WKE JULY 2021

PROJECT ID: 1229-04-70

WITH: N/A

COUNTY: MILWAUKEE/OZAUKEE

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 = 528



01

DESIGN DESIGNATION			IH-43 BTWN BROWN DEER RD & COUNTY LINE RD	IH-43 SOUTH OF MEQUON RD	IH-43 NORTH OF MEQUON RD	IH-43 BTWN CTHC & WIS60
A.A.D.T.	2025	=	78,100	76,900	65,200	56,700
A.A.D.T.	2045	=	84,500	84,300	72,400	63,500
D.H.V.		=	7,500	7,100	6,300	5,400
D.D.		=	57/43	58/42	62/38	61/39
T.		=	10.3%	10.8%	13.0%	14.0%
DESIGN SPEED		=	70	75	75	75
ESALS		=				

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 (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- UNDERGROUND UTILITY (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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

I-43 NORTH SOUTH FREEWAY

SILVER SPRING DR TO STH 60

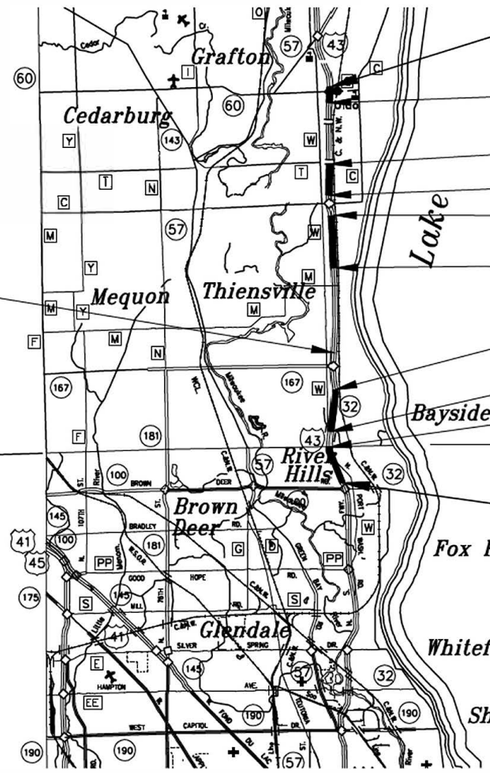
IH 43

MILWAUKEE AND OZAUKEE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1229-04-70	WISC 2021385	1

STATE PROJECT NUMBER

1229-04-70



END PROJECT
ID 1229-04-70
STA 1787+00.00
Y = 402987.58
X = 603424.40

NET EXCEPTION TO CL LENGTH
STA 1764+74.32 - STA 1771+47.47

NET EXCEPTION TO CL LENGTH
STA 1685+97.06 - STA 1687+29.92

NET EXCEPTION TO CL LENGTH
STA 1641+02.49 - STA 1651+15.58

NET EXCEPTION TO CL LENGTH
STA 1619+94.39 - STA 1624+91.20

NET EXCEPTION TO CL LENGTH
STA 1367+92.50 - STA 1578+00.00

NET EXCEPTION TO CL LENGTH
STA 1329+24.89- STA 1330+74.89

NET EXCEPTION TO CL LENGTH
STA 1310+00.00- STA 1312+00.00

BEGIN PROJECT
ID 1229-04-70
STA 1271+08.37
Y = 351723.34
X = 603208.20

EQUATION STA 1479+99.00 BK=
STA 1480+00.00 AHD

LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 5.287 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MILWAUKEE COUNTY, NAD83 (2007) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAN.

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

ORIGINAL PLANS PREPARED BY

kapur

WISCONSIN
AARON J. BUBB
E-36994
HUBERTUS, WI.
PROFESSIONAL ENGINEER

1-19-21 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT, AYRES, KAPUR
Designer	KAPUR
Project Manager	STEVE HOFF
Regional Examiner	
Regional Supervisor	MANOJOY NAG

APPROVED FOR THE DEPARTMENT
DATE: 1/19/21 (Signature)

E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\010101-TI.DWG PLOT DATE : 4/1/2021 8:02 AM PLOT BY : WALTER A. WOLAK II PLOT NAME :

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www.DiggersHotline.com

2

GENERAL NOTES

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

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

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE FILLED WITH COMPACTED GRANULAR BACKFILL UNLESS REGULATIONS REQUIRE OTHERWISE.

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

THE QUANTITY OF TOPSOIL IS COMPUTED FROM MEASUREMENTS BETWEEN THE SUBGRADE SHOULDER POINTS AND THE SLOPE INTERCEPTS AS SHOWN ON THE CROSS SECTIONS.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS.

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP OR HEAVY RIPRAP OR EBS BACKFILL.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH 4-INCH TYPICAL DEPTH IN RURAL SECTIONS.

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

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

RE-TOPSOIL GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND MULCH/EROSION MAT TOPSOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN 5 DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN 14 DAYS, SEED THOSE AREAS WITH TEMPORARY SEED.

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

TOPSOIL, FERTILIZER, MULCH AND SEED SHALL BE PLACED AS DIRECTED BY THE ENGINEER. IN DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS.

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

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

REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.

INLET PROTECTION IS REQUIRED AT ALL INLETS AS SHOWN ON THE EROSION CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.

SIGNS IN CONFLICT WITH TRAFFIC CONTROL 'IN USE' SHALL BE COVERED AS DIRECTED BY THE ENGINEER AND PAID FOR UNDER THE ITEM TRAFFIC CONTROL COVERING SIGNS TYPE I OR TYPE II.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN AND PROVIDE DOCUMENTATION TO ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS.

EXISTING SIGNS DAMAGED BY THE CONTRACTOR WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING LAYERS AND GRADATIONS:

IH 43

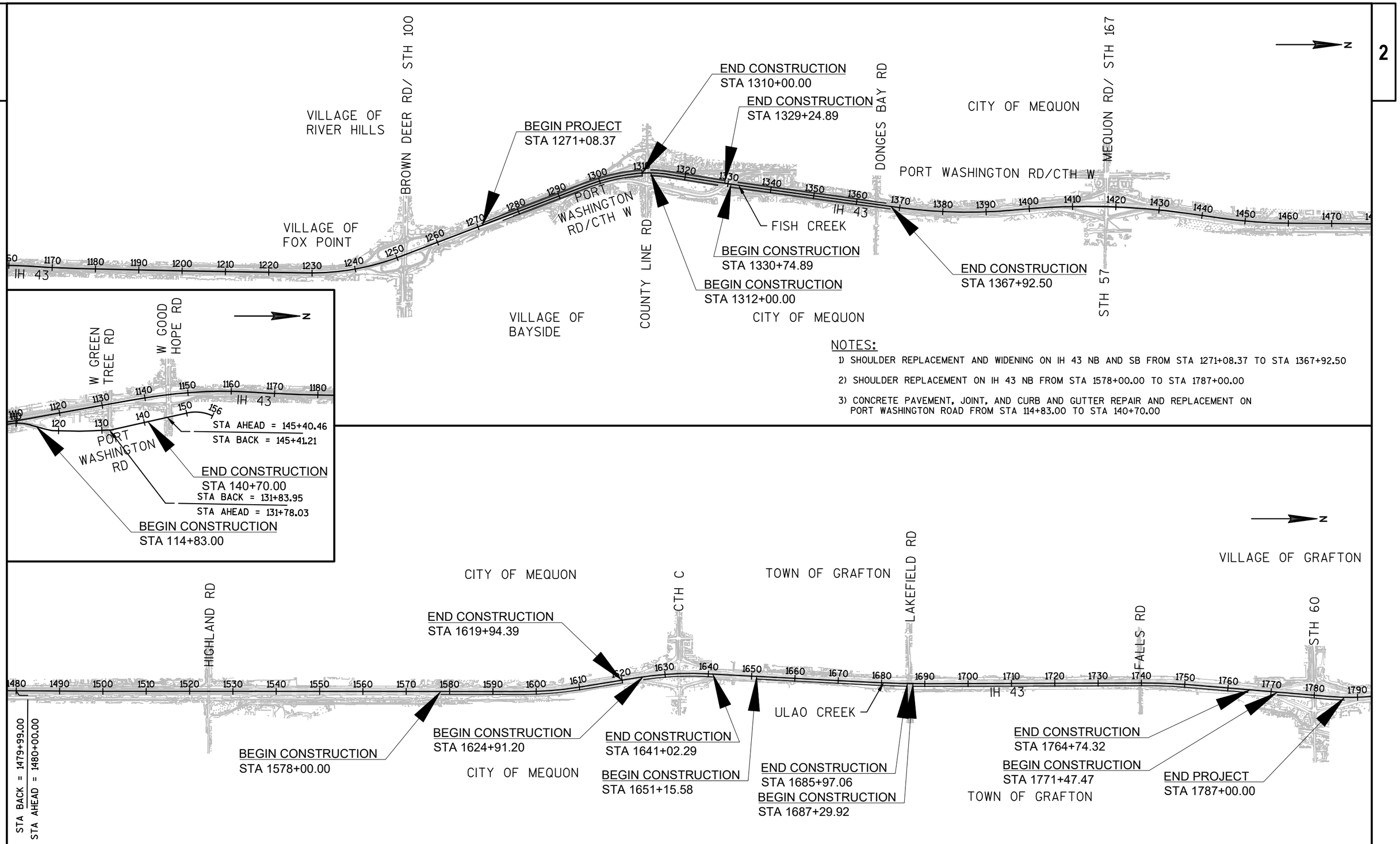
HMA PAVEMENT 7.5-INCH
2-INCH UPPER LAYER 4 MT 58-28 S
2.75-INCH UPPER-LOWER LAYER 3 MT 58-28 S
2.75-INCH LOWER-LOWER LAYER 3 MT 58-28 S

STANDARD ABBREVIATIONS

AEW	APRON ENDWALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCHMARK
BTWN	BETWEEN
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CMCP	CULVERT PIPE CORRUGATED METAL
CONC	CONCRETE
CP	CULVERT PIPE
CPRC	CULVERT PIPE REINFORCED CONCRETE
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RCAEW	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RRSP	RAILROAD SPIKE
RT	RIGHT
SALV	SALVAGED
SAPBC	SALVAGED ASPHALTIC PAVEMENT BASE COURSE
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPERELEVATION
SF	SQUARE FOOT
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT

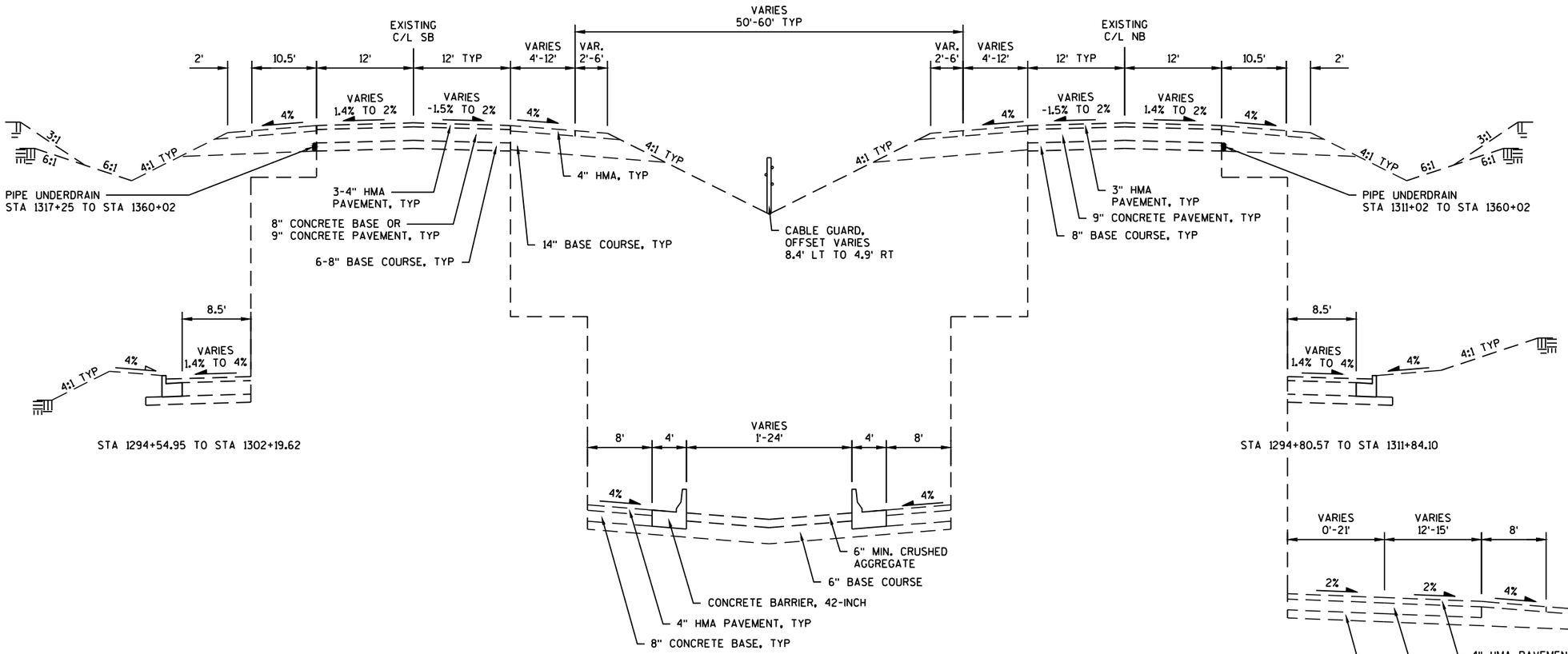
ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLAN
PLAN DETAILS
FTMS PLANS
EROSION CONTROL
STORM SEWER
PERMANENT SIGNING PLAN
TRAFFIC CONTROL
DETOUR PLAN
ALIGNMENT PLAN



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PROJECT OVERVIEW	SHEET 5 E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\020201-PO.DWG
LAYOUT NAME - 020201-po
PLOT DATE : 3/31/2021 2:11 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:2000 FT
WISDOT/CADDS SHEET 42



TYPICAL EXISTING SECTION
IH 43
STA 1271+08.37 TO STA 1360+02

** EXISTING GUARDRAIL LOCATIONS

SB				NB			
STA 1274+36	-	STA 1275+07	RT	STA 1279+52	-	STA 1280+53	RT
STA 1309+69	-	STA 1312+36	RT	STA 1309+70	-	STA 1312+35	LT
STA 1328+36	-	STA 1331+55	RT	STA 1327+81	-	STA 1328+61	RT
STA 1331+40	-	STA 1332+15	LT	STA 1328+36	-	STA 1331+55	LT
STA 1336+33	-	STA 1337+88	RT	STA 1336+33	-	STA 1337+88	LT
STA 1337+00	-	STA 1339+79	LT				

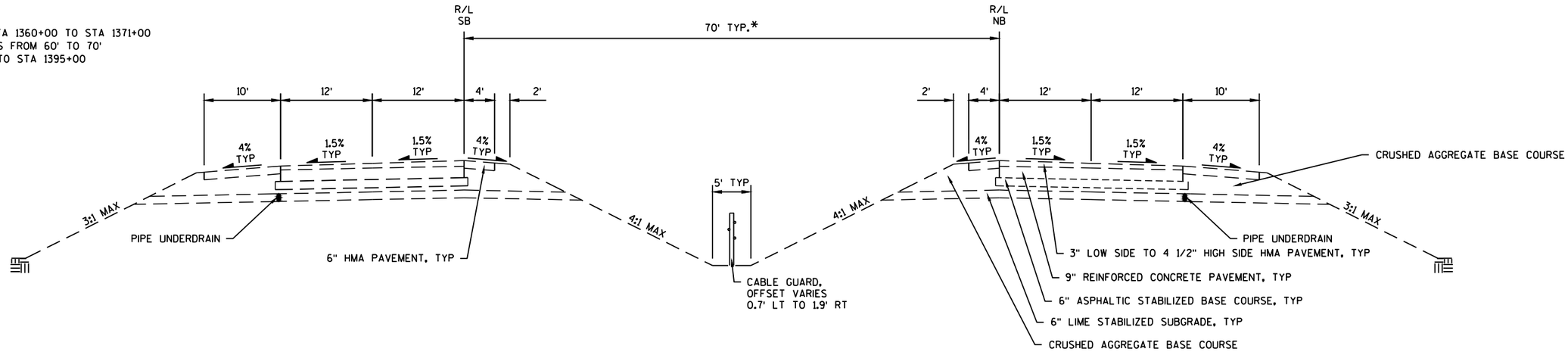
PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TYPICAL EXISTING SECTIONS	SHEET 6	E

2

EXISTING GUARDRAIL LOCATIONS

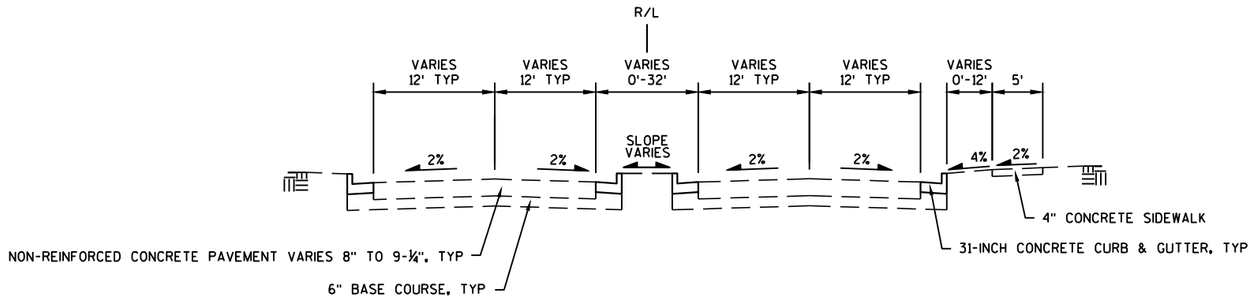
SB				NB			
STA 1363+20	-	STA 1365+75	RT	STA 1363+20	-	STA 1365+75	LT
STA 1631+82	-	STA 1634+62	RT	STA 1631+82	-	STA 1634+62	LT
STA 1678+86	-	STA 1685+83	LT	STA 1679+42	-	STA 1685+85	RT
STA 1686+94	-	STA 1689+04	RT	STA 1683+90	-	STA 1685+85	LT
STA 1686+99	-	STA 1691+05	LT	STA 1738+29	-	STA 1740+83	LT
STA 1738+29	-	STA 1740+83	RT	STA 1778+71	-	STA 1781+00	LT
STA 1778+71	-	STA 1781+00	RT				

* MEDIAN 60' STA 1360+00 TO STA 1371+00
MEDIAN VARIES FROM 60' TO 70'
STA 1371+00 TO STA 1395+00



TYPICAL EXISTING SECTION
IH 43

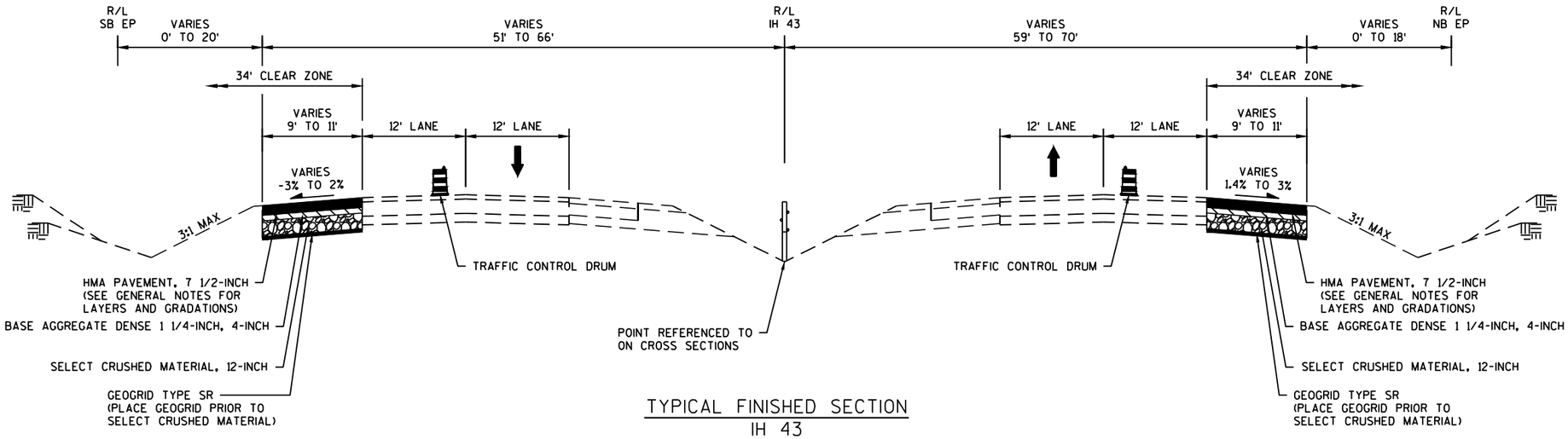
STA 1360+02 TO STA 1367+92.50
STA 1578+00 TO STA 1787+00



TYPICAL EXISTING SECTION
N. PORT WASHINGTON ROAD

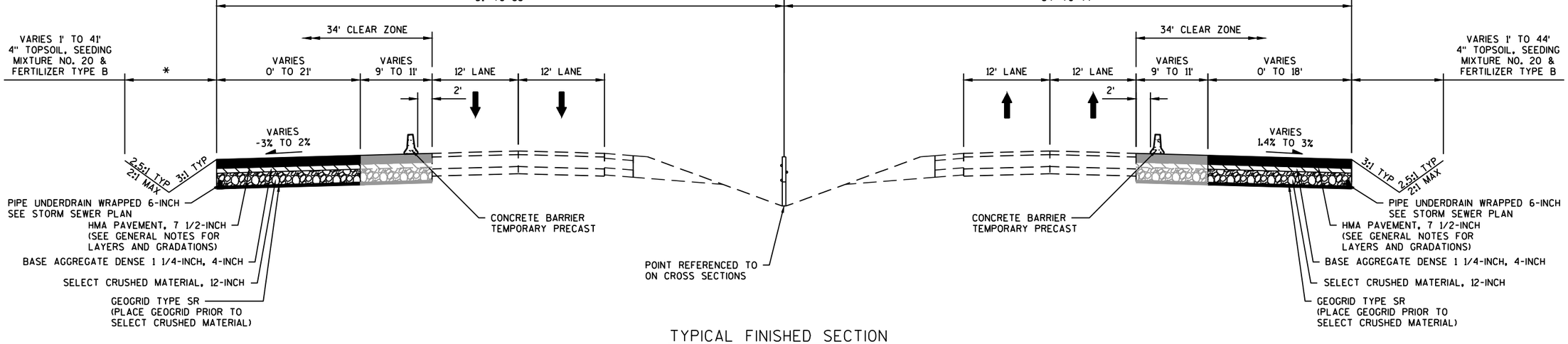
STA 114+83 TO STA 140+70

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TYPICAL EXISTING SECTIONS	SHEET 7	E



TYPICAL FINISHED SECTION
IH 43

STA 1271+08.37 TO STA 1367+92.50
STAGE 1: PERFORM WORK DURING
FREEWAY CLOSURE HOURS.
SEE CONSTRUCTION DETAIL FOR IH 43 STAGE 1
SEQUENCE OF OPERATIONS.



TYPICAL FINISHED SECTION
IH 43

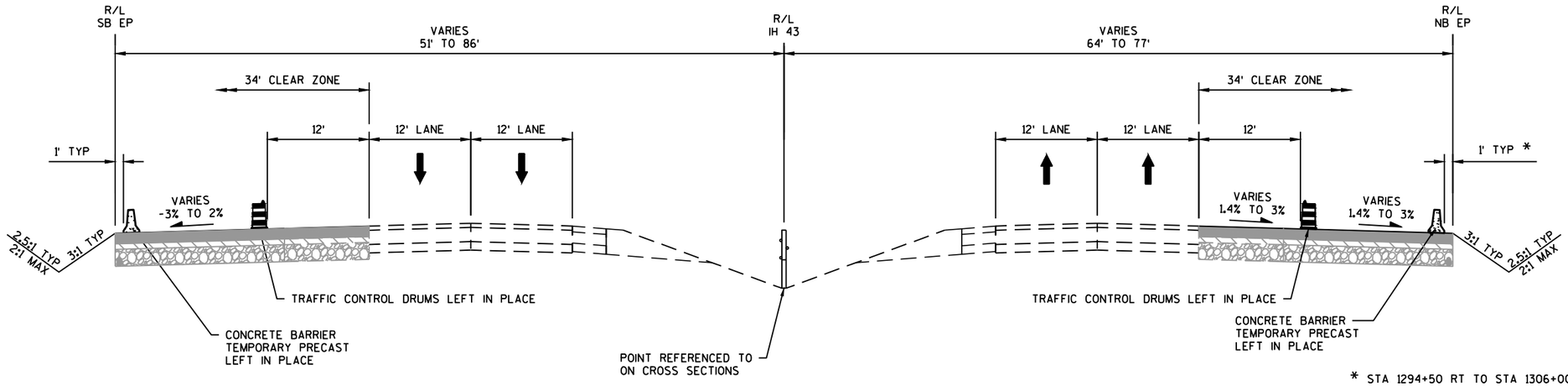
STA 1271+08.37 TO STA 1367+92.50
STAGE 2: PERFORM WORK AFTER
PLACING CONCRETE BARRIER
TEMPORARY PRECAST

SOUTHBOUND SUPER ELEVATION TABLE		
PAVING NOTE	CROSS SLOPE	STATION
END NC/START TRANSITION	-2%	1292+00
TRANSITION TO +3% SE	-	-
END TRANSITION/FULL SE	+3%	1294+00
FULL SE/START TRANSITION	+3%	1314+75
TRANSITION TO -2%	-	-
END TRANSITION/START NC	-2%	1318+75

NORTHBOUND SUPER ELEVATION TABLE		
PAVING NOTE	CROSS SLOPE	STATION
END NC/START TRANSITION	-2%	1292+00
TRANSITION TO -3%	-	-
END TRANSITION/FULL SE	-3%	1294+00
FULL SE/START TRANSITION	-3%	1315+50
TRANSITION TO -2%	-	-
END TRANSITION/START NC	-2%	1317+00
END NC/START TRANSITION	-2%	1366+50
TRANSITION TO +2%	-	-
END TRANSITION/FULL SE	+2%	1373+00

* STA 1316+60 LT TO STA 1323+50 LT
TEMPORARY SHORING LEFT IN PLACE
SEE PLAN DETAILS AND CROSS SECTIONS

2

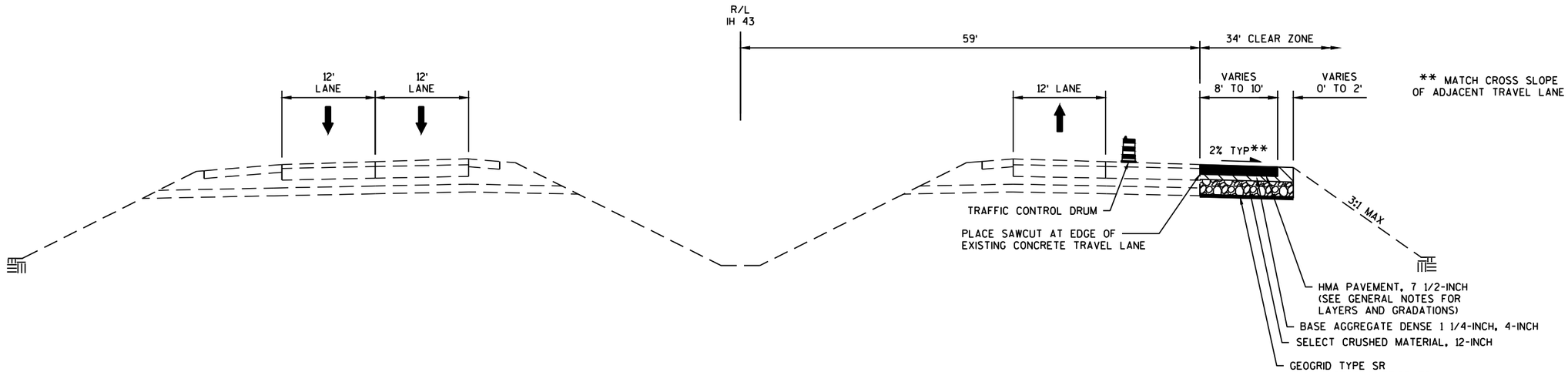


* STA 1294+50 RT TO STA 1306+00 RT
0' OFFSET TO THE NB EDGE OF PAVEMENT
ANCHORING CONCRETE BARRIER TEMPORARY PRECAST

TYPICAL FINISHED SECTION
IH 43

STA 1271+08.37 TO STA 1367+92.50
STAGE 3: AT THE COMPLETION OF STAGE 2, MOVE CONCRETE BARRIER TEMPORARY PRECAST TO FINAL CONFIGURATION. SEE TRAFFIC CONTROL PLANS.

NOTE:
SEE CONSTRUCTION DETAILS "SHOULDER REPLACEMENT ADJACENT TO GUARDRAIL, CONCRETE BARRIER, SLOPE PAVING" FOR MORE INFORMATION WHEN REPLACING SHOULDER NEXT TO GUARDRAIL, CONCRETE BARRIER OR SLOPE PAVING.



TYPICAL FINISHED SECTION
IH 43

STA 1578+00.00 TO STA 1619+94.39
STA 1624+91.20 TO STA 1641+02.49
STA 1651+15.58 TO STA 1685+97.06
STA 1687+29.92 TO STA 1764+74.32
STA 1771+47.47 TO STA 1787+00.00
PERFORM WORK DURING FREEWAY CLOSURE HOURS.
SEE CONSTRUCTION DETAIL FOR IH 43 STAGE 1
SEQUENCE OF OPERATIONS.

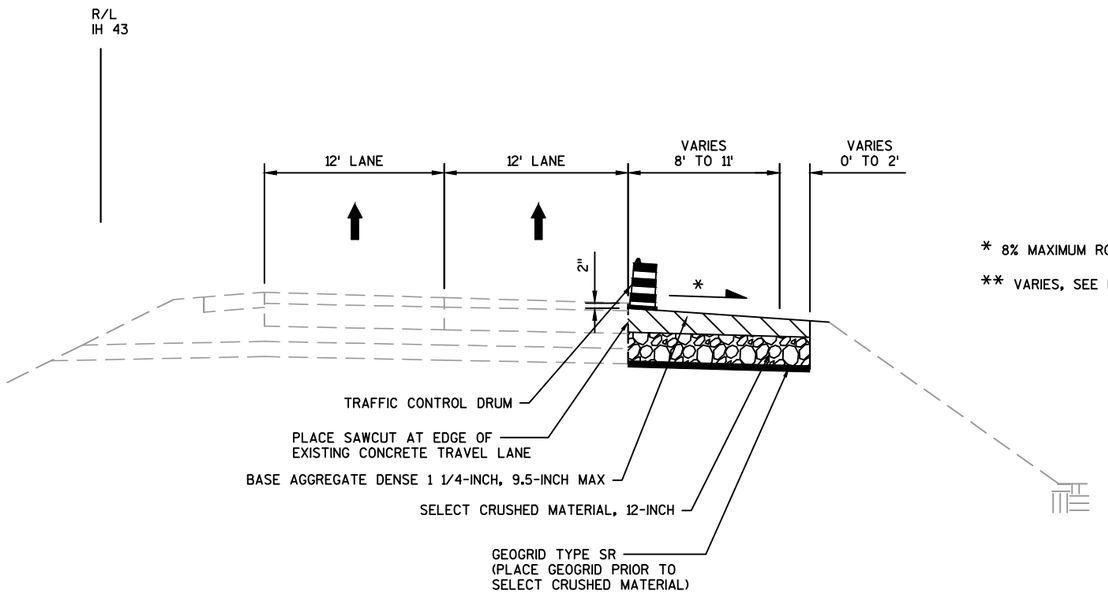
NORTHBOUND SUPER ELEVATION TABLE		
PAVING NOTE	CROSS SLOPE	STATION
END NC/START TRANSITION	-2%	1594+76
TRANSITION TO +3%	-	-
END TRANSITION/FULL SE	+3%	1597+92
FULL SE/START TRANSITION	+3%	1609+01
TRANSITION TO -2%	-	-
END TRANSITION/START NC	-2%	1612+18
END NC/START TRANSITION	-2%	1623+69
TRANSITION TO -3%	-	-
END TRANSITION/FULL SE	-3%	1624+33
FULL SE/START TRANSITION	-3%	1639+16
TRANSITION TO -2%	-	-
END TRANSITION/START NC	-2%	1639+79
END NC/START TRANSITION	-2%	1740+96
TRANSITION TO -2.2%	-	-
END TRANSITION/FULL SE	-2.2%	1741+08
FULL SE/START TRANSITION	-2.2%	1750+18
TRANSITION TO -2%	-	-
END TRANSITION/START NC	-2%	1750+31
END NC/START TRANSITION	-2%	1780+94
TRANSITION TO +3.4%	-	-
END TRANSITION/FULL SE	+3.4%	1784+18

2

SEQUENCE A
- PLACE SAWCUT AT EDGE OF EXISTING CONCRETE TRAVEL LANE
- REMOVE EXISTING ASPHALT
- EXCAVATE TO A TOTAL DEPTH OF 23.5 INCHES BELOW THE SURFACE
- REMOVE OR RECONNECT AND REPAIR DISTURBED EXISTING PIPE UNDERDRAIN AS DIRECTED BY THE ENGINEER
- PLACE GEOGRID TYPE SR
- PLACE 12 INCHES OF SELECT CRUSHED MATERIAL
- PLACE A MAXIMUM OF 9.5 INCHES BASE AGGREGATE DENSE 1 1/4-INCH
- ENSURE A 2-INCH MAXIMUM DROP-OFF WHERE THE SHOULDER ABUTS THE ADJACENT TRAVEL LANES FOR PEAK HOUR AND OFF PEAK HOUR FREEWAY TRAFFIC OPERATIONS PROVIDING TWO LANES IN EACH DIRECTION
- PROVIDE SHOULDER CROSS SLOPES WITH AN 8% MAXIMUM ROLLOVER WITH THE ADJACENT TRAVEL LANES FOR PEAK HOUR AND OFF PEAK HOUR FREEWAY TRAFFIC OPERATIONS PROVIDING TWO LANES IN EACH DIRECTION
- PLACE TRAFFIC CONTROL DRUMS AT THE INSIDE EDGE OF SHOULDER

SEQUENCE B
- REMOVE A MAXIMUM OF 5.5 INCHES OF BASE AGGREGATE DENSE 1 1/4-INCH TO BE PAID UNDER BID ITEM PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS
- PLACE 5.5 INCHES OF HMA PAVEMENT (LOWER-LOWER LAYER AND UPPER-LOWER LAYER) PER THE LAYERS AND GRADATIONS PROVIDED IN THE GENERAL NOTES
- ENSURE A 2 INCH MAXIMUM DROP OFF WHERE THE SHOULDER ABUTS THE ADJACENT TRAVEL LANES FOR PEAK HOUR AND OFF PEAK HOUR FREEWAY TRAFFIC OPERATIONS PROVIDING TWO LANES IN EACH DIRECTION
- PLACE TRAFFIC CONTROL DRUMS AT THE INSIDE EDGE OF SHOULDER

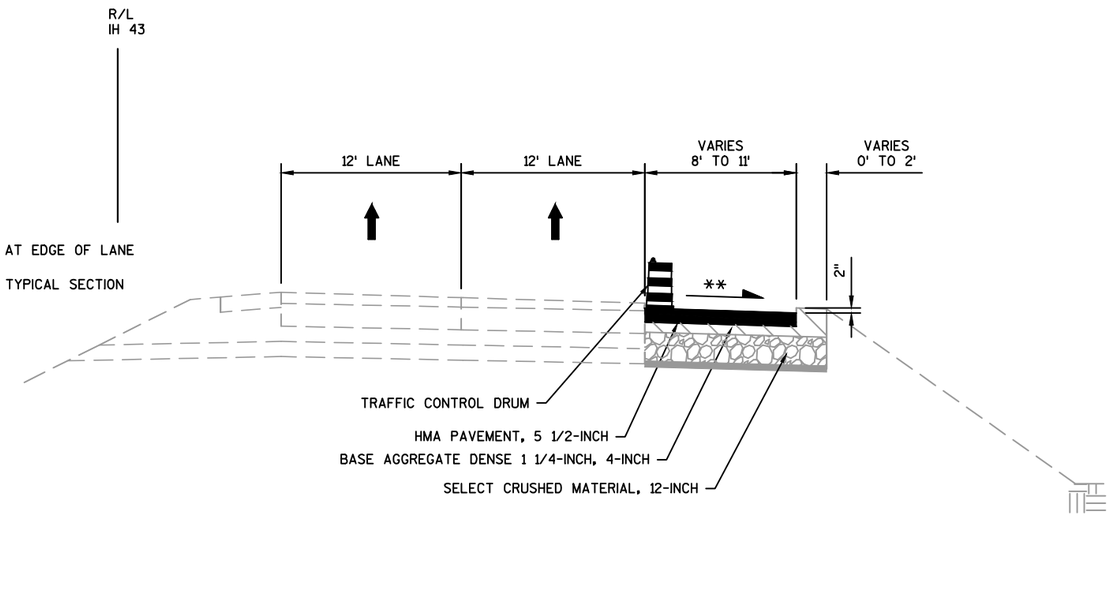
SEQUENCE C (SEE TYPICAL FINISHED SECTION)
- FROM STA 1271+08.37 TO STA 1367+92.50 NB AND SB, PLACE 2 INCHES OF HMA PAVEMENT (UPPER LAYER) PER THE LAYER AND GRADATION PROVIDED IN THE GENERAL NOTES IN ONE CONTINUOUS PASS DURING FREEWAY CLOSURE HOURS
- FROM STA 1578+00.00 TO STA 1784+50.00, PLACE 2 INCHES OF HMA PAVEMENT (UPPER LAYER) PER THE LAYER AND GRADATION PROVIDED IN THE GENERAL NOTES DURING ONE WEEKEND FROM 10:00 PM ON A FRIDAY TO 6:00 AM THE FOLLOWING MONDAY



SEQUENCE A

* 8% MAXIMUM ROLLOVER AT EDGE OF LANE

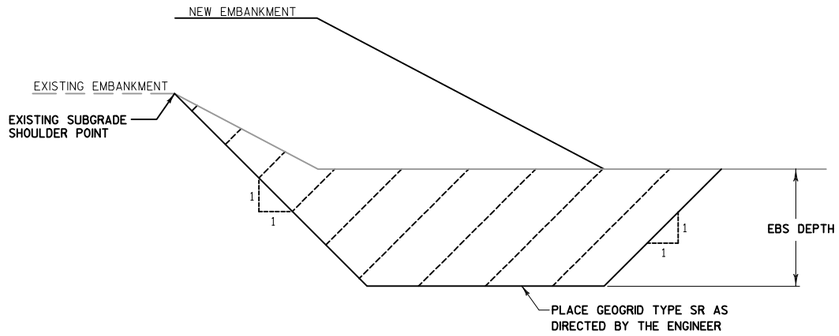
** VARIES, SEE FINISHED TYPICAL SECTION



SEQUENCE B

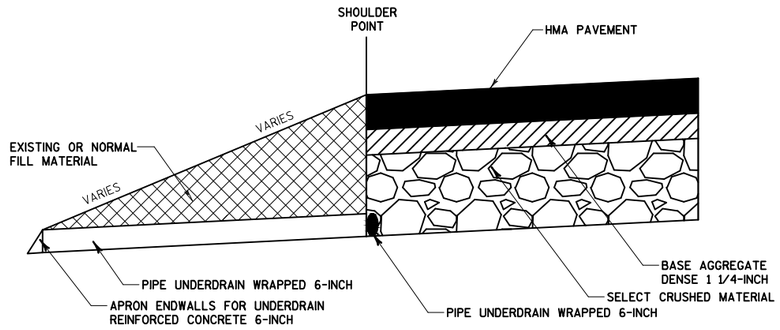
IH 43 STAGE 1 SEQUENCE OF OPERATIONS

NB SHOWN MIRROR FOR SB

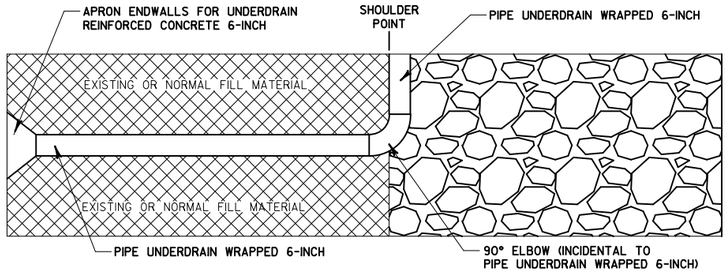


EXCAVATION BELOW SUBGRADE (EBS)

LIMITS TO BE DETERMINED BY ENGINEER IN THE FIELD

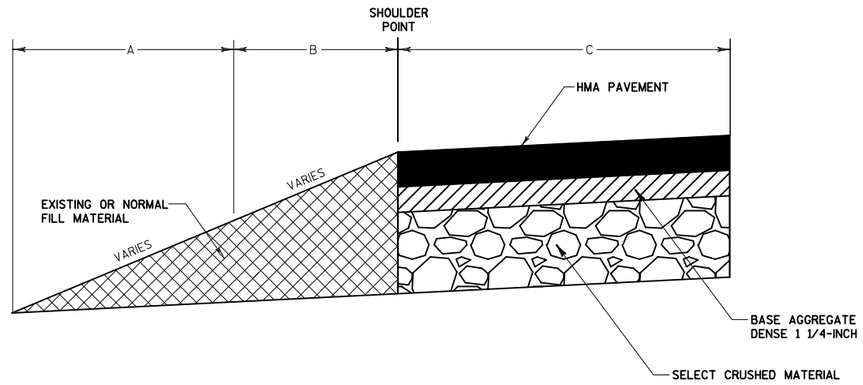


TYPICAL HALF SECTION

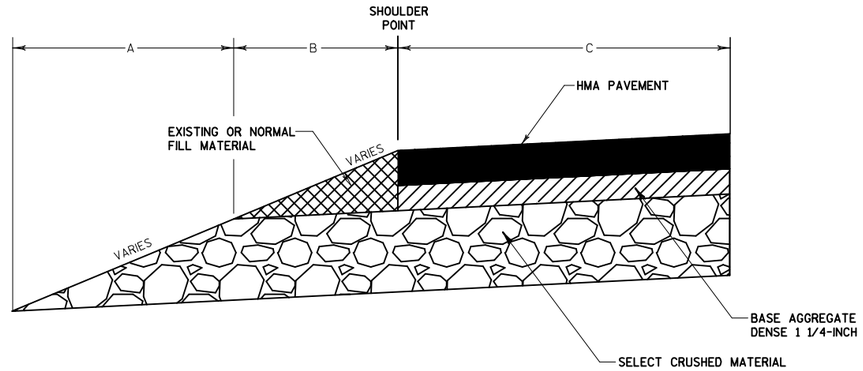


PIPE UNDERDRAIN DETAIL

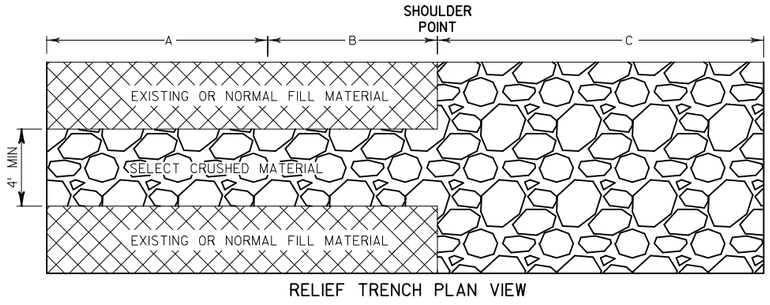
SEE STORM SEWER PLANS AND
MISCELLANEOUS QUANTITIES FOR LOCATIONS



TYPICAL HALF SECTION WITHOUT RELIEF TRENCH



TYPICAL HALF SECTION WITH RELIEF TRENCH

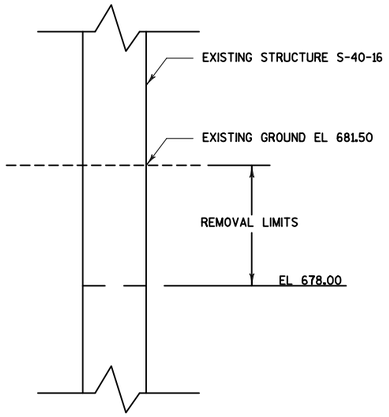


RELIEF TRENCH PLAN VIEW

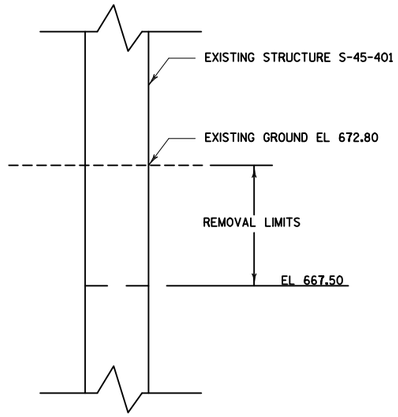
RELIEF TRENCH

CONSTRUCT RELIEF TRENCH AT:

STA 1274+00 LT	STA 1702+00, RT
STA 1277+00 LT	STA 1735+50, RT
STA 1597+75 RT	STA 1763+00, RT
STA 1661+00, RT	



REMOVING OVERHEAD SIGN STRUCTURE S-40-16
STA 1280+28, 78'RT

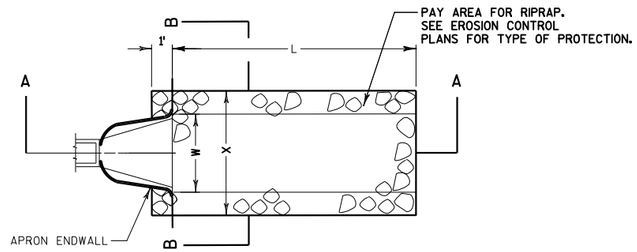


REMOVING OVERHEAD SIGN STRUCTURE S-45-401
STA 1337+16, 85'LT
(WEST FOUNDATION ONLY)
(EAST FOUNDATION TO REMAIN)

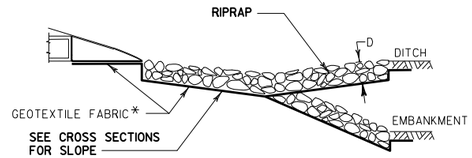
RUNOFF COEFFICIENT TABLE

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

TOTAL PROJECT AREA = 243.21 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 26.38 ACRES



PLAN VIEW



SECTION A-A

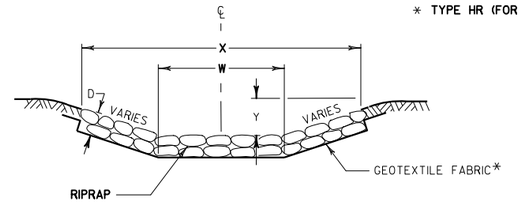
L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

D = 18" FOR RIPRAP MEDIUM

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

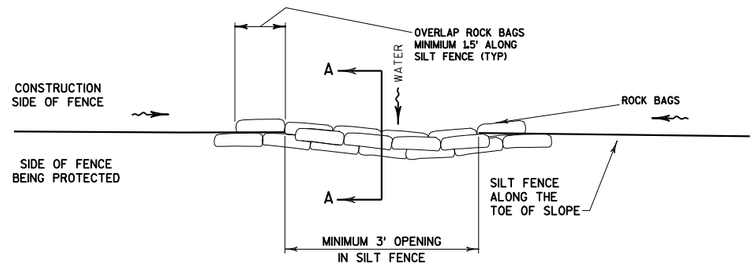
Y = 6' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

* TYPE HR (FOR MEDIUM ONLY)



SECTION B-B

RIPRAP AND GEOTEXTILE FABRIC DETAIL
AT APRON ENDWALLS
SEE EROSION CONTROL PLAN FOR LOCATIONS



PLAN VIEW

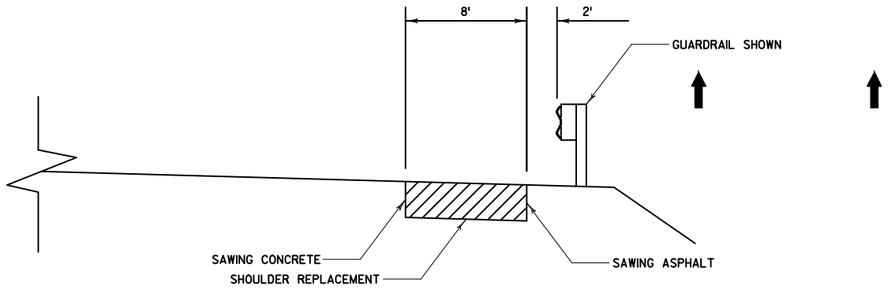


SECTION A-A

SILT FENCE DRAINAGE OUTLET, ROCK BAGS
PAID FOR UNDER INDIVIDUAL ITEMS
SEE EROSION CONTROL PLANS FOR LOCATIONS

NOTE:

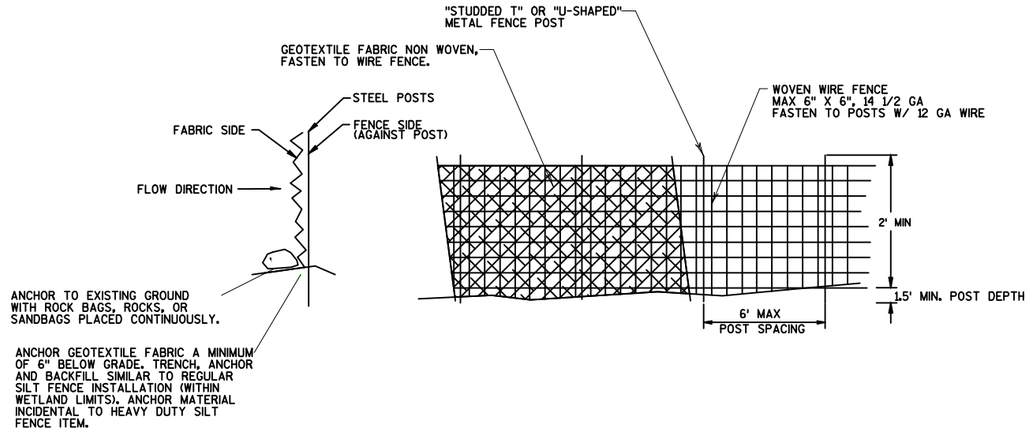
SAWCUT AND MAINTAIN A 2' MINIMUM CLEAR DISTANCE FROM EXISTING GUARDRAIL, CONCRETE BARRIER AND SLOPE PAVING THAT ARE TO REMAIN.



SHOULDER REPLACEMENT ADJACENT TO GUARDRAIL, CONCRETE BARRIER, SLOPE PAVING

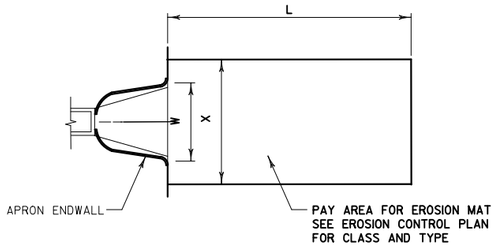
SEE PLAN DETAILS FOR LOCATIONS

STA 1632+94.11 TO STA 1633+50.07, RT
STA 1679+51.75 TO STA 1685+97.36, RT
STA 1739+40.80 TO STA 1739+80.37, RT
STA 1779+39.68 TO STA 1780+54.22, RT



HEAVY DUTY SILT FENCE

SEE EROSION CONTROL PLAN FOR LOCATIONS



W = WIDTH OF APRON ENDWALL

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

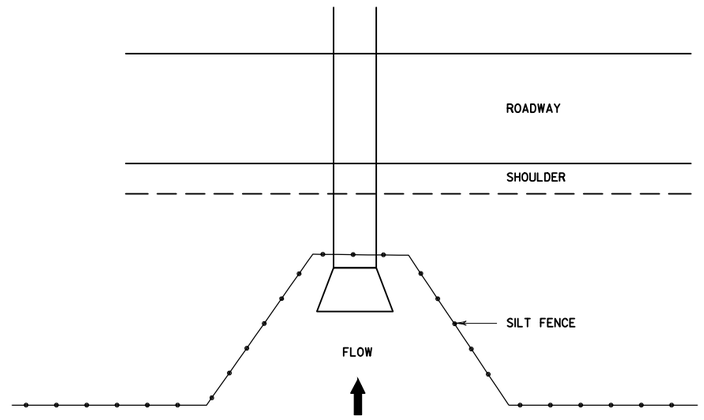
X = W+2' FOR TYPICAL CULVERT DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE DOWN EMBANKMENT SLOPE

EROSION MAT TREATMENT AT CULVERTS

SEE EROSION CONTROL PLAN FOR LOCATIONS

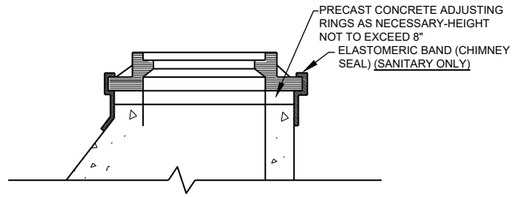
NOTE

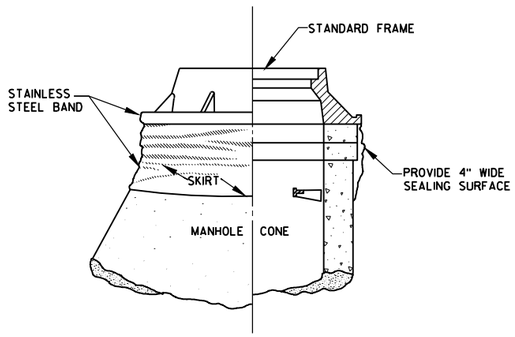
SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION



TYPICAL SILT FENCE DETAIL AT PIPE INLET

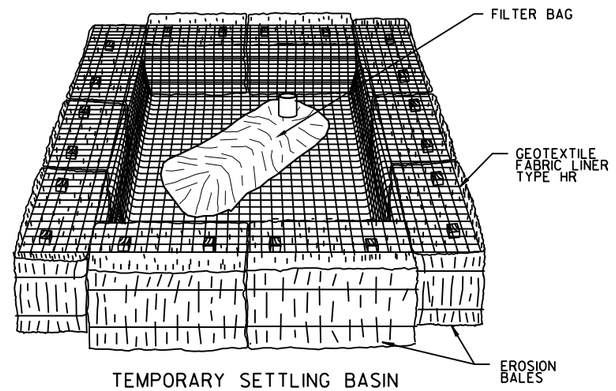
SEE EROSION CONTROL PLAN FOR LOCATIONS





1. CHIMNEY SEALS SHALL BE INSTALLED ON ALL SANITARY SEWERAGE SYSTEM MANHOLES.
2. CRETEX OR NPC FLEXRIB EXTERNAL OR INTERNAL SEALS ARE RECOMMENDED; ALL OTHER PRODUCTS OR OTHER DESIGN SOLUTIONS SHALL REQUIRE THE APPROVAL OF THE CITY ENGINEER.
3. CHIMNEY SEALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

ADJUSTING SANITARY MANHOLE



TEMPORARY SETTLING BASIN

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

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

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

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

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

USE A 20 FT. X 27 FT. BASIN

2

2

N

IH 43 SB

IH 43 NB

1259+00
1258+00
1257+00
1256+00
1255+00
1254+00
1253+00
1252+00
1251+00
1250+00
1249+00
1248+00
1247+00
1246+00
1245+00

BROWN DEER RD

PROJECT STORAGE AND STAGING AREAS
(SEE SPECIAL PROVISIONS
FOR ADDITIONAL INFORMATION)

WETLAND BOUNDARY (TYP)

PROJECT STORAGE AND STAGING AREAS
(SEE SPECIAL PROVISIONS FOR
ADDITIONAL INFORMATION)

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CONSTRUCTION DETAILS	SHEET 16	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\021005-CD.DWG
LAYOUT NAME - 021005-cd

PLOT DATE : 1/14/2021 9:43 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:150 FT

WISDOT/CADDS SHEET 42

2

LEGEND

OR X — CLEARING AND GRUBBING

REMOVING CONCRETE PAVEMENT

REMOVING CURB AND GUTTER

REMOVING FENCE

REMOVING GUARDRAIL

SLOPE INTERCEPT

SEE FTMS PLAN FOR FTMS REMOVALS

SEE PERMANENT SIGNING PLAN FOR SIGNING REMOVALS

2

2

MATCHLINE 1283+75.00

BEGIN PROJECT
STA 1271+08.37

SLOPE INTERCEPT (TYP)

EXISTING R/W (TYP)

R/L IH 43

IH 43 SB

IH 43 NB

EXISTING R/W (TYP)

SLOPE INTERCEPT (TYP)

REMOVING OVERHEAD SIGN STRUCTURE S-40-16

1269+00 1270+00 1271+00 1272+00 1273+00 1274+00 1275+00 1276+00 1277+00 1278+00 1279+00 1280+00 1281+00 1282+00 1283+00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	REMOVAL PLAN	SHEET 18	E

FILE NAME : C:\DOT WORK IH 43 WZ\021211-RM.DWG
LAYOUT NAME - 021211-rm- (1)

PLOT DATE : 1/26/2021 10:37 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 1298+50.00

REMOVING DELINEATORS AND MARKERS

SLOPE INTERCEPT (TYP)

REMOVING STORM SEWER 24-INCH

REMOVING APRON ENDWALL

REMOVING APRON ENDWALL

REMOVING DELINEATORS AND MARKERS

REMOVING DELINEATORS AND MARKERS

R/L IH 43

N PHEASANT LN

IH 43 SB

1284+00 1285+00 1286+00 1287+00 1288+00 1289+00 1290+00 1291+00 1292+00 1293+00 1294+00 1295+00 1296+00 1297+00 1298+00

REMOVING STORM SEWER 15-INCH

IH 43 NB

REMOVING APRON ENDWALL

NB EXIT RAMP

SLOPE INTERCEPT (TYP)

EXISTING R/W (TYP)

PORT WASHINGTON RD

REMOVING AND CAP EXISTING DRAINAGE STRUCTURE

REMOVING AND CAP EXISTING DRAINAGE STRUCTURE

MATCHLINE 1283+75.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	REMOVAL PLAN	SHEET 19	E

FILE NAME : C:\DOT WORK IH 43 WZ\021211-RM.DWG
LAYOUT NAME - 021211-rm- (2)

PLOT DATE : 1/26/2021 10:38 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N PHEASANT LN

COUNTY LINE RD

SLOPE INTERCEPT (TYP)

SEE FTMS PLAN FOR REMOVALS

R/L IH 43

SB ENTRANCE RAMP

REMOVING DELINEATORS AND MARKERS

REMOVING AND CAP EXISTING DRAINAGE STRUCTURE

IH 43 SB

1299+00 1300+00 1301+00 1302+00 1303+00 1304+00 1305+00 1306+00 1307+00 1308+00 1309+00 1310+00 1311+00 1312+00 1313+00

REMOVING AND CAP EXISTING DRAINAGE STRUCTURE

IH 43 NB

SEE FTMS PLAN FOR REMOVALS

REMOVING AND CAP EXISTING DRAINAGE STRUCTURE

SLOPE INTERCEPT (TYP)

REMOVING DELINEATORS AND MARKERS

REMOVING DELINEATORS AND MARKERS

REMOVING STORM SEWER 12-INCH

EXISTING R/W (TYP)

REMOVING DELINEATORS AND MARKERS

REMOVING AND CAP EXISTING DRAINAGE STRUCTURE

PORT WASHINGTON RD

FROM STA 1307+75 TO STA 1308+25 NB AND SB, NOTIFY THE WISDOT TMC PRIOR TO SAWING CONCRETE PAVEMENT. CONTACT JEFFREY MADSON AT (414) 225-3723 SEVEN DAYS IN ADVANCE

MATCHLINE 1298+50.00

MATCHLINE 1313+25.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	REMOVAL PLAN	SHEET 20	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\021211-RM.DWG
LAYOUT NAME - 021211-rm- (3)
PLOT DATE : 3/25/2021 8:40 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

MATCHLINE 1328+00.00

PORT WASHINGTON LN

EXISTING R/W (TYP)

REMOVING DELINEATORS AND MARKERS

REMOVING DELINEATORS AND MARKERS

R/L IH 43

SLOPE INTERCEPT (TYP)

IH 43 SB

1314+00 1315+00 1316+00 1317+00 1318+00 1319+00 1320+00 1321+00 1322+00 SLAB 1323+00 SLAB 1324+00 1325+00 1326+00 1327+00 1328

IH 43 NB

REMOVING APRON ENDWALL

REMOVING DELINEATORS AND MARKERS

REMOVING DELINEATORS AND MARKERS (2)

REMOVING DELINEATORS AND MARKERS

SLOPE INTERCEPT (TYP)

REMOVING DELINEATORS AND MARKERS

PORT WASHINGTON RD

EXISTING R/W (TYP)

MATCHLINE 1313+25.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	REMOVAL PLAN	SHEET 21	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\021211-RM.DWG
LAYOUT NAME - 021211-rm- (4)

PLOT DATE : 3/25/2021 8:41 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 1342+75.00

MATCHLINE 1328+00.00

PORT WASHINGTON RD

KATHERINE DR

FISH CREEK

IH 43 SB

IH 43 NB

R/L IH 43

REMOVING DELINEATORS AND MARKERS

REMOVING DELINEATORS AND MARKERS (2)

REMOVING AND CAP EXISTING DRAINAGE STRUCTURE

REMOVING OVERHEAD STRUCTURE S-45-401 AND WEST FOUNDATION

REMOVING OVERHEAD FREEWAY DMS (SEE FTMS PLAN)

SLOPE INTERCEPT (TYP)

EXISTING R/W (TYP)

EXISTING GUARDRAIL TO REMAIN

EAST FOUNDATION OF STRUCTURE S-45-401 TO REMAIN

EXISTING BOX CULVERT C-45-17 TO REMAIN, USE CAUTION WHEN EXCAVATING

1328+00 1329+00 1330+00 1331+00 1332+00 1333+00 1334+00 1335+00 1336+00 1337+00 1338+00 1339+00 1340+00 1341+00 1342+00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	REMOVAL PLAN	SHEET 22	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\021211-RM.DWG
LAYOUT NAME - 021211-rm- (5)
PLOT DATE : 3/31/2021 12:33 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

MATCHLINE 1357+50.00

REMOVING AND CAP EXISTING DRAINAGE STRUCTURE
REMOVING DELINEATORS AND MARKERS (2)
REMOVING DELINEATORS AND MARKERS (2)
REMOVING DELINEATORS AND MARKERS
SLOPE INTERCEPT (TYP)
REMOVING DELINEATORS AND MARKERS
REMOVING DELINEATORS AND MARKERS
EXISTING R/W (TYP)
REMOVING AND CAP EXISTING DRAINAGE STRUCTURE

IH 43 SB

1343+00 1344+00 1345+00 1346+00 1347+00 1348+00 1349+00 1350+00 1351+00 1352+00 1353+00 1354+00 1355+00 1356+00 1357+00

IH 43 NB

REMOVING AND CAP EXISTING DRAINAGE STRUCTURE
EXISTING R/W (TYP)
REMOVING DELINEATORS AND MARKERS
R/L IH 43
SLOPE INTERCEPT (TYP)
REMOVING DELINEATORS AND MARKERS
REMOVING AND CAP EXISTING DRAINAGE STRUCTURE
REMOVING AND CAP EXISTING DRAINAGE STRUCTURE

MATCHLINE 1342+75.00

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	REMOVAL PLAN	SHEET 23	E

FILE NAME : C:\DOT WORK IH 43 WZ\021211-RM.DWG
LAYOUT NAME - 021211-rm- (6)
PLOT DATE : 1/26/2021 10:46 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

2

NOTE:
SEE MISCELLANEOUS QUANTITIES FOR REMOVALS BETWEEN STA 1578+00 AND STA 1784+50.

N

DONGES BAY RD

REMOVING DELINEATORS AND MARKERS

SLOPE INTERCEPT (TYP)

EXISTING R/W

R/L IH 43

IH 43 SB

IH 43 NB

REMOVING DELINEATORS AND MARKERS

SLOPE INTERCEPT (TYP)

REMOVING DELINEATORS AND MARKERS

EXISTING R/W (TYP)

1358+00 1359+00 1360+00 1361+00 1362+00 1363+00 1364+00 1365+00 1366+00 1367+00 1368+00 1369+00 1370+00 1371+00 1372+00

EXISTING R/W

REMOVING DELINEATORS AND MARKERS

SLOPE INTERCEPT (TYP)

SLOPE INTERCEPT (TYP)

EXISTING R/W (TYP)

END CONSTRUCTION
STA 1367+92.50

REMOVING DELINEATORS AND MARKERS

MATCHLINE 1357+50.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	REMOVAL PLAN	SHEET 24	E

FILE NAME : C:\DOT WORK IH 43 WZ\021211-RM.DWG
LAYOUT NAME - 021211-rm- (7)

PLOT DATE : 1/26/2021 10:47 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

(AP01)	HMA PAVEMENT, 7 1/2-INCH
(SW01)	SAWING CONCRETE
(SW02)	SAWING ASPHALT
x x x x x x x	SAWCUT
■	PROPOSED INLET
◎	PROPOSED MANHOLE
▷	PROPOSED APRON ENDWALL

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING
CONCRETE TRAVEL LANE.

MATCHLINE 1283+75.00

BEGIN PROJECT
STA 1271+08.37

STA 1271+07.97,
-51.00'

STA 1271+08.37,
-40.49'

STA 1273+49.93,
-56.44'

R=19005'

SLOPE INTERCEPT (TYP)

R/L SB EP

R/L IH 43

EXISTING R/W (TYP)

CAUTION

STA 1282+33.81,
-77.00'

AP01

SW01

SW02

IH 43 SB

1269+00 1270+00 1271+00 1272+00 1273+00 1274+00 1275+00 1276+00 1277+00 1278+00 1279+00 1280+00 1281+00 1282+00 1283+00

1272SB+00 1273SB+00 1274SB+00 1275SB+00 1276SB+00 1277SB+00 1278SB+00 1279SB+00 1280SB+00 1281SB+00 1282SB+00 1283SB+00

41'

47'

77'

STA 1278+54.20,
49.00'

STA 1278+54.20,
61.00'

STA 1275+90.00,
61.00'

IH 43 NB

1276NB+00 1277NB+00 1278NB+00 1279NB+00 1280NB+00 1281NB+00 1282NB+00 1283NB+00

61'

49'

77'

STA 1282+50.00,
77.00'

STA 1275+90.00,
69.98'

SLOPE INTERCEPT (TYP)

STA 1278+34.54,
70.32'

CAUTION

R/L NB EP

EXISTING R/W (TYP)

WETLAND BOUNDARY (TYP)

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 26	E

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING CONCRETE TRAVEL LANE.

SOUTHBOUND SUPER ELEVATION TABLE		
PAVING NOTE	CROSS SLOPE	STATION
END NC/START TRANSITION	-2%	1292+00
TRANSITION TO +3% SE	-	-
END TRANSITION/FULL SE	+3%	1294+00

NORTHBOUND SUPER ELEVATION TABLE		
PAVING NOTE	CROSS SLOPE	STATION
END NC/START TRANSITION	-2%	1292+00
TRANSITION TO -3%	-	-
END TRANSITION/FULL SE	-3%	1294+00

MATCHLINE 1298+50.00

MATCHLINE 1283+75.00

WETLAND BOUNDARY (TYP)
R/L SB EP
SLOPE INTERCEPT (TYP)
R/L IH 43
STA 1290+72.78, -47.41'
AP01
SW01
IH 43 SB
IH 43 NB
N PHEASANT LN
CAUTION
R=4367'
STA 1297+24.50, -77.00'
STA 1297+24.50, -50.35'
STA 1295+47.53, -55.71'
STA 1297+24.50, 50.17'
STA 1297+24.50, 65.00'
R=4225'
CAUTION
EXISTING R/W (TYP)
EXISTING GUY WIRE TO REMAIN
STA 1294+25.00, 65.00'
STA 1294+25.00, 77.00'
PORT WASHINGTON RD
NB EXIT RAMP
R/L NB EP
SLOPE INTERCEPT (TYP)
AP01
47'
77'
49'
77'
50'
55'
55'

1284SB+00 1285SB+00 1286SB+00 1287SB+00 1288SB+00 1289SB+00 1290SB+00 1291SB+00 1292SB+00 1293SB+00 1294SB+00 1295SB+00 1296SB+00 1297SB+00 1298SB+00

1284+00 1285+00 1286+00 1287+00 1288+00 1289+00 1290+00 1291+00 1292+00 1293+00 1294+00 1295+00 1296+00 1297+00 1298+00

1284NB+00 1285NB+00 1286NB+00 1287NB+00 1288NB+00 1289NB+00 1290NB+00 1291NB+00 1292NB+00 1293NB+00 1294NB+00 1295NB+00 1296NB+00 1297NB+00 1298NB+00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 27	E

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING CONCRETE TRAVEL LANE.

N PHEASANT LN

COUNTY LINE RD

SB ENTRANCE RAMP

IH 43 SB

IH 43 NB

PORT WASHINGTON RD

SLOPE INTERCEPT (TYP)

R/L SB EP

R/L IH 43

R/L NB EP

EXISTING R/W (TYP)

WETLAND BOUNDARY (TYP)

MATCHLINE 1298+50.00

MATCHLINE 1313+25.00

AP01

SW01

SW02

R=4367'

R=4225'

R=4213'

R=2977'

R=2823'

STA 1304+38.68, -51.71'

STA 1305+06.75, 53.54'

STA 1306+00.00, 65.00'

STA 1306+00.00, 77.00'

STA 1308+84.37, -77.00'

STA 1308+84.37, -54.02'

STA 1308+84.37, 53.59'

STA 1308+84.37, 77.00'

STA 1310+00.00, -77.00'

STA 1310+00.00, -54.28'

STA 1310+00.00, 52.72'

STA 1310+00.00, 77.00'

STA 1312+00.00, -77.00'

STA 1312+00.00, -56.29'

STA 1312+00.00, 50.59'

STA 1312+00.32, 77.00'

STA 1312+17.46, 50.61'

NO WORK STA 1310+00.00 TO STA 1312+00.00

NO WORK STA 1310+00.00 TO STA 1312+00.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 28	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\021221-PD.DWG
LAYOUT NAME - 021221-pd - (3)

PLOT DATE : 3/31/2021 1:00 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE:
1) TEMPORARY SHORING LEFT IN PLACE FROM STA 1316+60 TO STA 1323+50 PLACED IN STAGE 2. SEE CROSS SECTIONS FOR SHORING LOCATION AND HEIGHT. OFFSETS GIVEN TO THE FACE OF TEMPORARY SHORING.

2) PLACE SAWCUT AT EDGE OF EXISTING CONCRETE TRAVEL LANE.

SOUTHBOUND SUPER ELEVATION TABLE		
PAVING NOTE	CROSS SLOPE	STATION
FULL SE/START TRANSITION	+3%	1314+75
TRANSITION TO -2%	-	-
END TRANSITION/START NC	-2%	1318+75

NORTHBOUND SUPER ELEVATION TABLE		
PAVING NOTE	CROSS SLOPE	STATION
FULL SE/START TRANSITION	-3%	1315+50
TRANSITION TO -2%	-	-
END TRANSITION/START NC	-2%	1317+00

BEGIN TEMPORARY SHORING LEFT IN PLACE
STA 1316+60.00,
-88.79'
SEE NOTE 1

END TEMPORARY SHORING LEFT IN PLACE
STA 1323+50.00,
-87.30'
SEE NOTE 1

PORT WASHINGTON LN

EXISTING R/W (TYP)

R/L SB EP

SLOPE INTERCEPT (TYP)

R=2977'

STA 1315+01.27,
-77.00'

R=4017'

R=29939'

STA 1327+07.37,
-54.08'

STA 1326+10.33,
-79.84'

1314SB+00 1315SB+00 1316SB+00 1317SB+00 1318SB+00 1319SB+00 1320SB+00 1321SB+00 1322SB+00 1323SB+00 1324SB+00 1325SB+00 1326SB+00 1327SB+00 1328SB+00

STA 1316+09.94,
-53.72'

STA 1317+20.82,
-83.25'

STA 1319+05.97,
-85.92'

AP01

IH 43 SB

R/L IH 43

1314+00 1315+00 1316+00 1317+00 1318+00 1319+00 1320+00 1321+00 1322+00 1323+00 1324+00 1325+00 1326+00 1327+00

SW01

IH 43 NB

NO WORK STA 1327+75.32 TO
STA 1330+74.89

1314NB+00 1315NB+00 1316NB+00 1317NB+00 1318NB+00 1319NB+00 1320NB+00 1321NB+00 1322NB+00 1323NB+00 1324NB+00 1325NB+00 1326NB+00 1327NB+00

STA 1316+09.94,
53.04'

STA 1316+09.94,
77.00'

R=2823'

R/L NB EP

AP01

STA 1327+07.37,
53.15'

STA 1327+07.21,
77.00'

R=37561'

STA 1327+75.32,
53.29'

SW02

STA 1327+75.46,
77.00'

SLOPE INTERCEPT (TYP)

WETLAND BOUNDARY (TYP)

PORT WASHINGTON RD

EXISTING R/W (TYP)

MATCHLINE 1328+00.00

MATCHLINE 1313+25.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 29	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\021221-PD.DWG
LAYOUT NAME - 021221-pd - (4)

PLOT DATE : 3/31/2021 1:01 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 1342+75.00

MATCHLINE 1328+00.00

PORT WASHINGTON RD

KATHERINE DR

IH 43 SB

IH 43 NB

FISH CREEK

R/L IH 43

R/L SB EP

R/L NB EP

EXISTING R/W (TYP)

SLOPE INTERCEPT (TYP)

CAUTION

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING CONCRETE TRAVEL LANE.

R=29939'

AP01

STA 1329+24.84, -78.15'

STA 1329+24.89, -53.47'

SW01

SW02

NO WORK STA 1329+24.89 TO STA 1332+25.32

STA 1332+25.47, -77.27'

STA 1332+25.32, -53.38'

STA 1330+74.89, 54.68'

STA 1330+74.85, 77.00'

R=37561'

NO WORK STA 1327+75.32 TO STA 1330+74.89

STA 1334+51.95, -77.00'

STA 1334+52.03, -54.29'

STA 1334+35.63, 53.67'

STA 1334+35.63, 77.00'

EXISTING BOX CULVERT C-45-17 TO REMAIN. USE CAUTION WHEN EXCAVATING. ADJUST SELECT CRUSH MATERIAL THICKNESS AS NEEDED WHEN CROSSING THE EXISTING BOX CULVERT.

WETLAND BOUNDARY (TYP)

54'

77'

1329SB+00 1330SB+00 1331SB+00 1332SB+00 1333SB+00 1334SB+00 1335SB+00 1336SB+00 1337SB+00 1338SB+00 1339SB+00 1340SB+00 1341SB+00 1342SB+00 1343SB+

1329+00 1330+00 1331+00 1332+00 1333+00 1334+00 1335+00 1336+00 1337+00 1338+00 1339+00 1340+00 1341+00 1342+00

1328NB+00 1329NB+00 1330NB+00 1331NB+00 1332NB+00 1333NB+00 1334NB+00 1335NB+00 1336NB+00 1337NB+00 1338NB+00 1339NB+00 1340NB+00 1341NB+00 1342NB+00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 30	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\021221-PD.DWG
LAYOUT NAME - 021221-pd - (5)
PLOT DATE : 3/31/2021 1:02 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING
CONCRETE TRAVEL LANE.

N

MATCHLINE 1357+50.00

MATCHLINE 1342+75.00

AP01
R/L SB EP
SLOPE INTERCEPT (TYP)
EXISTING R/W (TYP)
R/L IH 43
CAUTION
SW01
54'
17'
IH 43 SB
IH 43 NB
AP01
R/L NB EP
EXISTING R/W (TYP)
SLOPE INTERCEPT (TYP)

1344SB+00 1345SB+00 1346SB+00 1347SB+00 1348SB+00 1349SB+00 1350SB+00 1351SB+00 1352SB+00 1353SB+00 1354SB+00 1355SB+00 1356SB+00 1357SB+00

1343+00 1344+00 1345+00 1346+00 1347+00 1348+00 1349+00 1350+00 1351+00 1352+00 1353+00 1354+00 1355+00 1356+00 1357+00

1343NB+00 1344NB+00 1345NB+00 1346NB+00 1347NB+00 1348NB+00 1349NB+00 1350NB+00 1351NB+00 1352NB+00 1353NB+00 1354NB+00 1355NB+00 1356NB+00 1357NB+00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 31	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\021221-PD.DWG
LAYOUT NAME - 021221-pd - (6)
PLOT DATE : 3/31/2021 1:03 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING CONCRETE TRAVEL LANE.

N

DONGES BAY RD

CAUTION

SLOPE INTERCEPT (TYP)

STA 1358+36.85, -77.00'

STA 1358+36.88, -54.14'

EXISTING R/W

R=9005'

R/L IH 43

STA 1362+02.75, -69.56'

STA 1362+02.75, -54.08'

AP01

R=8995'

SW01

STA 1364+26.39, -63.25'

STA 1364+68.87, -63.25'

CAUTION

R/L SB EP

SLOPE INTERCEPT (TYP)

EXISTING R/W (TYP)

STA 1366+76.31, -65.29'

SW02

STA 1366+76.31, -54.31'

IH 43 SB

IH 43 NB

1358SB+00 1359SB+00 1360SB+00 1361SB+00 1362SB+00 1363SB+00 1364SB+00 1365SB+00 1366SB+00 1367SB+00

1358+00 1359+00 1360+00 1361+00 1362+00 1363+00 1364+00 1365+00 1366+00 1367+00 1368+00 1369+00 1370+00 1371+00 1372+00

1358NB+00 1359NB+00 1360NB+00 1361NB+00 1362NB+00 1363NB+00 1364NB+00 1365NB+00 1366NB+00 1367NB+00

77'

54'

STA 1362+40.69, 53.88'

STA 1362+40.67, 70.12'

STA 1364+42.54, 64.49'

STA 1367+92.50, 53.66'

STA 1367+92.50, 64.49'

EXISTING R/W

EXISTING R/W (TYP)

R/L NB EP

SLOPE INTERCEPT (TYP)

END CONSTRUCTION
STA 1367+92.50

STA 1358+88.59, 53.68'

STA 1358+88.61, 77.00'

SLOPE INTERCEPT (TYP)

NORTHBOUND SUPER ELEVATION TABLE		
PAVING NOTE	CROSS SLOPE	STATION
END NC/START TRANSITION	-2%	1366+50
TRANSITION TO +2%	-	-
END TRANSITION/FULL SE	+2%	1373+00

MATCHLINE 1357+50.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 32	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\021221-PD.DWG
LAYOUT NAME - 021221-pd - (7)

PLOT DATE : 3/31/2021 1:03 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING
CONCRETE TRAVEL LANE.

N

MATCHLINE 1585+01.00

2

WETLAND BOUNDARY (TYP)

EXISTING R/W (TYP)

BONNIWELL RD

R/L IH 43

IH 43 SB

1571+00 1572+00 1573+00 1574+00 1575+00 1576+00 1577+00 1578+00 1579+00 1580+00 1581+00 1582+00 1583+00 1584+00 1585

SAWCUT

SW01

STA 1578+00.00,
59.00'

IH 43 NB

69'

10'

AP01

BEGIN CONSTRUCTION
STA 1578+00.00

STA 1578+00.00,
69.00'

EXISTING R/W (TYP)

SW02

UNION PACIFIC RAILROAD

UNION PACIFIC RAILROAD

NORTH LAKE SHORE DR

MATCHLINE 1570+26.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 33	E

FILE NAME : C:\DOT WORK IH 43 WZ\021223-PD.DWG
LAYOUT NAME - 021223-pd - (1)

PLOT DATE : 1/26/2021 11:34 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING
CONCRETE TRAVEL LANE.

N

MATCHLINE 1599+76.00

MATCHLINE 1585+01.00

EXISTING R/W (TYP)

IH 43 SB

+00 1586+00 1587+00 1588+00 1589+00 1590+00 1591+00 1592+00 1593+00 1594+00 1595+00 1596+00 1597+00 1598+00 1599+00

R/L IH 43

69'

10'

IH 43 NB

SW01

AP01

EXISTING R/W (TYP)

WETLAND BOUNDARY (TYP)

UNION PACIFIC RAILROAD

NORTHBOUND SUPER ELEVATION TABLE		
PAVING NOTE	CROSS SLOPE	STATION
END NC/START TRANSITION	-2%	1594+76
TRANSITION TO +3%	-	-
END TRANSITION/FULL SE	+3%	1597+92

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 34	E

FILE NAME : C:\DOT WORK IH 43 WZ\021223-PD.DWG
LAYOUT NAME - 021223-pd - (2)

PLOT DATE : 1/26/2021 11:35 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING CONCRETE TRAVEL LANE.

N

MATCHLINE 1614+51.00

EXISTING R/W (TYP)

IH 43 SB

R/L IH 43

1600+00 1601+00 1602+00 1603+00 1604+00 1605+00 1606+00 1607+00 1608+00 1609+00 1610+00 1611+00 1612+00 1613+00 1614+00

IH 43 NB

SW01

APO1

19'

10'

EXISTING R/W (TYP)

UNION PACIFIC RAILROAD

WETLAND BOUNDARY (TYP)

MATCHLINE 1599+76.00

NORTHBOUND SUPER ELEVATION TABLE		
PAVING NOTE	CROSS SLOPE	STATION
FULL SE/START TRANSITION	+3%	1609+01
TRANSITION TO -2%	-	-
END TRANSITION/START NC	-2%	1612+18

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 35	E

FILE NAME : C:\DOT WORK IH 43 WZ\021223-PD.DWG
LAYOUT NAME - 021223-pd - (3)
PLOT DATE : 1/26/2021 11:37 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING
CONCRETE TRAVEL LANE.

N

MATCHLINE 1629+26.00

EXISTING R/W (TYP)

SB ENTRANCE RAMP

IH 43 SB

1615+00 1616+00 1617+00 1618+00 1619+00 1620+00 1621+00 1622+00 1623+00 1624+00 1625+00 1626+00 1627+00 1628+00 1629+00

AP01 SW01 10' 69'

STA 1619+94.39, 59.00'

IH 43 NB

R/L IH 43

STA 1624+91.20, 59.00'

STA 1624+91.20, 69.00'

AP01 SW01 10' 69'

SW02

STA 1619+94.39, 69.00'

SW02

EXISTING R/W (TYP)

NB EXIT RAMP

SHOULDER REPLACEMENT BETWEEN
STA 1619+94.39 AND STA 1624+91.20
WILL BE PART OF PROJECT ID 1229-04-76

WETLAND BOUNDARY (TYP)

MATCHLINE 1614+51.00

NORTHBOUND SUPER ELEVATION TABLE		
PAVING NOTE	CROSS SLOPE	STATION
END NC/START TRANSITION	-2%	1623+69
TRANSITION TO -3%	-	-
END TRANSITION/FULL SE	-3%	1624+33

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 36	E

FILE NAME : C:\DOT WORK IH 43 WZ\021223-PD.DWG
LAYOUT NAME - 021223-pd - (4)

PLOT DATE : 1/26/2021 11:40 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING CONCRETE TRAVEL LANE.

N

MATCHLINE 1644+01.00

SB ENTRANCE RAMP

CTH C

SB EXIT RAMP

EXISTING R/W (TYP)

RIPRAP

IH 43 SB

CAUTION

1630+00 1631+00 1632+00 1633+00 1634+00 1635+00 1636+00 1637+00 1638+00 1639+00 1640+00 1641+00 1642+00 1643+00 1644

SHOULDER REPLACEMENT BETWEEN STA 1641+02.49 AND STA 1651+15.58 WILL BE PART OF PROJECT ID 1229-04-76

SW01

SW02

69'

10'

R/L IH 43

IH 43 NB

STA 1641+02.49, 59.00'

STA 1633+50.51, 67.00'

STA 1633+50.51, 69.00'

WETLAND BOUNDARY (TYP)

AP01

STA 1632+94.94, 67.00'

STA 1632+94.94, 69.00'

STA 1641+02.49, 69.00'

NB ENTRANCE RAMP

NB EXIT RAMP

EXISTING R/W (TYP)

EXISTING SLOPE PAVING TO REMAIN. SEE CONSTRUCTION DETAIL FOR SHOULDER REPLACEMENT

MH

GUY

IP

NORTHBOUND SUPER ELEVATION TABLE		
PAVING NOTE	CROSS SLOPE	STATION
FULL SE/START TRANSITION	-3%	1639+16
TRANSITION TO -2%	-	-
END TRANSITION/START NC	-2%	1639+79

MATCHLINE 1629+26.00

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 37	E

FILE NAME : C:\DOT WORK IH 43 WZ\021223-PD.DWG
LAYOUT NAME - 021223-pd - (5)

PLOT DATE : 1/26/2021 11:42 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING
CONCRETE TRAVEL LANE.

N

MATCHLINE 1658+76.00

EXISTING R/W (TYP)

ULAO CREEK

SIGN

IH 43 SB

+00 1645+00 1646+00 1647+00 1648+00 1649+00 1650+00 1651+00 1652+00 1653+00 1654+00 1655+00 1656+00 1657+00 1658+00

STA 1651+15.58,
59.00'

SW01

SW02

IH 43 NB

10'

69'

APO1

EXISTING R/W (TYP)

SHOULDER REPLACEMENT BETWEEN
STA 1641+02.49 AND STA 1651+15.58
WILL BE PART OF PROJECT ID 1229-04-76

STA 1651+15.58,
69.00'

WETLAND BOUNDARY (TYP)

MATCHLINE 1644+01.00

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 38	E

FILE NAME : C:\DOT WORK IH 43 WZ\021223-PD.DWG
LAYOUT NAME - 021223-pd - (6)

PLOT DATE : 1/26/2021 11:44 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING
CONCRETE TRAVEL LANE.

N

MATCHLINE 1673+51.00

ULAO CREEK

EXISTING R/W (TYP)

IH 43 SB

R/L IH 43

1659+00 1660+00 1661+00 1662+00 1663+00 1664+00 1665+00 1666+00 1667+00 1668+00 1669+00 1670+00 1671+00 1672+00 1673+00

INL

69'

10'

SW01

AP01

IH 43 NB

EXISTING R/W (TYP)

WETLAND BOUNDARY (TYP)

MATCHLINE 1658+76.00

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 39	E

FILE NAME : C:\DOT WORK IH 43 WZ\021223-PD.DWG
LAYOUT NAME - 021223-pd - (7)

PLOT DATE : 1/26/2021 11:45 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING CONCRETE TRAVEL LANE.

WETLAND BOUNDARY (TYP)

EXISTING R/W (TYP)

ULAO CREEK

RIPRAP

LAKEFIELD RD

MATCHLINE 1688+26.00

R/L IH 43

IH 43 SB

EXISTING GUARDRAIL TO REMAIN, SEE CONSTRUCTION DETAIL FOR SHOULDER REPLACEMENT

1674+00 1675+00 1676+00 1677+00 1678+00 1679+00 1680+00 1681+00 1682+00 1683+00 1684+00 1685+00 1686+00 1687+00 1688+00

SW01

STA 1679+51.61, 67.00'

STA 1679+51.61, 69.00'

AP01

IH 43 NB

SW02

STA 1685+97.06, 59.00'

STA 1685+97.06, 67.00'

STA 1687+29.92, 59.00'

STA 1687+29.92, 69.00'

69'

10'

EXISTING B-45-28 TO REMAIN

EXISTING R/W (TYP)

ULAO CREEK

MATCHLINE 1673+51.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 40	E

FILE NAME : C:\DOT WORK IH 43 WZ\021224-PD.DWG
LAYOUT NAME - 021224-pd - (9)

PLOT DATE : 1/26/2021 11:56 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING
CONCRETE TRAVEL LANE.

N

MATCHLINE 1703+01.00

EXISTING R/W (TYP)

WETLAND BOUNDARY (TYP)

IH 43 SB

1689+00 1690+00 1691+00 1692+00 1693+00 1694+00 1695+00 1696+00 1697+00 1698+00 1699+00 1700+00 1701+00 1702+00 1703

69'

10'

R/L IH 43

IH 43 NB

SW01

AP01

EXISTING R/W (TYP)

STORAGE

MATCHLINE 1688+26.00

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 41	E

FILE NAME : C:\DOT WORK IH 43 WZ\021224-PD.DWG
LAYOUT NAME - 021224-pd - (10)

PLOT DATE : 1/26/2021 11:58 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING
CONCRETE TRAVEL LANE.

N

MATCHLINE 1717+76.00

EXISTING R/W (TYP)

R/L IH 43

IH 43 SB

+00 1704+00 1705+00 1706+00 1707+00 1708+00 1709+00 1710+00 1711+00 1712+00 1713+00 1714+00 1715+00 1716+00 1717+00

SW01

AP01

6.9'

10'

IH 43 NB

WETLAND BOUNDARY (TYP)

EXISTING R/W (TYP)

MATCHLINE 1703+01.00

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 42	E

FILE NAME : C:\DOT WORK IH 43 WZ\021224-PD.DWG
LAYOUT NAME - 021224-pd - (11)

PLOT DATE : 1/26/2021 11:59 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING
CONCRETE TRAVEL LANE.

N

MATCHLINE 1732+51.00

EXISTING R/W (TYP)

WETLAND BOUNDARY (TYP)

IP

IH 43 SB

1718+00 1719+00 1720+00 1721+00 1722+00 1723+00 1724+00 1725+00 1726+00 1727+00 1728+00 1729+00 1730+00 1731+00 1732+00

R/L IH 43

.69'

SWO1

IH 43 NB

.10'

APO1

EXISTING R/W (TYP)

N

Z

MATCHLINE 1717+76.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 43	E

FILE NAME : C:\DOT WORK IH 43 WZ\021224-PD.DWG
LAYOUT NAME - 021224-pd - (12)

PLOT DATE : 1/26/2021 12:03 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING CONCRETE TRAVEL LANE.

N

FALLS RD

IH 43 SB

IH 43 NB

EXISTING R/W (TYP)

WETLAND BOUNDARY (TYP)

RIPRAP

EXISTING SLOPE PAVING TO REMAIN. SEE CONSTRUCTION DETAIL FOR SHOULDER REPLACEMENT

1733+00 1734+00 1735+00 1736+00 1737+00 1738+00 1739+00 1740+00 1741+00 1742+00 1743+00 1744+00 1745+00 1746+00 1747+00

SWO1 R/L IH 43

10' 69'

APO1

EXISTING R/W (TYP)

STA 1739+80.37, 67.00'

STA 1739+80.37, 69.00'

SWO2

STA 1739+40.80, 67.00'

STA 1739+40.80, 69.00'

SWO1 69' 10' APO1

CAUTION

CAUTION

NORTHBOUND SUPER ELEVATION TABLE		
PAVING NOTE	CROSS SLOPE	STATION
END NC/START TRANSITION	-2%	1740+96
TRANSITION TO -2.2%	-	-
END TRANSITION/FULL SE	-2.2%	1741+08

MATCHLINE 1747+26.00

MATCHLINE 1732+51.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 44	E

FILE NAME : C:\DOT WORK IH 43 WZ\021224-PD.DWG
LAYOUT NAME - 021224-pd - (13)

PLOT DATE : 1/26/2021 12:04 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING
CONCRETE TRAVEL LANE.

N

MATCHLINE 1762+01.00

EXISTING R/W (TYP)

IH 43 SB

1748+00 1749+00 1750+00 1751+00 1752+00 1753+00 1754+00 1755+00 1756+00 1757+00 1758+00 1759+00 1760+00 1761+00 1762

R/L IH 43

IH 43 NB

69'

10'

SW01

AP01

EXISTING R/W (TYP)

WETLAND BOUNDARY (TYP)

NORTHBOUND SUPER ELEVATION TABLE		
PAVING NOTE	CROSS SLOPE	STATION
FULL SE/START TRANSITION	-2.2%	1750+18
TRANSITION TO -2%	-	-
END TRANSITION/START NC	-2%	1750+31

MATCHLINE 1747+26.00

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 45	E

FILE NAME : C:\DOT WORK IH 43 WZ\021224-PD.DWG
LAYOUT NAME - 021224-pd - (14)

PLOT DATE : 1/26/2021 12:06 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING CONCRETE TRAVEL LANE.

N

MATCHLINE 1776+76.00

LOADING DOCK

SB ENTRANCE RAMP

FOOTBRIDGE

EXISTING R/W (TYP)

RIPRAP

RIPRAP

IH 43 SB

+00 1763+00 1764+00 1765+00 1766+00 1767+00 1768+00 1769+00 1770+00 1771+00 1772+00 1773+00 1774+00 1775+00 1776+00

SW01

STA 1764+74.32,
59.00'

69'

IH 43 NB

R/L IH 43

STA 1771+47.47,
59.00'

SW01

69'

AP01

10'

STA 1764+74.32,
69.00'

SW02

SHOULDER REPLACEMENT BETWEEN
STA 1764+74.32 AND STA 1771+47.47
WILL BE PART OF
PROJECT ID 1229-04-76

SW02

STA 1771+47.47,
69.00'

AP01

10'

EXISTING R/W (TYP)

NB EXIT RAMP

WETLAND BOUNDARY (TYP)

MATCHLINE 1762+01.00

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 46	E

FILE NAME : C:\DOT WORK IH 43 WZ\021224-PD.DWG
LAYOUT NAME - 021224-pd - (15)

PLOT DATE : 1/26/2021 12:07 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE:
PLACE SAWCUT AT EDGE OF EXISTING CONCRETE TRAVEL LANE.

N

SB ENTRANCE RAMP

STH 60

EXISTING R/W (TYP)

SB EXIT RAMP

EXISTING SLOPE PAVING TO REMAIN. SEE CONSTRUCTION DETAIL FOR SHOULDER REPLACEMENT.

R/L IH 43

IH 43 SB

1777+00 1778+00 1779+00 1780+00 1781+00 1782+00 1783+00 1784+00 1785+00 1786+00 1787+00 1788+00 1789+00 1790+00 1791+00

STA 1779+39.68, 67.00'

STA 1780+54.22, 67.00'

SW01

IH 43 NB

STA 1787+00.00, 59.00'

10' 69'

CAUTION

SW02

AP01

STA 1779+39.68, 69.00'

STA 1780+54.22, 69.00'

STA 1787+00.00, 69.00'

SW02

END PROJECT
STA 1787+00.00

WETLAND BOUNDARY (TYP)

CAUTION

RIPRAP

NB EXIT RAMP

NB ENTRANCE RAMP

EXISTING R/W (TYP)

RIPRAP

RIPRAP

MATCHLINE 1776+76.00

NORTHBOUND SUPER ELEVATION TABLE		
PAVING NOTE	CROSS SLOPE	STATION
END NC/START TRANSITION	-2%	1780+94
TRANSITION TO +3.4%	-	-
END TRANSITION/FULL SE	+3.4%	1784+18

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	PLAN DETAILS	SHEET 47	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\021224-PD.DWG
LAYOUT NAME - 021224-pd - (16)

PLOT DATE : 3/31/2021 1:13 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

UTILITY INTERESTS REQUIRED		
PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED
641	CITY OF GLENDALE SEWER AND WATER	MUNICIPAL AGREEMENT

LEGEND

- CONCRETE PAVEMENT REPAIR
- CONCRETE PAVEMENT REPLACEMENT SHES
- (A) REMOVE CURB & GUTTER CONCRETE CURB & GUTTER 31-INCH SHES

N

BEGIN CONSTRUCTION
STA. 114+83.00

N PORT WASHINGTON RD SB

N PORT WASHINGTON RD NB

R/L N PORT WASHINGTON RD

115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+

COORDINATE ADJUSTMENT OF ELECTRIC MANHOLE WITH WE ENERGIES

CITY OF GLENDALE (641) ADJUSTING SANITARY MANHOLE SS84.295(4m)

ADJUSTING INLET COVERS

(641) CITY OF GLENDALE ADJUSTING SANITARY MANHOLE SS84.295(4m)

ADJUSTING MANHOLE COVERS

CITY OF GLENDALE (641) ADJUSTING WATER VALVE BOXES (4) SS84.295(4m)

W COVENTRY CT

PRIVATE DRIVAWAY

(A)

NOTES:

1. REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY"
"CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES"
"CONCRETE PAVEMENT REPAIR AND REPLACEMENT"
"PAVEMENT MARKING, MAINLINE AND TURN LANES"
"PAVEMENT MARKING WORDS, SYMBOLS AND ARROWS"
"STOP LINE AND CROSSWALK PAVEMENT MARKING"

2. WHERE APPLICABLE, RESTORE TURF AREA BEHIND CURB AND GUTTER REPLACEMENT TO A MINIMUM WIDTH OF 2-FT. USE TOPSOIL, EROSION MAT, FERTILIZER AND SEEDING AS IDENTIFIED IN THE MISCELLANEOUS QUANTITIES.

3. SAWING CONCRETE PAID SEPARATELY FROM CONCRETE PAVEMENT REPAIR, CONCRETE PAVEMENT REPLACEMENT SHES, AND REMOVING CURB & GUTTER BID ITEMS. SEE MISCELLANEOUS QUANTITIES FOR ADDITIONAL INFORMATION.

UTILITY INTERESTS REQUIRED		
PARCEL NUMBER	OWNER(S)	INTERESTS REQUIRED
641	CITY OF GLENDALE SEWER AND WATER	MUNICIPAL AGREEMENT

LEGEND

- CONCRETE PAVEMENT REPAIR
- CONCRETE PAVEMENT REPLACEMENT SHES
- (A) REMOVE CURB & GUTTER CONCRETE CURB & GUTTER 31-INCH SHES

N

CITY OF GLENDALE (641) ADJUSTING WATER VALVE BOXES (2) SS84.295(4m)

CITY OF GLENDALE (641) ADJUSTING WATER VALVE BOXES SS84.295(4m)

R/L N PORT WASHINGTON RD

ADJUSTING MANHOLE COVERS

ADJUSTING MANHOLE COVERS

N PORT WASHINGTON RD SB

N PORT WASHINGTON RD NB

Pt: 124+90.24

Pt: 127+18.68

122+00 123+00 124+00 125+00 126+00 127+00 128+00 129+00

CITY OF GLENDALE (641) ADJUSTING WATER VALVE BOXES (2) SS84.295(4m)

ADJUSTING INLET COVERS

(A)

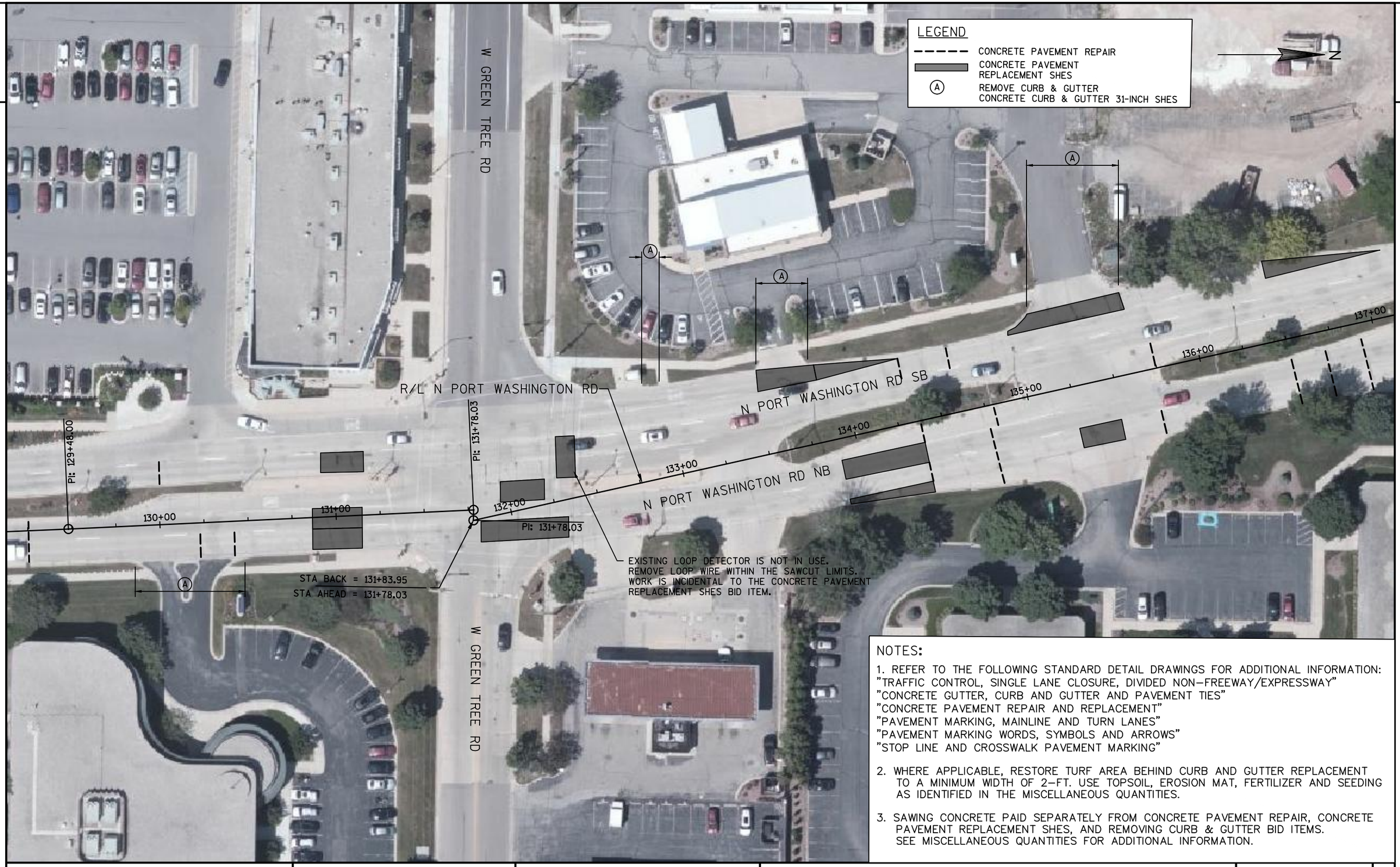
NOTES:

1. REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON–FREEWAY/EXPRESSWAY"
"CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES"
"CONCRETE PAVEMENT REPAIR AND REPLACEMENT"
"PAVEMENT MARKING, MAINLINE AND TURN LANES"
"PAVEMENT MARKING WORDS, SYMBOLS AND ARROWS"
"STOP LINE AND CROSSWALK PAVEMENT MARKING"

2. WHERE APPLICABLE, RESTORE TURF AREA BEHIND CURB AND GUTTER REPLACEMENT TO A MINIMUM WIDTH OF 2–FT. USE TOPSOIL, EROSION MAT, FERTILIZER AND SEEDING AS IDENTIFIED IN THE MISCELLANEOUS QUANTITIES.

3. SAWING CONCRETE PAID SEPARATELY FROM CONCRETE PAVEMENT REPAIR, CONCRETE PAVEMENT REPLACEMENT SHES, AND REMOVING CURB & GUTTER BID ITEMS. SEE MISCELLANEOUS QUANTITIES FOR ADDITIONAL INFORMATION.

2



NOTES:

1. REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON–FREEWAY/EXPRESSWAY"
"CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES"
"CONCRETE PAVEMENT REPAIR AND REPLACEMENT"
"PAVEMENT MARKING, MAINLINE AND TURN LANES"
"PAVEMENT MARKING WORDS, SYMBOLS AND ARROWS"
"STOP LINE AND CROSSWALK PAVEMENT MARKING"

2. WHERE APPLICABLE, RESTORE TURF AREA BEHIND CURB AND GUTTER REPLACEMENT TO A MINIMUM WIDTH OF 2–FT. USE TOPSOIL, EROSION MAT, FERTILIZER AND SEEDING AS IDENTIFIED IN THE MISCELLANEOUS QUANTITIES.

3. SAWING CONCRETE PAID SEPARATELY FROM CONCRETE PAVEMENT REPAIR, CONCRETE PAVEMENT REPLACEMENT SHES, AND REMOVING CURB & GUTTER BID ITEMS. SEE MISCELLANEOUS QUANTITIES FOR ADDITIONAL INFORMATION.

2



NOTES:

1. REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON–FREEWAY/EXPRESSWAY"
"CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES"
"CONCRETE PAVEMENT REPAIR AND REPLACEMENT"
"PAVEMENT MARKING, MAINLINE AND TURN LANES"
"PAVEMENT MARKING WORDS, SYMBOLS AND ARROWS"
"STOP LINE AND CROSSWALK PAVEMENT MARKING"

2. WHERE APPLICABLE, RESTORE TURF AREA BEHIND CURB AND GUTTER REPLACEMENT TO A MINIMUM WIDTH OF 2–FT. USE TOPSOIL, EROSION MAT, FERTILIZER AND SEEDING AS IDENTIFIED IN THE MISCELLANEOUS QUANTITIES.

3. SAWING CONCRETE PAID SEPARATELY FROM CONCRETE PAVEMENT REPAIR, CONCRETE PAVEMENT REPLACEMENT SHES, AND REMOVING CURB & GUTTER BID ITEMS. SEE MISCELLANEOUS QUANTITIES FOR ADDITIONAL INFORMATION.

LEGEND

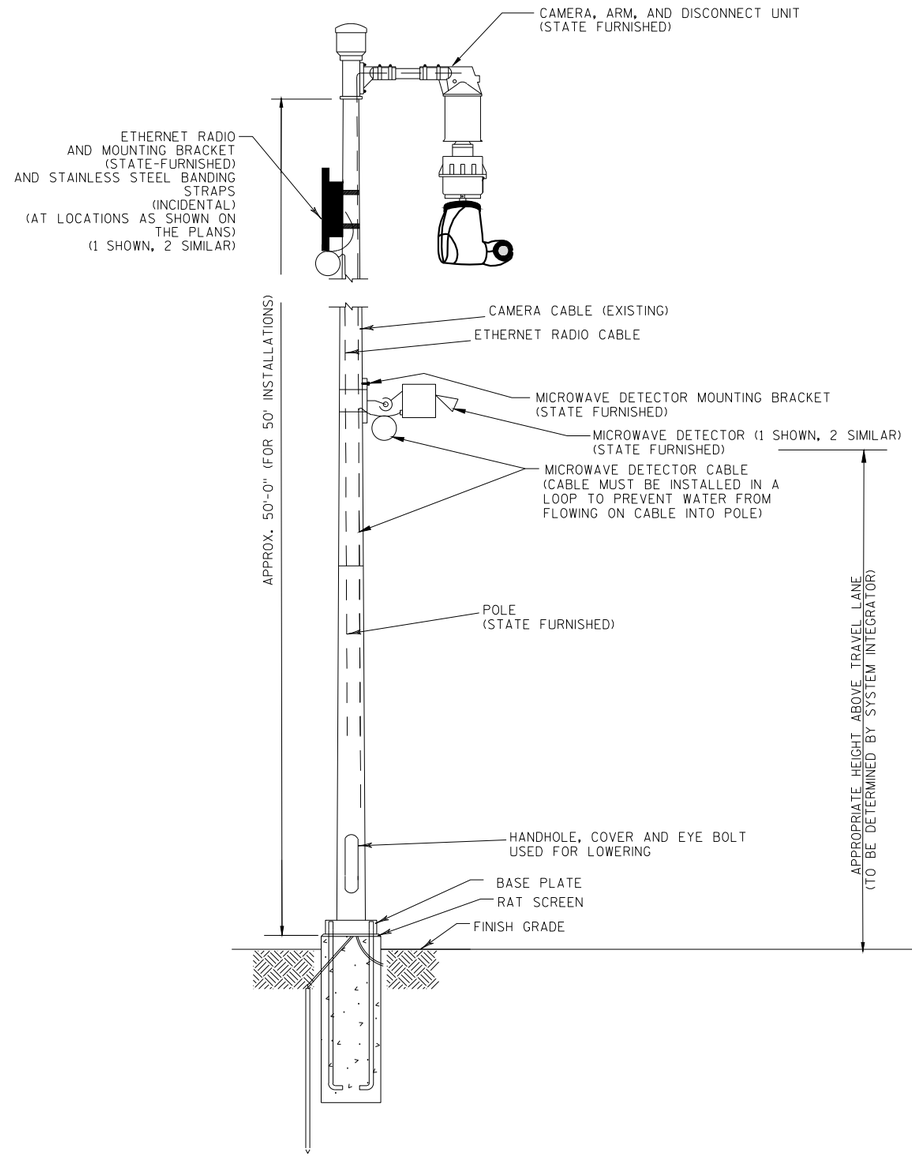
	PROPOSED	EXISTING
FTMS CONVENTIONAL SYMBOLS		
CCTV CAMERA AND POLE		
METER BREAKER PEDESTAL		
24X42-INCH CSCP PULL BOX		
FTMS (ITS) CONDUIT		
BREAKER DISCONNECT BOX		
COMMUNICATIONS VAULT, TYPE 1		
TYPE 6 POLE AND MICROWAVE DETECTOR		
MICROWAVE VEHICLE DETECTOR DETECTION ZONE		
SIGN BRIDGE AND DMS		
ITS FIELD CABINET AND CONCRETE BASE		
24 X 36-INCH CSCP PULL BOX		
IN-PAVEMENT LOOP DETECTOR		
TYPE 1 CONCRETE MANHOLE		

FTMS STANDARD ABBREVIATIONS

CB	CONTROLLER CABINET
CCTV	CLOSED CIRCUIT TELEVISION SITE
CV	COMMUNICATIONS VAULT
PB	PULL BOX
EX	EXISTING
SDS	SYSTEM DETECTOR STATION
FOC	FIBER OPTIC CABLE
F.O.	FIBER OPTIC
MD	MICROWAVE DETECTOR
S-F	STATE-FURNISHED
DMS	DYNAMIC MESSAGE SIGN
MH	MANHOLE
AP	ANTENNA POLE

1. THESE PLANS AND THE ASSOCIATED SPECIAL PROVISIONS REFLECT CONDITIONS KNOWN DURING THE DEVELOPMENT OF THE PLANS AND TECHNICAL SPECIAL PROVISIONS. ALL SCALES, DIMENSIONS AND LOCATIONS SHOWN IN THESE PLANS ARE APPROXIMATE. ACTUAL PHYSICAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR THE APPLICATION OF WORK SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE APPLICATION OF ALL WORK SHOWN IN THE PLANS TO THE ACTUAL PHYSICAL FIELD CONDITIONS TO PROVIDE A COMPLETE AND ACCEPTED PROJECT. IN THE EVENT THAT ACTUAL PHYSICAL FIELD CONDITIONS AFFECT OR PREVENT THE APPLICATION OR PROGRESSION OF ANY WORK SHOWN IN THE PLANS OR TECHNICAL SPECIAL PROVISIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, AND PRIOR TO ANY FURTHER WORK ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY LOCATION CHANGES OTHER THAN MINOR ADJUSTMENTS.
2. BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.
3. BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUITS, PULLBOXES, POLES, CABINET FOUNDATIONS, OR OTHER EQUIPMENT IS TO BE INSTALLED. THE CONTRACTOR IS FULLY RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.
4. NO TREES (AND/OR SHRUBS) SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
5. AREAS WITHIN THE RIGHT-OF-WAY DISTURBED SPECIFICALLY FOR FTMS CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITION WITH TOPSOIL, FERTILIZER, SEED, AND EROSION MAT, AND SHALL BE INCLUDED IN THE COST OF INSTALLING FTMS ITEMS. RESTORATION FOR AREAS DISTURBED FOR OTHER CONSTRUCTION OPERATIONS BUT ALSO CONTAINING FTMS CONSTRUCTION SHALL BE DONE ACCORDING TO REQUIREMENTS AND PAYMENT PROVISIONS FOR THE OTHER CONSTRUCTION OPERATIONS.
6. THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
7. DUE TO RAMP, LANE, SHOULDER CLOSURE RESTRICTIONS, AND WORK UNDER OTHER CONTRACTS, SOME WORK MAY BE REQUIRED TO BE PERFORMED AT NIGHT.
8. THE CONTRACTOR IS FULLY RESPONSIBLE FOR COORDINATING RAMP, LANE, SHOULDER, AND ROADWAY CLOSURES WITH OTHER CONTRACTS IN THE AREA.
9. THE CONTRACTOR SHALL CONTACT THE WISDOT STATEWIDE TRAFFIC OPERATIONS CENTER AT (414)227-2166 FIVE (5) WORKING DAYS PRIOR TO ENTERING ANY EXISTING WISDOT FTMS OR ITS CABINET.
10. ALL LOOP DETECTORS ARE STATIONED TO CENTER OF LEADING EDGE AS APPROACHED BY NORMAL VEHICLE PATH.
11. HAND DIG TRENCHES CROSSING EXISTING CONDUIT CONTAINING FIBER OPTIC CABLE.
12. VISUALLY VERIFY DEPTHS OF EXISTING CONDUITS CONTAINING FIBER OPTIC CABLE PRIOR TO CROSSING BY DIRECTIONAL BORE OR SPECIAL METHOD.

2

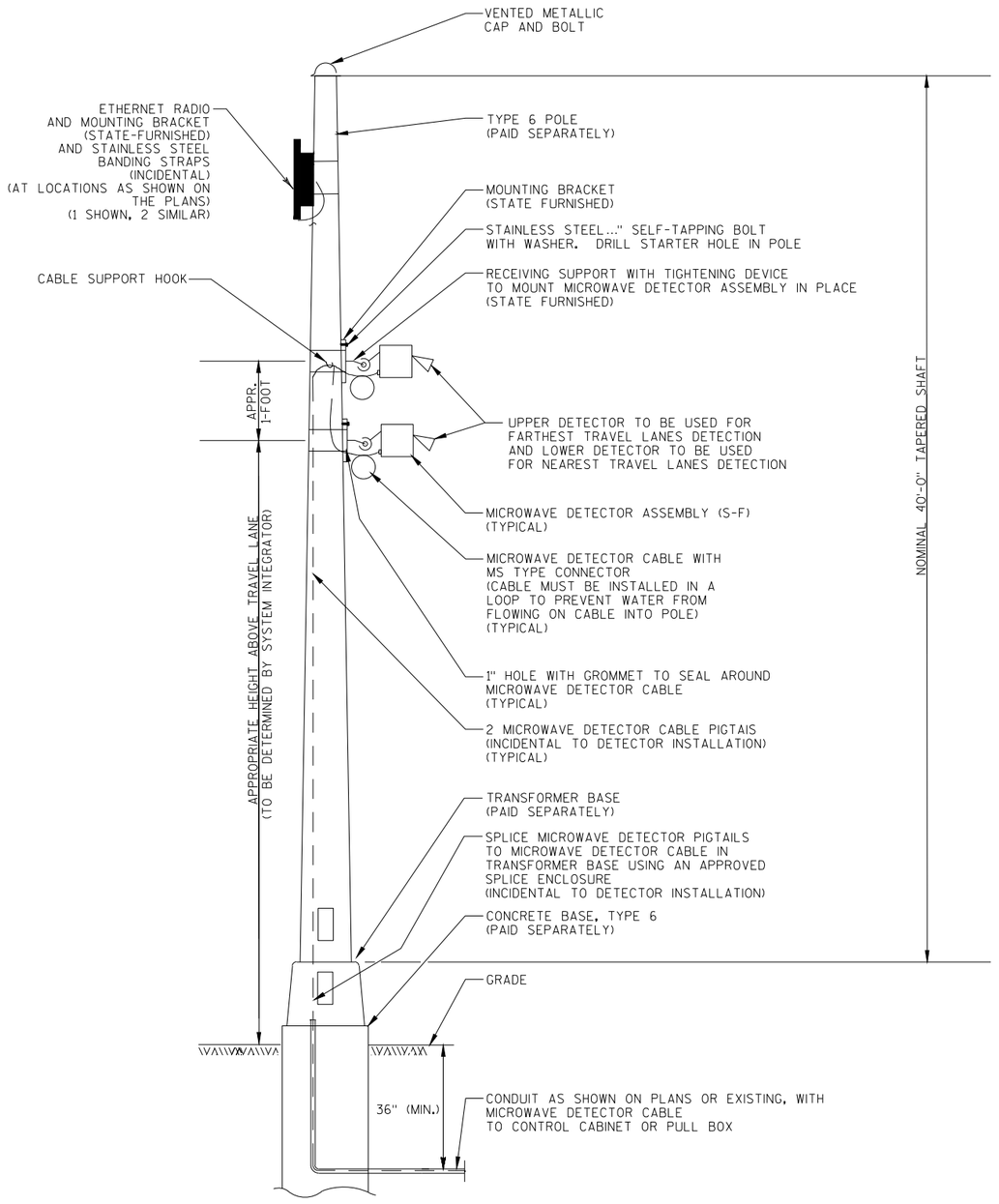


CAMERA POLES WITH EQUIPMENT

NOTES

1) ALL HARDWARE AND FASTENERS SHALL BE STAINLESS STEEL
2) POLE DRAWINGS SHOWN FOR BIDDING INFORMATION PURPOSES ONLY. POLES WILL BE STATE FURNISHED. BASE TO BE CONTRACTOR DESIGNED.
3) CONTRACTOR SHALL CONFIRM BOLT PATTERN OF CAMERA POLE PRIOR TO CONSTRUCTION OF CONCRETE BASE.
4) CONTRACTOR SHALL INSTALL GROUNDING LUG AS SHOWN

2



MICROWAVE DETECTOR INSTALLATION
ON TYPE 6 POLE

2

2

EX-CB-CCTV-40-0089
(INSTALL ETHERNET RADIO CABLE INTO
EXISTING ETHERNET SWITCH)

INSTALL IN EXISTING CONDUIT
(1) OUTDOOR RATED ETHERNET CABLE

EXPB1248

EXPB1250

EXPB1249

INSTALL IN EXISTING CONDUIT
(1) OUTDOOR RATED ETHERNET CABLE

LEAVE EXISTING WISDOT CABLE IN CONDUIT FOR LATER USE
(OTHER CABLES TO BE REMOVED BY OTHERS)

INSTALL IN EXISTING CONDUIT
(1) OUTDOOR RATED ETHERNET CABLE

EXPB1251
(1) ETHERNET CABLE
POWER EXTENDER (S-F)

REMOVE EXISTING WISDOT CABLES
(OTHER CABLES TO BE REMOVED BY OTHERS)

INSTALL IN EXISTING CONDUIT
(1) OUTDOOR RATED ETHERNET CABLE

EXPB1252

EXMHBD01
(4) F.O. SPLICES IN EXISTING F.O. SPLICE
ENCLOSURE
(SPLICE ACTIVE FTMS DEVICE CHAIN TO
NORTH STRANDS GOING SOUTH)

INSTALL IN EXISTING CONDUIT
(1) OUTDOOR RATED ETHERNET CABLE

EX-CCTV-40-0089
(1) INSTALL ETHERNET RADIO (S-F)

EXMHBD02
(CUT EXISTING WISDOT FOC HERE
AND LEAVE CABLE IN CONDUIT
SOUTH TO EXMHBD01)

W BROWN DEER RD

IH 43 SB

IH 43 NB

MATCHLINE 1243+95

MATCHLINE 1257+00

1244 1246 1250 1252 1254

N

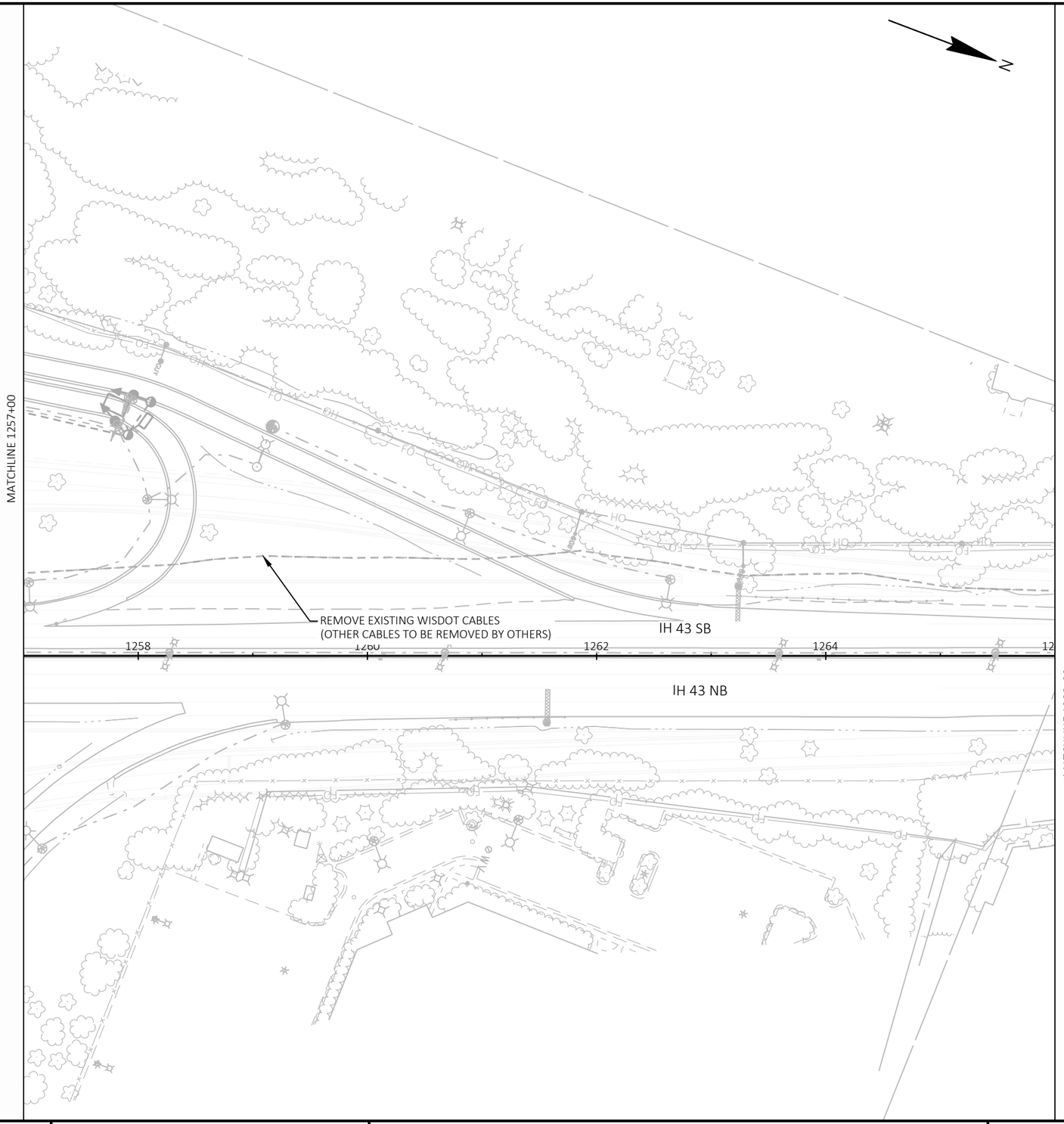
PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	FTMS PLAN	SHEET 55	E

FILE NAME : C:\CADDLIB\PW\PKUTZ\PWGREAT_LAKES\D0246818\FM_IH_43_CN_WZ.DWG
LAYOUT NAME - 1

PLOT DATE : 3/29/2021 5:15 PM PLOT BY : PAUL KUTZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	FTMS PLAN	SHEET 56	E

FILE NAME : C:\CADDLIB\PW\PKUTZ\PWGREAT_LAKES\D0246818\FM_IH_43_CN_WZ.DWG
LAYOUT NAME - 2

PLOT DATE : 3/29/2021 5:16 PM PLOT BY : PAUL KUTZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

MATCHLINE 1266+00

EXMH1274
(1) REMOVE MANHOLE

IH 43 SB

IH 43 NB

1266 1268 1270 1272 1274 1276 1278 1280

REMOVE EXISTING WISDOT CABLES
(OTHER CABLES TO BE REMOVED BY OTHERS)

REMOVE EXISTING WISDOT CABLES
(OTHER CABLES TO BE REMOVED BY OTHERS)

SLAB

MATCHLINE 1281+00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	FTMS PLAN	SHEET 57	E

FILE NAME : C:\CADDLIB\PW\PKUTZ\PWGREAT_LAKES\D0246818\FM_IH_43_CN_WZ.DWG
LAYOUT NAME - 3

PLOT DATE : 3/29/2021 5:17 PM PLOT BY : PAUL KUTZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 1281+00

N. PHEASANT LN.

IH 43 SB

72 FOC DOT

1282 1284 1286 1288 1290 1292 1294

REMOVE EXISTING WISDOT CABLES
(OTHER CABLES TO BE REMOVED BY OTHERS)

IH 43 NB

IH 43 NB OFF-RAMP TO N. PORT WASHINGTON RD.

PORT WASHINGTON RD

MATCHLINE 1296+00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	FTMS PLAN	SHEET 58	E

FILE NAME : C:\CADDLIB\PW\PKUTZ\PWGREAT_LAKES\D0246818\FM_IH_43_CN_WZ.DWG
LAYOUT NAME - 4

PLOT DATE : 3/29/2021 5:17 PM PLOT BY : PAUL KUTZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

EX-CB-RM-40-0086
INSTALL ETHERNET RADIO NETWORK CABLES AND MICROWAVE VEHICLE DETECTOR NETWORK CABLES INTO EXISTING ETHERNET SWITCH (CONNECT (1) ETHERNET RADIO TO ETHERNET RADIO AT EX-SDS-45-0057 AND CONNECT SECOND ETHERNET RADIO TO ETHERNET RADIO AT EX-CCTV-40-0089)

REMOVE EXISTING CABLES
INSTALL IN EXISTING CONDUIT
(4) OUTDOOR RATED NETWORK CABLES

N

EXPB1307
(1) INSTALL PROPOSED CONDUIT INTO EXISTING PULL BOX

(2) 2-INCH NONMETALLIC CONDUITS
(1) WITH (4) OUTDOOR RATED ETHERNET CABLES AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

DP1309
(1) TYPE 6 CONCRETE BASE
(1) 11-1/2-INCH TRANSFORMER BASE
(1) TYPE 6 POLE
(2) ETHERNET MICROWAVE VEHICLE DETECTORS (S-F)
(2) ETHERNET RADIOS (S-F)

REMOVE EXISTING WISDOT CABLES
(OTHER CABLES TO BE REMOVED BY OTHERS)

EXSB1305
(1) REMOVE RAMP CONTROL SIGNAL ASSEMBLY SIDEMOUNT
(1) REMOVE CONCRETE BASE

EXPB1305
(1) REMOVE PULL BOX

REMOVE EXISTING CABLES

REMOVE EXISTING CABLES

EXPB1312
(1) REMOVE PULL BOX

EXPB1309
(1) REMOVE PULL BOX

REMOVE EXISTING CABLES

EXMH1308
(1) REMOVE MANHOLE

REMOVE EXISTING CABLES

EXPB1310
(1) REMOVE PULL BOX

EXPB1306
(1) REMOVE PULL BOX

EXSB1306
(1) REMOVE RAMP CONTROL SIGNAL ASSEMBLY SIDEMOUNT
(1) REMOVE CONCRETE BASE

REMOVE EXISTING CABLES

REMOVE EXISTING CABLES

EXPB1311
(1) REMOVE PULL BOX

EXDP1311
(1) REMOVE MICROWAVE DETECTOR
(1) REMOVE POLE
(1) REMOVE CONCRETE BASE

REMOVE EXISTING CABLES

REMOVE EXISTING WISDOT CABLES
(OTHER CABLES TO BE REMOVED BY OTHERS)

EXFY1312
(1) REMOVE ADVANCE FLASHER ASSEMBLY
(1) REMOVE CONCRETE BASE

N. PHEASANT LN.

IH 43 SB

IH 43 NB

PORT WASHINGTON RD

MATCHLINE 1296+00

MATCHLINE 1310+75

1296 1298 1300 1302 1304 1306 1308 1310

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	FTMS PLAN	SHEET 59	E

FILE NAME : C:\CADDLIB\PW\PKUTZ\PWGREAT_LAKES\D0246818\FM_IH_43_CN_WZ.DWG
LAYOUT NAME - 5
PLOT DATE : 3/29/2021 5:18 PM
PLOT BY : PAUL KUTZ
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

2

N

N. JEAN NICOLET ROAD

REMOVE EXISTING WISDOT CABLES
(OTHER CABLES TO BE REMOVED BY OTHERS)

IH 43 SB

IH 43 NB

SLAB

1312 1314 1316 1318 1320 1322 1324

MATCHLINE 1310+75

COUNTY LINE ROAD

PORT WASHINGTON RD

MATCHLINE 1325+75

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	FTMS PLAN	SHEET 60	E

FILE NAME : C:\CADDLIB\PW\PKUTZ\PWGREAT_LAKES\D0246818\FM_IH_43_CN_WZ.DWG
LAYOUT NAME - 6

PLOT DATE : 3/29/2021 5:18 PM PLOT BY : PAUL KUTZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

N. JEAN NICOLET ROAD

W. ZEIDLER LN.

PORT WASHINGTON RD

KATHERINE DR.

IH 43 SB

IH 43 NB

MATCHLINE 1325+75

MATCHLINE 1340+75

EXMH1340
(1) REMOVE MANHOLE

EX-CB-DMS-45-0021
(1) REMOVE ITS FIELD CABINET
(1) REMOVE ITS FIELD CABINET BASE

REMOVE EXISTING CABLES

EXPB1338
(1) REMOVE PULL BOX

EX-MB-DMS-45-0021
(1) REMOVE ELECTRICAL SERVICE METER BREAKER PEDESTAL

EXPB1340
(1) REMOVE PULL BOX

REMOVE EXISTING CABLES

EXPB1341
(1) REMOVE PULL BOX

REMOVE EXISTING WISDOT CABLES
(OTHER CABLES TO BE REMOVED BY OTHERS)

REMOVE EXISTING CABLES

EXPB1337
(1) REMOVE PULL BOX

REMOVE EXISTING CABLES

REMOVE EXISTING WISDOT CABLES
(OTHER CABLES TO BE REMOVED BY OTHERS)

EX-S-45-401 / EX-DMS-45-0021
(1) REMOVE OVERHEAD FREEWAY DYNAMIC MESSAGE SIGN

1326 1328 1330 SLAB1332 1334 1336 SLAB 1338 1340

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	FTMS PLAN	SHEET 61	E

FILE NAME : C:\CADDLIB\PW\PKUTZ\PWGREAT_LAKES\D0246818\FM_IH_43_CN_WZ.DWG
LAYOUT NAME - 7

PLOT DATE : 3/29/2021 5:19 PM PLOT BY : PAUL KUTZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

REMOVE EXISTING WISDOT CABLES
(OTHER CABLES TO BE REMOVED BY OTHERS)

MATCHLINE 1340+75

IH 43 SB

1342 1344 1346 1348 1350 1352 1354

IH 43 NB

MATCHLINE 1355+75

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	FTMS PLAN	SHEET 62	E

FILE NAME : C:\CADDLIB\PW\PKUTZ\PWGREAT_LAKES\D0246818\FM_IH_43_CN_WZ.DWG
LAYOUT NAME - 8

PLOT DATE : 3/29/2021 5:20 PM PLOT BY : PAUL KUTZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

MATCHLINE 1355+75

RANCHITO LN.

DONGES BAY ROAD

REMOVE EXISTING WISDOT CABLES
(OTHER CABLES TO BE REMOVED BY OTHERS)

EX-CB-SDS-45-0057
(CONNECT MICROWAVE VEHICLE
DETECTORS TO EXISTING ETHERNET SWITCH

REMOVE EXISTING LDLICS
(DO NOT REMOVE 6-COUNT FOC)
INSTALL IN EXISTING CONDUIT
(3) OUTDOOR RATED NETWORK CABLES AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

(2) 2-INCH NONMETALLLIC CONDUITS
(1) WITH (3) OUTDOOR RATED NETWORK CABLES AND
(1) NO. 10 AWG TRAFFIC SIGNAL WIRE

PB1358

(2) 2-INCH NONMETALLLIC CONDUITS
(1) WITH (3) OUTDOOR RATED NETWORK CABLES AND
(1) NO, 10 AWG TRAFFIC SIGNAL WIRE

DP1358
(1) TYPE 6 CONCRETE BASE
(1) 11-1/2-INCH TRANSFORMER BASE
(1) TYPE 6 POLE
(2) ETHERNET MICROWAVE VEHICLE DETECTORS (S-F)
(1) ETHERNET RADIO (S-F)

REMOVE EXISTING LDLICS
(DO NOT REMOVE 6-COUNT FOC)

EXPB1358
(1) INSTALL
PROPOSED
1: CONDUIT INTO
EXISTING PULL
BOX

REMOVE EXISTING
CABLES

EXPB1357
(1) REMOVE PULL BOX

EXMH1357
(1) CUT EXISTING 72-COUNT FOC TO SOUTH
(LEAVE ACTIVE FIBER STRANDS CONNECTING EX-CCTV-45-0081
CONNECTED TO EXISTING ETHERNET SWITCH IN
EX-CB-SDS-45-0057)
(DO NOT CUT OR REMOVE 72-COUNT FOC TO THE NORTH)
(DO NOT REMOVE MANHOLE)

REMOVE EXISTING CABLES

EXPB1356
(1) REMOVE PULL BOX

IH 43 SB

IH 43 NB

1360 1362 1364 1366 1368

N

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	FTMS PLAN	SHEET 63	E

FILE NAME : C:\CADDLIB\PW\PKUTZ\PWGREAT_LAKES\D0246818\FM_IH_43_CN_WZ.DWG
LAYOUT NAME - 9

PLOT DATE : 3/29/2021 5:20 PM PLOT BY : PAUL KUTZ PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS I, TYPE B (FERTILIZER TYPE B, SEED MIXTURE No. 20)
- SILT FENCE
- HEAVY DUTY SILT FENCE
- EROSION BALE, BARRIER
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE B
- INLET PROTECTION TYPE C
- INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- WETLAND BOUNDARY

2

2

MATCHLINE 1283+75.00

HEAVY DUTY SILT FENCE

BEGIN PROJECT
STA 1271+08.37

WETLAND BOUNDARY (TYP)

SLOPE INTERCEPT (TYP)

R/L IH 43

EXISTING R/W (TYP)

IH 43 SB

1269+00 1270+00 1271+00 1272+00 1273+00 1274+00 1275+00 1276+00 1277+00 1278+00 1279+00 1280+00 1281+00 1282+00 1283+00

IH 43 NB

EXISTING R/W (TYP)

SLOPE INTERCEPT (TYP)

SILT FENCE DRAINAGE OUTLET
(SEE CONSTRUCTION DETAIL)

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 65	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\022001-EC.DWG
LAYOUT NAME - 022001-ec - (1)

PLOT DATE : 3/31/2021 1:38 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 1298+50.00

WETLAND BOUNDARY (TYP)

SLOPE INTERCEPT (TYP)

R/L IH 43

N PHEASANT LN

IH 43 SB

1284+00 1285+00 1286+00 1287+00 1288+00 1289+00 1290+00 1291+00 1292+00 1293+00 1294+00 1295+00 1296+00 1297+00 1298+00

IH 43 NB

NB EXIT RAMP

SILT FENCE DRAINAGE OUTLET
(SEE CONSTRUCTION DETAIL)

SLOPE INTERCEPT (TYP)

PORT WASHINGTON RD

EXISTING R/W (TYP)

MATCHLINE 1283+75.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 66	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\022001-EC.DWG
LAYOUT NAME - 022001-ec - (2)

PLOT DATE : 3/31/2021 1:39 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N PHEASANT LN

COUNTY LINE RD

SLOPE INTERCEPT (TYP)

SB ENTRANCE RAMP

R/L IH 43

IH 43 SB

IH 43 NB

1299+00 1300+00 1301+00 1302+00 1303+00 1304+00 1305+00 1306+00 1307+00 1308+00 1309+00 1310+00 1311+00 1312+00 1313+00

SLOPE INTERCEPT (TYP)

PORT WASHINGTON RD

EXISTING R/W (TYP)

WETLAND BOUNDARY (TYP)

MATCHLINE 1298+50.00

MATCHLINE 1313+25.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 67	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\022001-EC.DWG
LAYOUT NAME - 022001-ec - (3)

PLOT DATE : 3/31/2021 1:41 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 1328+00.00

MATCHLINE 1313+25.00

PORT WASHINGTON LN

EXISTING R/W (TYP)

SLOPE INTERCEPT (TYP)

R/L IH 43

IH 43 SB

IH 43 NB

1314+00 1315+00 1316+00 1317+00 1318+00 1319+00 1320+00 1321+00 1322+00 SLAB 1323+00 SLAB 1324+00 1325+00 1326+00 1327+00 1328

SLOPE INTERCEPT (TYP)

WETLAND BOUNDARY (TYP)

PORT WASHINGTON RD

EXISTING R/W (TYP)

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 68	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\022001-EC.DWG
LAYOUT NAME - 022001-ec - (4)

PLOT DATE : 3/31/2021 1:42 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 1342+75.00

MATCHLINE 1328+00.00

PORT WASHINGTON RD

PROPOSED R/W (TYP)

R/L IH 43

SLOPE INTERCEPT (TYP)

EXISTING R/W (TYP)

IH 43 SB

IH 43 NB

1329+00 1330+00 1331+00 1332+00 1333+00 1334+00 1335+00 1336+00 1337+00 1338+00 1339+00 1340+00 1341+00 1342+00

PORT WASHINGTON RD

KATHERINE DR

FISH CREEK

WETLAND BOUNDARY (TYP)

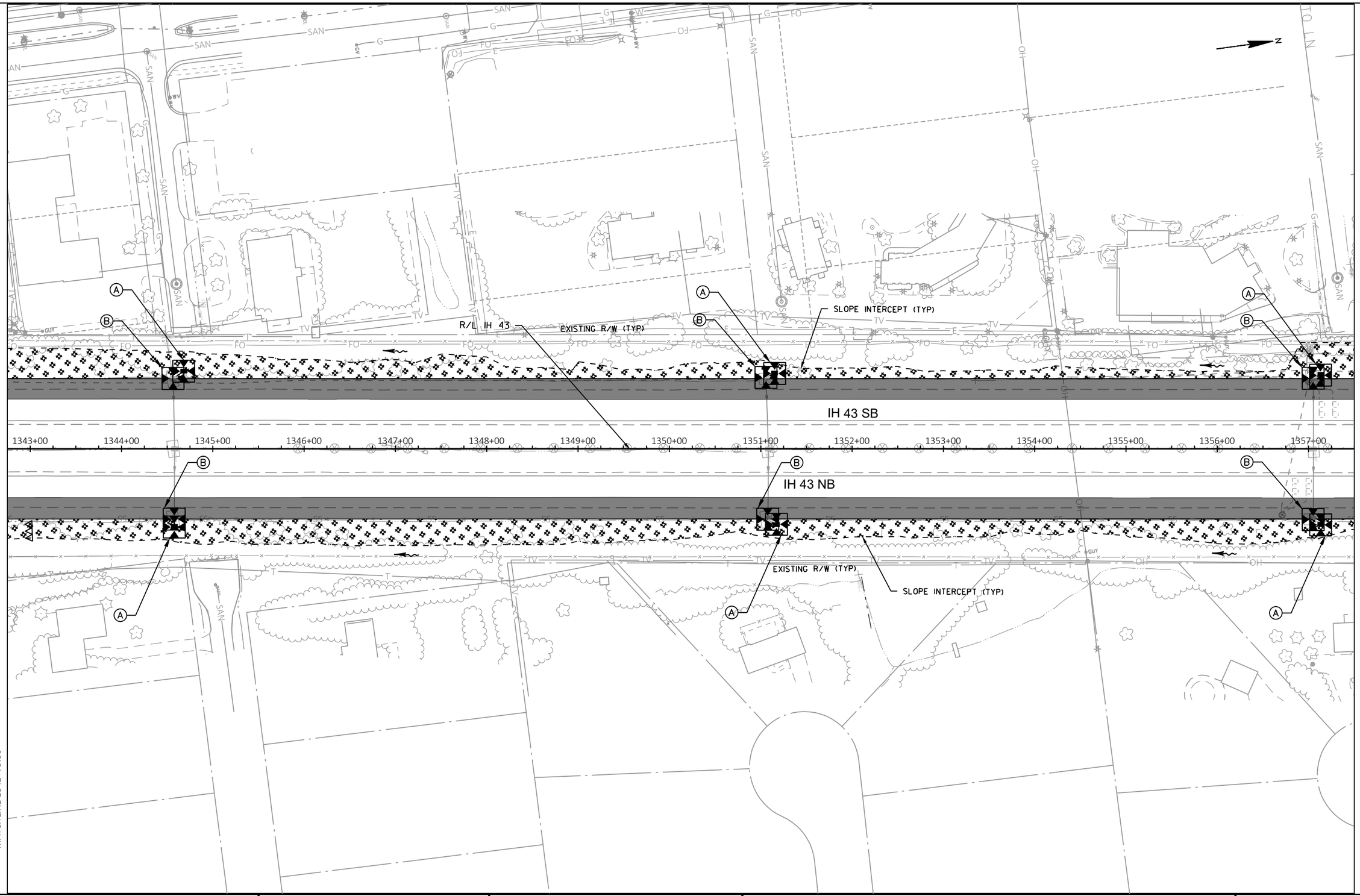
PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 69	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\022001-EC.DWG
LAYOUT NAME - 022001-ec - (5)

PLOT DATE : 3/31/2021 1:43 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 70	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\022001-EC.DWG
LAYOUT NAME - 022001-ec - (6)

PLOT DATE : 3/31/2021 1:44 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

DONGES BAY RD

SLOPE INTERCEPT (TYP)

EXISTING R/W

R/L IH 43

IH 43 SB

SLOPE INTERCEPT (TYP)

EXISTING R/W (TYP)

1358+00 1359+00 1360+00 1361+00 1362+00 1363+00 1364+00 1365+00 1366+00 1367+00 1368+00 1369+00 1370+00 1371+00 1372+00

IH 43 NB

EXISTING R/W

SLOPE INTERCEPT (TYP)

WETLAND BOUNDARY (TYP)

EXISTING R/W (TYP)

SLOPE INTERCEPT (TYP)

END CONSTRUCTION
STA 1367+92.50

MATCHLINE 1357+50.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 71	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\022001-EC.DWG
LAYOUT NAME - 022001-ec - (7)

PLOT DATE : 3/31/2021 1:45 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 1585+01.00

N

WETLAND BOUNDARY (TYP)

EXISTING R/W (TYP)

BONNIWELL RD

IH 43 SB

1570+00 1571+00 1572+00 1573+00 1574+00 1575+00 1576+00 1577+00 1578+00 1579+00 1580+00 1581+00 1582+00 1583+00 1584+00 1585

R/L IH 43

IH 43 NB

BEGIN CONSTRUCTION
STA 1578+00.00

EXISTING R/W (TYP)

UNION PACIFIC RAILROAD

UNION PACIFIC RAILROAD

NORTH LAKE SHORE DR

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 72	E

FILE NAME : C:\DOT WORK IH 43 WZ\022002-EC.DWG
LAYOUT NAME - 022002-EC - (8)

PLOT DATE : 1/26/2021 9:35 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE 1599+76.00

EXISTING R/W (TYP)

IH 43 SB

+00 1586+00 1587+00 1588+00 1589+00 1590+00 1591+00 1592+00 1593+00 1594+00 1595+00 1596+00 1597+00 1598+00 1599+00

R/L IH 43

IH 43 NB

SILT FENCE DRAINAGE OUTLET
(SEE CONSTRUCTION DETAIL)

EXISTING R/W (TYP)

WETLAND BOUNDARY (TYP)

UNION PACIFIC RAILROAD

MATCHLINE 1585+01.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 73	E

FILE NAME : C:\DOT WORK IH 43 WZ\022002-EC.DWG
LAYOUT NAME - 022002-EC - (9)

PLOT DATE : 1/26/2021 9:36 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

MATCHLINE 1614+51.00

EXISTING R/W (TYP)

IH 43 SB

1600+00 1601+00 1602+00 1603+00 1604+00 1605+00 1606+00 1607+00 1608+00 1609+00 1610+00 1611+00 1612+00 1613+00 1614+00

R/L IH 43

IH 43 NB

EXISTING R/W (TYP)

UNION PACIFIC RAILROAD

WETLAND BOUNDARY (TYP)

MATCHLINE 1599+76.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 74	E

FILE NAME : C:\DOT WORK IH 43 WZ\022002-EC.DWG
LAYOUT NAME - 022002-EC - (10)

PLOT DATE : 1/26/2021 9:38 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 1629+26.00

MATCHLINE 1614+51.00

EXISTING R/W (TYP)

SB ENTRANCE RAMP

IH 43 SB

1615+00 1616+00 1617+00 1618+00 1619+00 1620+00 1621+00 1622+00 1623+00 1624+00 1625+00 1626+00 1627+00 1628+00 1629+00

R/L IH 43

IH 43 NB

EXISTING R/W (TYP)

NB EXIT RAMP

WETLAND BOUNDARY (TYP)

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 75	E

FILE NAME : C:\DOT WORK IH 43 WZ\022002-EC.DWG
LAYOUT NAME - 022002-EC - (11)

PLOT DATE : 1/26/2021 9:40 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

SB ENTRANCE RAMP

C.TH C

SB EXIT RAMP

EXISTING R/W (TYP)

RIPRAP

IH 43 SB

1630+00 1631+00 1632+00 1633+00 1634+00 1635+00 1636+00 1637+00 1638+00 1639+00 1640+00 1641+00 1642+00 1643+00

R/L IH 43

IH 43 NB

NB ENTRANCE RAMP

WETLAND BOUNDARY (TYP)

EXISTING R/W (TYP)

NB EXIT RAMP

MH

GUY

MATCHLINE 1644+01.00

MATCHLINE 1629+26.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 76	E

FILE NAME : C:\DOT WORK IH 43 WZ\022002-EC.DWG
LAYOUT NAME - 022002-EC - (12)

PLOT DATE : 1/26/2021 9:42 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 1658+76.00

MATCHLINE 1644+01.00

N

EXISTING R/W (TYP)

ULAO CREEK

SIGN

IH 43 SB

1645+00 1646+00 1647+00 1648+00 1649+00 1650+00 1651+00 1652+00 1653+00 1654+00 1655+00 1656+00 1657+00 1658+00

IH 43 NB

EXISTING R/W (TYP)

WETLAND BOUNDARY (TYP)

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 77	E

FILE NAME : C:\DOT WORK IH 43 WZ\022002-EC.DWG
LAYOUT NAME - 022002-EC - (13)

PLOT DATE : 1/26/2021 9:45 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

MATCHLINE 1673+51.00

2

ULAO CREEK

EXISTING R/W (TYP)

IH 43 SB

R/L IH 43

1659+00 1660+00 1661+00 1662+00 1663+00 1664+00 1665+00 1666+00 1667+00 1668+00 1669+00 1670+00 1671+00 1672+00 1673+00

IH 43 NB

EXISTING R/W (TYP)

WETLAND BOUNDARY (TYP)

SILT FENCE DRAINAGE OUTLET
(SEE CONSTRUCTION DETAIL)

MATCHLINE 1658+76.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 78	E

FILE NAME : C:\DOT WORK IH 43 WZ\022002-EC.DWG
LAYOUT NAME - 022002-EC - (14)

PLOT DATE : 1/26/2021 9:46 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 1688+26.00

MATCHLINE 1673+51.00

N

LAKEFIELD RD

ULAO CREEK

WETLAND BOUNDARY (TYP)

EXISTING R/W (TYP)

RIPRAP

R/L IH 43

IH 43 SB

1674+00 1675+00 1676+00 1677+00 1678+00 1679+00 1680+00 1681+00 1682+00 1683+00 1684+00 1685+00 1686+00 1687+00 1688+00

IH 43 NB

EXISTING R/W (TYP)

HEAVY DUTY SILT FENCE

ULAO CREEK

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 79	E

FILE NAME : C:\DOT WORK IH 43 WZ\022002-EC.DWG
LAYOUT NAME - 022002-EC - (15)

PLOT DATE : 1/26/2021 9:48 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 1703+01.00

MATCHLINE 1688+26.00

N

EXISTING R/W (TYP)

WETLAND BOUNDARY (TYP)

IH 43 SB

1689+00 1690+00 1691+00 1692+00 1693+00 1694+00 1695+00 1696+00 1697+00 1698+00 1699+00 1700+00 1701+00 1702+00 1703

R/L IH 43

IH 43 NB

SILT FENCE DRAINAGE OUTLET
(SEE CONSTRUCTION DETAIL)

EXISTING R/W (TYP)

STORAGE

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 80	E

FILE NAME : C:\DOT WORK IH 43 WZ\022002-EC.DWG
LAYOUT NAME - 022002-EC - (16)

PLOT DATE : 1/26/2021 9:50 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

MATCHLINE 1717+76.00

2

N

EXISTING R/W (TYP)

IP

FO

R/L IH 43

IH 43 SB

+00 1704+00 1705+00 1706+00 1707+00 1708+00 1709+00 1710+00 1711+00 1712+00 1713+00 1714+00 1715+00 1716+00 1717+00

IH 43 NB

EXISTING R/W (TYP)

WETLAND BOUNDARY (TYP)

Z

MATCHLINE 1703+01.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 81	E

FILE NAME : C:\DOT WORK IH 43 WZ\022002-EC.DWG
LAYOUT NAME - 022002-EC - (17)

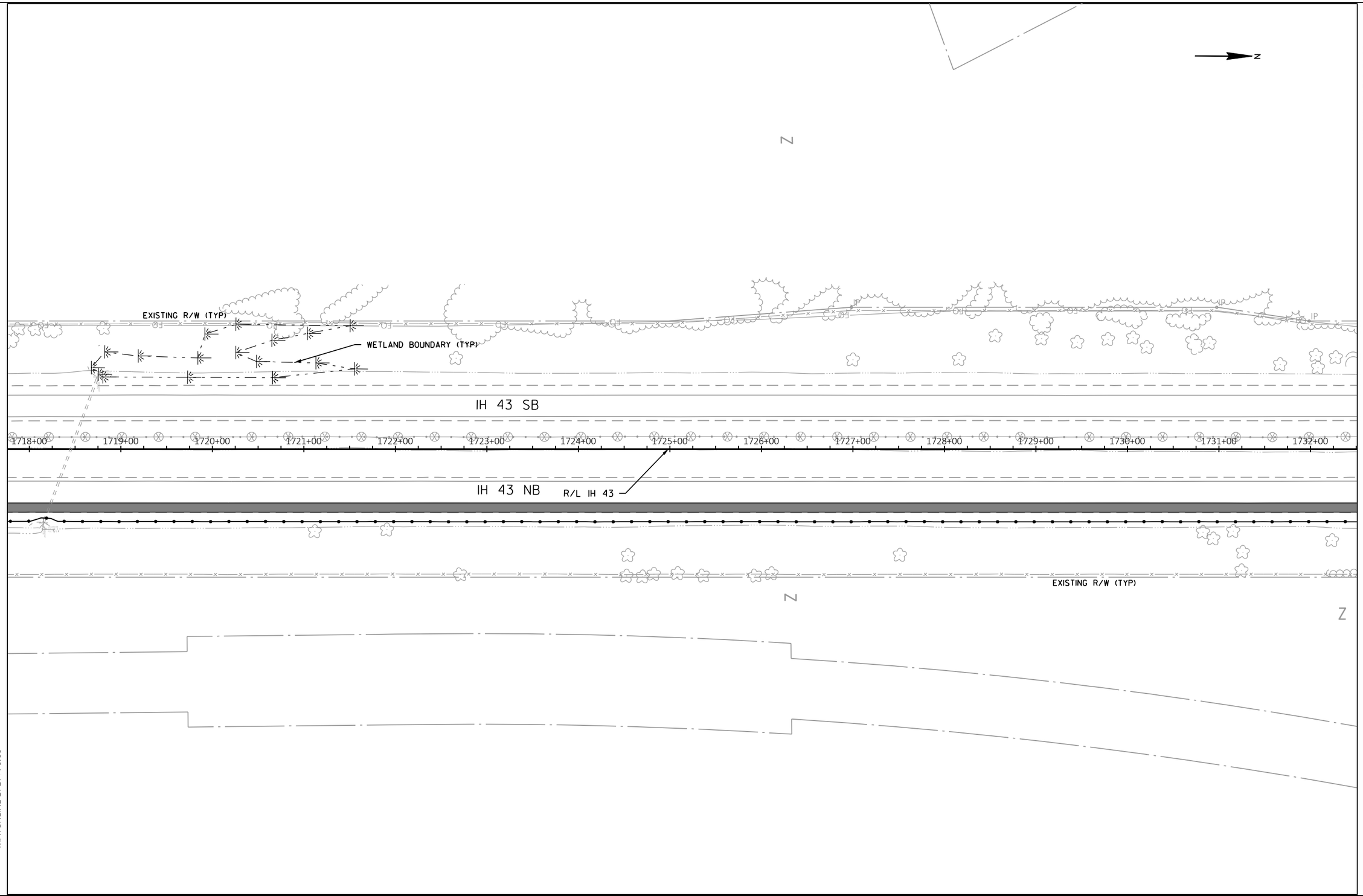
PLOT DATE : 1/26/2021 9:51 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE 1732+51.00



MATCHLINE 1717+76.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 82	E

FILE NAME : C:\DOT WORK IH 43 WZ\022002-EC.DWG
LAYOUT NAME - 022002-EC - (18)

PLOT DATE : 1/26/2021 9:53 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE 1747+26.00

MATCHLINE 1732+51.00

FALLS RD

EXISTING R/W (TYP)

WETLAND BOUNDARY (TYP)

RIPRAP

IH 43 SB

1733+00 1734+00 1735+00 1736+00 1737+00 1738+00 1739+00 1740+00 1741+00 1742+00 1743+00 1744+00 1745+00 1746+00 1747+00

R/L IH 43

IH 43 NB

EXISTING R/W (TYP)

SILT FENCE DRAINAGE OUTLET
(SEE CONSTRUCTION DETAIL)

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 83	E

FILE NAME : C:\DOT WORK IH 43 WZ\022002-EC.DWG
LAYOUT NAME - 022002-EC - (19)

PLOT DATE : 1/26/2021 9:55 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

MATCHLINE 1762+01.00

EXISTING R/W (TYP)

IP

FO

IH 43 SB

1748+00 1749+00 1750+00 1751+00 1752+00 1753+00 1754+00 1755+00 1756+00 1757+00 1758+00 1759+00 1760+00 1761+00 1762

R/L IH 43

IH 43 NB

EXISTING R/W (TYP)

WETLAND BOUNDARY (TYP)

MATCHLINE 1747+26.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 84	E

FILE NAME : C:\DOT WORK IH 43 WZ\022002-EC.DWG
LAYOUT NAME - 022002-EC - (20)

PLOT DATE : 1/26/2021 1:43 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE 1776+76.00

LOADING DOCK

SB ENTRANCE RAMP

FOOTBRIDGE

EXISTING R/W (TYP)

RIPRAP

RIPRAP

IH 43 SB

+00 1763+00 1764+00 1765+00 1766+00 1767+00 1768+00 1769+00 1770+00 1771+00 1772+00 1773+00 1774+00 1775+00 1776+00

IH 43 NB

R/L IH 43

EXISTING R/W (TYP)

NB EXIT RAMP

SILT FENCE DRAINAGE OUTLET
(SEE CONSTRUCTION DETAIL)

WETLAND BOUNDARY (TYP)

MATCHLINE 1762+01.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 85	E

FILE NAME : C:\DOT WORK IH 43 WZ\022002-EC.DWG
LAYOUT NAME - 022002-EC - (21)

PLOT DATE : 1/26/2021 1:42 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

SB ENTRANCE RAMP

STH 60

EXISTING R/W (TYP)

SB EXIT RAMP

R/L IH 43

IH 43 SB

1777+00 1778+00 1779+00 1780+00 1781+00 1782+00 1783+00 1784+00 1785+00 1786+00 1787+00 1788+00 1789+00 1790+00 1791+00

IH 43 NB

END PROJECT
STA 1787+00.00

WETLAND BOUNDARY (TYP)

NB EXIT RAMP

NB ENTRANCE RAMP

EXISTING R/W (TYP)

RIPRAP

RIPRAP

RIPRAP

MATCHLINE 1776+76.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL PLAN	SHEET 86	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\022002-EC.DWG
LAYOUT NAME - 022002-EC - (22)

PLOT DATE : 3/31/2021 3:35 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

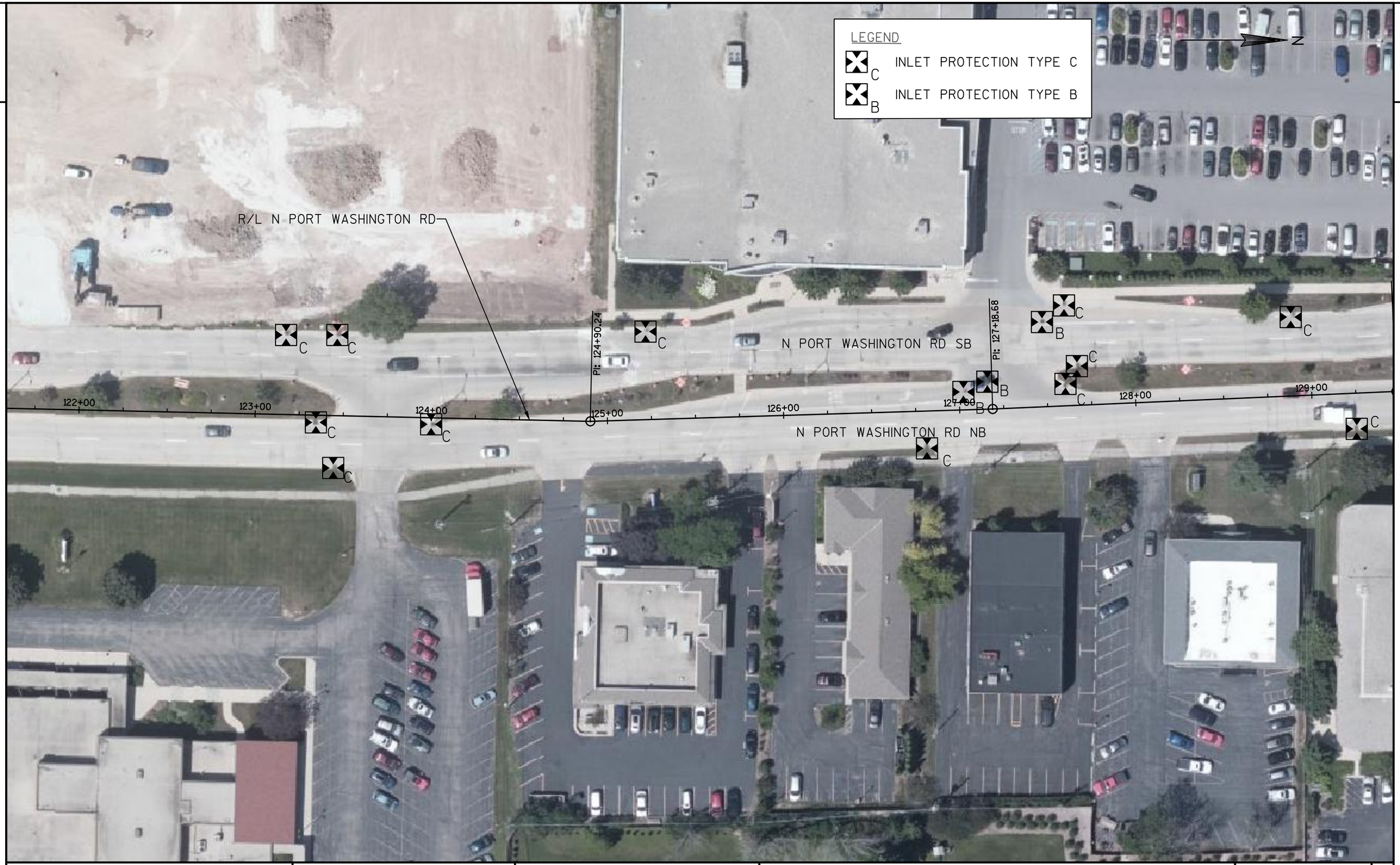
WISDOT/CADDS SHEET 42

2



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL	SHEET 87	E

2



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL	SHEET 88	E



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL	SHEET 89	E

FILE NAME : C:\DOT WORK IH 43 WZ\022044-EC.DWG PLOT DATE : 1/14/2021 3:24 PM PLOT BY : WALTER A. WOLAK II PLOT NAME :

WISDOT/CADDS SHEET 42

2

LEGEND

C INLET PROTECTION TYPE C

B INLET PROTECTION TYPE B

N

R/L N PORT WASHINGTON RD

N PORT WASHINGTON RD SB

N PORT WASHINGTON RD NB

W SUGAR LN

PI: 138+61.87

137+00

138+00

139+00

140+00

141+00

142+00

143+00

144+00

END CONSTRUCTION
STA. 140+70.00

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE/OZAUKEE	EROSION CONTROL	SHEET 90	E

GENERAL DRAINAGE NOTES

LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE OR AS NOTED ON PLAN.

RIM ELEVATIONS ARE GIVEN AT CENTER OF INLET OR MANHOLE.

PLAN LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND IS USED FOR ESTIMATING. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE AND IS USED TO COMPUTE PIPE SLOPE.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES AND PIPES SHOWN ON THE PLANS MAY BE ADJUSTED BY THE ENGINEER TO FIT EXISTING FIELD CONDITIONS.

UTILITY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE. LOCATIONS SHOWN ARE TAKEN FROM EXISTING RECORDS AND BEST INFORMATION AVAILABLE FROM EXISTING PLANS. IT IS EXPECTED THAT THERE MAY BE DISCREPANCIES AND OMISSIONS IN THE LOCATION OF UTILITIES AND STRUCTURES SHOWN. VERIFY ALL LOCATIONS IN THE FIELD.

COORDINATE WITH DIGGERS HOTLINE TO FIELD LOCATE UTILITIES. SHEETING SHALL NOT GO THROUGH UTILITIES. ANY UTILITIES DAMAGED DUE TO CONTRACTOR ACTIVITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE COMPLETE SATISFACTION OF THE UTILITY FACILITY.

VERIFY THE EXISTING STORM SEWER SYSTEM CONNECTION LOCATIONS AND ELEVATIONS PRIOR TO ORDERING DRAINAGE STRUCTURES AND PIPES. NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE INFORMATION SHOWN ON THE PLANS PRIOR TO INSTALLING THE PROPOSED STORM SEWER.

PROVIDE TEMPORARY POSITIVE DRAINAGE THROUGHOUT THE PROJECT DURING ALL PROJECT STAGES. PROVIDING TEMPORARY POSITIVE DRAINAGE IS INCIDENTAL TO CONSTRUCTION.

SUPPORTING UTILITIES DURING STORM SEWER CONSTRUCTION IS INCIDENTAL TO STORM SEWER PIPE AND/OR STORM SEWER STRUCTURE.

STORM SEWER LEGEND

(E**)	EXISTING DRAINAGE STRUCTURE
(***)	PROPOSED DRAINAGE STRUCTURE
●	PROPOSED MANHOLE
■	PROPOSED INLET
△	PROPOSED ENDWALL
E***	EXISTING STORM SEWER PIPE
P***	PROPOSED STORM SEWER PIPE
———	PROPOSED STORM SEWER PIPE PLAN VIEW
– – –	PROPOSED PIPE UNDERDRAIN
–··◁	PROPOSED PIPE UNDERDRAIN ENDWALL

2

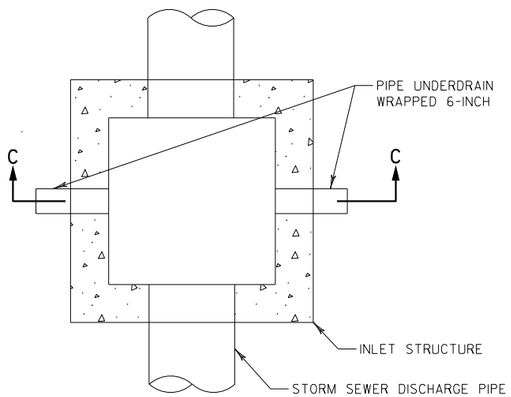
NOTES

1. CONNECTIONS TO INLETS SHALL USE PIPE UNDERDRAIN WRAPPED 6-INCH.

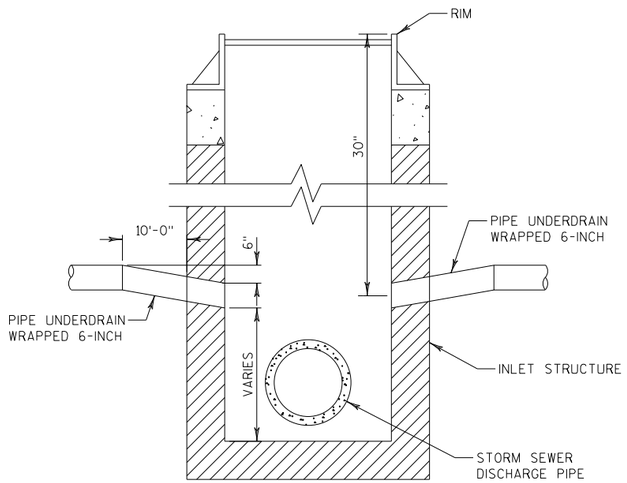
2. SEE TYPICAL SECTIONS, STORM SEWER PLANS, AND MISCELLANEOUS QUANTITIES FOR PIPE UNDERDRAIN LOCATIONS.

