES AT DRIVEWAYS (1)

(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

6

S.D.D. 13 A 11-2b

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/15/2013
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

NT

FHWA

6

S.D.D. 13 A 11-2b

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) 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.

(2) 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.

(3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

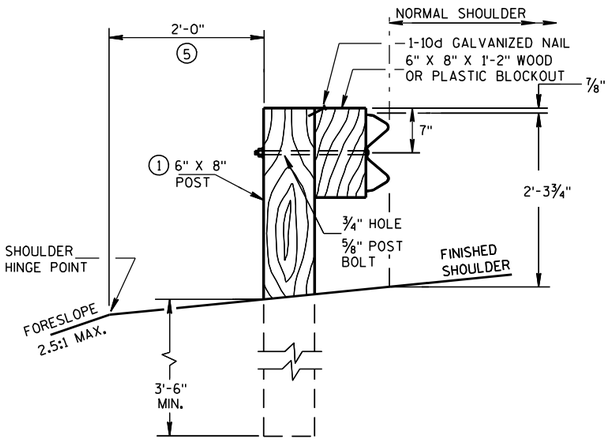
(4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.

(5) 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).

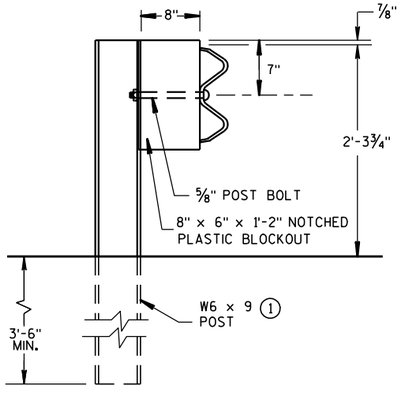
(6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

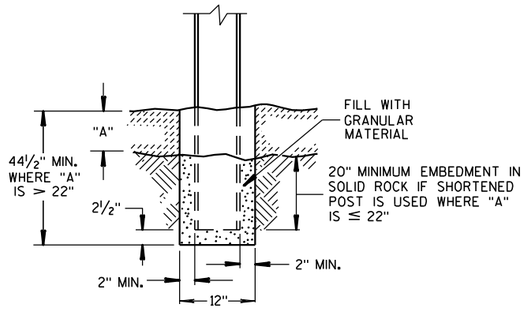
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



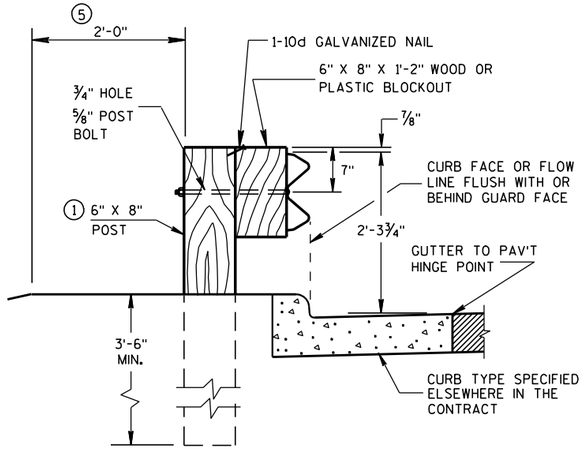
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



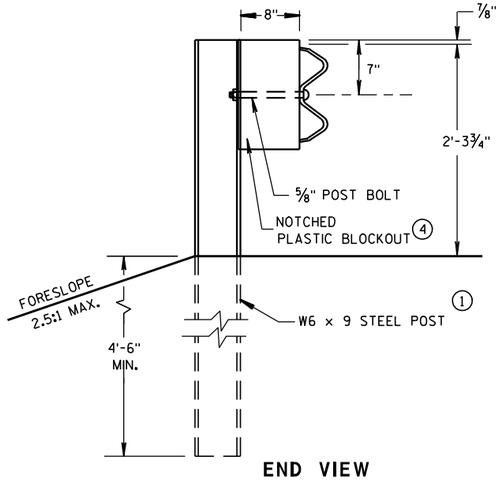
END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



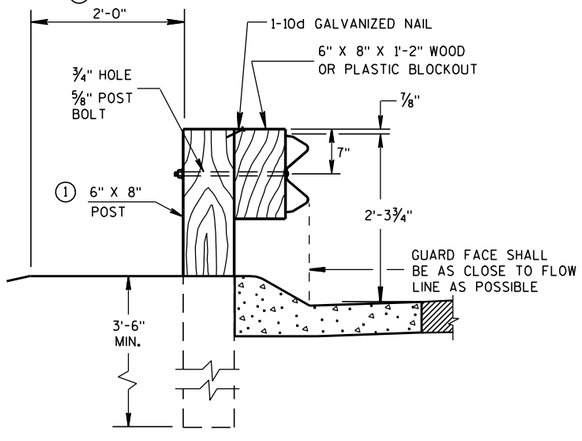
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)



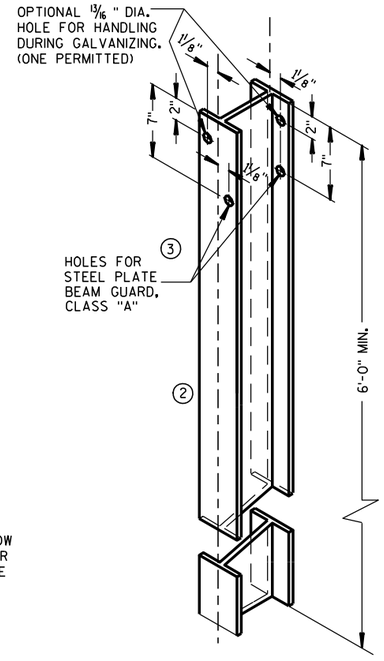
END VIEW
LOCATED ALONG A CURBED ROADWAY



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

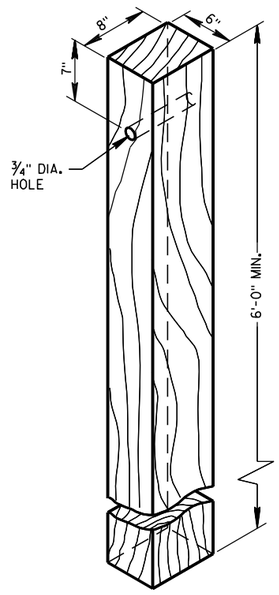


END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

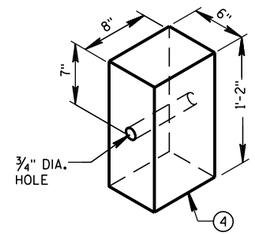


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

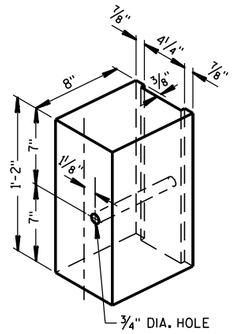
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



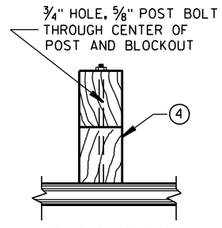
WOOD POST
(6"X8") NOMINAL



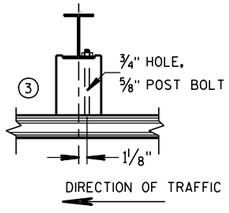
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



TYPICAL NOTCHED (1)
PLASTIC BLOCKOUT
FOR STEEL POSTS



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



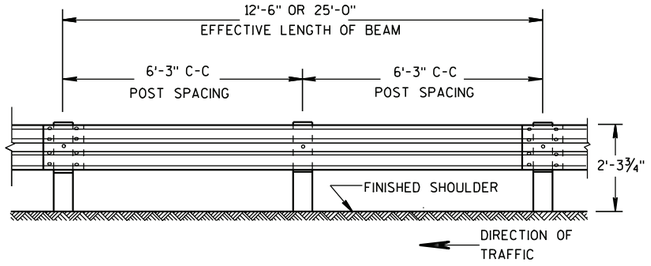
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

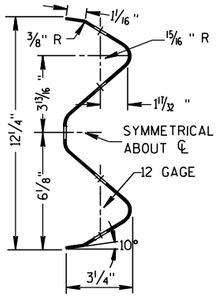
TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

6
S.D.D. 14 B 15-7a

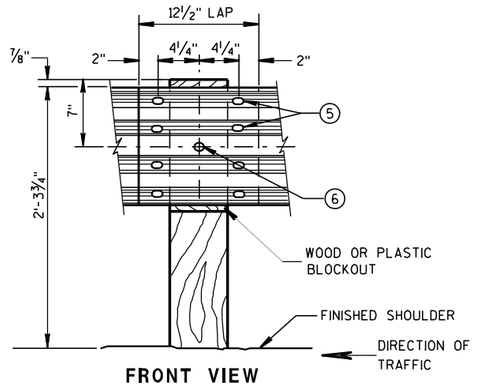


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM

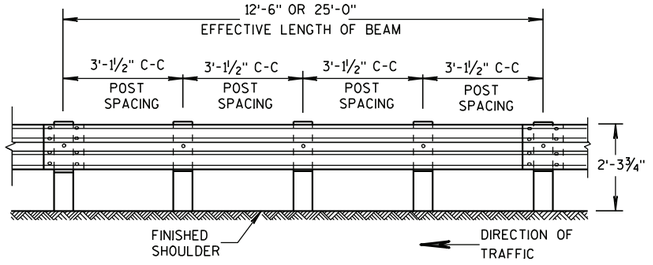


FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

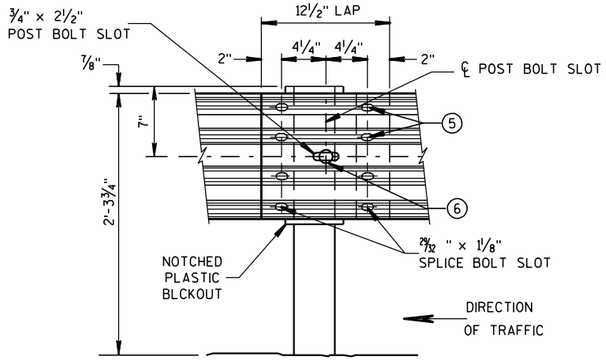
GENERAL NOTES

1. PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.
2. DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
3. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
4. PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.
5. 8 - 5/8" ϕ X 2 " BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
6. 5/8" ϕ X 1'-6" BUTTON HEAD BOLT AND AND RECESS NUT WITH ROUND WASHER UNDER NUT.



FRONT VIEW

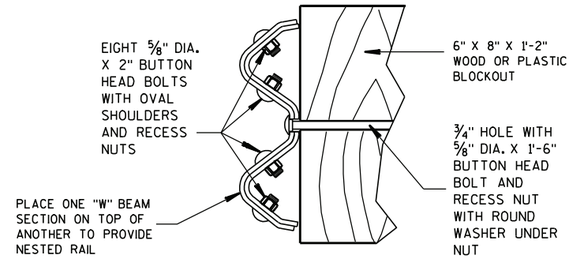
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

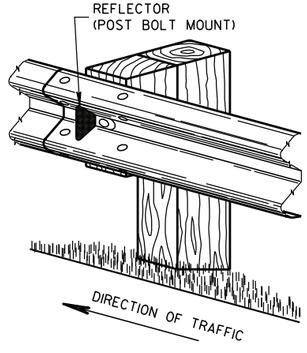


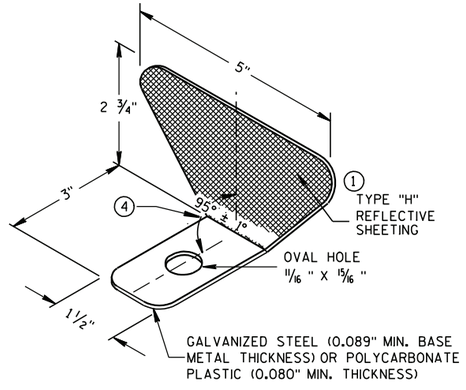
NESTED W BEAM (NW)

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

REFLECTOR SPACING (2)

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 (3)	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2 (4)	



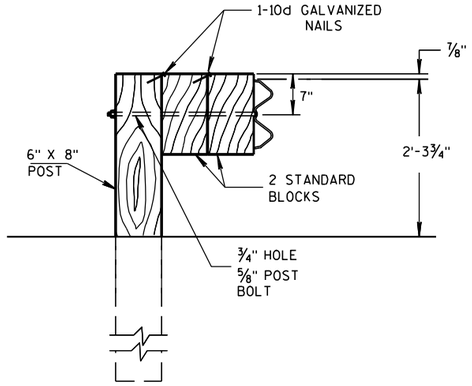


ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (1)

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

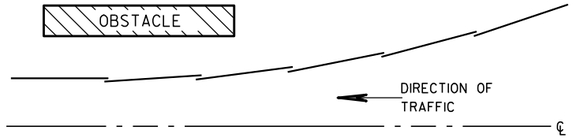
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 15-7b

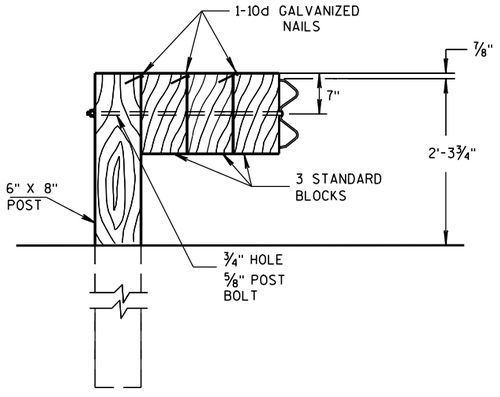


DETAIL FOR DOUBLE BLOCKS

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

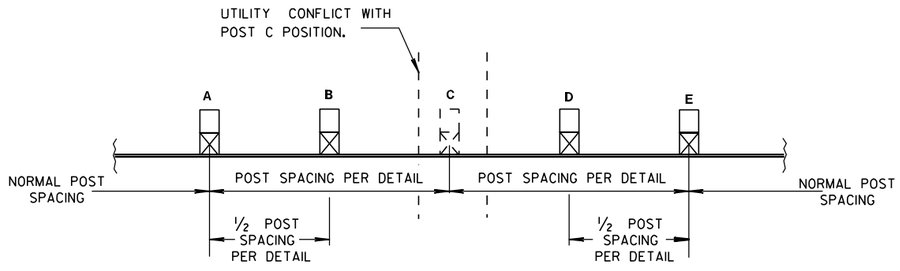


PLAN VIEW
BEAM LAPPING DETAIL



DETAIL FOR TRIPLE BLOCKS

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



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

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.

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/11 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER

FHWA

ENT

6

S.D.D. 14 B 15-7c

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) 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.

(2) 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.

(3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.

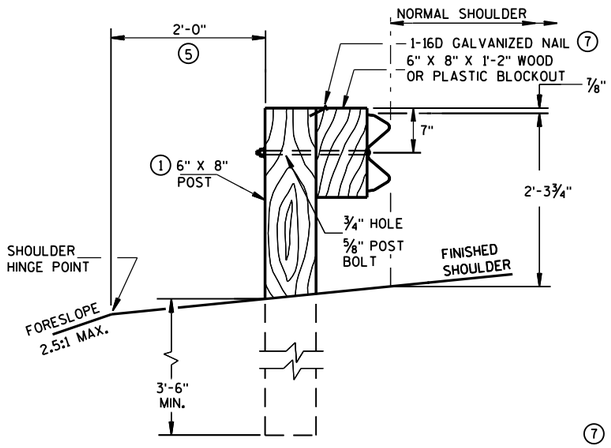
(5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).

(6) 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 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.

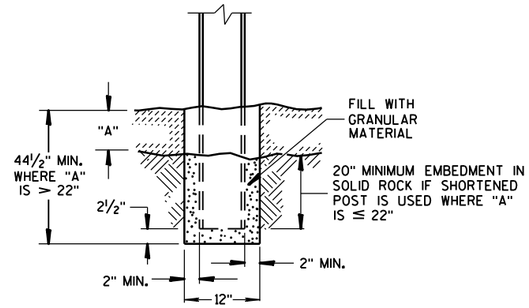
(7) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

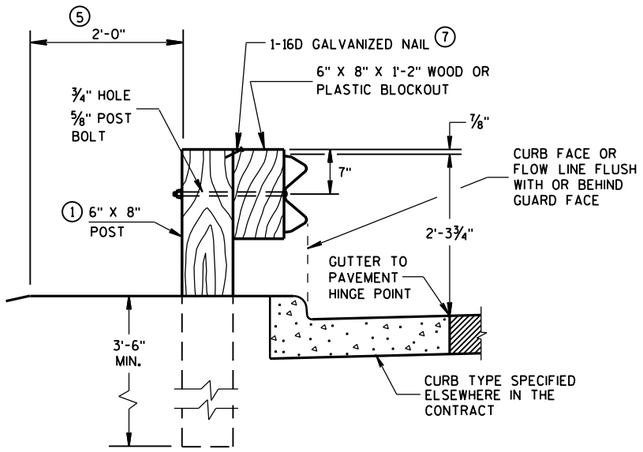
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



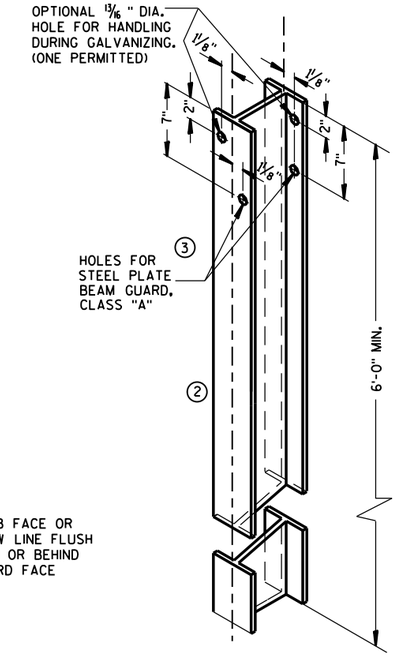
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)

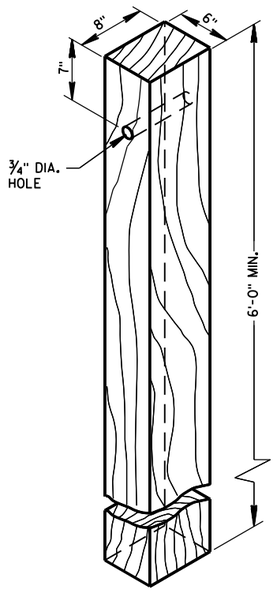


END VIEW
LOCATED ALONG A CURBED ROADWAY

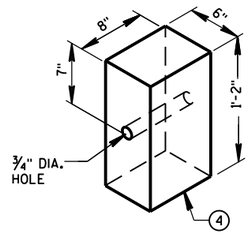


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

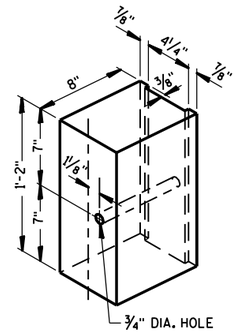
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



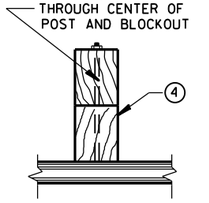
WOOD POST
(6"X8") NOMINAL



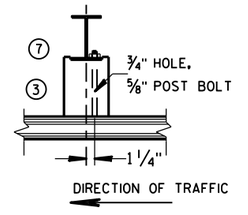
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



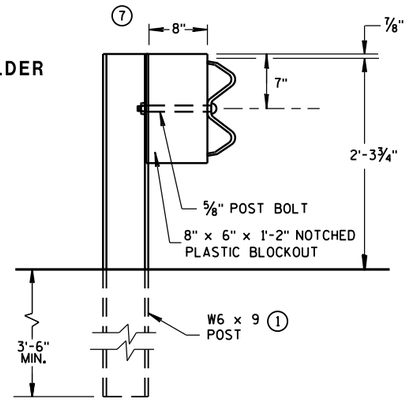
TYPICAL NOTCHED (1)
PLASTIC BLOCKOUT
FOR STEEL POSTS



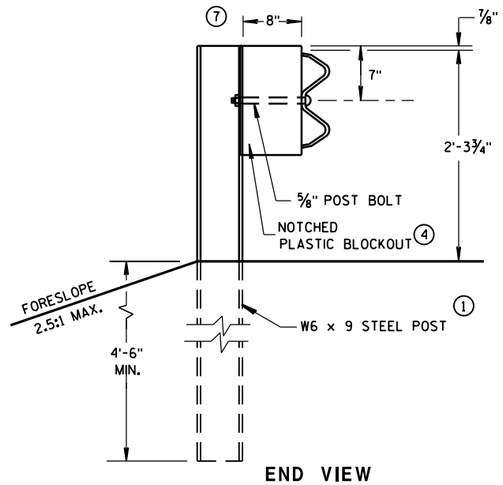
PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



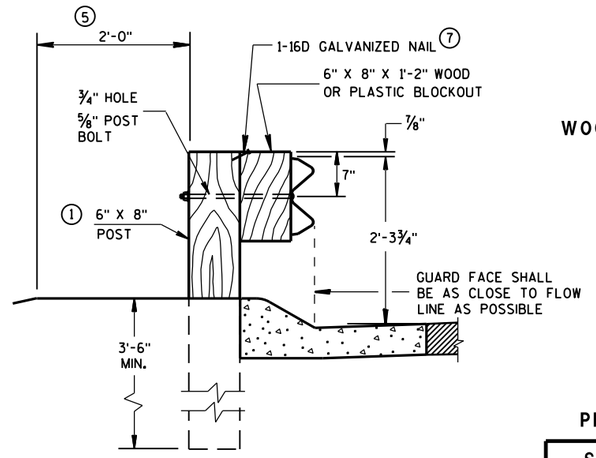
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM



END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



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



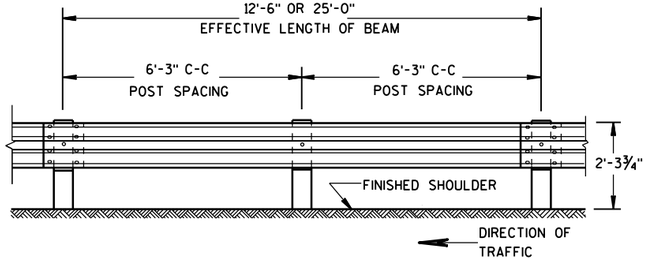
END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

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

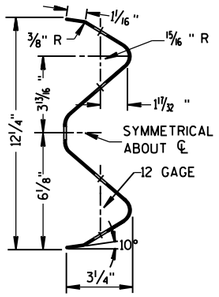
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 15-8a

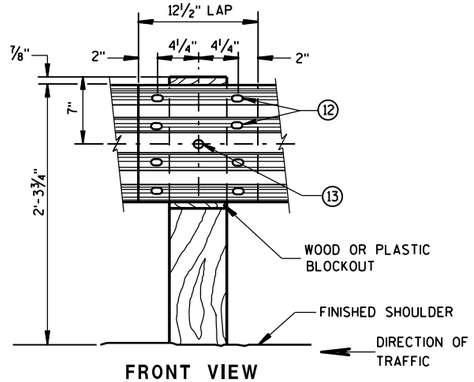


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM



FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

GENERAL NOTES

(8) PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

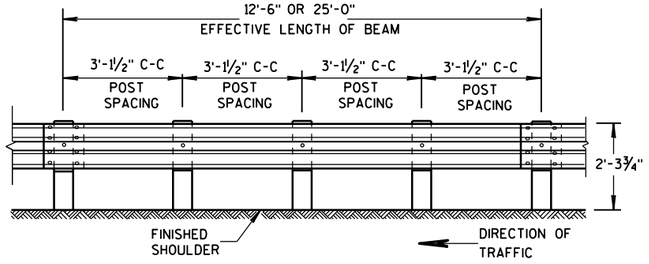
(9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

(10) REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

(11) PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

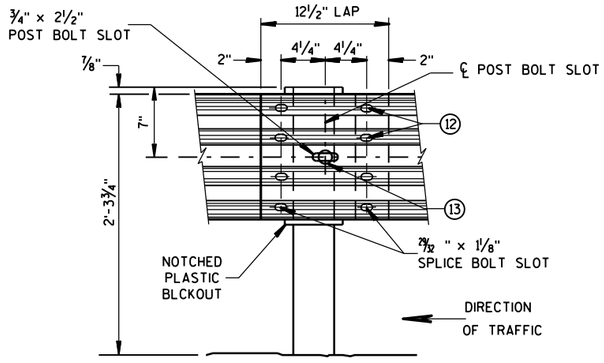
(12) 8 -⅝" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) ⅝" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH ⅝" DIA. F844 FLAT WASHER UNDER NUT.



FRONT VIEW

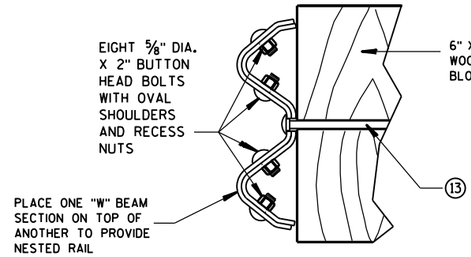
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

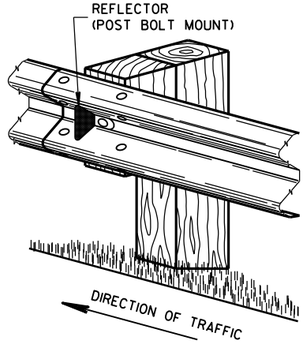


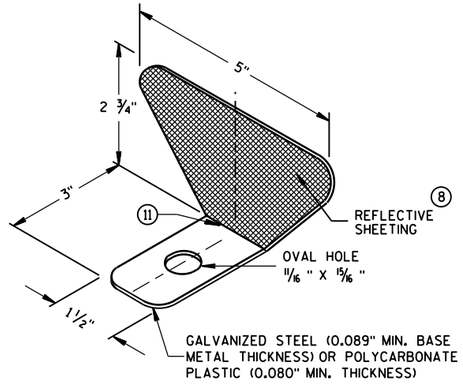
NESTED W BEAM (NW)

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

REFLECTOR SPACING (9)

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 (10)	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2 (11)	3
	> 200'	100' C-C	2	



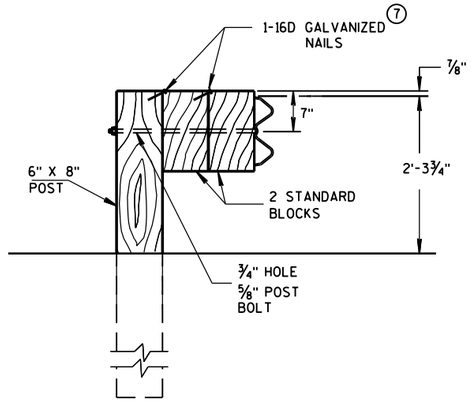


ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (8)

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

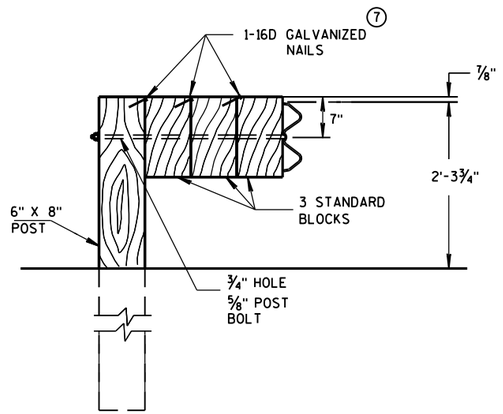
STATE OF WISCONSIN
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DETAIL FOR DOUBLE BLOCKS

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

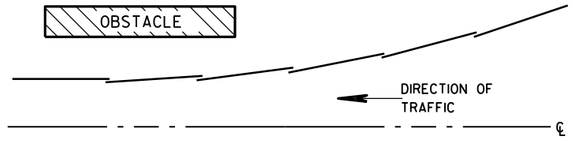


DETAIL FOR TRIPLE BLOCKS

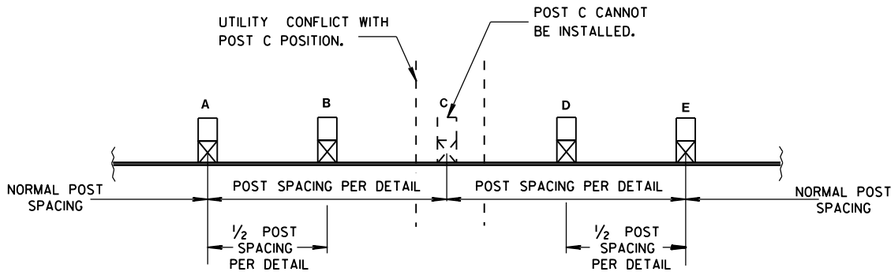
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

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

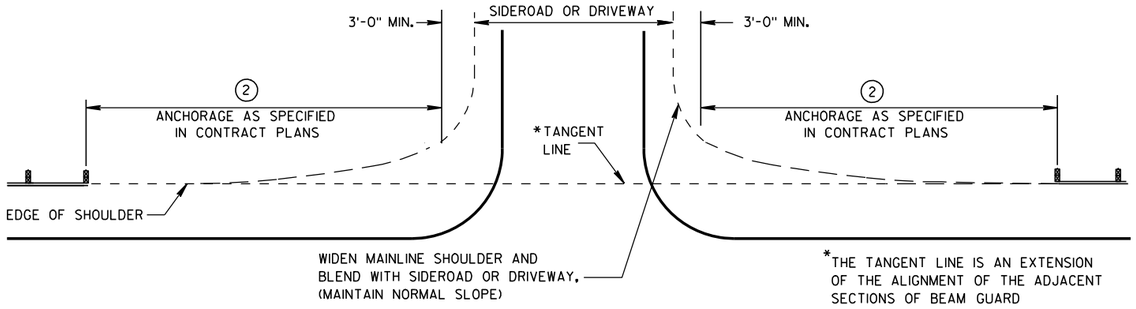
STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

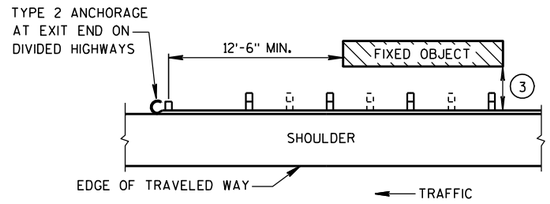
APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

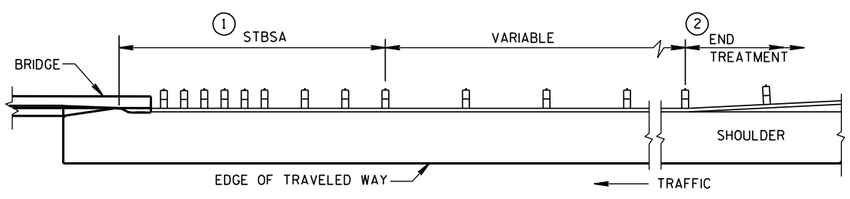
S.D.D. 14 B 15-8c



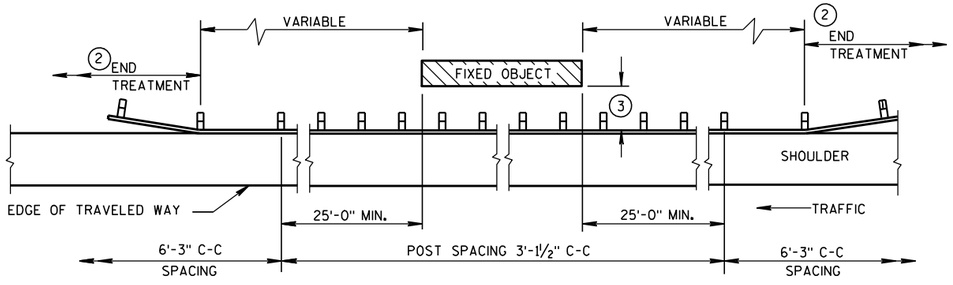
BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

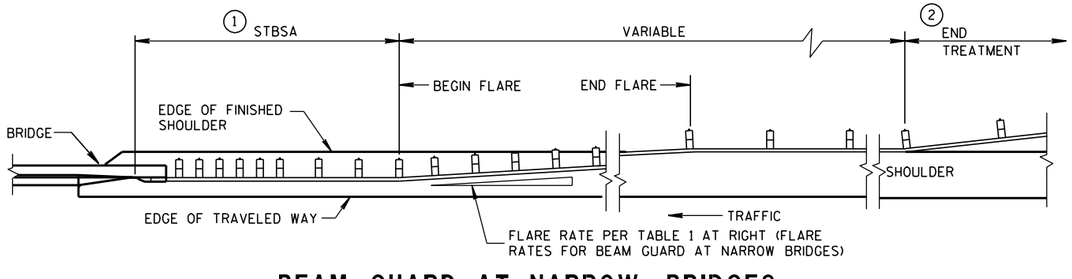


BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")



BEAM GUARD AT NARROW BRIDGES

(FLARED TO SHOULDER EDGE, THEN PARALLEL TO ROADWAY)

TABLE 1
FLARE RATES FOR BEAM GUARD AT NARROW BRIDGES

POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH 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.

THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

(1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) - SEE CURRENT SDD 14B20.

(2) USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

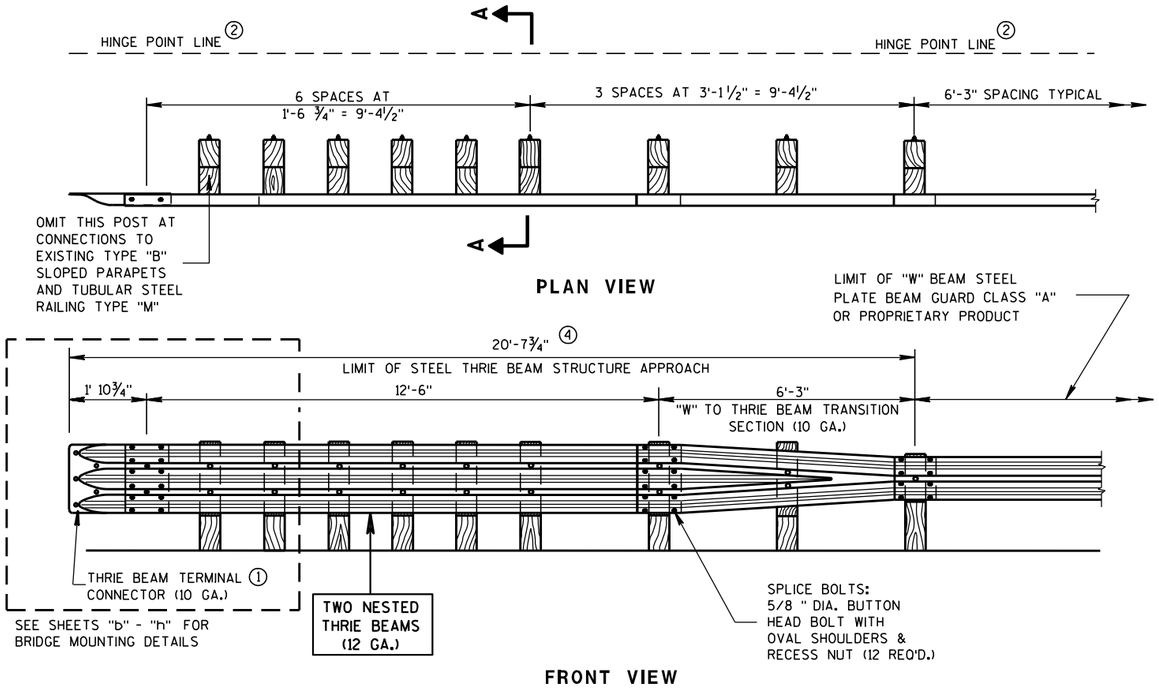
(3)

MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
3'-6"	3' - 1½"
4'-6"	6' - 3"

STEEL PLATE BEAM GUARD CLASS "A" AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-21-07 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA



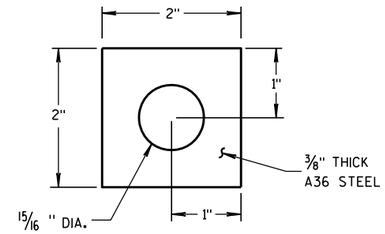


PLATE WASHER DETAIL

GENERAL NOTES

BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3".

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.

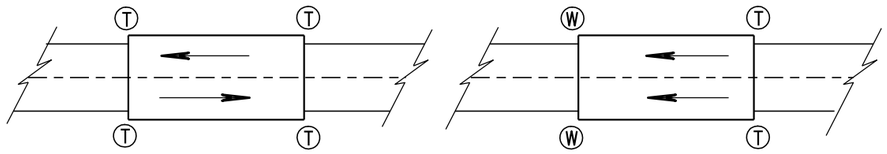
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2 1/2" , AND 12" DIAMETER AROUND POST. SEE 14B15 FOR MORE DETAILS.

① BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

② MINIMUM EMBEDMENT SHALL BE 4'-0". WHERE EXISTING CONDITIONS DO NOT PERMIT THE APPROPRIATE EARTHWORK SHOWN ON THE PLAN TYPICAL SECTIONS OR DETAILS, THE ENGINEER MAY ALLOW THE REDUCTION OR ELIMINATION OF THE 2 FOOT DISTANCE TO THE HINGE POINT. OTHERWISE BUILD AS THE PLAN SHOWS OR AS THE ENGINEER DIRECTS. IF THE 2 FOOT DISTANCE TO THE HINGE POINT IS REDUCED OR ELIMINATED, INCREASE THE POST EMBEDMENT DEPTH TO 4'-6" OR MORE.

③ POST BOLTS ARE 5/8" DIAMETER ASTM A307 BUTTON HEAD BOLT. A POST BOLT REQUIRES A 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX AND A 5/8" DIAMETER F844 FLAT WASHER. LENGTH OF POST BOLT MAY VARY.

④ ALL WOOD POSTS MUST BE 6" X 8" AND AT LEAST 7'-0" LONG.



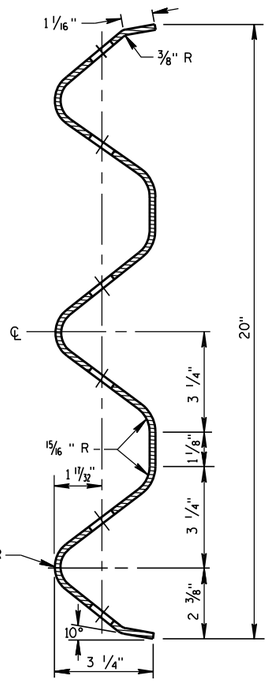
TWO WAY TRAFFIC

ONE WAY TRAFFIC

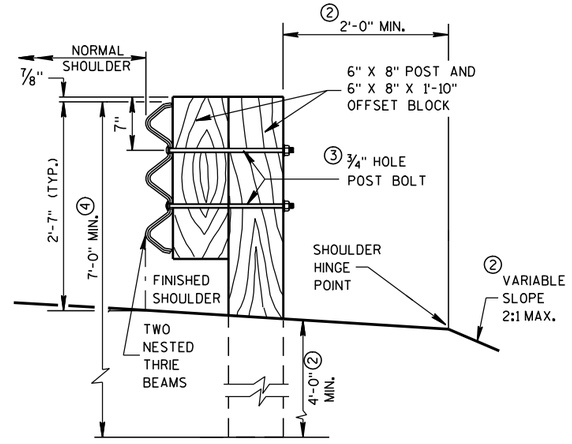
(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

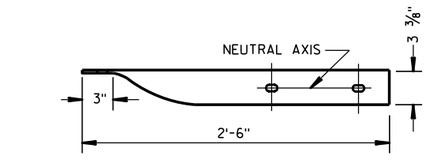
TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

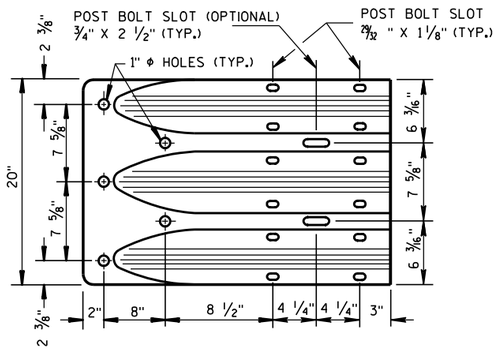


SECTION THRU THRIE BEAM RAIL ELEMENT

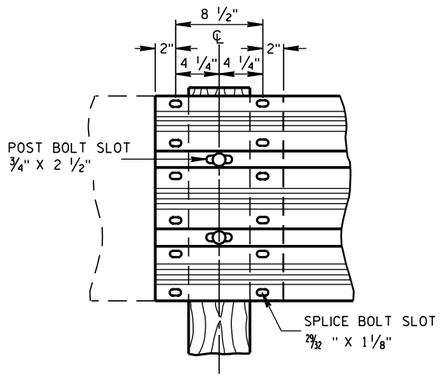


SECTION A-A





THRIE BEAM TERMINAL CONNECTOR



THRIE BEAM SPLICE

STEEL THRIE BEAM STRUCTURE APPROACH

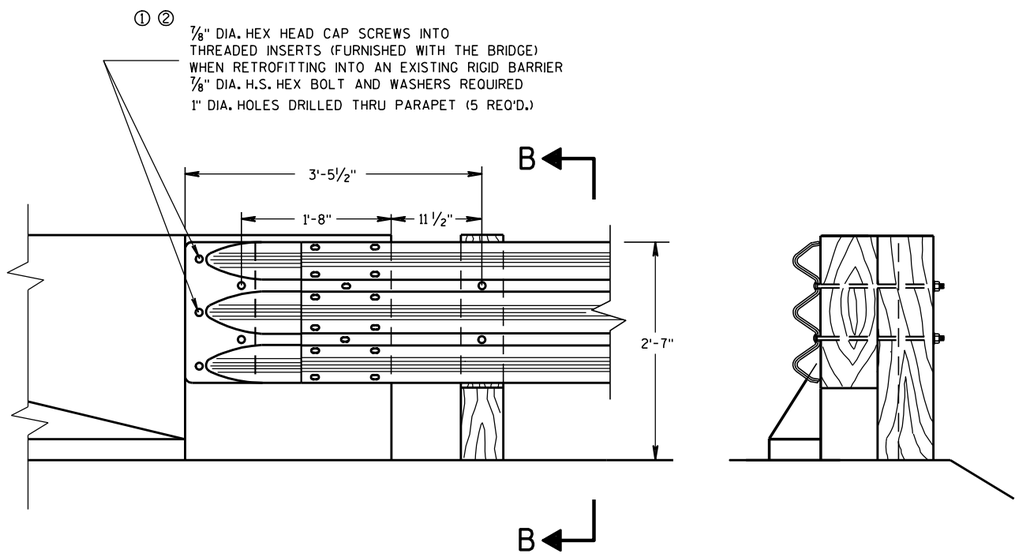
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA



FRONT VIEW

SECTION B-B

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325, A449 AND GALVANIZED PER STANDARD SPECIFICATIONS 614.

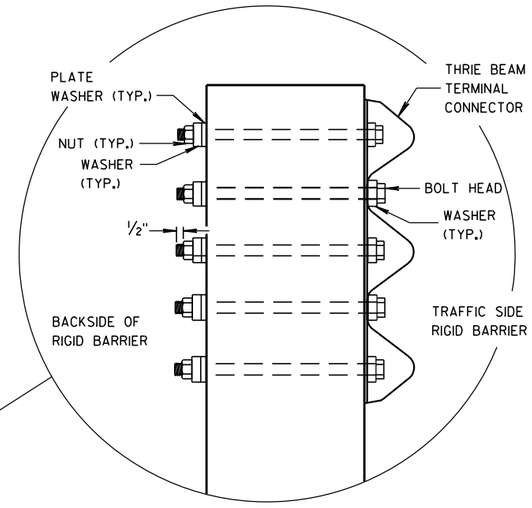
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

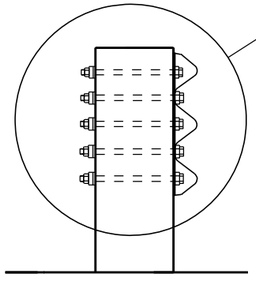
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③ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

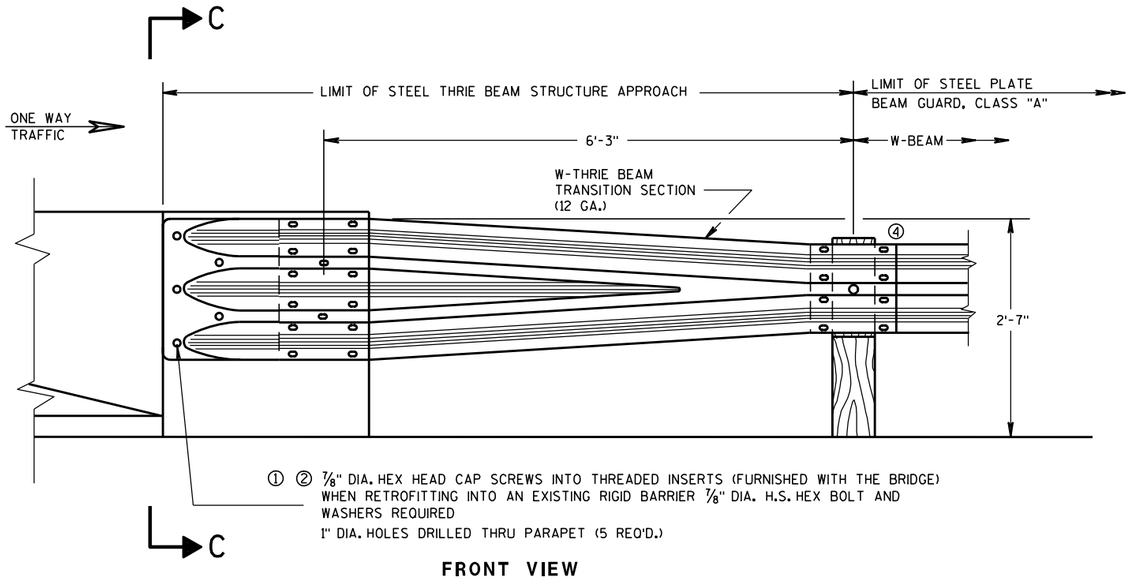
④ W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POST WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.





SECTION C-C



① ② ⅞" DIA. HEX HEAD CAP SCREWS INTO THREADED INSERTS (FURNISHED WITH THE BRIDGE) WHEN RETROFITTING INTO AN EXISTING RIGID BARRIER ⅞" DIA. H.S. HEX BOLT AND WASHERS REQUIRED
1" DIA. HOLES DRILLED THRU PARAPET (5 REQ'D.)

FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END PARAPETS

STATE OF WISCONSIN
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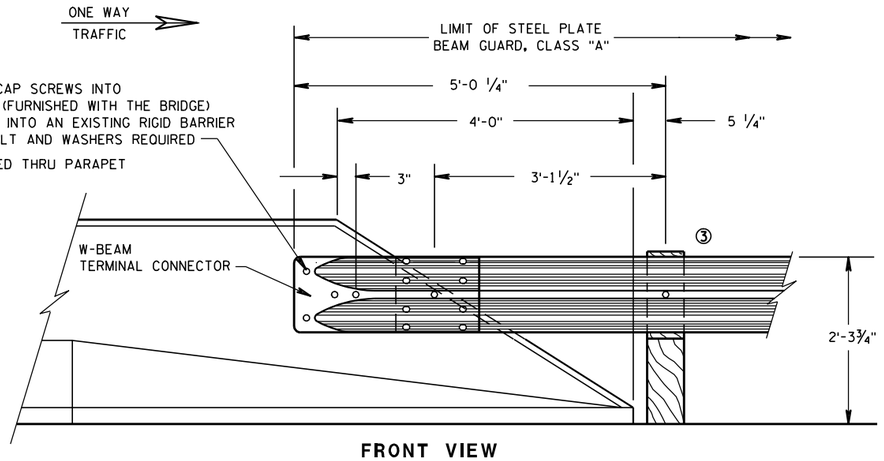
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8/31/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

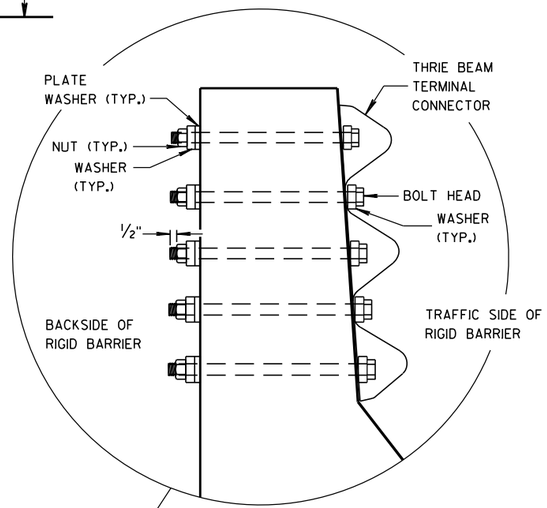
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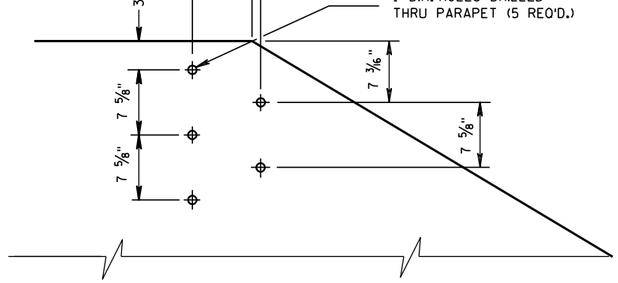
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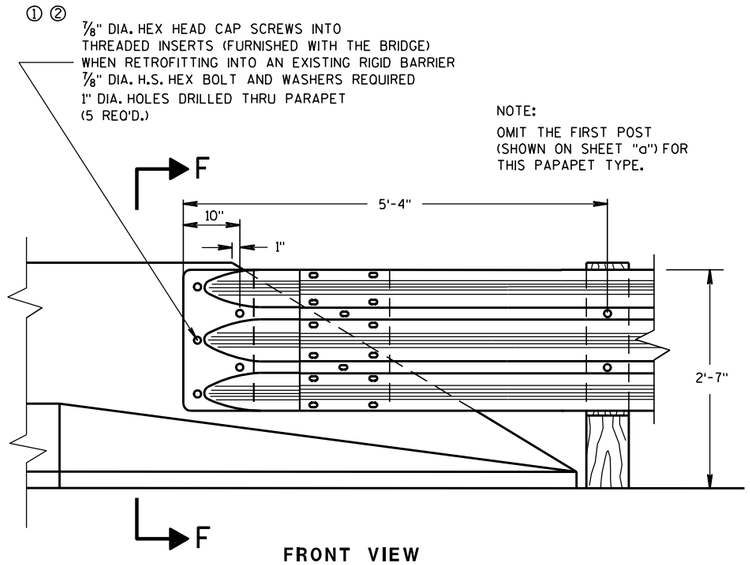
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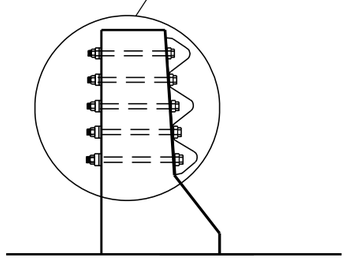




DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION F-F

THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SLOPED END PARAPETS

STATE OF WISCONSIN
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8/31/2012 — DATE
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FHWA

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GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

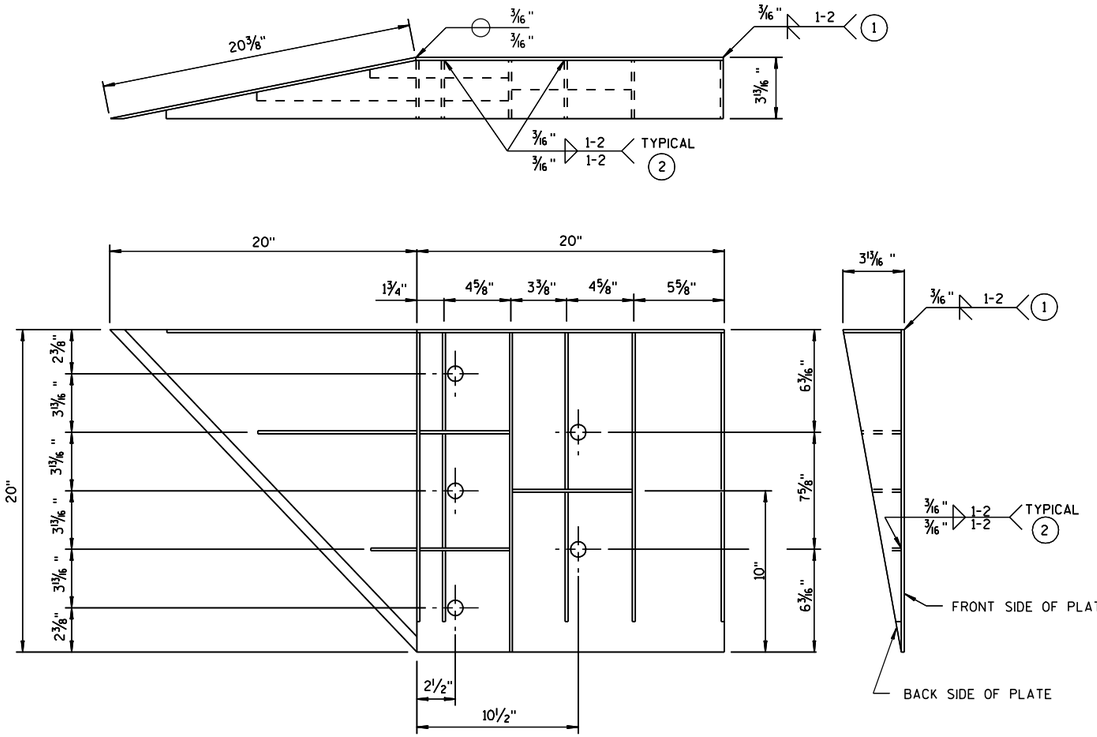
FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(1) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(2) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

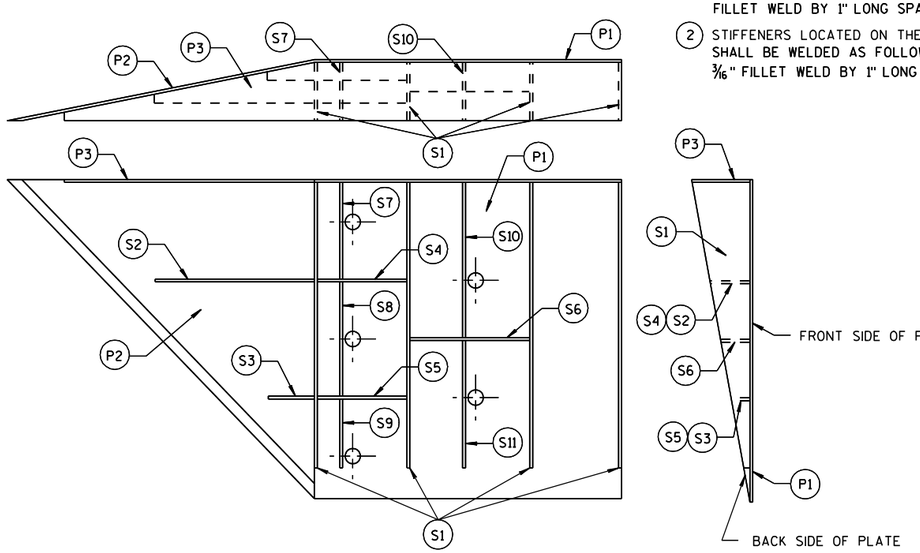


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

STEEL THRIE BEAM STRUCTURE APPROACH

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTOR PLATE DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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8/31/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

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BILL OF MATERIALS

NOTE NO.	QTY.	DESCRIPTION
①	4	WOOD BREAKAWAY TERMINAL POST: 5½" X 7½" X 3'-9"
②	**	STEEL TUBE: OPTION 1 - QUANITY OF 4 TS 8" X 6" X 0.188", 4'-6" LONG OR OPTION 2 - QUANITY OF 2 TS 8" X 6" X 0.188", 6'-0" AND 2 TS 8" X 6" X 0.188", 4'-6" LONG
③	2	SOIL PLATE: 2'-0" X 1'-6" X ¼" **
④	4	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
⑤	6	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
⑥	1	PIPE SLEEVE: 2" X 5 ½" STANDARD PIPE
⑦	1	BEARING PLATE
⑧	1	BCT CABLE ASSEMBLY
⑨	1	CABLE ANCHOR BOX
⑩	1	STRUT & YOKE
⑪	1	STEEL PLATE BEAM, END PANEL 12 GA. 13'-6½" LONG FOR SKT-350, ET-2000 AND ET-2000 PLUS
⑫	3	STEEL PLATE BEAM: 12 GA. 13'-6½"
⑬	1	ET-2000/ET-2000 PLUS GUARDRAIL EXTRUDER OR SKT-350 IMPACT HEAD: AS FURNISHED BY MANUFACTURER
⑭	1	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
⑮	1	E.A.T. MARKER POST

GENERAL NOTES

FOLLOW MANUFACTURE'S BOLTING RECOMMENDATIONS. IF NONE ARE AVAILABLE, INSTALL ⅝" ø X 1'-6" BUTTON HEAD BOLTS AT ALL POSTS EXCEPT FOR POST 1.

(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) THE 13 SLOT FIRST RAIL PANEL MAY BE USED IN LIEU OF THE 3 SLOT RAIL PANEL ON SKT-350 ONLY.

(D) THE TOP OF THE STEEL TUBE ON POSTS 1 THROUGH 4 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(E) THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST 5 THROUGH 8 SHALL BE ¾" ABOVE THE FINISHED GROUND LINE.

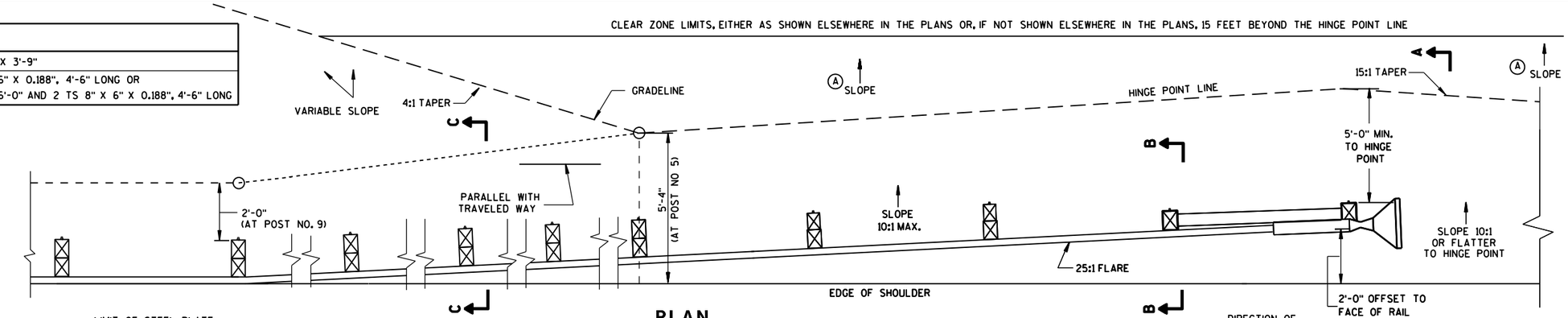
(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

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

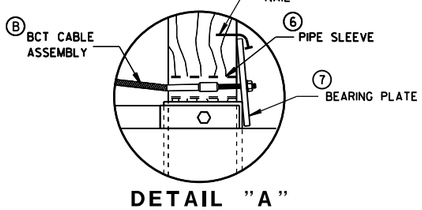
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

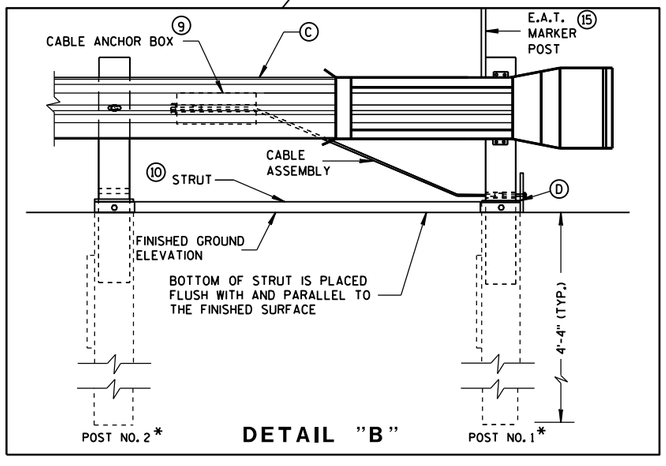
** SDD SHOWS 4 - 54 INCH STEEL TUBES WITH SOIL PLATES INSTALLED ON POST 1 AND POST 2. POST 3 AND 4 DO NOT NEED SOIL PLATES. AN ALTERNATIVE INSTALLATION WOULD CONSIST OF 2 - 72 INCH STEEL TUBES ON POST 1 AND POST 2 AND 54 INCH SOIL TUBES ON POSTS 3 AND 4. THE ALTERNATIVE INSTALLATION DOES NOT REQUIRE SOIL PLATES.



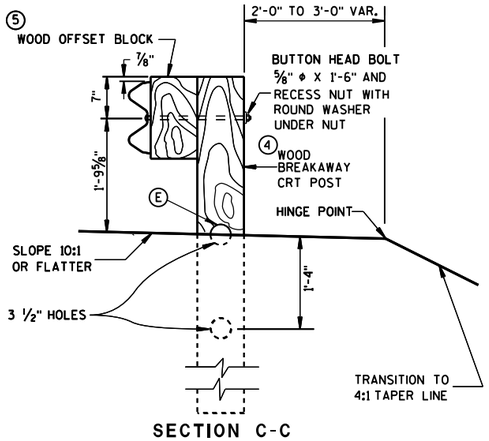
ELEVATION



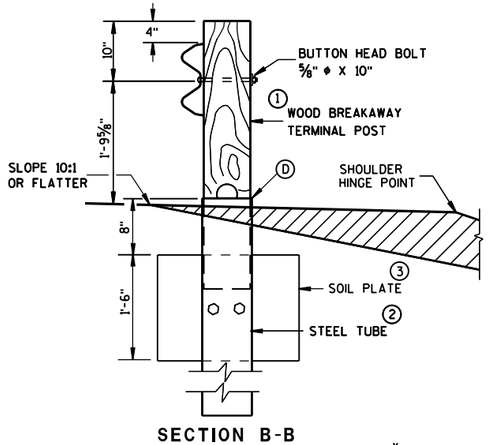
DETAIL "A"



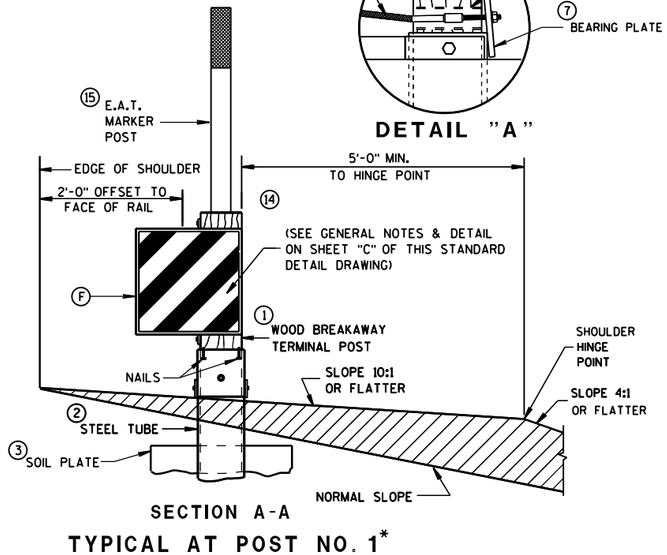
DETAIL "B"



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



SECTION B-B
TYPICAL AT POST NO. 2*

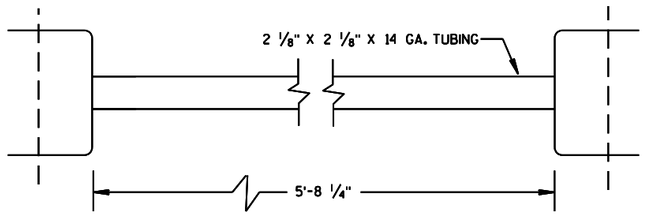


SECTION A-A
TYPICAL AT POST NO. 1*

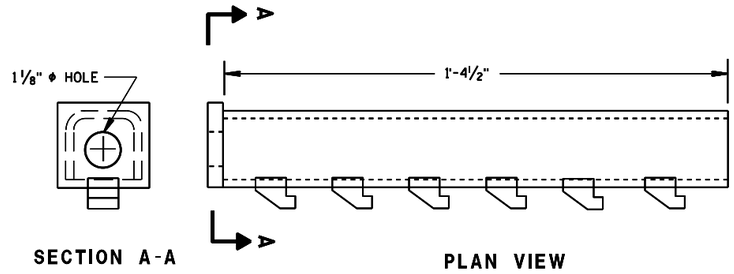
STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

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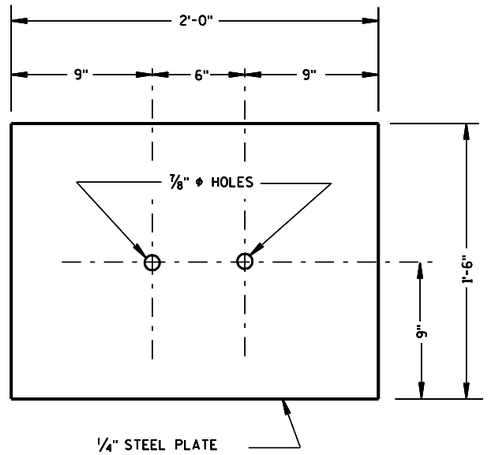
6
S.D.D. 14 B 24-8a



⑩ STRUT DETAIL (SKT-350)

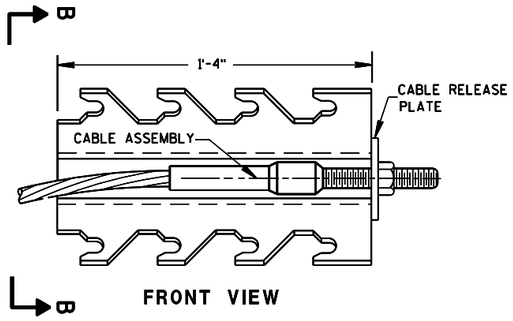


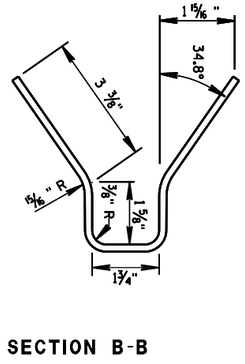
⑨ CABLE ANCHOR BOX (ET-2000/ET-2000 PLUS)



③ SOIL PLATE

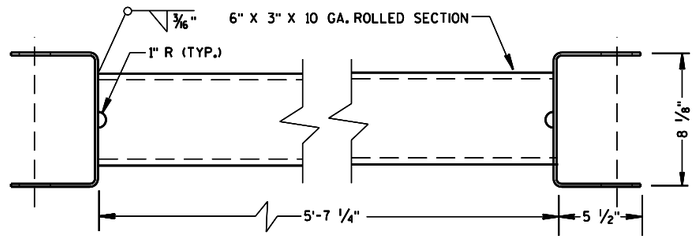
(SKT-350, ET-2000/ET-2000 PLUS)





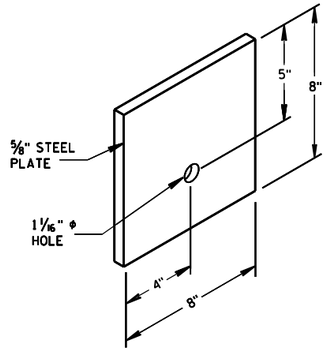
⑨ CABLE ANCHOR BOX (SKT-350)

(SKT-350)



⑩ STRUT DETAIL (ET-2000/ET-2000 PLUS)

(ET-2000/ET-2000 PLUS)



⑦ STEEL BEARING PLATE

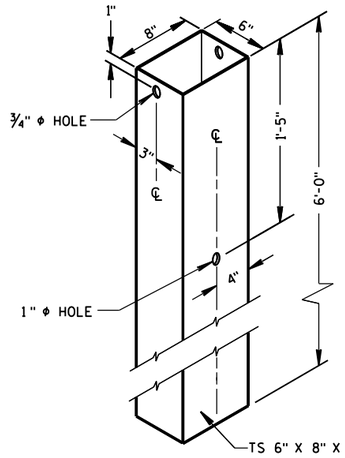
(SKT-350, ET-2000/ET-2000 PLUS)

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

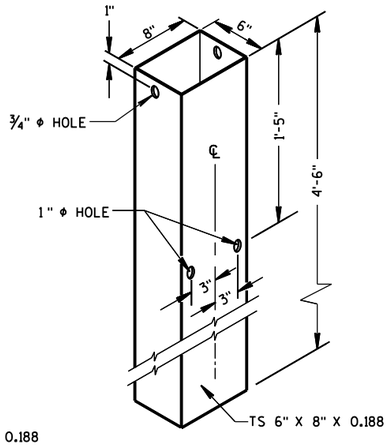
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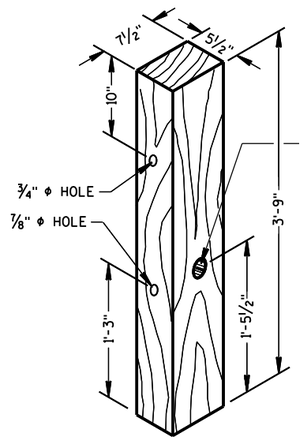
S.D.D. 14 B 24-8b



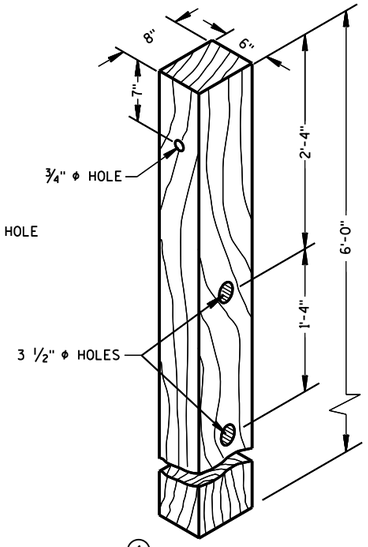
② 72" STEEL TUBE
(POSTS NO. 1-4



② 54" STEEL TUBE
(POSTS NO. 1-4



① TERMINAL POST
(POSTS NO. 1-4



④ CRT POST
(POSTS NO'S 5-8

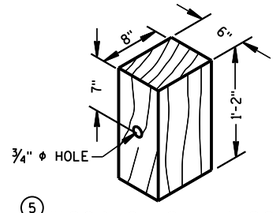
WOOD BREAKAWAY POSTS

GENERAL NOTES

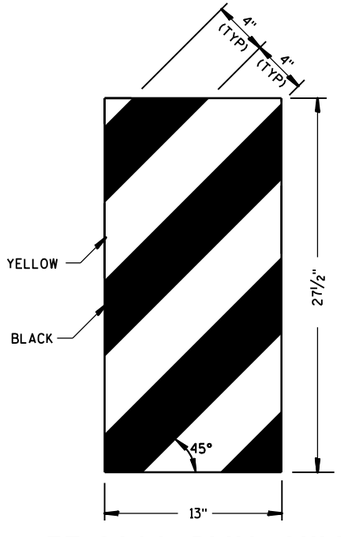
WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 ½" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.

SEE APPROVED PRODUCTS LIST FOR ACCEPTABLE E. A. T. MARKER POST.

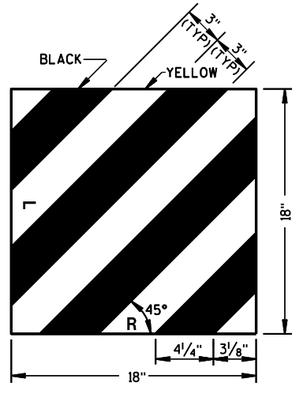
(G) ½" DIA. X 3" LAG BOLT WITH WASHER.



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

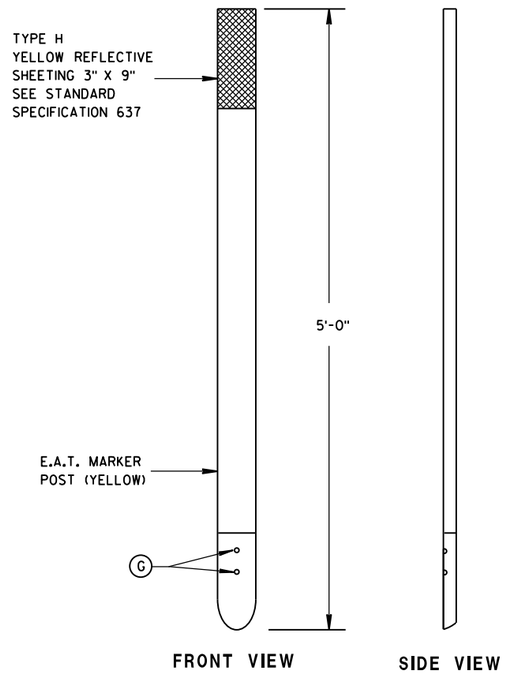


ET-2000 PLUS ONLY

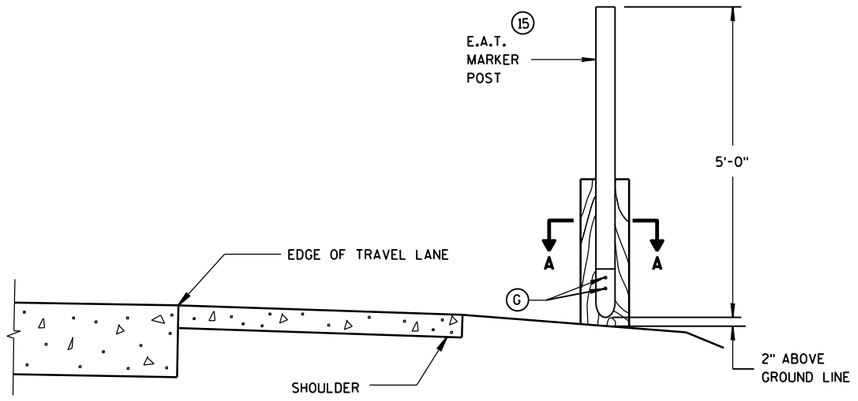


ET-2000 AND SKT-350

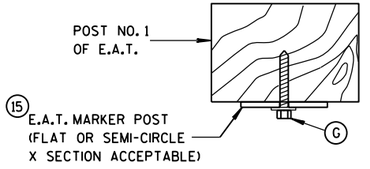
⑭ REFLECTIVE SHEETING DETAILS



⑮ E.A.T. MARKER POST



TYPICAL INSTALLATION OF E.A.T.
MARKER POST BACKSIDE OF POST NO. 1
(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

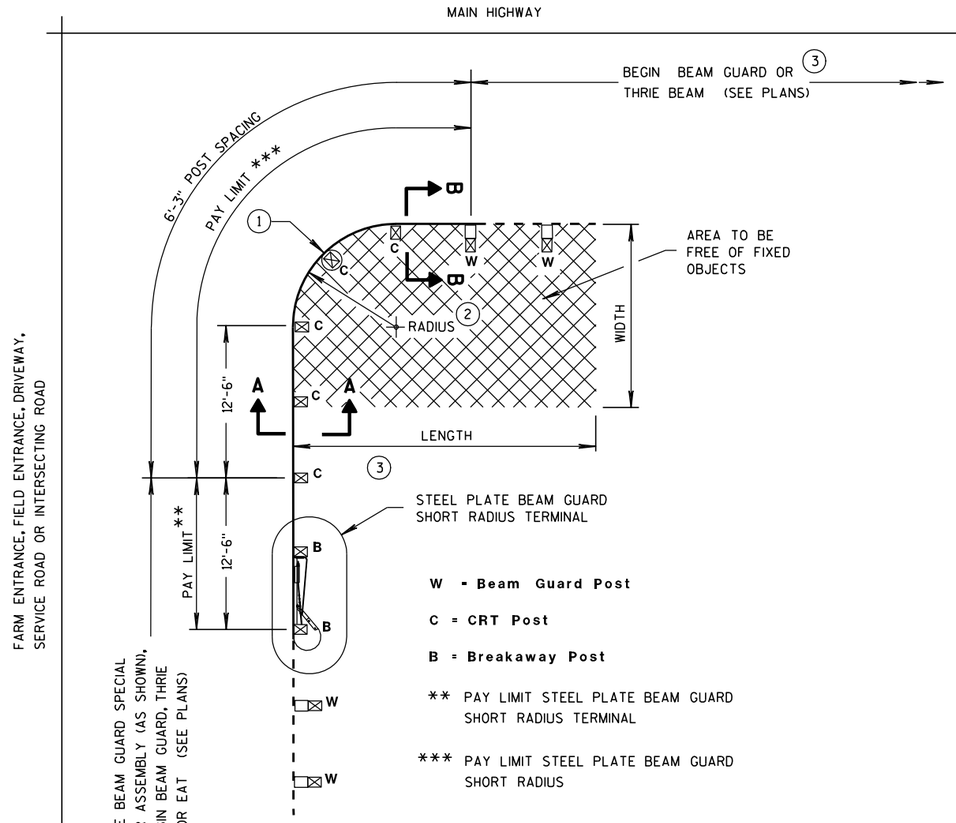
APPROVED
June 2014
DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS ENGINEER
FHWA

6

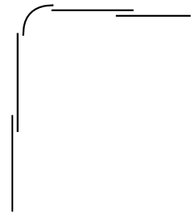
S.D.D. 14 B 24-8c

6

S.D.D. 14 B 24-8c



TYPICAL LAYOUT
(8' RADIUS SHOWN)



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.

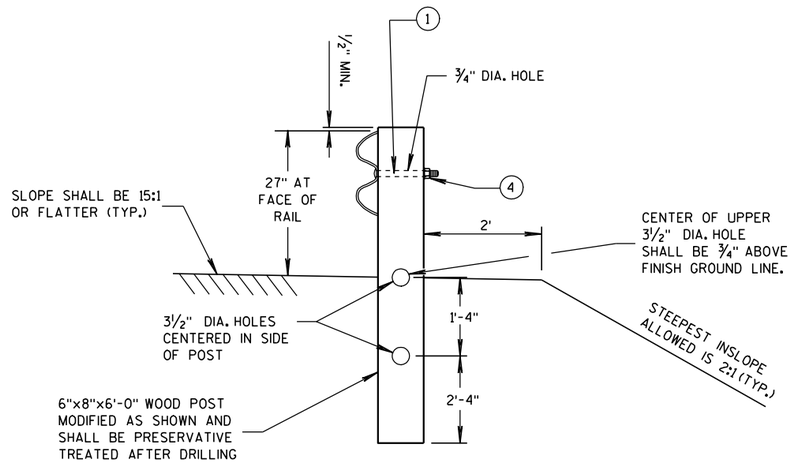
(2) RADIUS FROM 8' - 36'. SEE PLAN.

(3) HEIGHT TRANSITION MAY BE REQUIRED. SEE PLAN OR PROJECT ENGINEER.

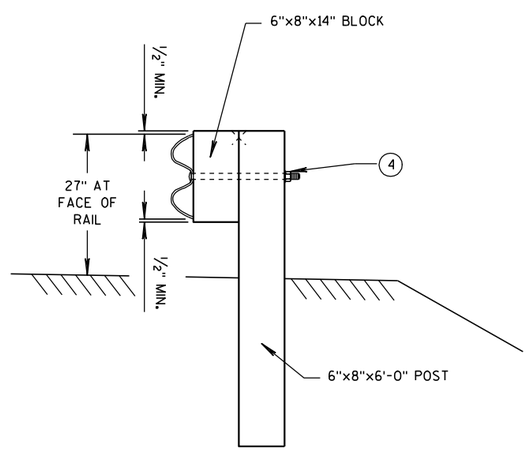
(4) 5/8" ø X 1'-6" BUTTON HEAD BOLT AND RECESS NUT WITH ROUND WASHER UNDER NUT.

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 A-A
(CRT POST)



SECTION B-B
(BEAM GUARD POST)

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

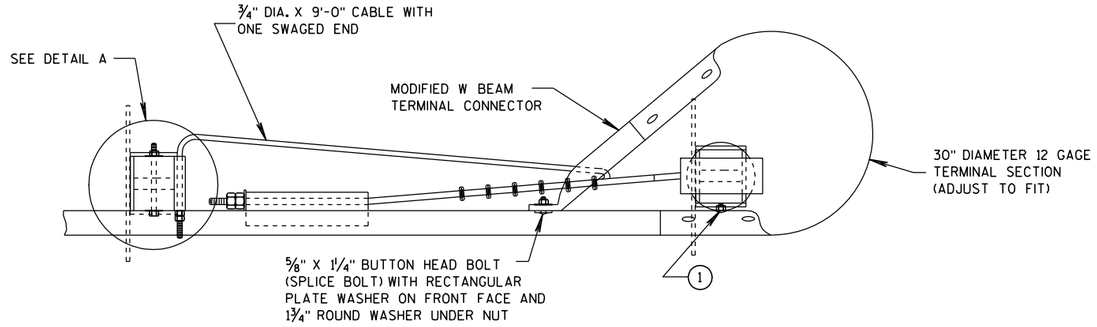
STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	173

6

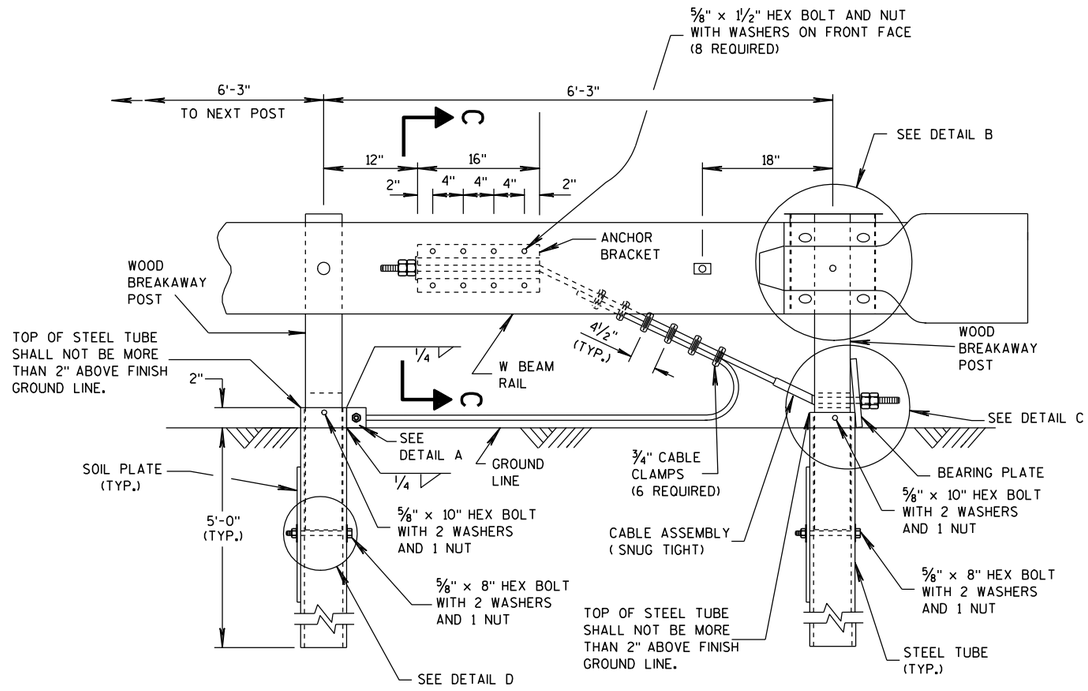
S.D.D. 14 B 27-1a

6

S.D.D. 14 B 27-1a



PLAN VIEW



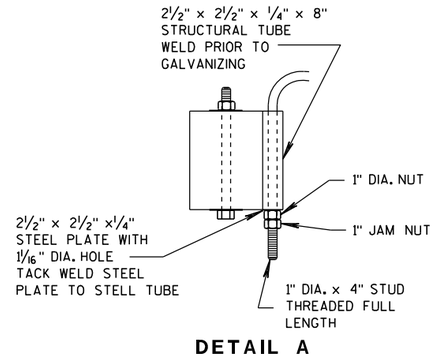
ELEVATION VIEW

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

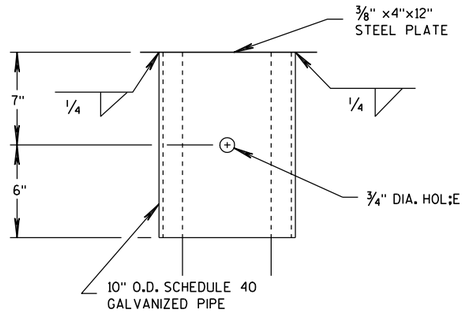
GENERAL NOTES

(1) ATTACH W BEAM RAIL TO THE STEEL PIPE WITH A ⅝" X 2" BUTTON HEAD BOLT WITH NO WASHER. CONNECTION TO THE POST IS NOT REQUIRED.

INSTALL GALVANIZED ¾" (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

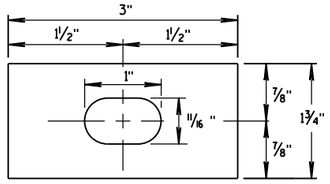
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

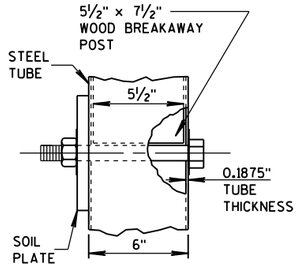
S.D.D. 14 B 27-1b

6

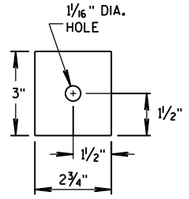
S.D.D. 14 B 27-1b



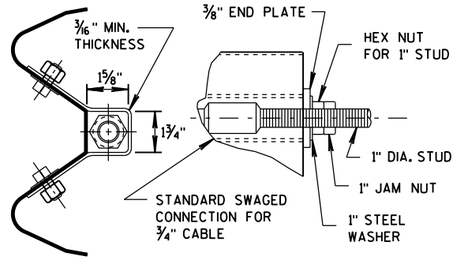
RECTANGULAR PLATE WASHER



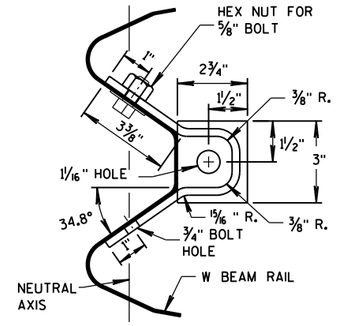
DETAIL D



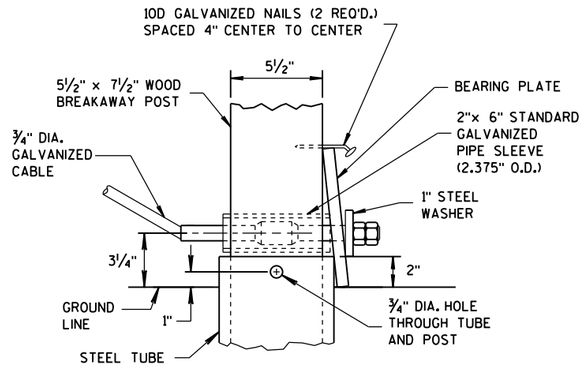
END PLATE



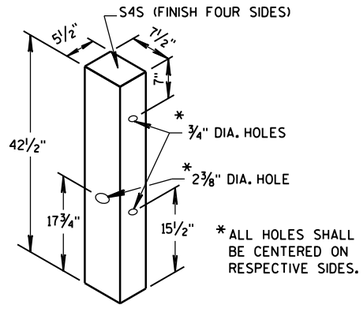
SECTION C-C
(END PLATE REMOVED)



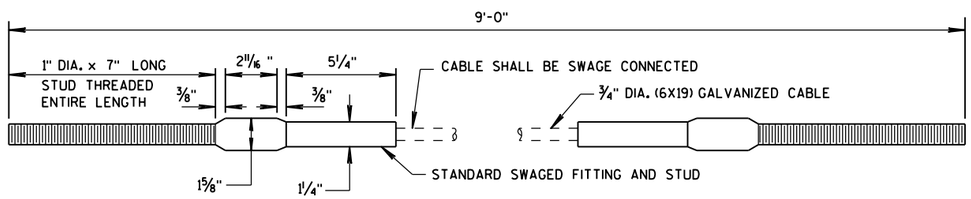
ANCHOR BRACKET



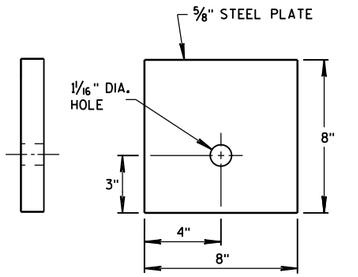
DETAIL C



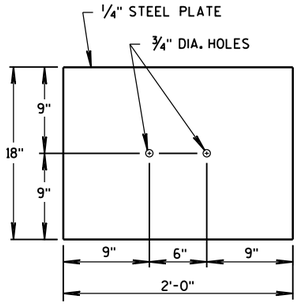
WOOD BREAKAWAY POST



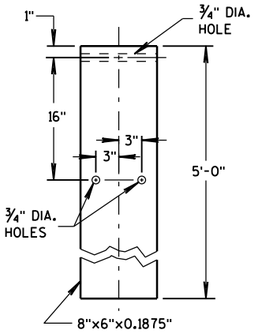
CABLE ASSEMBLY



BEARING PLATE



SOIL PLATE



STEEL TUBE

STEEL PLATE BEAM GUARD SHORT RADIUS TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

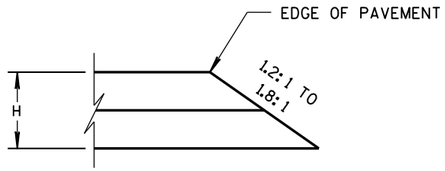
APPROVED
12/18/08 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 14 B 27-1c

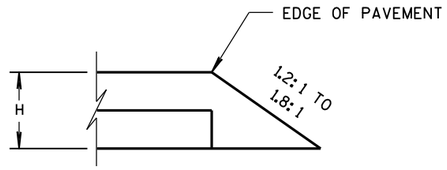
6

S.D.D. 14 B 27-1c



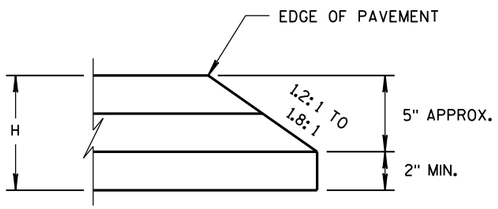
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



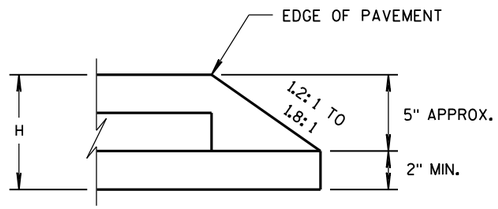
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

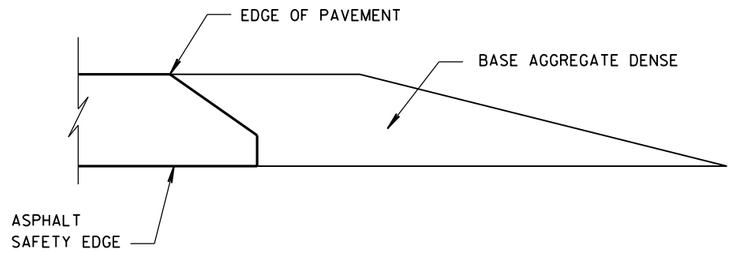
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

GENERAL NOTES

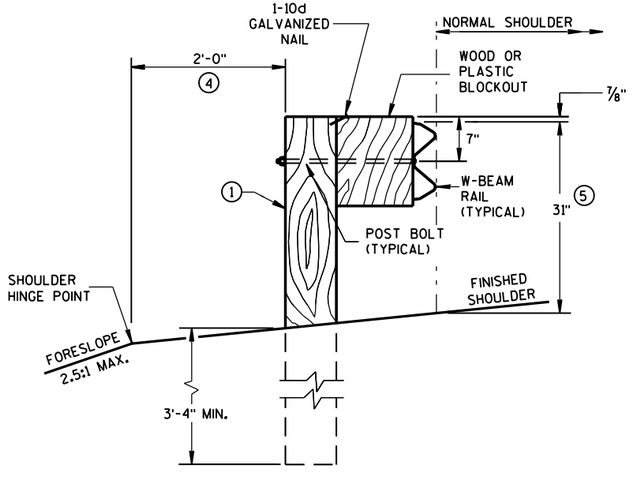
1. WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

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 2½INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

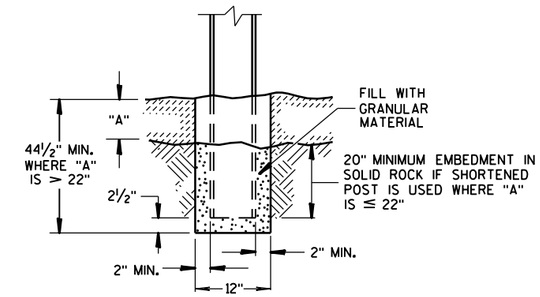
4. WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

5. FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".



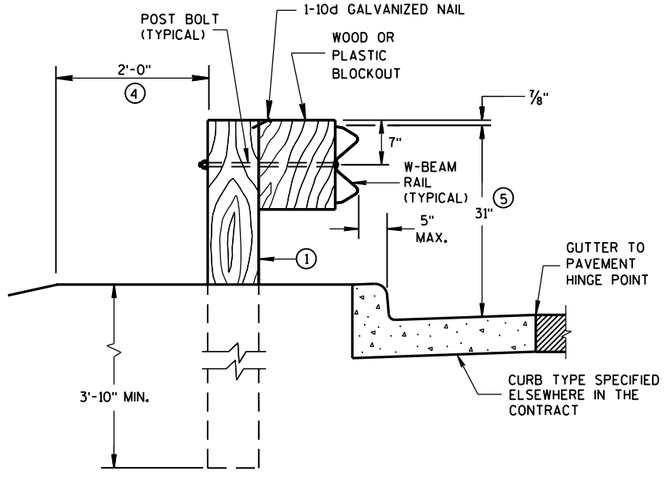
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



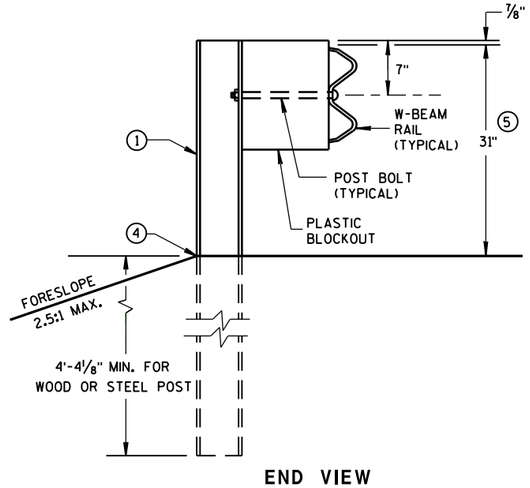
END VIEW

SETTING STEEL OR WOOD POST IN ROCK ③



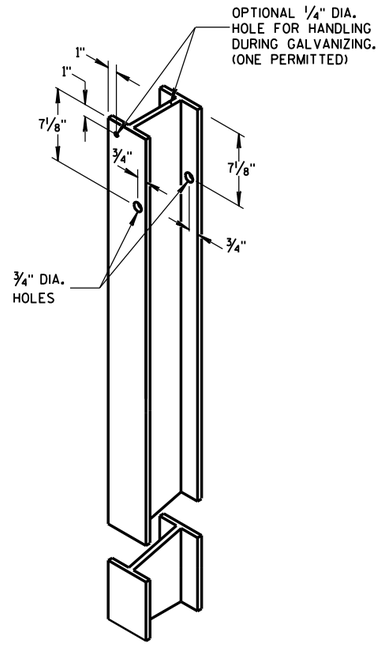
END VIEW

LOCATED ALONG A CURBED ROADWAY

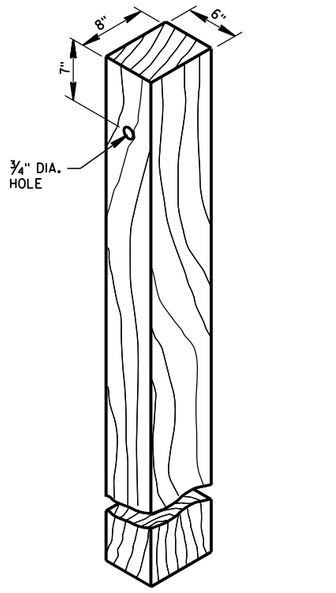


END VIEW

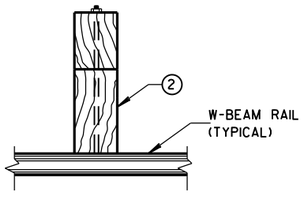
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



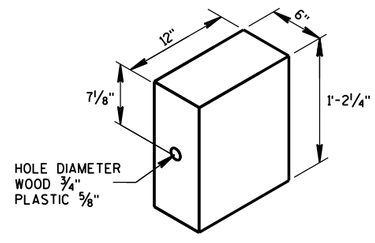
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



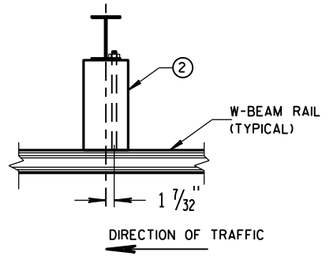
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②

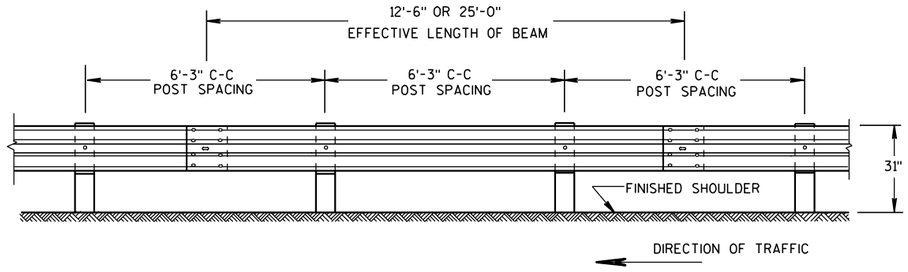


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

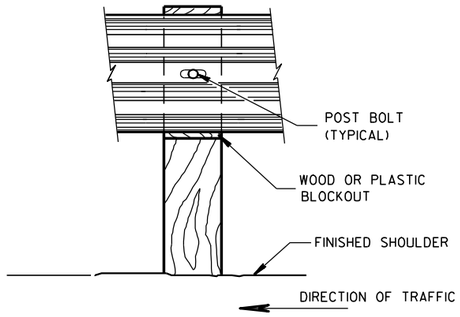
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 42-2a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



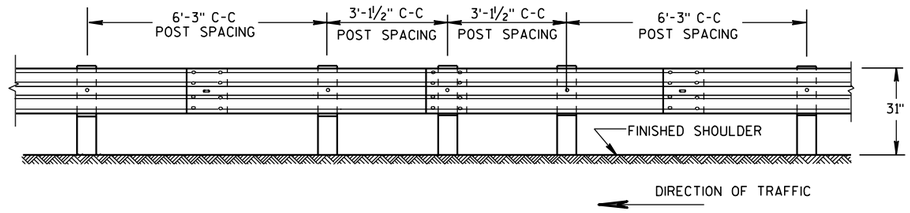
FRONT VIEW AT WOOD POST

GENERAL NOTES

1. PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.
2. 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.
3. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
4. PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.
5. 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

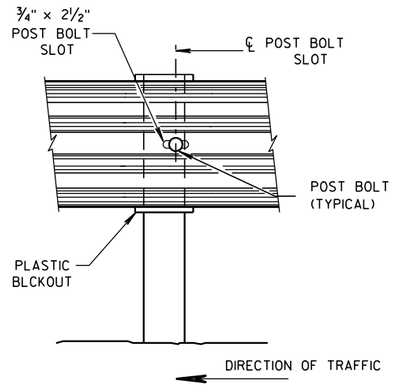
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

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.

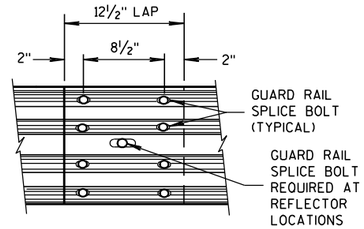


FRONT VIEW

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

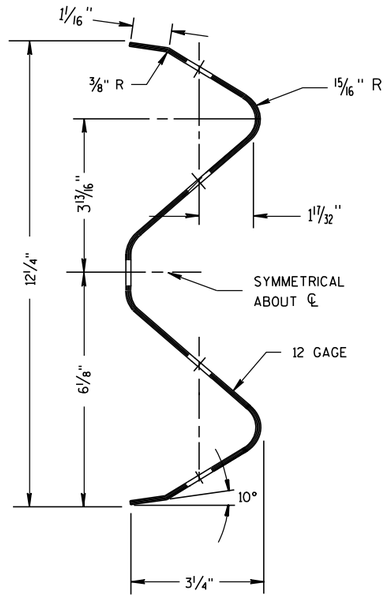


FRONT VIEW AT STEEL POST

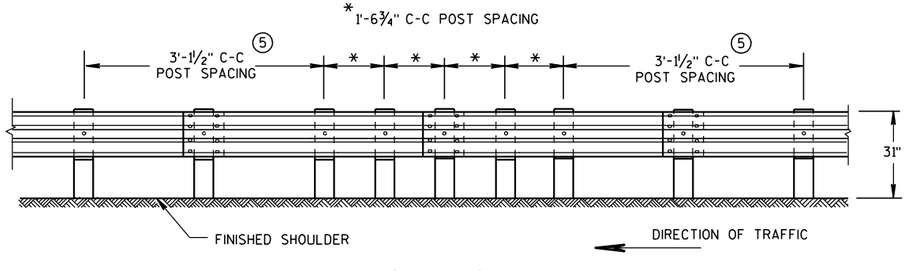


FRONT VIEW

MID-SPAN BEAM SPLICE

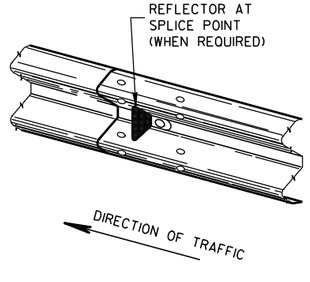


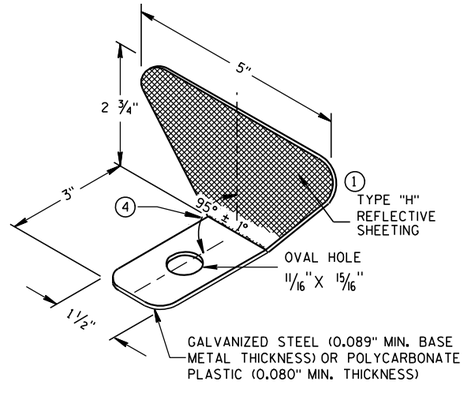
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION ①

REFLECTOR SPACING ②

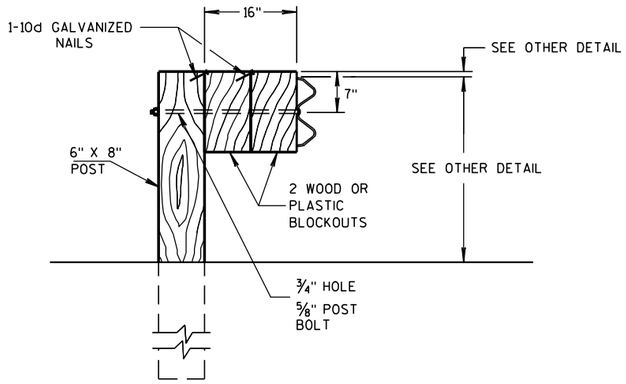
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 ③ 1	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 ④ 2	3

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

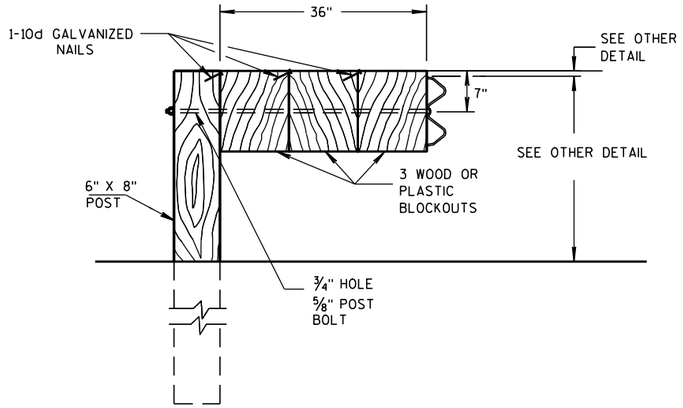
S.D.D. 14 B 42-2b

S.D.D. 14 B 42-2b



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.