3. CONNECTION TO INLET IS INCIDENTAL TO THE PIPE UNDERDRAIN WRAPPED 6-INCH BID ITEM.

4. CORE/DRILL HOLE INTO INLET STRUCTURE AS NEEDED TO ACCOMMODATE PIPE UNDERDRAIN WRAPPED 6-INCH. INSERT AND MOTOR PIPE UNDERDRAIN.



PLAN VIEW



SECTION C-C

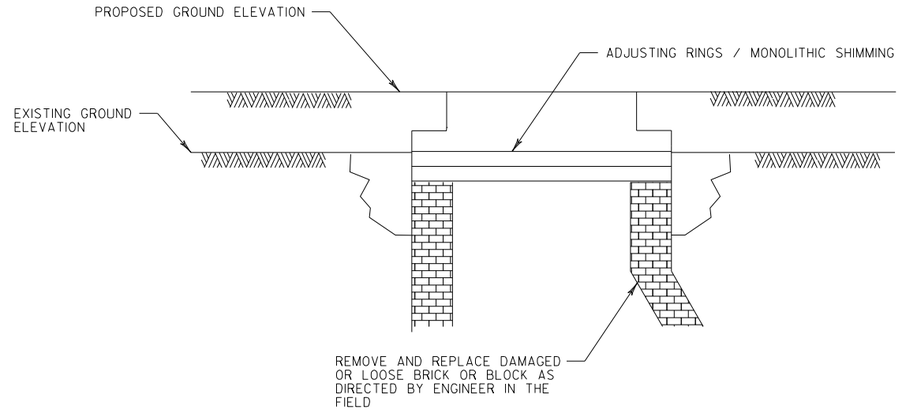
UNDERDRAIN OUTFALL AT INLET

FOR LOCATIONS SEE TYPICAL SECTIONS AND MISCELLANEOUS QUANTITY SHEETS

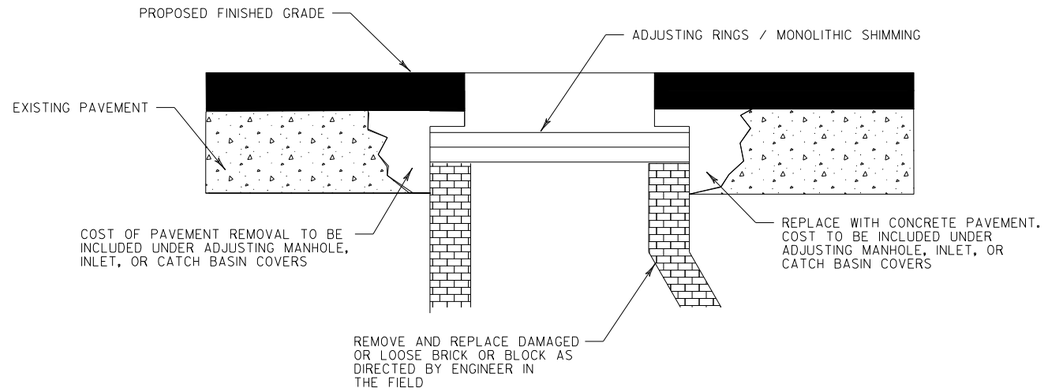
NOTES

1. IF EXISTING PAVEMENT REMOVAL IS NOT SHOWN IN THE REMOVAL PLANS AND A SAWCUT IS REQUIRED THE SAWCUT IS CONSIDERED INCIDENTAL TO ADJUSTING MANHOLE OR INLET COVERS.

2. ADJUST CHIMNEY WITH PROPER SIZE CONCRETE ADJUSTING RINGS (SIZE OF OPENING OF CONCRETE ADJUSTING RING TO BE DETERMINED BY SIZE OF OPENING IN FRAME) OR MONOLITHIC CONCRETE SHIMMING AND REINSTALL EXISTING FRAME AND LID TO FINISHED GRADE. BACKFILL AND OTHER WORK TO BE DONE IN ACCORDANCE WITH ITEM ADJUSTING INLET COVERS.

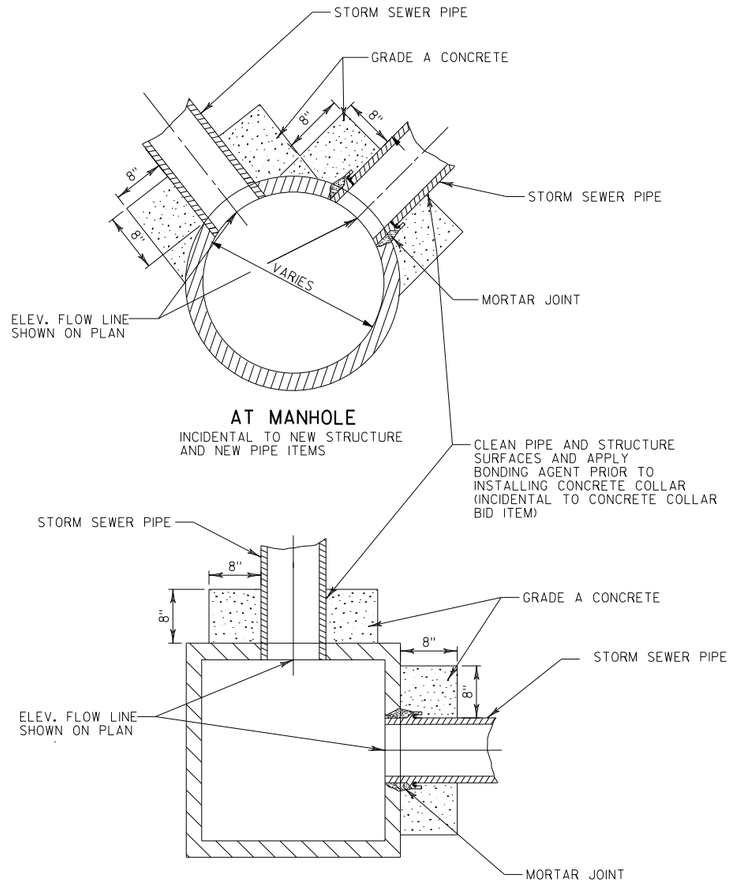


NON-PAVED LOCATION



PAVED LOCATION

ADJUSTING MANHOLE OR INLET COVERS



AT MANHOLE

INCIDENTAL TO NEW STRUCTURE AND NEW PIPE ITEMS

CLEAN PIPE AND STRUCTURE SURFACES AND APPLY BONDING AGENT PRIOR TO INSTALLING CONCRETE COLLAR (INCIDENTAL TO CONCRETE COLLAR BID ITEM)

AT STORM SEWER INLET

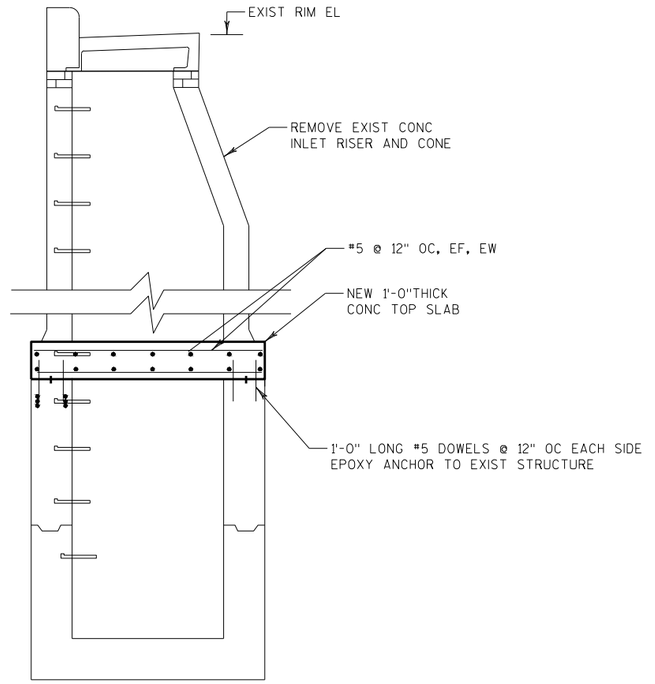
INCIDENTAL TO NEW STRUCTURE AND NEW PIPE ITEMS

NOTE

CONCRETE COLLAR TO BE PAID AS A BID ITEM WHEN CONNECTING AN EXISTING PIPE TO A NEW STRUCTURE.

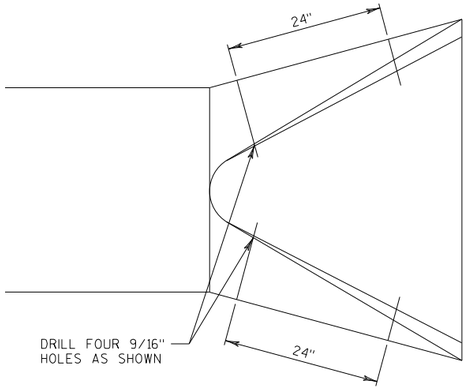
CONCRETE COLLAR DETAIL

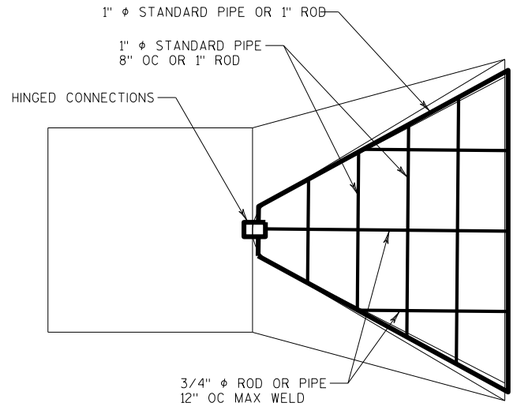
FOR LOCATIONS SEE MISCELLANEOUS QUANTITIES SHEETS



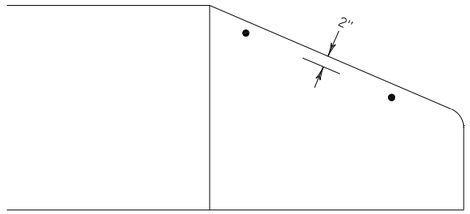
SECTION

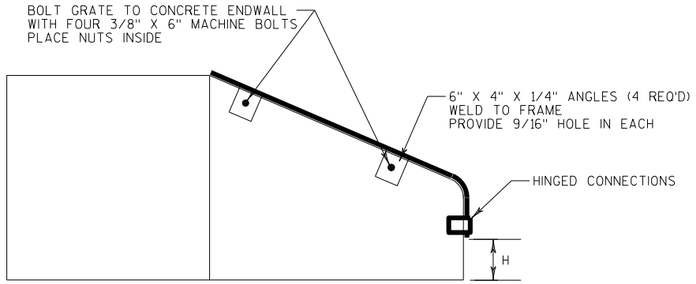
REMOVE AND CAP EXISTING DRAINAGE STRUCTURE





AT EACH PIPE





GRATE BAR SIZES

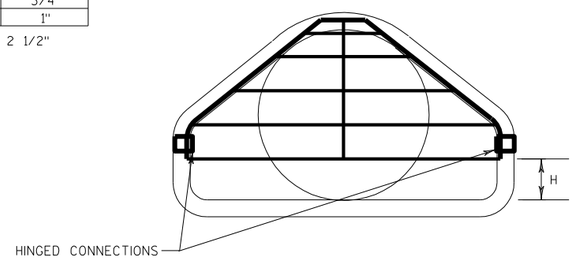
(STANDARD DESIGN)

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

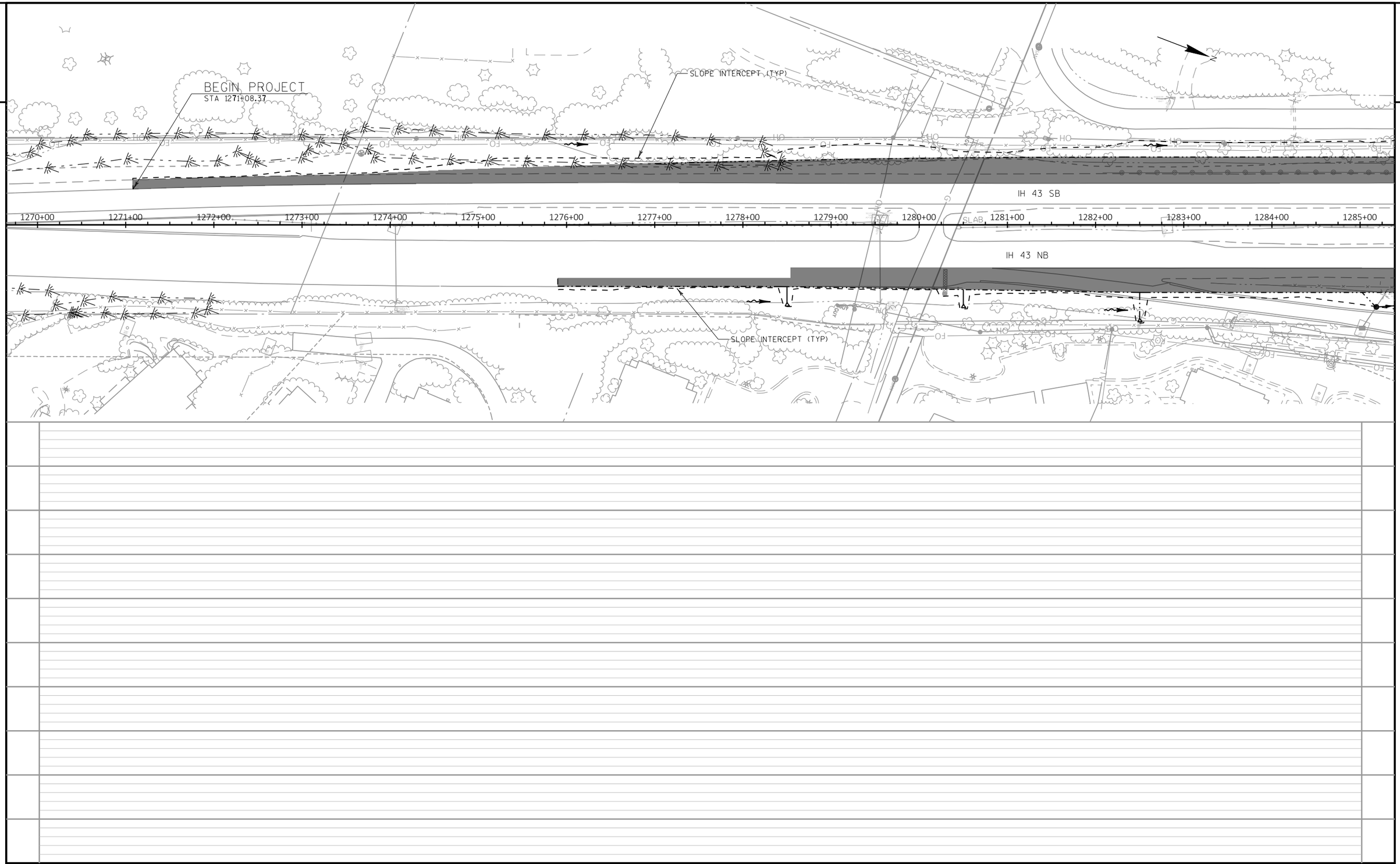
BOLT LENGTH = PIPE WALL THICKNESS + 2 1/2"

GRATE CLEARANCE HEIGHT

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



PIPE GRATE DETAIL

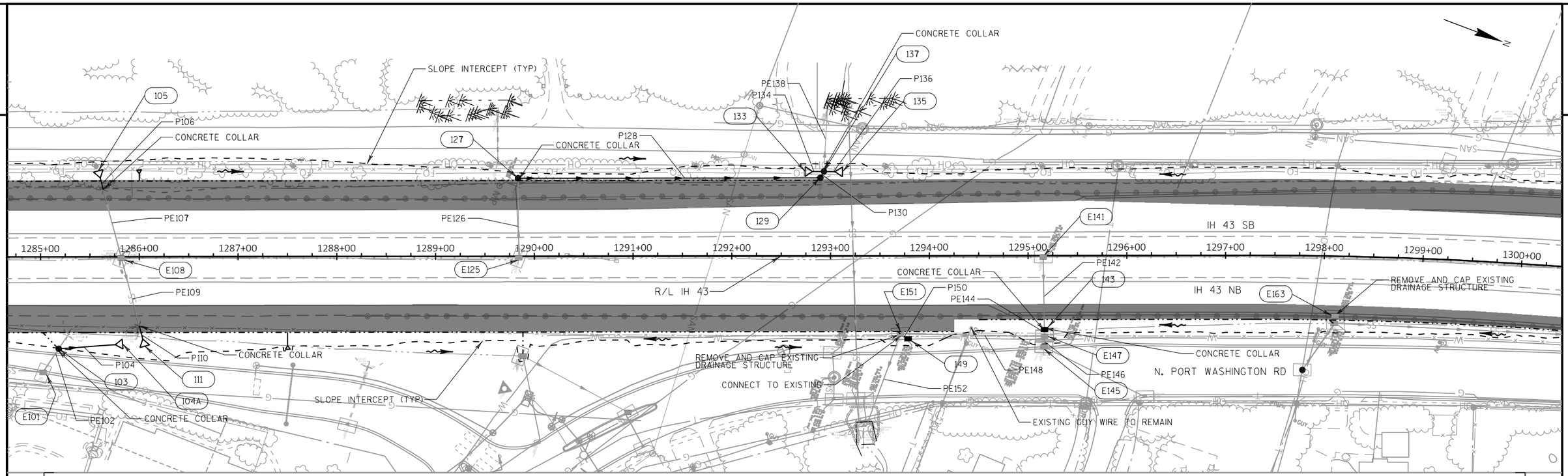


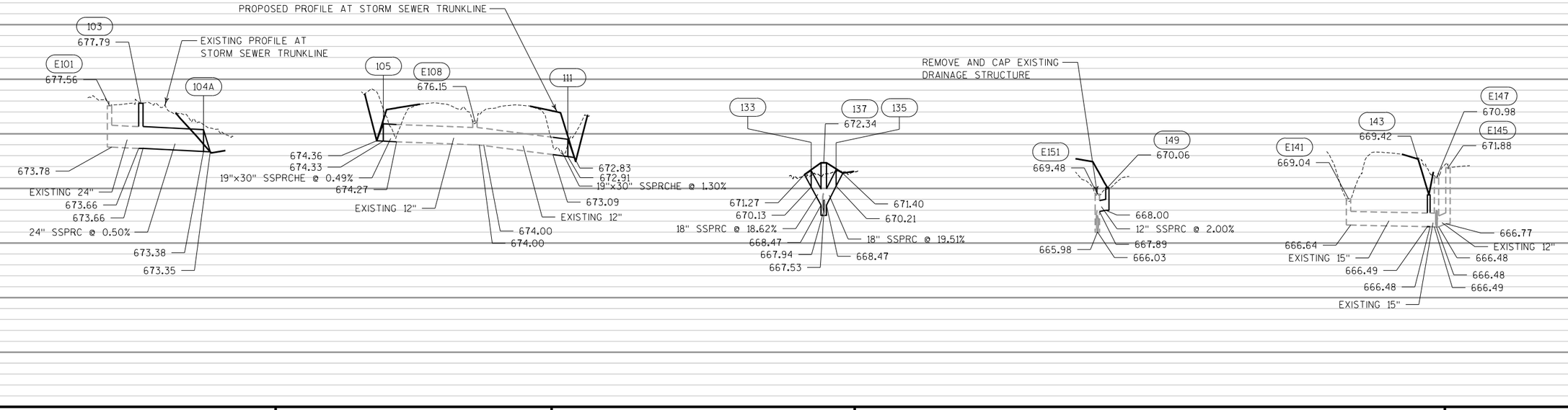
2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN	SHEET 95	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\022502-SS.DWG
LAYOUT NAME - 022502-ss - (1)
PLOT DATE : 3/31/2021 11:41 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

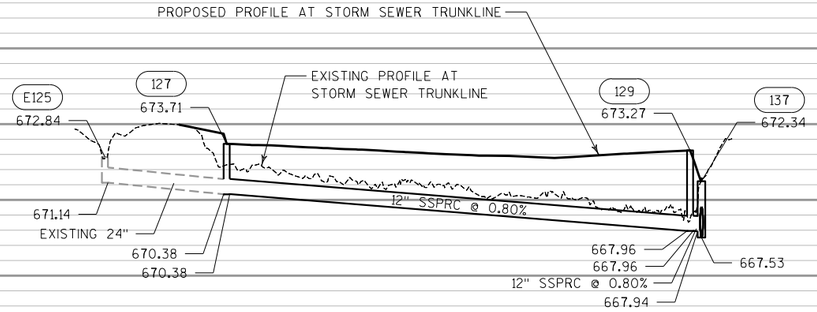




PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN	SHEET 96	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\022502-SS.DWG
LAYOUT NAME - 022502-ss - (2)
PLOT DATE : 3/31/2021 11:42 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

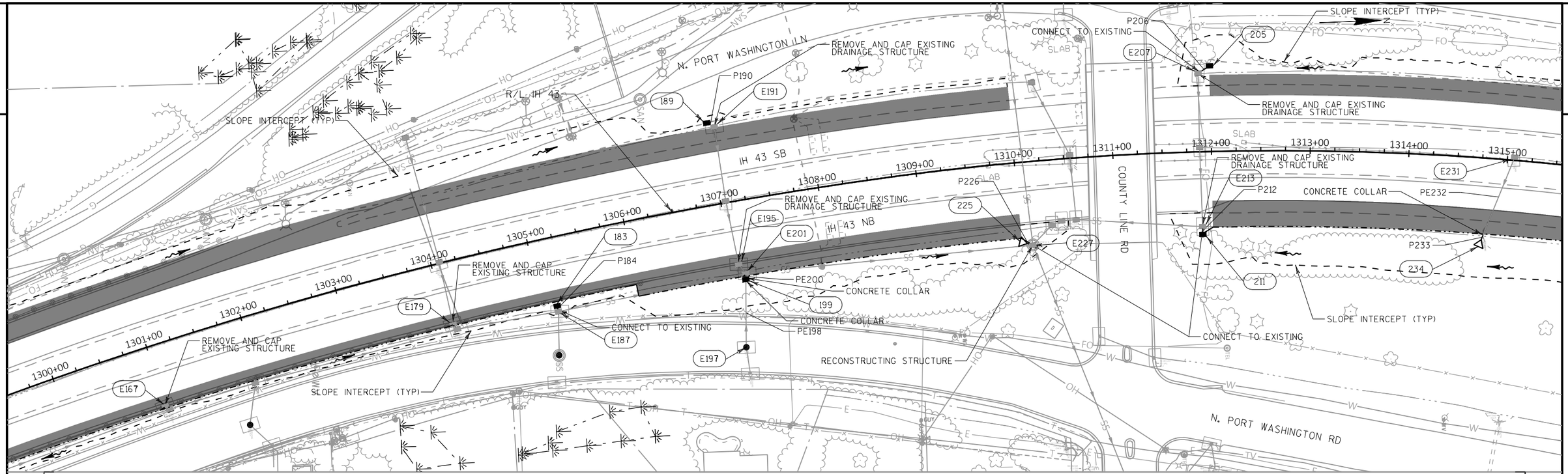
690
685
680
675
670
665
660
655
650

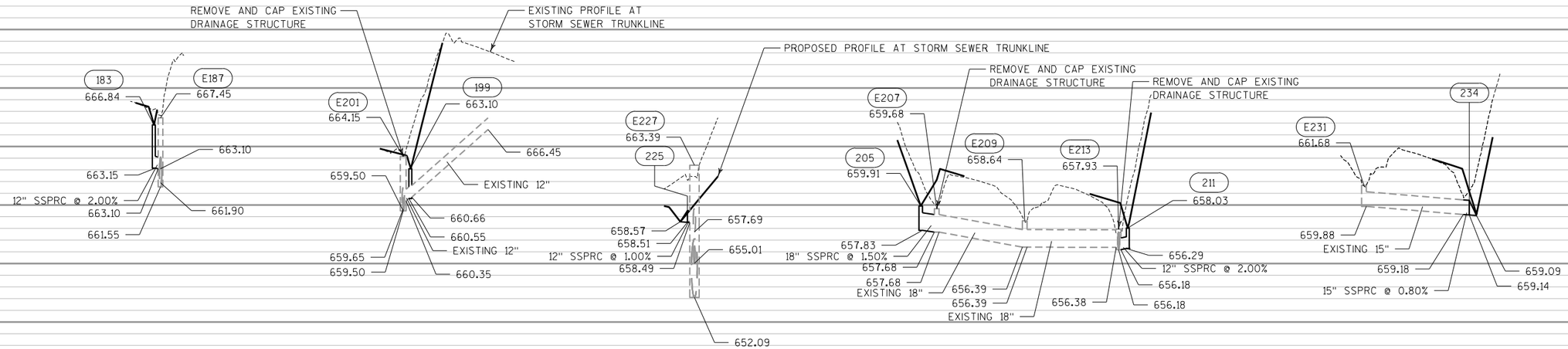


2

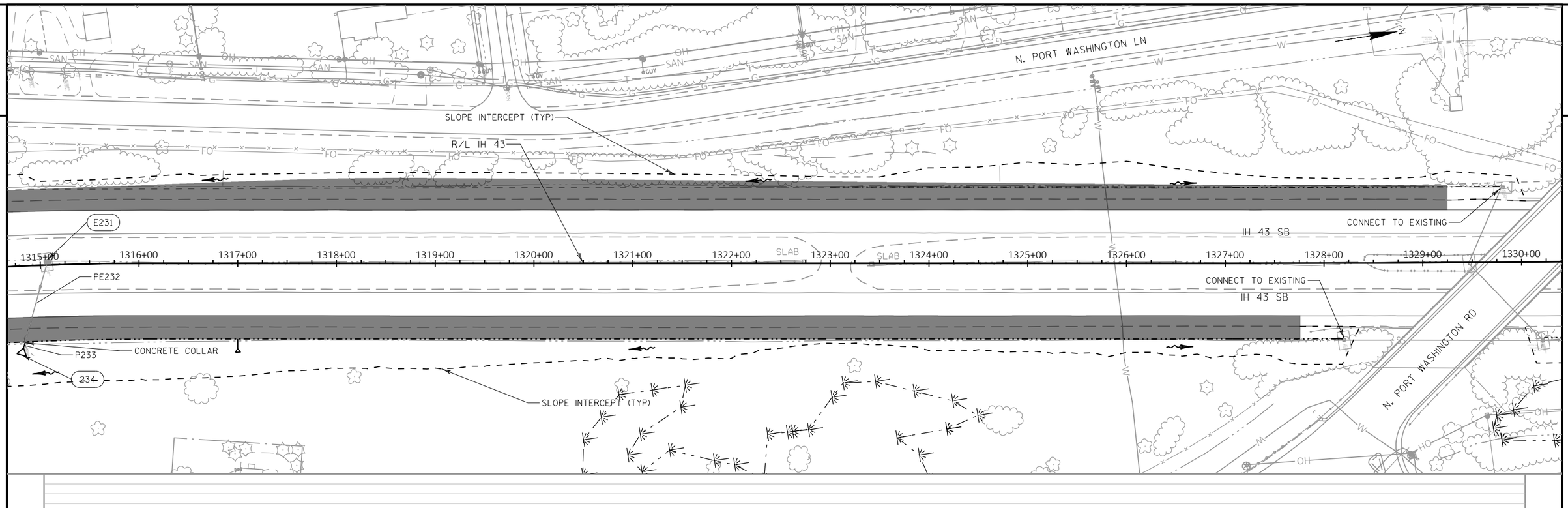
PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN	SHEET 97	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\022502-SS.DWG
LAYOUT NAME - 022502-ss - (2B)
PLOT DATE : 3/31/2021 11:43 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42





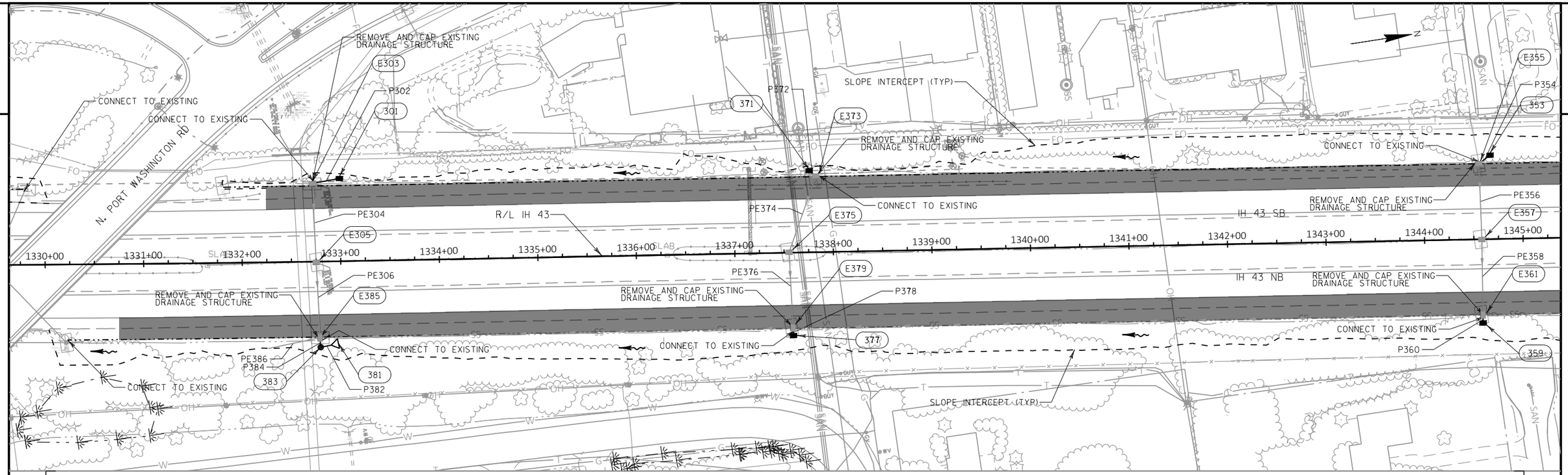
PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN	SHEET 98	E

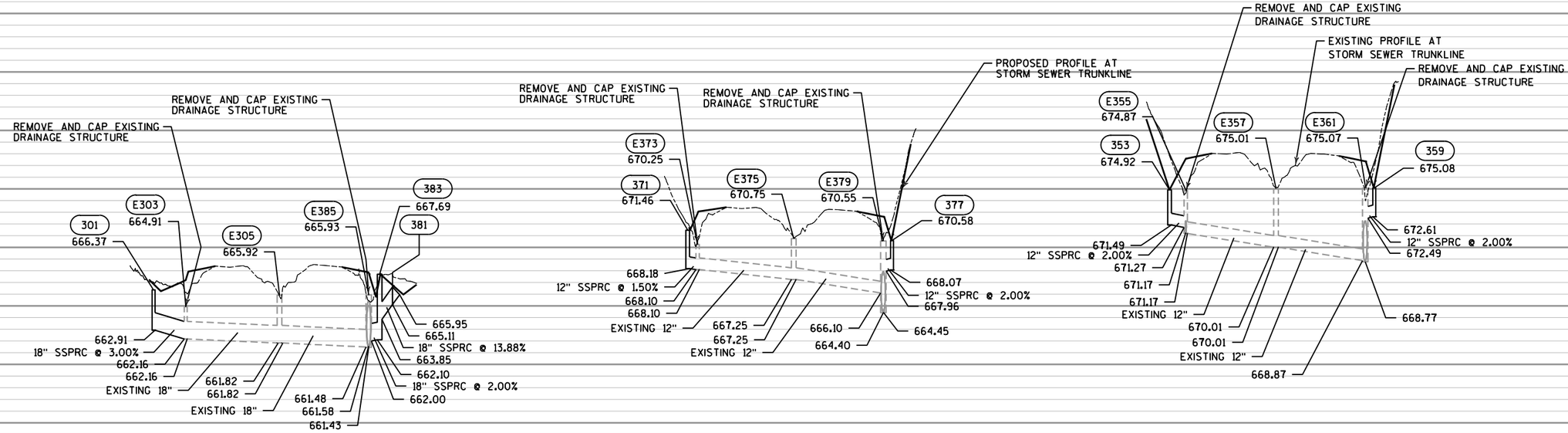


2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN	SHEET 99	E

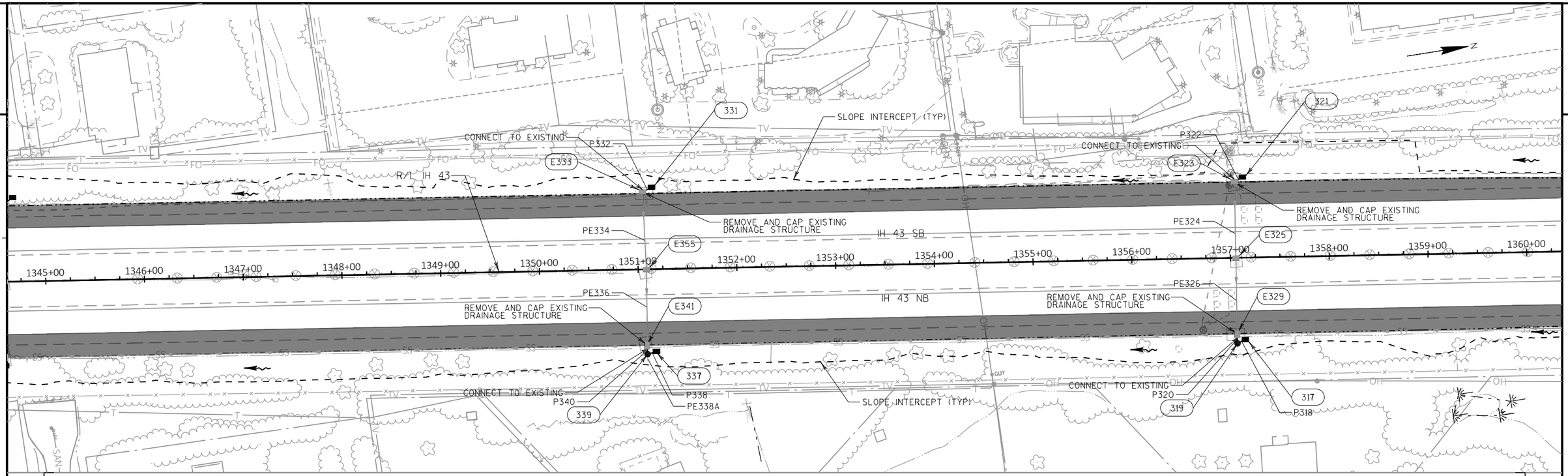
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LAYOUT NAME - 022502-ss - (4)
PLOT DATE : 3/31/2021 11:44 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

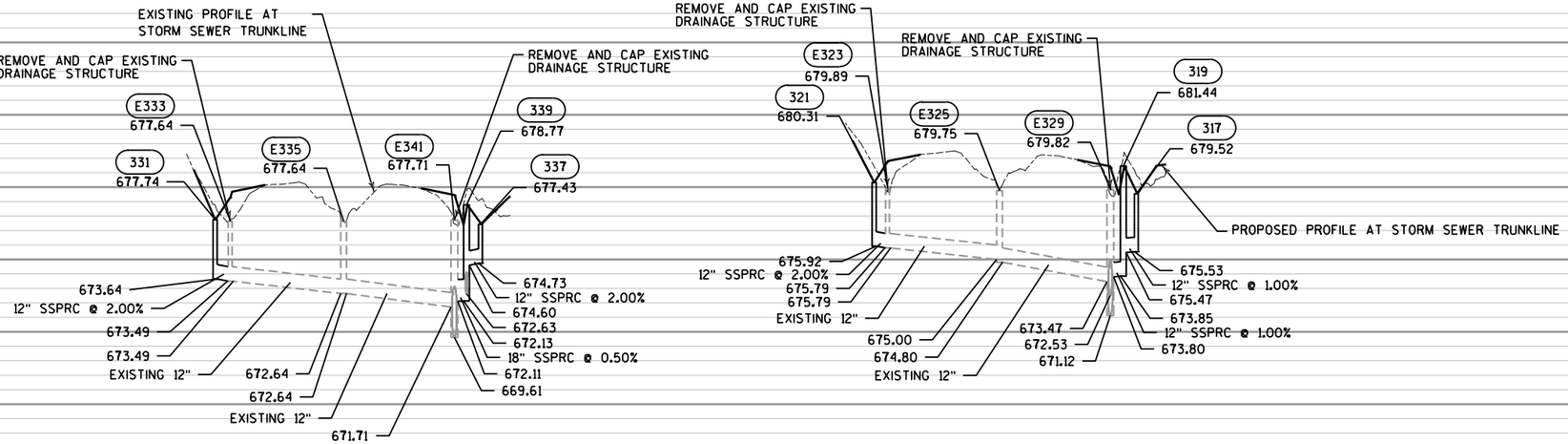




PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN	SHEET 100	E

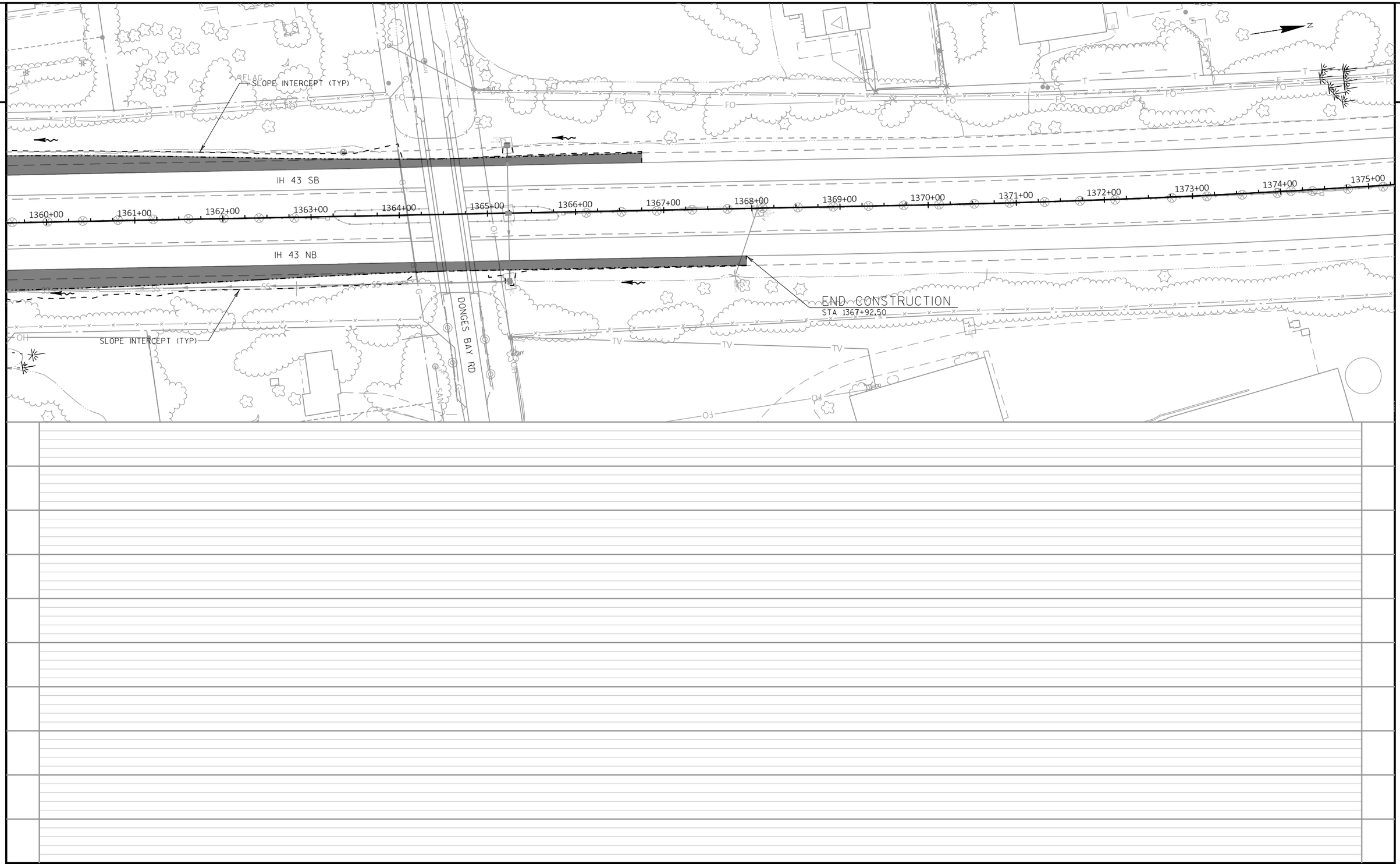
FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\022502-SS.DWG
LAYOUT NAME - 022502-ss - (5)
PLOT DATE : 3/31/2021 11:44 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42





PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN	SHEET 101	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\022502-SS.DWG
LAYOUT NAME - 022502-ss - (6)
PLOT DATE : 3/31/2021 11:45 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	STORM SEWER PLAN	SHEET 102	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\022502-SS.DWG
LAYOUT NAME - 022502-ss - (7)
PLOT DATE : 3/31/2021 11:46 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP. CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION.

SIGNING COORDINATOR	COUNTIES	PHONE #
DENNIS NEWTON	MILWAUKEE, RACINE	414-750-0257
JENNY BUCKETT	KENOSHA, WASHINGTON, OZAUKEE	414-750-2427
CHUCK SALDIVAR	WALWORTH, WAUKESHA	414-750-3682

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

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

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

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

1245+00 1246+00 1247+00 1248+00 1249+00 1250+00

IH-43 SB

IH-43 NB

NO SIGNS
THIS SHEET

SHEET 1 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 103	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023201_PS

PLOT DATE : 1/14/2021 9:38 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

W BROWN DEER RD

W BROWN DEER RD

E(P)

E(P)

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

1251+00 1252+00 1253+00 IH-43 1254+00 1255+00 1256+00

NO SIGNS
THIS SHEET

SHEET 2 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 104	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023202_PS

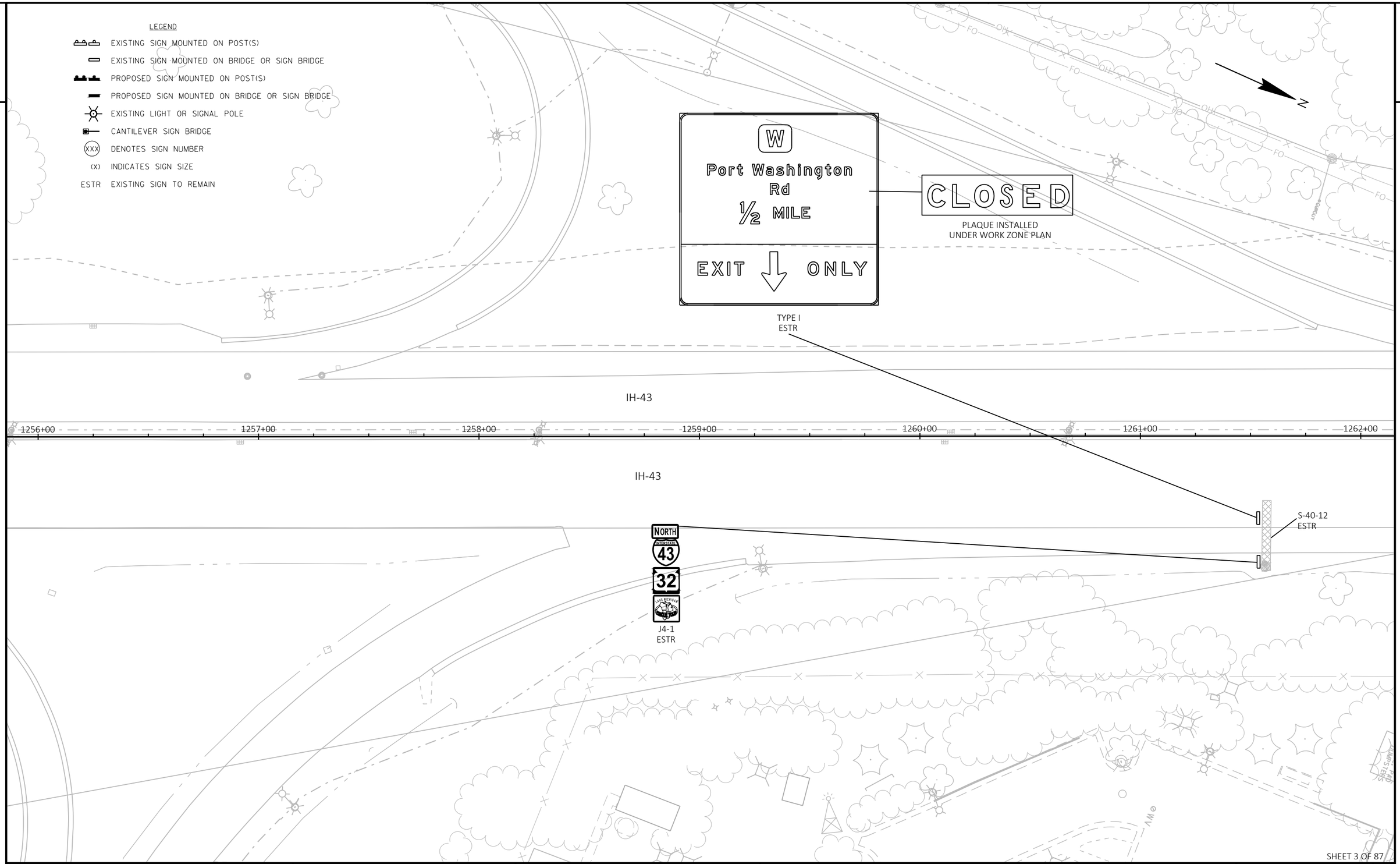
PLOT DATE : 1/14/2021 9:40 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



2

SHEET 3 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 105	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023203_PS

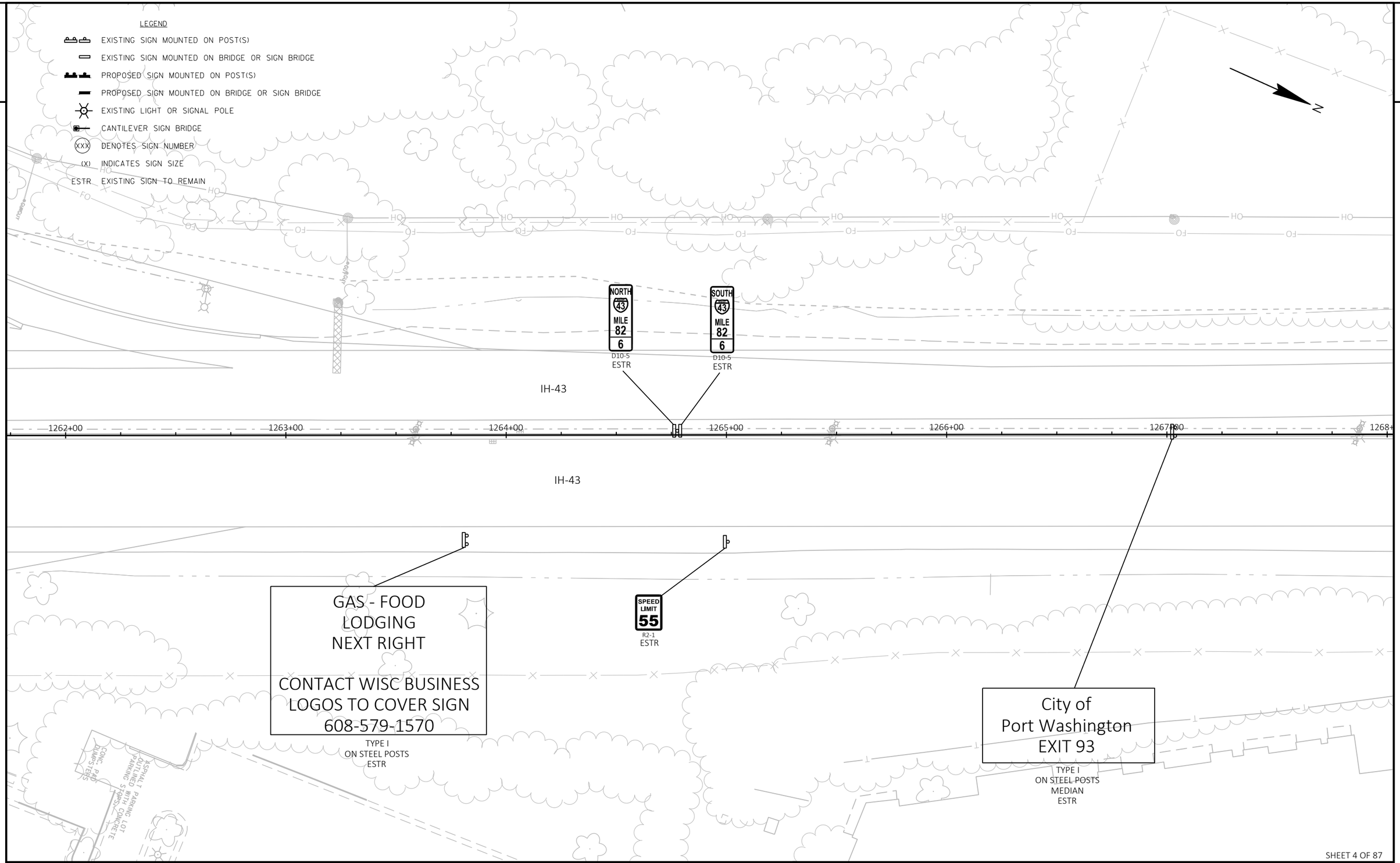
PLOT DATE : 1/14/2021 9:41 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 4 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 106	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023204_PS

PLOT DATE : 1/14/2021 9:42 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

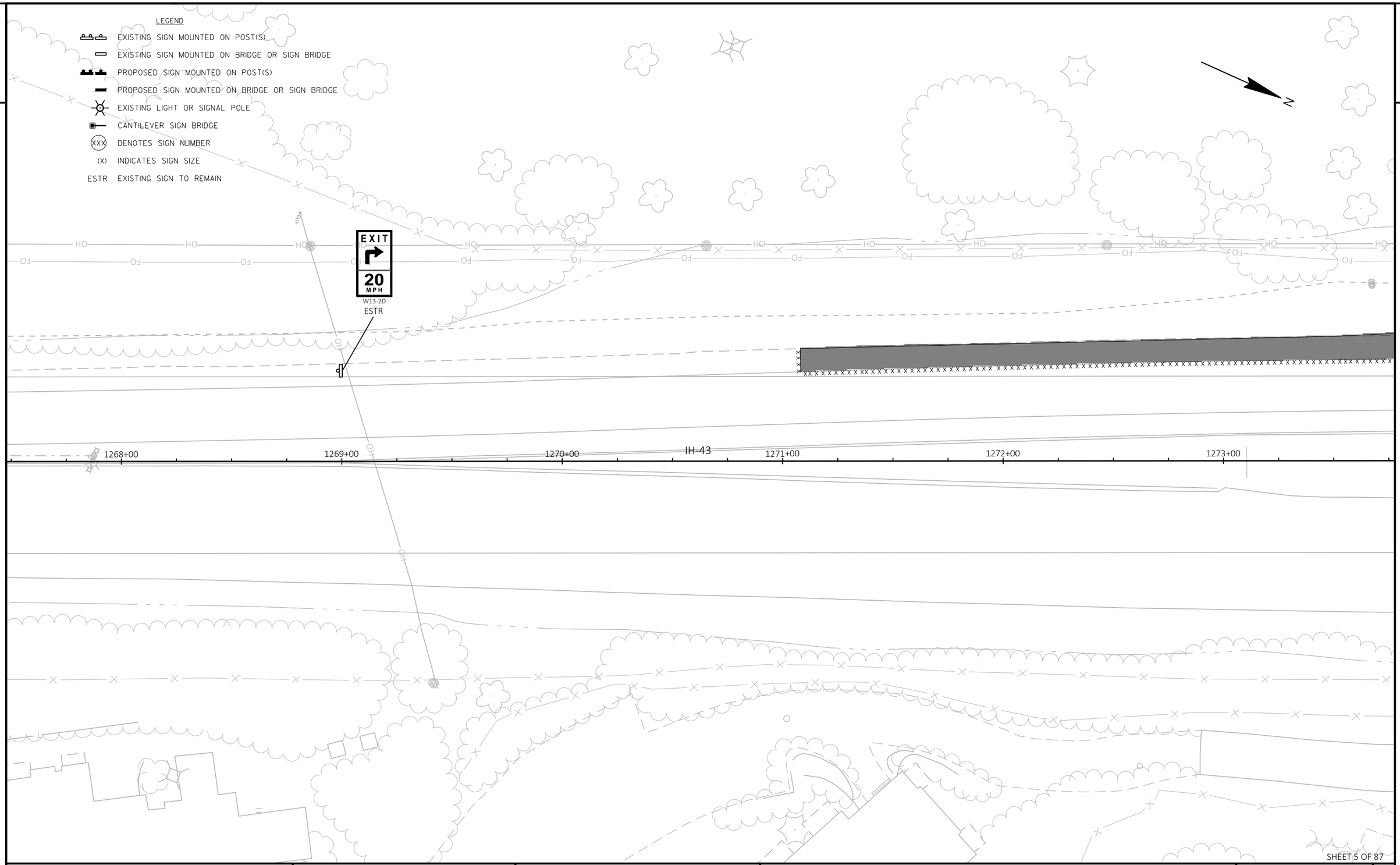
EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN



SHEET 5 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 107	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023205_PS

PLOT DATE : 1/14/2021 9:43 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

1
REMOVE
RIDESHARE INFORMATION www.rideshare.wi.gov
D12-2B

2
REMOVE
SLOWER TRAFFIC KEEP RIGHT
R4-3

3
REMOVE
PARK & RIDE
CRASH INVESTIGATION SITE
EXIT 82B
TYPE I
SEE FMS PLAN
FOR TEMPORARY SIGN

1274+00 1275+00 1276+00 IH-43 1277+00 1278+00 1279+00

NORTH 43 MILE 82 8
D10-5
ESTR

SOUTH 43 MILE 82 8
D10-5
ESTR

SHEET 6 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 108	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023206_PS

PLOT DATE : 1/14/2021 9:44 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

R3-4B
ESTR

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES

1279+00 1280+00 1281+00 1282+00 1283+00 1284+00 1285

IH-43

SLAB

SIGN BRIDGE
S-40-16
REMOVE

4

EXIT 83

W
County Line Rd
Port Washington Rd
EXIT ONLY

REMOVE
TYPE I

REMOVE

EXIT
83

5

E5-1A

W5-54 W5-54 REMOVE

SHEET 7 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 109	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023207_PS

PLOT DATE : 1/14/2021 9:46 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

40

EXIT 82 B-A

SOUTH 32

WEST 100

Brown Deer Rd

½ MILE

REMOVE
TYPE I
SEE FMS PLAN
FOR TEMPORARY SIGN

SOUTH 43

MILE 83 .0

D10-5

ESTR

1285+00 1286+00 1287+00 IH-43 1288+00 1289+00 1290+00

NORTH 83

MILE 83 .0

D10-5

ESTR

REMOVE

SLOWER TRAFFIC KEEP RIGHT

6

R4-3

MILE 83

D10-1

REMOVE
PART
OF #6

SHEET 8 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 110	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023208_PS

PLOT DATE : 1/19/2021 7:37 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

GAS - FOOD ATTRACTIONS (SIS)

TYPE I
CONTACT WISC
BUSINESS LOGOS
TO REMOVE SIGN
608-579-1570
SEE FMS PLAN
FOR TEMPORARY SIGN

N PHEASANT LN

9
EMERGENCY STOPPING ONLY
R8-7
REMOVE

7
EMERGENCY STOPPING ONLY
R8-7
REMOVE

8
TRAVEL INFO CALL 511
REMOVE

CTH W/ N PORT WASHINGTON RD

1291+00 1292+00 1293+00 IH-43 1294+00 1295+00 1296+00

SHEET 9 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 111	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023209_PS

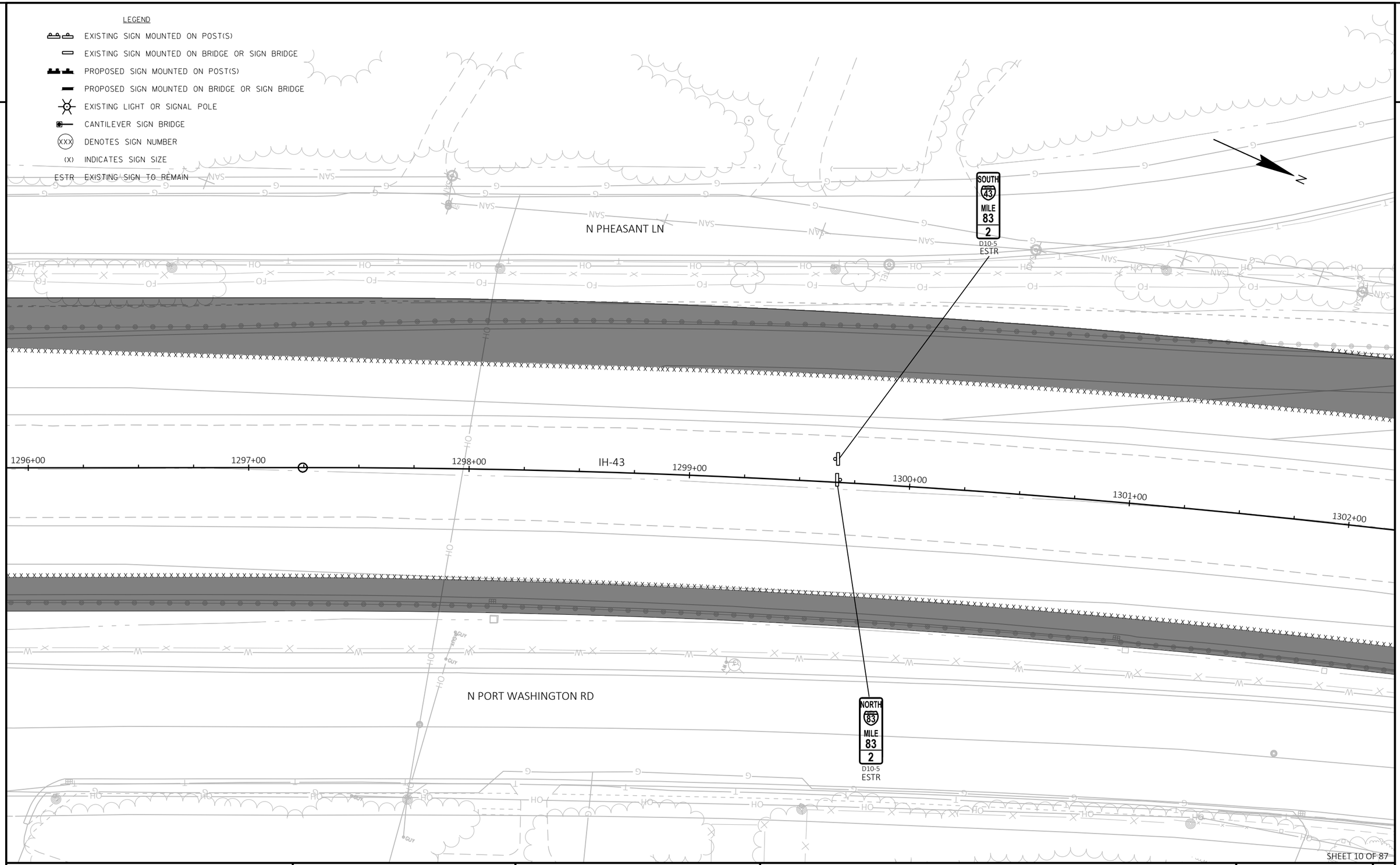
PLOT DATE : 1/14/2021 9:48 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



2

SHEET 10 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 112	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023210_PS

PLOT DATE : 1/14/2021 9:49 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

RAMP SIGN
MOVE
10
W4-2L

11
TRAVEL
INFO
CALL 511
MOVE

N PHEASANT LN

IH-43

1302+00 1303+00 1304+00 1305+00 1306+00 1307+00

N PORT WASHINGTON RD

2

SHEET 11 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 113	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023211_PS

PLOT DATE : 1/14/2021 9:51 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

15
VILLAGE OF RIVER HILLS
I2-3A
MOVE

14
County Line Rd
M1-94
REMOVE

MILWAUKEE CO 9600 NORTH
I2-2 (MOD)
ON BRIDGE
ESTR

13
SPEED LIMIT 55
R2-1
MOVE

SOUTH 43 MILE 83 4
D10-5
ESTR

NORTH 43 MILE 83 4
D10-5
ESTR

12
County Line Rd
M1-94
REMOVE

OZAUKEE CO 9600 NORTH
I2-2 (MOD)
ON BRIDGE
ESTR

SPEED LIMIT 55
R2-1
ESTR

N PORT WASHINGTON LN
N PORT WASHINGTON RD
COUNTY LINE RD
IH-43
SLAB
1308+00
1309+00
1310+00
1311+00
1312+00
1313+00

SHEET 12 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 114	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023212_PS

PLOT DATE : 1/14/2021 9:52 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N PORT WASHINGTON LN

19
W4-3R
MOVE

FOOD
(SIS)
TYPE I
MOVE
CONTACT WISC
BUSINESS LOGOS
608-579-1570 TO
REMOVE SIGN

SEE FMS PLAN
FOR TEMPORARY SIGN

N

IH-43

1313+00 1314+00 1315+00 1316+00 1317+00 1318+00

16
I55-56
REMOVE

17
SPEED LIMIT 70
R2-1
MOVE

18
MOVE OVER OR SLOW DOWN FOR STOPPED VEHICLES WITH FLASHING LIGHTS
R5-60
TYPE II
MOVE

SHEET 13 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 115	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023213_PS

PLOT DATE : 3/29/2021 11:51 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N PORT WASHINGTON LN

IH-43

SOUTH 43 MILE 83 6
D10-5
ESTR

20 SPEED LIMIT 55
W3-5
MOVE

NORTH 43 MILE 83 6
D10-5
ESTR

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES
R3-4B
ESTR

SPEED LIMIT 55
W3-5
ESTR

SLAB

SLAB

3+00 1319+00 1320+00 1321+00 1322+00 1323+00 1324+00

N

2

SHEET 14 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 116	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023214_PS

PLOT DATE : 3/29/2021 11:52 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N PORT WASHINGTON LN

LODGING
(SIS)

TYPE I
REMOVE
CONTACT WISC
BUSINESS LOGOS
608-579-1570

SEE FMS PLAN
FOR TEMPORARY SIGN

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

AB

IH-43

1324+00 1325+00 1326+00 1327+00 1328+00 1329+00

FOOD
(SIS)

TYPE I
ON STEEL POSTS
TO REMOVE
CONTACT WISC
BUSINESS LOGOS
608-579-1570 TO
REMOVE SIGN

SEE FMS PLAN
FOR TEMPORARY SIGN

21
W5-52R
REMOVE

COUNTY HWY W

22
County W
M1-94
MOVE

SHEET 15 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 117	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023215_PS

PLOT DATE : 3/29/2021 11:53 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

24
W5-52R
REMOVE

COUNTY HWY W

23
County W
M1-94
REMOVE

SOUTH
43
MILE
83
8
D10-5
ESTR

N

SLAB

1330+00 1331+00 1332+00 IH-43 1333+00 1334+00 1335+00

NORTH
43
MILE
83
8
D10-5
ESTR

SHEET 16 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 118	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023216_PS

PLOT DATE : 3/29/2021 11:54 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

S-45-401
DMS
REMOVE

N

SLAB

1335+00 1336+00 1337+00 IH-43 1338+00 1339+00 1340+00

25

HOSPITAL
EXIT 85

TYPE I
ON STEEL POSTS
MOVE TO
3 WOOD POSTS

SHEET 17 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 119	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023217_PS

PLOT DATE : 1/14/2021 9:58 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

27

OVERSIZE LOADS
RESTRICTED
BEYOND NEXT EXIT

REMOVE
TYPE I
ON STEEL POSTS

SEE FMS PLAN
FOR TEMPORARY
SIGNS

SOUTH
43
MILE
84
0

D10-5
ESTR

NORTH
43
MILE
84
0

D10-5
ESTR

1341+00 1342+00 IH-43 1343+00 1344+00 1345+00 1346+00

26

MEQUON
NEXT 2 EXITS

REMOVE
TYPE I
ON STEEL POSTS

SEE FMS PLAN
FOR TEMPORARY
SIGNS

SHEET 18 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 120	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023218_PS

PLOT DATE : 1/14/2021 9:59 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

NO SIGNS THIS SHEET

N

1346+00 1347+00 1348+00 IH-43 1349+00 1350+00 1351+00 1352+00

SHEET 19 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 121	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023219_PS

PLOT DATE : 1/14/2021 10:00 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

29

RIDESHARE INFORMATION
www.rideshare.wi.gov

D12-2B
REMOVE

SOUTH 43 MILE 84 2

D10-5
ESTR

IH-43

1352+00 1353+00 1354+00 1355+00 1356+00 1357+00 1358+

NORTH 43 MILE 84 2

D10-5
ESTR

TYPE I
REMOVE

28

SEE FMS PLAN FOR TEMPORARY SIGN

EXIT 85
SOUTH WEST
57 167
Mequon Rd
1 MILE

N

SHEET 20 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 122 E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023220_PS

PLOT DATE : 1/19/2021 7:41 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

FLAG

FO

IH-43

1358+00 1359+00 1360+00 1361+00 1362+00 1363+00

IH-43

OH

30

Concordia Univ.
Milwaukee Area
Tech College
North Campus
Exit 85

TYPE I
REMOVE

SEE FMS PLAN
FOR TEMPORARY
SIGNS

SHEET 21 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 123	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023221_PS

PLOT DATE : 1/14/2021 10:03 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

DONGES BAY RD

33
ADOPT A HIGHWAY
I55-56
REMOVE

34
Dongas Bay Rd
M1-94
REMOVE

SOUTH
43
MILE
84
4
D10-5
ESTR

IH-43

1364+00 1365+00 1366+00 1367+00 1368+00 1369+00

NORTH
43
MILE
84
4
D10-5
ESTR

32
ADOPT A HIGHWAY
I55-56
REMOVE

DONGES BAY RD

31
Dongas Bay Rd
M1-94
REMOVE

SHEET 22 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 124	E

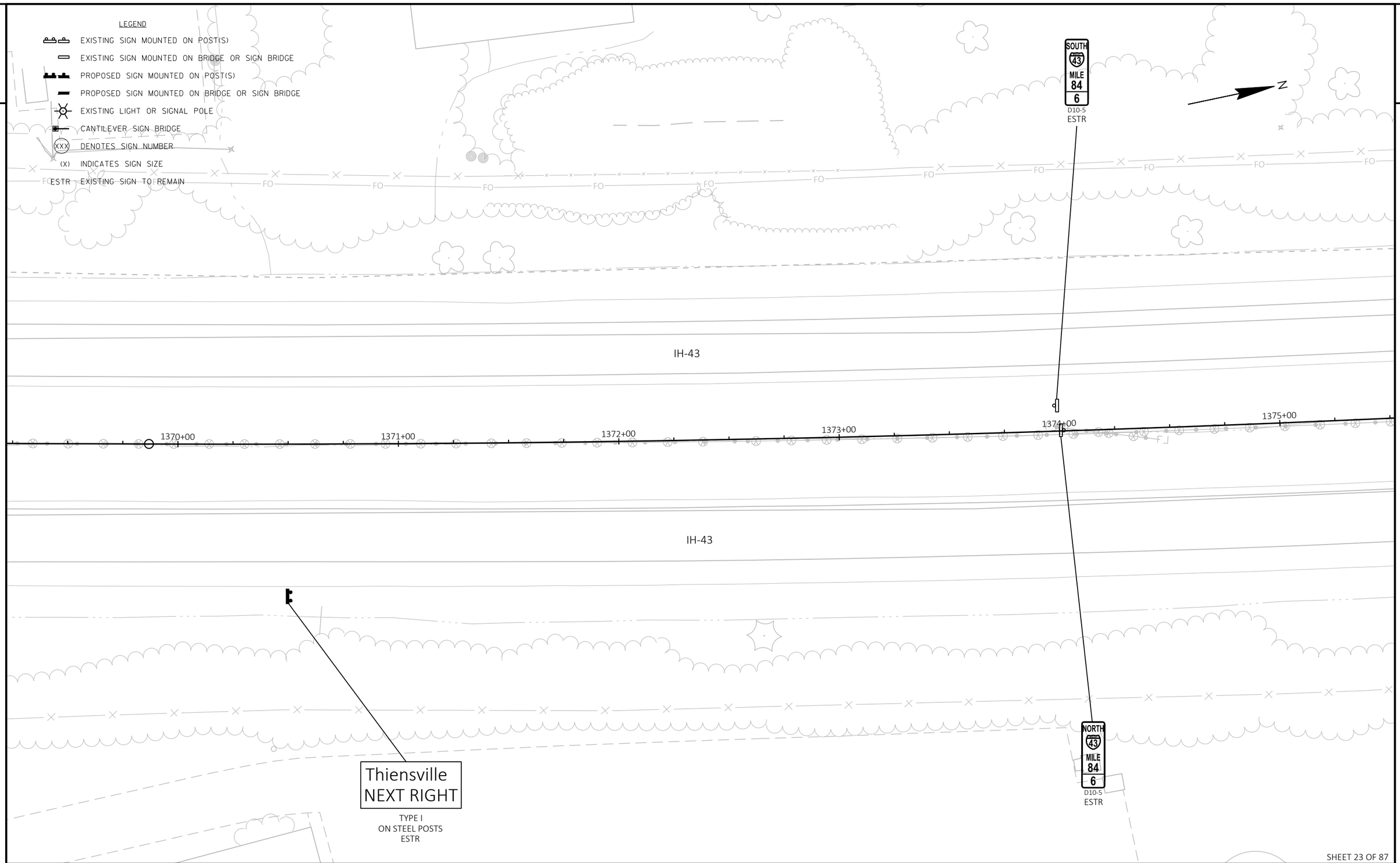
FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023222_PS

PLOT DATE : 1/14/2021 10:04 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



SHEET 23 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 125 E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023223_PS

PLOT DATE : 1/14/2021 10:05 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

STATION BREAK →

1375+00 1376+00 1377+00 IH-43 1378+00 1379+00 1380+00 1381+00

FOOD
(SIS)

TYPE I
ON STEEL POSTS
ESTR
CONTACT WISC
BUSINESS LOGOS
608-579-1570 IF
REQUIRES MOVING

SHEET 24 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 126	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023224_PS

PLOT DATE : 1/19/2021 7:43 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

Thiensville
NEXT RIGHT

TYPE I
ON STEEL POSTS
STA 1462+00
ESTR

STATION BREAK

1464+00 1465+00 1466+00 IH-43 1467+00 1468+00 1469+00

2

SHEET 25 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 127	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023225_PS

PLOT DATE : 1/14/2021 10:07 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

FOOD
(SIS)

TYPE I
ON STEEL POSTS
ESTR
CONTACT WISC
BUSINESS LOGOS
608-579-1570 IF
REQUIRES MOVING

N

SOUTH
43
MILE
87
0

D10-5
ESTR

1470+00 1471+00 1472+00 IH-43 1473+00 1474+00 1475+00

NORTH
43
MILE
87
0

D10-5
ESTR

ADOPT A HIGHWAY

I55-56
ESTR

UNION PACIFIC RAILROAD

SHEET 26 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 128	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023226_PS

PLOT DATE : 1/14/2021 10:09 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

NO SIGNS THIS SHEET

N

1476+00 1477+00 1478+00 IH-43 1479+00 1480+00 1481+00

STA BACK = 1479+99.00
STA AHEAD = 1480+00.00

SHEET 27 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 129 E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023227_PS

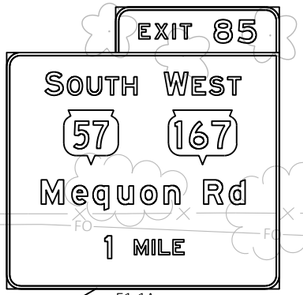
PLOT DATE : 1/14/2021 10:10 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



E1-1A
ESTR

N

IH-43

00 1482+00 1483+00 1484+00 1485+00 1486+00 1487+00

IH-43

2

SHEET 28 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 130	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023228_PS

PLOT DATE : 1/14/2021 10:11 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

NO SIGNS
THIS SHEET

N

FO

1487+00 1488+00 1489+00 IH-43 1490+00 1491+00 1492+00

SHEET 29 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 131 E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023229_PS

PLOT DATE : 1/14/2021 10:12 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

NO SIGNS
THIS SHEET

N

1493+00 1494+00 1495+00 IH-43 1496+00 1497+00 1498+00

SHEET 30 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 132	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023230_PS

PLOT DATE : 1/14/2021 10:13 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

1499+00 1500+00 1501+00 IH-43 1502+00 1503+00 1504+00

NO SIGNS
THIS SHEET

SHEET 31 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 133	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023231_PS

PLOT DATE : 1/14/2021 10:15 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

FO

1504+00 1505+00 1506+00 1507+00 IH-43 1508+00 1509+00 1510+00

NO SIGNS
THIS SHEET

2

SHEET 32 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 134	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023232_PS

PLOT DATE : 1/14/2021 10:16 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

NO SIGNS
THIS SHEET

N

1510+00 1511+00 1512+00 IH-43 1513+00 1514+00 1515+00 151

SHEET 33 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 135	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023233_PS

PLOT DATE : 1/14/2021 10:17 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

IH-43

1516+00 1517+00 1518+00 1519+00 1520+00 1521+00

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

NO SIGNS THIS SHEET

UNION PACIFIC RAILROAD

SHEET 34 OF 87

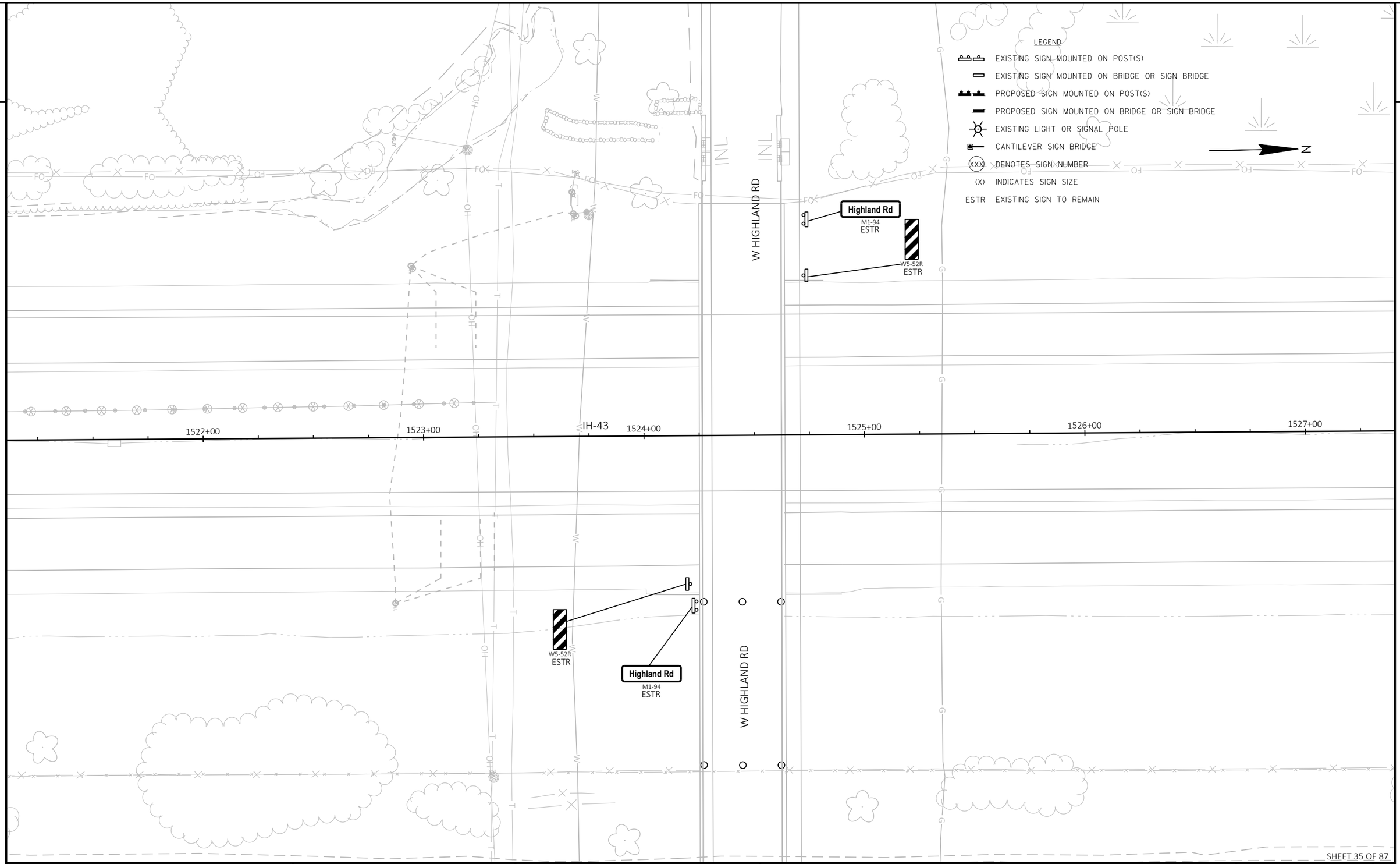
PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 136	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023234_PS

PLOT DATE : 1/14/2021 10:18 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



W HIGHLAND RD
W5-52R
ESTR
Highland Rd
M1-94
ESTR

SHEET 35 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 137	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023235_PS

PLOT DATE : 1/14/2021 10:19 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

FO

SAN

1528+00 1529+00 1530+00 IH-43 1531+00 1532+00 1533+00

NO SIGNS
THIS SHEET

SHEET 36 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 138	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023236_PS

PLOT DATE : 1/14/2021 10:21 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

FO

SAN

IH-43

1533+00 1534+00 1535+00 1536+00 1537+00 1538+00 1539+0

INL

IH-43

NO SIGNS
THIS SHEET

SHEET 37 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 139	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023237_PS

PLOT DATE : 1/14/2021 10:22 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

NO SIGNS
THIS SHEET

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

1539+00 1540+00 1541+00 IH-43 1542+00 1543+00 1544+00

SHEET 38 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 140	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023238_PS

PLOT DATE : 1/14/2021 10:23 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

NO SIGNS
THIS SHEET

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

0 1545+00 1546+00 1547+00 IH-43 1548+00 1549+00 1550+00

SHEET 39 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 141	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023239_PS

PLOT DATE : 1/14/2021 10:24 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

IH-43

1550+00 1551+00 1552+00 1553+00 1554+00 1555+00

IH-43

NO SIGNS
THIS SHEET

SHEET 40 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 142	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023201_PS_18.DWG
LAYOUT NAME - 023240_PS

PLOT DATE : 1/14/2021 10:25 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

2

IH-43

1555+00 1556+00 1557+00 1558+00 1559+00 1560+00

NO SIGNS
THIS SHEET

SHEET 41 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 143	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023241_PS

PLOT DATE : 1/14/2021 10:27 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

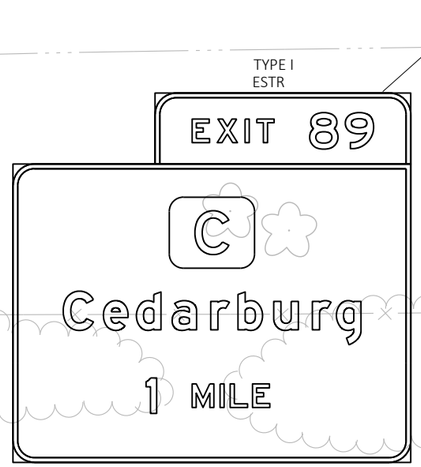
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

1561+00 1562+00 1563+00 IH-43 1564+00 1565+00 1566+00

TYPE I
ESTR



SHEET 42 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 144	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023242_PS

PLOT DATE : 1/14/2021 10:28 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

IH-43

1567+00 1568+00 1569+00 1570+00 1571+00 1572+00

NO SIGNS
THIS SHEET

SHEET 43 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 145	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023243_PS

PLOT DATE : 1/14/2021 10:29 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

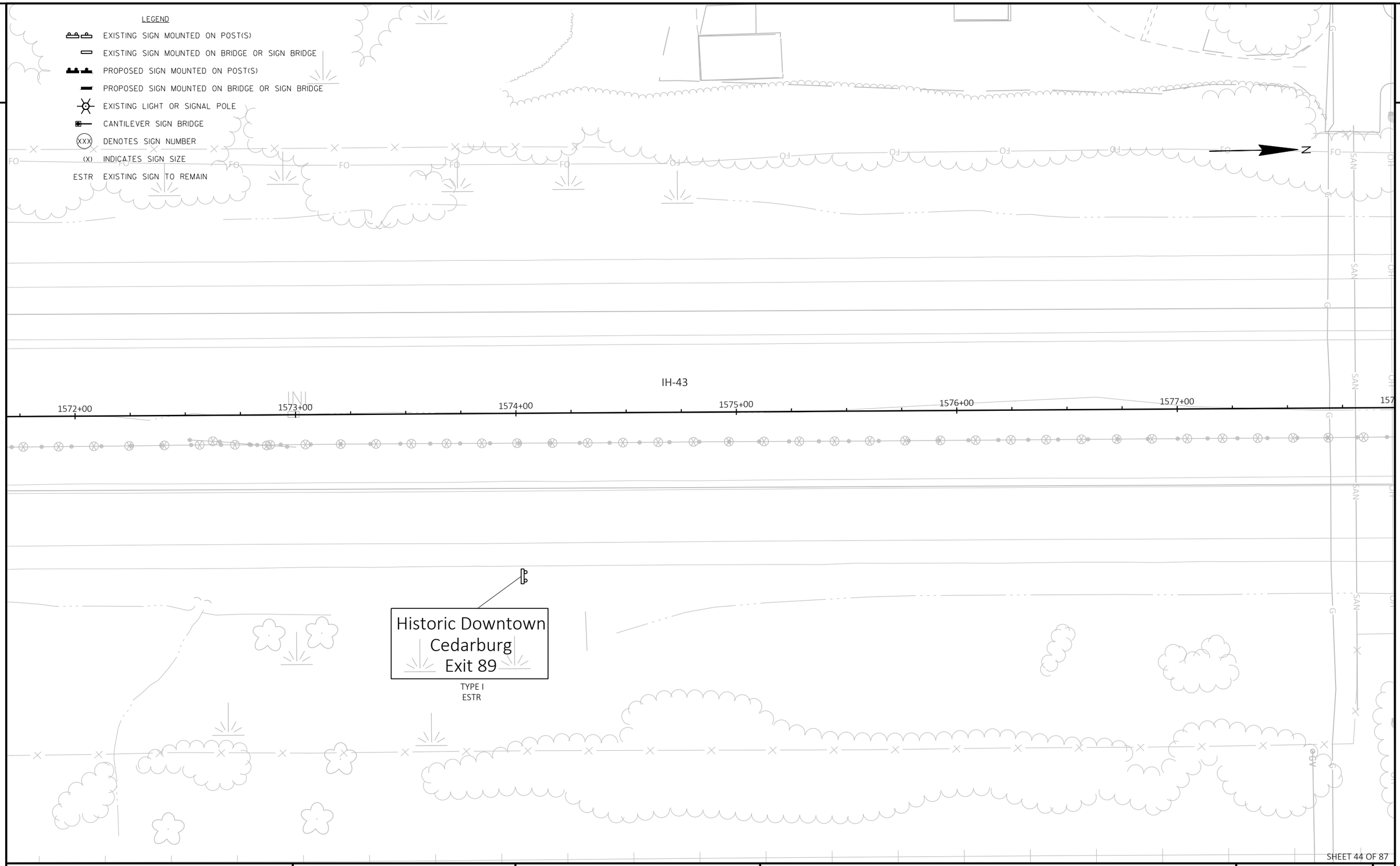
EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN



2

SHEET 44 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 146	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023244_PS

PLOT DATE : 1/14/2021 10:30 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

167 3
Milwaukee 16
D1-2
TYPE I
ESTR

IH-43

1578+00 1579+00 1580+00 1581+00 1582+00 1583+00

Pioneer Rd
Park & Ride
Exit 89
TYPE I
ESTR

SHEET 45 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 147	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023245_PS

PLOT DATE : 1/14/2021 10:32 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

NO SIGNS
THIS SHEET

IH-43

1584+00 1585+00 1586+00 1587+00 1588+00 1589+00

SHEET 46 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 148	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023246_PS

PLOT DATE : 1/14/2021 10:33 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

IH-43

1590+00 1591+00 1592+00 1593+00 1594+00 1595+00

LODGING ATTRACTIONS (SIS)

TYPE I
ESTR

UNION PACIFIC RAILROAD

SHEET 47 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 149	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023247_PS

PLOT DATE : 1/14/2021 10:34 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

NO SIGNS
THIS SHEET

N

1595+00 1596+00 1597+00 IH-43 1598+00 1599+00 1600+00

SHEET 48 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 150	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023248_PS

PLOT DATE : 1/14/2021 10:35 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

EMERGENCY STOPPING ONLY
R8-7
TYPE II
ESTR

N

IH-43

1601+00

1602+00

1603+00

1604+00

1605+00

1606+00

SHEET 49 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 151	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023249_PS

PLOT DATE : 1/14/2021 10:36 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

SPEED LIMIT 70
R2-1
ESTR

+00 1607+00 1608+00 1609+00 IH-43 1610+00 1611+00 1612+00

GAS
FOOD
(SIS)

TYPE I
ESTR
CONTACT WISC
BUSINESS LOGOS
608-579-1570 IF
MOVE NEEDED

SHEET 50 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 152	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023250_PS

PLOT DATE : 1/14/2021 10:38 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

M3-3
M1-6
M1-93
SOUTH 32
J4-1

SOUTH INTERSTATE 43 57
J4-1
ESTR

1612+00 1613+00 1614+00 IH-43 1615+00 1616+00 1617+00 1618+0

EXIT 50 MPH
W13-2
TYPE II
ESTR

TYPE I
ESTR
EXIT 89
C
Cedarburg
E4-1A

SHEET 51 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 153	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023251_PS

PLOT DATE : 1/14/2021 10:39 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

NO SIGNS
THIS SHEET

1618+00 1619+00 1620+00 IH-43 1621+00 1622+00 1623+00 162

SHEET 52 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 154	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023252_PS

PLOT DATE : 1/14/2021 10:40 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

W4-3R
ESTR

IH-43

1624+00 1625+00 1626+00 1627+00 1628+00 1629+00

INL INL

EXIT
89

E5-1A
ESTR

W5-54 W5-54

W8-5

NEXT
1 MILE

ESTR

SHEET 53 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 155	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023253_PS

PLOT DATE : 1/14/2021 10:41 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

CITY OF MEQUON

I2-3A
TYPE II
ESTR

PIONEER RD

N

00 1630+00 1631+00 1632+00 1633+00 1634+00 1635+00

IH-43

W4-1R
ESTR

PIONEER RD

SHEET 54 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 156	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023254_PS

PLOT DATE : 1/14/2021 10:43 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

EXIT
89

E5-1A
TYPE II
ESTR

W5-54 W5-54

IH-43

1635+00 1636+00 1637+00 1638+00 1639+00 1640+00

SHEET 55 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 157	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023255_PS

PLOT DATE : 1/14/2021 10:44 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

RIPRAP

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

NO SIGNS
THIS SHEET

1641+00 1642+00 1643+00 IH-43 1644+00 1645+00 1646+00

SHEET 56 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 158	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023256_PS

PLOT DATE : 1/14/2021 10:45 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

E4-1A
ESTR

EXIT 89

C

Cedarburg

EXIT
50
MPH
W13-2

IH-43

1646+00 1647+00 1648+00 1649+00 1650+00 1651+00

NORTH
INTERSTATE
43
57
J4-1
ESTR

NORTH
32
J4-1
ESTR

SHEET 57 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 159	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023257_PS

PLOT DATE : 1/14/2021 10:46 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

Historic Downtown
Cedarburg
Exit 89

TYPE I
ESTR

SIGN

N

FO

IH-43

1652+00 1653+00 1654+00 1655+00 1656+00 1657+00

SPEED LIMIT
70
R2-1
ESTR

SHEET 58 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 160	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023258_PS

PLOT DATE : 1/14/2021 10:47 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

GAS
FOOD
(SIS)

TYPE I
ESTR
CONTACT WISC
BUSINESS LOGOS
608-579-1570 IF
MOVE NEEDED

IH-43

1658+00 1659+00 1660+00 1661+00 1662+00 1663+00

SHEET 59 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 161	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023259_PS

PLOT DATE : 1/14/2021 10:49 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

INL

IH-43

1663+00 1664+00 1665+00 1666+00 1667+00 1668+00 1669+00

EMERGENCY STOPPING ONLY

R8-7
ESTR

Grafton 3
Sheboygan 37
Green Bay 96

D1-3
TYPE I
ESTR

SHEET 60 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 162	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023260_PS

PLOT DATE : 1/14/2021 10:50 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

Milwaukee Area Tech College North Campus

Concordia Univ. EXIT 89

TYPE I ESTR

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

FO

IH-43

1669+00 1670+00 1671+00 1672+00 1673+00 1674+00 1675+00

SHEET 61 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 163 E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023261_PS

PLOT DATE : 1/14/2021 10:51 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

LODGING ATTRACTIONS (SIS)

TYPE I
ESTR
CONTACT WISC BUSINESS
LOGOS IF MOVE IS REQUIRED
608-579-1570

N

FO

IH-43

1675+00 1676+00 1677+00 1678+00 1679+00 1680+00

SLOWER TRAFFIC KEEP RIGHT
R4-3
ESTR

2

SHEET 62 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 164	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023262_PS

PLOT DATE : 1/14/2021 10:52 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

RIPRAP

Pioneer Rd
Park & Ride
Exit 89

TYPE I
ESTR

N

LAKEFIELD RD

IH-43

1681+00 1682+00 1683+00 1684+00 1685+00 1686+00

W5-52R
ESTR

Lakefield Rd
M1-94
ESTR

LAKEFIELD RD

2

SHEET 63 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 165	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023263_PS

PLOT DATE : 1/14/2021 10:53 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

LAKEFIELD RD

Lakefield Rd
M1-94
ESTR

W5-52R
ESTR

IH-43

1686+00 1687+00 1688+00 1689+00 1690+00 1691+00

LAKEFIELD RD

SHEET 64 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 166	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023264_PS

PLOT DATE : 1/14/2021 10:55 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

HOSPITAL
EXIT 89

TYPE I
ESTR

IH-43

1692+00 1693+00 1694+00 1695+00 1696+00 1697+00

SHEET 65 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 167	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023265_PS

PLOT DATE : 1/14/2021 10:56 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

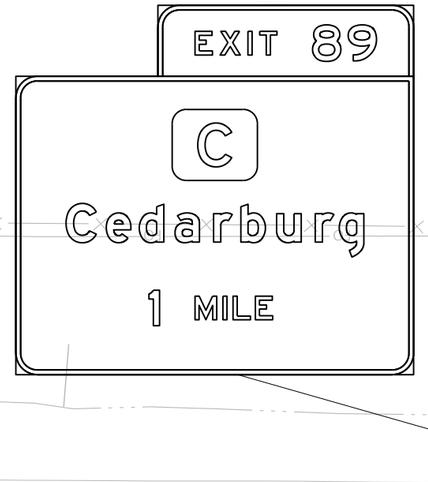
CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

TYPE I
ESTR



N

IH-43

1697+00 1698+00 1699+00 1700+00 1701+00 1702+00

STORAGE

SHEET 66 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 168	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023266_PS

PLOT DATE : 1/14/2021 10:57 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

NO SIGNS
THIS SHEET

IH-43

1703+00 1704+00 1705+00 1706+00 1707+00 1708+00

SHEET 67 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 169	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023267_PS

PLOT DATE : 1/14/2021 10:58 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

FO

MEQUON
NEXT 2 EXITS

TYPE I
ESTR

IH-43

1708+00 1709+00 1710+00 1711+00 1712+00 1713+00 1714

EXIT 92

60 Q

Grafton

1 MILE

E1-1A
TYPE I
ESTR

SHEET 68 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 170	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023268_PS

PLOT DATE : 1/14/2021 10:59 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

NO SIGNS
THIS SHEET

IH-43

1714+00 1715+00 1716+00 1717+00 1718+00 1719+00 172

SHEET 69 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 171	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023269_PS

PLOT DATE : 1/14/2021 11:01 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

IH-43

1720+00 1721+00 1722+00 1723+00 1724+00 1725+00

HOSPITAL
EXIT 92

TYPE I
ESTR

SHEET 70 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 172	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023270_PS

PLOT DATE : 1/14/2021 11:02 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

1726+00 1727+00 1728+00 IH-43 1729+00 1730+00 1731+00

FOOD
(SIS)

TYPE I
ESTR
CONTACT WISC
BUSINESS LOGOS
608-579-1570
MOVE IF REQUIRED

SHEET 71 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 173	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023271_PS

PLOT DATE : 1/14/2021 11:03 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

RIPRAP

NO SIGNS
THIS SHEET

1731+00 1732+00 1733+00 IH-43 1734+00 1735+00 1736+00 1737+00

SHEET 72 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 174	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023272_PS

PLOT DATE : 1/14/2021 11:04 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

FALLS RD

Falls Rd
M1-94
ESTR

IH-43

1737+00 1738+00 1739+00 1740+00 1741+00 1742+00

FOOD
(SIS)

TYPE I
ESTR
CONTACT WISC
BUSINESS LOGOS
608-579-1570
MOVE IF REQUIRED

Falls Rd
M1-94
ESTR

FALLS RD

POST

GUY

SHEET 73 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 175	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023273_PS

PLOT DATE : 1/14/2021 11:06 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

IH-43

1743+00

1744+00

1745+00

1746+00

1747+00

1748+00

GAS LODGING (SIS)

TYPE I
ESTR
CONTACT WISC
BUSINESS LOGOS
608-579-1570
MOVE IF REQUIRED

SHEET 74 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 176	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023274_PS

PLOT DATE : 1/14/2021 11:07 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

2

Wisconsin
Road
Emergency
Cellular 911

ESTR

IH-43

1749+00 1750+00 1751+00 1752+00 1753+00 1754+00

RIDESHARE INFORMATION
www.rideshare.wi.gov

D12-2B
TYPE II
ESTR

SHEET 75 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 177	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023275_PS

PLOT DATE : 1/14/2021 11:08 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

NO SIGNS
THIS SHEET

IH-43

1755+00 1756+00 1757+00 1758+00 1759+00 1760+00

2

SHEET 76 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 178	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023276_PS

PLOT DATE : 1/14/2021 11:09 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

FOOTBRIDGE

SPEED LIMIT 70
R2-1
ESTR

SOUTH 32
J4-1

SOUTH INTERSTATE 43 57
J4-1
ESTR

EXIT 92
60 Q
Grafton
E1-A1
TYPE I
ESTR

EXIT 50 MPH
W13-2
ESTR

IH-43

1760+00 1761+00 1762+00 1763+00 1764+00 1765+00

SHEET 77 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 179	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023277_PS

PLOT DATE : 1/14/2021 11:10 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

RIPRAP

RIPRAP

FO

N

IH-43

1766+00 1767+00 1768+00 1769+00 1770+00 1771+00

NO SIGNS
THIS SHEET

SAN

SHEET 78 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 180	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023278_PS

PLOT DATE : 1/14/2021 11:12 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

1771+00 1772+00 1773+00 1774+00 IH-43 1775+00 1776+00 1777+00

EXIT
92

E5-1A
TYPE II
ESTR

W5-54 W5-54

SHEET 79 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 181	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023279_PS

PLOT DATE : 1/14/2021 11:13 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

STH 60 (WASHINGTON ST)

N

W4-1R

IH-43

1777+00 1778+00 1779+00 1780+00 1781+00 1782+00

PORT WASHINGTON
NEXT 3 EXITS

TYPE I
ESTR

W4-1R

STH 60 (WASHINGTON ST)

SHEET 80 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 182	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023280_PS

PLOT DATE : 1/14/2021 11:14 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

NO SIGNS
THIS SHEET

IH-43

1783+00 1784+00 1785+00 1786+00 1787+00 1788+00

SHEET 81 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 183	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023281_PS

PLOT DATE : 1/14/2021 11:15 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

ESTR EXISTING SIGN TO REMAIN

N

NO SIGNS
THIS SHEET

IH-43

1788+00 1789+00 1790+00 1791+00 1792+00 1793+00 1794+00

2

SHEET 82 OF 87

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 184	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023241_PS_18.DWG
LAYOUT NAME - 023282_PS

PLOT DATE : 1/14/2021 11:16 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

IH-43

1113

1113+00

1114

N. PORT WASHINGTON RD

SIGNAL

113+00

114+00

115+00

116+00

117+00

118+00

N. PORT WASHINGTON RD

W. COVENTRY CT

NO SIGNS
THIS SHEET

SHEET 83 OF 87

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 185	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023283_PS_18.DWG
LAYOUT NAME - 023283_PS

PLOT DATE : 1/14/2021 11:21 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

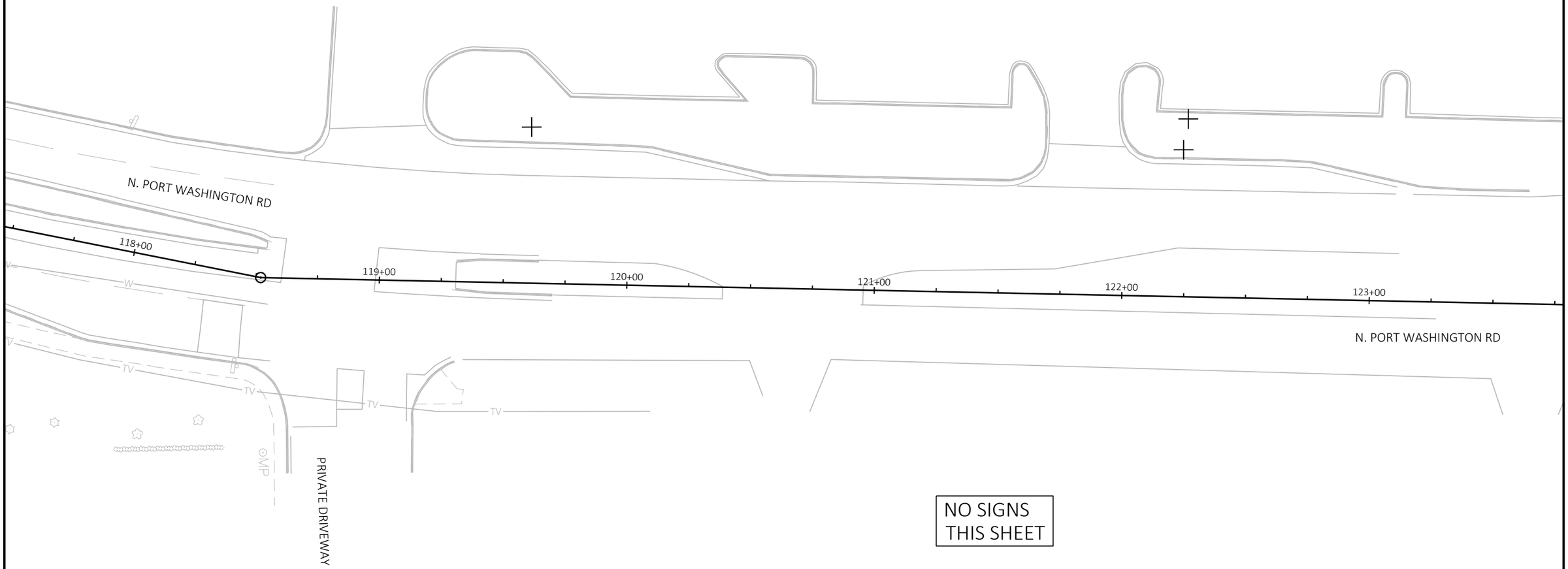
2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N



SHEET 84 OF 87

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 186	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023283_PS_18.DWG
LAYOUT NAME - 023284_PS

PLOT DATE : 1/14/2021 11:22 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

N

N. PORT WASHINGTON RD

124+00 125+00 126+00 127+00 128+00 129+00

N. PORT WASHINGTON RD

REMOVE
35 NO PARKING ANY TIME
R7-1D (2S)

REMOVE
36
36A W11-2 (2S)
W16-7L (2S)

REMOVE
37
37A W11-2 (2S)
W16-7L (2S)

2

SHEET 85 OF 87

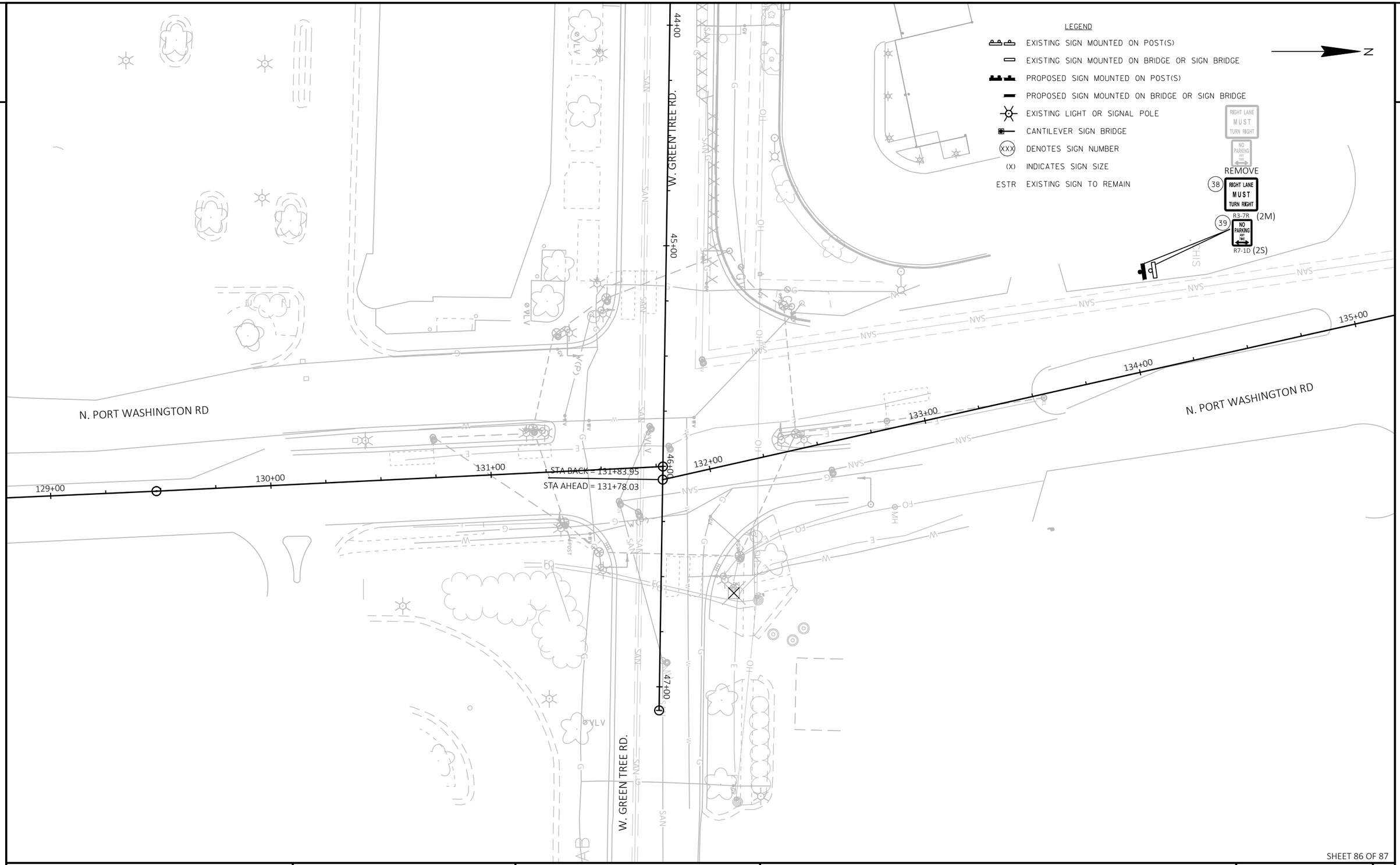
PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 187	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023283_PS_18.DWG
LAYOUT NAME - 023285_PS

PLOT DATE : 1/14/2021 11:24 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



2

SHEET 86 OF 87

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 188	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023283_PS_18.DWG
LAYOUT NAME - 023286_PS

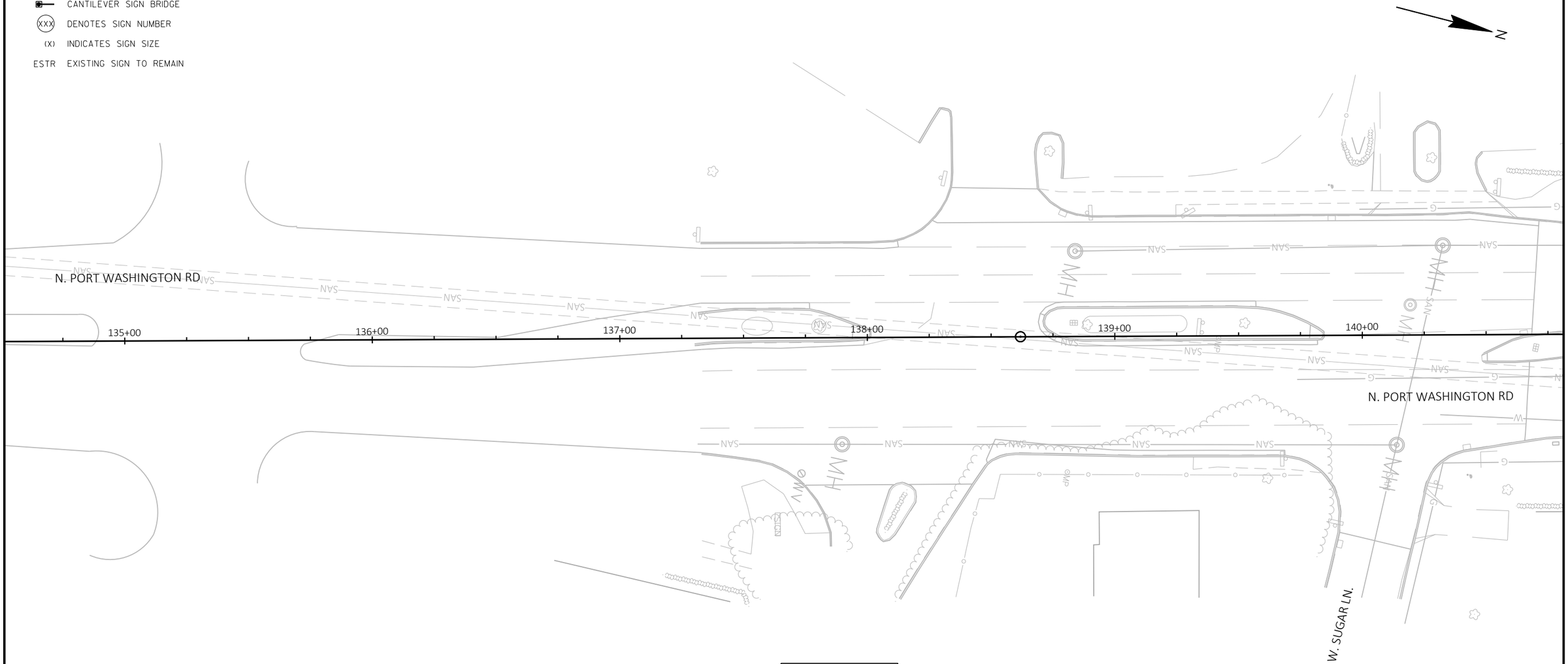
PLOT DATE : 1/14/2021 11:25 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN



NO SIGNS
THIS SHEET

2

SHEET 87 OF 87

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE	PERMANENT SIGNING PLAN	SHEET 189	E

FILE NAME : N:\PDS\C3D\CAD\12290402\70\SIGN\023283_PS_18.DWG
LAYOUT NAME - 023287_PS

PLOT DATE : 1/14/2021 11:27 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

TRAFFIC CONTROL OVERVIEW

STAGE 1 IH 43 TRAFFIC (STA 1271+08.37 TO STA 1367+92.50):

- PERMANENTLY CLOSE THE NB IH 43 EXIT RAMP TO PORT WASHINGTON ROAD.
- PERMANENTLY CLOSE THE SB IH 43 ENTRANCE RAMP FROM COUNTY LINE ROAD.
- OUTSIDE LANE CLOSURES FOR IH 43 NB AND SB TRAFFIC PERMITTED DURING FREEWAY CLOSURE HOURS ONLY.
- INGRESS AND EGRESS INTO THE STAGING ZONES ALONG IH 43, SHALL BE COMPLETED DURING FREEWAY CLOSURE HOURS.
- PORT WASHINGTON ROAD SB TRAFFIC REDUCED TO ONE LANE BETWEEN THE IH 43 NB EXIT RAMP AND COUNTY LINE ROAD.

STAGE 1 IH 43 TRAFFIC (STA 1578+00.00 TO STA 1784+50.00):

- OUTSIDE LANE CLOSURES FOR IH 43 NB TRAFFIC PERMITTED DURING OFF PEAK HOURS ONLY.
- INGRESS AND EGRESS INTO THE STAGING ZONES ALONG IH 43, SHALL BE COMPLETED DURING FREEWAY CLOSURE HOURS OR WITH THE ASSISTANCE OF A SAFETY VEHICLE (INCIDENTAL TO THE CONTRACT COST).
- NB IH 43 EXIT RAMP TO CTH C AND NB IH 43 ENTRANCE RAMP FROM CTH C MAY BE CLOSED TOGETHER FOR A ONETIME ONLY PERIOD IN 2021 FROM 10:00 PM ON A FRIDAY TO 6:00 AM THE FOLLOWING MONDAY TO REPLACE IH 43 NB SHOULDERS AS SHOWN IN STAGE 1B OF THE PLANS.
- NB IH 43 EXIT RAMP TO STH 60 MAY BE CLOSED FOR A ONETIME ONLY PERIOD IN 2021 FROM 10:00 PM ON A FRIDAY TO 6:00 AM THE FOLLOWING MONDAY TO REPLACE IH 43 NB SHOULDERS AS SHOWN IN STAGE 1C OF THE PLANS.
- FULL CLOSURES OF THE NB RAMPS TO AND FROM CTH C WILL NOT BE ALLOWED AT THE SAME TIME AS FULL CLOSURE OF THE NB IH 43 EXIT RAMP TO STH 60.
- PLACE TWO INCHES OF HMA PAVEMENT (UPPER LAYER) DURING ONE WEEKEND FROM 10:00 PM ON A FRIDAY TO 6:00 AM THE FOLLOWING MONDAY.

STAGE 2 IH 43 TRAFFIC (STA 1271+08.37 TO STA 1367+92.50):

- MAINTAIN IH 43 NB AND SB TRAFFIC ON EXISTING LANES AS SHOWN ON THE PLANS.
- INGRESS AND EGRESS INTO THE STAGING ZONES ALONG IH 43, SHALL BE COMPLETED DURING FREEWAY CLOSURE HOURS. SEE DETAIL: WORK ZONE INGRESS/EGRESS - 4 LANE.
- ONE NIGHT FULL FREEWAY CLOSURE IS ANTICIPATED FOR REMOVING OVERHEAD FREEWAY DMS S-45-401.
- PORT WASHINGTON ROAD SB TRAFFIC REDUCED TO ONE LANE BETWEEN THE IH 43 NB EXIT RAMP AND COUNTY LINE ROAD.

STAGE 3 IH 43 TRAFFIC (STA 1271+08.37 TO STA 1367+92.50):

- MOVE CONCRETE BARRIER TEMPORARY PRECAST LEFT IN PLACE DURING FREEWAY CLOSURE HOURS.
- MAINTAIN IH 43 NB AND SB TRAFFIC ON EXISTING LANES.
- PORT WASHINGTON ROAD SB TRAFFIC REOPENS TO TWO LANES BETWEEN THE IH 43 NB EXIT RAMP AND COUNTY LINE ROAD.

PORT WASHINGTON ROAD TRAFFIC (STA 114+83 AND STA 140+70):

- PORT WASHINGTON ROAD REDUCED TO ONE LANE IN EACH DIRECTION DURING OFF PEAK HOURS (NIGHT TIME CLOSURE HOURS) ONLY.

LEGEND

- TYPE III BARRICADE WITH WARNING LIGHTS TYPE A
- TYPE III BARRICADE WITH WARNING LIGHTS TYPE A AND ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- DIRECTION OF TRAFFIC
- PCMS — PORTABLE CHANGEABLE MESSAGE BOARD
- TEMPORARY CRASH CUSHION
- L.I.P. — TRAFFIC CONTROL SIGN TO BE LEFT IN PLACE
- L.I.P.** — TRAFFIC CONTROL SIGN TO BE LEFT IN PLACE, INSTALLED IN PREVIOUS STAGE

GENERAL NOTES FOR TRAFFIC CONTROL

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

2) CONFLICTING TRAFFIC SIGNS SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER. CONFLICTING SIGNS WILL BE COVERED USING THE STANDARD BID ITEM, TRAFFIC CONTROL COVERING SIGNS, TYPE I/II.

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

4) FOR NIGHTTIME OPERATION, ALL DRUMS IN TAPERS SHALL HAVE A TYPE C STEADY BURN WARNING LIGHT.

5) ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TYPE A (LOW INTENSITY FLASHING) LIGHTS.

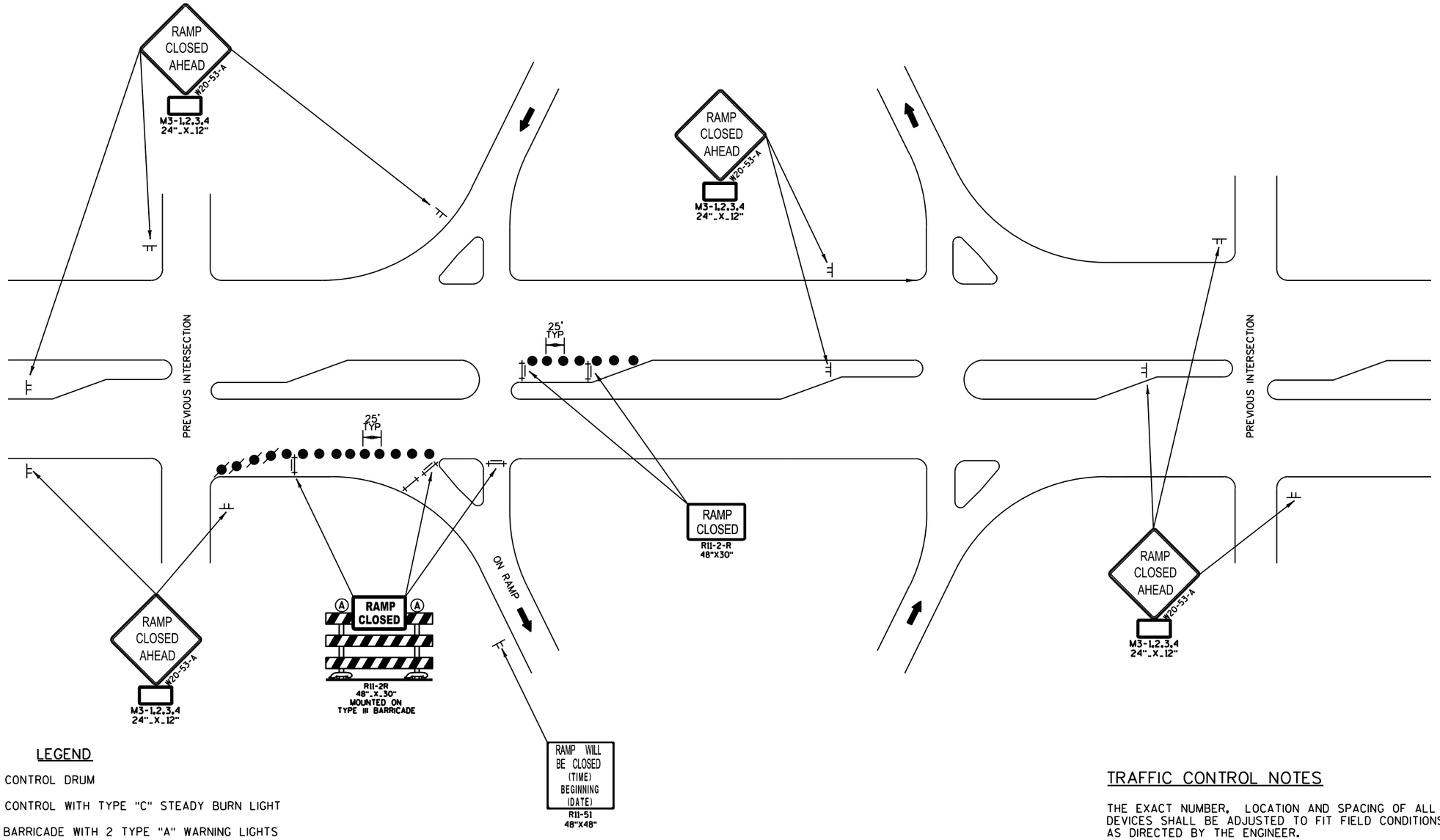
6) ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.

7) BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.

8) TYPICAL DRUM SPACING IS 100' (50' IN TAPERS) UNLESS OTHERWISE NOTED IN THE PLANS.

9) STATION/OFFSET LABELS ON CONCRETE BARRIER TEMPORARY PRECAST ARE TO CENTER OF BARRIER AT HINGE POINTS.

2





LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH 2 TYPE "A" WARNING LIGHTS
- TYPE III BARRICADE WITH 2 TYPE "A" WARNING LIGHTS (FLASHING)
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE
SHORT TERM ONLY

TRAFFIC CONTROL NOTES

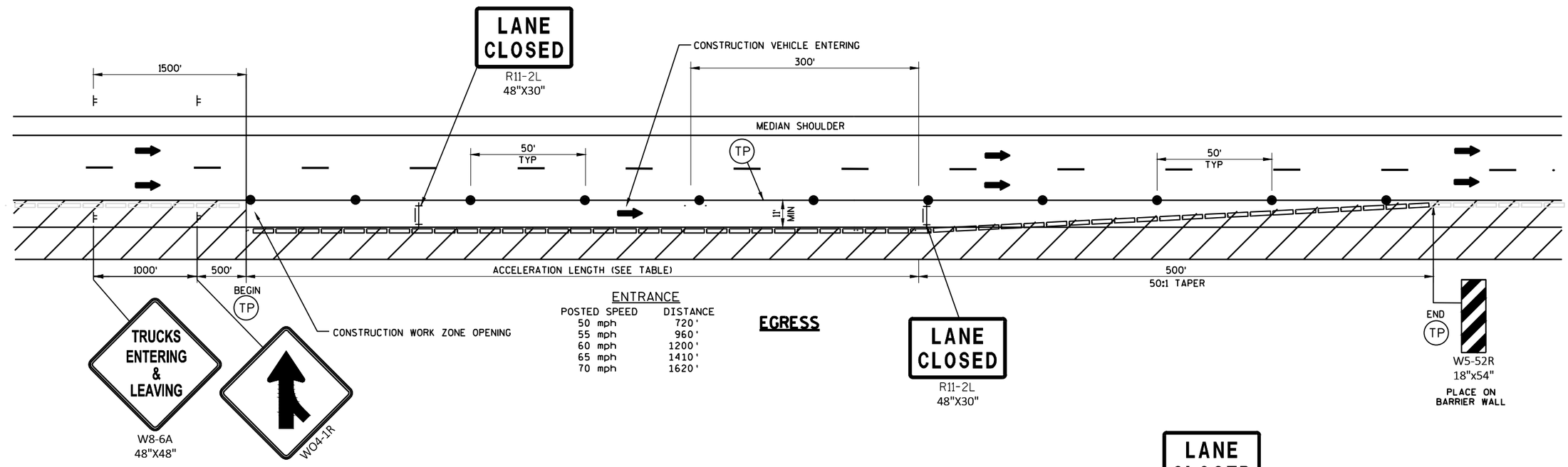
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

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

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

SHORT TERM DEFINED AS 7 DAYS/NIGHTS OR LESS. FOR NIGHT TIME OPERATIONS ALL DRUMS IN TAPERS SHALL HAVE WARNING LIGHT, TYPE C (STEADY BURN). MAY BE APPLIED TO ARTERIALS OR LOCAL ROADS.

2



LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING CONCRETE BARRIER TEMPORARY PRECAST
- DIRECTION OF TRAFFIC
- WORK ZONE
- CC — CRASH CUSHION TEMPORARY

INGRESS

- SIGN ON TEMPORARY SUPPORT
- SIGN MOUNTED ON PERMANENT POST(S)
- TRAFFIC CONTROL BARRICADE TYPE III W/ SIGN W/ TWO (2) TYPE "A" WARNING LIGHTS (FLASHING) (USED WHEN INGRESS/EGRESS NOT IN USE)
- TRAFFIC CONTROL DRUMS (USED WHEN EGRESS/INGRESS NOT IN USE)
- TP — TEMPORARY MARKING LINE REFLECTIVE PAINT 4-INCH (WHITE, SOLID) (USE YELLOW, SOLID FOR MEDIAN INGRESS/EGRESS)

EXIT

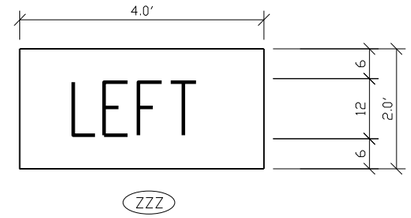
POSTED SPEED	DISTANCE
50 mph	435'
55 mph	480'
60 mph	530'
65 mph	570'
70 mph	615'

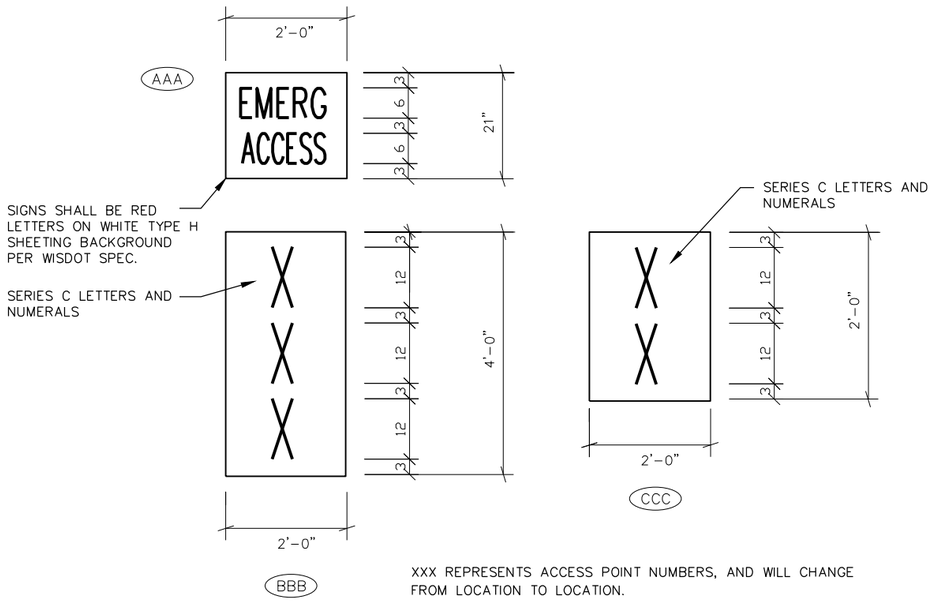
NOTES

1. RIGHT LANE ACCESS SHOWN (MEDIAN LANE ACCESS SIMILAR).
2. WORK ZONE INGRESS/EGRESS LOCATIONS SHALL BE APPROVED BY THE ENGINEER. LOCATIONS FOR WORK ZONE ACCESS TO/FROM THE FREEWAY SHALL NOT BE USED FOR INGRESS AND EGRESS AT THE SAME TIME.
3. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
4. TEMPORARY SUPPORTS MAYBE USED IF PLACED BEHIND TEMPORARY BARRIER WALL.
5. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
6. THE "WO" SINGS ARE THE SAME AS "W" SIGNS.
7. TRUCKS SHALL USE FLASHING YELLOW BEACON WHEN ENTERING AND EXITING LIVE TRAFFIC.
8. FREE FLOW TRAFFIC LANES SHALL BE A MINIMUM WIDTH OF ELEVEN FEET AND ACCOMMODATE A ONE FOOT SHY DISTANCE FROM TRAFFIC CONTROL DEVICES.
9. ITEMS ON THIS SHEET TO BE PAID USING STANDARD BID ITEMS.

WORK ZONE INGRESS/EGRESS - 4 LANE

2





EMERGENCY ACCESS SIGNS

NOTES

1. AFTER SIGNS HAVE BEEN LOCATED IN THE FIELD, BUT BEFORE INSTALLATION, THE PROJECT ENGINEER SHALL VERIFY EACH SIGN LOCATION.
2. ALL SIGNS TO BE MOUNTED ON WOODEN POST SUPPORTS (4"x6"). THE NUMBER OF POSTS REQUIRED FOR EACH LAYOUT IS SHOWN. STEEL POSTS (2"X2") MAY BE USED FOR SIGNS ON SURFACE STREETS. SIGNS WHERE NO POSTS ARE SHOWN TO BE MOUNTED ON EXISTING SIGNS. FOR SIGNS MOUNTED ON POSTS, USE POSTS FROM FHWA LIST OF ACCEPTED BREAKAWAY SIGN SUPPORTS.
3. SIGNS ON THIS SHEET TO BE PAID UNDER THE ITEM "TRAFFIC CONTROL SIGNS".
4. ALL SIGNS SHALL HAVE CAPITAL LETTERS AND NUMERALS: 12" AND 8" CAPS SHALL BE SERIES "D", 6" CAPS SHALL BE SERIES "C" UNLESS OTHERWISE NOTED.
5. SIGN BASE MATERIAL SHALL BE ACCORDING TO SECTION 637.2.1.2..
6. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

XXX = SIGN NUMBER

WORK ZONE EMERGENCY ACCESS SIGNS

2

2

N

N JEAN NICOLET RD

R/L IH 43

IH 43 SB

1114+00 1115+00 1116+00 1117+00 1118+00 1119+00 1120+00 1121+00 1122+00 1123+00 1124+00 1125+00 1126+00 1127+00 1128+00

IH 43 NB

ROAD WORK
3 MILES AHEAD

FMS-1
SEE SIGN DETAIL
SIGN SHALL BE LEFT IN PLACE
FOR ALL STAGES AND AT THE
COMPLETION OF CONTRACT

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 194	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (0)

PLOT DATE : 1/12/2021 8:43 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : ##########

2

2

MATCHLINE STA 1215+25.00

N

N PHEASANT LN

R/L IH 43

IH 43 SB

1200+00 1201+00 1202+00 1203+00 1204+00 1205+00 1206+00 1207+00 1208+00 1209+00 1210+00 1211+00 1212+00 1213+00 1214+00 1215+00

SLAB

25'

12' TYP

12' TYP

50' TYP SPACING

IH 43 NB

ROAD WORK 1 MILE
W20-1F

PORT WASHINGTON RD EXIT CLOSED USE EXIT 82A

FMS-2
SEE SIGN DETAIL
SIGN SHALL BE LEFT IN PLACE FOR ALL STAGES AND AT THE COMPLETION OF CONTRACT

500'

LEFT LANE CLOSED 1/2 MILE
W20-5G

W04-2L

2600'

1600'

1000'

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 195	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (1)
PLOT DATE : 1/12/2021 8:44 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 1230+50.00

N PHEASANT LN

SLAB

R/L IH 43

IH 43 SB

1216+00 1217+00 1218+00 1219+00 1220+00 1221+00 1222+00 1223+00 1224+00 1225+00 1226+00 1227+00 1228+00 1229+00 1230+00

IH 43 NB

50' TYP SPACING

12' TYP

TO W Port Washington Rd NEXT RIGHT

FMS-3
SEE SIGN DETAIL
SIGN SHALL BE LEFT IN PLACE FOR ALL STAGES AND AT THE COMPLETION OF CONTRACT

LANE CLOSED
R11-2L
48"X30"

STA 1218+45 25' RT

STA 1225+05 37' RT

1000'

660' TAPER

MATCHLINE STA 1215+25.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 196	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (2)

PLOT DATE : 1/12/2021 8:45 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 1230+50.00

MATCHLINE STA 1245+75.00

N

N PHEASANT LN

R/L IH 43

1231+00 1232+00 1233+00 1234+00 1235+00 1236+00 1237+00 1238+00 1239+00 1240+00 1241+00 1242+00 1243+00 1244+00 1245+00

IH 43 SB

IH 43 NB

12' TYP

LANE CLOSED
R11-2L
48"X30"

ROAD WORK NEXT 10 MILES

FMS-5
SEE SIGN DETAIL
SIGN SHALL BE LEFT IN PLACE
FOR ALL STAGES AND AT THE
COMPLETION OF CONTRACT

TO W Port Washington Rd

FMS-4
SEE SIGN DETAIL
SIGN SHALL BE LEFT IN PLACE
FOR ALL STAGES AND AT THE
COMPLETION OF CONTRACT

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 197	E

2

MATCHLINE STA 1245+75.00

MATCHLINE STA 1261+00.00

BROWN DEER RD/STH 100

R/L IH 43

IH 43 SB

IH 43 NB

1246+00 1247+00 1248+00 1249+00 1250+00 1251+00 1252+00 1253+00 1254+00 1255+00 1256+00 1257+00 1258+00 1259+00 1260+00 1261

50' TYP SPACING

25' TYP SPACING

12' TYP

LANE CLOSED
R11-2L
48"X30"

RAMP CLOSED AHEAD
W20-5A
L.I.P.

W04-1R
L.I.P.

YIELD
R1-2
48"X42"

W01-4L

STA 1259+92
45' RT

600' TAPER

W03-2

NB ENTRANCE RAMP

NB EXIT RAMP

NB EXIT RAMP

NB ENTRANCE RAMP

ROAD WORK AHEAD
W20-1A

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 198	E

2

2

MATCHLINE STA 1276+25.00

MATCHLINE STA 1261+00.00

N

BEGIN PROJECT
STA 1271+08.37

R/L IH 43

12' TYP

IH 43 SB

IH 43 NB

12' TYP

PCMS

LANE CLOSED
R11-2L
48"X30"

END ROAD WORK
G20-2A
48"X24"

50' TYP SPACING

25' TYP SPACING

50' TYP SPACING

50' TYP SPACING

LANE CLOSED
R11-2L
48"X30"

W
Port Washington Rd
½ MILE
EXIT ONLY

RAMP CLOSED

COVER OVERHEAD SIGN
G20-6J
108"X24"
SIGN COVER SHALL BE LEFT IN PLACE FOR ALL STAGES AND AT THE COMPLETION OF CONTRACT

WO1-6
48"X24"

RAMP CLOSED 1000 FT
W20-5C

LANE CLOSED
R11-2L
48"X30"

L.I.P.

1262+00 1263+00 1264+00 1265+00 1266+00 1267+00 1268+00 1269+00 1270+00 1271+00 1272+00 1273+00 1274+00 1275+00 1276+00

STA 1265+92
45' RT

STA 1267+60
36' RT

STA 1270+90
28' RT

600' TAPER

330' SHIFT

500' BUFFER

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 199	E

FILE NAME : C:\DOT WORK IH 43 WZ\025301-TC.DWG
LAYOUT NAME - TC1 - (5)

PLOT DATE : 1/13/2021 1:35 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 1291+50.00

MATCHLINE STA 1276+25.00

PARK & RIDE
CRASH INVESTIGATION SITE EXIT 82B

FMS-7
SEE SIGN DETAIL
SIGN SHALL BE LEFT IN PLACE
FOR ALL STAGES AND AT THE
COMPLETION OF CONTRACT

LANE CLOSED
R11-2L
48"X30"

12' TYP

R/L IH 43

EXIT 82 A-B
100 WEST
FIRST RIGHT
32 SOUTH
SECOND RIGHT
Brown Deer Rd
½ MILE

FMS-9
SEE SIGN DETAIL
SIGN SHALL BE LEFT IN PLACE
FOR ALL STAGES AND AT THE
COMPLETION OF CONTRACT

GAS-FOOD-ATTRACTIONS EXIT 82A
BP MOBIL
SCHLITZ AUDUBON

FMS-10
SEE SIGN DETAIL
SIGN SHALL BE LEFT IN PLACE
FOR ALL STAGES AND AT THE
COMPLETION OF CONTRACT

LANE CLOSED
R11-2L
48"X30"

IH 43 SB

1277+00 1278+00 1279+00 1280+00 SLAB 1281+00 1282+00 1283+00 1284+00 1285+00 1286+00 1287+00 1288+00 1289+00 1290+00 1291+00

IH 43 NB

COVER OVERHEAD SIGN
PRIOR TO REMOVAL

RAMP CLOSED
R11-2R
48"X30"

RAMP CLOSED
R11-2R
48"X30"

12' TYP

25' TYP SPACING

COVER EXISTING
EXIT SIGN

NB EXIT RAMP

NEW TRAFFIC PATTERN AHEAD
WO23-2

LANE CLOSED
R11-2L
48"X30"

END ROAD WORK
G20-2a
48"X24"

COVER OVERHEAD SIGNS
SIGN COVER SHALL
BE LEFT IN PLACE
FOR ALL STAGES AND
AT THE COMPLETION OF CONTRACT

PORT WASHINGTON RD

ROAD WORK AHEAD
W20-1A

NEW TRAFFIC PATTERN AHEAD
WO23-2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 200	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\025301-TC.DWG
LAYOUT NAME - TC1 - (6)
PLOT DATE : 3/31/2021 10:10 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

N

N PHEASANT LN

N PHEASANT LN

SB ENTRANCE RAMP

LANE CLOSED
R11-2L
48"X30"

R/L IH 43

12' TYP

IH 43 SB

1292+00 1293+00 1294+00 1295+00 1296+00 1297+00 1298+00 1299+00 1300+00 1301+00 1302+00 1303+00 1304+00 1305+00 1306+00

IH 43 NB

12' TYP

PORT WASHINGTON RD

50' TYP SPACING

NEW TRAFFIC PATTERN AHEAD
WD23-2

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

STA 1303+99
98' RT

25' TYP SPACING

245' TAPER

STA 1306+51
116' RT

MATCHLINE STA 1291+50.00

MATCHLINE STA 1306+75.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 201	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\025301-TC.DWG
LAYOUT NAME - TC1 - (7)

PLOT DATE : 3/31/2021 12:12 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

COUNTY LINE RD

FOOD EXIT 82A
JOSE'S BLUE SOMBRERO
BENJI'S
SUBWAY

FMS-11
SEE SIGN DETAIL
SIGN SHALL BE LEFT IN PLACE
FOR ALL STAGES AND AT THE
COMPLETION OF CONTRACT

TYPE III BARRICADES LEFT IN PLACE

SEE DETOUR PLAN FOR
ADDITIONAL SIGNING

RAMP
CLOSED
R11-2R
48"X30"
L.I.P.

PORT WASHINGTON LN

LANE
CLOSED
R11-2L
48"X30"

SB ENTRANCE RAMP

NO WORK STA 1310+00.00 TO
STA 1312+00.00

SLAB

R/L IH 43

12' TYP

IH 43 SB

1307+00 1308+00 1309+00 1310+00 1311+00 1312+00 1313+00 1314+00 1315+00 1316+00 1317+00 1318+00 1319+00 1320+00 1321+00

IH 43 NB

NO WORK STA 1310+00.00 TO
STA 1312+00.00

LANE
CLOSED
R11-2L
48"X30"

SPEED
LIMIT
55
DIGITAL SPEED LIMIT SIGN ASSEMBLY
SEE SPECIAL PROVISIONS

12' TYP

W04-2R

RIGHT LANE
CLOSED
1/2 MILE
W20-5S

ROAD
WORK
1 MILE
W20-1F

PORT WASHINGTON RD

END
ROAD WORK
G20-2A
48"X24"

350'

350'

PORT WASHINGTON RD

MATCHLINE STA 1306+75.00

MATCHLINE STA 1322+00.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 202	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (8)

PLOT DATE : 1/12/2021 8:49 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 1337+25.00

MATCHLINE STA 1322+00.00

PORT WASHINGTON LN

LODGING-ATTRACTIONS EXIT 82B
FOUR POINTS
ROCKIN JUMP
LYNDEN GARDEN

FMS-13
SEE SIGN DETAIL
SIGN SHALL BE LEFT IN PLACE
FOR ALL STAGES AND AT THE
COMPLETION OF CONTRACT

12' TYP

NO WORK STA 1329+24.89 TO
STA 1332+25.32

LANE
CLOSED
R11-2L
48"X30"

R/L IH 43

IH 43 SB

SLAB 1323+00 SLAB 1324+00 1325+00 1326+00 1327+00 1328+00 1329+00 1330+00 1331+00 SLAB 1332+00 1333+00 1334+00 1335+00 1336+00 SLAB 1337+00

PORT WASHINGTON RD

IH 43 NB

12' TYP

LANE
CLOSED
R11-2L
48"X30"

FOOD-EXIT 85
FIRST WATCH
COUSINS
STARBUCKS
ZARLETTI MEQUON
ZAFFIRO'S PIZZERIA

FMS-12
SEE SIGN DETAIL
SIGN SHALL BE LEFT IN PLACE
FOR ALL STAGES AND AT THE
COMPLETION OF CONTRACT

NO WORK STA 1327+75.32 TO
STA 1330+74.89

KATHERINE DR

FISH CREEK

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 203	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (9)

PLOT DATE : 1/12/2021 8:50 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

PORT WASHINGTON RD

N

OVERSIZE LOADS RESTRICTED BEYOND NEXT EXIT

FMS-16
SEE SIGN DETAIL
SIGN SHALL BE LEFT IN PLACE FOR ALL STAGES AND AT THE COMPLETION OF CONTRACT

LANE CLOSED
R11-2L
48"X30"

12' TYP

R/L IH 43

IH 43 SB

1338+00 1339+00 1340+00 1341+00 1342+00 1343+00 1344+00 1345+00 1346+00 1347+00 1348+00 1349+00 1350+00 1351+00 1352+00

IH 43 NB

12' TYP

LANE CLOSED
R11-2L
48"X30"

MEQUON
NEXT 2 EXITS

FMS-14
SEE SIGN DETAIL
SIGN SHALL BE LEFT IN PLACE FOR ALL STAGES AND AT THE COMPLETION OF CONTRACT

EXIT 85
SOUTH 57
WEST 167
Mequon Rd
1 MILE

FMS-15
SEE SIGN DETAIL
SIGN SHALL BE LEFT IN PLACE FOR ALL STAGES AND AT THE COMPLETION OF CONTRACT

MATCHLINE STA 1352+50.00

MATCHLINE STA 1337+25.00

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 204	E

FILE NAME : C:\DOT WORK IH 43 WZ\025301-TC.DWG
LAYOUT NAME - TC1 - (10)

PLOT DATE : 1/18/2021 3:43 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 1352+50.00

MATCHLINE STA 1367+75.00

N

DONGES BAY RD

500' BUFFER

PCMS

LANE CLOSED
R11-2L
48"X30"

12' TYP

R/L IH 43

IH 43 SB

1353+00 1354+00 1355+00 1356+00 1357+00 1358+00 1359+00 1360+00 1361+00 1362+00 1363+00 1364+00 1365+00 1366+00 1367+00

IH 43 NB

12' TYP

LANE CLOSED
R11-2L
48"X30"

CONCORDIA UNIV
MILWAUKEE AREA TECH COLLEGE NORTH CAMPUS EXIT 85

FMS-17
SEE SIGN DETAIL
SIGN SHALL BE LEFT IN PLACE FOR ALL STAGES AND AT THE COMPLETION OF CONTRACT

LANE CLOSED
R11-2L
48"X30"

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 205	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (11)

PLOT DATE : 1/12/2021 8:52 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

MATCHLINE STA 1367+75.00

MATCHLINE STA 1383+00.00

2

500' BUFFER

600' TAPER

1000'

STA 1371+77
43' LT

STA 1378+40
54' LT

LANE CLOSED

R11-2
48"X30"

12' TYP

50' TYP SPACING

IH 43 SB

1368+00 1369+00 1370+00 1371+00 1372+00 1373+00 1374+00 1375+00 1376+00 1377+00 1378+00 1379+00 1380+00 1381+00 1382+00

IH 43 NB

END CONSTRUCTION
STA 1367+92.50

SPEED LIMIT 55

DIGITAL SPEED LIMIT SIGN ASSEMBLY
SEE SPECIAL PROVISIONS

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 206	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (12)

PLOT DATE : 1/12/2021 8:52 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

MATCHLINE STA 1383+00.00

MATCHLINE STA 1398+25.00

2

N

1000'

700'

W10-12

SPEED LIMIT 55

DIGITAL SPEED LIMIT SIGN ASSEMBLY SEE SPECIAL PROVISIONS

25'

12' TYP

12' TYP

IH 43 SB

1383+00 1384+00 1385+00 1386+00 1387+00 1388+00 1389+00 1390+00 1391+00 1392+00 1393+00 1394+00 1395+00 1396+00 1397+00 1398+00

IH 43 NB

R/L IH 43

500'

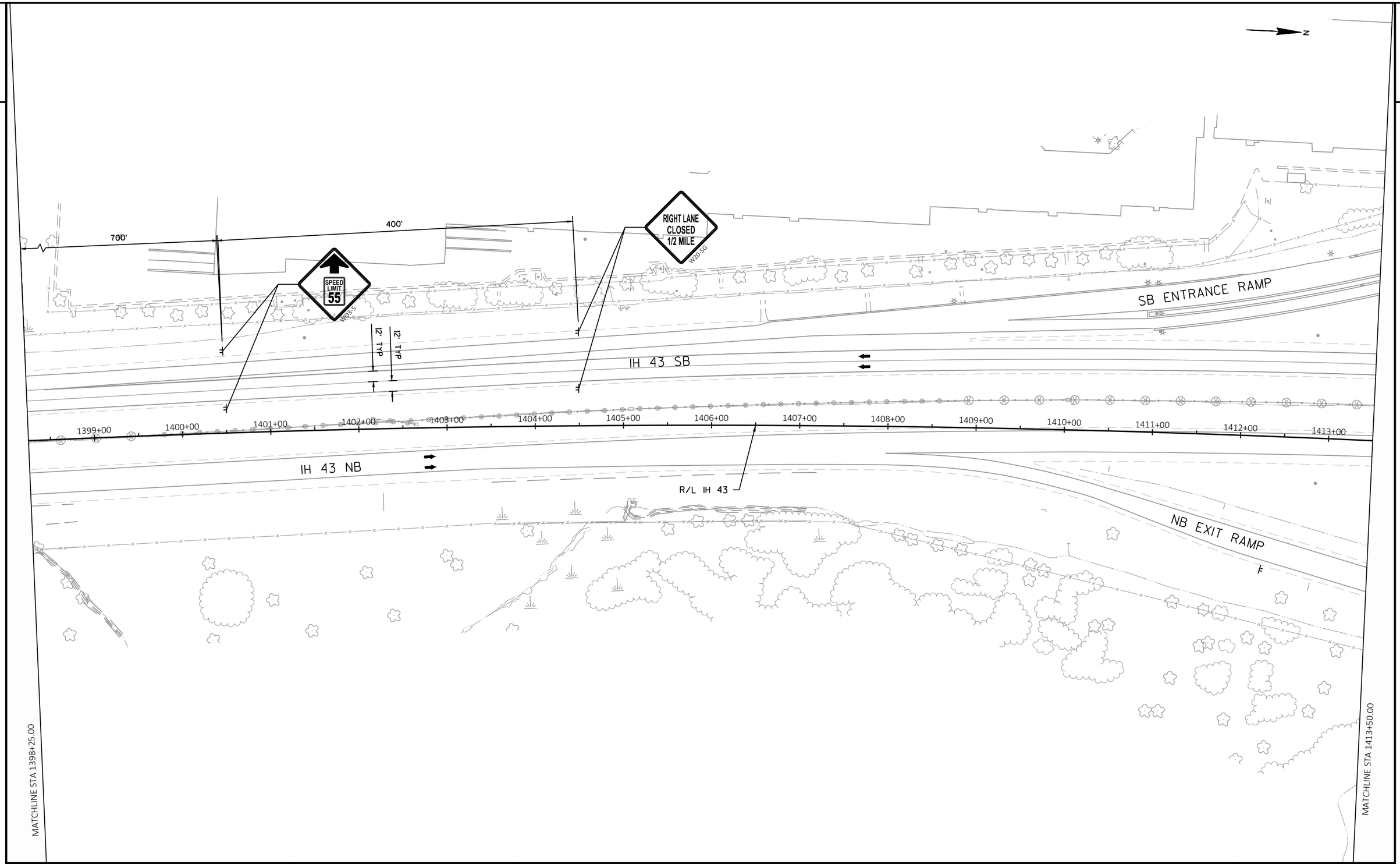
PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 207	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (13)

PLOT DATE : 1/12/2021 8:53 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 208	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (14)

PLOT DATE : 1/12/2021 8:54 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

ROAD WORK AHEAD
W20-1A

SB ENTRANCE RAMP

STH 57

SB EXIT RAMP

12' TYP

IH 43 SB

12' TYP

1414+00 1415+00 1416+00 1417+00 1418+00 1419+00 1420+00 1421+00 1422+00 1423+00 1424+00 1425+00 1426+00 1427+00 1428+00

IH 43 NB

R/L IH 43

NB EXIT RAMP

NB ENTRANCE RAMP

SIGN

ROAD WORK AHEAD
W20-1A

MATCHLINE STA 1413+50.00

MATCHLINE STA 1428+75.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 209	E

FILE NAME : C:\DOT WORK IH 43 WZ\025301-TC.DWG
LAYOUT NAME - TC1 - (15)

PLOT DATE : 1/13/2021 3:58 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 1444+00.00

MATCHLINE STA 1428+75.00

ROAD WORK 1 MILE

W20-1F

12' TYP

12' TYP

IH 43 SB

R/L IH 43

IH 43 NB

12' TYP

12' TYP

1429+00 1430+00 1431+00 1432+00 1433+00 1434+00 1435+00 1436+00 1437+00 1438+00 1439+00 1440+00 1441+00 1442+00 1443+00 1444

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 210	E

FILE NAME : C:\DOT WORK IH 43 WZ\025301-TC.DWG
LAYOUT NAME - TC1 - (16)

PLOT DATE : 1/13/2021 4:01 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

MATCHLINE STA 1444+00.00

MATCHLINE STA 1459+25.00

2

N

R/L IH 43

IH 43 SB

1444+00
1445+00
1446+00
1447+00
1448+00
1449+00
1450+00
1451+00
1452+00
1453+00
1454+00
1455+00
1456+00
1457+00
1458+00
1459+00

IH 43 NB

12' TYP

12' TYP

SPEED LIMIT 55

DIGITAL SPEED LIMIT SIGN ASSEMBLY SEE SPECIAL PROVISIONS

UNION PACIFIC RAILROAD

UNION PACIFIC RAILROAD

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 211	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (17)

PLOT DATE : 1/14/2021 8:20 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

MATCHLINE STA 1459+25.00

NOTE:
NO TRAFFIC CONTROL DEVICES ON THIS SHEET

N

R/L IH 43

IH 43 SB

1460+00 1461+00 1462+00 1463+00 1464+00 1465+00 1466+00 1467+00 1468+00 1469+00 1470+00 1471+00 1472+00 1473+00 1474+00

IH 43 NB

12' TYP

12' TYP

UNION PACIFIC RAILROAD

UNION PACIFIC

MATCHLINE STA 1474+50.00

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 212	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (18)

PLOT DATE : 1/14/2021 8:20 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

ROAD WORK
2 MILES AHEAD

FMS-6
SEE SIGN DETAIL
SIGN SHALL BE LEFT IN PLACE
FOR ALL STAGES AND AT THE
COMPLETION OF CONTRACT.

STA BACK = 1479+99.00
STA AHEAD = 1480+00.00

R/L IH 43

IH 43 SB

1475+00 1476+00 1477+00 1478+00 1479+00 1480+00 1481+00 1482+00 1483+00 1484+00 1485+00 1486+00 1487+00 1488+00 1489+00

IH 43 NB

12' TYP

12' TYP

RAILROAD

UNION PACIFIC RAILROAD

MATCHLINE STA 1474+50.00

MATCHLINE STA 1489+76.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 213	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (19)
PLOT DATE : 1/14/2021 8:21 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTE:
NO TRAFFIC CONTROL DEVICES ON THIS SHEET

N

MATCHLINE STA 1505+01.00

IH 43 SB

1490+00 1491+00 1492+00 1493+00 1494+00 1495+00 1496+00 1497+00 1498+00 1499+00 1500+00 1501+00 1502+00 1503+00 1504+00 1505

R/L IH 43

IH 43 NB

12' TYP

12' TYP

UNION PACIFIC RAILROAD

UNION PACIFIC RAILROAD

MATCHLINE STA 1489+76.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 214	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (20)

PLOT DATE : 1/14/2021 8:22 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

NOTE:
NO TRAFFIC CONTROL DEVICES ON THIS SHEET

N

MATCHLINE STA 1520+26.00

MH

IH 43 SB

+00 1506+00 1507+00 1508+00 1509+00 1510+00 1511+00 1512+00 1513+00 1514+00 1515+00 1516+00 1517+00 1518+00 1519+00 1520+00

R/L IH 43

IH 43 NB

12' TYP

12' TYP

UNION PACIFIC RAILROAD

UNION PACIFIC RAILROAD

MATCHLINE STA 1505+01.00

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 215	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (21)

PLOT DATE : 1/14/2021 8:23 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

NOTE:
NO TRAFFIC CONTROL DEVICES ON THIS SHEET

N

MATCHLINE STA 1535+51.00

2

RIPRAP
RIPRAP
INL
INL
W
IH 43 SB
1521+00
1522+00
1523+00
1524+00
1525+00
1526+00
1527+00
1528+00
1529+00
1530+00
1531+00
1532+00
1533+00
1534+00
1535+00
R/L IH 43
IH 43 NB
12' TYP
12' TYP
HIGHLAND RD
UNION PACIFIC RAILROAD
RIPRAP
NORTH LAKE SHORE DR

MATCHLINE STA 1520+26.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 216	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (22)

PLOT DATE : 1/14/2021 8:24 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 1550+76.00

R/L IH 43

IH 43 SB

1536+00 1537+00 1538+00 1539+00 1540+00 1541+00 1542+00 1543+00 1544+00 1545+00 1546+00 1547+00 1548+00 1549+00 1550+00

IH 43 NB

12' TYP

12' TYP

RIGHT LANE CLOSED 1/2 MILE

W20-5G

UNION PACIFIC RAILROAD

1600'

UNION PACIFIC RAILROAD

NORTH LAKE SHORE DR

MATCHLINE STA 1535+51.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 217	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (23)

PLOT DATE : 1/14/2021 8:24 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

IH 43 SB

1551+00 1552+00 1553+00 1554+00 1555+00 1556+00 1557+00 1558+00 1559+00 1560+00 1561+00 1562+00 1563+00 1564+00 1565+00 1566

R/L IH 43

IH 43 NB

SPEED LIMIT 55

DIGITAL SPEED LIMIT SIGN ASSEMBLY
SEE SPECIAL PROVISIONS

W04-2R

12' TYP

12' TYP

50' TYP SPACING

STA 1562+78.51
59' RT

UNION PACIFIC RAILROAD

UNION PACIFIC RAILROAD

1600'

1000'

720' TAPER

NORTH LAKE SHORE DR

MATCHLINE STA 1566+01.00

MATCHLINE STA 1550+76.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 218	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (24)

PLOT DATE : 1/14/2021 8:25 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

NOTE:
REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE EPOXY 4-INCH"

N

MATCHLINE STA 1581+26.00

R/L IH 43

IH 43 SB

+00 1567+00 1568+00 1569+00 1570+00 1571+00 1572+00 1573+00 1574+00 1575+00 1576+00 1577+00 1578+00 1579+00 1580+00 1581+00

IH 43 NB

12' TYP

PCMS

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

BEGIN CONSTRUCTION
STA 1578+00.00

UNION PACIFIC RAILROAD

STA 1569+98.51
47' RT

720' TAPER

800' BUFFER

MATCHLINE STA 1566+01.00

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 219	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (25)

PLOT DATE : 1/14/2021 8:26 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

NOTE:
REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE EPOXY 4-INCH"

N

MATCHLINE STA 1596+51.00

R/L IH 43

IH 43 SB

1582+00 1583+00 1584+00 1585+00 1586+00 1587+00 1588+00 1589+00 1590+00 1591+00 1592+00 1593+00 1594+00 1595+00 1596+00

IH 43 NB

12' TYP

LANE CLOSED
R11-2L
48"X30"

UNION PACIFIC RAILROAD

UNION PACIFIC RAILROAD

MATCHLINE STA 1581+26.00

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 220	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (26)

PLOT DATE : 1/14/2021 8:27 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

NOTE:
REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE EPOXY 4-INCH"

N

MATCHLINE STA 1596+51.00

MATCHLINE STA 1611+76.00

R/L IH 43

IH 43 SB

IH 43 NB

1597+00 1598+00 1599+00 1600+00 1601+00 1602+00 1603+00 1604+00 1605+00 1606+00 1607+00 1608+00 1609+00 1610+00 1611+00

12' TYP

LANE CLOSED
R11-2L
48"X30"

UNION PACIFIC RAILROAD

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 221	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (27)

PLOT DATE : 1/14/2021 8:27 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

NOTES:
REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE EPOXY 4-INCH"

SEE TRAFFIC CONTROL STAGE 1B FOR ADDITIONAL WORK IN THIS AREA.

N

R/L IH 43

IH 43 SB

1612+00 1613+00 1614+00 1615+00 1616+00 1617+00 1618+00 1619+00 1620+00 1621+00 1622+00 1623+00 1624+00 INL 1625+00 1626+00 1627

IH 43 NB

25' TYP SPACING

12' TYP

25' TYP SPACING

200' 200' 350' 200'

LANE CLOSED
R11-2L
48"X30"

EXIT
E5-1
48"X48"

LANE CLOSED
R11-2L
48"X30"

MATCHLINE STA 1611+76.00

MATCHLINE STA 1627+01.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 222	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (28)
PLOT DATE : 1/14/2021 8:28 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTES:

REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE EPOXY 4-INCH"

SEE TRAFFIC CONTROL STAGE 1B FOR ADDITIONAL WORK IN THIS AREA.

N

SB ENTRANCE RAMP

SB EXIT RAMP

RIPRAP

CTH C

R/L IH 43

IH 43 SB

+00 1628+00 INL 1629+00 1630+00 1631+00 1632+00 1633+00 1634+00 1635+00 1636+00 1637+00 1638+00 1639+00 1640+00 1641+00 1642+00

IH 43 NB

12' TYP

NB EXIT RAMP

NB ENTRANCE RAMP

LANE CLOSED
R11-2L
48"X30"

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

MH

MH

MATCHLINE STA 1627+01.00

MATCHLINE STA 1642+26.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 223	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (29)

PLOT DATE : 1/14/2021 8:29 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE:
SEE TRAFFIC CONTROL STAGE 1B FOR ADDITIONAL WORK IN THIS AREA.

N

MATCHLINE STA 1657+51.00

MATCHLINE STA 1642+26.00

R/L IH 43

SIGN

IH 43 SB

1643+00 1644+00 1645+00 1646+00 1647+00 1648+00 1649+00 1650+00 1651+00 1652+00 1653+00 1654+00 1655+00 1656+00 1657+00

IH 43 NB

12' TYP

12' TYP

12' TYP

50' TYP SPACING

25' TYP SPACING

SPEED LIMIT 55

DIGITAL SPEED LIMIT SIGN ASSEMBLY
SEE SPECIAL PROVISIONS

W04-1R

500'

600'

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 224	E

FILE NAME : C:\DOT WORK IH 43 WZ\025301-TC.DWG
LAYOUT NAME - TC1 - (30)

PLOT DATE : 1/18/2021 4:28 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

NOTES:

REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE EPOXY 4-INCH"

SEE TRAFFIC CONTROL STAGE 1B FOR ADDITIONAL WORK IN THIS AREA.

N

MATCHLINE STA 1672+76.00

2

R/L IH 43

IH 43 SB

1658+00 1659+00 1660+00 1661+00 1662+00 1663+00 INL 1664+00 1665+00 1666+00 1667+00 1668+00 1669+00 1670+00 1671+00 1672+00

IH 43 NB

12' TYP

25' TYP SPACING

STA 1660+48
45' RT

300' TAPER

LANE CLOSED
R11-2L
48"X30"

STA 1657+48
57' RT

MATCHLINE STA 1657+51.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 225	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (31)

PLOT DATE : 1/14/2021 8:30 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE:
REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE EPOXY 4-INCH"

2

MATCHLINE STA 1688+01.00

LAKEFIELD RD

N

MH

RIPRAP

R/L IH 43

IH 43 SB

1673+00 1674+00 1675+00 1676+00 1677+00 1678+00 1679+00 1680+00 1681+00 1682+00 1683+00 1684+00 1685+00 1686+00 1687+00 1688

IH 43 NB

12' TYP

LANE CLOSED
R11-2L
48"X30"

ULAO CREEK

W

MATCHLINE STA 1672+76.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 226	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (32)

PLOT DATE : 1/14/2021 8:31 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTES:
REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE EPOXY 4-INCH"

N

MATCHLINE STA 1703+26.00

MATCHLINE STA 1688+01.00

R/L IH 43

IH 43 SB

+00 1689+00 1690+00 1691+00 1692+00 1693+00 1694+00 1695+00 1696+00 1697+00 1698+00 1699+00 1700+00 1701+00 1702+00 1703+00

IH 43 NB

12' TYP

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

STORAGE

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 227	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (33)

PLOT DATE : 1/14/2021 8:32 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

NOTE:
REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE EPOXY 4-INCH"

MATCHLINE STA 1718+51.00

R/L IH 43

IH 43 SB

1704+00 1705+00 1706+00 1707+00 1708+00 1709+00 1710+00 1711+00 1712+00 1713+00 1714+00 1715+00 1716+00 1717+00 1718+00

IH 43 NB

12' TYP

LANE CLOSED
R11-2L
48"X30"

MATCHLINE STA 1703+26.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 228	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (34)
PLOT DATE : 1/14/2021 8:33 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTE:
REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE EPOXY 4-INCH"

N

MATCHLINE STA 1733+76.00

MATCHLINE STA 1718+51.00

R/L IH 43

IH 43 SB

IH 43 NB

RIPRAP

1719+00 1720+00 1721+00 1722+00 1723+00 1724+00 1725+00 1726+00 1727+00 1728+00 1729+00 1730+00 1731+00 1732+00 1733+00

12' TYP

LANE CLOSED
R11-2L
48"X30"

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 229	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (35)

PLOT DATE : 1/14/2021 8:34 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

NOTE:
REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE EPOXY 4-INCH"

N

FALLS RD

R/L IH 43

IH 43 SB

1734+00 1735+00 1736+00 1737+00 1738+00 1739+00 1740+00 1741+00 1742+00 1743+00 1744+00 1745+00 1746+00 1747+00 1748+00 1749

IH 43 NB

LANE CLOSED
R11-2L
48"X30"

12' TYP

INL

INL

MATCHLINE STA 1733+76.00

MATCHLINE STA 1749+01.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 230	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (36)

PLOT DATE : 1/14/2021 8:34 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

NOTES:

REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE EPOXY 4-INCH"

SEE TRAFFIC CONTROL STAGE 1C FOR ADDITIONAL WORK IN THIS AREA.

N

MATCHLINE STA 1764+26.00

2

MH
MH
MH

FOOTBRIDGE

R/L IH 43

IH 43 SB

+00 1750+00 1751+00 1752+00 1753+00 1754+00 1755+00 1756+00 1757+00 1758+00 1759+00 1760+00 1761+00 1762+00 1763+00 1764+00

IH 43 NB

12' TYP

LANE CLOSED
R11-2L
48"X30"

25' TYP SPACING

200'

STA 1759+81
47' RT

200' TAPER

STA 1761+81
59' RT

MATCHLINE STA 1749+01.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 231	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (37)

PLOT DATE : 1/14/2021 8:35 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

NOTES:
REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE EPOXY 4-INCH"

SEE TRAFFIC CONTROL STAGE 1C FOR ADDITIONAL WORK IN THIS AREA.

N

LOADING DOCK

RIPRAP

RIPRAP

MH

SB ENTRANCE RAMP

MATCHLINE STA 1779+51.00

2

R/L IH 43

IH 43 SB

1765+00 1766+00 1767+00 1768+00 1769+00 1770+00 1771+00 1772+00 1773+00 1774+00 1775+00 1776+00 1777+00 1778+00 1779+00

IH 43 NB

25' TYP SPACING

200'

EXIT

E5-1
48"X48"

12' TYP

12' TYP

LANE CLOSED

R11-2L
48"X30"

NB EXIT RAMP

END ROAD WORK

G20-2A
48"X24"

MATCHLINE STA 1764+26.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 232	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301-TC.DWG
LAYOUT NAME - TC1 - (38)

PLOT DATE : 1/14/2021 8:36 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE:
REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE EPOXY 4-INCH"

N

STH 60

SB EXIT RAMP

R/L IH 43

IH 43 SB

1780+00 1781+00 1782+00 1783+00 1784+00 1785+00 1786+00 1787+00 1788+00 1789+00 1790+00 1791+00 1792+00 1793+00 1794+00

IH 43 NB

12' TYP

END PROJECT
STA 1787+00.00

END
ROAD WORK
G20-2A
48"x24"

NB ENTRANCE RAMP

MATCHLINE STA 1779+51.00

RIPRAP

RIPRAP

RIPRAP

RIPRAP

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1	SHEET 233	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\025301-TC.DWG
LAYOUT NAME - TC1 - (39)

PLOT DATE : 4/1/2021 8:33 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 1261+00.00

BROWN DEER RD/STH 100

R/L IH 43

IH 43 SB

IH 43 NB

1246+00 1247+00 1248+00 1249+00 1250+00 1251+00 1252+00 1253+00 1254+00 1255+00 1256+00 1257+00 1258+00 1259+00 1260+00 1261

RAMP CLOSED AHEAD
W20-53A
L.I.P.**

W04-1R
L.I.P.**

12' MIN
12' MIN

1120'

NB ENTRANCE RAMP
NB EXIT RAMP

NB EXIT RAMP
NB ENTRANCE RAMP

ROAD WORK AHEAD
W20-1A

W04-1R

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1A - DAYTIME CONFIGURATION	SHEET 234	E

FILE NAME : C:\DOT WORK IH 43 WZ\025301A-TC.DWG
LAYOUT NAME - TC1 - (4)

PLOT DATE : 1/13/2021 10:24 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 1276+25.00

MATCHLINE STA 1261+00.00

BEGIN PROJECT
STA 1271+08.37

R/L IH 43

12' MIN

12' MIN

IH 43 SB

IH 43 NB

12' MIN

50' TYP SPACING

12' MIN

MARKING LINE 4-INCH EPOXY (WHITE)

1261+00 1262+00 1263+00 1264+00 1265+00 1266+00 1267+00 1268+00 1269+00 1270+00 1271+00 1272+00 1273+00 1274+00 1275+00 1276+00

W
Port Washington Rd
½ MILE
EXIT ONLY

RAMP CLOSED

COVER OVERHEAD SIGN
G20-63
108"X24"
SIGN COVER SHALL BE LEFT IN PLACE FOR ALL STAGES AND AT THE COMPLETION OF CONTRACT

W10-4R

RAMP CLOSED
1000 FT
W20-5aR
L.I.P.**

STA 1271+12
52' RT

STA 1274+12
72' RT

360' TAPER

1120'

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1A - DAYTIME CONFIGURATION	SHEET 235	E

FILE NAME : C:\DOT WORK IH 43 WZ\025301A-TC.DWG
LAYOUT NAME - TC1 - (5)
PLOT DATE : 1/13/2021 10:25 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

R/L IH 43

12' MIN

12' MIN

IH 43 SB

1277+00 1278+00 1279+00 1280+00 SLAB 1281+00 1282+00 1283+00 1284+00 1285+00 1286+00 1287+00 1288+00 1289+00 1290+00 1291+00

IH 43 NB

50' TYP SPACING

12' MIN

12' MIN

25' TYP SPACING

MARKING LINE 4-INCH EPOXY (WHITE)

COVER OVERHEAD SIGN PRIOR TO REMOVAL

RAMP CLOSED

R11-2R 48"X30"

RAMP CLOSED

R11-2R 48"X30"

COVER EXISTING EXIT SIGN

NB EXIT RAMP

NEW TRAFFIC PATTERN AHEAD

WO23-2

COVER OVERHEAD SIGNS SIGN COVER SHALL BE LEFT IN PLACE FOR ALL STAGES AND AT THE COMPLETION OF CONTRACT

PORT WASHINGTON RD

NEW TRAFFIC PATTERN AHEAD

WO23-2

MATCHLINE STA 1276+25.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1A - DAYTIME CONFIGURATION	SHEET 236	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\025301A-TC.DWG
LAYOUT NAME - TC1 - (6)
PLOT DATE : 3/31/2021 10:20 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 1550+76.00

N

R/L IH 43

IH 43 SB

1536+00 1537+00 1538+00 1539+00 1540+00 1541+00 1542+00 1543+00 1544+00 1545+00 1546+00 1547+00 1548+00 1549+00 1550+00

IH 43 NB

12' TYP

12' TYP

ROAD WORK 1 MILE

W20-1F

UNION PACIFIC RAILROAD

UNION PACIFIC RAILROAD

NORTH LAKE SHORE DR

2600'

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 237	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301B-TC.DWG
LAYOUT NAME - TC1 - (23)

PLOT DATE : 1/12/2021 8:14 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 1566+01.00

N

IH 43 SB

1551+00 1552+00 1553+00 1554+00 1555+00 1556+00 1557+00 1558+00 1559+00 1560+00 1561+00 1562+00 1563+00 1564+00 1565+00 1566

R/L IH 43

IH 43 NB

12' TYP

12' TYP

UNION PACIFIC RAILROAD

UNION PACIFIC RAILROAD

NORTH LAKE SHORE DR

MATCHLINE STA 1550+76.00

2600'

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 238	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301B-TC.DWG
LAYOUT NAME - TC1 - (24)

PLOT DATE : 1/12/2021 8:15 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA 1581+26.00

R/L IH 43

IH 43 SB

+00 1567+00 1568+00 1569+00 1570+00 1571+00 1572+00 1573+00 1574+00 1575+00 1576+00 1577+00 1578+00 1579+00 1580+00 1581+00

IH 43 NB

12' TYP

12' TYP

RIGHT LANE CLOSED 1/2 MILE
W20-5G

SPEED LIMIT 55
W03-5

SPEED LIMIT 55
R2-1
48" X60"

UNION PACIFIC RAILROAD

400'

700'

500'

2600'

1600'

MATCHLINE STA 1566+01.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 239	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301B-TC.DWG
LAYOUT NAME - TC1 - (25)

PLOT DATE : 1/12/2021 8:16 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA 1596+51.00

R/L IH 43

IH 43 SB

1582+00 1583+00 1584+00 1585+00 1586+00 1587+00 1588+00 1589+00 1590+00 1591+00 1592+00 1593+00 1594+00 1595+00 1596+00

IH 43 NB

12' TYP

12' TYP

50' TYP SPACING

W04-2R

RAMP CLOSED AHEAD

W20-53A

UNION PACIFIC RAILROAD

UNION PACIFIC RAILROAD

MATCHLINE STA 1581+26.00

500'

1600'

1000'

STA 1594+96.92
58' RT

720' TAPER

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 240	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301B-TC.DWG
LAYOUT NAME - TC1 - (26)

PLOT DATE : 1/12/2021 8:17 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

MATCHLINE STA 1596+51.00

MATCHLINE STA 1611+76.00

N

R/L IH 43

IH 43 SB

IH 43 NB

1597+00 1598+00 1599+00 1600+00 1601+00 1602+00 1603+00 1604+00 1605+00 1606+00 1607+00 1608+00 1609+00 1610+00 1611+00

50' TYP SPACING

12' TYP

LANE CLOSED
R11-2L
48"X30"

RAMP CLOSED 1000 FT
W20-5aL

UNION PACIFIC RAILROAD

STA 1602+13.23
47' RT

720' TAPER

800' BUFFER

1000'

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 241	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301B-TC.DWG
LAYOUT NAME - TC1 - (27)

PLOT DATE : 1/12/2021 8:17 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTES:

REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE 4-INCH EPOXY"

CTH C AND STH 60 EXIT RAMPS SHALL NOT BE CLOSED AT THE
SAME TIME.

N

R/L IH 43

IH 43 SB

1612+00 1613+00 1614+00 1615+00 1616+00 1617+00 1618+00 1619+00 1620+00 1621+00 1622+00 1623+00 1624+00 INL 1625+00 1626+00 1627

IH 43 NB

PCMS

LANE CLOSED
R11-2L
48"X30"

RAMP CLOSED
R11-2R
48"X30"

12' TYP

25' TYP SPACING

RAMP CLOSED
R11-2R
48"X30"

LANE CLOSED
R11-2L
48"X30"

MATCHLINE STA 1611+76.00

MATCHLINE STA 1627+01.00

1000'

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 242	E

FILE NAME : C:\DOT WORK IH 43 WZ\025301B-TC.DWG
LAYOUT NAME - TC1 - (28)
PLOT DATE : 1/13/2021 10:38 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTES:

CTH C AND STH 60 EXIT RAMPS SHALL NOT BE CLOSED AT THE SAME TIME.

FOR ENTRANCE RAMP CLOSURE, PLACE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH DETAIL "TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE".

N

SB ENTRANCE RAMP

SB EXIT RAMP

CTH C

RIPRAP

R/L IH 43

IH 43 SB

+00 1628+00 INL 1629+00 1630+00 1631+00 1632+00 1633+00 1634+00 1635+00 1636+00 1637+00 1638+00 1639+00 1640+00 1641+00 1642+00

IH 43 NB

12' TYP

NB EXIT RAMP

NB ENTRANCE RAMP

LANE CLOSED
R11-2L
48"X30"

RAMP CLOSED
R11-2R
48"X30"

PCMS

MH

MH

MATCHLINE STA 1627+01.00

MATCHLINE STA 1642+26.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 243	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301B-TC.DWG
LAYOUT NAME - TC1 - (29)

PLOT DATE : 1/12/2021 8:19 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

NOTE:
REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE 4-INCH EPOXY"

N

MATCHLINE STA 1657+51.00

R/L IH 43

SIGN

IH 43 SB

1643+00 1644+00 1645+00 1646+00 1647+00 1648+00 1649+00 1650+00 1651+00 1652+00 1653+00 1654+00 1655+00 1656+00 1657+00

IH 43 NB

12' TYP

12' TYP

SPEED LIMIT 55
R2-1
48"X60"

LANE CLOSED
R11-2L
48"X30"

MATCHLINE STA 1642+26.00

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 244	E

FILE NAME : C:\DOT WORK IH 43 WZ\025301B-TC.DWG
LAYOUT NAME - TC1 - (30)

PLOT DATE : 1/13/2021 11:07 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE:
REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE 4-INCH EPOXY"

N

MATCHLINE STA 1672+76.00

R/L IH 43

IH 43 SB

1658+00 1659+00 1660+00 1661+00 1662+00 1663+00 INL 1664+00 1665+00 1666+00 1667+00 1668+00 1669+00 1670+00 1671+00 1672+00

IH 43 NB

12' TYP

12' TYP

SPEED LIMIT 70
R2-1
48"X60"

END ROAD WORK
G20-2A
48"X24"

MATCHLINE STA 1657+51.00

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1B	SHEET 245	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301B-TC.DWG
LAYOUT NAME - TC1 - (31)
PLOT DATE : 1/12/2021 8:21 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 1703+26.00

N

R/L IH 43

IH 43 SB

1688+00 1689+00 1690+00 1691+00 1692+00 1693+00 1694+00 1695+00 1696+00 1697+00 1698+00 1699+00 1700+00 1701+00 1702+00 1703+00

IH 43 NB

12' TYP

12' TYP

ROAD WORK 1 MILE

W20-1F

STORAGE

2600'

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1C	SHEET 246	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301B-TC.DWG
LAYOUT NAME - TC1 - (33)

PLOT DATE : 1/12/2021 8:21 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA 1718+51.00

R/L IH 43

IH 43 SB

1704+00 1705+00 1706+00 1707+00 1708+00 1709+00 1710+00 1711+00 1712+00 1713+00 1714+00 1715+00 1716+00 1717+00 1718+00

IH 43 NB

12' TYP

12' TYP

RIGHT LANE CLOSED 1/2 MILE

W20-5G

SPEED LIMIT 55

W03-5

400'

700'

2600'

1600'

MATCHLINE STA 1703+26.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1C	SHEET 247	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301B-TC.DWG
LAYOUT NAME - TC1 - (34)

PLOT DATE : 1/12/2021 8:22 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

MATCHLINE STA 1733+76.00

N

R/L IH 43

IH 43 SB

RIPRAP

1719+00 1720+00 1721+00 1722+00 1723+00 1724+00 1725+00 1726+00 1727+00 1728+00 1729+00 1730+00 1731+00 1732+00 1733+00

IH 43 NB

SPEED LIMIT 55

R2-1 48"X60"

12' TYP

12' TYP

WOLAK II

700'

500'

1600'

1000'

MATCHLINE STA 1718+51.00

2

2

N

FALLS RD

R/L IH 43

IH 43 SB

1734+00 1735+00 1736+00 1737+00 1738+00 1739+00 1740+00 1741+00 1742+00 1743+00 1744+00 1745+00 1746+00 1747+00 1748+00 1749

IH 43 NB

50' TYP SPACING

RAMP CLOSED AHEAD

W20-53A

50' TYP SPACING

12' TYP

25'

500'

STA 1740+04.95 59' RT

STA 1747+29.39 47' RT

1000'

720' TAPER

800' BUFFER

MATCHLINE STA 1733+76.00

MATCHLINE STA 1749+01.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1C	SHEET 249	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301B-TC.DWG
LAYOUT NAME - TC1 - (36)

PLOT DATE : 1/12/2021 8:24 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

NOTE:
REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING
USE ITEM "MARKING LINE 4-INCH EPOXY"

N

MATCHLINE STA 1764+26.00

2

FOOTBRIDGE

MH

MH

MH

R/L IH 43

IH 43 SB

+00 1750+00 1751+00 1752+00 1753+00 1754+00 1755+00 1756+00 1757+00 1758+00 1759+00 1760+00 1761+00 1762+00 1763+00 1764+00

IH 43 NB

LANE CLOSED

R11-2L
48"X30"

12" TYP

RAMP CLOSED 1000 FT

W20-53C

PCMS

LANE CLOSED

R11-2L
48"X30"

500'

1000'

800' BUFFER

MATCHLINE STA 1749+01.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1C	SHEET 250	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025301B-TC.DWG
LAYOUT NAME - TC1 - (37)

PLOT DATE : 1/12/2021 8:25 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTES:

REPLACE NB WHITE EDGELINE UPON COMPLETION OF ASPHALT PAVING USE ITEM "MARKING LINE 4-INCH EPOXY"

CTH C AND STH 60 EXIT RAMPS SHALL NOT BE CLOSED AT THE SAME TIME.

N

LOADING DOCK

RIPRAP

RIPRAP

MH

SB ENTRANCE RAMP

R/L IH 43

IH 43 SB

1765+00 1766+00 1767+00 1768+00 1769+00 1770+00 1771+00 1772+00 1773+00 1774+00 1775+00 1776+00 1777+00 1778+00 1779+00

IH 43 NB

RAMP CLOSED
R11-2R
48"X30"

25' TYP SPACING

RAMP CLOSED
R11-2R
48"X30"

12' TYP

LANE CLOSED
R11-2L
48"X30"

NB EXIT RAMP

1000'

MATCHLINE STA 1764+26.00

MATCHLINE STA 1779+51.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1C	SHEET 251	E

FILE NAME : C:\DOT WORK IH 43 WZ\025301B-TC.DWG
LAYOUT NAME - TC1 - (38)

PLOT DATE : 1/13/2021 11:09 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

STH 60

SB EXIT RAMP

R/L IH 43

IH 43 SB

1780+00 1781+00 1782+00 1783+00 1784+00 1785+00 1786+00 1787+00 1788+00 1789+00 1790+00 1791+00 1792+00 1793+00 1794+00

IH 43 NB

12' TYP

END PROJECT
STA 1787+00.00

END
ROAD WORK
G20-2A
48"X24"

NB ENTRANCE RAMP

MATCHLINE STA 1779+51.00

RIPRAP

RIPRAP

RIPRAP

RIPRAP

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 1C	SHEET 252	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\025301B-TC.DWG
LAYOUT NAME - TC1 - (39)

PLOT DATE : 4/1/2021 8:45 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

BROWN DEER RD/STH 100

MATCHLINE STA 1261+00.00

R/L IH 43

IH 43 SB

IH 43 NB

1246+00 1247+00 1248+00 1249+00 1250+00 1251+00 1252+00 1253+00 1254+00 1255+00 1256+00 1257+00 1258+00 1259+00 1260+00 1261

ROAD WORK AHEAD W20-1A

RAMP CLOSED AHEAD W20-53A L.I.P.**

W04-1R L.I.P.**

RIGHT SHOULDER CLOSED AHEAD W21-5B

1120'

1600'

NB ENTRANCE RAMP

NB EXIT RAMP

NB EXIT RAMP

NB ENTRANCE RAMP

ROAD WORK AHEAD W20-1A

W04-5 48"X48" L.I.P.

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 253	E

2

2

MATCHLINE STA 1276+25.00

N

BEGIN PROJECT
STA 1271+08.37

END
ROAD WORK
G20-2A
48"X24"

1270+55.89, -41.65'

12' MIN

12' MIN

R/L IH 43

2' SHY

IH 43 SB

+00 1262+00 1263+00 1264+00 1265+00 1266+00 1267+00 1268+00 1269+00 1270+00 1271+00 1272+00 1273+00 1274+00 1275+00 1276+00

1274+70.35, 43.95'

1275+90.19, 48.95'

IH 43 NB

12' MIN

12' MIN

8:1 TAPER

50' TYP SPACING

2' SHY

PCMS

MARKING LINE 4-INCH EPOXY

TEMPORARY CRASH CUSHION

1274+16.27, 68.43'

W05-52R
18"X54"

W

Port Washington
Rd
½ MILE

EXIT ⇩ ONLY

RAMP CLOSED

COVER OVERHEAD SIGN
G20-63
108"X24"
SIGN COVER SHALL BE LEFT IN PLACE FOR ALL STAGES AND AT THE COMPLETION OF CONTRACT

W04-2R

L.I.P.

RAMP
CLOSED
1000 FT

W20-53C

L.I.P.**

1271+11.76, 52.25'

STA 1271+12
52' RT

STA 1274+72
44' RT

360' TAPER

1120'

MATCHLINE STA 1261+00.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 254	E

FILE NAME : C:\DOT WORK IH 43 WZ\025302-TC.DWG
LAYOUT NAME - TC1 - (5)

PLOT DATE : 1/13/2021 4:26 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

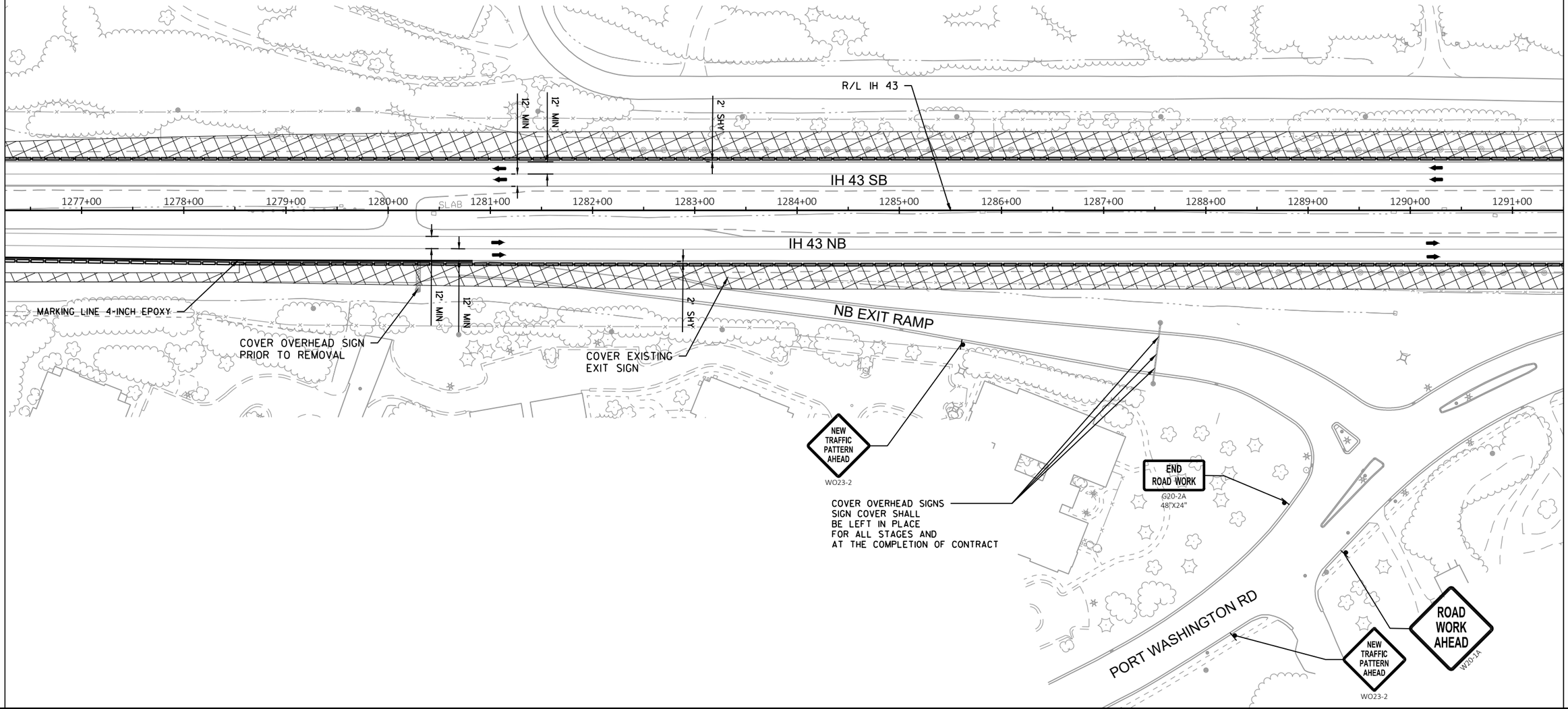
WISDOT/CADDS SHEET 42

2

2

MATCHLINE STA 1291+50.00

MATCHLINE STA 1276+25.00



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 255	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\025302-TC.DWG
LAYOUT NAME - TC1 - (6)

PLOT DATE : 3/31/2021 10:32 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

N PHEASANT LN

N PHEASANT LN

SB ENTRANCE RAMP

RTL IH 43

12' MIN

12' MIN

2' SHY

IH 43 SB

1292+00 1293+00 1294+00 1295+00 1296+00 1297+00 1298+00 1299+00 1300+00 1301+00 1302+00 1303+00 1304+00 1305+00 1306+00

IH 43 NB

12' MIN

12' MIN

2' SHY

PORT WASHINGTON RD

50' TYP SPACING

NEW TRAFFIC PATTERN AHEAD

W023-2

LANE CLOSED

R11-2L

48"X30"

STA 1303+99 95' RT

25' TYP SPACING

245' TAPER

STA 1306+50 115' RT

350'

MATCHLINE STA 1291+50.00

MATCHLINE STA 1306+75.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 256	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\025302-TC.DWG
LAYOUT NAME - TC1 - (7)

PLOT DATE : 3/31/2021 12:17 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

COUNTY LINE RD

TYPE III BARRICADES LEFT IN PLACE
INSTALLED IN PREVIOUS STAGE

SEE DETOUR PLAN FOR
ADDITIONAL SIGNING

RAMP
CLOSED
R11-2R
48"X30"
L.I.P.**

PORT WASHINGTON LN

SB ENTRANCE RAMP

NO WORK STA 1310+00.00 TO
STA 1312+00.00

SLAB

2' SHY

12' MIN

12' MIN

R/L IH 43

IH 43 SB

1307+00 1308+00 1309+00 1310+00 1311+00 1312+00 1313+00 1314+00 1315+00 1316+00 1317+00 1318+00 1319+00 1320+00 1321+00

SLAB

IH 43 NB

NO WORK STA 1310+00.00 TO
STA 1312+00.00

W04-2R

RIGHT LANE
CLOSED
1/2 MILE
W20-5G

SPEED
LIMIT
55
R2-1
48"X60"

ROAD
WORK
1 MILE
W20-1F

PORT WASHINGTON RD

END
ROAD WORK
G20-2A
48"X24"

350'

350'

350'

PORT WASHINGTON RD

MATCHLINE STA 1306+75.00

MATCHLINE STA 1322+00.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 257	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\025302-TC.DWG
LAYOUT NAME - TC1 - (8)

PLOT DATE : 3/3/2021 3:42 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

PORT WASHINGTON LN

NO WORK STA 1329+24.89 TO
STA 1332+25.32

12' MIN

12' MIN

R/L IH 43

IH 43 SB

SLAB

1323+00

1324+00

1325+00

1326+00

1327+00

1328+00

1329+00

1330+00

1331+00

1332+00

1333+00

1334+00

1335+00

1336+00

1337+00

PORT WASHINGTON RD

IH 43 NB

12' MIN

12' MIN

NO WORK STA 1327+75.32 TO
STA 1330+74.89

KATHERINE DR

FISH CREEK

MATCHLINE STA 1322+00.00

MATCHLINE STA 1337+25.00

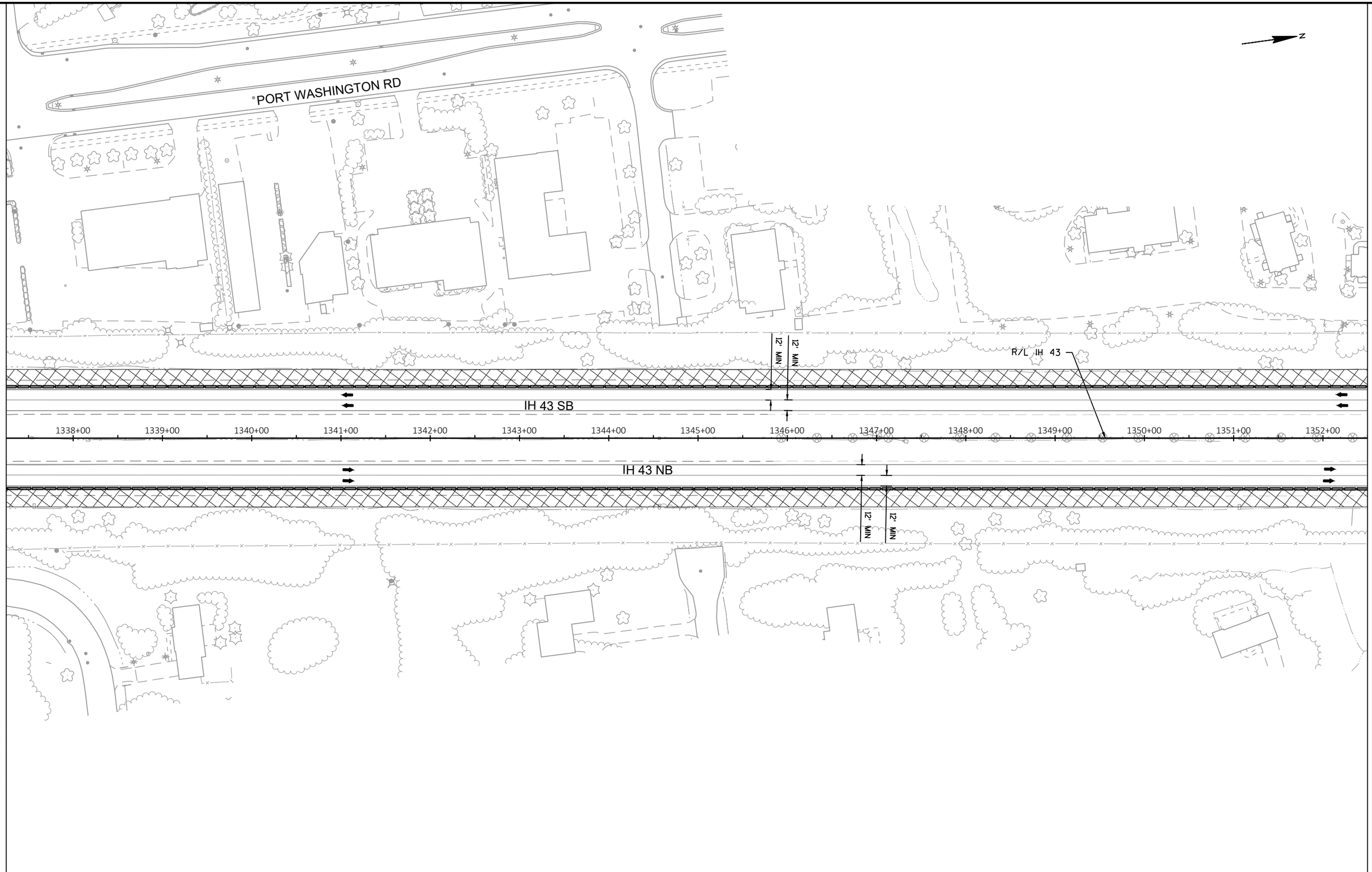
PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 258	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\025302-TC.DWG
LAYOUT NAME - TC1 - (9)

PLOT DATE : 3/3/2021 3:43 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 259	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025302-TC.DWG
LAYOUT NAME - TC1 - (10)

PLOT DATE : 1/12/2021 8:04 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

MATCHLINE STA 1367+75.00

2

N

DONGES BAY RD

TEMPORARY CRASH CUSHION

1367+57.23, -63.86'

PCMS

WO5-52R
18"X54"

1367+06.91, -57.57'

8:1 TAPER

FLAG

12' MIN

12' MIN

R/L IH 43

IH 43 SB

1353+00 1354+00 1355+00 1356+00 1357+00 1358+00 1359+00 1360+00 1361+00 1362+00 1363+00 1364+00 1365+00 1366+00 1367+00

IH 43 NB

12' MIN

12' MIN

MATCHLINE STA 1352+50.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 260	E

FILE NAME : C:\DOT WORK IH 43 WZ\025302-TC.DWG
LAYOUT NAME - TC1 - (11)

PLOT DATE : 1/13/2021 11:56 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

MATCHLINE STA 1367+75.00

MATCHLINE STA 1383+00.00

2

N

500' BUFFER

200' TAPER

500'

1000'

STA 1372+69
57' RT

50' TYP
SPACING

STA 1374+70
61' RT

12' MIN

12' MIN

RIGHT
SHOULDER
CLOSED

W21-5R

IH 43 SB

1368+00 1369+00 1370+00 1371+00 1372+00 1373+00 1374+00 1375+00 1376+00 1377+00 1378+00 1379+00 1380+00 1381+00 1382+00

IH 43 NB

1370+06.24, 57.59'

END CONSTRUCTION
STA 1367+92.50

SPEED
LIMIT
55

DIGITAL SPEED LIMIT SIGN ASSEMBLY
SEE SPECIAL PROVISIONS

SEE STAGE 1 FOR
NORTHBOUND TRAFFIC CONTROL
FROM STA 1383+00 TO STA 1787+00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 261	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\025302-TC.DWG
LAYOUT NAME - TC1 - (12)

PLOT DATE : 4/1/2021 8:47 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

MATCHLINE STA 1383+00.00

MATCHLINE STA 1398+25.00

2

N

1600'

500'

700'

1000'

RIGHT SHOULDER CLOSED AHEAD

W21-5B

SPEED LIMIT 55

R2-1 48"X60"

12' MIN

12' MIN

IH 43 SB

1384+00 1385+00 1386+00 1387+00 1388+00 1389+00 1390+00 1391+00 1392+00 1393+00 1394+00 1395+00 1396+00 1397+00 1398+00

IH 43 NB

R/L IH 43

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 262	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025302-TC.DWG
LAYOUT NAME - TC1 - (13)

PLOT DATE : 1/12/2021 8:06 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

700'

400'

SPEED LIMIT 55

W13-5

ROAD WORK AHEAD

W20-1A

12' MIN

12' MIN

IH 43 SB

SB ENTRANCE RAMP

1399+00

1400+00

1401+00

1402+00

1403+00

1404+00

1405+00

1406+00

1407+00

1408+00

1409+00

1410+00

1411+00

1412+00

1413+00

IH 43 NB

R/L IH 43

NB EXIT RAMP

MATCHLINE STA 1398+25.00

MATCHLINE STA 1413+50.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 2	SHEET 263	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\025302-TC.DWG
LAYOUT NAME - TC1 - (14)

PLOT DATE : 1/12/2021 8:07 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

BROWN DEER RD/STH 100

MATCHLINE STA 1261+00.00

R/L IH 43

IH 43 SB

IH 43 NB

1246+00 1247+00 1248+00 1249+00 1250+00 1251+00 1252+00 1253+00 1254+00 1255+00 1256+00 1257+00 1258+00 1259+00 1260+00

RAMP CLOSED AHEAD
W20-53A
L.I.P.**

W04-1R
L.I.P.**

W04-5
48"X48"
L.I.P.**

NB ENTRANCE RAMP

NB EXIT RAMP

NB EXIT RAMP

NB ENTRANCE RAMP

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 3	SHEET 264	E

2

2

MATCHLINE STA 1276+25.00

MATCHLINE STA 1261+00.00

BEGIN PROJECT
STA 1271+08.37

CONCRETE BARRIER TEMPORARY PRECAST
LEFT IN PLACE (TYP)

2' TYP
(BACK OF BARRIER TO
EDGE OF PAVEMENT)

R/L IH 43

1274+00.00, -56.53'

MARKING LINE EPOXY 4-INCH (WHITE)

12' MIN

12' MIN

IH 43 SB

+00 1262+00 1263+00 1264+00 1265+00 1266+00 1267+00 1268+00 1269+00 1270+00 1271+00 1272+00 1273+00 1274+00 1275+00 1276+00

TEMPORARY CRASH CUSHION
LEFT IN PLACE

IH 43 NB

12' MIN

12' MIN

1276+00.00, 68.40'

W
Port Washington
Rd
½ MILE
EXIT ONLY

COVER OVERHEAD SIGN
G20-63
108"X24"
SIGN COVER SHALL BE LEFT IN PLACE
FOR ALL STAGES AND AT THE
COMPLETION OF CONTRACT

RAMP CLOSED

W04-2R
L.I.P.**

RAMP
CLOSED
1000 FT

W20-5R
L.I.P.**

W05-52R
18"X54"
L.I.P.

STA 1271+12
52' RT

360' TAPER

STA 1276+00
68' RT

CONCRETE BARRIER TEMPORARY PRECAST
LEFT IN PLACE (TYP)

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 3	SHEET 265	E

FILE NAME : C:\DOT WORK IH 43 WZ\025303-TC.DWG
LAYOUT NAME - TC1 - (5)

PLOT DATE : 1/13/2021 4:38 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

MATCHLINE STA 1291+50.00

TRAFFIC CONTROL DRUMS LEFT IN PLACE

1' TYP (BACK OF BARRIER TO EDGE OF PAVEMENT)

12' MIN

12' MIN

MARKING LINE EPOXY 4-INCH (WHITE)

R/L IH 43

CONCRETE BARRIER TEMPORARY PRECAST LEFT IN PLACE (TYP)

1' TYP (BACK OF BARRIER TO EDGE OF PAVEMENT)

IH 43 SB

1277+00 1278+00 1279+00 1280+00 SLAB 1281+00 1282+00 1283+00 1284+00 1285+00 1286+00 1287+00 1288+00 1289+00 1290+00 1291+00

IH 43 NB

12' MIN

12' MIN

1279+19.90, 69.53'

1282+50.00, 75.00

NB EXIT RAMP

1287+30.02, 75.00

1' TYP (BACK OF BARRIER TO EDGE OF PAVEMENT)

MARKING LINE EPOXY 4-INCH (WHITE)

CONCRETE BARRIER TEMPORARY PRECAST LEFT IN PLACE (TYP)

TRAFFIC CONTROL DRUMS LEFT IN PLACE

REMOVE SIGNAL AHEAD SIGN AFTER COVERING TRAFFIC SIGNAL HEADS

NEW TRAFFIC PATTERN AHEAD

W023-2

REMOVE AFTER COVERING TRAFFIC SIGNAL HEADS

COVER OVERHEAD SIGNS SIGN COVER SHALL BE LEFT IN PLACE FOR ALL STAGES AND AT THE COMPLETION OF CONTRACT

PORT WASHINGTON RD

NEW TRAFFIC PATTERN AHEAD

W023-2

REMOVE AFTER COVERING TRAFFIC SIGNAL HEADS

REMOVE SIGNAL AHEAD SIGN AFTER COVERING TRAFFIC SIGNAL HEADS

MATCHLINE STA 1276+25.00

2

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 3	SHEET 266	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\025303-TC.DWG
LAYOUT NAME - TC1 - (6)

PLOT DATE : 3/31/2021 10:47 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

TRAFFIC CONTROL DRUMS LEFT IN PLACE

MARKING LINE EPOXY 4-INCH (WHITE)

CONCRETE BARRIER TEMPORARY PRECAST
LEFT IN PLACE (TYP)

N PHEASANT LN

1' TYP
(BACK OF BARRIER TO
EDGE OF PAVEMENT)

R/L IH 43

12' MIN

12' MIN

N PHEASANT LN

SB ENTRANCE RAMP

IH 43 SB

1292+00 1293+00 1294+00 1295+00 1296+00 1297+00 1298+00 1299+00 1300+00 1301+00 1302+00 1303+00 1304+00 1305+00 1306+00

MATCHLINE STA 1306+75.00

1294+50.00, 64.00'

IH 43 NB

1306+00.00, 64.00'

12' MIN

12' MIN

PORT WASHINGTON RD

MARKING LINE EPOXY 4-INCH (WHITE)

CONCRETE BARRIER TEMPORARY PRECAST
LEFT IN PLACE (TYP)

NEW
TRAFFIC
PATTERN
AHEAD

W023-2

REMOVE AFTER COVERING
TRAFFIC SIGNAL HEADS

REMOVE SIGNAL AHEAD SIGN AFTER
COVERING TRAFFIC SIGNAL HEADS

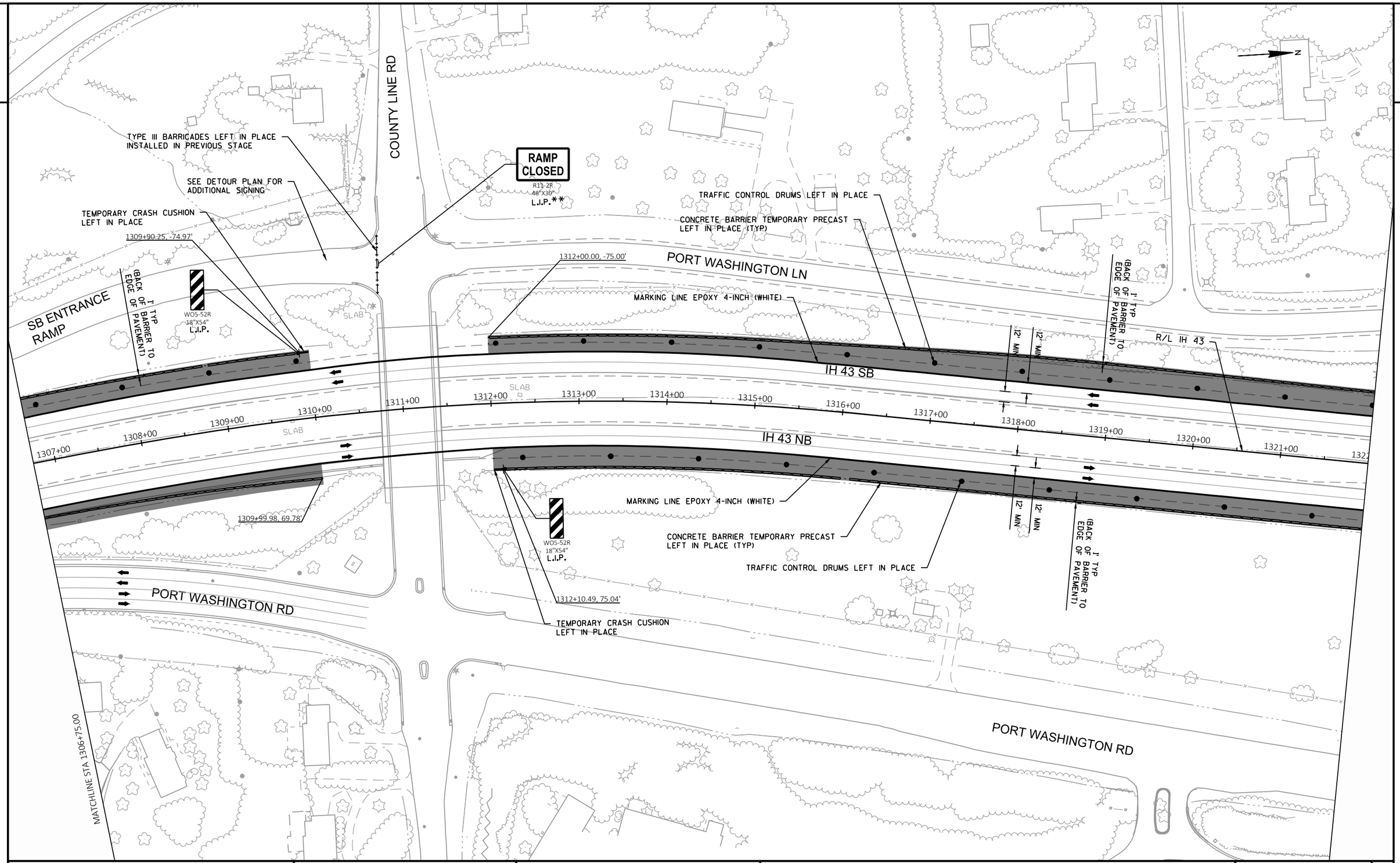
STA 1294+50 RT TO STA 1306+00 RT
0' OFFSET TO NB EDGE OF PAVEMENT
ANCHORING CONCRETE BARRIER
TEMPORARY PRECAST

MATCHLINE STA 1291+50.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 3	SHEET 267	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\025303-TC.DWG
LAYOUT NAME - TC1 - (7)
PLOT DATE : 3/31/2021 2:02 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 3	SHEET 268	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\025303-TC.DWG
LAYOUT NAME - TC1 - (8)

PLOT DATE : 3/4/2021 8:34 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

MATCHLINE STA 1337+25.00

MATCHLINE STA 1322+00.00

PORT WASHINGTON LN

CONCRETE BARRIER TEMPORARY PRECAST LEFT IN PLACE (TYP)

TEMPORARY CRASH CUSHION LEFT IN PLACE

MARKING LINE EPOXY 4-INCH (WHITE)

1' TYP (BACK OF BARRIER TO EDGE OF PAVEMENT)

1329+13.85, -76.23'

WO5-52R 18"X54" L.I.P.

TRAFFIC CONTROL DRUMS LEFT IN PLACE

12' MIN

12' MIN

1332+25.46, -75.27'

1' TYP (BACK OF BARRIER TO EDGE OF PAVEMENT)

TRAFFIC CONTROL DRUMS LEFT IN PLACE

R/L IH 43

IH 43 SB

SLAB 1323+00 SLAB 1324+00 1325+00 1326+00 1327+00 1328+00 1329+00 1330+00 1331+00 SLAB 1332+00 1333+00 1334+00 1335+00 1336+00 SLAB 1337+00

PORT WASHINGTON RD

IH 43 NB

12' MIN

12' MIN

MARKING LINE EPOXY 4-INCH (WHITE)

TRAFFIC CONTROL DRUMS LEFT IN PLACE

1' TYP (BACK OF BARRIER TO EDGE OF PAVEMENT)

1327+75.44, 75.00'

CONCRETE BARRIER TEMPORARY PRECAST LEFT IN PLACE (TYP)

WO5-52R 18"X54" L.I.P.

1' TYP (BACK OF BARRIER TO EDGE OF PAVEMENT)

KATHERINE DR

1330+84.91, 74.74'

TRAFFIC CONTROL DRUMS LEFT IN PLACE

TEMPORARY CRASH CUSHION LEFT IN PLACE

FISH CREEK

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 3	SHEET 269	E

2

2

MATCHLINE STA 1352+50.00

PORT WASHINGTON RD

CONCRETE BARRIER TEMPORARY PRECAST
LEFT IN PLACE (TYP)

1' TYP
(BACK OF BARRIER TO
EDGE OF PAVEMENT)

MARKING LINE EPOXY 4-INCH (WHITE)

TRAFFIC CONTROL DRUMS LEFT IN PLACE

12' MIN

12' MIN

R/L IH 43

IH 43 SB

1338+00 1339+00 1340+00 1341+00 1342+00 1343+00 1344+00 1345+00 1346+00 1347+00 1348+00 1349+00 1350+00 1351+00 1352+00

IH 43 NB

MARKING LINE EPOXY 4-INCH (WHITE)

TRAFFIC CONTROL DRUMS LEFT IN PLACE

CONCRETE BARRIER TEMPORARY PRECAST
LEFT IN PLACE (TYP)

12' MIN

12' MIN

1' TYP
(BACK OF BARRIER TO
EDGE OF PAVEMENT)

MATCHLINE STA 1337+25.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 3	SHEET 270	E

FILE NAME : C:\DOT WORK IH 43 WZ\025303-TC.DWG
LAYOUT NAME - TC1 - (10)

PLOT DATE : 1/13/2021 12:21 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

DONGES BAY RD

END CONSTRUCTION
STA 1367+92.50

TEMPORARY CRASH CUSHION
LEFT IN PLACE

1366+65.65, -63.07'

WO5-52R
18"X54"
L.I.P.

TRAFFIC CONTROL DRUMS LEFT IN PLACE

CONCRETE BARRIER TEMPORARY PRECAST
LEFT IN PLACE (TYP)

1' TYP
(BACK OF BARRIER TO
EDGE OF PAVEMENT)

1358+36.85, -75.00'

12' MIN

12' MIN

MARKING LINE EPOXY 4-INCH (WHITE)

1362+02.67, -67.56'

1364+26.36, -61.25'

R/L IH 43

IH 43 SB

1353+00 1354+00 1355+00 1356+00 1357+00 1358+00 1359+00 1360+00 1361+00 1362+00 1363+00 1364+00 1365+00 1366+00 1367+00

IH 43 NB

12' MIN

12' MIN

1358+88.61, 75.00'

1362+40.60, 68.12'

1364+42.55, 62.48'

1367+92.50, 62.80'

CONCRETE BARRIER TEMPORARY PRECAST
LEFT IN PLACE (TYP)

MARKING LINE EPOXY 4-INCH (WHITE)

TRAFFIC CONTROL DRUMS LEFT IN PLACE

1' TYP
(BACK OF BARRIER TO
EDGE OF PAVEMENT)

MATCHLINE STA 1352+50.00

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	TRAFFIC CONTROL STAGE 3	SHEET 271	E

LEGEND

- TRAFFIC CONTROL SIGN
- XXXXXXXX - ROAD/RAMP CLOSURE
- DETOUR TRAFFIC FLOW DIRECTION
- DETOUR ROUTE

NOTES:

1. SEE STANDARD DETAIL DRAWINGS FOR SIGN SPACING.
2. SEE TRAFFIC CONTROL PLANS FOR ADDITIONAL SIGNING.
3. ALL EXISTING SIGN MESSAGES THAT CONFLICT WITH DETOUR SIGNS SHALL BE COVERED BY THE CONTRACTOR.
4. SIGNS SHALL BE LEFT IN PLACE AT THE COMPLETION OF CONTRACT.

1 — SOUTH MB3-3 24"X12" / INTERSTATE 43 M1-1 24"X24" / RAMP CLOSED AHEAD W20-53A

2 — TO M4-5 24"X12" / SOUTH MB3-3 24"X12" / INTERSTATE 43 M1-1 24"X24" / MO6-2 21"X21"

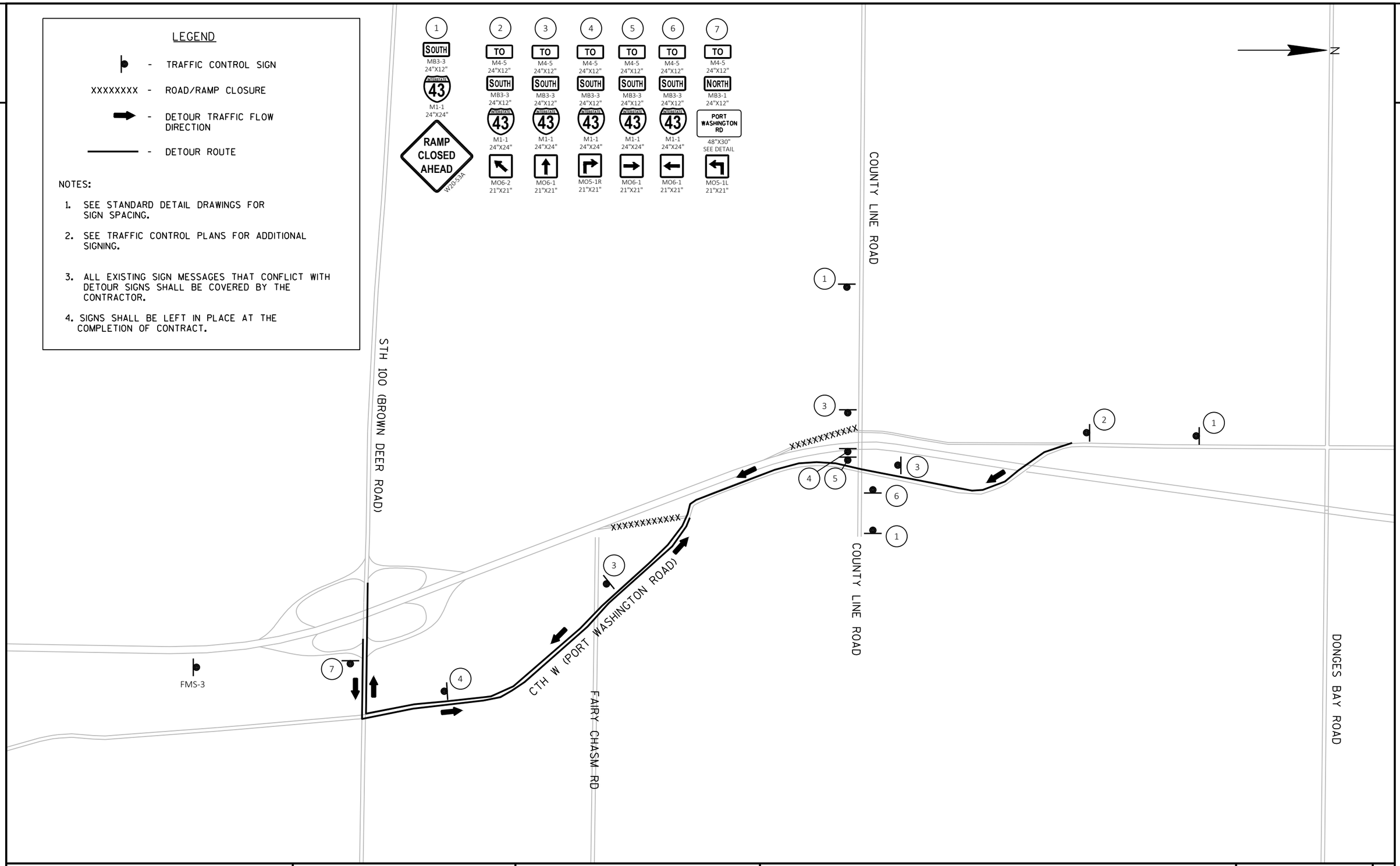
3 — TO M4-5 24"X12" / SOUTH MB3-3 24"X12" / INTERSTATE 43 M1-1 24"X24" / MO6-1 21"X21"

4 — TO M4-5 24"X12" / SOUTH MB3-3 24"X12" / INTERSTATE 43 M1-1 24"X24" / MO5-1R 21"X21"

5 — TO M4-5 24"X12" / SOUTH MB3-3 24"X12" / INTERSTATE 43 M1-1 24"X24" / MO6-1 21"X21"

6 — TO M4-5 24"X12" / SOUTH MB3-3 24"X12" / INTERSTATE 43 M1-1 24"X24" / MO6-1 21"X21"

7 — TO M4-5 24"X12" / NORTH MB3-1 24"X12" / PORT WASHINGTON RD 48"X30" SEE DETAIL / MO5-1L 21"X21"

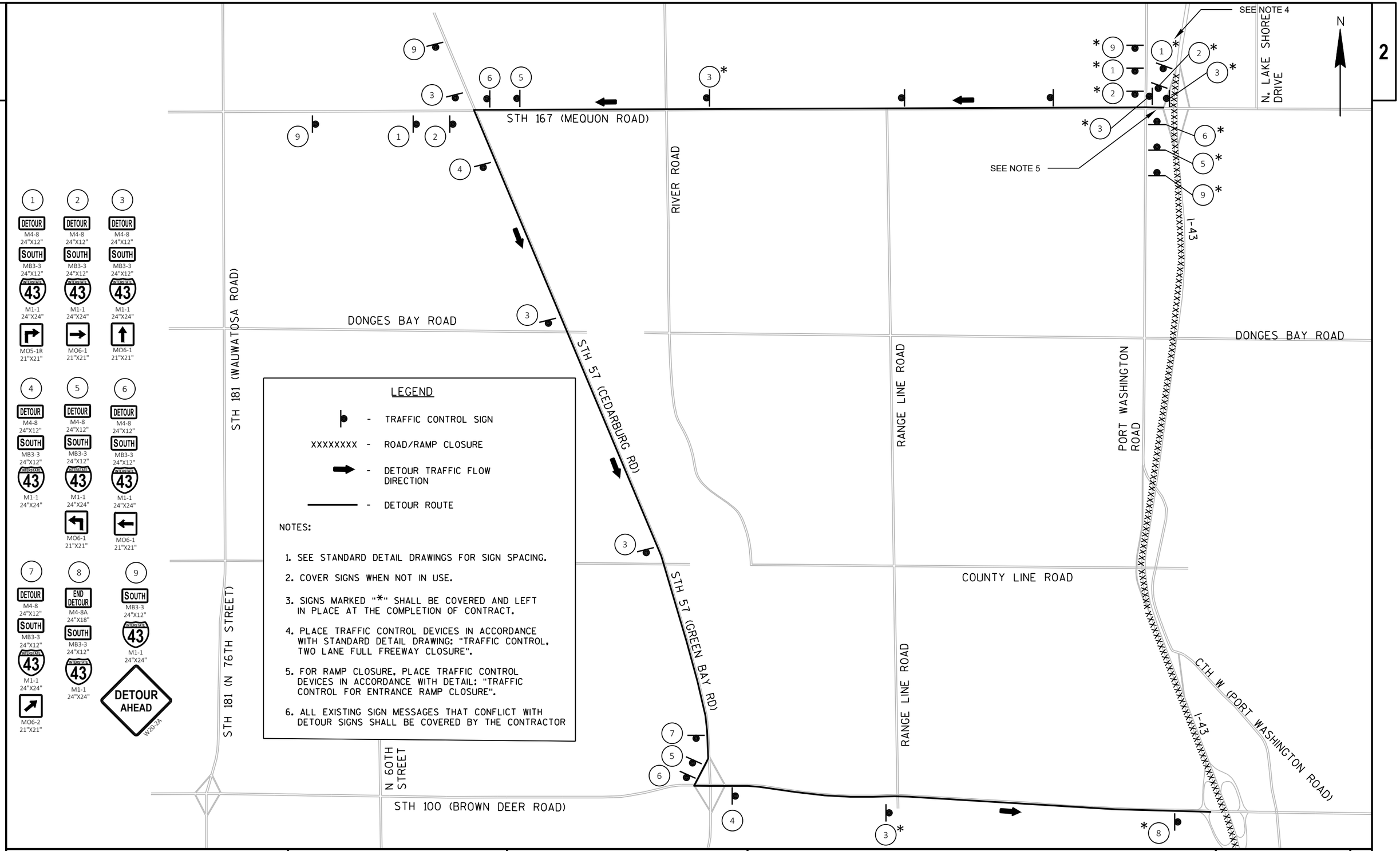


PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE/OZAUKEE	DETOUR - COUNTY LINE SB ON RAMP/NB OFF RAMP	SHEET 272	E

FILE NAME : C:\DOT WORK IH 43 WZ\027004-DT.DWG
LAYOUT NAME - 01

PLOT DATE : 1/18/2021 4:26 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : ####

WISDOT/CADDS SHEET 42



PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE/OZAUKEE	DETOUR - IH 43 SOUTHBOUND	SHEET 273	E

FILE NAME : C:\DOT WORK IH 43 WZ\027005-DT.DWG
LAYOUT NAME - 01

PLOT DATE : 1/7/2021 12:46 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : ####

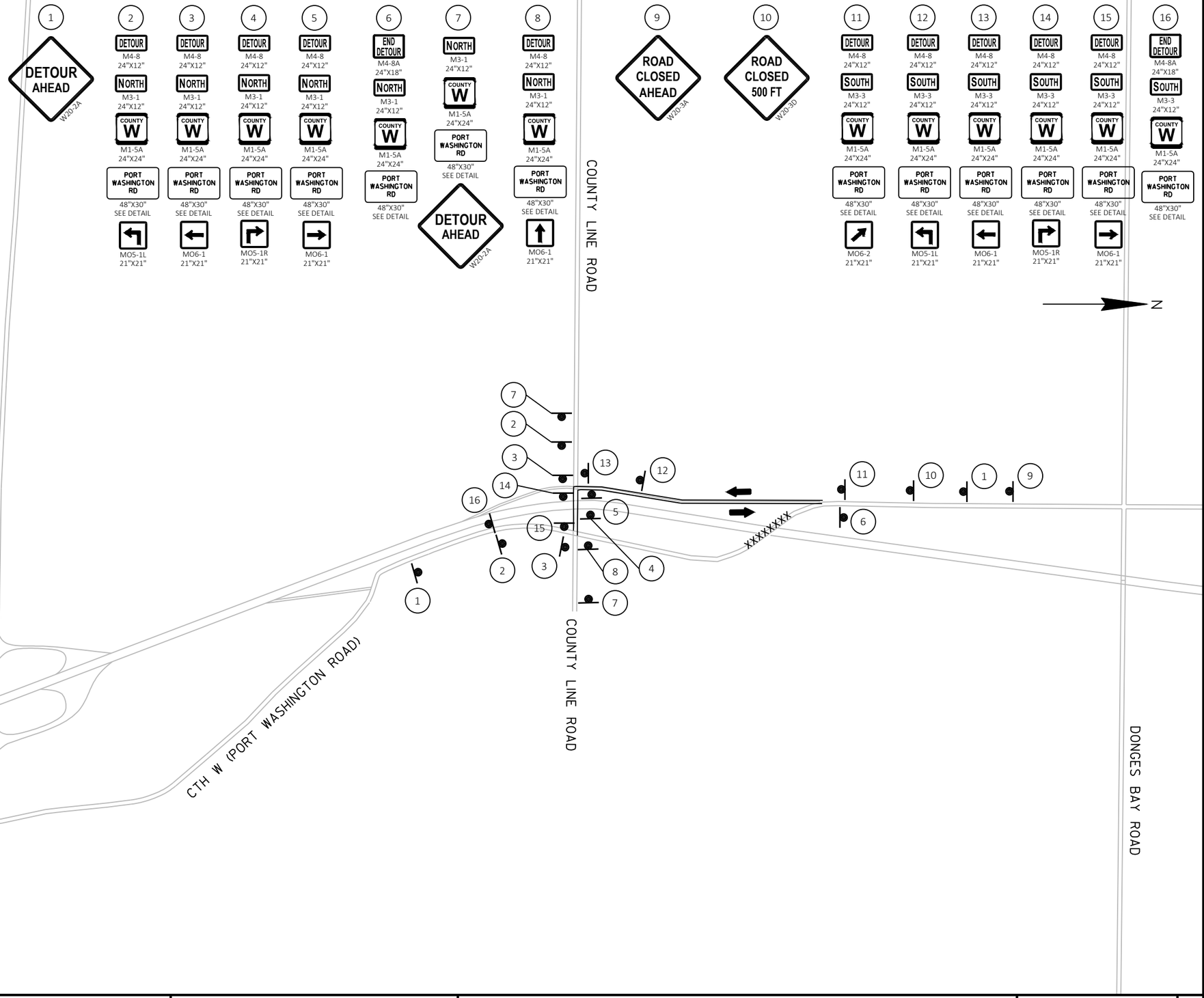
WISDOT/CADDS SHEET 42

LEGEND

- ● - TRAFFIC CONTROL SIGN
- XXXXXXXX - ROAD/RAMP CLOSURE
- ➡ - DETOUR TRAFFIC FLOW DIRECTION
- ——— - DETOUR ROUTE

NOTES:

1. SEE STANDARD DETAIL DRAWINGS FOR SIGN SPACING.
2. CLOSURE ANTICIPATED IN 2022.
3. COVER SIGNS AFTER INSTALLATION.
4. SIGNS SHALL BE LEFT IN PLACE AT THE COMPLETION OF CONTRACT.



PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE/OZAUKEE	DETOUR - PORT WASHINGTON ROAD	SHEET 274	E

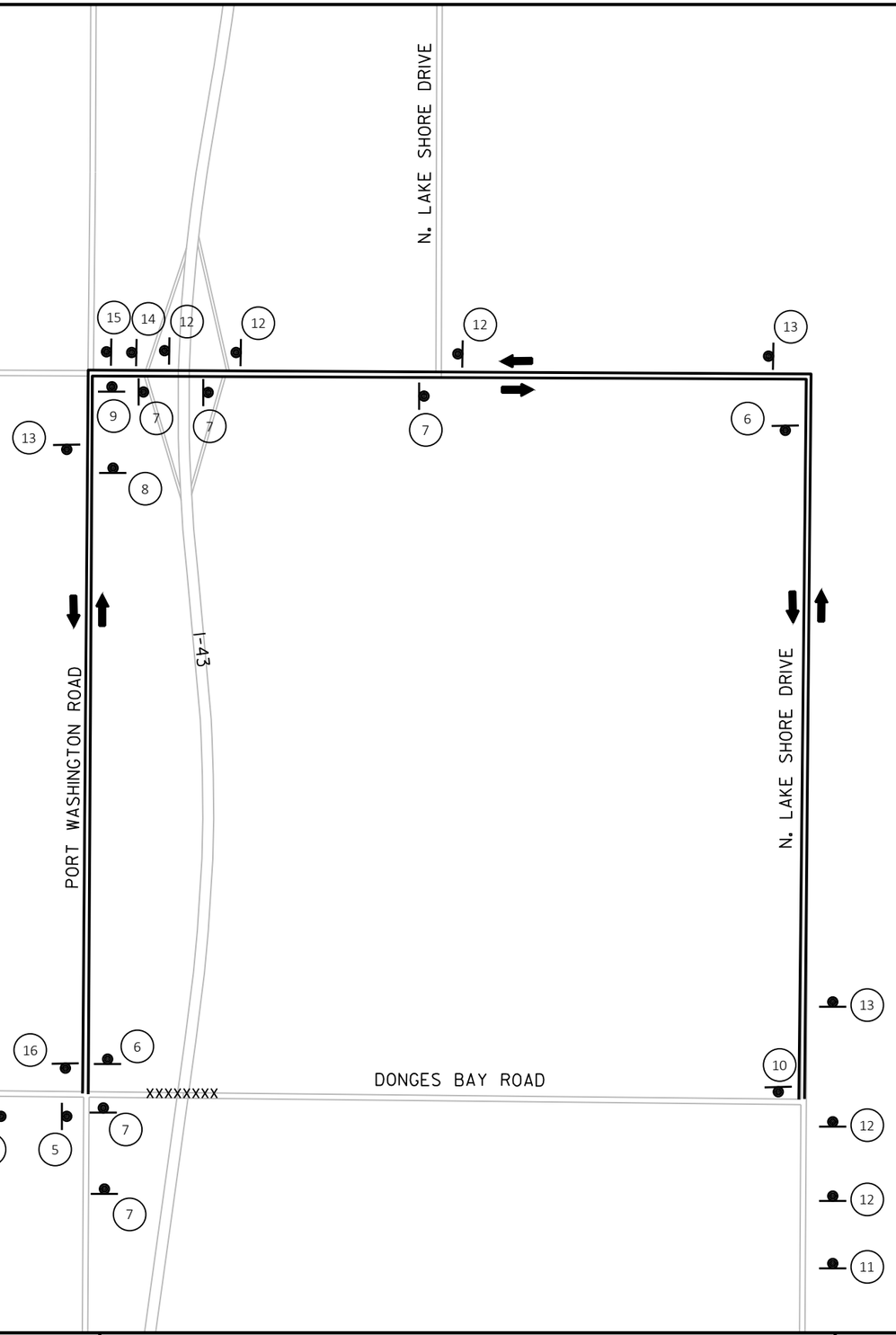
LEGEND

- TRAFFIC CONTROL SIGN
- XXXXXXXX - ROAD/RAMP CLOSURE
- DETOUR TRAFFIC FLOW DIRECTION
- DETOUR ROUTE

NOTES:

1. SEE STANDARD DETAIL DRAWINGS FOR SIGN SPACING.
2. DONGES BAY ROAD TO BE CLOSED IN 2022.
3. COVER SIGNS AFTER INSTALLATION.
4. SIGNS SHALL BE LEFT IN PLACE AT THE COMPLETION OF CONTRACT.

1 — ROAD CLOSED AHEAD — W20-3A
2 — DETOUR AHEAD — W20-2A
3 — ROAD CLOSED 500 FT — W20-3D
4–8 — DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / DONGES BAY RD 48"X24" SEE DETAIL / MO5-1L 21"X21" (4), MO6-1 21"X21" (5), MO6-1 21"X21" (6), MO6-1 21"X21" (7), MO5-1R 21"X21" (8)
9 — DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / DONGES BAY RD 48"X24" SEE DETAIL / MO6-1 21"X21"
10 — END DETOUR M4-8A 24"X18" / EAST M3-2 24"X12" / DONGES BAY RD 48"X24" SEE DETAIL
11 — DETOUR AHEAD W20-2A / WEST M3-3 24"X12" / DONGES BAY RD 48"X24" SEE DETAIL
12 — DETOUR M4-8 24"X12" / WEST M3-3 24"X12" / DONGES BAY RD 48"X24" SEE DETAIL / MO6-1 21"X21"
13 — DETOUR M4-8 24"X12" / WEST M3-3 24"X12" / DONGES BAY RD 48"X24" SEE DETAIL
14 — DETOUR M4-8 24"X12" / WEST M3-3 24"X12" / DONGES BAY RD 48"X24" SEE DETAIL / MO5-1L 21"X21"
15 — DETOUR M4-8 24"X12" / WEST M3-3 24"X12" / DONGES BAY RD 48"X24" SEE DETAIL / MO6-1 21"X21"
16 — END DETOUR M4-8A 24"X18" / WEST M3-3 24"X12" / DONGES BAY RD 48"X24" SEE DETAIL



PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE/OZAUKEE	DETOUR - DONGES BAY RD DETOUR	SHEET 275	E

FILE NAME : C:\DOT WORK IH 43 WZ\027007-DT.DWG
LAYOUT NAME - 01
PLOT DATE : 1/6/2021 3:31 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : ####

LEGEND

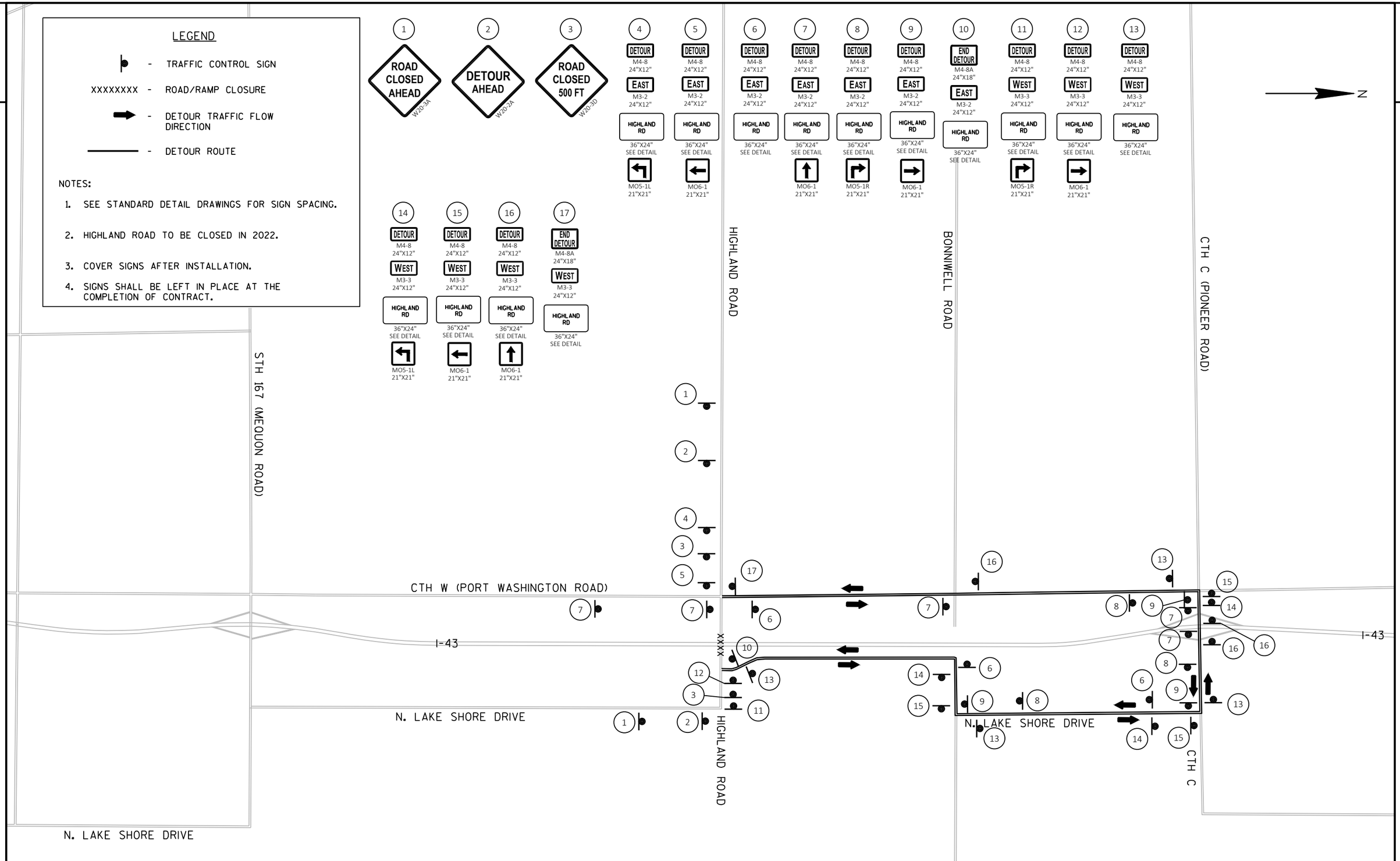
- ● - TRAFFIC CONTROL SIGN
- XXXXXXXX - ROAD/RAMP CLOSURE
- ➡ - DETOUR TRAFFIC FLOW DIRECTION
- ——— - DETOUR ROUTE

NOTES:

1. SEE STANDARD DETAIL DRAWINGS FOR SIGN SPACING.
2. HIGHLAND ROAD TO BE CLOSED IN 2022.
3. COVER SIGNS AFTER INSTALLATION.
4. SIGNS SHALL BE LEFT IN PLACE AT THE COMPLETION OF CONTRACT.

1 — ROAD CLOSED AHEAD — W20-3A
2 — DETOUR AHEAD — W20-2A
3 — ROAD CLOSED 500 FT — W20-3D

4 — DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / HIGHLAND RD 36"X24" SEE DETAIL / MO5-1L 21"X21"
5 — DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / HIGHLAND RD 36"X24" SEE DETAIL / MO6-1 21"X21"
6 — DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / HIGHLAND RD 36"X24" SEE DETAIL
7 — DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / HIGHLAND RD 36"X24" SEE DETAIL / MO6-1 21"X21"
8 — DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / HIGHLAND RD 36"X24" SEE DETAIL / MO5-1R 21"X21"
9 — DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / HIGHLAND RD 36"X24" SEE DETAIL / MO6-1 21"X21"
10 — END DETOUR M4-8A 24"X18" / EAST M3-2 24"X12" / HIGHLAND RD 36"X24" SEE DETAIL
11 — DETOUR M4-8 24"X12" / WEST M3-3 24"X12" / HIGHLAND RD 36"X24" SEE DETAIL / MO5-1R 21"X21"
12 — DETOUR M4-8 24"X12" / WEST M3-3 24"X12" / HIGHLAND RD 36"X24" SEE DETAIL / MO6-1 21"X21"
13 — DETOUR M4-8 24"X12" / WEST M3-3 24"X12" / HIGHLAND RD 36"X24" SEE DETAIL
14 — DETOUR M4-8 24"X12" / WEST M3-3 24"X12" / HIGHLAND RD 36"X24" SEE DETAIL / MO5-1L 21"X21"
15 — DETOUR M4-8 24"X12" / WEST M3-3 24"X12" / HIGHLAND RD 36"X24" SEE DETAIL / MO6-1 21"X21"
16 — DETOUR M4-8 24"X12" / WEST M3-3 24"X12" / HIGHLAND RD 36"X24" SEE DETAIL / MO6-1 21"X21"
17 — END DETOUR M4-8A 24"X18" / WEST M3-3 24"X12" / HIGHLAND RD 36"X24" SEE DETAIL



PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE/OZAUKEE	DETOUR - HIGHLAND RD DETOUR	SHEET 276	E

FILE NAME : C:\DOT WORK IH 43 WZ\027008-DT.DWG
LAYOUT NAME - 01
PLOT DATE : 1/20/2021 11:12 AM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : ####

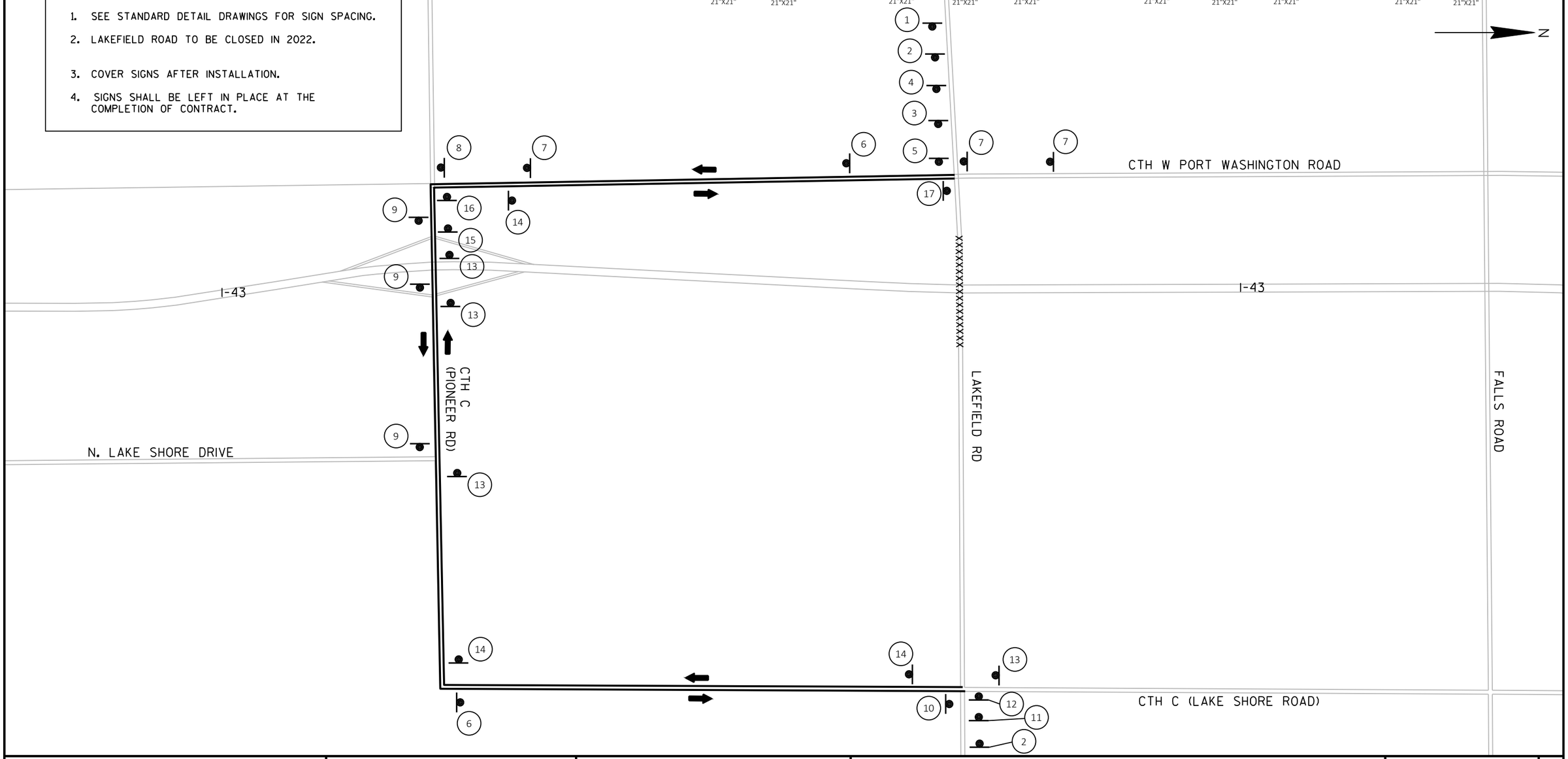
LEGEND

- TRAFFIC CONTROL SIGN
- XXXXXXXX - ROAD/RAMP CLOSURE
- DETOUR TRAFFIC FLOW DIRECTION
- DETOUR ROUTE

NOTES:

1. SEE STANDARD DETAIL DRAWINGS FOR SIGN SPACING.
2. LAKEFIELD ROAD TO BE CLOSED IN 2022.
3. COVER SIGNS AFTER INSTALLATION.
4. SIGNS SHALL BE LEFT IN PLACE AT THE COMPLETION OF CONTRACT.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ROAD CLOSED AHEAD W20-3A	DETOUR AHEAD W20-2A	ROAD CLOSED 500 FT W20-3D	DETOUR M4-8 24"X12"	DETOUR M4-8 24"X12"	DETOUR M4-8 24"X12"	DETOUR M4-8 24"X12"	DETOUR M4-8 24"X12"	DETOUR M4-8 24"X12"	END DETOUR M4-8A 24"X18"	DETOUR M4-8 24"X12"	DETOUR M4-8 24"X12"	DETOUR M4-8 24"X12"	DETOUR M4-8 24"X12"	DETOUR M4-8 24"X12"	DETOUR M4-8 24"X12"	END DETOUR M4-8A 24"X18"
			EAST M3-2 24"X12"	EAST M3-2 24"X12"	EAST M3-2 24"X12"	EAST M3-2 24"X12"	EAST M3-2 24"X12"	EAST M3-2 24"X12"	EAST M3-2 24"X12"	WEST M3-3 24"X12"	WEST M3-3 24"X12"	WEST M3-3 24"X12"	WEST M3-3 24"X12"	WEST M3-3 24"X12"	WEST M3-3 24"X12"	WEST M3-3 24"X12"
			LAKEFIELD RD 42"X24" SEE DETAIL	LAKEFIELD RD 42"X24" SEE DETAIL	LAKEFIELD RD 42"X24" SEE DETAIL	LAKEFIELD RD 42"X24" SEE DETAIL	LAKEFIELD RD 42"X24" SEE DETAIL	LAKEFIELD RD 42"X24" SEE DETAIL	LAKEFIELD RD 42"X24" SEE DETAIL	LAKEFIELD RD 42"X24" SEE DETAIL	LAKEFIELD RD 42"X24" SEE DETAIL	LAKEFIELD RD 42"X24" SEE DETAIL	LAKEFIELD RD 42"X24" SEE DETAIL	LAKEFIELD RD 42"X24" SEE DETAIL	LAKEFIELD RD 42"X24" SEE DETAIL	LAKEFIELD RD 42"X24" SEE DETAIL
			MO5-1R 21"X21"	MO6-1 21"X21"		MO5-1L 21"X21"	MO6-1 21"X21"	MO6-1 21"X21"		MO5-1L 21"X21"	MO6-1 21"X21"	MO6-1 21"X21"		MO5-1R 21"X21"	MO6-1 21"X21"	



PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE/OZAUKEE	DETOUR - LAKEFIELD RD DETOUR	SHEET 277	E

LEGEND

- ▶ - TRAFFIC CONTROL SIGN
- XXXXXXXX - ROAD/RAMP CLOSURE
- ➡ - DETOUR TRAFFIC FLOW DIRECTION
- ——— - DETOUR ROUTE

NOTES:

1. SEE STANDARD DETAIL DRAWINGS FOR SIGN SPACING.
2. FALLS ROAD TO BE CLOSED IN 2023.
3. COVER SIGNS AFTER INSTALLATION.
4. SIGNS SHALL BE LEFT IN PLACE AT THE COMPLETION OF CONTRACT.

1 ROAD CLOSED AHEAD W20-3A

2 DETOUR AHEAD W20-2A

3 ROAD CLOSED 500 FT W20-3D

4 DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / FALLS RD 24"X24" SEE DETAIL / MO5-1L 21"X21"

5 DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / FALLS RD 24"X24" SEE DETAIL / MO6-1 21"X21"

6 DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / FALLS RD 24"X24" SEE DETAIL

7 DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / FALLS RD 24"X24" SEE DETAIL / MO5-1R 21"X21"

8 DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / FALLS RD 24"X24" SEE DETAIL / MO6-1 21"X21"

9 DETOUR M4-8 24"X12" / EAST M3-2 24"X12" / FALLS RD 24"X24" SEE DETAIL / MO6-1 21"X21"

10 END DETOUR M4-8A 24"X18" / EAST M3-2 24"X12" / FALLS RD 24"X24" SEE DETAIL

11 DETOUR M4-8 24"X12" / WEST M3-3 24"X12" / FALLS RD 24"X24" SEE DETAIL / MO5-1R 21"X21"

12 DETOUR M4-8 24"X12" / WEST M3-3 24"X12" / FALLS RD 24"X24" SEE DETAIL / MO6-1 21"X21"

13 DETOUR M4-8 24"X12" / WEST M3-3 24"X12" / FALLS RD 24"X24" SEE DETAIL

14 DETOUR M4-8 24"X12" / WEST M3-3 24"X12" / FALLS RD 24"X24" SEE DETAIL / MO6-1 21"X21"

15 DETOUR M4-8 24"X12" / WEST M3-3 24"X12" / FALLS RD 24"X24" SEE DETAIL / MO5-1L 21"X21"

16 DETOUR M4-8 24"X12" / WEST M3-3 24"X12" / FALLS RD 24"X24" SEE DETAIL / MO6-1 21"X21"

17 END DETOUR M4-8A 24"X18" / WEST M3-3 24"X12" / FALLS RD 24"X24" SEE DETAIL

N

CTH W PORT WASHINGTON ROAD

I-43

LAKEFIELD RD

FALLS ROAD

CTH O

CTH C (LAKE SHORE ROAD)

PROJECT NO: 1229-04-70	HWY: IH-43	COUNTY: MILWAUKEE/OZAUKEE	DETOUR - FALLS RD DETOUR	SHEET 278	E

FILE NAME : C:\DOT WORK IH 43 WZ\027011-DT.DWG
LAYOUT NAME - 01

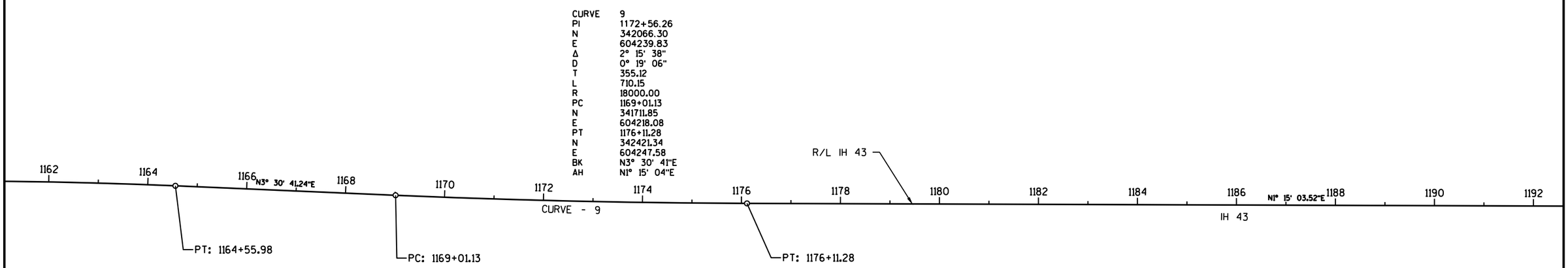
PLOT DATE : 1/6/2021 3:39 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : ####

WISDOT/CADDS SHEET 42

2

N

CURVE	9
PI	1172+56.26
N	342066.30
E	604239.83
Δ	2° 15' 38"
D	0° 19' 06"
T	355.12
L	710.15
R	18000.00
PC	1169+01.13
N	341711.85
E	604218.08
PT	1176+11.28
N	342421.34
E	604247.58
BK	N3° 30' 41"E
AH	N1° 15' 04"E



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	ALIGNMENT PLAN	SHEET 279 E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 027201-ad1

PLOT DATE : 1/19/2021 3:40 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

N

R/L IH 43

1192 1194 N1° 15' 03.52"E 1196 1198 1200 1202 1204 1206 1208 1210 1212 N0° 58' 54.08"E 1214 1216 1218 1220 1222

IH 43

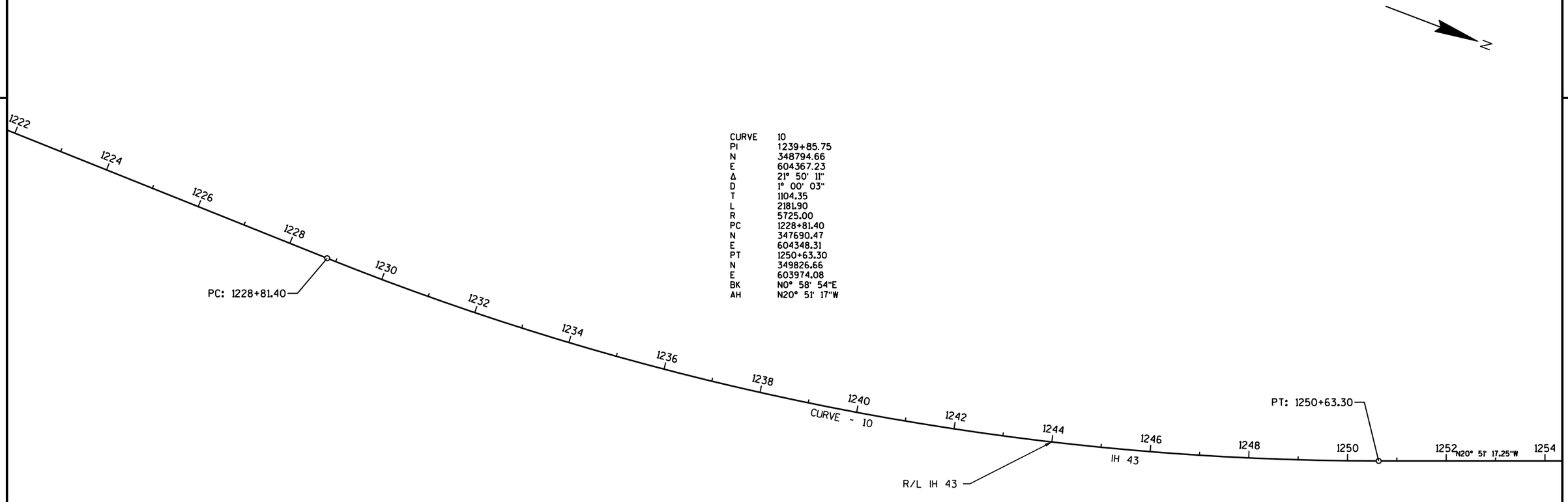
PI: 1198+31.95

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	ALIGNMENT PLAN	SHEET 280	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 027201-ad2

PLOT DATE : 1/19/2021 3:40 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

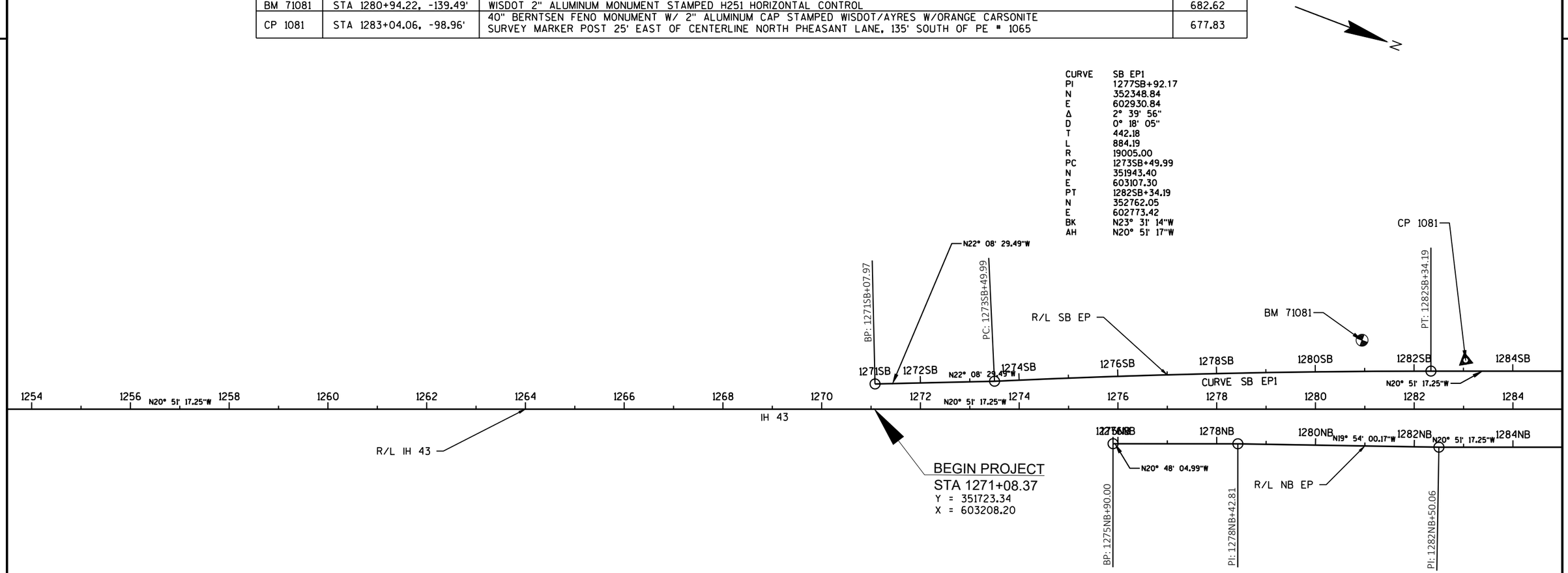


CURVE	10
PI	1239+85.75
N	348794.66
E	604367.23
Δ	21° 50' 11"
D	1° 00' 03"
T	1104.35
L	2181.90
R	5725.00
PC	1228+81.40
N	347690.47
E	604348.31
PT	1250+63.30
N	349826.66
E	603974.08
BK	N0° 58' 54"E
AH	N20° 51' 17"W

2

BENCHMARKS AND CONTROL

NUMBER	STATION	DESCRIPTION	ELEVATION
BM 71081	STA 1280+94.22, -139.49'	WISDOT 2" ALUMINUM MONUMENT STAMPED H251 HORIZONTAL CONTROL	682.62
CP 1081	STA 1283+04.06, -98.96'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ORANGE CARSONITE SURVEY MARKER POST 25' EAST OF CENTERLINE NORTH PHEASANT LANE, 135' SOUTH OF PE # 1065	677.83



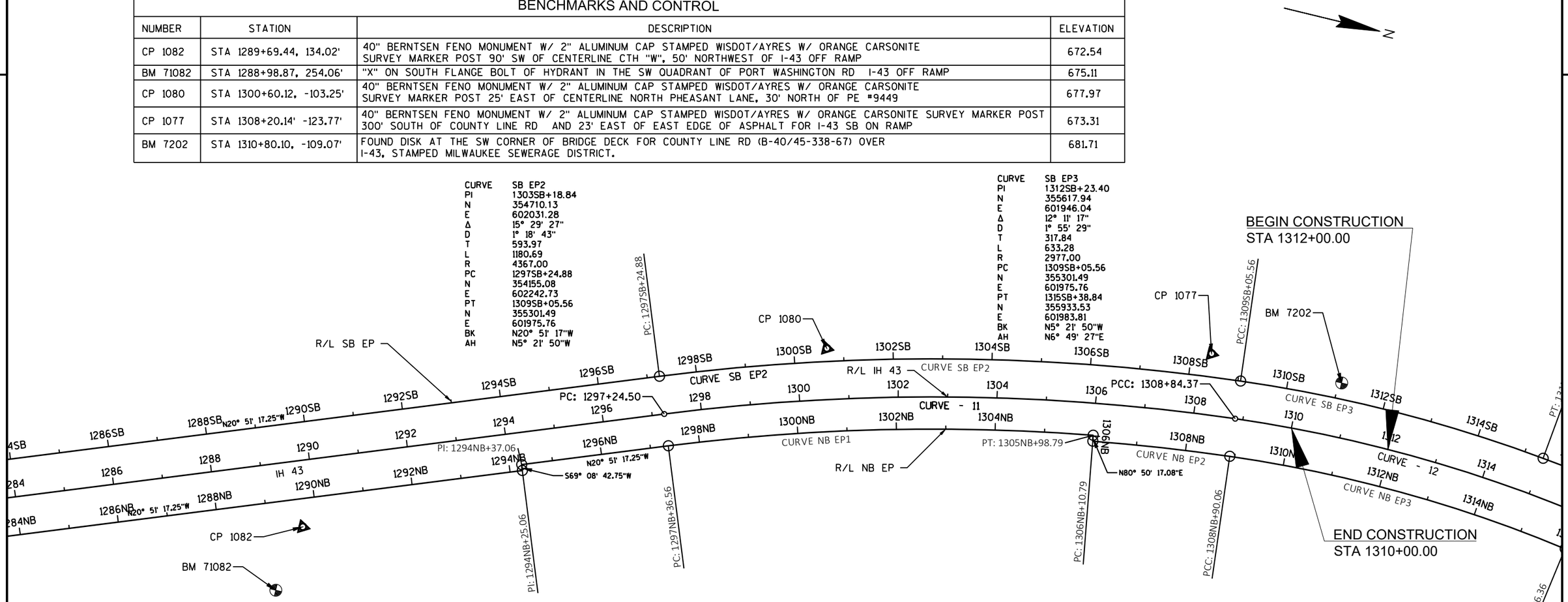
PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	ALIGNMENT PLAN	SHEET 282	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 027201-ad4
PLOT DATE : 1/19/2021 3:40 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

BENCHMARKS AND CONTROL

NUMBER	STATION	DESCRIPTION	ELEVATION
CP 1082	STA 1289+69.44, 134.02'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST 90' SW OF CENTERLINE CTH "W", 50' NORTHWEST OF I-43 OFF RAMP	672.54
BM 71082	STA 1288+98.87, 254.06'	"X" ON SOUTH FLANGE BOLT OF HYDRANT IN THE SW QUADRANT OF PORT WASHINGTON RD I-43 OFF RAMP	675.11
CP 1080	STA 1300+60.12, -103.25'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST 25' EAST OF CENTERLINE NORTH PHEASANT LANE, 30' NORTH OF PE #9449	677.97
CP 1077	STA 1308+20.14' -123.77'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST 300' SOUTH OF COUNTY LINE RD AND 23' EAST OF EAST EDGE OF ASPHALT FOR I-43 SB ON RAMP	673.31
BM 7202	STA 1310+80.10, -109.07'	FOUND DISK AT THE SW CORNER OF BRIDGE DECK FOR COUNTY LINE RD (B-40/45-338-67) OVER I-43, STAMPED MILWAUKEE SEWERAGE DISTRICT.	681.71



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	ALIGNMENT PLAN	SHEET 283	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\027201-AD.DWG
LAYOUT NAME - 027201-ad5
PLOT DATE : 3/3/2021 3:10 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:200 FT

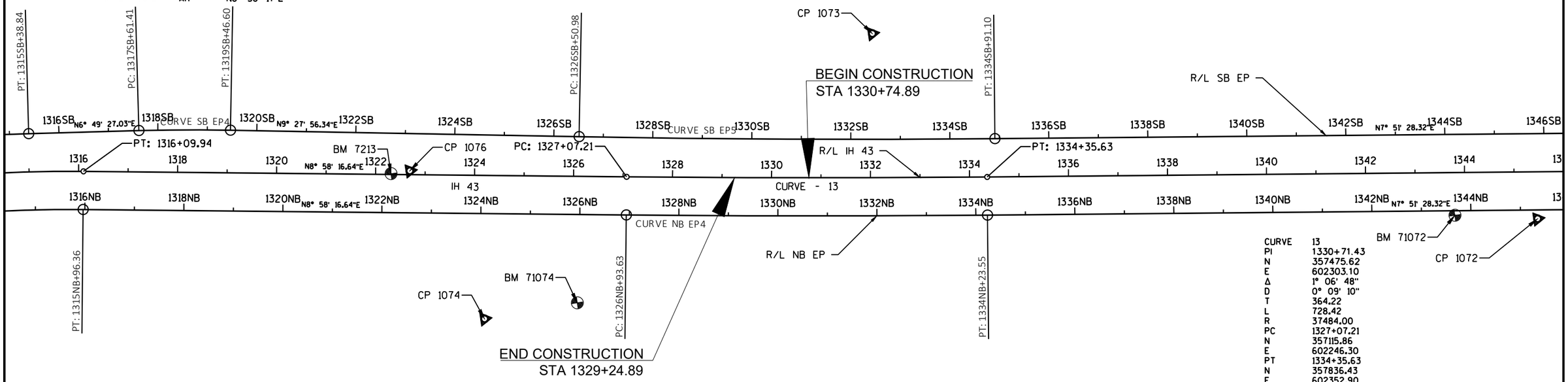
2

CURVE	SB EP4
PI	1318SB+54.02
N	356246.47
E	602021.26
Δ	2° 38' 29"
D	1° 25' 35"
T	92.61
L	185.19
R	4017.00
PC	1317SB+61.41
N	356154.52
E	602010.26
PT	1319SB+46.60
N	356337.83
E	602036.49
BK	N6° 49' 27"E
AH	N9° 27' 56"E

CURVE	12
PI	1312+49.06
N	355671.79
E	602018.33
Δ	14° 20' 07"
D	1° 58' 33"
T	364.69
L	725.57
R	2900.00
PC	1308+84.37
N	355308.69
E	602052.42
PT	1316+09.94
N	356032.02
E	602075.20
BK	N5° 21' 50"W
AH	N8° 58' 17"E

CURVE	NB EP4
PI	1330NB+58.60
N	357464.36
E	602379.27
Δ	1° 06' 48"
D	0° 09' 09"
T	364.97
L	729.92
R	37561.00
PC	1326NB+93.63
N	357103.85
E	602322.36
PT	1334NB+23.55
N	357825.90
E	602429.17
BK	N8° 58' 17"E
AH	N7° 51' 28"E

CURVE	SB EP5
PI	1330SB+71.07
N	357446.98
E	602221.42
Δ	1° 36' 28"
D	0° 11' 29"
T	420.09
L	840.12
R	29939.00
PC	1326SB+50.98
N	357032.61
E	602152.33
PT	1334SB+91.10
N	357863.12
E	602278.85
BK	N9° 27' 56"E
AH	N7° 51' 28"E



CURVE	13
PI	1330+71.43
N	357475.62
E	602303.10
Δ	1° 06' 48"
D	0° 09' 10"
T	364.22
L	728.42
R	37484.00
PC	1327+07.21
N	357115.86
E	602246.30
PT	1334+35.63
N	357836.43
E	602352.90
BK	N8° 58' 17"E
AH	N7° 51' 28"E

BENCHMARKS AND CONTROL

NUMBER	STATION	DESCRIPTION	ELEVATION
BM 7213	STA 1322+31.18, -1.40'	TOP OF POST FOR CABLE GUARD IN MEDIAN OF I-43, 60' SOUTH OF MAINTENANCE VEHICLE TURN AROUND AND 700' SOUTH OF PORT WASHINGTON RD. OVERPASS	669.77
CP 1076	STA 1322+69.16, -7.64	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST IN I-43 MEDIAN 35' SOUTH OF TURN AROUND BETWEEN PORT WASHINGTON RD OVERPASS AND COUTNY LINE RD OVERPASS	667.87
BM 71074	STA 1326+10.00, 255.12'	CUT "X" ON FLANGE BOLT W/ WHIP ON HYDRANT, FIRST HYDRANT SOUTH OF KATHERINE DR ON PORT WASHINGTON RD.	684.61
CP 1074	STA 1324+23.05, 289.46'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE POST 300' SOUTH OF KATHERINE DR. INTERSECTION WITH PORT WASHINGTON RD, 17' EAST OF R/W FENCE	676.91
CP 1073	STA 1332+04.30, -290.61'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST 30' EAST CENTERLINE PORT WASHINGTON LN AT PE# 9915. IN GRASS CENTER ISLAND BETWEEN PORT WASHINGTON RD AND PORT WASHINGTON LANE	682.57
BM 71072	STA 1343+79.63, 86.18'	3/4" REBAR APPROXIMATLEY 18' EAST OF EOB I-43, 166' SOUTH OF CP 1072	677.63
CP 1072	STA 1345+46.52, 94.79'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST APPROX 32' EAST OF EOB I 43 AND 25' WEST OF R/W FENCE. 110' NORTH OF "MEQUON NEXT 2 EXITS" SIGN	682.35

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	ALIGNMENT PLAN	SHEET 284	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\027201-AD.DWG
LAYOUT NAME - 027201-ad6
PLOT DATE : 3/3/2021 3:11 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

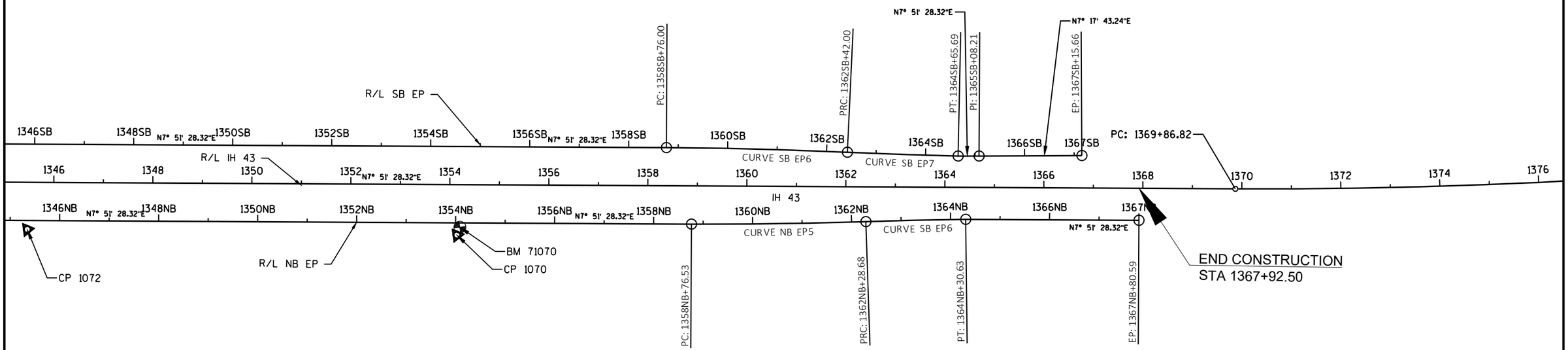
BENCHMARKS AND CONTROL

NUMBER	STATION	DESCRIPTION	ELEVATION
CP 1070	STA 1354+14.63, 101.58'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST APPROX 35' EAST OF EOB I 43 AND 15' WEST OF R/W FENCE NEAR TOP OF SLOPE. 160' NORTH OF EXIT 85 MEQUON RD. 1 MILE SIGN	685.85
BM 71070	STA 1354+20.54, 85.81'	3/4" REBAR 16.80' NW OF CP 1070	680.81

N

CURVE	SB EP6
PI	1360SB+59.03
N	360406.94
E	602629.93
Δ	2° 19' 43"
D	0° 38' 11"
T	183.02
L	366.00
R	9005.00
PC	1358SB+76.00
N	360225.63
E	602604.90
PT	1362SB+42.00
N	360587.08
E	602662.30
BK	N7° 51' 28"E
AH	N10° 11' 12"E

CURVE	SB EP7
PI	1363SB+53.85
N	360697.17
E	602682.08
Δ	1° 25' 29"
D	0° 38' 13"
T	111.85
L	223.69
R	8995.00
PC	1362SB+42.00
N	360587.08
E	602662.30
PT	1364SB+65.69
N	360807.71
E	602699.12
BK	N10° 11' 12"E
AH	N8° 45' 42"E



CURVE	NB EP5
PI	1360NB+52.63
N	360430.29
E	602788.61
Δ	2° 14' 26"
D	0° 38' 11"
T	176.10
L	352.16
R	9005.00
PC	1358NB+76.53
N	360255.85
E	602764.53
PT	1362NB+28.68
N	360605.55
E	602805.85
BK	N7° 51' 28"E
AH	N5° 37' 02"E

CURVE	NB EP6
PI	1363NB+29.66
N	360706.04
E	602815.73
Δ	1° 17' 11"
D	0° 38' 13"
T	100.98
L	201.95
R	8995.00
PC	1362NB+28.68
N	360605.55
E	602805.85
PT	1364NB+30.63
N	360806.29
E	602827.87
BK	N5° 37' 02"E
AH	N6° 54' 13"E

CURVE	14
PI	1382+89.52
N	362644.75
E	603016.50
Δ	12° 54' 28"
D	0° 29' 51"
T	1302.70
L	2594.38
R	11516.00
PC	1369+86.82
N	361354.27
E	602838.40
PT	1395+81.20
N	363942.39
E	602901.83
BK	N7° 51' 28"E
AH	N5° 03' 00"W

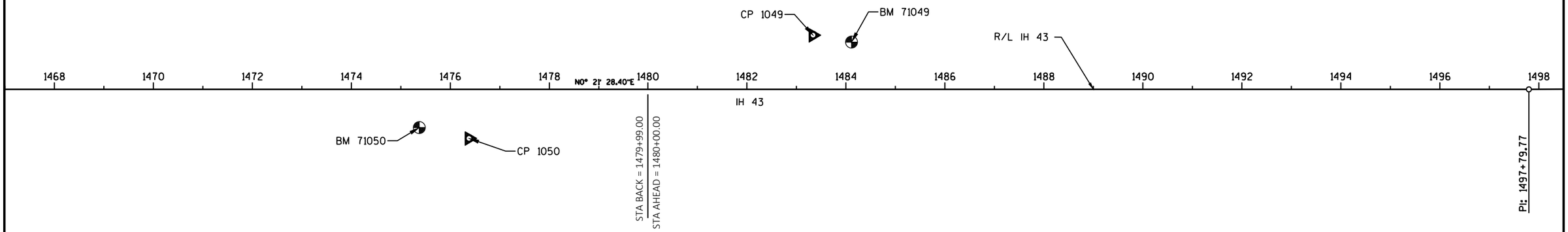
PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	ALIGNMENT PLAN	SHEET 285	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\027201-AD.DWG
LAYOUT NAME - 027201-ad7
PLOT DATE : 3/3/2021 3:11 PM
PLOT BY : WALTER A. WOLAK II
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

BENCHMARKS AND CONTROL			
NUMBER	STATION	DESCRIPTION	ELEVATION
BM 71050	STA 1475+37.17, 77.28'	MAG NAIL IN 36 INCH CMP ON EAST SIDE OF I-43 NORTH NEAR CONTROL POINT 1050	672.12
CP 1050	STA 1476+37.61, 99.20'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP WITH PUCHMARK IN CENTER WITH ORANGE CARSONITE SURVEY MARKER POST APPROX 25' EAST OF EOB NB I-43 AND 100' NORTH OF CONCRETE CULVERT PIPE	673.14
CP 1049	STA 1483+33.58, -109.25'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST 35' WEST OF I-43 SB EDGE OF PAVEMENT AND 35' SOUTH OF EXIT 85 1 MILE SIGN	682.32
BM 71049	STA 1484+11.35, -95.28'	3/4" REBAR 34' NE OF MEQUON RD 1 MILE SIGN AND 80' NE OF CP 1049	678.57

N



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	ALIGNMENT PLAN	SHEET 286	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\027202-AD.DWG
LAYOUT NAME - 027202-ad1

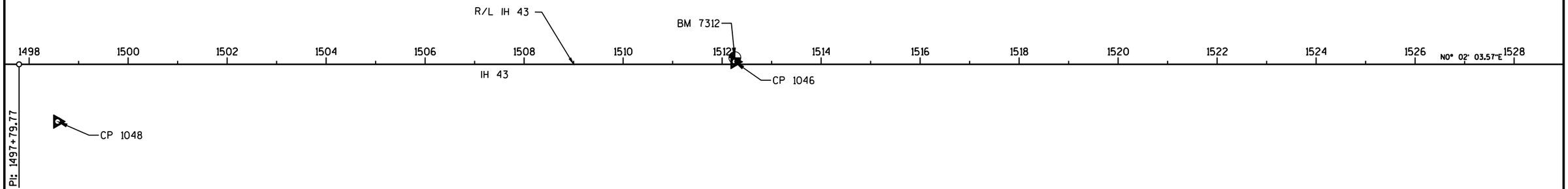
PLOT DATE : 1/19/2021 3:42 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

BENCHMARKS AND CONTROL

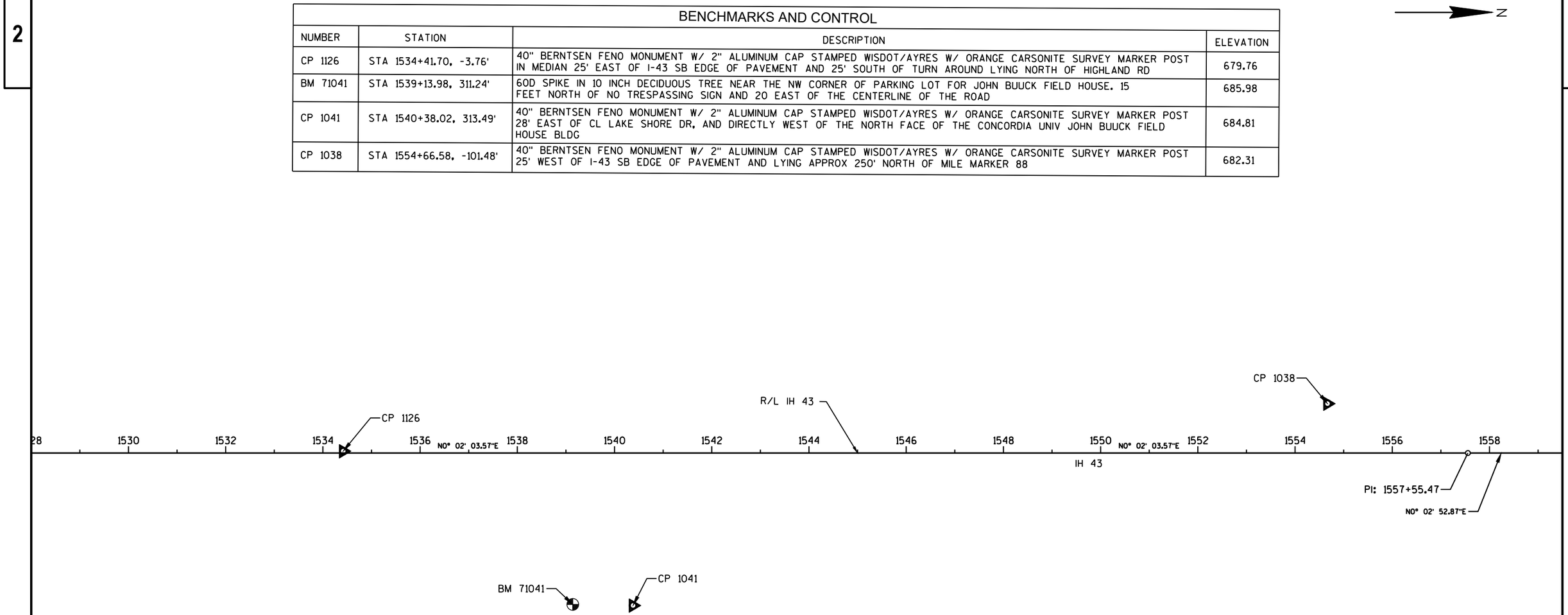
NUMBER	STATION	DESCRIPTION	ELEVATION
CP 1048	STA 1498+57.36, 115.78'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP W/ PUCHMARK IN CENTER WITH ORANGE CARSONITE SURVEY MARKER POST APPROX 45' EAST OF EOB NB I-43 AND 170' SOUTH OF MILE MARKER 87	688.60
CP 1046	STA 1512+25.59, -4.95'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST IN MEDIAN 20' EAST OF I-43 SB EDGE OF PAVEMENT AND APPROX 500' SOUTH OF HIGHLAND RD	679.71
BM 7312	STA 1512+25.69, -13.34'	TOP OF POST FOR CABLE GUARD IN MEDIAN OF I 43, 1200' SOUTH OF HIGHLAND ROAD OVERPASS. APPROXIMATELY 10' WEST OF CP 1046	682.80

N



BENCHMARKS AND CONTROL

NUMBER	STATION	DESCRIPTION	ELEVATION
CP 1126	STA 1534+41.70, -3.76'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST IN MEDIAN 25' EAST OF I-43 SB EDGE OF PAVEMENT AND 25' SOUTH OF TURN AROUND LYING NORTH OF HIGHLAND RD	679.76
BM 71041	STA 1539+13.98, 311.24'	60D SPIKE IN 10 INCH DECIDUOUS TREE NEAR THE NW CORNER OF PARKING LOT FOR JOHN BUUCK FIELD HOUSE. 15 FEET NORTH OF NO TRESPASSING SIGN AND 20 EAST OF THE CENTERLINE OF THE ROAD	685.98
CP 1041	STA 1540+38.02, 313.49'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST 28' EAST OF CL LAKE SHORE DR, AND DIRECTLY WEST OF THE NORTH FACE OF THE CONCORDIA UNIV JOHN BUUCK FIELD HOUSE BLDG	684.81
CP 1038	STA 1554+66.58, -101.48'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST 25' WEST OF I-43 SB EDGE OF PAVEMENT AND LYING APPROX 250' NORTH OF MILE MARKER 88	682.31

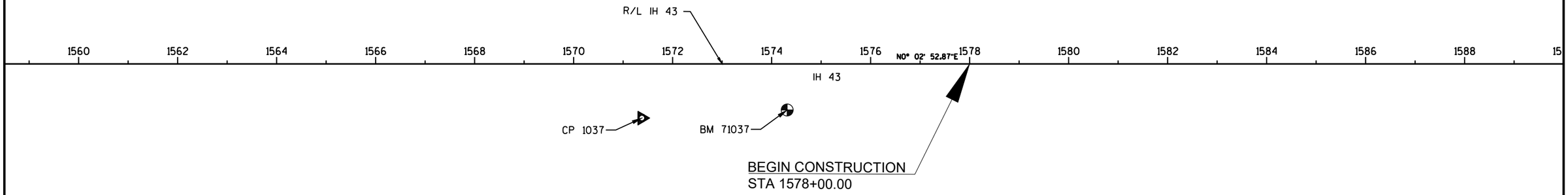


2

BENCHMARKS AND CONTROL

NUMBER	STATION	DESCRIPTION	ELEVATION
CP 1037	STA 1571+37.91, 109.21'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP W/ PUCHMARK IN CENTER WITH ORANGE CARSONITE SURVEY MARKER POST APPROX 37' EAST OF EOB NB I-43 AND 270' SOUTH OF HISTORIC DOWNTOWN CEDARBURG EXIT 89 SIGN	667.73
BM 71037	STA 1574+31.31, 92.91'	CHISELED "X" IN HISTORIC DOWNTOWN CEDARBURG SIGN, SW BOLT ON WEST SIGN BASE	665.24

N



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	ALIGNMENT PLAN	SHEET 289	E

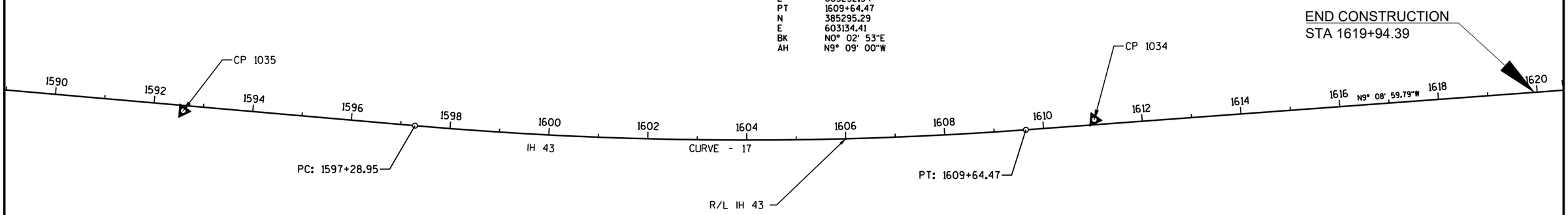
FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\027202-AD.DWG
LAYOUT NAME - 027202-ad4

PLOT DATE : 1/19/2021 3:42 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:200 FT

BENCHMARKS AND CONTROL			
NUMBER	STATION	DESCRIPTION	ELEVATION
CP 1035	STA 1592+59.81, 10.81'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP W/ PUCHMARK IN CENTER WITH ORANGE CARSONITE SURVEY MARKER POST IN MEDIAN OF I-43 NEAR CABLE GUARD. 80' NORTH OF LODGING EXIT 89 SIGN	666.07
CP 1034	STA 1611+03.64' -10.15'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST IN MEDIAN 30' EAST OF I-43 SB EDGE OF PAVEMENT AND LYING 60' SOUTH OF THE MEDIAN TURN AROUND SOUTH OF "C"	669.37

N

CURVE	17
PI	1603+48.04
N	384684.08
E	603232.86
Δ	9° 11' 53"
D	0° 44' 40"
T	619.09
L	1235.52
R	7696.28
PC	1597+28.95
N	384064.99
E	603232.34
PT	1609+64.47
N	385295.29
E	603134.41
BK	N0° 02' 53"E
AH	N9° 09' 00"W



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	ALIGNMENT PLAN	SHEET 290	E

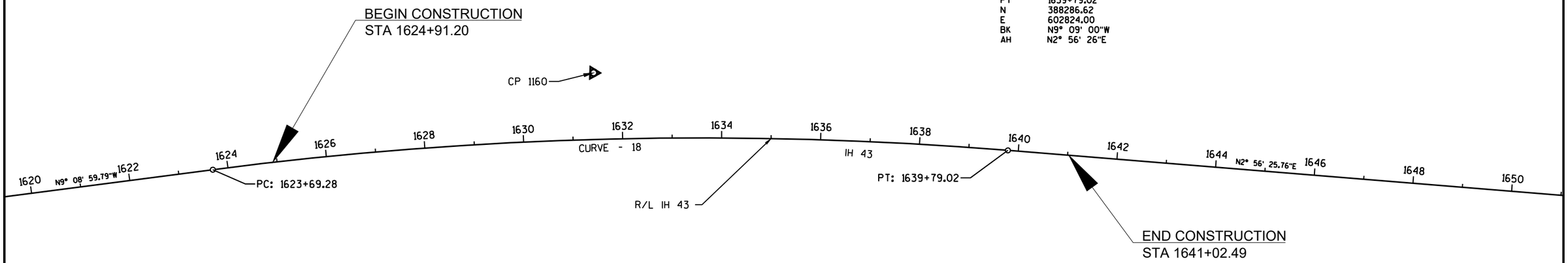
FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\027202-AD.DWG
LAYOUT NAME - 027202-ad5
PLOT DATE : 1/19/2021 3:42 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

BENCHMARKS AND CONTROL			
NUMBER	STATION	DESCRIPTION	ELEVATION
CP 1160	STA 1631+45.06, -134.78'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST. IN THE SW QUADRANT OF I-43 AND CR-C INTERCHANGE, 60' WEST OF WEST PAVEMENT EDGE SB I-43, APPROX 200' SOUTH OF CR-C	671.76

N

CURVE	18
PI	1631+77.15
N	387479.81
E	602782.56
Δ	12° 05' 26"
D	0° 45' 04"
T	807.87
L	1609.74
R	7628.46
PC	1623+69.28
N	386682.22
E	602911.02
PT	1639+79.02
N	388286.62
E	602824.00
BK	N9° 09' 00"W
AH	N2° 56' 26"E



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	ALIGNMENT PLAN	SHEET 291	E

FILE NAME : C:\DOT WORK IH 43 WZ\027202-AD.DWG
LAYOUT NAME - 027202-ad6

PLOT DATE : 1/19/2021 3:49 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:200 FT

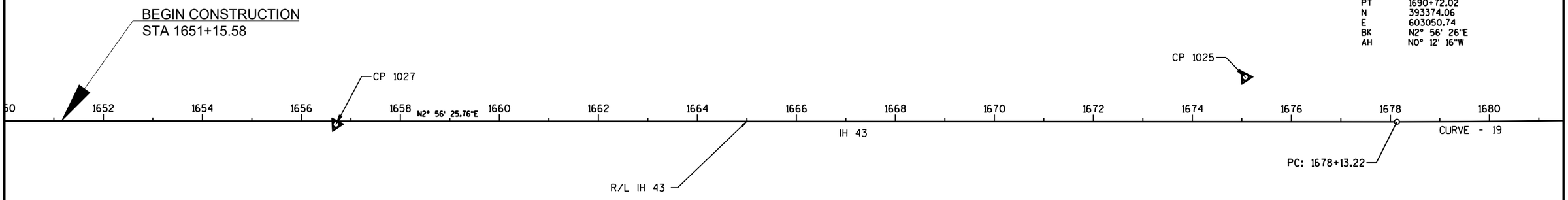
WISDOT/CADDS SHEET 42

2

N

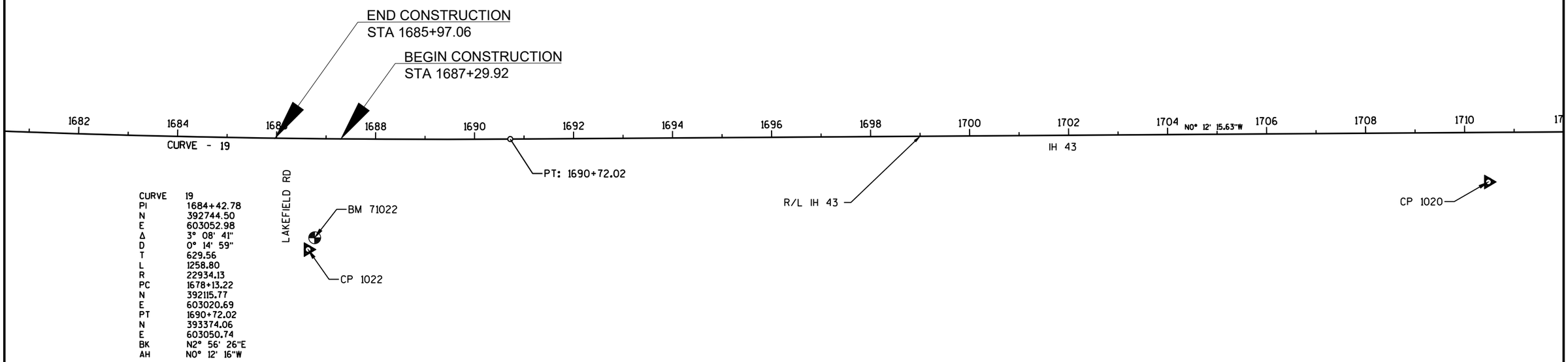
BENCHMARKS AND CONTROL			
NUMBER	STATION	DESCRIPTION	ELEVATION
CP 1027	STA 1656+69.96, 6.68'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST IN MEDIAN 30' EAST OF I-43 SB EDGE OF PAVEMENT AND LYING 60' NORTH OF THE MEDIAN TURN AROUND NORTH OF "C"	671.42
CP 1025	STA 1675+06.93, -89.62'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST 20' WEST OF I-43 SB EDGE OF PAVEMENT APPROXIMATELY NEAR MILE MARK 90.	674.25

CURVE	19
PI	1684+42.78
N	392744.50
E	603052.98
Δ	3° 08' 41"
D	0° 14' 59"
T	629.56
L	1258.80
R	22934.13
PC	1678+13.22
N	392115.77
E	603020.69
PT	1690+72.02
N	393374.06
E	603050.74
BK	N2° 56' 26"E
AH	N0° 12' 16"W



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	ALIGNMENT PLAN	SHEET 292	E

BENCHMARKS AND CONTROL			
NUMBER	STATION	DESCRIPTION	ELEVATION
CP 1022	STA 1686+66.14, 223.99'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST 17' NORTH LAKEFIELD RD AND 73' WEST OF CL RAILROAD TRACKS EAST OF I-43 OVERPASS	681.31
BM 71022	STA 1686+78.96, 200.12'	60D SPIKE IN EAST GATE POST AT PRIVATE ENTRANCE 1102 LAKEFIELD RD, NORTH OF QUALITY LANDSCAPING	679.92
CP 1020	STA 1710+47.38, 99.90'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST 30' EAST OF EDGE OF PAVEMENT I-43 NB AND 120 FEET NORTH OF MILE MARKER 91 SIGN	697.16



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	ALIGNMENT PLAN	SHEET 293	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\027202-AD.DWG
LAYOUT NAME - 027202-ad8

PLOT DATE : 1/19/2021 3:42 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

N

BENCHMARKS AND CONTROL

NUMBER	STATION	DESCRIPTION	ELEVATION
BM 71020	STA 1712+21.16, 85.24'	CHISELED "X" ON WEST LEG OF HIGHWAY 60/COUNTY ROAD O SIGN ON BOLT FLANGE NEAR GROUND	696.87
BM 71018	STA 1720+37.77, 80.27'	CHISELED "X" IN NORTHWEST BOLT OF HOSPITAL EXIT 92 SIGN ON I-43 NORTH	704.97
CP 1018	STA 1723+52.77, 109.71'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST 35' EAST OF EDGE OF PAVEMENT I-43 NB AND 300' NORTH OF HOSPITAL EXIT 92 SIGN	713.50

CURVE	20
PI	1745+63.49
N	398865.48
E	603031.15
Δ	4° 59' 12"
D	0° 29' 52"
T	501.12
L	1001.61
R	11508.61
PC	1740+62.36
N	398364.37
E	603032.94
PT	1750+63.97
N	399364.86
E	603072.93
BK	N0° 12' 16"W
AH	N4° 46' 56"E



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	ALIGNMENT PLAN	SHEET 294	E

BENCHMARKS AND CONTROL			
NUMBER	STATION	DESCRIPTION	ELEVATION
BM 75064	STA 1750+64.00, 0.15'	FOUND WISDOT ALIGNMENT MONUMENT IN THE MEDIAN OF I-43 LOCATED 0.20 MILES NORTH OF FALLS RD OVERPASS AND 125' NORTH OF MAINTENANCE TURN AROUND	703.99
CP 1012	STA 1756+85.45, 123.62'	40" BERNTSEN FENO MONUMENT W/ 2" ALUMINUM CAP STAMPED WISDOT/AYRES W/ ORANGE CARSONITE SURVEY MARKER POST 50' EAST OF EDGE OF PAVEMENT I-43 NB AND APPROX 650' SOUTH OF EXIT 92	703.06

N

END CONSTRUCTION
STA 1764+74.32

BM 75064

42 1744 1746 1748 1750 1752 1754 1756 1758 1760 1762 1764 1766 N4° 46' 55.87"E 1768 1770 1772

CURVE - 20

IH 43

PT: 1750+63.97

CURVE 20
PI 1745+63.49
N 398865.48
E 603031.15
Δ 4° 59' 12"
D 0° 29' 52"
T 501.12
L 1001.61
R 11508.61
PC 1740+62.36
N 398364.37
E 603032.94
PT 1750+63.97
N 399364.86
E 603072.93
BK N0° 12' 16"W
AH N4° 46' 56"E

CP 1012

R/L IH 43

BEGIN CONSTRUCTION
STA 1771+47.47

PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	ALIGNMENT PLAN	SHEET 295	E

FILE NAME : S:\DOT\DOT_SE\200557 I43 FINAL DESIGN\12290470\SHEETSPLAN\027202-AD.DWG
LAYOUT NAME - 027202-ad10

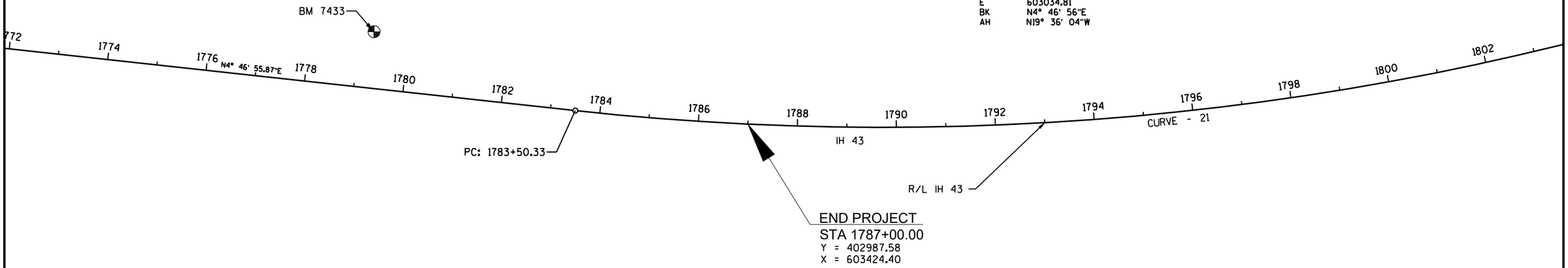
PLOT DATE : 1/19/2021 3:42 PM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

BENCHMARKS AND CONTROL			
NUMBER	STATION	DESCRIPTION	ELEVATION
BM 7433	STA 1779+28.60, -113.98'	FOUND WISDOT MONUMENT AT SW CORNER OF BRIDGE (B-45-15) CTH O/ STH 60 OVER I-43. LOCATED ON TOP OF PARAPET WALL APPROXIMATELY 3' ABOVE WALK	727.11

N

CURVE	21
PI	1795+88.32
N	403873.45
E	603450.12
Δ	24° 23' 00"
D	1° 00' 00"
T	1237.99
L	2438.50
R	5730.00
PC	1783+50.33
N	402639.77
E	603346.91
PT	1807+88.83
N	405039.70
E	603034.81
BK	N4° 46' 56"E
AH	N19° 36' 04"W

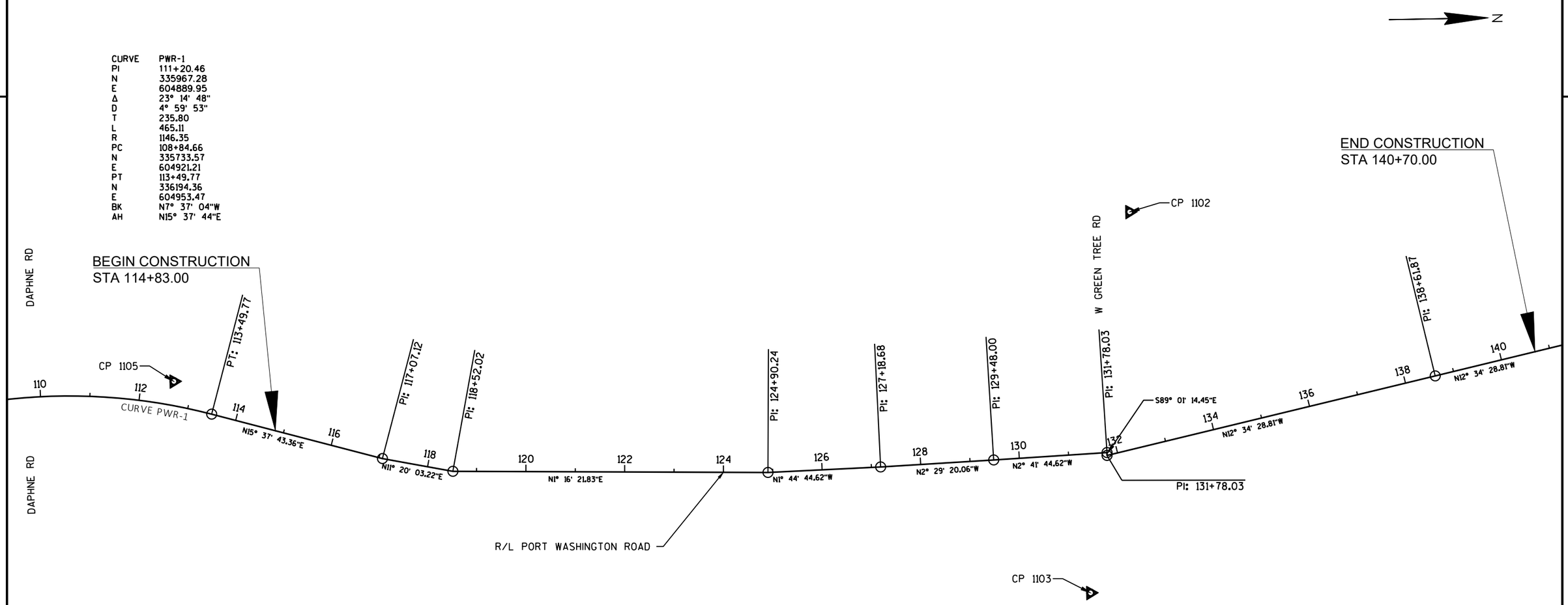


PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	ALIGNMENT PLAN	SHEET 296	E

FILE NAME : C:\USERS\WWOLAK\ONEDRIVE - KAPUR & ASSOCIATES, INC\DOCUMENTS\WORK\DOT WORK IH 43 WZ\027202-AD.DWG
LAYOUT NAME - 027202-ad11
PLOT DATE : 4/1/2021 8:02 AM PLOT BY : WALTER A. WOLAK II PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

CURVE	PWR-1
PI	111+20.46
N	335967.28
E	604889.95
Δ	23° 14' 48"
D	4° 59' 53"
T	235.80
L	465.11
R	1146.35
PC	108+84.66
N	335733.57
E	604921.21
PT	113+49.77
N	336194.36
E	604953.47
BK	N7° 37' 04"W
AH	N15° 37' 44"E



CONTROL			
NUMBER	STATION	DESCRIPTION	ELEVATION
CP 1102	STA 133+38.81, -468.79'	SET 40" BERNTSEN FENO MONUMENT WITH 2" ALUMINUM CAP PUNCH MARKED IN CENTER WITH ORANGE CARSONITE SURVEY MARKER POST NORTH SIDE OF GREEN TREE RD APPROX 165' EAST OF INTERSECTION WITH JEAN NICOLET RD. POINT IS LOCATED 40' NORTH OF CENTERLINE OF STREET AND 20' EAST OF END OF BRIDGE.	708.15
CP 1103	STA 131+26.15, 281.57'	SET 40" BERNTSEN FENO MONUMENT WITH 2" ALUMINUM CAP STAMPED WISCONSIN DEPT. OF TRANSPORTATION/AYRES ASSOCIATES WITH ORANGE CARSONITE SURVEY MARKER POST 33' SOUTH OF CENTERLINE GREEN TREE RD AND 350' WEST OF NAVAJO AVE.	700.19
CP 1105	STA 112+62.62, -48.37	SET 40" BERNTSEN FENO MONUMENT WITH 2" ALUMINUM CAP STAMPED WISCONSIN DEPT. OF TRANSPORTATION/AYRES ASSOCIATES WITH ORANGE CARSONITE SURVEY MARKER POST. SET 260' NORTH OF DAPHNE RD, 25' WEST OF CENTERLINE PORT WASHINGTON RD, BEHIND A GUARDRAIL.	684.76

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Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	64.000	64.000
0004	201.0120	Clearing	ID	124.000	124.000
0006	201.0205	Grubbing	STA	64.000	64.000
0008	201.0220	Grubbing	ID	124.000	124.000
0010	204.0100	Removing Concrete Pavement	SY	2,643.000	2,643.000
0012	204.0150	Removing Curb & Gutter	LF	2,804.000	2,804.000
0014	204.0165	Removing Guardrail	LF	4,185.000	4,185.000
0016	204.0170	Removing Fence	LF	1,280.000	1,280.000
0018	204.0180	Removing Delineators and Markers	EACH	300.000	300.000
0020	204.0195	Removing Concrete Bases	EACH	4.000	4.000
0022	204.0210	Removing Manholes	EACH	3.000	3.000
0024	204.0245	Removing Storm Sewer (size) 0001. 12-Inch	LF	3.000	3.000
0026	204.0245	Removing Storm Sewer (size) 0002. 15-Inch	LF	3.000	3.000
0028	204.0245	Removing Storm Sewer (size) 0003. 24-Inch	LF	8.000	8.000
0030	204.9001.S	Removing Advance Flasher Assemblies Type 1	EACH	1.000	1.000
0032	204.9060.S	Removing (item description) 0001. Removing Apron Endwall	EACH	4.000	4.000
0034	204.9090.S	Removing (item description) 0001. Removing Draintile	LF	100.000	100.000
0036	204.9090.S	Removing (item description) 0002. Removing Underdrain	LF	31,485.000	31,485.000
0038	204.9105.S	Removing (item description) 0001. Removing Overhead Sign Structure S-40-16	LS	1.000	1.000
0040	204.9105.S	Removing (item description) 0002. Removing Overhead Sign Structure S-45-401	LS	1.000	1.000
0042	205.0100	Excavation Common	CY	46,119.000	46,119.000
0044	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	360.000	360.000
0046	213.0100	Finishing Roadway (project) 0001. 1229-04-70	EACH	1.000	1.000
0048	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	35,526.000	35,526.000
0050	312.0110	Select Crushed Material	TON	41,448.000	41,448.000
0052	416.0610	Drilled Tie Bars	EACH	1,047.000	1,047.000
0054	416.0620	Drilled Dowel Bars	EACH	2,548.000	2,548.000
0056	416.0750.S	Concrete Pavement Partial Depth Repair Joint Repair	LF	500.000	500.000
0058	416.1715	Concrete Pavement Repair SHES	SY	817.000	817.000
0060	416.1725	Concrete Pavement Replacement SHES	SY	2,147.000	2,147.000
0062	455.0605	Tack Coat	GAL	9,051.000	9,051.000
0064	460.2000	Incentive Density HMA Pavement	DOL	18,320.000	18,320.000
0066	460.6223	HMA Pavement 3 MT 58-28 S	TON	20,982.000	20,982.000
0068	460.6224	HMA Pavement 4 MT 58-28 S	TON	7,629.000	7,629.000
0070	495.1000.S	Cold patch	TON	1,000.000	1,000.000
0072	511.2300	Temp Shoring Left in Place (location) 0001. Sta 1316+60 to Sta 1323+50	SF	2,531.000	2,531.000

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Line	Item	Item Description	Unit	Total	Qty
0074	520.8000	Concrete Collars for Pipe	EACH	10.000	10.000
0076	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	1.000	1.000
0078	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	1.000	1.000
0080	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000
0082	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	3.000	3.000
0084	522.2619	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	2.000	2.000
0086	603.8000	Concrete Barrier Temporary Precast Delivered	LF	19,293.000	19,293.000
0088	603.8125	Concrete Barrier Temporary Precast Installed	LF	36,651.000	36,651.000
0090	603.8500	Anchoring Concrete Barrier Temporary Precast	LF	1,150.000	1,150.000
0092	606.0200	Riprap Medium	CY	11.000	11.000
0094	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	437.000	437.000
0096	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	5.000	5.000
0098	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	94.000	94.000
0100	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	57.000	57.000
0102	608.2319	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 19x30-Inch	LF	26.000	26.000
0104	611.0420	Reconstructing Manholes	EACH	1.000	1.000
0106	611.0535	Manhole Covers Type J-Special	EACH	7.000	7.000
0108	611.0642	Inlet Covers Type MS	EACH	16.000	16.000
0110	611.2004	Manholes 4-FT Diameter	EACH	6.000	6.000
0112	611.2005	Manholes 5-FT Diameter	EACH	1.000	1.000
0114	611.3901	Inlets Median 1 Grate	EACH	16.000	16.000
0116	611.8110	Adjusting Manhole Covers	EACH	3.000	3.000
0118	611.8115	Adjusting Inlet Covers	EACH	2.000	2.000
0120	611.9800.S	Pipe Grates	EACH	5.000	5.000
0122	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	15,282.000	15,282.000
0124	612.0700	Drain Tile Exploration	LF	500.000	500.000
0126	612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	EACH	6.000	6.000
0128	614.0905	Crash Cushions Temporary	EACH	2.000	2.000
0130	616.0700.S	Fence Safety	LF	1,280.000	1,280.000
0132	619.1000	Mobilization	EACH	1.000	1.000
0134	624.0100	Water	MGAL	220.000	220.000

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Line	Item	Item Description	Unit	Total	Qty
0136	625.0100	Topsoil	SY	35,860.000	35,860.000
0138	627.0200	Mulching	SY	2,500.000	2,500.000
0140	628.1104	Erosion Bales	EACH	130.000	130.000
0142	628.1504	Silt Fence	LF	24,970.000	24,970.000
0144	628.1520	Silt Fence Maintenance	LF	24,970.000	24,970.000
0146	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0148	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0150	628.2004	Erosion Mat Class I Type B	SY	35,860.000	35,860.000
0152	628.7005	Inlet Protection Type A	EACH	26.000	26.000
0154	628.7010	Inlet Protection Type B	EACH	22.000	22.000
0156	628.7015	Inlet Protection Type C	EACH	59.000	59.000
0158	628.7020	Inlet Protection Type D	EACH	16.000	16.000
0160	628.7504	Temporary Ditch Checks	LF	690.000	690.000
0162	628.7555	Culvert Pipe Checks	EACH	14.000	14.000
0164	628.7560	Tracking Pads	EACH	4.000	4.000
0166	628.7570	Rock Bags	EACH	240.000	240.000
0168	629.0210	Fertilizer Type B	CWT	22.800	22.800
0170	630.0120	Seeding Mixture No. 20	LB	645.000	645.000
0172	630.0200	Seeding Temporary	LB	323.000	323.000
0174	630.0500	Seed Water	MGAL	250.000	250.000
0176	633.5200	Markers Culvert End	EACH	8.000	8.000
0178	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	17.000	17.000
0180	634.0622	Posts Wood 4x6-Inch X 22-FT	EACH	17.000	17.000
0182	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	4.000	4.000
0184	637.1220	Signs Type I Reflective SH	SF	200.000	200.000
0186	637.2210	Signs Type II Reflective H	SF	52.250	52.250
0188	637.2230	Signs Type II Reflective F	SF	56.500	56.500
0190	638.2101	Moving Signs Type I	EACH	3.000	3.000
0192	638.2102	Moving Signs Type II	EACH	24.000	24.000
0194	638.2601	Removing Signs Type I	EACH	7.000	7.000
0196	638.2602	Removing Signs Type II	EACH	25.000	25.000
0198	638.3000	Removing Small Sign Supports	EACH	49.000	49.000
0200	638.3100	Removing Structural Steel Sign Supports	EACH	12.000	12.000
0202	643.0300	Traffic Control Drums	DAY	55,178.000	55,178.000
0204	643.0420	Traffic Control Barricades Type III	DAY	3,359.000	3,359.000
0206	643.0705	Traffic Control Warning Lights Type A	DAY	6,718.000	6,718.000
0208	643.0715	Traffic Control Warning Lights Type C	DAY	8,359.000	8,359.000
0210	643.0800	Traffic Control Arrow Boards	DAY	508.000	508.000
0212	643.0900	Traffic Control Signs	DAY	8,107.000	8,107.000
0214	643.0910	Traffic Control Covering Signs Type I	EACH	8.000	8.000

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Line	Item	Item Description	Unit	Total	Qty
0216	643.0920	Traffic Control Covering Signs Type II	EACH	803.000	803.000
0218	643.1050	Traffic Control Signs PCMS	DAY	245.000	245.000
0220	643.1055.S	Truck or Trailer Mounted Attenuator	DAY	176.000	176.000
0222	643.4100.S	Traffic Control Interim Lane Closure	EACH	170.000	170.000
0224	643.5000	Traffic Control	EACH	1.000	1.000
0226	645.0120	Geotextile Type HR	SY	245.000	245.000
0228	645.0220	Geogrid Type SR	SY	69,076.000	69,076.000
0230	646.1020	Marking Line Epoxy 4-Inch	LF	36,799.000	36,799.000
0232	646.3020	Marking Line Epoxy 8-Inch	LF	660.000	660.000
0234	646.5020	Marking Arrow Epoxy	EACH	1.000	1.000
0236	646.6120	Marking Stop Line Epoxy 18-Inch	LF	50.000	50.000
0238	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	350.000	350.000
0240	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	360.000	360.000
0242	652.0700.S	Install Conduit into Existing Item	EACH	2.000	2.000
0244	653.0140	Pull Boxes Steel 24x42-Inch	EACH	1.000	1.000
0246	653.0905	Removing Pull Boxes	EACH	18.000	18.000
0248	654.0106	Concrete Bases Type 6	EACH	2.000	2.000
0250	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	2.000	2.000
0252	657.0327	Poles Type 6-Aluminum	EACH	2.000	2.000
0254	670.0100	Field System Integrator	LS	1.000	1.000
0256	670.0200	ITS Documentation	LS	1.000	1.000
0258	674.0300	Remove Cable	LF	11,915.000	11,915.000
0260	675.0300	Install Mounted Controller Microwave Detector Assembly	EACH	4.000	4.000
0262	678.0300	Fiber Optic Splice	EACH	4.000	4.000
0264	678.0500	Communication System Testing	LS	1.000	1.000
0266	690.0150	Sawing Asphalt	LF	1,199.000	1,199.000
0268	690.0250	Sawing Concrete	LF	44,511.000	44,511.000
0270	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,500.000	1,500.000
0272	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,800.000	1,800.000
0274	SPV.0035	Special 0001. EBS Excavation	CY	2,320.000	2,320.000
0276	SPV.0035	Special 0002. EBS Backfill	CY	2,320.000	2,320.000
0278	SPV.0035	Special 0003. Roadway Embankment	CY	2,679.000	2,679.000
0280	SPV.0045	Special 1000. Digital Speed Limit Sign Assembly	DAY	816.000	816.000
0282	SPV.0060	Special 0005. Erosion Control Filter Bags	EACH	2.000	2.000
0284	SPV.0060	Special 0120. Mobilizations Emergency Pavement Repair	EACH	5.000	5.000
0286	SPV.0060	Special 0500. Crash Cushions Temporary Left In Place	EACH	6.000	6.000
0288	SPV.0060	Special 0501. Traffic Control Signs Left In Place	EACH	648.000	648.000
0290	SPV.0060	Special 0502. Traffic Control Drums Left In Place	EACH	163.000	163.000

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Line	Item	Item Description	Unit	Total	Qty
0292	SPV.0060	Special 0503. Traffic Control Warning Lights Type A Left In Place	EACH	22.000	22.000
0294	SPV.0060	Special 0504. Traffic Control Barricades Type III Left In Place	EACH	11.000	11.000
0296	SPV.0060	Special 0601. Baseline CPM Progress Schedule	EACH	1.000	1.000
0298	SPV.0060	Special 0602. Monthly CPM Progress Schedule Updates	EACH	3.000	3.000
0300	SPV.0060	Special 0910. Traffic Control Close-Open Freeway Entrance Ramp	EACH	2.000	2.000
0302	SPV.0060	Special 0916. Traffic Control Local Road Lane Closures	EACH	58.000	58.000
0304	SPV.0060	Special 0918. Traffic Control Full Freeway Closure	EACH	1.000	1.000
0306	SPV.0060	Special 0940. Emergency Response to Traffic Involving Concrete Barrier Temporary	EACH	4.000	4.000
0308	SPV.0060	Special 0945. Emergency Response to Traffic Involving Crash Cushion	EACH	2.000	2.000
0310	SPV.0060	Special 2000. Removing Electric Service Meter Breaker Pedestal	EACH	1.000	1.000
0312	SPV.0060	Special 2001. Removing Controller Cabinet	EACH	1.000	1.000
0314	SPV.0060	Special 2002. Removing Controller Cabinet Base	EACH	1.000	1.000
0316	SPV.0060	Special 2004. Removing Ramp Control Signal Assembly Sidemount	EACH	2.000	2.000
0318	SPV.0060	Special 2007. Removing Overhead Freeway DMS	EACH	1.000	1.000
0320	SPV.0060	Special 2008. Remove Pole	EACH	1.000	1.000
0322	SPV.0060	Special 2013. Ground Rod	EACH	2.000	2.000
0324	SPV.0060	Special 2015. Refocus Vehicle Detector Assembly	EACH	6.000	6.000
0326	SPV.0060	Special 2016. Install Ethernet Radio	EACH	4.000	4.000
0328	SPV.0060	Special 5104. Adjusting Sanitary Manhole	EACH	2.000	2.000
0330	SPV.0060	Special 5200. Adjusting Water Valve Boxes	EACH	9.000	9.000
0332	SPV.0060	Special 8015. Pipe Connection to Existing Structure	EACH	15.000	15.000
0334	SPV.0060	Special 8061. Remove and Cap Existing Drainage Structure	EACH	18.000	18.000
0336	SPV.0075	Special 0601. Pavement Cleanup Project 1229-04-70	HRS	250.000	250.000
0338	SPV.0090	Special 0301. Heavy Duty Silt Fence	LF	1,456.000	1,456.000
0340	SPV.0090	Special 0500. Concrete Barrier Temporary Precast Left In Place	LF	17,358.000	17,358.000
0342	SPV.0090	Special 1000. Concrete Curb and Gutter 31-Inch SHES	LF	363.000	363.000
0344	SPV.0090	Special 2001. Outdoor Rated Network Cable	LF	1,385.000	1,385.000
0346	SPV.0105	Special 0100. Field Office Fixed	LS	1.000	1.000
0348	SPV.0105	Special 0604. Survey Project 1229-04-70	LS	1.000	1.000
0350	SPV.0105	Special 3000. Covering Traffic Signal Equipment IH 43 NB Off Ramp & CTH W	LS	1.000	1.000
0352	SPV.0165	Special 0500. Traffic Control Signs Fixed Message	SF	1,016.000	1,016.000

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Line	Item	Item Description	Unit	Total	Qty
		Left In Place			
0354	SPV.0195	Special 0020. HMA Longitudinal Joint Repair	TON	1,000.000	1,000.000

CLEARING AND GRUBBING

STATION			OFFSET	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA	201.0120 CLEARING ID	201.0220 GRUBBING ID
1276+00	-	1278+00	LT	IH 43 SB	2	2	--	--
1278+00	-	1281+00	LT	IH 43 SB	3	3	--	--
1281+00	-	1282+00	LT	IH 43 SB	1	1	--	--
1283+21			77'LT	IH 43 SB	--	--	10	10
1283+46			87'LT	IH 43 SB	--	--	8	8
1284+20			83'LT	IH 43 SB	--	--	6	6
1284+61			80'LT	IH 43 SB	--	--	10	10
1284+86			79'LT	IH 43 SB	--	--	6	6
1285+00	-	1286+00	LT	IH 43 SB	1	1	--	--
1286+00	-	1287+00	LT	IH 43 SB	1	1	--	--
1287+00	-	1288+00	LT	IH 43 SB	1	1	--	--
1288+00	-	1291+00	LT	IH 43 SB	3	3	--	--
1291+00	-	1292+00	LT	IH 43 SB	1	1	--	--
1293+00	-	1294+00	LT	IH 43 SB	1	1	--	--
1295+03			87'LT	IH 43 SB	--	--	12	12
1295+86			88'LT	IH 43 SB	--	--	10	10
1296+00	-	1297+00	LT	IH 43 SB	1	1	--	--
1302+00	-	1303+00	LT	IH 43 SB	1	1	--	--
1306+00	-	1307+00	RT	IH 43 NB	1	1	--	--
1307+00	-	1309+00	RT	IH 43 NB	2	2	--	--
1309+00	-	1310+00	RT	IH 43 NB	1	1	--	--
1311+00	-	1312+00	LT	IH 43 SB	1	1	--	--
1311+00	-	1314+00	RT	IH 43 NB	3	3	--	--
1312+00	-	1314+00	LT	IH 43 SB	2	2	--	--
1314+00	-	1317+00	LT	IH 43 SB	2	2	--	--
1316+00	-	1317+00	RT	IH 43 NB	1	1	--	--
1318+00	-	1320+00	LT	IH 43 SB	2	2	--	--
1320+00	-	1323+00	LT	IH 43 SB	3	3	--	--

CLEARING AND GRUBBING CONTINUED

STATION			OFFSET	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA	201.0120 CLEARING ID	201.0220 GRUBBING ID
1327+00	-	1329+00	RT	IH 43 NB	2	2	--	--
1329+00	-	1330+00	LT	IH 43 SB	1	1	--	--
1330+00	-	1331+00	RT	IH 43 NB	1	1	--	--
1331+00	-	1332+00	RT	IH 43 NB	1	1	--	--
1332+00	-	1333+00	LT	IH 43 SB	1	1	--	--
1332+00	-	1333+00	RT	IH 43 NB	1	1	--	--
1333+00	-	1336+00	RT	IH 43 NB	3	3	--	--
1334+25			87'LT	IH 43 SB	--	--	8	8
1335+17			92'LT	IH 43 SB	--	--	6	6
1336+00	-	1339+00	LT	IH 43 SB	3	3	--	--
1336+00	-	1337+00	RT	IH 43 NB	1	1	--	--
1337+00	-	1341+00	RT	IH 43 NB	4	4	--	--
1339+00	-	1348+00	LT	IH 43 SB	9	9	--	--
1341+00	-	1348+00	RT	IH 43 NB	7	7	--	--
1348+79			88'LT	IH 43 SB	--	--	10	10
1348+00	-	1350+00	RT	IH 43 NB	2	2	--	--
1349+30			91'LT	IH 43 SB	--	--	10	10
1351+00	-	1352+00	RT	IH 43 NB	1	1	--	--
1351+35			85'LT	IH 43 SB	--	--	8	8
1351+48			83'LT	IH 43 SB	--	--	8	8
1352+93			95'RT	IH 43 NB	--	--	8	8
1353+57			92'RT	IH 43 NB	--	--	10	10
1353+80			90'RT	IH 43 NB	--	--	8	8
1354+57			92'LT	IH 43 SB	--	--	8	8
1354+00	-	1356+00	RT	IH 43 NB	2	2	--	--
1355+06			90'LT	IH 43 SB	--	--	8	8
1356+10			88'RT	IH 43 NB	--	--	10	10
1356+25			89'LT	IH 43 SB	--	--	8	8
1357+00	-	1358+00	RT	IH 43 NB	1	1	--	--
1357+00	-	1359+00	LT	IH 43 SB	2	2	--	--
1359+30			92'RT	IH 43 NB	--	--	8	8
1363+00	-	1364+00	RT	IH 43 NB	1	1	--	--
UNDISTRIBUTED					3	3	6	6
PROJECT 1229-04-70 TOTAL					64	64	124	124

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

REMOVING CONCRETE PAVEMENT

STATION		STATION	OFFSET	LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY
1278+50	-	1283+25	RT	IH 43 NB	893
1290+75	-	1304+00	LT	IH 43 NB	1750
PROJECT 1229-04-70 TOTAL					2,643

REMOVING CURB & GUTTER

STATION		STATION	OFFSET	LOCATION	204.0150* REMOVING CURB & GUTTER LF
1280+69	-	1282+49	RT	IH 43 NB	181
1282+84	-	1283+71	RT	IH 43 NB	89
1294+81	-	1310+00	RT	IH 43 NB	1501
1295+58	-	1302+20	LT	IH 43 SB	670
PROJECT 1229-04-70 TOTAL					2,441

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN THE PLAN

REMOVING GUARDRAIL

STATION		STATION	LOCATION	OFFSET	204.0165 REMOVING GUARDRAIL LF
1279+48	-	1280+49	IH 43 NB	RT	101
1282+24	-	1302+19	IH 43 SB	LT	2003
1287+83	-	1306+00	IH 43 NB	RT	1803
1337+04	-	1339+83	IH 43 SB	LT	278
PROJECT 1229-04-70 TOTAL					4,185

REMOVING FENCE

STATION		STATION	OFFSET	LOCATION	204.0170 REMOVING FENCE LF
1282+15	-	1298+11	LT	IH 43 SB	1598
1284+12	-	1295+38	RT	IH 43 NB	1126
1306+12	-	1306+50	RT	IH 43 NB	38
UNDISTRIBUTED					116
PROJECT 1229-04-70 TOTAL					1,280

REMOVING DELINEATORS AND MARKERS

STATION	OFFSET	LOCATION	204.0180 REMOVING DELINEATORS AND MARKERS EACH
1289+81	65'LT	IH 43 SB	1
1292+27	66'LT	IH 43 SB	1
1292+93	72'LT	IH 43 SB	1
1305+18	78'RT	IH 43 NB	1
1307+02	80'LT	IH 43 SB	1
1307+08	77'RT	IH 43 NB	1
1311+85	77'RT	IH 43 NB	1
1311+96	81'LT	IH 43 SB	1
1313+68	71'RT	IH 43 NB	2
1314+61	70'RT	IH 43 NB	1
1317+31	71'LT	IH 43 SB	1
1319+31	70'RT	IH 43 NB	1
1321+79	71'LT	IH 43 SB	1
1324+56	70'RT	IH 43 NB	1
1325+39	71'LT	IH 43 SB	1
1328+42	79'RT	IH 43 NB	2
1328+59	66'RT	IH 43 NB	1
1329+31	73'LT	IH 43 SB	1
1329+76	72'LT	IH 43 SB	2
1330+13	68'RT	IH 43 NB	1
1331+86	78'LT	IH 43 SB	1

REMOVING DELINEATORS AND MARKERS CONTINUED

STATION	OFFSET	LOCATION	204.0180 REMOVING DELINEATORS AND MARKERS EACH
1332+65	72'RT	IH 43 NB	2
1332+68	79'LT	IH 43 SB	1
1334+52	72'LT	IH 43 SB	1
1336+32	70'RT	IH 43 NB	1
1337+52	77'RT	IH 43 NB	1
1341+15	71'RT	IH 43 NB	1
1342+92	71'LT	IH 43 SB	1
1344+27	71'RT	IH 43 NB	1
1344+53	76'LT	IH 43 SB	1
1346+26	70'LT	IH 43 SB	1
1347+61	70'RT	IH 43 NB	1
1350+45	72'LT	IH 43 SB	2
1351+14	79'RT	IH 43 SB	1
1352+42	71'RT	IH 43 NB	1
1354+97	71'LT	IH 43 SB	1
1356+62	71'RT	IH 43 NB	1
1357+97	78'LT	IH 43 SB	2
1356+99	79'RT	IH 43 NB	1
1358+71	71'LT	IH 43 SB	1
1360+27	70'RT	IH 43 NB	1
1363+03	68'LT	IH 43 SB	1
1364+10	59'RT	IH 43 NB	1
1365+27	72'LT	IH 43 SB	1
1365+29	60'RT	IH 43 NB	1
1366+31	59'LT	IH 43 SB	1
1367+59	56'RT	IH 43 NB	1
1367+90	56'RT	IH 43 NB	1
UNDISTRIBUTED			246
PROJECT 1229-04-70 TOTAL			300

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

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STORM SEWER PIPE REMOVALS

ROADWAY	STATION	OFFSET	TO	STATION	OFFSET	204.0245.0001 REMOVING STORM SEWER 12-INCH LF	204.0245.0002 REMOVING STORM SEWER 15-INCH LF	204.0245.0003 REMOVING STORM SEWER 24-INCH LF
IH 43								
	1307+12	79' RT	--	1307+11	81' RT	3	---	---
	1295+16	74' RT	--	1295+16	76' RT	---	3	---
	1292+93	88' LT	--	1292+93	80' LT	---	---	8
TOTALS						3	3	8

REMOVING APRON ENDWALL

ROADWAY	STATION	OFFSET	204.9060.S.0001 REMOVING APRON ENDWALL EACH
IH 43			
	1285+64	68' LT	1
	1286+00	70' RT	1
	1292+93	80' LT	1
	1314+81	78' RT	1
TOTAL			4

DRAINTILE / UNDERDRAIN REMOVALS

ROADWAY	STATION	TO	STATION	LOCATION	204.9090.S.0001 REMOVING DRAINTILE LF	204.9090.S.0002 REMOVING UNDERDRAIN LF
IH 43						
	1312+00	--	1367+93	NB	---	5,593
	1312+00	--	1366+76	SB	---	5,476
	1578+00	--	1787+00	NB	---	18,583
	UNDISTRIBUTED				100	1,833
TOTALS					100	31,485

REMOVE AND CAP EXISTING DRAINAGE STRUCTURE

ROADWAY	STRUCTURE	STATION	OFFSET	EXISTING RIM ELEVATION	TO	PROPOSED RIM ELEVATION	SPV.0060.8061 REMOVE AND CAP EXISTING DRAINAGE STRUCTURE EACH
IH 43							
	E151	1293+71	79' RT	669.33		669.33	1
	E163	1298+12	61' RT	671.64		671.04	1
	E167	1301+00	63' RT	671.43		669.33	1
	E179	1304+07	64' RT	669.68		666.58	1
	E191	1307+07	78' LT	664.22		663.62	1
	E195	1307+07	64' RT	664.59		662.99	1
	E207	1311+89	79' LT	659.68		659.68	1
	E213	1311+89	76' RT	657.93		657.93	1
	E303	1332+73	79' LT	664.51		664.51	1
	E385	1332+78	77' RT	665.93		665.93	1
	E379	1337+58	76' RT	670.55		669.95	1
	E373	1337+84	77' LT	670.25		669.65	1
	E355	1344+57	77' LT	674.87		674.27	1
	E361	1344+58	77' RT	675.07		673.97	1
	E333	1351+06	78' LT	677.64		676.04	1
	E341	1351+08	77' RT	677.71		674.61	1
	E329	1357+05	77' RT	679.82		677.22	1
	E323	1357+05	77' LT	679.89		678.29	1
TOTAL							18

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

3

EARTHWORK SUMMARY

Division	From/To Station	Location	205.0100 Excavation Common (CY)	SPV.0035.0001 EBS Excavation (CY) (2)	SPV.0035.0002 EBS Backfill (CY)	SPV.0035.0003 Roadway Embankment (CY) (3)	Mass Ordinate +/- (4)
			Cut (1)			Fill	
1							
	1278+54 TO 1367+93	IH 43 NB	5,744	260	260	0	6,004
	1271+08 TO 1366+76	IH 43 SB	5,974	260	260	0	6,234
	1578+00 TO 1787+00	IH 43 NB	15,887	1,280	1,280	0	17,167
Division 1 Subtotals Stage 1			27,605	1,800	1,800	0	29,404
2							
	1275+90 TO 1367+93	IH 43 NB	10,158	260	260	1,019	9,399
	1271+08 TO 1366+76	IH 43 SB	8,357	260	260	1,660	6,957
Division 2 Subtotals Stage 2			18,515	520	520	2,678	16,356
Grand Totals			46,119	2,320	2,320	2,679	45,761

NOTES:

1) Cut Volume Includes Concrete and Asphaltic Surface Material.
2) EBS Excavation to be backfilled with EBS Backfill. All EBS material is assumed to be wasted offsite.
3) Roadway Embankment = Unexpanded Fill
4) The Mass Ordinate + or - quantity calculated by Division. A positive quantity indicates an excess of material within the division and a negative number indicates a shortage of material within the division. Mass Ordinate = Cut + EBS Excavation - Embankment. The mass ordinate is for information purposes only as Excavation Common and Roadway Embankment are not balance for quantity purposes and does not guarantee the quality of Excavation Common.
5) The storm sewer excavation is not included in this table and should be considered additional waste and is considered incidental to the storm sewer items.