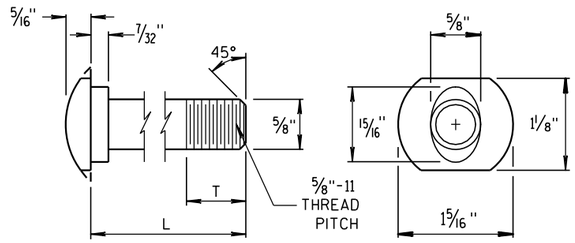


DETAIL FOR 36" BLOCKOUT DEPTH

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.

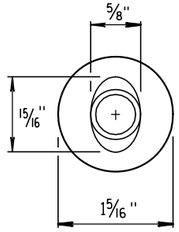
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

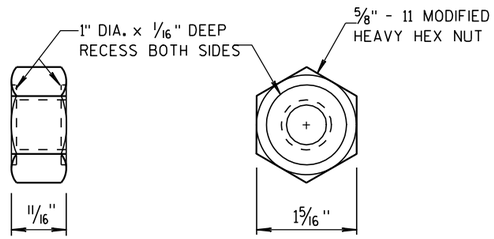


POST BOLT TABLE

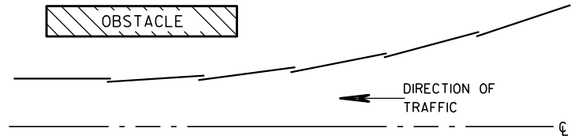
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

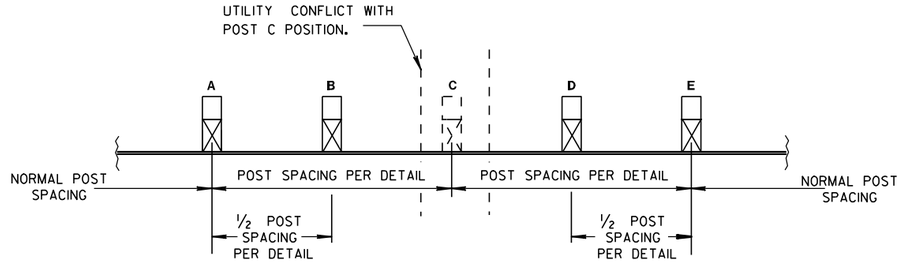


POST BOLT AND RECESS NUT

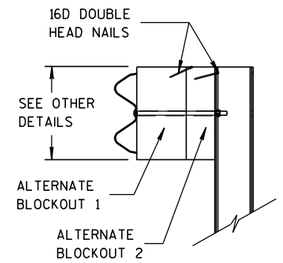


PLAN VIEW

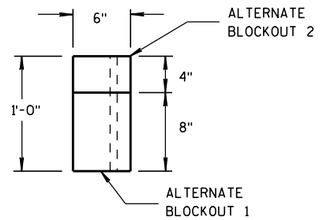
BEAM LAPPING DETAIL



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

APPROVED

11/15/2011
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

FHWA

ENT

6

S.D.D. 14 B 42-2c

6

S.D.D. 14 B 42-2c

GENERAL NOTES

(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.

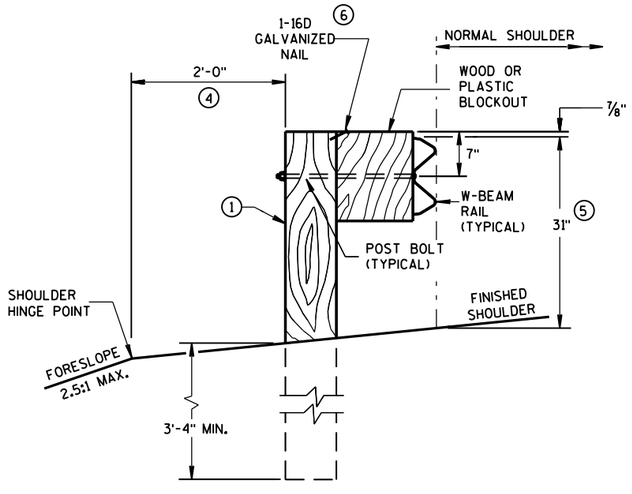
(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD 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).

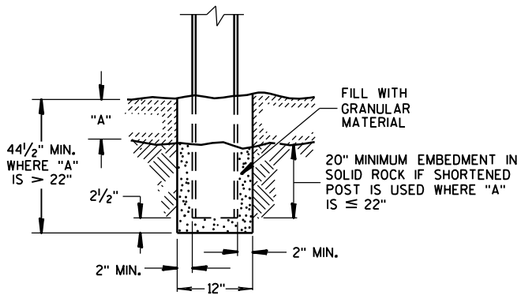
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

(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.



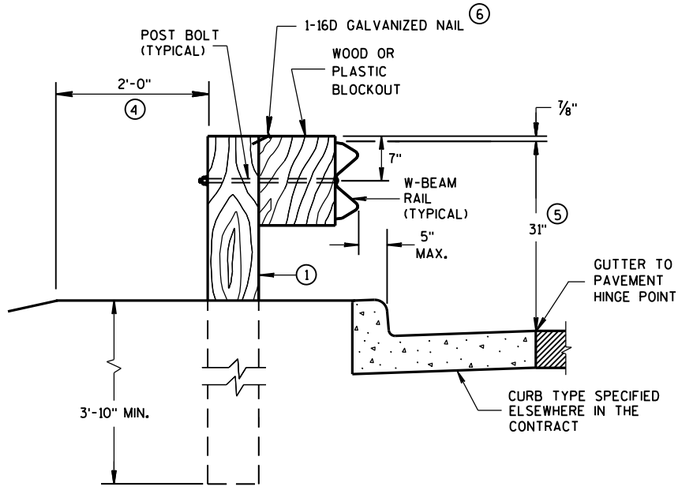
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



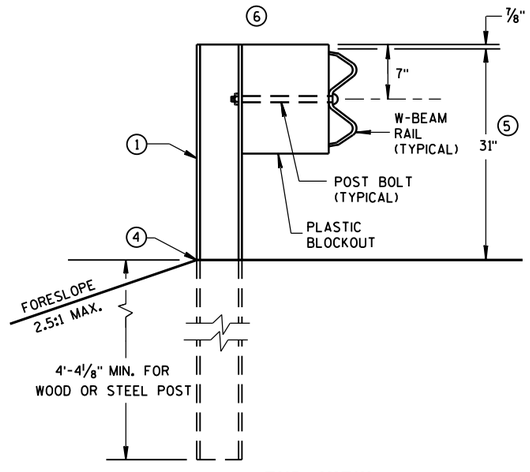
END VIEW

SETTING STEEL OR WOOD POST IN ROCK (3)



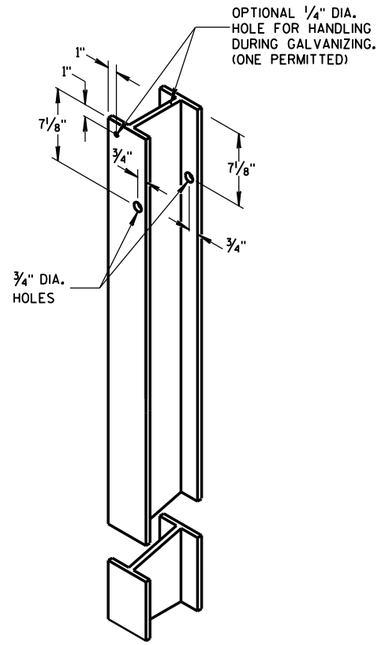
END VIEW

LOCATED ALONG A CURBED ROADWAY

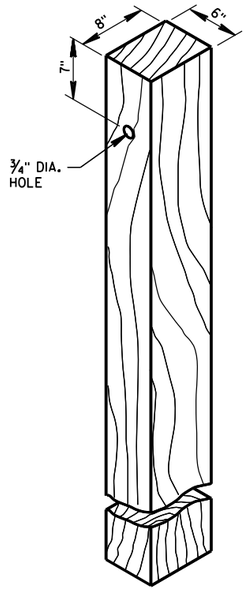


END VIEW

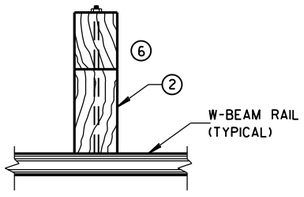
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



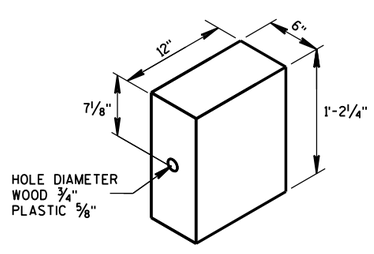
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) (1)



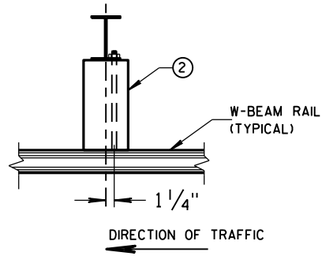
WOOD POST
(6" X 8") NOMINAL (1)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT (2)

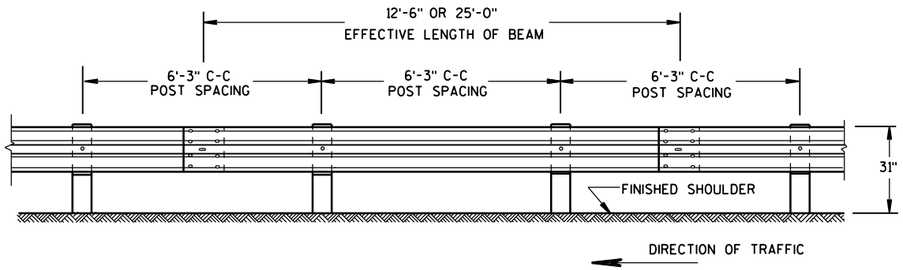


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

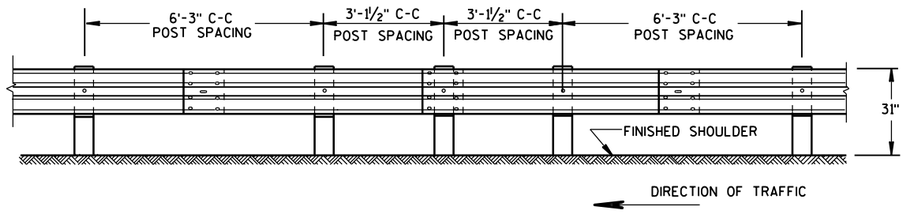
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 14 B 42-3a



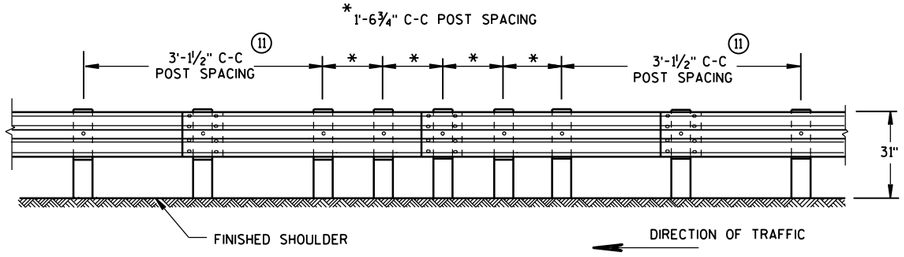
FRONT VIEW

POST SPACING STANDARD INSTALLATION



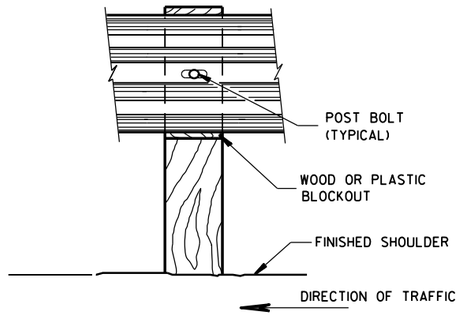
FRONT VIEW

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

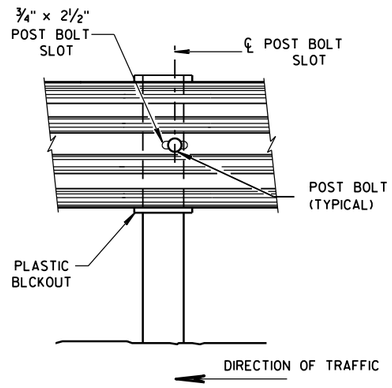


FRONT VIEW

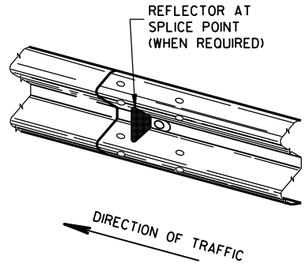
QUARTER POST SPACING (QS)

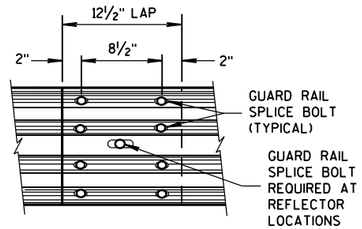


FRONT VIEW AT WOOD POST



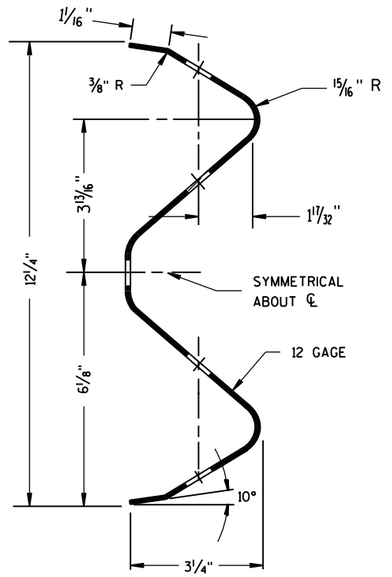
FRONT VIEW AT STEEL POST



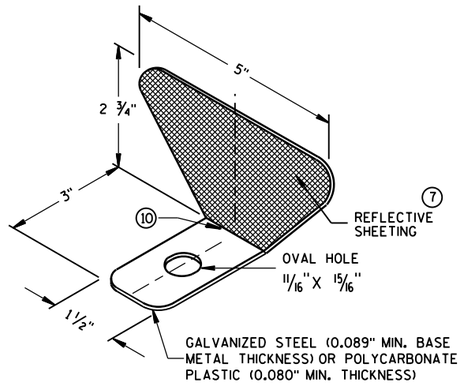


FRONT VIEW

MID-SPAN BEAM SPLICE



SECTION THRU W-BEAM RAIL



GENERAL NOTES

⑦ PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

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.

⑨ REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

⑩ PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

⑪ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

REFLECTOR SPACING ⑧

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 ⑨	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2 ⑩	

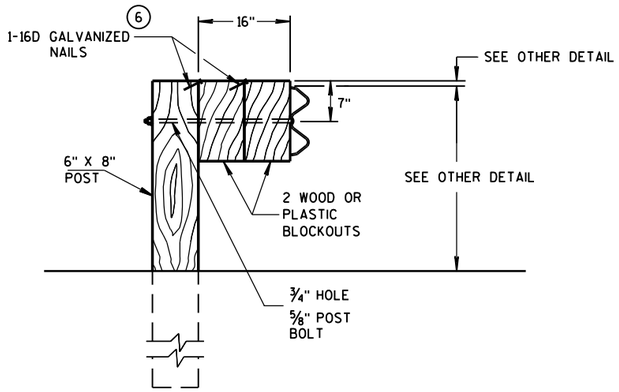
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION ⑦

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

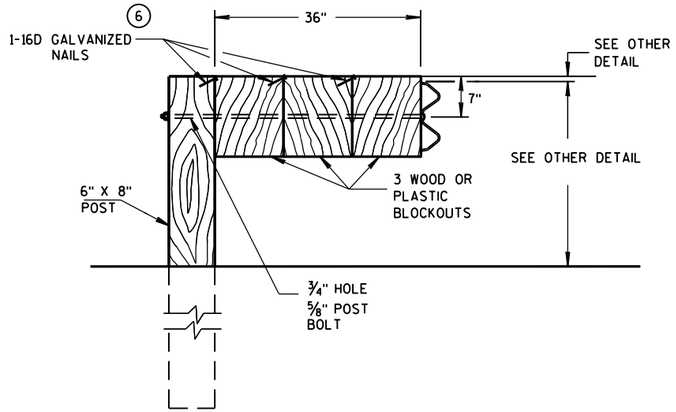
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S.D.D. 14 B 42-3b



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.

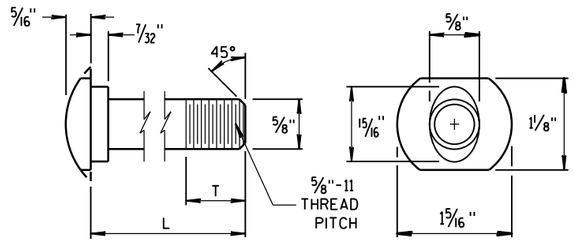


DETAIL FOR 36" BLOCKOUT DEPTH

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.

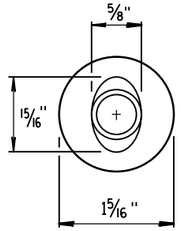
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

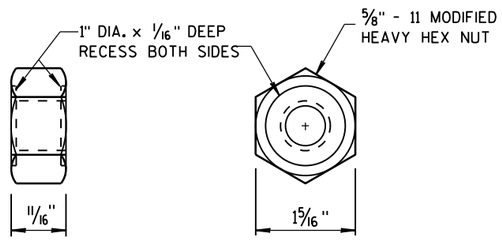


POST BOLT TABLE

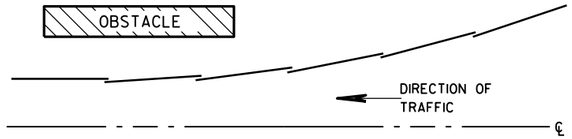
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

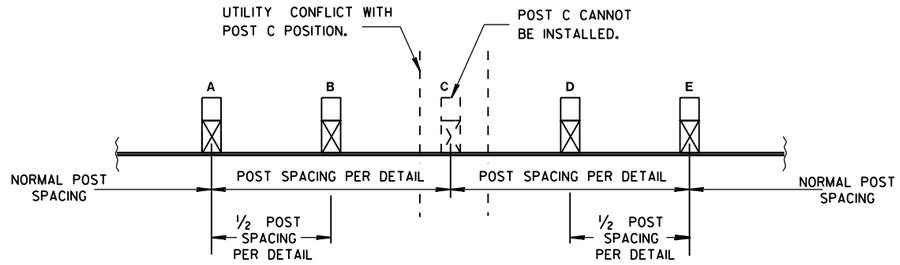


POST BOLT AND RECESS NUT

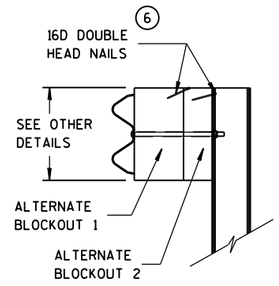


PLAN VIEW

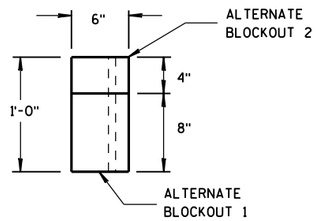
BEAM LAPPING DETAIL



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

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6
S.D.D. 14 B 42-3c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE EXTENDED VEHICLE RUNOUT PATH (EVRP), 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.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) SHEETING IS ATTACHED TO 0.040 ALUMINUM SHEET AND ATTACHED TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER OF E.A.T.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

SEE SDD 14B42 FOR MORE INFORMATION.

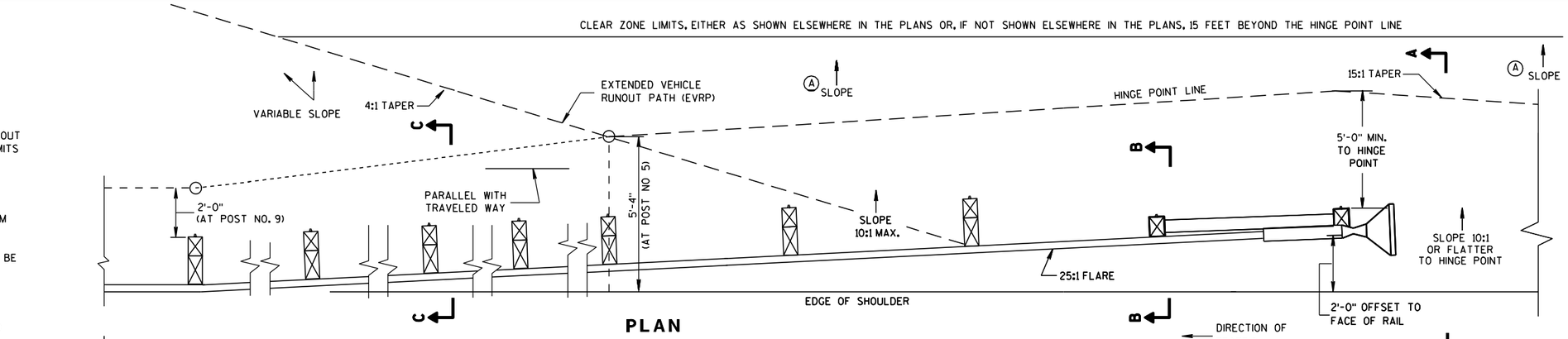
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

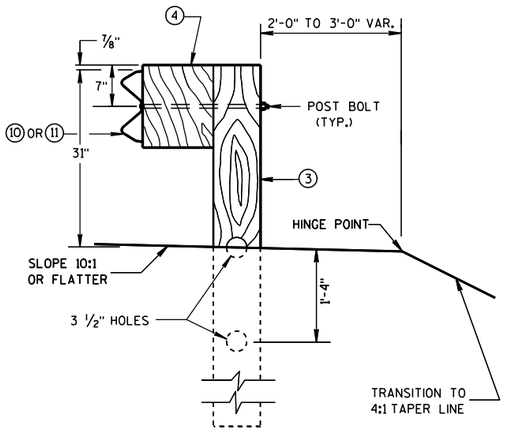
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

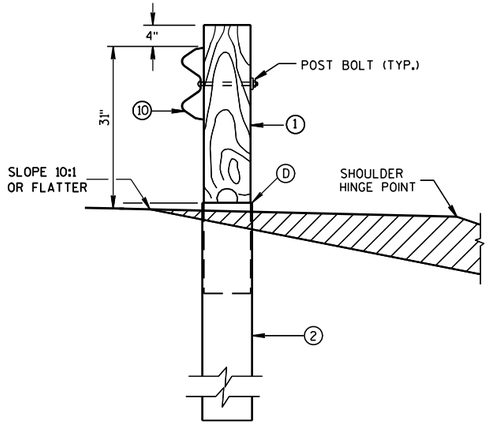
PATTERN AND COLORS ON REFLECTIVE SHEETING TYPE H ARE TO CONFORM TO OM3-L OR OM3-R OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE (± ¾")

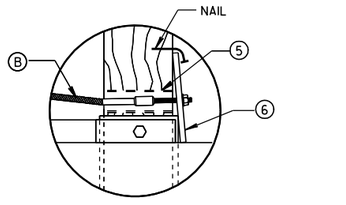


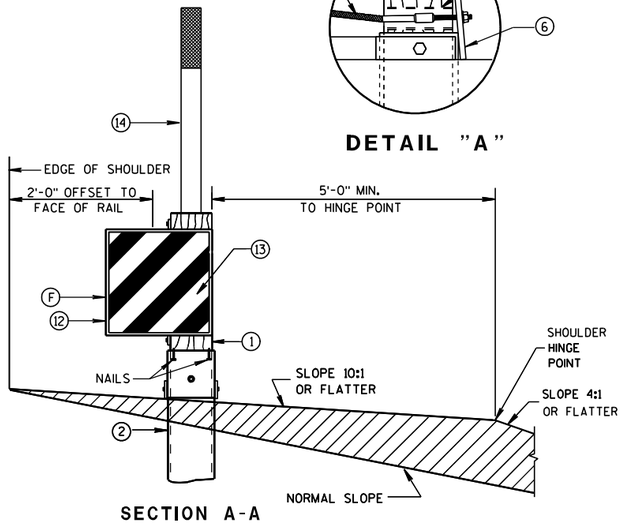


SECTION C-C
TYPICAL AT POST NOS. 3-9

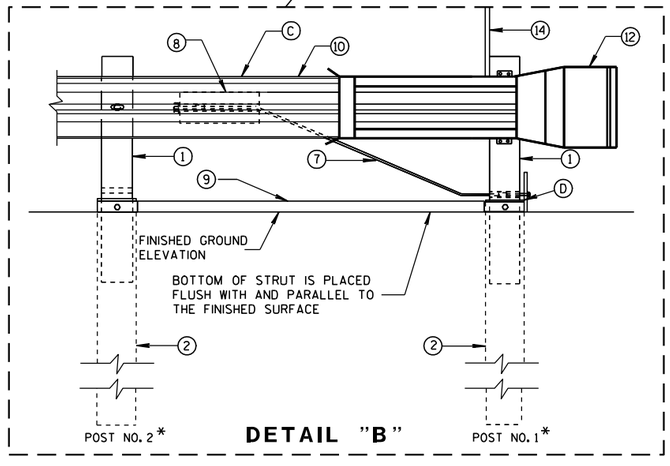


SECTION B-B
TYPICAL AT POST NO. 2*





SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

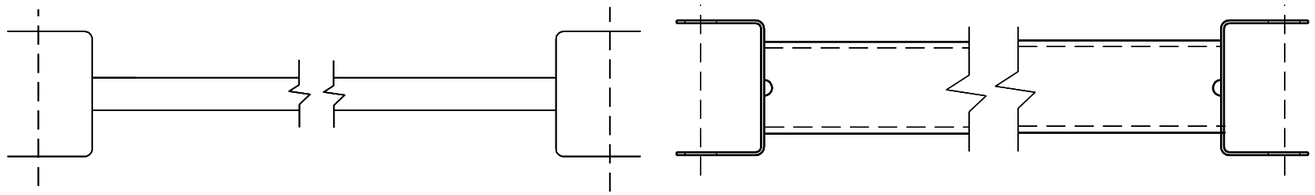
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 44-1a

6

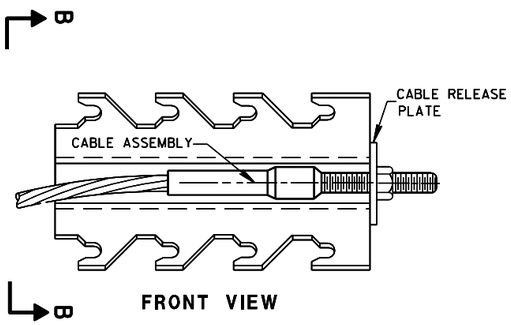
S.D.D. 14 B 44-1a



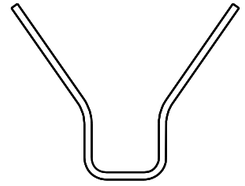
GENERIC GROUND STRUT (9) (H)

BILL OF MATERIALS

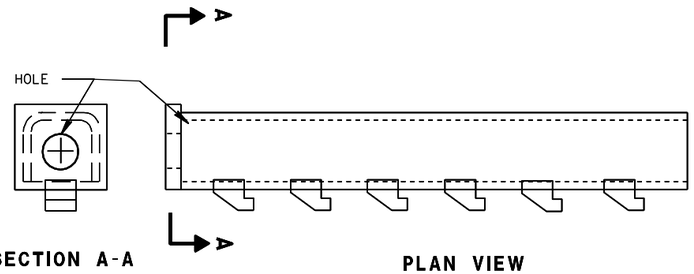
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR 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)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE H (ONLY THE SHEETING IS SUPPLIED BY THE MANUFACTURER)
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



FRONT VIEW



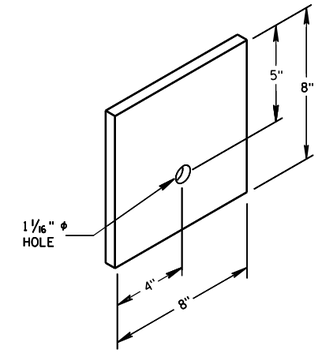
SECTION B-B



SECTION A-A

PLAN VIEW

GENERIC ANCHOR CABLE BOX (8) (H)



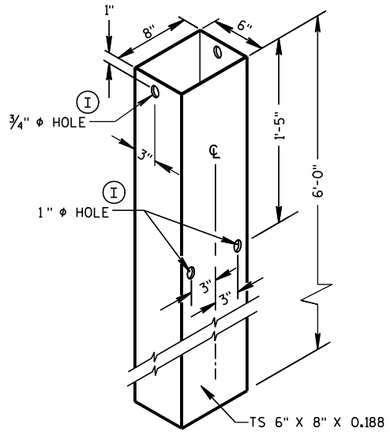
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

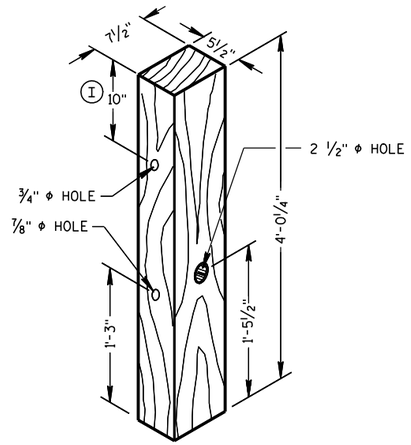
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 44-1b

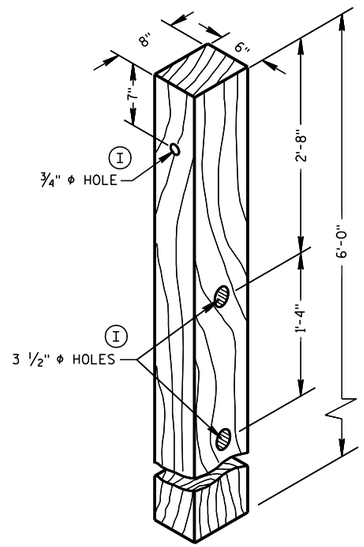


FOUNDATION TUBE (2)



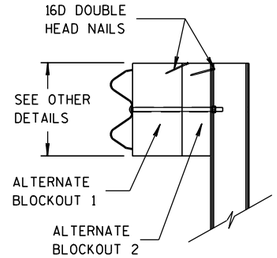
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

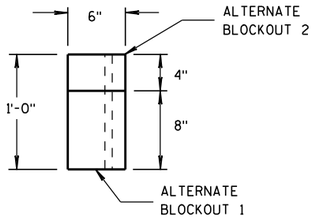


POSTS NUMBER 3-9

WOOD CRT POST (3)

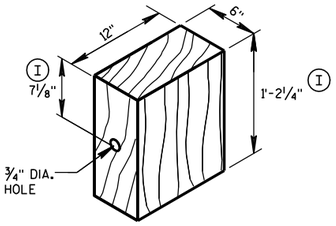


SIDE VIEW



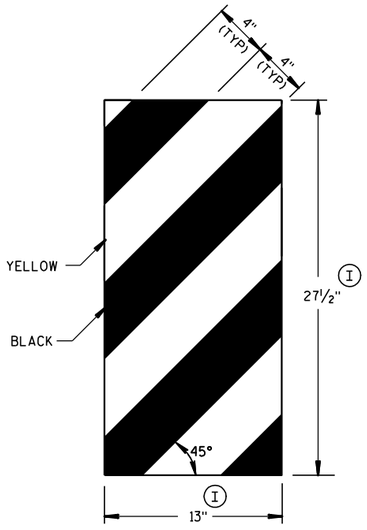
TOP VIEW

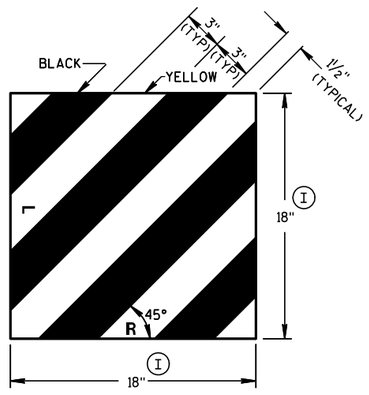
ALTERNATE WOOD BLOCKOUT DETAIL



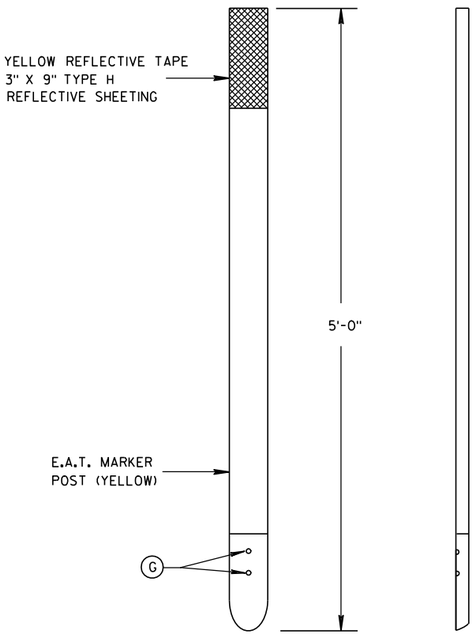
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





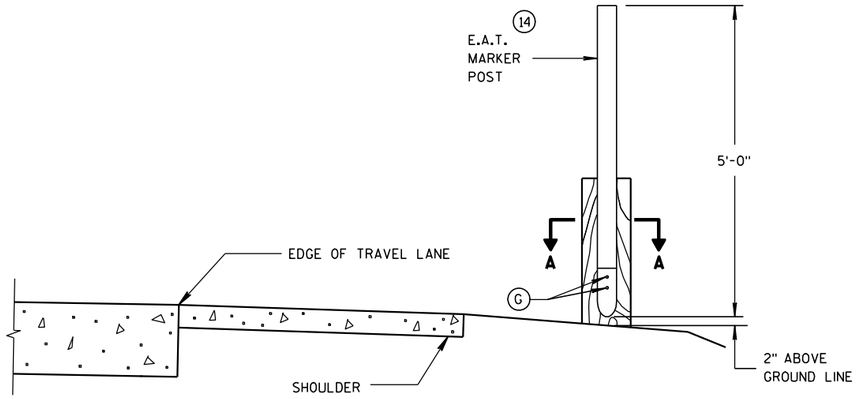
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

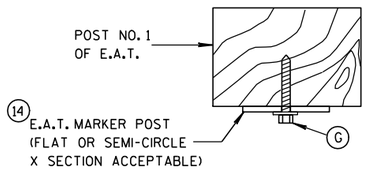
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/2011
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
185
FHWA

6

S.D.D. 14 B 44-1c

6

S.D.D. 14 B 44-1c

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.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

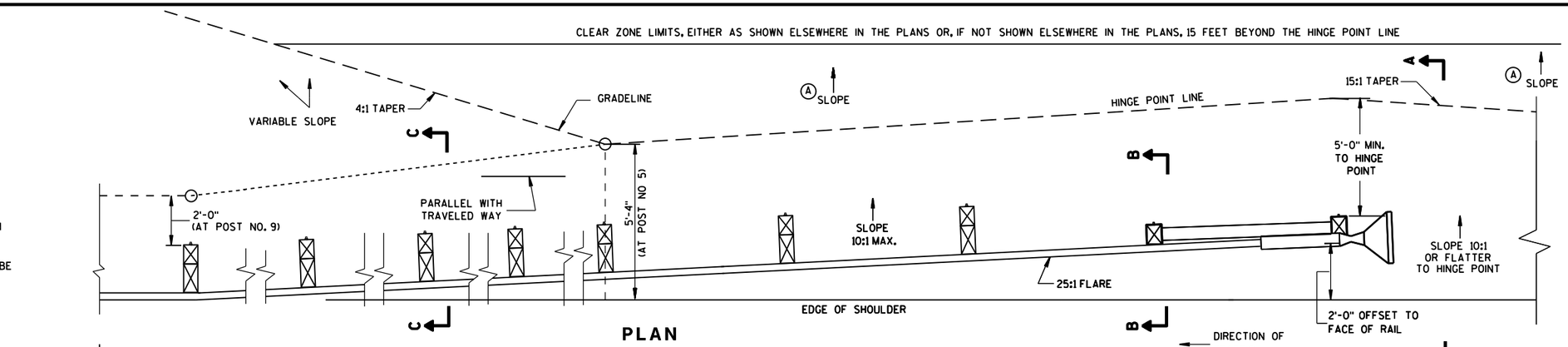
SEE SDD 14B42 FOR MORE INFORMATION.

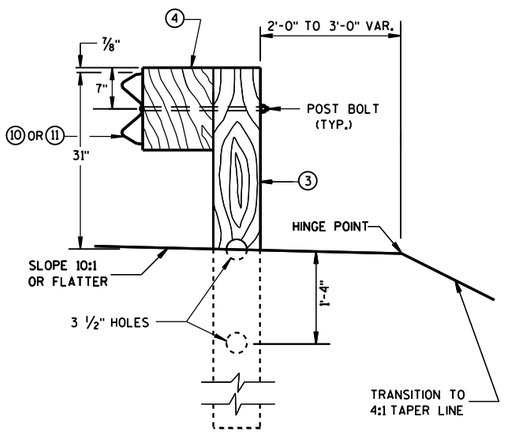
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

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

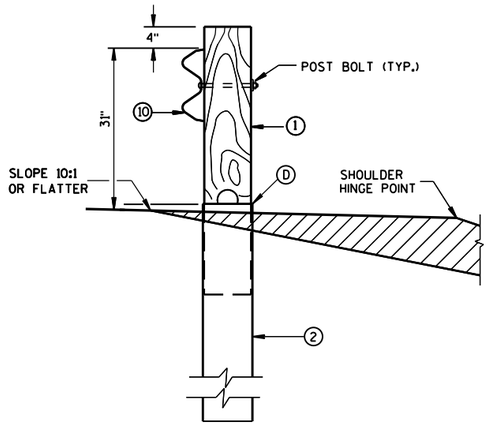
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

THE CENTER OF THE UPPER 3½" 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.

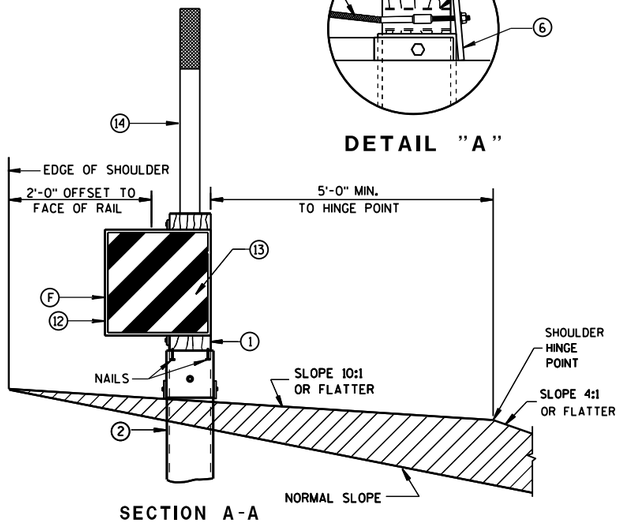




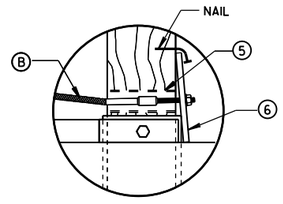
SECTION C-C
TYPICAL AT POST NOS. 3-9



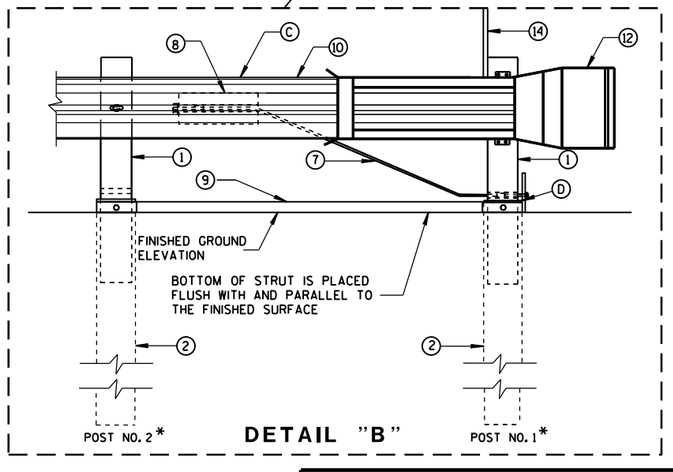
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"



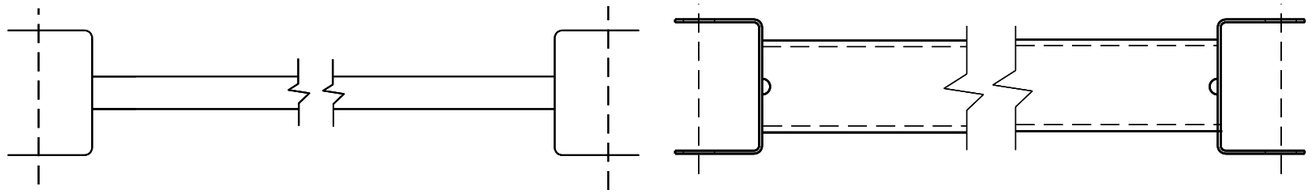
DETAIL "B"

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

S.D.D. 14 B 44-2a

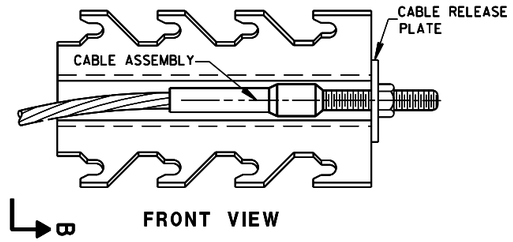
S.D.D. 14 B 44-2a



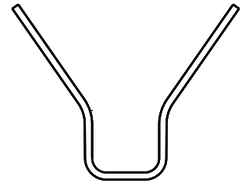
GENERIC GROUND STRUT (9) (H)

BILL OF MATERIALS

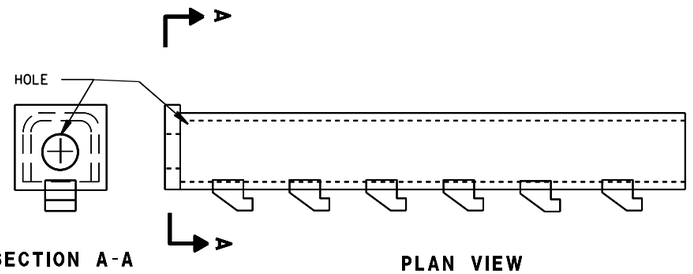
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR 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)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



FRONT VIEW



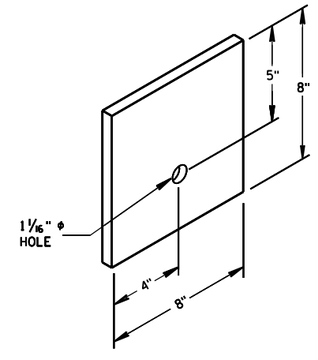
SECTION B-B



SECTION A-A

PLAN VIEW

GENERIC ANCHOR CABLE BOX (8) (H)



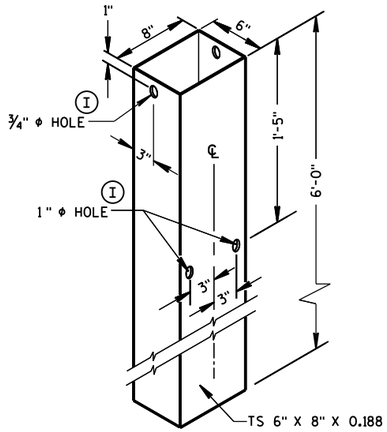
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

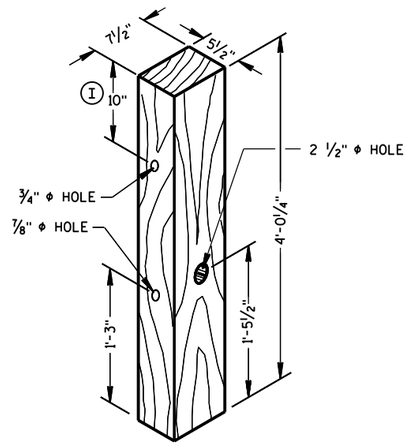
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 44-2b

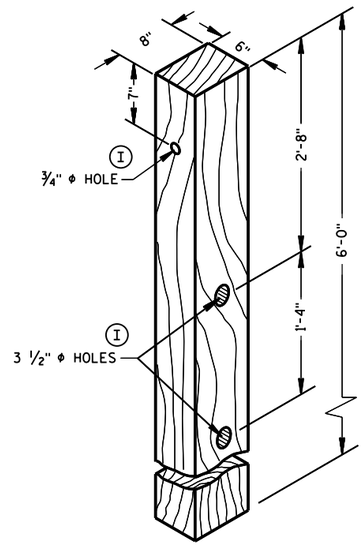


FOUNDATION TUBE (2)



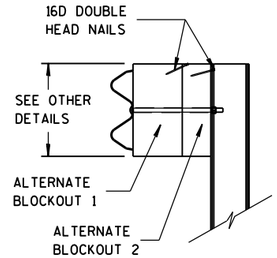
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

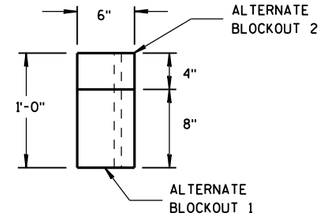


POSTS NUMBER 3-9

WOOD CRT POST (3)

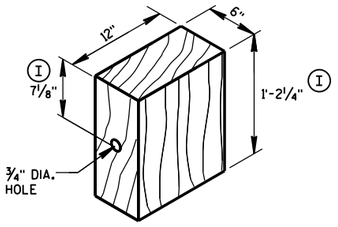


SIDE VIEW



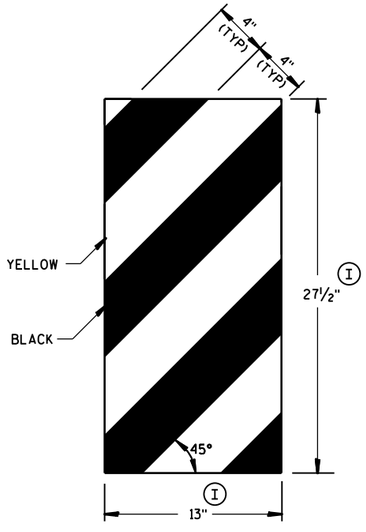
TOP VIEW

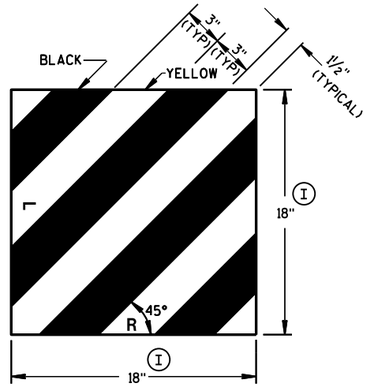
ALTERNATE WOOD BLOCKOUT DETAIL



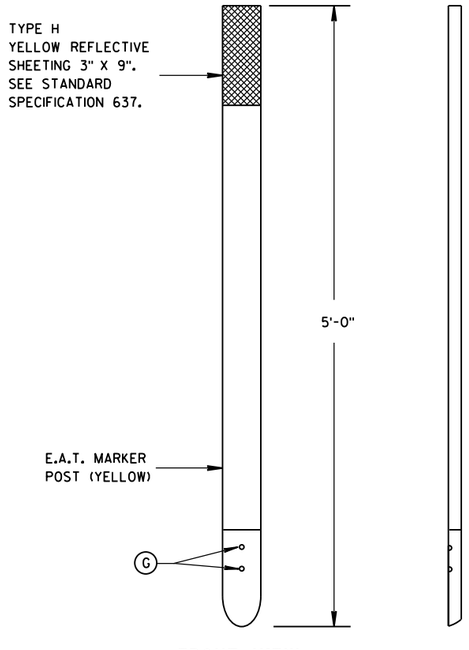
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





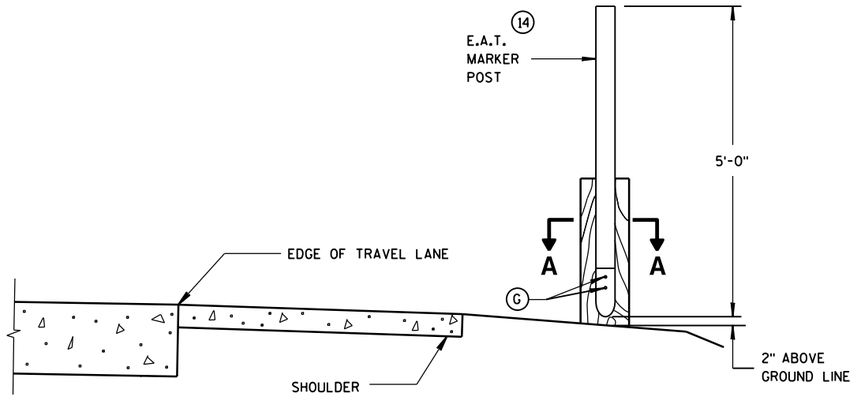
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

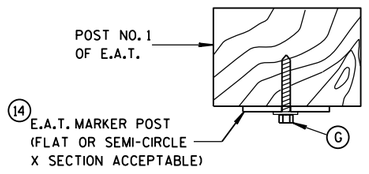
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

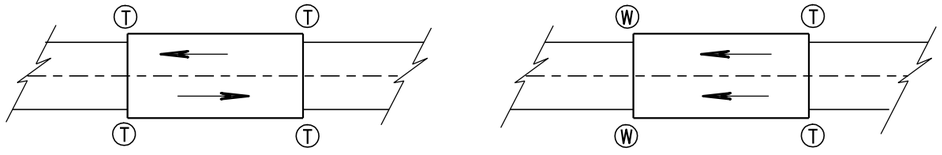
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 44-2c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

Ⓣ THRIE BEAM CONNECTION

Ⓦ W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

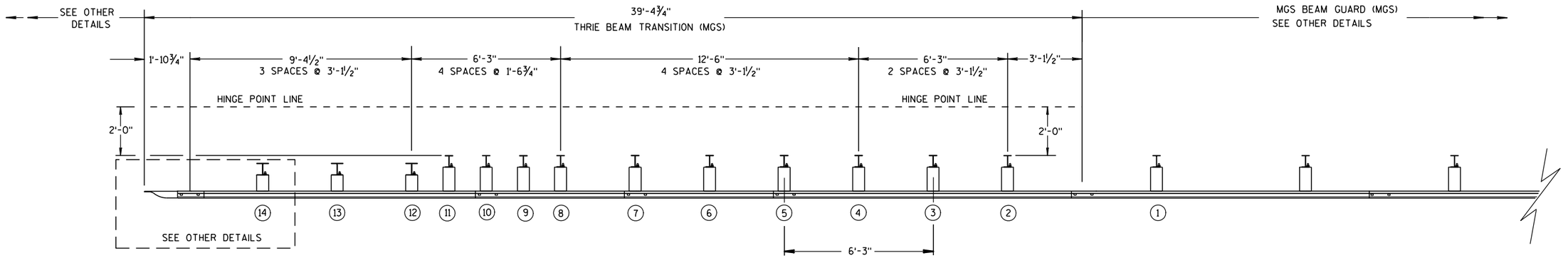
BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3.

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

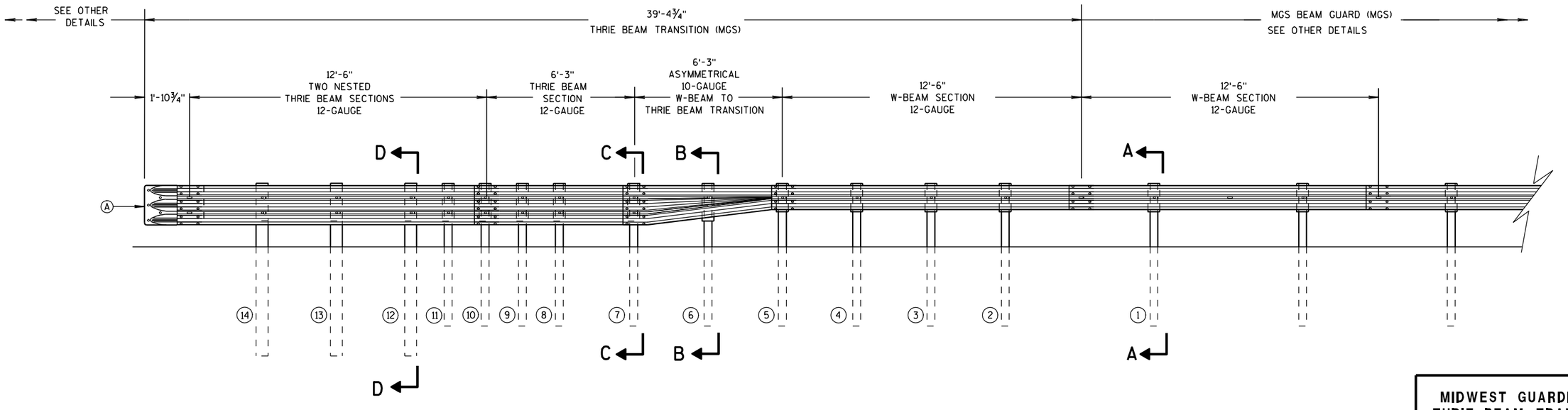
TRANSITION USES STEEL POSTS ONLY.

SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

Ⓐ BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

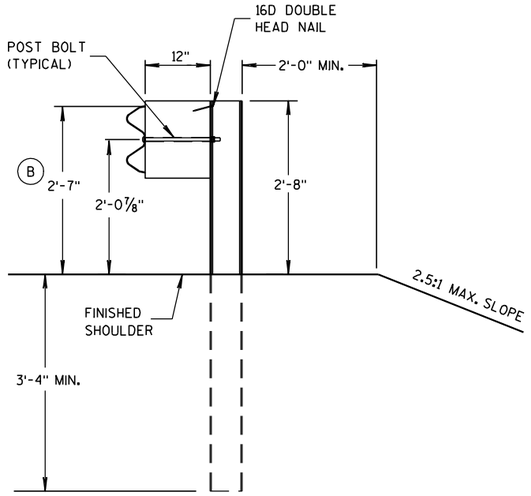
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 45-3a

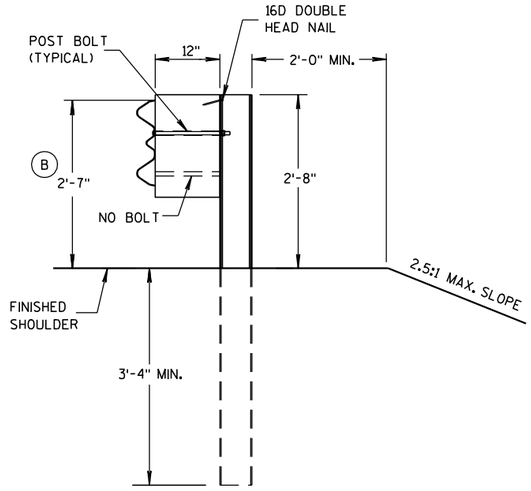
GENERAL NOTES

(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



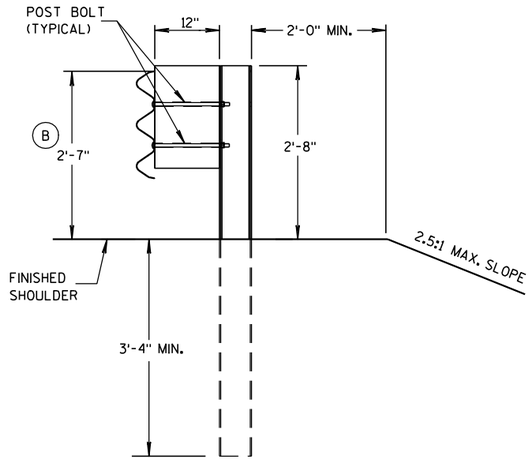
SECTION A-A

POSTS 1-5



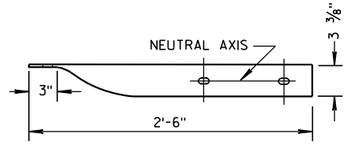
SECTION B-B

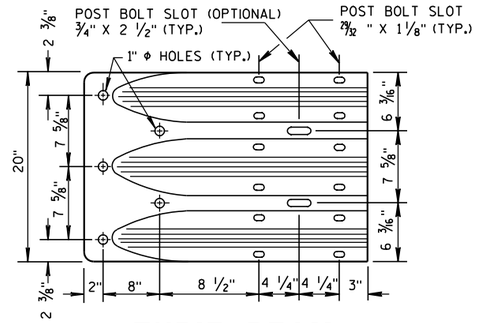
POST 6



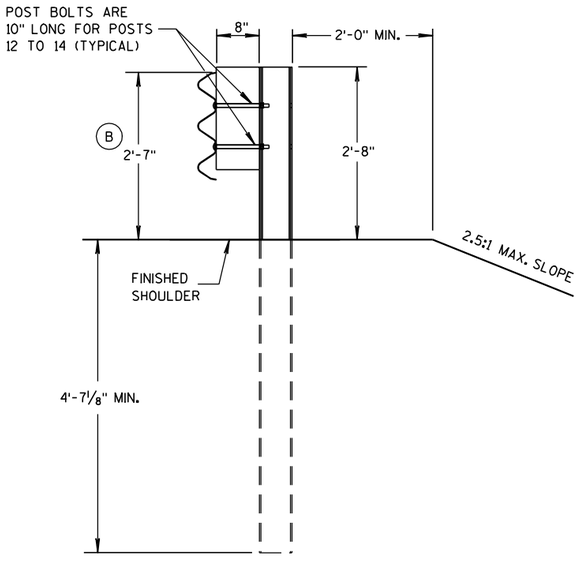
SECTION C-C

POSTS 7-11



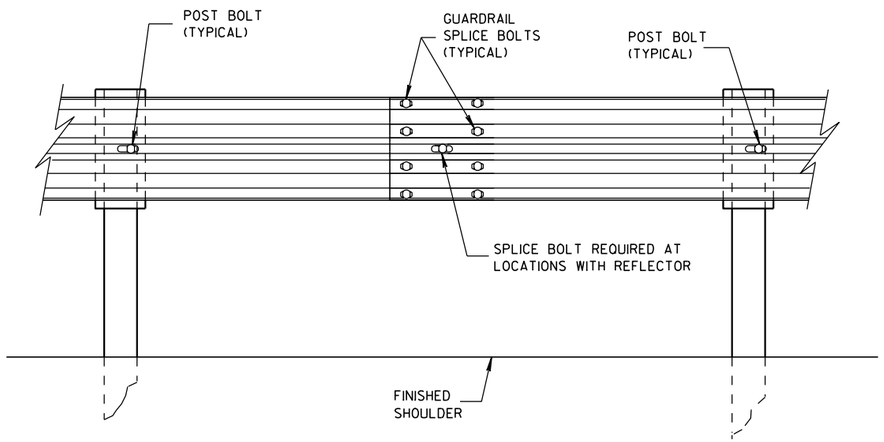


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-14



SPLICE DETAIL

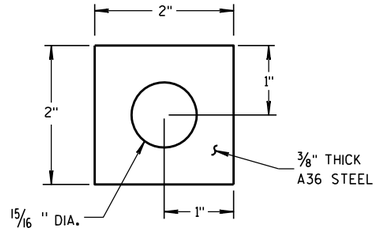
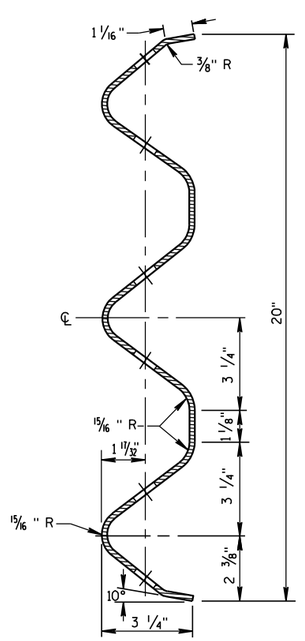


PLATE WASHER DETAIL



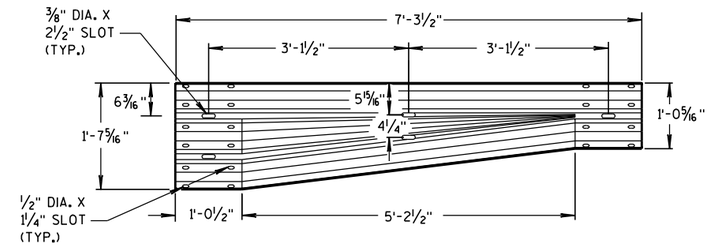
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

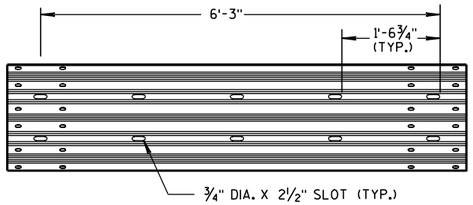
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

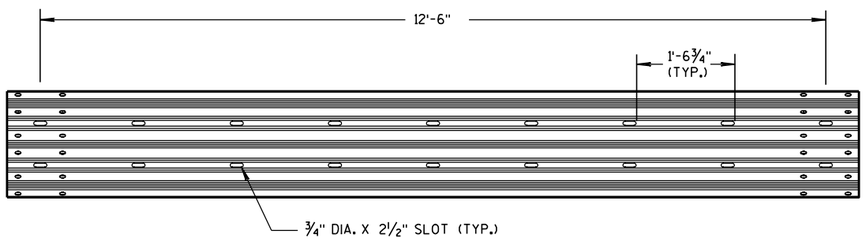
S.D.D. 14 B 45-3b



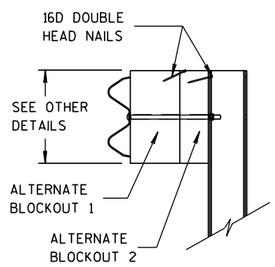
W-BEAM TO THRIE BEAM TRANSITION SECTION



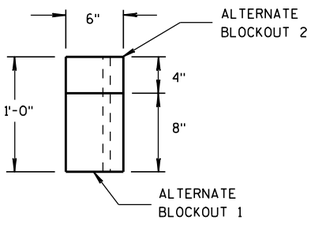
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

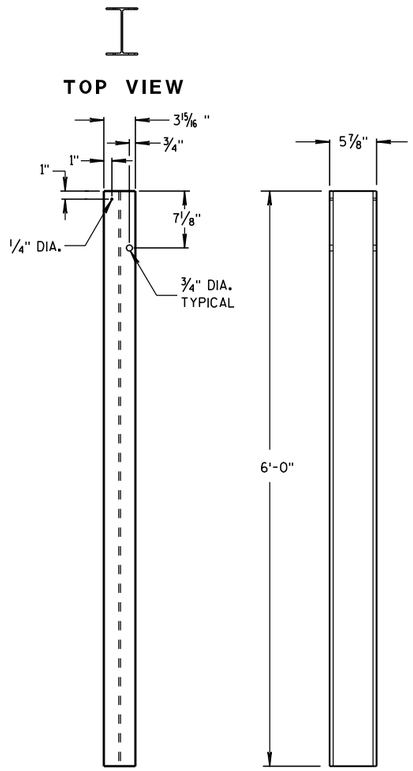


SIDE VIEW

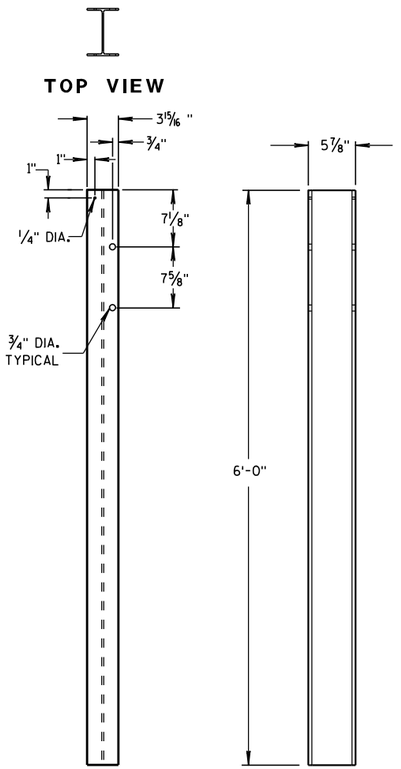


TOP VIEW

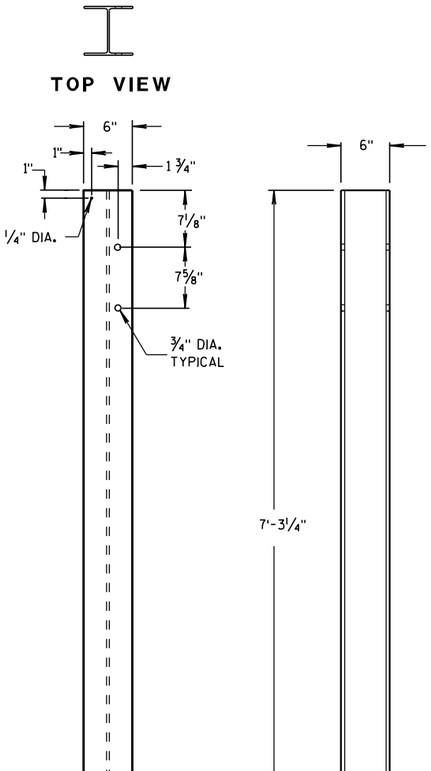
ALTERNATE WOOD BLOCKOUT DETAIL



STEEL POSTS 1-5

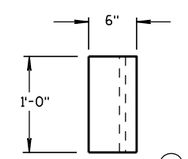


STEEL POSTS 6-11

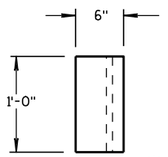


STEEL POSTS 12-14

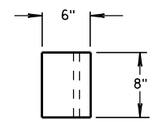
(1) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.



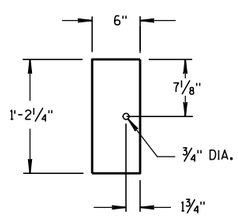
TOP VIEW (1)



TOP VIEW (1)

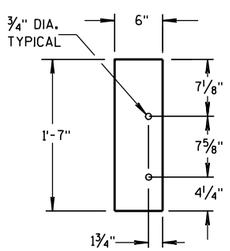


TOP VIEW



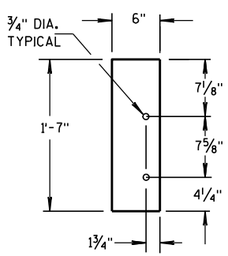
FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-11



FRONT VIEW

BLOCKOUT POSTS 12-14

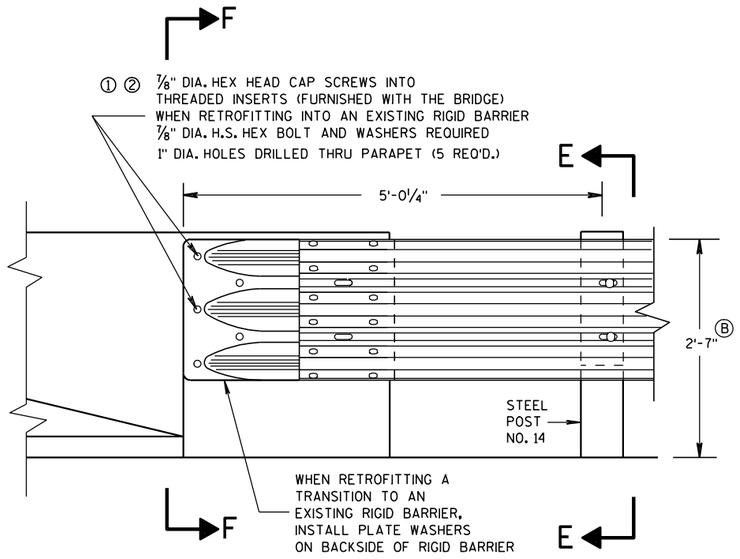
STEEL POST SIZES

POST NUMBER	SECTION TYPE	LENGTH
1	W6x9	72"
2	W6x9	72"
3	W6x9	72"
4	W6x9	72"
5	W6x9	72"
6	W6x9	72"
7	W6x9	72"
8	W6x9	72"
9	W6x9	72"
10	W6x9	72"
11	W6x9	72"
12	W6x15	87 1/8"
13	W6x15	87 1/8"
14	W6x15	87 1/8"

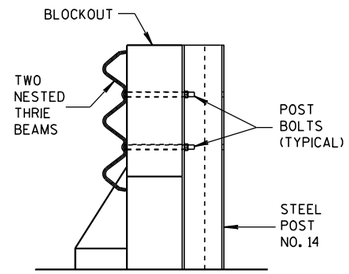
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 45-3c



FRONT VIEW



SECTION E-E

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

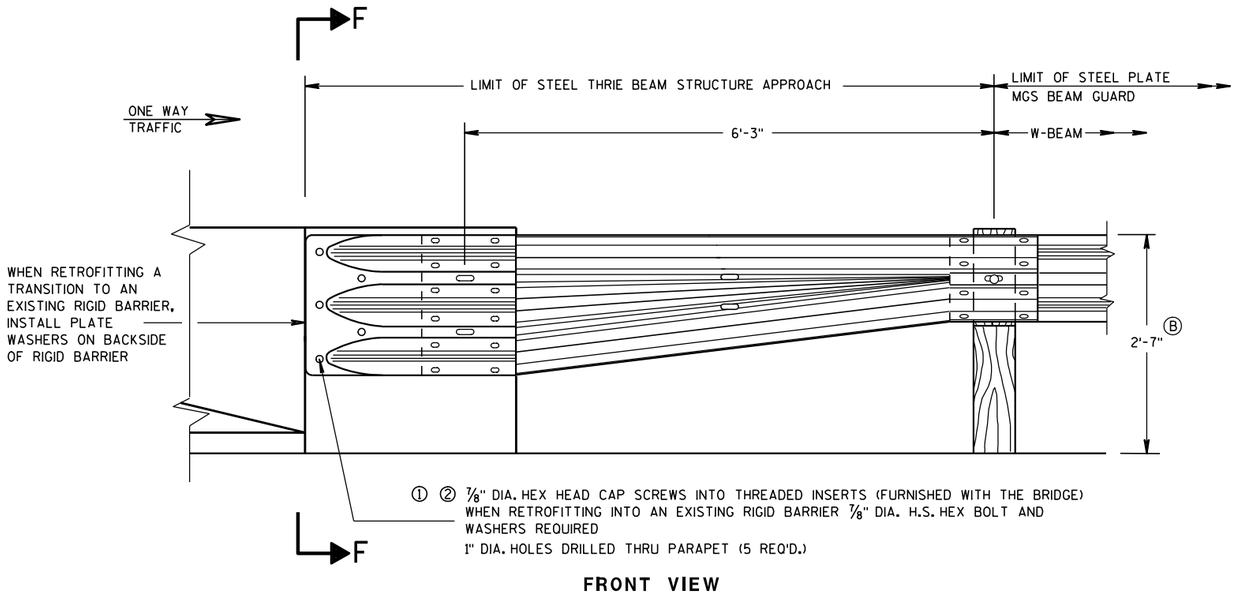
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

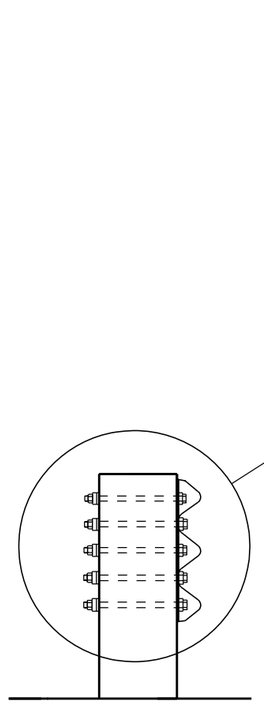
③ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".

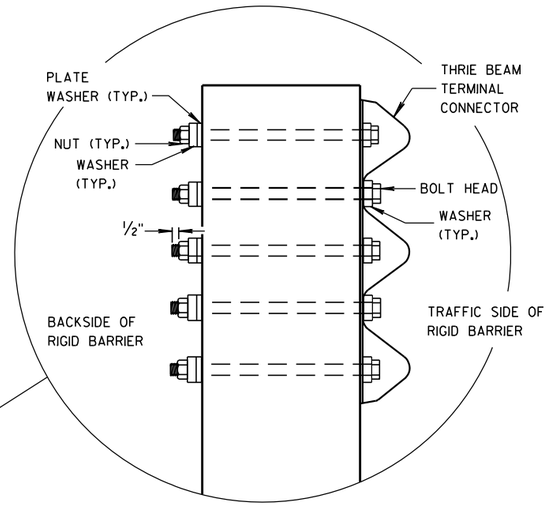
THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS



FRONT VIEW



SECTION F-F



W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS [illegible]
ENGINEER

FHWA

6

S.D.D. 14 B 45-3d

6

S.D.D. 14 B 45-3d

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

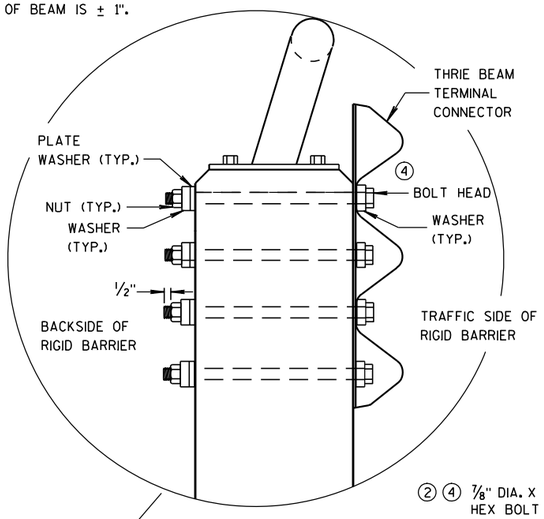
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

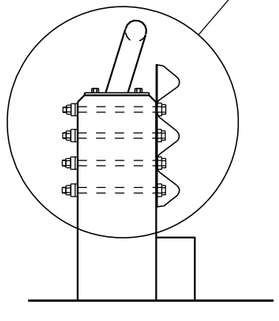
② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

③ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2". BLOCK IS INCIDENTAL TO THE CONTRACT.

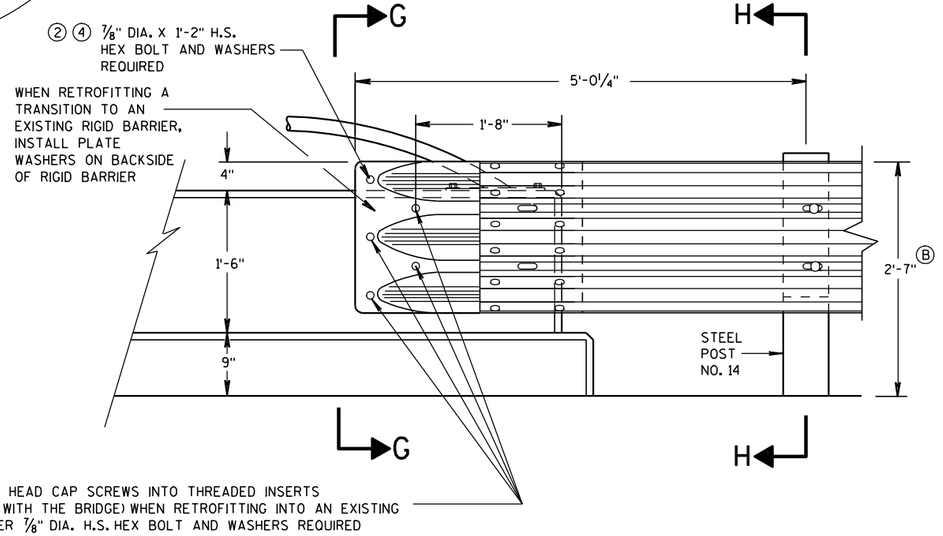
④ BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.

Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".

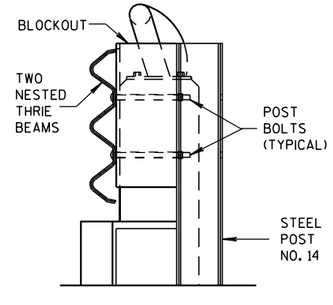




SECTION G-G

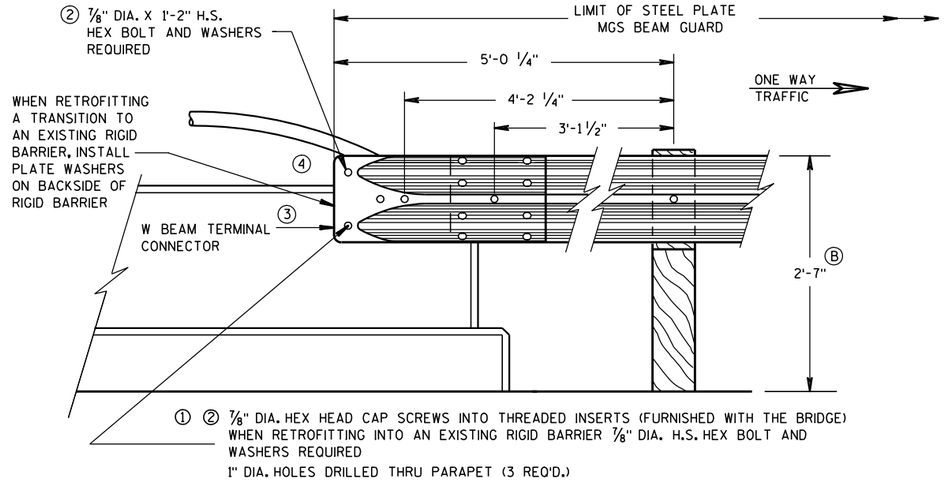


FRONT VIEW



SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

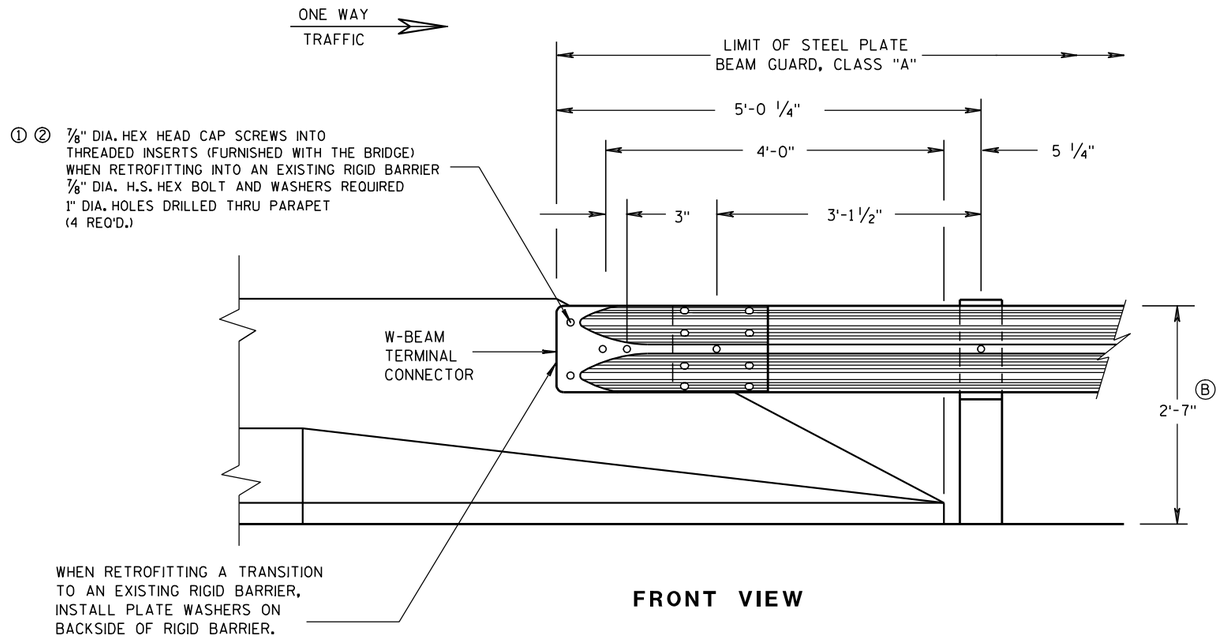


FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
8-31-2012 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

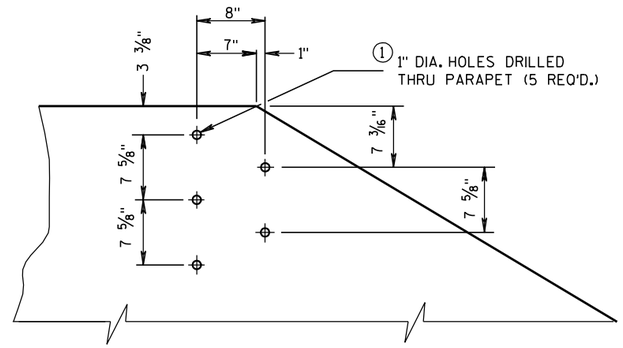
(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

GENERAL NOTES

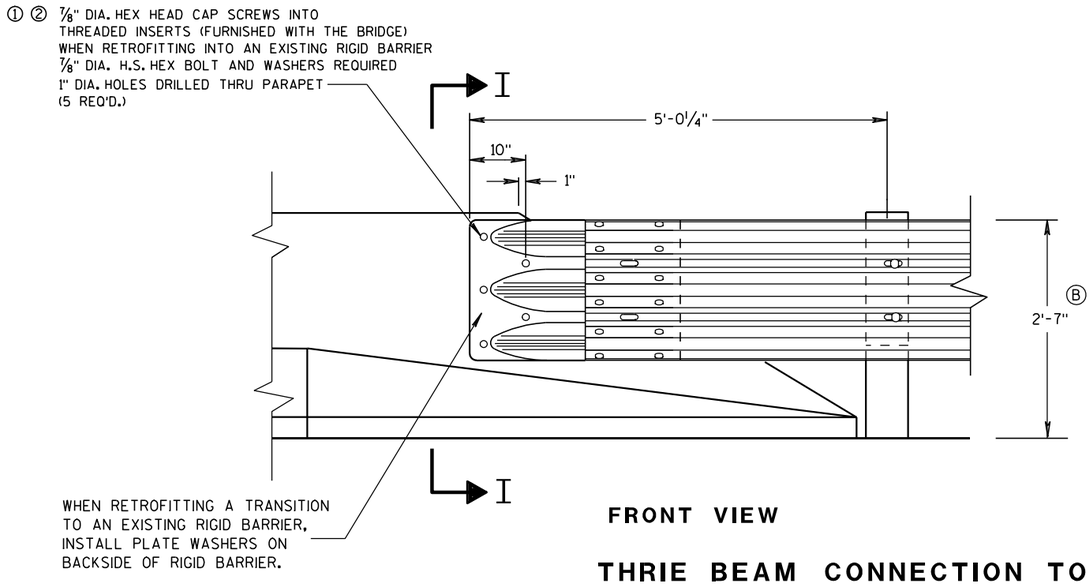
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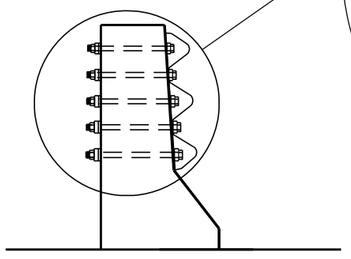
Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".



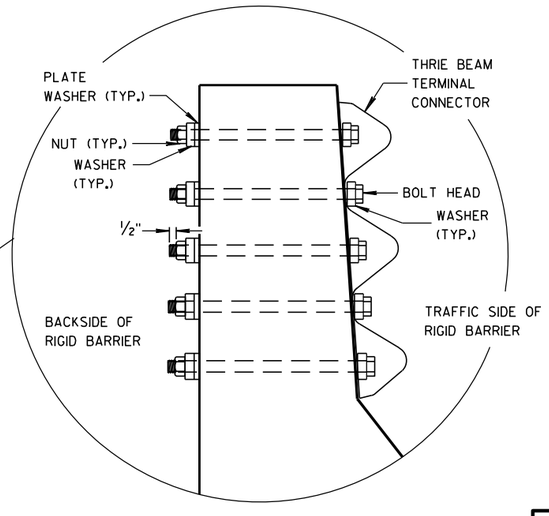
DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER

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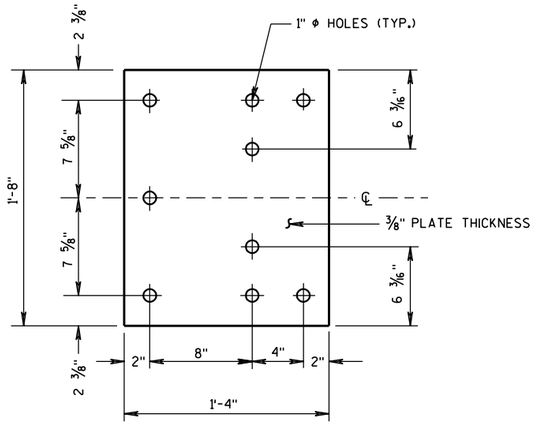
FHWA

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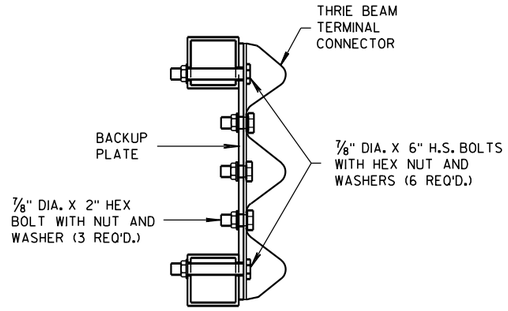
S.D.D. 14 B 45-3f

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S.D.D. 14 B 45-3f



BACK-UP PLATE DETAIL

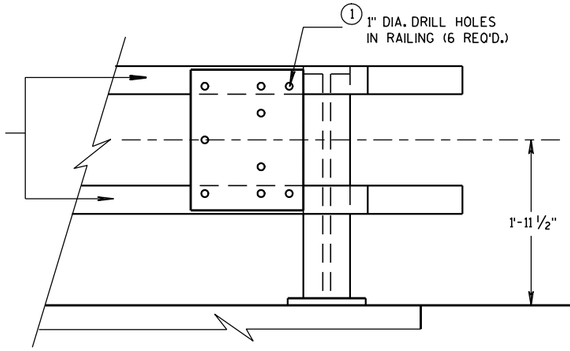


SECTION J-J

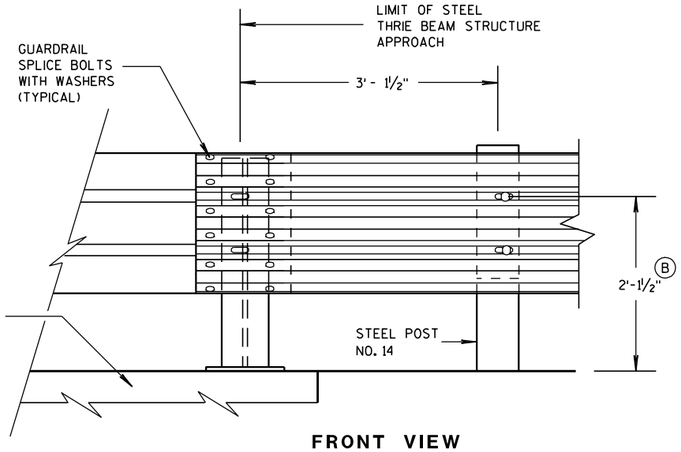
GENERAL NOTES

(1) DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(B) TOLERANCE FOR TOP OF BEAM IS ± 1".

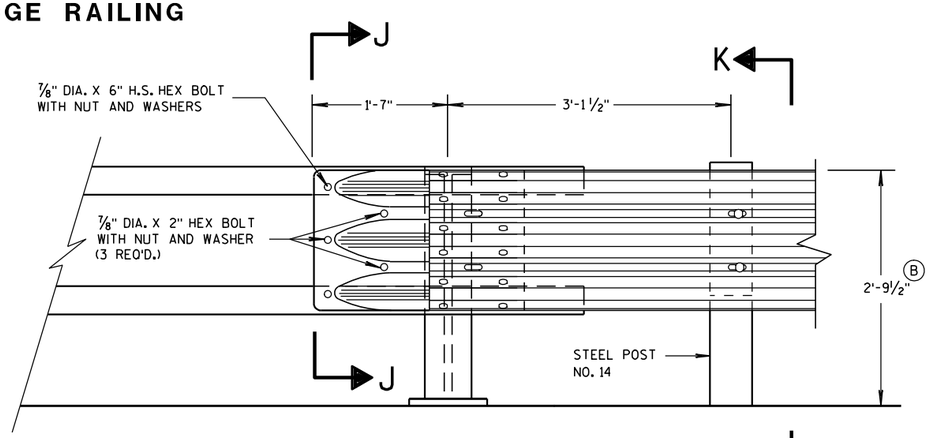


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

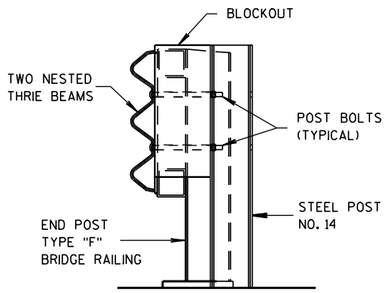


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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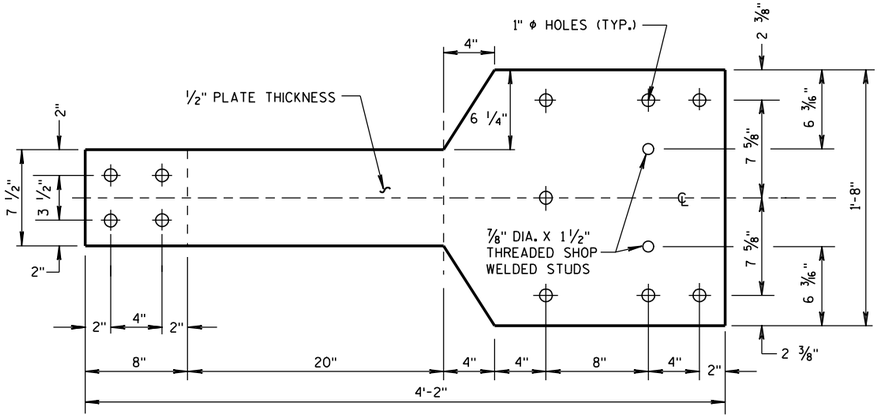
S.D.D. 14 B 45-3g

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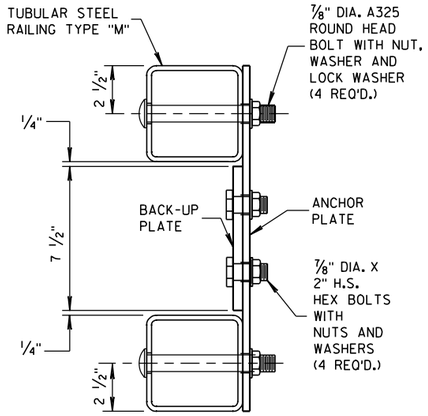
S.D.D. 14 B 45-3g

GENERAL NOTES

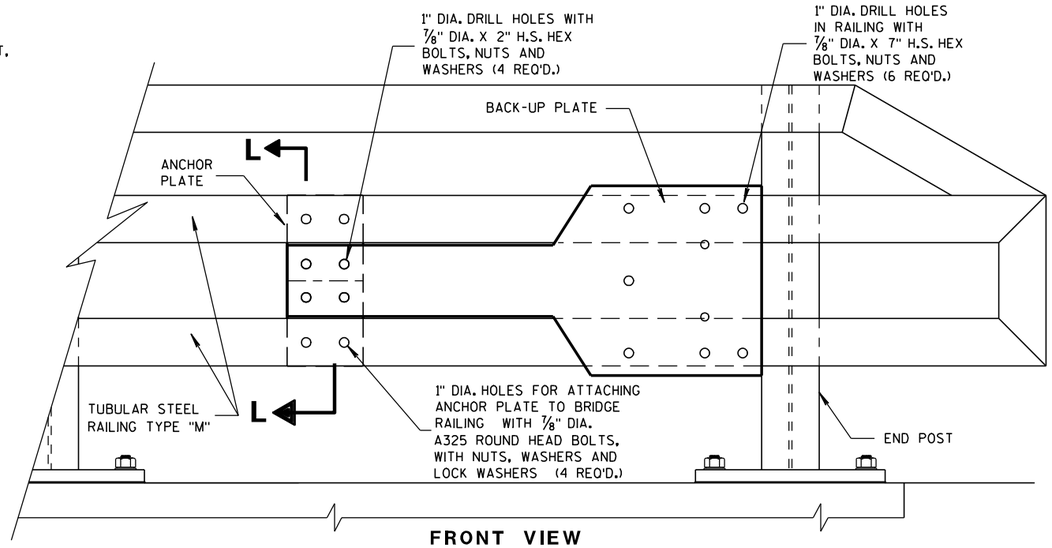
(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



FRONT VIEW

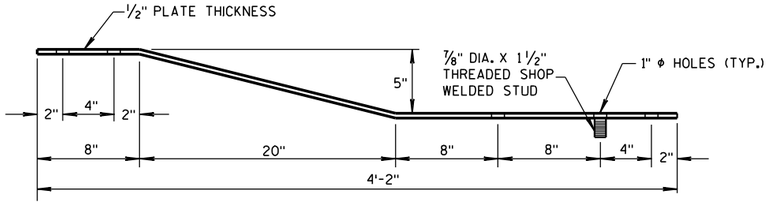


SECTION L-L



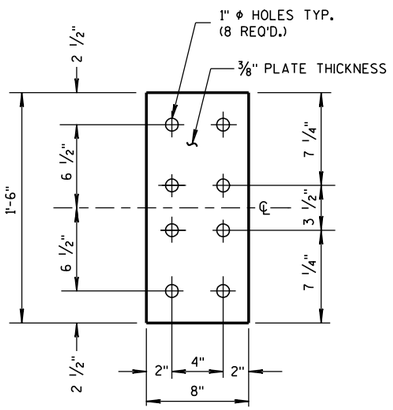
FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



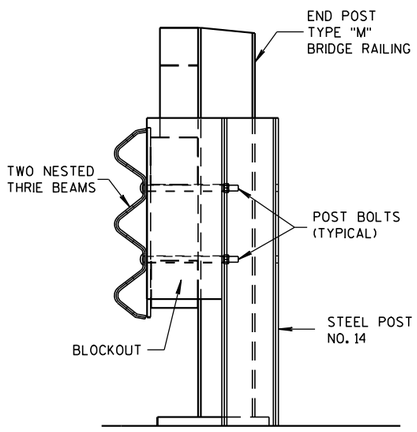
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

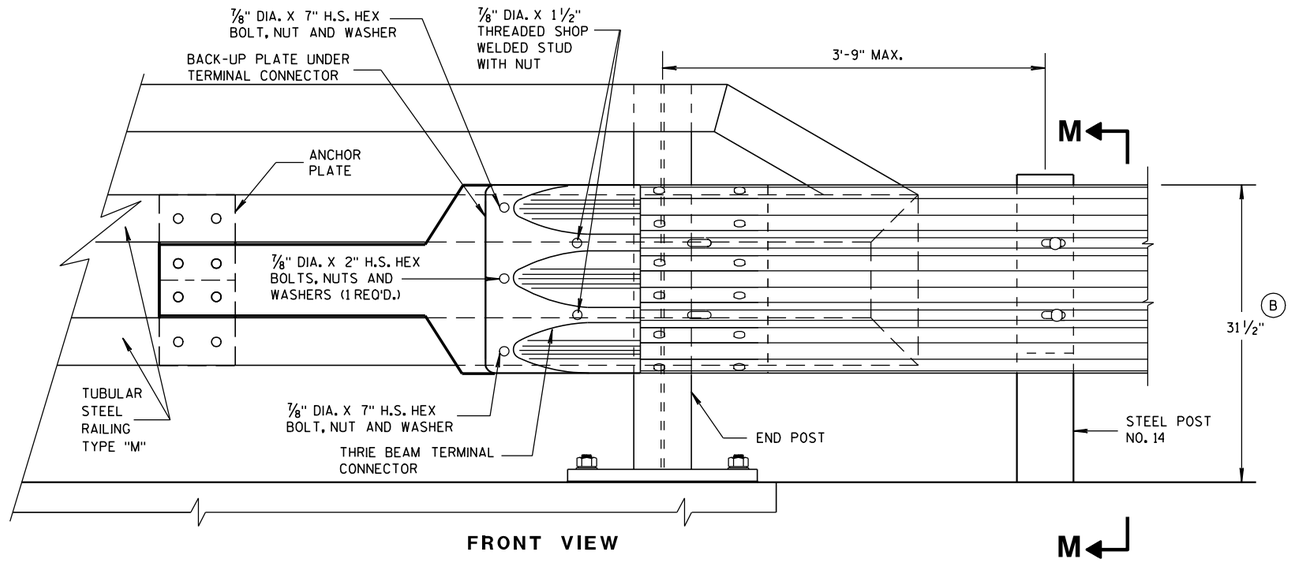


FRONT VIEW

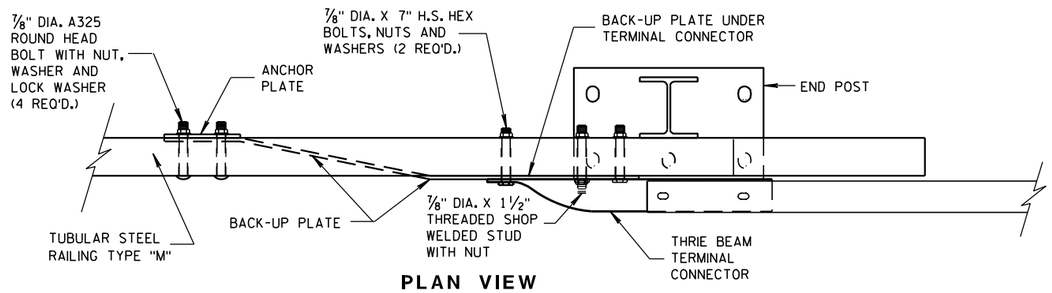
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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8-31-2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

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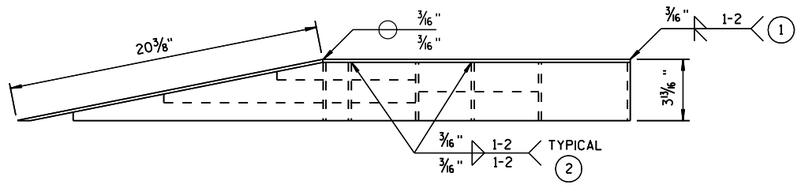
FHWA

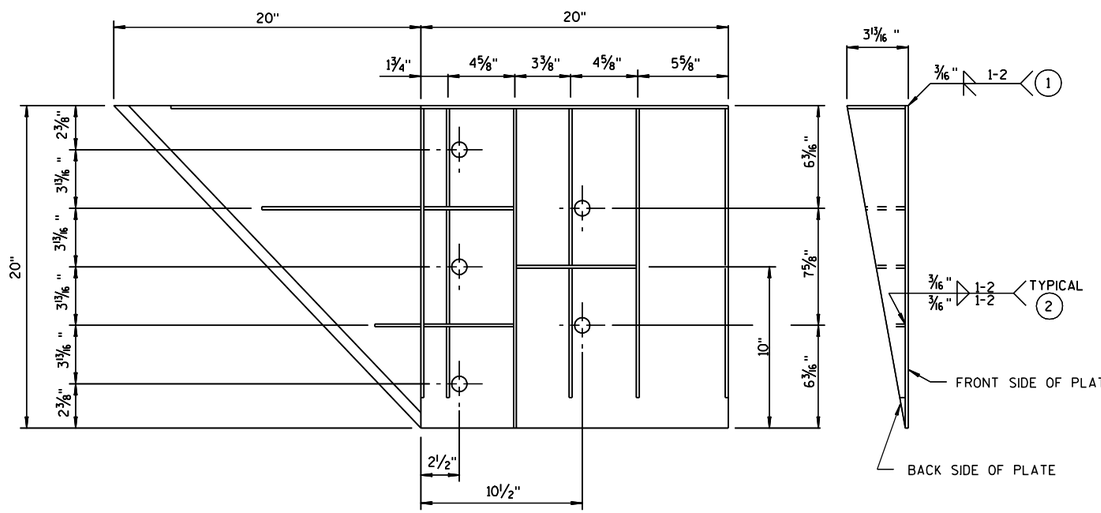
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S.D. 14 B 45-3h

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S.D. 14 B 45-3h





WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(1) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(2) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".