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

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CONCRETE REPAIR AND REPLACEMENT

STATION	-	STATION	OFFSET	LOCATION (PWR)	204.0150* REMOVING CURB & GUTTER LF	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	416.0750.S CONCRETE PAVEMENT PARTIAL DEPTH JOINT REPAIR LF	416.1715 CONCRETE PAVEMENT REPAIR SHES SY	416.1725 CONCRETE PAVEMENT REPLACEMENT SHES SY	690.0250* SAWING CONCRETE LF	SPV.0090.1000 CONCRETE CURB AND GUTTER 31-INCH SHES LF
114+83	-	114+89	LT	SB LANES	-	-	32	-	17	-	62	-
114+97	-	115+03	RT	NB LANES	-	-	36	-	16	-	60	-
115+00	-	115+05	RT	MEDIAN	5	-	-		-	-	-	5
115+03	-	115+78	RT	COVENTRY CT	-	30	26	-	-	178	190	-
115+10	-	115+42	LT	SB OUTSIDE LANE	-	26	12	-	-	27	80	-
115+75	-	115+85	RT	NB OUTSIDE	10	-	-		-	-	-	10
115+84	-	115+90	LT	SB OUTSIDE LANES	-	-	32	-	15	-	58	-
115+84	-	116+00	RT	ALL NB LANES	-	-	32	-	15	-	58	-
116+20	-	116+26	LT	SB OUTSIDE LANE	-	-	32	-	15	-	58	-
116+27	-	116+33	LT	SB INSIDE LANES	-	-	32	-	15	-	58	-
116+74	-	117+05	LT	SB TURN BAY TAPER	-	13	6	-	-	14	72	-
116+73	-	116+79	LT	SB OUTSIDE LANE	-	-	16	-	8	-	36	-
117+17	-	117+23	LT	SB INSIDE LANE	-	-	16	-	9	-	38	-
117+33	-	117+39	RT	NB INSIDE LANE	-	-	16	-	9	-	38	-
117+58	-	117+64	LT	SB INSIDE LANE	-	-	16	-	9	-	38	-
117+92	-	117+98	RT	NB OUTSIDE LANE	-	-	16	-	9	-	38	-
118+09	-	118+15	LT	SB INSIDE LANE	-	-	26	-	11	-	44	-
118+05	-	118+92	RT	NB LANES	-	44	46	-	-	186	245	-
118+24	-	118+30	LT	SB INSIDE LANE	-	-	28	-	12	-	48	-
118+35	-	118+65	LT	SB OUTSIDE LANE	-	16	20	-	-	26	65	-
118+65	-	118+71	LT	SB OUTSIDE LANE	-	8	16	-	-	11	40	-
118+89	-	119+18	LT	SB LANES	-	22	16	-	-	43	80	-
118+92	-	D	RT	NB LANES	-	26	48	-	-	74	135	-
119+56	-	119+61	RT	NB INSIDE LANE	-	-	16	-	8	-	30	-
119+59	-	119+89	RT	NB OUTSIDE LANE	-	12	16	-	-	33	80	-
119+61	-	119+67	LT	SB LANES	-	-	32	-	15	-	56	-
120+01	-	120+07	LT	SB LEFT TURN LANE	-	-	16	-	8	-	36	-
120+22	-	120+28	LT	SB LEFT TURN LANE	-	-	16	-	8	-	36	-
120+45	-	120+64	LT	SB OUTSIDE LANE	-	8	18	-	-	22	70	-
120+50	-	120+90	RT	NB OUTSIDE	40	-	-		-	-	-	40
120+61	-	120+67	LT	SB INSIDE LANES	-	-	32	-	17	-	62	-
120+51	-	120+64	RT	NB LANES	-	10	32	-	-	34	75	-
120+85	-	120+96	LT	SB OUTSIDE LANE	-	10	16	-	-	17	50	-
120+95	-	121+36	LT	SB INSIDE LANE / MEDIAN	-	32	32	-	-	68	130	-
121+04	-	121+17	RT	NB OUTSIDE LANE	-	10	16	-	-	18	50	-
121+85	-	122+00	LT	SB INSIDE LANE	-	12	14	-	-	18	52	-
121+81	-	122+64	RT	NB OUTSIDE LANE	-	66	16	-	-	117	190	-

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN THE PLAN

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

CONCRETE REPAIR AND REPLACEMENT CONTINUED

STATION	-	STATION	OFFSET	LOCATION (PWR)	204.0150* REMOVING CURB & GUTTER LF	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	416.0750.S CONCRETE PAVEMENT PARTIAL DEPTH JOINT REPAIR LF	416.1715 CONCRETE PAVEMENT REPAIR SHES SY	416.1725 CONCRETE PAVEMENT REPLACEMENT SHES SY	690.0250* SAWING CONCRETE LF	SPV.0090.1000 CONCRETE CURB AND GUTTER 31-INCH SHES LF
122+00	-	122+06	LT	SB OUTSIDE LANE	-	-	16	-	8	-	36	-
122+64	-	122+70	RT	NB INSIDE LANE	-	-	16	-	8	-	36	-
122+95	-	122+23	LT	SB INSIDE LANE	-	22	16	-	-	33	80	-
123+08	-	123+44	RT	NB OUTSIDE LANE	-	18	16	-	-	56	70	-
123+19	-	123+25	LT	SB OUTSIDE LANE	-	-	16	-	8	-	36	-
123+16	-	123+42	RT	NB INSIDE LANE	-	20	18	-	-	39	80	-
123+39	-	123+45	LT	SB OUTSIDE LANE	-	-	16	-	8	-	36	-
123+42	-	123+56	LT	MEDIAN	-	12	16	-	-	18	60	-
123+52	-	123+87	RT	NB OUTSIDE	36	-	-	-	-	-	36	36
123+63	-	123+84	LT/RT	MEDIAN	-	18	16	-	-	25	65	-
124+03	-	124+09	LT	SB INSIDE LANES	-	-	32	-	15	-	58	-
124+20	-	124+26	LT	SB OUTSIDE LANE	-	-	16	-	8	-	36	-
124+23	-	124+62	LT	SB INSIDE LANE	-	32	16	-	-	48	100	-
124+58	-	124+64	LT	SB OUTSIDE LANE	-	-	16	-	8	-	36	-
124+30	-	124+49	RT	NB OUTSIDE LANE	-	14	16	-	-	26	62	-
124+58	-	124+91	RT	NB OUTSIDE	34	-	-	-	-	-	-	34
124+89	-	124+95	LT	SB OUTSIDE LANE	-	-	16	-	8	-	36	-
125+00	-	125+15	LT	SB INSIDE LANE	-	12	16	-	-	17	50	-
125+15	-	125+21	LT	SB OUTSIDE LANE	-	-	16	-	8	-	36	-
125+82	-	125+88	LT	SB OUTSIDE LANE	-	-	16	-	8	-	36	-
126+29	-	126+43	LT	SB OUTSIDE LANE	-	12	16	-	-	17	50	-
126+40	-	126+46	LT	SB INSIDE LANES	-	-	32	-	15	-	58	-
126+70	-	126+81	LT	SB OUTSIDE LANE	-	10	16	-	-	13	45	-
126+83	-	127+11	RT	NB OUTSIDE	28	-	-	-	-	-	-	28
126+97	-	127+23	LT	SB INSIDE LANE	-	22	16	-	-	36	80	-
127+63	-	127+69	LT	SB LANES	-	-	32	-	16	-	60	-
127+80	-	127+86	LT	SB INSIDE LANE	-	-	16	-	8	-	36	-
128+01	-	128+07	LT	SB INSIDE LANE	-	-	16	-	8	-	36	-
128+21	-	128+27	LT	SB INSIDE LANE	-	-	16	-	8	-	36	-
128+72	-	128+78	RT	NB LANES	-	-	32	-	16	-	60	-
128+80	-	128+86	LT	SB LANES	-	-	32	-	16	-	60	-
128+91	-	128+97	LT	SB OUTSIDE LANE	-	-	16	-	8	-	36	-
128+98	-	129+19	LT	SB OUTSIDE	20	-	-	-	-	-	-	20
128+97	-	128+03	RT	NB LANES	-	-	32	-	16	-	60	-
129+02	-	129+08	LT	SB LANES	-	-	32	-	16	-	60	-
129+22	-	129+28	RT	NB LANES	-	-	32	-	16	-	60	-
129+85	-	130+48	RT	NB OUTSIDE	63	-	-	-	-	-	-	63
129+97	-	130+03	LT	SB INSIDE LANE	-	-	16	-	8	-	36	-

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN THE PLAN

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

CONCRETE REPAIR AND REPLACEMENT CONTINUED

STATION	-	STATION	OFFSET	LOCATION (PWR)	204.0150* REMOVING CURB & GUTTER LF	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	416.0750.S CONCRETE PAVEMENT PARTIAL DEPTH JOINT REPAIR LF	416.1715 CONCRETE PAVEMENT REPAIR SHES SY	416.1725 CONCRETE PAVEMENT REPLACEMENT SHES SY	690.0250* SAWING CONCRETE LF	SPV.0090.1000 CONCRETE CURB AND GUTTER 31-INCH SHES LF
130+19	-	130+25	RT	NB OUTSIDE LANE	-	-	16	-	8	-	36	-
130+38	-	130+44	RT	NB OUTSIDE LANE	-	-	16	-	8	-	36	-
130+87	-	131+14	RT	NB LANES	-	22	32	-	-	73	108	-
130+92	-	131+16	LT	SB INSIDE LANE	-	20	16	-	-	31	75	-
131+78	-	132+26	RT	NB INSIDE LANE	-	40	16	-	-	67	125	-
131+98	-	132+23	LT	INTERSECTION	-	20	16	-	-	33	75	-
132+29	-	132+40	LT	SB INSIDE LANE / LEFT TURN LANE	-	10	32	-	-	28	70	-
132+87	-	132+97	LT	SB OUTSIDE	10	-	-	-	-	-	-	10
133+53	-	134+32	LT	SB RIGHT TURN LANE TAPER	30	55	8	-	-	62	180	30
133+89	-	134+37	RT	NB RIGHT TURN LANE TAPER	-	20	6	-	-	24	105	-
133+89	-	134+37	RT	NB INSIDE LANE	-	38	32	-	-	61	120	-
134+30	-	134+36	LT	SB OUTSIDE LANE	-	-	16	-	8	-	36	-
134+34	-	134+40	RT	NB LANES	-	-	36	-	15	-	56	-
134+57	-	134+63	LT	SB OUTSIDE LANE	-	-	16	-	8	-	36	-
134+73	-	134+79	RT	NB OUTSIDE LANES	-	-	44	-	21	-	76	-
134+77	-	134+83	RT	NB LEFT TURN LANE	-	-	16	-	8	-	36	-
134+97	-	135+65	LT	SB RIGHT TURN LANE	54	27	16	-	-	66	96	54
135+25	-	135+49	RT	NB OUTSIDE LANE	-	20	16	-	-	31	72	-
135+70	-	135+76	RT	NB OUTSIDE LANE	-	-	16	-	8	-	36	-
135+71		135+77	LT	SB LEFT TURN LANE	-	-	16	-	8	-	36	-
136+46	-	137+13	LT	SB RIGHT TURN LANE TAPER	-	27	8	-	-	37	150	-
136+49	-	136+55	RT	NB LANES	-	-	34	-	17	-	64	-
136+68	-	136+74	RT	NB LANES	-	-	34	-	17	-	64	-
136+90	-	136+96	RT	NB LANES	-	-	38	-	20	-	72	-
137+11	-	137+31	RT	NB INSIDE LANE	-	16	16	-	-	24	62	-
137+73	-	138+53	RT	NB OUTSIDE LANE	-	64	16	-	-	103	185	-
138+57	-	138+63	RT / LT	NB LANES / MEDIAN	-	-	96	-	47	-	152	-
138+88	-	138+94	RT	NB LEFT TURN LANE	-	-	16	-	8	-	36	-
138+91	-	139+15	RT	NB INSIDE LANE	-	20	16	-	-	31	72	-
139+25	-	139+31	LT	SB INSIDE LANE	-	-	16	-	8	-	36	-
139+43	-	139+49	LT	SB INSIDE LANE	-	-	16	-	8	-	36	-
139+68	-	139+74	RT	NB LANES	-	-	64	-	32	-	108	-
139+79	-	139+85	RT	NB LANES	-	-	64	-	32	-	108	-
139+86	-	139+92	LT	SB RIGHT TURN LANE	-	-	16	-	8	-	36	-
140+41	-	140+70	RT	NB LANES	-	16	34	-	-	67	115	-
UNDISTRIBUTED			-	-	33	95	232	500	74	195	692	33
PROJECT 1229-04-70 TOTAL					363	1047	2548	500	817	2147	7614	363

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN THE PLAN

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

FINISHING ROADWAY

LOCATION	213.0100 FINISHING ROADWAY 1229-04-70 EACH
PROJECT 1229-04-70	1
PROJECT 1229-04-70 TOTAL	1

AGGREGATE ITEMS

STATION	TO	STATION	OFFSET	LOCATION	211.0400 PREPAIR FOUNDATION FOR ASPHALIC SHOULDERS STA	305.0120 BASE AGGREGATE DENSE 1 1/4 INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	645.0220 GEOGRID TYPE SR SY
STAGE 1								
1271+08	-	1310+00	LT	IH 43 SB	39	2,917	2,610	4,349
1275+88	-	1278+54	RT	IH 43 NB	--	181	162	269
1278+54	-	1310+00	RT	IH 43 NB	35	2,331	2,086	3,476
1312+00	-	1329+25	LT	IH 43 SB	18	1,289	1,154	1,922
1312+00	-	1327+75	RT	IH 43 NB	16	1,168	1,044	1,741
1330+75	-	1367+93	RT	IH 43 NB	38	2,988	2,671	4,453
1332+25	-	1366+76	LT	IH 43 SB	35	2,560	2,291	3,818
1578+00	-	1619+94	RT	IH 43 NB	42	3,761	3,364	5,606
1624+91	-	1641+03	RT	IH 43 NB	17	1,413	1,264	2,107
1651+17	-	1685+97	RT	IH 43 NB	26	2,923	2,614	4,357
1687+30	-	1764+74	RT	IH 43 NB	78	6,911	6,181	10,302
1771+47	-	1787+00	RT	IH 43 NB	16	1,319	1,179	1,965
STAGE 1 SUBTOTAL					360	29,761	26,620	44,365
STAGE 2								
1272+83	-	1310+00	LT	IH 43 SB	--	1,514	3,895	6,491
1278+54	-	1310+00	RT	IH 43 NB	--	924	2,376	3,959
1312+00	-	1329+04	LT	IH 43 SB	--	748	1,924	3,206
1312+00	-	1327+75	RT	IH 43 NB	--	575	1,480	2,467
1330+75	-	1364+43	RT	IH 43 NB	--	1,025	2,635	4,392
1332+25	-	1363+81	LT	IH 43 SB	--	979	2,518	4,196
STAGE 2 SUBTOTAL					--	5,765	14,828	24,711
UNDISTRIBUTED					--	5,329	6,217	--
PROJECT 1229-04-70 TOTAL					360	35,526	41,448	69,076

NOTE:
BASE AGGREGATE DENSE = 2 TON/CY
SELECT CRUSHED = 1.8 TON/CY

REMOVING OVERHEAD SIGNS

STATION	OFFSET	LOCATION	204.9105.S.0001 REMOVING OVERHEAD SIGN STRUCTURE S-40-16 LS	204.9105.S.0002 REMOVING OVERHEAD SIGN STRUCTURE S-45-401 LS
1280+28	78' RT	IH 43 NB	1	-
1337+16	85' LT	IH 43 SB	-	1
PROJECT 1229-04-70 TOTAL			1	1

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

HMA PAVEMENT ITEMS

STATION	TO	STATION	OFFSET	LOCATION	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON
STAGE 1							
1271+08	-	1310+00	LT	IH 43 SB	608	1,410	513
1275+88	-	1278+54	RT	IH 43 NB	37	87	32
1278+54	-	1310+00	RT	IH 43 NB	487	1,128	410
1312+00	-	1329+25	LT	IH 43 SB	270	625	227
1312+00	-	1327+75	RT	IH 43 NB	244	565	206
1330+75	-	1367+93	RT	IH 43 NB	623	1,444	525
1332+25	-	1366+76	LT	IH 43 SB	536	1,243	452
1578+00	-	1619+94	RT	IH 43 NB	614	1,424	518
1624+91	-	1641+03	RT	IH 43 NB	266	617	224
1660+50	-	1685+97	RT	IH 43 NB	427	989	360
1687+30	-	1764+74	RT	IH 43 NB	1,221	2,831	1,029
1771+47	-	1787+00	RT	IH 43 NB	259	600	218
STAGE 1 SUBTOTAL					5,592	12,963	4,714
STAGE 2							
1272+83	-	1310+00	LT	IH 43 SB	909	2,106	766
1278+54	-	1310+00	RT	IH 43 NB	554	1,285	467
1312+00	-	1329+04	LT	IH 43 SB	449	1,040	378
1312+00	-	1327+75	RT	IH 43 NB	345	801	291
1330+75	-	1364+43	RT	IH 43 NB	615	1,425	518
1332+25	-	1363+81	LT	IH 43 SB	587	1,362	495
STAGE 2 SUBTOTAL					3,459	8,019	2,915
PROJECT 1229-04-70 TOTAL					9,051	20,982	7,629

RIPRAP

STATION	OFFSET	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120* GEOTEXTILE TYPE HR SY
1285+82	88' RT	IH 43 NB	5	18
1286+05	88' RT	IH 43 NB	3	11
1314+77	89' RT	IH 43 NB	3	12
PROJECT 1229-04-70 TOTAL			11	41

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN THE PLAN

TEMPORARY SHORING LEFT IN PLACE

STATION		STATION	OFFSET	LOCATION	511.2300.0001 TEMPORARY SHORING LEFT IN PLACE STA 1316+60 TO STA 1323+50 SF
STAGE 2					
1316+60	-	1370+00	LT	IH 43 SB	67.40
1317+00	-	1317+50	LT	IH 43 SB	125.00
1317+50	-	1318+00	LT	IH 43 SB	170.50
1318+00	-	1318+50	LT	IH 43 SB	195.75
1318+50	-	1319+00	LT	IH 43 SB	212.75
1319+00	-	1319+50	LT	IH 43 SB	221.25
1319+50	-	1320+00	LT	IH 43 SB	208.00
1320+00	-	1320+50	LT	IH 43 SB	186.75
1320+50	-	1321+00	LT	IH 43 SB	184.75
1321+00	-	1321+50	LT	IH 43 SB	212.25
1321+50	-	1322+00	LT	IH 43 SB	223.25
1322+00	-	1322+50	LT	IH 43 SB	202.50
1322+50	-	1323+00	LT	IH 43 SB	176.00
1323+00	-	1323+50	LT	IH 43 SB	145.00
PROJECT 1229-04-70 TOTAL					2,531

CONCRETE BARRIER TEMPORARY PRECAST

STATION		STATION	OFFSET	LOCATION	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	SPV.0090.0500 CONCRETE BARRIER TEMPORARY PRECAST LEFT IN PLACE LF	603.8500 ANCHORING CONCRETE BARRIER TEMPORARY PRECAST LF
STAGE 2								
1270+56	-	1367+58	LT	IH 43 SB	9,730	9,730	-	-
1274+16	-	1370+06	RT	IH 43 NB	9,563	9,563	-	-
STAGE 2 SUBTOTAL					19,293	19,293	0	0
STAGE 3								
1273+97	-	1309+88	LT	IH 43 SB	-	3,617	3,617	-
1276+02	-	1294+50	RT	IH 43 NB	-	1,770	1,770	-
1294+50	-	1306+00	RT	IH 43 NB	-	1,150	1,150	1,150
1306+00	-	1310+00	RT	IH 43 NB	-	393	393	-
1312+00	-	1329+15	LT	IH 43 SB	-	1,725	1,725	-
1312+10	-	1327+75	RT	IH 43 NB	-	1,554	1,554	-
1330+85	-	1367+93	RT	IH 43 NB	-	3,709	3,709	-
1332+25	-	1366+66	LT	IH 43 SB	-	3,440	3,440	-
STAGE 3 SUBTOTAL					0	17,358	17,358	1,150
PROJECT 1229-04-70 TOTAL					19,293	36,651	17,358	1,150

NOTE:
STAGE 3 CONCRETE BARRIER TEMPORARY PRECAST MOVED FROM STAGE 2 LOCATION.
SEE TYPICAL SECTIONS AND TRAFFIC CONTROL PLAN.

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

APRON ENDWALLS AND PIPE GRATES

ROADWAY	PIPE ID	ENDWALL ID	ENDWALL ELEVATION	ENDWALL STATION	ENDWALL OFFSET	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.2619 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19x30-INCH EACH	611.9800.S PIPE GRATES EACH	633.5200 MARKERS CULVERT END EACH
IH 43												
	P106	105	673.36	1285+59	86' LT	--	--	--	--	1	1	1
	P104	104A	673.35	1285+82	89' RT	--	--	--	1	--	--	1
	P110	111	672.83	1286+05	89' RT	--	--	--	--	1	--	1
	P134	133	671.27	1292+76	86' LT	--	--	--	1	--	1	1
	P136	135	671.40	1293+11	85' LT	--	--	--	1	--	1	1
	P226	225	658.57	1310+00	80' RT	1	--	--	--	--	1	1
	P233	234	659.09	1314+77	89' RT	--	1	--	--	--	--	1
	P382	381	665.95	1332+95	84' RT	--	--	1	--	--	1	1
TOTALS						1	1	1	3	2	5	8

NOTES
1) ENDWALL ELEVATION / STATION / OFFSET ARE TO END CENTER OF ENDWALL
2) PIPE LENGTHS AND SLOPES ARE MEASURED TO THE END OF PIPE

CONCRETE COLLARS FOR PIPE

ROADWAY	STATION	OFFSET	PIPE ID	SIZE (IN)	520.8000 CONCRETE COLLARS FOR PIPE EACH
IH 43					
	1285+17	95' RT	PE102	24	1
	1285+64	68' LT	PE107	12	1
	1286+00	70' RT	PE109	12	1
	1289+84	77' LT	PE126	12	1
	1292+93	88' LT	PE138	24	1
	1295+16	74' RT	PE142	15	1
	1295+16	76' RT	PE144	15	1
	1307+11	81' RT	PE198	12	1
	1307+12	79' RT	PE200	12	1
	1314+81	78' RT	PE232	15	1
TOTAL					10

PIPE CONNECTION TO EXISTING STRUCTURE

ROADWAY	STRUCTURE ID	STATION	OFFSET	SPV.0060.8015 PIPE CONNECTION TO EXISTING STRUCTURE EACH
IH 43				
	E151	1293+72	80' RT	1
	E187	1305+16	73' RT	1
	E227	1310+08	83' RT	1
	E207	1311+90	80' LT	1
	E213	1311+91	77' RT	1
	E303	1332+75	80' LT	1
	E385	1332+78	80' RT	1
	E379	1337+60	79' RT	1
	E373	1337+85	78' LT	1
	E355	1344+58	78' LT	1
	E361	1344+60	79' RT	1
	E333	1351+08	79' LT	1
	E341	1351+10	79' RT	1
	E323	1357+07	78' LT	1
	E329	1357+08	79' RT	1
TOTAL				15

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
IH 43	E101	1285+02.37	117.1	RT	677.56	---	---	---	---	PE102	E101	103	---	673.66	---	---	---	---	24	EXIST PIPE INTERPOL ELEV
IH 43	103	1285+18.23	93.2	RT	677.79	MANHOLES 4-FT DIAMETER	J-SPECIAL	4.13	---	P104	103	104A	673.66	673.38	0.50	55	57	III	24	TO ENDWALL
---	---	---	---	---	---	---	---	--	---	P106	105	PE107	674.33	674.27	0.49	12	12	HE-III	19x30	FROM ENDWALL
---	---	---	---	---	---	---	---	--	---	PE107	P106	E108	674.27	---	---	---	---	---	12	EXIST PIPE INTERPOL ELEV
IH 43	E108	1285+81.53	1.3	RT	676.15	---	---	---	---	PE109	E108	P110	---	673.09	---	---	---	---	12	EXIST PIPE INTERPOL ELEV
---	---	---	---	---	---	---	---	--	---	P110	PE109	111	673.09	672.91	1.30	14	14	HE-III	19x30	TO ENDWALL
IH 43	E125	1289+84.15	1.5	RT	672.84	---	---	---	---	PE126	E125	127	---	670.38	---	---	---	---	12	EXIST PIPE INTERPOL ELEV
IH 43	127	1289+83.63	79.0	LT	673.71	MANHOLES 4-FT DIAMETER	J-SPECIAL	3.33	---	P128	127	129	670.38	667.96	0.80	302	306	III	12	---
IH 43	129	1292+89.49	79.0	LT	673.27	MANHOLES 4-FT DIAMETER	J-SPECIAL	5.31	---	P130	129	137	667.96	667.94	0.80	3	7	III	12	---
---	---	---	---	---	---	---	---	--	---	P134	133	137	670.13	668.47	18.62	9	11	III	18	FROM ENDWALL
---	---	---	---	---	---	---	---	--	---	P136	135	137	670.21	668.47	19.51	9	11	III	18	FROM ENDWALL
IH 43	137	1292+93.23	85.5	LT	672.34	MANHOLES 5-FT DIAMETER	J-SPECIAL	4.81	---	PE138	137	E139	667.53	---	---	---	---	---	24	EXIST PIPE INTERPOL ELEV
IH 43	E141	1295+15.24	1.4	RT	669.04	---	---	---	---	PE142	E141	143	---	666.49	---	---	---	---	15	EXIST PIPE INTERPOL ELEV
IH 43	143	1295+16.45	74.8	RT	669.42	INLETS MEDIAN 1 GRATE	MS	2.93	---	PE144	143	E147	666.49	---	---	---	---	---	15	EXIST PIPE INTERPOL ELEV
IH 43	E147	1295+16.57	81.8	RT	670.98	---	---	---	---	PE148	E147	E151	---	---	---	---	---	---	18	EXIST PIPE INTERPOL ELEV

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES									
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
IH 43	149	1293+78.35	84.1	RT	670.06	INLETS MEDIAN 1 GRATE	MS	2.06	---	P150	149	E151	668.00	667.89	2.00	6	9	III	12	---
IH 43	E151	1293+70.59	79.2	RT	669.48	---	---	---	---	PE152	E151	---	---	---	---	---	---	---	24	EXIST PIPE INTERPOL ELEV
IH 43	183	1305+15.68	69.3	RT	666.84	INLETS MEDIAN 1 GRATE	MS	3.69	---	P184	183	E187	663.15	663.10	2.00	3	6	III	12	---
IH 43	E187	1305+15.67	75.2	RT	667.45	---	---	---	---	PE188	E187	E201	---	---	---	---	---	---	24	EXIST PIPE INTERPOL ELEV
IH 43	189	1307+00.00	82.9	LT	665.49	INLETS MEDIAN 1 GRATE	MS	4.97	---	P190	189	E191	660.52	660.42	2.00	5	9	III	12	---
IH 43	E197	1306+99.81	147.9	RT	673.26	---	---	---	---	PE198	E197	199	---	660.66	---	---	---	---	12	EXIST PIPE INTERPOL ELEV
IH 43	199	1307+11.70	80.0	RT	663.10	INLETS MEDIAN 1 GRATE	MS	2.55	---	PE200	199	E201	660.55	---	---	---	---	---	12	EXIST PIPE INTERPOL ELEV
IH 43	E201	1307+12.73	74.1	RT	664.15	---	---	---	---	PE202	E201	E227	---	---	---	---	---	---	24	EXIST PIPE INTERPOL ELEV
IH 43	205	1312+00.00	86.6	LT	659.91	INLETS MEDIAN 1 GRATE	MS	2.08	---	P206	205	E207	657.83	657.68	1.50	10	14	III	18	---
IH 43	E207	1311+88.67	79.4	LT	659.68	---	---	---	---	PE208	E207	E209	---	---	---	---	---	---	18	EXIST PIPE INTERPOL ELEV
IH 43	E209	1311+88.18	4.3	LT	658.64	---	---	---	---	PE210	E209	E213	---	---	---	---	---	---	18	EXIST PIPE INTERPOL ELEV
IH 43	211	1311+89.02	83.8	RT	658.03	INLETS MEDIAN 1 GRATE	MS	1.74	---	P212	211	E213	656.29	656.18	2.00	5	8	III	12	---
IH 43	E213	1311+89.02	76.0	RT	657.93	---	---	---	---	PE214	E213	E219	---	---	---	---	---	---	18	EXIST PIPE INTERPOL ELEV
---	---	---	---	---	---	---	---	--	---	P226	225	E227	658.51	658.49	1.00	2	6	III	12	FROM ENDWALL
IH 43	E227	1310+11.42	84.7	RT	663.39	---	---	---	---	PE228	E227	E229	---	---	---	---	---	---	60	EXIST PIPE INTERPOL ELEV

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
IH 43	E231	1315+07.18	3.1	LT	661.68	---	---	---	---	PE232	E231	P233	---	659.18	---	---	---	---	15	EXIST PIPE INTERPOL ELEV
---	---	---	---	---	---	---	---	--	---	P233	PE232	234	659.18	659.14	0.80	5	5	III	15	TO ENDWALL
IH 43	301	1333+00.04	83.9	LT	666.37	INLETS MEDIAN 1 GRATE	MS	3.46	---	P302	301	E303	662.91	662.16	3.00	25	28	III	18	---
IH 43	E303	1332+72.78	79.4	LT	664.91	---	---	---	---	PE304	E303	E305	---	---	---	---	---	---	18	---
IH 43	E305	1332+75.05	0.8	RT	665.92	---	---	---	---	PE306	E305	E385	---	---	---	---	---	---	18	---
IH 43	317	1357+13.37	82.8	RT	679.52	INLETS MEDIAN 1 GRATE	MS	3.99	---	P318	317	319	675.53	675.47	1.00	6	9	III	12	---
IH 43	319	1357+05.28	86.7	RT	681.44	MANHOLES 4-FT DIAMETER	J-SPECIAL	7.59	---	P320	319	E329	673.85	673.80	1.00	5	9	III	12	---
IH 43	321	1357+13.50	81.6	LT	680.31	INLETS MEDIAN 1 GRATE	MS	4.39	---	P322	321	E323	675.92	675.79	2.00	6	9	III	12	---
IH 43	E323	1357+05.32	77.1	LT	679.89	---	---	---	---	PE324	E323	E325	---	---	---	---	---	---	12	---
IH 43	E325	1357+05.42	0.4	RT	679.75	---	---	---	---	PE326	E325	E329	---	---	---	---	---	---	12	---
IH 43	E329	1357+05.30	77.3	RT	679.82	---	---	---	---	PE330	E329	E341	---	---	---	---	---	---	42	---
IH 43	331	1351+15.18	82.9	LT	677.74	INLETS MEDIAN 1 GRATE	MS	4.10	---	P332	331	E333	673.64	673.49	2.00	8	10	III	12	---
IH 43	E333	1351+05.81	78.2	LT	677.64	---	---	---	---	PE334	E333	E335	---	---	---	---	---	---	12	---
IH 43	E335	1351+08.38	0.2	RT	677.64	---	---	---	---	PE336	E335	E341	---	---	---	---	---	---	12	---
IH 43	337	1351+17.10	83.1	RT	677.43	INLETS MEDIAN 1 GRATE	MS	2.70	---	P338	337	339	674.73	674.60	2.00	6	10	III	12	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
---	---	---	---	---	---	---	---	--	---	PE338A	---	339	---	672.63	---	---	---	---	18	EXIST PIPE INTERPOL ELEV
IH 43	339	1351+07.90	85.9	RT	678.77	MANHOLES 4-FT DIAMETER	J-SPECIAL	6.64	---	P340	339	E341	672.13	672.11	0.50	4	9	III	18	---
IH 43	E341	1351+07.95	77.1	RT	677.71	---	---	---	---	PE342	E341	E361	---	---	---	---	---	---	42	---
IH 43	353	1344+68.04	85.1	LT	674.92	INLETS MEDIAN 1 GRATE	MS	3.00	---	P354	353	E355	671.92	671.70	2.00	11	14	III	12	---
IH 43	E355	1344+56.67	76.9	LT	674.87	---	---	---	---	PE356	E355	E357	---	---	---	---	---	---	12	---
IH 43	E357	1344+58.10	0.1	RT	675.01	---	---	---	---	PE358	E357	E361	---	---	---	---	---	---	12	---
IH 43	359	1344+57.80	85.0	RT	675.08	INLETS MEDIAN 1 GRATE	MS	2.47	---	P360	359	E361	672.61	672.49	2.00	4	8	III	12	---
IH 43	E361	1344+57.83	76.8	RT	675.07	---	---	---	---	PE362	E361	E379	---	---	---	---	---	---	42	---
IH 43	371	1337+77.03	82.8	LT	671.46	INLETS MEDIAN 1 GRATE	MS	3.28	---	P372	371	E373	668.18	668.10	1.50	5	9	III	12	---
IH 43	E373	1337+83.69	77.4	LT	670.25	---	---	---	---	PE374	E373	E375	---	---	---	---	---	---	12	---
IH 43	E375	1337+55.01	0.5	LT	670.75	---	---	---	---	PE376	E375	E379	---	---	---	---	---	---	12	---
IH 43	377	1337+57.90	84.2	RT	670.58	INLETS MEDIAN 1 GRATE	MS	2.51	---	P378	377	E379	668.07	667.96	2.00	4	8	III	12	---
IH 43	E379	1337+57.63	76.4	RT	670.55	---	---	---	---	PE380	E379	E385	---	---	---	---	---	---	42	---
---	---	---	---	---	---	---	---	--	---	P382	381	383	665.11	663.85	13.88	9	11	III	18	FROM ENDWALL
IH 43	383	1332+78.20	87.1	RT	667.69	MANHOLES 4-FT DIAMETER	J-SPECIAL	5.59	---	P384	383	E385	662.10	662.00	2.00	5	10	III	18	---
IH 43	E385	1332+77.84	77.4	RT	665.93	---	---	---	---	PE386	E385	---	---	---	---	---	---	---	48	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

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STORM SEWER STRUCTURE SUMMARY				
611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.0535 MANHOLE COVERS TYPE J SPECIAL EACH	611.0642 INLET COVERS TYPE MS EACH
6	1	16	7	16

STORM SEWER PIPE SUMMARY				
608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.2319 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 19X30-INCH LF
437	5	94	57	26

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

ADJUSTING MANHOLES AND VALVE BOXES

STATION	OFFSET	LOCATION	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	SPV.0060.5104** ADJUSTING SANITARY MANHOLE EACH	SPV.0060.5200*** ADJUSTING WATER VALVE BOXES EACH
115+13	40' RT	PORT WASHINGTON ROAD	-	-	1	-
115+55	42' RT	PORT WASHINGTON ROAD	1	-	-	-
115+60	40' RT	PORT WASHINGTON ROAD	-	-	1	-
116+07	29' RT	PORT WASHINGTON ROAD	-	1	-	-
118+32	24' RT	PORT WASHINGTON ROAD	-	-	-	1
118+41	25' RT	PORT WASHINGTON ROAD	-	-	-	1
118+43	25' RT	PORT WASHINGTON ROAD	-	-	-	1
118+45	22' RT	PORT WASHINGTON ROAD	-	-	-	1
123+23	25' LT	PORT WASHINGTON ROAD	-	-	-	1
123+26	20' RT	PORT WASHINGTON ROAD	-	-	-	1
123+36	27' RT	PORT WASHINGTON ROAD	-	-	-	1
125+02	30' LT	PORT WASHINGTON ROAD	-	-	-	1
125+08	27' LT	PORT WASHINGTON ROAD	-	-	-	1
126+77	50' LT	PORT WASHINGTON ROAD	1	-	-	-
126+82	19' RT	PORT WASHINGTON ROAD	-	1	-	-
128+95	39' LT	PORT WASHINGTON ROAD	1	-	-	-
PROJECT 1229-04-70 TOTAL			3	2	2	9

NOTE: ** ITEM IS CATEGORY 7010
*** ITEM IS CATEGORY 7020

CRASH CUSHIONS

STATION	OFFSET	LOCATION	614.0905 CRASH CUSHIONS TEMPORARY EACH	SPV.0060.0500 CRASH CUSHIONS TEMPORARY LEFT IN PLACE EACH	BACK WIDTH FT	OBJECT MARKING PATTERN	CRASH TEST LEVEL	TRAFFIC DIRECTION	TRAFFIC LOCATION	CRASH CUSHION SHIELDS
STAGE 2										
1274+16	68.3' RT	IH 43 NB	1	-	2	OM-3R (WO5-58R)	TL-3	UNIDIRECTIONAL	L	TEMPORARY CONCRETE BARRIER ON SHOULDER
1370+06	63.9' LT	IH 43 SB	1	-	2	OM-3R (WO5-58R)	TL-3	UNIDIRECTIONAL	L	TEMPORARY CONCRETE BARRIER ON SHOULDER
STAGE 2 SUBTOTAL			2	0						
STAGE 3										
1276+02	68.4' RT	IH 43 NB	-	1	2	OM-3R (WO5-58R)	TL-3	UNIDIRECTIONAL	L	TEMPORARY CONCRETE BARRIER ON SHOULDER
1309+88	74.9' LT	IH 43 SB	-	1	2	OM-3R (WO5-58R)	TL-3	UNIDIRECTIONAL	L	TEMPORARY CONCRETE BARRIER ON SHOULDER
1312+10	75.1' RT	IH 43 NB	-	1	2	OM-3R (WO5-58R)	TL-3	UNIDIRECTIONAL	L	TEMPORARY CONCRETE BARRIER ON SHOULDER
1329+14	76.2' LT	IH 43 SB	-	1	2	OM-3R (WO5-58R)	TL-3	UNIDIRECTIONAL	L	TEMPORARY CONCRETE BARRIER ON SHOULDER
1330+85	74.9' RT	IH 43 NB	-	1	2	OM-3R (WO5-58R)	TL-3	UNIDIRECTIONAL	L	TEMPORARY CONCRETE BARRIER ON SHOULDER
1366+66	63.1' LT	IH 43 SB	-	1	2	OM-3R (WO5-58R)	TL-3	UNIDIRECTIONAL	L	TEMPORARY CONCRETE BARRIER ON SHOULDER
STAGE 3 SUBTOTAL			0	6						
PROJECT 1229-04-70 TOTAL			2	6						

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

RECONSTRUCTING STRUCTURES

LOCATION	STRUCTURE ID	STATION	OFFSET FT	EXISTING RIM ELEVATION	TO	PROPOSED RIM ELEVATION	611.0420 RECONSTRUCTING MANHOLES EACH
IH 43							
	E227	1310+11	85' RT	663.39		660.32	1
TOTALS							1

* VERIFY EXISTING RIM ELEVATION IN FIELD

PIPE UNDERDRAIN

ROADWAY	BEGIN STATION	END STATION	LOCATION	612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH LF	612.0700 DRAIN TILE EXPLORATION LF
IH 43					
	1277+00	1292+88	SB	1,600	--
	1275+90	1295+15	NB	2,034	--
	1294+50	1310+08	NB	1,570	--
	1312+00	1322+96	NB	1,100	--
	1323+00	1329+78	SB	678	--
	1323+06	1328+19	NB	513	--
	1330+22	1367+93	NB	3,782	--
	1331+82	1366+76	SB	3,505	--
	UNDISTRIBUTED			500	500
TOTALS				15,282	500

APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH

ROADWAY	STATION	OFFSET	INVERT ELEVATION	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH
IH 43				
	1278+50	88' RT	680.11	1
	1280+50	90' RT	679.30	1
	1282+50	106' RT	677.42	1
	1286+00	84' LT	674.50	1
	1287+50	90' RT	671.97	1
	1317+00	86' RT	663.50	1
TOTAL				6

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

3

SAFETY FENCE

STATION			OFFSET	LOCATION	616.0700.S FENCE SAFETY LF
1282+15	-	1298+11	LT	IH 43 SB	1598
1284+12	-	1295+38	RT	IH 43 NB	1126
1306+12	-	1306+50	RT	IH 43 NB	38
UNDISTRIBUTED					116
PROJECT 1229-04-70 TOTAL					1,280

MOBILIZATION

LOCATION	619.1000 MOBILIZATION EACH
PROJECT 1229-04-70	1
PROJECT 1229-04-70 TOTAL	1

3

WATER

LOCATION	624.0100 WATER MGAL	630.0500 SEED WATER MGAL
AGGREGATE COMPACTION	150	--
EARTHWORK COMPACTION	20	--
DUST CONTROL	50	--
SEEDED AREAS	--	250
PROJECT 1229-04-70 TOTAL	220	250

RESTORATION

STATION	TO	STATION	OFFSET	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING SY	628.2004 EROSION MAT CLASS 1 TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB
1271+08	-	1311+00	RT	IH 43 NB	4,542	--	4542	2.8	82	41
1271+08	-	1311+00	LT	IH 43 SB	5,610	--	5610	3.6	101	51
1311+00	-	1330+00	LT	IH 43 SB	2,599	--	2599	1.7	47	24
1311+00	-	1330+00	RT	IH 43 NB	5,075	--	5075	3.2	91	46
1330+00	-	1368+00	RT	IH 43 NB	8,423	--	8423	5.4	151	76
1330+00	-	1368+00	LT	IH 43 SB	6,234	--	6234	3.9	112	56
114+83	-	140+70	RT/LT	PWR	117	--	117	0.1	2	--
UNDISTRIBUTED					3,260	2,500	3,260	2.1	59	29
PROJECT 1229-04-70 TOTAL					35,860	2,500	35,860	22.8	645	323

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

EROSION CONTROL

STATION	TO	STATION	OFFSET	LOCATION	628.1104** EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECK EACH	628.7570 ROCK BAGS EACH	628.7560 TRACKING PADS EACH	SPV.0060.0005 EROSION CONTROL FILTER BAGS EACH	SPV.0090.0301 HEAVY DUTY SILT FENCE LF
1271+05	-	1310+03	LT	IH 43 SB	--	--	--	--	--	160	9	--	--	--	714
1271+05	-	1310+03	RT	IH 43 NB	--	1,406	1,406	--	--	140	1	40	--	--	--
1311+50	-	1330+00	LT	IH 43 SB	--	--	--	--	--	60	--	--	--	--	--
1311+50	-	1330+00	RT	IH 43 NB	--	--	--	--	--	80	--	--	--	--	--
1330+00	-	1368+00	LT	IH 43 SB	--	195	195	--	--	60	1	--	--	--	--
1330+00	-	1368+00	RT	IH 43 NB	--	301	301	--	--	100	1	--	--	--	--
1578+00	-	1619+94	RT	IH 43 NB	--	4,206	4,206	--	--	--	--	20	--	--	--
1624+91	-	1641+03	RT	IH 43 NB	--	3,453	3,453	--	--	--	--	--	--	--	--
1651+17	-	1685+97	RT	IH 43 NB	--	2,969	2,969	--	--	--	--	20	--	--	552
1687+30	-	1764+74	RT	IH 43 NB	--	7,735	7,735	--	--	--	--	60	--	--	--
1771+91	-	1787+00	RT	IH 43 NB	--	1,448	1,448	--	--	--	--	--	--	--	--
UNDISTRIBUTED					130	3,257	3,257	4	4	90	2	100	4	2	190
PROJECT 1229-04-70 TOTAL					130	24,970	24,970	4	4	690	14	240	4	2	1,456

**NOTE: ITEM TO BE USED FOR TEMPORARY SETTLING BASIN

SIGNS FIXED MESSAGE

SPV.0165.0500
TRAFFIC CONTROL
SIGNS FIXED MESSAGE
LEFT IN PLACE

SIGN NUMBER	LOCATION	SF
FMS - 1	IH 43	39
FMS - 2	IH 43	60
FMS - 3	IH 43	78
FMS - 4	IH 43	90
FMS - 5	IH 43	35
FMS - 6	IH 43	39
FMS - 7	IH 43	50
FMS - 9	IH 43	139
FMS - 10	IH 43	54
FMS - 11	IH 43	58
FMS - 12	IH 43	64
FMS - 13	IH 43	63
FMS - 14	IH 43	30
FMS - 15	IH 43	63
FMS - 16	IH 43	40
FMS - 17	IH 43	96
G20-63	IH 43	18
PROJECT 1229-04-70 TOTAL		1,016

INLET PROTECTION

STATION	TO	STATION	LOCATION	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
1284+00	-	1313+00	IH 43	18	8	23	7
1328+00	-	1366+00	IH 43	8	9	--	9
114+83	-	140+70	PORT WASHINGTON ROAD	--	5	36	--
PROJECT 1229-04-70 TOTAL				26	22	59	16

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

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TRAFFIC CONTROL

STAGE		LOCATION	STATION	TO	STATION	STAGE DURATION DAYS	638.2602* REMOVING SIGNS TYPE II EACH	638.3000* REMOVING SMALL SIGN SUPPORTS EACH	643.0300* TRAFFIC CONTROL DRUMS EACH**	643.0300* TRAFFIC CONTROL DRUMS DAY	643.0420* TRAFFIC CONTROL BARRICADES TYPE III EACH**	643.0420* TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705* TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH**	643.0705* TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715* TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH**	643.0715* TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800* TRAFFIC CONTROL ARROW BOARDS EACH**	643.0800* TRAFFIC CONTROL ARROW BOARDS DAY	643.0900* TRAFFIC CONTROL SIGNS EACH**	643.0900* TRAFFIC CONTROL SIGNS DAY
1 PWR	NB SB	PWR - NB OUTSIDE	114+83	-	140+70	14	--	--	90	1,260	4	56	8	112	12	168	1	14	13	182
1 PWR	NB SB	PWR - NB INSIDE	114+83	-	140+70	13	--	--	90	1,170	4	52	8	104	12	156	1	13	13	169
1 PWR	NB SB	PWR - SB OUTSIDE	114+83	-	140+70	13	--	--	90	1,170	4	52	8	104	12	156	1	13	13	169
1 PWR	NB SB	PWR - SB INSIDE	114+83	-	140+70	13	--	--	90	1,170	4	52	8	104	12	156	1	13	13	169
1 South	NB SB	IH 43	1113+00	-	1413+50	35	--	--	430	15,050	34	1,190	68	2,380	74	2,590	5	175	71	2,485
1 North	NB SB	IH 43	1413+50	-	1787+00	78	--	--	343	26,754	16	1,248	32	2,496	44	3,432	2	156	33	2,574
1A	NB SB	IH 43	1246+00	-	1285+00	35	--	--	33	1,155	4	140	8	280	8	280	--	--	5	175
1B	NB SB	IH 43	1543+00	-	1672+50	3	--	--	118	354	15	45	30	90	15	45	2	6	30	90
1C	NB SB	IH 43	1688+00	-	1789+00	3	--	--	97	291	8	24	16	48	15	45	2	6	22	66
2	NB SB	IH 43	1246+00	-	1406+00	32	--	--	53	1,696	6	192	12	384	17	544	2	64	39	1,248
3	NB SB	IH 43	1256+00	-	1368+00	11	3	3	--	--	--	--	--	--	--	--	--	--	3	33
UNDISTRIBUTED							--	--		5,007		305		610		757		46		736
PROJECT 1229-04-70 TOTAL							3	3		55,077		3,356		6,712		8,329		506		8,096

**FOR INFORMATION ONLY

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

S:\DOT\DOT_SE\200557 I43 Final Design\12290470\SheetsOther\12290470_MQ.ppt PLOT DATE : 4/1/2021 8:51:56 AM PLOT BY : MACKENZIE ALLEN PLOT NAME : 12290470_MQ12 PLOT SCALE : 1:1

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TRAFFIC CONTROL (CONTINUED)

STAGE		LOCATION	STATION	TO	STATION	STAGE DURATION DAYS	643.1050* TRAFFIC CONTROL SIGNS PCMS EACH**	DAY	643.1055.S TRUCK OR TRAILER MOUNTED ATTENUATOR DAYS	643.4100.S TRAFFIC CONTROL INTERIM LANE CLOSURE EACH	646.1020* MARKING LINE EPOXY 4-INCH LF	SPV.0045.1000 DIGITAL SPEED LIMIT SIGN ASSEMBLY EACH**	DAY	SPV.0060.0501* TRAFFIC CONTROL SIGNS LEFT IN PLACE EACH	SPV.0060.0502 TRAFFIC CONTROL DRUMS LEFT IN PLACE EACH	SPV.0060.0503 TRAFFIC CONTROL WARNING LIGHTS TYPE A LEFT IN PLACE EACH	SPV.0060.0504 TRAFFIC CONTROL BARRICADES TYPE III LEFT IN PLACE EACH	SPV.0060.0910 TRAFFIC CONTROL CLOSE-OPEN EEWAY ENTRAN RAMP EACH	SPV.0060.0916 TRAFFIC CONTROL LOCAL ROAD LANE CLOSURES EACH	SPV.0060.0918 TRAFFIC CONTROL FULL FREEWAY CLOSURE EACH
1 PWR	NB SB	PWR - NB OUTSIDE	114+83	-	140+70	14	--	--	--	--	--	--	--	--	--	--	--	--	14	--
1 PWR	NB SB	PWR - NB INSIDE	114+83	-	140+70	13	--	--	--	--	--	--	--	--	--	--	--	--	13	--
1 PWR	NB SB	PWR - SB OUTSIDE	114+83	-	140+70	13	--	--	--	--	--	--	--	--	--	--	--	--	13	--
1 PWR	NB SB	PWR - SB INSIDE	114+83	-	140+70	13	--	--	--	--	--	--	--	--	--	--	--	--	13	--
1 South	NB SB	IH 43	1113+00	-	1413+50	35	2	70	35 35	35 35	--	6	210	3	--	--	--	--	--	--
1 North	NB SB	IH 43	1413+50	-	1787+00	78	1	78	78	78	11,359	6	468	--	--	--	--	--	--	--
1A	NB SB	IH 43	1246+00	-	1285+00	35	--	--	--	--	971	--	--	--	--	--	--	--	--	--
1B	NB SB	IH 43	1543+00	-	1672+50	3	2	6	3	--	1,479	--	--	--	--	--	--	1	--	--
1C	NB SB	IH 43	1688+00	-	1789+00	3	1	3	3	--	524	--	--	--	--	--	--	1	--	--
2	NB SB	IH 43	1246+00	-	1406+00	32	2	64	--	--	--	2	64	2	--	10	5	--	--	1
3	NB SB	IH 43	1256+00	-	1368+00	11	--	--	11 11	11 11	18,684	--	--	6	148	10	5	--	--	--
UNDISTRIBUTED								22	--	--	3,302		74	1	15	2	1	--	5	--
PROJECT 1229-04-70 TOTAL								243	176	170	36,319		816	12	163	22	11	2	58	1

**FOR INFORMATION ONLY

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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TRAFFIC CONTROL COVERING SIGNS

LOCATION	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I SIGNS	CYCLES	EACH	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II SIGNS	CYCLES	EACH
IH 43						
1261+50	1	1	1	-	-	-
1280+28	1	1	1	-	-	-
1283+90	1	1	1	2	1	2
1287+51	3	1	3	-	-	-
DETOURS						
COUNTY LINE SB ON RAMP/NB OFF RAMP	-	-	-	41	1	41
IH 43 SOUTHBOUND				101	1	101
PORT WASHINGTON ROAD	-	-	-	80	1	80
DONGLES BAY ROAD	-	-	-	91	1	91
HIGHLAND ROAD	-	-	-	129	1	129
LAKEFIELD ROAD	-	-	-	93	1	93
FALLS ROAD	-	-	-	105	1	105
UNDISTRIBUTED			2			161
PROJECT 1229-04-70 TOTAL			8			803

GEOTEXTILE

LOCATION	645.0120* GEOTEXTILE TYPE HR SY
TEMPORARY SETTLING BASINS	PROJECT-WIDE 204
PROJECT 1229-04-70 TOTAL	204

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN THE PLAN

3

TRAFFIC CONTROL

LOCATION	643.5000 TRAFFIC CONTROL EACH
PROJECT 1229-04-70	1
PROJECT 1229-04-70 TOTAL	1

DETOUR PLAN

LOCATION	STAGE DURATION DAYS	643.0300* TRAFFIC CONTROL DRUMS EACH**	DAY	643.0420* TRAFFIC CONTROL BARRICADES TYPE III EACH**	DAY	643.0705* TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH**	DAY	643.0715* TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH**	DAY	643.0800* TRAFFIC CONTROL ARROW BOARDS EACH**	DAY	643.0900* TRAFFIC CONTROL SIGNS EACH**	DAY	643.1050* TRAFFIC CONTROL SIGNS PCMS EACH**	DAY	SPV.0060.0501* TRAFFIC CONTROL SIGNS LEFT IN PLACE EACH
COUNTY LINE SB ON RAMP/NB OFF RAMP	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	41
IH 43 SOUTHBOUND	1	101	101	3	3	6	6	30	30	2	2	11	11	2	2	101
PORT WASHINGTON ROAD	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	80
DONGES BAY ROAD	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	91
HIGHLAND ROAD	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	125
LAKEFIELD ROAD	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	93
FALLS ROAD	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	105
PROJECT 1229-04-70 TOTAL			101		3		6		30		2		11		2	636

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
**FOR INFORMATION ONLY

PAVEMENT MARKINGS

STATION	TO	STATION	OFFSET	LOCATION	646.1020* MARKING LINE EPOXY 4-INCH WHITE LF	646.3020 MARKING LINE EPOXY 8-INCH WHITE SOLID LF	WHITE SKIP LF	646.5020 MARKING ARROW EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF
114+83	-	140+70	RT / LT	PORT WASHINGTON ROAD	480	600	60	1	50	350
PROJECT 1229-04-70 TOTAL					480	660		1	50	350

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

3

SAWING

STATION			OFFSET	LOCATION	690.0150 SAWING ASPHALT LF	690.0250* SAWING CONCRETE LF
1271+03			LT	IH 43 SB	11	--
1275+90			RT	IH 43 NB	9	--
1271+03	-	1310+00	LT	IH 43 SB	--	3928
1275+90	-	1310+02	RT	IH 43 NB	--	3433
1281+81	-	1283+44	RT	IH 43 NB	--	164
1301+84	-	1304+02	LT	IH 43 SB	--	232
1310+00			LT	IH 43 SB	23	--
1310+00			RT	IH 43 NB	24	--
1312+00			LT	IH 43 SB	21	--
1312+00			RT	IH 43 NB	26	--
1312+00	-	1329+25	LT	IH 43 SB	--	1755
1312+00	-	1327+75	RT	IH 43 NB	--	1594
1329+25			LT	IH 43 SB	24	--
1327+75			RT	IH 43 NB	24	--
1330+75			RT	IH 43 NB	22	--
1332+25			LT	IH 43 SB	24	--
1330+75	-	1367+93	RT	IH 43 NB	--	3740
1332+25	-	1366+76	LT	IH 43 SB	--	3472
1367+93			RT	IH 43 NB	11	--
1366+76			LT	IH 43 SB	11	--
1578+00	-	1619+94	RT	IH 43 NB	20	4204
1624+91	-	1641+03	RT	IH 43 NB	79.00	1597
1651+17	-	1685+97	RT	IH 43 NB	667	3484
1687+30	-	1764+74	RT	IH 43 NB	64	7740
1771+47	-	1787+00	RT	IH 43 NB	139	1554
PROJECT 1229-04-70 TOTAL					1,199	36,897

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

EMERGENCY RESPONSE TO TRAFFIC

LOCATION	SPV.0060.0940 EMERGENCY RESPONSE TO TRAFFIC INVOLVING CONCRETE BARRIER TEMPORARY EACH	SPV.0060.0945 EMERGENCY RESPONSE TO TRAFFIC INVOLVING CRASH CUSHION EACH
UNDISTRIBUTED	4	2
PROJECT 1229-04-70 TOTAL	4	2

CPM PROGRESS SCHEDULE

LOCATION	SPV.0060.0601 BASELINE CPM PROGRESS SCHEDULE EACH	SPV.0060.0602 MONTHLY CPM PROGRESS SCHEDULE UPDATES EACH
PROJECT 1229-04-70	1	3
PROJECT 1229-04-70 TOTAL	1	3

PAVEMENT REPAIR ITEMS

LOCATION	495.1000.S COLD PATCH TONS	SPV.0060.0120 MOBILIZATIONS EMERGENCY PAVEMENT REPAIR EACH	SPV.0195.0020 HMA LONGITUDINAL JOINT REPAIR TONS
PROJECT 1229-04-70	1000	5	1000
PROJECT 1229-04-70 TOTAL	1000	5	1000

3

FIELD OFFICE FIXED

LOCATION	SPV.0105.0100 FIELD OFFICE FIXED LS
PROJECT 1229-04-70	1
PROJECT 1229-04-70 TOTAL	1

COVERING TRAFFIC SIGNAL EQUIPMENT

LOCATION	SPV.0105.3000 COVERING TRAFFIC SIGNAL EQUIPMENT LS
IH 43 NB OFF RAMP & CTH W	1
PROJECT 1229-04-70 TOTAL	1

SURVEY PROJECT

LOCATION	SPV.0105.0604 SURVEY PROJECT 1229-04-70 LS
PROJECT 1229-04-70	1
PROJECT 1229-04-70 TOTAL	1

PAVEMENT CLEANUP

LOCATION	SPV.0075.0601 PAVEMENT CLEANUP PROJECT 1229-04-70 HRS
PROJECT 1229-04-70	250
PROJECT 1229-04-70 TOTAL	250

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

S:\DOT\DOT_SE\200557 I43 Final Design\12290470\SheetsOther\12290470_MQ.ppt PLOT DATE : 4/1/2021 8:51:56 AM PLOT BY : MACKENZIE ALLEN PLOT NAME : 12290470_MQ15 PLOT SCALE : 1:1

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLECTIVE H [SF]	637.2230 SIGNS TYPE II RELFECTIVE F [SF]	638.2102 MOVING SIGNS TYPE II [EA]	638.2602* REM SIGNS TYPE II [EA]	638.3000* REM SMALL SIGN SUP [EA]	634.0618 POSTS WOOD 4" X 6" X 18' [EA]	634.0622 POSTS WOOD 4" X 6" X 22' [EA]	634.0814 POSTS TUBULAR STEEL 2 X 2 INCH X 14 FT (EA)	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLECTIVE SH [SF]	638.2101 MOVING SIGNS TYPE I [EA]	638.2601 REM SIGNS TYPE I [EA]	638.3100 REM STR STEEL SIGN SUP [EA]
1	D12-2B						1	2										
2	R4-3						1	1										
3	NONE	PARK AND RIDE , CIS EXIT 82B															1	2
4	E6-1	W, COUNTY LINE ROAD , PORT WASHINGTON RD , EXIT ONLY											LOCATED ON SIGN BRIDGE S-40-16				1	
5	E5-1A						1	2					INCLUDES REMOVAL OF W5-54's ON SAME POSTS					
6	R4-3						1	1					INCLUDES REMOVAL OF D10-1 ON SAME POST					
7	R8-7						1	1										
8	NONE	TRAVEL INFO 511					1	1										
9	R8-7						1	1										
10	W4-2L					1		1	1									
11	NONE	TRAVEL INFO 511				1		1	1									
12	M1-94	COUNTY LINE RD					1	2										
13	R2-1	SPEED LIMIT 55				1		2		2								
14	M1-94	COUNTY LINE RD					1	2										
15	I2-3A	VILLAGE OF RIVER HILLS				1		2		2								
16	I55-56						1	1										
17	R2-1	SPEED LIMIT 70				1		2		2								
18	R5-60					1		2		2								
19	W4-3R					1		2		2								
20	W3-5	55 MPH ADVISORY				1		2		2								
21	W5-52R						1	1										
22	M1-94	COUNTY W				1		2		2								
23	M1-94	COUNTY W					1	2										
24	W5-52R						1	1										
25	NONE	HOSPITAL EXIT 85								3						1		2
26	NONE	MEQUON NEXT 2 EXITS															1	2
27	NONE	OVERSIZE LOADS RESTRICTED BEYOND NEXT EXIT															1	2
28	E6-1	SOUTH 57, WEST 167 MEQUON RD EXIT ONLY											LOCATED ON SIGN BRIDGE				1	
29	D12-2B						1	2										
30	NONE	CONCORDIA UNIV MILWAUKEE AREA TECH COLLEGE, NORTH CAMPUS EXIT 85															1	2
31	M1-94	DONGES BAY RD					1	2										
32	I55-56						1	1										
33	I55-56						1	1										
34	M1-94	DONGES BAY RD					1	2										
35	R7-1D(2S)		18 X 24	3.000			1	1			1							
36	W11-2(2S)		30 X 30		6.250		1	1			1							
36A	W16-7L(2S)		24 X 12		2.000							36	REMOVAL INCLUDED IN SIGN # 36					
37	W11-2(2S)		30 X 30		6.250		1	1			1							
37A	W16-7L(2S)		24 X 12		2.000							37	REMOVAL INCLUDED IN SIGN # 37					
38	R3-7R(2M)		30 X 30	6.250			1	1			1							
39	R7-1D(2S)		18 X 24	3.000								38	REMOVAL INCLUDED IN SIGN # 38					
40	NONE	DIAGRAMMATIC 1/ 2 MILE ADVANCE											SHEET 8				1	2
UNDISTRIBUTED				40.000	40.000	15			15	--		--	--		200.00	2		
TOTALS				52.250	56.500	24	22	46	17	17	4	--	--		200.000	3	7	12

SHEET: 1 OF 1

3

FTMS CABLE REMOVALS

CATEGORY	ROADWAY	ITEM ID	674.0300 REMOVE CABLE LF
1300	IH 43		
		EXMHBD02 - EXMH1274	2000
		EXMH1274 - EXMH1308	3500
		EXMH1308 - EXMH1340	3150
		EXMH1340 - EXMH1357	1775
		EXPB1311 - EXDP1311	15
		EXPB1311 - EXPB1310	145
		EXPB1310 - EXMH1308	40
		EXPB1310 - EXPB1309	65
		EXPB1309 - EXPB1307	55
		EXPB1307 - EX-CB-RM-40-0086	90
		EXPB1307 - EXPB1305	260
		EXPB1305 - EXSB1305	15
		EXPB1305 - EXPB1306	55
		EXPB1306 - EXSB1306	15
		EXPB1309 - EXPB1312	200
		EXPB1312 - EXFY1312	10
		EX-MB-DMS-45-0021 - EXPB1338	35
		EXPB1338 - EXPB1337	15
		EXPB1337 - EX-DMS-45-0021	15
		EXPB1337 - EXPB1341	195
		EXPB1341 - EXPB1340	25
		EXMH1340 - EXPB1340	10
		EXPB1340 - EX-CB-DMS-45-0021	15
		EXPB1356 EXPB1357	150
		EXPB1357 - EXPB1358	35
		EXPB1357 - EXMH1357	15
		EXPB1358 - EX-CB-SDS-45-0057	15
		TOTAL	11,915

FTMS EACH REMOVALS

CATEGORY	ROADWAY	ITEM ID.	204.0195 REMOVING CONCRETE BASES EACH	204.0210 REMOVING MANHOLES EACH	653.0905 REMOVING PULL BOXES EACH	204.9001.S REMOVING ADVANCE FLASHER ASSEMBLIES TYPE 1 EACH	SPV.0060.2000 REMOVING ELECTRICAL SERVICE METER BREAKER PEDESTAL EACH	SPV.0060.2001 REMOVING CONTROLLER CABINET EACH	SPV.0060.2002 REMOVING CONTROLLER CABINET BASE EACH	SPV.0060.2004 REMOVING RAMP CONTROL SIGNAL ASSEMBLY SIDEMOUNT EACH	SPV.0060.2007 REMOVING OVERHEAD FREEWAY DMS EACH	SPV.0060.2008 REMOVE POLE EACH
1300	IH 43											
		EXPB1306	--	--	1	--	--	--	--	--	--	--
		EXPB1305	--	--	1	--	--	--	--	--	--	--
		EXPB1310	--	--	1	--	--	--	--	--	--	--
		EXPB1309	--	--	1	--	--	--	--	--	--	--
		EXPB1338	--	--	1	--	--	--	--	--	--	--
		EXPB1337	--	--	1	--	--	--	--	--	--	--
		EXPB1340	--	--	1	--	--	--	--	--	--	--
		EXPB1341	--	--	1	--	--	--	--	--	--	--
		EXPB1357	--	--	1	--	--	--	--	--	--	--
		EXPB1356	--	--	1	--	--	--	--	--	--	--
		EXPB1311	--	--	1	--	--	--	--	--	--	--
		EXDP1311	1	--	--	--	--	--	--	--	--	1
		EXPB1312	--	--	1	--	--	--	--	--	--	--
		EXMH1274	--	1	--	--	--	--	--	--	--	--
		EXMH1308	--	1	--	--	--	--	--	--	--	--
		EXMH1340	--	1	--	--	--	--	--	--	--	--
		EXSB1306	1	--	--	--	--	--	--	1	--	--
		EXSB1305	1	--	--	--	--	--	--	1	--	--
		EXFY1312	1	--	--	1	--	--	--	--	--	--
		EX-CB-DMS-45-0021	--	--	--	--	--	1	1	--	--	--
		EX-MB-DMS-45-0021	--	--	--	--	1	--	--	--	--	--
		EX-DMS-45-0021	--	--	--	--	--	--	--	--	1	--
		TOTALS	4	3	18	1	1	1	1	2	1	1

3

FTMS BASES, POLES, CABINETS, AND EQUIPMENT

CATEGORY	ROADWAY	ITEM ID.	LOCATION STATION	LOCATION OFFSET	652.0700.S INSTALL CONDUIT INTO EXISTING ITEM EACH	653.0140 PULL BOXES STEEL 24 X 42 - INCH EACH	654.0106 CONCRETE BASES TYPE 6 EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0327 POLES TYPE 6-ALUMINUM EACH	675.0300 INSTALL MOUNTED CONTROLLER MICROWAVE DETECTOR ASSEMBLY EACH	678.0300 FIBER OPTIC SPLICE EACH	SPV.0060.2013 GROUND ROD EACH	SPV.0060.2015 REFOCUS VEHICLE DETECTOR ASSEMBLY EACH	SPV.0060.2016 INSTALL ETHERNET RADIO EACH
1300	IH 43													
		EX-CCTV-40-0089	--		--	--	--	--	--	--	--	--	--	1
		DP1309	1308+19	195' LT	--	--	1	1	1	2	--	1	3	2
		EXPB1307	--		1	--	--	--	--	--	--	--	--	--
		DP1358	1358+45	108' LT	--	--	1	1	1	2	--	1	3	1
		EXPB1358	--		1	--	--	--	--	--	--	--	--	--
		PB1358	1358+30	108' LT	--	1	--	--	--	--	--	--	--	--
		EXMHBD01	--		--	--	--	--	--	--	4	--	--	--
		TOTALS			2	1	2	2	2	4	4	2	6	4

FTMS CONDUIT AND WIRE

CATEGORY	ROADWAY	ITEM ID	LINEAR DISTANCE	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	SPV.0090.2001 OUTDOOR RATED NETWORK CABLE LF
1300	IH 43				
		EX-CCTV-40-0089 - EX-CB-CCTV040-0089	330	--	380
		DP1309 - EX-CB-RM-40-0086	95	--	540
		DP1309 - EXPB1307	35	70	--
		DP1358 - EX-CB-SDS-45-0057	155	--	465
		DP1358 - PB1358	10	20	--
		PB1358 - EXPB1358	135	270	--
		TOTALS		360	1,385

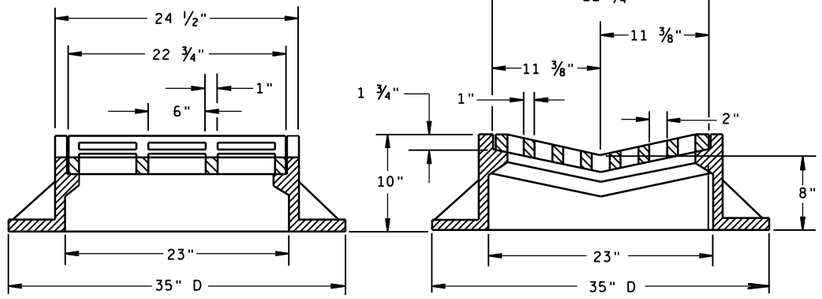
MISCELLANEOUS ITEMS

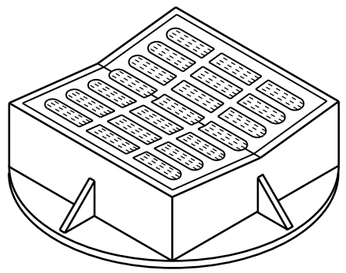
CATEGORY	ROADWAY	670.0100 FIELD SYSTEM INTEGRATOR LS	670.0200 ITS DOCUMENTATION LS	678.0500 COMMUNICATION SYSTEM TESTING LS
1300	IH 43			
	PROJECT	1	1	1
	TOTALS	1	1	1

Standard Detail Drawing List

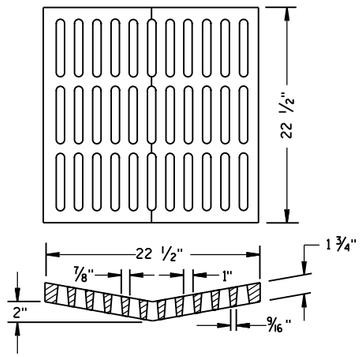
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D13-01	SLOTTED CORRUGATED METAL PIPE SURFACE DRAINS
08D16-11	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
13C08-02	CONCRETE PAVEMENT PARTIAL DEPTH REPAIR
13C09-15A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-15B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-15C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-08D	ON RAMP LANE CLOSURE
15C02-08E	OFF RAMP LANE CLOSURE
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20B	PAVEMENT MARKING (TURN LANES)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-08B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D03-05	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER
15D12-09A	TRAFFIC CONTROL, LANE CLOSURE
15D12-09B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D15-05A	TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-05E	TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE
15D16-04	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-05C	TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D40-01	TRAFFIC CONTROL, LANE SHIFT, MULTILANE DIVIDED OR ONE WAY ROAD
15D42-01	TRAFFIC CONTROL, TWO LANE FULL FREEWAY CLOSURE

6



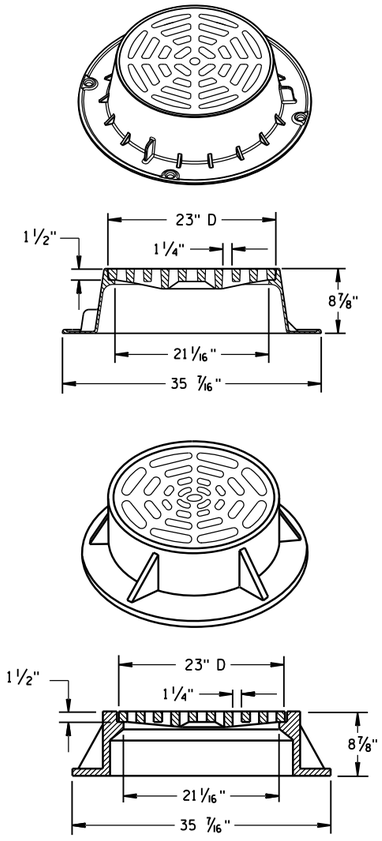


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

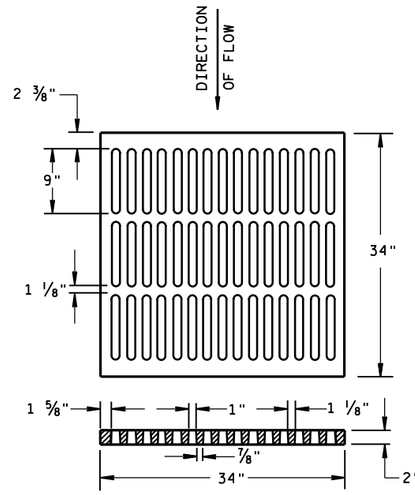
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

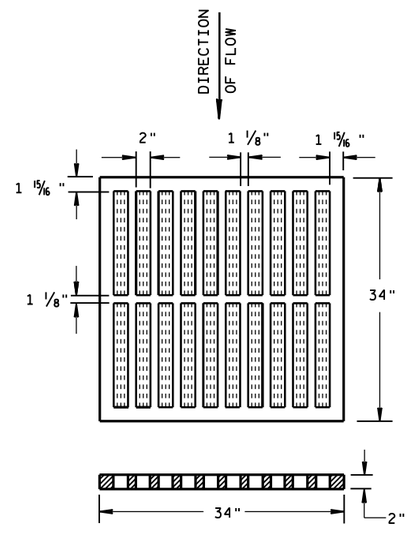
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



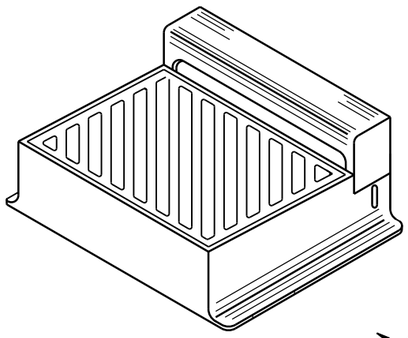
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

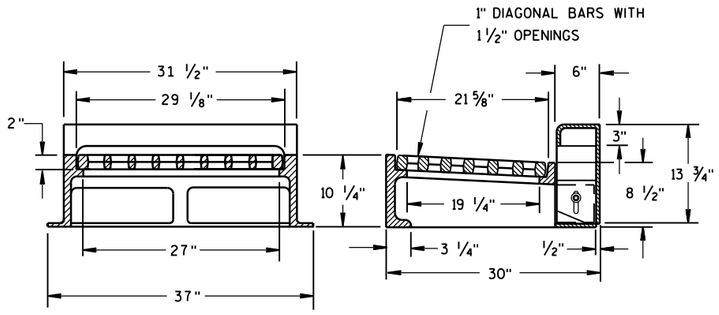


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

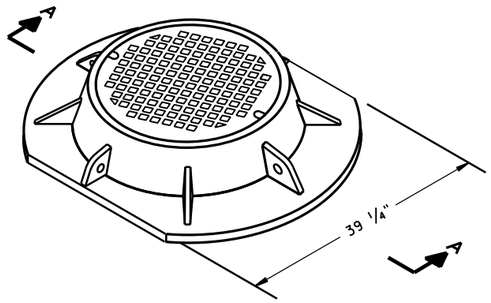
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

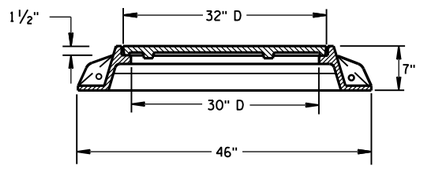
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

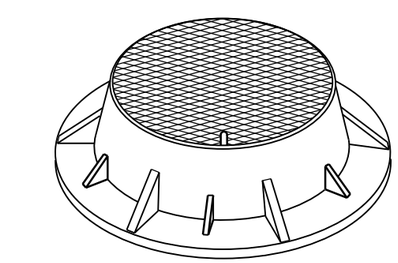
6

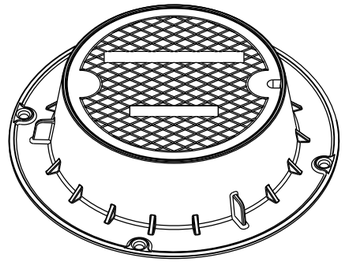
S.D.D. 8 A 5-19b

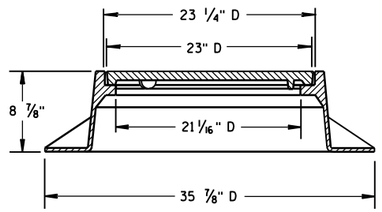


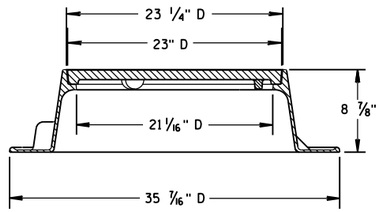


SECTION A-A
TYPE "K"









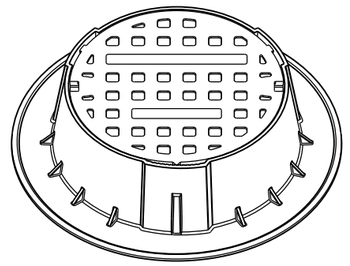
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

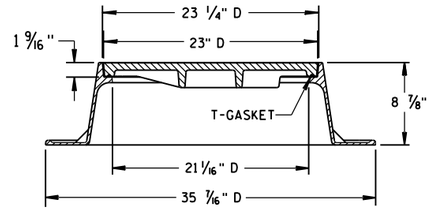
GENERAL NOTES

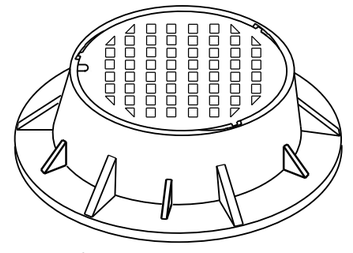
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

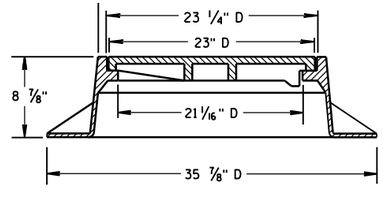
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

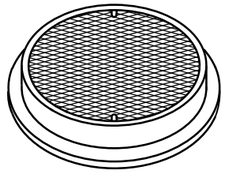


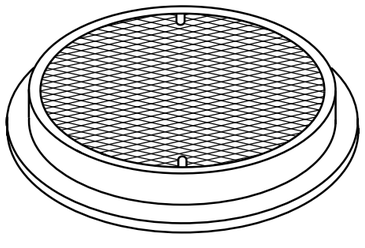


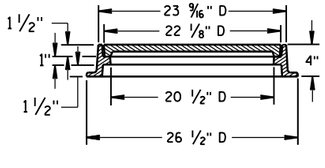




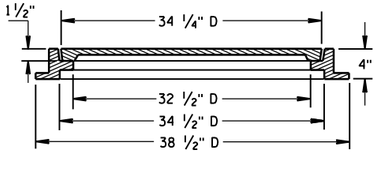
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



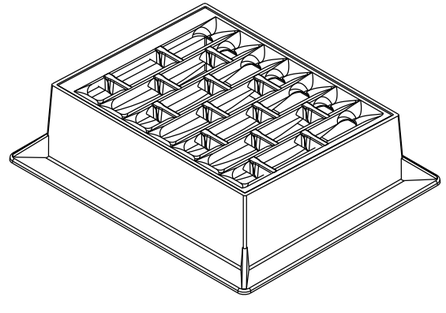


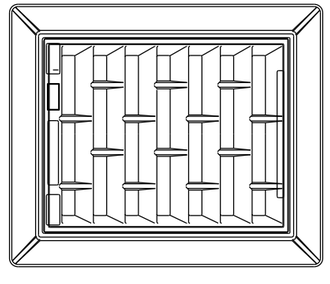


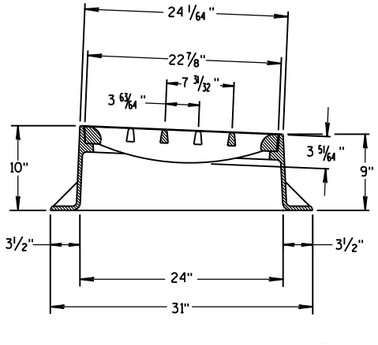
TYPE "L"

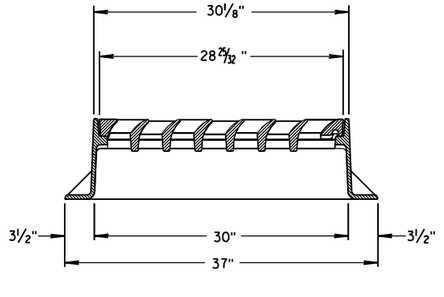


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

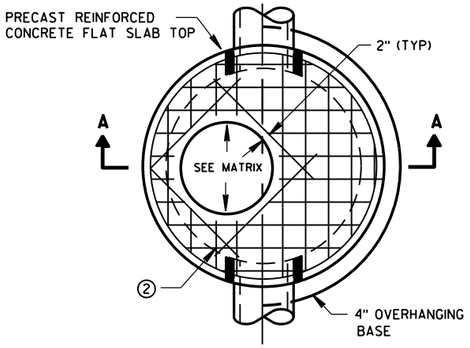
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

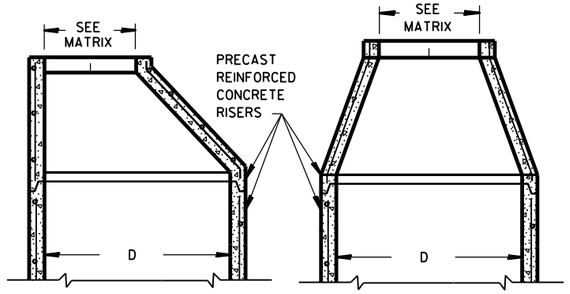
S.D.D. 8 A 5-19d

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

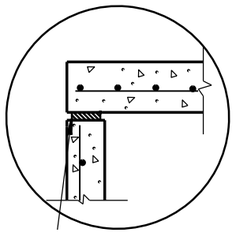


PLAN VIEW CIRCULAR OPENING

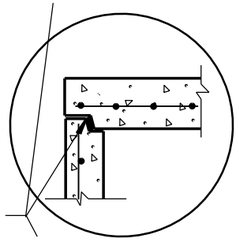


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

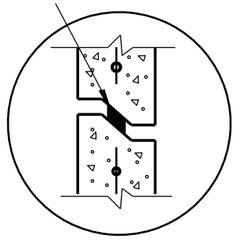


TOP WITH PLAIN END JOINT



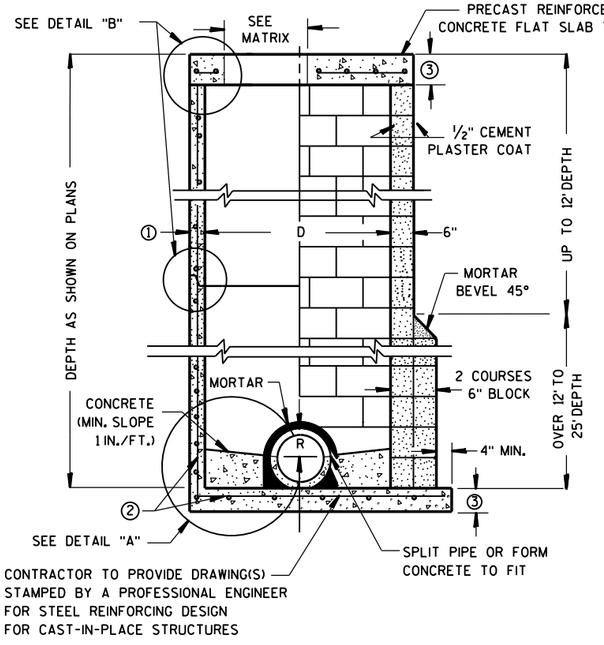
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



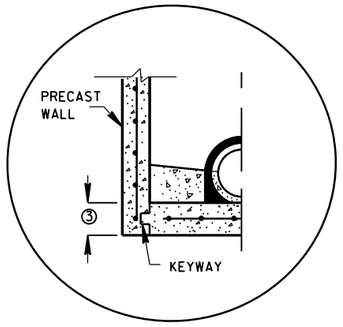
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

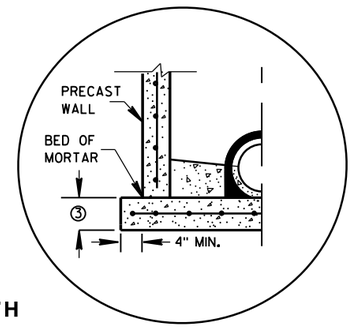


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

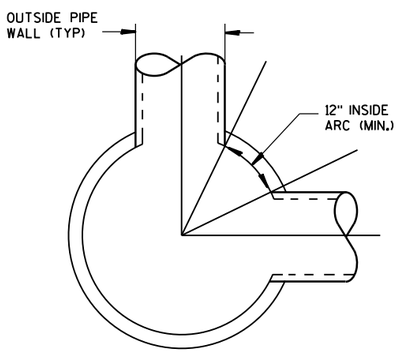


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

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

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

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

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

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

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

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

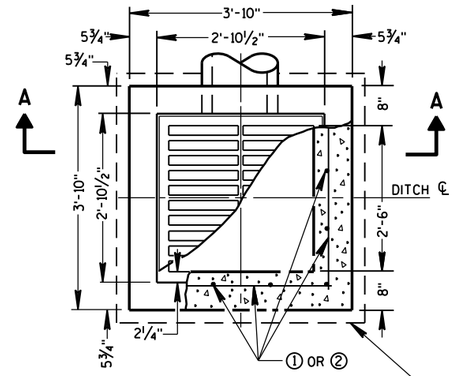
APPROVED

Sept., 2016
DATE

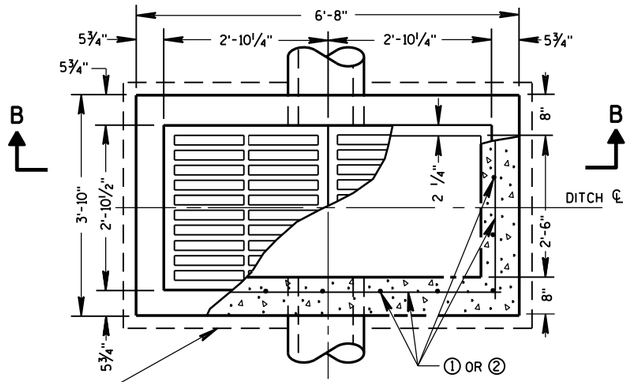
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

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S.D.D. 8 B 9-2

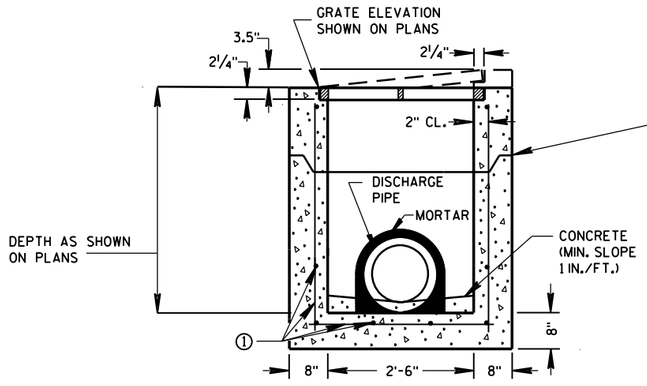


PLAN VIEW

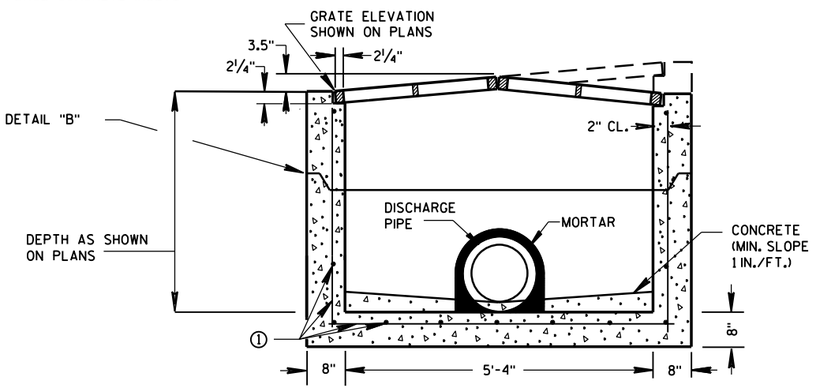


PLAN VIEW

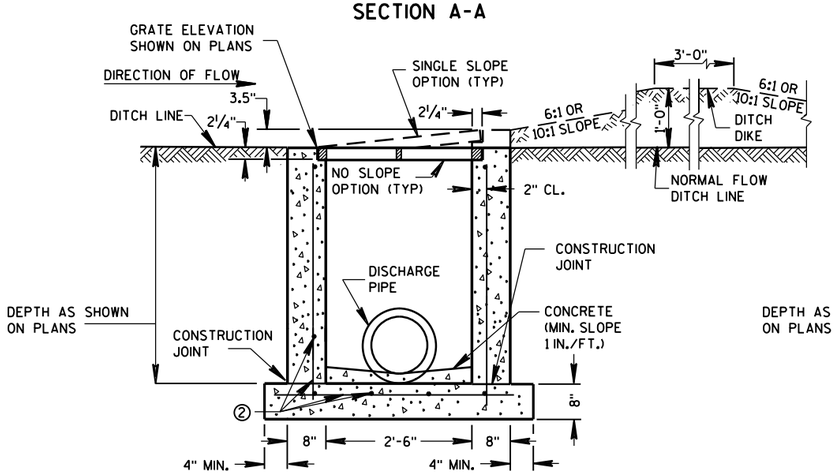
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



PRECAST REINFORCED CONCRETE SECTION A-A

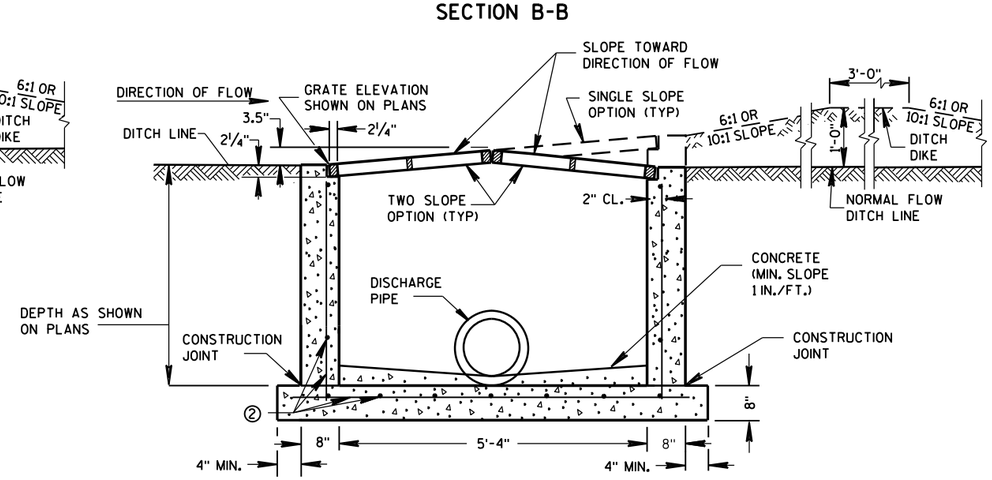


PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A

INLETS MEDIAN 1 GRATE



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 2 GRATE

GENERAL NOTES

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

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

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

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

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

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

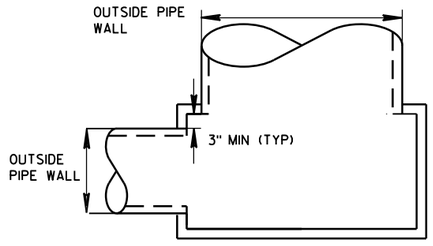
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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

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

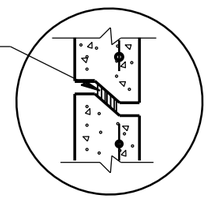
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

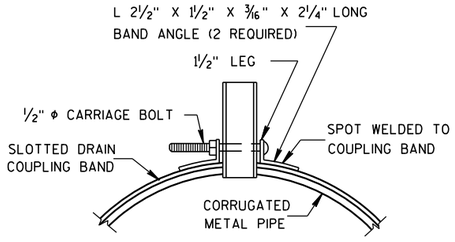
APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI ENT
FHWA

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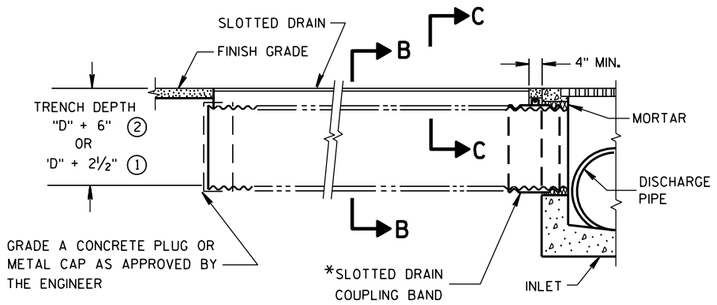
S.D.D. 8 C 8-2

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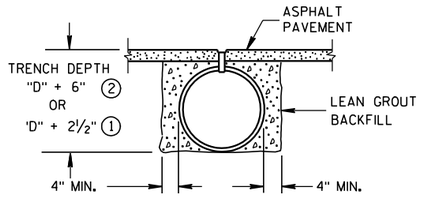
S.D.D. 8 C 8-2



SECTION A-A



SLOTTED DRAIN INSTALLATION TYPE "A"



SECTION B-B

GENERAL NOTES

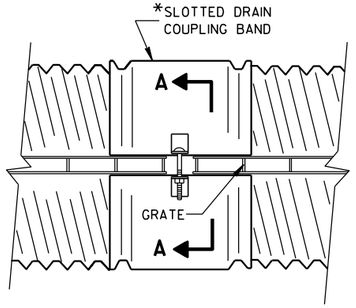
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

BACKFILL MATERIAL

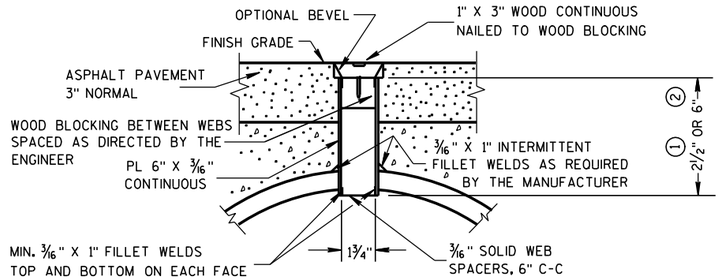
THE LEAN GROUT BACKFILL MATERIAL SHALL BE A FINE AGGREGATE, IN ACCORDANCE WITH SUBSECTION 501.3.6.3.6 OF THE STANDARD SPECIFICATIONS, MIXED WITH 150 POUNDS OF CEMENT AND APPROXIMATELY 30 GALLONS OF WATER FOR EACH 3000 POUNDS OF FINE AGGREGATE.

THE PIPE FOR THE SLOTTED DRAIN SHALL MEET AASHTO DESIGNATION M-36, AND THE GRATE ASSEMBLIES SHALL BE MADE FROM STRUCTURAL STEEL SUITABLY WELDED TO FORM THE OPEN SLOT AND HOT-DIP GALVANIZED TO MEET THE PROVISIONS OF AASHTO DESIGNATION M-111.

NORMAL PIPE SIZES ARE 12-INCH THROUGH 24-INCH DIAMETER IN 0.064 INCH THICKNESS, AND 30-INCH DIAMETER PIPE IN 0.079 INCH THICKNESS.

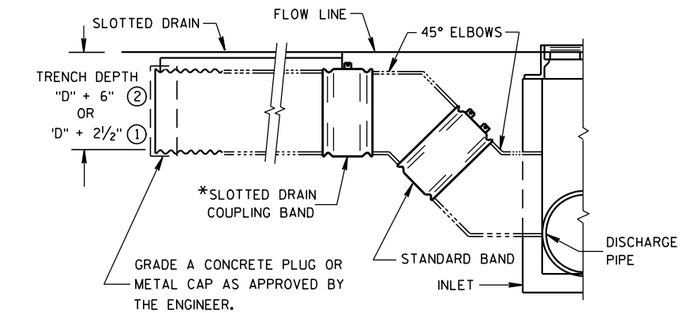


PLAN VIEW



SECTION C-C

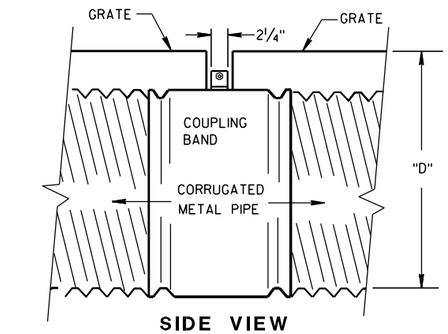
GRATE SLOT DETAIL



SLOTTED DRAIN INSTALLATION TYPE "B"

NOTE:

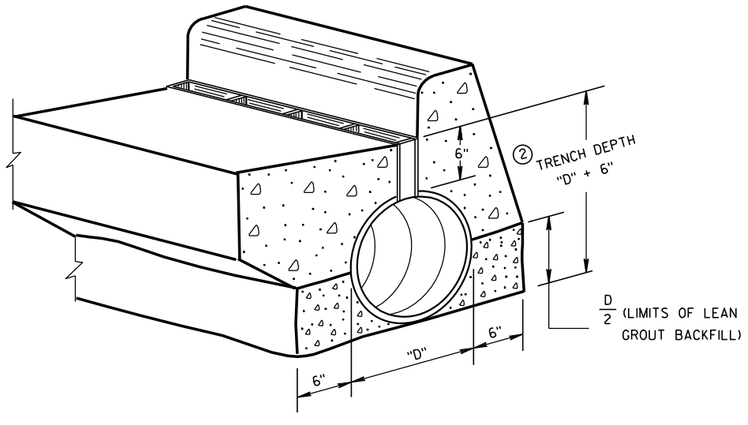
TO PREVENT "FLOATING" OF THE SLOTTED DRAIN DURING BACKFILL OPERATIONS PROVIDE ADEQUATE WEDGES, OR POUR THE LEAN GROUT ON TOP OF THE PLUGGED SLOT ALLOWING IT TO SLOUGH TO THE SIDES OF THE PIPE. THIS WILL PROVIDE ENOUGH WEIGHT ON TOP TO KEEP THE PIPE FROM FLOATING.



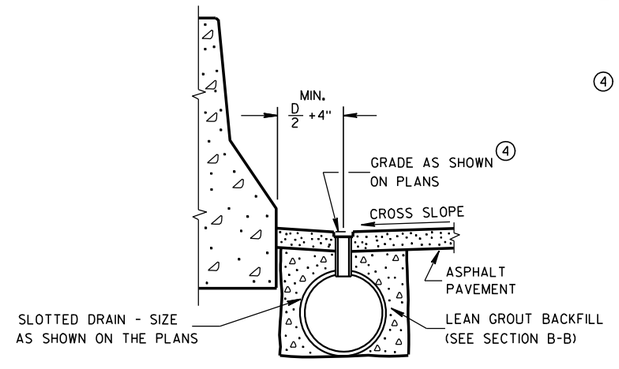
SIDE VIEW

*TYPICAL COUPLING BAND FOR SLOTTED DRAIN

(ALTERNATES PERMITTED AS APPROVED BY THE ENGINEER)



SLOTTED DRAIN INSTALLATION IN FLOW LINE OF CURB & GUTTER TYPE "C"



SLOTTED DRAIN INSTALLATION AT MEDIAN BARRIER TYPE "D"

① 2½" NORMAL GRATE DEPTH.

② 6" SPECIAL GRATE DEPTH, WHEN SPECIFIED ON THE PLANS.

③ FOR SCREEDING DIRECTLY OVER THE SLOTTED DRAIN WITH ASPHALT PAVER. FOR CONCRETE SURFACE USE 3" WIDE TAPE OVER THE SLOT TO KEEP MATERIAL OUT OF THE PIPE.

④ WHEN THE SURFACE IS CONCRETE PAVEMENT THE GRADE AS SHOWN ON THE PLANS WILL BE FLUSH WITH THE TOP OF THE SLOTTED DRAIN.

SLOTTED CORRUGATED METAL PIPE SURFACE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

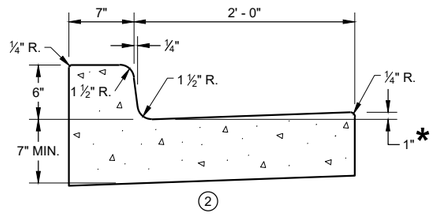
8/30/79 — DATE

/S/ D. L. Str--- — CHIEF ROADWAY DEVELOP[ENGINEER]

FHWA

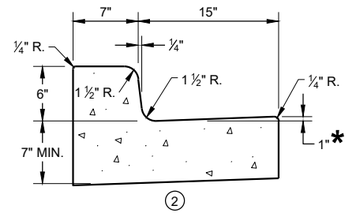
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S.D.D. 13 D 13-1

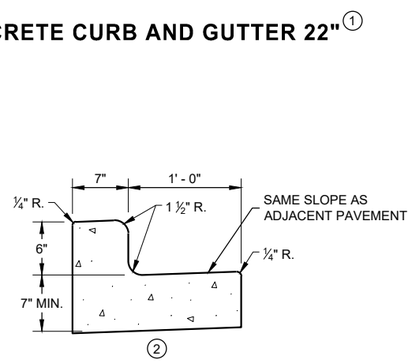


CONCRETE CURB AND GUTTER 31" ①

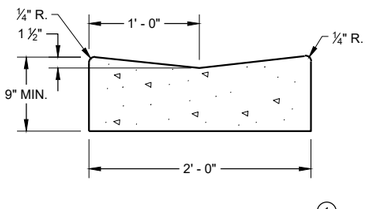
*TO BE MEASURED TO A MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



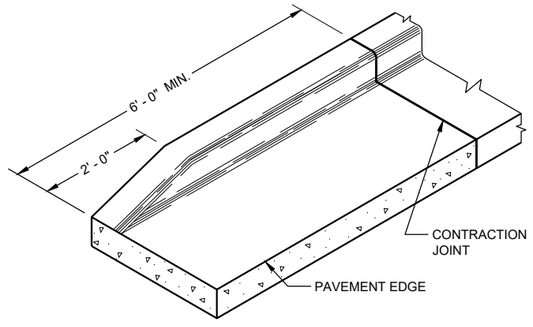
CONCRETE CURB AND GUTTER 22" ①



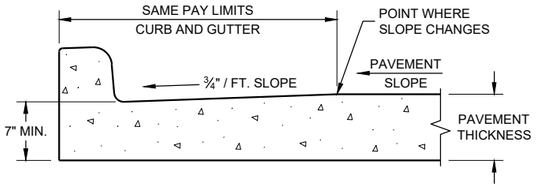
CONCRETE CURB AND GUTTER 19" ①



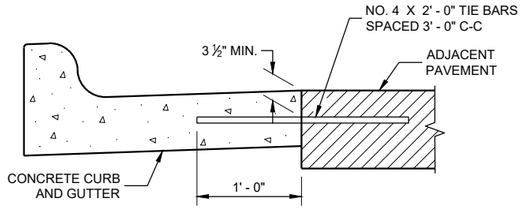
CONCRETE GUTTER 24" ①



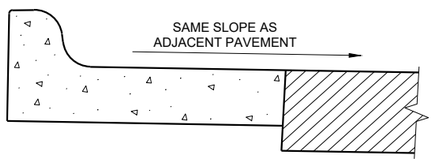
END SECTIONCURB AND GUTTER



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER



TYPICAL TIE BAR LOCATION ①



HIGH SIDE SECTION ③

(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION 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.

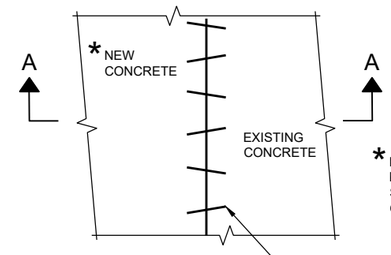
INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

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

① WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUITED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".

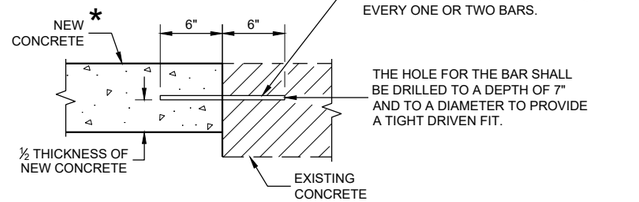
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLANS



*EXISTING AND NEW CONCRETE MAY BE CURB AND GUTTER, SURFACE DRAINS, PAVEMENT OR OTHER CONCRETE STRUCTURE.

PLAN VIEW



SECTION A - A

PAVEMENT TIES

CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES

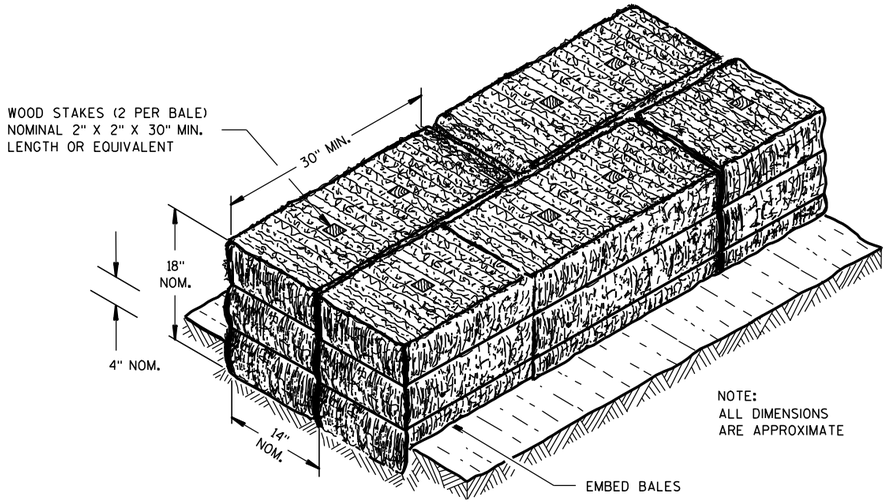
(For Optional use in Milwaukee Co. Only)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

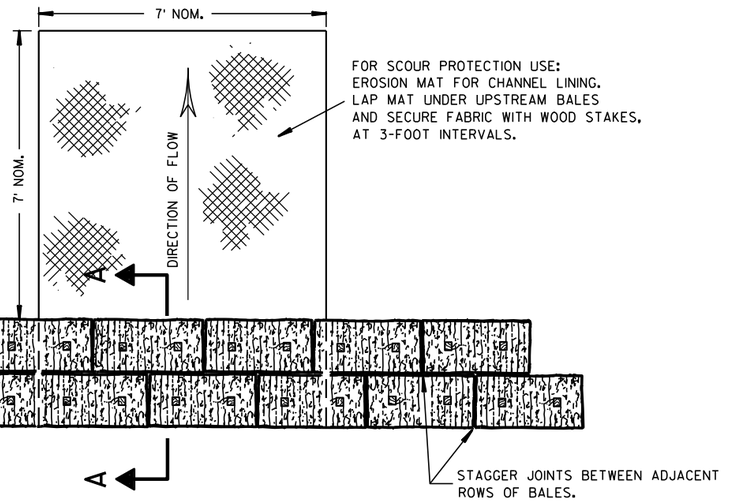
APPROVED
February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

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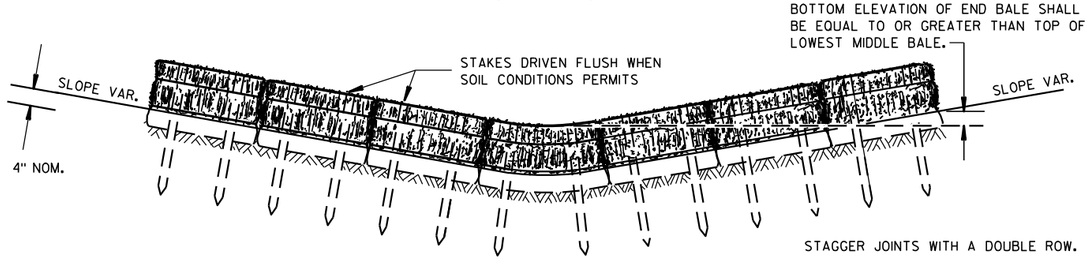
SDD 08D16 - 11



SECTION A-A



PLAN VIEW



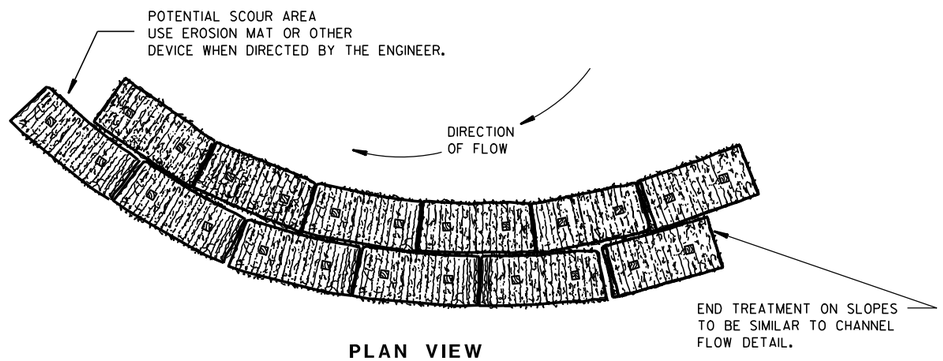
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

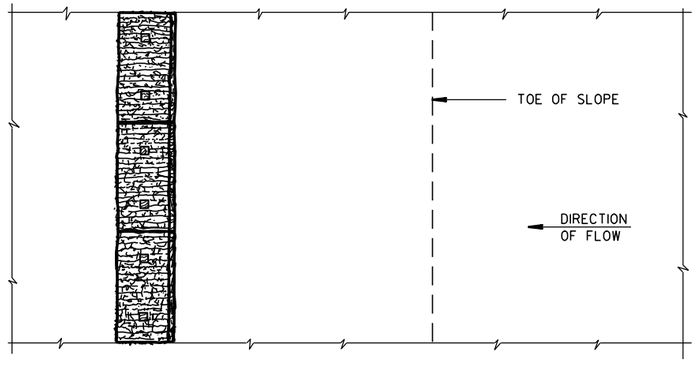
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

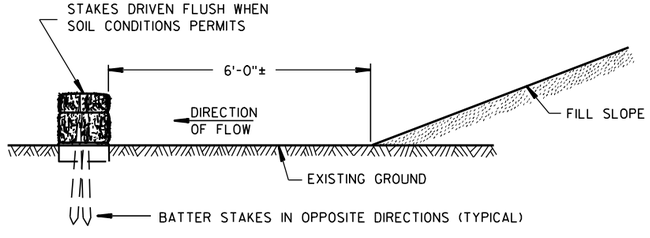


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

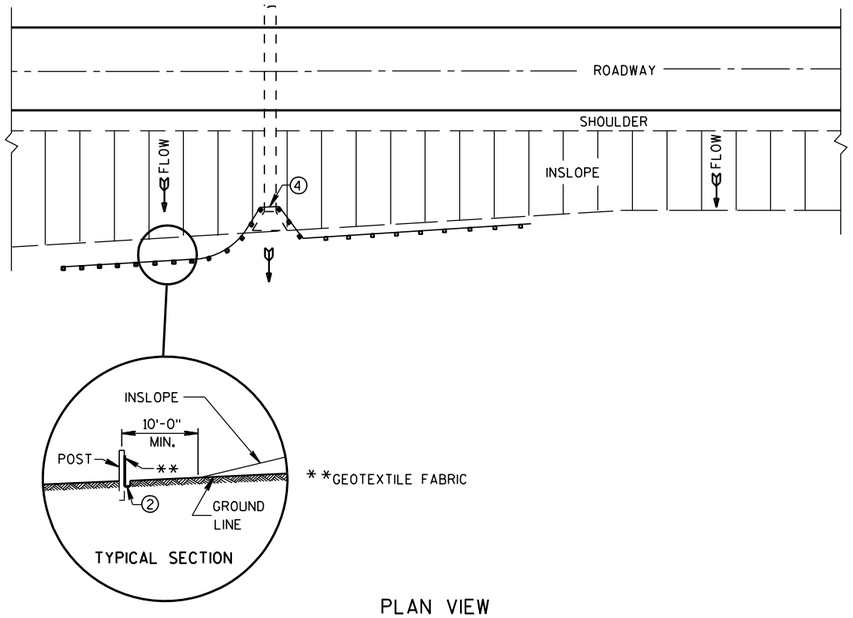
APPROVED

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

FHWA

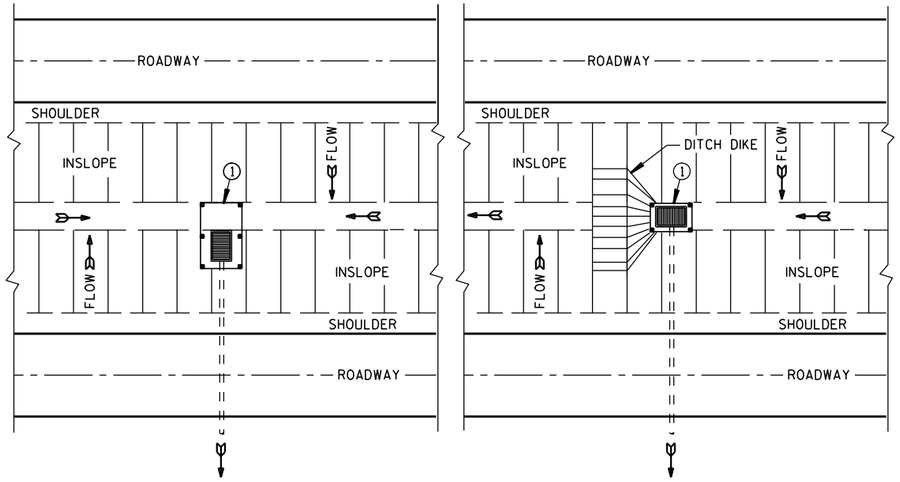
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



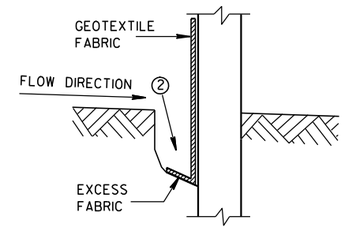
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

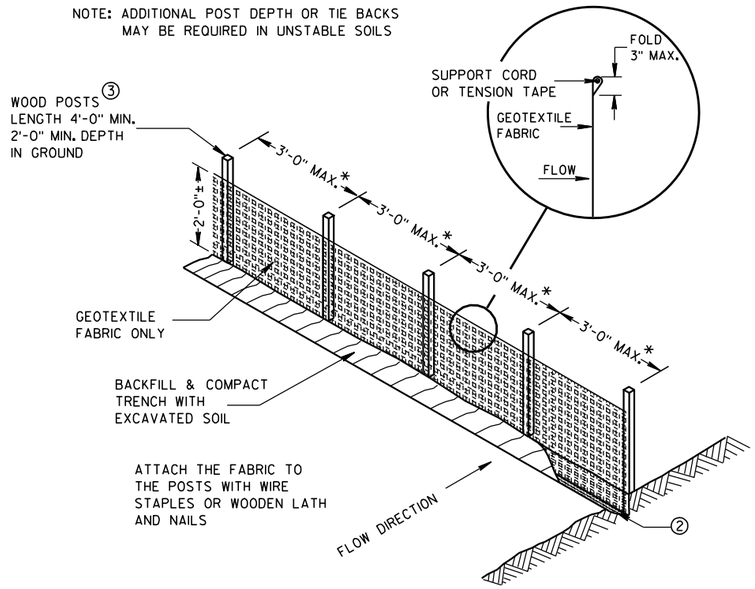
GENERAL NOTES

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

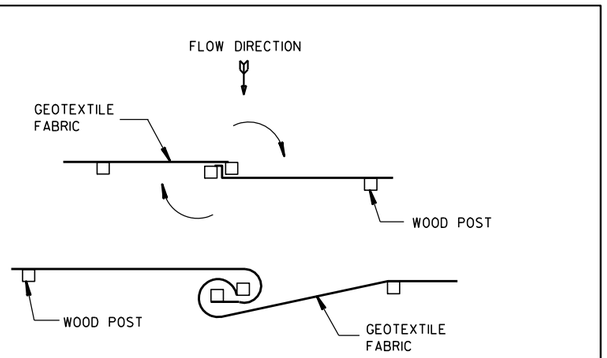
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



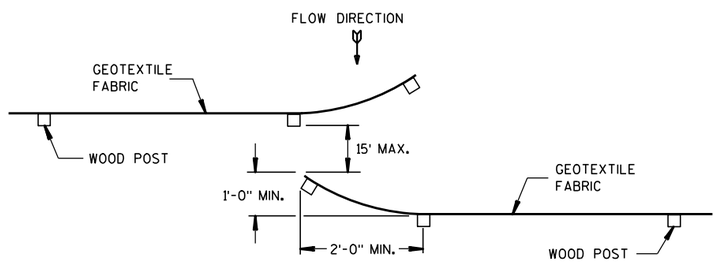
TRENCH DETAIL



SILT FENCE

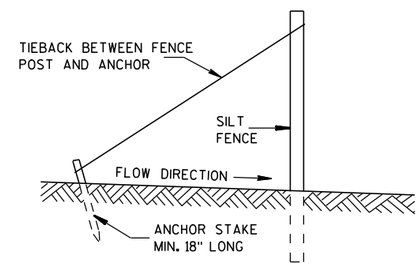


TWIST METHOD



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

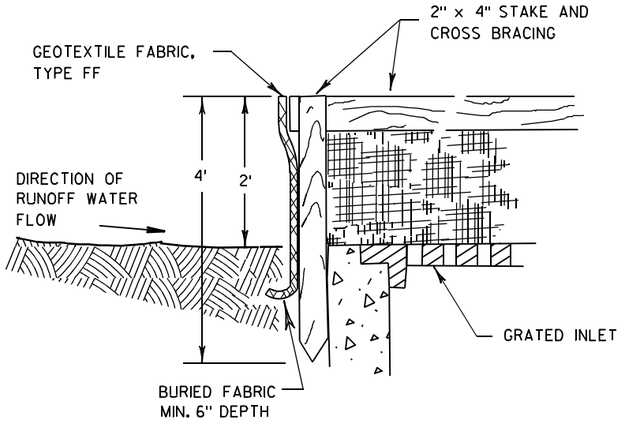
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

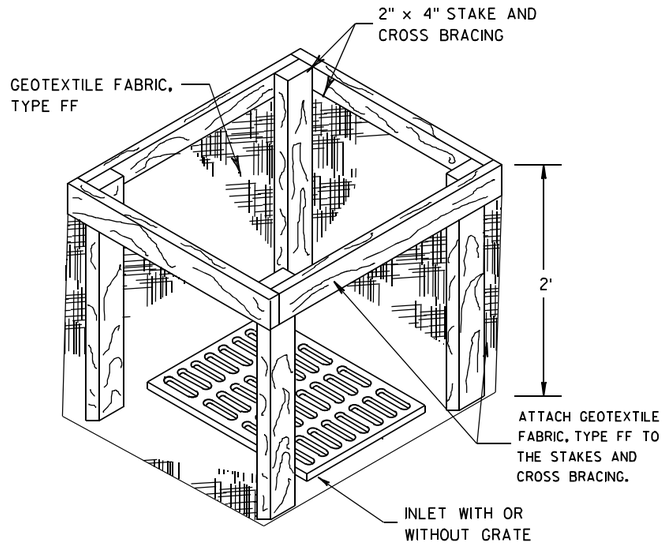
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S.D.D. 8 E 9-6

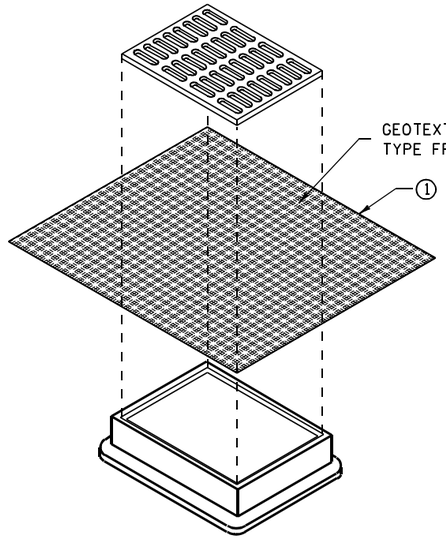
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S.D.D. 8 E 9-6



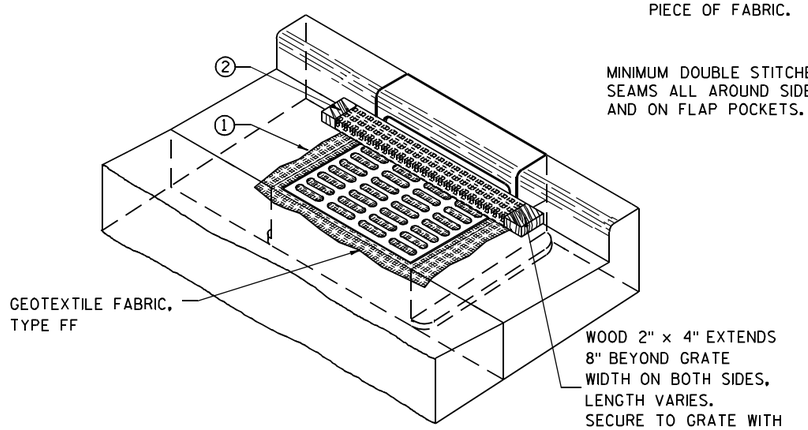


INLET PROTECTION, TYPE A

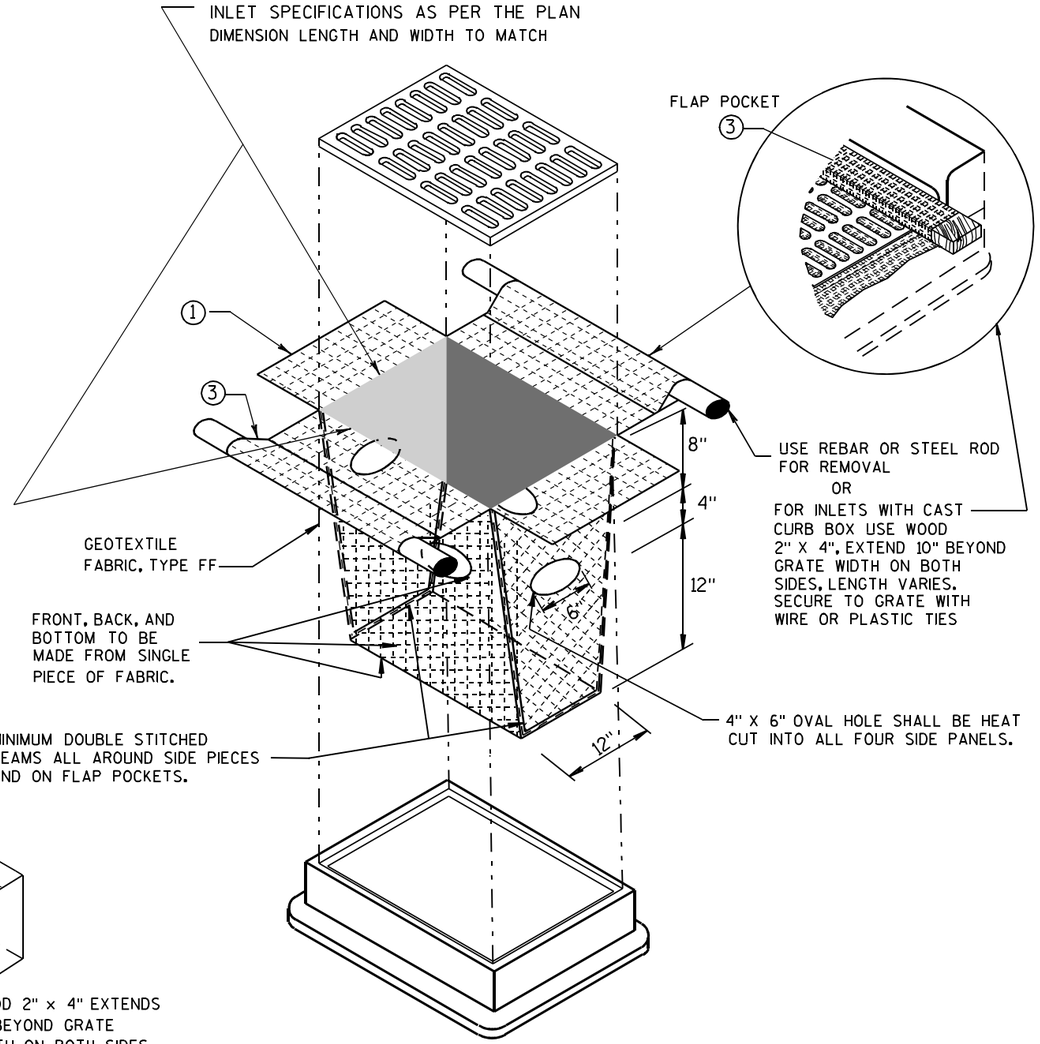


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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

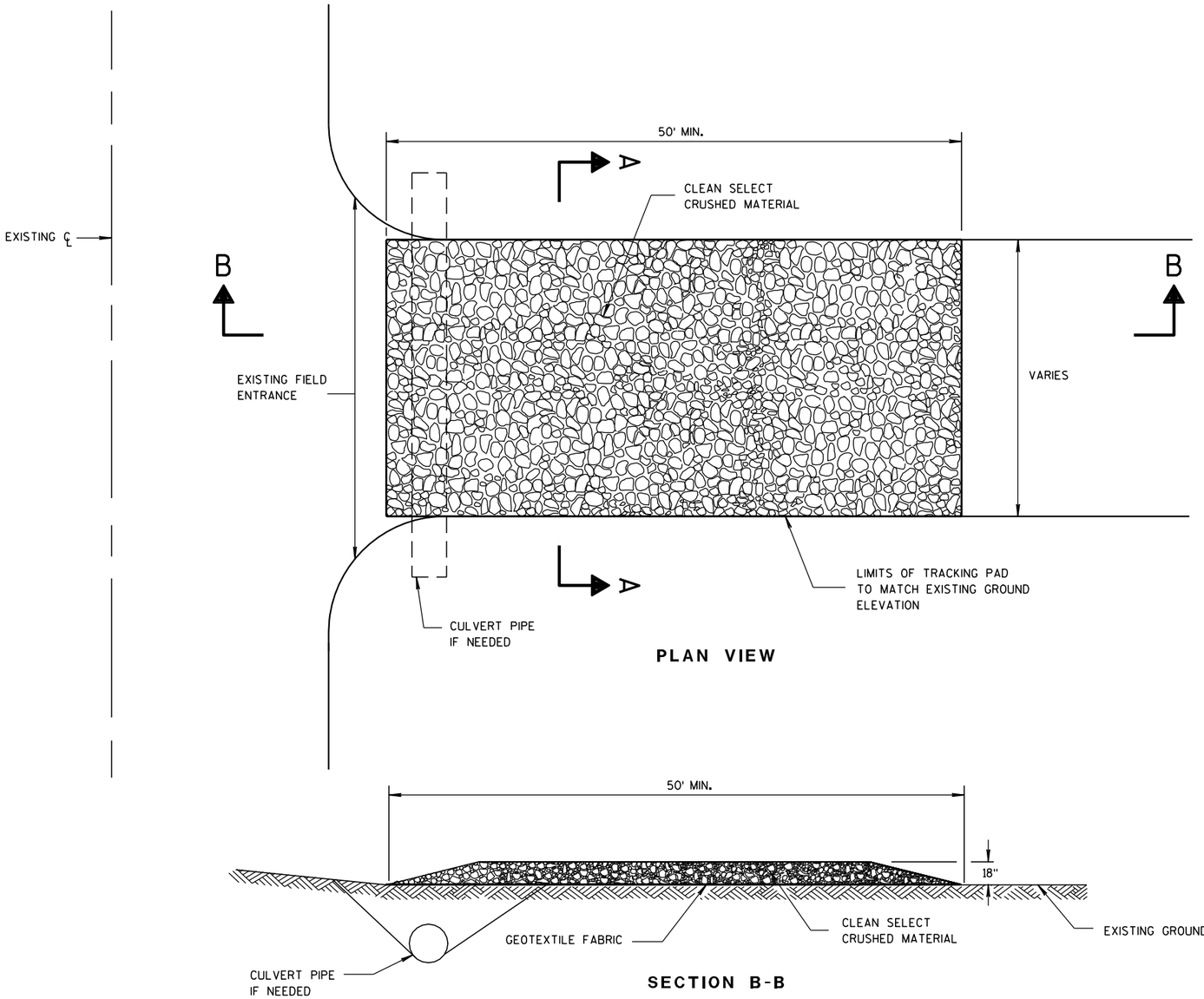
FHWA

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S.D.D. 8 E 10-2

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S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-B

GENERAL NOTES

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

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

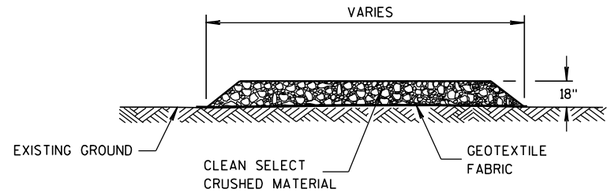
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

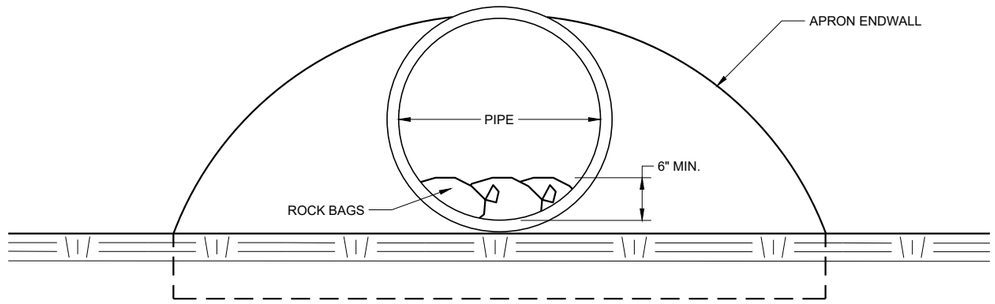
TRACKING PAD	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3/24/2011 DATE FHWA	/S/ Jerry H. Zoda ROADWAY STANDARDS ENGINEER
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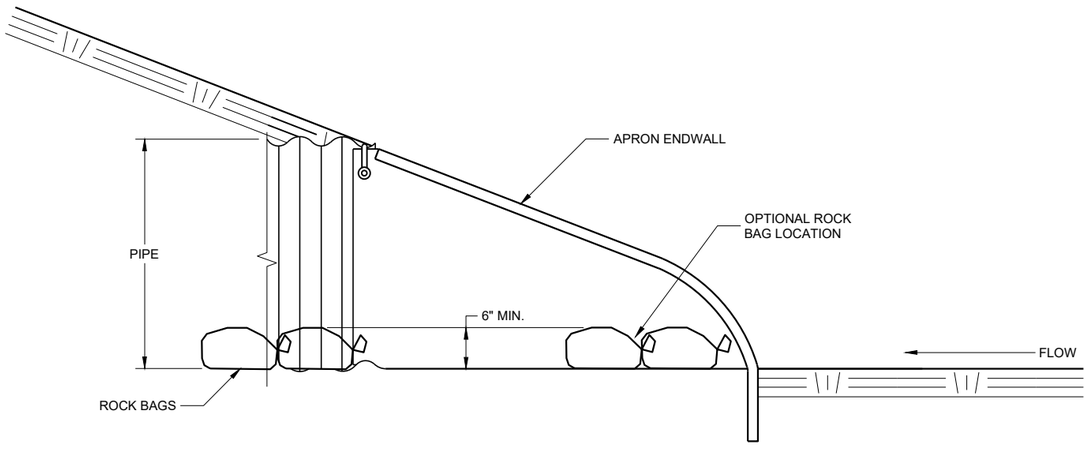
S.D.D. 8 E 14-1

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S.D.D. 8 E 14-1



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Daniel Schave
EROSION CONTROL ENGI
FHWA

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SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

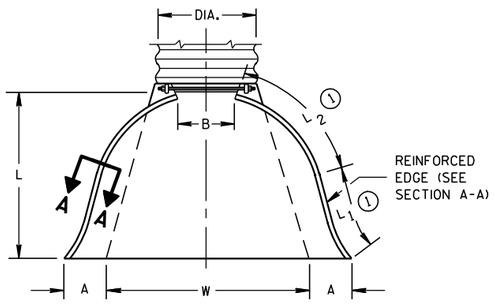
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

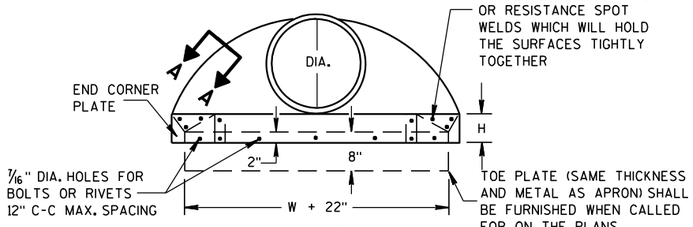
REINFORCED CONCRETE APRON ENDWALLS

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

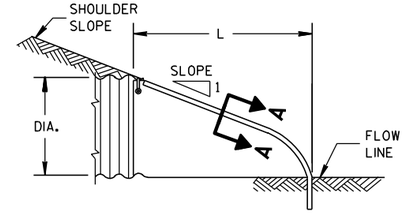
*MINIMUM
**MAXIMUM



PLAN VIEW

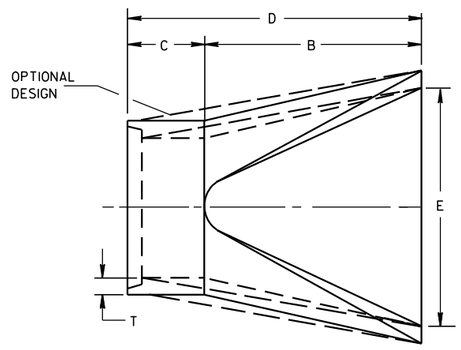


END VIEW

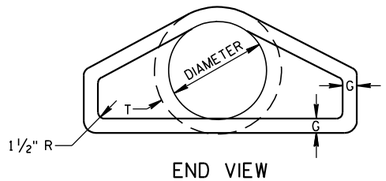


SIDE ELEVATION

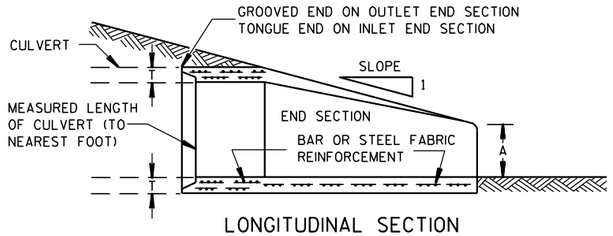
METAL ENDWALLS



PLAN

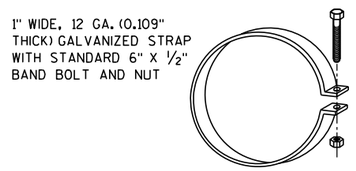


END VIEW



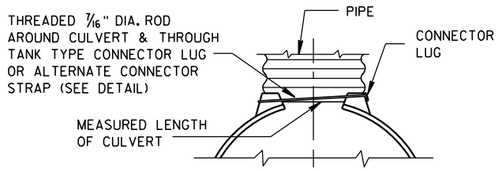
LONGITUDINAL SECTION

CONCRETE ENDWALLS

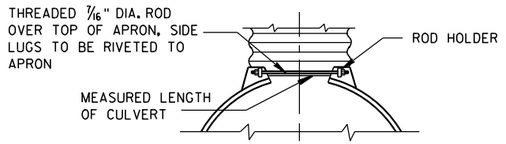


ALTERNATE FOR TYPE 1 CONNECTION

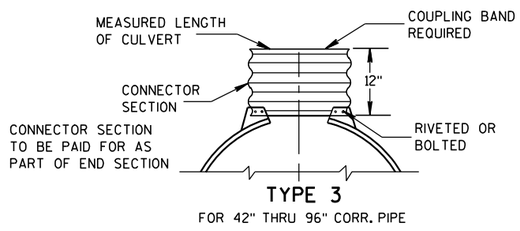
END SECTION CONNECTOR STRAP



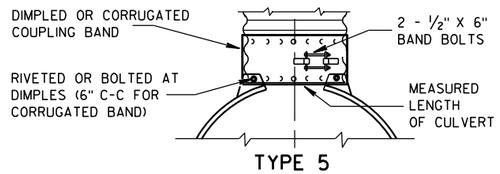
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

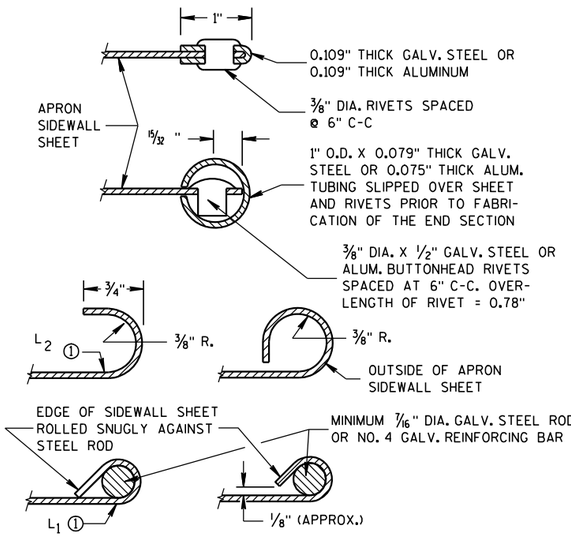
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

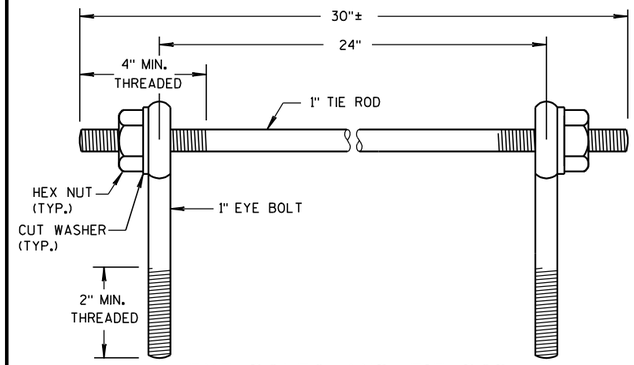
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

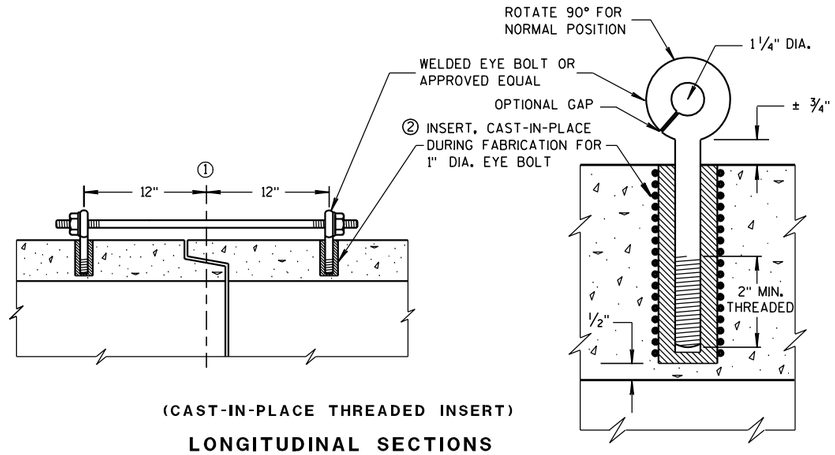
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



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.

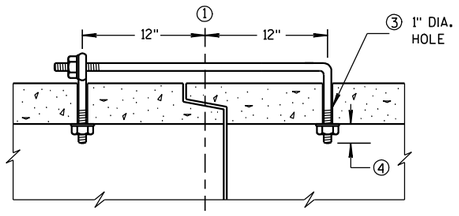
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

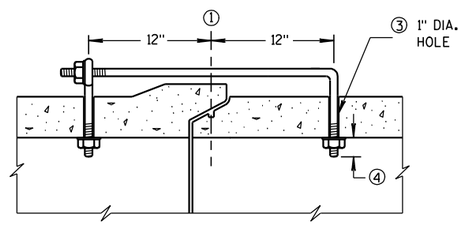
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

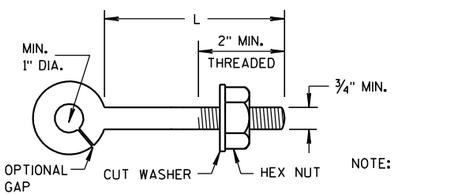


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

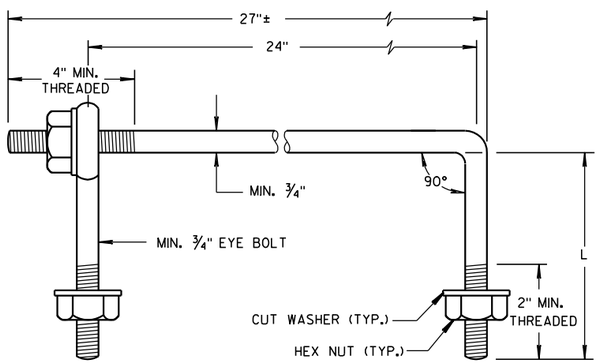
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

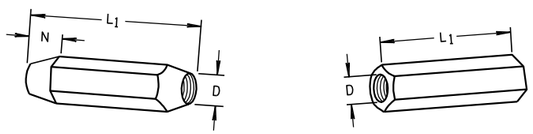
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

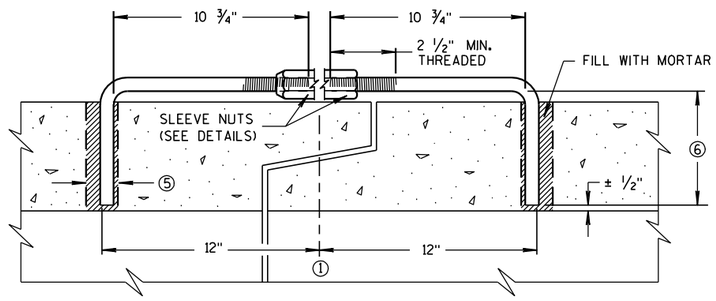
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

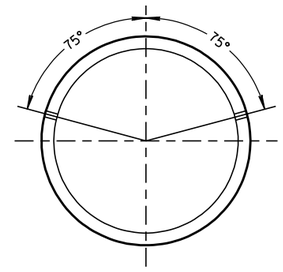
SLEEVE NUTS



LONGITUDINAL SECTION

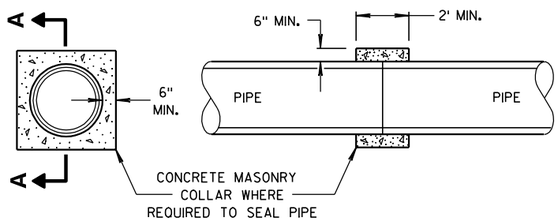
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

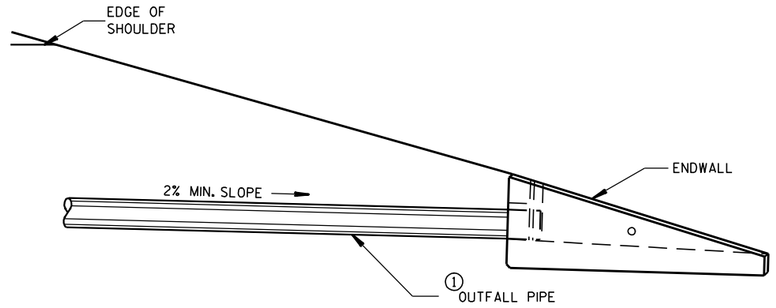
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
343
FHWA

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S.D.D. 8 F 4-7

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION DETAIL

GENERAL NOTES

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

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

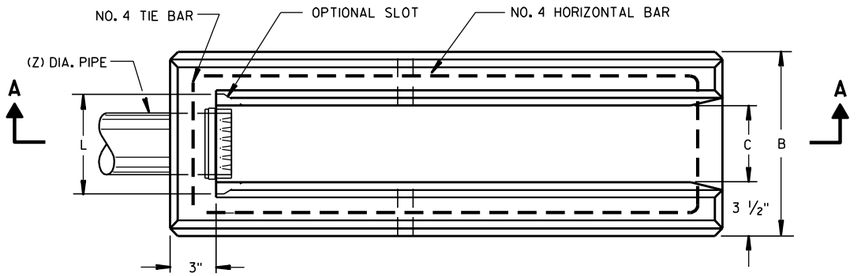
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

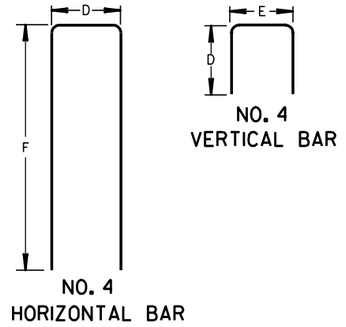
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

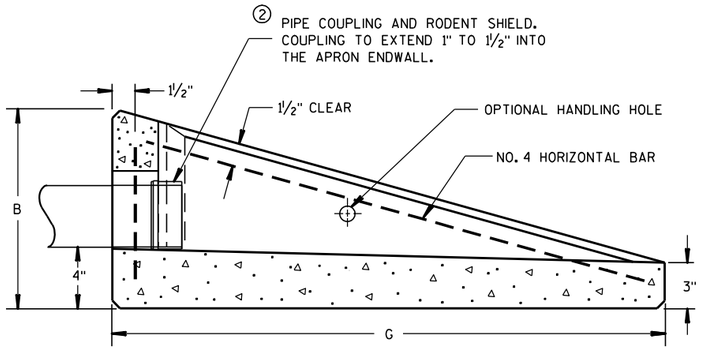
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



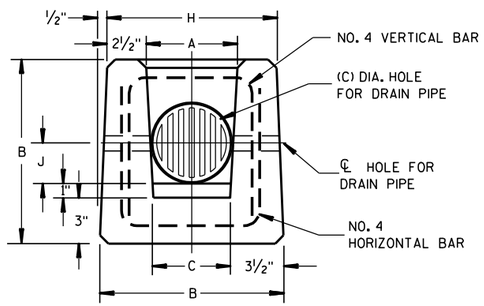
PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS

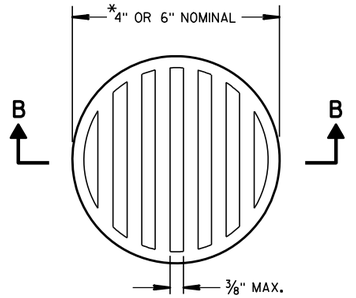


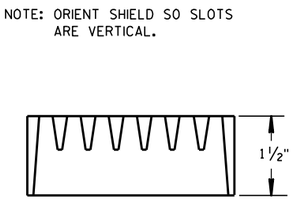
SECTION A-A



END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN





SECTION B-B

② RODENT SHIELD

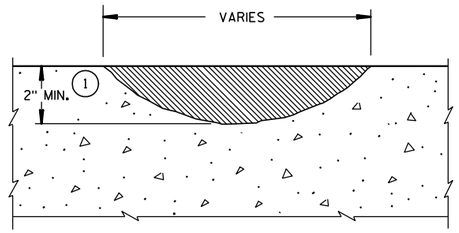
*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

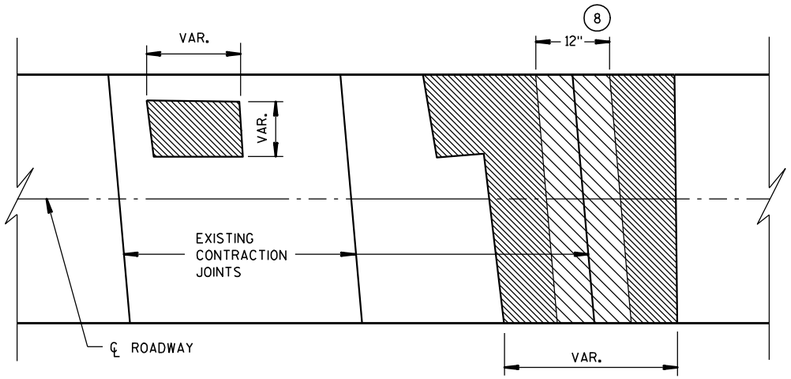
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/10/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 6-4

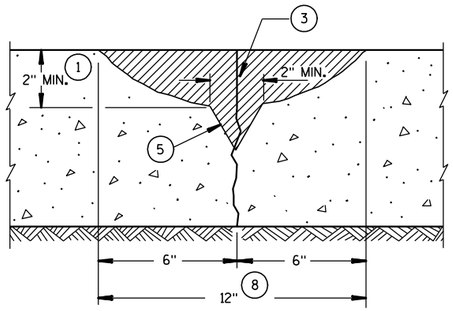


PROFILE VIEW

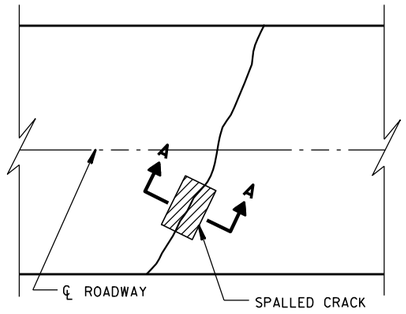


PLAN VIEW

SURFACE REPAIR



SECTION A-A

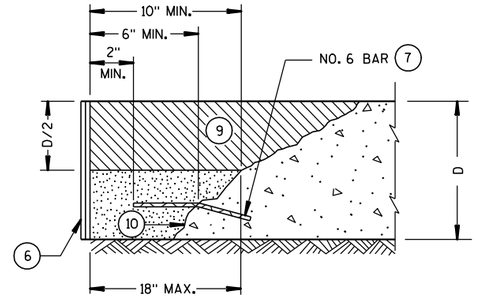


PLAN VIEW

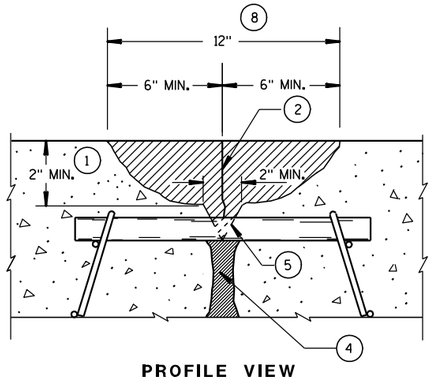
CRACK REPAIR

GENERAL NOTES

1. REMOVE ALL CONCRETE, TO LIMITS SHOWN, TO A MAXIMUM OF ½ THE PAVEMENT DEPTH OR TOP OF DOWELS.
2. IF REPAIR IS DEEPER THAN ANTICIPATED SAWCUT, COMPRESSION RELIEF MATERIAL MUST BE USED. THE THICKNESS OF COMPRESSION RELIEF MATERIAL MUST BE EQUAL TO OR GREATER THAN THE WIDTH OF THE JOINT OR CRACK (1/4"). THIS MATERIAL SHOULD EXTEND FULL DEPTH OF THE REPAIR.
3. COMPRESSION RELIEF MATERIAL MUST BE USED. THE THICKNESS OF COMPRESSION RELIEF MATERIAL MUST BE EQUAL TO OR GREATER THAN THE WIDTH OF THE JOINT OR CRACK (1/4"). THIS MATERIAL SHOULD EXTEND FULL DEPTH OF THE REPAIR.
4. CLEAN, DRY SAND WHEN NECESSARY.
5. REMOVE UNSOUND MATERIAL BY CHIPPING AT 1:1 SLOPE.
6. ¼" MINIMUM PREFORMED JOINT FILLER IF ADJACENT TO CONCRETE. EDGING REQUIRED. FULLY FORMED EDGE IF ADJACENT TO SHOULDER.
7. PAVEMENT TIES AS SHOWN. ALL EMBEDMENTS 6" MINIMUM AND INSTALLED WITH GROUT.
8. OVER 12" (NOMINAL WIDTH) WILL BE PAID AS SURFACE REPAIR.
9. PAID AS JOINT OR CRACK REPAIR.
10. FULL-DEPTH ADJUSTMENT SHALL BE CHIPPED TO BOTTOM OF PCC PAVEMENT AT 1:1 SLOPE.
11. BEYOND 18" WILL BE PAID AS SURFACE REPAIR.

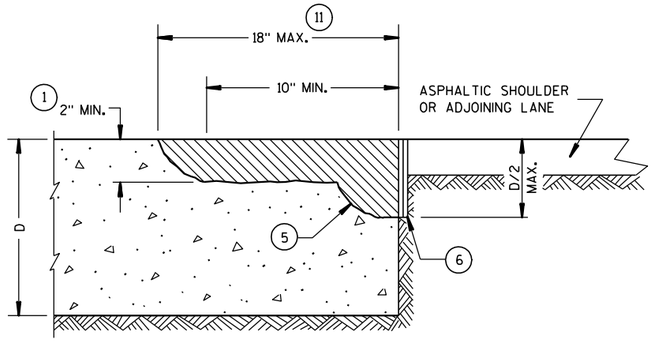


PROFILE VIEW

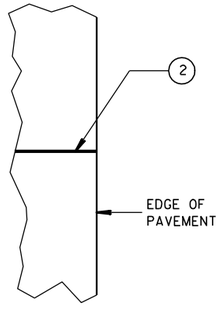


PROFILE VIEW

JOINT REPAIR

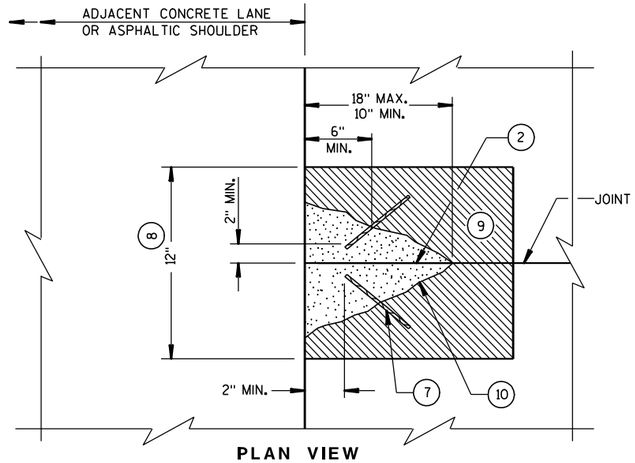


PROFILE VIEW



PLAN VIEW

EDGE REPAIR



PLAN VIEW

FULL DEPTH REPAIR ADJUSTMENT

CONCRETE PAVEMENT PARTIAL DEPTH REPAIR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/21/03 DATE
/S/ Bill Duckett PAVEMENT ENGR
FHWA

6

S.D.D. 13 C 8-2

6

S.D.D. 13 C 8-2

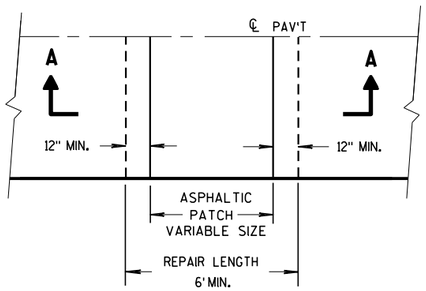
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

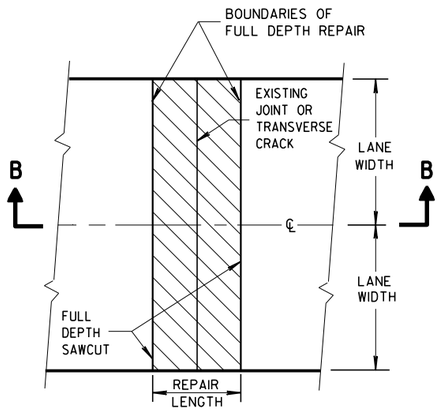
PROVIDE A 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK IN THE SAME LANE.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

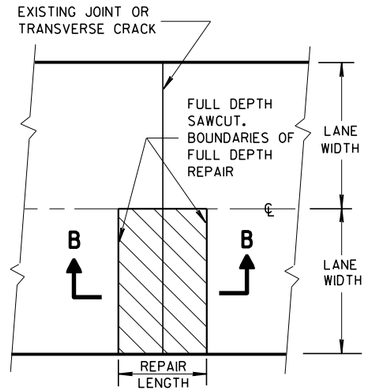
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW

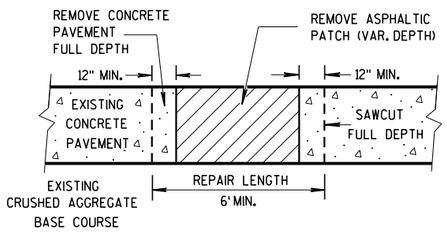


PLAN VIEW
(DOUBLE LANE REPAIR)



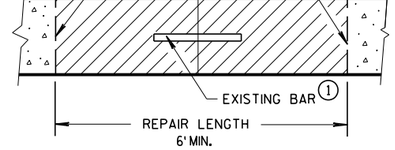
PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION A-A

HMA PATCH REMOVAL



SECTION B-B

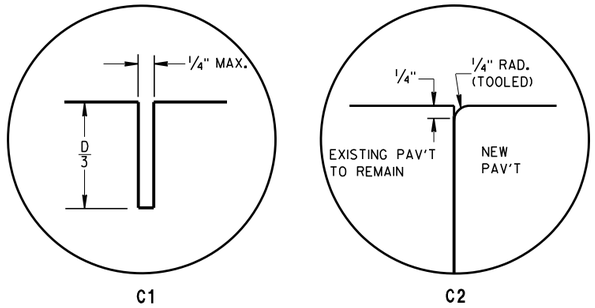
CONCRETE REMOVAL

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 13 C 9-15a



C1 C2

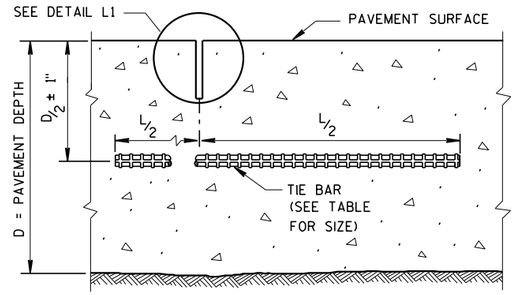
TRANSVERSE JOINTS

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



SECTION C-C

SAWED LONGITUDINAL JOINT

GENERAL NOTES

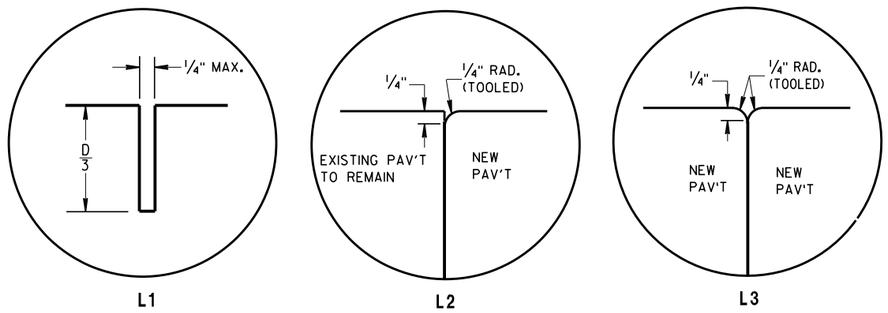
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

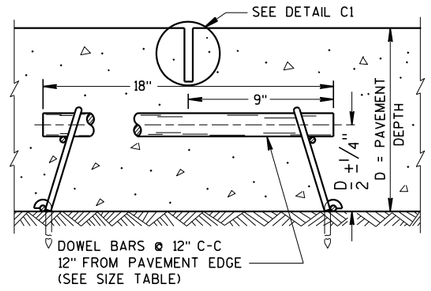
FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



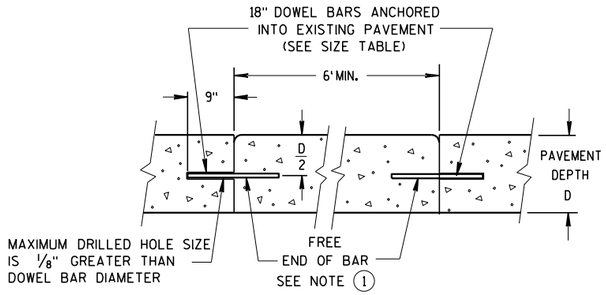
L1 L2 L3

LONGITUDINAL JOINTS

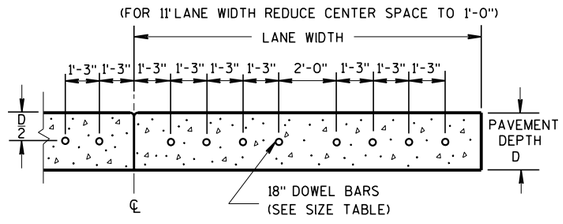


SECTION F-F

CONTRACTION JOINT



SECTION D-D

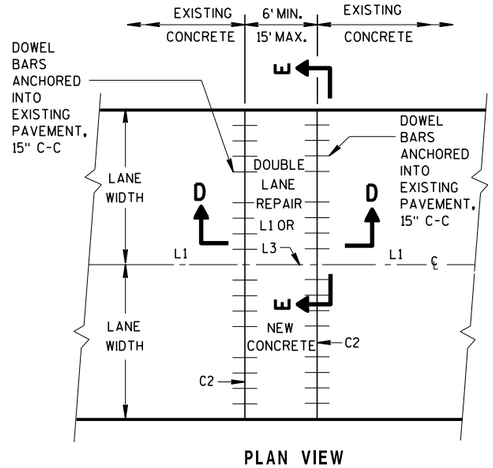


SECTION E-E

DRILLED DOWEL BAR CONSTRUCTION JOINT

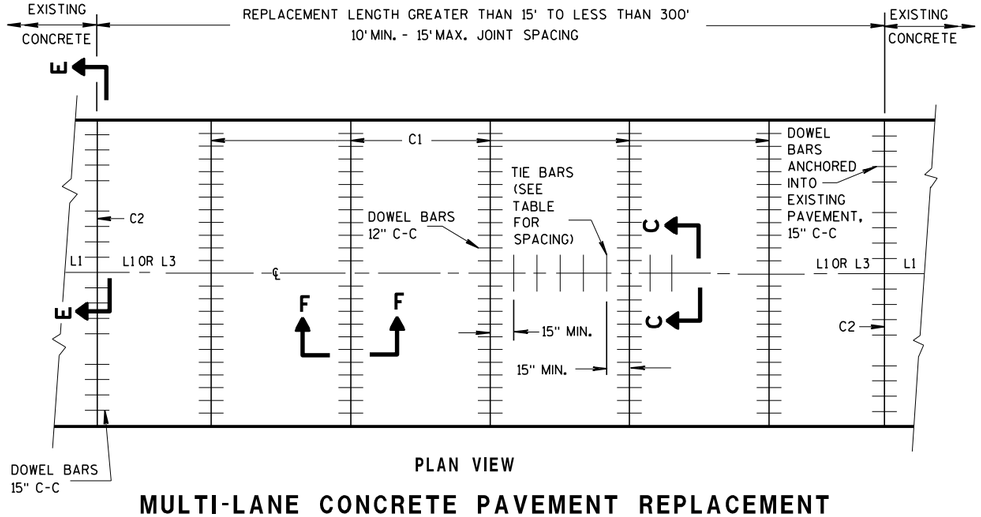
PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	DRILLED DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2", 6", 6 1/2"	NONE	NONE	12'
7", 7 1/2"	1"	1"	14'
8", 8 1/2"	1 1/4"	1 1/4"	15'
9", 9 1/2"	1 1/4"	1 1/4"	15'
10" & ABOVE	1 1/2"	1 1/4"	15'



PLAN VIEW

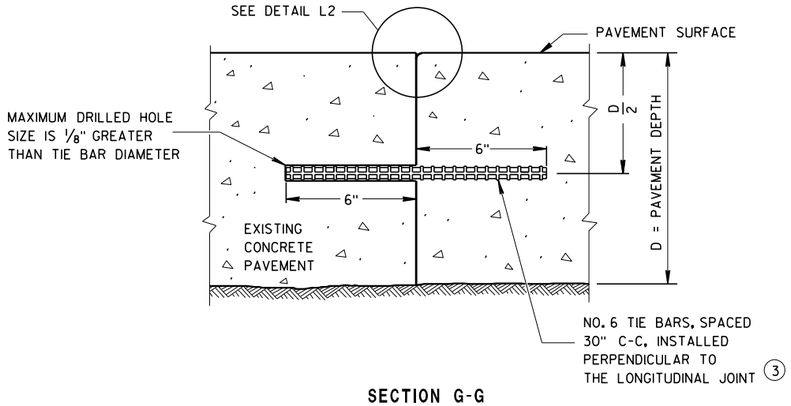
MULTI-LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

MULTI-LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT



SECTION G-G

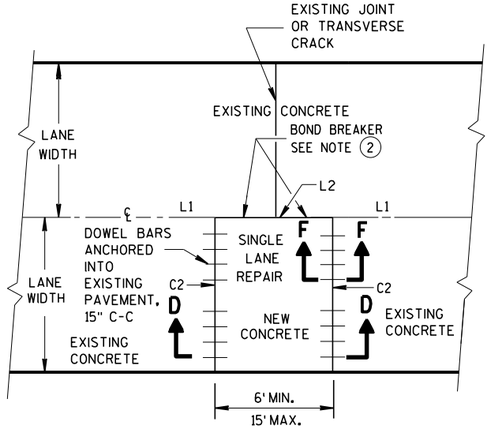
TIE BARS ANCHORED INTO EXISTING PAVEMENT

GENERAL NOTES

(1) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

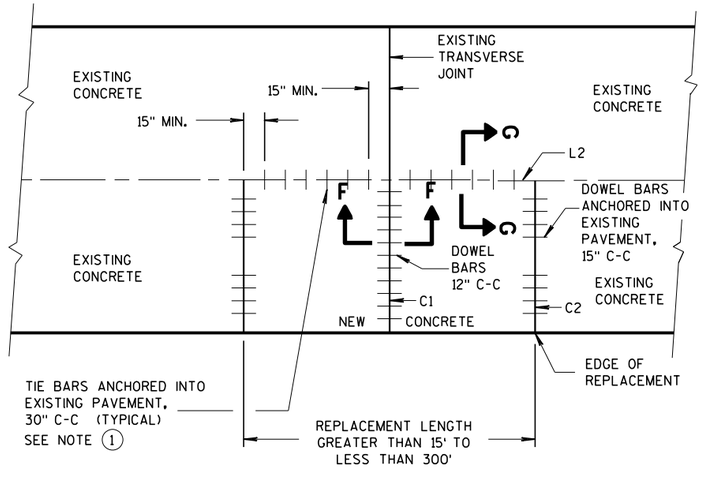
(2) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.

(3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

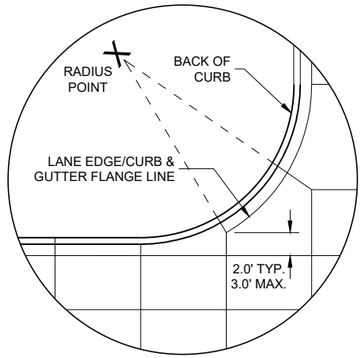
SINGLE LANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

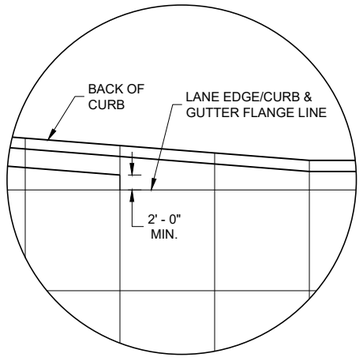
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Ken... P.E. — PAVEMENT SUPE...
FHWA

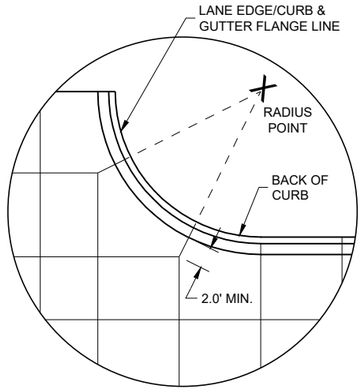
S.D.D. 13 C 9-15c



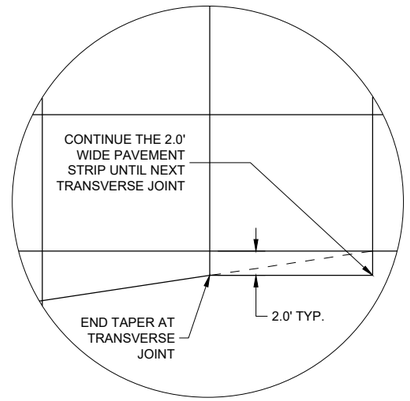
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

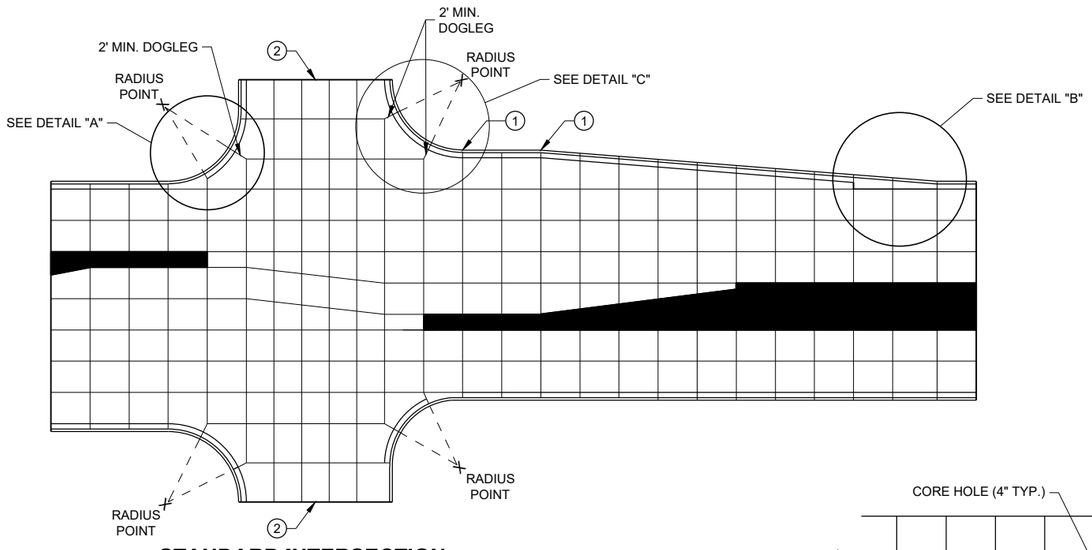
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.

(2) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.

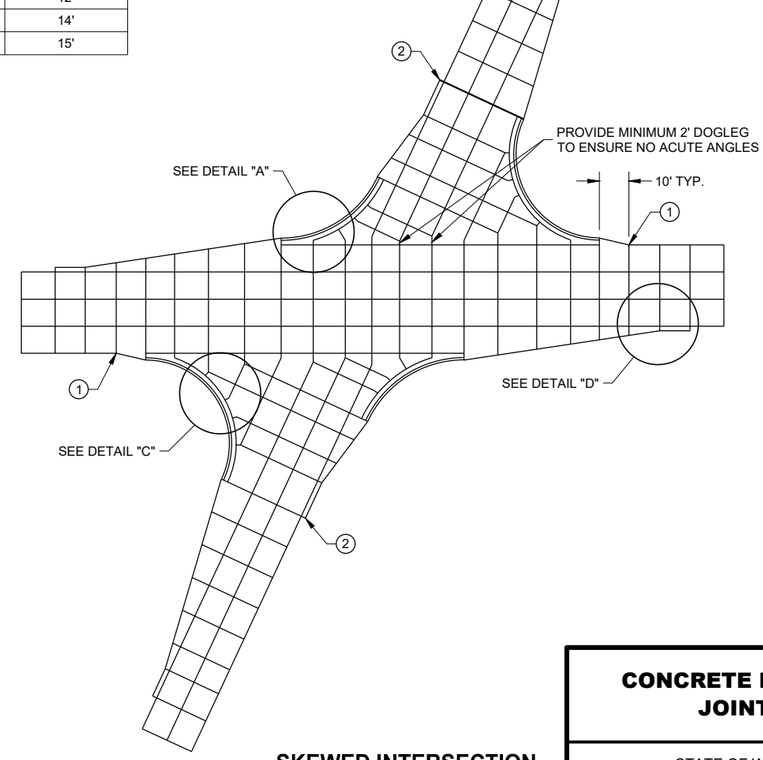
(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



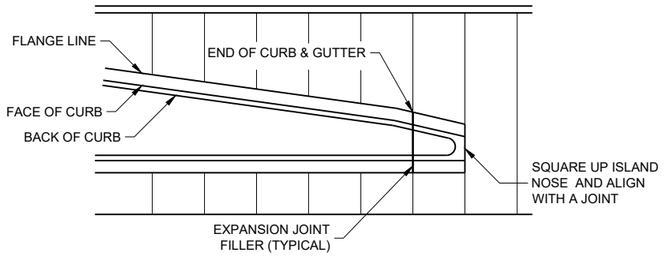
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

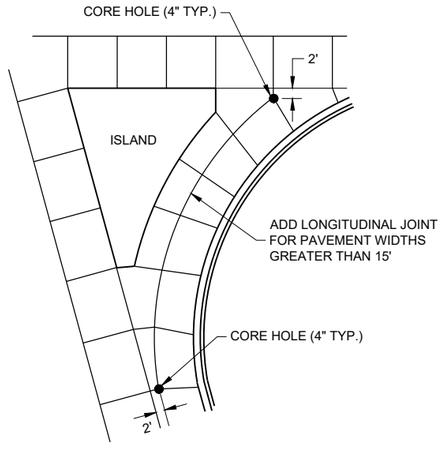
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



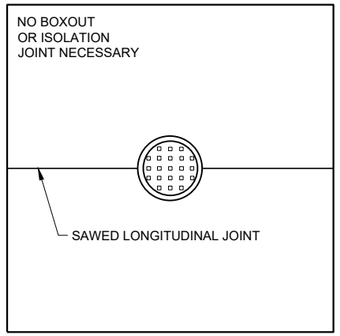
APPROACH TO MEDIAN



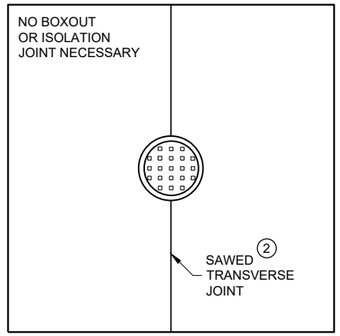
LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

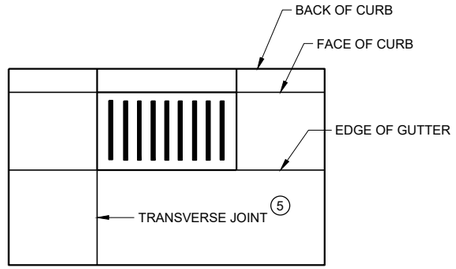
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MANHOLE WITH LONGITUDINAL JOINT



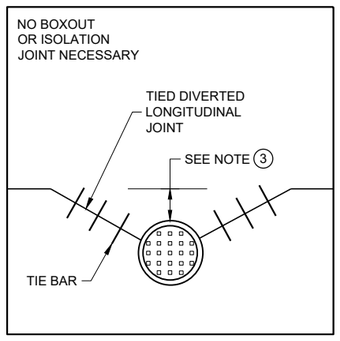
MANHOLE WITH TRANSVERSE JOINT



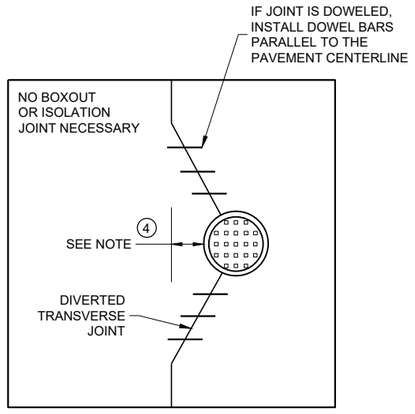
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

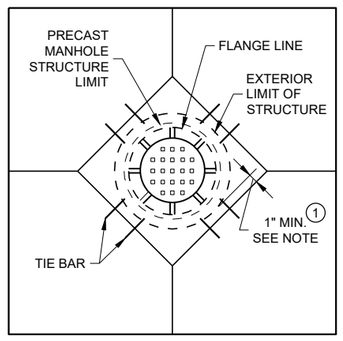
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

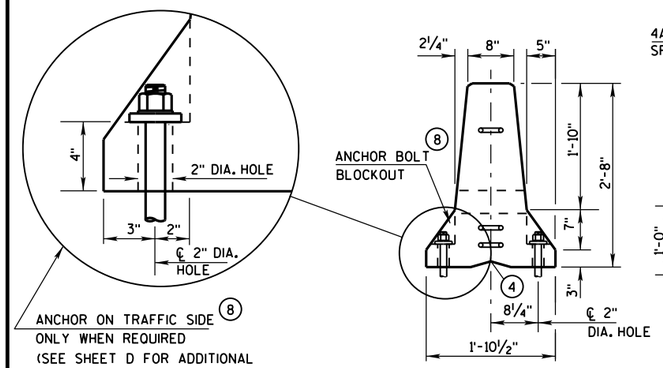
APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

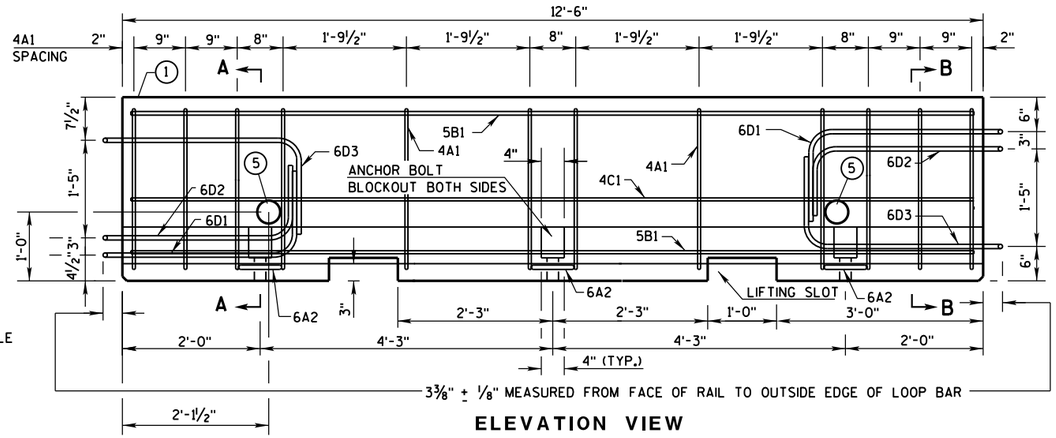
FHWA

6

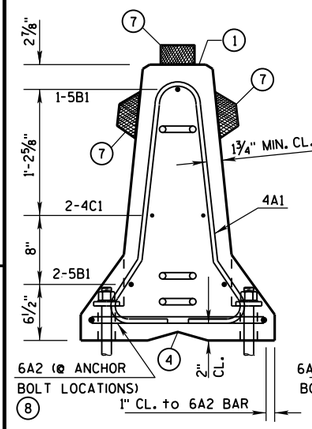
SDD13C18 - 07d
SDD13C18 - 07d



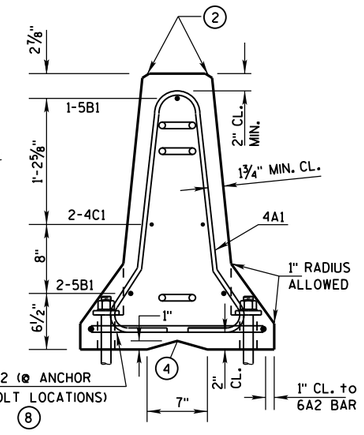
END VIEW



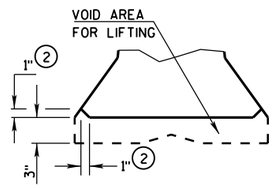
ELEVATION VIEW



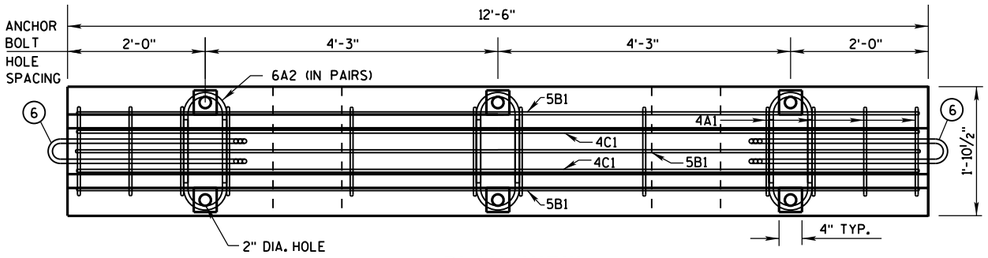
SECTION A-A
(STIRRUP PLACEMENT)



SECTION B-B
(STIRRUP PLACEMENT)

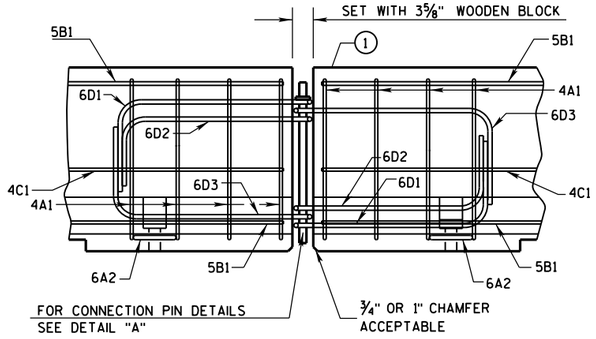


DETAIL "B"
LIFTING SLOT DETAIL

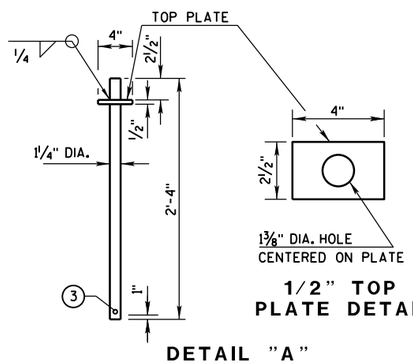


PLAN VIEW

DETAILS OF BARRIER SECTION

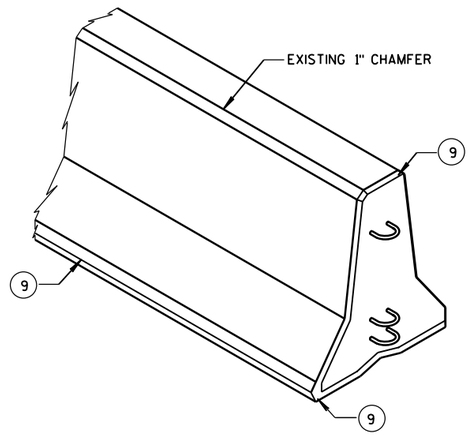


DETAILS OF BARRIER CONNECTION



1/2" TOP
PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-15(a) THRU 14B7-15(i).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

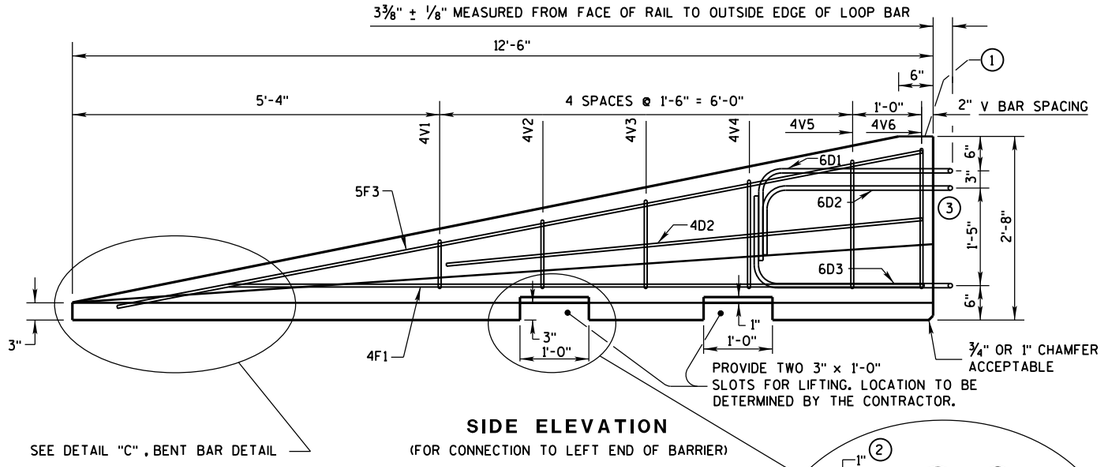
(8) SEE SHEET D FOR HOW TO ANCHOR BARRIER. SEE SHEET E FOR WHEN TO ANCHOR BARRIER.

(9) 1" CHAMFER OPTIONAL.

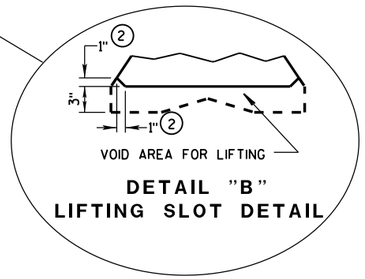
f'c = 4,000 psi

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

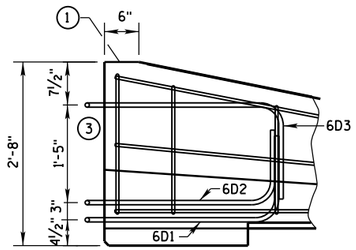
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 351



SIDE ELEVATION
(FOR CONNECTION TO LEFT END OF BARRIER)



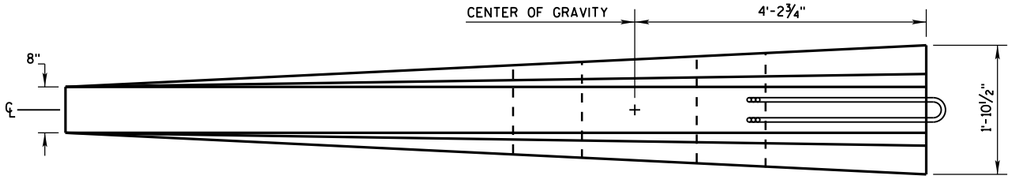
DETAIL "B"
LIFTING SLOT DETAIL



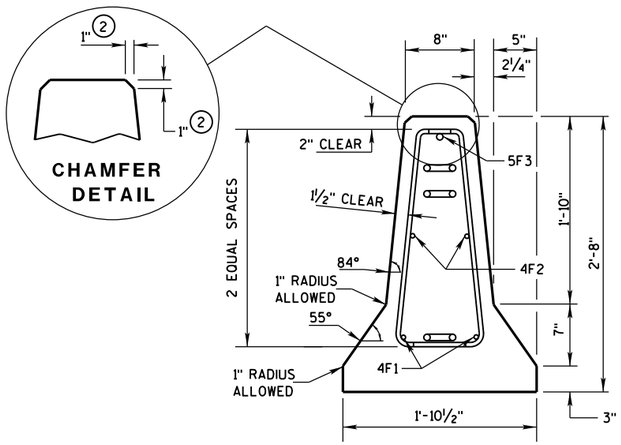
SIDE ELEVATION
LOOP BAR ASSEMBLY INVERTED
FOR OPPOSITE END.
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

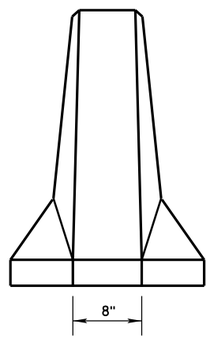
1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.



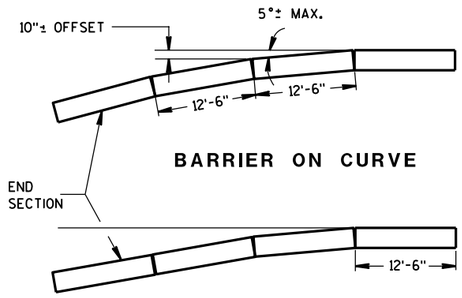
PLAN VIEW



END SECTION



FRONT ELEVATION



BARRIER ON CURVE

FLARE AT BARRIER END

POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

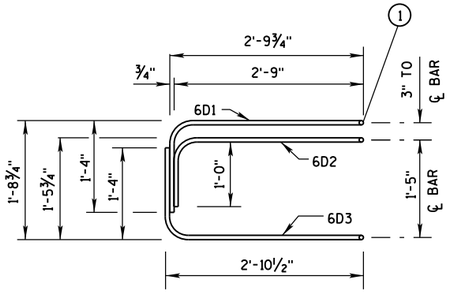
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15b

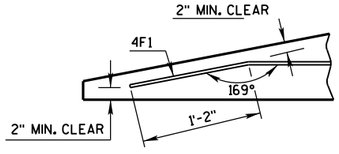
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

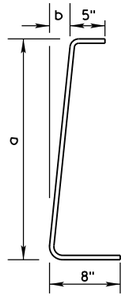
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

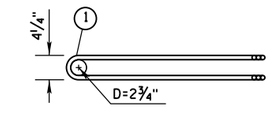
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

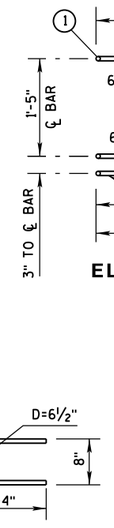
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

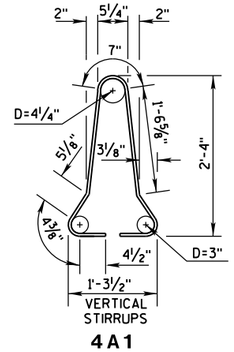


PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



6A2

ELEVATION VIEW



4A1

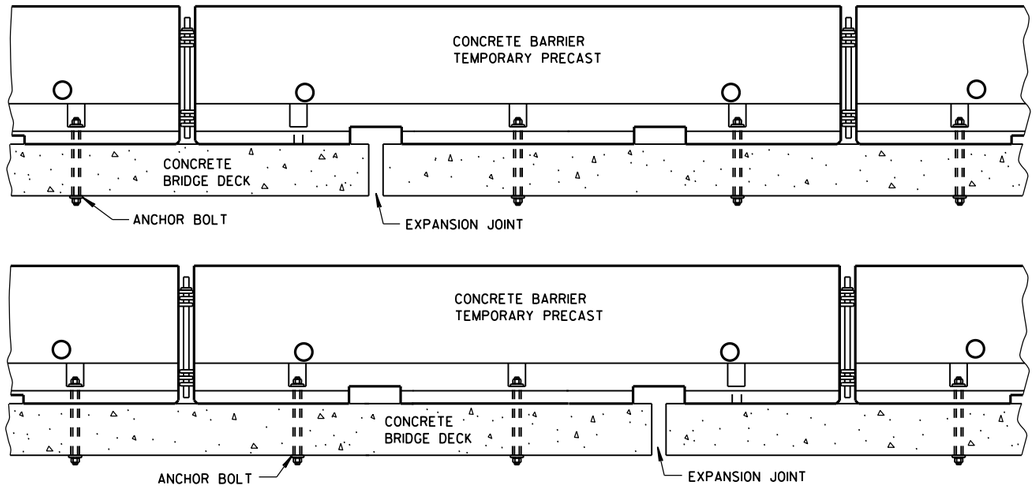
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 7-15c



TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)

GENERAL NOTES

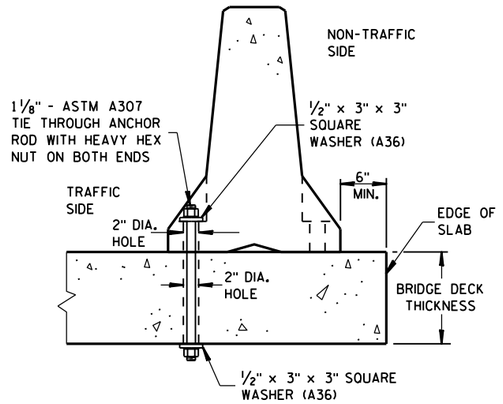
SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(1) 1⅛" DIAMENTER A307 THREADED ROD. ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL. ASTM A563A HEAVY HEX NUT.

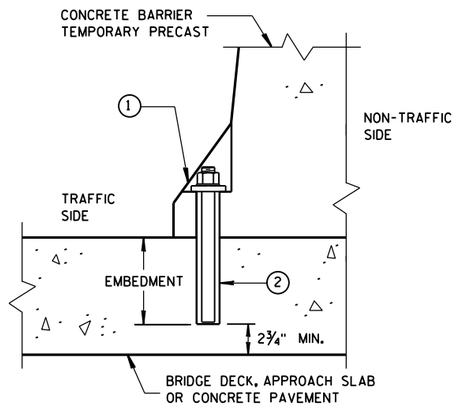
(2) ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.

(3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



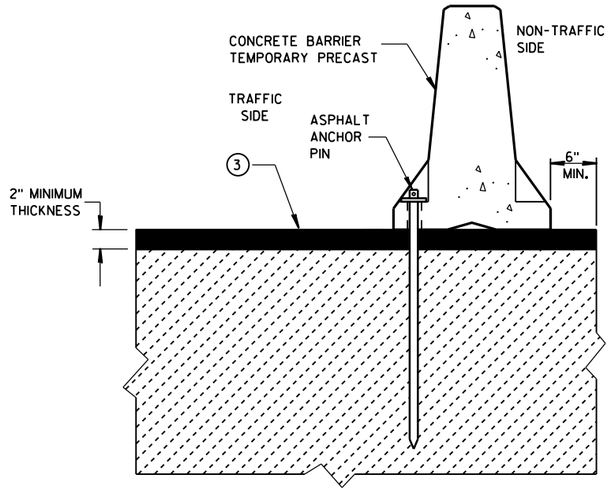
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

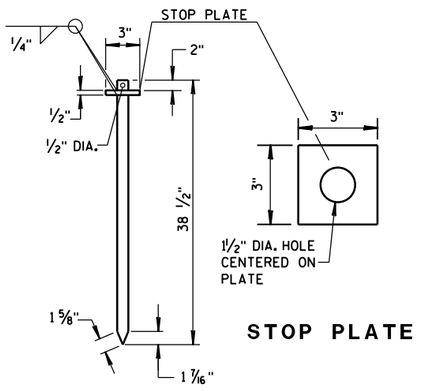


REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



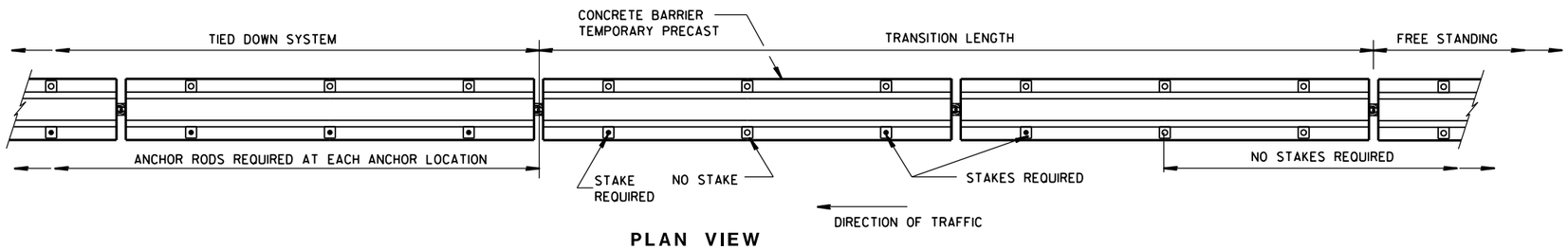
STAKE DOWN INSTALLATION FOR ASPHALTIC SURFACE



STOP PLATE

ASPHALT ANCHOR PIN

(ASTM A36 STEEL)



PLAN VIEW

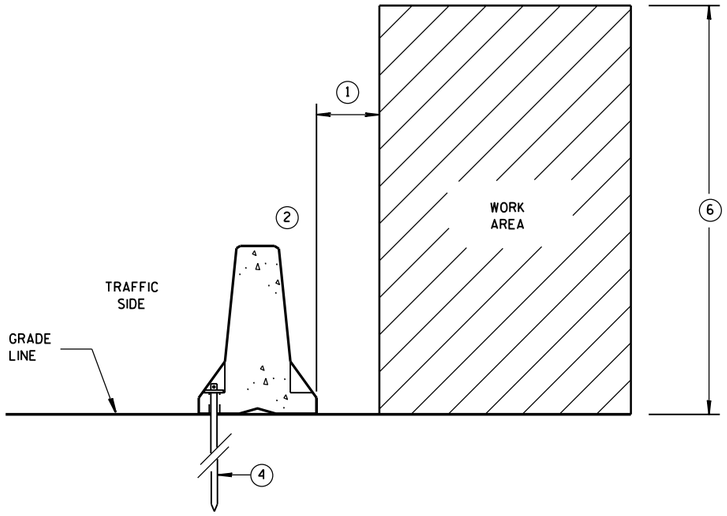
FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

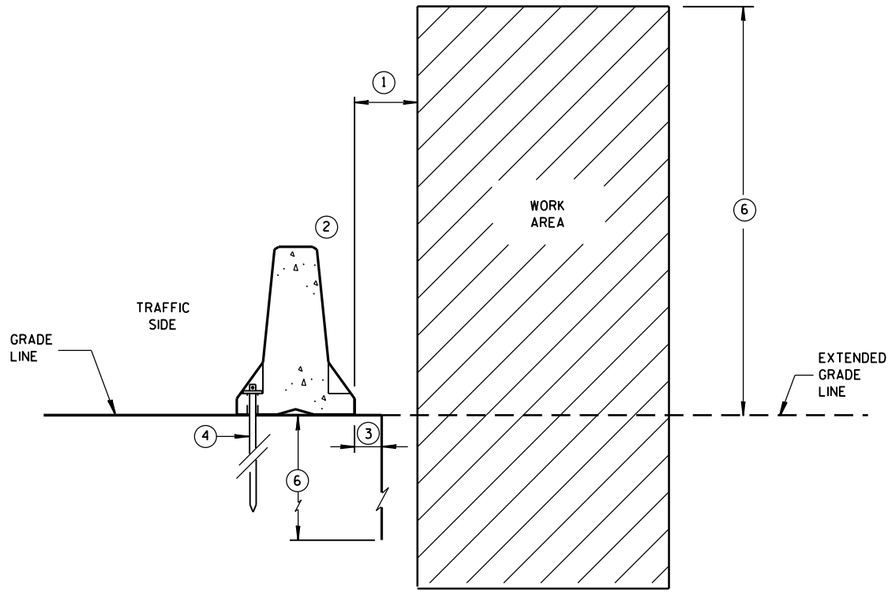
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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ANCHORED BARRIER SPACE REQUIREMENTS FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

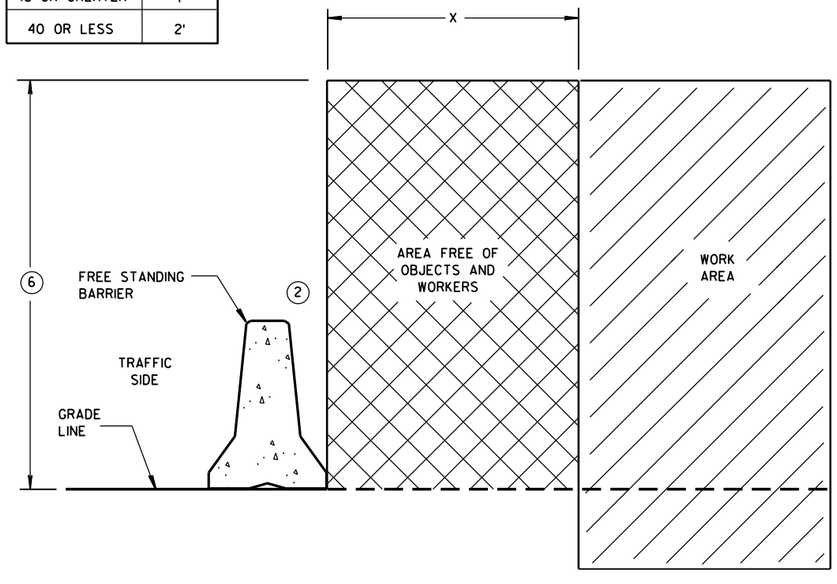


ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS

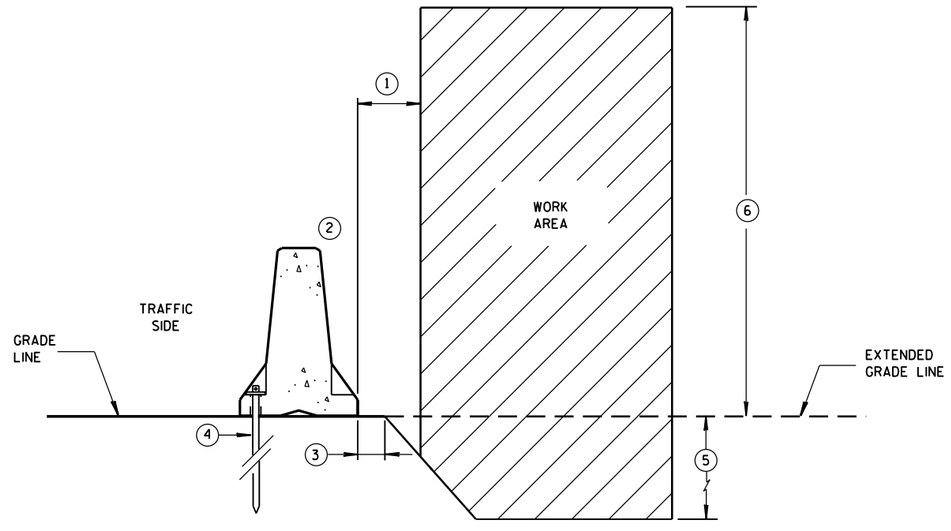
GENERAL NOTES

1. WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR VERTICAL DROPS.
2. OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
3. SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
4. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
5. DEPTH OF 3 FEET OR MORE.
6. Y = 6'-6".

POSTED SPEED MPH	X
45 OR GREATER	4'
40 OR LESS	2'



FREE STANDING BARRIER SPACE REQUIREMENTS



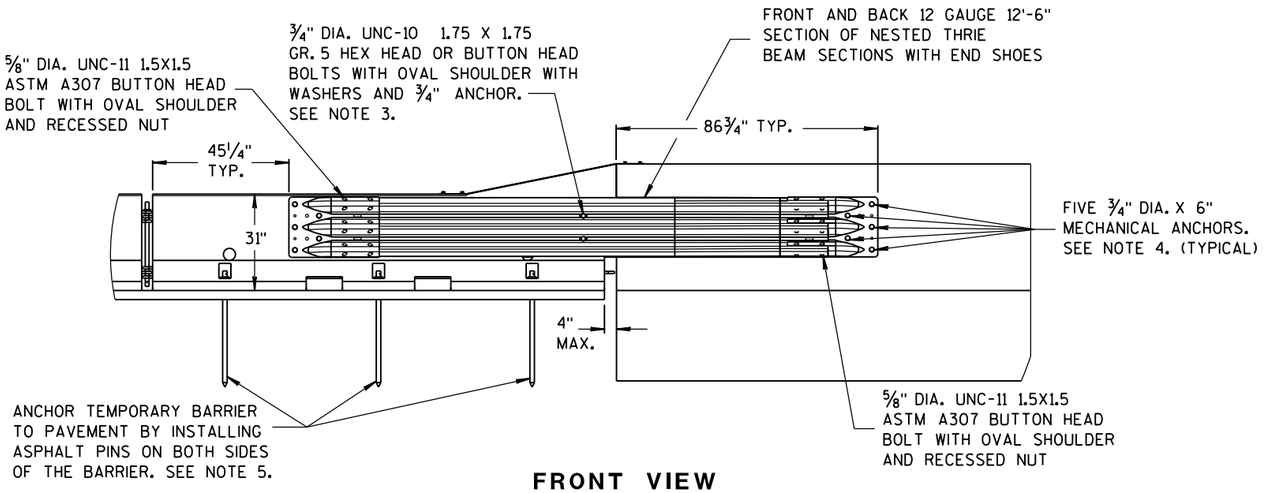
ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

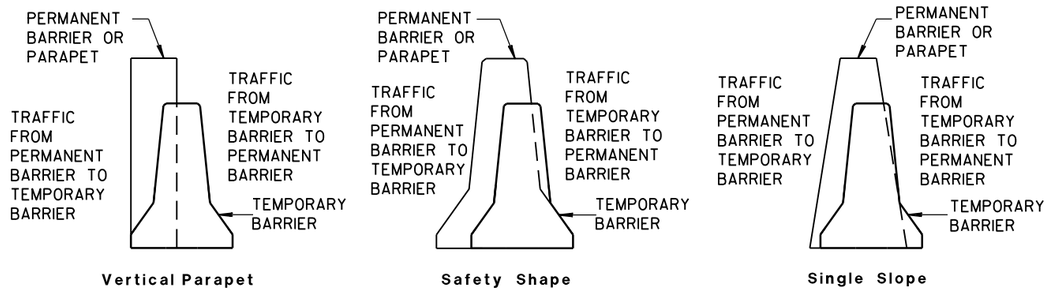
STATE OF WISCONSIN
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FRONT VIEW

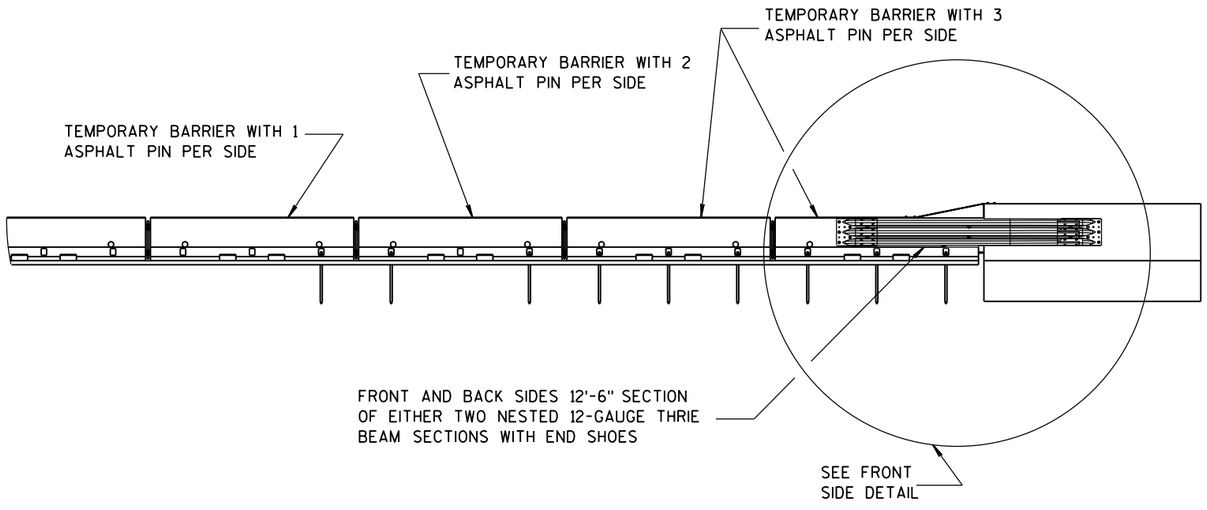


TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

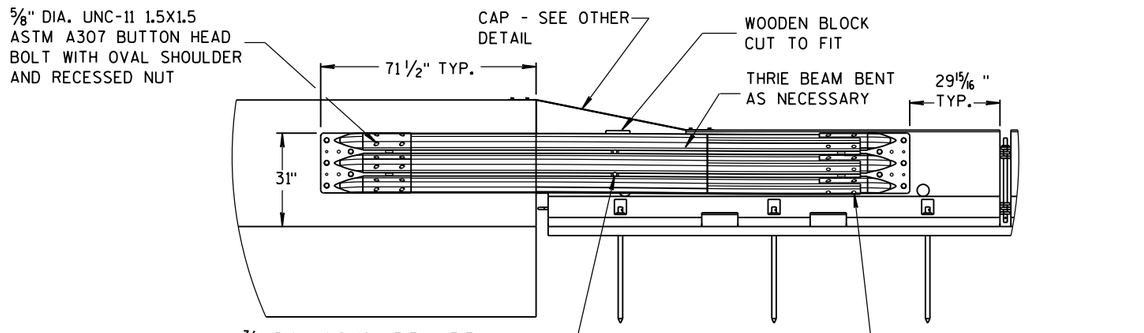
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS REGARDLESS OF TRAFFIC.

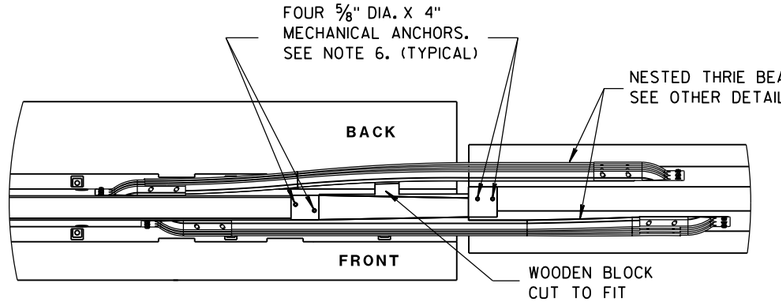
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



FRONT VIEW



BACK VIEW



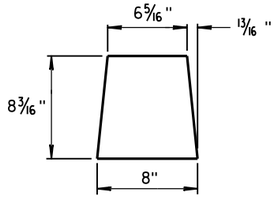
PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

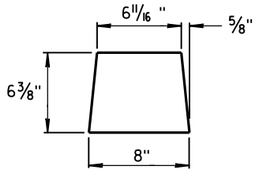
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
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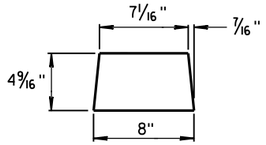
6
S.D.D. 14 B 7-15f



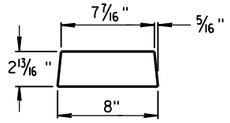
GUSSET 1



GUSSET 2

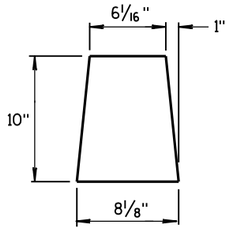


GUSSET 3

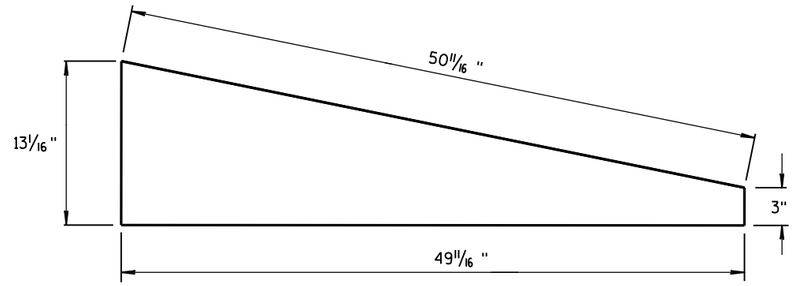


GUSSET 4

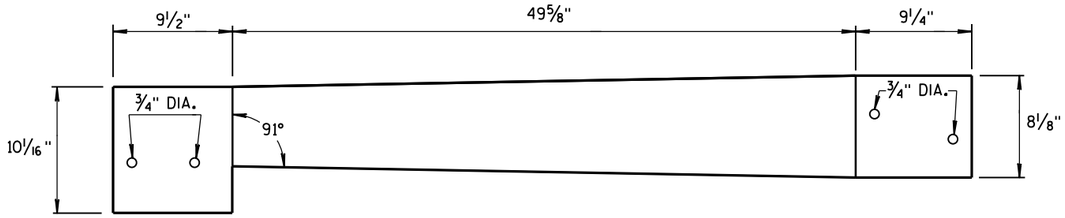
GUSSETS

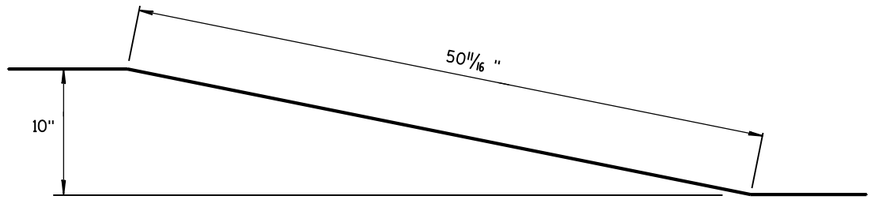


END PLATE



SIDE PLATE

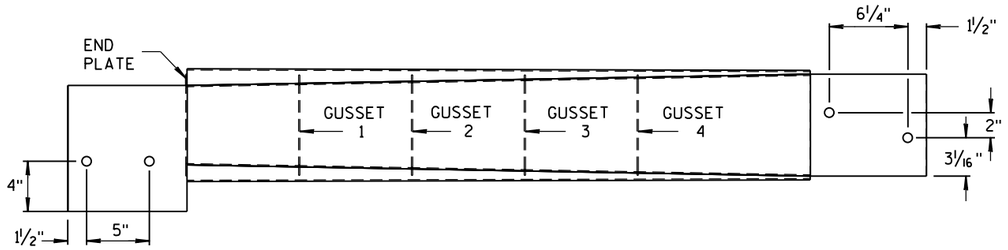


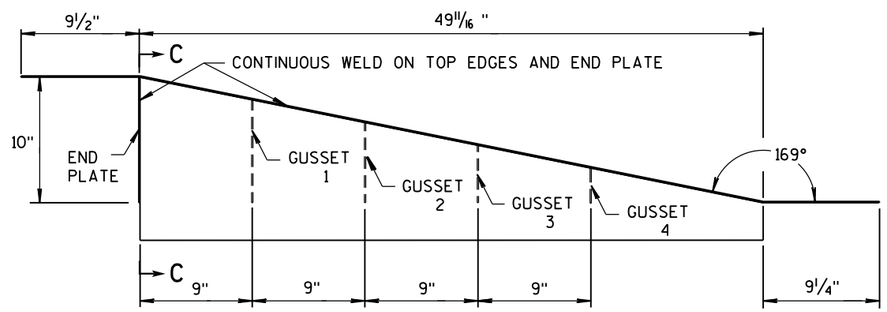


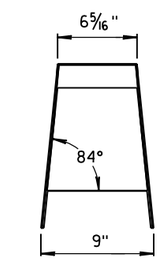
TOP PLATE

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.







SECTION C-C

NOTES

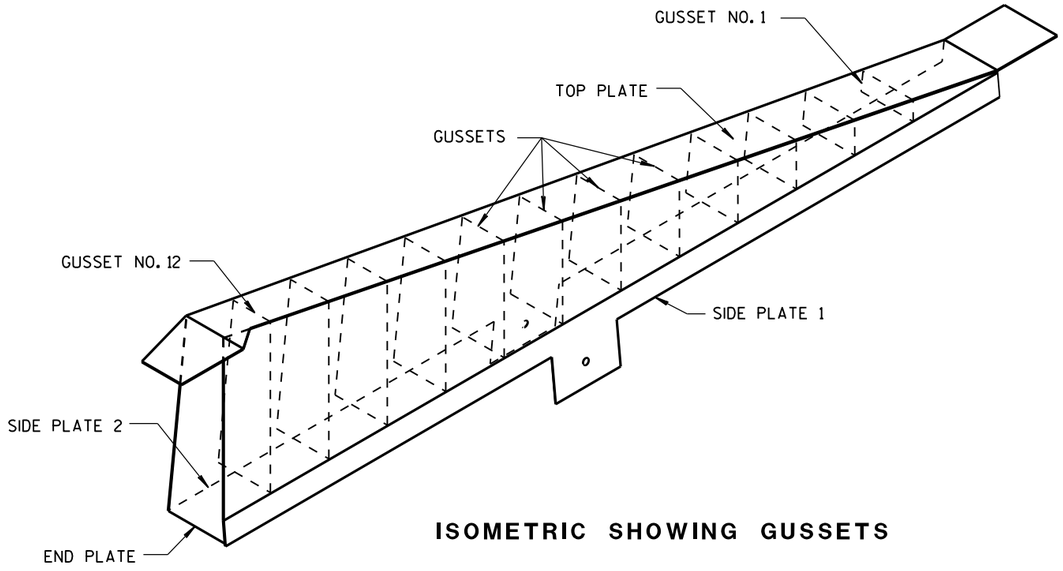
1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

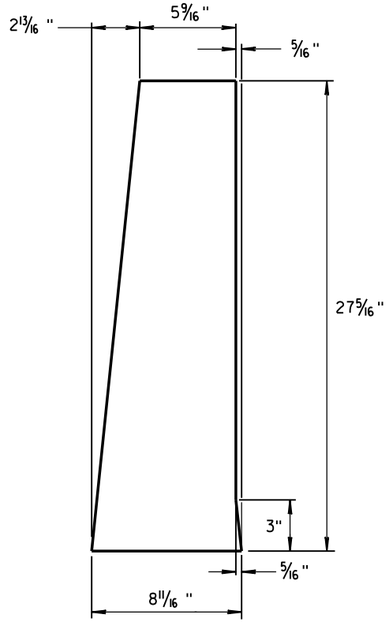
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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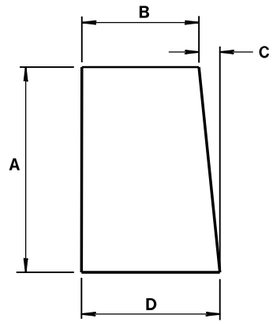


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



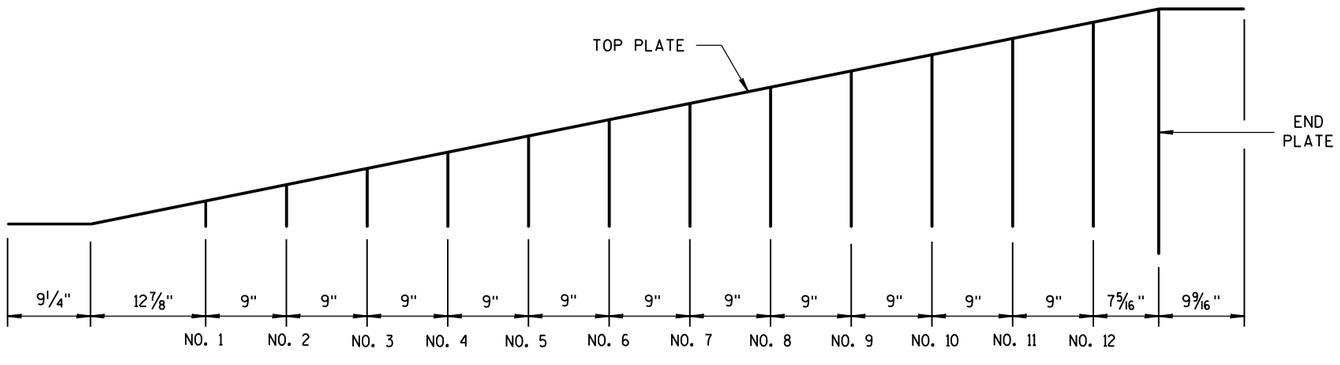
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

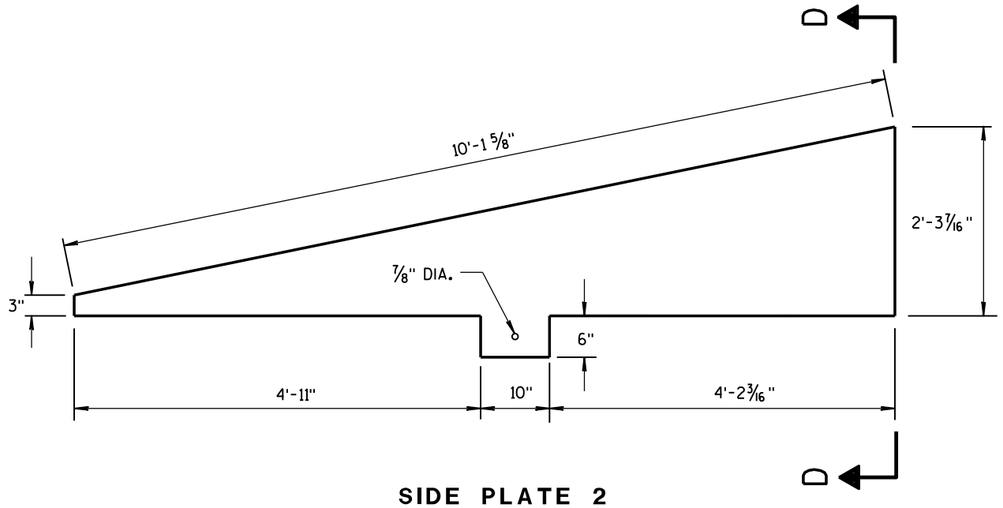
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

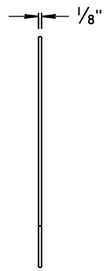
STATE OF WISCONSIN
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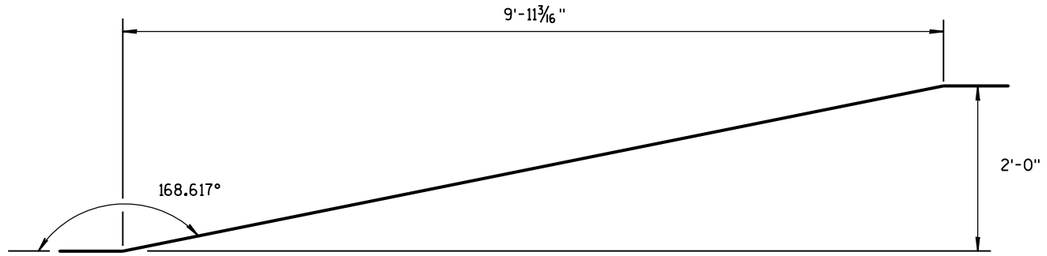
S.D.D. 14 B 7-15h



SIDE PLATE 2

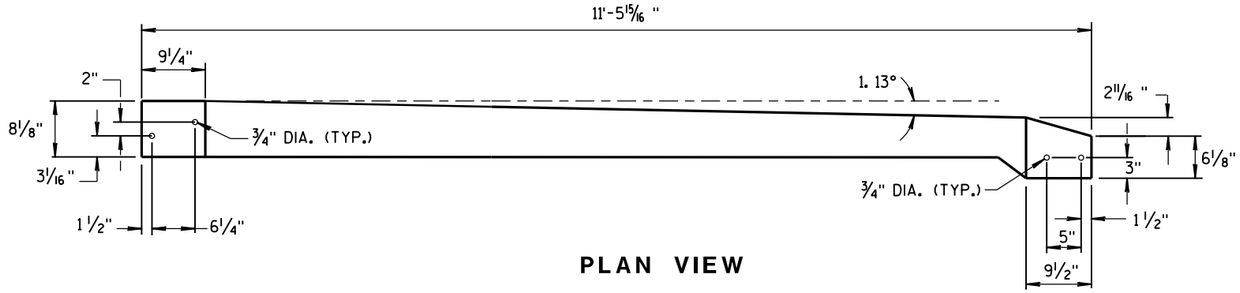


END VIEW



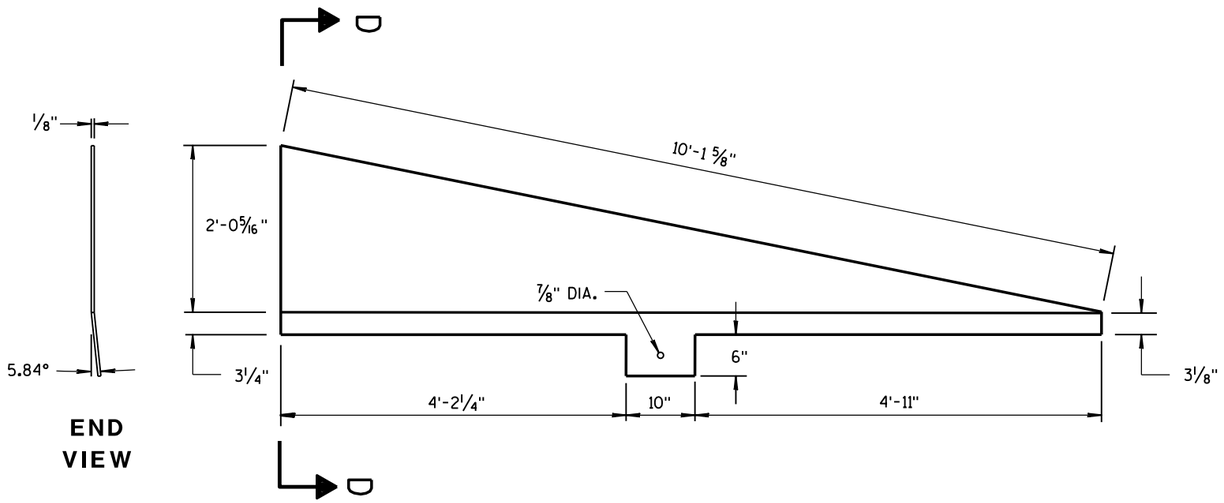
SIDE VIEW

TOP PLATE



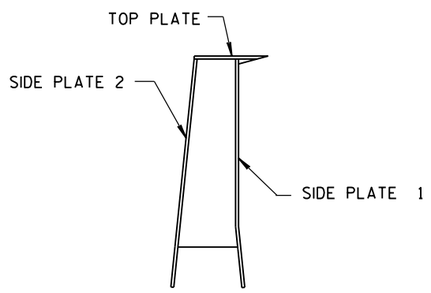
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

359

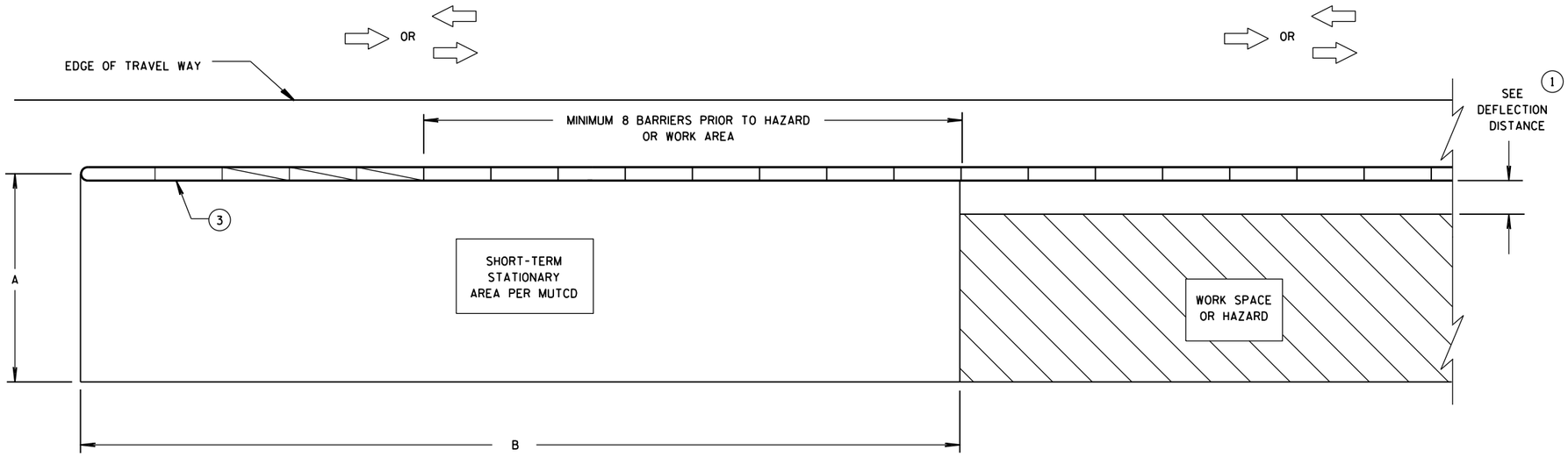
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S.D.D. 14 B 7-15i

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S.D.D. 14 B 7-15i



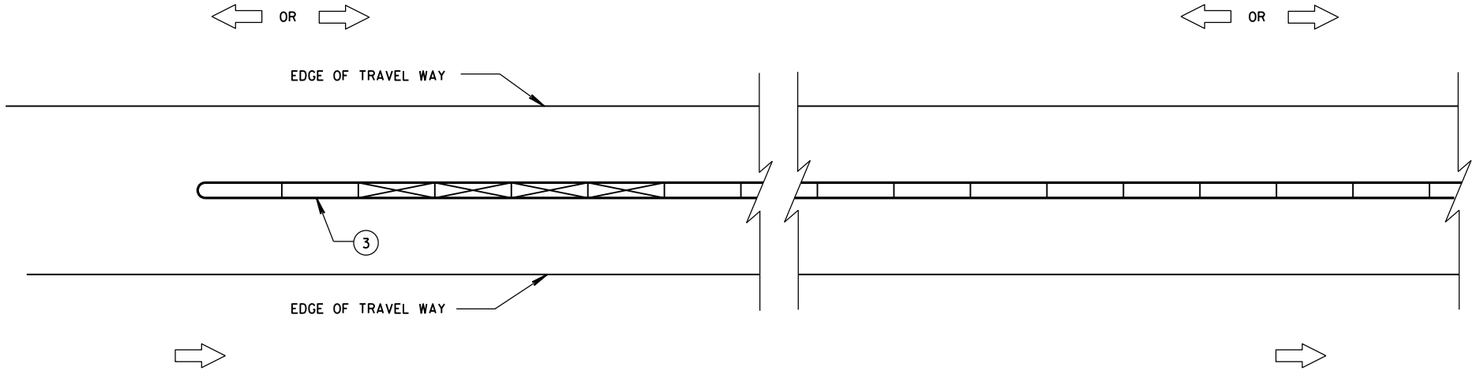
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

DIMENSION A TABLE (2)

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

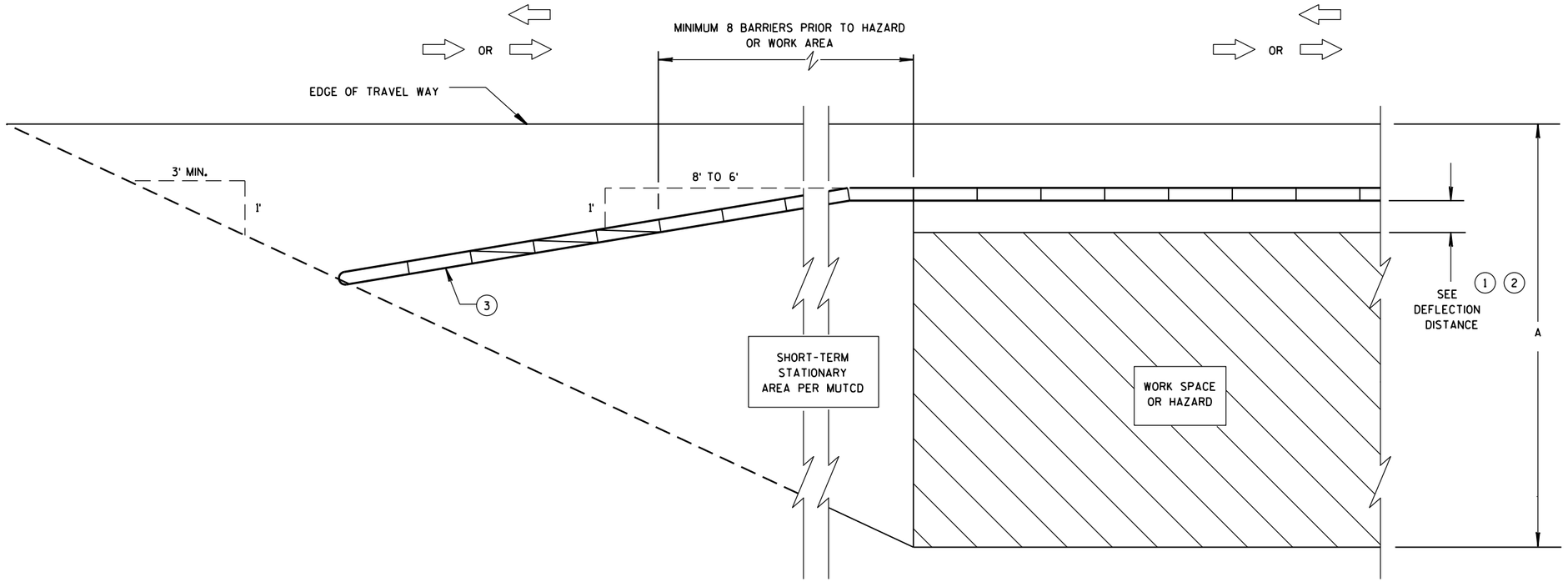
(3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

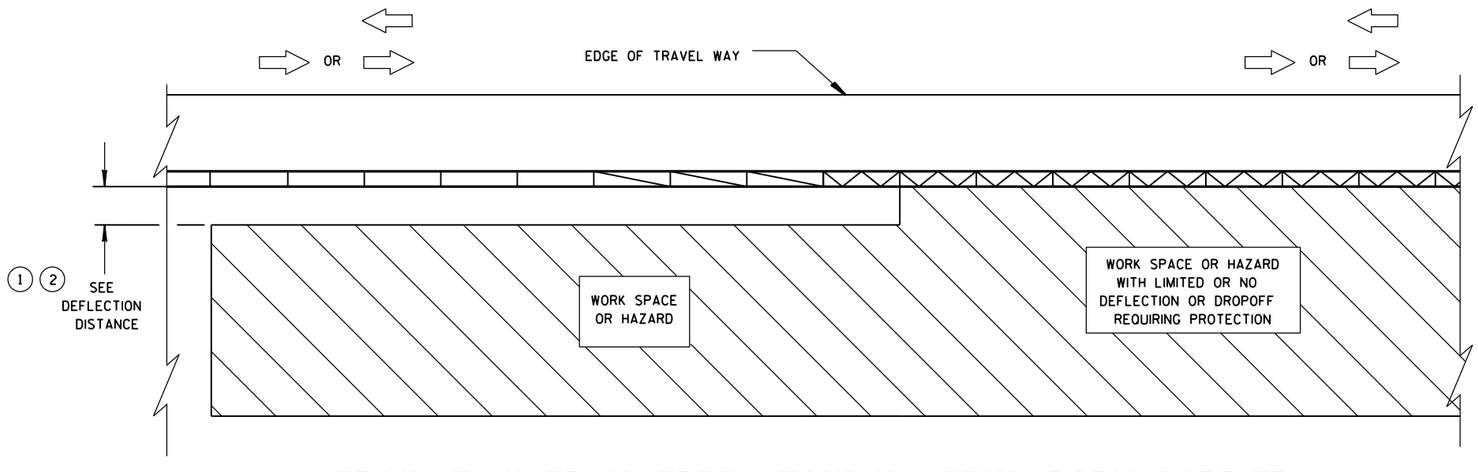
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 14 B 8-2a



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

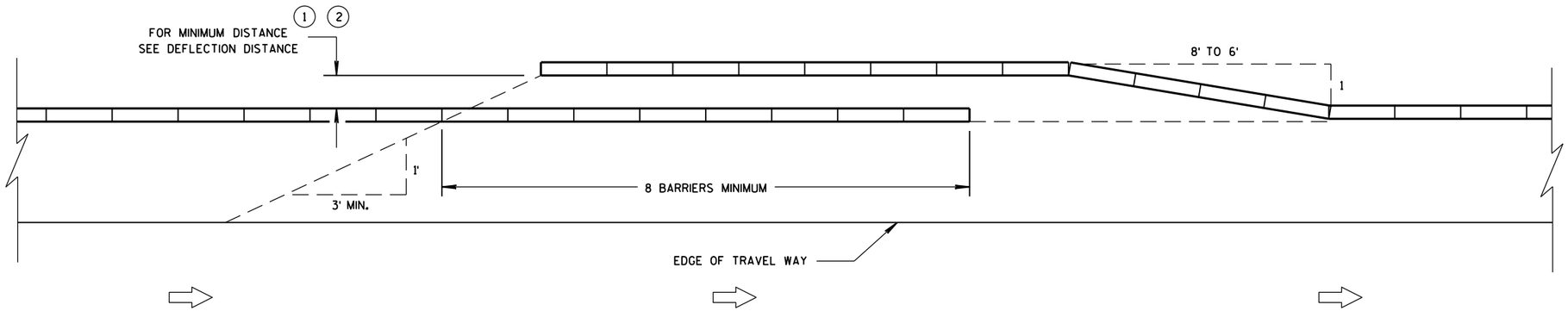
STATE OF WISCONSIN
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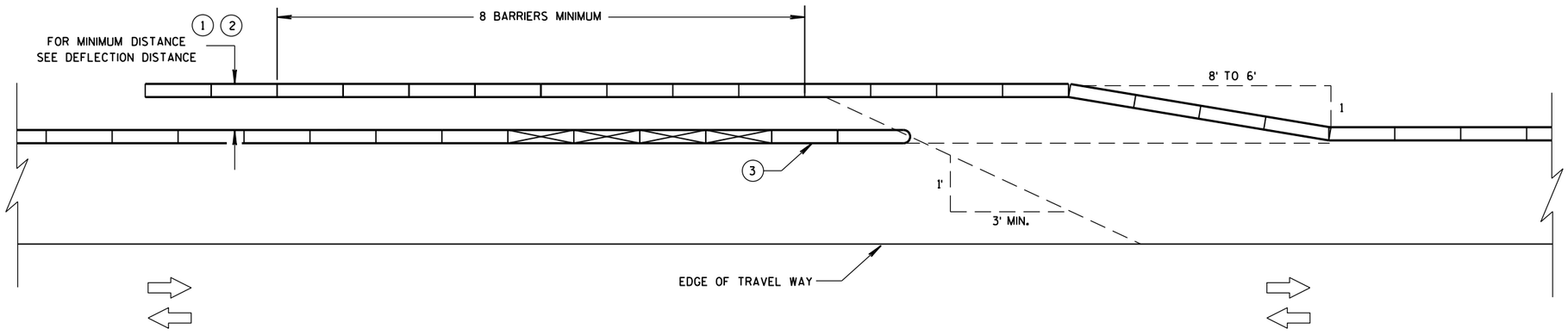
S.D.D. 14 B 8-2b

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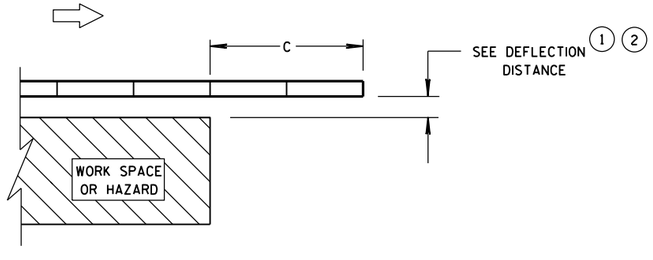
S.D.D. 14 B 8-2b



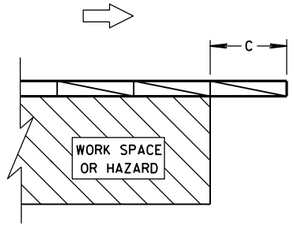
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

LEGEND

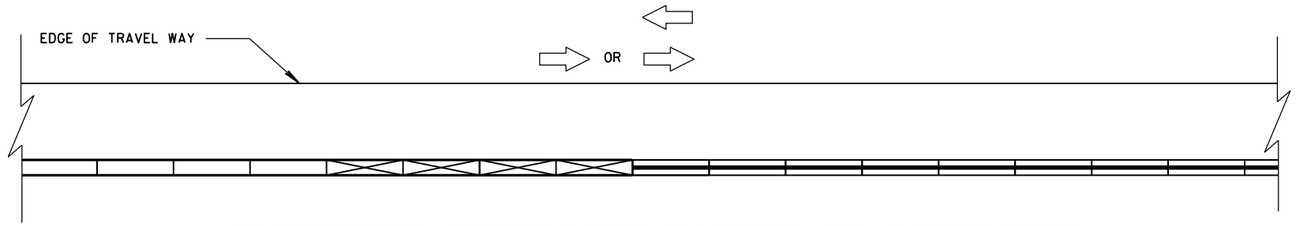
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

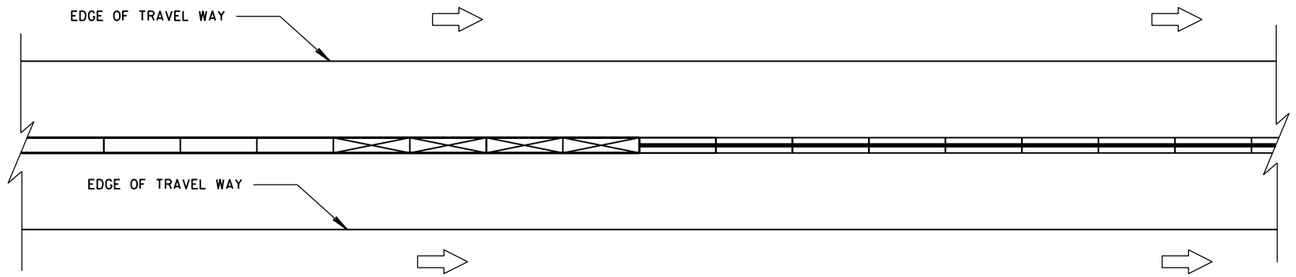
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 8-2c



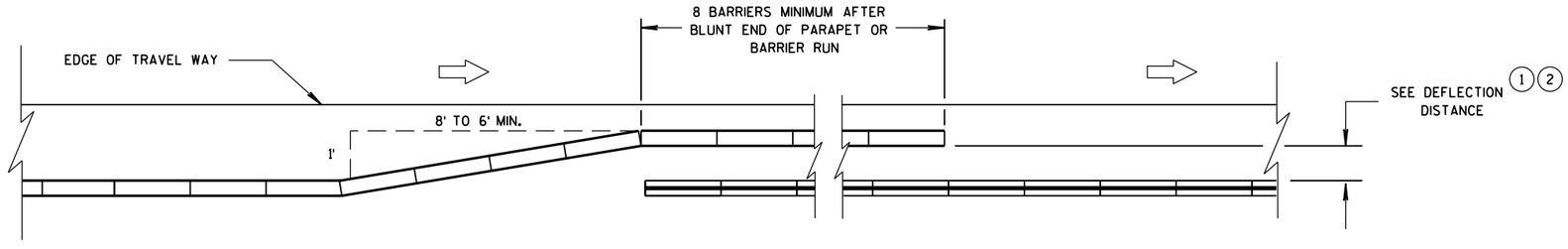
CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON ONE SIDE



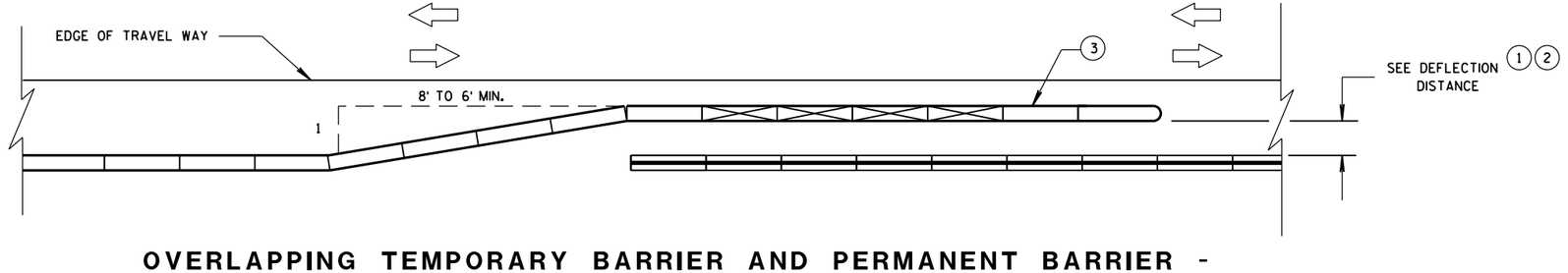
CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON BOTH SIDES

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
ONE WAY TRAFFIC



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
TWO WAY TRAFFIC

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 8-2d

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

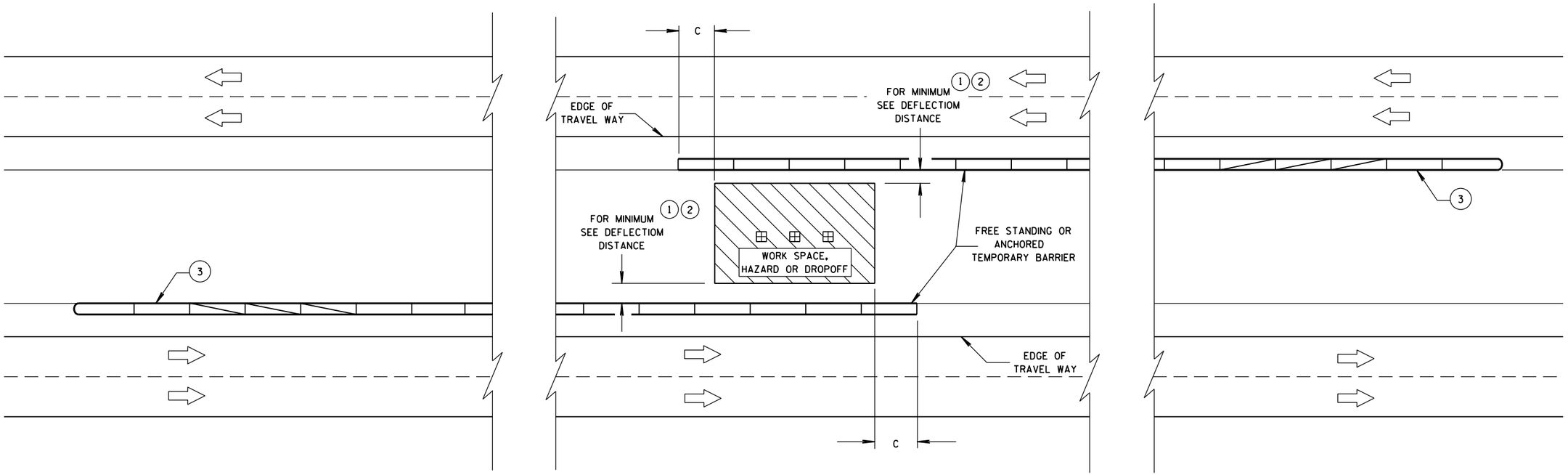
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

DIMENSION C TABLE (2)

AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



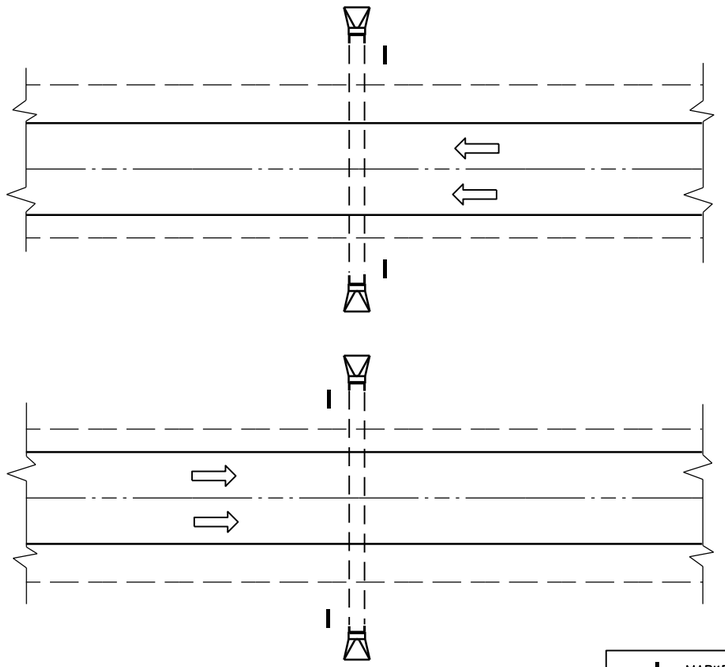
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINNER
FHWA

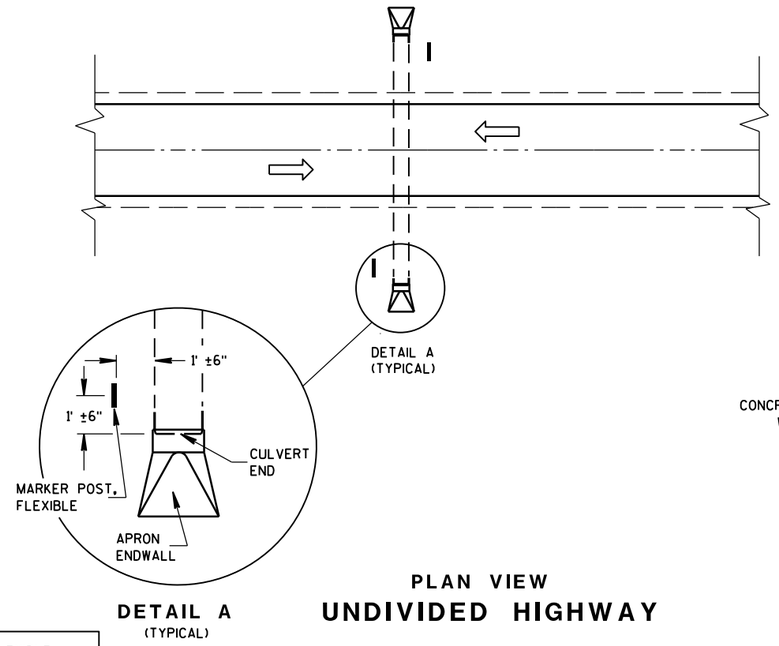
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S.D.D. 14 B 8-2e



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

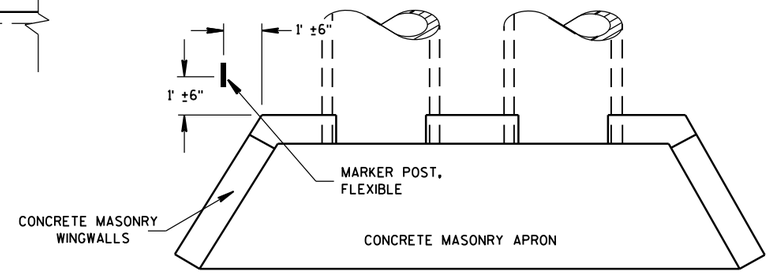
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

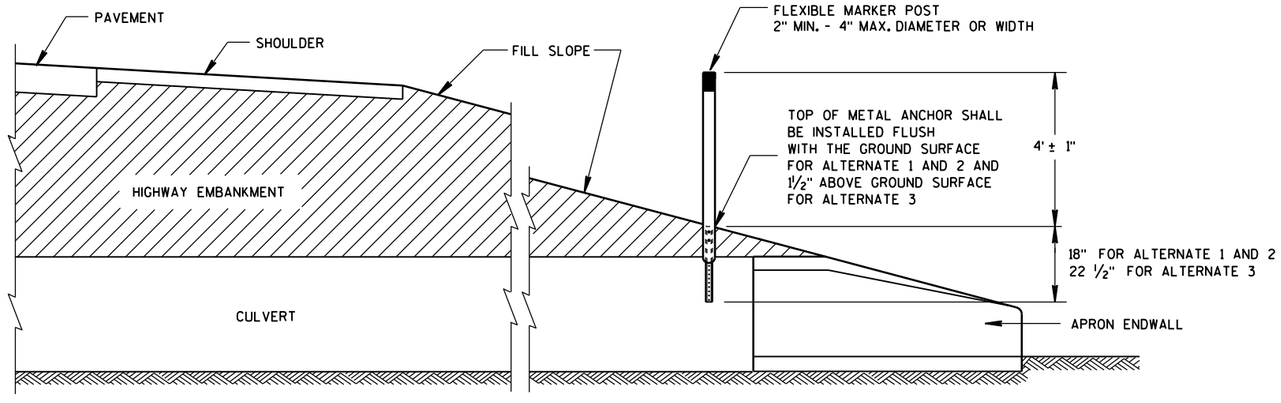
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

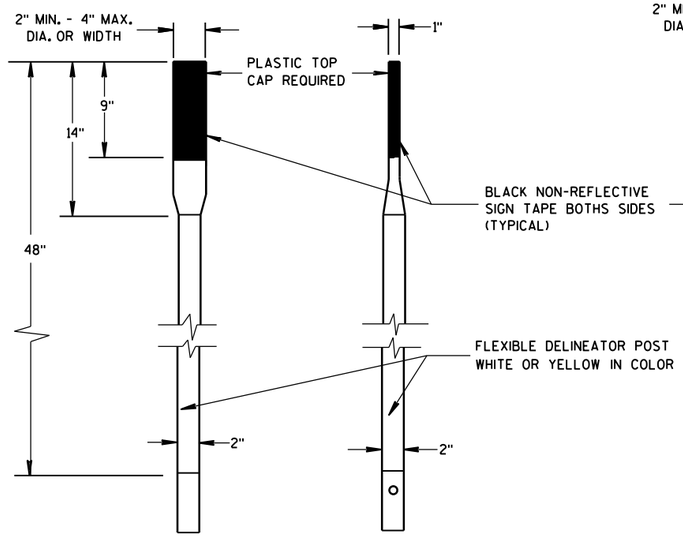
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

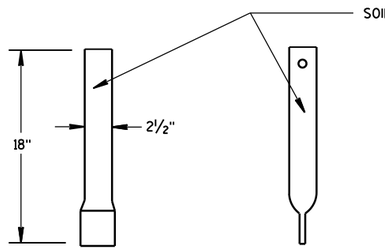
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S.D.D. 15 A 3-2a

6

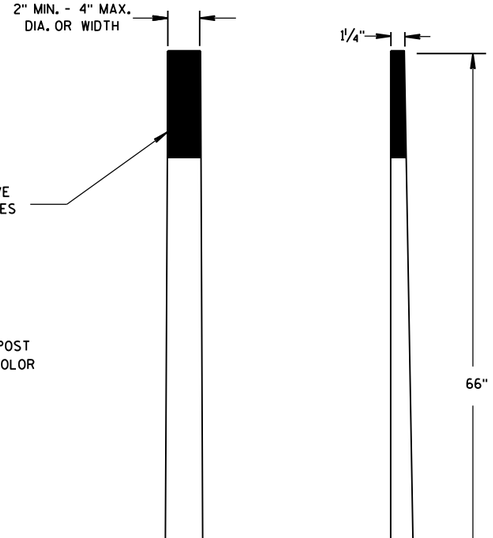
S.D.D. 15 A 3-2a





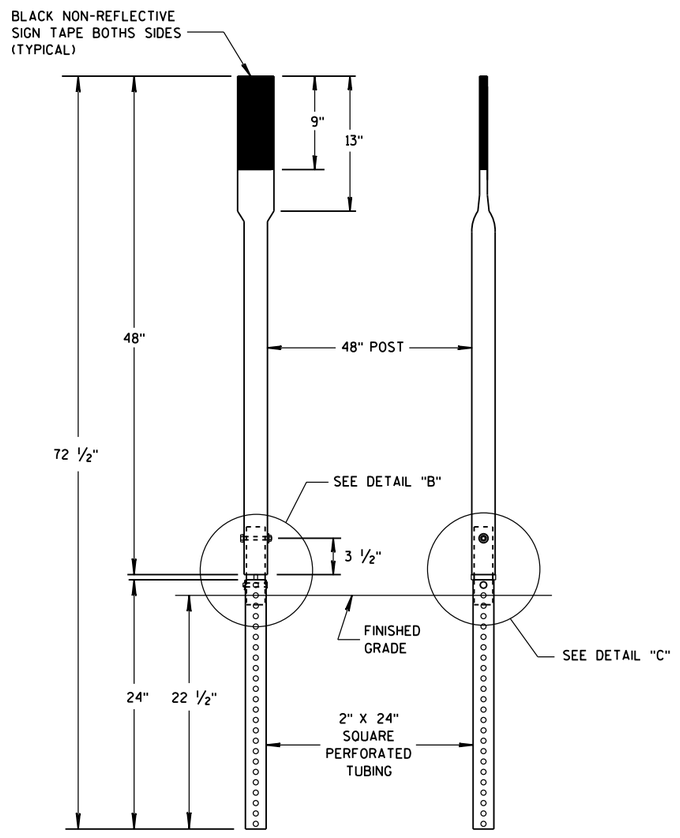
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

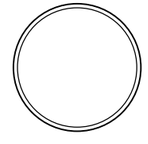
ALTERNATE 2



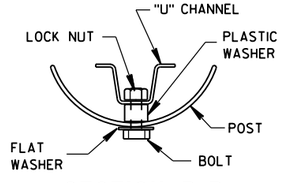
FRONT VIEW SIDE VIEW

ALTERNATE 3

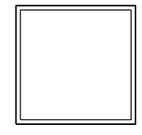
FLEXIBLE MARKER POSTS



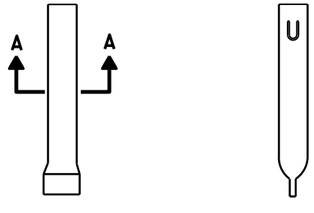
SECTION A-A



SECTION B-B

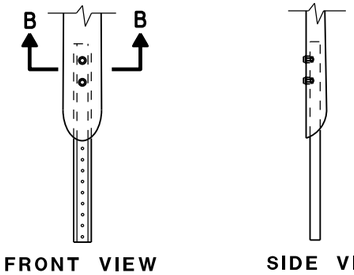


SECTION C-C



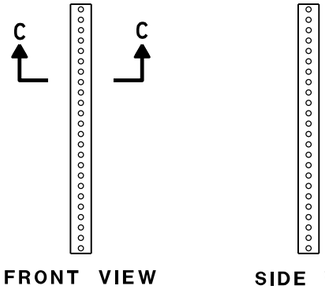
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

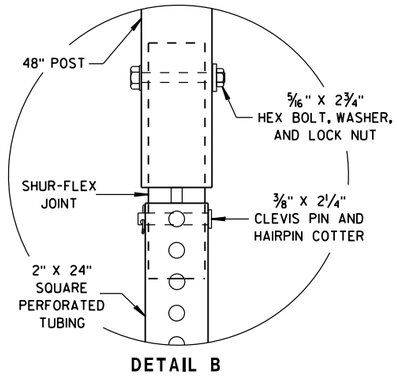
ALTERNATE 2



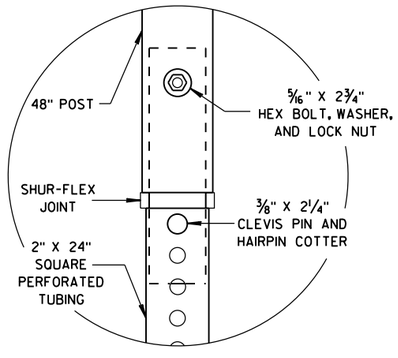
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

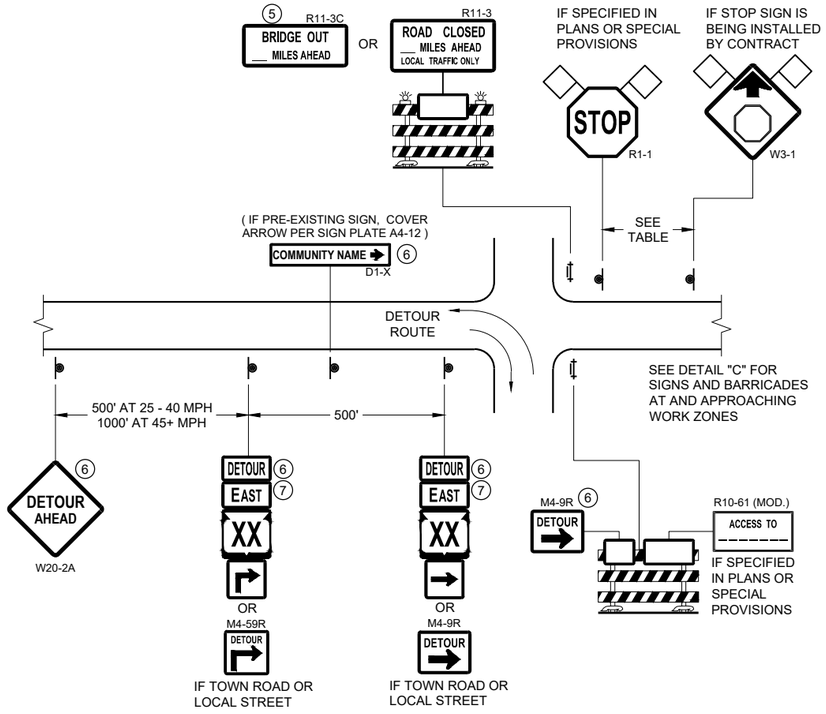
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

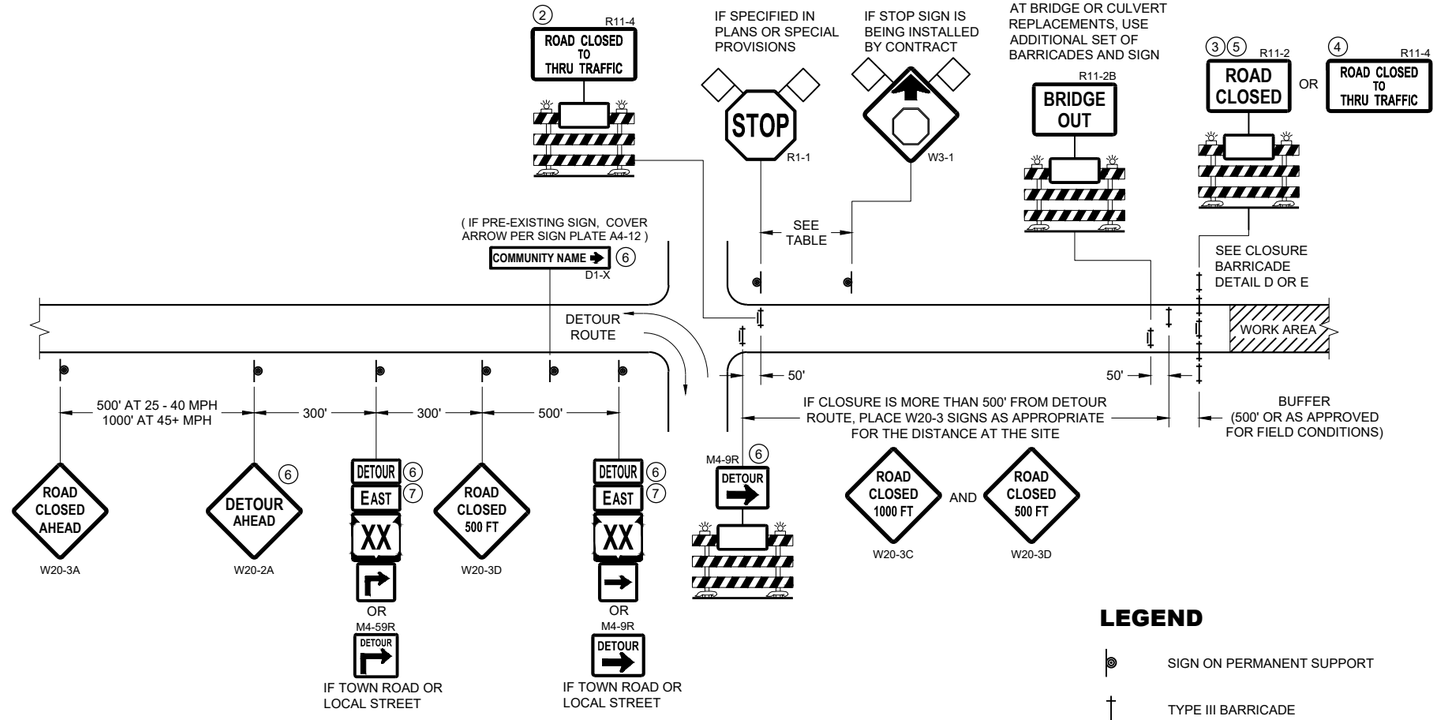
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S.D.D. 15 A 3-2b

6

S.D.D. 15 A 3-2b



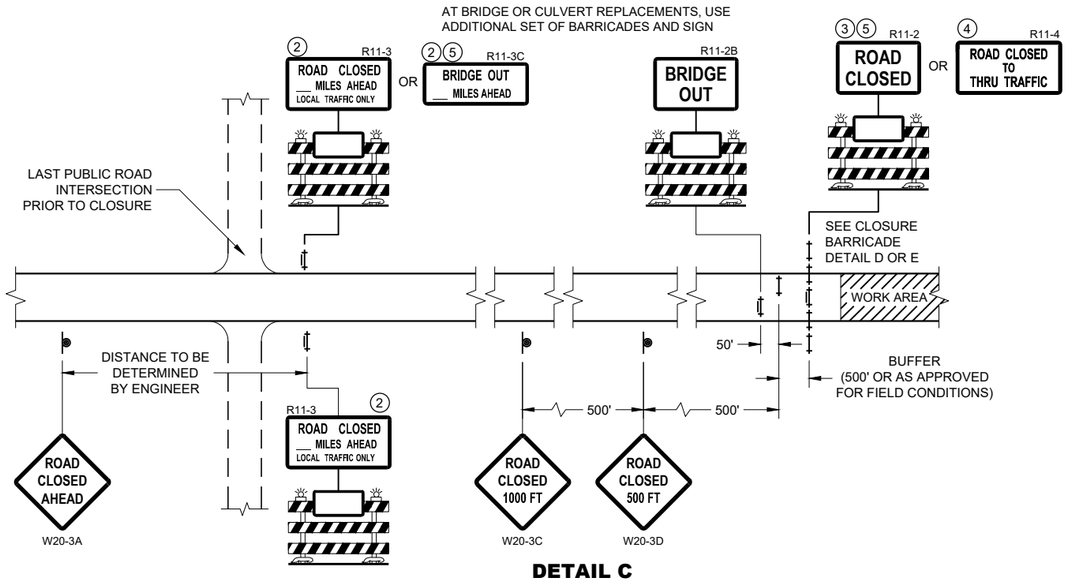


DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

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

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

LEGEND

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

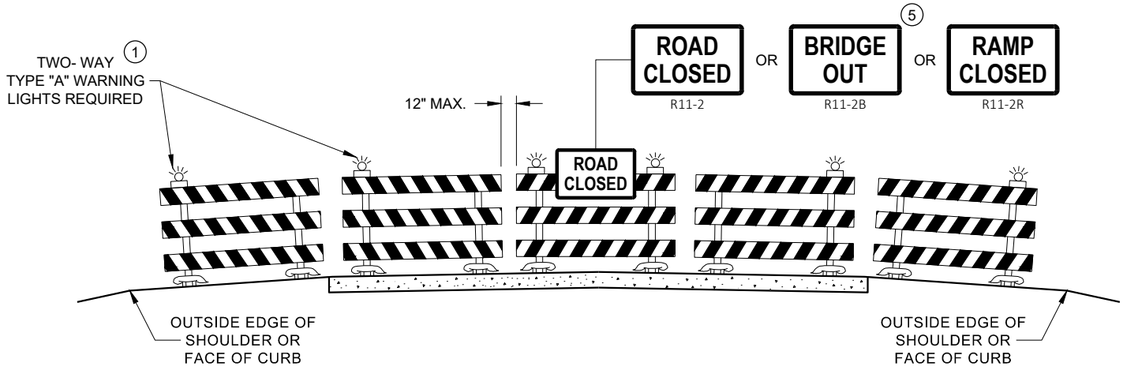
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

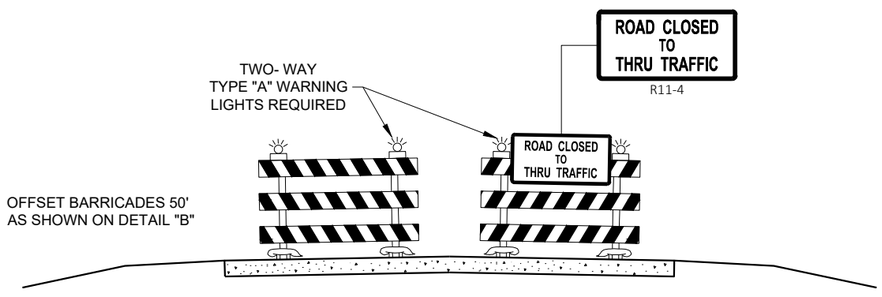
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SDD 15C02 - 08a

SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

6

SDD 15C02 - 08b

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR / EAST — M4 - 8, M3 - X
- XX — M1 - 4; OR XX — M1 - 6; OR COUNTY X — M1 - 5A
- M05 - 1; OR M06 - 1; OR M06 - 1

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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

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

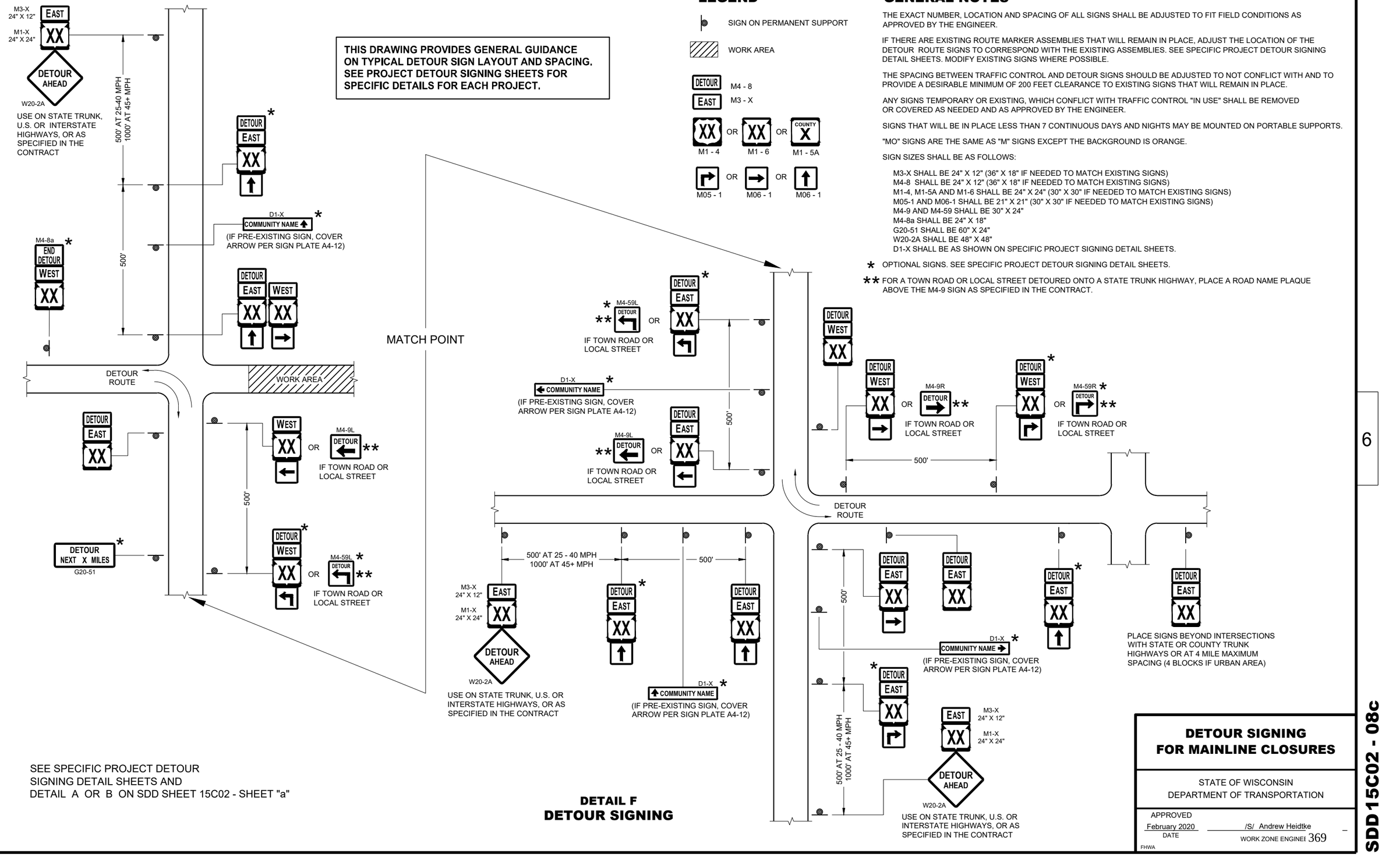
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

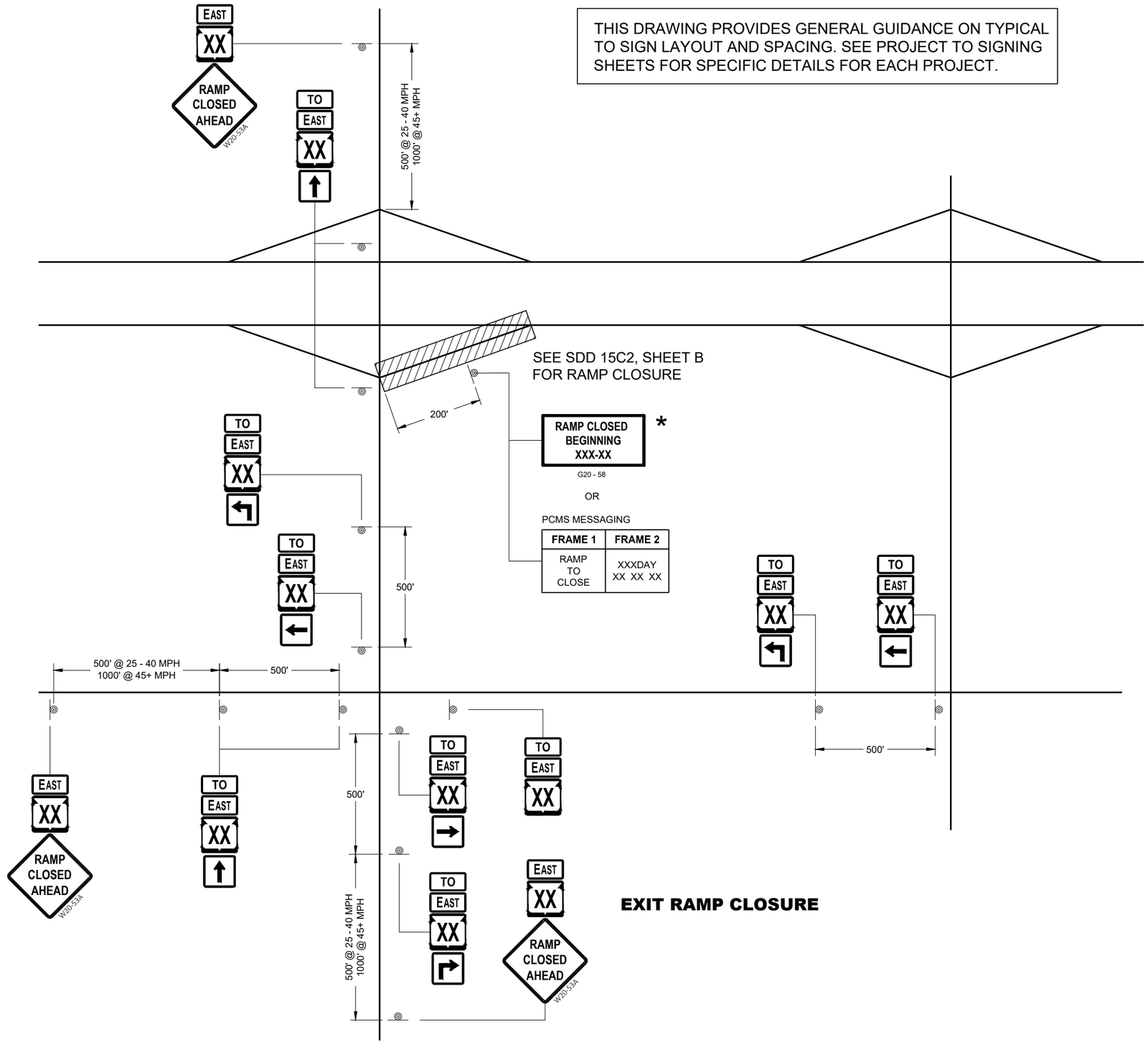
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15C02 - 08c

SDD 15C02 - 08c

6



EXIT RAMP CLOSURE

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

LEGEND

SIGN ON PERMANENT SUPPORT

TO EAST — MO4 - 5, M3 - X

XX M1 - 6 OR XX M1 - 4 OR INTERSTATE XX M1 - 1

M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

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

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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

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

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOW:
- M3 - X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 1, M1 - 4, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).
- W20 - 53A SHALL BE 48" X 48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

ON RAMP LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

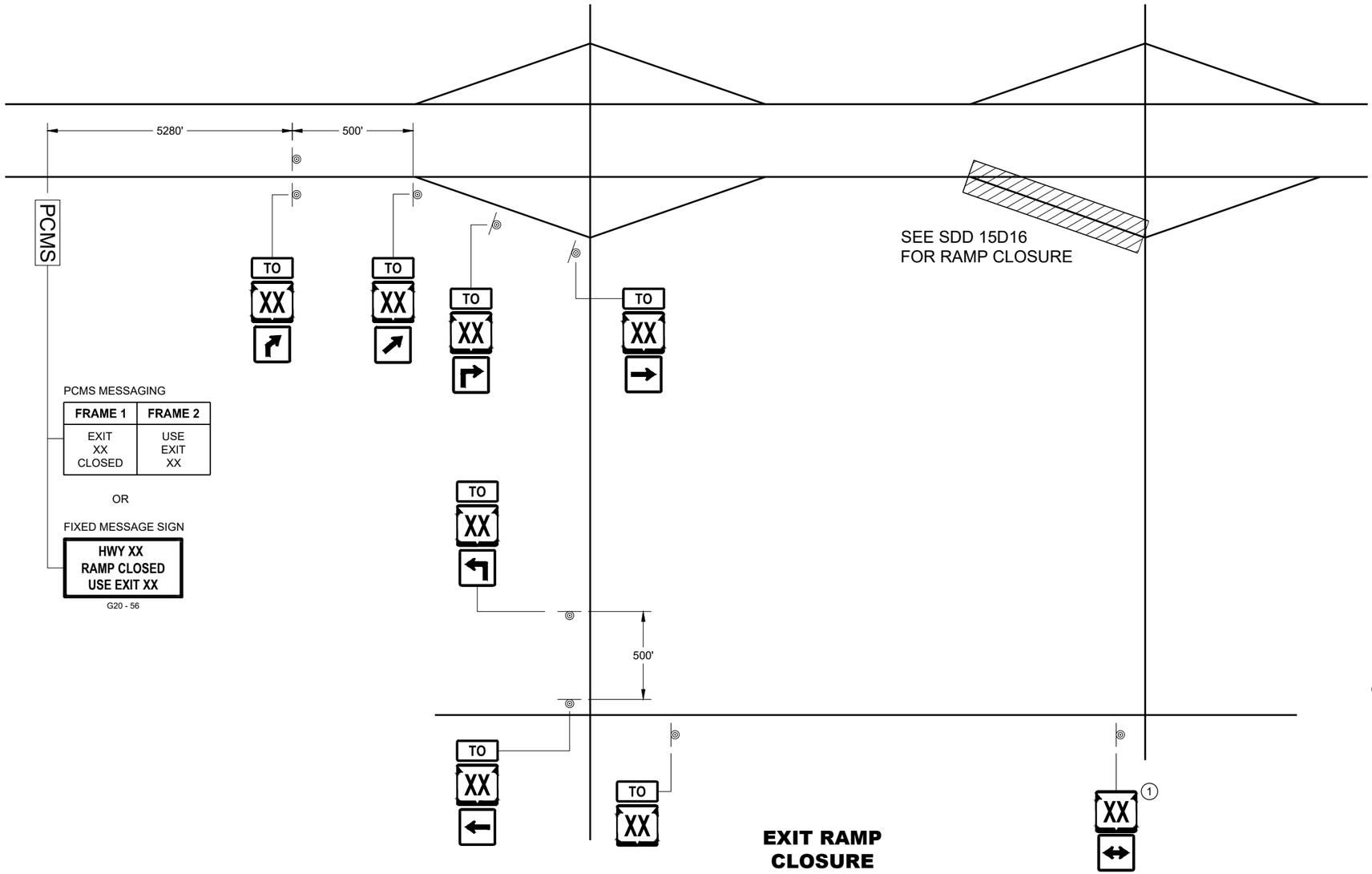
APPROVED
February 2020 DATE
/S/ Andrew Heidtke WORK ZONE ENGINEER

FHWA

6

SDD 15C02 - 08d

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL "TO" MO-4 SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.



PCMS MESSAGING

FRAME 1	FRAME 2
EXIT XX CLOSED	USE EXIT XX

OR

FIXED MESSAGE SIGN

HWY XX
RAMP CLOSED
USE EXIT XX

G20 - 56

EXIT RAMP CLOSURE

LEGEND

SIGN ON PERMANENT SUPPORT

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

TO MO4 - 5

XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A

M05 - 1 OR M05 - 2 OR M06 - 1 OR M06 - 2 OR M06 - 4

GENERAL NOTES

SEE SDD 15D16 "TRAFFIC CONTROL, EXIT RAMP CLOSURE" DETAIL FOR TRAFFIC CONTROL AT EXIT RAMP CLOSURE.

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

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE "TO" MO-4 ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND "TO" MO-4 SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOW:
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 4, M1 - 5A, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).

(1) ONLY ADD IF THERE ARE NO EXISTING ROUTE MARKERS FOR THE INTERSECTING ROADWAY.

OFF RAMP LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 DATE
/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA

6

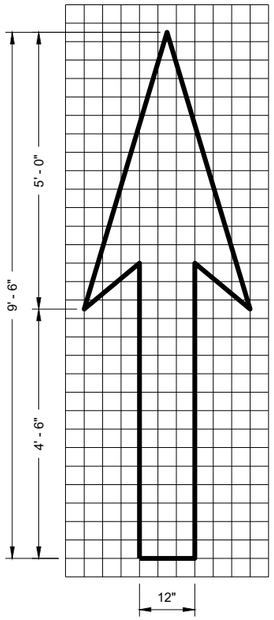
SDD 15C02 - 08e

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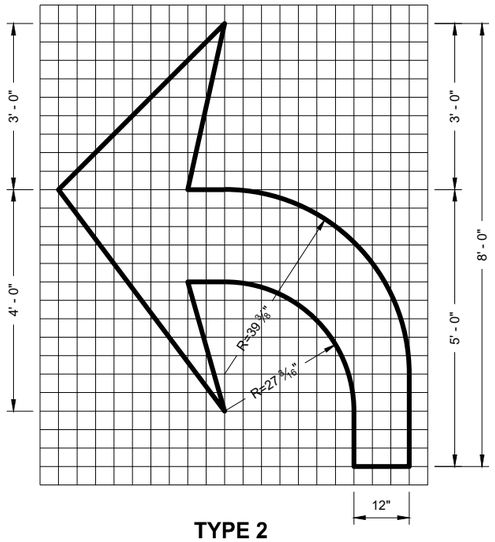
SDD 15C02 - 08e

GENERAL NOTES

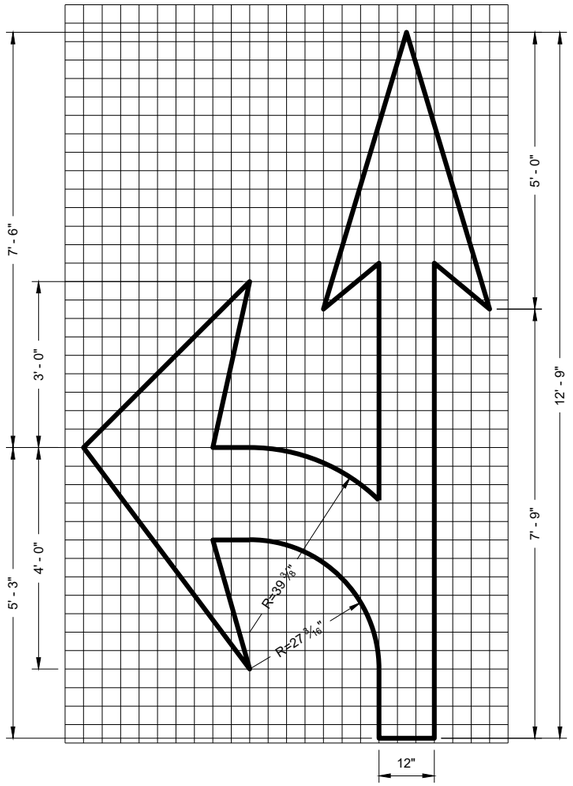
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



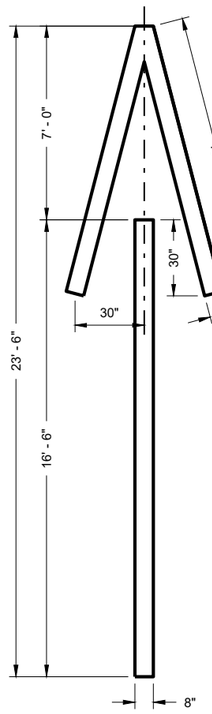
TYPE 1



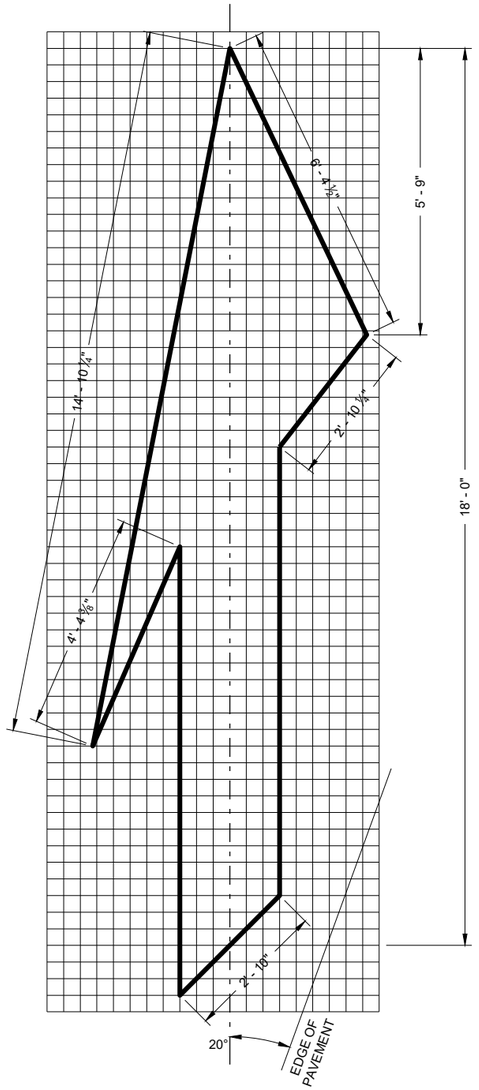
TYPE 2



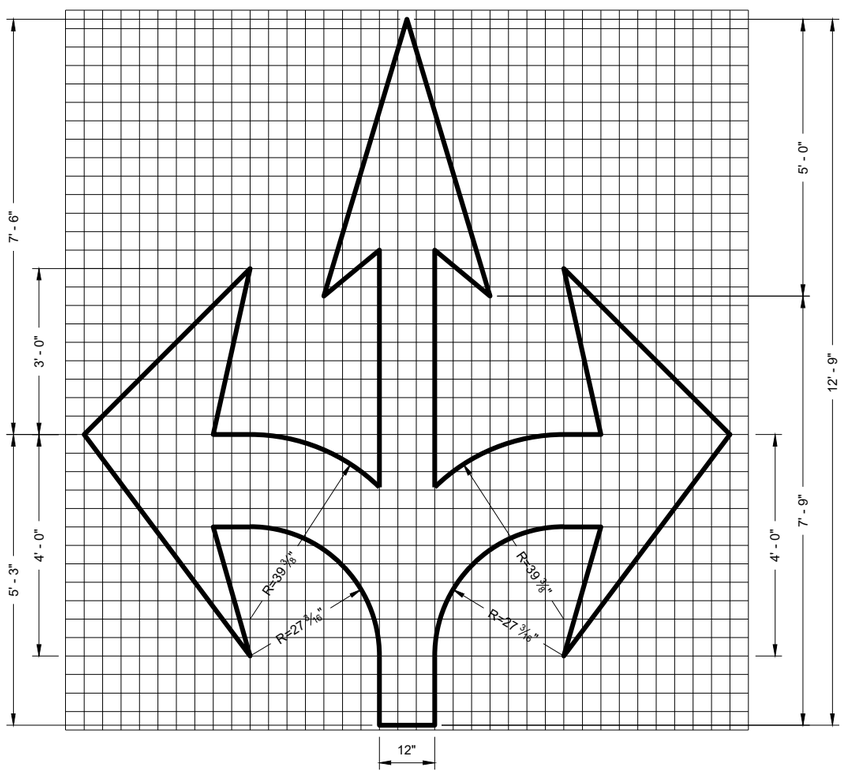
TYPE 3



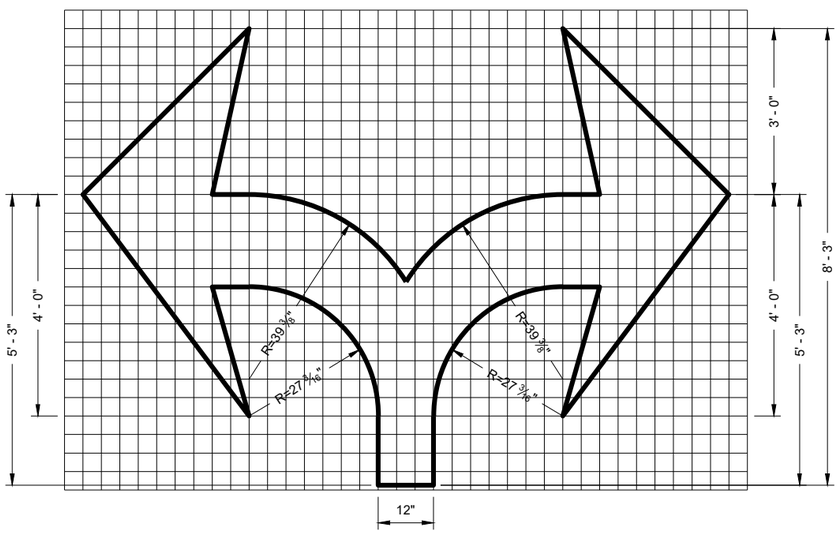
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

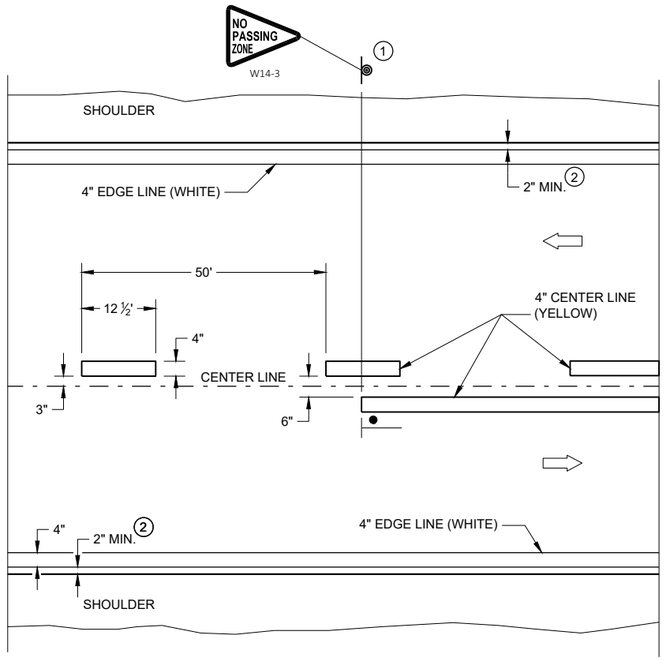
FHWA

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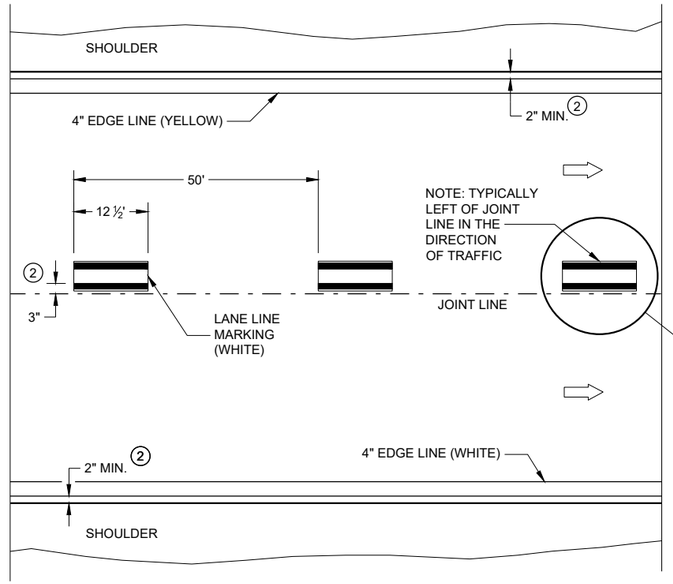
SDD 15C07 - 15c

6

SDD 15C07 - 15c

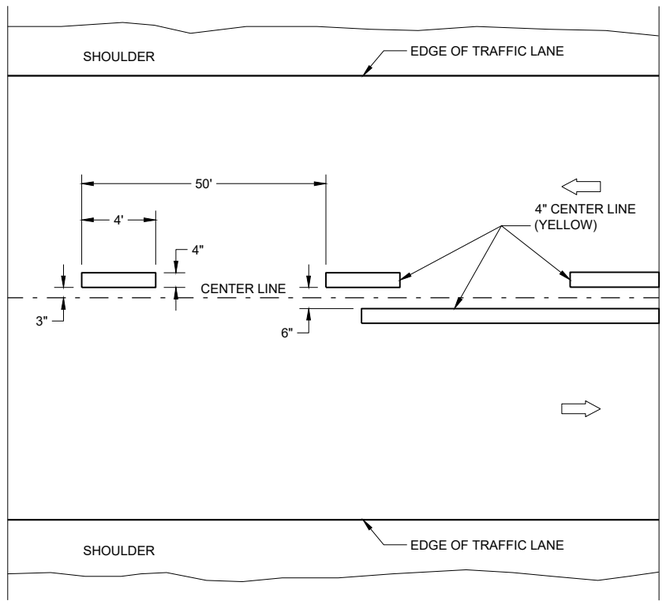


TWO WAY TRAFFIC

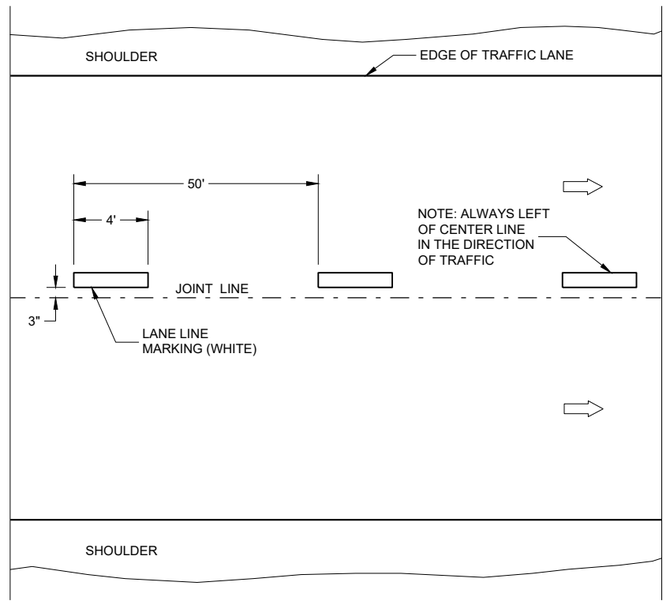


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

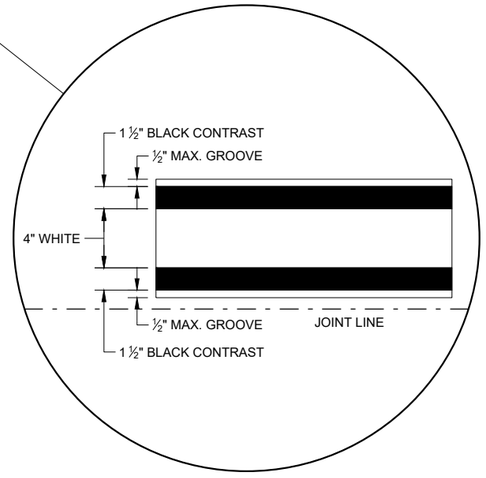
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Matthew Rauch
STATEWIDE SIGNING AND M ENGINEER

FHWA

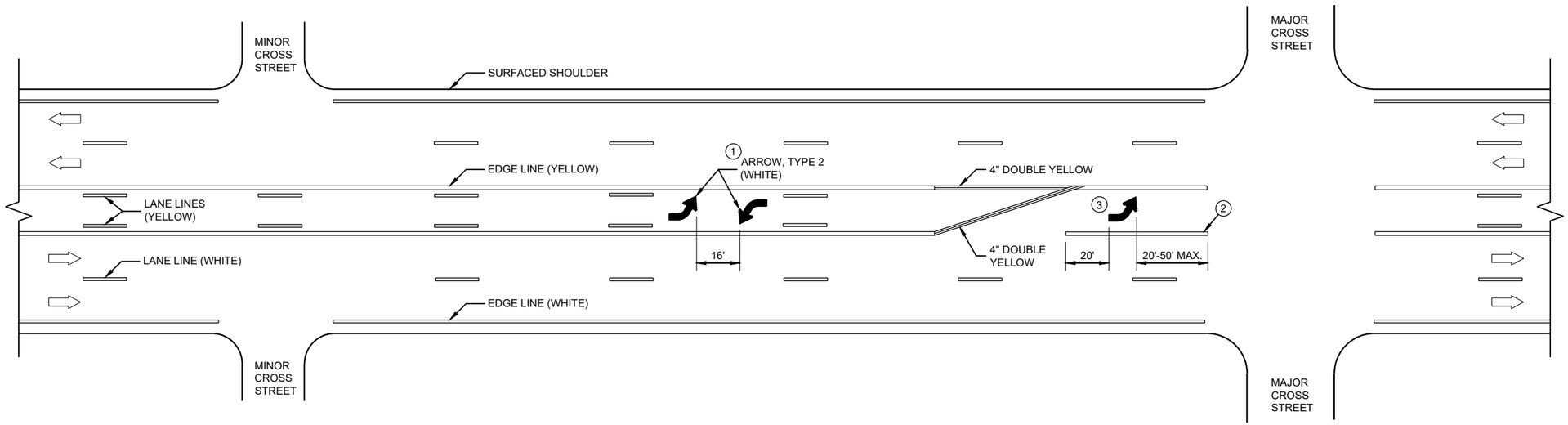
SDD 15C08 - 20a

SDD 15C08 - 20a

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

6

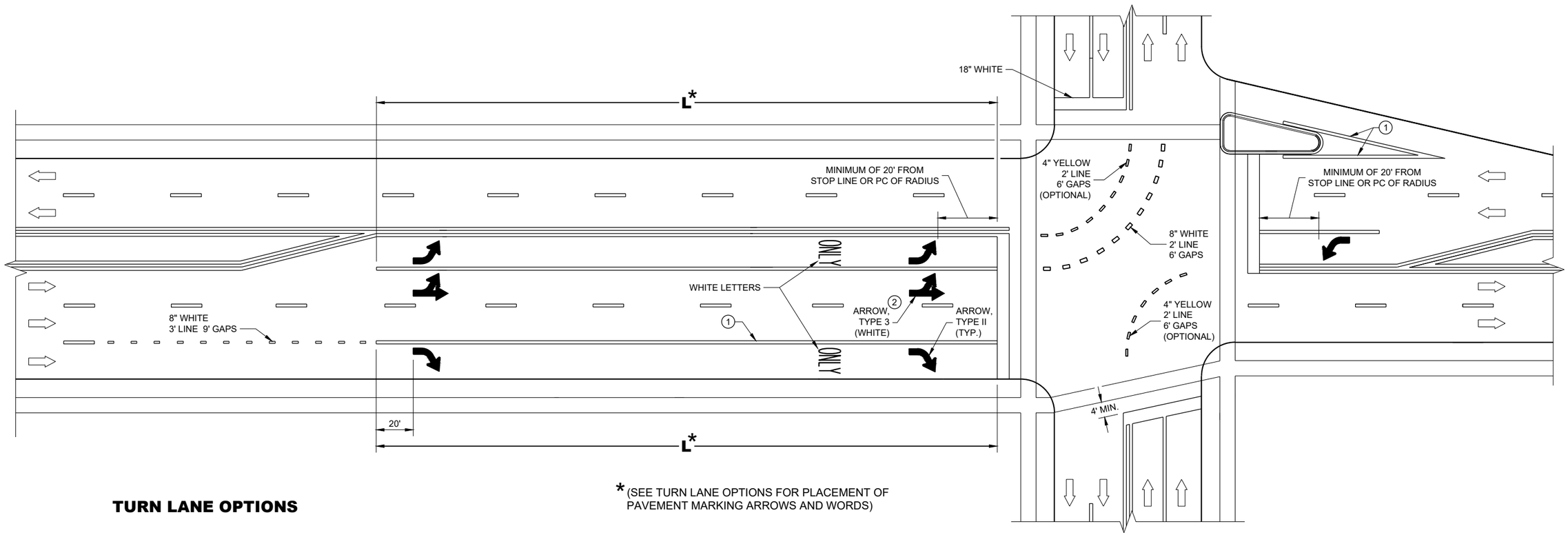
SDD 15C08 - 20b

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

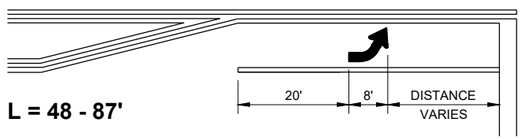
SDD 15C08 - 20b



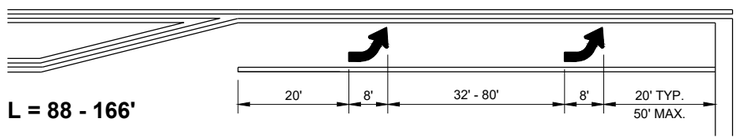
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

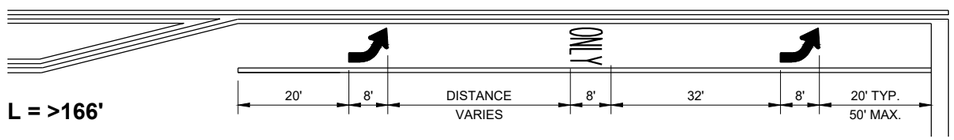
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

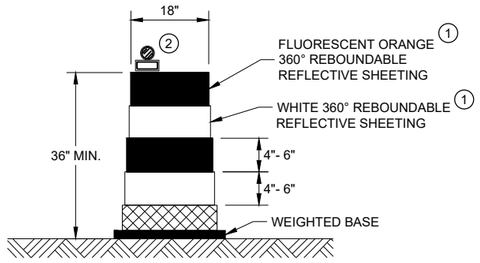
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

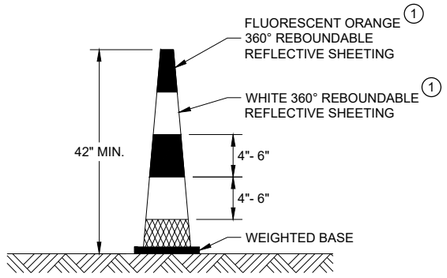
SDD 15C08 - 20c

GENERAL NOTES

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

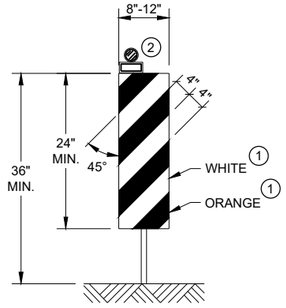


DRUM



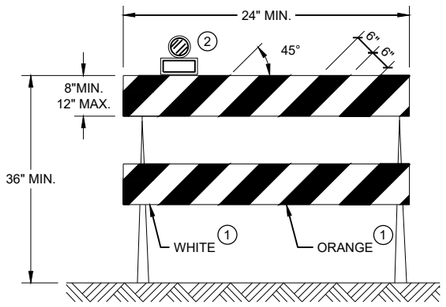
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



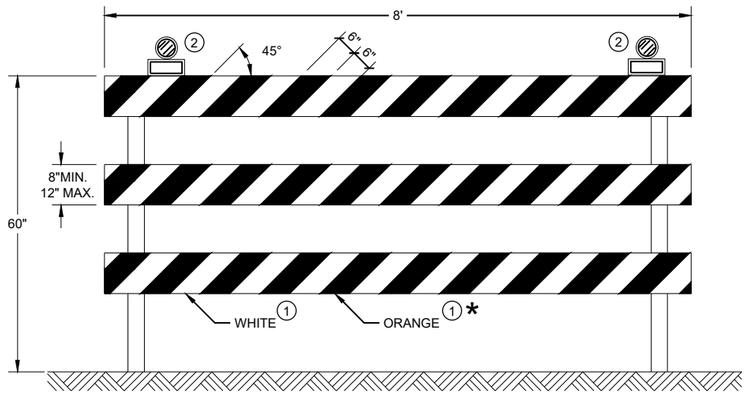
VERTICAL PANEL

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



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15C11 - 08b

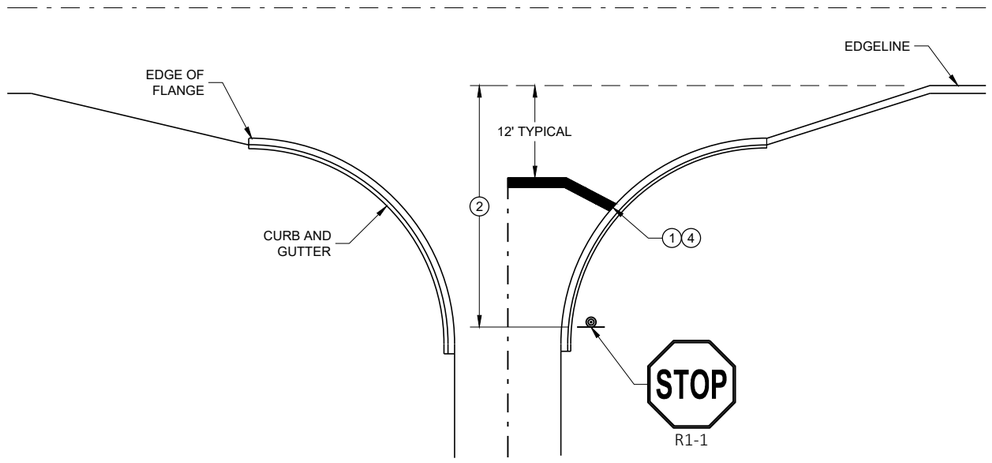
6

SDD 15C11 - 08b

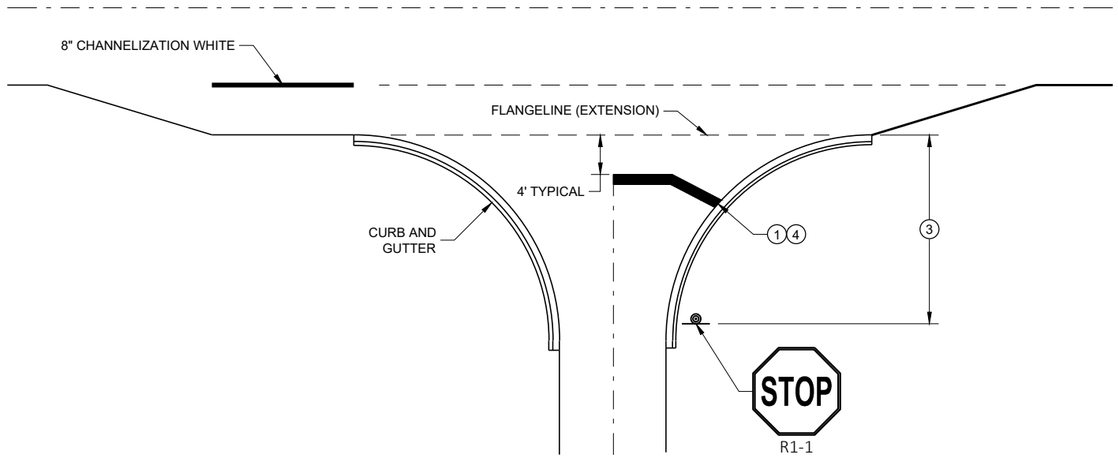
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

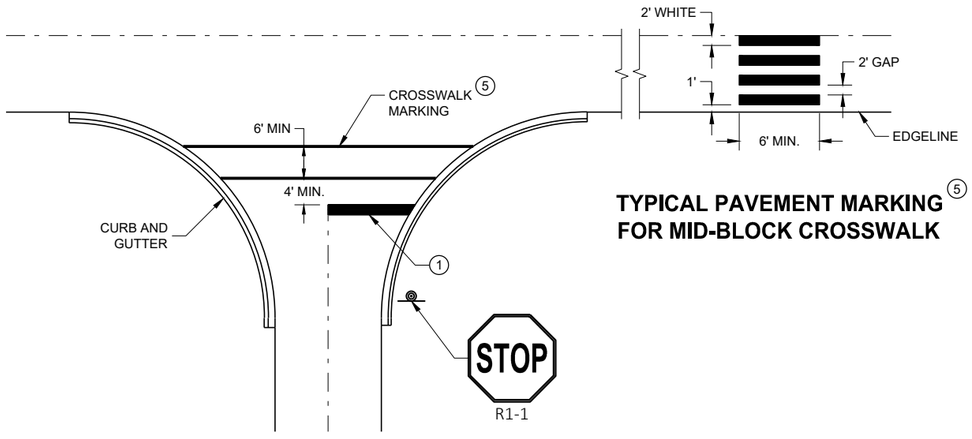
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

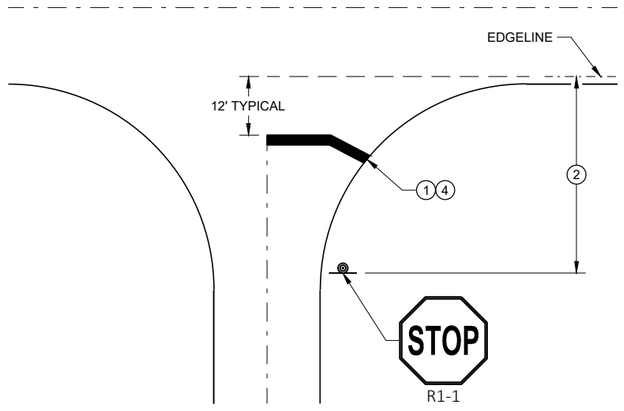


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

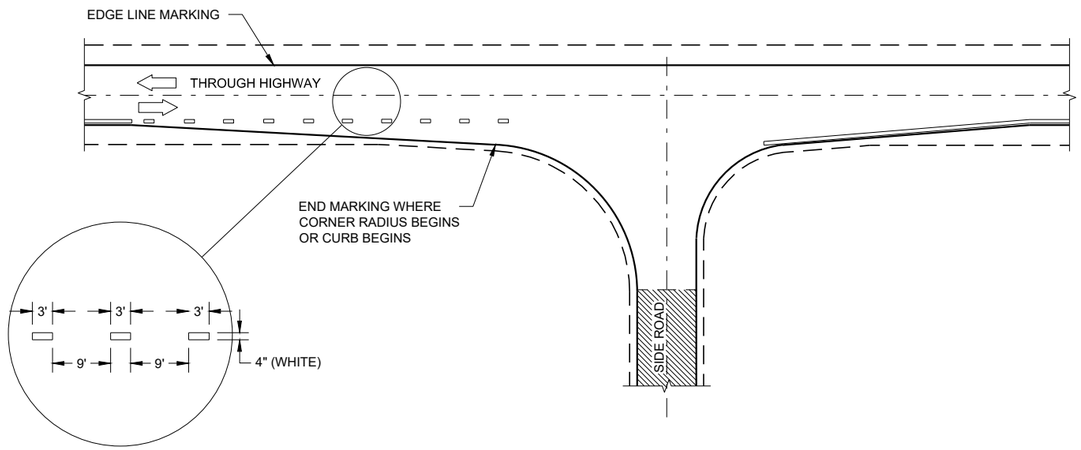
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

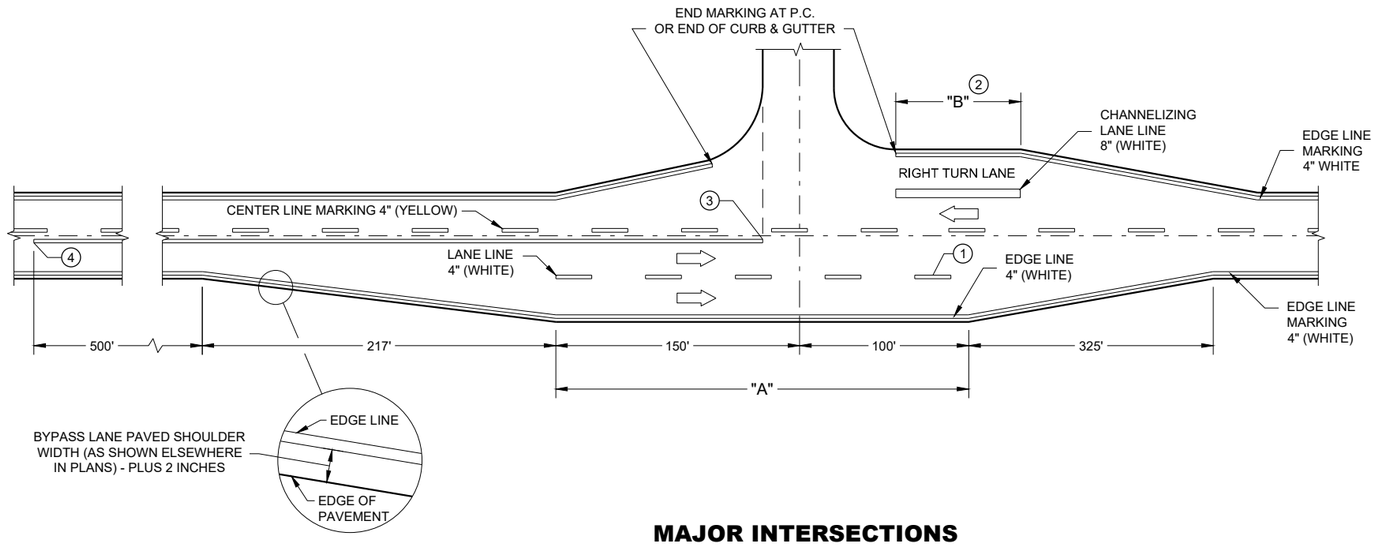
/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

6
SDD 15C33 - 04



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

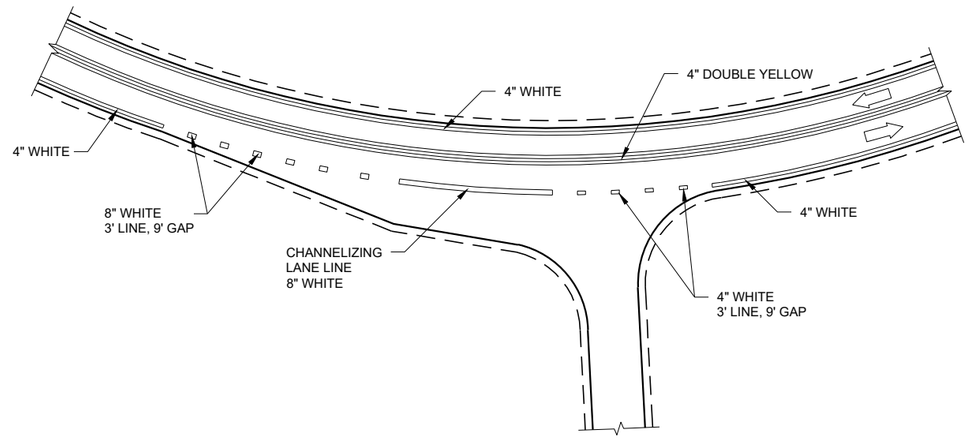
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C35 - 04a

6

SDD 15C35 - 04a

GENERAL NOTES

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

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

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

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

(2) IF NEEDED. USE ONLY IF DESIGN SPEED IS 10 MPH LESS THAN POSTED SPEED.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- REMOVING PAVEMENT MARKING
- CONCRETE BARRIER TEMPORARY PRECAST
- DIRECTION OF TRAFFIC
- WORK AREA



OR





R2-1
48"X60"

OR



R2-1
48"X60"

IF THE REGULATORY SPEED HAS BEEN REDUCED, A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES.

LOCATED 400 FEET BEYOND THE W20- 5G SIGN.

SEE SDD 15D12b FOR SIGN PLACEMENT.

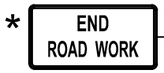
(BLACK AND WHITE)

LOCATED 700 FEET BEYOND W03-5 SIGN

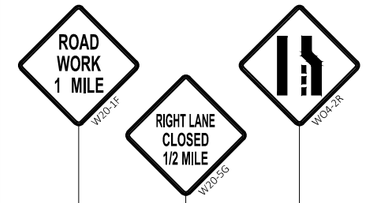


WO13-1
36"X36"

* INCLUDE RESUME SPEED LIMIT SIGN A MINIMUM OF 200 FEET (500 FEET DESIRABLE) AFTER END ROAD WORK SIGNS.



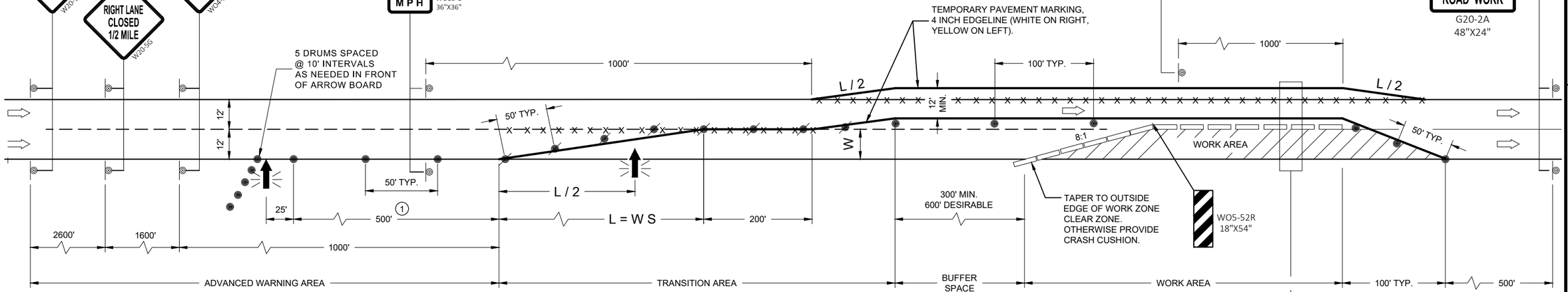
G20-2A
48"X24"



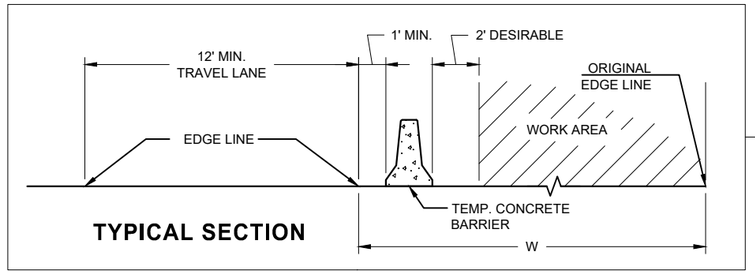




WO13-1
36"X36"



L, TAPER LENGTH (MPH)												
SPEED (MPH)	W, LATERAL OFFSET (FT)											
	1	2	3	4	5	6	7	8	9	10	11	12
45	45	90	135	180	225	270	315	360	405	450	495	540
50	50	100	150	200	250	300	350	400	450	500	550	600
55	55	110	165	220	275	330	385	440	495	550	605	660
60	60	120	180	240	300	360	420	480	540	600	660	720
65	65	130	195	260	325	390	455	520	585	650	715	780
70	70	140	210	280	350	420	490	560	630	700	770	840



TYPICAL SECTION

TRAFFIC CONTROL LANE CLOSURE, SPEEDS GREATER THAN 40 MPH WITH BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINE

FHWA

SDD 15D03-05

SDD 15D03-05

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

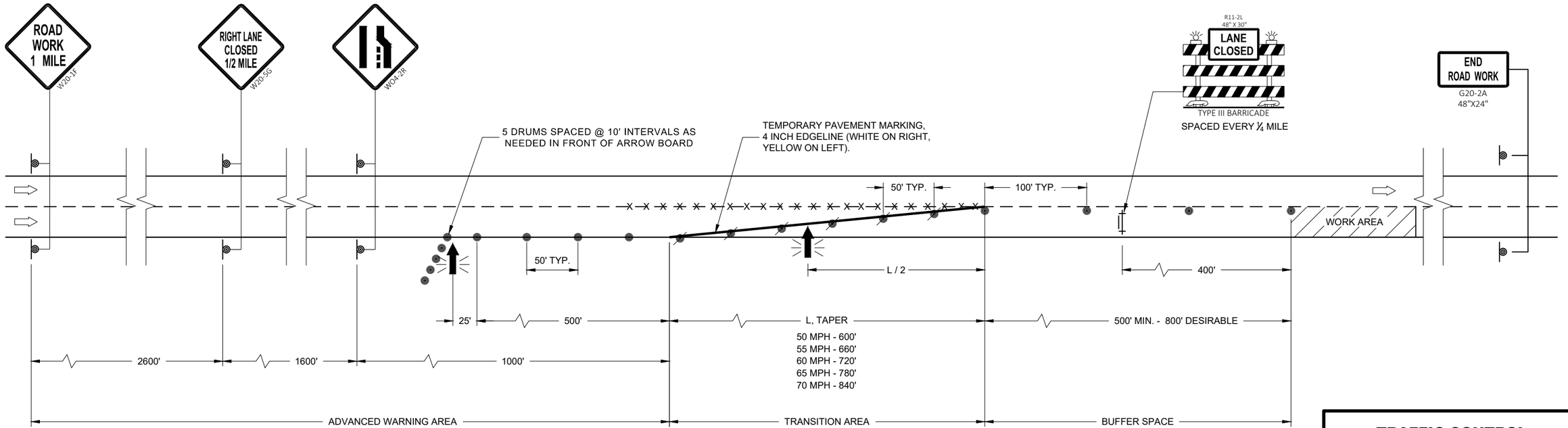
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D12 - 09a

6

SDD 15D12 - 09a

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

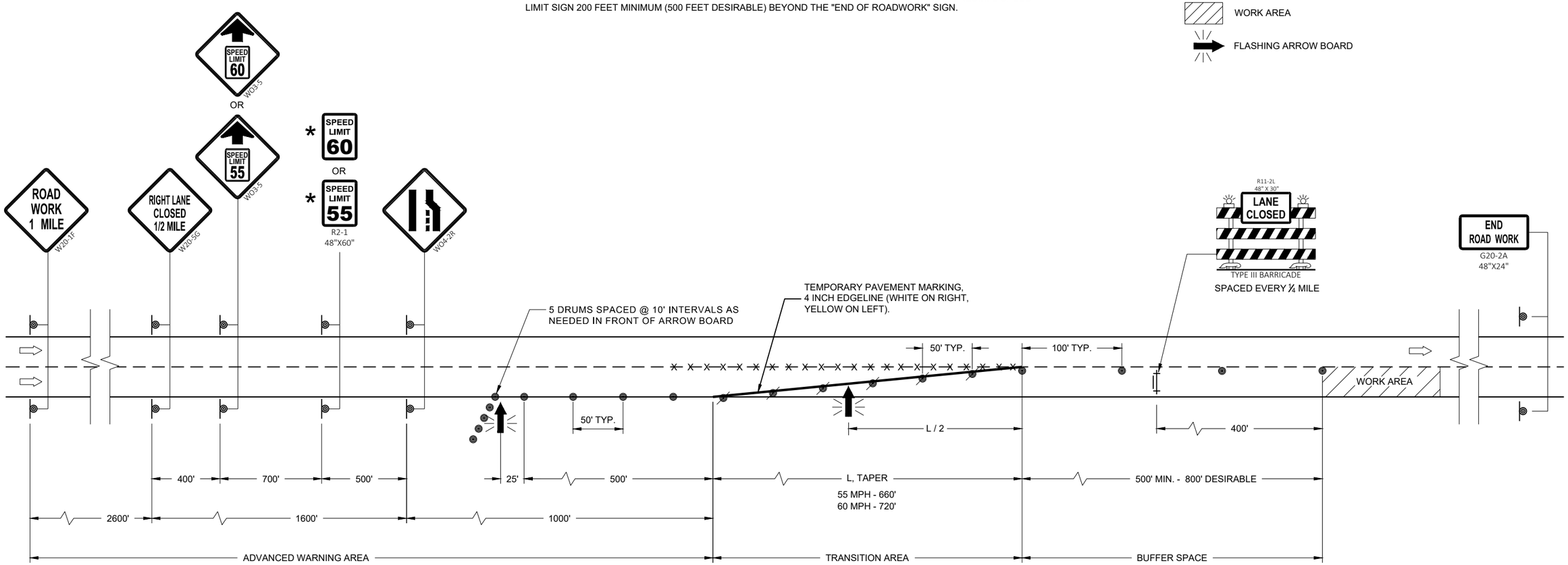
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES. INCLUDE A RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIRABLE) BEYOND THE "END OF ROADWORK" SIGN.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

SDD 15D12 - 09b

6
SDD 15D12 - 09b

LEGEND

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

TYPE III BARRICADE WITH ATTACHED SIGN

DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

THE SPACING BETWEEN 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" X 48" UNLESS OTHERWISE NOTED.

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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.

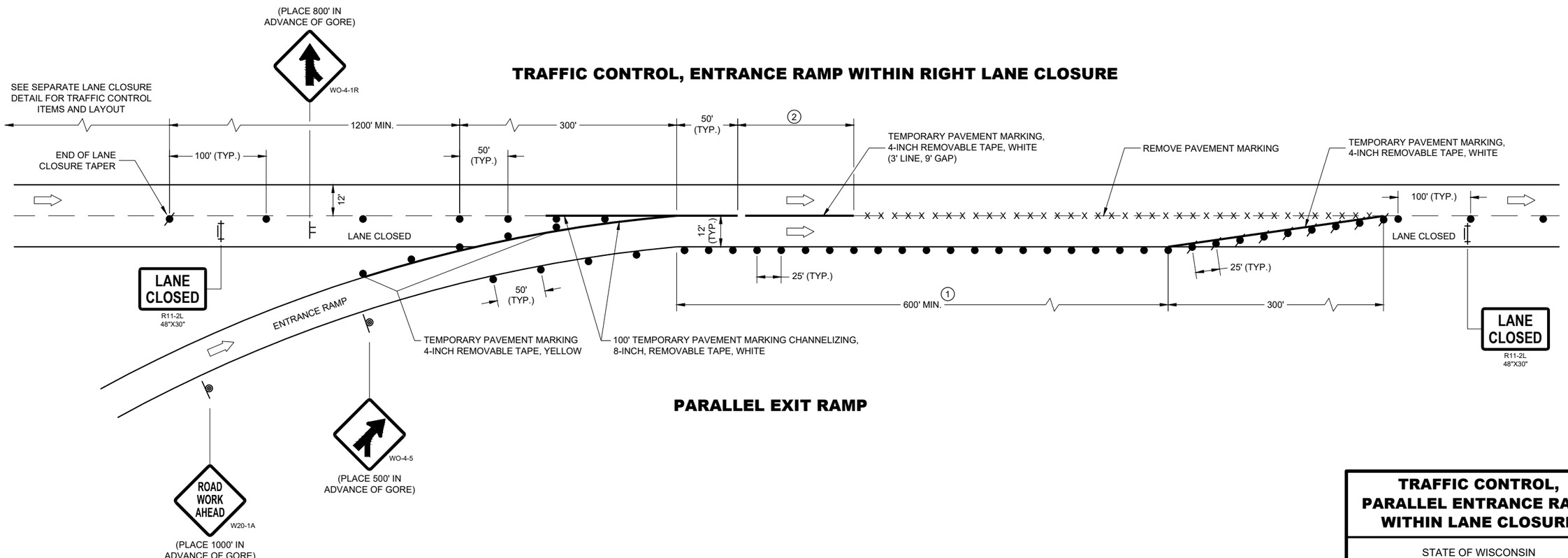
REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) EXTEND THE LENGTH OF THE MERGE ARE IF THE ENTERING (DESIGN) SPEED IS LESS THAN 50MPH OR IF THE MAINLINE GRADE EXCEEDS ±2.2%.

(2) END TEMPORARY MARKING AT ½ THE LENGTH OF FULL WIDTH OF THE ACCELERATION LANE.

TRAFFIC CONTROL, ENTRANCE RAMP WITHIN RIGHT LANE CLOSURE



PARALLEL EXIT RAMP

TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D15 - 05a

6

SDD 15D15 - 05a

LEGEND

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

TYPE III BARRICADE WITH ATTACHED SIGN

DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

THE SPACING BETWEEN 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" X 48" UNLESS OTHERWISE NOTED.

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

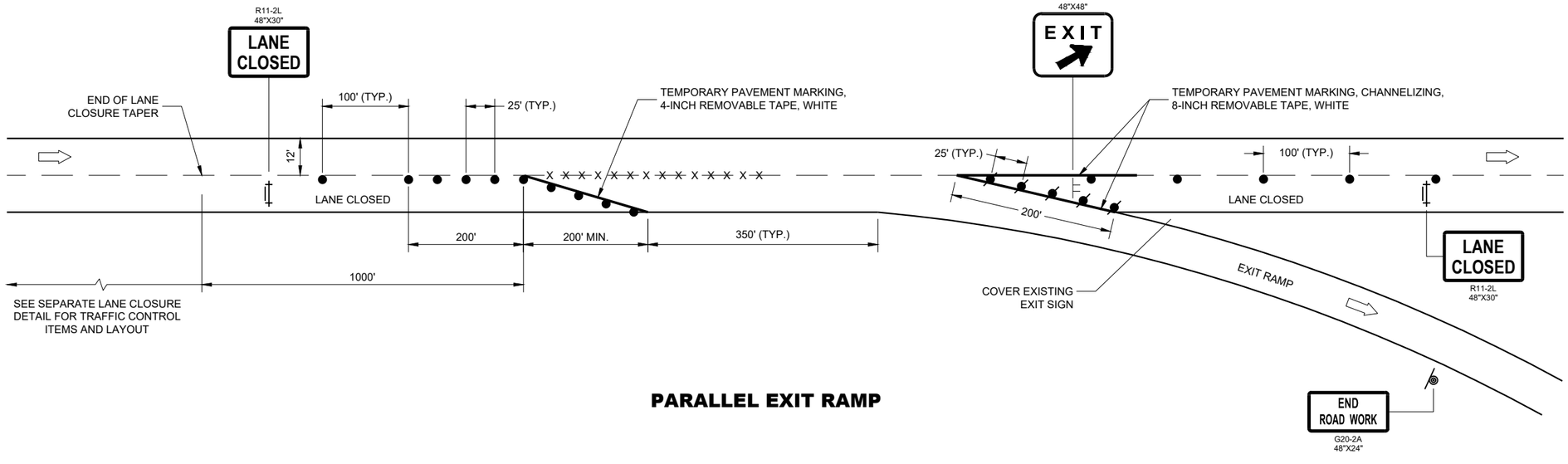
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.



PARALLEL EXIT RAMP

TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D15 - 05e

6

SDD15D15 - 05e

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

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

THE SPACING BETWEEN 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" X 48" UNLESS OTHERWISE NOTED.

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.

PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12 - HOUR DURATION.

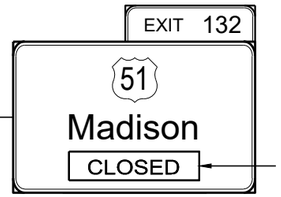
* W20 - 1A AND G20 - 2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

** PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



G20 - 60
108" X 24"

OR



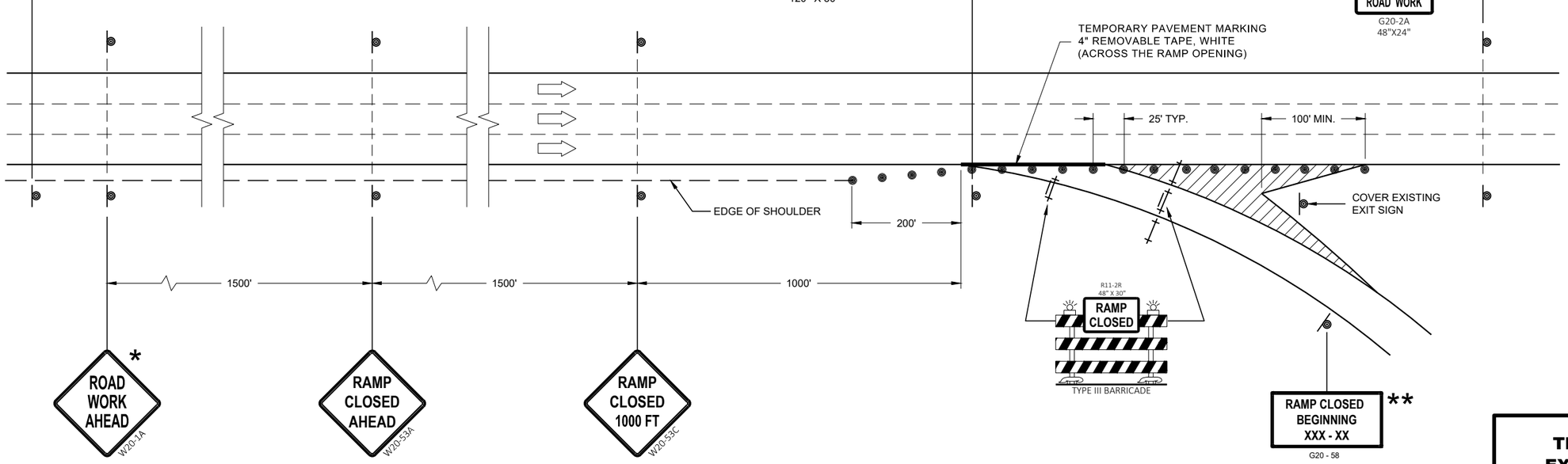
G20 - 60
108" X 24"

PLACE SIGN G20 - 60 OVER MILEAGE ON EXISTING E1 - 1A SIGN



COVER ARROW ON EXISTING E4 - 1 SIGN (COVERING SIGNS TYPE I)

G20 - 61
120 ' X 30"



G20 - 58

OR

PCMS MESSAGING

FRAME 1	FRAME 2
RAMP TO CLOSE	XXXDAY XX XX XX

TRAFFIC CONTROL, EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Andrew Heidtke
ROADWAY STANDARDS DEVE ENGINEER

FHWA

SDD 15D16 - 04

6
SDD 15D16 - 04

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

DUE TO LACK OF SHOULDER/MEDIAN, ARROW BOARD IS PLACED AT THE THE END OF THE TAPER.