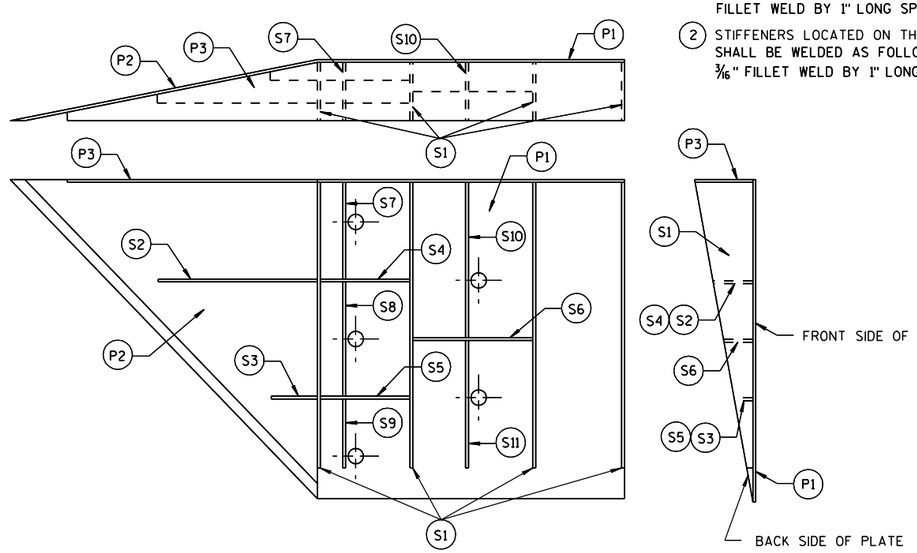


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

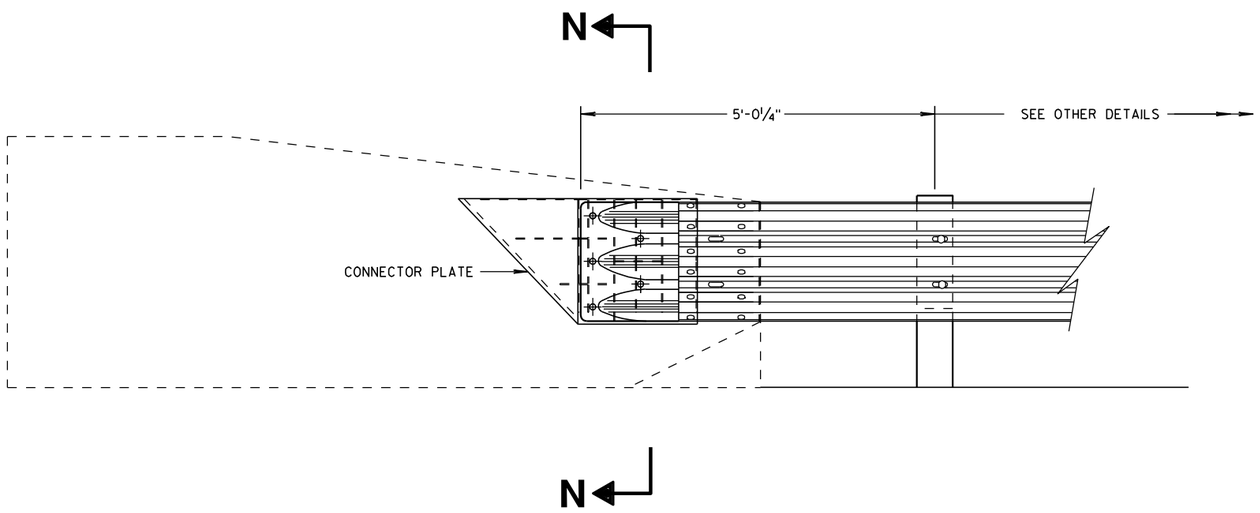
CONNECTOR PLATE DIMENSION (PER ASSEMBLY)				
PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

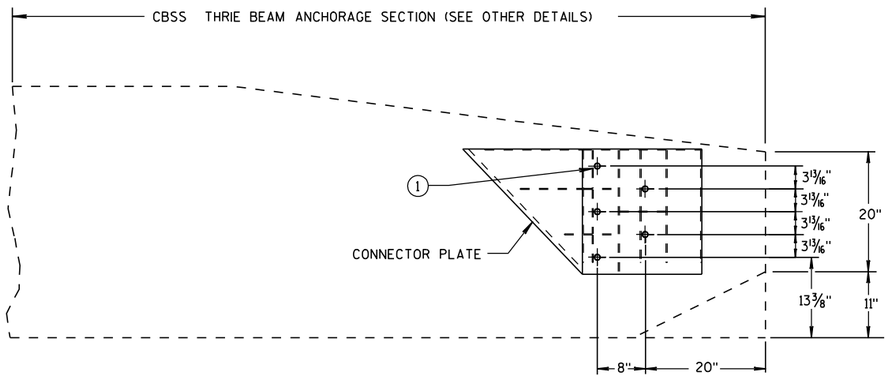
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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8/31/2012
DATE
/S/ Jerry H ...
ROADWAY STANDARDS ENGINEER
197
...MENT
FHWA



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

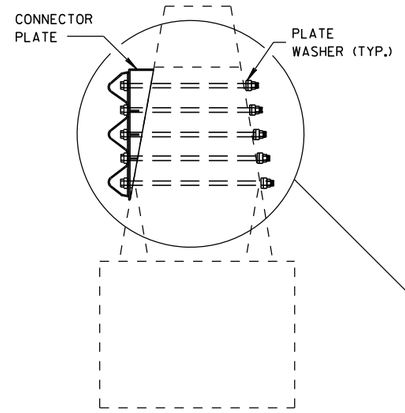


SINGLE SLOPE CONNECTION PLATE PLACEMENT

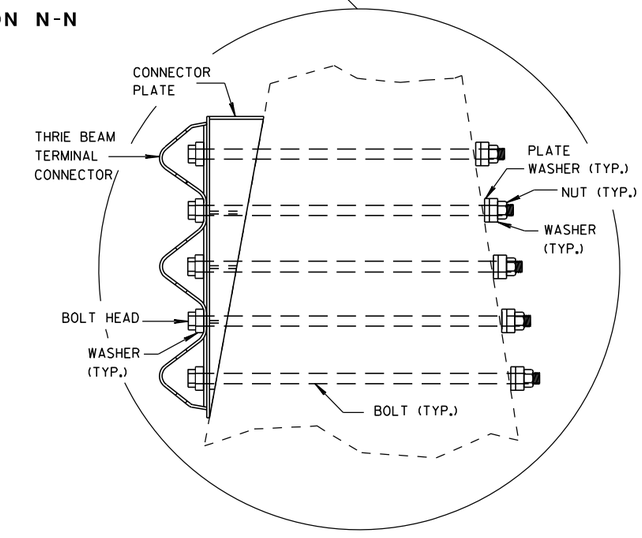
GENERAL NOTES

CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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8/31/2012
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS [illegible] ENGINEER

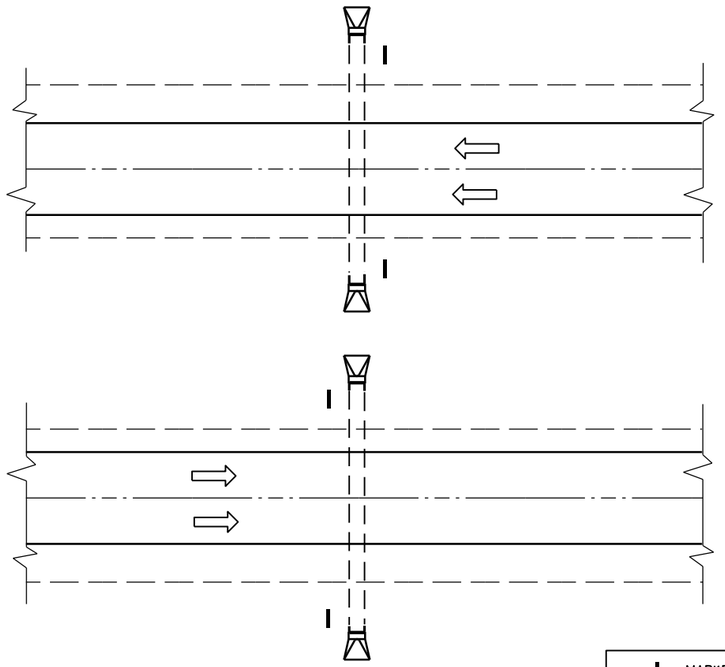
FHWA

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S.D.D. 14 B 45-3j

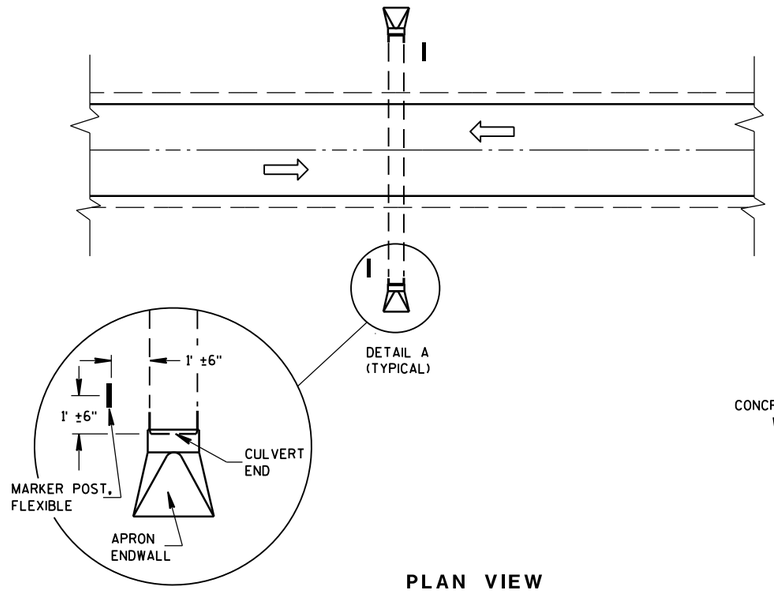
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S.D.D. 14 B 45-3j



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

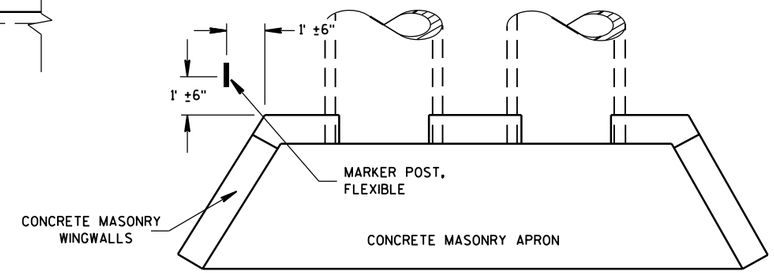
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

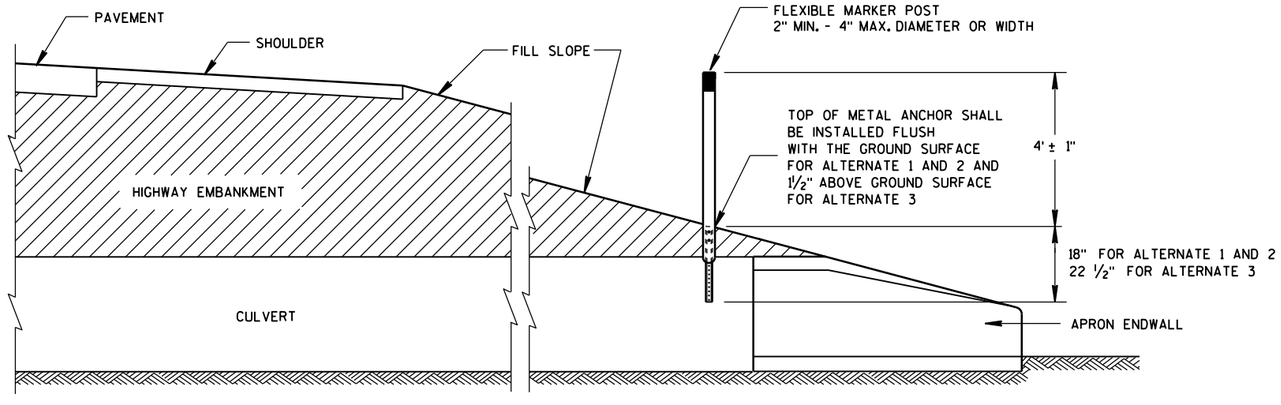
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

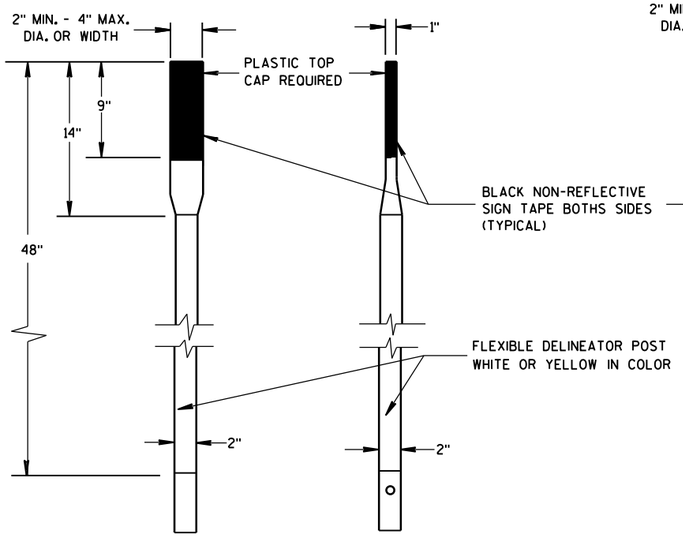
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

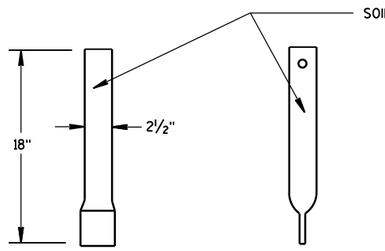
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S.D.D. 15 A 3-2a

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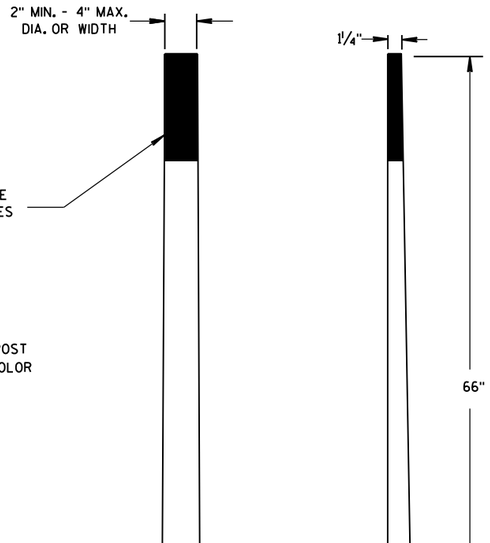
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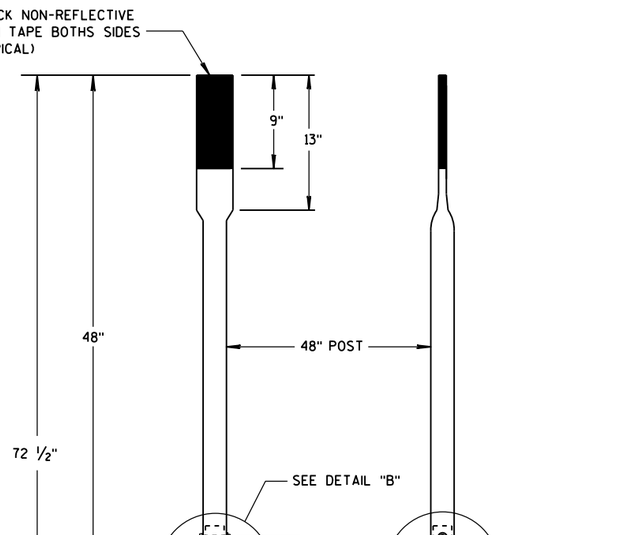
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

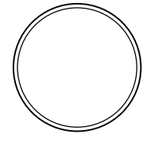
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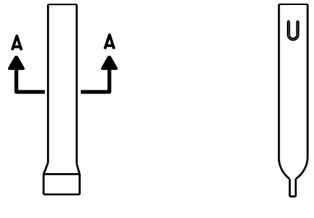
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

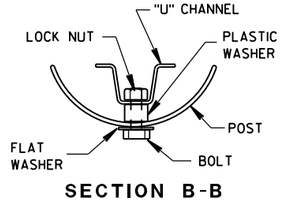


SECTION A-A

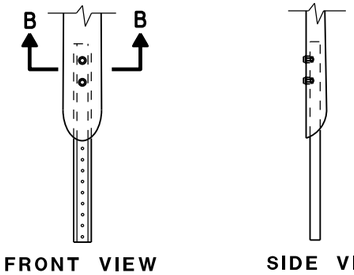


FRONT VIEW SIDE VIEW

ALTERNATE 1

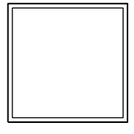


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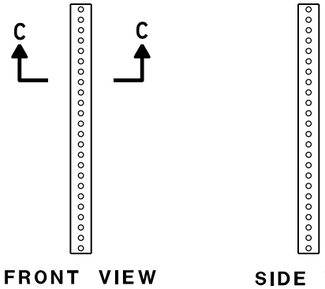


FRONT VIEW SIDE VIEW

ALTERNATE 2



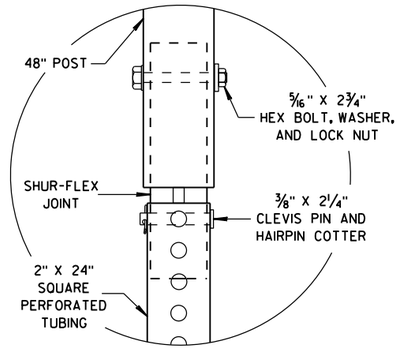
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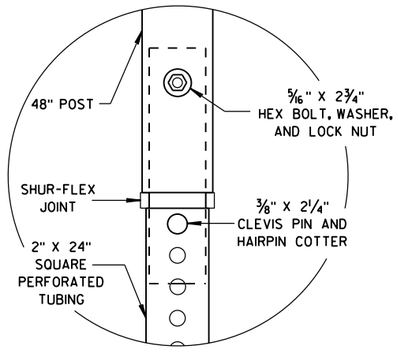
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

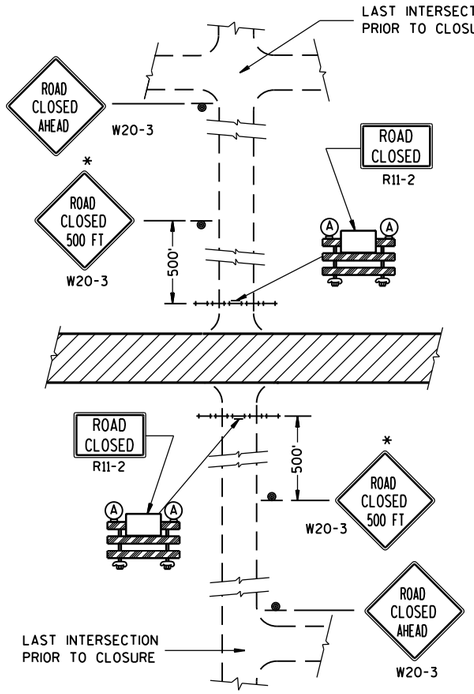
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
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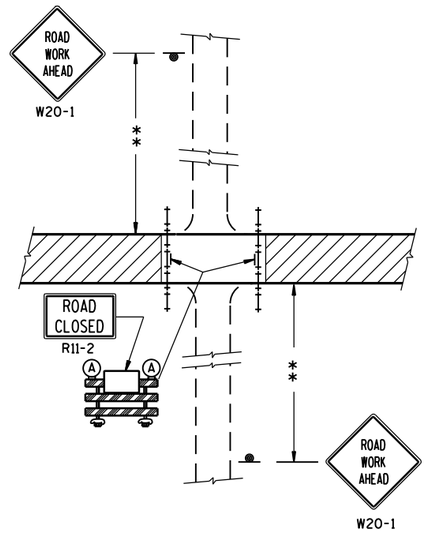
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S.D.D. 15 A 3-2b



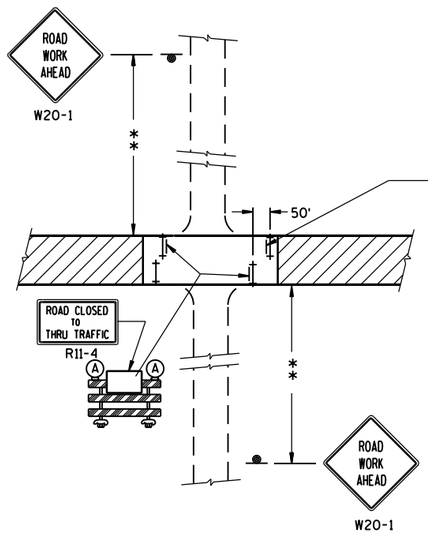
DETAIL 1

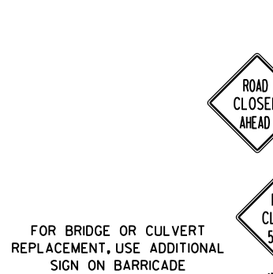
(NO ACCESS TO PROJECT)

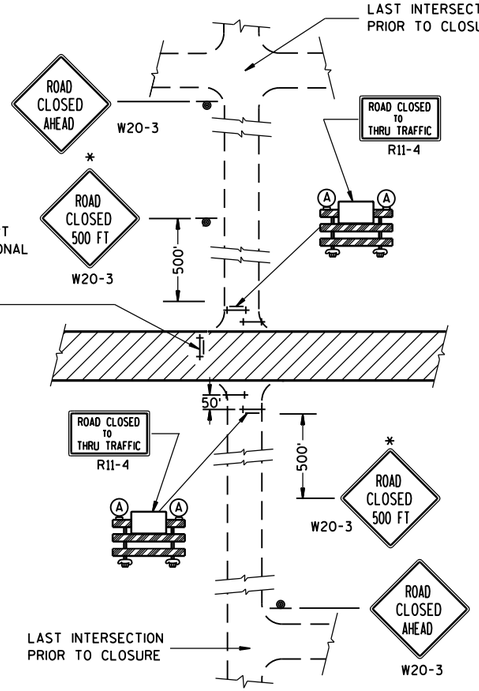


DETAIL 2

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







DETAIL 3

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

DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

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

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

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

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

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

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

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
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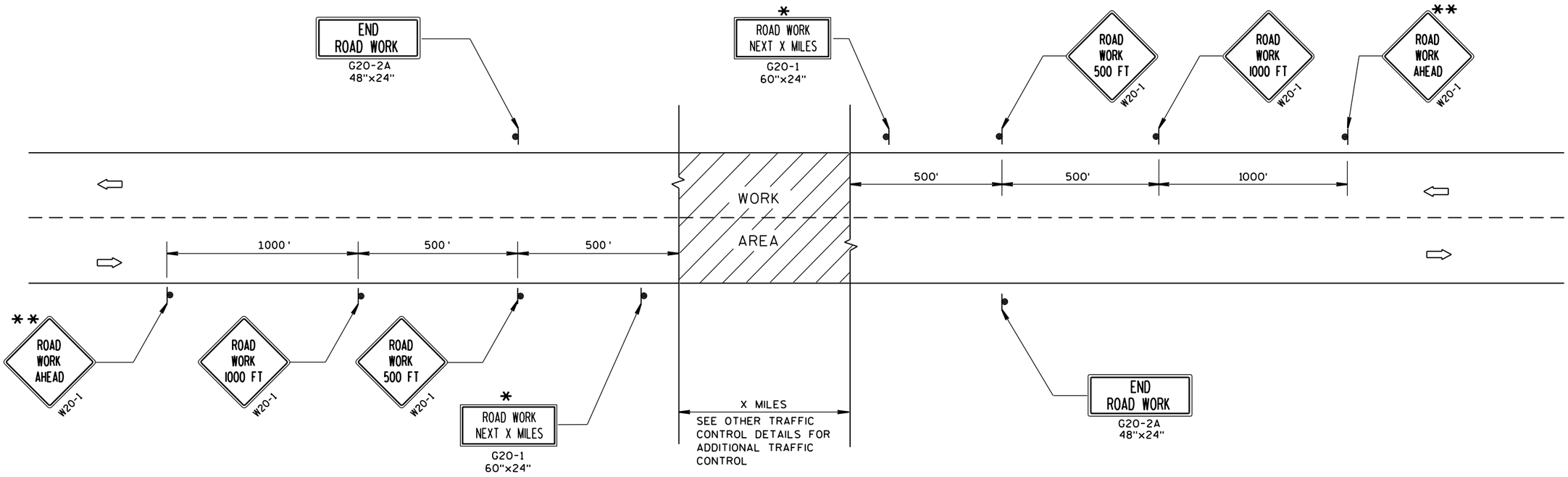
APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 15 C 3-2



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

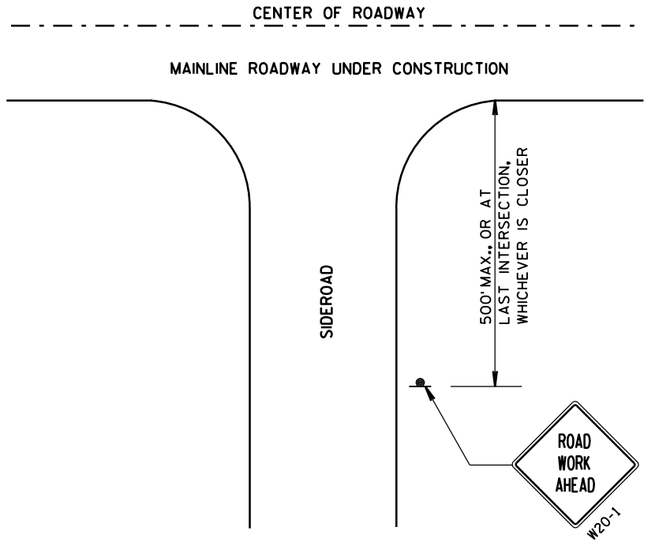
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

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



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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8/2013 — DATE

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S.D.D. 15 C 4-2

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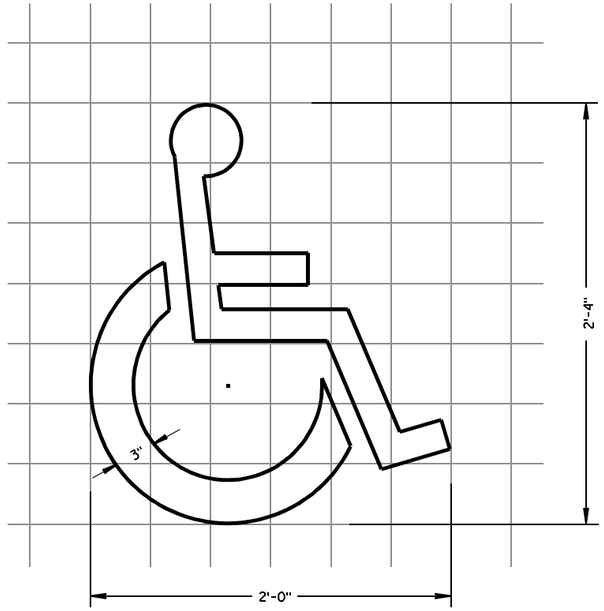
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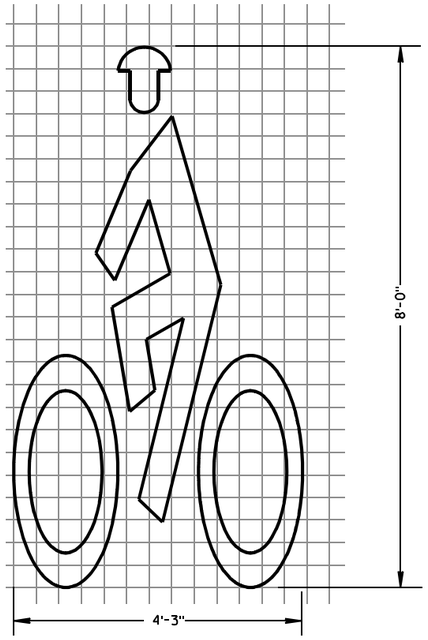
GENERAL NOTES

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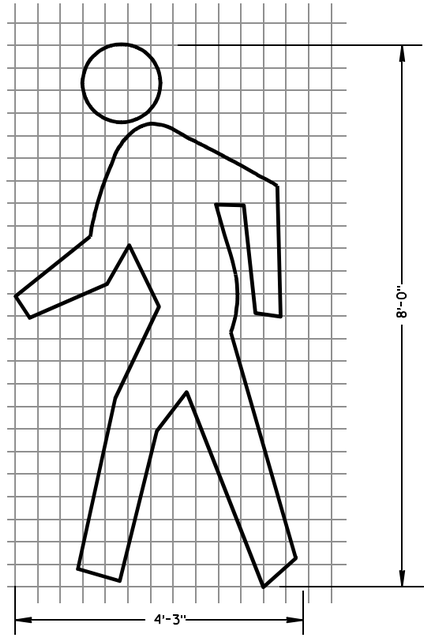
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.

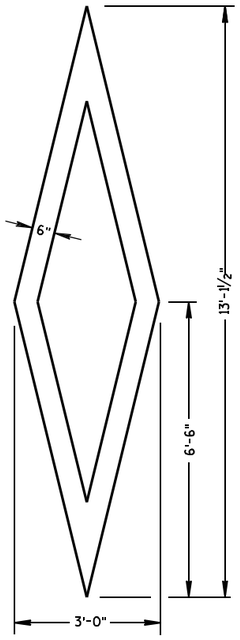




BIKE CROSSING SYMBOL



PEDESTRIAN SYMBOL



PREFERENTIAL LANE SYMBOL

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 DATE

/S/ Thomas N Nathan STATE TRAFFIC ENGINEER

FHWA

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S.D.D. 15 C 7-12a

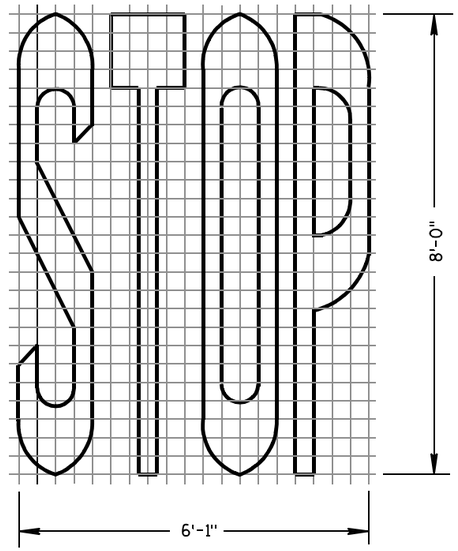
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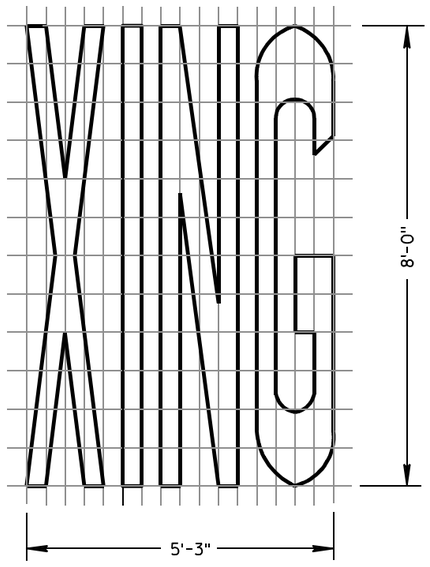
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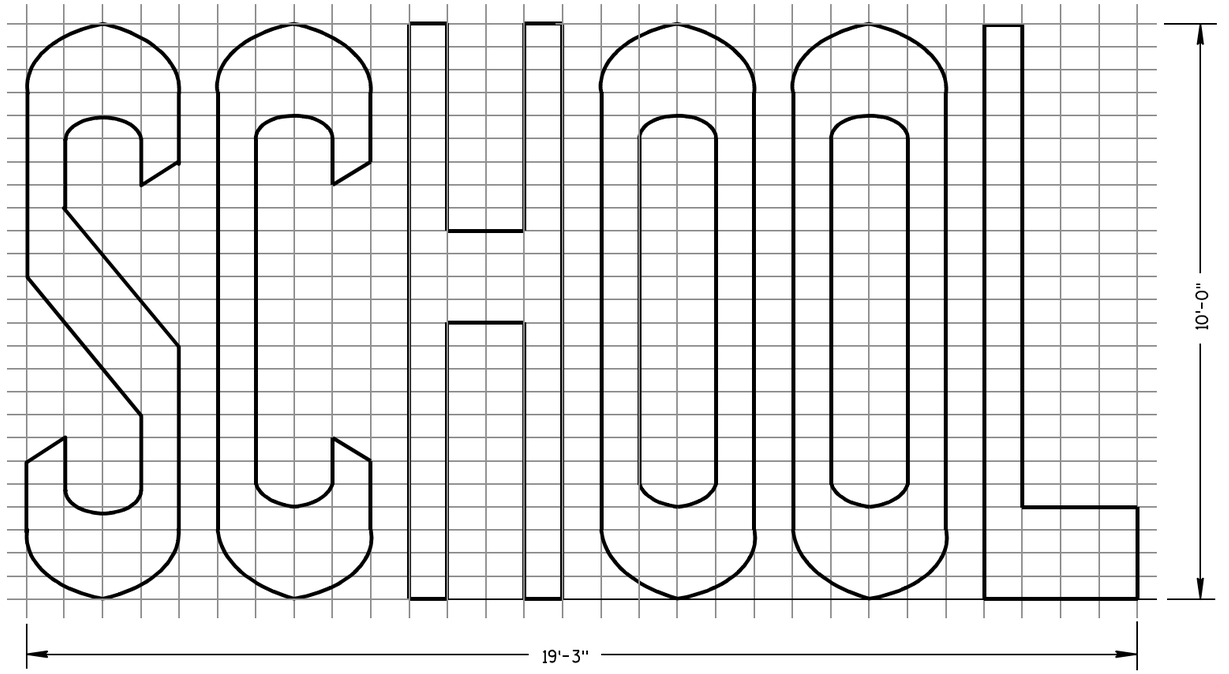
GENERAL NOTES

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

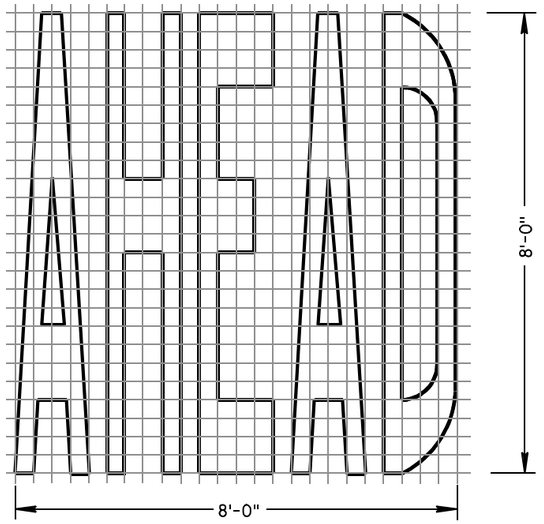
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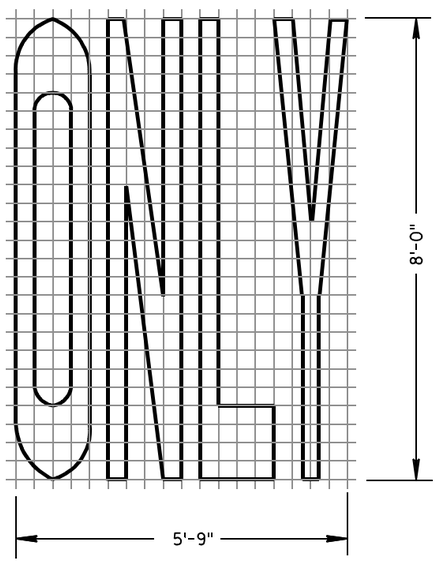


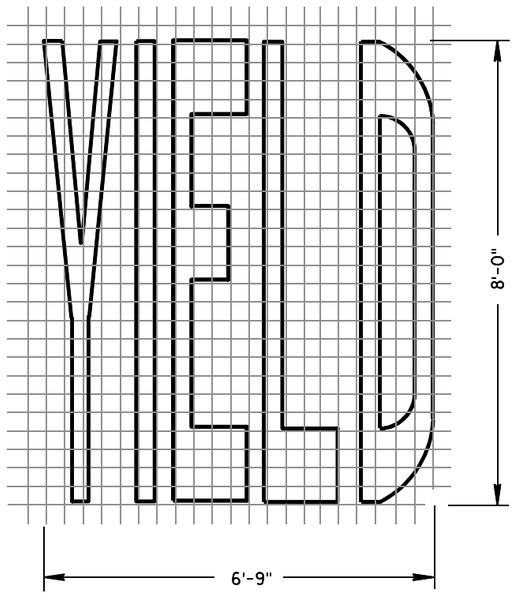


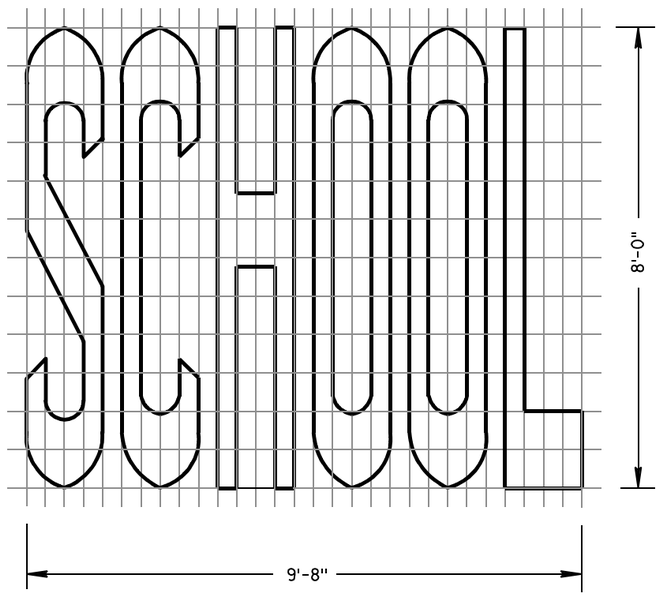


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER

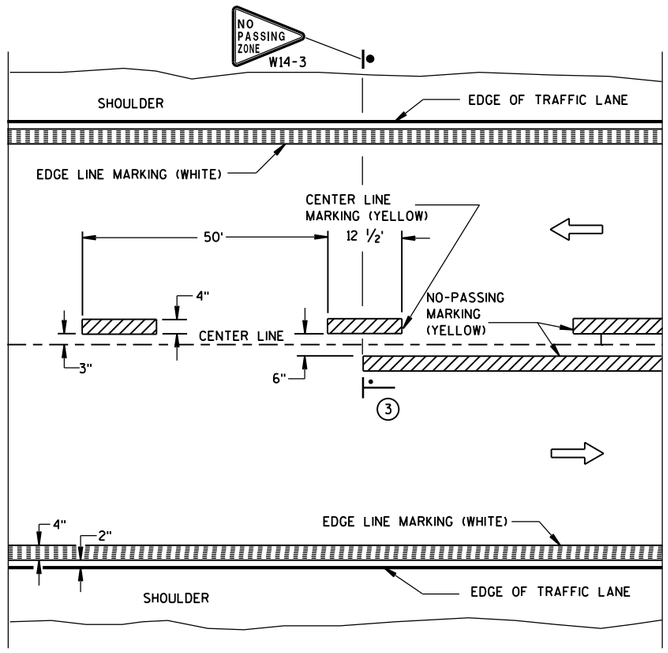
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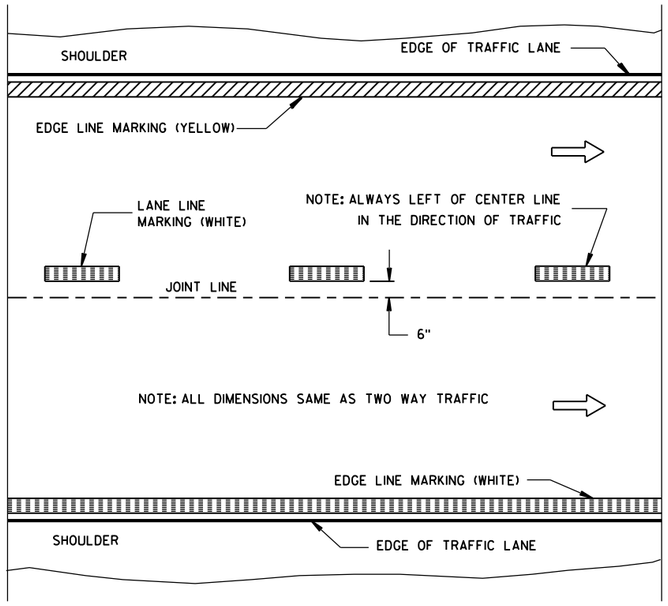
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S.D.D. 15 C 7-12b

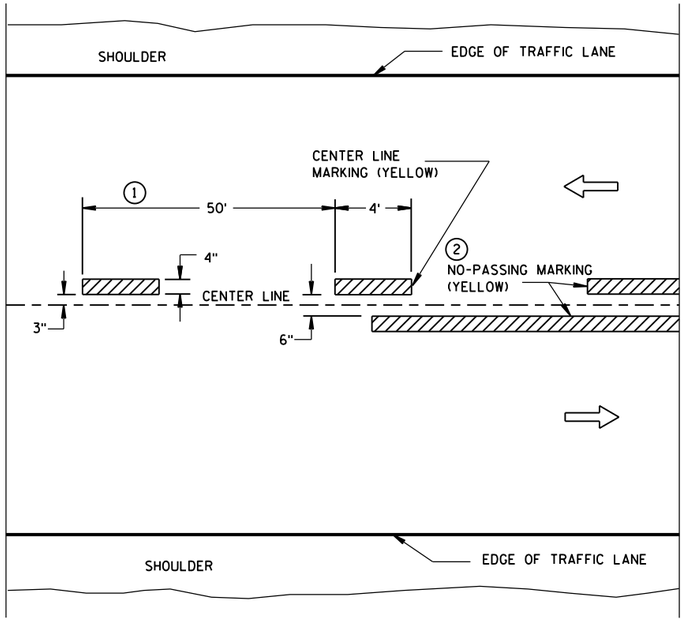


TWO WAY TRAFFIC

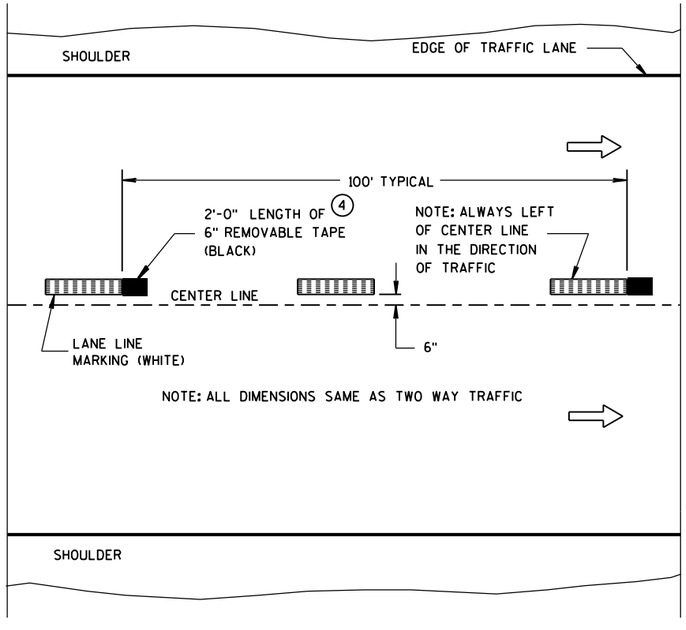


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

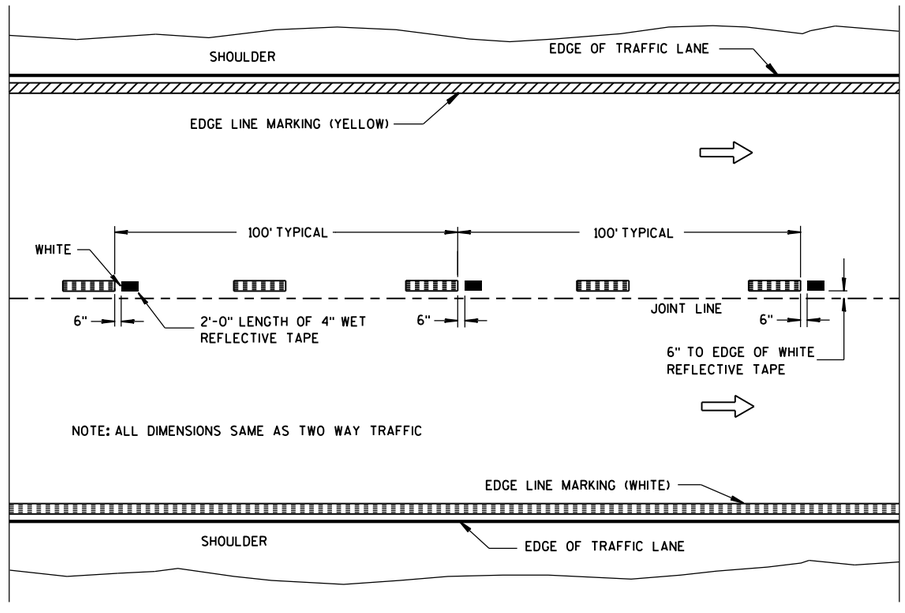
GENERAL NOTES

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

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

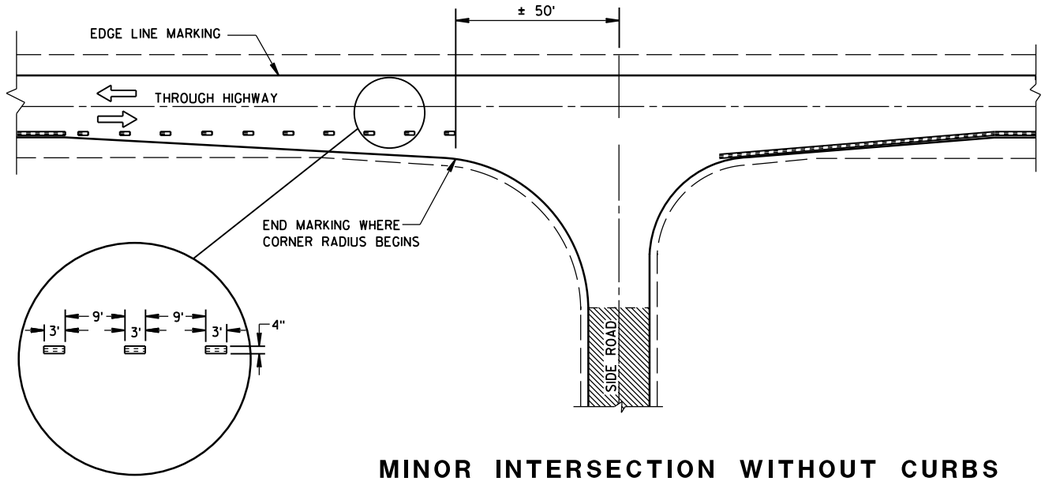
APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E
FHWA

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S.D.D. 15 C 8-16a

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S.D.D. 15 C 8-16a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

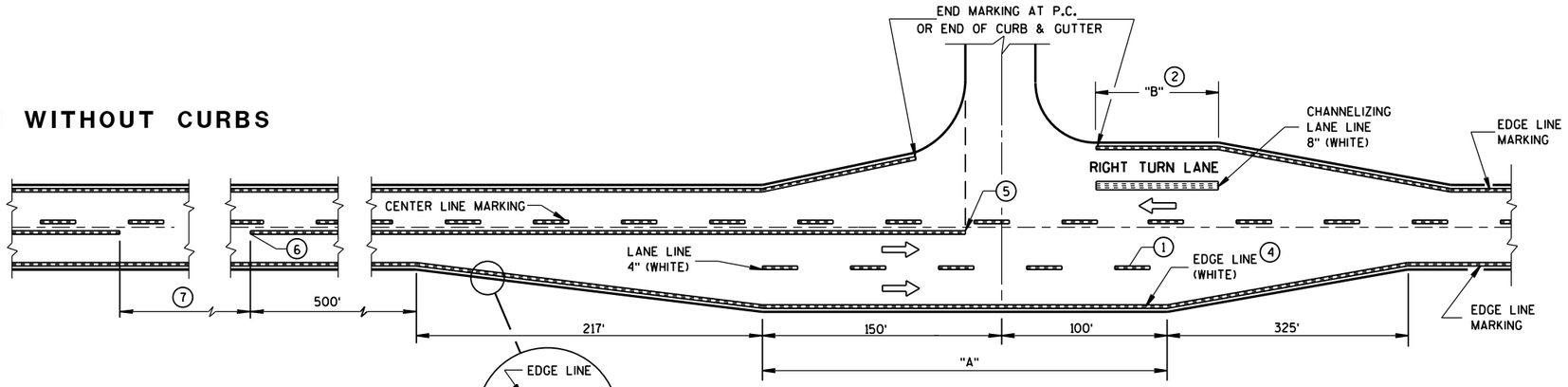
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

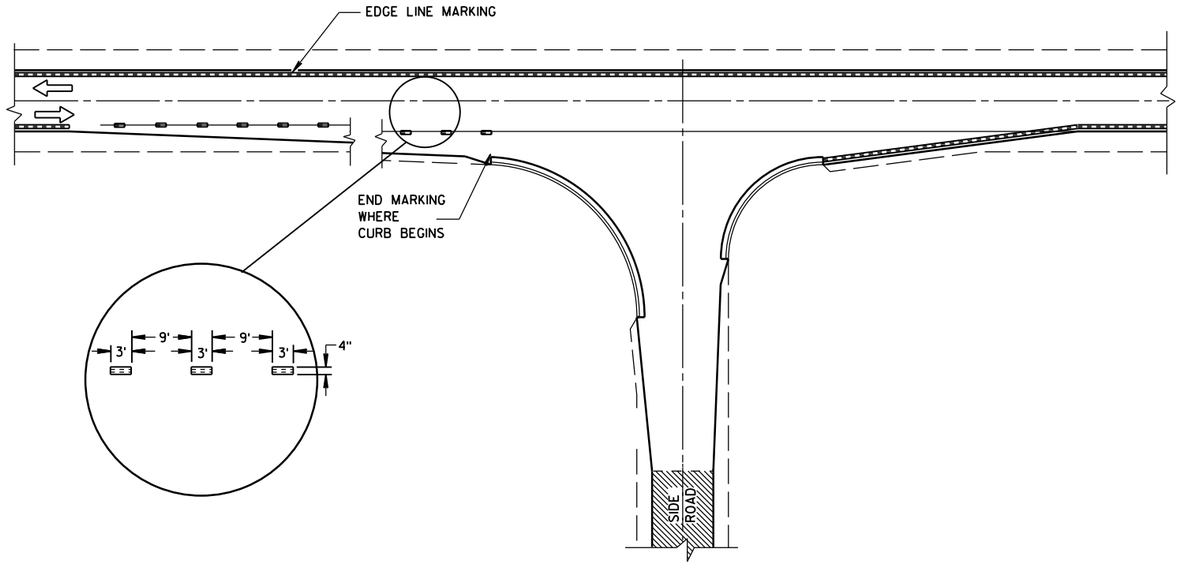
(7)

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



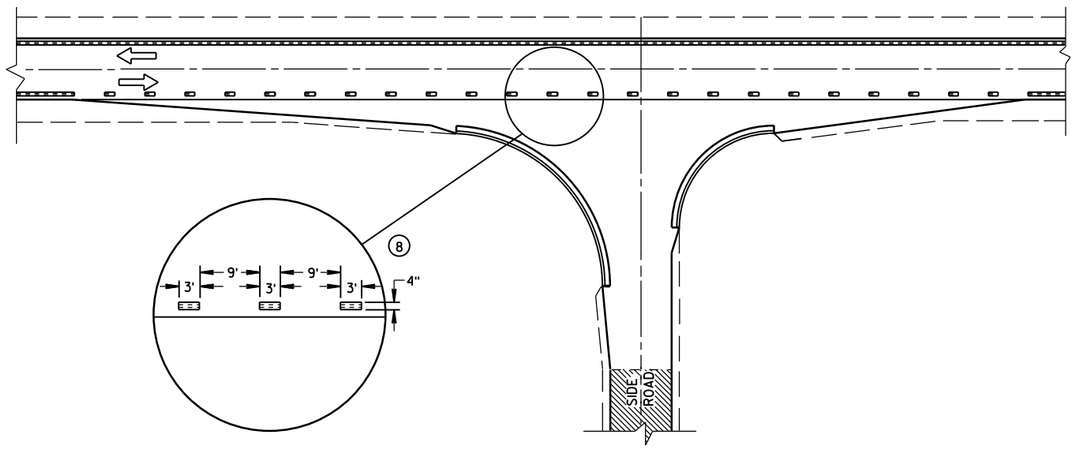
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

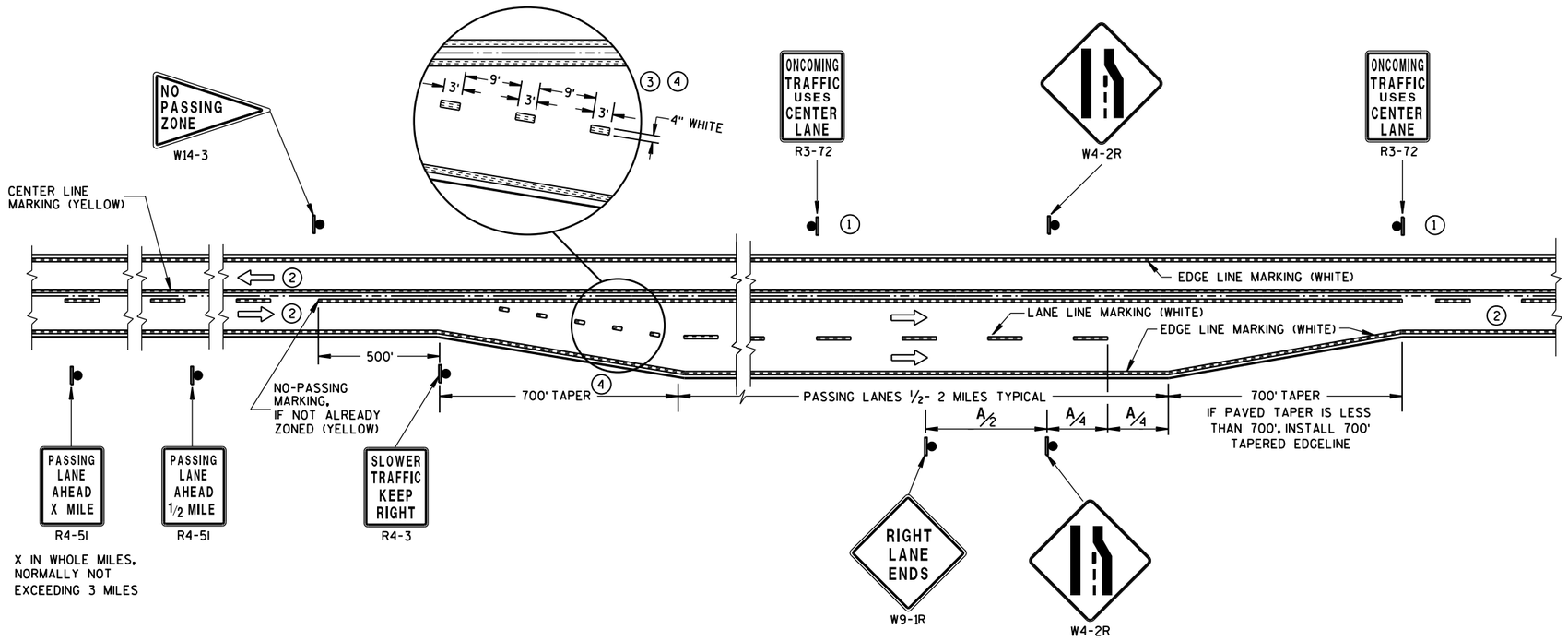
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

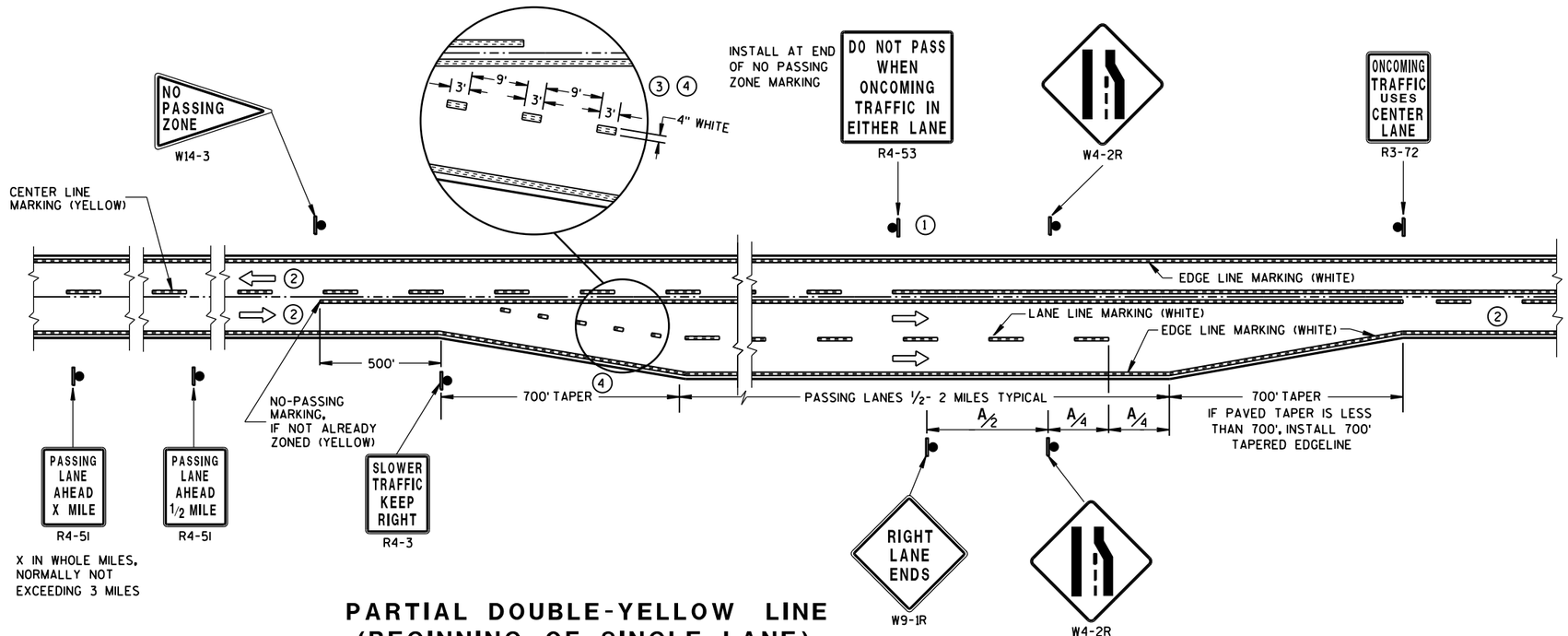
S.D.D. 15 C 8-16b

6

S.D.D. 15 C 8-16b



SOLID DOUBLE-YELLOW LINE
(THROUGHOUT ENTIRE PASSING/CLIMBING LANE)



PARTIAL DOUBLE-YELLOW LINE
(BEGINNING OF SINGLE LANE)

GENERAL NOTES

1. SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3'LINE 9'GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

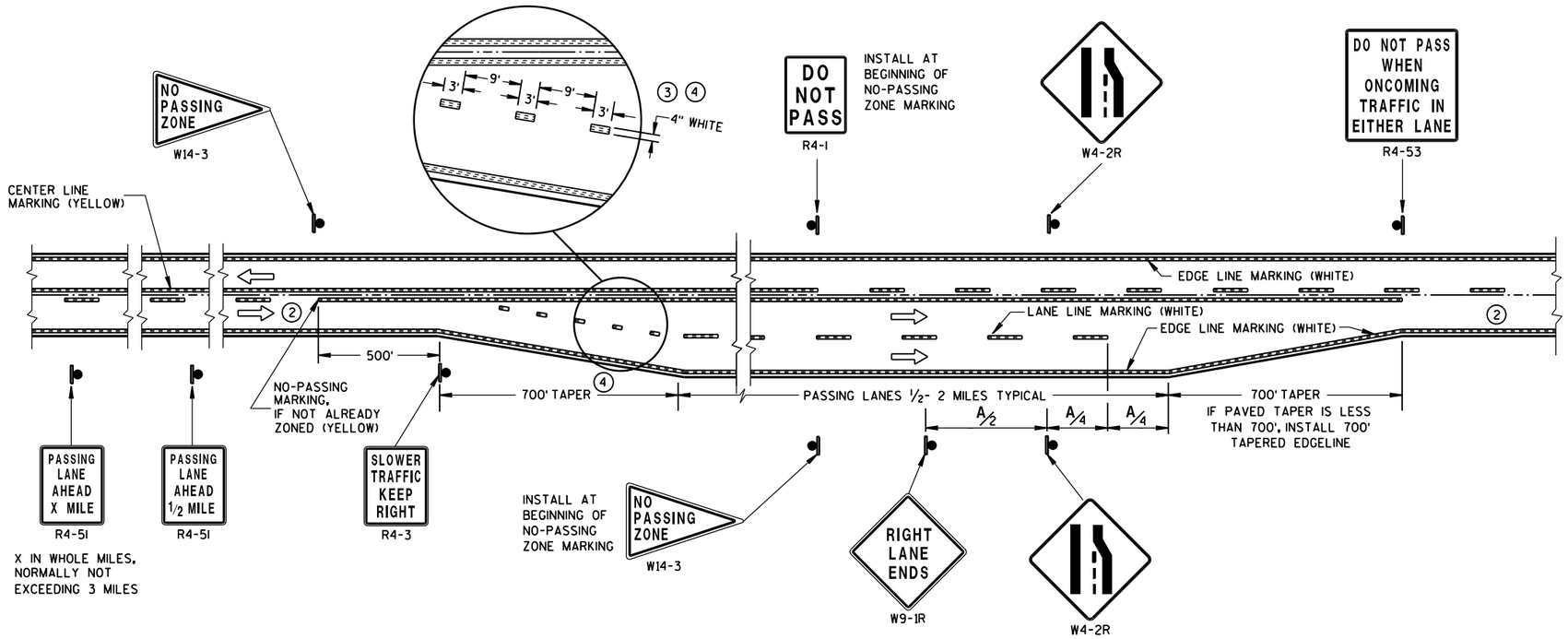
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

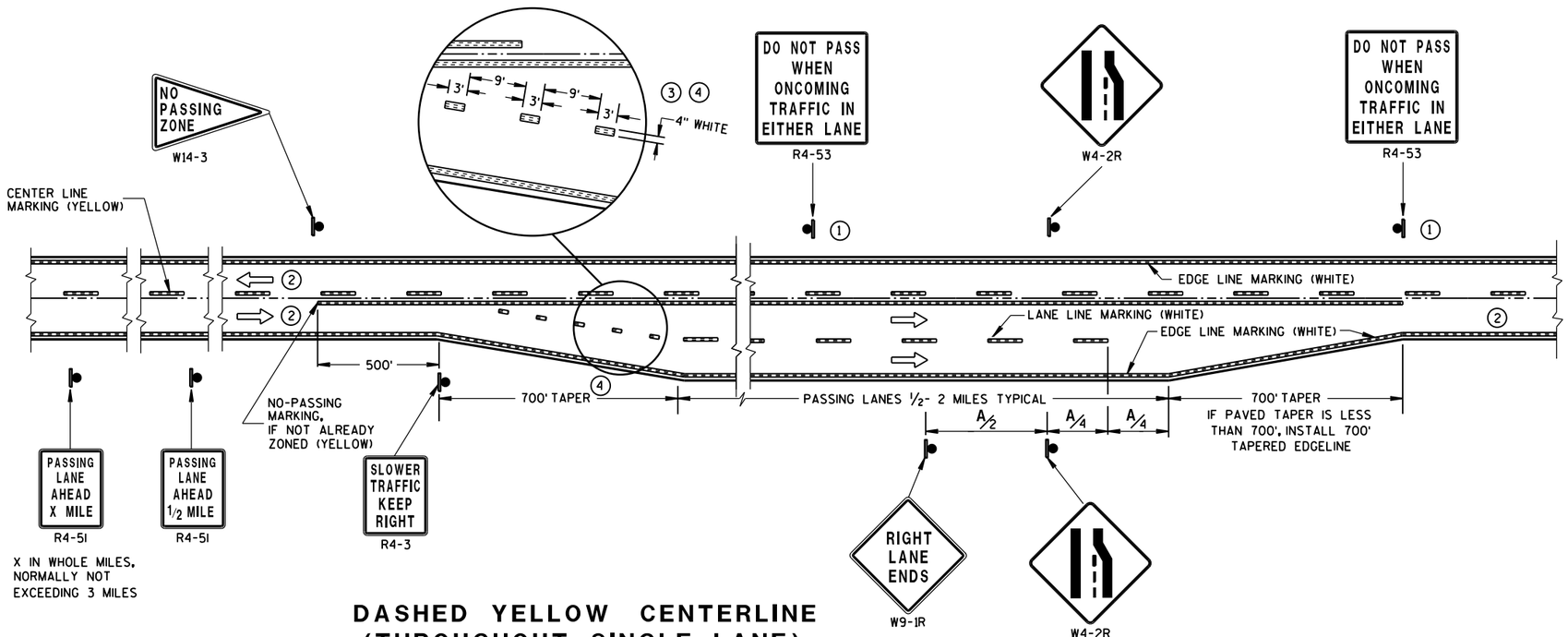
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 C 8-16c
S.D.D. 15 C 8-16c



SOLID DOUBLE-YELLOW LINE (END OF SINGLE LANE)



DASHED YELLOW CENTERLINE (THROUGHOUT SINGLE LANE)

GENERAL NOTES

1. SIGN SHALL BE REPEATED AT 1/2 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3'LINE 9'GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

S.D.D. 15 C 8-16d

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

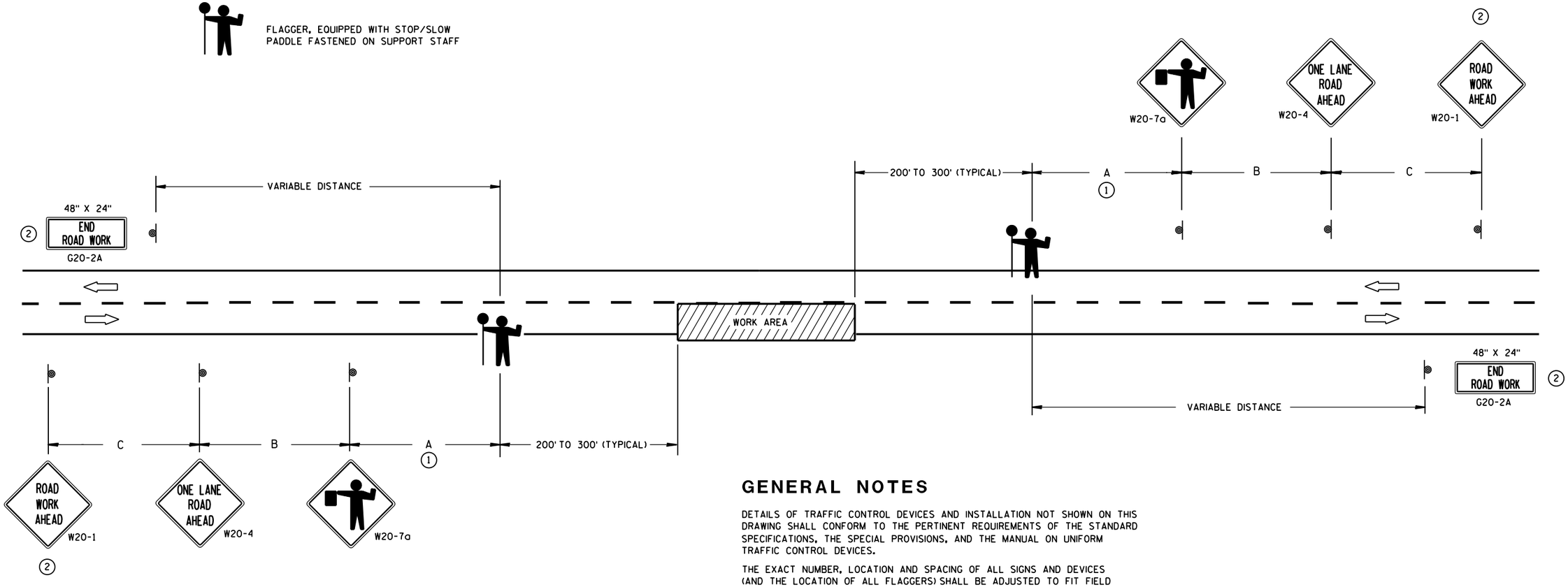
SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

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

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

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

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

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

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

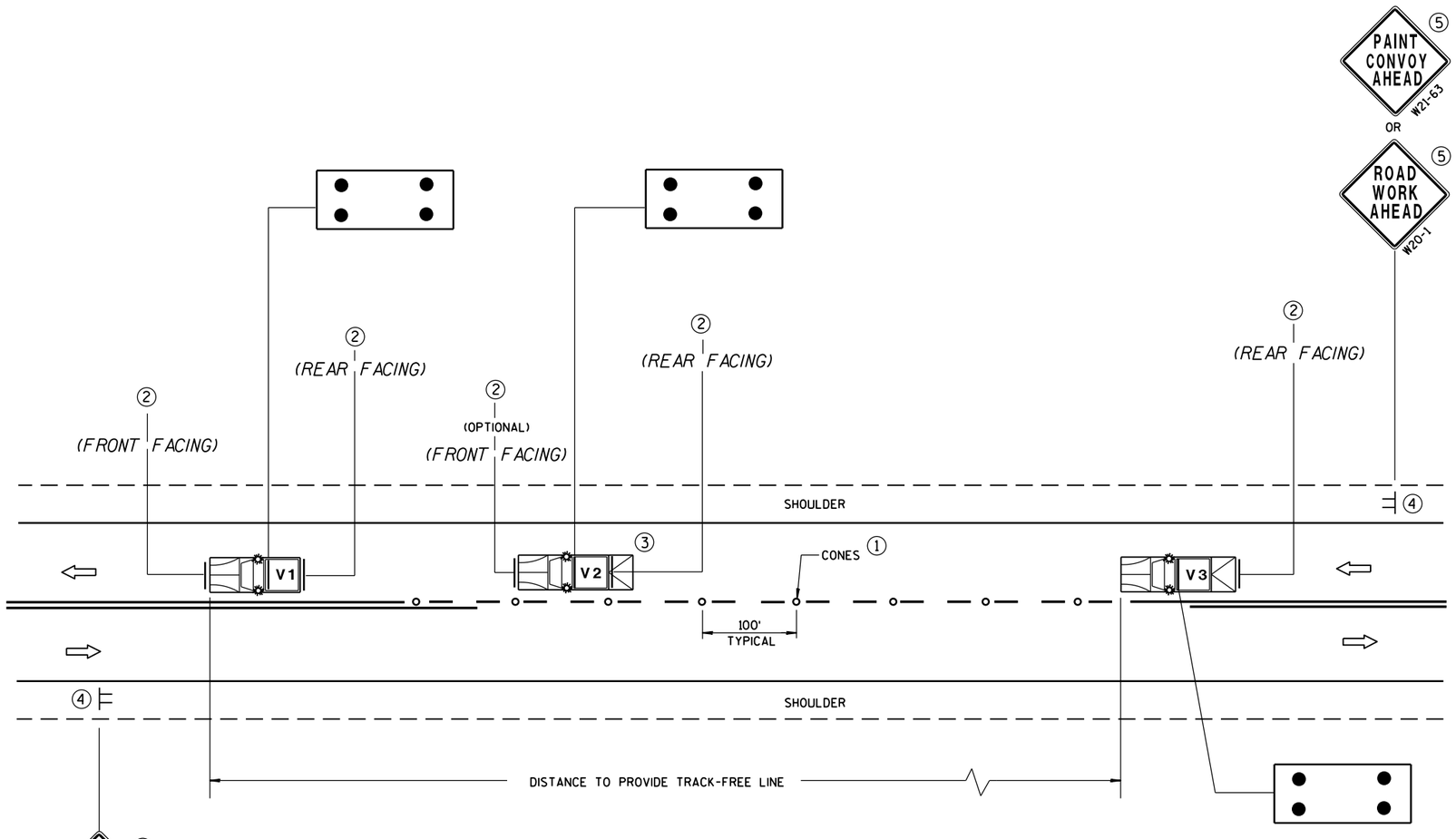
APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 12-4

6

S.D.D. 15 C 12-4



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.

WET PAINT W21-64 OR WET PAINT W21-64

(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.

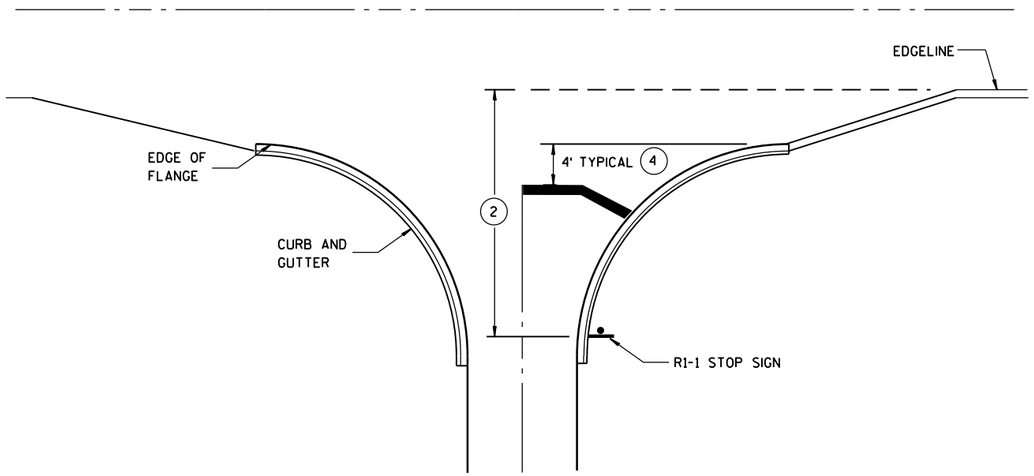
LEGEND

- **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)

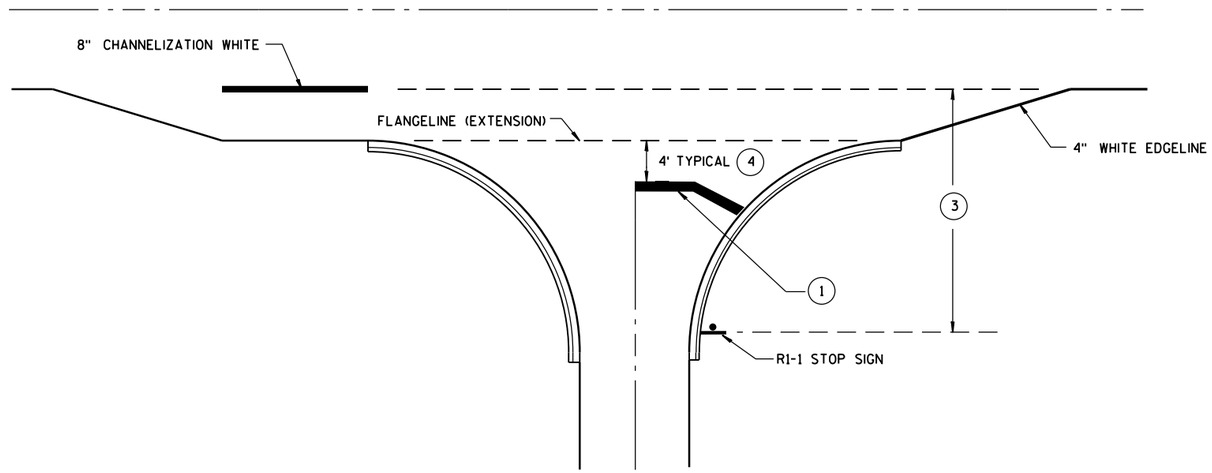
MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/3/2013 DATE	/S/ Travis Feltes STATE TRAFFIC E
FHWA	

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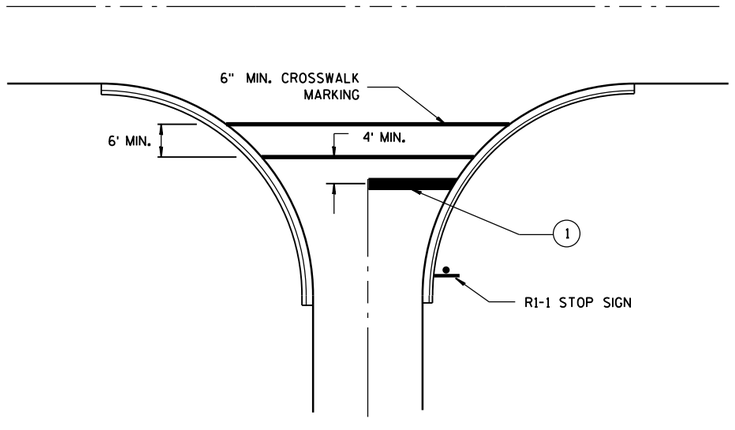
S.D.D. 15 C 19-2a



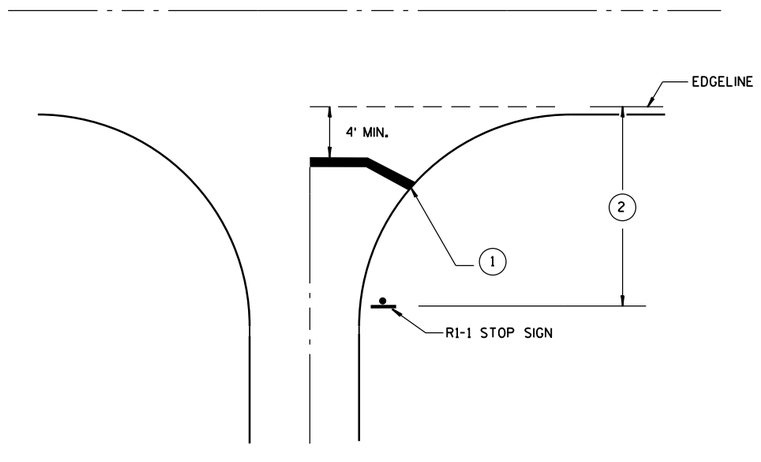
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

6

S.D.D. 15 C 33-1

GENERAL NOTES

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

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

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

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

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

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

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

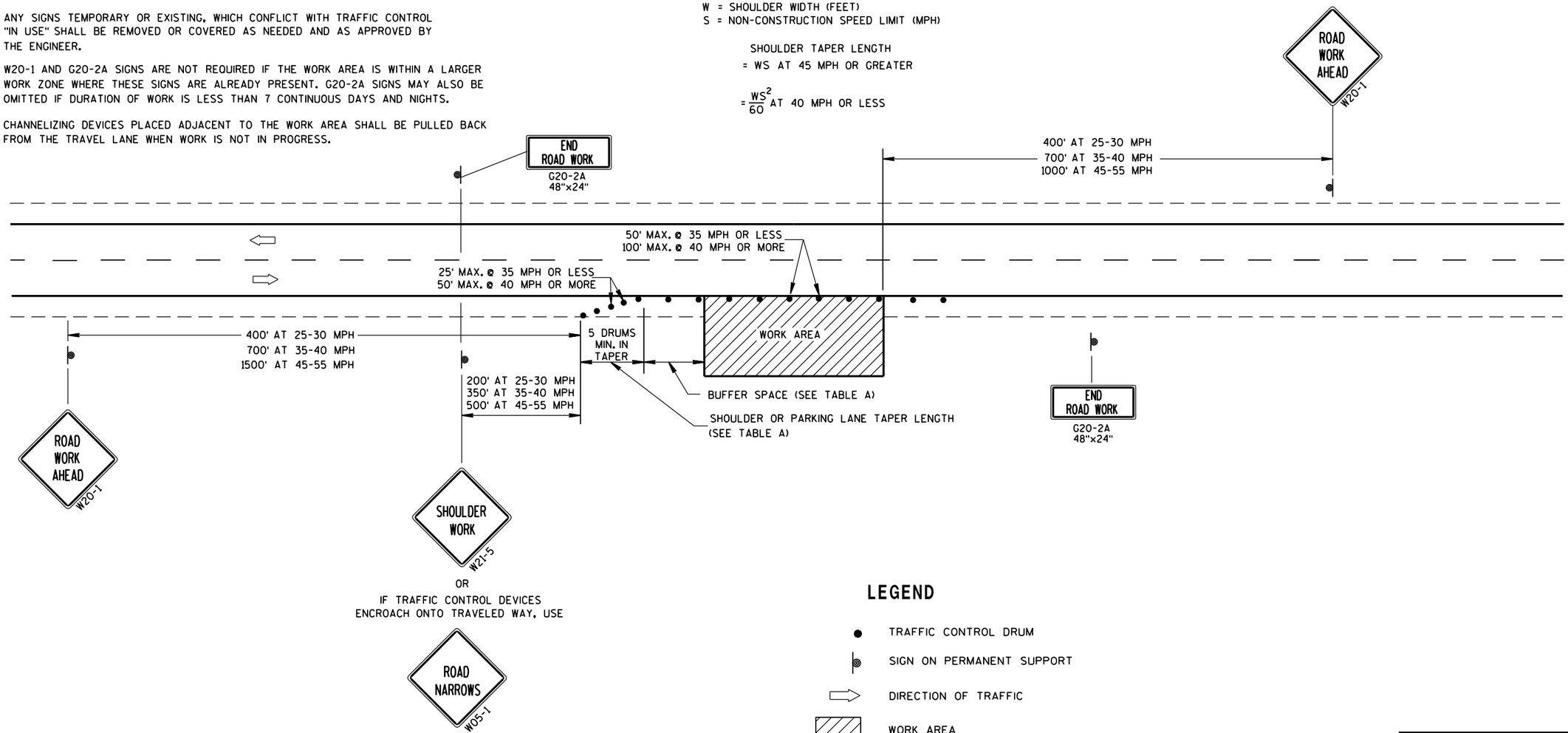
TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

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

SHOULDER TAPER LENGTH
= WS AT 45 MPH OR GREATER

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



LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

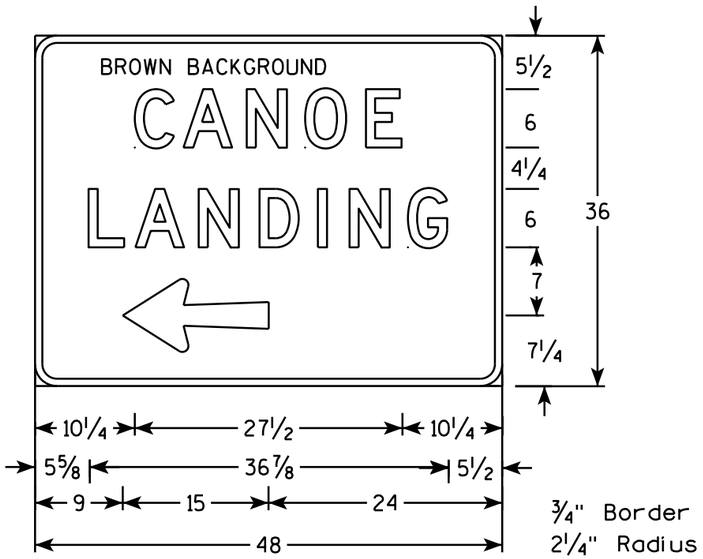
FHWA

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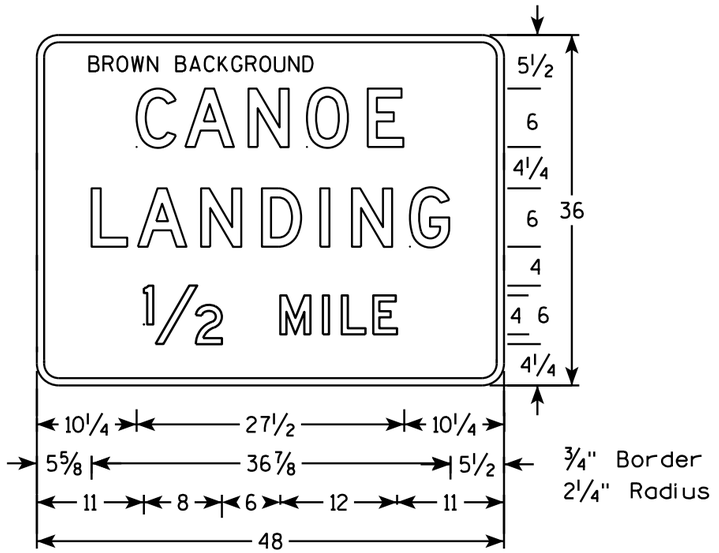
S.D.D. 15 D 28-2

NOTES

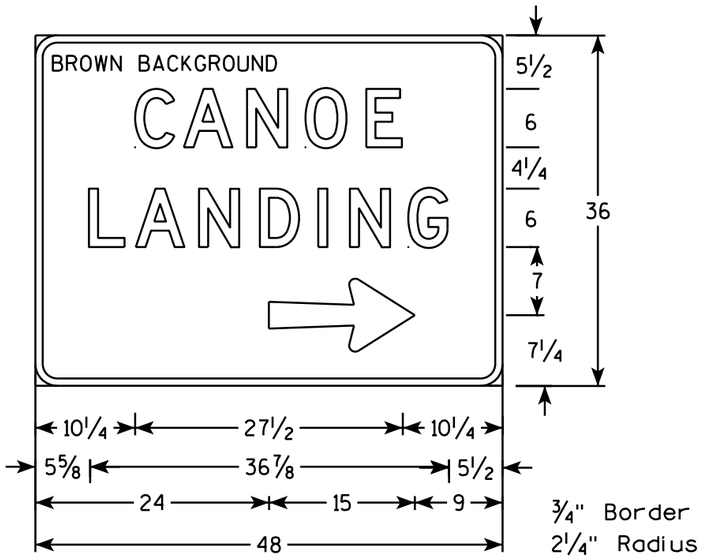
1. All Signs Type II - Type H Reflective
2. Color:
   Background - GREEN except as Shown
   Message - WHITE
3. Message Series - D except as shown



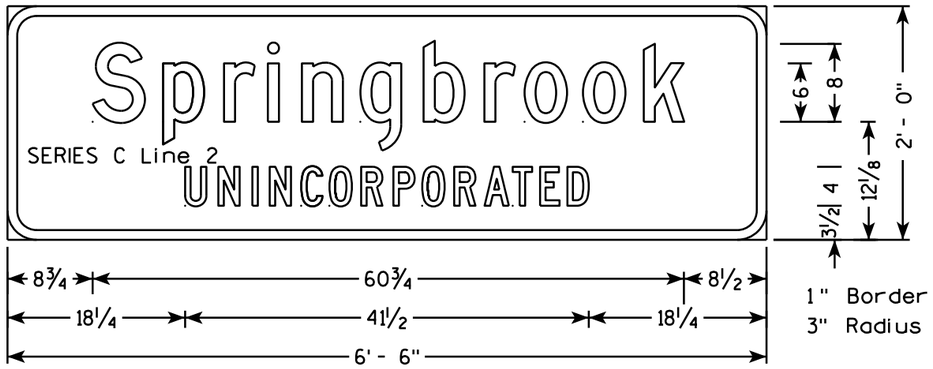
D7-56L (MOD)



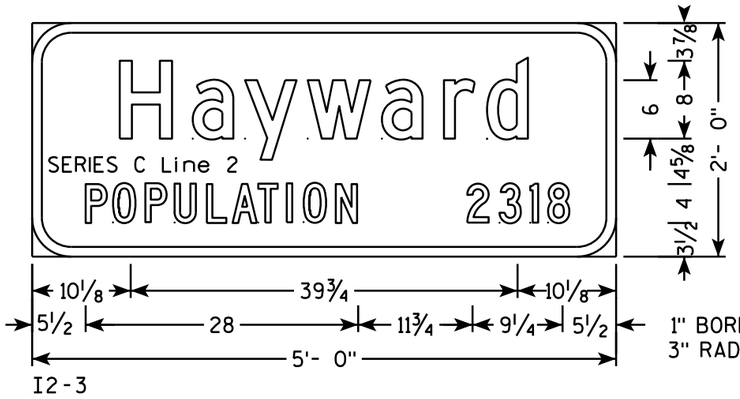
D7-54 (MOD)



D7-56R (MOD)



I2-3



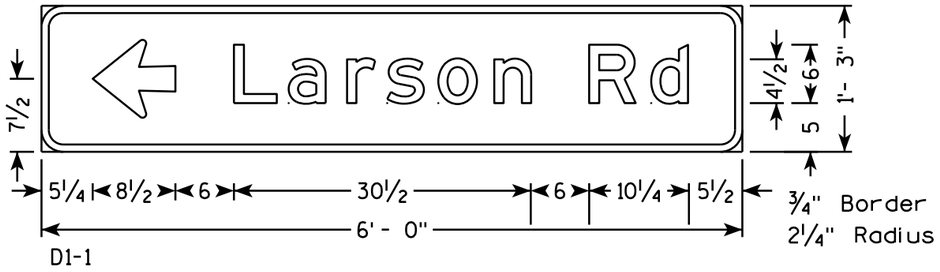
I2-3

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN-SAWYER	PERMANENT SIGNING	SHEET NO:	E

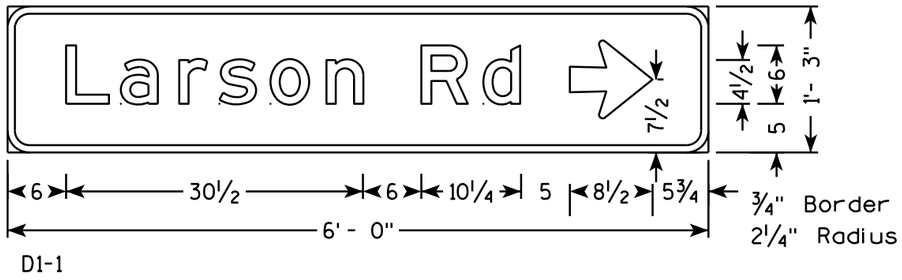
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WISDOT/CADDS SHEET 42

NOTES

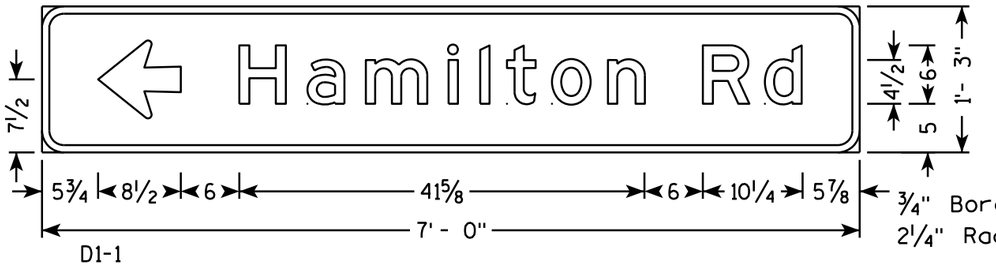
1. All Signs Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E



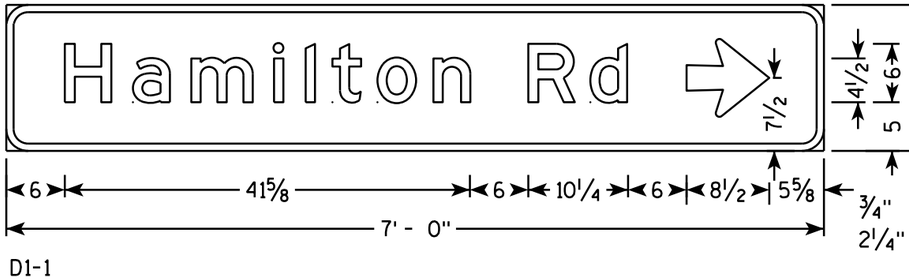
D1-1



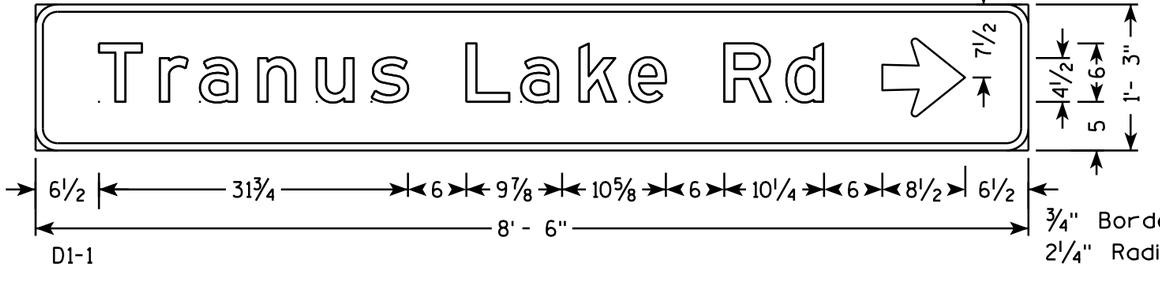
D1-1



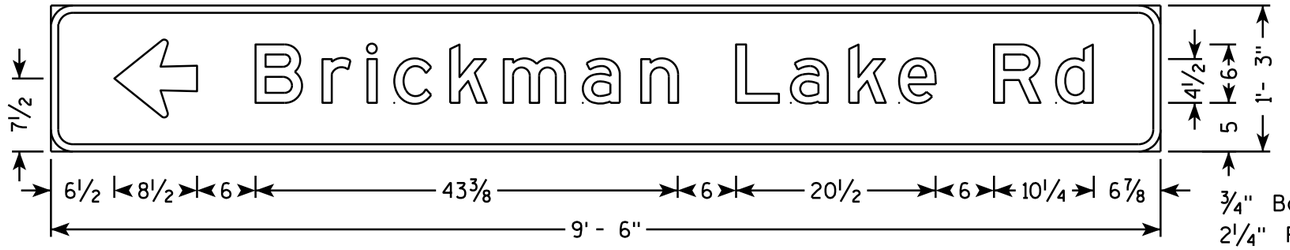
D1-1



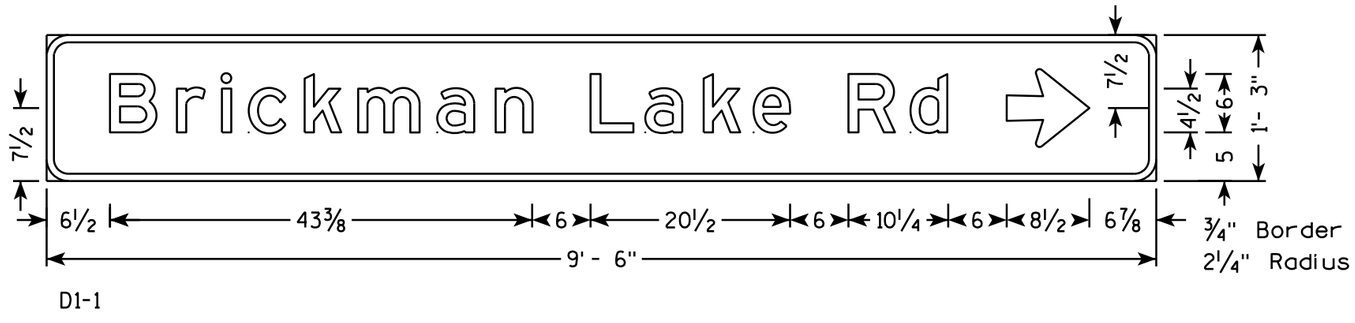
D1-1



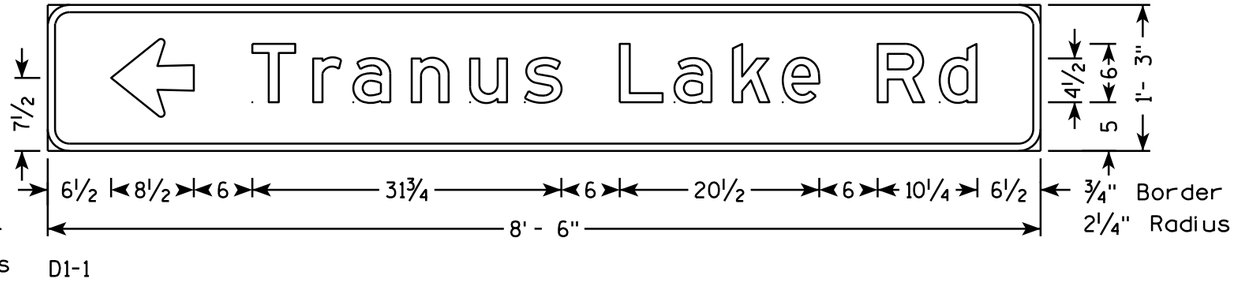
D1-1



D1-1



D1-1



D1-1

7

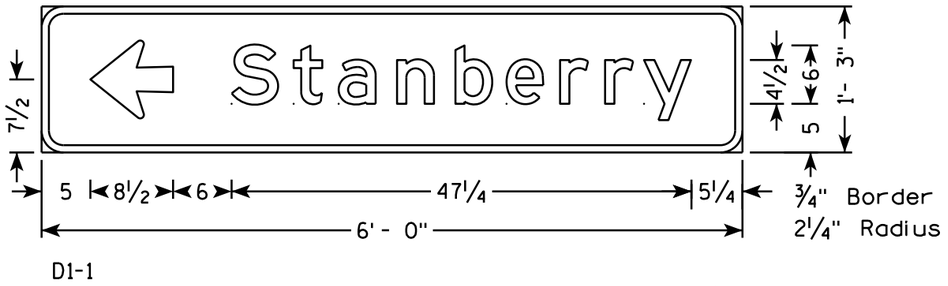
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN-SAWYER	PERMANENT SIGNING	SHEET NO:	E

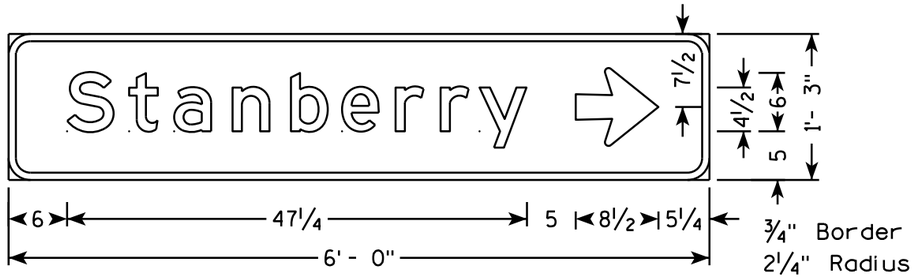
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WISDOT/CADDS SHEET 42

NOTES

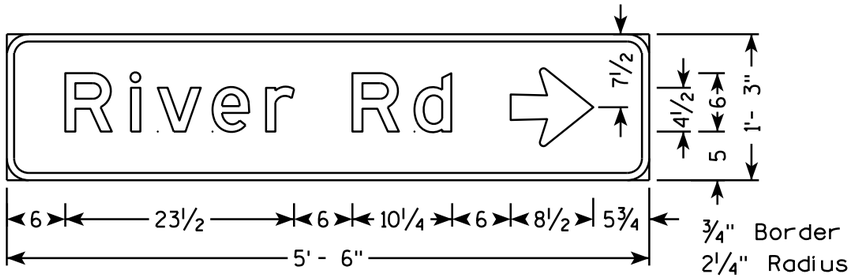
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2. Color:
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   Message - WHITE
3. Message Series - E



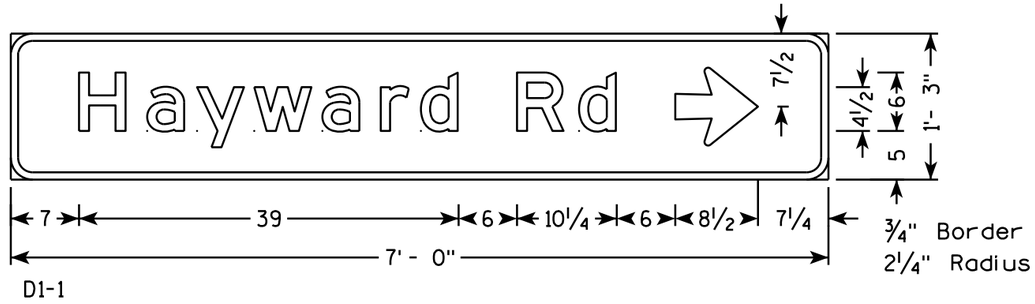
D1-1



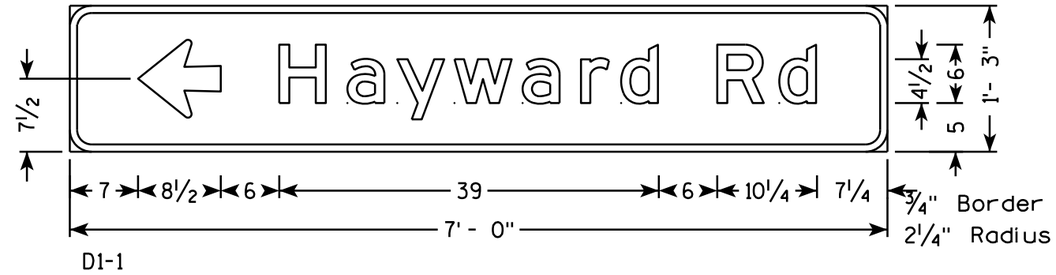
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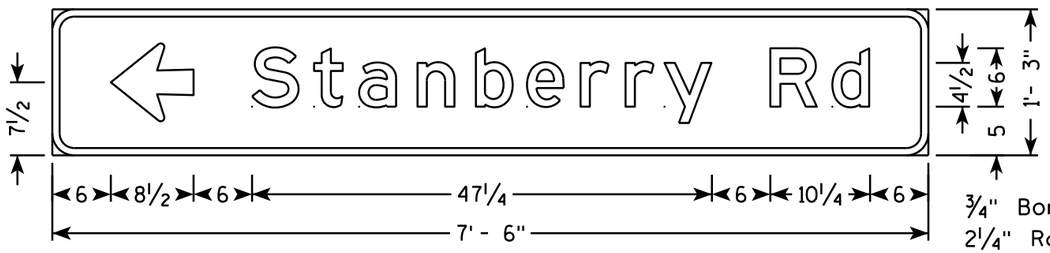
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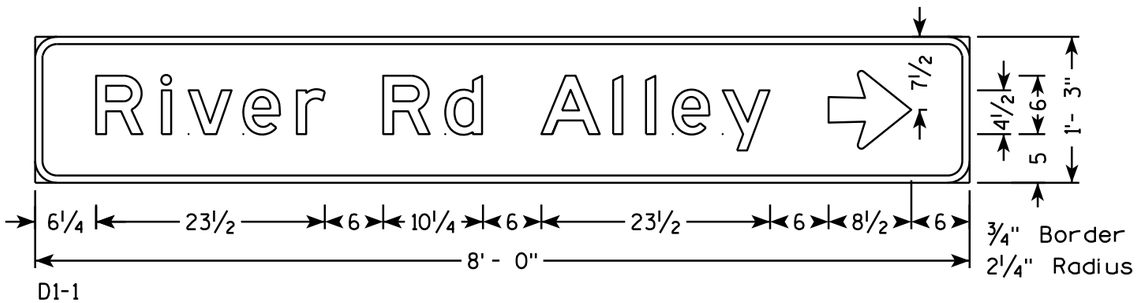
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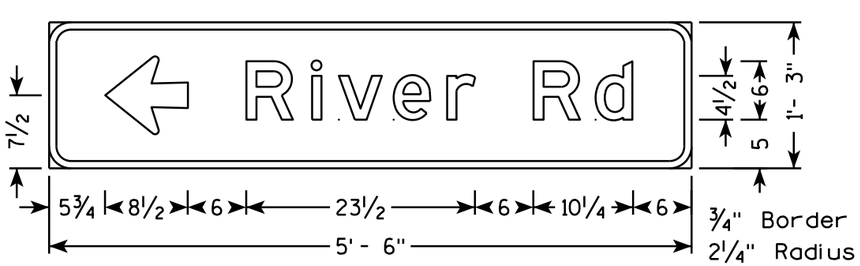
D1-1