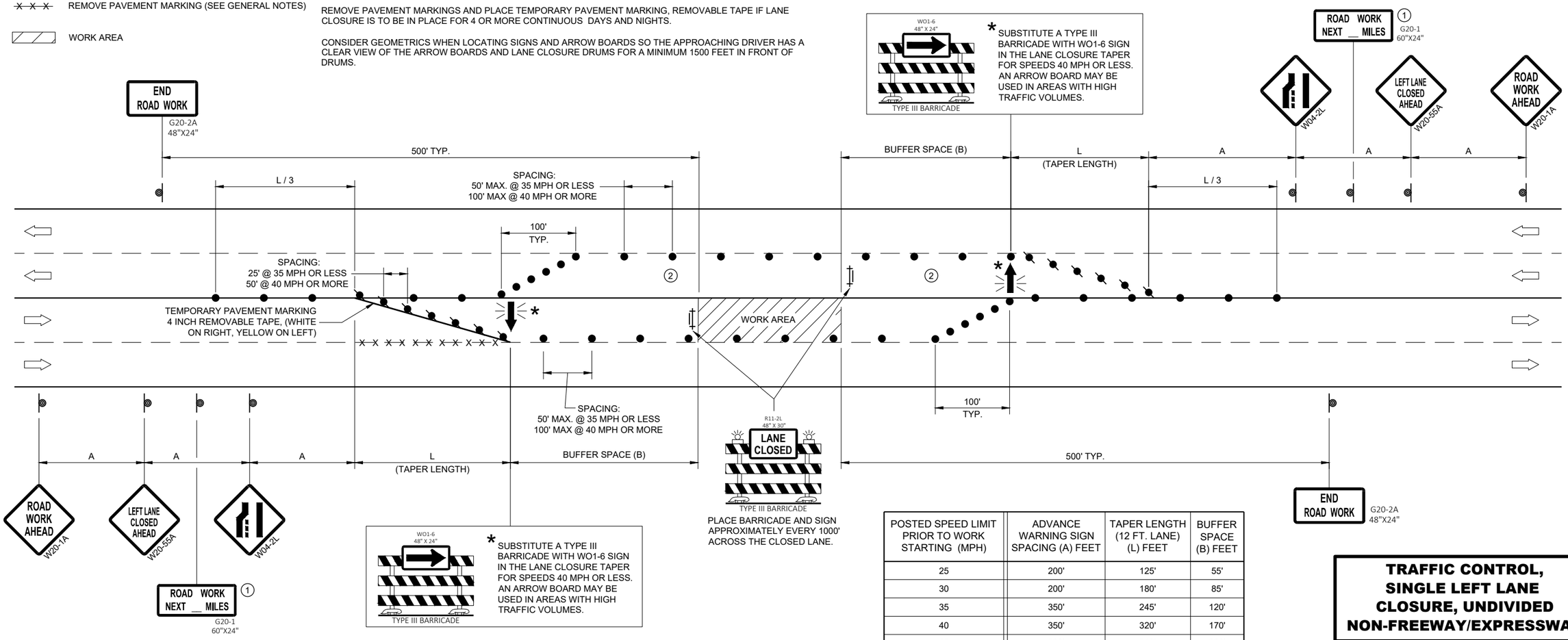
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) LANE MAY BE OPENED WHEN WORKERS ARE NOT PRESENT IN THE WORK AREA.



WO1-6 48" X 24"

TYPE III BARRICADE

* SUBSTITUTE A TYPE III BARRICADE WITH WO1-6 SIGN IN THE LANE CLOSURE TAPER FOR SPEEDS 40 MPH OR LESS. AN ARROW BOARD MAY BE USED IN AREAS WITH HIGH TRAFFIC VOLUMES.

WO1-6 48" X 24"

TYPE III BARRICADE

* SUBSTITUTE A TYPE III BARRICADE WITH WO1-6 SIGN IN THE LANE CLOSURE TAPER FOR SPEEDS 40 MPH OR LESS. AN ARROW BOARD MAY BE USED IN AREAS WITH HIGH TRAFFIC VOLUMES.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'
50	500'	600'	280'
55	500'	660'	335'

TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE T SAFETY ENGINEER
FHWA

SDD 15D20 - 05c

SDD 15D20 - 05c

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

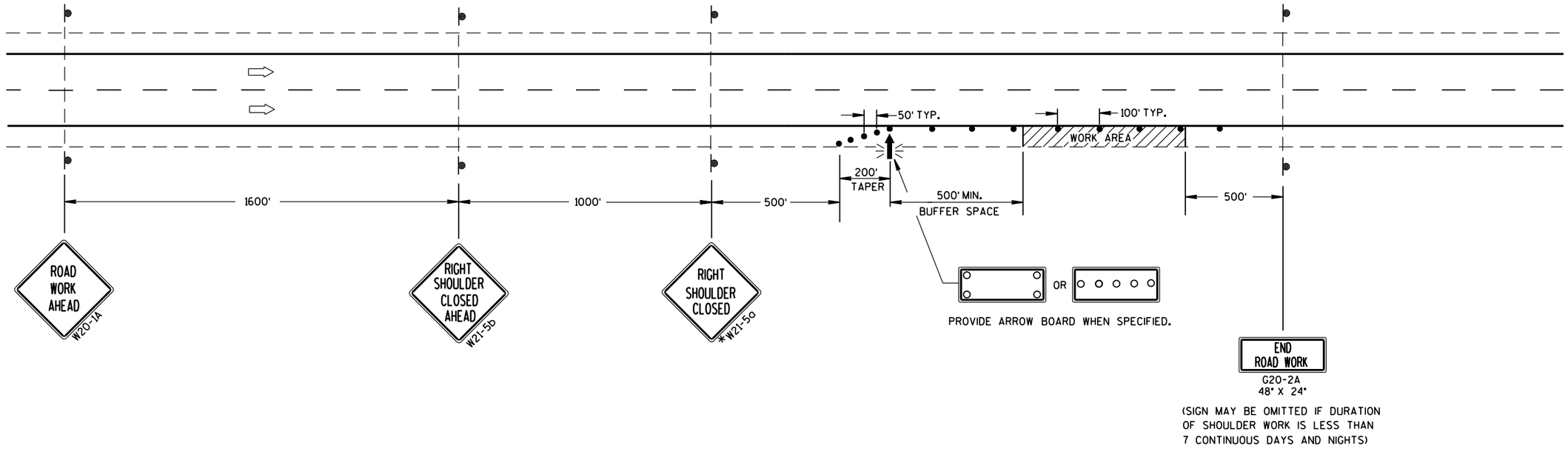
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

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

WHEN A 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.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

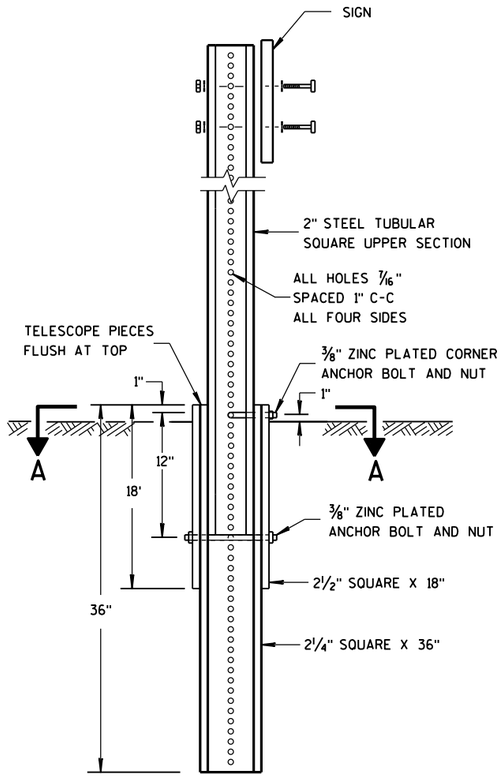
June 2016 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible]IC SAFETY ENGI[illegible]

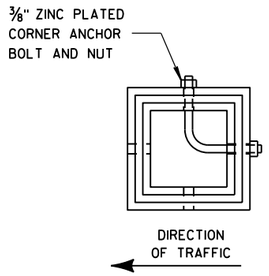
FHWA

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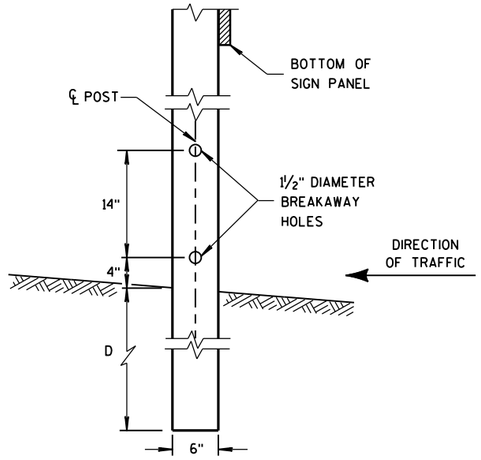
S.D.D. 15 D 27-3



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



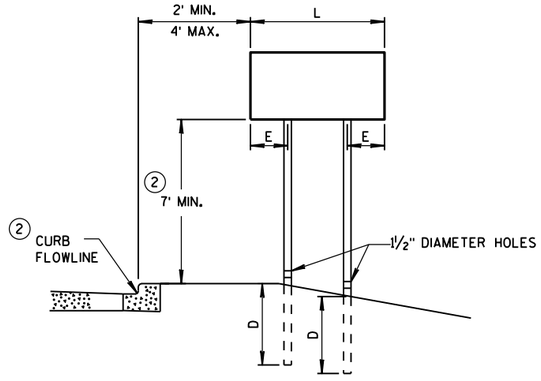
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

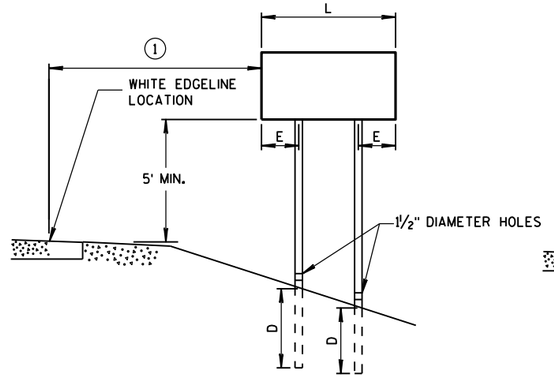
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

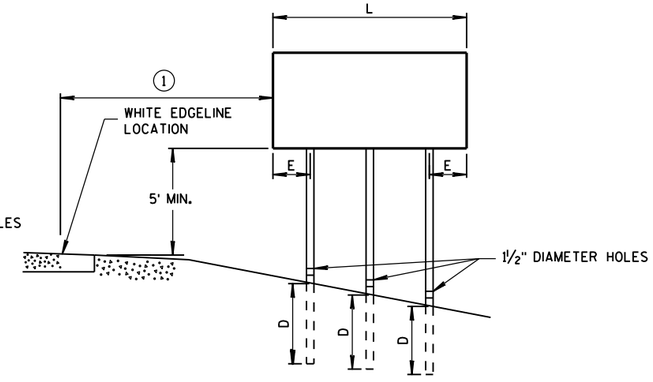
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK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

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

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

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

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

4" X 6" WOOD POST

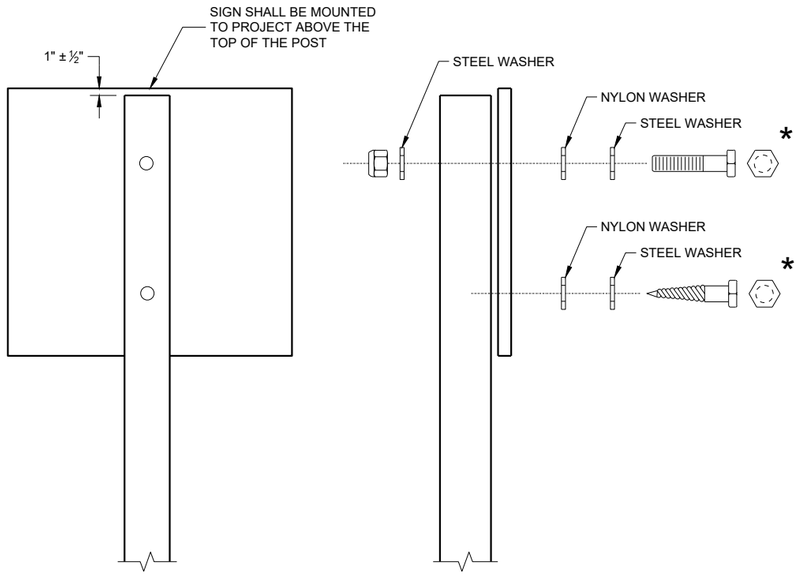
POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 15 D 38-2a



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 POST (4" x 6")
LAG SCREWS - ⅜" x 3"
MACHINE BOLTS - 5/16" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
MACHINE BOLTS - ⅜" x 3 ¼" LENGTH W/NUTS
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
1 ¼" O.D. x ⅜" I.D. x 1/16" STEEL
1 ¼" O.D. x ⅜" I.D. x 0.080 NYLON

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

6

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SDD 15D38 - 02b

SDD 15D38 - 02b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR SHIFTING RIGHT LANE - REVERSE FOR SHIFTING LEFT LANE.

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

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

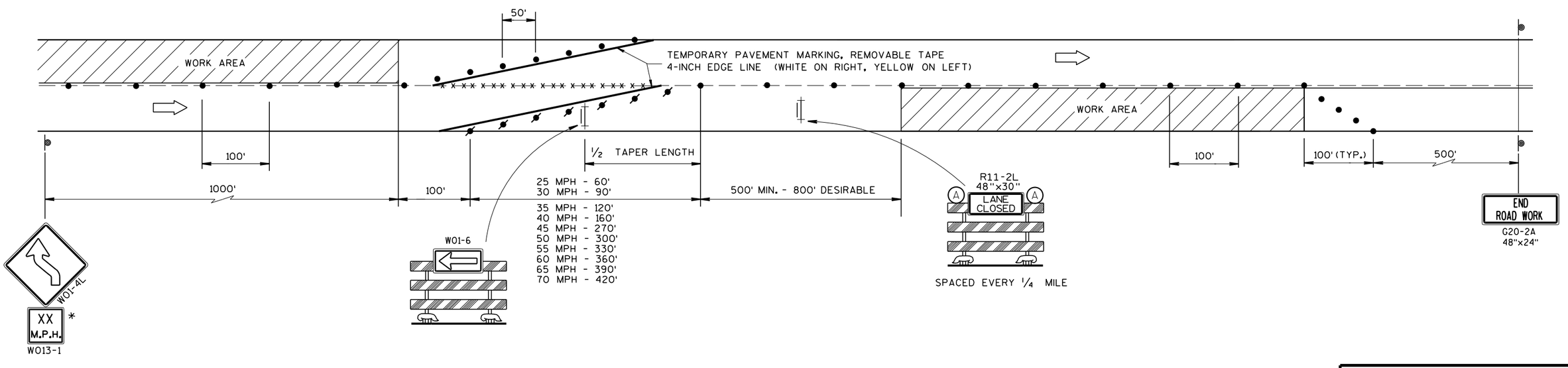
FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.



* USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED

LANE SHIFT MULTI-LANE DIVIDED OR ONE WAY ROAD

TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE WAY ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE
/S/ Andrew I
WORK ZONE E
FHWA

6

S.D.D. 15 D 40-1

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN

GENERAL NOTES

RIGHT CLOSURE SHOWN (LEFT LANE CLOSURE SIMILAR)

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

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS PART OF A DAYTIME ONLY OPERATION.

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

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

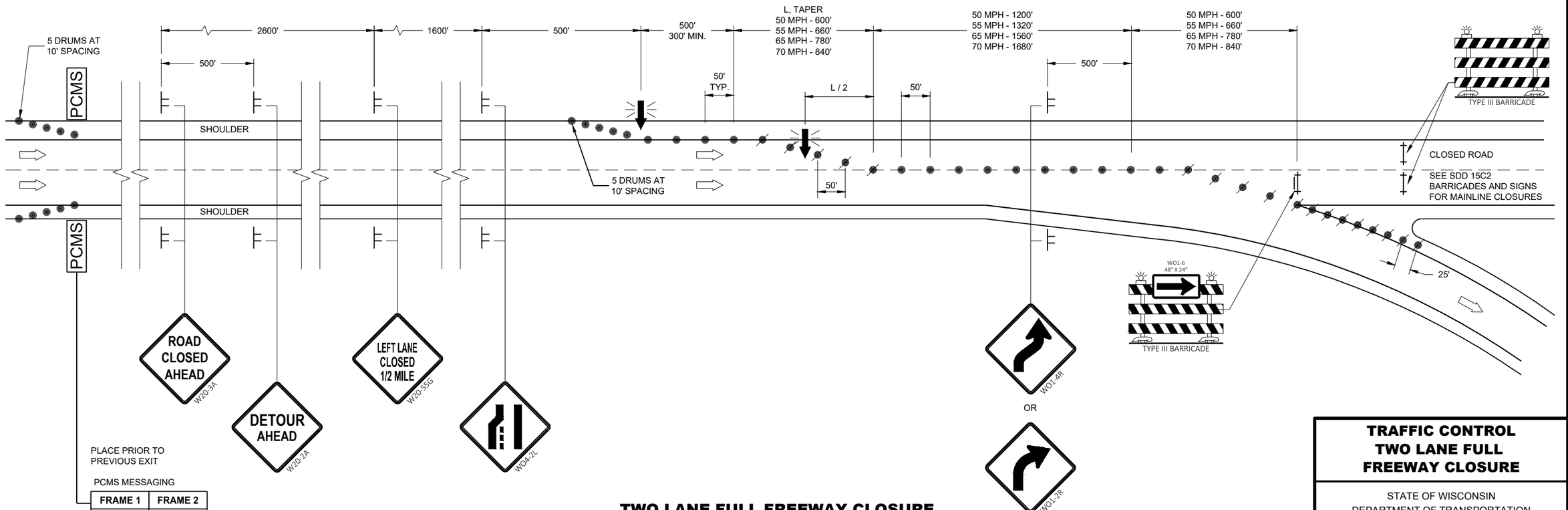
WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROL SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND / OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.

PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1000' ACROSS EACH CLOSED LANE TO HELP REINFORCE THE DRUM LINE.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

REFER TO DETOUR ROUTES FOR TRAFFIC GUIDANCE SIGNING.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.



PLACE PRIOR TO PREVIOUS EXIT

PCMS MESSAGING

FRAME 1	FRAME 2
FREEWAY CLOSED	EXIT AHEAD

TWO LANE FULL FREEWAY CLOSURE

TRAFFIC CONTROL TWO LANE FULL FREEWAY CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

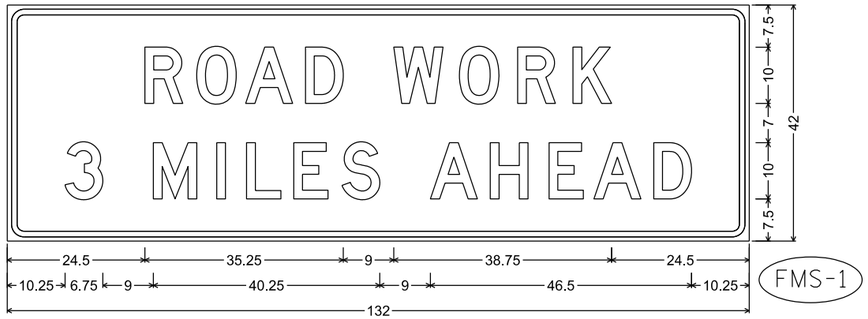
FHWA

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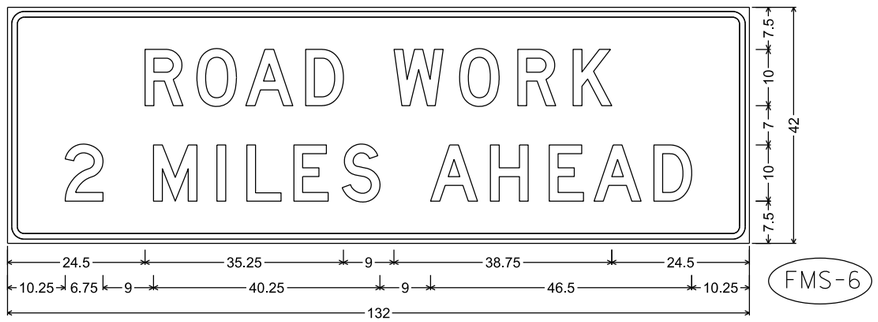
SDD 15D42 - 01

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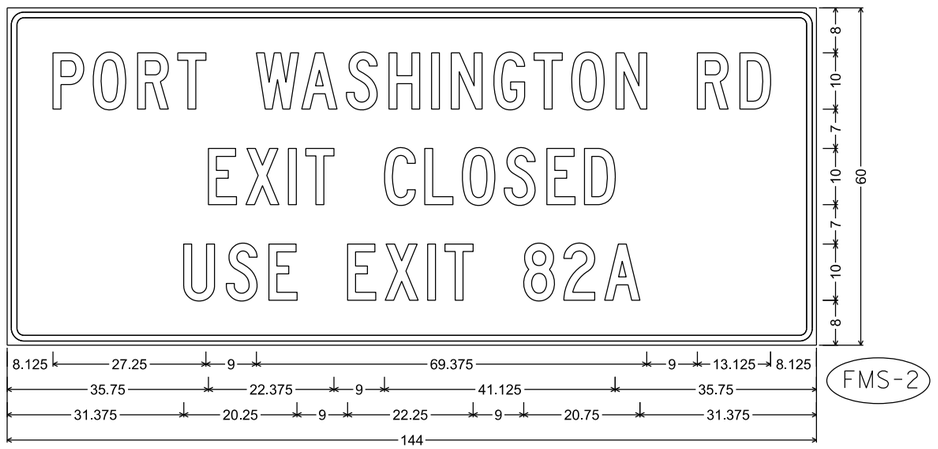
SDD 15D42 - 01



3.000" Radius, 1.000" Border, 0.750" Indent



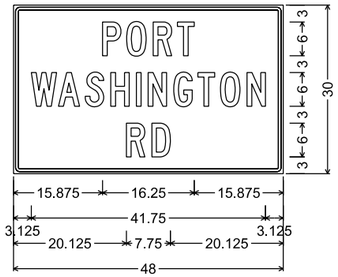
3.000" Radius, 1.000" Border, 0.750" Indent



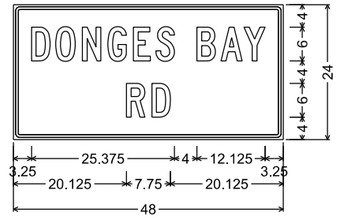
3.000" Radius, 1.000" Border, 0.750" Indent
"PORT", C; "WASHINGTON", C; "RD", C; "EXIT", C; "CLOSED", C; "USE", C; "EXIT", C; "82A", C;

NOTES

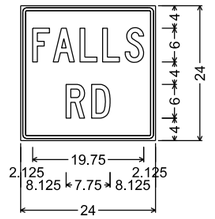
1. Fixed Message Signs Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D except as noted



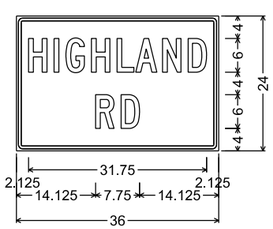
1.125" Radius, 0.500" Border, 0.375" Indent
"PORT", C; "WASHINGTON", C; "RD", C



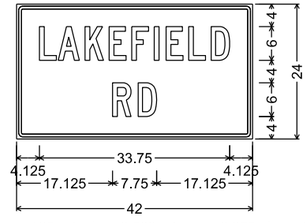
1.125" Radius, 0.500" Border, 0.375" Indent
"DONGES", C; "BAY", C; "RD", C;



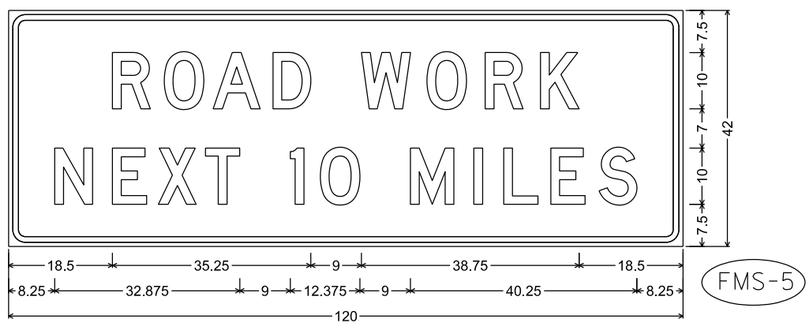
1.125" Radius, 0.500" Border, 0.375" Indent
"FALLS", C; "RD", C



1.125" Radius, 0.500" Border, 0.375" Indent
"HIGHLAND", C; "RD", C;



1.125" Radius, 0.500" Border, 0.375" Indent
"LAKEFIELD", C; "RD", C;



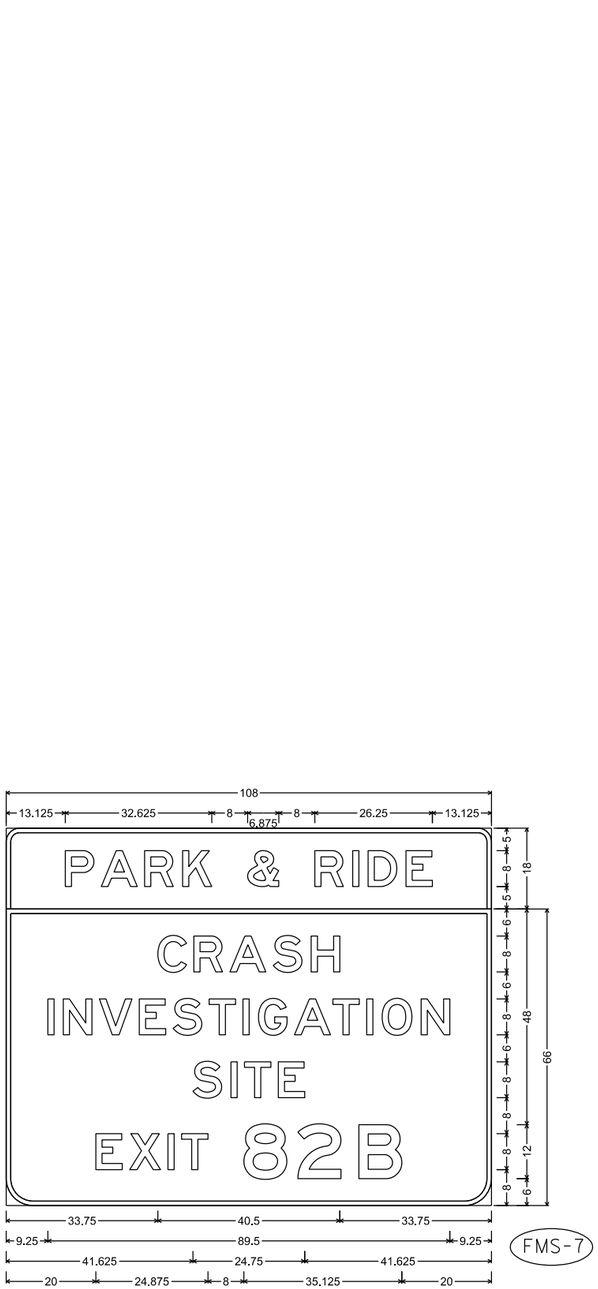
3.000" Radius, 1.000" Border, 0.750" Indent

7

7

NOTES

1. Fixed Message Signs Type II - Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. Right Lane Exit Only Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



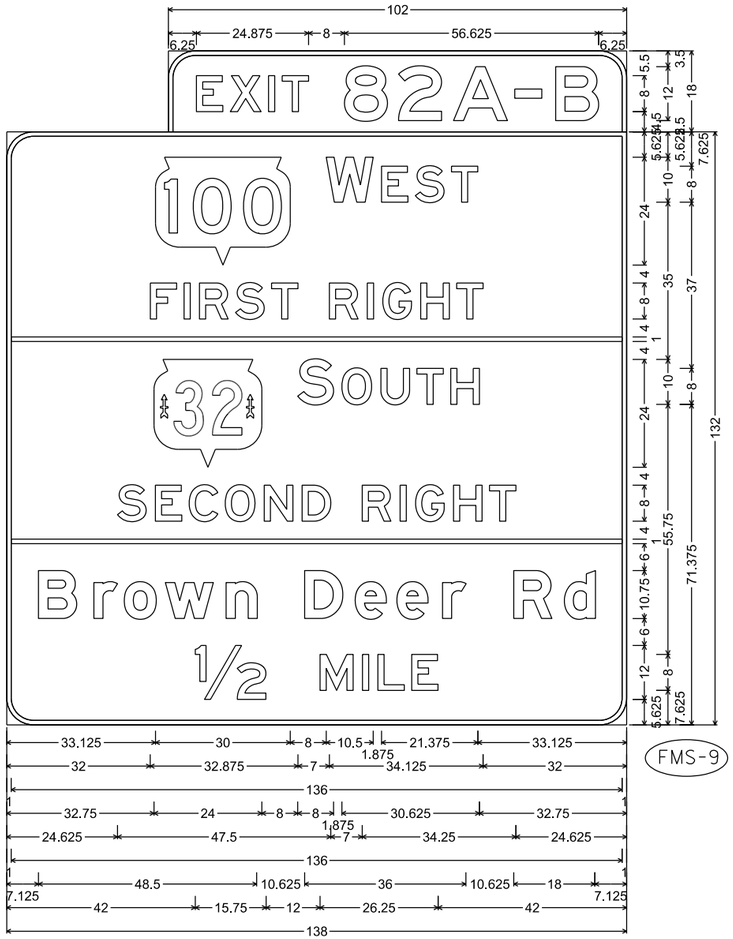
3.000" Radius, 1.000" Border, White on, Green;
6.000" Radius, 1.000" Border, White on, Blue;
"CRASH", E; "INVESTIGATION", E; "SITE", E; "EXIT", E; "82B", E;

6.000" Radius, 1.000" Border, White on, Green;

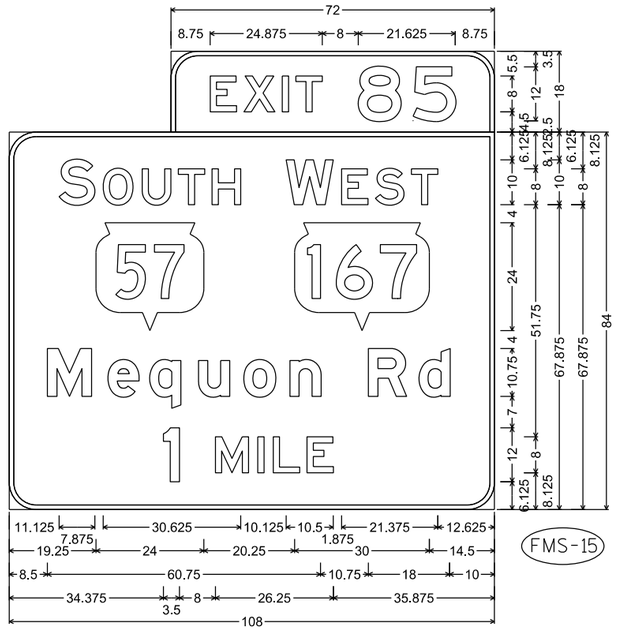
6.000" Radius, 1.000" Border, White on, Green;

NOTES

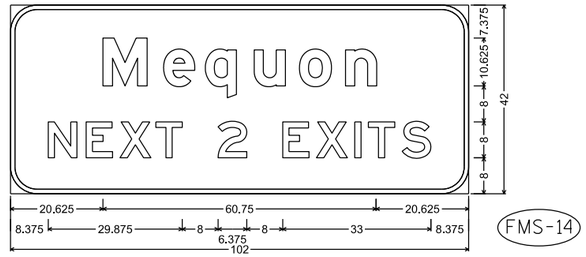
1. Fixed Message Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E or as noted.



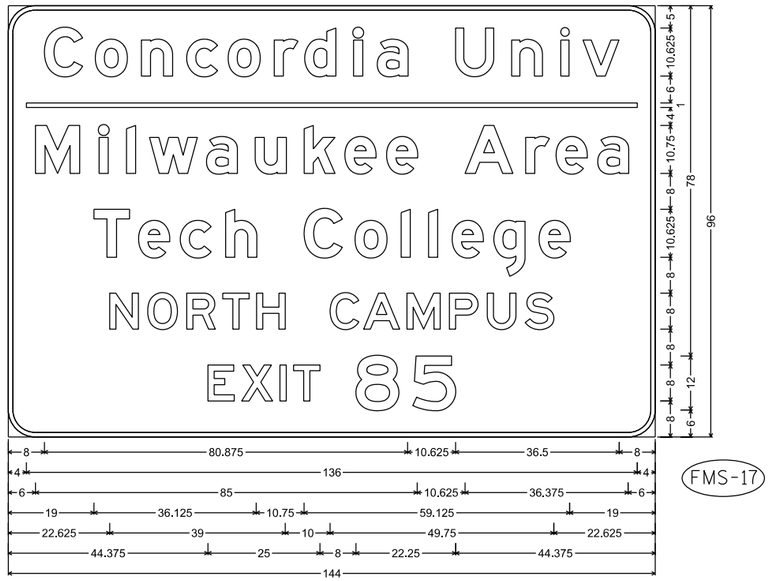
6.000" Radius, 1.000" Border, White on, Green;



6.000" Radius, 1.000" Border



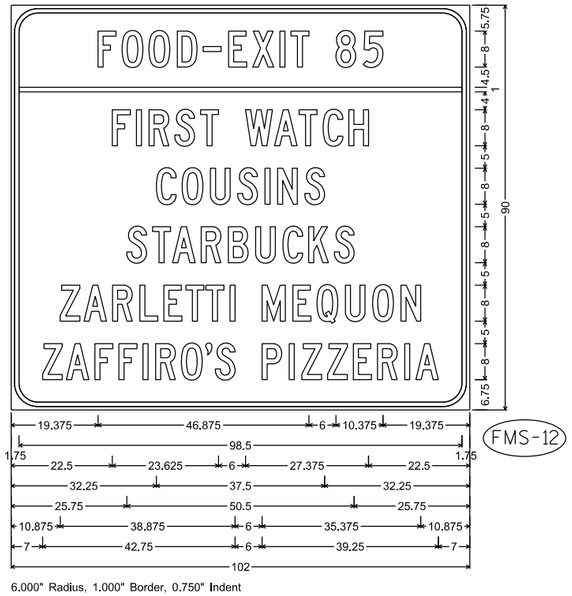
6.000" Radius, 1.000" Border

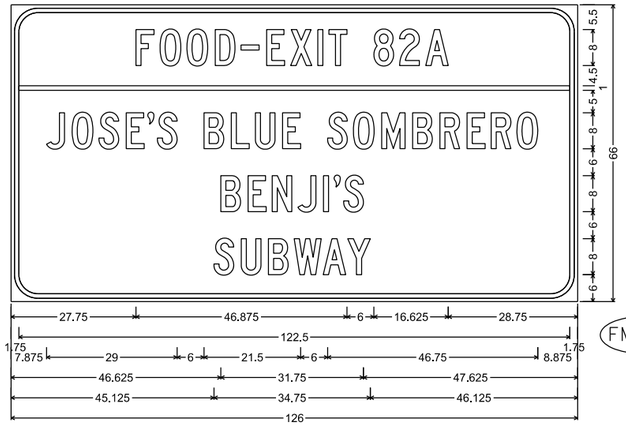


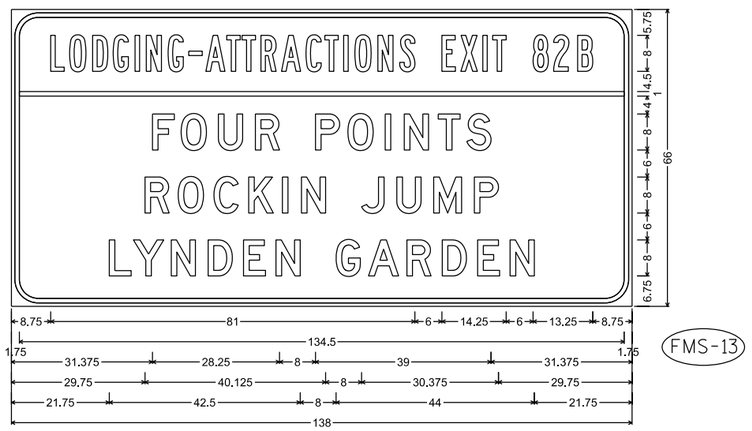
6.000" Radius, 1.000" Border
"Concordia", E Mod; "Univ", E

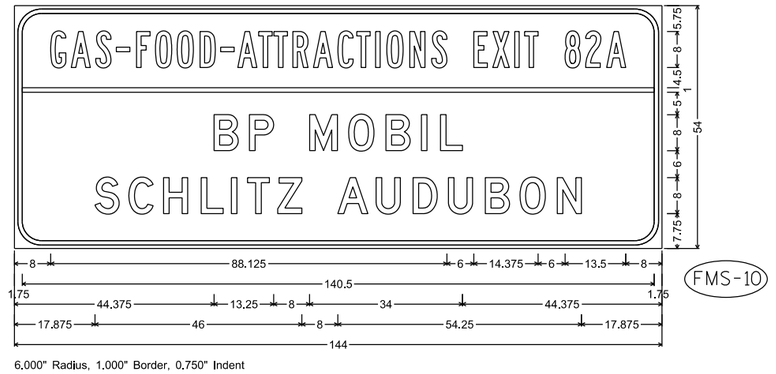
PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: OZAUKEE	TEMPORARY SIGNING	SHEET NO: 393	E

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NOTES

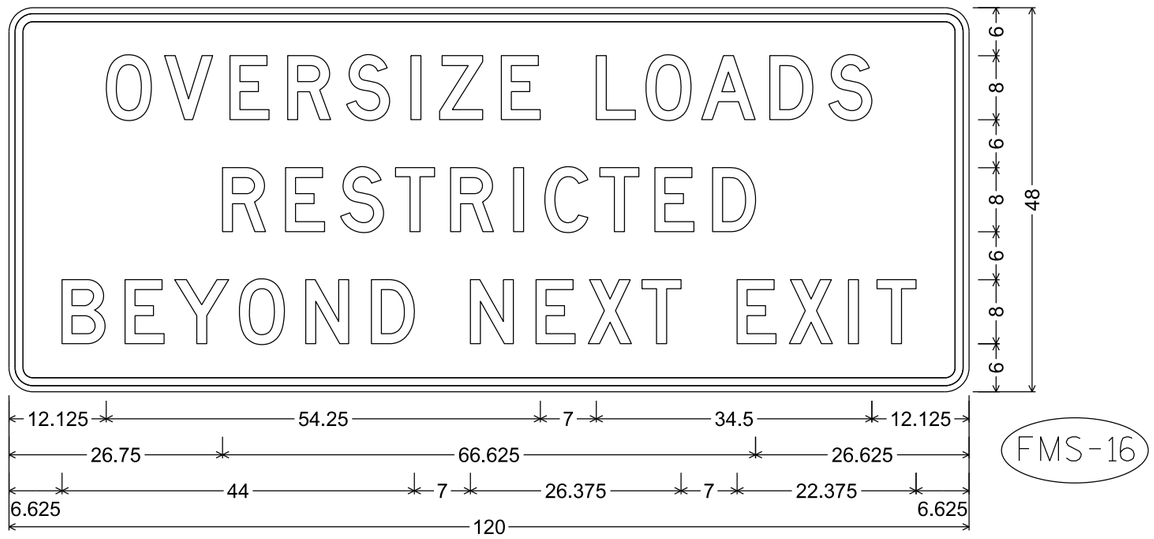
1. Fixed Message Signs Type II - Type F Reflective
2. Color:
   Background - Orange except as noted
   Message - Black
3. Message Series - C except as noted

7

7

NOTES

1. Fixed Message Sign Type II- Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D

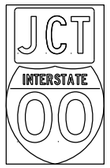


3.000" Radius, 1.000" Border, 0.750" Indent

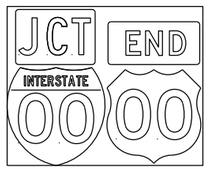
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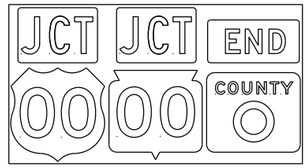
TYPICAL ASSEMBLIES



J1-1



J1-2



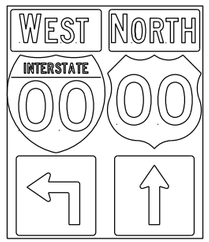
J1-3



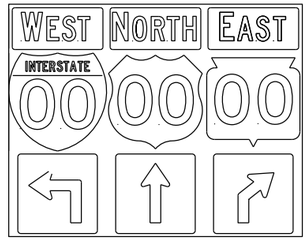
JR1-1



J2-1



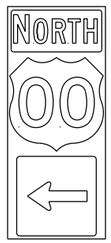
J2-2



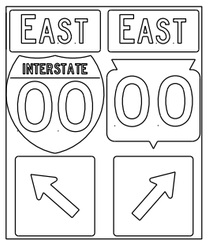
J2-3



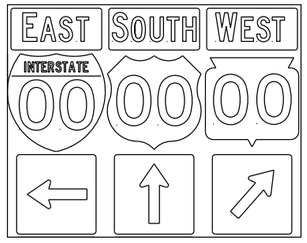
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



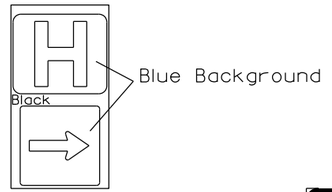
J3-1



J3-2



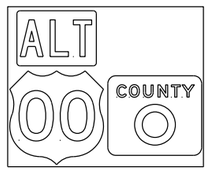
J3-3



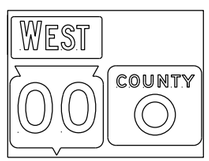
JH-1



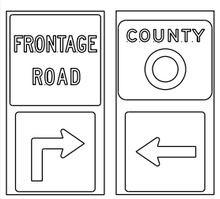
J4-1



J4-2



J4-2

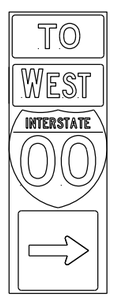


J12-1

J13-1



J32-1



J33-1



J22-1



J23-1



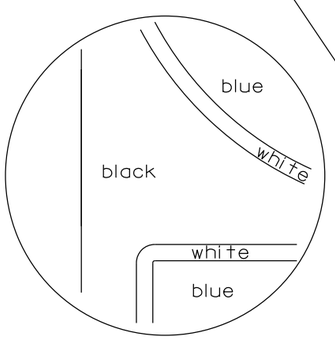
JR13-1

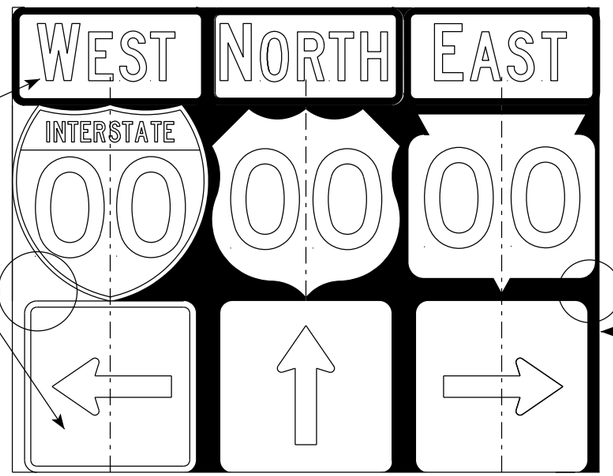


JR23-1



JR99-1





NOTES

1. Signs are Type II - Type H Reflective
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 3/18/21 PLATE NO. A2-1S.9

PROJECT NO:

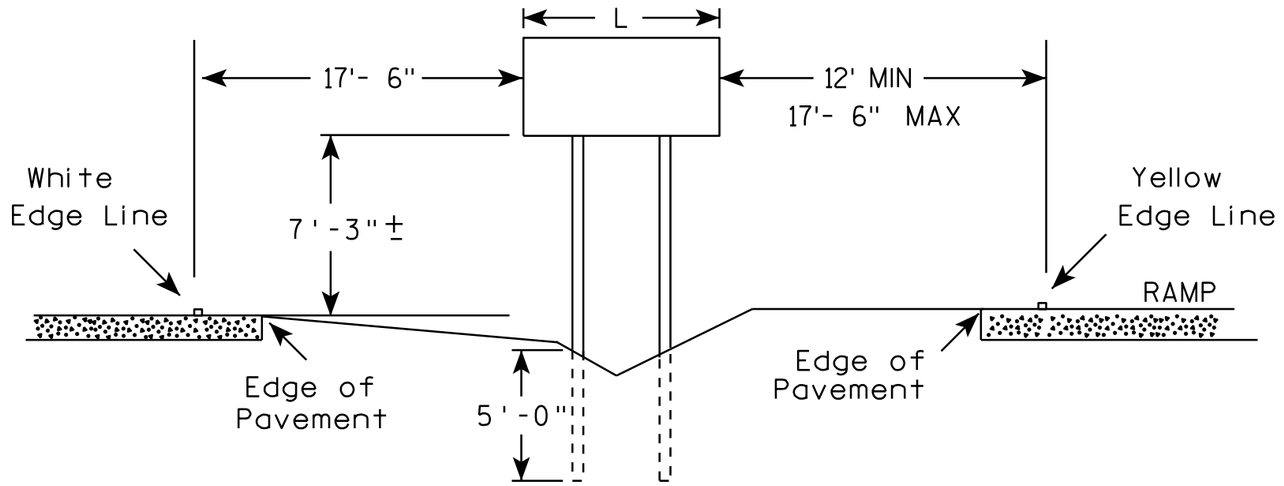
SHEET NO: 396 E

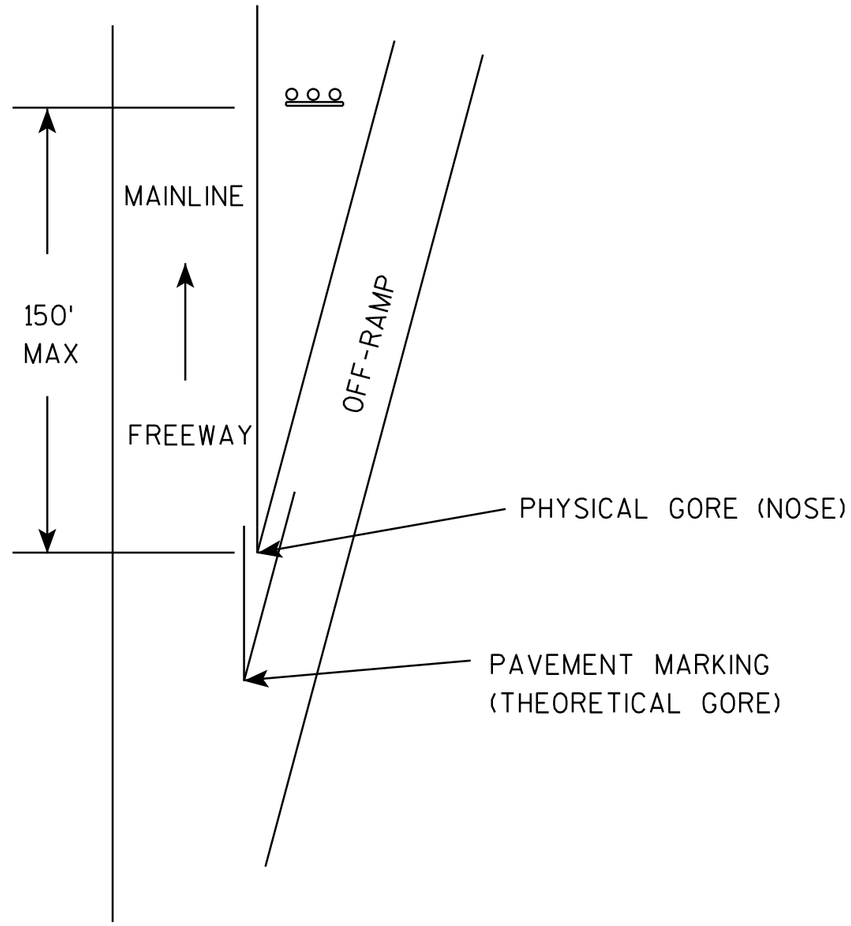
FILE NAME : C:\CAEfiles\Projects\tr_stdplate_A21S.dgn PLOT DATE : 18-MAR 2021 1:37 PLOT BY : mscj9h PLOT NAME :

WISDOT/CADDS SHEET 42

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GENERAL NOTES

1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
5. When L is equal to or exceeds 10 feet, use 3 posts as per A4-4.
6. The (∓) tolerance for the mounting height is 3 inches.

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TYPICAL INSTALLATION
OF TYPE II SIGNS ON
WOOD POSTS IN GORE

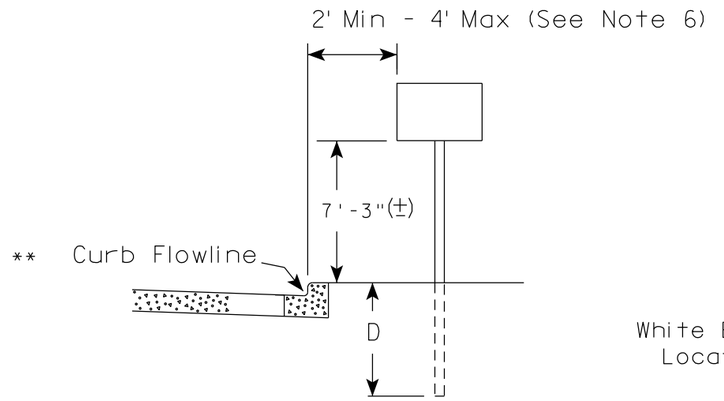
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

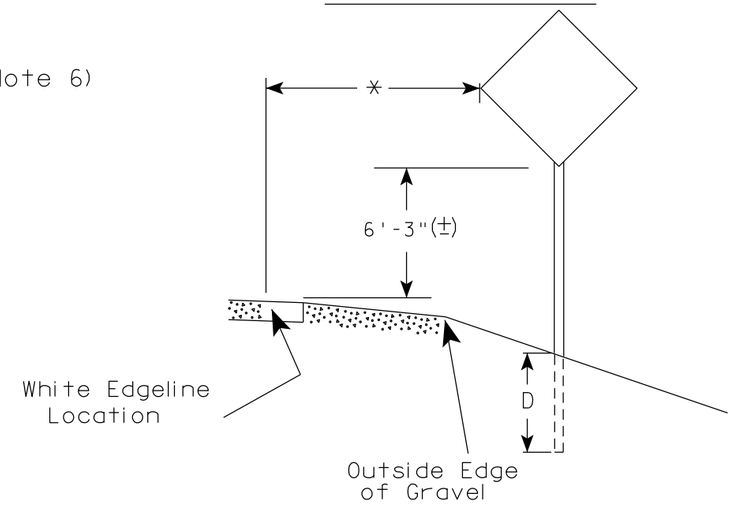
DATE 2/06/14 PLATE 397 A4-2.3

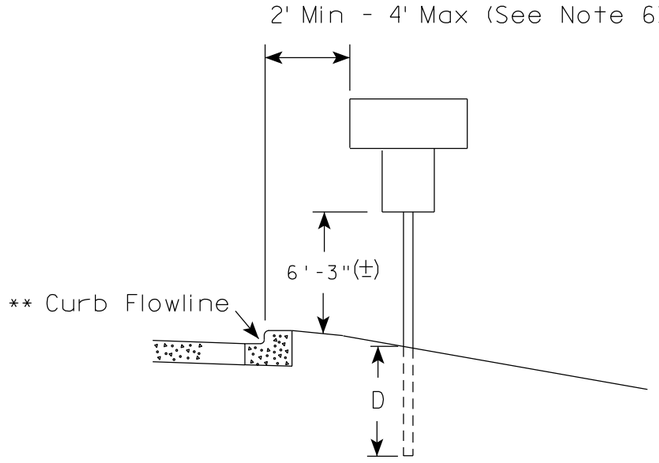
PROJECT NO: | SHEET NO: E

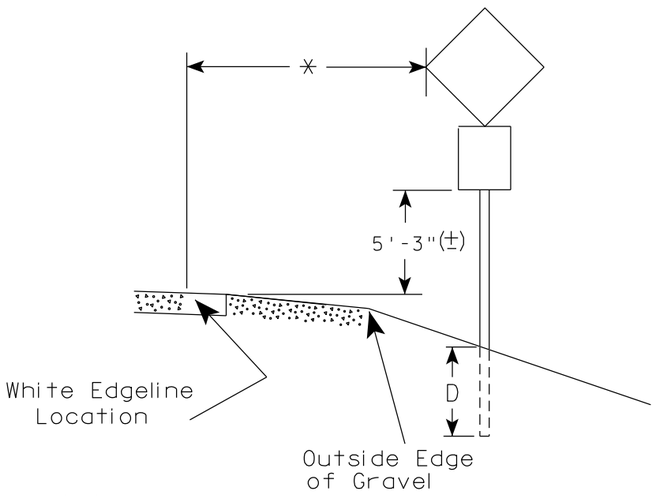
URBAN AREA



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 or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) 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" (±).
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 signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

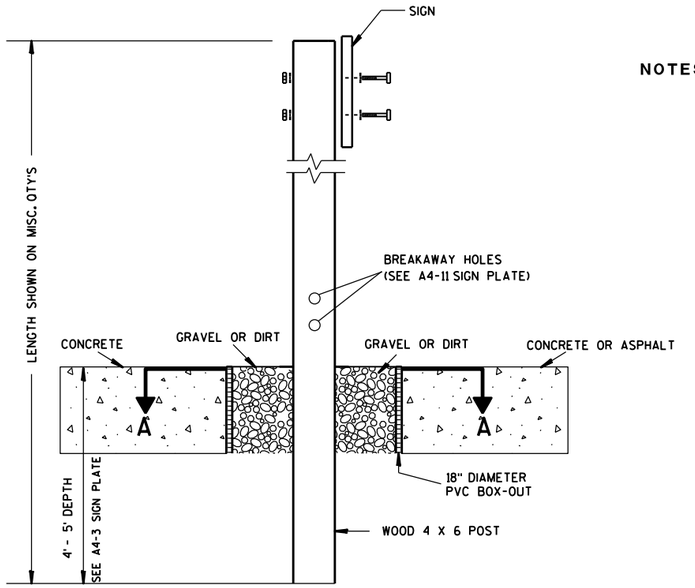
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

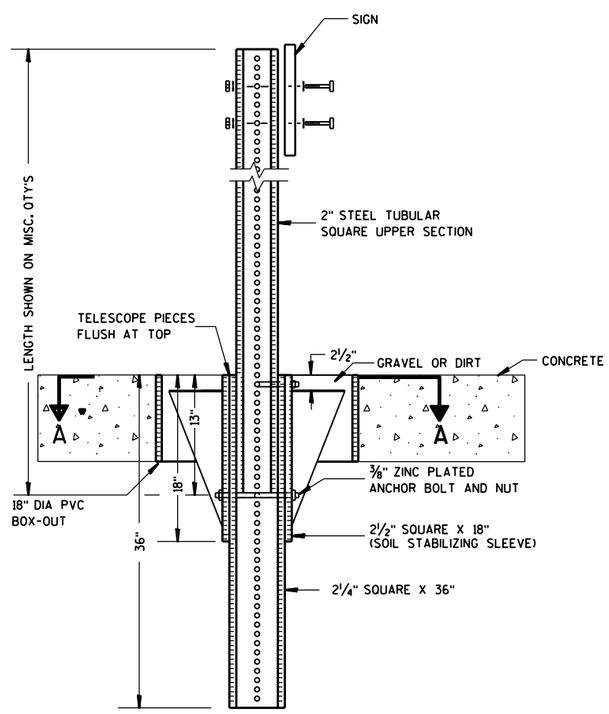
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 398	E



ELEVATION VIEW

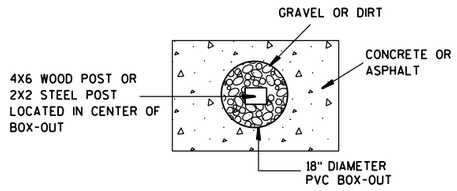
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

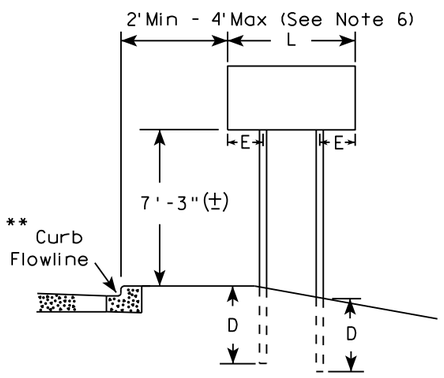
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

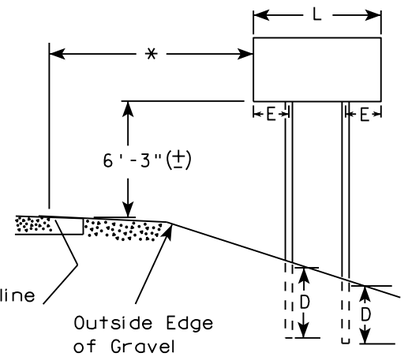
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

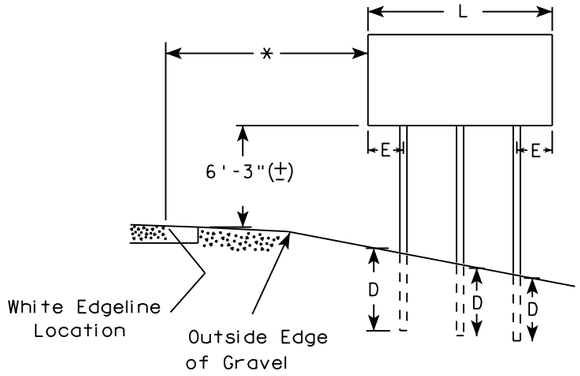
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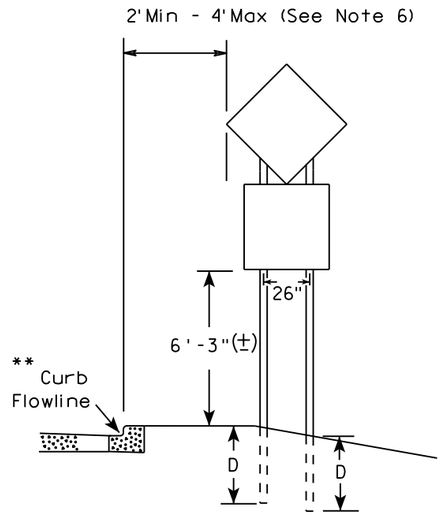
URBAN AREA



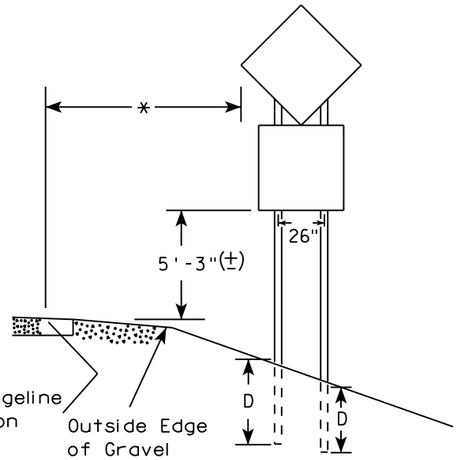
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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

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

GENERAL NOTES

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

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

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

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

POST EMBEDMENT DEPTH

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

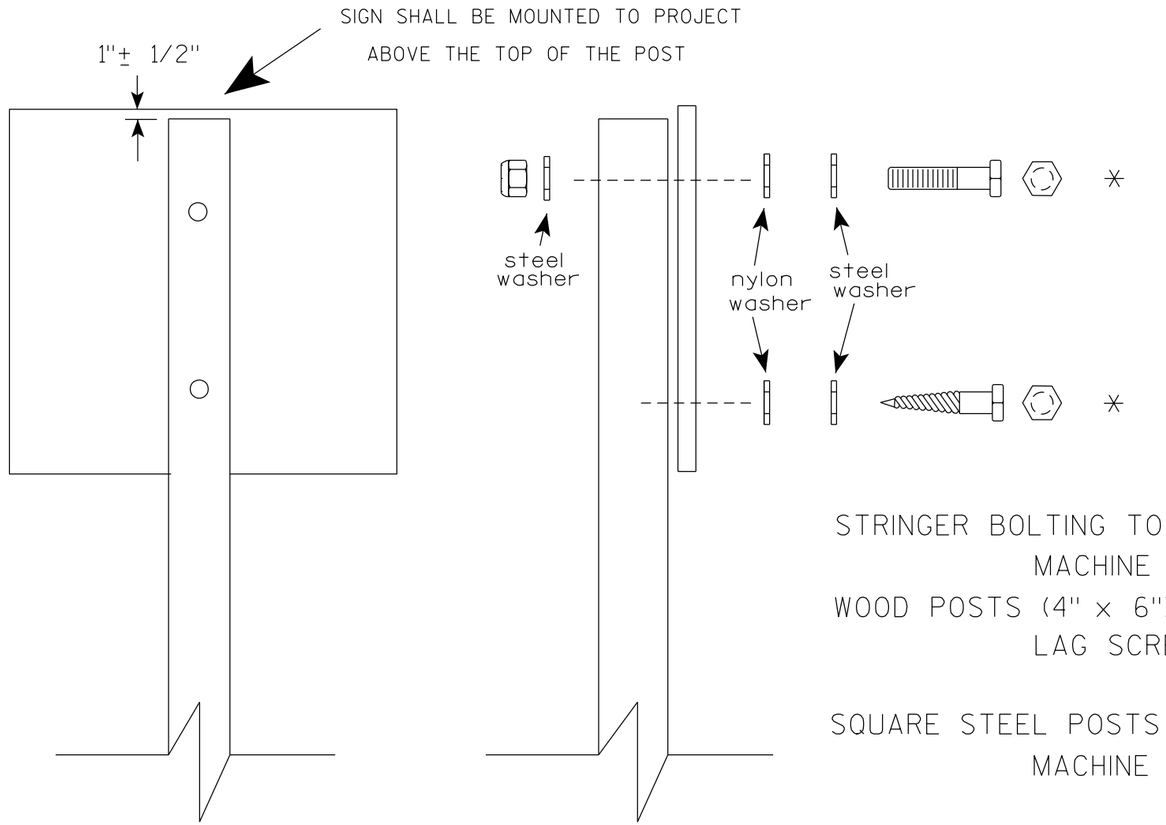
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 400	E



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

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

SHEET NO: 401 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 01-APRIL-2020 PLOT BY : dotc4c

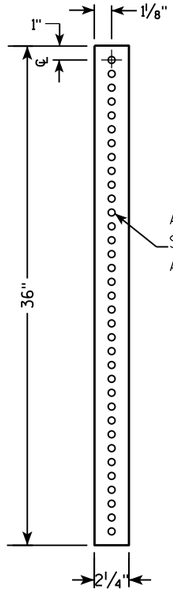
WISDOT/CADDS SHEET 42

7

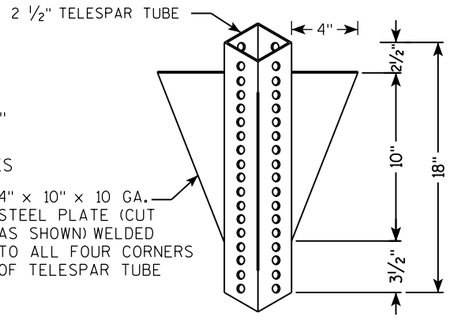
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TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

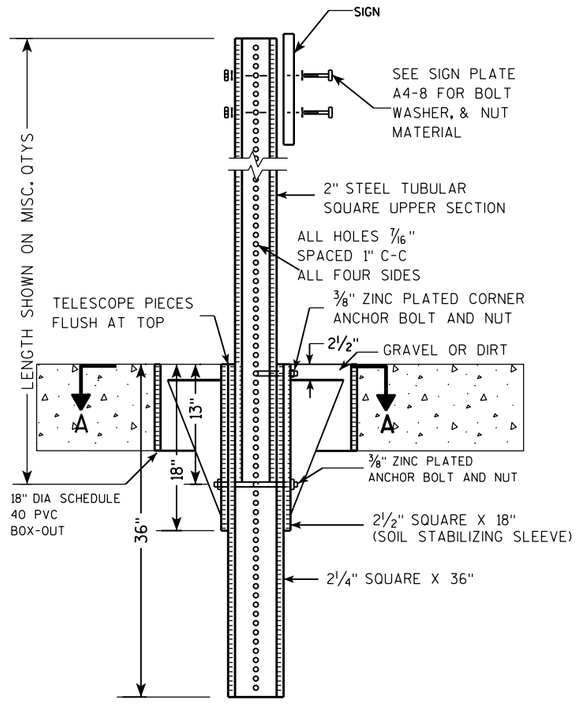
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



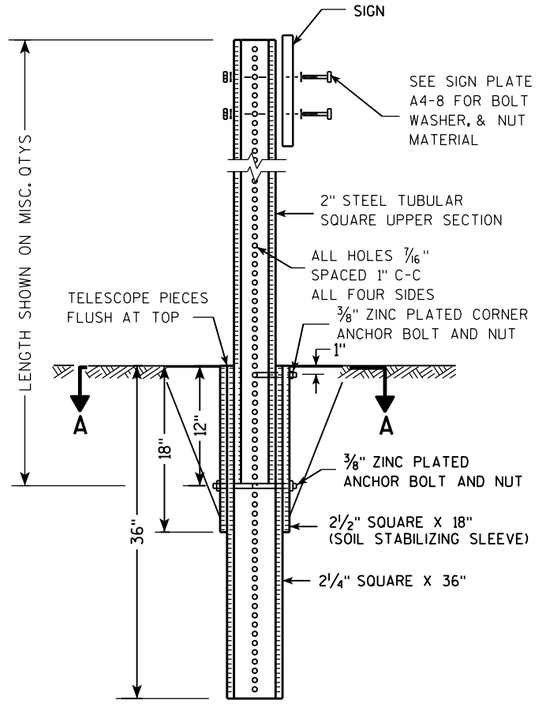
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

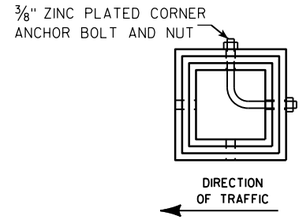


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

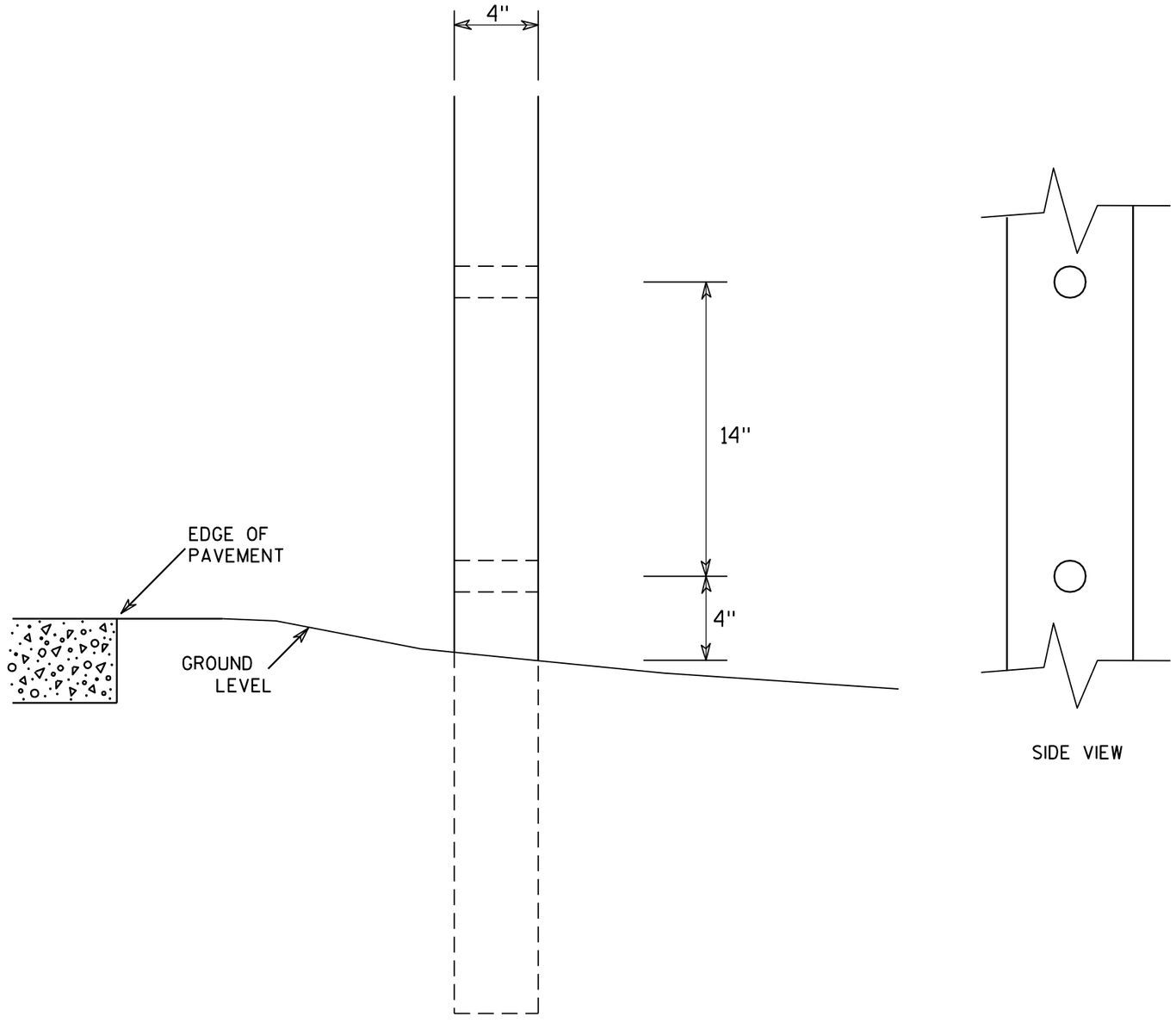
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 402 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

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

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

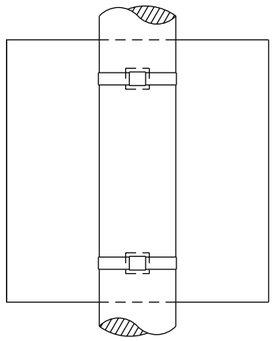
APPROVED Chester J Spang for State Traffic Engineer

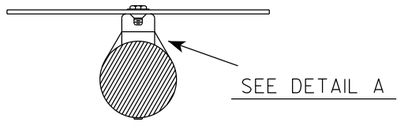
DATE 3/27/97 PLATE NO. A4-11.2

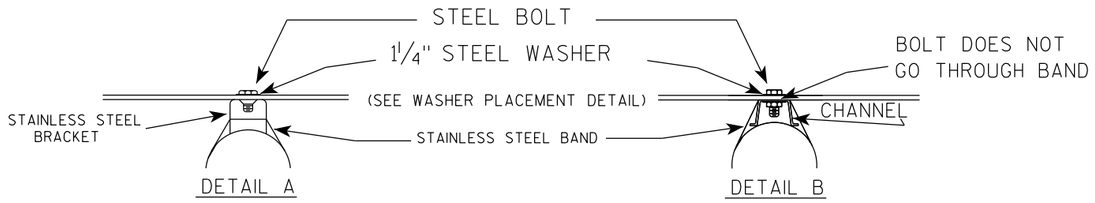
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 403	E

BANDING

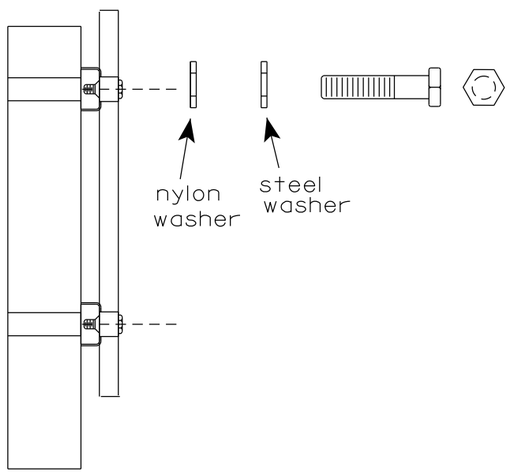
SINGLE SIGN







WASHER PLACEMENT

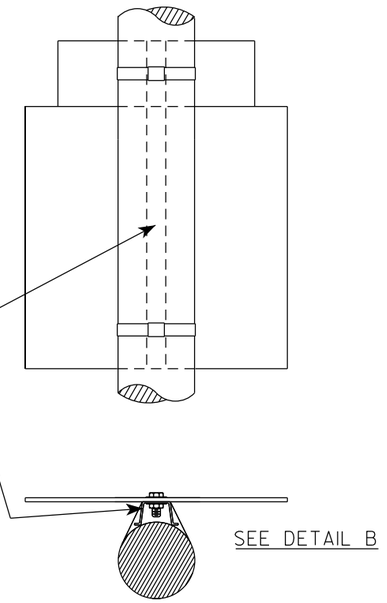


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

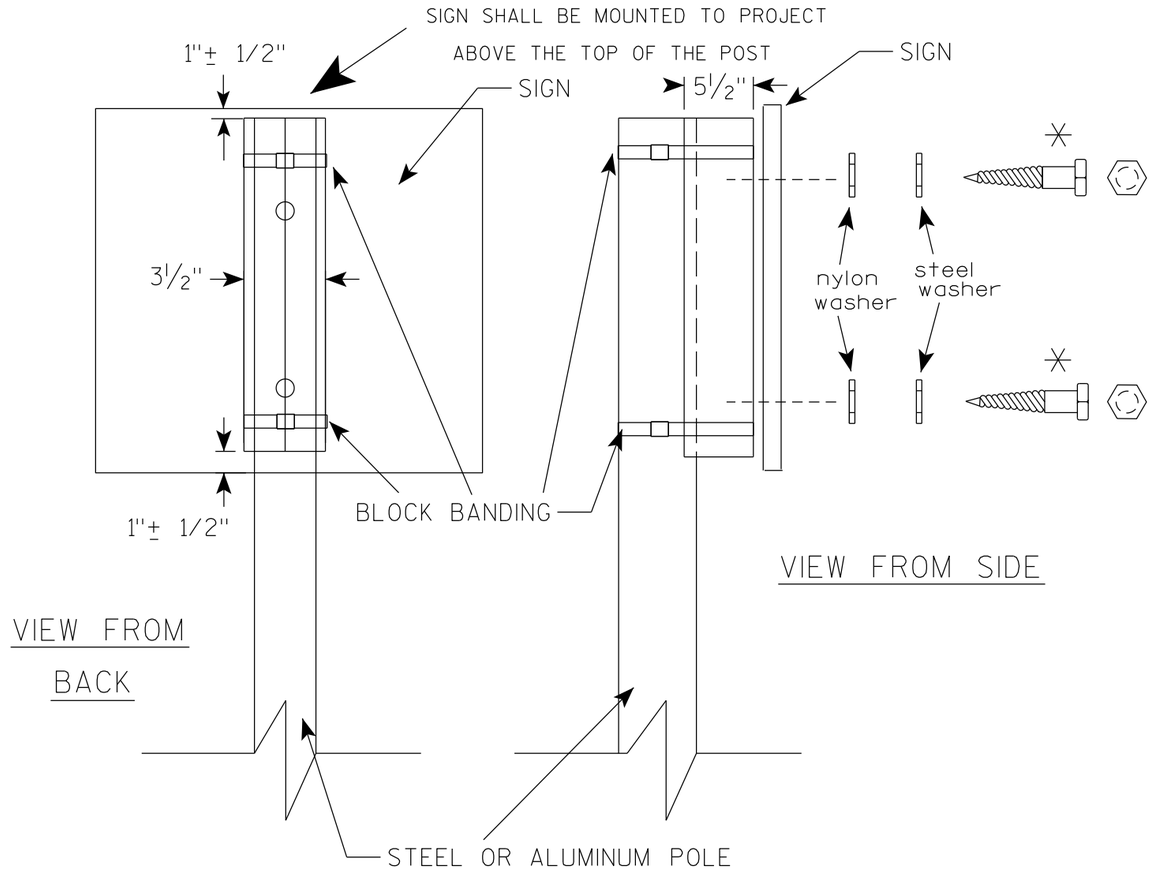
DATE 6/10/19 PLATE NO. A5-9.4

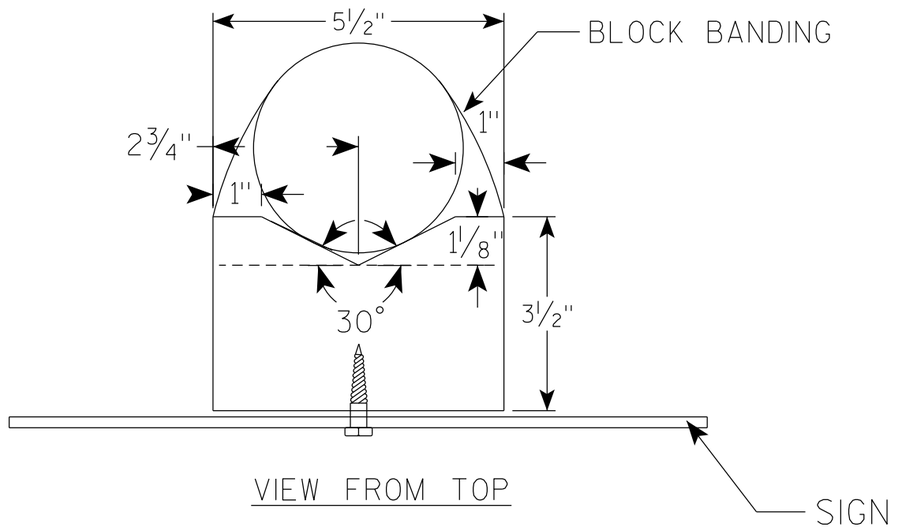
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 404	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





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
   b. 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"

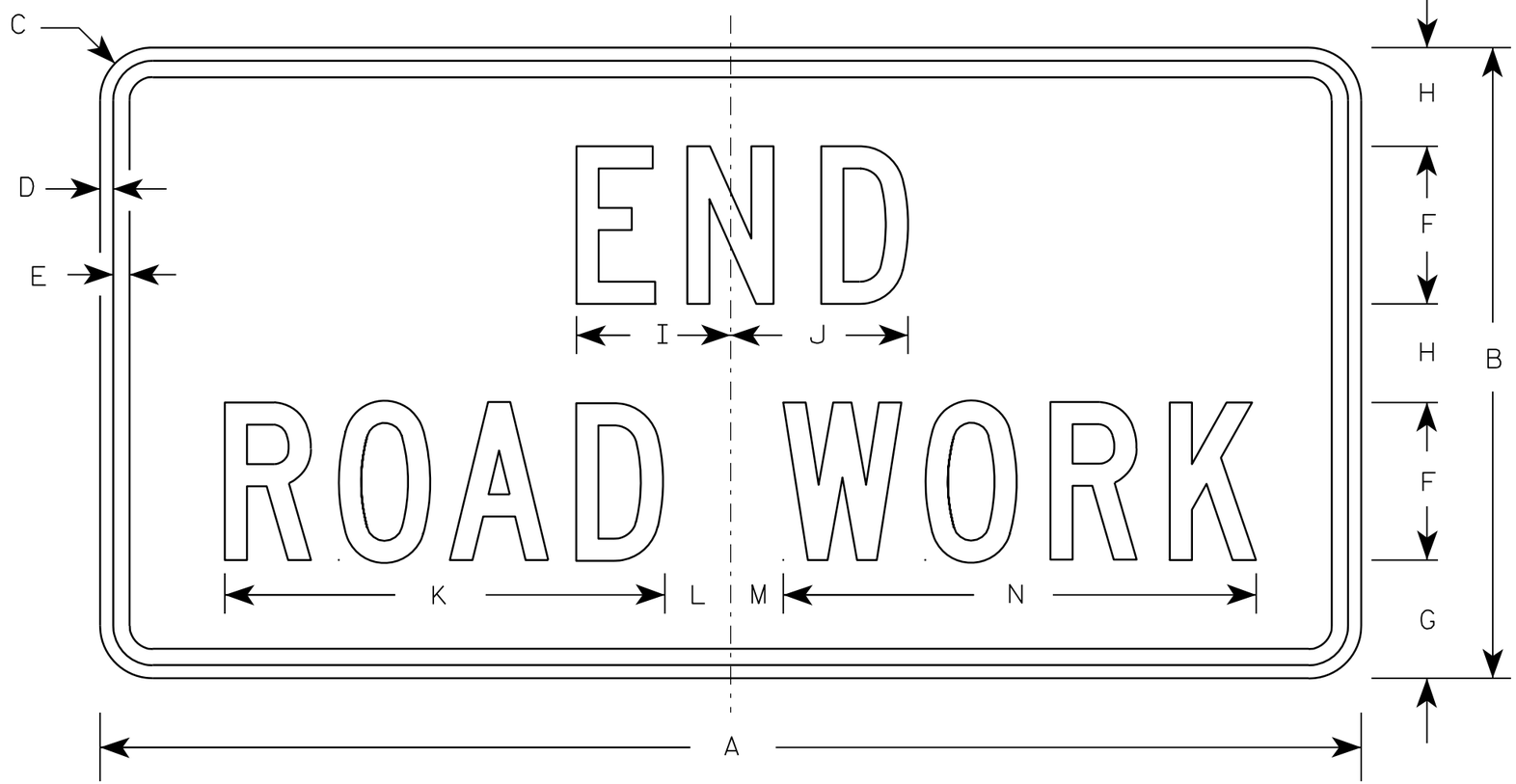
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO: | SHEET NO: 405 | 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

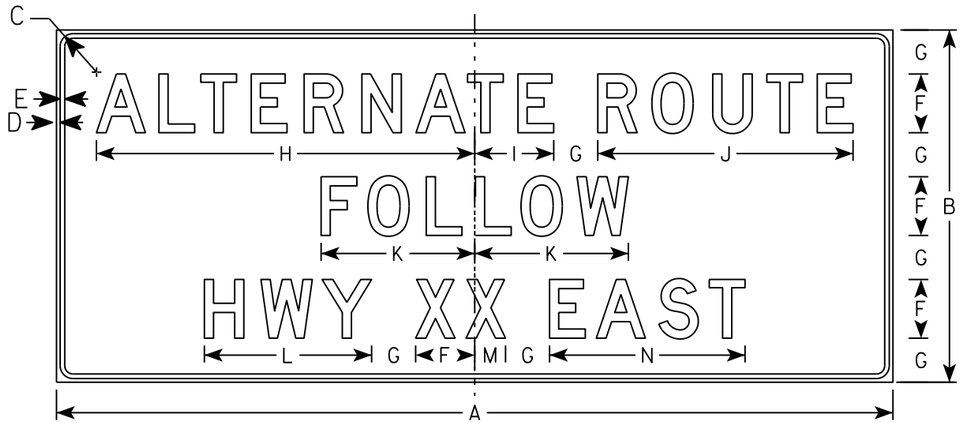
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

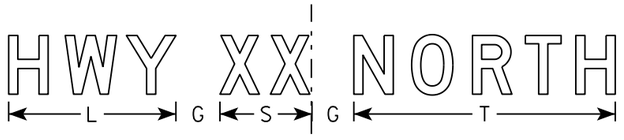
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 406	E



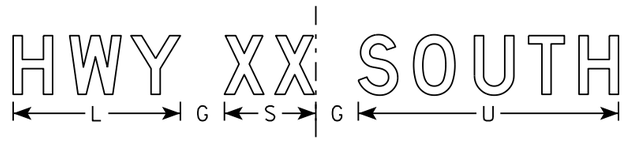
G20-52



G20-52A



G20-53



G20-53A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Substitute appropriate numeral and 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																											
2																											
3																											
4	114	48	2 1/4	1/2	5/8	8	6	51 1/2	10 3/4	34 3/4	20 7/8	22 3/4	4 1/4	26 5/8	8 3/4	3 1/2		28 1/8	12 1/2	35 5/8	35 1/2						34.5
5																											

STANDARD SIGN
G20-52 & G20-53

WISCONSIN DEPT OF TRANSPORTATION

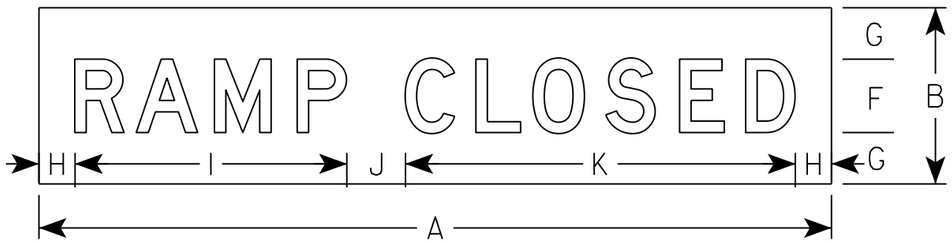
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/18 PLATE NO. G20-52.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 407 | E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Material shall be .040 aluminmum



G20-63

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																											
3	72	12				6	3	6	22 1/8	6	31 7/8																6.0
4	108	24				10	7	4 7/8	37	8	53 1/8																18.0
5																											

STANDARD SIGN

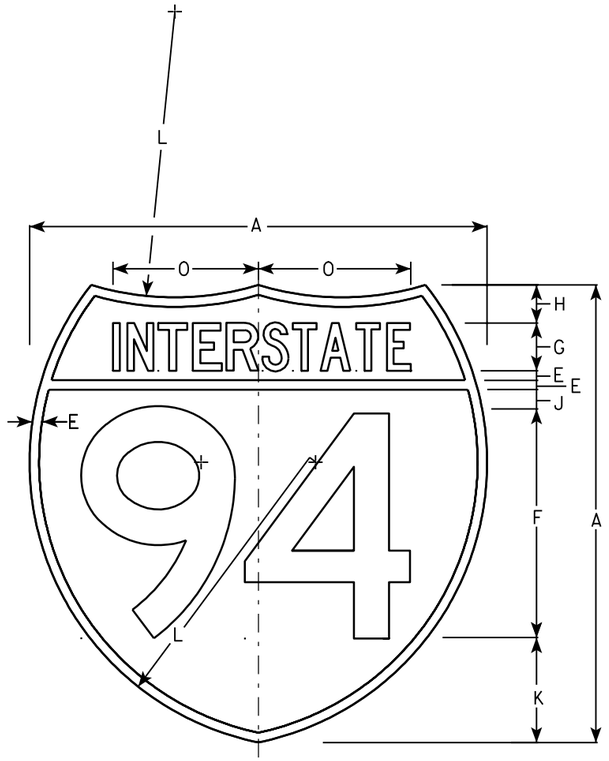
G20-63

WISCONSIN DEPT OF TRANSPORTATION

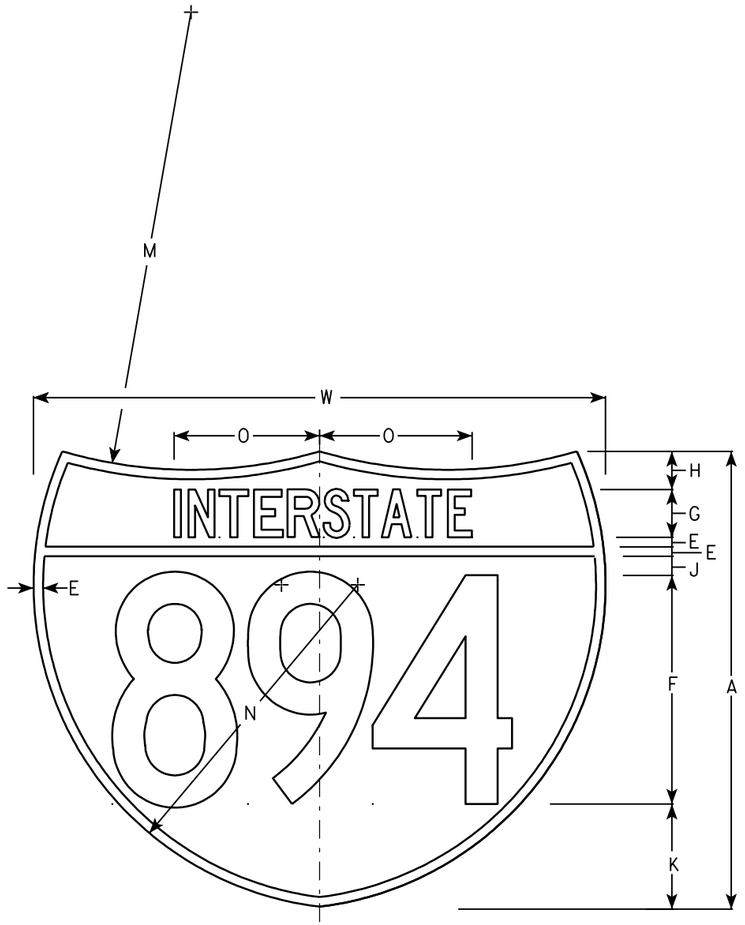
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 11/8/17 PLATE NO. G20-63.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 408 | E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 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	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

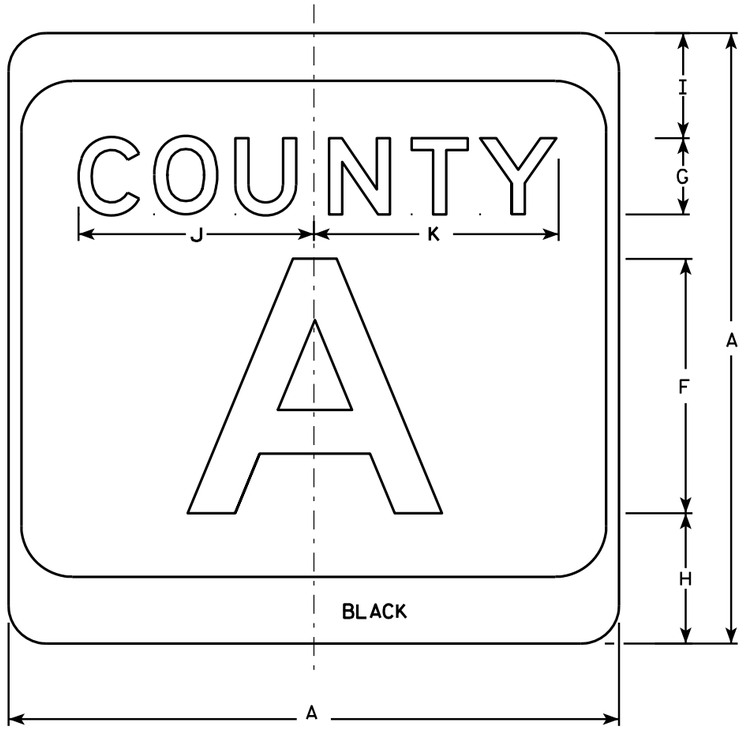
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

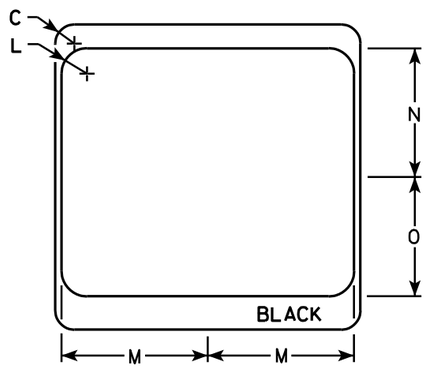
APPROVED Matthew R Rauch
for State Traffic Engineer

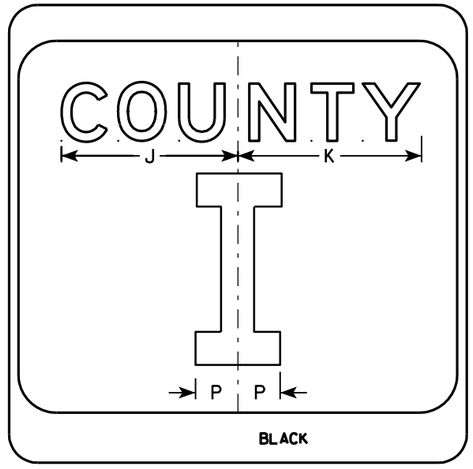
DATE 08/23/05 PLATE NO. M1-1.8

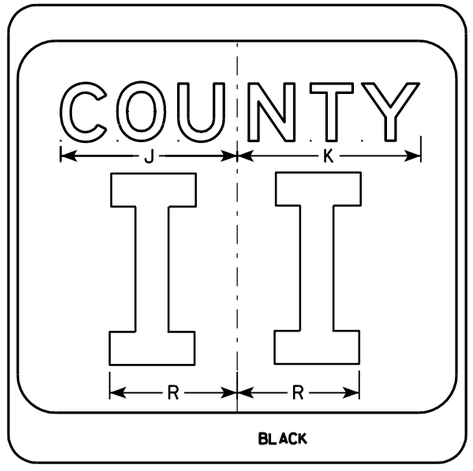
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 409	E



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

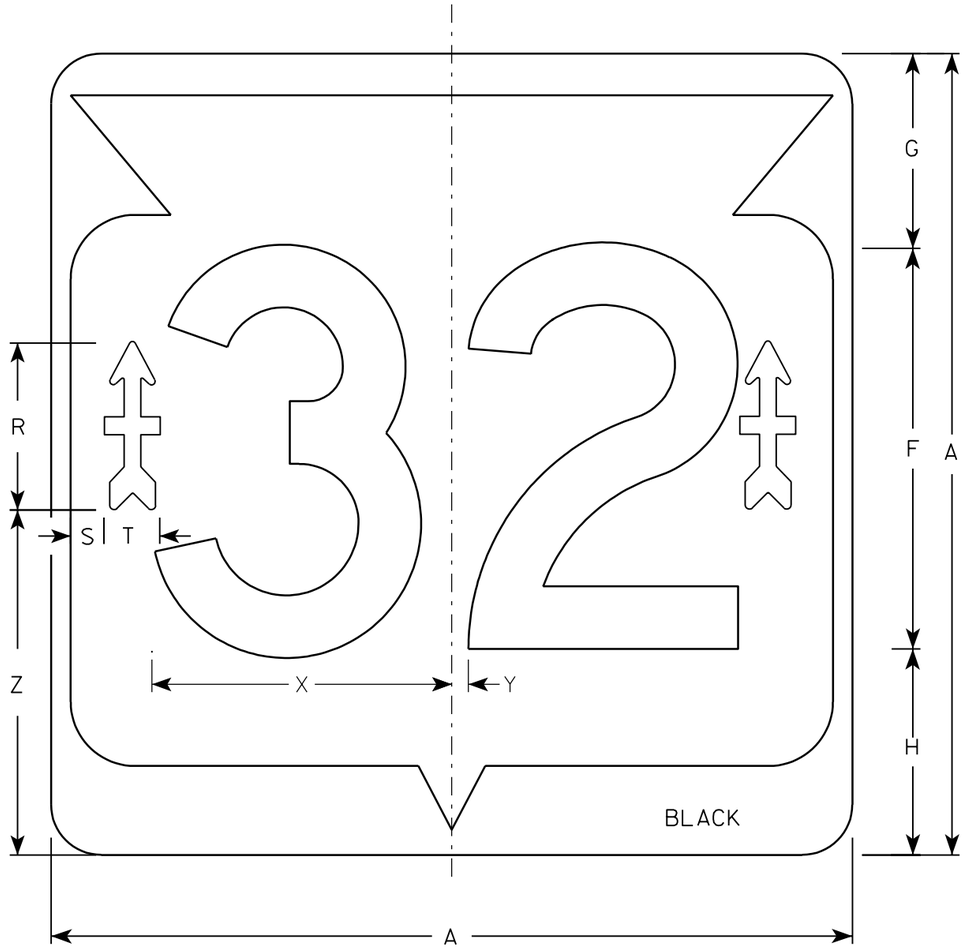
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

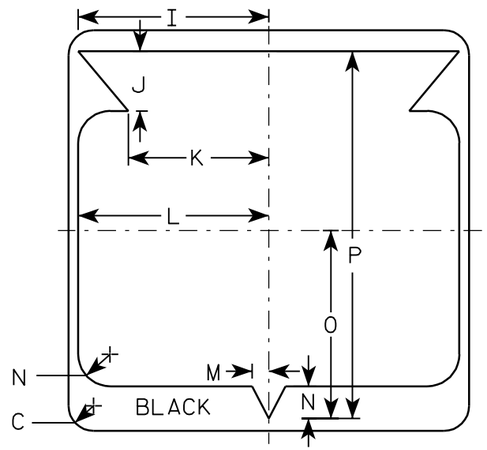
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 410	E



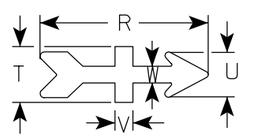
M1-6B

NOTES

1. Sign is Type II - Type H - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black
   Message - Black
   Arrow - Type H Reflective Red
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.



32nd DIVISION ARROW
ACTUAL SIZE



Metric equivalent for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m²
1																												
2	24		1 ½			12	5 ½	6 ½	10 ¼	2 ½	8 ⅞	11 ½	1	1 ⅞	11 ¼	21 ⅞		5 ⅛	¾	1 ⅞	1 ½	⅝	⅝	9	½	10 ½	4.0	.36
3	36		2 ¼			18	8 ¾	9 ¼	15 ⅜	5 ⅜	12 ⅝	17 ⅛	1 ½	2 ⅞	16 ⅞	33		7 ½	1 ½	2 ½	2	⅞	¾	13 ½	¾	15 ½	9.0	.81
4	36		2 ¼			18	8 ¾	9 ¼	15 ⅜	5 ⅜	12 ⅝	17 ⅛	1 ½	2 ⅞	16 ⅞	33		7 ½	1 ½	2 ½	2	⅞	¾	13 ½	¾	15 ½	9.0	.81
5	36		2 ¼			18	8 ¾	9 ¼	15 ⅜	5 ⅜	12 ⅝	17 ⅛	1 ½	2 ⅞	16 ⅞	33		7 ½	1 ½	2 ½	2	⅞	¾	13 ½	¾	15 ½	9.0	.81

STATE ROUTE MARKER "32"
M1-6B FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 12/5/05 PLATE NO. M1-6B.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 411 | E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Graphics - White
   Circle Tour Message is Green
3. Message Series - Special
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.	Area m2
1																												
2	24			1 1/8	1/2																						4.0	.36
3																												
4	36			1 5/8	3/4																						9.0	.81
5																												

STANDARD SIGN
M1-93

WISCONSIN DEPT OF TRANSPORTATION

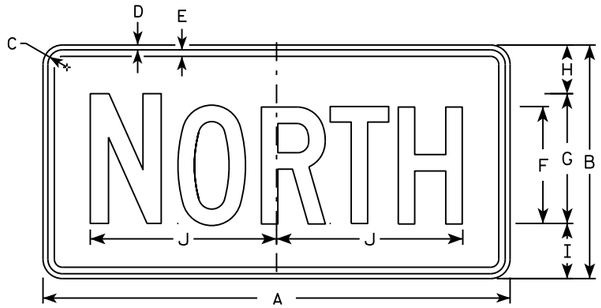
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/5/15 PLATE NO. M1-93.2

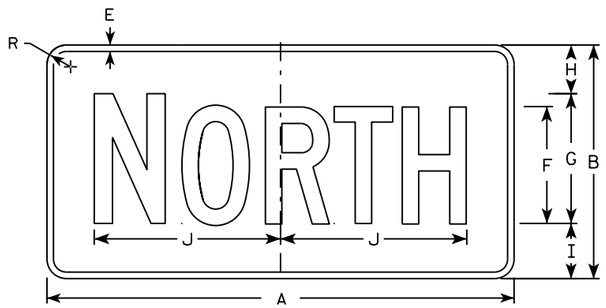
412

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M193.DGN PLOT DATE : 01-DEC-2015 18:00 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.837526:1.000000



M3-1
MM3-1
MP3-1



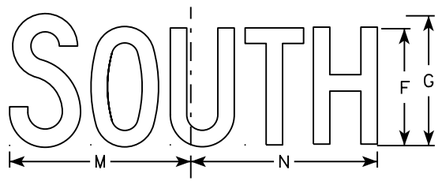
MB3-1
MK3-1
MN3-1



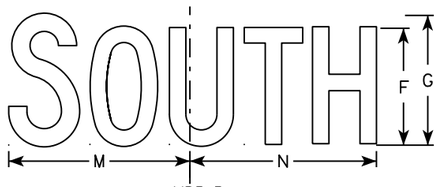
M3-2
MM3-2
MP3-2



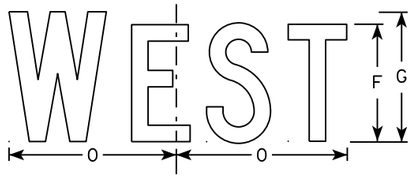
MB3-2
MK3-2
MN3-2



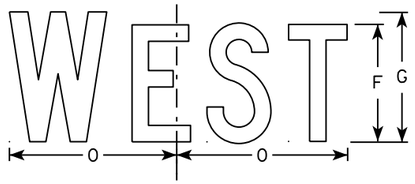
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

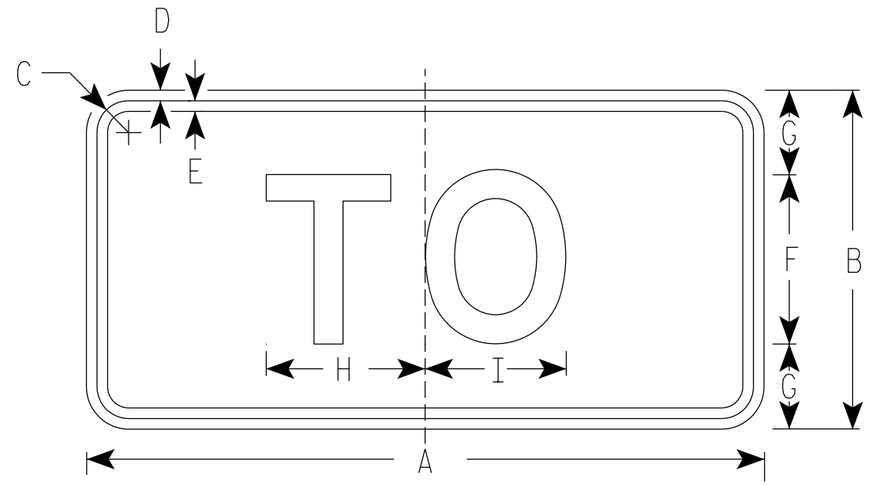
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

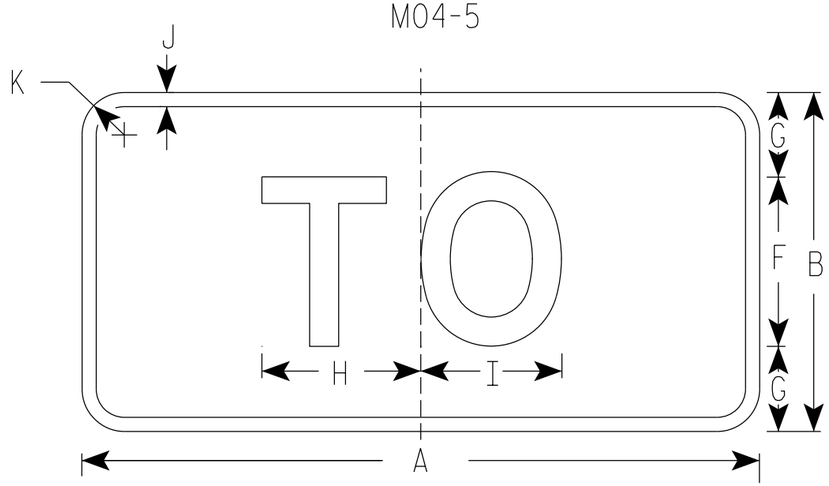
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-5
MM4-5
MP4-5
M04-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See note 5
   Message - See note 5
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. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

   M04-5 Background - Orange Type F Reflective
   Message - Black

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

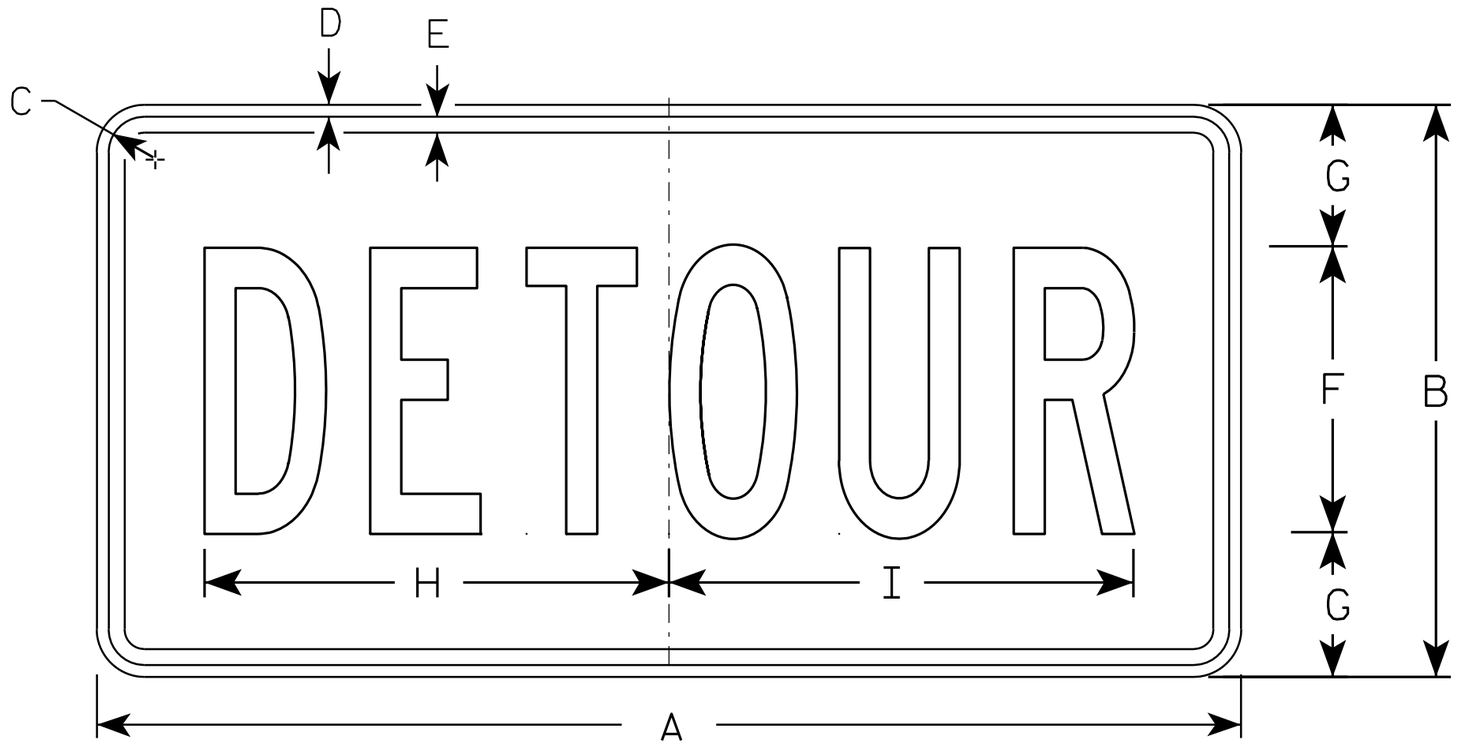
STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/7/19 PLATE NO. M4-5.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 414 | E



M4-8

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

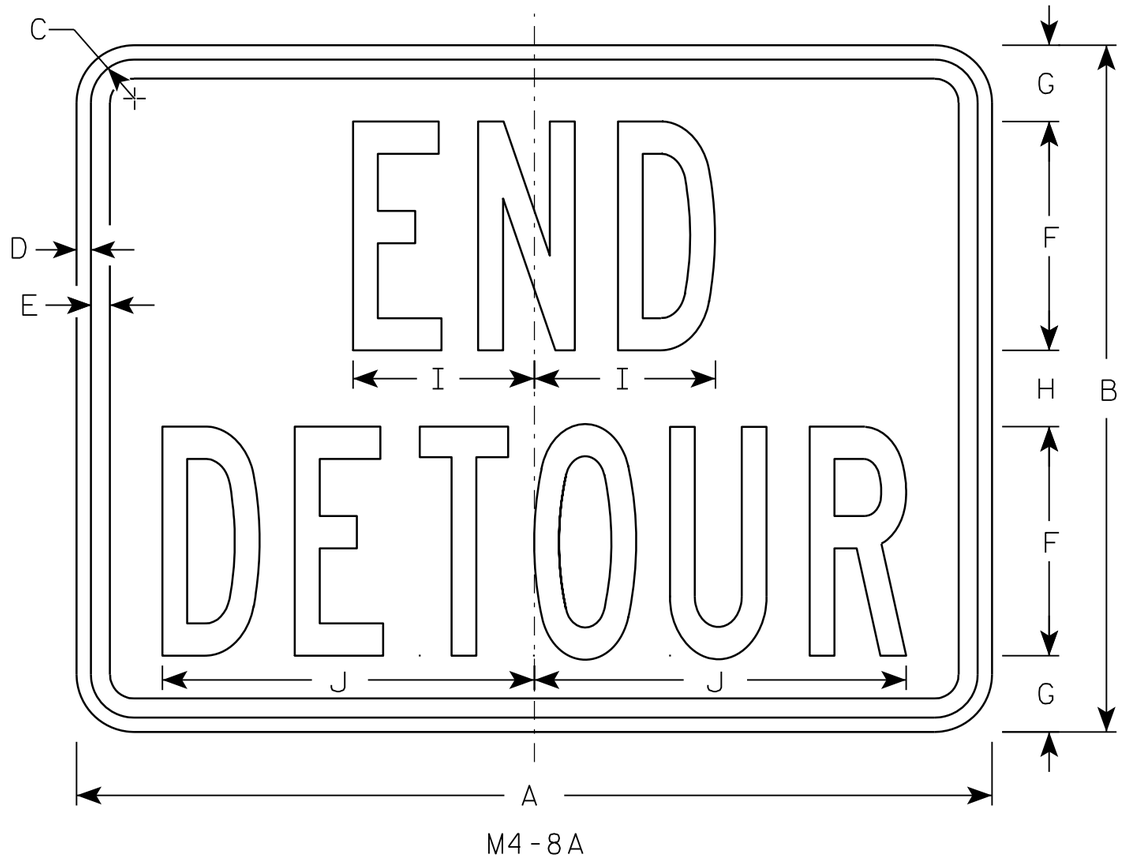
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 415	E



M4-8A

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

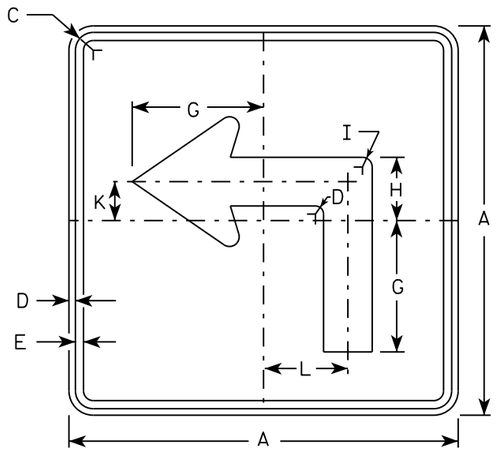
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

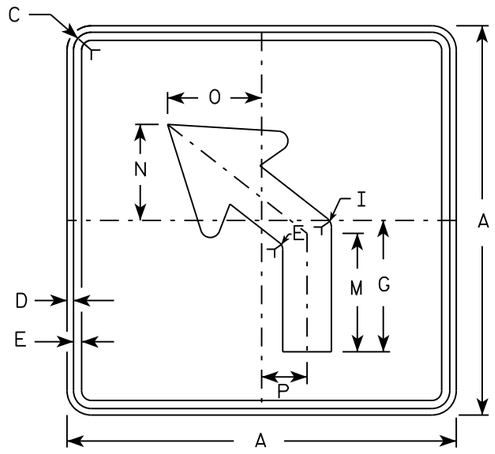
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

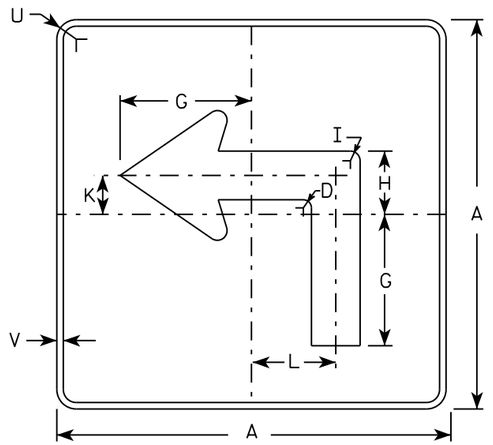
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 416	E



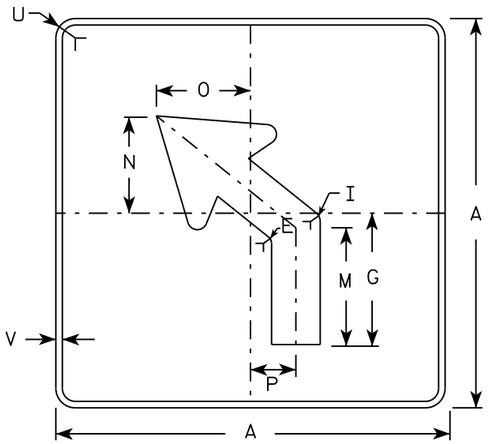
M5-1L
MM5-1L
MO5-1L
MP5-1L



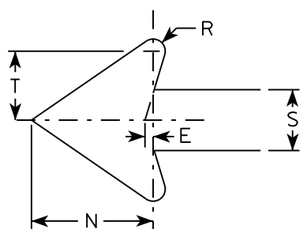
M5-2L
MM5-2L
MO5-2L
MP5-2L



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



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



NOTES

1. Signs are Type II - Type H reflective 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. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

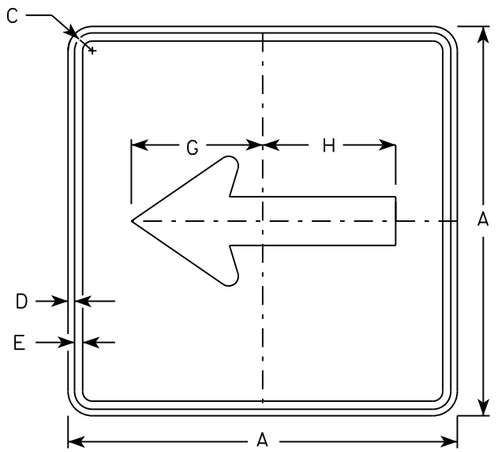
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

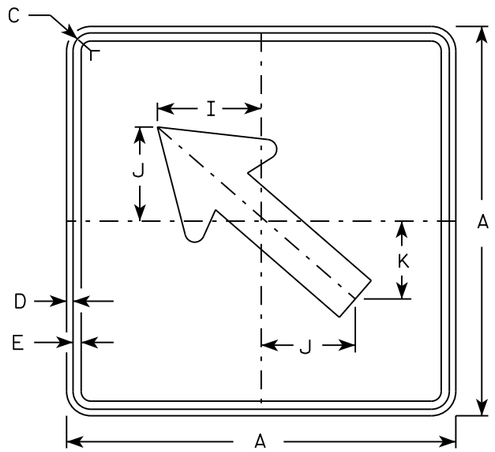
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



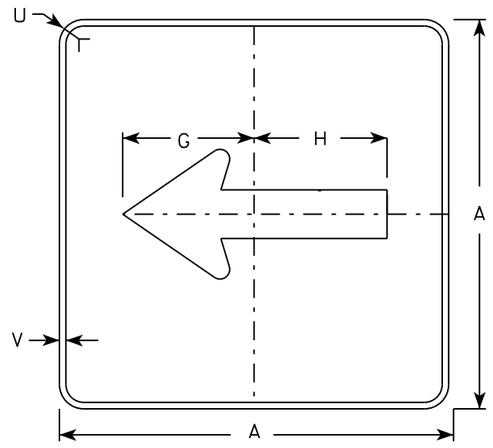
M6-1
MM6-1
MO6-1
MP6-1



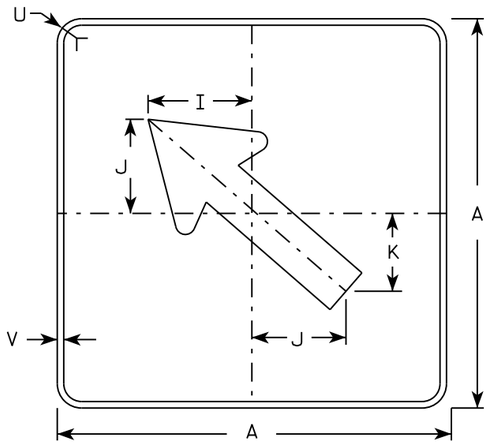
M6-2
MM6-2
MO6-2
MP6-2

NOTES

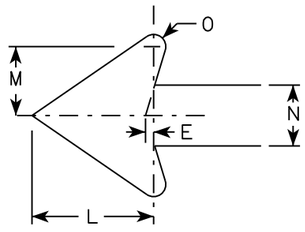
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   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
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



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

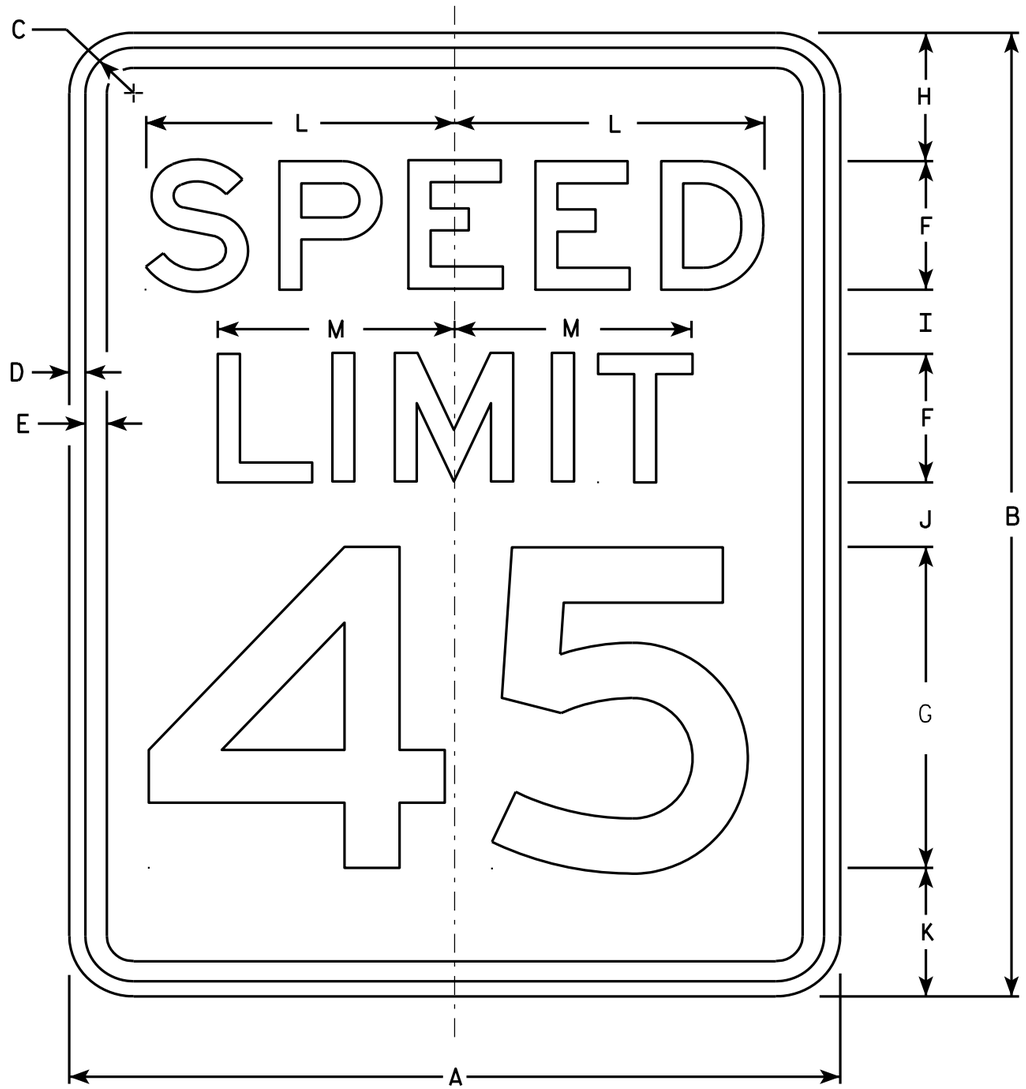
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 418 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



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

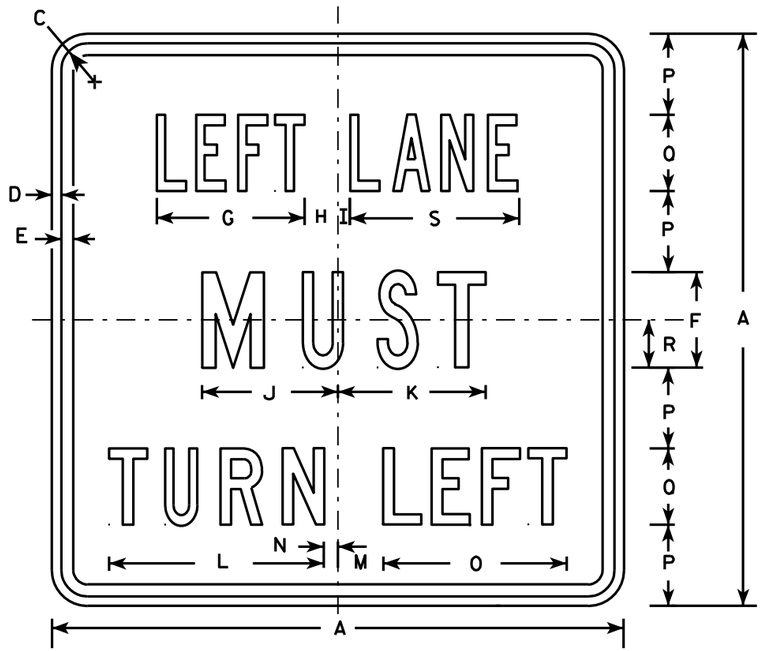
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

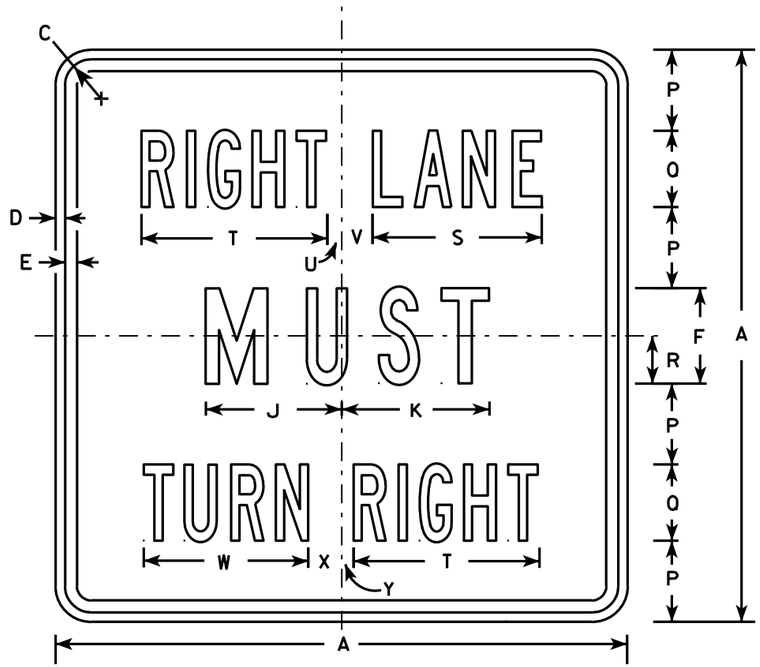
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 419 | E



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

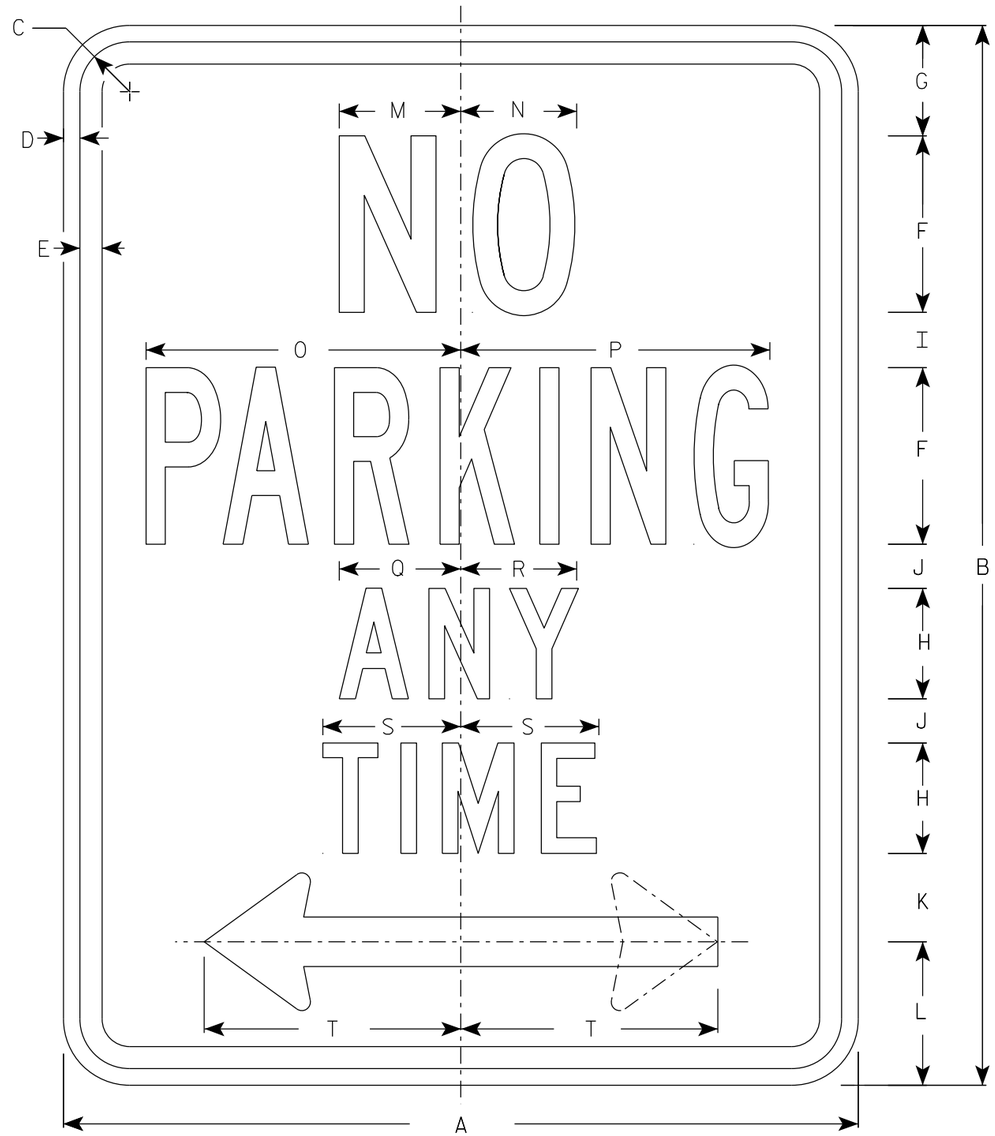
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 420 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R37.DGN PLOT DATE : 18-MAR-2011 09:43 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.945391:1.000000

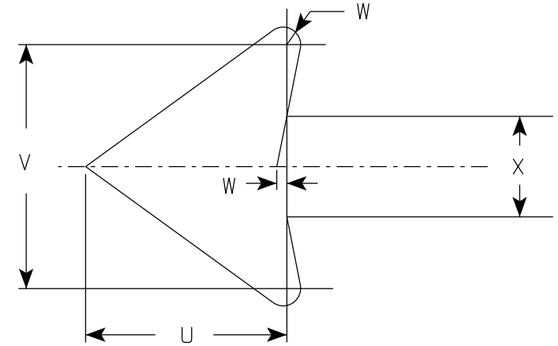
WISDOT/CADDS SHEET 42



R7-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Lines 1, 3 and 4 are series C, line 2 is series B.
5. 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

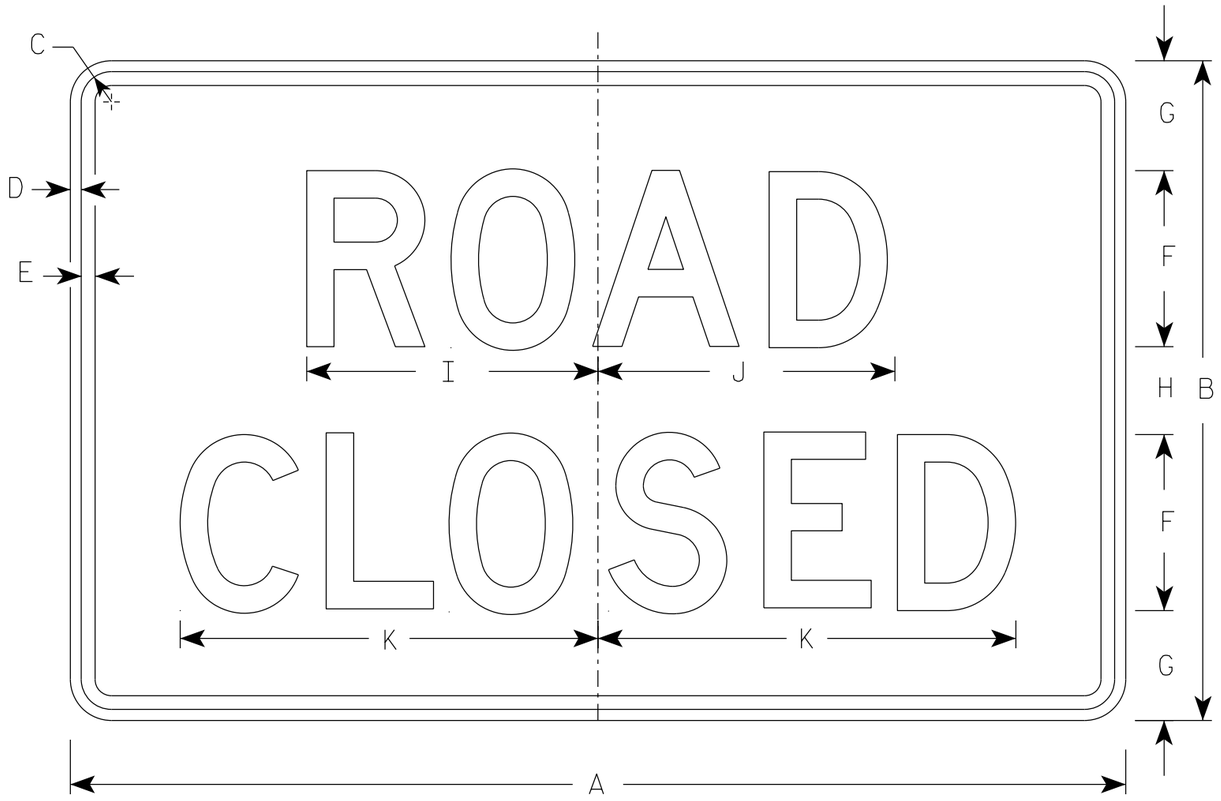
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2021 PLATE NO. R7-1.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 421 E

7

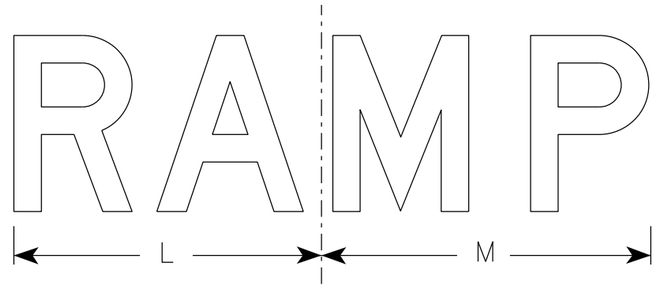
7



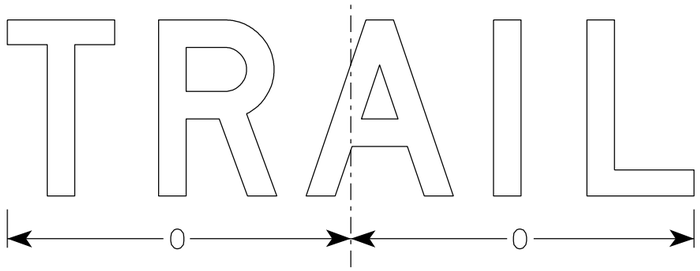
R11-2

NOTES

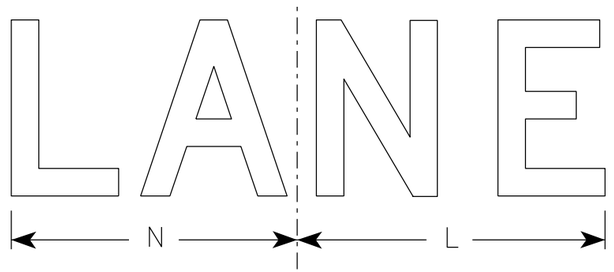
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



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	15 5/8												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	15 5/8												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	15 5/8												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	15 5/8												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	15 5/8												10.0

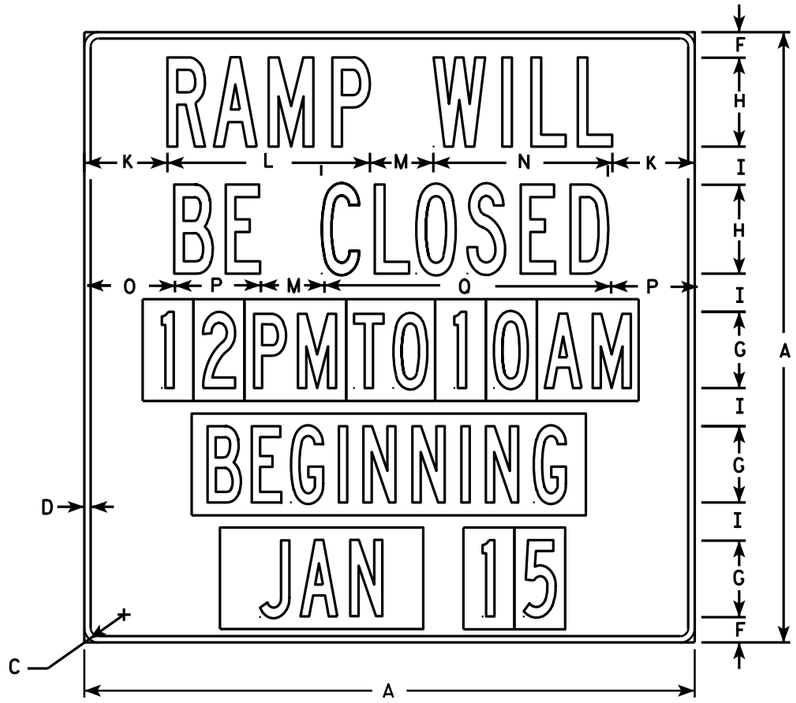
STANDARD SIGN
R11-2

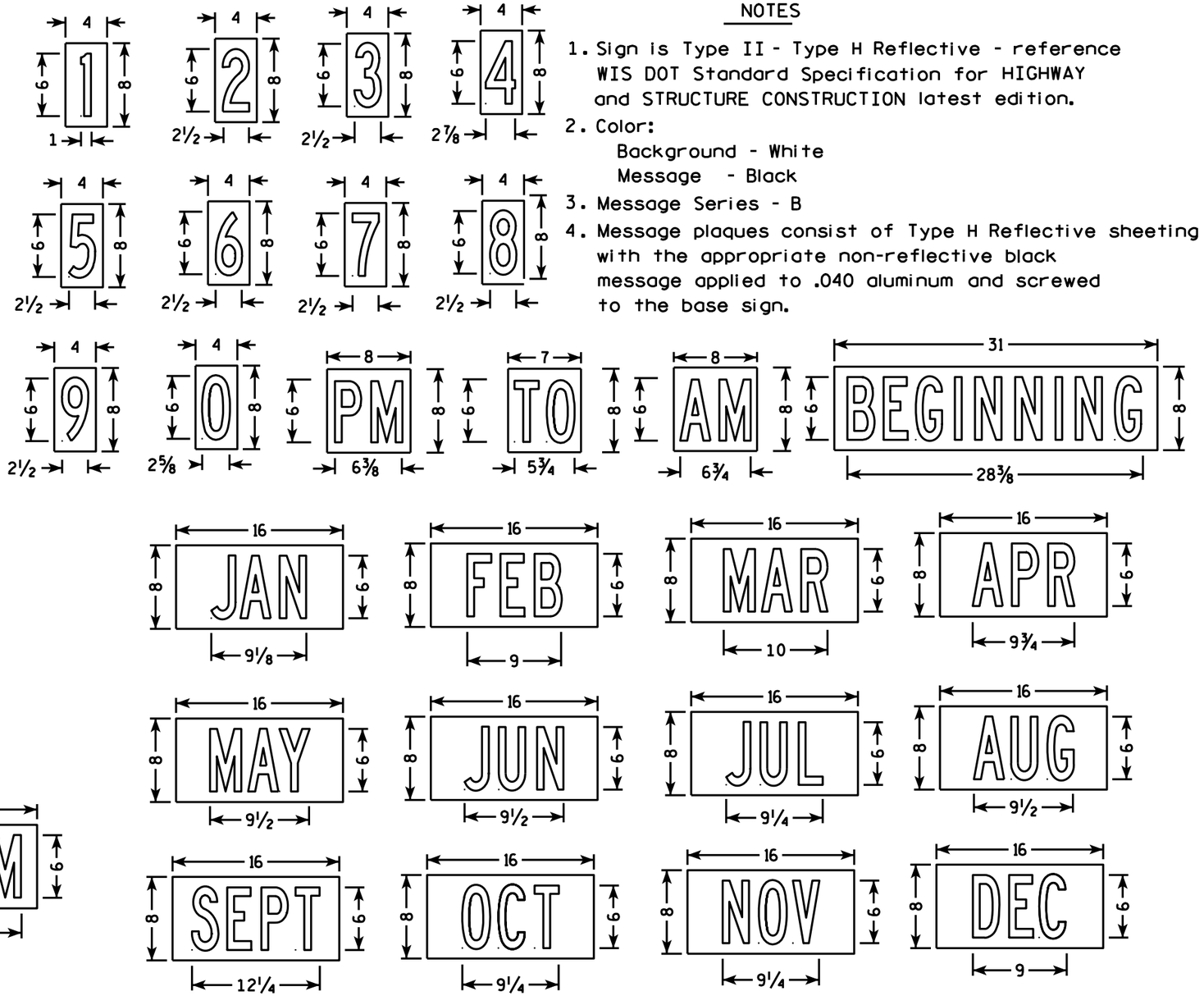
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 422 E





NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - B
4. Message plaques consist of Type H Reflective sheeting with the appropriate non-reflective black message applied to .040 aluminum and screwed to the base sign.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	1/2		2	6	7	3		6 1/2	15 7/8	5	14 1/8	6 7/8	6 3/4	22 1/2										16.0
2M	48		2 1/4	1/2		2	6	7	3		6 1/2	15 7/8	5	14 1/8	6 7/8	6 3/4	22 1/2										16.0
3																											
4																											
5																											

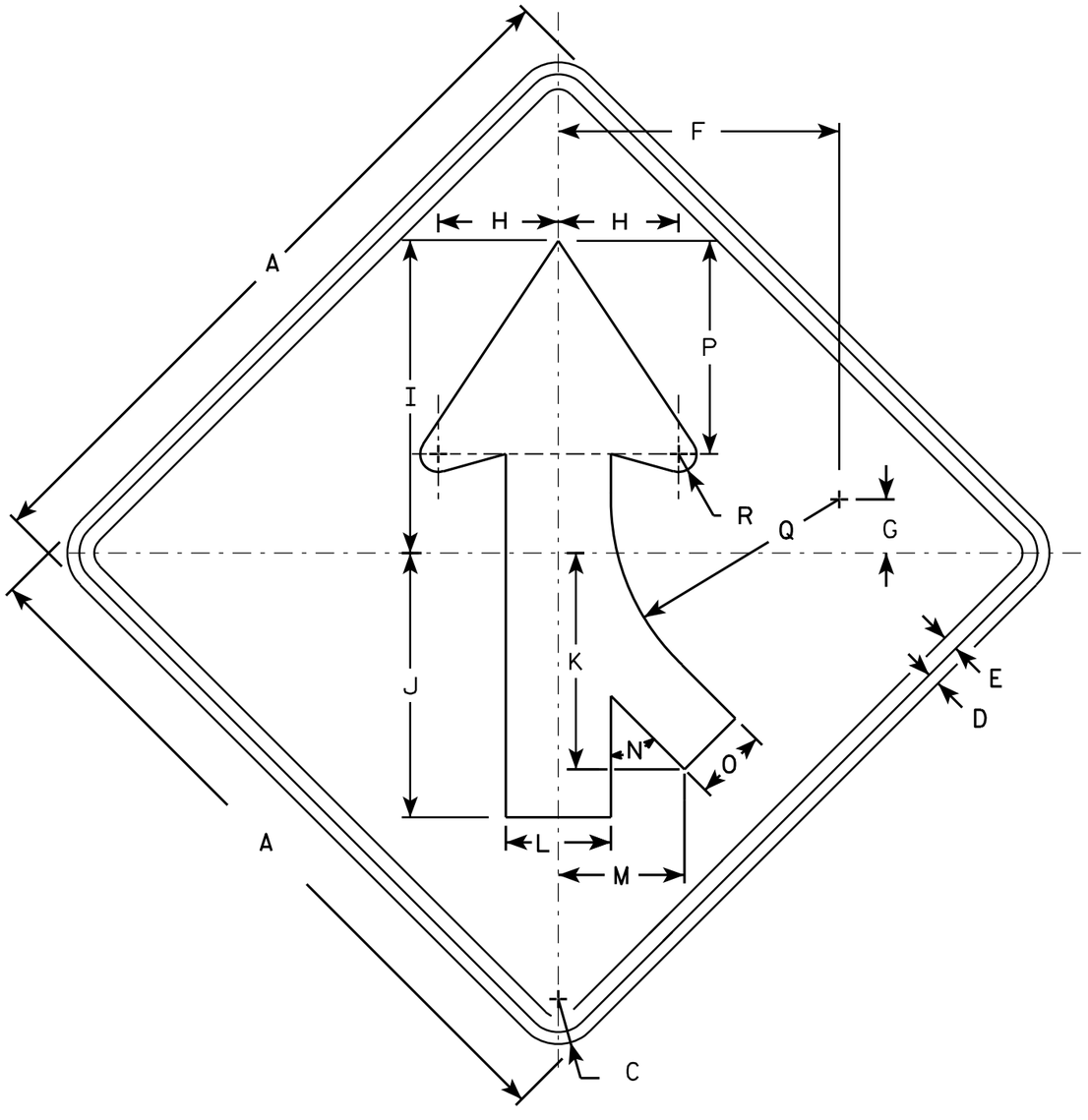
STANDARD SIGN
R11-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-51.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 423	E



W4-1 R

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. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 5/8	2 1/2	5	13	11	9	4 3/8	5 1/4	45°	3	8 7/8	9 1/2	3/4									6.25
2S	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2M	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
3	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

STANDARD SIGN
W4-1

WISCONSIN DEPT OF TRANSPORTATION

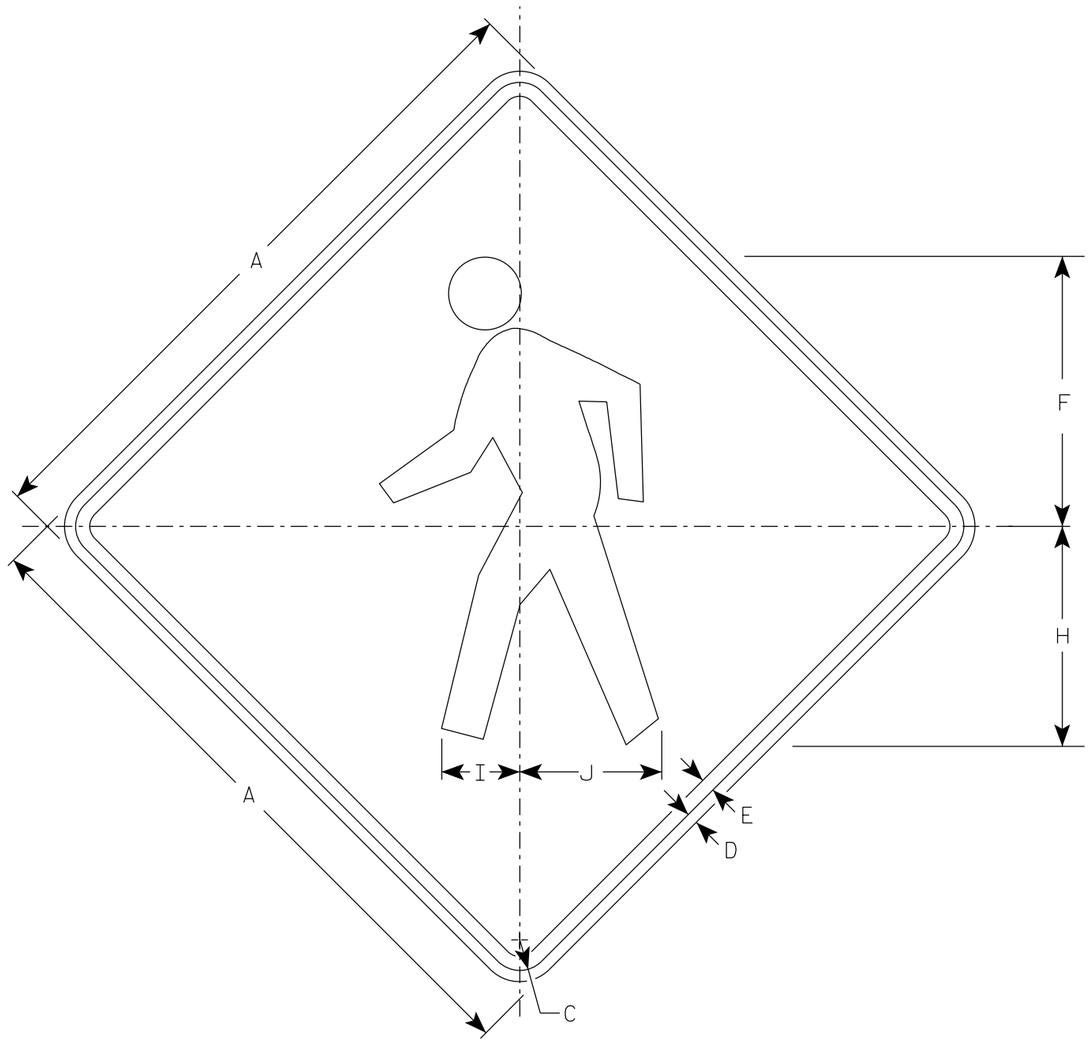
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 424	E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black



W11-2

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	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																											

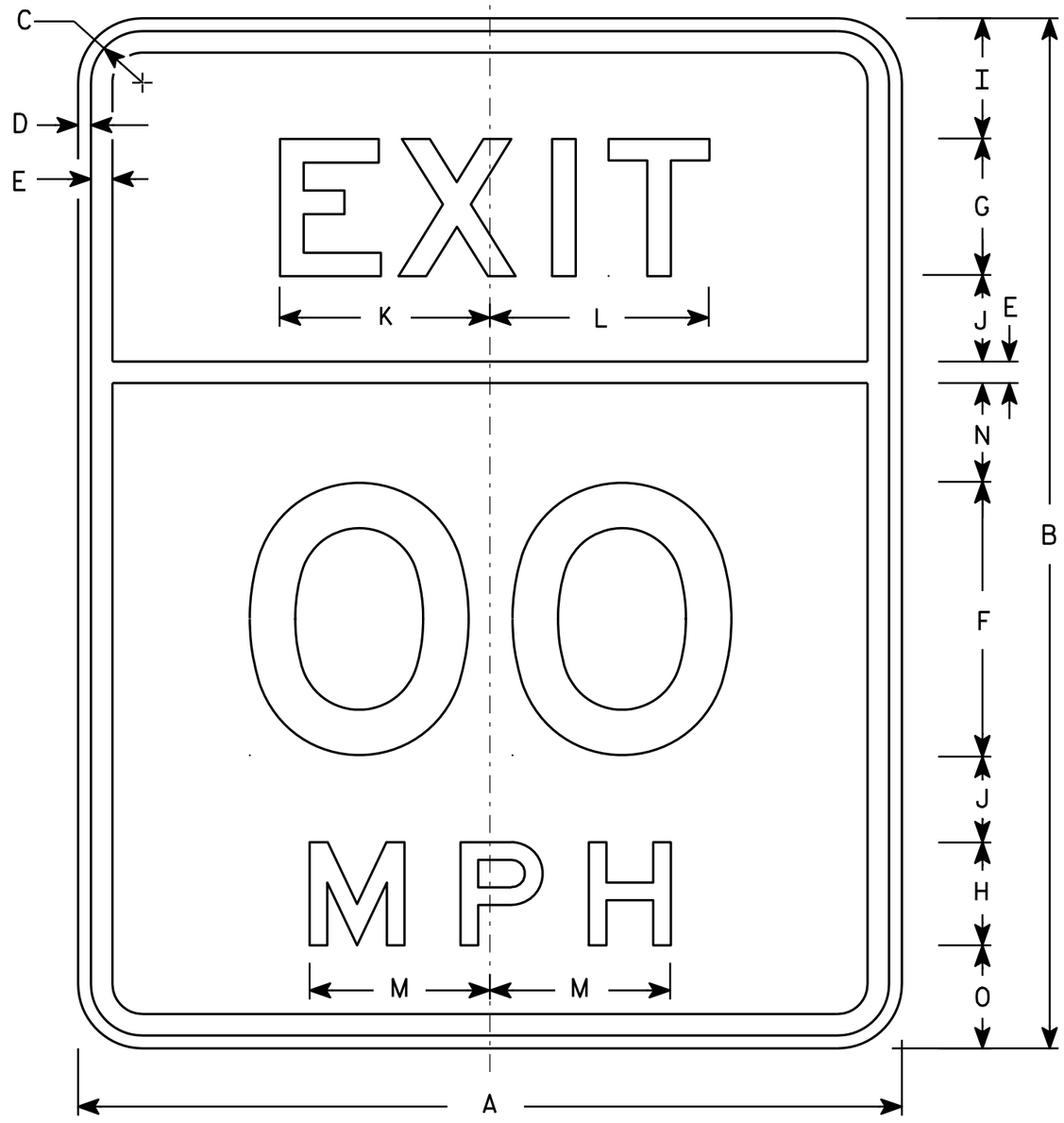
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/8/2020 PLATE NO. W11-2.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 425 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 - 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 space about centerline 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																											
2S	24	30	1 1/2	3/8	5/8	8	4	3	3 1/2	2 1/2	6 1/8	6 3/8	5 1/4	2 7/8	3												5.0
2M	24	30	1 1/2	3/8	5/8	8	4	3	3 1/2	2 1/2	6 1/8	6 3/8	5 1/4	2 7/8	3												5.0
3	36	48	2 1/4	5/8	7/8	12	6	4	6	4	9 1/4	9 1/2	7 1/8	5 1/8	6												12.0
4	36	48	2 1/4	5/8	7/8	12	6	4	6	4	9 1/4	9 1/2	7 1/8	5 1/8	6												12.0
5	48	60	2 1/4	3/4	1	16	8	6	7	5	12 1/4	12 3/4	10 5/8	5 3/4	6												20.0

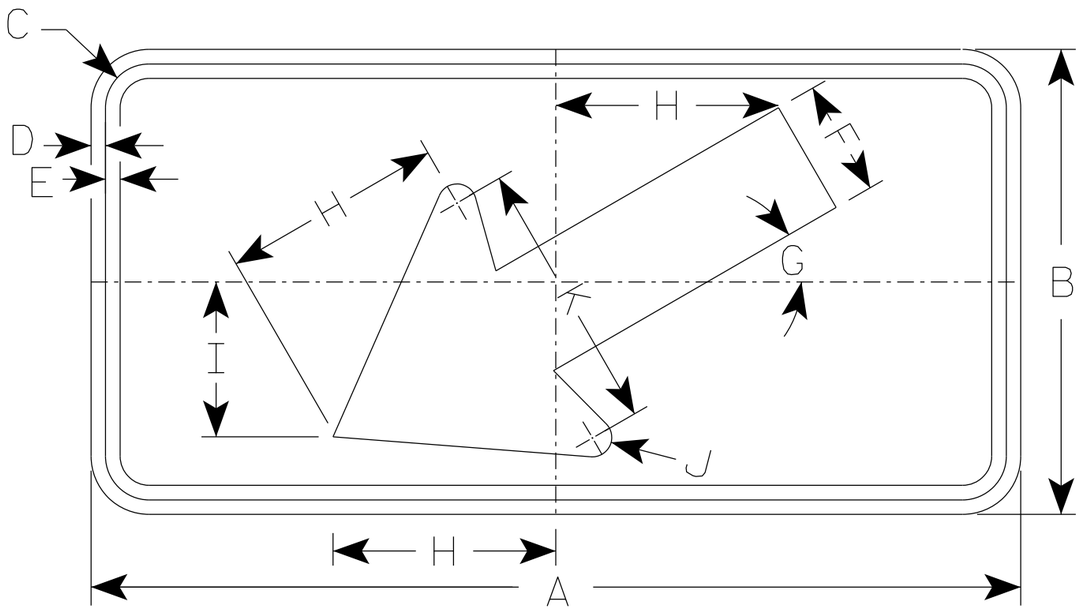
STANDARD SIGN
W13-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-2.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 426 | E



W16-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W16-7R is the same as W16-7L except the arrow is reversed along the vertical centerline.