D1-1



D1-1



D1-1



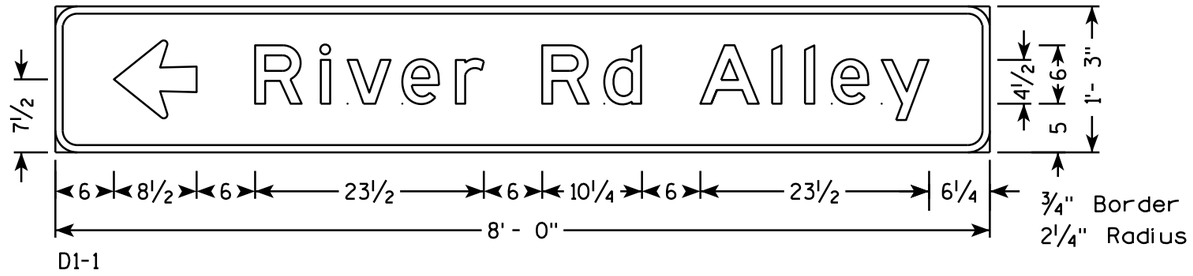
D1-1

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN-SAWYER	PERMANENT SIGNING	SHEET NO:	E

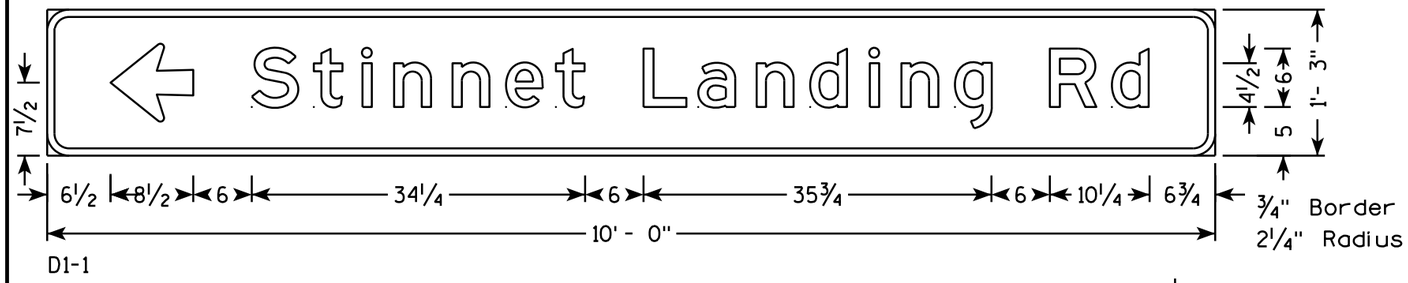
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NOTES

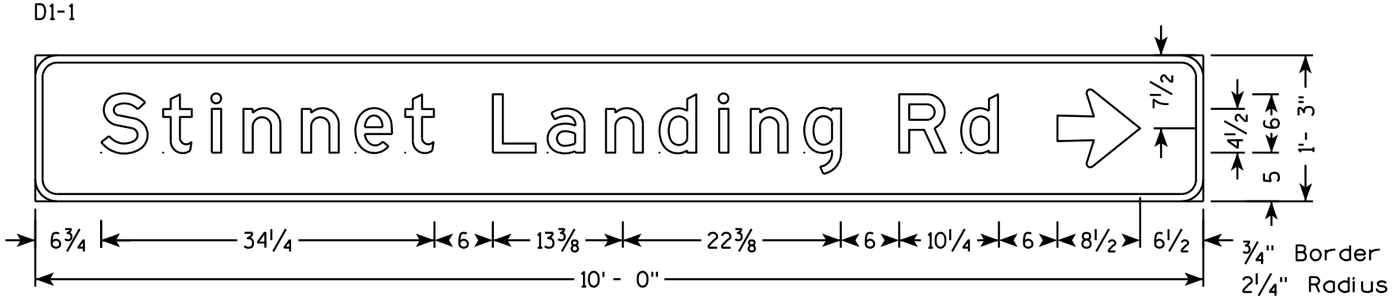
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2. Color:
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   Message - WHITE
3. Message Series - E



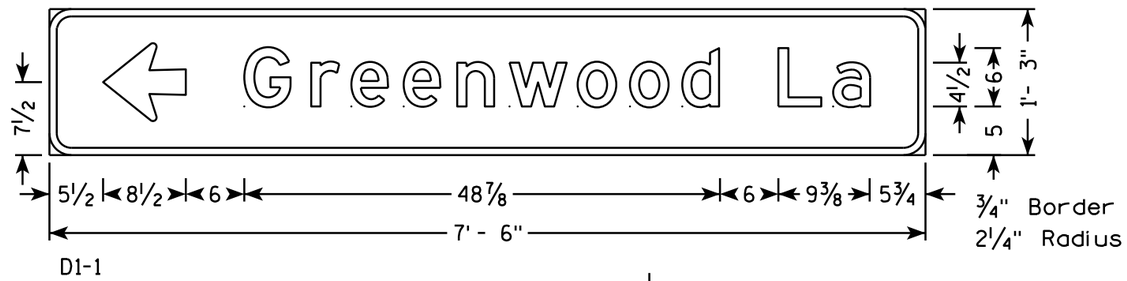
D1-1



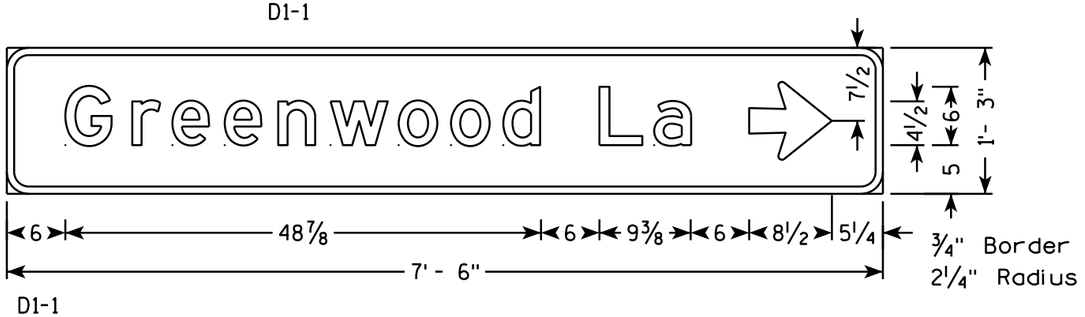
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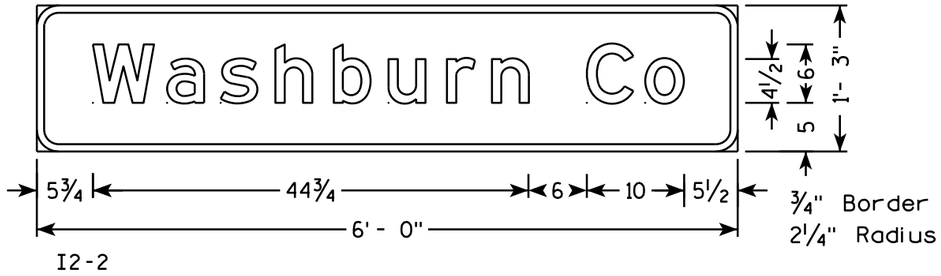
D1-1



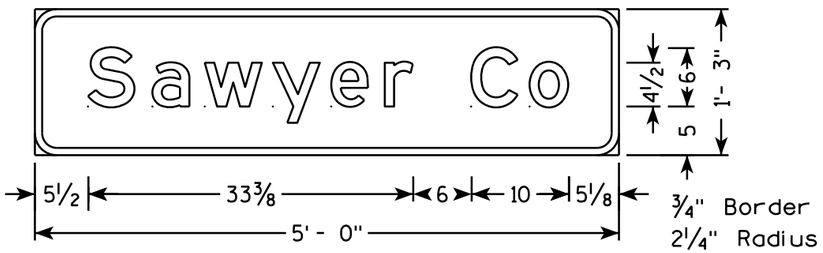
D1-1



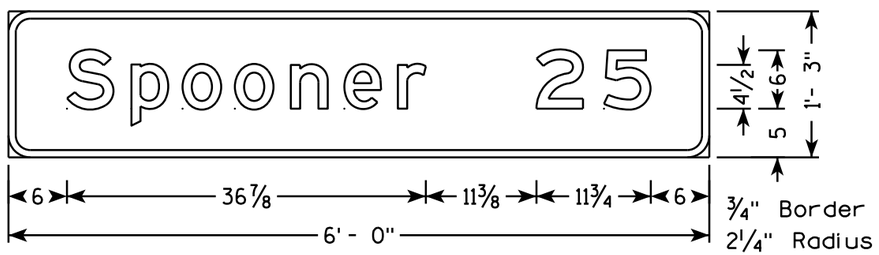
D1-1



I2-2



I2-2



D2-1

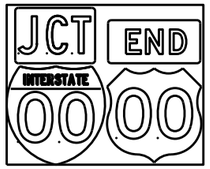
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN-SAWYER	PERMANENT SIGNING	SHEET NO: E

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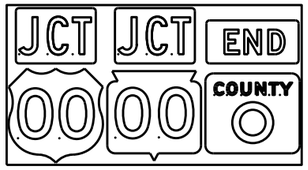
TYPICAL ASSEMBLIES



J1-1



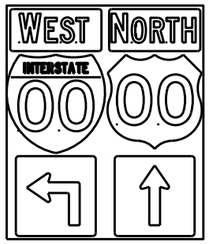
J1-2



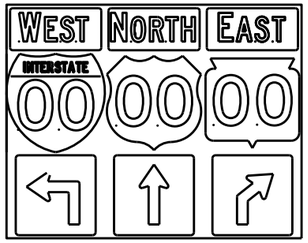
J1-3



J2-1



J2-2

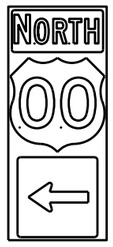


J2-3

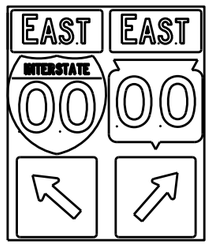


JV

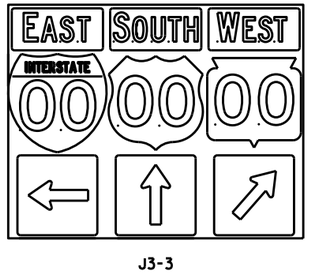
(Typical Vertical J-Assembly
See Note 10 and 11)



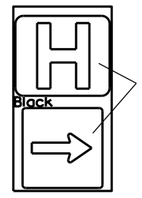
J3-1



J3-2



J3-3

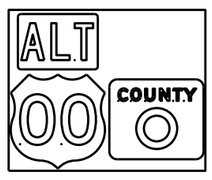


Blue Background

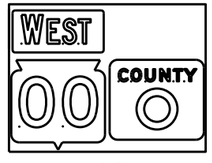
JH-1



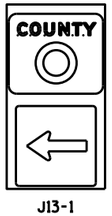
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

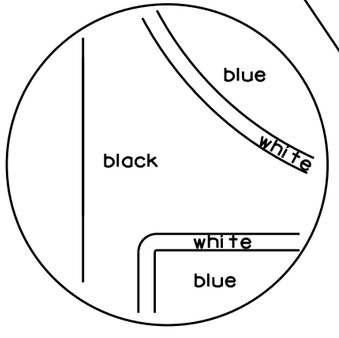


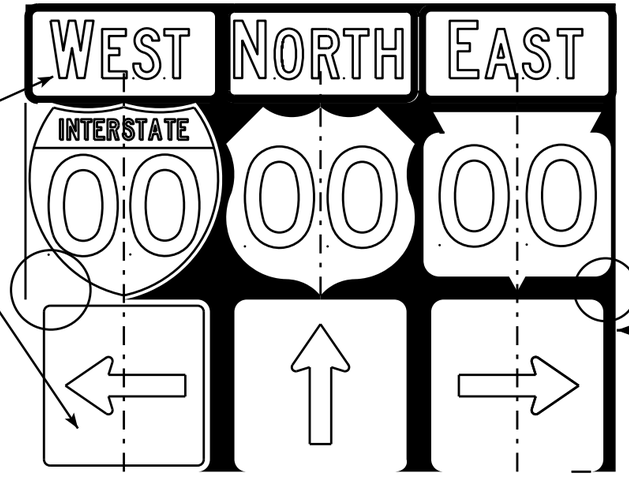
J23-1

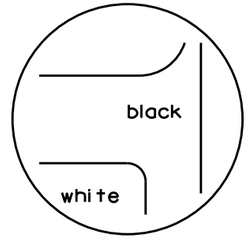


J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

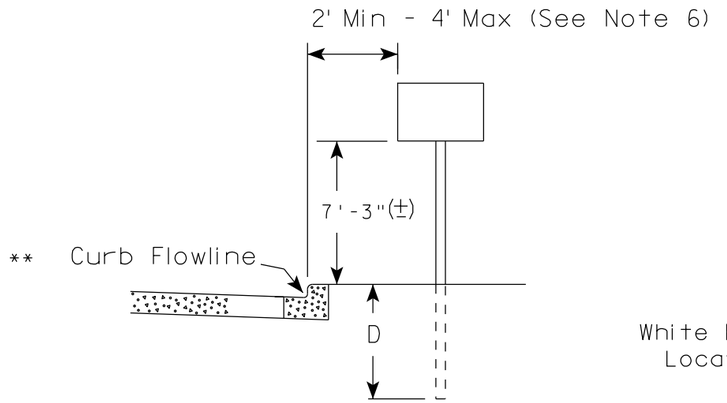
APPROVED Matthew R Rauch
for State Traffic Engineer

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

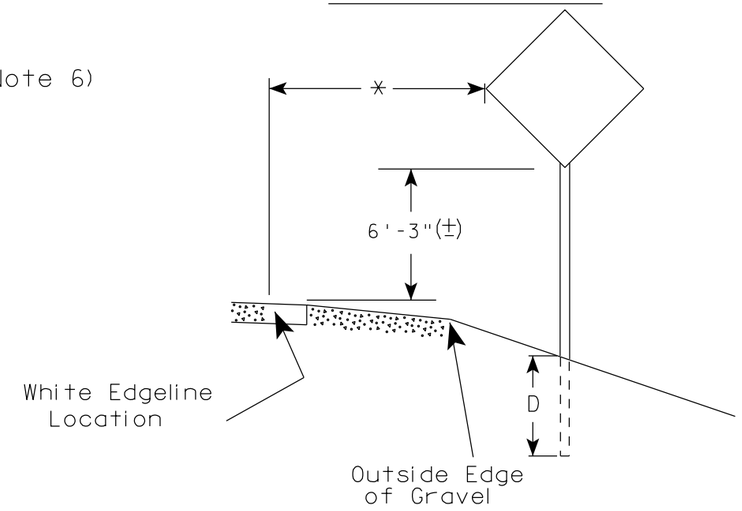
PROJECT NO: | SHEET NO: E

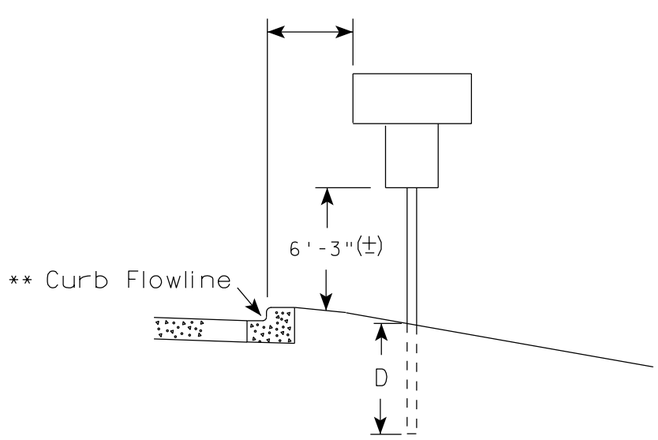
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WISDOT/CADDS SHEET 42

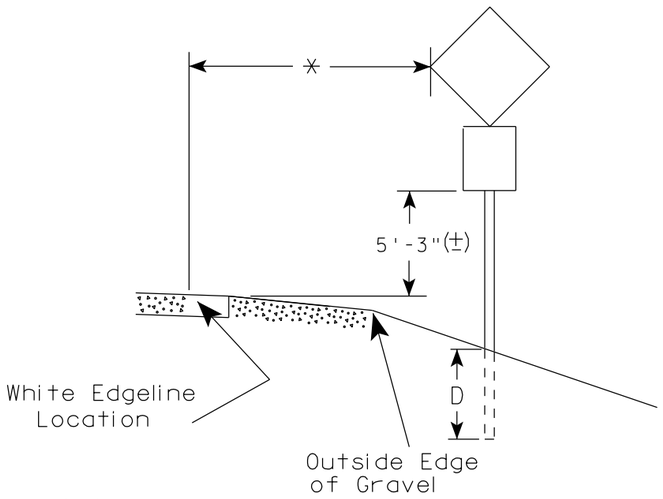
URBAN AREA



RURAL AREA (See Note 2)







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

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

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, 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

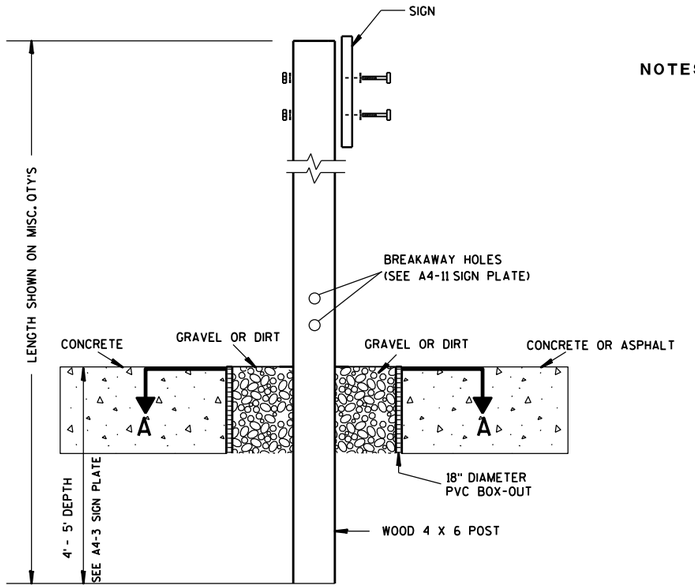
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/14 PLATE NO. A4-3.19

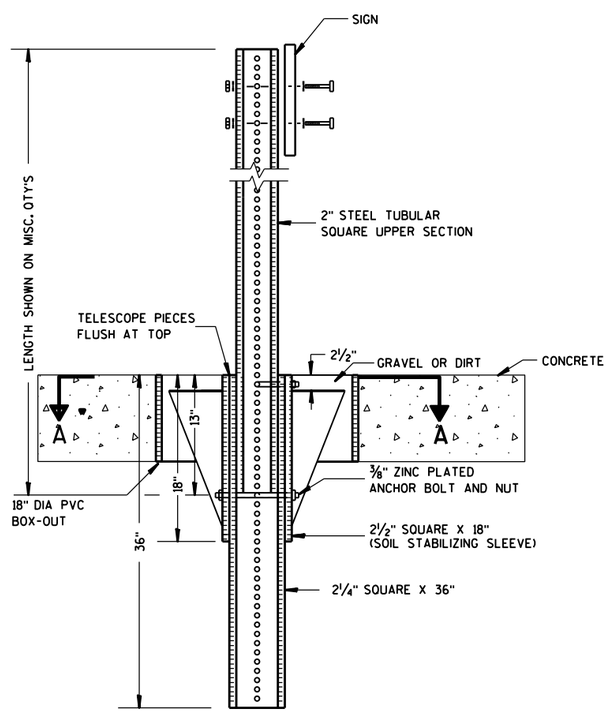
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

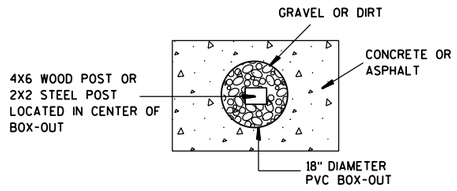
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

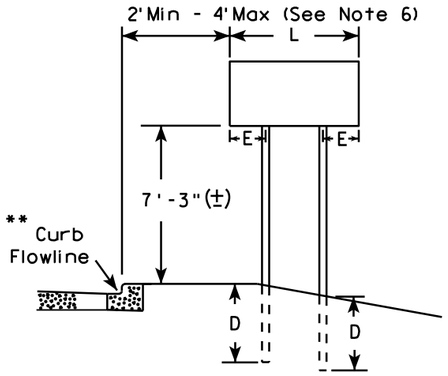
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

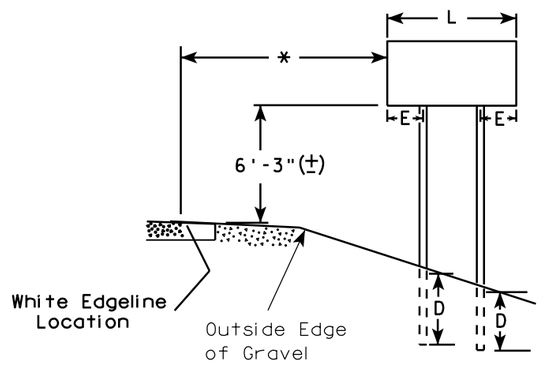
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

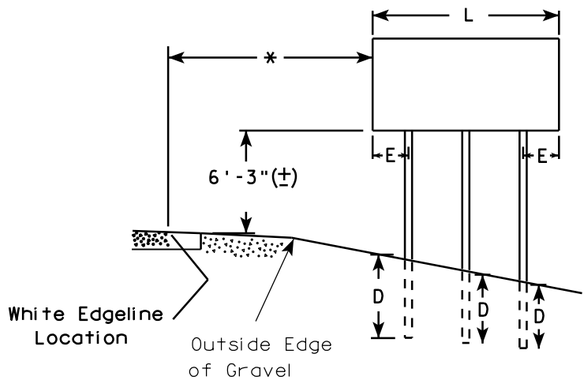
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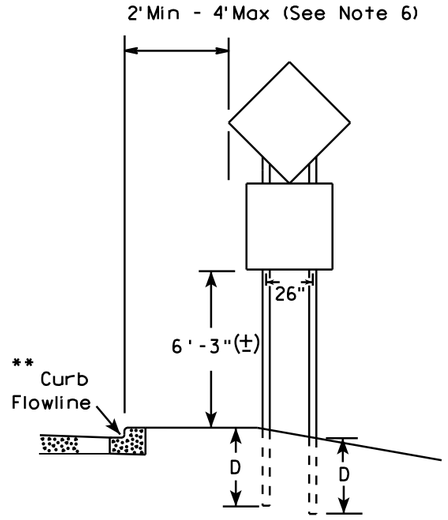
URBAN AREA



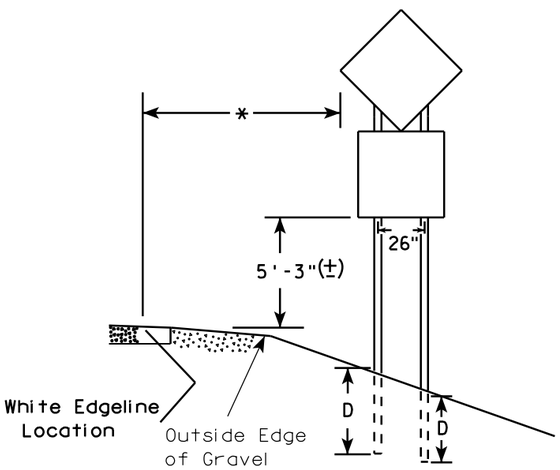
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

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

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

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

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

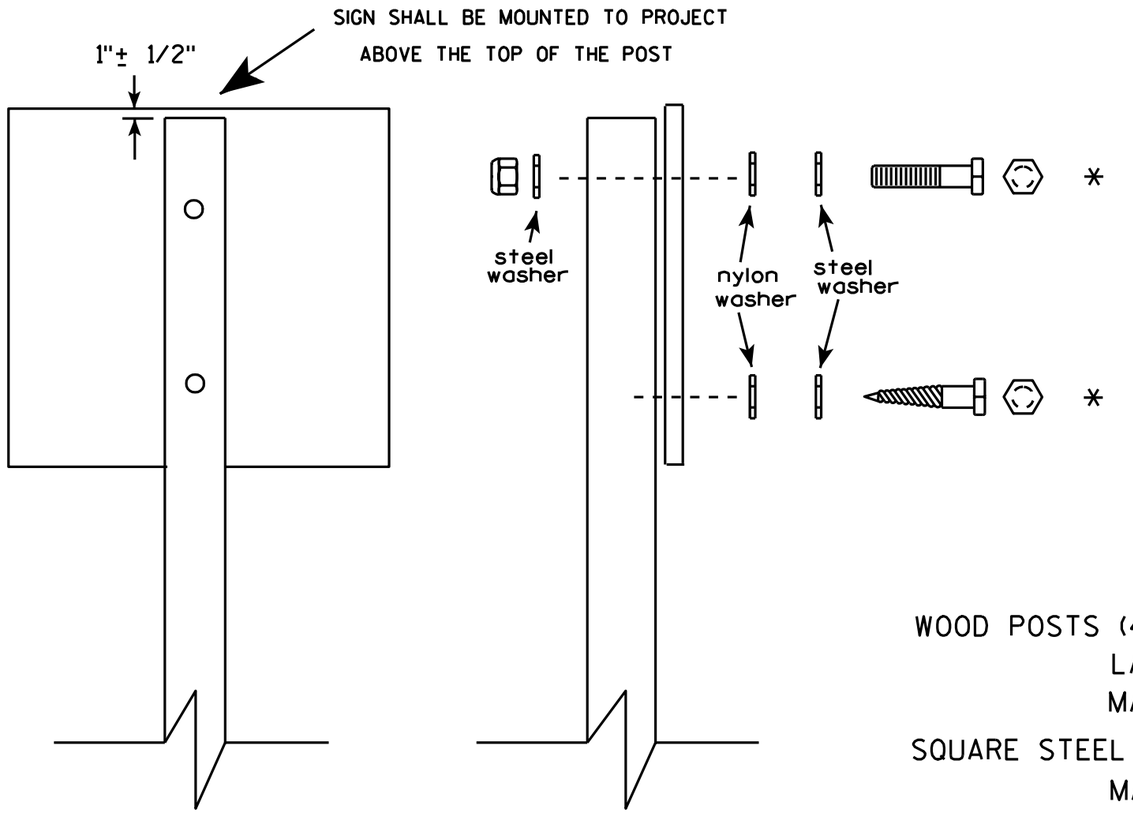
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/14 PLATE NO. A4-4 220 13

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



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

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

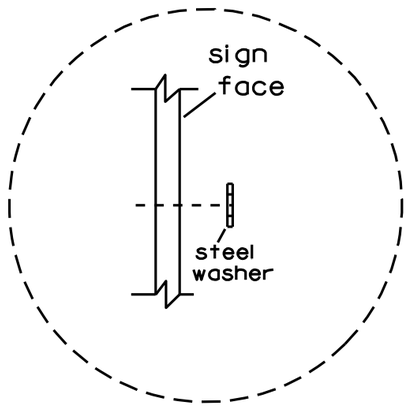
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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

WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts

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

WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/10 PLATE NO. A4-8.7

7

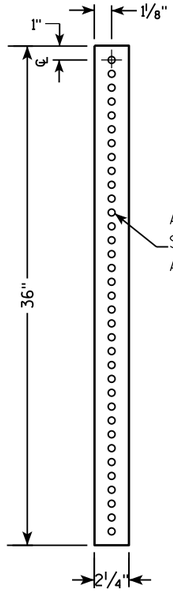
7

PROJECT NO:

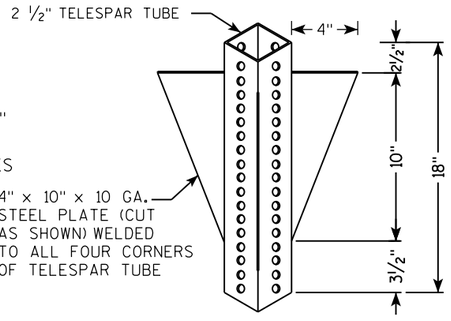
SHEET NO: 221 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

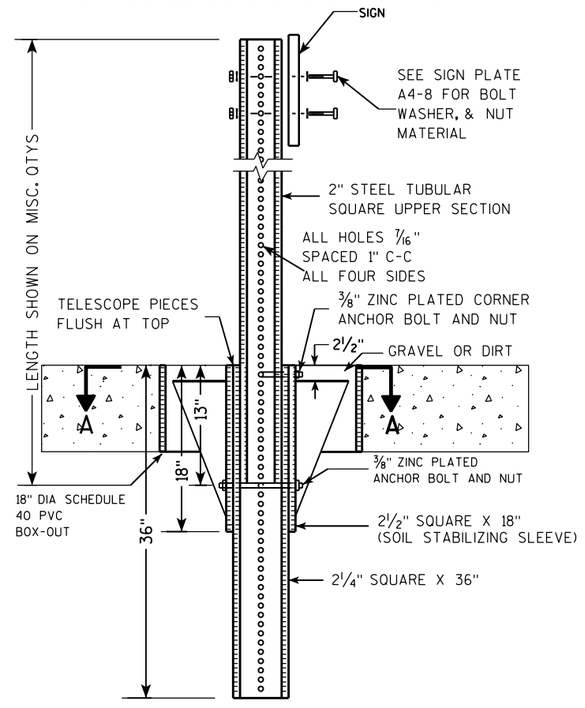
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



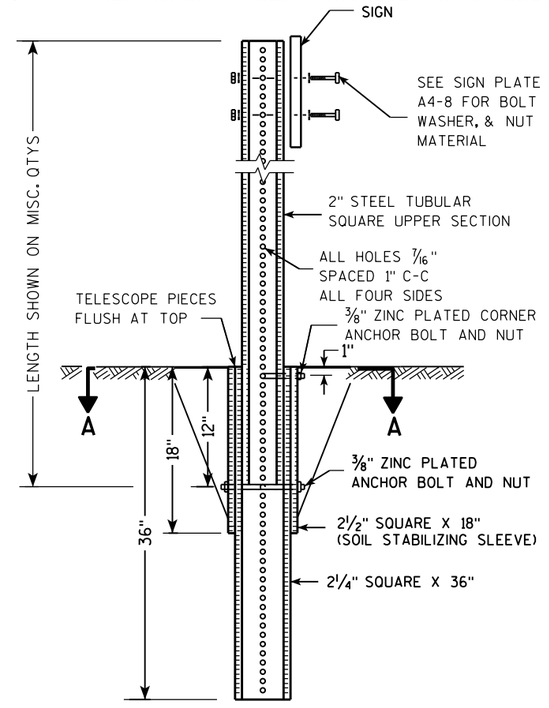
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

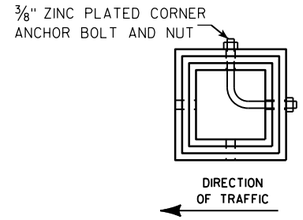


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

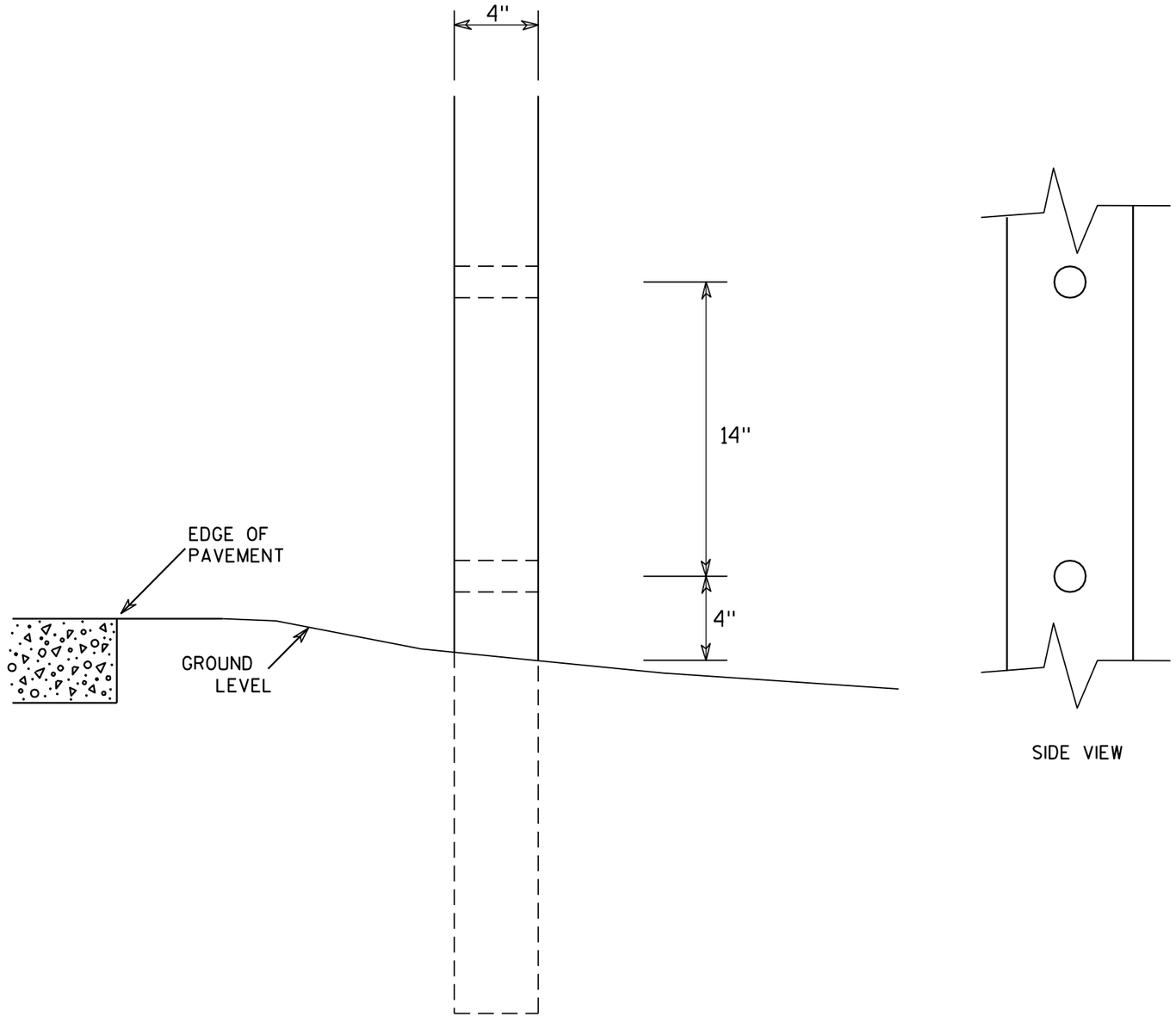
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 222 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

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

7

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

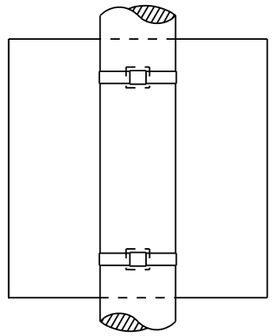
APPROVED Chester J Spang
for State Traffic Engineer

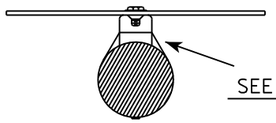
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 223	E

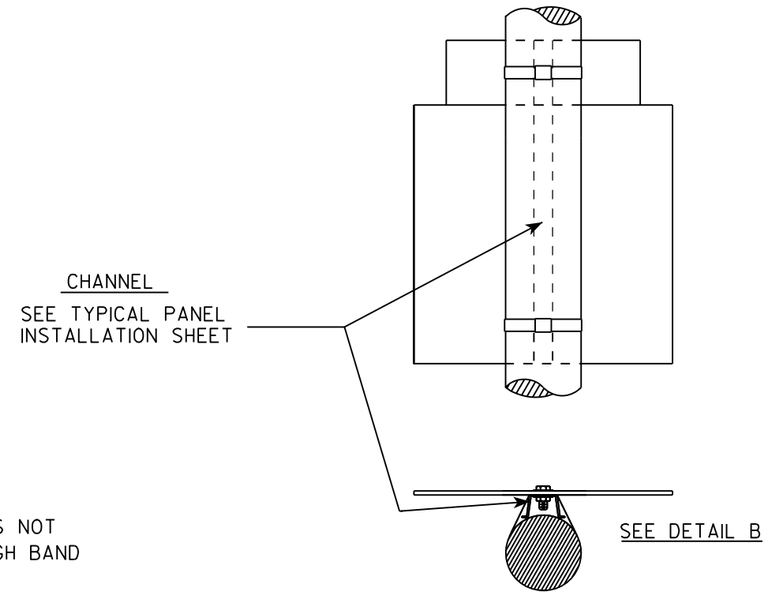
BANDING

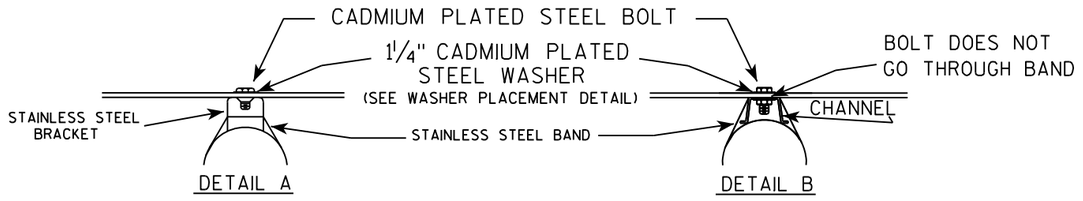
SINGLE SIGN



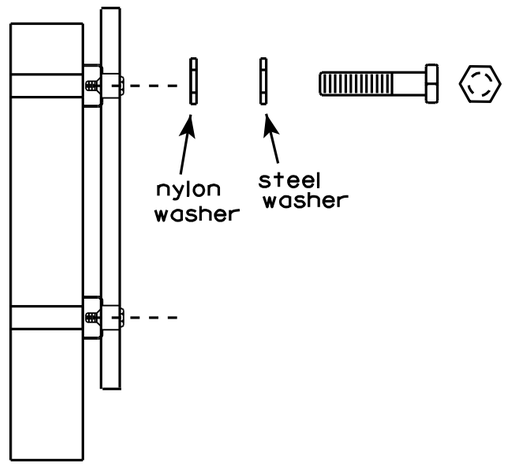


"J" ASSEMBLY





WASHER PLACEMENT



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

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.

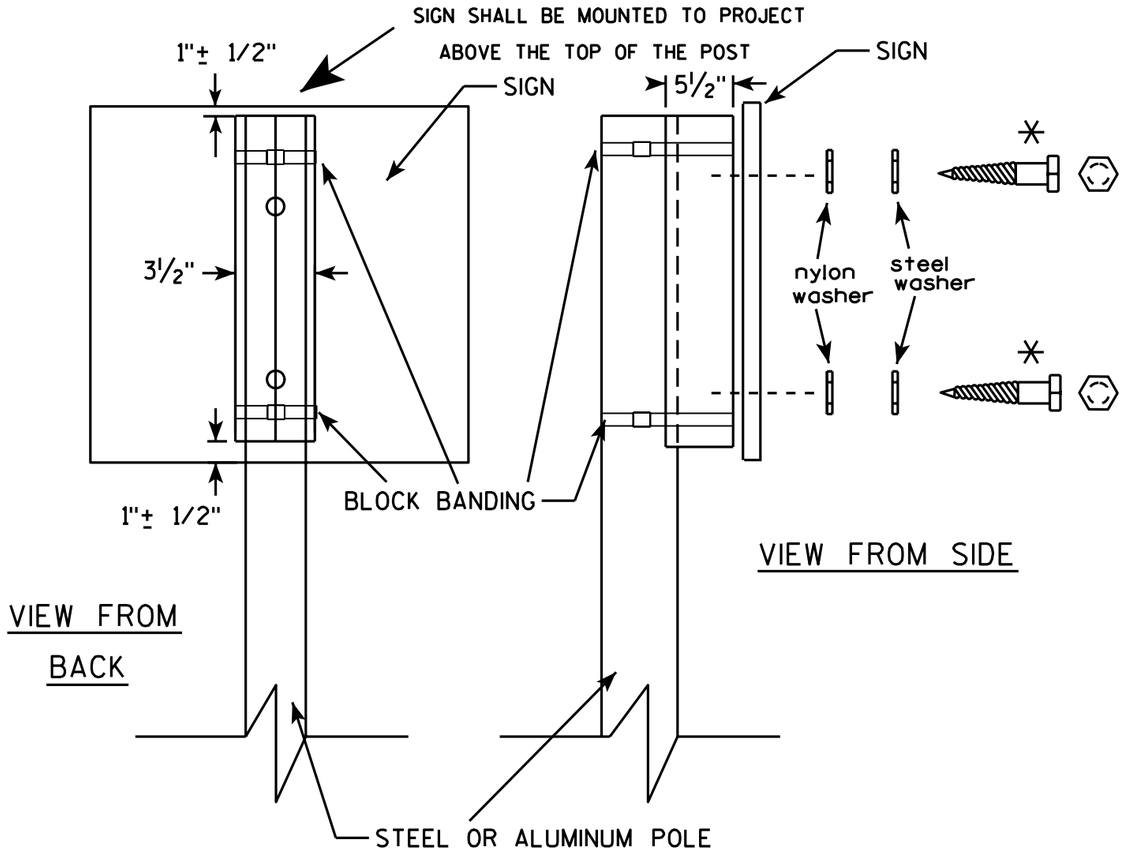
STANDARD SIGN
SIGN BANDING DETAILS

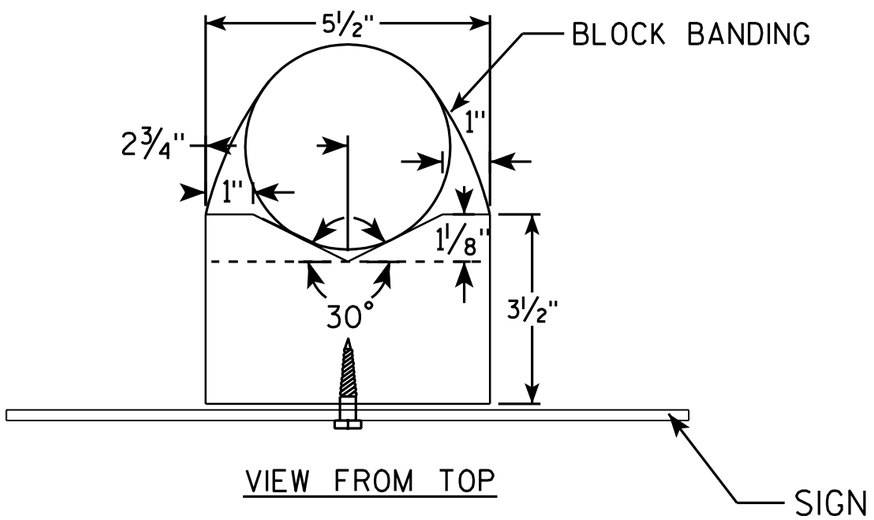
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 224	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

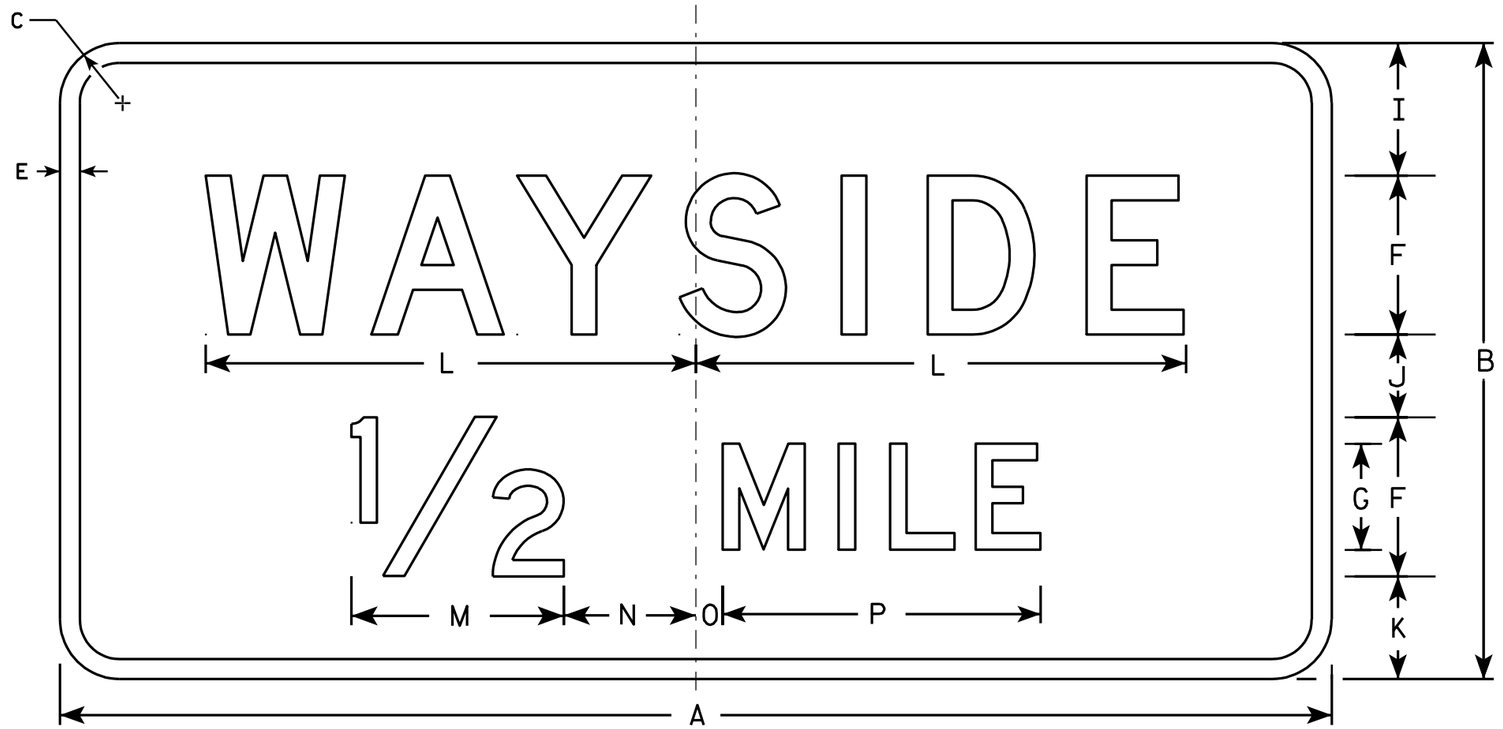
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO: | SHEET NO: 225 | E

FILE NAME : C:\Users\Projects\tr_stdplate\A510.dgn PLOT DATE : 06-AUG-2007 13:37 PLOT BY : ditjph

WISDOT/CADDS SHEET 42



D5-61

NOTES

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

Metric equivalent for this sign is:

SIZE	
1	
2	1200 mm X 600 mm
3	
4	1950 mm X 1050 mm
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		
1																												
2	48	24	2 1/4		3/4	6	4	6	5	3 1/8	3 7/8	18 1/2	8	5	1	12											8.0	0.72
3																												
4	78	42	3		1	10	7	10 1/2	8 3/4	5 3/4	7	30 1/8	14	8 3/4	1 3/4	21											22.8	2.05
5																												

STANDARD SIGN
D5-61

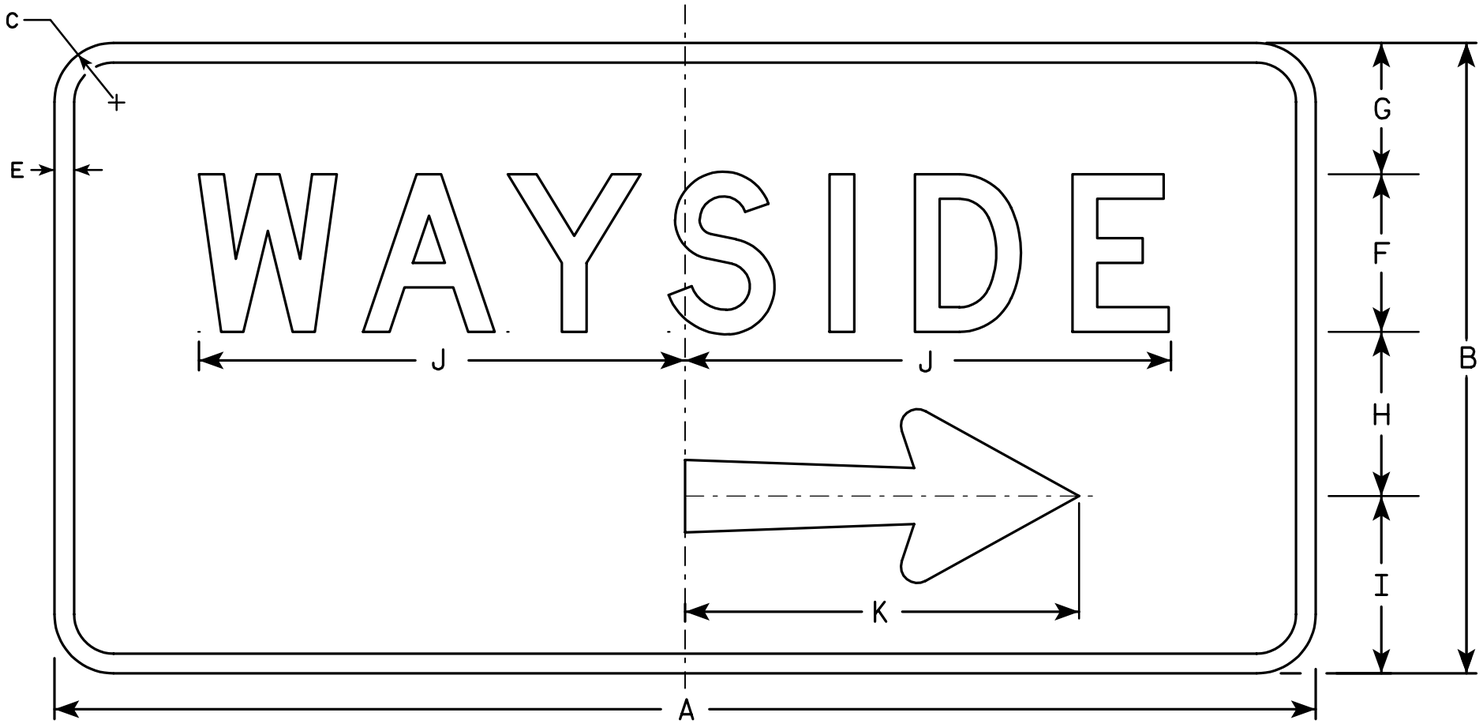
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spagg for State Traffic Engineer

DATE 1/09/02 PLATE NO. D5-61.9

STATE PROJECT NUMBER:

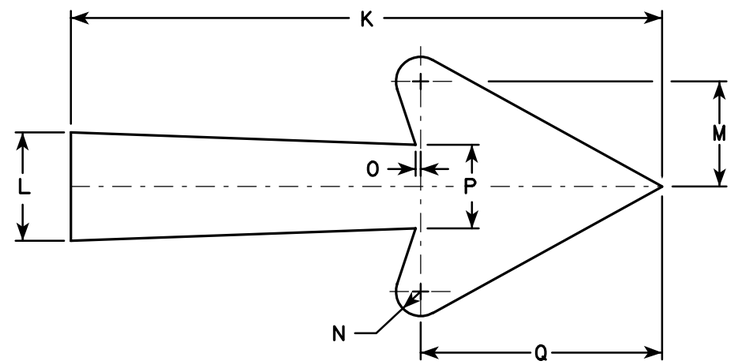
SHEET NO: 226 E



D5-62R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Blue
   Message - White
3. Message Series - 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. D5-62L is the same as D5-62R except that the arrow is rotated 180° about the vertical center line.



Arrow Detail

Metric equivalent for this sign is:

SIZE	
1	
2	1200 mm X 600 mm
3	
4	1950 mm X 1050 mm
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.	Area m2
1																												
2	48	24	2 1/4		3/4	6	4	6 1/4	6 3/4	18 1/2	15	2 3/4	3 1/8	5/8	1/8	2 1/8	6 1/8										8.0	0.72
3																												
4	78	42	3		1	10	8 3/4	11	12 1/4	30 1/8	26 1/4	4 3/4	4 5/8	1 1/8	1/4	3 3/4	10 3/4										22.8	2.05
5																												

STANDARD SIGN
D5-62

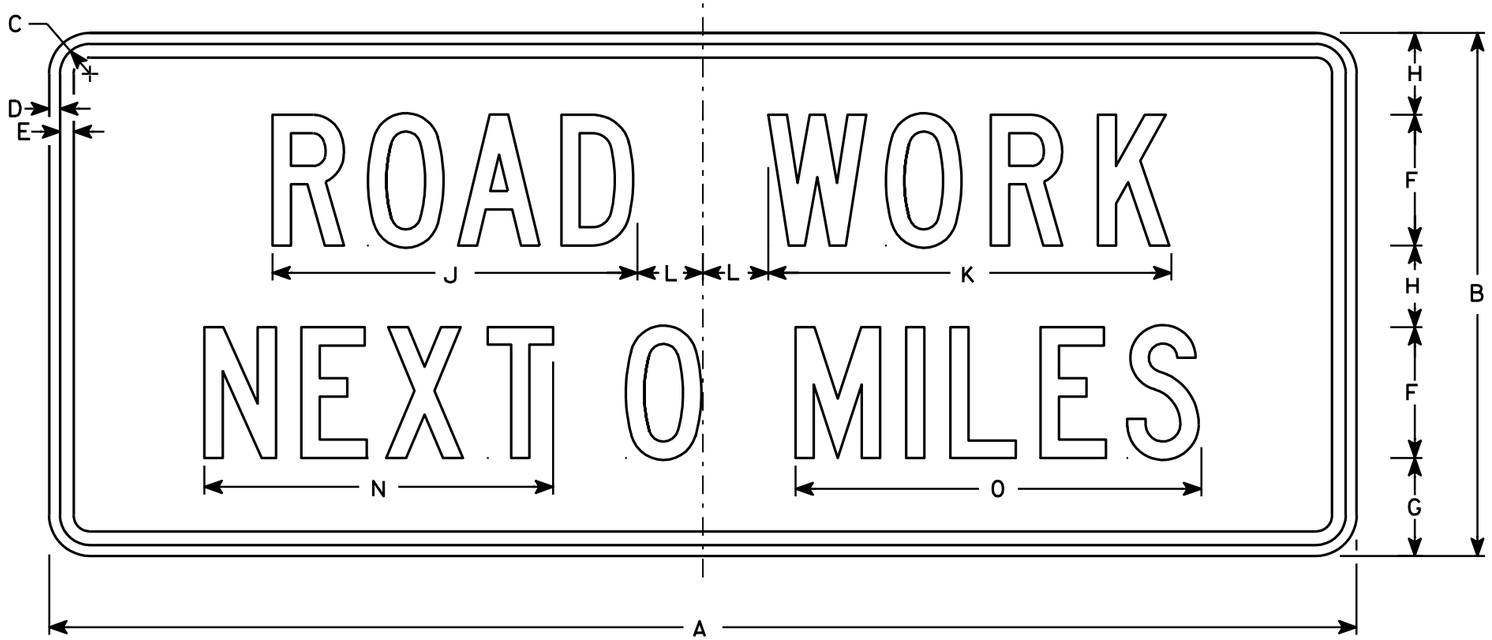
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spagg for State Traffic Engineer

DATE 1/09/02 PLATE NO. D5-62.10

STATE PROJECT NUMBER:

SHEET NO: 227 E



G20-1

NOTES

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

Metric equivalent for this sign is:

SIZE	
1	
2	1500 mm X 600 mm
3	
4	1500 mm X 600 mm
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.	Area m2
1																												
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10	.90
3																												
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10	.90
5																												

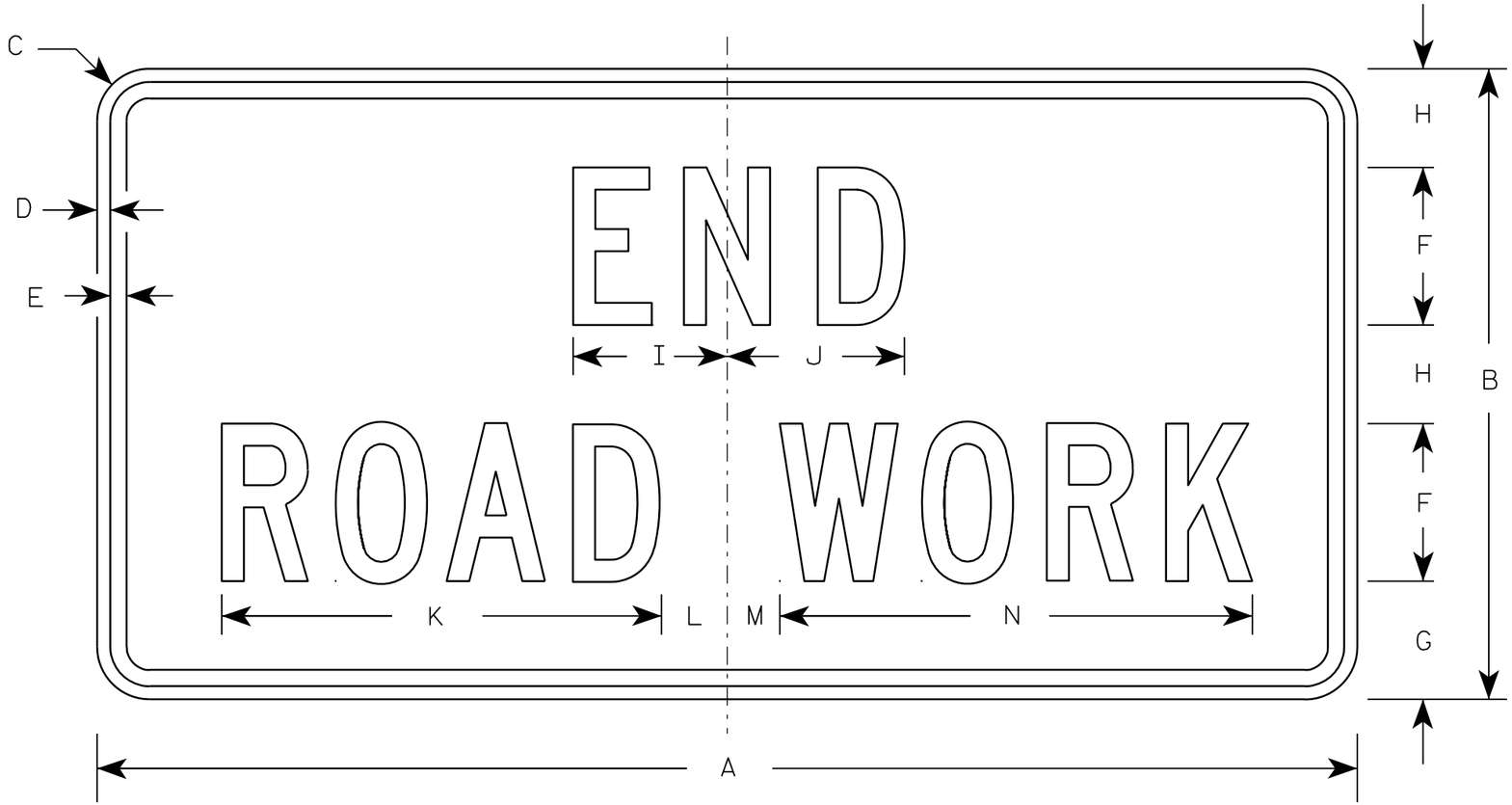
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spray for State Traffic Engineer

DATE 4/8/97 PLATE NO. G20-1.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 228	E



G20-2A

NOTES

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

Metric equivalent for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 229	E

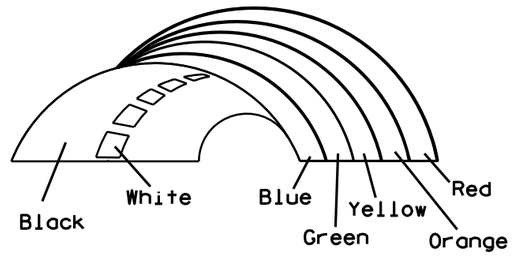


* VARIES

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - (See Note 5)
3. Message Series - (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. Border - Blue
   Line 1 - Red
   Line 2 - Black
   Line 3-5 - Blue
6. Line 1 - Dutch 8011L
   Line 2 - Series E
   Line 3-5 - Series C
7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

Background Colors of Symbol*



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

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	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

STANDARD SIGN
I55-56

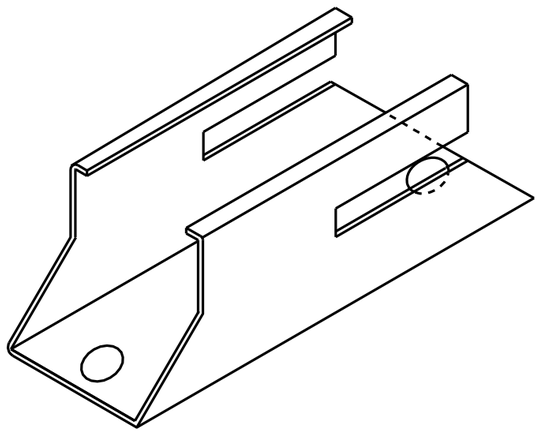
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 230

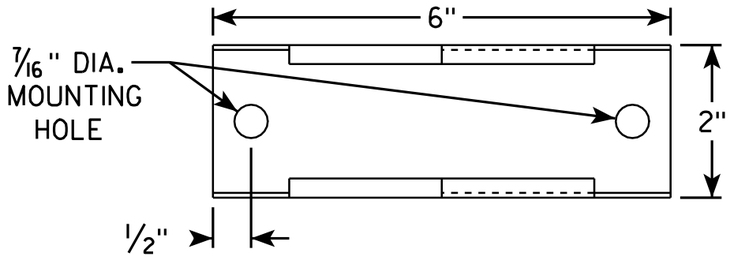
ISOMETRIC VIEW



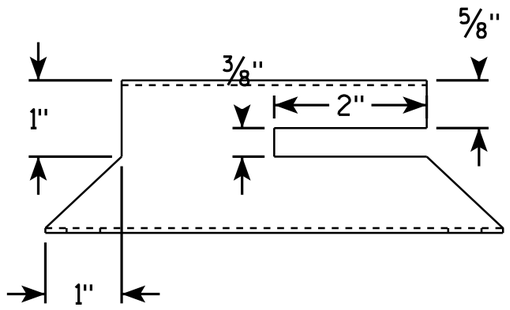
NOTES

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.

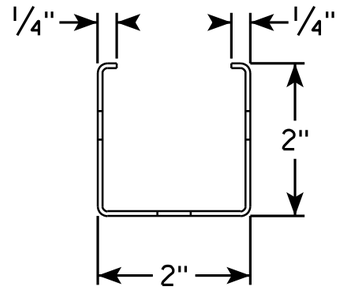
TOP VIEW



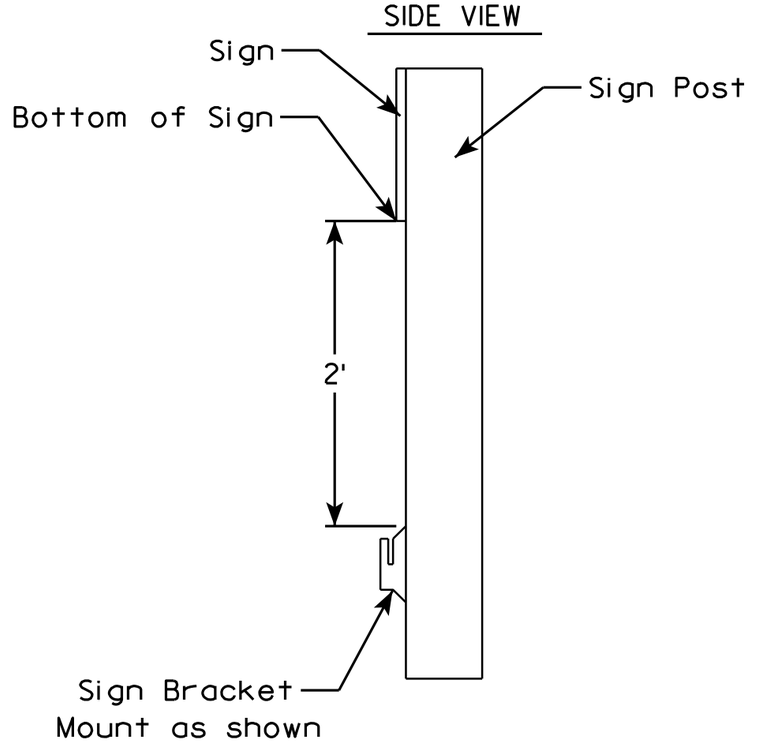
SIDE VIEW



END VIEW



SIDE VIEW



7

7

ROLLUP SIGN BRACKET I55-56B

WISCONSIN DEPT OF TRANSPORTATION

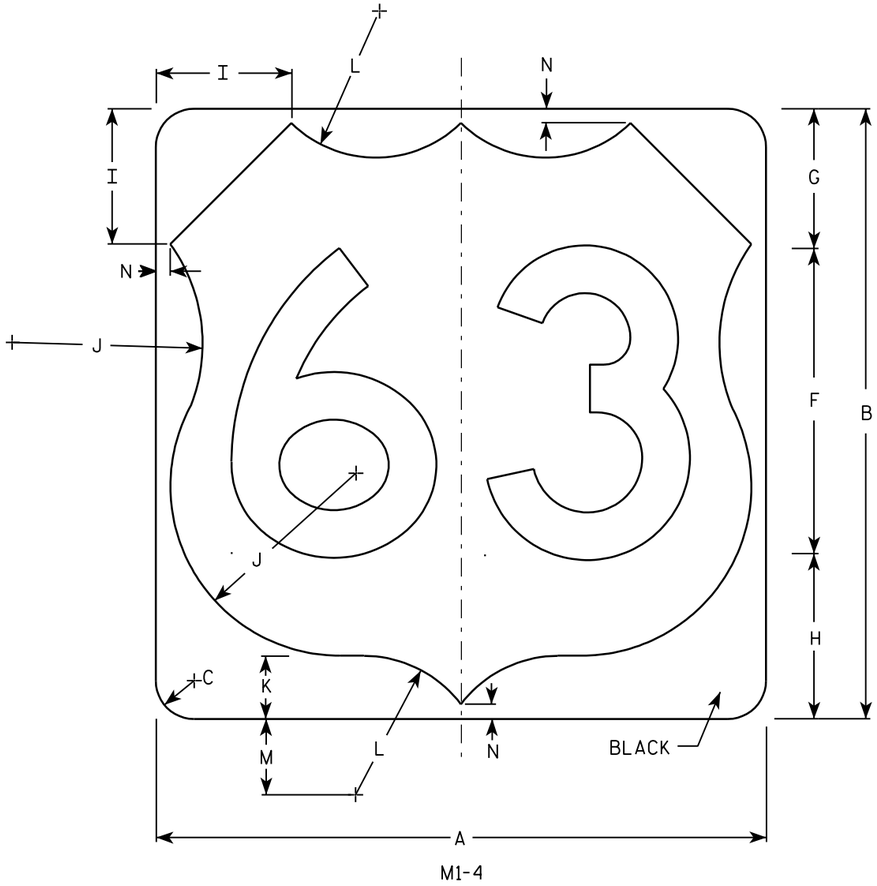
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/10 PLATE NO. I55-56B.1

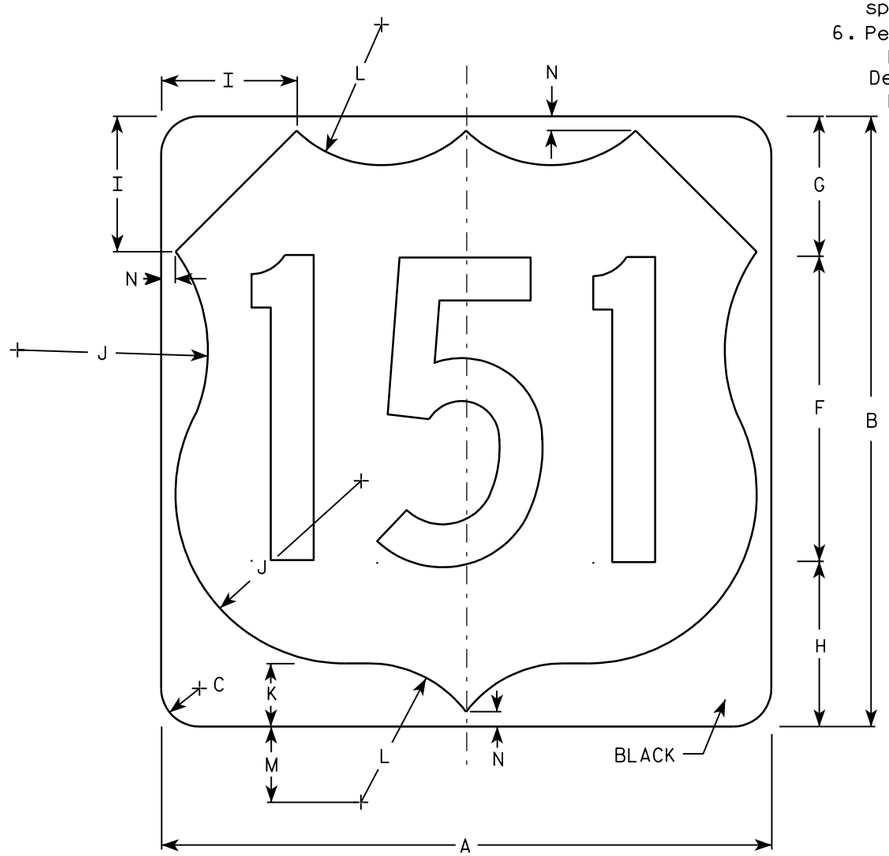
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 231	E

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective



M1-4



M1-4

7

7

Metric equivalent for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Areq. sq. ft.	Area m2
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	.36
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	.81
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	.81
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	.81

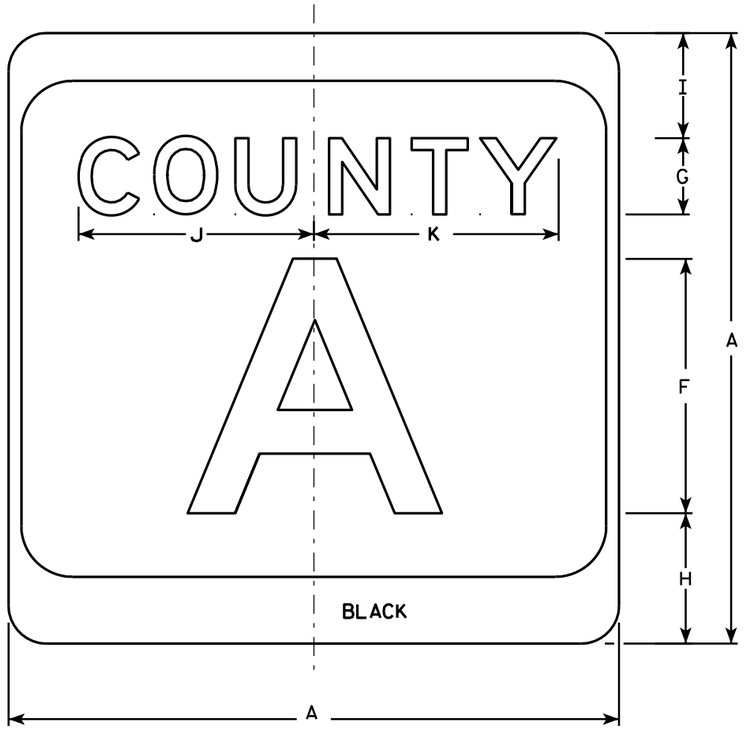
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

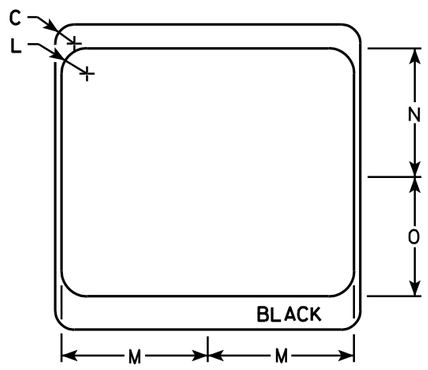
APPROVED Matthew R Rauch
for State Traffic Engineer

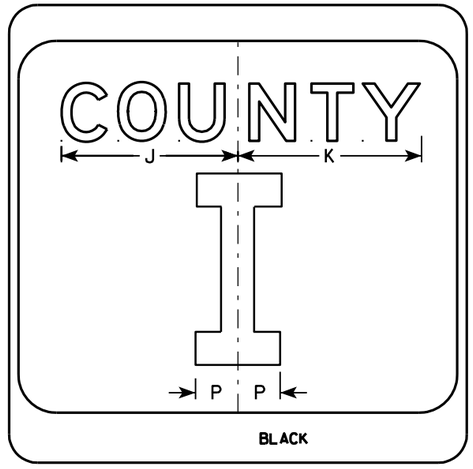
DATE 08/25/05 PLATE NO. M1-4.9

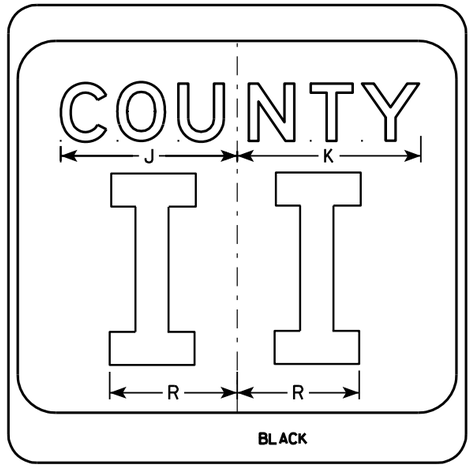
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 232	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

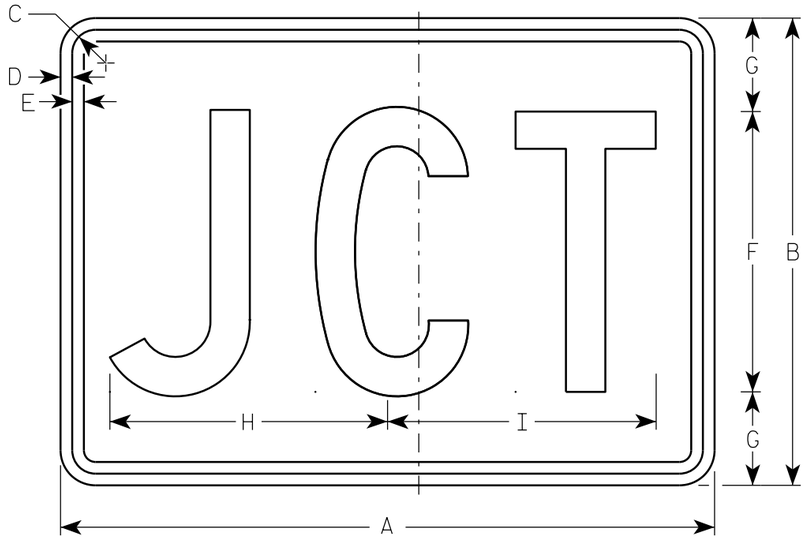
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

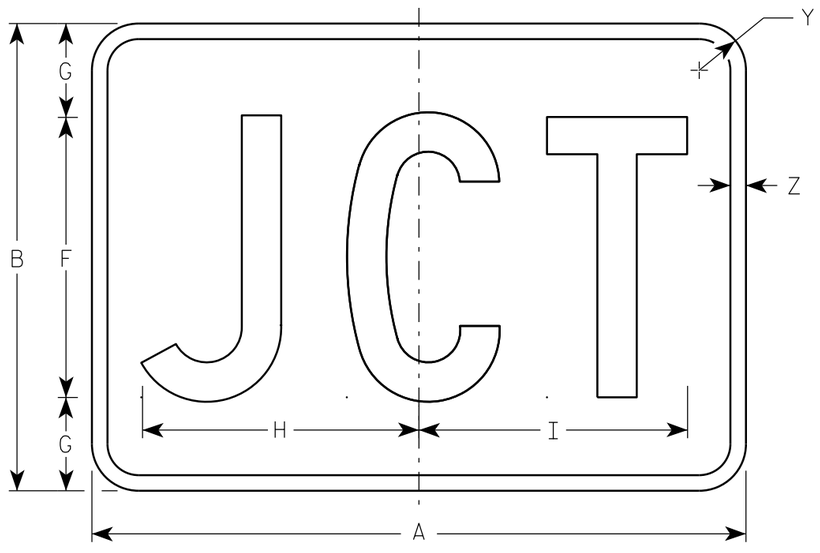
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 233	E



M2-1
MK2-1
MM2-1
MN2-1
MR2-1



MB2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

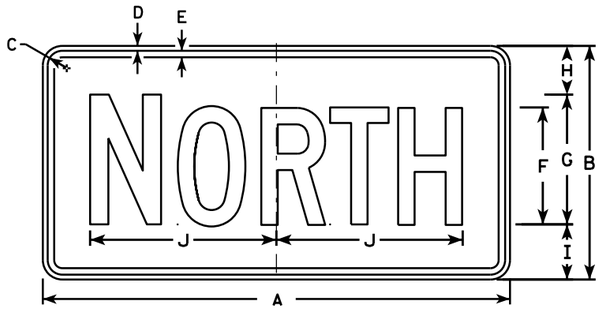
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

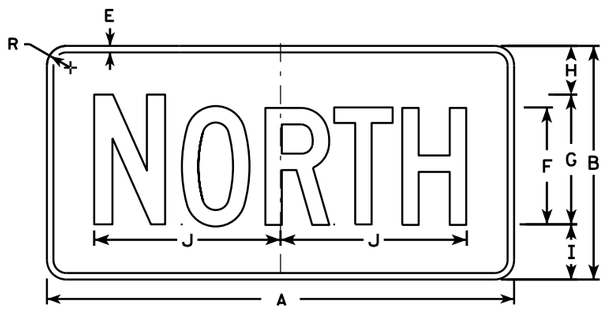
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/30/14 PLATE 234 12-1.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



M3-1
MK3-1
MM3-1
MN3-1



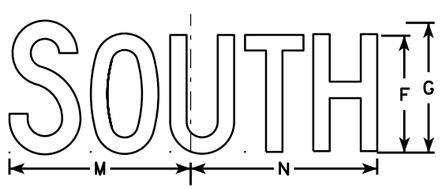
MB3-1



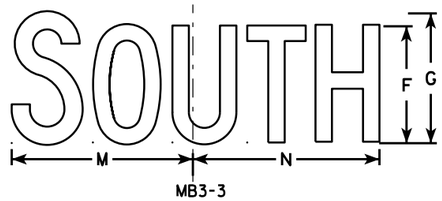
M3-2
MK3-2
MM3-2
MN3-2



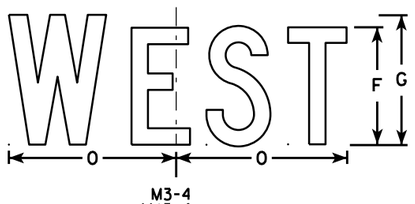
MB3-2



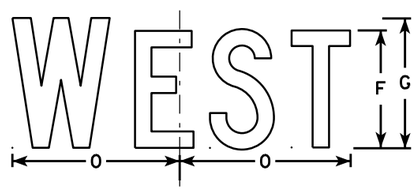
M3-3
MK3-3
MM3-3
MN3-3



MB3-3



M3-4
MK3-4
MM3-4
MN3-4



MB3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

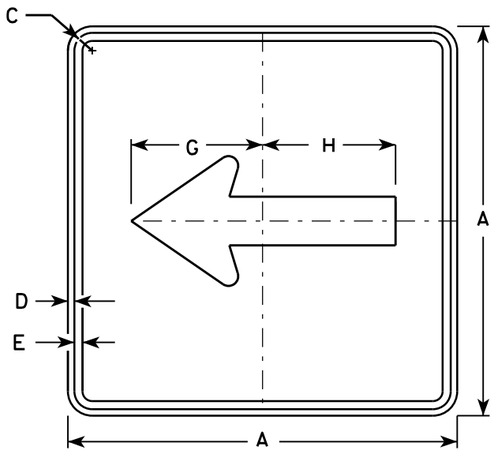
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

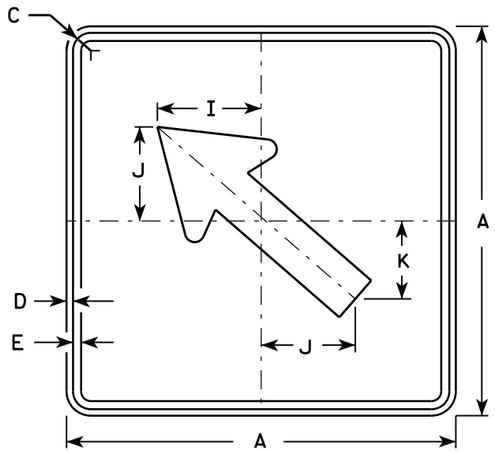
DATE 6/30/14 PLATE NO M3-1.13

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

7



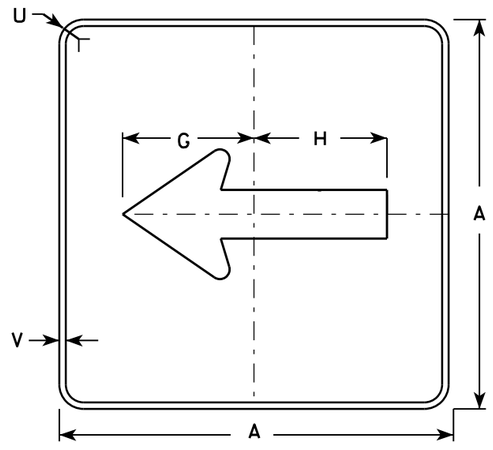
M6-1
MK6-1
MM6-1
MN6-1
MO6-1
MP6-1
MR6-1



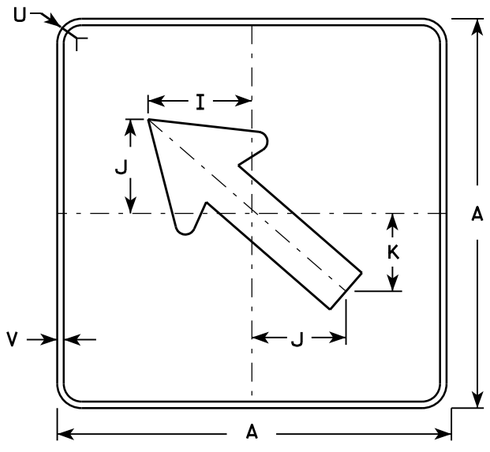
M6-2
MK6-2
MM6-2
MN6-2
MO6-2
MP6-2
MR6-2

NOTES

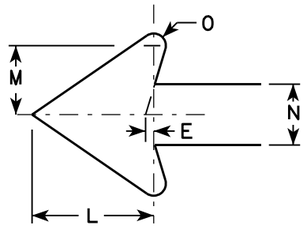
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MG6-1 and MG6-2 Background - Green
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1



MB6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

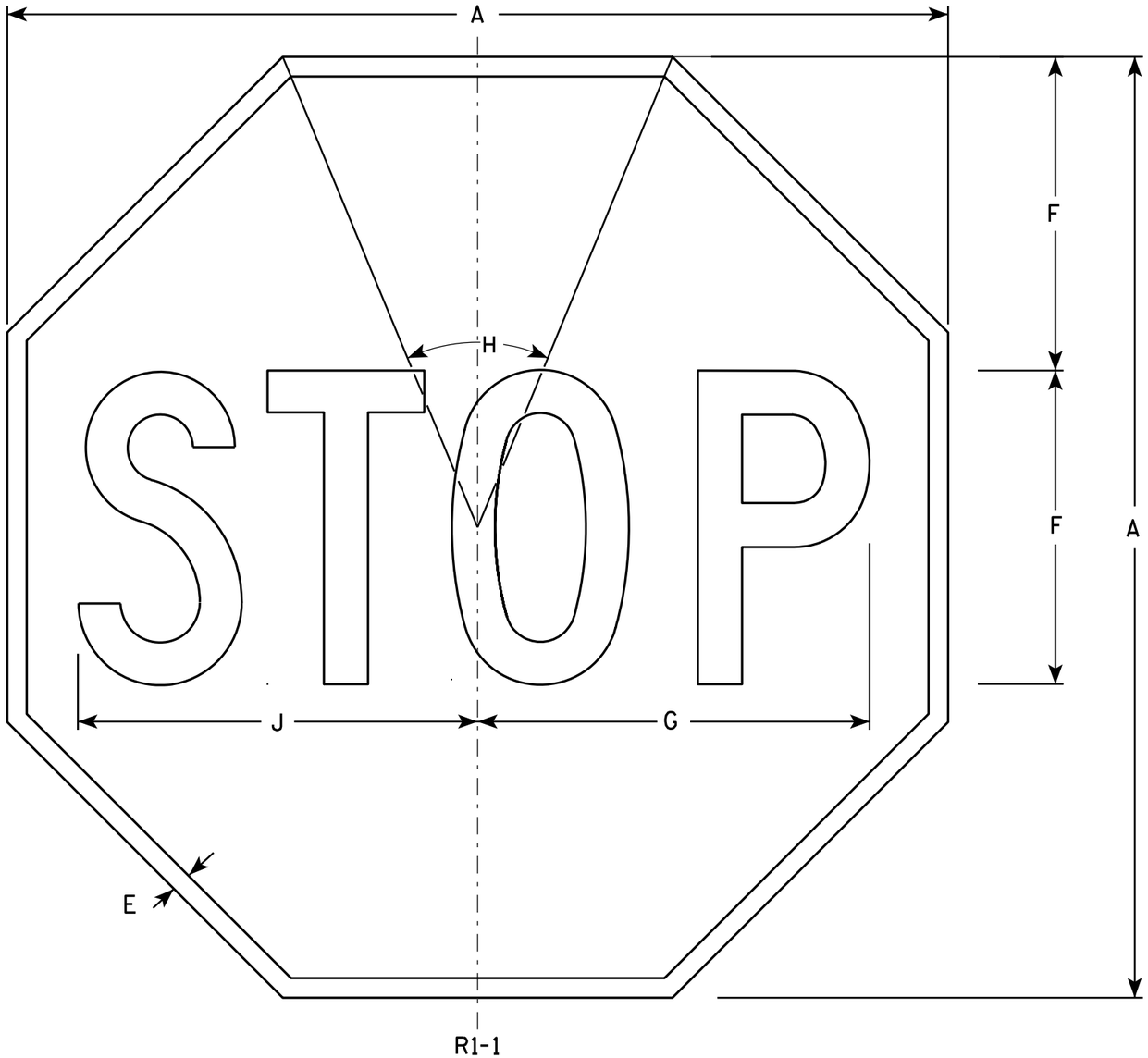
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/03/14 PLATE M6-1.14

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 03-JUL-2014 14:28 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 11.675051:1.000000
WISDOT/CADDS SHEET 42



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

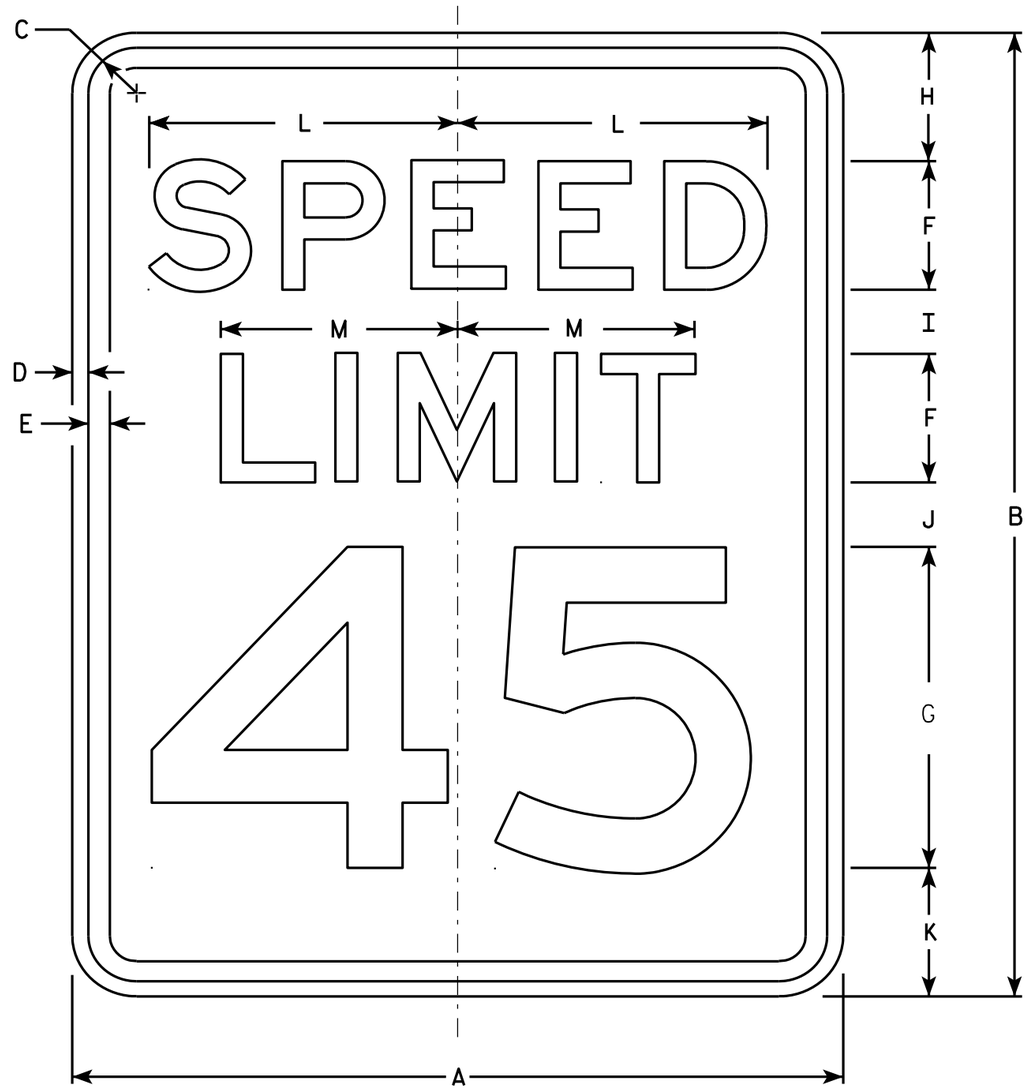
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 237	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

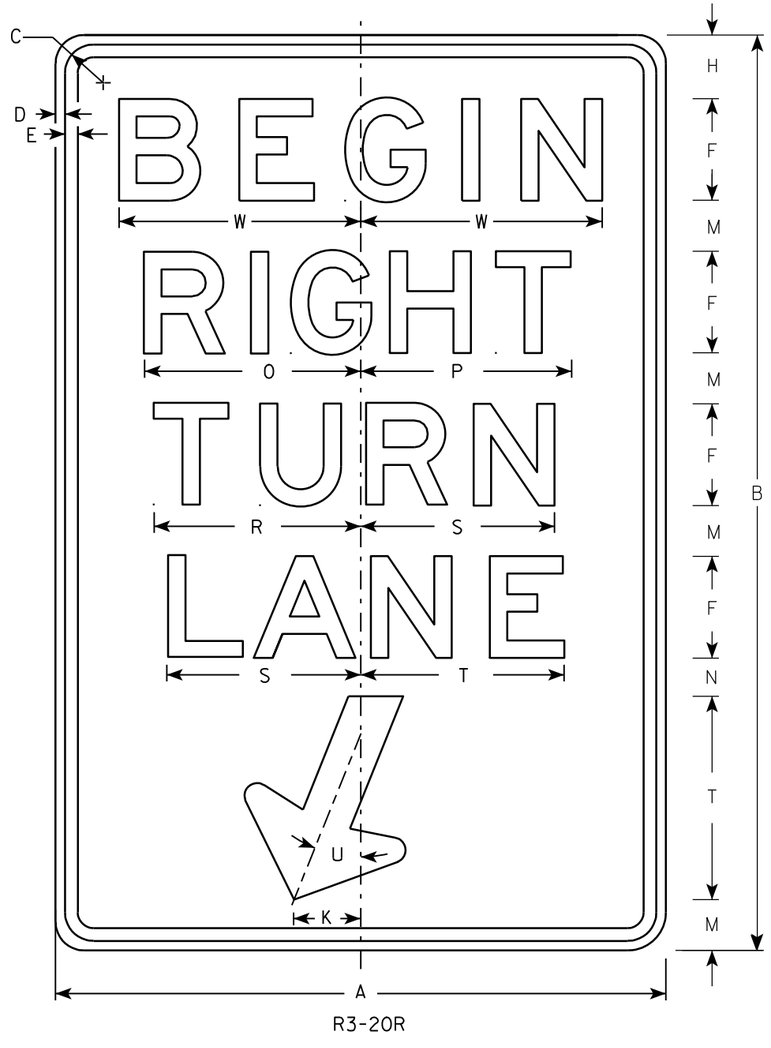
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

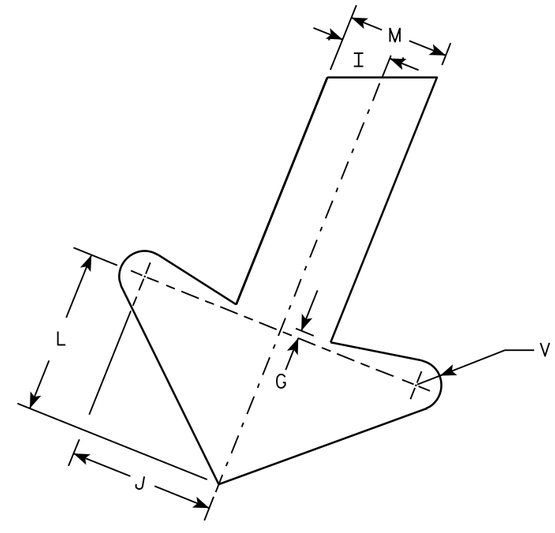
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 238 | E



R3-20R

NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

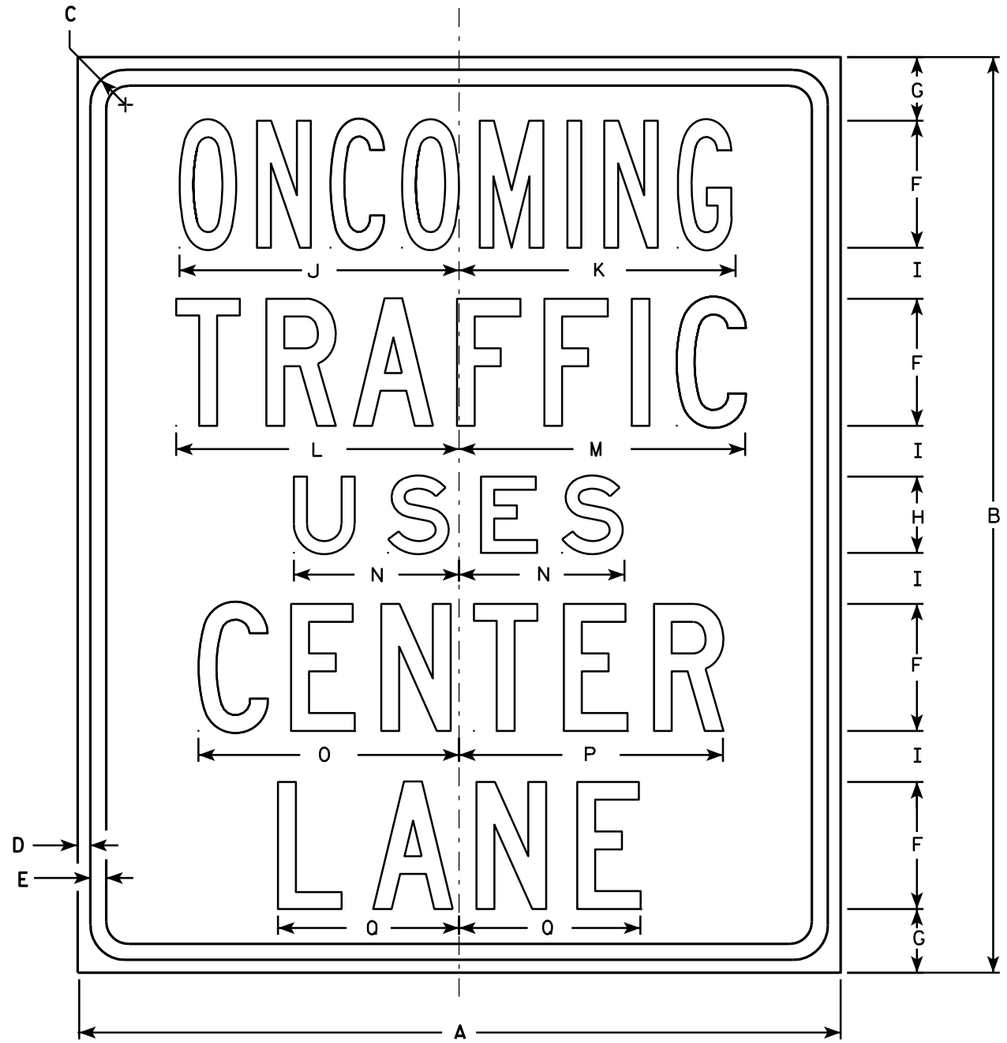
STANDARD SIGN
R3-20R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20R.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 239 | E



R3-72

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B, Lines 2, 4 and 5 are Series C, and Line 3 is 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.

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	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 7/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
2S	30	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 7/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
2M	30	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 7/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
3																											
4																											
5																											

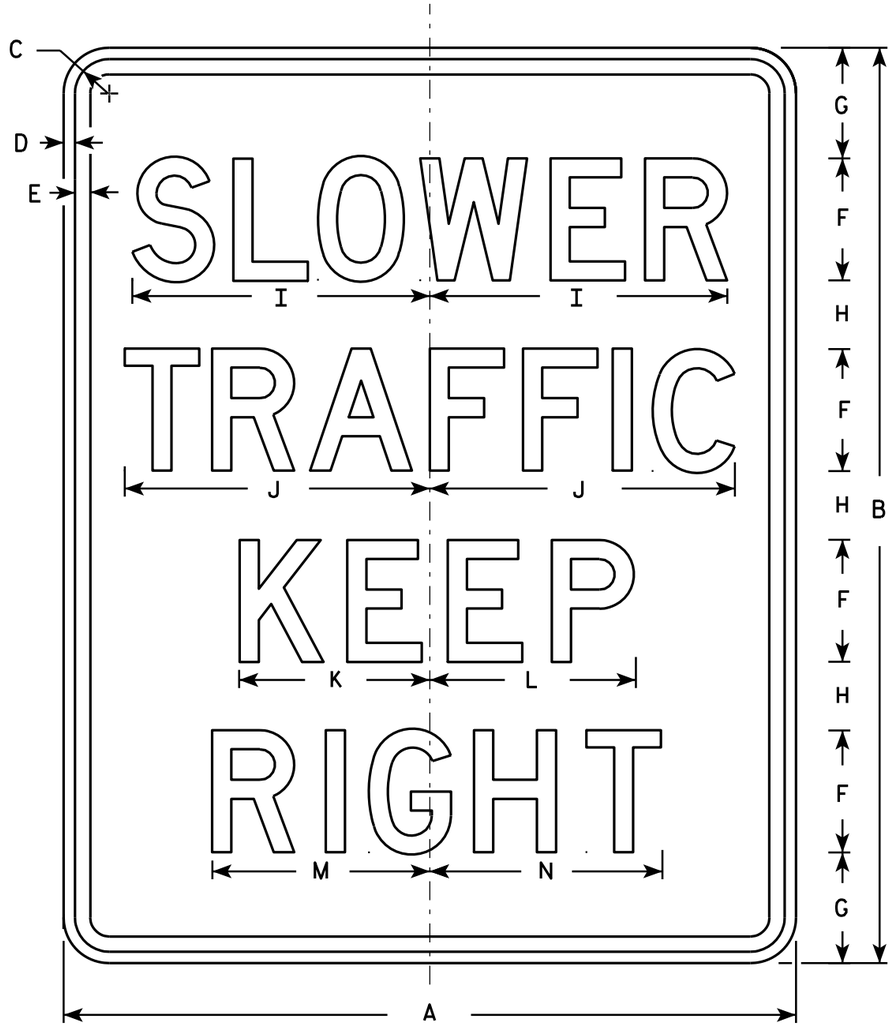
STANDARD SIGN
R3-72

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R3-72.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 240	E



R4-3

NOTES

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

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	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
2M	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
3	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
4	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
5	48	60	2 1/4	3/4	1	8	7 1/4	4 1/2	19 1/2	20	12 1/2	13 1/2	14 1/4	15 1/4													20.0

STANDARD SIGN
R4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-3.8

PROJECT NO:

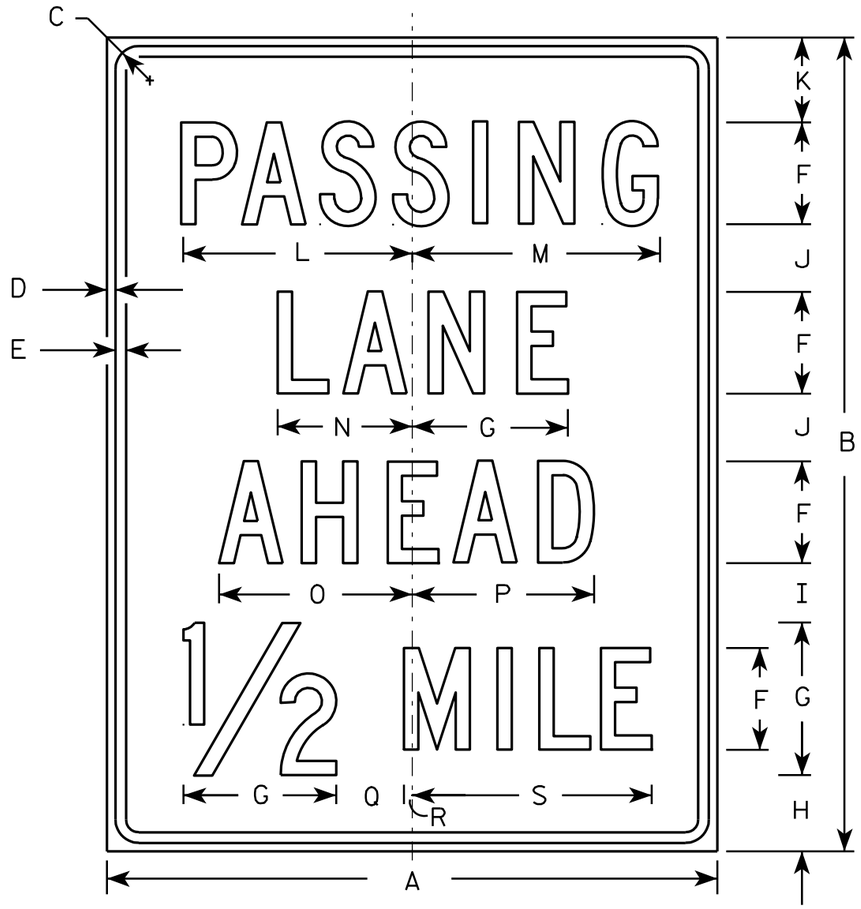
SHEET NO: 241 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R43.DGN PLOT DATE : 25-MAR-2011 13:40 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

7



R4-51

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	36	48	1 3/8	1/2	5/8	6	9	4 1/2	3 1/2	4	5	13 5/8	14 1/2	8	11 3/8	10 3/4	4	1/2	14 1/8								12.0
2M	36	48	1 3/8	1/2	5/8	6	9	4 1/2	3 1/2	4	5	13 5/8	14 1/2	8	11 3/8	10 3/4	4	1/2	14 1/8								12.0
3																											
4																											
5																											

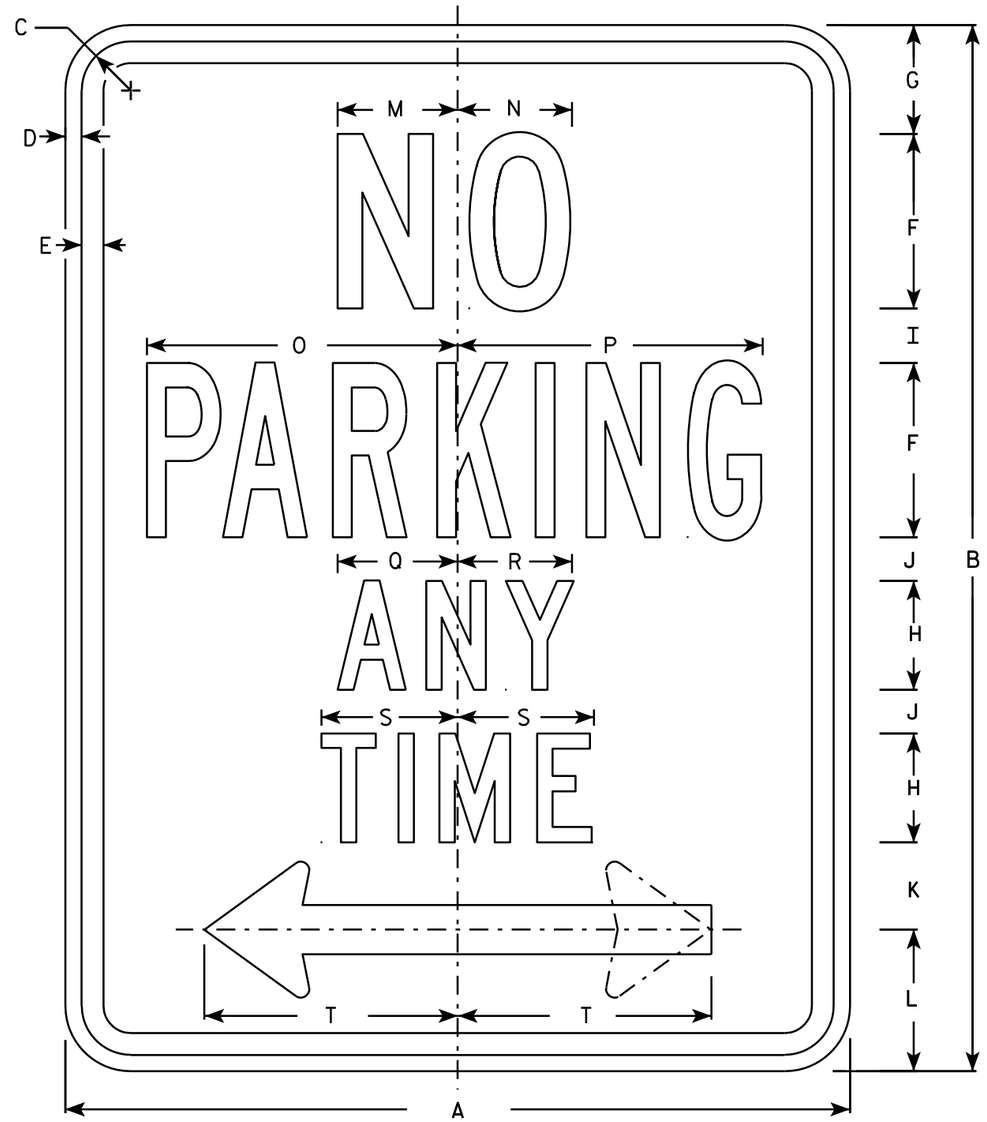
STANDARD SIGN
R4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R4-51.4

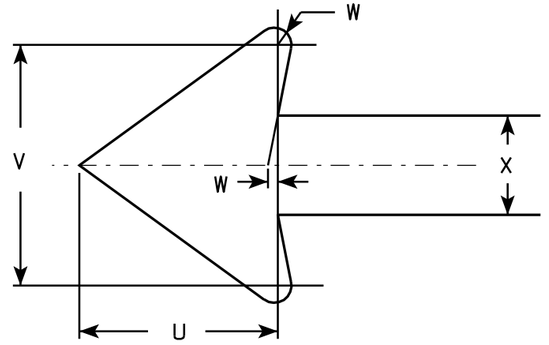
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 242 | E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

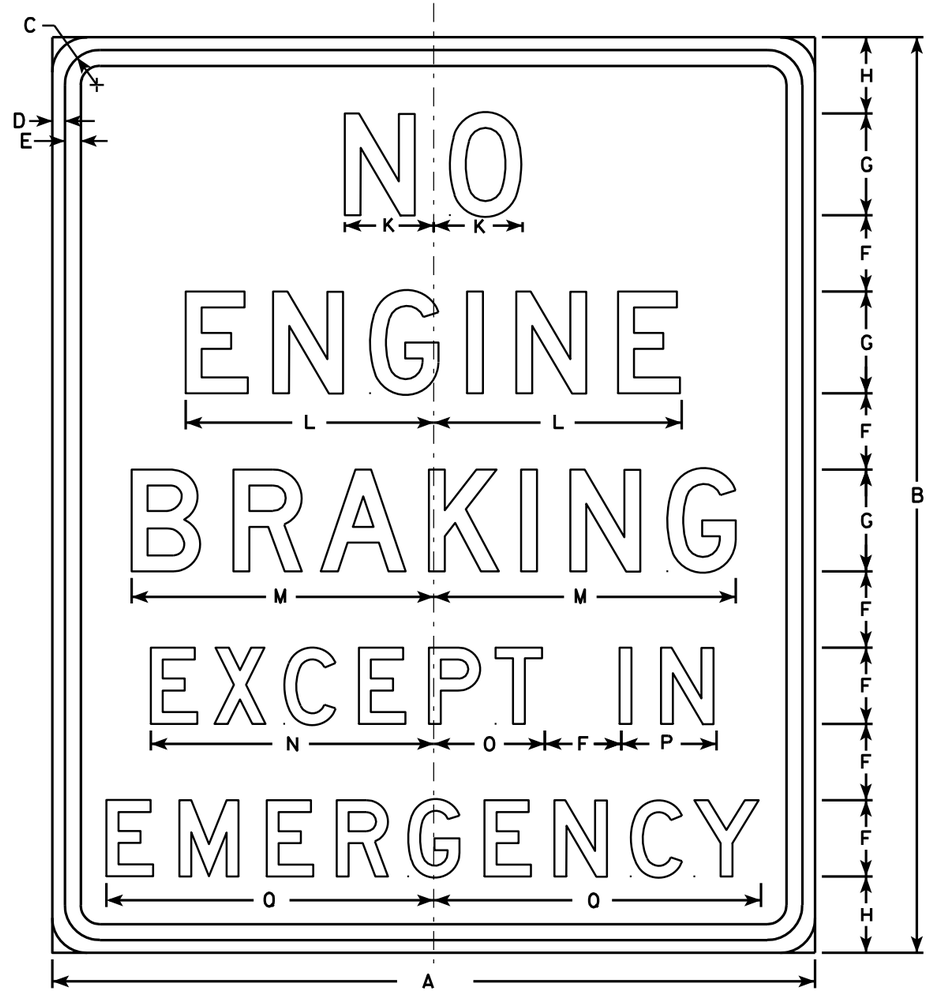
STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

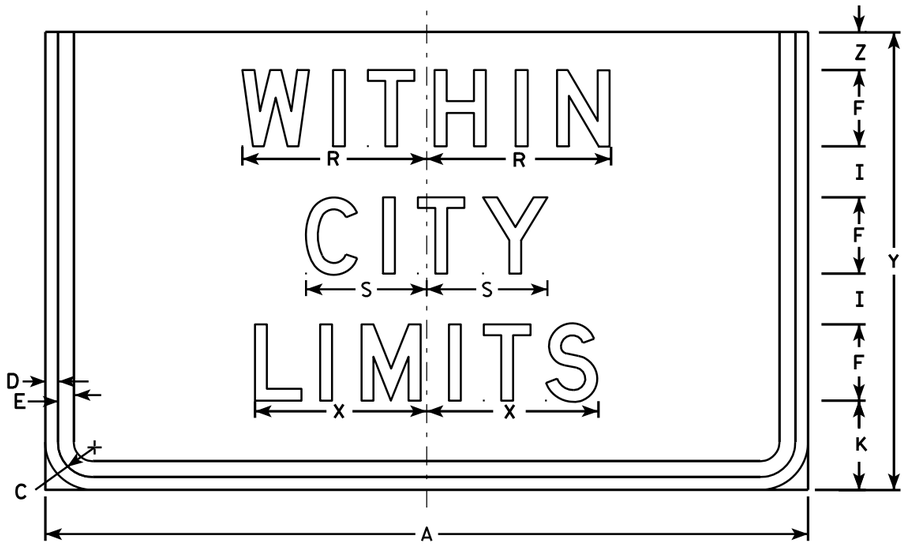
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

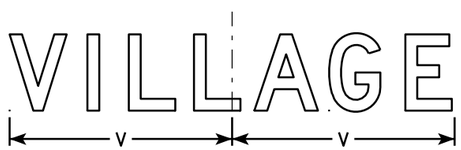
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 243 | E



R10-64



R10-64F



Area sq. ft.
3.75
7.0



NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D 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 2 of R10-64F is Series C for "TOWNSHIP" Only

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	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
2S	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
2M	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
3	42	48	1 3/8	1/2	5/8	4	5	4 1/2	3		4	12 1/4	14 7/8	14 1/8	5 1/4	4 3/4	16 1/4	9	6		11	11 1/4	1 1/2	8 1/2	24	2	14.0
4																											
5																											

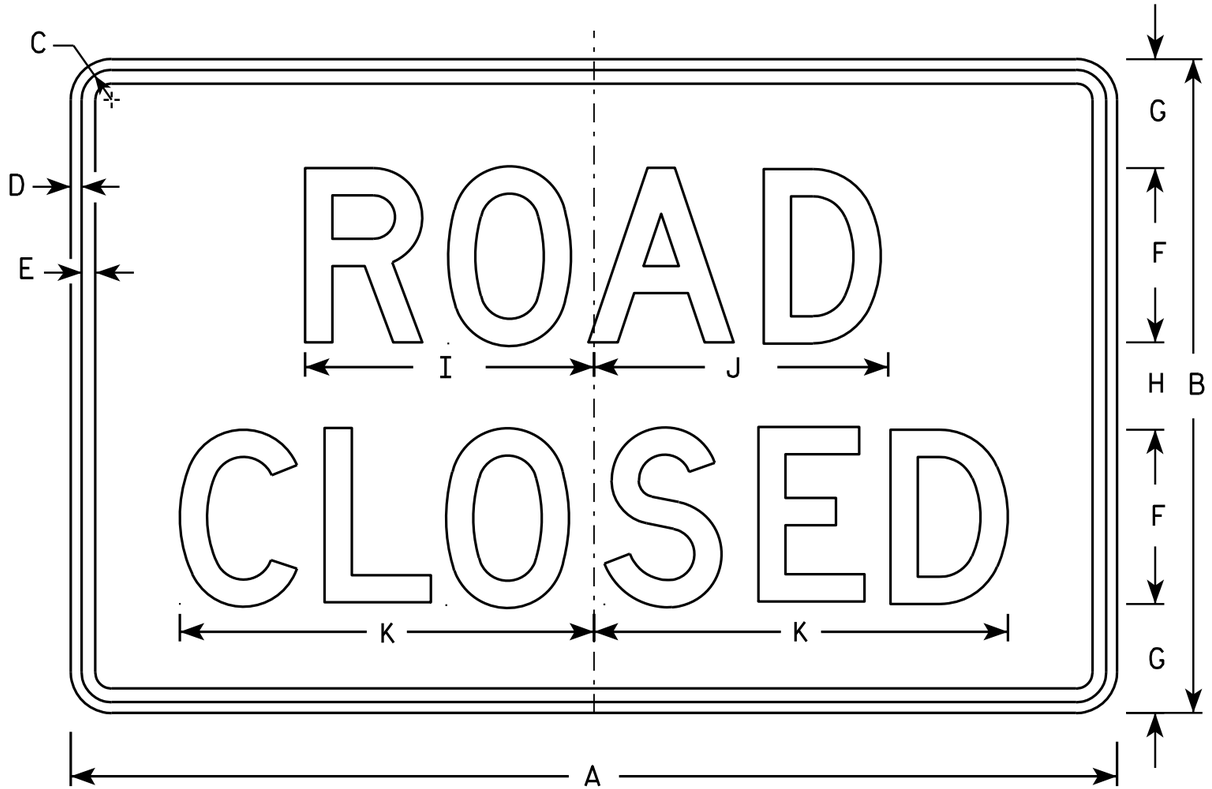
STANDARD SIGN
R10-64 & R10-64F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/4/11 PLATE NO. R10-64.7

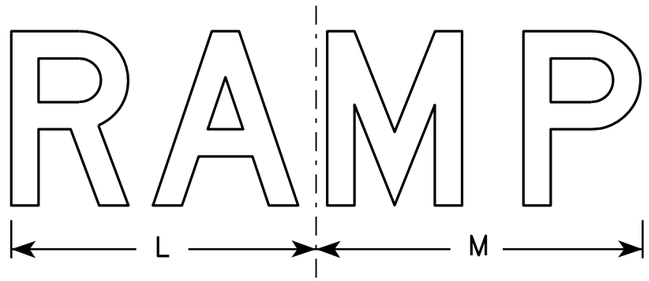
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 244 | E



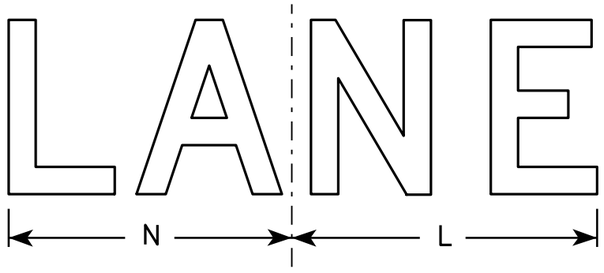
R11-2

NOTES

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



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

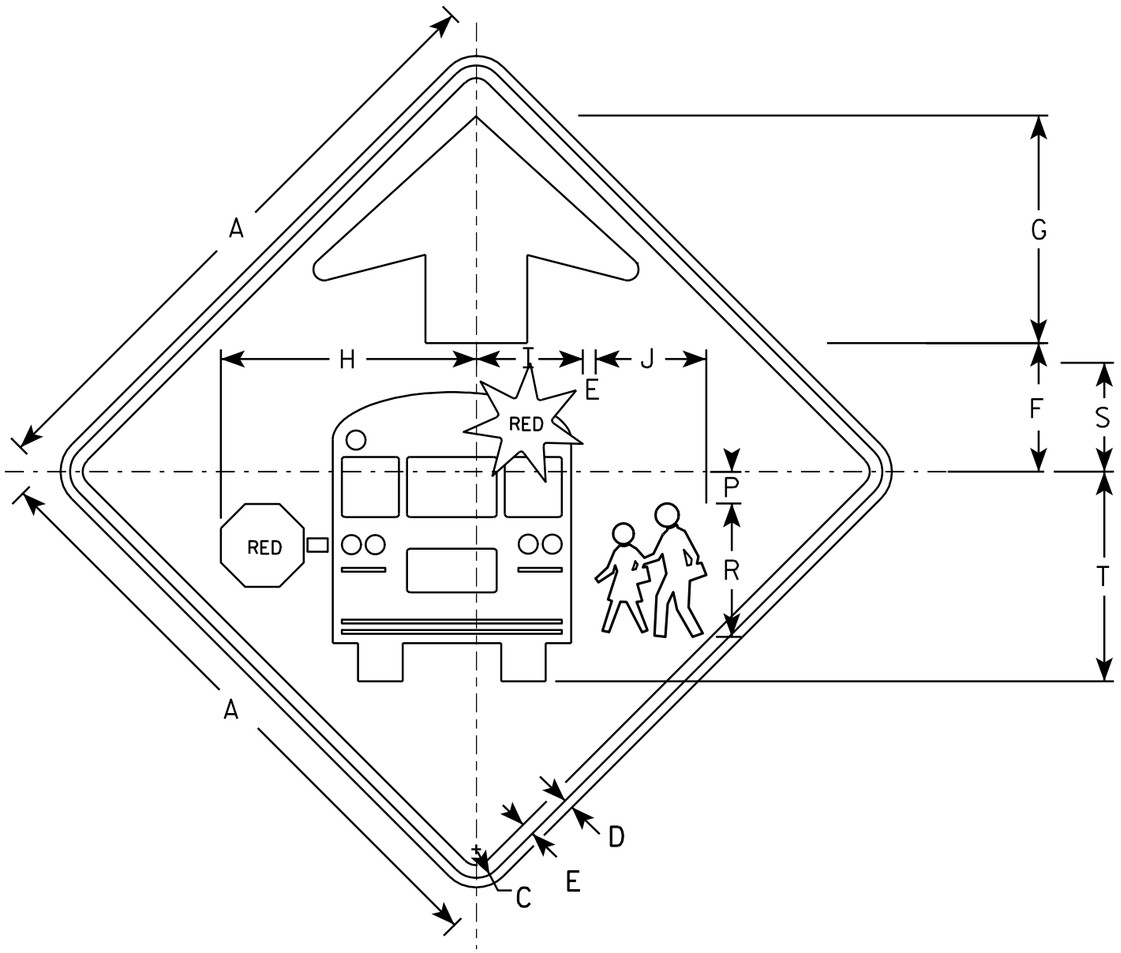
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

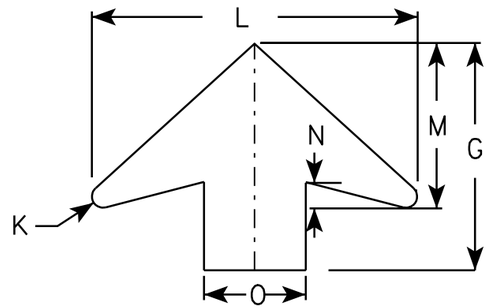
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 245	E



S3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW-GREEN
   Message - BLACK except as noted
   Circles except PEDS- RED BACKGROUND
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	12 1/2	5 1/4	5 1/2	1/2	16	8	1 1/4	5	1 1/2		6 5/8	5 3/8	10 3/8							6.25
2	36		1 5/8	5/8	3/4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 5/8	6	1 7/8		7 7/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

STANDARD SIGN
S3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

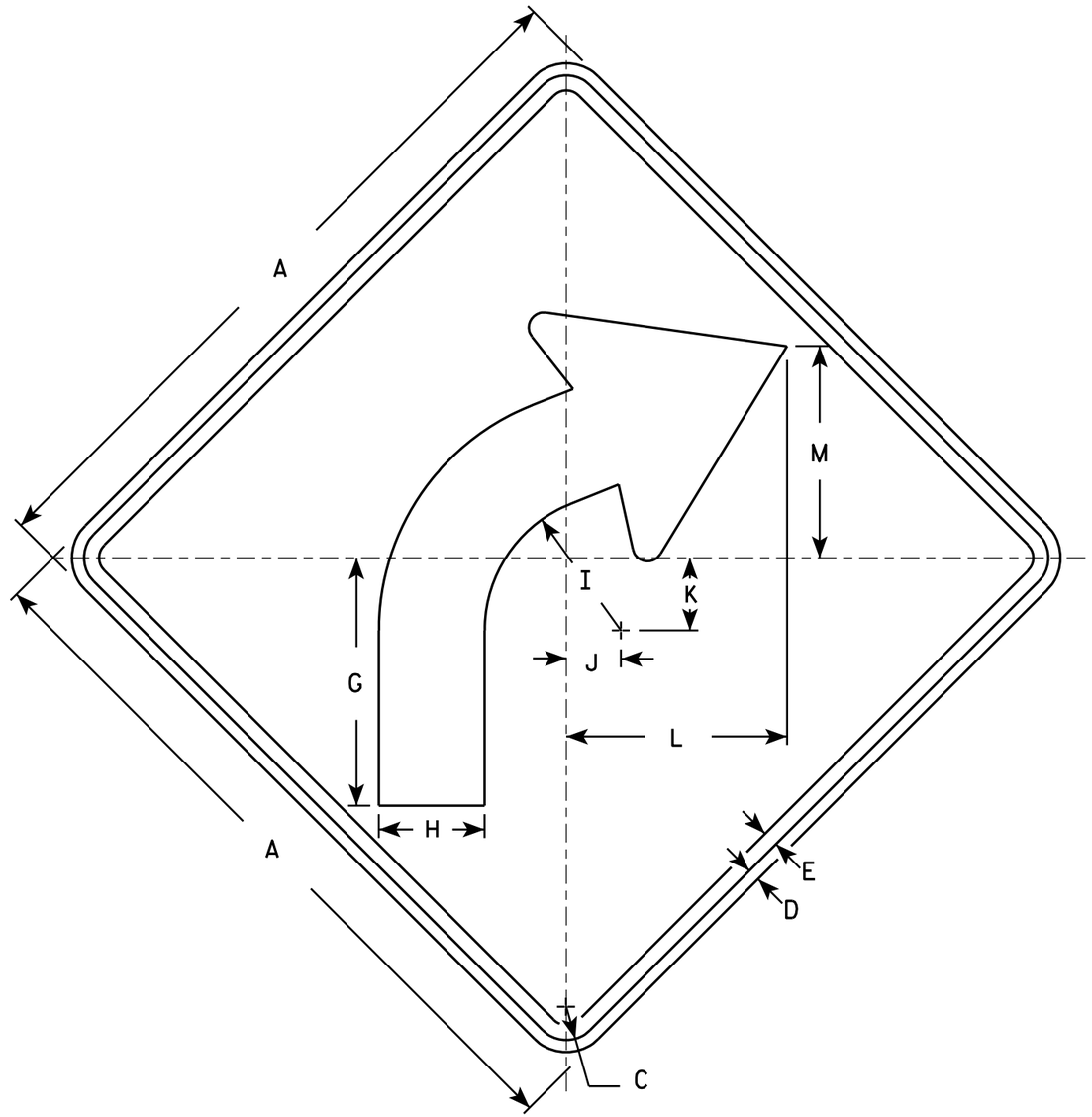
DATE 6/8/10 PLATE NO. S3-1.6

PROJECT NO:

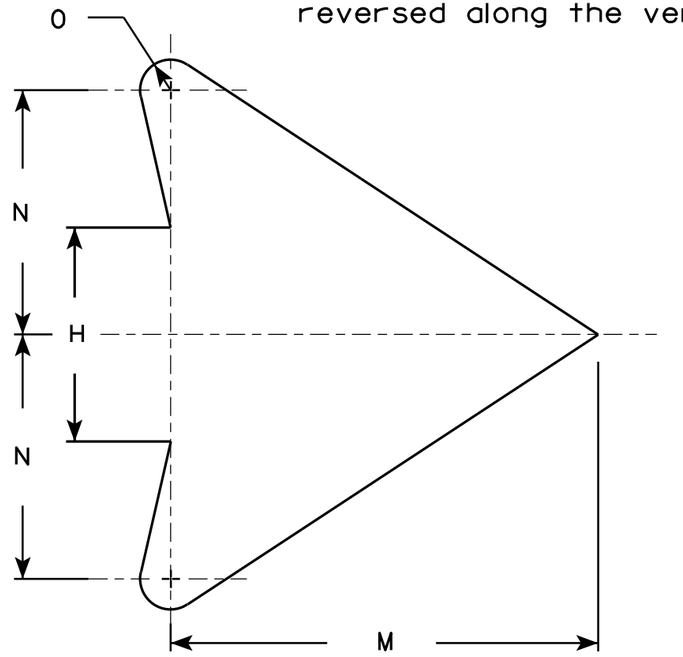
SHEET NO: 246 E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

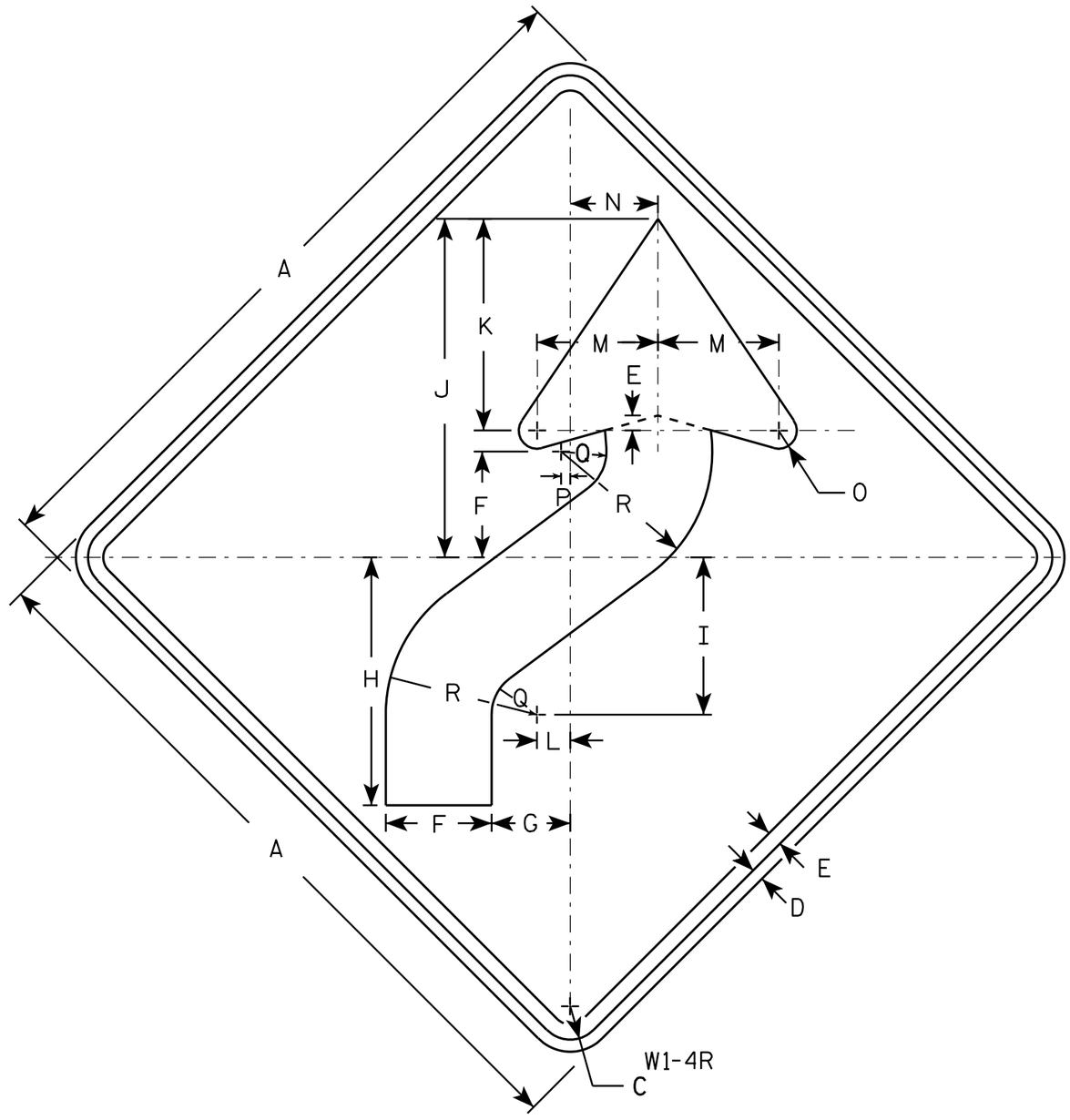
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 247	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. W1-4L 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

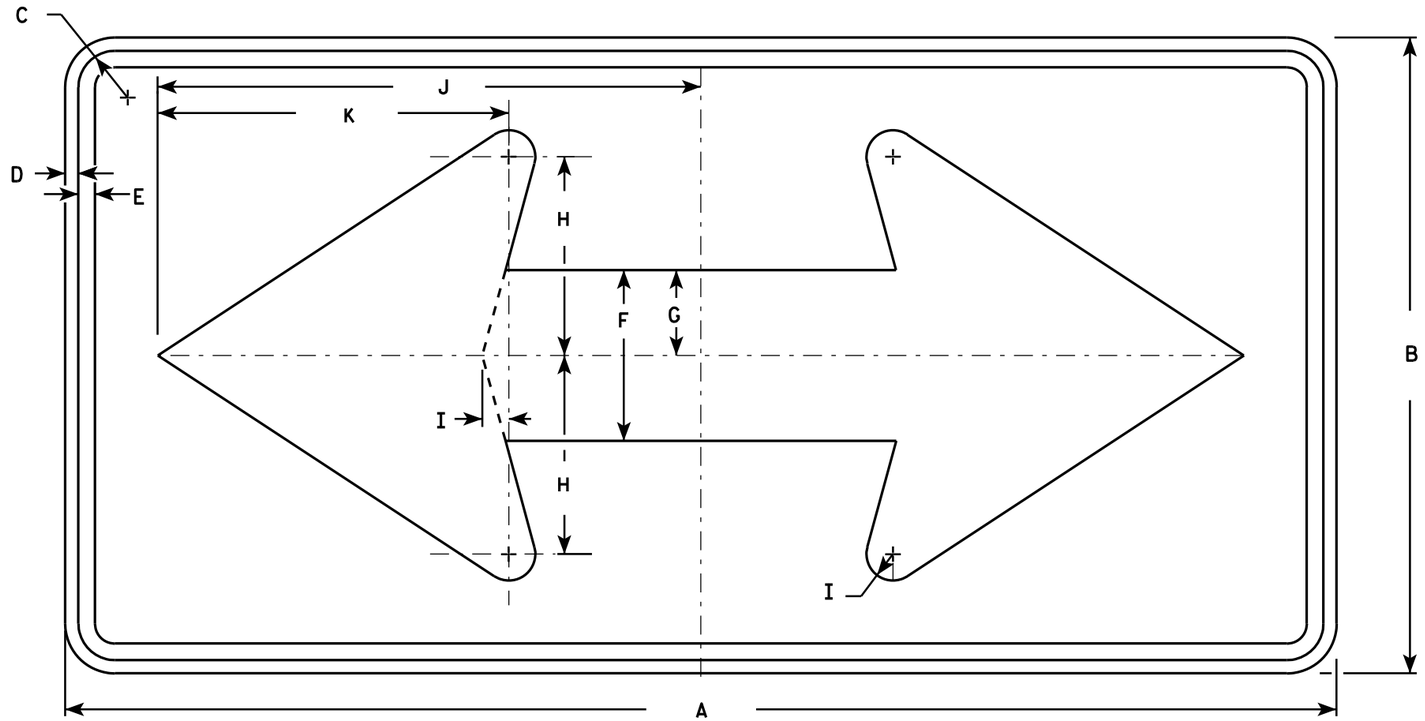
STANDARD SIGN
W1-4

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: 248 | E



W1-7

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

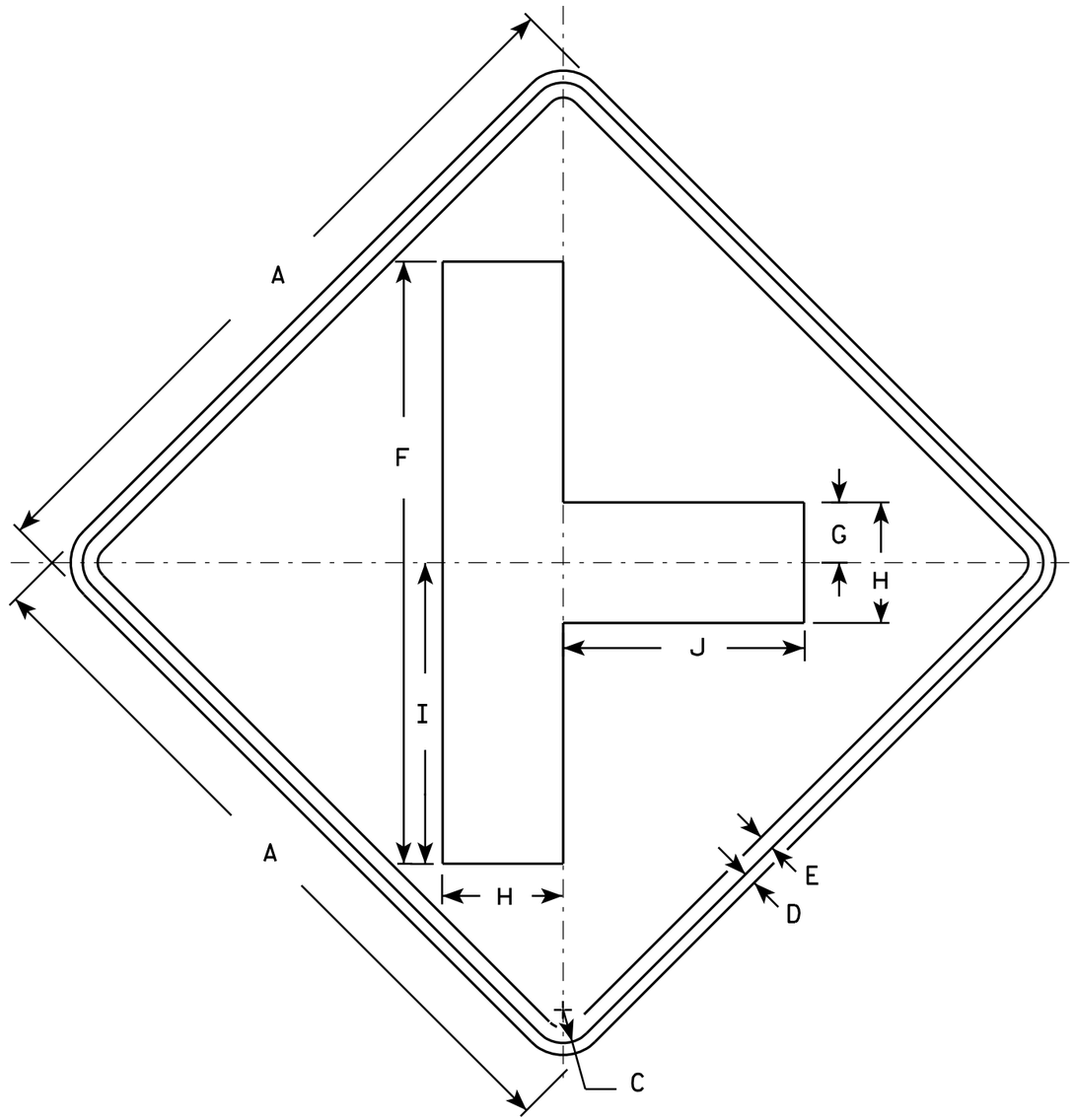
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 249 | E



W2-2

NOTES

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

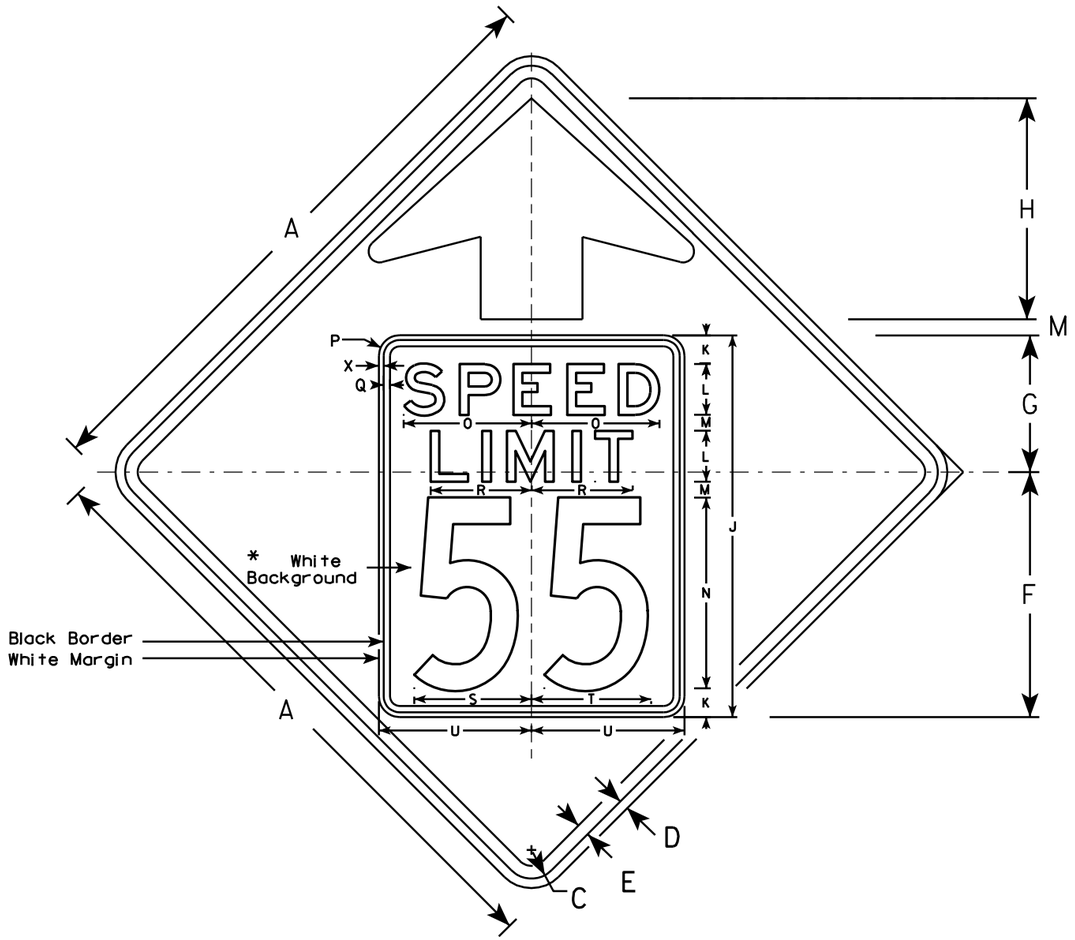
STANDARD SIGN
W2-2

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: 250	E

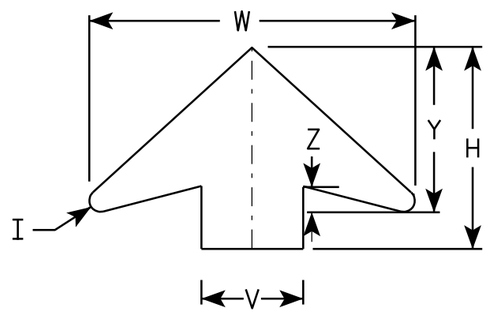


W3-5

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

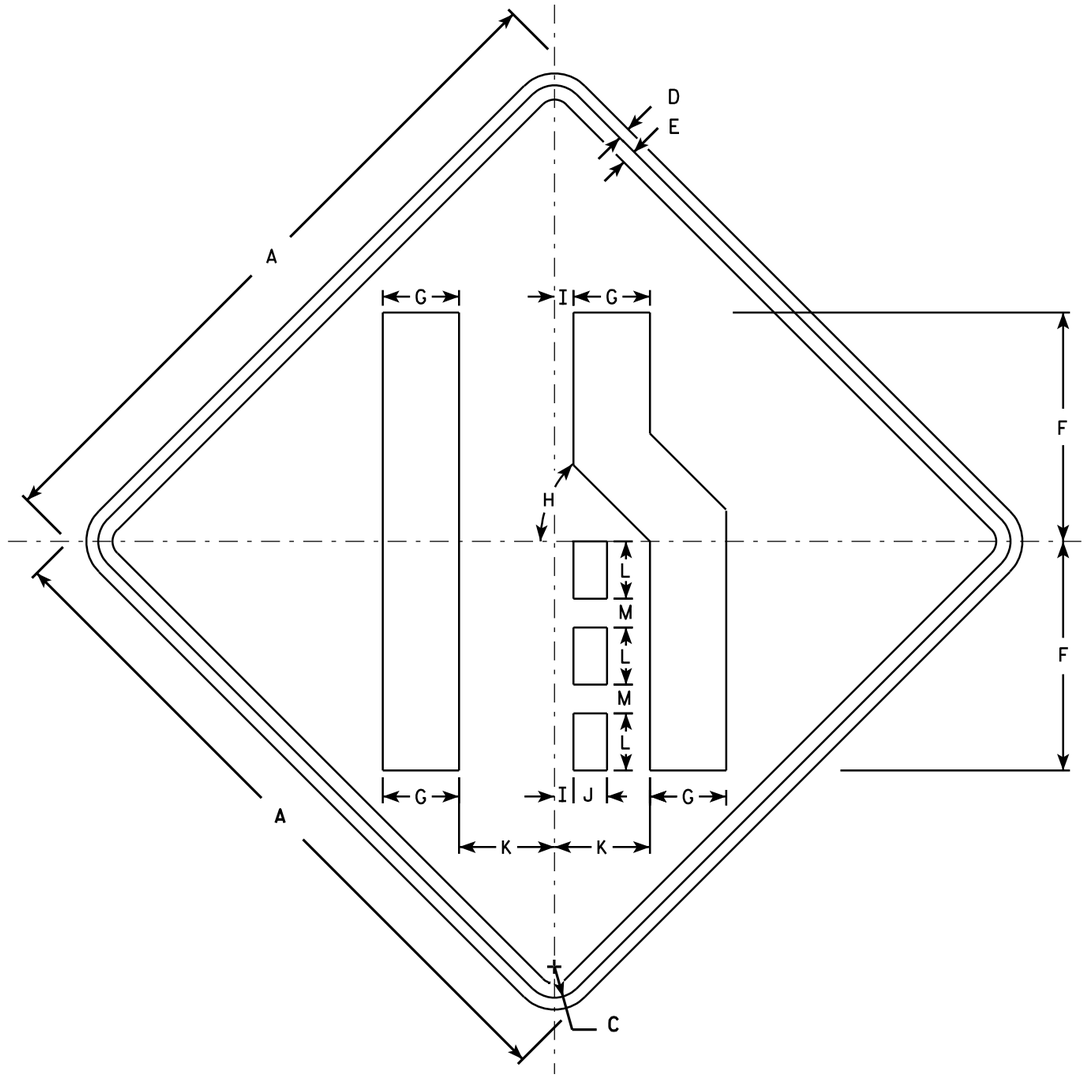
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 251 E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

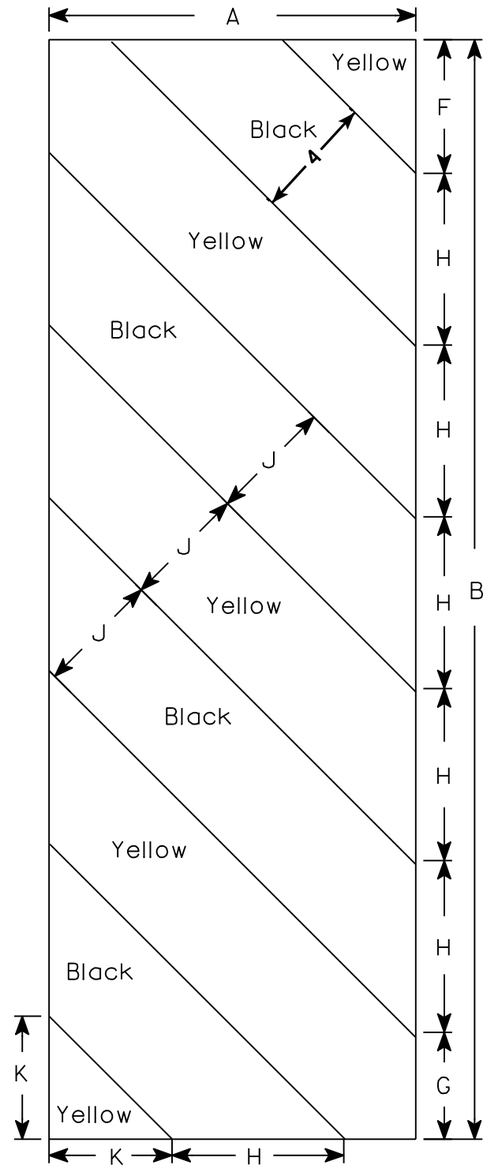
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

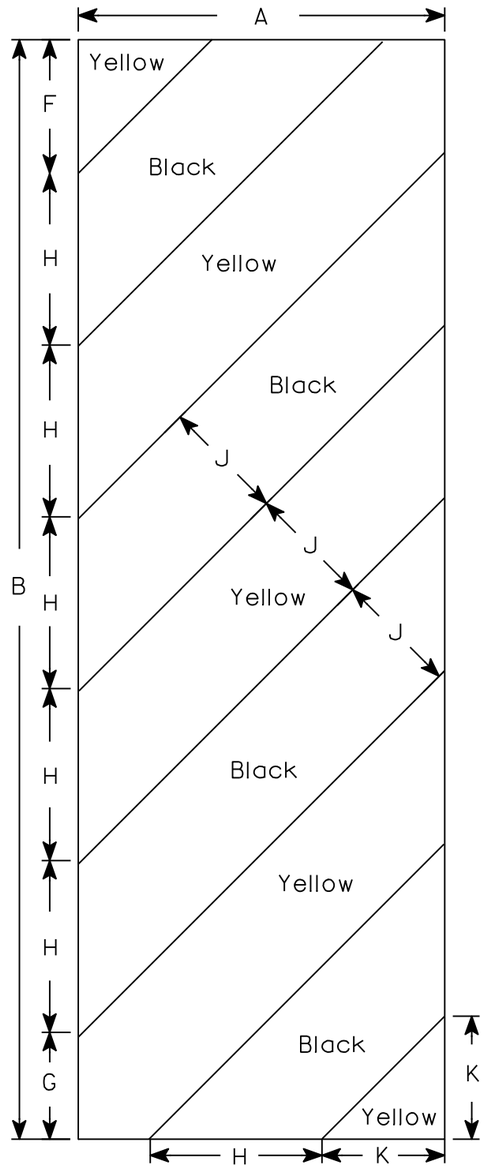
DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 252 E



W5-52L



W5-52R

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.

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	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

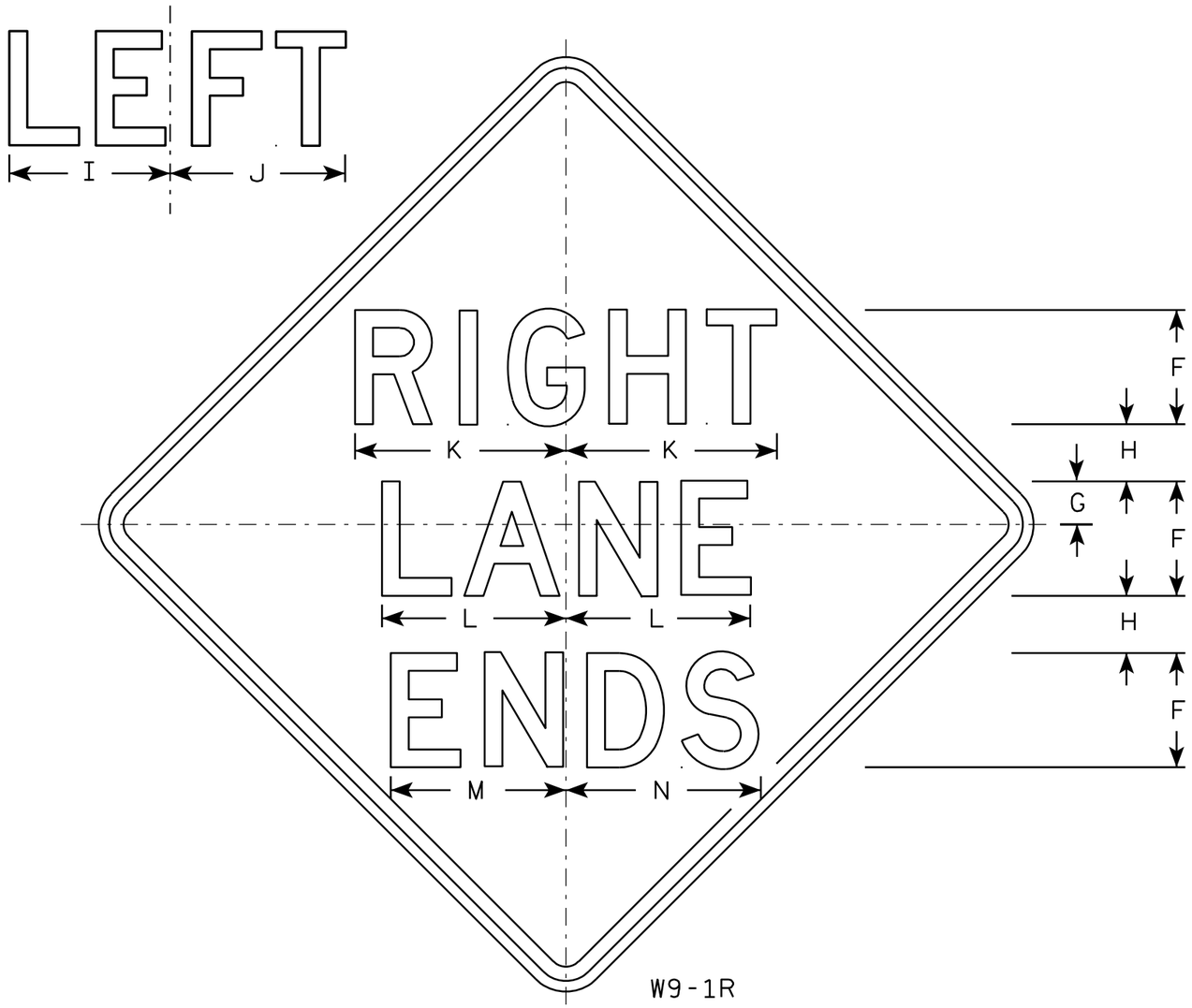
W5-52L & W5-52R

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: 253	E



W9-1R

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 - 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. W9-1L same as W9-1R except the word Left replaces 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	30		1 3/8	1/2	5/8	5	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

STANDARD SIGN
W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 03/18/13 PLATE NO. W9-1.8

PROJECT NO:

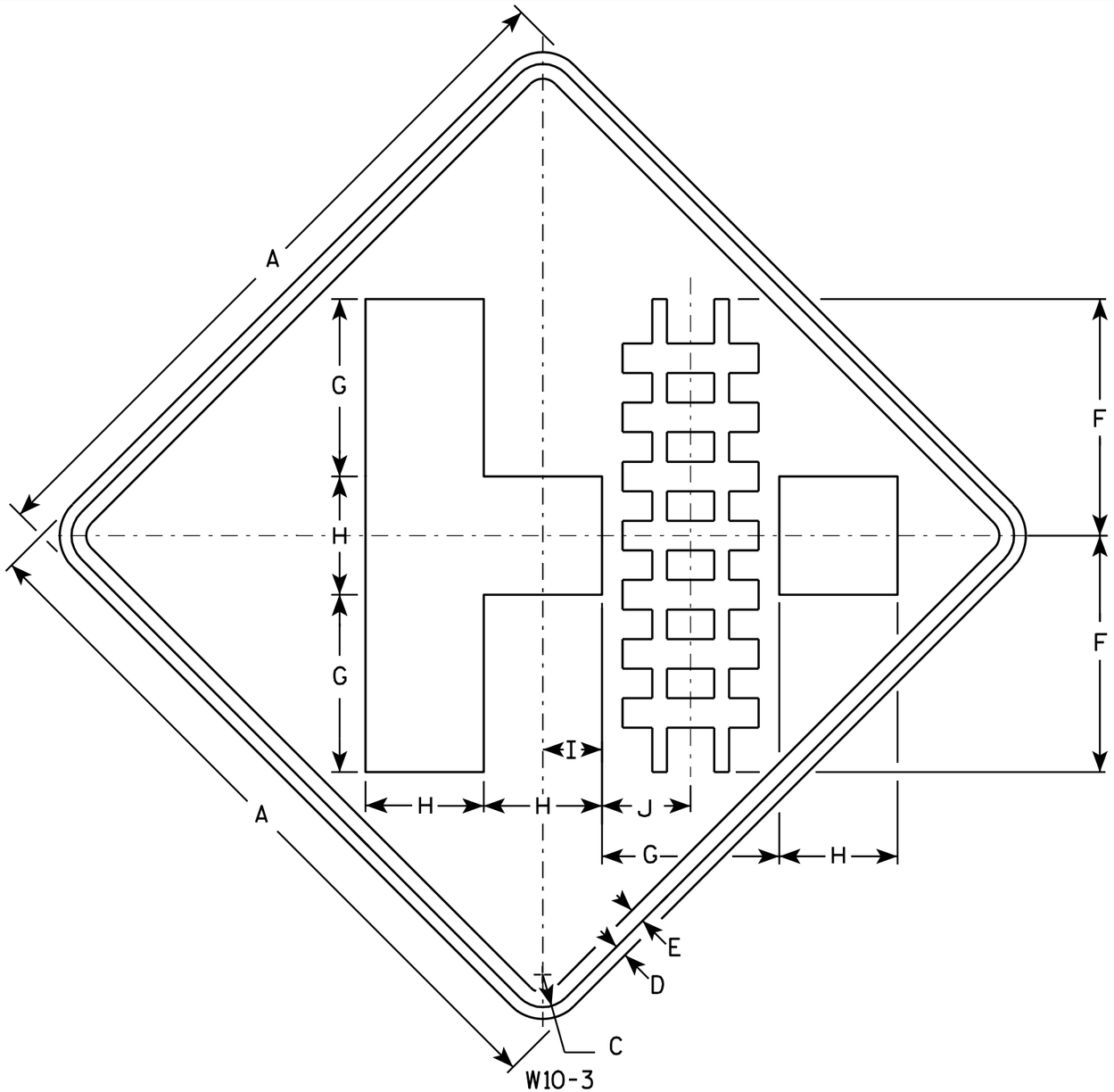
SHEET NO: 254 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W91.DGN PLOT DATE : 18-MAR-2013 11:42 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

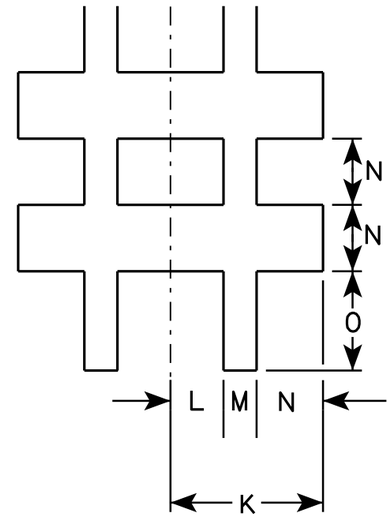
7

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



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	7 1/2	5	2 1/2	3 3/4	2 7/8	1	5/8	1 1/4	1 7/8												6.25
2S	36		1 5/8	5/8	3/4	12	9	6	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
2M	36		1 5/8	5/8	3/4	12	9	6	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
3	36		1 5/8	5/8	3/4	12	9	6	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
4	48		2 1/4	3/4	1	16	12	8	4	6	4 1/2	1 1/2	1	2	3												16.0
5																											

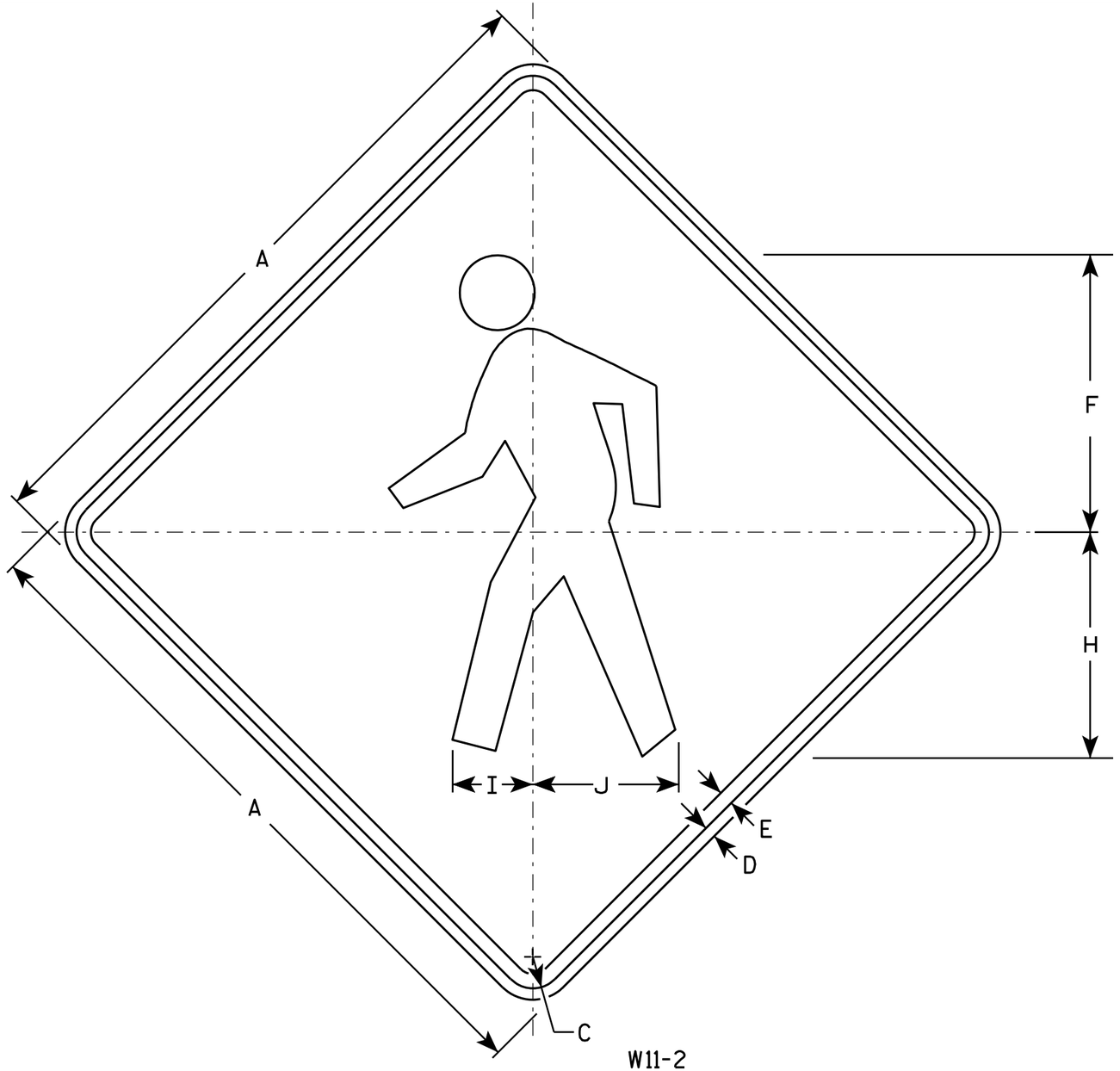
STANDARD SIGN
W10-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W10-3.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 255 | E



W11-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

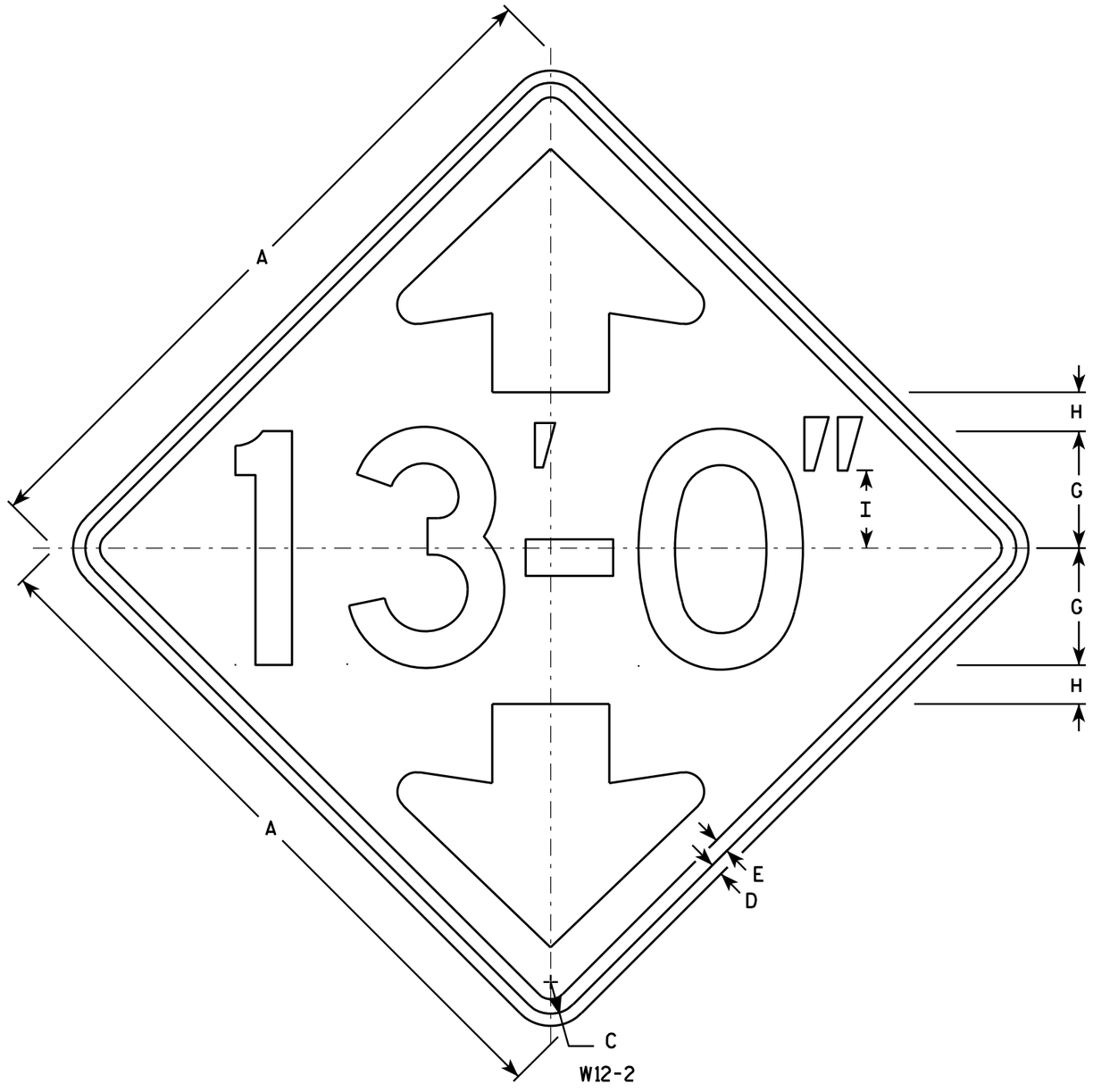
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W11-2.7

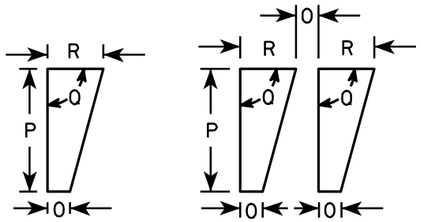
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 256	E



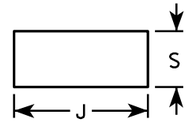
NOTES

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 - 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. Substitute appropriate numerals and optically adjust spacing of numerals, hyphen, foot & inch marks to achieve proper balance.

Arrow Detail



Foot Mark & Inch Mark Detail



Hyphen 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		5	1 5/8	3 3/8	3 3/4	6 5/8	5 3/4	3/4	2 1/2	1/2	2 1/4	90°	1	1 5/8								6.25
2S	36		1 5/8	5/8	3/4		6	2	4	4 1/2	8	6 7/8	1	3	1/2	2 3/4	90°	1 1/4	1 7/8								9.00
2M	36		1 5/8	5/8	3/4		6	2	4	4 1/2	8	6 7/8	1	3	1/2	2 3/4	90°	1 1/4	1 7/8								9.00
3	36		1 5/8	5/8	3/4		6	2	4	4 1/2	8	6 7/8	1	3	1/2	2 3/4	90°	1 1/4	1 7/8								9.00
4	36		1 5/8	5/8	3/4		6	2	4	4 1/2	8	6 7/8	1	3	1/2	2 3/4	90°	1 1/4	1 7/8								9.00
5	48		2 1/4	3/4	1		8	2 5/8	5 1/2	5 7/8	10 5/8	9 1/4	1 3/8	4	5/8	3 5/8	90°	1 5/8	2 1/2								16.00

STANDARD SIGN
W12-2

WISCONSIN DEPT OF TRANSPORTATION

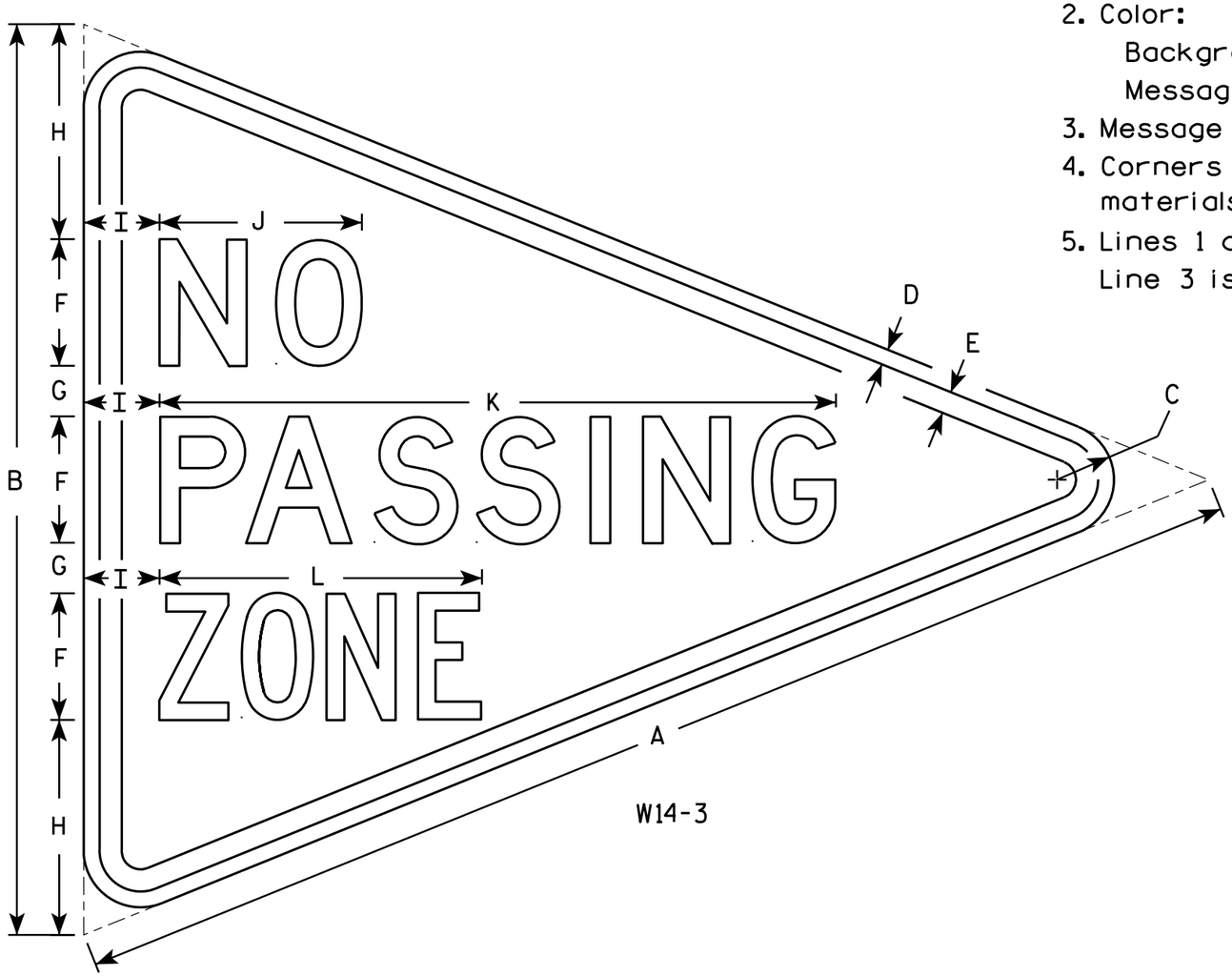
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-2.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 257	E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See note 5
4. Corners and borders shall be rounded on all base materials for this sign.
5. Lines 1 and 2 are Series D.
   Line 3 is series C.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

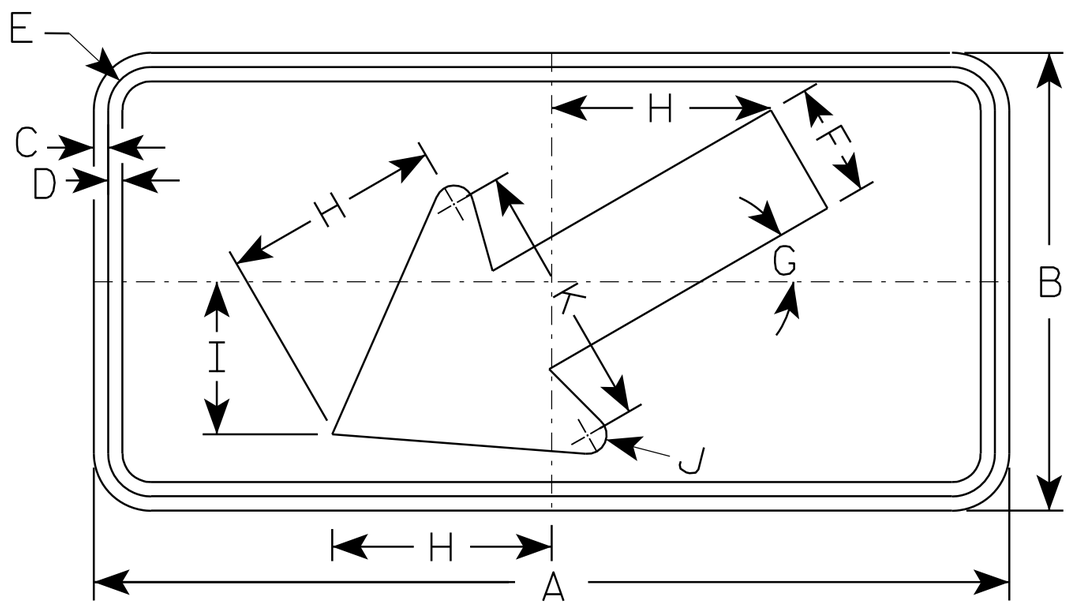
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 258	E



W16-7L

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   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. W16-7R is the same as W16-L 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																											
2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4																											8
5																											8

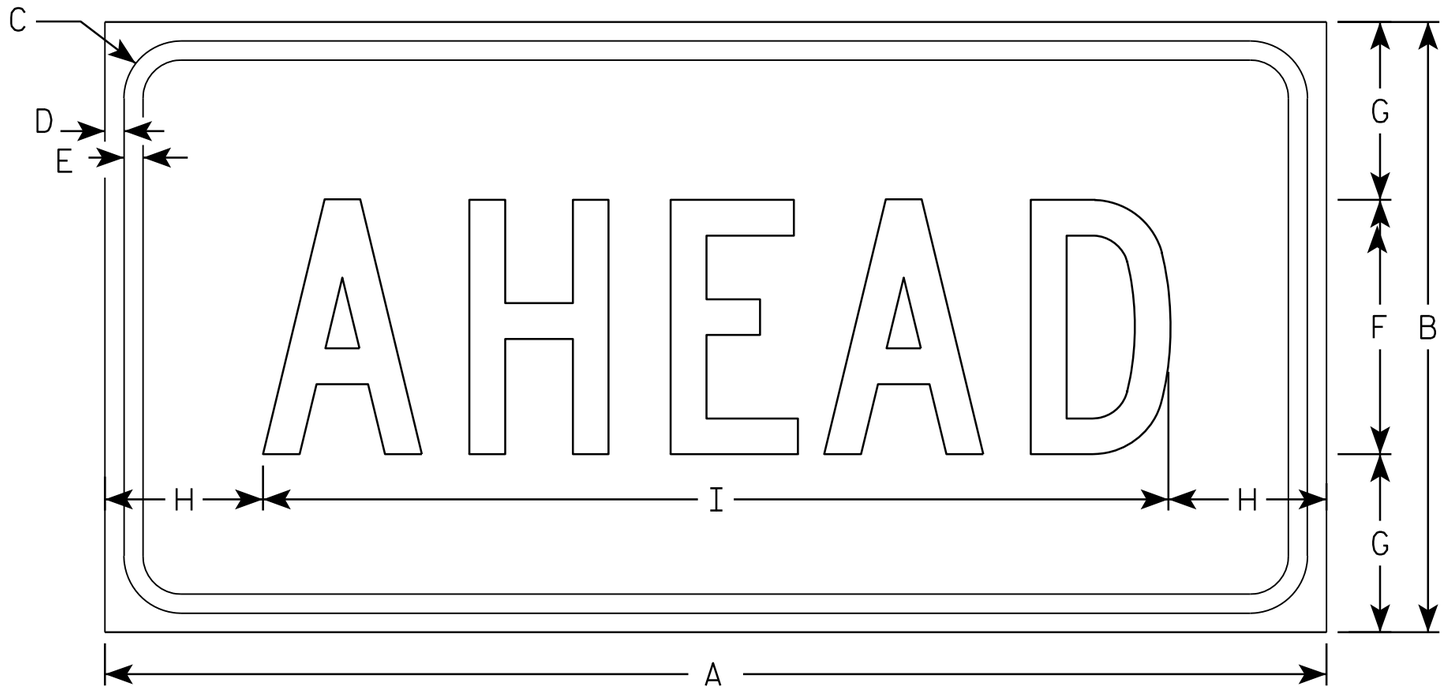
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. W16-7.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 259	E



W16-9P

NOTES

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

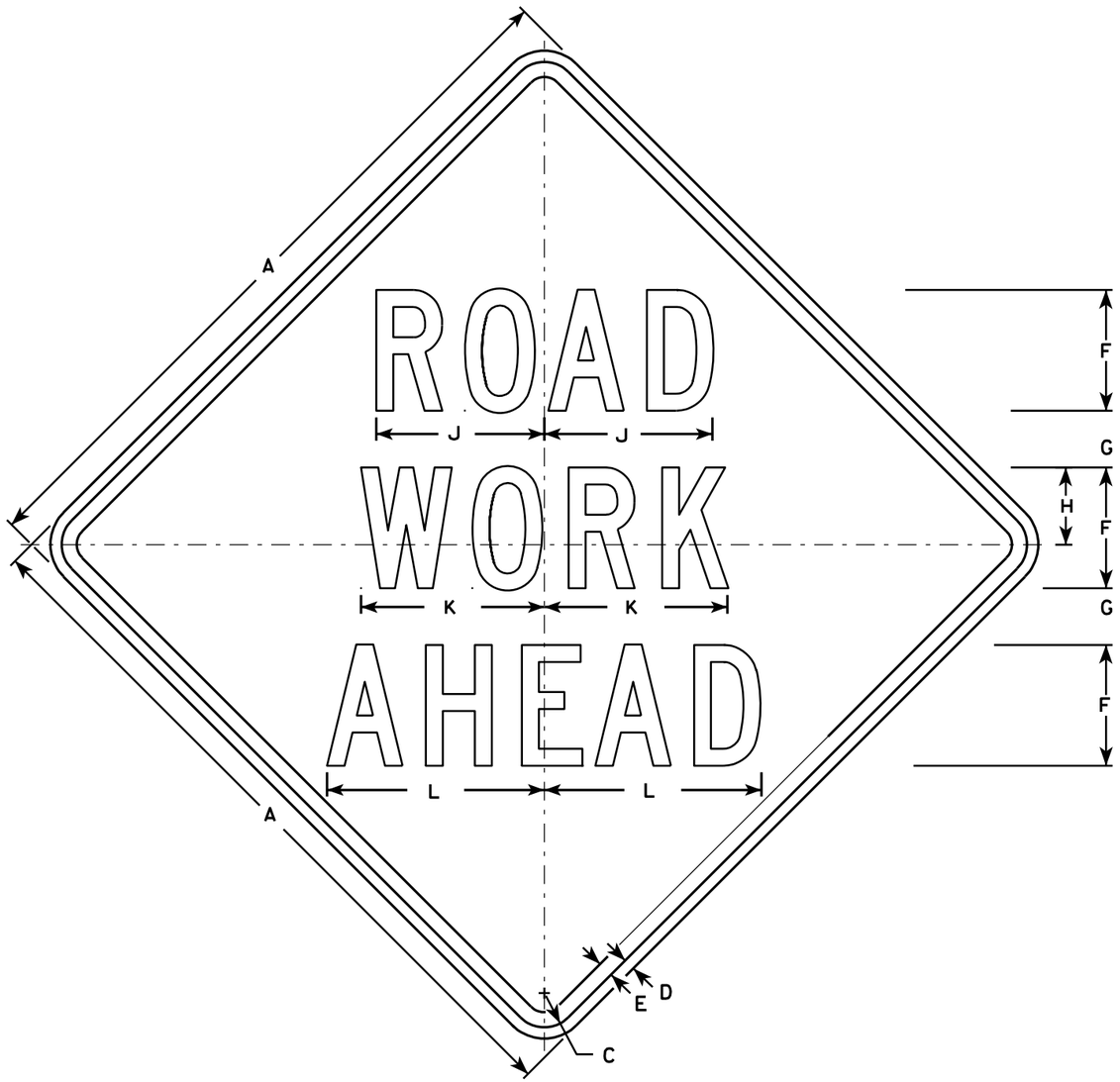
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

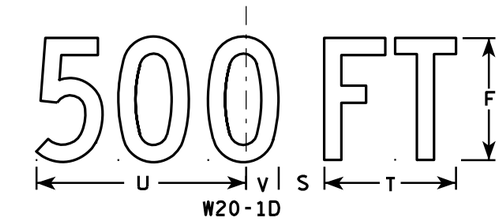
DATE 12/28/10 PLATE NO. W16-9P.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 260 | E

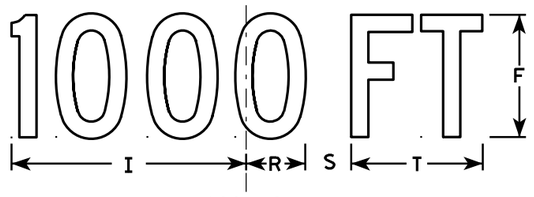
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W169P.DGN PLOT DATE : 28-DEC-2010 13:39 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 2.979524:1.000000
WISDOT/CADDS SHEET 42



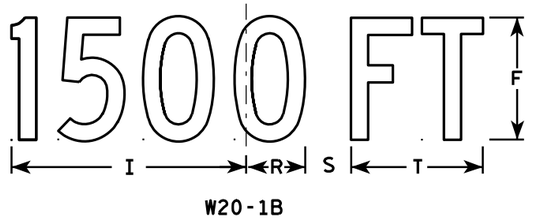
W20-1A



W20-1D



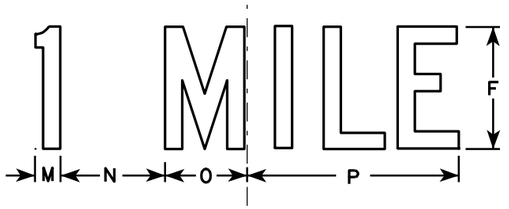
W20-1C



W20-1B



W20-1G



W20-1F

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.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	1 7/8	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-1.9

PROJECT NO:

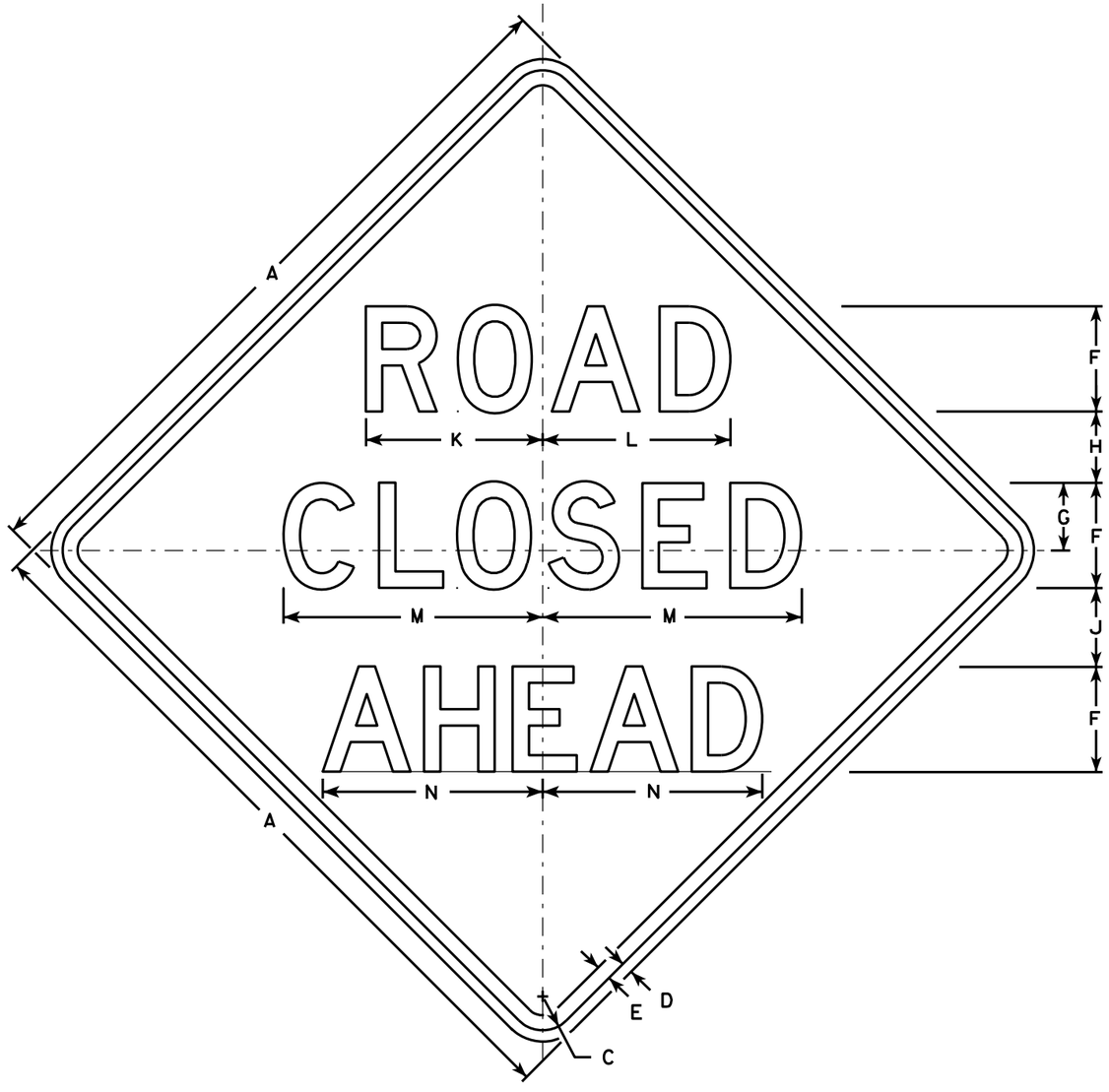
SHEET NO: 261 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W201.DGN PLOT DATE : 18-MAR-2011 09:56 PLOT BY : mscj9h

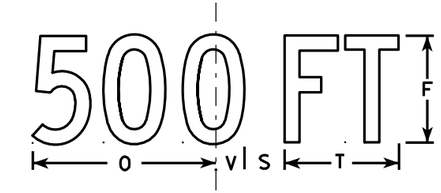
WISDOT/CADDS SHEET 42

7

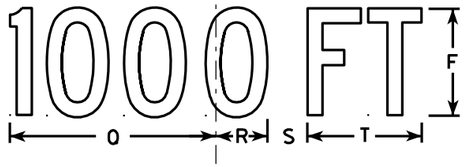
7



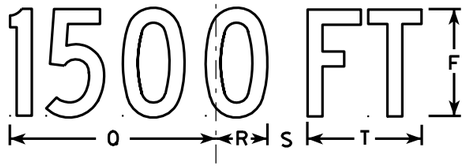
W20-3A



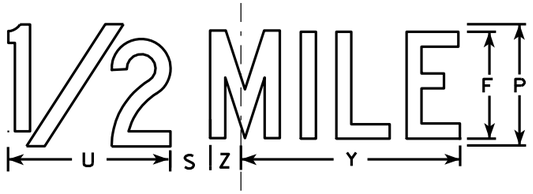
W20-3D



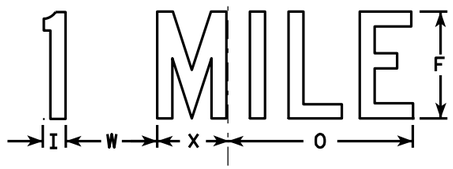
W20-3C



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.

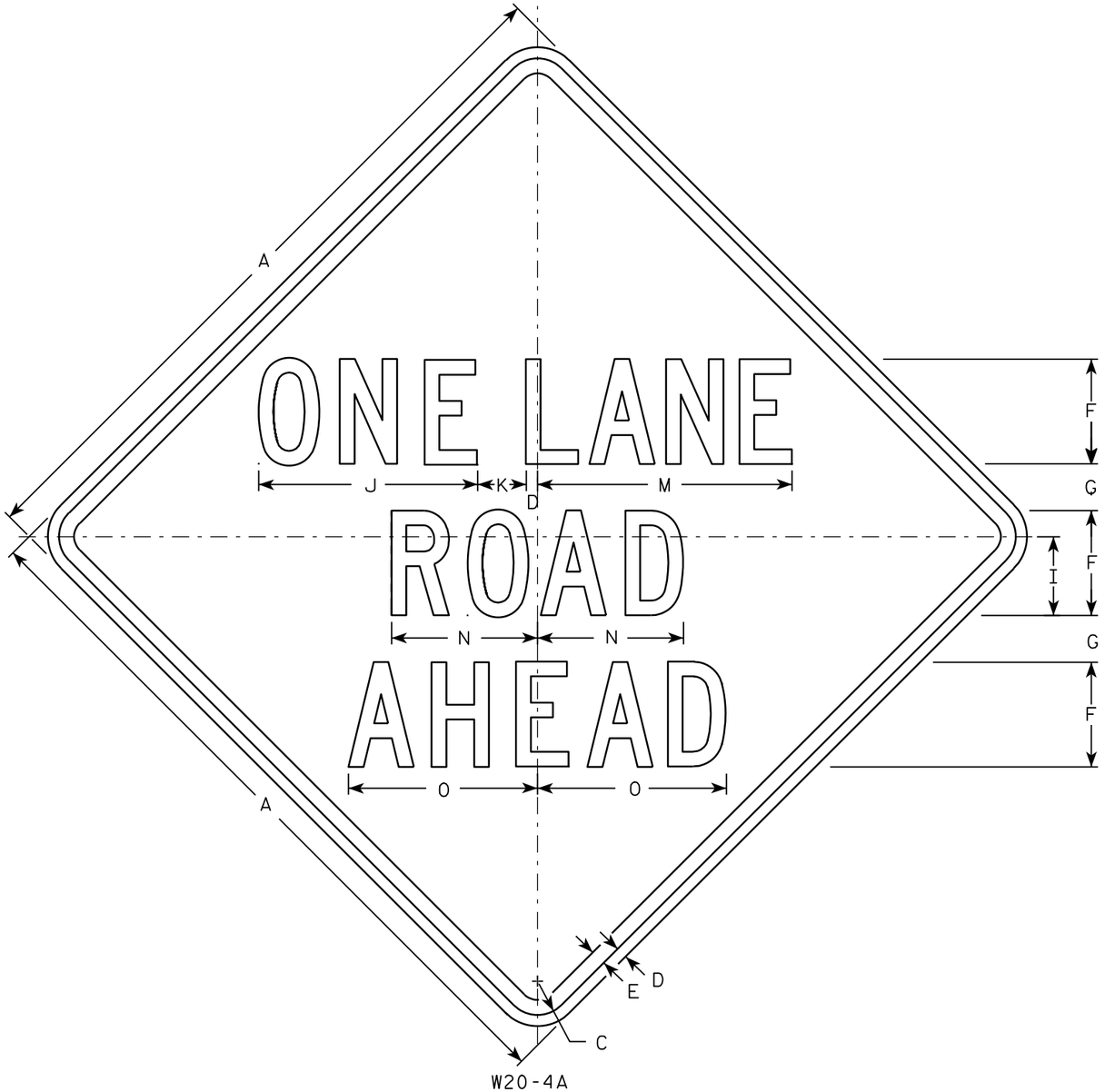
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2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

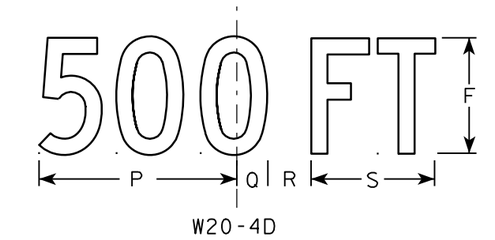
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

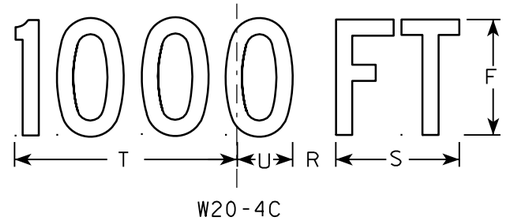
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 262 | E



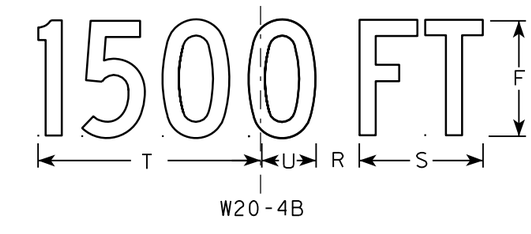
W20-4A



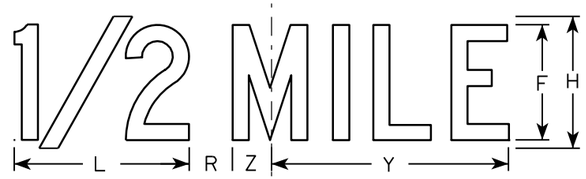
W20-4D



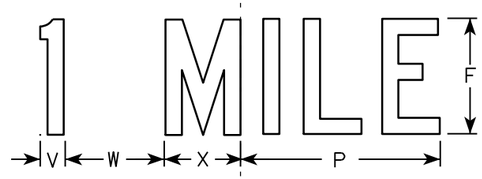
W20-4C



W20-4B



W20-4G



W20-4F

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.