* For 36" x 36" Warning Signs, use 30" x 18" W16-7L signs.
* For 48" x 48" Warning Signs, use 48" x 24" W16-7L signs.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	3	30°	5 3/4	4	1/2	7																2.0
* 2M	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
* 3	30	18	1 1/8	3/8	1/2	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
* 4	48	24	1 3/8	1/2	5/8	6	30°	11 1/2	8	1	14																8.0
5																											

STANDARD SIGN
W16-7

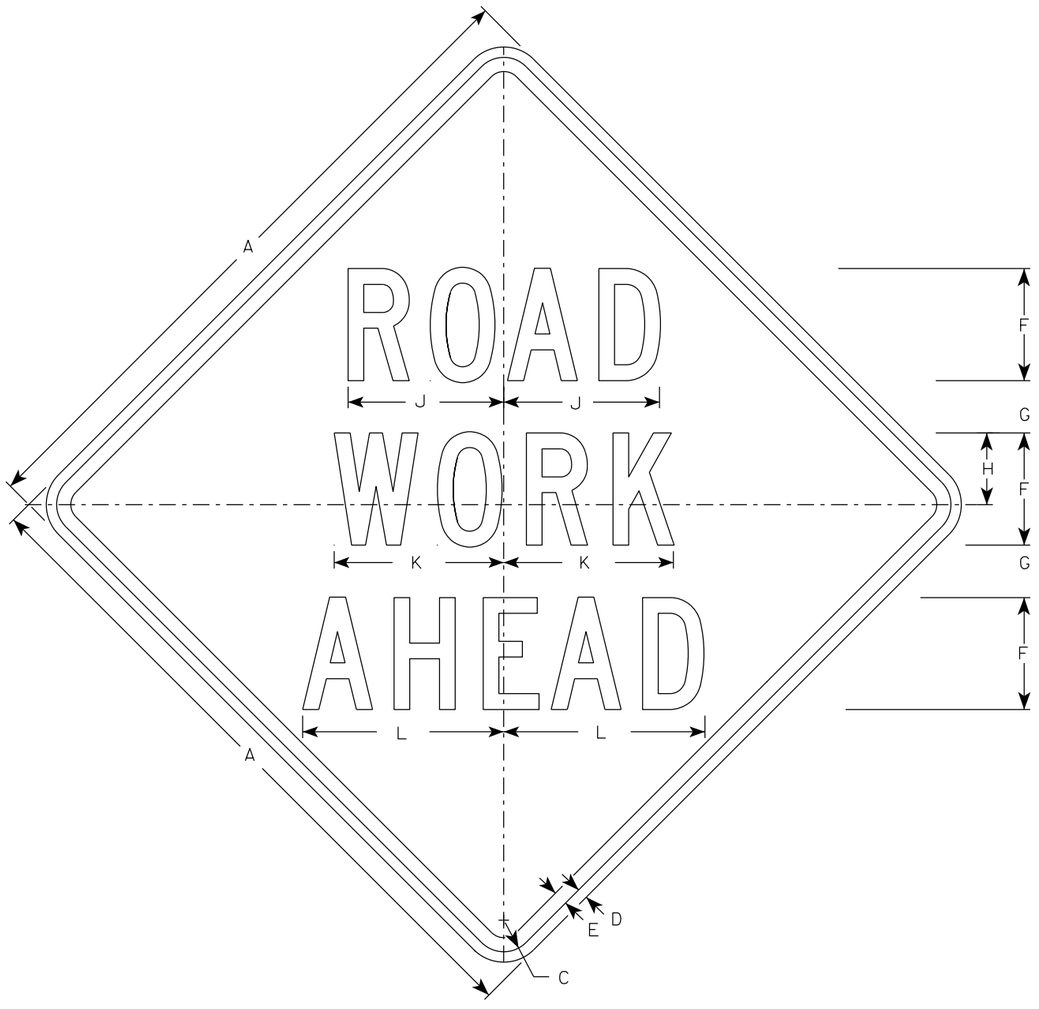
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

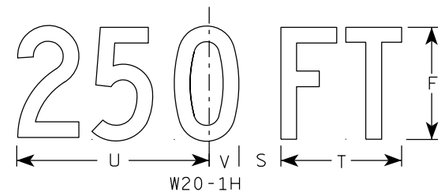
DATE 3/16/2021 PLATE NO. W16-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 427	E

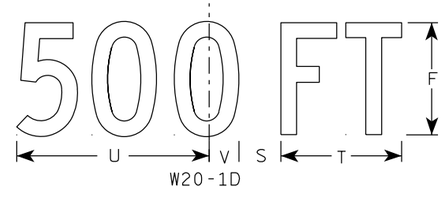
7



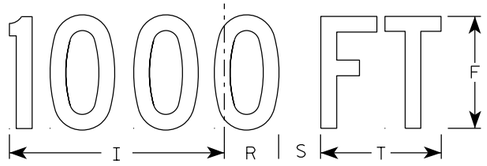
W20-1A



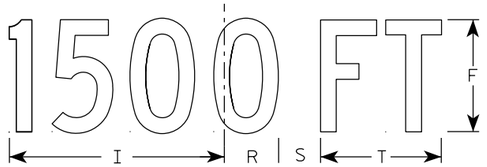
W20-1H



W20-1D



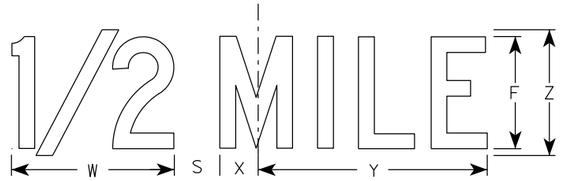
W20-1C



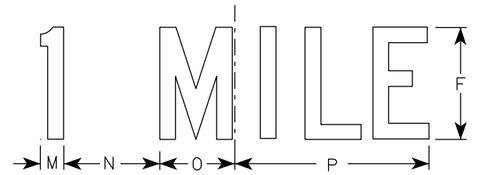
W20-1B

NOTES

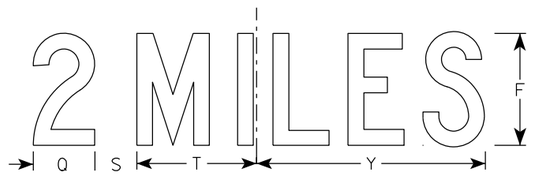
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

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 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	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

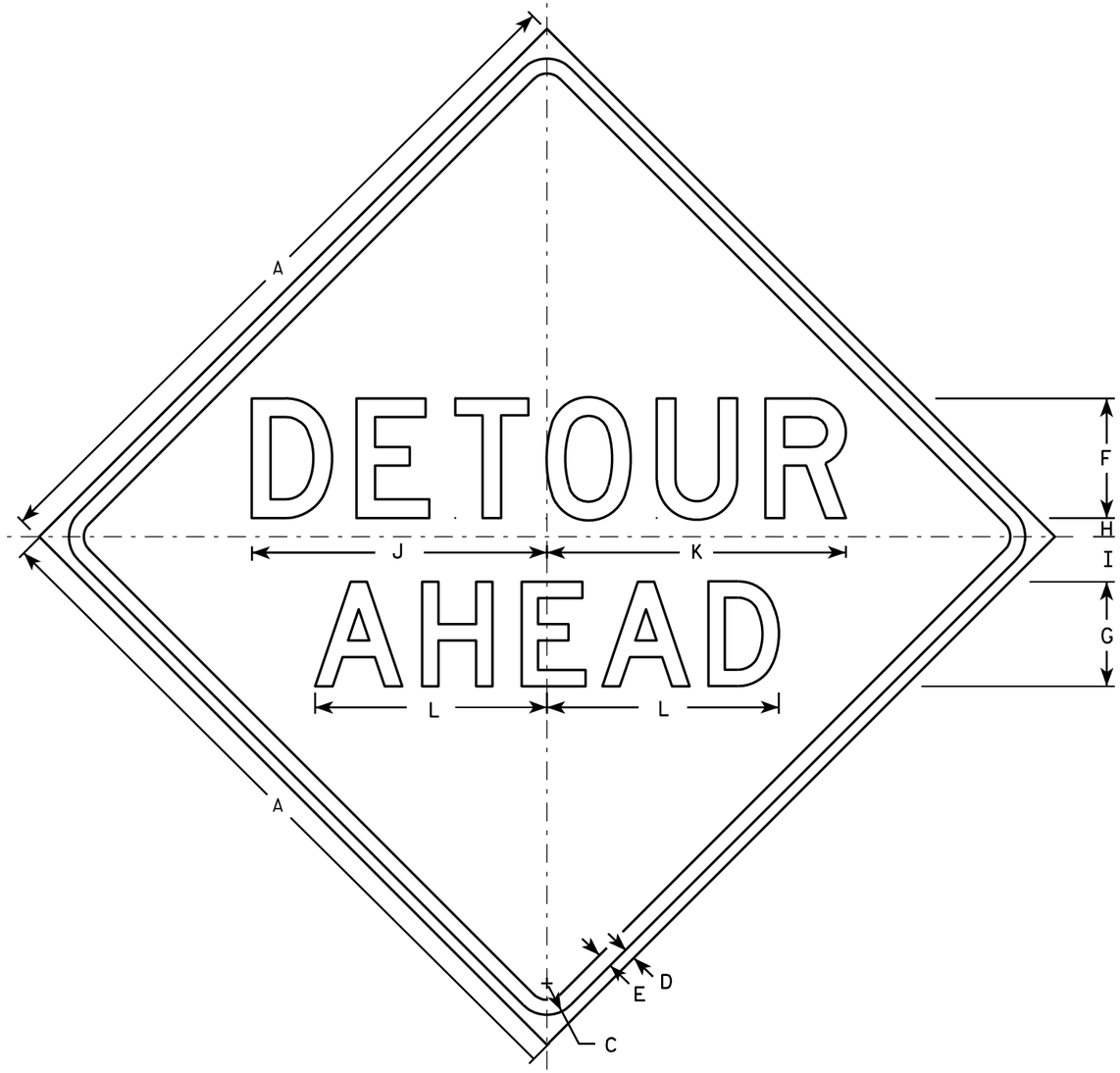
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

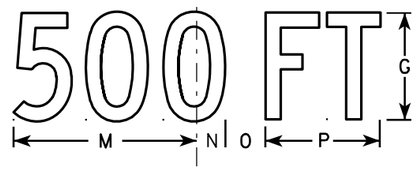
WISDOT/CADDS SHEET 42

7

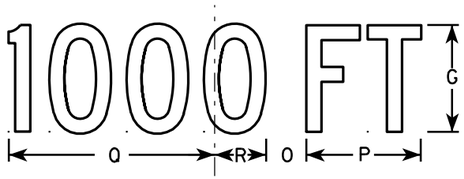
7



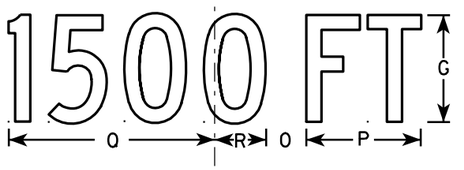
W20-2A



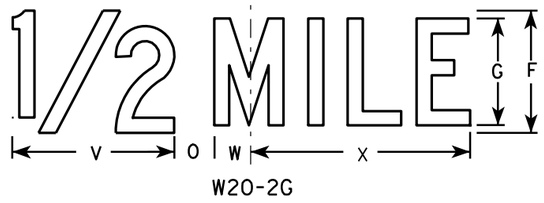
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

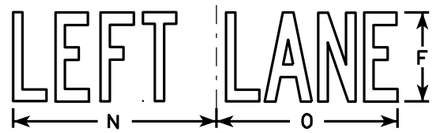
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

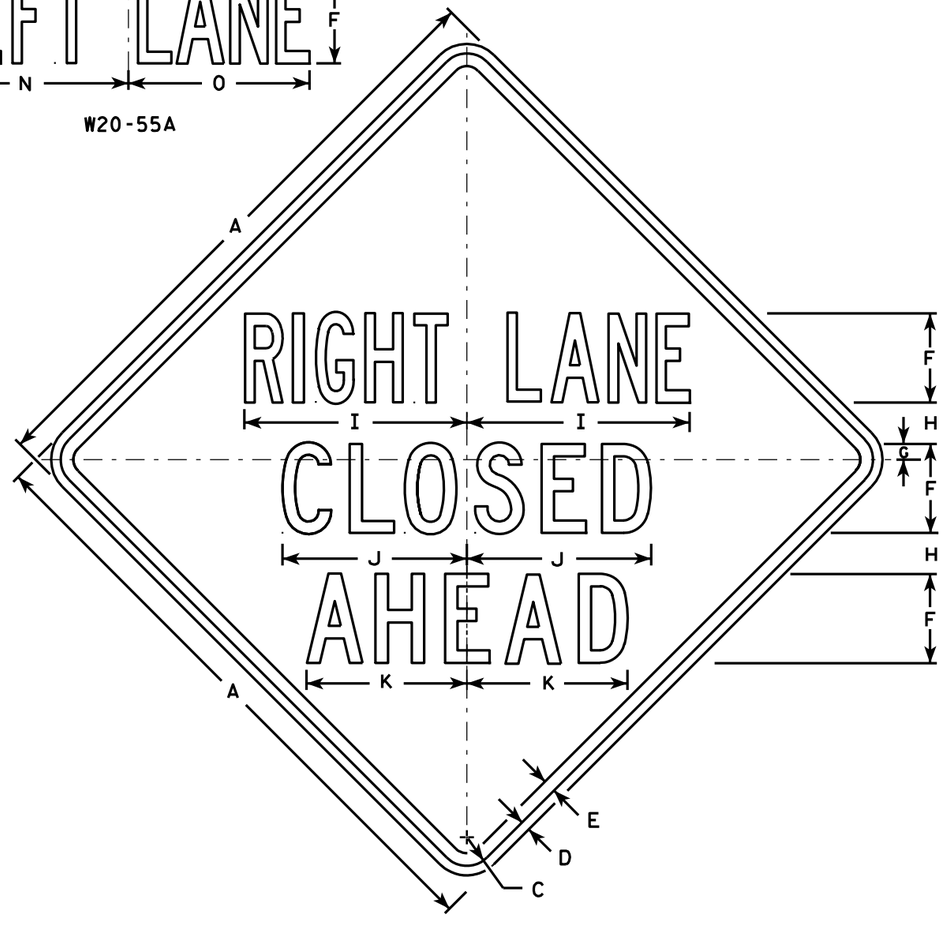
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 429 | E



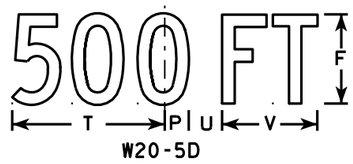
W20-56A



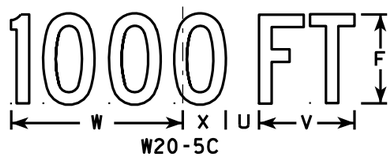
W20-55A



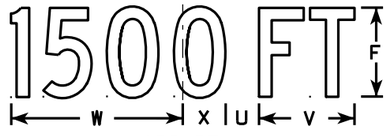
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

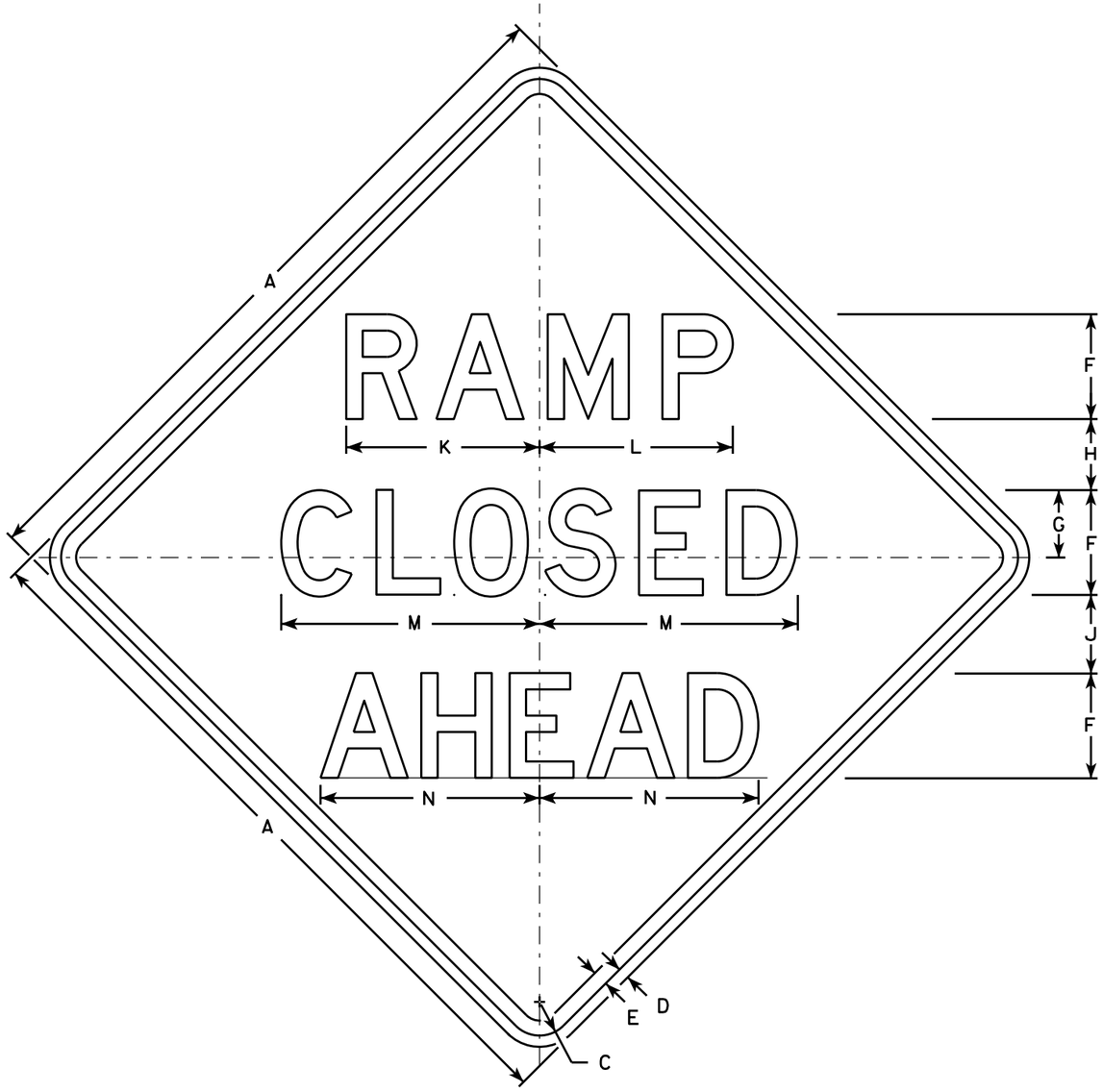
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

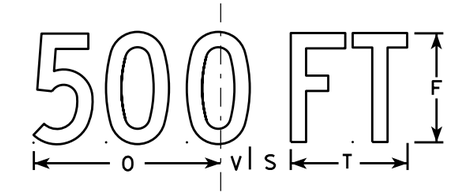
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 430	E

7

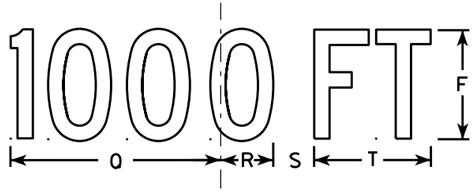
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



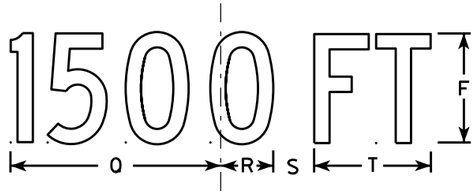
W20-53A



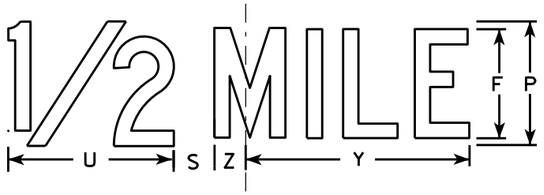
W20-53D



W20-53C



W20-53B



W20-53G



W20-53F

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	9 1/4	9 1/4	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	12 7/8	12 7/8	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	12 7/8	12 7/8	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	12 7/8	12 7/8	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	12 7/8	12 7/8	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	12 7/8	12 7/8	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
W20-53A,B,C,D,F,G

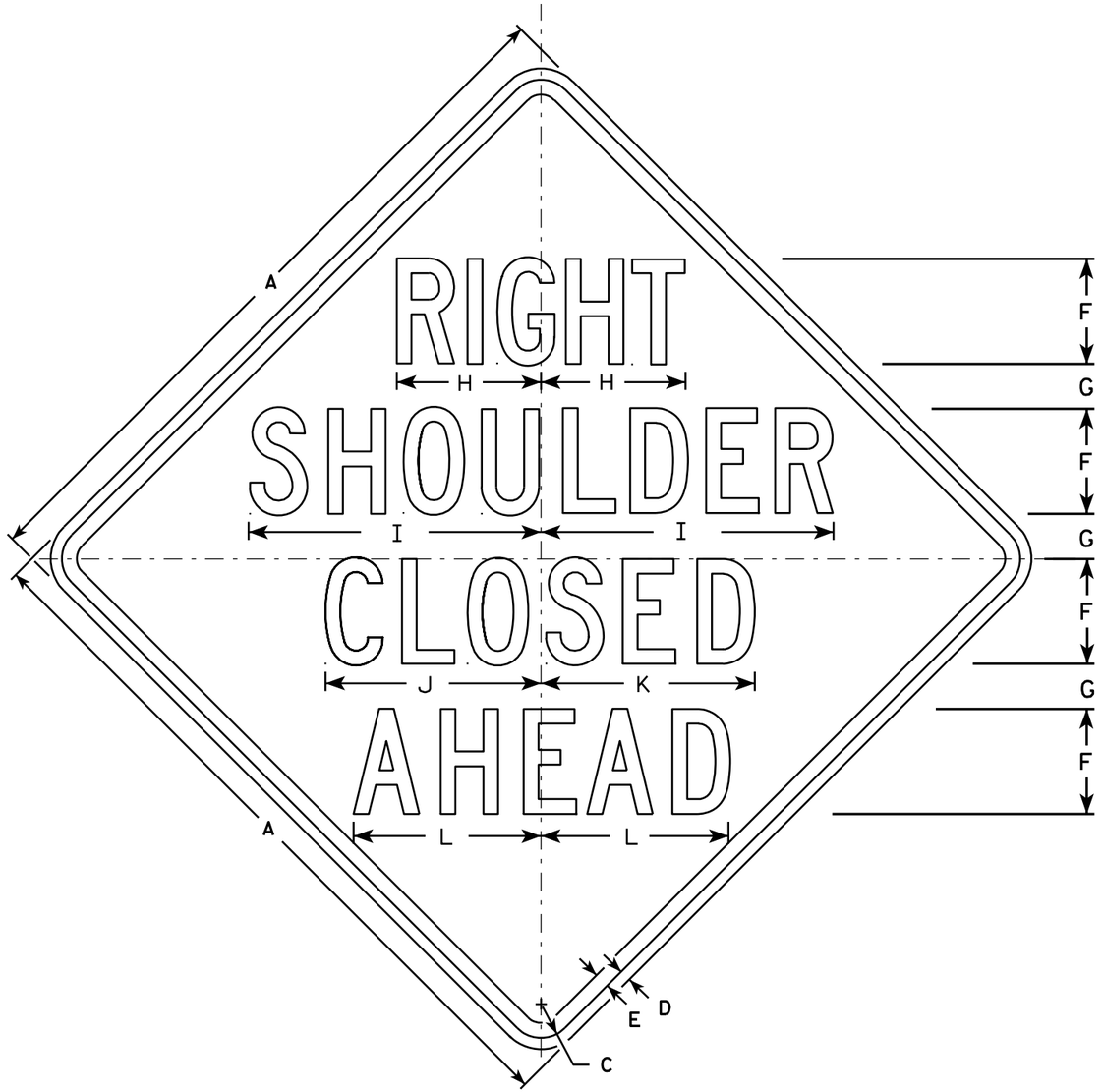
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

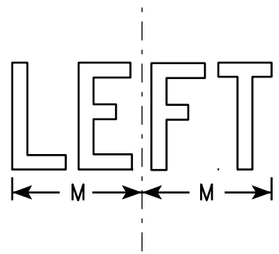
DATE 5/27/15 PLATE NO. W20-53.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W2053.DGN PLOT DATE : 27-MAY-2015 19:40 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.729210:1.000000
WISDOT/CADDS SHEET 42



W21-5B



W21-5BL

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 1/4	7 3/8	14 1/4	10 1/4	10 1/8	8 7/8	6 1/4														9.0
2S	48		2 1/4	3/4	1	7	3	9 5/8	19 1/2	14 3/8	14 1/4	12 1/2	8 1/2														16.0
2M	48		2 1/4	3/4	1	7	3	9 5/8	19 1/2	14 3/8	14 1/4	12 1/2	8 1/2														16.0
3	48		2 1/4	3/4	1	7	3	9 5/8	19 1/2	14 3/8	14 1/4	12 1/2	8 1/2														16.0
4	48		2 1/4	3/4	1	7	3	9 5/8	19 1/2	14 3/8	14 1/4	12 1/2	8 1/2														16.0
5	48		2 1/4	3/4	1	7	3	9 5/8	19 1/2	14 3/8	14 1/4	12 1/2	8 1/2														16.0

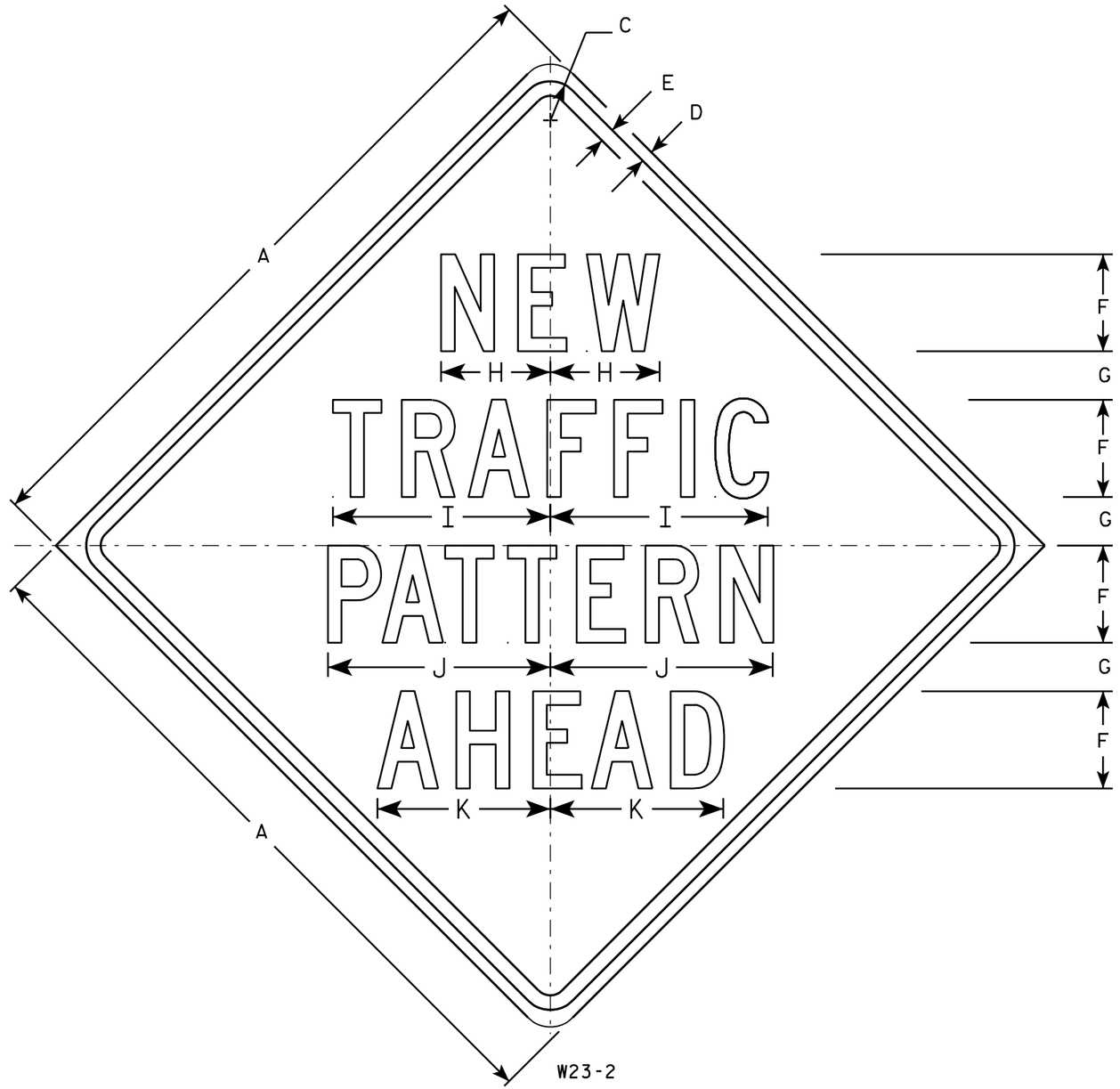
STANDARD SIGN
W21-5B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-5B.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 432	E



NOTES

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

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

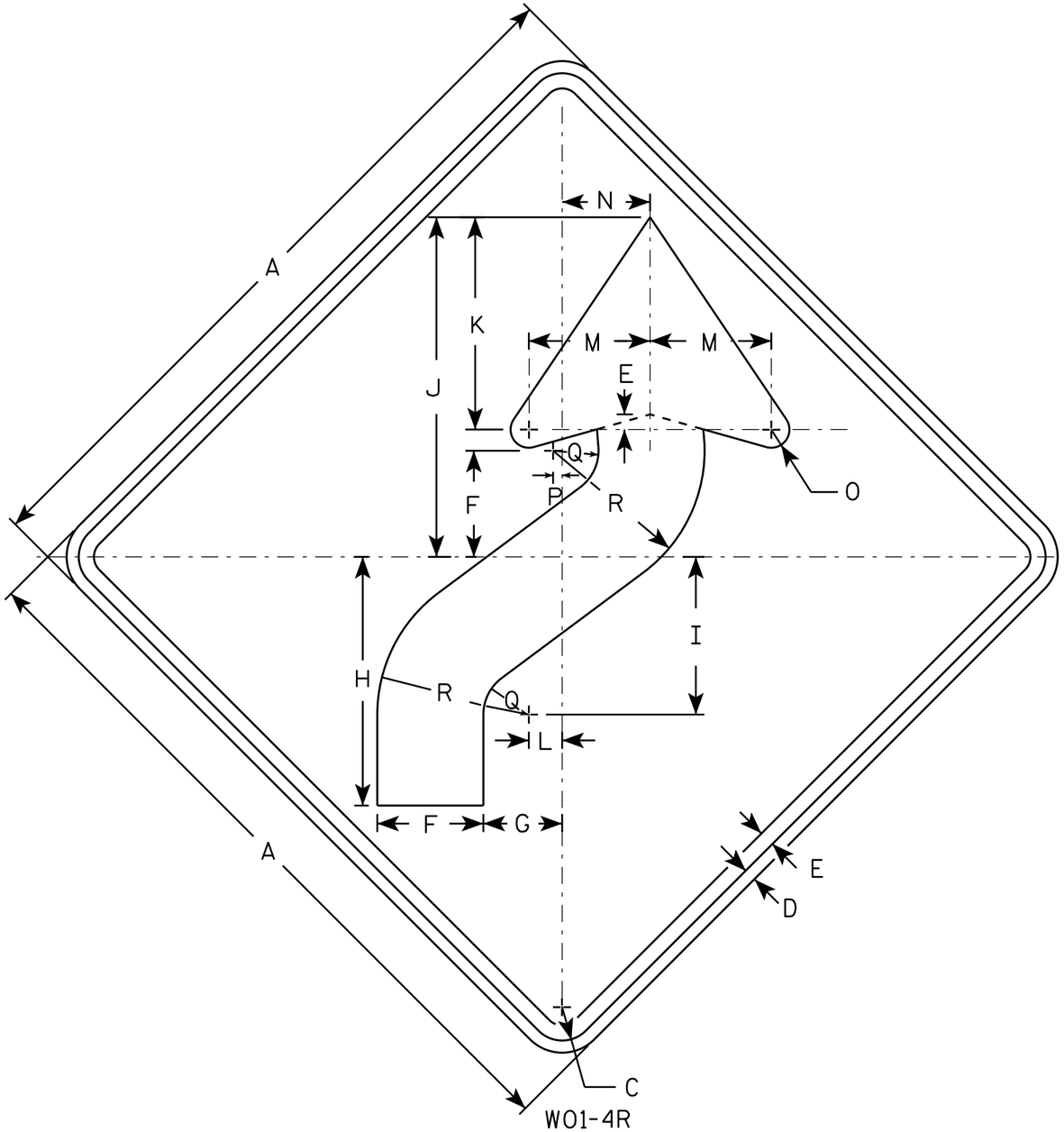
STANDARD SIGN
W23-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W23-2.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 433 | E



W01-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
W01-4

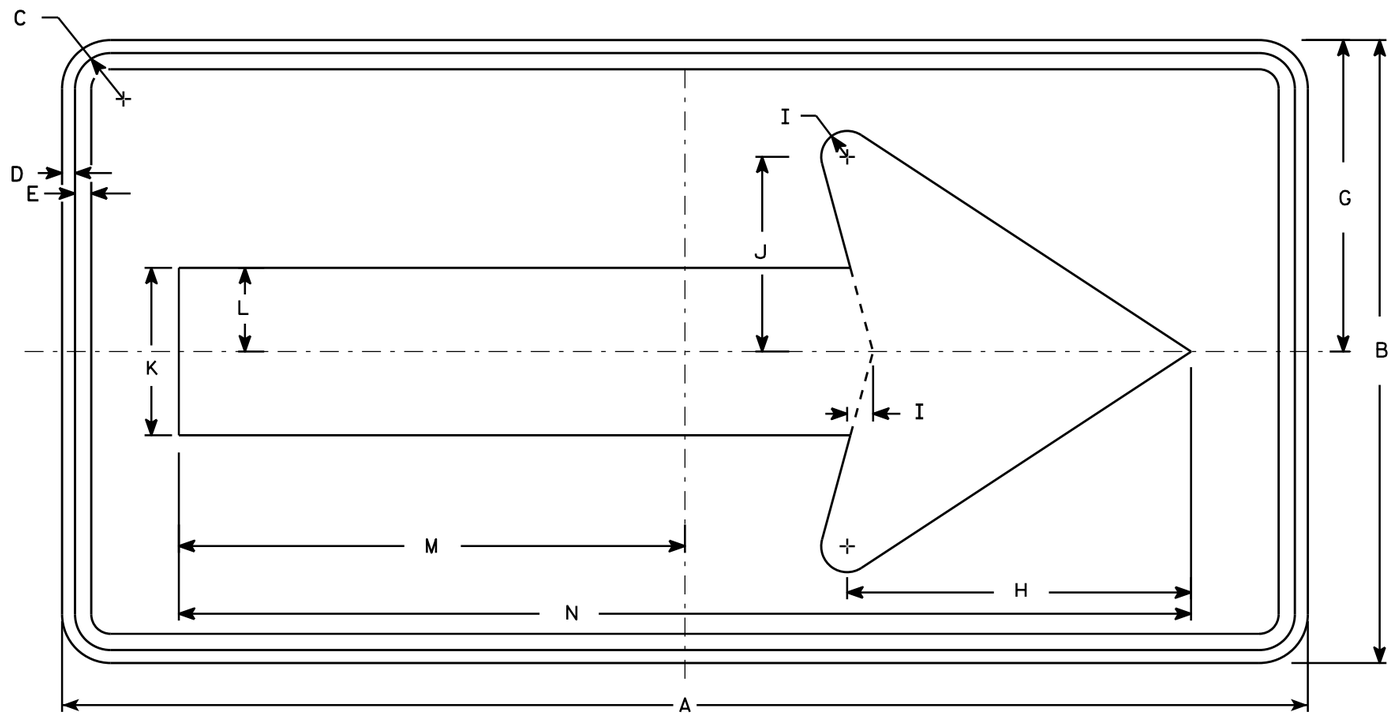
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000 WISDOT/CADDS SHEET 42



W01-6

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

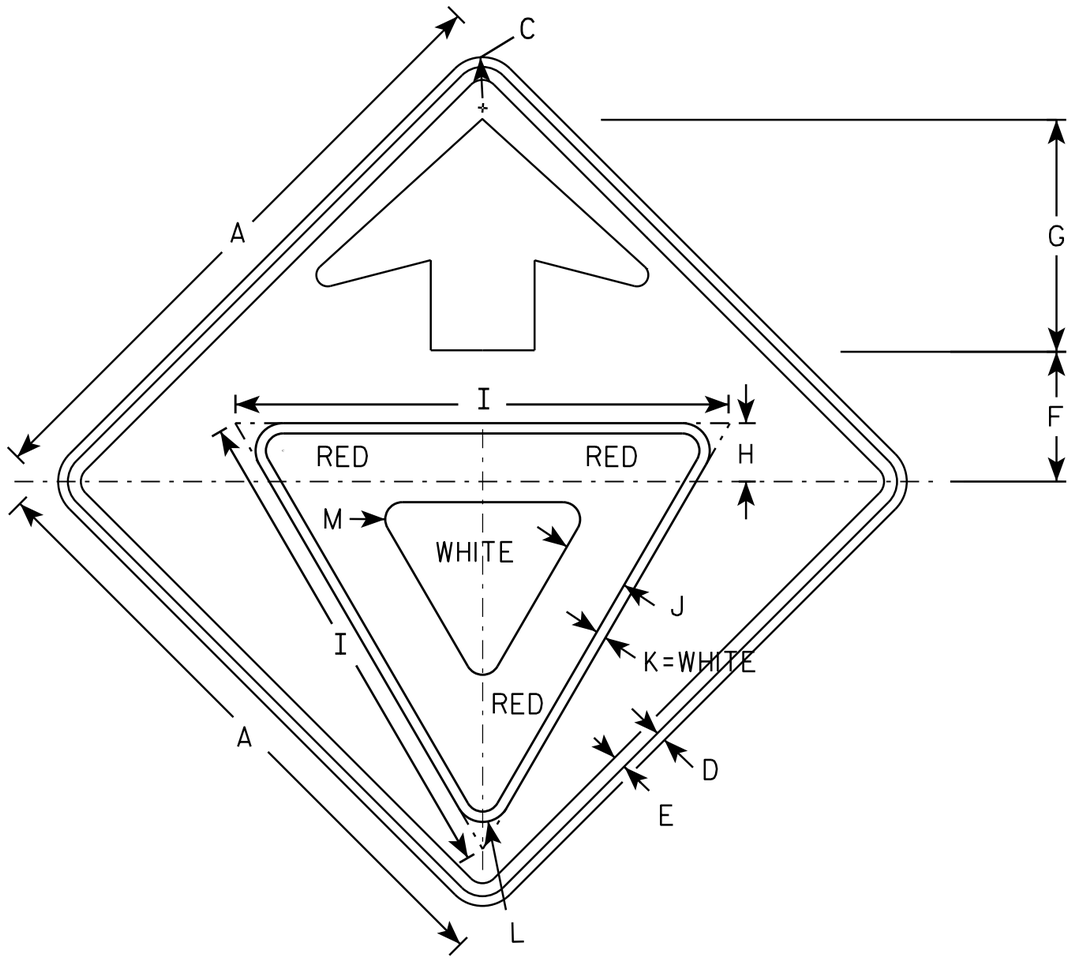
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE W01-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

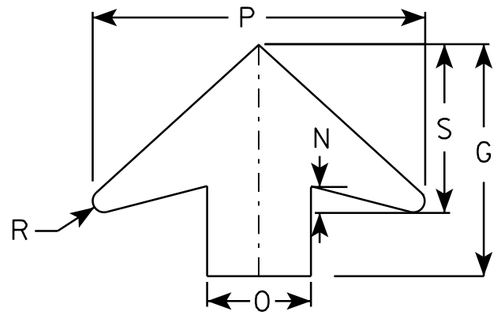
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W03-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - ORANGE
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2S	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
2M	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
3	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W03-2

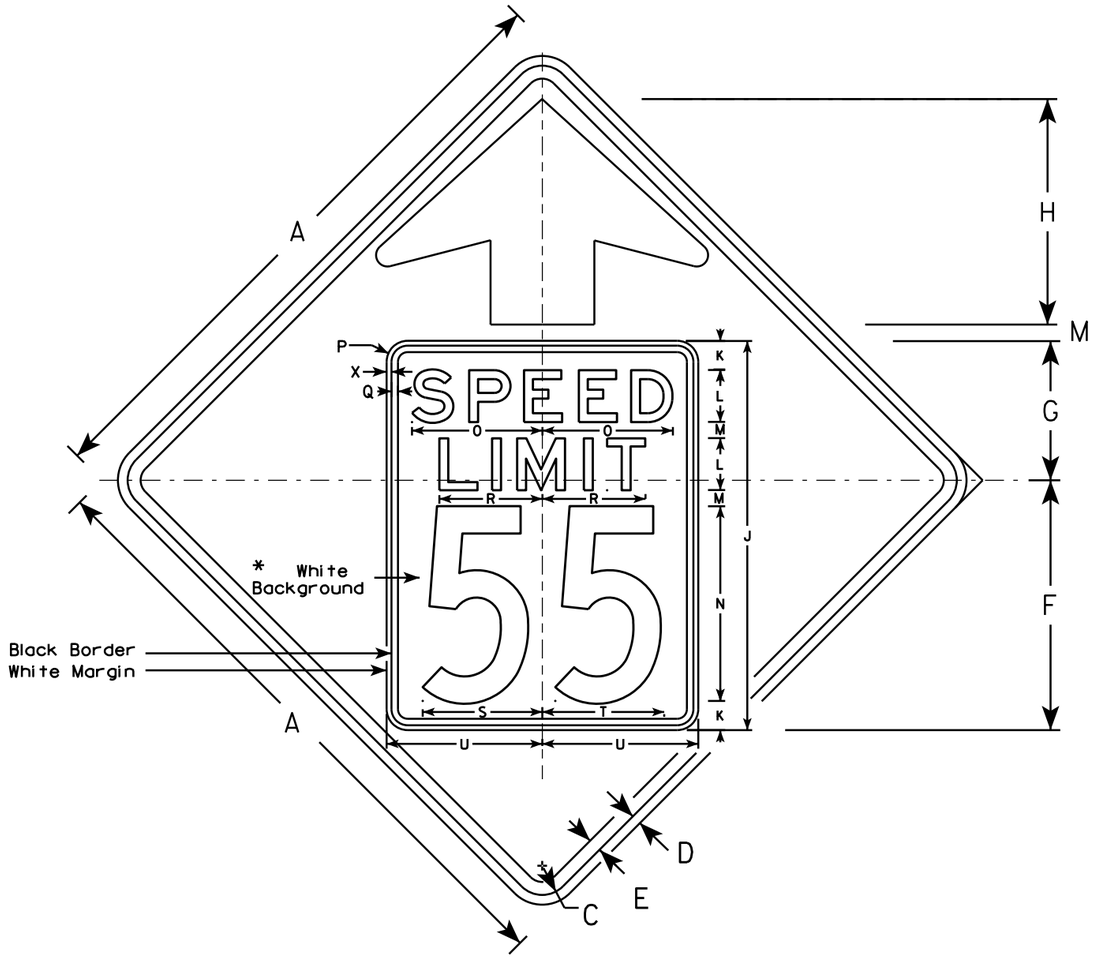
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W03-2.1

PROJECT NO:

SHEET NO: E

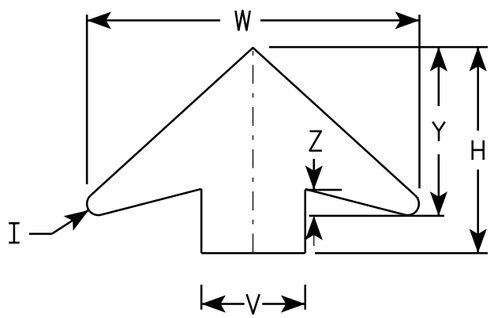


W03-5

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 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	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
2S	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
2M	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
3	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
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
W03-5

WISCONSIN DEPT OF TRANSPORTATION

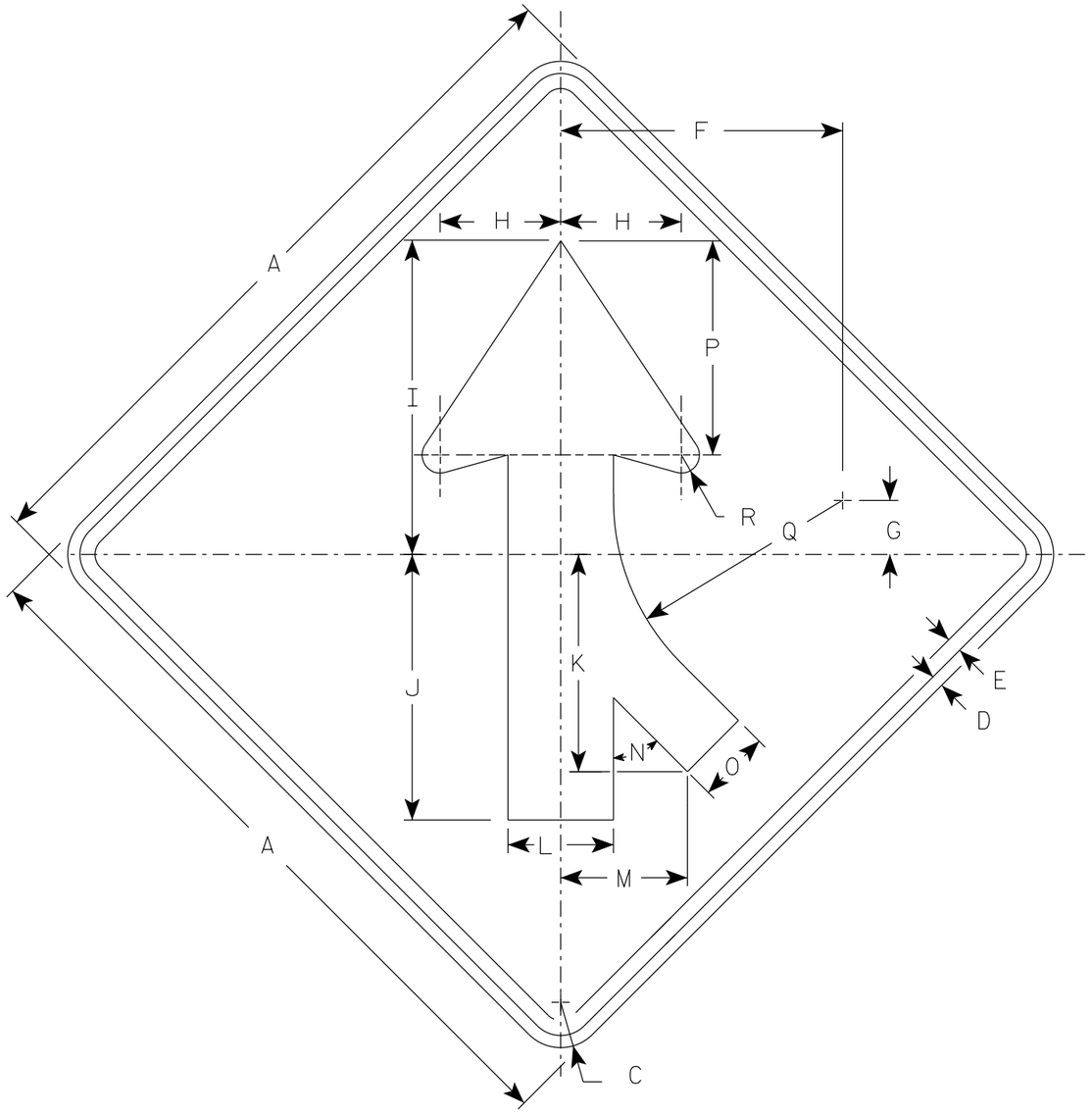
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W03-5.1

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W035.DGN PLOT DATE : 20-NOV-2013 11:32 PLOT BY : mscsja

WISDOT/CADDS SHEET 42



W04-1R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-1L is the same as W04-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2S	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
2M	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
3	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

STANDARD SIGN
W04-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2021 PLATE NO. W04-1.2

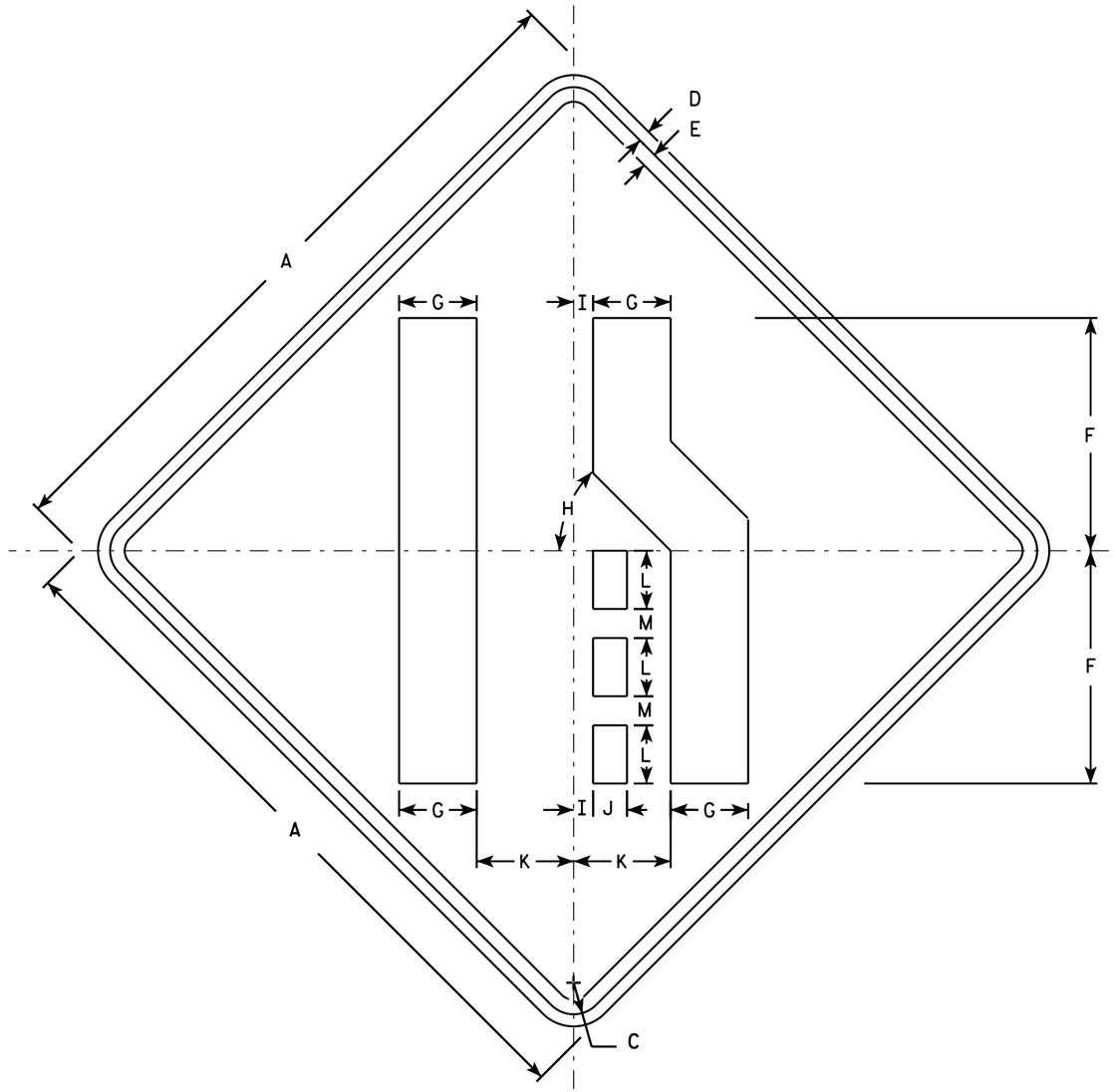
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W041.dgn PLOT DATE : 30-MAR 2021 8:25 PLOT BY : dotc4c PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

7

7



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

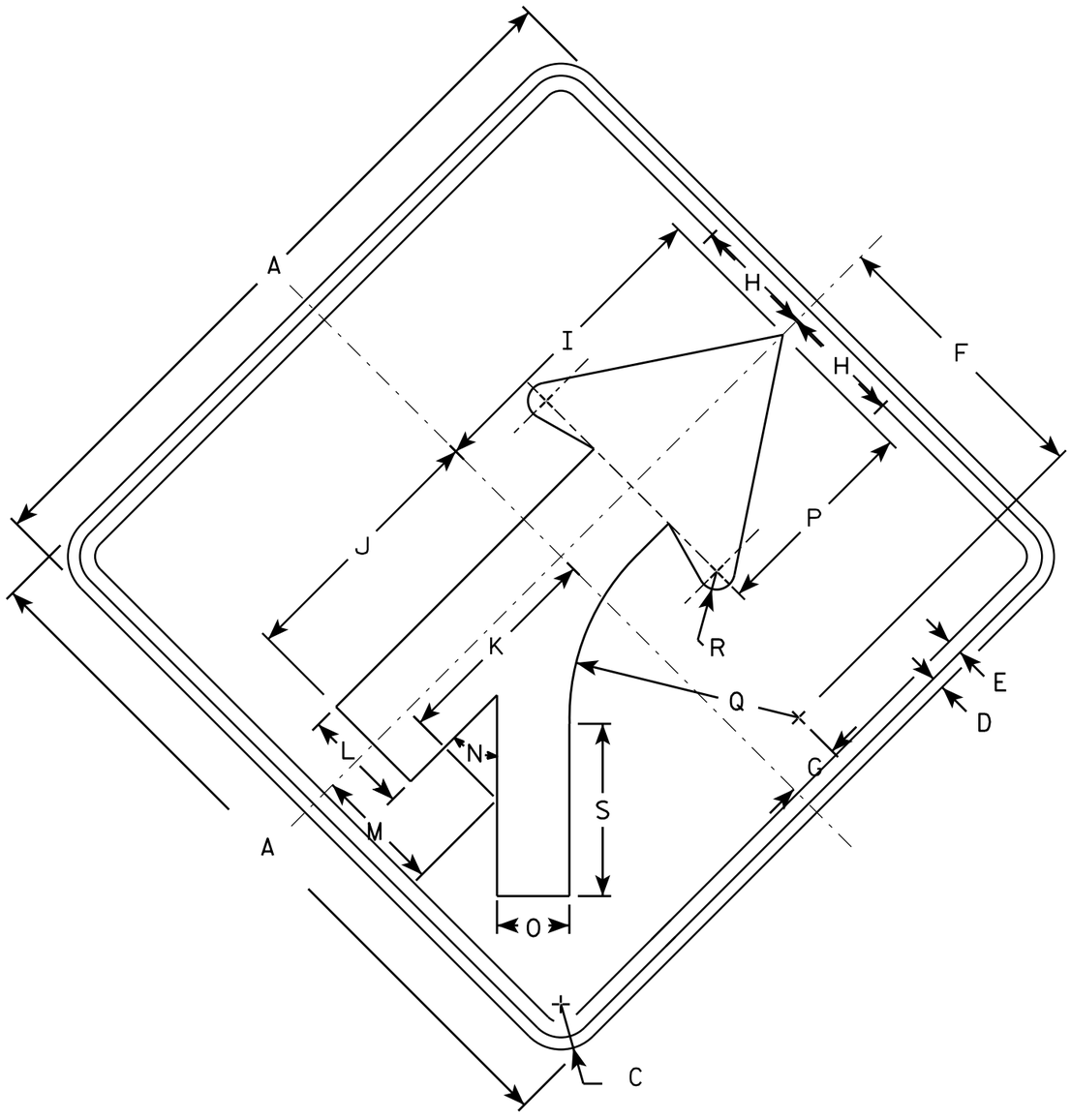
STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 439 W04-2.1

PROJECT NO: | SHEET NO: E



W04-5

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. 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	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8	8 1/2								9.0
2S	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4	11 3/8								16.0
2M	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4	11 3/8								16.0
3	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4	11 3/8								16.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4	11 3/8								16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4	11 3/8								16.0

STANDARD SIGN
W04-5

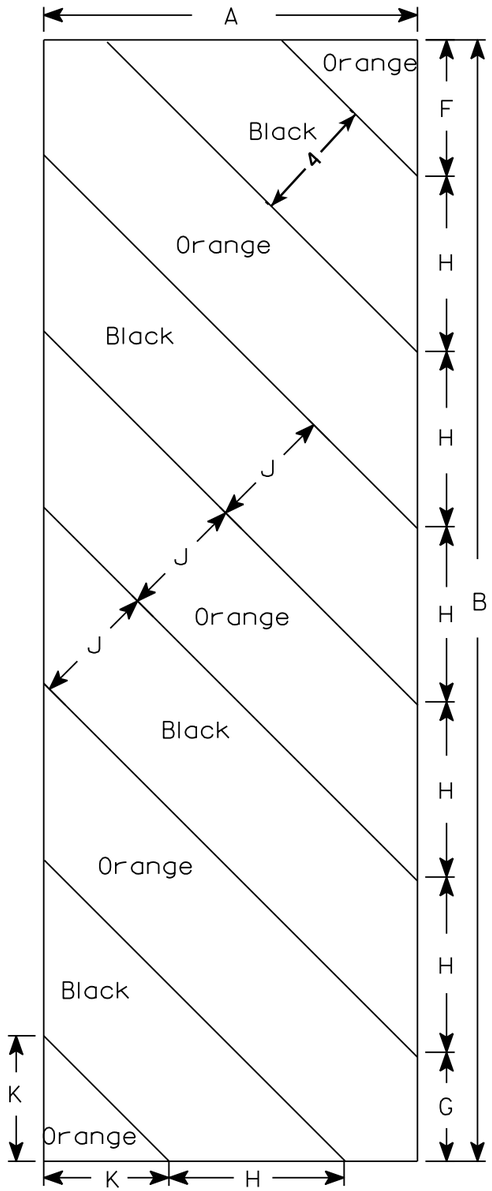
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

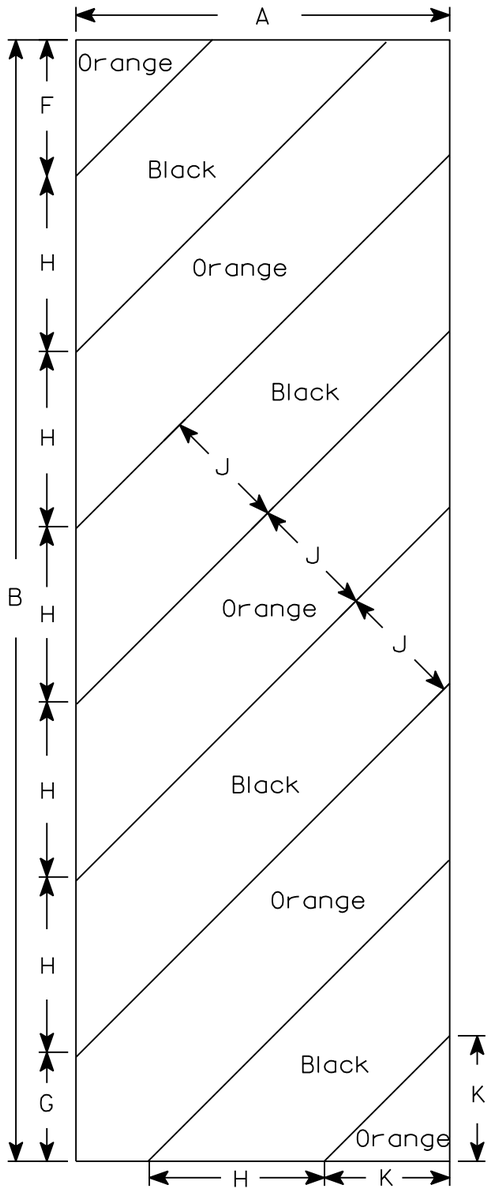
DATE 4/28/16 PLATE NO W04-5.1

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W045.DGN PLOT DATE : 28-APR-2016 13:30 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.080757:1.000000 WISDOT/CADDS SHEET 42



W05-52L



W05-52R

NOTES

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

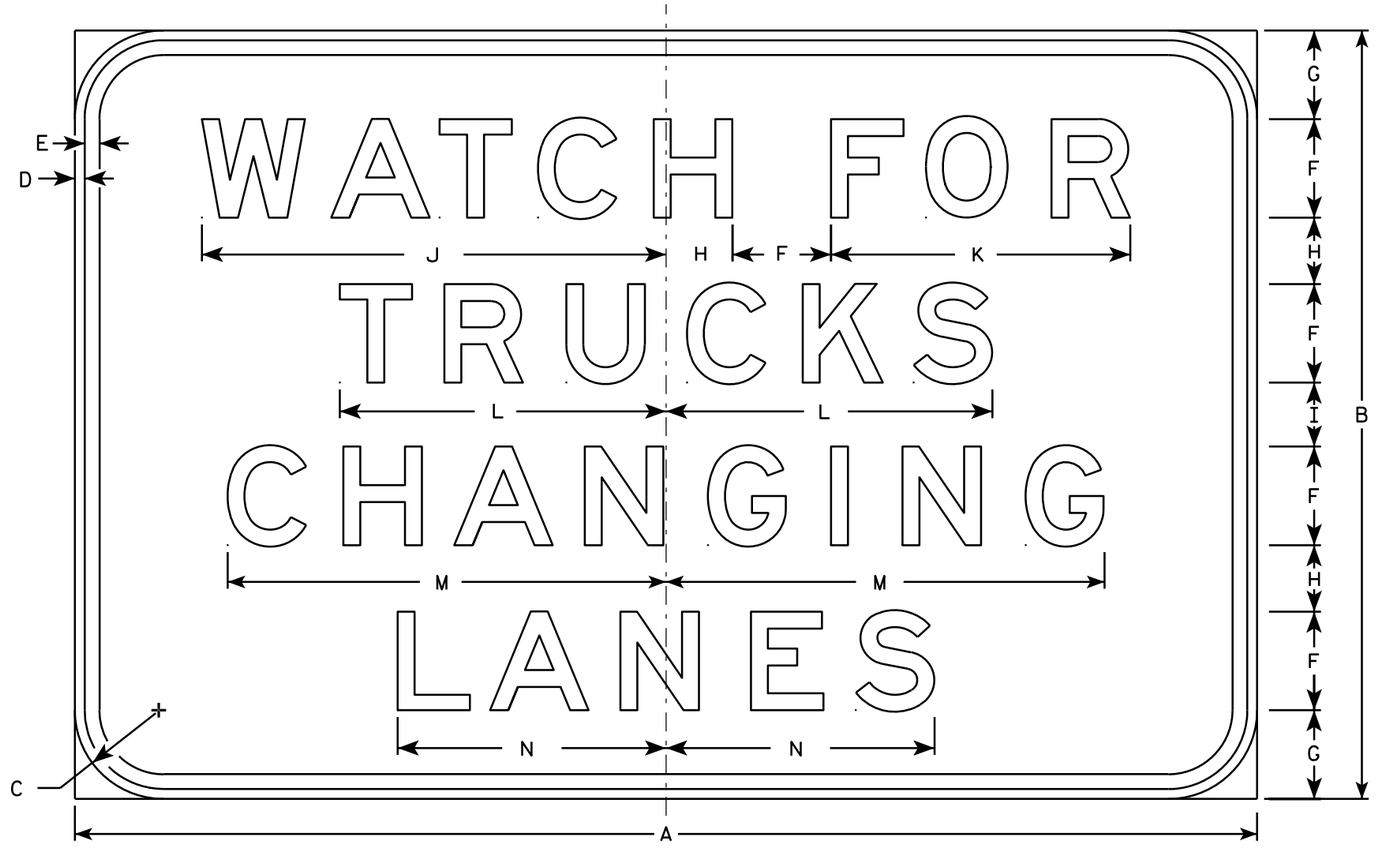
W05-52L & W05-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W05-52.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W7-61

NOTES

1. Sign is Type I- Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black Non-Reflective
3. Message Series - E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4																											
5	120	78	9	1	1 1/2	10	9	6 3/4	6 1/2	47 1/8	30 3/8	33 1/8	44 1/2	27 1/4													65.0

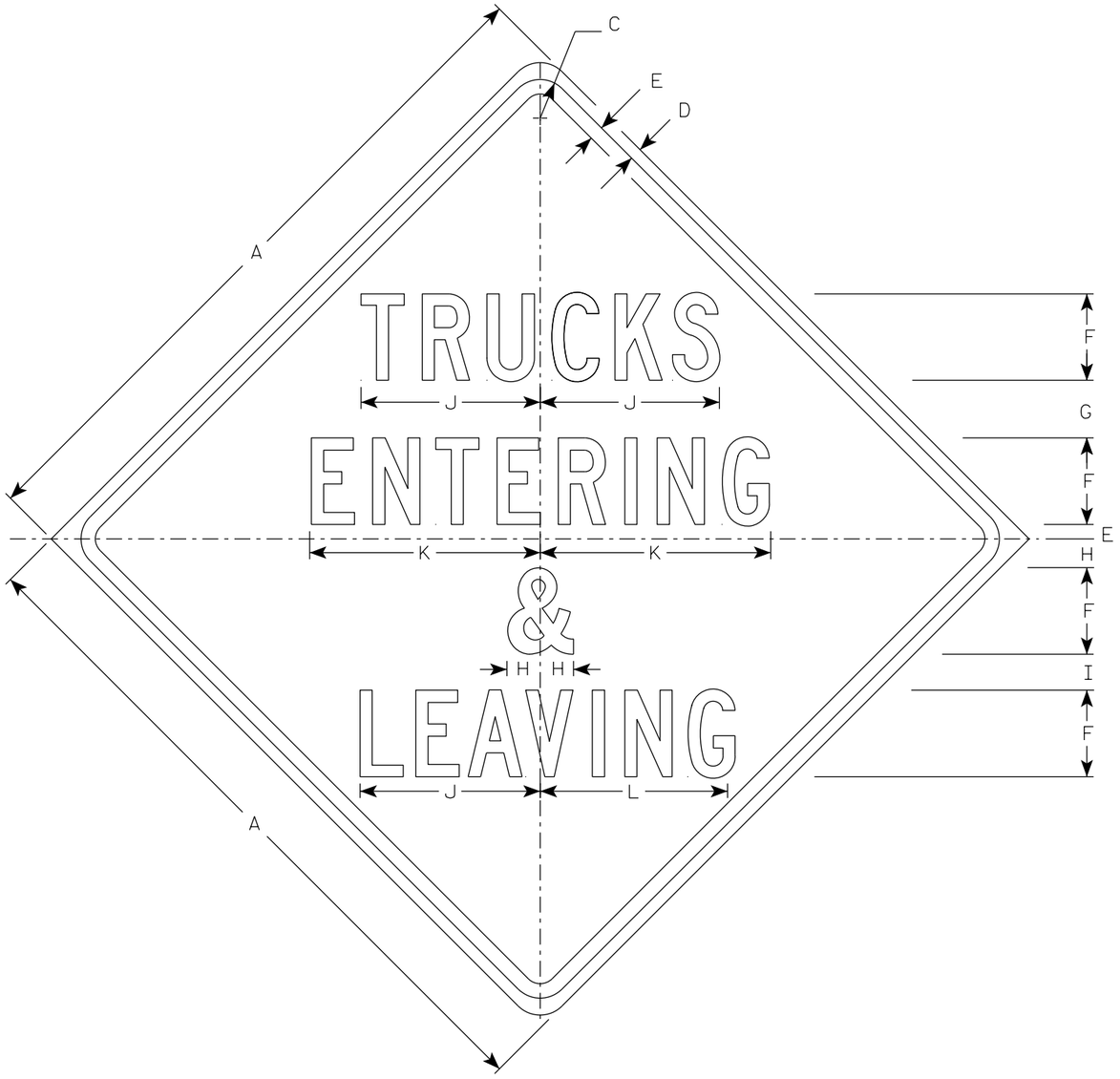
STANDARD SIGN
W7-61

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/14/13 PLATE NO. W7-61.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 442	E



W08-6A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	4 1/2	3	1 1/2	1 7/8	9 3/8	12	9 3/4															9
2S	48		2 1/4	3/4	1	6	4	2	2 1/2	12 1/2	16	13															16
2M	48		2 1/4	3/4	1	6	4	2	2 1/2	12 1/2	16	13															16
3	48		2 1/4	3/4	1	6	4	2	2 1/2	12 1/2	16	13															16
4	48		2 1/4	3/4	1	6	4	2	2 1/2	12 1/2	16	13															16
5	48		2 1/4	3/4	1	6	4	2	2 1/2	12 1/2	16	13															16

STANDARD SIGN
W08-6A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/15/2020 PLATE NO. W08-6A.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 443 E

PROJECT 1229-04-70

IH 43 - 1279+00 TO 1367+93 NB (STAGE 1)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1278+54.200	0.00	19	0	0	0	0	0	0
1279+00.000	45.80	19	0	33	0	33	0	33
1279+50.000	50.00	19	0	35	0	68	0	68
1280+00.000	50.00	19	0	35	0	103	0	103
1280+50.000	50.00	18	0	34	0	138	0	138
1281+00.000	50.00	18	0	33	0	171	0	171
1281+50.000	50.00	18	0	33	0	205	0	205
1282+00.000	50.00	19	0	35	0	239	0	239
1282+50.000	50.00	19	0	36	0	275	0	275
1283+00.000	50.00	19	0	36	0	311	0	311
1283+50.000	50.00	19	0	35	0	346	0	346
1284+00.000	50.00	18	0	35	0	381	0	381
1284+50.000	50.00	19	0	34	0	415	0	415
1285+00.000	50.00	19	0	35	0	450	0	450
1285+50.000	50.00	19	0	34	0	484	0	484
1286+00.000	50.00	19	0	35	0	519	0	519
1286+50.000	50.00	19	0	35	0	554	0	554
1287+00.000	50.00	19	0	35	0	589	0	589
1287+50.000	50.00	19	0	35	0	624	0	624
1288+00.000	50.00	19	0	35	0	659	0	659
1288+50.000	50.00	19	0	35	0	695	0	695
1289+00.000	50.00	19	0	36	0	730	0	730
1289+50.000	50.00	19	0	36	0	766	0	766
1290+00.000	50.00	20	0	36	0	802	0	802
1290+50.000	50.00	20	0	36	0	838	0	838
1291+00.000	50.00	19	0	35	0	874	0	874
1291+50.000	50.00	19	0	35	0	909	0	909
1292+00.000	50.00	18	0	34	0	943	0	943
1292+50.000	50.00	18	0	34	0	976	0	976
1293+00.000	50.00	18	0	34	0	1010	0	1010
1293+50.000	50.00	18	0	34	0	1044	0	1044
1294+00.000	50.00	18	0	33	0	1077	0	1077
1294+50.000	50.00	19	0	34	0	1112	0	1112
1295+00.000	50.00	19	0	35	0	1147	0	1147
1295+50.000	50.00	19	0	35	0	1182	0	1182
1296+00.000	50.00	19	0	35	0	1217	0	1217
1296+50.000	50.00	19	0	35	0	1252	0	1252

PROJECT 1229-04-70

IH 43 - 1279+00 TO 1367+93 NB (STAGE 1)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1297+00.000	50.00	19	0	35	0	1288	0	1288
1297+50.000	50.00	19	0	35	0	1323	0	1323
1298+00.000	50.00	19	0	35	0	1358	0	1358
1298+50.000	50.00	19	0	35	0	1394	0	1394
1299+00.000	50.00	19	0	36	0	1429	0	1429
1299+50.000	50.00	19	0	36	0	1465	0	1465
1300+00.000	50.00	19	0	36	0	1501	0	1501
1300+50.000	50.00	19	0	36	0	1536	0	1536
1301+00.000	50.00	18	0	35	0	1571	0	1571
1301+50.000	50.00	19	0	35	0	1605	0	1605
1302+00.000	50.00	19	0	35	0	1641	0	1641
1302+50.000	50.00	19	0	35	0	1676	0	1676
1303+00.000	50.00	19	0	35	0	1711	0	1711
1303+50.000	50.00	19	0	35	0	1747	0	1747
1304+00.000	50.00	18	0	35	0	1781	0	1781
1304+50.000	50.00	19	0	34	0	1816	0	1816
1305+00.000	50.00	19	0	35	0	1851	0	1851
1305+50.000	50.00	19	0	35	0	1886	0	1886
1306+00.000	50.00	19	0	35	0	1921	0	1921
1306+50.000	50.00	19	0	35	0	1956	0	1956
1307+00.000	50.00	19	0	35	0	1991	0	1991
1307+50.000	50.00	19	0	35	0	2025	0	2025
1308+00.000	50.00	19	0	35	0	2060	0	2060
1308+50.000	50.00	19	0	35	0	2095	0	2095
1309+00.000	50.00	19	0	35	0	2130	0	2130
1309+50.000	50.00	19	0	35	0	2165	0	2165
1310+00.000	50.00	18	0	35	0	2200	0	2200
COUNTY LINE ROAD								
1312+00.000	0.00	18	0	0	0	2200	0	2200
1312+50.000	50.00	19	0	35	0	2234	0	2234
1313+00.000	50.00	19	0	35	0	2269	0	2269
1313+50.000	50.00	19	0	35	0	2304	0	2304
1314+00.000	50.00	19	0	35	0	2339	0	2339
1314+50.000	50.00	19	0	35	0	2374	0	2374
1315+00.000	50.00	19	0	35	0	2408	0	2408

PROJECT 1229-04-70

IH 43 - 1279+00 TO 1367+93 NB (STAGE 1)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1315+50.000	50.00	19	0	35	0	2443	0	2443
1316+00.000	50.00	19	0	35	0	2478	0	2478
1316+50.000	50.00	19	0	35	0	2512	0	2512
1317+00.000	50.00	19	0	34	0	2547	0	2547
1317+50.000	50.00	18	0	34	0	2581	0	2581
1318+00.000	50.00	19	0	34	0	2615	0	2615
1318+50.000	50.00	18	0	34	0	2649	0	2649
1319+00.000	50.00	18	0	34	0	2683	0	2683
1319+50.000	50.00	19	0	34	0	2717	0	2717
1320+00.000	50.00	18	0	34	0	2752	0	2752
1320+50.000	50.00	18	0	34	0	2786	0	2786
1321+00.000	50.00	18	0	34	0	2820	0	2820
1321+50.000	50.00	18	0	34	0	2853	0	2853
1322+00.000	50.00	18	0	34	0	2887	0	2887
1322+50.000	50.00	18	0	33	0	2920	0	2920
1323+00.000	50.00	18	0	33	0	2953	0	2953
1323+50.000	50.00	18	0	34	0	2987	0	2987
1324+00.000	50.00	18	0	34	0	3021	0	3021
1324+50.000	50.00	19	0	34	0	3055	0	3055
1325+00.000	50.00	19	0	34	0	3089	0	3089
1325+50.000	50.00	18	0	34	0	3124	0	3124
1326+00.000	50.00	18	0	34	0	3158	0	3158
1326+50.000	50.00	18	0	34	0	3192	0	3192
1327+00.000	50.00	19	0	34	0	3226	0	3226
1327+50.000	50.00	19	0	34	0	3260	0	3260
1327+75.000	25.00	19	0	17	0	3277	0	3277
PORT WASHINGTON ROAD								
1330+75.000	0.00	18	0	0	0	3277	0	3277
1331+00.000	25.00	18	0	17	0	3294	0	3294
1331+50.000	50.00	18	0	33	0	3327	0	3327
1332+00.000	50.00	18	0	33	0	3359	0	3359
1332+25.000	25.00	17	0	16	0	3376	0	3376
1332+50.000	25.00	17	0	16	0	3392	0	3392
1333+00.000	50.00	18	0	32	0	3424	0	3424
1333+50.000	50.00	17	0	32	0	3456	0	3456

PROJECT 1229-04-70

IH 43 - 1279+00 TO 1367+93 NB (STAGE 1)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1334+00.000	50.00	18	0	32	0	3489	0	3489
1334+50.000	50.00	17	0	32	0	3521	0	3521
1335+00.000	50.00	18	0	33	0	3554	0	3554
1335+50.000	50.00	18	0	33	0	3587	0	3587
1336+00.000	50.00	18	0	33	0	3620	0	3620
1336+50.000	50.00	17	0	32	0	3652	0	3652
1337+00.000	50.00	17	0	32	0	3684	0	3684
1337+50.000	50.00	17	0	32	0	3716	0	3716
1338+00.000	50.00	17	0	32	0	3748	0	3748
1338+50.000	50.00	17	0	32	0	3780	0	3780
1339+00.000	50.00	17	0	32	0	3812	0	3812
1339+50.000	50.00	18	0	32	0	3844	0	3844
1340+00.000	50.00	18	0	33	0	3877	0	3877
1340+50.000	50.00	18	0	33	0	3910	0	3910
1341+00.000	50.00	18	0	33	0	3942	0	3942
1341+50.000	50.00	18	0	33	0	3975	0	3975
1342+00.000	50.00	17	0	32	0	4008	0	4008
1342+50.000	50.00	18	0	32	0	4040	0	4040
1343+00.000	50.00	18	0	33	0	4073	0	4073
1343+50.000	50.00	18	0	33	0	4105	0	4105
1344+00.000	50.00	18	0	33	0	4138	0	4138
1344+50.000	50.00	18	0	33	0	4170	0	4170
1345+00.000	50.00	18	0	33	0	4203	0	4203
1345+50.000	50.00	18	0	33	0	4236	0	4236
1346+00.000	50.00	17	0	32	0	4268	0	4268
1346+50.000	50.00	18	0	33	0	4301	0	4301
1347+00.000	50.00	18	0	34	0	4335	0	4335
1347+50.000	50.00	18	0	34	0	4369	0	4369
1348+00.000	50.00	18	0	34	0	4402	0	4402
1348+50.000	50.00	18	0	34	0	4436	0	4436
1349+00.000	50.00	18	0	33	0	4469	0	4469
1349+50.000	50.00	18	0	34	0	4503	0	4503
1350+00.000	50.00	18	0	34	0	4536	0	4536
1350+50.000	50.00	18	0	33	0	4570	0	4570
1351+00.000	50.00	18	0	33	0	4603	0	4603

PROJECT 1229-04-70

IH 43 - 1279+00 TO 1367+93 NB (STAGE 1)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1351+50.000	50.00	18	0	34	0	4637	0	4637
1352+00.000	50.00	18	0	34	0	4671	0	4671
1352+50.000	50.00	18	0	34	0	4704	0	4704
1353+00.000	50.00	18	0	33	0	4738	0	4738
1353+50.000	50.00	18	0	33	0	4771	0	4771
1354+00.000	50.00	18	0	33	0	4805	0	4805
1354+50.000	50.00	18	0	33	0	4838	0	4838
1355+00.000	50.00	18	0	34	0	4872	0	4872
1355+50.000	50.00	18	0	34	0	4905	0	4905
1356+00.000	50.00	18	0	34	0	4939	0	4939
1356+50.000	50.00	18	0	34	0	4973	0	4973
1357+00.000	50.00	18	0	34	0	5007	0	5007
1357+50.000	50.00	18	0	34	0	5040	0	5040
1358+00.000	50.00	18	0	34	0	5074	0	5074
1358+50.000	50.00	18	0	34	0	5108	0	5108
1359+00.000	50.00	13	0	29	0	5137	0	5137
1359+50.000	50.00	18	0	29	0	5166	0	5166
1360+00.000	50.00	18	0	34	0	5200	0	5200
1360+50.000	50.00	18	0	34	0	5234	0	5234
1361+00.000	50.00	18	0	34	0	5268	0	5268
1361+50.000	50.00	18	0	34	0	5302	0	5302
1362+00.000	50.00	18	0	34	0	5336	0	5336
1362+50.000	50.00	18	0	34	0	5370	0	5370
1363+00.000	50.00	18	0	34	0	5403	0	5403
1363+50.000	50.00	19	0	34	0	5437	0	5437
1364+00.000	50.00	19	0	34	0	5472	0	5472
1364+50.000	50.00	20	0	35	0	5507	0	5507
1365+00.000	50.00	19	0	36	0	5543	0	5543
1365+50.000	50.00	18	0	35	0	5578	0	5578
1366+00.000	50.00	18	0	34	0	5612	0	5612
1366+50.000	50.00	18	0	34	0	5646	0	5646
1366+76.310	26.31	19	0	18	0	5664	0	5664
1367+00.000	23.69	19	0	16	0	5680	0	5680
1367+50.000	50.00	19	0	34	0	5714	0	5714
1367+92.506	42.51	19	0	29	0	5744	0	5744
				5,744	0			5,744

PROJECT 1229-04-70

IH 43 - 1271+08 TO 1366+76 SB (STAGE 1)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1271+08.369	0.00	16	0	0	0	0	0	0
1271+50.000	41.63	18	0	26	0	26	0	26
1272+00.000	50.00	18	0	33	0	60	0	60
1272+50.000	50.00	18	0	33	0	93	0	93
1273+00.000	50.00	18	0	34	0	127	0	126
1273+50.000	50.00	18	0	34	0	160	0	160
1274+00.000	50.00	18	0	33	0	194	0	193
1274+50.000	50.00	18	0	34	0	227	0	227
1275+00.000	50.00	18	0	34	0	261	0	261
1275+50.000	50.00	18	0	34	0	295	0	295
1275+90.000	40.00	18	0	27	0	322	0	322
1276+00.000	10.00	18	0	7	0	329	0	329
1276+50.000	50.00	18	0	34	0	362	0	362
1277+00.000	50.00	19	0	35	0	397	0	397
1277+50.000	50.00	19	0	35	0	432	0	432
1278+00.000	50.00	18	0	35	0	467	0	467
1278+50.000	50.00	19	0	34	0	502	0	501
1279+00.000	50.00	18	0	34	0	535	0	535
1279+50.000	50.00	18	0	33	0	568	0	568
1280+00.000	50.00	18	0	33	0	601	0	601
1280+50.000	50.00	19	0	34	0	635	0	635
1281+00.000	50.00	19	0	35	0	670	0	670
1281+50.000	50.00	18	0	34	0	705	0	704
1282+00.000	50.00	18	0	33	0	738	0	738
1282+50.000	50.00	18	0	33	0	771	0	771
1283+00.000	50.00	18	0	33	0	804	0	804
1283+50.000	50.00	18	0	33	0	837	0	837
1284+00.000	50.00	18	0	34	0	871	0	870
1284+50.000	50.00	18	0	33	0	904	0	904
1285+00.000	50.00	18	0	34	0	938	0	937
1285+50.000	50.00	18	0	34	0	971	0	971
1286+00.000	50.00	18	0	34	0	1005	0	1005
1286+50.000	50.00	18	0	34	0	1039	0	1039
1287+00.000	50.00	18	0	33	0	1072	0	1072
1287+50.000	50.00	19	0	34	0	1106	0	1106

PROJECT 1229-04-70

IH 43 - 1271+08 TO 1366+76 SB (STAGE 1)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1288+00.000	50.00	19	0	35	0	1141	0	1141
1288+50.000	50.00	19	0	34	0	1175	0	1175
1289+00.000	50.00	19	0	34	0	1210	0	1209
1289+50.000	50.00	19	0	35	0	1244	0	1244
1290+00.000	50.00	19	0	36	0	1280	0	1280
1290+50.000	50.00	19	0	36	0	1316	0	1315
1291+00.000	50.00	18	0	35	0	1350	0	1350
1291+50.000	50.00	18	0	34	0	1384	0	1383
1292+00.000	50.00	18	0	33	0	1416	0	1416
1292+50.000	50.00	17	0	32	0	1448	0	1448
1293+00.000	50.00	16	0	30	0	1478	0	1478
1293+50.000	50.00	17	0	30	0	1509	0	1508
1294+00.000	50.00	17	0	31	0	1539	0	1539
1294+50.000	50.00	16	0	30	0	1570	0	1570
1295+00.000	50.00	16	0	29	0	1599	0	1599
1295+50.000	50.00	16	0	29	0	1628	0	1628
1296+00.000	50.00	17	0	31	0	1659	0	1659
1296+50.000	50.00	18	0	32	0	1691	0	1691
1297+00.000	50.00	18	0	33	0	1724	0	1724
1297+50.000	50.00	18	0	32	0	1756	0	1756
1298+00.000	50.00	17	0	32	0	1788	0	1788
1298+50.000	50.00	17	0	32	0	1820	0	1820
1299+00.000	50.00	17	0	32	0	1853	0	1852
1299+50.000	50.00	18	0	32	0	1885	0	1885
1300+00.000	50.00	18	0	33	0	1918	0	1918
1300+50.000	50.00	18	0	33	0	1951	0	1950
1301+00.000	50.00	17	0	33	0	1983	0	1983
1301+50.000	50.00	18	0	33	0	2016	0	2016
1302+00.000	50.00	18	0	34	0	2050	0	2050
1302+50.000	50.00	18	0	34	0	2083	0	2083
1303+00.000	50.00	19	0	35	0	2118	0	2118
1303+50.000	50.00	19	0	35	0	2153	0	2153
1304+00.000	50.00	18	0	34	0	2187	0	2187
1304+50.000	50.00	18	0	33	0	2220	0	2220
1305+00.000	50.00	18	0	33	0	2254	0	2253

PROJECT 1229-04-70

IH 43 - 1271+08 TO 1366+76 SB (STAGE 1)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1305+50.000	50.00	18	0	33	0	2287	0	2287
1306+00.000	50.00	18	0	33	0	2320	0	2320
1306+50.000	50.00	18	0	33	0	2353	0	2353
1307+00.000	50.00	18	0	33	0	2386	0	2386
1307+50.000	50.00	18	0	34	0	2419	0	2419
1308+00.000	50.00	18	0	33	0	2453	0	2453
1308+50.000	50.00	18	0	33	0	2485	0	2485
1309+00.000	50.00	18	0	33	0	2518	0	2518
1309+50.000	50.00	18	0	33	0	2551	0	2551
1310+00.000	50.00	18	0	33	0	2584	0	2584
COUNTY LINE ROAD								
1312+00.000	0.00	19	0	0	0	2584	0	2584
1312+50.000	50.00	19	0	35	0	2619	0	2619
1313+00.000	50.00	19	0	35	0	2654	0	2654
1313+50.000	50.00	19	0	35	0	2688	0	2688
1314+00.000	50.00	18	0	34	0	2723	0	2723
1314+50.000	50.00	18	0	34	0	2757	0	2756
1315+00.000	50.00	18	0	34	0	2790	0	2790
1315+50.000	50.00	18	0	34	0	2824	0	2824
1316+00.000	50.00	18	0	34	0	2858	0	2858
1316+50.000	50.00	19	0	34	0	2893	0	2892
1317+00.000	50.00	19	0	34	0	2927	0	2927
1317+50.000	50.00	18	0	34	0	2961	0	2961
1318+00.000	50.00	18	0	34	0	2995	0	2995
1318+50.000	50.00	18	0	33	0	3028	0	3028
1319+00.000	50.00	17	0	33	0	3061	0	3061
1319+50.000	50.00	17	0	32	0	3093	0	3093
1320+00.000	50.00	17	0	32	0	3125	0	3125
1320+50.000	50.00	17	0	32	0	3157	0	3157
1321+00.000	50.00	18	0	33	0	3190	0	3190
1321+50.000	50.00	18	0	33	0	3223	0	3223
1322+00.000	50.00	18	0	33	0	3256	0	3256
1322+50.000	50.00	18	0	33	0	3289	0	3289
1323+00.000	50.00	18	0	33	0	3322	0	3322
1323+50.000	50.00	17	0	33	0	3355	0	3355

PROJECT 1229-04-70

IH 43 - 1271+08 TO 1366+76 SB (STAGE 1)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1324+00.000	50.00	18	0	33	0	3387	0	3387
1324+50.000	50.00	18	0	33	0	3420	0	3420
1325+00.000	50.00	18	0	33	0	3453	0	3453
1325+50.000	50.00	18	0	33	0	3485	0	3485
1326+00.000	50.00	18	0	33	0	3518	0	3518
1326+50.000	50.00	18	0	33	0	3552	0	3552
1327+00.000	50.00	18	0	34	0	3586	0	3586
1327+50.000	50.00	18	0	34	0	3620	0	3620
1327+75.000	25.00	18	0	17	0	3637	0	3636
1328+00.000	25.00	18	0	17	0	3653	0	3653
1328+50.000	50.00	18	0	34	0	3687	0	3687
1329+00.000	50.00	17	0	33	0	3719	0	3719
1329+25.000	25.00	17	0	16	0	3735	0	3735
PORT WASHINGTON ROAD								
1332+25.000	0.00	17	0	0	0	3735	0	3735
1332+50.000	25.00	17	0	16	0	3752	0	3751
1333+00.000	50.00	17	0	32	0	3784	0	3783
1333+50.000	50.00	18	0	32	0	3816	0	3815
1334+00.000	50.00	17	0	32	0	3848	0	3848
1334+50.000	50.00	17	0	32	0	3880	0	3880
1335+00.000	50.00	17	0	32	0	3912	0	3912
1335+50.000	50.00	18	0	32	0	3944	0	3944
1336+00.000	50.00	18	0	33	0	3977	0	3977
1336+50.000	50.00	18	0	33	0	4010	0	4010
1337+00.000	50.00	18	0	33	0	4043	0	4043
1337+50.000	50.00	18	0	33	0	4075	0	4075
1338+00.000	50.00	18	0	32	0	4108	0	4108
1338+50.000	50.00	18	0	33	0	4140	0	4140
1339+00.000	50.00	18	0	33	0	4173	0	4173
1339+50.000	50.00	17	0	32	0	4205	0	4205
1340+00.000	50.00	18	0	32	0	4238	0	4238
1340+50.000	50.00	17	0	32	0	4270	0	4270
1341+00.000	50.00	17	0	32	0	4302	0	4302
1341+50.000	50.00	17	0	32	0	4334	0	4334
1342+00.000	50.00	17	0	32	0	4366	0	4366

PROJECT 1229-04-70

IH 43 - 1271+08 TO 1366+76 SB (STAGE 1)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1342+50.000	50.00	17	0	32	0	4398	0	4397
1343+00.000	50.00	17	0	32	0	4430	0	4430
1343+50.000	50.00	17	0	32	0	4462	0	4462
1344+00.000	50.00	18	0	32	0	4494	0	4494
1344+50.000	50.00	17	0	32	0	4526	0	4526
1345+00.000	50.00	17	0	32	0	4559	0	4558
1345+50.000	50.00	17	0	32	0	4591	0	4590
1346+00.000	50.00	18	0	32	0	4623	0	4623
1346+50.000	50.00	18	0	33	0	4655	0	4655
1347+00.000	50.00	18	0	33	0	4688	0	4688
1347+50.000	50.00	18	0	33	0	4721	0	4721
1348+00.000	50.00	18	0	33	0	4754	0	4754
1348+50.000	50.00	18	0	33	0	4787	0	4787
1349+00.000	50.00	17	0	33	0	4819	0	4819
1349+50.000	50.00	17	0	32	0	4852	0	4851
1350+00.000	50.00	17	0	32	0	4884	0	4884
1350+50.000	50.00	17	0	32	0	4916	0	4916
1351+00.000	50.00	17	0	32	0	4948	0	4948
1351+50.000	50.00	18	0	33	0	4981	0	4981
1352+00.000	50.00	17	0	32	0	5013	0	5013
1352+50.000	50.00	17	0	32	0	5045	0	5045
1353+00.000	50.00	17	0	32	0	5077	0	5077
1353+50.000	50.00	17	0	32	0	5109	0	5109
1354+00.000	50.00	17	0	32	0	5142	0	5142
1354+50.000	50.00	18	0	32	0	5174	0	5174
1355+00.000	50.00	18	0	33	0	5207	0	5207
1355+50.000	50.00	18	0	33	0	5240	0	5240
1356+00.000	50.00	18	0	33	0	5272	0	5272
1356+50.000	50.00	18	0	33	0	5305	0	5305
1357+00.000	50.00	17	0	32	0	5337	0	5337
1357+50.000	50.00	17	0	32	0	5369	0	5369
1358+00.000	50.00	18	0	32	0	5401	0	5401
1358+50.000	50.00	17	0	32	0	5433	0	5433
1359+00.000	50.00	18	0	33	0	5466	0	5466
1359+50.000	50.00	18	0	33	0	5499	0	5499

PROJECT 1229-04-70

IH 43 - 1271+08 TO 1366+76 SB (STAGE 1)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1360+00.000	50.00	18	0	33	0	5531	0	5531
1360+50.000	50.00	18	0	32	0	5564	0	5564
1361+00.000	50.00	18	0	32	0	5596	0	5596
1361+50.000	50.00	18	0	33	0	5629	0	5629
1362+00.000	50.00	18	0	33	0	5661	0	5661
1362+50.000	50.00	18	0	33	0	5694	0	5694
1363+00.000	50.00	17	0	33	0	5727	0	5727
1363+50.000	50.00	17	0	32	0	5759	0	5759
1364+00.000	50.00	18	0	33	0	5792	0	5792
1364+50.000	50.00	18	0	33	0	5825	0	5824
1365+00.000	50.00	18	0	33	0	5858	0	5858
1365+50.000	50.00	17	0	33	0	5891	0	5891
1366+00.000	50.00	18	0	32	0	5924	0	5923
1366+50.000	50.00	18	0	33	0	5956	0	5956
1366+76.310	26.31	18	0	17	0	5974	0	5974
				5,974	0			5,974

PROJECT 1229-04-70

IH 43 - 1275+90 TO 1367+93 NB (STAGE 2)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1275+90.000	0.00	17	0	0	0	0	0	0
1276+00.000	10.00	17	0	6	0	6	0	6
1276+50.000	50.00	17	0	31	0	37	0	37
1277+00.000	50.00	17	0	31	0	68	0	67
1277+50.000	50.00	17	0	31	0	99	0	98
1278+00.000	50.00	17	0	31	0	130	0	130
1278+50.000	50.00	18	0	33	0	163	0	162
1279+00.000	50.00	23	0	38	0	201	1	200
1279+50.000	50.00	23	0	43	0	243	1	242
1280+00.000	50.00	25	0	45	0	288	1	287
1280+50.000	50.00	24	0	45	0	334	1	333
1281+00.000	50.00	23	1	43	1	377	2	375
1281+50.000	50.00	25	0	45	1	422	3	418
1282+00.000	50.00	33	0	54	0	475	3	472
1282+50.000	50.00	35	0	63	0	538	4	535
1283+00.000	50.00	33	0	62	0	600	4	597
1283+50.000	50.00	34	0	62	0	662	4	659
1284+00.000	50.00	22	0	51	0	714	4	710
1284+50.000	50.00	13	2	32	2	746	6	740
1285+00.000	50.00	8	9	20	10	766	16	749
1285+50.000	50.00	15	16	21	23	787	39	747
1286+00.000	50.00	34	28	45	41	832	80	752
1286+50.000	50.00	20	17	50	41	882	122	760
1287+00.000	50.00	17	16	34	31	916	152	763

PROJECT 1229-04-70

IH 43 - 1275+90 TO 1367+93 NB (STAGE 2)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1287+50.000	50.00	12	12	27	26	942	178	764
1288+00.000	50.00	14	9	24	19	967	197	769
1288+50.000	50.00	15	10	27	17	993	214	779
1289+00.000	50.00	15	10	27	18	1020	233	788
1289+50.000	50.00	16	7	28	15	1049	248	801
1290+00.000	50.00	22	8	35	14	1083	262	822
1290+50.000	50.00	11	11	30	18	1114	280	834
1291+00.000	50.00	9	15	19	24	1132	304	828
1291+50.000	50.00	10	18	18	31	1150	335	815
1292+00.000	50.00	8	17	17	33	1167	367	800
1292+50.000	50.00	12	11	19	26	1186	393	793
1293+00.000	50.00	13	10	23	20	1209	413	796
1293+50.000	50.00	13	10	24	19	1233	432	802
1294+00.000	50.00	11	10	23	19	1256	451	805
1294+50.000	50.00	13	0	23	10	1279	461	818
1295+00.000	50.00	26	0	37	0	1316	461	855
1295+50.000	50.00	21	0	44	0	1359	462	898
1296+00.000	50.00	20	0	38	1	1397	462	935
1296+50.000	50.00	19	0	36	1	1434	463	971
1297+00.000	50.00	21	0	37	0	1471	464	1007
1297+50.000	50.00	20	0	38	0	1508	464	1044
1298+00.000	50.00	16	0	33	0	1541	464	1077
1298+50.000	50.00	17	0	30	0	1571	465	1107
1299+00.000	50.00	15	0	29	0	1600	465	1136
1299+50.000	50.00	12	0	25	0	1625	465	1160
1300+00.000	50.00	11	0	21	0	1646	465	1182
1300+50.000	50.00	9	0	19	0	1665	465	1201
1301+00.000	50.00	6	0	14	0	1679	465	1214
1301+50.000	50.00	7	0	12	0	1691	465	1227
1302+00.000	50.00	9	0	15	0	1706	465	1242
1302+50.000	50.00	9	0	17	0	1723	465	1258
1303+00.000	50.00	10	0	18	0	1741	465	1276
1303+50.000	50.00	8	0	17	0	1758	465	1293
1304+00.000	50.00	7	0	14	0	1771	465	1307
1304+50.000	50.00	8	0	13	0	1785	465	1320

PROJECT 1229-04-70

IH 43 - 1275+90 TO 1367+93 NB (STAGE 2)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1305+00.000	50.00	7	0	14	0	1798	465	1334
1305+50.000	50.00	10	0	15	0	1814	465	1349
1306+00.000	50.00	8	0	17	0	1831	465	1366
1306+50.000	50.00	94	0	95	0	1926	465	1461
1307+00.000	50.00	86	0	167	0	2093	465	1629
1307+50.000	50.00	81	0	155	0	2248	465	1784
1308+00.000	50.00	68	0	138	0	2387	465	1922
1308+50.000	50.00	54	0	114	0	2501	465	2036
1309+00.000	50.00	51	0	98	0	2598	465	2134
1309+50.000	50.00	64	0	106	0	2705	465	2240
1310+00.000	50.00	87	0	140	0	2845	465	2380
COUNTY LINE ROAD								
1312+00.000	50.00	56	3	103	6	2845	465	2380
1312+50.000	50.00	58	4	106	7	2950	472	2478
1313+00.000	50.00	67	6	116	9	3066	481	2585
1313+50.000	50.00	64	6	122	11	3188	492	2696
1314+00.000	50.00	87	6	140	11	3328	503	2825
1314+50.000	50.00	95	8	168	13	3497	516	2981
1315+00.000	50.00	109	6	189	13	3686	530	3156
1315+50.000	50.00	93	6	187	11	3873	541	3332
1316+00.000	50.00	103	4	181	9	4054	550	3504
1316+50.000	50.00	101	4	189	7	4243	557	3686
1317+00.000	50.00	98	4	185	8	4428	565	3863
1317+50.000	50.00	68	3	154	7	4582	572	4010
1318+00.000	50.00	47	3	106	6	4688	578	4111
1318+50.000	50.00	50	4	89	6	4778	584	4194
1319+00.000	50.00	50	4	93	7	4870	591	4279
1319+50.000	50.00	47	4	90	7	4961	598	4363
1320+00.000	50.00	39	4	80	7	5041	605	4436
1320+50.000	50.00	35	3	69	6	5109	611	4498
1321+00.000	50.00	30	2	61	5	5170	616	4554
1321+50.000	50.00	31	3	57	5	5226	620	4606
1322+00.000	50.00	28	3	54	5	5281	626	4655
1322+50.000	50.00	30	2	53	5	5334	630	4704
1323+00.000	50.00	20	2	46	4	5380	634	4745

PROJECT 1229-04-70

IH 43 - 1275+90 TO 1367+93 NB (STAGE 2)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1323+50.000	50.00	21	2	38	4	5417	639	4779
1324+00.000	50.00	23	2	40	4	5458	643	4815
1324+50.000	50.00	22	3	41	4	5499	647	4852
1325+00.000	50.00	24	1	42	3	5541	650	4891
1325+50.000	50.00	25	3	46	3	5587	654	4933
1326+00.000	50.00	27	2	49	4	5635	658	4977
1326+50.000	50.00	32	1	55	3	5691	661	5030
1327+00.000	50.00	32	1	60	2	5750	663	5088
1327+50.000	50.00	32	2	60	2	5810	665	5145
1327+75.000	25.00	35	2	31	1	5841	667	5174
PORT WASHITNGTON ROAD								
1330+75.000	0.00	26	2	0	0	5841	667	5174
1331+00.000	25.00	23	2	23	2	5864	669	5195
1331+50.000	50.00	21	4	41	5	5904	674	5230
1332+00.000	50.00	21	3	39	6	5943	680	5263
1332+25.000	25.00	20	3	19	3	5962	683	5279
1332+50.000	25.00	20	3	18	3	5980	686	5295
1333+00.000	50.00	21	4	38	7	6019	692	5326
1333+50.000	50.00	32	3	50	7	6068	699	5369
1334+00.000	50.00	38	2	65	5	6133	705	5429
1334+50.000	50.00	40	3	72	5	6205	709	5496
1335+00.000	50.00	45	2	78	4	6284	713	5570
1335+50.000	50.00	47	3	85	4	6369	718	5651
1336+00.000	50.00	49	2	89	4	6458	722	5736
1336+50.000	50.00	48	1	90	3	6548	725	5823
1337+00.000	50.00	45	1	86	3	6634	727	5907
1337+50.000	50.00	32	2	72	4	6705	731	5975
1338+00.000	50.00	29	3	57	5	6762	736	6026
1338+50.000	50.00	37	3	61	6	6823	742	6082
1339+00.000	50.00	46	3	77	6	6901	748	6153
1339+50.000	50.00	47	4	86	7	6987	755	6232
1340+00.000	50.00	40	5	80	9	7067	764	6304
1340+50.000	50.00	51	5	84	9	7151	773	6378
1341+00.000	50.00	48	4	91	8	7242	781	6462
1341+50.000	50.00	32	2	74	6	7316	787	6530

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PROJECT 1229-04-70

IH 43 - 1275+90 TO 1367+93 NB (STAGE 2)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1342+00.000	50.00	39	5	66	6	7382	793	6589
1342+50.000	50.00	26	5	60	9	7442	802	6640
1343+00.000	50.00	32	4	54	9	7496	811	6686
1343+50.000	50.00	33	4	61	8	7557	818	6739
1344+00.000	50.00	35	3	63	7	7620	825	6795
1344+50.000	50.00	34	5	64	7	7684	832	6851
1345+00.000	50.00	39	5	68	8	7751	841	6911
1345+50.000	50.00	50	4	82	8	7833	849	6985
1346+00.000	50.00	50	3	92	7	7925	856	7070
1346+50.000	50.00	58	3	100	6	8025	862	7163
1347+00.000	50.00	52	3	102	6	8127	868	7259
1347+50.000	50.00	57	3	101	6	8228	874	7355
1348+00.000	50.00	54	4	103	6	8331	880	7451
1348+50.000	50.00	47	3	93	6	8424	885	7539
1349+00.000	50.00	45	3	86	5	8510	891	7619
1349+50.000	50.00	40	3	79	5	8589	896	7693
1350+00.000	50.00	32	3	66	6	8655	902	7753
1350+50.000	50.00	27	3	54	6	8709	907	7802
1351+00.000	50.00	32	2	55	4	8764	912	7852
1351+50.000	50.00	41	2	68	4	8832	915	7916
1352+00.000	50.00	41	1	76	3	8907	919	7989
1352+50.000	50.00	34	3	69	4	8976	922	8054
1353+00.000	50.00	33	4	62	6	9038	928	8110
1353+50.000	50.00	28	4	57	6	9095	934	8161
1354+00.000	50.00	22	3	46	6	9141	941	8201
1354+50.000	50.00	24	2	42	5	9183	946	8237
1355+00.000	50.00	32	2	52	4	9235	951	8284
1355+50.000	50.00	37	2	64	4	9299	955	8344
1356+00.000	50.00	46	1	77	3	9376	958	8418
1356+50.000	50.00	44	1	83	2	9459	960	8499
1357+00.000	50.00	33	2	71	3	9530	963	8567
1357+50.000	50.00	23	2	52	4	9582	967	8615
1358+00.000	50.00	19	2	39	4	9621	972	8649
1358+50.000	50.00	21	3	36	5	9657	977	8680
1359+00.000	50.00	28	4	45	7	9702	983	8718

PROJECT 1229-04-70

IH 43 - 1275+90 TO 1367+93 NB (STAGE 2)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1359+50.000	50.00	22	1	46	5	9747	988	8759
1360+00.000	50.00	20	3	39	4	9786	992	8794
1360+50.000	50.00	18	3	35	5	9821	997	8824
1361+00.000	50.00	17	2	33	4	9854	1002	8853
1361+50.000	50.00	17	1	32	2	9886	1004	8882
1362+00.000	50.00	14	2	29	2	9915	1006	8909
1362+50.000	50.00	14	1	26	2	9941	1008	8933
1363+00.000	50.00	14	0	26	1	9967	1009	8958
1363+50.000	50.00	14	0	26	0	9993	1009	8984
1364+00.000	50.00	17	0	29	0	10022	1009	9013
1364+50.000	50.00	1	0	17	0	10039	1009	9030
1365+00.000	50.00	1	1	2	1	10041	1010	9031
1365+50.000	50.00	1	0	2	1	10043	1012	9031
1366+00.000	50.00	1	0	2	0	10045	1012	9033
1366+50.000	50.00	1	0	2	0	10047	1012	9035
1366+76.310	26.31	1	0	1	0	10048	1012	9036
1367+00.000	23.69	1	0	1	0	10050	1012	9038
1367+50.000	50.00	1	0	2	0	10052	1012	9040
1367+92.506	42.51	1	0	2	0	10054	1012	9042
				10,158	1,019			9,042

PROJECT 1229-04-70

IH 43 - 1271+08 TO 1366+76 SB (STAGE 2)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1271+08.369	0.00	4	32	0	0	0	0	0
1271+50.000	41.63	0	28	4	47	4	47	-43
1272+00.000	50.00	2	1	2	27	6	74	-68
1272+50.000	50.00	0	0	2	1	8	75	-67
1273+00.000	50.00	1	0	1	1	9	75	-66
1273+50.000	50.00	1	0	2	1	12	76	-64
1274+00.000	50.00	4	1	5	1	16	77	-61
1274+50.000	50.00	7	2	10	3	26	80	-54
1275+00.000	50.00	9	3	15	5	41	85	-44
1275+50.000	50.00	11	10	18	12	59	97	-37
1275+90.000	40.00	12	7	17	12	76	109	-33
1276+00.000	10.00	13	8	5	3	81	112	-31
1276+50.000	50.00	14	8	25	15	106	127	-20
1277+00.000	50.00	15	6	27	13	134	140	-7
1277+50.000	50.00	16	4	29	10	163	150	13
1278+00.000	50.00	18	5	32	8	195	158	37
1278+50.000	50.00	28	1	43	6	238	164	74
1279+00.000	50.00	40	1	62	2	300	165	135
1279+50.000	50.00	39	1	72	2	372	167	205
1280+00.000	50.00	27	1	61	2	433	169	264
1280+50.000	50.00	21	3	44	4	477	174	304
1281+00.000	50.00	18	5	36	7	513	181	333
1281+50.000	50.00	21	1	36	5	550	186	364
1282+00.000	50.00	24	1	42	2	592	188	403
1282+50.000	50.00	17	4	38	5	630	193	437
1283+00.000	50.00	18	7	32	10	661	203	459
1283+50.000	50.00	16	5	31	11	693	214	479
1284+00.000	50.00	16	5	30	9	723	223	500
1284+50.000	50.00	28	1	41	5	764	228	535
1285+00.000	50.00	31	3	54	4	818	232	585
1285+50.000	50.00	56	3	80	6	898	238	660
1286+00.000	50.00	70	0	116	3	1014	241	773
1286+50.000	50.00	77	0	136	0	1151	241	909
1287+00.000	50.00	81	0	146	0	1297	242	1055
1287+50.000	50.00	75	0	144	0	1441	242	1200

PROJECT 1229-04-70

IH 43 - 1271+08 TO 1366+76 SB (STAGE 2)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1288+00.000	50.00	52	0	118	0	1559	242	1318
1288+50.000	50.00	30	1	76	1	1635	243	1393
1289+00.000	50.00	26	2	52	3	1687	246	1442
1289+50.000	50.00	20	4	43	5	1730	251	1479
1290+00.000	50.00	16	9	34	11	1763	262	1501
1290+50.000	50.00	12	15	26	22	1790	284	1506
1291+00.000	50.00	10	14	21	27	1810	310	1500
1291+50.000	50.00	6	25	15	36	1825	346	1478
1292+00.000	50.00	6	24	10	45	1835	391	1444
1292+50.000	50.00	6	33	11	53	1846	444	1402
1293+00.000	50.00	5	37	11	65	1857	509	1347
1293+50.000	50.00	4	33	8	64	1865	573	1291
1294+00.000	50.00	3	21	6	50	1871	623	1248
1294+50.000	50.00	4	14	6	32	1877	656	1221
1295+00.000	50.00	6	6	9	18	1886	674	1212
1295+50.000	50.00	13	1	17	7	1904	681	1223
1296+00.000	50.00	21	1	32	2	1935	683	1252
1296+50.000	50.00	22	1	40	1	1975	684	1291
1297+00.000	50.00	25	1	43	2	2018	685	1333
1297+50.000	50.00	28	1	49	2	2068	687	1380
1298+00.000	50.00	26	1	50	2	2117	689	1429
1298+50.000	50.00	22	1	45	2	2162	691	1471
1299+00.000	50.00	21	2	41	3	2203	693	1509
1299+50.000	50.00	25	2	43	3	2246	697	1549
1300+00.000	50.00	23	3	45	4	2290	701	1590
1300+50.000	50.00	22	4	41	6	2332	707	1625
1301+00.000	50.00	18	5	37	8	2369	714	1654
1301+50.000	50.00	22	4	37	8	2406	722	1684
1302+00.000	50.00	24	3	42	6	2448	729	1720
1302+50.000	50.00	45	2	64	5	2512	733	1779
1303+00.000	50.00	51	0	89	2	2601	736	1865
1303+50.000	50.00	72	0	114	0	2715	736	1979
1304+00.000	50.00	82	0	143	0	2858	736	2122
1304+50.000	50.00	103	0	172	0	3030	736	2294
1305+00.000	50.00	99	0	187	0	3217	736	2481

PROJECT 1229-04-70

IH 43 - 1271+08 TO 1366+76 SB (STAGE 2)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1305+50.000	50.00	93	0	178	0	3394	736	2658
1306+00.000	50.00	54	2	136	2	3530	738	2793
1306+50.000	50.00	12	8	61	8	3591	746	2845
1307+00.000	50.00	10	13	21	19	3612	765	2847
1307+50.000	50.00	10	16	18	27	3630	792	2839
1308+00.000	50.00	7	18	15	31	3646	823	2823
1308+50.000	50.00	8	16	14	31	3659	854	2805
1309+00.000	50.00	8	14	15	28	3675	882	2793
1309+50.000	50.00	10	11	17	23	3691	905	2786
1310+00.000	50.00	12	9	20	18	3711	923	2788
COUNTY LINE ROAD								
1312+00.000	0.00	61	7	0	0	3711	923	2788
1312+50.000	50.00	15	11	70	17	3781	939	2842
1313+00.000	50.00	13	7	25	16	3807	956	2851
1313+50.000	50.00	11	12	22	17	3828	973	2855
1314+00.000	50.00	9	13	19	23	3847	997	2850
1314+50.000	50.00	9	16	17	27	3864	1023	2840
1315+00.000	50.00	9	14	17	28	3880	1051	2829
1315+50.000	50.00	11	13	18	25	3899	1076	2823
1316+00.000	50.00	10	11	19	22	3918	1098	2820
1316+50.000	50.00	11	11	20	21	3938	1119	2819
1317+00.000	50.00	12	8	22	18	3960	1137	2823
1317+50.000	50.00	16	7	26	14	3985	1151	2835
1318+00.000	50.00	22	3	35	9	4021	1160	2861
1318+50.000	50.00	27	0	46	3	4066	1162	2904
1319+00.000	50.00	31	1	54	2	4120	1164	2956
1319+50.000	50.00	27	1	53	2	4173	1166	3007
1320+00.000	50.00	26	0	49	1	4222	1167	3054
1320+50.000	50.00	22	2	44	2	4266	1170	3096
1321+00.000	50.00	27	0	45	2	4311	1172	3139
1321+50.000	50.00	37	0	59	0	4370	1172	3198
1322+00.000	50.00	40	0	71	0	4440	1172	3268
1322+50.000	50.00	36	0	70	0	4510	1172	3338
1323+00.000	50.00	36	0	67	0	4577	1172	3405
1323+50.000	50.00	31	0	62	0	4639	1172	3466

PROJECT 1229-04-70

IH 43 - 1271+08 TO 1366+76 SB (STAGE 2)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1324+00.000	50.00	40	1	65	1	4704	1173	3531
1324+50.000	50.00	41	1	75	1	4779	1174	3604
1325+00.000	50.00	41	0	76	1	4855	1175	3680
1325+50.000	50.00	37	1	72	1	4927	1176	3751
1326+00.000	50.00	39	0	71	1	4998	1177	3821
1326+50.000	50.00	34	1	68	1	5066	1178	3888
1327+00.000	50.00	28	2	57	2	5123	1180	3943
1327+50.000	50.00	27	2	50	4	5174	1184	3990
1327+75.000	25.00	29	2	26	2	5199	1186	4014
1328+00.000	25.00	29	2	27	2	5226	1187	4039
1328+50.000	50.00	26	2	51	3	5278	1190	4087
1329+00.000	50.00	22	4	44	5	5322	1196	4127
1329+25.000	25.00	27	1	23	2	5345	1198	4147
PORT WASHINGTON ROAD								
1332+25.000	0.00	20	0	0	0	5345	1198	4147
1332+50.000	25.00	17	1	17	1	5362	1199	4163
1333+00.000	50.00	18	3	33	5	5395	1203	4192
1333+50.000	50.00	12	4	28	7	5423	1210	4213
1334+00.000	50.00	14	5	24	8	5447	1218	4229
1334+50.000	50.00	14	4	26	8	5473	1225	4248
1335+00.000	50.00	19	2	30	5	5503	1230	4273
1335+50.000	50.00	20	2	36	4	5539	1235	4304
1336+00.000	50.00	21	3	38	5	5577	1239	4337
1336+50.000	50.00	20	2	38	5	5615	1244	4371
1337+00.000	50.00	18	4	36	5	5650	1249	4401
1337+50.000	50.00	16	3	32	6	5682	1255	4427
1338+00.000	50.00	18	4	32	6	5714	1262	4452
1338+50.000	50.00	15	4	31	7	5745	1269	4476
1339+00.000	50.00	19	2	32	6	5776	1275	4502
1339+50.000	50.00	18	4	34	5	5811	1280	4531
1340+00.000	50.00	22	3	37	6	5847	1286	4561
1340+50.000	50.00	34	3	52	5	5899	1292	4608
1341+00.000	50.00	43	3	72	5	5971	1297	4674
1341+50.000	50.00	63	2	98	5	6069	1301	4767
1342+00.000	50.00	74	2	126	4	6195	1305	4890

PROJECT 1229-04-70

IH 43 - 1271+08 TO 1366+76 SB (STAGE 2)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1342+50.000	50.00	76	3	139	4	6334	1309	5024
1343+00.000	50.00	75	3	140	5	6473	1315	5158
1343+50.000	50.00	81	1	145	4	6618	1318	5299
1344+00.000	50.00	66	2	137	3	6754	1322	5433
1344+50.000	50.00	58	3	115	5	6870	1327	5543
1345+00.000	50.00	61	4	110	7	6980	1333	5647
1345+50.000	50.00	48	4	101	8	7081	1341	5740
1346+00.000	50.00	34	3	76	7	7157	1348	5809
1346+50.000	50.00	32	2	61	4	7218	1352	5866
1347+00.000	50.00	25	3	53	4	7271	1357	5915
1347+50.000	50.00	28	1	49	4	7320	1361	5959
1348+00.000	50.00	28	1	51	3	7371	1363	6008
1348+50.000	50.00	25	1	49	3	7420	1366	6054
1349+00.000	50.00	22	1	44	2	7464	1368	6096
1349+50.000	50.00	21	1	40	2	7504	1370	6134
1350+00.000	50.00	25	1	43	2	7547	1372	6176
1350+50.000	50.00	22	1	44	2	7592	1373	6218
1351+00.000	50.00	20	3	40	4	7631	1378	6254
1351+50.000	50.00	15	3	33	6	7664	1384	6280
1352+00.000	50.00	15	3	28	6	7692	1389	6303
1352+50.000	50.00	19	2	32	5	7724	1394	6330
1353+00.000	50.00	16	2	32	4	7756	1397	6358
1353+50.000	50.00	17	2	30	3	7786	1401	6385
1354+00.000	50.00	23	1	37	2	7823	1403	6420
1354+50.000	50.00	24	1	43	2	7866	1405	6461
1355+00.000	50.00	17	2	38	3	7904	1408	6496
1355+50.000	50.00	14	3	29	5	7933	1413	6519
1356+00.000	50.00	15	4	27	6	7960	1420	6540
1356+50.000	50.00	14	4	27	7	7986	1427	6559
1357+00.000	50.00	14	5	25	9	8011	1436	6575
1357+50.000	50.00	15	2	26	7	8037	1443	6594
1358+00.000	50.00	15	3	27	5	8065	1448	6616
1358+50.000	50.00	13	3	26	6	8091	1454	6637
1359+00.000	50.00	14	2	25	5	8116	1459	6657
1359+50.000	50.00	13	4	25	6	8140	1465	6675

PROJECT 1229-04-70

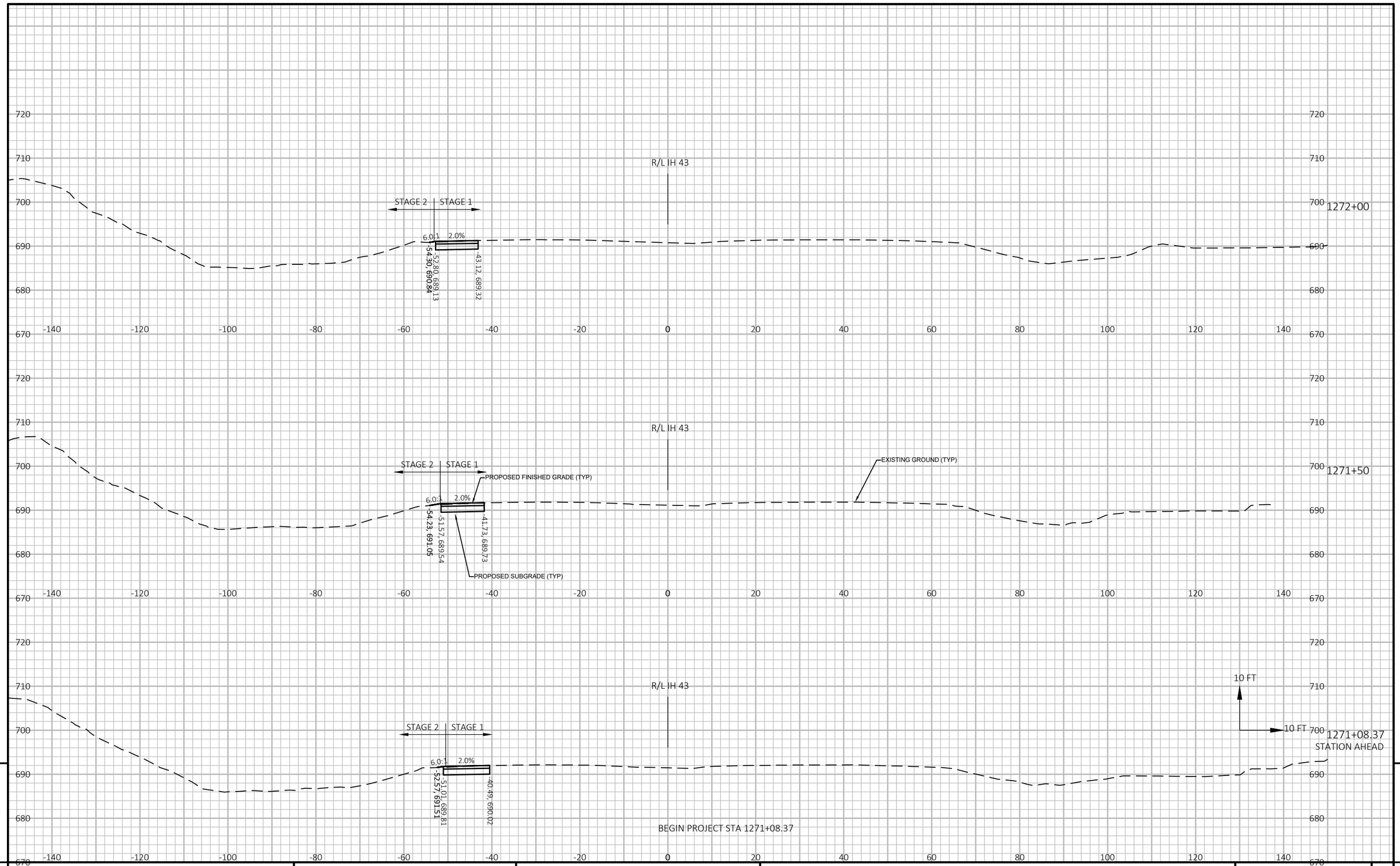
IH 43 - 1271+08 TO 1366+76 SB (STAGE 2)

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Fill 1.00	
1360+00.000	50.00	12	8	23	11	8163	1476	6687
1360+50.000	50.00	11	15	20	21	8184	1497	6686
1361+00.000	50.00	12	10	21	23	8204	1521	6684
1361+50.000	50.00	10	3	20	12	8224	1533	6692
1362+00.000	50.00	9	2	17	5	8242	1537	6704
1362+50.000	50.00	6	1	14	3	8255	1540	6715
1363+00.000	50.00	4	13	9	13	8264	1554	6711
1363+50.000	50.00	3	36	7	46	8271	1600	6671
1364+00.000	50.00	18	3	20	36	8291	1636	6655
1364+50.000	50.00	14	0	30	2	8321	1638	6683
1365+00.000	50.00	0	11	13	10	8334	1648	6686
1365+50.000	50.00	0	0	0	11	8334	1659	6675
1366+00.000	50.00	1	0	1	0	8335	1659	6676
1366+50.000	50.00	6	0	7	0	8341	1660	6682
1366+76.310	26.31	27	0	16	0	8357	1660	6697
				8,357	1,660			6,697

EARTHWORK DATA NOT SHOWN BETWEEN STA 1578+00 AND STA 1787+00, WHERE SHOULDER REPLACEMENT DOES NOT EXTEND BEYOND THE EXISTING SHOULDER AREA.

9

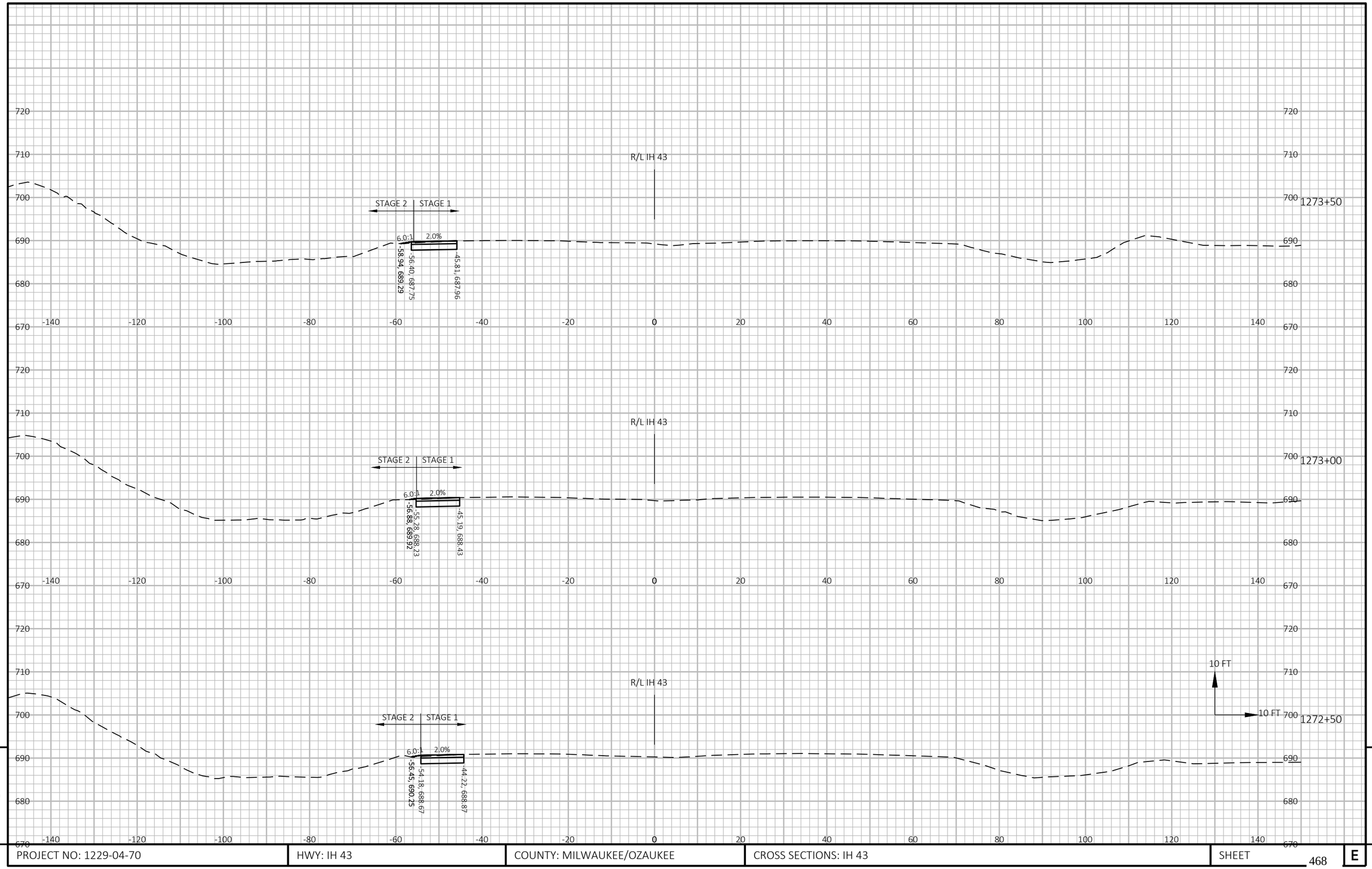
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 467	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:30 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

WISDOT/CADDS SHEET 49



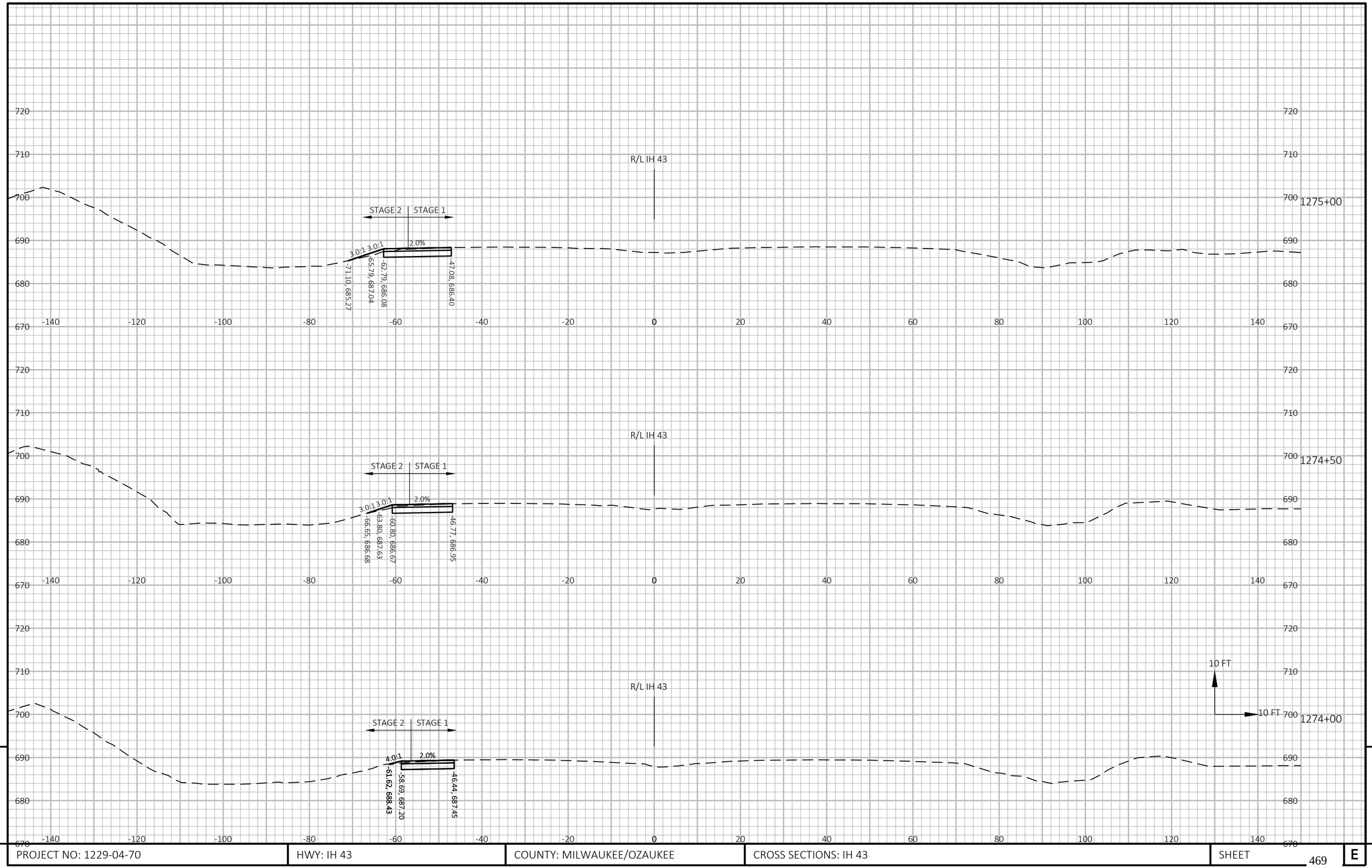
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 468	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:30 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

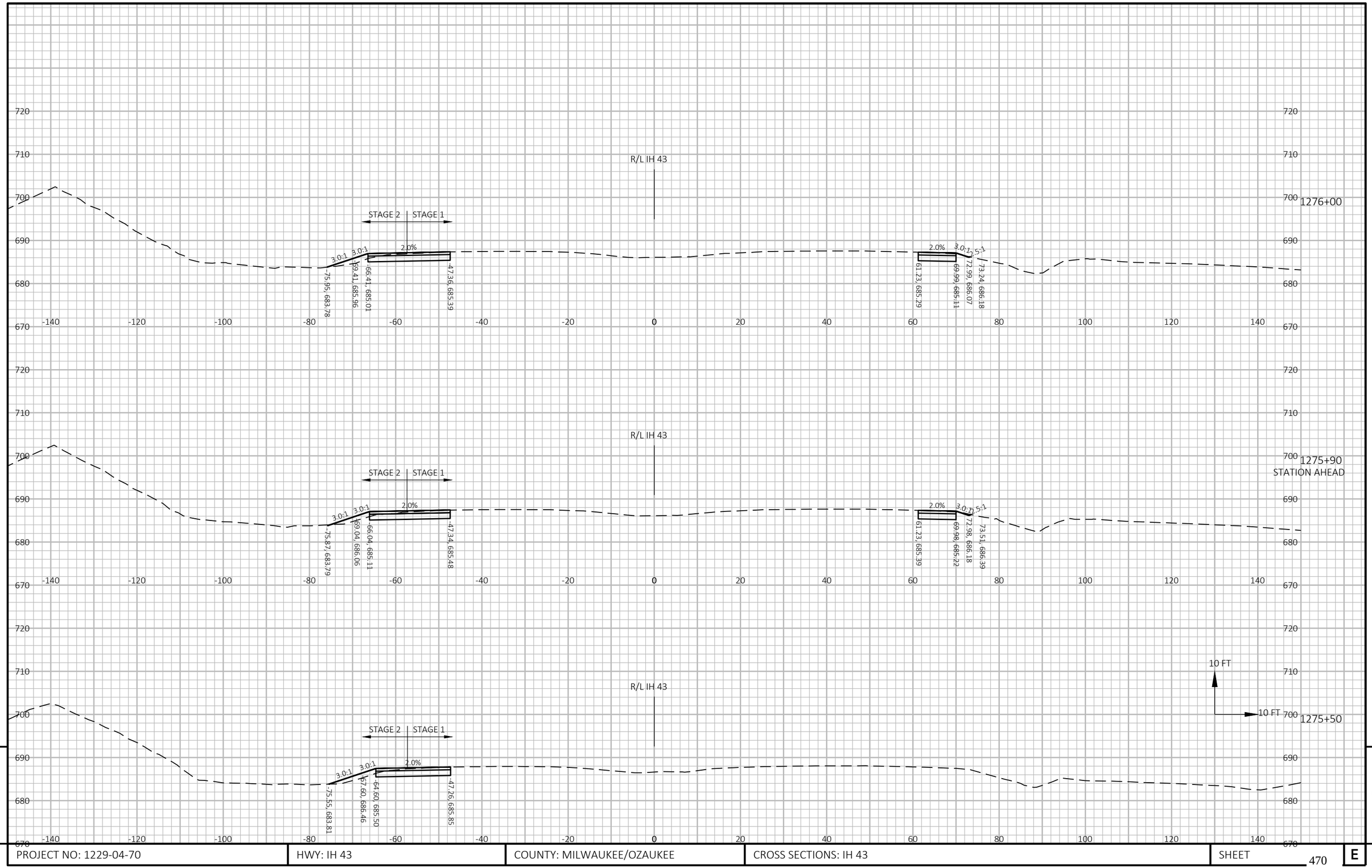
WISDOT/CADDS SHEET 49



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 469 E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:31 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

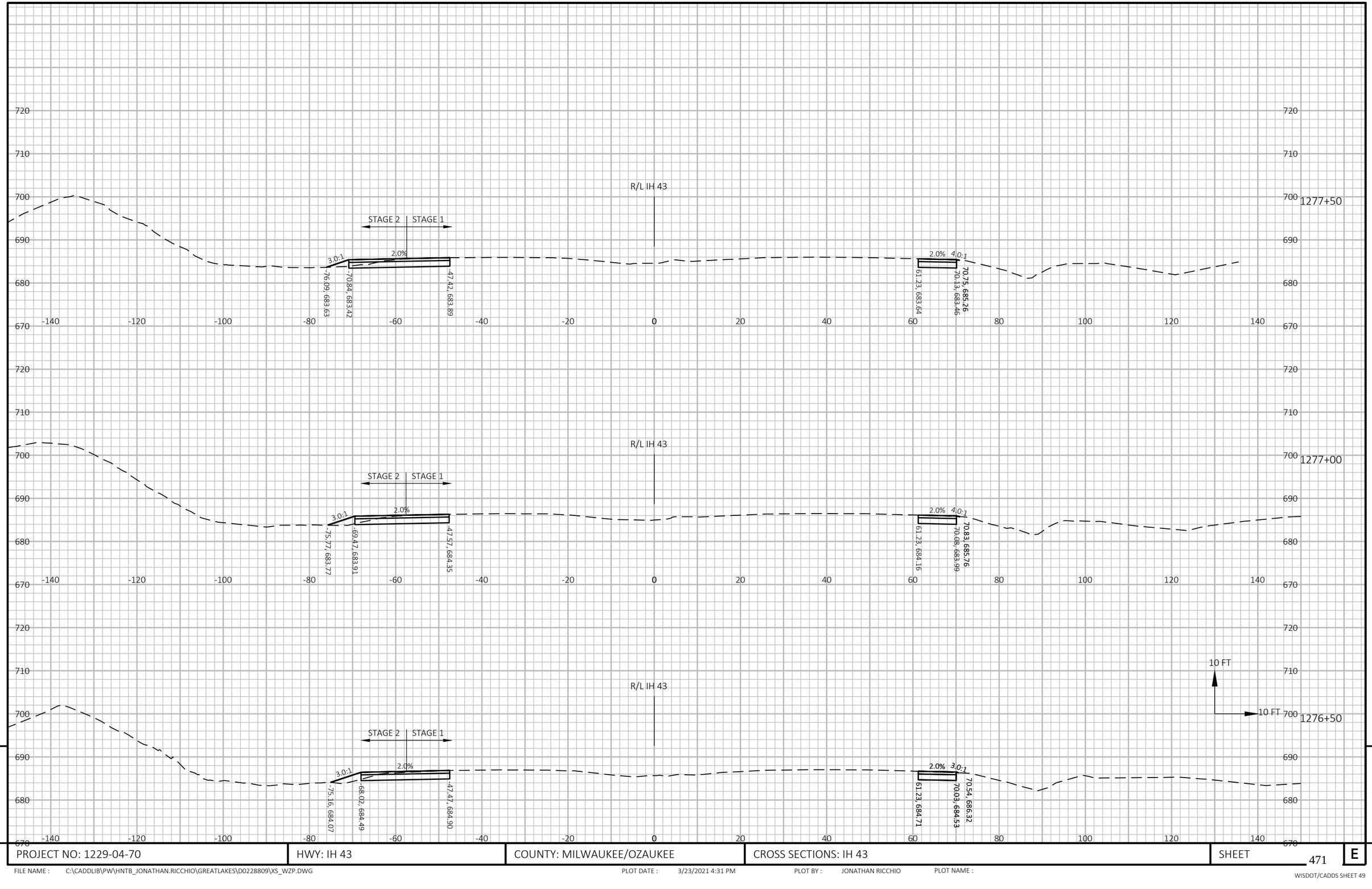
WISDOT/CADDS SHEET 49



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 470	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:31 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

WISDOT/CADDS SHEET 49

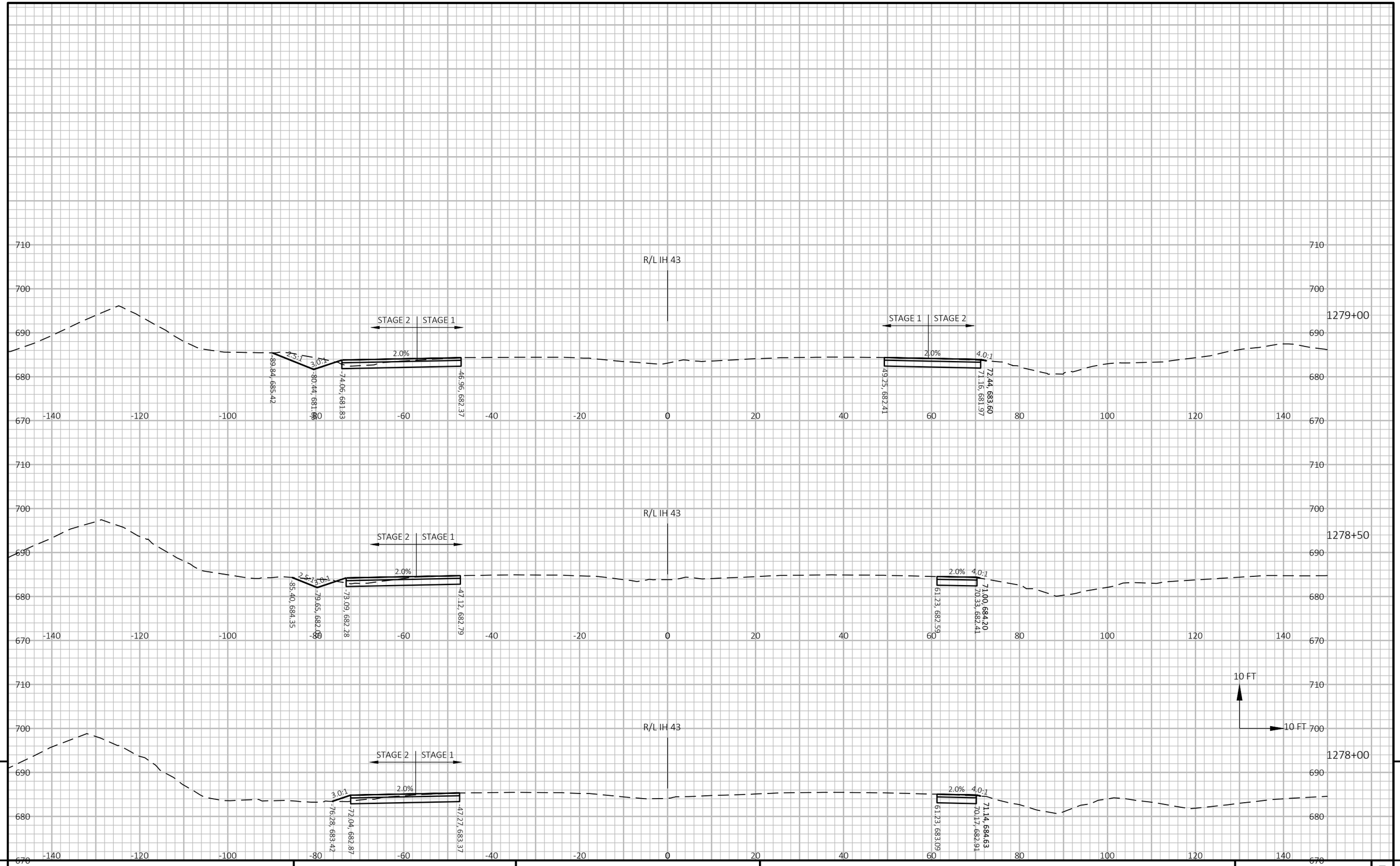


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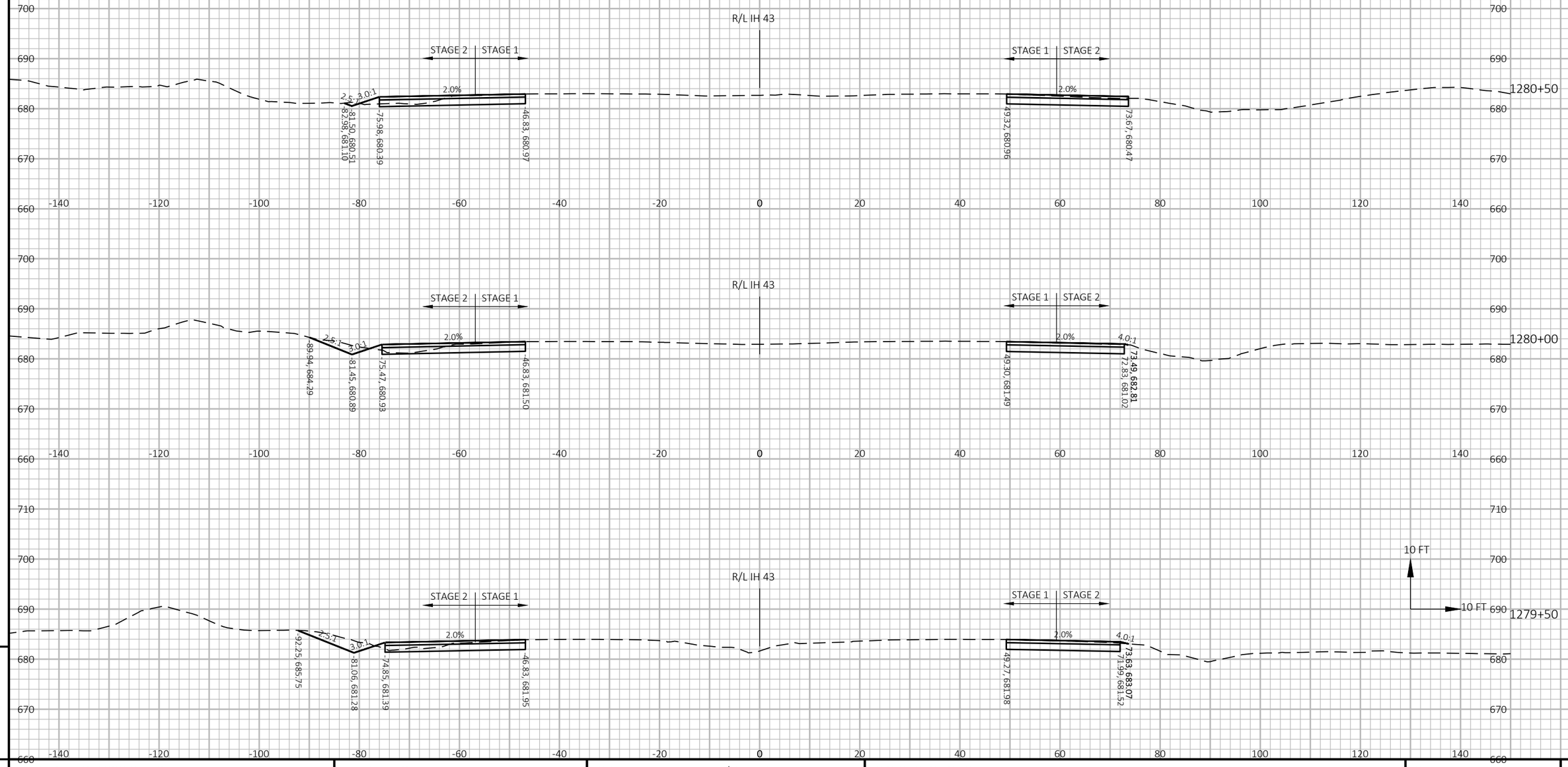
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 471	E

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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 472	E



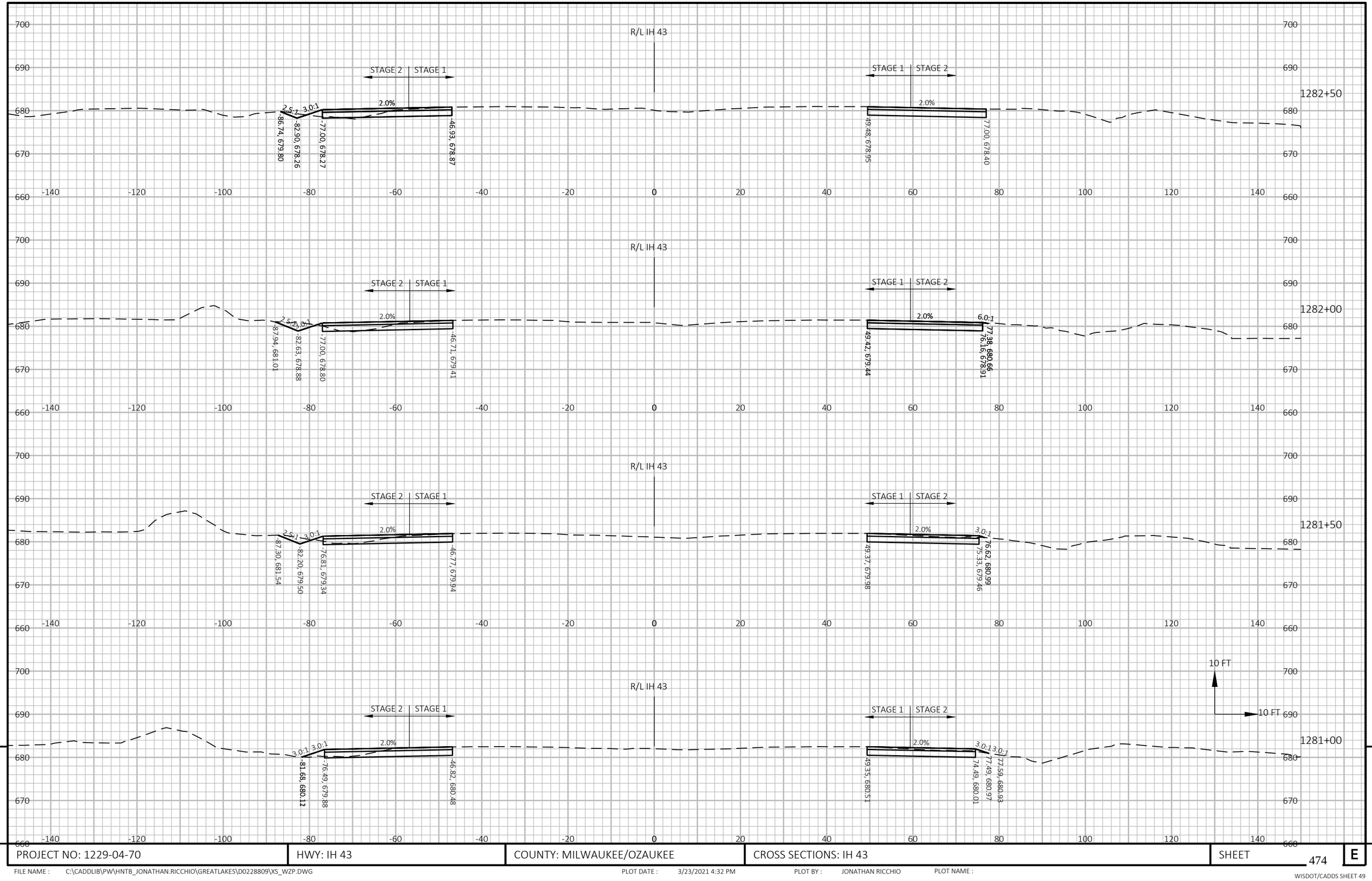
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 473	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:32 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

WISDOT/CADDS SHEET 49

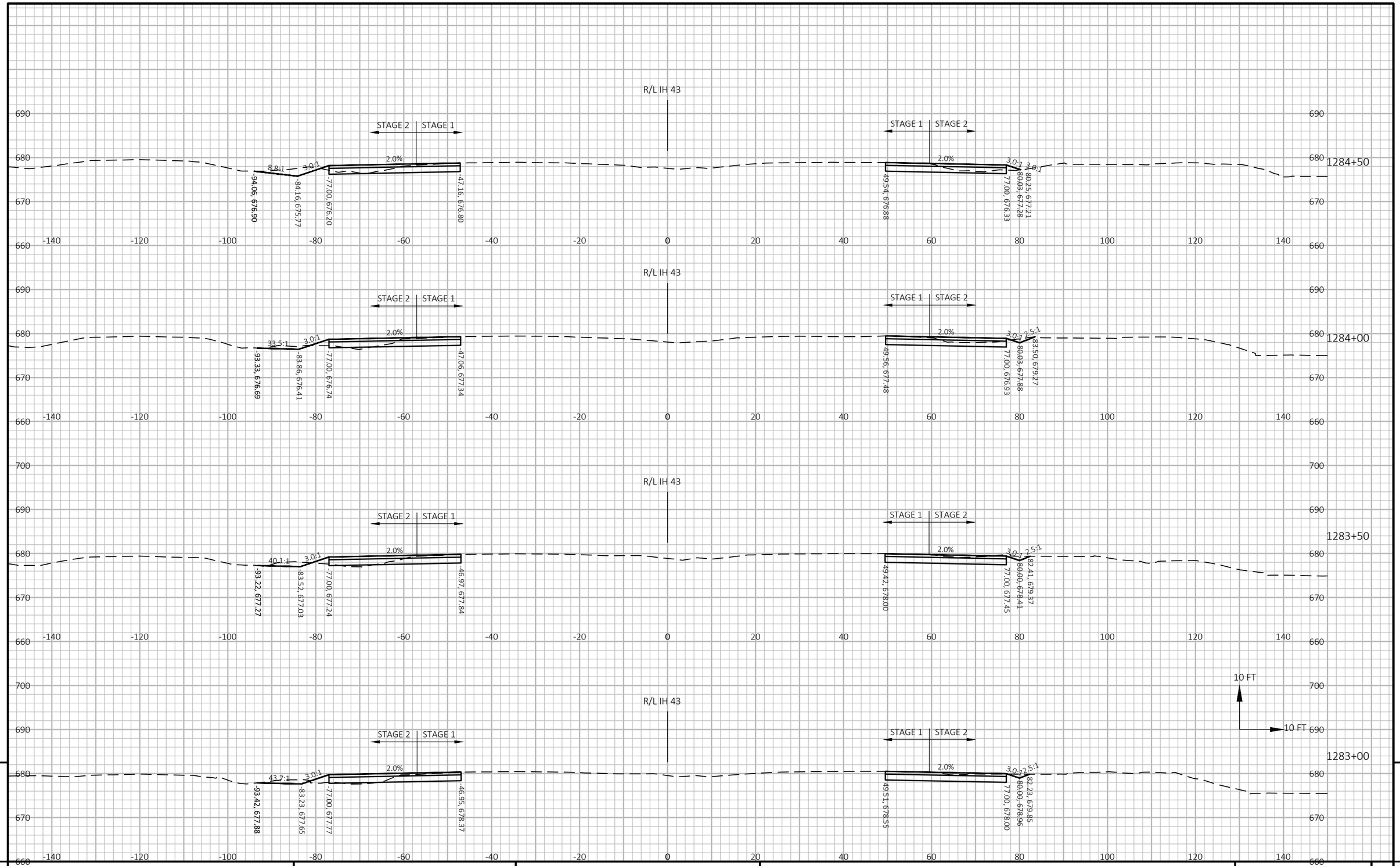


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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 474	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:32 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :



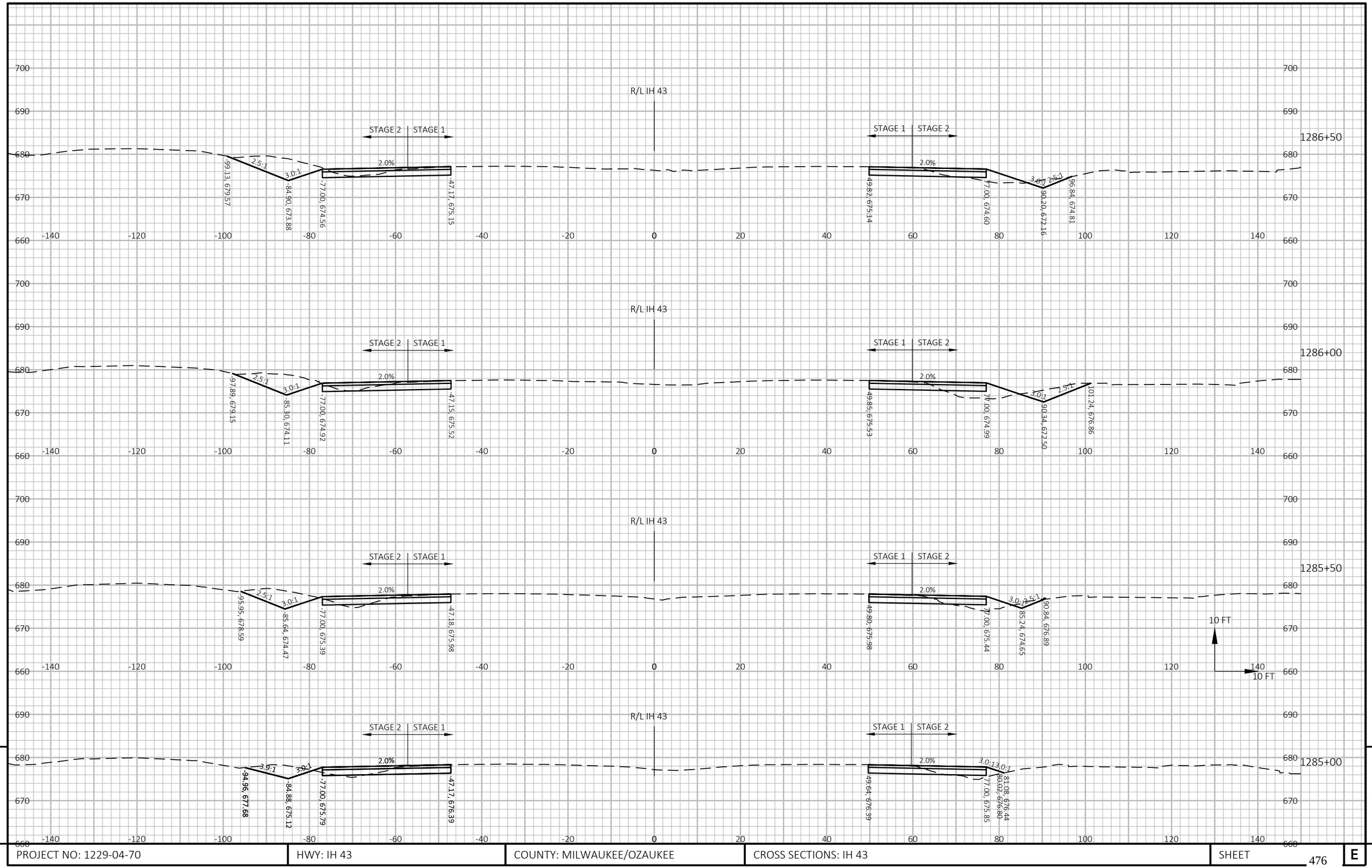
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 475	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:32 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

WISDOT/CADDS SHEET 49



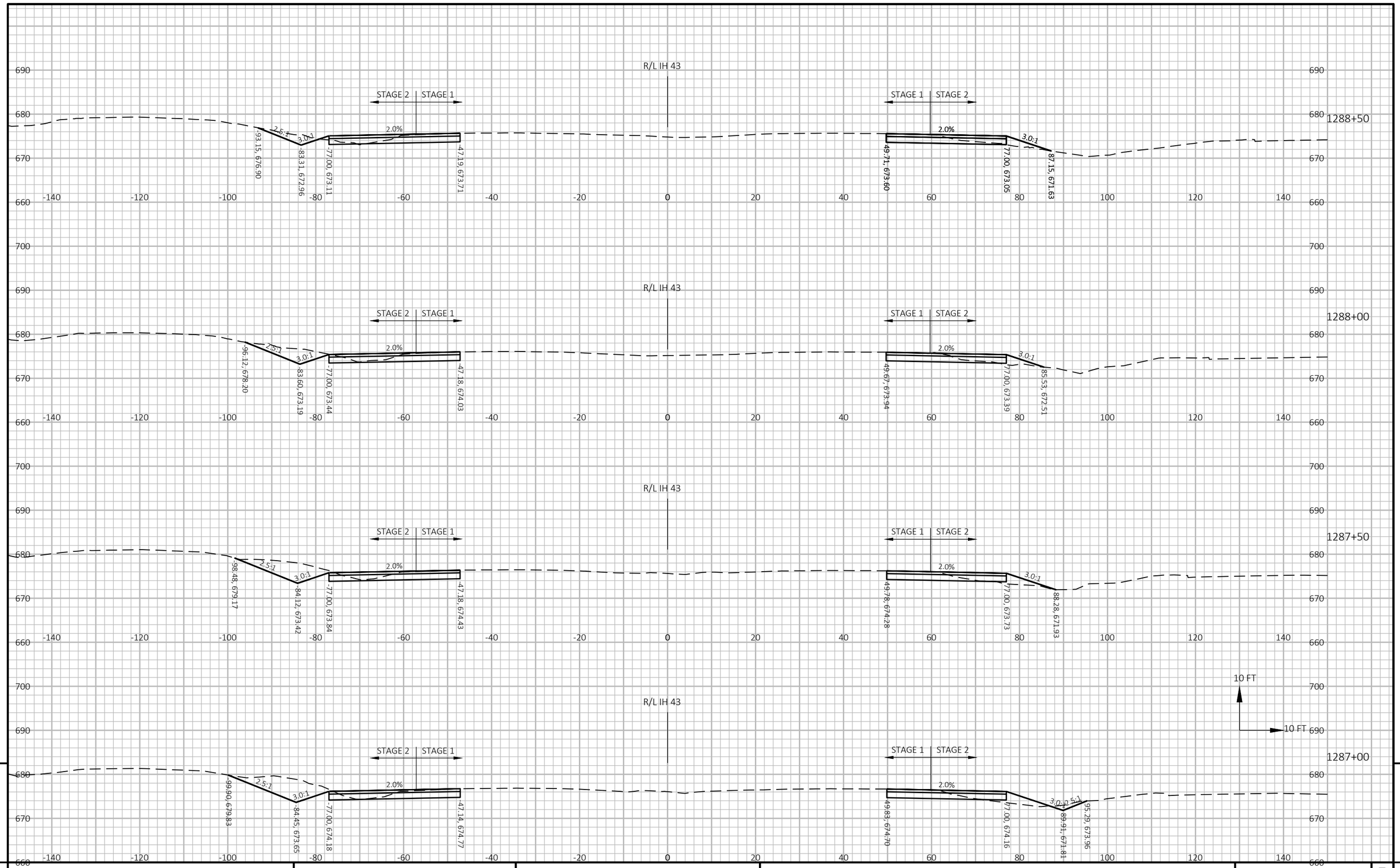
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 476	E

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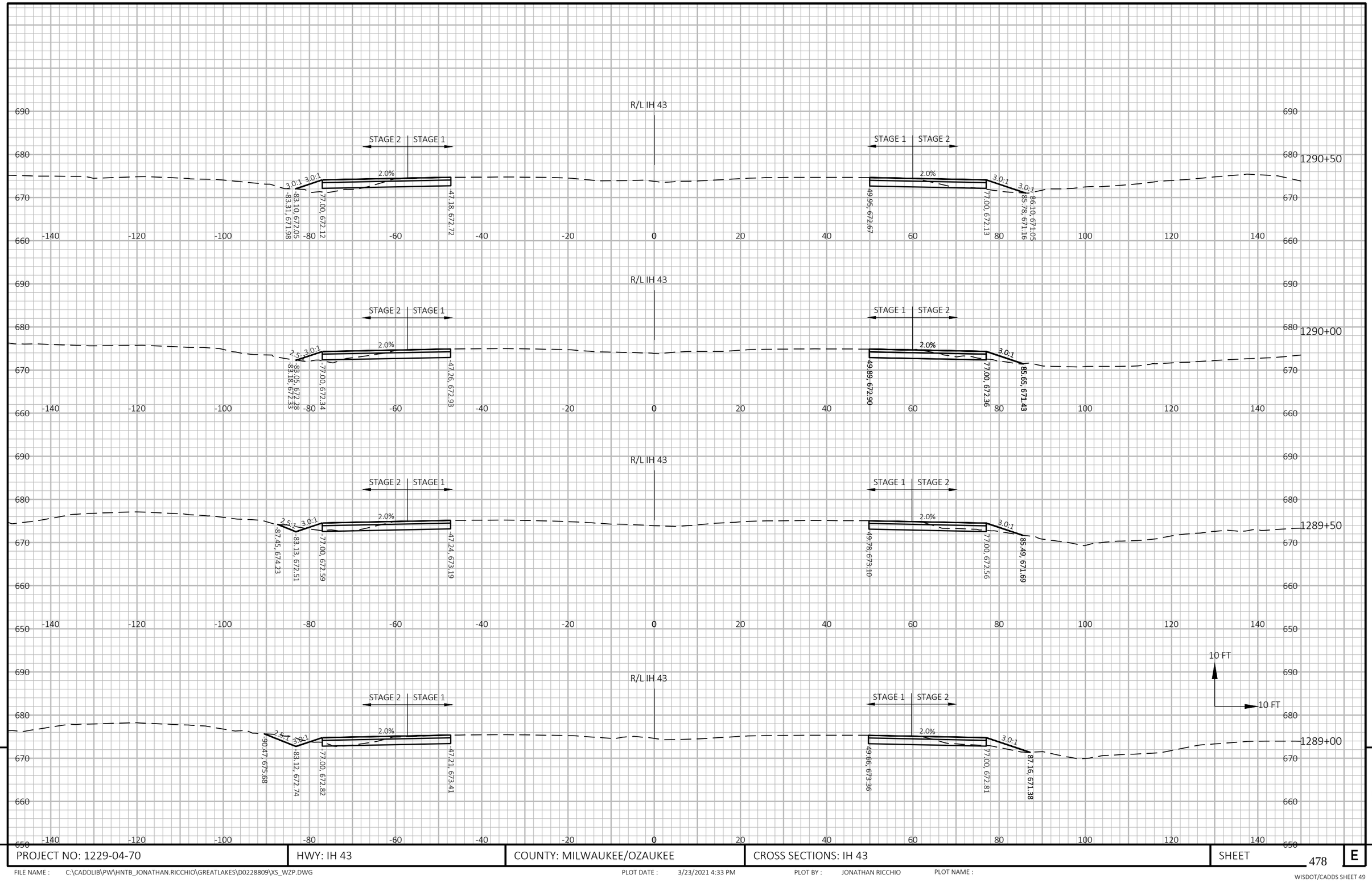
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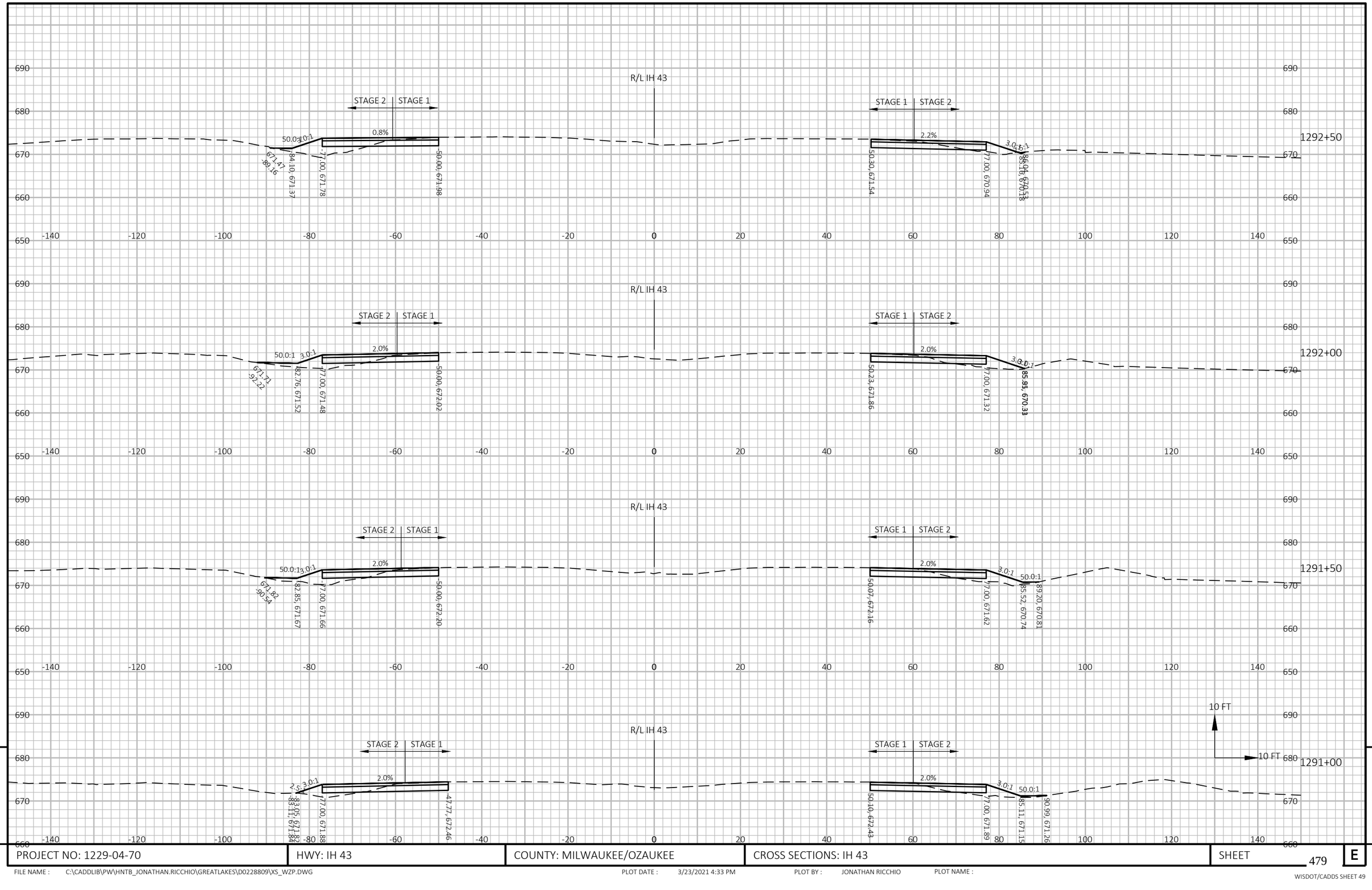
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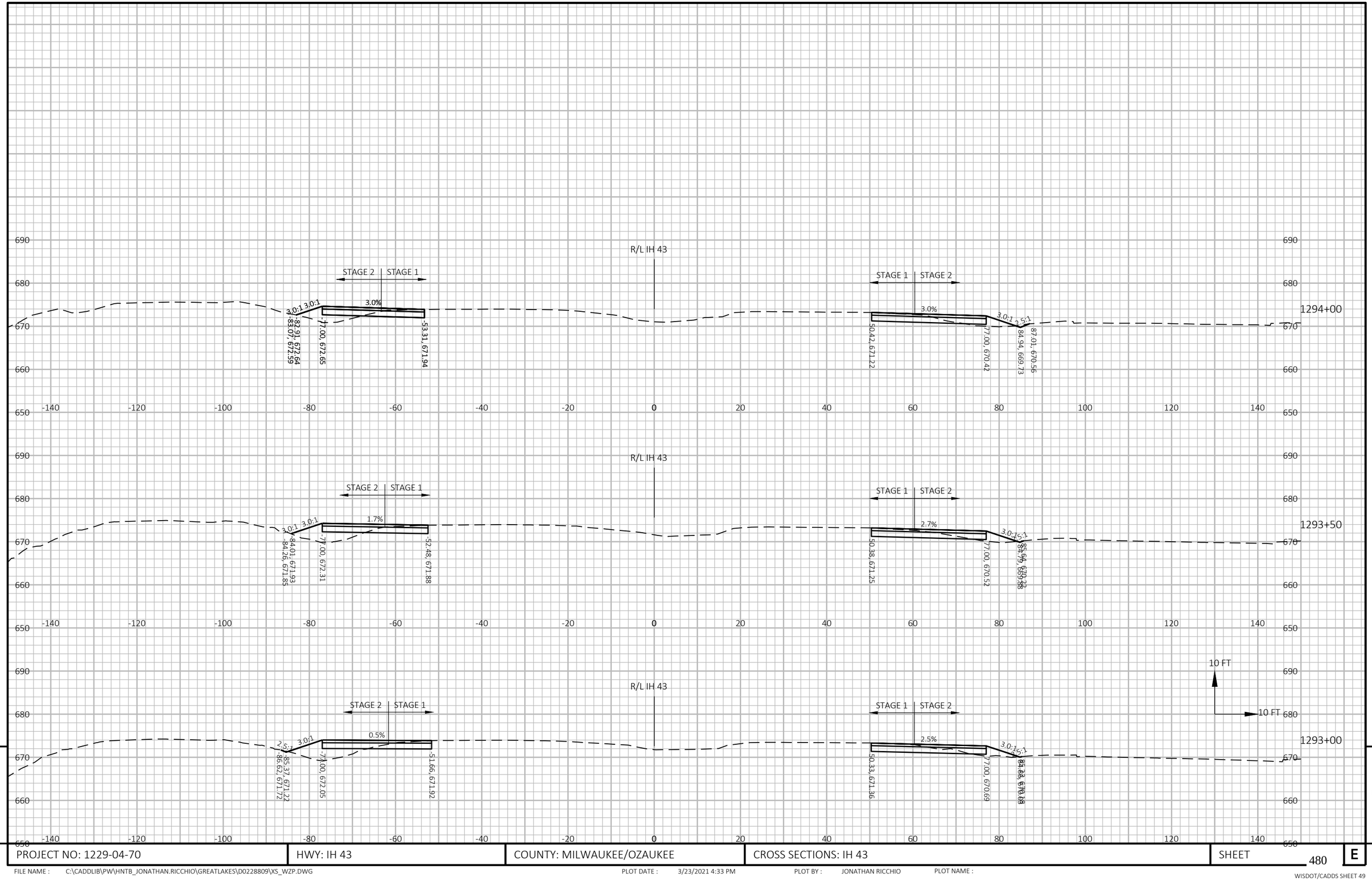
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 479	E