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	2 3/8	6	3 3/4	10 3/8	2 3/8	8	13 1/2	7	8 7/8	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	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	3 1/8	8	5 1/4	14 5/8	3 1/4	10 5/8	17 3/4	9 3/4	12 5/8	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-4A, B, C, D, F & G

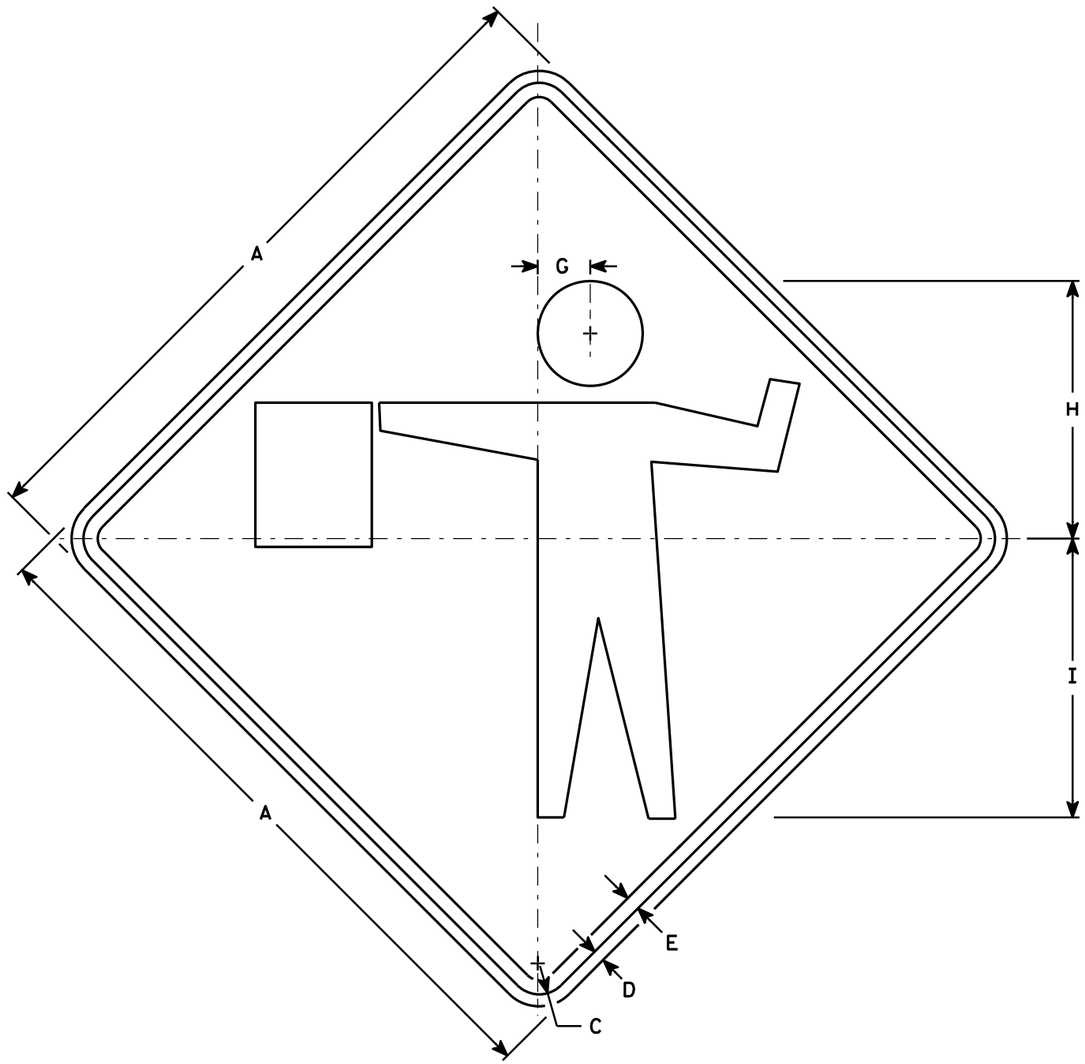
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-4.9

PROJECT NO:

SHEET NO: 263 E



W20-7A

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		2 3/4	13 1/2	14 5/8																		9.00
2S	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
2M	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
3	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
4	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
5	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00

STANDARD SIGN
W20-7A

WISCONSIN DEPT OF TRANSPORTATION

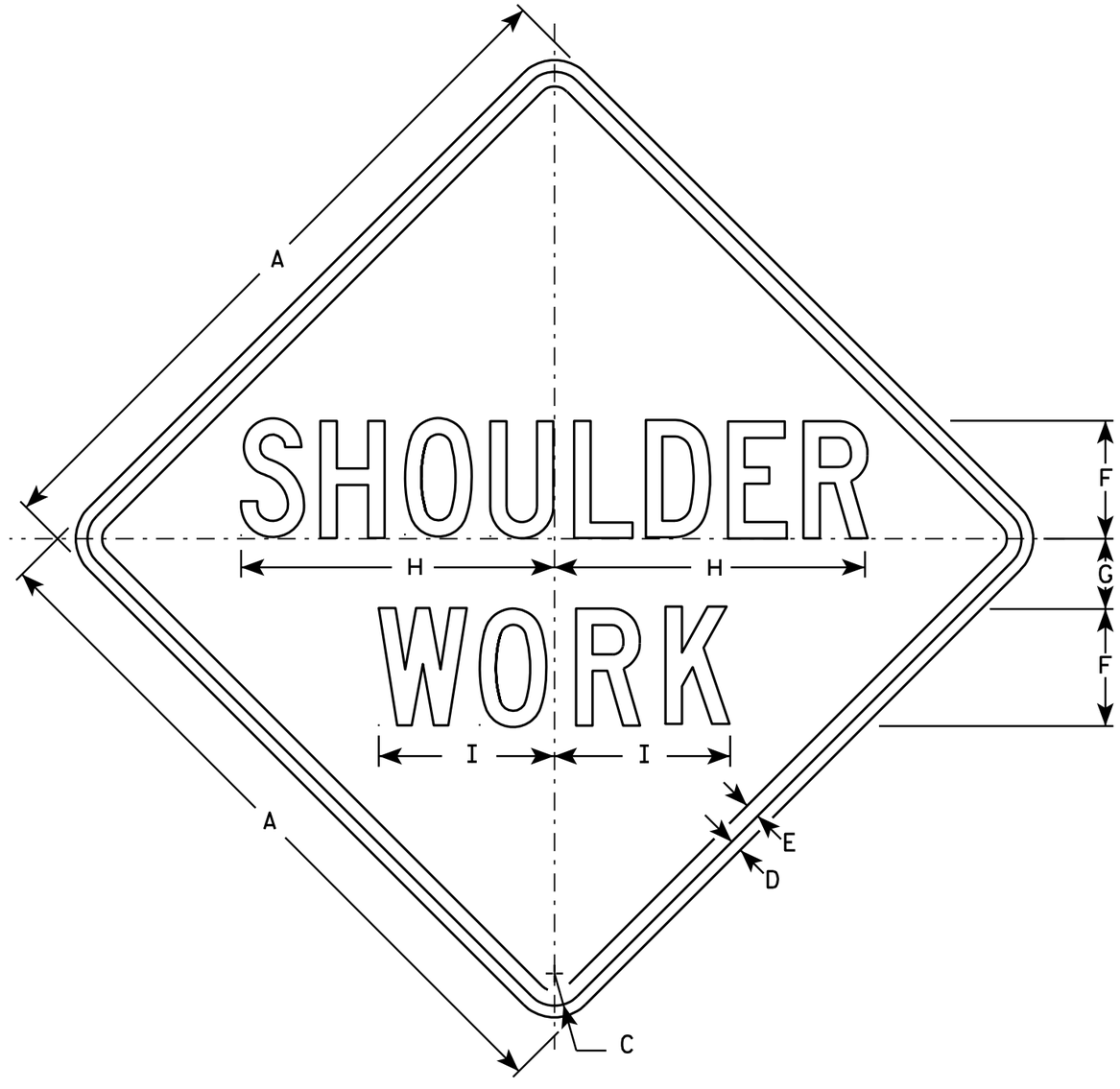
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-7A.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 264 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W207A.DGN PLOT DATE : 18-MAR-2011 13:14 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 7.945391:1.000000 WISDOT/CADDS SHEET 42



W21-5

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4	2 1/2	10 3/4	6																		4.0
2S	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3 1/2	16	9																		9.0
4	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
5	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0

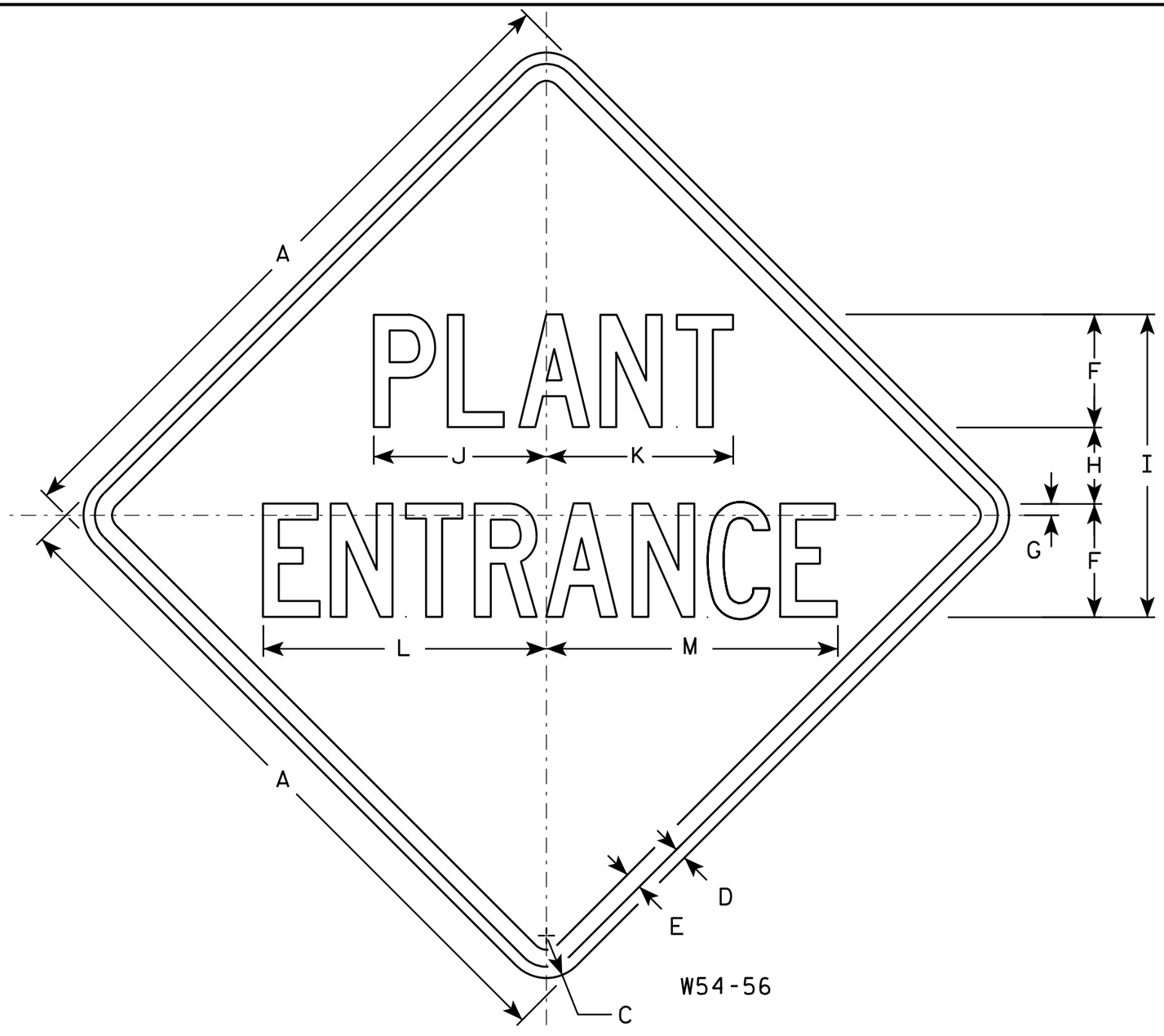
STANDARD SIGN
W21-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-5.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 265	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 - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4	3/8	2 3/4	10 3/4	6 1/8	6 5/8	10	10 3/8														4.00
2S	30		1 3/8	1/2	5/8	5	1/2	3 3/8	13 3/8	7 5/8	8 1/4	12 1/2	12 7/8														6.25
2M	36		1 5/8	5/8	3/4	6	5/8	4 1/8	16 1/8	9 1/8	9 7/8	15	15 3/8														9.00
3	36		1 5/8	5/8	3/4	6	5/8	4 1/8	16 1/8	9 1/8	9 7/8	15	15 3/8														9.00
4																											
5																											

STANDARD SIGN
W54-56

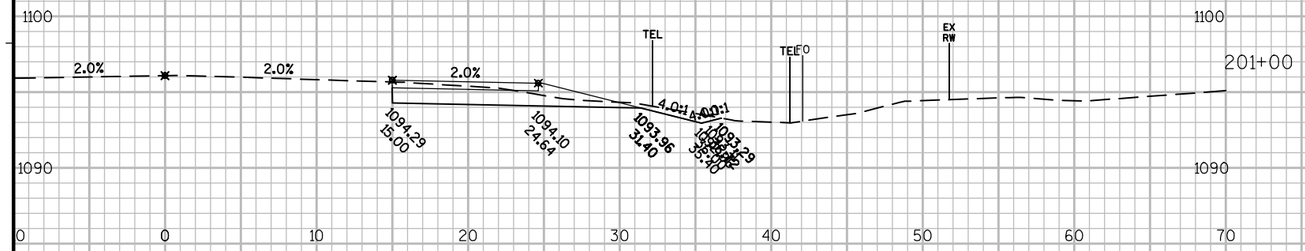
WISCONSIN DEPT OF TRANSPORTATION

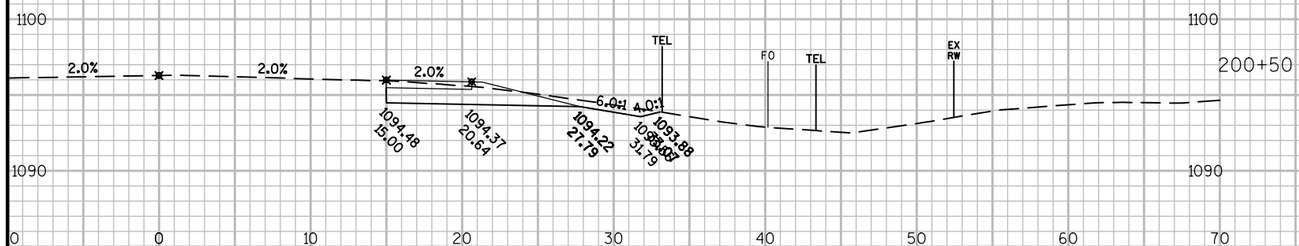
APPROVED Matthew R Rauch
for State Traffic Engineer

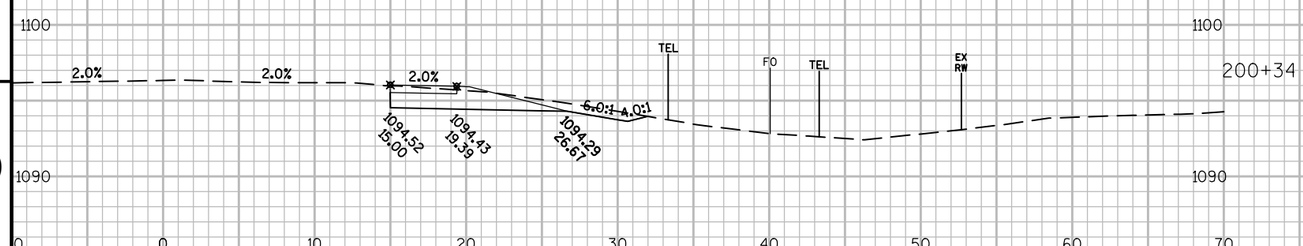
DATE 3/13/13 PLATE NO. W54-56.8

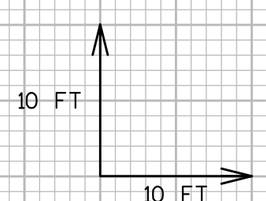
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 266	E

				EARTHWORK VOLUMES													
				205.0100 - COMMON						FILL = 208.1100 SELECT BORROW							
STATION OR SIDE ROAD	DISTANCE	INCR. VOL. LEFT	INCR. VOL. RIGHT	INCR. VOL. LT & RT	AVG. END AREA	INCREMEN-TAL VOLUME	ADJ. VOL.	FACTOR	CUMULATIVE TOTAL	INCR. VOL. LEFT	INCR. VOL. RIGHT	INCR. VOL. RT & LT	AVG. END AREA	INCRIMEN-TAL VOLUME	ADJ. VOL.	FACTOR	CUMULATIVE TOTAL
UNITS	LF	SF	SF	CY	SF	CY	CY		CY	SF	SF	CY	SF	CY	CY		CY
EBS AREA																	
678+60.0																	
	####			156.0			156.0	1.00	156			62			78	1.25	78
679+70.0																	
FILL 742 RIGHT																	
742+00.0		0.00	0.00	0.0						0.00	0.00	0.0					
	50.0				0.5	0.9	0.9	1.00	1				6.0	11.1	13.9	1.25	14
742+50.0		0.00	1.00	1.0						0.00	12.00	12.0					
	50.0				1.0	1.9	1.9	1.00	3				12.0	22.2	27.8	1.25	42
743+00.0		0.00	1.00	1.0						0.00	12.00	12.0					
	####				1.0	3.7	3.7	1.00	6				24.0	88.9	111.1	1.25	153
744+00.0		0.00	1.00	1.0						0.00	36.00	36.0					
	####				1.0	3.7	3.7	1.00	10				34.5	127.8	159.7	1.25	313
745+00.0		0.00	1.00	1.0						0.00	33.00	33.0					
	####				1.0	3.7	3.7	1.00	14				24.1	89.3	111.6	1.25	424
746+00.0		0.00	1.0	1.0						0.00	15.2	15.2					
	####				1.0	3.7	3.7	1.00	18				20.1	74.4	93.1	1.25	517
747+00.0		0.00	1.00	1.0						0.00	25.00	25.0					
	####				1.0	3.7	3.7	1.00	21				15.5	57.4	71.8	1.25	589
748+00.0		0.00	1.00	1.0						0.00	6.00	6.0					
	50.0				0.5	0.9	0.9	1.00	22				3.0	5.6	6.9	1.25	596
748+50.0		0.00	0.00	0.0						0.00	0.00	0.0					
FILL 830																	
829+00.0		0.0	0.0	0.0						0.0	0.0	0.0					
	10.0				1.0	0.4	0.4	1.0	0				7	2.6	3.2	1.25	3
829+10.0		1.0	1.0	2.0						1.0	13.0	14.0					
	40.0				1.5	2.2	2.2	1.00	3				22	31.9	39.8	1.25	43
829+50.0		0.0	1.0	1.0						0.0	29.0	29.0					
	50.0				1.5	2.8	2.8	1.00	5				59	109.0	136.2	1.25	179
830+00.0		1.0	1.0	2.0						35.0	53.7	88.7					
	50.0				2.0	3.7	3.7	1.00	9				144	266.4	333.0	1.25	512
830+50.0		1.0	1.0	2.0						105.0	94.0	199.0					
	50.0				1.0	1.9	1.9	1.00	11				176	325.0	406.3	1.25	919
831+00.0		0.0	0.0	0.0						79.0	73.0	152.0					
	50.0				1.0	1.9	1.9	1.00	13				101	186.1	232.6	1.25	1151
831+50.0		1.0	1.0	2.0						23.0	26.0	49.0					
	50.0				2.0	3.7	3.7	1.00	16				35	63.9	79.9	1.25	1231
832+00.0		1.0	1.0	2.0						7.0	13.0	20.0					
	50.0				2.0	3.7	3.7	1.00	20				14	25.0	31.3	1.25	1262
832+50.0		1.0	1.0	2.0						1.0	6.0	7.0					
	50.0				1.5	2.8	2.8	1.00	23				4	6.5	8.1	1.25	1270
833+00.0		1.0	0.0	1.0						0.0	0.0	0.0					
	TOTALS								201								1944









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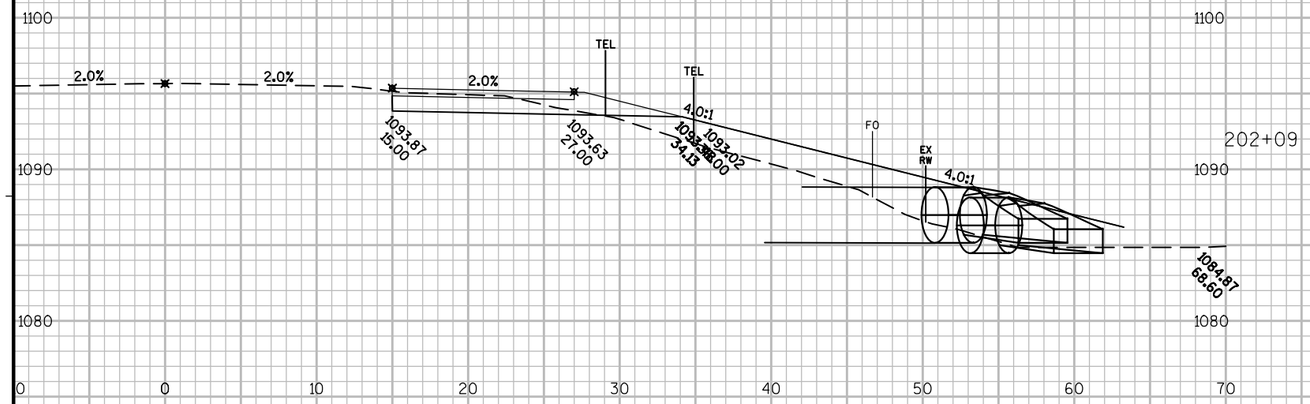
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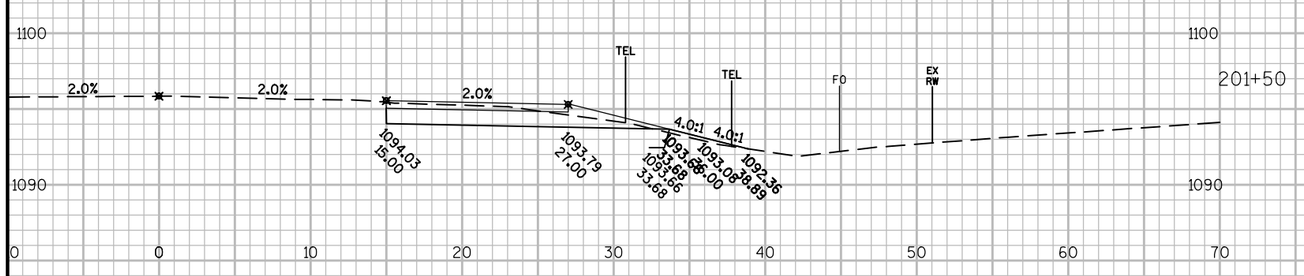
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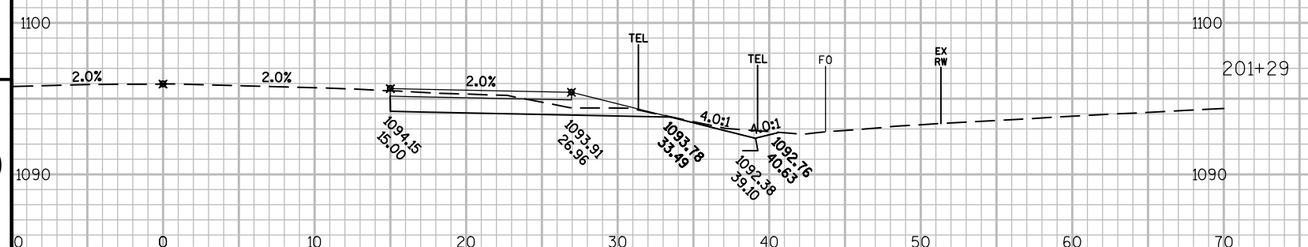
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LAYOUT NAME - SECTION SHEET - (19)

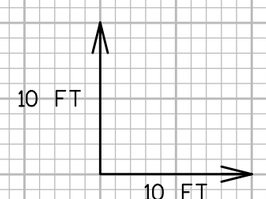
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WISDOT/CADDS SHEET 49









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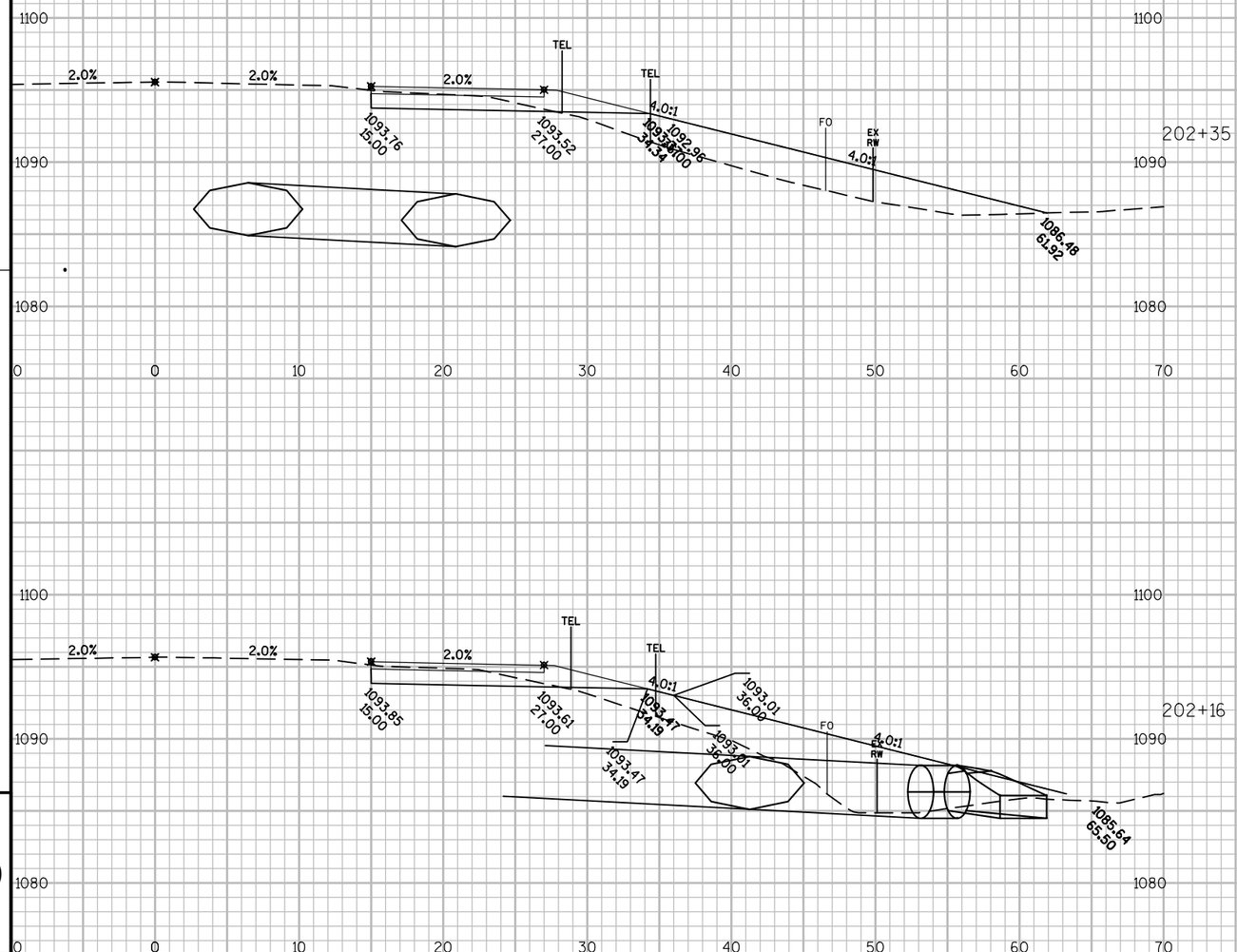
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LAYOUT NAME - SECTION SHEET - (20)

PLOT DATE : 2/16/2015 2:51 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



10 FT

10 FT

9

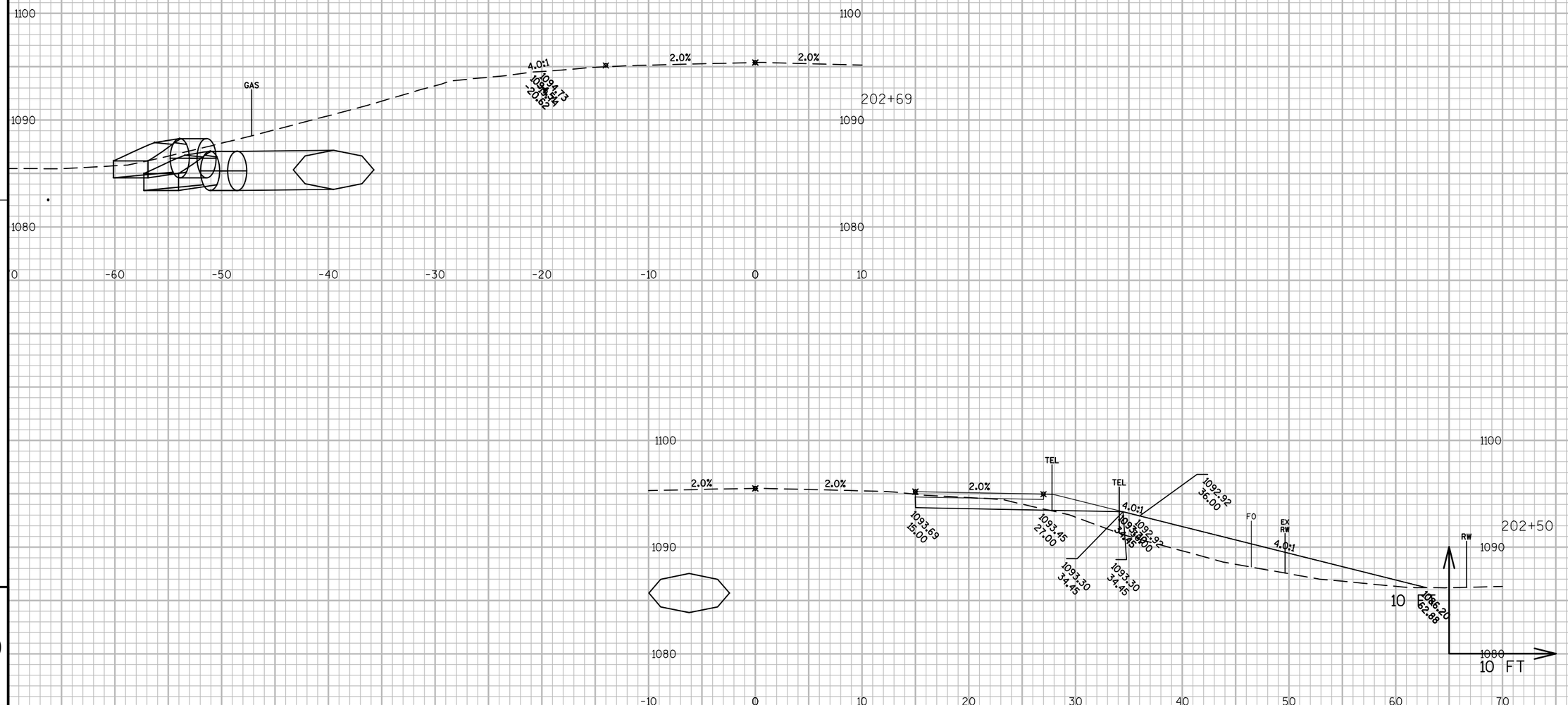
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LAYOUT NAME - SECTION SHEET - (21)

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WISDOT/CADDS SHEET 49

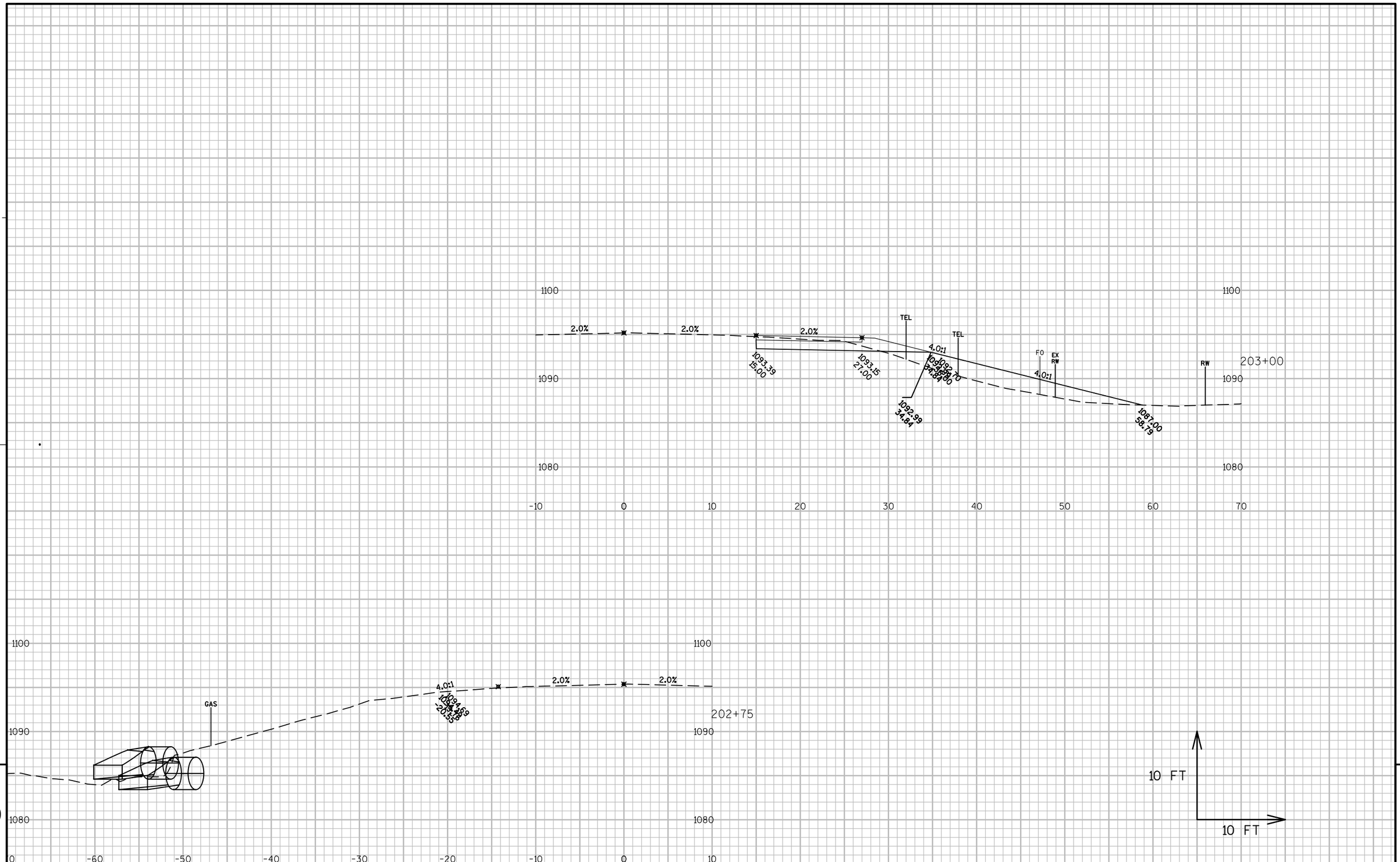


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WISDOT/CADDS SHEET 49



9

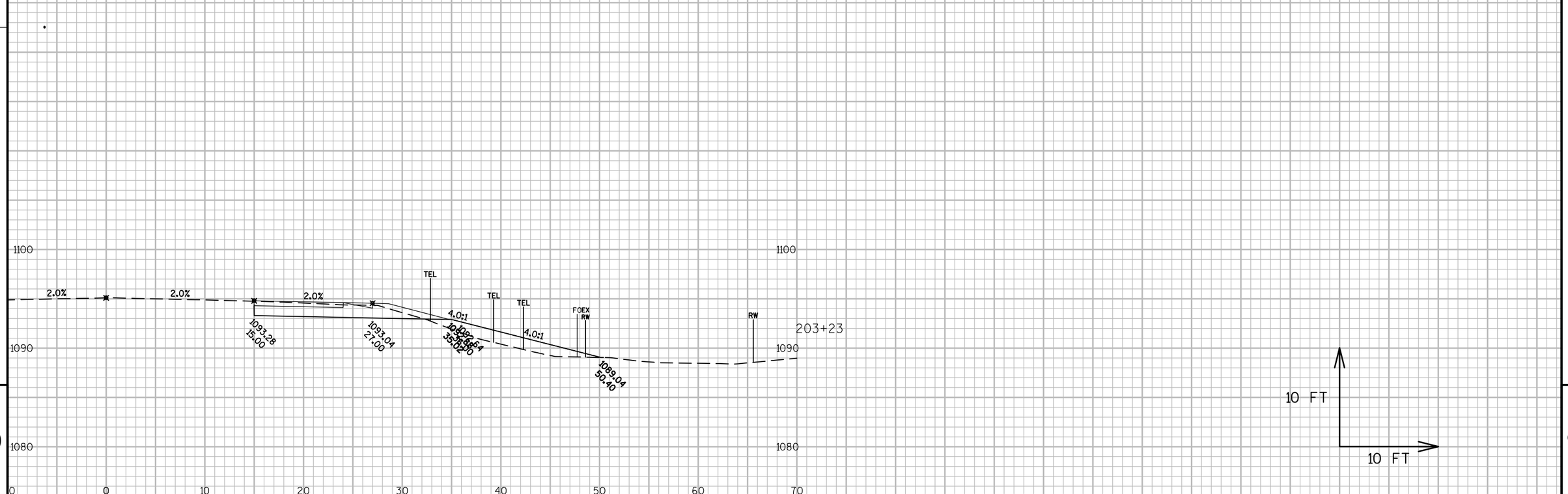
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LAYOUT NAME - SECTION SHEET - (23)

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WISDOT/CADDS SHEET 49

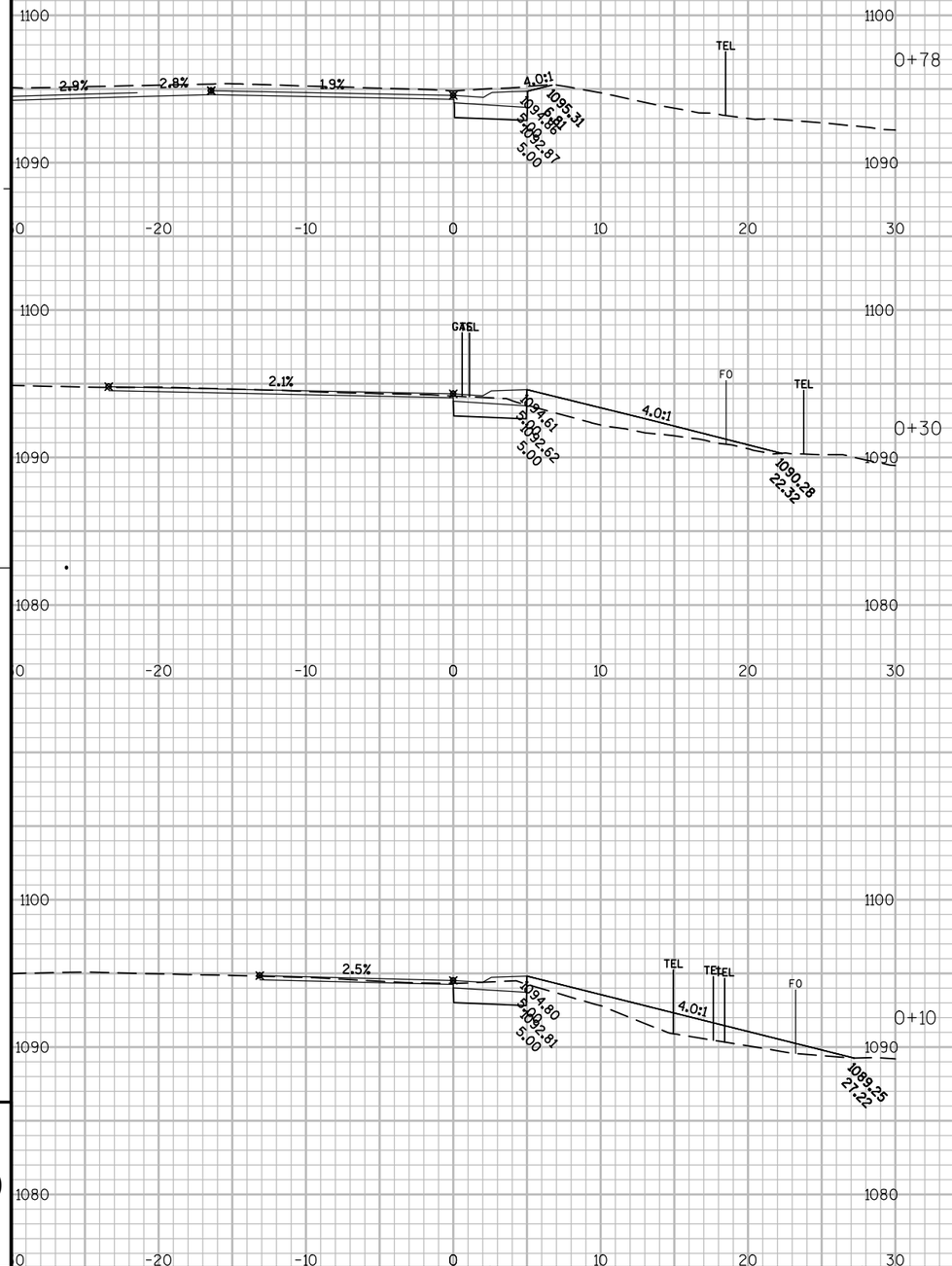


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LAYOUT NAME - SECTION SHEET - (24)

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WISDOT/CADDS SHEET 49

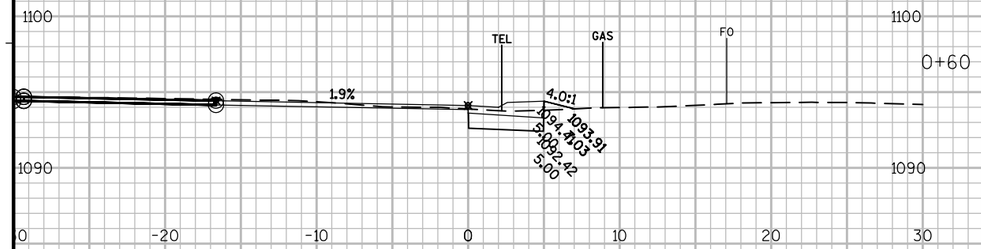


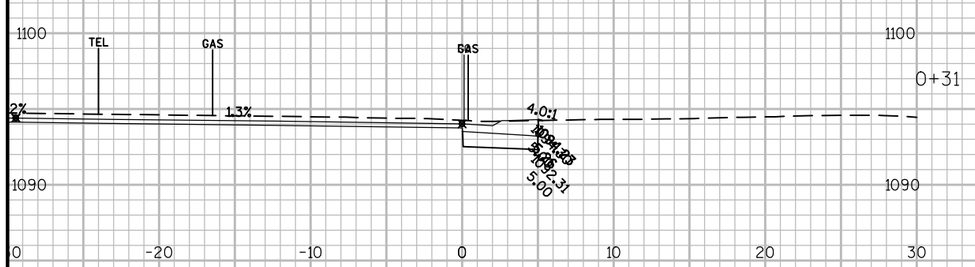
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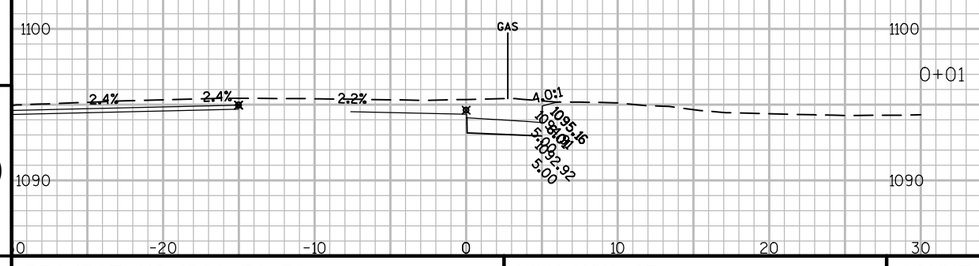
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LAYOUT NAME - CURB ONE - (1)

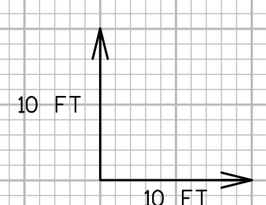
PLOT DATE : 2/5/2015 2:48 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49









9

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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: CTH M NORTH CURB	SHEET 275	E

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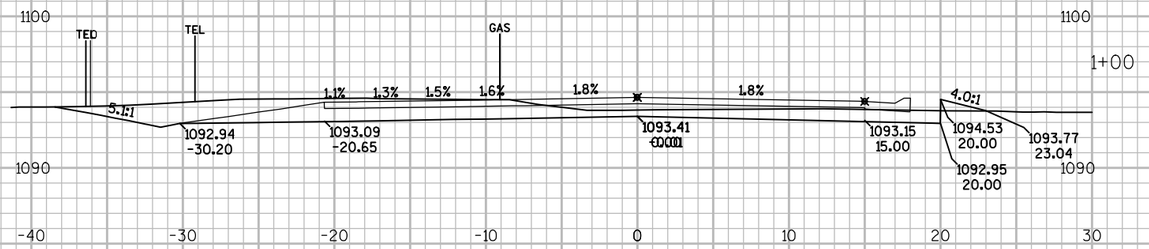
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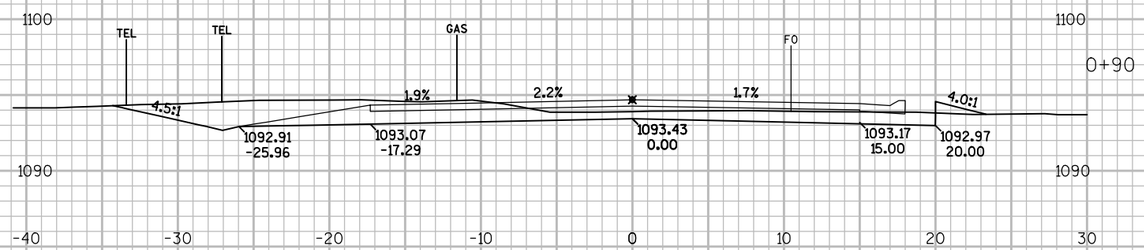
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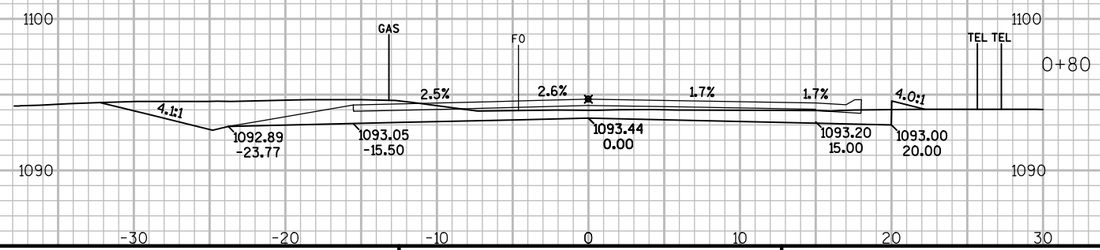
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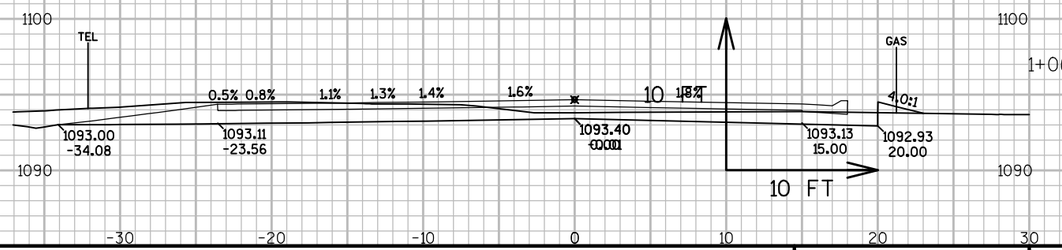
WISDOT/CADDS SHEET 49

LEGION CENTERLINE SECTIONS









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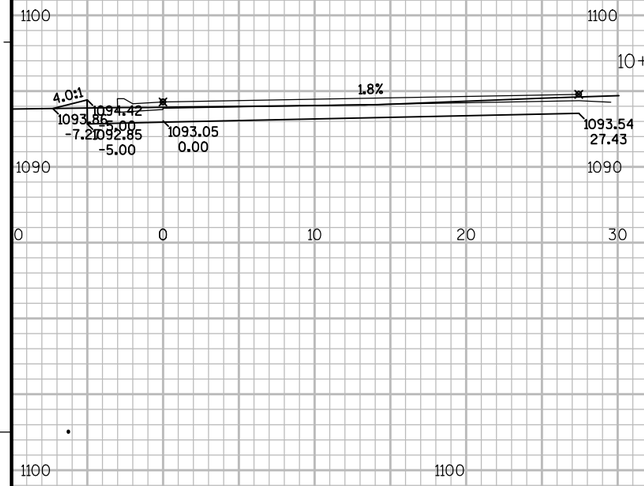
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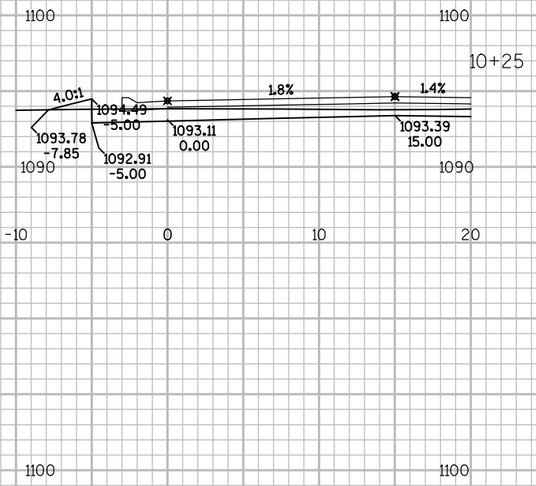
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LAYOUT NAME - LEGION - (1)

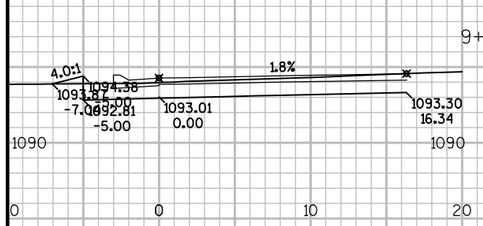
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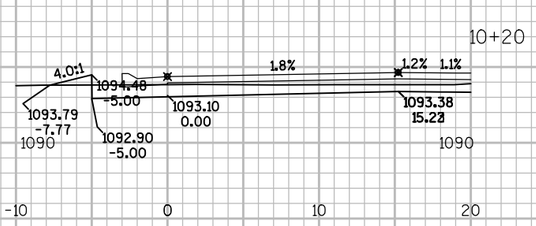
WISDOT/CADDS SHEET 49

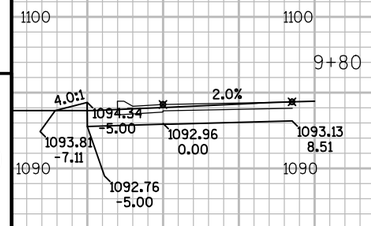
SOUTH RADIUS SECTIONS



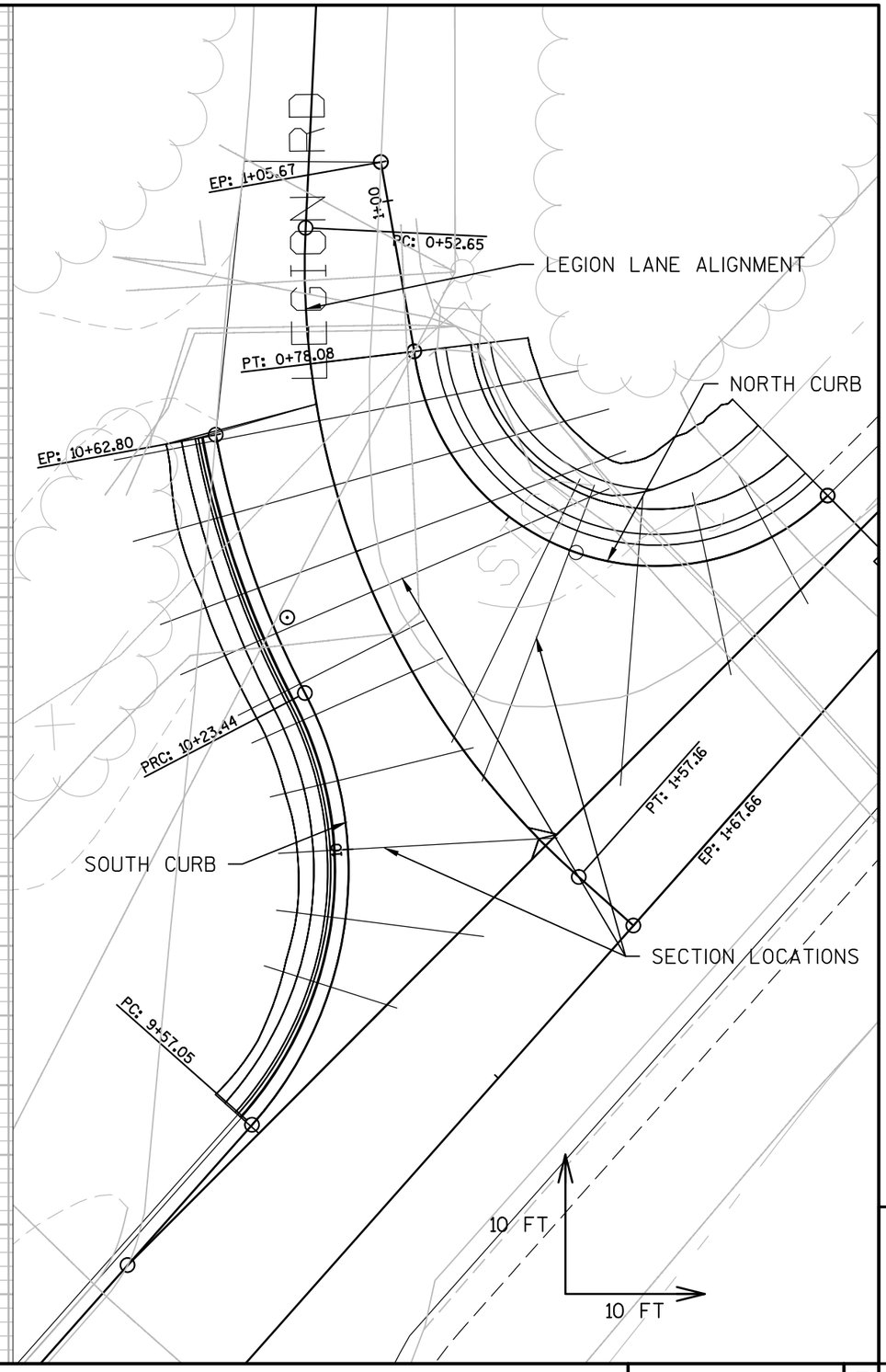








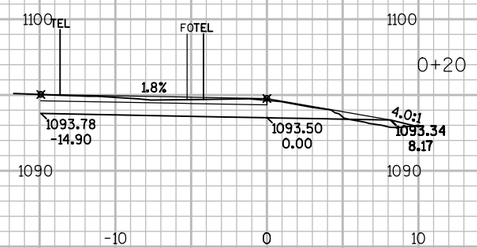


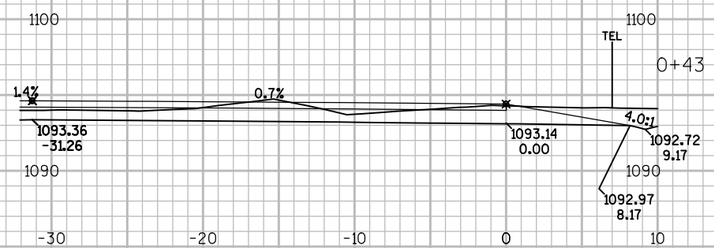


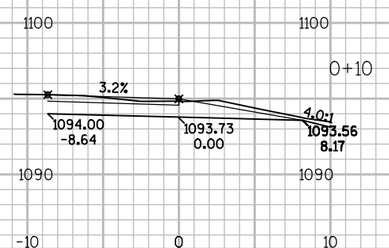
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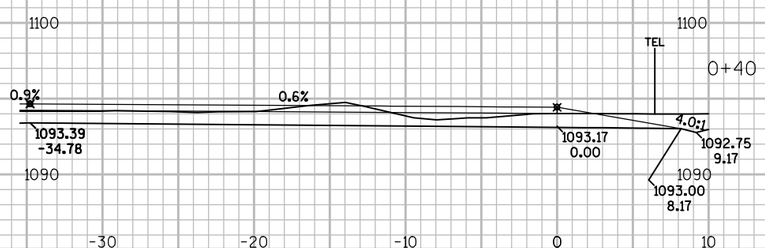
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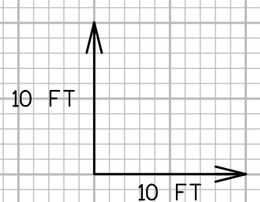












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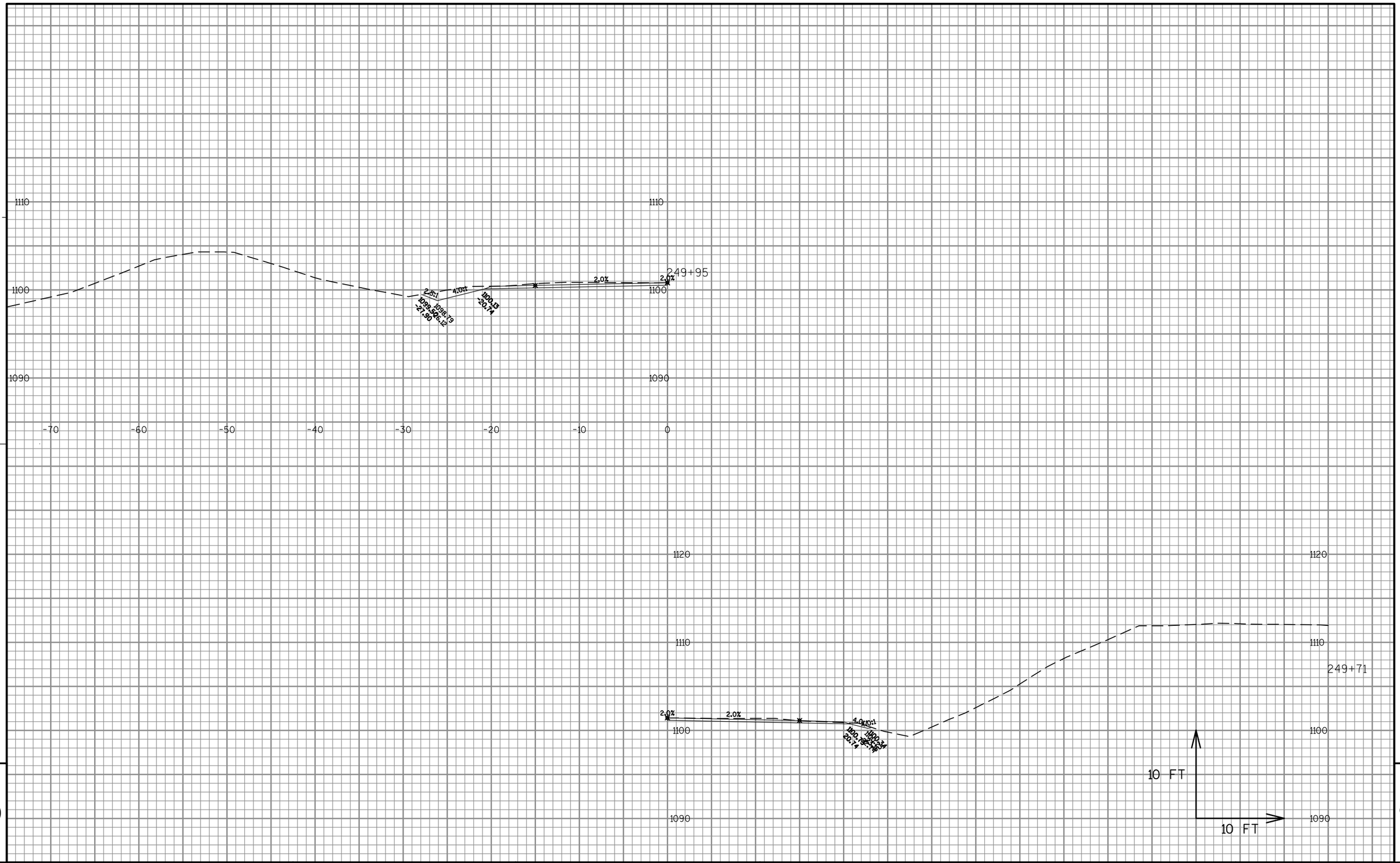
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: NORTH CURB SECTIONS	SHEET 278	E

FILE NAME : N:\PDS\C3D\15603000\SHEETSOTHER\INT DETAIL-CURBS\LEGION LN RADII.DWG
LAYOUT NAME - LEG NORTH CURB - (1)

PLOT DATE : 2/18/2015 8:47 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



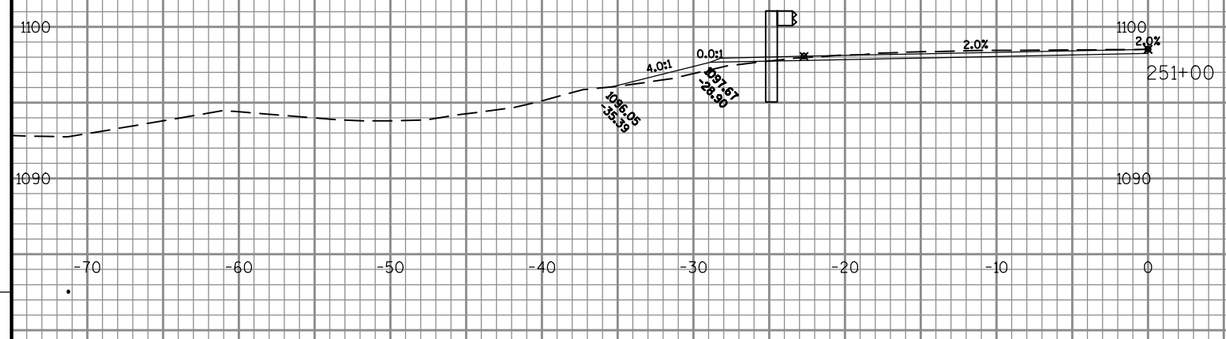
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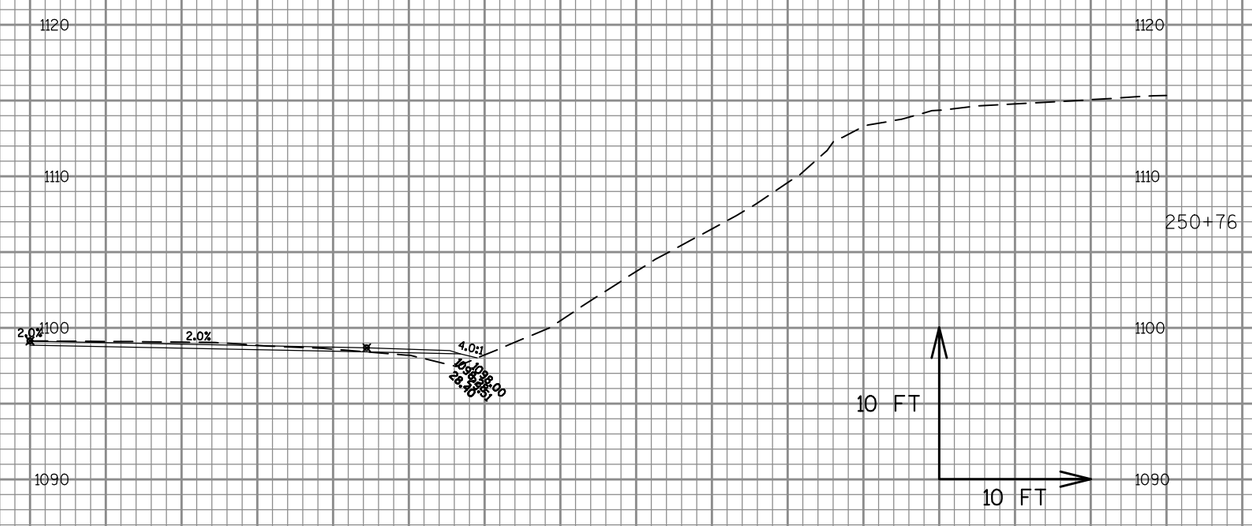
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: BEAMGUARD BRIDGE	SHEET 279	E

9

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-BRDG-BMGRD.DWG
CROSS SECTIONS - NAMBAM (1)

PLOT DATE : 9/16/2014 9:37 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT





9

9

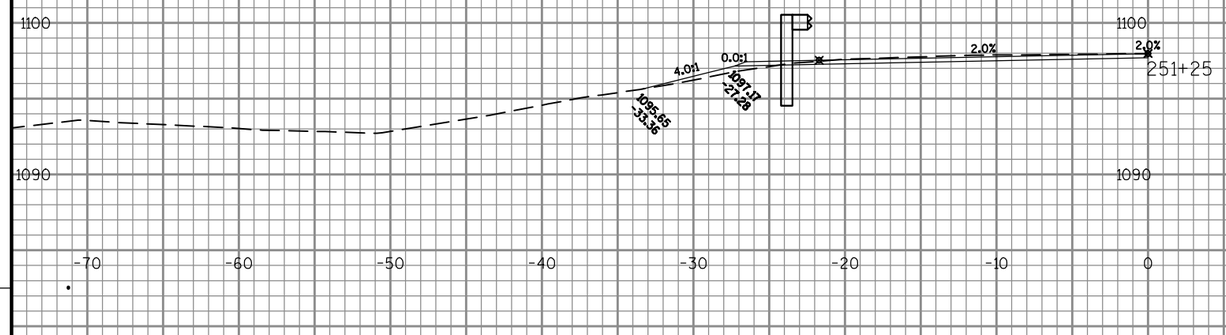
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: BEAMGUARD BRIDGE	SHEET 280	E

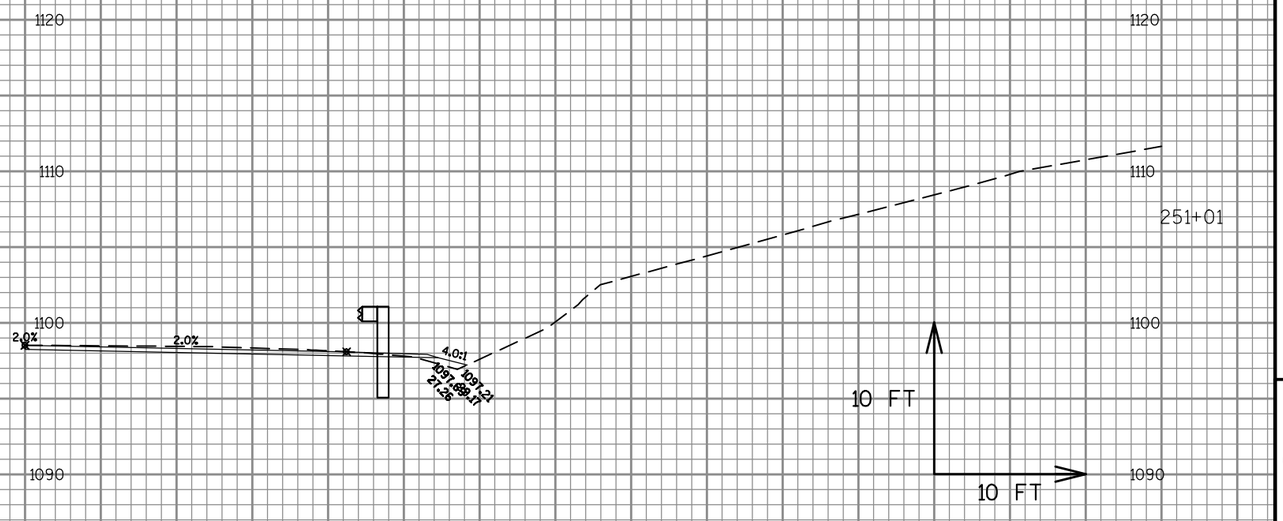
FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-BRDG-BMGRD.DWG
CROSS SECTIONS - NAMBAM (2)

PLOT DATE : 9/16/2014 9:37 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49





9

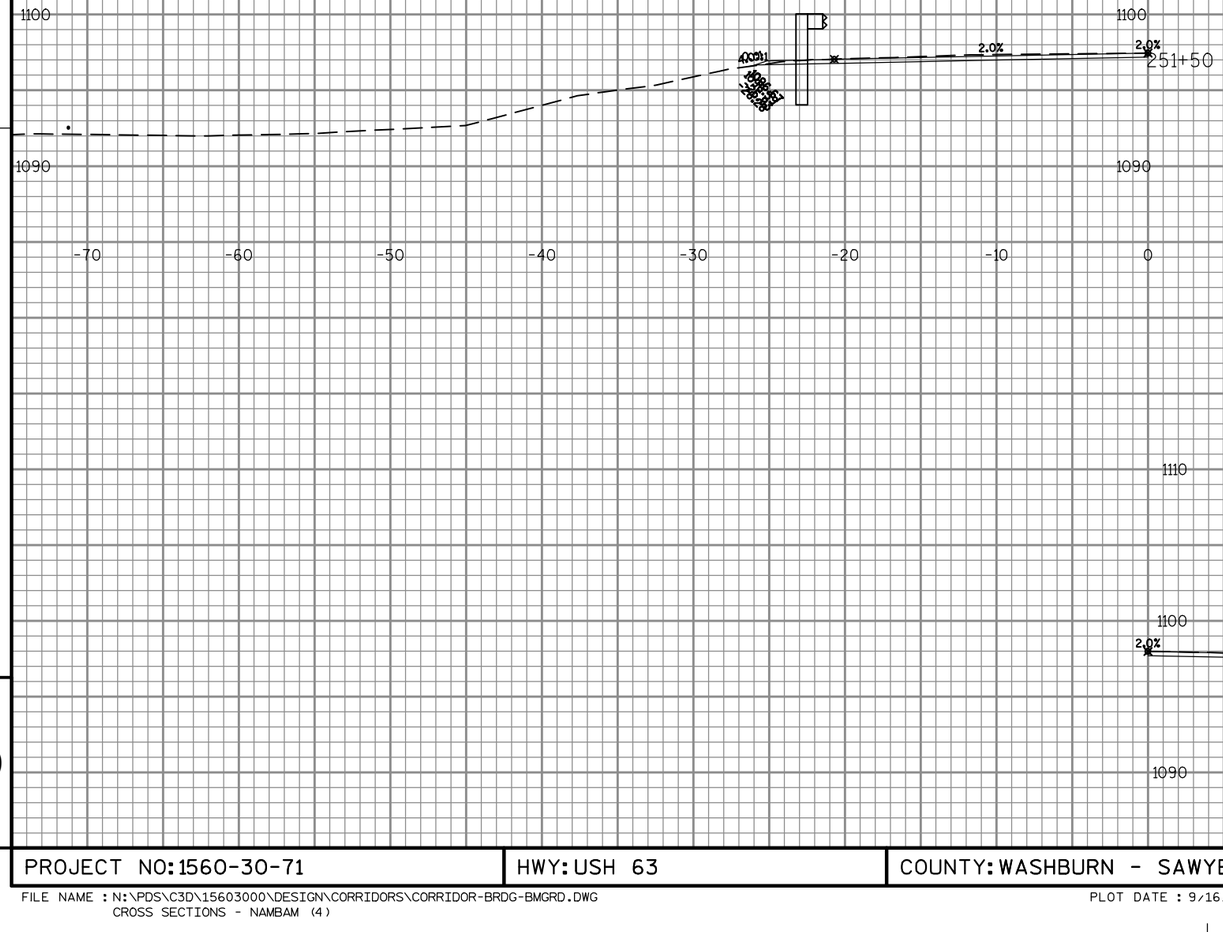
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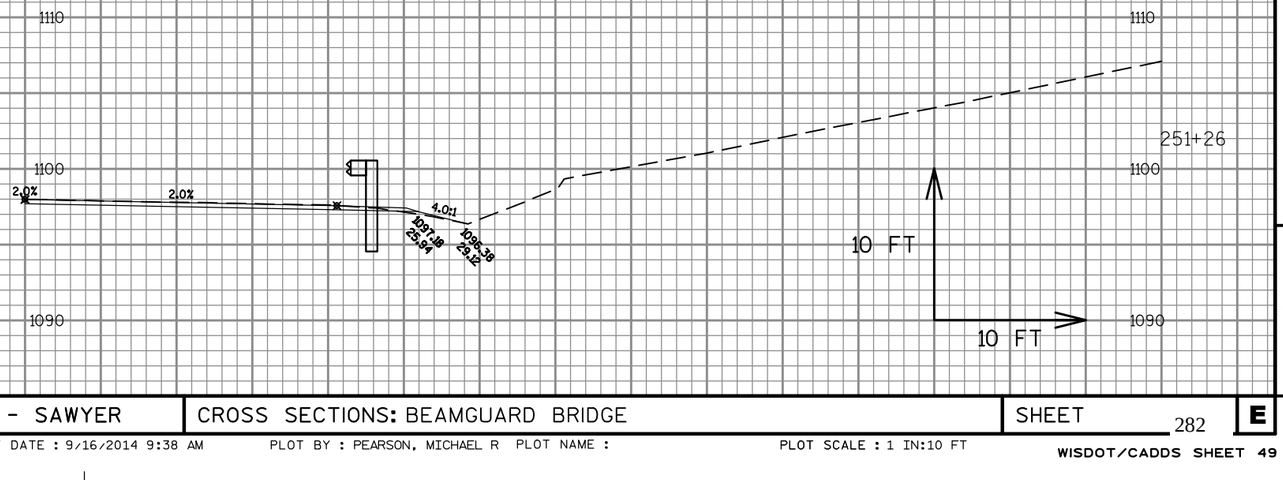
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: BEAMGUARD BRIDGE	SHEET 281	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-BRDG-BMGRD.DWG
CROSS SECTIONS - NAMBAM (3)

PLOT DATE : 9/16/2014 9:38 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49





9

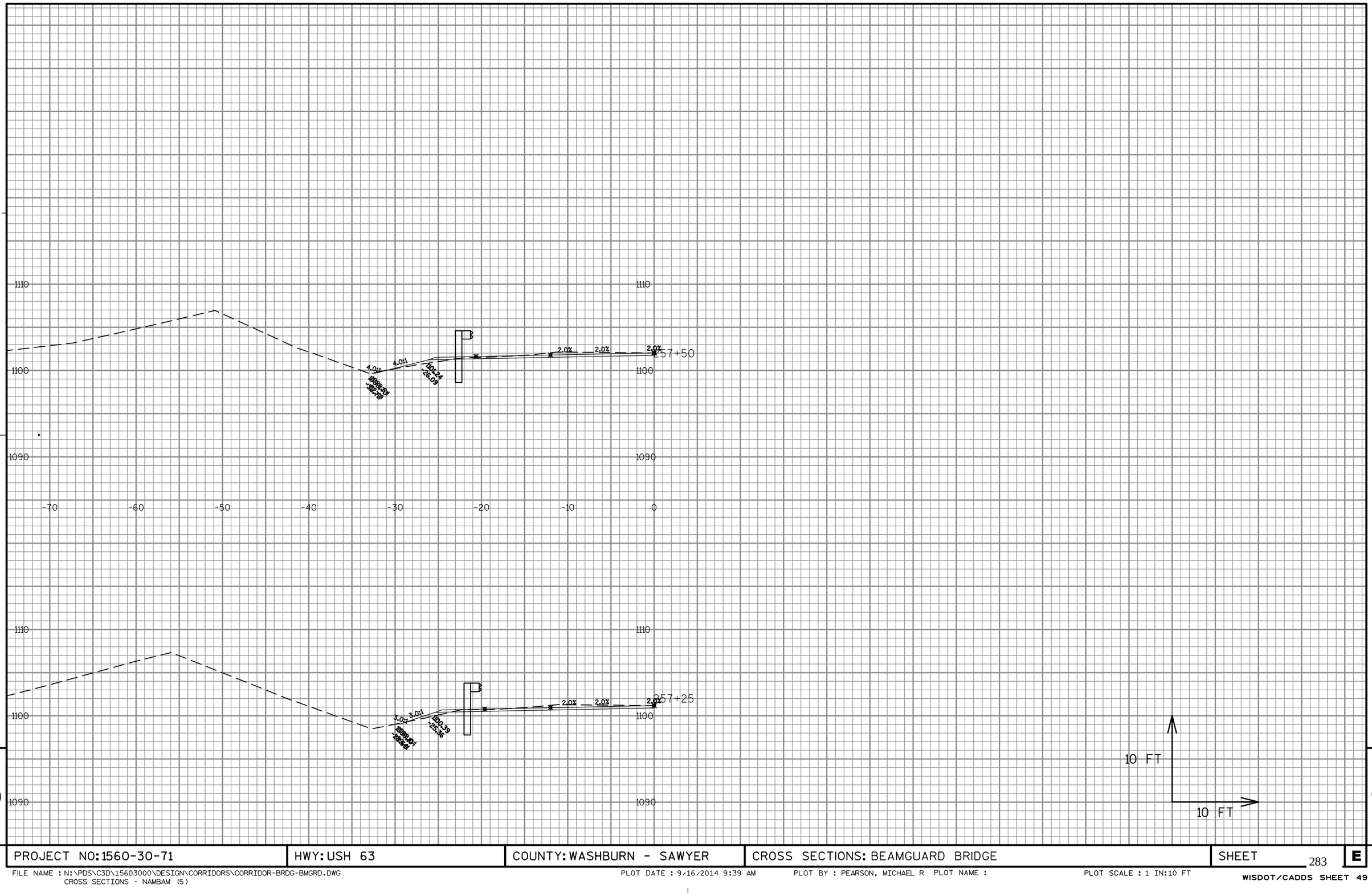
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: BEAMGUARD BRIDGE	SHEET 282	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-BRDG-BMGRD.DWG
CROSS SECTIONS - NAMBAM (4)

PLOT DATE : 9/16/2014 9:38 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

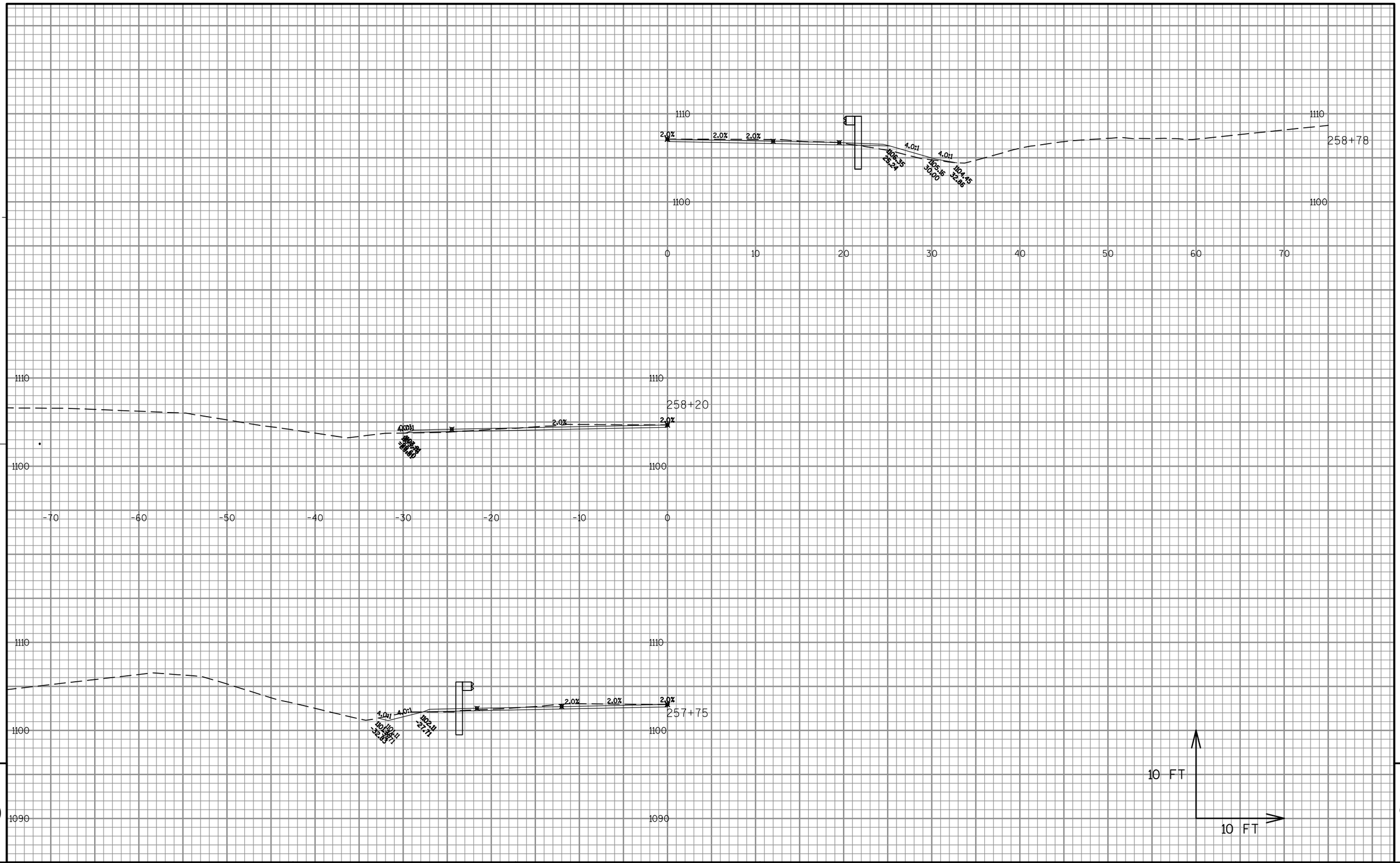
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: BEAMGUARD BRIDGE	SHEET 283	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-BRDG-BMGRD.DWG
CROSS SECTIONS - NAMBAM (5)

PLOT DATE : 9/16/2014 9:39 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

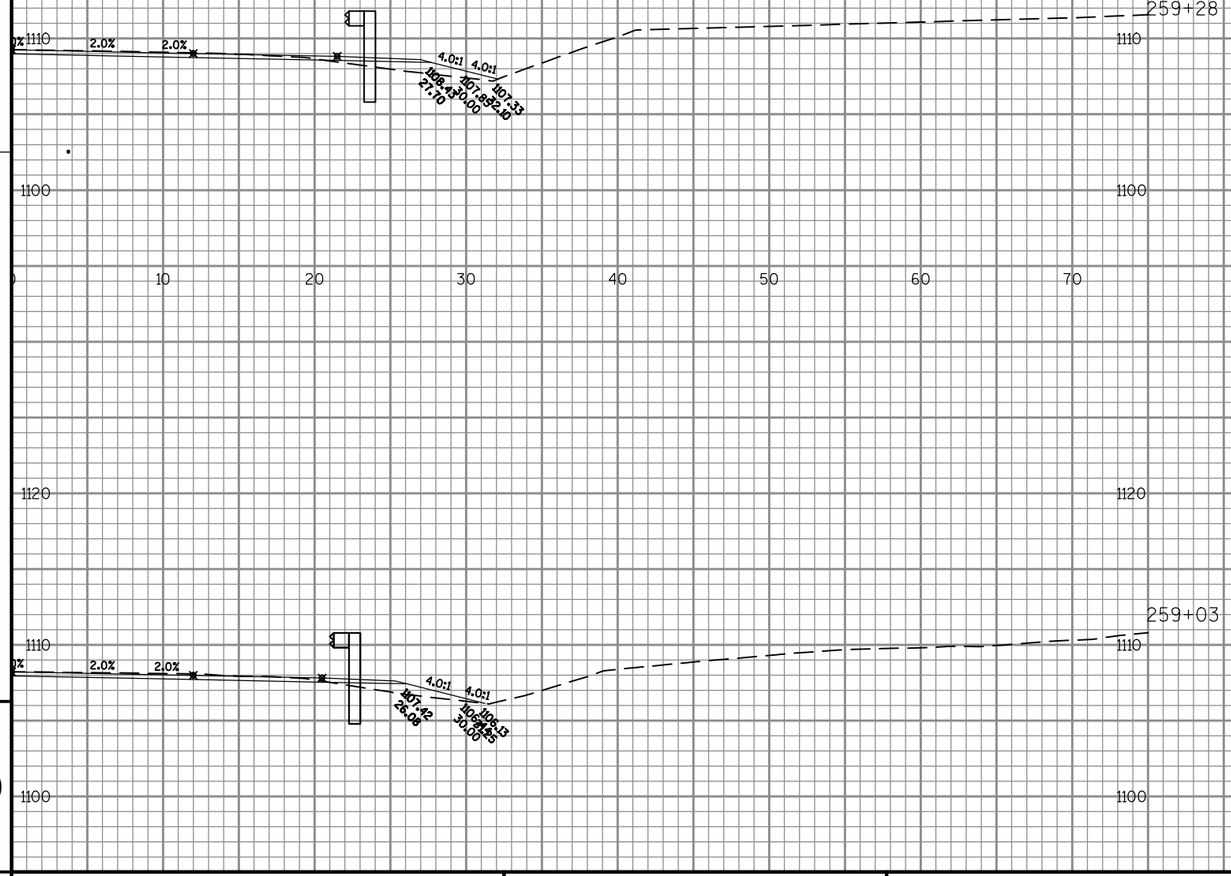
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: BEAMGUARD BRIDGE	SHEET 284	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-BRDG-BMGRD.DWG
CROSS SECTIONS - NAMBAM (6)

PLOT DATE : 9/16/2014 9:39 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

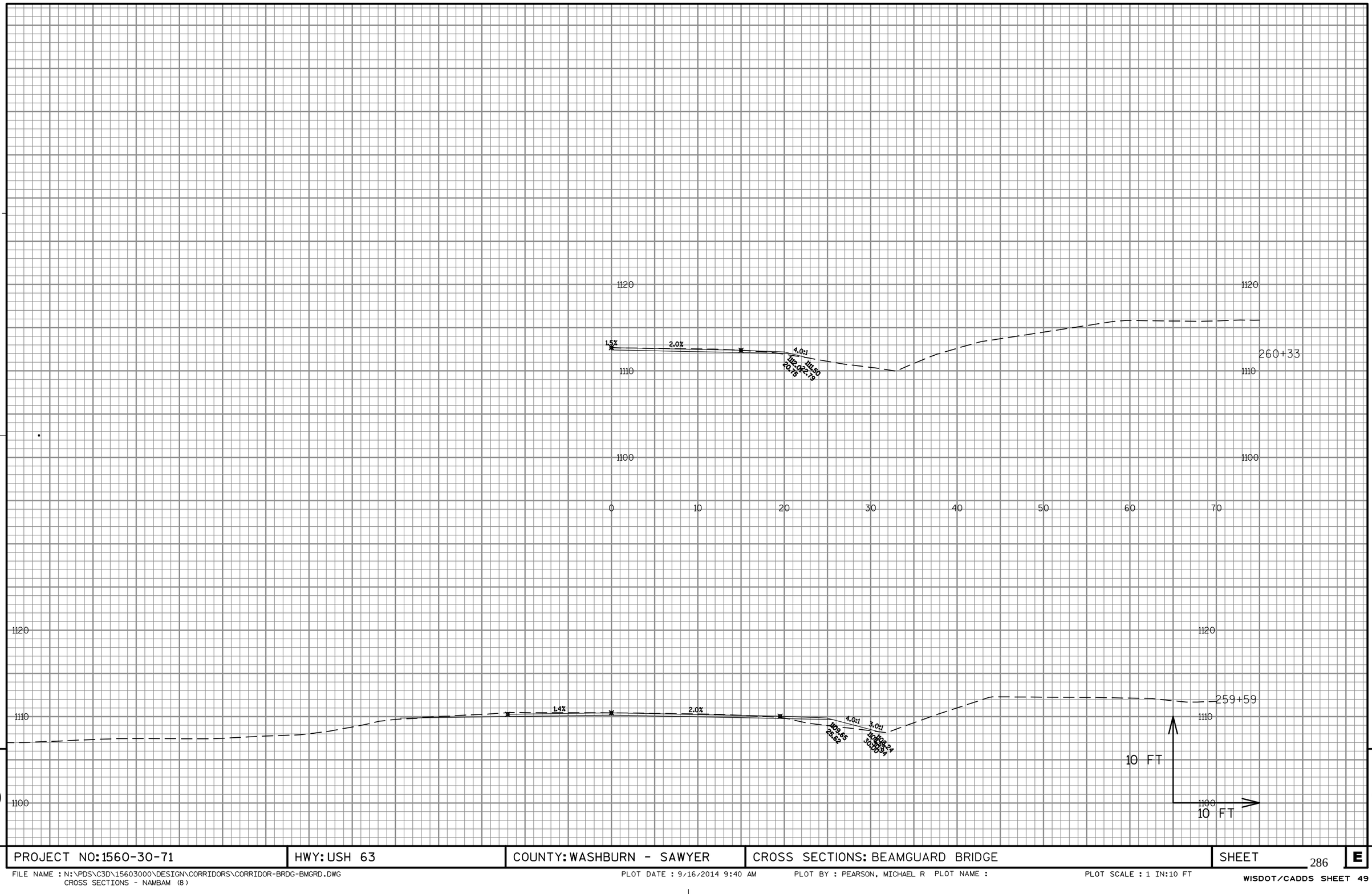


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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: BEAMGUARD BRIDGE	SHEET 285	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-BRDG-BMGRD.DWG
CROSS SECTIONS - NAMBAM (7)
PLOT DATE : 9/16/2014 9:40 AM
PLOT BY : PEARSON, MICHAEL R PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



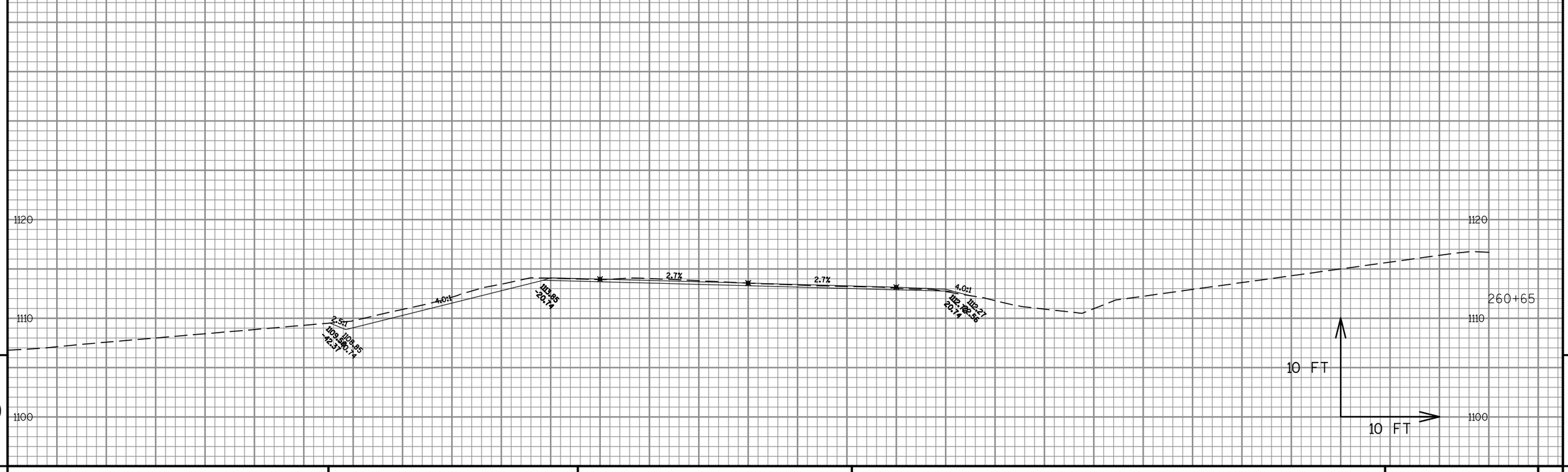
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: BEAMGUARD BRIDGE	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-BRDG-BMGRD.DWG
CROSS SECTIONS - NAMBAM (8)

PLOT DATE : 9/16/2014 9:40 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT



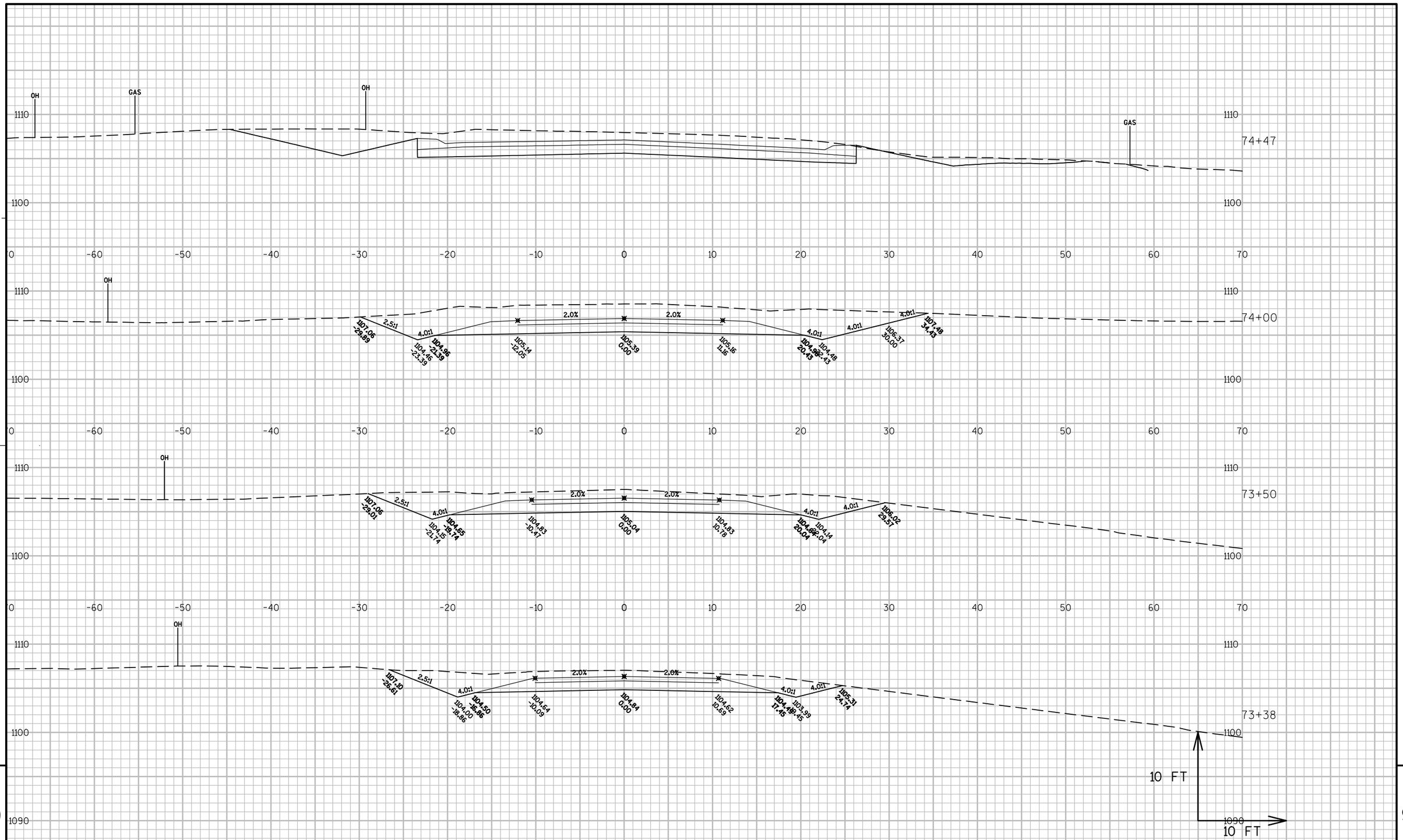
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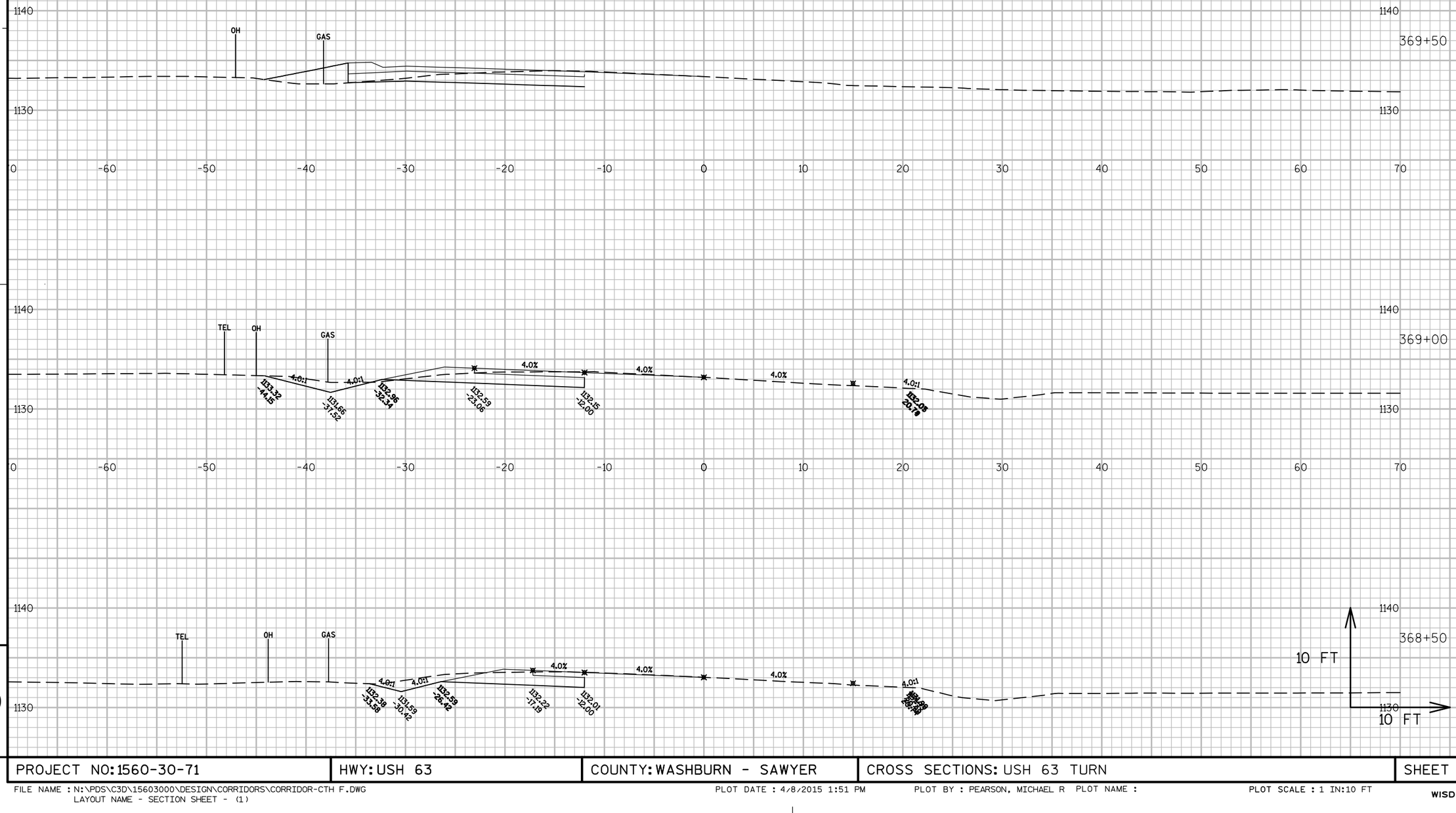
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: BEAMGUARD BRIDGE	SHEET 287	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-BRDG-BMGRD.DWG
CROSS SECTIONS - NAMBAM (9)

PLOT DATE : 9/16/2014 9:41 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: HAMILTON ROAD	SHEET 288	E

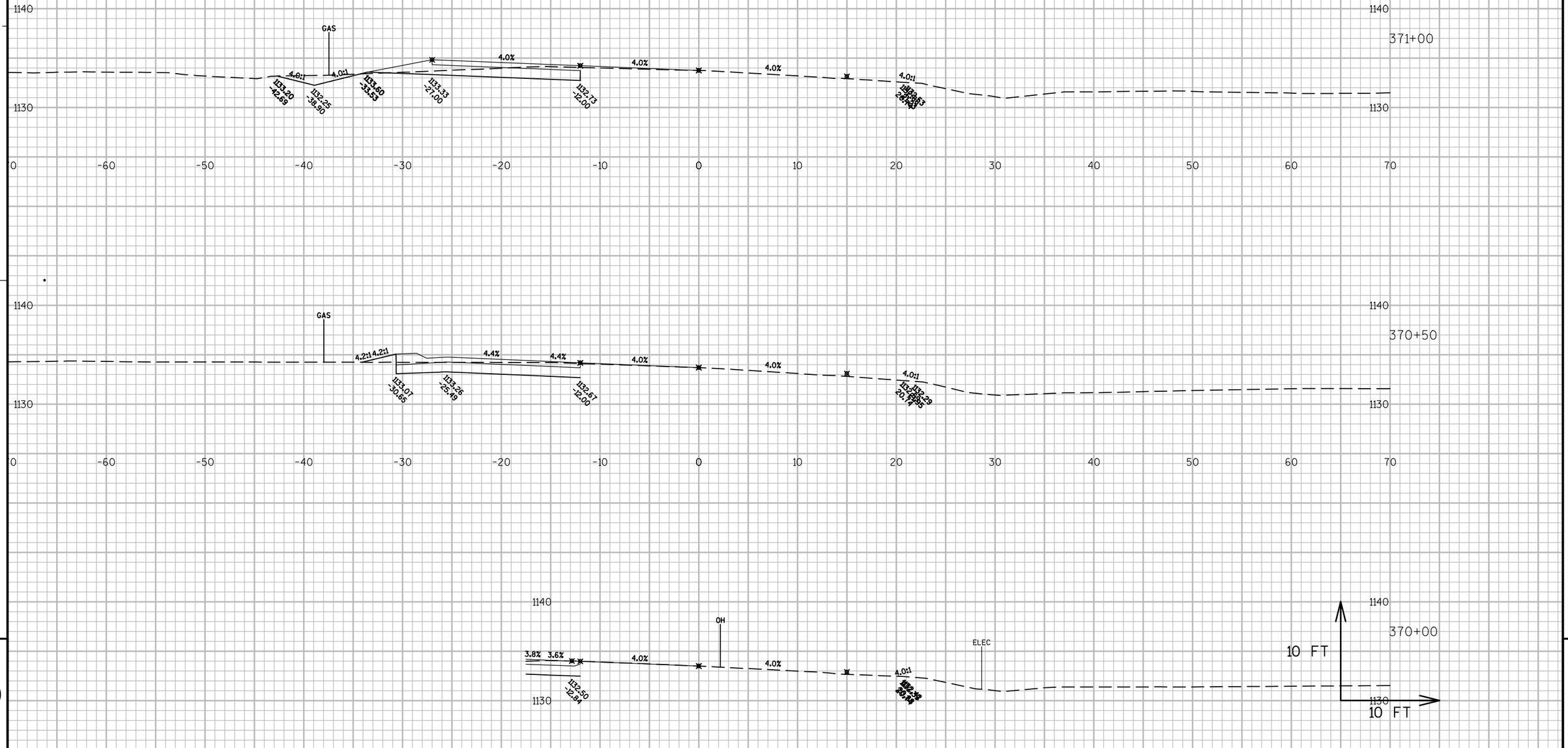


PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: USH 63 TURN	SHEET 289	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-CTH F.DWG
LAYOUT NAME - SECTION SHEET - (1)

PLOT DATE : 4/8/2015 1:51 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

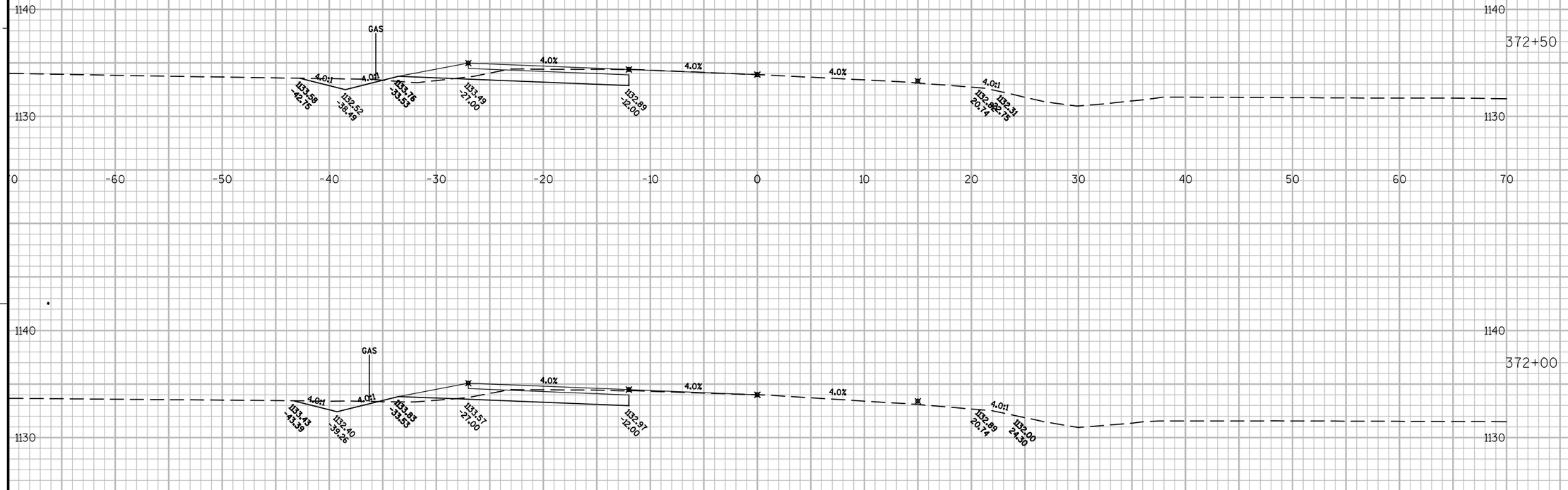


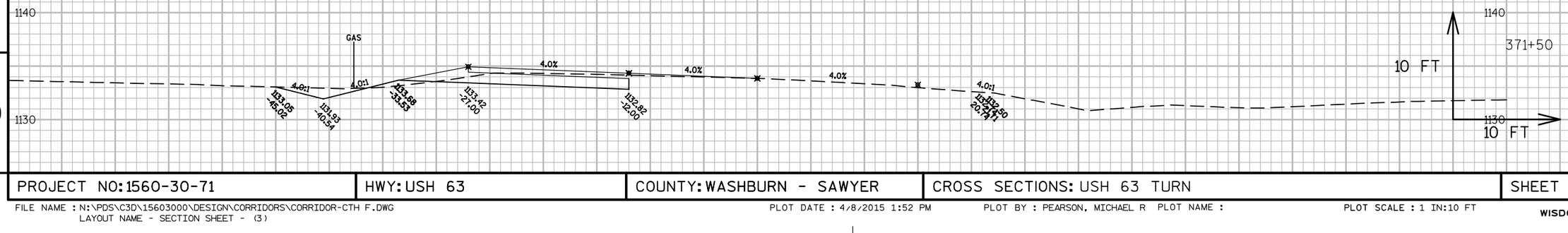
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: USH 63 TURN	SHEET 290	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-CTH F.DWG
LAYOUT NAME - SECTION SHEET - (2)

PLOT DATE : 4/8/2015 1:52 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49





9

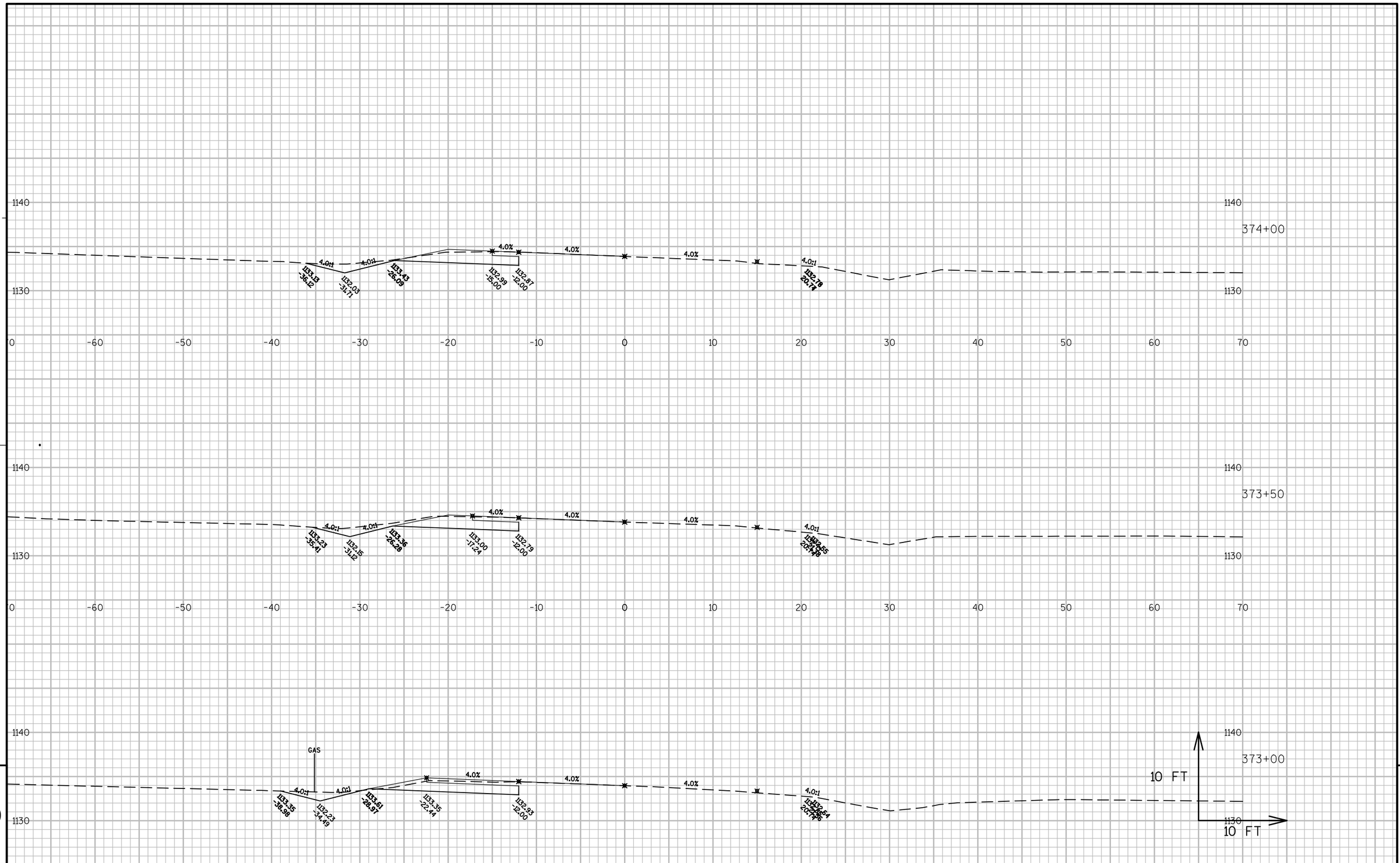
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: USH 63 TURN	SHEET 291	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-CTH F.DWG
LAYOUT NAME - SECTION SHEET - (3)

PLOT DATE : 4/8/2015 1:52 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

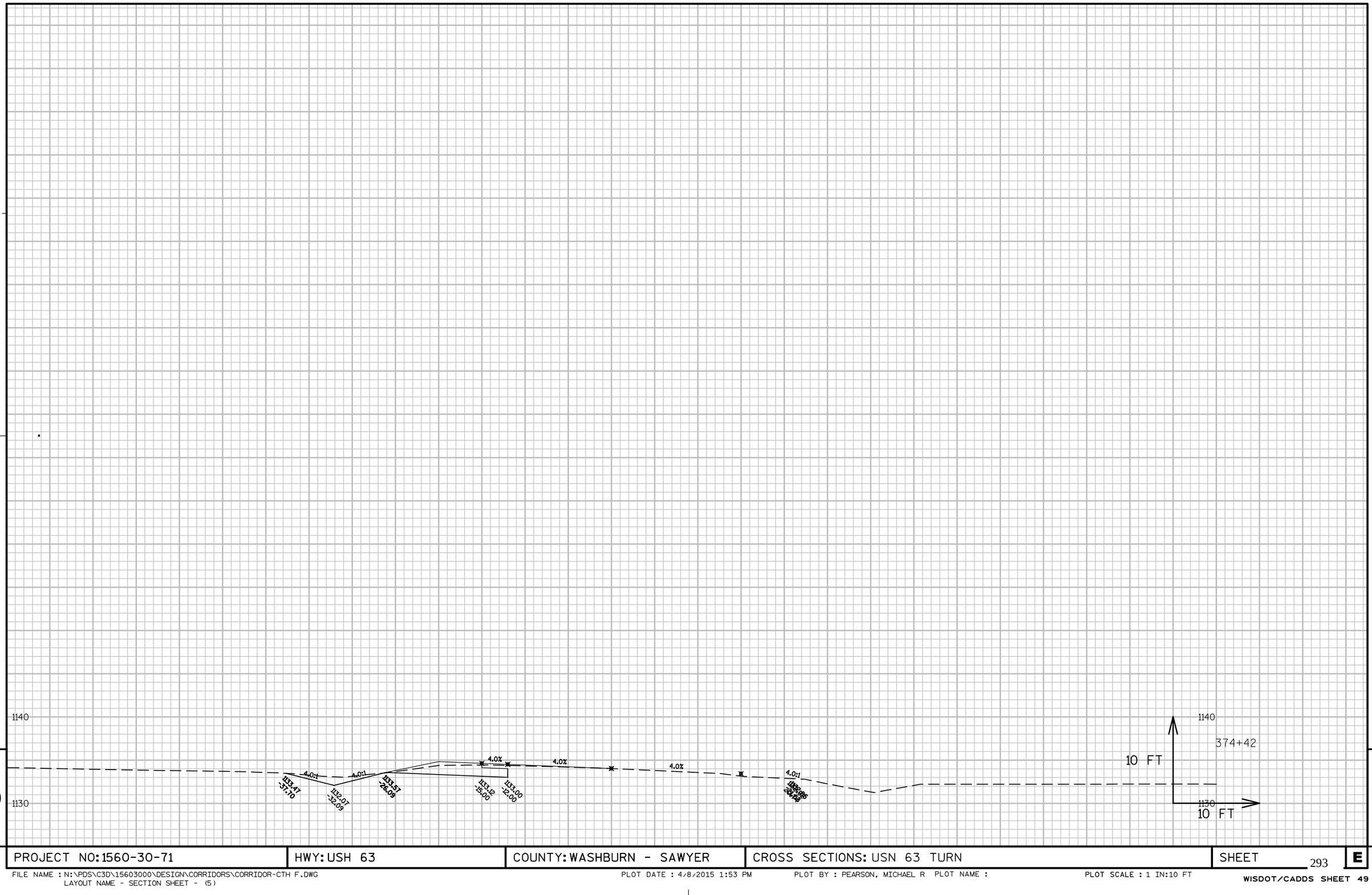
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: USH 63 TURN	SHEET 292	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-CTH F.DWG
LAYOUT NAME - SECTION SHEET - (4)

PLOT DATE : 4/8/2015 1:53 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

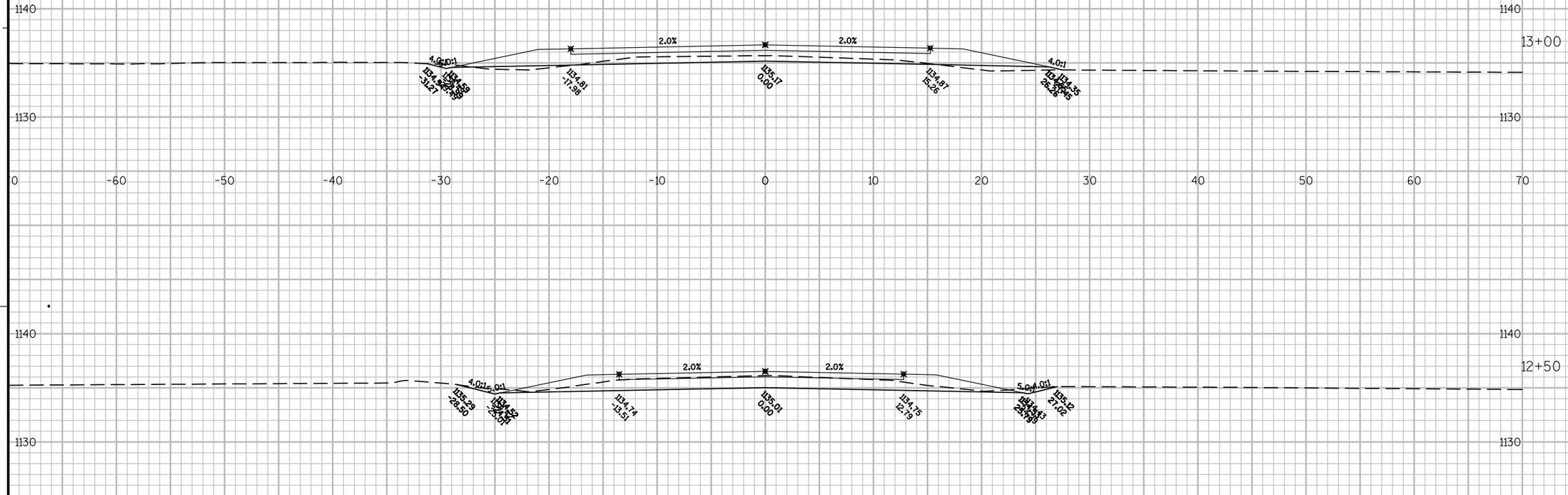


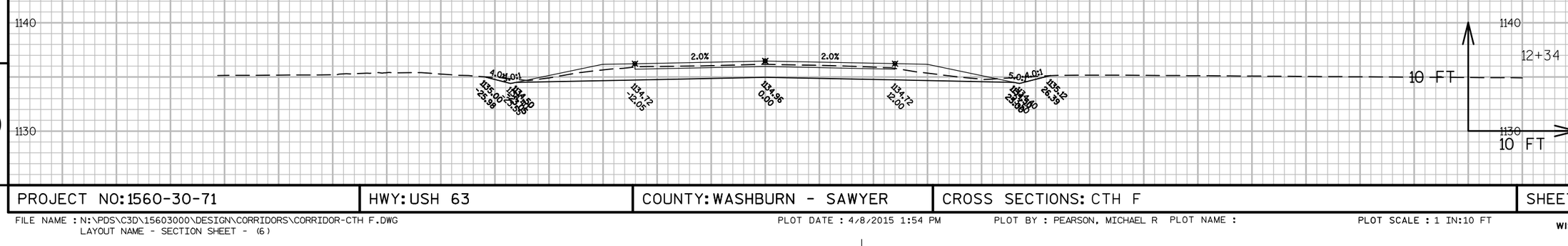
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: USN 63 TURN	SHEET 293	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-CTH F.DWG
LAYOUT NAME - SECTION SHEET - (5)

PLOT DATE : 4/8/2015 1:53 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49





9

9

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: CTH F	SHEET 294	E

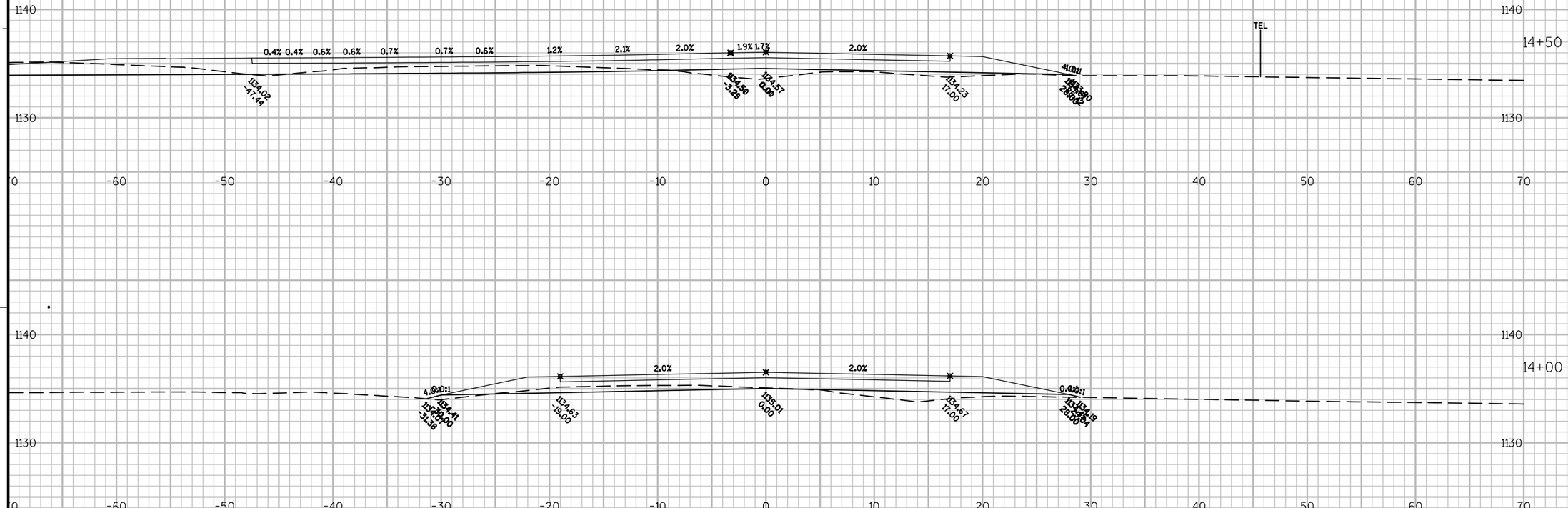
FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-CTH F.DWG
LAYOUT NAME - SECTION SHEET - (6)

PLOT DATE : 4/8/2015 1:54 PM

PLOT BY : PEARSON, MICHAEL R PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

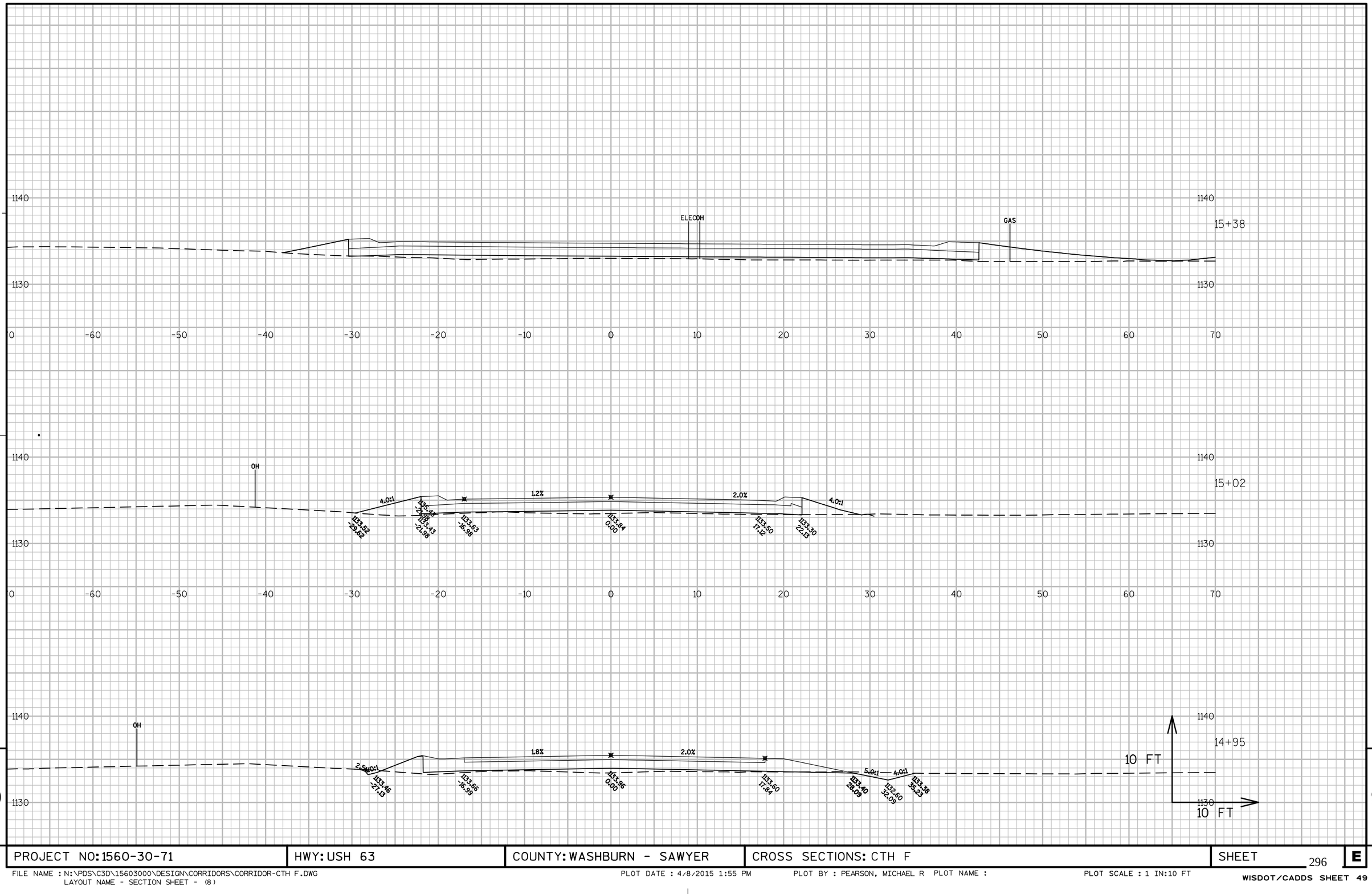


PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: CTH F	SHEET 295	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-CTH F.DWG
LAYOUT NAME - SECTION SHEET - (7)

PLOT DATE : 4/8/2015 1:54 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

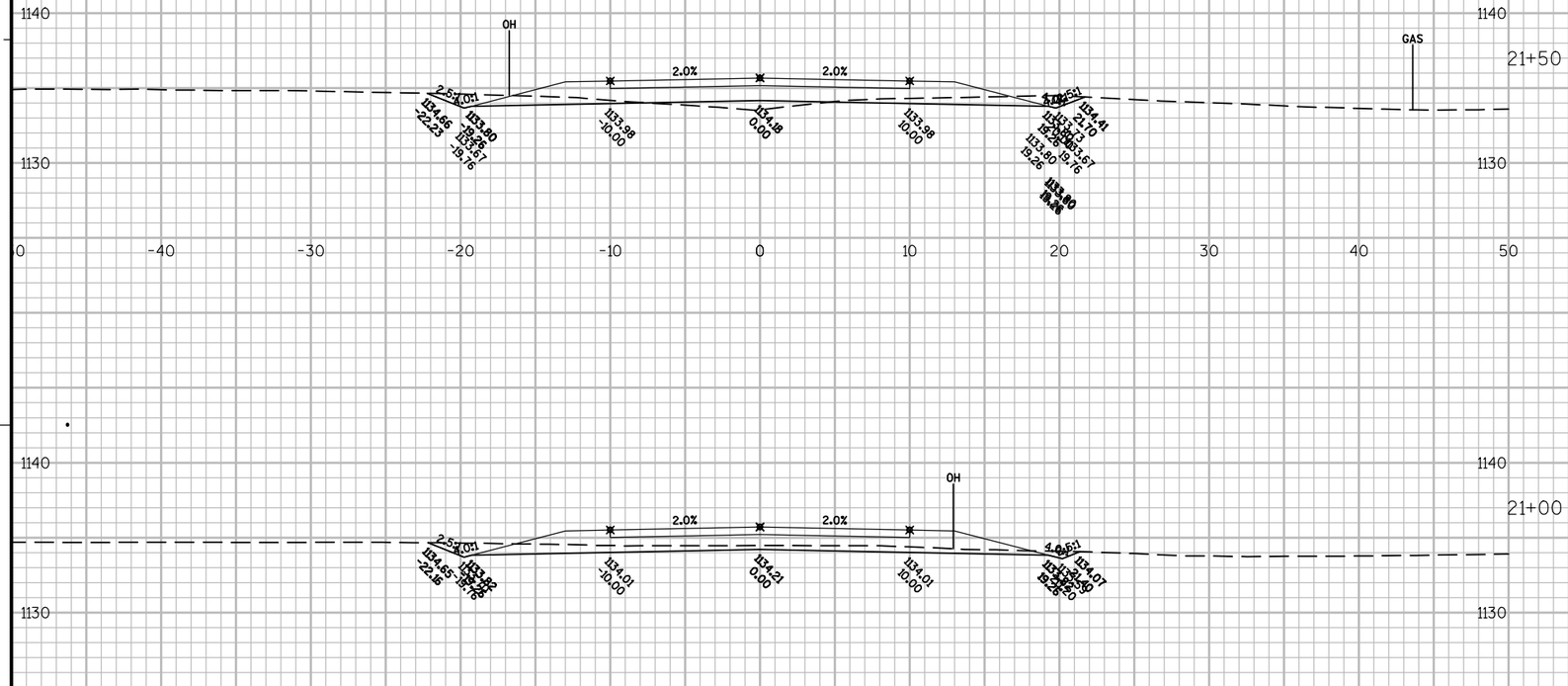


PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: CTH F	SHEET 296	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-CTH F.DWG
LAYOUT NAME - SECTION SHEET - (8)

PLOT DATE : 4/8/2015 1:55 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

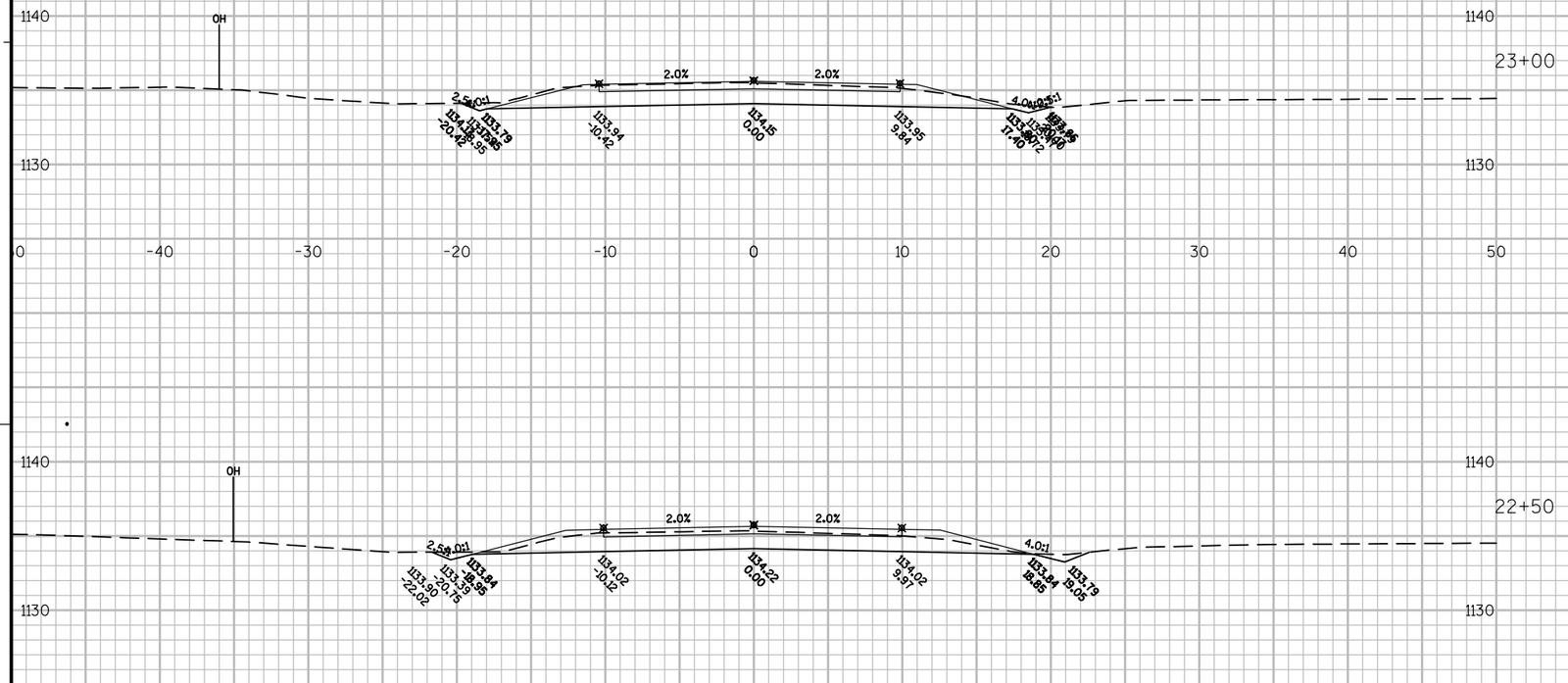


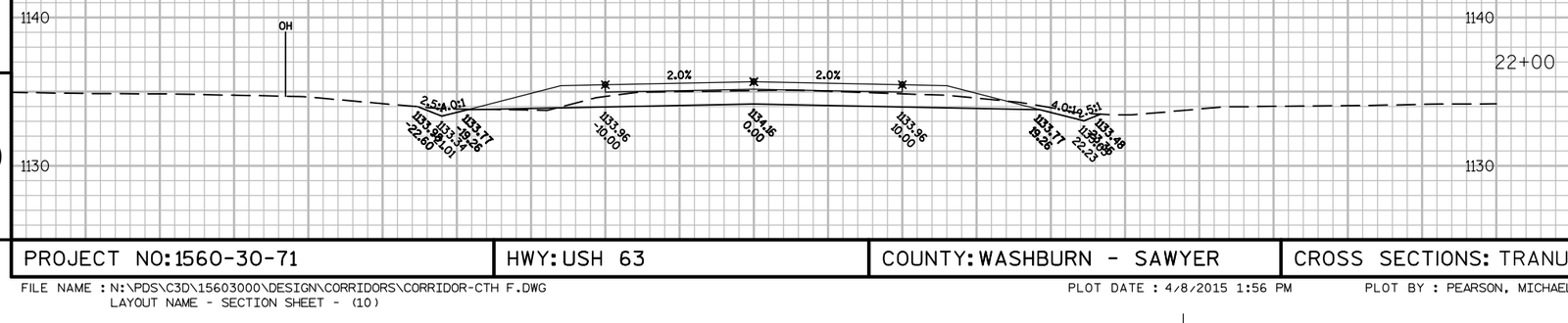
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: TRANUS ROAD	SHEET 297	E

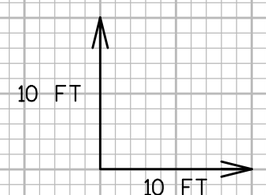
FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-CTH F.DWG
LAYOUT NAME - SECTION SHEET - (9)

PLOT DATE : 4/8/2015 1:55 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49







9

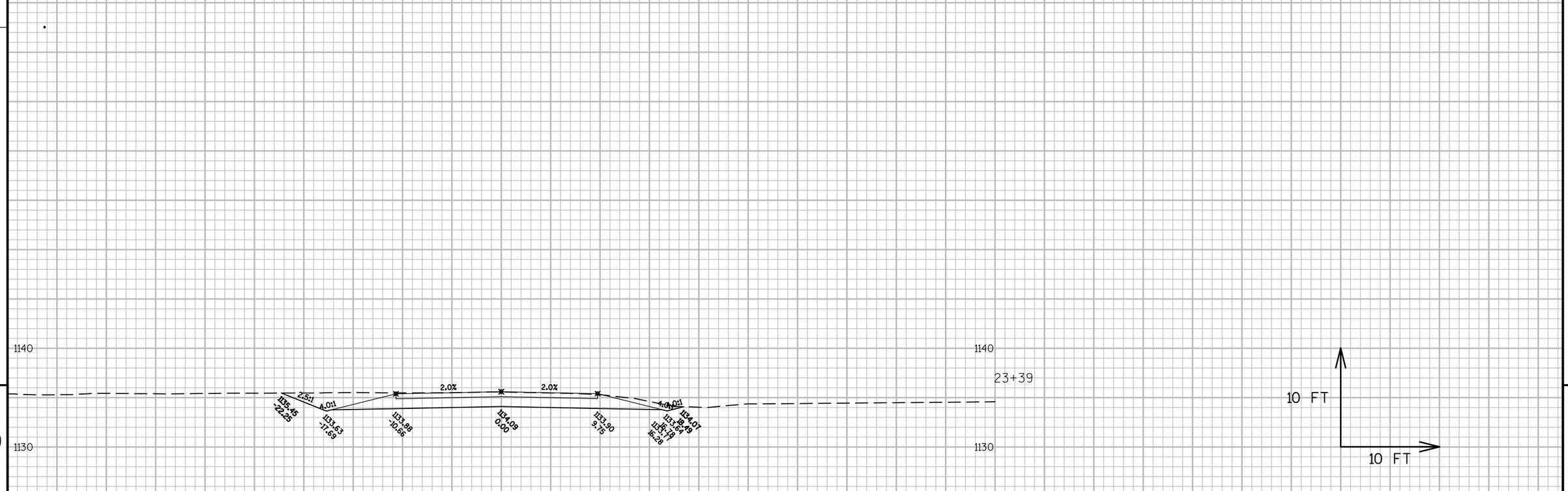
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: TRANUS ROAD	SHEET 298	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-CTH F.DWG
LAYOUT NAME - SECTION SHEET - (10)

PLOT DATE : 4/8/2015 1:56 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

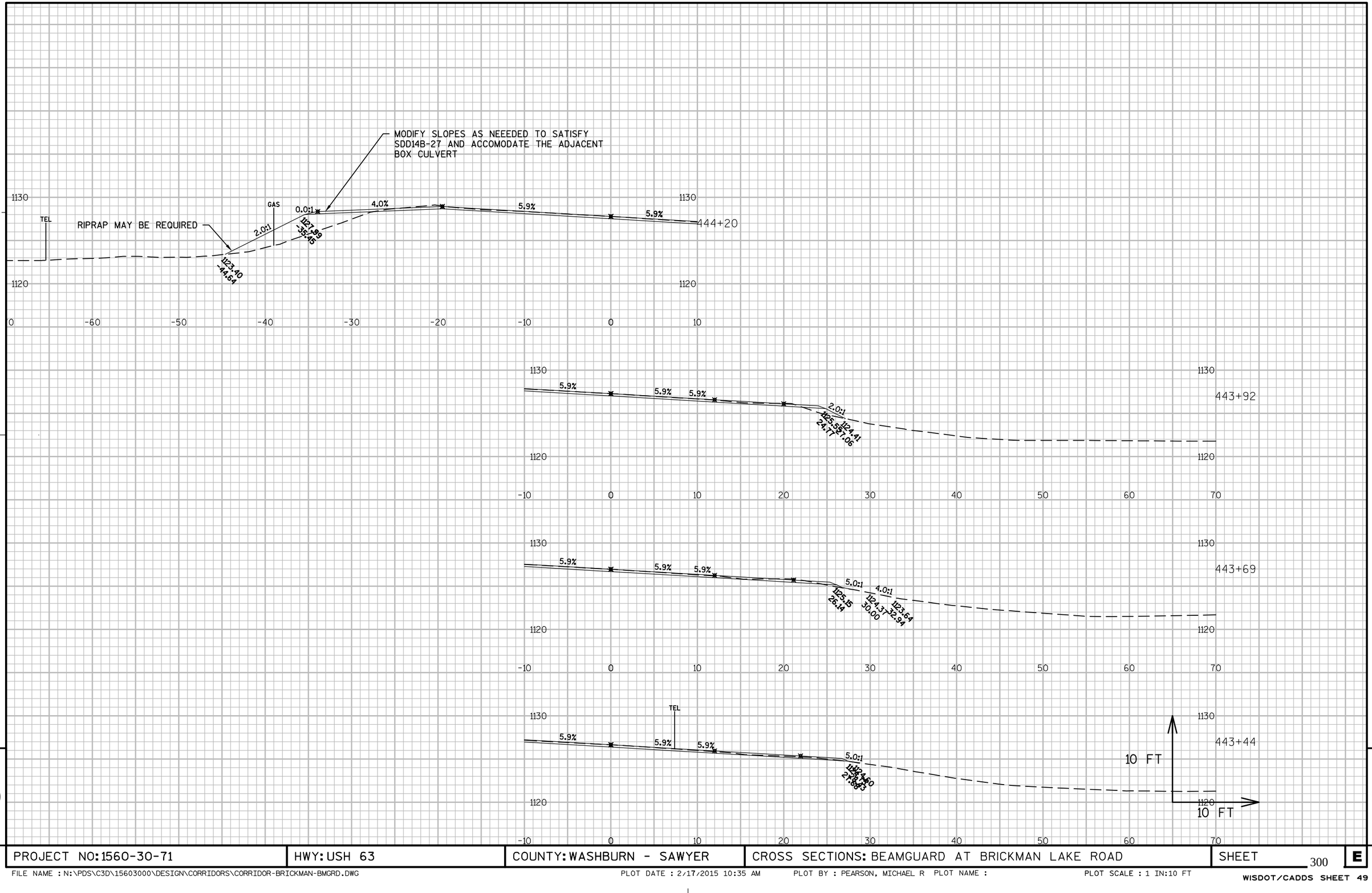
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: TRANUS ROAD	SHEET 299	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-CTH F.DWG
LAYOUT NAME - SECTION SHEET - (11)

PLOT DATE : 4/8/2015 1:56 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

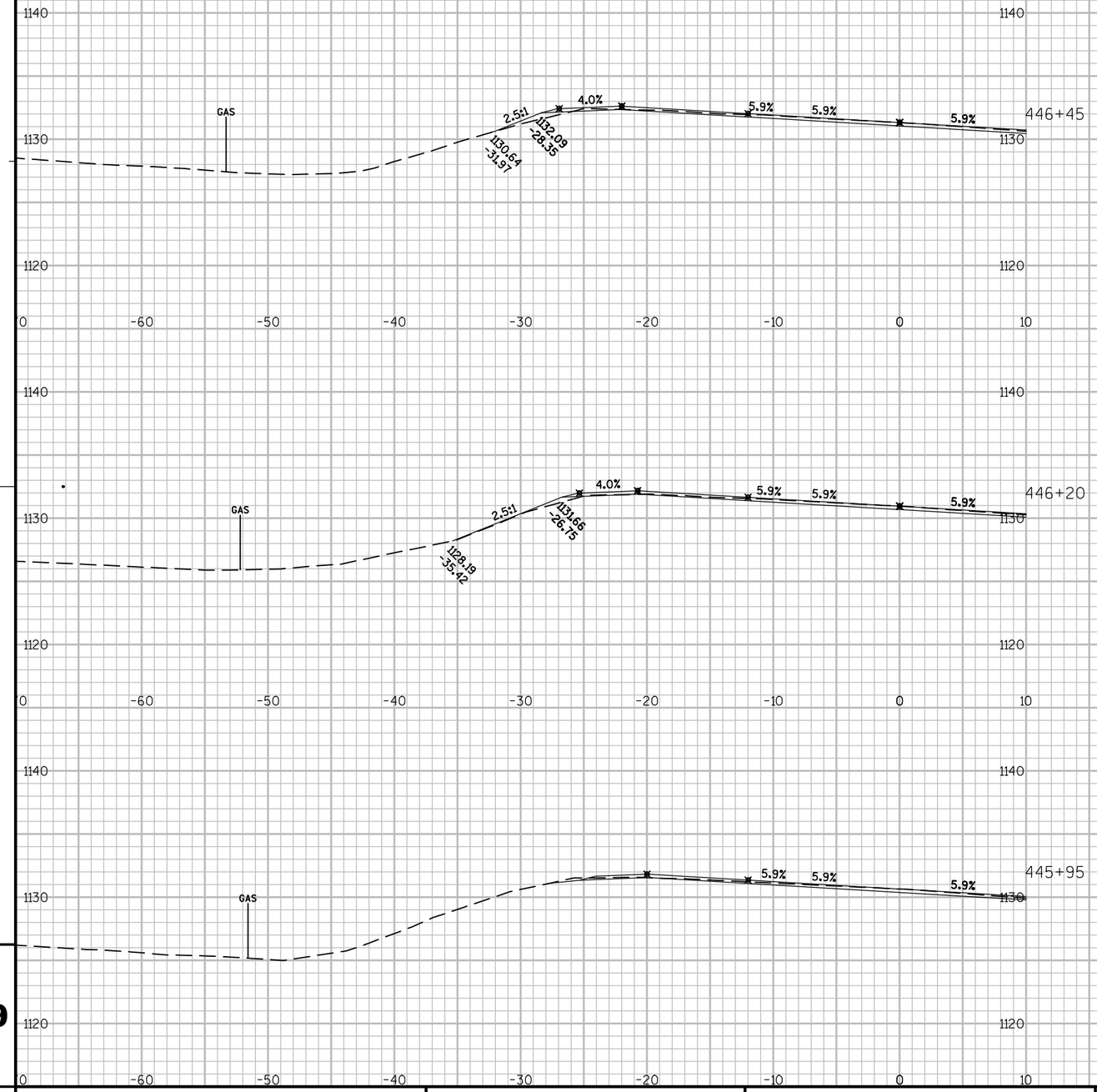
WISDOT/CADDS SHEET 49



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: BEAMGUARD AT BRICKMAN LAKE ROAD	SHEET 300	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-BRICKMAN-BMGRD.DWG PLOT DATE : 2/17/2015 10:35 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



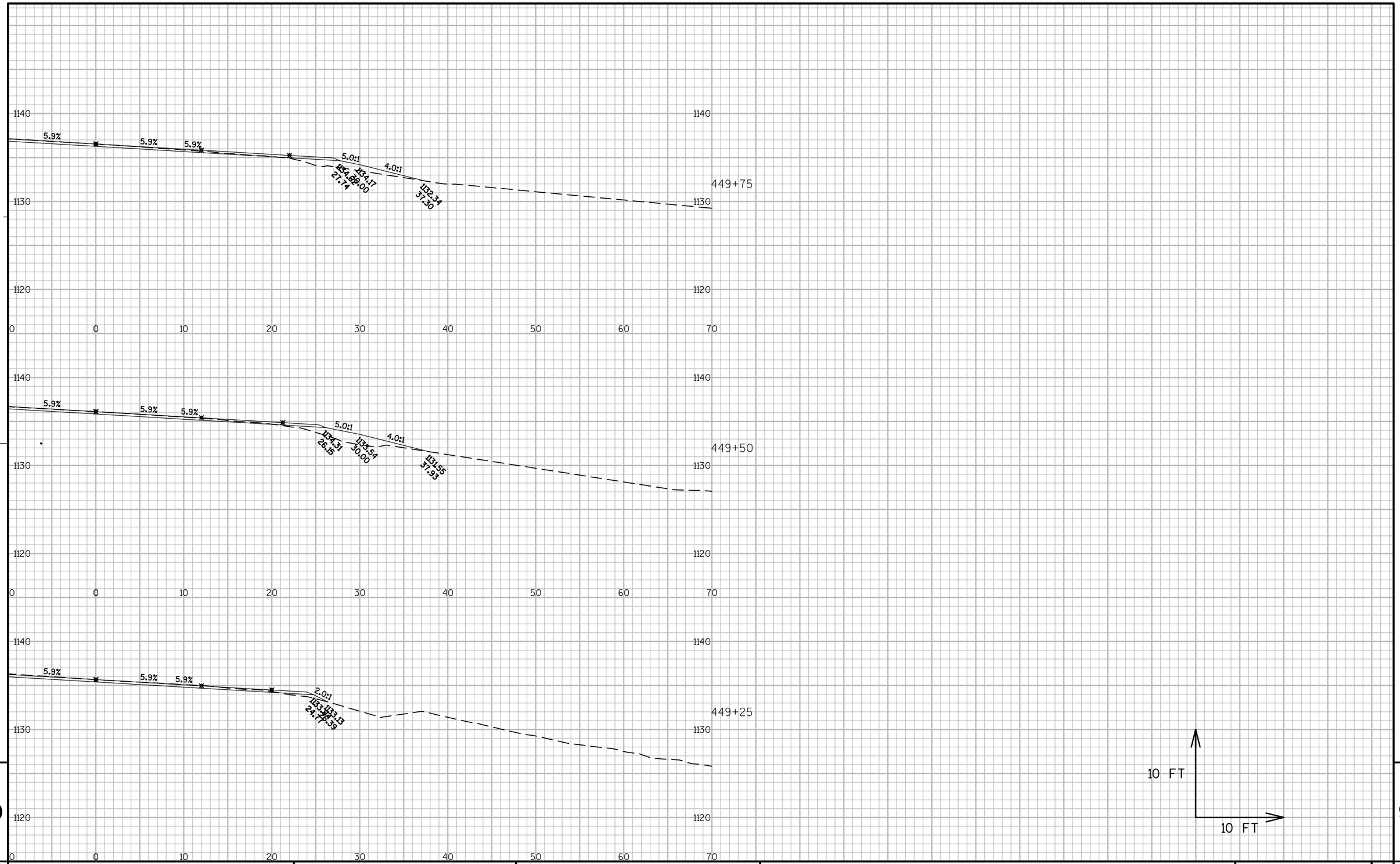
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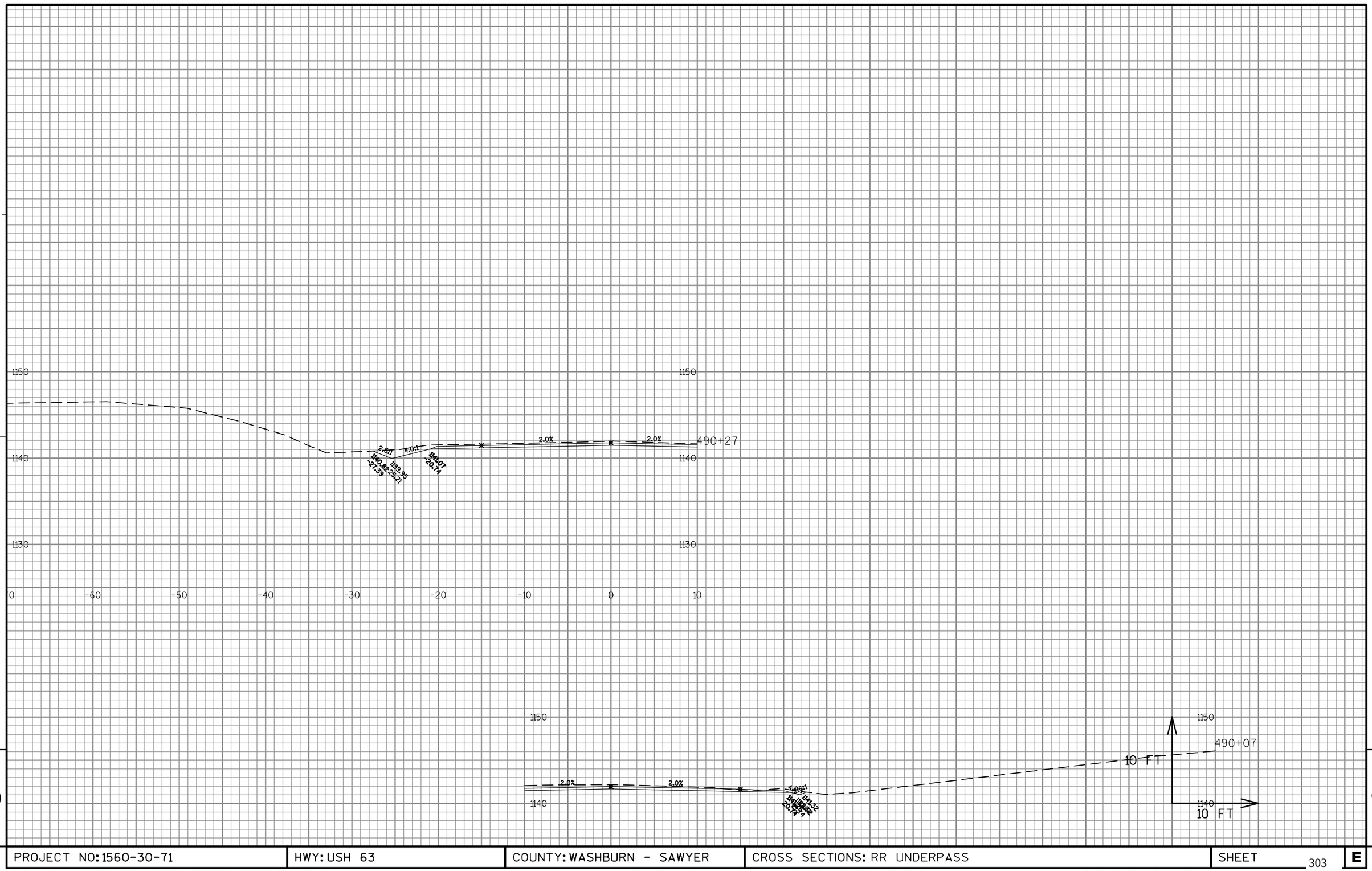
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: BEAMGUARD AT BRICKMAN LAKE ROAD	SHEET 301	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-BRICKMAN-BMGRD.DWG PLOT DATE : 2/17/2015 10:35 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: BEAMGUARD AT BRICKMAN LAKE ROAD	SHEET 302	E



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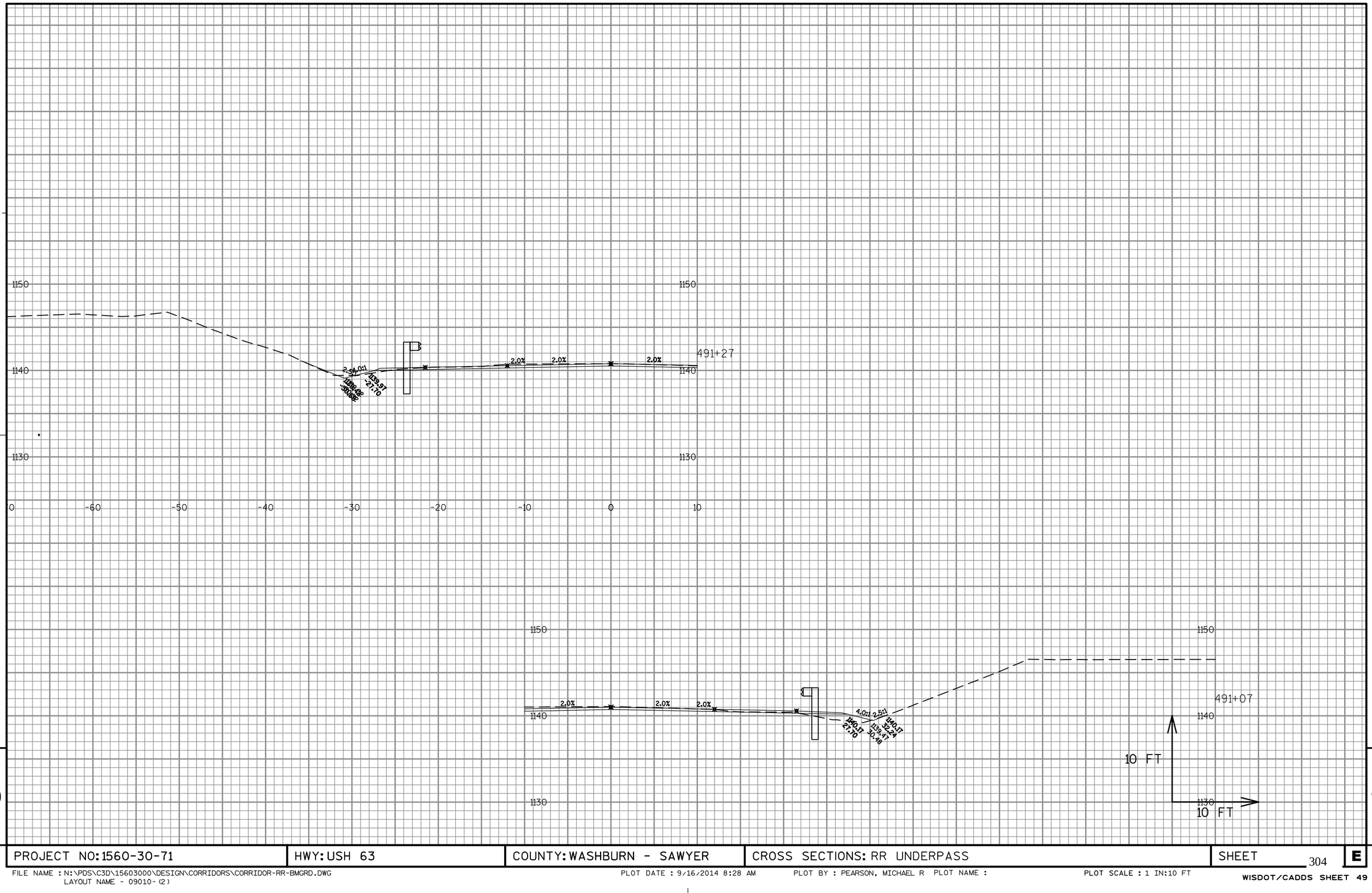
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: RR UNDERPASS	SHEET 303	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-RR-BMGRD.DWG
LAYOUT NAME - 09010-(1)

PLOT DATE : 9/16/2014 8:27 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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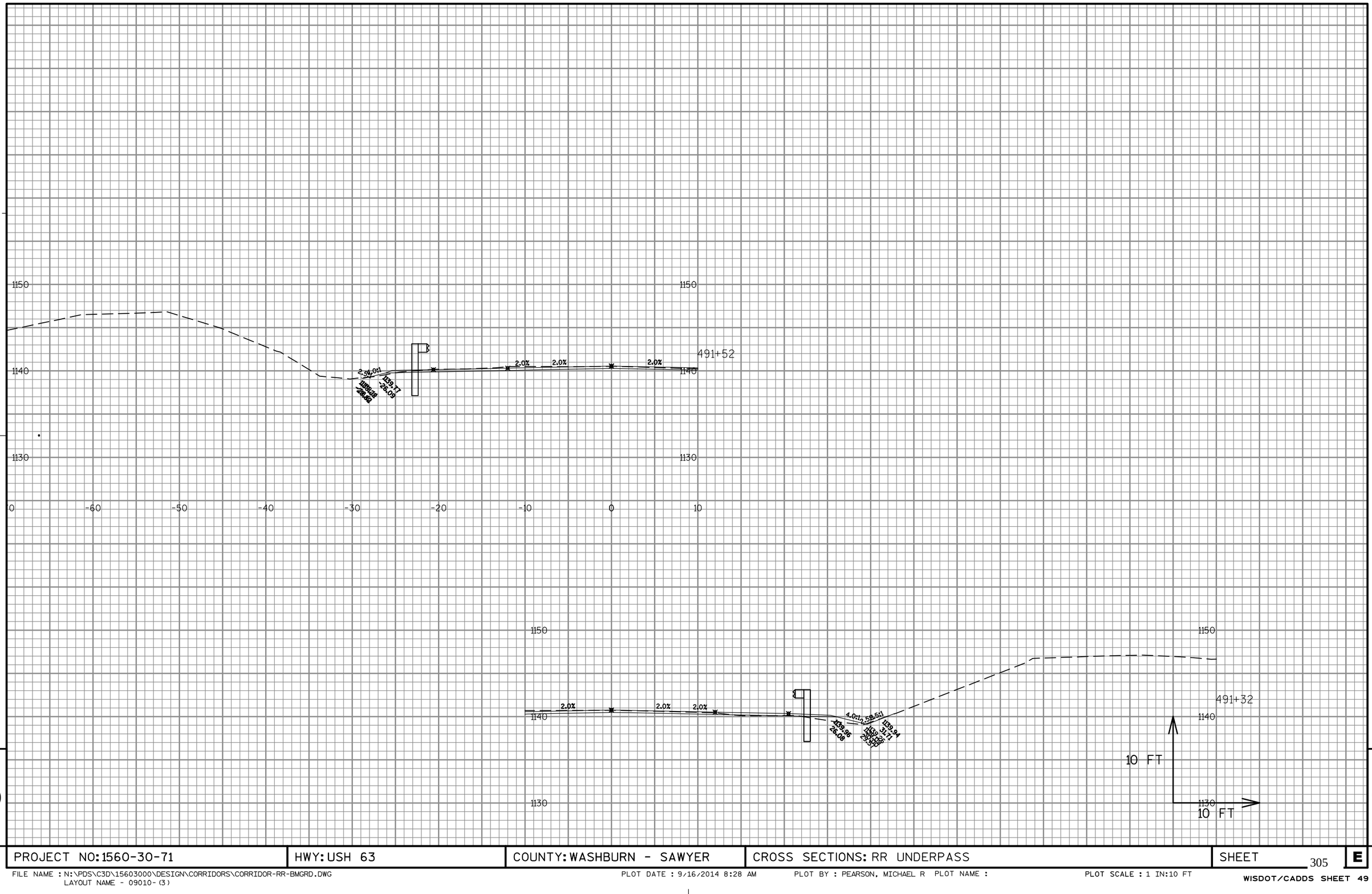
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: RR UNDERPASS	SHEET 304	E

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FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-RR-BMGRD.DWG
LAYOUT NAME - 09010-(2)

PLOT DATE : 9/16/2014 8:28 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

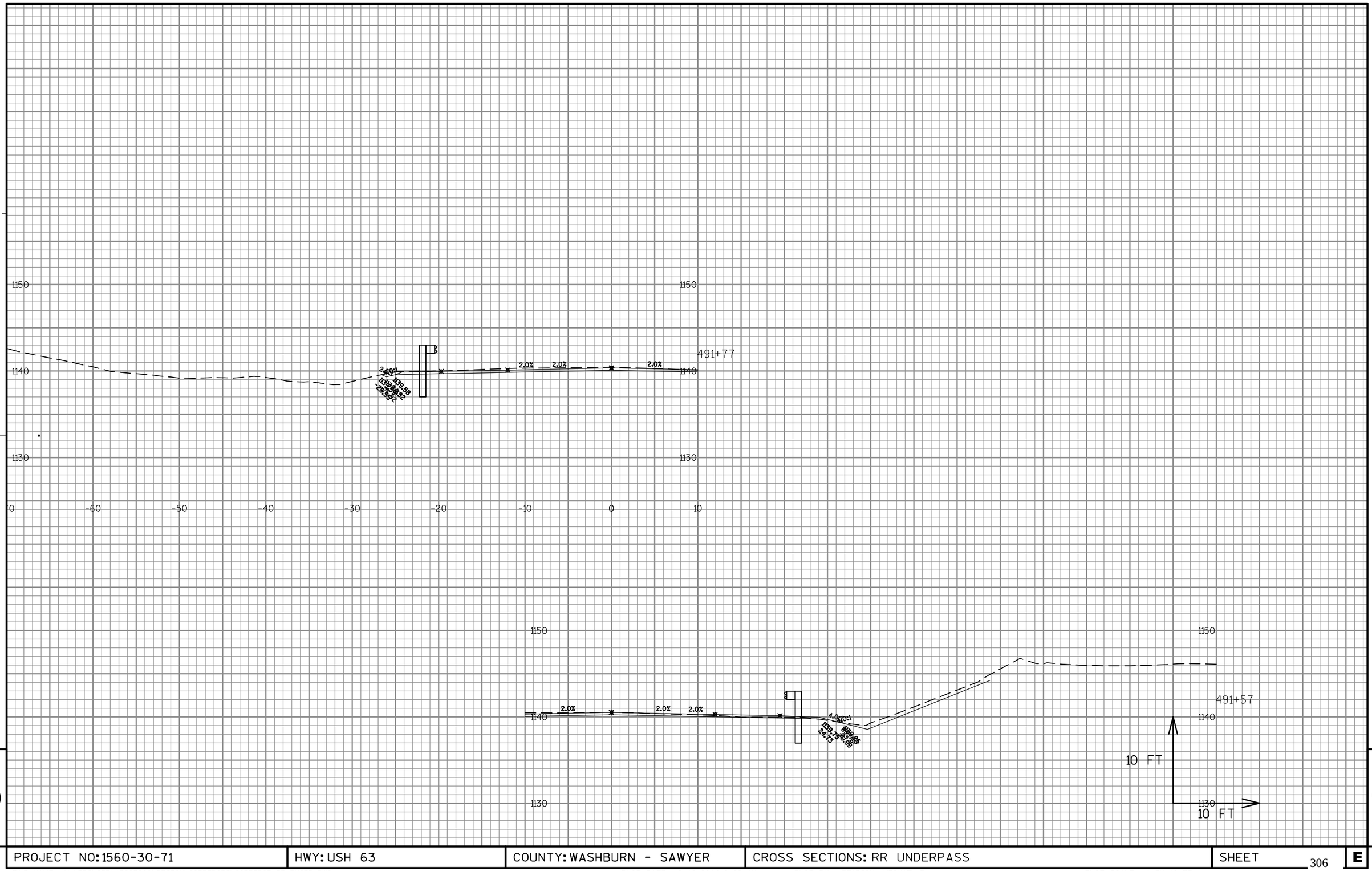
WISDOT/CADDS SHEET 49



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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: RR UNDERPASS	SHEET 305	E



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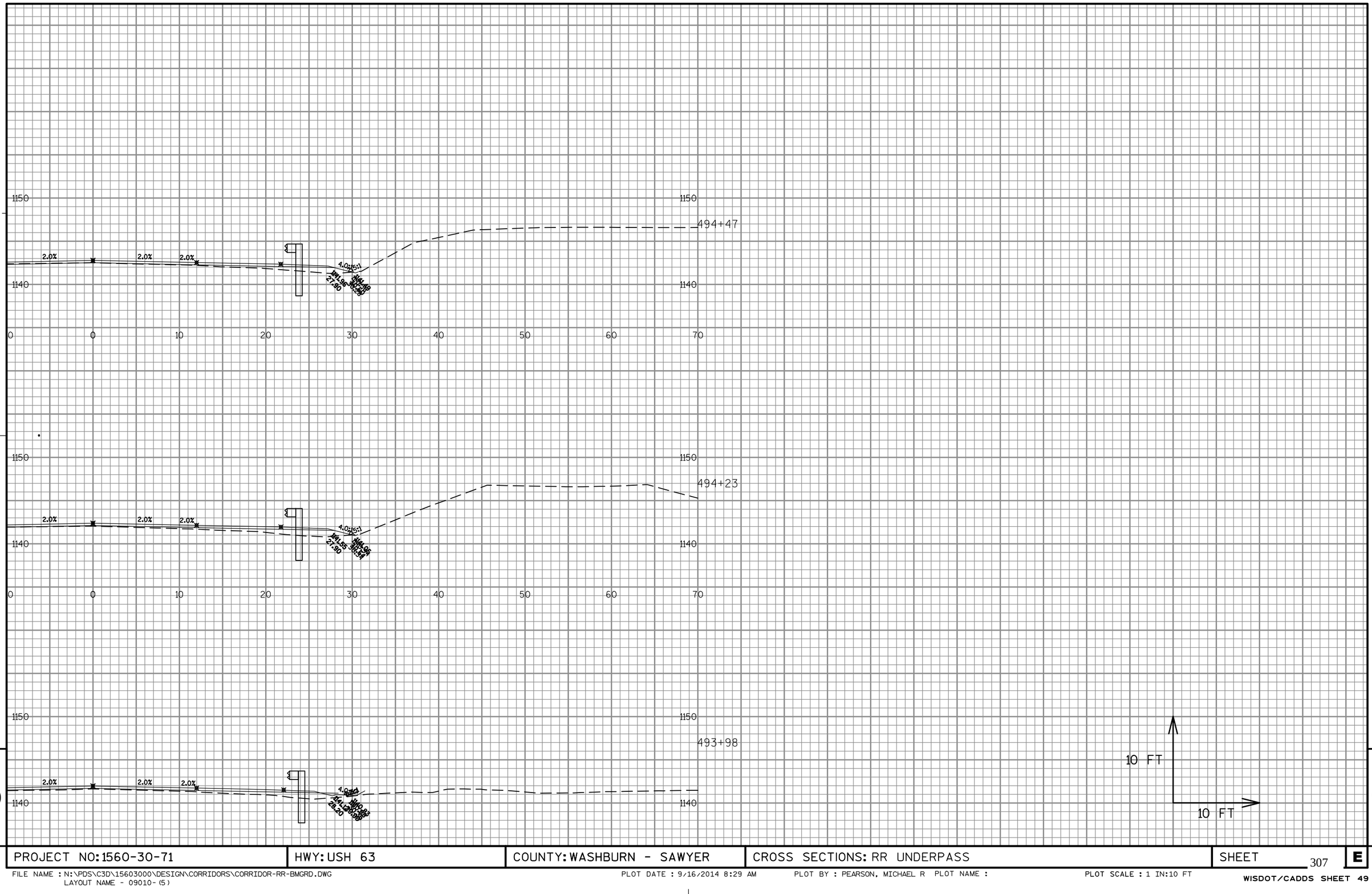
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: RR UNDERPASS	SHEET 306	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-RR-BMGRD.DWG
LAYOUT NAME - 09010-(4)

PLOT DATE : 9/16/2014 8:29 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME :

PLOT SCALE : 1 IN:10 FT

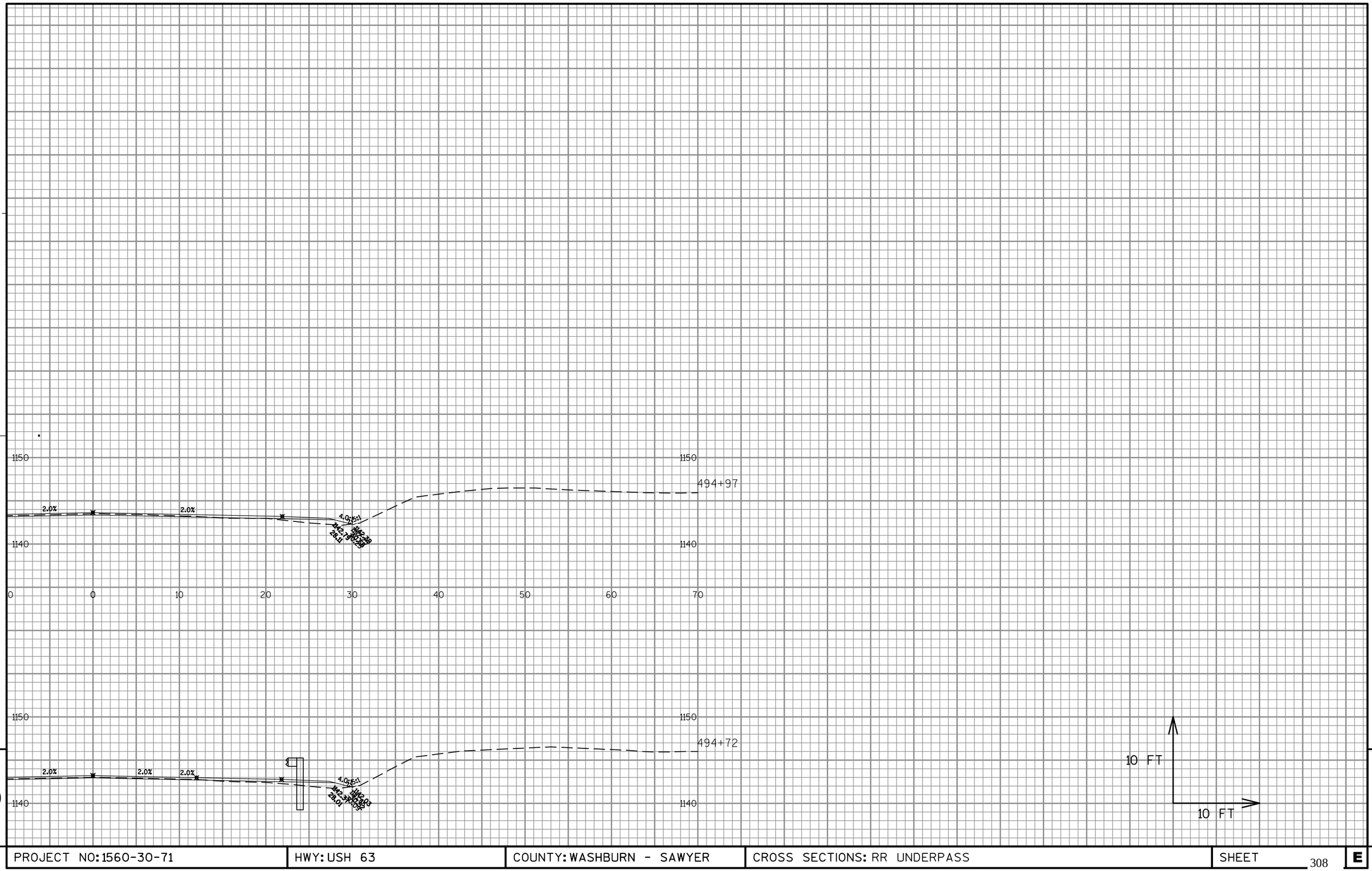
WISDOT/CADDS SHEET 49



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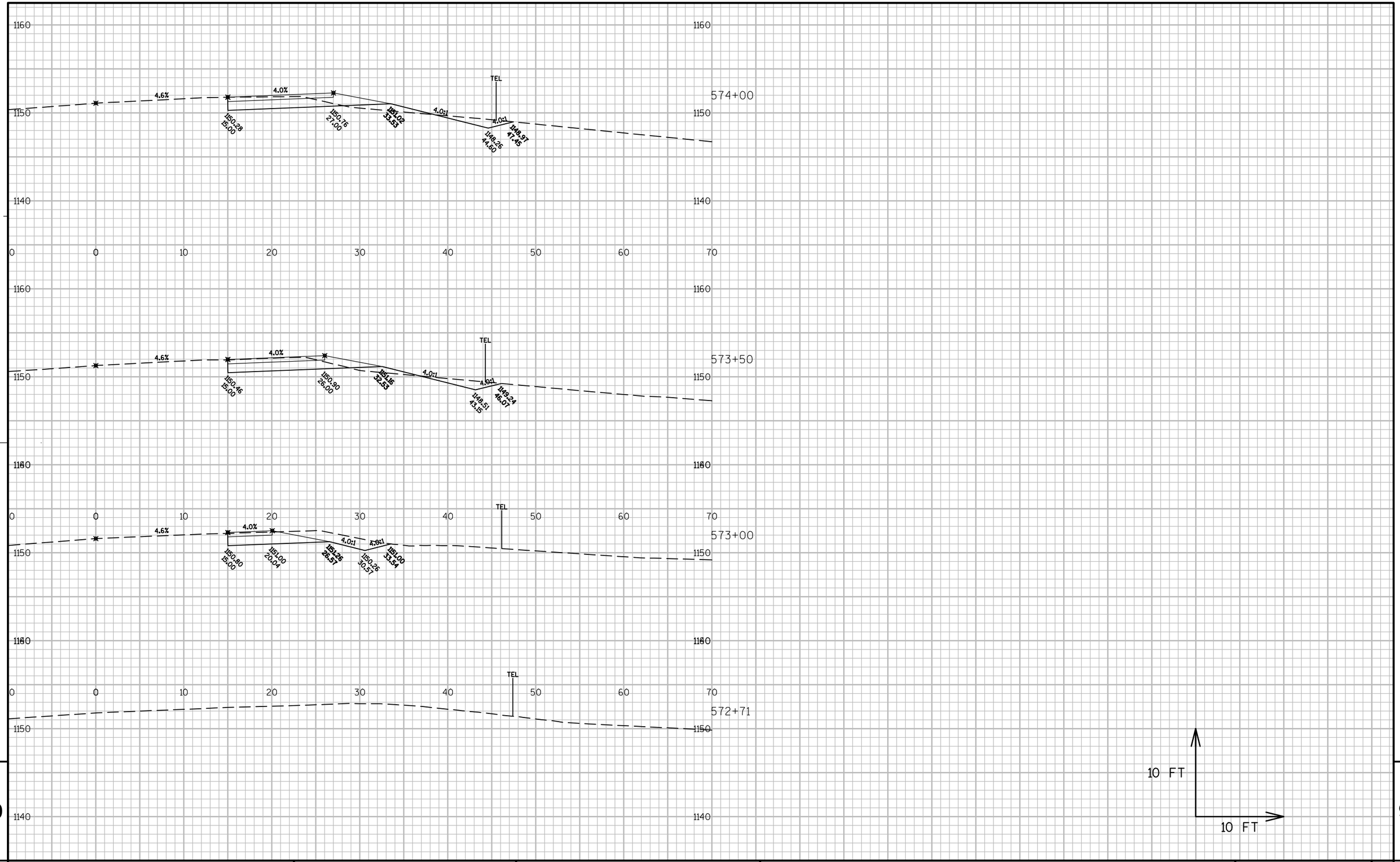
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: RR UNDERPASS	SHEET 307	E



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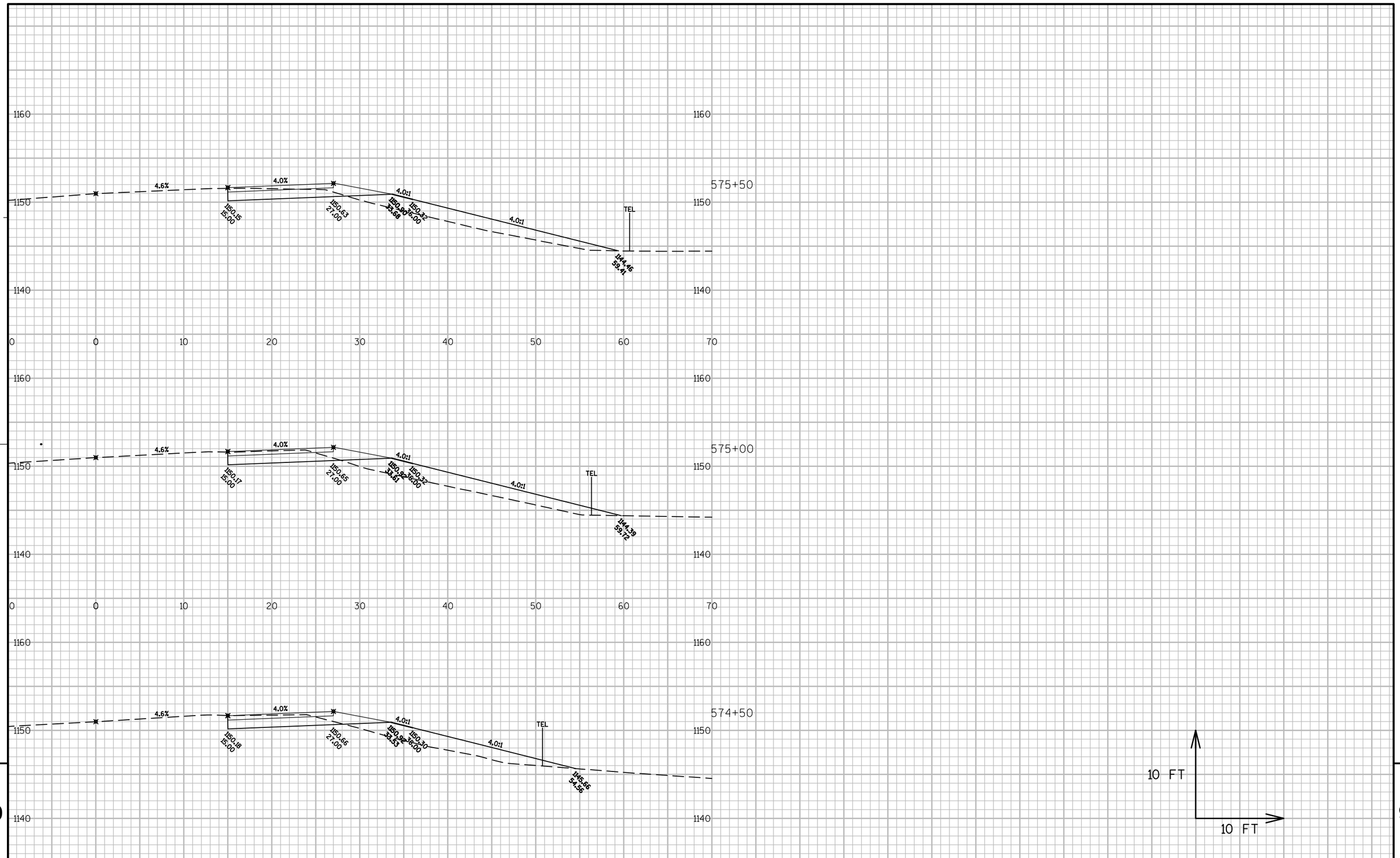
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: RR UNDERPASS	SHEET 308	E



PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: CTH E TURN LANE	SHEET 309	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-CTH E.DWG PLOT DATE : 2/5/2015 3:16 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

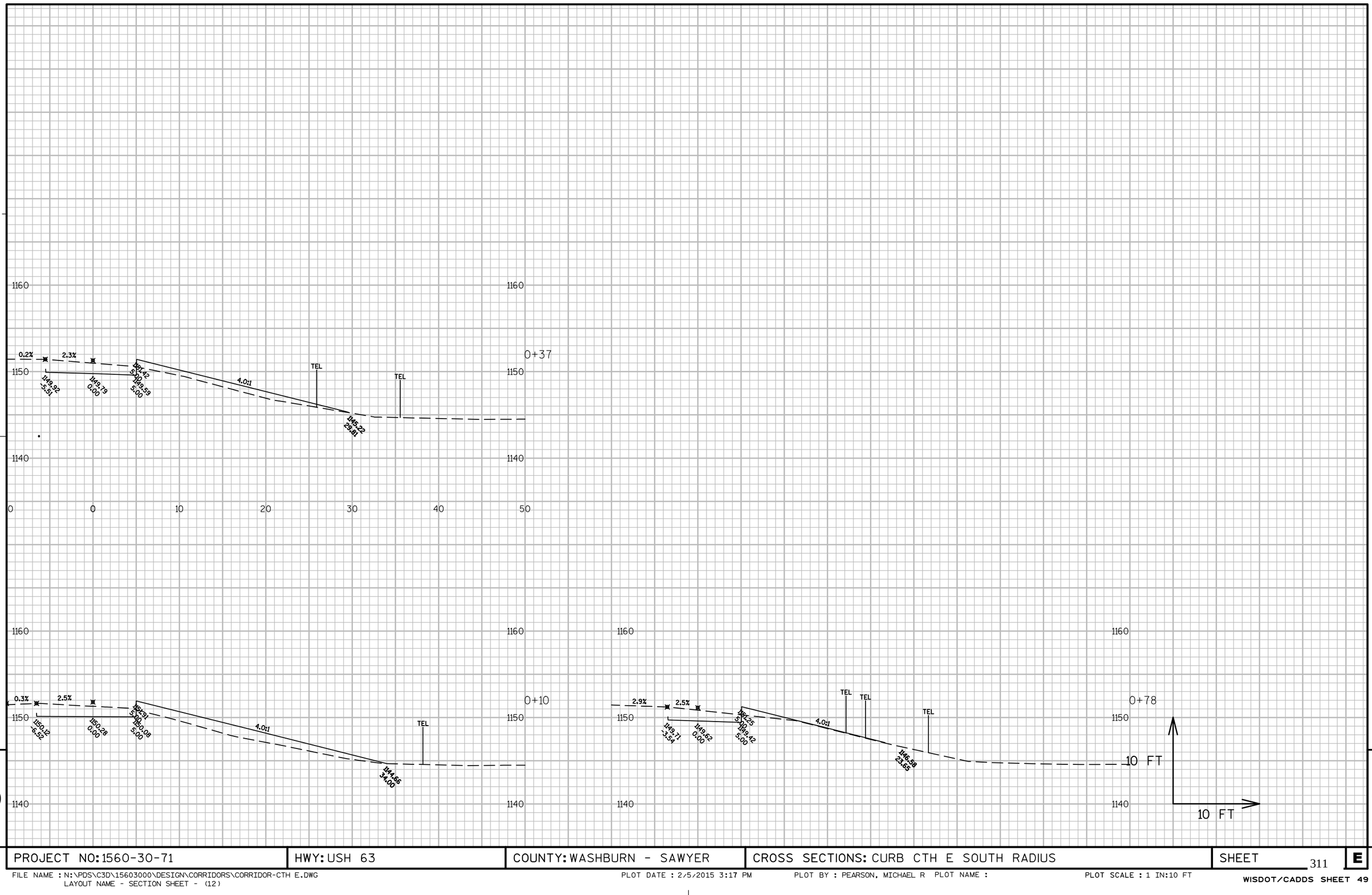
WISDOT/CADDS SHEET 49



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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: CTH E TURN LANE	SHEET 310	E

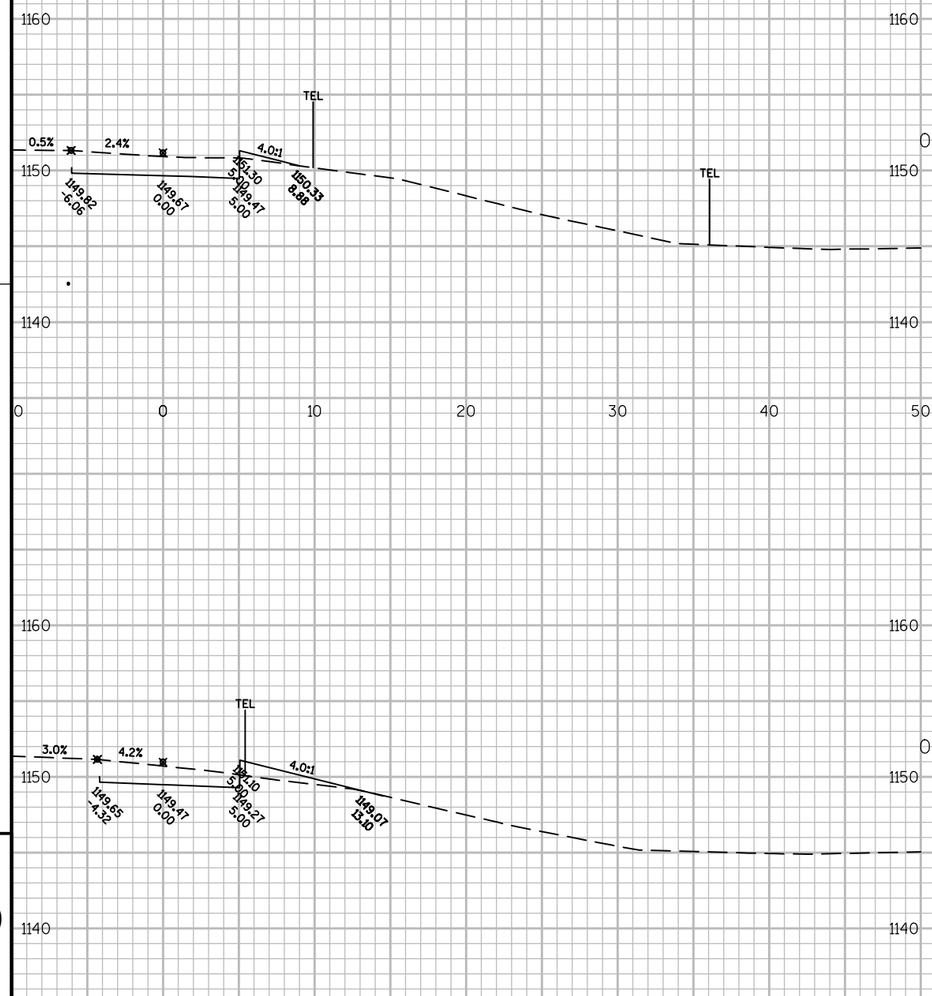


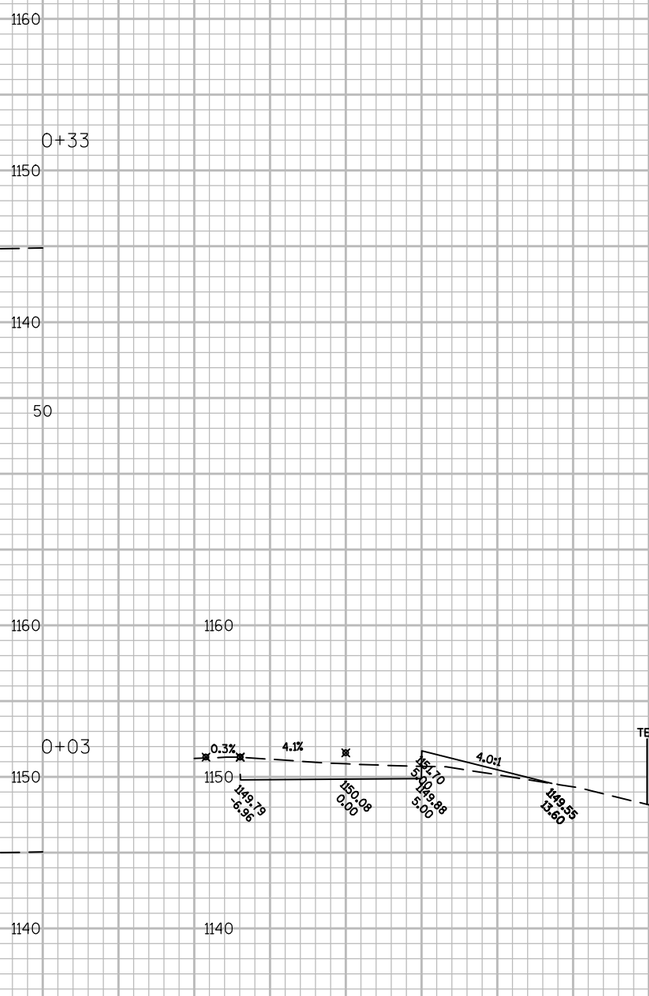
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: CURB CTH E SOUTH RADIUS	SHEET 311	E

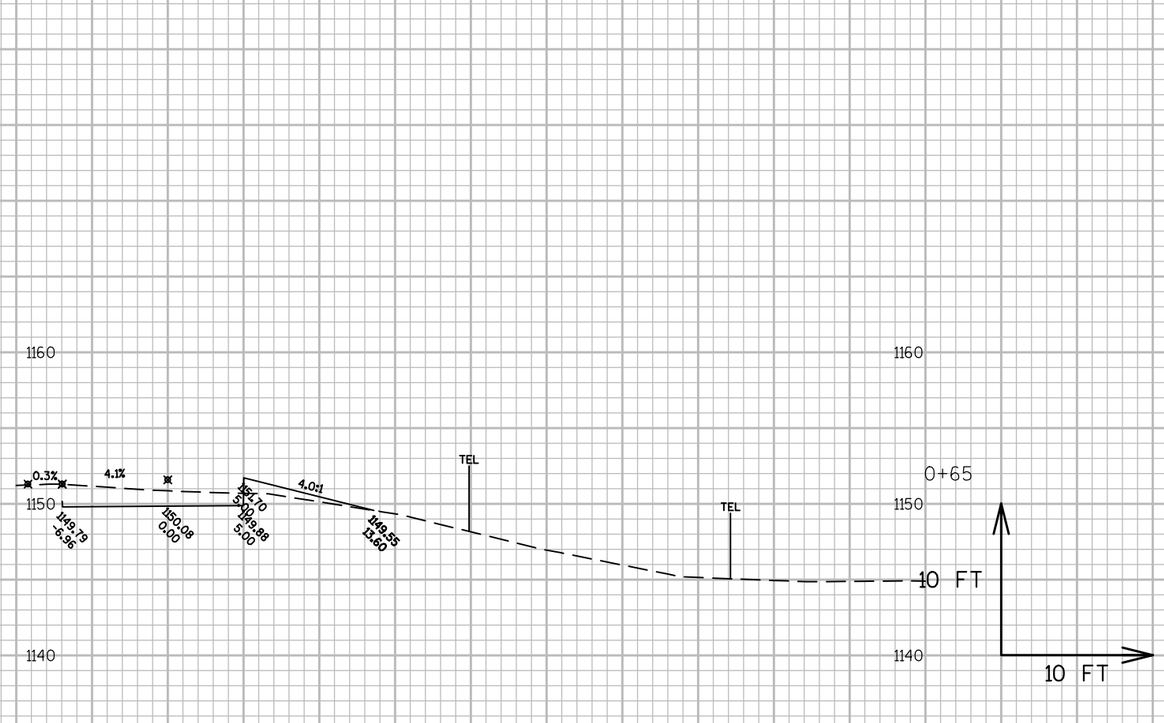
FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-CTH E.DWG
LAYOUT NAME - SECTION SHEET - (12)

PLOT DATE : 2/5/2015 3:17 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49







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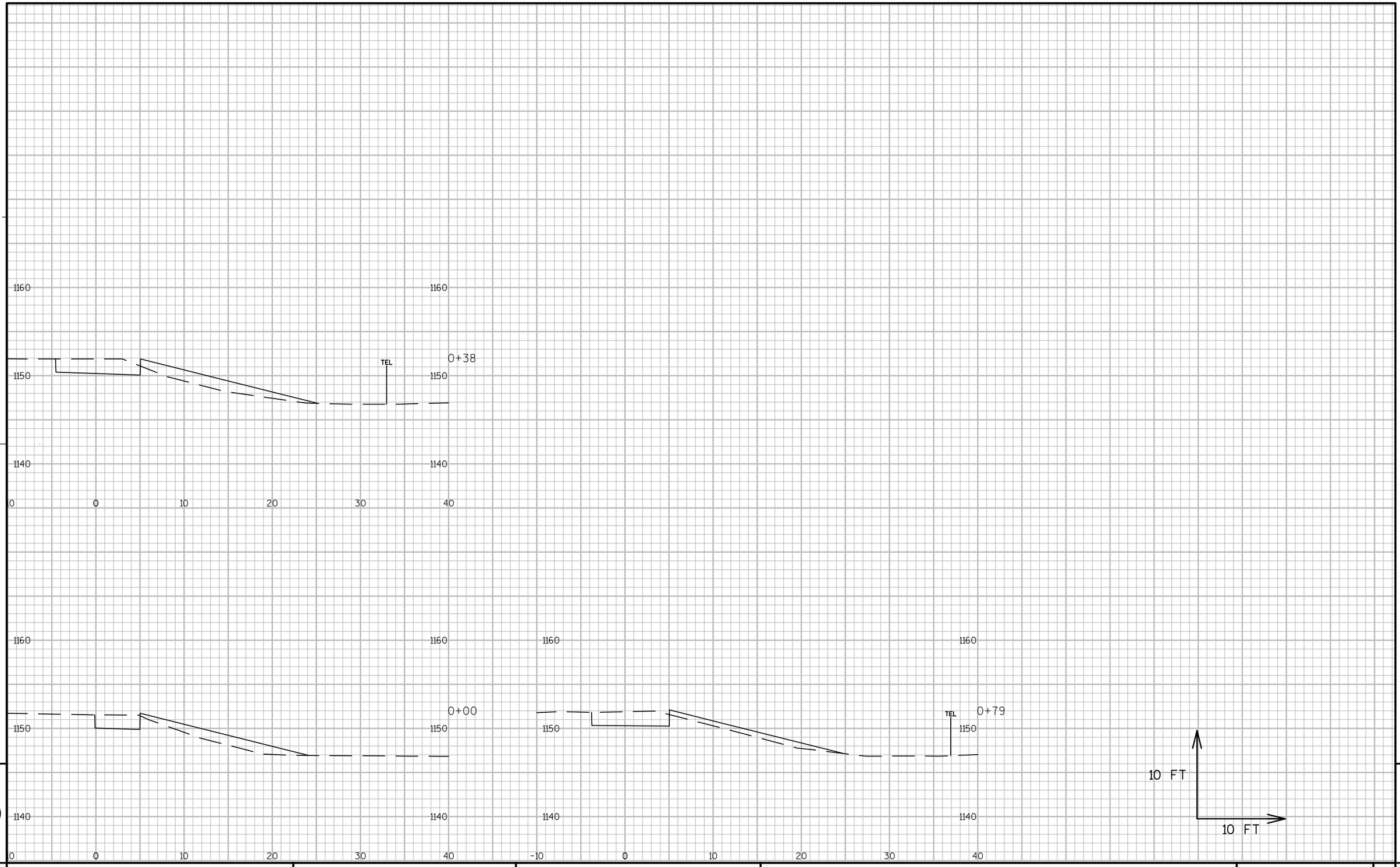
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: CURB CTH E NORTH RADIUS	SHEET 312	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-CTH E.DWG
LAYOUT NAME - SECTION SHEET - (10)

PLOT DATE : 2/5/2015 3:17 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

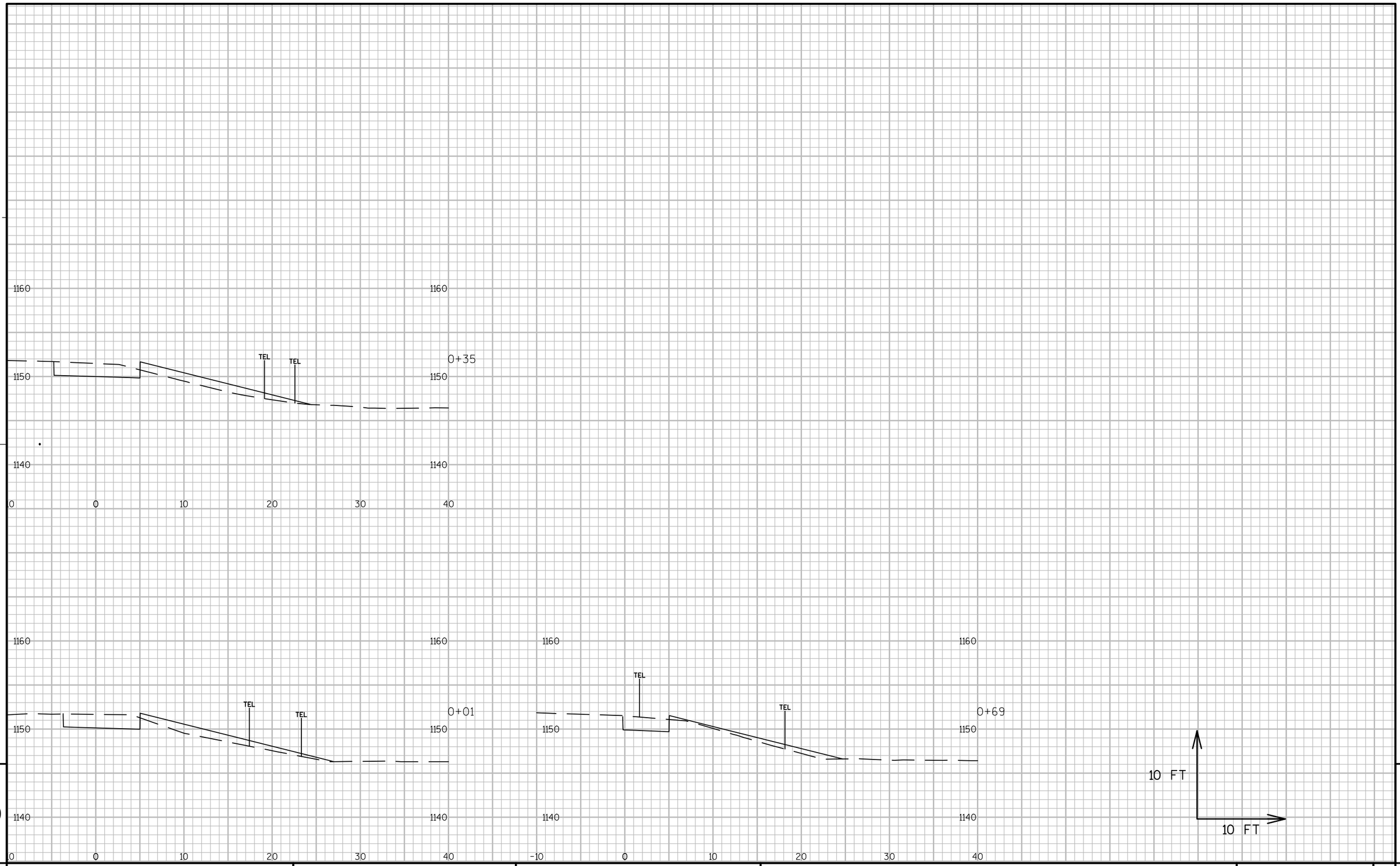
WISDOT/CADDS SHEET 49



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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: STINNETT LANDING NORTH RADIUS	SHEET 313	E

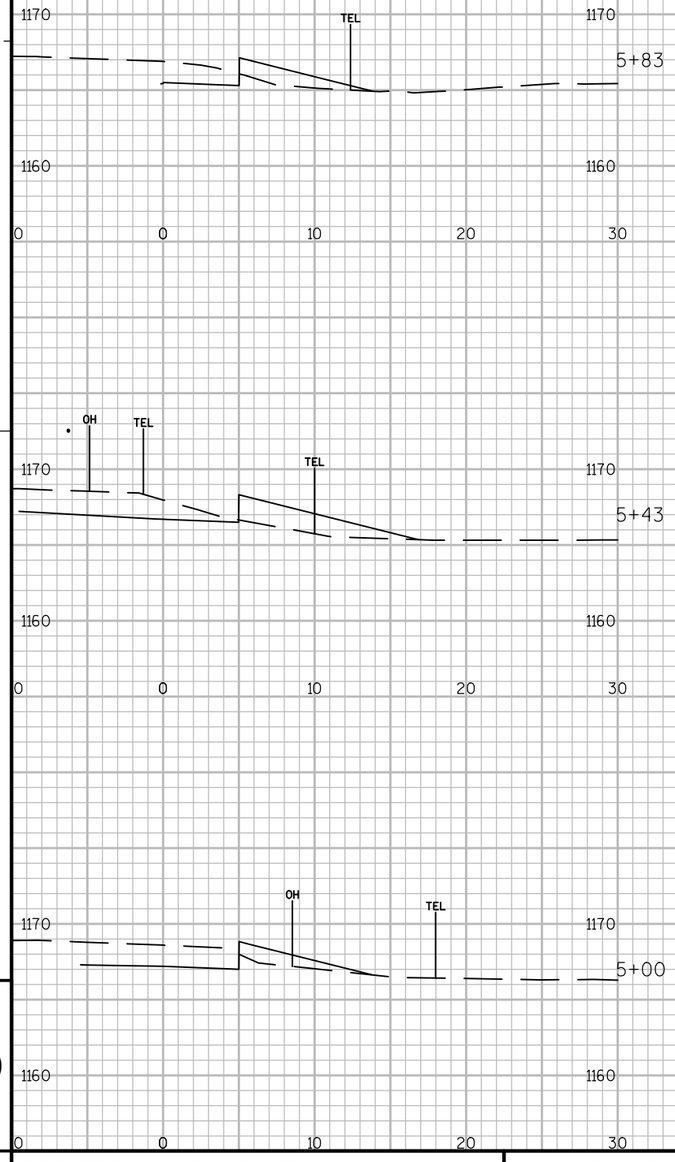


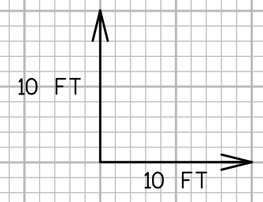
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: STINNETT LANDING SOUTH RADIUS	SHEET 314	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\STINNETT CURB CORRIDOR.DWG
LAYOUT NAME - SECTION SHEET - (2)

PLOT DATE : 2/6/2015 7:47 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



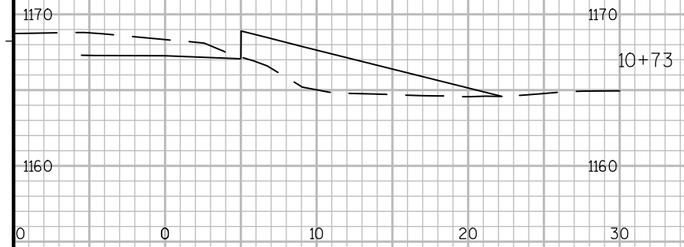


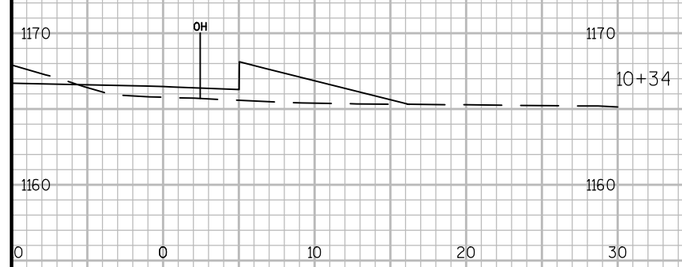
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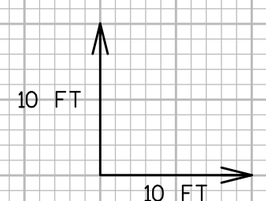
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: RIVER ROAD SOUTH RADIUS	SHEET 315	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-RIVER ALLEY.DWG
LAYOUT NAME - SECTION SHEET - (1)
PLOT DATE : 2/5/2015 10:02 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49









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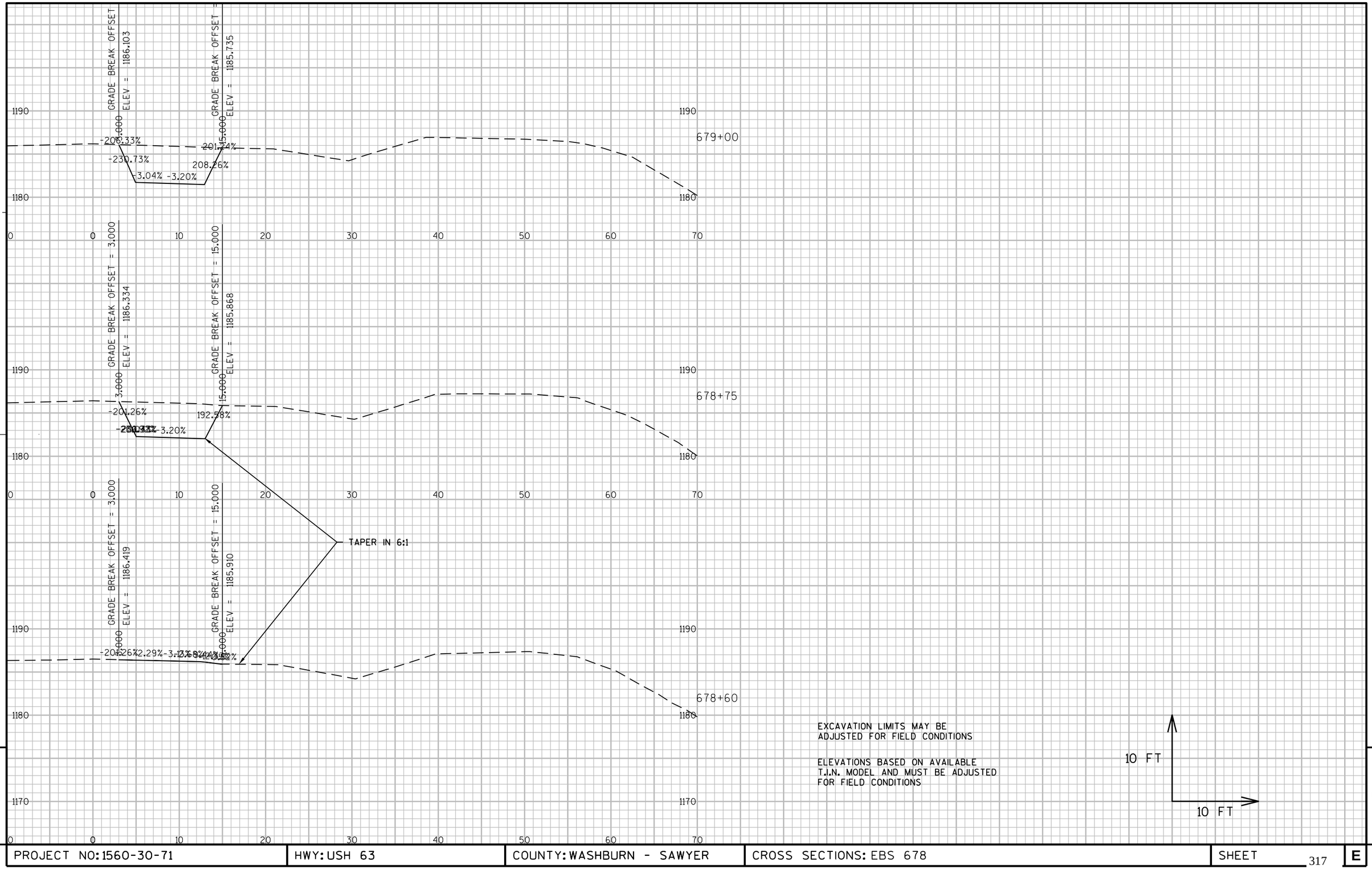
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: RIVER ROAD NORTH RADIUS	SHEET 316	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-RIVER ALLEY.DWG
LAYOUT NAME - SECTION SHEET - (2)

PLOT DATE : 2/5/2015 10:02 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



EXCAVATION LIMITS MAY BE
ADJUSTED FOR FIELD CONDITIONS

ELEVATIONS BASED ON AVAILABLE
T.I.N. MODEL AND MUST BE ADJUSTED
FOR FIELD CONDITIONS

10 FT

10 FT

9

9

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: EBS 678	SHEET 317	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\EBS 678.DWG
LAYOUT NAME - SECTION SHEET - (1)

PLOT DATE : 6/25/2014 10:28 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

1190
1180
1170
0 0 10 20 30 40 50 60 70

679+70

GRADE BREAK OFFSET = 3.000
ELEV = 1185.719
3.000
GRADE BREAK OFFSET = 15.000
ELEV = 1185.302
15.000

TAPER OUT 6:1

-286.40%
-2.92%
-3.10%
221.72%

679+49

EXCAVATION LIMITS MAY BE
ADJUSTED FOR FIELD CONDITIONS

ELEVATIONS BASED ON AVAILABLE
T.I.N. MODEL AND MUST BE ADJUSTED
FOR FIELD CONDITIONS

10 FT
10 FT

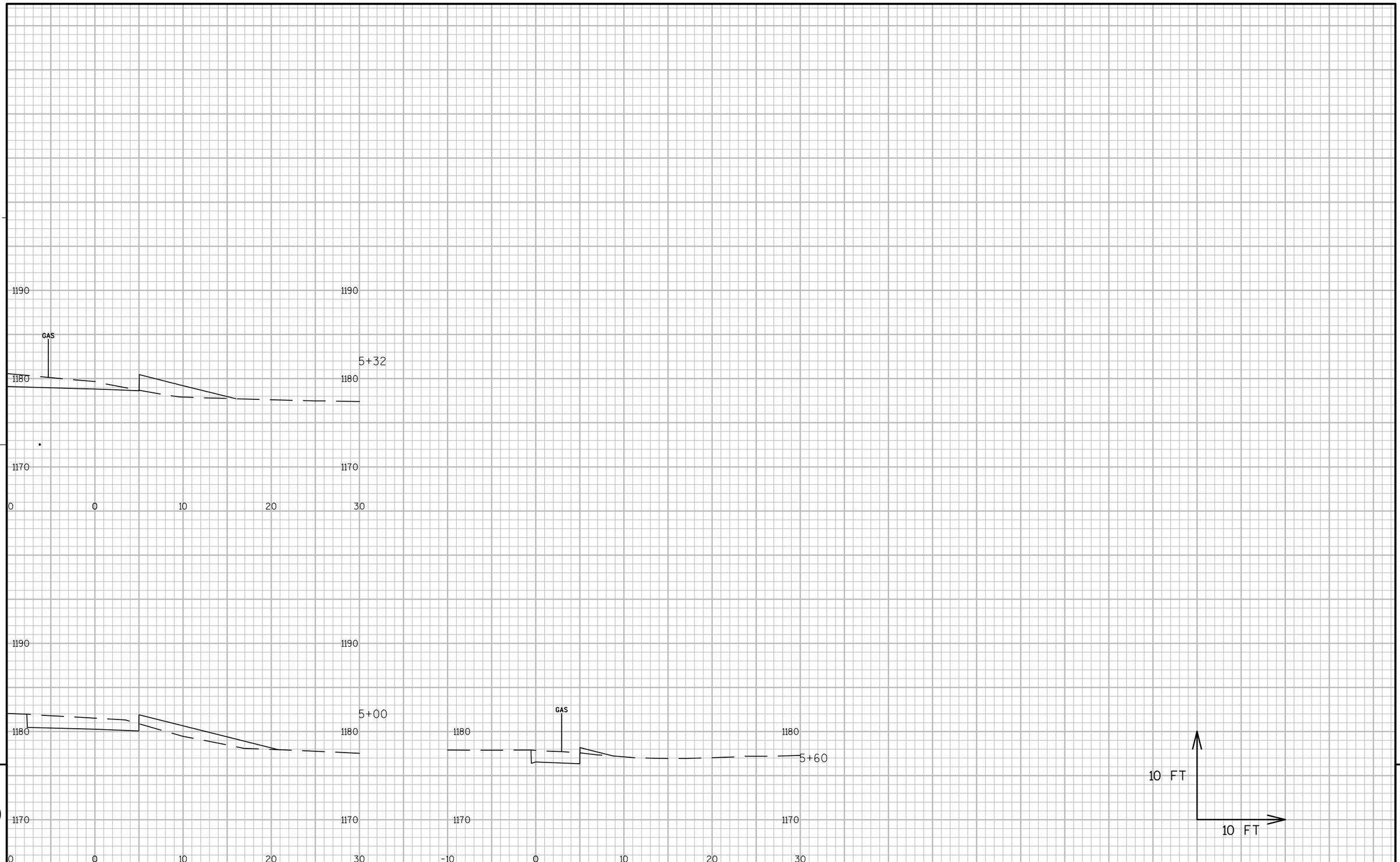
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: EBS 678	SHEET 318	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\EBS 678.DWG
LAYOUT NAME - SECTION SHEET - (2)

PLOT DATE : 6/25/2014 10:28 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

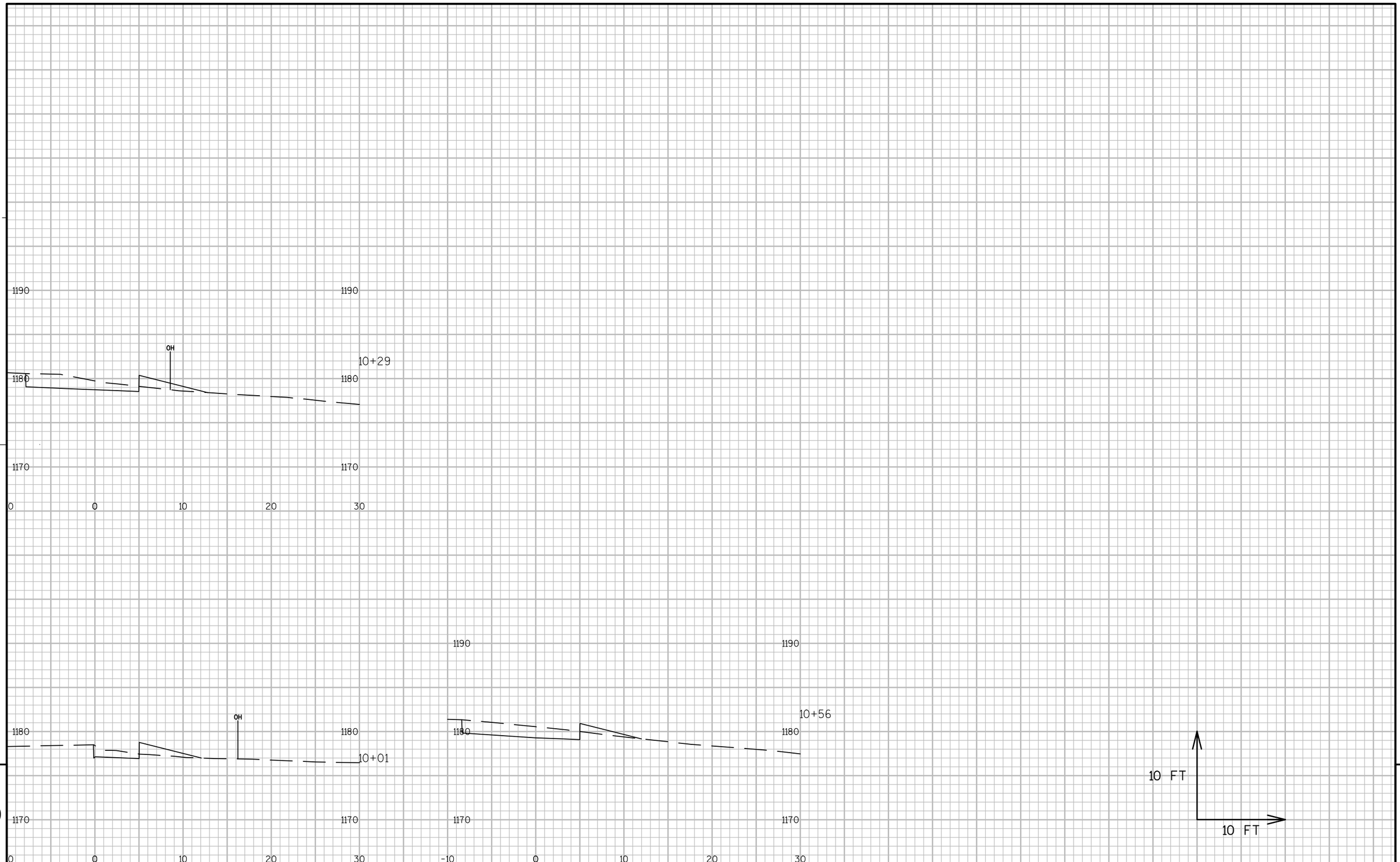
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: RIVER ALLEY SOUTH RADIUS	SHEET 319	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\CORRIDOR-RIVER ALLEY.DWG
LAYOUT NAME - SECTION SHEET - (3)

PLOT DATE : 2/5/2015 10:03 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

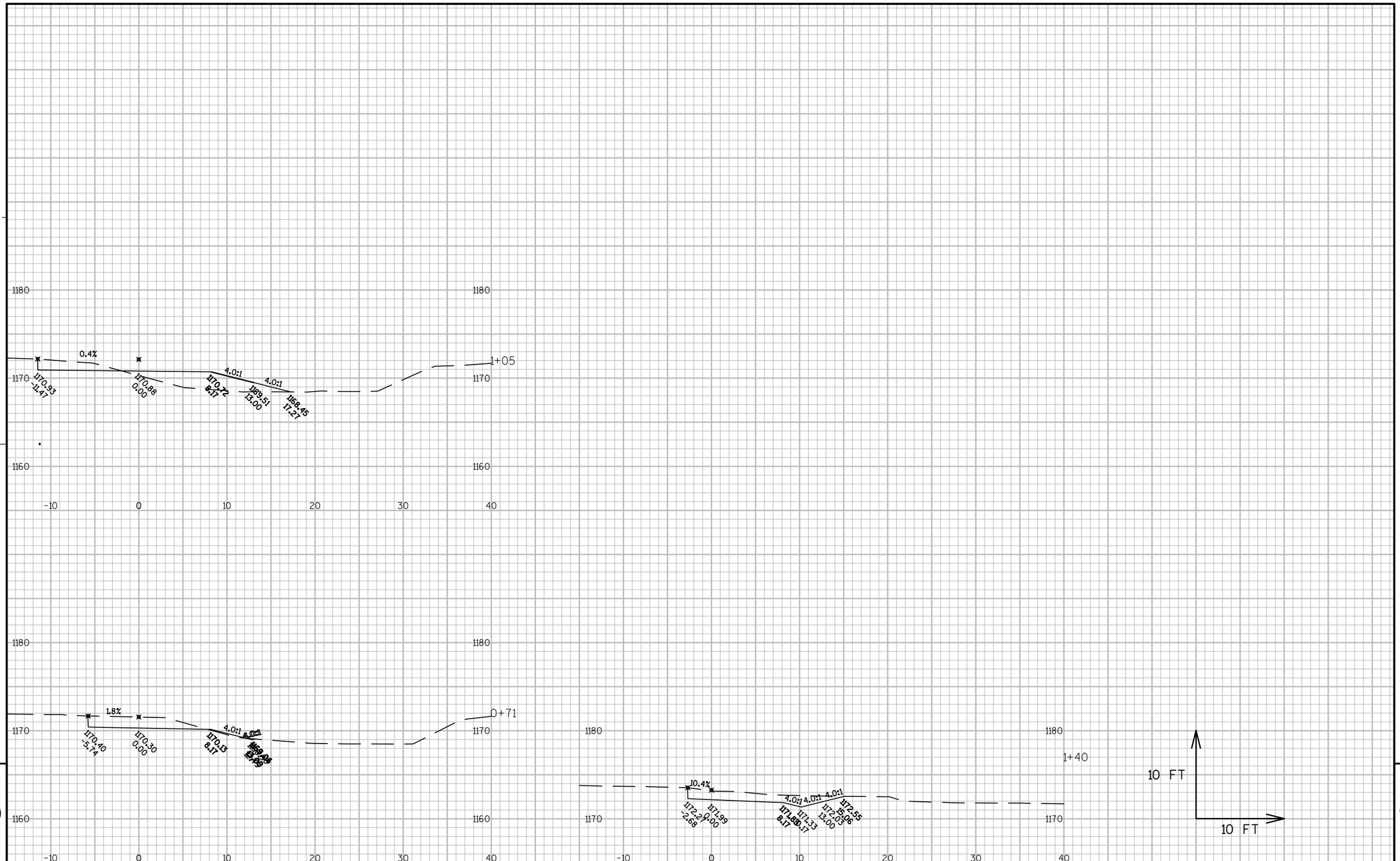
WISDOT/CADDS SHEET 49



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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: RIVER ALLEY NORTH RADIUS	SHEET 320	E

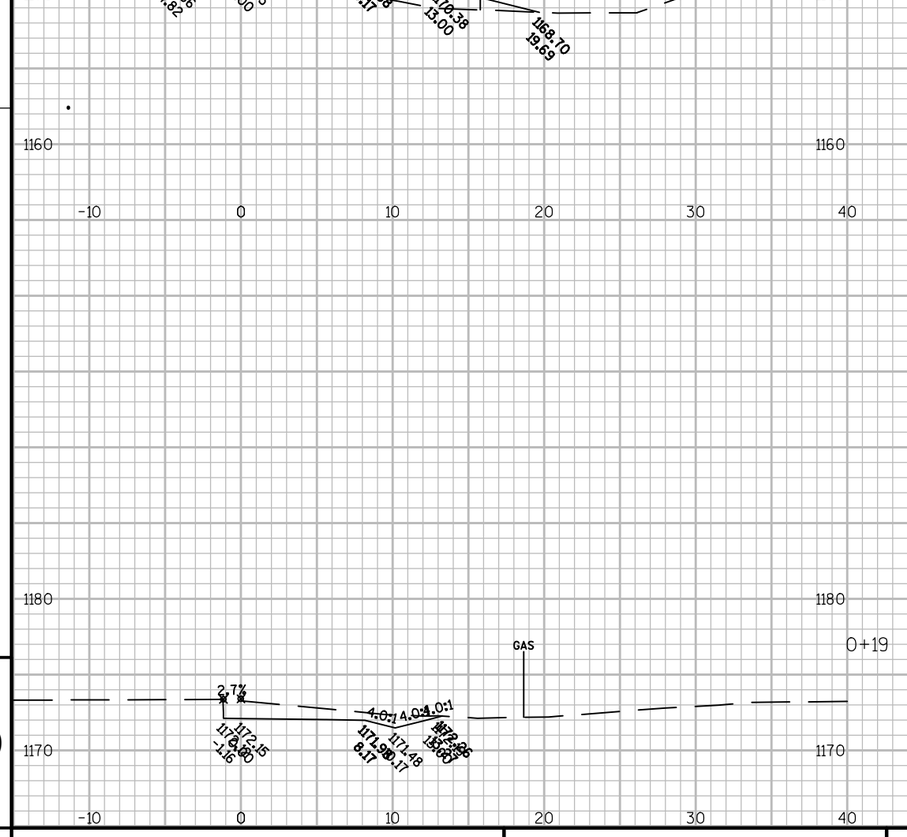


PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: BOYS CAMP RADIUS SOUTH	SHEET 321	E

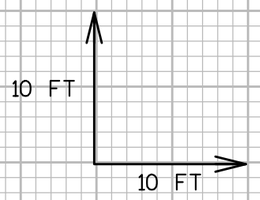
FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR-BOY CAMP-SAW.DWG
LAYOUT NAME - SECTION SHEET - (5)

PLOT DATE : 2/5/2015 10:41 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49







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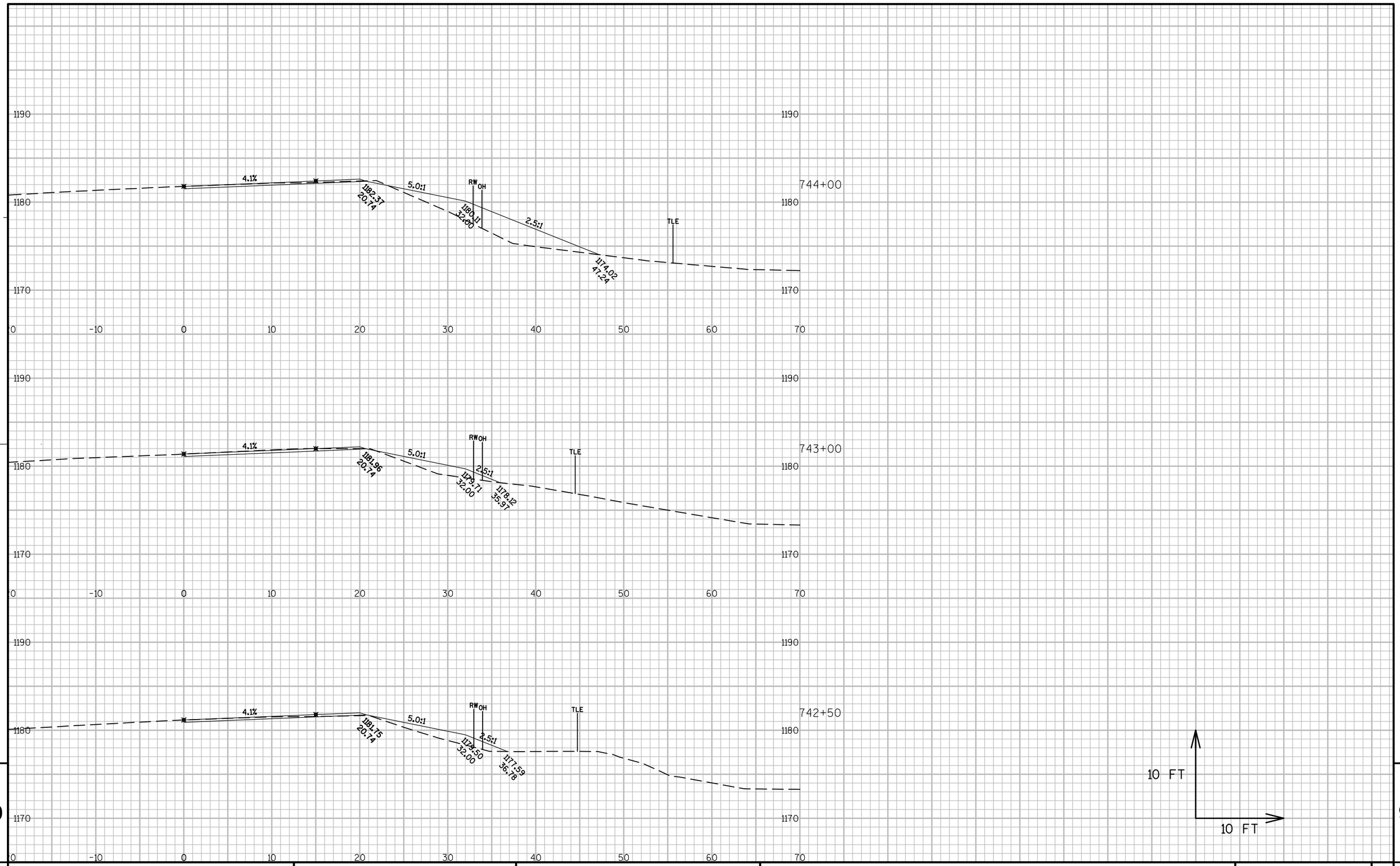
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: BOYS CAMP RADIUS NORTH	SHEET 322	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR-BOY CAMP-SAW.DWG
LAYOUT NAME - SECTION SHEET - (6)

PLOT DATE : 2/5/2015 10:42 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

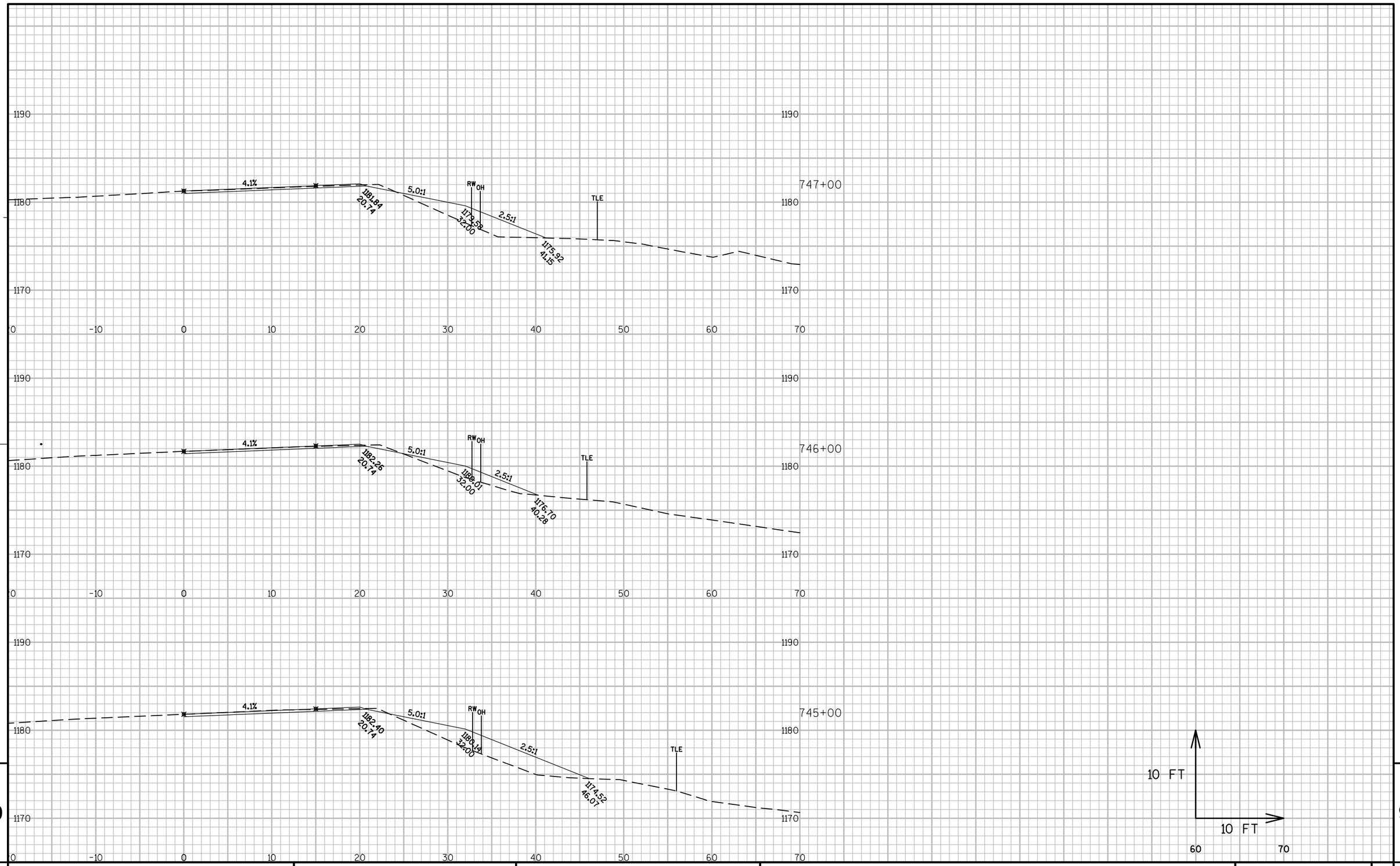


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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: FILL 742	SHEET 323	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR-743-FILL.DWG PLOT DATE : 2/25/2015 3:01 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

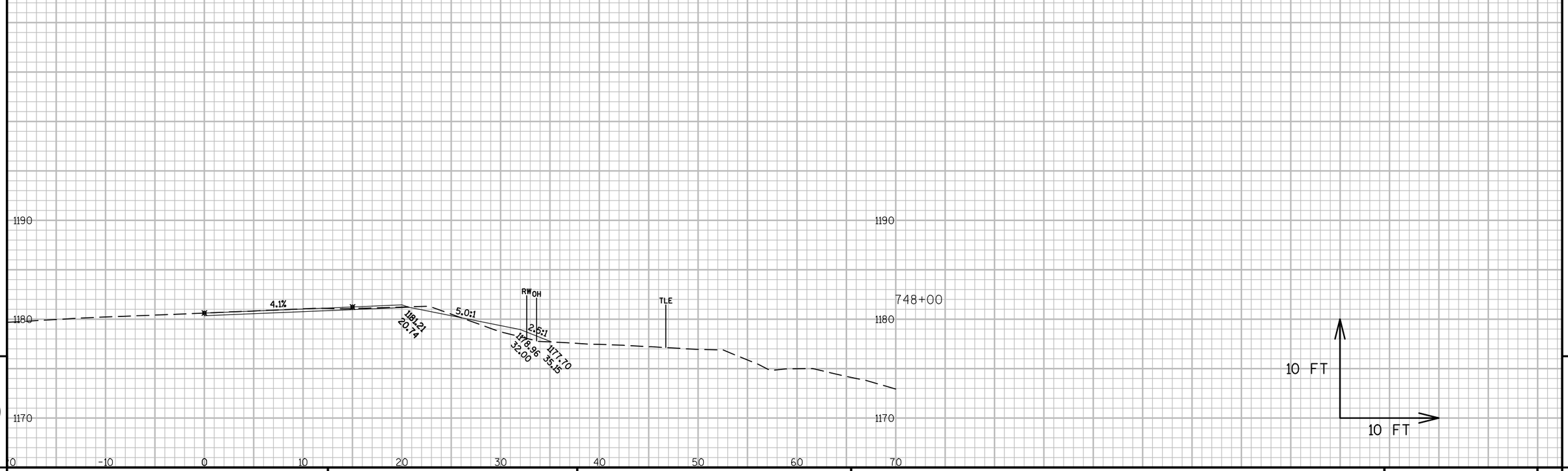


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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: FILL 742	SHEET 324	E

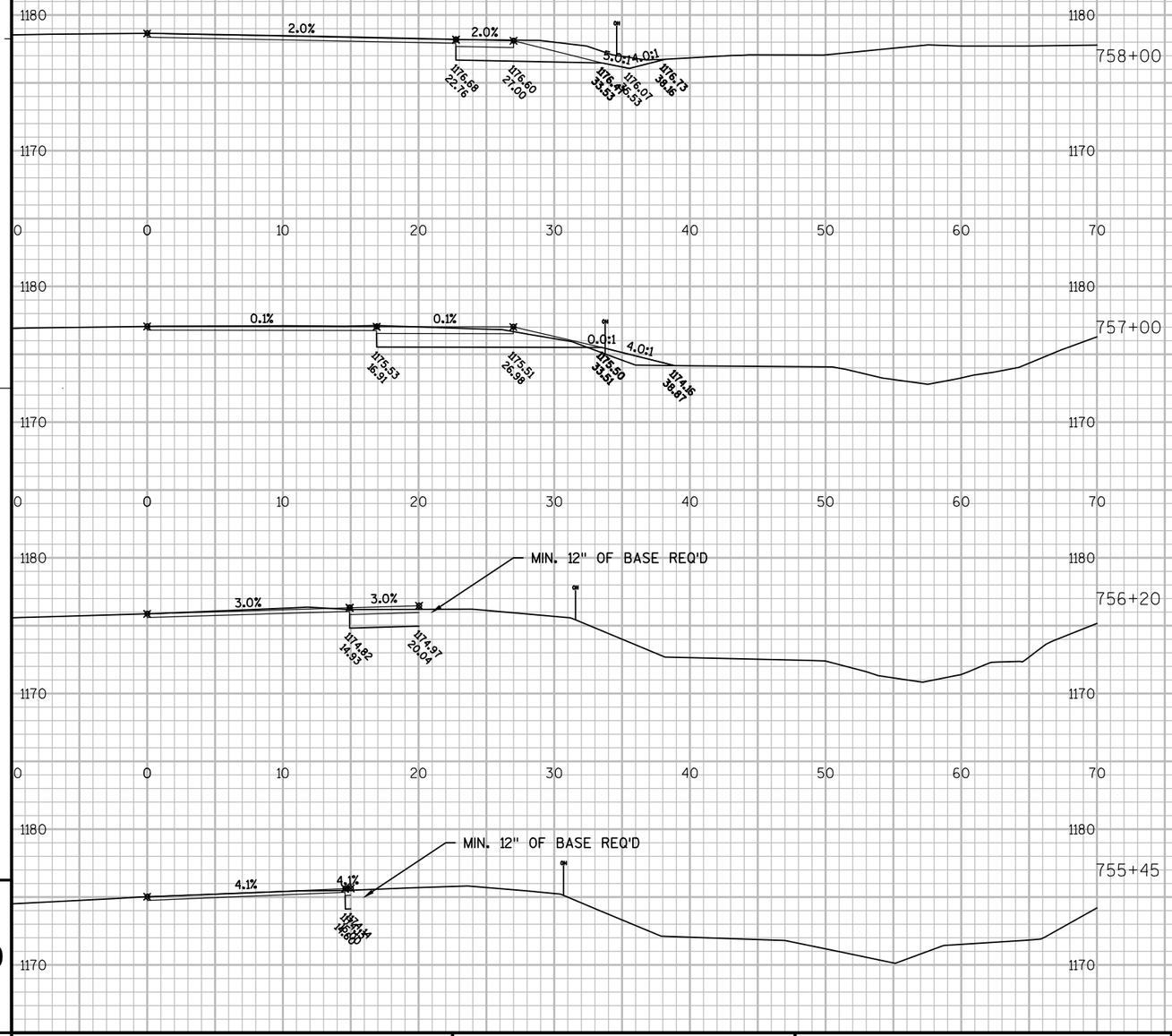
FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR-743-FILL.DWG PLOT DATE : 2/25/2015 3:01 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT



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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: FILL 742	SHEET 325	E



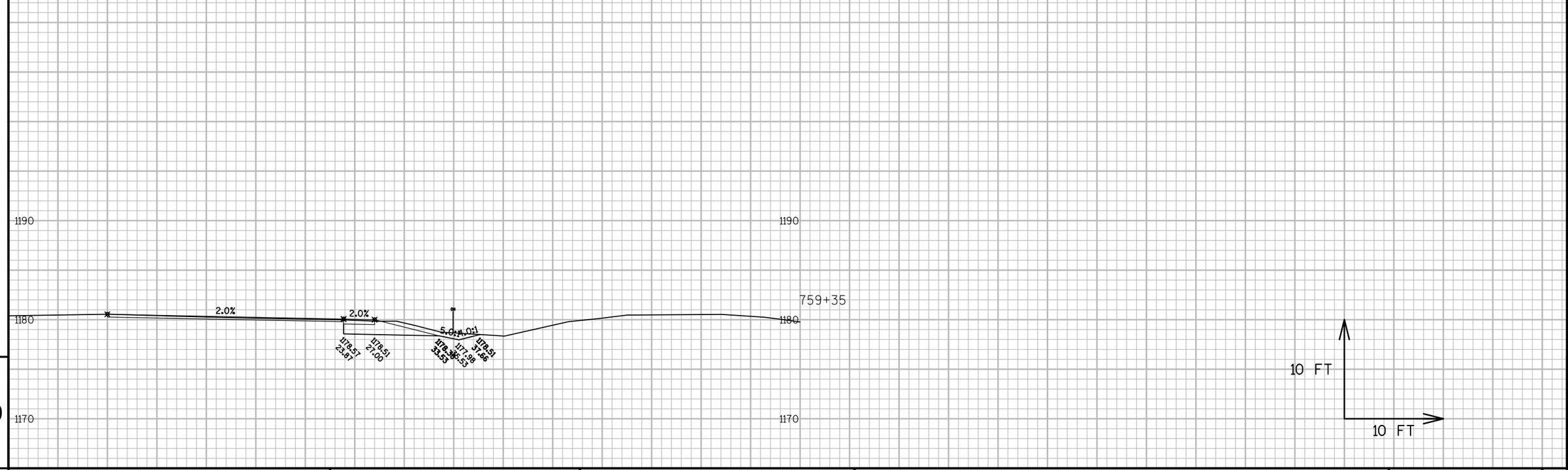
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: L P PLANT TURN LANE	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\CORRIDOR-LP-SAWER.DWG PLOT DATE : 9/29/2014 11:09 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



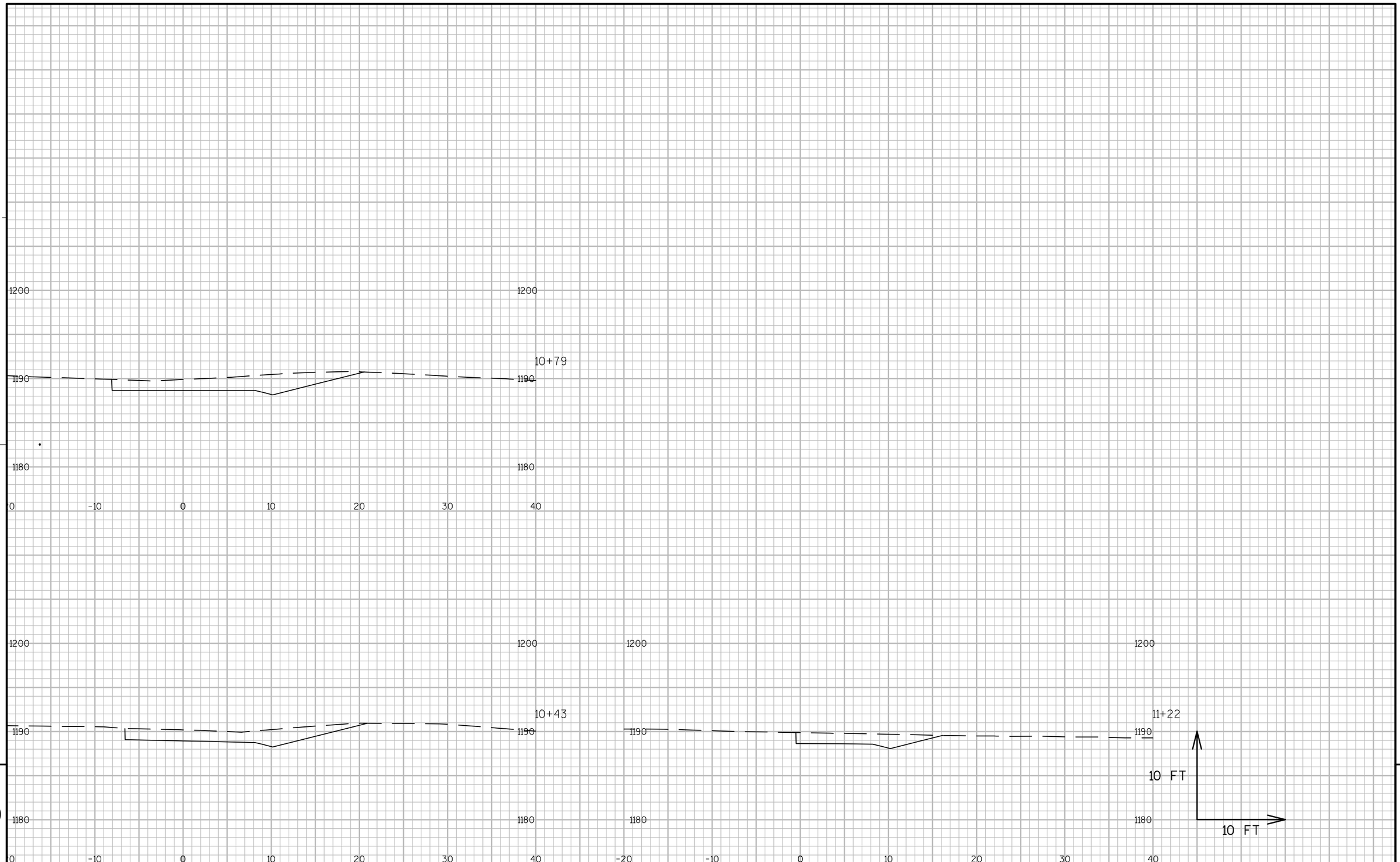
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: L P PLANT TURN LANE	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\CORRIDOR-LP-SAWER.DWG PLOT DATE : 9/29/2014 11:09 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

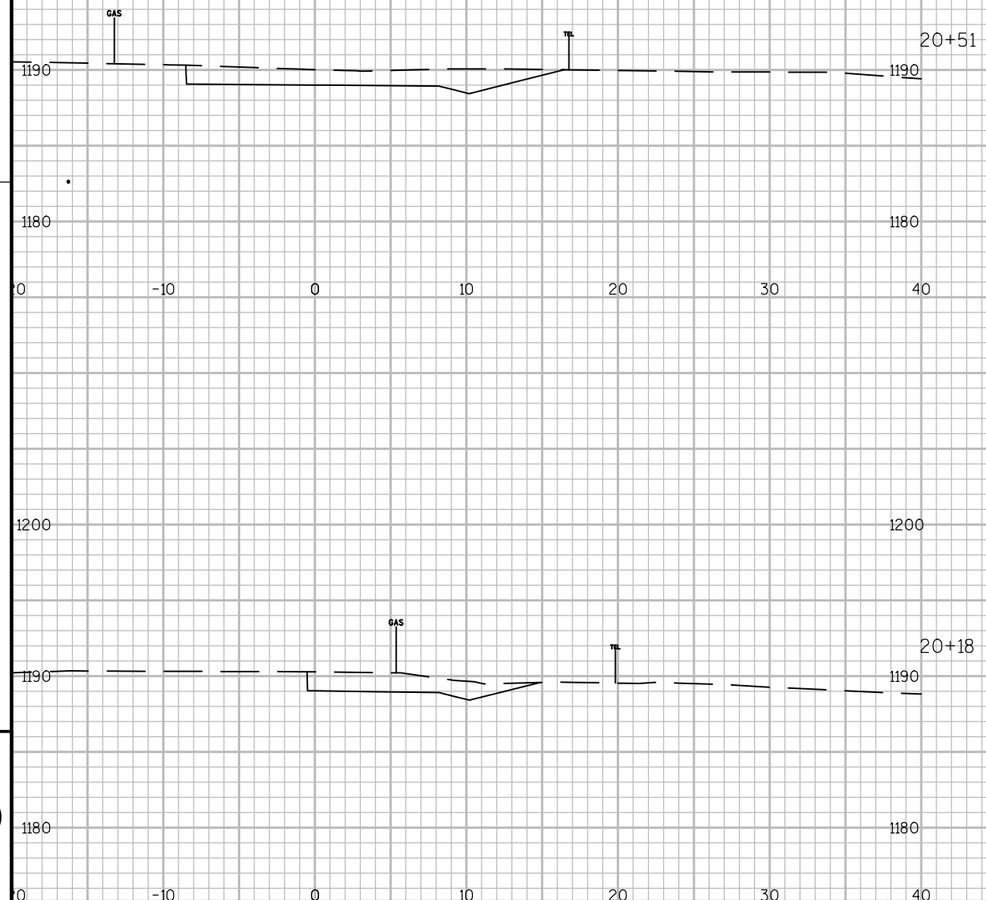


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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: TIMBERLAWN SOUTH RADIUS	SHEET 328	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR SIDE RD TIMBER TO STRESS.DWG
LAYOUT NAME - SECTION SHEET - (6)
PLOT DATE : 9/23/2014 3:50 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



9

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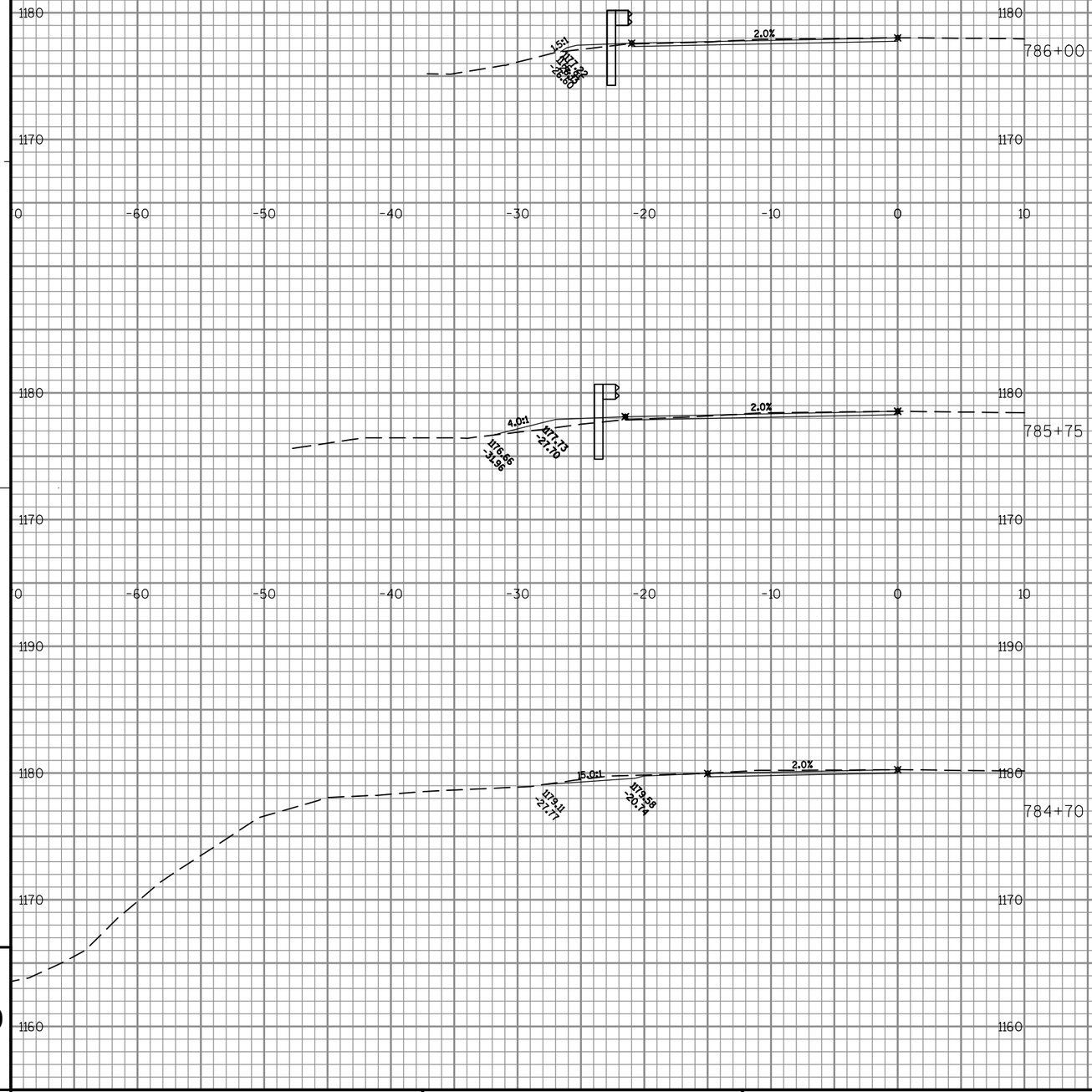
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: TIMBERLAWN NORTH RADIUS	SHEET 329	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR SIDE RD TIMBER TO STRESS.DWG
LAYOUT NAME - SECTION SHEET - (7)

PLOT DATE : 9/23/2014 3:50 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

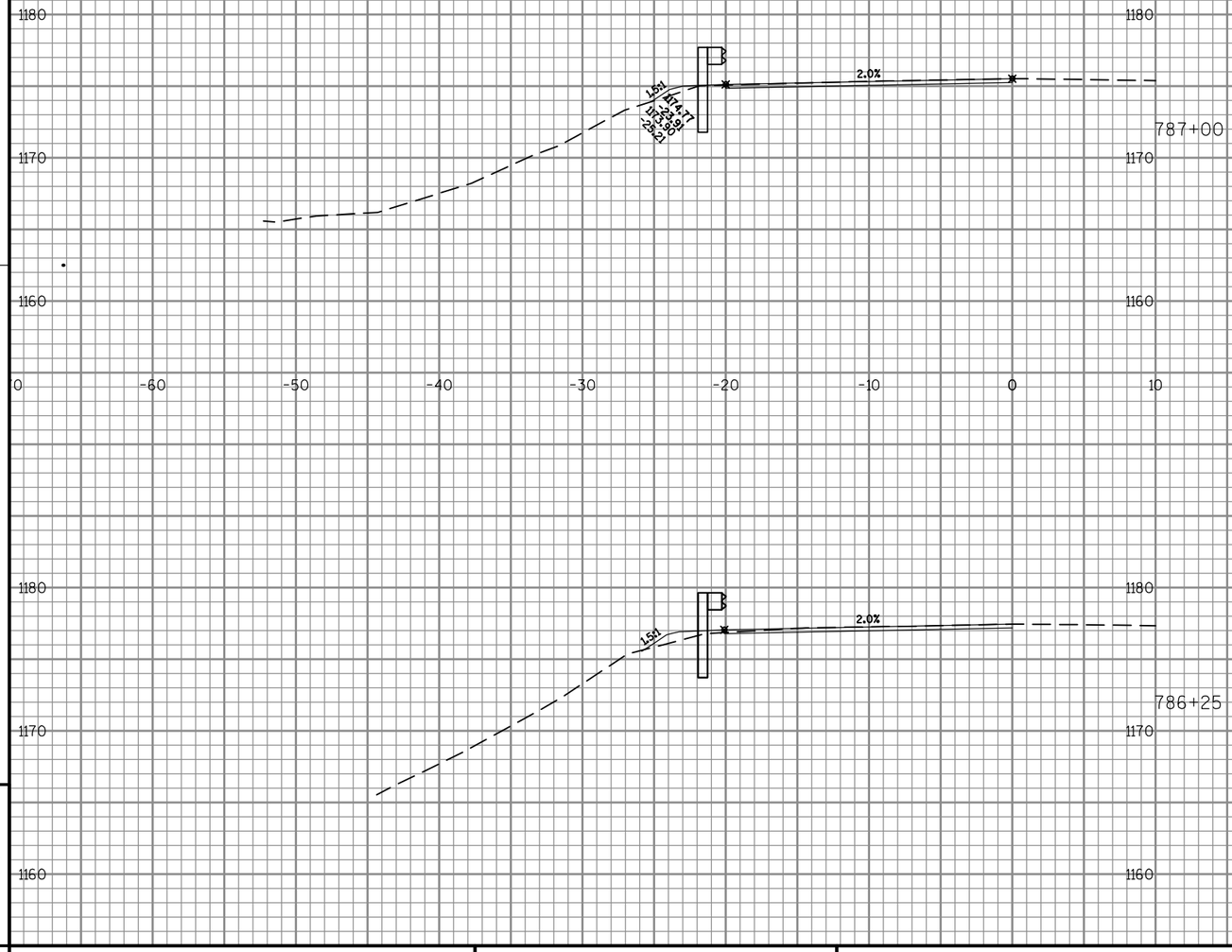


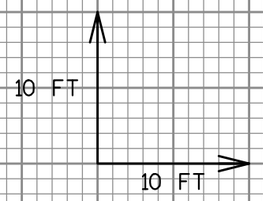
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN	CROSS SECTIONS: BEAMGUARD 785	SHEET	E

9

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\CORRIDOR-BMGRD-STRESS RD.DWG PLOT DATE : 9/16/2014 8:48 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT





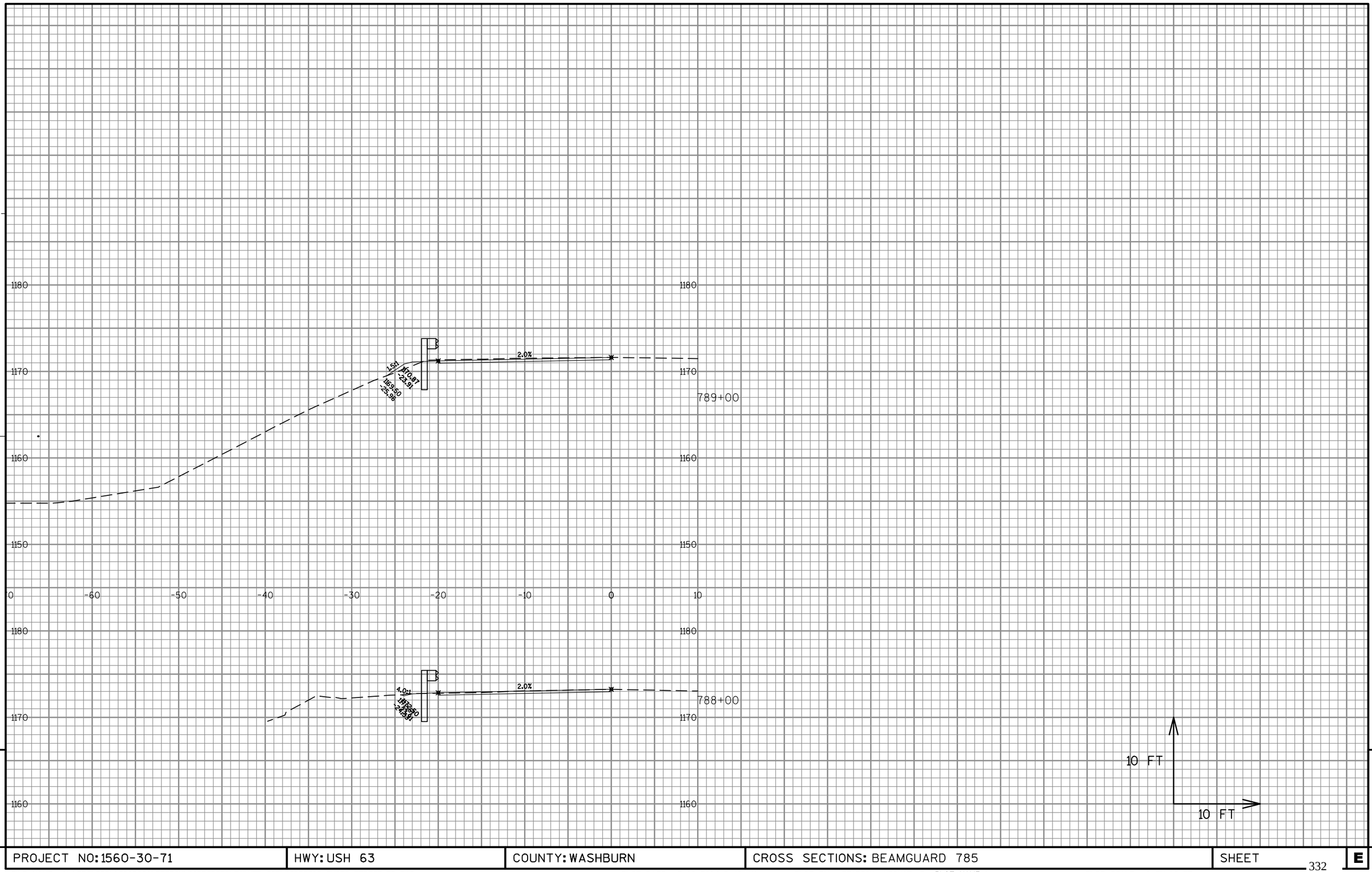
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN	CROSS SECTIONS: BEAMGUARD 785	SHEET	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\CORRIDOR-BMGRD-STRESS RD.DWG PLOT DATE : 9/16/2014 8:48 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

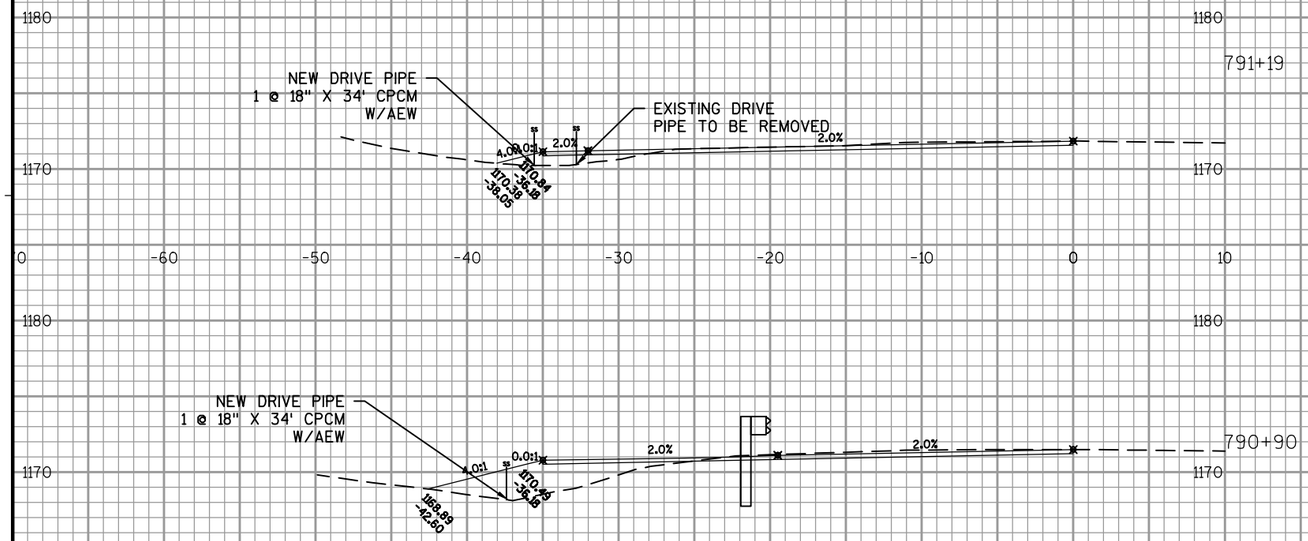


PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN	CROSS SECTIONS: BEAMGUARD 785	SHEET E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\CORRIDOR-BMGRD-STRESS RD.DWG PLOT DATE : 9/16/2014 8:48 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

UNDERGROUND UTILITIES
MAY BE PRESENT. LOCATION
PRIOR TO GRADING IS NEEDED



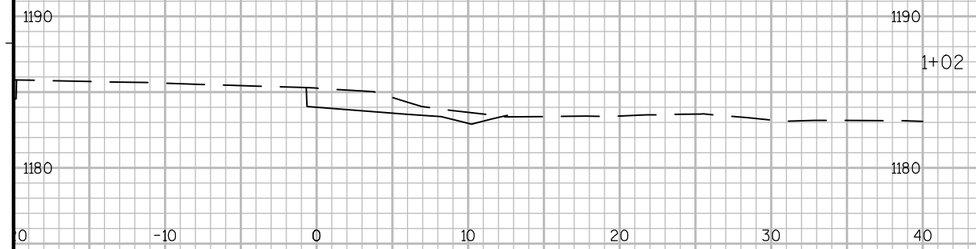
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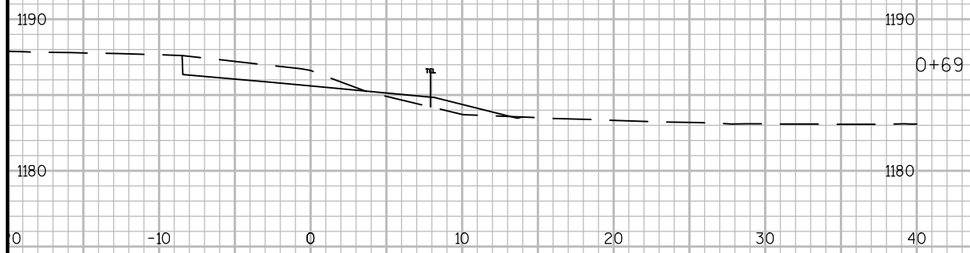
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN	CROSS SECTIONS: BEAMGUARD 785	SHEET 333	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\CORRIDOR-BMGRD-STRESS RD.DWG PLOT DATE : 9/29/2014 10:30 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

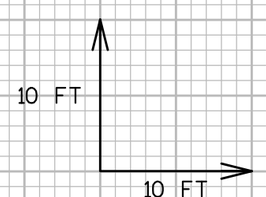
WISDOT/CADDS SHEET 49

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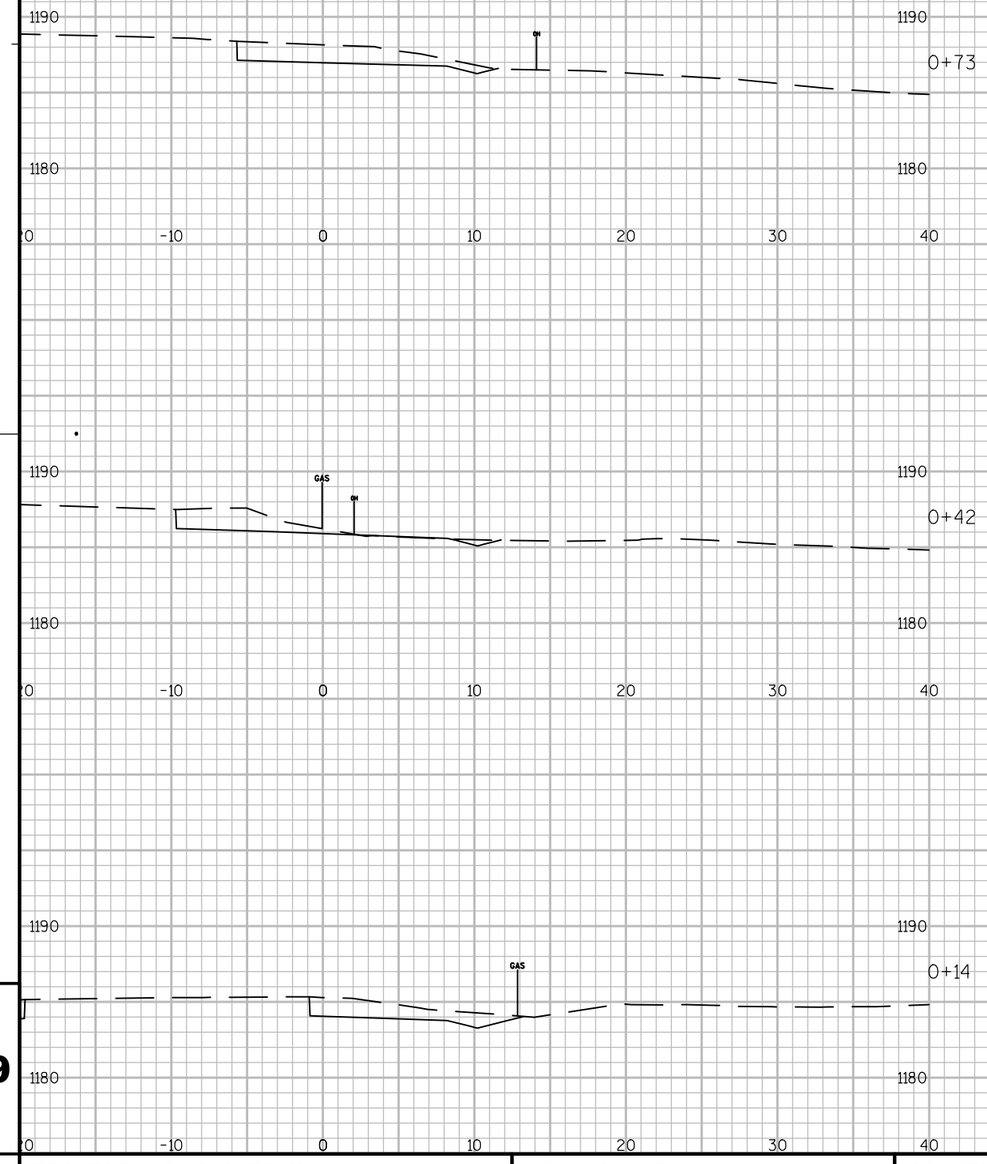
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: OGREN SOUTH RADIUS	SHEET 334	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR SIDE RD TIMBER TO STRESS.DWG
LAYOUT NAME - SECTION SHEET - (8)

PLOT DATE : 9/29/2014 9:05 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT



10 FT

10 FT

9

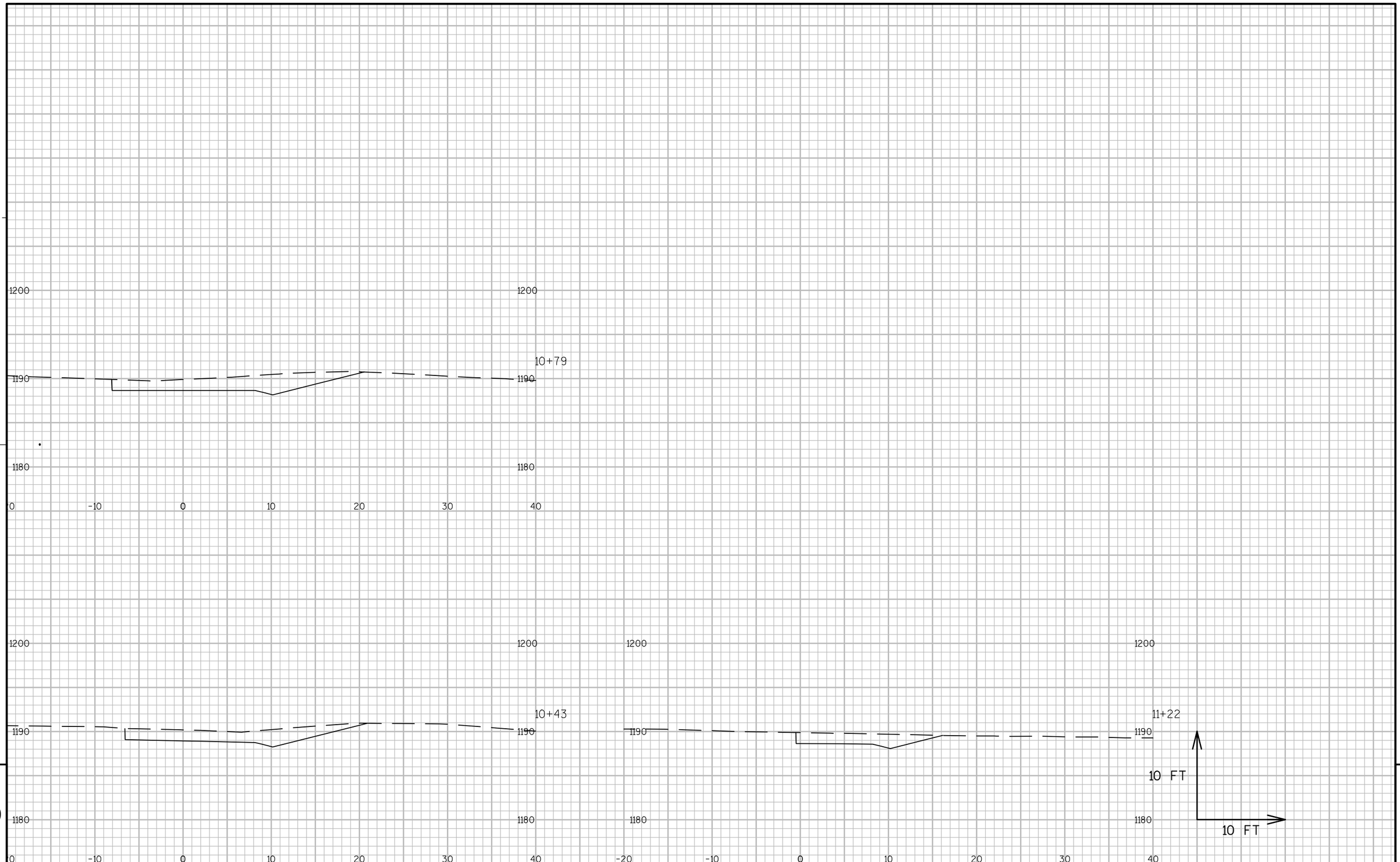
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: OGREN NORTH RADIUS	SHEET 335	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR SIDE RD TIMBER TO STRESS.DWG
LAYOUT NAME - SECTION SHEET - (9)

PLOT DATE : 9/29/2014 9:05 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

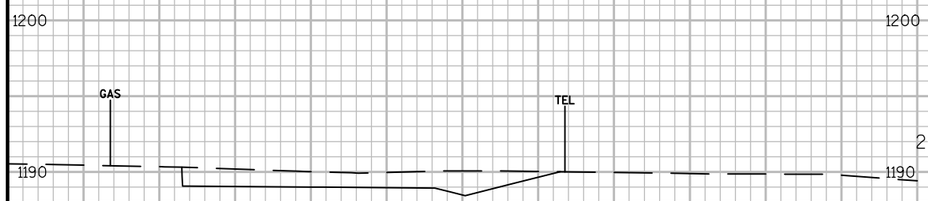
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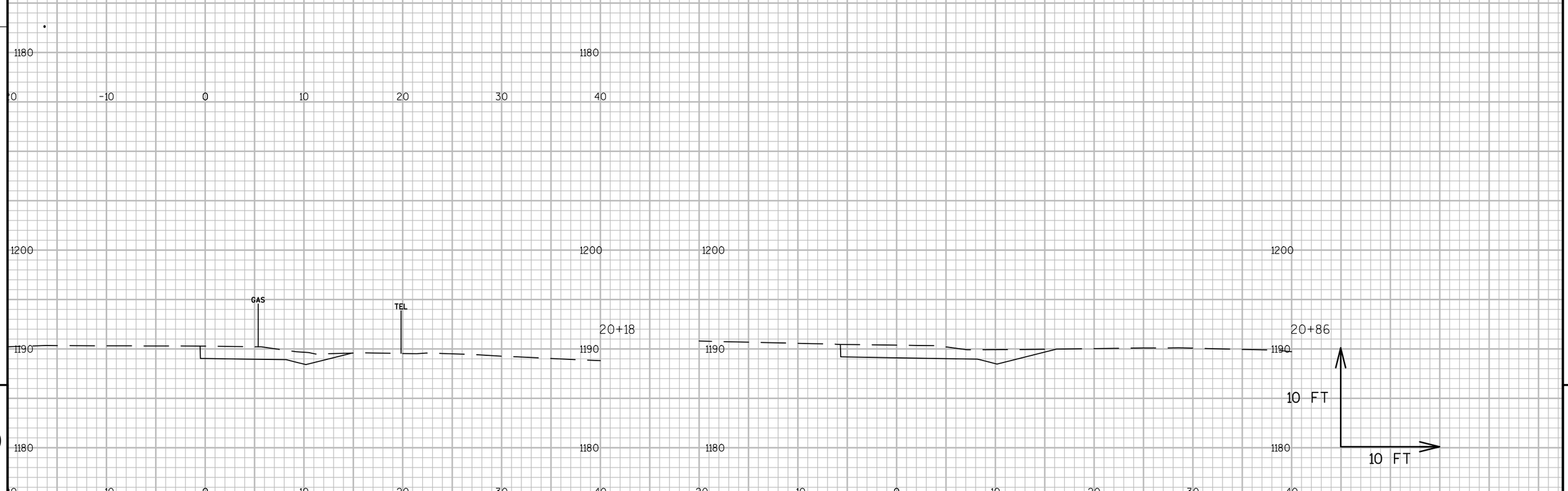
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: TIMBERLAWN SOUTH RADIUS	SHEET 336	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR SIDE RD TIMBER TO STRESS.DWG
LAYOUT NAME - SECTION SHEET - (6)

PLOT DATE : 2/5/2015 12:41 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49





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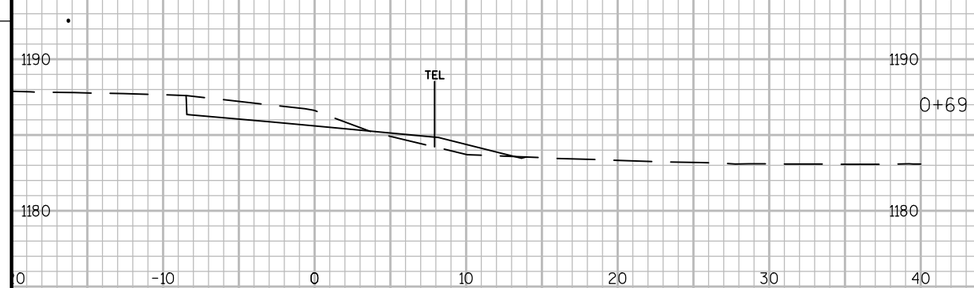
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: TIMBERLAWN NORTH RADIUS	SHEET 337	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR SIDE RD TIMBER TO STRESS.DWG
LAYOUT NAME - SECTION SHEET - (7)

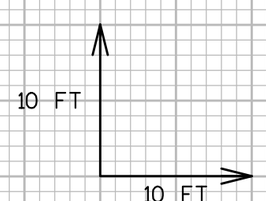
PLOT DATE : 2/5/2015 12:41 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49





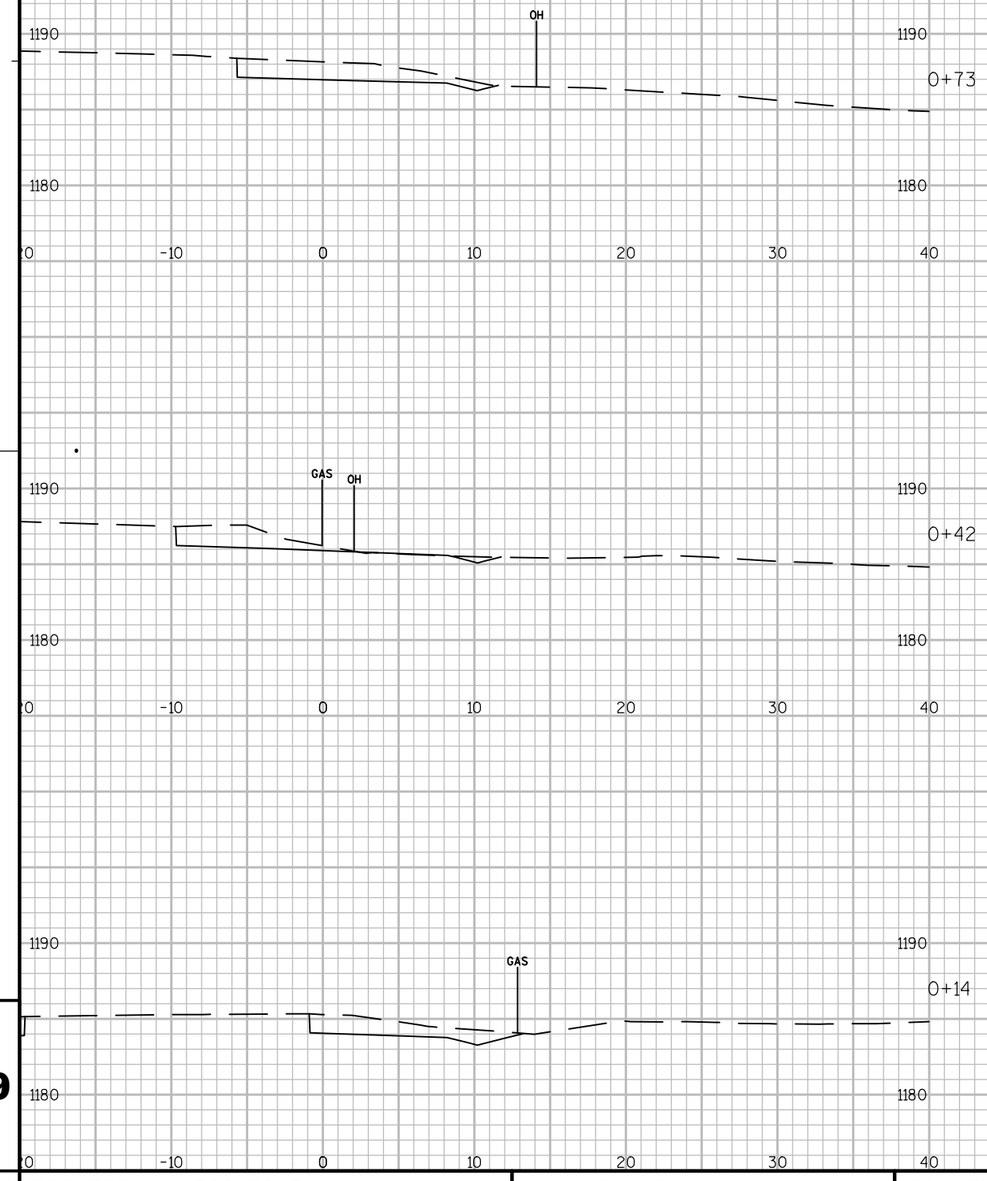


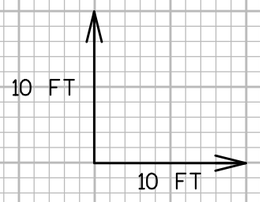


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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: OGREN SOUTH RADIUS	SHEET 338	E





9

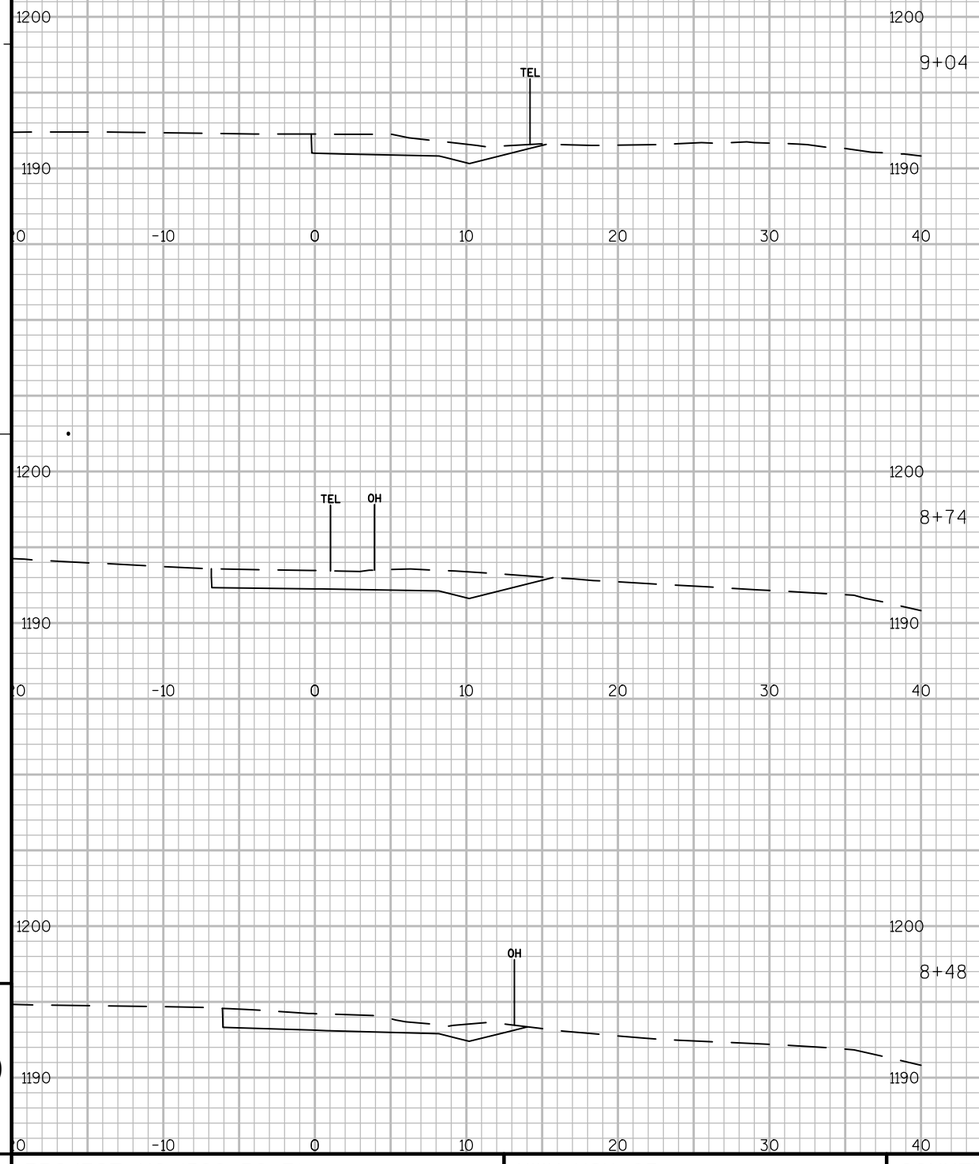
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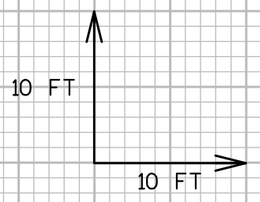
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: OGREN NORTH RADIUS	SHEET 339	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR SIDE RD TIMBER TO STRESS.DWG
LAYOUT NAME - SECTION SHEET - (9)

PLOT DATE : 2/5/2015 12:42 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49





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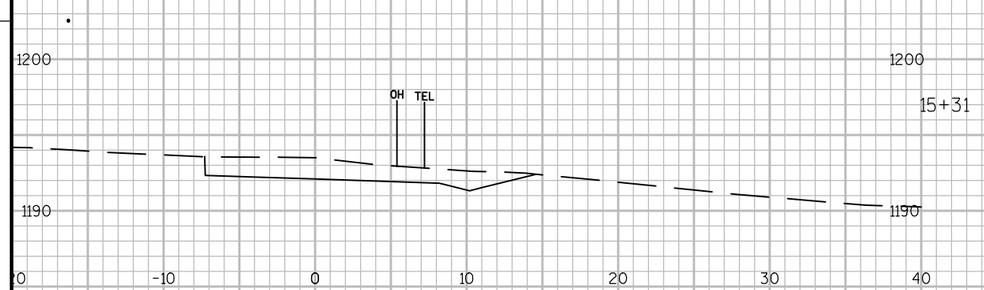
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: STRESS ROAD SOUTH RADIUS	SHEET 340	E

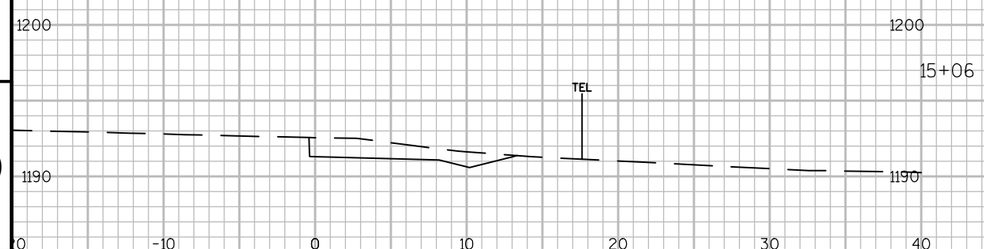
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LAYOUT NAME - SECTION SHEET - (10)

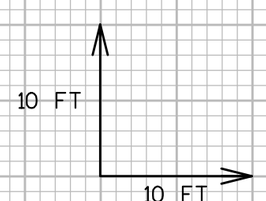
PLOT DATE : 2/5/2015 12:42 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49









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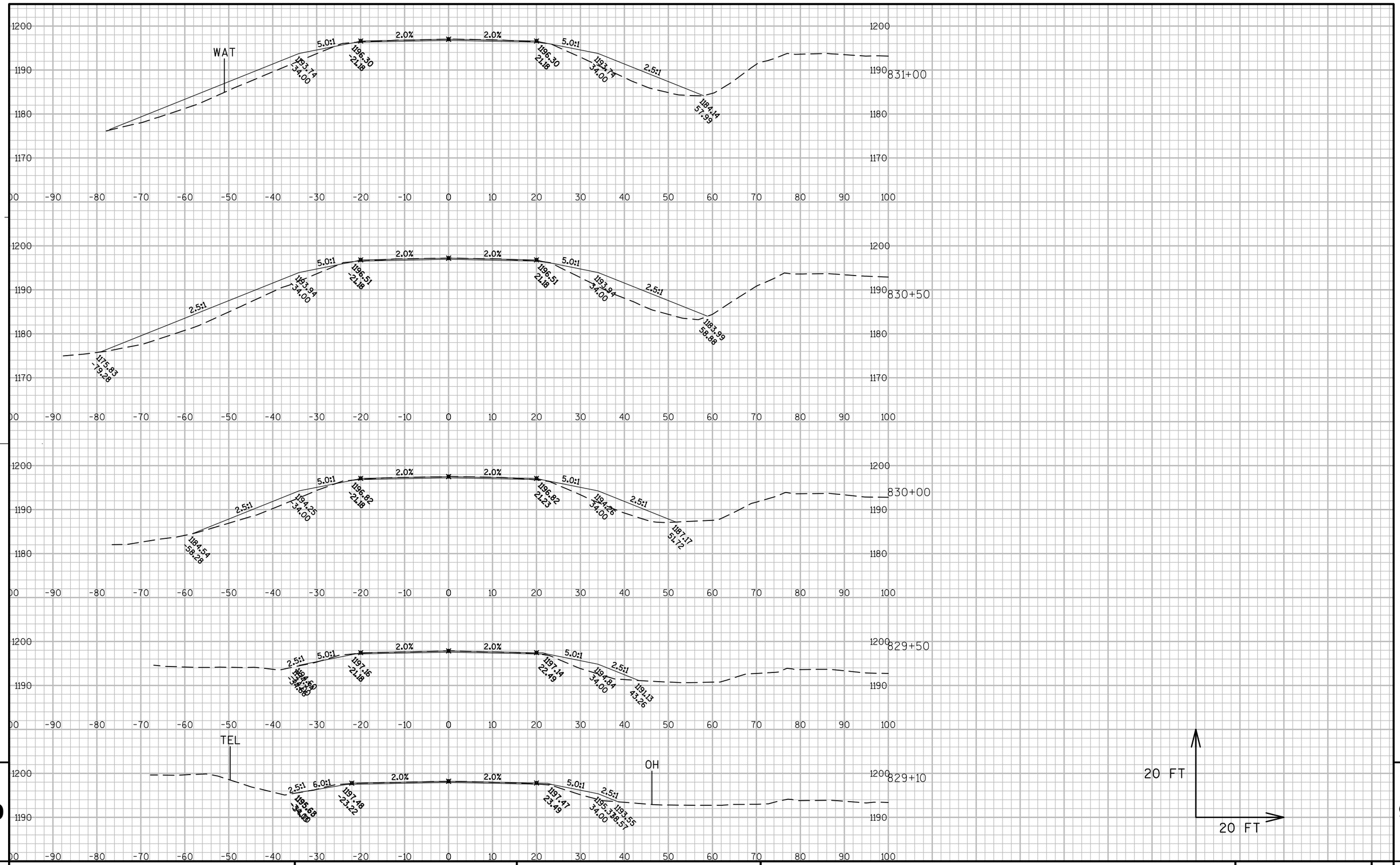
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: STRESS ROAD NORTH RADIUS	SHEET 341	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR SIDE RD TIMBER TO STRESS.DWG
LAYOUT NAME - SECTION SHEET - (11)

PLOT DATE : 2/5/2015 12:42 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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9

PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: FILL 830	SHEET 342	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR-830-FILL.DWG PLOT DATE : 2/25/2015 3:25 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:20 FT

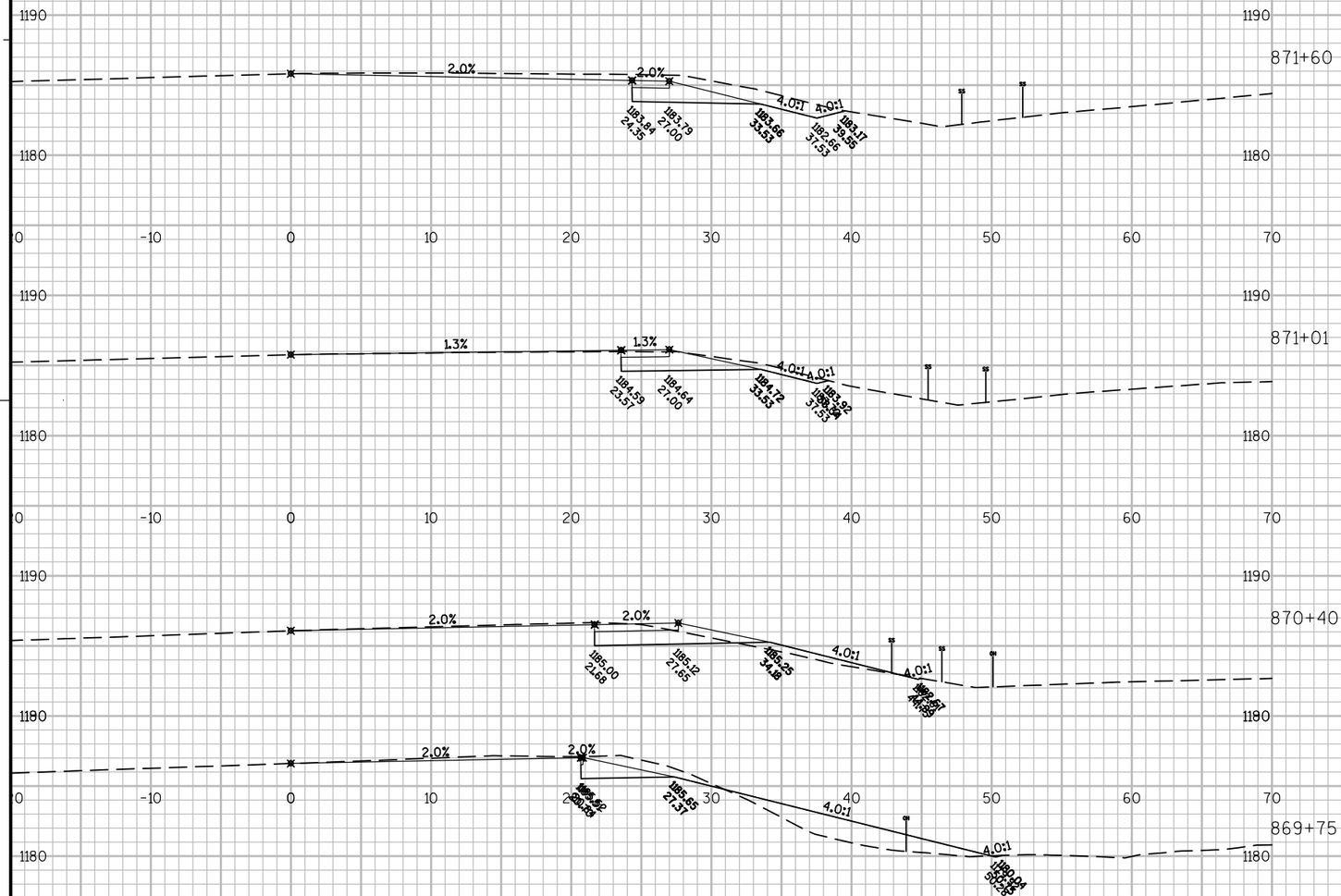
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: FILL 830	SHEET 343	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR-830-FILL.DWG PLOT DATE : 2/25/2015 3:25 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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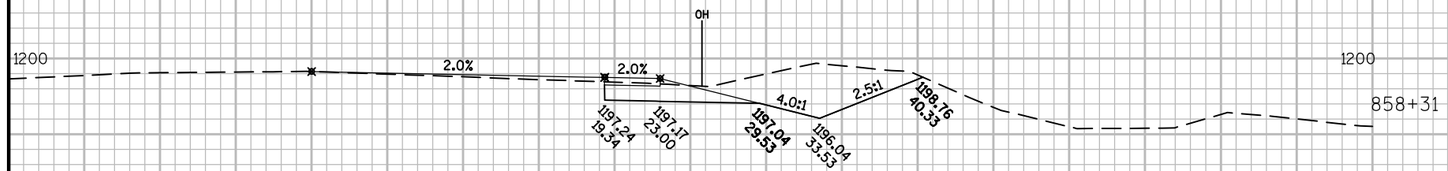
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: VERMONT TURN LANE	SHEET 344	E

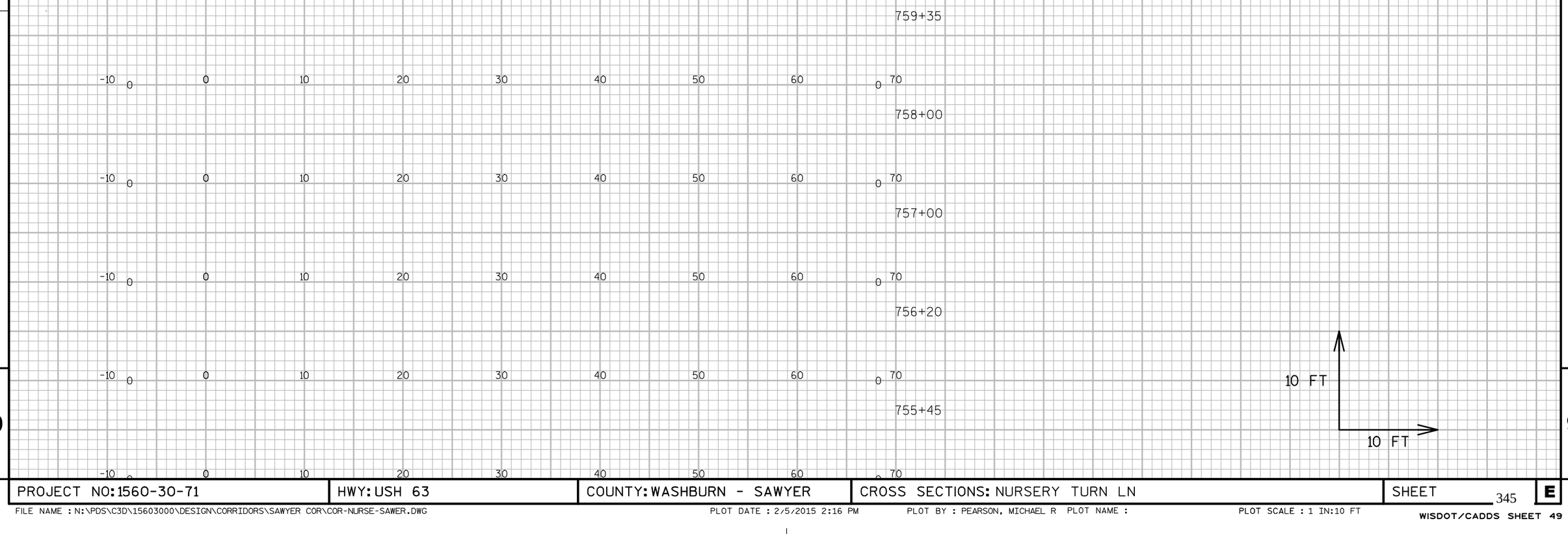
FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR-VERMONT-SAWER.DWG
LAYOUT NAME - SECTION SHEET - (1)

PLOT DATE : 9/29/2014 9:01 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



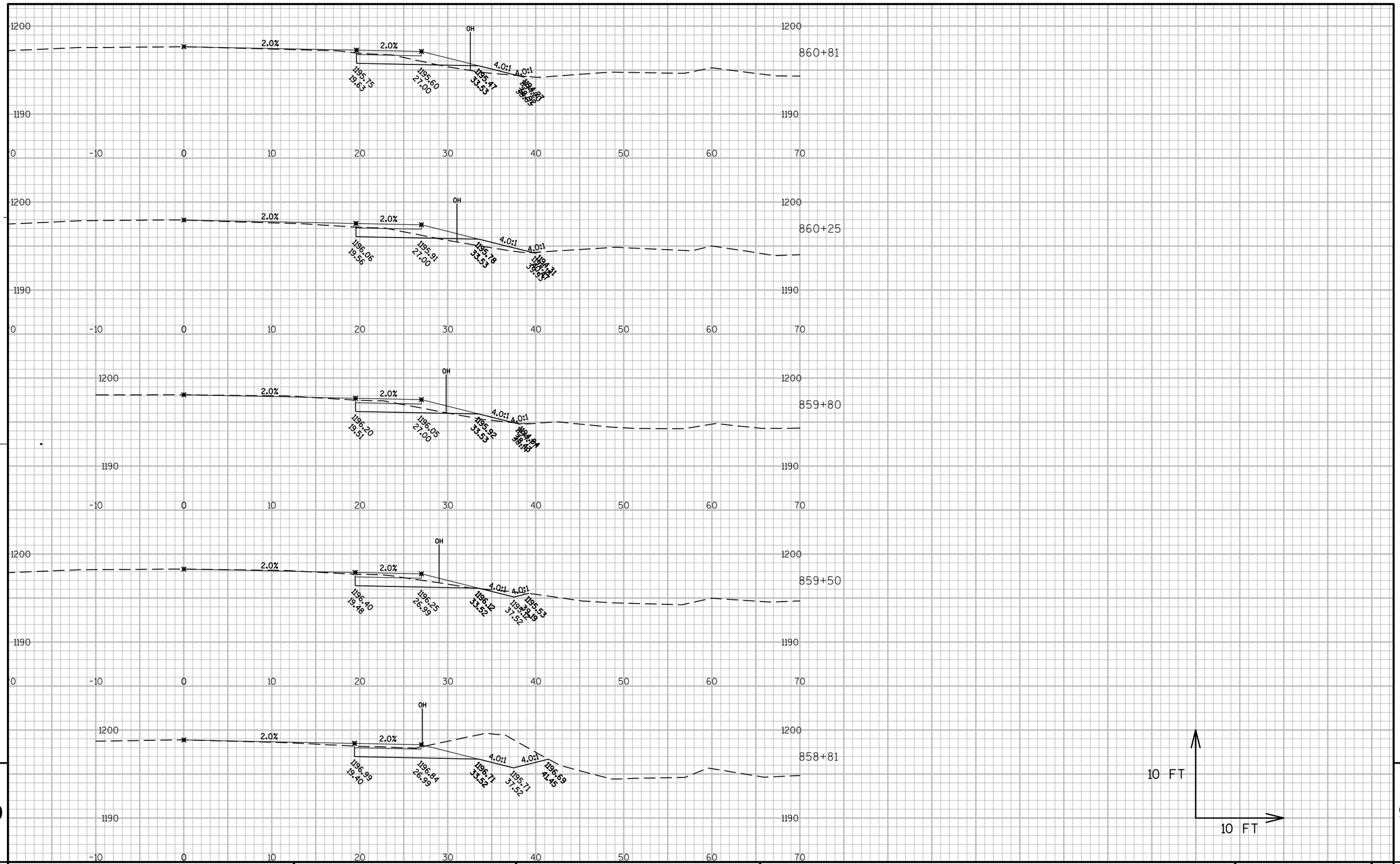




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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: NURSERY TURN LN	SHEET 345	E



9

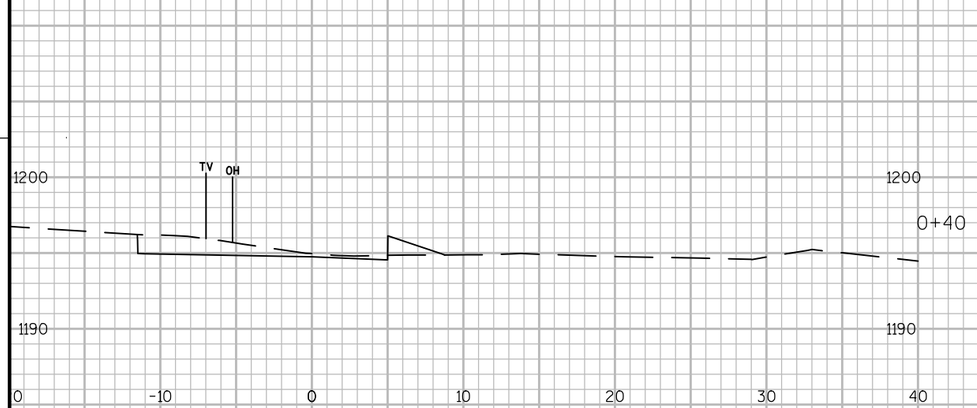
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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: NURSERY TURN LN	SHEET 346	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR-NURSE-SAWER.DWG PLOT DATE : 2/5/2015 2:16 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

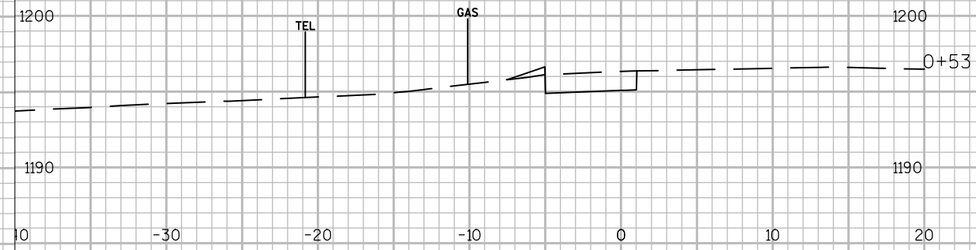
SOUTH RADIUS SECTIONS

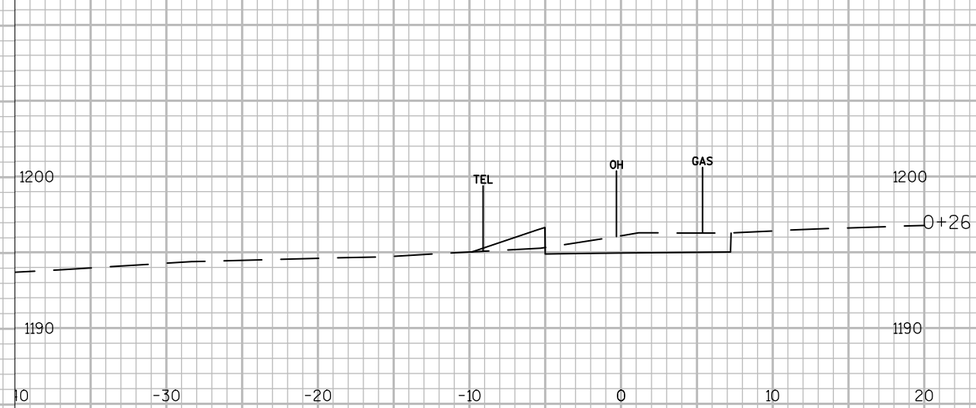


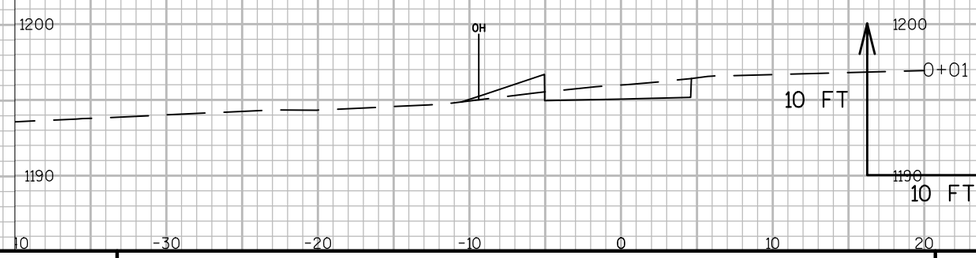




NORTH RADIUS SECTIONS







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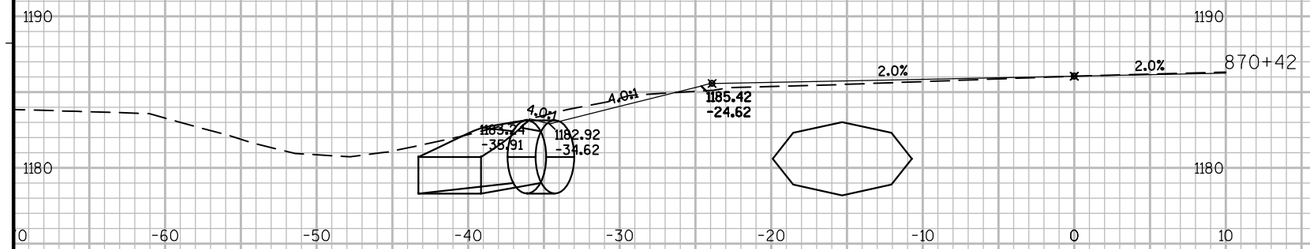
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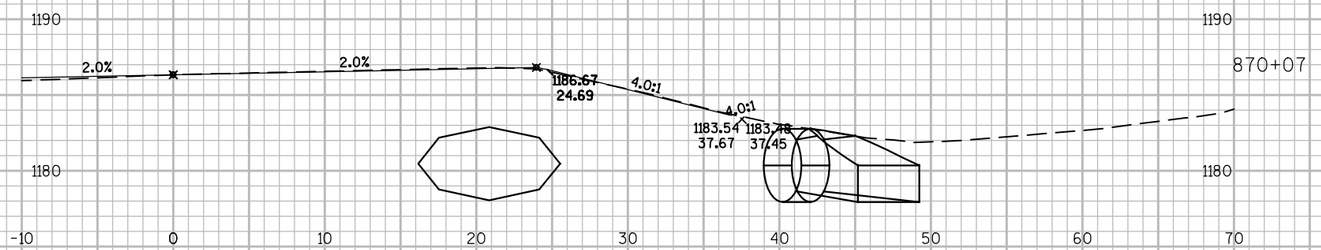
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: NURSERY CURB RADII	SHEET 347 E

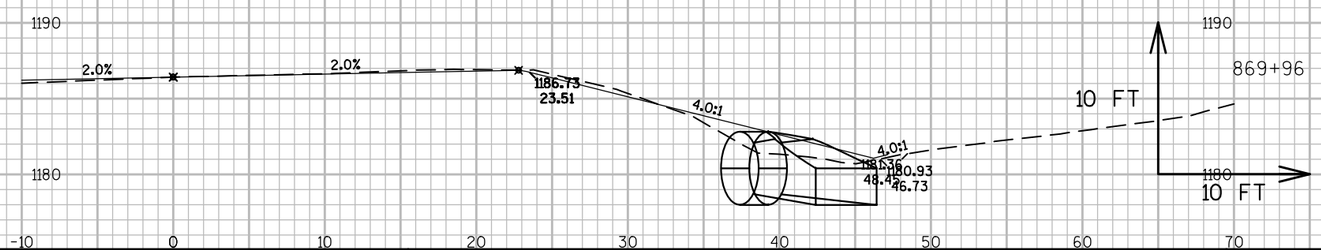
FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR-NURSE-VT-RADII.DWG
LAYOUT NAME - SECTION SHEET - (1)

PLOT DATE : 2/5/2015 2:35 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49







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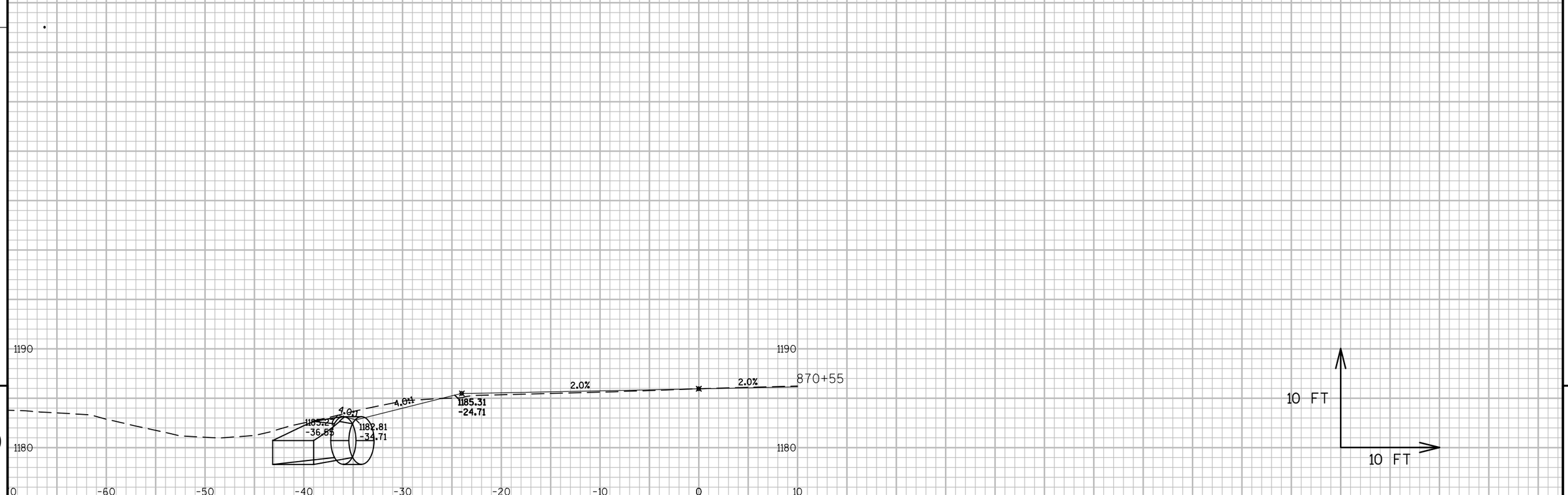
PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: SKEW PIPES 869	SHEET 348	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\DRAINAGE\CORRIDOR-PIPE-869.DWG
LAYOUT NAME - SECTION SHEET - (3)

PLOT DATE : 10/14/2014 8:41 AM PLOT BY : PEARSON, MICHAEL R PLOT NAME :

PLOT SCALE : 1 IN:10 FT

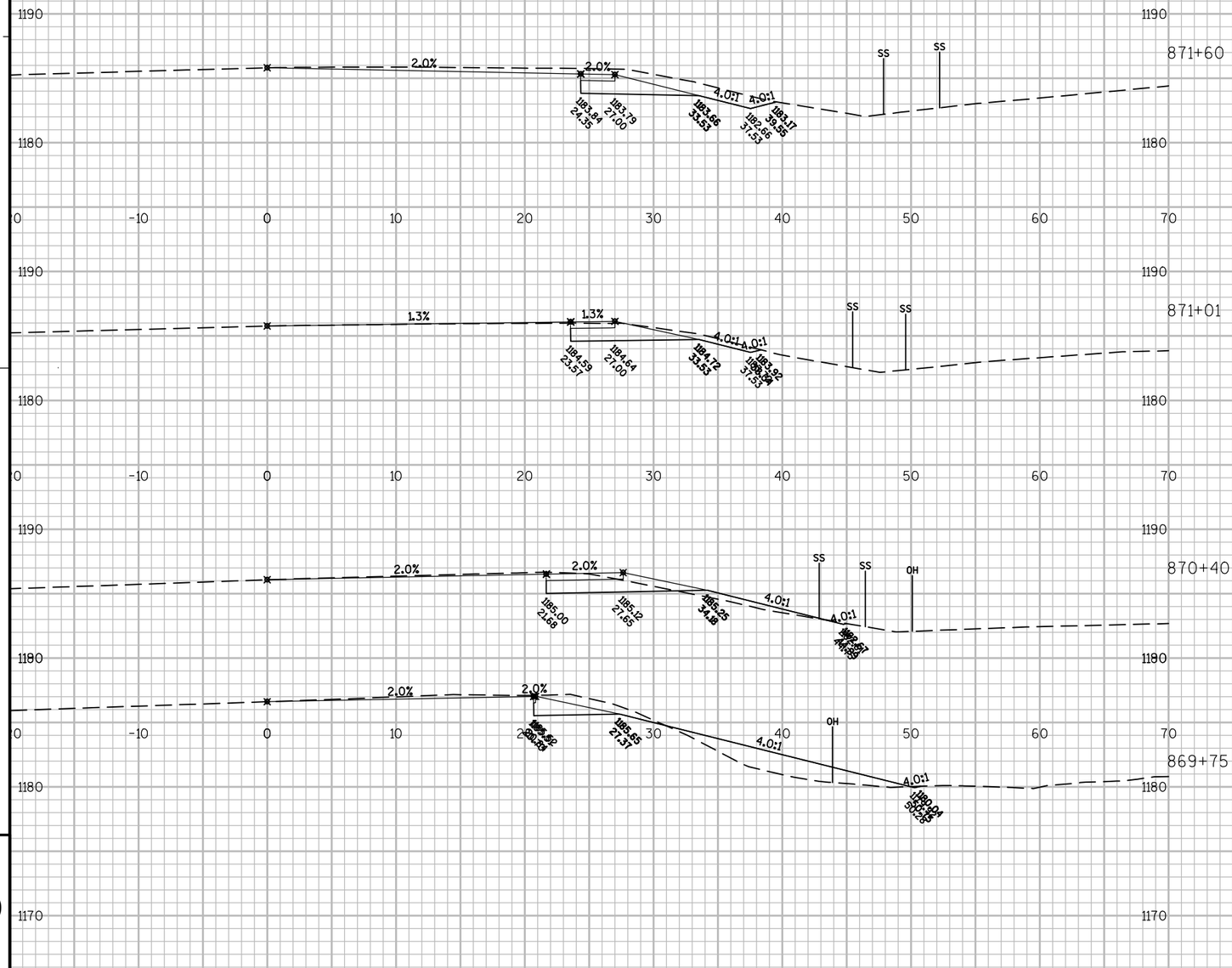
WISDOT/CADDS SHEET 49

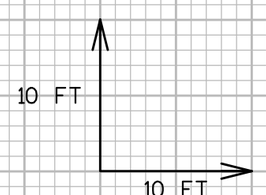


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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: SKEW PIPES 869	SHEET 349	E





PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: VERMONT TURN LANE	SHEET 350	E

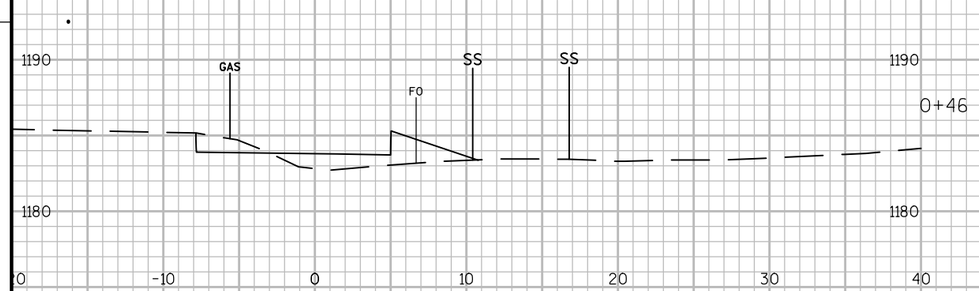
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LAYOUT NAME - SECTION SHEET - (1)

PLOT DATE : 2/5/2015 2:20 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

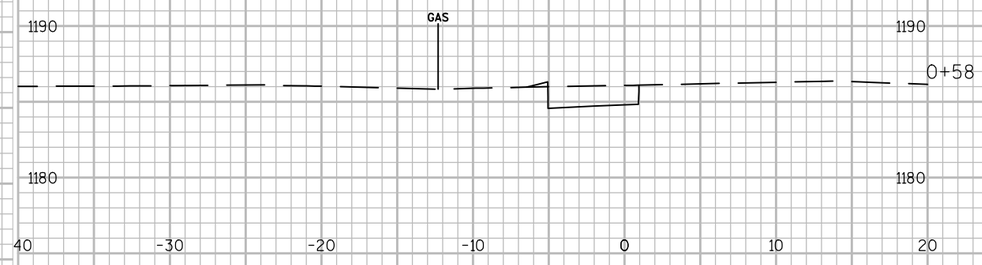
SOUTH CURB RADIUS SECTIONS



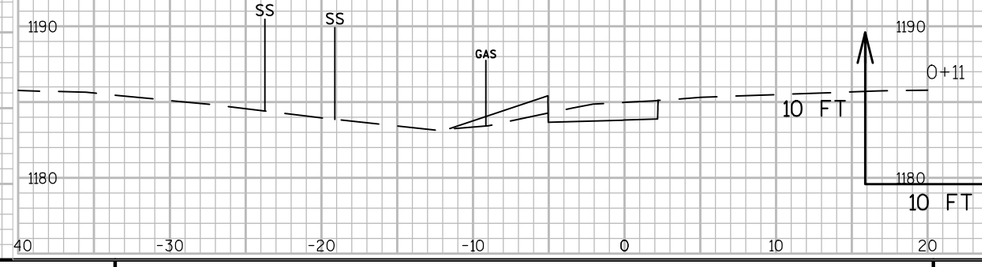




NORTH CURB RADIUS SECTIONS







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PROJECT NO: 1560-30-71	HWY: USH 63	COUNTY: WASHBURN - SAWYER	CROSS SECTIONS: VERMONT CURB RADII	SHEET 351	E

FILE NAME : N:\PDS\C3D\15603000\DESIGN\CORRIDORS\SAWYER COR\COR-NURSE-VT-RADII.DWG
LAYOUT NAME - SECTION SHEET - (3)

PLOT DATE : 2/5/2015 2:36 PM PLOT BY : PEARSON, MICHAEL R PLOT NAME : PLOT SCALE : 1 IN:10 FT

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