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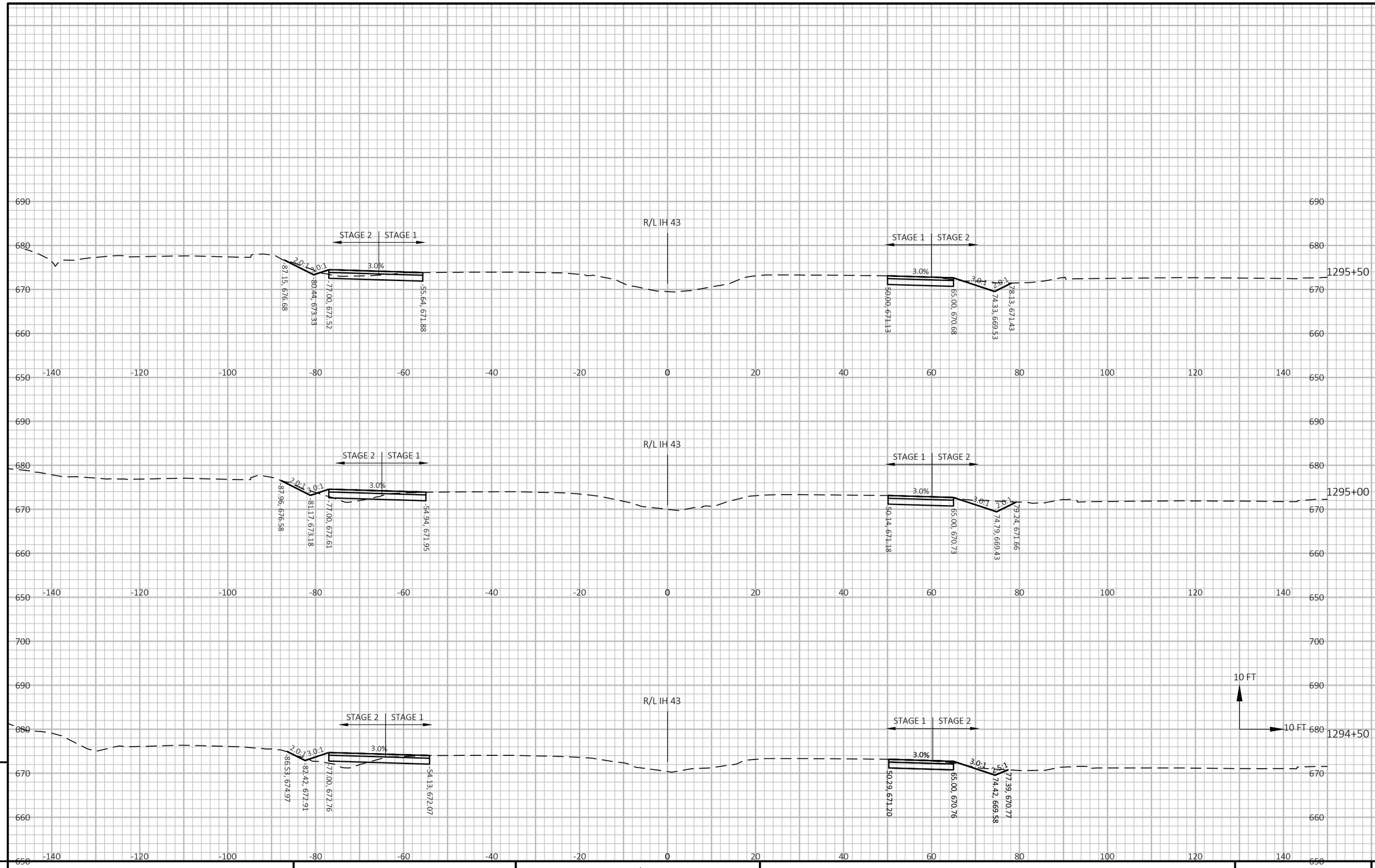
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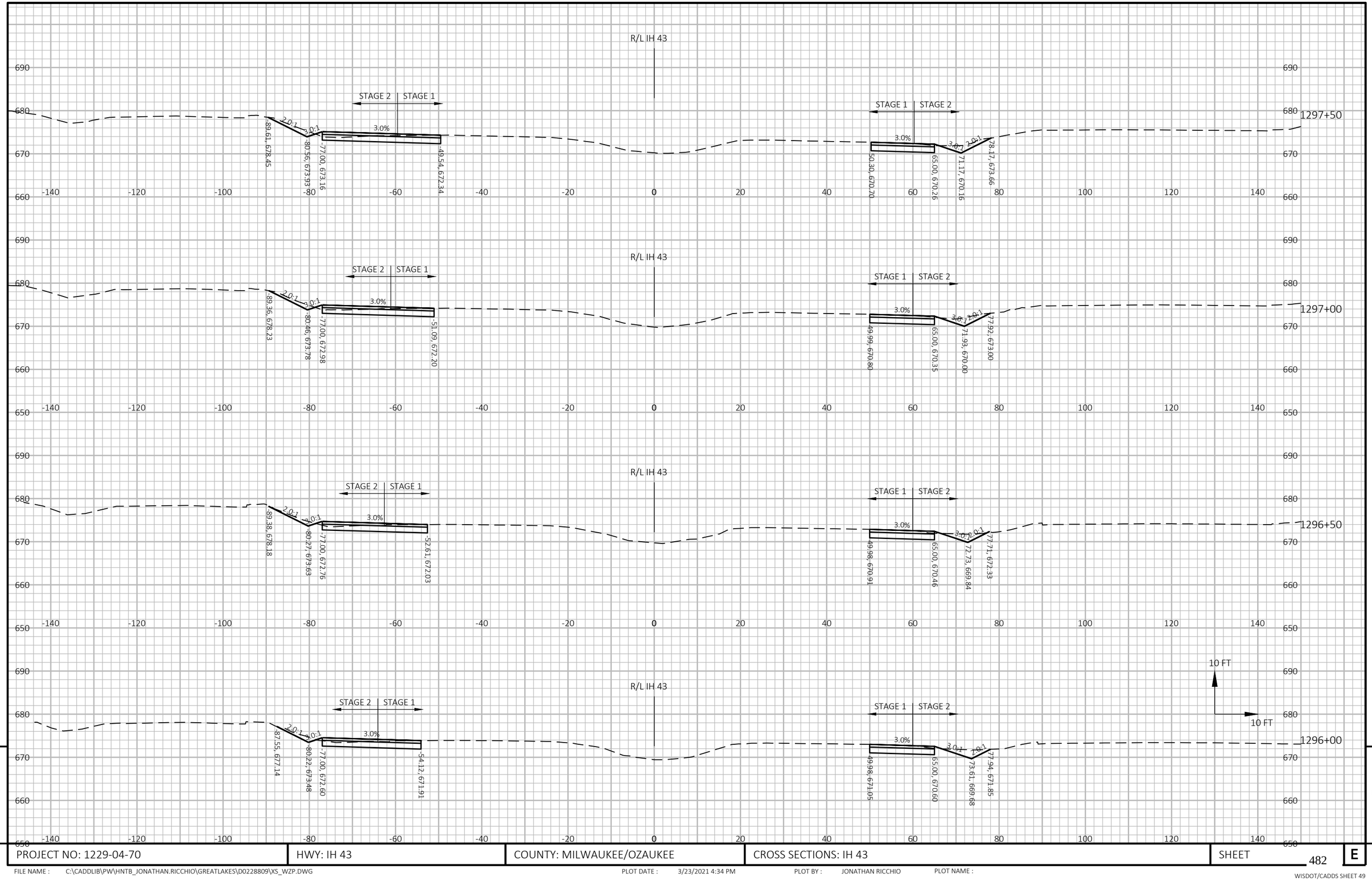
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 481	E

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WISDOT/CADDS SHEET 49

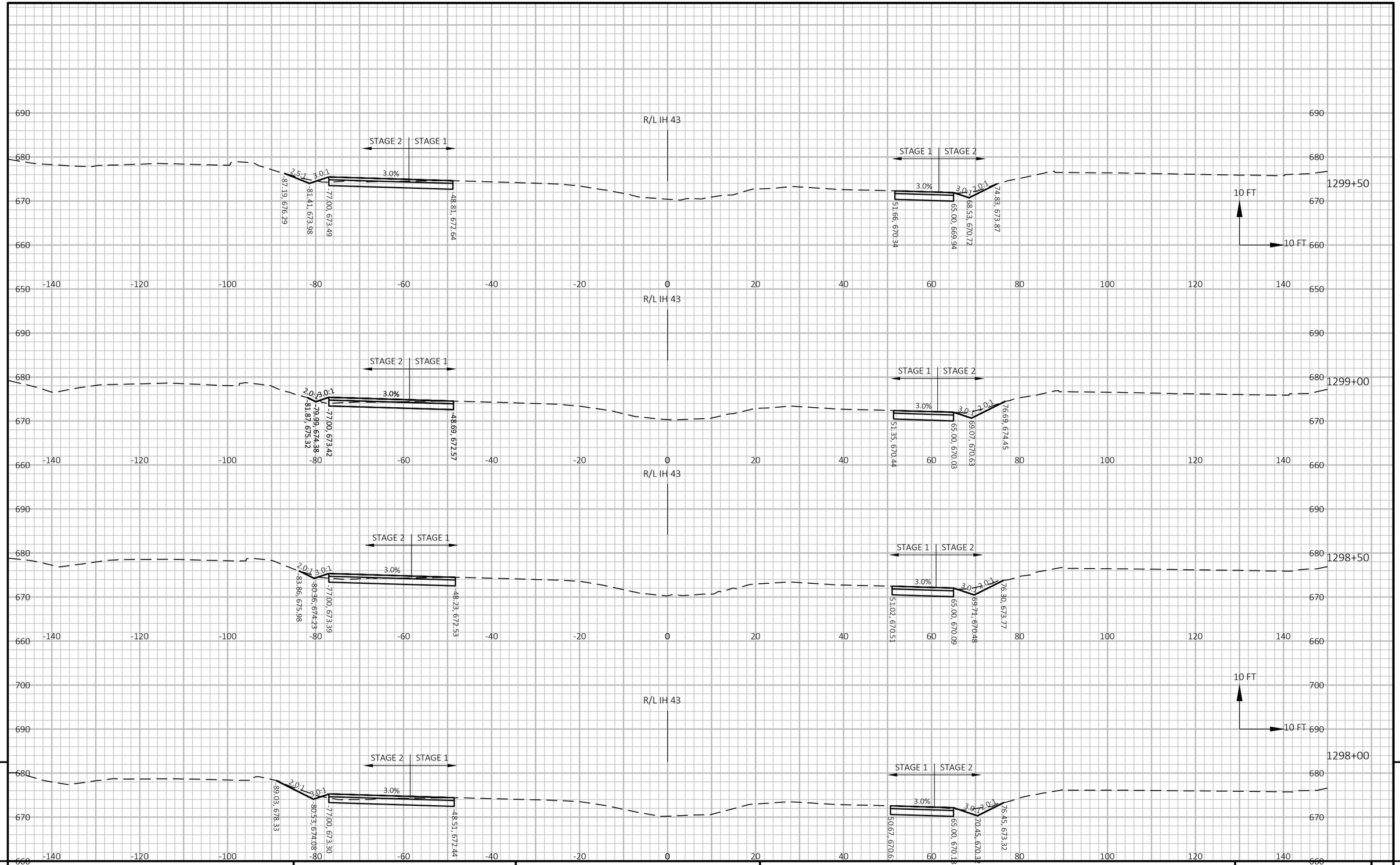


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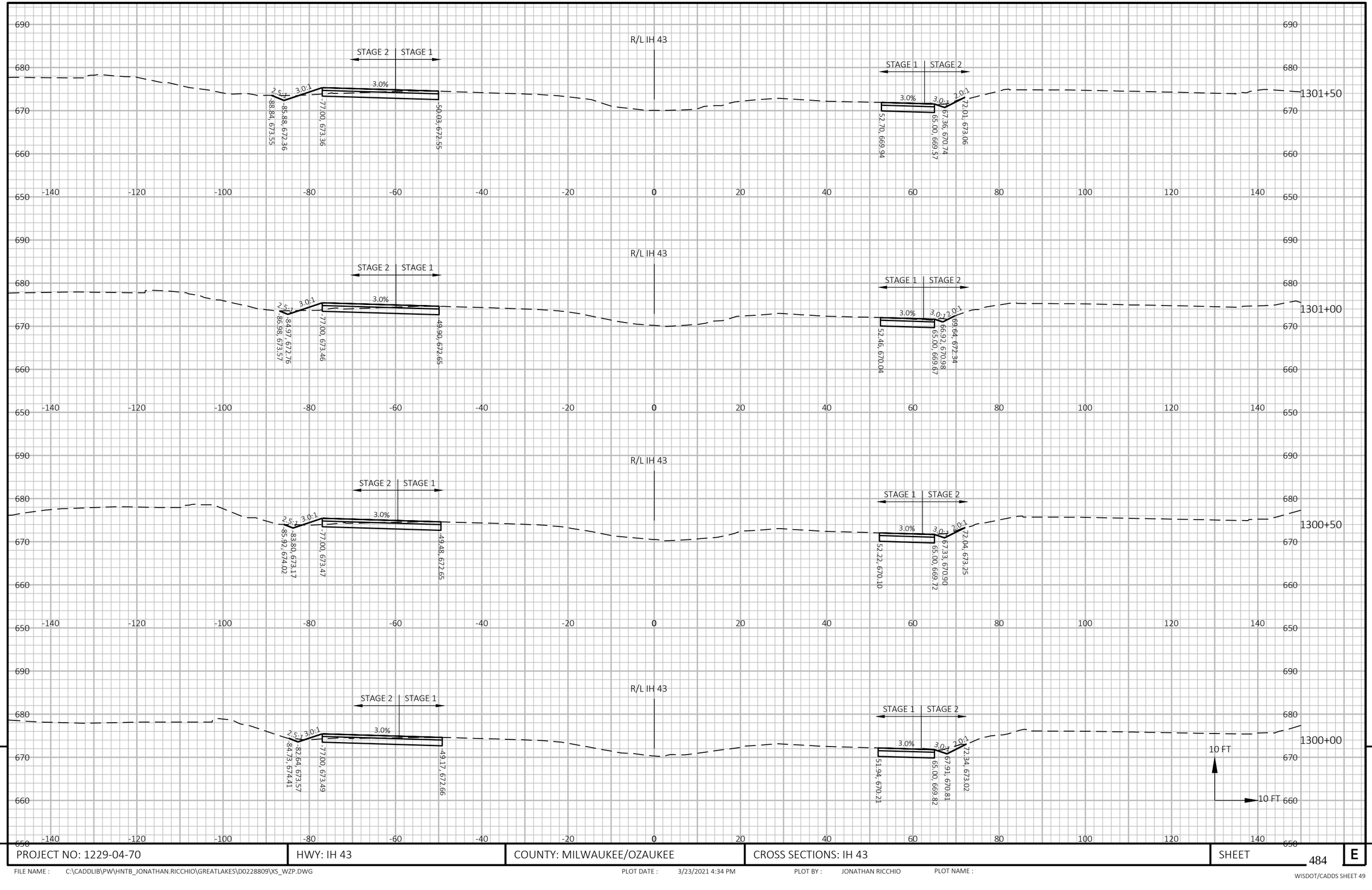
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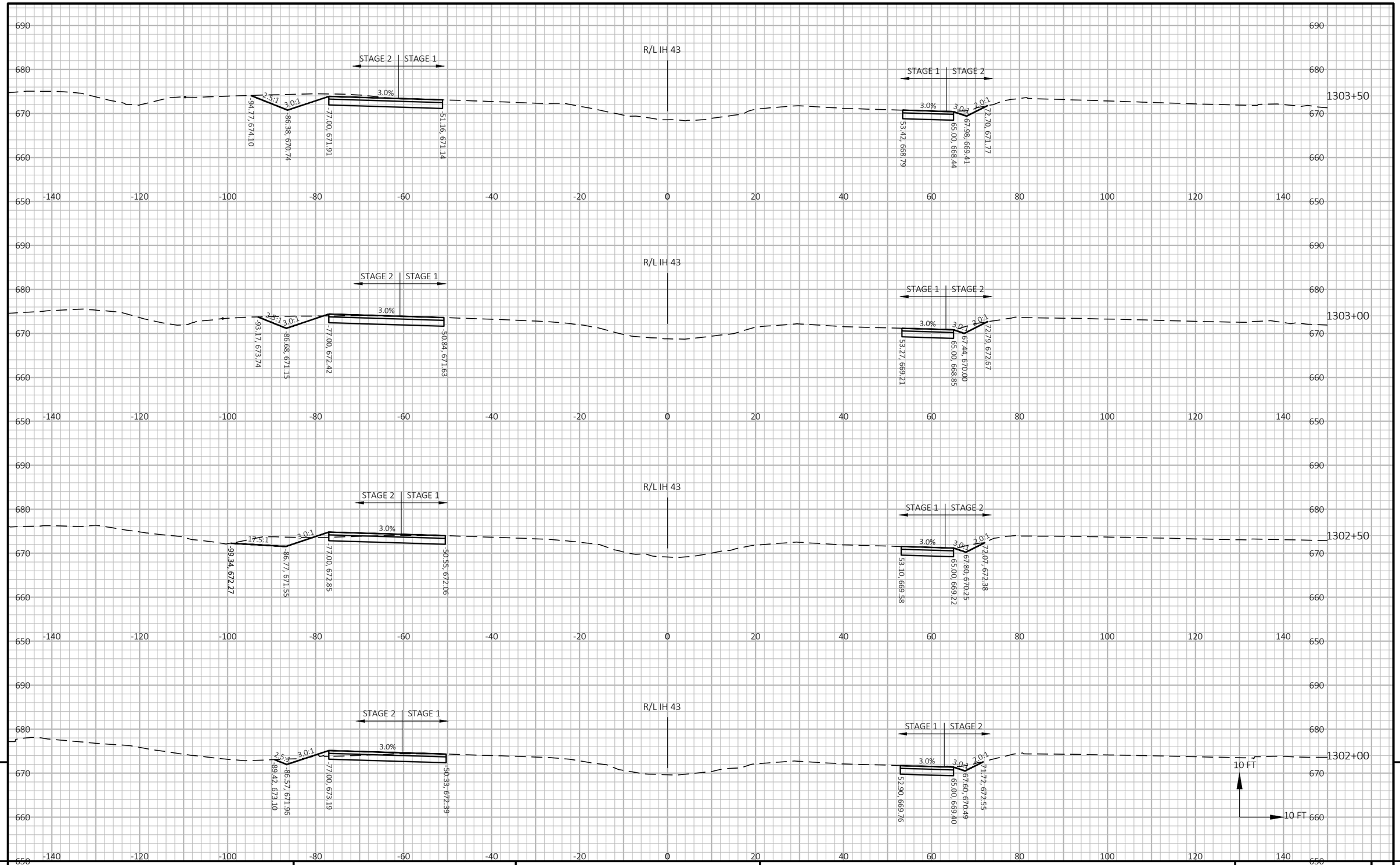
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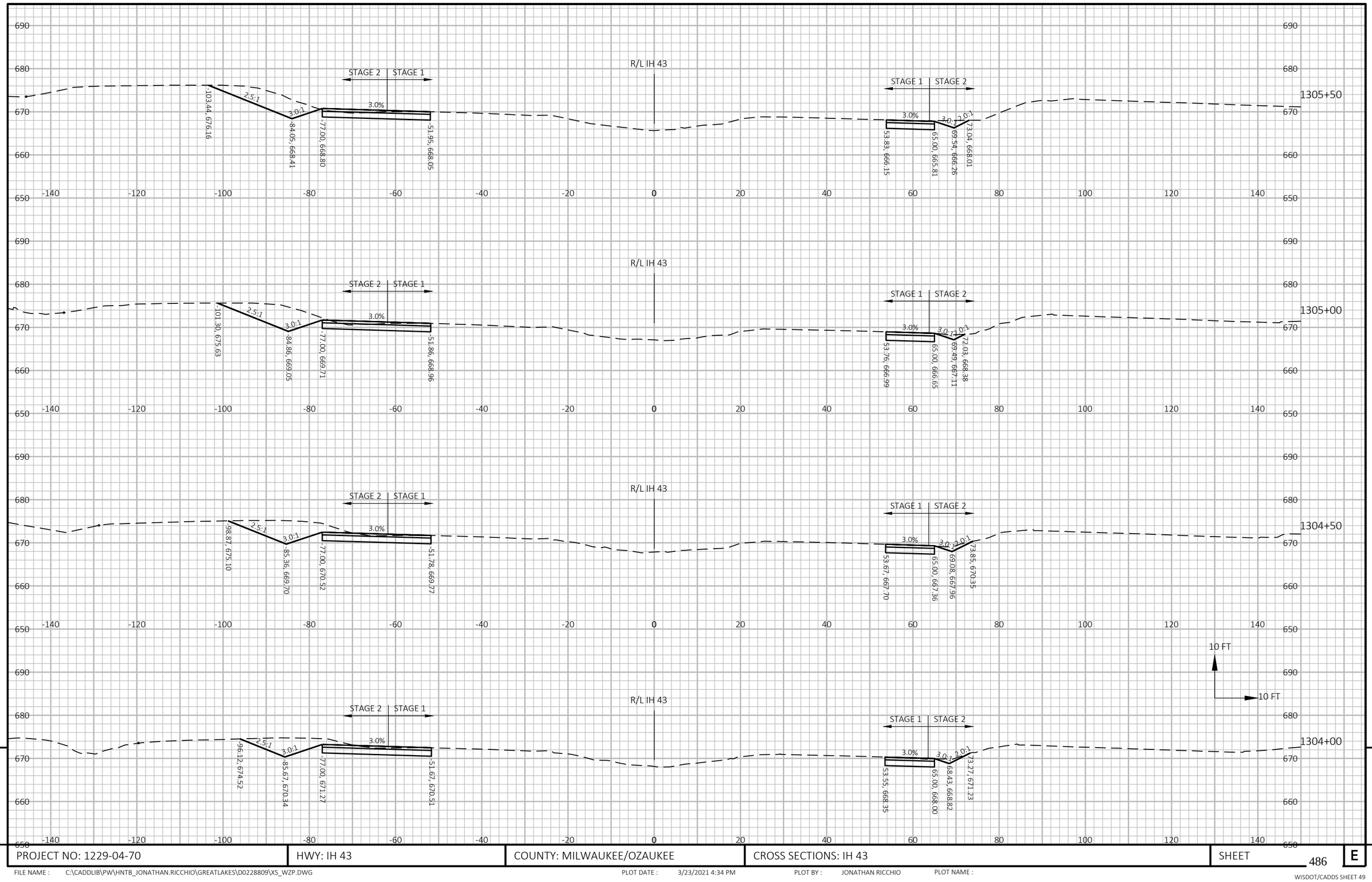
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 485	E

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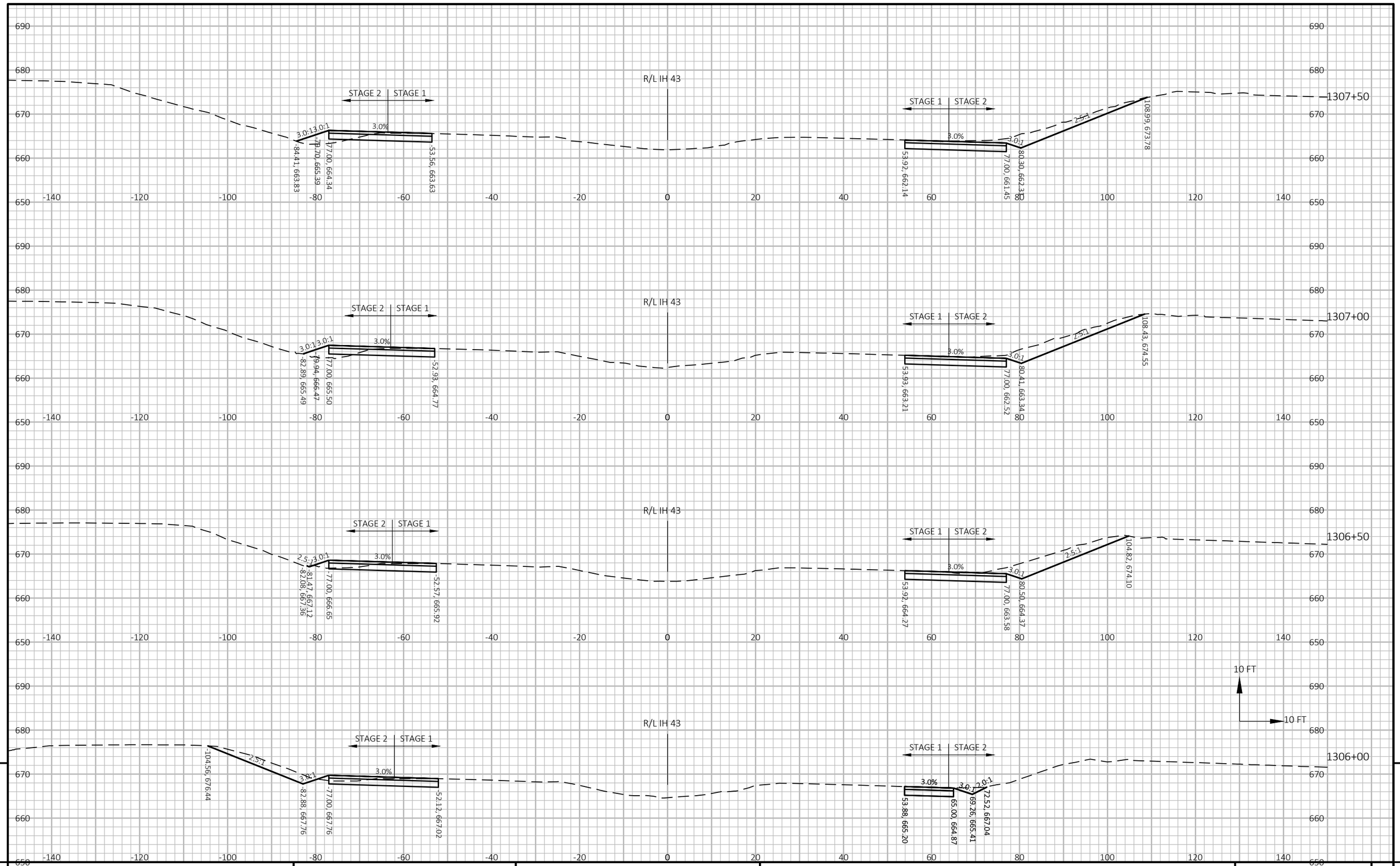
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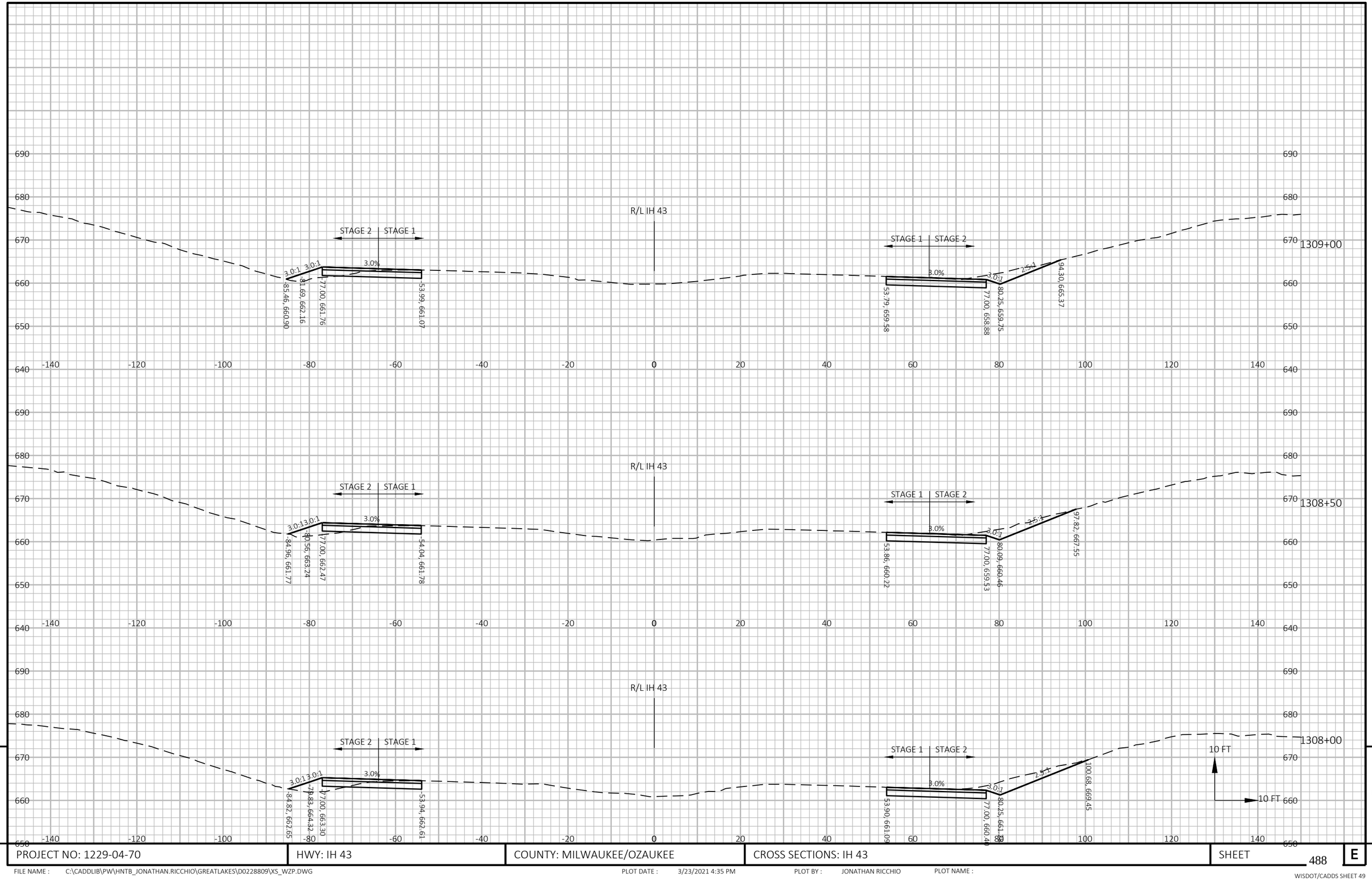
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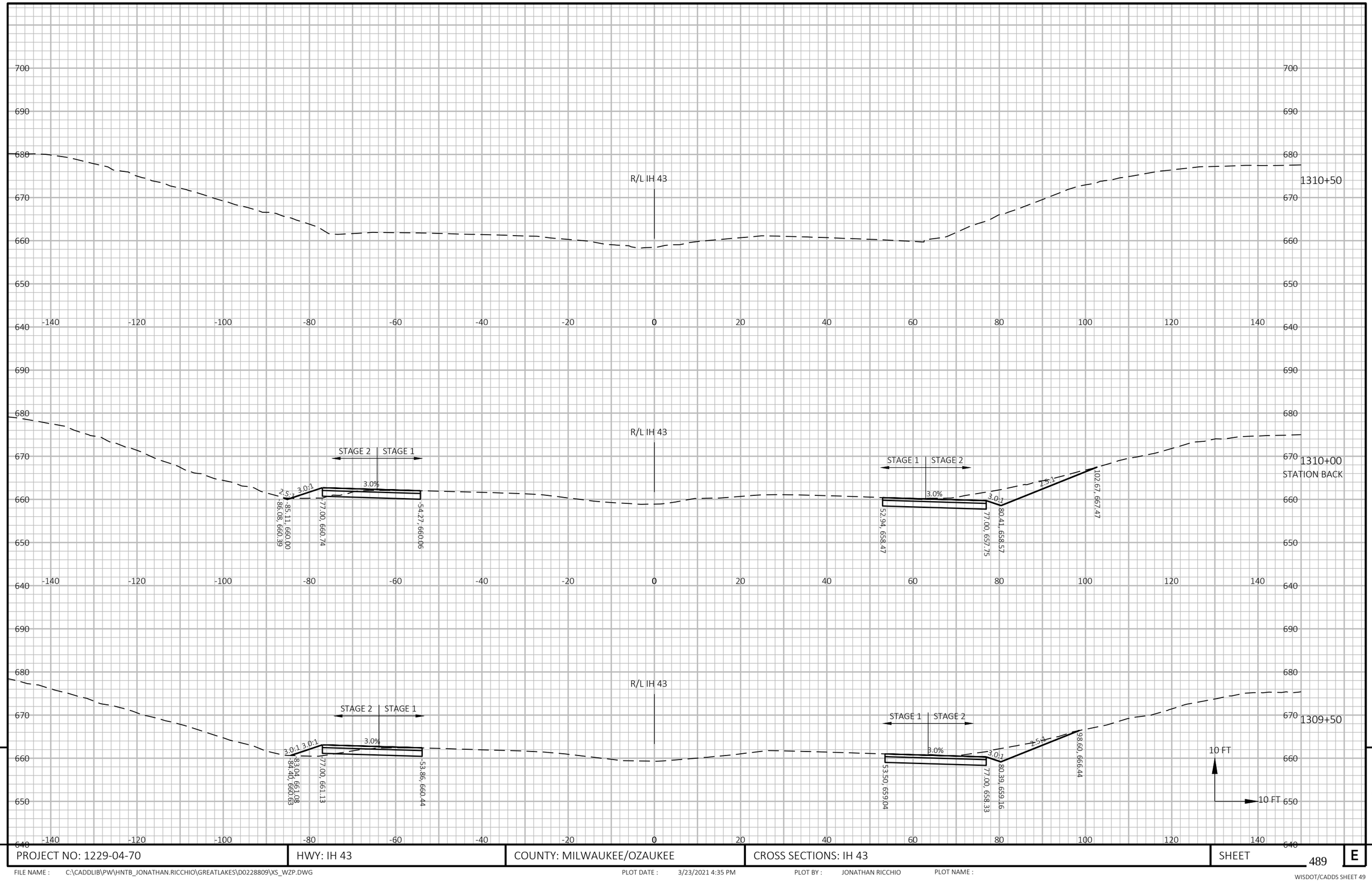
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 488	E

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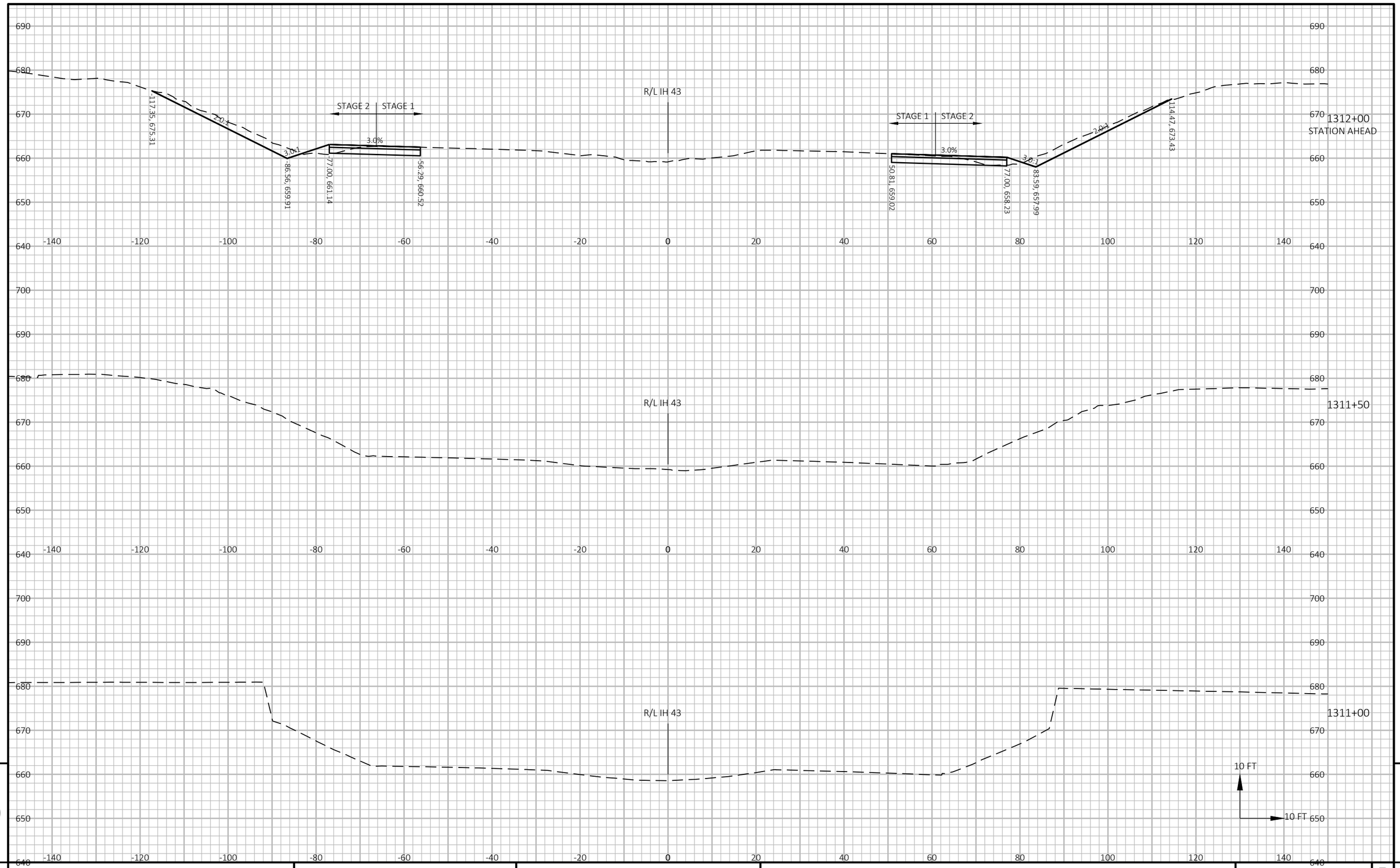


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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 489	E

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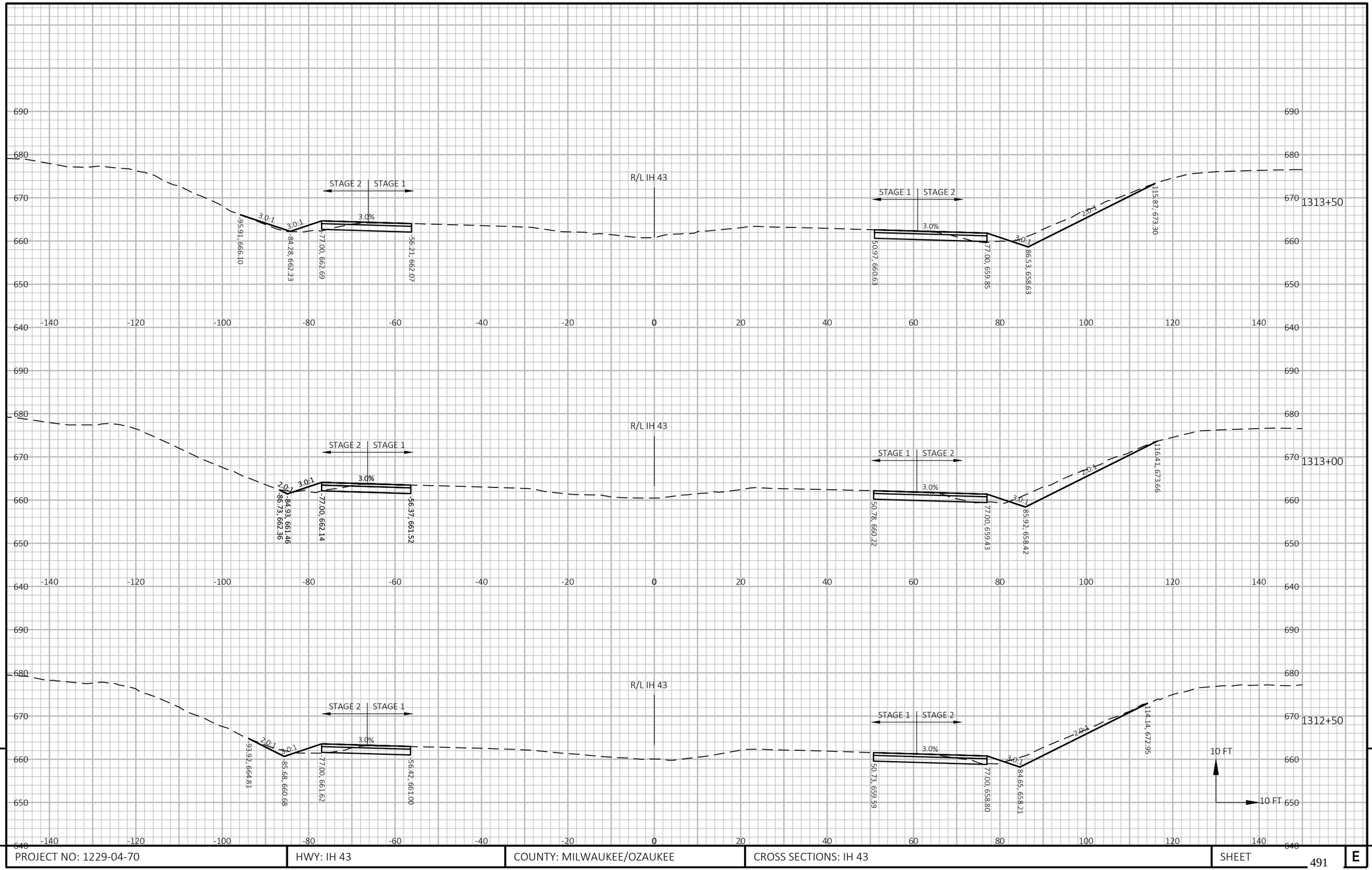
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 491	E

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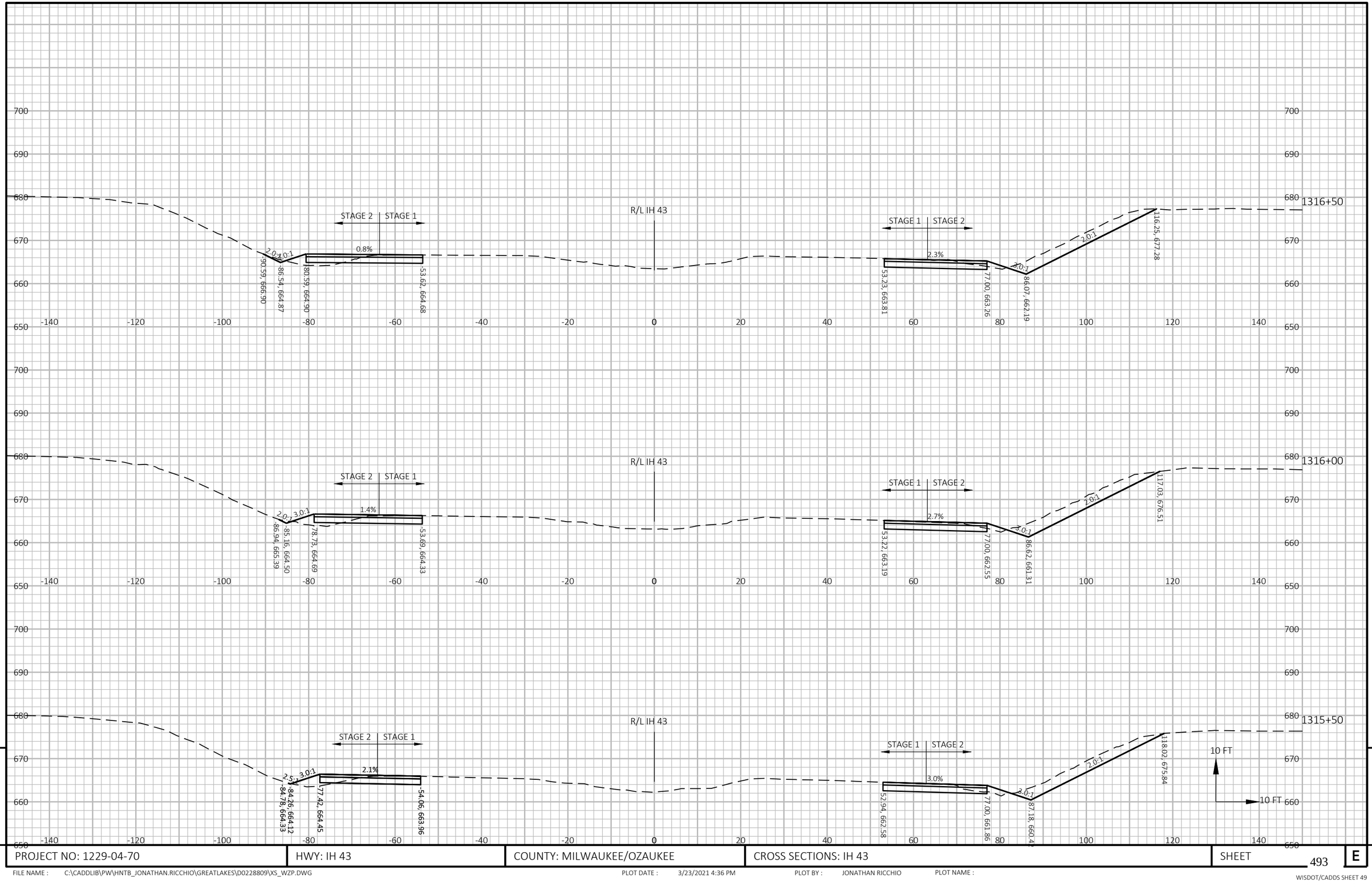
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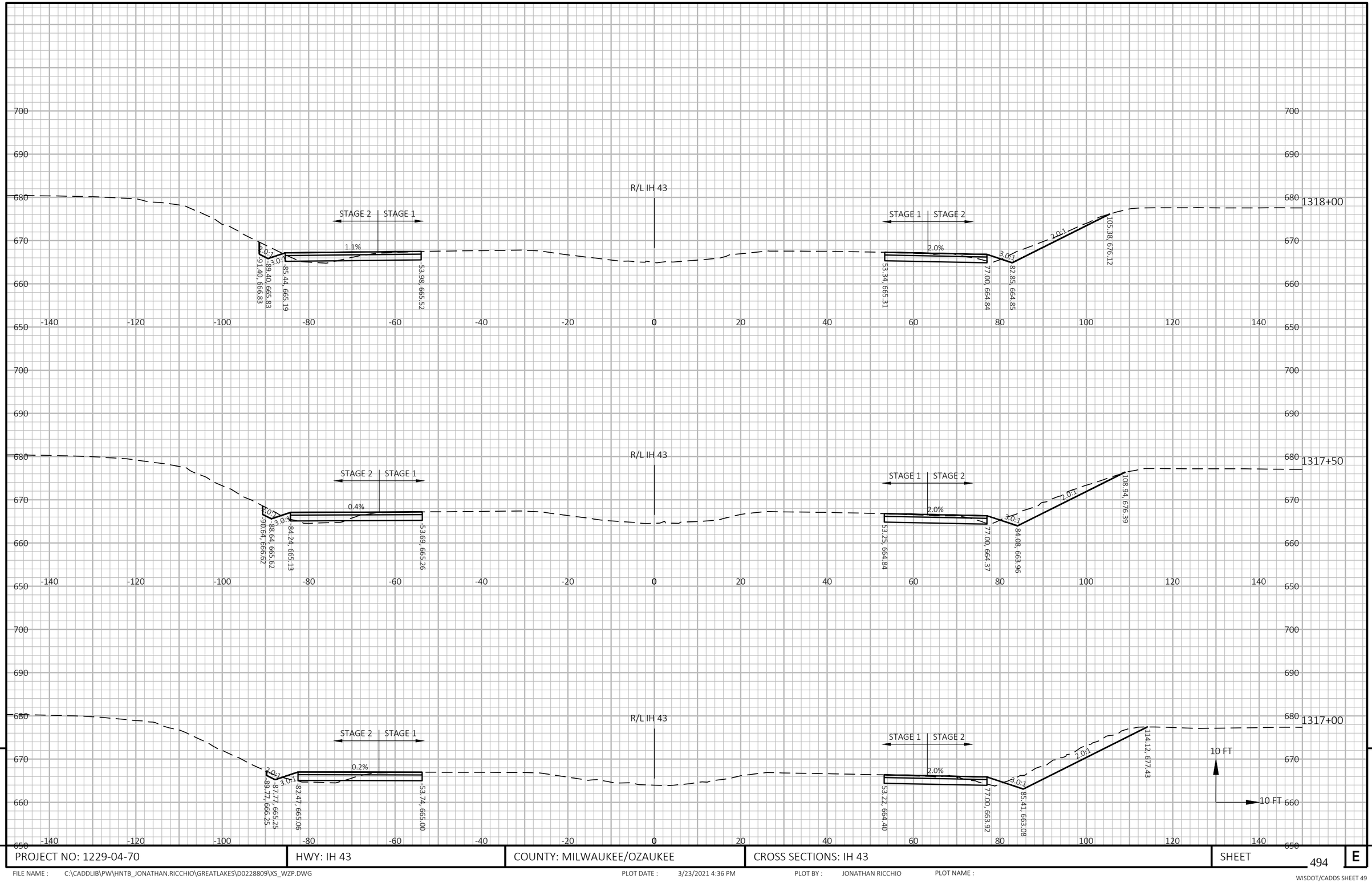


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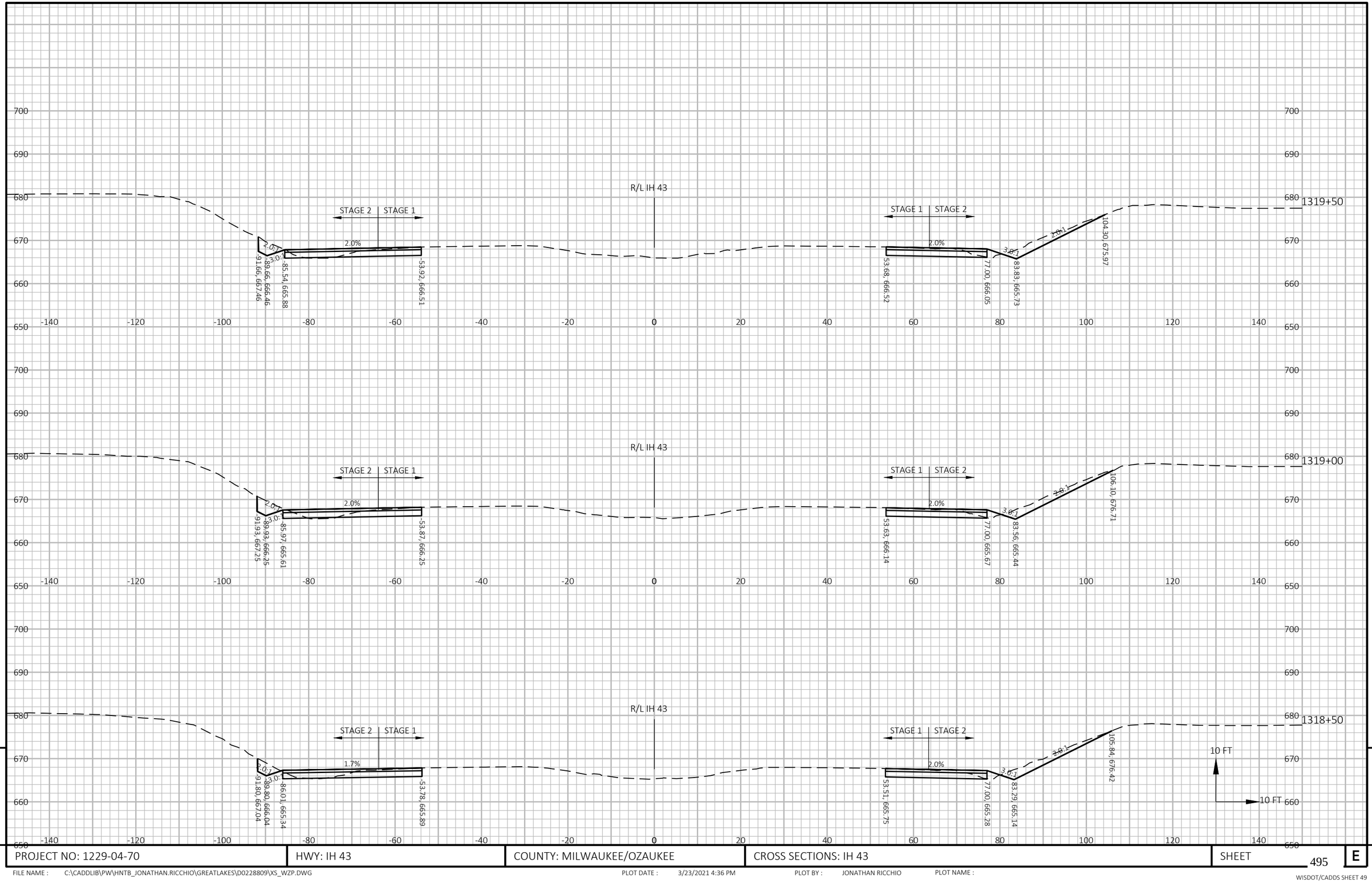
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 494 E

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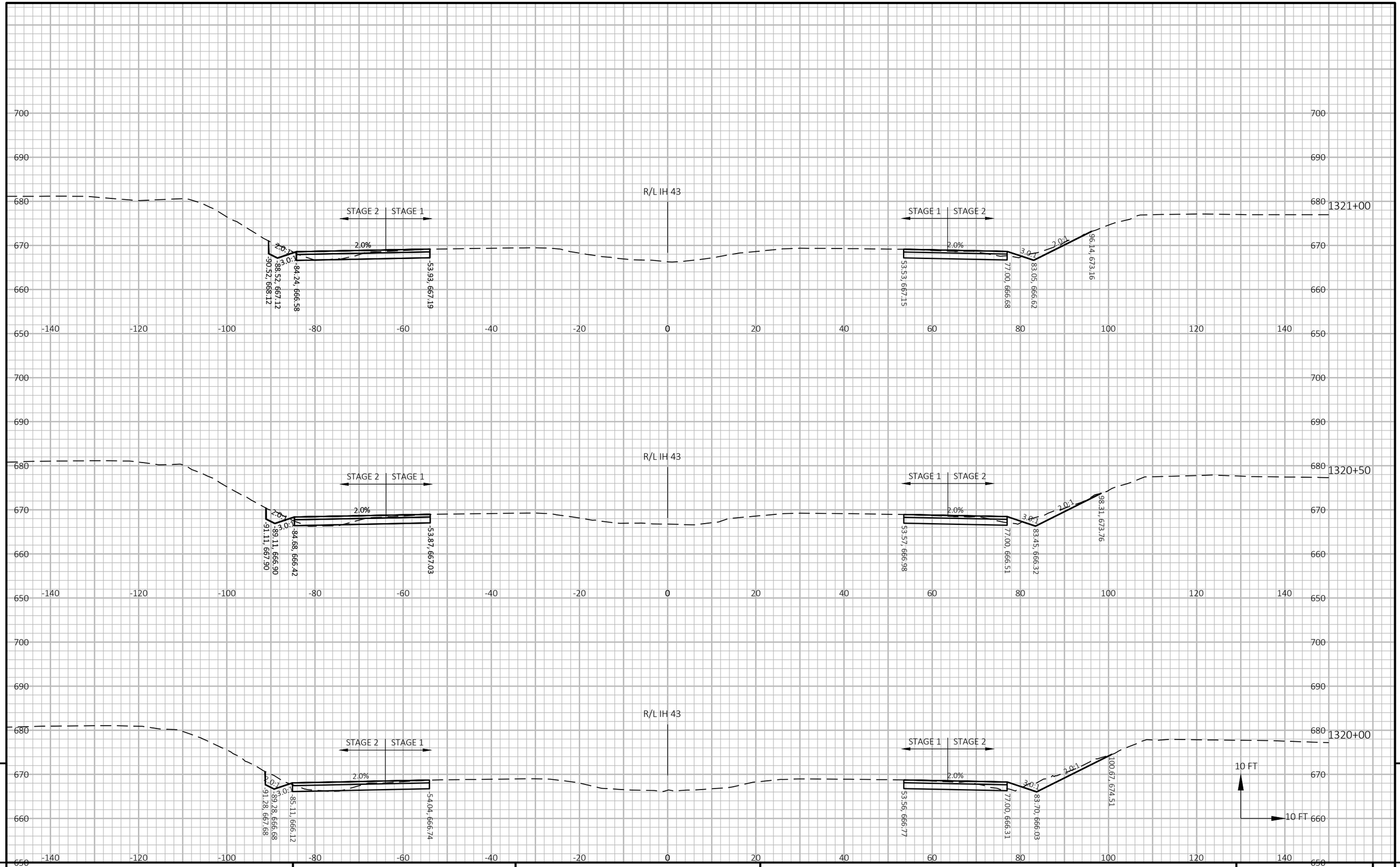


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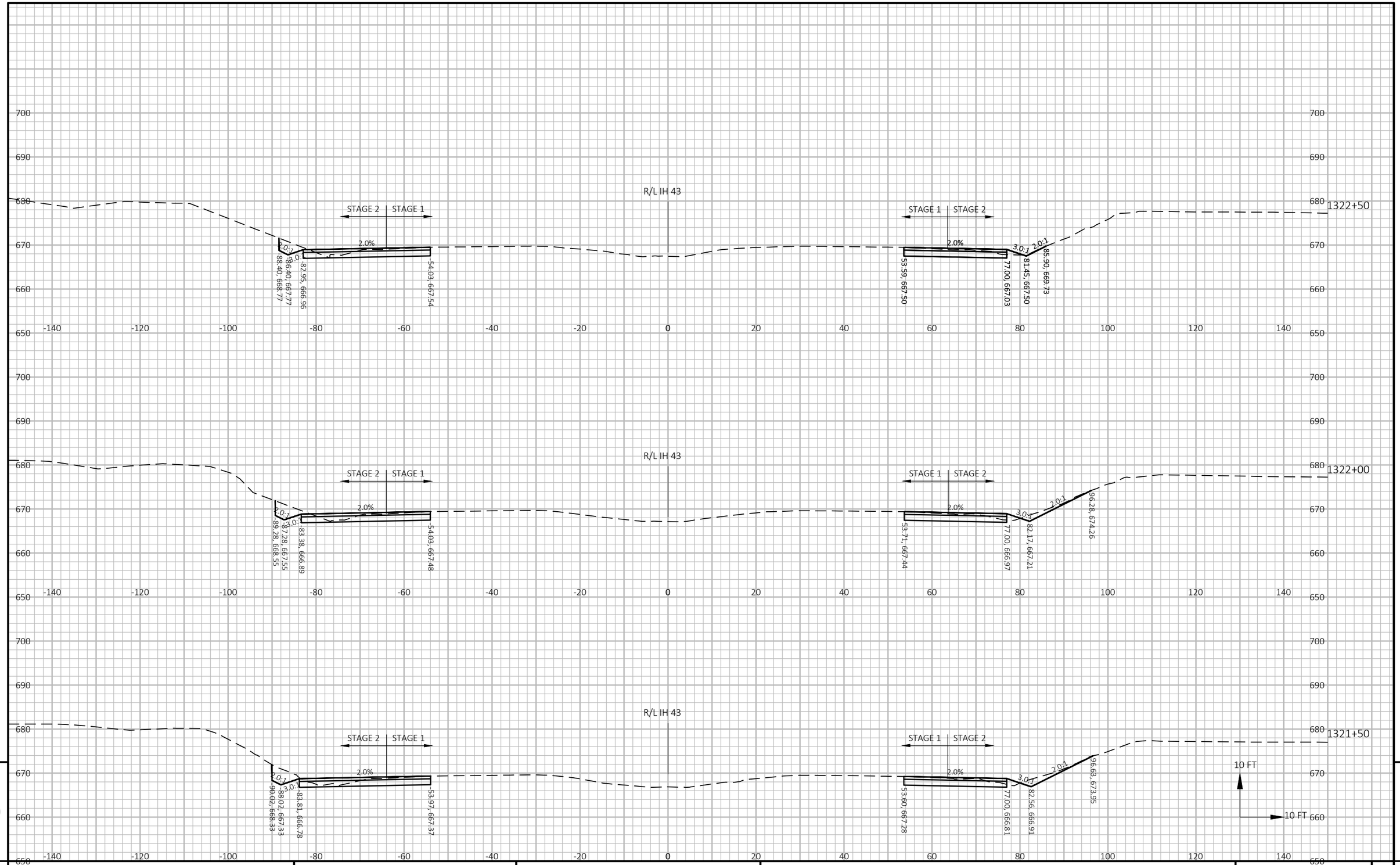
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 496 E

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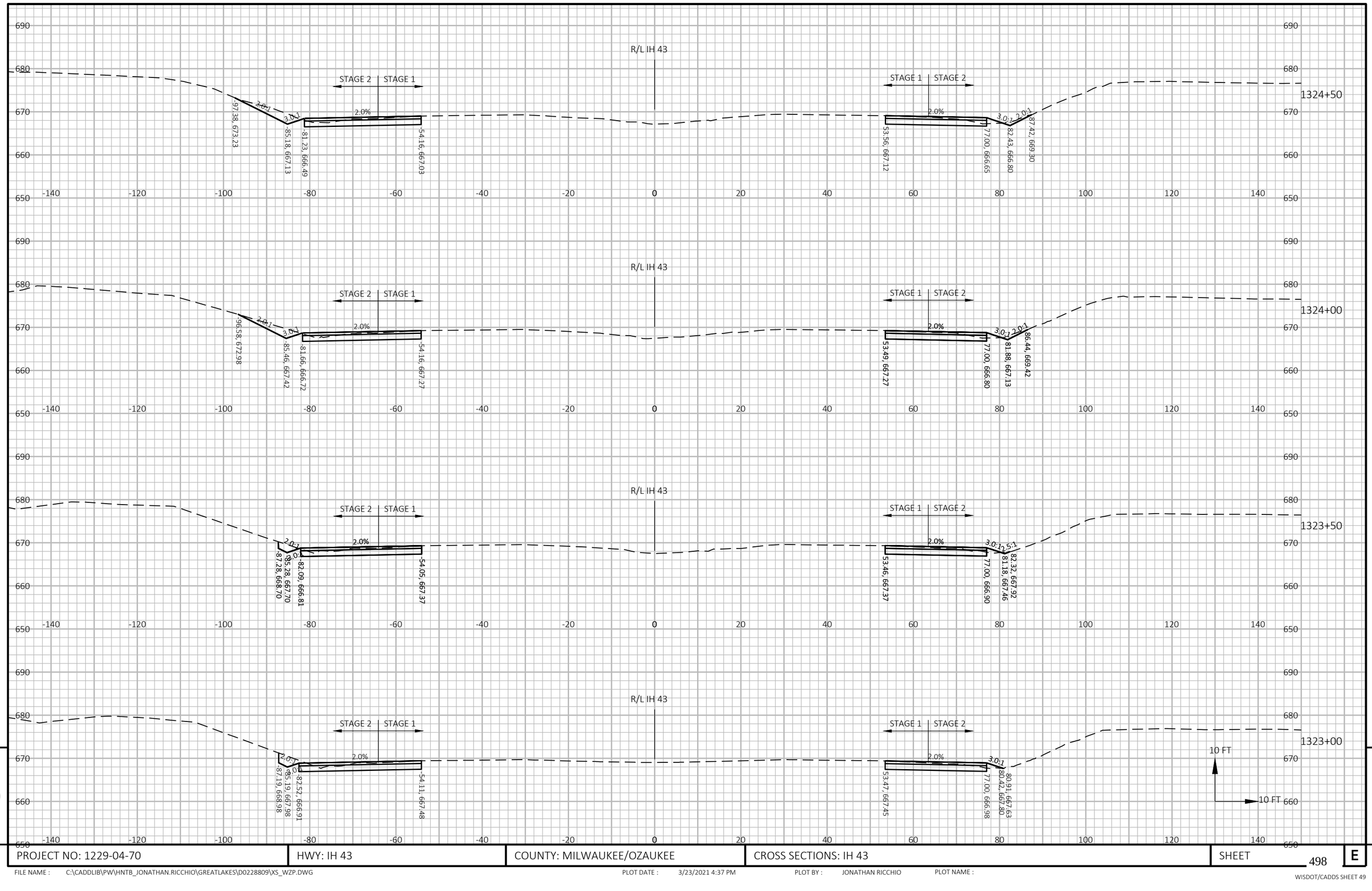
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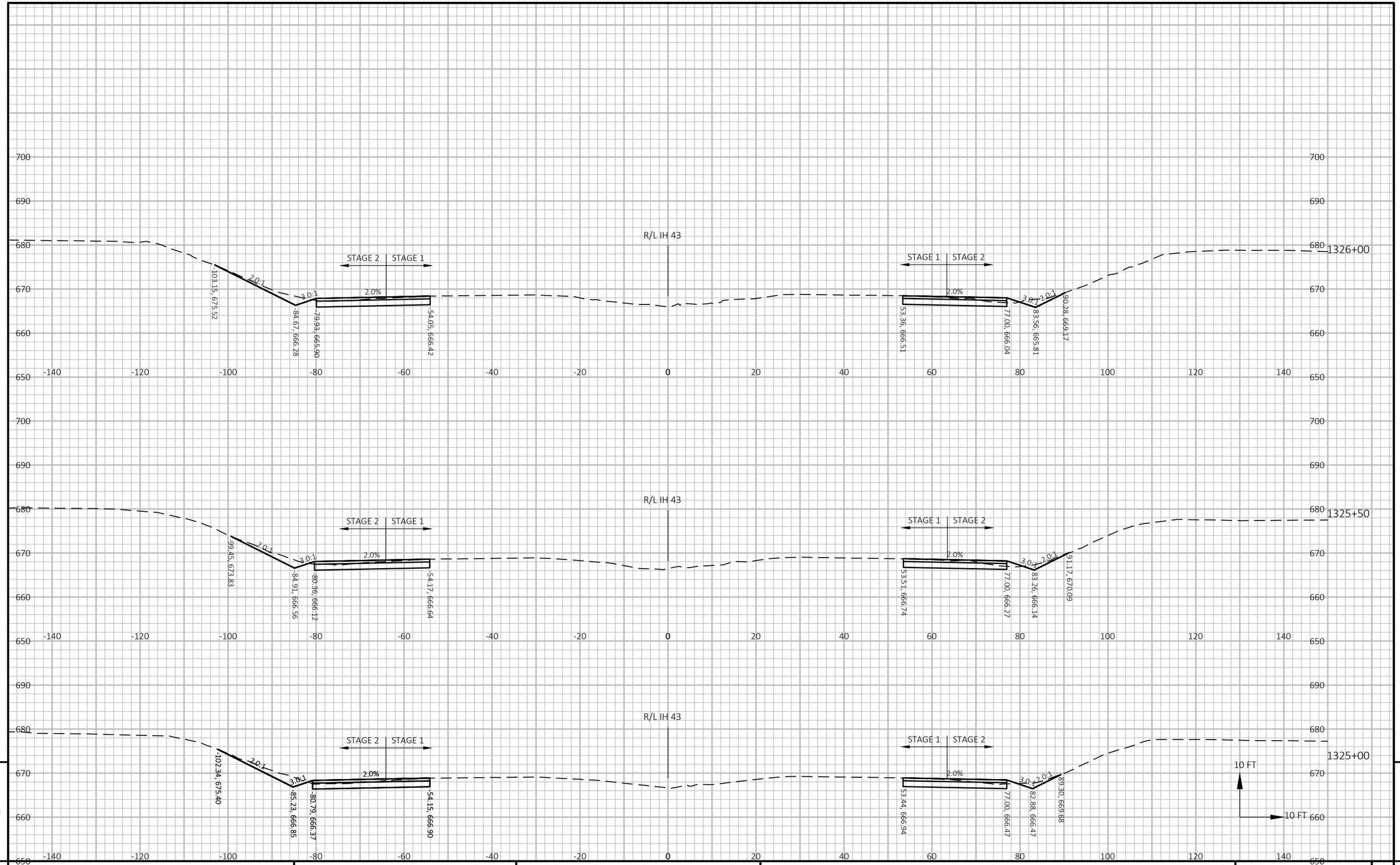
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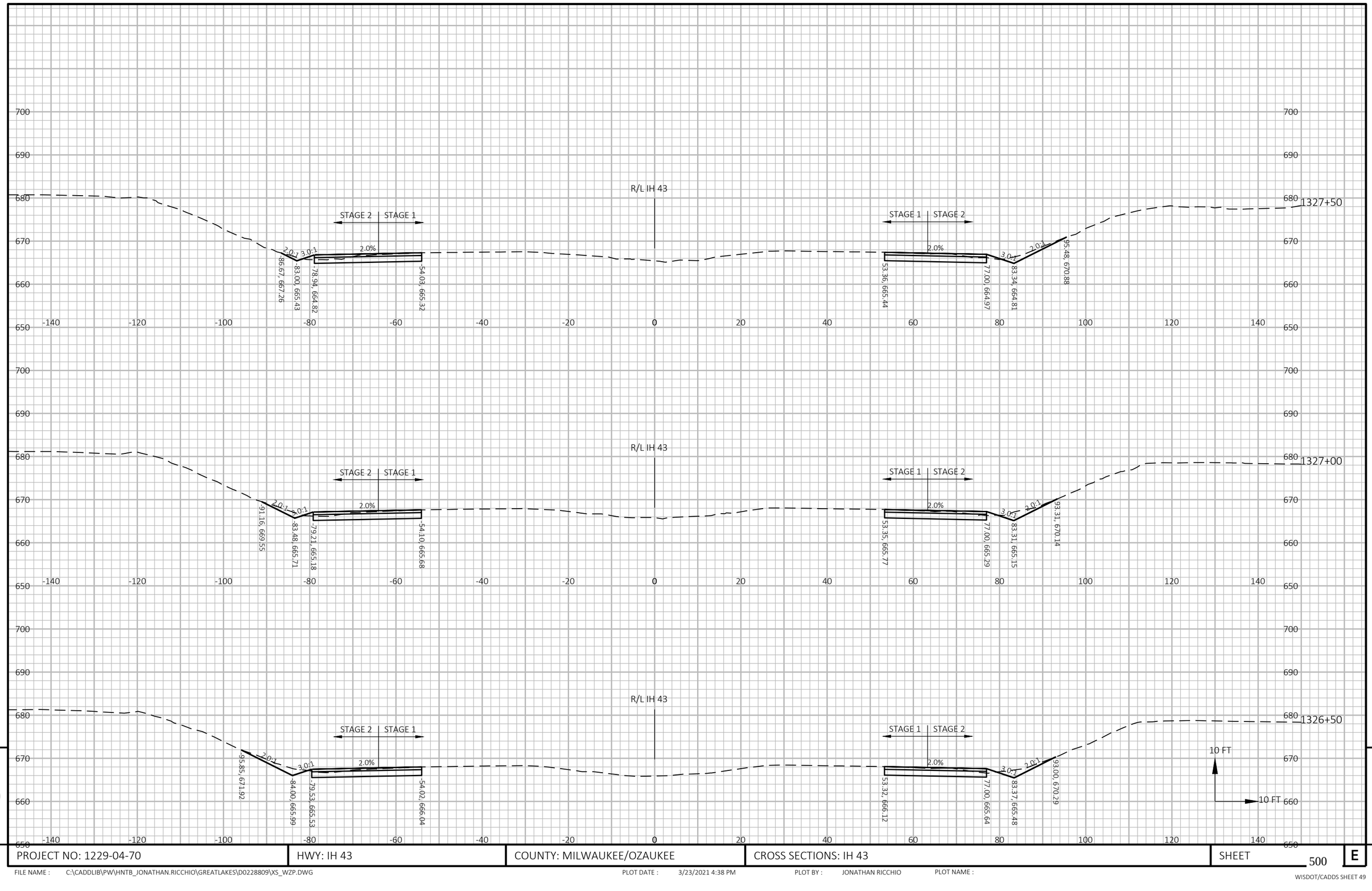


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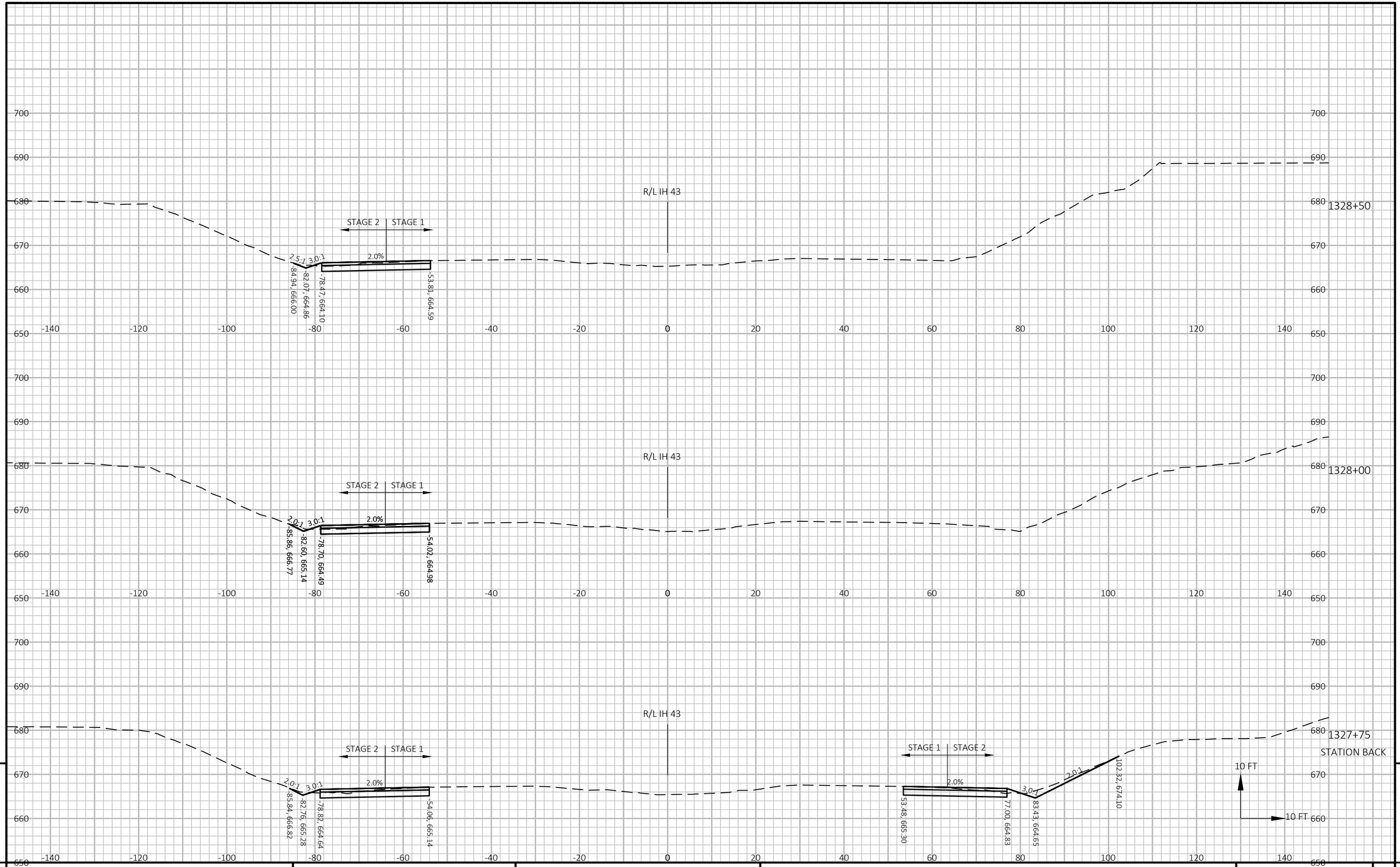


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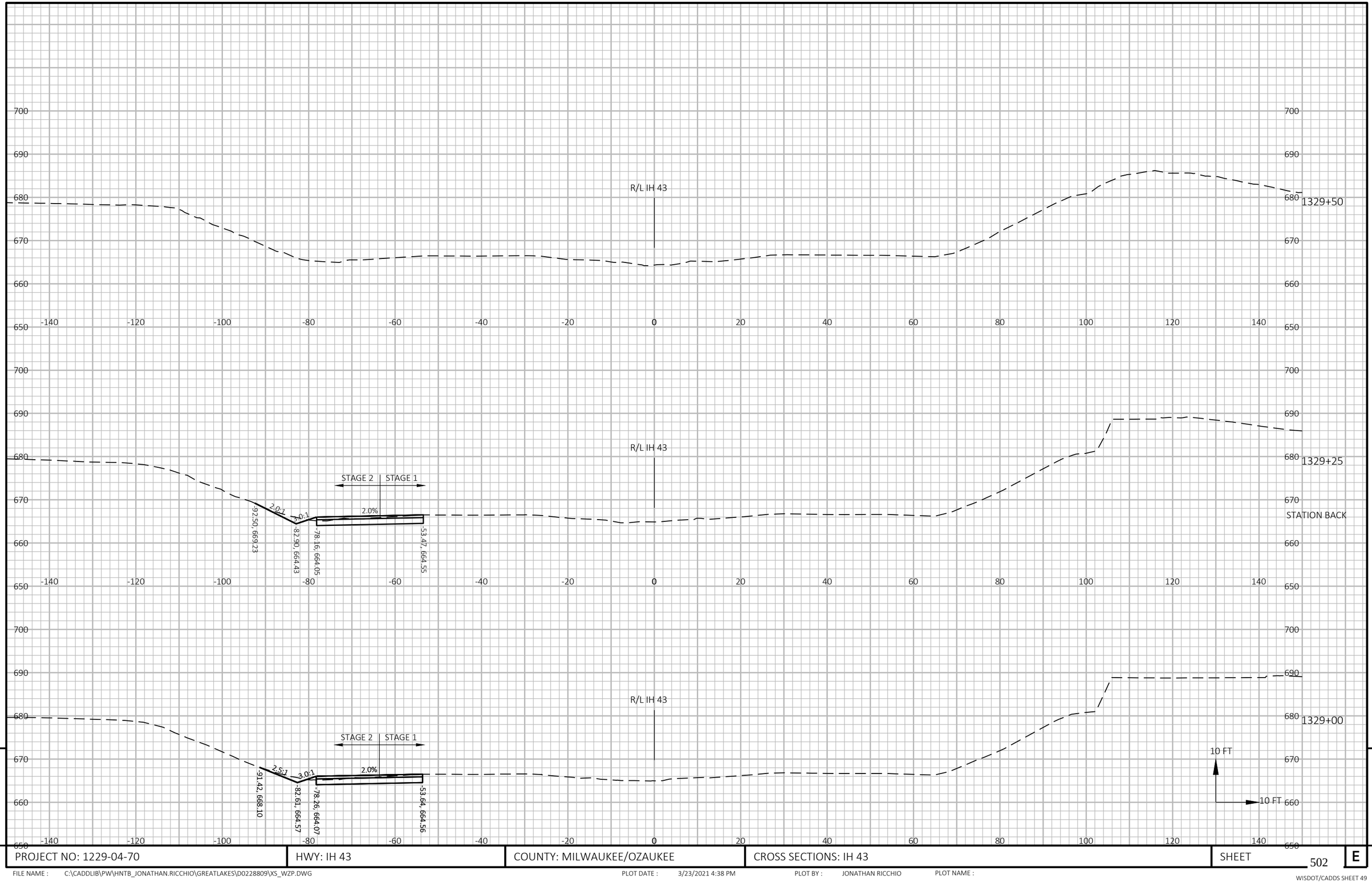
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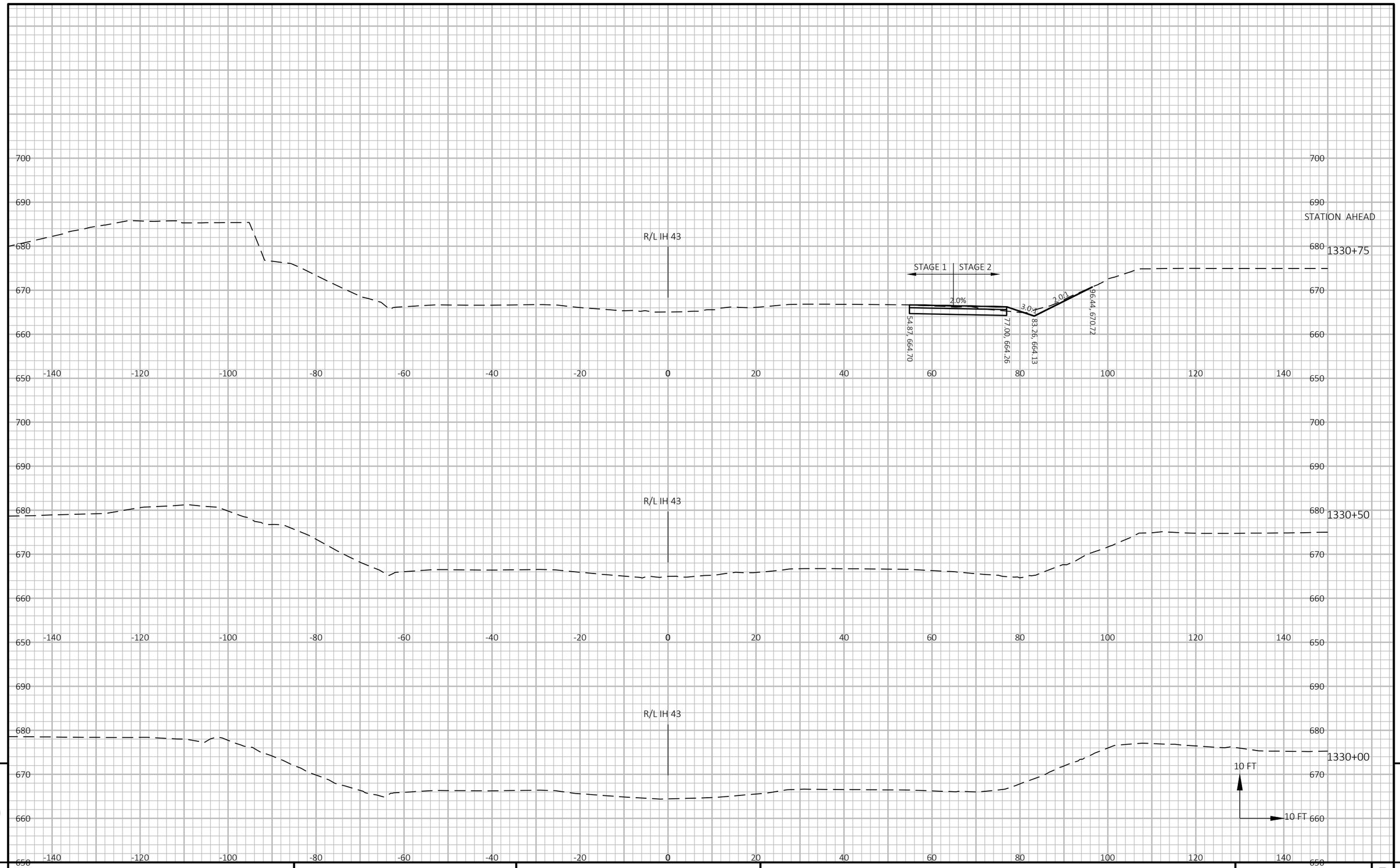


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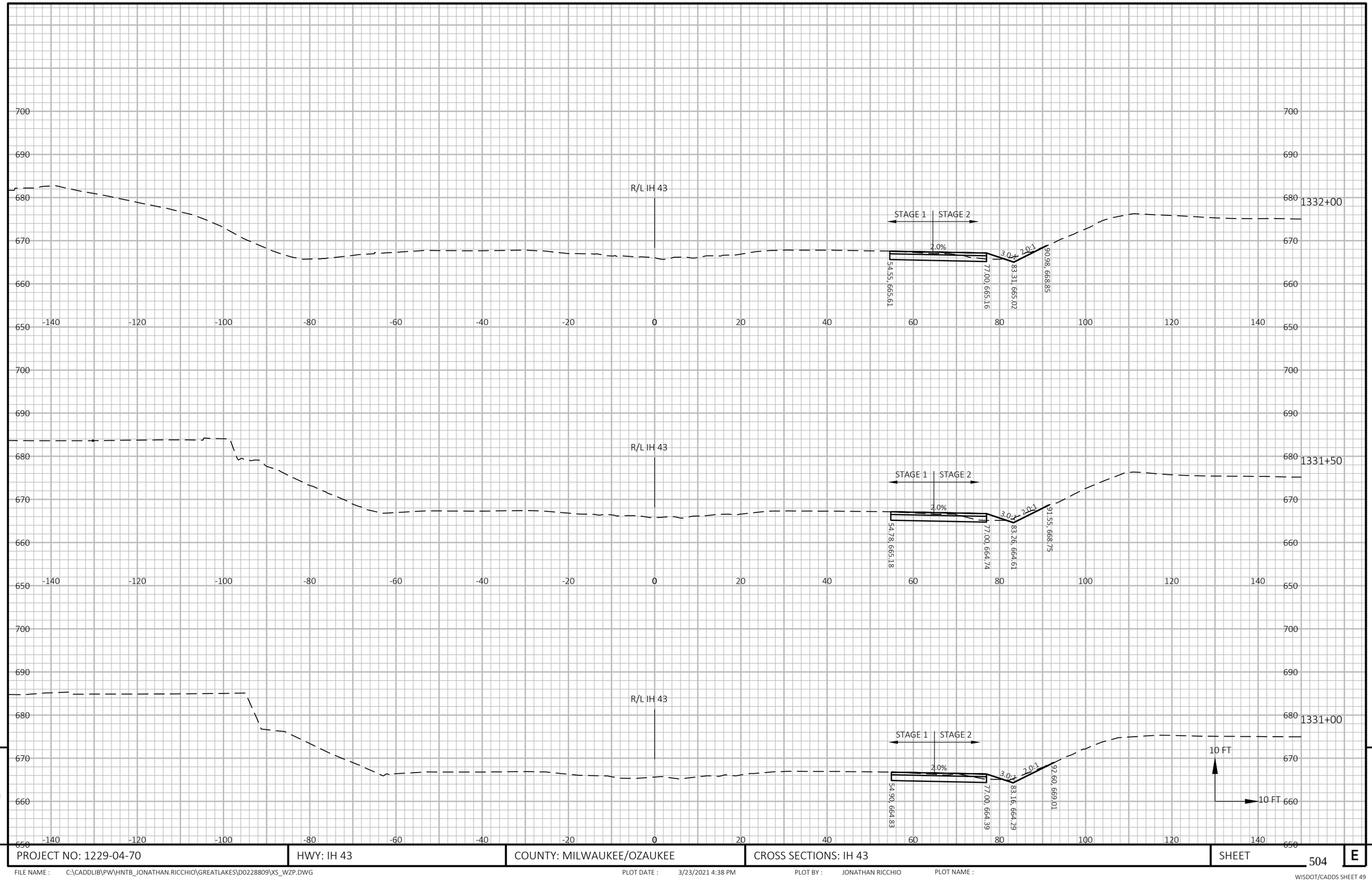
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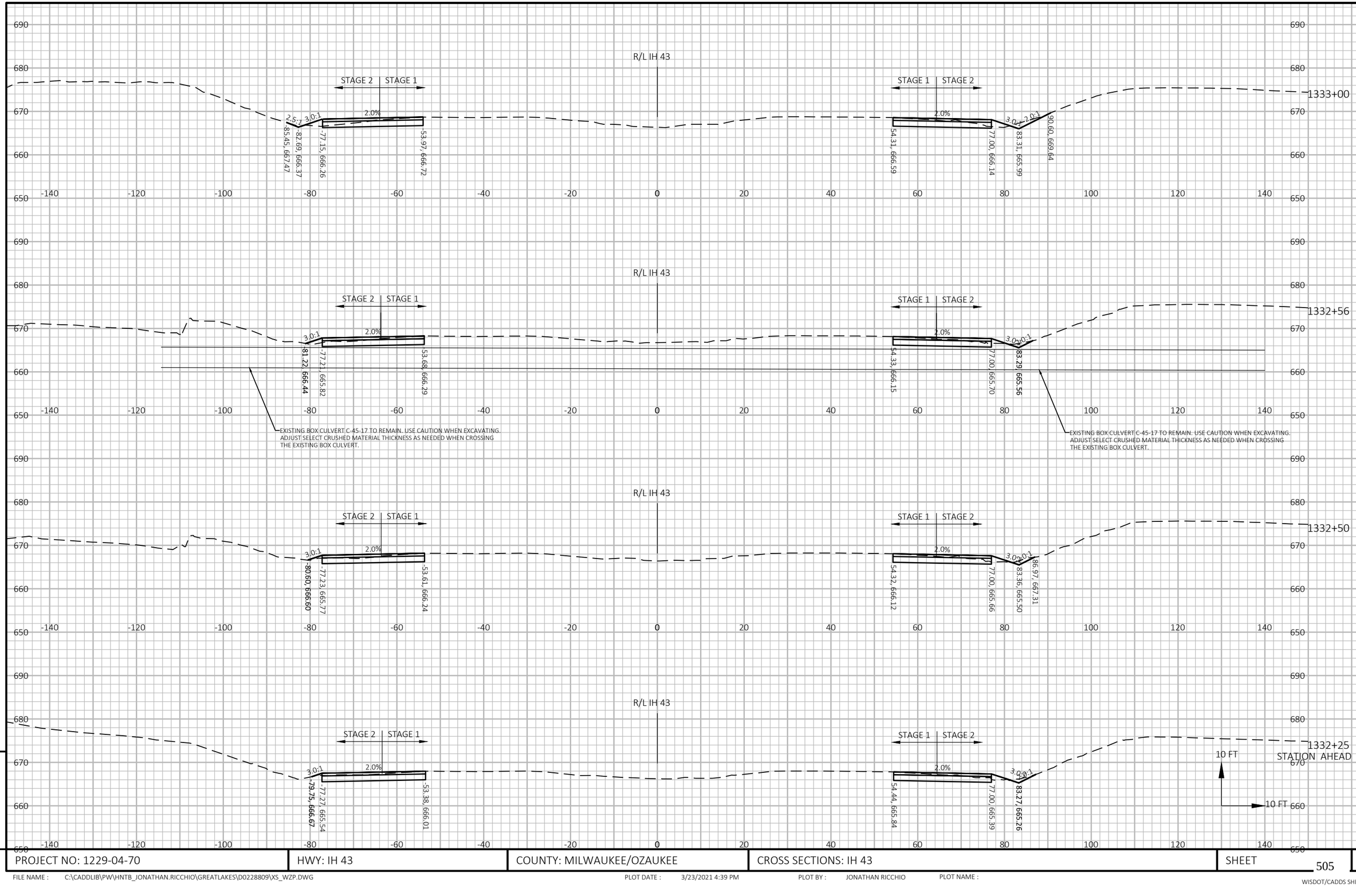
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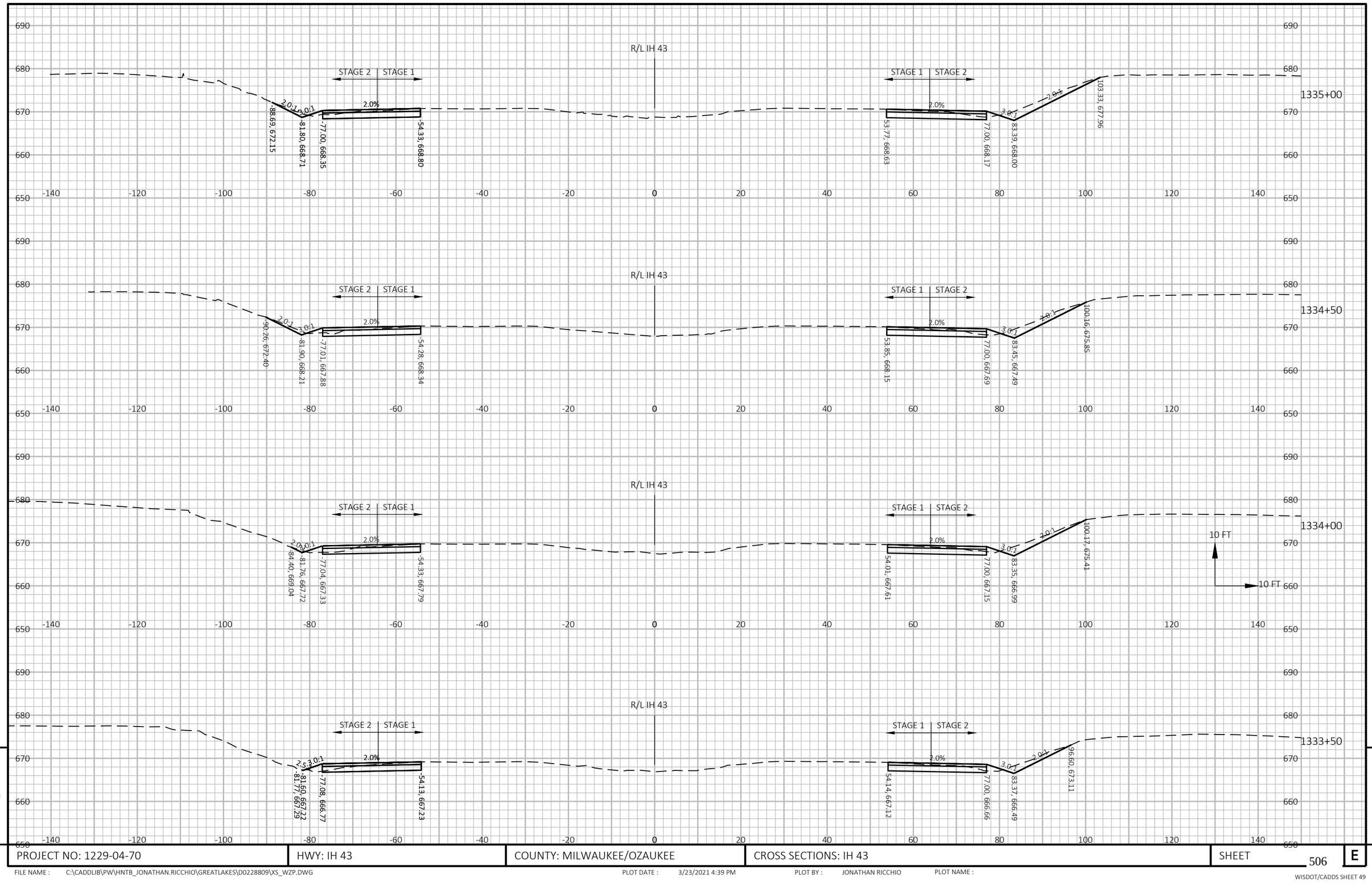
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 505	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:39 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

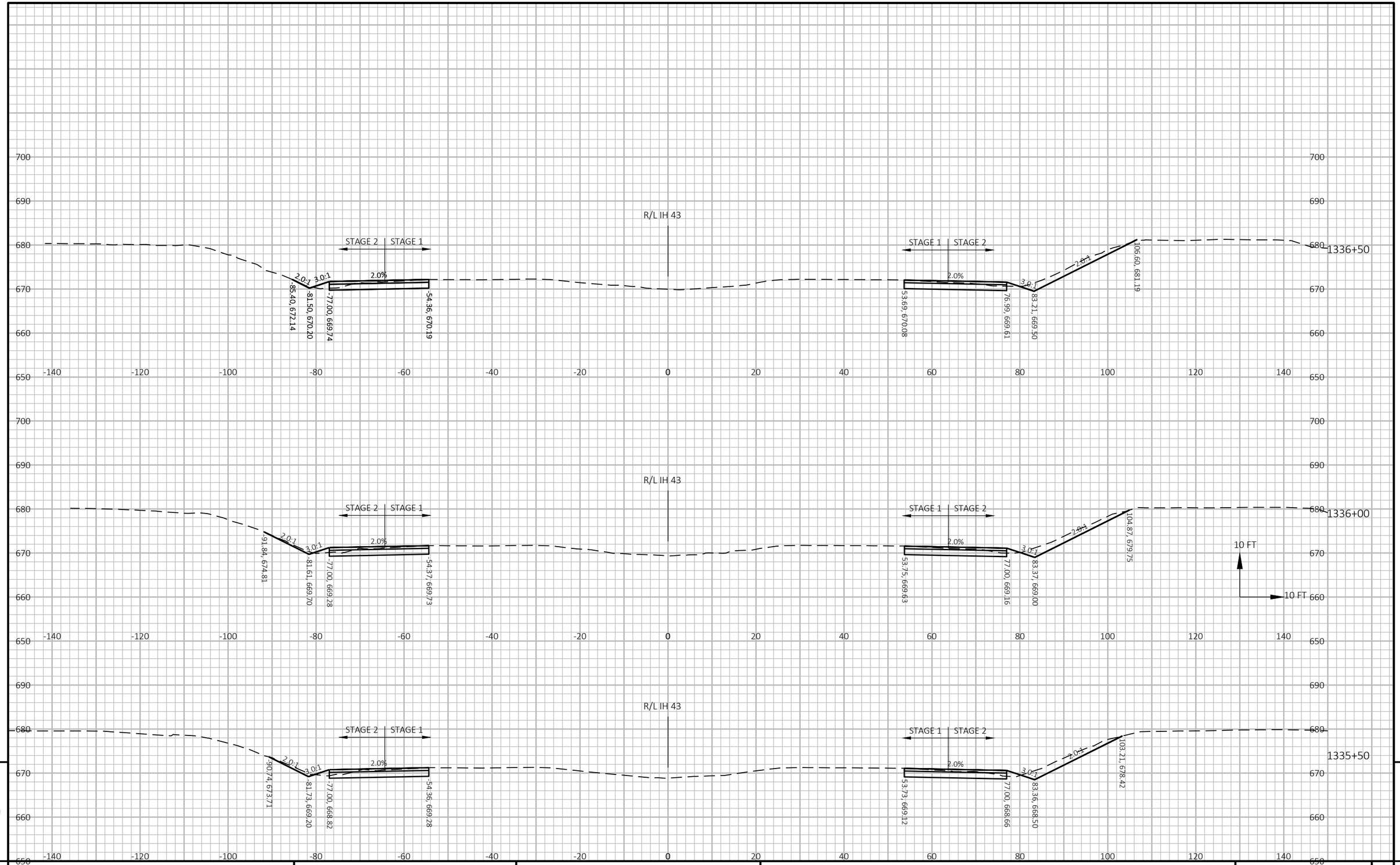
WISDOT/CADDS SHEET 49



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 506 E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:39 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

WISDOT/CADDS SHEET 49



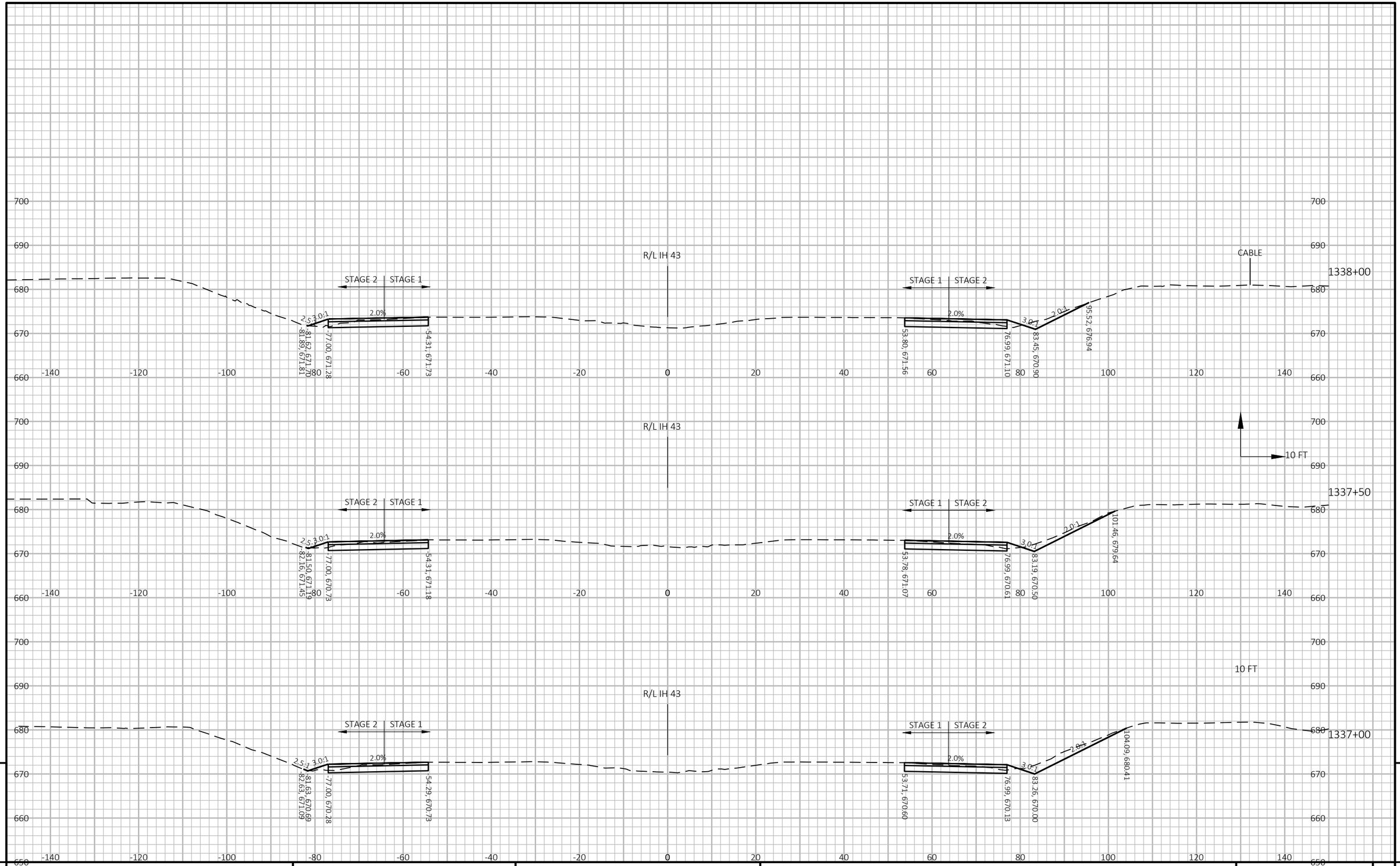
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 507	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:39 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

WISDOT/CADDS SHEET 49



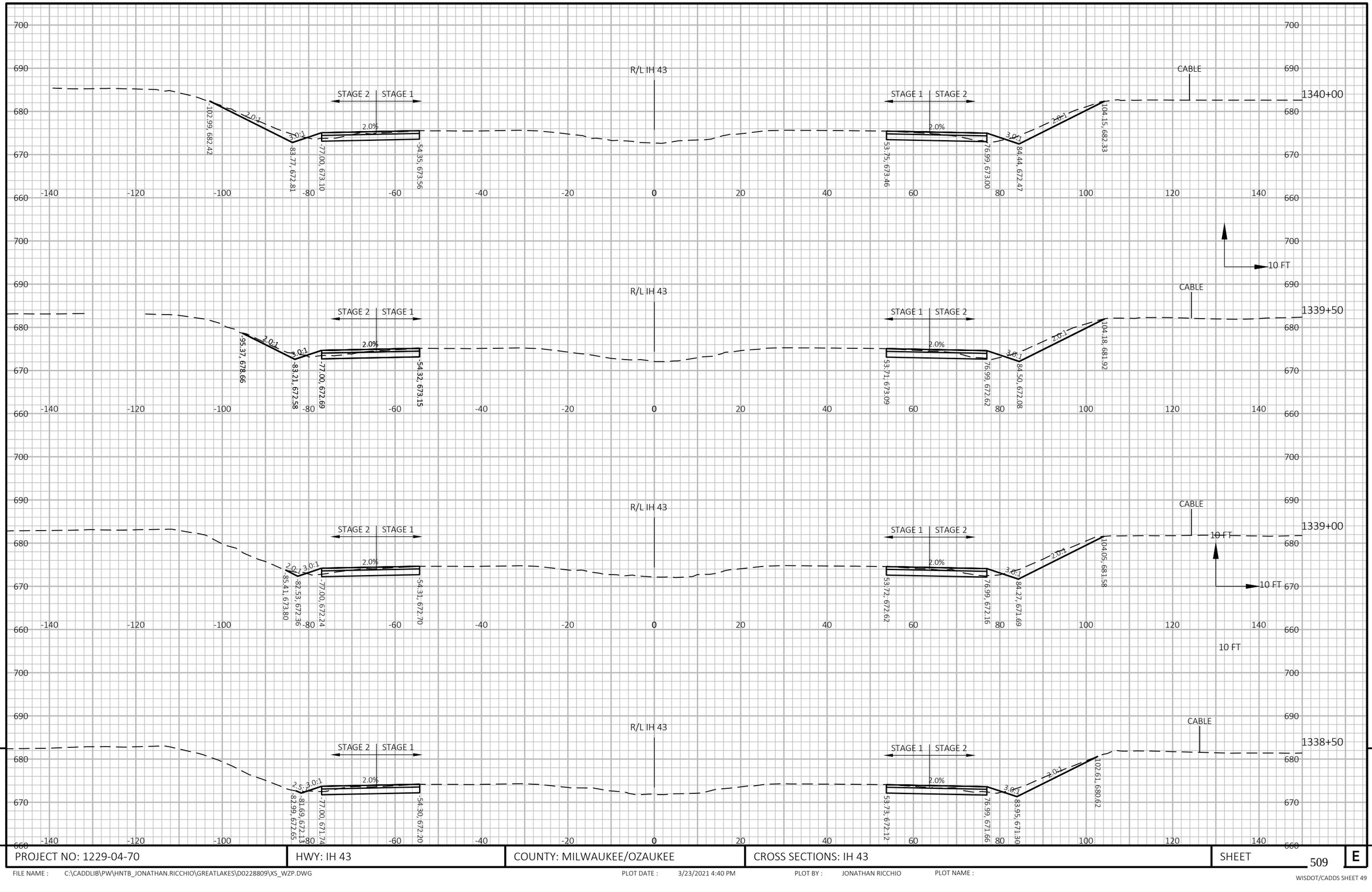
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 508	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:39 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

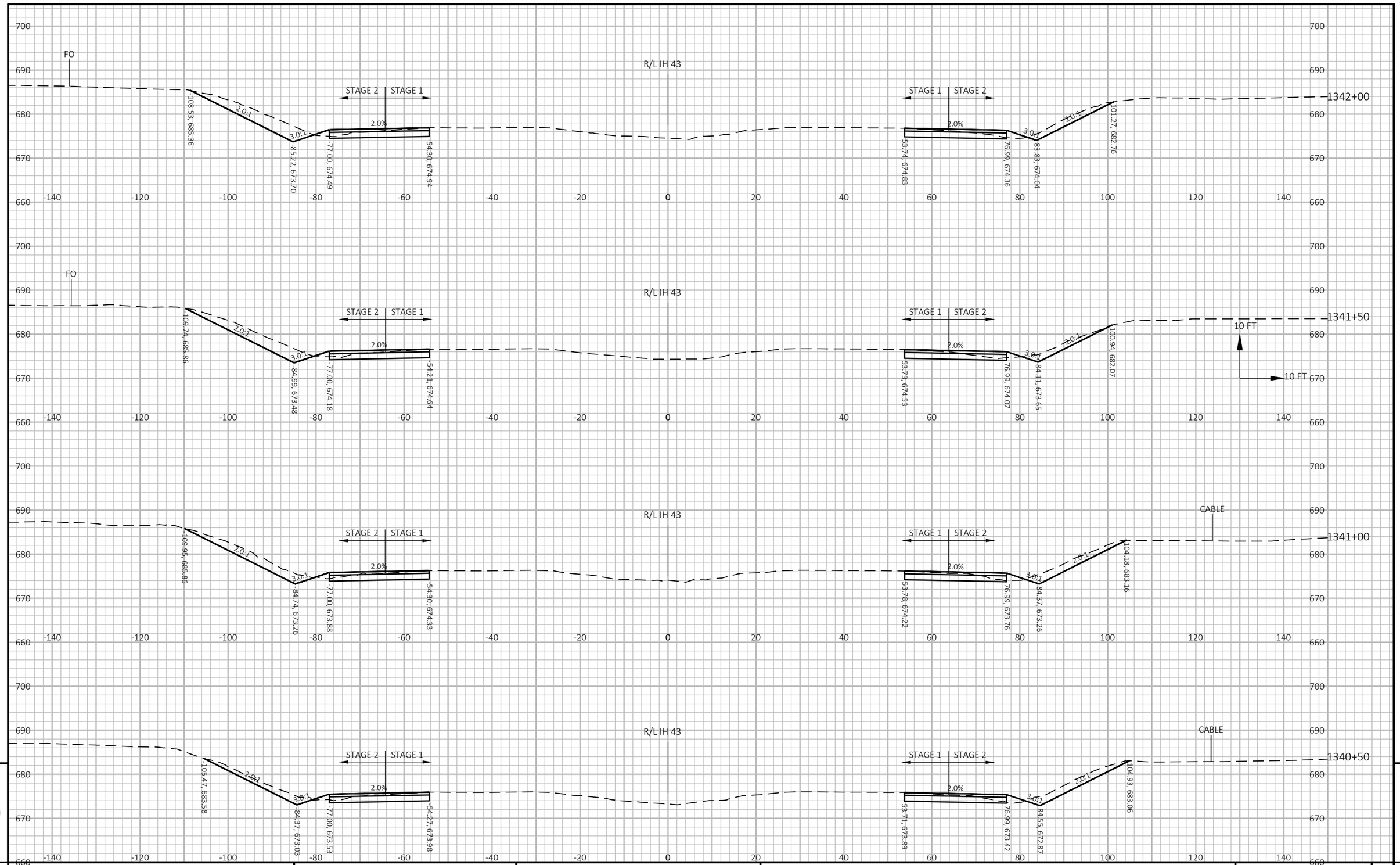
WISDOT/CADDS SHEET 49



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 509 E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:40 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

WISDOT/CADDS SHEET 49

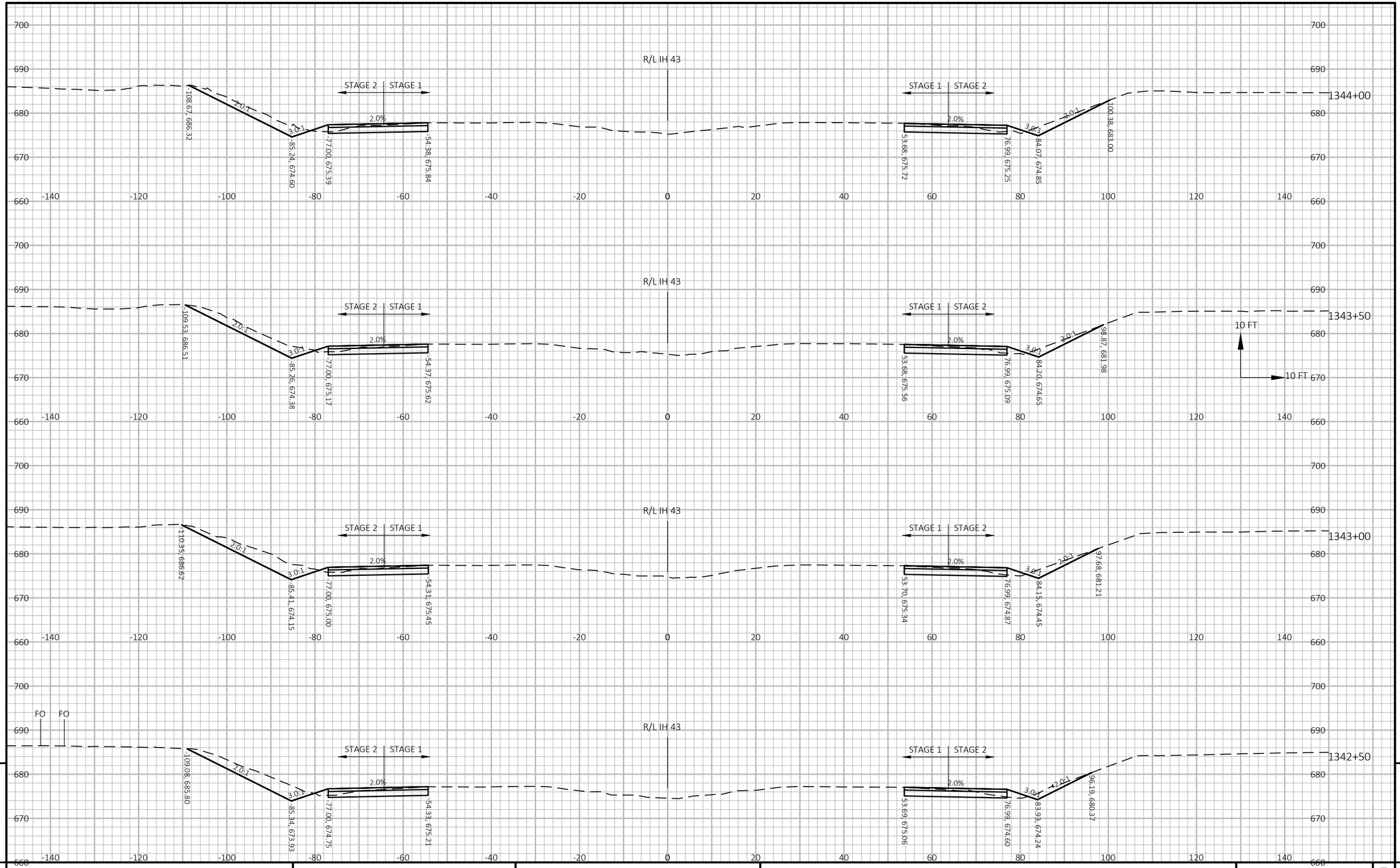


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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 510	E

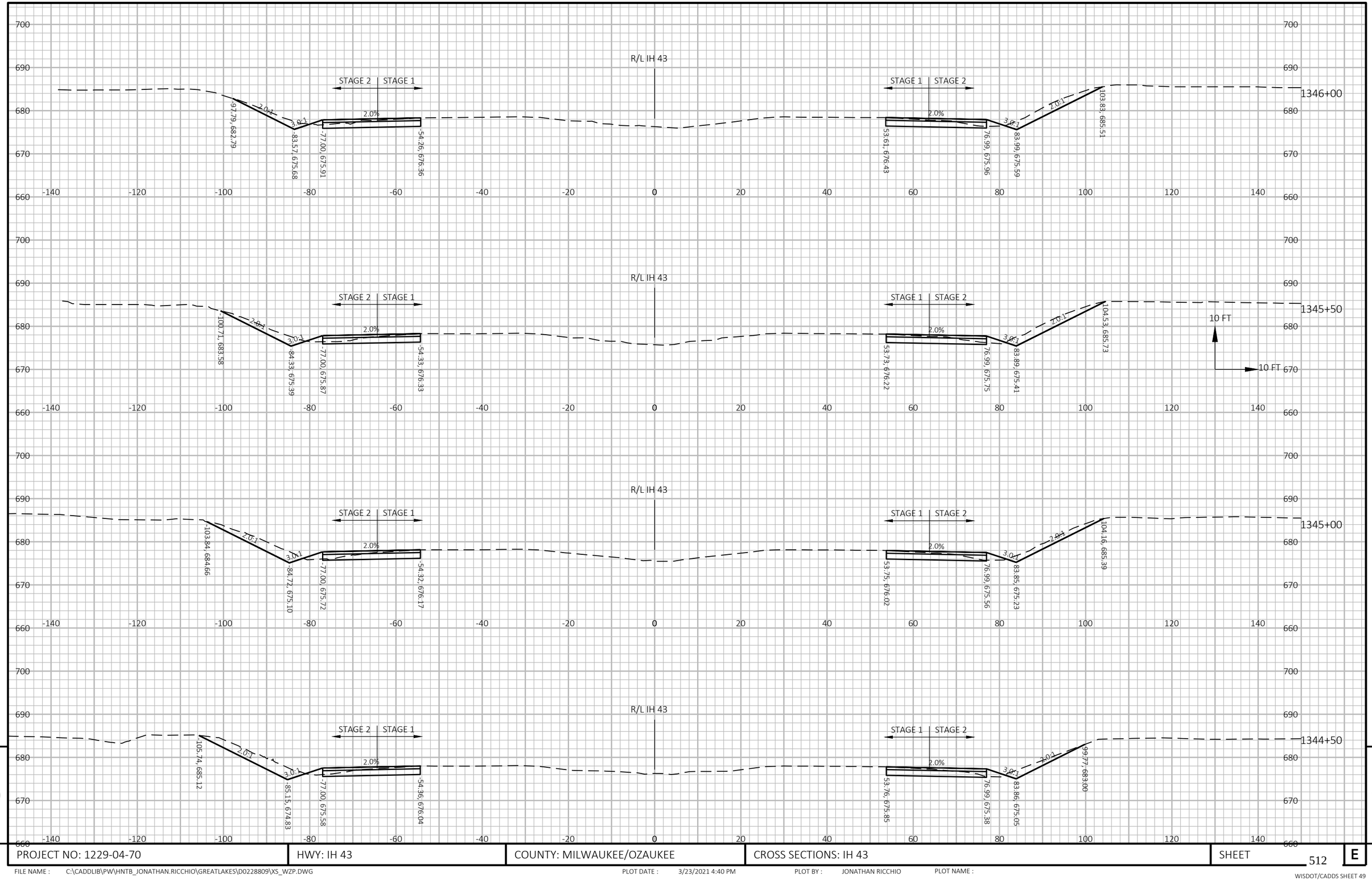
FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:40 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :



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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 511	E

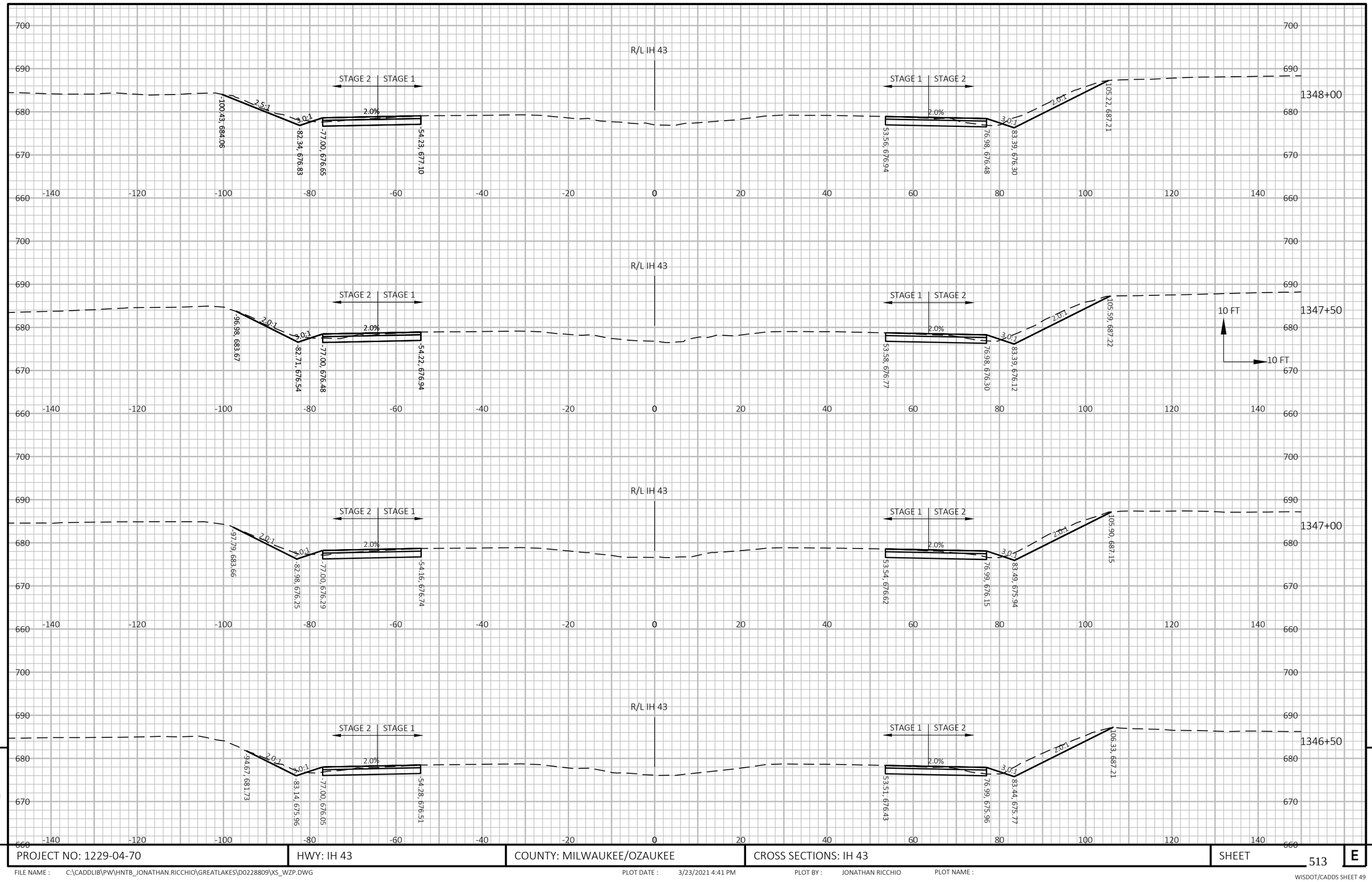


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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 512	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:40 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :



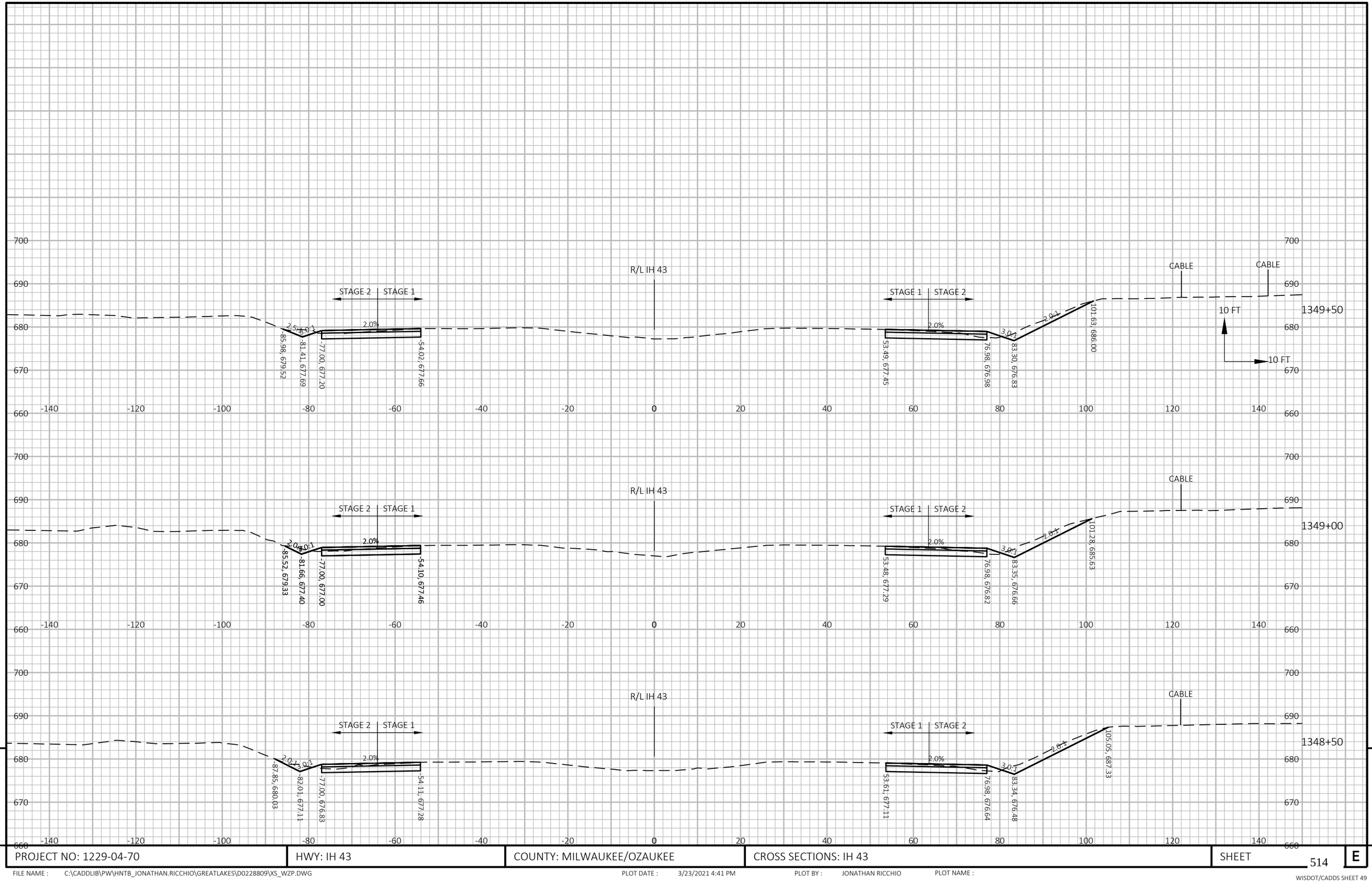
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 513	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:41 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

WISDOT/CADDS SHEET 49

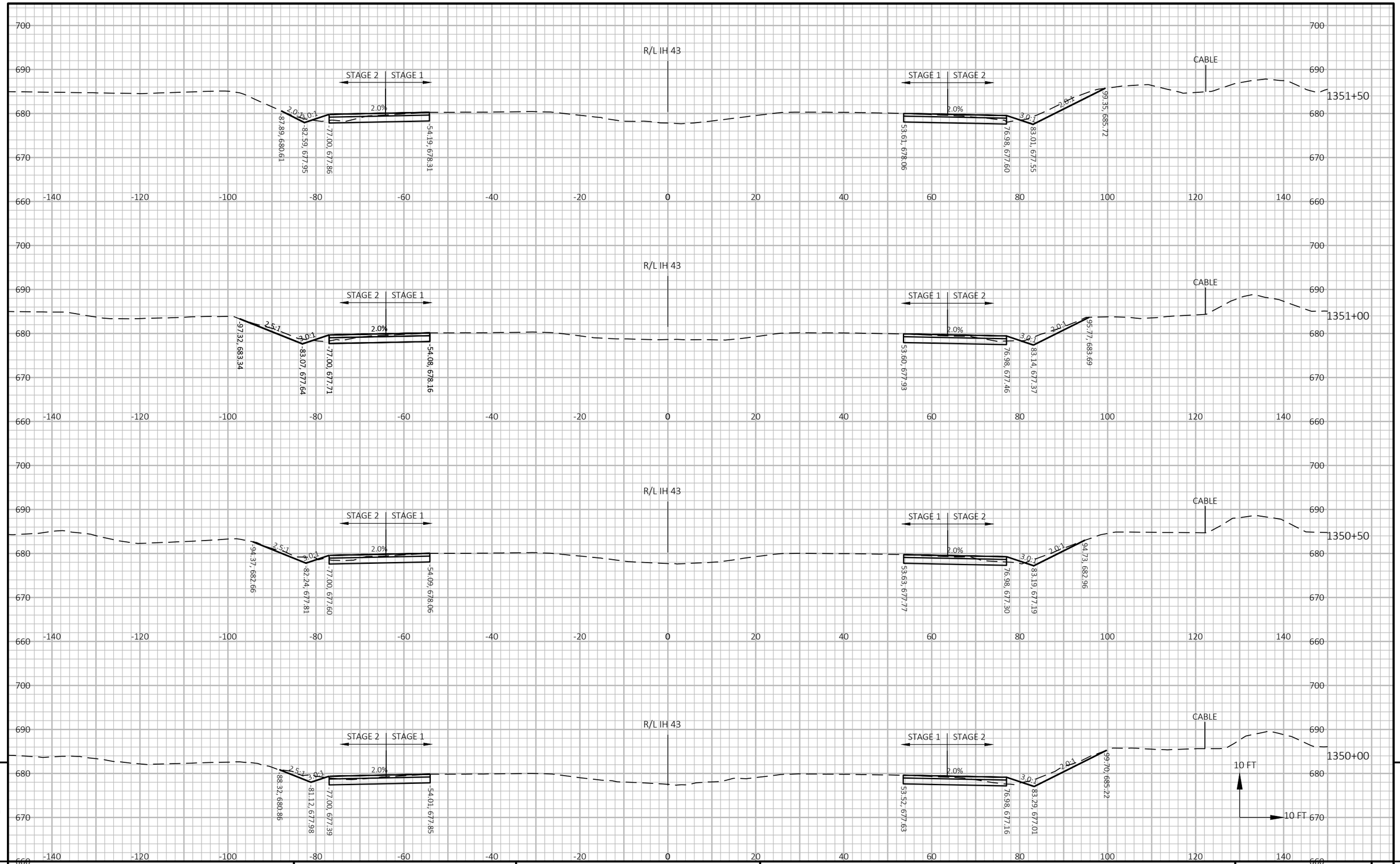


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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 514	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:41 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :



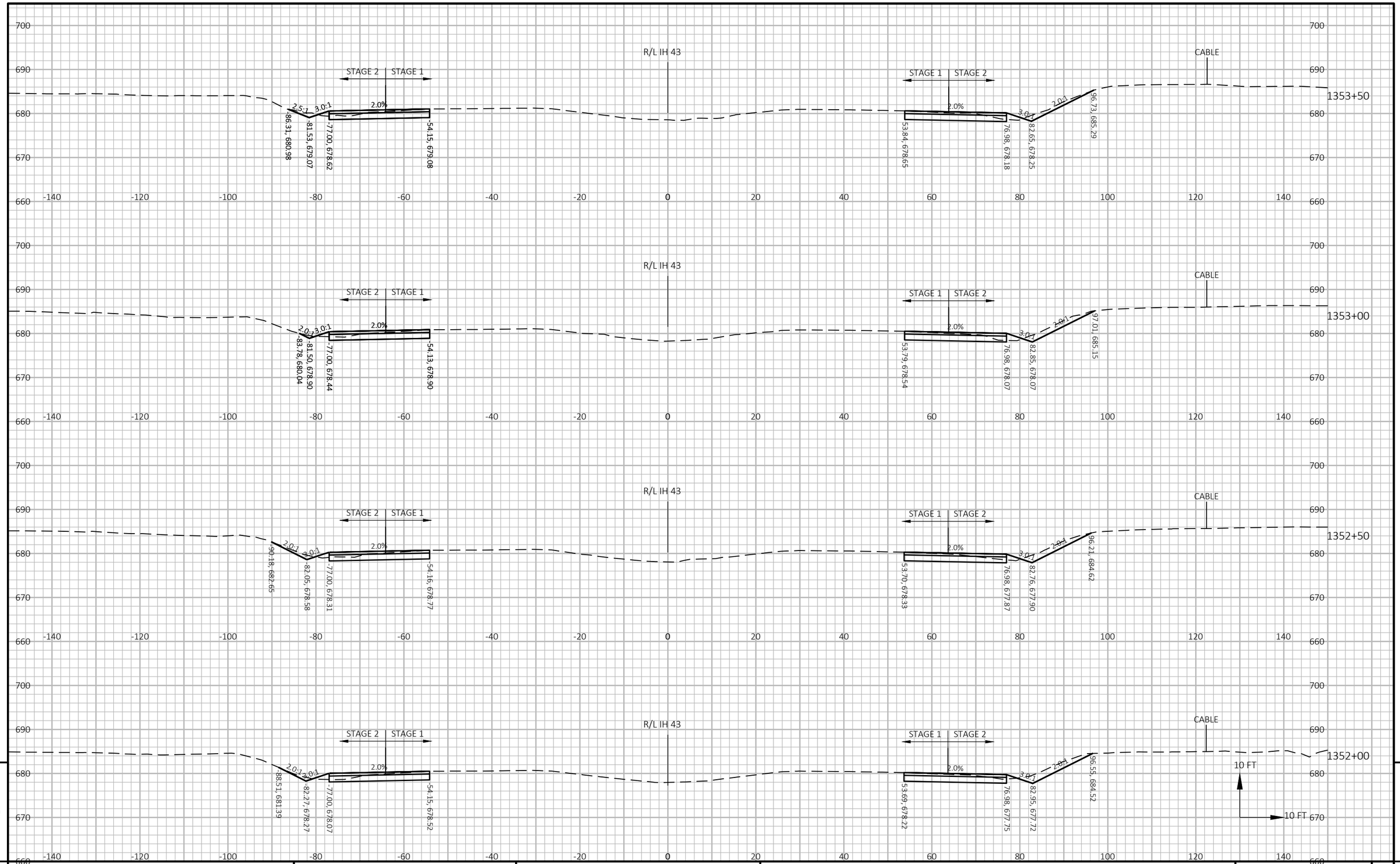
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 515	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:42 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

WISDOT/CADDS SHEET 49

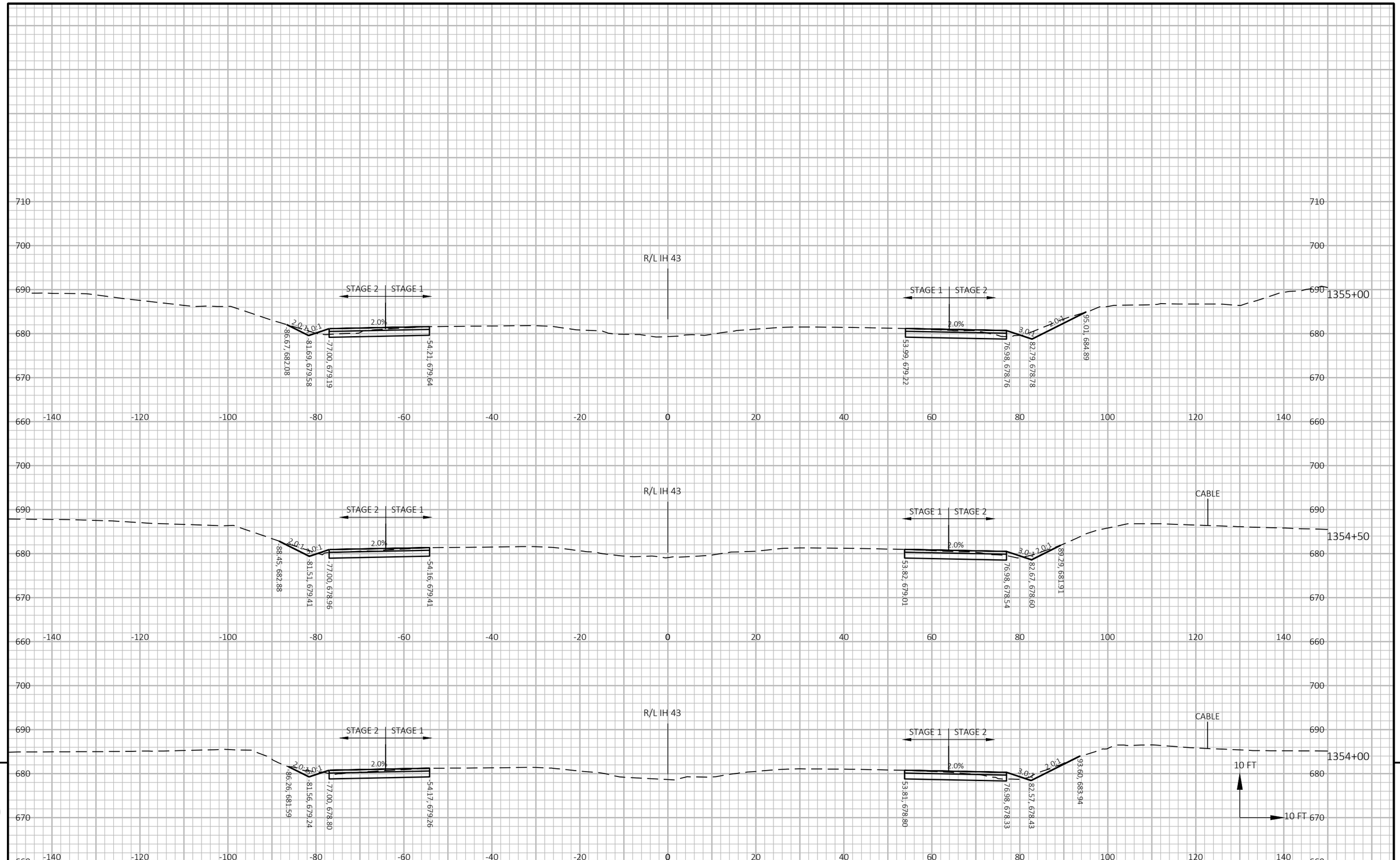


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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 516	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:42 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :



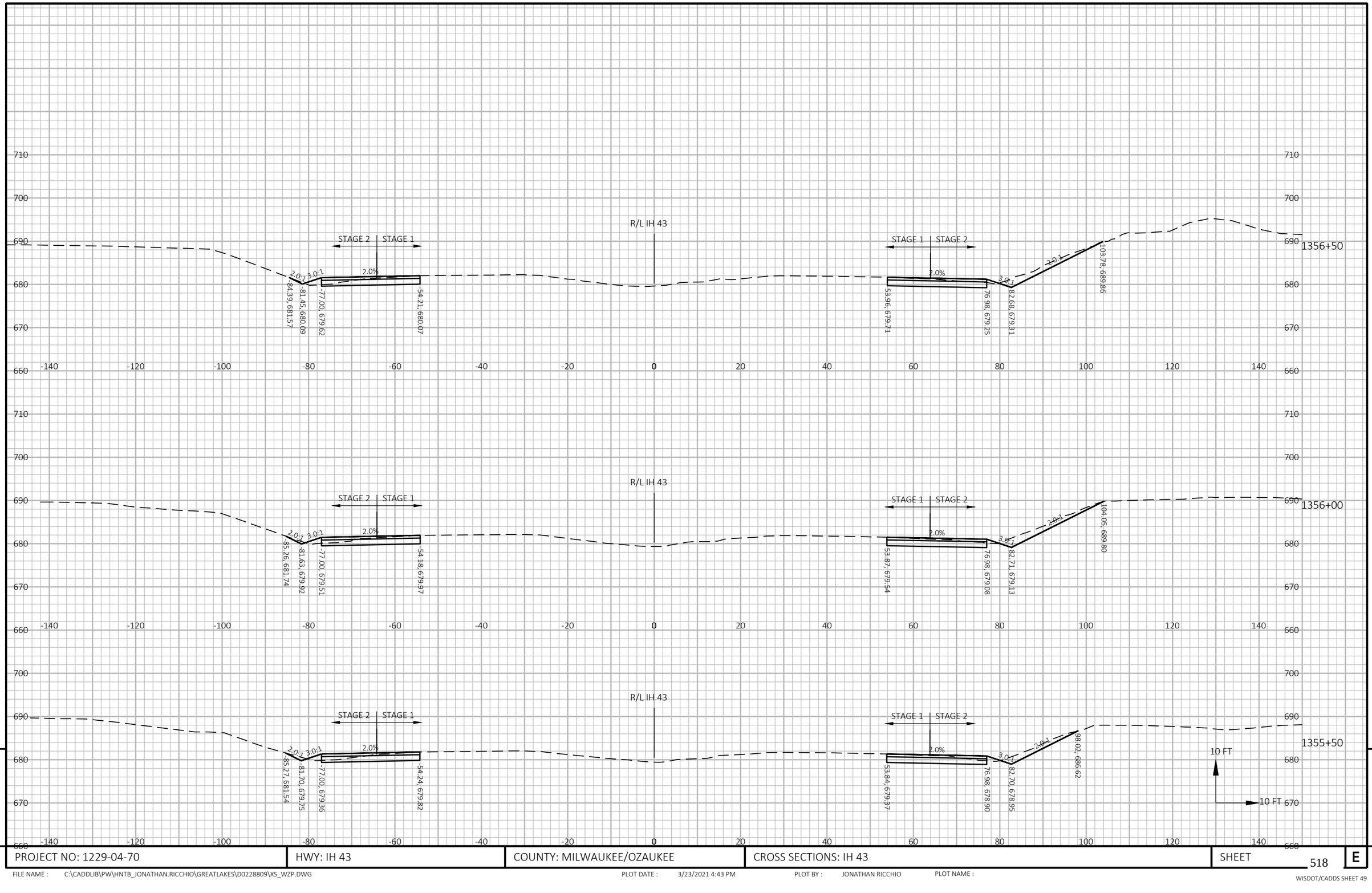
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 517	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:43 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

WISDOT/CADDS SHEET 49

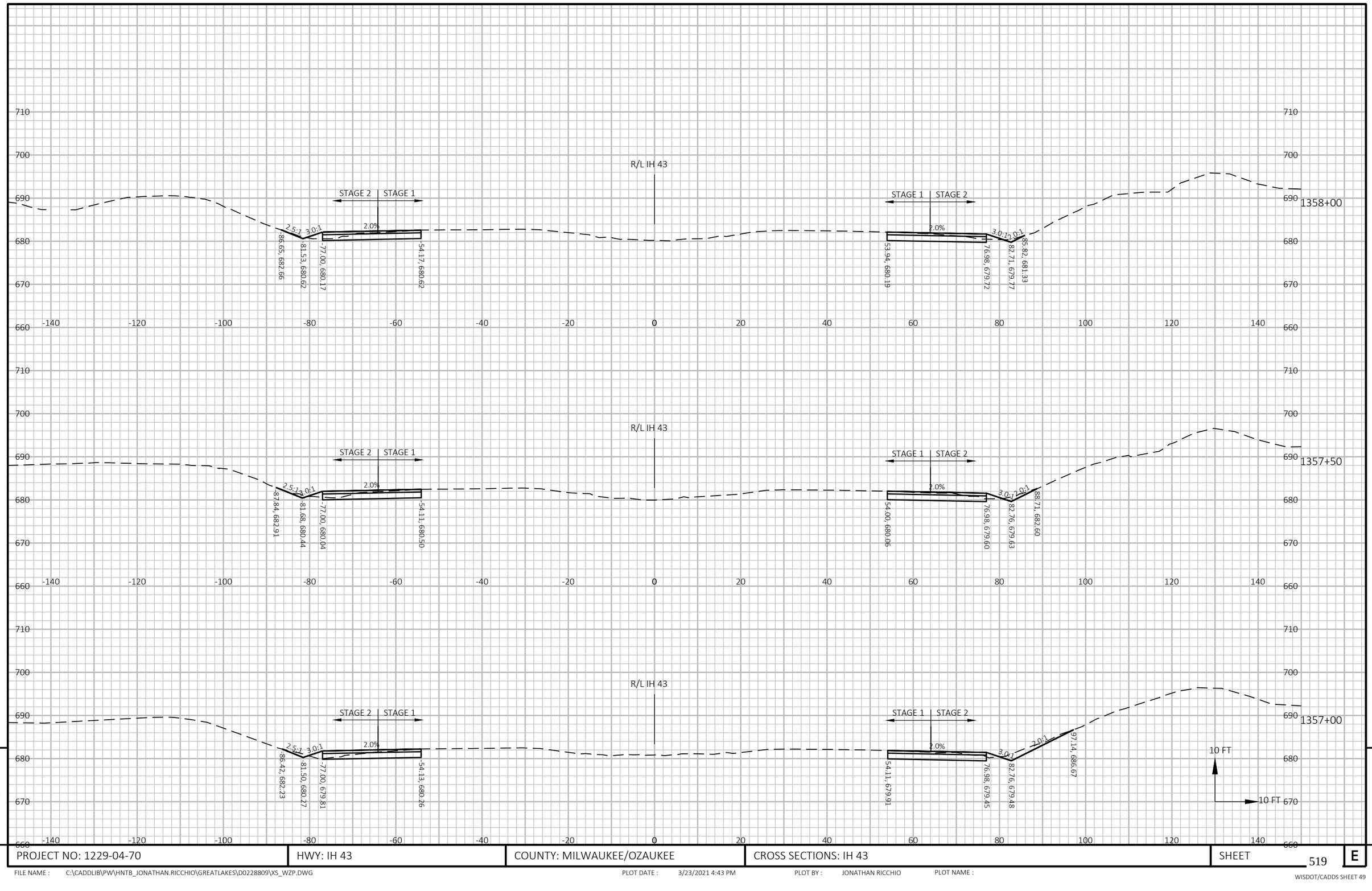


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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 518	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:43 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :



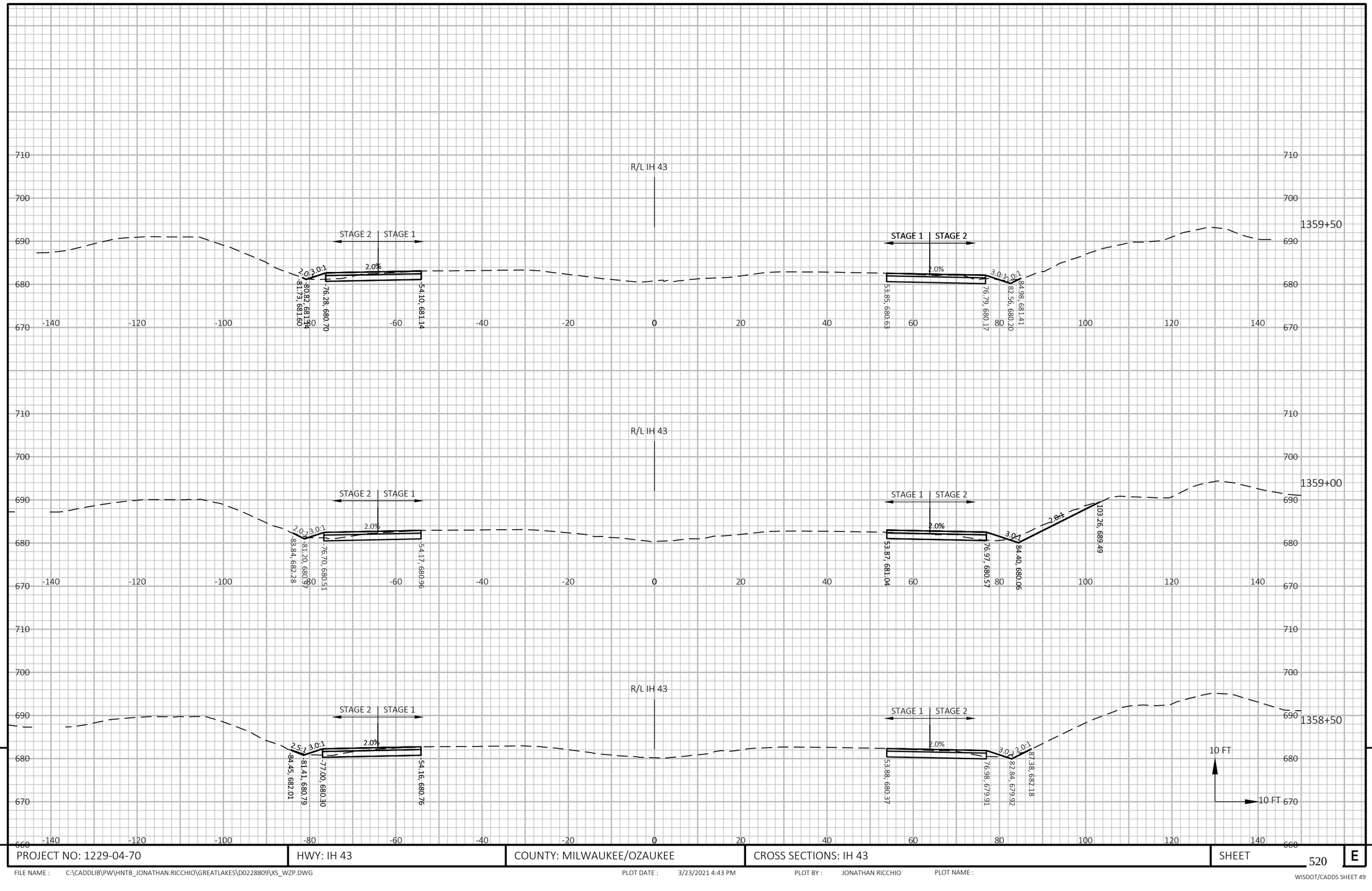
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 519	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:43 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

WISDOT/CADDS SHEET 49



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 520	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:43 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

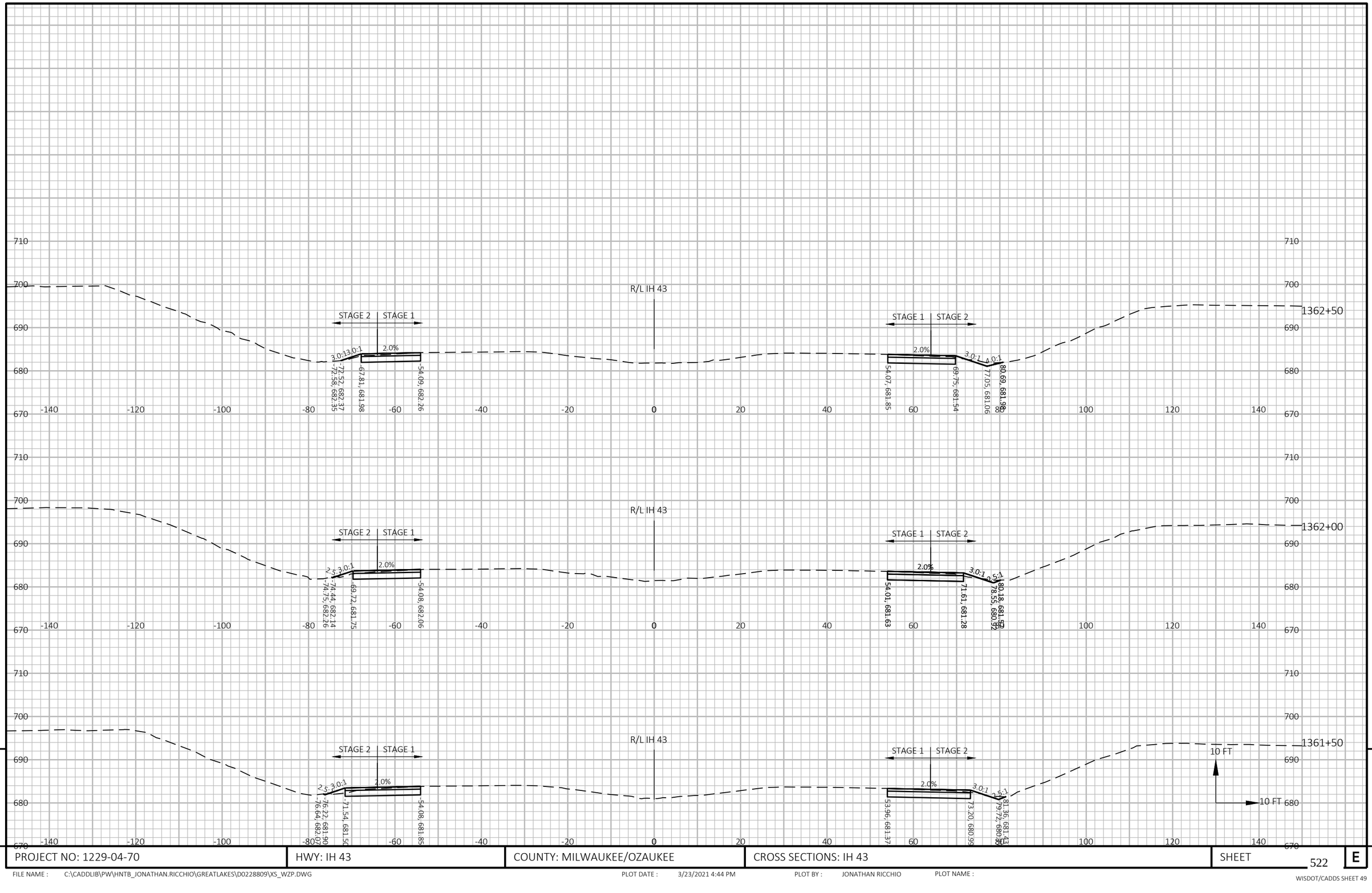
WISDOT/CADDS SHEET 49

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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 521	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:44 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :



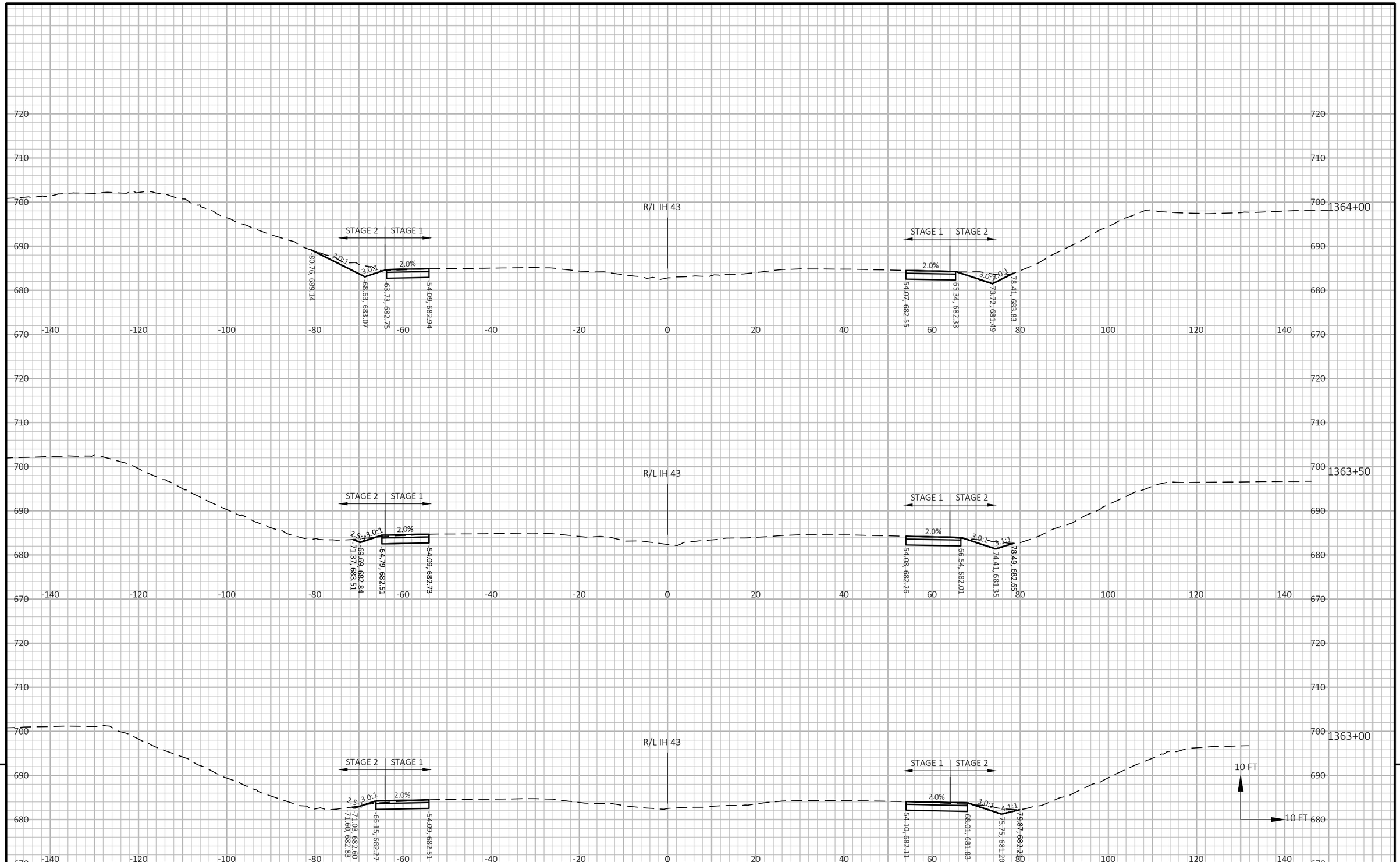
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 522	E

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FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:44 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

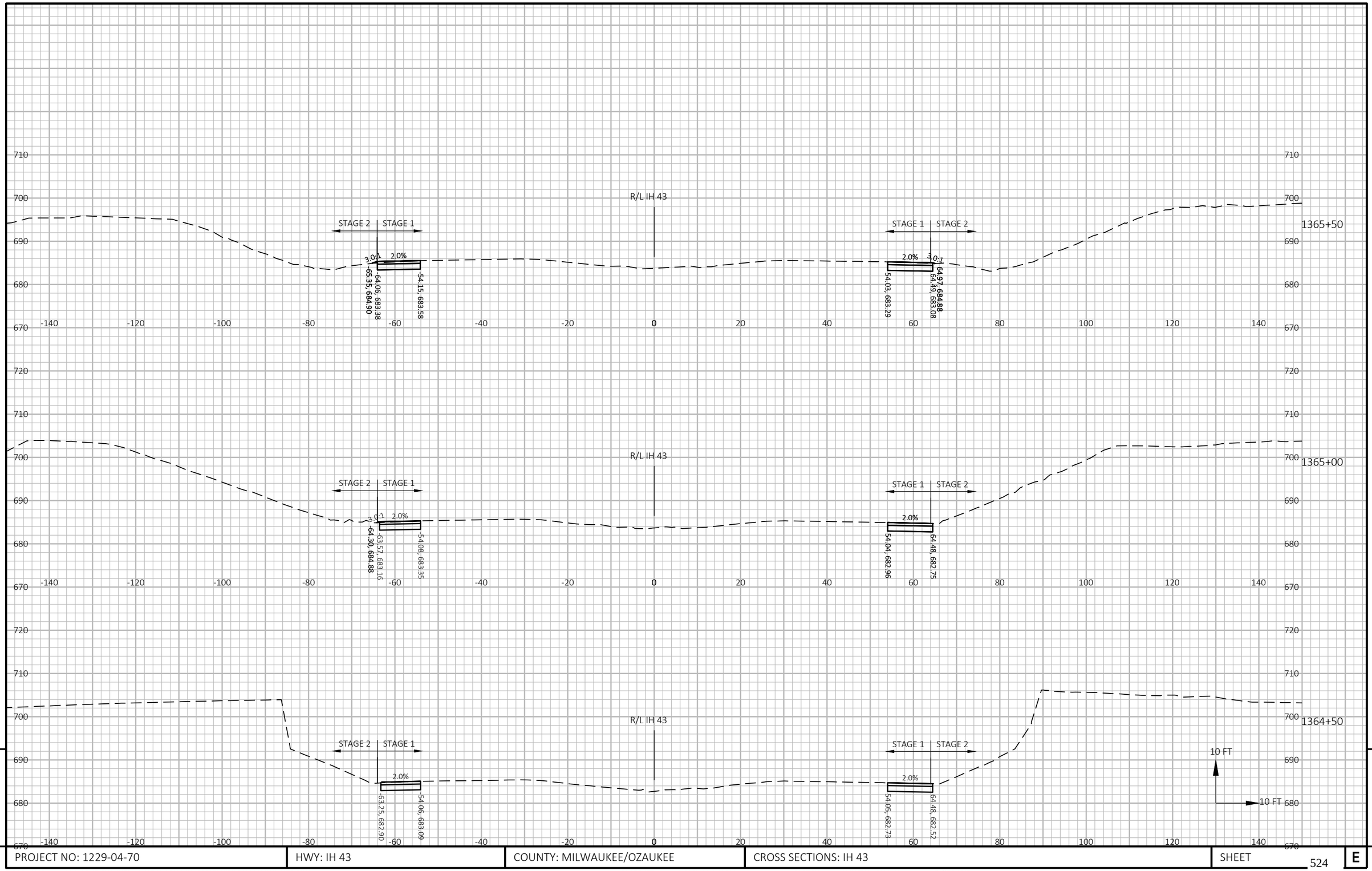
WISDOT/CADDS SHEET 49



PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 523 E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:44 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

WISDOT/CADDS SHEET 49



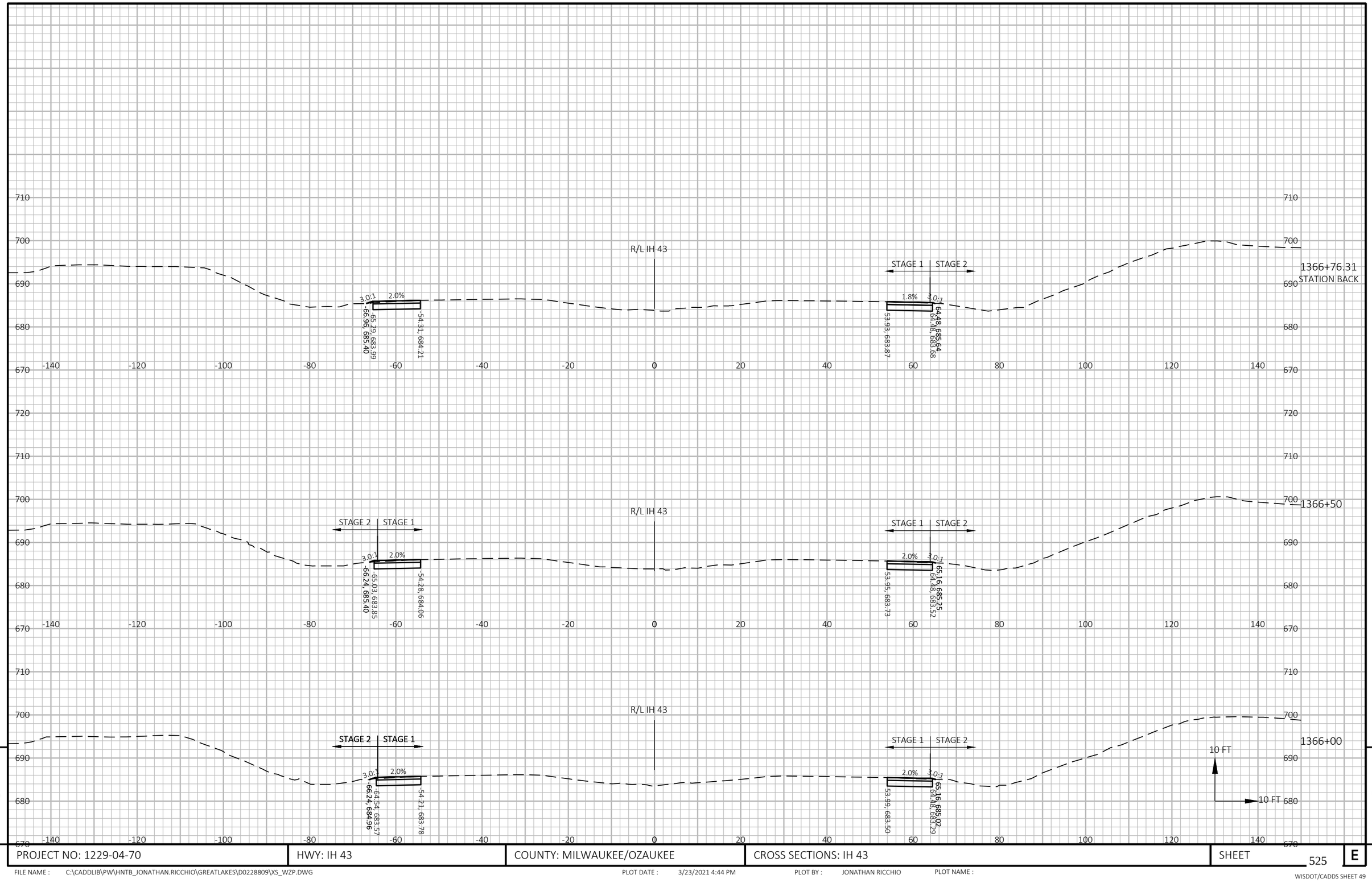
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 524	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:44 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

WISDOT/CADDS SHEET 49



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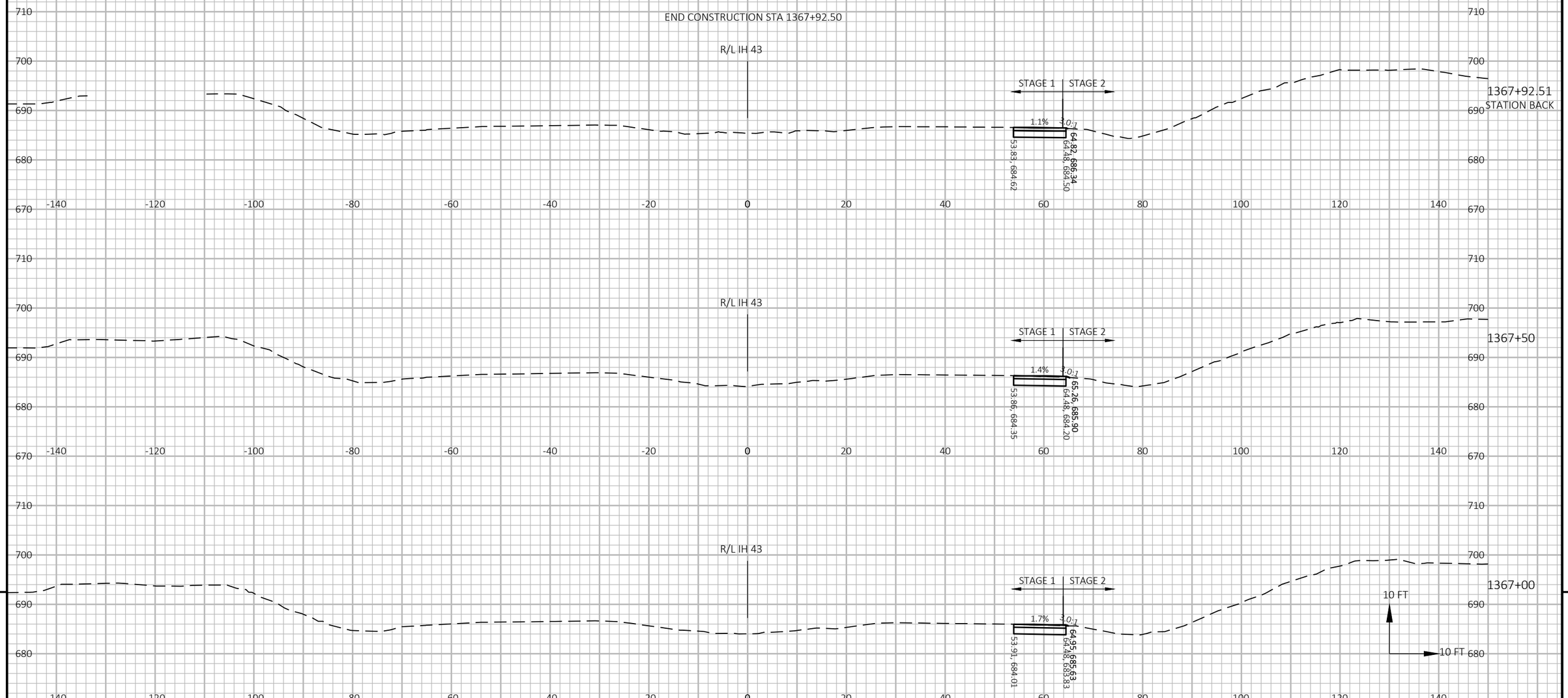
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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 525	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:44 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

WISDOT/CADDS SHEET 49

END CONSTRUCTION STA 1367+92.50



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PROJECT NO: 1229-04-70	HWY: IH 43	COUNTY: MILWAUKEE/OZAUKEE	CROSS SECTIONS: IH 43	SHEET 526	E

FILE NAME : C:\CADDLIB\PW\HNTB_JONATHAN.RICCHIO\GREATLAKES\D0228809\XS_WZP.DWG PLOT DATE : 3/23/2021 4:45 PM PLOT BY : JONATHAN RICCHIO PLOT NAME :

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov