WKE

APR 2017

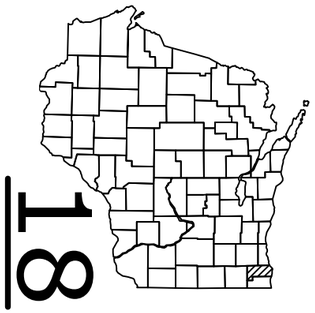
PROJECT ID: 2430-06-70

COUNTY: RACINE

ORDER OF SHEETS

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

TOTAL SHEETS = 638



N

DESIGN DESIGNATION		7TH AVE TO CTH C	CTH C TO STH 20
A.A.D.T.	2017 =	6,700	3,800-4,600
A.A.D.T.	2037 =	7,400	4,300-5,200
D.H.V.	=	747	434-525
D.D.	=	59/41	59/41
T.	=	11.7%	11.7%
DESIGN SPEED	=	50	60
ESALS	=	1,345,800	

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2430-06-70	WISC 2017164	1

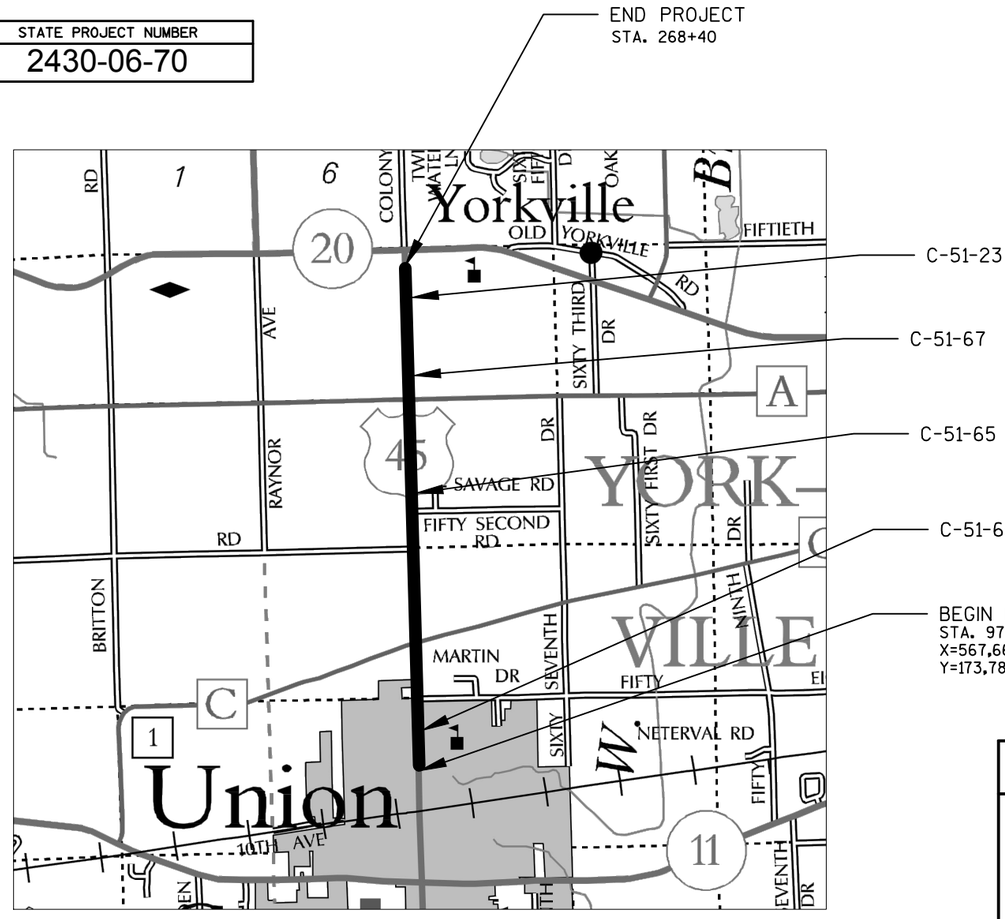
COLONY AVENUE

7TH AVENUE TO STH 20

USH 45

RACINE COUNTY

STATE PROJECT NUMBER
2430-06-70



LAYOUT SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 3.232

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, RACINE COUNTY, NAD83 (97), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. ELEVATION THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD88 (91).

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	JONATHAN ENGERSON
Project Manager	ALLEN GILBERTSON
Regional Examiner	
Regional Supervisor	JANET CANNON
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 12/01/16 (Signature)

E

UTILITY CONTACTS

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WE ENERGIES - GAS/PETROLEUM
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333 W. EVERETT ST - A299
MILWAUKEE, WI 53203
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LATROY.BRUMFIELD@WE-ENERGIES.COM

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WE ENERGIES - ELECTRIC
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333 W. EVERETT ST - A299
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FIELD CONTACT:
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PHONE: (262) 886-7033
PHONE: (262) 822-2986
EUGENE.MCNEW@WE-ENERGIES.COM

ATC MANAGEMENT, INC. - ELECTRICITY
MIKE OLSON
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DE PERE, WI 54115-6113
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FIELD CONTACT:
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VILLAGE OF UNION GROVE -
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MARK OSMUNDSON
925 15TH AVENUE
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PHONE: (262) 878-1818
MOSMUNDSON@UNIONGROVE.NET

OTHER CONTACTS

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WISDOT ELECTRICAL FIELD UNIT
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WEST ALLIS, WI 53214
PHONE: (414) 266-1170

RACINE COUNTY DPW
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14200 WASHINGTON AVENUE
RACINE, WI 53177
PHONE: (262) 866-8440
FAX: (262) 866-8480

VILLAGE OF UNION GROVE - CLERK/TREASURER
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925 15TH AVENUE
UNION GROVE, WI 53182
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FAX: (262) 878-3782

WI DNR LIAISON
KRISTINA BETZOLD
DNR SOUTHEAST REGION HQ
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EMAIL: KRISTINA.BETZOLD@WISCONSIN.GOV

TOWN OF YORKVILLE - CLERK/TREASURER
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720 MAIN STREET
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UNION GROVE, WI 53182
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FAX: (262) 878-1680

SOUTHEASTERN WISCONSIN
REGIONAL PLANNING COMMISSION
ATTN: JOHN WASHBURN
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P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE: (262) 953-4295
CELL: (414) 218-2866
JWASHBURN@SEWRPC.ORG

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

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	GENERAL NOTES AND UTILITY CONTACTS	SHEET: 2	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES

PROJECT OVERVIEW

TYPICAL SECTIONS

CONSTRUCTION DETAILS

REMOVAL PLAN

PLAN DETAILS

PAVEMENT GRADES

EROSION CONTROL

STORM SEWER

PERMANENT SIGNING

LIGHTING

PAVEMENT MARKING

TRAFFIC CONTROL

DETOUR

ALIGNMENT

CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING

LOCATION	LOWER LAYER HMA	LOWER LAYER DEPTH	UPPER LAYER HMA	UPPER LAYER DEPTH
USH 45 & SIDEROADS 6" HMA PAVEMENT	3 MT 58-28 S	3 ½-INCH	4 MT 58-28 S	2 ½-INCH

GENERAL NOTES

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

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

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE.

SIDEWALK GRADES ARE GIVEN TO FRONT OF SIDEWALK.

A SAWED JOINT WILL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

TRAFFIC CONTROL LOCATIONS AS SHOWN IN THE PLAN ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE ENGINEER WILL REVIEW ALL SIGN LOCATIONS PRIOR TO INSTALLATION.

DO NOT REMOVE TREES OR SHRUBS UNLESS DESIGNATED FOR REMOVAL BY THE ENGINEER.

DO NOT USE FERTILIZER WITHIN 20' OF WATERWAYS OR WETLAND AREAS.

USE SEED MIXTURE NO. 10 FOR WETLAND AREAS AND WITHIN 20' OF WETLAND AREAS.

FOR GRADING AREAS ADJACENT TO OR CONTAINING WETLANDS, FLOODPLAINS, OR WATERWAYS, COMPLETE ROUGH GRADING THROUGH FINISHED LANDSCAPING WITHIN FOURTEEN (14) CALENDAR DAYS.

FOR ALL OTHER GRADING AREAS, IF THE DURATION FROM BEGINNING ROUGH GRADING TO COMPLETING FINAL LANDSCAPING WILL BE LONGER THAN 14 DAYS, WITHIN 3 DAYS OF BEGINNING ROUGH GRADED, SEED THE AREA WITH TEMPORARY SEED AND MULCH.

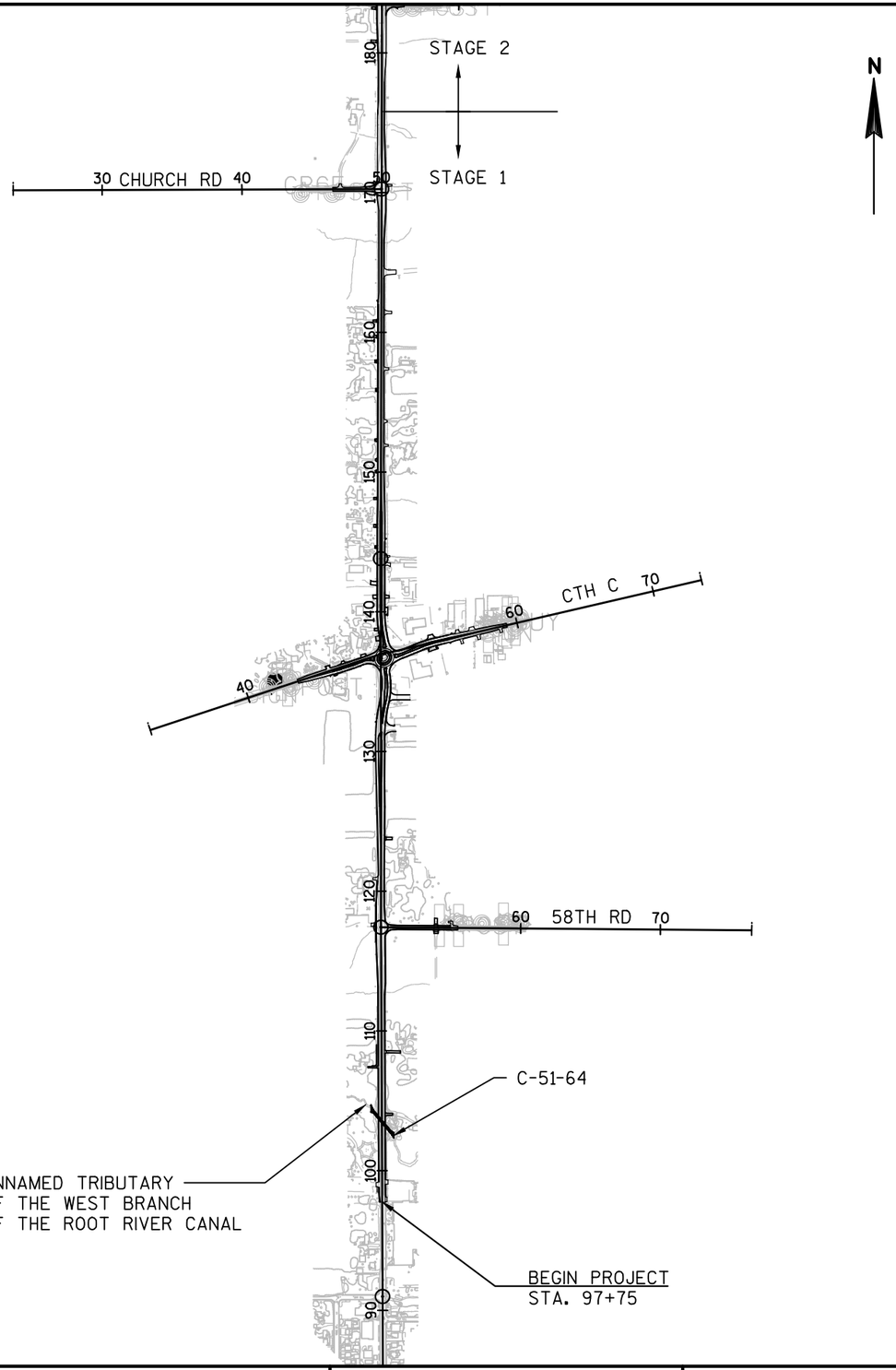
STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLAND, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS TO BE LEFT FOR MORE THAN FOURTEEN (14) CALENDARD DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH WITHIN 3 DAYS OF CREATION.

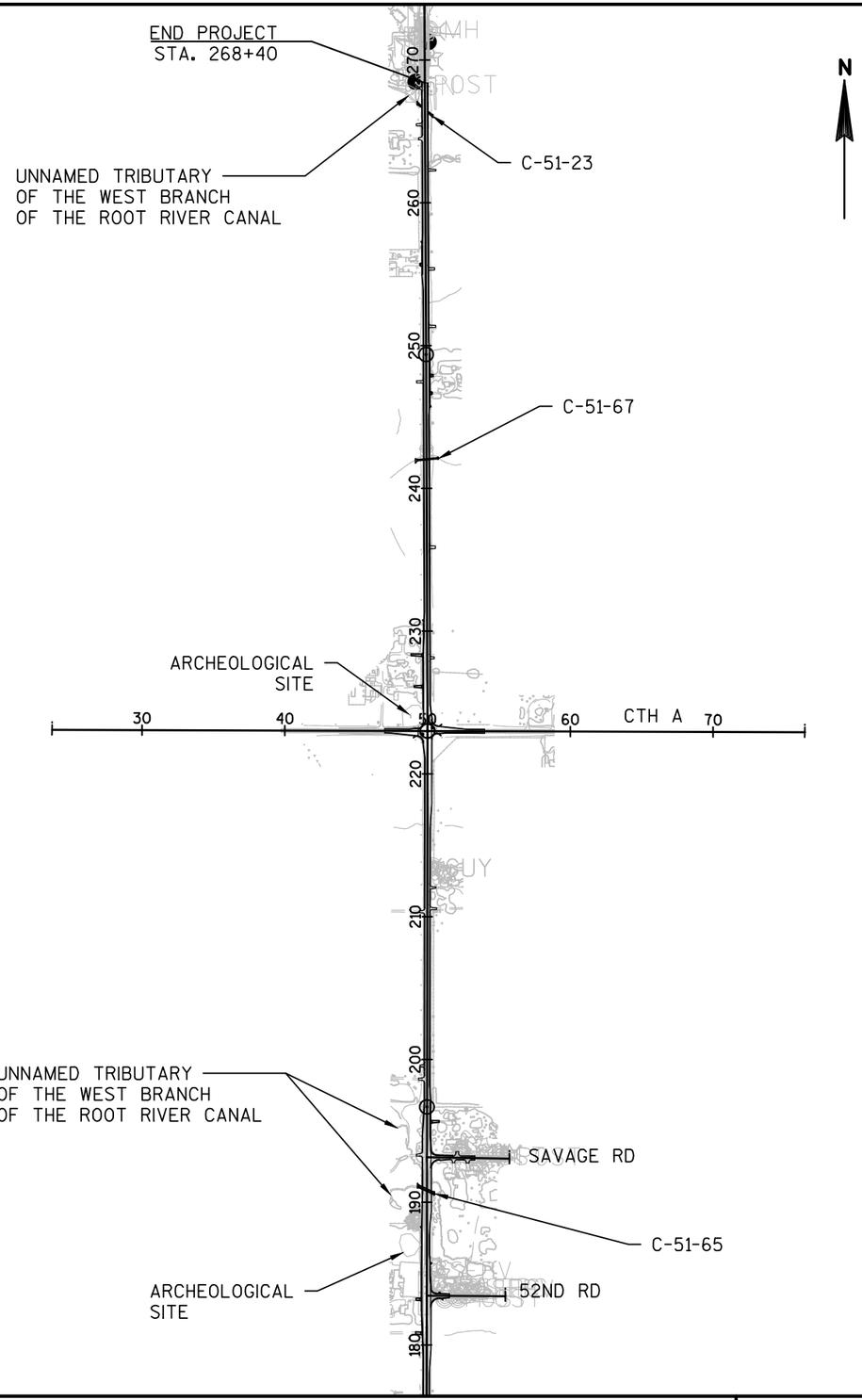
EROSION CONTROL BMP'S ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE MAINTANINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.

EXISTING DRAIN TILE MAY CROSS UNDER USH 45. IF DURING CONSTRUCTION OPERATIONS DRAIN TILE IS ENCOUNTERED AND OR DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE WITH CONCRETE PIPE AND MANHOLES AS THE ENGINEER DIRECTS. CONCRETE PIPE AND MANHOLES WILL BE PAID AT CONTRACT PRICES.

CONTACT THE PROJECT ENGINEER AND SEWRPC (JOHN WASHBURN); AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

2





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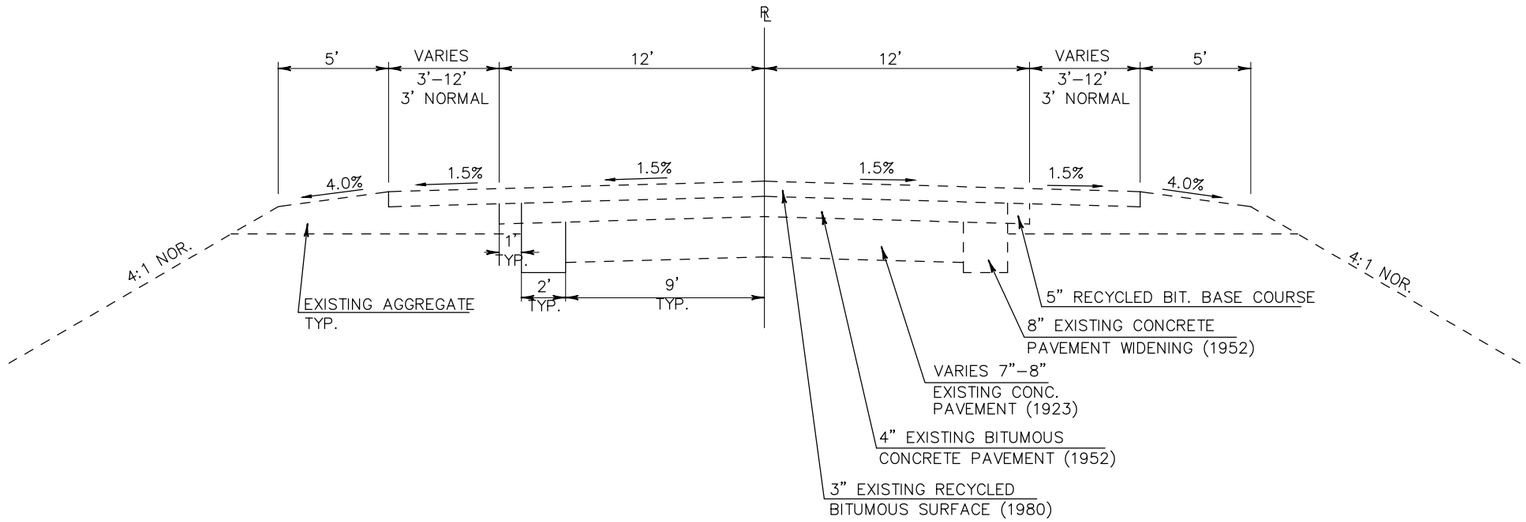
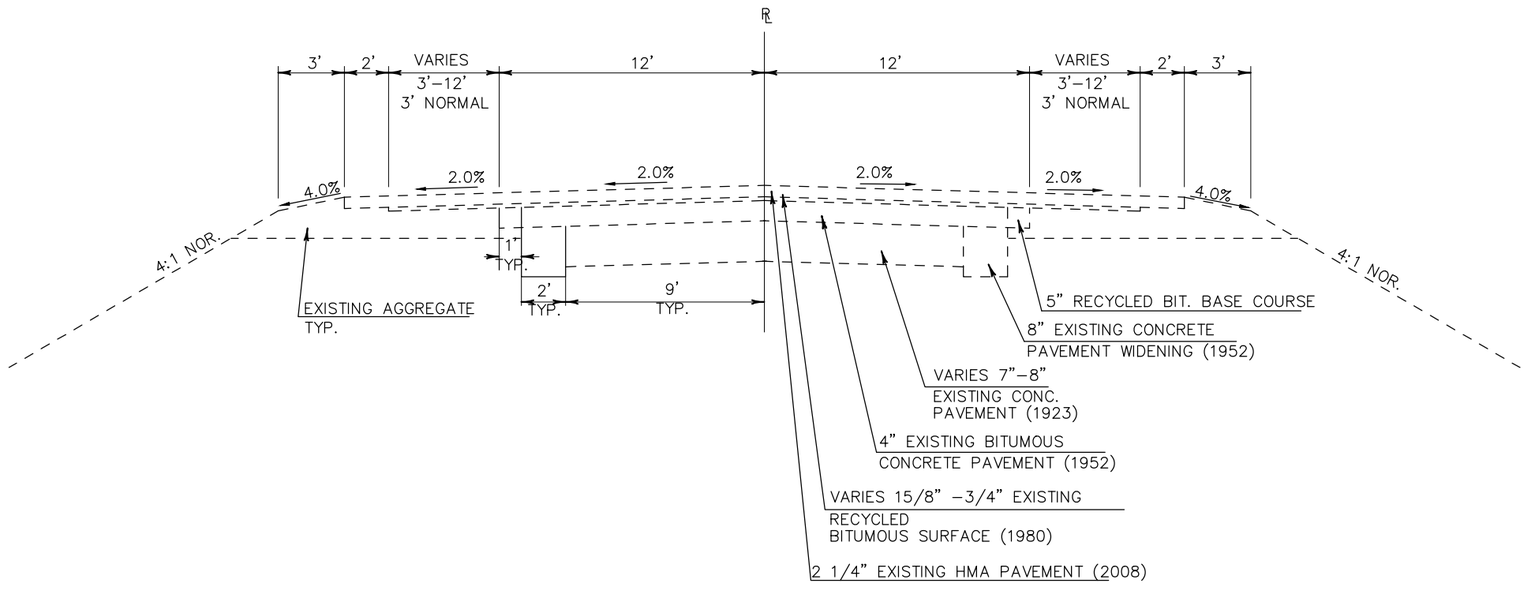
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PROJECT OVERVIEW	SHEET 4	E

2



TYPICAL EXISTING SECTION – USH 45

STA. 97+75 – STA. 134+00
STA. 255+70 – STA. 268+40

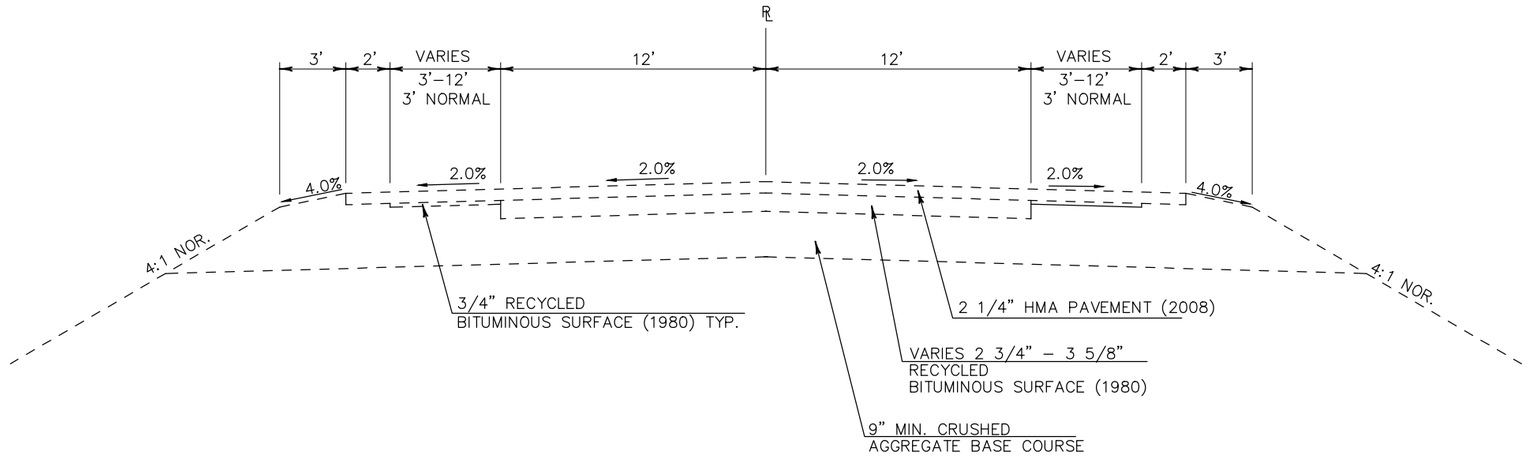


TYPICAL EXISTING SECTION – USH 45

STA. 134+00 – STA. 220+00

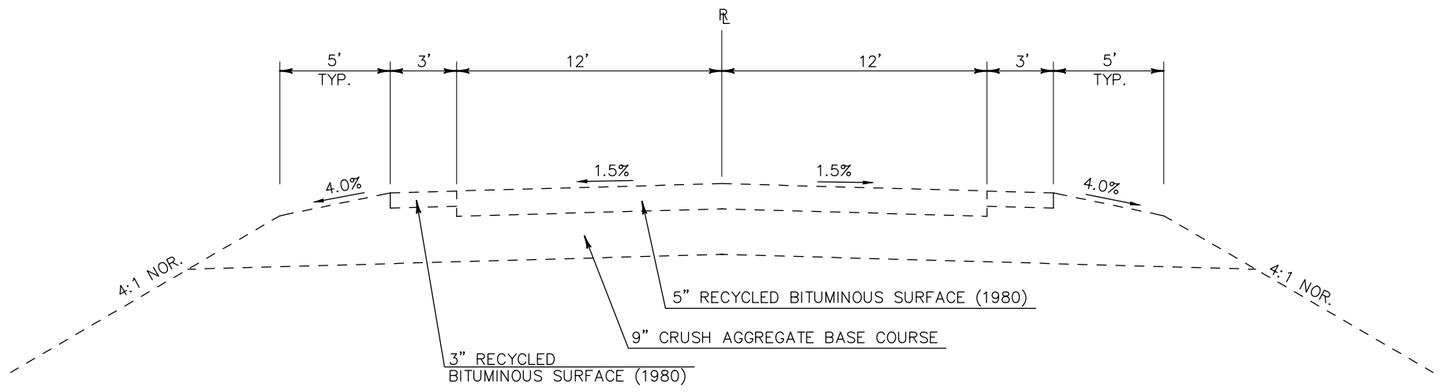
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	TYPICAL SECTION	SHEET 5	E

2



TYPICAL EXISTING SECTION – USH 45

STA. 220+00 – STA. 224+00

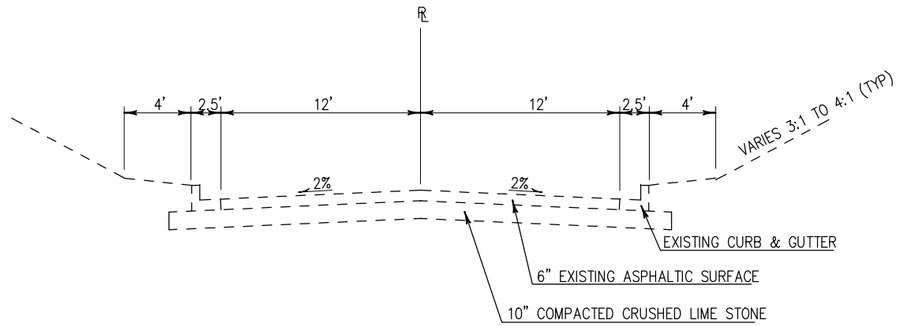


TYPICAL EXISTING SECTION – USH 45

STA. 224+00 – STA. 255+70

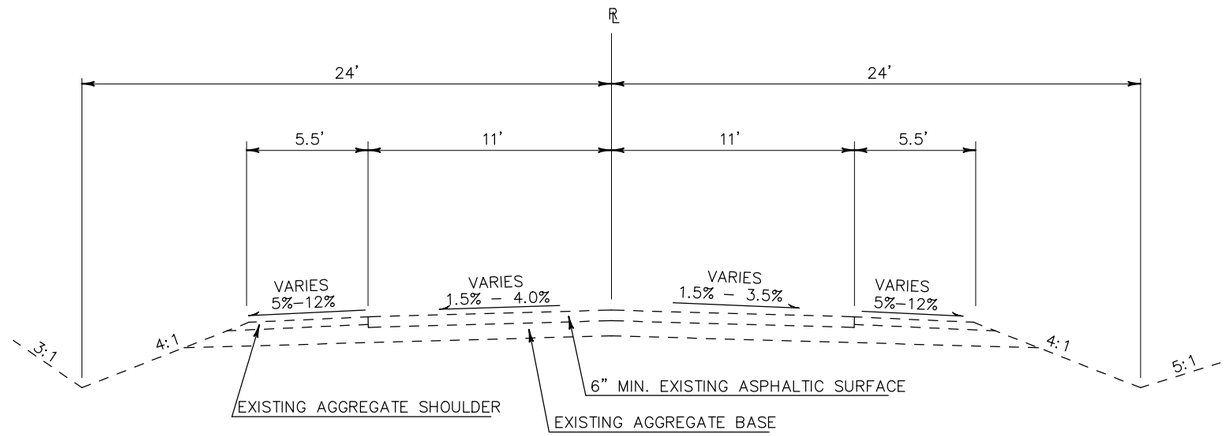
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	TYPICAL SECTION	SHEET 6	E

2



TYPICAL EXISTING SECTION

58TH STA. 50+00 – STA. 55+00

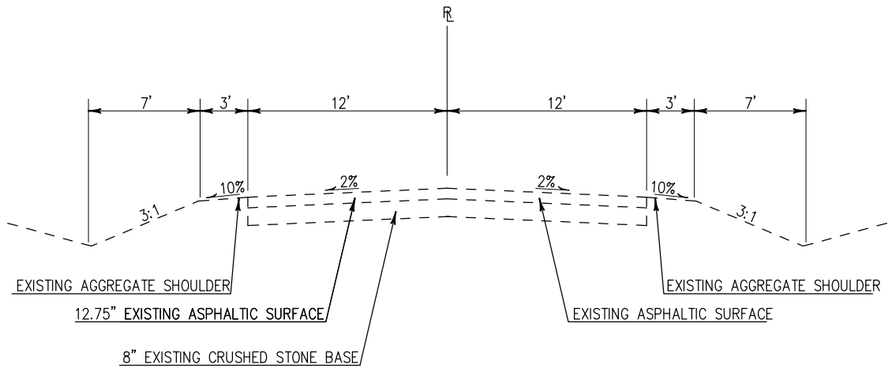


TYPICAL EXISTING SECTION

CTH C STA. 43+75 TO STA. 58+12

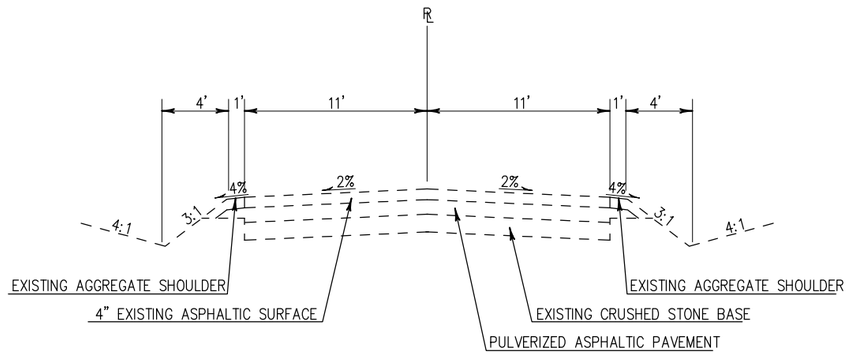
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	TYPICAL SECTION	SHEET 7	E

2



TYPICAL EXISTING SECTION

CHURCH ROAD STA. 46+50 – STA. 50+00

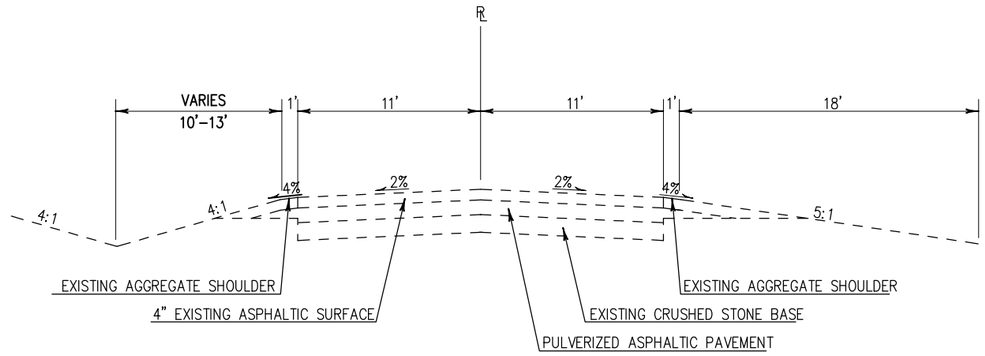


TYPICAL EXISTING SECTION

52ND ROAD STA. 50+00 TO – STA. 51+60

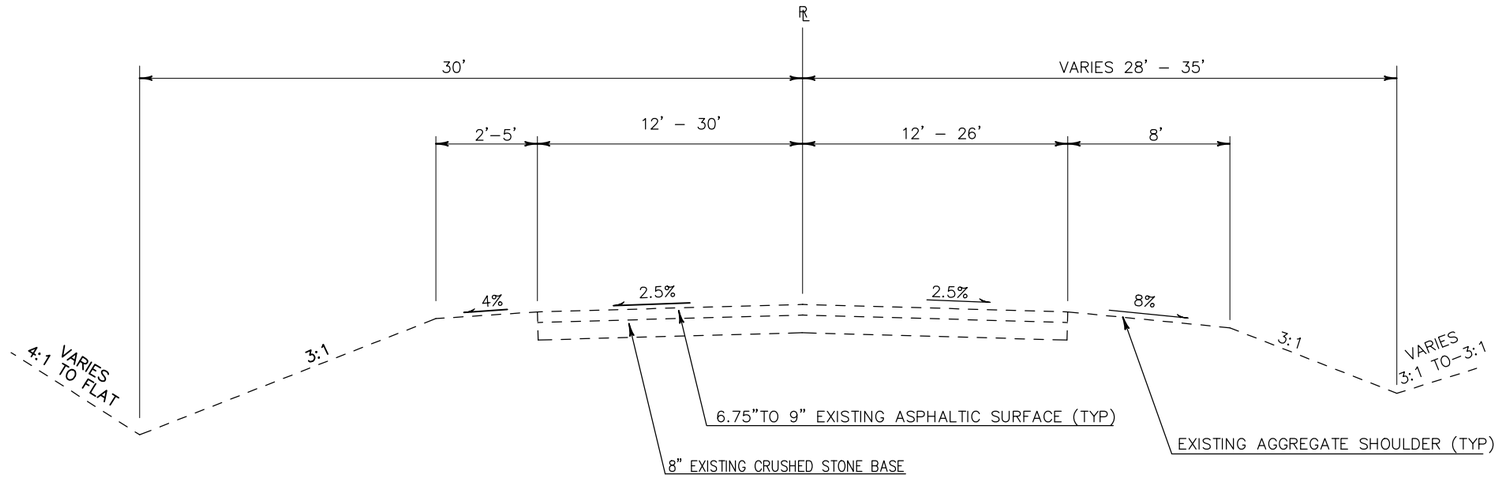
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	TYPICAL SECTION	SHEET 8	E

2



TYPICAL EXISTING SECTION

SAVAGE ROAD STA. 50+00 TO STA. 54+00

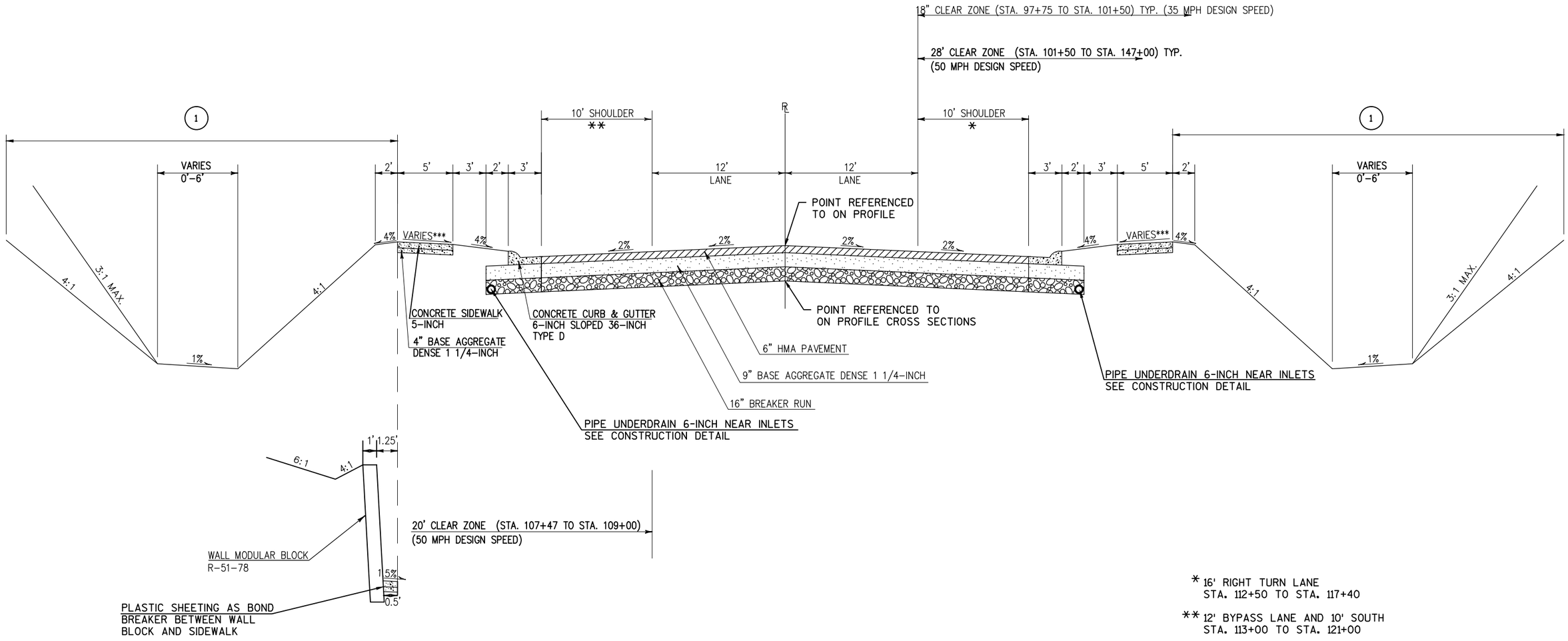


TYPICAL EXISTING SECTION

CTH A STA. 47+00 TO STA. 54+00

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	TYPICAL SECTION	SHEET 9	E

2



TYPICAL PROPOSED SECTION RETAINING WALL

USH 45 STA. 107+47 TO STA. 109+00

TYPICAL PROPOSED SECTION

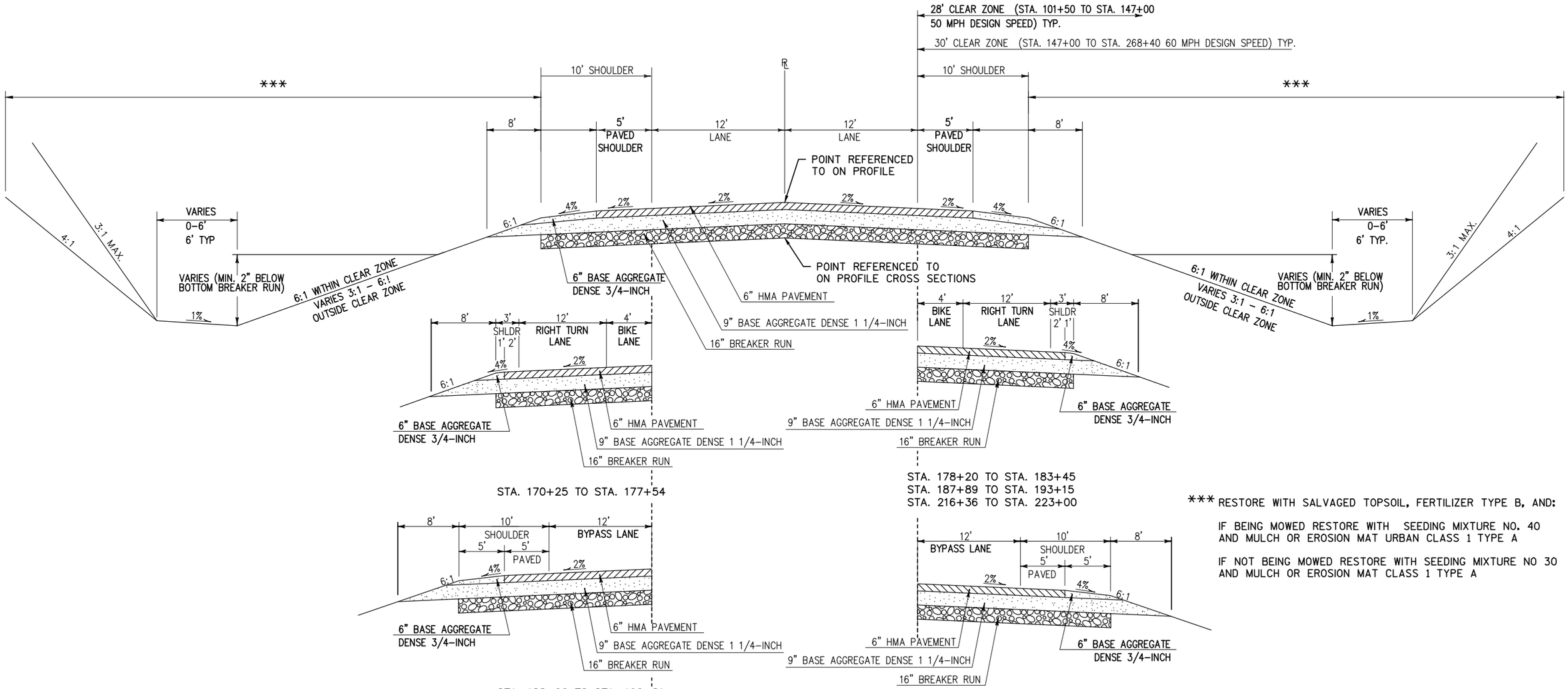
USH 45 STA. 97+75 TO STA. 121+00

* 16' RIGHT TURN LANE
STA. 112+50 TO STA. 117+40

** 12' BYPASS LANE AND 10' SOUTH
STA. 113+00 TO STA. 121+00

*** SIDEWALK SLOPE IS 1.5% TOWARD ROADWAY IN CUT AND 1.5% AWAY FROM ROADWAY IN FILL

(1) RESTORE WITH SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO. 40, AND MULCH OR EROSION MAT URBAN CLASS 1 TYPE A



*** RESTORE WITH SALVAGED TOPSOIL, FERTILIZER TYPE B, AND:

IF BEING MOWED RESTORE WITH SEEDING MIXTURE NO. 40 AND MULCH OR EROSION MAT URBAN CLASS 1 TYPE A

IF NOT BEING MOWED RESTORE WITH SEEDING MIXTURE NO 30 AND MULCH OR EROSION MAT CLASS 1 TYPE A

* 12' BYPASS LANE AND 10' SHOULDER

** 12' RIGHT TURN LANE AND 4' BIKE LANE

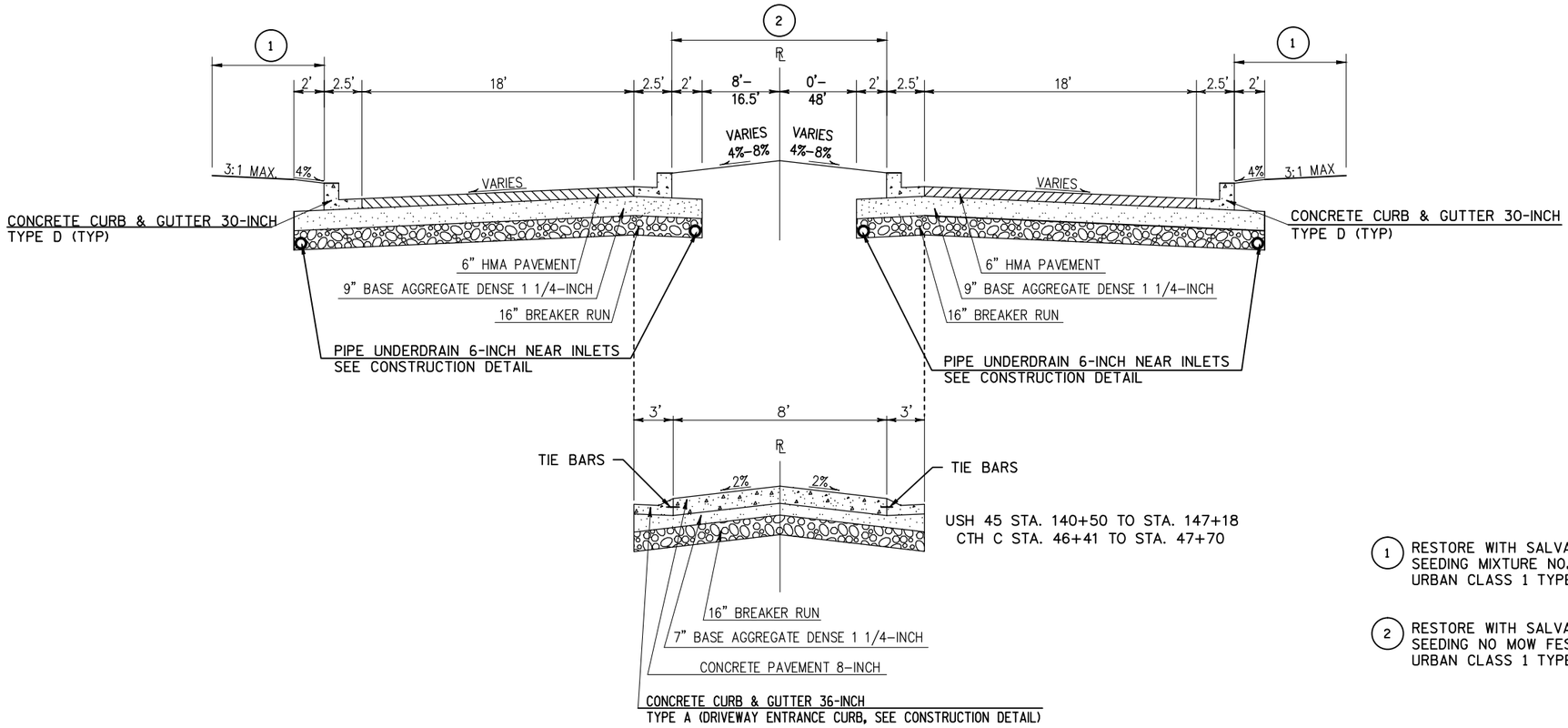
STA. 147+18 TO STA. 162+00
* STA. 177+54 TO STA. 188+00
** STA. 223+00 TO STA. 230+50
STA. 255+00 TO STA. 257+00

TYPICAL PROPOSED SECTION

USH 45 STA. 121+00 TO STA. 126+00
USH 45 STA. 147+18 TO STA. 268+40

STA. 121+00 TO STA. 126+00
STA. 183+45 TO STA. 185+50
STA. 193+15 TO STA. 197+00
STA. 246+00 TO STA. 249+50

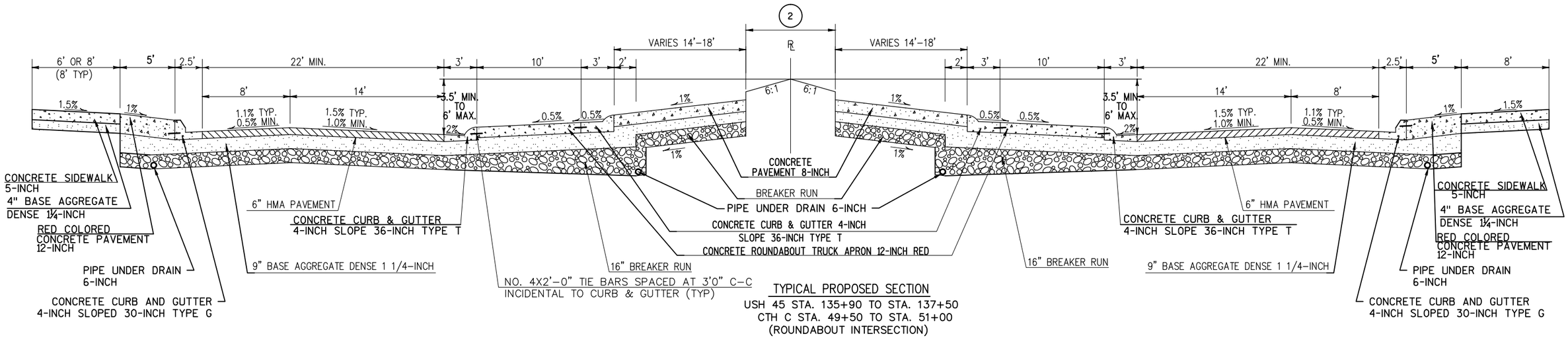
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	TYPICAL SECTION	SHEET 11	E



TYPICAL PROPOSED SECTION
USH 45 STA. 126+00 TO STA. 135+90
USH 45 STA. 137+50 TO STA. 147+18
CTH C STA. 46+41 TO STA. 49+50
CTH C STA. 51+00 TO STA. 55+00

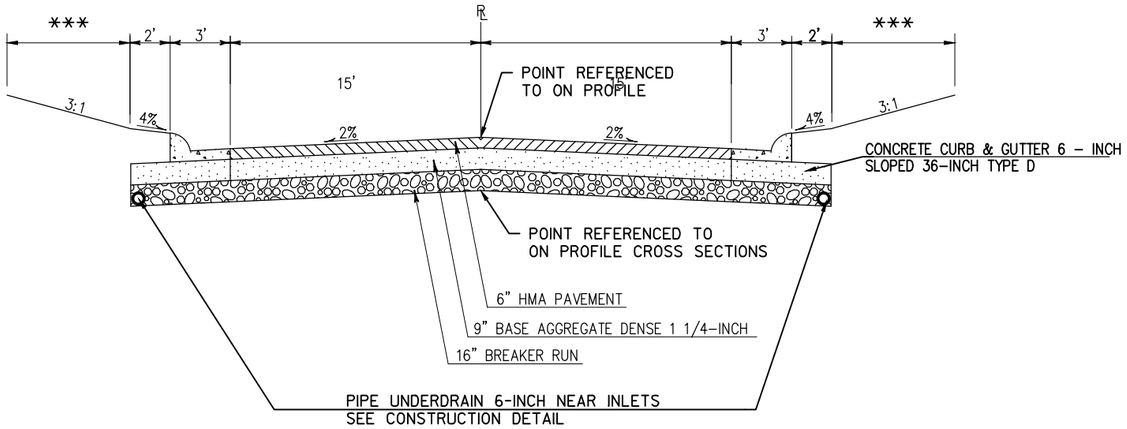
(1) RESTORE WITH SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING MIXTURE NO. 40, AND MULCH OR EROSION MAT URBAN CLASS 1 TYPE A

(2) RESTORE WITH SALVAGED TOPSOIL, FERTILIZER TYPE B, SEEDING NO MOW FESCUE, AND MULCH OR EROSION MAT URBAN CLASS 1 TYPE A



TYPICAL PROPOSED SECTION
USH 45 STA. 135+90 TO STA. 137+50
CTH C STA. 49+50 TO STA. 51+00
(ROUNDABOUT INTERSECTION)

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	TYPICAL SECTION	SHEET 12	E

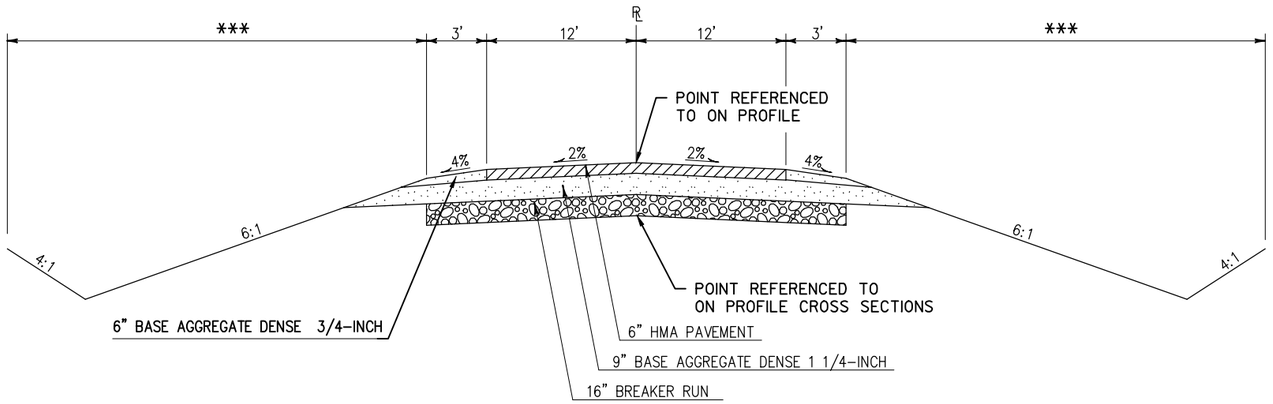


TYPICAL PROPOSED SECTION
58TH ROAD STA. 50+00 – STA. 55+00

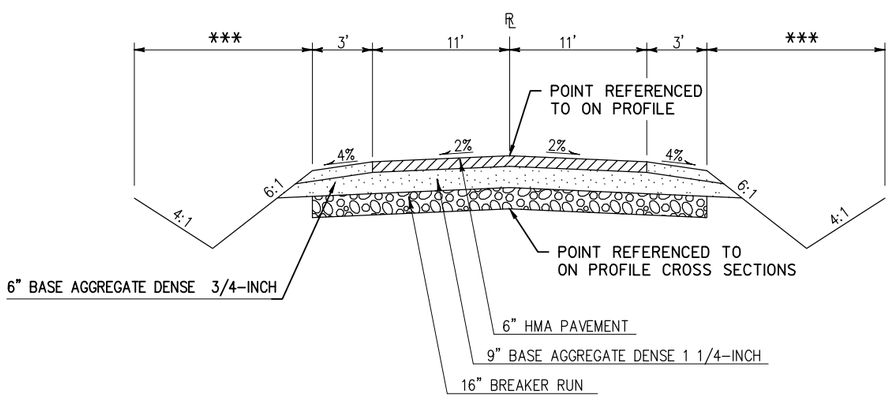
*** RESTORE WITH SALVAGED TOPSOIL, FERTILIZER TYPE B, AND:

IF BEING MOWED RESTORE WITH SEEDING MIXTURE NO. 40
AND MULCH OR EROSION MAT URBAN CLASS 1 TYPE A

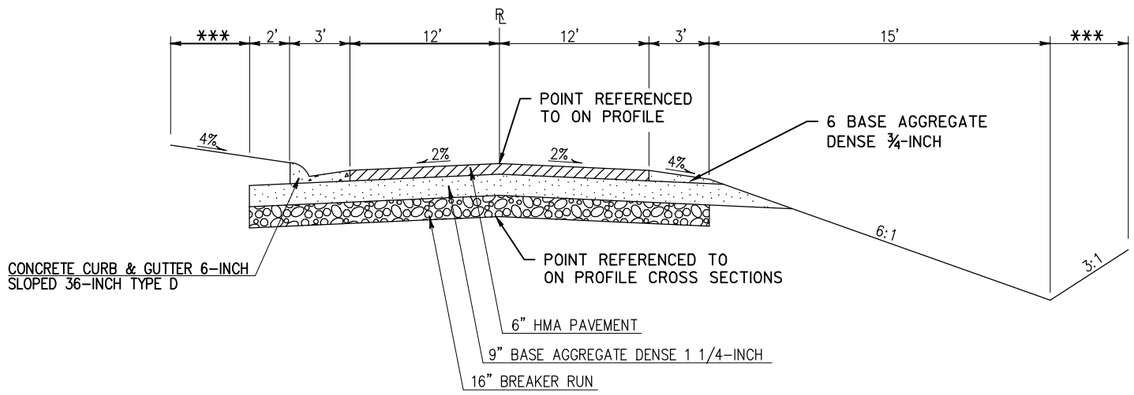
IF NOT BEING MOWED RESTORE WITH SEEDING MIXTURE NO 30
AND MULCH OR EROSION MAT CLASS 1 TYPE A



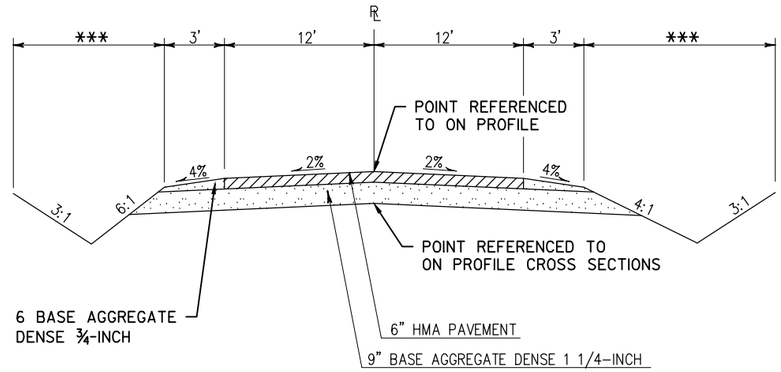
TYPICAL PROPOSED SECTION
CHURCH ROAD STA. 46+50 TO STA. 50+00



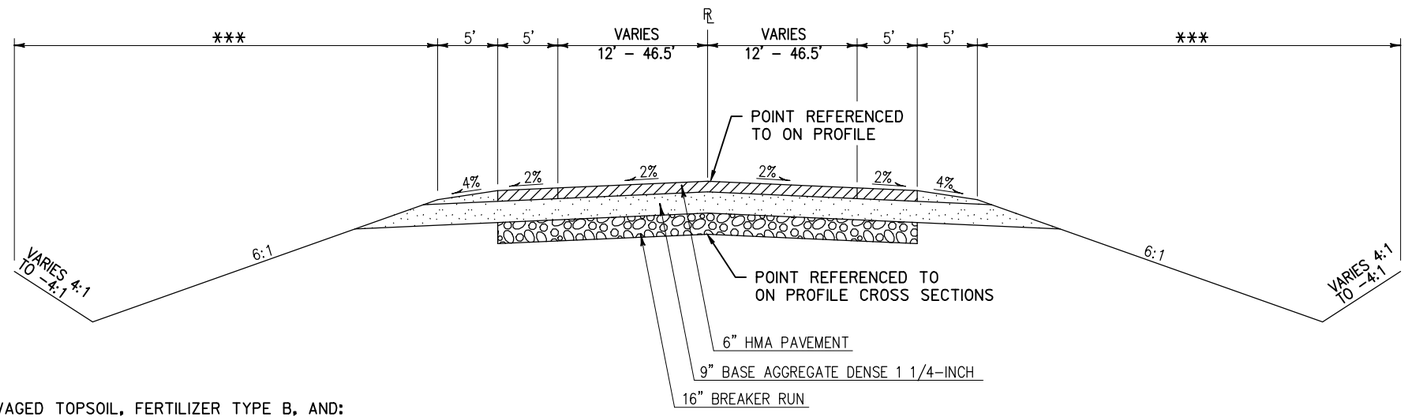
TYPICAL PROPOSED SECTION
52ND ROAD STA. 50+00 – STA. 51+60



TYPICAL PROPOSED SECTION
SAVAGE ROAD STA. 50+00 TO STA. 52+00



TYPICAL PROPOSED SECTION
SAVAGE ROAD STA. 52+00 TO STA. 54+00



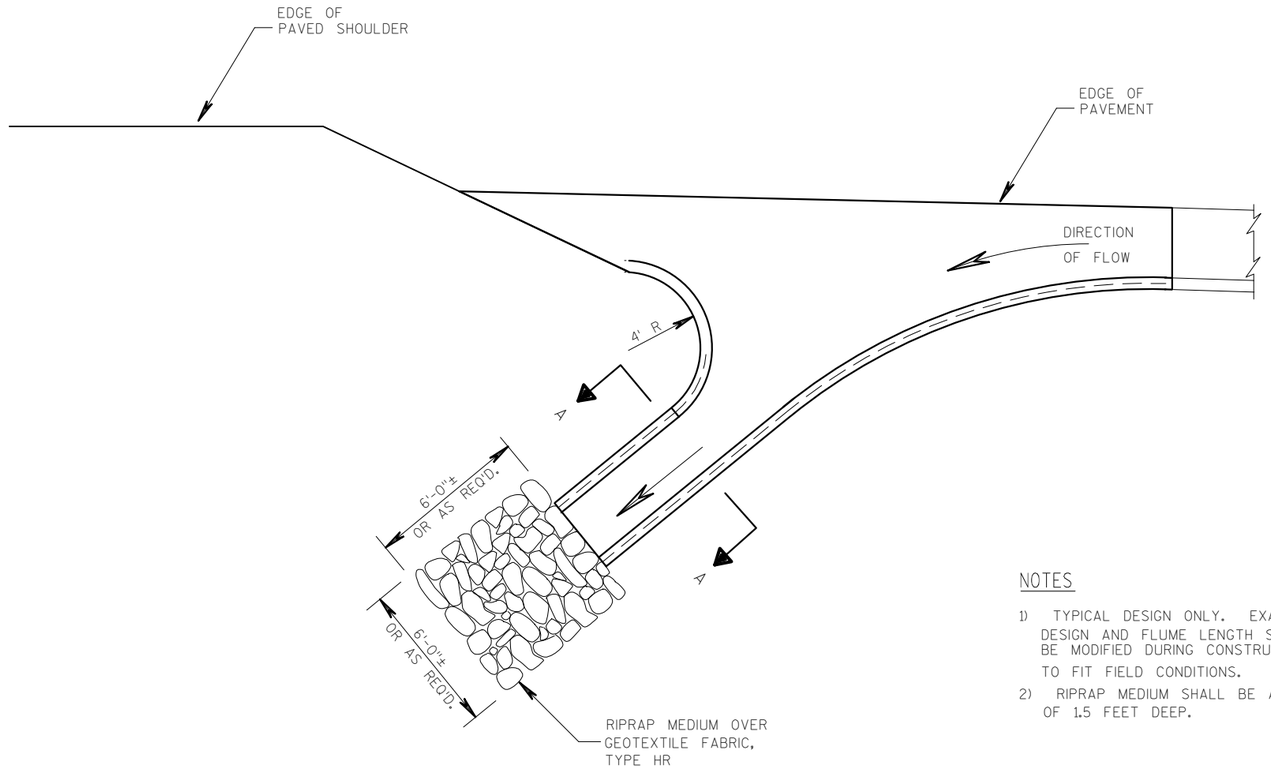
*** RESTORE WITH SALVAGED TOPSOIL, FERTILIZER TYPE B, AND:

IF BEING MOWED RESTORE WITH SEEDING MIXTURE NO. 40
AND MULCH OR EROSION MAT URBAN CLASS 1 TYPE A

IF NOT BEING MOWED RESTORE WITH SEEDING MIXTURE NO 30
AND MULCH OR EROSION MAT CLASS 1 TYPE A

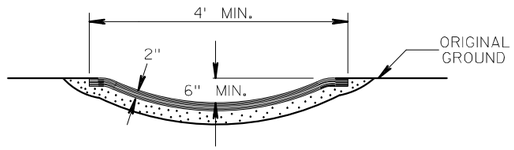
TYPICAL PROPOSED SECTION
CTH A STA. 47+00 TO STA. 54+00

2



NOTES

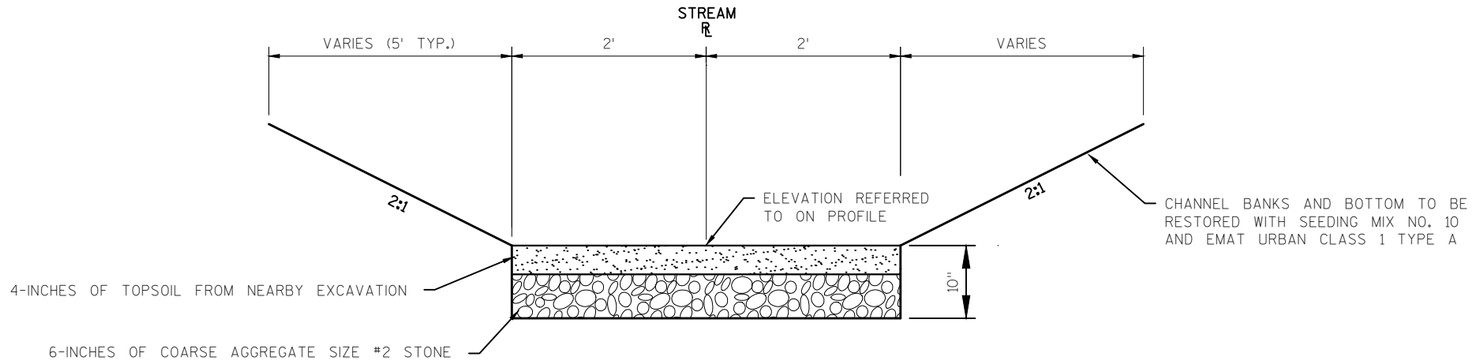
1) TYPICAL DESIGN ONLY. EXACT DESIGN AND FLUME LENGTH SHALL BE MODIFIED DURING CONSTRUCTION TO FIT FIELD CONDITIONS.
2) RIPRAP MEDIUM SHALL BE A MINIMUM OF 1.5 FEET DEEP.



SECTION A-A

ASPHALTIC FLUME DETAIL

2

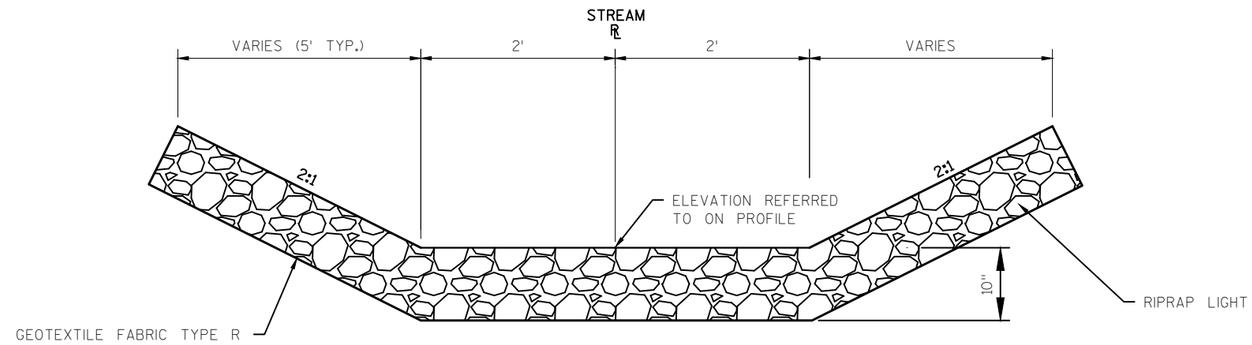


TYPICAL SECTION - PROPOSED RELOCATED STREAMS

TRIBUTARY TO THE WEST BRANCH
OF THE ROOT RIVER CANAL

TO BE USED AT LOCATIONS WHERE VEGETATION
CAN BE ESTABLISHED PRIOR TO OPENING TO STREAM FLOW

NOTE: DO NOT APPLY FERTILIZER WITHIN 20FT OF A WETLAND OR WATERWAY.



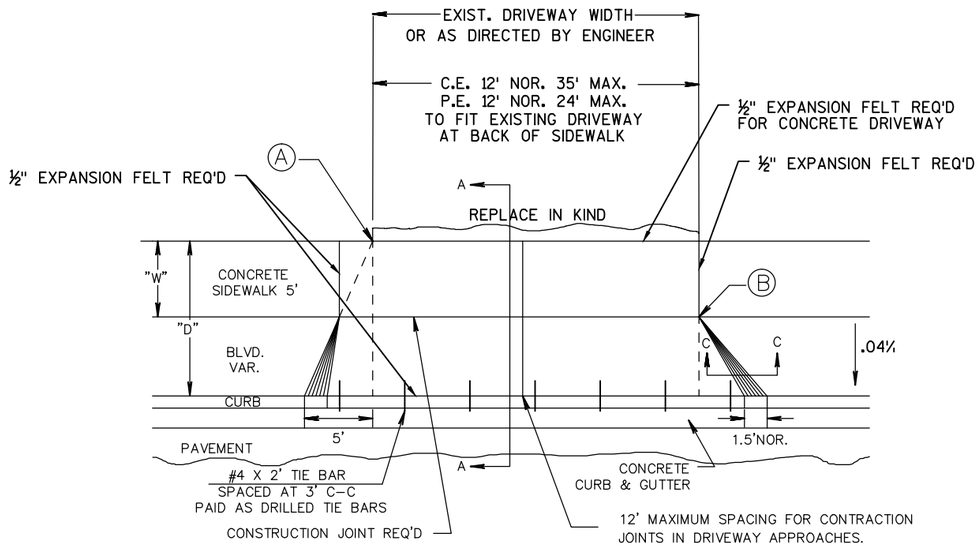
TYPICAL SECTION - PROPOSED RELOCATED STREAMS

TRIBUTARY TO THE WEST BRANCH
OF THE ROOT RIVER CANAL

TO BE USED AT LOCATIONS WHERE VEGETATION
CANNOT BE ESTABLISHED PRIOR TO OPENING TO STREAM FLOW

2

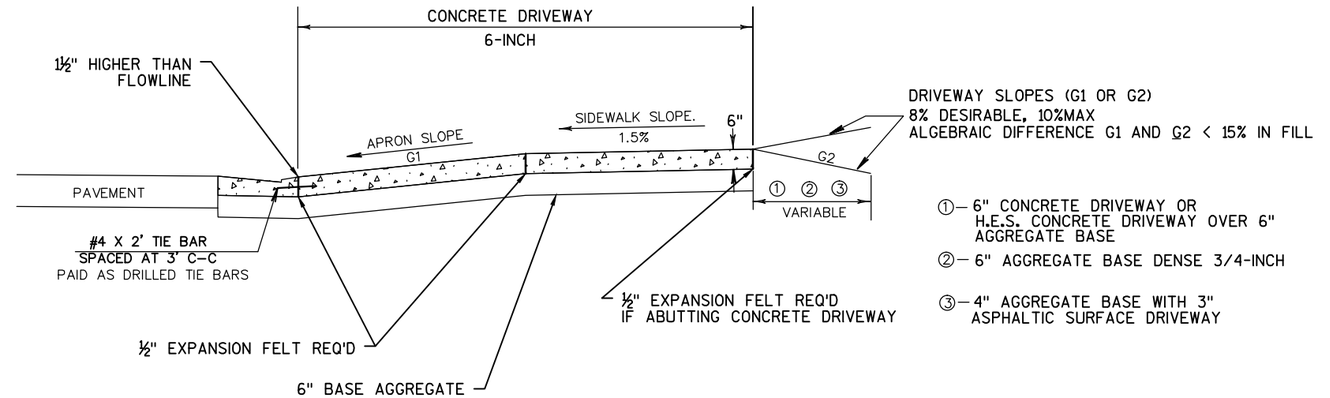
DRIVEWAY ENTRANCE DETAIL WITH SIDEWALK, CURB & GUTTER



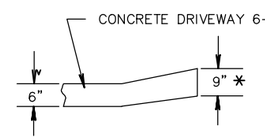
PLAN VIEW

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

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

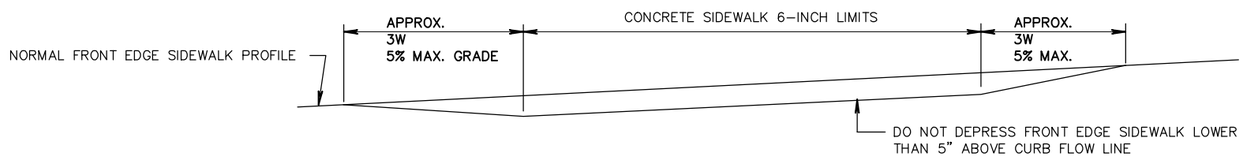


SECTION A–A



SECTION C–C

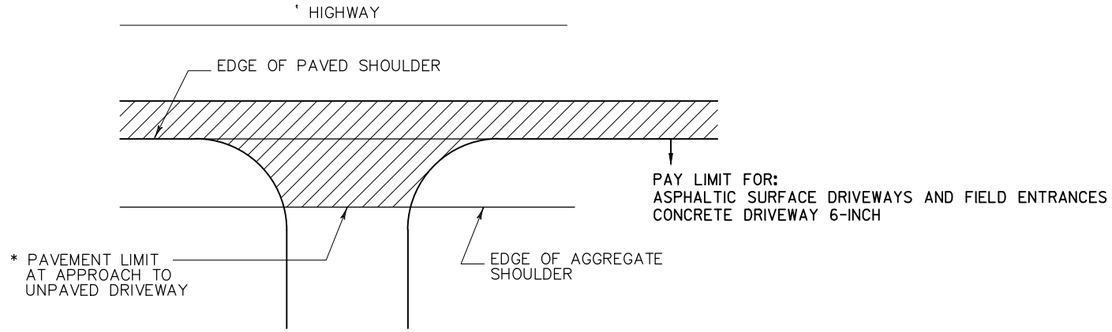
* ADDITION CONCRETE THICKNESS IS INCIDENTAL TO CONCRETE DRIVEWAY 6-INCH ITEM



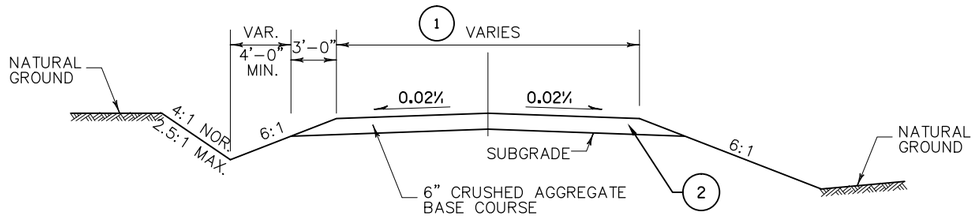
DEPRESSED SIDEWALK PROFILE DETAIL

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CONSTRUCTION DETAIL	SHEET 17	E

2



PLAN VIEW

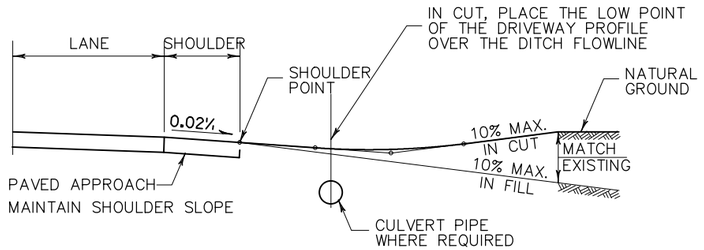


IN CUT IN FILL

TYPICAL CROSS SECTION

(1) DRIVEWAY WIDTHS:
COMMERCIAL, 35' MAX, 12' MIN
NON-COMMERCIAL 24' MAX, 12' MIN
SEE PAVING DETAIL SHEETS FOR WIDTH REQUIRED

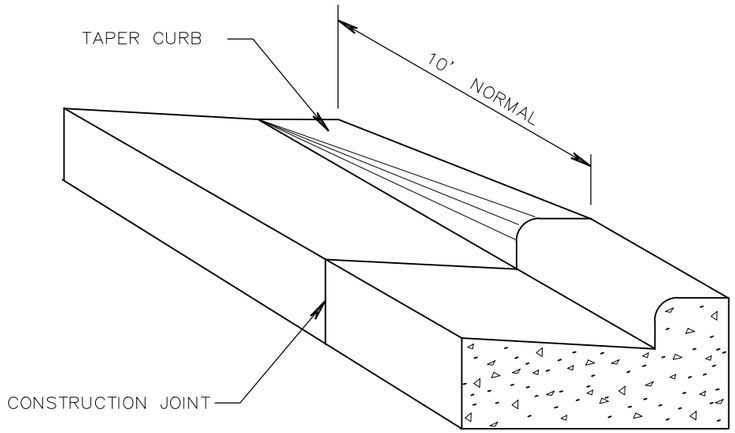
(2) DRIVEWAY SURFACE SHALL BE PLACED
IN-KIND WITH MINIMUM SECTION OF:
ASPHALT - 3" ASPHALTIC SURFACE FOR DRIVEWAYS AND
FIELD ENTRANCES ON 4" BASE AGGREGATE DENSE 1¼-INCH
CONCRETE - 6" CONCRETE ON 4" BASE AGGREGATE DENSE 1¼-INCH
BASE AGGREGATE DENSE - 6" BASE AGGREGATE DENSE ¾-INCH



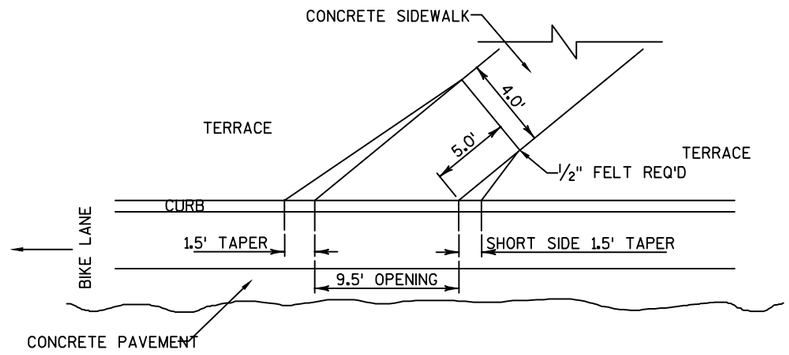
TYPICAL PROFILE

DEPRESSED SIDEWALK PROFILE DETAIL

PROJECT NO:2430-06-70	HWY: USH 45	COUNTY: RACINE	CONSTRUCTION DETAIL	SHEET 18	E



DETAIL OF CURB & GUTTER TERMINI

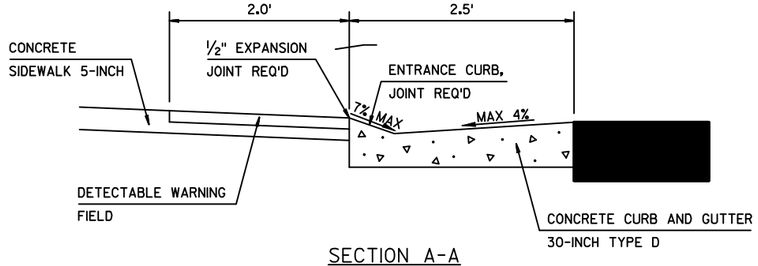


help

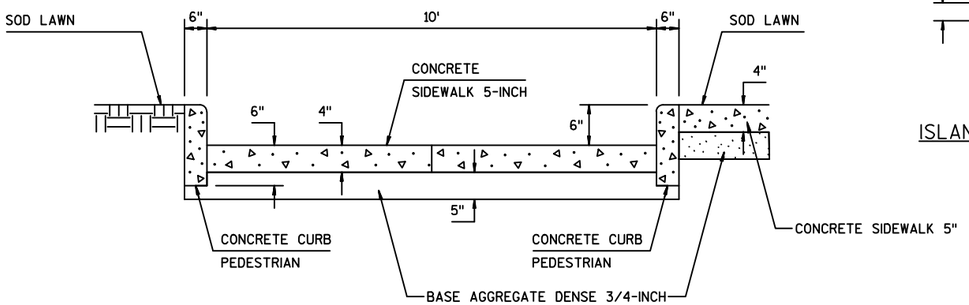
PLAN VIEW

SIDEWALK CONNECTION TO BIKE PATH DETAIL

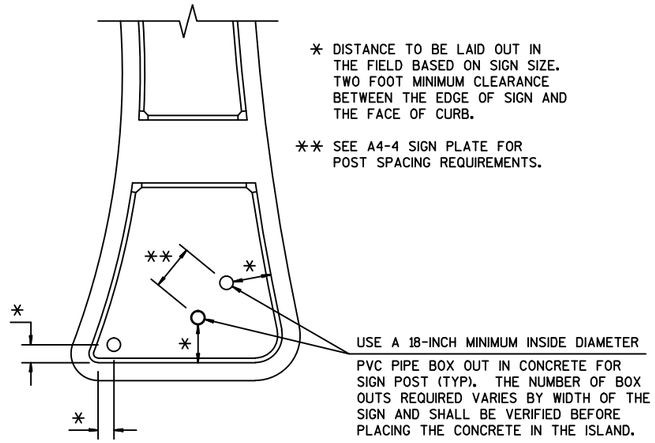
STA. 134+24, LT	STA. 48C+27, LT
STA. 134+97, RT	STA. 48C+21, RT
STA. 138+48, LT	STA. 51C+83, RT
STA. 138+49, RT	STA. 52C+05, LT



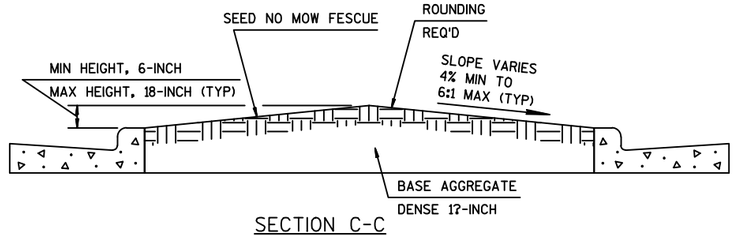
SECTION A-A



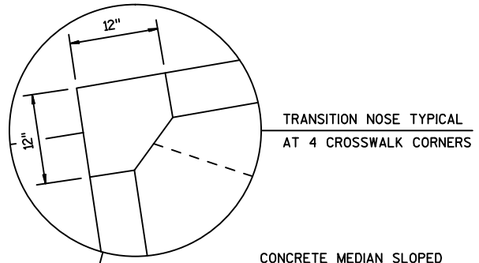
SECTION B-B



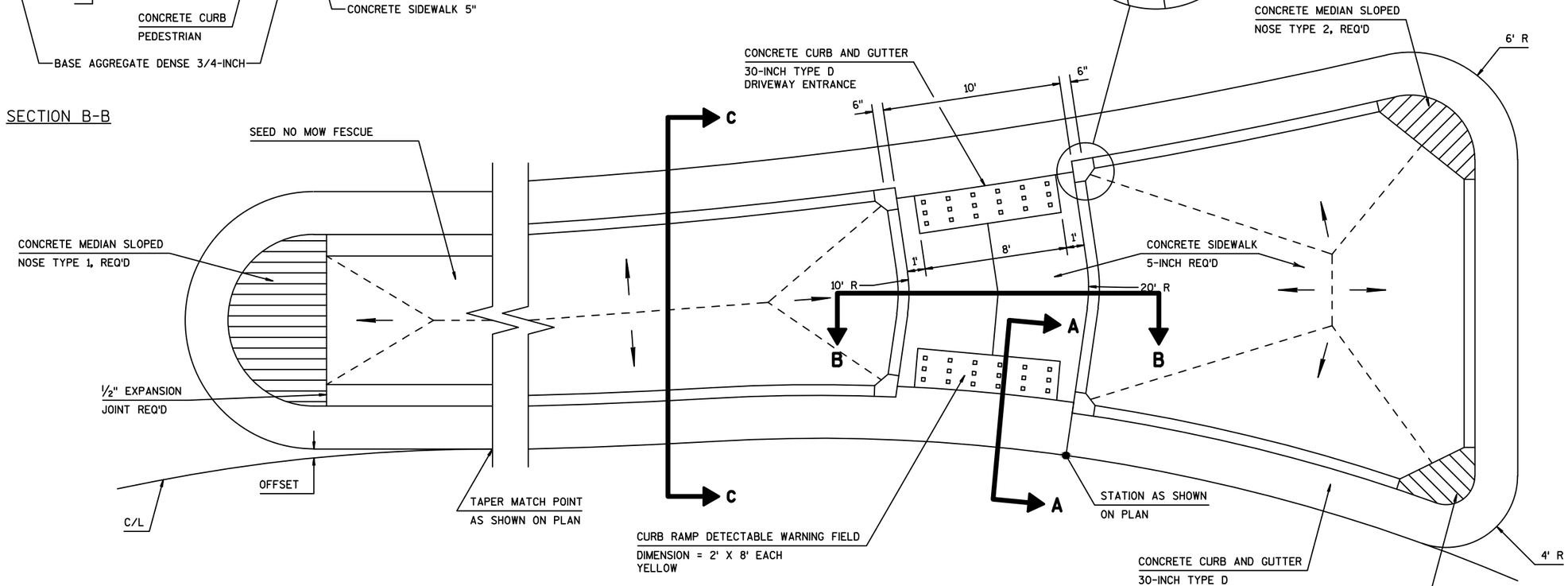
ISLAND SIGN LOCATION DETAIL (TYP)



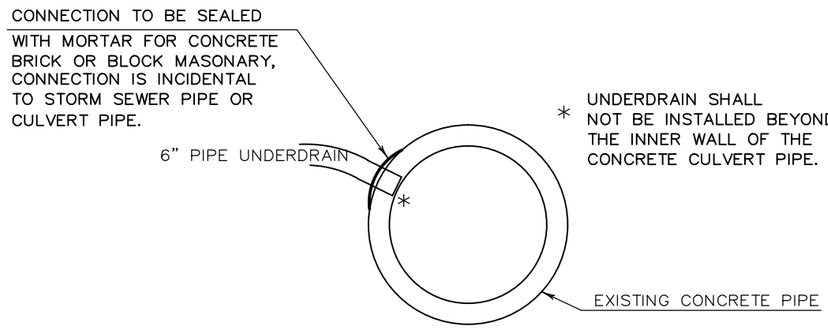
SECTION C-C



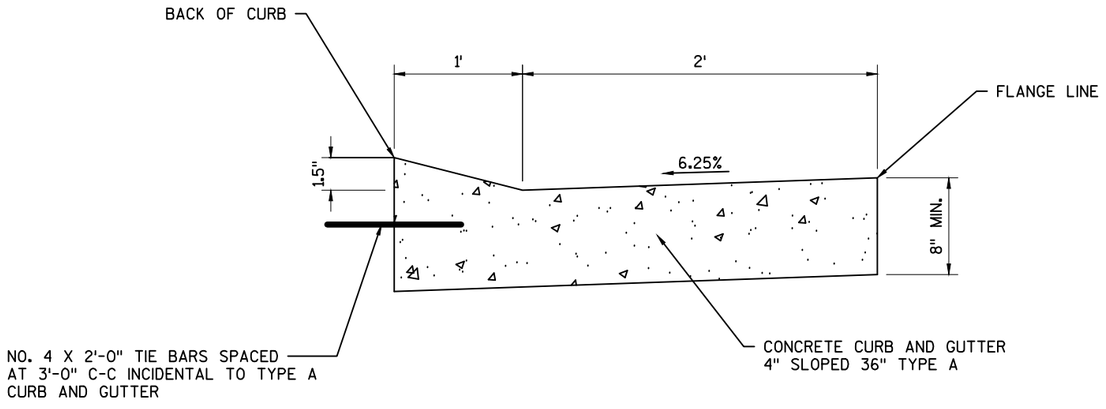
TRANSITION NOSE TYPICAL
AT 4 CROSSWALK CORNERS



SPLITTER ISLAND DETAIL

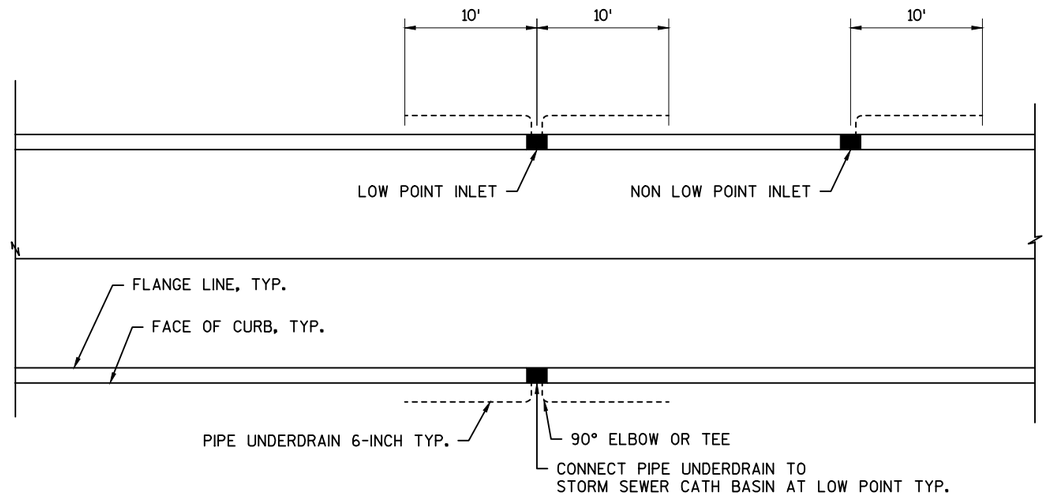


PIPE UNDERDRAIN CONNECTION TO CONCRETE CULVERTS & STORM SEWER

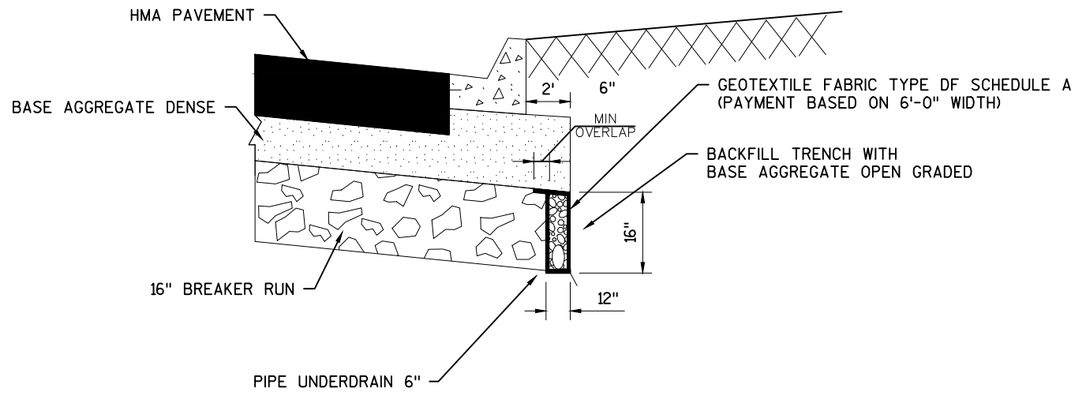


DRIVEWAY ENTRANCE CURB

USH 45 MEDIAN STA. 140+50 TO STA. 147+18
CTH C MEDIAN STA. 46+41 TO STA. 47+70



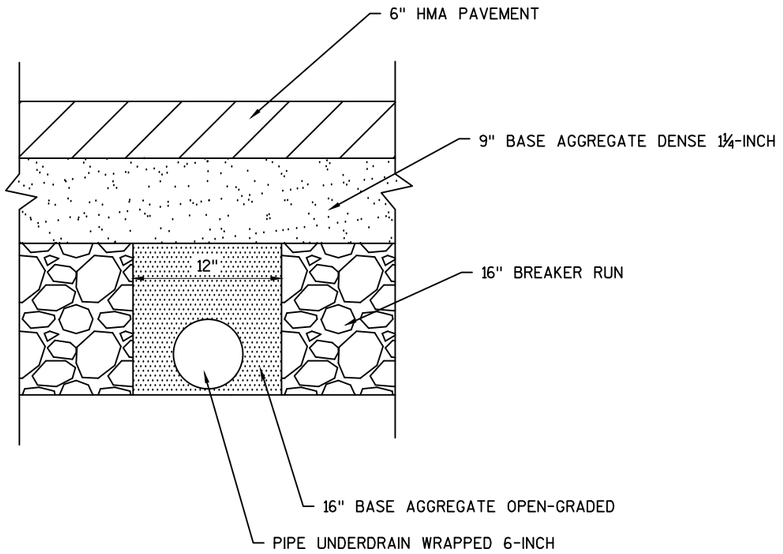
PLAN VIEW



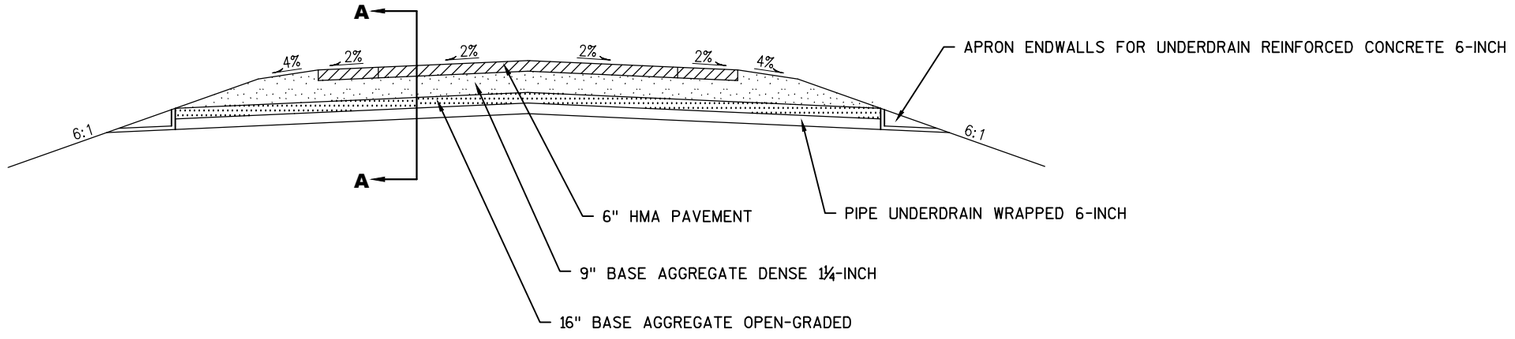
UNDERDRAIN TRENCH DETAIL

10' EACH SIDE OF INLET AT LOW POINTS,
10' ON HIGH SIDE OF INLET AT ALL OTHER INLETS
CONNECT PIPE UNDERDRAIN TO INLETS
SEE SDD EDGEDRAIN OUTLET AND OUTFALL MARKERS

2

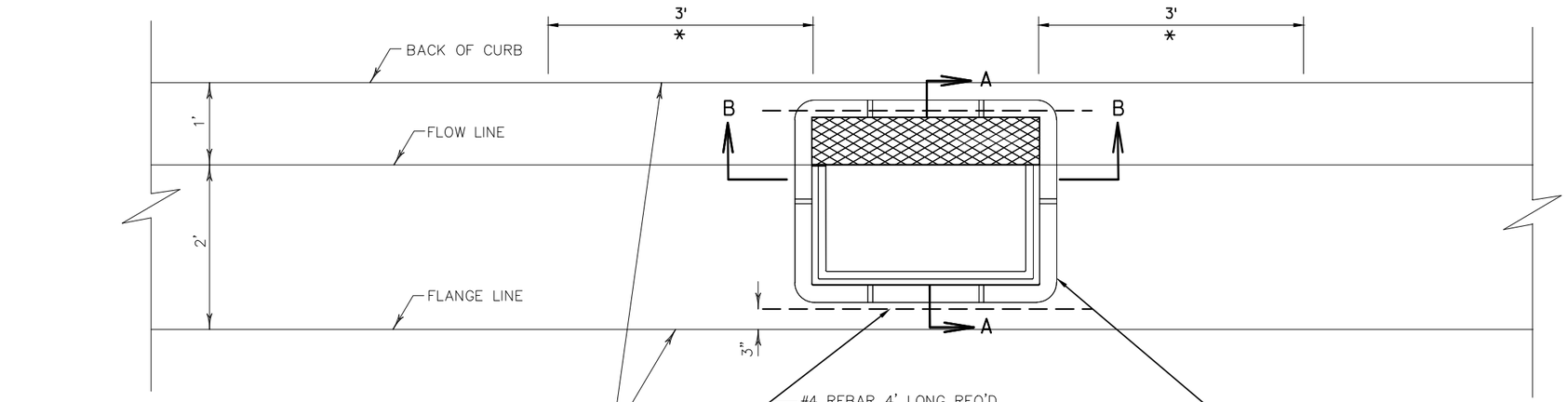


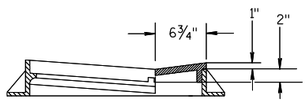
SECTION A–A



UNDERDRAIN TRENCH DETAIL
RURAL CROSS SECTION

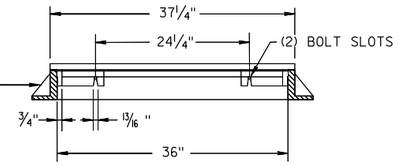
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CONSTRUCTION DETAIL	SHEET 22	E





SECTION A-A

PLAN VIEW

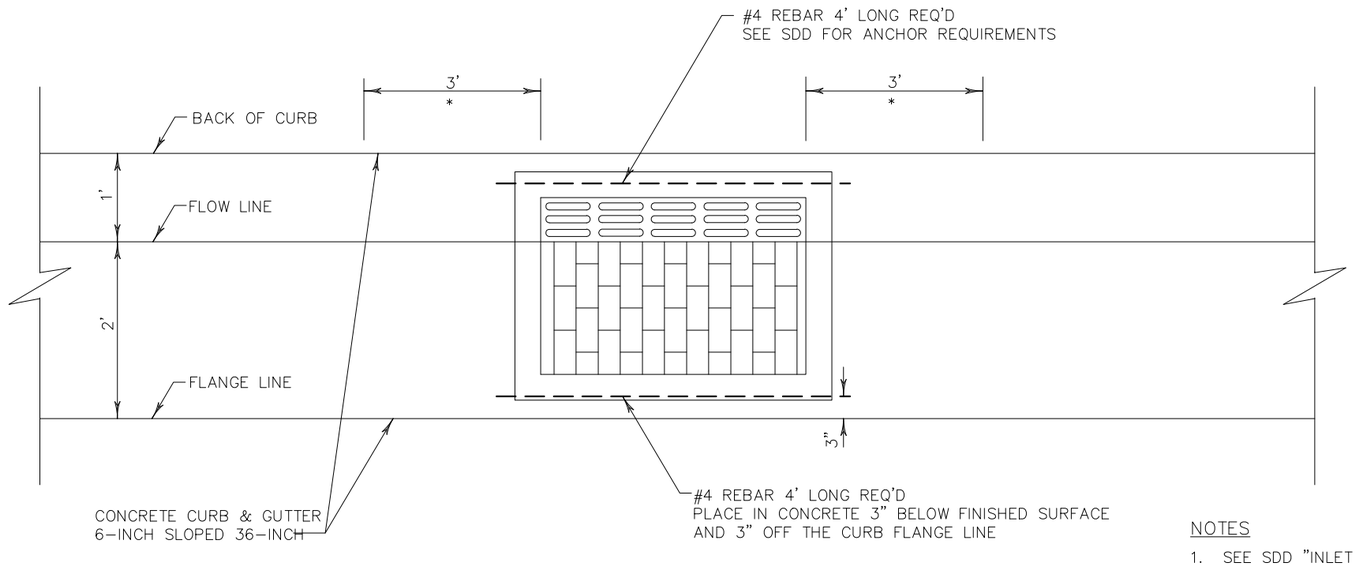


SECTION B-B

* TRANSITION CONCRETE CURB & GUTTER 6-INCH SLOPE 36-INCH TYPE D DRIVEWAY CURB TO MATCH INLET COVER TYPE H WITH CURB PLATE

INLET COVER TYPE H WITH CURB PLATE

(WITH MOUNTABLE CURB PLATE) APPROXIMATE WT. (375 LBS.)



PLAN VIEW

* TRANSITION STANDARD CURB HEAD TO MATCH THE TYPE HM INLET COVER.

INLET COVERS, TYPE HM & HM-S

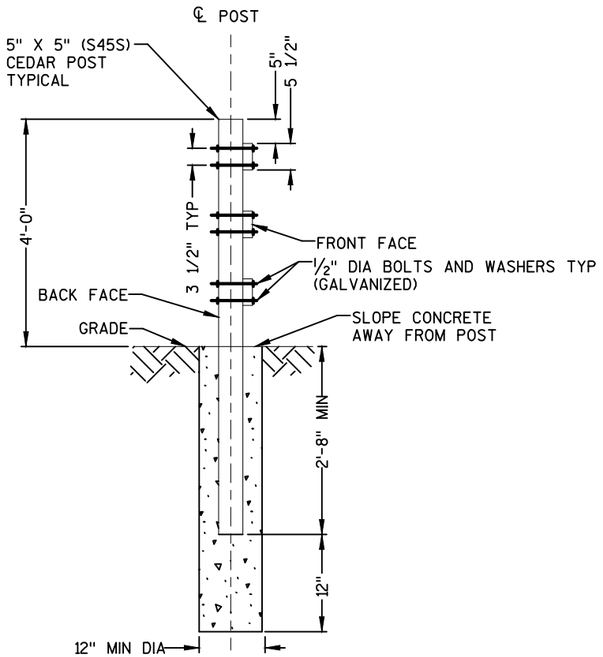
NOTES

1. SEE SDD "INLET COVERS TYPE F, HM, HM-S, S, V, HM-GJ, & HM-GJ-S" FOR ADDITIONAL INFORMATION.
2. THE TWO 3-FOOT LONG CURB TRANSITION SEGMENTS ARE PAID AS CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH.
3. THE TWO 4-FOOT LENGTHS OF #4 REBAR ARE INCIDENTAL TO THE BID ITEM "INLET COVERS TYPE HM" AND "INLET COVERS TYPE HM-S".

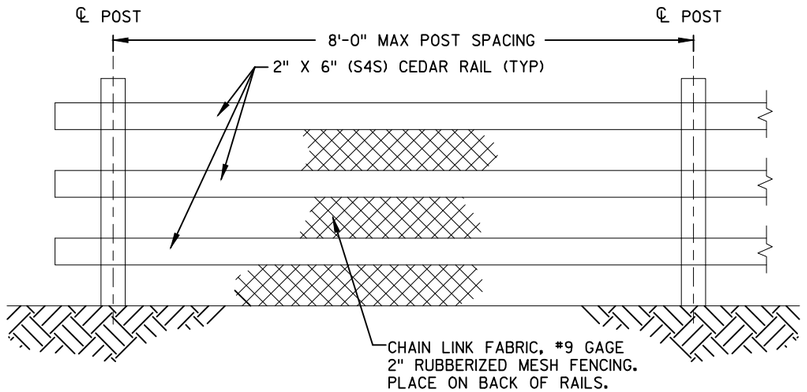
2

NOTES

HARDWARE, POST CONCRETE AND MESH FENCING INCIDENTAL TO THE BID ITEM "TIMBER FENCE".

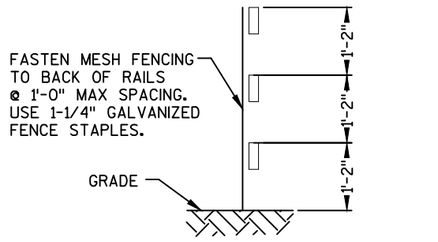


POST DETAIL

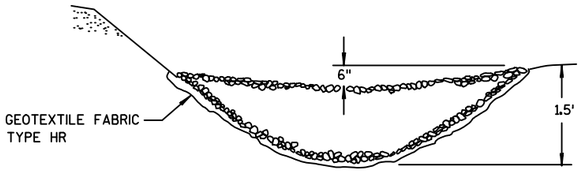


TIMBER FENCE DETAIL

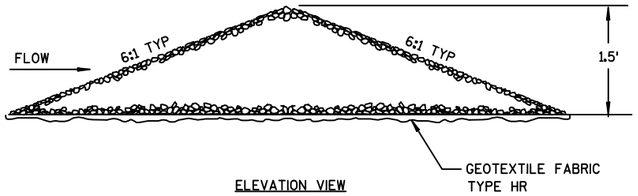
FOR WALL MODULAR BLOCK GRAVITY
STA. 107+24 TO STA. 109+00 LT



MESH FENCING CONNECTION



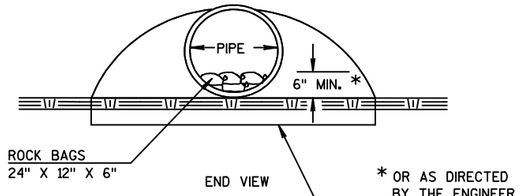
CROSS SECTIONAL VIEW



ELEVATION VIEW

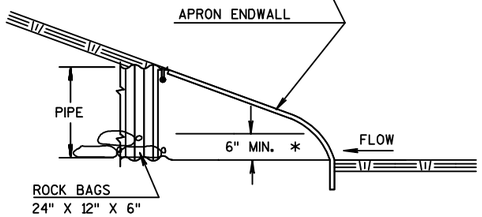
PERMANENT STONE OR ROCK DITCH CHECK DETAIL

SEE EROSION CONTROL
PLAN FOR LOCATIONS



END VIEW

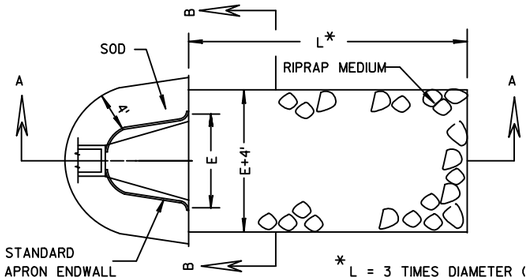
* OR AS DIRECTED
BY THE ENGINEER



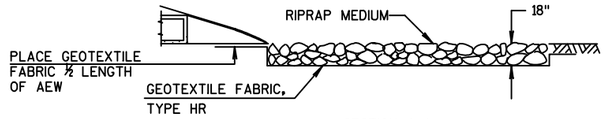
SIDE VIEW

CULVERT PIPE CHECKS

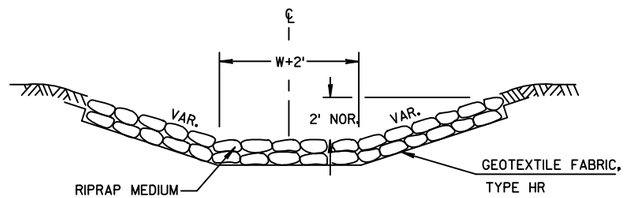
PLACE AT UPSTREAM CULVERTS PIPE END



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



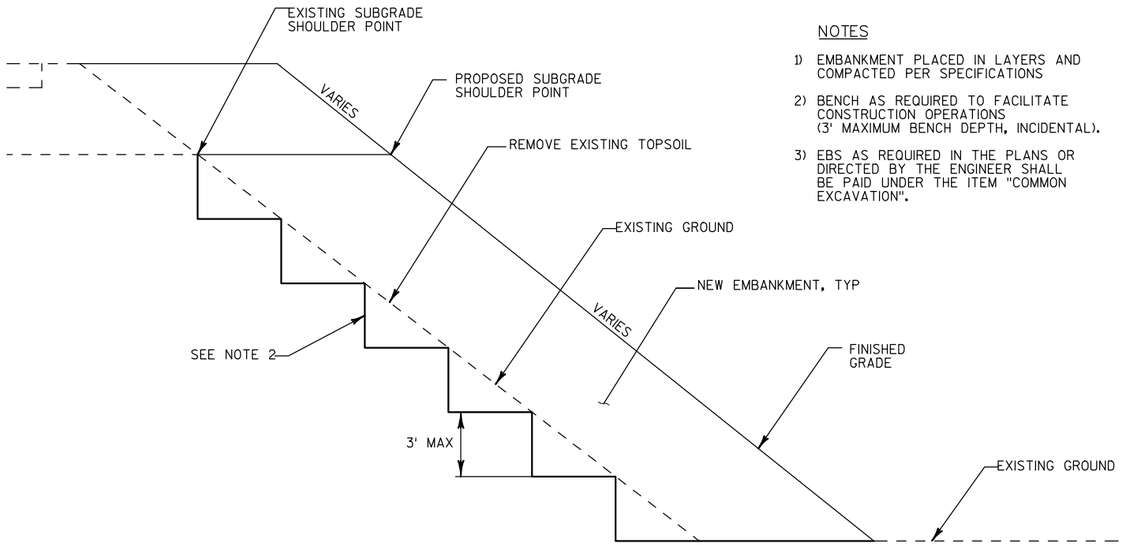
SECTION A-A



SECTION B-B

RIPRAP MEDIUM AND GEOTEXTILE FABRIC

SEE EROSION CONTROL
PLAN FOR LOCATIONS

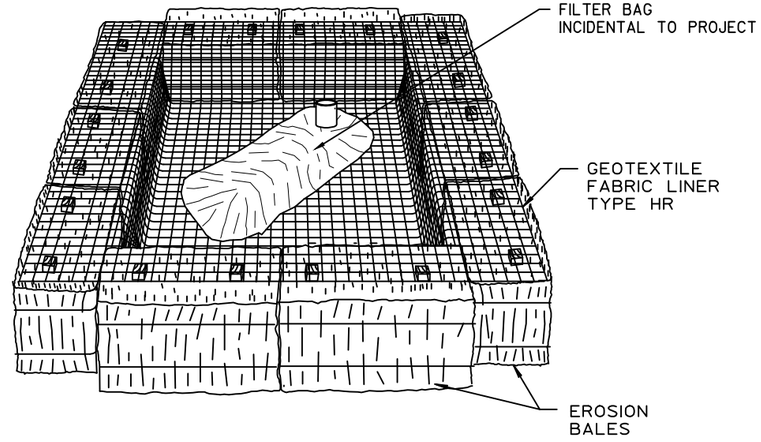


NOTES

1) EMBANKMENT PLACED IN LAYERS AND COMPACTED PER SPECIFICATIONS
2) BENCH AS REQUIRED TO FACILITATE CONSTRUCTION OPERATIONS (3' MAXIMUM BENCH DEPTH, INCIDENTAL).
3) EBS AS REQUIRED IN THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE PAID UNDER THE ITEM "COMMON EXCAVATION".

STEPPED EMBANKMENT

EXISTING EMBANKMENT TO REMAIN



NOTES

GEOTEXILE FABRIC AND EROSION BALES WILL BE PAID UNDER THE ITEMS "GEOTEXTILE TYPE HR" AND "EROSION BALES"

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.

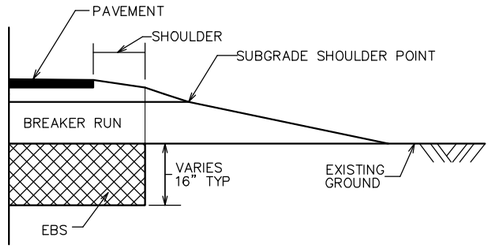
SOLUTION:

SV (C.F.) = 16 X 50

SV = 800 C.F.

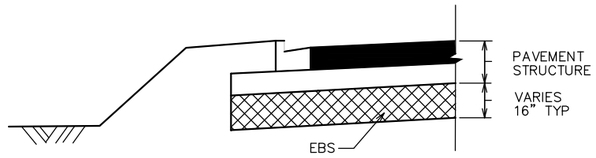
$\frac{800 \text{ C.F.}}{1.5 \text{ FT.}}$ = 533 S.F.

USE A 20 FT. X 27 FT. BASIN



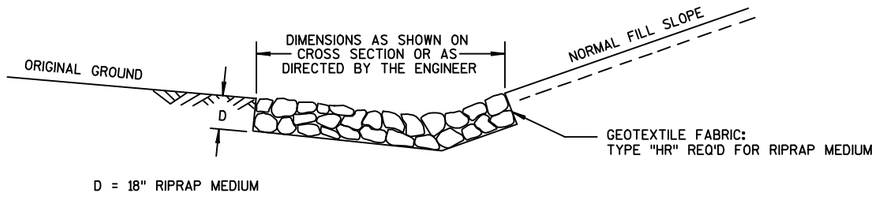
NOTES:
1. EBS SHALL BE PAID FOR AS EXCAVATION COMMON. UNDISTRIBUTED AMOUNT LISTED IN EARTHWORK SUMMARY.
2. EXACT LOCATIONS AND EXTENT OF EBS SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
3. FILL VOID WITH BREAKER RUN.
4. UNDERDRAIN TO BE INSTALLED AT LOW POINTS, DAYLIGHT TO DITCH.

EXCAVATION BELOW SUBGRADE (EBS) - RURAL



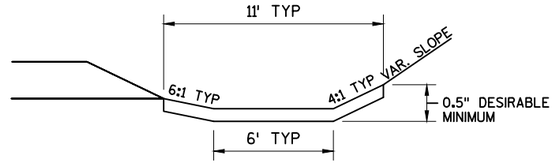
NOTES:
1. USE AS DIRECTED BY ENGINEER FOR AREAS OF UNSTABLE SUBGRADE.
2. EBS SHALL BE PAID FOR AS EXCAVATION COMMON. UNDISTRIBUTED AMOUNT LISTED IN EARTHWORK SUMMARY.
3. FILL VOID WITH BREAKER RUN.

EXCAVATION BELOW SUBGRADE (EBS) - URBAN



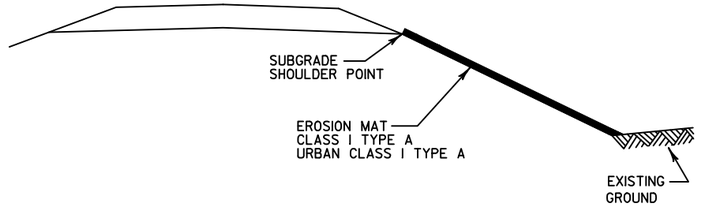
DETAIL FOR RIPRAP IN DITCHES

SEE EROSION CONTROL
PLAN FOR LOCATIONS



EROSION MAT DETAIL FOR DITCHES

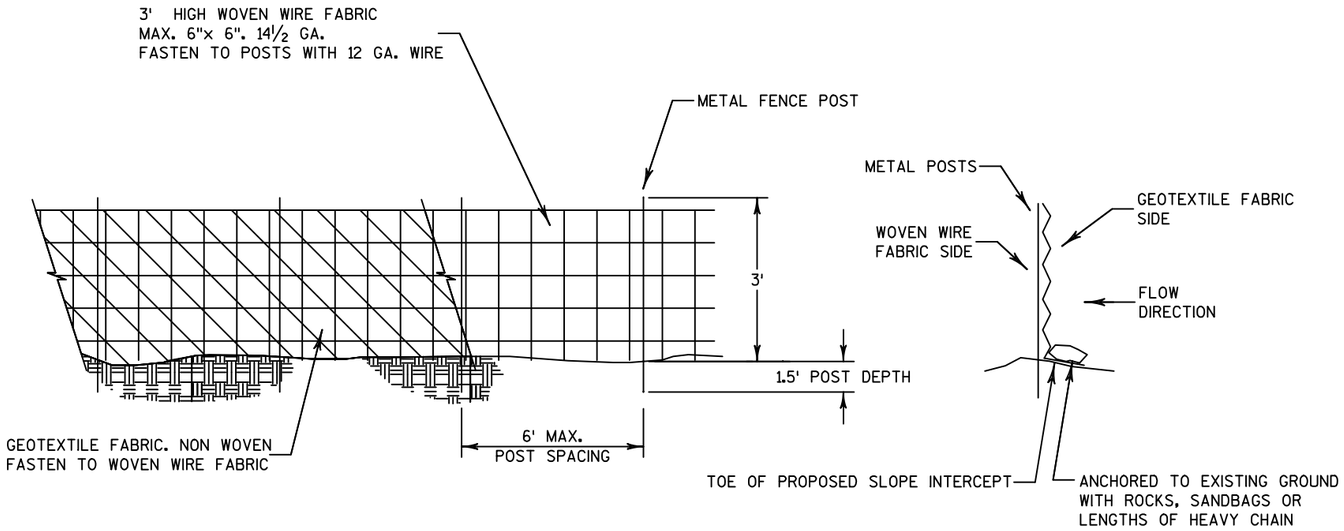
SEE EROSION CONTROL
PLAN FOR LOCATIONS



EROSION MAT DETAIL FOR SLOPES

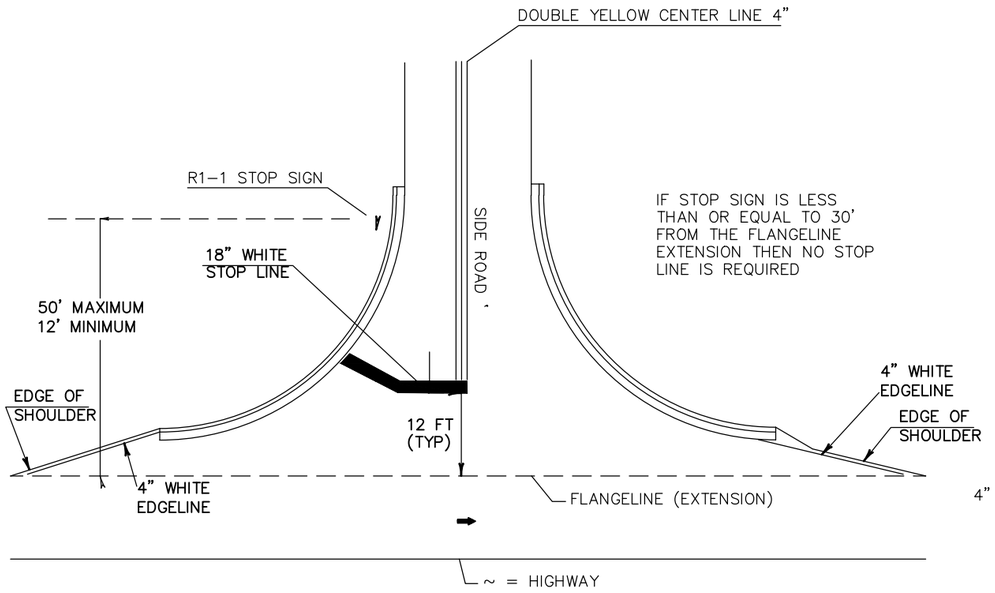
SEE EROSION CONTROL
PLAN FOR LOCATIONS

2

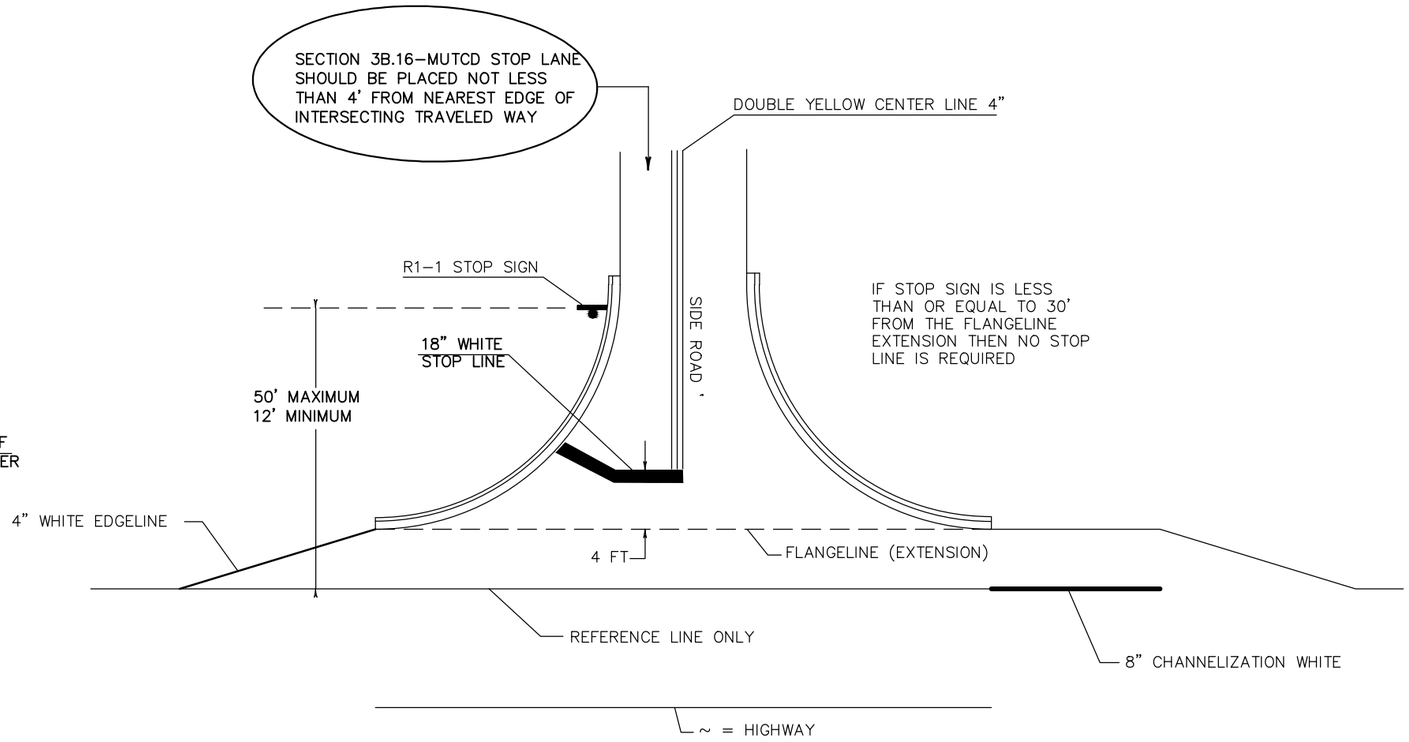


HEAVY DUTY SILT FENCE DETAIL

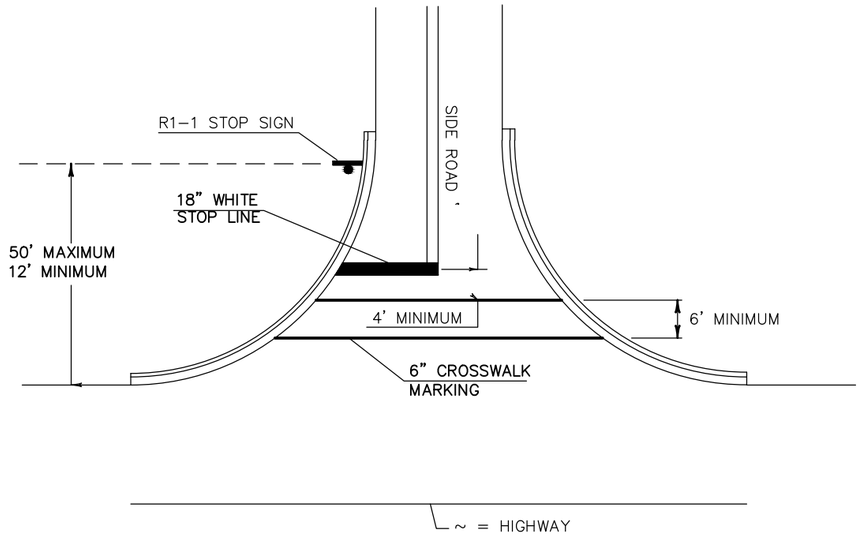
INSTALL AS NECESSARY AS SHOWN IN THE PLANS
AND DIRECTED BY THE ENGINEER



TYPICAL PAVEMENT MARKING FOR SIDEROADS



TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE

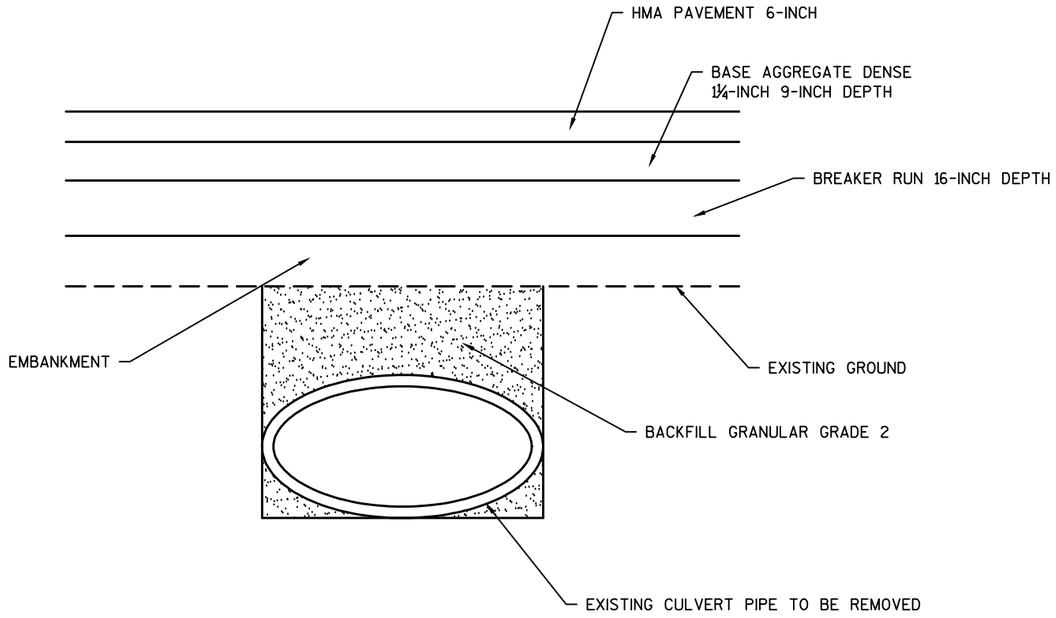


TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

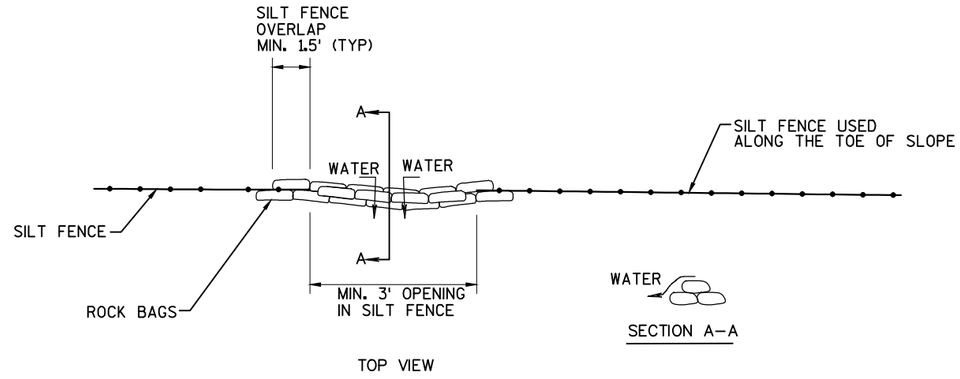
NOTES:
18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

STOP LINES REQUIRED WHERE:

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



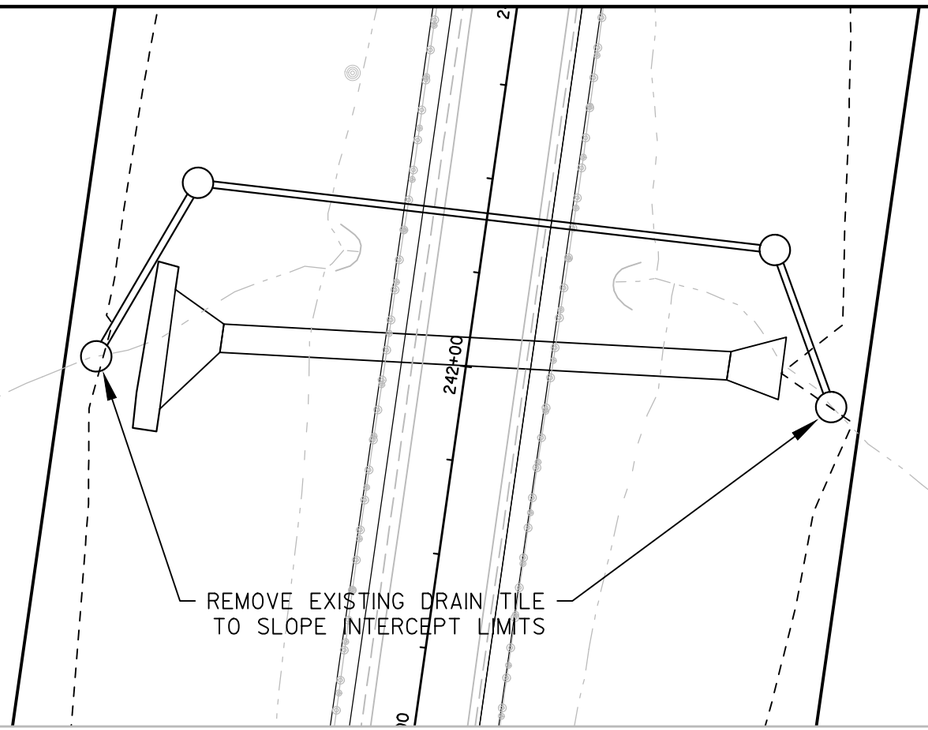
REMOVAL OF PIPES

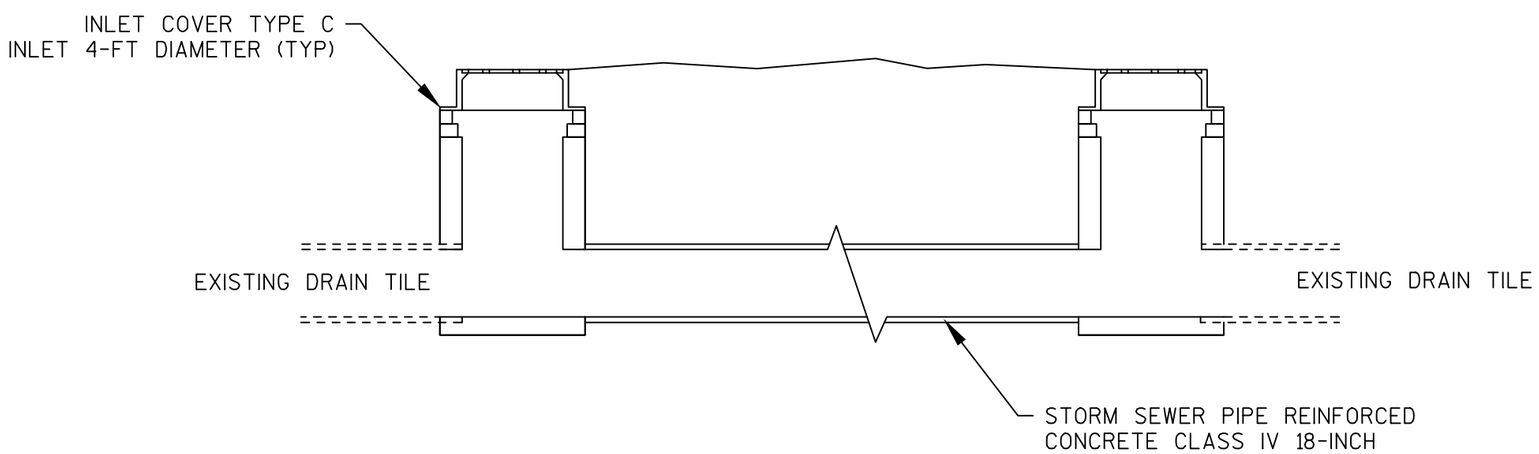


ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

SEE EROSION CONTROL PLANS FOR LOCATIONS

NOTE:
STATION, OFFSET, ELEVATION, AND INVERTS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.



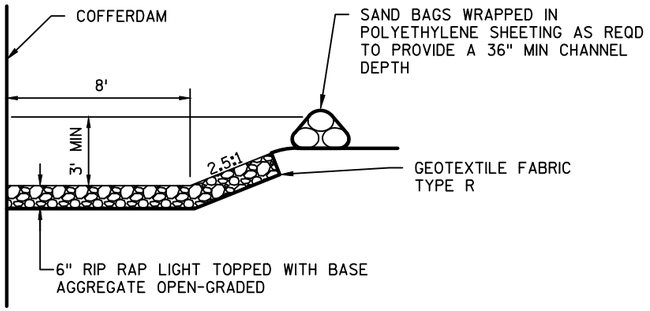


DRAIN TILE CROSSING
STA 242+00

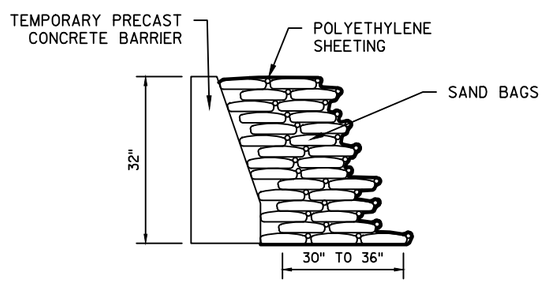
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACAINE	CONSTRUCTION DETAIL	SHEET 31 E

LEGEND

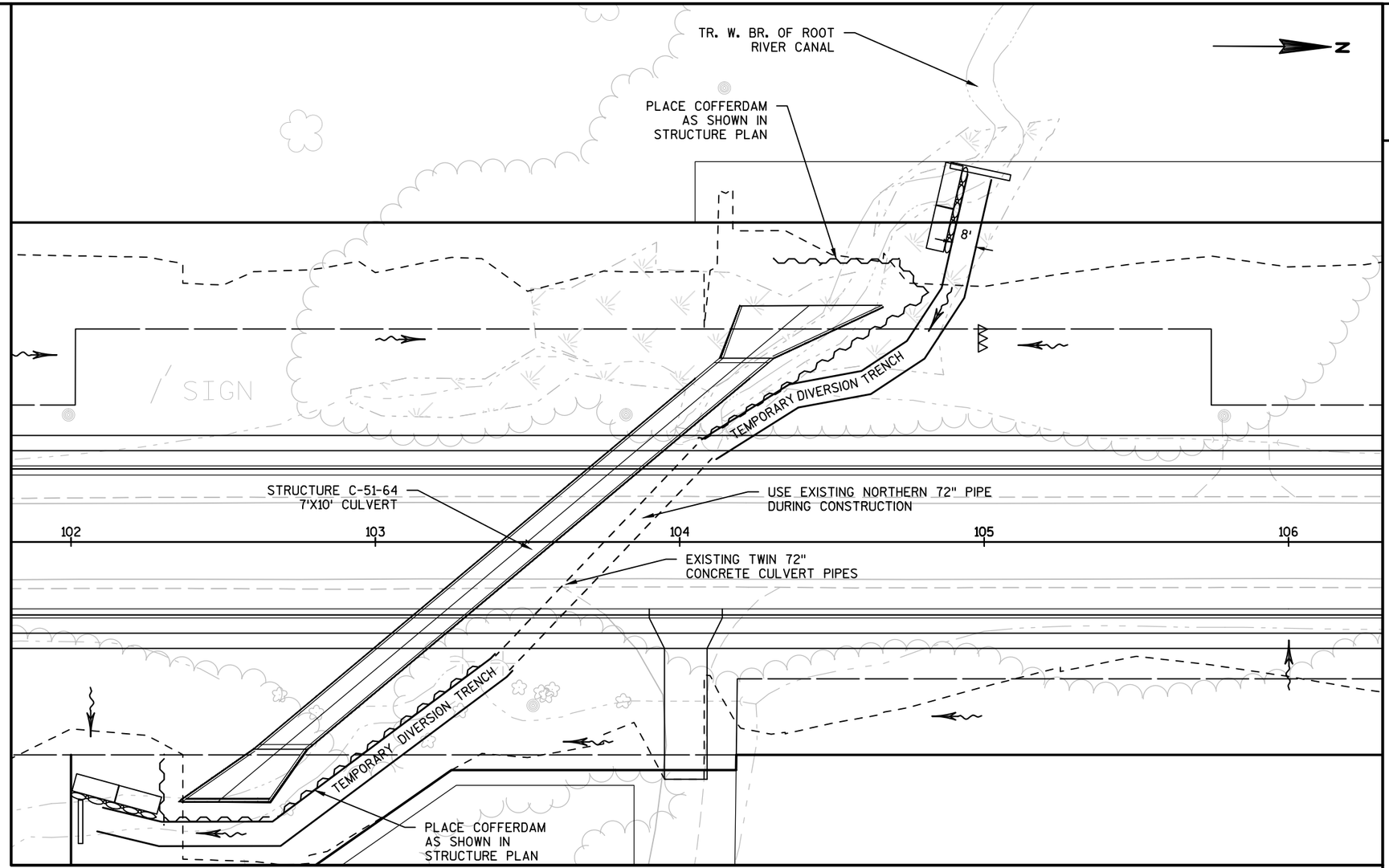
- WETLAND
- SLOPE INTERCEPT
- COFFER DAM
- METAL PLATE
- TEMPORARY DITCH CHECK
- SILT FENCE
- EROSION BALE, BARRIER
- TEMPORARY PRECAST CONCRETE BARRIER WITH SAND BAGS
- STREAMBED TO BE CONSTRUCTED, VEGETATED, AND ESTABLISHED PRIOR TO OPENING



TEMPORARY DIVERSION TRENCH TYPICAL



TEMPORARY PRECAST CONCRETE BARRIER/SAND BAG DETAIL



ANY WORK WITH CONSTRUCTION OF TEMPORARY DIVERSION TRENCHES NEEDS TO BE SCHEDULED DURING A PERIOD WITH LESS THAN 40% CHANCE OF RAIN FOR THE TWO DAY FORECAST.

PUMPING NOT TO EXCEED 48 HOURS.

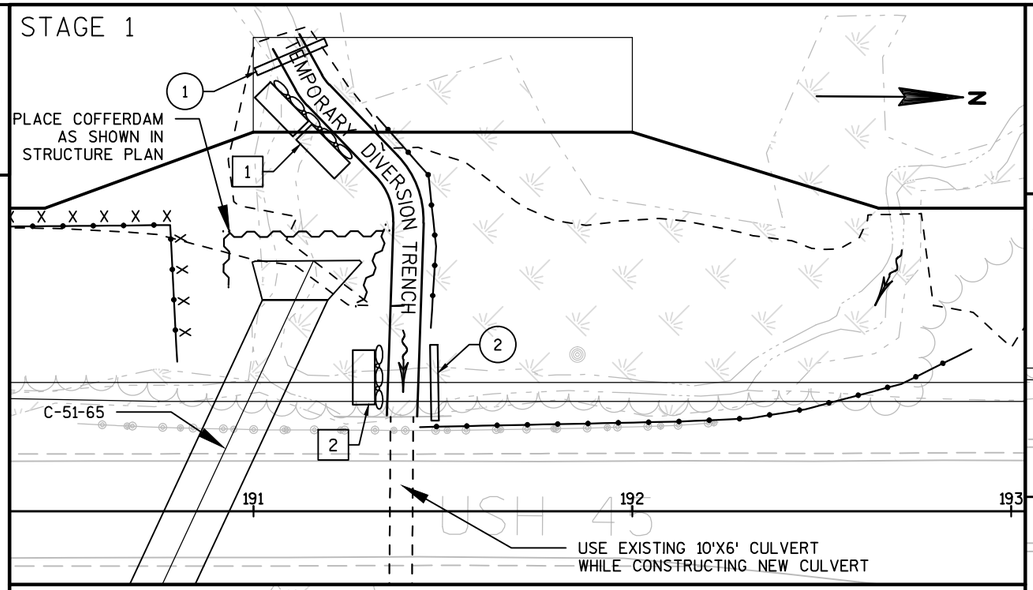
REFER TO MAINTAINING DRAINAGE SPECIAL PROVISIONS.

C-51-64

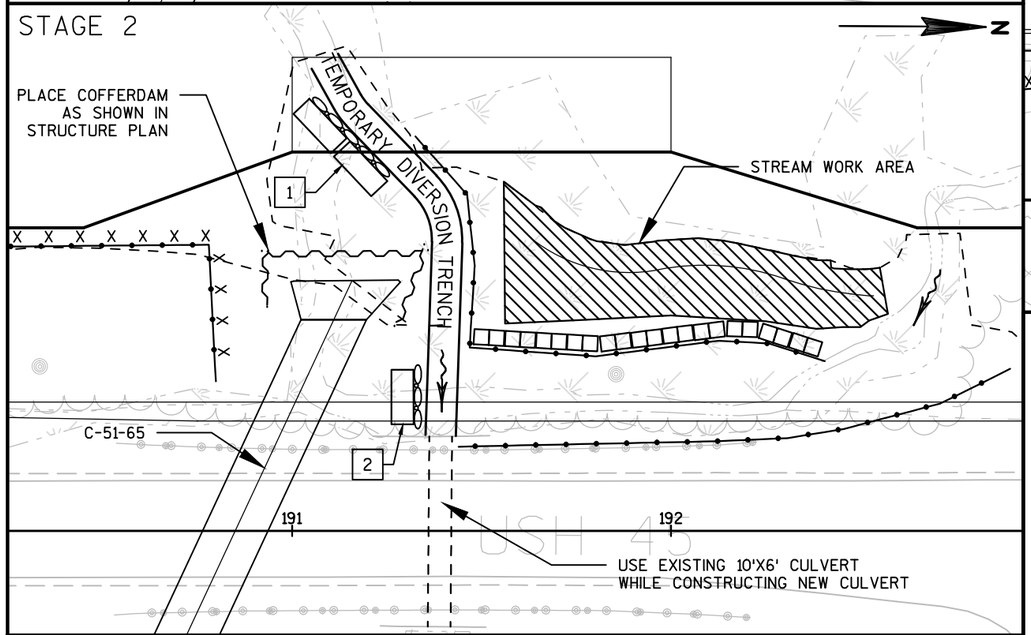
1. EXCAVATE MAJORITY OF THE TEMPORARY DIVERSION TRENCHES (TDTS), LEAVING 5-10' OF EMBANKMENT BETWEEN EXCAVATION AND THE EXISTING WATERWAY ON BOTH ENDS (TO PREVENT FLOW INTO THE EXCAVATION).
2. PLACE FABRIC AND STONE ALONG THE BOTTOM OF TDTS AND ALONG THE SIDES TO A VERTICAL HEIGHT OF 3' (EXCEPT WHERE COFFERDAM PROVIDES A SUFFICIENT SIDE FOR THE TRENCH).
3. SET UP BYPASS PUMP AND PLACE PLATES UPSTREAM OF WESTERN TDT AND DOWNSTREAM OF EASTERN TDT.
4. EXCAVATE BETWEEN THE EXISTING WATERWAY AND THE UPSTREAM AND DOWNSTREAM ENDS OF TDTS AND BETWEEN THE TDTS AND EXISTING NORTHERN 72" CULVERT PIPE; PLACE FABRIC AND STONE ALONG THE NEWLY EXCAVATED TDT (EXCEPT WHERE COFFERDAM PROVIDES A SUFFICIENT SIDE FOR THE TRENCH).
5. PLACE PRECAST CONCRETE BARRIER IN UPSTREAM END OF EXISTING WATERWAY TO DIVERT WATER FLOW FROM EXISTING WATERWAY INTO TDT.
5. PLACE PRECAST CONCRETE BARRIER IN DOWNSTREAM END OF EXISTING WATERWAY TO PREVENT BACK FLOW OF WATER INTO EXISTING WATERWAY.
6. PLACE COFFERDAMS AS SHOWN IN CULVERT STRUCTURE PLAN TO PREVENT FLOW OF WATER INTO EXISTING WATERWAY.
7. REMOVE PLATES AND PUMP.
8. PUMP REMAINING WATER OUT OF NOW-BYPASSED WATERWAY TO PREPARE FOR CONSTRUCTION OF NEW STRUCTURE.

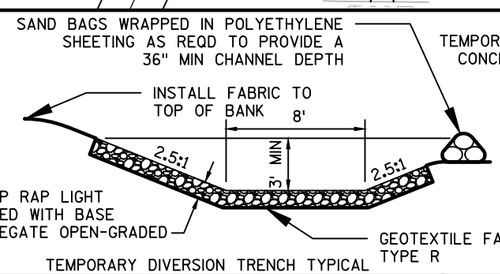
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CONSTRUCTION DETAIL -- C-51-64	SHEET 32	E

STAGE 1

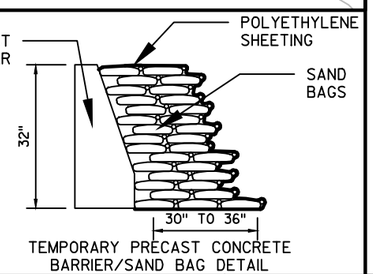


STAGE 2



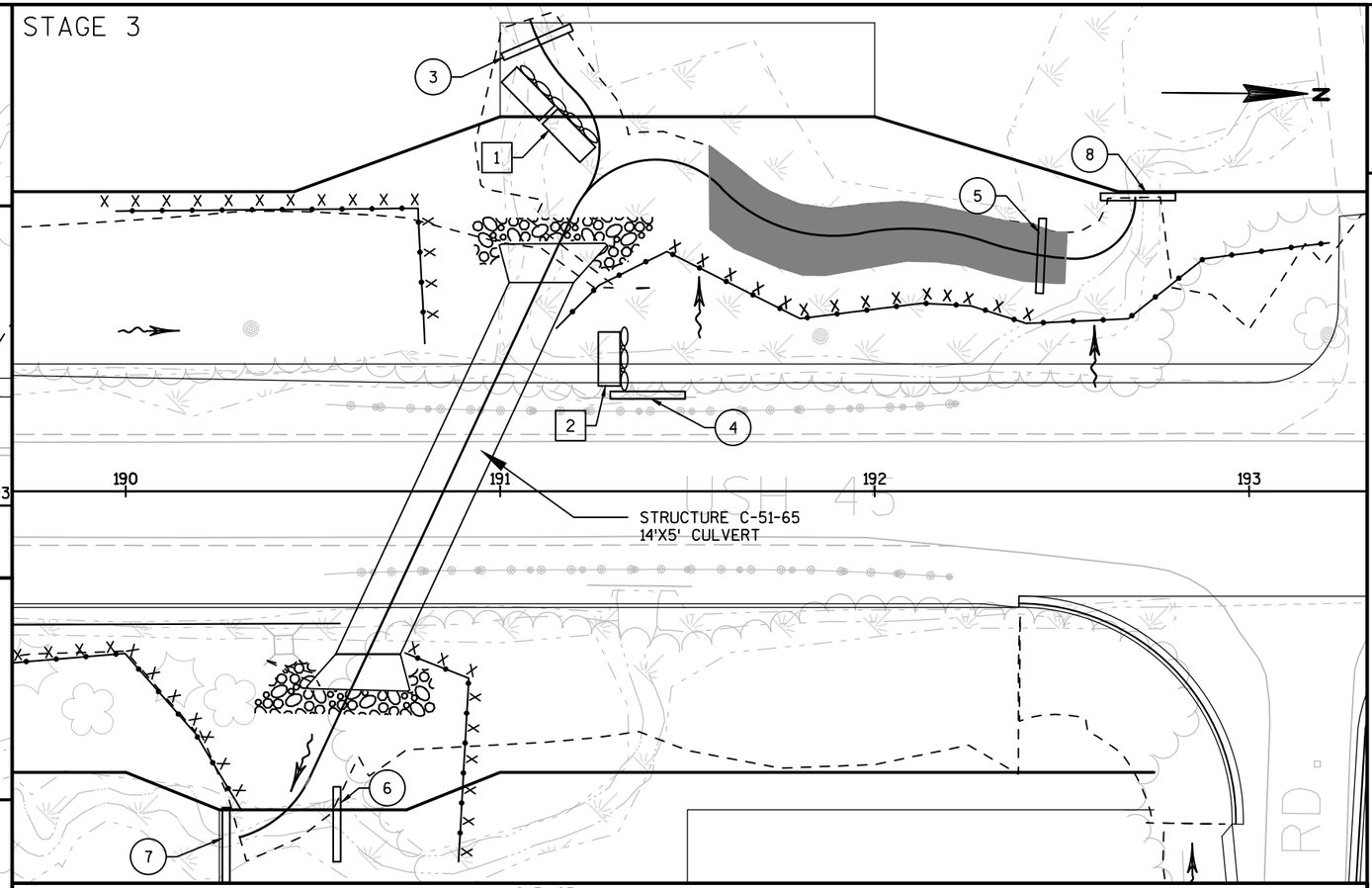


TEMPORARY DIVERSION TRENCH TYPICAL



TEMPORARY PRECAST CONCRETE BARRIER/SAND BAG DETAIL

STAGE 3



LEGEND

- WETLAND
- SLOPE INTERCEPT
- COFFER DAM
- METAL PLATE
- TEMPORARY DITCH CHECK
- SILT FENCE
- HEAVY DUTY SILT FENCE
- EROSION BALE, BARRIER
- TEMPORARY PRECAST CONCRETE BARRIER WITH SAND BAGS
- STREAMBED TO BE CONSTRUCTED, VEGETATED, AND ESTABLISHED PRIOR TO OPENING

ANY WORK WITH CONSTRUCTION OF TEMPORARY DIVERSION TRENCHES NEEDS TO BE SCHEDULED DURING A PERIOD WITH LESS THAN 40% CHANCE OF RAIN FOR THE TWO DAY FORECAST.

PUMPING NOT TO EXCEED 48 HOURS.

REFER TO MAINTAINING DRAINAGE SPECIAL PROVISIONS.

C-51-65

STAGE 1
1. EXCAVATE MAJORITY OF THE TEMPORARY DIVERSION TRENCH (TDT), LEAVING 5-10' OF EMBANKMENT BETWEEN EXCAVATION AND THE EXISTING WATERWAY ON BOTH ENDS (TO PREVENT FLOW INTO THE EXCAVATION).
2. PLACE FABRIC AND STONE ALONG THE BOTTOM OF TDT AND ALONG THE SIDES TO A VERTICAL HEIGHT OF 3'.
3. SET UP BYPASS PUMPS, PLACE PLATES UPSTREAM OF TDT (PLATE 1) AND UPSTREAM OF EXISTING CULVERT ON NORTH LEG (PLATE 2), PLACE SANDBAGS IN MOUTH OF EXISTING CULVERT.
4. EXCAVATE BETWEEN THE EXISTING WATERWAY AND THE UPSTREAM AND DOWNSTREAM ENDS OF TDT; PLACE FABRIC AND STONE ALONG THE NEWLY EXCAVATED TDT.
5. PLACE PRECAST BARRIERS AT UPSTREAM (1) AND DOWNSTREAM (2) ENDS OF EXISTING WATERWAY TO DIVERT WATER FLOW FROM EXISTING WATERWAY INTO TDT; PLACE COFFERDAM.
6. REMOVE PLATES (1) AND (2) AND PUMP. (SEE STAGE 1 VIEW)

STAGE 2
7. EXCAVATE MAJORITY OF PROPOSED STREAM, LEAVING 5-10' OF EMBANKMENT BETWEEN EXCAVATION AND EXISTING WATERWAY ON THE NORTH END AND THE TDT ON THE SOUTH END (TO PREVENT FLOW INTO THE EXCAVATION).
8. GRADE TO FINAL GROUND 4' BEYOND BANK OF PROPOSED STREAM TO ACCOMMODATE SILT FENCE AND BALES.
9. LINE PROPOSED STREAM WITH APPROPRIATE LINING. (SEE STAGE 2 VIEW)

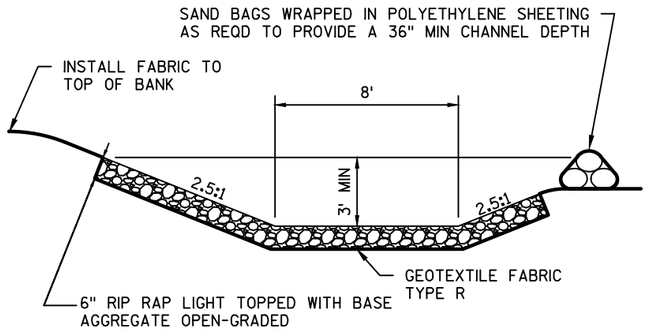
(AFTER PROPOSED CULVERT IS COMPLETED)

STAGE 3
10. SET UP BYPASS PUMP AND PLACE PLATES UPSTREAM (3) AND DOWNSTREAM (4) OF TDT.
11. REMOVE BARRIER (1).
12. EXCAVATE WEST OF CULVERT BETWEEN CULVERT AND BOTH PROPOSED STREAMS.
13. PLACE RIP-RAP WEST OF CULVERT.
14. PLACE PLATE (5) AT NORTH END OF PROPOSED STREAM.
15. PLACE PLATES (6, 7) AND PUMP DOWNSTREAM OF EXISTING CULVERT.
16. EXCAVATE REMAINING STREAM EAST OF PROPOSED CULVERT.
17. REMOVE PLATE (7), REMOVE PLATE (1) AND ASSOCIATED PUMP.
18. SET UP BYPASS PUMP AND PLACE PLATE (7) UPSTREAM OF PROPOSED STREAM.
19. EXCAVATE REMAINING PROPOSED STREAM, AND LINE WITH APPROPRIATE LINING.
20. REMOVE BARRIER (2), PLATES (4, 5, 6, and 7) AND PUMPS. (SEE STAGE 3 VIEW)

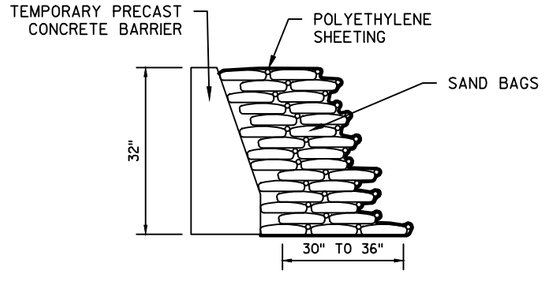
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CONSTRUCTION DETAIL -- C-51-65	SHEET 33	E

LEGEND

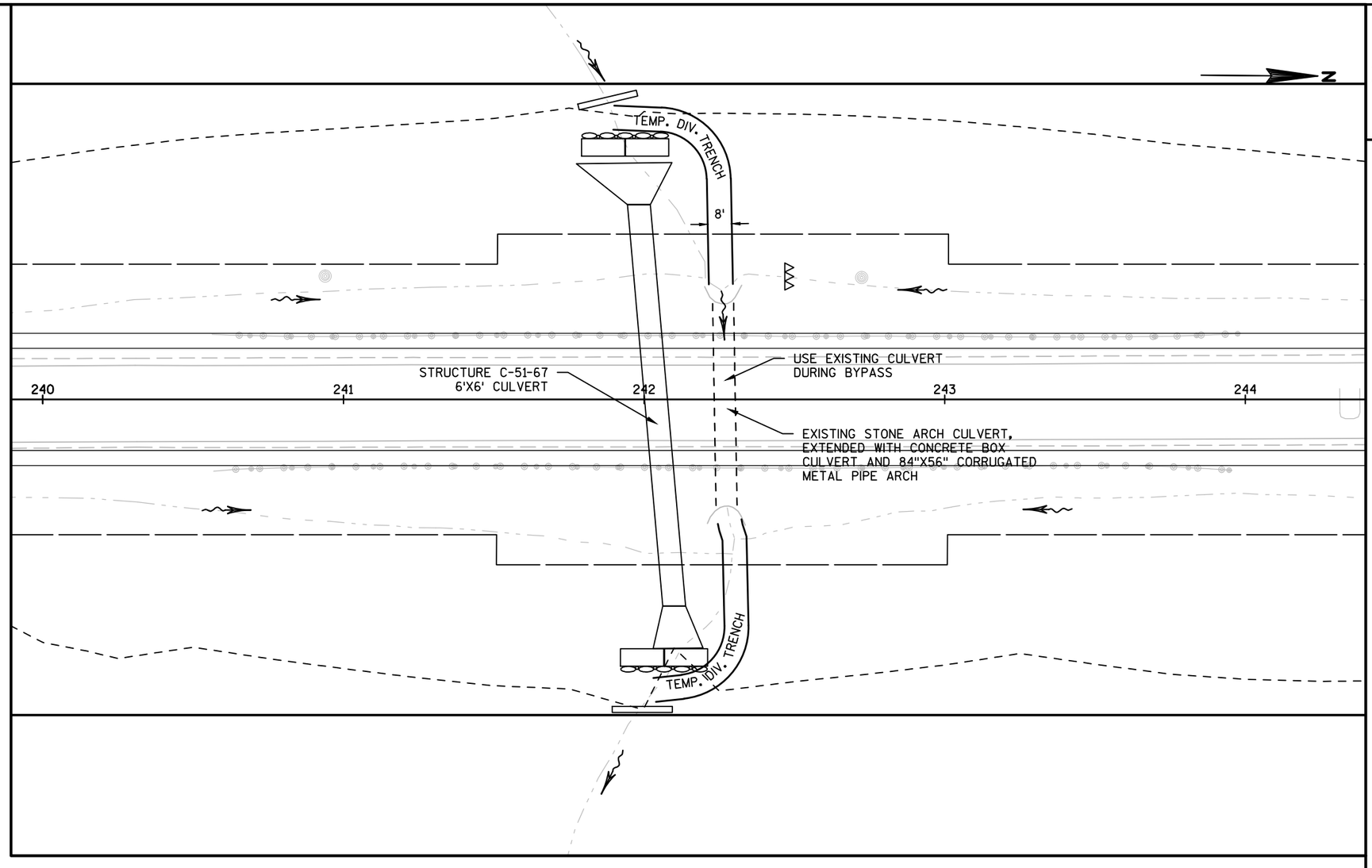
- WETLAND
- SLOPE INTERCEPT
- COFFER DAM
- METAL PLATE
- TEMPORARY DITCH CHECK
- SILT FENCE
- EROSION BALE, BARRIER
- TEMPORARY PRECAST CONCRETE BARRIER WITH SAND BAGS
- STREAMBED TO BE CONSTRUCTED, VEGETATED, AND ESTABLISHED PRIOR TO OPENING



TEMPORARY DIVERSION TRENCH TYPICAL



TEMPORARY PRECAST CONCRETE BARRIER/SAND BAG DETAIL



ANY WORK WITH CONSTRUCTION OF TEMPORARY DIVERSION TRENCHES NEEDS TO BE SCHEDULED DURING A PERIOD WITH LESS THAN 40% CHANCE OF RAIN FOR THE TWO DAY FORECAST.

PUMPING NOT TO EXCEED 48 HOURS.

REFER TO MAINTAINING DRAINAGE SPECIAL PROVISIONS.

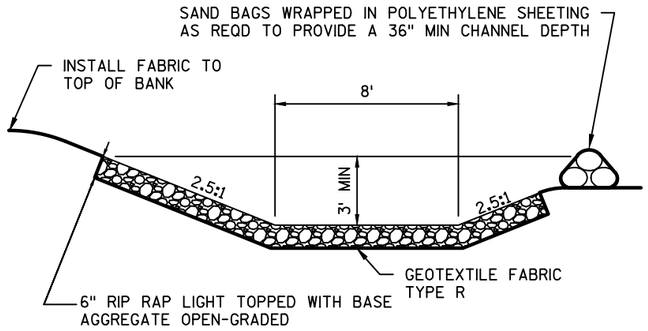
C-51-67

1. EXCAVATE MAJORITY OF THE TEMPORARY DIVERSION TRENCHES (TDTS), LEAVING 5-10' OF EMBANKMENT BETWEEN EXCAVATION AND THE EXISTING WATERWAY ON BOTH ENDS (TO PREVENT FLOW INTO THE EXCAVATION).
2. PLACE FABRIC AND STONE ALONG THE BOTTOM OF TDTS AND ALONG THE SIDES TO A VERTICAL HEIGHT OF 3'.
3. SET UP BYPASS PUMP AND PLACE PLATES UPSTREAM OF WESTERN TDT AND DOWNSTREAM OF EASTERN TDT.
4. EXCAVATE BETWEEN THE EXISTING WATERWAY AND THE UPSTREAM AND DOWNSTREAM ENDS OF TDTS AND BETWEEN THE TDTS AND EXISTING MASONRY ARCH CULVERT; PLACE FABRIC AND STONE ALONG THE NEWLY EXCAVATED TDT.
5. PLACE PRECAST CONCRETE BARRIER IN UPSTREAM END OF EXISTING WATERWAY TO DIVERT WATER FLOW FROM EXISTING WATERWAY INTO TDT.
6. PLACE PRECAST CONCRETE BARRIER IN DOWNSTREAM END OF EXISTING WATERWAY TO PREVENT BACKFLOW OF WATER INTO EXISTING WATERWAY.
7. REMOVE PLATES AND PUMP.
8. PUMP REMAINING WATER OUT OF NOW-BYPASSED WATERWAY TO PREPARE FOR CONSTRUCTION OF NEW STRUCTURE.

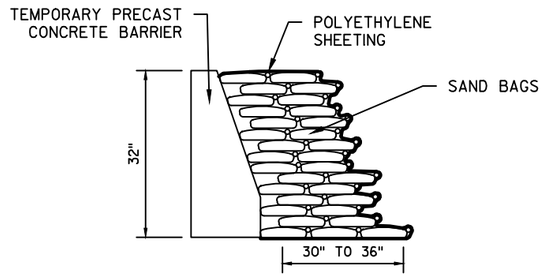
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CONSTRUCTION DETAIL -- C-51-67	SHEET 34	E

LEGEND

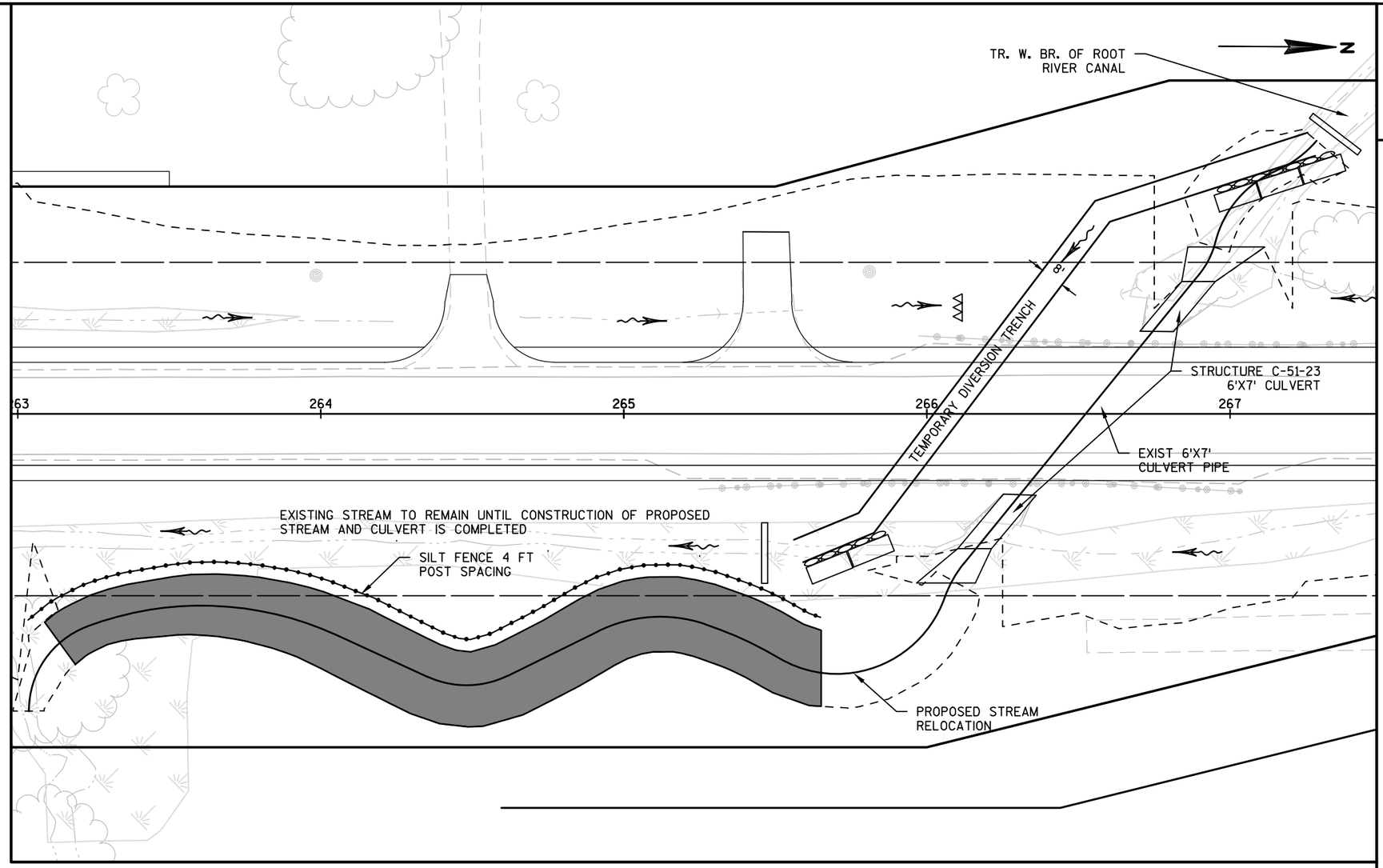
- WETLAND
- SLOPE INTERCEPT
- COFFER DAM
- METAL PLATE
- TEMPORARY DITCH CHECK
- SILT FENCE 4 FT POST SPACING
- EROSION BALE, BARRIER
- TEMPORARY PRECAST CONCRETE BARRIER WITH SAND BAGS
- STREAMBED TO BE CONSTRUCTED, VEGETATED, AND ESTABLISHED PRIOR TO OPENING



TEMPORARY DIVERSION TRENCH TYPICAL



TEMPORARY PRECAST CONCRETE BARRIER/SAND BAG DETAIL



ANY WORK WITH CONSTRUCTION OF TEMPORARY DIVERSION TRENCHES NEEDS TO BE SCHEDULED DURING A PERIOD WITH LESS THAN 40% CHANCE OF RAIN FOR THE TWO DAY FORECAST.

PUMPING NOT TO EXCEED 48 HOURS.

REFER TO MAINTAINING DRAINAGE SPECIAL PROVISIONS.

C-51-23

1. EXCAVATE MAJORITY OF THE TEMPORARY DIVERSION TRENCH (TDT), LEAVING 5-10' OF EMBANKMENT BETWEEN EXCAVATION AND THE EXISTING WATERWAY ON BOTH ENDS (TO PREVENT FLOW INTO THE EXCAVATION).
2. PLACE FABRIC AND STONE ALONG THE BOTTOM OF TDT AND ALONG THE SIDES TO A VERTICAL HEIGHT OF 3'.
3. SET UP BYPASS PUMP AND PLACE PLATES UPSTREAM AND DOWNSTREAM OF TDT.
4. EXCAVATE BETWEEN THE EXISTING WATERWAY AND THE UPSTREAM AND DOWNSTREAM ENDS OF TDT; PLACE FABRIC AND STONE ALONG THE NEWLY EXCAVATED TDT.
5. PLACE PRECAST CONCRETE BARRIERS IN UPSTREAM AND DOWNSTREAM ENDS OF EXISTING WATERWAY TO DIVERT WATER FLOW FROM EXISTING WATERWAY INTO TDT.
6. PLACE PRECAST CONCRETE BARRIER IN DOWNSTREAM END OF EXISTING WATERWAY TO PREVENT BACKFLOW OF WATER INTO EXISTING WATERWAY.
7. REMOVE PLATES AND PUMP.
8. PUMP REMAINING WATER OUT OF NOW-BYPASSED WATERWAY TO PREPARE FOR CONSTRUCTION OF NEW STRUCTURE.
9. EXCAVATE MAJORITY OF PROPOSED STREAM EAST OF CULVERT, LEAVING 5-10' OF EMBANKMENT BETWEEN EXCAVATION AND THE EXISTING WATERWAY DOWNSTREAM OF PROPOSED STREAM.
10. LINE PROPOSED STREAM WITH APPROPRIATE LINING.

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CONSTRUCTION DETAIL -- C-51-23	SHEET 35	E

LEGEND

.XXXX. SAWCUT

X CLEARING AND GRUBBING

N

UNNAMED TRIBUTARY TO THE WEST BRANCH OF THE ROOT RIVER CANAL

BEGIN REMOVAL OF CURB AND GUTTER

END REMOVAL OF CURB AND GUTTER

SI

REMOVE SMALL PIPE CULVERT

REMOVE SMALL PIPE CULVERT

REMOVE SMALL PIPE CULVERT

REMOVE SMALL PIPE CULVERT

DO NOT REMOVE THESE TREES

SI

REMOVE SMALL PIPE CULVERT

96 98 100 102 104 USH 45 106 108 110

USH 45

USH 45

ATHLETIC FIELD

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	REMOVAL PLAN	SHEET E

FILE NAME : N:\PDS\C3D\CAD\24300600\021101_RM.DWG
LAYOUT NAME - 021101_RM

PLOT DATE : 1/12/2017 5:29 PM PLOT BY : KRMPOTICH, JACOB L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

LEGEND

.XXXX. SAWCUT

X CLEARING AND GRUBBING

N

REMOVE SMALL PIPE CULVERT

SI

PI 117+41.54

XXXX

REMOVE SMALL PIPE CULVERT

REMOVE SMALL PIPE CULVERT

SIGN

ANT.

112 114 USH 45 116 BP 50+00.00 118 USH 45 120 122 124 USH 45 126

BEGIN REMOVAL OF CURB AND GUTTER

SI

REMOVE SMALL 24" PIPE CULVERT

END REMOVAL OF CURB AND GUTTER

REMOVE SMALL 15" PIPE CULVERT

REMOVE SMALL 24" PIPE CULVERT

SI

58TH RD.

52

54

SI

SI

END REMOVAL OF CURB AND GUTTER

BEGIN REMOVAL OF CURB AND GUTTER

POOL

W

SIGN

ANT.

XXXX

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	REMOVAL PLAN	SHEET 37	E

2

LEGEND

.XXXX. SAWCUT

X CLEARING AND GRUBBING

N

REMOVED TREE TRUNKS SHALL BE SAVED FOR PROPERTY OWNER. SEE SPECIAL PROVISIONS.

SI

END REMOVAL OF CURB AND GUTTER

REMOVAL OF CURB AND GUTTER

BEGIN REMOVAL OF CURB AND GUTTER

BEGIN REMOVAL OF CURB AND GUTTER

END REMOVAL OF CURB AND GUTTER

REMOVE SMALL 24" PIPE CULVERT

END REMOVAL OF CURB AND GUTTER

BEGIN REMOVAL OF CURB AND GUTTER

REMOVAL OF CURB AND GUTTER

REMOVE SMALL PIPE CULVERT

BEGIN REMOVAL OF CURB AND GUTTER

END REMOVAL OF CURB AND GUTTER

USH 45

CTH C

126 128 130 132 134 136 138 140

44 46 48 52

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	REMOVAL PLAN	SHEET 38	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021101_RM.DWG
LAYOUT NAME - 021103_RM

PLOT DATE : 1/12/2017 5:29 PM PLOT BY : KRMPOTICH, JACOB L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

XXXX. SAWCUT

X CLEARING AND GRUBBING

N

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	REMOVAL PLAN - CTH C	SHEET 39	E

2

LEGEND

.XXXX. SAWCUT

X CLEARING AND GRUBBING

N

REMOVE SMALL PIPE CULVERT

REMOVE SMALL PIPE CULVERT

REMOVE SMALL PIPE CULVERT

REMOVE SMALL PIPE CULVERT

SI

SI

PI 143+80.17

142 144 146 148 150 152 154 156

USH 45

USH 45

USH 45

REMOVE SMALL PIPE CULVERT

REMOVE SMALL PIPE CULVERT

REMOVED TREE TRUNKS SHALL BE SAVED FOR PROPERTY OWNER. SEE SPECIAL PROVISIONS.

SIGN

SIGN

SEPTIC

SEPTIC

FOOTBRIDGE

2

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	REMOVAL PLAN	SHEET 40	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021101_RM.DWG
LAYOUT NAME - 021104_RM

PLOT DATE : 1/12/2017 5:29 PM PLOT BY : KRMPOTICH, JACOB L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

.XXXX. SAWCUT

X CLEARING AND GRUBBING

N

ANT.

ANT.

SEPTIC

W

REMOVE SMALL PIPE CULVERT

DO NOT REMOVE TREE

REMOVE SMALL PIPE CULVERT

SI

REMOVE SMALL 30" PIPE CULVERT

END REMOVAL OF CURB AND GUTTER

BEGIN REMOVAL OF CURB AND GUTTER

SI

SI

BEGIN REMOVAL OF CURB AND GUTTER

46

48

CHURCH RD

PI: 170+24.22

156 158 160 USH 45 162 USH 45 164 166 168 170

EP: 50+00.0

END REMOVAL OF CURB AND GUTTER

X X X

2

LEGEND

.XXXX. SAWCUT

X CLEARING AND GRUBBING

N

2

SEPTIC

SEPTIC

SEPTIC

FEEDER

REMOVE SMALL PIPE CULVERT

REMOVE SMALL PIPE CULVERT

SI

EP: 50+00.00

172

174

176

178 USH 45

180

USH 45

182

BP: 50+00.00

186

USH 45

END REMOVAL OF CURB AND GUTTER

SI

BEGIN REMOVAL OF CURB AND GUTTER

REMOVE SMALL 24" PIPE CULVERT

REMOVE SMALL 18" PIPE CULVERT

END REMOVAL OF CURB AND GUTTER

52ND. RD.

BEGIN REMOVAL OF CURB AND GUTTER

SEPTIC

XXXX

52

POST

ANT.

FOOTBRIDGE

SEPTIC

SEPTIC

54

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	REMOVAL PLAN	SHEET 42	E

2

LEGEND

.XXXX. SAWCUT

X CLEARING AND GRUBBING

N

2

UNNAMED TRIBUTARY TO THE WEST BRANCH OF THE ROOT RIVER CANAL

REMOVE SMALL PIPE CULVERT

SI

P: 196+66.90

REMOVE SMALL PIPE CULVERT

186 188 190 192 USH 45 BP: 56+00.00 196 198 200

USH 45 USH 45

SI

REMOVE GUARDRAIL

SI

REMOVE SMALL 18" PIPE CULVERT

SI

REMOVE SMALL PIPE CULVERT

SI

52 SAVAGE RD.

54

SAVAGE RD.

W

WALLS

ANT.

POOL

SEPTIC

BRIDGE

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	REMOVAL PLAN	SHEET 43	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021101_RM.DWG
LAYOUT NAME - 021107_RM

PLOT DATE : 1/12/2017 5:29 PM PLOT BY : KRMPOTICH, JACOB L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

.XXXX. SAWCUT

X CLEARING AND GRUBBING

N

SI

202 204 206 USH 45 208 210 212 214 216

USH 45

X X X

2

LEGEND

.XXXX. SAWCUT

X CLEARING AND GRUBBING

N

.XXXX.

46

48 CTH A

223+00.09

PI: 50+00.00

REMOVE SMALL
30" PIPE CULVERT

SI

REMOVAL OF
CURB AND GUTTER

END REMOVAL OF
CURB AND GUTTER

BEGIN REMOVAL OF
CURB AND GUTTER

SI

BEGIN REMOVAL OF
CURB AND GUTTER

REMOVE SMALL
24" PIPE CULVERT

END REMOVAL OF
CURB AND GUTTER

REMOVED TREE TRUNKS SHALL BE
SAVED FOR PROPERTY OWNERS.
SEE SPECIAL PROVISIONS.

SI

TANKS

SIGN

POOL

216 218 USH 45 220 222 224 226 228 230

USH 45

BEGIN REMOVAL OF
CURB AND GUTTER

END REMOVAL OF
CURB AND GUTTER

SI

SI

END REMOVAL OF
CURB AND GUTTER

REMOVAL OF
CURB AND GUTTER

BEGIN REMOVAL OF
CURB AND GUTTER

SI

SI

52

48 CTH A

.XXXX.

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	REMOVAL PLAN	SHEET 45	E

2

LEGEND

.XXXX. SAWCUT

X CLEARING AND GRUBBING

N

REMOVE GUARDRAIL

SI

232 234 236 USH 45 238 240 242 244 246

USH 45

USH 45

REMOVE SMALL
PIPE CULVERT

SI

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	REMOVAL PLAN	SHEET 46	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021101_RM.DWG
LAYOUT NAME - 021110_RM

PLOT DATE : 1/12/2017 5:29 PM PLOT BY : KRMPOTICH, JACOB L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

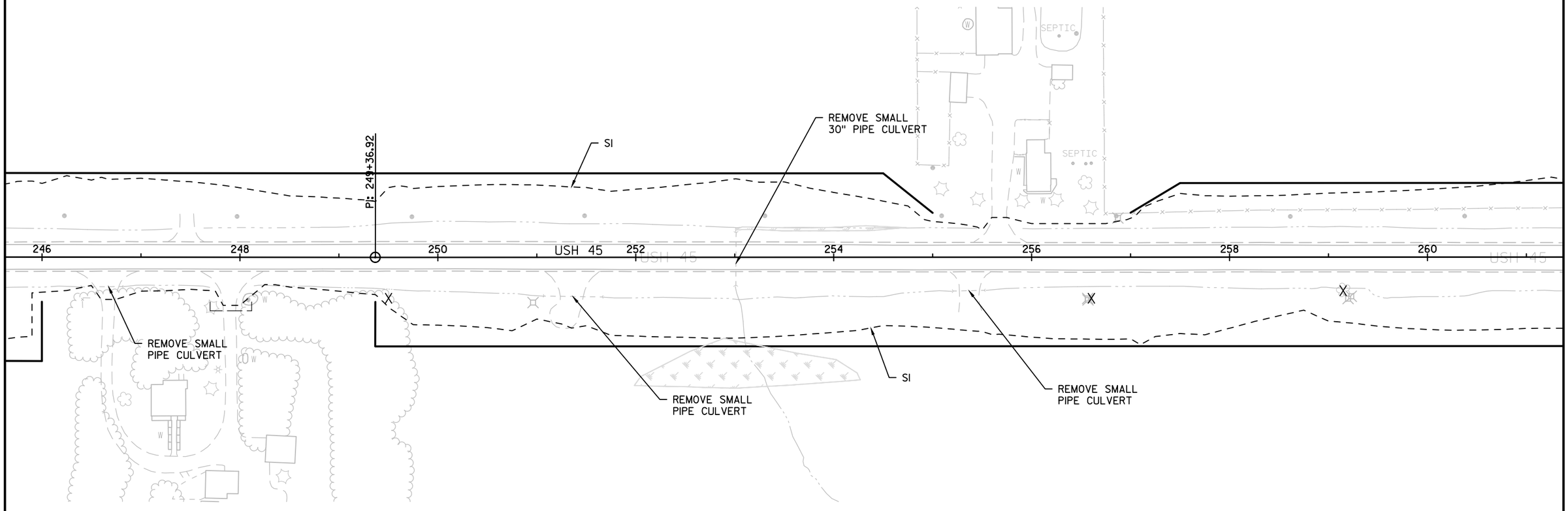
LEGEND

.XXXX. SAWCUT

X CLEARING AND GRUBBING

N

2



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	REMOVAL PLAN	SHEET 47	E

2

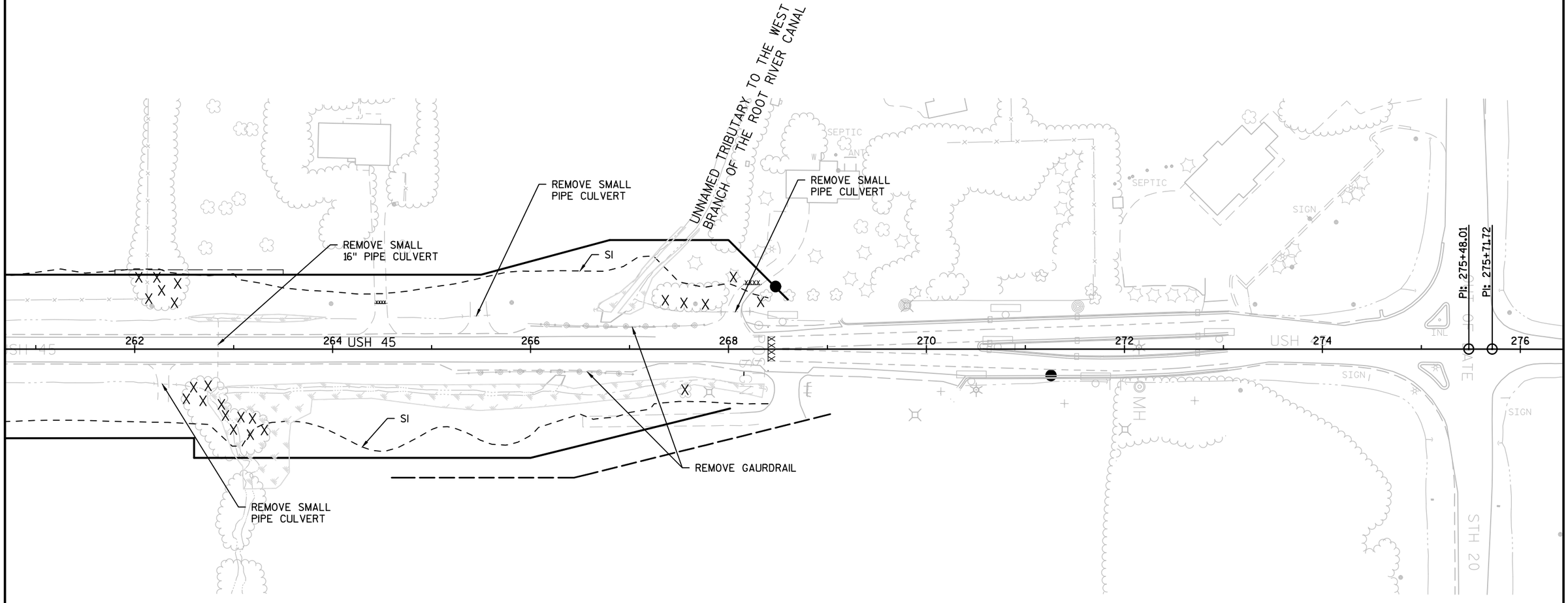
LEGEND

.XXXX. SAWCUT

X CLEARING AND GRUBBING

N

2



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	REMOVAL PLAN	SHEET 48	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021101_RM.DWG
LAYOUT NAME - 021112_RM

PLOT DATE : 1/12/2017 5:29 PM PLOT BY : KRMPOTICH, JACOB L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

+14.13, -42.65' LT
+84.12, -42.64' LT
+19.04, -22.00' LT
+79.04, -22.00' LT
+46.50, -22.00' LT
+81.50, -16.00' LT
DR02
CM03
CG02
DR01
BEGIN PROJECT
STA. 97+75
CG01
16'
22'
7+00
98+00
99+00
AP01
100+00
101+00
USH 45
102+00
103+00
+75.00, 22.00' RT
+11.92, 22.00' RT
+99.86, 22.00' RT
+35.52, 22.00' RT
+77.94, 32.00' RT
+08.78, 32.00' RT
+77.76, 35.07' RT
+08.60, 35.07' RT
+02.48, 41.86' RT
+32.15, 41.86' RT
+50.52, 30.00' RT
+45.52, 35.00' RT
C-51-64

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 49	E

2

N

UNNAMED TRIBUTARY TO THE WEST BRANCH OF THE ROOT RIVER CANAL

C-51-64

+44.86, -98.00' LT
+36.00, -98.00' LT

RETAINING WALL R-51-78

CM03
AG01
CG02
+29.99, -22.00' LT
DR01
+51.99, -22.00' LT
AP01

22'

USH 45

104+00 105+00 106+00 107+00 108+00 109+00

+14.00, 22.00' RT
+90.00, 22.00' RT
DR01
DR02
+95.00, 78.00' RT
+09.00, 78.00' RT

+62.75, 22.00' RT
+36.75, 22.00' RT
+57.88, 136.00' RT
+40.76, 136.00' RT

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
—x—x—	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 50	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021201_PD.DWG
LAYOUT NAME - 021202_PD
PLOT DATE : 1/12/2017 1:44 PM PLOT BY : ENGERSON, JONATHAN MPLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

CM03

+16.52, -22.00' LT

CG02

AP01

AP01

USH 45

110+00

111+00

112+00

113+00

114+00

115+00

USH 45

22'

22'

28'

AP01

AP01

AP01

+58.57, 22.00' RT

+57.73, 34.97' RT

CG02

+40.39, 28.00' RT

+40.28, 41.00' RT

CM03

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
—x—x—	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 51	E

2

N

SIGN

+71.06, -70.50' LT
+46.44, -70.50' LT
+95.85, -57.76' LT
+81.76, -57.85' LT
+41.57, -34.00' LT
CG02
CM07
CM03
CM02
DR02
R20'
+27.14, -34.00' LT
+91.68, -34.00' LT
+70.80, -24.09' LT
+60.33, -34.00' LT
AP01
PI: 117+41.45
+91.06, -34.00' LT
34'
STA. 117+41.45 USH 45 =
STA. 50+00.00 58TH RD.
24'
+14.62, -17.15' LT
5'
17'
116+00
117+00
BP: 50+00.00
118+00
119+00
120+00
121+00
USH 45

28'
+95.94, 28.00' RT
+96.04, 22.00' RT
CG02
R40'
+65.39, 28.00' RT
R60'
15'
+88.99, 15.00' RT
51+00
+19.00, 12.00' RT
+19.00, -12.00' LT
12'
58TH RD.

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 52	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021201_PD.DWG
LAYOUT NAME - 021204_PD
PLOT DATE : 1/11/2017 10:38 AM PLOT BY : HAYNES, RONNIE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

ANT.

Y

Y

REVERSE SLOPE CURB AND GUTTER

AG01

5'

17'

22'

+50.00, 0.00'

122+00

123+00

124+00

125+00

126+00

127+00

AP01

USH 45

+90.00, -12.07' LT

CG01

+07.70, -7.73' LT

CM01

NM01

+07.68, -2.73' LT

+63.16, 23.76' RT

+91.16, 23.99' RT

DR01

CG02

+07.49, 25.77' RT

+67.80, 81.05' RT

+85.80, 81.05' RT

POOL

W

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 53	E

2

N

REVERSE SLOPE CURB AND GUTTER

5'
17'
18'
26'
30'
14'
18'

AG01
AP01
CG01
NM01
CM01
PV03
DR02

+87.58, -18.97' LT
+05.02, -16.36' LT
+33.93, -27.36' LT
+29.50, 2.32' RT
+87.68, 3.25' RT
+35.55, 8.31' RT
+02.26, 13.31' RT
+92.64, 27.57' RT
+43.15, 38.92' RT
+91.11, 97.67' RT
+42.08, 106.96' RT

R75'
R50'
R50'
.09%

128+00
129+00
USH 45
130+00
131+00
132+00
133+00

SIGN
W

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
—x—x—	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 54	E

2

PLAN DETAILS LEGEND

- AP01 HMA PAVEMENT
- AG01 BASE AGGREGATE DENSE 3/4-INCH
- PV03 ASPHALTIC FLUME
- CG01 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG02 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CG03 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
- CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
- CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM02 CONCRETE CORRUGATE MEDIAN
- CM03 CONCRETE SIDEWALK 5-INCH

1-INCH CURB HEAD
STA. 136+32.4 TO STA. 136+60
TRANSITION IN 10'

CONCRETE CURB AND GUTTER 4-INCH SLOPED
30-INCH TYPE G BETWEEN CURB RAMPS

REVERSE SLOPE CURB AND GUTTER

MATCH LINE STA. 48+25

MATCH LINE STA. 52+00

STA. 136+98.40 USH 45 =
STA. 50+00.00 CTH C

STA. 136+94.10 USH =
STA. 50+00.00 CTH C

2-INCH CURB HEAD
STA. 136+49.6 26.5' LT TO STA. 137+00.81 12.36' LT
TRANSITION IN 10'

CONCRETE CURB AND GUTTER 4-INCH SLOPED
30-INCH TYPE G BETWEEN CURB RAMPS

CONCRETE CURB AND GUTTER 4-INCH SLOPED
30-INCH TYPE G BETWEEN CURB RAMPS

USH 45

CTH C

90TH RD.

CANOPY

FILLER CAPS

SIGN

PLAN DETAILS LEGEND

- DR01 CONCRETE DRIVEWAYS 6-INCH
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DR03 CONCRETE DRIVEWAYS HES 6-INCH
- CM04 CONCRETE PAVEMENT 8-INCH
- CM05 CONCRETE PAVEMENT 12-INCH
- CM06 RED COLORED CONCRETE PAVEMENT 12-INCH
- CM07 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CM08 RED COLORED CONCRETE TRUCK APRON
- NM01 SEEDING NO MOW FESCUE
- SAFETY FENCE
- UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 55	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021201_PD.DWG
LAYOUT NAME - 021207_PD

PLOT DATE : 1/11/2017 10:38 AM PLOT BY : HAYNES, RONNIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

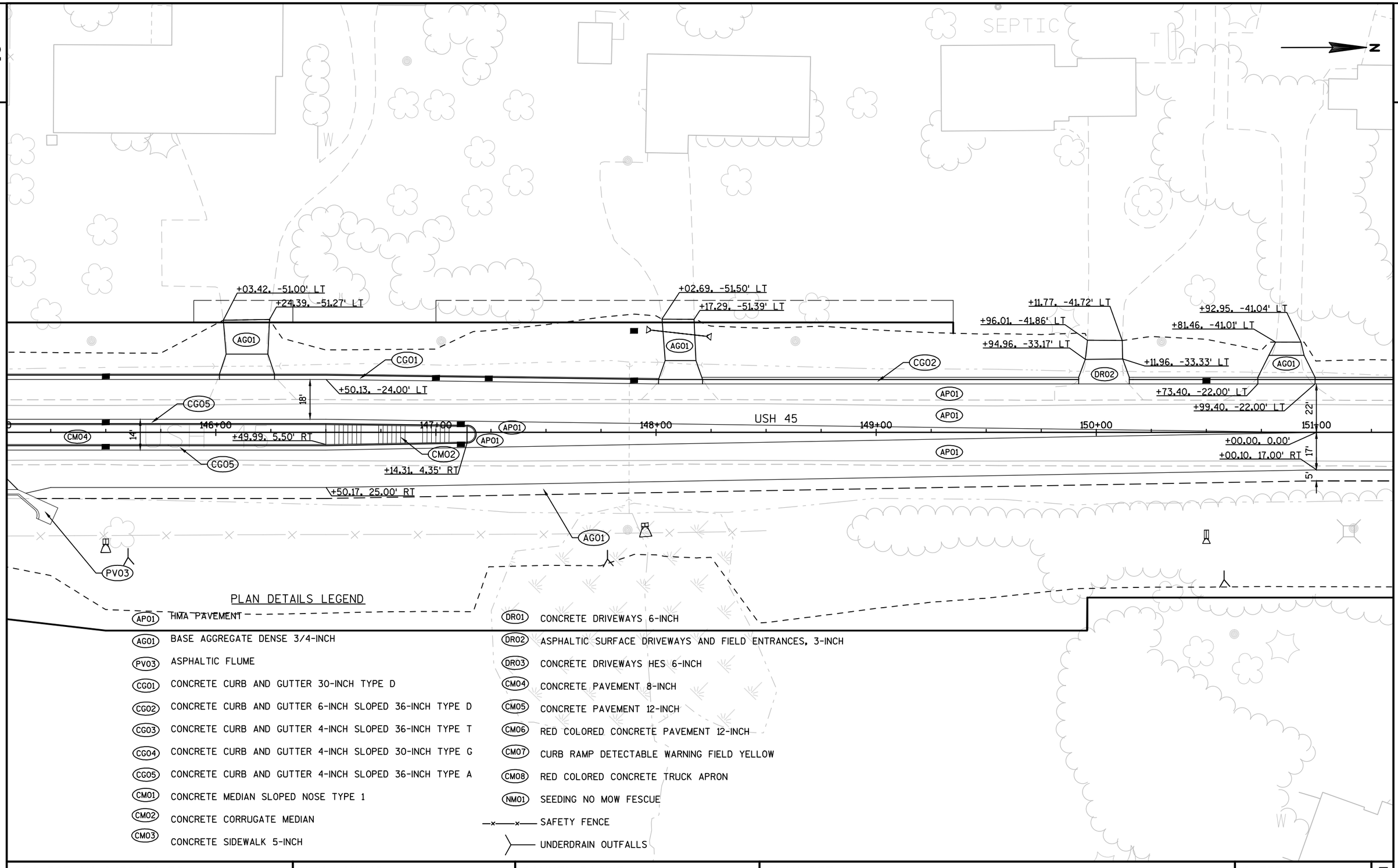
+23.09, -72.46' LT
+95.23, -73.95' LT
+19.10, -56.97' LT
+93.62, -56.13' LT
+70.96, -42.50' LT
+53.96, -42.50' LT
+18.45, -24.00' LT
+86.45, -24.00' LT
+22.81, -24.00' LT
+08.32, -24.00' LT
+90.81, -24.00' LT
+45.00, -4.00' LT
+08.31, -6.00' LT
BEGIN DRIVEWAY ENTRANCE CURB STYLE
BEGIN DRIVEWAY ENTRANCE CURB STYLE
+12.66, 8.00' RT
+45.00, 6.00' RT
+54.99, 30.45' RT
+51.68, 28.50' RT
+31.08, 28.50' RT
+83.08, 28.50' RT
+12.39, 26.00' RT
+89.33, 26.00' RT
+70.39, 26.00' RT
+10.00, 25.98' RT
+00.00, 26.00' RT
+04.33, 26.00' RT
+03.08, 64.68' RT
+91.08, 64.68' RT
+23.10, 68.36' RT
+48.27, 68.63' RT
+70.35, 46.86' RT
+34.44, 49.77' RT
+97.81, 59.58' RT
+15.54, 59.83' RT
R29'
R30'
R15'
R15'
R20'
R20'
PI 143+80.17
140+00
141+00
142+00
143+00
144+00
145+00
USH 45
18'
14'
17'
SIGN
SIGN
SIGN
SIGN
SIGN
SIGN
MH

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 56	E

2



PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
—x—x—	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 57	E

2

N

SEPTIC

+36.11, -44.07' LT
+20.11, -44.07' LT
AG01
+15.11, -22.00' LT
+41.11, -22.00' LT

C602
AP01

+96.78, -40.00' LT
+77.07, -40.00' LT
DR02
+73.38, -22.00' LT
+99.38, -22.00' LT

22'

152+00 153+00 USH 45 154+00 155+00 156+00 157+00

USH 45

+62.34, 17.00' RT
+18.34, 17.00' RT
DR01
R20'
R20'
+83.85, 51.61' RT
+95.87, 51.78' RT

+34.39, 17.00' RT
+90.39, 17.00' RT
AG01
R20'
R20'
+57.92, 44.35' RT
+68.58, 44.39' RT

AP01
AP01
AP01
AG01

17'

+09.53, 17.00' RT
5'
R20'
AG01

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
—x—x—	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 58	E

2

N

+88.17, -59.29' LT
+78.73, -52.47' LT
+75.35, -59.19' LT
+61.73, -52.43' LT
+01.17, -44.64' LT
+82.36, -44.53' LT
DR02
DR01
DR01
CG02
PVO3
+00.00, -22.00' LT
+60.10, -22.00' LT
AGO1
3'
5'
+77.35, -22.00' LT
+56.69, -22.00' LT
AP01
+68.82, -22.00' LT
+06.11, -22.00' LT
+83.15, -22.00' LT
AP01
+94.82, -22.00' LT
+90.00, -17.00' LT
22'
17'
158+00
USH 45
159+00
160+00
161+00
USH 45
162+00
163+00
+65.53, 17.00' RT
AP01
+03.12, 17.12' RT
+79.86, 17.00' RT
17'
AGO1
R20'
R20'
AGO1
5'
+45.99, 54.02' RT
+31.33, 54.02' RT
AGO1
FIELD
ACCESS
+32.73, 74.29' RT
+51.67, 74.04' RT

PLAN DETAILS LEGEND

APO1	HMA PAVEMENT
AGO1	BASE AGGREGATE DENSE 3/4-INCH
PVO3	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
—×—×—	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 59	E

2

N

LT

164+00

165+00

166+00

167+00

168+00

169+00

USH 45

5'

17'

AG01

AP01

+82.91, -22.00' LT

+68.84, -17.00' LT

3'

+80.90, 17.00' RT

+75.90, 17.00' RT

+57.07, 17.00' RT

29'

+74.22, 29.00' RT

R30'

+16.91, 104.52' RT

+46.05, 104.52' RT

SIGN

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
—x—x—	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 60	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021201_PD.DWG
LAYOUT NAME - 021212_PD
PLOT DATE : 1/11/2017 10:39 AM PLOT BY : HAYNES, RONNIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

CHURCH RD.

3' 12' 12' 3'

+56.05, 12.01' RT

+52.11, -11.99' LT

AG01

AP01

AG01

AP01

49+00

+12.37, -18.02' LT

15'

PV03

+31.70, 18.01' RT

15'

R40'

PV03

CG02

R60'

+68.84, -30.85' LT

AG01

AG01

3'

28'

CG02

P: 170+24.22

+98.78, -28.00' LT

AP01

AP01

1'

30'

0

170+00

50+00

EP: 50+00.00

171+00

172+00

173+00

USH 45

174+00

175+00

STA. 170+24.22 USH 45 =
STA. 50+00.00 CHURCH RD.

USH 45

AP01

AP01

29'

+24.20, 29.00' RT

+79.66, 29.06' RT

+49.21, 17.00' RT

17'

5'

5'

+23.67, 29.06' RT

AG01

AG01

+46.70, 73.34' RT

FIELD

+57.49, 73.02' RT

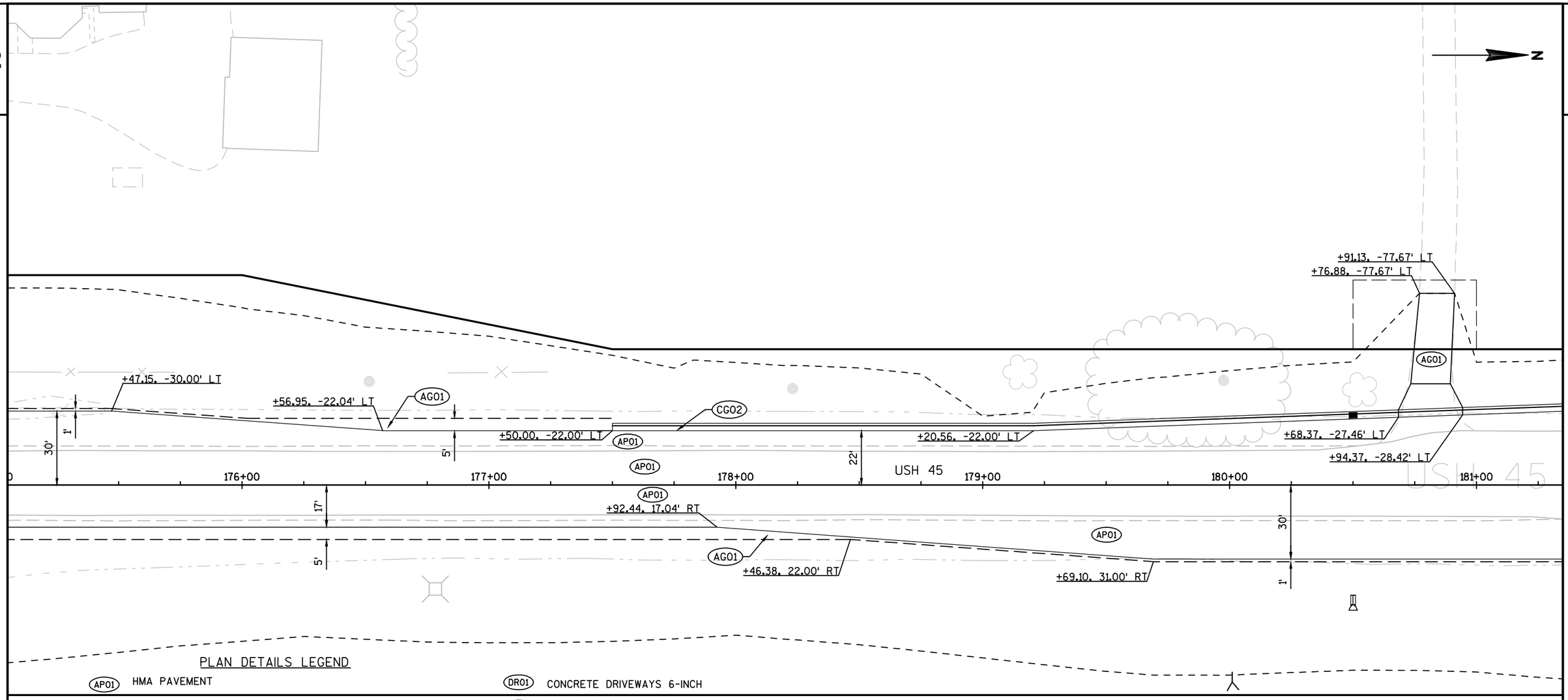
ACCESS

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 61	E

2



PLAN DETAILS LEGEND

AP01	HMA PAVEMENT	DR01	CONCRETE DRIVEWAYS 6-INCH
AG01	BASE AGGREGATE DENSE 3/4-INCH	DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
PV03	ASPHALTIC FLUME	DR03	CONCRETE DRIVEWAYS HES 6-INCH
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D	CM04	CONCRETE PAVEMENT 8-INCH
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	CM05	CONCRETE PAVEMENT 12-INCH
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T	CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G	CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	CM08	RED COLORED CONCRETE TRUCK APRON
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1	NM01	SEEDING NO MOW FESCUE
CM02	CONCRETE CORRUGATE MEDIAN	—x—x—	SAFETY FENCE
CM03	CONCRETE SIDEWALK 5-INCH		UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 62	E

2

2

N

+27.73, -73.60' LT
+13.43, -73.60' LT
AG01
+45.56, -34.00' LT
+06.34, -34.00' LT
+32.34, -34.00' LT
CG02
SAFETY FENCE TO PROTECT
ARCHEOLOGICAL SITE
+17.20, -52.00' LT
+99.92, -50.00' LT
STA. 183+44.33 USH 45 =
STA. 50+00.00 52ND RD.
AP01
34'
45
182+00
183+00
BP: 50+00.00
184+00
USH 45
185+00
186+00
187+00
28'
AG01
+69.03, 31.00' RT
R60'
CG02
+88.26, 18.00' RT
15'
PV03
AG01
3'
11'
11'
3'
+59.95, 13.85' RT
51+00
52ND RD.
15'
+67.88, -18.00' LT
PV03
AG01
+59.78, -13.98' LT
28'
AP01
AP01
+99.25, 28.00' RT
R45'
22'
+50.00, 22.00' RT
+00.00, 22.00' RT
CG02
PV03
3'
+40.00, 17.00' RT
17'
5'
AG01
+17.63, 22.00' RT

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 63	E

2

N

SAFETY FENCE TO PROTECT ARCHEOLOGICAL SITE

+99.92, -50.00' LT

CG02

PV03

+99.88, -34.00' LT

3'

AG01

AP01

C-51-65

5'

R20'

+03.80, -29.00' LT

34'

29'

188+00 189+00 190+00 191+00 192+00 193+00

USH 45

STA. 193+14.72 USH 45 =
STA. 50+00.00 SAVAGE RD.

17'

+75.75, 17.00' RT

+25.50, 22.00' RT

5'

+38.00, 30.00' RT

30'

+38.49, 28.00' RT

1'

CG02

R60'

SAVAGE RD.

AP01

15'

+89.10, 18.01' RT

51+00

AG01

3'

+33.89, -11.99' LT

+43.28, 12.01' RT

CG02

12'

12'

R20'

+80.47, 35.20' RT

+82.47, -12.00' LT

DR02

UNNAMED TRIBUTARY TO THE WEST BRANCH OF THE ROOT RIVER CANAL

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 64	E

2

N

+24.11, -73.36' LT
+35.34, -74.40' LT
+68.62, -60.00' LT
+56.18, -60.00' LT
AG01
R20'
5'
+64.53, -29.00' LT
+59.80, -29.00' LT
AG01
PI: 196+66.90
+81.53, -17.00' LT
5'
+33.72, -17.00' LT
R20'
DR02
R20'
+89.72, -17.00' LT
29'
AP01
58TH RD.
USH 45
17'
STA. 193+14.72 USH 45 =
STA. 50+00.00 SAVAGE RD.
BP: 50+00.00
194+00
195+00
196+00
197+00
198+00
199+00
28'
AP01
+77.00, 22.00' RT
AP01
+51.00, 22.00' RT
22'
17'
+66.19, 22.00' RT
+90.11, 22.00' RT
+20.00, 17.00' RT
5'
+66.39, 27.99' RT
R40'
CG02
+00.00, 25.00' RT
AG01
AP01
+63.06, -15.26' LT
SAVAGE RD.
51+00
+59.86, 85.82' RT
+71.43, 85.82' RT
99' LT
0' T
SEPTIC

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT	DR01	CONCRETE DRIVEWAYS 6-INCH
AG01	BASE AGGREGATE DENSE 3/4-INCH	DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
PV03	ASPHALTIC FLUME	DR03	CONCRETE DRIVEWAYS HES 6-INCH
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D	CM04	CONCRETE PAVEMENT 8-INCH
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	CM05	CONCRETE PAVEMENT 12-INCH
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T	CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G	CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	CM08	RED COLORED CONCRETE TRUCK APRON
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1	NM01	SEEDING NO MOW FESCUE
CM02	CONCRETE CORRUGATE MEDIAN		SAFETY FENCE
CM03	CONCRETE SIDEWALK 5-INCH		UNDERDRAIN OUTFALLS

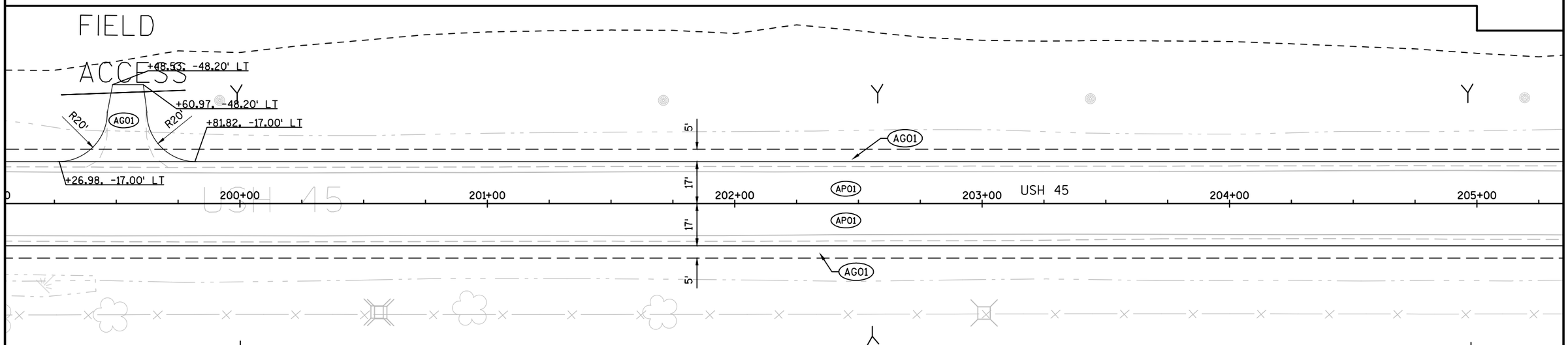
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021201_PD.DWG
LAYOUT NAME - 021217_PD

PLOT DATE : 1/11/2017 10:39 AM PLOT BY : HAYNES, RONNIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

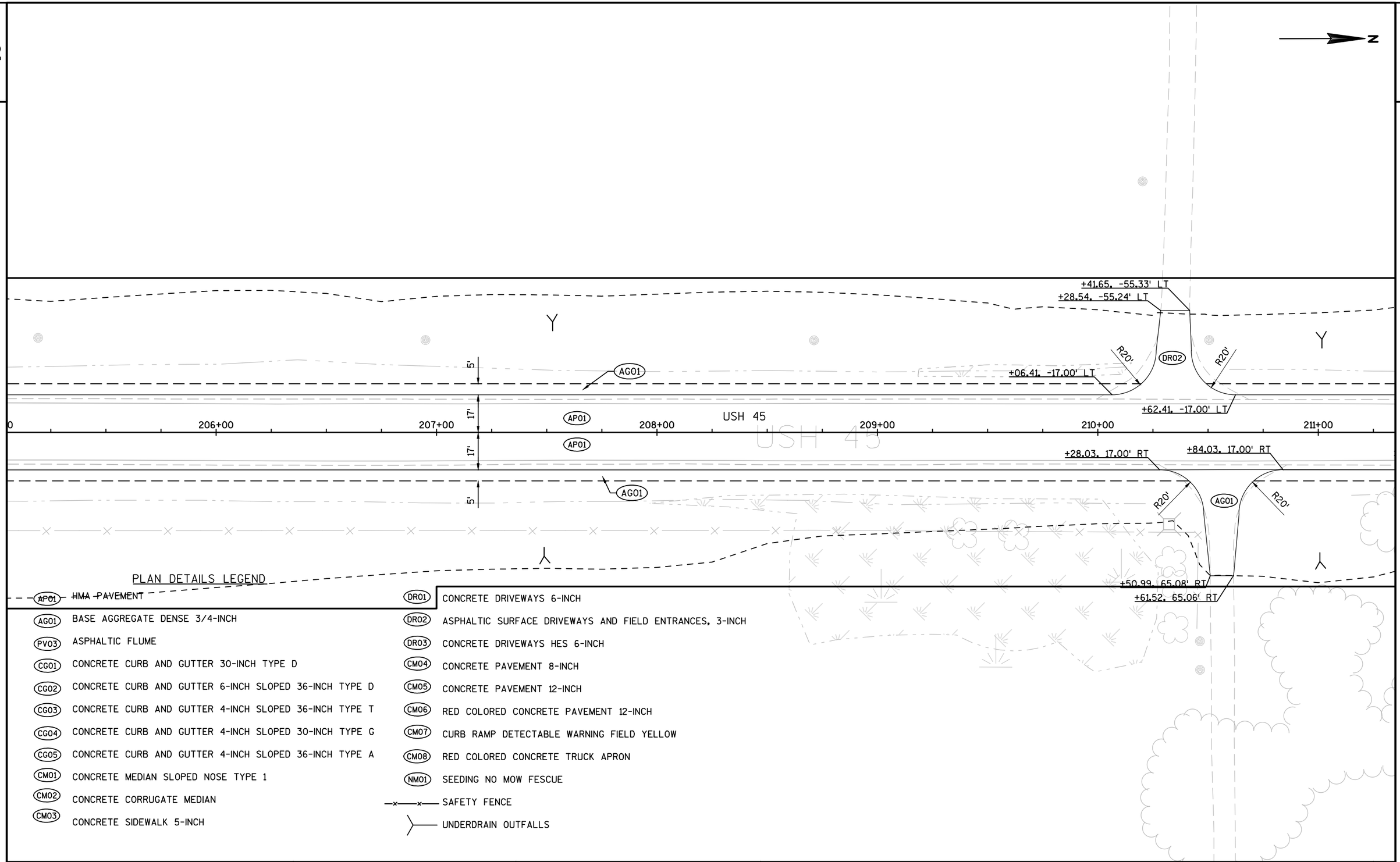


PLAN DETAILS LEGEND

AP01	HMA PAVEMENT	DR01	CONCRETE DRIVEWAYS 6-INCH
AG01	BASE AGGREGATE DENSE 3/4-INCH	DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
PV03	ASPHALTIC FLUME	DR03	CONCRETE DRIVEWAYS HES 6-INCH
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D	CM04	CONCRETE PAVEMENT 8-INCH
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	CM05	CONCRETE PAVEMENT 12-INCH
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T	CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G	CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	CM08	RED COLORED CONCRETE TRUCK APRON
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1	NM01	SEEDING NO MOW FESCUE
CM02	CONCRETE CORRUGATE MEDIAN	—x—x—	SAFETY FENCE
CM03	CONCRETE SIDEWALK 5-INCH		UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 66	E

2



PLAN DETAILS LEGEND

AP01	~~HMA PAVEMENT~~
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 67	E

2

N

USH 45

212+00 213+00 214+00 215+00 216+00 217+00

5'
17'
5'

AG01
AP01

+74.82, 17.00' RT
+30.82, 17.00' RT
+22.50, 17.00' RT
+72.50, 22.00' RT
+99.52, 60.31' RT
+08.98, 60.23' RT

R20'
R20'

GUY

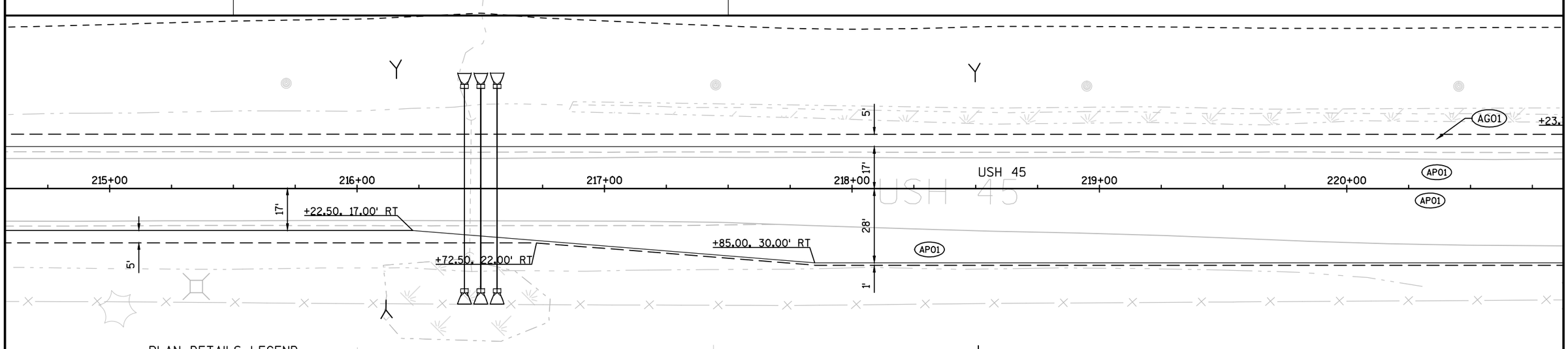
PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
—x—x—	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 68	E

2

N



PLAN DETAILS LEGEND

AP01	HMA PAVEMENT	DR01	CONCRETE DRIVEWAYS 6-INCH
AG01	BASE AGGREGATE DENSE 3/4-INCH	DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
PV03	ASPHALTIC FLUME	DR03	CONCRETE DRIVEWAYS HES 6-INCH
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D	CM04	CONCRETE PAVEMENT 8-INCH
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	CM05	CONCRETE PAVEMENT 12-INCH
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T	CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G	CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	CM08	RED COLORED CONCRETE TRUCK APRON
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1	NM01	SEEDING NO MOW FESCUE
CM02	CONCRETE CORRUGATE MEDIAN		SAFETY FENCE
CM03	CONCRETE SIDEWALK 5-INCH		UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 69	E

2

N

3'
23'
12'
CTH A
3'
+49.84, -45.00' LT
AG01
AG01
+71.60, -12.00' LT
AP01
SIGN
+99.77, -67.00' LT
SAFETY FENCE TO PROTECT
ARCHEOLOGICAL SITE
PV03
PV03
+27.16, 32.25' RT
+31.60, -15.00' LT
R50'
32'
15'
+54.66, 16.00' RT
+52.81, 23.54' RT
+64.56, 31.41' RT
+76.46, -49.71' LT
+00.19, -49.62' LT
CG02
CG02
AP01
R40'
49+00
PI: 223+00.09
3'
+18.25, -31.00' LT
+23.77, -22.00' LT
CM03
CG02
+71.11, 27.99' RT
+70.36, 19.64' RT
+66.38, 16.00' RT
+55.59, -28.00' LT
28'
+08.25, -17.00' LT
+17.91, -92.40' LT
+07.38, -92.40' LT
AG01
CG02
AP01
+99.20, -28.00' LT
+25.20, -28.00' LT
28'
221+00
222+00
223+00
PI: 50+00.00
224+00
USH 45
225+00
226+00
AP01
22
30'
STA. 223+00.09 USH 45 =
STA. 50+00.00 CTH A
CM03
+28.78, -27.69' LT
+29.55, -19.62' LT
+33.53, -16.00' LT
+81.51, 31.00' RT
+35.32, -31.15' LT
28'
AP01
+91.52, 17.00' RT
+75.99, 22.00' RT
17'
AP01
5'
AG01
1'
+45.00, 31.00' RT
CG02
CG02
CG02
R40'
R50'
+44.85, -16.00' LT
+46.72, -23.54' LT
+68.08, 15.00' RT
AP01
PV03
+72.48, -32.19' LT
AP01
51+00
AG01
12'
27'
PV03
+28.08, 12.00' RT
AG01
CTH A

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC ELUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 70	E

2

N

+40.41, -113.61' LT
+28.89, -113.61' LT

AGO1

+14.26, -28.00' LT

+18.97, -27.81' LT

+44.97, -26.77' LT

+64.26, -22.00' LT

+49.99, -22.00' LT

CGO2

PVO3

+10.10, -22.00' LT

+40.00, -17.00' LT

AGO1

AP01

AP01

AP01

AP01

Y

Y

28'

22'

17'

5'

17'

227+00

228+00

229+00

230+00

USH 45

231+00

232+00

+87.90, 17.00' RT

+39.28, 17.00' RT

17'

17'

5'

AGO1

AGO1

+05.52, 48.77' RT

+19.19, 48.78' RT

FIELD ACCESS

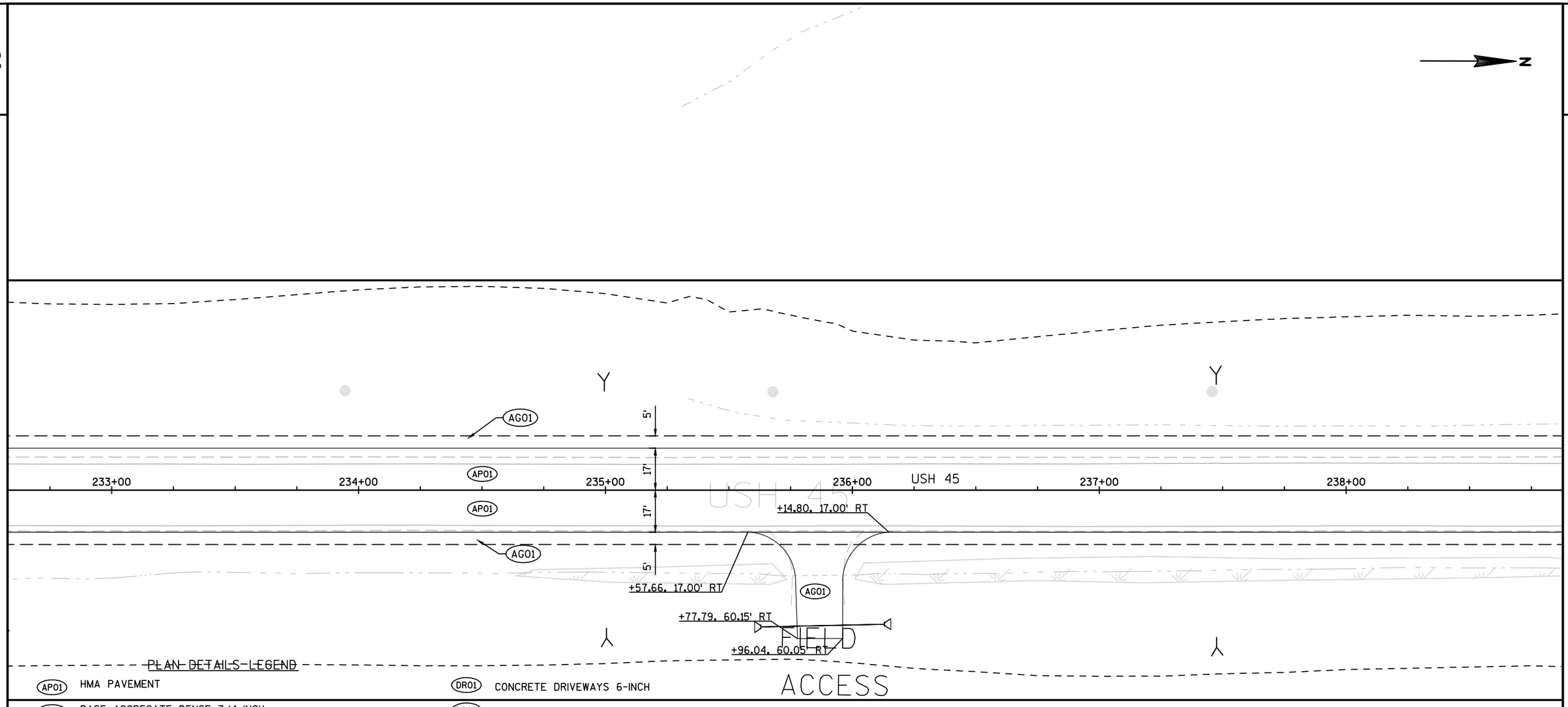
PLAN DETAILS LEGEND

APO1	HMA PAVEMENT	DRO1	CONCRETE DRIVEWAYS 6-INCH
AGO1	BASE AGGREGATE DENSE 3/4-INCH	DRO2	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
PVO3	ASPHALTIC FLUME	DRO3	CONCRETE DRIVEWAYS HES 6-INCH
CGO1	CONCRETE CURB AND GUTTER 30-INCH TYPE D	CMO4	CONCRETE PAVEMENT 8-INCH
CGO2	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	CMO5	CONCRETE PAVEMENT 12-INCH
CGO3	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T	CMO6	RED COLORED CONCRETE PAVEMENT 12-INCH
CGO4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G	CMO7	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CGO5	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	CMO8	RED COLORED CONCRETE TRUCK APRON
CMO1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	NMO1	SEEDING NO MOW FESCUE
CMO2	CONCRETE CORRUGATE MEDIAN		SAFETY FENCE
CMO3	CONCRETE SIDEWALK 5-INCH		UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACIUE	PLAN DETAIL	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021201_PD.DWG
LAYOUT NAME - 021223_PD

PLOT DATE : 1/11/2017 10:40 AM PLOT BY : HAYNES, RONNIE PLOT NAME : PLOT SCALE : 1 IN:40 FT



PLAN DETAILS LEGEND

AP01	HMA PAVEMENT	DR01	CONCRETE DRIVEWAYS 6-INCH
AG01	BASE AGGREGATE DENSE 3/4-INCH	DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
PV03	ASPHALTIC FLUME	DR03	CONCRETE DRIVEWAYS HES 6-INCH
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D	CM04	CONCRETE PAVEMENT 8-INCH
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	CM05	CONCRETE PAVEMENT 12-INCH
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T	CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G	CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	CM08	RED COLORED CONCRETE TRUCK APRON
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1	NM01	SEEDING NO MOW FESCUE
CM02	CONCRETE CORRUGATE MEDIAN		SAFETY FENCE
CM03	CONCRETE SIDEWALK 5-INCH		UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 72	E

2

N

UNNAMED TRIBUTARY TO THE WEST
BRANCH OF THE ROOT RIVER CANAL

C-51-67

Y

Y

5'

AG01

17'

239+00

240+00

241+00

USH 45

242+00

243+00

AP01

244+00

17'

AP01

AG01

5'

USH 45

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
—x—x—	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 73	E

2

N

FIELD

ACCESS

+39.58, -68.01' LT

+53.53, -67.96' LT

+18.29, -17.10' LT

+73.81, -17.00' LT

AG01

Y

Y

Y

Pt: 249+36.92

AG01

AP01

USH 45

245+00 246+00 247+00 248+00 249+00 250+00

+10.00, 17.00' RT

+53.52, 22.00' RT

+00.00, 22.00' RT

+39.88, 22.00' RT

22'

AP01

CG02

AG01

PV03

+59.76, 42.63' RT

+73.84, 42.63' RT

+79.52, 22.00' RT

AG01

+83.04, 48.59' RT

+95.99, 48.59' RT

10'

AP01

CG02

+49.98, 22.00' RT

+39.98, 17.00' RT

AP01

+17.61, 22.00' RT

5'

AG01

PV03

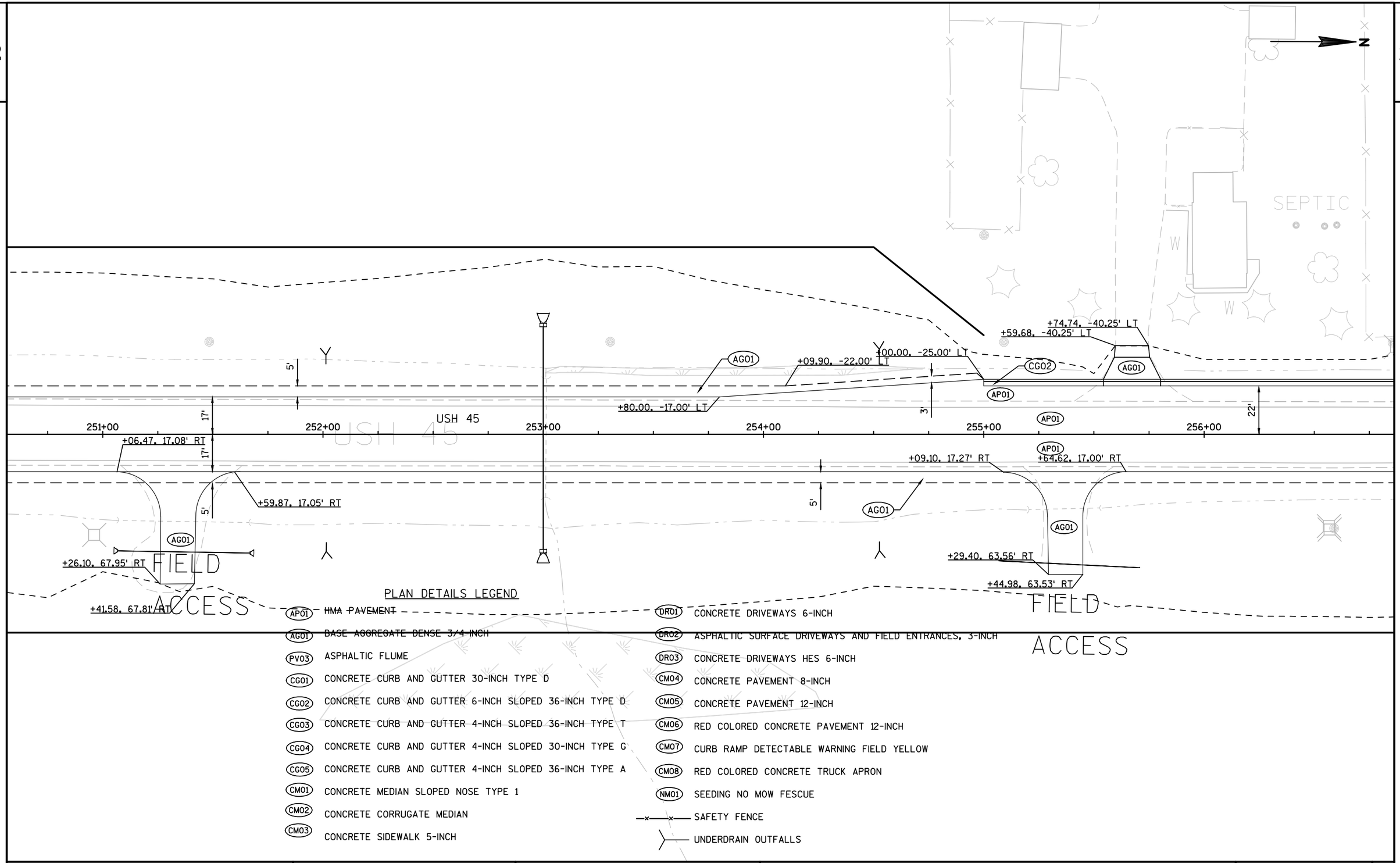
+26

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
-x-x-	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 74	E

2

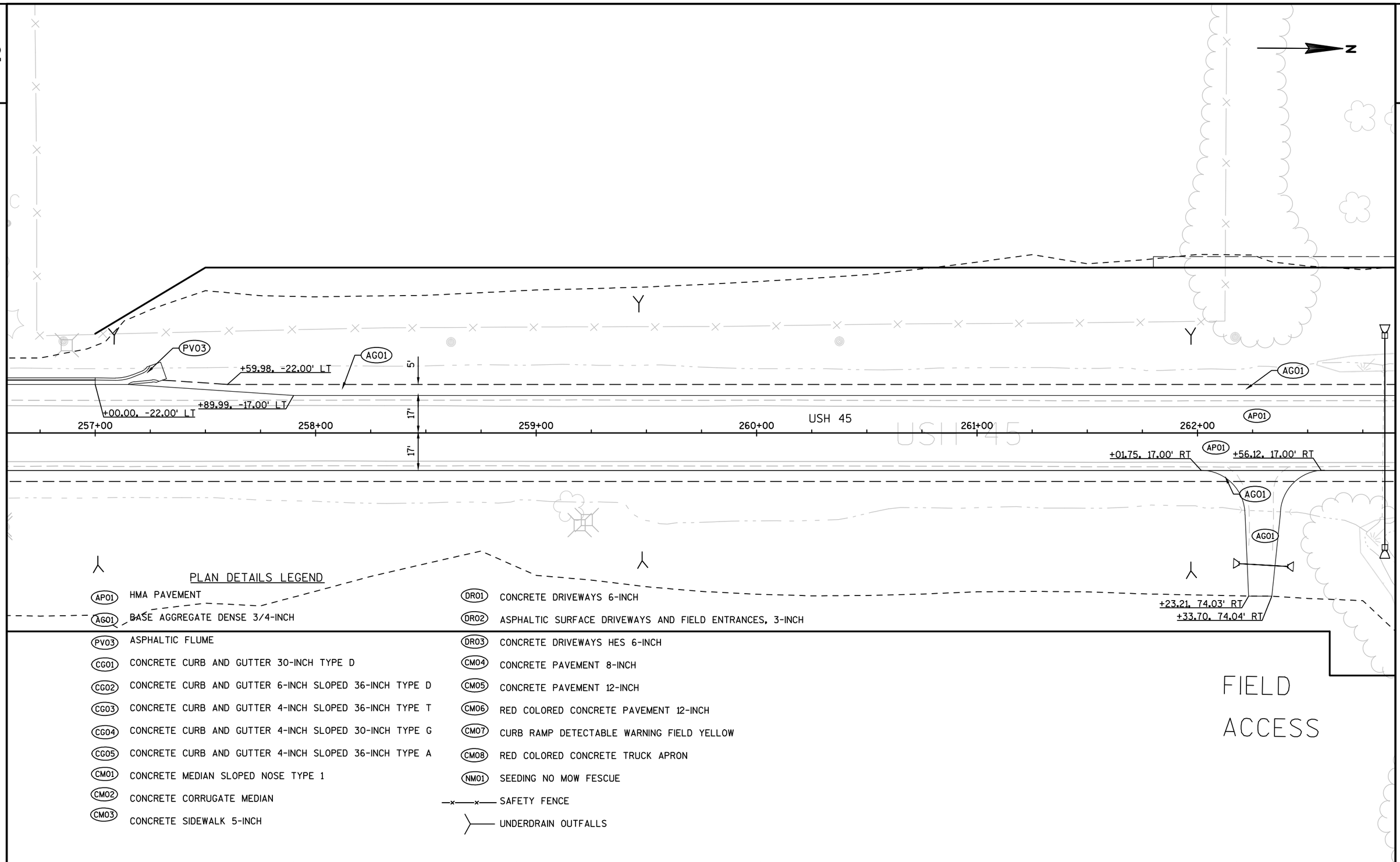


PLAN DETAILS LEGEND

AP01	~~HMA PAVEMENT~~
AG01	~~BASE AGGREGATE DENSE 3/4 INCH~~
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 75	E

2



PLAN DETAILS LEGEND

- AP01 HMA PAVEMENT
- AG01 BASE AGGREGATE DENSE 3/4-INCH
- PV03 ASPHALTIC FLUME
- CG01 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG02 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CG03 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
- CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
- CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM02 CONCRETE CORRUGATE MEDIAN
- CM03 CONCRETE SIDEWALK 5-INCH
- DR01 CONCRETE DRIVEWAYS 6-INCH
- DR02 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- DR03 CONCRETE DRIVEWAYS HES 6-INCH
- CM04 CONCRETE PAVEMENT 8-INCH
- CM05 CONCRETE PAVEMENT 12-INCH
- CM06 RED COLORED CONCRETE PAVEMENT 12-INCH
- CM07 CURB RAMP DETECTABLE WARNING FIELD YELLOW
- CM08 RED COLORED CONCRETE TRUCK APRON
- NM01 SEEDING NO MOW FESCUE
- SAFETY FENCE
- UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 76	E

2

N

UNNAMED TRIBUTARY TO THE WEST BRANCH OF THE ROOT RIVER CANAL

FIELD ACCESS

C-51-23

+54.83, -45.00' LT
+42.72, -45.00' LT
+39.28, -60.11' LT
+54.54, -60.03' LT
+32.93, -65.00' LT
+15.28, -65.00' LT
+19.42, -17.06' LT
+21.01, -17.00' LT
+77.01, -17.00' LT
+75.42, -17.06' LT

AG01 DR02 R20' 5' 17'

263+00 264+00 265+00 266+00 267+00 268+00

USH 45

AP01

POST

END PROJECT
STA. 268+40

PLAN DETAILS LEGEND

APO1	HMA PAVEMENT
AGO1	BASE AGGREGATE DENSE 3/4-INCH
PVO3	ASPHALTIC FLUME
CGO1	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CGO2	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CGO3	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CGO4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CGO5	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
-x-x-	SAFETY FENCE
	UNDERDRAIN OUTFALLS

FIELD ACCES

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL	SHEET 77	E

2

2

N

SIGN

USH 45

119+00

118+00

117+00

116+00

BP: 50+00.00

STA. 117+41.54 USH 45 =
STA. 50+00.00 58TH RD.

PI: 117+41.54

58TH RD.

51+00

52+00

53+00

54+00

R40

R60

+67.51, -15.00' LT

+19.00, -12.00' LT

+02.90, -67.00' LT

+82.90, -67.00' LT

+77.90, -12.00' LT

+07.90, -12.00' LT

+88.99, 15.00' RT

+19.00, 12.00' RT

+74.63, 12.00' RT

+13.91, 12.00' RT

+79.63, 41.00' RT

+08.91, 41.00' RT

15'

12'

CG02

AP01

AG01

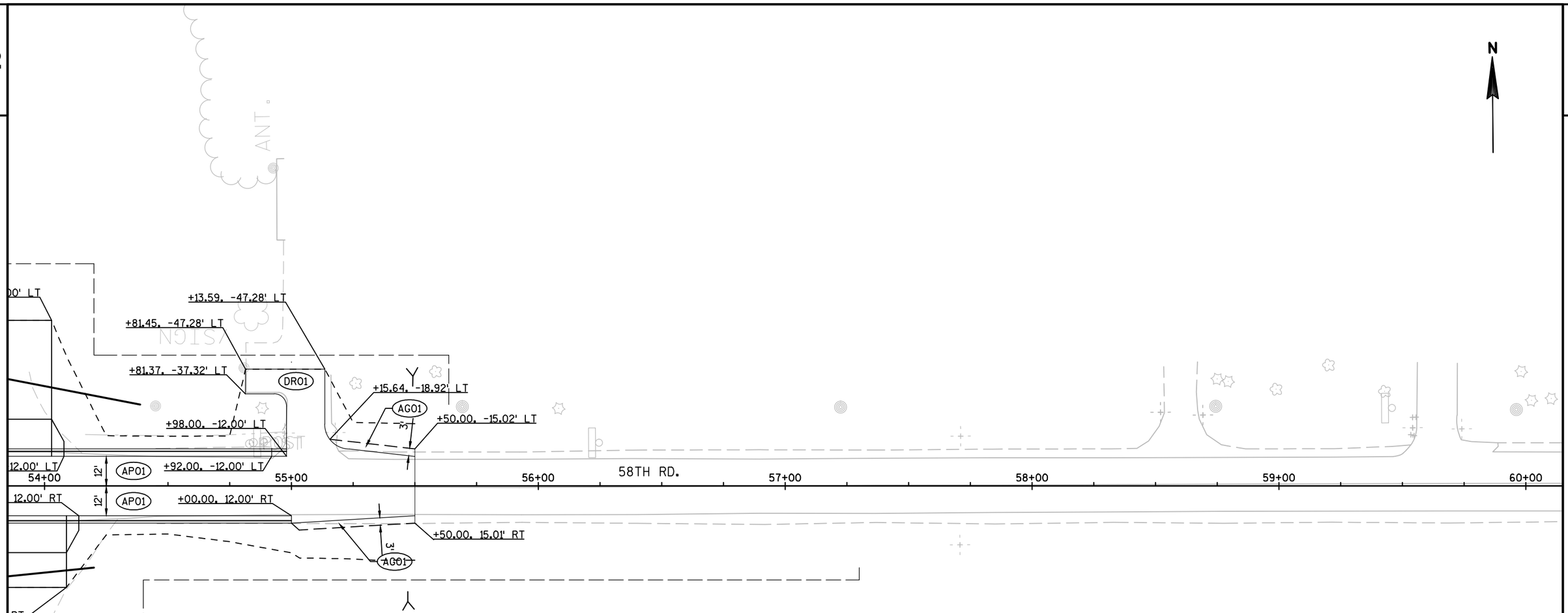
DIMENSIONS FOR US 45 ARE ON
PREVIOUS SHEETS.

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
—x—x—	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL - 58TH RD	SHEET 78	E

2



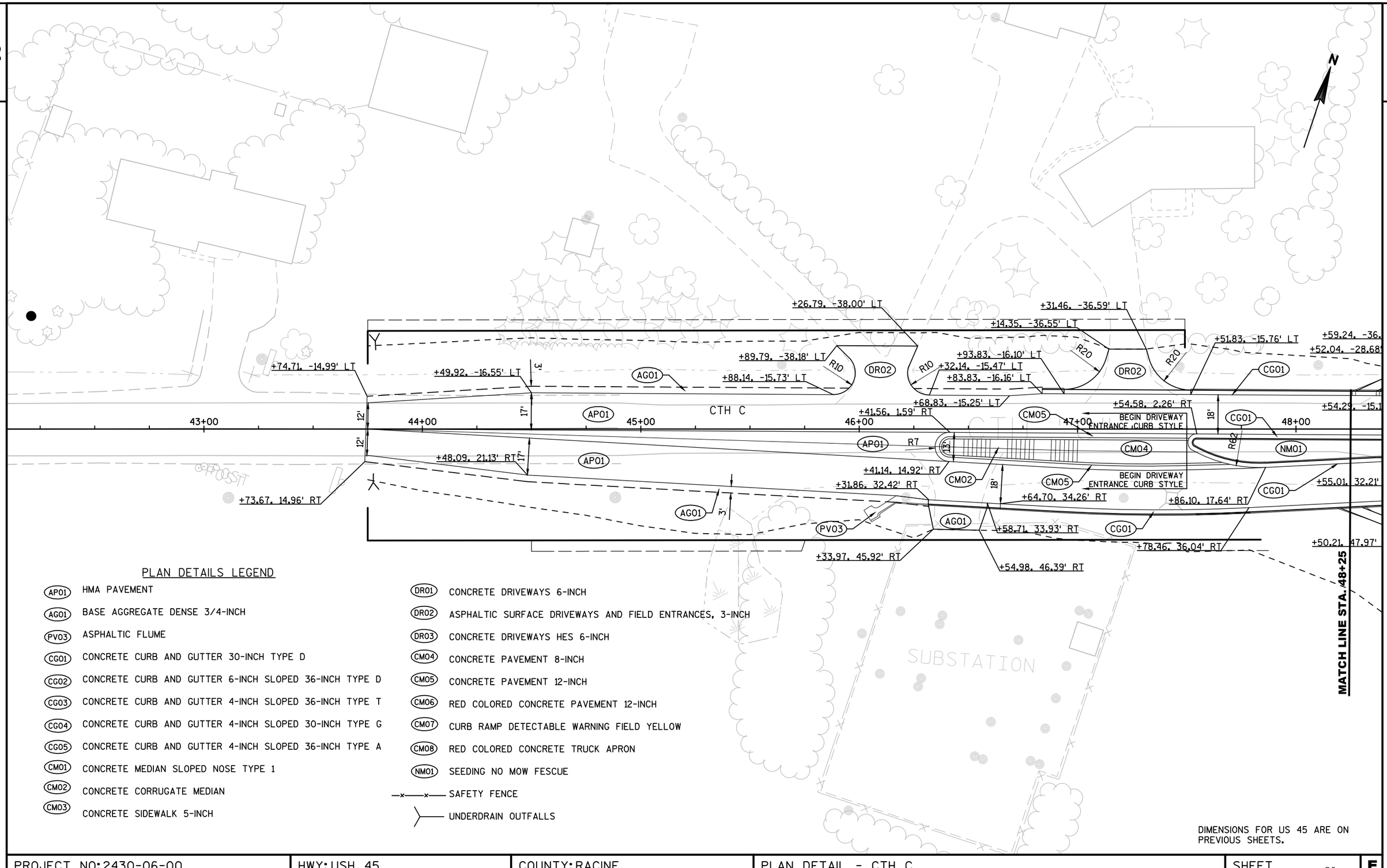
PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
—x—x—	SAFETY FENCE
Y	UNDERDRAIN OUTFALLS

DIMENSIONS FOR US 45 ARE ON PREVIOUS SHEETS.

PROJECT NO:2430-06-00	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL - 58TH RD	SHEET 79	E

2



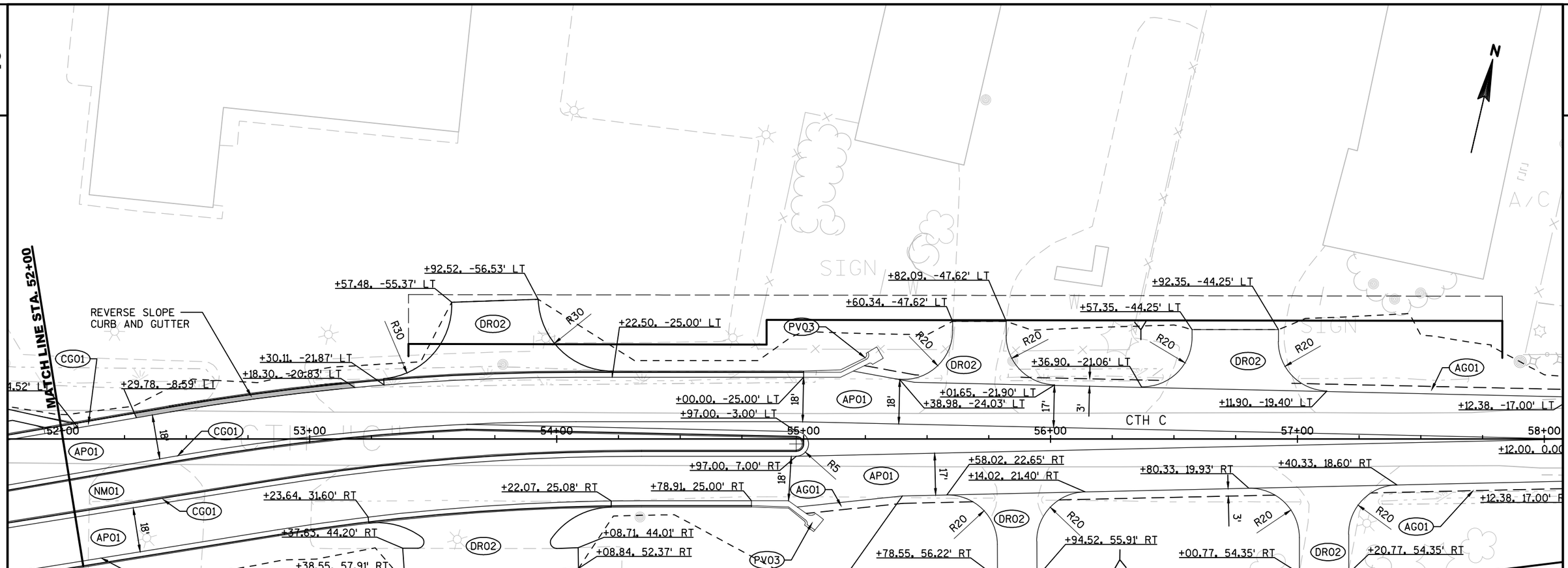
PLAN DETAILS LEGEND

- (AP01) HMA PAVEMENT
- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (PV03) ASPHALTIC FLUME
- (CG01) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (CG02) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CG03) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
- (CG04) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
- (CG05) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM02) CONCRETE CORRUGATE MEDIAN
- (CM03) CONCRETE SIDEWALK 5-INCH
- (DR01) CONCRETE DRIVEWAYS 6-INCH
- (DR02) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (DR03) CONCRETE DRIVEWAYS HES 6-INCH
- (CM04) CONCRETE PAVEMENT 8-INCH
- (CM05) CONCRETE PAVEMENT 12-INCH
- (CM06) RED COLORED CONCRETE PAVEMENT 12-INCH
- (CM07) CURB RAMP DETECTABLE WARNING FIELD YELLOW
- (CM08) RED COLORED CONCRETE TRUCK APRON
- (NM01) SEEDING NO MOW FESCUE
- —x——x— SAFETY FENCE
- UNDERDRAIN OUTFALLS

DIMENSIONS FOR US 45 ARE ON PREVIOUS SHEETS.

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL - CTH C	SHEET 80	E

2

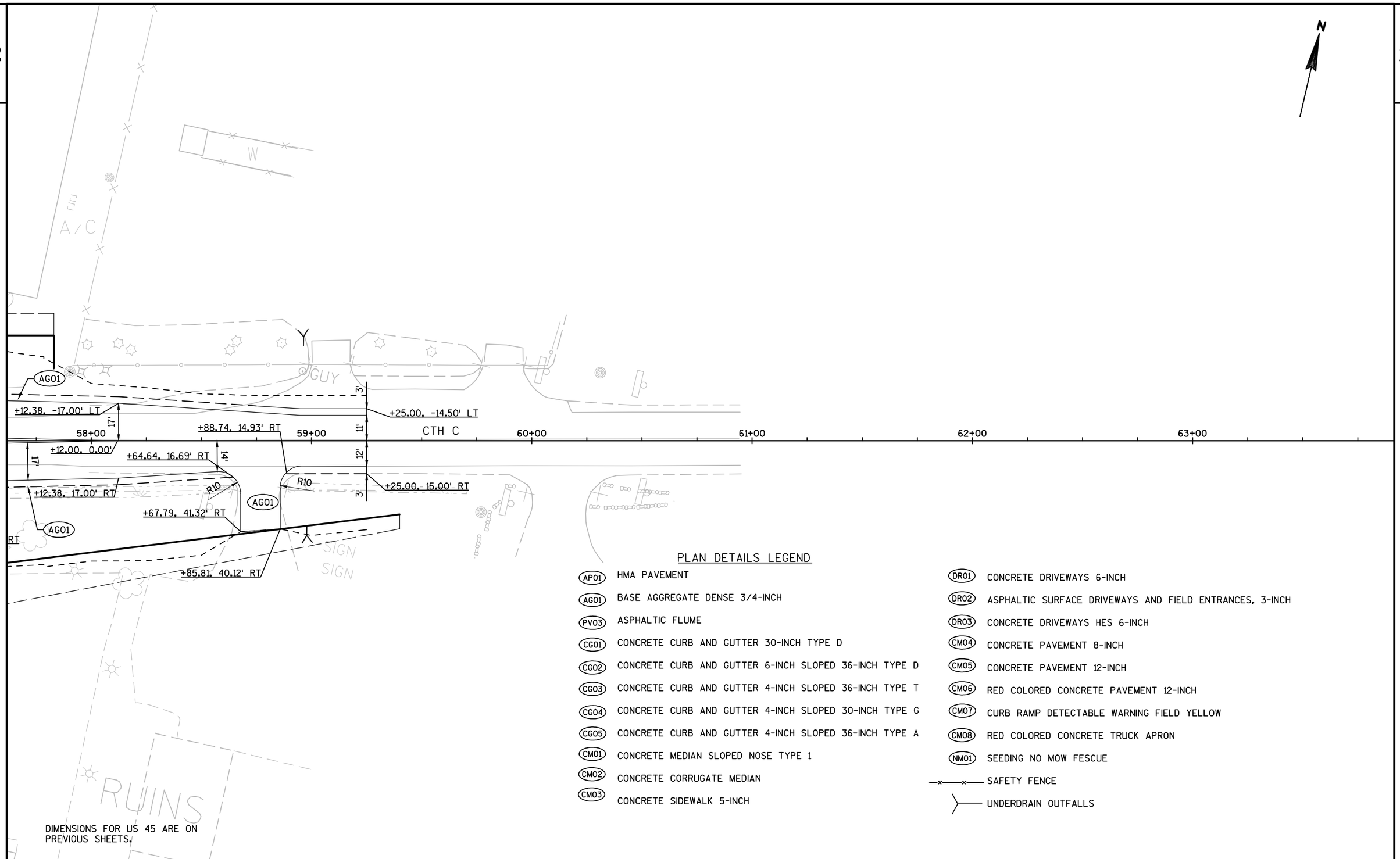


PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
-x-x-	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO:2430-06-00	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL - CTH C	SHEET 81	E

2



DIMENSIONS FOR US 45 ARE ON PREVIOUS SHEETS.

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
—x—x—	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL - CTH C	SHEET 82	E

2

N

STA. 170+24.22 USH 45 =
STA. 50+00.00 CHURCH RD.

+12.35, -39.00' LT
+96.35, -39.00' LT
+49.43, -31.70' LT
+21.81, -14.99' LT
+12.37, -15.02' LT
+86.88, -14.99' LT
+50.03, -14.99' LT
+52.11, -11.99' LT
R20
R20
AG01
AG01
AP01
3'
12'
15'

CHURCH RD.

46+00 47+00 48+00 49+00 50+00

PI: 170+24.22

EP: 50+00.00

USH 45

USH 45

FIELD ACCESS

172+00 171+00 170+00 169+00

+50.00, 15.00' RT
+56.05, 12.01' RT
+31.70, 15.01' RT
+59.26, 26.03' RT
AP01
AG01
12'
3'
15'

POST

PLAN DETAILS LEGEND

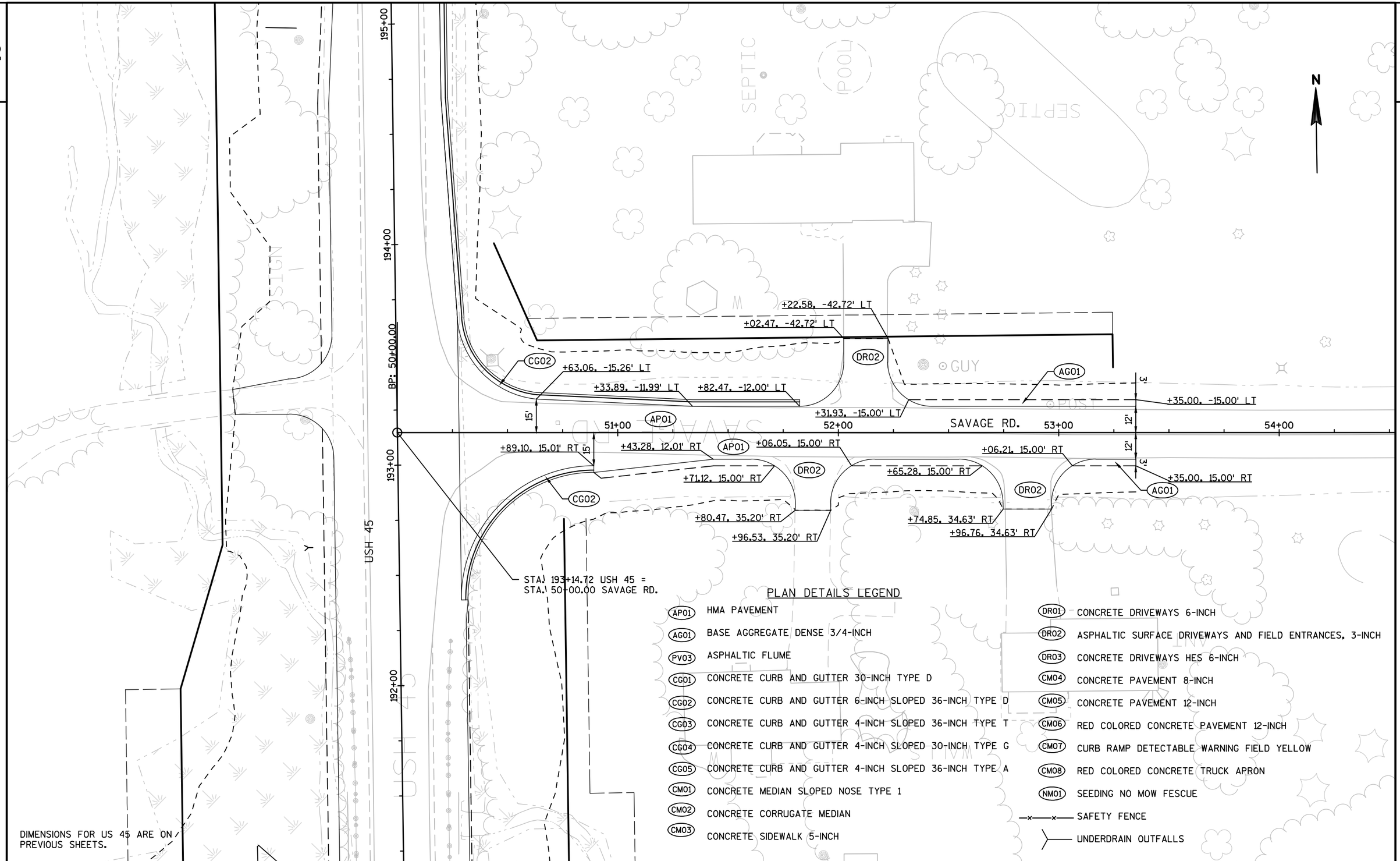
AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
—x—x—	SAFETY FENCE
	UNDERDRAIN OUTFALLS

DIMENSIONS FOR US 45 ARE ON PREVIOUS SHEETS.

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL - CHURCH RD	SHEET 83	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021230_PD.DWG
LAYOUT NAME - 021235_PD
PLOT DATE : 1/11/2017 11:08 AM PLOT BY : HAYNES, RONNIE PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



PLAN DETAILS LEGEND

APO1	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
	SAFETY FENCE
	UNDERDRAIN OUTFALLS

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL - SAVAGE RD	SHEET 84	E

2

SAFETY FENCE TO PROTECT
ARCHEOLOGICAL SITE

+99.84, -45.00' LT

+49.84, -45.00' LT

+76.46, -49.71' LT

+99.77, -67.00' LT

+00.10, -15.10' LT

+71.60, -12.00' LT

+31.60, -15.00' LT

+72.48, -32.19' LT

+25.54, 12.00' RT

+99.93, 15.00' RT

+27.16, 32.25' RT

+68.08, 15.00' RT

+28.08, 12.00' RT

CTH A

USH 45

PI: 50+00.00

PI: 223+00.09

46+00 47+00 48+00 49+00 50+00 51+00 52+00

224+00 223+00 222+00

AP01 AG01 PV03 CG02

PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
—x—x—	SAFETY FENCE
	UNDERDRAIN OUTFALLS

STA. 223+00.09 USH 45 =
STA. 50+00.00 CTH A

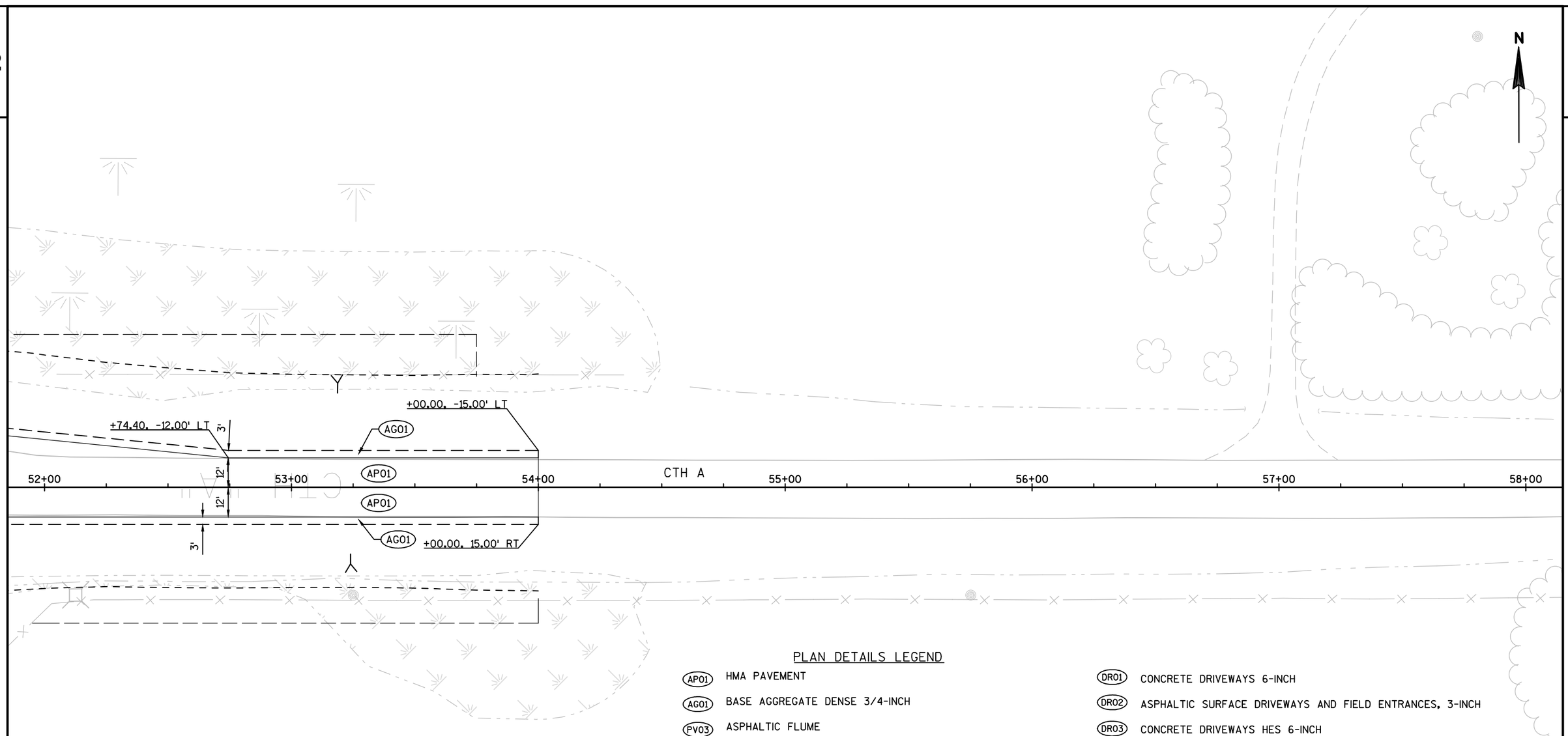
DIMENSIONS FOR US 45 ARE ON
PREVIOUS SHEETS.

PROJECT NO:2430-06-00	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL - CTH A	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021230_PD.DWG
LAYOUT NAME - 021238_PD

PLOT DATE : 1/11/2017 11:08 AM PLOT BY : HAYNES, RONNIE PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PLAN DETAILS LEGEND

AP01	HMA PAVEMENT
AG01	BASE AGGREGATE DENSE 3/4-INCH
PV03	ASPHALTIC FLUME
CG01	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG02	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CG03	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE G
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM02	CONCRETE CORRUGATE MEDIAN
CM03	CONCRETE SIDEWALK 5-INCH
DR01	CONCRETE DRIVEWAYS 6-INCH
DR02	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
DR03	CONCRETE DRIVEWAYS HES 6-INCH
CM04	CONCRETE PAVEMENT 8-INCH
CM05	CONCRETE PAVEMENT 12-INCH
CM06	RED COLORED CONCRETE PAVEMENT 12-INCH
CM07	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CM08	RED COLORED CONCRETE TRUCK APRON
NM01	SEEDING NO MOW FESCUE
—x—x—	SAFETY FENCE
Y	UNDERDRAIN OUTFALLS

DIMENSIONS FOR US 45 ARE ON PREVIOUS SHEETS.

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PLAN DETAIL - CTH A	SHEET 86	E

2

N

USH 45

774.70 774.60 774.40 774.16 773.91
774.13 774.03 773.83 773.59 773.33

773.24 772.85 772.39 771.89 771.33 770.72 770.09 769.46 768.86 768.32 767.85 767.45 767.10 766.83 766.61 766.46 766
772.68 772.27 771.82 771.31 770.76 770.15 769.52 768.88 768.28 767.75 767.28 766.87 766.53 766.25 766.04 765.89 765

7+00 774.45 **98+00** 774.23 774.03 773.77 **99+00** 773.12 772.26 **100+00** 771.20 770.59 769.96 **101+00** **102+00** 766.97 766.69 766.48 **103+00** 766
774.38 773.47 772.71 771.75 769.32 768.72 768.19 767.72 767.31 766.33

2.00%

774.01 773.94 773.79 773.59 773.33 773.03 772.68 772.27 771.82 771.31 770.76 770.15 769.52 768.88 768.28 767.75 767.28 766.87 766.53 766.25 766.04 765.89 765
772.39 771.89 771.33 770.72 770.09 769.46 768.86 768.32 767.85 767.45 767.10 766.83 766.61 766.46 766

2.00%

C-51-64

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 87	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021301_PG.DWG
LAYOUT NAME - 021301_PG
PLOT DATE : 11/30/2016 2:06 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

C-51-64

R-51-78

USH 45

6	766.38	766.36	766.40	766.51	766.69	766.93	767.23	767.60	768.03	768.52	769.08	769.71	770.35	770.95	1.5% 771.51	1.5% 772.03	772.51			773.36	773.73	774.05	774.34	774.59	774.80	774.97
9	765.80	765.78	765.83	765.94	766.11	766.35	766.65	767.02	767.45	767.95	768.51	769.14	769.77	770.37	770.93	771.45	771.94	772.38	772.79	773.15	773.48	773.77	774.02	774.23	774.40	
0	766.24	766.22	766.27	104+00	766.55	766.79	767.09	105+00		768.39	768.95	106+00	770.21	770.81	771.37	107+00	772.38	772.82	773.23	108+00	2.00% 773.92		774.21	774.46	109+00	774.84
8				766.38				767.46	767.89			769.57				771.89				773.59					774.67	
9	765.80	765.78	765.83	765.94	766.11	766.35	766.65	767.02	767.45	767.95	768.51	769.14	769.77	770.37	770.93	771.45	771.94	772.38	772.79	773.15	2.00% 773.48	773.77	774.02	774.23	774.40	
				766.34																						
6	766.38	766.36	766.40		766.69	766.93	767.23	767.60	1.5% 768.03	1.5% 768.52	769.08	769.71	770.35	770.95	771.51	772.03	772.51	772.96	773.36	773.73	774.05	774.17	774.59	774.80	774.97	

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 88	E

N

2

| | | |

2

N

USH 45

PI: 117+41.54

BP: 50+00.00

STH 00

| | | |

2

N

2

USH 45

781.14 781.34 781.56 781.79 782.02 782.27 782.52 782.78 783.04 783.31 783.57 783.84 784.10 784.37 784.63 784.90 785.16 785.42 785.69 785.95 786.22 786.48 786.75 787.01 787.27

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

781.48 781.69 781.91 782.14 782.38 782.62 782.88 783.14 783.41 783.68 783.95 784.22 784.49 784.76 785.02 785.29 785.56 785.83 786.10 786.37 786.64 786.89 787.14 787.34 787.60

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

781.04 781.25 781.46 781.69 781.92 782.17 782.42 782.68 782.94 783.21 783.47 783.74 784.00 784.27 784.53 784.80 785.06 785.32 785.59 785.85 786.13 786.41 786.68 786.96 787.23

2.00%

2.00%

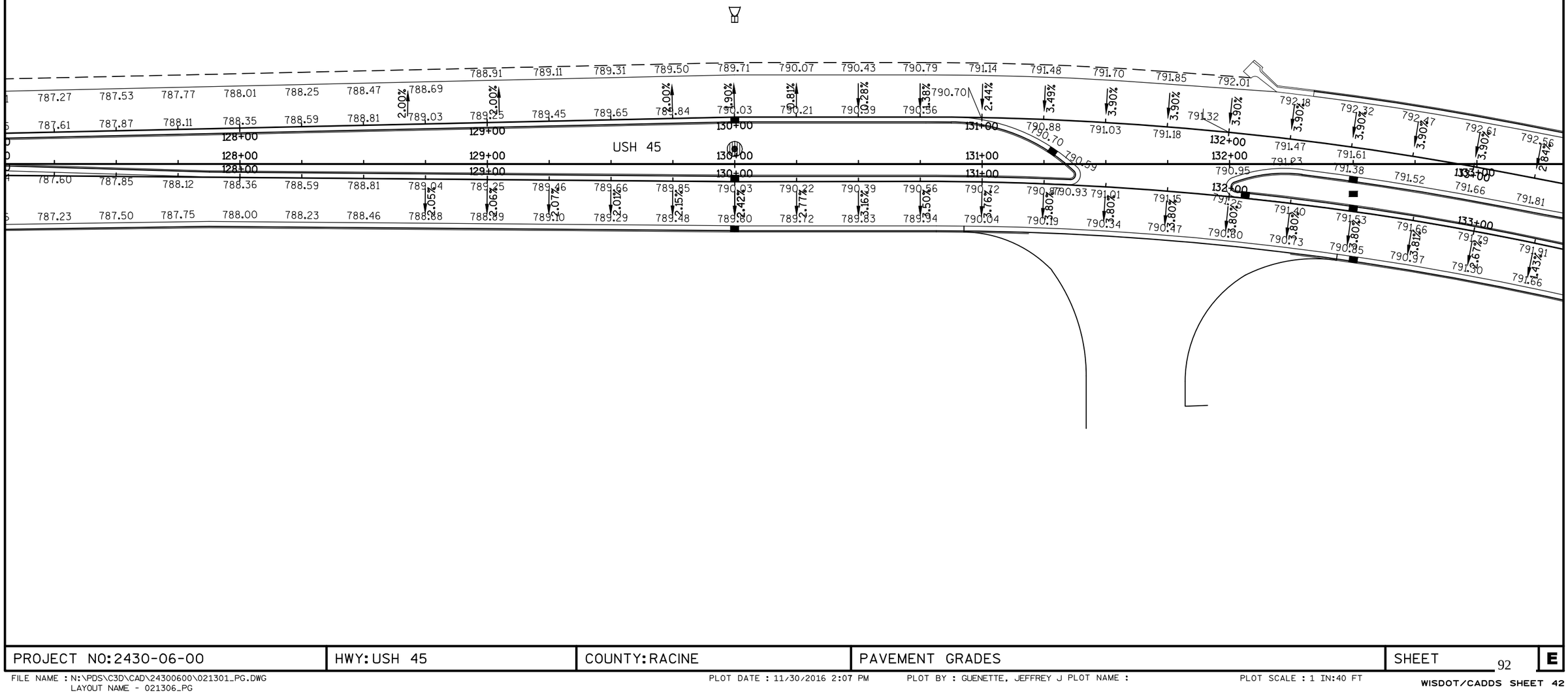
PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 91	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021301_PG.DWG
LAYOUT NAME - 021305_PG

PLOT DATE : 11/30/2016 2:07 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N



PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 92	E

SEE ROUNDABOUT CENTER PROFILES
FOR ELEVATIONS ALONG FLANGE LINE
AND CROWN LINE OF ROUNDABOUT

USH 45

CTH C

N

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 93	E

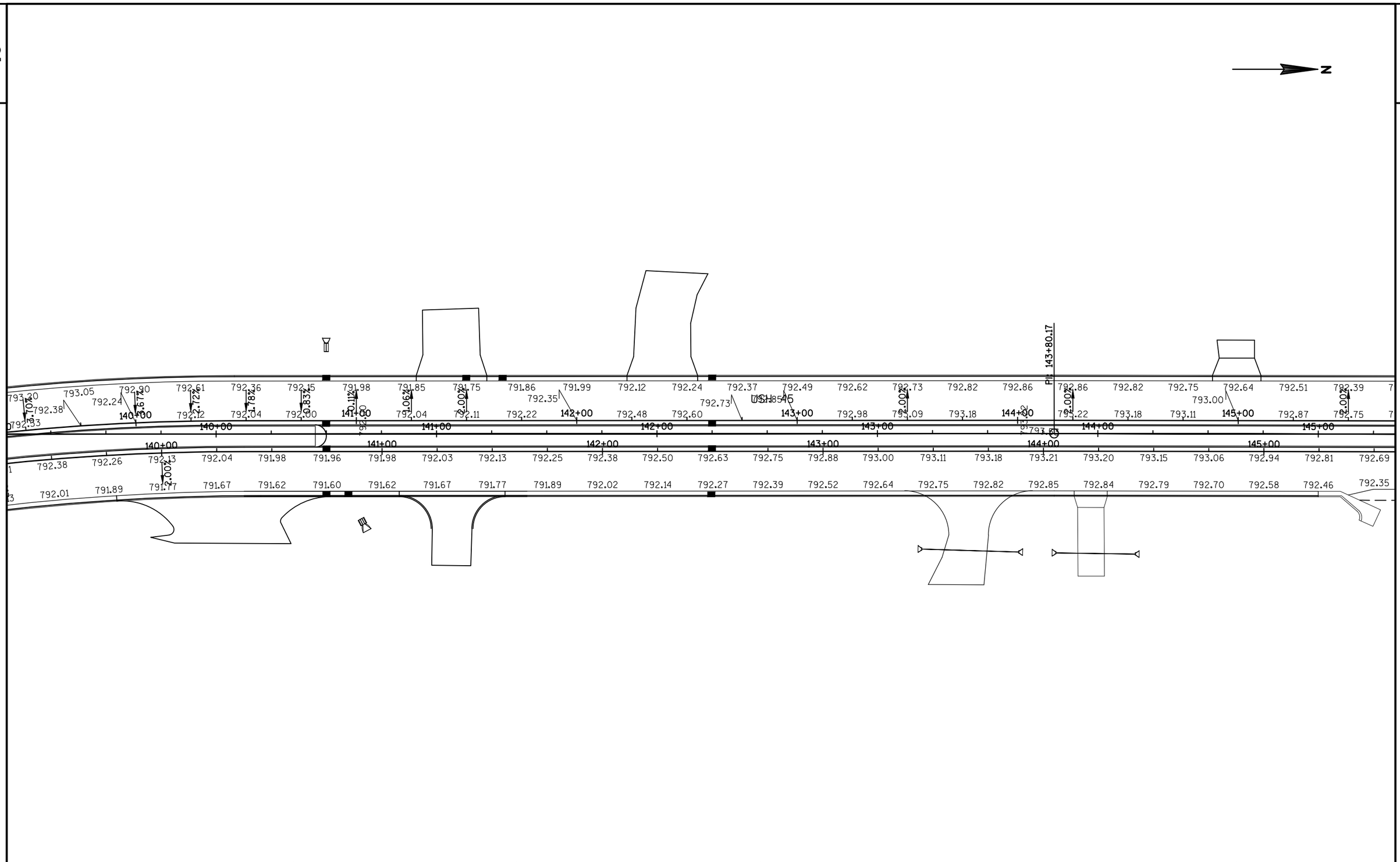
FILE NAME : N:\PDS\C3D\CAD\24300600\021301_PG.DWG
LAYOUT NAME - 021307_PG

PLOT DATE : 11/30/2016 2:07 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:40 FT

2

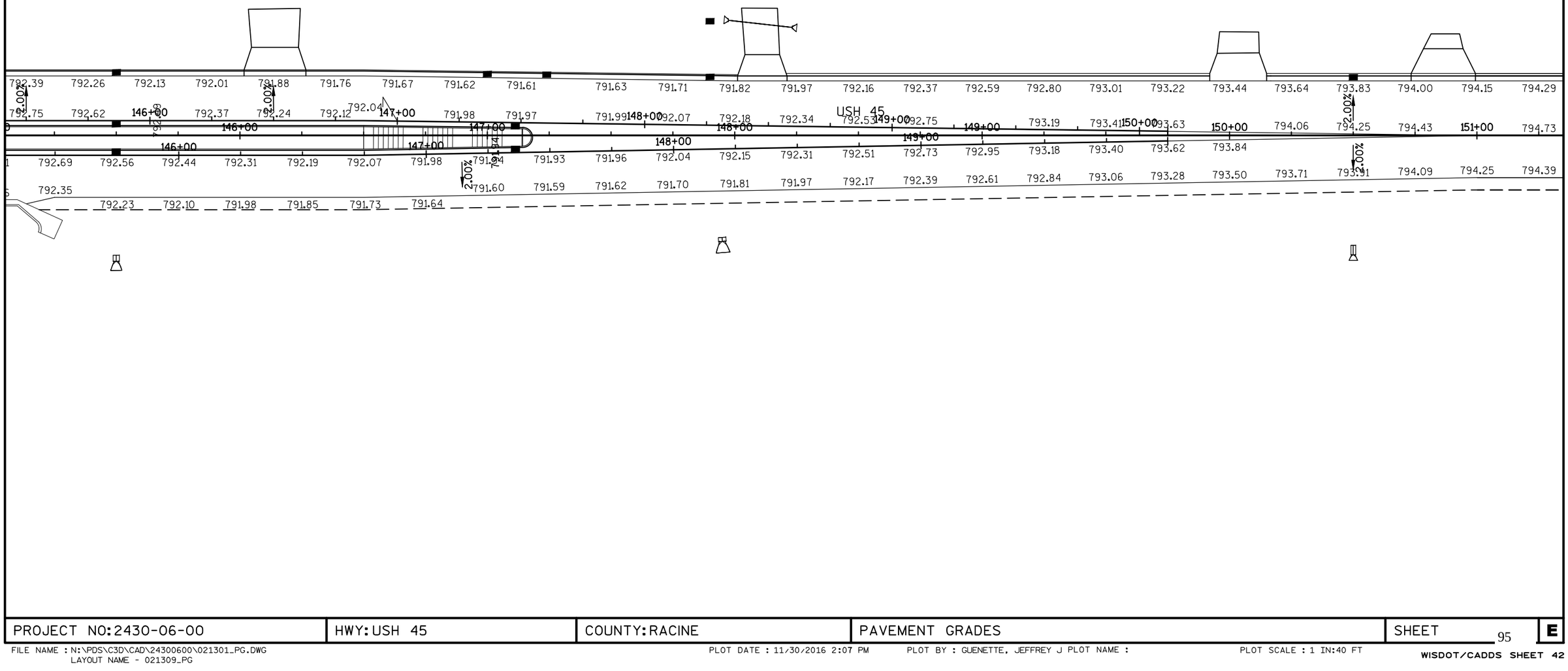
N



PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 94	E

2

N



PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 95	E

N

2

5	794.29	794.41	794.51	794.60	794.66	794.72	794.75	794.77	794.77	794.76	794.72	794.68	794.61	794.53	794.43	794.31	794.18	794.06	793.93	793.81	793.68	793.52	793.35	793.15	792.94
0	794.73	794.85	794.95	**152+00**	795.10	795.16	795.19	**153+00**	795.21	795.20	795.16	**154+00**	795.05	794.97	794.87	**155+00**	794.62	794.50	794.37	**156+00**	794.12	793.96	793.79	**157+00**	793.38
				795.04				795.21				795.12				794.75				794.25				793.59	
5	794.39	794.51	794.61	794.70	794.76	794.82	794.85	794.87	794.87	794.86	794.82	794.78	794.71	794.63	794.53	794.41	794.29	794.16	794.04	793.91	793.78	793.62	793.45	793.25	793.04

USH 45

2.00%

2.00%

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 96	E

2

N

792.94 792.71 792.46 792.19 791.89 791.58 791.25 790.90 790.54 790.15 789.74 789.31 788.86 788.40 787.91 787.41 786.89 786.38 785.86 785.35 784.84 784.36 783.88 783.38 782.88

USH 45

2.00%

793.38 793.15 792.90 **158+00** 792.33 792.02 791.69 **159+00** 790.98 790.59 790.18 **160+00** 789.30 788.84 788.35 **161+00** 787.33 786.82 786.30 **162+00** 785.27 784.75 784.24 **163+00** 783.22

792.63 791.34 789.75 787.85 785.79 783.72

2.00%

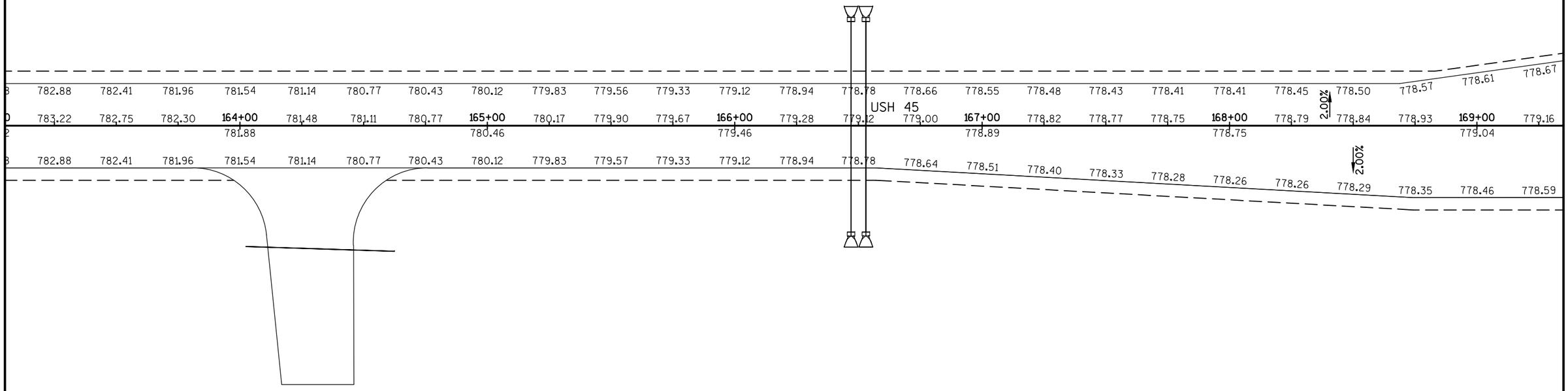
793.04 792.81 792.56 792.29 792.00 791.68 791.35 791.01 790.64 790.25 789.84 789.41 788.97 788.50 788.01 787.51 786.99 786.48 785.96 785.45 784.93 784.42 783.90 783.38 782.88

FIELD ACCESS

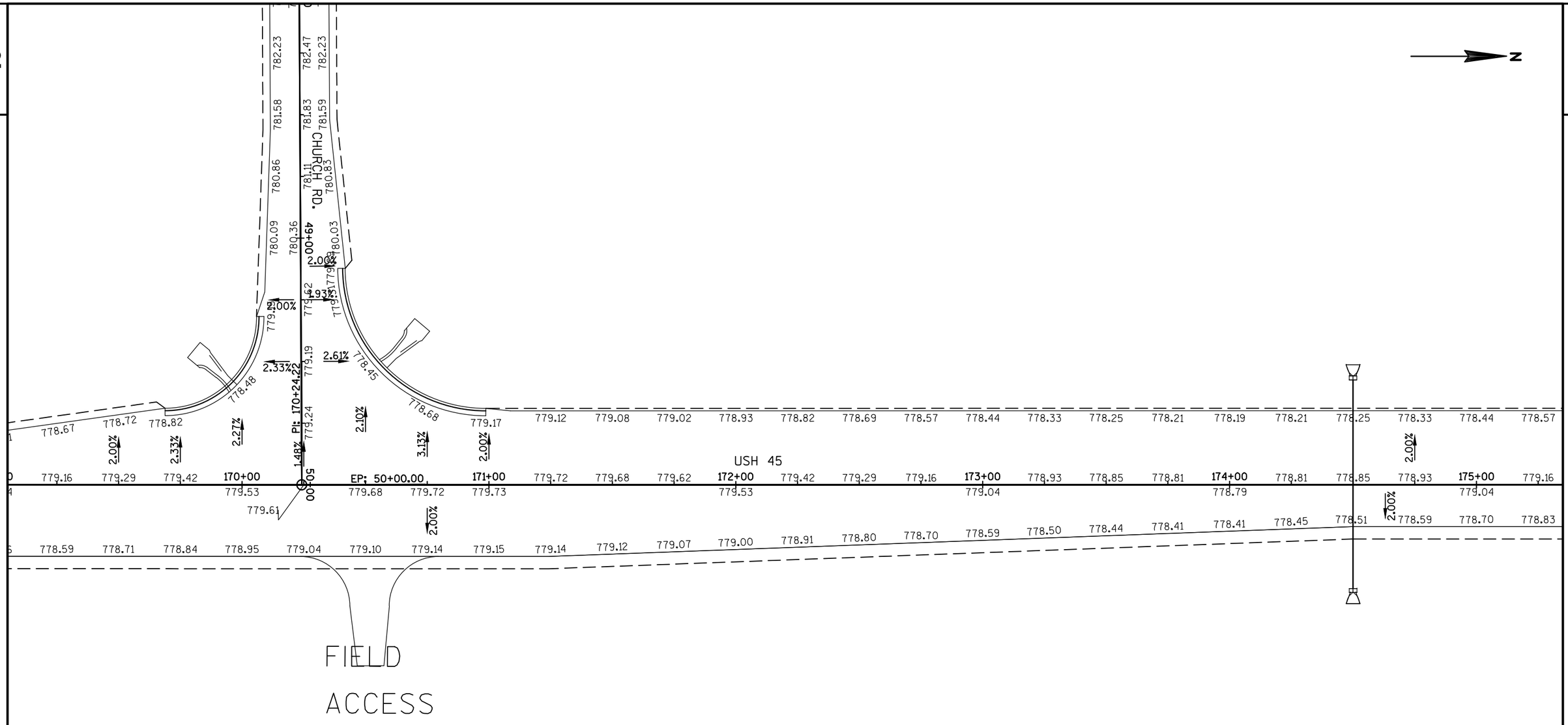
PROJECT NO:2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 97	E

N

2



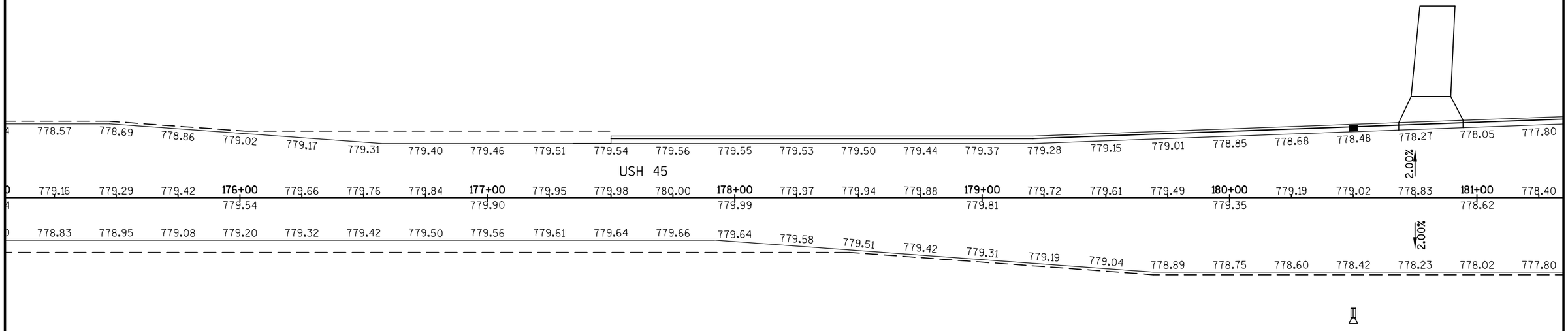
PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 98	E



PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 99	E

2

N



PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 100	E

2

N

777.80 777.54 777.26 776.97 776.66 776.33 776.00 775.66 775.30 774.92 774.52 774.11 773.68 773.26 772.84 772.42 772.00 771.57 771.15 770.73 770.32 769.94 769.58 769.24 768.93

2.00% 2.00% 2.00%

USH 45

778.40 778.15 777.89 182+00 777.32 777.01 776.68 183+00 775.98 775.60 BP: 50+00.00 184+00 774.36 773.94 773.52 185+00 772.68 772.25 771.83 186+00 771.00 770.62 770.26 187+00 769.61

777.62 776.34 775.20 774.78 773.10 771.41 769.92

2.03% 2.00% 2.00%

777.80 777.55 777.29 777.02 776.72 776.41 776.20 775.60 775.30 775.04 774.63 774.23 773.84 773.44 773.05 772.66 772.24 771.81 771.38 771.00 770.63 770.28 769.92 769.58 769.27

775.33 774.78 774.49 774.34

52ND RD.

0.27% 1.89%

774.70 774.22 774.06 774.03 773.67 773.47 773.74 773.47

1.19% 2.00% 51+00 2.00%

773.26 773.01 772.98 772.78 772.55 772.55 772.38 772.38

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 101	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021301_PG.DWG
LAYOUT NAME - 021315_PG

PLOT DATE : 11/30/2016 2:08 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:40 FT

2

N

768.93 768.65 768.39 768.16 767.96 767.79 767.64 767.52 767.42 767.34 767.30 767.28 767.28 767.31 767.36 767.43 767.52 767.64 767.79 767.96 768.15 768.38 768.62 768.89

USH 45

2.00%

769.61 769.33 769.07 **188+00** 768.63 768.45 768.29 **189+00** 768.05 767.97 767.91 **190+00** 767.88 767.90 767.94 **191+00** 768.10 768.22 768.37 **192+00** 768.73 768.96 769.20 **193+00** 769.76

768.84 768.16 767.88 768.01 768.54 769.47

769.27 768.99 768.73 768.46 768.21 767.99 767.79 767.62 767.47 767.37 767.31 767.28 767.28 767.30 767.34 767.41 767.50 767.62 767.77 767.94 768.14 768.29 768.99 769.25

768.89 768.63 768.40

2.00% 2.46% 2.63% 1.73% 1.82%

C-51-65

768.10 768.44

2.63%

SAVAGE RD.

769.22 768.87

1.85%

769.97 769.36 768.34 769.80

1.94%

2.07%

770.19 770.43 **51+00** 770.15

2.00% 2.00%

770.90 771.19 770.93

771.67 771.91 771.67

772.61 772.37

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 102 E

2

2

N

769.41 769.74 770.03 770.31 770.59 770.89 771.20 771.51 771.82 772.14 772.45 772.76 773.07 773.38 773.67 773.96 774.24 774.52 774.81 775.09 775.94 776.23

2.00% 2.00% 2.00%

USH 45

PI: 196+66.90

769.76 BP: 50+00.00 770.32 194+00 770.89 771.17 771.46 195+00 772.03 772.31 772.59 196+00 773.16 773.44 773.73 197+00 774.30 774.58 774.86 198+00 775.43 775.71 776.00 199+00 776.57

770.04 770.61 771.74 772.88 774.01 775.15 776.28

2.00%

1.82% 2.30% 2.02% 2.02% 2.02% 2.02% 2.00%

769.25 769.77 770.08 770.40 770.71 771.02 771.30 771.59 771.87 772.15 772.44 772.72 773.01 773.29 773.57 773.83 774.15 774.46 774.78 775.09 775.37 775.66 775.94 776.23

2.00%

769.21

769.22 768.87

1.85%

769.07 769.36

4%

770.43 770.15

51+00

2.00%

771.19 770.93

771.91 771.67

772.61 772.37

S. SAVAGE RD.

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 103	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021301_PG.DWG
LAYOUT NAME - 021317_PG

PLOT DATE : 11/30/2016 2:08 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

N

2

FIELD ACCESS

USH 45

4	776.23	776.51	776.79	777.08	777.36	777.64	777.93	778.21	778.50	778.78	779.06	779.35	779.63	779.91	780.20	780.48	780.77	781.05	781.33	781.62	781.90	782.18	782.47	782.75	783.04
0	776.57	776.85	777.13	200+00	777.70	777.98	778.27	201+00	778.84	779.12	779.40	202+00	779.97	780.25	780.54	203+00	781.11	781.39	781.67	204+00	782.24	782.52	782.81	205+00	783.38
8				777.42				778.55				779.69				780.82				781.96				783.09	
4	776.23	776.51	776.79	777.08	777.36	777.64	777.93	778.21	778.50	778.78	779.06	779.35	779.63	779.91	780.20	780.48	780.77	781.05	781.33	781.62	781.90	782.18	782.47	782.75	783.04

2.00%

2.00%

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 104 E

N

2

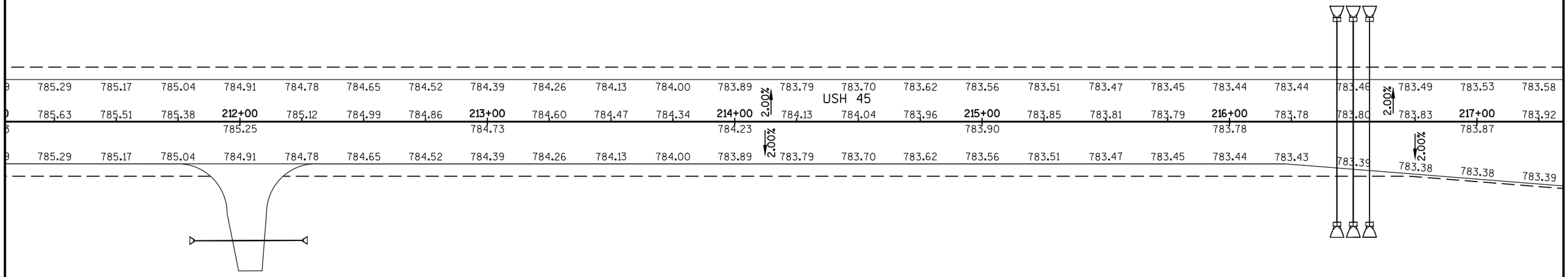
USH 45

5	783.04	783.32	783.59	783.85	784.09	784.32	784.52	784.71	784.88	785.04	785.18	785.30	785.40	785.48	785.55	785.60	785.64	785.65	785.65	785.64				785.48	785.39	785.29
0	783.38	783.66	783.93	206+00	784.43	784.66	784.86	207+00	785.22	785.38	785.52	208+00	785.74	785.82	785.89	209+00	785.98	785.99	785.99	210+00	785.94	785.89	2.00%	785.82	211+00	785.63
9				784.19				785.05				785.64				785.94				785.98					785.73	
5	783.04	783.32	783.59	783.85	784.09	784.32	784.52	784.71	784.88	785.04	785.18	785.30	785.40	785.48	785.55	785.60	785.64	785.65	785.65	785.64	785.60	785.55	2.00%	785.48	785.39	785.29

PROJECT NO:2430-06-00	HWY:USH 45	COUNTY:RACINE	PAVEMENT GRADES	SHEET 105 E

2

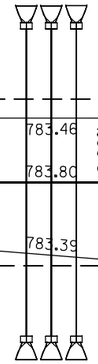
N



PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 106	E

2

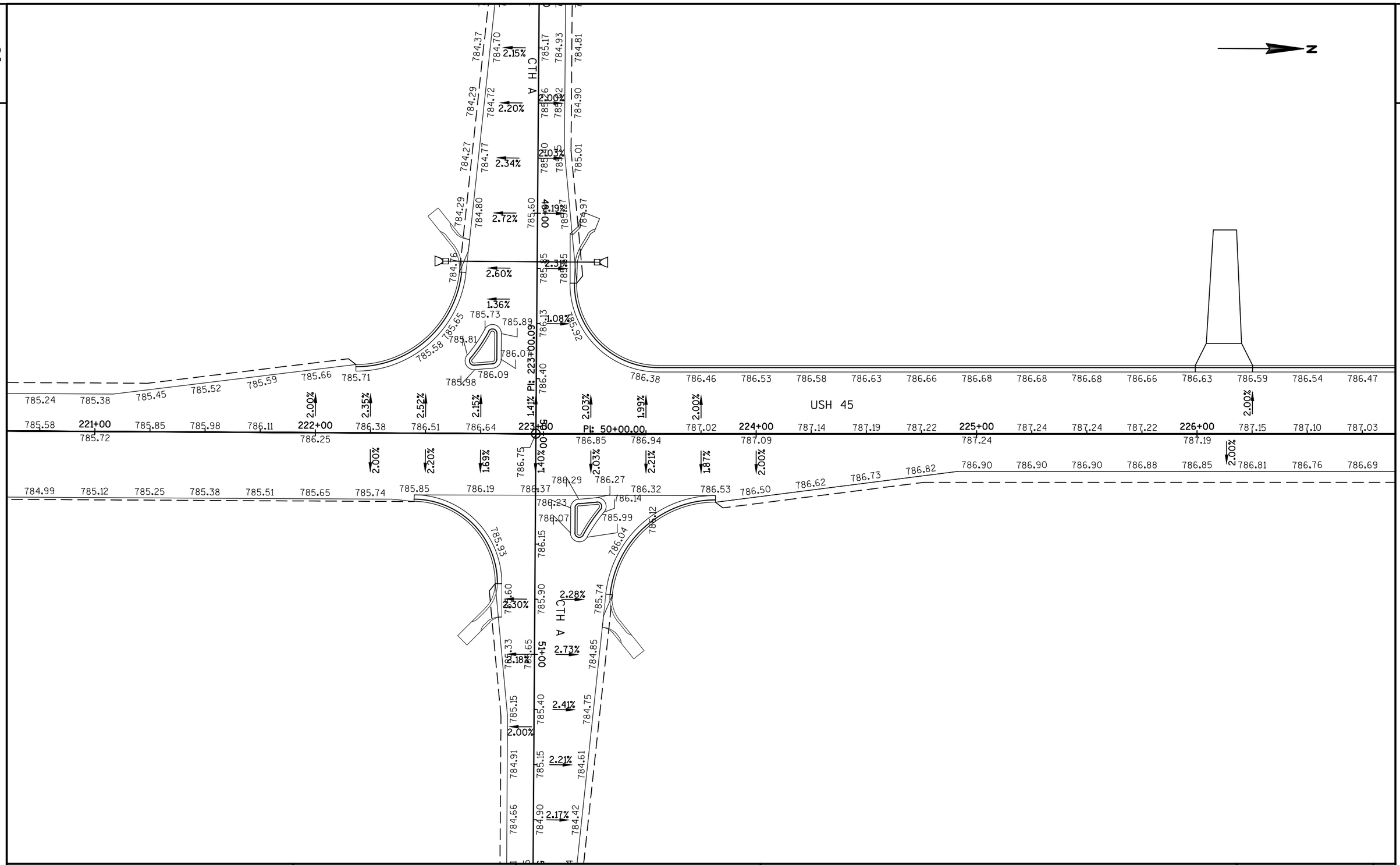
N



																							784.85			
783.62	783.56	783.51	783.47	783.45	783.44	783.44	783.46	2.00%	783.49	783.53	783.58	783.65	783.73	783.83	783.93	784.05	784.19	784.32	784.45	784.58	784.72	2.00%	784.98	785.11	785.24
783.96	215+00	783.85	783.81	783.79	216+00	783.78	783.80		783.83	217+00	783.92	783.99	784.07	218+00	784.27	784.39	784.53	219+00	784.79	784.92	785.06	220+00	785.32	785.45	785.58
					783.78					783.87				784.17				784.66				785.19			
783.62	783.56	783.51	783.47	783.45	783.44	783.43	783.39	2.00%	783.38	783.38	783.39	783.42	783.46	783.57	783.67	783.79	783.93	784.06	784.19	784.32	784.46	784.59	784.72	784.85	784.99

USH 45

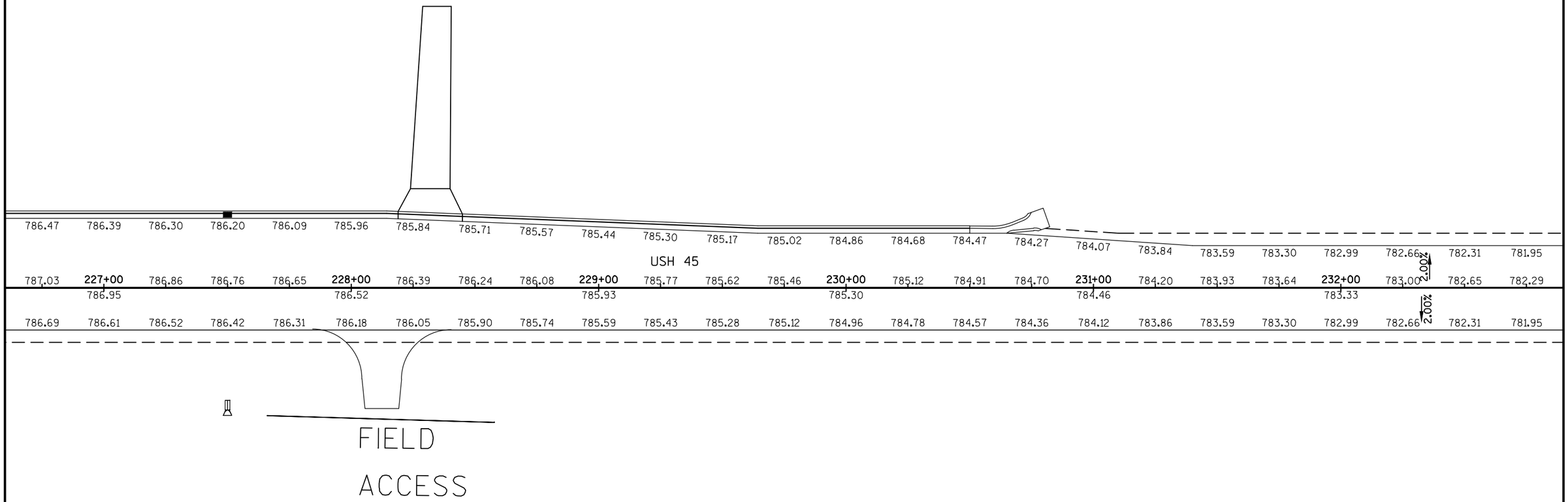
PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 107	E


N
CTH A
USH 45
PI: 223+00.09
PI: 50+00.00
221+00
222+00
223+00
224+00
225+00
226+00
40+00
51+00
2.15%
2.20%
2.34%
2.72%
2.31%
2.60%
1.36%
1.08%
2.00%
2.35%
2.52%
2.15%
1.41%
2.03%
1.99%
2.00%
2.00%
2.00%
2.20%
1.69%
1.40%
2.03%
2.21%
1.87%
2.00%
2.00%
2.30%
2.28%
2.18%
2.73%
2.00%
2.41%
2.21%
2.17%

2

N

2



PROJECT NO:2430-06-00	HWY:USH 45	COUNTY:RACINE	PAVEMENT GRADES	SHEET 109	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021301_PG.DWG
LAYOUT NAME - 021323_PG

PLOT DATE : 11/30/2016 2:09 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

N

2

USH 45

781.95	781.56	781.16	780.74	780.31	779.85	779.38	778.88	778.37	777.84	777.30	776.73	776.15	775.56	774.96	774.37	773.82	773.30	772.82	772.38	771.98	771.62	771.31	771.02	770.78
782.29	**233+00**	781.50	781.08	780.65	**234+00**	779.72	779.22	778.71	**235+00**	777.64	777.07	776.49	**236+00**	775.30	774.71	774.16	**237+00**	773.16	772.72	772.32	**238+00**	771.65	771.36	771.12
	781.90				780.19				778.18				775.90				773.64				771.96			
781.95	781.56	781.16	780.74	780.31	779.85	779.38	778.88	778.37	777.84	777.30	776.73	776.15	775.56	774.96	774.37	773.82	773.30	772.82	772.38	771.98	771.63	771.31	771.02	770.78

2.00%

2.00%

FIELD ACCESS

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 110 E

N

2

770.78	770.58	770.42	770.30	770.22	770.17	770.17	770.20	770.28	770.39	770.55	770.74	770.98	771.25	771.56	771.91	772.30	772.69	773.06	773.42	773.77	774.09	774.40	774.68	774.95
771.12	**239+00**	770.76	770.64	770.56	**240+00**	770.51	770.54	770.62	**241+00**	770.89	771.08	771.32	**242+00**	771.90	772.25	772.64	**243+00**	773.40	773.76	774.11	**244+00**	774.74	775.02	775.29
	770.92				770.51				770.73				771.59				773.02				774.43			
770.78	770.58	770.42	770.30	770.22	770.17	770.17	770.20	770.28	770.39	770.55	770.74	770.98	771.25	771.56	771.91	772.30	772.69	773.06	773.42	773.77	774.09	774.40	774.68	774.95

USH 45

2.00%

2.00%

C-51-67

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 111	E

2

N

FIELD

ACCESS

USH 45

Rt: 249+36.92

774.95	775.21	775.44	775.66	775.85	776.03	776.20	776.34	776.46	776.57	776.66	776.73	776.79	776.82	776.84	776.84	776.82	776.78	776.72	776.65	776.56	776.45	776.32	776.18	776.01
775.29	**245+00**	775.78	776.00	776.19	**246+00**	776.54	776.68	776.80	**247+00**	777.00	777.07	777.13	**248+00**	777.18	777.18	777.16	**249+00**	777.06	776.99	776.90	**250+00**	2.00%	776.66	776.52	776.35
	775.55				776.37				776.91				777.16				777.12				776.79				

774.95	775.21	775.42	775.60	775.77	775.93	776.10	776.24	776.36	776.47	776.56	776.63	776.69	776.72	776.74	776.74	776.72	776.68	776.62	776.55	776.43	776.37	2.00%	776.30	776.18	776.01

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 112	E

2

N

2

776.01 775.83 775.63 775.41 775.18 774.92 774.66 774.40 774.13 773.87 773.61 773.34 773.08 772.78 772.49 772.19 771.90 771.67 771.40 771.12 770.83 770.53 770.22 769.89 769.56

776.35 **251+00** 775.97 775.75 775.52 **252+00** 775.00 774.74 774.47 **253+00** 773.95 773.68 773.42 **254+00** 772.89 772.63 772.37 **255+00** 771.84 771.56 771.27 **256+00** 770.66 770.33 770.00

776.17 775.26 774.21 773.16 772.11 770.97

2.00%

776.01 775.83 775.63 775.41 775.18 774.92 774.66 774.40 774.13 773.87 773.61 773.34 773.08 772.82 772.55 772.29 772.03 771.77 771.50 771.22 770.93 770.63 770.32 769.99 769.66

2.00%

USH 45

FIELD ACCESS

FIELD ACCESS

PROJECT NO:2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 113	E

N

2

	769.56	769.22	768.88	768.55	768.20	767.84	767.44	767.03	766.61	766.19	765.75	765.32	764.88	764.45	764.01	763.58	763.14	762.71	762.28	761.84	761.41	760.97	760.56	760.20	759.87
2.00%									USH 45												2.00%				
770.00	257+00	769.30	768.94	768.56	258+00	767.78	767.37	766.95	259+00	766.09	765.66	765.22	260+00	764.35	763.92	763.48	261+00	762.62	762.18	761.75		262+00	760.90	760.54	760.21
		769.66				768.18				766.52				764.79				763.05					761.31		
2.00%																					2.00%				
	769.66	769.32	768.96	768.60	768.22	767.84	767.44	767.03	766.61	766.19	765.75	765.32	764.88	764.45	764.01	763.58	763.14	762.71	762.28	761.84	761.41	760.97	760.56	760.20	759.87

FIELD ACCESS

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 114 E

2

N

2

FIELD ACCESS

USH 45

759.87	759.60	759.37	759.19	759.05	758.96	758.89		758.95	759.04	759.14	759.36	759.58	759.86	760.17	760.54	760.95	761.40	761.90	762.45	763.04	763.67		764.33
760.21	**263+00**	759.71	759.53	759.39	**264+00**	759.25	759.25	759.29	**265+00**	759.52	759.70	759.92	**266+00**	760.51	760.88	761.29	**267+00**	762.24	762.79	763.38	**268+00**		764.67
	759.94				759.30				759.38				760.20				761.74				764.01		
759.87	759.60	759.37	759.19	759.05	758.96	758.91	758.91	758.95	759.04	759.18	759.36	759.59	759.86	760.17	760.54	760.95	761.40	761.90	762.45	763.04	763.67		764.33

4.00%

2.00%

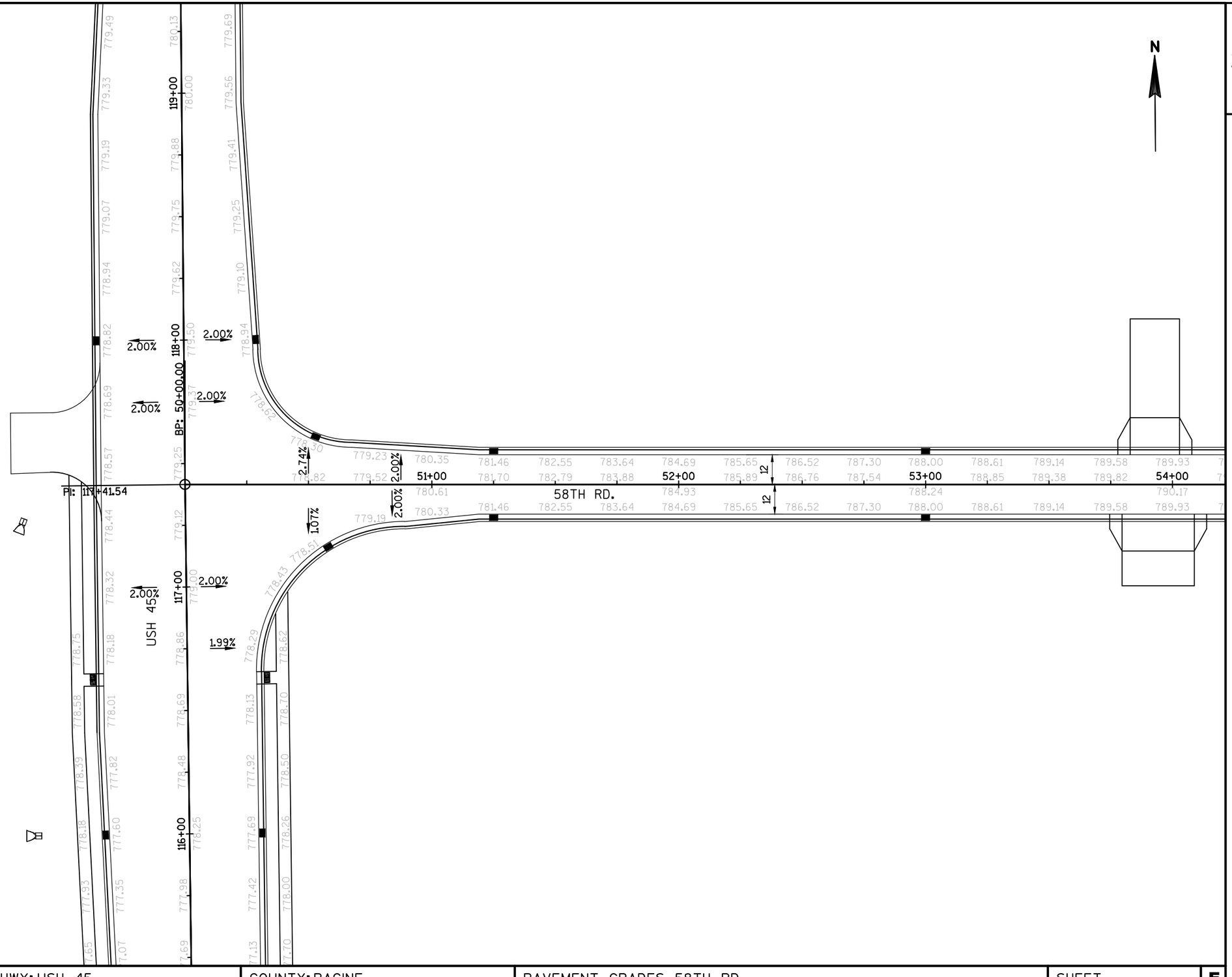
2.00%

C-51-23

FIELD ACCESS

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES	SHEET 115	E

2



PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES 58TH RD	SHEET 116	E

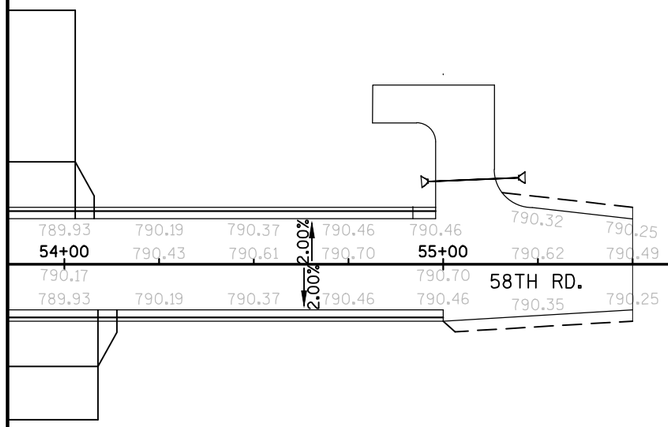
FILE NAME : N:\PDS\C3D\CAD\24300600\021330_PG.DWG
LAYOUT NAME - 021230_PG

PLOT DATE : 11/30/2016 2:12 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N



54+00 55+00 56+00 57+00 58+00 59+00 60+00

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES 58TH RD	SHEET 117	E

2

2

N

CTH C

43+00 44+00 45+00 46+00 47+00 48+00

792.90 792.05 792.20 792.36 792.54 792.73 792.91 793.10 793.28 793.13 793.53 793.52 793.72 793.92 794.11 793.49 793.86 794.16 794.48 794.70 794.80 794.44 794.06 793.69 793.31

793.75 793.80 793.79 793.72 793.60 793.45 793.30 793.19 794.09 794.15 794.08 793.96 793.84 793.55

792.34 792.54 794.07 794.16 794.18 794.11 793.97 793.74 793.66

2.00% 2.00% 1.97% 0.80% 0.52% 1.73% 2.93% 3.85% 2.56% 1.27% 0.03% 1.32%

MATCH LINE STA. 48+25

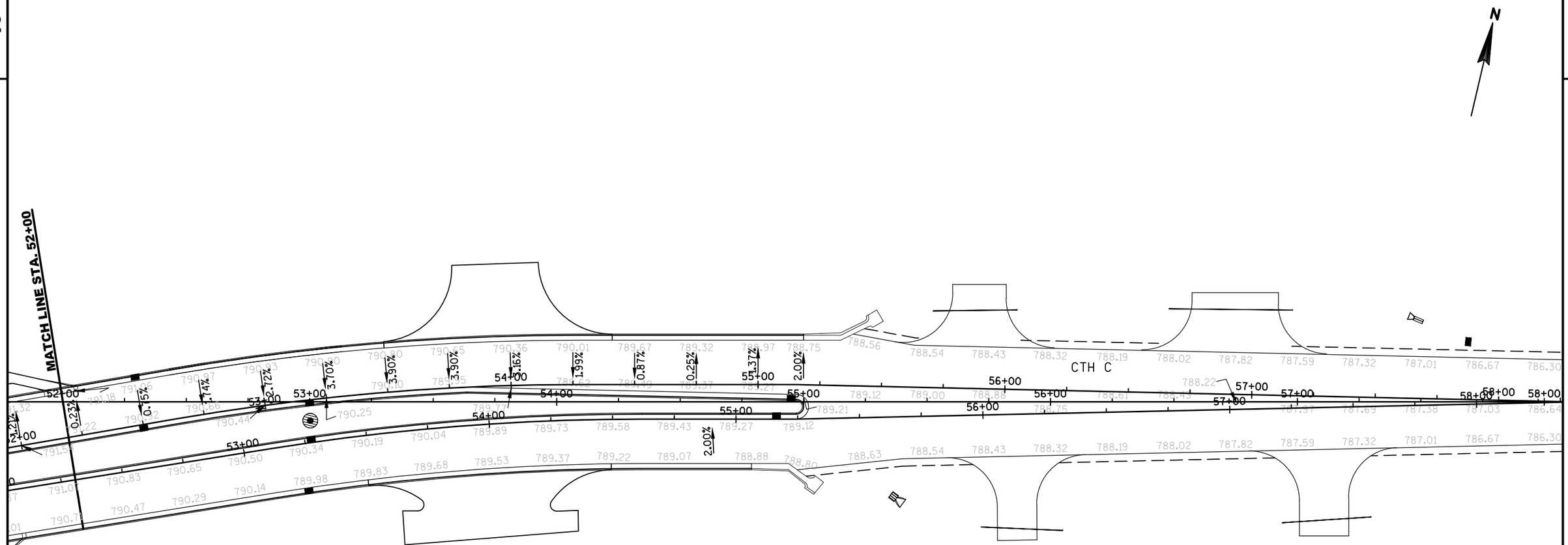
PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES CTH C	SHEET 118	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021330_PG.DWG
LAYOUT NAME - 021232_PG

PLOT DATE : 11/30/2016 2:12 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

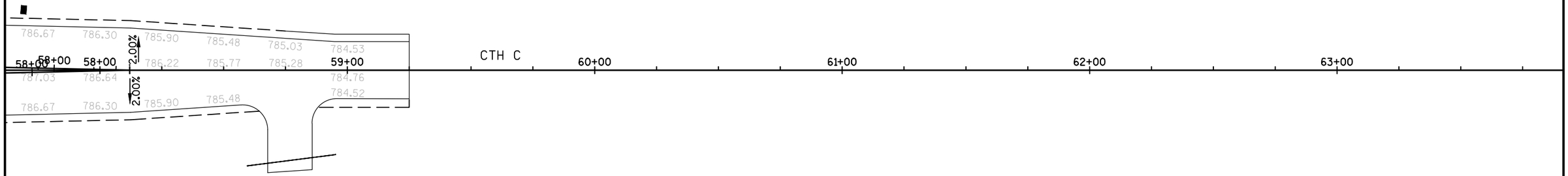
2



PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES CTH C	SHEET 119	E

2

N



PROJECT NO:2430-06-00	HWY:USH 45	COUNTY:RACINE	PAVEMENT GRADES CTH C	SHEET 120	E

FILE NAME : N:\PDS\C3D\CAD\24300600\021330_PG.DWG
LAYOUT NAME - 021234_PG

PLOT DATE : 11/30/2016 2:12 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:40 FT

2

N

CHURCH RD.

USH 45

FIELD ACCESS

46+00 47+00 48+00 49+00 50+00

EP: 50+00.00

P.I. 170+24.22

172+00 171+00 170+00 169+00

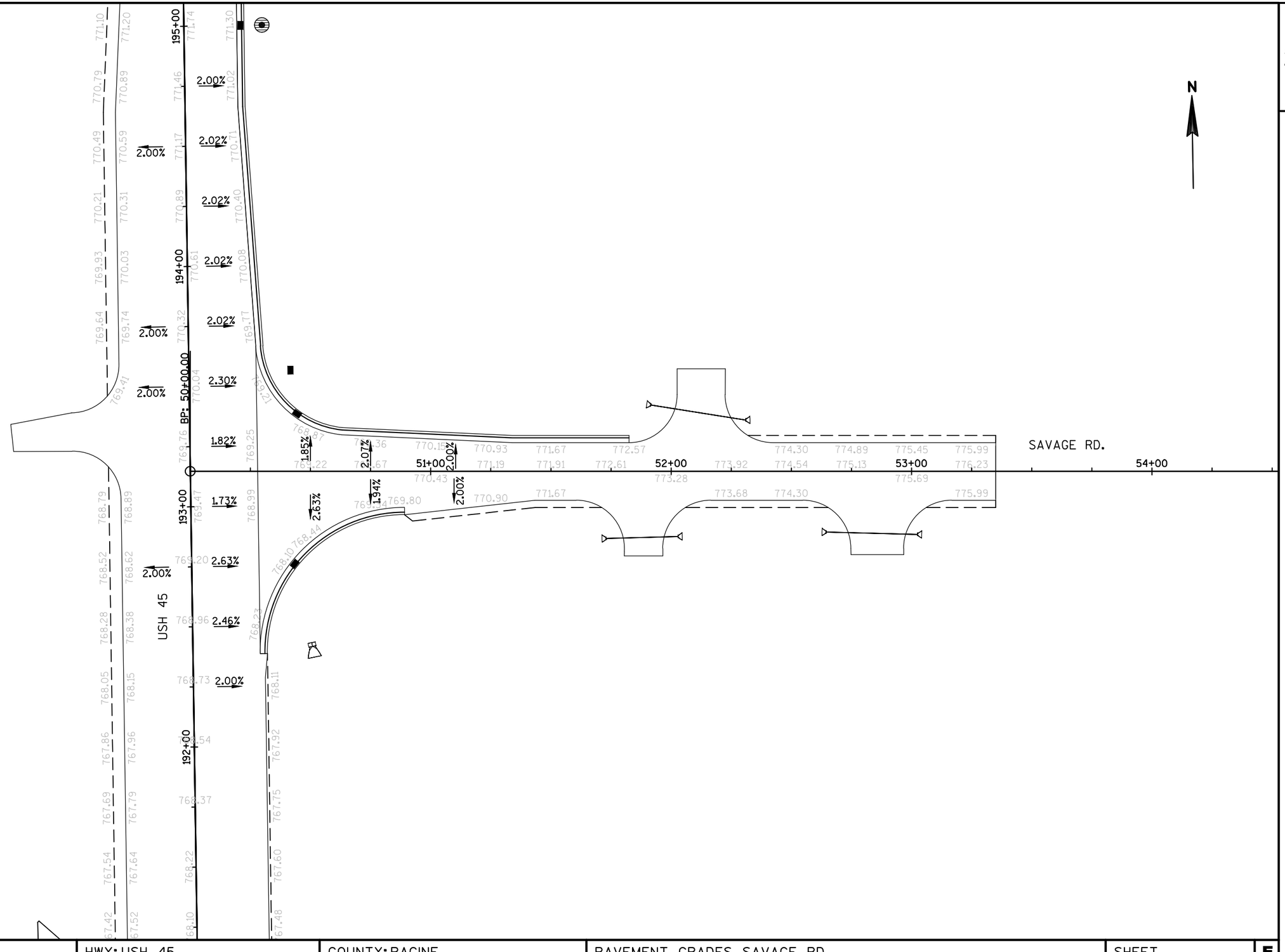
784.90 784.69 784.45 784.14 783.76 783.32 782.81 782.23 781.58 780.86 780.09 779.74 779.53 779.62 779.68 779.72 779.73 779.68 779.72 779.68 779.61 779.53 779.04 778.93 778.75 778.72 778.67 778.61 778.51 778.50 778.84 779.00 779.07 779.12 779.14 779.15 779.14 779.10 779.04 778.95 778.84 778.71 778.59 778.46 778.35 778.29

784.90 784.69 784.14 783.76 783.32 782.81 782.23 781.83 781.11 780.36 779.62 779.19 779.24

784.90 784.69 784.38 784.00 783.56 782.47 781.83 781.11 780.83 780.03 779.31 778.68 778.45

784.90 784.69 784.45 784.14 783.76 783.32 782.81 782.23 781.58 780.86 780.09 779.74

2



PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES SAVAGE RD	SHEET 122	E

2

N

USH 45

CTH A

USH 45

PI: 223+00.09 1.41%

PI: 50+00.00

46+00 47+00 48+00 49+00 50+00 51+00 52+00

223+00 224+00 222+00

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PAVEMENT GRADES CTH A	SHEET 123	E

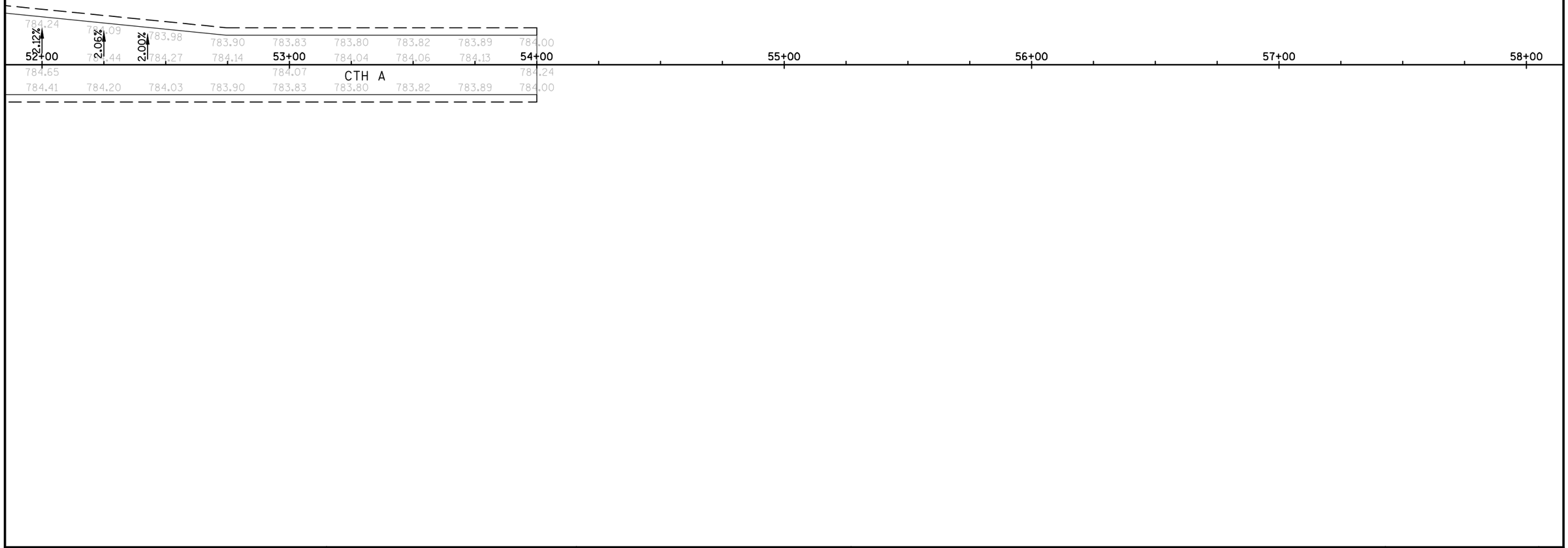
FILE NAME : N:\PDS\C3D\CAD\24300600\021330_PG.DWG
LAYOUT NAME - 021238_PG

PLOT DATE : 11/30/2016 2:12 PM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N



PROJECT NO:2430-06-00	HWY:USH 45	COUNTY:RACINE	PAVEMENT GRADES CTH A	SHEET 124	E

2

N

TR. W. BR. OF
ROOT RIVER CANAL

SEE CONSTRUCTION SHEETS
FOR TEMPORARY DIVERSION
TRENCH DETAILS

TLE

TLE

TLE

R/W

98 100 102 C-51-64 104 USH 45 106 108 110 112

USH 45

R/W

TLE

TLE

SEE STRUCTURE PLANS FOR
DETAIL OF PERMANENT RIPRAP
PLACEMENT AROUND CULVERT

LEGEND

- EROSION MAT CLASS I, TYPE A
- EROSION MAT URBAN CLASS I
- SILT FENCE
- HEAVY DUTY SILT FENCE
- MEDIUM RIPRAP
- STONE DITCH CHECK
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- ROCK BAG
- WETLAND

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	EROSION CONTROL	SHEET 125	E

2

N

TLE

117+41.54

R/W

SIGN

ANT.

TLE

112 114 116 118 50+00.00 120 122 124 126

USH 45

USH 45

USH 45

R/W

R/W

TLE

TLE

52nd CT.

58TH RD.

R/W

R/W

TLE

TLE

54

SIGN

POOL

W

LEGEND

- ###### EROSION MAT CLASS I, TYPE A
- EROSION MAT URBAN CLASS I
- SILT FENCE
- X. X. X. HEAVY DUTY SILT FENCE
- MEDIUM RIPRAP
- STONE DITCH CHECK
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- ROCK BAG
- WETLAND

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	EROSION CONTROL	SHEET 126	E

FILE NAME : N:\PDS\C3D\CAD\24300600\022001_EC.DWG
LAYOUT NAME - 022002_EC

PLOT DATE : 1/12/2017 2:31 PM PLOT BY : KRMPOTICH, JACOB L PLOT NAME :

PLOT SCALE : 1 IN:100 FT

2

N

TLE

R/W

USH 45

CTH C

SUBSTATION

CANOPY

FILLER CAPS

SIGN

INL

FOOTBRIDGE

46

48

50+00.00

54

128

130

132

134

136

138

140

142

LEGEND

- EROSION MAT CLASS I, TYPE A
- EROSION MAT URBAN CLASS I
- SILT FENCE
- HEAVY DUTY SILT FENCE
- MEDIUM RIPRAP
- STONE DITCH CHECK
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- ROCK BAG
- WETLAND

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	EROSION CONTROL	SHEET 127	E

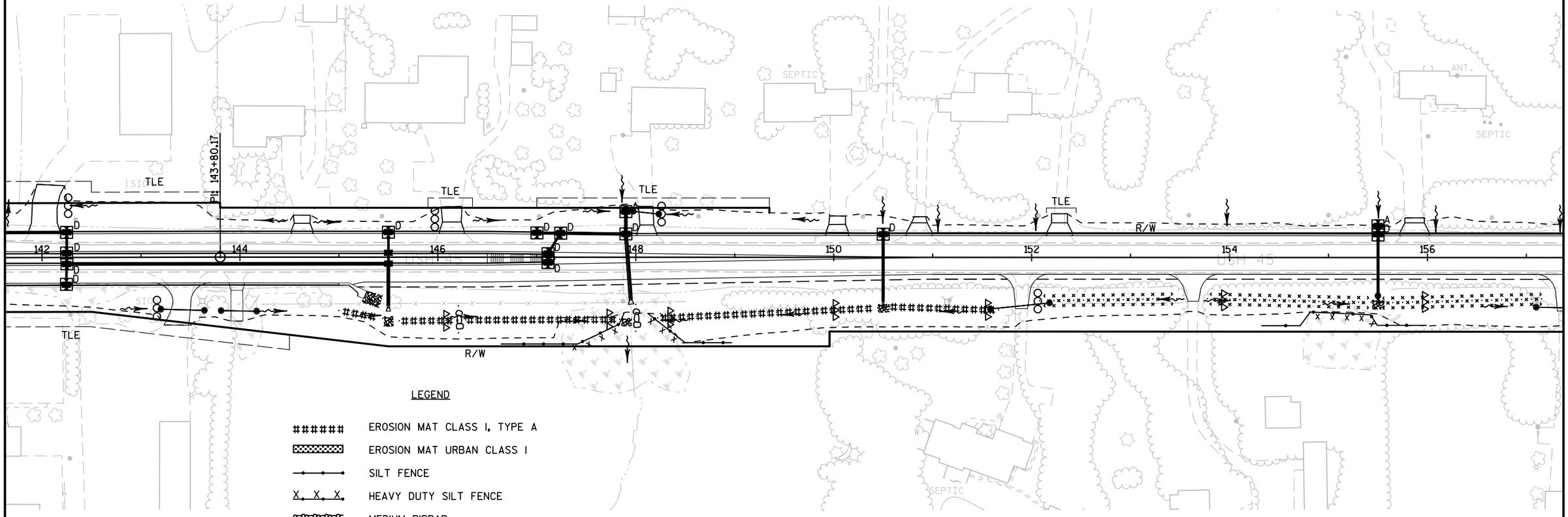
FILE NAME : N:\PDS\C3D\CAD\24300600\022001_EC.DWG
LAYOUT NAME - 022003_EC

PLOT DATE : 1/12/2017 2:31 PM PLOT BY : KRMPOTICH, JACOB L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N



LEGEND

#######	EROSION MAT CLASS I, TYPE A
	EROSION MAT URBAN CLASS I
	SILT FENCE
X X X	HEAVY DUTY SILT FENCE
	MEDIUM RIPRAP
	STONE DITCH CHECK
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE CHECK
	SURFACE WATER FLOW
	SLOPE INTERCEPT
	ROCK BAG
	WETLAND

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	EROSION CONTROL	SHEET 128	E

2

N

46

CHURCH RD.

PI: 170+24.22

EP: 50+00.00

R/W

R/W

R/W

R/W

TLE

TLE

TLE

TLE

158

160

162

164

166

168

170

172

USH 45

USH 45

USH 45

FIELD ACCESS

FIELD ACCESS

SIGN

WALLS

WALLS

ANT.

LEGEND

######	EROSION MAT CLASS I, TYPE A
	EROSION MAT URBAN CLASS I
	SILT FENCE
X X X	HEAVY DUTY SILT FENCE
	MEDIUM RIPRAP
	STONE DITCH CHECK
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE CHECK
	SURFACE WATER FLOW
	SLOPE INTERCEPT
	ROCK BAG
	WETLAND

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	EROSION CONTROL	SHEET 129	E

2

N

SEPTIC

SEPTIC

SEPTIC

FEEDER

L7

TLE

R/W

TLE

TLE

TLE

D

D

D

172 174 176 178 USH 45 180 USH 45 182 184 186

STA. 50+00.00

45

TLE

R/W

R/W

52ND. RD.

52

54

ANT.

FOOTBRIDGE

SEPTIC

SEPTIC

SEPTIC

POST

LEGEND

- EROSION MAT CLASS I, TYPE A
- EROSION MAT URBAN CLASS I
- SILT FENCE
- HEAVY DUTY SILT FENCE
- MEDIUM RIPRAP
- STONE DITCH CHECK
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- ROCK BAG
- WETLAND

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	EROSION CONTROL	SHEET 130	E

FILE NAME : N:\PDS\C3D\CAD\24300600\022001_EC.DWG
LAYOUT NAME - 022006_EC

PLOT DATE : 1/12/2017 2:31 PM PLOT BY : KRMPOTICH, JACOB L PLOT NAME :

PLOT SCALE : 1 IN:100 FT

2

N

TR. W. BR. OF ROOT RIVER CANAL

TR. W. BR. OF ROOT RIVER CANAL

SEE CONSTRUCTION SHEETS FOR TEMPORARY DIVERSION TRENCH DETAILS

TLE

PROPOSED REALIGNMENT OF TR. W. BR. OF ROOT RIVER CANAL

R/W

P.I. 196+66.90

FIELD ACCESS

188 190 192 BP: 500+00.00 194 196 198 200 202

USH 45

C-51-65

SAVAGE RD.

TLE

SEE STRUCTURE PLANS FOR DETAIL OF PERMANENT RIPRAP PLACEMENT AROUND CULVERT

TLE

TLE

R/W

R/W

SEPTIC

POOL

ANT.

WALLS

52

54

LEGEND

- EROSION MAT CLASS I, TYPE A
- EROSION MAT URBAN CLASS I
- SILT FENCE
- HEAVY DUTY SILT FENCE
- MEDIUM RIPRAP
- STONE DITCH CHECK
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- ROCK BAG
- WETLAND

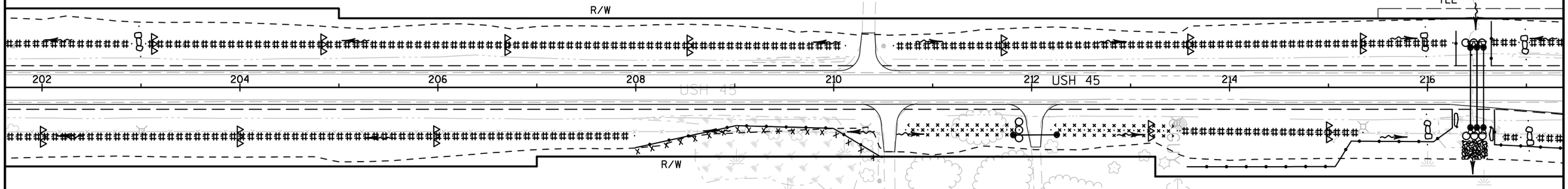
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	EROSION CONTROL	SHEET 131 E

FILE NAME : N:\PDS\C3D\CAD\24300600\022001_EC.DWG
LAYOUT NAME - 022007_EC

PLOT DATE : 1/12/2017 2:31 PM PLOT BY : KRMPOTICH, JACOB L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N



LEGEND

######	EROSION MAT CLASS I, TYPE A
	EROSION MAT URBAN CLASS I
	SILT FENCE
X X X	HEAVY DUTY SILT FENCE
	MEDIUM RIPRAP
	STONE DITCH CHECK
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE CHECK
	SURFACE WATER FLOW
	SLOPE INTERCEPT
	ROCK BAG
	WETLAND

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	EROSION CONTROL	SHEET 132	E

2

2

N

TLE

R/W

PI: 223+00.09

CTH A

USH 45

PI: 50+00.00

218 220 222 224 226 228 230 232

TANKS

SIGN

POOL

TLE

TLE

R/W

D

FIELD ACCESS

TLE

R/W

CTH A

TLE

46 48 52 54

LEGEND

- EROSION MAT CLASS I, TYPE A
- EROSION MAT URBAN CLASS I
- SILT FENCE
- HEAVY DUTY SILT FENCE
- MEDIUM RIPRAP
- STONE DITCH CHECK
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- ROCK BAG
- WETLAND

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	EROSION CONTROL	SHEET 133	E

FILE NAME : N:\PDS\C3D\CAD\24300600\022001_EC.DWG
LAYOUT NAME - 022009_EC

PLOT DATE : 1/12/2017 2:31 PM PLOT BY : KRMPOTICH, JACOB L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

TR. W. BR. OF
ROOT RIVER CANAL

SEE CONSTRUCTION SHEETS
FOR TEMPORARY DIVERSION
TRENCH DETAILS

R/W

232 234 236 238 240 244 246

USH 45

C-51-67

USH 45

FIELD
ACCESS

R/W

SEE STRUCTURE PLANS FOR
DETAIL OF PERMANENT RIPRAP
PLACEMENT AROUND CULVERT

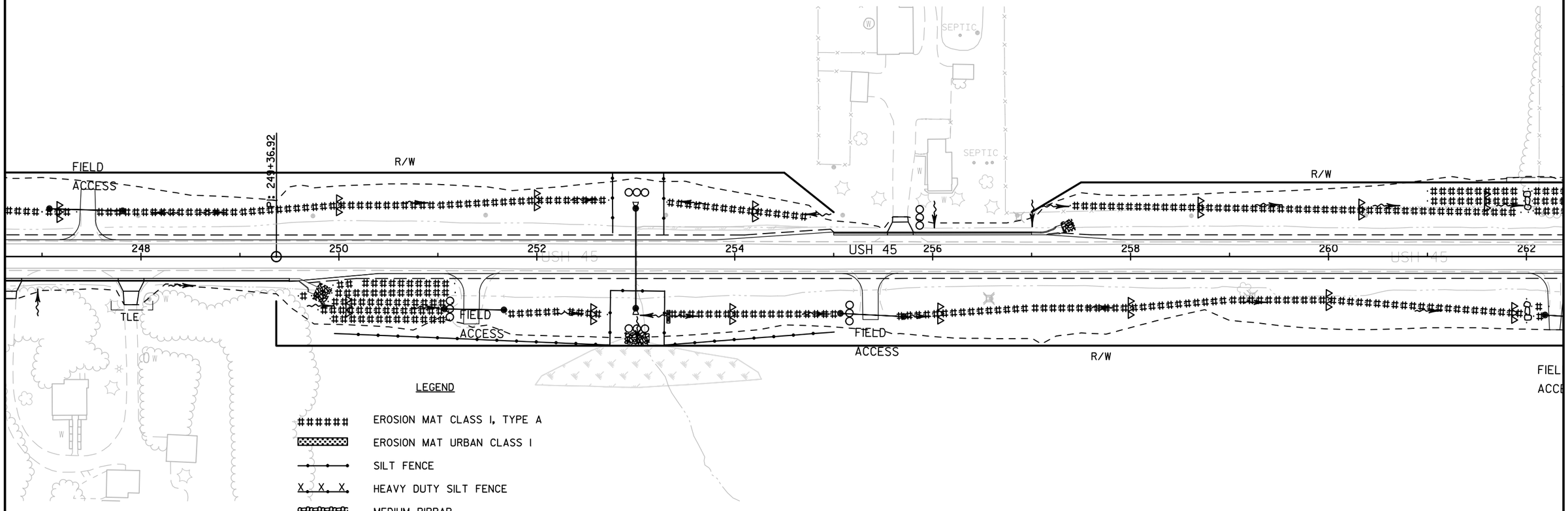
LEGEND

- EROSION MAT CLASS I, TYPE A
- EROSION MAT URBAN CLASS I
- SILT FENCE
- HEAVY DUTY SILT FENCE
- MEDIUM RIPRAP
- STONE DITCH CHECK
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- ROCK BAG
- WETLAND

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	EROSION CONTROL	SHEET 134	E

2

N



LEGEND

- EROSION MAT CLASS I, TYPE A
- EROSION MAT URBAN CLASS I
- SILT FENCE
- HEAVY DUTY SILT FENCE
- MEDIUM RIPRAP
- STONE DITCH CHECK
- INLET PROTECTION
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- ROCK BAG
- WETLAND

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	EROSION CONTROL	SHEET 135	E

2

N

TR. W. BR. OF
ROOT RIVER CANAL

SEE CONSTRUCTION SHEETS
FOR TEMPORARY DIVERSION
TRENCH DETAILS

TLE

R/W

262 264 USH 45 266 C-51-23 268 270 272 USH 274 276

PI: 275+48.01

PI: 275+71.72

SEPTIC

SEPTIC

SIGN

INL

SIGN

SIGN

SIGN

MH

STATE

STH 20

R/W

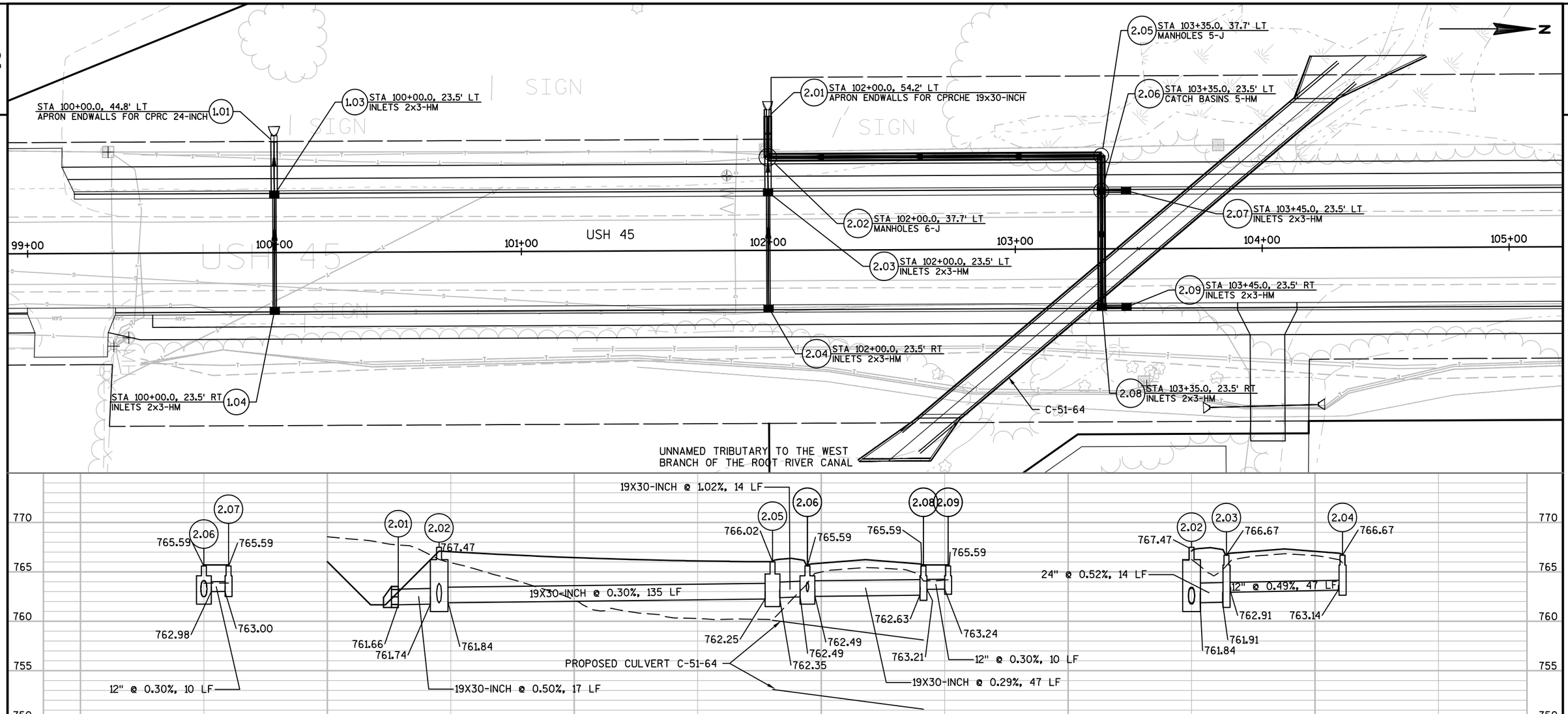
SEE STRUCTURE PLANS FOR
DETAIL OF PERMANENT RIPRAP
PLACEMENT AROUND CULVERT

PROPOSED REALIGNMENT OF
TR. W. BR. OF ROOT RIVER CANAL

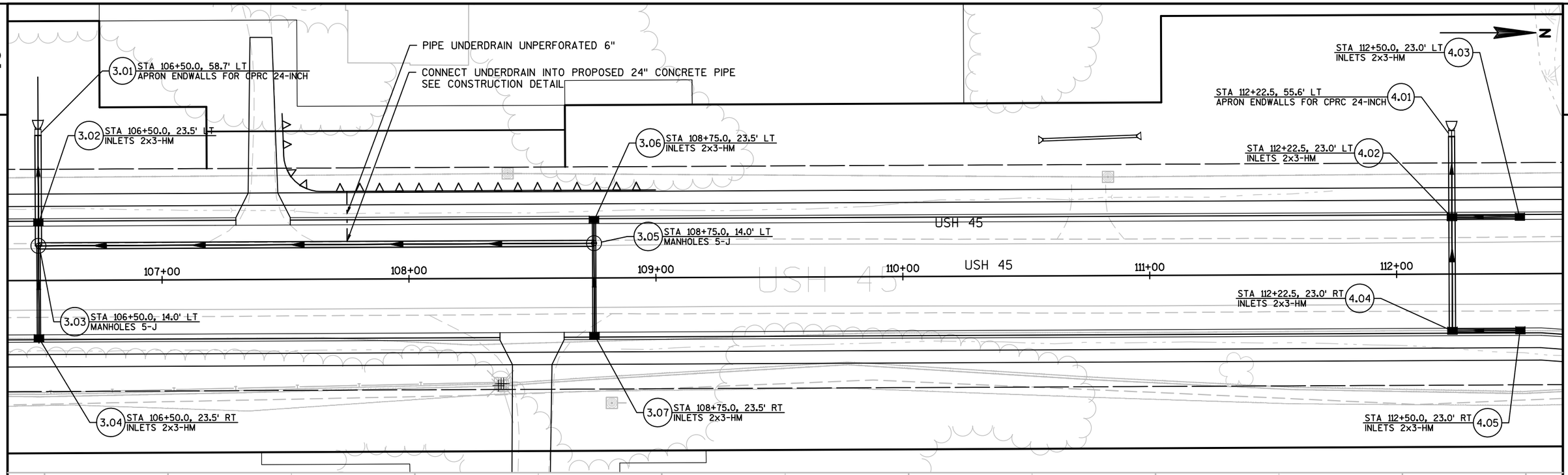
LEGEND

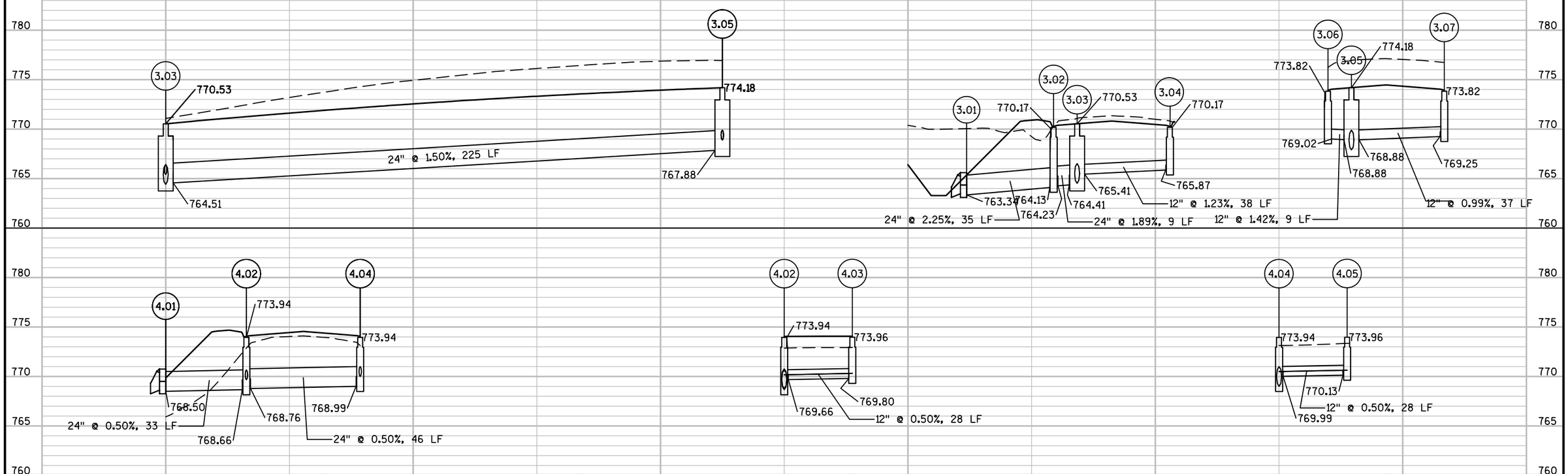
######	EROSION MAT CLASS I, TYPE A
	EROSION MAT URBAN CLASS I
	SILT FENCE
X X X	HEAVY DUTY SILT FENCE
	MEDIUM RIPRAP
	STONE DITCH CHECK
	INLET PROTECTION
	TEMPORARY DITCH CHECK
	CULVERT PIPE CHECK
	SURFACE WATER FLOW
	SLOPE INTERCEPT
	ROCK BAG
	WETLAND

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	EROSION CONTROL	SHEET 136	E

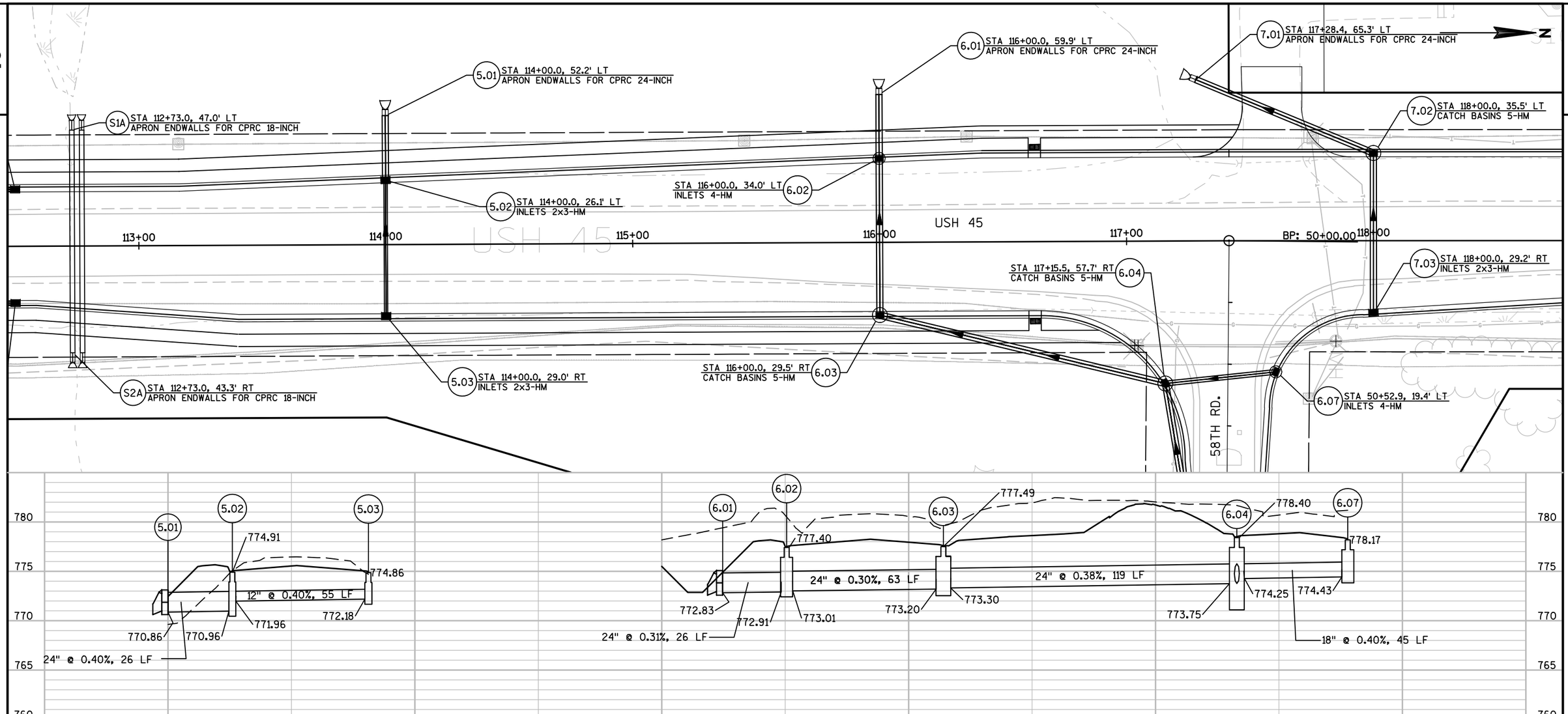


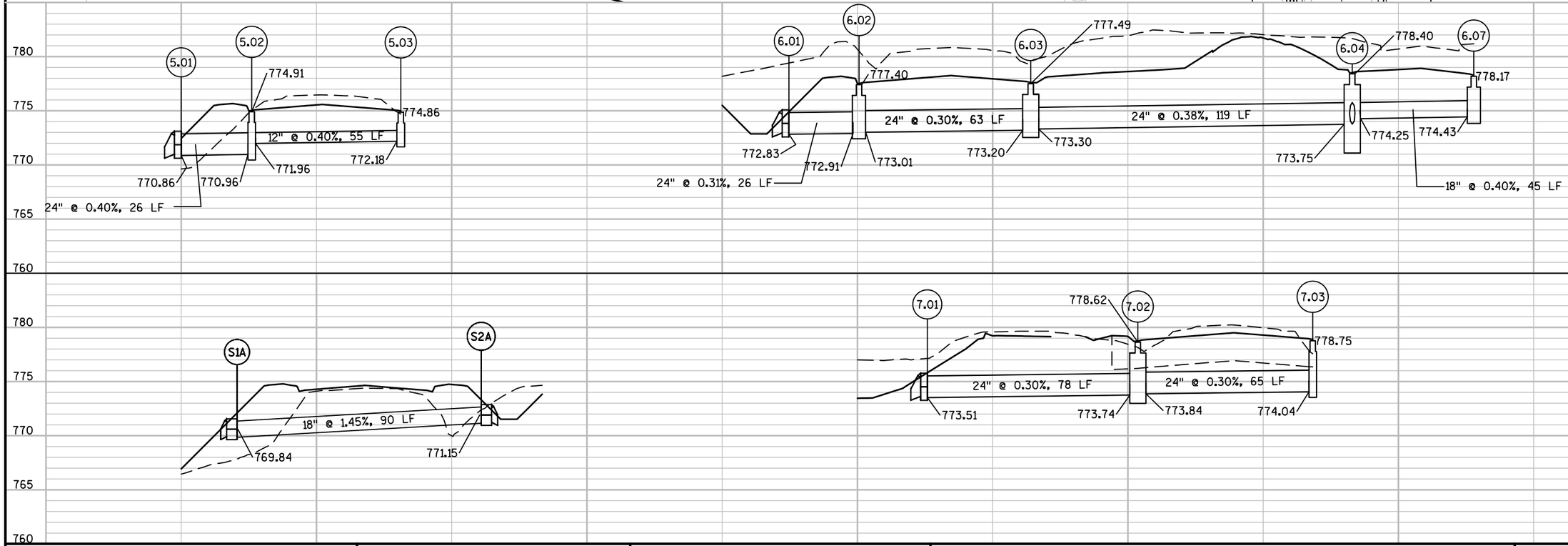
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 137	E





PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 138	E





PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 139 E

2

N

8.1 STA 121+25.0, 29.3' LT
APRON ENDWALLS FOR CPRC 24-INCH

8.2 STA 121+25.0, 23.5' RT
INLETS 2x3-HM

8.2A STA 121+25.0, 41.0' RT
INLETS MEDIAN 1G-MS

8.2A STA 121+25.0, 41.0' RT
INLETS MEDIAN 1G-MS

8.3 STA 124+00.0, 42.0' LT
APRON ENDWALLS FOR CPRC 18-INCH

8.4 STA 124+00.0, 25.6' RT
INLETS 2x3-HM

9.1 STA 127+00.4, 45.9' LT
APRON ENDWALLS FOR CPRC 24-INCH

9.2 STA 127+00.0, 11.0' LT
INLETS 2x3-H

9.3 STA 127+00.0, 1.3' RT
INLETS 2x3-H

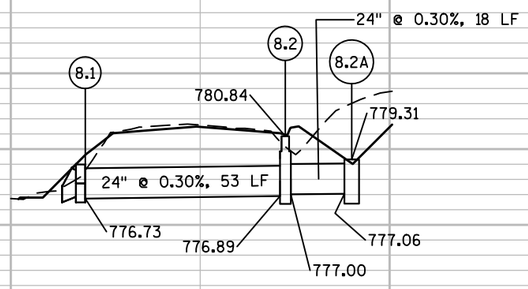
9.4 STA 127+00.0, 25.7' RT
INLETS 2x3-H

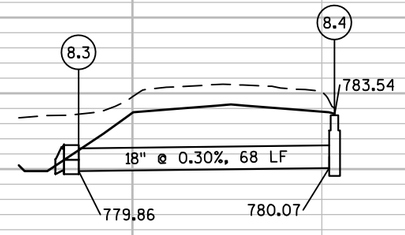
121+00 122+00 123+00 124+00 125+00 126+00 127+00

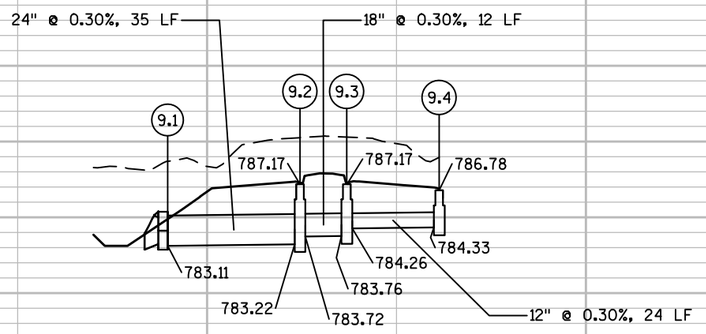
USH 45

USH 45

805 800 795 790 785 780 775 770 765 760

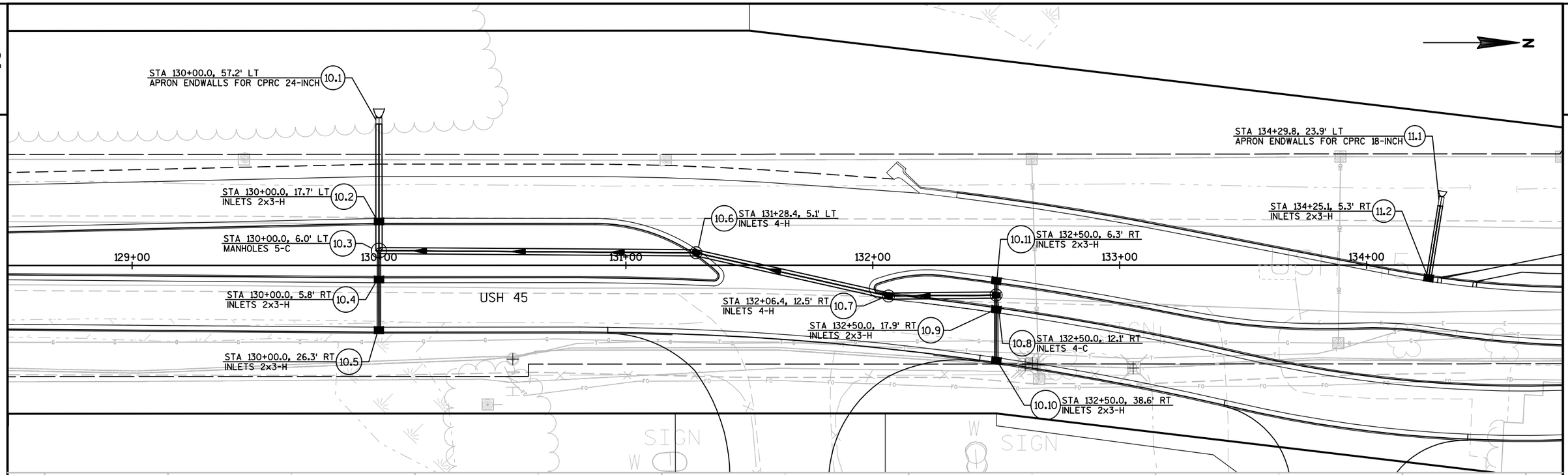


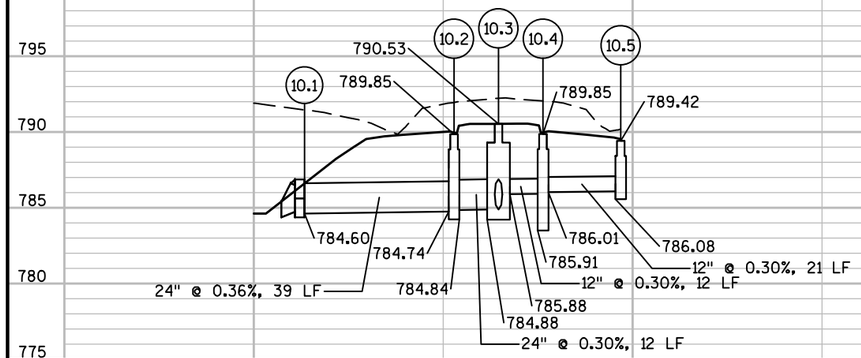


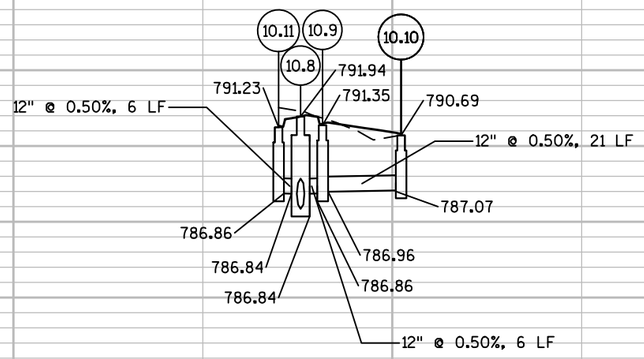


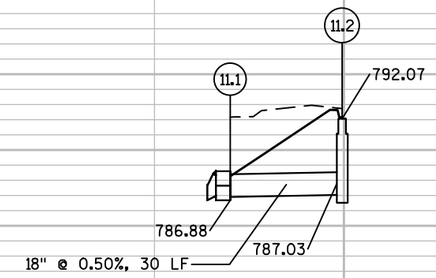
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 140	E

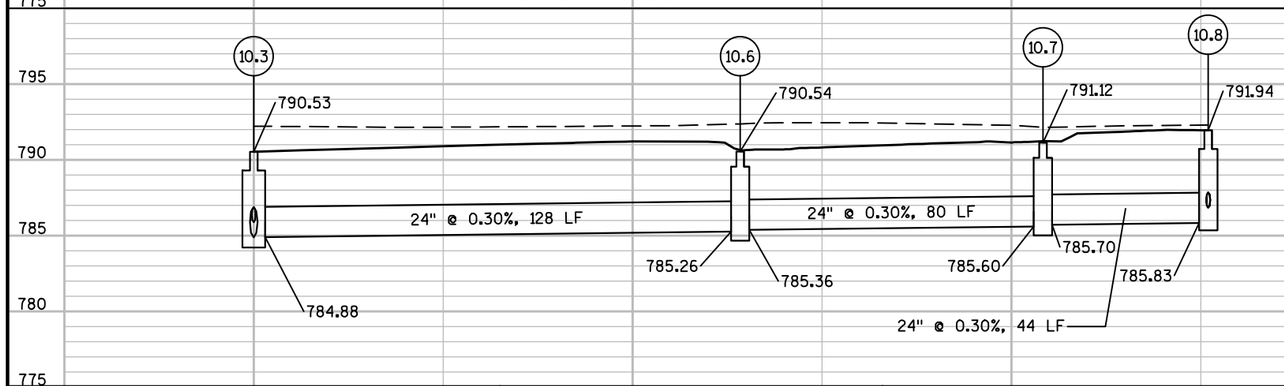
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\02 - TYPICAL SECTIONS AND DETAILS\022501-SS.DWG
LAYOUT NAME - 022501-SS - 022504
PLOT DATE : 11/30/2016 12:05 PM PLOT BY : ENGERSON, JONATHAN MPLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41



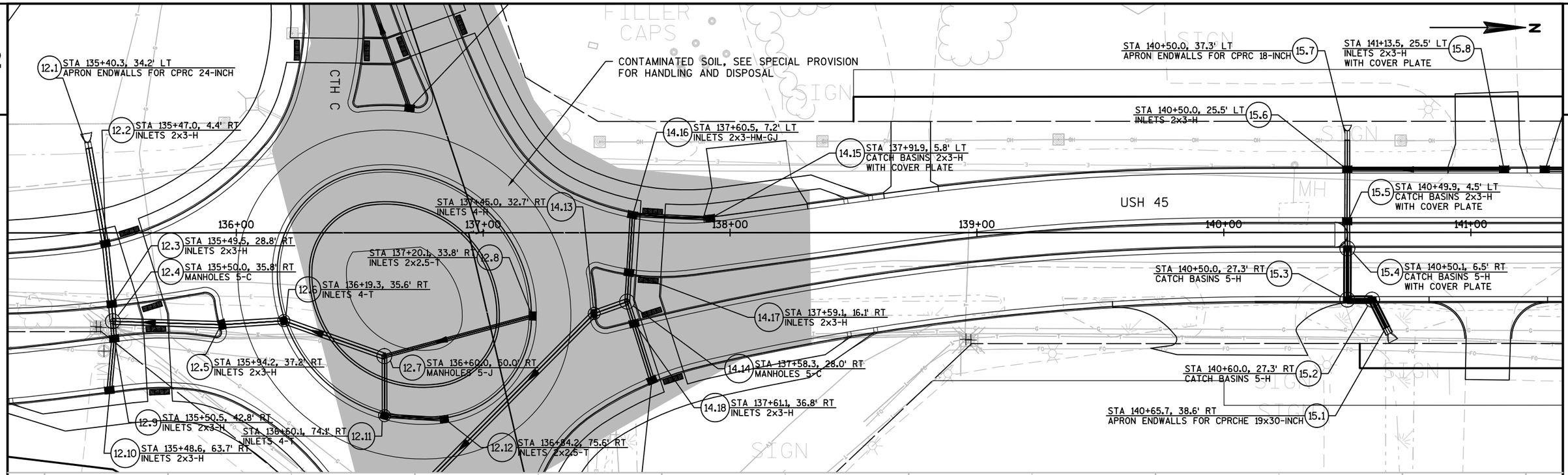


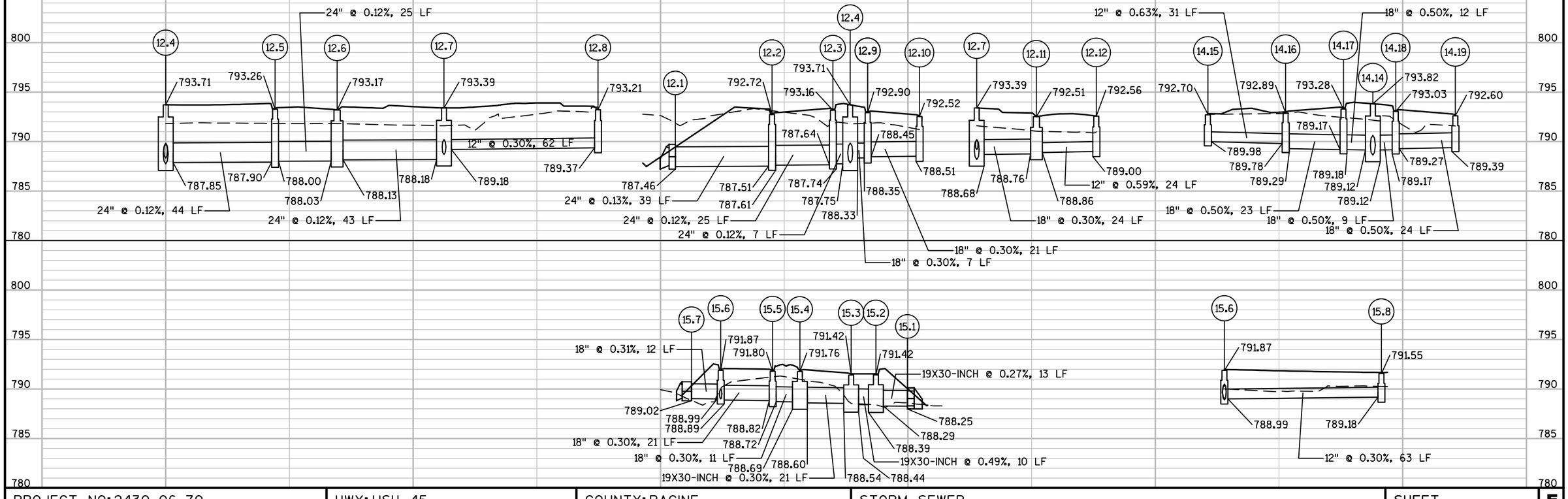




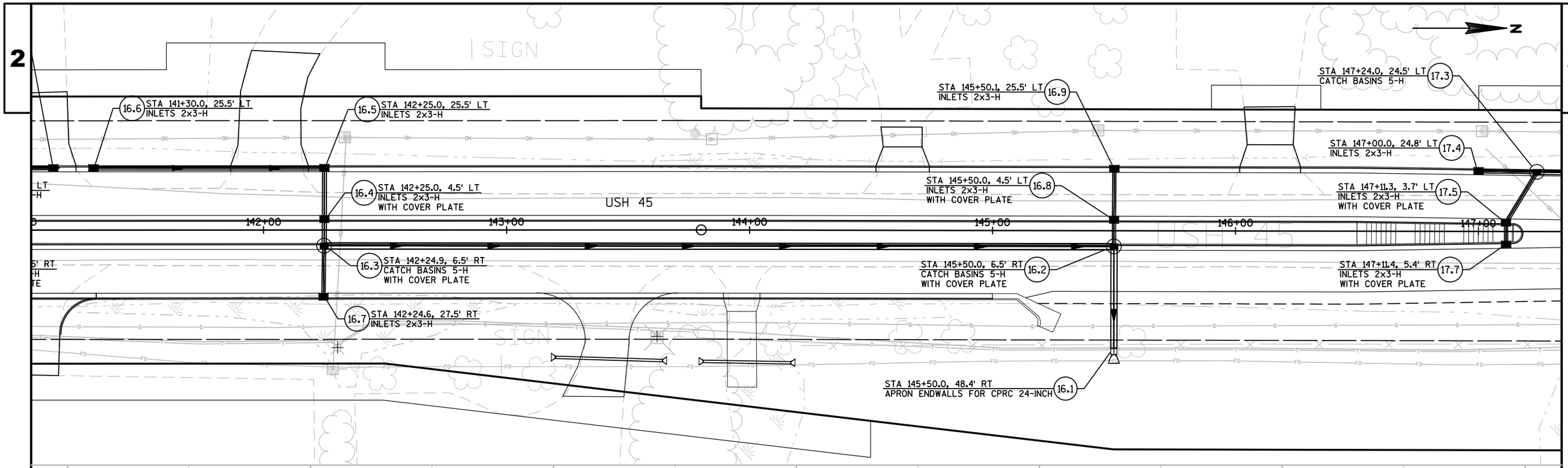


PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 141	E

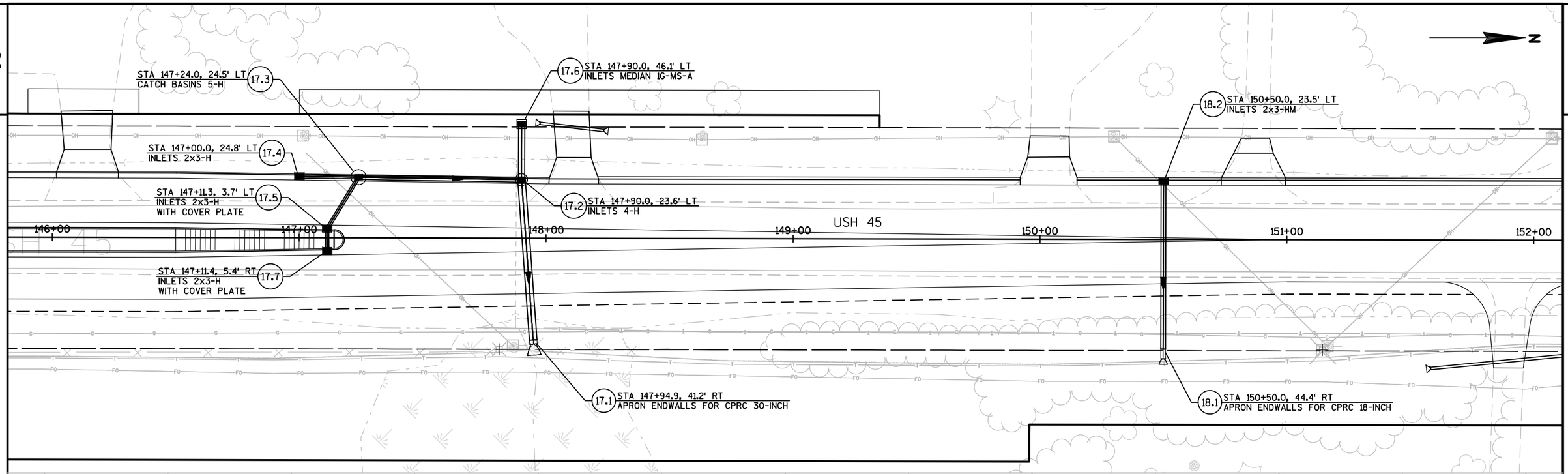


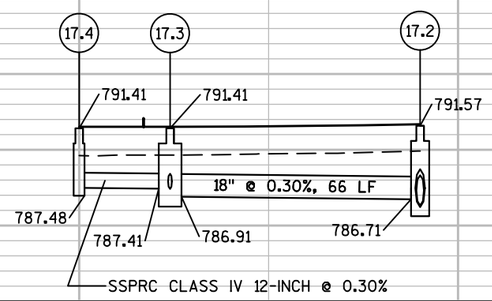


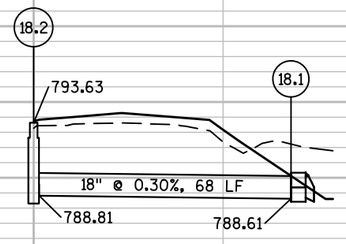
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 142	E

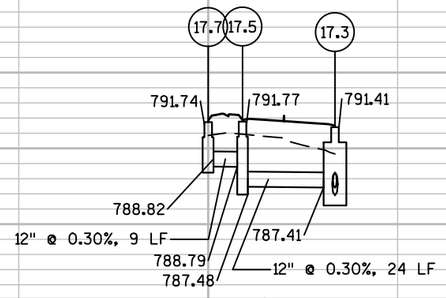


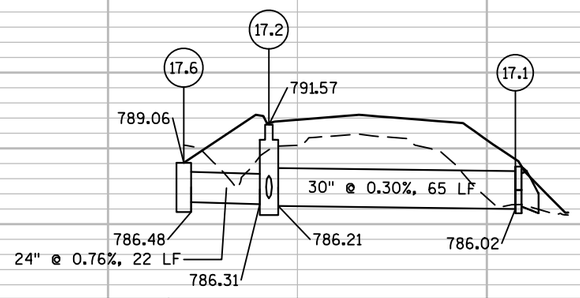
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 143 E





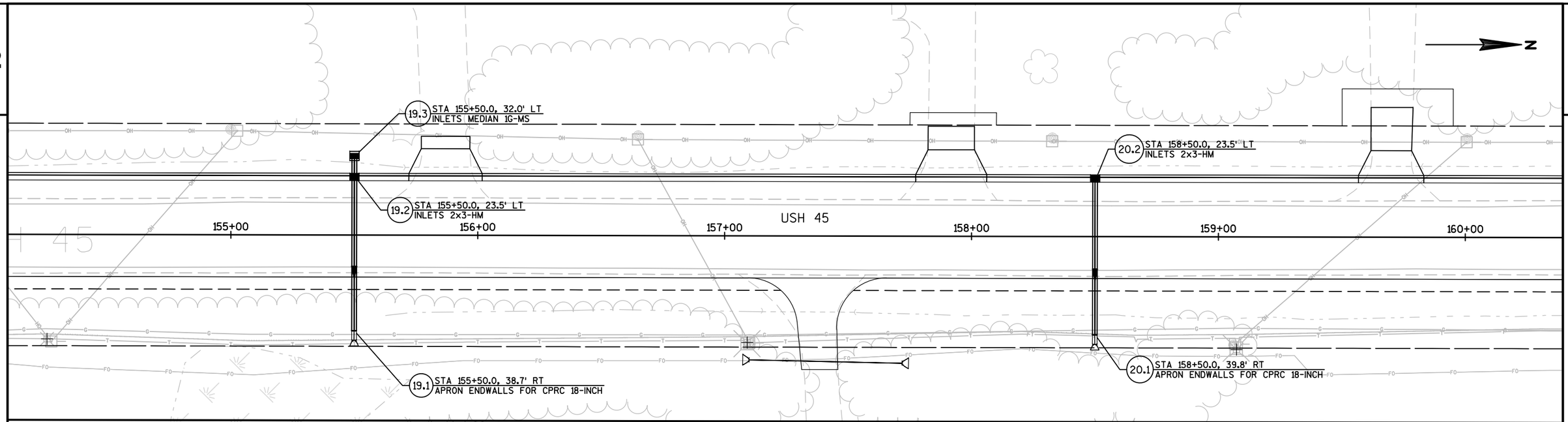


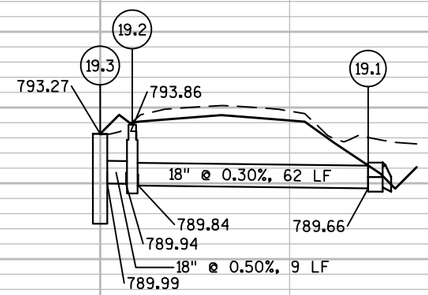


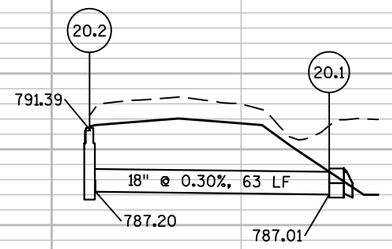


PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 144 E

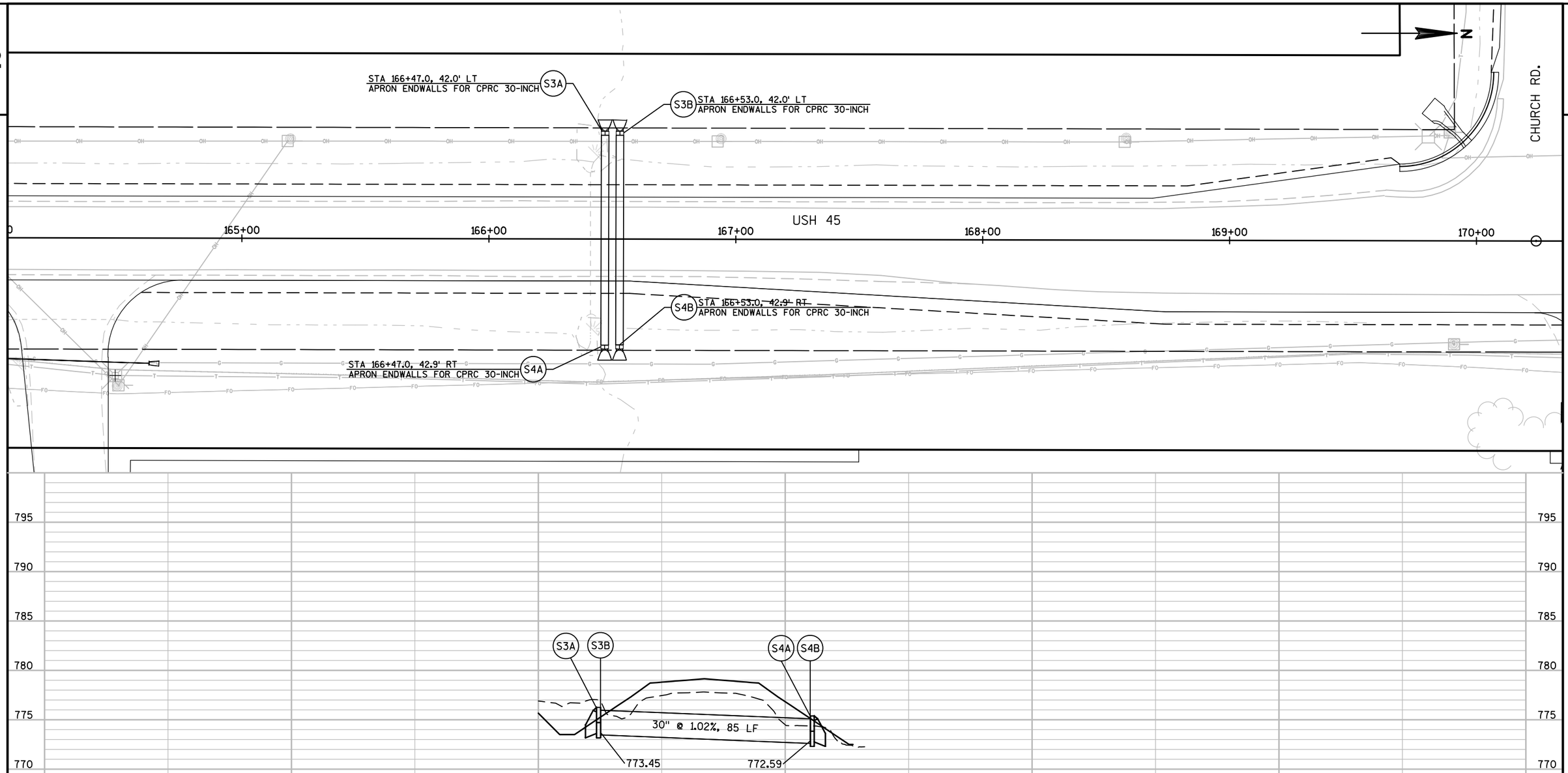
2







PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 145 E

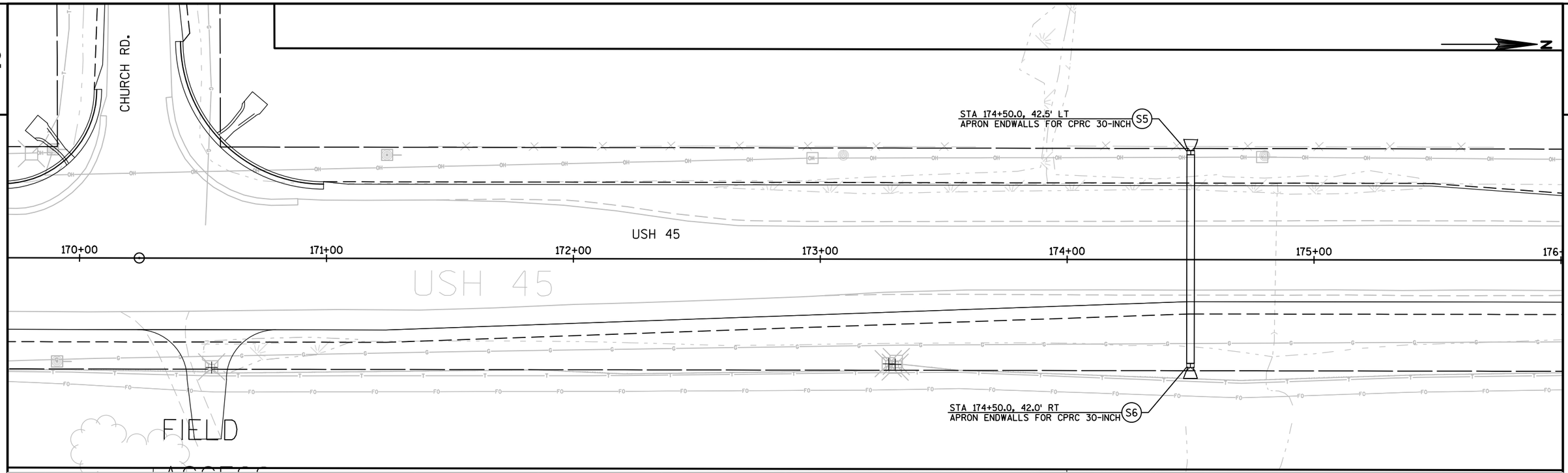


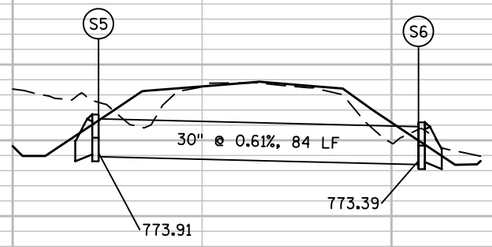
2

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 146 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\02 - TYPICAL SECTIONS AND DETAILS\022501-SS.DWG
LAYOUT NAME - 022501-SS - 022510
PLOT DATE : 11/30/2016 12:07 PM PLOT BY : ENGERSON, JONATHAN MPLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

2





795 790 785 780 775 770 765 760 755 750

PROJECT NO:2430-06-70	HWY:USH 45	COUNTY:RACINE	STORM SEWER	SHEET 147 E

2

N

STA 185+50.0, 35.5' LT
INLETS 2x3-HM
22.2

SIGN

21.2 STA 180+50.0, 28.3' LT
INLETS 2x3-HM

21.4 STA 182+50.0, 35.5' LT
INLETS 2x3-HM

USH 45

180+00 181+00 182+00 183+00 184+00 185+00 186+00

21.1 STA 180+50.0, 44.6' RT
APRON ENDWALLS FOR CPRC 18-INCH

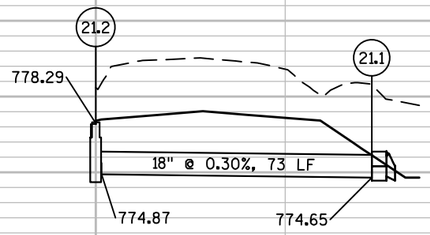
STA 182+50.0, 51.3' RT
APRON ENDWALLS FOR CPRC 18-INCH 21.3

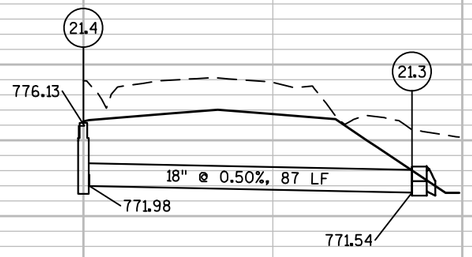
52ND RD.

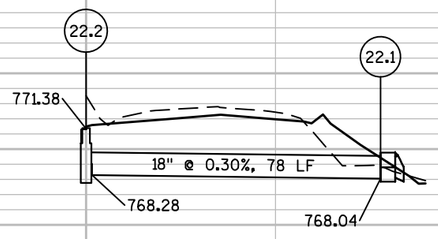
STA 185+50.0, 42.2' RT
APRON ENDWALLS FOR CPRC 18-INCH 22.1

SEPV

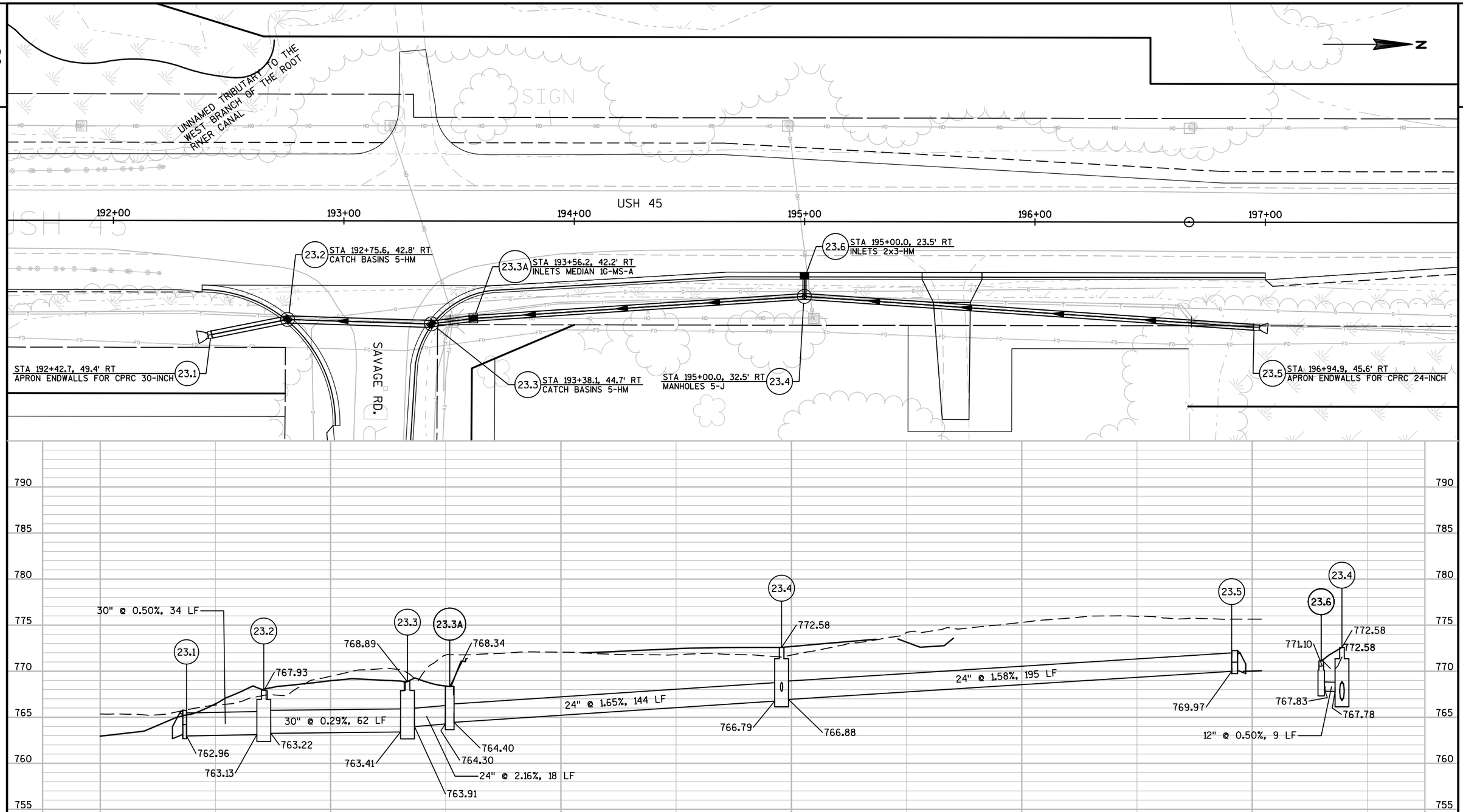
795 790 785 780 775 770 765 760 755 750







PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 148 E



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 149	E

STA 216+50.0, 40.5' LT
APRON ENDWALLS FOR CPRC 30-INCH (S7B)

STA 216+43.4, 40.5' LT
APRON ENDWALLS FOR CPRC 30-INCH (S7A)

(S7C) STA 216+56.6, 40.5' LT
APRON ENDWALLS FOR CPRC 30-INCH

N

214+00 215+00 216+00 217+00 218+00 219+00 220+00

USH 45

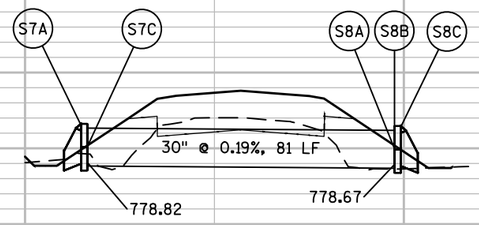
USH 45

STA 216+43.4, 40.6' RT
APRON ENDWALLS FOR CPRC 30-INCH (S8A)

(S8C) STA 216+56.6, 40.6' RT
APRON ENDWALLS FOR CPRC 30-INCH

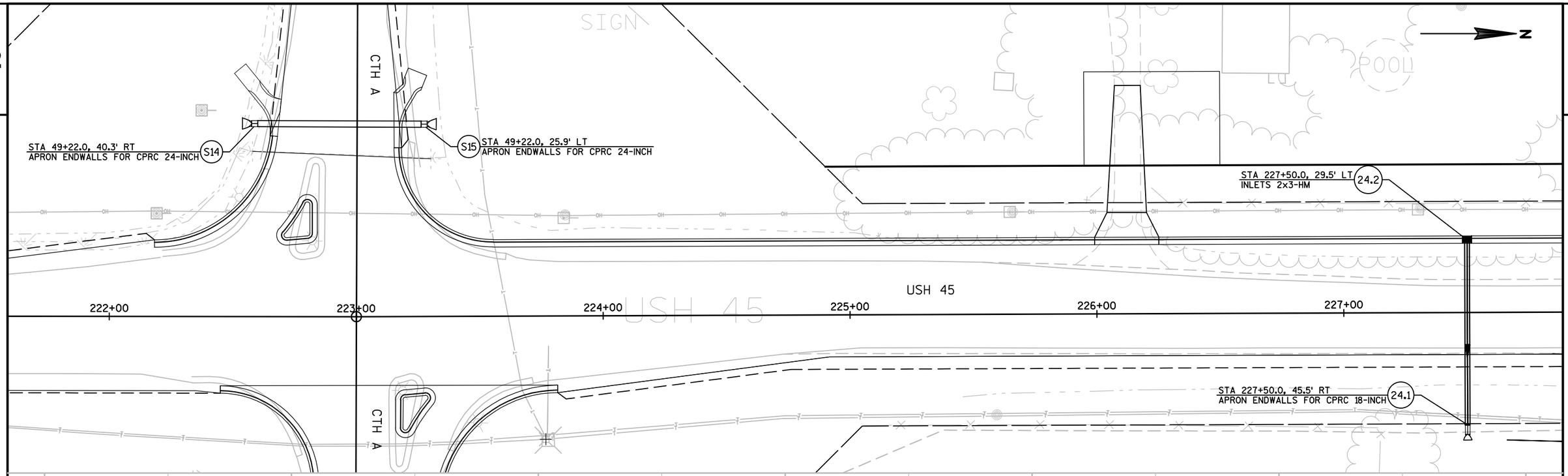
STA 216+50.0, 40.6' RT
APRON ENDWALLS FOR CPRC 30-INCH (S8B)

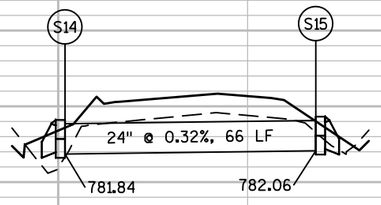
800 795 790 785 780 775 770 765 760 755

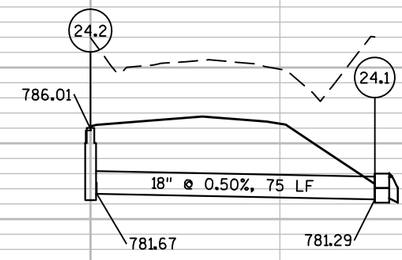


PROJECT NO:2430-06-70	HWY:USH 45	COUNTY:RACINE	STORM SEWER	SHEET 150 E

2







PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 151 E

2

N

STA 253+00.0, 48.8' LT
APRON ENDWALLS FOR CPRC 30-INCH S9

STA 253+00.0, 52.2' RT
APRON ENDWALLS FOR CPRC 30-INCH S10

250+00 251+00 252+00 253+00 254+00 255+00

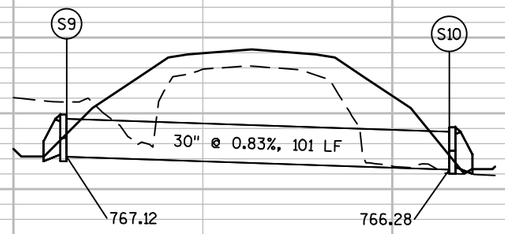
USH 45

USH 45

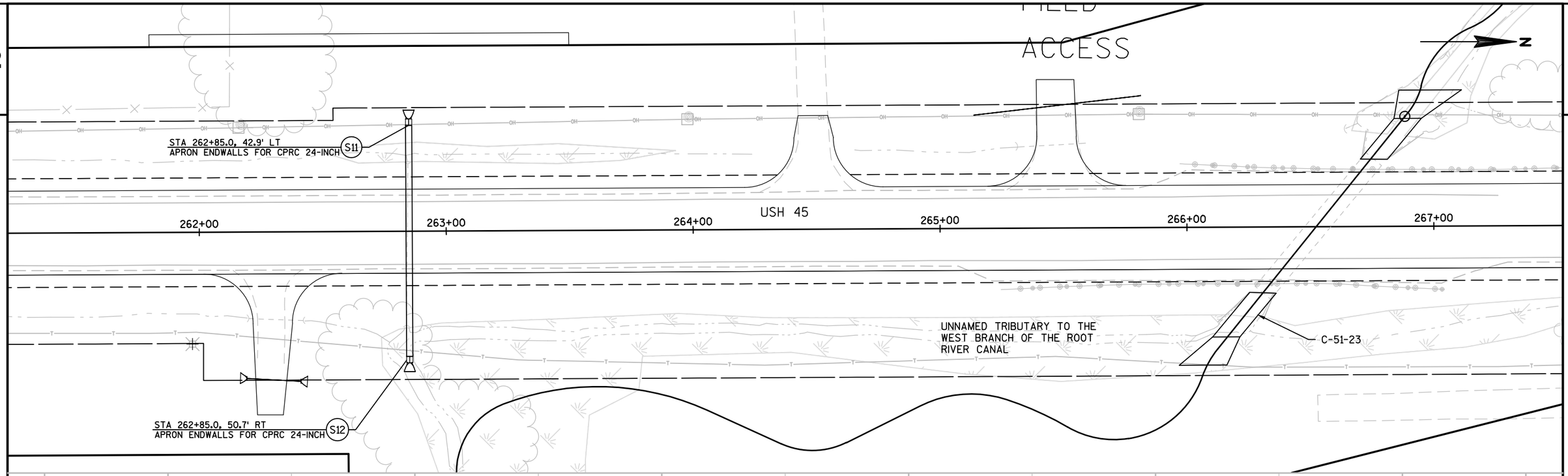
FIELD ACCESS

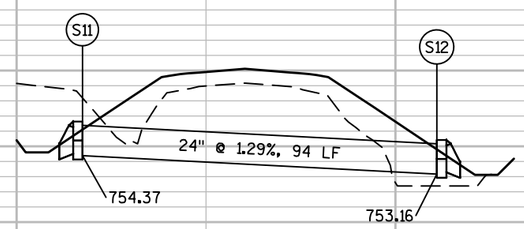
FIELD ACCESS

790 785 780 775 770 765 760 755 750 745



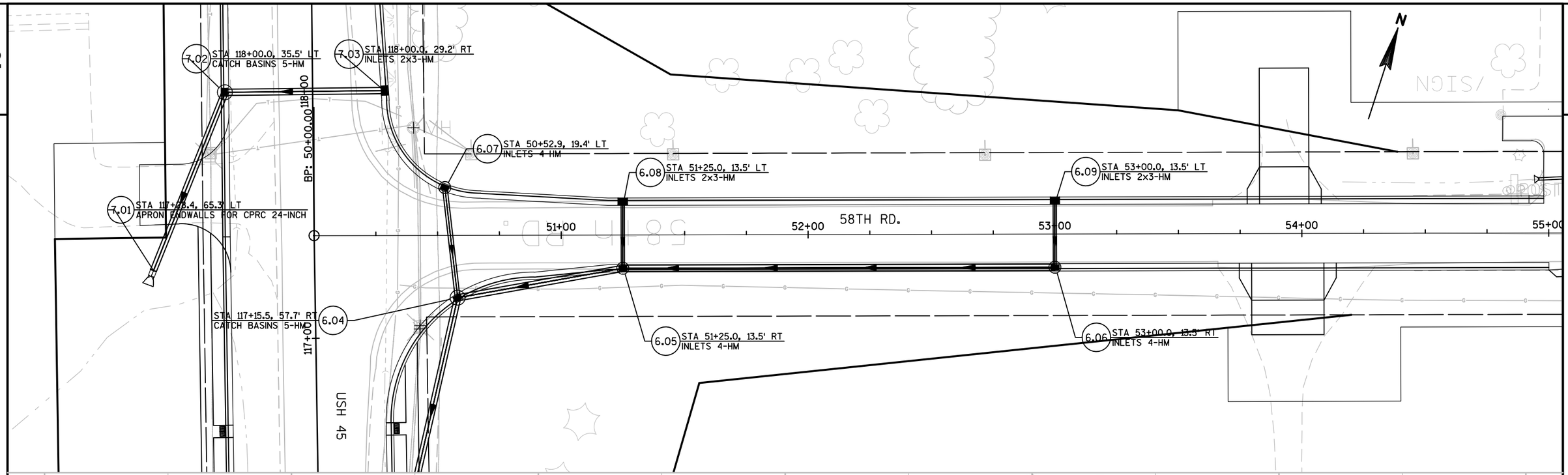
PROJECT NO:2430-06-70	HWY:USH 45	COUNTY:RACINE	STORM SEWER	SHEET 152 E

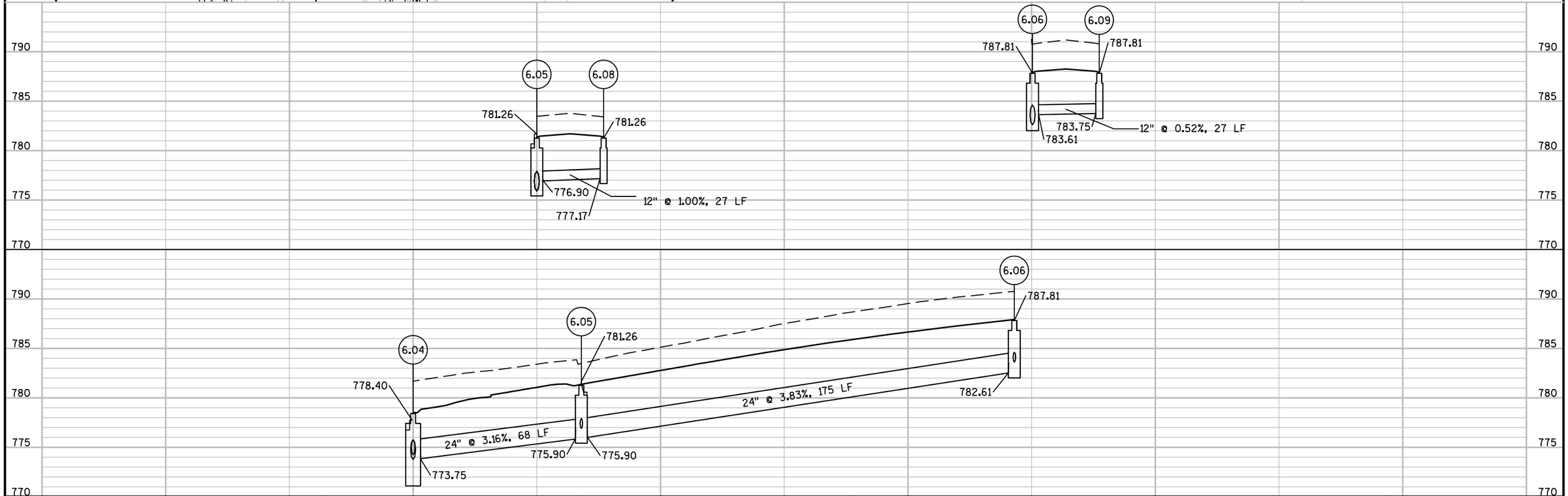




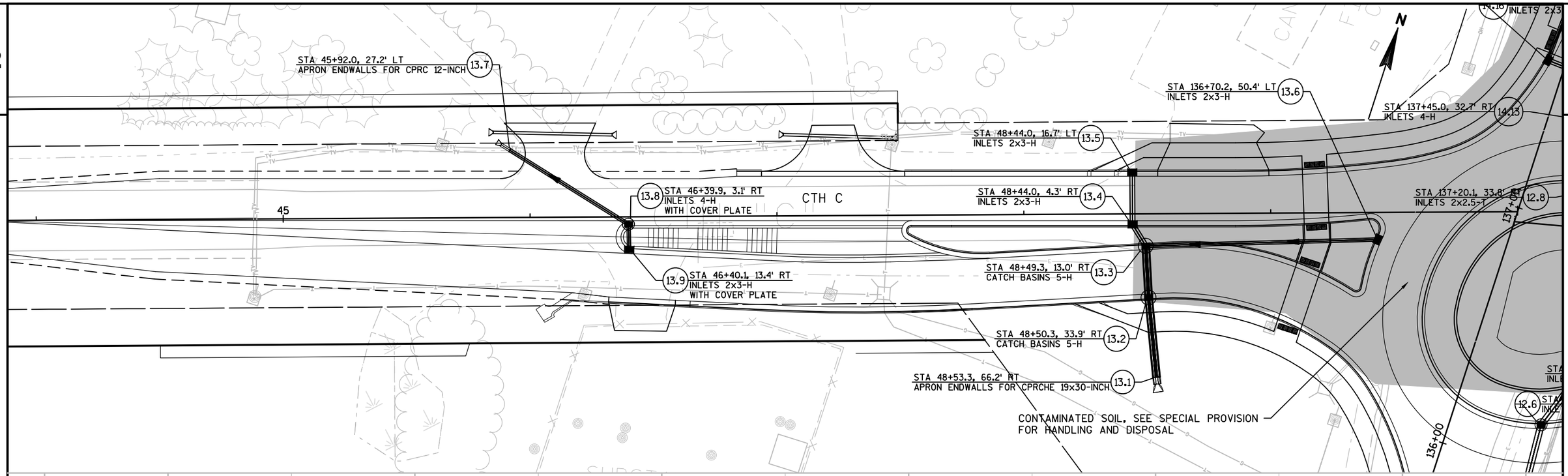
775 770 765 760 755 750 745 740 735 730

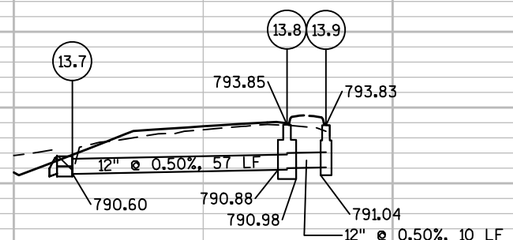
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 153 E

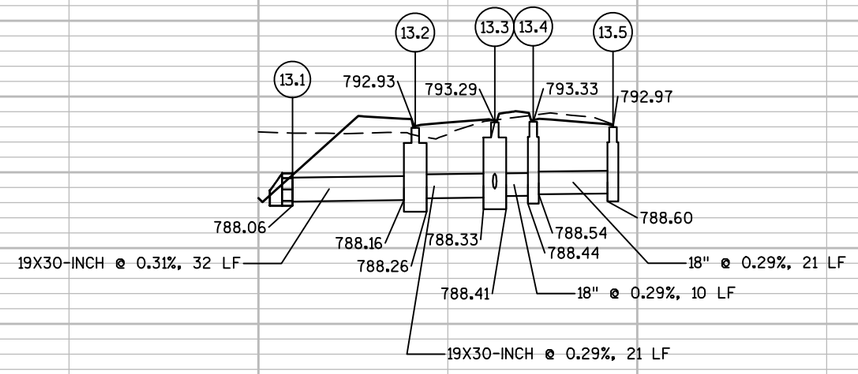


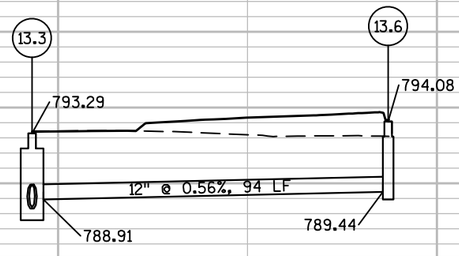


PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 154	E









PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 155 E

2

14.17 STA 137+59.1, 16.1' RT
INLETS 2x3-H

14.14 STA 137+58.3, 28.0' RT
MANHOLES 5-C

14.18 STA 137+61.1, 36.8' RT
INLETS 2x3-H

CONTAMINATED SOIL, SEE SPECIAL PROVISION
FOR HANDLING AND DISPOSAL

137+60.0, 7.2' LT
TS 2x3-HM-GJ

138+00

14.19 STA 137+68.4, 59.8' RT
INLETS 2x3-HM-GJ

14.22 STA 52+28.0, 17.0' LT
APRON ENDWALLS FOR CPRC 12-INCH

14.12 STA 52+29.2, 10.0' LT
INLETS 2x3-H

14.8 STA 51+19.6, 2.7' RT
INLETS 2x3-HM-GJ

14.11 STA 52+99.9, 0.4' RT
INLETS 2x3-H

14.21 STA 54+95.0, 1.5' LT
INLETS 2x3-H

STA 54+89.0, 5.5' RT
CATCH BASINS 5-H 14.2

12.8

51 52 53 54 55 56

12.12 STA 136+88.2, 75.6' RT
INLETS 2x2.5-T

14.4 STA 51+12.4, 36.2' RT
CATCH BASINS 6-C

14.3 STA 53+00.2, 7.6' RT
MANHOLES 5-C

14.20 STA 52+32.8, 10.7' RT
CATCH BASINS 5-H

12.7 STA 136+60.0, 50.0' RT
MANHOLES 5-J

14.9 STA 53+00.6, 15.2' RT
INLETS 2x3-H

STA 55+35.3, 37.6' RT
APRON ENDWALLS FOR CPRCHE 19x30-INCH 14.1

14.6 STA 51+14.8, 44.8' RT
INLETS 2x3-H

STA 136+80.1, 74.1' RT
INLETS 4-T 12.11

STA 136+77.3, 100.9' RT
CATCH BASINS 5-H 14.5

14.7 STA 51+17.2, 66.5' RT
INLETS 2x3-HM-GJ

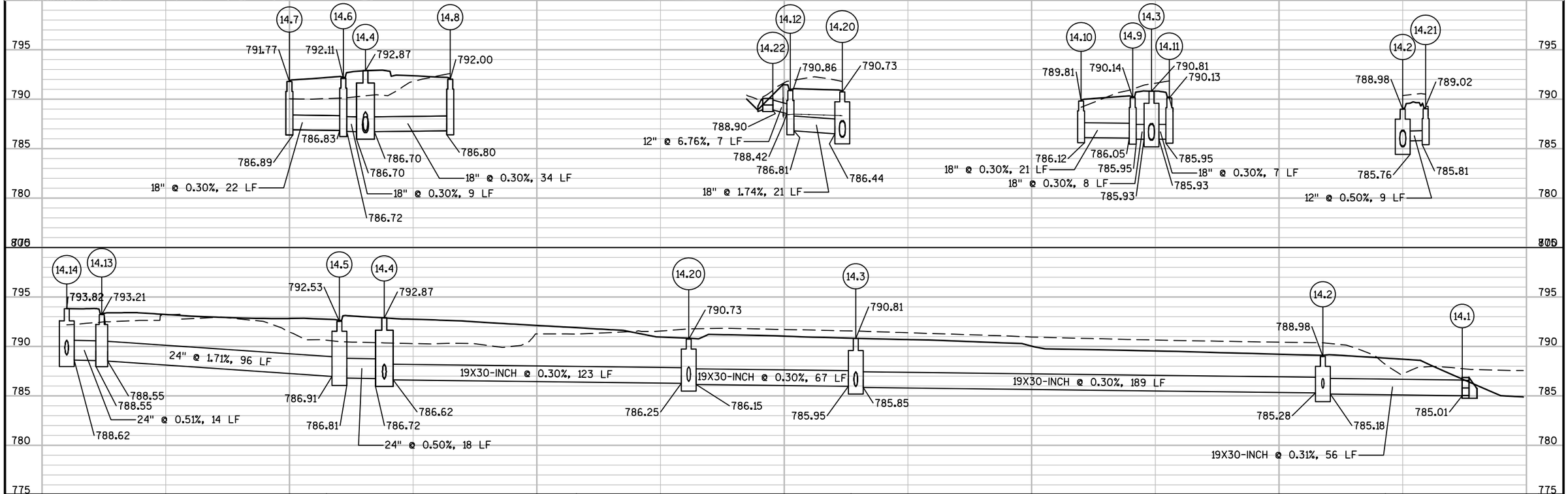
14.10 STA 52+99.7, 36.0' RT
INLETS 2x3-H

12.6 STA 136+19.3, 35.6' RT

CTH C

SIGN

N



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	STORM SEWER	SHEET 156	E

2

N

STA 57+50.8, 32.5' LT
APRON ENDWALLS FOR CPRC 15-INCH
25.1

REMOVE EXISTING APRON ENDWALL, EXPOSE EXISTING PIPE, AND CONNECT TO PROPOSED INLET 25.2. THIS WORK IS INCIDENTAL TO INLET 25.2.

EXISTING STORM SEWER PIPE

25.2 STA 57+69.2, 24.4' LT
INLETS MEDIAN 1G-MS

1.5' LT

CTH C

60

SIGN

SIGN

SIGN

25.1

25.2

786.10

784.49

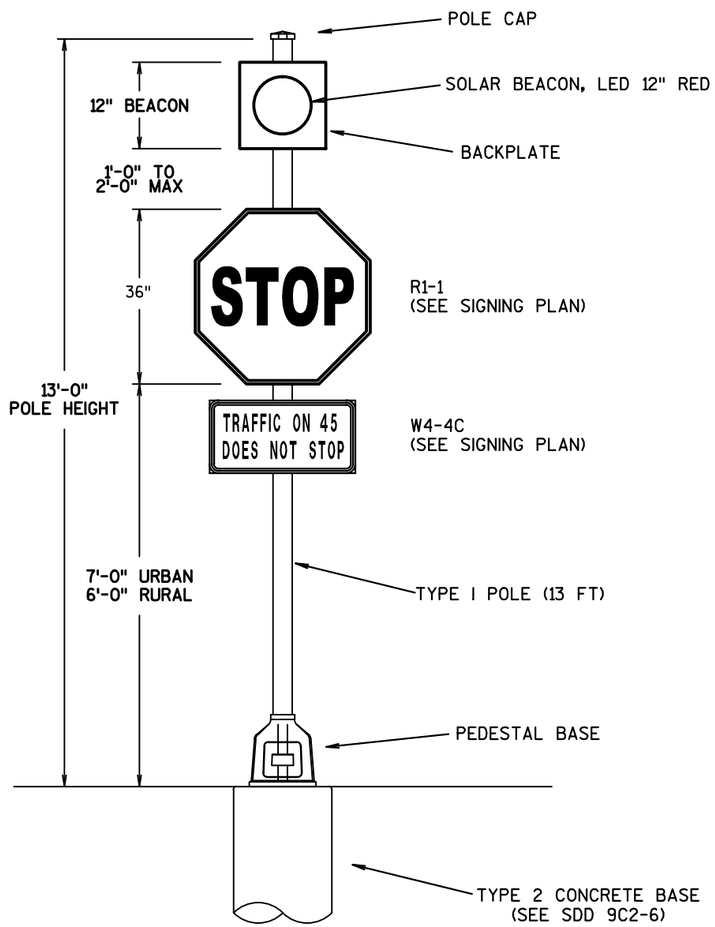
784.30

15" @ 0.96%, 20 LF

800
795
790
785
780
775
770
765
760
755

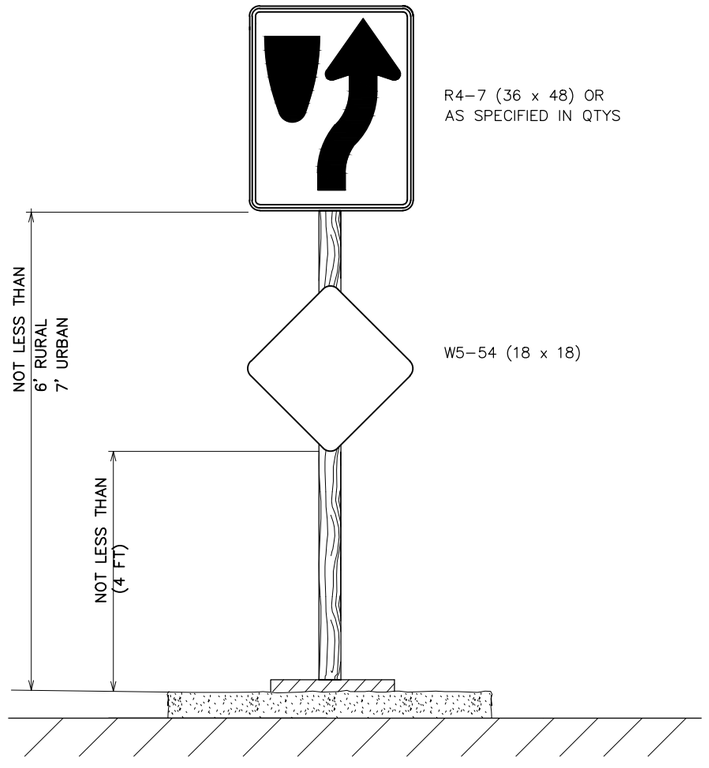
PROJECT NO:2430-06-70	HWY:USH 45	COUNTY:RACINE	STORM SEWER	SHEET 157	E

2



12' SOLAR BEACON ASSEMBLY
(STOP SIGN APPLICATION)

2



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

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

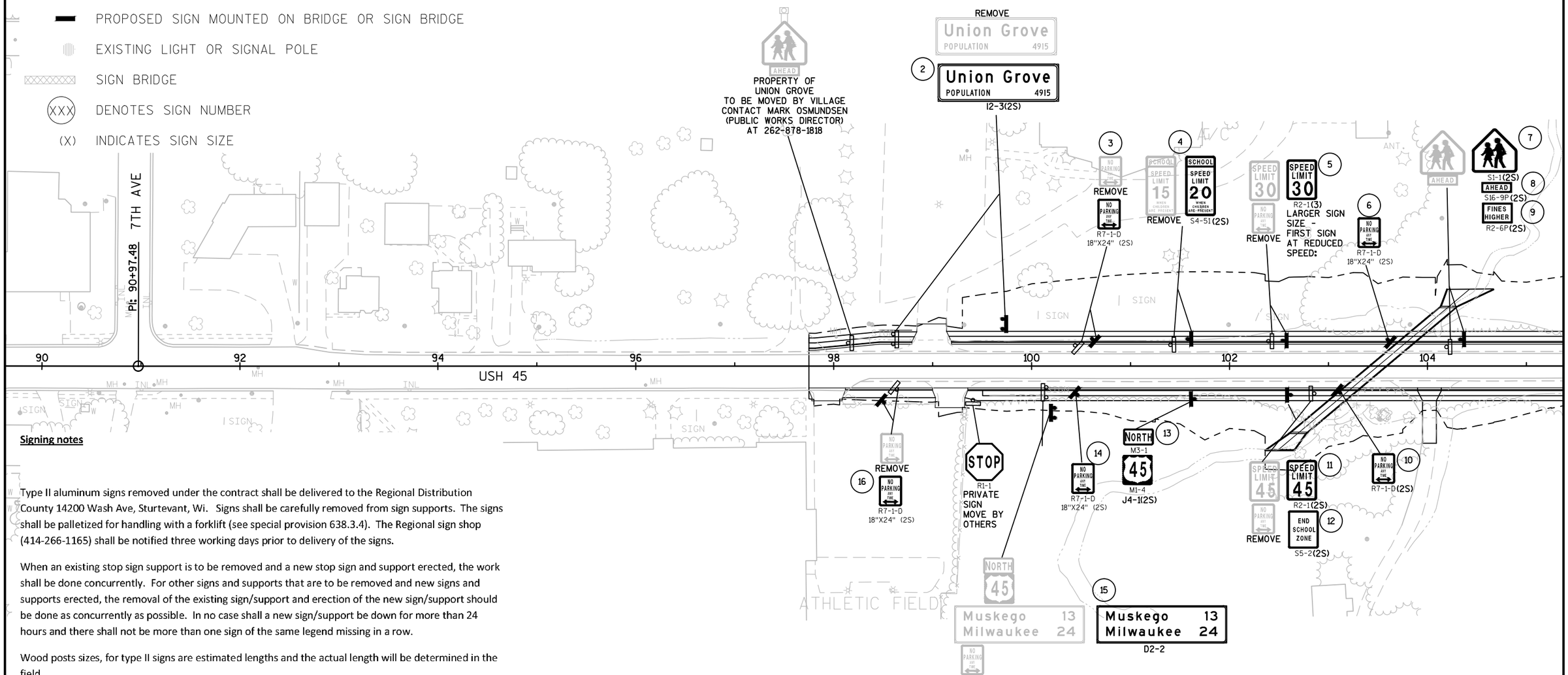
EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N



Signing notes

Type II aluminum signs removed under the contract shall be delivered to the Regional Distribution County 14200 Wash Ave, Sturtevant, Wi. Signs shall be carefully removed from sign supports. The signs shall be palletized for handling with a forklift (see special provision 638.3.4). The Regional sign shop (414-266-1165) shall be notified three working days prior to delivery of the signs.

When an existing stop sign support is to be removed and a new stop sign and support erected, the work shall be done concurrently. For other signs and supports that are to be removed and new signs and supports erected, the removal of the existing sign/support and erection of the new sign/support should be done as concurrently as possible. In no case shall a new sign/support be down for more than 24 hours and there shall not be more than one sign of the same legend missing in a row.

Wood posts sizes, for type II signs are estimated lengths and the actual length will be determined in the field.

Street name signs are property of the municipality (city, village or town). The municipality shall be contacted to remove their street name signs prior to construction and it is their responsibility to reinstall the old signs or replace them following construction. WisDOT does not furnish or install street name signs. The street name signs shall not be placed on top of the STOP signs.

Locate no passing pennants based on establishing no passing zones pay item. Place signs based on where the pavement marking for no passing zones begin

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

SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

2

REMOVE
NO PARKING ANY TIME
NO PARKING ANY TIME
17
R7-1-L(2S)

REMOVE
SPEED LIMIT 30
20
SPEED LIMIT 30
W3-5(2S)

REMOVE
SPEED LIMIT 45
SPEED LIMIT 45
21
R2-1(2S)

REMOVE
22
W1-7(2S)

PI: 117+41.54

106 108 110 112 114 116 118 120

USH 45

STOP
SCHOOL BUS FLASHING RED LIGHTS
18
R59-51(3)

REMOVE
NO PARKING ANY TIME
NO PARKING ANY TIME
19
R7-1-R(2S)

213
W2-2(2S)

SPEED LIMIT 45
REMOVE
23

24
W6-1(2S)

25
SPEED LIMIT 45
R2-1

26
CLASS B HIGHWAY
MOVE TO NEW POST PROPERTY OF TOWN OF YORKVILLE

58TH RD

REMOVE
STOP
27
STOP
R1-1(2S)

STREET NAME SIGNS PROPERTY OF MUNICIPALITY

SIGN

SHEET 2 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 161 E

FILE NAME : N:\PDS\C3D\CAD\24300600\SIGN\023201_PS.DWG
LAYOUT NAME - 023202_PS

PLOT DATE : 12/5/2016 1:04 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:100 FT

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

SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

PI: 117+41.54

116 118 120 122 124 126 128 130

USH 45

58TH RD

29 W6-3(2S)

30 DO NOT ENTER R5-1(3)

31 REMOVE SPEED LIMIT 45

32 R3-4(2S)

33 JCT COUNTY C REMOVE

34 W2-6(2S)

35 15 M.P.H. W13-1(2S)

16"X16" TEMPORARY ORANGE FLAGS

36 R4-7(3)

37 W5-54(2S) SEE DETAIL

38 REMOVE

39 JCT M2-1 COUNTY C M1-5A J1-1(2S)

28 SPEED LIMIT 45 R2-1(2S)

SIGN

POOL

SIGN

SHEET 3 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\24300600\SIGN\023201_PS.DWG
LAYOUT NAME - 023203_PS

PLOT DATE : 12/5/2016 1:04 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:100 FT

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

SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

42 WRONG WAY R5-1A(3)

43 W6-2(2S)

SPEED LIMIT 45 REMOVE

44 SPEED LIMIT 45 R2-1(2S)

45 R4-7(2S)

236 ONE WAY R6-2-L(2S)

46 47 REMOVE

PART OF #46 REMOVAL

SOUTH 45 REMOVE

I55-56

FROM STA 135+25 DO NOT REPLACE SIGN. SIGN IS PART OF SEPARATE PROGRAM.

128+00 129+00 130+00 131+00 132+00 133+00

USH 45

40 NORTH 45 WEST C EAST C D1-62

41 WRONG WAY R5-1A(2S)

51 W3-2(2S) 16"X16" TEMPORARY ORANGE FLAGS

50 DO NOT ENTER R5-1(2S)

49 R4-7(2S)

48 REMOVE

Southern Wis Center
Ellsworth Correctional
Southern Oaks

Southern Wis Center
Ellsworth Correctional
Southern Oaks

SHEET 4 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 163 E

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

SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

CTH C

USH 45

BRP 50+00.00

EP 50+00.00

49+00

51+00

52+00

134+00 135+00 136+00 137+00 138+00 139+00

52 SOUTH M3-3 45 M1-4 J4-1(2S)

53 MOVE TO STA 132+85

54 45 SOUTH Colony Ave D1-2

55 STOP REMOVE

56 W11-2(2S) 57 W16-7L(2S)

58 YIELD R1-2(2S) 16"X16" TEMPORARY ORANGE FLAGS

59 TO TRAFFIC FROM LEFT R1-54(2S) 7' MOUNTING HEIGHT TO BOTTOM OF YIELD SIGN

60 61 62 63 64 65 66 67 ONE WAY R6-1-R(2S) R6-4-B(2S) 4' MOUNTING HEIGHT

68 YIELD R1-2(2S) 16"X16" TEMPORARY ORANGE FLAGS

69 ONE WAY R6-2-R(2S) 7' MOUNTING HEIGHT TO BOTTOM OF YIELD SIGN

70 C WEST Spring St D1-2

71 72 STOP REMOVE

73 EAST COUNTY C WEST COUNTY C REMOVE

74 YIELD R1-2(2S) 16"X16" TEMPORARY ORANGE FLAGS

75 TO TRAFFIC FROM LEFT R1-54(2S) 7' MOUNTING HEIGHT TO BOTTOM OF YIELD SIGN

76 YIELD R1-2(2S) 16"X16" TEMPORARY ORANGE FLAGS

77 ONE WAY R6-2-R(2S) 7' MOUNTING HEIGHT TO BOTTOM OF YIELD SIGN

78 W11-2(2S) 79 W16-7L(2S)

214 215 STATE LAW STOP FOR PEDESTRIAN IN CROSSWALK R1-6(2S) 2' MOUNT HEIGHT

216 W11-2(2S) 217 W16-7L(2S)

218 219 STATE LAW STOP FOR PEDESTRIAN IN CROSSWALK R1-6(2S) 2' MOUNT HEIGHT

220 W11-2(2S) 221 W16-7L(2S)

222 223 STATE LAW STOP FOR PEDESTRIAN IN CROSSWALK R1-6(2S) 2' MOUNT HEIGHT

80 45 NORTH Colony Ave D1-2

81 YIELD R1-2(2S) 16"X16" TEMPORARY ORANGE FLAGS

82 TO TRAFFIC FROM LEFT R1-54(2S) 7' MOUNTING HEIGHT TO BOTTOM OF YIELD SIGN

224 W11-2(2S) 225 W16-7L(2S)

87 STOP REMOVE

88 DO NOT ENTER REMOVE

83 W11-2(2S) 84 W16-7L(2S)

85 YIELD R1-2(2S) 16"X16" TEMPORARY ORANGE FLAGS

86 ONE WAY R6-2-R(2S) 7' MOUNTING HEIGHT TO BOTTOM OF YIELD SIGN

237 COUNTY C REMOVE

226 227 STATE LAW STOP FOR PEDESTRIAN IN CROSSWALK R1-6(2S) 2' MOUNT HEIGHT

228 W11-2(2S) 229 W16-7L(2S)

89 C EAST Spring St D1-2

90 91 STOP REMOVE

92 WEST EAST COUNTY C COUNTY C REMOVE

93 YIELD R1-2(2S) 16"X16" TEMPORARY ORANGE FLAGS

94 TO TRAFFIC FROM LEFT R1-54(2S) 7' MOUNTING HEIGHT TO BOTTOM OF YIELD SIGN

95 YIELD R1-2(2S) 16"X16" TEMPORARY ORANGE FLAGS

96 ONE WAY R6-2-R(2S) 7' MOUNTING HEIGHT TO BOTTOM OF YIELD SIGN

97 W11-2(2S) 98 W16-7L(2S)

99 ONE WAY R6-2-R(2S)

100 WEST EAST COUNTY C COUNTY C REMOVE

SHEET 5 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 164 E

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
- SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

2

N

REMOVE
Southern Wis Center
Ellsworth Correctional
Southern Oaks

107 R4-7(3)
108 W5-54D(2S)

109 Southern Wis Center / Ellsworth Correctional / Southern Oaks

110 REMOVE EAST COUNTY C / WEST COUNTY C

111 W3-2(2S) 16"X16" TEMPORARY ORANGE FLAGS

112 REMOVE

USH 45

138+00 139+00 140+00 141+00 142+00 143+00 144+00

FH 143+80.17

101 ONE WAY R6-2-R(2S)
102

103 NORTH 45 J4-1(2S)

REMOVE NORTH 45

104 MOVE SPONSOR SPONSOR1 SPONSOR2 SPONSOR3 I55-56
DO NOT REPLACE SIGN.
SIGN IS PART OF SEPARATE PROGRAM.

105 ONE WAY R6-2-R(2S)

106 R3-4(2S)

114 SPEED LIMIT 45 R2-1(2S)

115 WRONG WAY R5-1A(3)

113 SPEED LIMIT 45 REMOVE

REMOVE

SHEET 6 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 165 E

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

SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

SIGN

116 SOUTH 45 EAST C WEST C D1-62

PI 143+80.17

117 JCT COUNTY C REMOVE

118 SOUTHERN VETERANS MEMORIAL CEMETARY MOVE INSTALLED BY PERMIT

119 W2-6(2S)

120 15 M.P.H. W13-1(2S)

16"X16" TEMPORARY ORANGE FLAGS

121 W12-1R (2S) 2' MOUNT HEIGHT

122 REMOVE

USH 45

143+00 144+00 145+00 146+00 147+00 148+00

123 DO NOT ENTER R5-1(3)

SIGN

N

SHEET 7 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 166 E

FILE NAME : N:\PDS\C3D\CAD\24300600\SIGN\023204_PS.DWG
LAYOUT NAME - 023207_PS

PLOT DATE : 12/5/2016 2:57 PM 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

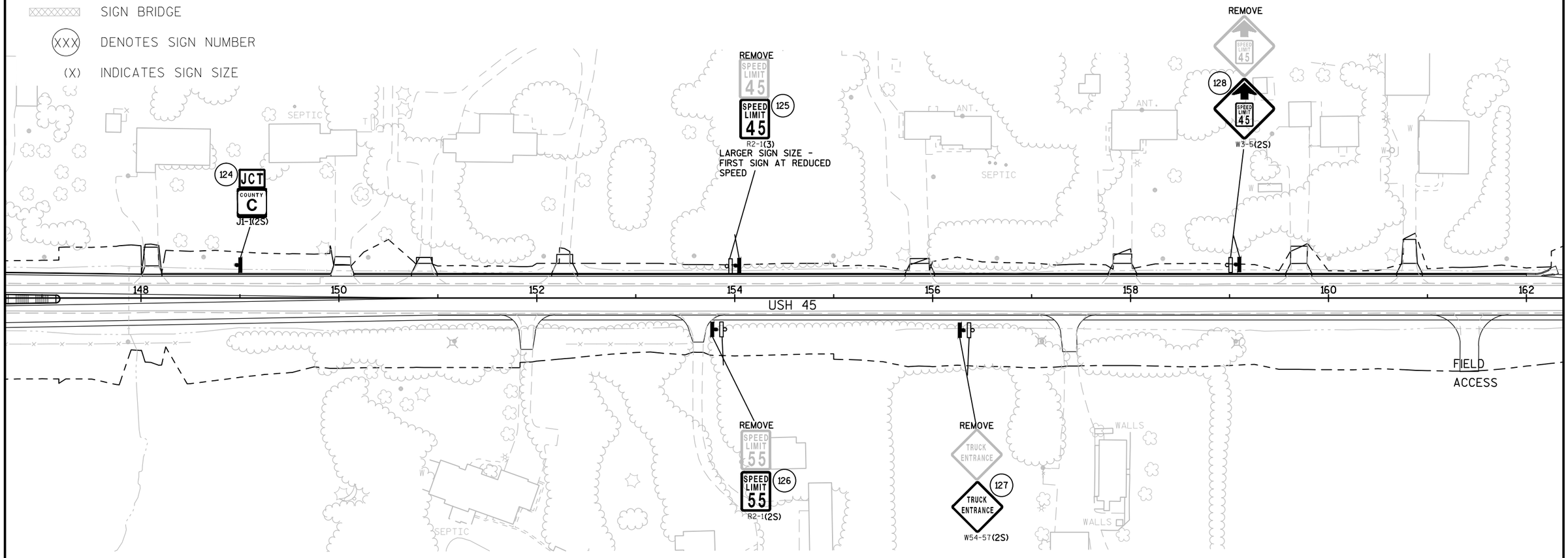
EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N



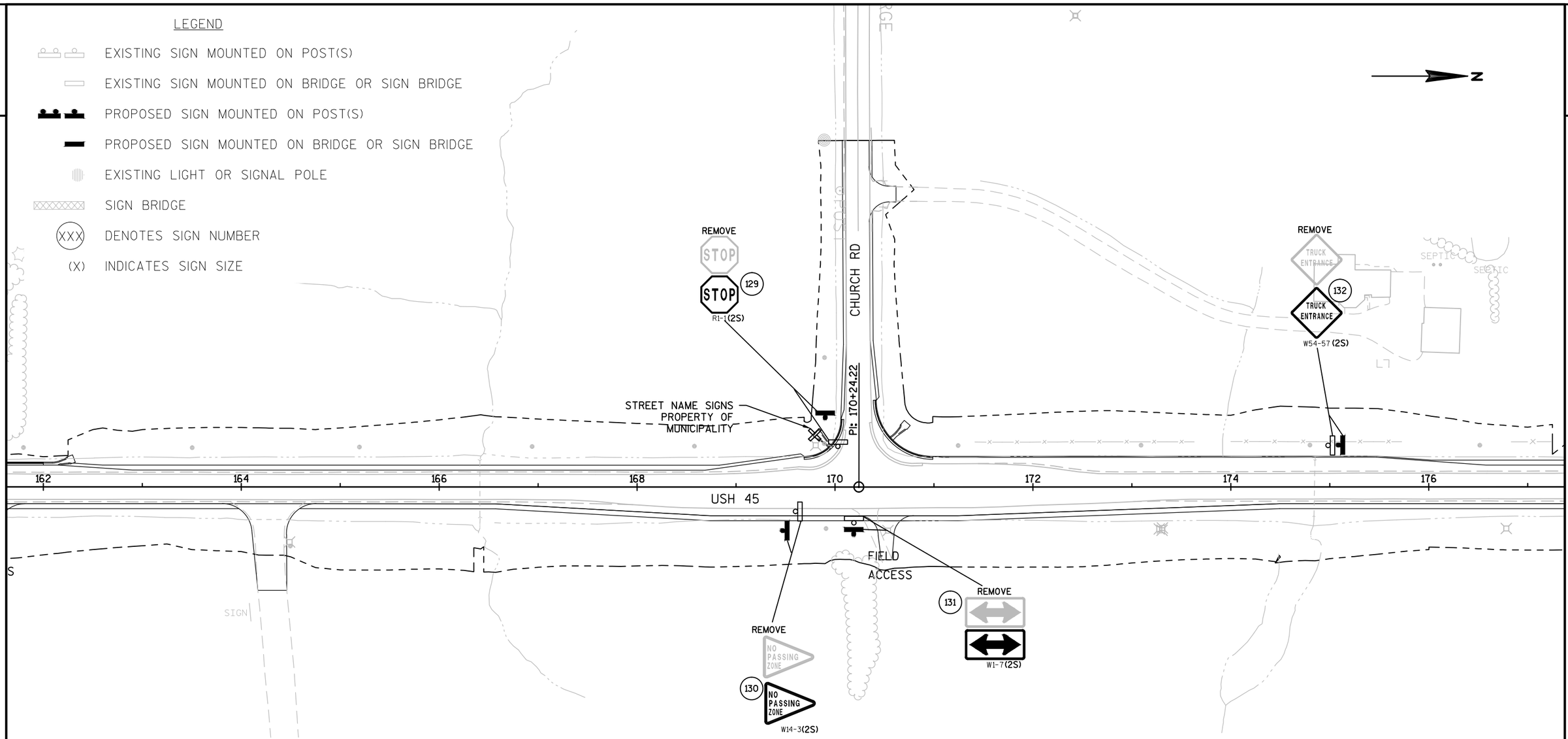
SHEET 8 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 167	E

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
- SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE



NOTE: "NO PASSING ZONE" PERMANENT SIGNS SHALL BE LOCATED AFTER PASSING ZONES HAVE BEEN ESTABLISHED.

SHEET 9 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 168 E

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

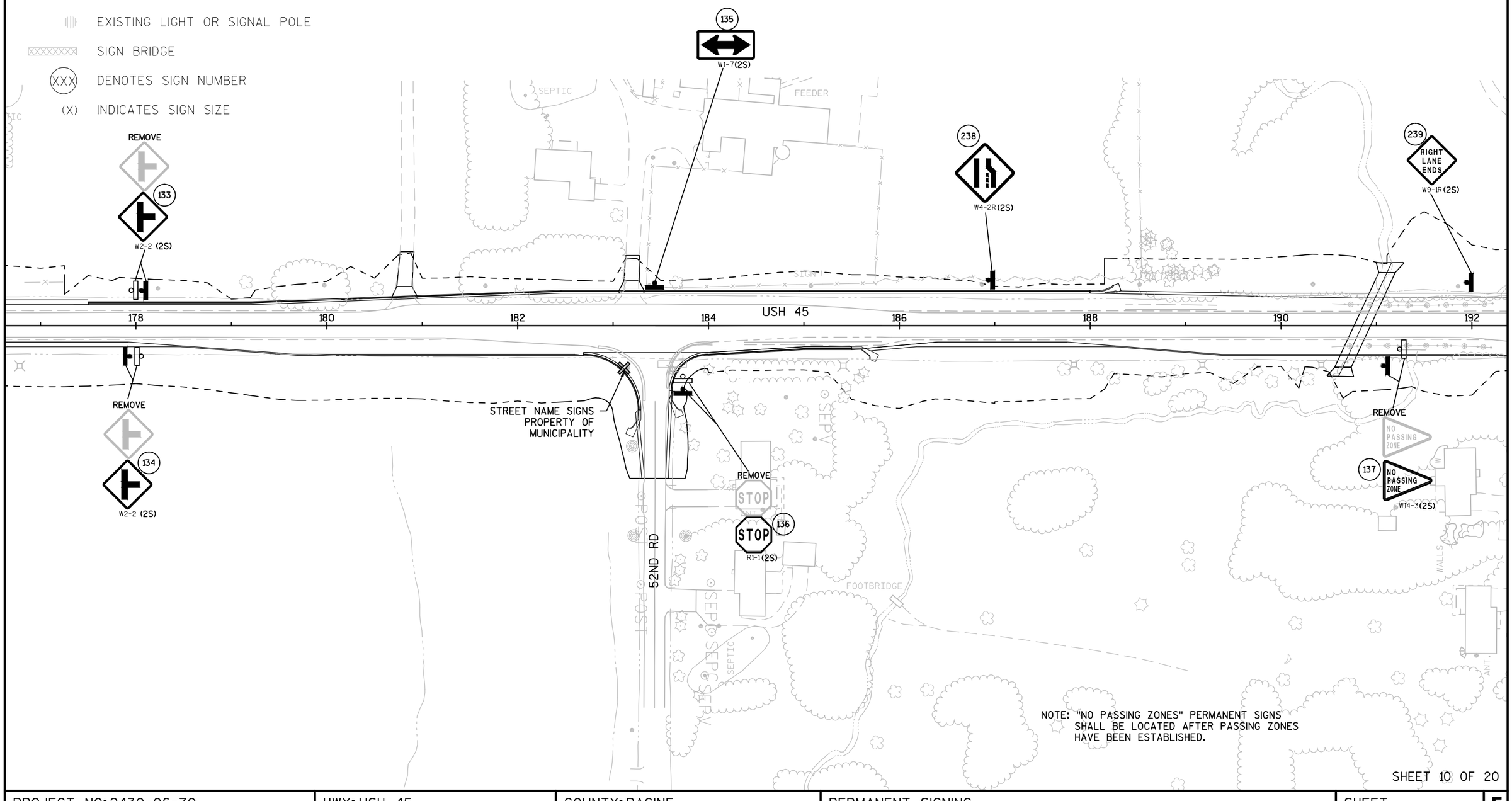
SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

2



NOTE: "NO PASSING ZONES" PERMANENT SIGNS SHALL BE LOCATED AFTER PASSING ZONES HAVE BEEN ESTABLISHED.

SHEET 10 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 169	E

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

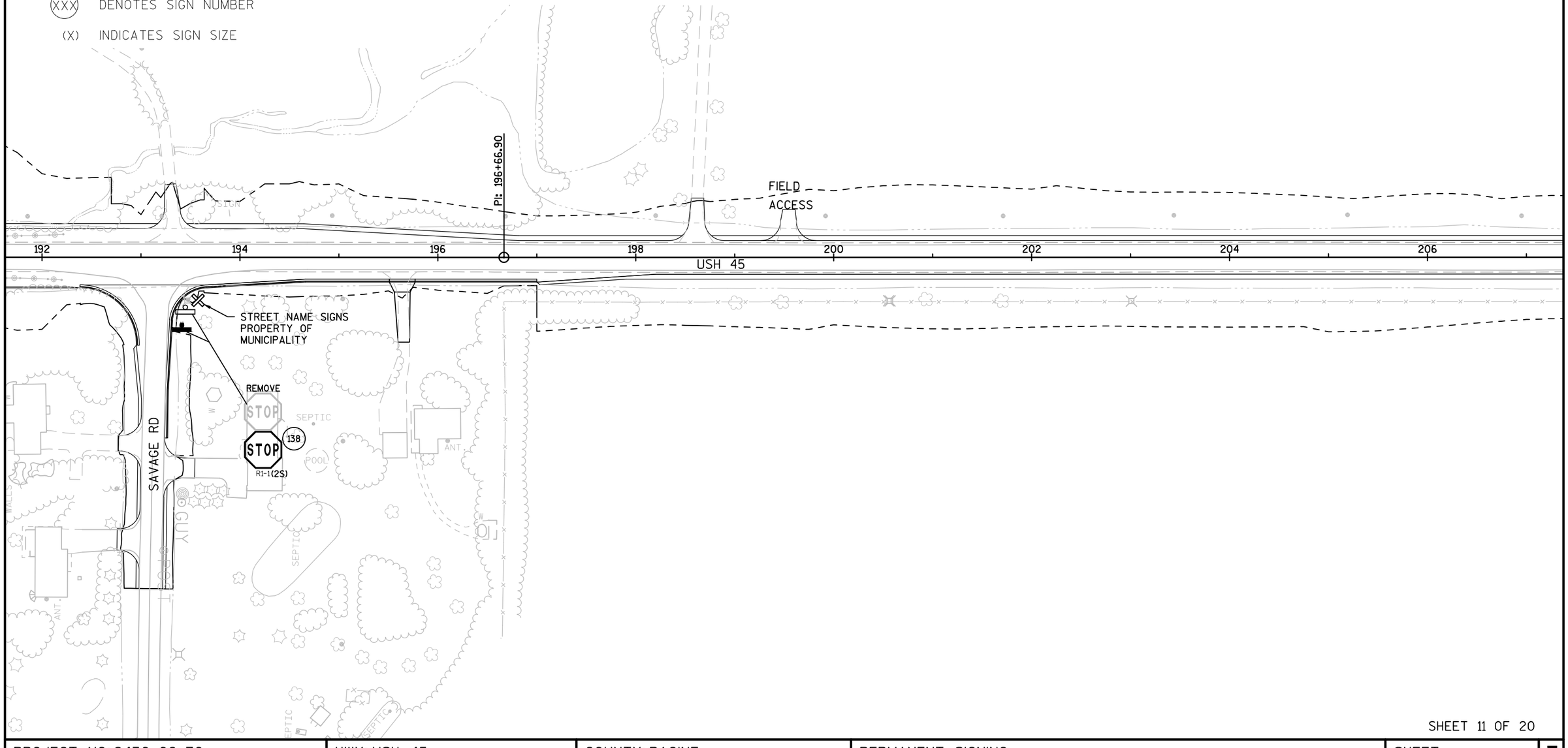
EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N



SHEET 11 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 170	E

FILE NAME : N:\PDS\C3D\CAD\24300600\SIGN\023201_PS.DWG
LAYOUT NAME - 023211_PS

PLOT DATE : 12/5/2016 1:05 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:100 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

SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

2

REMOVE
NO PASSING ZONE
141 NO PASSING ZONE
W14-3(2S)

REMOVE
SPEED LIMIT 55
142 SPEED LIMIT 55
R2-1(2S)

REMOVE
SOUTH 45
143 SOUTH 45
M1-4
J4-1(2S)

230 231
W2-1(2S)

STREET NAME SIGNS
PROPERTY OF
MUNICIPALITY

208 210 212 214 216 218 220 222

USH 45

REMOVE
140 WEST EAST
COUNTY A COUNTY A

REMOVE
144 WEST EAST
COUNTY A COUNTY A
WEST EAST
COUNTY A COUNTY A
J3-2(2S)

REMOVE
JCT
COUNTY A
139 JCT
COUNTY A
J1-1(2S)

NOTE: "NO PASSING ZONE" SIGNS SHALL BE LOCATED AFTER PASSING ZONES HAVE BEEN ESTABLISHED.

SHEET 12 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 171	E

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

SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

REMOVE JCT 45 — 145 — JCT 45 — J1-1(2S)

REMOVE 45 — 148 — 45 — J13-1(2S)

REMOVE WEST COUNTY A — 150 — WEST COUNTY A — J4-1(2S)

149 REMOVE DO NOT ENTER / DO NOT ENTER — R5-1(2S) — DO NOT PLACE BEHIND STOP SIGN. PLACE NEXT TO SIGN.

CTH A

STOP — 146 — R1-1(3) — TRAFFIC ON 45 DOES NOT STOP — 147 — W4-4C(3)

REMOVE STOP — TRAFFIC ON 45 DOES NOT STOP

STOP — 151 — R1-1(3) — TRAFFIC ON 45 DOES NOT STOP — 152 — W4-4C(3) ON NEW SIGNAL POLE SEE DETAIL

REMOVE EAST WEST COUNTY A — 153 — EAST WEST COUNTY A — J3-2(2S)

PI: 223+00.09

162 REMOVE EAST WEST COUNTY A

REMOVE JCT COUNTY A — 163 — JCT COUNTY A — J1-1(2S)

REMOVE — 164 — 165 — W2-1(2S)

222 224 226 228 230 232 234 236

USH 45

FIELD ACCESS

FIELD ACCESS

154 STOP — R1-1(3) — 155 TRAFFIC ON 45 DOES NOT STOP — W4-4C(3) ON NEW SIGNAL POLE SEE DETAIL

REMOVE STOP — TRAFFIC ON 45 DOES NOT STOP

STOP — 158 — R1-1(3) — TRAFFIC ON 45 DOES NOT STOP — 159 — W4-4C(3)

REMOVE DO NOT ENTER / DO NOT ENTER — 157 — R5-1(2S) — PLACE NEXT TO STOP SIGN, NOT BEHIND.

REMOVE EAST COUNTY A — 156 — EAST COUNTY A — J4-1(2S)

CTH A

REMOVE 45 — 160 — 45 — J13-1(2S)

REMOVE JCT 45 — JCT 45 — 161 — J1-1(2S)

SHEET 13 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 172	E

FILE NAME : N:\PDS\C3D\CAD\24300600\SIGN\023201_PS.DWG
LAYOUT NAME - 023213_PS

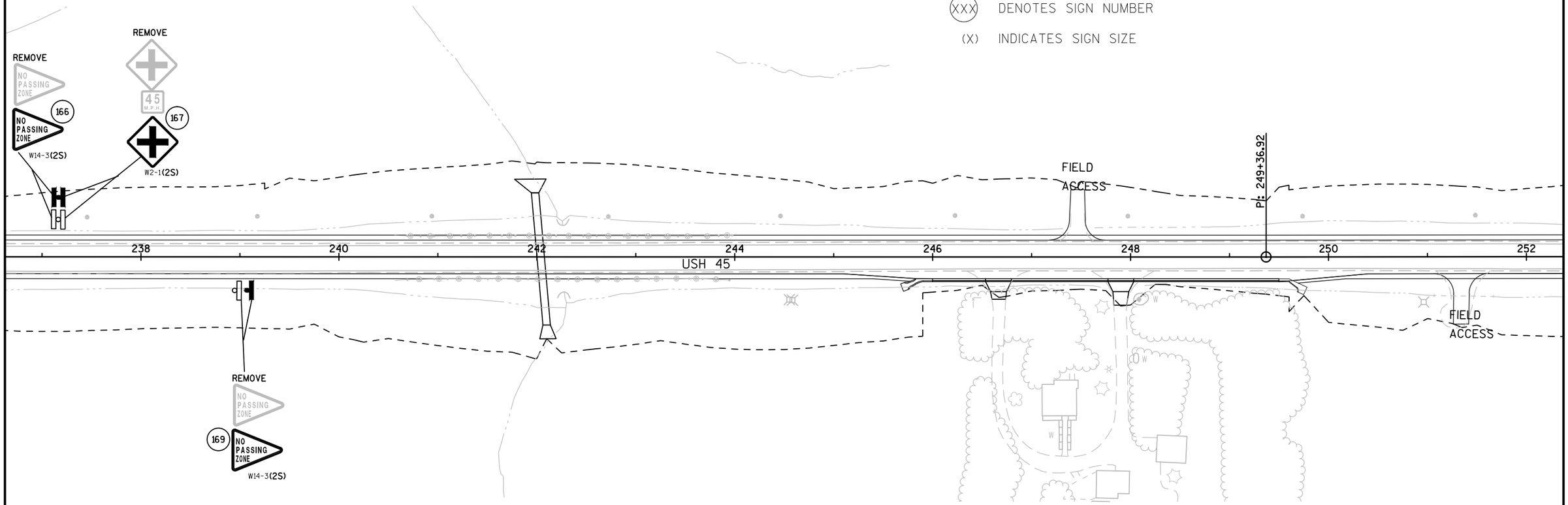
PLOT DATE : 12/5/2016 1:05 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

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
- SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N



NOTE: "NO PASSING ZONE" SIGNS SHALL BE LOCATED AFTER PASSING ZONES HAVE BEEN ESTABLISHED.

SHEET 14 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 173	E

FILE NAME : N:\PDS\C3D\CAD\24300600\SIGN\023201_PS.DWG
LAYOUT NAME - 023214_PS

PLOT DATE : 12/5/2016 1:05 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:100 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

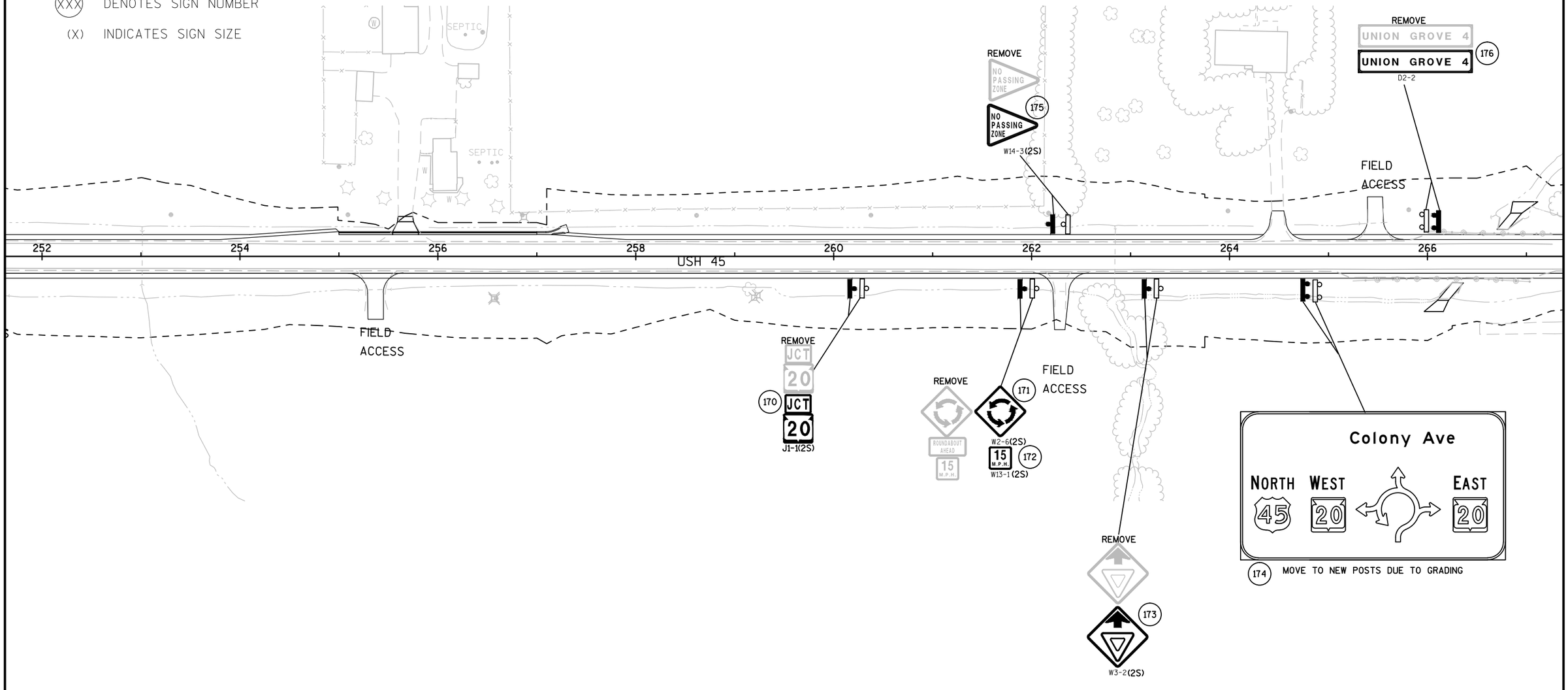
EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N



NOTE: "NO PASSING ZONE" SIGNS SHALL BE LOCATED AFTER PASSING ZONES HAVE BEEN ESTABLISHED.

SHEET 15 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 174	E

FILE NAME : N:\PDS\C3D\CAD\24300600\SIGN\023201_PS.DWG
LAYOUT NAME - 023215_PS

PLOT DATE : 12/5/2016 1:05 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:100 FT

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

SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

REMOVE

178

W6-3(2S)

177

SPONSOR
SPONSOR1
SPONSOR2
SPONSOR3

I55-56

DO NOT REPLACE SIGN.
SIGN IS PART OF SEPARATE PROGRAM.

268 270 272 274 276 278 280

USH 45

STH 20

PI: 275+48.01

PI: 275+71.72

SEPTIC

SIGN

INL

MH

REMOVE

Milwaukee
Waterford

Racine

FIELD ACCESS

179

Milwaukee
Waterford

Racine

D1-3

SHEET 16 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 175	E

FILE NAME : N:\PDS\C3D\CAD\24300600\SIGN\023201_PS.DWG
LAYOUT NAME - 023216_PS

PLOT DATE : 12/5/2016 1:05 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

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

SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

CANOPY

CTH C

SUBSTATION

FROST

3+00 44+00 45+00 46+00 47+00 48+00 49+00

200' 200' 200'

181 JCT 45 J1-1(2S)

182 W2-6(2S) 16"X16" TEMPORARY ORANGE FLAGS

183 15 M.P.H. W13-1(2S)

187 MOVE SPONSOR SPONSOR1 SPONSOR2 SPONSOR3 I55-56

188 SPEED LIMIT 45 R2-1(2S)

REMOVE COUNTY C SPEED LIMIT 45

232 DO NOT ENTER R5-1(2S)

233 WRONG WAY R5-1A(2S)

180 REMOVE

184 EAST C NORTH 45 SOUTH 45 D1-62

REMOVE JCT 45 185

186 W3-2(2S) 16"X16" ORANGE FLAGS

189 R4-7(2S)

190 W5-54S(2S) SEE DETAIL

234 R3-4(2S)

SHEET 17 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 176 E

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
- SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

193 COUNTY C
M1-5A (2S)

191 Wis Veterans Cemetery
192 Wis Veterans Home
MOVE PROPERTY OF COUNTY

194 ONE WAY
R6-2-R(2S)

195 NORTH 45 SOUTH 45
REMOVE

STREET NAME SIGNS
PROPERTY OF MUNICIPALITY

47+00 48+00 49+00 51+00 52+00 136+00 137+00 138+00 139+00 135+00

CTH C

USH 45

N

SIGN

CANOPY

FILLER CAPS

TATION

SHEET 18 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 177 E

FILE NAME : N:\PDS\C3D\CAD\24300600\SIGN\023204_PS.DWG
LAYOUT NAME - 023218_PS

PLOT DATE : 1/31/2017 9:02 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

SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

USH 45

138+00

137+00

51+00

52+00

53+00

54+00

55+00

56+00

CTH C

196 SOUTH NORTH 45 45
REMOVE

REMOVE JCT 45 197

198 ONE WAY R6-2 R(2S)

199

235 R3-4(2S)

206 COUNTY C M1-5A(2S)

REMOVE 205 SPEED LIMIT 45 R2-1(2S)

204 WRONG WAY R5-1A(2S)

MOVE 203 I55-56
DO NOT REPLACE SIGN.
SIGN IS PART OF SEPARATE PROGRAM.

202 DO NOT ENTER R5-1(3)

200 R4-7(2S)

201 W5-54S(2S)
SEE DETAIL

USH 45

SHEET 19 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 178	E

FILE NAME : N:\PDS\C3D\CAD\24300600\SIGN\023204_PS.DWG
LAYOUT NAME - 023219_PS

PLOT DATE : 12/5/2016 2:58 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

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
- SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

207 W3-2(2S) 16"X16" ORANGE FLAGS

208 REMOVE

209 WEST C SOUTH 45 NORTH 45 D1-62

210 W2-6(2S) 16"X16" TEMPORARY ORANGE FLAGS

211 15 M.P.H. W13-1(2S)

ESTR SPEED LIMIT 45

212 JCT 45 J1-1(2S)

150'

55+00 56+00 57+00 58+00 59+00 60+00 61+00

CTH C

ESTR SPEED LIMIT 55

SIGN

SIGN

RUINS

SHEET 20 OF 20

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PERMANENT SIGNING	SHEET 179 E

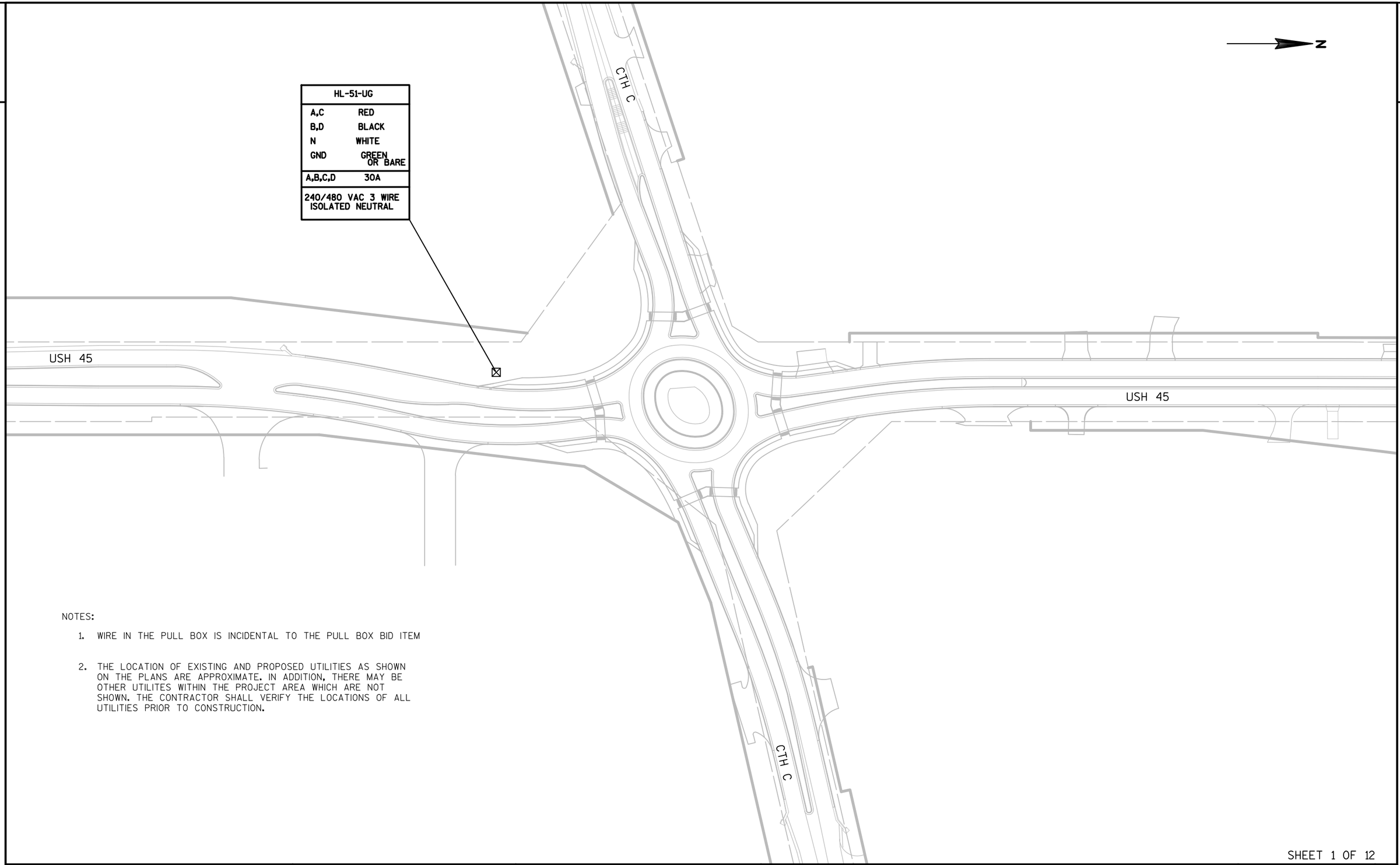
FILE NAME : N:\PDS\C3D\CAD\24300600\SIGN\023204_PS.DWG
LAYOUT NAME - 023220_PS

PLOT DATE : 12/5/2016 2:58 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

HL-51-UG	
A,C	RED
B,D	BLACK
N	WHITE
GND	GREEN OR BARE
A,B,C,D	30A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	



NOTES:

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

2. THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

2

GENERAL NOTES:

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

1. DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THESE DRAWINGS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

2. LOCATIONS OF THE PVC CONDUITS ARE INDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. HOWEVER, INSTALLATION WILL REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. UNDER THE APPROVAL OF THE ENGINEER, APPROPRIATE ADJUSTMENT OF CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RE TO ILLUSTRATE AS BUILT CONDITIONS.

3 THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

4. ALL OPEN AND UNTERMINATED CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATLY AFTER INSTALLATION.

5. BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

6. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.

7. PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT THAT CAN BE EASILY REMOVED. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

8. CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX, JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.

9. PULL ROPE (3#8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.

10. CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS (PDF FORMAT) FOR ALL THE WORK BEING DONE.

11. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION.

12. UNDERGROUND WIRE & CONDUIT SHOWN ON REMOVAL PLANS FOR REMOVAL SHALL BE ABANDONED IN PLACE UNLESS DIRECTED BY THE ENGINEER. CONTRACTOR MAY CHOOSE TO REMOVE CONDUCTOR AT THEIR OWN EXPENSE.

13. PROVIDE MINIMUM CABLE SLACK AS MENTIONED BELOW:

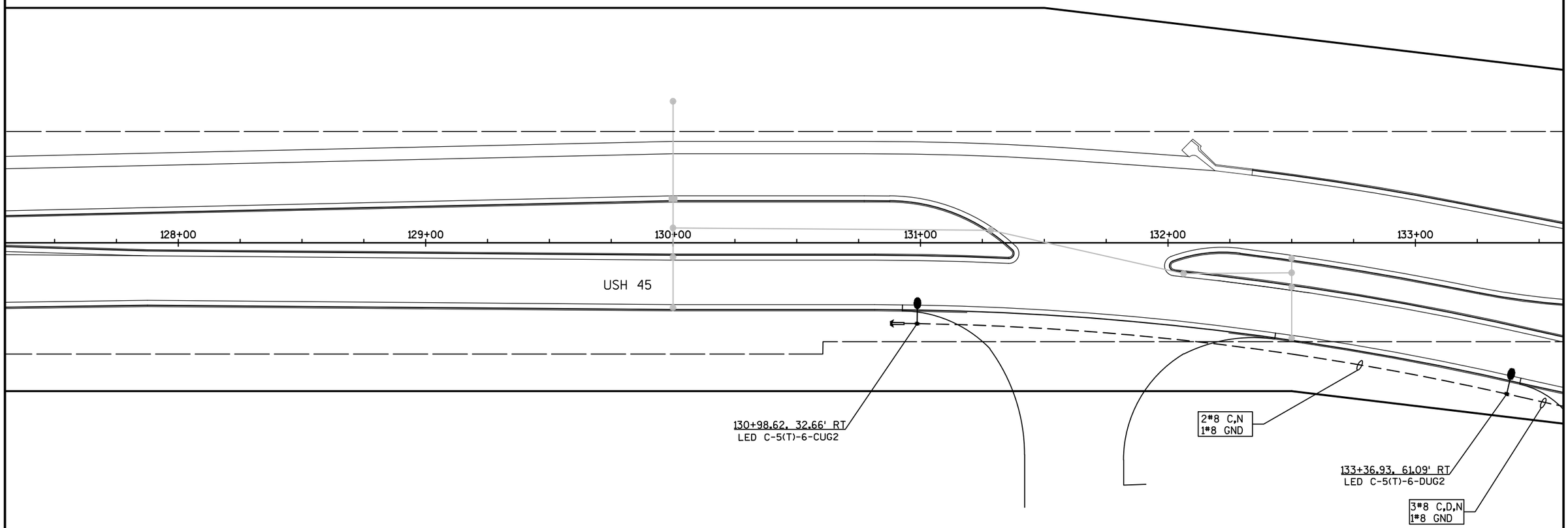
PULL BOXES:	10-FT
EMBEDDED JUCTION BOXES:	3-FT
DISTRIBUTION CENTER/LOAD CENTER:	10-FT
POLES:	5-FT IN AND 5-FT OUT

2

LEGEND

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

N



STATION — OFFSET

100+00.00, (100.00RT)

LED C A(T) 4 ANS1

- ANS1 — CIRCUIT, SOURCE, POLE *
- 4 — ARM LENGTH
- A(T) — POLE TYPE ON T-BASE
- C — LUMINAIRE CATEGORY
- LED — LUMINAIRE SOURCE

SHEET 3 OF 12

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	LIGHTING PLAN	SHEET 182 E

LEGEND

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

N

128+00 129+00 130+00 131+00 132+00 133+00

USH 45

130+98.62, 32.66' RT
LED C-5(T)-6-CUG2

2#8 C,N
1#8 GND

133+36.93, 61.09' RT
LED C-5(T)-6-DUG2

3#8 C,D,N
1#8 GND

STATION — OFFSET
100+00.00, (100.00RT)
LED C A(T) 4 ANS1
- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

SHEET 4 OF 12

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACIUNE	LIGHTING PLAN - SCHEMATIC	SHEET 183	E

LEGEND

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

N

3" CONDUIT
3*8 A,B,N
1*8 GND

48+19.84, 41.47' RT
LPB102

(2) 3*8 A,B,N
(2) 1*8 GND

48+56, 53.0' RT
LED C-5(T)-15-BUG1

3*8 A,B,N
1*8 GND

134+95.59, -9.59' LT
LPB101

(2) 3*8 A,B,N, C,D,N
(2) 1*8 GND
(2) 3" CONDUIT

134+50.07, -11.05' LT
HL-51-UG
240/480 VAC-3WIRE

135+64.79, -21.78' LT
LED C -5(T)-15-AUG1

3*8 A,B,N
1*8 GND

134+00 135+00 136+00 137+00 138+00 139+00

CTH C

49+00

3*8 A,B,N
1*8 GND

49+31.36, -34.37' LT
LED C-5(T)-15-AUG3

CONTAMINATED SOIL, SEE SPECIAL PROVISION
FOR HANDLING AND DISPOSAL

137+83.50, -21.31' LT
LED C-5(T)-15-BUG3

3*8 A,B,N
1*8 GND

3*8 A,B,N
1*8 GND

BP STA 50+00.00

EP STA 50+00.00

3*8 C,D,N
1*8 GND
3" CONDUIT

USH 45

3*8 C,D,N
1*8 GND

134+97.96, 75.39' RT
LPB104

3*8 C,D,N
3*8 C,D,N
(2) 1*8 GND

135+35.87, 81.67' RT
LED C-5(T)-15-CUG1

3*8 C,D,N
1*8 GND

51+14.59, 84.03' RT
LED C-5(T)-15-DUG1

51+36.52, 78.76' RT
LPB105

3"CONDUIT
3*8 C,D,N
1*8 GND

CTH C

51+00

50+95.40, -54.85' LT
LED C-5(T)-15-DUG3

2*8 D,N
1*8 GND

51+36.52, -13.97' LT
LPB106

3*8 C,D,N
2*8 D,N
(2) 1*8 GND

51+66.05, -18.41' LT
LED C-5(T)-15-CUG3

3*8 C,D,N
1*8 GND

STATION — OFFSET
100+00.00, (100.00RT)
LED C A(T) 4 ANS1
- CIRCUIT, SOURCE, POLE *
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

SHEET 5 OF 12

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	LIGHTING PLAN	SHEET 184	E

LEGEND

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

N

3" CONDUIT
3*8 A,B,N
1*8 GND

48+19.94, 41.47' RT
LPB102

(2) 3*8 A,B,N
(2) 1*8 GND

48+56, 53.0' RT
LED C-5(T)-15-BUG1

CTH C

3*8 A,B,N
1*8 GND

49+00

134+95.59, -9.59' LT
LPB101

(2) 3*8 A,B,N, C,D,N
(2) 1*8 GND
(2) 3" CONDUIT

3*8 A,B,N
1*8 GND

134+50.07, -11.05' LT
HL-51-UG
240/480 VAC-3WIRE

135+64.79, -21.78' LT
LED C -5(T)-15-AUG1

3*8 A,B,N
1*8 GND

49+31.36, -34.37' LT
LED C-5(T)-15-AUG3

CONTAMINATED SOIL, SEE SPECIAL PROVISION
FOR HANDLING AND DISPOSAL

137+83.50, -21.31' LT
LED C-5(T)-15-BUG3

3*8 A,B,N
1*8 GND

3*8 A,B,N
1*8 GND

BEP 50+00.00

134+00 135+00 136+00 137+00 138+00 139+00

3*8 C,D,N
1*8 GND
3" CONDUIT

USH 45

3*8 C,D,N
1*8 GND

134+97.96, 75.39' RT
LPB104

3*8 C,D,N
3*8 C,D,N
(2) 1*8 GND

135+35.87, 81.67' RT
LED C-5(T)-15-CUG1

3*8 C,D,N
1*8 GND

51+14.59, 84.03' RT
LED C-5(T)-15-DUG1

51+36.52, 78.76' RT
LPB105

3" CONDUIT
3*8 C,D,N
1*8 GND

CTH C

51+00

52+00

50+95.40, -54.85' LT
LED C-5(T)-15-DUG3

2*8 D,N
1*8 GND

51+36.52, -13.97' LT
LPB106

3*8 C,D,N
2*8 D,N
(2) 1*8 GND

51+66.05, -18.41' LT
LED C-5(T)-15-CUG3

3*8 C,D,N
1*8 GND

STATION — OFFSET
100+00.00, (100.00RT)
LED C A(T) 4 ANS1
- CIRCUIT, SOURCE, POLE *
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

SHEET 6 OF 12

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	LIGHTING PLAN - SCHEMATIC	SHEET 185	E

2

LEGEND

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

N

CONTAMINATED SOIL, SEE SPECIAL PROVISION
FOR HANDLING AND DISPOSAL

3*8 A,B,N
1*8 GND

139+68.29, -30.79' LT
LED C-5(T)-6-AUG4

2*8 B,N
1*8 GND

141+43.29, -31.50' LT
LED C-5(T)-6-BUG4

USH 45

138+00 139+00 140+00 141+00 142+00 143+00 144+00

STATION — OFFSET

100+00.00, (100.00RT)

LED C A(T) 4 ANS1

- CIRCUIT, SOURCE, POLE *
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

2

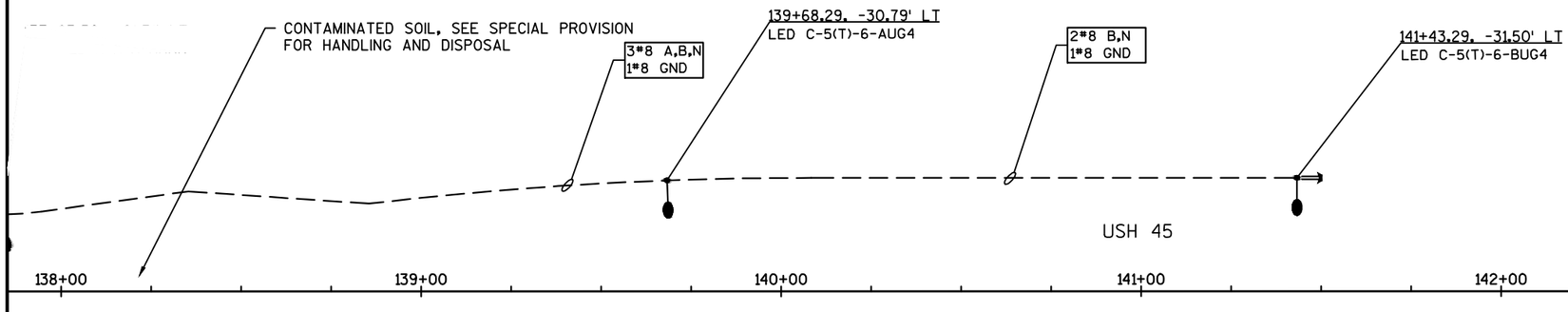
SHEET 7 OF 12

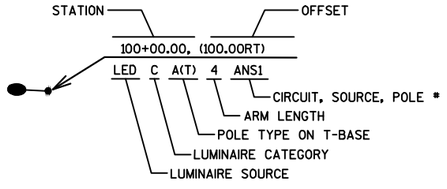
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	LIGHTING PLAN	SHEET 186	E

LEGEND

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

N





SHEET 8 OF 12

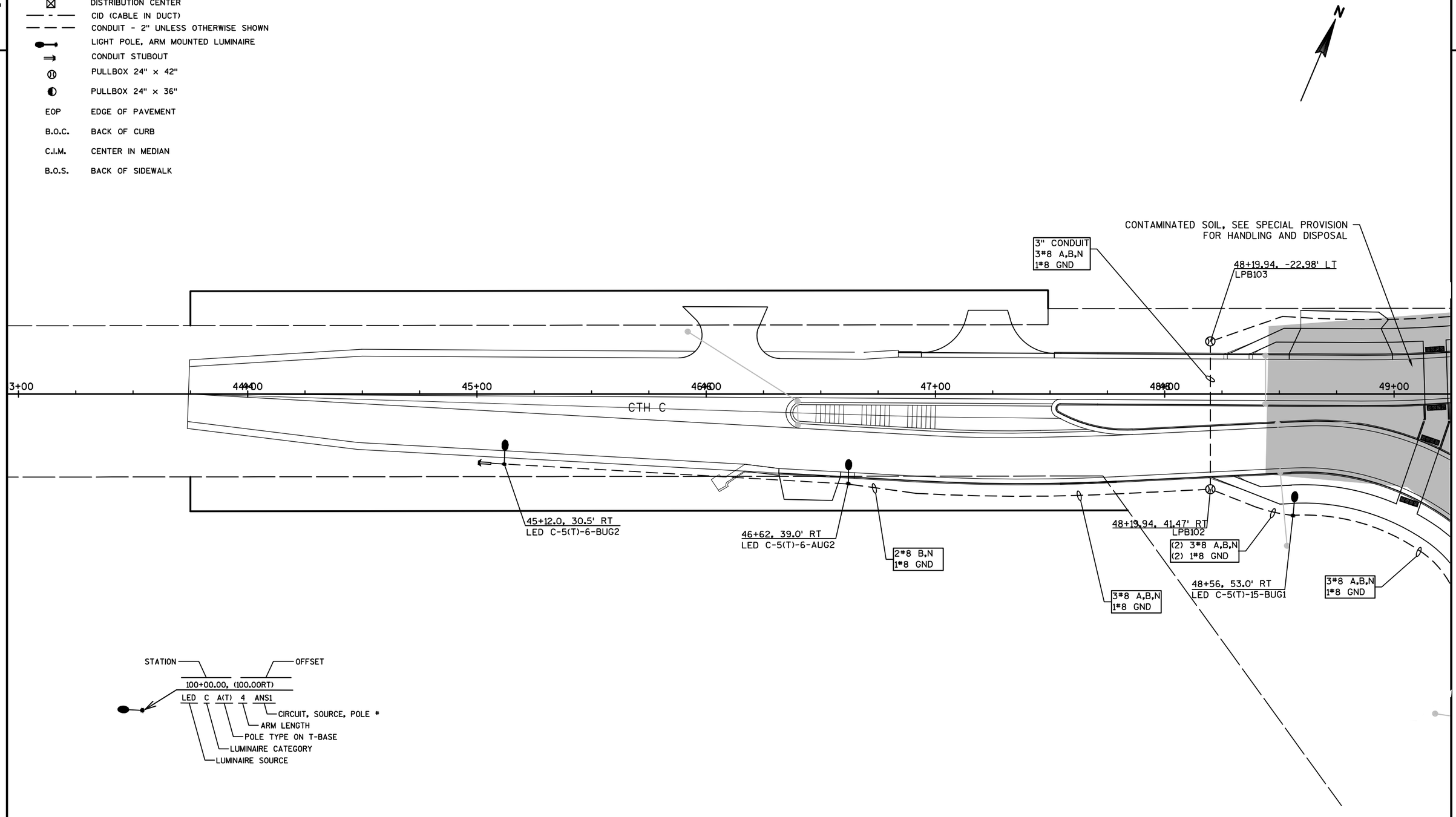
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	LIGHTING PLAN - SCHEMATIC	SHEET 187	E

2

2

LEGEND

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



SHEET 9 OF 12

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	LIGHTING PLAN	SHEET 188	E

FILE NAME : N:\PDS\C3D\CAD\24300600\LTG\023601_LP.DWG
LAYOUT NAME - 023606_LP

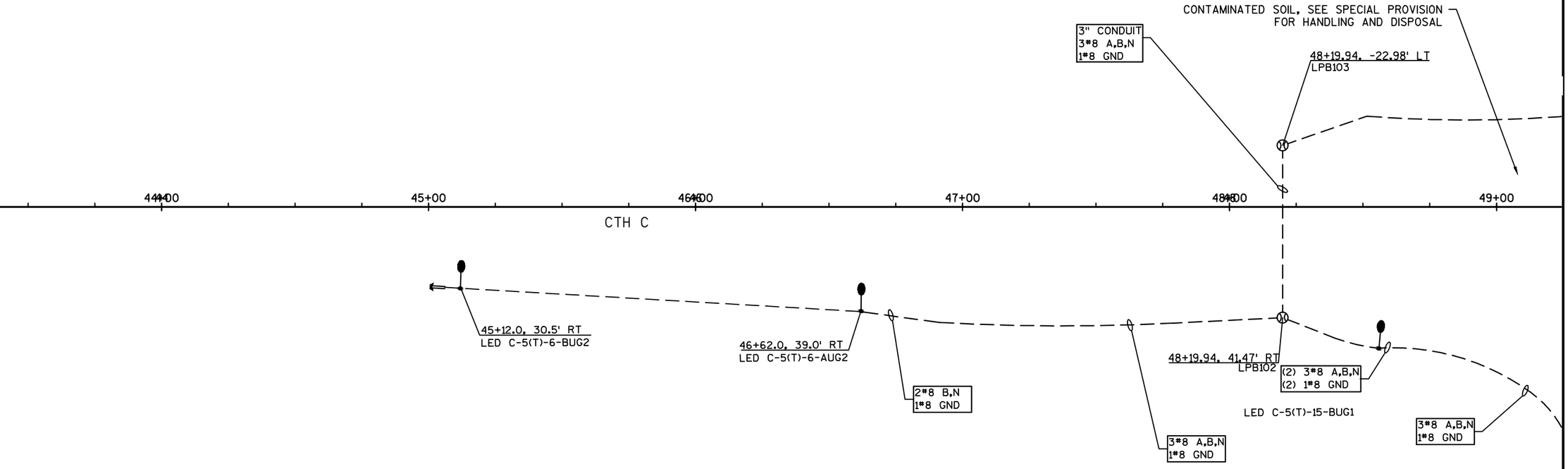
PLOT DATE : 11/29/2016 1:51 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

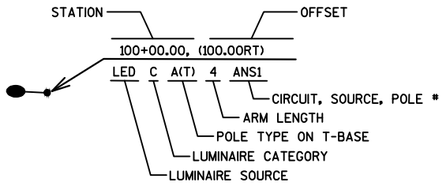
2

2

LEGEND

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





SHEET 10 OF 12

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	LIGHTING PLAN - SCHEMATIC	SHEET 189	E

FILE NAME : N:\PDS\C3D\CAD\24300600\LTG\023651_LP.DWG
LAYOUT NAME - 023606_LP

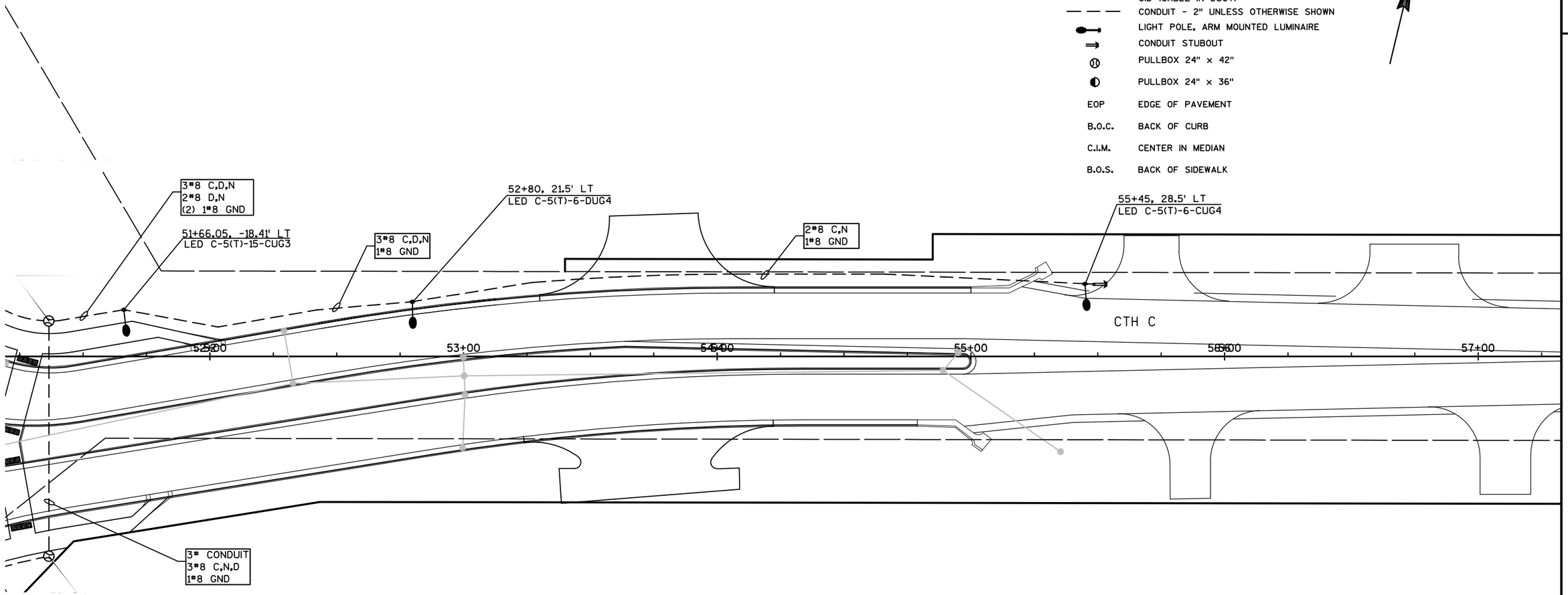
PLOT DATE : 11/29/2016 1:59 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

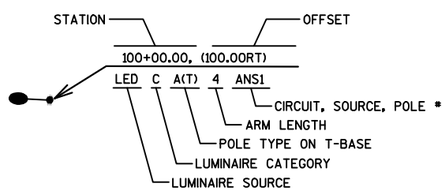
2

LEGEND

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

N





SHEET 11 OF 12

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	LIGHTING PLAN	SHEET 190	E

FILE NAME : N:\PDS\C3D\CAD\24300600\LTG\023601_LP.DWG
LAYOUT NAME - 023607_LP

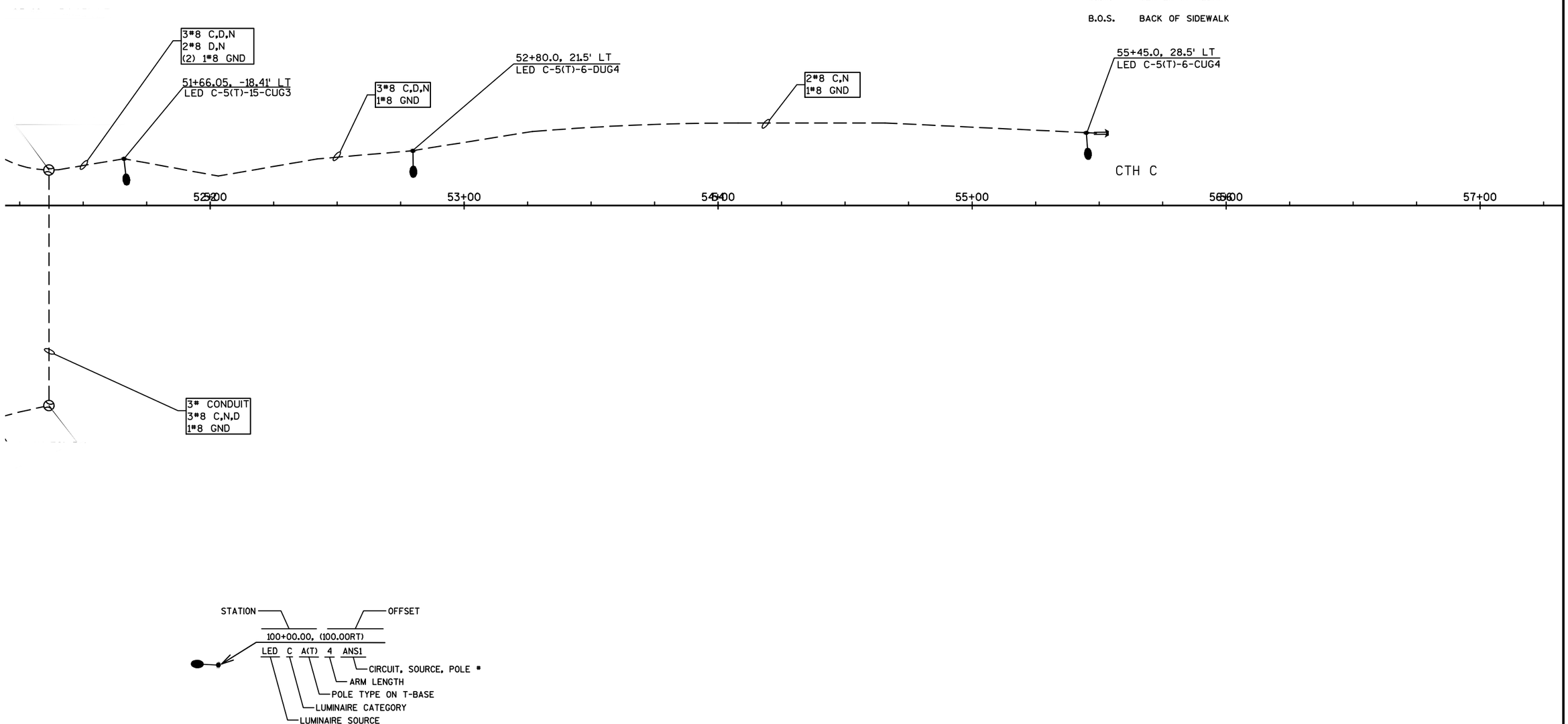
PLOT DATE : 11/29/2016 1:51 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

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

N



SHEET 12 OF 12

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	LIGHTING PLAN - SCHEMATIC	SHEET 191	E

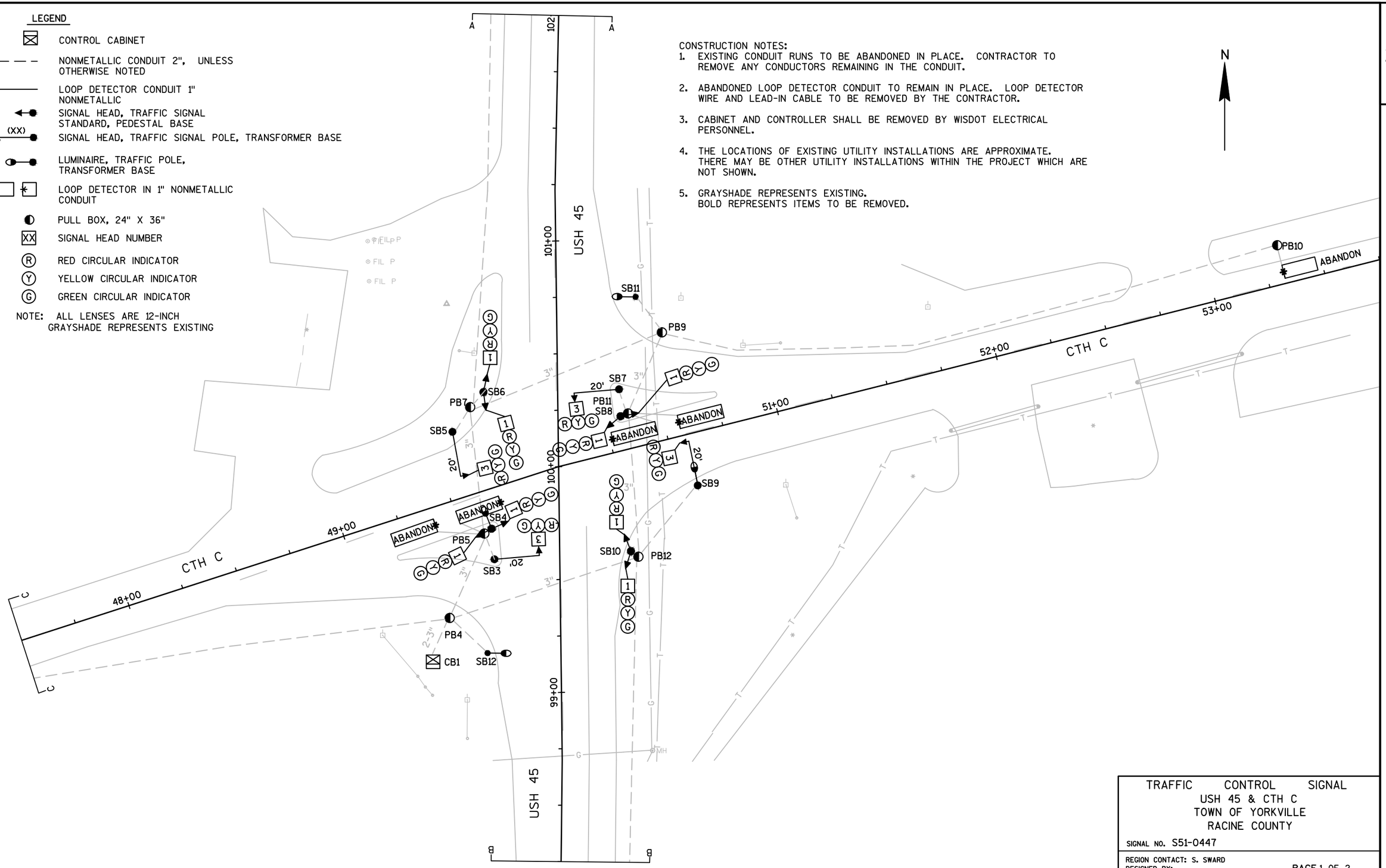
LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
3. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.
4. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
5. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.



TRAFFIC CONTROL SIGNAL
USH 45 & CTH C
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0447

REGION CONTACT: S. SWARD
DESIGNED BY:
REVISED BY: S. WAGNER

PAGE 1 OF 2

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 192	E

2

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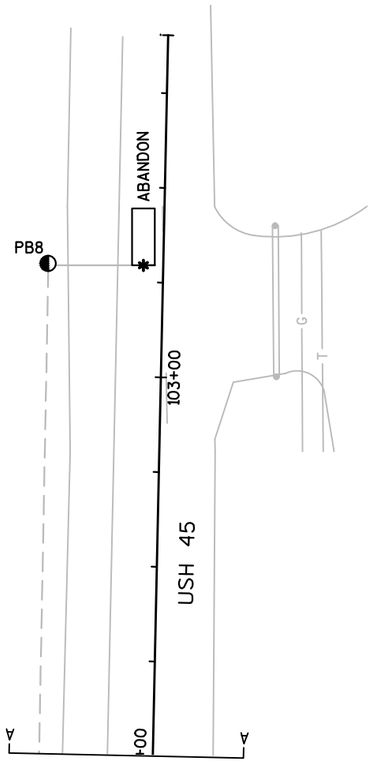
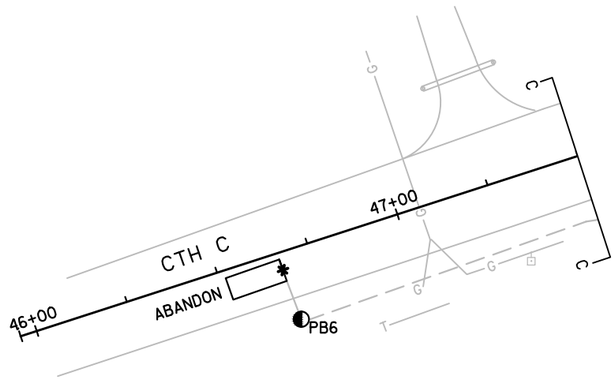
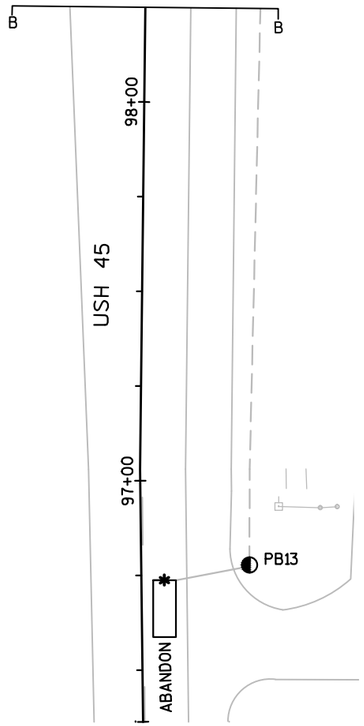






TRAFFIC CONTROL SIGNAL
USH 45 & CTH C
TOWN OF YORKVILLE
RACINE COUNTY

SIGNAL NO. S51-0447

REGION CONTACT: S. SWARD
DESIGNED BY:
REVISED BY: S. WAGNER

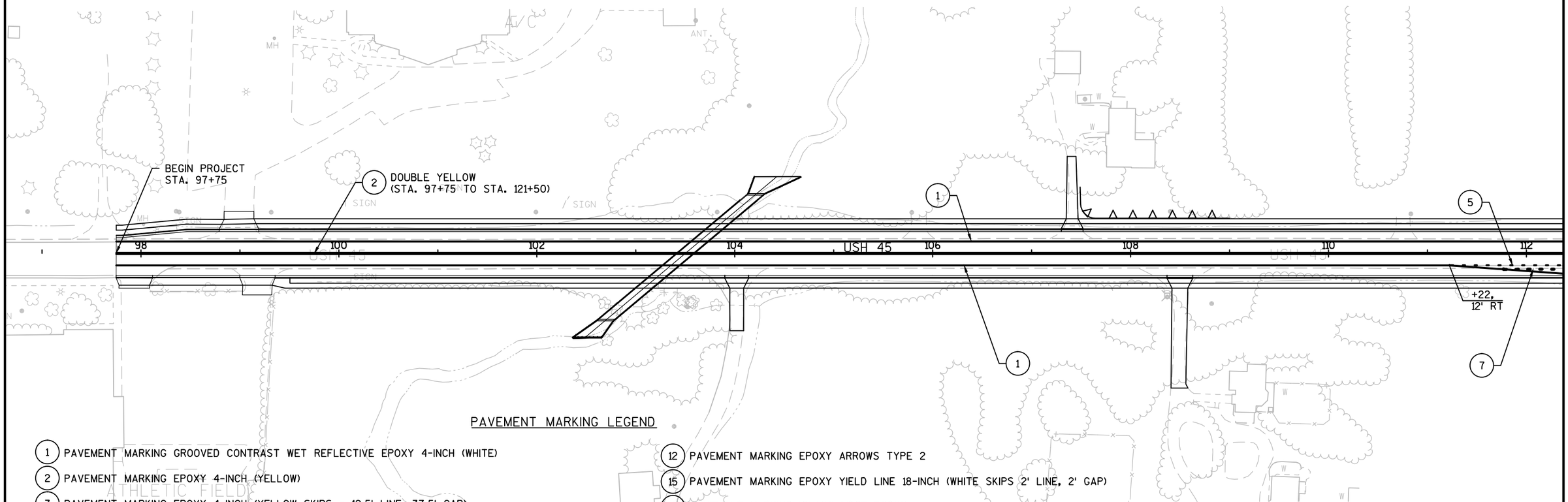
PAGE 2 OF 2

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 193	E

FILE NAME : N:\PDS\C3D\CAD\24300600\SIG\S51-0447\S51-0447_RM.DWG
LAYOUT NAME - 024002_SP
PLOT DATE : 7/6/2016 1:35 PM
PLOT BY : WAGNER, SCOTT H
PLOT NAME :
PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

2

N



PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING EPOXY 4-INCH (YELLOW SKIPS - 12.5' LINE, 37.5' GAP)
4. PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY, 4-INCH (SKIPS - 12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY, 4-INCH (SKIPS - 3' LINE, 9' GAP)
6. PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY, 8-INCH (CHANNELIZING)
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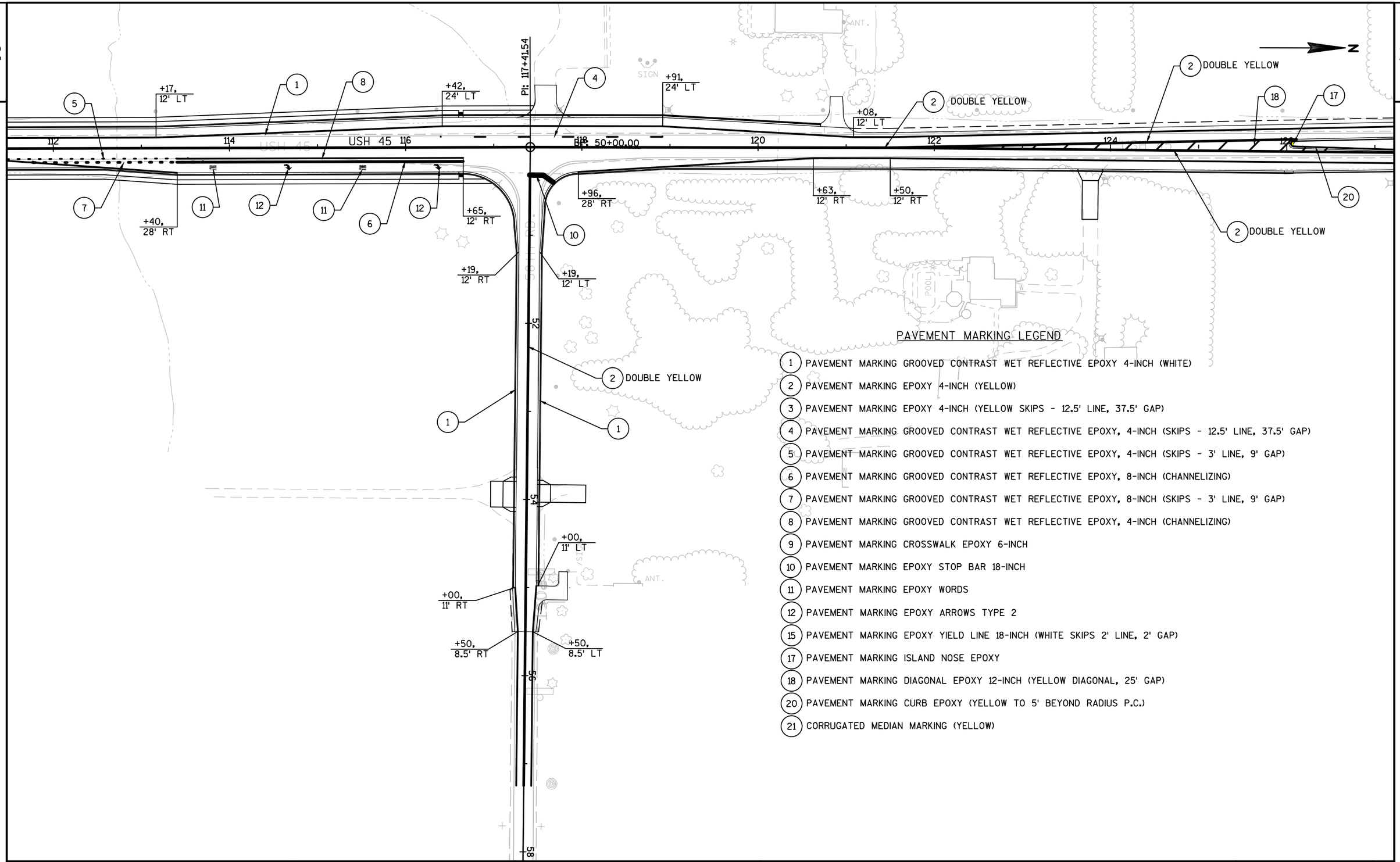
10. PAVEMENT MARKING EPOXY STOP BAR 18-INCH
11. PAVEMENT MARKING EPOXY WORDS
12. PAVEMENT MARKING EPOXY ARROWS TYPE 2
15. PAVEMENT MARKING EPOXY YIELD LINE 18-INCH (WHITE SKIPS 2' LINE, 2' GAP)
17. PAVEMENT MARKING ISLAND NOSE EPOXY
18. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW DIAGONAL, 25' GAP)
20. PAVEMENT MARKING CURB EPOXY (YELLOW TO 5' BEYOND RADIUS P.C.)
21. CORRUGATED MEDIAN MARKING (YELLOW)

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PAVEMENT MARKING	SHEET 194	E



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20. PAVEMENT MARKING CURB EPOXY (YELLOW TO 5' BEYOND RADIUS P.C.)
21. CORRUGATED MEDIAN MARKING (YELLOW)

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PAVEMENT MARKING	SHEET 195	E

2

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (WHITE)
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9. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
10. PAVEMENT MARKING EPOXY STOP BAR 18-INCH
11. PAVEMENT MARKING EPOXY WORDS

N

DOUBLE YELLOW (2)

(1) (2) DOUBLE YELLOW (17) (18) (1) (20)

MATCH LINE STA. 48+00

SEE NEXT PAGE

(1) (17) (6) (12) (11)

+37, 02' RT

+37, 09' LT

+32, 07' RT

+32, 19' RT

128 130 132 134 136 138 140 142

USH 45

BP: 50+00.00

EP: 50+00.00

+69, 07' RT

+38, 34' RT

CANOPY

FILLER CAPS

SIGN

(20) (2) DOUBLE YELLOW (20) (1)

(1) (2) DOUBLE YELLOW

(1)

PAVEMENT MARKING LEGEND

12. PAVEMENT MARKING EPOXY ARROWS TYPE 2
15. PAVEMENT MARKING EPOXY YIELD LINE 18-INCH (WHITE SKIPS 2' LINE, 2' GAP)
17. PAVEMENT MARKING ISLAND NOSE EPOXY
18. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW DIAGONAL, 25' GAP)
20. PAVEMENT MARKING CURB EPOXY (YELLOW TO 5' BEYOND RADIUS P.C.)
21. CORRUGATED MEDIAN MARKING (YELLOW)

MATCH LINE STA. 53+00

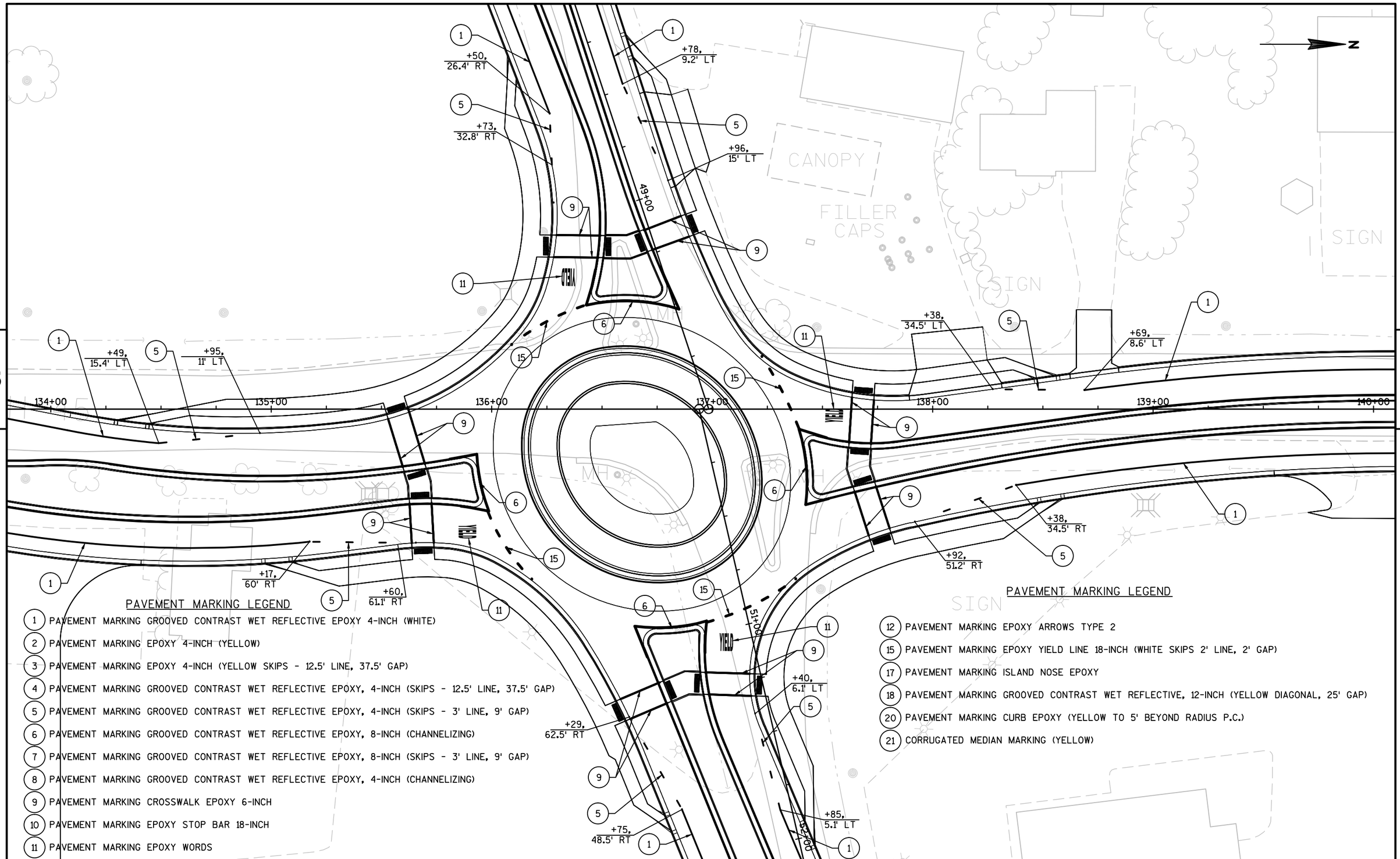
INL

FOOTBRIDGE

(1) (1) (20) (17) (2) DOUBLE YELLOW

DOUBLE YELLOW (2)

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PAVEMENT MARKING	SHEET 196	E



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PAVEMENT MARKING LEGEND

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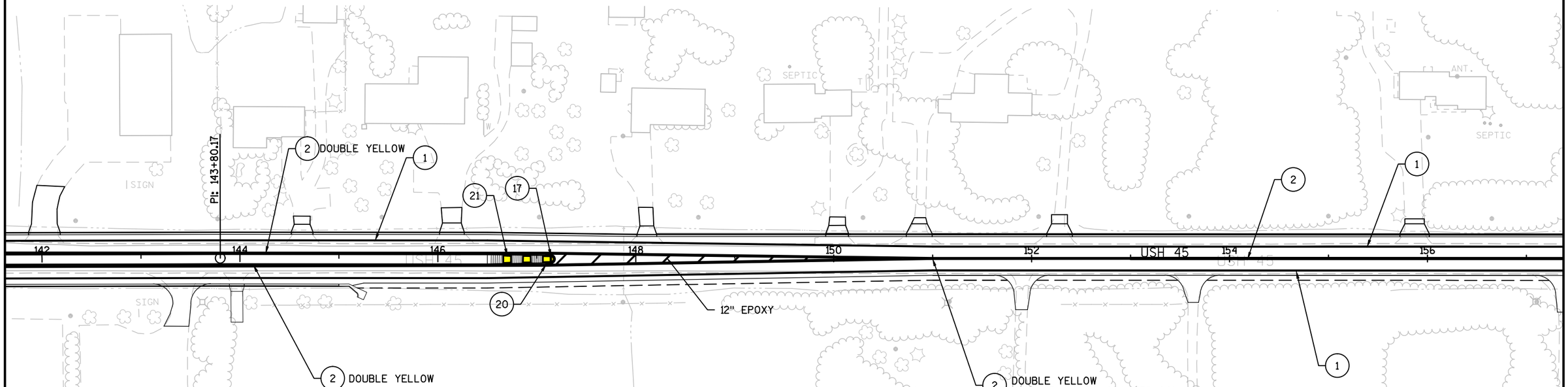
20. PAVEMENT MARKING CURB EPOXY (YELLOW TO 5' BEYOND RADIUS P.C.)
21. CORRUGATED MEDIAN MARKING (YELLOW)

PROJECT NO: 2430-60-70	HWY: USH 45	COUNTY: RACINE	PAVEMENT MARKING	SHEET 197	E

2

N



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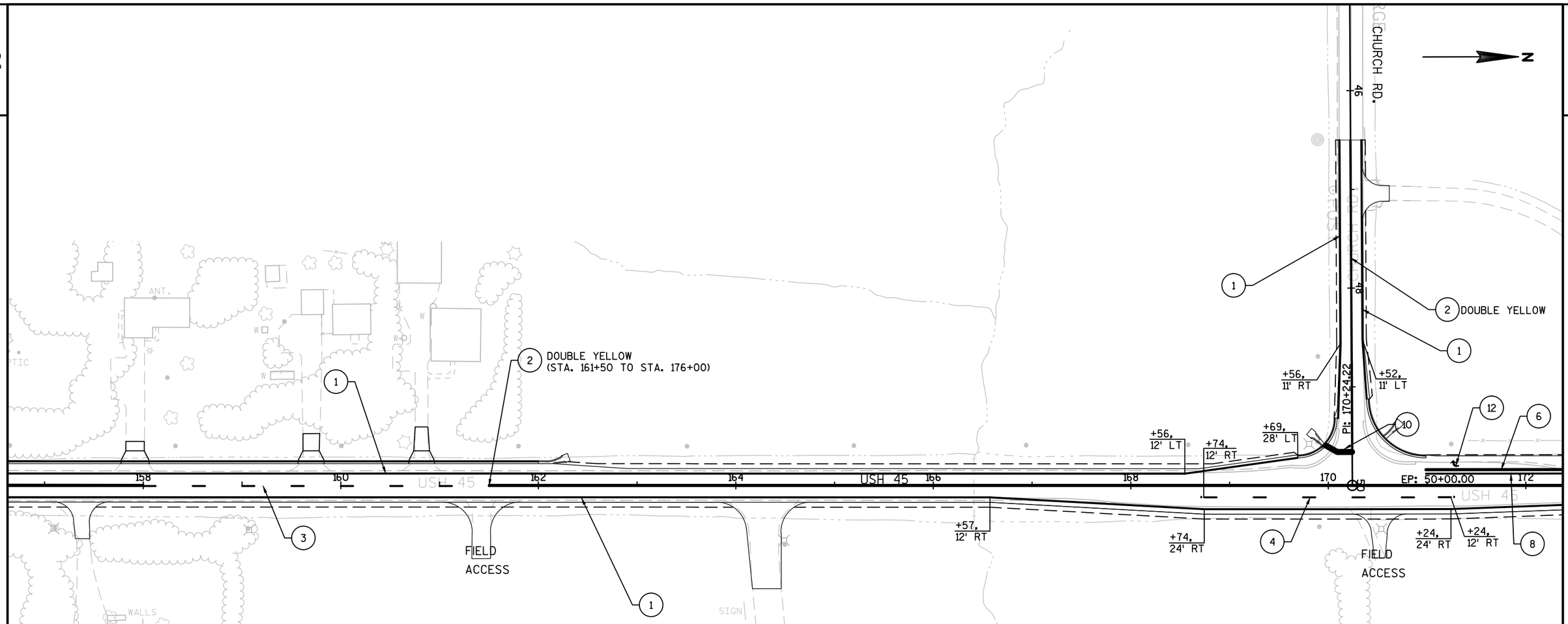
20. PAVEMENT MARKING CURB EPOXY (YELLOW TO 5' BEYOND RADIUS P.C.)
21. CORRUGATED MEDIAN MARKING (YELLOW)

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PAVEMENT MARKING	SHEET 198	E



PAVEMENT MARKING LEGEND

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21. CORRUGATED MEDIAN MARKING (YELLOW)

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PAVEMENT MARKING	SHEET 199	E

2

N

3 STA. 176+00 TO STA. 190+40

+47, 27' LT
+68, 12' LT
+85, 12' RT
+10, 24' LT
+69, 12' RT
+69, 16' RT
+49, 12' RT
+51, 12' RT
+69, 28' RT
+99, 28' RT
+13, 12' RT
+76, 13' LT
+23, 10' RT
+60, 10' LT

172 174 176 178 180 182 184 186

USH 45

STA: 50+00.00

52ND ST.

SEPTIC FEEDER SIGN I FOOTBRIDGE POST ANT.

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (WHITE)
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20. PAVEMENT MARKING CURB EPOXY (YELLOW TO 5' BEYOND RADIUS P.C.)
21. CORRUGATED MEDIAN MARKING (YELLOW)

2 DOUBLE YELLOW

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PAVEMENT MARKING	SHEET 200	E

2

PAVEMENT MARKING LEGEND

(1) PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (WHITE)
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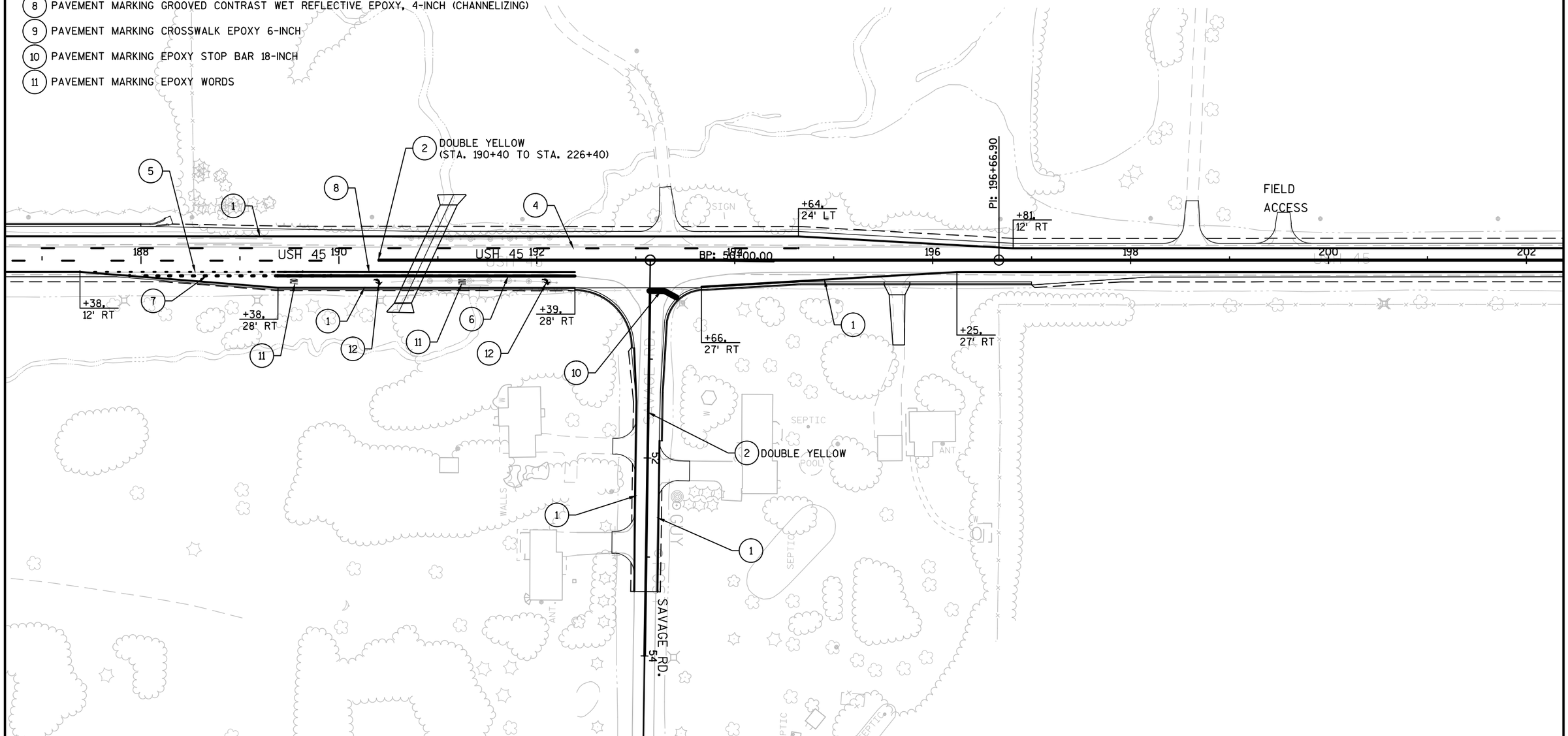
(20) PAVEMENT MARKING CURB EPOXY (YELLOW TO 5' BEYOND RADIUS P.C.)
(21) CORRUGATED MEDIAN MARKING (YELLOW)

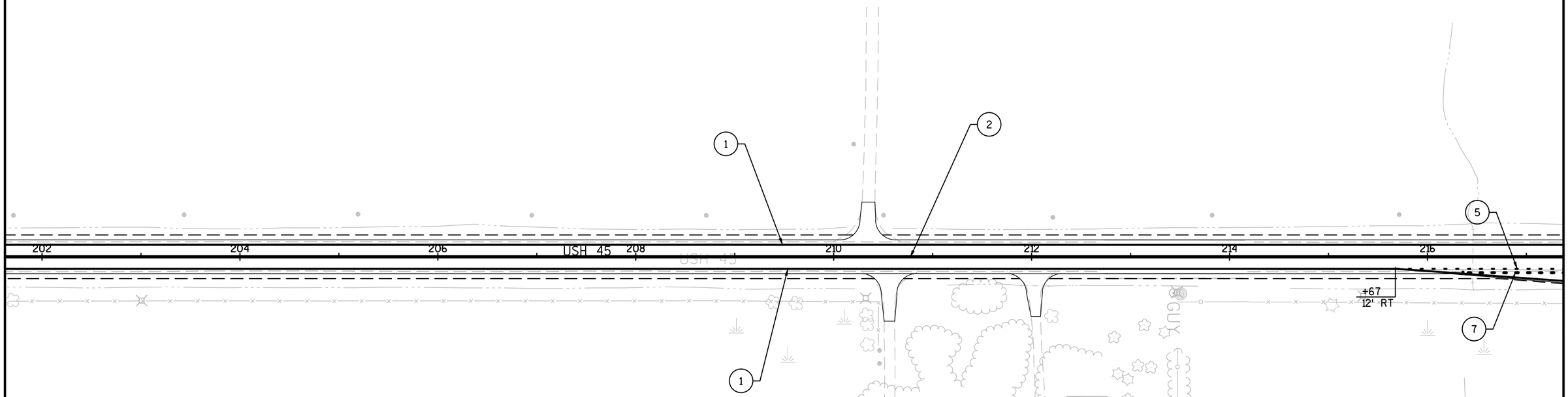
N



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PAVEMENT MARKING	SHEET 201	E

FILE NAME : N:\PDS\C3D\CAD\24300600\024501_PM.DWG
LAYOUT NAME - 024507_PM
PLOT DATE : 1/26/2017 10:25 AM PLOT BY : HAYNES, RONNIE PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PAVEMENT MARKING LEGEND

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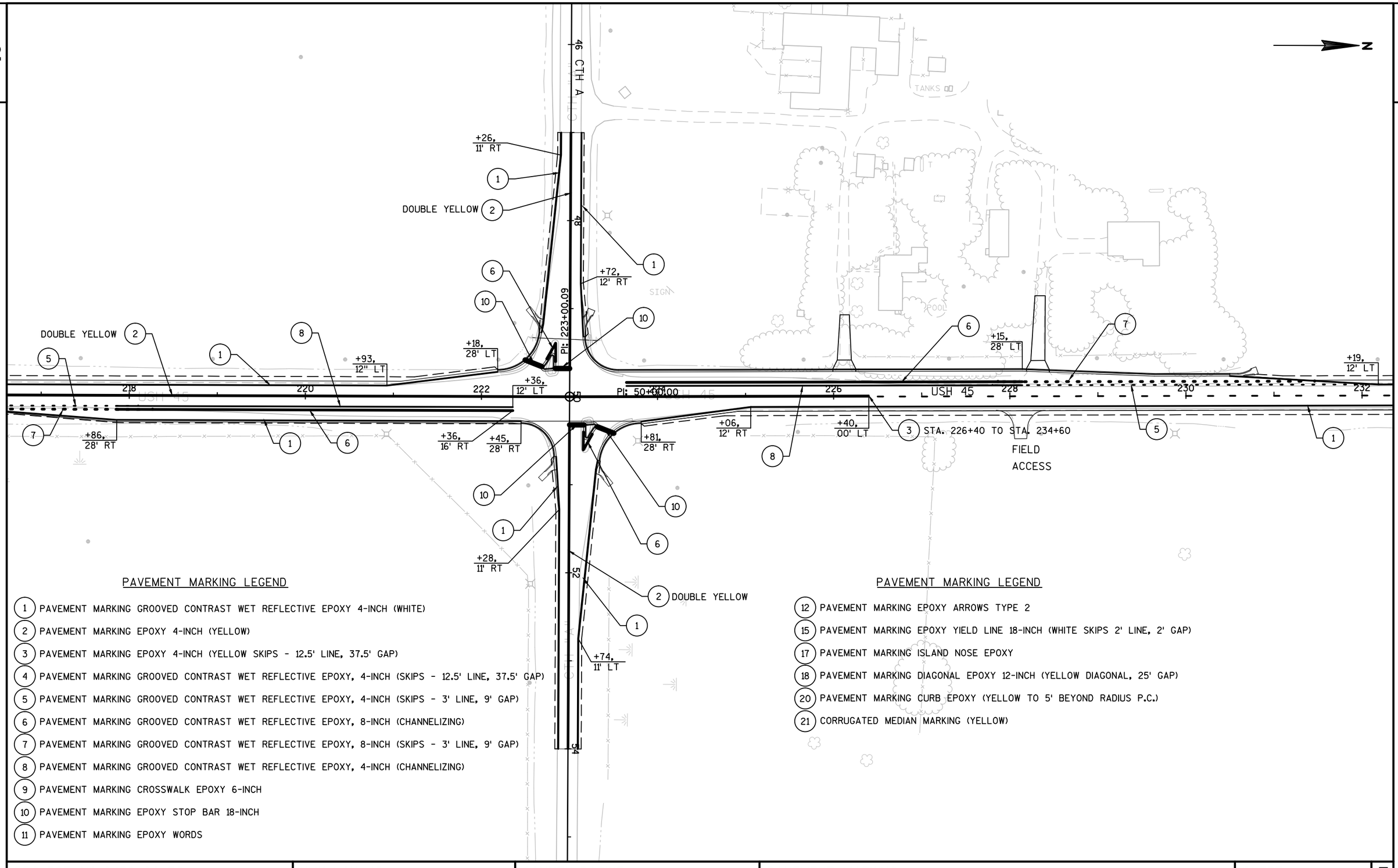
12. PAVEMENT MARKING EPOXY ARROWS TYPE 2
15. PAVEMENT MARKING EPOXY YIELD LINE 18-INCH (WHITE SKIPS 2' LINE, 2' GAP)
17. PAVEMENT MARKING ISLAND NOSE EPOXY
18. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW DIAGONAL, 25' GAP)
20. PAVEMENT MARKING CURB EPOXY (YELLOW TO 5' BEYOND RADIUS P.C.)
21. CORRUGATED MEDIAN MARKING (YELLOW)

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PAVEMENT MARKING	SHEET 202	E



PAVEMENT MARKING LEGEND

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PAVEMENT MARKING LEGEND

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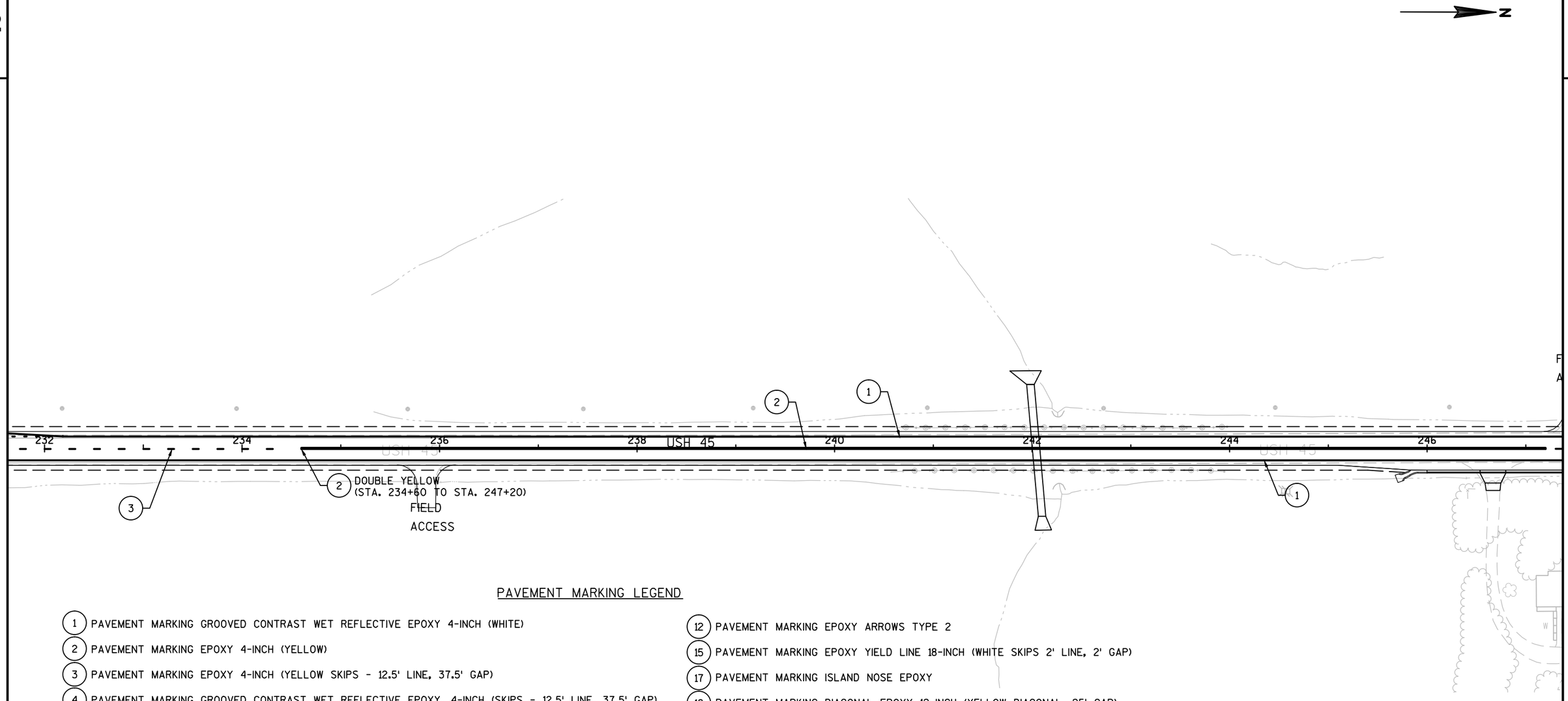
20. PAVEMENT MARKING CURB EPOXY (YELLOW TO 5' BEYOND RADIUS P.C.)
21. CORRUGATED MEDIAN MARKING (YELLOW)

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PAVEMENT MARKING	SHEET 203	E

2



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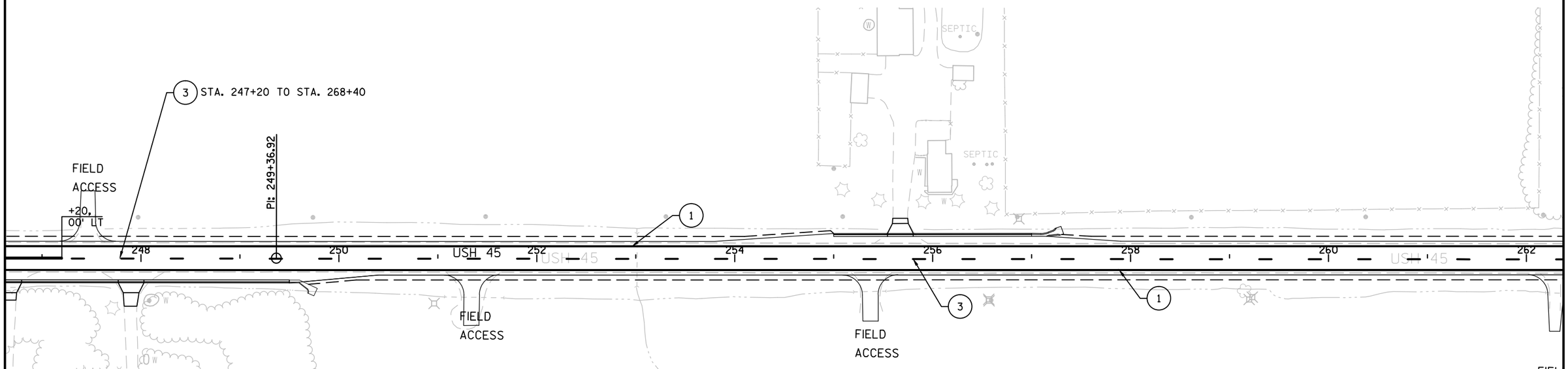
21. CORRUGATED MEDIAN MARKING (YELLOW)

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PAVEMENT MARKING	SHEET 204	E

FILE NAME : N:\PDS\C3D\CAD\24300600\024501_PM.DWG
LAYOUT NAME - 024510_PM
PLOT DATE : 1/26/2017 10:26 AM PLOT BY : HAYNES, RONNIE PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



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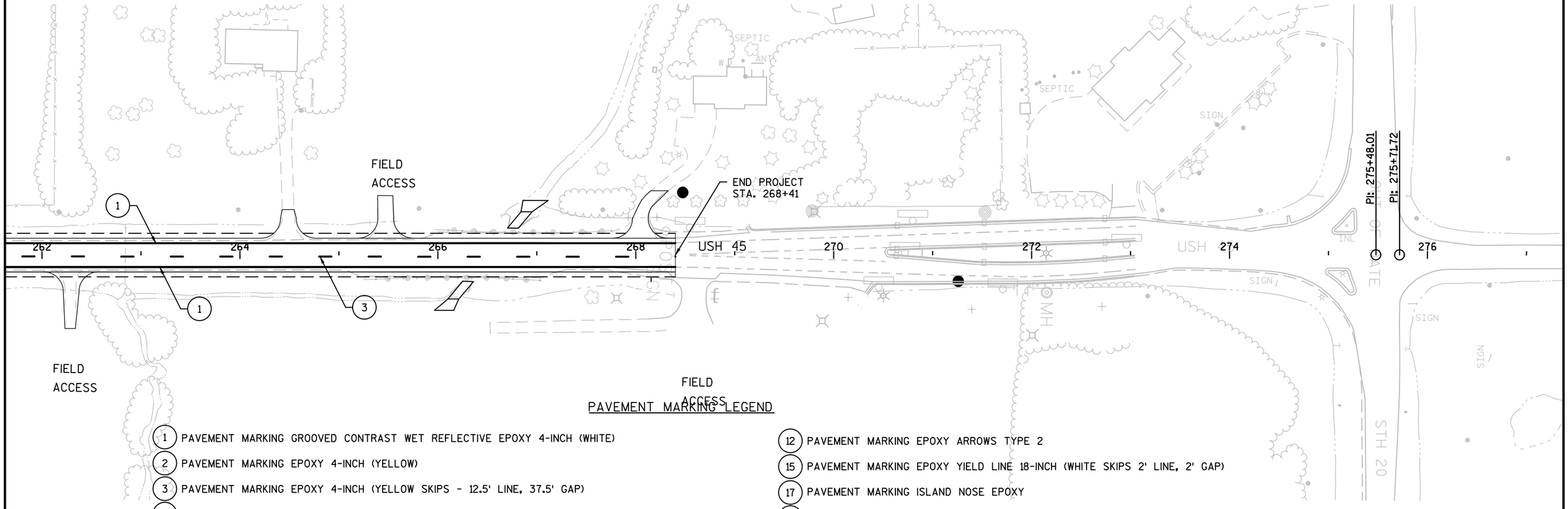
21. CORRUGATED MEDIAN MARKING (YELLOW)

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PAVEMENT MARKING	SHEET 205	E

2



FIELD
ACCESS

FIELD
ACCESS

PAVEMENT MARKING LEGEND

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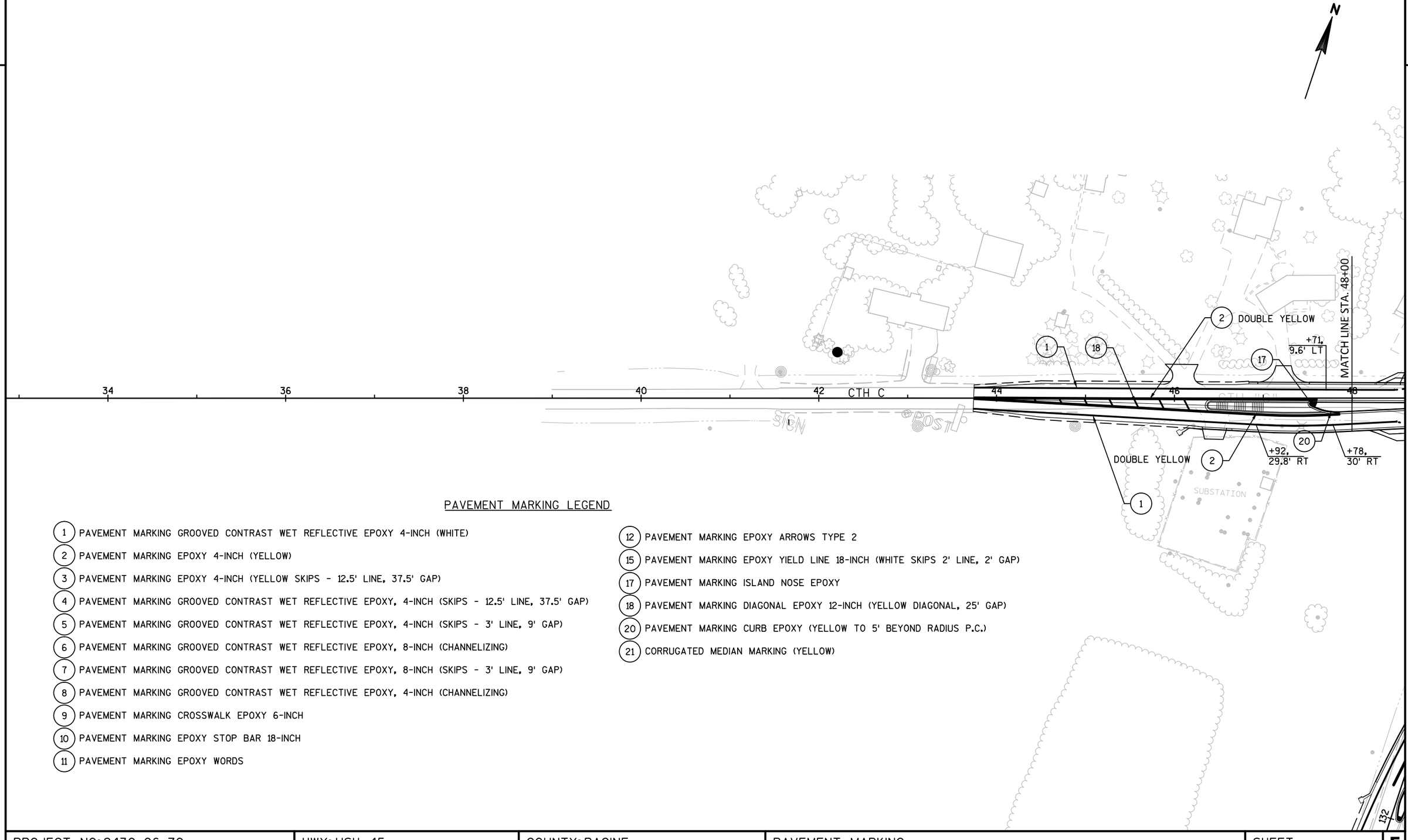
21. CORRUGATED MEDIAN MARKING (YELLOW)

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PAVEMENT MARKING	SHEET 206	E

2



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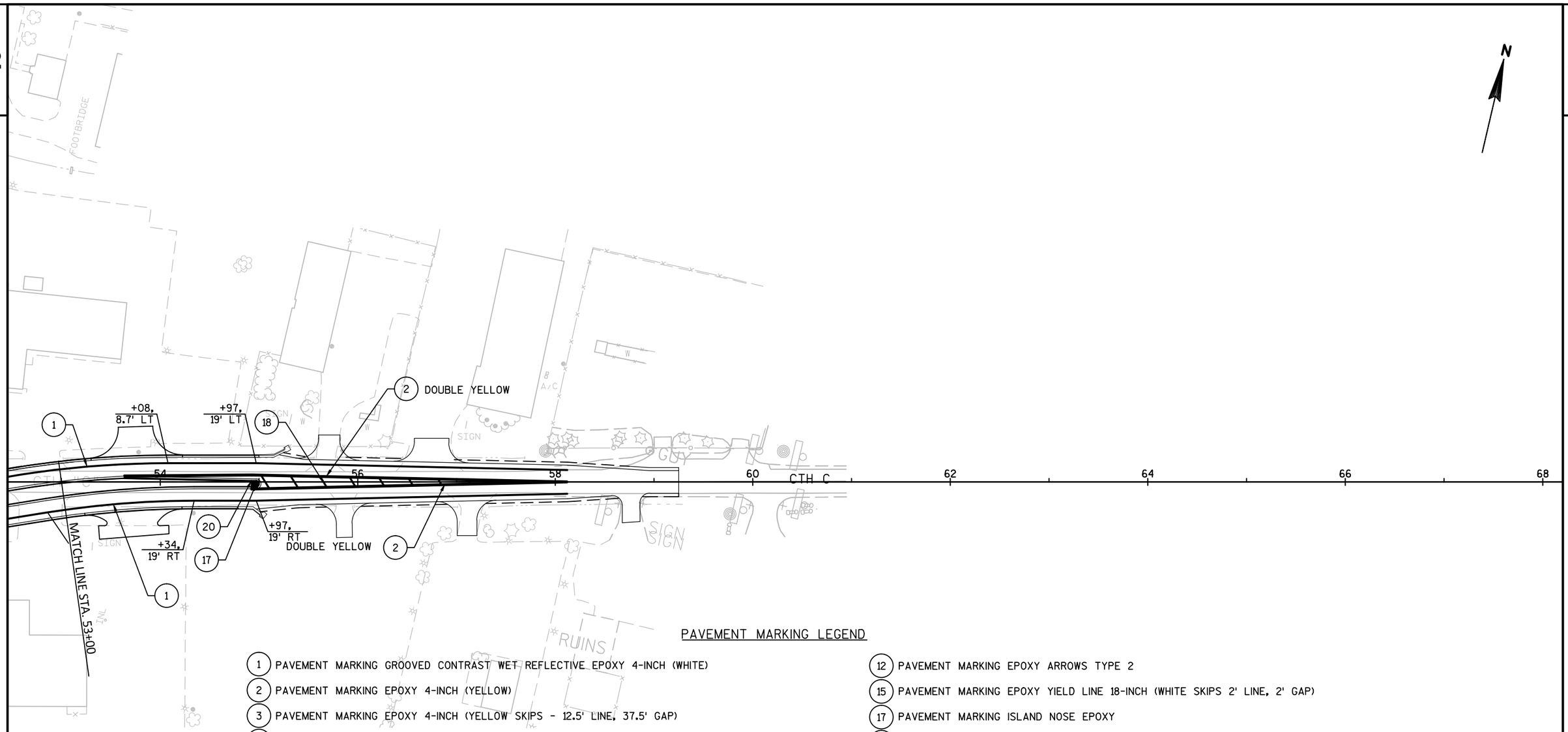
(20) PAVEMENT MARKING CURB EPOXY (YELLOW TO 5' BEYOND RADIUS P.C.)

(21) CORRUGATED MEDIAN MARKING (YELLOW)

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PAVEMENT MARKING	SHEET 207	E

2



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21. CORRUGATED MEDIAN MARKING (YELLOW)

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PAVEMENT MARKING	SHEET 208	E

TRAFFIC CONTROL 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'. (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.

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

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.

ALL TYPE III BARRICADES SHALL BE 8' IN LENGTH AND HAVE 2 TYPE "A" WARNING LIGHTS.

ANY "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- EXISTING GUIDE SIGN TO BE COVERED
- WORK ZONE

(1) SEE S.D.D. BARRICADE AND SIGNS FOR MAINLINE ROAD CLOSURES DETAILS A, C, AND E.

(2) SEE S.D.D. BARRICADES AND SIGNS FOR SIDE ROAD CLOSURES. DETAIL 4 - CONTRACTOR, LOCAL BUSINESS, AND RESIDENT ACCESS TO PROJECT

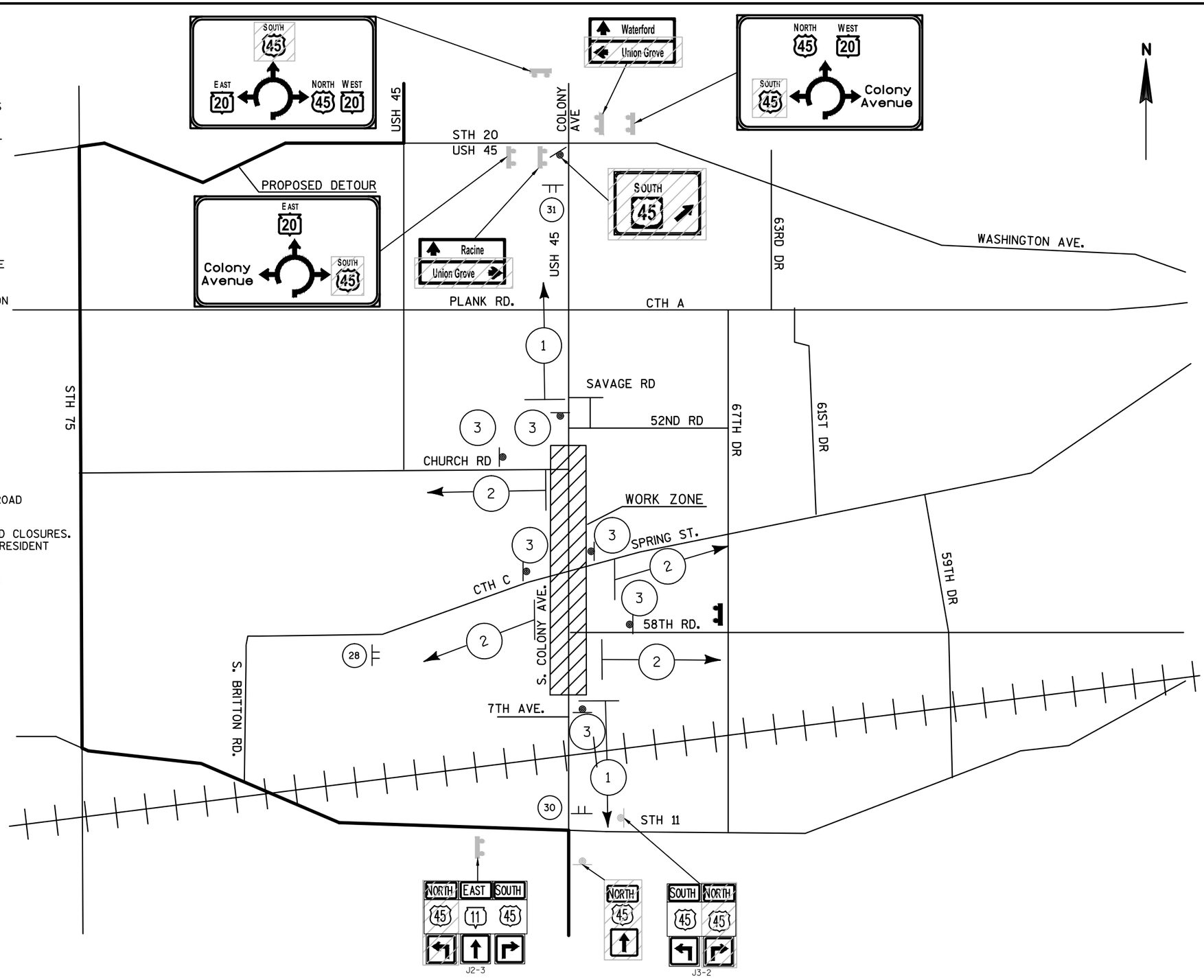
(3) SEE TRAFFIC CONTROL SIGNS FIXED MESSAGE #113

(28) ROAD CLOSED 1.2 MILES AHEAD LOCAL TRAFFIC ONLY — R11-3

(29) ROAD CLOSED 1.0 MILES AHEAD LOCAL TRAFFIC ONLY — R11-3

(30) ROAD CLOSED 0.9 MILES AHEAD LOCAL TRAFFIC ONLY — R11-3

(31) ROAD CLOSED 1.9 MILES AHEAD LOCAL TRAFFIC ONLY — R11-3



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN: TRAFFIC CONTROL: STAGE 1	SHEET 209	E

TRAFFIC CONTROL 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'. (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.

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

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.

ALL TYPE III BARRICADES SHALL BE 8' IN LENGTH AND HAVE 2 TYPE "A" WARNING LIGHTS.

ANY "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- EXISTING GUIDE SIGN TO BE COVERED
- WORK ZONE

(1) SEE S.D.D. BARRICADE AND SIGNS FOR MAINLINE ROAD CLOSURES DETAILS A, C, AND E.

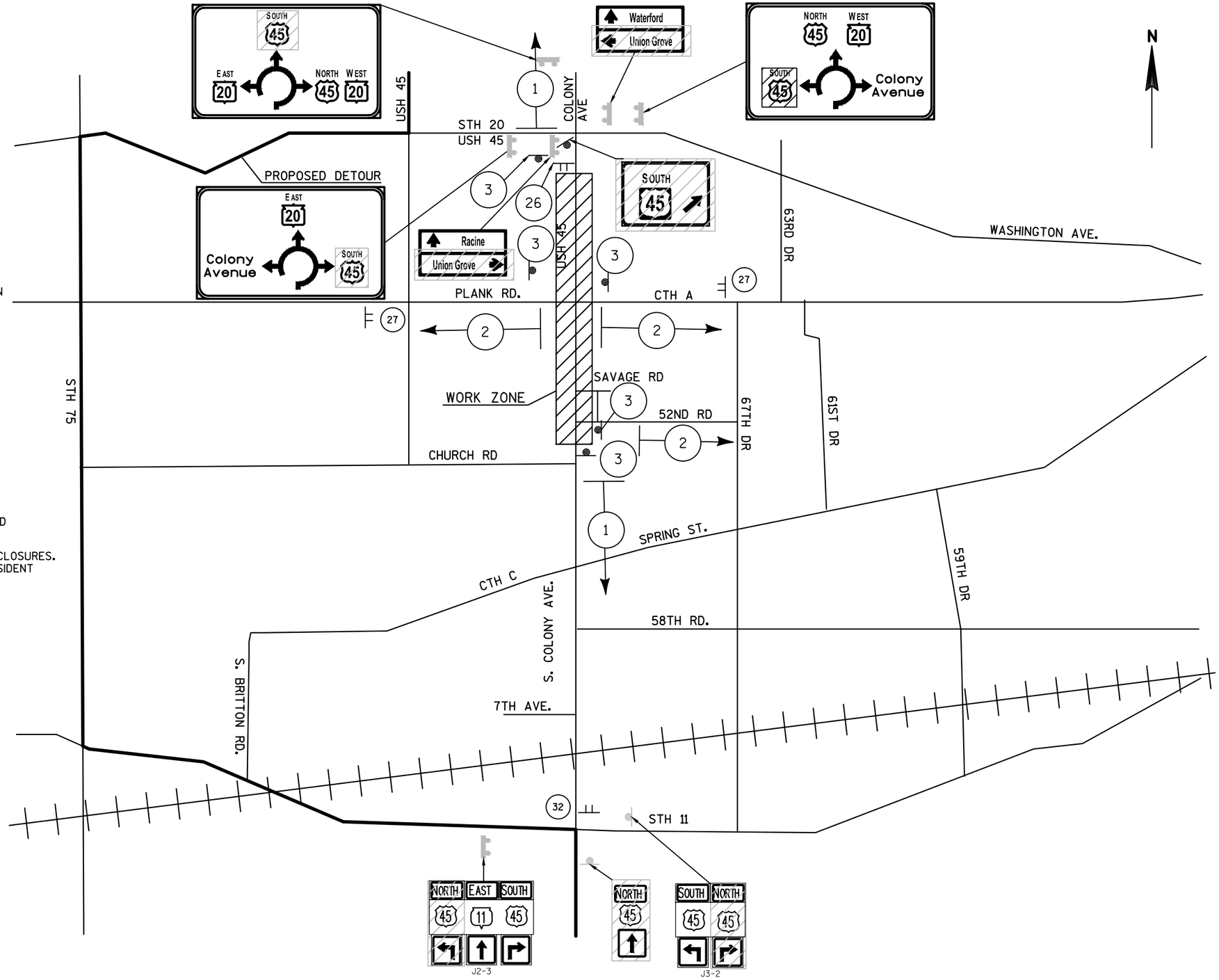
(2) SEE S.D.D. BARRICADES AND SIGNS FOR SIDE ROAD CLOSURES. DETAIL 4 - CONTRACTOR, LOCAL BUSINESS, AND RESIDENT ACCESS TO PROJECT

(3) SEE TRAFFIC CONTROL SIGNS FIXED MESSAGE #113

(26) ROAD CLOSED 0.1 MILES AHEAD LOCAL TRAFFIC ONLY — R11-3

(27) ROAD CLOSED 1.0 MILES AHEAD LOCAL TRAFFIC ONLY — R11-3

(32) ROAD CLOSED 2.3MILES AHEAD LOCAL TRAFFIC ONLY — R11-3



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN: TRAFFIC CONTROL: STAGE 2	SHEET 210	E

FIXED MESSAGE SIGNS (DETAILS SHEETS)

GENERAL 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") (FREEWAY) OR TUBULAR STEEL POSTS OR 4X6 WOOD POSTS (NON–FREEWAY). THE NUMBER OF POST REQUIRED FOR EACH LAYOUT IS SHOWN.

3. SIGNS ON THIS SHEET TO BE PAID UNDER THE ITEM "FIXED MESSAGE SIGNS."

4. SIGNS SHALL BE BLACK NON–REFLECTIVE MESSAGE ON ORANGE FLUORESCENT REFLECTIVE BACKGROUND PER SPEC 643 & 637.
5. ALL SIGNS SHALL HAVE CAPITAL LETTERS AND NUMERALS:
   12" CAPS SHALL BE SERIES "D"
   6" CAPS SHALL BE SERIES "C" – UNLESS OTHERWISE SHOWN

6. ALL SIGNS SHALL HAVE BORDER & RADIUS OF BORDERS AS FOLLOWS:

SIGN AREA	WIDTH OF BORDER
GREATER THAN 150 SQ FT	3"
60–150 SQ FT	2"
LESS THAN 60 SQ FT	1"

RADIUS SMALLEST OUTSIDE DIMENSION	CORNER RADIUS
≥ 8 FT	12"
≥ 6 FT	9"
> 4 FT	6"
LESS THAN 4 FT	3"

7. BEGIN XXX XX SIGNS SHALL BE SEPARATE PANELS, BUT SHALL BE CONSIDERED AS PART OF THE SIGN AND SHOULD BE REMOVED OR COVERED AFTER THEIR EFFECTIVE DATE. THE MONTH AND DAY SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.

8. SIGN BASE MATERIAL SHALL BE ACCORDING TO SECTION 643 & 637.

(X) = SIGN NUMBER

FOR PLAN SHEETS

LEGEND: FIXED MESSAGE SIGNS

- EXISTING GUIDE SIGN TO BE COVERED
- FIXED MESSAGE SIGN(S) ON WOOD POST SUPPORTS OR TUBULAR STEEL POSTS
- (XX) FIXED MESSAGE SIGN NUMBER
- (A1) CONTRACTOR SHALL COVER AS DIRECTED BY THE ENGINEER ALL ROUTE MARKINGS PERTAINING TO THE PROJECT. INCIDENTAL TO WORK ZONE TRAFFIC CONTROL SIGNING.
- [CMS] CHANGEABLE MESSAGE SIGN

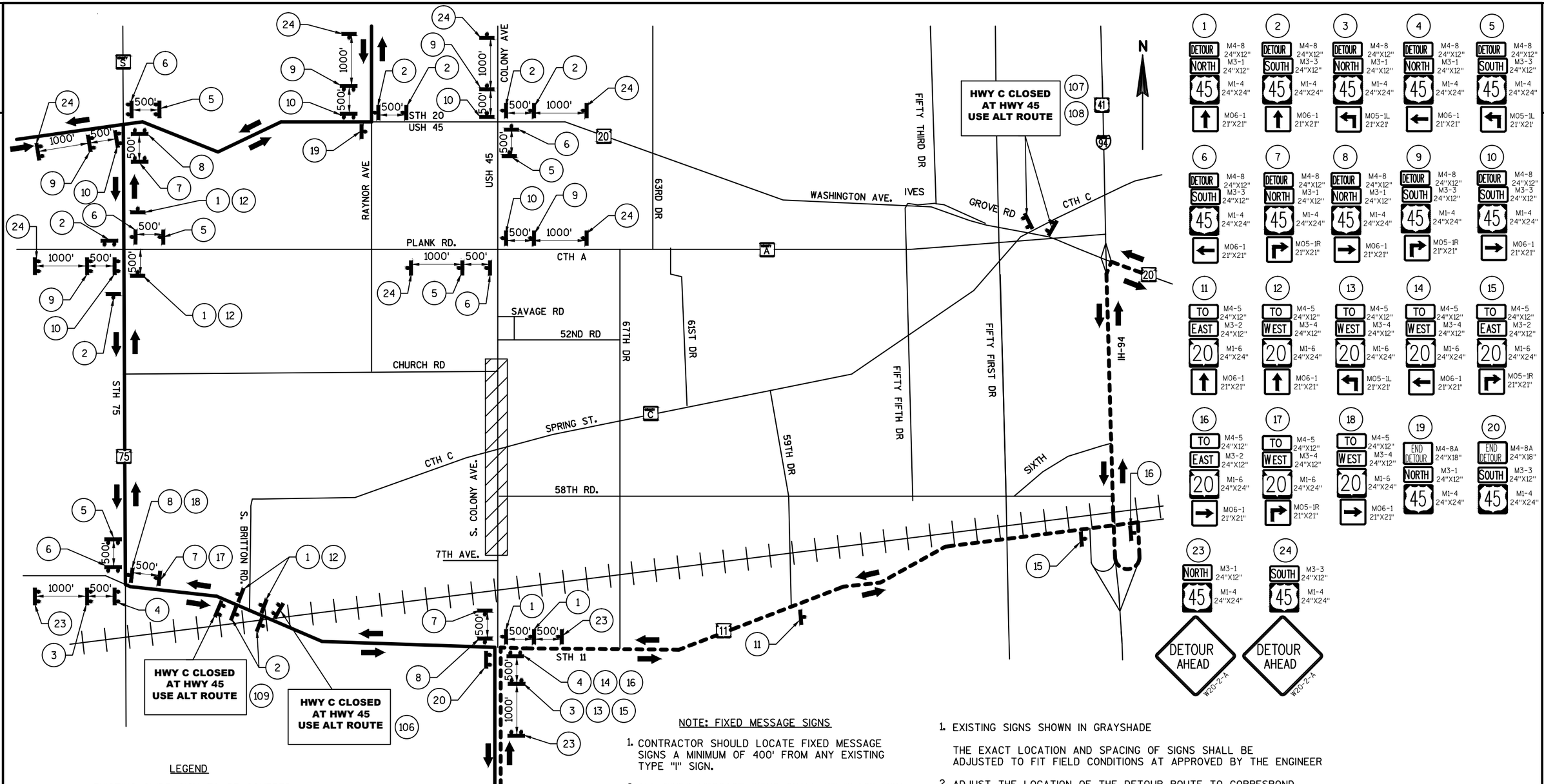
NOTES: FIXED MESSAGE SIGNS

1. CONTRACTOR SHOULD LOCATE FIXED MESSAGE SIGNS A MINIMUM OF 400' FROM ANY EXISTING TYPE "I" SIGN.

2. ALL FIXED MESSAGE SIGNS SHALL BE BLACK NON–REFLECTIVE MESSAGE ON ORANGE FLORESCENT REFLECTIVE BACKGROUND PER SPEC 643 & 637

3. SEE FIXED MESSAGE SIGNS AND SPECIAL MESSAGE SIGNS LAYOUT SHEETS FOR MORE INFORMATION.

4. COVER DETOUR SIGNING WHEN NOT IN USE. INCIDENTAL TO WORK ZONE TRAFFIC CONTROL SIGNING.



LEGEND

- EXISTING GUIDE SIGN TO BE COVERED
- FIXED MESSAGE SIGN ON WOOD POST SUPPORTS
- DETOUR ROUTE USH 45 NORTH & SOUTH BOUND
- ROUTE TO STH 20 EAST BOUND
- (XX) DETOUR ROUTE SIGN NUMBER

*PLACE SIGNS BEYOND INTERSECTION WITH STATE OR COUNTY TRUNK HIGHWAYS OR AT 4 MILE MAXIMUM SPACING (4 BLOCK IF URBAN AREA)

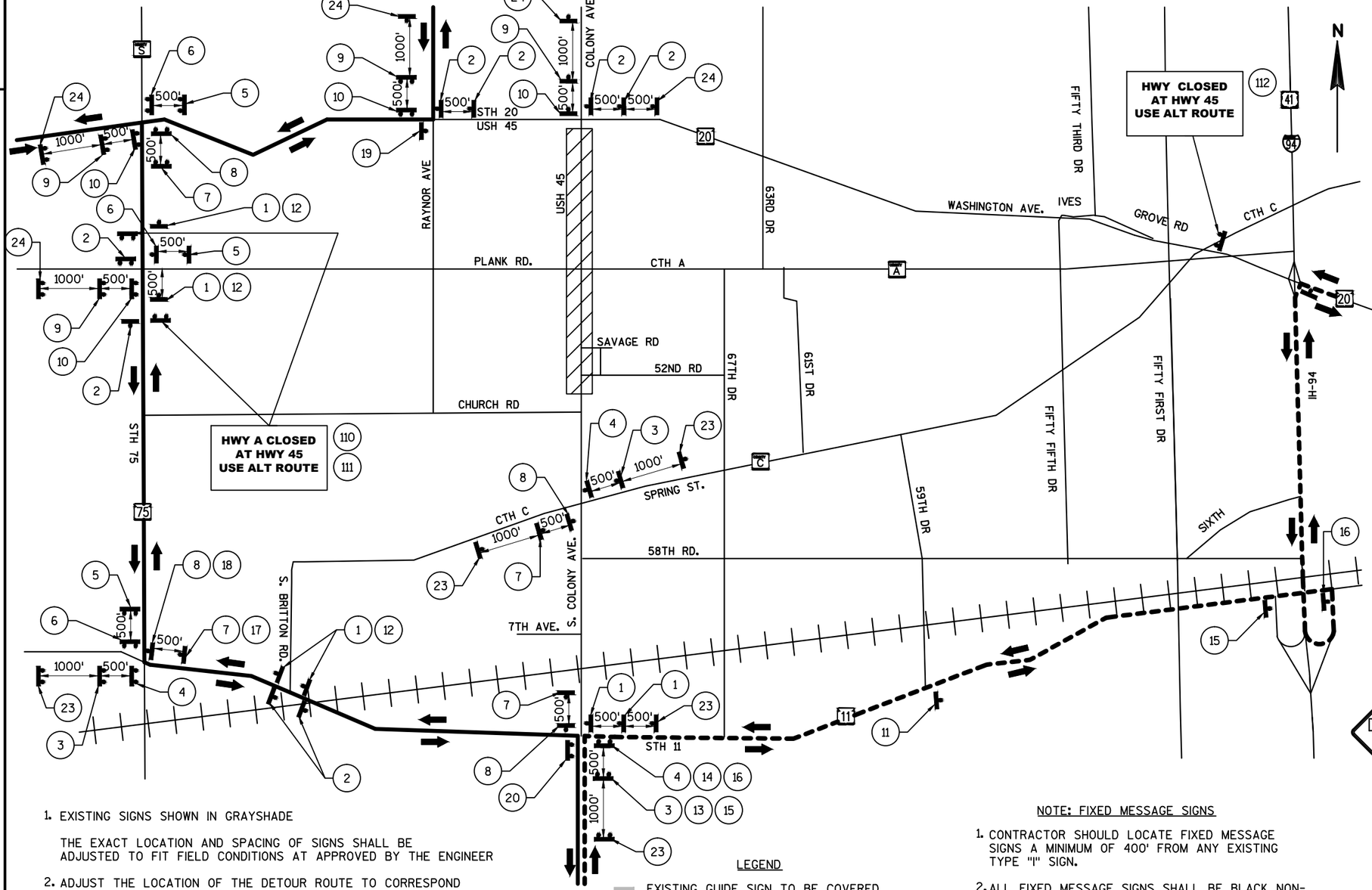
NOTE: FIXED MESSAGE SIGNS

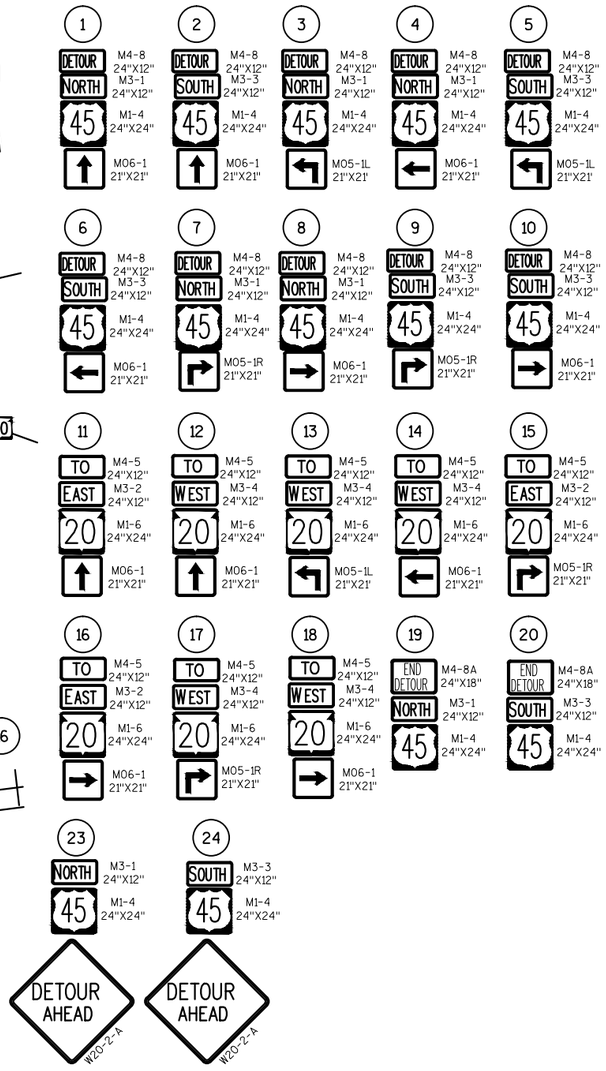
1. CONTRACTOR SHOULD LOCATE FIXED MESSAGE SIGNS A MINIMUM OF 400' FROM ANY EXISTING TYPE "I" SIGN.
2. ALL FIXED MESSAGE SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE REFLECTIVE BACKGROUND.
3. SEE FIXED MESSAGE SIGNS AND SPECIAL MESSAGE SIGNS LAYOUT SHEETS FOR MORE INFORMATION.
4. COVER DETOUR SIGNING WHEN NOT IN USE, INCIDENTAL TO WORK ZONE TRAFFIC CONTROL SIGNING.
5. SIGNS TO BE PLACED 10 DAYS PRIOR TO CONSTRUCTION.

1. EXISTING SIGNS SHOWN IN GRAYSHADE

   THE EXACT LOCATION AND SPACING OF SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AT APPROVED BY THE ENGINEER
2. ADJUST THE LOCATION OF THE DETOUR ROUTE TO CORRESPOND WITH EXISTING ASSEMBLIES
3. THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR ROUTE SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE
4. ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND APPROVED BY THE ENGINEER
5. "MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANCE

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	DETOUR - STAGE 1	SHEET 212 E





1. EXISTING SIGNS SHOWN IN GRAYSHADE

   THE EXACT LOCATION AND SPACING OF SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AT APPROVED BY THE ENGINEER

2. ADJUST THE LOCATION OF THE DETOUR ROUTE TO CORRESPOND WITH EXISTING ASSEMBLIES

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5. "MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANCE

LEGEND

- EXISTING GUIDE SIGN TO BE COVERED
- FIXED MESSAGE SIGN ON WOOD POST SUPPORTS
- DETOUR ROUTE USH 45 NORTH & SOUTH BOUND
- ROUTE TO STH 20 EAST BOUND
- (XX) DETOUR ROUTE SIGN NUMBER

* PLACE SIGNS BEYOND INTERSECTION WITH STATE OR COUNTY TRUNK HIGHWAYS OR AT 4 MILE MAXIMUM SPACING (4 BLOCK IF URBAN AREA)

NOTE: FIXED MESSAGE SIGNS

1. CONTRACTOR SHOULD LOCATE FIXED MESSAGE SIGNS A MINIMUM OF 400' FROM ANY EXISTING TYPE "I" SIGN.

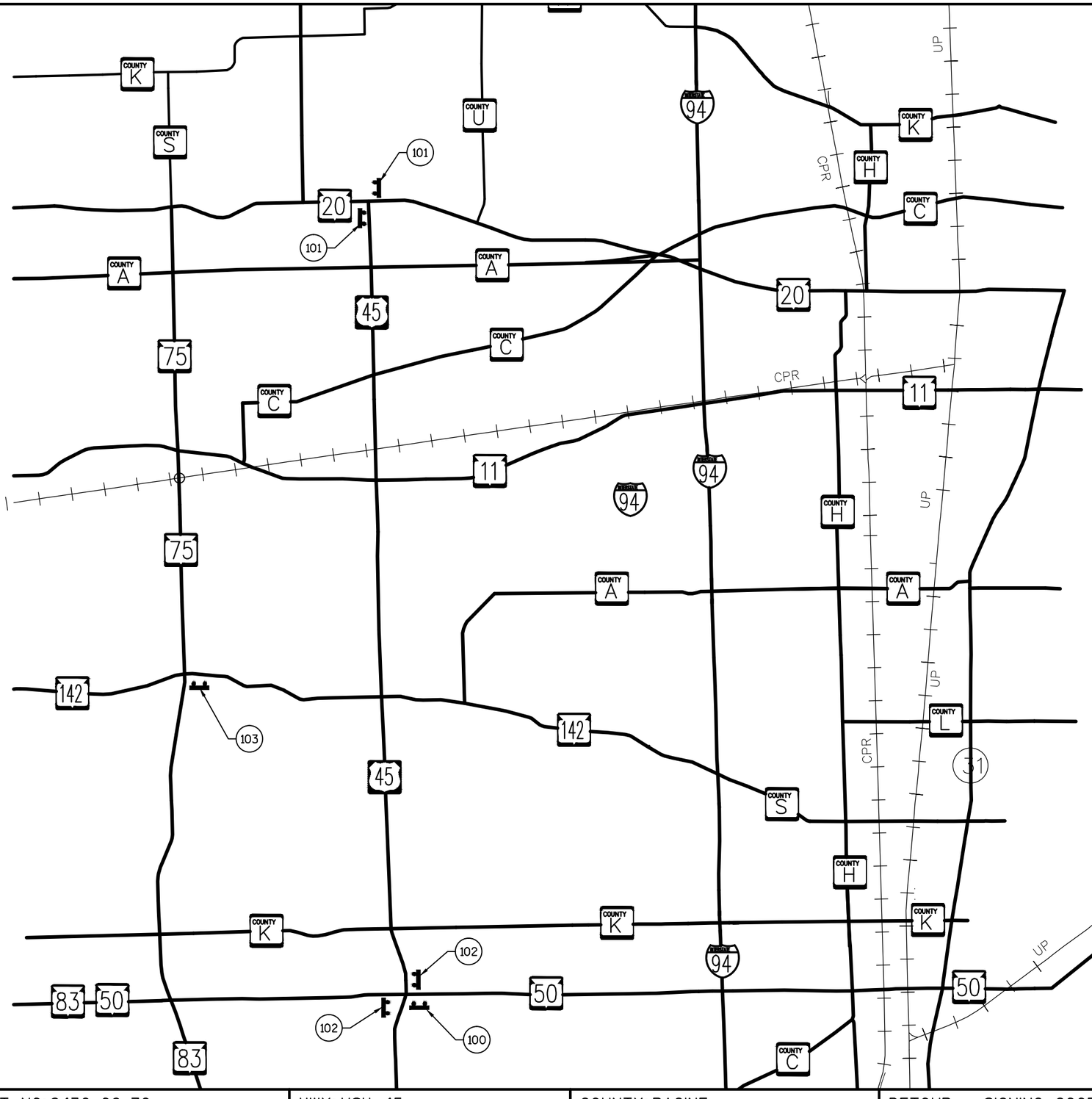
2. ALL FIXED MESSAGE SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE REFLECTIVE BACKGROUND.

3. SEE FIXED MESSAGE SIGNS AND SPECIAL MESSAGE SIGNS LAYOUT SHEETS FOR MORE INFORMATION.

4. COVER DETOUR SIGNING WHEN NOT IN USE, INCIDENTAL TO WORK ZONE TRAFFIC CONTROL SIGNING.

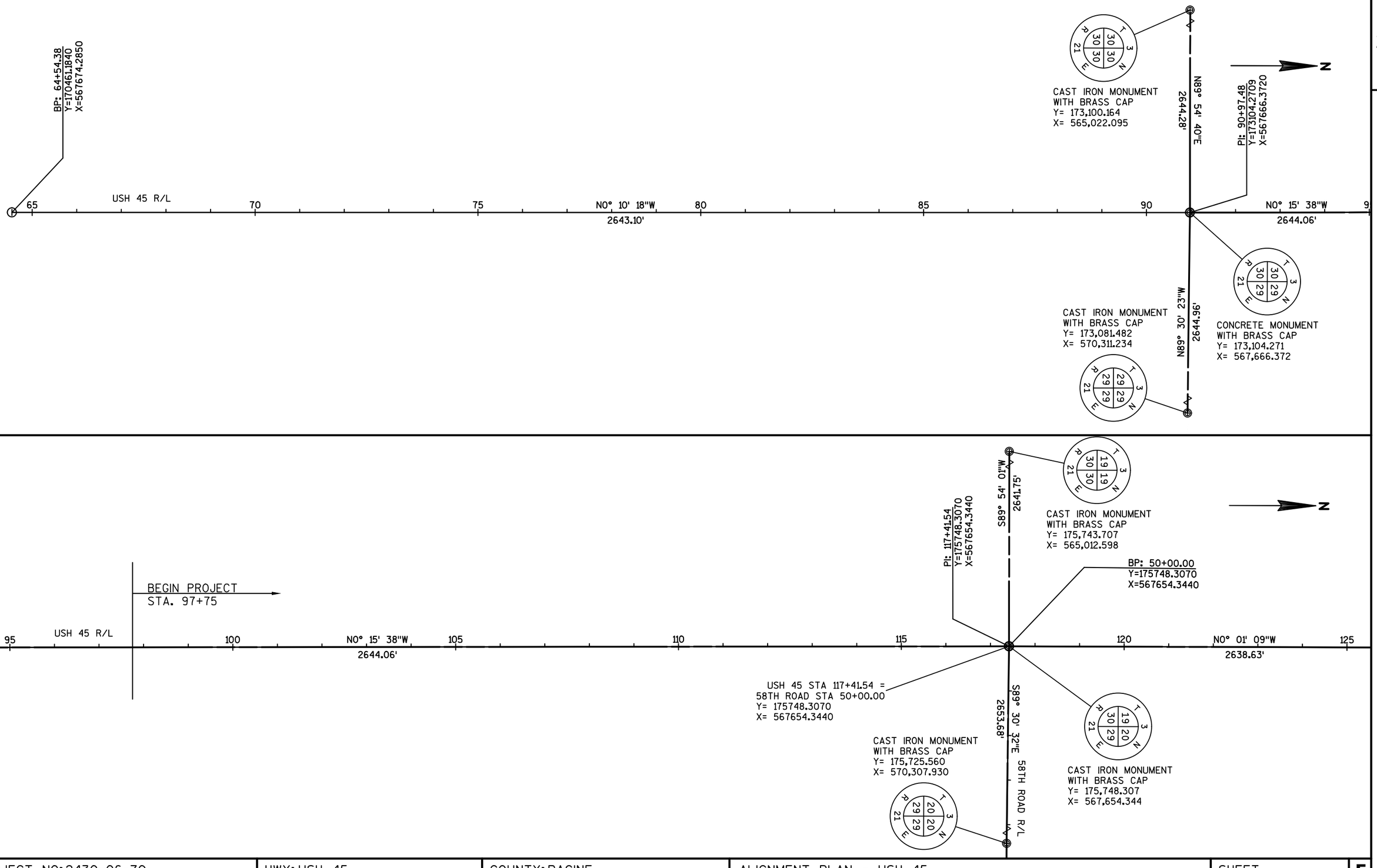
5. SIGNS TO BE PLACED 10 DAYS PRIOR TO CONSTRUCTION.

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	DETOUR - STAGE 2	SHEET 213	E



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	DETOUR - SIGNING COORDINATION WITH OTHER PROJECTS & OSOW	SHEET 214	E

2



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	ALIGNMENT PLAN - USH 45	SHEET 215	E

2

SEE ALIGNMENT PLAN - ROUNDABOUT DETAILS

CTH C WEST R/L

N71° 41' 22"E
1739.09'

USH 45 STA 136+98.40 =
CTH C WEST STA 50+00.00
Y= 177705.1640
X= 567653.6931

EP: 50+00.00
Y=177705.1640
X=567653.6931

USH 45 R/L

130 N0° 01' 09"W 135 140

2638.63'

BP: 50+00.00
Y=177700.8640
X=567653.6940

USH 45 STA 136+94.10 =
CTH C EAST STA 50+00.00
Y= 177700.8640
X= 567653.6940

N76° 56' 26"E
2354.36'

CTH C EAST R/L

PI: 143+80.17
Y=178386.9340
X=567653.4660

S89° 53' 09"W
2644.30'

COMPUTED HOLDING
SEWRPC DISTANCE FROM
WC - BEARING ROTATED
BASED ON EAST LINE OF
SE ¼ SEC 19-3-21
Y= 178,381.667
X= 565,010.675

WITNESS CORNER
CONCRETE MONUMENT
WITH BRASS CAP
Y= 178,381.663
X= 565,009.175

N

145 N0° 07' 03"E 150 155

2644.05'

CAST IRON MONUMENT
WITH BRASS CAP
Y= 178,370.715
X= 570,308.055

S89° 39' 00"E
2654.64'

CAST IRON HIGHWAY
PLATE
Y= 178,386.934
X= 567,653.466

CHURCH ROAD R/L

PI: 170+24.22
Y=181030.9750
X=567658.8850

N89° 48' 20"E
2637.74'

CONCRETE MONUMENT
WITH BRASS CAP
Y= 181,022.023
X= 565,021.156

N

EP: 50+00.00
Y=181030.9750
X=567658.8850

USH 45 R/L

160 N0° 07' 03"E 165 170 175 N0° 05' 23"E 180 185

2644.05' 2642.69'

USH 45 STA 170+24.22 =
CHURCH ROAD STA 50+00.00
Y= 181030.9750
X= 567658.8850

N89° 42' 40"W
2649.56'

CONCRETE MONUMENT
WITH BRASS CAP
Y= 181,017.465
X= 570,308.411

CAST IRON MONUMENT
WITH BRASS CAP
Y= 181,030.975
X= 567,658.885

USH 45 STA 183+44.49 =
52ND ROAD STA 50+00.00
Y= 182351.2497
X= 567660.9543

S89° 46' 30"E
551.03'

BP: 50+00.00
Y=182351.1664
X=567660.9540

52ND ROAD R/L

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	ALIGNMENT PLAN - USH 45	SHEET 216	E

PI: 196+66.90
Y=183673.6606
X=567663.0270

N89° 46' 19"E
2634.57'

WITNESS MONUMENT
CAST IRON MONUMENT
WITH BRASS CAP
Y= 183,671.171
X= 565,028.503

COMPUTED BY EXTENDING
LOCATED SEC. LINE
SOUTH SEWRPC RECORD
DISTANCE
Y= 183,663.171
X= 565,028.479

BP: 50+00.00
Y=183321.4750
X=567662.4750

190 N0° 05' 23"E 195 200 205 N0° 05' 09"E 210 215 USH 45 R/L 22

2642.69' 2633.19'

USH 45 STA 193+14.72 =
SAVAGE ROAD STA 50+00.00
Y= 183321.4751
X= 567662.4750

S89° 04' 43"E
577.42'

SAVAGE ROAD R/L

S89° 41' 02"E
2647.52'

CONCRETE MONUMENT
WITH BRASS CAP
Y= 183,673.661
X= 567,633.027

CONCRETE MONUMENT
WITH BRASS CAP
Y= 183,659.059
X= 570,310.507

N

PI: 223+00.09
Y=186306.8471
X=567666.9690

S89° 48' 01"E
2630.46'

CONCRETE MONUMENT
WITH BRASS CAP
Y= 186,306.847
X= 567,666.969

CAST IRON MONUMENT
WITH BRASS CAP
Y= 186,299.981
X= 565,036.486

0 N0° 05' 09"E 225 USH 45 R/L 230 235 N0° 13' 02"W 240 245 250

2633.19' 2636.83'

USH 45
STA 223+00.09 =
CTH A
STA 50+00.00
Y= 186306.8471
X= 567666.9690

2641.80'

S89° 49' 58"E

PI: 50+00.00
Y=186306.8471
X=567666.9690

CTH A R/L

CONCRETE MONUMENT
WITH BRASS CAP
Y= 186,299.138
X= 570,308.753

N

PI: 249+36.92
Y=188943.6547
X=567656.9750

CAST IRON MONUMENT
WITH BRASS CAP
Y= 188,926.255
X= 565,042.063

S89° 37' 08"W
2614.97'

N0° 17' 17"W
2611.09'

CONCRETE MONUMENT
WITH BRASS CAP
Y= 188,943.654
X= 567,656.975

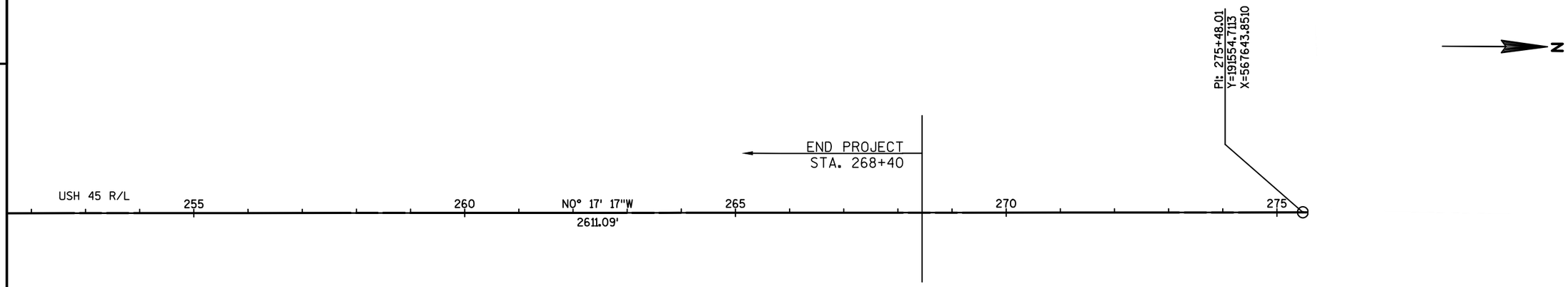
COMPUTED BY EXTENDING
FIELD LOCATED SEC. LINE
SOUTH SEWRPC RECORD
DISTANCE
Y= 188,949.511
X= 570,306.835

S89° 52' 24"W
2649.87'

WITNESS CORNER
CAST IRON
MONUMENT WITH
BRASS CAP
Y= 188,959.511
X= 570,306.777

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	ALIGNMENT PLAN - USH 45	SHEET 217	E

2



PROJECT NO:2430-06-70	HWY:USH 45	COUNTY:RACINE	ALIGNMENT PLAN - USH 45	SHEET 218	E

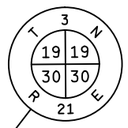
2

2

CP3
CP BERNTSEN FENO
STA. 125+83.38, 37.2' RT
Y=176590.12
X=567691.26
ELEV.=790.01

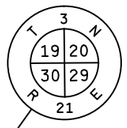
N

CAST IRON MONUMENT
WITH BRASS CAP
Y= 175,743.707
X= 565,012.598



BP: 50+00.00
Y=175748.3070
X=567654.3440

CAST IRON MONUMENT
WITH BRASS CAP
Y= 175,748.307
X= 567,654.344



EP: 76+53.68
Y=175725.5600
X=570307.9300

125
120
NO° 01' 09"W
2638.63'

S89° 54' 01"W
2641.75'

55
60
S89° 30' 32"E
2653.68'
65
70
58TH ROAD R/L
75

CP2
CP BERNTSEN FENO
STA. 56+47.41, 23.78' RT
Y=175718.98
X=568301.52
ELEV.=786.54

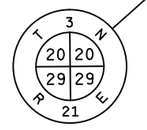
PI: 117+41.54
Y=175748.3070
X=567654.3440

115
NO° 15' 38"W
2644.06'

USH 45 STA 117+41.54 =
58TH ROAD STA 50+00.00
Y= 175748.3070
X= 567654.3440

USH 45 R/L

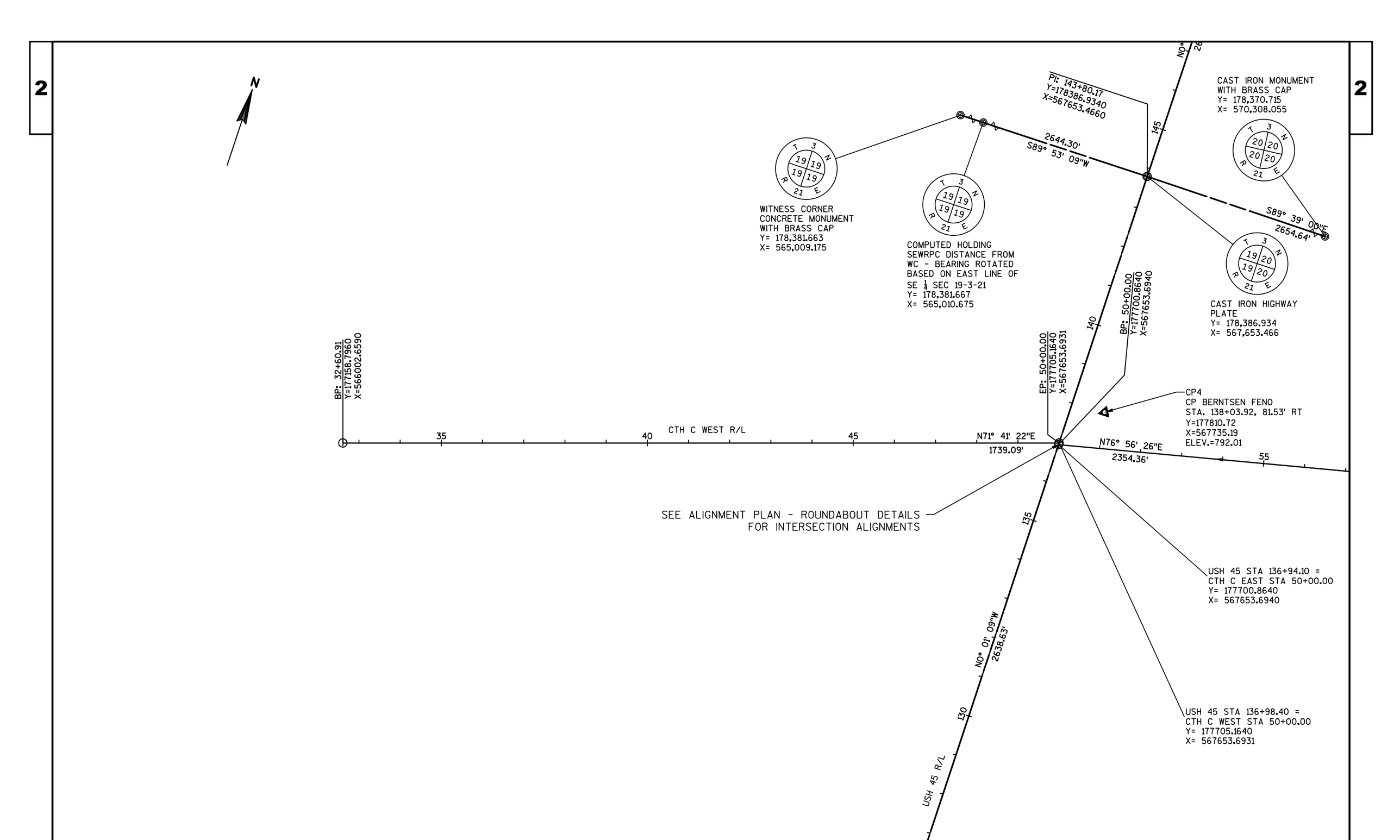
110



CAST IRON MONUMENT
WITH BRASS CAP
Y= 175,725.560
X= 570,307.930

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	ALIGNMENT PLAN - 58TH ROAD	SHEET 219	E

2



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	ALIGNMENT PLAN - CTH C WEST	SHEET 220	E

2

PI: 143+80.17
Y=178386.9340
X=567653.4660

2644.30'
S89° 53' 09"W

S89° 39' 00"E
2654.64'

COMPUTED HOLDING
SEWRPC DISTANCE FROM
WC - BEARING ROTATED
BASED ON EAST LINE OF
SE ¼ SEC 19-3-21
Y= 178,381.667
X= 565,010.675

CAST IRON HIGHWAY
PLATE
Y= 178,386.934
X= 567,653.466

WITNESS CORNER
CONCRETE MONUMENT
WITH BRASS CAP
Y= 178,381.663
X= 565,009.175

EP: 50+00.00
Y=177705.1640
X=567653.6931

BP: 50+00.00
Y=177700.8640
X=567653.6940

CP4
CP BERNTSEN FENO
STA. 138+03.92, 81.53' RT
Y=177810.72
X=567735.19
ELEV.=792.01

EP: 173+54.36
Y=178232.8620
X=569947.1610

N71° 41' 22"E
1739.09'

N76° 56' 26"E
2354.36'

CTH C EAST R/L

SEE ALIGNMENT PLAN - ROUNDABOUT DETAILS
FOR INTERSECTION ALIGNMENTS

USH 45 STA 136+94.10 =
CTH C EAST STA 50+00.00
Y= 177700.8640
X= 567653.6940

USH 45 STA 136+98.40 =
CTH C WEST STA 50+00.00
Y= 177705.1640
X= 567653.6931

N0° 01' 09"W
2638.63'

USH 45 R/L

CAST IRON MONUMENT
WITH BRASS CAP
Y= 178,370.715
X= 570,308.055

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	ALIGNMENT PLAN - CTH C EAST	SHEET 221	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\02 - TYPICAL SECTIONS AND DETAILS\027202_AD SIDEROADS.DWG
LAYOUT NAME - 027212_AD

PLOT DATE : ----

PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

2

N

CONCRETE MONUMENT
WITH BRASS CAP
Y= 181,022.023
X= 565,021.156

T 3 N
R 21 E
18 | 18
19 | 19

BP: 23+62.26
Y=181022.0229
X=565021.1560

25 30 35 N89° 48' 20"E 40 45 50

2637.74'

CHURCH ROAD R/L

CP7
CP BERNTSEN FENO
STA. 170+41.2, 380.16' LT
Y=181048.56
X=567278.75
ELEV.=783.71

N89° 42' 28"W 2649.56'

NO° 05' 23"E 2642.69'

EP: 50+00.00
Y=181030.9750
X=567658.8850

CAST IRON MONUMENT
WITH BRASS CAP
Y= 181,030.975
X= 567,658.885

T 3 N
R 21 E
18 | 17
19 | 20

USH 45 STA 170+24.22 =
CHURCH ROAD STA 50+00.00
Y= 181030.9750
X= 567658.8850

PI: 170+24.22
Y=181030.9750
X=567658.8850

T 3 N
R 21 E
17 | 17
20 | 20

CONCRETE MONUMENT
WITH BRASS CAP
Y= 181,017.465
X= 570,308.411

CP6
CP BERNTSEN FENO
STA. 163+90.8, 58.58' RT
Y=180397.44
X=567716.17
ELEV.=778.42

NO° 07' 03"E 2644.05'

USH 45 R/L

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	ALIGNMENT PLAN - CHURCH ROAD	SHEET 222 E

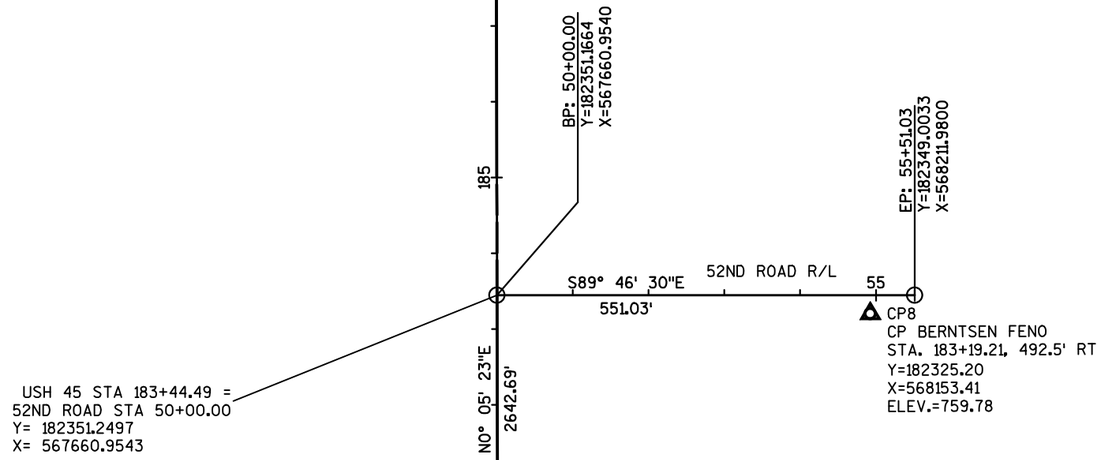
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\02 - TYPICAL SECTIONS AND DETAILS\027202_AD SIDEROADS.DWG
LAYOUT NAME - 027213_AD

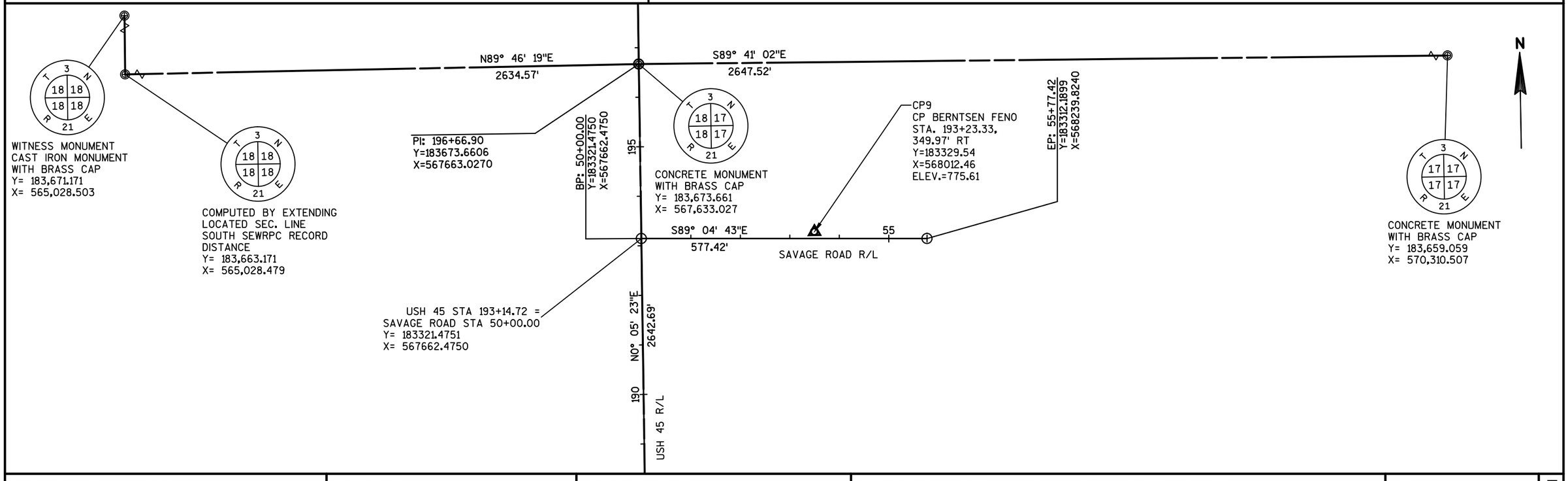
PLOT DATE : ----

PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:200 FT

2





PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	ALIGNMENT PLAN - 52ND ROAD & SAVAGE ROAD	SHEET 223	E

2

2

N

BP: 23+69.54
Y=186316.0111
X=565036.5210

S89° 48' 01"E
2630.46'

PI: 223+00.09
Y=186306.8471
X=567666.9690

PI: 50+00.00
Y=186306.8471
X=567666.9690

N0° 13' 02"W
2636.83'

CTH A R/L

25 30 35 40 45 50

S89° 49' 58"E
2641.80'

S89° 51' 02"W
2630.49'

CP12
CP BERNTSEN FENO
STA. 43+70.67, 42.81' RT
Y=186266.23
X=567037.49
ELEV.=788.04

N0° 05' 09"E
2633.19'

USH 45 R/L

230 225 220 215

T 3 N
R 21 E
7 7
18 18

CAST IRON MONUMENT
WITH BRASS CAP
Y= 186,299.981
X= 565,036.486

USH 45
STA 223+00.09 =
CTH A
STA 50+00.00
Y= 186306.8471
X= 567666.9690

T 3 N
R 21 E
7 8
18 17

CONCRETE MONUMENT
WITH BRASS CAP
Y= 186,306.847
X= 567,666.969

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	ALIGNMENT PLAN - CTH A	SHEET 224	E

2

2

N

NO° 13' 02"W
2636.83'

NO° 05' 09"E
2633.19'

USH 45 R/L

CTH A R/L

S89° 49' 58"E
2641.80'

230
225
220
215

50
55
60
65
70
75

PI: 223+00.09
Y=186306.8471
X=567666.9690

PI: 50+00.00
Y=186306.8471
X=567666.9690

CP11
CP BERNTSEN FENO
STA. 56+62, 45.6' lt
Y=186350.51
X=568329.10
ELEV.=784.67

EP: 76+41.80
Y=186299.1381
X=570308.7529

USH 45
STA 223+00.09 =
CTH A
STA 50+00.00
Y= 186306.8471
X= 567666.9690

T 3 N
R 7 8 E
18 17
21

CONCRETE MONUMENT
WITH BRASS CAP
Y= 186,306.847
X= 567,666.969

T 3 N
R 8 8 E
17 17
21

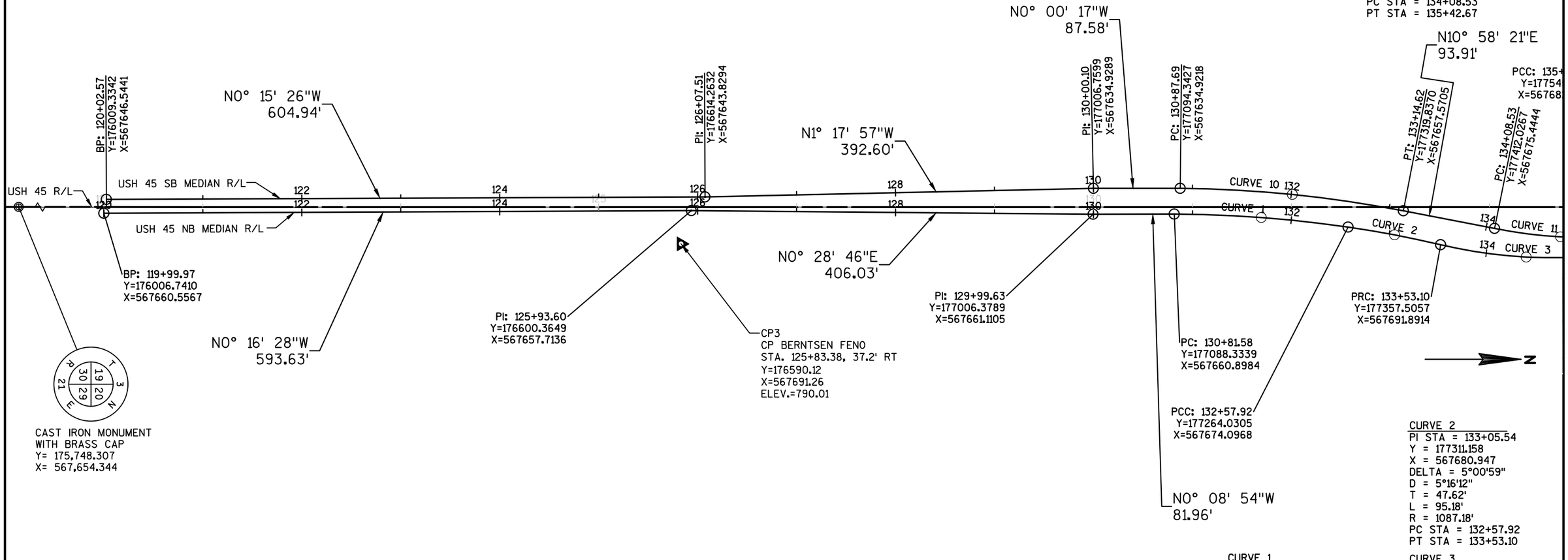
CONCRETE MONUMENT
WITH BRASS CAP
Y= 186,299.138
X= 570,308.753

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	ALIGNMENT PLAN - CTH A	SHEET 225	E

2

CURVE 10
PI STA = 132+01.46
Y = 177208.115
X = 567636.038
DELTA = 10°20'49"
D = 4°33'34"
T = 113.78'
L = 226.94'
R = 1256.64'
PC STA = 130+87.69
PT STA = 133+14.62

CURVE 11
PI STA = 134+76.08
Y = 177478.259
X = 567688.703
DELTA = 16°38'18"
D = 12°24'13"
T = 67.55'
L = 134.14'
R = 461.93'
PC STA = 134+08.53
PT STA = 135+42.67



CAST IRON MONUMENT
WITH BRASS CAP
Y= 175,748.307
X= 567,654.344

CURVE 2
PI STA = 133+05.54
Y = 177311.158
X = 567680.947
DELTA = 5°00'59"
D = 5°16'12"
T = 47.62'
L = 95.18'
R = 1087.18'
PC STA = 132+57.92
PT STA = 133+53.10

CURVE 1
PI STA = 131+69.89
Y = 177176.641
X = 567661.395
DELTA = 7°56'54"
D = 4°30'27"
T = 88.31'
L = 176.33'
R = 1271.12'
PC STA = 130+81.58
PT STA = 132+57.92

CURVE 3
PI STA = 134+41.64
Y = 177443.672
X = 567712.239
DELTA = 20°33'51"
D = 11°44'23"
T = 88.54'
L = 175.17'
R = 488.06'
PC STA = 133+53.10
PT STA = 135+28.27

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	ALIGNMENT PLAN - ROUNDABOUT DETAILS	SHEET 226	E

2

CURVE 10
PI STA = 132+01.46
Y = 177208.115
X = 567636.038
DELTA = 10°20'49"
D = 4°33'34"
T = 113.78'
L = 226.94'
R = 1256.64'
PC STA = 130+87.69
PT STA = 133+14.62

CURVE 11
PI STA = 134+76.08
Y = 177478.259
X = 567688.703
DELTA = 16°38'18"
D = 12°24'13"
T = 67.55'
L = 134.14'
R = 461.93'
PC STA = 134+08.53
PT STA = 135+42.67

CURVE 12
PI STA = 135+67.92
Y = 177570.652
X = 567680.061
DELTA = 4°49'10"
D = 9°32'57"
T = 25.25'
L = 50.47'
R = 600.00'
PC STA = 135+42.67
PT STA = 135+93.14

CURVE 13
PI STA = 136+14.50
Y = 177616.522
X = 567671.782
DELTA = 56°12'31"
D = 143°14'22"
T = 21.36'
L = 39.24'
R = 40.00'
PC STA = 135+93.14
PT STA = 136+32.38

CURVE 14
PI STA = 136+55.92
Y = 177634.468
X = 567630.628
DELTA = 57°23'09"
D = 133°14'46"
T = 23.53'
L = 43.07'
R = 43.00'
PC STA = 136+32.38
PT STA = 136+75.45

CURVE 15
PI STA = 137+03.60
Y = 177685.510
X = 567622.495
DELTA = 49°32'47"
D = 93°55'39"
T = 28.15'
L = 52.75'
R = 61.00'
PC STA = 136+75.45
PT STA = 137+28.20

CURVE 16
PI STA = 137+56.56
Y = 177728.486
X = 567659.191
DELTA = 25°33'56"
D = 45°50'12"
T = 28.36'
L = 55.78'
R = 125.00'
PC STA = 137+28.20
PT STA = 137+83.97

CURVE 17
PI STA = 138+02.07
Y = 177773.374
X = 567671.158
DELTA = 22°44'14"
D = 63°39'43"
T = 18.10'
L = 35.72'
R = 90.00'
PC STA = 137+83.97
PT STA = 138+19.69

CURVE 18
PI STA = 139+75.70
Y = 177945.866
X = 567647.479
DELTA = 7°55'04"
D = 5°43'46"
T = 69.20'
L = 138.19'
R = 1000.00'
PC STA = 139+06.50
PT STA = 140+44.69

CURVE 2
PI STA = 133+05.54
Y = 177311.158
X = 567680.947
DELTA = 5°00'59"
D = 5°16'12"
T = 47.62'
L = 95.18'
R = 1087.18'
PC STA = 132+57.92
PT STA = 133+53.10

CURVE 3
PI STA = 134+41.64
Y = 177443.672
X = 567712.239
DELTA = 20°33'51"
D = 11°44'23"
T = 88.54'
L = 175.17'
R = 488.06'
PC STA = 133+53.10
PT STA = 135+28.27

CURVE 4
PI STA = 135+81.43
Y = 177584.254
X = 567694.514
DELTA = 20°25'11"
D = 45°50'12"
T = 22.51'
L = 44.55'
R = 125.00'
PC STA = 135+58.91
PT STA = 136+03.46

CURVE 5
PI STA = 136+25.41
Y = 177627.509
X = 567704.808
DELTA = 24°45'34"
D = 57°17'45"
T = 21.95'
L = 43.21'
R = 100.00'
PC STA = 136+03.46
PT STA = 136+46.68

CURVE 6
PI STA = 136+73.33
Y = 177665.729
X = 567734.825
DELTA = 47°11'56"
D = 93°55'39"
T = 26.65'
L = 50.25'
R = 61.00'
PC STA = 136+46.68
PT STA = 136+96.93

CURVE 7
PI STA = 137+10.59
Y = 177705.535
X = 567728.483
DELTA = 35°14'40"
D = 133°14'46"
T = 13.66'
L = 26.45'
R = 43.00'
PC STA = 136+96.93
PT STA = 137+23.38

CURVE 8
PI STA = 137+49.09
Y = 177733.724
X = 567700.994
DELTA = 28°44'16"
D = 57°04'55"
T = 25.71'
L = 50.34'
R = 100.37'
PC STA = 137+23.38
PT STA = 137+73.72

CURVE 9
PI STA = 139+06.24
Y = 177886.908
X = 567661.384
DELTA = 14°23'09"
D = 5°27'24"
T = 132.51'
L = 263.64'
R = 1050.00'
PC STA = 137+73.72
PT STA = 140+37.36

PRC: 133+53.10
Y=177357.5057
X=567691.8914

PT: 135+28.27
Y=177531.4956
X=567701.0234

PC: 135+58.91
Y=177561.9100
X=567697.2708

PCC: 136+03.46
Y=177606.1555
X=567699.7260

PRC: 136+46.68
Y=177644.7706
X=567718.3648

PCC: 136+96.93
Y=177692.0465
X=567730.6318

PRC: 137+23.38
Y=177715.3110
X=567718.9434

PCC: 137+73.72
Y=177758.4984
X=567694.1089

PT: 140+37.36
Y=178019.4228
X=567661.5883

PI: 144+04.86
Y=178386.9271
X=567661.4660

PI: 144+16.55
Y=178386.9320
X=567647.4660

PI: 146+74.70
Y=178656.7653
X=567662.0190

PI: 146+86.39
Y=178656.7764
X=567648.0190

PRC: 137+28.20
Y=177706.9190
X=567640.7752

PCC: 137+83.97
Y=177755.8888
X=567666.4963

PT: 138+19.69
Y=177791.3021
X=567668.6988

PC: 139+06.50
Y=177877.3055
X=567656.9032

PT: 140+44.69
Y=178015.0705
X=567647.5897

PCC: 136+75.45
Y=177657.7097
X=567626.9247

PRC: 136+32.38
Y=177625.0605
X=567652.2010

PCC: 135+93.14
Y=177595.4995
X=567675.5761

PCC: 135+42.67
Y=177545.5148
X=567682.4419

PT: 133+14.62
Y=177319.8370
X=567657.5705

PC: 134+08.53
Y=177412.0267
X=567675.4444

N10° 58' 21"E
93.91'

N7° 02' 01"W
30.65'

N7° 48' 35"W
86.81'

N0° 01' 09"W
371.86'

N0° 07' 03"E
2644.05'

S89° 53' 09"W
2644.30'

S89° 39' 00"E
2654.64'

CP4
CP BERNTSEN FENO
STA. 138+03.92, 81.53' RT
Y=177810.72
X=567735.19
ELEV.=792.01

WITNESS CORNER
CONCRETE MONUMENT
WITH BRASS CAP
Y= 178,381.663
X= 565,009.175

COMPUTED HOLDING
SEWRPC DISTANCE FROM
WC - BEARING ROTATED
BASED ON EAST LINE OF
SE ¼ SEC 19-3-21
Y= 178,381.667
X= 565,010.675

CAST IRON HIGHWAY
PLATE
Y= 178,386.934
X= 567,653.466

CAST IRON MONUMENT
WITH BRASS CAP
Y= 181,030.975
X= 567,658.885

CAST IRON MONUMENT
WITH BRASS CAP
Y= 178,370.715
X= 570,308.055

CTH C WEST R/L

CTH C EAST R/L

USH 45 SB MEDIAN R/L

USH 45 NB MEDIAN R/L

USH 45 R/L

N

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	ALIGNMENT PLAN - ROUNDABOUT DETAILS	SHEET 227	E

2

138+02.07
73.374
71.158
22°44'14"
9'43"

2'
0'
137+83.97
138+19.69

139+75.70
45.866
47.479
7°55'04"
46"
0'
9'
00'
139+06.50
140+44.69

CP5
CP BERNTSEN FENO
STA. 152+86.56, 42.28' LT
Y=179293.41
X=567613.04
ELEV.=794.70

EP: 150+11.42
Y=178981.7668
X=567653.0127

03"E 148
148
150
150
155
160
USH 45 R/L

EP: 149+99.73
Y=178981.7588
X=567656.9073

T 3 N
R 18 17
19 20

N

2

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	ALIGNMENT PLAN - ROUNDABOUT DETAILS	SHEET 228	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\02 - TYPICAL SECTIONS AND DETAILS\027203_AD ROUNDABOUT USH 45.DWG
LAYOUT NAME - 027225_AD
PLOT DATE : ----
PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:100 FT

CURVE 25
PI STA = 49+29.47
Y = 177679.910
X = 567587.748
DELTA = 9°39'06"
D = 11°03'39"
T = 43.73'
L = 87.26'
R = 518.00'
PC STA = 48+85.73
PT STA = 49+72.99

CURVE 26
PI STA = 49+86.52
Y = 177706.499
X = 567638.462
DELTA = 10°46'32"
D = 39°56'33"
T = 13.53'
L = 26.98'
R = 143.45'
PC STA = 49+72.99
PT STA = 49+99.97

CURVE 27
PI STA = 50+23.15
Y = 177729.370
X = 567667.168
DELTA = 41°22'16"
D = 93°21'14"
T = 23.17'
L = 44.32'
R = 61.37'
PC STA = 49+99.97
PT STA = 50+44.29

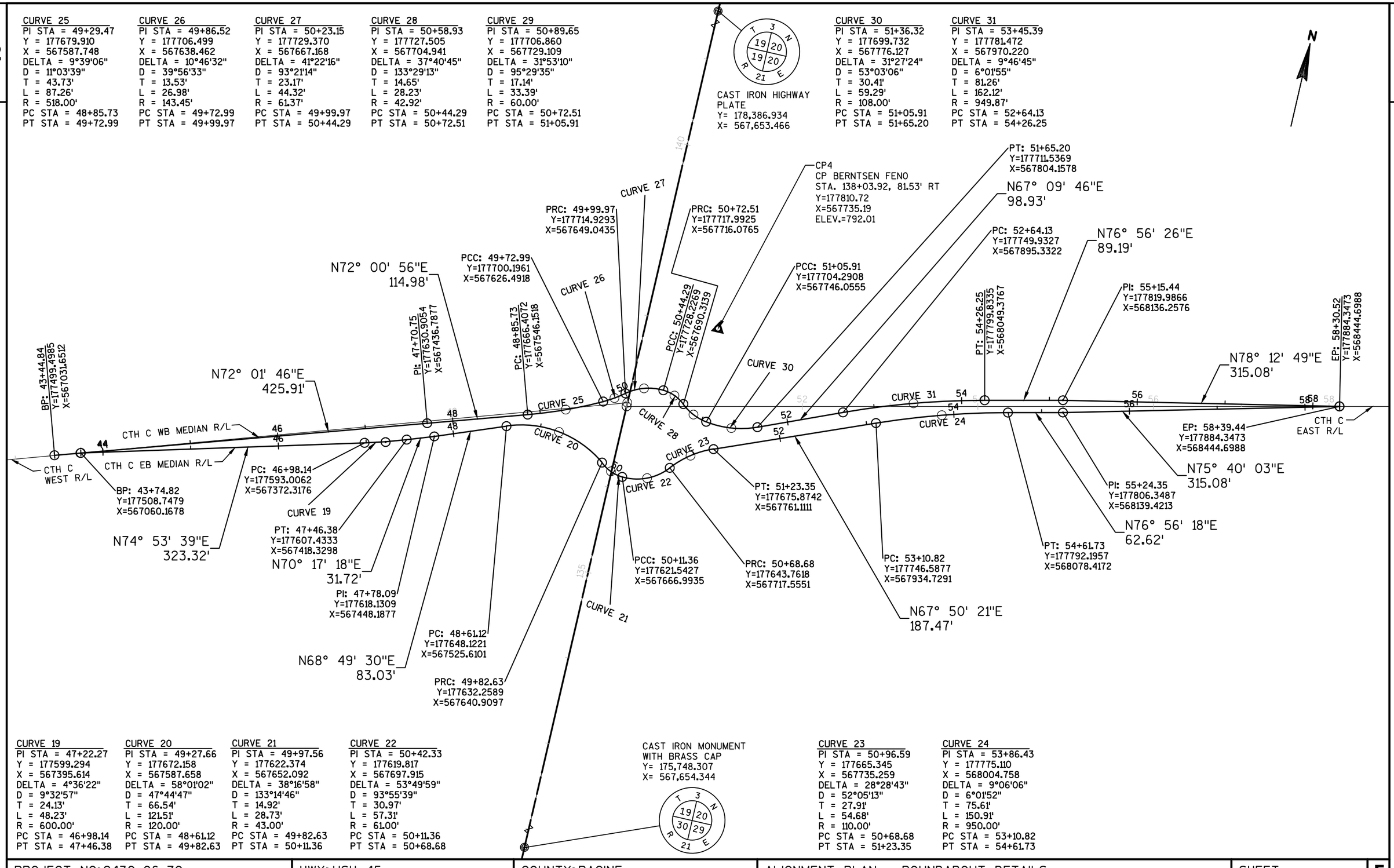
CURVE 28
PI STA = 50+58.93
Y = 177727.505
X = 567704.941
DELTA = 37°40'45"
D = 133°29'13"
T = 14.65'
L = 28.23'
R = 42.92'
PC STA = 50+44.29
PT STA = 50+72.51

CURVE 29
PI STA = 50+89.65
Y = 177706.860
X = 567729.109
DELTA = 31°53'10"
D = 95°29'35"
T = 17.14'
L = 33.39'
R = 60.00'
PC STA = 50+72.51
PT STA = 51+05.91

CAST IRON HIGHWAY PLATE
Y= 178,386.934
X= 567,653.466

CURVE 30
PI STA = 51+36.32
Y = 177699.732
X = 567776.127
DELTA = 31°27'24"
D = 53°03'06"
T = 30.41'
L = 59.29'
R = 108.00'
PC STA = 51+05.91
PT STA = 51+65.20

CURVE 31
PI STA = 53+45.39
Y = 177781.472
X = 567970.220
DELTA = 9°46'45"
D = 6°01'55"
T = 81.26'
L = 162.12'
R = 949.87'
PC STA = 52+64.13
PT STA = 54+26.25



CURVE 19
PI STA = 47+22.27
Y = 177599.294
X = 567395.614
DELTA = 4°36'22"
D = 9°32'57"
T = 24.13'
L = 48.23'
R = 600.00'
PC STA = 46+98.14
PT STA = 47+46.38

CURVE 20
PI STA = 49+27.66
Y = 177672.158
X = 567587.658
DELTA = 58°01'02"
D = 47°44'47"
T = 66.54'
L = 121.51'
R = 120.00'
PC STA = 48+61.12
PT STA = 49+82.63

CURVE 21
PI STA = 49+97.56
Y = 177622.374
X = 567652.092
DELTA = 38°16'58"
D = 133°14'46"
T = 14.92'
L = 28.73'
R = 43.00'
PC STA = 49+82.63
PT STA = 50+11.36

CURVE 22
PI STA = 50+42.33
Y = 177619.817
X = 567697.915
DELTA = 53°49'59"
D = 93°55'39"
T = 30.97'
L = 57.31'
R = 61.00'
PC STA = 50+11.36
PT STA = 50+68.68

CAST IRON MONUMENT
WITH BRASS CAP
Y= 175,748.307
X= 567,654.344

CURVE 23
PI STA = 50+96.59
Y = 177665.345
X = 567735.259
DELTA = 28°28'43"
D = 52°05'13"
T = 27.91'
L = 54.68'
R = 110.00'
PC STA = 50+68.68
PT STA = 51+23.35

CURVE 24
PI STA = 53+86.43
Y = 177775.110
X = 568004.758
DELTA = 9°06'06"
D = 6°01'52"
T = 75.61'
L = 150.91'
R = 950.00'
PC STA = 53+10.82
PT STA = 54+61.73

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	ALIGNMENT PLAN - ROUNDABOUT DETAILS	SHEET 229	E

2

CAST IRON HIGHWAY
PLATE
Y= 178,386.934
X= 567,653.466

CP4
CP BERNTSEN FENO
STA. 138+03.92, 81.53' RT
Y=177810.72
X=567735.19
ELEV.=792.01

CURVE 32
PI STA = 0+75.35
Y = 177732.117
X = 567615.069
DELTA = 102°00'45"
D = 93°55'39"
T = 75.35'
L = 108.61'
R = 61.00'
PC STA = 0+00.00
PT STA = 1+08.61

BP: 0+00.00
EP: 3+34.42
Y=177728.2269
X=567690.3139

CURVE 35
PI STA = 3+10.69
Y = 177726.486
X = 567725.144
DELTA = 78°05'05"
D = 133°14'40"
T = 34.87'
L = 58.60'
R = 43.00'
PC STA = 2+75.82
PT STA = 3+34.42

CTH C
EAST R/L

CTH C
WEST R/L

PCC: 1+08.61
Y=177657.7097
X=567626.9247

PCC: 2+75.82
Y=177692.0465
X=567730.6318

ROUNDABOUT CENTER
(FLANGE LINE OF CURB & GUTTER BTWEEN TRUCK APRON AND TRAVELED WAY)

CURVE 33
PI STA = 1+43.28
Y = 177623.474
X = 567632.380
DELTA = 77°45'11"
D = 133°14'46"
T = 34.67'
L = 58.35'
R = 43.00'
PC STA = 1+08.61
PT STA = 1+66.96

PCC: 1+66.96
Y=177621.5427
X=567666.9935

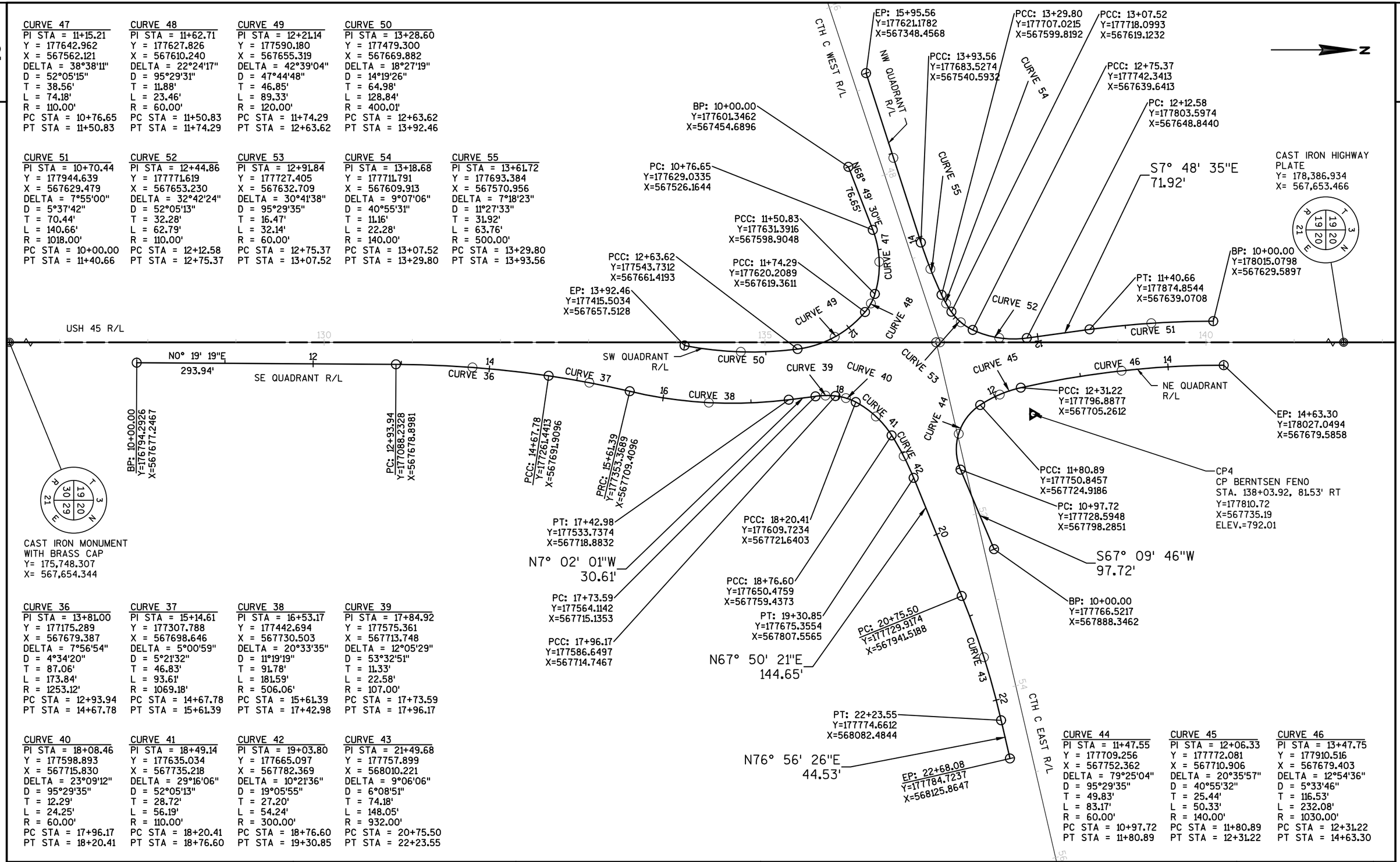
CURVE 34
PI STA = 2+42.62
Y = 177617.328
X = 567742.537
DELTA = 102°14'49"
D = 93°55'39"
T = 75.66'
L = 108.86'
R = 61.00'
PC STA = 1+66.96
PT STA = 2+75.82

CAST IRON MONUMENT
WITH BRASS CAP
Y= 175,748.307
X= 567,654.344

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	ALIGNMENT PLAN - ROUNDABOUT DETAILS	SHEET 230	E

CURVE 47	CURVE 48	CURVE 49	CURVE 50
PI STA = 11+15.21	PI STA = 11+62.71	PI STA = 12+21.14	PI STA = 13+28.60
Y = 177642.962	Y = 177627.826	Y = 177590.180	Y = 177479.300
X = 567562.121	X = 567610.240	X = 567655.319	X = 567669.882
DELTA = 38°38'11"	DELTA = 22°24'17"	DELTA = 42°39'04"	DELTA = 18°27'19"
D = 52°05'15"	D = 95°29'31"	D = 47°44'48"	D = 14°19'26"
T = 38.56'	T = 11.88'	T = 46.85'	T = 64.98'
L = 74.18'	L = 23.46'	L = 89.33'	L = 128.84'
R = 110.00'	R = 60.00'	R = 120.00'	R = 400.01'
PC STA = 10+76.65	PC STA = 11+50.83	PC STA = 11+74.29	PC STA = 12+63.62
PT STA = 11+50.83	PT STA = 11+74.29	PT STA = 12+63.62	PT STA = 13+92.46

CURVE 51	CURVE 52	CURVE 53	CURVE 54	CURVE 55
PI STA = 10+70.44	PI STA = 12+44.86	PI STA = 12+91.84	PI STA = 13+18.68	PI STA = 13+61.72
Y = 177944.639	Y = 177771.619	Y = 177727.405	Y = 177711.791	Y = 177693.384
X = 567629.479	X = 567653.230	X = 567632.709	X = 567609.913	X = 567570.956
DELTA = 7°55'00"	DELTA = 32°42'24"	DELTA = 30°41'38"	DELTA = 9°07'06"	DELTA = 7°18'23"
D = 5°37'42"	D = 52°05'13"	D = 95°29'35"	D = 40°55'31"	D = 11°27'33"
T = 70.44'	T = 32.28'	T = 16.47'	T = 11.16'	T = 31.92'
L = 140.66'	L = 62.79'	L = 32.14'	L = 22.28'	L = 63.76'
R = 1018.00'	R = 110.00'	R = 60.00'	R = 140.00'	R = 500.00'
PC STA = 10+00.00	PC STA = 12+12.58	PC STA = 12+75.37	PC STA = 13+07.52	PC STA = 13+29.80
PT STA = 11+40.66	PT STA = 12+75.37	PT STA = 13+07.52	PT STA = 13+29.80	PT STA = 13+93.56



CURVE 36	CURVE 37	CURVE 38	CURVE 39
PI STA = 13+81.00	PI STA = 15+14.61	PI STA = 16+53.17	PI STA = 17+84.92
Y = 177175.289	Y = 177307.788	Y = 177442.694	Y = 177575.361
X = 567679.387	X = 567698.646	X = 567730.503	X = 567713.748
DELTA = 7°56'54"	DELTA = 5°00'59"	DELTA = 20°33'35"	DELTA = 12°05'29"
D = 4°34'20"	D = 5°21'32"	D = 11°19'19"	D = 53°32'51"
T = 87.06'	T = 46.83'	T = 91.78'	T = 11.33'
L = 173.84'	L = 93.61'	L = 181.59'	L = 22.58'
R = 1253.12'	R = 1069.18'	R = 506.06'	R = 107.00'
PC STA = 12+93.94	PC STA = 14+67.78	PC STA = 15+61.39	PC STA = 17+73.59
PT STA = 14+67.78	PT STA = 15+61.39	PT STA = 17+42.98	PT STA = 17+96.17

CURVE 40	CURVE 41	CURVE 42	CURVE 43
PI STA = 18+08.46	PI STA = 18+49.14	PI STA = 19+03.80	PI STA = 21+49.68
Y = 177598.893	Y = 177635.034	Y = 177665.097	Y = 177757.899
X = 567715.830	X = 567735.218	X = 567782.369	X = 568010.221
DELTA = 23°09'12"	DELTA = 29°16'06"	DELTA = 10°21'36"	DELTA = 9°06'06"
D = 95°29'35"	D = 52°05'13"	D = 19°05'55"	D = 6°08'51"
T = 12.29'	T = 28.72'	T = 27.20'	T = 74.18'
L = 24.25'	L = 56.19'	L = 54.24'	L = 148.05'
R = 60.00'	R = 110.00'	R = 300.00'	R = 932.00'
PC STA = 17+96.17	PC STA = 18+20.41	PC STA = 18+76.60	PC STA = 20+75.50
PT STA = 18+20.41	PT STA = 18+76.60	PT STA = 19+30.85	PT STA = 22+23.55

CURVE 44	CURVE 45	CURVE 46
PI STA = 11+47.55	PI STA = 12+06.33	PI STA = 13+47.75
Y = 177709.256	Y = 177772.081	Y = 177910.516
X = 567752.362	X = 567710.906	X = 567679.403
DELTA = 79°25'04"	DELTA = 20°35'57"	DELTA = 12°54'36"
D = 95°29'35"	D = 40°55'32"	D = 5°33'46"
T = 49.83'	T = 25.44'	T = 116.53'
L = 83.17'	L = 50.33'	L = 232.08'
R = 60.00'	R = 140.00'	R = 1030.00'
PC STA = 10+97.72	PC STA = 11+80.89	PC STA = 12+31.22
PT STA = 11+80.89	PT STA = 12+31.22	PT STA = 14+63.30

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	ALIGNMENT PLAN - ROUNDABOUT DETAILS	SHEET 231	E

2430-06-70

Line	Item	Item Description	Unit	Total	Qty
0010	201.0105	Clearing	STA	82.000	82.000
0020	201.0205	Grubbing	STA	82.000	82.000
0030	203.0100	Removing Small Pipe Culverts	EACH	56.000	56.000
0040	203.0200	Removing Old Structure (station) 01. 103+50	LS	1.000	1.000
0050	203.0200	Removing Old Structure (station) 02. 191+37	LS	1.000	1.000
0060	203.0200	Removing Old Structure (station) 03. 242+04	LS	1.000	1.000
0070	203.0200	Removing Old Structure (station) 04. 266+53	LS	1.000	1.000
0080	204.0100	Removing Pavement	SY	32,988.000	32,988.000
0090	204.0150	Removing Curb & Gutter	LF	1,956.000	1,956.000
0100	204.0165	Removing Guardrail	LF	1,682.000	1,682.000
0110	204.0195	Removing Concrete Bases	EACH	11.000	11.000
0120	205.0100	Excavation Common	CY	171,702.000	171,702.000
0130	205.0400	Excavation Marsh	CY	4,039.000	4,039.000
0140	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	4,293.000	4,293.000
0150	206.2000	Excavation for Structures Culverts (structure) 01. C-51-23	LS	1.000	1.000
0160	206.2000	Excavation for Structures Culverts (structure) 02. C-51-64	LS	1.000	1.000
0170	206.2000	Excavation for Structures Culverts (structure) 03. C-51-65	LS	1.000	1.000
0180	206.2000	Excavation for Structures Culverts (structure) 04. C-51-67	LS	1.000	1.000
0190	206.5000	Cofferdams (structure) 02. C-51-64	LS	1.000	1.000
0200	206.5000	Cofferdams (structure) 03. C-51-65	LS	1.000	1.000
0210	209.0300.S	Backfill Coarse Aggregate (size) 01. No. 2	CY	2.000	2.000
0220	209.2500	Backfill Granular Grade 2	TON	13,662.000	13,662.000
0230	210.2500	Backfill Structure Type B	TON	3,130.000	3,130.000
0240	213.0100	Finishing Roadway (project) 01. 2430-06-70	EACH	1.000	1.000
0250	305.0110	Base Aggregate Dense 3/4-Inch	TON	8,503.000	8,503.000
0260	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	74,725.000	74,725.000
0270	310.0110	Base Aggregate Open-Graded	TON	703.000	703.000
0280	311.0110	Breaker Run	TON	118,971.000	118,971.000
0290	311.0115	Breaker Run	CY	435.000	435.000
0300	371.1000.S	QMP Base Aggregate Dense 1 1/4-Inch Compaction	TON	73,113.000	73,113.000
0310	405.0100	Coloring Concrete WisDOT Red	CY	204.000	204.000
0320	415.0080	Concrete Pavement 8-Inch	SY	960.000	960.000
0330	415.0120	Concrete Pavement 12-Inch	SY	242.000	242.000
0340	416.0160	Concrete Driveway 6-Inch	SY	447.000	447.000
0350	416.0260	Concrete Driveway HES 6-Inch	SY	359.000	359.000
0360	416.0512	Concrete Truck Apron 12-Inch	SY	371.000	371.000

2430-06-70

Line	Item	Item Description	Unit	Total	Qty
0370	416.0610	Drilled Tie Bars	EACH	105.000	105.000
0380	440.4410	Incentive IRI Ride	DOL	13,049.000	13,049.000
0390	455.0605	Tack Coat	GAL	4,767.000	4,767.000
0400	460.2000	Incentive Density HMA Pavement	DOL	21,930.000	21,930.000
0410	460.6223	HMA Pavement 3 MT 58-28 S	TON	19,856.000	19,856.000
0420	460.6224	HMA Pavement 4 MT 58-28 S	TON	14,183.000	14,183.000
0430	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	545.000	545.000
0440	465.0315	Asphaltic Flumes	SY	267.000	267.000
0450	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	14,327.000	14,327.000
0460	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	8,140.000	8,140.000
0470	502.4205	Adhesive Anchors No. 5 Bar	EACH	42.000	42.000
0480	504.0100	Concrete Masonry Culverts	CY	654.000	654.000
0490	505.0400	Bar Steel Reinforcement HS Structures	LB	90,070.000	90,070.000
0500	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	10,870.000	10,870.000
0510	511.1200	Temporary Shoring (structure) 01. C-51-23	SF	420.000	420.000
0520	516.0500	Rubberized Membrane Waterproofing	SY	112.000	112.000
0530	516.0600.S	Sheet Membrane Waterproofing	SY	56.000	56.000
0540	521.0112	Culvert Pipe Corrugated Steel 12-Inch	LF	684.000	684.000
0550	521.0115	Culvert Pipe Corrugated Steel 15-Inch	LF	224.000	224.000
0560	521.0118	Culvert Pipe Corrugated Steel 18-Inch	LF	388.000	388.000
0570	521.0124	Culvert Pipe Corrugated Steel 24-Inch	LF	195.000	195.000
0580	521.1012	Apron Endwalls for Culvert Pipe Steel 12-Inch	EACH	32.000	32.000
0590	521.1015	Apron Endwalls for Culvert Pipe Steel 15-Inch	EACH	6.000	6.000
0600	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	8.000	8.000
0610	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	4.000	4.000
0620	521.1518	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 6 to 1	EACH	8.000	8.000
0630	521.1524	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 24-Inch 6 to 1	EACH	6.000	6.000
0640	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	160.000	160.000
0650	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	514.000	514.000
0660	522.0318	Culvert Pipe Reinforced Concrete Class IV 18-Inch	LF	180.000	180.000
0670	522.0330	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	84.000	84.000
0680	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	2.000	2.000
0690	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	1.000	1.000
0700	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	14.000	14.000
0710	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	16.000	16.000

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Line	Item	Item Description	Unit	Total	Qty
0720	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	16.000	16.000
0730	523.0519	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	4.000	4.000
0740	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	8,323.000	8,323.000
0750	601.0551	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	LF	1,942.000	1,942.000
0760	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	11,319.000	11,319.000
0770	601.0574	Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type G	LF	415.000	415.000
0780	601.0582	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type T	LF	575.000	575.000
0790	601.0600	Concrete Curb Pedestrian	LF	61.000	61.000
0800	602.0410	Concrete Sidewalk 5-Inch	SF	27,955.000	27,955.000
0810	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	276.000	276.000
0820	603.8000	Concrete Barrier Temporary Precast Delivered	LF	200.000	200.000
0830	603.8125	Concrete Barrier Temporary Precast Installed	LF	200.000	200.000
0840	606.0100	Riprap Light	CY	983.000	983.000
0850	606.0200	Riprap Medium	CY	281.000	281.000
0860	606.0300	Riprap Heavy	CY	240.000	240.000
0870	606.0500	Grouted Riprap Light	CY	10.000	10.000
0880	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	272.000	272.000
0890	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	31.000	31.000
0900	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	91.000	91.000
0910	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	1,774.000	1,774.000
0920	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	34.000	34.000
0930	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	657.000	657.000
0940	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	116.000	116.000
0950	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	1,201.000	1,201.000
0960	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	695.000	695.000
0970	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	127.000	127.000
0980	608.0518	Storm Sewer Pipe Reinforced Concrete Class V 18-Inch	LF	21.000	21.000
0990	610.0119	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 19x30-Inch	LF	211.000	211.000
1000	610.0419	Storm Sewer Pipe Reinforced Concrete Horizontal	LF	534.000	534.000

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Line	Item	Item Description	Unit	Total	Qty
		Elliptical Class HE-IV 19x30-Inch			
1010	611.0530	Manhole Covers Type J	EACH	6.000	6.000
1020	611.0612	Inlet Covers Type C	EACH	10.000	10.000
1030	611.0624	Inlet Covers Type H	EACH	44.000	44.000
1040	611.0627	Inlet Covers Type HM	EACH	40.000	40.000
1050	611.0630	Inlet Covers Type HM-GJ	EACH	4.000	4.000
1060	611.0642	Inlet Covers Type MS	EACH	3.000	3.000
1070	611.0645	Inlet Covers Type MS-A	EACH	2.000	2.000
1080	611.0652	Inlet Covers Type T	EACH	4.000	4.000
1090	611.1005	Catch Basins 5-FT Diameter	EACH	17.000	17.000
1100	611.1006	Catch Basins 6-FT Diameter	EACH	1.000	1.000
1110	611.1230	Catch Basins 2x3-FT	EACH	2.000	2.000
1120	611.2005	Manholes 5-FT Diameter	EACH	9.000	9.000
1130	611.2006	Manholes 6-FT Diameter	EACH	1.000	1.000
1140	611.3004	Inlets 4-FT Diameter	EACH	16.000	16.000
1150	611.3225	Inlets 2x2.5-FT	EACH	2.000	2.000
1160	611.3230	Inlets 2x3-FT	EACH	72.000	72.000
1170	611.3901	Inlets Median 1 Grate	EACH	5.000	5.000
1180	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	965.000	965.000
1190	612.0208	Pipe Underdrain Unperforated 8-Inch	LF	200.000	200.000
1200	612.0210	Pipe Underdrain Unperforated 10-Inch	LF	200.000	200.000
1210	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	4,720.000	4,720.000
1220	612.0700	Drain Tile Exploration	LF	1,000.000	1,000.000
1230	612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	EACH	96.000	96.000
1240	616.0700.S	Fence Safety	LF	562.000	562.000
1250	619.1000	Mobilization	EACH	1.000	1.000
1260	620.0100	Concrete Corrugated Median	SF	1,030.000	1,030.000
1270	620.0300	Concrete Median Sloped Nose	SF	407.000	407.000
1280	624.0100	Water	MGAL	1,457.000	1,457.000
1290	625.0500	Salvaged Topsoil	SY	141,526.000	141,526.000
1300	627.0200	Mulching	SY	104,459.000	104,459.000
1310	628.1104	Erosion Bales	EACH	92.000	92.000
1320	628.1504	Silt Fence	LF	6,038.000	6,038.000
1330	628.1520	Silt Fence Maintenance	LF	6,038.000	6,038.000
1340	628.1905	Mobilizations Erosion Control	EACH	14.000	14.000
1350	628.1910	Mobilizations Emergency Erosion Control	EACH	8.000	8.000
1360	628.2002	Erosion Mat Class I Type A	SY	50,770.000	50,770.000
1370	628.2006	Erosion Mat Urban Class I Type A	SY	23,364.000	23,364.000
1380	628.7005	Inlet Protection Type A	EACH	6.000	6.000

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Line	Item	Item Description	Unit	Total	Qty
1390	628.7020	Inlet Protection Type D	EACH	103.000	103.000
1400	628.7504	Temporary Ditch Checks	LF	1,605.000	1,605.000
1410	628.7515.S	Stone or Rock Ditch Checks	CY	494.000	494.000
1420	628.7555	Culvert Pipe Checks	EACH	41.000	41.000
1430	628.7570	Rock Bags	EACH	72.000	72.000
1440	629.0210	Fertilizer Type B	CWT	99.000	99.000
1450	630.0110	Seeding Mixture No. 10	LB	518.000	518.000
1460	630.0130	Seeding Mixture No. 30	LB	2,127.000	2,127.000
1470	630.0140	Seeding Mixture No. 40	LB	421.000	421.000
1480	630.0200	Seeding Temporary	LB	1,911.000	1,911.000
1490	633.5200	Markers Culvert End	EACH	44.000	44.000
1500	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	85.000	85.000
1510	634.0622	Posts Wood 4x6-Inch X 22-FT	EACH	10.000	10.000
1520	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	78.000	78.000
1530	634.0816	Posts Tubular Steel 2x2-Inch X 16-FT	EACH	6.000	6.000
1540	635.0200	Sign Supports Structural Steel HS	LB	600.000	600.000
1550	636.0100	Sign Supports Concrete Masonry	CY	1.200	1.200
1560	636.0500	Sign Supports Steel Reinforcement	LB	68.000	68.000
1570	637.2210	Signs Type II Reflective H	SF	1,093.850	1,093.850
1580	637.2230	Signs Type II Reflective F	SF	404.500	404.500
1590	638.2101	Moving Signs Type I	EACH	1.000	1.000
1600	638.2102	Moving Signs Type II	EACH	10.000	10.000
1610	638.2602	Removing Signs Type II	EACH	92.000	92.000
1620	638.3000	Removing Small Sign Supports	EACH	100.000	100.000
1630	642.5401	Field Office Type D	EACH	1.000	1.000
1640	643.0100	Traffic Control (project) 01. 2430-06-70	EACH	1.000	1.000
1650	643.0420	Traffic Control Barricades Type III	DAY	4,884.000	4,884.000
1660	643.0705	Traffic Control Warning Lights Type A	DAY	7,516.000	7,516.000
1670	643.0900	Traffic Control Signs	DAY	6,669.000	6,669.000
1680	643.0910	Traffic Control Covering Signs Type I	EACH	8.000	8.000
1690	643.0920	Traffic Control Covering Signs Type II	EACH	10.000	10.000
1700	643.1000	Traffic Control Signs Fixed Message	SF	323.500	323.500
1710	643.1050	Traffic Control Signs PCMS	DAY	31.000	31.000
1720	643.2000	Traffic Control Detour (project) 01. 2430-06-70	EACH	1.000	1.000
1730	643.3000	Traffic Control Detour Signs	DAY	82,316.000	82,316.000
1740	645.0105	Geotextile Type C	SY	1,349.000	1,349.000
1750	645.0111	Geotextile Type DF Schedule A	SY	497.000	497.000
1760	645.0120	Geotextile Type HR	SY	1,228.000	1,228.000
1770	645.0130	Geotextile Type R	SY	4,508.000	4,508.000
1780	646.0106	Pavement Marking Epoxy 4-Inch	LF	31,628.000	31,628.000

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Line	Item	Item Description	Unit	Total	Qty
1790	646.0156	Pavement Marking Epoxy 18-Inch	LF	84.000	84.000
1800	646.0805.S	Pavement Marking Outfall	EACH	96.000	96.000
1810	646.0842.S	Pavement Marking Grooved Contrast Wet Reflective Epoxy 4-Inch	LF	37,641.000	37,641.000
1820	646.0844.S	Pavement Marking Grooved Contrast Wet Reflective Epoxy 8-Inch	LF	3,043.000	3,043.000
1830	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	9.000	9.000
1840	647.0356	Pavement Marking Words Epoxy	EACH	13.000	13.000
1850	647.0456	Pavement Marking Curb Epoxy	LF	825.000	825.000
1860	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	187.000	187.000
1870	647.0606	Pavement Marking Island Nose Epoxy	EACH	4.000	4.000
1880	647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	400.000	400.000
1890	647.0766	Pavement Marking Crosswalk Epoxy 6-Inch	LF	352.000	352.000
1900	647.0856	Pavement Marking Concrete Corrugated Median Epoxy	SF	960.000	960.000
1910	648.0100	Locating No-Passing Zones	MI	3.230	3.230
1920	650.4000	Construction Staking Storm Sewer	EACH	152.000	152.000
1930	650.4500	Construction Staking Subgrade	LF	20,711.000	20,711.000
1940	650.5000	Construction Staking Base	LF	20,711.000	20,711.000
1950	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	22,635.000	22,635.000
1960	650.6500	Construction Staking Structure Layout (structure) 01. C-51-23	LS	1.000	1.000
1970	650.6500	Construction Staking Structure Layout (structure) 02. C-51-64	LS	1.000	1.000
1980	650.6500	Construction Staking Structure Layout (structure) 03. C-51-65	LS	1.000	1.000
1990	650.6500	Construction Staking Structure Layout (structure) 04. C-51-67	LS	1.000	1.000
2000	650.6500	Construction Staking Structure Layout (structure) 05. R-51-78	LS	1.000	1.000
2010	650.7000	Construction Staking Concrete Pavement	LF	654.000	654.000
2020	650.8500	Construction Staking Electrical Installations (project) 01. 2430-06-70	LS	1.000	1.000
2030	650.9910	Construction Staking Supplemental Control (project) 01. 2430-06-70	LS	1.000	1.000
2040	650.9920	Construction Staking Slope Stakes	LF	20,711.000	20,711.000
2050	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	2,265.000	2,265.000
2060	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	295.000	295.000
2070	653.0140	Pull Boxes Steel 24x42-Inch	EACH	6.000	6.000
2080	653.0905	Removing Pull Boxes	EACH	10.000	10.000
2090	654.0105	Concrete Bases Type 5	EACH	16.000	16.000
2100	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000

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Line	Item	Item Description	Unit	Total	Qty
2110	655.0610	Electrical Wire Lighting 12 AWG	LF	2,088.000	2,088.000
2120	655.0615	Electrical Wire Lighting 10 AWG	LF	300.000	300.000
2130	655.0620	Electrical Wire Lighting 8 AWG	LF	10,600.000	10,600.000
2140	655.0640	Electrical Wire Lighting 1 AWG	LF	18.000	18.000
2150	656.0400	Electrical Service Main Lugs Only Meter Pedestal (location) 01. 134+50 11' LT	LS	1.000	1.000
2160	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	16.000	16.000
2170	657.0322	Poles Type 5-Aluminum	EACH	16.000	16.000
2180	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	8.000	8.000
2190	657.0715	Luminaire Arms Truss Type 4 1/2-Inch Clamp 15-FT	EACH	8.000	8.000
2200	659.1125	Luminaires Utility LED C	EACH	16.000	16.000
2210	659.2230	Lighting Control Cabinets 240/480 30-Inch	EACH	1.000	1.000
2220	690.0150	Sawing Asphalt	LF	1,056.000	1,056.000
2230	690.0250	Sawing Concrete	LF	190.000	190.000
2240	715.0415	Incentive Strength Concrete Pavement	DOL	361.000	361.000
2250	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,800.000	1,800.000
2260	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,800.000	1,800.000
2270	SPV.0060	Special 03. REMOVING FLASHING BEACON AND POLE EASTBOUND CTH A AT USH 45	EACH	1.000	1.000
2280	SPV.0060	Special 04. REMOVING FLASHING BEACON AND POLE WESTBOUND CTH A AT USH 45	EACH	1.000	1.000
2290	SPV.0060	Special 05. TRAFFIC FLASHING BEACON SYSTEM, SOLAR EASTBOUND CTH A AT USH 45	EACH	1.000	1.000
2300	SPV.0060	Special 06. TRAFFIC FLASHING BEACON SYSTEM, SOLAR WESTBOUND CTH A AT USH 45	EACH	1.000	1.000
2310	SPV.0060	Special 07. SECTION CORNER MONUMENTS	EACH	6.000	6.000
2320	SPV.0060	Special 08. INLET COVER TYPE H WITH CURB PLATE	EACH	12.000	12.000
2330	SPV.0075	Special 01. CONTRACTOR STAKING MISCELLANEOUS	HRS	30.000	30.000
2340	SPV.0085	Special 01. NO MOW FESCUE	LB	62.000	62.000
2350	SPV.0090	Special 01. TIMBER FENCE FOR MSE WALL	LF	176.000	176.000
2360	SPV.0090	Special 02. HEAVY DUTY SILT FENCE	LF	2,591.000	2,591.000
2370	SPV.0090	Special 03. Silt Fence 4 Ft Post Spacing	LF	260.000	260.000
2380	SPV.0105	Special 01. TEMPORARY DIVERSION CHANNELS	LS	1.000	1.000
2390	SPV.0105	Special 02. REMOVE TRAFFIC SIGNALS USH 45 & CTH C	LS	1.000	1.000
2400	SPV.0105	Special 03. REMOVE LOOP DETECTOR WIRE & LEAD-IN CABLE USH 45 & CTH C	LS	1.000	1.000
2410	SPV.0105	Special 11. LIGHTING SYSTEM INTEGRATOR	LS	1.000	1.000
2420	SPV.0105	Special 12. LIGHTING SYSTEM SURVEY	LS	1.000	1.000

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2430	SPV.0165	Special 01. Wall Modular Block Mechanically Stabilized Earth LRFD/QMP	SF	1,155.000	1,155.000

EARTHWORK SUMMARY

Division	From/To Station	Location	205.0100 Common Excavation (1)		Salvaged/Unusable Pavement Material (4)	Available Material (5)	205.0400 Marsh Excavation (6)	Expanded Marsh Backfill (7)	EBS Backfill (8)	Unexpanded Fill	Expanded Fill (9)	Waste (10)	Unsuitable Waste (11)	Total Waste (12)	209.2500 ** Backfill Granular Grade 2 (13)	311.0110 ** Breaker Run (14)
			Cut (2)	EBS Excavation (3)												
Division 1								Factor 1.50	Factor 1.00		Factor 1.20				TON	TON
	97+75/175+00	USH 45 Stage 1	64,038	3,202	8,445	55,593	0	0	3,202	11,910	14,292	41,301	3,202	44,503	0	5,763
	49+47.86/54+97.86	58th Rd	3,980	199	288	3,692	0	0	199	10	12	3,680	199	3,879	0	358
	43+75/47+99	CTH C West	2,655	133	250	2,405	0	0	133	351	421	1,984	133	2,117	0	239
	50+00/59+25	CTH C East	5,102	255	372	4,730	0	0	255	525	630	4,100	255	4,355	0	459
	46+50/50+00	Church Rd	1,719	86	146	1,574	0	0	86	31	37	1,537	86	1,623	0	155
Division 1 Subtotal			77,494	3,875	9,500	67,994	0	0	3,875	12,827	15,392	52,601	3,875	56,476	0	6,974
Division 2																
	175+00/268+40	USH 45 Stage 2	82,226	4,111	8,005	74,221	4,038.89	6,058	4,111	26,235	31,482	42,739	8,150	50,889	10,299	7,400
	50+00/51+60	52nd Rd	696	35	112	584	0	0	35	10	12	572	35	606	0	63
	50+00/53+35	Savage Rd	1,438	72	255	1,183	0	0	72	12	14	1,169	72	1,241	0	129
	47+00/54+00	CTH A	1,672	84	359	1,313	0	0	84	1,044	1,252	61	84	145	0	150
Division 2 Subtotal			86,032	4,302	8,730	77,302	4,039	6,058	4,302	27,300	32,760	44,541	8,340	52,882	10,299	7,743
Grand Total			163,525	8,176	18,230	145,295	4,039	6,058	8,176	40,127	48,153	97,143	12,215	109,358	**10,299**	14,717
Total Common Exc			171,702													

** ADDITIONAL QUANTITIES LISTED ELSEWHERE

Notes:

(1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
(2) Salvaged/Unsuable Pavement Material is included in Cut.
(3) EBS Excavation to be backfilled with Breaker Run
(4) Salvaged/Unusable Pavement Material
(5) Available Material = Cut - Salvaged/Unusuable Pavement Material
(6) Marsh Excavation - To be backfilled with Backfill Granular Grade 2
(7) Expanded Marsh Backfill - This is to be filled with Backfill Granular Grade 2
(8) EBS Backfill - This is to be filled with Breaker Run
(9) Expanded Fill Factor = 1.2
(10) Waste = Available Material - Expanded Fill ("0" means borrow area)
(11) Unsuitable Waste = EBS Excavation + Marsh Excavation
(12) Total Waste = Waste + Unsuitable Waste
(13) Backfill Granular Grade 2 = Expanded Marsh Backfill (CY) * 1.7 (TON/CY)
(14) Breaker Run = EBS Backfill (CY) * 1.8 (TON/CY)

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

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REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	OFFSET	DESCRIPTION	203.0100 * REMOVING SMALL PIPE CULVERTS EACH	209.2500 * BACKFILL GRANULAR GRADE 2 TON
99+00	USH 45	30' LT	DRIVEWAY CULVERT	1	---
100+00	USH 45	30' RT	FIELD ENTRANCE CULVERT	1	---
104+00	USH 45	30' RT	DRIVEWAY CULVERT	1	---
105+85	USH 45	30' LT	FIELD ENTRANCE CULVERT	1	---
107+40	USH 45	30' LT	DRIVEWAY CULVERT	1	---
110+75	USH 45	30' LT	FIELD ENTRANCE CULVERT	1	---
112+72	USH 45	UNDER ROADBED	24" CROSS CULVERT	1	53
116+90	58TH RD	30' RT	15" CROSS CULVERT	1	54
117+70	USH 45	30' LT	DRIVEWAY CULVERT	1	---
120+20	USH 45	UNDER ROADBED	24" CROSS CULVERT	1	48
120+95	USH 45	30' LT	DRIVEWAY CULVERT	1	---
140+10	USH 45	30' RT	DRIVEWAY CULVERT	1	---
140+48	USH 45	UNDER ROADBED	24" CROSS CULVERT	1	46
141+105	USH 45	30' RT	DRIVEWAY CULVERT	1	---
141+10	USH 45	25' LT	DRIVEWAY CULVERT	1	---
142+00	USH 45	25' LT	DRIVEWAY CULVERT	1	---
143+30	USH 45	30' RT	DRIVEWAY CULVERT	1	---
144+00	USH 45	30' RT	FIELD ENTRANCE CULVERT	1	---
144+60	USH 45	28' LT	DRIVEWAY CULVERT	1	---
147+85	USH 45	UNDER ROADBED	24" CROSS CULVERT	1	52
146+15	USH 45	30' LT	DRIVEWAY CULVERT	1	---
148+10	USH 45	30' LT	DRIVEWAY CULVERT	1	---
150+00	USH 45	30' LT	DRIVEWAY CULVERT	1	---
150+90	USH 45	30' LT	DRIVEWAY CULVERT	1	---
151+90	USH 45	30' RT	DRIVEWAY CULVERT	1	---
155+95	USH 45	30' LT	DRIVEWAY CULVERT	1	---
157+40	USH 45	30' RT	DRIVEWAY CULVERT	1	---
157+90	USH 45	30' LT	DRIVEWAY CULVERT	1	---
159+70	USH 45	30' LT	DRIVEWAY CULVERT	1	---
160+80	USH 45	30' LT	DRIVEWAY CULVERT	1	---
161+40	USH 45	30' RT	FIELD ENTRANCE CULVERT	1	---
164+30	USH 45	30' RT	DRIVEWAY CULVERT	1	---
166+40	USH 45	UNDER ROADBED	30" CROSS CULVERT	1	68
174+85	USH 45	UNDER ROADBED	24" CROSS CULVERT	1	48
180+90	USH 45	30' LT	FIELD ENTRANCE CULVERT	1	---
183+10	USH 45	20' LT	DRIVEWAY CULVERT	1	---
183+20	52ND RD	33' RT	18" CROSS CULVERT	1	44
192+30	USH 45	30' LT	DRIVEWAY CULVERT	1	---
193+00	SAVAGE RD	30' RT	18" CROSS CULVERT	1	41
195+65	USH 45	30' RT	DRIVEWAY CULVERT	1	---

continued

* ADDITIONAL QUANTITY ELSEWHERE

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	OFFSET	DESCRIPTION	203.0100 * REMOVING SMALL PIPE CULVERTS EACH	209.2500 * BACKFILL GRANULAR GRADE 2 TON
198+65	USH 45	30' LT	DRIVEWAY CULVERT	1	---
199+55	USH 45	30' LT	FIELD ENTRANCE CULVERT	1	---
212+00	USH 45	30' RT	DRIVEWAY CULVERT	1	---
216+45	USH 45	UNDER ROADBED	30" CROSS CULVERT	1	62
223+00	CTH A	65' LT	24" CROSS CULVERT	1	56
235+90	USH 45	30' RT	FIELD ENTRANCE CULVERT	1	---
246+70	USH 45	30' RT	DRIVEWAY CULVERT	1	---
251+30	USH 45	30' RT	FIELD ENTRANCE CULVERT	1	---
253+00	USH 45	UNDER ROADBED	30" CROSS CULVERT	1	60
255+30	USH 45	30' RT	FIELD ENTRANCE CULVERT	1	---
262+20	USH 45	30' RT	FIELD ENTRANCE CULVERT	1	---
262+85	USH 45	UNDER ROADBED	18" CROSS CULVERT	1	40
265+45	USH 45	30' LT	FIELD ENTRANCE CULVERT	1	---
268+05	USH 45	30' LT	DRIVEWAY CULVERT	1	---
TOTAL				**54**	**672**

* ADDITIONAL QUANTITY ELSEWHERE

CLEARING AND GRUBBING

STATION	-	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
98+17	-	111+35	USH 45	14	14
120+00	-	124+20	USH 45	5	5
126+90	-	130+70	USH 45	5	5
132+50	-	132+75	USH 45	1	1
134+10	-	135+70	USH 45	2	2
143+50	-	143+90	USH 45	1	1
149+50	-	155+00	USH 45	6	6
156+50	-	160+75	USH 45	5	5
179+30	-	185+80	USH 45	7	7
187+70	-	198+00	USH 45	11	11
199+00	-	201+00	USH 45	2	2
210+20	-	212+20	USH 45	3	3
214+30	-	215+90	USH 45	2	2
217+50	-	217+70	USH 45	1	1
220+00	-	220+20	USH 45	1	1
225+00	-	228+00	USH 45	3	3
230+00	-	230+20	USH 45	1	1
249+50	-	249+70	USH 45	1	1
256+60	-	256+80	USH 45	1	1
259+00	-	259+20	USH 45	1	1
262+00	-	263+50	USH 45	2	2
267+25	-	268+40	USH 45	2	2
44+40	-	47+10	CTC C	4	4
57+40	-	57+80	CTC C	1	1
		TOTAL		**82**	**82**

3

REMOVING PAVEMENT

STATION	TO	STATION	LOCATION	DESCRIPTION	204.0100 SY
97+75.	-	220+00.	USH 45	REMOVE BURIED CONCRETE PAVEMENT	29,883
255+70.	-	268+40.	USH 45	REMOVE BURIED CONCRETE PAVEMENT	3,104
				TOTAL	32,988

REMOVING CURB AND GUTTER

STATION	-	STATION	LOCATION	DESCRIPTION	OFFSETS	204.0150 LF
97+75.		98+15.	USH 45		LT	40
50+30.		53+65.	58TH RD	INCLUDES RADII	RT	368
50+30.		53+65.	58TH RD	INCLUDES RADII	LT	368
49+30.		50+65.	CTH C	RADII & ISLANDS	--	465
49+35.		49+80.	CHURCH RD	RADII	--	145
50+20.		50+80.	52ND RD	RADII	--	160
49+30.		50+55.	CTH A	RADII AND ISLANDS	--	410
		TOTAL				1,956

3

FINISHING ROADWAY

PROJECT I.D.	DESCRIPTION	213.0100 FINISHING ROADWAY EACH
2430-06-70	USH 45 (COLONY AVENUE)	1
	TOTAL	1

REMOVING GUARDRAIL

FROM STA	OFFSET FT	TO STA	OFFSET FT	LOCATION	204.0165 LF
190 + 53	22' RT	192 + 20	23' RT	USH 45	273
190 + 53	23' LT	192 + 21	23' LT	USH 45	274
240 + 56	24' RT	243 + 96	24' RT	USH 45	452
240 + 56	22' LT	243 + 98	22' LT	USH 45	454
265 + 25	25' RT	267 + 04	26' RT	USH 45	229
265 + 97	25' LT	267 + 76	26' LT	USH 45	373
			TOTAL		1,682

EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL

STATION	TO	STATION	LOCATION	205.0501.S EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM TONS
48+40		51+00	CTH C	1,717
48+40		51+00	CTH C	2,576
			TOTAL	4,293

REMOVING OLD STRUCTURE

FROM STA	LOCATION	203.0200 REMOVING OLD STRUCTURES EACH	209.2500 ** BACKFILL GRANULAR GRADE 2 TON
103 + 50	USH 45	1*	539
191 + 37	USH 45	1*	448
242 + 04	USH 45	1*	484
266 + 53	USH 45	1*	358
	TOTAL	4	1,829

* SEE ESTIMATED QUANTITIES IN STRUCTURES PLANS
** QUANTITIES LISTED ELSWHERE

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

PAVEMENT AND AGGREGATE ITEMS

STATION		STATION	LOCATION	305.0120** BASE AGG. DENSE 1 1/4 INCH TON	311.0110 BREAKER RUN TON	371.1000.S** QMP BASE AGGREGATE DENSE 1 1/4 INCH TON	440.7710 INCENTIVE IRI RIDE DOL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	455.0605 TACK COAT GAL	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL	624.0100 WATER MGAL
97+75	-	110+00	USH 45	4,169	6,430	4,169	928	1,423	1,016	342	1,570	83
110+00	-	120+00	USH 45	4,069	6,552	4,069	758	1,421	1,015	341	1,560	81
120+00	-	130+00	USH 45	3,426	5,422	3,426	758	980	700	235	1,080	69
130+00	-	140+00	USH 45	4,593	7,539	4,593	758	1,227	876	295	1,350	92
140+00	-	150+00	USH 45	3,569	5,505	3,569	758	1,021	729	245	1,130	71
150+00	-	160+00	USH 45	3,134	4,821	3,134	758	904	646	217	1,000	63
160+00	-	170+00	USH 45	3,437	4,906	3,437	758	914	653	219	1,010	69
170+00	-	180+00	USH 45	3,910	5,762	3,910	758	1,123	802	270	1,240	78
180+00	-	190+00	USH 45	4,396	6,854	4,396	758	1,392	994	334	1,530	88
190+00	-	200+00	USH 45	4,350	5,893	4,350	758	1,168	834	280	1,290	87
200+00	-	210+00	USH 45	3,717	4,335	3,717	758	787	562	189	870	74
210+00	-	220+00	USH 45	3,836	4,649	3,836	758	861	615	207	950	77
220+00	-	230+00	USH 45	4,173	6,152	4,173	758	1,223	873	294	1,350	83
230+00	-	240+00	USH 45	3,605	4,385	3,605	758	798	570	192	880	72
240+00	-	250+00	USH 45	3,514	4,544	3,514	758	838	599	201	920	70
250+00	-	260+00	USH 45	3,577	4,504	3,577	758	827	590	198	910	72
260+00	-	270+00	USH 45	3,190	3,895	3,190	758	720	515	173	800	64
270+00	-	280+00	58TH RD	991	1,678	991	---	270	193	65	300	20
280+00	-	290+00	CHURCH RD	723	1,057	723	---	185	132	44	210	14
290+00	-	300+00	CTH C WEST	1,745	2,569	1,745	---	485	346	116	540	35
300+00	-	310+00	CTH C EAST	2,602	3,863	2,602	---	693	495	166	770	52
205+00	-	49+50	52ND RD	164	232	164	---	48	35	12	60	3
210+00	-	50+00	SAVAGE RD	519	767	519	---	141	101	34	160	10
215+00	-	54+50	CTH A	1,444	1,941	1,444	---	407	290	98	450	29
TOTAL				72,855	104,254	72,855	13,049	19,856	14,183	4,767	21,930	1,457

** QUANTITIES LISTED ELSEWHERE

RUMBLE STRIPS

STATION		STATION	LOCATION	OFFSET	465.0425 ASPHALTIC SHOULDER RUMBLE STRIP 2-LANE RURAL (TYPE I) LF	465.0475 ASPHALTIC CENTER LINE RUMBLE STRIP 2-LANE RURAL LF
188+00.	-	220+58.	USH 45	LT	3,258	--
231+40.	-	268+40.	USH45	LT	3,700	--
198+00.	-	216+35.	USH45	RT	1,835	--
198+70.	-	216+35.	USH45	RT	1,765	--
225+41.	-	245+10.	USH45	RT	1,969	--
250+40.	-	268+40.	USH45	RT	1,800	--
175+00.	-	181+40.	USH45	--	--	640
185+40.	-	191+10.	USH45	--	--	570
195+10.	-	221+00.	USH45	--	--	2,590
225+00.	-	268+40.	USH45	--	--	4,340
TOTAL					14,327	8,140

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

3

DRIVEWAYS AND FIELD ENTRANCES

LOCATION	305.0110** BASE AGGREGATE DENSE 3/4 INCH TON	305.0120** BASE AGGREGATE DENSE 1 1/4 INCH TON	416.0160 CONCRETE DRIVEWAY 6-INCH SY	416.0260 CONCRETE DRIVEWAY HES 6-INCH SY	416.0610 DRILLED TIE BARS EACH	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
BEGINNING OF PROJECT TO 58TH	28	152	238	39	39	35
58TH	77	20	0	---	---	14
58TH TO CTH C	44	324	0	---	---	230
CTH C	59	189	0	79	15	112
CTH C TO CHURCH RD	374	276	209	241	51	73
CHURCH RD	19	0	0	---	---	0
CHURCH RD TO 52ND	63	0	0	---	---	0
52ND	---	---	---	---	---	---
52ND TO SAVAGE RD	26	0	0	---	---	0
SAVAGE RD	0	46	0	---	---	33
SAVAGE RD TO CTH A	141	34	0	---	---	24
CTH A	---	---	---	---	---	---
CTH A TO END OF PROJECT	375	34	0	---	---	24
TOTAL	1,207	1,076	447	359	105	545

** QUANTITIES LISTED ELSEWHERE

AGGREGRATE FOR SHOULDERS

STATION		STATION	LOCATION	RT/LT	305.0110** BASE AGGREGATE DENSE 3/4-INCH TON
120+70.	-	132+30.	USH 45	LT	355
145+00.	-	175+00.	USH 45	RT	919
162+00.	-	167+70.	USH 45	LT	175
171+00.	-	175+00.	USH 45	LT	123
175+00.	-	177+50.	USH 45	LT	77
175+00.	-	182+70.	USH 45	RT	236
185+50.	-	192+40.	USH 45	RT	211
188+00.	-	222+20.	USH 45	LT	1047
197+00.	-	222+45.	USH 45	RT	779
223+80.	-	246+00.	USH 45	RT	680
230+50.	-	255+00.	USH 45	LT	750
249+50.	-	268+40.	USH 45	RT	579
257+00.	-	268+40.	USH 45	LT	349
55+00.	-	55+50.	58TH	LT/RT	22
43+75.	-	46+50.	CTH C	LT/RT	168
55+00.	-	59+00.	CTH C	LT/RT	245
46+50.	-	49+15.	CHURCH	LT/RT	116
50+65.	-	51+60.	52ND	LT/RT	42
51+50.	-	53+40.	SAVAGE	LT/RT	83
47+00.	-	49+25.	CTH A	LT/RT	138
50+70.	-	54+00.	CTH A	LT/RT	202
TOTAL					7296

** QUANTITIES LISTED ELSEWHERE

3

SIDEWALK, TRUCK APRON, & CONCRETE PAVEMENT

STATION		STATION	LOCATION	371.1000.S** QMP BASE AGGREGATE DENSE 1 1/4 COMPACTION TON	305.0120** BASE AGGREGATE DENSE 1 1/4 INCH TONS	405.0100 COLORING CONCRETE WISDOT RED CY	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.0120 CONCRETE PAVEMENT 12-INCH SY	416.0512 CONCRETE TRUCK APRON 12-INCH SY	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	715.0415 INCENTIVE STRENGTH CONCRETE PAVEMENT DOL
97+75	-	117+50	USH 45	--	536	--	--	--	--	18,881	20	--
CTH C ROUNDABOUT				258	258	204	960	242	371	9,074	256	361
TOTAL				258	794	204	960	242	371	27,955	276	361

** QUANTITIES LISTED ELSEWHERE

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

3

CONCRETE CURB AND GUTTER

STATION	-	STATION	LOCATION	601.0411 30-INCH TYPE D LF	601.0551 4-INCH SLOPED 36-INCH TYPE A LF	601.0557 6-INCH SLOPED 36-INCH TYPE D LF	601.0574 4-INCH SLOPED 30-INCH TYPE G LF	601.0582 4-INCH SLOPED 36-INCH TYPE T LF	601.0600 CONCRETE CURB PEDESTRIAN LF	465.0315 ASPHALTIC FLUMES SY
97+75	-	126+00	USH 45	--	305	4,693	--	--	--	--
126+00	-	136+00	USH 45	3,184	--	--	--	--	13	13
137+50	-	147+00	USH 45	2,329	1,352	--	--	--	16	13
147+00	-	162+00	USH 45	--	--	1,880	--	--	--	13
177+50	-	188+00	USH 45	--	--	1,201	--	--	--	27
193+75	-	197+00	USH 45	--	--	332	--	--	--	--
223+75	-	230+50	USH 45	--	--	695	--	--	--	13
246+00	-	257+00	USH 45	--	--	547	--	--	--	40
		58TH ROAD		--	--	999	--	--	--	--
		CTH C ROUNDABOUT CIRCLE		--	--	--	415	575	--	--
		CTH C WEST LEG		1,219	285	--	--	--	15	13
		CTH C EAST LEG		1,591	--	--	--	--	18	27
		CHURCH ROAD		--	--	156	--	--	--	27
		52ND ROAD		--	--	157	--	--	--	27
		SAVAGE ROAD		--	--	271	--	--	--	--
		CTH A		--	--	388	--	--	--	53
			TOTAL	8,323	1,942	11,319	415	575	61	267

CONCRETE MEDIAN

STATION	LOCATION	620.0100 CONCRETE CORRUGATED MEDIAN SF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
126+00	USH 45	--	70
131+40	USH 45	--	60
132+00	USH 45	--	52
140+50	USH 45	--	40
146+50	USH 45	515	55
46+40	CTH C	515	70
55+00	CTH C	--	60
TOTAL		1,030	407

3

TEMPORARY STREAM DIVERSION

	209.2500** BACKFILL GRANULAR GRADE 2	310.0110 ** BASE AGGREGATE OPEN-GRADED	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	606.0100 RIP RAP LIGHT	628.1104 EROSION BALES	645.0130 ** GEOTEXTILE TYPE R	SPV.0105.01 TEMPORARY DIVERSION CHANNELS
	TON	TON	LF	LF	TON	EA	SY	LS
C-51-64	359	84	50	50	425	--	1480.0	---
C-51-65	72	34	37.5	37.5	107	92	392.0	---
C-51-67	72	45	50	50	155	--	551.1	---
C-51-23	359	64	62.5	62.5	296	--	1018.3	---
UNDISTRIBUTED	---	---	---	---	---	---	---	1
TOTAL	862	227	200	200	983	92	3,441.4	1

** QUANTITIES LISTED ELSEWHERE

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

CULVERT PIPE SUMMARY

							521.0112	521.0115	521.0118	521.0124		522.0124	522.0130	522.0318	522.0330
							CULVERT PIPE CORRUGATED STEEL					CULVERT PIPE REINFORCED CONCRETE			
												CLASS III		CLASS IV	
	INLET		OUTLET		ELEVATIONS		12-INCH	15-INCH	18-INCH	24-INCH	STEEL THICKNESS	24-INCH	30-INCH	18-INCH	30-INCH
LOCATION	STATION	OFFSET	STATION	OFFSET	INLET	OUTLET	LF	LF	LF	LF	(INCHES)	LF	LF	LF	LF
USH 45	112+73	43.26' RT	112+73	47' LT	771.15	769.84	--	--	--	--	--	--	--	90	--
USH 45	112+77	43.26' RT	112+77	47' LT	771.15	769.84	--	--	--	--	--	--	--	90	--
USH 45	166+53	42.03' LT	166+53	42.87' RT	773.45	772.59	--	--	--	--	--	--	85	--	--
USH 45	166+47	42.05' LT	166+47	42.93' RT	773.45	772.59	--	--	--	--	--	--	85	--	--
USH 45	174+50	42.46' LT	174+50	42.03' RT	773.91	773.39	--	--	--	--	--	--	--	--	84
USH 45	216+50	40.52' LT	216+50	40.61' RT	778.82	778.67	--	--	--	--	--	--	81	--	--
USH 45	216+56.6	40.53' LT	216+56.6	40.6' RT	778.82	778.67	--	--	--	--	--	--	81	--	--
USH 45	216+43.4	40.5' LT	216+43.4	40.62' RT	778.82	778.67	--	--	--	--	--	--	81	--	--
USH 45	253+00	48.81' LT	253+00	52.18' RT	767.12	766.28	--	--	--	--	--	--	101	--	--
USH 45	262+85	42.86' LT	262+85	50.68' RT	754.37	753.16	--	--	--	--	--	94	--	--	--
USH 45	104+22.48	63.37' RT	103+78.49	64.39' RT	759.93	759.25	--	--	44	--	0.064	--	--	--	--
USH 45	110+57	55.11' LT	110+95	56.38' LT	770.53	770.08	38	--	--	--	0.064	--	--	--	--
USH 45	117+59	496.2' RT	117+59.73	520.09' RT	789.34	788.84	24	--	--	--	0.064	--	--	--	--
USH 45	120+67	44.33' LT	121+13	48.29' LT	777.25	776.86	46	--	--	--	0.064	--	--	--	--
CTH C	46+33.39	33.18' LT	45+85.27	34.44' LT	790.80	790.62	48	--	--	--	0.064	--	--	--	--
CTH C	47+46.73	31.32' LT	47+02.75	32.84' LT	791.32	791.14	44	--	--	--	0.064	--	--	--	--
CTH C	55+52.5	36.84' LT	55+86.5	37.31' LT	786.58	786.20	--	--	34	--	0.064	--	--	--	--
CTH C	55+72	50.69' RT	56+04.92	52.12' RT	784.59	784.09	--	--	--	33	0.064	--	--	--	--
CTH C	56+48	37.76' LT	56+98	37.22' LT	785.55	785.00	--	--	50	--	0.064	--	--	--	--
CTH C	56+93.87	48.98' RT	57+29.79	46.63' RT	783.63	783.45	--	--	--	36	0.064	--	--	--	--
CTH C	58+59.5	38.62' RT	58+95.21	34.05' RT	782.36	782.10	--	--	--	36	0.064	--	--	--	--
USH 45	143+20.12	52.43' RT	143+64.1	53.77' RT	787.93	787.71	44	--	--	--	0.064	--	--	--	--
USH 45	143+81.07	54.13' RT	144+17.07	54.62' RT	787.63	787.45	36	--	--	--	0.064	--	--	--	--
USH 45	148+23.29	43.61' LT	147+97.45	46.49' LT	789.65	789.30	26	--	--	--	0.064	--	--	--	--
USH 45	152+18.18	46.11' RT	151+58.37	52' RT	790.51	789.85	60	--	--	--	0.064	--	--	--	--
USH 45	157+10	50.18' RT	157+72	51.4' RT	788.78	788.00	--	--	62	--	0.064	--	--	--	--
USH 45	161+14.5	45.72' RT	161+80.5	46.43' RT	783.60	782.00	--	--	66	--	0.064	--	--	--	--
USH 45	164+02.49	48.8' RT	164+62.46	50.68' RT	777.35	776.10	--	--	60	--	0.064	--	--	--	--
CHURCH RD	46+89.5	32.84' LT	47+21.5	32.84' LT	781.70	781.30	32	--	--	--	0.064	--	--	--	--
SAVAGE RD	52+03	27.13' RT	51+73	27.93' RT	770.50	769.76	30	--	--	--	0.064	--	--	--	--
SAVAGE RD	52+31.06	21.36' LT	51+91.58	27.63' LT	772.10	771.29	40	--	--	--	0.064	--	--	--	--
SAVAGE RD	53+02.48	26.23' RT	52+64.5	25.25' RT	772.65	772.05	38	--	--	--	0.064	--	--	--	--
USH 45	198+81.44	42.25' LT	198+41.47	40.72' LT	772.65	772.43	--	--	--	40	0.064	--	--	--	--
USH 45	199+77.87	45.92' LT	199+27.91	44.01' LT	773.10	772.87	--	--	--	50	0.064	--	--	--	--
USH 45	211+81.5	48.07' RT	212+25.5	47.97' RT	780.95	780.76	44	--	--	--	0.064	--	--	--	--
CTH A	49+22	25.9' LT	49+22	40.26' RT	782.06	781.84	--	--	--	--	--	66	--	--	--
USH 45	227+66	51.64' RT	228+58	54.36' RT	781.20	780.73	--	92	--	--	0.064	--	--	--	--
USH 45	235+63	55.41' RT	236+13	54.31' RT	771.21	770.20	--	--	50	--	0.064	--	--	--	--
USH 45	247+81.47	46.26' LT	247+07.5	48.24' LT	772.52	772.04	74	--	--	--	0.064	--	--	--	--
USH 45	251+06.84	52.83' RT	251+66.86	53.89' RT	770.93	769.51	60	--	--	--	0.064	--	--	--	--
USH 45	255+06.84	57.36' RT	255+70.75	60.51' RT	765.05	764.71	--	64	--	--	0.064	--	--	--	--
USH 45	262+19	59.26' RT	262+40.91	60.52' RT	754.80	754.25	--	--	22	--	0.064	--	--	--	--
USH 45	265+14	45.81' LT	265+81.45	53.31' LT	755.43	755.13	--	68	--	--	0.064	--	--	--	--
						TOTALS	684	224	388	195		160	514	180	84

1. STATION AND ELEVATIONS ARE TO THE END OF PIPE SECTION, NOT END OF APRON ENDWALL.

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	MISCELLANEOUS QUANTITIES	SHEET:	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

CULVERT PIPE SUMMARY

							521.1012	521.1015	521.1018	521.1024	521.1518	521.1524	522.1018 *	522.1024 *	522.1030 *
							APRON ENDWALLS FOR CULVERT PIPE								
							STEEL				SLOPED SIDE DRAINS STEEL		APRON ENDWALLS FOR		
	INLET		OUTLET		ELEVATIONS		12-INCH	15-INCH	18-INCH	24-INCH	18-INCH 6 TO 1	24-INCH 6 TO 1	18-INCH	24-INCH	30-INCH
LOCATION	STATION	OFFSET	STATION	OFFSET	INLET	OUTLET	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
USH 45	112+73	43.26' RT	112+73	47' LT	771.15	769.84	--	--	--	--	--	--	2	--	--
USH 45	112+77	43.26' RT	112+77	47' LT	771.15	769.84	--	--	--	--	--	--	2	--	--
USH 45	166+53	42.03' LT	166+53	42.87' RT	773.45	772.59	--	--	--	--	--	--	--	--	2
USH 45	166+47	42.05' LT	166+47	42.93' RT	773.45	772.59	--	--	--	--	--	--	--	--	2
USH 45	174+50	42.46' LT	174+50	42.03' RT	773.91	773.39	--	--	--	--	--	--	--	--	2
USH 45	216+50	40.52' LT	216+50	40.61' RT	778.82	778.67	--	--	--	--	--	--	--	--	2
USH 45	216+56.6	40.53' LT	216+56.6	40.6' RT	778.82	778.67	--	--	--	--	--	--	--	--	2
USH 45	216+43.4	40.5' LT	216+43.4	40.62' RT	778.82	778.67	--	--	--	--	--	--	--	--	2
USH 45	253+00	48.81' LT	253+00	52.18' RT	767.12	766.28	--	--	--	--	--	--	--	--	2
USH 45	262+85	42.86' LT	262+85	50.68' RT	754.37	753.16	--	--	--	--	--	--	--	2	--
USH 45	104+22.48	63.37' RT	103+78.49	64.39' RT	759.93	759.25	--	--	2	--	--	--	--	--	--
USH 45	110+57	55.11' LT	110+95	56.38' LT	770.53	770.08	2	--	--	--	--	--	--	--	--
USH 45	117+59	496.2' RT	117+59.73	520.09' RT	789.34	788.84	2	--	--	--	--	--	--	--	--
USH 45	120+67	44.33' LT	121+13	48.29' LT	777.25	776.86	2	--	--	--	--	--	--	--	--
CTH C	46+33.39	33.18' LT	45+85.27	34.44' LT	790.80	790.62	2	--	--	--	--	--	--	--	--
CTH C	47+46.73	31.32' LT	47+02.75	32.84' LT	791.32	791.14	2	--	--	--	--	--	--	--	--
CTH C	55+52.5	36.84' LT	55+86.5	37.31' LT	786.58	786.20	--	--	--	--	2	--	--	--	--
CTH C	55+72	50.69' RT	56+04.92	52.12' RT	784.59	784.09	--	--	--	2	--	--	--	--	--
CTH C	56+48	37.76' LT	56+98	37.22' LT	785.55	785.00	--	--	--	--	2	--	--	--	--
CTH C	56+93.87	48.98' RT	57+29.79	46.63' RT	783.63	783.45	--	--	--	2	--	--	--	--	--
CTH C	58+59.5	38.62' RT	58+95.21	34.05' RT	782.36	782.10	--	--	--	--	--	2	--	--	--
USH 45	143+20.12	52.43' RT	143+64.1	53.77' RT	787.93	787.71	2	--	--	--	--	--	--	--	--
USH 45	143+81.07	54.13' RT	144+17.07	54.62' RT	787.63	787.45	2	--	--	--	--	--	--	--	--
USH 45	148+23.29	43.61' LT	147+97.45	46.49' LT	789.65	789.30	2	--	--	--	--	--	--	--	--
USH 45	152+18.18	46.11' RT	151+58.37	52' RT	790.51	789.85	2	--	--	--	--	--	--	--	--
USH 45	157+10	50.18' RT	157+72	51.4' RT	788.78	788.00	--	--	2	--	--	--	--	--	--
USH 45	161+14.5	45.72' RT	161+80.5	46.43' RT	783.60	782.00	--	--	--	--	2	--	--	--	--
USH 45	164+02.49	48.8' RT	164+62.46	50.68' RT	777.35	776.10	--	--	--	--	2	--	--	--	--
CHURCH RD	46+89.5	32.84' LT	47+21.5	32.84' LT	781.70	781.30	2	--	--	--	--	--	--	--	--
SAVAGE RD	52+03	27.13' RT	51+73	27.93' RT	770.50	769.76	2	--	--	--	--	--	--	--	--
SAVAGE RD	52+31.06	21.36' LT	51+91.58	27.63' LT	772.10	771.29	2	--	--	--	--	--	--	--	--
SAVAGE RD	53+02.48	26.23' RT	52+64.5	25.25' RT	772.65	772.05	2	--	--	--	--	--	--	--	--
USH 45	198+81.44	42.25' LT	198+41.47	40.72' LT	772.65	772.43	--	--	--	--	--	2	--	--	--
USH 45	199+77.87	45.92' LT	199+27.91	44.01' LT	773.10	772.87	--	--	--	--	--	2	--	--	--
USH 45	211+81.5	48.07' RT	212+25.5	47.97' RT	780.95	780.76	2	--	--	--	--	--	--	--	--
CTH A	49+22	25.9' LT	49+22	40.26' RT	782.06	781.84	--	--	--	--	--	--	--	2	--
USH 45	227+66	51.64' RT	228+58	54.36' RT	781.20	780.73	--	2	--	--	--	--	--	--	--
USH 45	235+63	55.41' RT	236+13	54.31' RT	771.21	770.20	--	--	2	--	--	--	--	--	--
USH 45	247+81.47	46.26' LT	247+07.5	48.24' LT	772.52	772.04	2	--	--	--	--	--	--	--	--
USH 45	251+06.84	52.83' RT	251+66.86	53.89' RT	770.93	769.51	2	--	--	--	--	--	--	--	--
USH 45	255+06.84	57.36' RT	255+70.75	60.51' RT	765.05	764.71	--	2	--	--	--	--	--	--	--
USH 45	262+19	59.26' RT	262+40.91	60.52' RT	754.80	754.25	--	--	2	--	--	--	--	--	--
USH 45	265+14	45.81' LT	265+81.45	53.31' LT	755.43	755.13	--	2	--	--	--	--	--	--	--
						TOTALS	32	6	8	4	8	6	4	4	14

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

1. STATION AND ELEVATIONS ARE TO THE END OF PIPE SECTION, NOT END OF APRON ENDWALL.

* ADDITIONAL QUANTITY ELSEWHERE

STORM SEWER STRUCTURES

STRUCTURE	LOCATION	STATION	OFFSET	RIM ELEVATION	SUMP / INVERT ELEVATION	DEPTH FT	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1015 15-INCH EACH	522.1018 * 18-INCH EACH	522.1024 * 24-INCH EACH	522.1030 * 30-INCH EACH	523.0519 HORIZONTAL ELLIPTICAL 19x30-INCH EACH	611.0530 Manhole Covers Type J EACH	611.0612 * INLET COVERS TYPE C EACH	611.0624 TYPE H EACH	611.0627 TYPE HM EACH	611.0630 TYPE HM-GJ EACH	611.0642 TYPE MS EACH	611.0645 TYPE MS-A EACH	611.0652 TYPE T EACH	SPV.0060.08 TYPE H WITH CURB PLATE EACH
1.01	USH 45	100+00	44.8' LT	--	767.74	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
1.03	USH 45	100+00	23.5' LT	771.11	767.71	2.40	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
1.04	USH 45	100+00	23.5' RT	771.11	768.48	1.63	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
2.01	USH45	102+00	54.2' LT	--	761.66	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
2.02	USH45	102+00	37.7' LT	767.47	761.64	4.59	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
2.03	USH45	102+00	23.5' LT	766.67	761.81	3.86	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
2.04	USH45	102+00	23.5' RT	766.67	763.04	2.63	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
2.05	USH45	103+35	37.7' LT	766.02	762.15	2.63	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
2.06	USH45	103+35	23.5' LT	765.59	762.39	2.20	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
2.07	USH45	103+45	23.5' LT	765.59	762.90	1.69	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
2.08	USH45	103+35	23.5' RT	765.59	762.53	2.06	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
2.09	USH45	103+45	23.5' RT	765.59	763.14	1.45	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
3.01	USH45	106+50	58.7' LT	--	763.34	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
3.02	USH45	106+50	23.5' LT	770.17	764.03	5.14	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
3.03	USH45	106+50	14' LT	770.53	764.41	4.88	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
3.04	USH45	106+50	23.5' RT	770.17	765.77	3.40	--	--	--	--	--	--		--	--	1	--	--	--	--	--
3.05	USH45	108+75	14' LT	774.18	767.88	5.06	--	--	--	--	--	--	1	--	--		--	--	--	--	--
3.06	USH45	108+75	23.5' LT	773.82	768.92	3.90	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
3.07	USH45	108+75	23.5' RT	773.82	769.15	3.67	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
4.01	USH45	112+22.50	55.6' LT	--	768.50	--	--	--	--	1	--	--	--	--	--		--	--	--	--	--
4.02	USH45	112+22.50	23' LT	773.94	768.56	4.38	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
4.03	USH45	112+50	23' LT	773.96	769.70	3.26	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
4.04	USH45	112+22.50	23' RT	773.94	768.89	4.05	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
4.05	USH45	112+50	23' RT	773.96	770.03	2.93	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
5.01	USH45	114+00	52.2' LT	--	770.86	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
5.02	USH45	114+00	26.1' LT	774.91	770.86	3.05	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
5.03	USH45	114+00	29' RT	774.86	772.08	1.78	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
6.01	USH45	116+00	59.9' LT	--	772.83	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
6.02	USH45	116+00	34' LT	777.40	772.91	3.49	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
6.03	USH45	116+00	29.5' RT	777.49	773.20	3.29	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
6.04	USH45	117+15.50	57.7' RT	778.40	771.75	5.65	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
6.05	58THRD	51+25	13.5' RT	781.26	775.90	4.36	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
6.06	58THRD	53+00	13.5' RT	787.81	782.51	4.30	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
6.07	58THRD	50+52.93	19.4' LT	778.17	774.33	2.84	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
6.08	58THRD	51+25	13.5' LT	781.26	777.07	3.19	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
6.09	58THRD	53+00	13.5' LT	787.81	783.65	3.16	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
7.01	USH45	117+28.40	65.3' LT	--	773.51	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
7.02	USH45	118+00	35.5' LT	778.62	773.64	3.98	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
7.03	USH45	118+00	29.2' RT	778.75	773.94	3.81	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
8.1	USH 45	121+25	29.3' LT	--	776.73	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--

REMARKS

1. STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURES
2. RIM ELEVATIONS ARE GIVEN AT THE CENTER OF STRUCTURE FOR MANHOLES AND MEDIAN INLETS
3. RIM ELEVATIONS ARE GIVEN AT THE FACE OF CURB FOR STRUCTURES IN CURB AND GUTTER
4. DEPTH = RIM ELEVATION - SUMP ELEVATION - CASTING HEIGHT - ADJUSTMENT
5. CASTING HEIGHT = 8 7/8" FOR TYPE C; 6" FOR TYPE H AND HM; 2" FOR TYPE MS; 8 7/8" FOR TYPE J; 7" FOR TYPE T
6. ADJUSTMENT = 6" TYPICAL (NO ADJUSTMENT FOR INLETS COVERS TYPE MS)

CONTINUED ON NEXT PAGE

* ADDITIONAL QUANTITY ELSEWHERE

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

STORM SEWER STRUCTURES

							522.1012	522.1015	522.1018	522.1024	522.1030	523.0519	611.0530	611.0612 *	611.0624	611.0627	611.0630	611.0642	611.0645	611.0652	SPV.0060.08
							APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE							INLET COVERS							
STRUCTURE	LOCATION	STATION	OFFSET	RIM ELEVATION	SUMP / INVERT ELEVATION	DEPTH FT	12-INCH EACH	15-INCH EACH	* 18-INCH EACH	* 24-INCH EACH	* 30-INCH EACH	HORIZONTAL ELLIPTICAL 19x30-INCH EACH	Manhole Covers Type J EACH	TYPE C EACH	TYPE H EACH	TYPE HM EACH	TYPE HM-GJ EACH	TYPE MS EACH	TYPE MS-A EACH	TYPE T EACH	TYPE H WITH CURB PLATE EACH
8.2	USH 45	121+25	23.5' RT	780.84	776.79	3.05	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
8.2A	USH45	121+25	41' RT	779.30	777.06	2.07	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--
8.3	USH 45	124+00	42' LT	--	779.86	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
8.4	USH 45	124+00	25.6' RT	783.54	779.97	2.57	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
9.1	USH 45	127+00	45.9' LT	--	783.11	--	--	--	--	1	--	--	--	--	--	-	--	--	--	--	--
9.2	USH 45	127+00	11' LT	787.17	783.12	3.05	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
9.3	USH 45	127+00	1.3' RT	787.11	783.66	2.45	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
9.4	USH 45	127+00	25.7' RT	786.77	784.23	1.54	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
10.1	USH 45	130+00	57.2' LT	--	784.60	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
10.2	USH 45	130+00	17.7' LT	789.85	784.64	4.21	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
10.3	USH 45	130+00	6' LT	790.53	784.88	4.41	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
10.4	USH 45	130+00	5.8' RT	789.85	783.91	4.94	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
10.5	USH 45	130+00	26.3' RT	789.42	785.98	2.44	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
10.6	USH 45	131+28.42	5.1' LT	790.54	785.16	4.38	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
10.7	USH 45	132+06.37	12.5' RT	791.12	785.50	4.62	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
10.8	USH 45	132+50	12.1' RT	791.94	785.83	4.87	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
10.9	USH 45	132+50	17.9' RT	791.35	786.76	3.59	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
10.10	USH45	132+50	38.6' RT	790.69	786.97	2.72	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
10.11	USH45	132+50	6.3' RT	791.23	786.76	3.47	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
11.1	USH 45	134+29.84	23.9' LT	--	786.88	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
11.2	USH 45	134+25.11	5.3' RT	792.06	786.93	4.13	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
12.1	USH 45	135+40.31	34.2' LT	--	787.46	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
12.2	USH 45	135+46.97	4.4' RT	792.72	787.51	4.21	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
12.3	USH 45	135+49.53	28.8' RT	793.16	787.64	4.52	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
12.4	USH 45	135+50	35.8' RT	793.71	787.75	4.72	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
12.5	USH 45	135+94.23	37.2' RT	793.26	787.80	4.46	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
12.6	USH 45	136+19.26	35.6' RT	793.17	787.93	4.16	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
12.7	USH 45	136+60	50' RT	793.39	788.18	3.97	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
12.8	USH 45	137+20	33.8' RT	793.21	789.27	2.86	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
12.9	USH 45	135+50.53	42.8' RT	792.90	788.25	3.65	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
12.10	USH45	135+48.60	63.7' RT	792.52	788.41	3.11	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
12.11	USH45	136+60.06	74.1' RT	792.51	788.66	2.77	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
12.12	USH45	136+84.23	75.6' RT	792.56	788.90	2.58	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
13.1	CTH C	48+53.34	66.2' RT	--	788.06	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
13.2	CTH C	48+50.35	33.9' RT	792.93	788.06	3.87	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
13.3	CTH C	48+49.30	13' RT	793.29	788.23	4.06	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
13.4	CTH C	48+44	4.3' RT	793.33	788.34	3.99	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
13.5	CTH C	48+44	16.7' LT	792.97	788.50	3.47	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
13.6	USH45	136+70.20	50.4' LT	794.07	789.34	3.73	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
13.7	CTH C	45+92	27.2' LT	--	790.60	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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STORM SEWER STRUCTURES

STRUCTURE	LOCATION	STATION	OFFSET	RIM ELEVATION	SUMP / INVERT ELEVATION	DEPTH FT	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1015 15-INCH EACH	522.1018 * 18-INCH EACH	522.1024 * 24-INCH EACH	522.1030 * 30-INCH EACH	523.0519 HORIZONTAL ELLIPTICAL 19x30-INCH EACH	611.0530 Manhole Covers Type J EACH	611.0612 * INLET COVERS TYPE C EACH	611.0624 TYPE H EACH	611.0627 TYPE HM EACH	611.0630 TYPE HM-GJ EACH	611.0642 TYPE MS EACH	611.0645 TYPE MS-A EACH	611.0652 TYPE T EACH	SPV.0060.08 TYPE H WITH CURB PLATE EACH
13.8	CTH C	46+39.88	3.1' RT	793.85	790.78	2.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
13.9	CTH C	46+40.08	13.4' RT	793.83	790.94	1.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
14.1	CTH C	55+35.33	37.6' RT	--	785.01	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
14.2	CTH C	54+89	5.5' RT	788.98	785.08	2.90	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
14.3	CTH C	53+00.23	7.6' RT	790.81	785.85	3.72	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
14.4	CTH C	51+12.45	36.2' RT	792.87	786.62	5.01	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
14.5	USH45	136+77.34	100.9' RT	792.53	786.71	4.82	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
14.6	CTH C	51+14.81	44.8' RT	792.11	786.63	4.48	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
14.7	CTH C	51+17.22	66.5' RT	791.77	786.79	3.98	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
14.8	CTH C	51+19.56	2.7' RT	792.00	786.80	4.20	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
14.9	CTH C	53+00.58	15.2' RT	790.14	785.85	3.29	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
14.10	CTH C	52+99.68	36' RT	789.81	786.02	2.79	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
14.11	CTH C	52+99.93	0.4' RT	790.13	785.95	3.18	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
14.12	CTH C	52+29.24	10' LT	790.86	786.81	3.05	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
14.13	USH45	137+45	32.7' RT	793.21	788.45	3.76	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
14.14	USH45	137+58.34	28' RT	793.81	788.62	3.95	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
14.15	USH45	137+91.88	5.8' LT	792.70	789.98	1.72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
14.16	USH45	137+60.47	7.2' LT	792.89	789.29	2.60	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
14.17	USH45	137+59.06	16.1' RT	793.28	789.17	3.11	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
14.18	USH45	137+61.13	36.8' RT	793.03	789.17	2.86	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
14.19	USH45	137+68.39	59.8' RT	792.60	789.39	3.21	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
14.20	CTH C	52+32.81	10.7' RT	790.73	786.15	3.58	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
14.21	CTH C	54+95	1.5' LT	789.53	785.81	2.72	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
14.22	CTH C	52+28.0	17.0' LT	--	788.90	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15.1	USH45	140+65.72	38.6' RT	--	788.25	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
15.2	USH45	140+60	27.3' RT	791.42	788.29	2.13	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
15.3	USH45	140+50	27.3' RT	791.42	788.32	2.10	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
15.4	USH45	140+50.07	6.5' RT	791.76	788.60	2.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
15.5	USH45	140+49.93	4.5' LT	791.80	788.62	2.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
15.6	USH45	140+50	25.5' LT	791.87	788.89	1.98	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
15.7	USH45	140+50	37.3' LT	--	789.02	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
15.8	USH45	141+13.50	25.5' LT	791.55	789.08	1.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
16.1	USH45	145+50	48.4' RT	--	786.93	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
16.2	USH45	145+50	6.5' RT	792.37	786.83	4.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
16.3	USH45	142+24.92	6.5' RT	792.42	787.91	3.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
16.4	USH45	142+25	4.5' LT	792.46	788.03	3.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
16.5	USH45	142+25.04	25.5' LT	792.10	788.19	2.91	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
16.6	USH45	141+30	25.5' LT	791.62	788.67	1.95	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
16.7	USH45	142+24.62	27.5' RT	792.07	789.19	1.88	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
16.8	USH45	145+50	4.5' LT	792.36	787.99	3.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
16.9	USH45	145+50	25.5' LT	792.00	788.19	2.81	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--

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STORM SEWER STRUCTURES

STRUCTURE	LOCATION	STATION	OFFSET	RIM ELEVATION	SUMP / INVERT ELEVATION	DEPTH FT	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	522.1030 * APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	523.0519 HORIZONTAL ELLIPTICAL REINFORCED CONCRETE 19x30-INCH EACH	611.0530 Manhole Covers Type J EACH	611.0612 * INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0630 INLET COVERS TYPE HM-GJ EACH	611.0642 INLET COVERS TYPE MS EACH	611.0645 INLET COVERS TYPE MS-A EACH	611.0652 INLET COVERS TYPE T EACH	SPV.0060.08 INLET COVERS TYPE H WITH CURB PLATE EACH
17.1	USH45	147+94.85	41.2' RT	--	786.02	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
17.2	USH45	147+90	23.6' LT	791.57	786.11	4.46	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
17.3	USH45	147+24	24.5' LT	791.41	786.91	3.50	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
17.4	USH45	147+00	24.8' LT	791.41	787.38	3.03	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
17.5	USH45	147+11.31	3.7' LT	791.77	787.38	3.39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
17.6	USH45	147+90	46.1' LT	789.06	786.48	2.41	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--
17.7	USH45	147+11.39	5.4' RT	791.74	788.82	1.92	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
18.1	USH45	150+50	44.4' RT	--	788.61	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
18.2	USH45	150+50	23.5' LT	793.63	788.71	3.92	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
19.1	USH45	155+50	38.7' RT	--	789.66	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
19.2	USH45	155+50	23.5' LT	793.86	789.74	3.12	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
19.3	USH45	155+50	32' LT	793.26	787.99	5.10	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--
20.1	USH45	158+50	39.8' RT	--	787.01	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
20.2	USH45	158+50	23.5' LT	791.39	787.10	3.29	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
21.1	USH45	180+50	44.6' RT	--	774.65	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
21.2	USH45	180+50	28.3' LT	778.29	774.77	2.52	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
21.3	USH45	182+50	51.3' RT	--	771.54	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
21.4	USH45	182+50	35.5' LT	776.13	771.88	3.25	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
22.1	USH45	185+50	42.2' RT	--	768.04	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
22.2	USH45	185+50	35.5' LT	771.38	768.18	2.20	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
23.1	USH45	192+42.72	49.4' RT	--	762.96	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
23.2	USH45	192+75.62	42.8' RT	767.93	763.03	3.90	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
23.3	USH45	193+38.08	44.7' RT	768.89	763.31	4.58	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
23.3A	USH45	193+56.25	42.2' RT	768.34	764.30	3.87	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--
23.4	USH45	195+00	32.5' RT	772.58	766.79	4.55	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
23.5	USH45	196+94.93	45.6' RT	--	769.97	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
23.6	USH45	195+00	23.5' RT	771.1	767.73	2.37	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
24.1	USH45	227+50	45.5' RT	--	781.29	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
24.2	USH45	227+50	29.5' LT	786.00	781.67	3.33	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
25.1	CTH C	57+50.78	32.5' LT	--	784.49	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
25.2	CTH C	57+69.19	24.4' LT	786.10	784.01	1.92	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--
					TOTALS		2	1	10	12	2	4	6	6	44	40	4	3	2	4	12

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STORM SEWER STRUCTURES

	611.1005	611.1006	611.1230	611.2005	611.2006	611.3004 *	611.3225	611.3230	611.3901	650.4000
	CATCH BASINS			MANHOLES		INLETS				
STRUCTURE	5-FT DIAMETER EACH	6-FT DIAMETER EACH	2x3-FT EACH	5-FT DIAMETER EACH	6-FT DIAMETER EACH	4-FT DIAMETER EACH	2x2.5-FT EACH	2x3-FT EACH	Median 1 Grate EACH	Construction Staking Storm Sewer EACH
1.01	--	--	--	--	--	--	--	--	--	1
1.03	--	--	--	--	--	--	--	1	--	1
1.04	--	--	--	--	--	--	--	1	--	1
2.01	--	--	--	--	--	--	--	--	--	1
2.02	--	--	--	--	1	--	--	--	--	1
2.03	--	--	--	--	--	--	--	1	--	1
2.04	--	--	--	--	--	--	--	1	--	1
2.05	--	--	--	1	--	--	--	--	--	1
2.06	1	--	--	--	--	--	--	--	--	1
2.07	--	--	--	--	--	--	--	1	--	1
2.08	--	--	--	--	--	--	--	1	--	1
2.09	--	--	--	--	--	--	--	1	--	1
3.01	--	--	--	--	--	--	--	--	--	1
3.02	--	--	--	--	--	--	--	1	--	1
3.03	--	--	--	1	--	--	--	--	--	1
3.04	--	--	--	--	--	--	--	1	--	1
3.05	--	--	--	1	--	--	--	--	--	1
3.06	--	--	--	--	--	--	--	1	--	1
3.07	--	--	--	--	--	--	--	1	--	1
4.01	--	--	--	--	--	--	--	--	--	1
4.02	--	--	--	--	--	--	--	1	--	1
4.03	--	--	--	--	--	--	--	1	--	1
4.04	--	--	--	--	--	--	--	1	--	1
4.05	--	--	--	--	--	--	--	1	--	1
5.01	--	--	--	--	--	--	--	--	--	1
5.02	--	--	--	--	--	--	--	1	--	1
5.03	--	--	--	--	--	--	--	1	--	1
6.01	--	--	--	--	--	--	--	--	--	1
6.02	--	--	--	--	--	1	--	--	--	1
6.03	1	--	--	--	--	--	--	--	--	1
6.04	1	--	--	--	--	--	--	--	--	1
6.05	--	--	--	--	--	1	--	--	--	1
6.06	--	--	--	--	--	1	--	--	--	1
6.07	--	--	--	--	--	1	--	--	--	1
6.08	--	--	--	--	--	--	--	1	--	1
6.09	--	--	--	--	--	--	--	1	--	1
7.01	--	--	--	--	--	--	--	--	--	1
7.02	1	--	--	--	--	--	--	--	--	1
7.03	--	--	--	--	--	--	--	1	--	1
8.1	--	--	--	--	--	--	--	--	--	1

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STORM SEWER STRUCTURES

	611.1005	611.1006	611.1230	611.2005	611.2006	611.3004 *	611.3225	611.3230	611.3901	650.4000
	CATCH BASINS			MANHOLES		INLETS				
STRUCTURE	5-FT DIAMETER EACH	6-FT DIAMETER EACH	2x3-FT EACH	5-FT DIAMETER EACH	6-FT DIAMETER EACH	4-FT DIAMETER EACH	2x2.5-FT EACH	2x3-FT EACH	Median 1 Grate EACH	Construction Staking Storm Sewer EACH
8.2	--	--	--	--	--	--	--	1	--	1
8.2A	--	--	--	--	--	--	--	--	1	1
8.3	--	--	--	--	--	--	--	--	--	1
8.4	--	--	--	--	--	--	--	1	--	1
9.1	--	--	--	--	--	--	--	--	--	1
9.2	--	--	--	--	--	--	--	1	--	1
9.3	--	--	--	--	--	--	--	1	--	1
9.4	--	--	--	--	--	--	--	1	--	1
10.1	--	--	--	--	--	--	--	--	--	1
10.2	--	--	--	--	--	--	--	1	--	1
10.3	--	--	--	1	--	--	--	--	--	1
10.4	--	--	--	--	--	--	--	1	--	1
10.5	--	--	--	--	--	--	--	1	--	1
10.6	--	--	--	--	--	1	--	--	--	1
10.7	--	--	--	--	--	1	--	--	--	1
10.8	--	--	--	--	--	1	--	--	--	1
10.9	--	--	--	--	--	--	--	1	--	1
10.10	--	--	--	--	--	--	--	1	--	1
10.11	--	--	--	--	--	--	--	1	--	1
11.1	--	--	--	--	--	--	--	--	--	1
11.2	--	--	--	--	--	--	--	1	--	1
12.1	--	--	--	--	--	--	--	--	--	1
12.2	--	--	--	--	--	--	--	1	--	1
12.3	--	--	--	--	--	--	--	1	--	1
12.4	--	--	--	1	--	--	--	--	--	1
12.5	--	--	--	--	--	--	--	1	--	1
12.6	--	--	--	--	--	1	--	--	--	1
12.7	--	--	--	1	--	--	--	--	--	1
12.8	--	--	--	--	--	--	1	--	--	1
12.9	--	--	--	--	--	--	--	1	--	1
12.10	--	--	--	--	--	--	--	1	--	1
12.11	--	--	--	--	--	1	--	--	--	1
12.12	--	--	--	--	--	--	1	--	--	1
13.1	--	--	--	--	--	--	--	--	--	1
13.2	1	--	--	--	--	--	--	--	--	1
13.3	1	--	--	--	--	--	--	--	--	1
13.4	--	--	--	--	--	--	--	1	--	1
13.5	--	--	--	--	--	--	--	1	--	1
13.6	--	--	--	--	--	--	--	1	--	1
13.7	--	--	--	--	--	--	--	--	--	1

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* ADDITIONAL QUANTITY ELSEWHERE

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

STORM SEWER STRUCTURES

	611.1005	611.1006	611.1230	611.2005	611.2006	611.3004 *	611.3225	611.3230	611.3901	650.4000
	CATCH BASINS			MANHOLES		INLETS				
STRUCTURE	5-FT DIAMETER EACH	6-FT DIAMETER EACH	2x3-FT EACH	5-FT DIAMETER EACH	6-FT DIAMETER EACH	4-FT DIAMETER EACH	2x2.5-FT EACH	2x3-FT EACH	Median 1 Grate EACH	Construction Staking Storm Sewer EACH
13.8	--	--	--	--	--	1	--	--	--	1
13.9	--	--	--	--	--	--	--	1	--	1
14.1	--	--	--	--	--	--	--	--	--	1
14.2	1	--	--	--	--	--	--	--	--	1
14.3	--	--	--	1	--	--	--	--	--	1
14.4	--	1	--	--	--	--	--	--	--	1
14.5	1	--	--	--	--	--	--	--	--	1
14.6	--	--	--	--	--	--	--	1	--	1
14.7	--	--	--	--	--	--	--	1	--	1
14.8	--	--	--	--	--	--	--	1	--	1
14.9	--	--	--	--	--	--	--	1	--	1
14.10	--	--	--	--	--	--	--	1	--	1
14.11	--	--	--	--	--	--	--	1	--	1
14.12	--	--	--	--	--	--	--	1	--	1
14.13	--	--	--	--	--	1	--	--	--	1
14.14	--	--	--	1	--	--	--	--	--	1
14.15	--	--	1	--	--	--	--	--	--	1
14.16	--	--	--	--	--	--	--	1	--	1
14.17	--	--	--	--	--	--	--	1	--	1
14.18	--	--	--	--	--	--	--	1	--	1
14.19	--	--	--	--	--	--	--	1	--	1
14.20	1	--	--	--	--	--	--	--	--	1
14.21	--	--	--	--	--	--	--	1	--	1
14.22	--	--	--	--	--	--	--	--	--	1
15.1	--	--	--	--	--	--	--	--	--	1
15.2	1	--	--	--	--	--	--	--	--	1
15.3	1	--	--	--	--	--	--	--	--	1
15.4	1	--	--	--	--	--	--	--	--	1
15.5	--	--	1	--	--	--	--	--	--	1
15.6	--	--	--	--	--	--	--	1	--	1
15.7	--	--	--	--	--	--	--	--	--	1
15.8	--	--	--	--	--	--	--	1	--	1
16.1	--	--	--	--	--	--	--	--	--	1
16.2	1	--	--	--	--	--	--	--	--	1
16.3	1	--	--	--	--	--	--	--	--	1
16.4	--	--	--	--	--	--	--	1	--	1
16.5	--	--	--	--	--	--	--	1	--	1
16.6	--	--	--	--	--	--	--	1	--	1
16.7	--	--	--	--	--	--	--	1	--	1
16.8	--	--	--	--	--	--	--	1	--	1
16.9	--	--	--	--	--	--	--	1	--	1

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* ADDITIONAL QUANTITY ELSEWHERE

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

3

STORM SEWER STRUCTURES

	611.1005	611.1006	611.1230	611.2005	611.2006	611.3004 *	611.3225	611.3230	611.3901	650.4000
	CATCH BASINS			MANHOLES		INLETS				
STRUCTURE	5-FT DIAMETER EACH	6-FT DIAMETER EACH	2x3-FT EACH	5-FT DIAMETER EACH	6-FT DIAMETER EACH	4-FT DIAMETER EACH	2x2.5-FT EACH	2x3-FT EACH	Median 1 Grate EACH	Construction Staking Storm Sewer EACH
17.1	--	--	--	--	--	--	--	--	--	1
17.2	--	--	--	--	--	1	--	--	--	1
17.3	1	--	--	--	--	--	--	--	--	1
17.4	--	--	--	--	--	--	--	1	--	1
17.5	--	--	--	--	--	--	--	1	--	1
17.6	--	--	--	--	--	--	--	--	1	1
17.7	--	--	--	--	--	--	--	1	--	1
18.1	--	--	--	--	--	--	--	--	--	1
18.2	--	--	--	--	--	--	--	1	--	1
19.1	--	--	--	--	--	--	--	--	--	1
19.2	--	--	--	--	--	--	--	1	--	1
19.3	--	--	--	--	--	--	--	--	1	1
20.1	--	--	--	--	--	--	--	--	--	1
20.2	--	--	--	--	--	--	--	1	--	1
21.1	--	--	--	--	--	--	--	--	--	1
21.2	--	--	--	--	--	--	--	1	--	1
21.3	--	--	--	--	--	--	--	--	--	1
21.4	--	--	--	--	--	--	--	1	--	1
22.1	--	--	--	--	--	--	--	--	--	1
22.2	--	--	--	--	--	--	--	1	--	1
23.1	--	--	--	--	--	--	--	--	--	1
23.2	1	--	--	--	--	--	--	--	--	1
23.3	1	--	--	--	--	--	--	--	--	1
23.3A	--	--	--	--	--	--	--	--	1	1
23.4	--	--	--	1	--	--	--	--	--	1
23.5	--	--	--	--	--	--	--	--	--	1
23.6	--	--	--	--	--	--	--	1	--	1
24.1	--	--	--	--	--	--	--	--	--	1
24.2	--	--	--	--	--	--	--	1	--	1
25.1	--	--	--	--	--	--	--	--	--	1
25.2	--	--	--	--	--	--	--	--	1	1
TOTALS	17	1	2	9	1	12	2	72	5	152

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

* ADDITIONAL QUANTITY ELSEWHERE

STORM SEWER PIPE REINFORCED CONCRETE

FROM STR	TO STR	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE	608.0312 CLASS III 12-INCH LF	608.0315 CLASS III 15-INCH LF	608.0318 CLASS III 18-INCH LF	608.0324 CLASS III 24-INCH LF	608.0330 CLASS III 30-INCH LF	608.0412 CLASS IV 12-INCH LF	608.0415 CLASS IV 15-INCH LF	608.0418 * CLASS IV 18-INCH LF	608.0424 CLASS IV 24-INCH LF	608.0430 CLASS IV 30-INCH LF	608.0518 CLASS V 18-INCH LF	610.0119 HORIZONTAL ELLIPTICAL CLASS HE-III 19x30-INCH LF	610.0419 HORIZONTAL ELLIPTICAL CLASS HE-IV 19x30-INCH LF
1.03	1.01	767.81	767.74	0.31%	--	--	--	21	--	--	--	--	--	--	--	--	--
1.04	1.03	768.58	768.44	0.29%	--	--	--	--	--	47	--	--	--	--	--	--	--
2.02	2.01	761.74	761.66	0.50%	--	--	--	--	--	--	--	--	--	--	--	17	--
2.03	2.02	761.91	761.84	0.52%	--	--	--	14	--	--	--	--	--	--	--	--	--
2.04	2.03	763.14	762.91	0.49%	--	--	--	--	--	47	--	--	--	--	--	--	--
2.05	2.02	762.25	761.84	0.30%	--	--	--	--	--	--	--	--	--	--	--	135	--
2.06	2.05	762.49	762.35	1.02%	--	--	--	--	--	--	--	--	--	--	--	14	--
2.07	2.06	763.01	762.98	0.30%	10	--	--	--	--	--	--	--	--	--	--	--	--
2.08	2.06	762.63	762.49	0.29%	--	--	--	--	--	--	--	--	--	--	--	--	47
2.09	2.08	763.24	763.21	0.30%	10	--	--	--	--	--	--	--	--	--	--	--	--
3.02	3.01	764.13	763.34	2.25%	--	--	--	35	--	--	--	--	--	--	--	--	--
3.03	3.02	764.41	764.23	1.89%	--	--	--	9	--	--	--	--	--	--	--	--	--
3.04	3.03	765.87	765.41	1.23%	38	--	--	--	--	--	--	--	--	--	--	--	--
3.05	3.03	767.88	764.51	1.50%	--	--	--	225	--	--	--	--	--	--	--	--	--
3.06	3.05	769.02	768.88	1.42%	9	--	--	--	--	--	--	--	--	--	--	--	--
3.07	3.05	769.25	768.88	0.99%	37	--	--	--	--	--	--	--	--	--	--	--	--
4.02	4.01	768.66	768.50	0.50%	--	--	--	33	--	--	--	--	--	--	--	--	--
4.03	4.02	769.80	769.66	0.50%	28	--	--	--	--	--	--	--	--	--	--	--	--
4.04	4.02	768.99	768.76	0.50%	--	--	--	--	--	--	--	--	46	--	--	--	--
4.05	4.04	770.13	769.99	0.50%	28	--	--	--	--	--	--	--	--	--	--	--	--
5.02	5.01	770.96	770.86	0.40%	--	--	--	26	--	--	--	--	--	--	--	--	--
5.03	5.02	772.18	771.96	0.40%	--	--	--	--	--	55	--	--	--	--	--	--	--
6.02	6.01	772.91	772.83	0.31%	--	--	--	26	--	--	--	--	--	--	--	--	--
6.03	6.02	773.20	773.01	0.30%	--	--	--	--	--	--	--	--	63	--	--	--	--
6.04	6.03	773.75	773.30	0.38%	--	--	--	119	--	--	--	--	--	--	--	--	--
6.05	6.04	775.90	773.75	3.16%	--	--	--	68	--	--	--	--	--	--	--	--	--
6.06	6.05	782.61	775.90	3.83%	--	--	--	175	--	--	--	--	--	--	--	--	--
6.07	6.04	774.43	774.25	0.40%	--	--	--	--	--	--	--	45	--	--	--	--	--
6.08	6.05	777.17	776.90	1.00%	27	--	--	--	--	--	--	--	--	--	--	--	--
6.09	6.06	783.75	783.61	0.52%	27	--	--	--	--	--	--	--	--	--	--	--	--
7.02	7.01	773.74	773.51	0.30%	--	--	--	78	--	--	--	--	--	--	--	--	--
7.03	7.02	774.04	773.84	0.30%	--	--	--	--	--	--	--	--	65	--	--	--	--
8.2	8.1	776.89	776.73	0.30%	--	--	--	--	--	--	--	--	53	--	--	--	--
8.2A	8.2	777.06	777.00	0.30%	--	--	--	18	--	--	--	--	--	--	--	--	--
8.4	8.3	780.07	779.86	0.30%	--	--	--	--	--	--	--	68	--	--	--	--	--
9.2	9.1	783.22	783.11	0.30%	--	--	--	--	--	--	--	--	35	--	--	--	--
9.3	9.2	783.76	783.72	0.30%	--	--	12	--	--	--	--	--	--	--	--	--	--
9.4	9.3	784.33	784.26	0.30%	--	--	--	--	--	24	--	--	--	--	--	--	--
10.2	10.1	784.74	784.60	0.36%	--	--	--	--	--	--	--	--	39	--	--	--	--
10.3	10.2	784.88	784.84	0.30%	--	--	--	12	--	--	--	--	--	--	--	--	--

1. PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES
2. PIPE LENGTH FOR AEW IS MEASURED FROM CENTER OF STRUCTURE TO END OF PIPE SECTIONS, NOT END OF APRON ENDWALL.

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* ADDITIONAL QUANTITY ELSEWHERE

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

STORM SEWER PIPE REINFORCED CONCRETE

FROM STR	TO STR	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE	608.0312 CLASS III 12-INCH LF	608.0315 CLASS III 15-INCH LF	608.0318 CLASS III 18-INCH LF	608.0324 CLASS III 24-INCH LF	608.0330 CLASS III 30-INCH LF	608.0412 CLASS IV 12-INCH LF	608.0415 CLASS IV 15-INCH LF	608.0418 * CLASS IV 18-INCH LF	608.0424 CLASS IV 24-INCH LF	608.0430 CLASS IV 30-INCH LF	608.0518 CLASS V 18-INCH LF	610.0119 HORIZONTAL ELLIPTICAL CLASS HE-III 19x30-INCH LF	610.0419 HORIZONTAL ELLIPTICAL CLASS HE-IV 19x30-INCH LF
10.4	10.3	785.91	785.88	0.30%	--	--	--	--	--	12	--	--	--	--	--	--	--
10.5	10.4	786.08	786.01	0.30%	--	--	--	--	--	21	--	--	--	--	--	--	--
10.6	10.3	785.26	784.88	0.30%	--	--	--	128	--	--	--	--	--	--	--	--	--
10.7	10.6	785.60	785.36	0.30%	--	--	--	--	--	--	--	--	80	--	--	--	--
10.8	10.7	785.83	785.70	0.30%	--	--	--	--	--	--	--	--	44	--	--	--	--
10.9	10.8	786.86	786.84	0.50%	6	--	--	--	--	--	--	--	--	--	--	--	--
10.10	10.9	787.07	786.96	0.50%	--	--	--	--	--	21	--	--	--	--	--	--	--
10.11	10.8	786.86	786.84	0.50%	6	--	--	--	--	--	--	--	--	--	--	--	--
11.2	11.1	787.03	786.88	0.50%	--	--	--	--	--	--	--	30	--	--	--	--	--
12.2	12.1	787.51	787.46	0.13%	--	--	--	--	--	--	--	--	39	--	--	--	--
12.3	12.2	787.64	787.61	0.12%	--	--	--	--	--	--	--	--	25	--	--	--	--
12.4	12.3	787.75	787.74	0.12%	--	--	--	7	--	--	--	--	--	--	--	--	--
12.5	12.4	787.90	787.85	0.12%	--	--	--	44	--	--	--	--	--	--	--	--	--
12.6	12.5	788.03	788.00	0.12%	--	--	--	--	--	--	--	--	25	--	--	--	--
12.7	12.6	788.18	788.13	0.12%	--	--	--	--	--	--	--	--	43	--	--	--	--
12.8	12.7	789.37	789.18	0.30%	--	--	--	--	--	62	--	--	--	--	--	--	--
12.9	12.4	788.35	788.33	0.30%	--	--	7	--	--	--	--	--	--	--	--	--	--
12.10	12.9	788.51	788.45	0.30%	--	--	--	--	--	--	--	21	--	--	--	--	--
12.11	12.7	788.76	788.68	0.30%	--	--	--	--	--	--	--	24	--	--	--	--	--
12.12	12.11	789.00	788.86	0.59%	--	--	--	--	--	24	--	--	--	--	--	--	--
13.2	13.1	788.16	788.06	0.31%	--	--	--	--	--	--	--	--	--	--	--	32	--
13.3	13.2	788.33	788.26	0.29%	--	--	--	--	--	--	--	--	--	--	--	--	21
13.4	13.3	788.44	788.41	0.29%	--	--	10	--	--	--	--	--	--	--	--	--	--
13.5	13.4	788.60	788.54	0.29%	--	--	--	--	--	--	--	21	--	--	--	--	--
13.6	13.3	789.44	788.91	0.56%	--	--	--	--	--	94	--	--	--	--	--	--	--
13.8	13.7	790.88	790.60	0.50%	--	--	--	--	--	57	--	--	--	--	--	--	--
13.9	13.8	791.04	790.98	0.50%	10	--	--	--	--	--	--	--	--	--	--	--	--
14.2	14.1	785.18	785.01	0.31%	--	--	--	--	--	--	--	--	--	--	--	--	56
14.3	14.2	785.85	785.28	0.30%	--	--	--	--	--	--	--	--	--	--	--	--	189
14.4	14.2	786.62	786.25	0.30%	--	--	--	--	--	--	--	--	--	--	--	--	123
14.5	14.4	786.81	786.72	0.50%	--	--	--	18	--	--	--	--	--	--	--	--	--
14.6	14.4	786.72	786.70	0.30%	--	--	9	--	--	--	--	--	--	--	--	--	--
14.7	14.6	786.89	786.83	0.30%	--	--	--	--	--	--	--	22	--	--	--	--	--
14.8	14.4	786.80	786.70	0.30%	--	--	--	--	--	--	--	34	--	--	--	--	--
14.9	14.3	785.95	785.93	0.30%	--	--	--	--	--	--	--	8	--	--	--	--	--
14.10	14.9	786.12	786.05	0.30%	--	--	--	--	--	--	--	--	--	--	21	--	--
14.11	14.3	785.95	785.93	0.30%	--	--	--	--	--	--	--	7	--	--	--	--	--
14.12	14.20	786.81	786.44	1.74%	--	--	--	--	--	--	--	21	--	--	--	--	--
14.13	14.5	788.55	786.91	1.71%	--	--	--	--	--	--	--	--	96	--	--	--	--
14.14	14.13	788.62	788.55	0.51%	--	--	--	14	--	--	--	--	--	--	--	--	--

1. PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES
2. PIPE LENGTH FOR AEW IS MEASURED FROM CENTER OF STRUCTURE TO END OF PIPE SECTIONS, NOT END OF APRON ENDWALL.

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* ADDITIONAL QUANTITY ELSEWHERE

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

STORM SEWER PIPE REINFORCED CONCRETE

FROM STR	TO STR	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE	608.0312 CLASS III 12-INCH LF	608.0315 CLASS III 15-INCH LF	608.0318 CLASS III 18-INCH LF	608.0324 CLASS III 24-INCH LF	608.0330 CLASS III 30-INCH LF	608.0412 CLASS IV 12-INCH LF	608.0415 CLASS IV 15-INCH LF	608.0418 * CLASS IV 18-INCH LF	608.0424 CLASS IV 24-INCH LF	608.0430 CLASS IV 30-INCH LF	608.0518 CLASS V 18-INCH LF	610.0119 HORIZONTAL ELLIPTICAL CLASS HE-III 19x30-INCH LF	610.0419 HORIZONTAL ELLIPTICAL CLASS HE-IV 19x30-INCH LF
14.15	14.16	789.98	789.78	0.63%	--	--	--	--	--	31	--	--	--	--	--	--	--
14.16	14.17	789.29	789.17	0.52%	--	--	--	--	--	--	--	23	--	--	--	--	--
14.17	14.14	789.18	789.12	0.50%	--	--	12	--	--	--	--	--	--	--	--	--	--
14.18	14.14	789.17	789.12	0.50%	--	--	9	--	--	--	--	--	--	--	--	--	--
14.19	14.18	789.39	789.27	0.50%	--	--	--	--	--	--	--	24	--	--	--	--	--
14.20	14.3	786.15	785.95	0.30%	--	--	--	--	--	--	--	--	--	--	--	--	67
14.21	14.2	785.81	785.76	0.50%	--	--	--	--	--	9	--	--	--	--	--	--	--
14.22	14.12	788.90	788.42	6.86%	7	--	--	--	--	--	--	--	--	--	--	--	--
15.2	15.1	788.29	788.25	0.27%	--	--	--	--	--	--	--	--	--	--	--	13	--
15.3	15.2	788.44	788.39	0.49%	--	--	--	--	--	--	--	--	--	--	--	--	10
15.4	15.3	788.60	788.54	0.30%	--	--	--	--	--	--	--	--	--	--	--	--	21
15.5	15.4	788.72	788.69	0.30%	--	--	11	--	--	--	--	--	--	--	--	--	--
15.6	15.5	788.89	788.82	0.30%	--	--	--	--	--	--	--	21	--	--	--	--	--
15.7	15.6	789.02	788.99	0.31%	--	--	12	--	--	--	--	--	--	--	--	--	--
15.8	15.6	789.18	788.99	0.30%	--	--	--	--	--	63	--	--	--	--	--	--	--
16.2	16.1	786.93	786.79	0.34%	--	--	--	--	--	--	--	--	42	--	--	--	--
16.3	16.2	788.01	787.03	0.30%	--	--	--	325	--	--	--	--	--	--	--	--	--
16.4	16.3	788.13	788.11	0.15%	--	11	--	--	--	--	--	--	--	--	--	--	--
16.5	16.4	788.29	788.23	0.30%	--	--	--	--	--	--	21	--	--	--	--	--	--
16.6	16.5	788.67	788.39	0.30%	--	--	--	--	--	--	95	--	--	--	--	--	--
16.7	16.3	789.19	789.13	0.30%	--	--	--	--	--	21	--	--	--	--	--	--	--
16.8	16.2	788.09	788.03	0.55%	11	--	--	--	--	--	--	--	--	--	--	--	--
16.9	16.8	788.29	788.19	0.50%	--	--	--	--	--	21	--	--	--	--	--	--	--
17.2	17.1	786.21	786.02	0.30%	--	--	--	--	--	--	--	--	--	65	--	--	--
17.3	17.2	786.91	786.71	0.30%	--	--	--	--	--	--	--	66	--	--	--	--	--
17.4	17.3	787.48	787.41	0.30%	--	--	--	--	--	24	--	--	--	--	--	--	--
17.5	17.3	787.48	787.41	0.30%	--	--	--	--	--	24	--	--	--	--	--	--	--
17.6	17.2	786.48	786.31	0.76%	--	--	--	22	--	--	--	--	--	--	--	--	--
17.7	17.5	788.82	788.79	0.30%	9	--	--	--	--	--	--	--	--	--	--	--	--
18.2	18.1	788.81	788.61	0.30%	--	--	--	--	--	--	--	68	--	--	--	--	--
19.2	19.1	789.84	789.66	0.30%	--	--	--	--	--	--	--	62	--	--	--	--	--
19.3	19.2	789.99	789.94	0.50%	--	--	9	--	--	--	--	--	--	--	--	--	--
20.2	20.1	787.20	787.01	0.30%	--	--	--	--	--	--	--	63	--	--	--	--	--
21.2	21.1	774.87	774.65	0.30%	--	--	--	--	--	--	--	73	--	--	--	--	--
21.4	21.3	771.98	771.54	0.50%	--	--	--	--	--	--	--	87	--	--	--	--	--
22.2	22.1	768.28	768.04	0.30%	--	--	--	--	--	--	--	78	--	--	--	--	--
23.2	23.1	763.13	762.96	0.50%	--	--	--	--	34	--	--	--	--	--	--	--	--
23.3	23.2	763.41	763.22	0.29%	--	--	--	--	--	--	--	--	--	62	--	--	--
23.3A	23.3	764.30	763.91	2.16%	--	--	--	18	--	--	--	--	--	--	--	--	--
23.4	23.3A	766.79	764.40	1.65%	--	--	--	144	--	--	--	--	--	--	--	--	--
23.5	23.4	769.97	766.88	1.58%	--	--	--	195	--	--	--	--	--	--	--	--	--
23.6	23.4	767.83	767.78	0.50%	9	--	--	--	--	--	--	--	--	--	--	--	--
24.2	24.1	781.67	781.29	0.50%	--	--	--	--	--	--	--	75	--	--	--	--	--
25.1	25.2	784.49	784.30	0.96%	--	20	--	--	--	--	--	--	--	--	--	--	--
				TOTAL	272	31	91	1,774	34	657	116	941	695	127	21	211	534

1. PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES
2. PIPE LENGTH FOR AEW IS MEASURED FROM CENTER OF STRUCTURE TO END OF PIPE SECTIONS, NOT END OF APRON ENDWALL.

* ADDITIONAL QUANTITY ELSEWHERE

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

3

CULVERT MARKERS

LOCATION	633.5200 MARKER CULVERT END EACH
STAGE 1	28
STAGE 2	16
TOTAL	44

DRAIN TILE

LOCATION	203.0100 * REMOVING SMALL PIPE CULVERTS EACH	608.0418 * STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	611.0612 * INLET COVERS TYPE C EACH	611.3004 * INLETS 4-FT DIAMETER EACH	612.0206 * PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0208 PIPE UNDERDRAIN UNPERFORATED 8-INCH LF	612.0210 PIPE UNDERDRAIN UNPERFORATED 10-INCH LF	612.0700 DRAIN TILE EXPLORATION LF
STA 242+00	2	260	4	4	--	--	--	150
UNDISTRIBUTED	--	--	--	--	200	200	200	850
TOTAL	2	260	4	4	200	200	200	1,000

* ADDITIONAL QUANTITY ELSEWHERE

3

PIPE UNDERDRAIN

	310.0110 * BASE AGGREGATE OPEN-GRADED TON	612.0206 * PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	612.0406 * PIPE UNDERDRAIN WRAPPED 6- INCH LF	645.0111 GEOTEXTILE FABRIC TYPE DF SCHEDULE A SY	646.0805.S PAVEMENT MARKING OUTFALL EACH
BEGINNING OF PROJECT TO 58TH	--	200	--	--	134	--
58TH	8	60	2	80	40	2
58TH TO CTH C	29	140	5	279	94	5
CTH C	26	100	6	251	67	6
CTH C TO CHURCH RD	60	180	12	574	120	12
CHURCH RD	9	--	2	84	--	2
CHURCH RD TO 52ND	22	20	4	213	14	4
52ND	8	--	2	76	--	2
52ND TO SAVAGE RD	31	10	5	291	7	5
SAVAGE RD	--	20	--	--	14	--
SAVAGE RD TO CTH A	104	10	21	996	7	21
CTH A	23	--	5	219	--	5
CTH A TO END OF PROJECT	155	--	32	1,482	--	32
	476	740	96	4,545	497	96

* ADDITIONAL QUANTITY ELSEWHERE

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

EROSION CONTROL

STATION	TO	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	606.0500 GROUTED RIPRAP MEDIUM CY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EACH	628.2002 EROSION MAT CLASS I TYPE A SY	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.7005 INLET PROTECTION TYPE A EACH	628.7020 INLET PROTECTION TYPE D EACH	628.7504 TEMPORARY DITCH CHECKS LF
97+50.		117+40.	USH 45	101	10	8,721	5,172	816	816	7	4	667	2,882	--	22	105
117+40.		137+00.	USH 45	23	--	10,581	7,244	488	488	--	--	3,004	333	2	23	105
137+00.		175+00.	USH 45	46	--	26,686	21,949	464	464	--	--	3,848	889	2	27	315
175+00.		193+00.	USH 45	30	--	12,103	7,370	--	--	7	4	1,222	3,511	--	4	150
193+00.		223+00.	USH 45	21	--	25,501	19,357	1,425	1,425	--	--	5,478	667	1	2	345
223+00.		268+00.	USH 45	29	--	45,187	33,920	1,675	1,675	--	--	7,867	3,400	--	1	570
50+00.		55+50.	58TH RD	--	--	1,653	1,653	--	--	--	--	--	--	--	6	--
43+75.		49+00.	CTH C WEST	10	--	2,405	2,259	--	--	--	--	146	--	--	7	--
51+00.		59+50.	CTH C EAST	8	--	3,342	2,911	--	--	--	--	431	--	1	11	--
46+50.		50+00.	CHURCH RD	4	--	1,419	1,419	--	--	--	--	--	--	--	--	--
50+00.		53+35.	SAVAGE RD	--	--	942	942	--	--	--	--	--	--	--	--	--
47+00.		54+00.	CTH A	8	--	2,985	263	160	160	--	--	2,722	--	--	--	15
UNDISTRIBUTED				---	---	---	---	1,010	1,010	---	---	25,385	11,682	--		--
			TOTAL	281	10	141,526	104,459	6,038	6,038	14	8	50,770	23,364	6	103	1,605

EROSION CONTROL CONT.

STATION	TO	STATION	LOCATION	628.7515.S STONE OR DITCH CHECKS CY	628.7555 ROCK CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EA	629.0210 FERTILIZER TYPE B CWT	630.0110 SEEDING MIXTURE NO. 10 LB	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	645.0120 GEOTEXTILE TYPE HR SY	645.0130 ** GEOTEXTILE TYPE R SY	SPV.0085.01 SEEDING NO MOW FESCUE LB	SPV.0090.02 HEAVY DUTY SILT FENCE LF	SPV.0090.03 SILT FENCE 4 FT POST SPACING LF
97+50.		117+40.	USH 45	75	3	12	6	--	53	104	118	304	--	--	200	--
117+40.		137+00.	USH 45	30	2	--	7	--	178	12	143	75	--	23	--	--
137+00.		175+00.	USH 45	158	12	--	19	--	448	32	360	152	--	13	220	--
175+00.		193+00.	USH 45	42	--	6	8	217	91	126	163	81	533	--	996	--
193+00.		223+00.	USH 45	105	7	12	18	--	435	24	344	62	--	--	270	--
223+00.		268+00.	USH 45	63	12	42	32	301	691	122	610	78	533	--	605	260
50+00.		55+50.	58TH RD	--	--	--	1	--	30	--	22	--	--	--	--	--
43+75.		49+00.	CTH C WEST	11	2	--	2	--	43	--	32	33	--	7	--	--
51+00.		59+50.	CTH C EAST	11	--	--	2	--	60	--	45	18	--	19	--	--
46+50.		50+00.	CHURCH RD	--	--	--	1	--	26	--	19	--	--	--	--	--
50+00.		53+35.	SAVAGE RD	--	3	--	1	--	17	--	13	--	--	--	--	--
47+00.		54+00.	CTH A	--	--	--	2	--	54	--	40	--	--	--	300	--
UNDISTRIBUTED				--	--		--	--	--	--	--	--	--	--	--	---
			TOTAL	494	41	72	99	518	2,127	421	1,911	805	1,067	62	2,591	260

** QUANTITIES LISTED ELSEWHERE

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

3

FIELD OFFICE TYPE D

PROJECT ID	DESCRIPTION	642.5401 FIELD OFFICE TYPE D EACH
2430-06-70	USH 45 (COLONY AVENUE)	1
TOTAL		1

FIXED MESSAGE SIGN

SIGN NUMBER	** STAGE	* SIGN SIZE W X H (FT) X (FT)	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF
100***	1 & 2	5 X 5.5	28
101***	1 & 2	5 X 6	30
102***	1 & 2	5 X 6	30
103***	1 & 2	5 X 6	30
104***	1 & 2	5 X 6	30
105	1	3 X 6.5	19.50
106	1	3 X 6.5	19.50
107	1	3 X 6.5	19.50
108	1	3 X 6.5	19.50
109	1	3 X 6.5	19.50
110	2	3 X 6.5	19.50
111	2	3 X 6.5	19.50
112	2	3 X 6.5	19.50
113	1 & 2	3 X 6.5	19.50
	TOTALS		323.5

* FOR INFORMATION ONLY
** SIGNS 100-104, 113 TO BE REMOVED AFTER STAGE 1 AND REINSTALLED FOR STAGE 2.
***INCLUDES SUBSIGN

MOBILIZATION

PROJECT ID	DESCRIPTION	619.1000 MOBILIZATION EACH
2430-06-70	USH 45	1
TOTAL		1

3

TRAFFIC CONTROL

		643.0100 TRAFFIC CONTROL 2430-06-70	643.0420 TRAFFIC CONTROL BARRICADES TYPE III		643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A		643.0900 TRAFFIC CONTROL SIGNS		643.1050 TRAFFIC CONTROL SIGNS PCMS	643.3000 TRAFFIC CONTROL DETOUR SIGNS		643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I		643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II	
STAGE	DAYS	EACH	EACH	DAYS	EACH	DAYS	EACH	DAYS	DAYS	EACH	DAYS	EACH	CYCLES	EACH	CYCLES
STAGE 1 - USH 45	127	---	16	2,032	24	3,048	22	2,794	14	252	32,004	4	1	5	1
STAGE 2 - USH 45	172	---	14	2,408	22	3,784	19	3,268	14	249	42,828	4	1	5	1
UNDISTRIBUTED	---	1	---	444	---	684	---	607	3	---	7,484	---	---	---	---
	TOTALS	1		4,884		7,516		6,669	31		82,316	8	---	10	---

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

3

CONSTRUCTION STAKING

LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.5500 CURB, GUTTER, CURB & GUTTER LF	650.6500 STRUCTURE LAYOUT LS	650.7000 CONCRETE PAVEMENT LF	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF	SPV.0075.01 MISCELLANEOUS HRS
USH 45	17,065	17,065	16,547	--	600	---	17,065	---
58TH ROAD	550	550	999	---	---	---	550	---
CTH C	1,551	1,551	4,117	---	54	---	1,551	---
CHURCH RD	350	350	156	---	---	---	350	---
52ND ROAD	160	160	157	---	---	---	160	---
SAVAGE ROAD	335	335	271	---	---	---	335	---
CTH A	700	700	388	---	---	---	700	---
C-51-23	---	---	---	1	---	---	---	---
C-51-64	---	---	---	1	---	---	---	---
C-51-65	---	---	---	1	---	---	---	---
C-51-67	---	---	---	1	---	---	---	---
R-51-78	---	---	---	1	---	---	---	---
UNDISTRIBUTED	---	---	---	---	---	1	---	30
TOTAL	20,711	20,711	22,635	5	654	1	20,711	30

TIMBER FENCE

LOCATION	SPV.0090.01 TIMBER FENCE FOR MSE WALL LF
RETAINING WALL R-51-78	176
TOTAL 2430-06-00	176

FENCE SAFETY

STATION		STATION	LOCATION	OFFSET	616.0700.S FENCE SAFETY LF
186+17.	-	188+00.	USH 45	LT	183
47+00.	-	225+00.	CTH A/USH45	LT	379
		TOTAL			562

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

PAVEMENT MARKING

STATION	TO	STATION	LOCATION	646.0106 EPOXY WHITE LF	646.0106 EPOXY 4-INCH YELLOW LF	646.0156 EPOXY 18-INCH LF	647.0726 DIAGONAL EPOXY 12-INCH LF	647.0766 CROSSWALK EPOXY 6-INCH LF	647.0566 STOP LINE EPOXY 18-INCH LF	647.0356 WORDS EPOXY EACH	647.0166 ARROWS EPOXY TYPE 2 EACH	646.0842.S GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH WHITE LF	646.0844.S GROOVED CONTRAST WET REFLECTIVE EPOXY 8-INCH LF	647.0606 ISLAND NOSE EPOXY EACH	647.0456 CURB EPOXY LF	647.0856 CONCRETE CORRUGATED MEDIAN EPOXY SF	648.0100 LOCATING NO PASSING ZONES MI
97+75	-	104+00.	USH 45	---	1,250	---	---	---	---	---	---	1,250	---	---	---	---	---
104+00.	-	110+00.	USH 45	---	1,200	---	---	---	---	---	---	1,200	---	---	---	---	---
110+00.	-	116+00.	USH 45	---	1,200	---	---	---	---	2	1	1,251	311	---	---	---	---
116+00.	-	122+00.	USH 45	---	1,200	---	---	---	---	---	1	1,258	75	---	---	---	---
122+00.	-	128+00.	USH 45	---	2,020	---	100	---	---	---	---	1,200		1	590	---	---
128+00.	-	134+00.	USH 45	---	400	---	---	---	---	1	1	1,200	100	2	210	---	---
134+00.	-	140+00.	USH 45	---	---	39	---	176	---	2	---	502	105	---	---	---	---
140+00.	-	146+00.	USH 45	---	---	---	---	---	---	---	---	1,200	---	---	---	---	---
146+00.	-	152+00.	USH 45	---	1,820	---	100	---	---	---	---	1,200	---	1	25	480	---
152+00.	-	158+00.	USH 45	---	325	---	---	---	---	---	---	1,200	---	---	---	---	---
158+00.	-	164+00.	USH 45	---	588	---	---	---	---	---	---	1,200	---	---	---	---	---
164+00.	-	170+00.	USH 45	---	1,200	---	---	---	---	---	---	1,196	---	---	---	---	---
170+00.	-	176+00.	USH 45	---	1,200	---	---	---	---	2	2	1,137	461	---	---	---	---
176+00.	-	182+00.	USH 45	---	150	---	---	---	---	2	1	1,522	322	---	---	---	---
182+00.	-	188+00.	USH 45	---	150	---	---	---	---	---	1	1,235	85	---	---	---	---
188+00.	-	194+00.	USH 45	---	365	---	---	---	---	2	2	1,525	335	---	---	---	---
194+00.	-	200+00.	USH 45	---	1,200	---	---	---	---	---	---	1,216	---	---	---	---	---
200+00.	-	206+00.	USH 45	---	1,200	---	---	---	---	---	---	1,200	---	---	---	---	---
206+00.	-	212+00.	USH 45	---	1,200	---	---	---	---	---	---	1,200	---	---	---	---	---
212+00.	-	218+00.	USH 45	---	1,200	---				---	---	1,265	65	---	---	---	---
218+00.	-	224+00.	USH 45	---	1,200	---	---	---	---	---	---	1,331	471	---	---	---	---
224+00.	-	230+00.	USH 45	---	570	---	---	---	---	---	---	1,061	461	---	---	---	---
230+00.	-	236+00.	USH 45	---	395	---	---	---	---	---	---	1,247	47	---	---	---	---
236+00.	-	242+00.	USH 45	---	1,200	---	---	---	---	---	---	1,200	---	---	---	---	---
242+00.	-	248+00.	USH 45	---	1,060	---	---	---	---	---	---	1,200	---	---	---	---	---
248+00.	-	254+00.	USH 45	---	150	---	---	---	---	---	---	1,200	---	---	---	---	---
254+00.	-	260+00.	USH 45	---	150	---	---	---	---	---	---	1,200	---	---	---	---	---
260+00.	-	268+40.	USH 45	---	210	---	---	---	---	---	---	1,680	---	---	---	---	---
SIDEROADS																	
50+50.	-	57+25.	58TH ST	1,350	1,350	---	---	---	30	---	---	---	---	---	---	---	---
47+00.	-	49+50.	CTH C N	---	880	25	100	88	---	1	---	968	75	---	---	480	---
45+00.	-	54+50.	CTH C S	---	1,260	20	100	88	---	1	---	1,297	60	---	---	---	---
46+50.	-	50+00.	CHURCH RD	530	630	---	---	---	25	---	---	---	---	---	---	---	---
50+00.	-	51+60.	52ND ST	145	280	---	---	---	30	---	---	---	---	---	---	---	---
50+00.	-	53+35.	SAVAGE RD	390	740	---	---	---	30	---	---	---	---	---	---	---	---
47+00.	-	50+00.	CTH A N	---	540	---	---	---	36	---	---	450	35	---	---	---	---
50+00.	-	54+00.	CTH A S	---	730	---	---	---	36	---	---	650	35	---	---	---	---
			VARIOUS LOCATIONS		---	---	---	---	---	---	---	---	---	---	---	---	3.23
			TOTALS	31,628		84	400	352	187	13	9	37,641	3,043	4	825	960	3.23

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

SAWCUTS

DESCRIPTION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
BEGINNING OF PROJECT TO 58TH	140	17
58TH	30	32
58TH TO CTH C	123	---
CTH C	297	39
CTH C TO CHURCH RD	161	102
CHURCH RD	30	---
52ND	28	---
SAVAGE RD	88	---
SAVAGE RD TO CTH A	25	---
CTH A	60	---
CTH A TO END OF PROJECT	74	---
TOTAL	1,056	190

SECTION CORNER MONUMENTS

LOCATION	SPV.0060.07 EACH
STATION 117+41.54	1
STATION 143+80.17	1
STATION 170+24.22	1
STATION 196+66.90	1
STATION 223+00.09	1
STATION 249+36.92	1
TOTALS	6

NOTE: ALL ITEMS ON THIS SHEET ARE PAID UNDER CATEGORY 0010

REMOVING FLASHING BEACON AND POLE USH 45 2430-06-70

LOCATION	REMOVING FLASHING BEACON AND POLE EASTBOUND CTH A AT USH 45 EACH SPV.0060.03	REMOVING FLASHING BEACON AND POLE WESTBOUND CTH A AT USH 45 EACH SPV.0060.04
USH 45 AT CTH A		
EASTBOUND	1	
WESTBOUND		1
TOTAL	1	1

TRAFFIC FLASHING BEACON SYSTEM , SOLAR USH 45 2430-06-70

LOCATION	TRAFFIC FLASHING BEACON SYSTEM, SOLAR EASTBOUND CTH A AT USH 45 EACH SPV.0060.05	TRAFFIC FLASHING BEACON SYSTEM, SOLAR WESTBOUND CTH A AT USH 45 EACH SPV.0060.06
USH 45 AT CTH A		
EASTBOUND	1	
WESTBOUND		1
TOTAL	1	1

FILE NAME : N:\SPO\OPERATIONS\SIGNING\MISCELLANEOUS QUANTITIES\2430-06-70\030201_mq.pptx PLOT DATE : 7/27/2016 PLOT BY : DOTCMV PLOT NAME : 030201_mq.pdf PLOT SCALE : 1:1

3

3

CATEGORY 0010
LIGHTING SYSTEM ITEMS

650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (I.D. 2430-06-70)
654.0230 CONCRETE CONTROL CABINET BASES TYPE L30
655.0640 ELECTRICAL WIRE LIGHTING 1 AWG
656.0400 ELECTRICAL SERVICE MAIN LUGS ONLY METER PEDESTAL (STA. 134+50, 11' LT)
659.2230 LIGHTING CONTROL CABINETS 240/480 30 - INCH
SPV.0105.11 LIGHTING SYSTEM INTEGRATOR
SPV.0105.12 LIGHTING SYSTEM SURVEY

SYSTEM	LOCATION	650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (I.D. 2430-06-70)	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30	655.0640 ELECTRICAL WIRE LIGHTING 1 AWG	656.0400 ELECTRICAL SERVICE MAIN LUGS ONLY METER PEDESTAL (STA. 134+50, 11' LT)	659.2230 LIGHTING CONTROL CABINETS 240/480 30 - INCH	SPV.0105.11 LIGHTING SYSTEM INTEGRATOR	SPV.0105.12 LIGHTING SYSTEM SURVEY
		LS	EACH	LF	LS	EACH	LS	LS
HL-66-UG	134+50.07, 11.05' LEFT (SW QUADRANT)	1	1	18	1	1	1	1
	TOTAL (0010)	1	1	18	1	1	1	1

PLAQUE TEXT HL-51-UG
USH 45 / CTH 20
480 VAC WARNING DECAL (METER PEDESTAL AND CABINET DOOR)

CATEGORY 0010
LIGHTING PULL BOX QUANTITIES

653.0140 PULL BOXES STEEL 24 X 42-INCH
655.0615 ELECTRICAL WIRE LIGHTING 10 AWG (GROUNDING WIRE)

SYSTEM	LOCATION	LABEL	653.0140 PULL BOXES STEEL 24 X 42	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG	COMMENTS
			EACH	LF	
HL-51-UG	134+95.59, 9.59' LEFT	LPB101	1	45	USH 45
HL-51-UG	48+19.94, 41.47' RIGHT	LPB102	1	50	CTH C
HL-51-UG	48+19.94, 22.98' LEFT	LPB103	1	110	CTH C
HL-51-UG	134+97.96, 75.93' RIGHT	LPB104	1	40	USH 45
HL-51-UG	51+36.52, 78.76' RIGHT	LPB105	1	25	CTH C
HL-51-UG	51+36.52, 13.97' LEFT	LPB106	1	30	CTH C
	TOTAL (0010)		6	300	

SHEET 1 OF 4

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CATEGORY 0010
LIGHTING BRANCH CIRCUIT CONDUIT

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH

SYSTEM	LOCATION TO LOCATION	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
HL-51-UG	LIGHTING CONTROL CABINET (HL-51-UG) TO LPB 101	--	45
HL-51-UG	LPB101 TO POLE 135+64.79	75	--
HL-51-UG	POLE 135+64.79 TO POLE 48+56.00	110	--
HL-51-UG	POLE 48+56.00 TO LPB102	60	--
HL-51-UG	LPB102 TO POLE 46+62.00	145	--
HL-51-UG	POLE 46+62.00 TO POLE 45+12.00	155	--
HL-51-UG	POLE 45+12.00 TO STUBOUT WEST	15	--
HL-51-UG	LPB102 TO LPB103	--	70
HL-51-UG	LPB103 TO POLE 49+31.36	110	--
HL-51-UG	POLE 49+31.36 TO POLE 137+83.50	110	--
HL-51-UG	POLE 137+83.50 TO POLE 139+68.29	190	--
HL-51-UG	POLE 139+68.29 TO POLE 141+43.29	175	--
HL-51-UG	POLE 141+43.29 TO STUBOUT NORTH	15	--
HL-51-UG	LPB101 TO LPB104	--	85
HL-51-UG	LPB104 TO POLE135+35.87	40	--
HL-51-UG	LPB104 TO POLE 133+36.93	165	--
HL-51-UG	POLE 133+36.93 TO POLE 130+98.62	240	--
HL-51-UG	POLE 130+98.62 TO STUBOUT SOUTH	15	--
HL-51-UG	POLE 135+35.87 TO POLE 51+14.59	115	--
HL-51-UG	POLE 51+14.59 TO LPB105	25	--
HL-51-UG	LPB105 TO LPB106	--	95
HL-51-UG	LPB106 TO POLE 50+95.40	55	--
HL-51-UG	POLE 50+95.40 TO STUBOUT NORTH	15	--
HL-51-UG	LPB106 TO POLE 51+66.05	30	--
HL-51-UG	POLE 51+66.05 TO POLE 52+80.00	125	--
HL-51-UG	POLE 52+80.00 TO POLE 55+45.00	265	--
HL-51-UG	POLE 55+45.00 TO STUBOUT EAST	15	--
	TOTAL (0010)	**2,265**	**295**

CATEGORY 0010
LIGHT POLE QUANTITIES
240/480 VAC

654.0105 CONCRETE BASES TYPE 5
655.0610 ELECTRICAL WIRE LIGHTING 12 AWG
657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE
657.0322 POLES TYPE 5-ALUMINUM
657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT
657.0715 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT
659.1125 LUMINAIRES UTILITY LED C

SYSTEM	STATION	OFFSET	SEQUENCE I.D.	654.0105 CONCRETE BASES TYPE 5 EACH	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	657.0715 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
HL-51-UG	135+64.79	21.78' RIGHT	AUG1	1	144	1	1	--	1	1
HL-51-UG	48+68.69	52.95' RIGHT	BUG1	1	144	1	1	--	1	1
HL-51-UG	47+18.99	44.37' RIGHT	AUG2	1	117	1	1	1	--	1
HL-51-UG	45+69.23	35.94' RIGHT	BUG2	1	117	1	1	1	--	1
HL-51-UG	49+31.36	34.37' LEFT	AUG3	1	144	1	1	--	1	1
HL-51-UG	137+83.50	21.31' LEFT	BUG3	1	144	1	1	--	1	1
HL-51-UG	139+68.29	30.79' LEFT	AUG4	1	117	1	1	1	--	1
HL-51-UG	141+43.29	31.50' LEFT	BUG4	1	117	1	1	1	--	1
HL-51-UG	135+35.87	81.67' RIGHT	CUG1	1	144	1	1	--	1	1
HL-51-UG	51+14.59	84.03' RIGHT	DUG1	1	144	1	1	--	1	1
HL-51-UG	133+36.93	61.09' RIGHT	DUG2	1	117	1	1	1	--	1
HL-51-UG	130+98.62	32.66' RIGHT	CUG2	1	117	1	1	1	--	1
HL-51-UG	51+66.05	18.41' LEFT	CUG3	1	144	1	1	--	1	1
HL-51-UG	50+95.40	54.85' LEFT	DUG3	1	144	1	1	--	1	1
HL-51-UG	52+80.00	21.50' LEFT	CUG4	1	117	1	1	1	--	1
HL-51-UG	55+45.00	28.50' LEFT	DUG4	1	117	1	1	1	--	1
TOTAL (0010)				**16**	**2,088**	**16**	**16**	**8**	**8**	**16**

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CATEGORY 0010
LIGHTING WIRE QUANTITIES
120/240 VAC 3-WIRE ISOLATED NEUTRAL SYSTEM

655.0620 ELECTRICAL WIRE LIGHTING 8 AWG

SYSTEM	NETWORK	LOCATION TO LOCATION	DISTANCE	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF
HL-51-UG	A/B/N/G	LIGHT CONTROL CABINET (HL-51-UG) TO LPB 101 TO POLE 135+64.79	120	540
HL-51-UG	A/B/N/G	POLE 135+64.79 TO POLE 48+56.00	110	480
HL-51-UG	A/B/N/G	POLE 48+56.00 TO LPB102 TO POLE 46+62.00	205	900
HL-51-UG	A/B/N/G	POLE 46+62.00 TO POLE 45+12.00	155	495
HL-51-UG	A/B/N/G	POLE 48+56.00 TO LPB102 TO LPB103 TO POLE 49+31.36	220	1000
HL-51-UG	A/B/N/G	POLE 49+31.36 TO POLE 137+83.50	110	480
HL-51-UG	A/B/N/G	POLE 137+83.5 TO POLE 139+68.29	190	800
HL-51-UG	A/B/N/G	POLE 139+67.29 TO POLE 141+43.29	175	555
HL-51-UG	C/D/N/G	LIGHTING CONTROL CABINET (HL-51-UG) TO LPB101 TO LPB104 TO POLE 135+35.87	170	800
HL-51-UG	C/D/N/G	POLE 135+35.87 TO LPB104 TO POLE 133+36.93	205	900
HL-51-UG	C/D/N/G	POLE 133+36.93 TO POLE 130+98.62	240	750
HL-51-UG	C/D/N/G	POLE 135+35.87 TO POLE 51+14.59	115	500
HL-51-UG	C/D/N/G	POLE 51+14.59 TO LPB105 TO LPB106 TO POLE 51+66.05	150	720
HL-51-UG	C/D/N/G	POLE 51+66.05 TO LPB106 TO POLE 50+95.40	85	315
HL-51-UG	C/D/N/G	POLE 51+66.05 TO POLE 52+80.00	125	540
HL-51-UG	C/D/N/G	POLE 52+80.00 TO POLE 55+45.00	265	825
		TOTAL (0010)		**10,600**

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REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
CB1	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
SB11	1
SB12	1
TOTAL	11

REMOVE PULL BOXES

PULL BOX NO.	653.0905 REMOVING PULL BOXES EACH
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
TOTAL	10

REMOVE TRAFFIC SIGNALS

LOCATION	SPV.0105.02 REMOVE TRAFFIC SIGNALS L.S.
USH 45 & CTH C	1
TOTAL	1

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	SPV.0105.03 REMOVE LOOP DETECTOR WIRE & LEAD-IN CABLE L.S.
USH 45 & CTH C	1
TOTAL	1

SHEET: 1 OF 1

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 TUBULAR STEEL POSTS 2"X2"X14' [EA]	634.0816 TUBULAR STEEL POSTS 2"X2"X16' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	638.2101 MOVING SIGNS TYPE I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
1	*NOT USED*	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	I2-3	UNION GROVE - POP 4915	78 x 24	13.000	--	1	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	R7-1D(2S)	--	18 x 24	3.000	--	1	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	S4-51(2S)	20 MPH	24 x 48	8.000	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	R2-1(3)	30 MPH	36 x 48	12.000	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	R7-1D(2S)	--	18 x 24	3.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7	S1-1(2S)	--	36 x 36	--	6.750	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8	S16-9P(2S)	--	30 x 18	--	3.750	--	--	--	--	--	--	--	7	--	--	--	--	--	--	--	--	--	--	--
9	R2-6P(2S)	--	24 x 18	3.000	--	--	--	--	--	--	--	--	7	--	--	--	--	--	--	--	--	--	--	--
10	R7-1D(2S)	--	18 x 24	3.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	R2-1(2S)	45 MPH	24 x 30	5.000	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12	S5-2(2S)	--	24 x 30	5.000	--	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--	--	--	--	--
13	J4-1(2S)	--	24 x 36	6.000	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M3-1	--	24 x 12																					
	M1-4	USH 45	24 x 24																					
14	R7-1D(2S)	--	18 x 24	3.000	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	D2-2	MUSKEGO 13 MILWAUKEE 24	84 x 24	14.000	--	1	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	R7-1D(2S)	--	18 x 24	3.000	--	1	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	R7-1L(2S)	--	18 x 24	3.000	--	1	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	R59-51(3)	--	48 x 48	16.000	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19	R7-1R(2S)	--	18 x 24	3.000	--	--	--	--	--	--	--	--	18	ANGLE SIGN	--	--	--	--	--	--	--	--	--	--
20	W3-5(2S)	30 MPH	36 x 36	--	9.000	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21	R2-1(2S)	45 MPH	24 x 30	5.000	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22	W1-7(2S)	--	48 x 24	--	8.000	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	R2-1	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24	W6-1(2S)	--	36 x 36	--	9.000	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
25	R2-1	--	-- x --	--	--	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
26	--	CLASS B HIGHWAY	-- x --	--	--	--	--	--	--	--	--	1	25	--	--	--	--	--	--	--	--	--	--	--
27	R1-1(2S)	--	30 x 30	5.180	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28	R2-1(2S)	45 MPH	24 x 30	5.000	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	W6-3(2S)	--	36 x 36	--	9.000	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30	R5-1(3)	--	36 x 36	9.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31	R2-1	--	-- x --	--	--	1	1	--	--	--	--	--	--	ALSO REMOVE SIGNAL AHEAD SIGN	--	--	--	--	--	--	--	--	--	--
32	R3-4(2S)	--	24 x 24	4.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
33	J1-1	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
34	W2-6(2S)	--	30 x 30	--	6.250	--	--	--	--	1	--	--	--	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--	--
35	W13-1(2S)	15 MPH	18 x 18	--	2.250	--	--	--	--	--	--	--	34	--	--	--	--	--	--	--	--	--	--	--
36	R4-7(3)	--	36 x 48	12.000	--	--	--	--	--	--	--	--	32	BACK OF SIGN #32	--	--	--	--	--	--	--	--	--	--
37	W5-54(2S)	--	18 x 18	--	2.250	--	--	--	--	--	--	--	36	--	--	--	--	--	--	--	--	--	--	--
38	W3-3	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
39	J1-1(2S)	--	24 x 39	6.500	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M2-1	--	21 x 15																					
	M1-5A	CTH C	24 x 24																					
40	D1-62	NORTH [45] WEST EAST [C] [A] [C]	108 x 84	63.000	--	--	--	--	3	--	--	--	--	12 FT OFFSET	--	--	--	--	--	--	--	--	--	--
41	R5-1A(2S)	--	36 x 24	6.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
42	R5-1A(3)	--	42 x 30	8.750	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
43	W6-2(2S)	--	36 x 36	--	9.000	--	--	--	--	--	--	--	42	BACK OF SIGN #42	--	--	--	--	--	--	--	--	--	--
44	R2-1(2S)	45 MPH	24 x 30	5.000	--	1	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
45	R4-7(2S)	--	24 x 30	5.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 TUBULAR STEEL POSTS 2"X2"X14' [EA]	634.0816 TUBULAR STEEL POSTS 2"X2"X16' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	638.2101 MOVING SIGNS TYPE I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
46	W3-3	--	-- x --	--	--	1	1	--	--	--	--	--	--	ALSO REMOVE ROUTE MARKER	--	--	--	--	--	--	--	--	--
47	W3-3	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
48	D1-3	SOUTHERN [A] WIS CENTER ELLSWORTH CORRECTIONAL [A] SOUTHERN OAKS	102 x 66	46.750	--	1	2	--	--	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--
49	R4-7(2S)	--	24 x 30	5.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
50	R5-1(2S)	--	30 x 30	6.250	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
51	W3-2(2S)	--	36 x 36	--	9.000	--	--	--	--	--	--	--	50	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--	--
52	J4-1(2S) M3-3 M1-4	-- -- USH 45	24 x 36 24 x 12 24 x 24	6.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
53	I55-56	--	-- x --	--	--	--	1	1	--	--	--	1	--	MOVE TO STA 132+85 LT	--	--	--	--	--	--	--	--	--	--
54	D1-2	[45] SOUTH [A] COLONY AVE	78 x 30	16.250	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
55	R1-1	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
56	W11-2(2S)	--	30 x 30	--	6.250	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
57	W16-7L(2S)	--	24 x 12	--	2.000	--	--	--	--	--	--	--	56	--	--	--	--	--	--	--	--	--	--	--
58	R1-2(2S)	--	36 x 31	3.880	--	--	--	--	--	1	--	--	--	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--	--
59	R1-54(2S)	--	24 x 15	2.500	--	--	--	--	--	--	--	--	58	--	--	--	--	--	--	--	--	--	--	--
60	R6-1R(2S)	--	36 x 12	3.000	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
61	R6-4B(2S)	--	60 x 24	10.000	--	--	--	--	--	--	--	--	60	4 FT MOUNT HEIGHT	--	--	--	--	--	--	--	--	--	--
62	R6-1R(2S)	--	36 x 12	3.000	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
63	R6-4B(2S)	--	60 x 24	10.000	--	--	--	--	--	--	--	--	62	4 FT MOUNT HEIGHT	--	--	--	--	--	--	--	--	--	--
64	R6-1R(2S)	--	36 x 12	3.000	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
65	R6-4B(2S)	--	60 x 24	10.000	--	--	--	--	--	--	--	--	64	4 FT MOUNT HEIGHT	--	--	--	--	--	--	--	--	--	--
66	R6-1R(2S)	--	36 x 12	3.000	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
67	R6-4B(2S)	--	60 x 24	10.000	--	--	--	--	--	--	--	--	66	4 FT MOUNT HEIGHT	--	--	--	--	--	--	--	--	--	--
68	R1-2(2S)	--	36 x 31	3.880	--	--	--	--	--	1	--	--	--	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--	--
69	R6-2R(2S)	--	24 x 30	5.000	--	--	--	--	--	--	--	--	68	--	--	--	--	--	--	--	--	--	--	--
70	D1-2	[C] WEST [A] SPRING ST	72 x 30	15.000	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
71	R1-1F	--	-- x --	--	--	1	--	--	--	--	--	--	--	REMOVE FROM SIGNAL POLE	--	--	--	--	--	--	--	--	--	--
72	R1-1F	--	-- x --	--	--	1	--	--	--	--	--	--	--	REMOVE FROM SIGNAL POLE	--	--	--	--	--	--	--	--	--	--
73	J3-2	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
74	R1-2(2S)	--	36 x 31	3.880	--	--	--	--	--	1	--	--	--	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--	--
75	R1-54(2S)	--	24 x 15	2.500	--	--	--	--	--	--	--	--	74	--	--	--	--	--	--	--	--	--	--	--
76	R1-2(2S)	--	36 x 31	3.880	--	--	--	--	--	1	--	--	--	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--	--
77	R6-2R(2S)	--	24 x 30	5.000	--	--	--	--	--	--	--	--	76	--	--	--	--	--	--	--	--	--	--	--
78	W11-2(2S)	--	30 x 30	--	6.250	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
79	W16-7L(2S)	--	24 x 12	--	2.000	--	--	--	--	--	--	--	78	--	--	--	--	--	--	--	--	--	--	--
80	D1-2	[45] NORTH [A] COLONY AVE	78 x 30	16.250	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
81	R1-2(2S)	--	36 x 31	3.880	--	--	--	--	--	1	--	--	--	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--	--
82	R1-54(2S)	--	24 x 15	2.500	--	--	--	--	--	--	--	--	81	--	--	--	--	--	--	--	--	--	--	--
83	W11-2(2S)	--	30 x 30	--	6.250	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
84	W16-7L(2S)	--	24 x 12	--	2.000	--	--	--	--	--	--	--	83	--	--	--	--	--	--	--	--	--	--	--
85	R1-2(2S)	--	36 x 31	3.880	--	--	--	--	--	1	--	--	--	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--	--
86	R6-2R(2S)	--	24 x 30	5.000	--	--	--	--	--	--	--	--	85	--	--	--	--	--	--	--	--	--	--	--
87	R1-1	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
88	R5-1	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 TUBULAR STEEL POSTS 2"X2"X14' [EA]	634.0816 TUBULAR STEEL POSTS 2"X2"X16' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	638.2101 MOVING SIGNS TYPE I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
89	D1-2	[C] EAST [A] SPRING ST	72 x 30	15.000	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
90	R1-1F	--	-- x --	--	--	1	--	--	--	--	--	--	--	REMOVE FROM SIGNAL POLE	--	--	--	--	--	--	--	--	--
91	R1-1F	--	-- x --	--	--	1	--	--	--	--	--	--	--	REMOVE FROM SIGNAL POLE	--	--	--	--	--	--	--	--	--
92	J3-2	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
93	R1-2(2S)	--	36 x 31	3.880	--	--	--	--	--	1	--	--	--	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--
94	R1-54(2S)	--	24 x 15	2.500	--	--	--	--	--	--	--	--	93	--	--	--	--	--	--	--	--	--	--
95	R1-2(2S)	--	36 x 31	3.880	--	--	--	--	--	1	--	--	--	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--
96	R6-2R(2S)	--	24 x 30	5.000	--	--	--	--	--	--	--	--	95	--	--	--	--	--	--	--	--	--	--
97	W11-2(2S)	--	30 x 30	--	6.250	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
98	W16-7L(2S)	--	24 x 12	--	2.000	--	--	--	--	--	--	--	97	--	--	--	--	--	--	--	--	--	--
99	R6-2R(2S)	--	24 x 30	5.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
100	J2-2	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
101	R6-2R(2S)	--	24 x 30	5.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
102	R6-2R(2S)	--	24 x 30	5.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
103	J4-1(2S) M3-1 M1-4	-- -- USH 45	24 x 36 24 x 12 24 x 24	6.000	--	1	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
104	I55-56	--	-- x --	--	--	--	1	--	--	1	--	1	--	--	--	--	--	--	--	--	--	--	--
105	R6-2R(2S)	--	24 x 30	5.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
106	R3-4(2S)	--	24 x 24	4.000	--	--	--	--	--	--	--	--	107	BACK OF SIGN #107	--	--	--	--	--	--	--	--	--
107	R4-7(3)	--	36 x 48	12.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
108	W5-54(2S)	--	18 x 18	--	2.250	--	--	--	--	--	--	--	107	--	--	--	--	--	--	--	--	--	--
109	D1-3	SOUTHERN WIS CENTER [A] ELLSWORTH CORRECTIONAL SOUTHERN OAKS [A]	102 x 66	46.750	--	--	--	--	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--
110	J2-2	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
111	W3-2(2S)	--	36 x 36	--	9.000	--	--	1	--	--	--	--	--	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--
112	W3-3	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
113	R2-1	--	-- x --	--	--	1	1	--	--	--	--	--	--	ALSO REMOVE SIGNAL AHEAD SIGN	--	--	--	--	--	--	--	--	--
114	R2-1(2S)	45 MPH	24 x 30	5.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
115	R5-1A(3)	--	42 x 30	8.750	--	--	--	--	--	--	--	--	114	BACK OF SIGN #114	--	--	--	--	--	--	--	--	--
116	D1-62	SOUTH [45] EAST WEST [C] [A] [C]	108 x 84	63.000	--	--	--	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
117	J1-1	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
118	--	SOUTHERN VETERANS...	-- x --	--	--	--	2	--	--	2	--	1	--	PERMIT SIGN - DO NOT REPLACE	--	--	--	--	--	--	--	--	--
119	W2-6(2S)	--	30 x 30	--	6.250	--	--	--	--	1	--	--	--	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--
120	W13-1(2S)	15 MPH	18 x 18	--	2.250	--	--	--	--	--	--	--	119	--	--	--	--	--	--	--	--	--	--
121	W12-1R(2S)	--	24 x 24	--	4.000	--	--	--	--	1	--	--	--	2 FT MOUNT HEIGHT	--	--	--	--	--	--	--	--	--
122	W3-3	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
123	R5-1(3)	--	36 x 36	9.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
124	J1-1(2S) M2-1 M1-5A	-- -- CTH C	24 x 39 21 x 15 24 x 24	6.500	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
125	R2-1(3)	45 MPH	36 x 48	12.000	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
126	R2-1(2S)	55 MPH	24 x 30	5.000	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
127	W54-57(2S)	--	30 x 30	--	6.250	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
128	W3-5(2S)	45 MPH	36 x 36	--	9.000	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
129	R1-1(2S)	--	30 x 30	5.180	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 TUBULAR STEEL POSTS 2"X2"X14' [EA]	634.0816 TUBULAR STEEL POSTS 2"X2"X16' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	638.2101 MOVING SIGNS TYPE I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
130	W14-3(2S)	--	48 x 36	--	6.000	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
131	W1-7(2S)	--	48 x 24	--	8.000	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
132	W54-57(2S)	--	30 x 30	--	6.250	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
133	W2-2(2S)	--	30 x 30	--	6.250	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
134	W2-2(2S)	--	30 x 30	--	6.250	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135	W1-7(2S)	--	48 x 24	--	8.000	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
136	R1-1(2S)	--	30 x 30	5.180	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
137	W14-3(2S)	--	48 x 36	--	6.000	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
138	R1-1(2S)	--	30 x 30	5.180	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
139	J1-1(2S)	--	24 x 39	6.500	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M2-1	--	21 x 15																					
	M1-5A	CTH A	24 x 24																					
140	J2-2	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
141	W14-3(2S)	--	48 x 36	--	6.000	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
142	R2-1(2S)	55 MPH	24 x 30	5.000	--	1	--	--	--	--	--	--	141	BACK OF SIGN #141	--	--	--	--	--	--	--	--	--	--
143	J4-1(2S)	--	24 x 36	6.000	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M3-3	--	24 x 12																					
	M1-4	USH 45	24 x 24																					
144	J3-2(2S)	--	48 x 57	19.000	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M3-4	--	24 x 12																					
	M1-5A	CTH A	24 x 24																					
	M6-1	--	21 x 21																					
	M3-2	--	24 x 12																					
	M1-5A	CTH A	24 x 24																					
	M6-1	--	21 x 21																					
145	J1-1(2S)	--	24 x 39	6.500	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M2-1	--	21 x 15																					
	M1-4	USH 45	24 x 24																					
146	R1-1(3)	--	36 x 36	7.460	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
147	W4-4C(3)	TRAFFIC ON 45 DOES NOT STOP	36 x 18	--	4.500	--	--	--	--	--	--	--	146	--	--	--	--	--	--	--	--	--	--	--
148	J13-1(2S)	--	24 x 45	7.500	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M1-4	USH 45	24 x 24																					
	M6-4	--	21 x 21																					
149	R5-1(2S)	--	30 x 30	6.250	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
150	J4-1(2S)	--	24 x 36	6.000	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M3-4	--	24 x 12																					
	M1-5A	CTH A	24 x 24																					
151	R1-1(3)	--	36 x 36	7.460	--	1	1	--	--	--	--	--	--	MOUNT ON NEW SIGNAL POLE	--	--	--	--	--	--	--	--	--	--	--
152	W4-4C(3)	TRAFFIC ON 45 DOES NOT STOP	36 x 18	--	4.500	--	--	--	--	--	--	--	151	--	--	--	--	--	--	--	--	--	--	--
153	J3-2(2S)	--	48 x 57	19.000	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M3-2	--	24 x 12																					
	M1-5A	CTH A	24 x 24																					
	M6-1	--	21 x 21																					
	M3-4	--	24 x 12																					
	M1-5A	CTH A	24 x 24																					
	M6-1	--	21 x 21																					
154	R1-1(3)	--	36 x 36	7.460	--	1	1	--	--	--	--	--	--	MOUNT ON NEW SIGNAL POLE	--	--	--	--	--	--	--	--	--	--	--
155	W4-4C(3)	TRAFFIC ON 45 DOES NOT STOP	36 x 18	--	4.500	--	--	--	--	--	--	--	154	--	--	--	--	--	--	--	--	--	--	--
156	J4-1(2S)	--	24 x 36	6.000	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M3-2	--	24 x 12																					
	M1-5A	CTH A	24 x 24																					

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 TUBULAR STEEL POSTS 2"X2"X14' [EA]	634.0816 TUBULAR STEEL POSTS 2"X2"X16' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	638.2101 MOVING SIGNS TYPE I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
157	R5-1(2S)	--	30 x 30	6.250	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
158	R1-1(3)	--	36 x 36	7.460	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
159	W4-4C(3)	TRAFFIC ON 45 DOES NOT STOP	36 x 18	--	4.500	--	--	--	--	--	--	--	158	--	--	--	--	--	--	--	--	--	--	--
160	J13-1(2S)	--	24 x 45	7.500	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M1-4	USH 45	24 x 24																					
	M6-4	--	21 x 21																					
161	J1-1(2S)	--	24 x 39	6.500	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M2-1	--	21 x 15																					
	M1-4	USH 45	24 x 24																					
162	J2-2	--	-- x --	--	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
163	J1-1(2S)	--	24 x 39	6.500	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M2-1	--	21 x 15																					
	M1-5A	CTH A	24 x 24																					
164	W2-1(2S)	--	30 x 30	--	6.250	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
165	W2-1(2S)	--	30 x 30	--	6.250	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
166	W14-3(2S)	--	48 x 36	--	6.000	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
167	W2-1(2S)	--	30 x 30	--	6.250	--	--	--	--	--	--	--	166	--	--	--	--	--	--	--	--	--	--	--
168	*NOT USED*	--	-- x --	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
169	W14-3(2S)	--	48 x 36	--	6.000	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
170	J1-1(2S)	--	24 x 39	6.500	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M2-1	--	21 x 15																					
	M1-6	STH 20	24 x 24																					
171	W2-6(2S)	--	30 x 30	--	6.250	1	1	1	--	--	--	--	--	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--	--	--
172	W13-1(2S)	15 MPH	18 x 18	--	2.250	--	--	--	--	--	--	--	171	--	--	--	--	--	--	--	--	--	--	--
173	W3-2(2S)	--	36 x 36	--	9.000	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
174	D1-62	--	-- x --	--	--	--	--	--	--	--	--	--	--	MOVE TYPE I SIGN TO NEW STEEL POSTS AND NEW BASES	1	A	1.2	68	600	--	--	--	--	--
175	W14-3(2S)	--	48 x 36	--	6.000	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
176	D2-2	UNION GROVE 4	84 x 15	8.750	--	1	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
177	I55-56	--	-- x --	--	--	1	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
178	W6-3(2S)	--	36 x 36	--	9.000	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
179	D1-3	MILWAUKEE [A] WATERFORD RACINE [A]	102 x 36	25.500	--	1	2	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
180	W3-3	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
181	J1-1(2S)	--	24 x 39	6.500	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M2-1	--	21 x 15																					
	M1-4	USH 45	24 x 24																					
182	W2-6(2S)	--	30 x 30	--	6.250	--	--	1	--	--	--	--	--	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--	--	--
183	W13-1(2S)	15 MPH	18 x 18	--	2.250	--	--	--	--	--	--	--	182	--	--	--	--	--	--	--	--	--	--	--
184	D1-62	EAST [C] NORTH [45] [A] SOUTH [45]	108 x 84	63.000	--	--	--	--	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
185	J1-1	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
186	W3-2(2S)	--	36 x 36	--	9.000	--	--	1	--	--	--	--	--	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--	--
187	I55-56	--	-- x --	--	--	--	1	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
188	R2-1(2S)	45 MPH	24 x 30	5.000	--	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
189	R4-7(2S)	--	24 x 30	5.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 TUBULAR STEEL POSTS 2"X2"X14' [EA]	634.0816 TUBULAR STEEL POSTS 2"X2"X16' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	638.2101 MOVING SIGNS TYPE I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
190	W5-54(2S)	--	18 x 18	--	2.250	--	--	--	--	--	--	--	189	--	--	--	--	--	--	--	--	--	--	--
191	--	WIS VETERANS CEMETERY [A]	-- x --	--	--	--	2	--	--	2	--	1	--	--	--	--	--	--	--	--	--	--	--	--
192	--	WIS VETERANS HOME [A]	-- x --	--	--	--	--	--	--	--	--	1	191	--	--	--	--	--	--	--	--	--	--	--
193	M1-5A(2S)	CTH C	-- x --	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
194	R6-2R(2S)	--	24 x 30	5.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
195	J3-2	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
196	J3-2	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
197	J1-1	--	-- x --	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
198	R6-2R(2S)	--	24 x 30	5.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
199	R6-2R(2S)	--	24 x 30	5.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
200	R4-7(2S)	--	24 x 30	5.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
201	W5-54(2S)	--	18 x 18	--	2.250	--	--	--	--	--	--	--	200	--	--	--	--	--	--	--	--	--	--	--
202	R5-1(3)	--	36 x 36	9.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
203	I55-56	--	-- x --	--	--	--	1	--	--	1	--	1	--	--	--	--	--	--	--	--	--	--	--	--
204	R5-1A(2S)	--	36 x 24	6.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
205	R2-1(2S)	45 MPH	24 x 30	5.000	--	--	--	--	--	--	--	--	204	BACK OF SIGN #204	--	--	--	--	--	--	--	--	--	--
206	M1-5A(2S)	CTH C	24 x 24	4.000	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
207	W3-2(2S)	--	36 x 36	--	9.000	--	--	1	--	--	--	--	--	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--	--
208	W3-3	--	-- x --	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
209	D1-62	WEST [C] SOUTH [45] [A] NORTH [45]	108 x 84	63.000	--	--	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
210	W2-6(2S)	--	30 x 30	--	6.250	--	--	1	--	--	--	--	--	TEMP 16X16 ORANGE FLAGS INCIDENTAL	--	--	--	--	--	--	--	--	--	--
211	W13-1(2S)	15 MPH	18 x 18	--	2.250	--	--	1	--	--	--	--	210	--	--	--	--	--	--	--	--	--	--	--
212	J1-1(2S)	--	24 x 39	6.500	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	M2-1	--	21 x 15																					
	M1-4	USH 45	24 x 24																					
213	W2-2(2S)	--	30 x 30	--	6.250	--	--	1	--	--	--	--	--	SHEET 2 OF 20	--	--	--	--	--	--	--	--	--	--
214	R1-6(2S)	--	12 x 36	--	3.000	--	--	--	--	1	--	--	--	2 FT MOUNT HEIGHT - SHEET 5 OF 20	--	--	--	--	--	--	--	--	--	--
215	R1-6(2S)	--	12 x 36	--	3.000	--	--	--	--	--	--	--	214	BACK OF SIGN #214 - SHEET 5 OF 20	--	--	--	--	--	--	--	--	--	--
216	W11-2(2S)	--	30 x 30	--	6.250	--	--	--	--	1	--	--	--	SHEET 5 OF 20	--	--	--	--	--	--	--	--	--	--
217	W16-7L(2S)	--	24 x 12	--	2.000	--	--	--	--	--	--	--	216	SHEET 5 OF 20	--	--	--	--	--	--	--	--	--	--
218	R1-6(2S)	--	12 x 36	--	3.000	--	--	--	--	1	--	--	--	2 FT MOUNT HEIGHT - SHEET 5 OF 20	--	--	--	--	--	--	--	--	--	--
219	R1-6(2S)	--	12 x 36	--	3.000	--	--	--	--	--	--	--	218	BACK OF SIGN #218 - SHEET 5 OF 20	--	--	--	--	--	--	--	--	--	--
220	W11-2(2S)	--	30 x 30	--	6.250	--	--	--	--	1	--	--	--	SHEET 5 OF 20	--	--	--	--	--	--	--	--	--	--
221	W16-7L(2S)	--	24 x 12	--	2.000	--	--	--	--	--	--	--	220	SHEET 5 OF 20	--	--	--	--	--	--	--	--	--	--
222	R1-6(2S)	--	12 x 36	--	3.000	--	--	--	--	1	--	--	--	2 FT MOUNT HEIGHT - SHEET 5 OF 20	--	--	--	--	--	--	--	--	--	--
223	R1-6(2S)	--	12 x 36	--	3.000	--	--	--	--	--	--	--	222	BACK OF SIGN #222 - SHEET 5 OF 20	--	--	--	--	--	--	--	--	--	--
224	W11-2(2S)	--	30 x 30	--	6.250	--	--	--	--	1	--	--	--	SHEET 5 OF 20	--	--	--	--	--	--	--	--	--	--
225	W16-7L(2S)	--	24 x 12	--	2.000	--	--	--	--	--	--	--	224	SHEET 5 OF 20	--	--	--	--	--	--	--	--	--	--
226	R1-6(2S)	--	12 x 36	--	3.000	--	--	--	--	1	--	--	--	2 FT MOUNT HEIGHT - SHEET 5 OF 20	--	--	--	--	--	--	--	--	--	--
227	R1-6(2S)	--	12 x 36	--	3.000	--	--	--	--	--	--	--	226	BACK OF SIGN #226 - SHEET 5 OF 20	--	--	--	--	--	--	--	--	--	--
228	W11-2(2S)	--	30 x 30	--	6.250	--	--	--	--	1	--	--	--	SHEET 5 OF 20	--	--	--	--	--	--	--	--	--	--
229	W16-7L(2S)	--	24 x 12	--	2.000	--	--	--	--	--	--	--	228	SHEET 5 OF 20	--	--	--	--	--	--	--	--	--	--
230	W2-1(2S)	--	30 x 30	--	6.250	--	--	1	--	--	--	--	--	SHEET 12 OF 20	--	--	--	--	--	--	--	--	--	--
231	W2-1(2S)	--	30 x 30	--	6.250	--	--	1	--	--	--	--	--	SHEET 12 OF 20	--	--	--	--	--	--	--	--	--	--
232	R5-1(2S)	--	30 x 30	6.250	--	--	--	--	--	1	--	--	--	SHEET 17 OF 20	--	--	--	--	--	--	--	--	--	--

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0622 WOOD POSTS 4"X 6"x22' [EA]	634.0814 TUBULAR STEEL POSTS 2"X2"X14' [EA]	634.0816 TUBULAR STEEL POSTS 2"X2"X16' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	638.2101 MOVING SIGNS TYPE I [EA]	STEEL POST TYPE	636.0100 SIGN SUPPORTS CONCRETE MASONRY [CY]	636.0500 SIGN SUPPORTS STEEL REINF. [LBS]	635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS [EST.LBS]	INFO ONLY-POST LENGTHS TO BE VERIFIED BY CONTRACTOR: POST NO 1 LENGTH [FT]	POST NO 2 LENGTH [FT]	OFF SET DISTANCE [FT]	DIST BTWN POSTS "S" [FT]
233	R5-1A(2S)	--	36 x 24	6.000	--	--	--	--	--	1	--	--	--	SHEET 17 OF 20	--	--	--	--	--	--	--	--	--
234	R3-4(2S)	--	24 x 24	4.000	--	--	--	--	--	--	--	--	189	BACK OF SIGN #189 - SHEET 17 OF 20	--	--	--	--	--	--	--	--	--
235	R3-4(2S)	--	24 x 24	4.000	--	--	--	--	--	--	--	--	200	BACK OF SIGN #200 - SHEET 19 OF 20	--	--	--	--	--	--	--	--	--
236	R6-2L(2S)	--	24 x 30	5.000	--	--	--	1	--	--	--	--	--	SHEET 4 OF 20	--	--	--	--	--	--	--	--	--
237	M1-5A	--	-- x --	--	--	1	1	--	--	--	--	--	--	SHEET 5 OF 20	--	--	--	--	--	--	--	--	--
238	W4-2R(2S)	--	36 X 36	--	9.000	--	--	1	--	--	--	--	--	SHEET 10 OF 20	--	--	--	--	--	--	--	--	--
239	W9-1R(2S)	--	36 X 36	--	9.000	--	--	1	--	--	--	--	--	SHEET 10 OF 20	--	--	--	--	--	--	--	--	--
	TOTALS			1093.850	404.500	92	100	85	10	78	6	10			1	--	1.2	68	600				

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

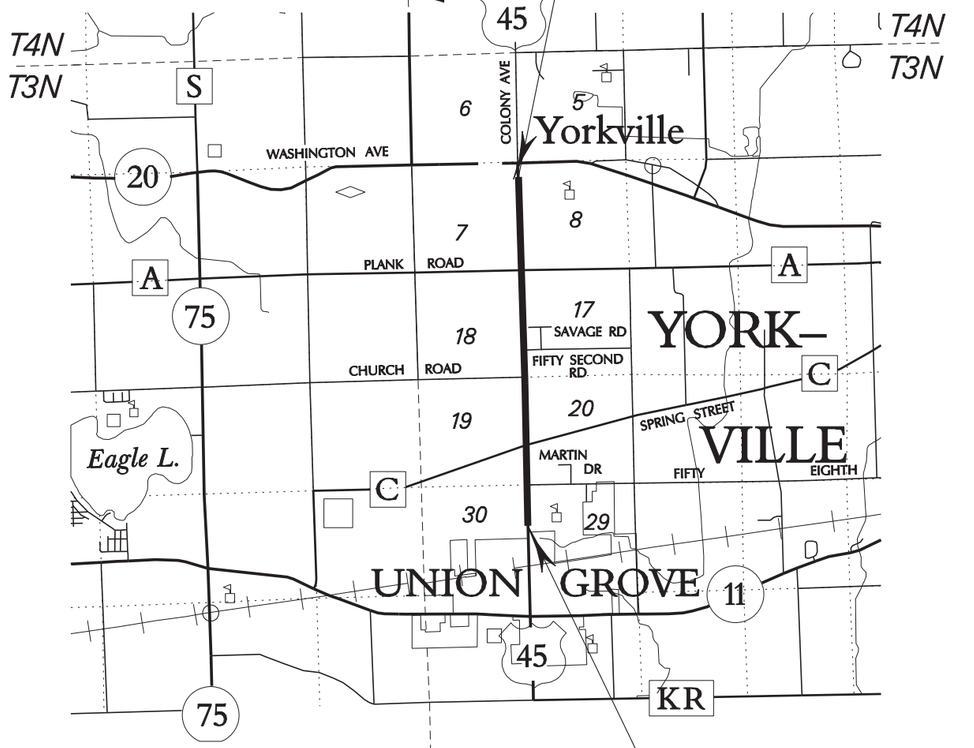
TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 2430-06-20

USH 45
COLONY DRIVE
7TH AVENUE TO STH 20 (WASHINGTON AVENUE)

RACINE COUNTY

END RELOCATION ORDER
STA. 268+40.00
731.71' SOUTH AND 3.68' EAST OF THE NORTHWEST CORNER OF SECTION 8, T3N, R21E, RACINE COUNTY



BEGIN RELOCATION ORDER
STA. 97+75.00
677.51' NORTH AND 3.08' WEST OF THE WEST 1/4 CORNER OF SECTION 29, T3N, R21E, RACINE COUNTY
Y=173,781.784
X=567,663.290

LAYOUT
NO SCALE

TOTAL NET LENGTH OF CENTERLINE = 3.35 MI.

GN

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	PROPERTY LINE	PL
ACCESS RIGHTS	AR	RECORDED AS	(100')
ACRES	AC	REFERENCE LINE	R/L
AHEAD	AH	RELEASE OF RIGHTS	ROR
ALUMINUM	ALUM.	REFERENCE	REF
AND OTHERS	ET.AL.	REMAINING	REM
BACK	BK	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC
CERTIFIED SURVEY MAP	CSM	SQUARE FEET	SQ. FT.
CONCRETE	CONC	SOUTHEAST	SE
CORNER	COR	SOUTHWEST	SW
CONVEYANCE OF RIGHTS	CR	STATE TRUNK HIGHWAY	STH
DOCUMENT	DOC	STATION	STA
EASEMENT	EASE	TEMPORARY LIMITED EASEMENT	TLE
HIGHWAY EASEMENT	HE	VOLUME	V
IRON PIPE	IP		
IRON ROD	IR		
LAND CONTRACT	LC		
MONUMENT	MON		
NORTHEAST	NE		
NORTHWEST	NW		
PAGE	P		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF CURVE	PC		
POINT OF INTERSECTION	PI		
POINT OF TANGENCY	PT		

CURVE DATA

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

CONVENTIONAL SYMBOLS

- FOUND IRON PIPE/PIN (LP (1" UNLESS NOTED))
- FOUND IRON ROD (LR (3/4" UNLESS NOTED))
- R/W MONUMENT ○ ●(SET)
- R/W STANDARD △ ▲(SET)
- SIGN ISIGN
- SECTION CORNER MONUMENT
- SECTION CORNER SYMBOL
- FEE (HATCH VARIES)
- TEMPORARY LIMITED EASEMENT
- PERMANENT LIMITED EASEMENT
- HIGHWAY EASEMENT
- R/W BOUNDARY POINT 200
- PARCEL NUMBER 102
- UTILITY NUMBER 200
- SIGN NUMBER (OFF PREMISE) 21-1
- BUILDING
- PROPOSED R/W LINE
- EXISTING H.E. LINE
- PROPERTY LINE
- LOT & TIE LINES
- SLOPE INTERCEPTS
- CORPORATE LIMITS
- ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
- ACCESS RESTRICTED (BY ACQUISITION)
- NO ACCESS (BY STATUTORY AUTHORITY)
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- EXISTING CENTERLINE
- PROPOSED REFERENCE LINE
- PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

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

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY ZONE, NAD83 (1997) ADJUSTMENT.
THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION.
RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

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

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

A **PERMANENT LIMITED EASEMENT** (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

DOCUMENT # 2360779
RACINE COUNTY REGISTER OF DEEDS
August 07, 2013 7:55 AM
TYSON FEITES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 2
Vol 1 Pg 245

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2430-06-20 - 4.01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : S:\5165104\plat\040101_rt.DGN
APPRAISAL PLAT DATE: MAY 9, 2013
PLOT DATE : 7/16/2013
PLOT BY : gak
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
CONSTRUCTION: 2330-06-70, R/W PLAT: 2430-06-20 4.00

TRANSPORTATION PROJECT PLAT NO: 2430-06-20 - 4.01 AMENDMENT NO.2

AMENDS TPP SHEET 2430-06-20-4.01 AMENDMENT #1 RECORDED IN RACINE COUNTY AS DOCUMENT NO. 2369947 BY REVISING PARCEL 3.

THAT PART OF LOT 1, AND LOT 3 OF CSM 2823, ALSO THAT PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 AND THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 30, IN THE VILLAGE OF UNION GROVE, AND LOT 1, CSM 2902, ALSO THAT PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 AND THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4OF SECTION 29, IN THE TOWN OF YORKVILLE, ALL OF TOWNSHIP 3 NORTH, RANGE 21 EAST, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45 COLONY AVENUE 7TH AVENUE - STH 20 RACINE COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO DOT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	AREA ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES
1	ST. ROBERT BELLARMINE CONGREGATION	FEE, TLE	0.599		0.599	0.032	
2	THE NEWPORT GROUP LTD	FEE, TLE	1.260		1.260	0.351	
3	JEFFREY R. & LORAINE K. TRICK	PLE, TLE	--		--	0.063	0.050
4	THEODORE J. D. & JOYCE L. DREMEL TRUST	FEE, TLE	0.105		0.105	0.040	
5	DANIEL F. RIEDEL	FEE, TLE	1.148		1.148	0.244	

UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	AT&T WISCONSIN	ROR
101	WE ENERGIES-ELEC	ROR
102	RACINE COUNTY	ROR

VILLAGE OF UNION GROVE

TOWN OF YORKVILLE

101 WE ENERGIES-ELEC
10' EASEMENT
DOC.966987
V.1292, P.578
PARCEL 1

NO RECORD OF EASEMENT
PARCEL 5

100 AT&T WISCONSIN
6' EASEMENT
DOC.1467732
V.2374, P.866
PARCEL 4

6' EASEMENT
DOC.1492462
V.2428, P.700
PARCEL 5

102 RACINE COUNTY
30' EASEMENT
DOC.592541
V.536, P.294
PARCEL 2

30' EASEMENT
DOC.592544
V.536, P.300
PARCEL 4

NON DESCRIPT STORMWATER AGREEMENT
DOC.2341941
PARCEL 4

CAST IRON MONUMENT WITH BRASS CAP Y=173,100.164 X=565,022.095

CAST IRON MONUMENT WITH BRASS CAP Y=173,081.482 X=570,311.234

CONCRETE MONUMENT WITH BRASS CAP Y=173,094.271 X=567,666.372

CAST IRON MONUMENT WITH BRASS CAP Y=175,748.307 X=561,654.304

CAST IRON MONUMENT WITH BRASS CAP Y=175,743.108 X=565,002.598

CAST IRON MONUMENT WITH BRASS CAP Y=175,725.560 X=570,307.390

LOT 4 CSM 2823 DOC. 2114873 VOL. 9, PG. 51

LOT 1 CSM 2823 DOC. 2114873 VOL. 9, PG. 51

LOT 3 CSM 2823 DOC. 2114873 VOL. 9, PG. 51

LOT 2 CSM 2902 DOC. 2168573 VOL. 9, PG. 347

LOT 1 CSM 2902 DOC. 2168573 VOL. 9, PG. 347

UNPLATTED LANDS

7TH AVE

USH 45

S COLONY AVE.

58TH ROAD

STH 45 117+41.54= 58TH ROAD 50+00.00

BEGIN RELOCATION ORDER
STH 45 97+75
Y=173,781.784
X=567,663.290

P 190+97.48

P 117+41.54

TLE, SLOPES

TLE, SLOPES & DRIVEWAY

PLE, STRUCTURES & STRUC. MAINTENANCE

TLE, SLOPES & DRIVEWAY

TLE, SLOPES & DRIVEWAY

TLE, SLOPES & DRIVEWAY

SE-NE

NE-NE

SW-NW

NW-NW

PL = 1/16 LINE N89°54'20"E

PL N89°54'01"E 2641.75'

N89°54'01"E 2536.75'

N89°54'01"E 60.00'

N89°54'40"E 2644.28'

N89°54'40"E 2599.28'

N89°30'23"W 2644.96'

S89°54'40"W 45.00'

N00°15'38"W 794.60'

N00°15'38"W 2,644.06'

S35°15'10"E 61.03'

S46°39'47"W 61.61'

N22°03'44"W 161.56'

S16°39'15"W 292.15'

S84°39'22"W 265.58'

N89°30'32"W 374.56'

S89°30'32"E 730.00'

S89°30'32"E 2653.68'

S00°29'28"W 33.00'

N89°54'01"E 45.00'

S89°44'22"E 35.00'

S89°44'22"W 35.00'

S89°45'25"W

N89°42'57"E

S89°30'27"E 5.00'

N89°30'27"W

N87°06'38"W 25.04'

675.00'

373.17'

351.37'

241.59'

636.84'

1167.05'

1289.03'

981.41'

813.26'

485.82'

267.23'

145.17'
145.18'

43.24'

93.53'

75.00'

40.00'

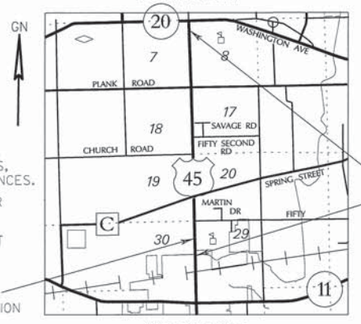
PLAT R/L = SEC. LINE

RW700 98+50
RW701 100+00
RW702 104+05
RW703 106+75
RW704 107+55
RW705 108+63.40
RW706 117+41.84BK
RW707 54+20
RW708 116+79.50
RW709 114+00
RW710 104+18.59
RW711 104+18.53
RW712 102+00
RW713 99+32.77
RW714 99+34.15
RW687 103+25
RW688 102+75
EX715
EX714
EX845 107+18.24
EX846 108+63.41
RW844 PLE896
RW849 PLE847 108+63.42
102+83.72
103+26.58
103+85
104+18.07
107+40
108+00
108+85
109+20
109+15
110+25
111+05
114+30
53+70
54+40
57+30

1 2 3 4 5 100 101

IR ¾"IP 1-¼"IP 1½"IR 1¼"IP

LOCATION MAP



NOT TO SCALE

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, RACINE COUNTY, NAD83 (1997) ADJUSTMENT IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION.

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

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2360779, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2360779, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 45	PROJECT T 058-1(6)	VARIES	1952
58TH ROAD	DOC. 1979642	66'	2004

LOT#	PARCEL#
1	186-03-21-30-004-010
2	186-03-21-30-001-013
3	186-03-21-30-003-010
4	186-03-21-29-006-011
5	186-03-21-29-004-010

GN

SCALE, FEET
0 100 200

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

R.A. Smith National
Beyond Surveying and Engineering
16745 W. Bluemound Road, Brookfield WI 53005
262-781-1000 Fax 262-781-8466
www.rasmithnational.com

I, GREGORY A. KUNZ, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2430-06-20 - 4.01 AMENDMENT NO.2 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GREGORY A. KUNZ S-1346 WAUKESHA, WI LAND SURVEYOR

GREGORY A. KUNZ — 11/12//2014
AGENT FOR R.A. SMITH NATIONAL — DATE
R.L.S. NUMBER 1346

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

ROBERT L. DUFFECK — 12/2/14
DATE:

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2430-06-20 4.01
AMENDMENT NO. 2

DOCUMENT # 2398339
RACINE COUNTY REGISTER OF DEEDS
January 14, 2015 3:36 PM

TYSON FETTES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: 425.00
Pages: 1

Vol 1 Po 274

FILE NAME : S:\5165104\Plat\040401-A2_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 11/12/2014
PLOT BY : Gak
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
CONSTRUCTION: 2430-06-70, R/W PLAT: 2430-06-20 4.01 A-2

TRANSPORTATION PROJECT PLAT NO: 2430-06-20 - 4.02
AMEDNDMENT NO. 1

AMENDS TPP 2430-06-20-4.02 RECORDED IN RACINE COUNTY AS DOCUMENT NO.2369947 BY REVISING PARCEL 8.

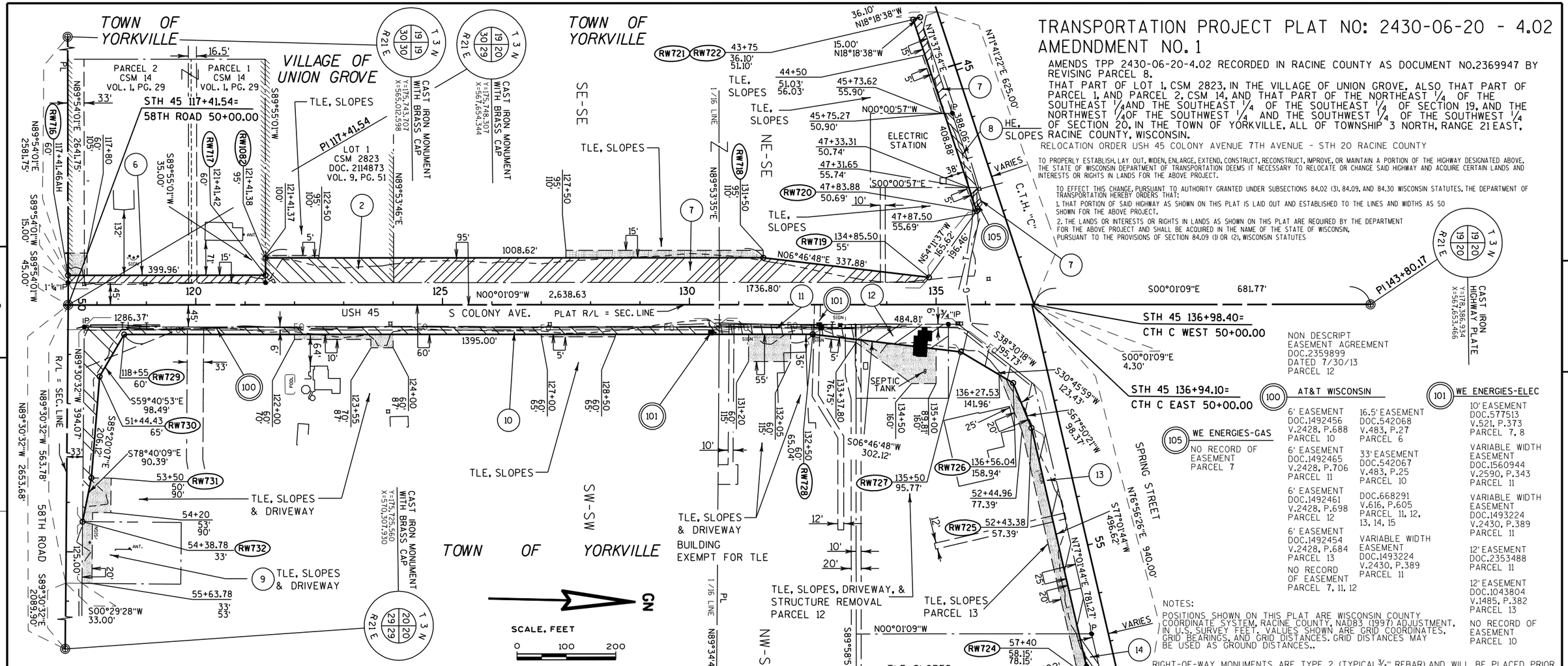
THAT PART OF LOT 1, CSM 2823, IN THE VILLAGE OF UNION GROVE, ALSO THAT PART OF PARCEL 1, AND PARCEL 2, CSM 14, AND THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 AND THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 19, AND THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 AND THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 20, IN THE TOWN OF YORKVILLE, ALL OF TOWNSHIP 3 NORTH, RANGE 21 EAST, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45 COLONY AVENUE 7TH AVENUE - STH 20 RACINE COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09, AND 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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



NON DESCRIPT EASEMENT AGREEMENT DOC.2359899 DATED 7/30/13 PARCEL 12

100 AT&T WISCONSIN
- 6' EASEMENT DOC.1492456 V.2428, P.688 PARCEL 10
- 6' EASEMENT DOC.1492465 V.2428, P.706 PARCEL 11
- 6' EASEMENT DOC.1492461 V.2428, P.698 PARCEL 12
- 6' EASEMENT DOC.1492454 V.2428, P.684 PARCEL 13
- NO RECORD OF EASEMENT PARCEL 7, 11, 12
- 16.5' EASEMENT DOC.542068 V.483, P.27 PARCEL 6
- 33' EASEMENT DOC.542067 V.483, P.25 PARCEL 10
- DOC.668291 V.616, P.605 PARCEL 11, 12, 13, 14, 15
- VARIABLE WIDTH EASEMENT DOC.1493224 V.2430, P.389 PARCEL 11

101 WE ENERGIES-ELEC
- 10' EASEMENT DOC.577513 V.521, P.373 PARCEL 7, 8
- VARIABLE WIDTH EASEMENT DOC.1560944 V.2590, P.343 PARCEL 11
- VARIABLE WIDTH EASEMENT DOC.1493224 V.2430, P.389 PARCEL 11
- 12' EASEMENT DOC.2353488 PARCEL 11
- 12' EASEMENT DOC.1043804 V.1485, P.382 PARCEL 13
- NO RECORD OF EASEMENT PARCEL 10

105 WE ENERGIES-GAS
- NO RECORD OF EASEMENT PARCEL 7

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, NAD83 (1997) ADJUSTMENT, IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES..

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION.

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

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECASSARY OR DESIRABLE.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO DOT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	AREA ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES
2	THE NEWPORT GROUP LTD	FEE, TLE	0.298		0.298	0.012	
6	TRINITY EVANGELICAL LUTHERAN CHURCH	FEE, TLE	0.086		0.086	0.040	
7	JOHN K. EIGENAUER REVOCABLE LIVING TRUST	FEE, TLE	1.174		1.174	0.158	
8	WISCONSIN ELECTRIC POWER COMPANY	HE	0.054		0.054		
9	ROLLAND W.G. OR CLARE A. GRAF UNDER GRAF LIVING TRUST	TLE				0.057	
10	TRUSTEES OF CHRISTMAN REVOCABLE TRUST	FEE, TLE	0.686		0.686	0.164	
11	RAYMOND G. A. & MARJORIE P. ALDERMAN REVOCABLE TRUST	FEE, TLE	0.138		0.138	0.119	
12	NICHOLAS B. W. & PAMELA J. WEIS	FEE, TLE	0.179		0.179	0.190	
13	M&M INVESTMENTS OF UNION GROVE, LLC	FEE, TLE	0.462		0.462	0.246	
14	MILORAD IGNJATOVIC	FEE, TLE	0.076		0.076	0.065	
15	CHRISTENSEN REVOCABLE TRUST	FEE, TLE	0.019		0.019	0.028	

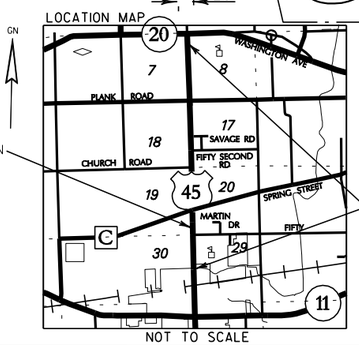
UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	AT&T WISCONSIN	ROR
101	WE ENERGIES-ELEC	ROR
105	WE ENERGIES-GAS	ROR

THIS IS A COPY, ORIGINAL IS FILED AT THE RACINE COUNTY REGISTOR OF DEEDS.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2360779, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 45	PROJECT T 058-1(6)	VARIES	1952
58TH ROAD	DOC. 778093 V.840 P.3	66'	1964
C.T.H. C	PROJECT T 058-1(6)	VARIES	1952

LOCATION MAP



R.A. Smith National
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262-781-1000 Fax 262-781-8466
www.rasmithnational.com

I, GREGORY A. KUNZ, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2430-06-20 - 4.02 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GREGORY A. KUNZ S-1346 WAUKESHA, WI LAND SURVEYOR

2/17/2014
GREGORY A. KUNZ — DATE
AGENT FOR R.A. SMITH NATIONAL
R.L.S. NUMBER 1346

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

DATE: 2/18//2014
ROBERT L. DUFFECK

VOLUME 1 PAGE 265

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2430-06-20 4.02
AMENDMENT NO: 1

DOCUMENT # 2377172
RACINE COUNTY REGISTER OF DEEDS
March 28, 2014 9:26 AM
TYSON FETTES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 2
Vol 1 Pg 265

TRANSPORTATION PROJECT PLAT NO: 2430-06-20 - 4.03
AMENDMENT NO: 1

AMENDS TPP SHEET 2430-06-20 - 4.03 RECORDED IN DOCUMENT NO: 2365562 BY REVISING PARCELS 26 & 27

THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 AND THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 19, AND THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 AND THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 20, ALL OF TOWNSHIP 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45 COLONY AVENUE 7TH AVENUE - STH 20 RACINE COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09, AND 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

TOWN OF YORKVILLE

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER	INTEREST REQUIRED	AREA ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES
16	JOSEPH J. SWIK, JR.	FEE, TLE	0.020		0.020	0.007	
17	MICHAEL T. M. & SUSAN R. MAREMA	FEE, TLE	0.064		0.064	0.021	
18	LARRY A. Y. & SALMA J. YARRINGTON	FEE, TLE	0.045		0.045	0.015	
19	ROGER G. R. & ARLENE I. RUNKEL	FEE, TLE	0.022		0.022	0.024	
20	ROSEANNE FOHR	FEE, TLE	0.054		0.054	0.064	
21	MENAREK ENTERPRISES, LLP	FEE, TLE	0.046		0.046	0.068	
22	THOMAS E. R. & NANCY JO REICH	FEE	0.015		0.015		
23	PHILIP R. C. & MARGARET MARY CZECHOLINSKI	FEE, TLE	0.028		0.028	0.022	
24	JAYNE SHEEN AND SUE DOSEDLA	FEE, TLE	0.016		0.016	0.033	
25	ROGER PALMEN FAMILY, LLP	FEE, TLE	0.021		0.021	0.143	
26	MY LITTLE SCHOOL HOUSE BUILDING 1, LLC	FEE, TLE	0.052		0.052	0.036	
27	PYRAMID MANAGEMENT GROUP, LLC	FEE, TLE	0.051		0.051	0.033	
28	E & D AUTO, LLC	FEE, TLE	0.034		0.034	0.052	
29	WILLIAM J. B. & JANET R. BLUM LIVING TRUST	FEE, TLE	0.057		0.057	0.052	
39	CHRIS T. G. & SUSAN J. GORMAN	FEE, TLE	0.572		0.572	0.024	

UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	AT&T WISCONSIN	ROR
101	WE ENERGIES-ELEC	ROR

(100) AT&T WISCONSIN
6' EASEMENT DOC.1492469 V.2428, P.714 PARCEL 25
6' EASEMENT DOC.1453657 V.2342, P.444 PARCEL 28
6' EASEMENT DOC.1492452 V.2428, P.680 PARCEL 29
6' EASEMENT DOC.1475071 V.2390, P.859 PARCEL 30
6' EASEMENT DOC.1467730 V.2374, P.862 PARCEL 30

(101) WE ENERGIES-ELEC
12' EASEMENT DOC.1736336 V.3053, P.949 PARCEL 18
NO RECORD OF EASEMENT PARCEL 27, 28, 29

COMPUTED HOLDING SEWRPC DISTANCE FROM WC - BEARING ROTATED BASED ON EAST LINE OF SE 1/4 SEC 19-3-21
Y=178,381.667
X=565,010.675

WITNESS CORNER CONCRETE MONUMENT WITH BRASS CAP
Y=178,381.663
X=565,009.175

CAST IRON MONUMENT WITH BRASS CAP
Y=181,030.975
X=567,658.885

CAST IRON HIGHWAY PLATE
Y=178,386.934
X=567,653.466

CONCRETE MONUMENT WITH BRASS CAP
Y=178,370.715
X=570,308.055

CAST IRON MONUMENT WITH BRASS CAP
Y=175,748.307
X=567,654.344

LOCATION MAP

SCALE, FEET
0 100 200

NOT TO SCALE

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 45	PROJECT T 058-1(6)	VARIES	1952
CTH "C"	PROJECT T 058-1(6)	VARIES	1952

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, RACINE COUNTY, NAD 83 (1997) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION.

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

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2360779, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

PI 117+41.54

PI 170+24.22

PI 143+80.17

S COLONY AVE.

USH 45

SPRING STREET

CTH C

STH 45 136+98.40= CTH C WEST 50+00.00

STH 45 136+94.10= CTH C EAST 50+00.00

TLE, SLOPES & DRIVEWAY

TLE, SLOPES

SE-NE

SW-NW

NE-SE

NW-SW

LOT#	PARCEL#
16	018-03-21-19-031-000
17	018-03-21-19-029-030
18	018-03-21-19-029-040
19	018-03-21-19-029-001
20	018-03-21-19-029-020
21	018-03-21-19-033-000
22	018-03-21-19-008-000
23	018-03-21-19-003-000
24	018-03-21-19-010-000
25	018-03-21-20-017-001
26	018-03-21-20-017-000
27	018-03-21-20-020-004
28	018-03-21-20-018-000
29	018-03-21-20-020-003
39	018-03-21-20-013-000

R.A. Smith National
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16745 W. Bluemound Road, Brookfield WI 53005
262-781-1000 Fax 262-781-8466
www.rasmithnational.com

I, GREGORY A. KUNZ, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2430-06-20 - 4.03AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GREGORY A. KUNZ S-1346 WAUKESHA, WI LAND SURVEYOR

11/12/2014
GREGORY A. KUNZ DATE
AGENT FOR R.A. SMITH NATIONAL
R.L.S. NUMBER 1346

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

ROBERT L. DUFFECK DATE: 12/2/14

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2430-06-20 4.03
AMENDMENT NO: 1

DOCUMENT # 2398335
RACINE COUNTY REGISTER OF DEEDS
January 14, 2015 3:36 PM
TYSON FETTES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1
Vol 1

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

FILE NAME : S:\5165104\Plat\040403-A1_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 11/12/2014
PLOT BY : Gdk
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
CONSTRUCTION: 2430-06-70, R/W PLAT: 2430-06-20 4.03A-1

TRANSPORTATION PROJECT PLAT NO: 2430-06-20 - 4.04

THAT PART OF LOT 1 OF CSM 13 IN AND INCLUDING PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 AND PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 20, ALSO, PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 AND PART OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 19, ALL OF TOWNSHIP 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45 COLONY AVENUE 7TH AVENUE - STH 20 RACINE COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09, AND 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

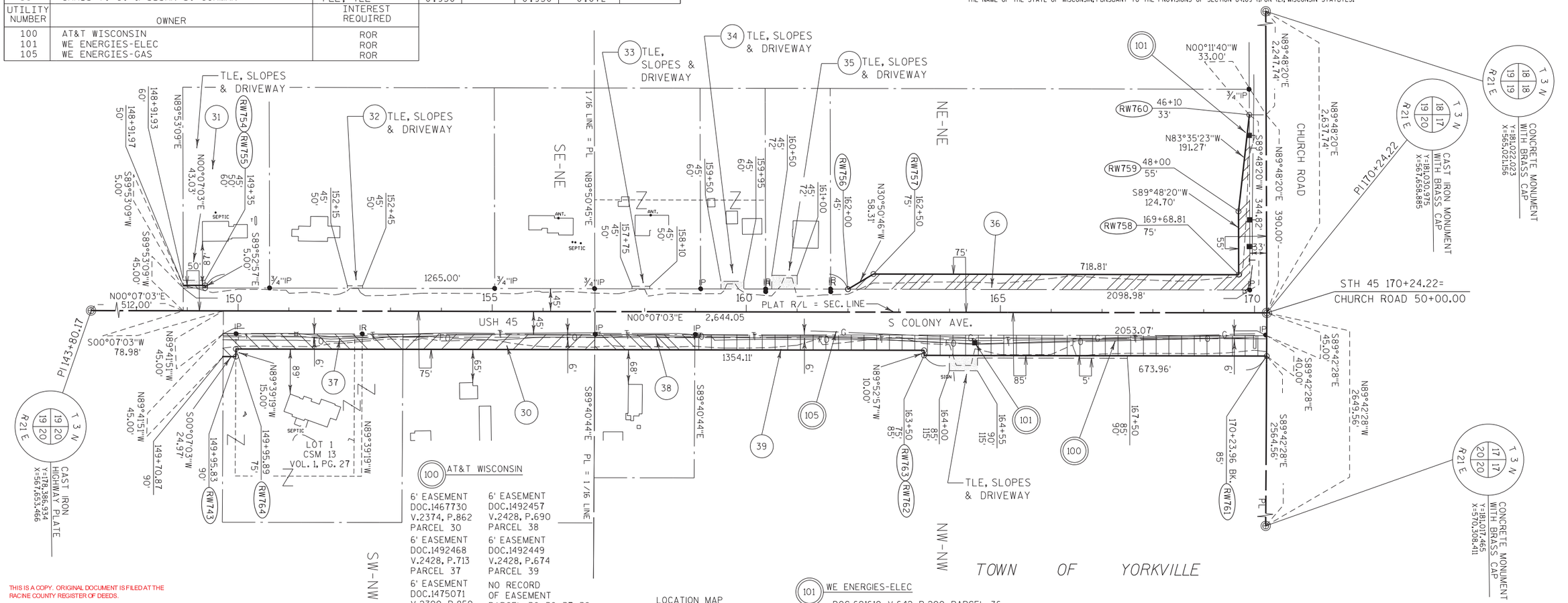
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO DOT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	AREA ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES
30	NANCY R. KASPROWICZ	FEE	0.260		0.260		
31	LESLIE J. BREVER	FEE, TLE	0.005		0.005	0.010	
32	ROBIN E. C. & THERESE E. CHILDERS	TLE				0.003	
33	MARVIN JOHN A. & KATHERINE L. ANDERSON	TLE				0.004	
34	BRADLEY J. M. & SHARON M. MAIER	TLE				0.015	
35	BARBARA A. OLSEN LIVING TRUST	TLE				0.031	
36	ROBERT E. FUNK, FARMS, INC.	FEE	0.638		0.638		
37	JOHN F. B. & MARY LOUISE BLUM	FEE	0.252		0.252		
38	CHARLES R. HOLLER	FEE	0.136		0.136		
39	CHRIS T. G. & SUSAN J. GORMAN	FEE, TLE	0.930		0.930	0.072	

UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	AT&T WISCONSIN	ROR
101	WE ENERGIES-ELEC	ROR
105	WE ENERGIES-GAS	ROR

TOWN OF YORKVILLE



THIS IS A COPY. ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, RACINE COUNTY, NAD 83 (1997) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BY USED AS GROUND DISTANCES.

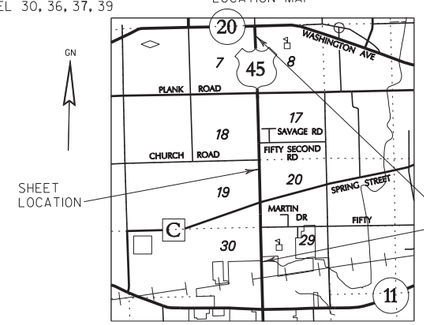
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION.

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

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 45	PROJECT T 058-1(6)	VARIES	1952
CHURCH ROAD	CSM 2526	66'	2003

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2360779, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

LOCATION MAP



100 AT&T WISCONSIN

6' EASEMENT DOC.1467730 V.2374, P.862 PARCEL 30
6' EASEMENT DOC.1492468 V.2428, P.713 PARCEL 37
6' EASEMENT DOC.1475071 V.2390, P.859 PARCEL 37
6' EASEMENT DOC.1492457 V.2428, P.690 PARCEL 38
6' EASEMENT DOC.1492449 V.2428, P.674 PARCEL 39
NO RECORD OF EASEMENT PARCEL 30, 36, 37, 39

101 WE ENERGIES-ELEC

DOC.691610 V.642, P.200 PARCEL 36
5' EASEMENT DOC.1077387 V.1573, P.570 PARCEL 39
NO RECORD OF EASEMENT PARCEL 39

105 WE ENERGIES-GAS

NO RECORD OF EASEMENT PARCEL 39

GN

SCALE, FEET
0 100 200

R.A. Smith National
Beyond Surveying and Engineering
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I, GREGORY A. KUNZ, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2430-06-20 - 4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GREGORY A. KUNZ S-1346 WAUKESHA, WI LAND SURVEYOR

09/17/2013
GREGORY A. KUNZ — DATE
AGENT FOR R.A. SMITH NATIONAL
R.L.S. NUMBER 1346

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

ROBERT L. DUFFECK DATE: 9/17/13
ROBERT L. DUFFECK

VOLUME 1 PAGE 258

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2430-06-20 4.04
AMENDMENT NO:

DOCUMENT # 2365559
RACINE COUNTY REGISTER OF DEEDS
September 30, 2013 1:07 PM

TYSON FETTES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

282

FILE NAME : S:\5165104\Plat\040404_rp.DGN
APPRAISAL PLAT DATE :
PLOT DATE : 9/26/2013
PLOT BY : Gak
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
CONSTRUCTION: 2430-06-70, R/W PLAT: 2430-06-20 4.04

TRANSPORTATION PROJECT PLAT NO: 2430-06-20 - 4.05

THAT PART OF PARCEL 1, CSM 2526, PARCEL 1, CSM 3081, AND PARCEL 2, CSM 2704, ALSO THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 AND THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 18, AND THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 AND THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 17, ALL OF TOWNSHIP 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45 COLONY AVENUE 7TH AVENUE - STH 20 RACINE COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09, AND 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

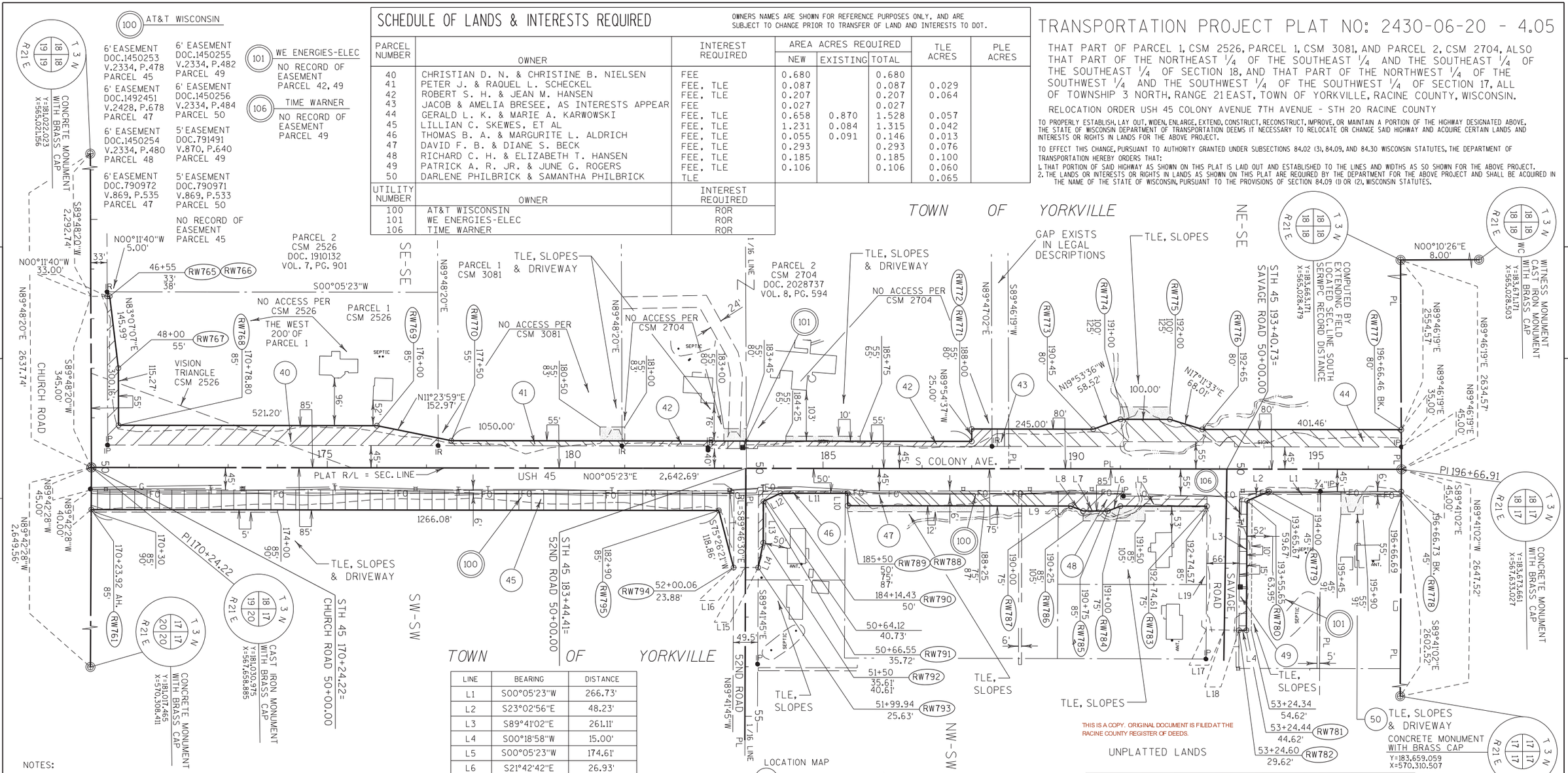
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE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

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO DOT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	AREA ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES
40	CHRISTIAN D. N. & CHRISTINE B. NIELSEN	FEE	0.680		0.680		
41	PETER J. & RAQUEL L. SCHECKEL	FEE, TLE	0.087		0.087	0.029	
42	ROBERT S. H. & JEAN M. HANSEN	FEE, TLE	0.207		0.207	0.064	
43	JACOB & AMELIA BRESEE, AS INTERESTS APPEAR	FEE	0.027		0.027		
44	GERALD L. K. & MARIE A. KARWOWSKI	FEE, TLE	0.658	0.870	1.528	0.057	
45	LILLIAN C. SKEWES, ET AL	FEE, TLE	1.231	0.084	1.315	0.042	
46	THOMAS B. A. & MARGURITE L. ALDRICH	FEE, TLE	0.055	0.091	0.146	0.013	
47	DAVID F. B. & DIANE S. BECK	FEE, TLE	0.293		0.293	0.076	
48	RICHARD C. H. & ELIZABETH T. HANSEN	FEE, TLE	0.185		0.185	0.100	
49	PATRICK A. R. JR. & JUNE G. ROGERS	FEE, TLE	0.106		0.106	0.060	
50	DARLENE PHILBRICK & SAMANTHA PHILBRICK	TLE				0.065	

UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	AT&T WISCONSIN	ROR
101	WE ENERGIES-ELEC	ROR
106	TIME WARNER	ROR



LINE	BEARING	DISTANCE
L1	S00°05'23"W	266.73'
L2	S23°02'56"E	48.23'
L3	S89°41'02"E	261.11'
L4	S00°18'58"W	15.00'
L5	S00°05'23"W	174.61'
L6	S21°42'42"E	26.93'
L7	S00°05'23"W	50.00'
L8	S21°53'35"W	26.92'
L9	S00°05'23"W	450.00'
L10	N89°54'37"W	25.00'
L11	S00°05'23"W	135.57'
L12	S25°40'50"E	38.26'
L13	S89°41'45"E	83.45'
L14	S78°28'24"E	50.93'
L15	S00°05'23"W	24.75'
L16	S00°05'23"W	24.75'
L17	S00°55'17"W	36.39'
L18	S00°55'17"W	29.62'
L19	N89°41'02"W	249.04'

NOTES:

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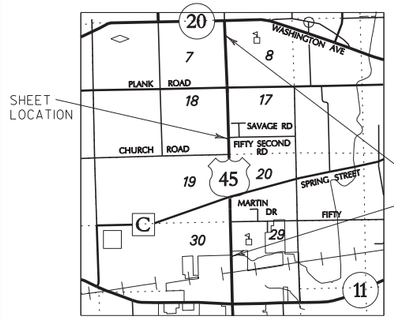
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION.

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

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 45	PROJECT T 058-1(6)	VARIES	1952
CHURCH ROAD	CSM 2526	66'	2003
52ND ROAD	PROJECT T 058-1(6)	49.5'	1952
SAVAGE ROAD	DOC.1345051 V.2081 P.210 DOC.978940 V.1323 P.360	66'	1991 1976

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2360779, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

LOCATION MAP



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I, GREGORY A. KUNZ, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2430-06-20 - 4.05 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GREGORY A. KUNZ S-1346 WAUKESHA, WI LAND SURVEYOR

09/17/2013
GREGORY A. KUNZ — DATE
AGENT FOR R.A. SMITH NATIONAL
R.L.S. NUMBER 1346

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

ROBERT L. DUFFECK DATE: 9/17/13

VOLUME 1 PAGE 259

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2430-06-20 4.05
AMENDMENT NO:

DOCUMENT # 2365560
RACINE COUNTY REGISTER OF DEEDS
September 30, 2013 1:07 PM
TYSON FETTES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

FILE NAME : S:\5165104\Plat\040405_rp.DGN
APPRAISAL PLAT DATE :
PLOT DATE : 9/26/2013
PLOT BY : Gak
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
CONSTRUCTION: 2430-06-70, R/W PLAT: 2430-06-20 4.05

TRANSPORTATION PROJECT PLAT NO:2430-06-20- 4.06 AMEND. NO.1

AMENDS TPP 2430-06-20-4.06 RECORDED IN RACINE COUNTY AS DOCUMENT NO.2365563
BY REVISING PARCEL 51

THAT PART OF PARCEL 1, AND PARCEL 2, CSM 1373, ALSO THAT PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 AND THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 18, AND THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 AND THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 17, ALL OF TOWNSHIP 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45 COLONY AVENUE 7TH AVENUE - STH 20 RACINE COUNTY

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

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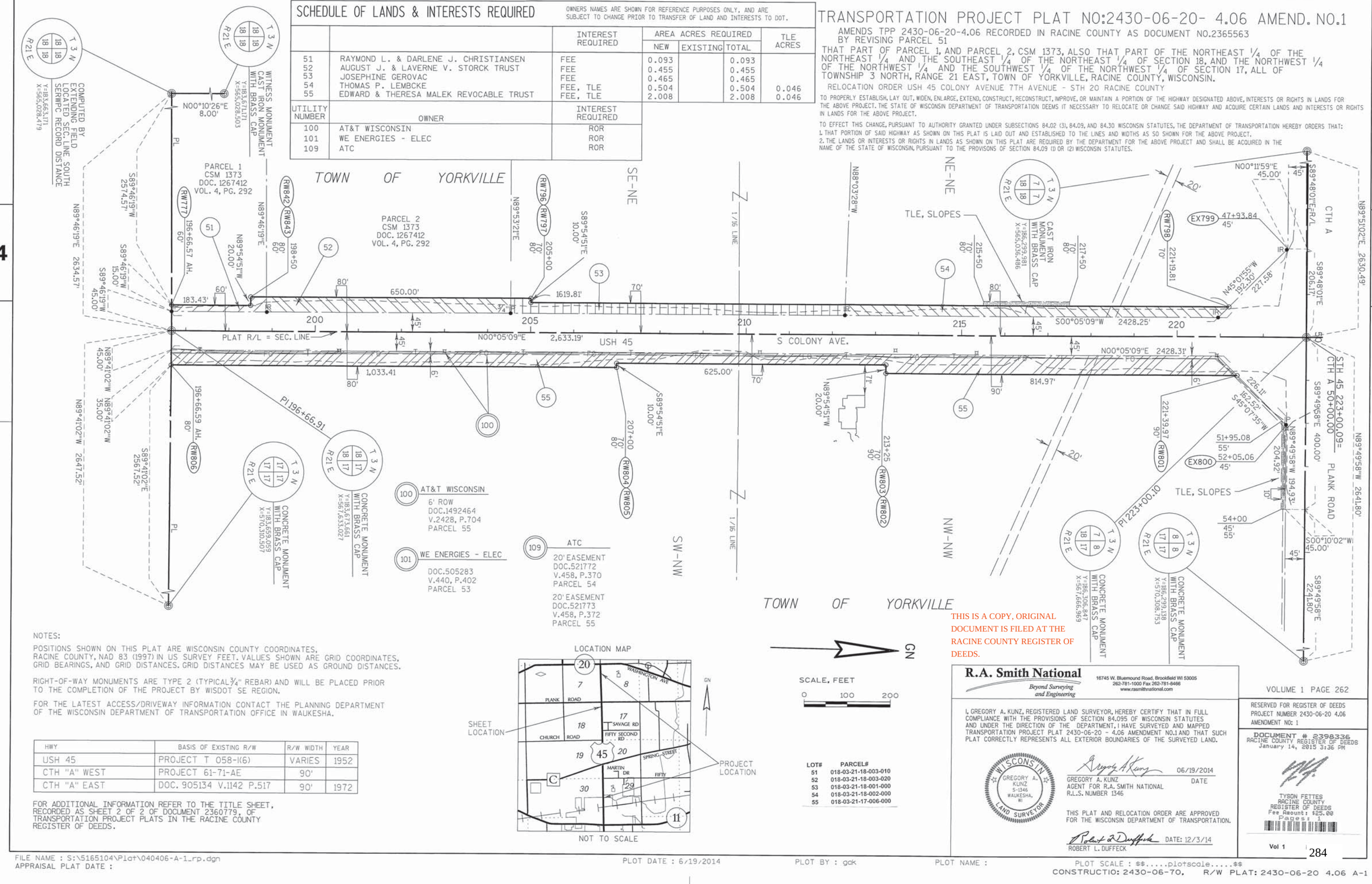
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO DOT.

		INTEREST REQUIRED	AREA ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
51	RAYMOND L. & DARLENE J. CHRISTIANSEN	FEE	0.093		0.093	
52	AUGUST J. & LAVERNE V. STORCK TRUST	FEE	0.455		0.455	
53	JOSEPHINE GEROVAC	FEE	0.465		0.465	
54	THOMAS P. LEMBCKE	FEE, TLE	0.504		0.504	0.046
55	EDWARD & THERESA MALEK REVOCABLE TRUST	FEE, TLE	2.008		2.008	0.046

UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	AT&T WISCONSIN	ROR
101	WE ENERGIES - ELEC	ROR
109	ATC	ROR



NOTES:

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RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION.

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

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 45	PROJECT T 058-1(6)	VARIES	1952
CTH "A" WEST	PROJECT 61-71-AE	90'	
CTH "A" EAST	DOC. 905134 V.1142 P.517	90'	1972

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2360779, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

LOCATION MAP

NOT TO SCALE

LOT#	PARCEL#
51	018-03-21-18-003-010
52	018-03-21-18-003-020
53	018-03-21-18-001-000
54	018-03-21-18-002-000
55	018-03-21-17-006-000

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

R.A. Smith National
Beyond Surveying and Engineering
16745 W. Bluemound Road, Brookfield WI 53005
262-781-1000 Fax 262-781-8466
www.rasmithnational.com

I, GREGORY A. KUNZ, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2430-06-20 - 4.06 AMENDMENT NO.1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GREGORY A. KUNZ S-1346 WAUKESHA, WI LAND SURVEYOR

Gregory A. Kunz 06/19/2014
GREGORY A. KUNZ DATE
AGENT FOR R.A. SMITH NATIONAL
R.L.S. NUMBER 1346

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

Robert L Duffeck DATE: 12/3/14
ROBERT L. DUFFECK

VOLUME 1 PAGE 262

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2430-06-20 4.06
AMENDMENT NO: 1

DOCUMENT # 2398336
RACINE COUNTY REGISTER OF DEEDS
January 14, 2015 3:36 PM

TYSON FETTES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

Vol 1

FILE NAME : S:\5165104\Plat\040406-A-1_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 6/19/2014
PLOT BY : gak
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
CONSTRUCTIO: 2430-06-70, R/W PLAT: 2430-06-20 4.06 A-1

TRANSPORTATION PROJECT PLAT NO: 2430-06-20 - 4.07 - AMENDMENT NO.1

AMENDS TPP SHEET 2430-06-20-4.07 RECORDED IN RACINE COUNTY AS DOCUMENT NO.2363955 BY REVISING PARCELS 56 & 57 AND ADDING PARCEL 156.

THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 AND THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 7, AND THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 AND THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 8, ALL OF TOWNSHIP 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45 COLONY AVENUE 7TH AVENUE - STH 20 RACINE COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

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

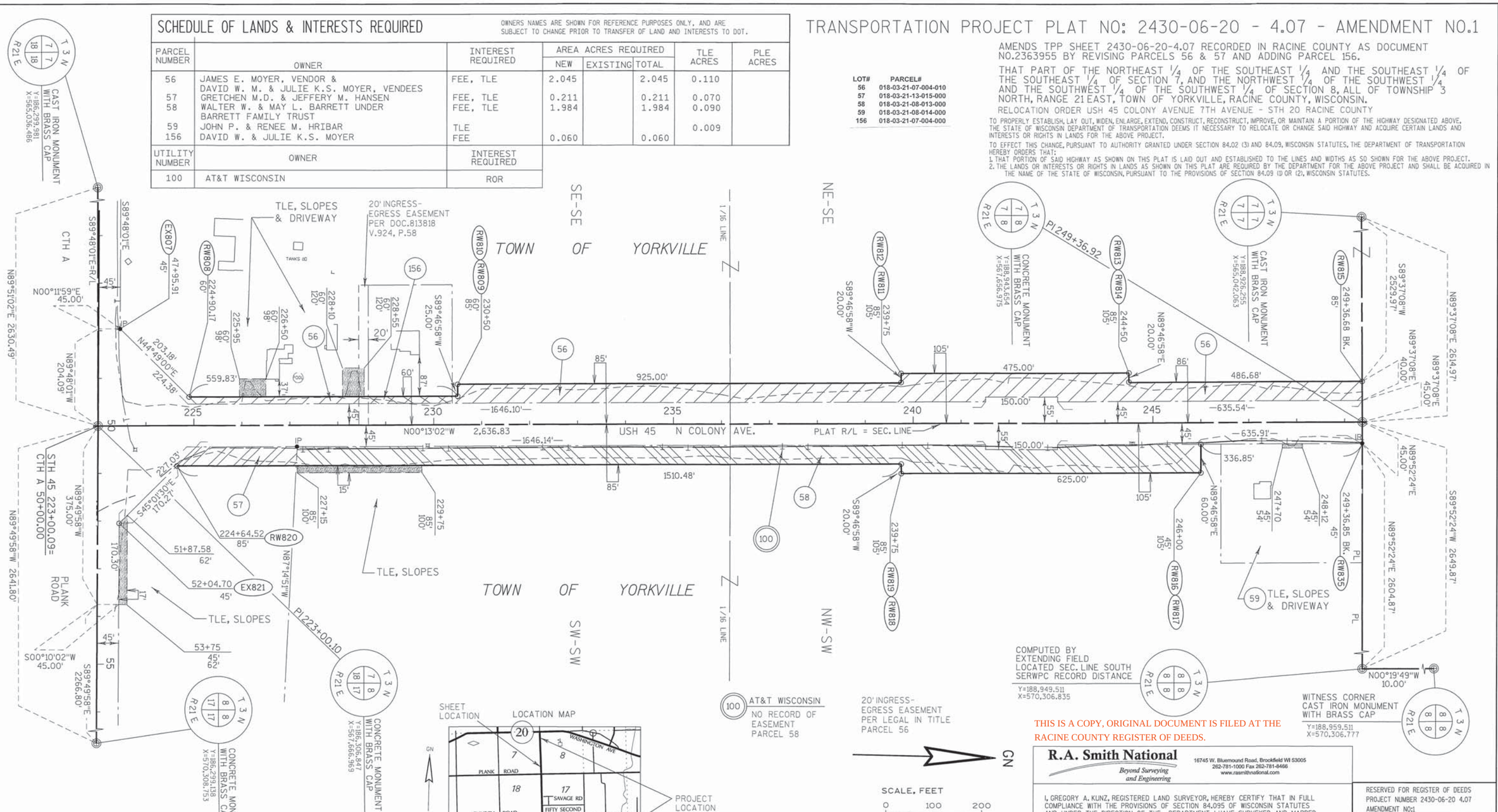
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO DOT.

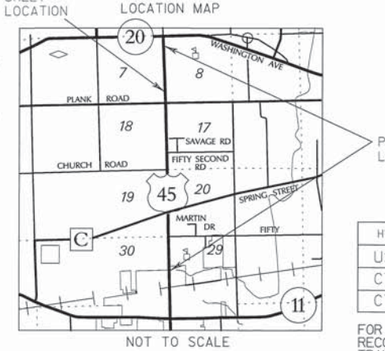
PARCEL NUMBER	OWNER	INTEREST REQUIRED	AREA ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES
56	JAMES E. MOYER, VENDOR & DAVID W. M. & JULIE K.S. MOYER, VENDEES	FEE, TLE	2.045		2.045	0.110	
57	GRETCHEN M.D. & JEFFERY M. HANSEN	FEE, TLE	0.211		0.211	0.070	
58	WALTER W. & MAY L. BARRETT UNDER BARRETT FAMILY TRUST	FEE, TLE	1.984		1.984	0.090	
59	JOHN P. & RENEE M. HRIBAR	TLE				0.009	
156	DAVID W. & JULIE K.S. MOYER	FEE	0.060		0.060		

UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	AT&T WISCONSIN	ROR

LOT#	PARCEL#
56	018-03-21-07-004-010
57	018-03-21-13-015-000
58	018-03-21-08-013-000
59	018-03-21-08-014-000
156	018-03-21-07-004-000



SHEET LOCATION



NOT TO SCALE

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, RACINE COUNTY, NAD 83 (1997) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES. GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION.

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

HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 45	PROJECT T 058-1(6)	VARIES	1952
CTH "A" WEST	PROJECT 61-71-AE	90'	
CTH "A" EAST	DOC.904730 V.1141 P.552	90'	1972

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2360779, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

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16745 W. Bluemound Road, Brookfield WI 53005
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I, GREGORY A. KUNZ, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2430-06-20 - 4.07 - AMENDMENT NO.1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GREGORY A. KUNZ S-1346 WAUKESHA, WI LAND SURVEYOR

Gregory A Kunz 12/03/2014
GREGORY A. KUNZ DATE
AGENT FOR R.A. SMITH NATIONAL
R.L.S. NUMBER 1346

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

Robert L Duffeck DATE: 12/1/14
ROBERT L. DUFFECK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2430-06-20 4.07
AMENDMENT NO:1

DOCUMENT # 2398337
RACINE COUNTY REGISTER OF DEEDS
January 14, 2015 3:36 PM

TYSON FETTES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

Vol 1

TRANSPORTATION PROJECT PLAT NO: 2430-06-20 - 4.08 - AMENDMENT NO.1

AMENDS TPP SHEET 2430-06-20-4.08 RECORDED IN RACINE COUNTY AS DOCUMENT NO. 2365564 BY ADDING PARCEL 166 AND REVISING PARCLS: 65, & 67

THAT PART OF PARCEL 1, CSM 1158, ALSO THAT PART OF THE NORTHEAST 1/4OF THE NORTHEAST 1/4AND THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 7, AND THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 AND THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 8, ALL OF TOWNSHIP 3 NORTH, RANGE 21 EAST, TOWN OF YORKVILLE, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER USH 45 COLONY AVENUE 7TH AVENUE - STH 20 RACINE COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09, AND 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDER THAT:

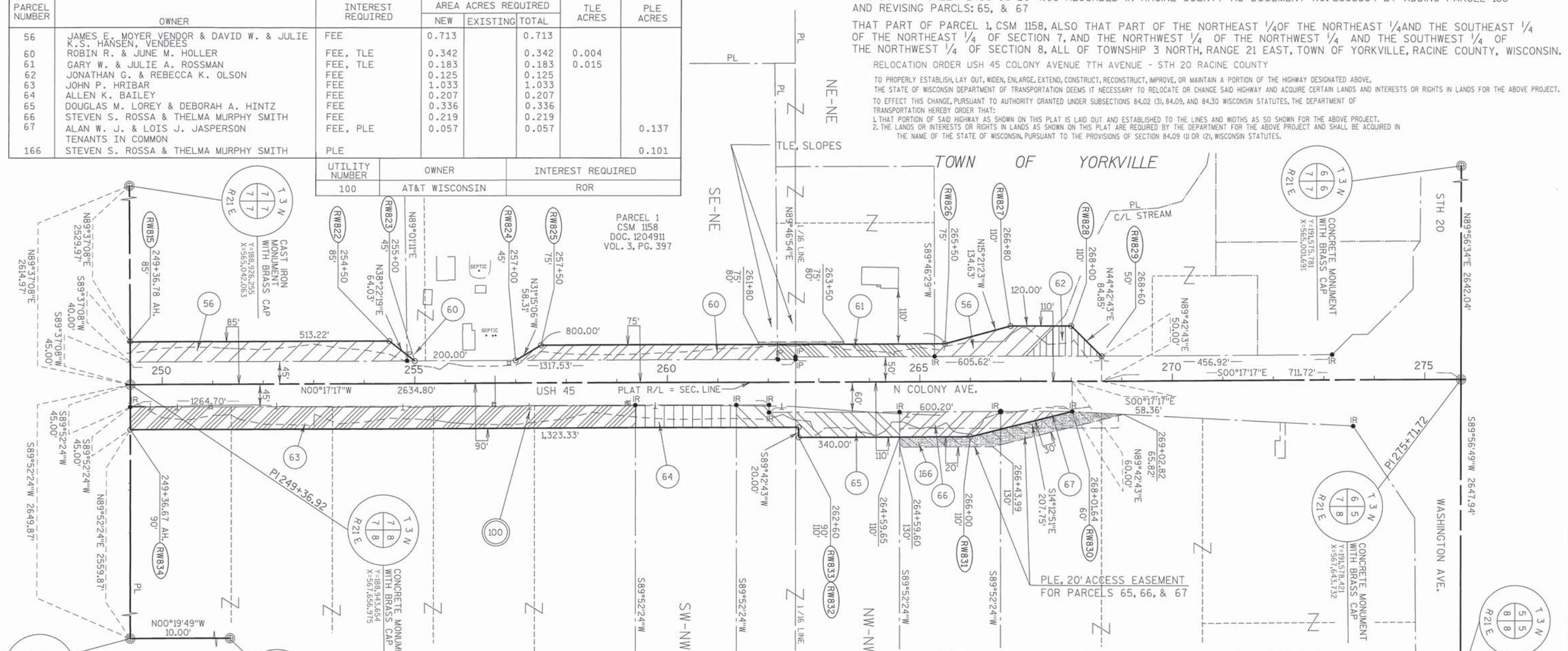
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE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

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO DOT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	AREA ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES
56	JAMES E. MOYER VENDOR & DAVID W. & JULIE K.S. HANSEN, VENDEES	FEE	0.713		0.713		
60	ROBIN R. & JUNE M. HOLLER	FEE, TLE	0.342		0.342	0.004	
61	GARY W. & JULIE A. ROSSMAN	FEE, TLE	0.183		0.183	0.015	
62	JONATHAN G. & REBECCA K. OLSON	FEE	0.125		0.125		
63	JOHN P. HRIBAR	FEE	1.033		1.033		
64	ALLEN K. BAILEY	FEE	0.207		0.207		
65	DOUGLAS M. LOREY & DEBORAH A. HINTZ	FEE	0.336		0.336		
66	STEVEN S. ROSSA & THELMA MURPHY SMITH	FEE	0.219		0.219		
67	ALAN W. J. & LOIS J. JASPERSON TENANTS IN COMMON	FEE, PLE	0.057		0.057		0.137
166	STEVEN S. ROSSA & THELMA MURPHY SMITH	PLE					0.101

UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	AT&T WISCONSIN	ROR



HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
USH 45	PROJECT T 058-1(6)	VARIES	1952

LOT#	PARCEL#
56	018-03-21-07-004-010
60	018-03-21-07-004-001
61	018-03-21-07-002-000
62	018-03-21-07-003-000
63	018-03-21-08-012-010
	018-03-21-08-012-020
	018-03-21-08-012-030
	018-03-21-08-012-040
	018-03-21-08-012-050
64	018-03-21-08-012-060
65	018-03-21-08-012-070
66	018-03-21-08-012-080
67	018-03-21-08-012-090
	018-03-21-08-012-100
	018-03-21-08-012-110

100 AT&T WISCONSIN
NO RECORD OF EASEMENT PARCEL 63, 64, 65, 66

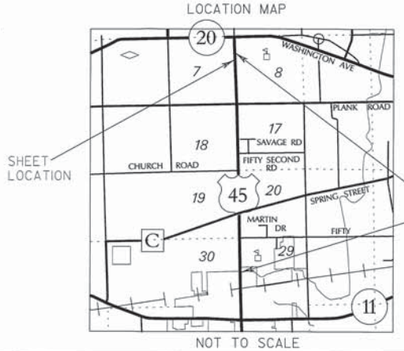
NON DESCRIPT EASEMENT DOC.2244912 & DOC.2248460 PARCEL 67

40' PERMANENT ACCESS EASEMENT DOC.2045406 FOR PARCELS 65, 66, & 67

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOCUMENT 2360779, OF TRANSPORTATION PROJECT PLATS IN THE RACINE COUNTY REGISTER OF DEEDS.

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

LOCATION MAP



NOT TO SCALE

SCALE, FEET
0 100 200

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, RACINE COUNTY, NAD 83 (1997) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USE AS GROUND DISTANCES

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISDOT SE REGION.

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I, GREGORY A. KUNZ, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2430-06-20 - 4.08 AMENDMENT NO.1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GREGORY A. KUNZ S-1346 WAUKESHA, WI LAND SURVEYOR

12/01/2014
GREGORY A. KUNZ — DATE
AGENT FOR R.A. SMITH NATIONAL
R.L.S. NUMBER 1346

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

ROBERT L. DUFFECK DATE: 12/1/14

VOLUME 1 PAGE 263

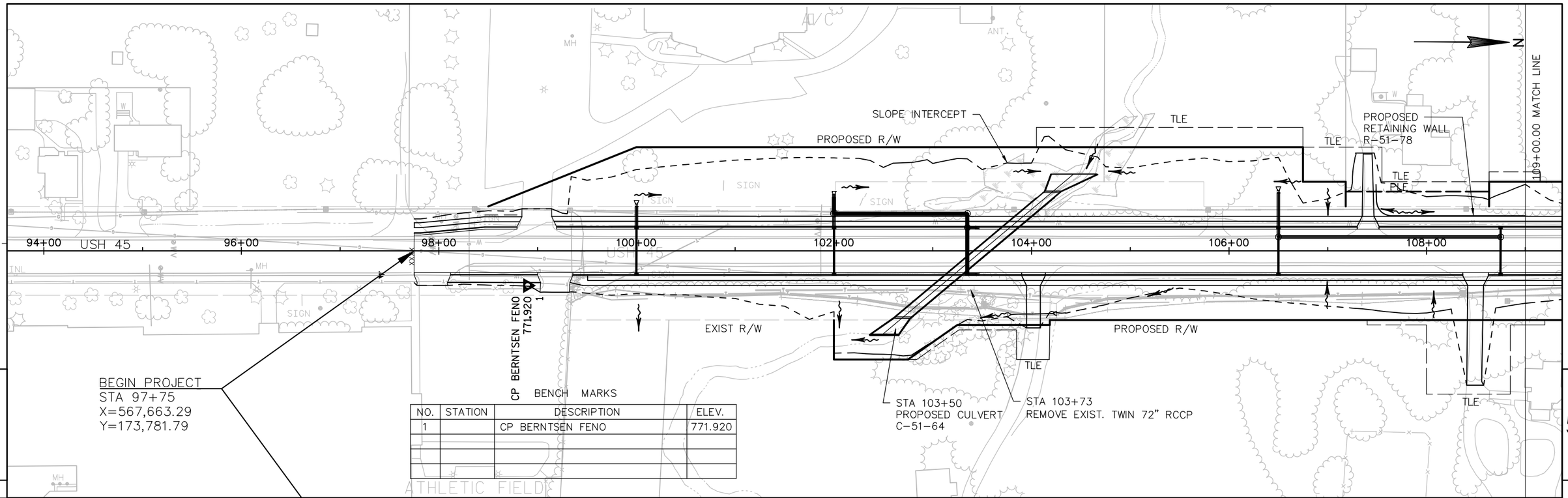
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2430-06-20 4.08
AMENDMENT NO: 1

DOCUMENT # 2398338
RACINE COUNTY REGISTER OF DEEDS
January 14, 2015 3:36 PM

TYSON FETTES
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

Vol 1 Pg 263

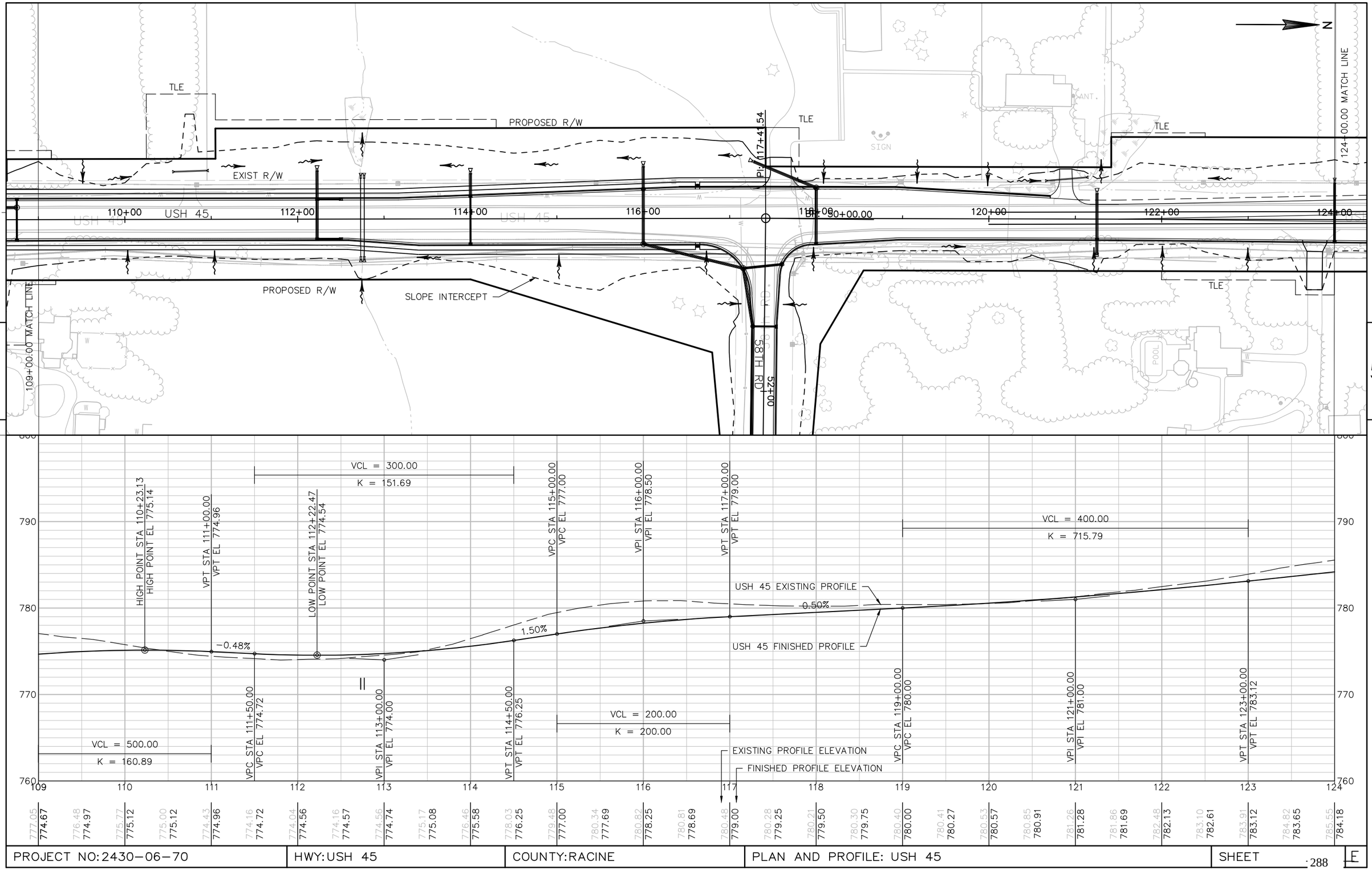
FILE NAME : S:\5165104\Plat\040408-A1_rp.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 12/1/2014
PLOT BY : gak
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
CONSTRUCTION: 2430-06-70, R/W PLAT: 2430-06-20 4.08A-1



NO.	STATION	DESCRIPTION	ELEV.
1		CP BERNTSEN FENO	771.920

765.10 766.84 768.51 770.16 771.83 773.25 774.04 774.53 774.54 774.38 774.13 774.03 773.26 773.47 772.23 772.71 771.21 771.75 769.94 770.59 768.70 769.32 767.66 768.19 766.83 767.31 766.17 766.69 765.58 766.33 765.42 766.22 765.56 766.38 765.93 766.79 766.77 767.46 767.90 768.39 769.33 769.58 771.34 770.81 773.46 771.89 775.22 772.82 776.43 773.59 777.09 774.21 777.05 774.67

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: USH 45	SHEET 287 E



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: USH 45	SHEET 288 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\05 - PLAN AND PROFILE\050100_PP USH45 100 SCALE - 1.DWG
PLOT DATE : 1/11/2017 1:50 PM
PLOT BY : ENGERSON, JONATHAN M
PLOT NAME : _____ PLOT SCALE : 1" = 100'_XREF
WISDOT/CADDS SHEET 44

STA 128+75 USH 45 RL
= STA 128+75.01 USH 45 NB ROUNDABOUT RL
= STA 128+75.07 USH 45 SB ROUNDABOUT RL

USH 45 SB ROUNDABOUT RL

USH 45 RL

USH 45 NB ROUNDABOUT RL

PROPOSED R/W

TLE

SLOPE INTERCEPT

EXIST R/W

CONTAMINATED SOIL, SEE SPECIAL PROVISIONS FOR HANDELING AND DISPOSAL

CANOPY

FILLER CAPS

SIGN

CTH C

USH 45

124+00 MATCH LINE

139+00.00 MATCH LINE

CP BERNTSEN FENO 790.010

CP BERNTSEN FENO 792.010

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
3		CP BERNSTEN FENO	790.010
4		CP BERNTSEN FENO	792.010

EXISTING PROFILE AT USH 45 RL

FINISHED PROFILE AT USH 45 RL

1.06%

VPC STA 127+00.00
VPC EL 787.35

VPI STA 129+50.00
VPI EL 790.00

VCL = 500.00
K = 895.84

EXISTING PROFILE ELEVATION

FINISHED PROFILE ELEVATION

EXISTING PROFILE AT USH 45 SB ROUNDABOUT RL

VPI STA 128+82.75
VPI EL 789.51

VPT STA 131+82.75
VPT EL 791.23

0.57%

VCL = 600.00
K = 1104.04

FINISHED PROFILE AT USH 45 SB ROUNDABOUT RL

STA 135+97.31
EL 793.60

CTH C ROUNDABOUT
STA 135+91 TO STA 137+81

-0.60%

EXISTING PROFILE AT USH 45 NB ROUNDABOUT RL

VPI STA 129+55.00
VPI EL 790.03

VPT STA 131+95.00
VPT EL 791.25

0.51%

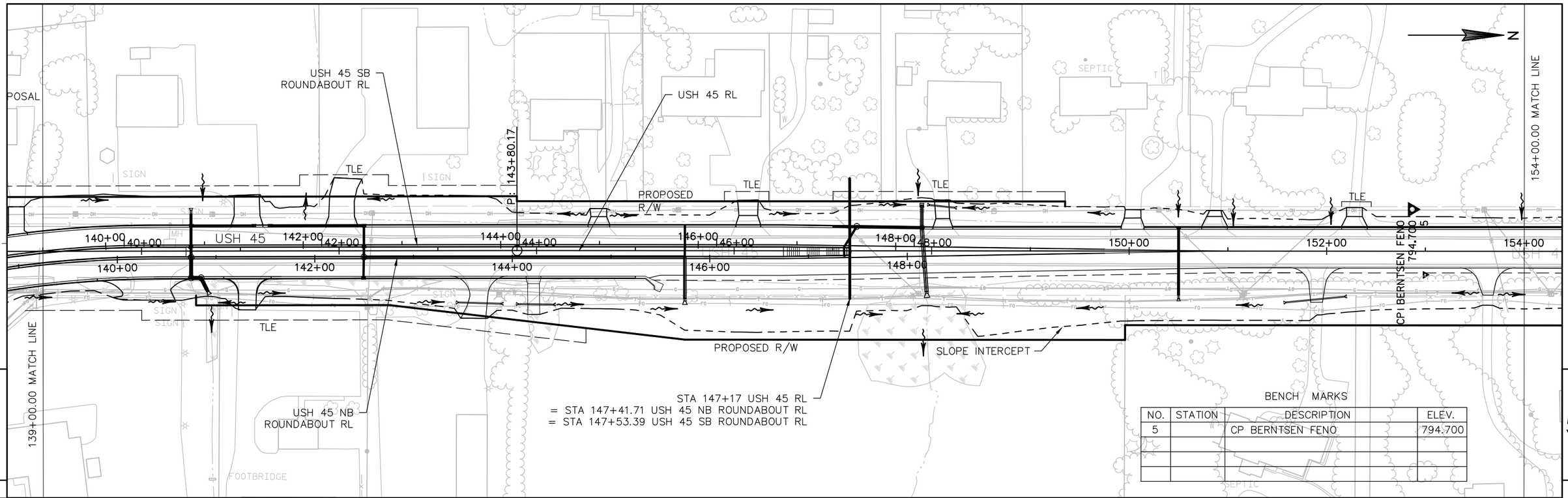
VCL = 480.00
K = 883.07

FINISHED PROFILE AT USH 45 NB ROUNDABOUT RL

CTH C ROUNDABOUT
STA 135+95 TO STA 137+73

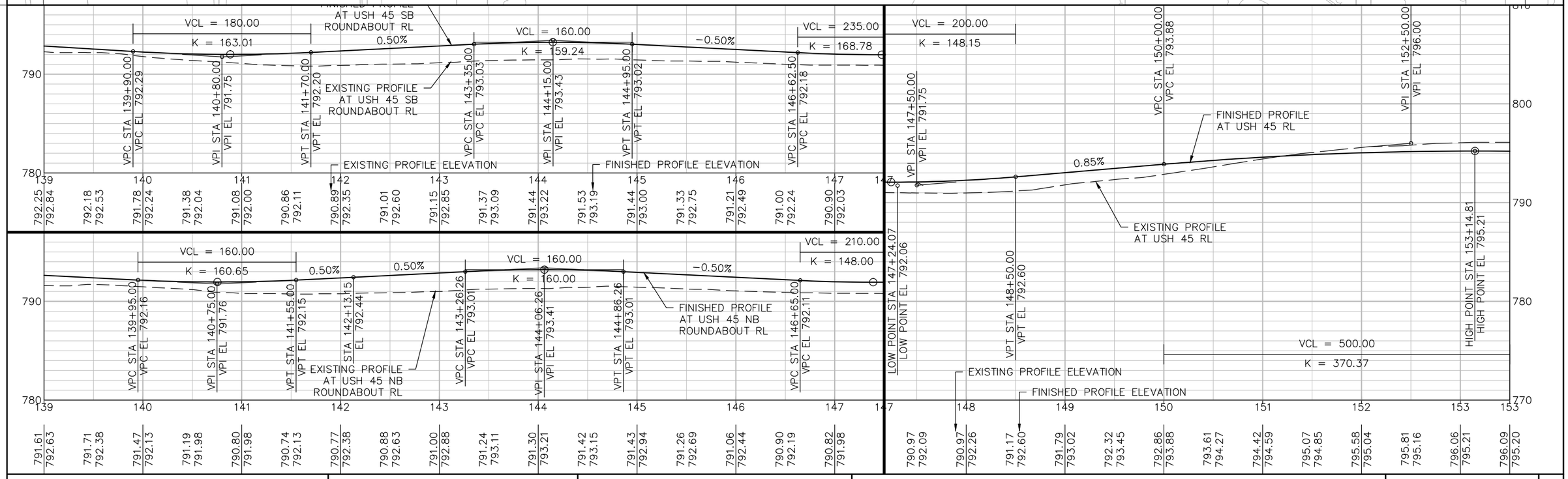
-0.50%

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: USH 45	SHEET 289 E



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
5		CP BERNTSEN FENO	794.700



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: USH 45	SHEET 290 E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
6		CP BERNTSEN FENO	778.420

N

ANT.
ANT.
SEPTIC
WALLS
WALLS
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SIGN

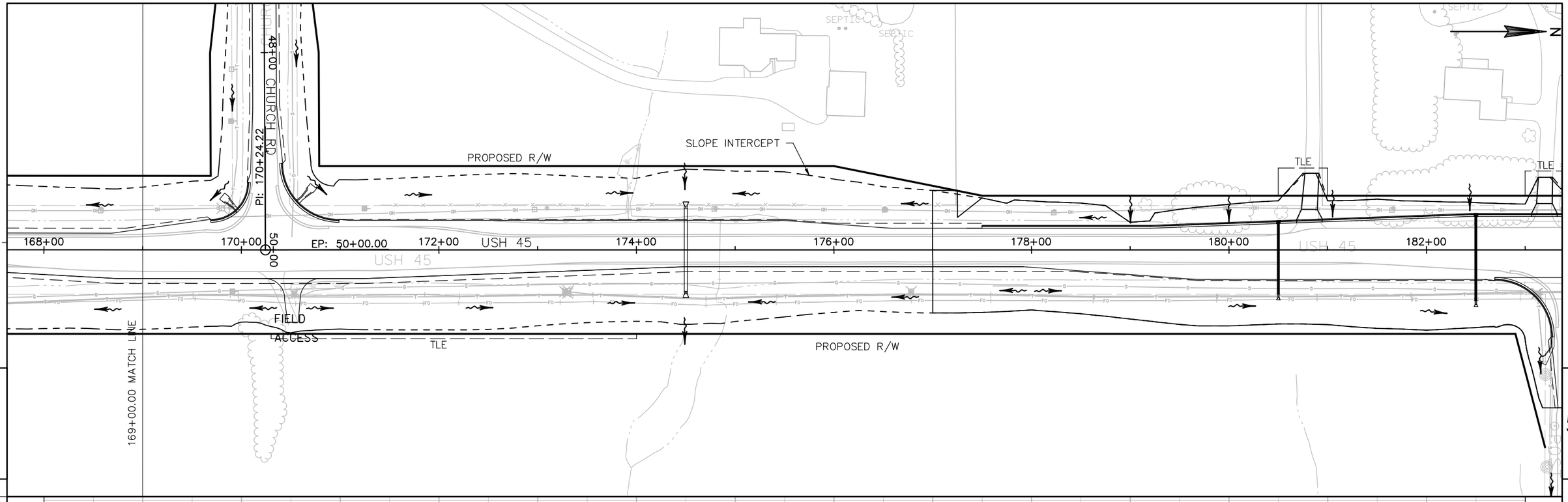
EXIST R/W
TLE
TLE
TLE
TLE
PROPOSED R/W
SLOPE INTERCEPT
PROPOSED R/W
FIELD ACCESS
CP BERNTSEN FENO 778.420
TLE
154+00.00 MATCH LINE
169+00.00 MATCH LINE
154+00
156+00
158+00
160+00
162+00
164+00
166+00
168+00
USH 45
USH 45
USH 45

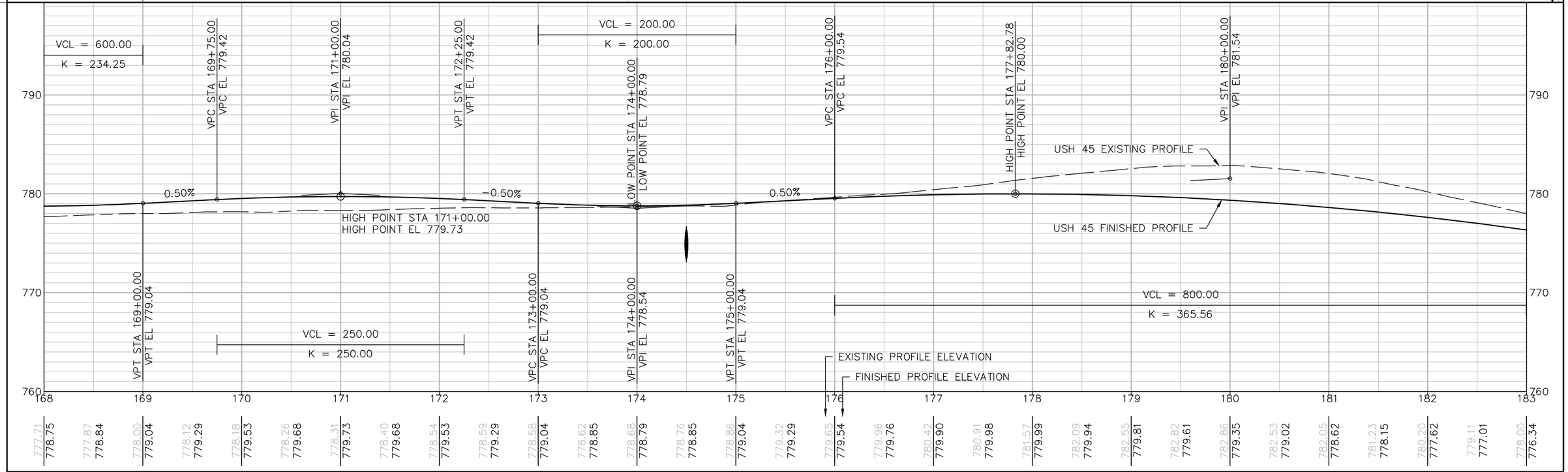
800
790
780
770
765

VPT STA 155+00.00
VPT EL 794.75
-0.50%
VPC STA 156+00.00
VPC EL 794.25
VPI STA 158+50.00
VPI EL 793.00
USH 45 EXISTING PROFILE
VPT STA 161+00.00
VPT EL 787.85
USH 45 FINISHED PROFILE
-2.06%
VPC STA 163+00.00
VPC EL 783.72
VPI STA 166+00.00
VPI EL 777.54
LOW POINT STA 167+82.87
LOW POINT EL 778.75
VPT STA 169+00.00
VPT EL 779.04
VCL = 500.00
K = 370.37
VCL = 500.00
K = 320.24
VCL = 600.00
K = 234.25
EXISTING PROFILE ELEVATION
FINISHED PROFILE ELEVATION

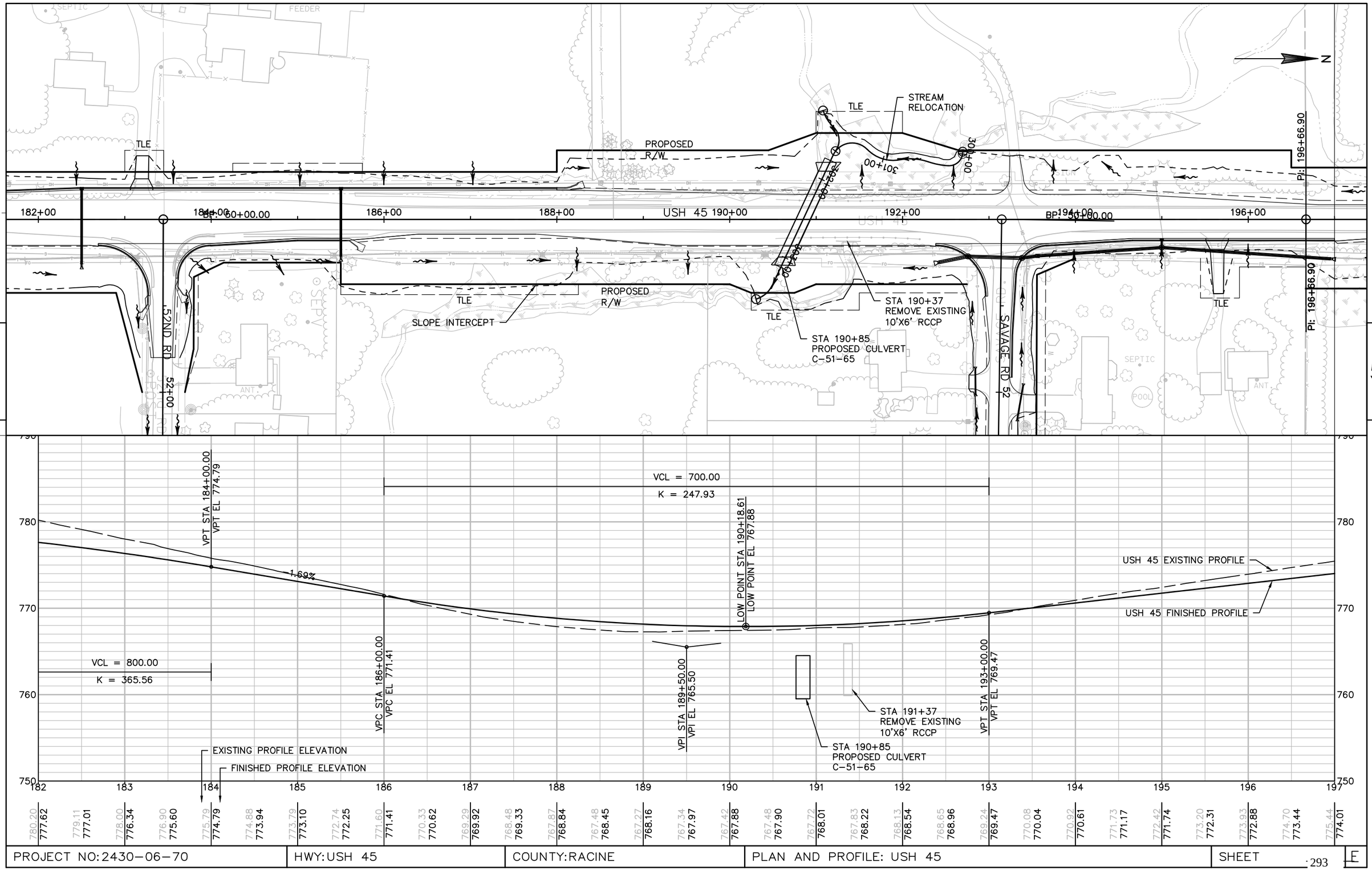
154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169

| | | |





PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: USH 45	SHEET 292



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: USH 45	SHEET 293 F

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\05 - PLAN AND PROFILE\050100_PP USH45 100 SCALE - 2.DWG
PLOT DATE : 1/11/2017 3:43 PM
PLOT BY : ENGERSON, JONATHAN M
PLOT NAME : _____PLOT SCALE : 1=100_XREF
WISDOT/CADDS SHEET 44

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
10		CP BERNTSEN FENO	783.070

N

PROPOSED R/W

FIELD ACCESS

198+00 200+00 USH 45 202+00 204+00 206+00 208+00 210+00 212+00

CP BERNTSEN FENO 783.070 ID

PI: 196+66.90

197+00.00 MATCH LINE

PROPOSED R/W

SLOPE INTERCEPT

5

5

790 780 770 760

VPI STA 208+50.00
VPI EL 787.06

USH 45 EXISTING PROFILE

USH 45 FINISHED PROFILE

1.13%

VPC STA 205+50.00
VPC EL 783.66

HIGH POINT STA 209+61.82
HIGH POINT EL 786.00

VPT STA 211+50.00
VPT EL 785.51

VCL = 600.00

K = 362.85

EXISTING PROFILE ELEVATION

FINISHED PROFILE ELEVATION

197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212

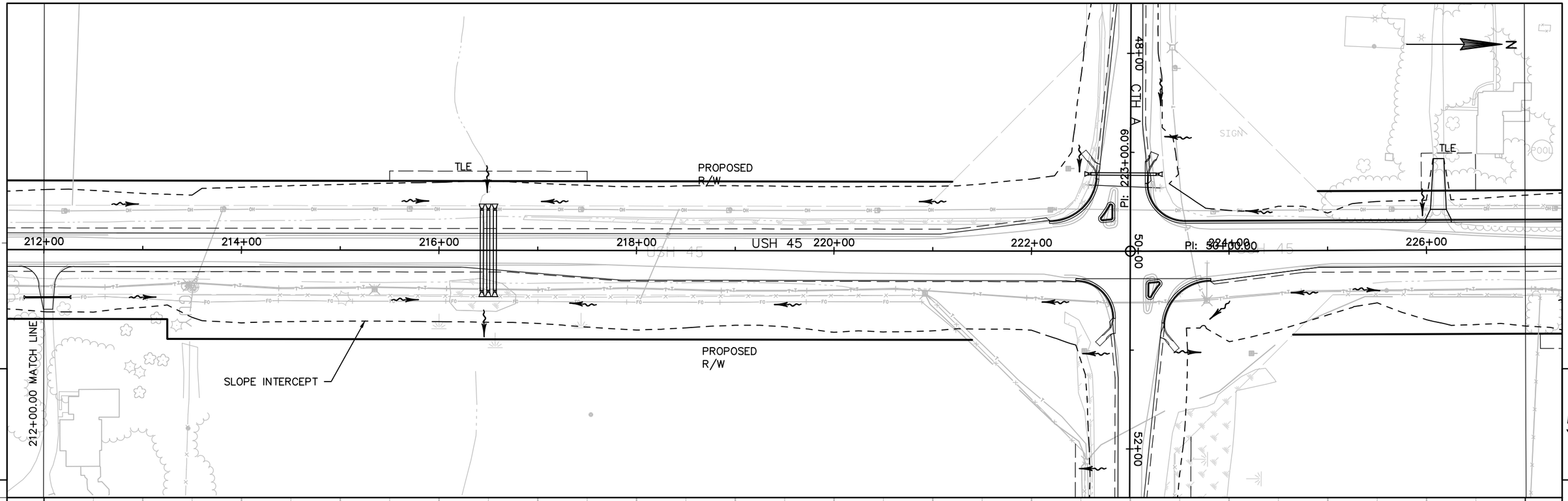
775.44	776.19	776.91	777.58	778.34	779.09	779.94	780.73	781.46	781.98	782.25	782.52	782.68	782.88	783.02	783.28	783.51	783.70	783.88	784.03	784.42	784.80	784.91	784.87	784.61
774.01	774.58	775.15	775.71	776.28	776.85	777.42	777.98	778.55	779.12	779.69	780.25	780.82	781.39	781.96	782.52	783.09	783.66	784.19	784.66	785.05	785.38	785.64	785.82	785.94

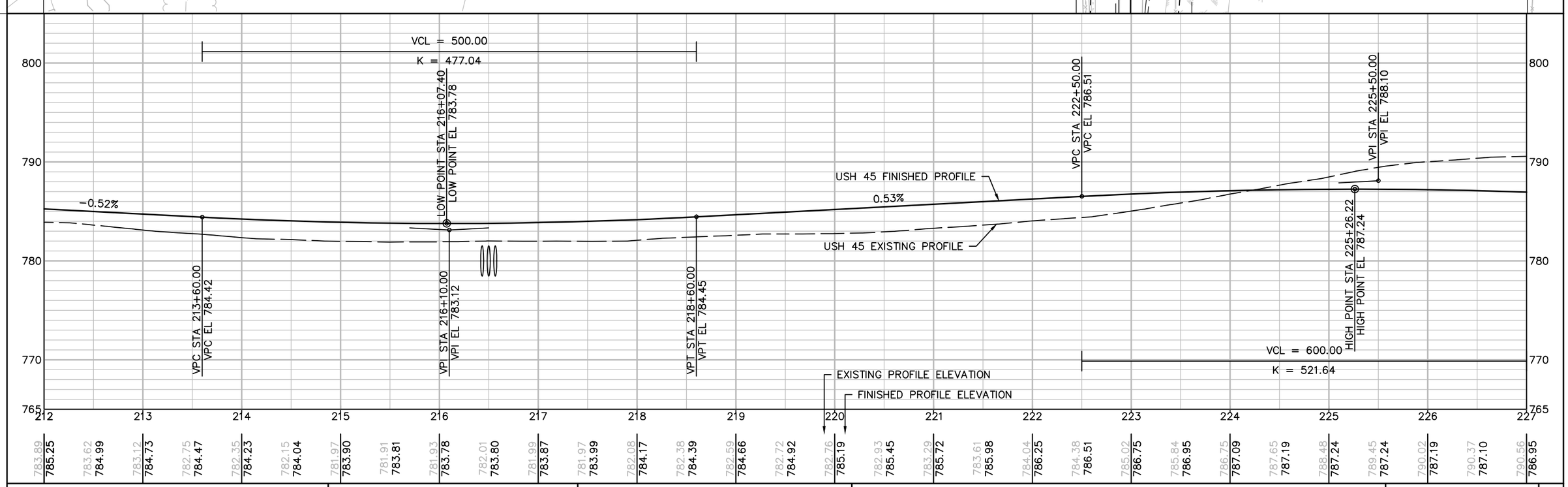
784.53	784.31	784.15	783.99	783.96	783.89																			
785.99	785.98	785.89	785.73	785.51	785.25																			

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: USH 45	SHEET	E

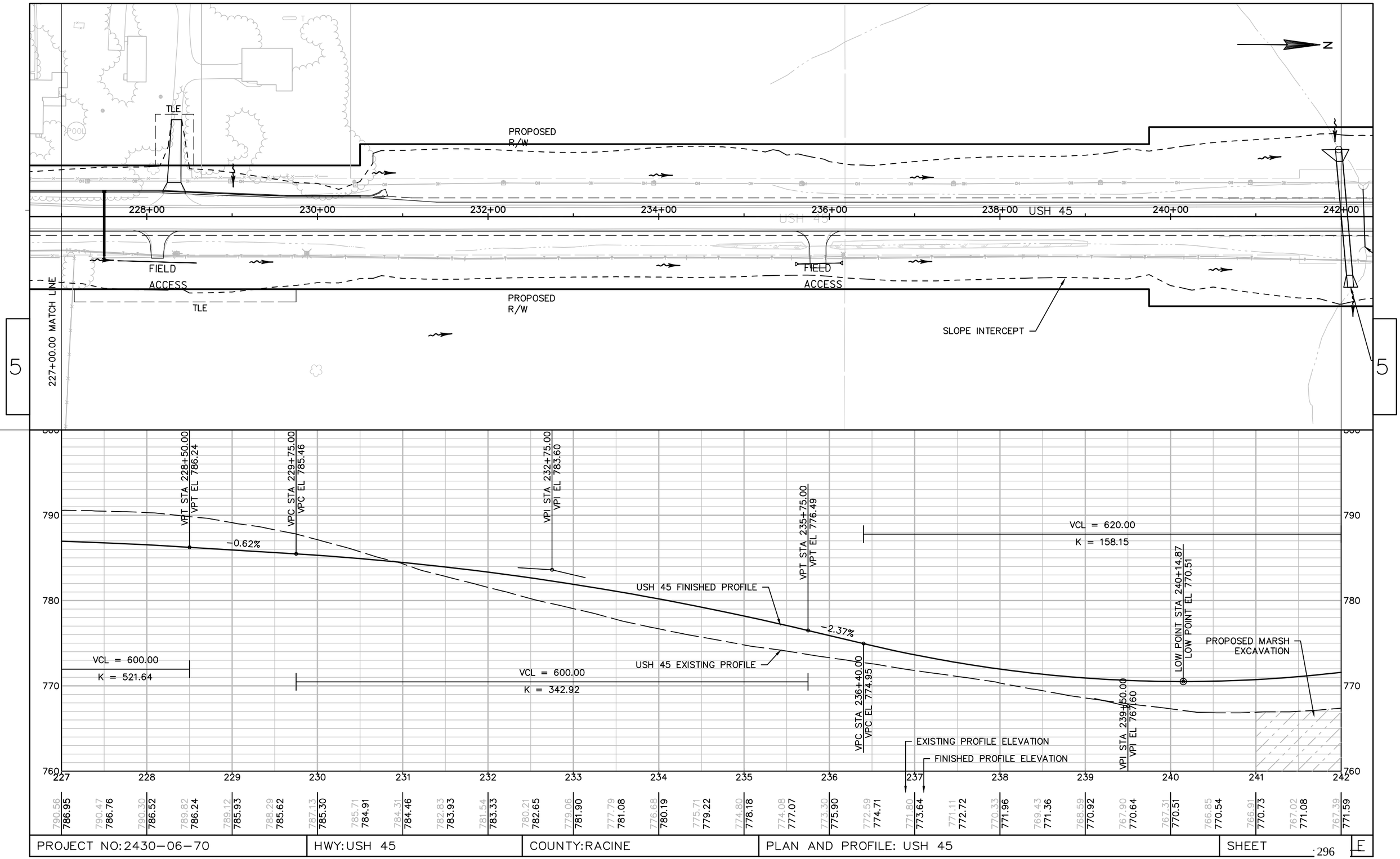
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\05 - PLAN AND PROFILE\050100_PP USH45 100 SCALE - 2.DWG PLOT DATE : 1/11/2017 3:43 PM PLOT BY : ENGERSON, JONATHAN M PLOT NAME : _____ PLOT SCALE : 1=100_XREF

WISDOT/CADDS SHEET 44





PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: USH 45	SHEET 295 F

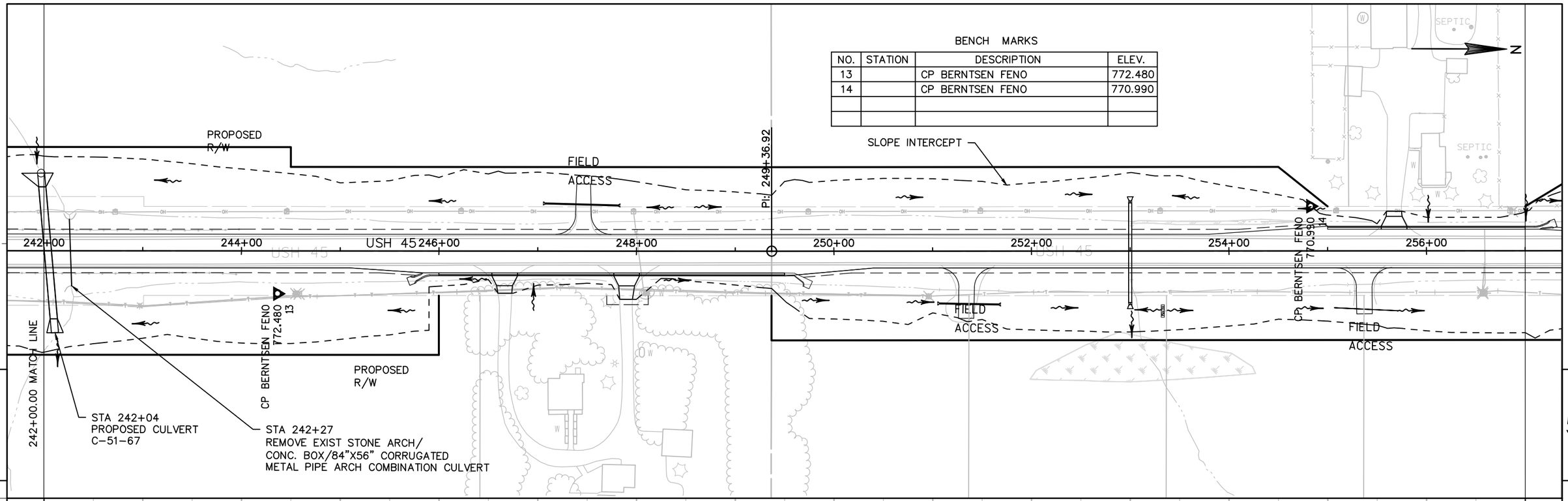


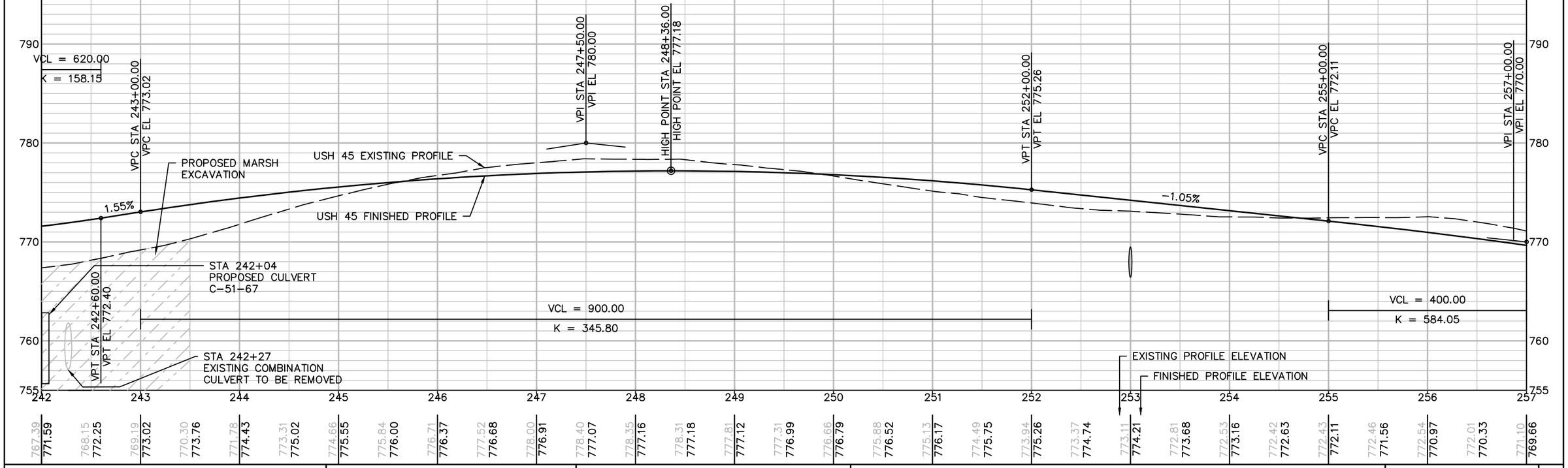
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: USH 45	SHEET 296 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\05 - PLAN AND PROFILE\050100_PP USH45 100 SCALE - 2.DWG
PLOT DATE : 1/11/2017 3:43 PM
PLOT BY : ENGERSON, JONATHAN M
PLOT NAME : _____ PLOT SCALE : 1=100_XREF

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
13		CP BERNTSEN FENO	772.480
14		CP BERNTSEN FENO	770.990





PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: USH 45	SHEET 297 E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
15		CP BERNTSEN FENO	770.530

PROPOSED R/W

FIELD ACCESS

258+00 USH 45 260+00 262+00 264+00 266+00 268+00 270+00 272+00

CP BERNTSEN FENO 770.530 15

257+00.00 MATCH LINE

PROPOSED R/W

SLOPE INTERCEPT

FIELD ACCESS

504

502

STREAM RELOCATION

PLE

STA 266+53
EXIST. CULVERT C-51-23
TO BE EXTENDED

FIELD ACCESS

END PROJECT
STA 268+40.00

VPI STA 257+00.00
VPI EL 770.00

VPT STA 259+00.00
VPT EL 766.52

VCL = 600.00
K = 137.12

VPC STA 261+99.97
VPC EL 761.31

LOW POINT STA 264+38.24
LOW POINT EL 759.24

STA 268+40.00
EL 765.07

USH 45 FINISHED PROFILE

-1.74%

2.64%

USH 45 EXISTING PROFILE

VPI STA 265+00.00
VPI EL 756.10

VPT STA 267+99.97
VPT EL 764.01

VCL = 400.00
K = 584.05

EXISTING PROFILE ELEVATION

FINISHED PROFILE ELEVATION

STA 266+53
EXIST. CULVERT C-51-23
TO BE EXTENDED

780 770 760 750

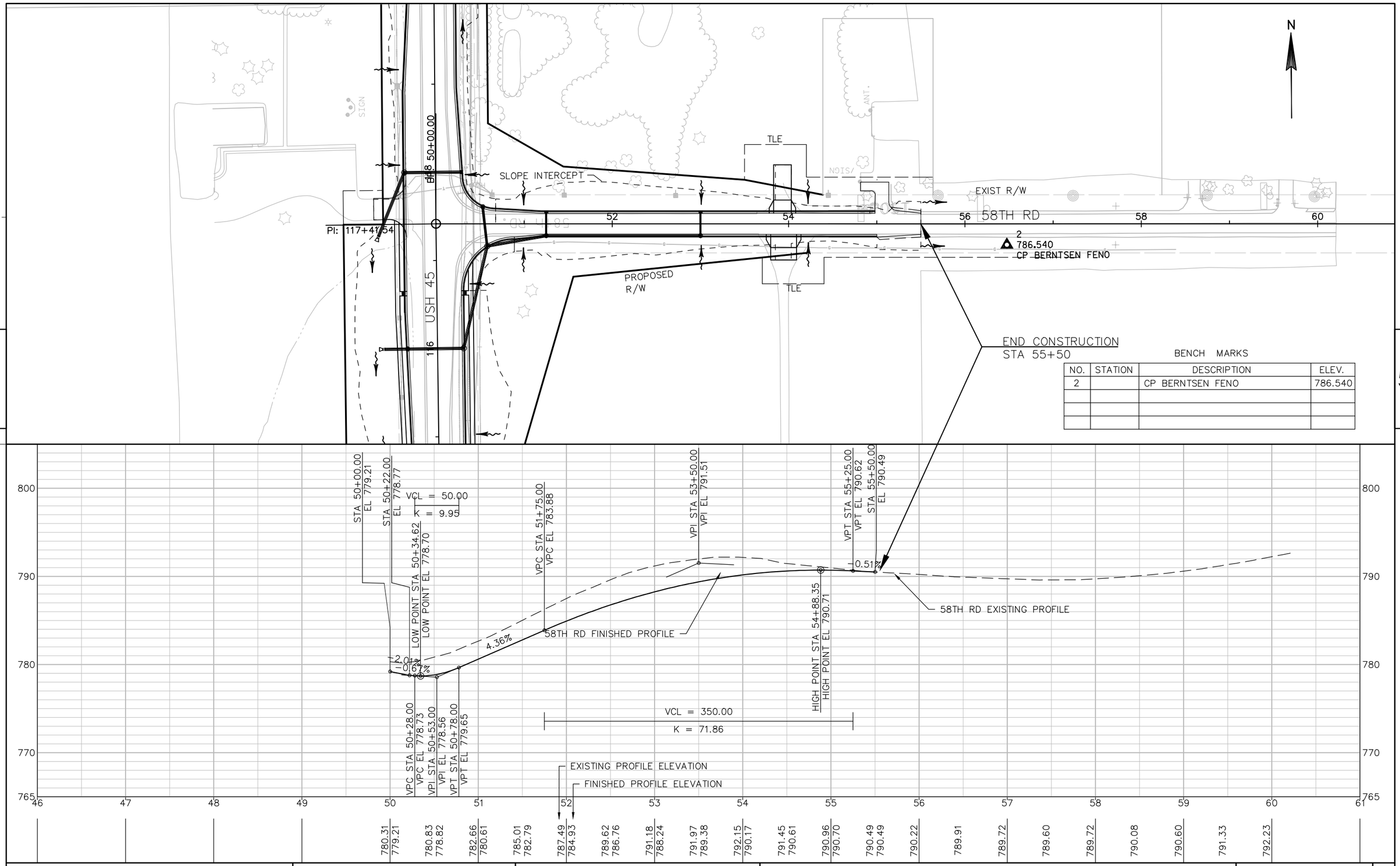
257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272

771.10	769.93	768.83	767.59	766.48	765.41	764.33	763.26	762.50	761.57	760.68	759.75	758.92	758.27	758.13	758.26	758.52	758.97	759.58	760.43	761.62	762.84	763.94	765.15	766.45	767.63	768.74	769.74	770.56	771.55	772.27
769.66	768.94	768.18	767.37	766.52	765.66	764.79	763.92	763.05	762.18	761.31	760.54	759.94	759.53	759.30	759.25	759.38	759.70	760.20	760.88	761.74	762.79	764.01								

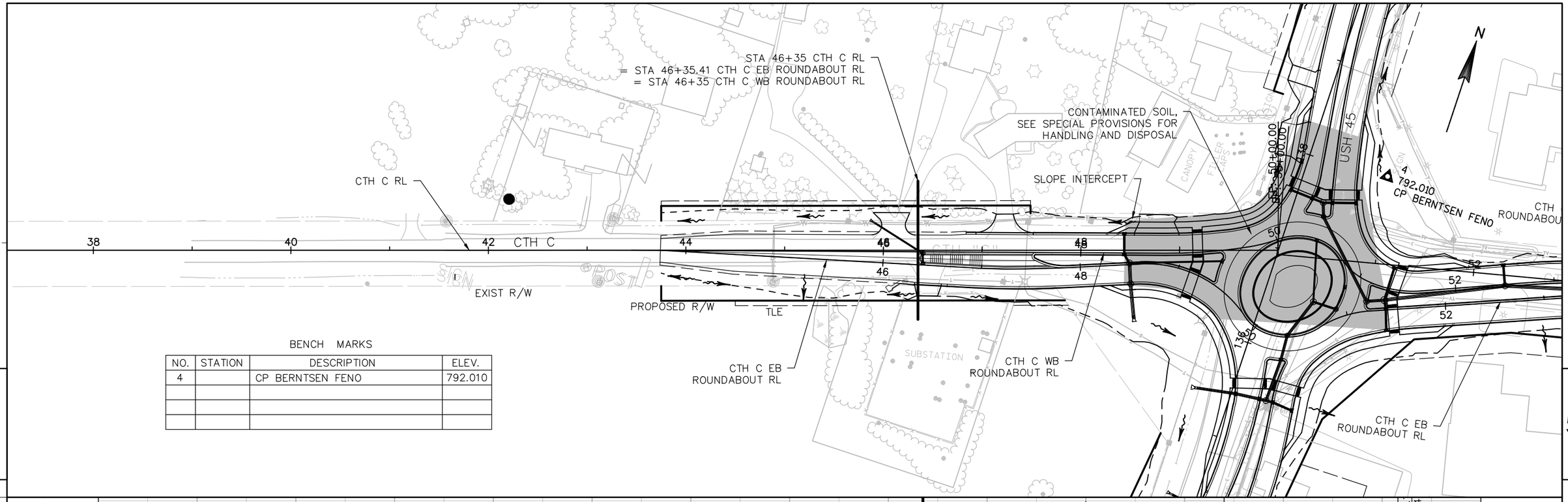
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: USH 45	SHEET

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\05 - PLAN AND PROFILE\050100_PP USH45 100 SCALE - 2.DWG PLOT DATE : 1/11/2017 3:44 PM PLOT BY : ENGERSON, JONATHAN M PLOT NAME : _____ PLOT SCALE : 1=100_XREF

WISDOT/CADDS SHEET 44

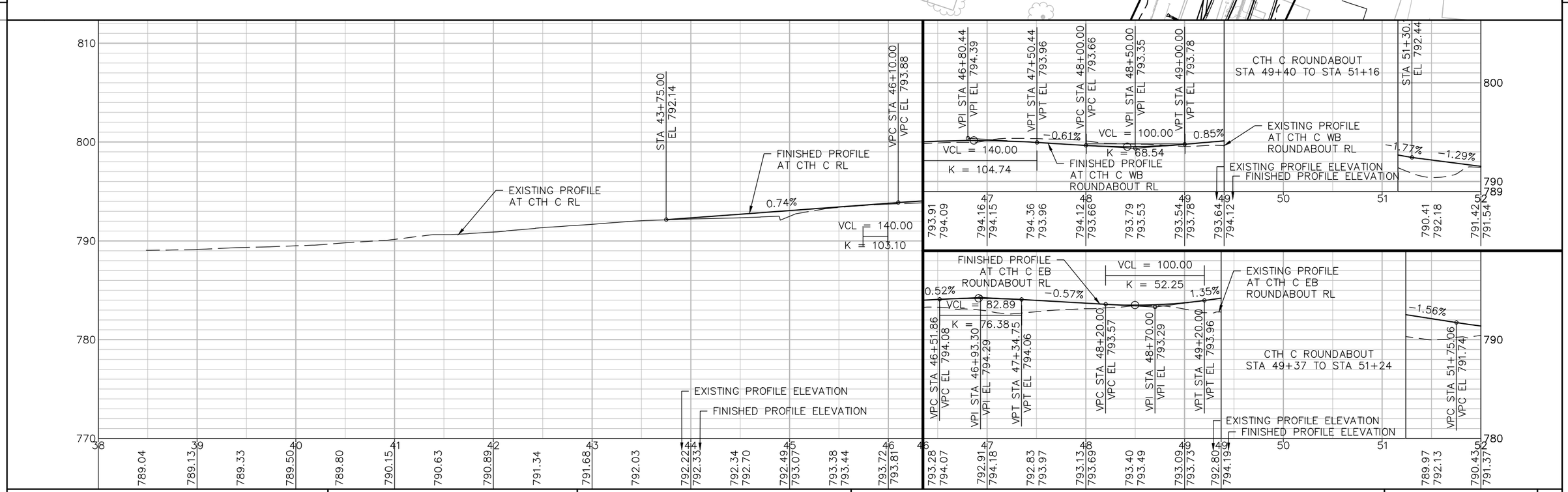


PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: 58TH ROAD	SHEET 299 E

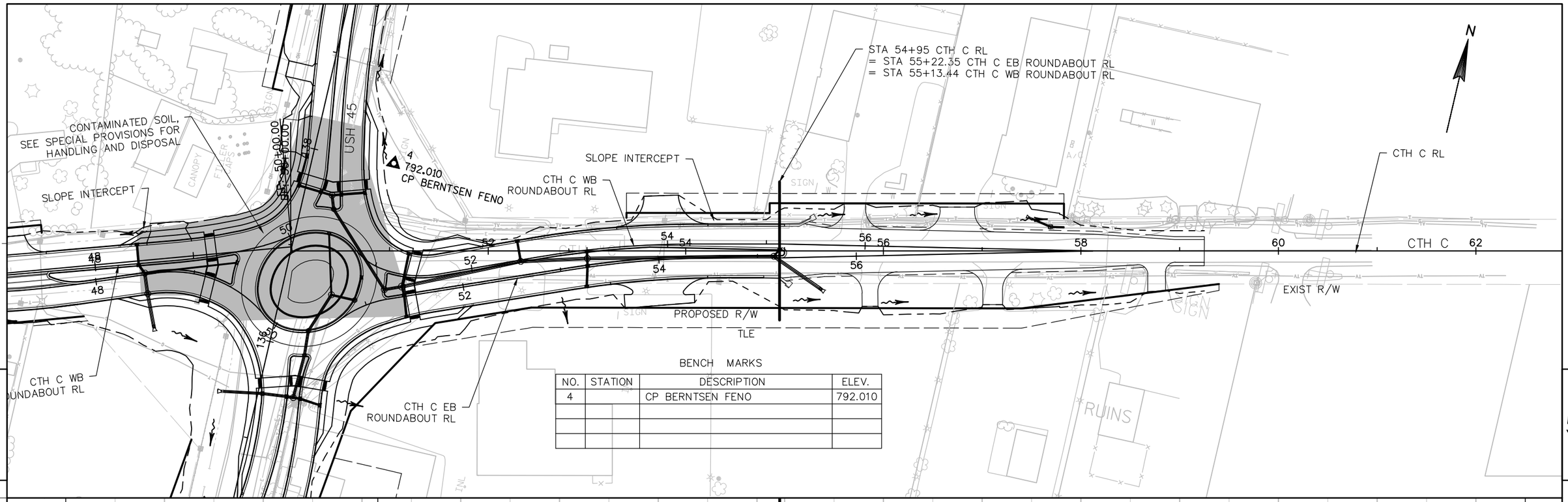


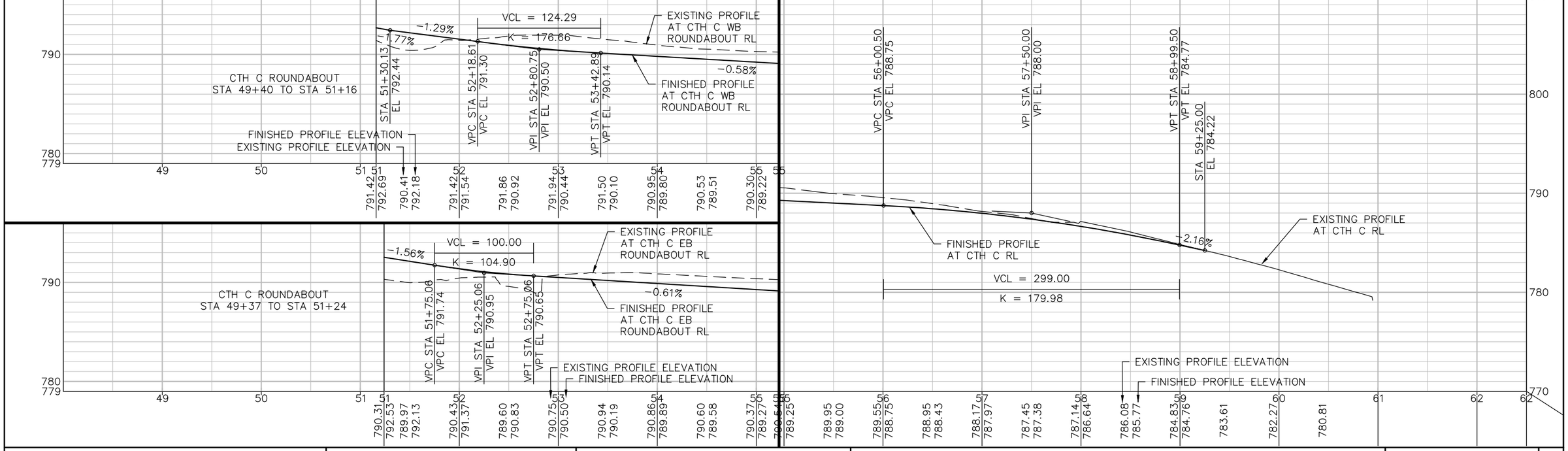
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
4		CP BERNTSEN FENO	792.010

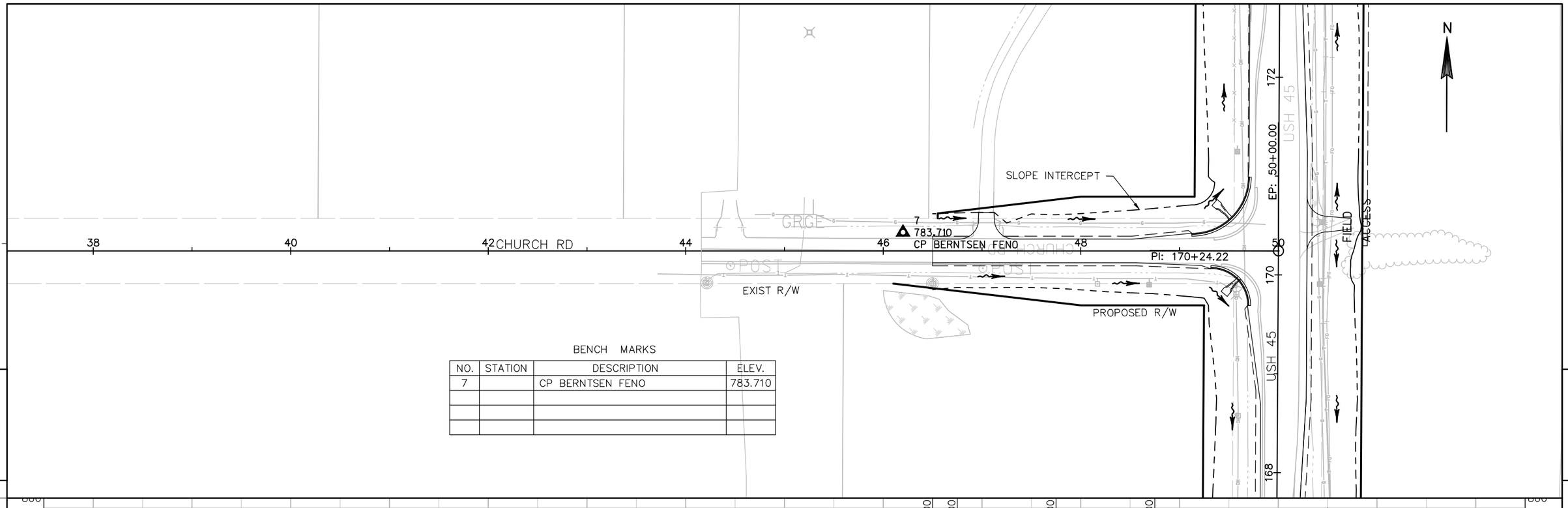


PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: CTH C	SHEET 300



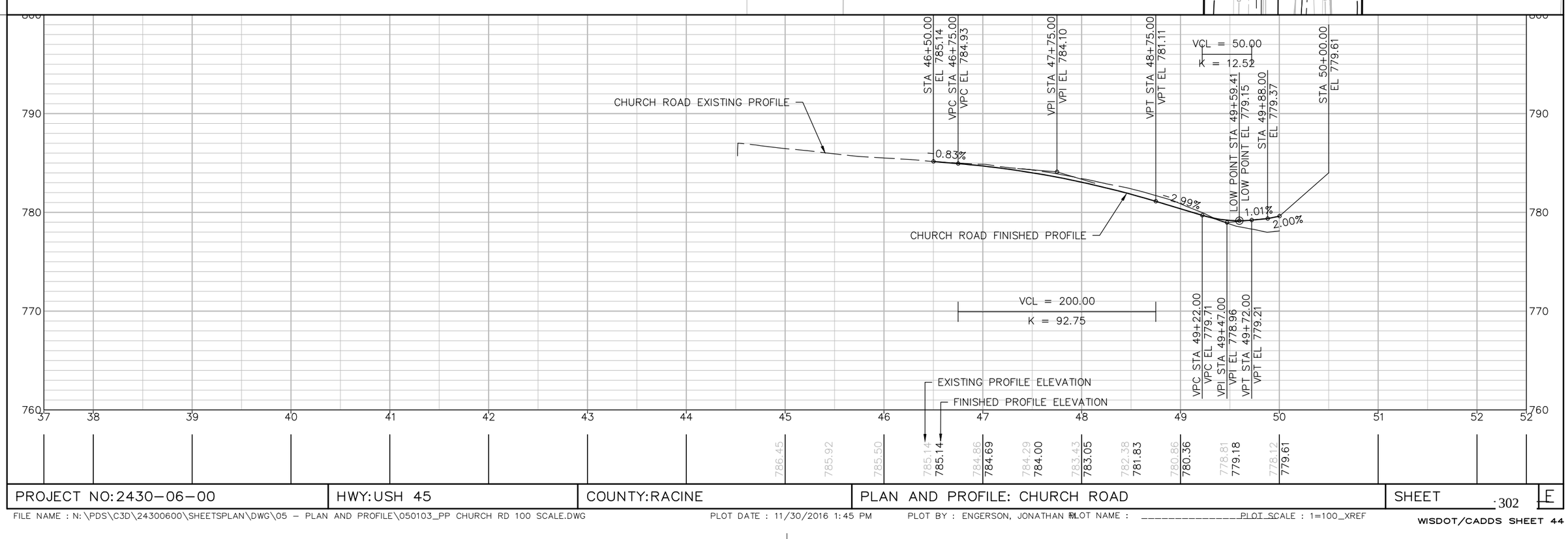


PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: CTH C	SHEET 301 E

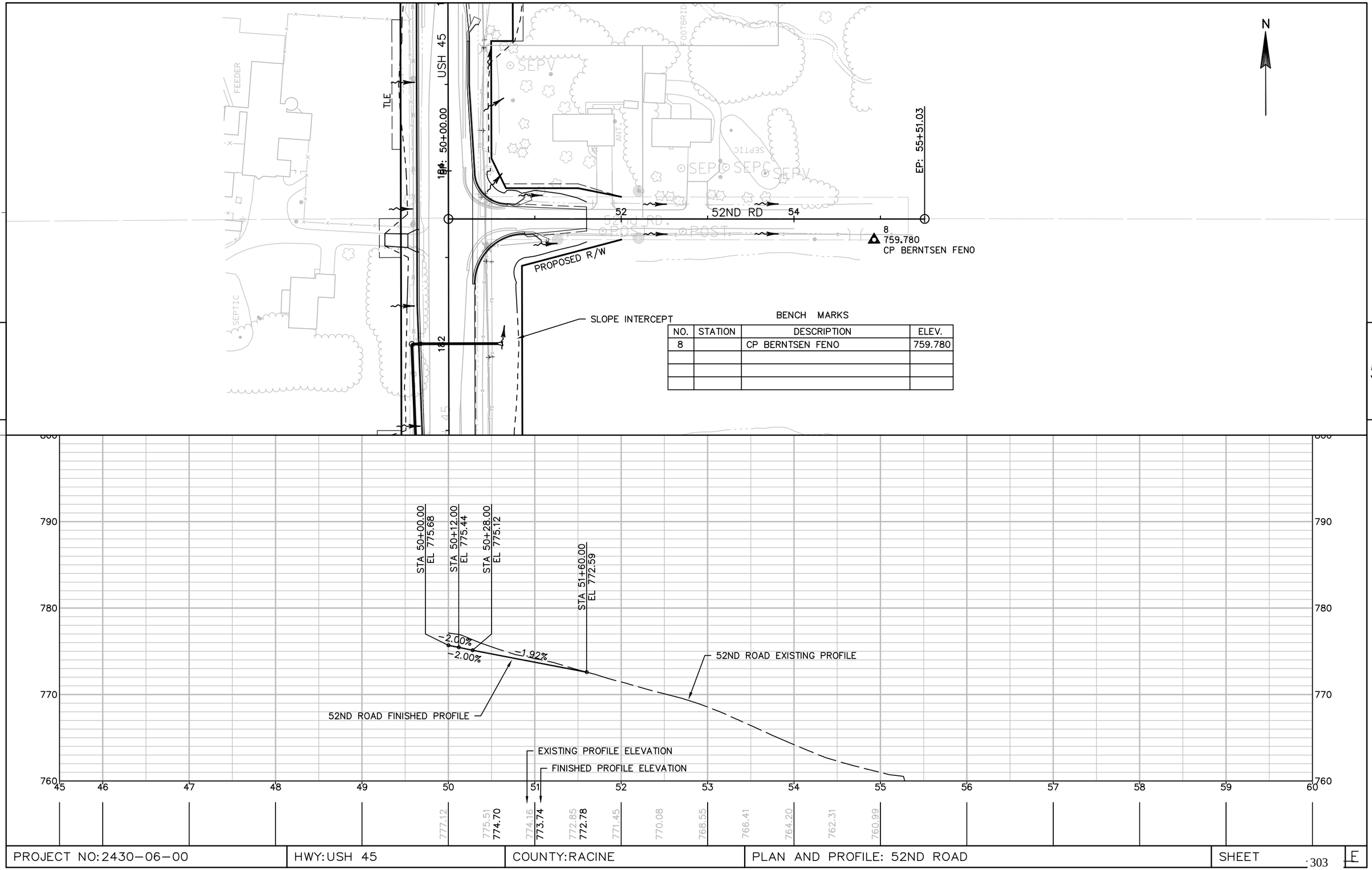


BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
7		CP BERNTSEN FENO	783.710



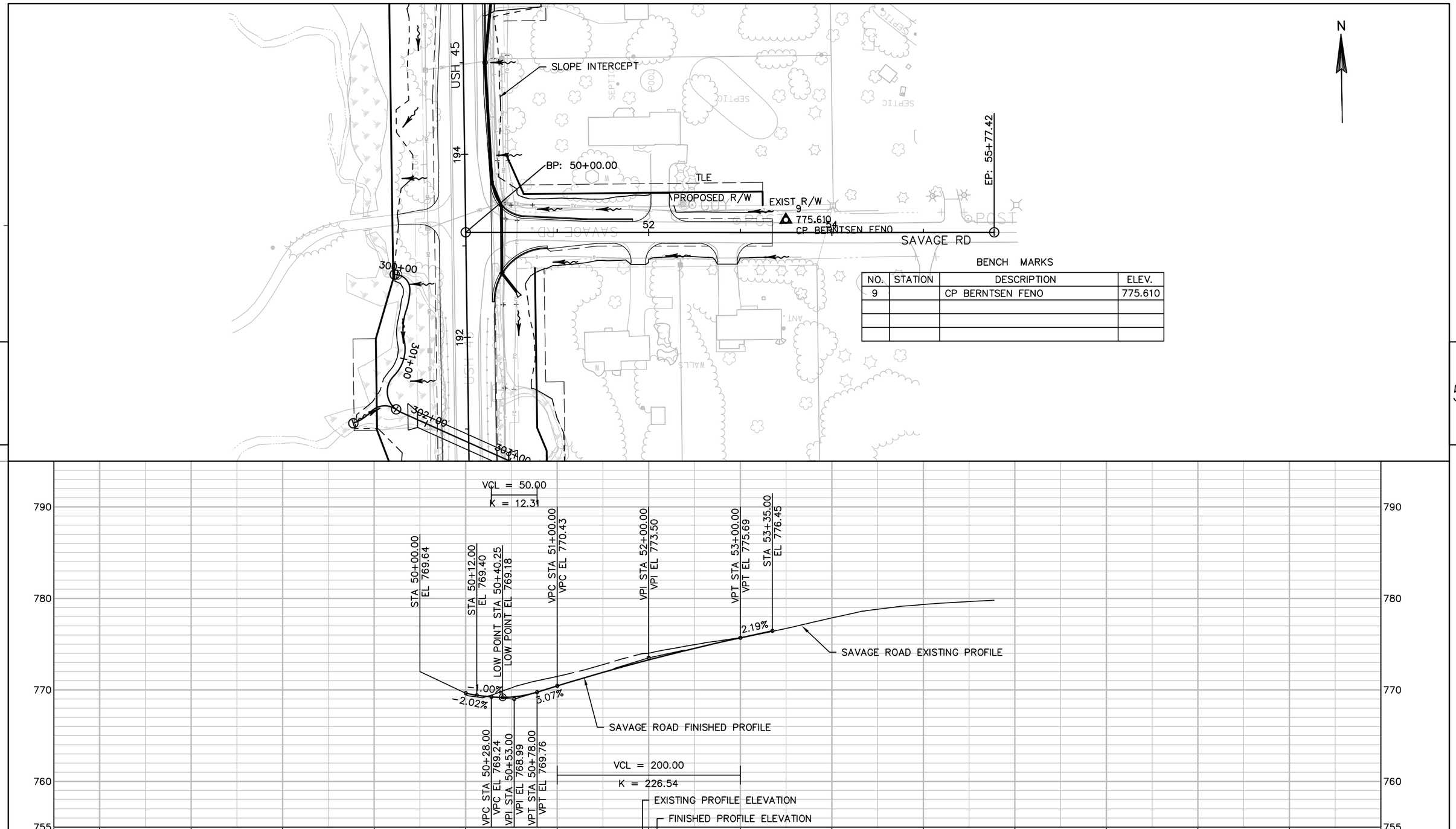
PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: CHURCH ROAD	SHEET 302 E



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
8		CP BERNTSEN FENO	759.780

PROJECT NO: 2430-06-00	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: 52ND ROAD	SHEET 303 E



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: SAVAGE ROAD	SHEET 304 E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
11		CP BERNTSEN FENO	784.670
12		CP BERNTSEN FENO	788.040

N

WETLAND, TYP

TLE

TLE

11
784.670
CP BERNTSEN FENO

12
788.040
CP BERNTSEN FENO

EXIST R/W

SLOPE INTERCEPT

PROPOSED R/W

PI: 223+00.09

PI: 50+00.00

CTH A

USH 45

BEGIN CONSTRUCTION
STA 47+00.00

END CONSTRUCTION
STA 54+00.00

VCL = 200.00
K = 116.49

VCL = 200.00
K = 132.22

STA 47+00.00
EL 785.50

LOW POINT STA 47+95.70
LOW POINT EL 785.13

STA 49+50.00
EL 786.13

STA 49+72.00
EL 786.37

STA 49+88.00
EL 786.53

STA 50+00.00
EL 786.74

STA 50+12.00
EL 786.53

STA 50+28.00
EL 786.37

LOW POINT STA 53+27.22
LOW POINT EL 784.04

STA 54+00.00
EL 784.24

-0.61%
1.11%
1.00%
1.75%
1.75%
-1.00%
1.11%
-1.00%
0.51%

781.29

CTH A FINISHED PROFILE
CTH A EXISTING PROFILE

VPC STA 47+25.00
VPC EL 785.35

VPI STA 48+25.00
VPI EL 784.74

VPT STA 49+25.00
VPT EL 785.85

VPC STA 51+95.00
VPC EL 784.70

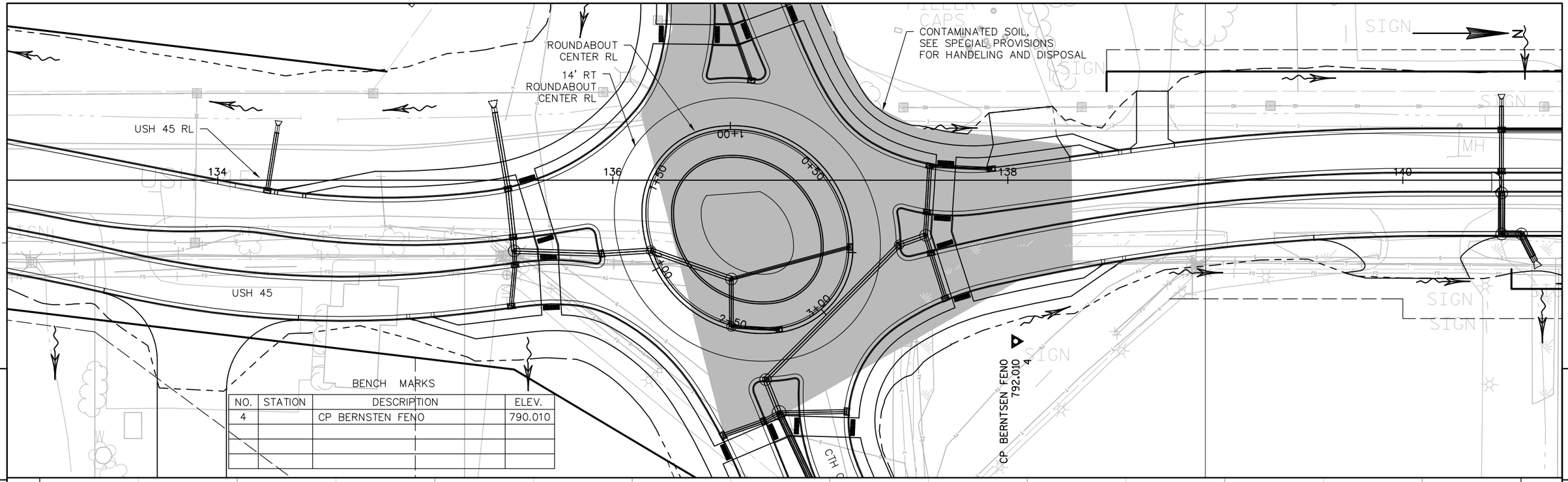
VPI STA 52+95.00
VPI EL 783.70

VPT STA 53+95.00
VPT EL 784.21

EXISTING PROFILE ELEVATION

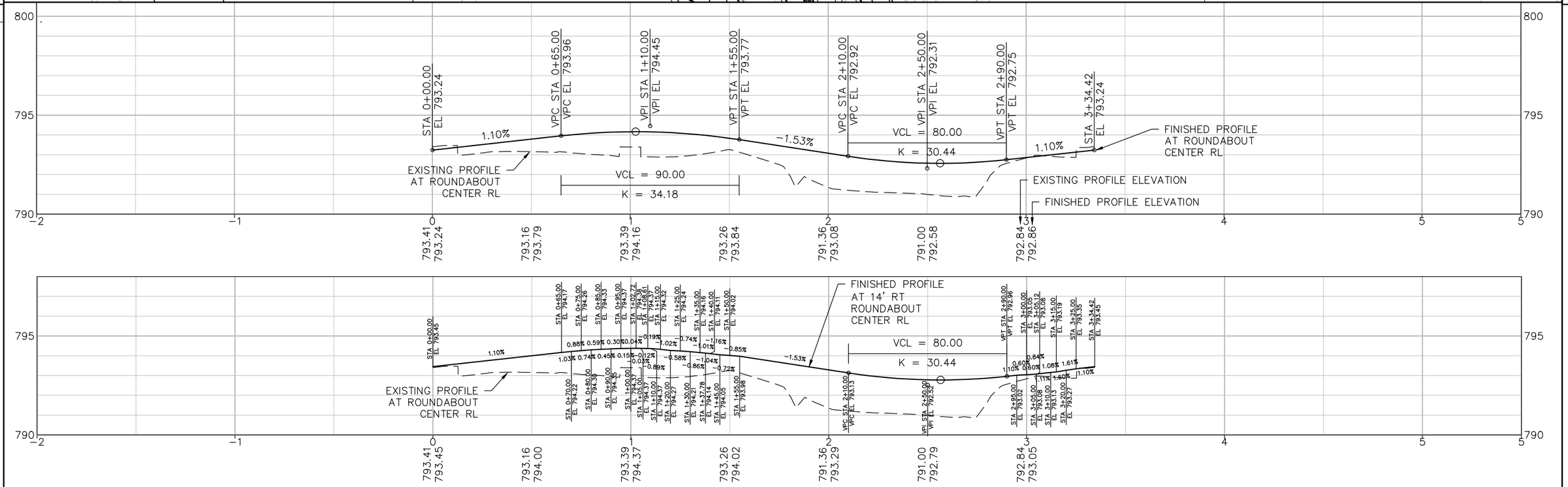
FINISHED PROFILE ELEVATION

| | | |



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
4		CP BERNSTEN FENO	790.010



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: CTH C ROUNDABOUT CENTER	SHEET 306 E

CURVE 1
PI STA = 300+14.64
Y = 183276.945
X = 567601.431
DELTA = 94°52'41"
D = 358°28'03"
T = 17.41'
L = 26.47'
R = 15.98'
PC STA = 299+97.24
PT STA = 300+23.70

CURVE 2
PI STA = 300+35.54
Y = 183247.762
X = 567599.628
DELTA = 15°34'03"
D = 66°11'22"
T = 11.83'
L = 23.52'
R = 86.56'
PC STA = 300+23.70
PT STA = 300+47.22

CURVE 3
PI STA = 300+64.28
Y = 183220.467
X = 567590.174
DELTA = 29°50'27"
D = 89°31'44"
T = 17.05'
L = 33.33'
R = 64.00'
PC STA = 300+47.22
PT STA = 300+80.56

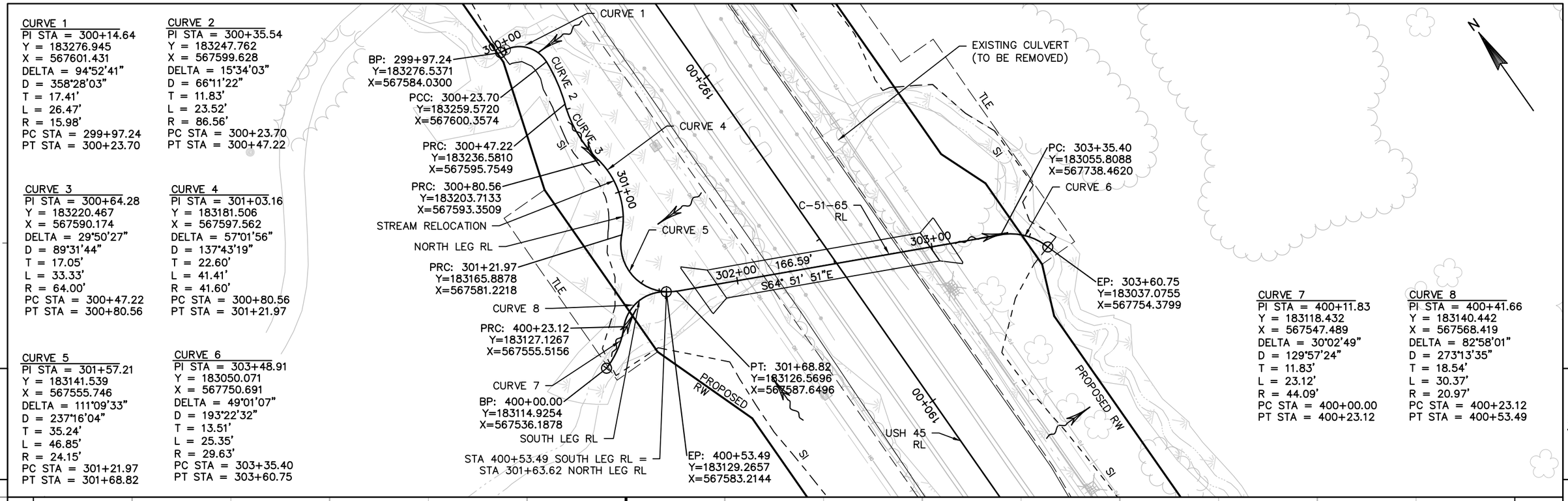
CURVE 4
PI STA = 301+03.16
Y = 183181.506
X = 567597.562
DELTA = 57°01'56"
D = 137°43'19"
T = 22.60'
L = 41.41'
R = 41.60'
PC STA = 300+80.56
PT STA = 301+21.97

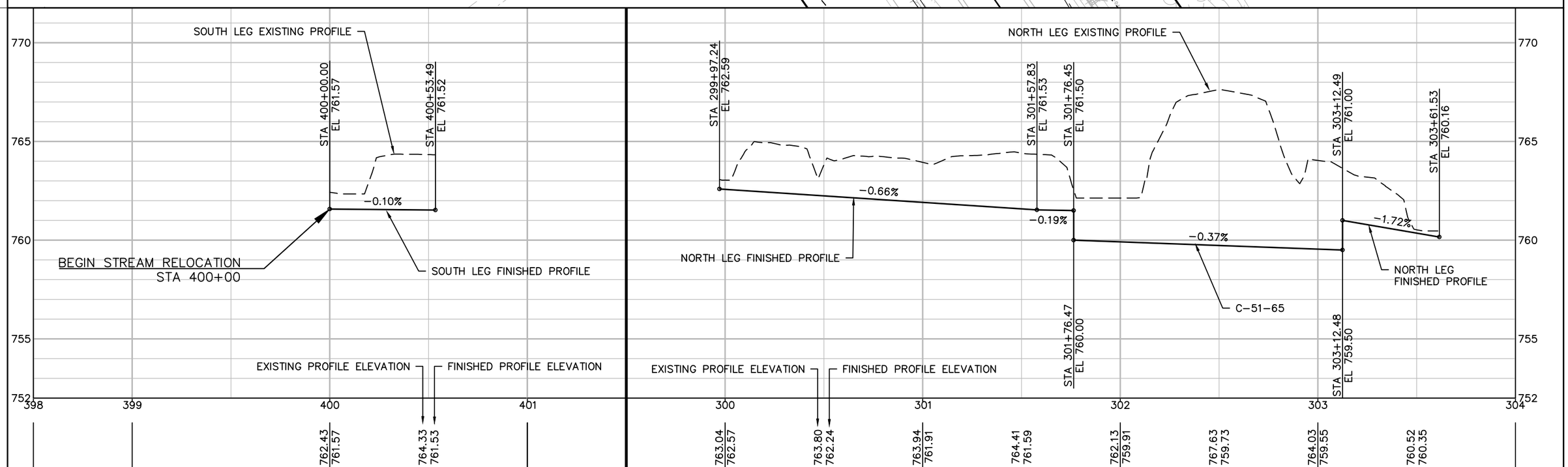
CURVE 5
PI STA = 301+57.21
Y = 183141.539
X = 567555.746
DELTA = 111°09'33"
D = 237°16'04"
T = 35.24'
L = 46.85'
R = 24.15'
PC STA = 301+21.97
PT STA = 301+68.82

CURVE 6
PI STA = 303+48.91
Y = 183050.071
X = 567750.691
DELTA = 49°01'07"
D = 193°22'32"
T = 13.51'
L = 25.35'
R = 29.63'
PC STA = 303+35.40
PT STA = 303+60.75

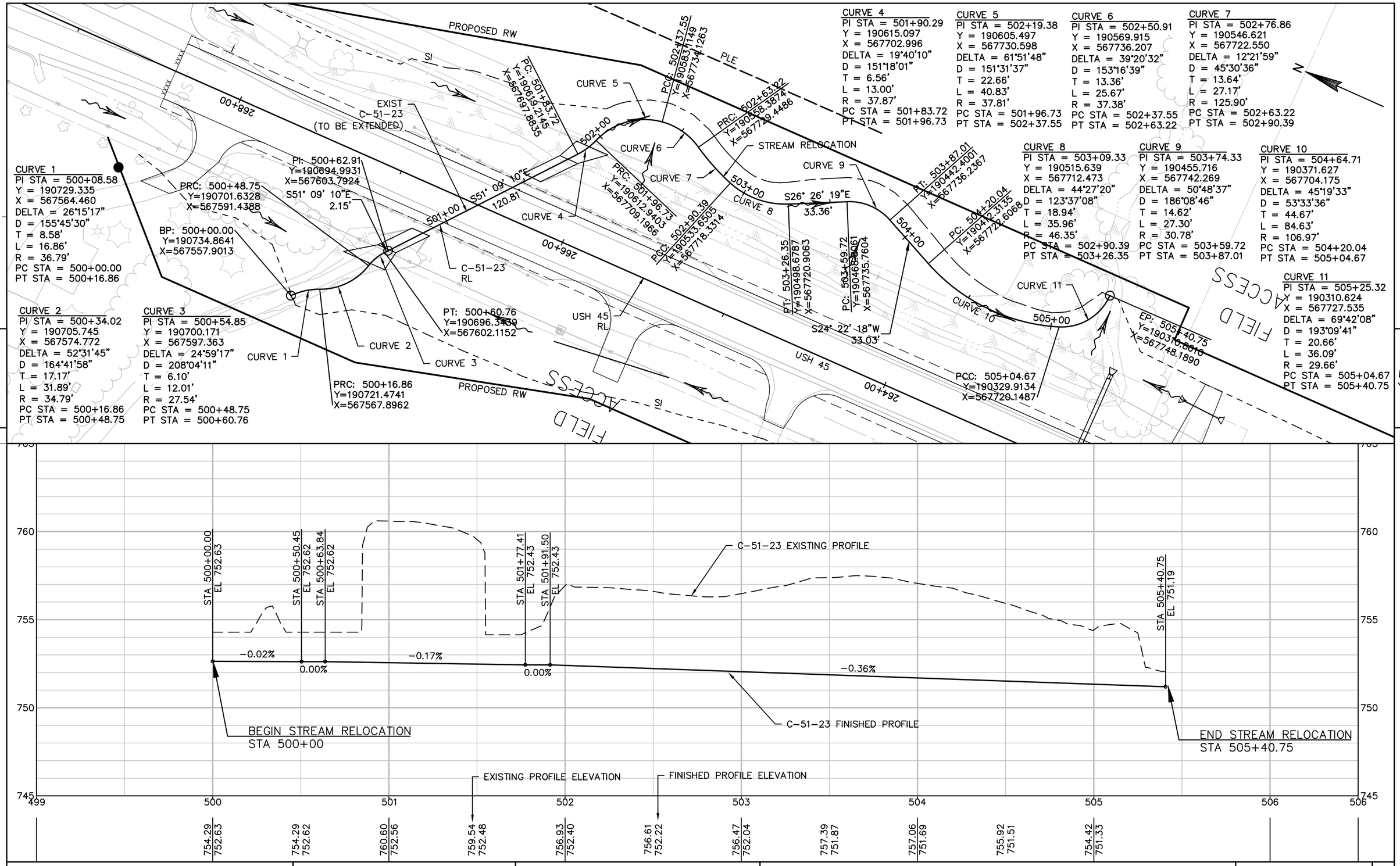
CURVE 7
PI STA = 400+11.83
Y = 183118.432
X = 567547.489
DELTA = 30°02'49"
D = 129°57'24"
T = 11.83'
L = 23.12'
R = 44.09'
PC STA = 400+00.00
PT STA = 400+23.12

CURVE 8
PI STA = 400+41.66
Y = 183140.442
X = 567568.419
DELTA = 82°58'01"
D = 273°13'35"
T = 18.54'
L = 30.37'
R = 20.97'
PC STA = 400+23.12
PT STA = 400+53.49





PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: C-51-65	SHEET 307



CURVE 1
PI STA = 500+08.58
Y = 190729.335
X = 567564.460
DELTA = 26°15'17"
D = 155°45'30"
T = 8.58'
L = 16.86'
R = 36.79'
PC STA = 500+00.00
PT STA = 500+16.86

CURVE 2
PI STA = 500+34.02
Y = 190705.745
X = 567574.772
DELTA = 52°31'45"
D = 164°41'58"
T = 17.17'
L = 31.89'
R = 34.79'
PC STA = 500+16.86
PT STA = 500+48.75

CURVE 3
PI STA = 500+54.85
Y = 190700.171
X = 567597.363
DELTA = 24°59'17"
D = 208°04'11"
T = 6.10'
L = 12.01'
R = 27.54'
PC STA = 500+48.75
PT STA = 500+60.76

CURVE 4
PI STA = 501+90.29
Y = 190615.097
X = 567702.996
DELTA = 19°40'10"
D = 151°18'01"
T = 6.56'
L = 13.00'
R = 37.87'
PC STA = 501+83.72
PT STA = 501+96.73

CURVE 5
PI STA = 502+19.38
Y = 190605.497
X = 567730.598
DELTA = 61°51'48"
D = 151°31'37"
T = 22.66'
L = 40.83'
R = 37.81'
PC STA = 501+96.73
PT STA = 502+37.55

CURVE 6
PI STA = 502+50.91
Y = 190569.915
X = 567736.207
DELTA = 39°20'32"
D = 153°16'39"
T = 13.36'
L = 25.67'
R = 37.38'
PC STA = 502+37.55
PT STA = 502+63.22

CURVE 7
PI STA = 502+76.86
Y = 190546.621
X = 567722.550
DELTA = 12°21'59"
D = 45°30'36"
T = 13.64'
L = 27.17'
R = 125.90'
PC STA = 502+63.22
PT STA = 502+90.39

CURVE 8
PI STA = 503+09.33
Y = 190515.639
X = 567712.473
DELTA = 44°27'20"
D = 123°37'08"
T = 18.94'
L = 35.96'
R = 46.35'
PC STA = 502+90.39
PT STA = 503+26.35

CURVE 9
PI STA = 503+74.33
Y = 190455.716
X = 567742.269
DELTA = 50°48'37"
D = 186°08'46"
T = 14.62'
L = 27.30'
R = 30.78'
PC STA = 503+59.72
PT STA = 503+87.01

CURVE 10
PI STA = 504+64.71
Y = 190371.627
X = 567704.175
DELTA = 45°19'33"
D = 53°33'36"
T = 44.67'
L = 84.63'
R = 106.97'
PC STA = 504+20.04
PT STA = 505+04.67

CURVE 11
PI STA = 505+25.32
Y = 190310.624
X = 567727.535
DELTA = 69°42'08"
D = 193°09'41"
T = 20.66'
L = 36.09'
R = 29.66'
PC STA = 505+04.67
PT STA = 505+40.75

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	PLAN AND PROFILE: C-51-023	SHEET 308

Standard Detail Drawing List

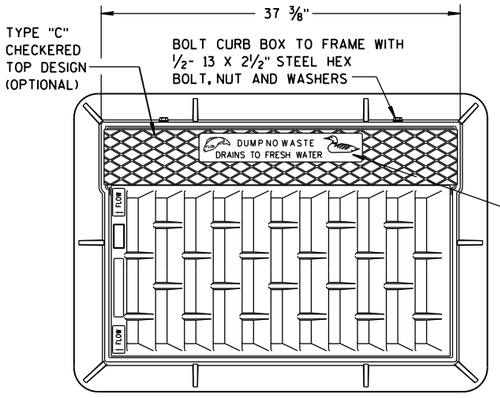
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08A08-01	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08A09-02	CATCH BASINS 2X3-FT AND 2.5X3-FT
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-18A	CURB RAMPS TYPES 1 AND 1-A
08D05-18D	CURB RAMPS TYPE 4B AND 4B1
08D05-18E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D15-05A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08D15-05B	EDGEDRAIN AND BASE AGGREGATE OPEN GRADED
08D15-05C	EDGEDRAIN AND BASE AGGREGATE OPEN GRADED
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS
09B02-09	CONDUIT
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C14-02	CONCRETE CONTROL CABINET BASE, TYPE L
09D05-01	L30 LIGHTING CONTROL CABINET 240/480 VOLT
09E01-14D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-14G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
10A01-03	ELECTRICAL HANDHOLE WIRING
10A02-03	IDENTIFICATION PLAQUES LIGHT POLES
10A05-02	ELECTRICAL DETAILS GROUND MOUNT LIGHT POLES ISOLATED NEUTRAL SYSTEMS
11B01-05	CONCRETE CORRUGATED MEDIAN
11B02-02	CONCRETE MEDIAN NOSE
13A10-01A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C04-16	URBAN NON-DOWELED CONCRETE PAVEMENT
13C18-04A	CONCRETE PAVEMENT JOINTING
13C18-04B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-04C	CONCRETE PAVEMENT JOINT TIES
13C18-04D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-04E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
14B07-14A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-13B	PAVEMENT MARKING WORDS
15C07-13C	PAVEMENT MARKING ARROWS

6

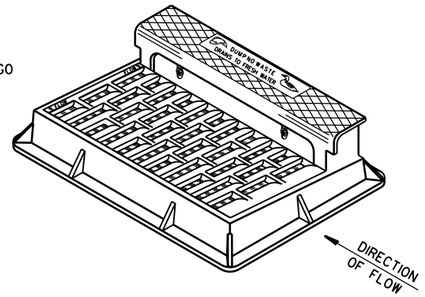
Standard Detail Drawing List

15C07-13D	ROUNDABOUT ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C18-03	MEDIAN ISLAND MARKING
15C27-01	DOUBLE ARROW WARNING SIGN PLACEMENT
15C29-03A	BICYCLE LANE MARKING
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS

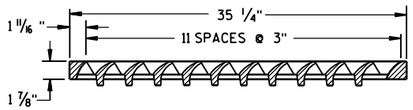
6

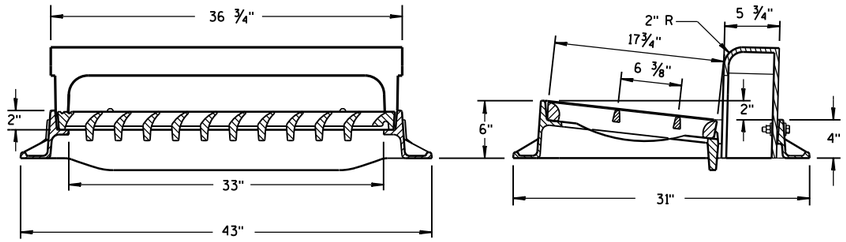


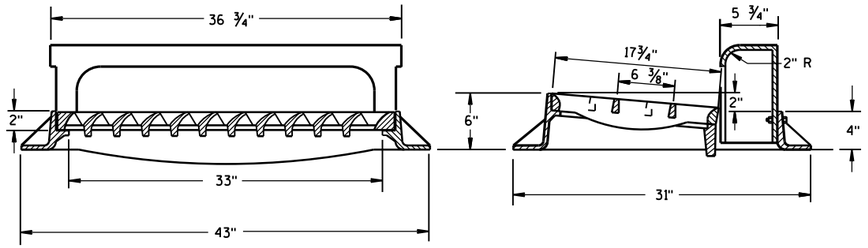
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

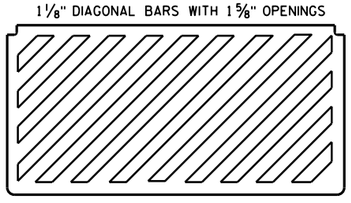






TYPE "H"

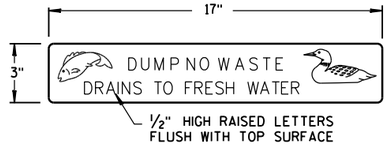
NOTE: EITHER CASTING IS ACCEPTABLE



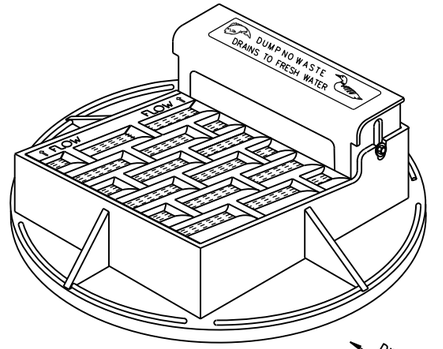
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

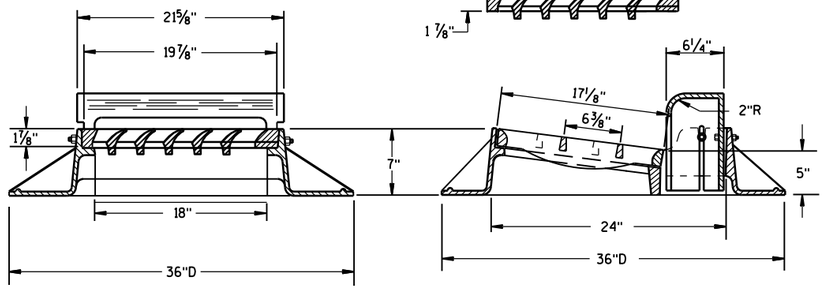


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



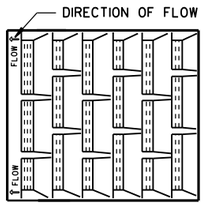
TYPE "A"

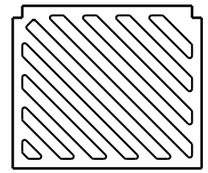
GENERAL NOTES

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

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

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

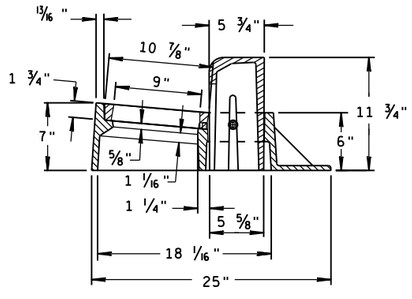


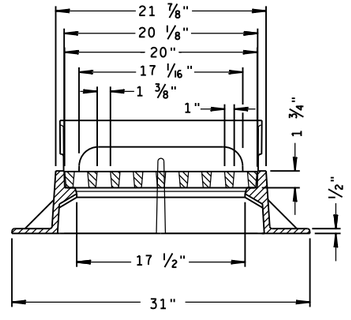


SPECIAL GRATE FOR TYPE "A" COVER

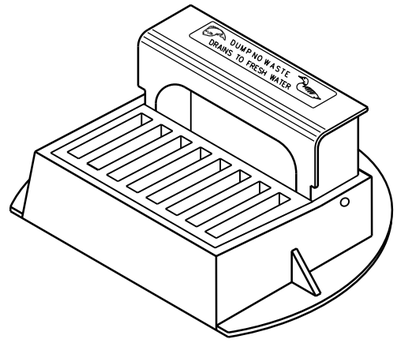
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"



INLET COVERS TYPE A, H, A-S, H-S & Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

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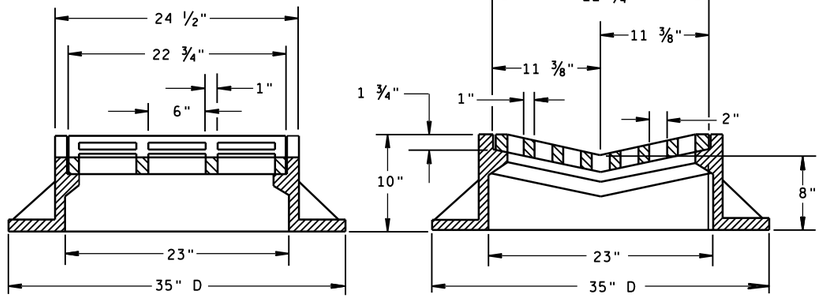
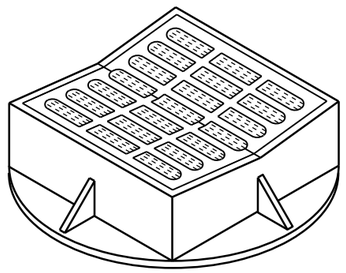
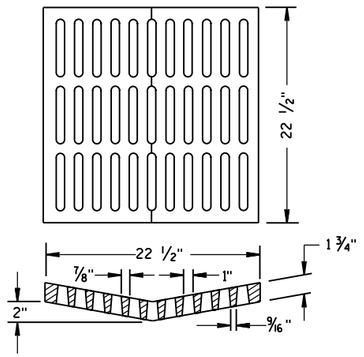
S.D.D. 8 A 5-19a



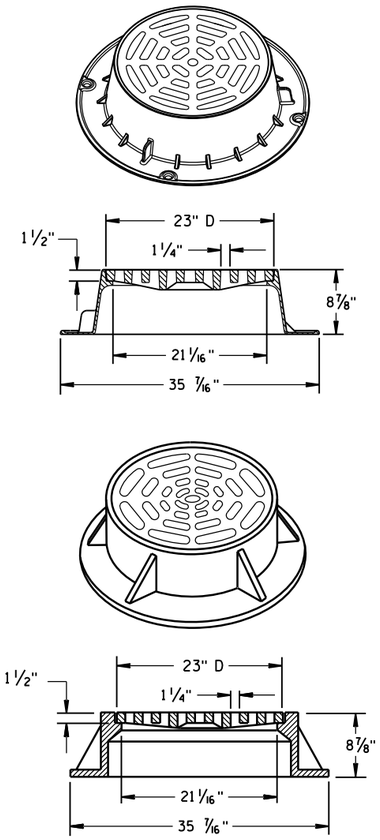


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

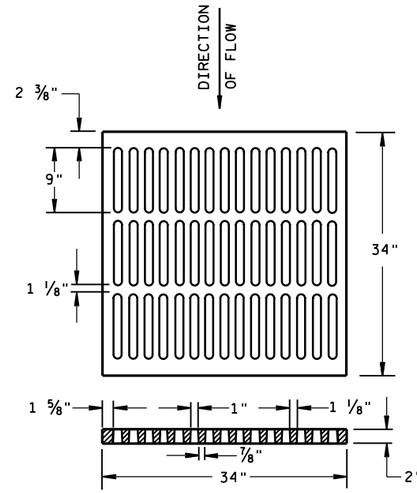
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

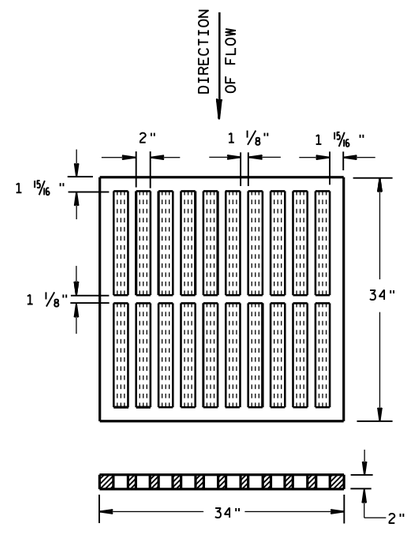
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



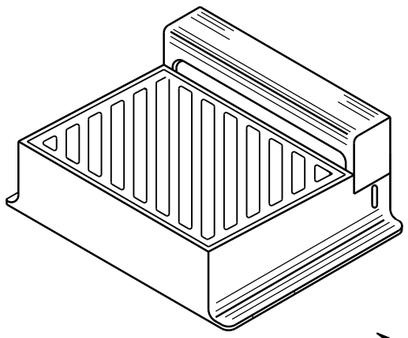
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

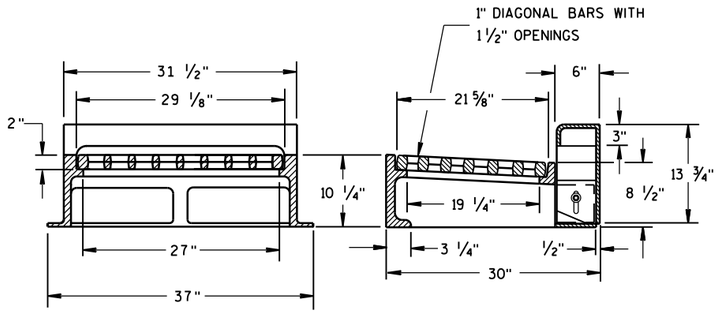


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

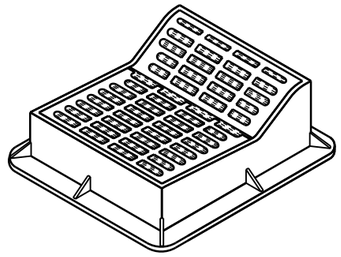
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

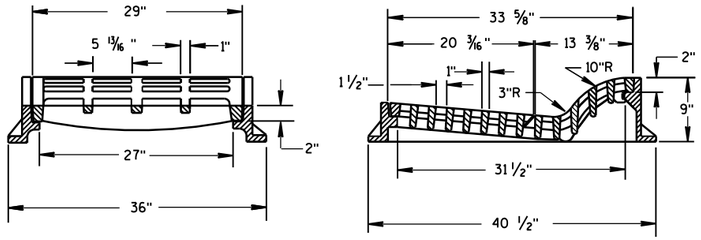
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

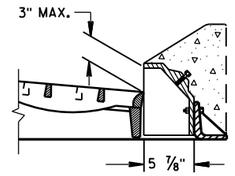
S.D.D. 8 A 5-19b





TYPE "F"

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



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

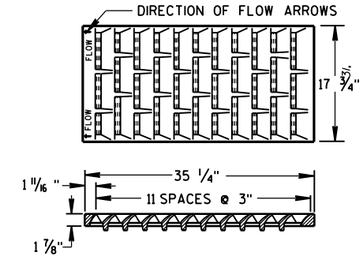
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

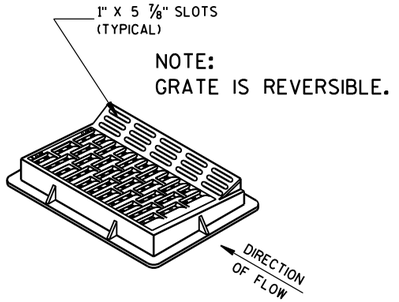
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

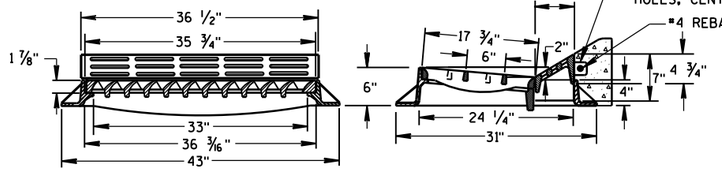
GENERAL NOTES

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

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



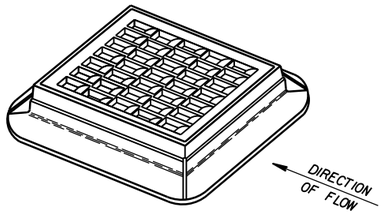


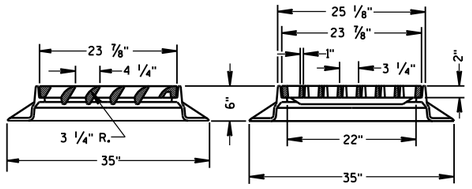


TYPE "HM"

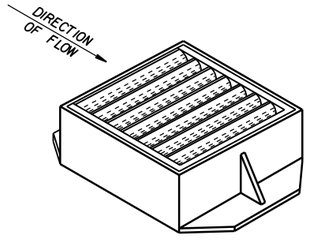
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

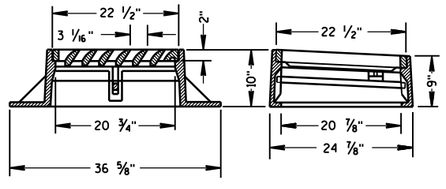
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



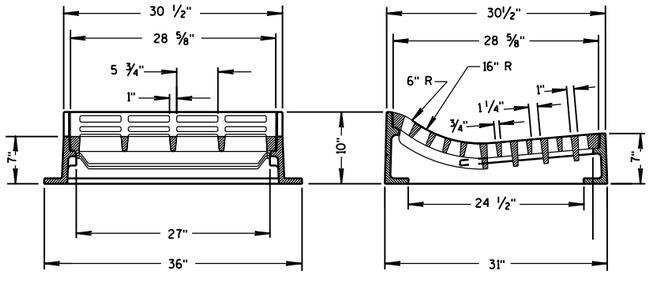


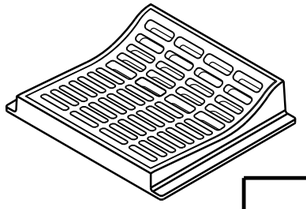
TYPE "S"





TYPE "V"





TYPE "T"

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

313

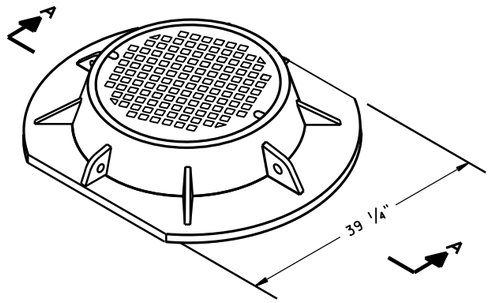
FHWA

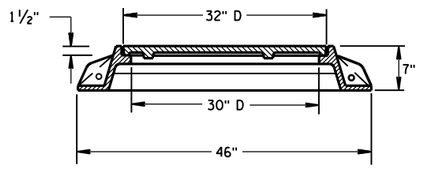
6

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

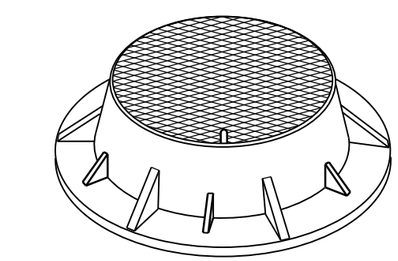
6

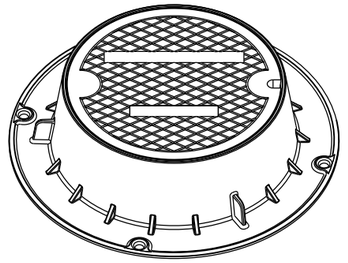
S.D.D. 8 A 5-19c

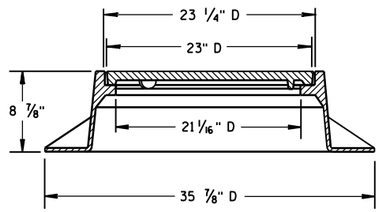


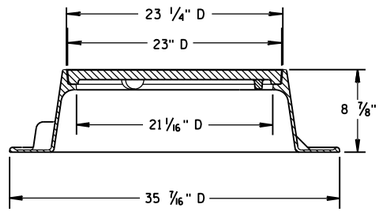


SECTION A-A
TYPE "K"









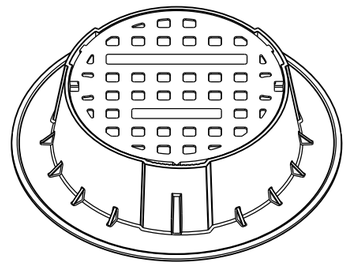
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

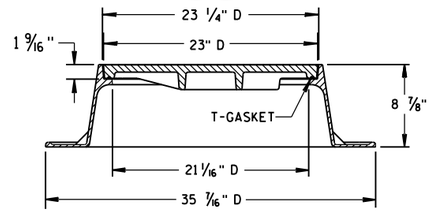
GENERAL NOTES

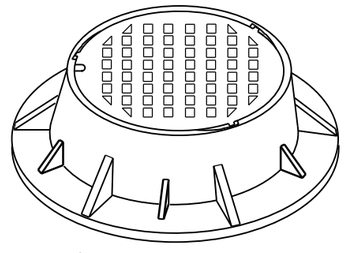
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

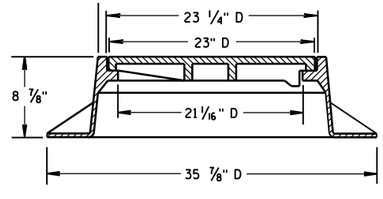
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

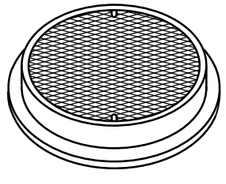


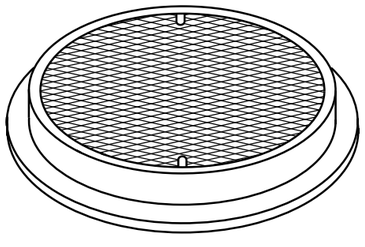


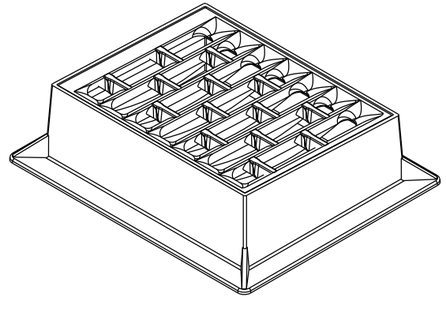


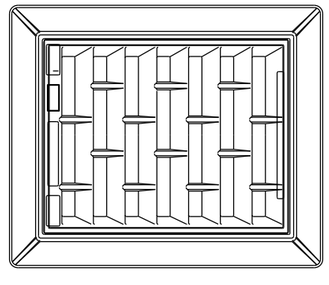


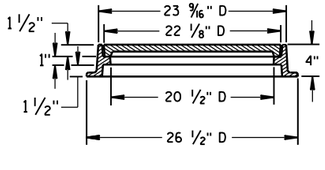
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



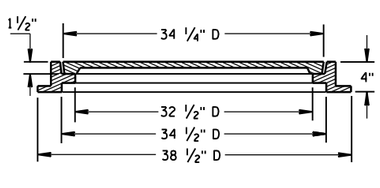




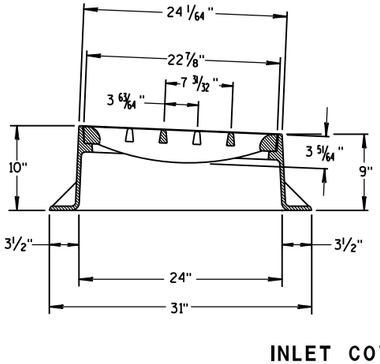


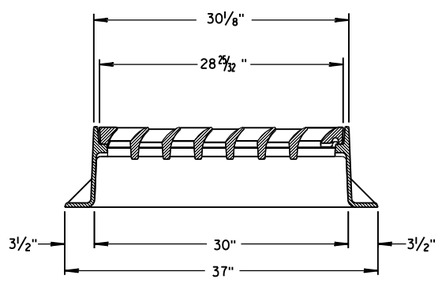


TYPE "L"



TYPE "M"





INLET COVER TYPE "BW"

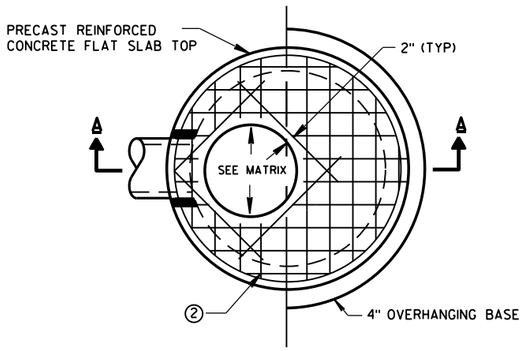
INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

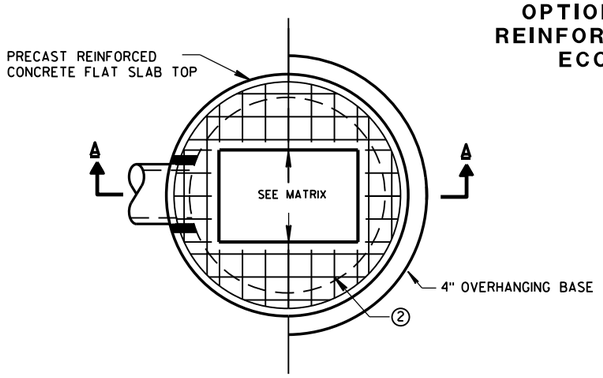
APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

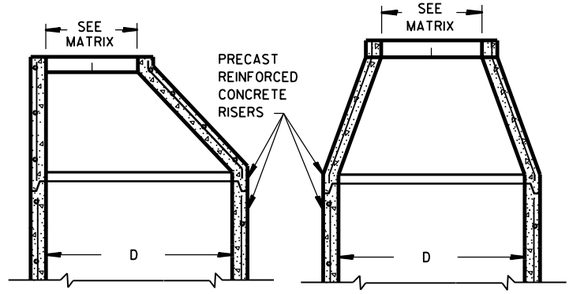
S.D.D. 8 A 5-19d



PLAN VIEW CIRCULAR OPENING

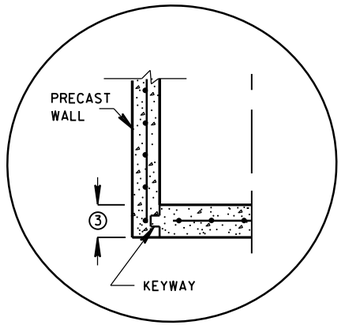


PLAN VIEW RECTANGULAR OPENING

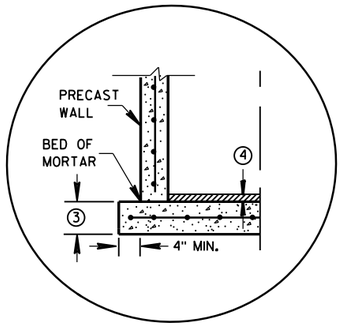


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

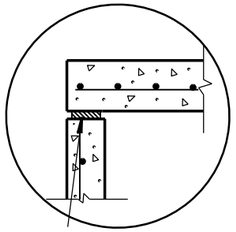


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



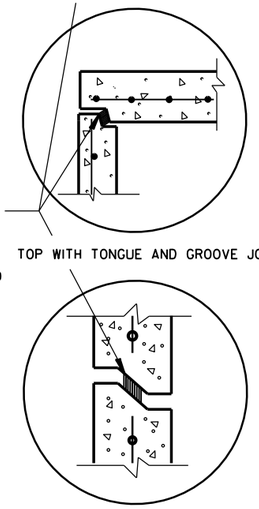
SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



TOP WITH PLAIN END JOINT

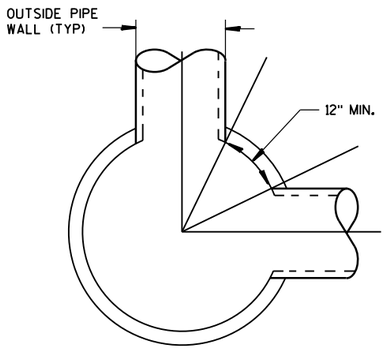
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



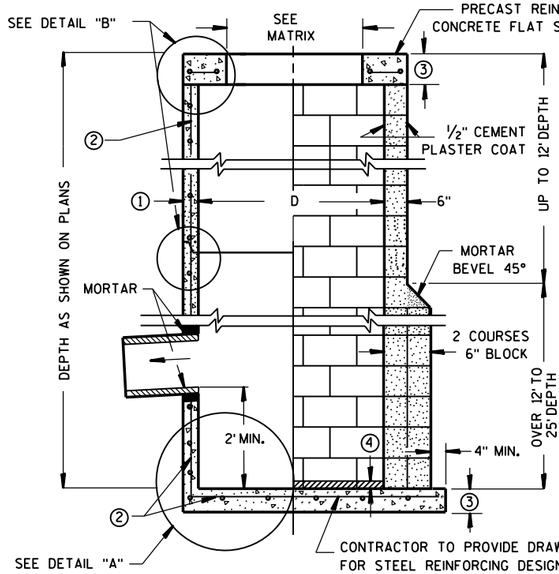
TOP WITH TONGUE AND GROOVE JOINT

RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



DETAIL "C"



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

SECTION A-A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

GENERAL NOTES

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

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

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

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

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

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2 INCH 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.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

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 AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

② FOR PRECAST CATCH BASINS 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".

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

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

PIPE MATRIX

CATCH BASIN 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	30

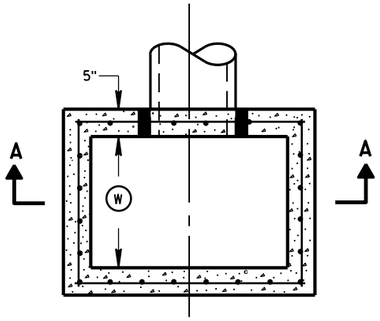
CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

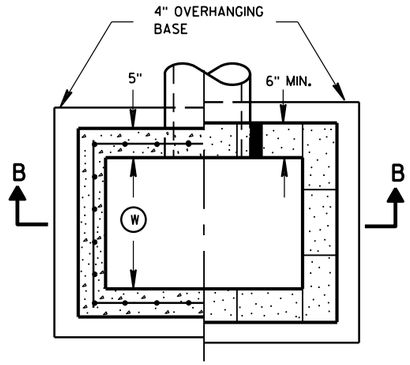
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

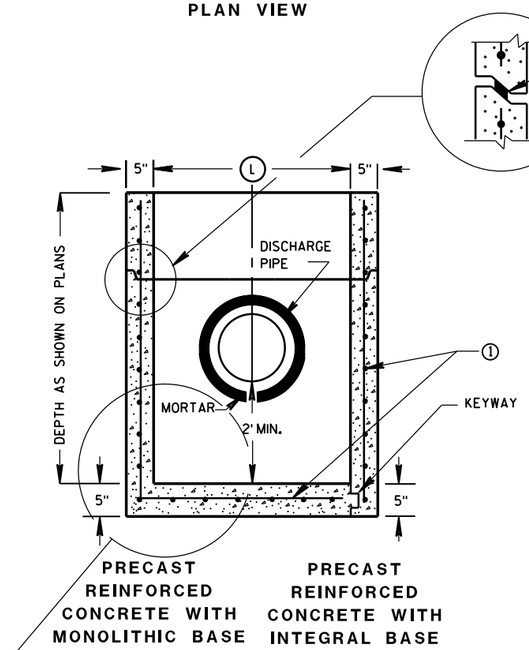
S.D.D. 8 A 8-1



PLAN VIEW



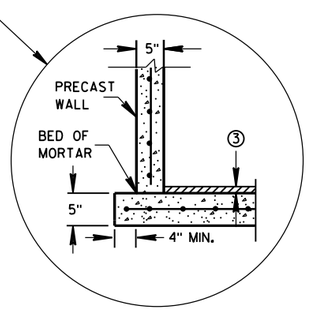
PLAN VIEW



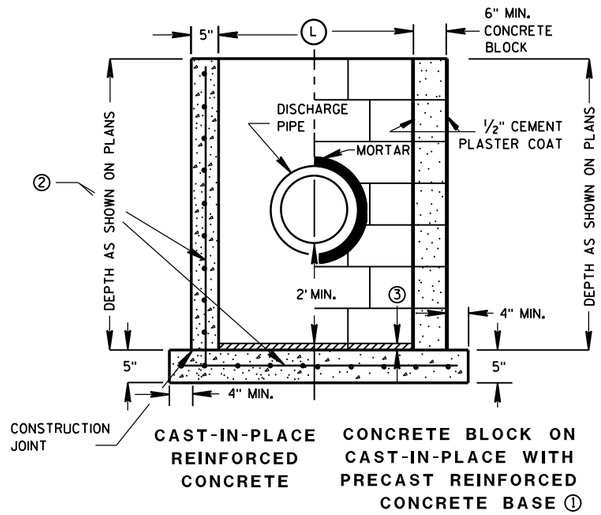
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

SECTION A-A



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION



CAST-IN-PLACE REINFORCED CONCRETE

CONCRETE BLOCK ON CAST-IN-PLACE WITH PRECAST REINFORCED CONCRETE BASE ①

SECTION B-B

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

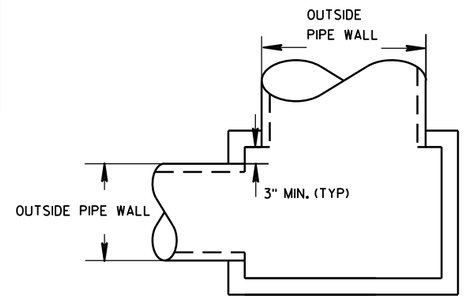
③ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER MATRIX

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

PIPE MATRIX

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



DETAIL "A"

CATCH BASINS 2X3-FT AND 2.5X3-FT

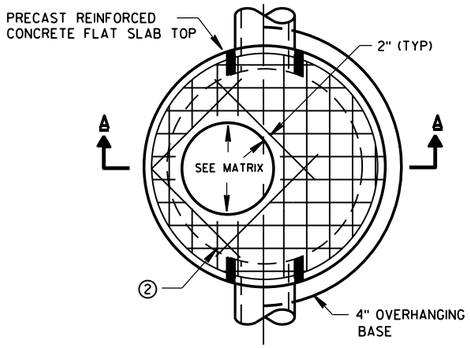
CATCH BASINS 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

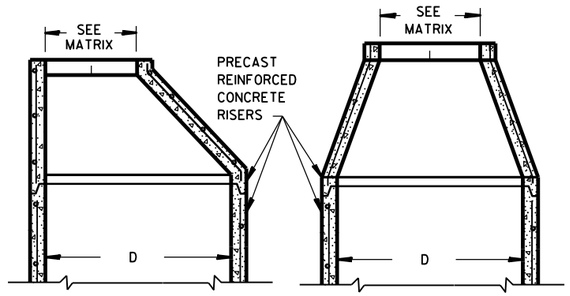
APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

6

S.D.D. 8 A 9-2

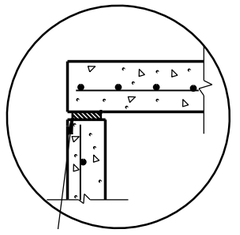


PLAN VIEW CIRCULAR OPENING

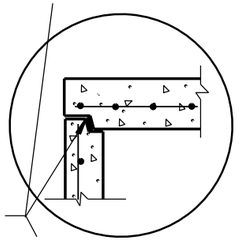


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

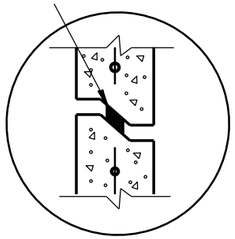


TOP WITH PLAIN END JOINT



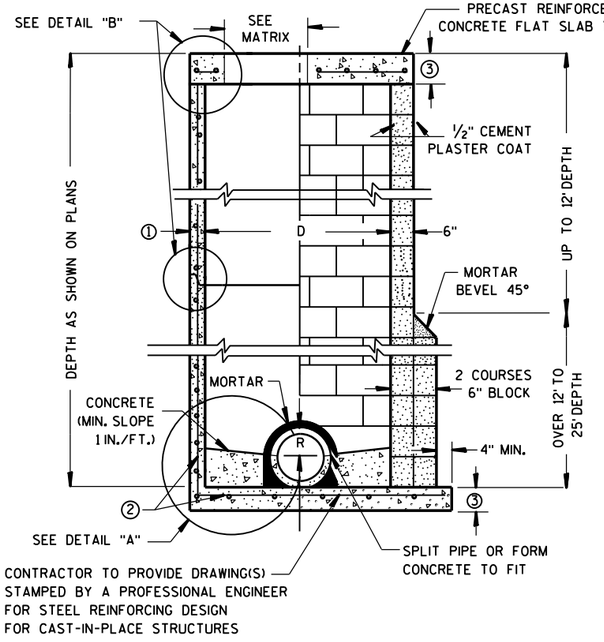
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



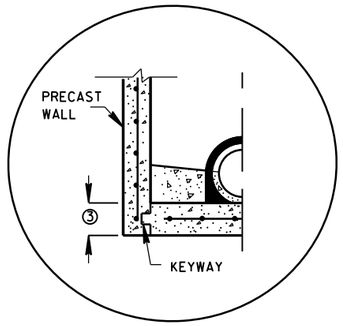
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

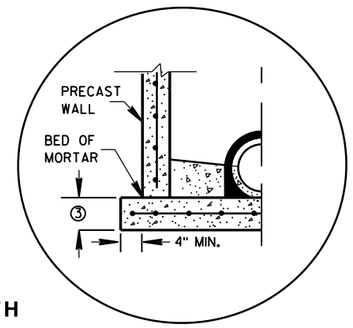


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

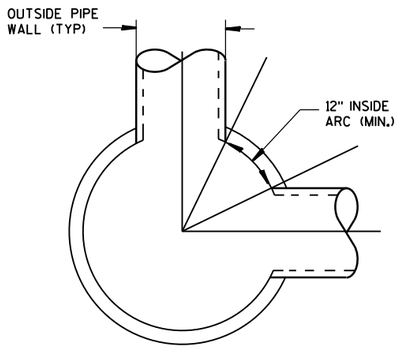


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

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

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

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

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

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

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

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

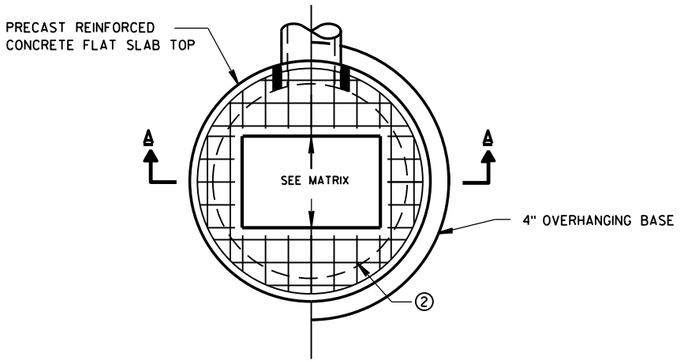
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

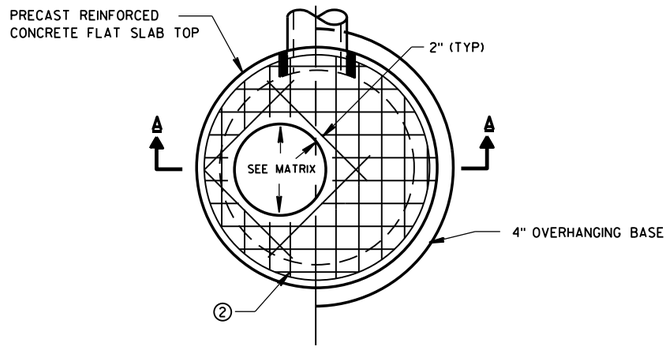
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

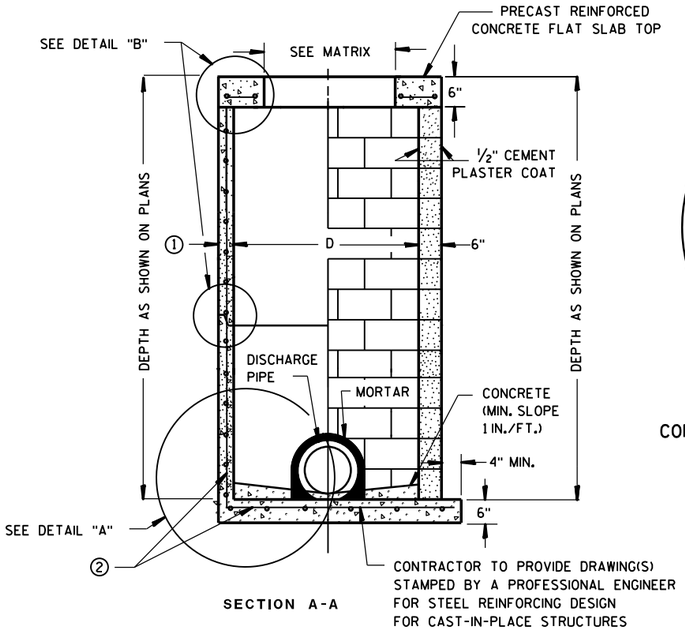
S.D.D. 8 B 9-1



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

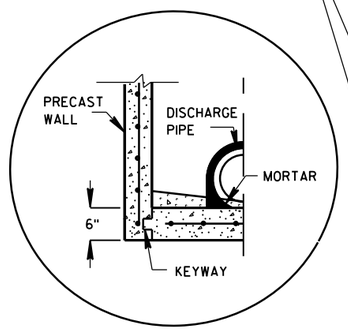


SECTION A-A

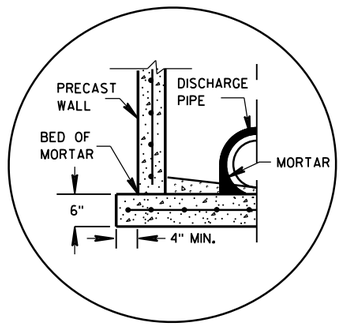
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

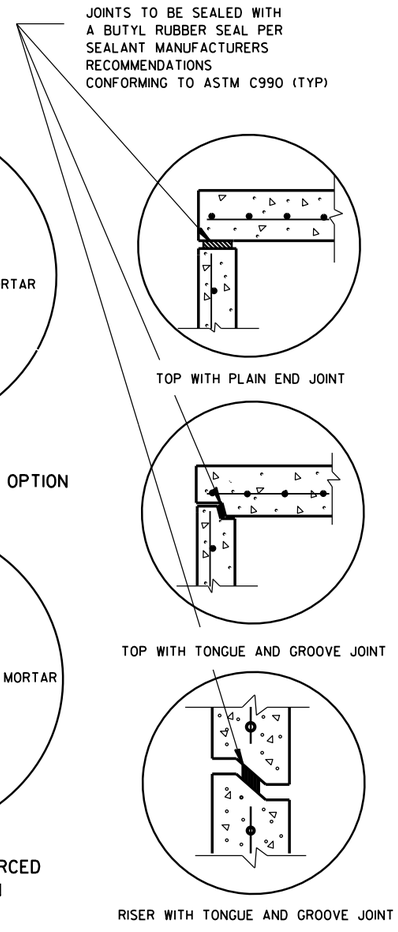


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

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

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

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

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

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

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

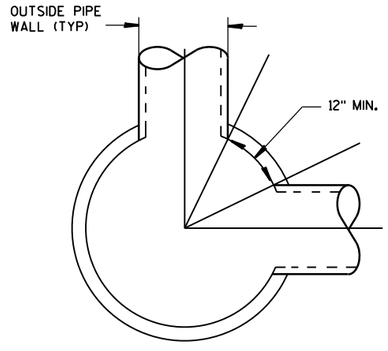
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

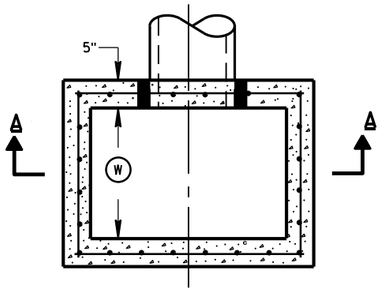
INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

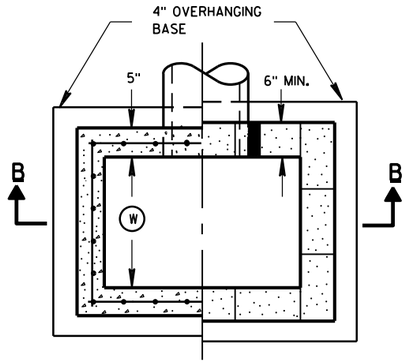
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

INLETS 3-FT AND 4-FT DIAMETER

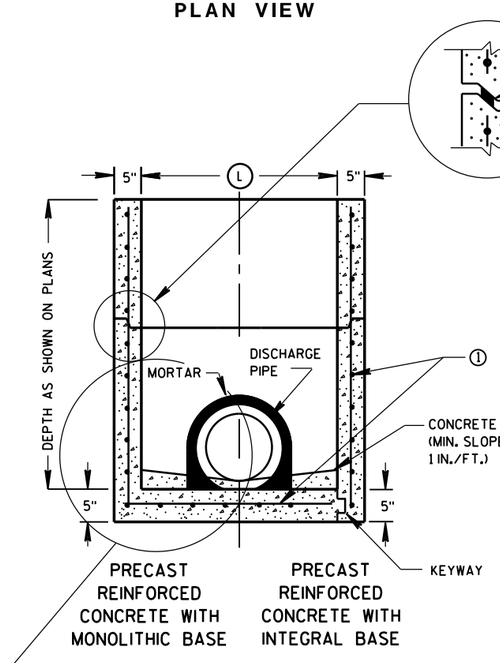
6
S.D.D. 8 C 6-1



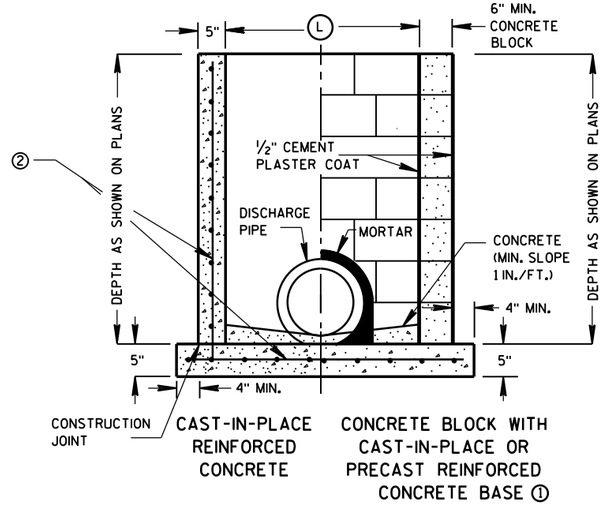
PLAN VIEW



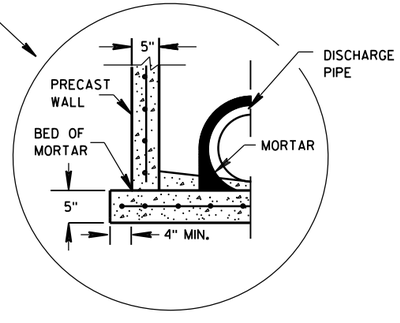
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

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

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

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

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

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

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

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

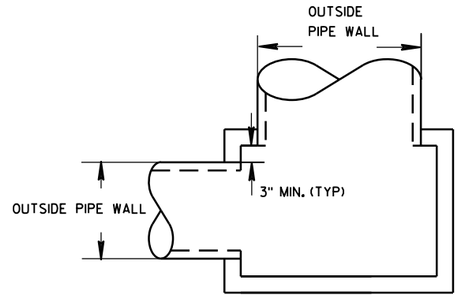
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

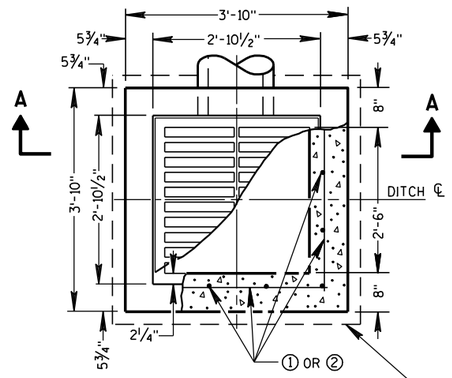
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012
DATE
FHWA

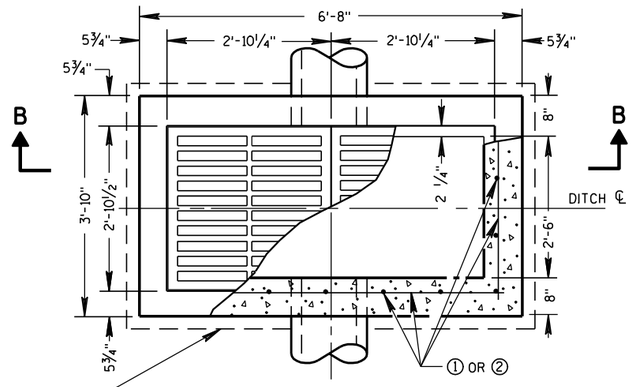
/S/ Jerry H. Zogg
ROADWAY STANDARDS DE
ENGINEER

6
S.D.D. 8 C 7-1

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

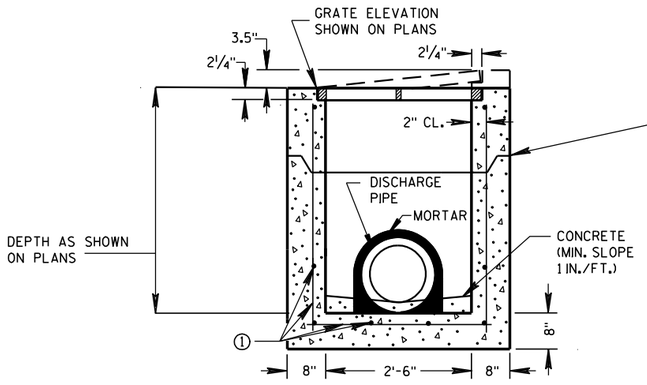


PLAN VIEW

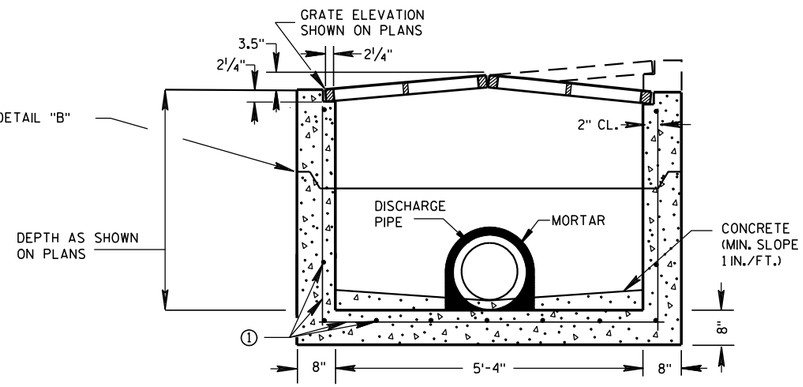


PLAN VIEW

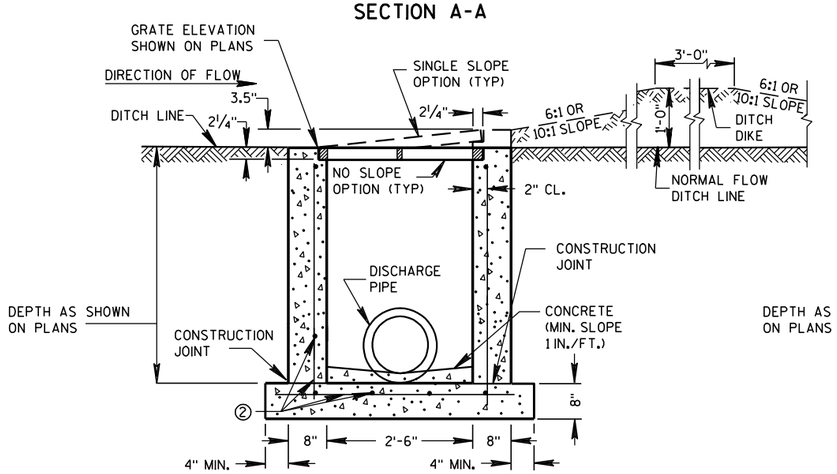
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



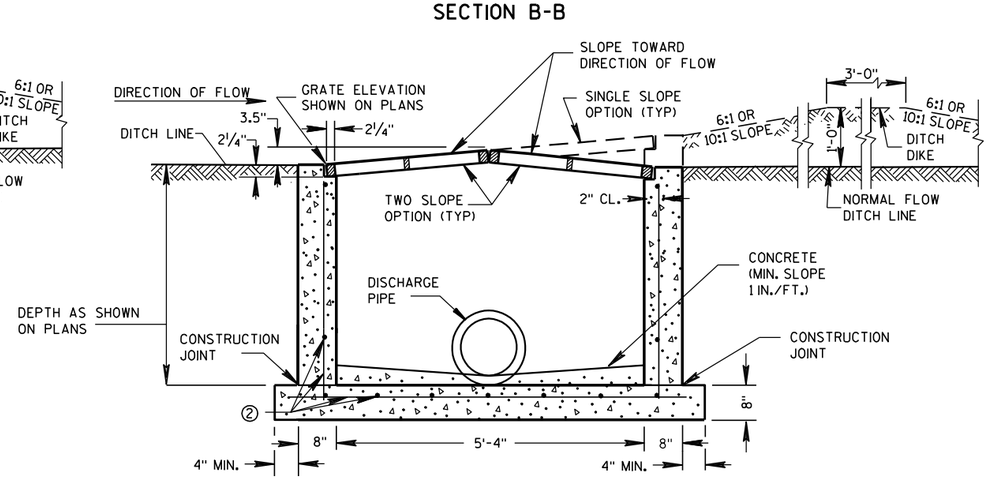
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

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

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

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

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

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

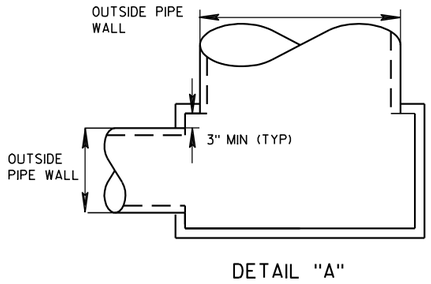
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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

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

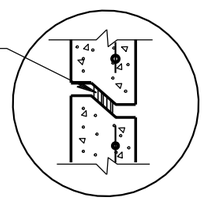
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)

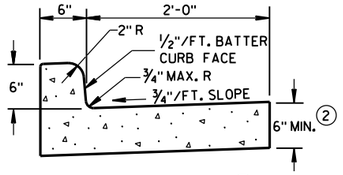


DETAIL "B"

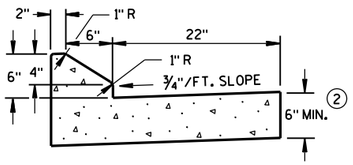
INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

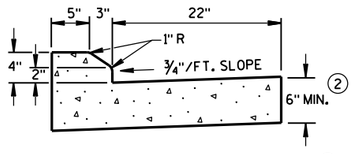
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA



TYPES A & D ①

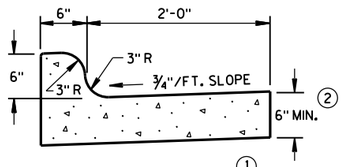


6" SLOPED CURB TYPES G & J ①

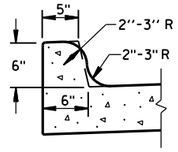


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

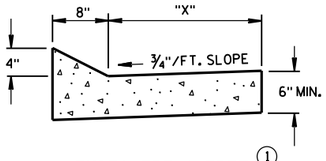


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

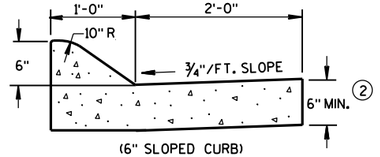
CONCRETE CURB & GUTTER 30"



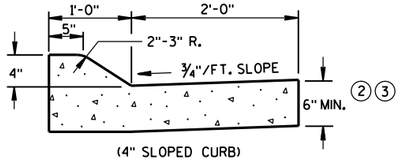
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

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

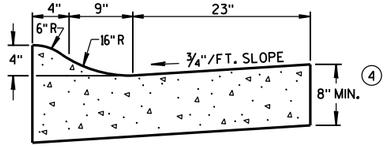


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

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

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

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

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

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

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

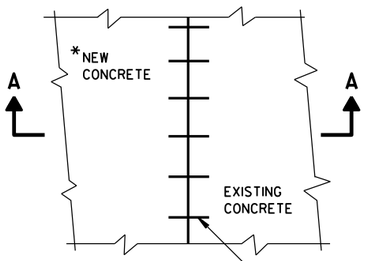
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

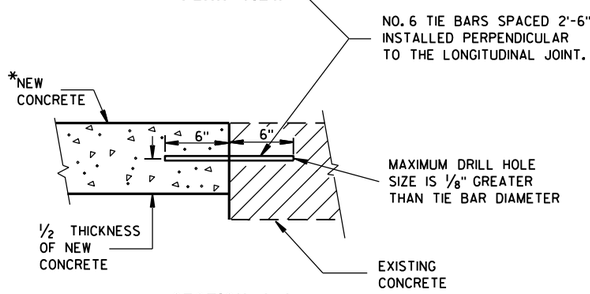
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



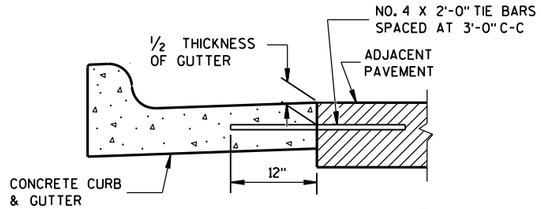
PLAN VIEW

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

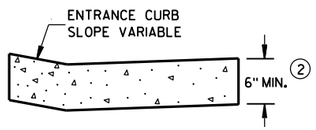


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

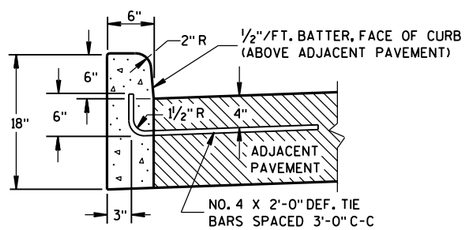


TYPICAL TIE BAR LOCATION ①

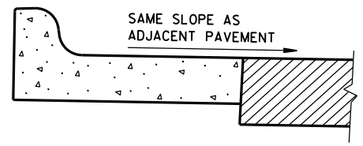


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

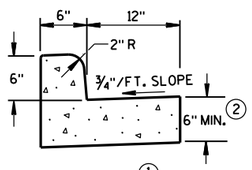


① TYPES A & D



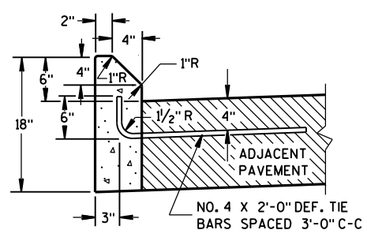
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



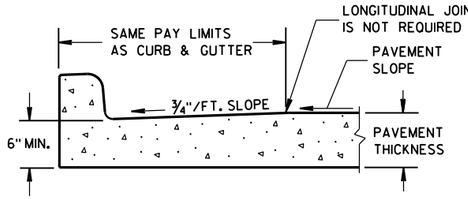
① TYPES A & D

CONCRETE CURB & GUTTER 18"

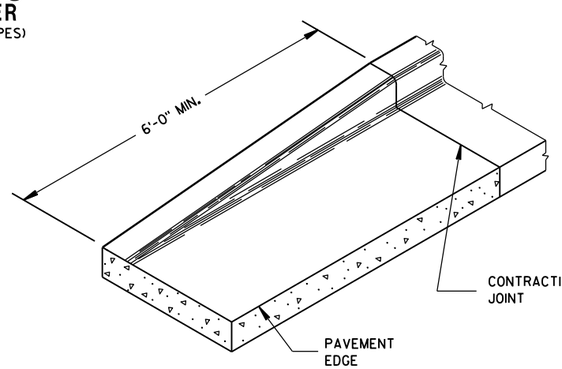


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June, 2016 — DATE

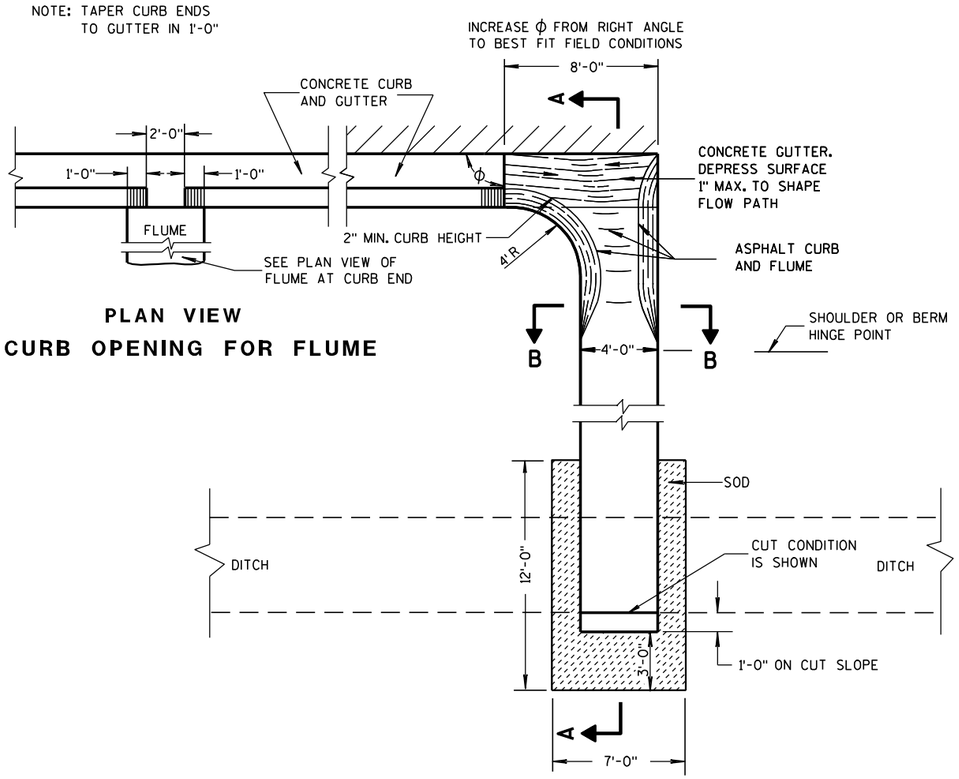
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

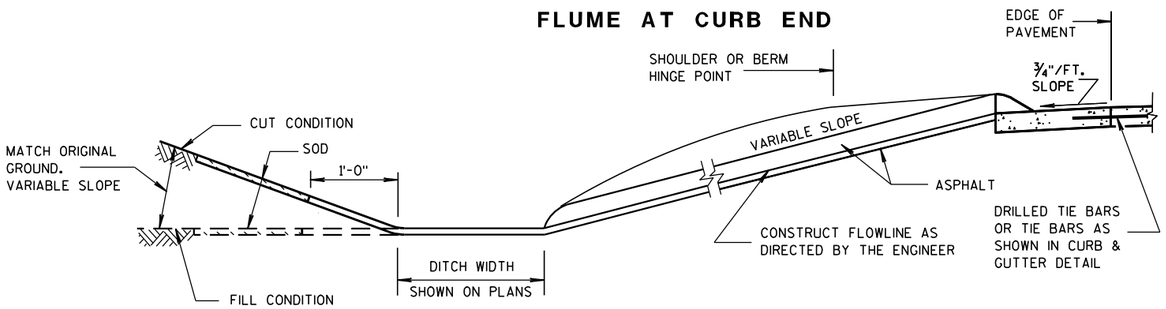
S.D.D. 8 D 1-19

ASPHALTIC FLUME

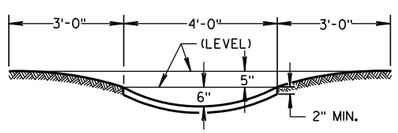


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

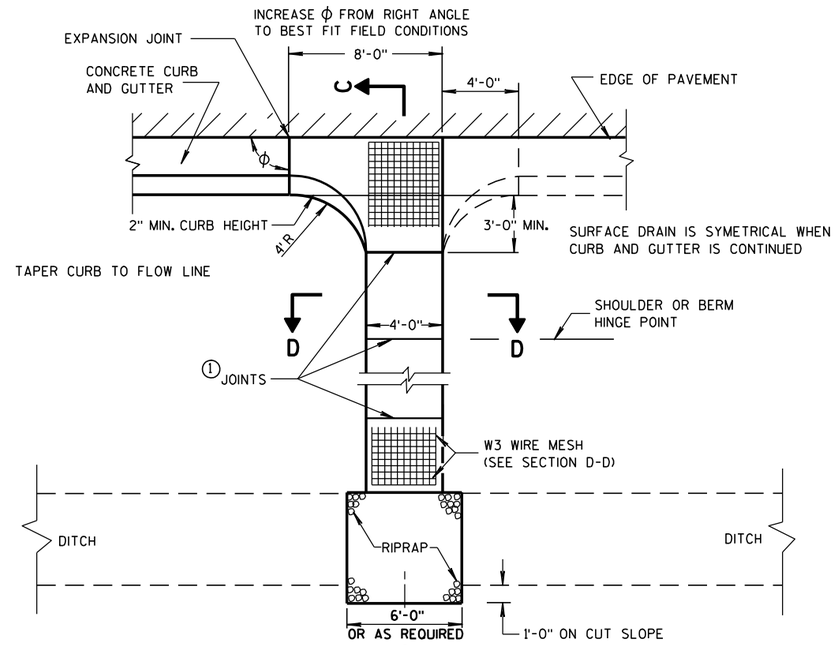
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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

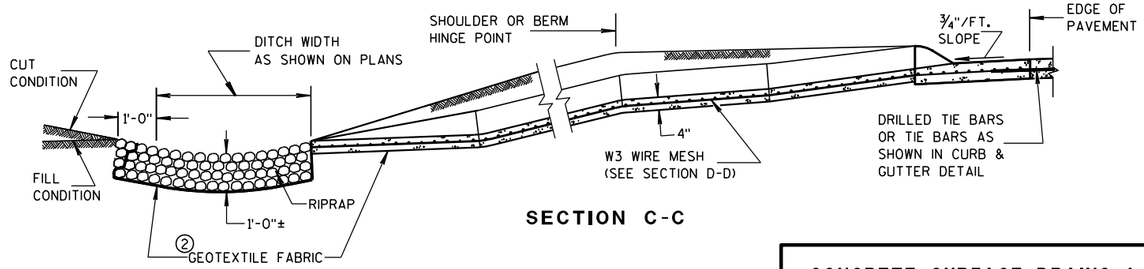
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

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

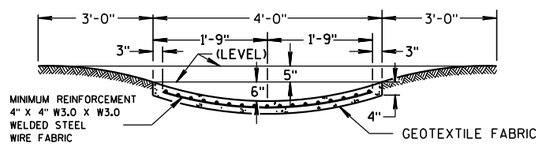
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
322
MENT
FHWA

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S.D.D. 8 D 4-5

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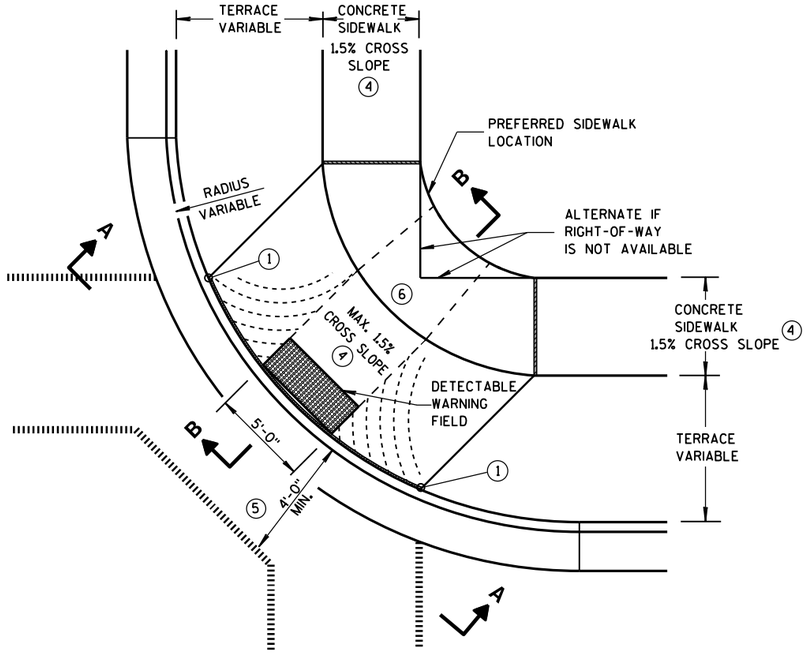
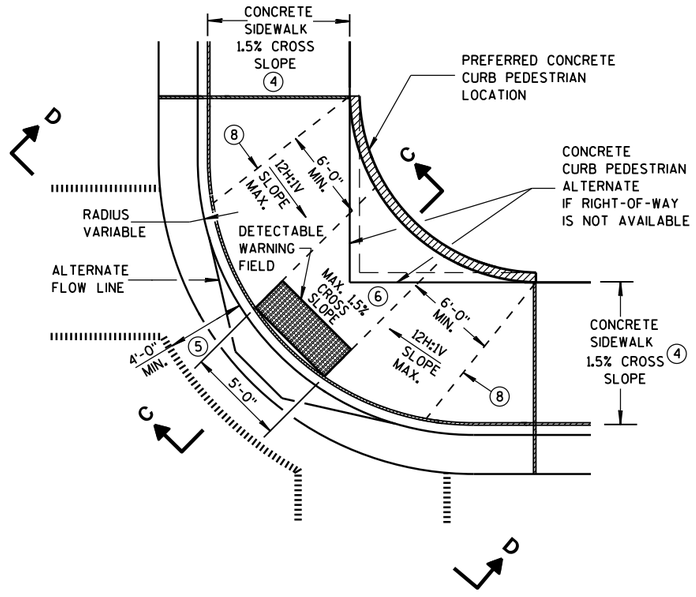
S.D.D. 8 D 4-5



PLAN VIEW

TYPE 1 RAMP

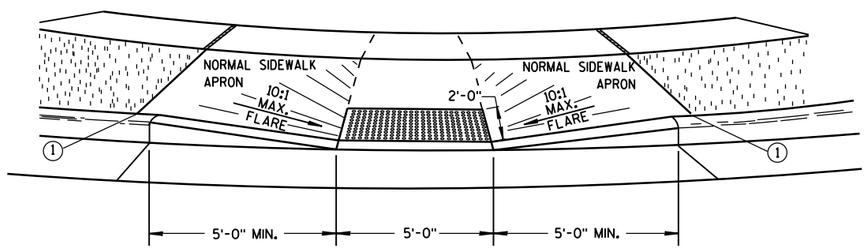
(CENTER OF CORNER RADIUS)



PLAN VIEW

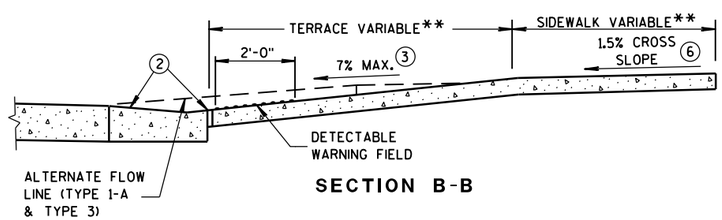
TYPE 1-A RAMP

(NO TERRACE)

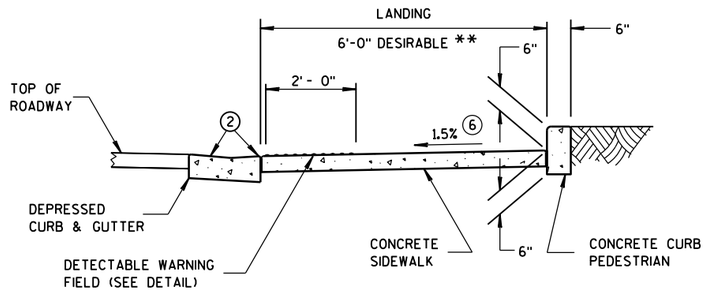


VIEW A-A

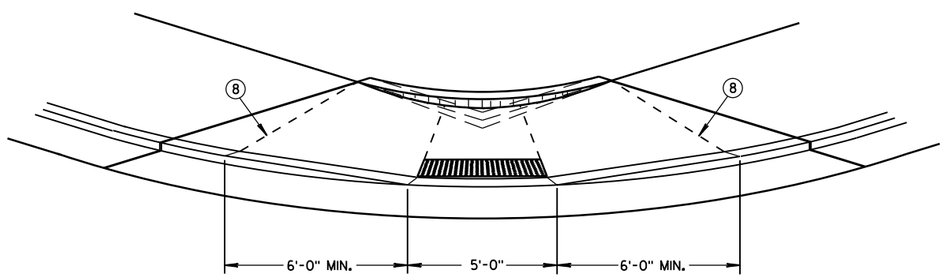
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



SECTION C-C



VIEW D-D

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.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

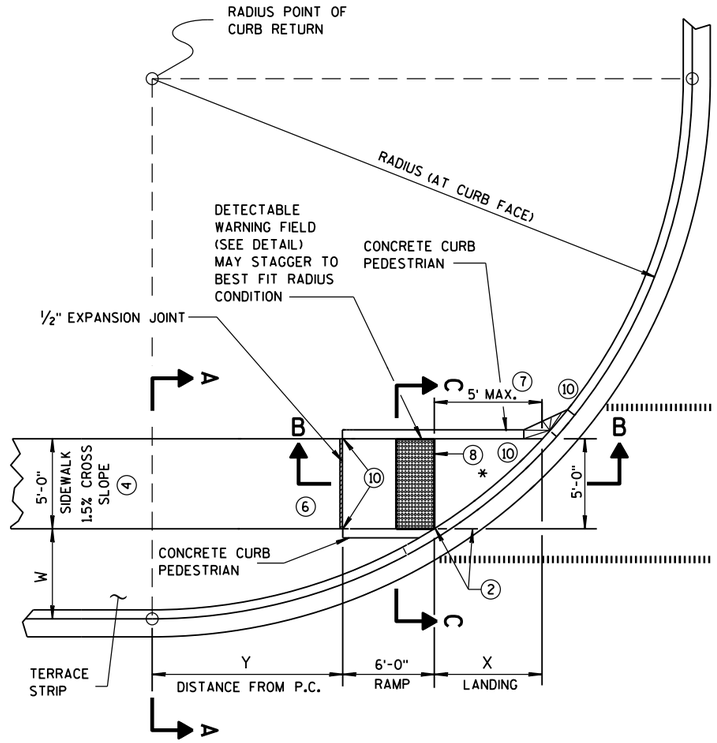
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

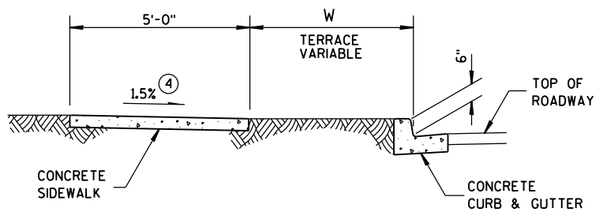
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

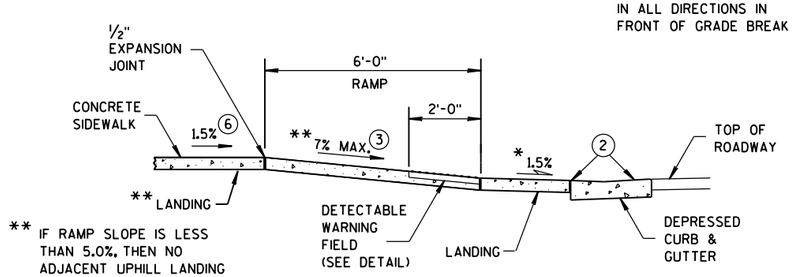
S.D.D. 8 D 5-18a



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



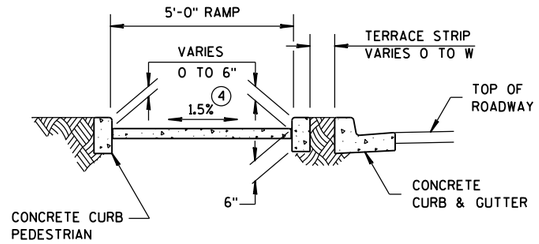
SECTION B-B FOR TYPE 4B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)



SECTION C-C FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-6¾"	3'-3"	8'-6¼"
30 FEET	7'-9¼"	5'-10½"	6'-9½"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"
40 FEET	9'-4"	7'-10"	8'-2¾"	10'-3"	7'-4¾"	12'-3¾"	6'-8½"	14'-1¼"	6'-1¾"	15'-8½"
50 FEET	10'-8"	9'-6½"	9'-5½"	12'-3¼"	8'-6½"	14'-7½"	7'-9¾"	16'-8¼"	7'-2½"	18'-6¼"
60 FEET	11'-10¼"	11'-0¾"	10'-6½"	14'-1¼"	9'-6½"	16'-8½"	8'-9¼"	18'-11¾"	8'-1½"	21'-0½"

INTERMEDIATE RADII CAN BE INTERPOLATED

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

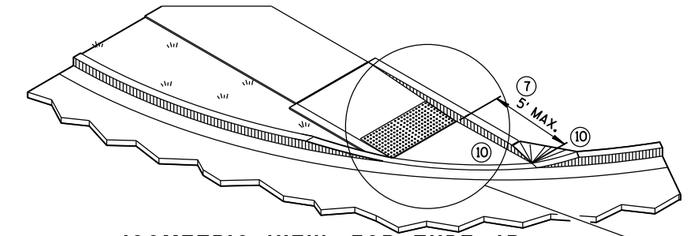
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

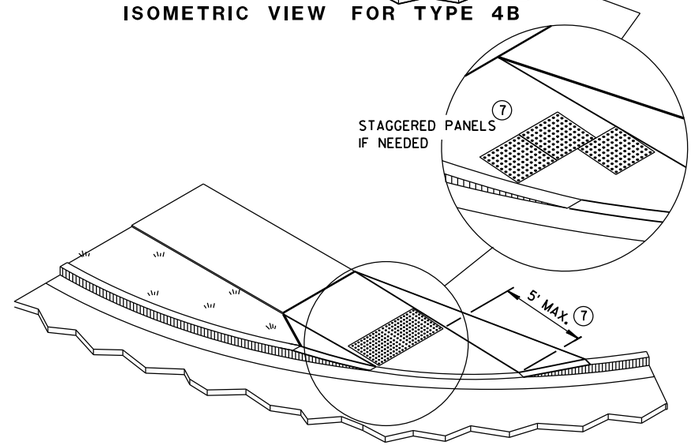
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. USE EQUAL-SIZE PANELS TO DEVELOP OVERLAPPING, STAGGERED ROWS. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

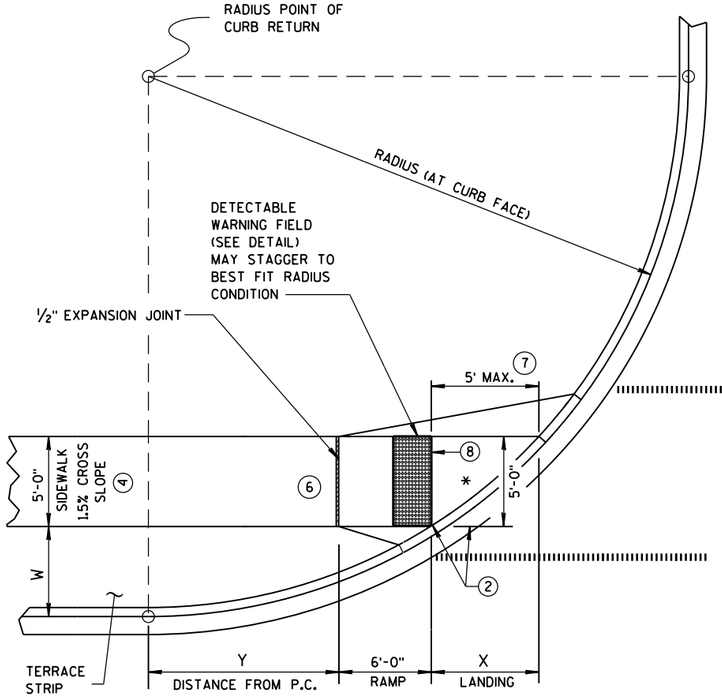
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1



CURB RAMP TYPE 4B1
PLAN VIEW

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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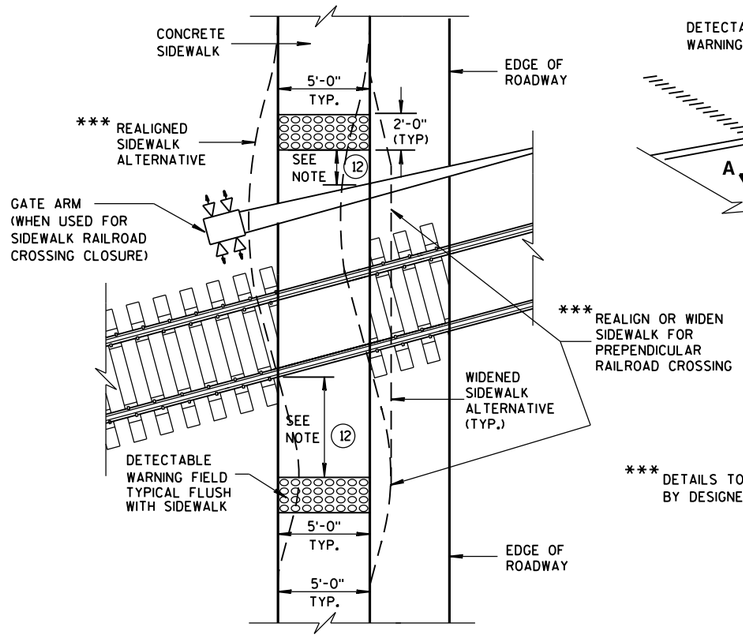
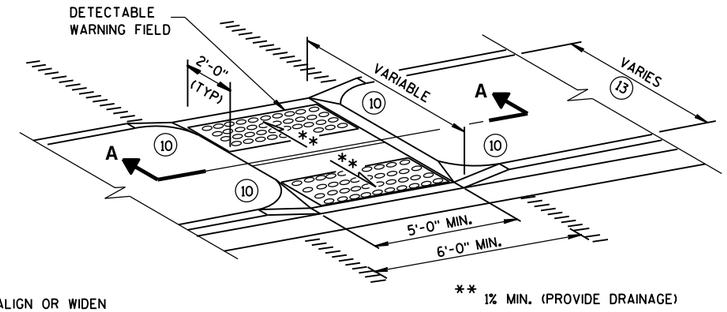
S.D.D. 8 D 5-18d



*** DETAILS TO BE DETERMINED BY DESIGNER

TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



MEDIAN ISLAND NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

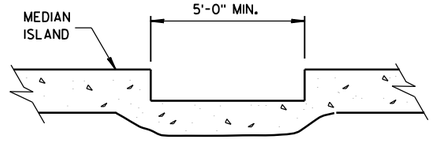
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

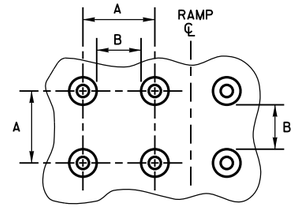
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS IF MEDIAN WIDTH BETWEEN BACK OF CURBS IS LESS THAN 6 FEET.



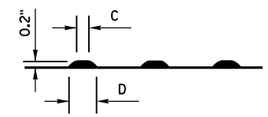
SECTION A-A

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

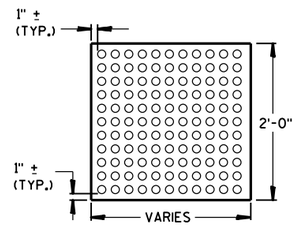


PLAN VIEW



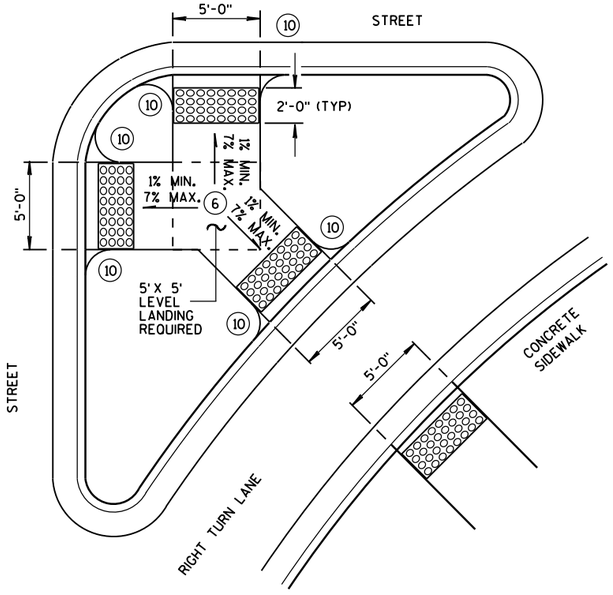
ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

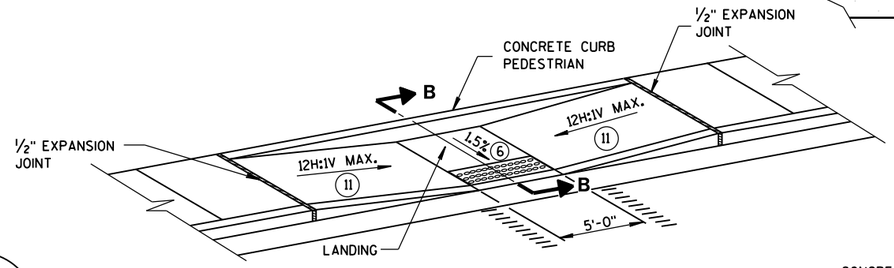


PLAN VIEW
DETECTABLE WARNING FIELD (TYPICAL)

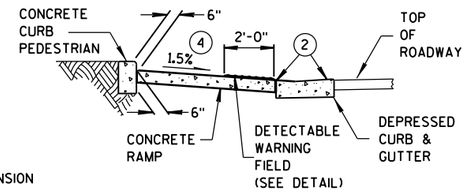
REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



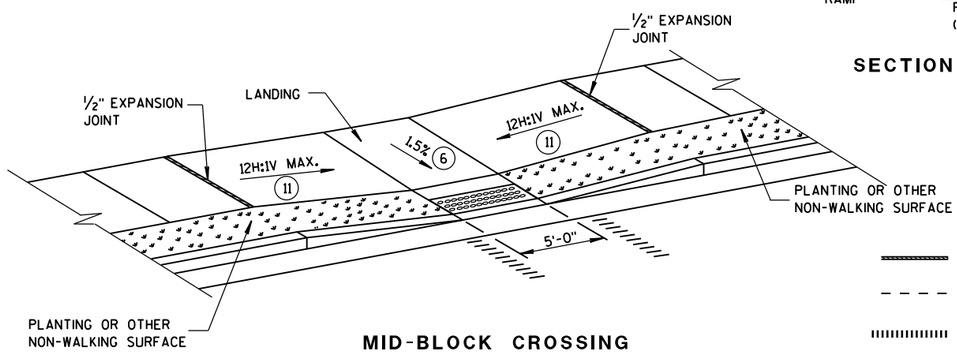
TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7A



SECTION B-B



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERV

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S.D.D. 8 D 5-18e

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S.D.D. 8 D 5-18e

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) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

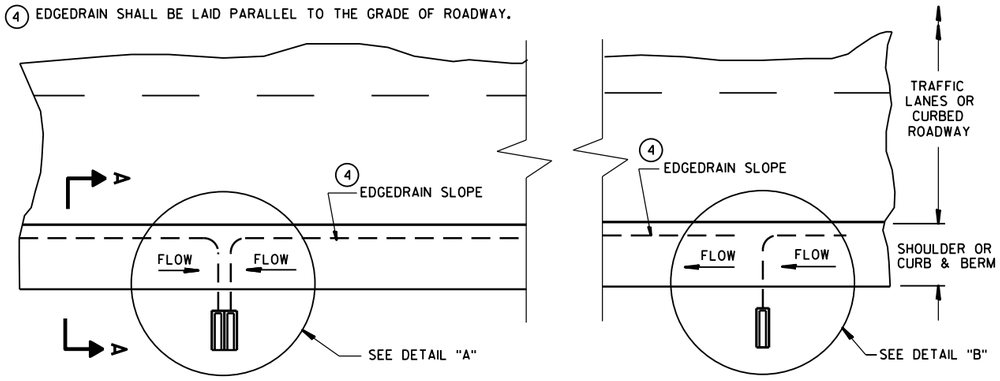
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

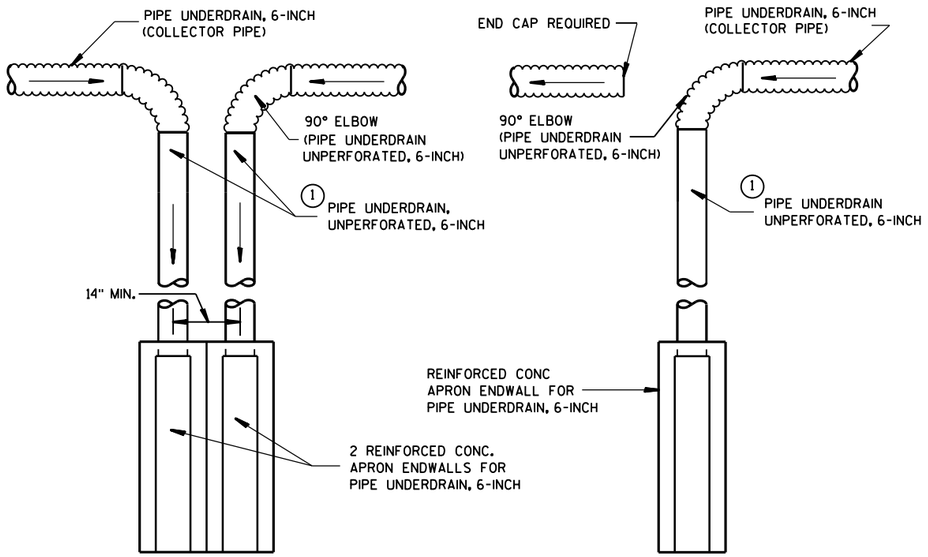
(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS

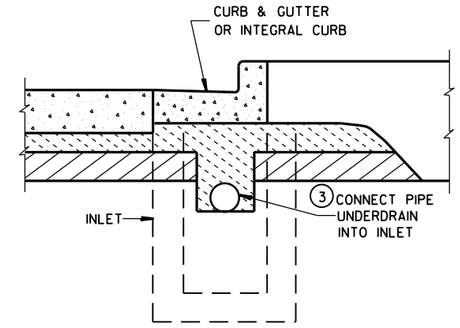
(EDGEDRAIN OUTLETS TO ROADSIDE) (2)



DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS

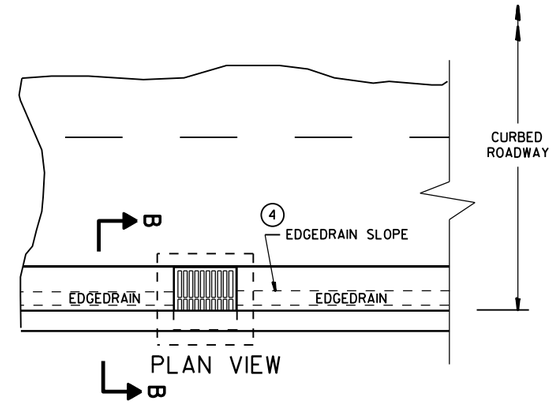
DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



SECTION B-B

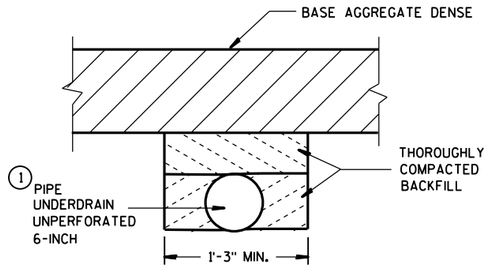
URBAN CROSS SECTION



PLAN VIEW

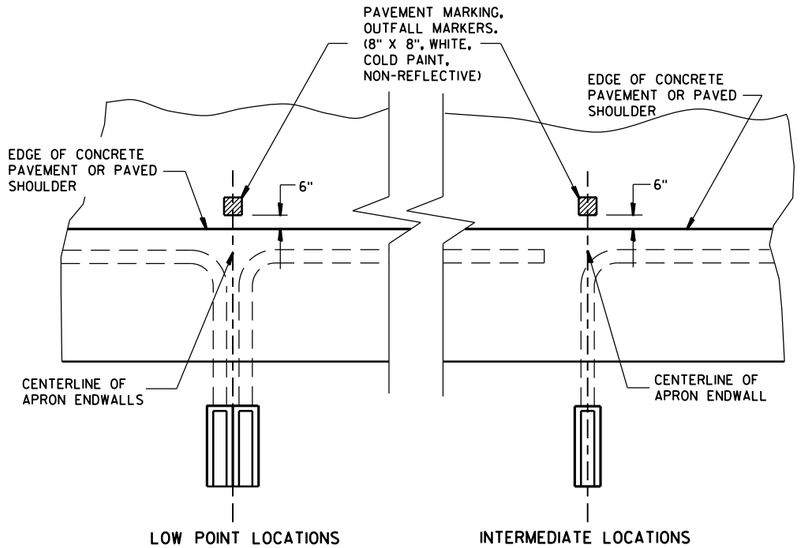
ROADWAY WITH CURBS

(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)



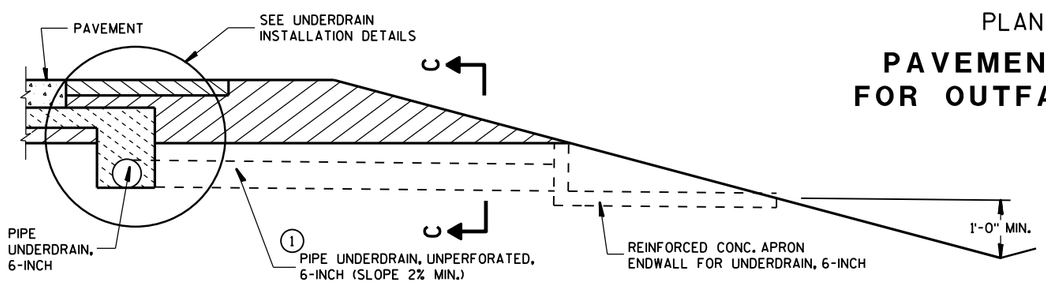
SECTION C-C

(TRENCH FOR OUTFALL PIPE)



PLAN VIEW

PAVEMENT MARKING FOR OUTFALL MARKERS



SECTION A-A

RURAL CROSS SECTION

EDGEDRAIN OUTLET AND OUTFALL MARKERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 15-5a

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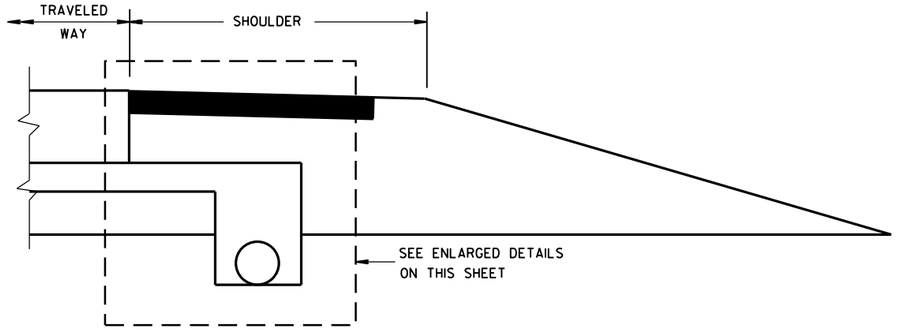
S.D.D. 8 D 15-5a



RURAL CROSS SECTION

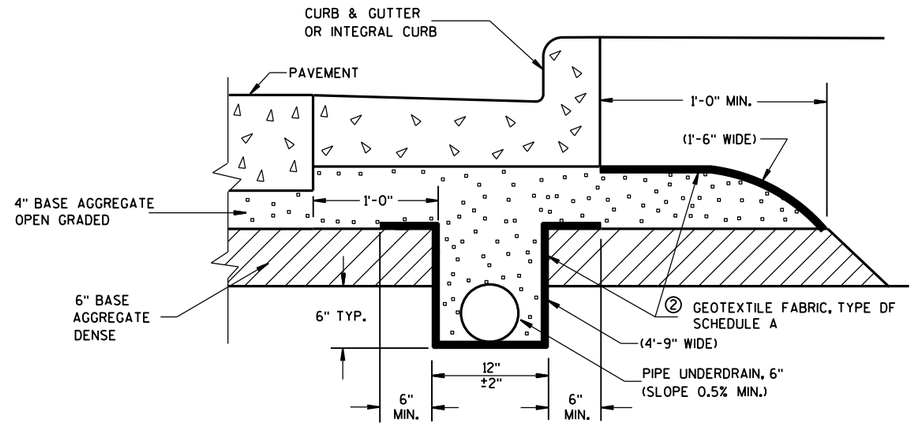
GENERAL NOTES

THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

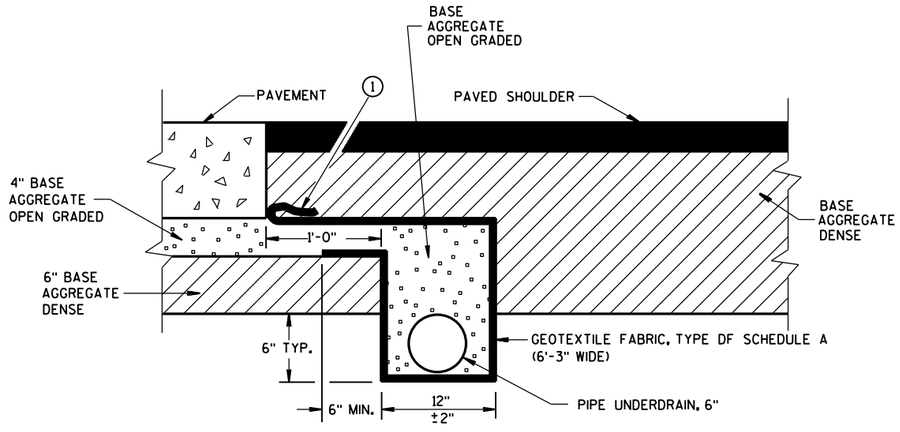
PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

① FOLD OVER EXCESS GEOTEXTILE FABRIC AT THIS LOCATION.

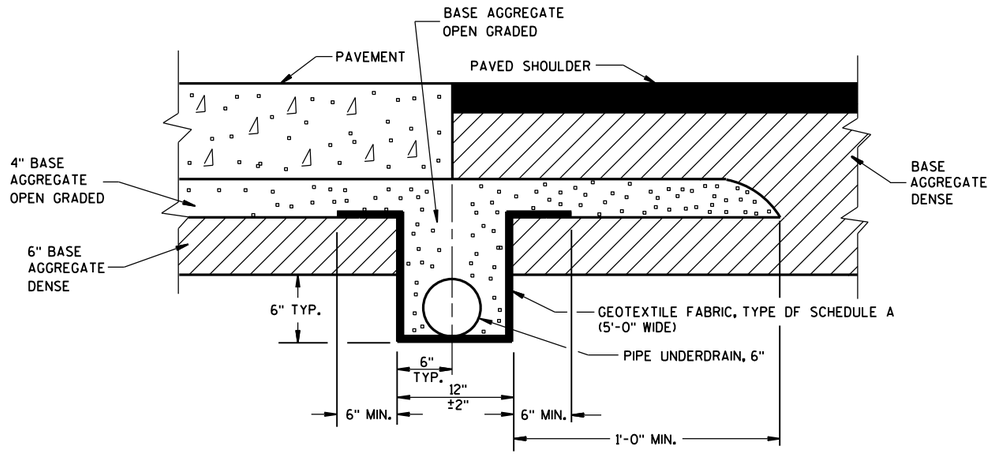
② TOTAL FABRIC WIDTH IS 6'-3" FOR PAYMENT.



EDGEDRAIN IN URBAN ROADWAY



POST PAVING INSTALLATION
(QUANTITIES ARE BASED ON THIS DETAIL)



PRE-PAVING INSTALLATION ALTERNATE

EDGEDRAIN IN RURAL ROADWAY

EDGEDRAIN AND BASE AGGREGATE OPEN GRADED

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPE
FHWA

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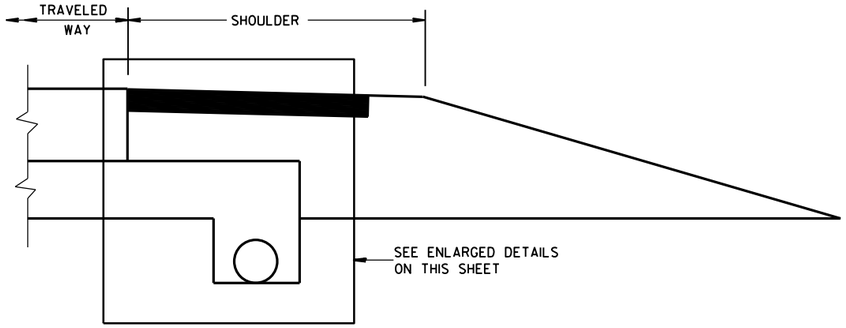
S.D.D. 8 D 15-5b

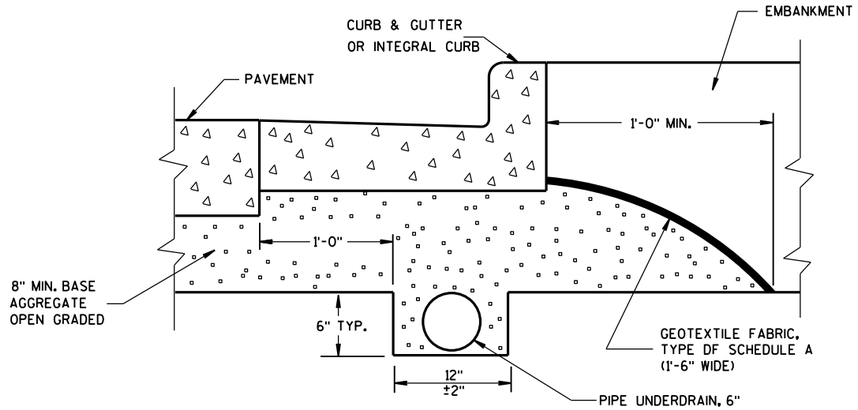


RURAL CROSS SECTION

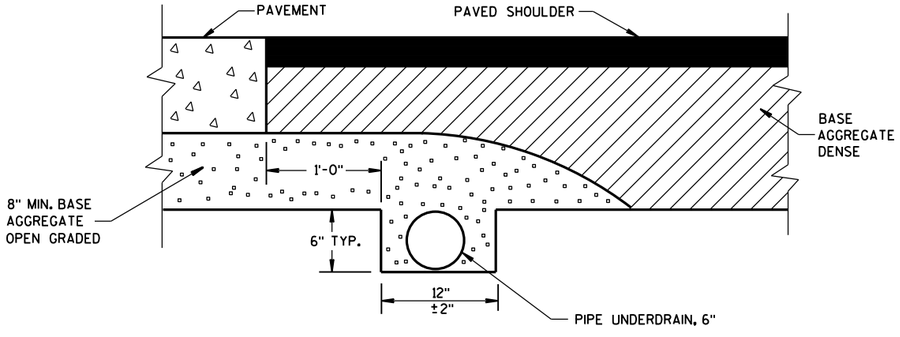
GENERAL NOTES

THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

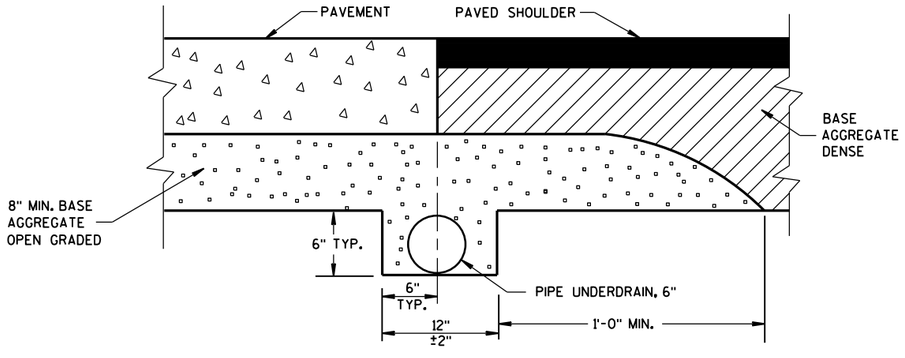
PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.



EDGEDRAIN IN URBAN ROADWAY



POST PAVING INSTALLATION
(QUANTITIES ARE BASED ON THIS DETAIL)



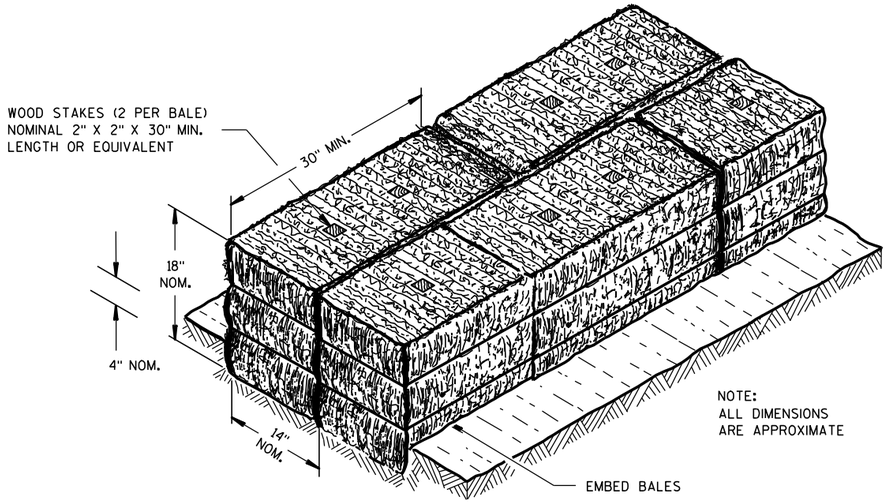
PRE-PAVING INSTALLATION ALTERNATIVE

EDGEDRAIN IN RURAL ROADWAY

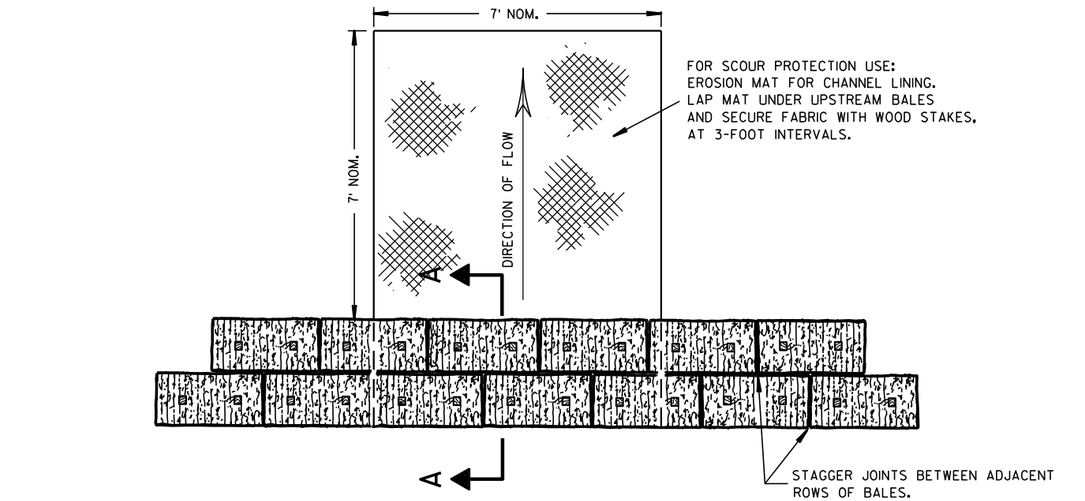
6

EDGEDRAIN AND BASE AGGREGATE OPEN GRADED	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept. 2015	/S/ Peter Kemp, P.E.
DATE	PAVEMENT SUPE
FHWA	

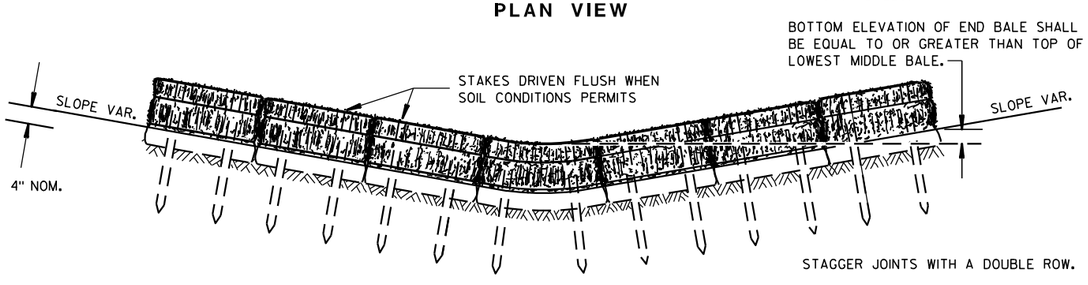
S.D.D. 8 D 15-5c



SECTION A-A



PLAN VIEW



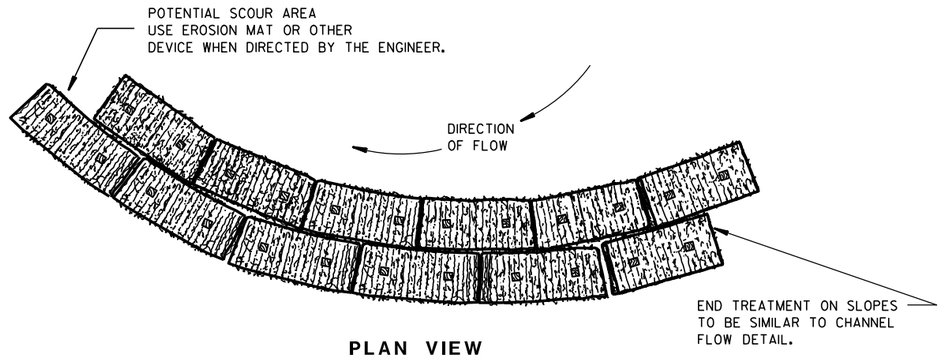
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

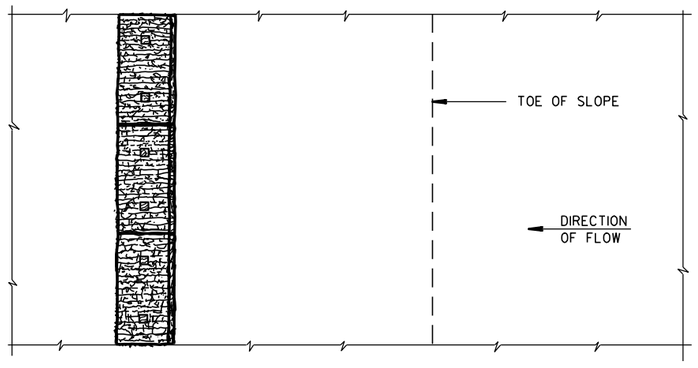
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

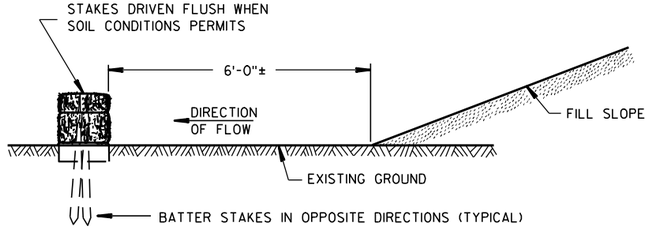


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

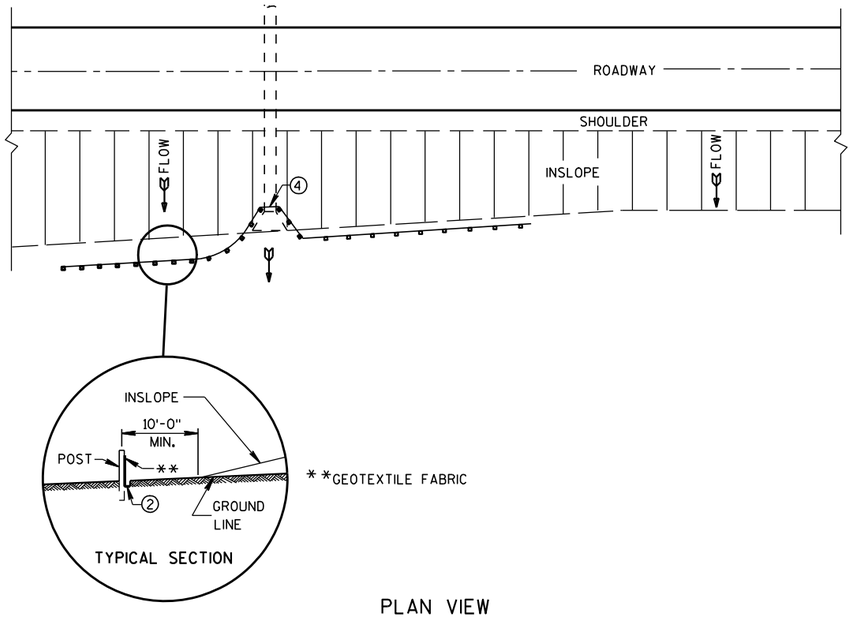
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

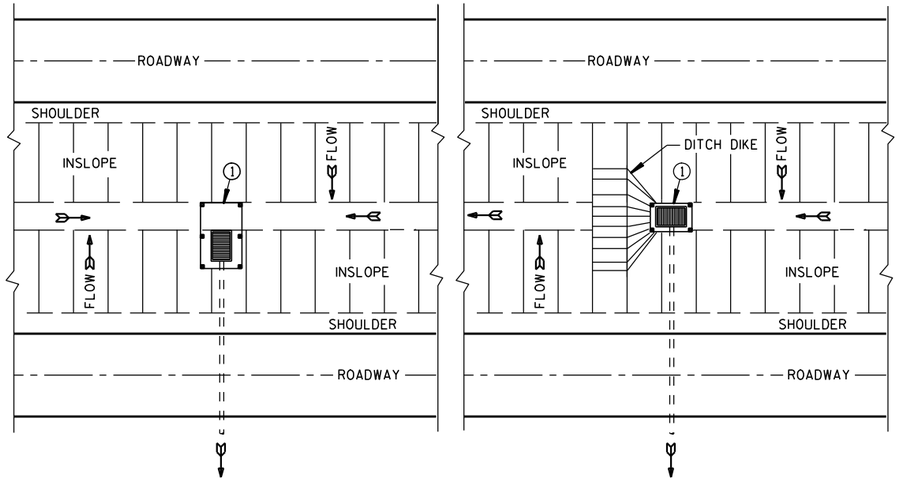
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



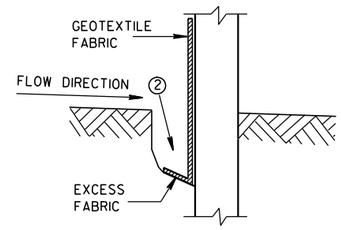
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

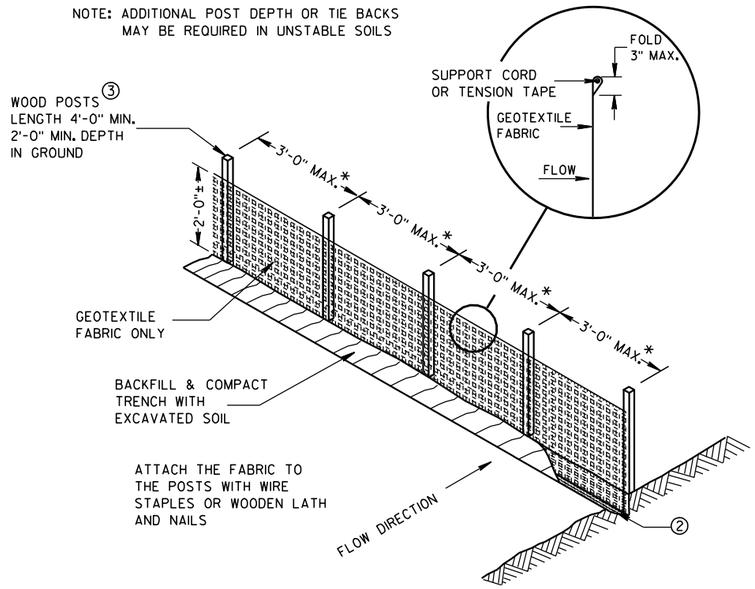
GENERAL NOTES

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

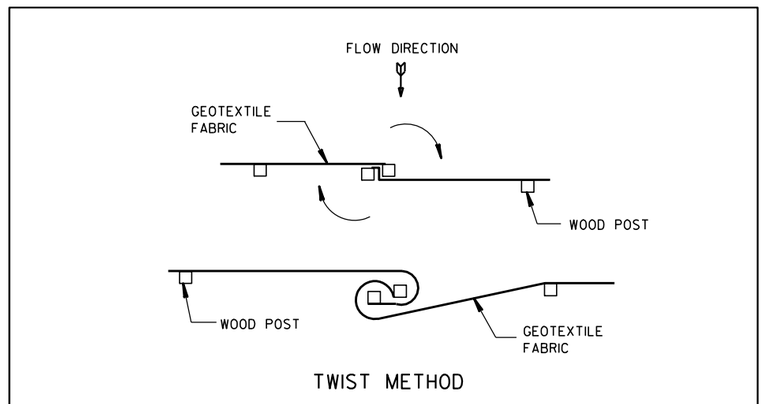
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



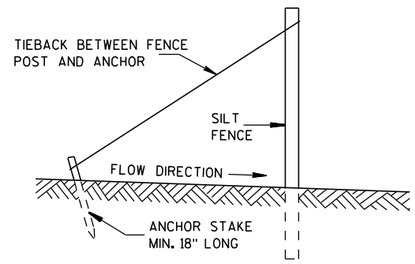
TRENCH DETAIL



SILT FENCE



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

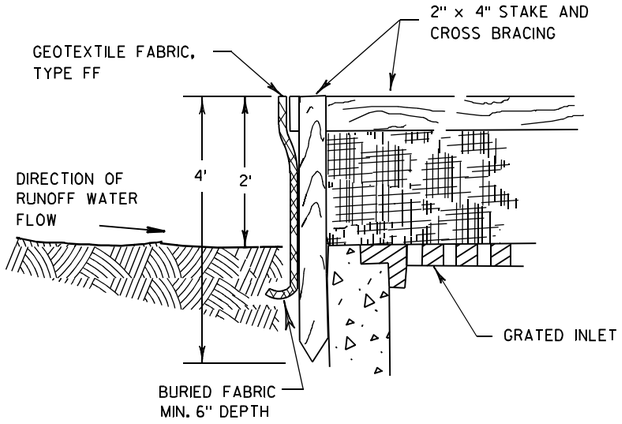
330

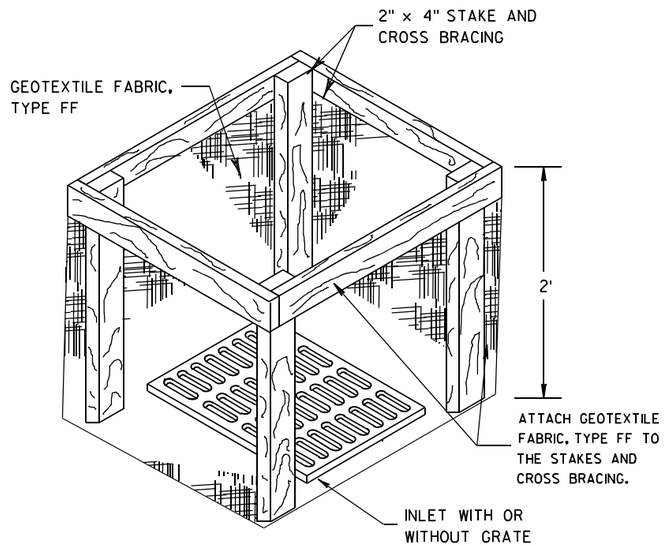
6

S.D.D. 8 E 9-6

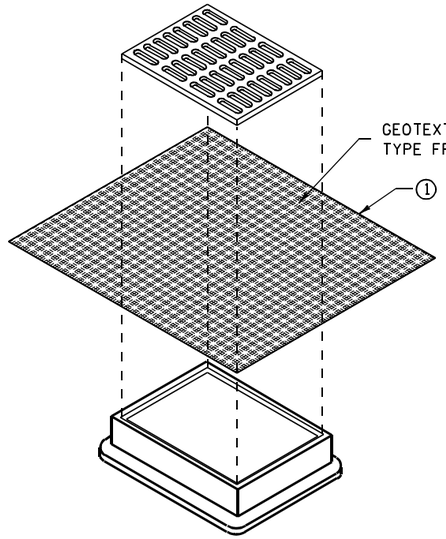
6

S.D.D. 8 E 9-6



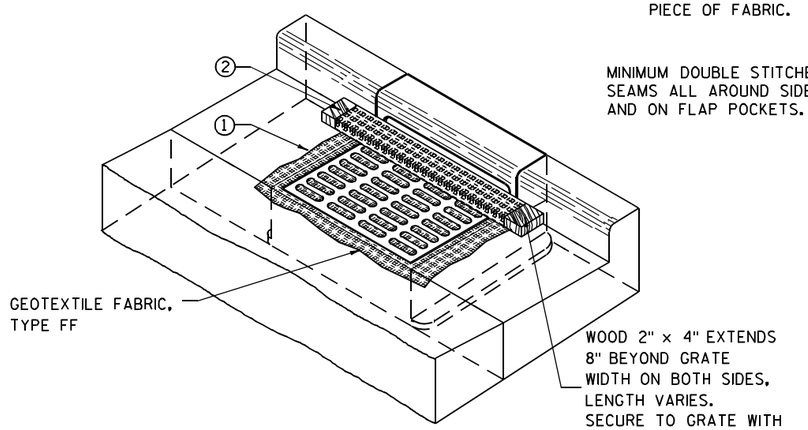


INLET PROTECTION, TYPE A

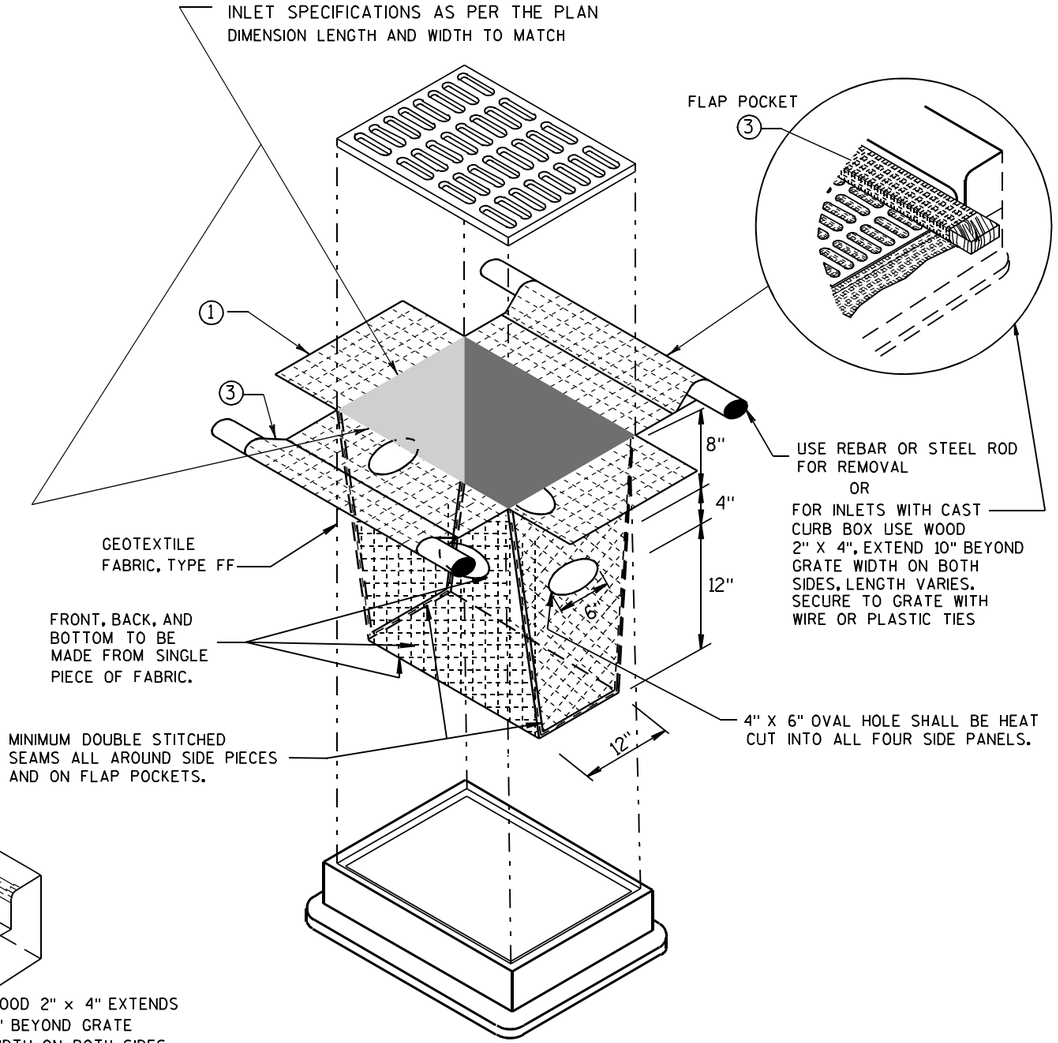


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

GENERAL NOTES

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

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

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

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

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

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

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 8 E 10-2

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S.D.D. 8 E 10-2

METAL APRON ENDWALLS

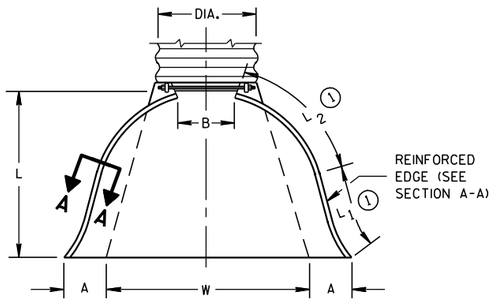
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

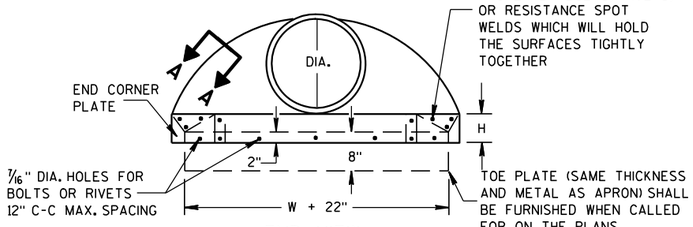
REINFORCED CONCRETE APRON ENDWALLS

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

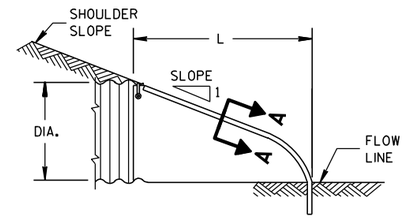
* MINIMUM
** MAXIMUM



PLAN VIEW

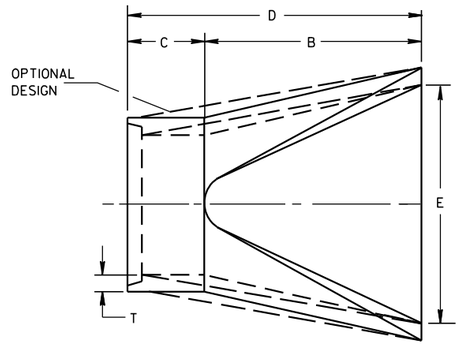


END VIEW

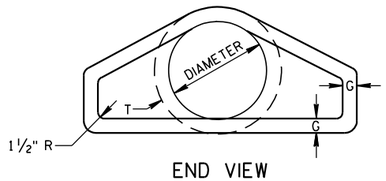


SIDE ELEVATION

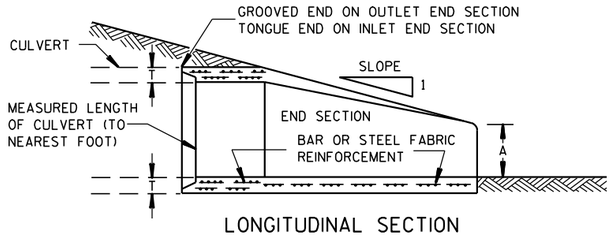
METAL ENDWALLS



PLAN

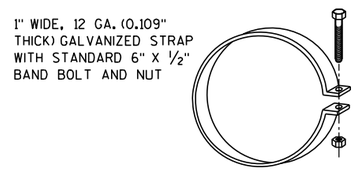


END VIEW



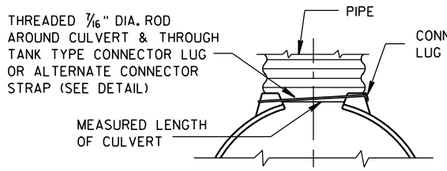
LONGITUDINAL SECTION

CONCRETE ENDWALLS

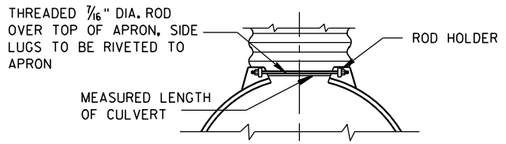


ALTERNATE FOR TYPE 1 CONNECTION

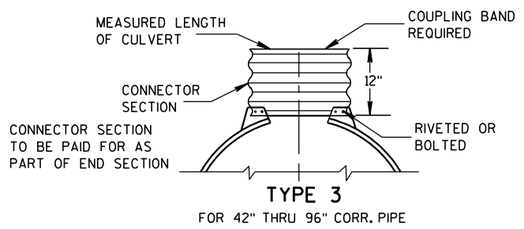
END SECTION CONNECTOR STRAP



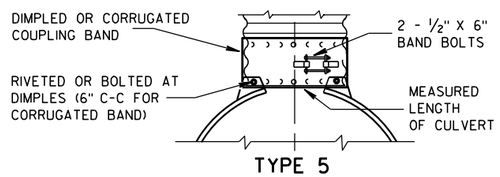
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

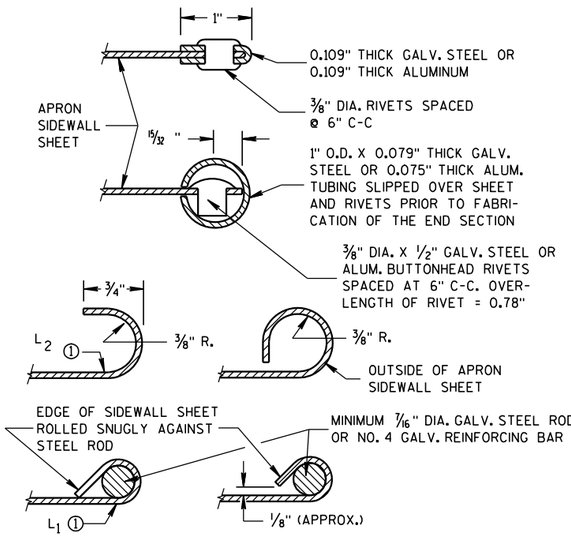
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

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

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

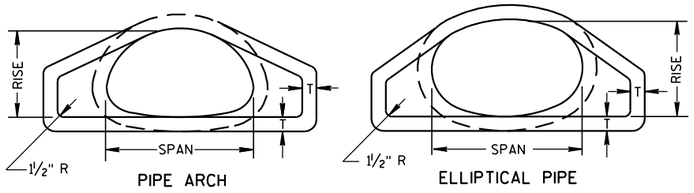
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

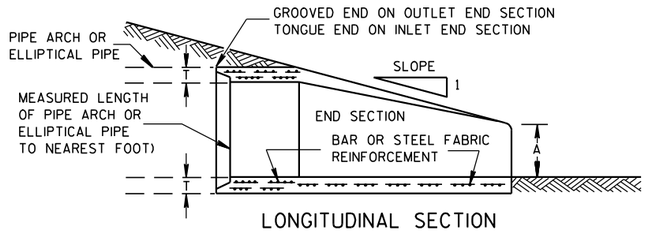
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

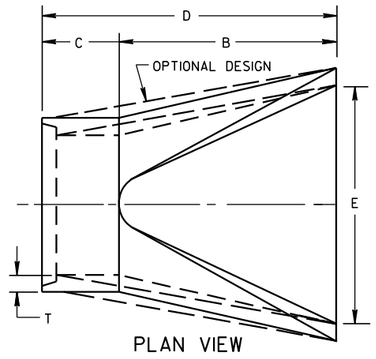
6
S.D.D. 8 F 1-11



END VIEW

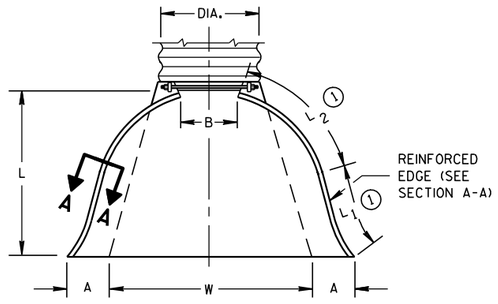


LONGITUDINAL SECTION

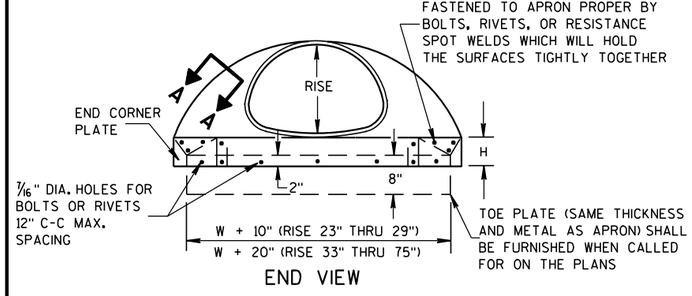


PLAN VIEW

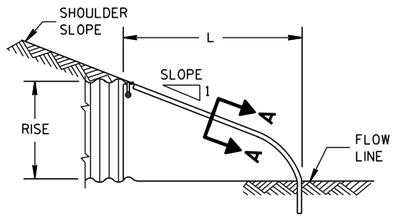
CONCRETE ENDWALLS



PLAN VIEW

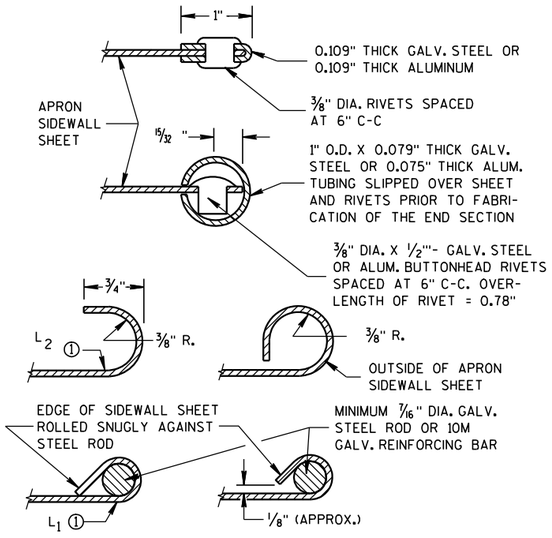


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

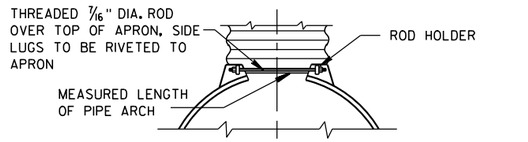
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

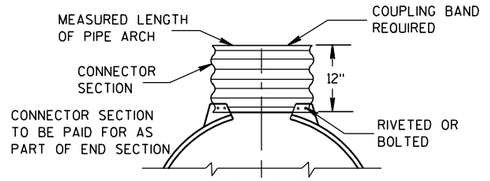
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



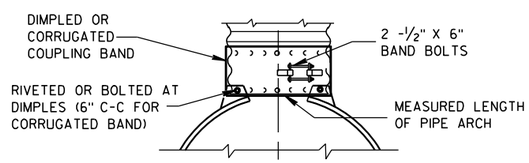
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

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

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

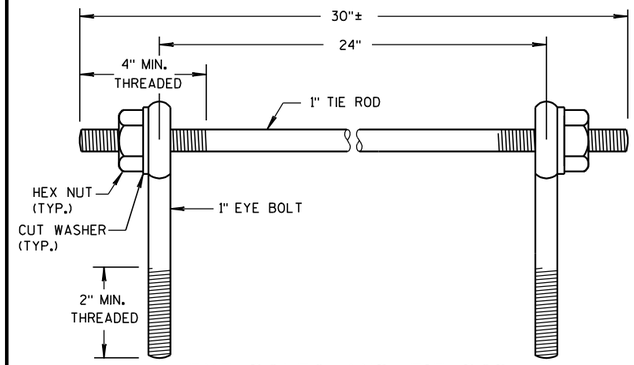
APPROVED

11/30/94 — DATE

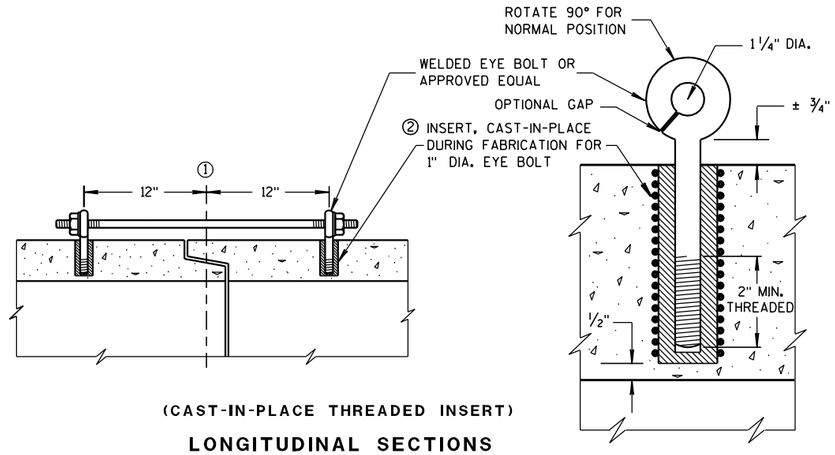
/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6 S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

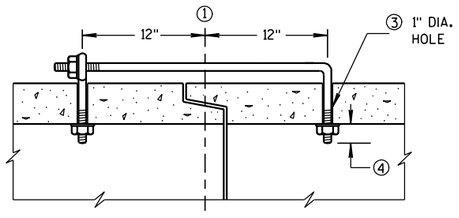
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

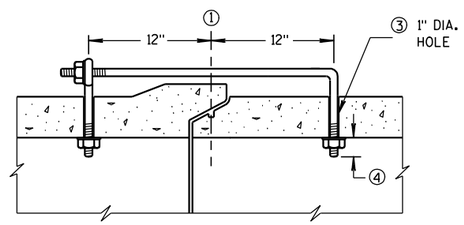
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

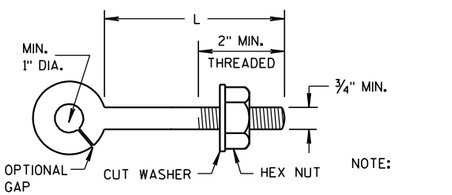


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

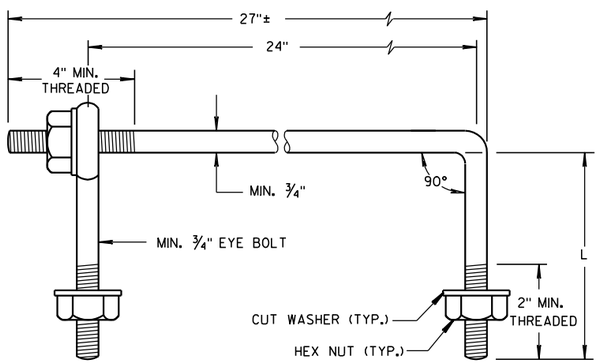
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

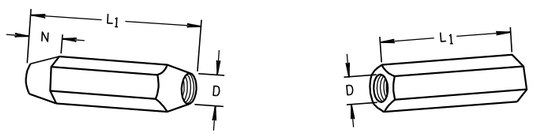
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

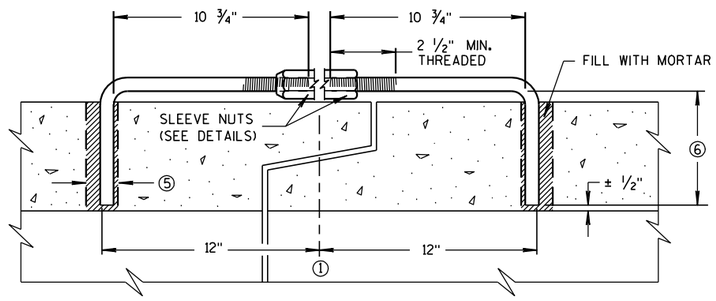
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

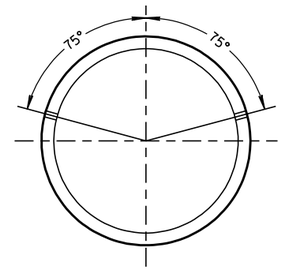
SLEEVE NUTS



LONGITUDINAL SECTION

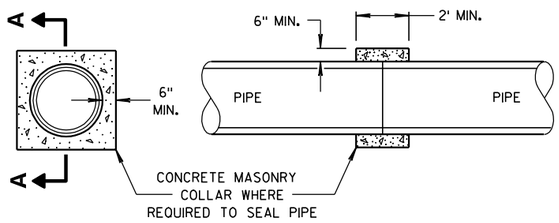
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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
334
FHWA

6

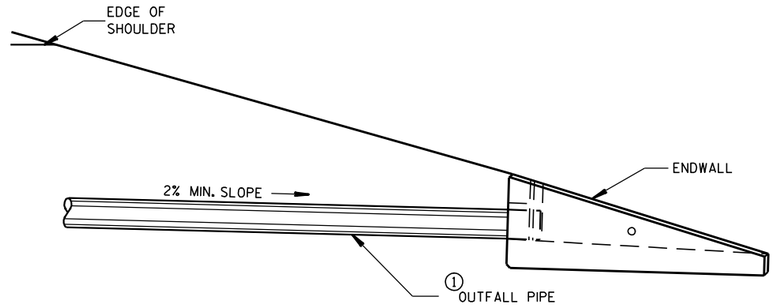
S.D.D. 8 F 4-7

6

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.

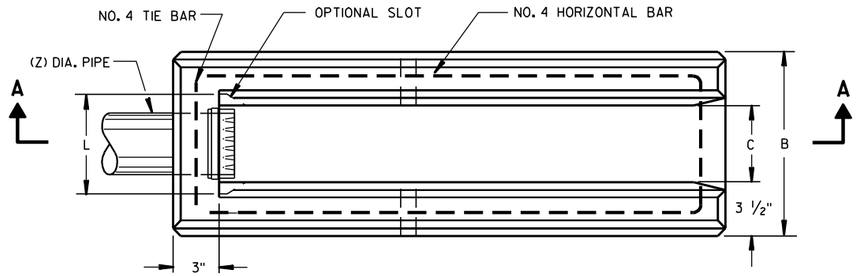
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

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.

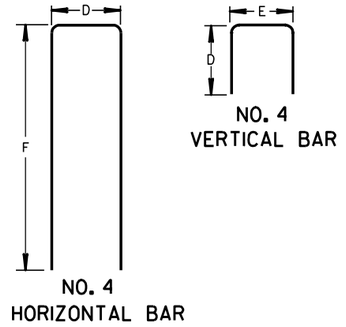
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE 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.

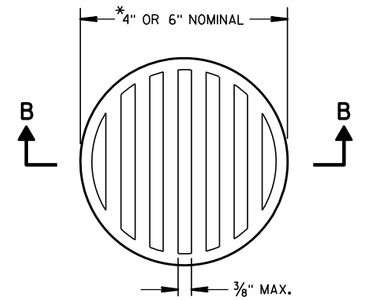
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



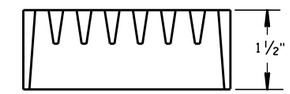
PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS



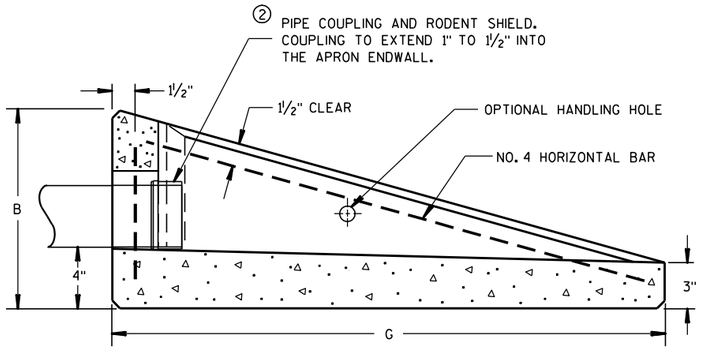
NOTE: ORIENT SHIELD SO SLOTS ARE VERTICAL.



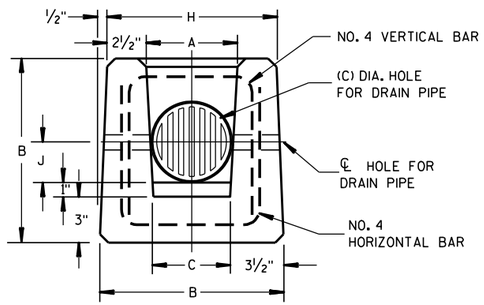
SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.



SECTION A-A



END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN

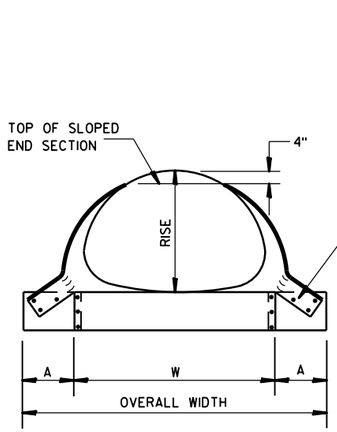
REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

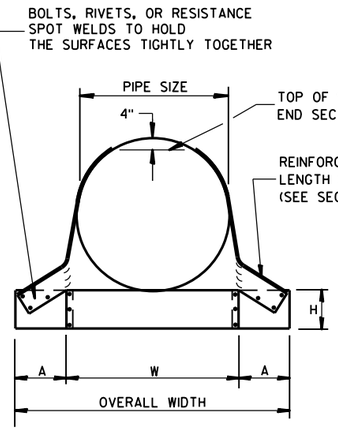
APPROVED
3/10/98 DATE
/S/ Rory L. Rhinehart
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

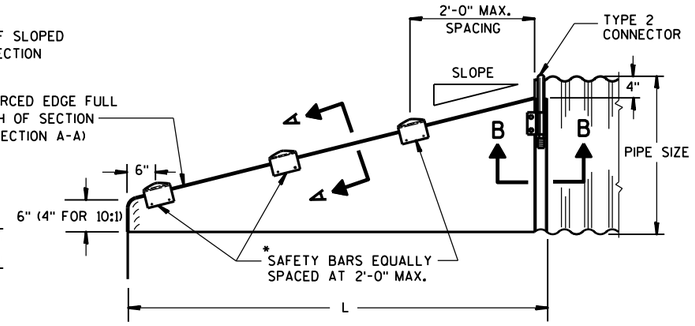
S.D.D. 8 F 6-4



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

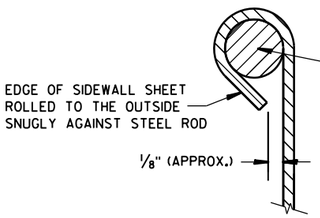
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

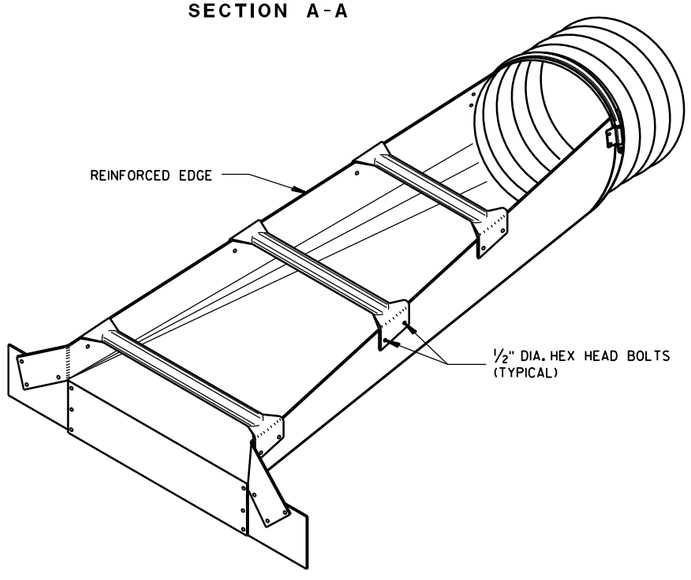
SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



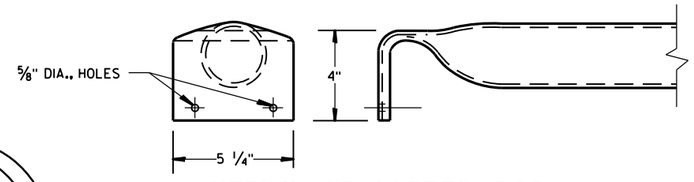
SECTION A-A



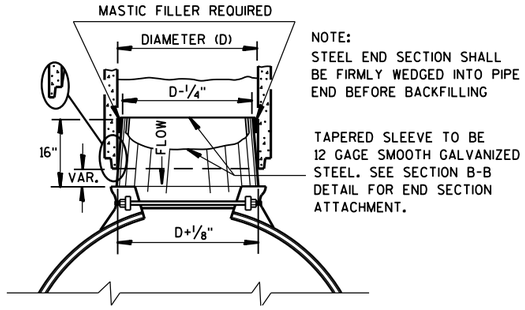
ISOMETRIC VIEW

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.



DETAIL OF SAFETY BAR

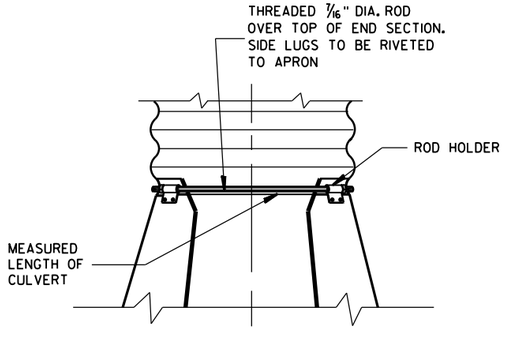


STEEL ADAPTER SLEEVE FOR CONCRETE PIPE

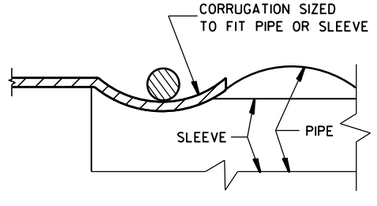
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



TYPE 2
CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 F 7-5

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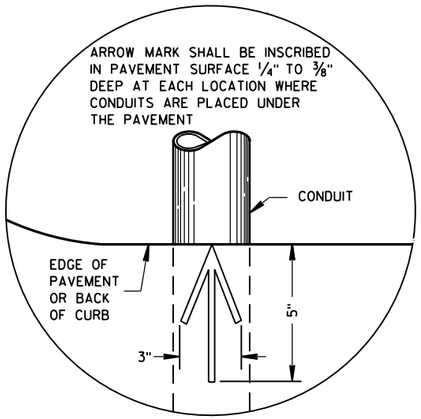
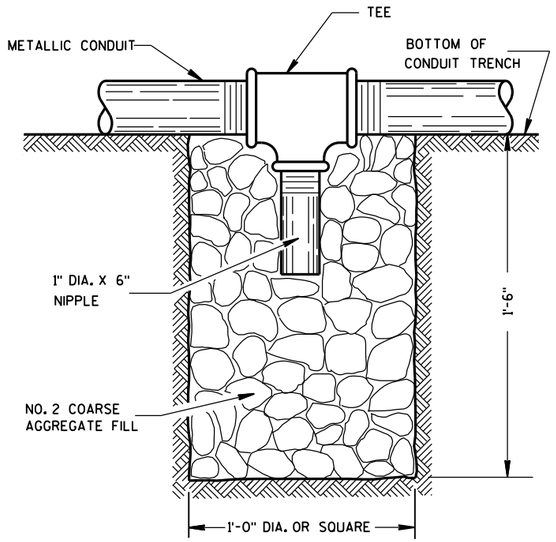
S.D.D. 8 F 7-5



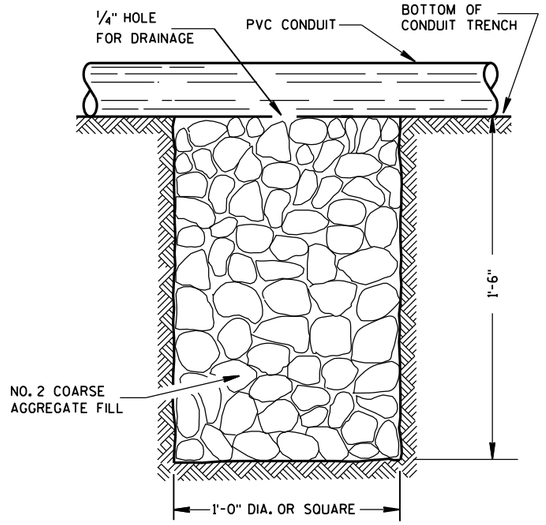
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

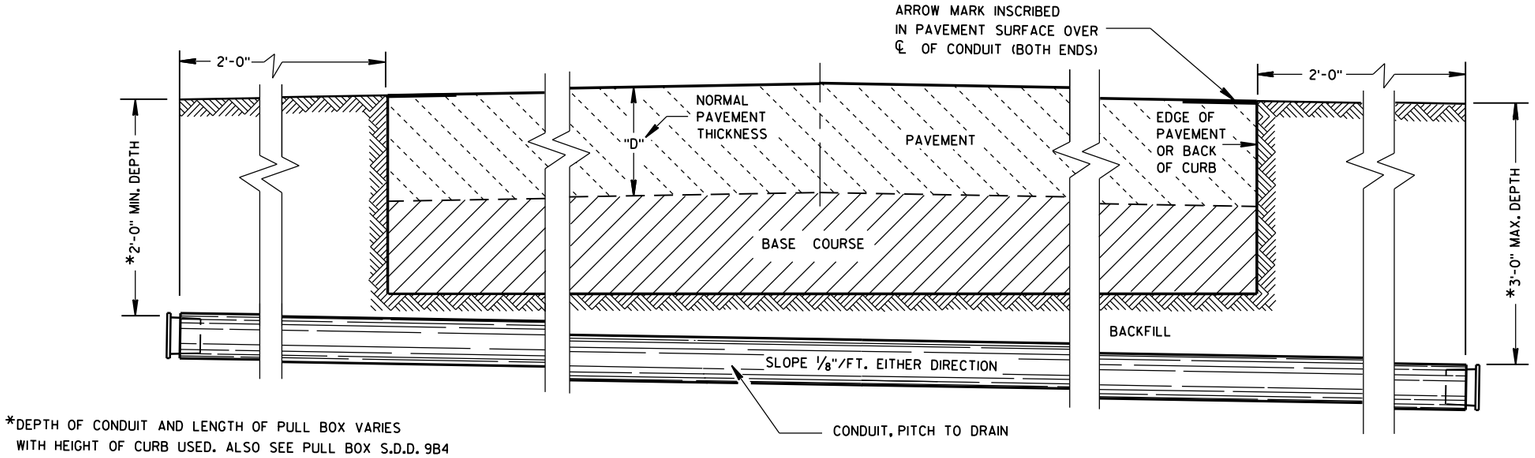
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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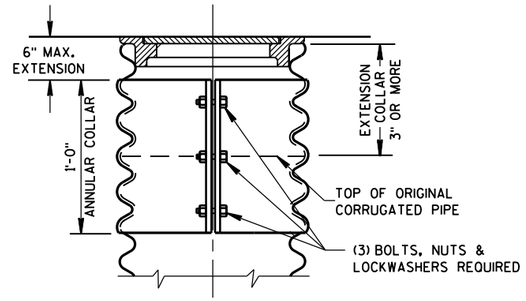
S.D.D. 9 B 2-9

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

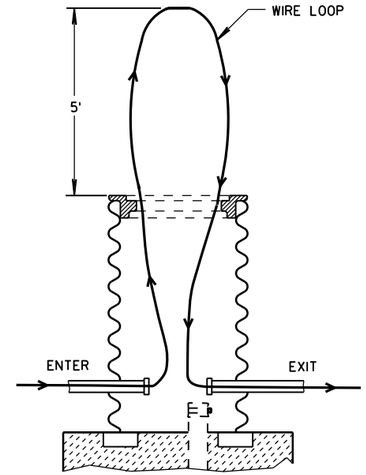
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

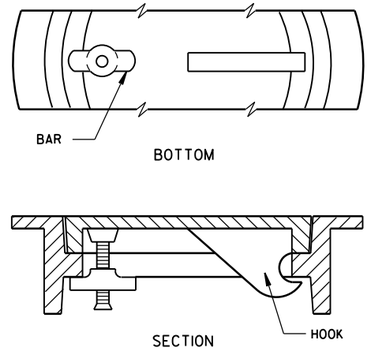
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

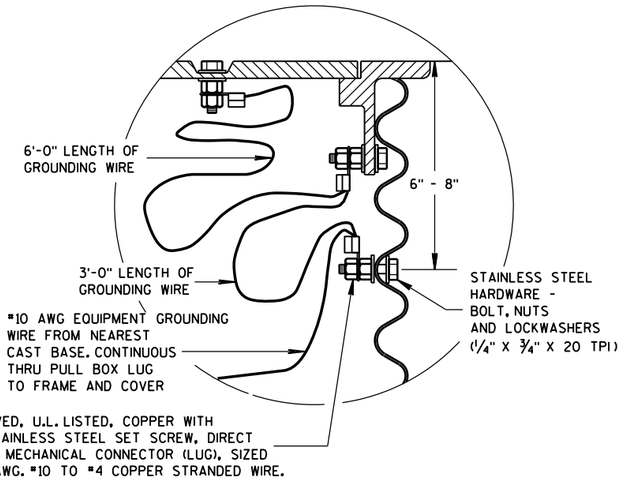


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

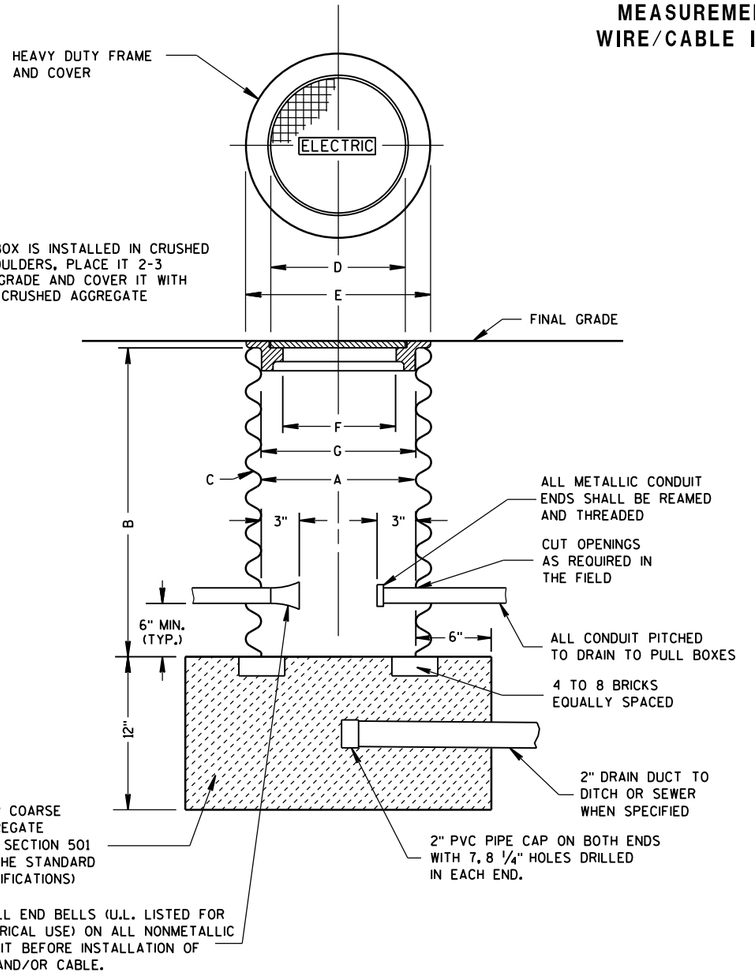


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

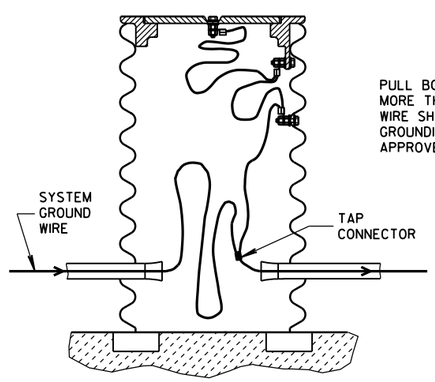
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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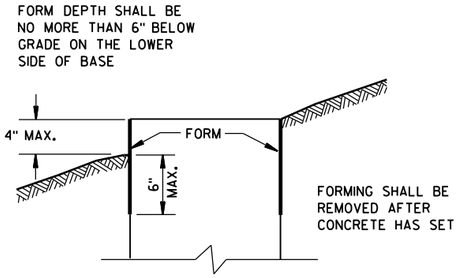
S.D.D. 9 B 4-11



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 1, TYPE 2, TYPE 5, AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

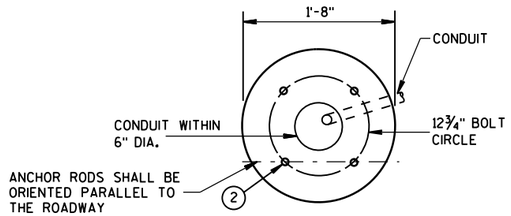
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

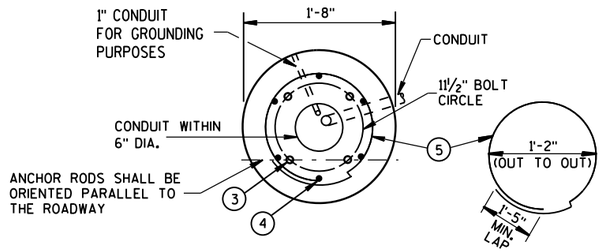
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

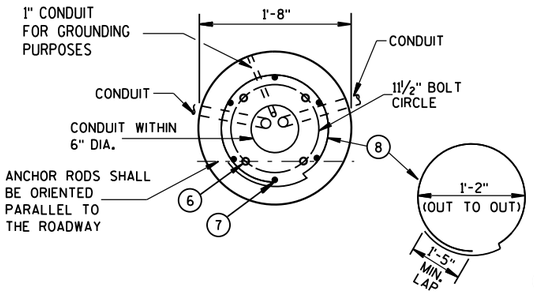
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

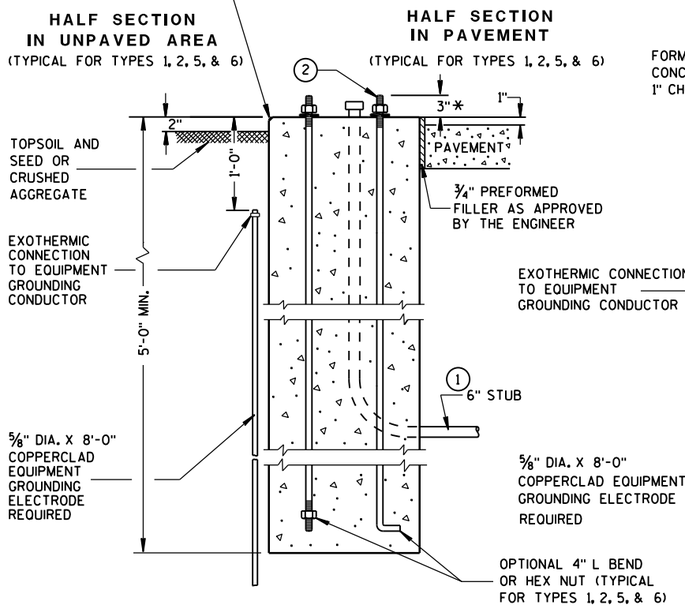
(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

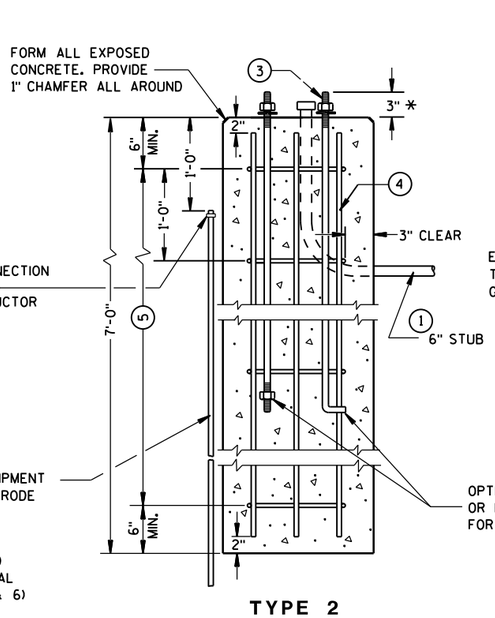
(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.



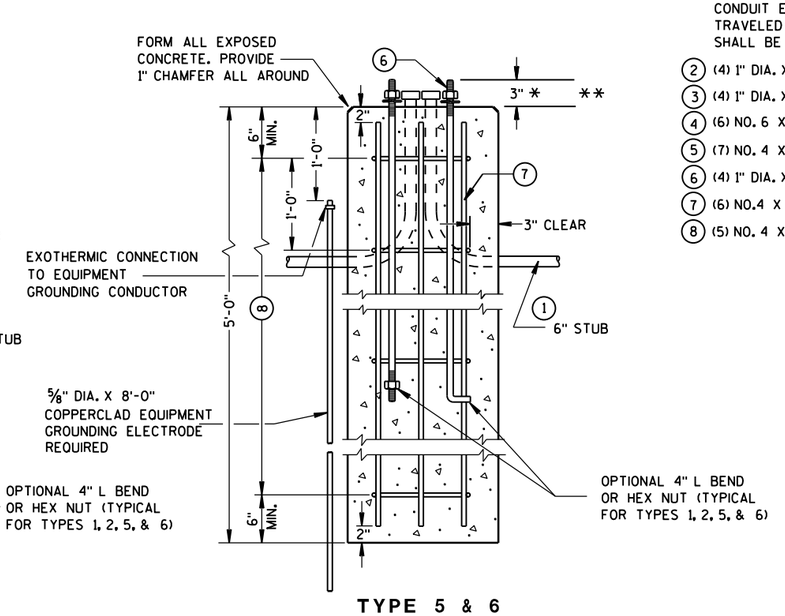








TYPE 2



TYPE 5 & 6

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 2-7

GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

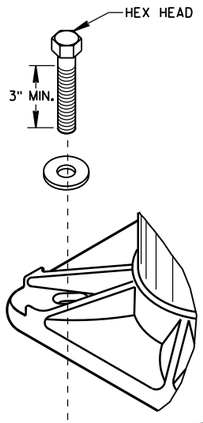
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

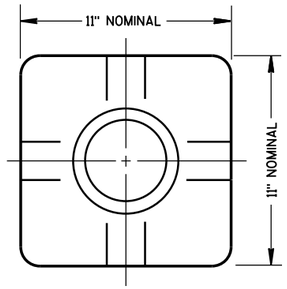
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

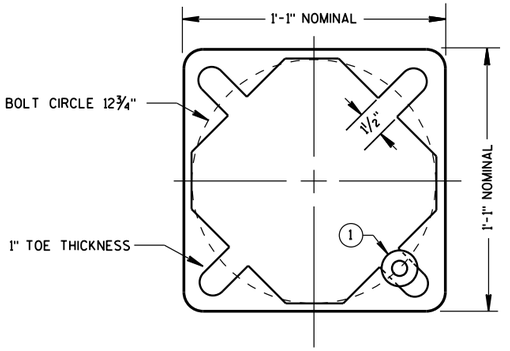
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

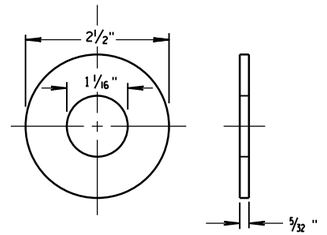




TOP VIEW
(PEDESTAL BASE)

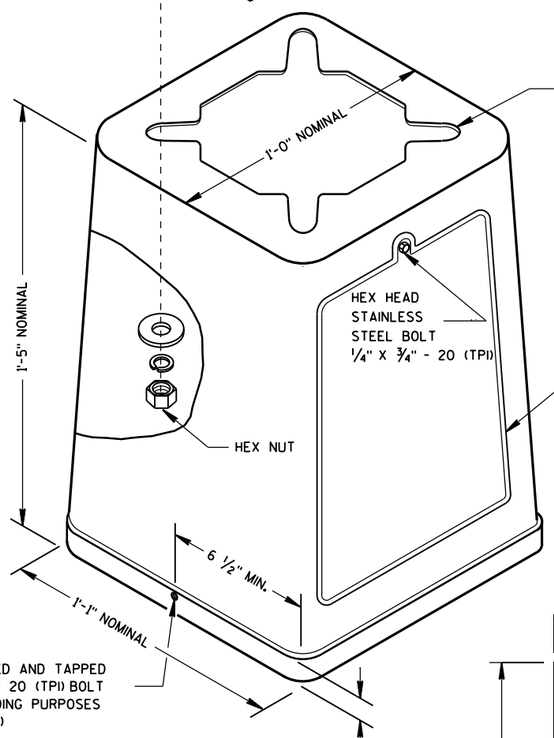


BOTTOM VIEW
(PEDESTAL BASE)

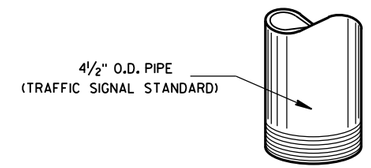


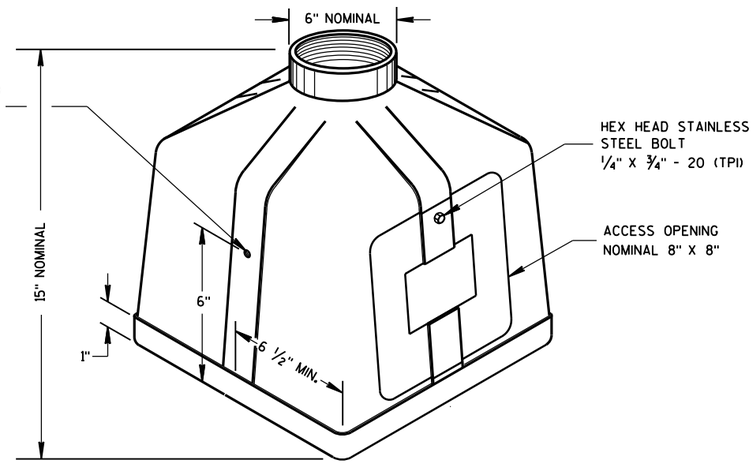
ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)



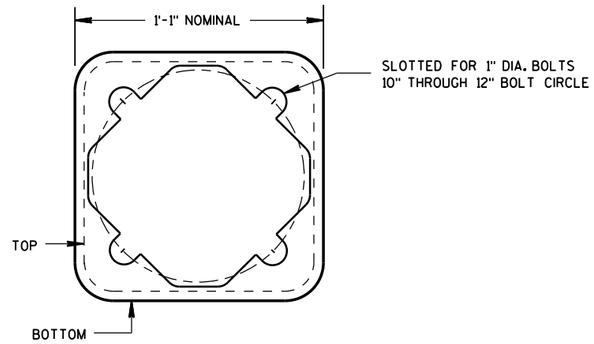
ISOMETRIC VIEW



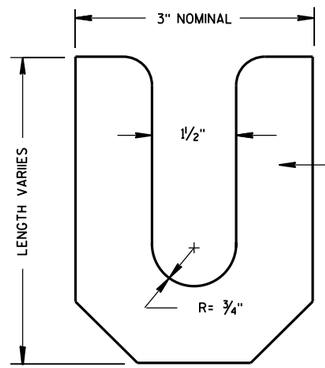


ISOMETRIC VIEW

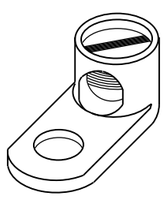
PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)



LEVELING SHIM



TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 340
FHWA

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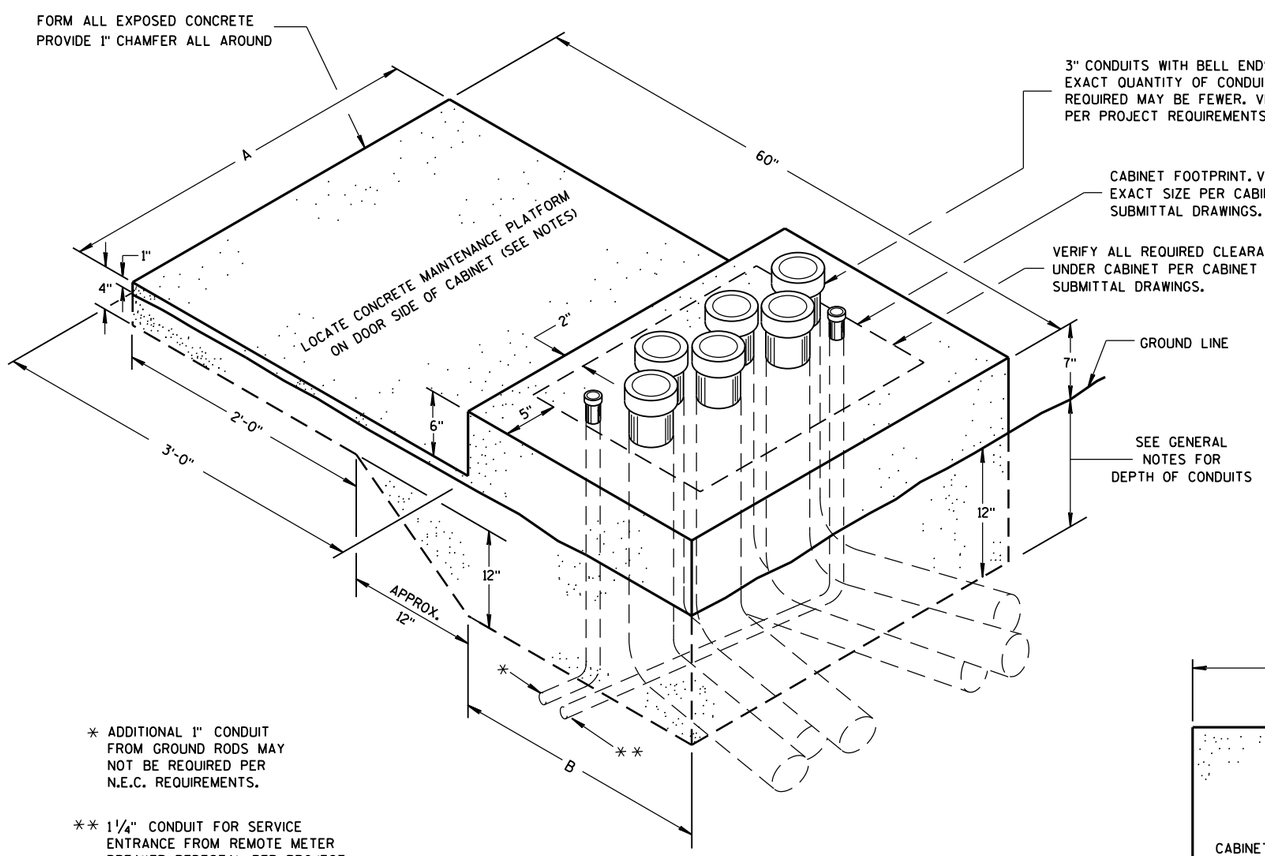
S.D.D. 9 C 3-4

6

S.D.D. 9 C 3-4



* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

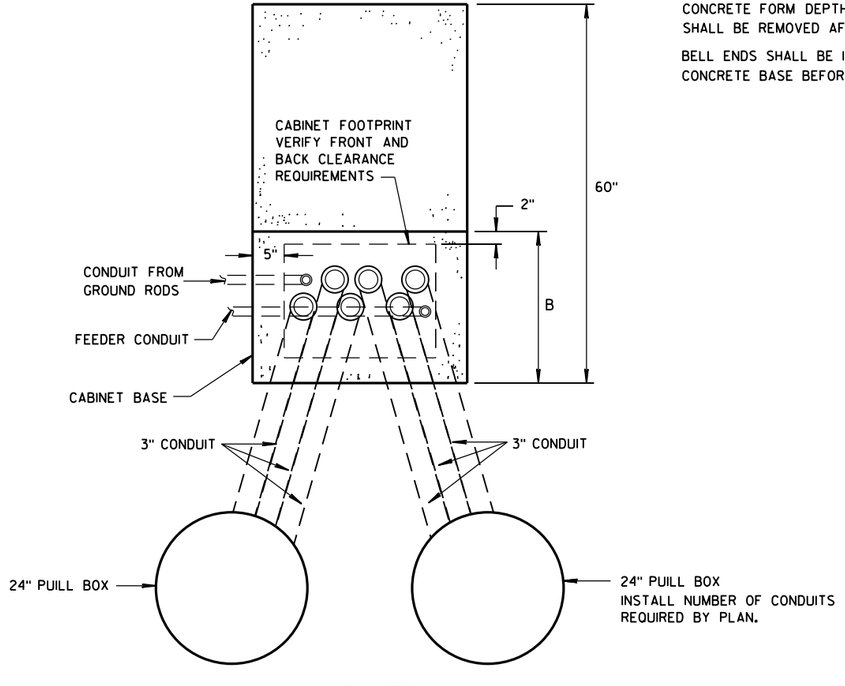
** 1¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

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

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Nov. 2014 — DATE
/S/ Thomas Gonring — STATE LIGHTING ENGINE — WYS
FHWA

6

S.D.D. 9 C 14-2

GENERAL NOTES

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

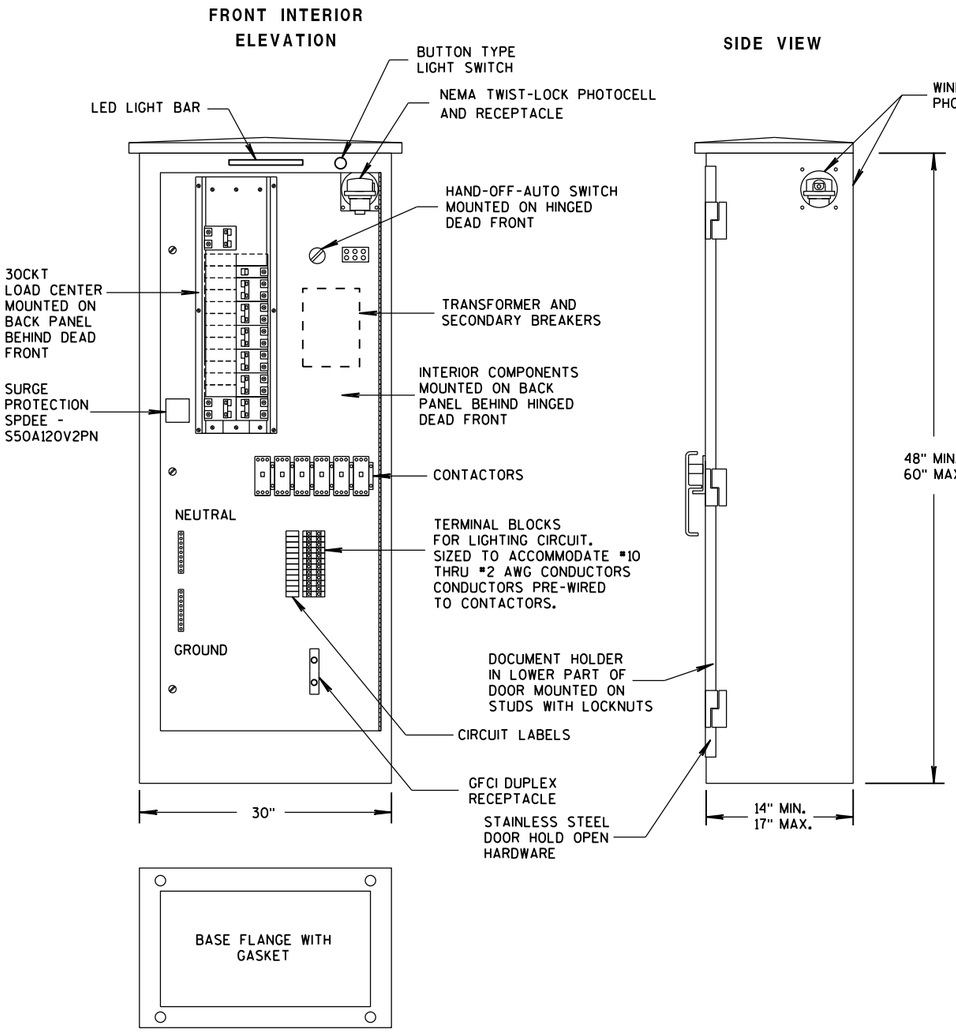
ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE-WIRED BY THE CABINET FABRICATOR.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

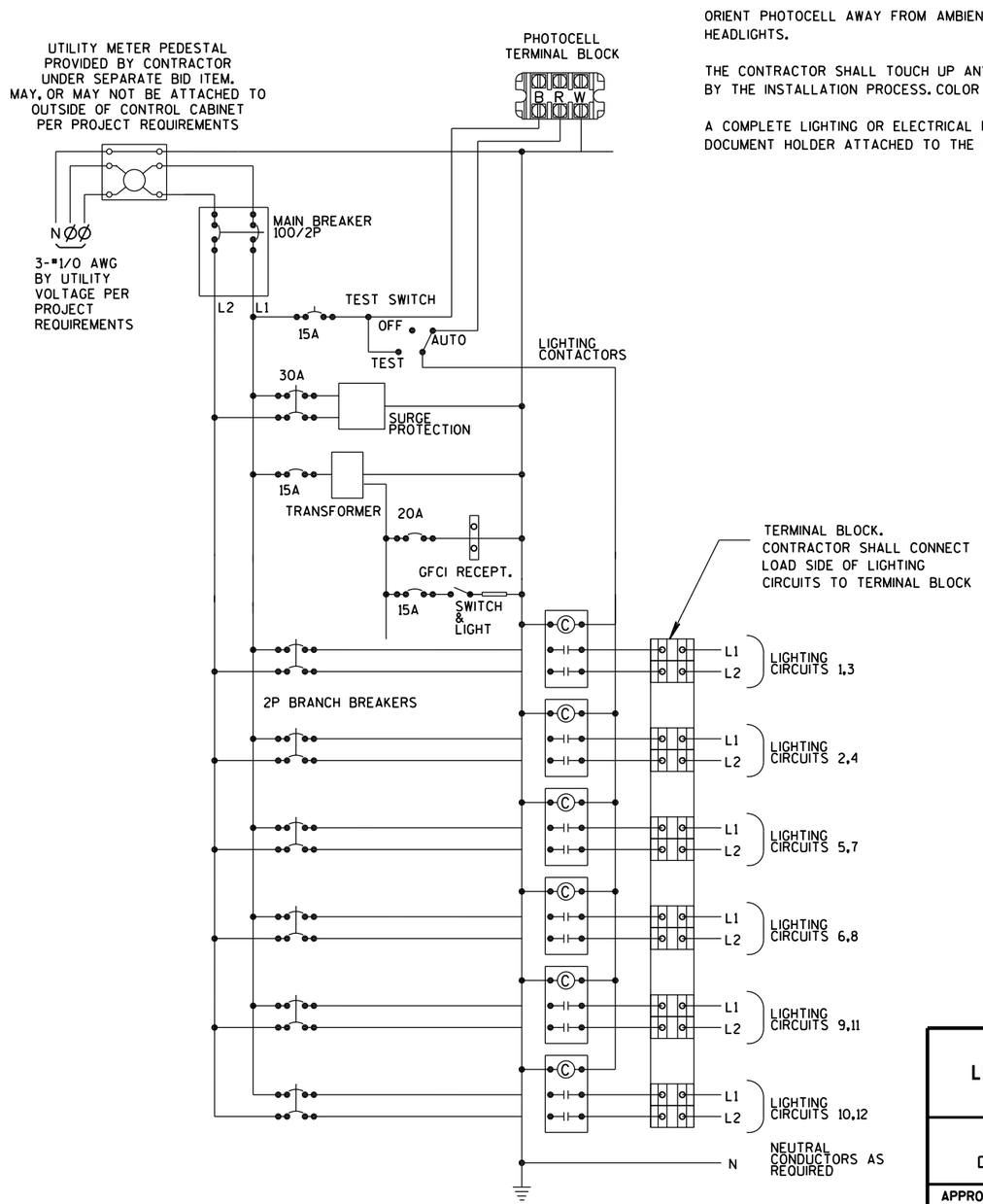
ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.



LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

L30
LIGHTING CONTROL CABINET
240/480 VOLT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

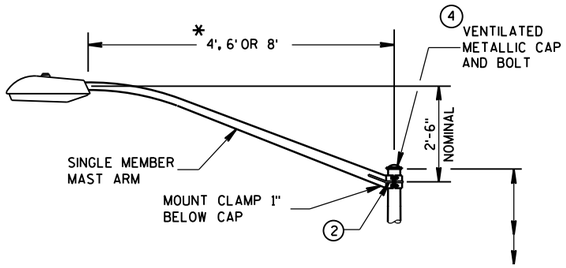
/S/ Thomas Gonring — STATE LIGHTING ENGINEER

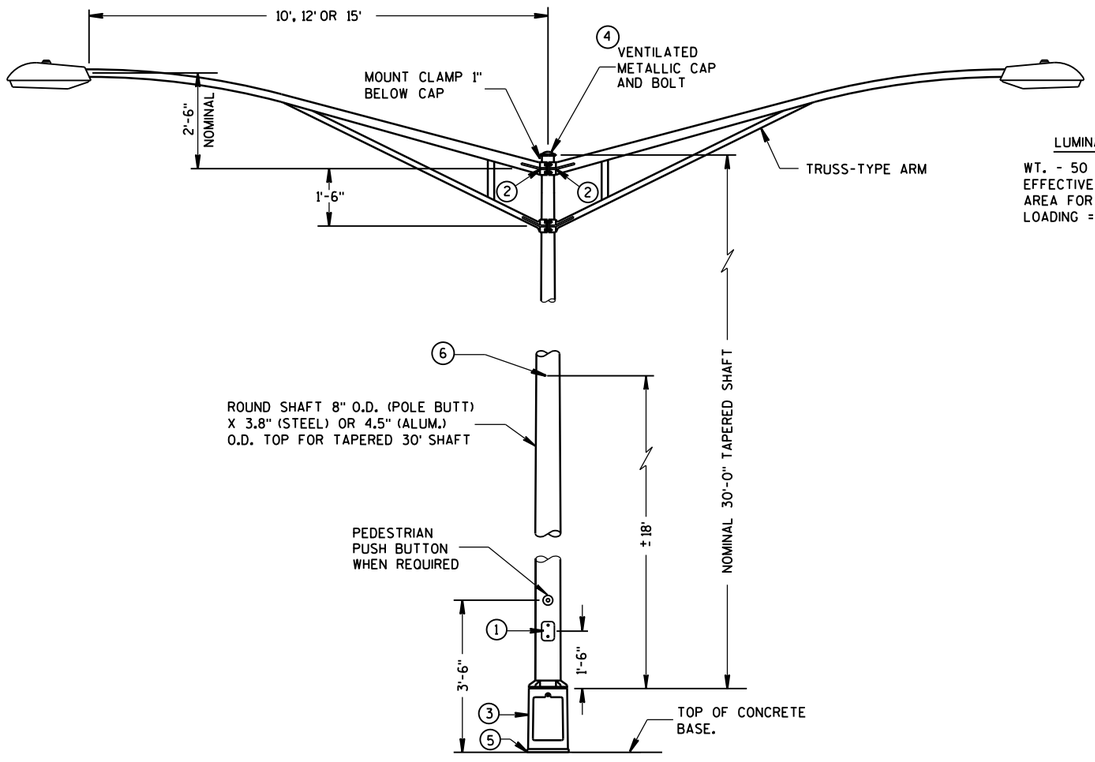
MYS.

FHWA

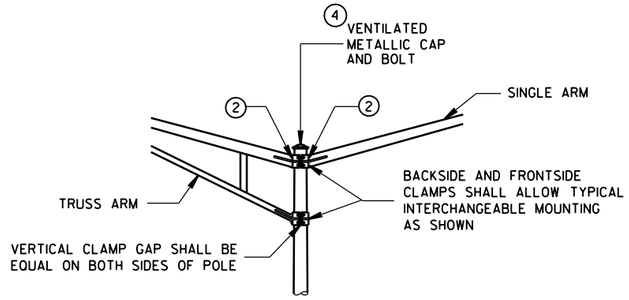
6
S.D.D. 9 D 5-1

*RISE FOR 4' ARM SHALL BE 2'-0".





TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED
AREA FOR WIND
LOADING = 1.5 SQ. FT.

GENERAL NOTES

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

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.188".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONEECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(6) INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

6

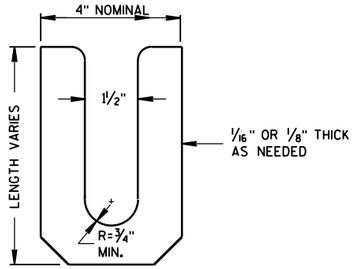
S.D.D. 9 E 1-14d

POLE MONTINGS FOR
LIGHTING UNITS, TYPE 5
(30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

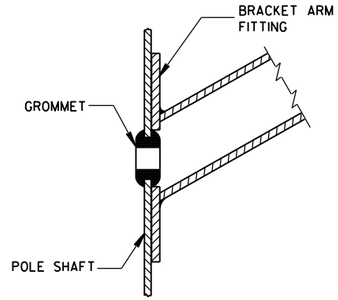
6

S.D.D. 9 E 1-14d

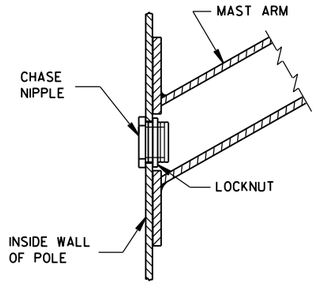


LEVELING SHIM (13)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

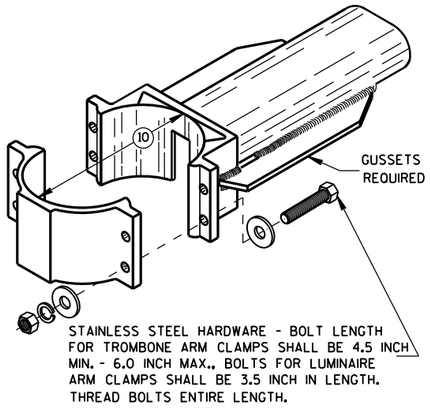
(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

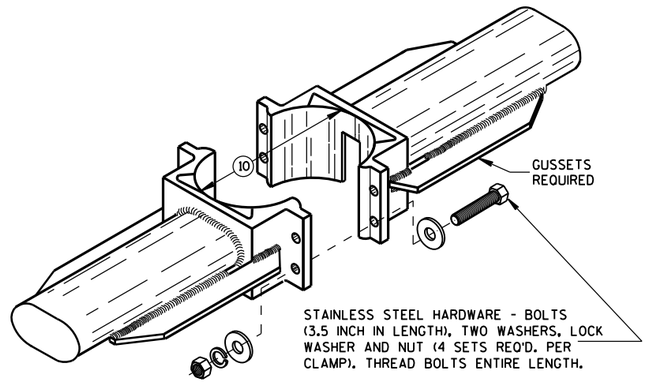
(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

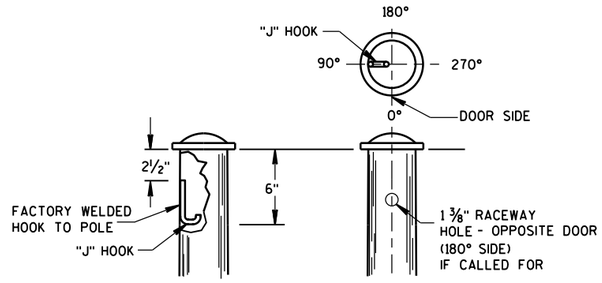
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



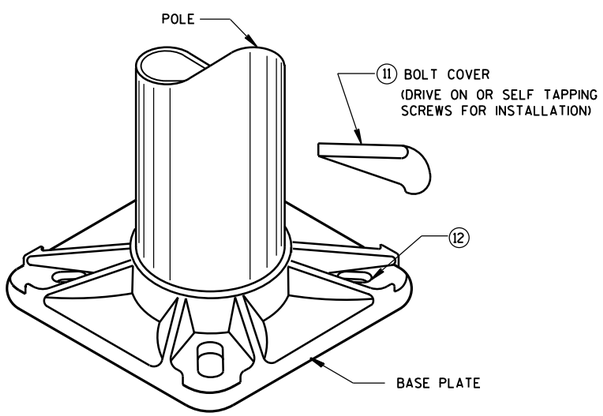
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



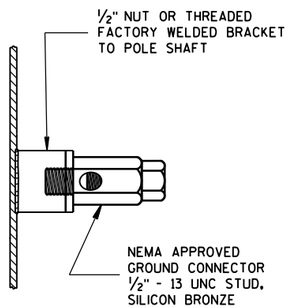
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

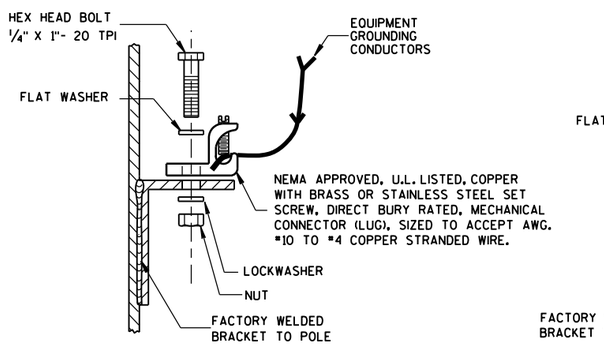


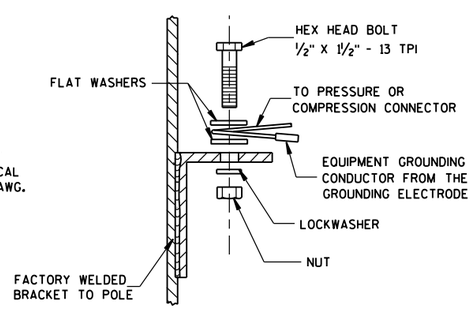
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

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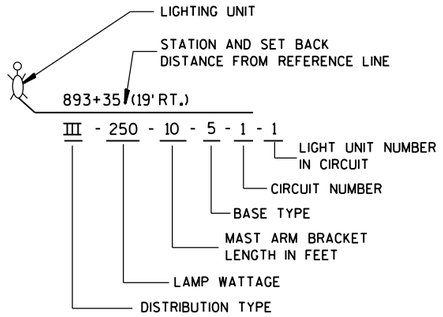
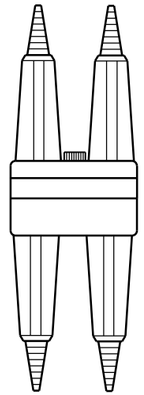
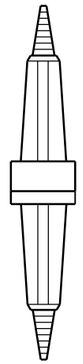
S.D.D. 9 E 1-14g



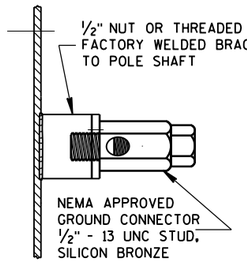
LIGHTING UNIT CODE
(TYPICAL)

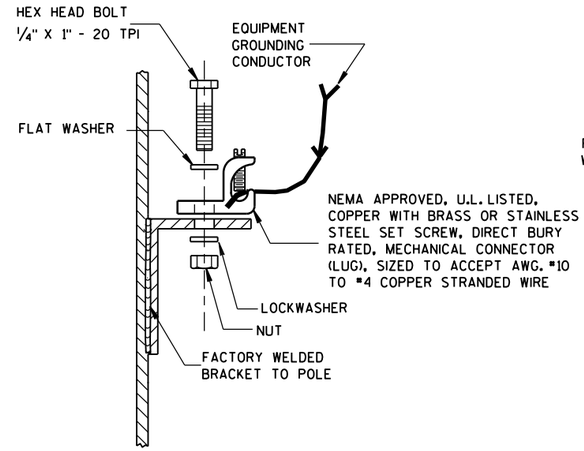


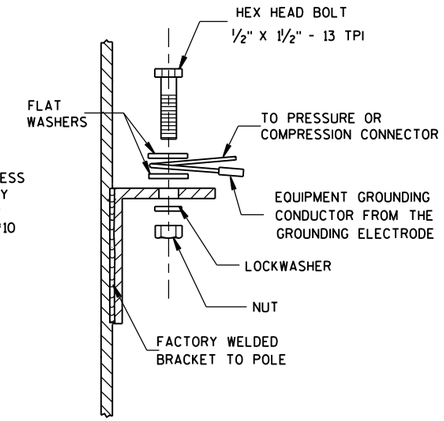
DETAIL "A"
BREAKAWY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



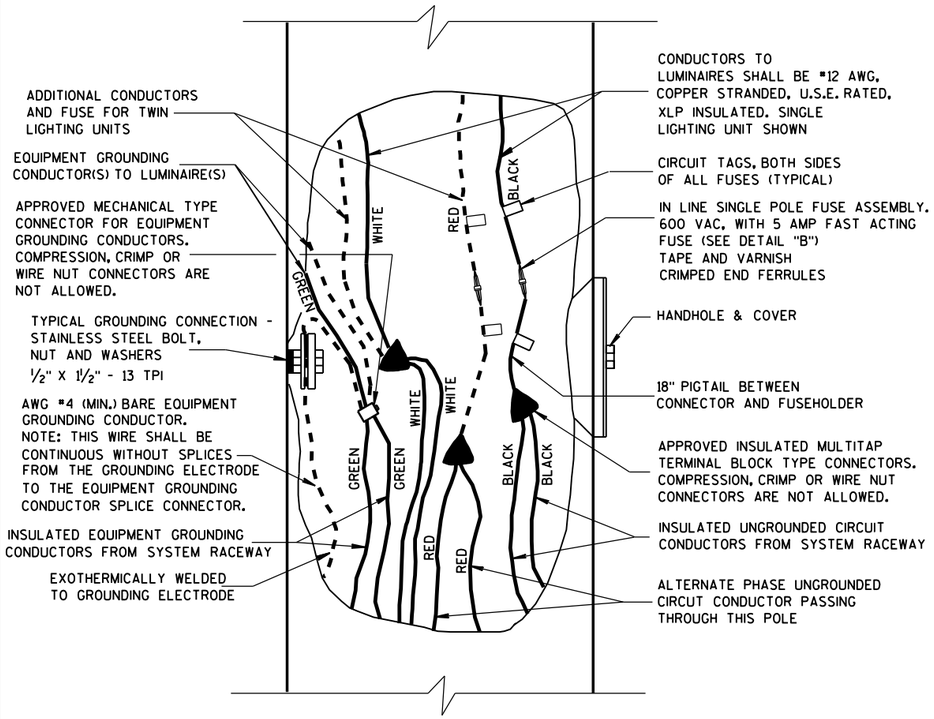
DETAIL "B"
BREAKAWY SINGLE POLE WITH WATERPROOF INSULATING BOOT



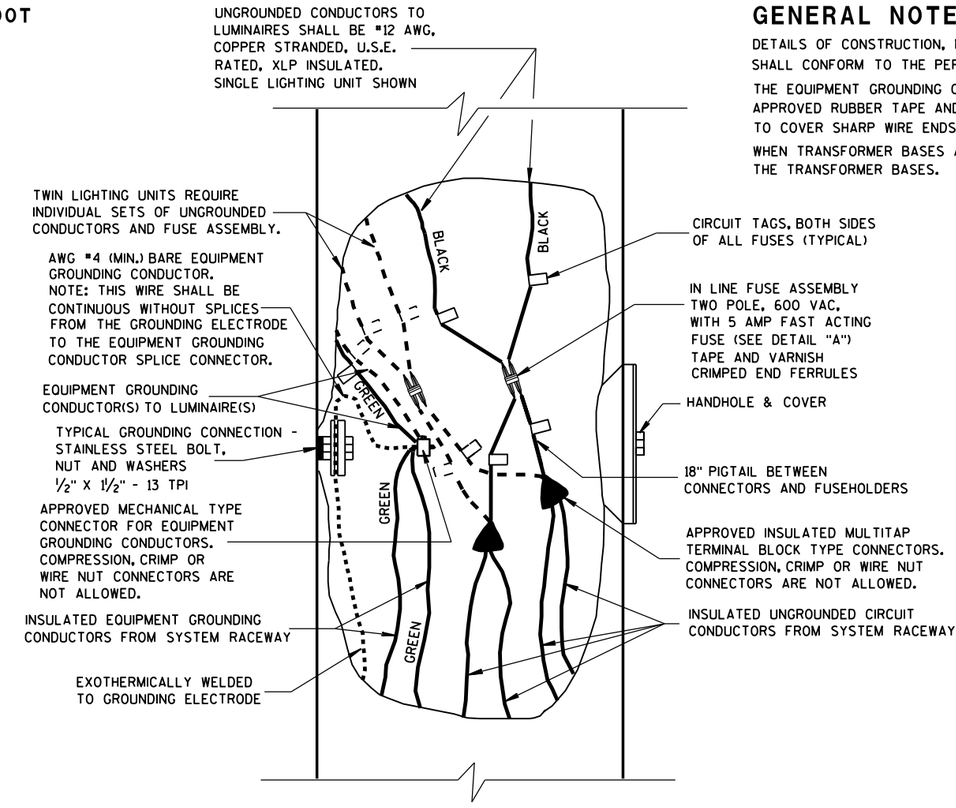




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTOR) WITH GROUNDED CONDUCTOR AND WITH EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

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

THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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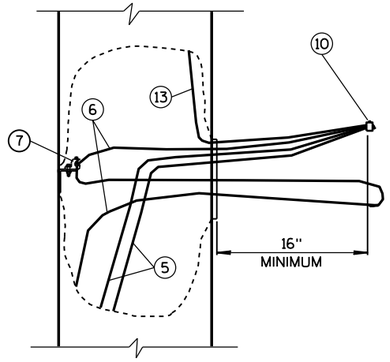
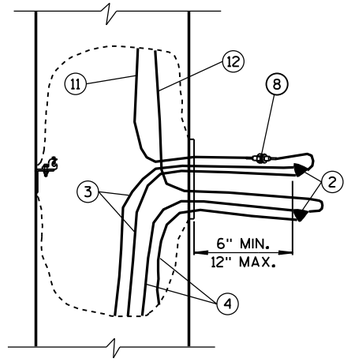
S.D.D. 9 E 3-5

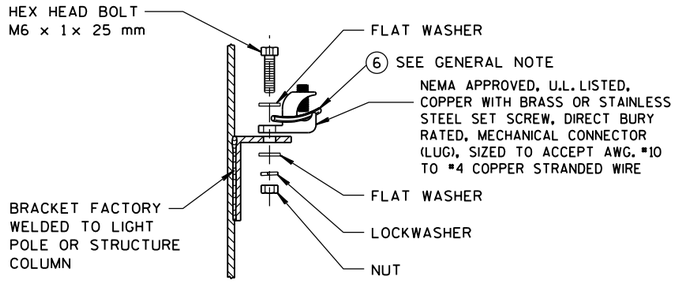


EQUIPMENT GROUNDING CONDUCTOR SLACK



UNGROUNDED CONDUCTOR SLACK (AND GROUNDED NEUTRAL SLACK IN GROUNDED NEUTRAL SYSTEM)

TYPICAL CONDUCTOR SLACK AT HANDHOLES



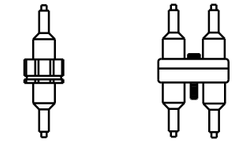
HANDHOLE GROUNDING LUG

(NUT, BOLT, WASHERS, AND LOCK WASHERS SHALL BE STAINLESS STEEL)

CONDUCTOR COLOR CODES

KEY	CONDUCTOR	COLOR
3	UNGROUNDED LINE WIRE	*
4	GROUNDED LINE WIRE	WHITE
5	SYSTEM GROUNDING LINE WIRE	GREEN
6	GROUNDING ELECTRODE CONDUCTOR	BARE
11	UNGROUNDED POLE WIRE	*
12	GROUNDED POLE WIRE	WHITE
13	EQUIPMENT GROUNDING POLE WIRE	GREEN

* FOLLOW COLOR CODING SHOWN IN THE PLANS. WHERE THE PLANS DO NOT SHOW COLOR CODING, USE BLACK FOR SINGLE LUMINAIRE POLES; BLACK AND RED FOR TWIN LUMINAIRE POLES.



FUSE ASSEMBLIES

GENERAL NOTES

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

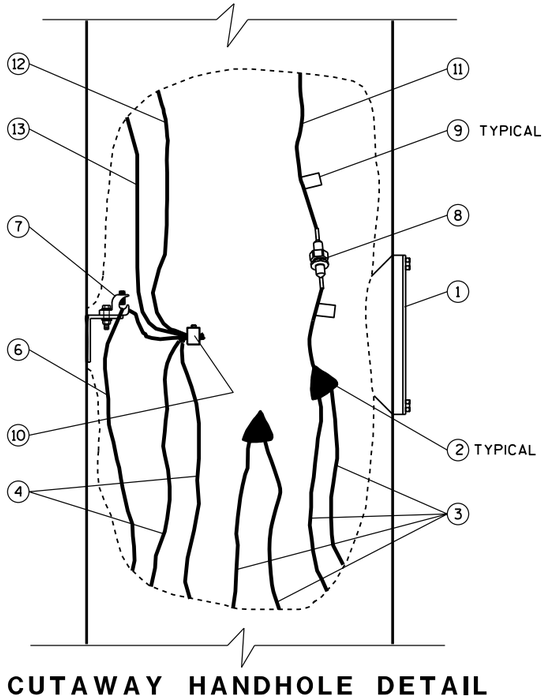
USE THIS DETAIL IN CONJUNCTION WITH THE ELECTRICAL DETAILS FOR THE APPLICATION, WHICH MAY BE A LIGHT POLE, SIGN BRIDGE, ETC.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING LUG TO THE CONNECTOR.

THREE POLE WIRES ARE SHOWN FOR A SINGLE LUMINAIRE LIGHT POLE. THREE ADDITIONAL POLE WIRES REQUIRED FOR TWIN LUMINAIRE LIGHT POLES ARE OMITTED FROM THE DRAWING FOR CLARITY. IN THE TWIN POLE CASE, BUNDLE EACH SET OF THREE WIRES WITH A NYLON CABLE TIE.

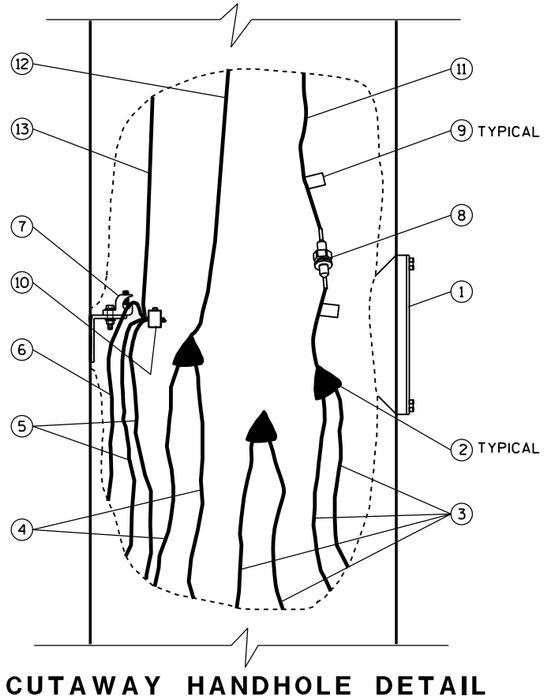
IN 3-PHASE SYSTEMS, THERE WILL BE ONE MORE UNGROUNDED LINE WIRE, WHICH IS OMITTED FROM THE DRAWING FOR CLARITY.

CIRCUIT TAGS SHALL BE INSTALLED ONLY WHERE REQUIRED IN THE SPECIAL PROVISIONS.



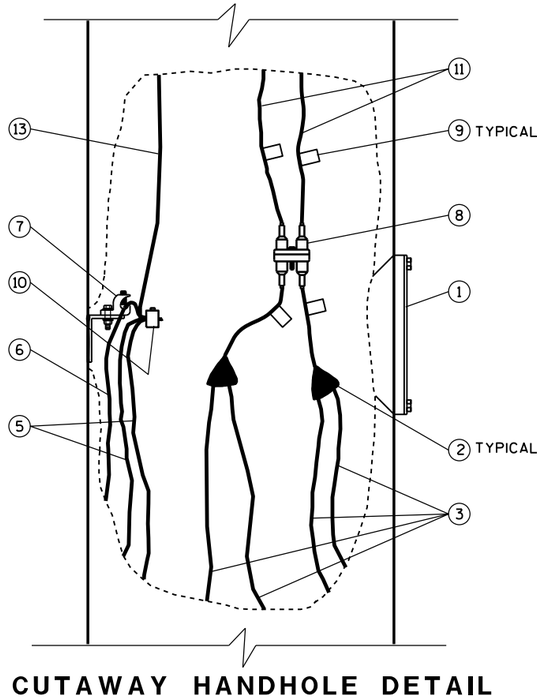
CUTAWAY HANDHOLE DETAIL

GROUNDED NEUTRAL SYSTEMS
1-Φ



CUTAWAY HANDHOLE DETAIL

ISOLATED NEUTRAL SYSTEMS
1-Φ SHOWN; 3-Φ WYE SIMILAR
(SEE GENERAL NOTE)



CUTAWAY HANDHOLE DETAIL

PHASE-TO-PHASE SYSTEMS
1-Φ SHOWN; 3-Φ DELTA SIMILAR
(SEE GENERAL NOTE)

NOTE: REQUIRED CONDUCTOR SLACK NOT SHOWN ON "CUTAWAY HAND HOLE" DETAILS FOR DRAWING CLARITY, SEE "TYPICAL CONDUCTOR SLACK AT HANDHOLES" ON THIS SHEET.

(1) HANDHOLE AND COVER
(2) INSULATED SPLICE
(3) UNGROUNDED LINE WIRE
(4) GROUNDED LINE WIRE
(5) SYSTEM GROUNDING LINE WIRE
(6) GROUNDING ELECTRODE CONDUCTOR
(7) HANDHOLE GROUNDING LUG
(8) FUSE ASSEMBLY, 1P OR 2P AS REQUIRED
(9) CIRCUIT TAG (SEE GENERAL NOTE)
(10) REVERSIBLE PRESSURE OR COMPRESSION GROUNDING CONNECTOR (NOT INSULATED)
(11) UNGROUNDED POLE WIRE
(12) GROUNDED POLE WIRE
(13) EQUIPMENT GROUNDING POLE WIRE

ELECTRICAL HANDHOLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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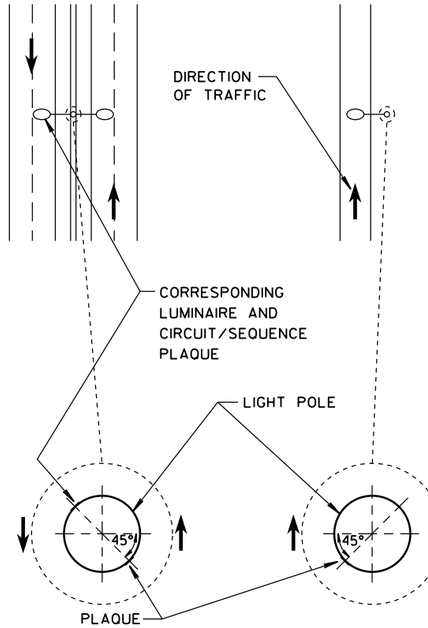


MEDIAN POLE SINGLE ARM POLE

LOCATION OF LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

WHERE SHOWN IN THE PLANS, REPLACEMENT PLAQUES WILL BE MEASURED AND PAID SEPARATELY.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETRORFLECTIVE

LINES - BLACK, 1/2" WIDE, SELF-ADHESIVE

CHARACTERS - BLACK, SELF-ADHESIVE, SERIES "D", SIZE AS SHOWN

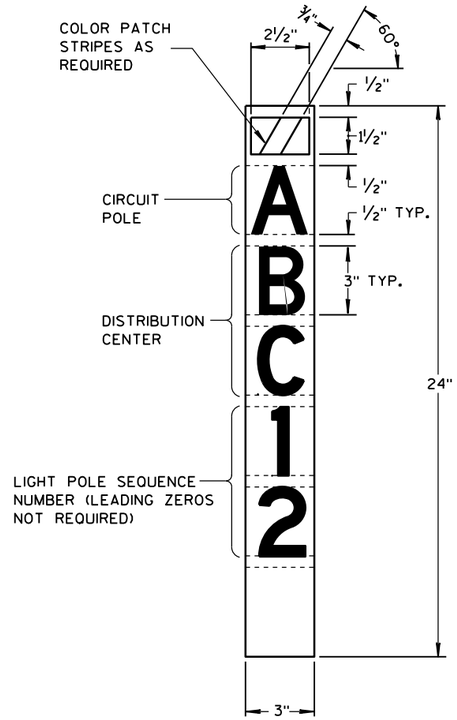
COLOR PATCHES - VARIOUS COLORS, SELF-ADHESIVE VINYL SHEETING

WITH THE APPROVAL OF THE ENGINEER, THE BASE MATERIAL MAY BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE SURFACE, IN CASES SUCH AS SMOOTH, CLEAN ALUMINUM POLES.

ALTERNATIVE COMPUTER-GENERATED SIGN LETTERING MAY BE ACCEPTED IF THE ENGINEER FINDS IT TO BE EQUIVALENT.

COLOR PATCH CODE FOR HPS AND LED LUMINAIRES

HPS	LED	COLOR PATCH CODE
1000 WATT		NO PATCH
400 WATT	CATEGORY D	ORANGE
310 WATT		BLUE
250 WATT	CATEGORY C	ORANGE WITH WHITE STRIPE
200 WATT		RED
150 WATT	CATEGORY B	GREEN
100 WATT	CATEGORY A	BROWN
70 WATT	CATEGORY UDL	BROWN WITH WHITE STRIPE



LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

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S.D.D. 10 A 2-3

IDENTIFICATION PLAQUES LIGHT POLES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Feb. 2015 — DATE

/S/ Ahmet Demirbilek — STATE ELECTRICAL

FHWA

GENERAL NOTES

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

USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING LUG TO THE CONNECTOR.

WIRING FOR SINGLE LUMINAIRE POLES IS SHOWN WITH SOLID LINES. WIRING FOR THE SECOND LUMINAIRE OF TWIN LUMINAIRE POLES IS SHOWN WITH DOTTED LINES.

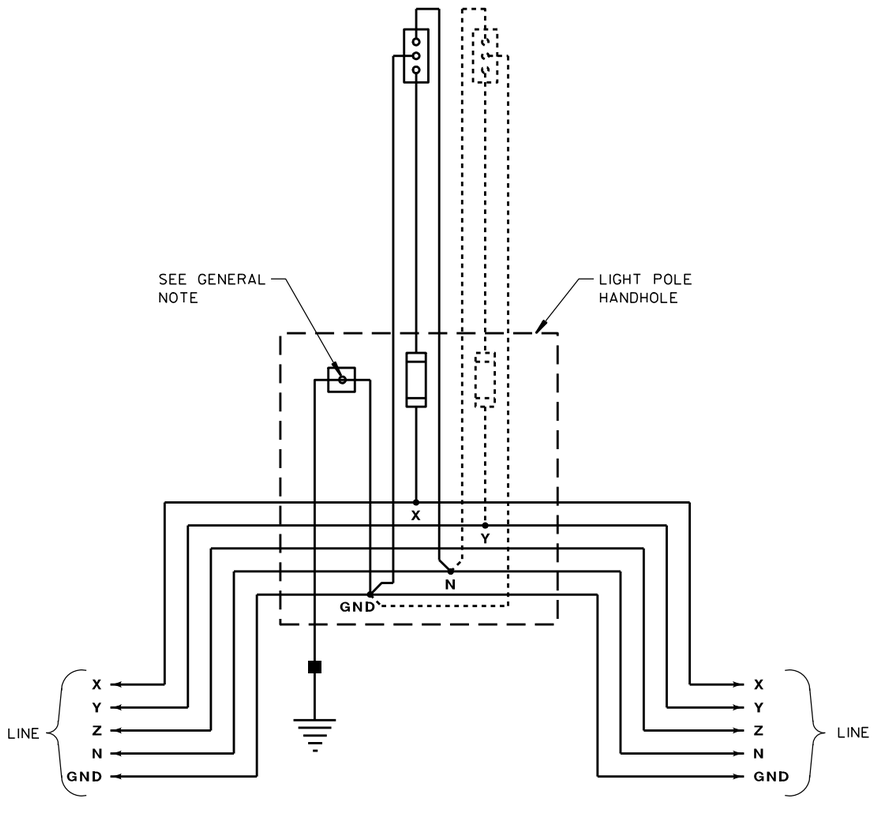
THE PLANS WILL SHOW WHICH CIRCUIT LEG(S) ARE CONNECTED TO EACH INSTALLATION.

HANDHOLE FUSE SCHEDULES

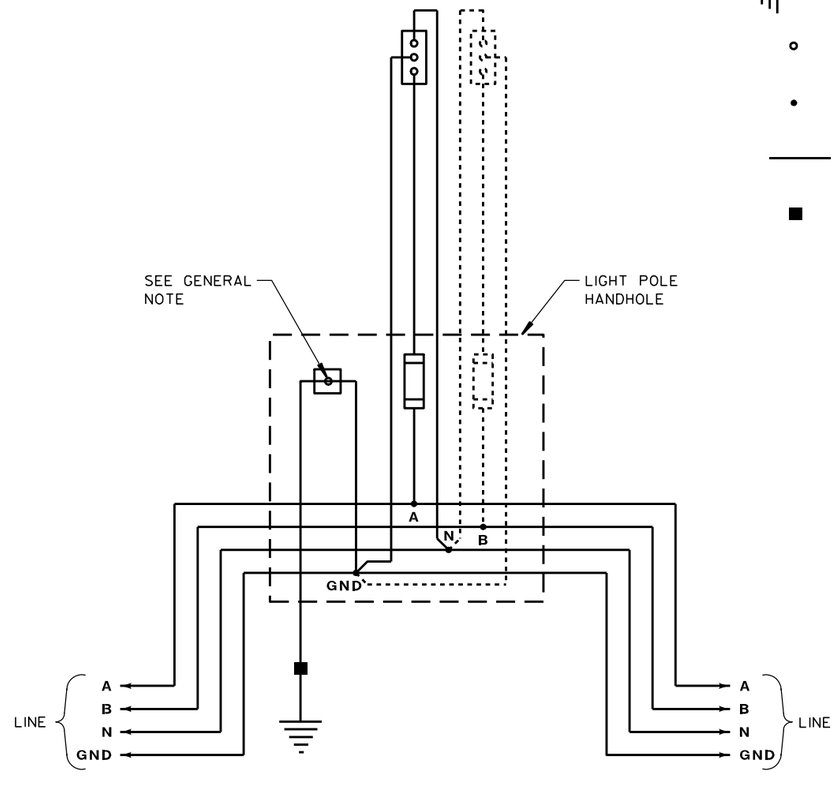
LINE VOLTAGE	BALLAST WATTAGE	
φ-GROUND	70-200 W	250-400 W
120 VAC	5 A	10 A
240 VAC	5 A	5 A
277 VAC	5 A	5 A
480 VAC	3 A	5 A

LEGEND

A,B,X,Y,Z	UNGROUNDED CIRCUIT CONDUCTORS
N	GROUNDED CIRCUIT CONDUCTORS
GND	EQUIPMENT GROUNDING CONDUCTOR
P	POLE (ELECTRICAL CIRCUIT)
φ	PHASE (ELECTRICAL CURRENT)
	HANDHOLE GROUND LUG
	SINGLE-POLE (1P) FUSE ASSEMBLY
	TWO-POLE (2P) FUSE ASSEMBLY
	UNFUSED LUMINAIRE
	EQUIPMENT GROUNDING ELECTRODE
	TERMINAL
	SPLICE
	CONDUCTOR
	EXOTHERMIC WELD



TYPICAL WIRING DIAGRAM
ISOLATED NEUTRAL SYSTEM
3-φ 208Y/120VAC OR 480Y/277VAC 4 WIRE



TYPICAL WIRING DIAGRAM
ISOLATED NEUTRAL SYSTEM
1-φ 120/240VAC OR 240/480VAC 3 WIRE

ELECTRICAL DETAILS
GROUND MOUNT LIGHT POLES
ISOLATED NEUTRAL SYSTEM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/25/2010 — DATE
/S/ John Corbin — STATE ELECTRICAL ENGI
FHWA — HWYS

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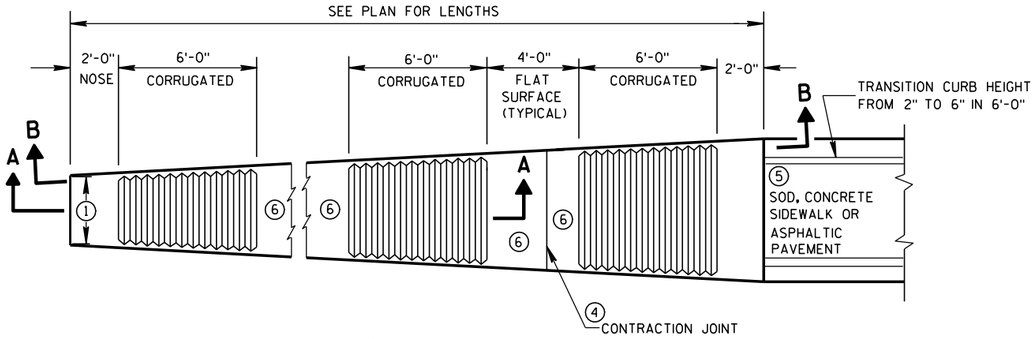
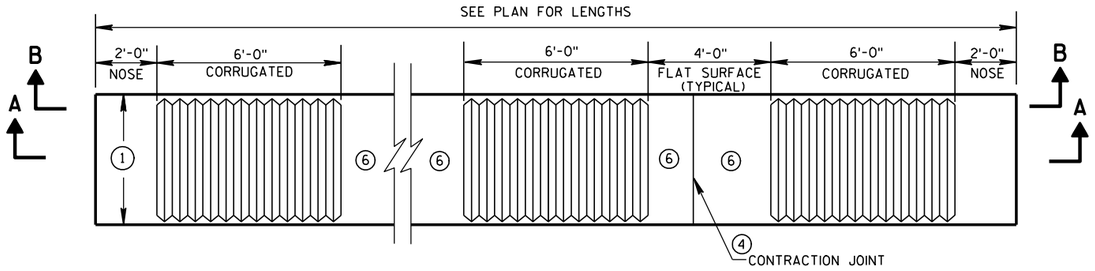
S.D.D. 10 A 5-2



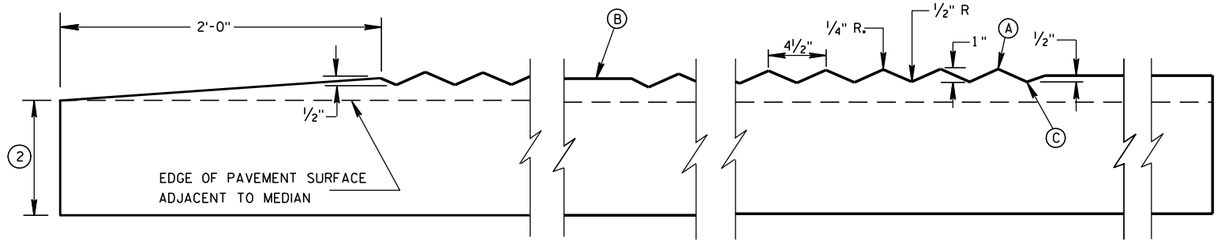
PLAN VIEW

VARIABLE WIDTH CONCRETE CORRUGATED MEDIAN



PLAN VIEW

UNIFORM WIDTH CONCRETE CORRUGATED MEDIAN



SECTION A-A

LONGITUDINAL SECTION

GENERAL NOTES

(1) SEE PLANS FOR CONSTANT OR VARIABLE WIDTH.

(2) THE DEPTH OF THE CONCRETE CORRUGATED MEDIAN SHALL BE 9-INCHES UNLESS SHOWN OTHERWISE IN THE PLAN.

ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN IN THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

(2) ASPHALTIC CONCRETE OVER NEW OR EXISTING CONCRETE BASE COURSE, OR PAVEMENT.

(3) ASPHALTIC PAVEMENT OVER BASE AGGREGATE DENSE.

(3) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

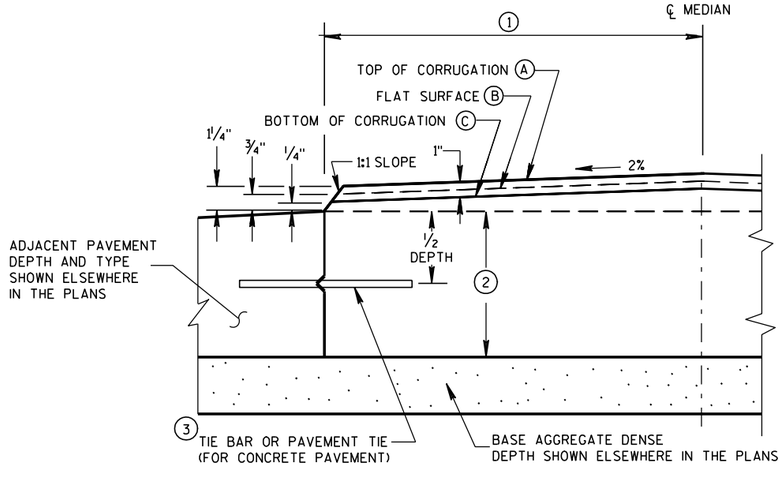
INSTALL TIE BARS TO MAINTAIN A MINIMUM OF 3-INCHES OF COVER BETWEEN THE TIE BAR AND THE CONCRETE SURFACE (BOTTOM AND TOP).

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE PAVEMENT OR CONCRETE BASE COURSE, PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(4) CONCRETE CORRUGATED MEDIAN CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH THE JOINTS IN ADJACENT CONCRETE PAVEMENT. WHERE ADJACENT PAVEMENT IS ASPHALT WITH BASE AGGREGATE DENSE. TRANSVERSE CONTRACTION JOINTS SHALL BE PROVIDED AT 20 FOOT INTERVALS.

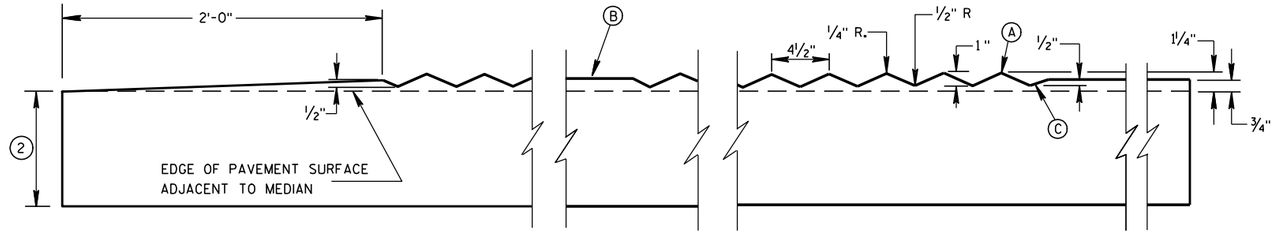
(5) SURFACE TYPE AND DETAILS ARE DEFINED ELSEWHERE IN THE PLAN.

(6) YELLOW MARKING ON FLAT SURFACE WHEN MEDIAN SEPARATES OPPOSING TRAFFIC.



HALF CROSS SECTION

(2) CONCRETE CORRUGATED MEDIAN AND ADJACENT PAVEMENT



SECTION B-B

LONGITUDINAL SECTION

CONCRETE CORRUGATED MEDIAN	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
12/17/07 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS ENGINEER
FHWA	

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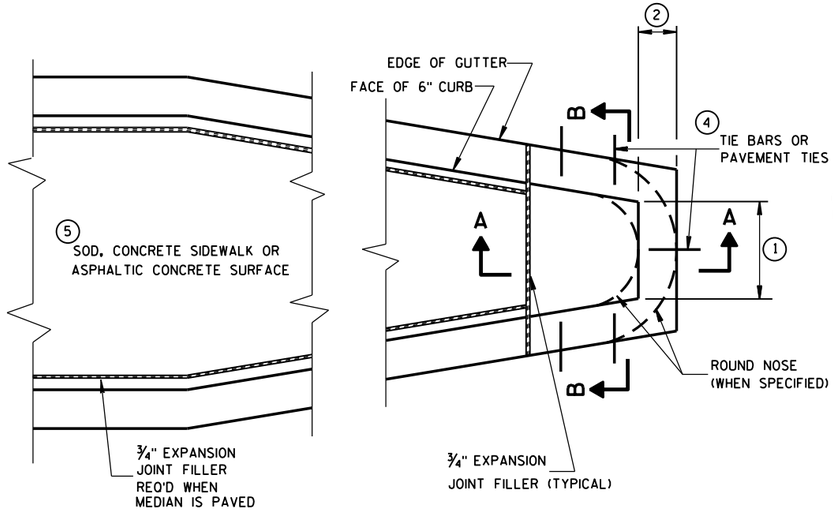
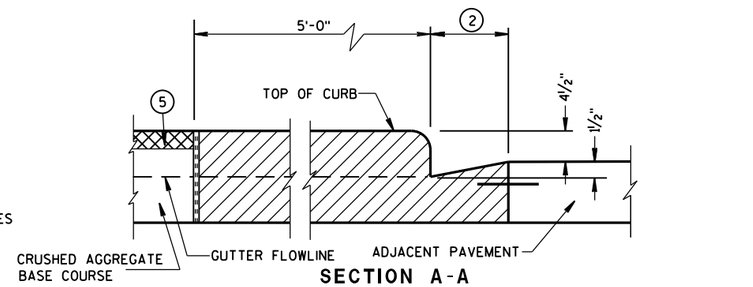
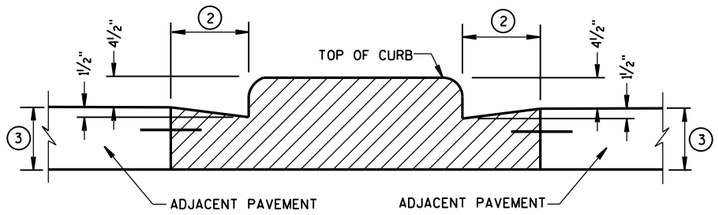






CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

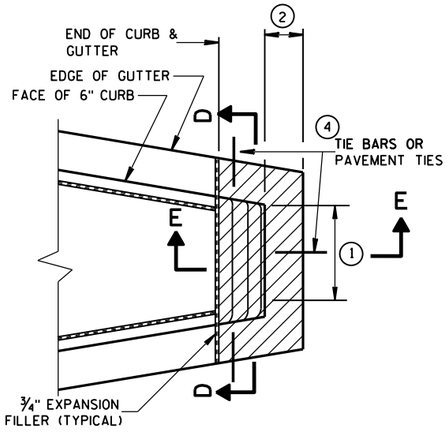
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

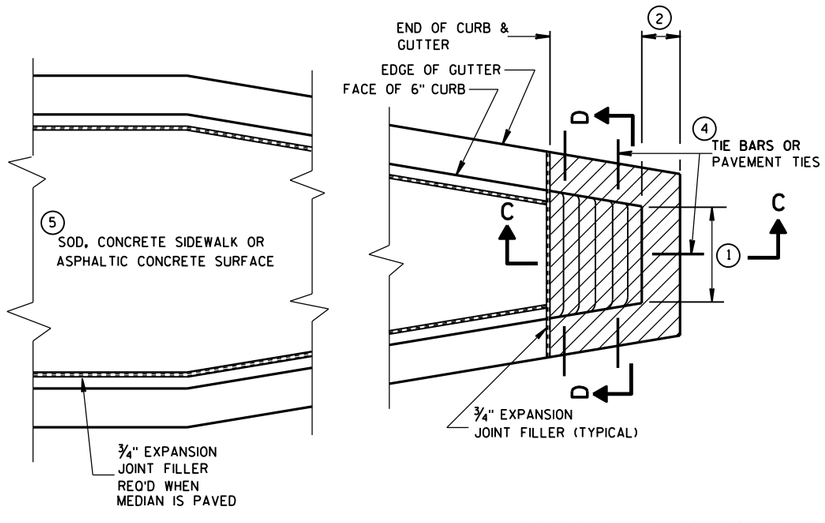
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

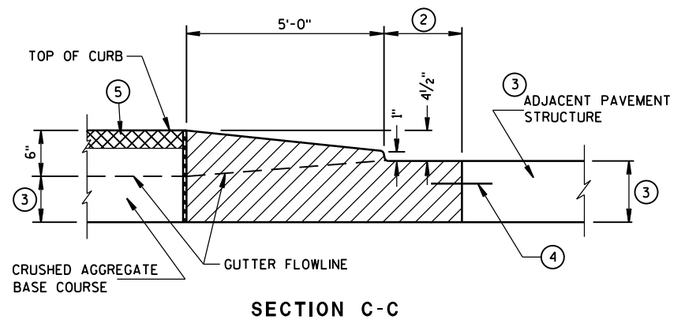
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

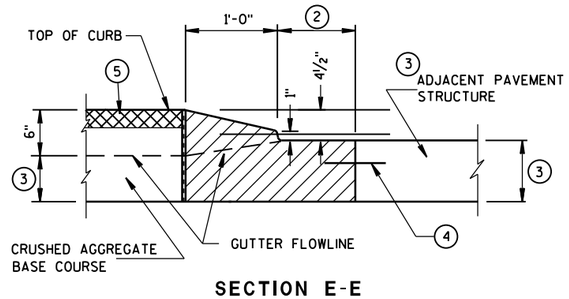
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



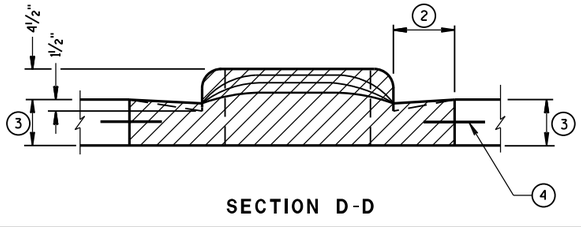






CONCRETE MEDIAN SLOPED NOSE TYPE 1

CONCRETE MEDIAN SLOPED NOSE TYPE 2

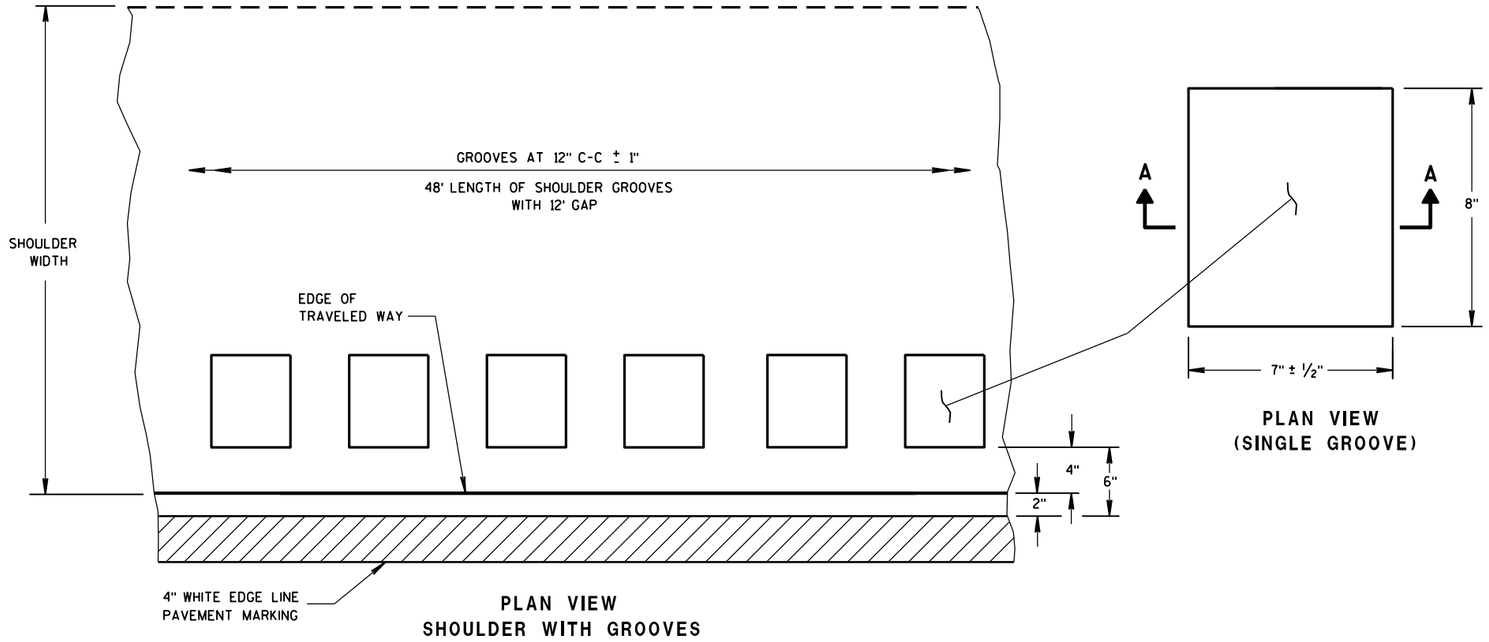


CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 11 B 2-2



PLAN VIEW
SHOULDER WITH GROOVES

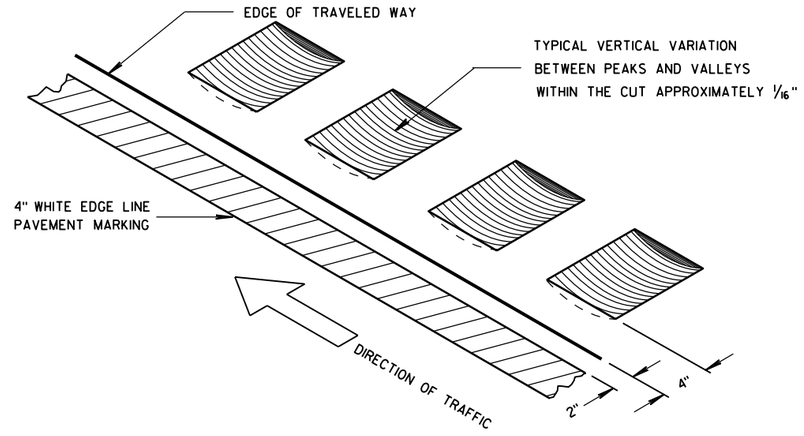
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

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

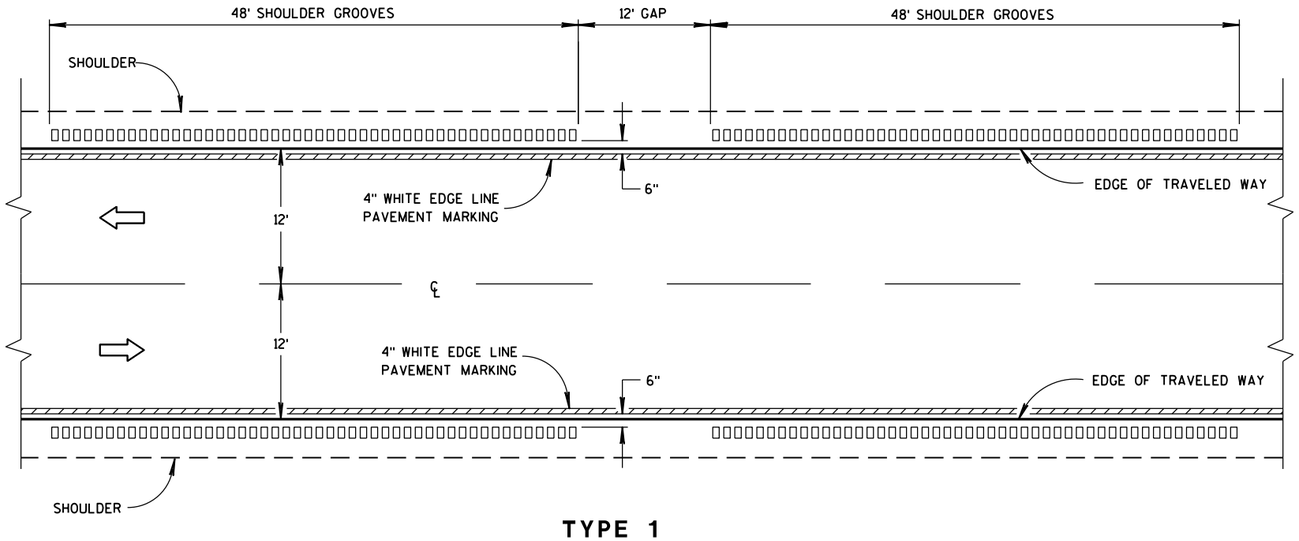
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

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

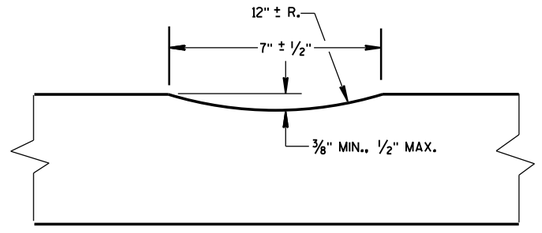


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP



TYPE 1
2-LANE SHOULDER RUMBLE STRIP



SECTION A-A

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

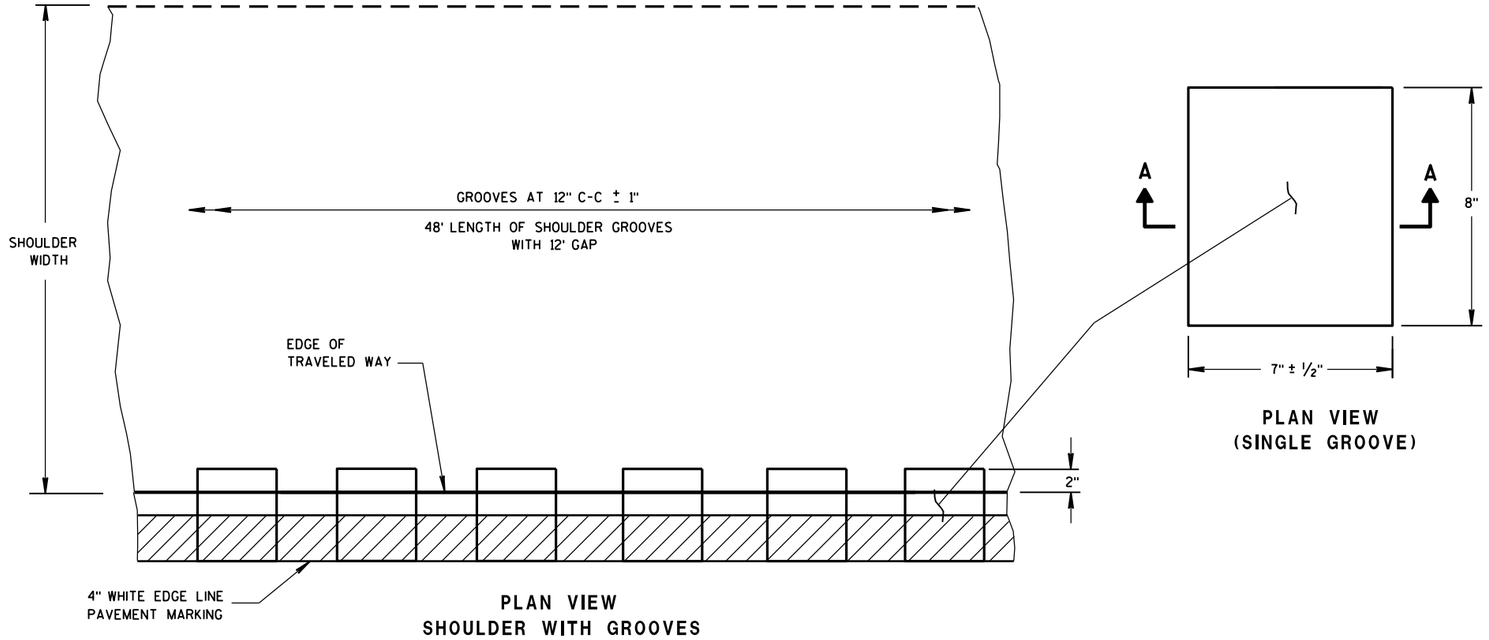
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

S.D.D. 13 A 10-1a

6

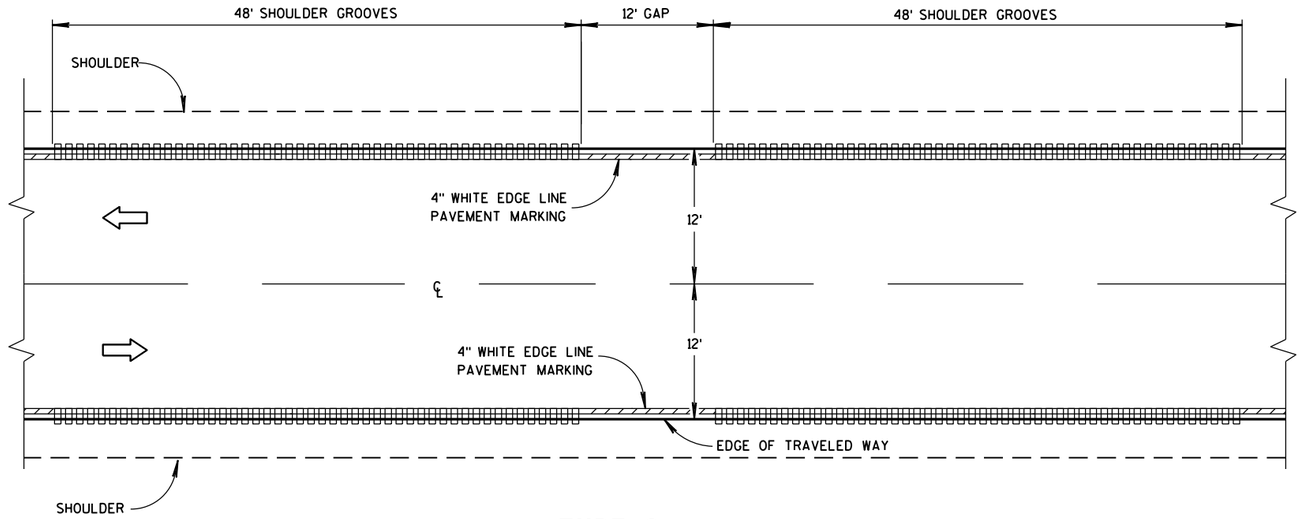
S.D.D. 13 A 10-1a



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP



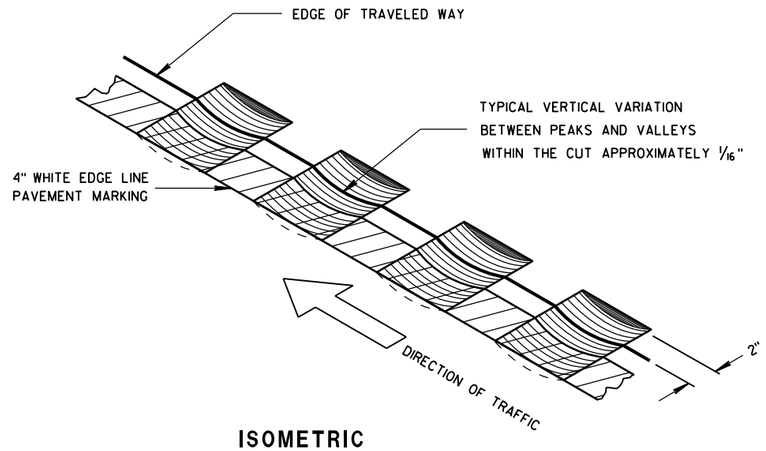
TYPE 2
2-LANE SHOULDER RUMBLE STRIP

GENERAL NOTES

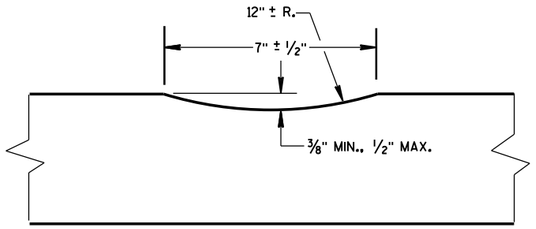
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

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



ISOMETRIC



SECTION A-A

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

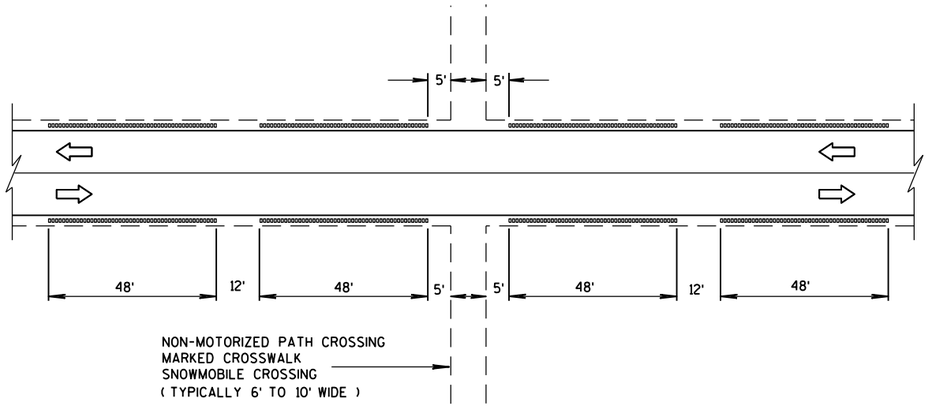
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

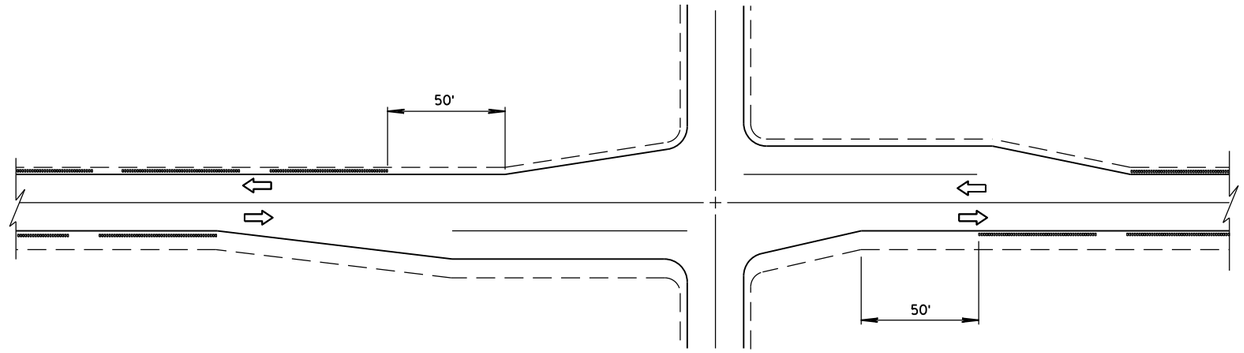
S.D.D. 13 A 10-1b

6

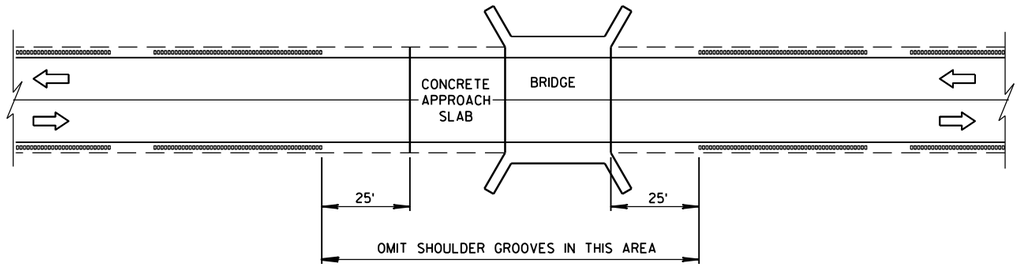
S.D.D. 13 A 10-1b



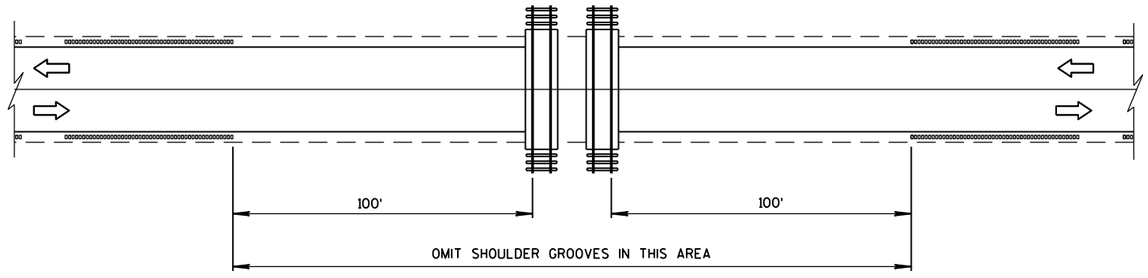
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



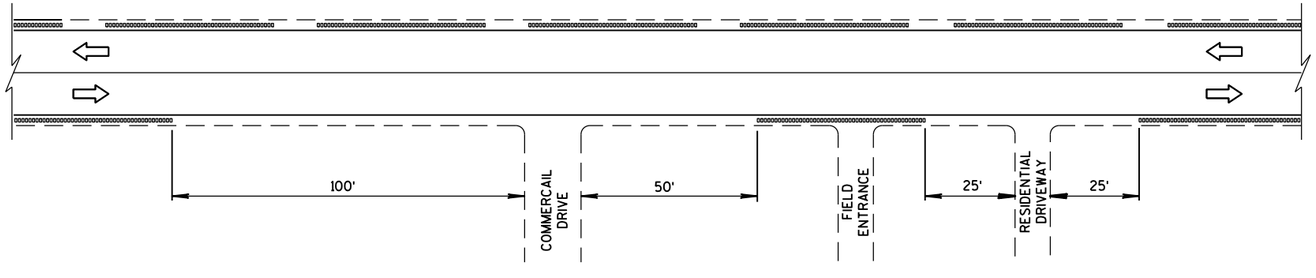
SHOULDER GROOVES AT INTERSECTIONS



SHOULDER GROOVES AT BRIDGES



SHOULDER GROOVES AT RAILROADS

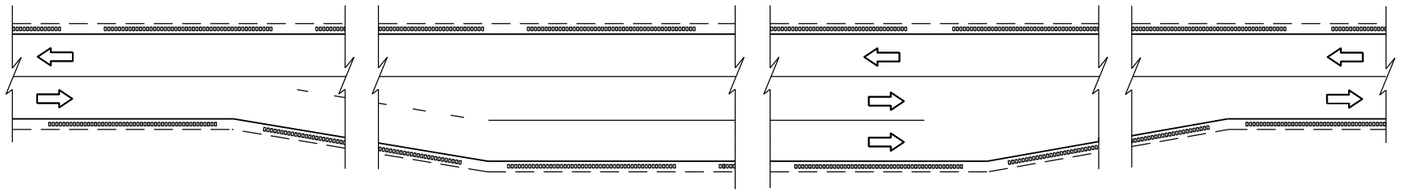


SHOULDER GROOVES AT DRIVEWAYS (1)

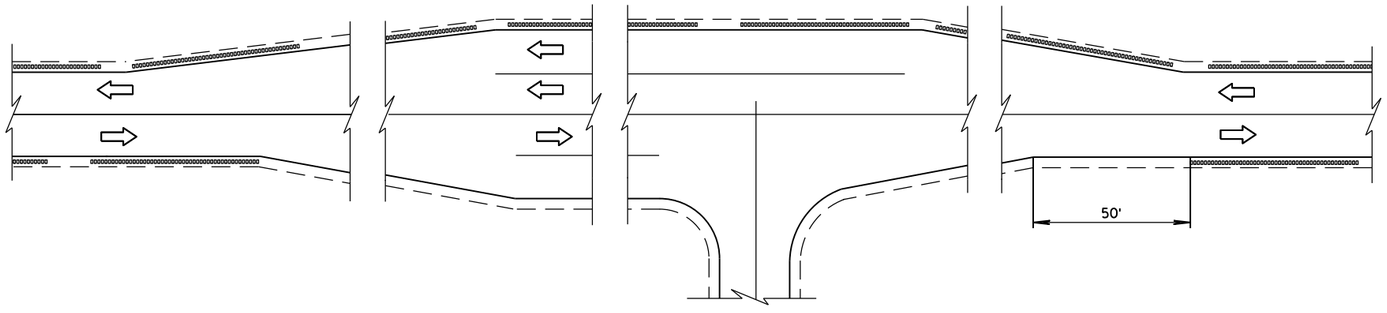
2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 13 A 10-1c



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

6

6

S.D.D. 13 A 10-1d

S.D.D. 13 A 10-1d

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

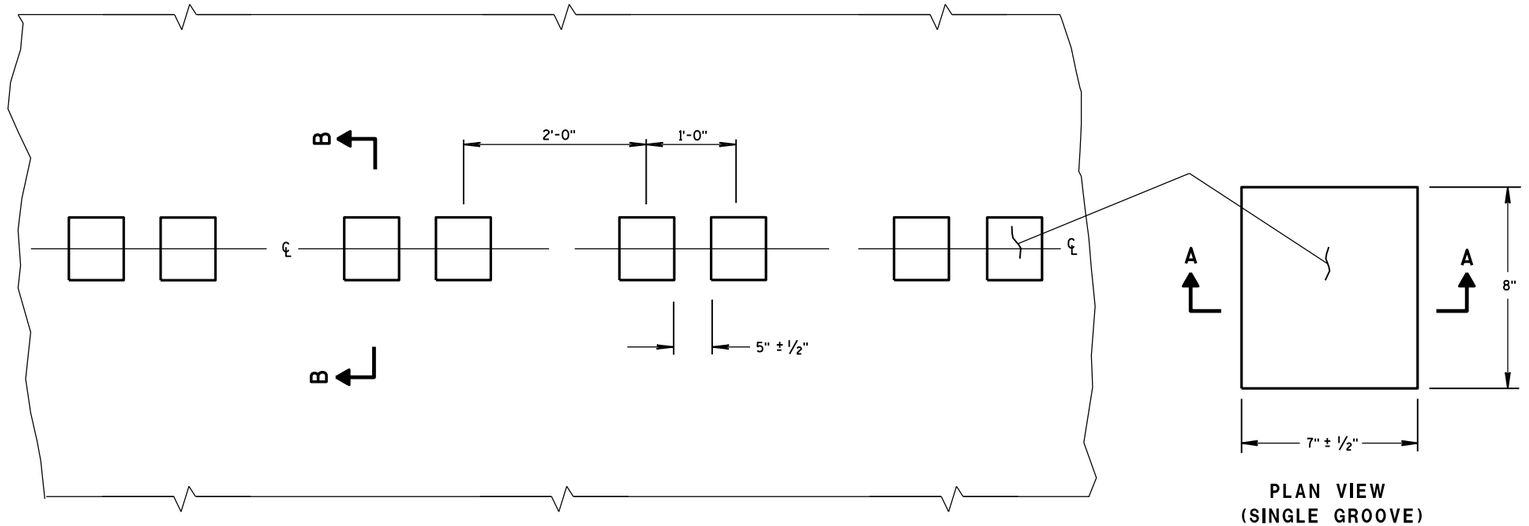
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/2012
DATE

/S/ Jerry H. Zoga
ROADWAY STANDARDS ENGINEER

FHWA



PLAN VIEW
CENTER LINE WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

GENERAL NOTES

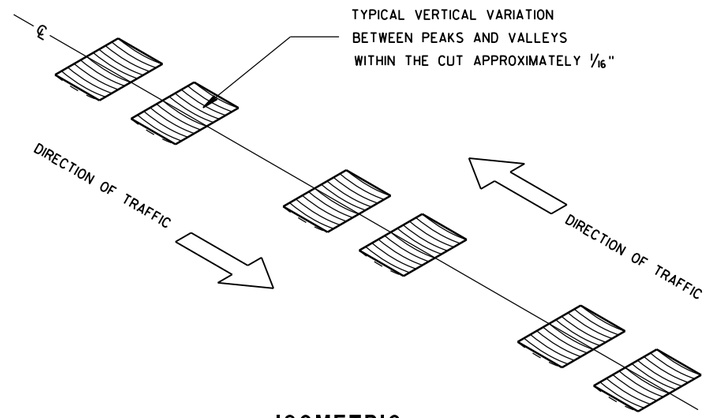
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

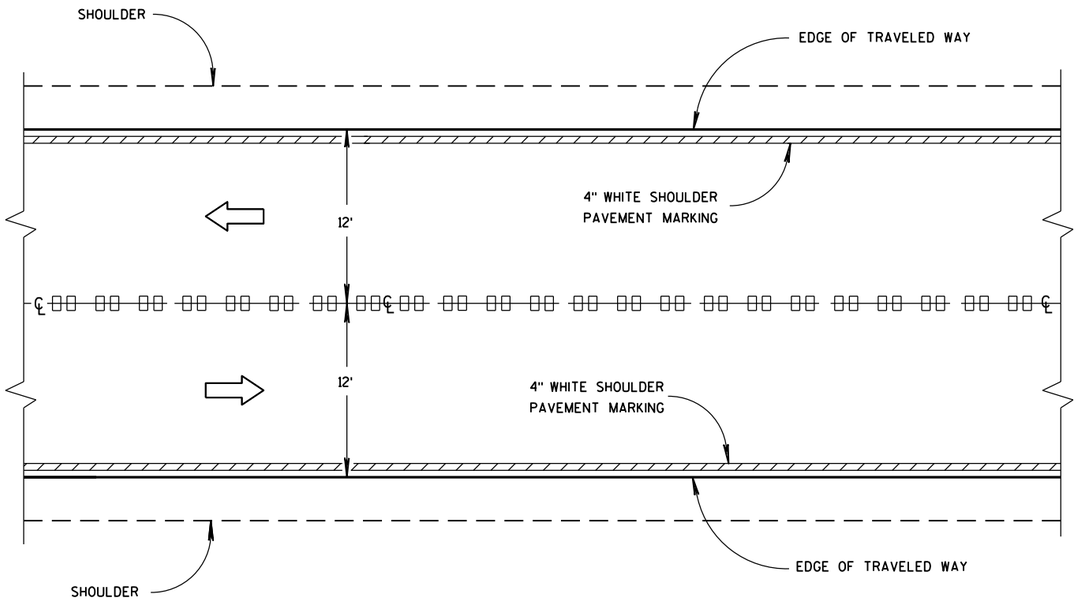
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

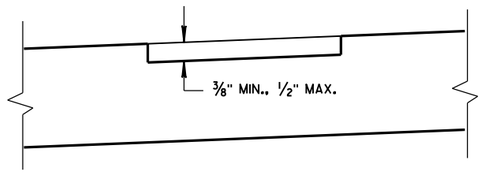
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



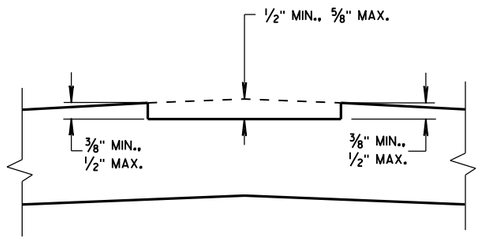
ISOMETRIC



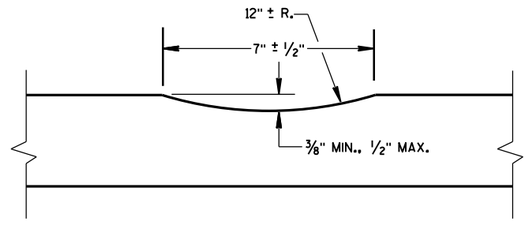
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

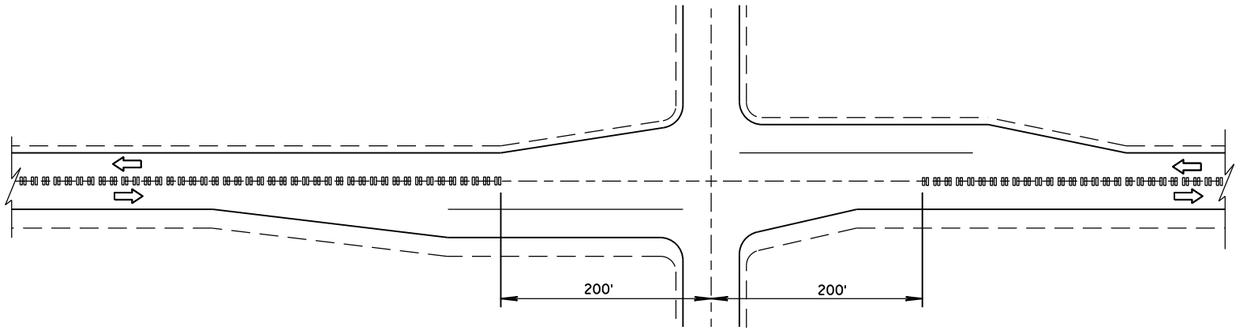
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

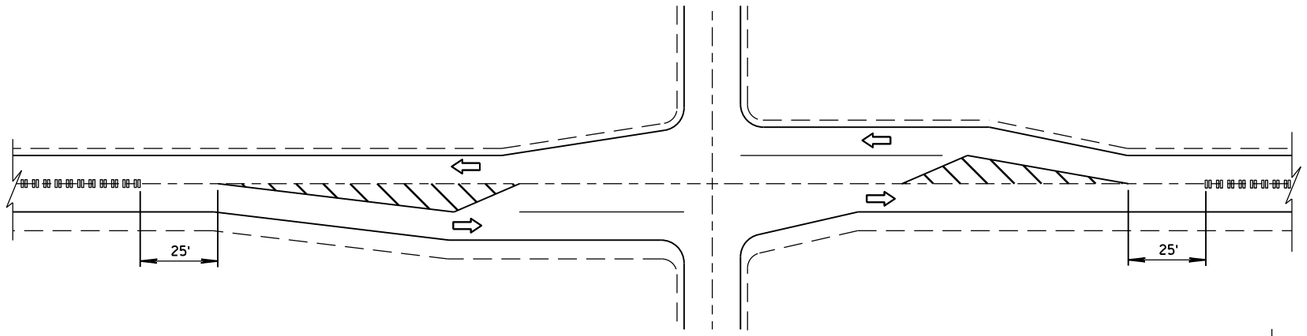
S.D.D. 13 A 11-2a

6

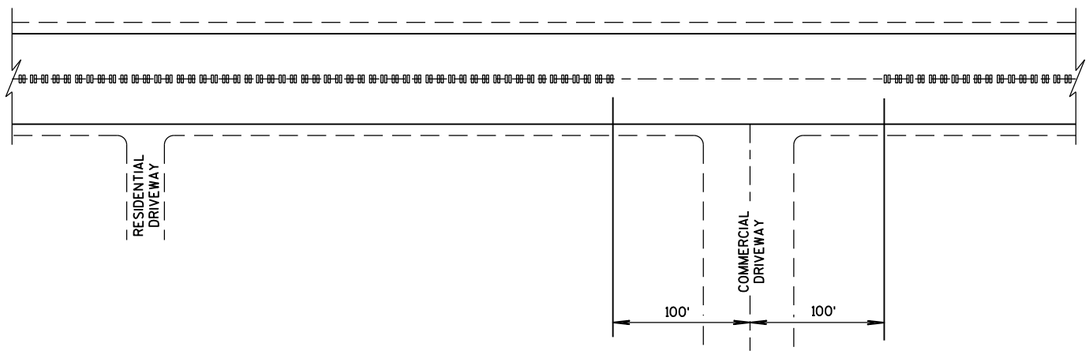
S.D.D. 13 A 11-2a



CENTER LINE GROOVES AT INTERSECTIONS

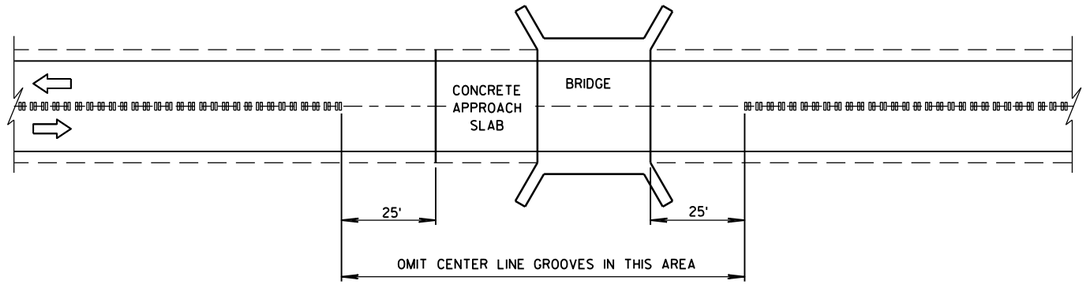


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

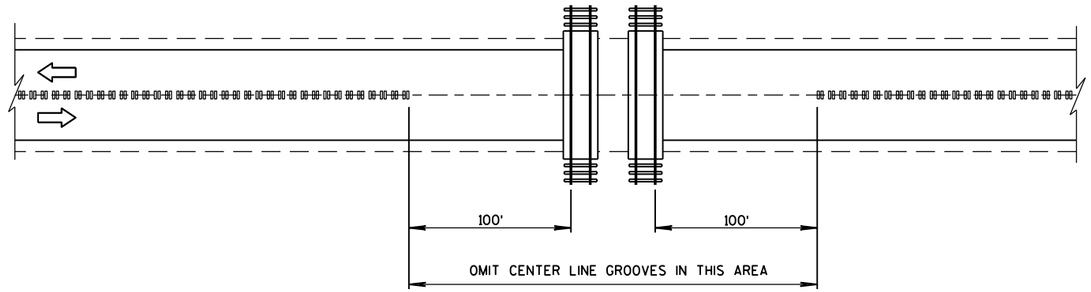


CENTER LINE GROOVES AT DRIVEWAYS (1)

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



CENTER LINE GROOVES AT BRIDGES



CENTER LINE GROOVES AT RAILROADS

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S.D.D. 13 A 11-2b

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/15/2013
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

356

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FHWA

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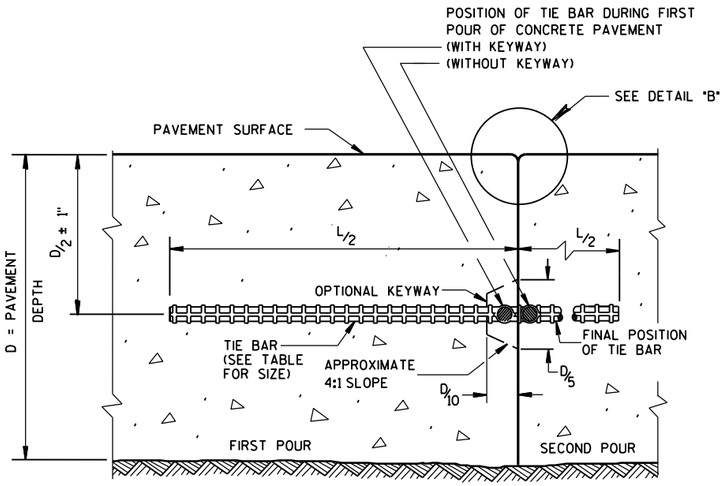
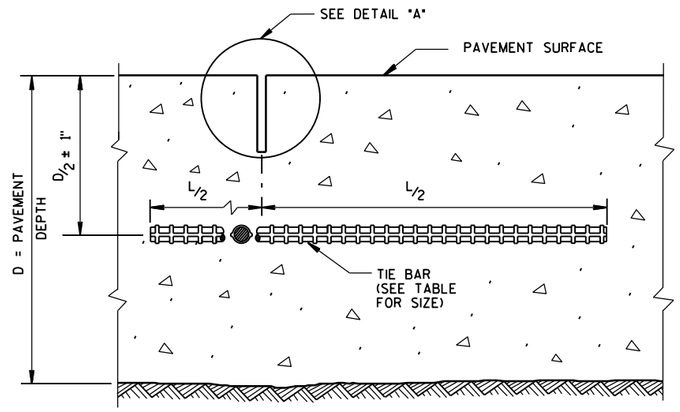
S.D.D. 13 A 11-2b



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

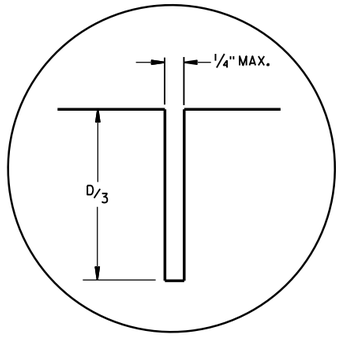
(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

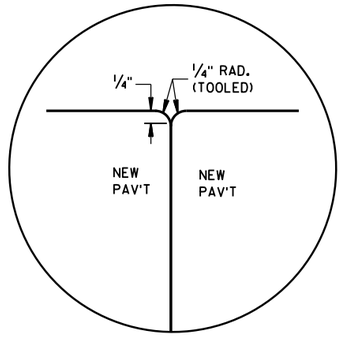
PLAN VIEW

SECTION A-A

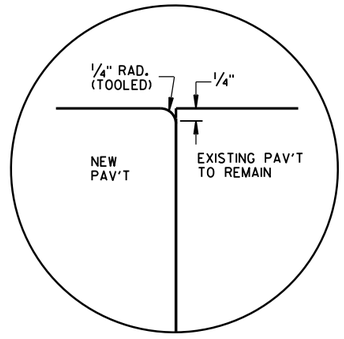
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



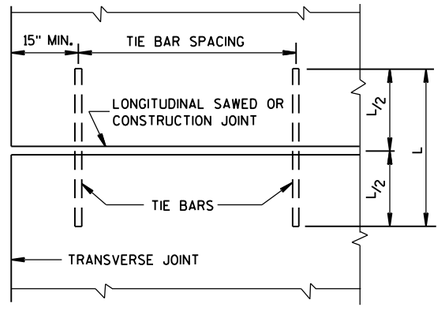
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

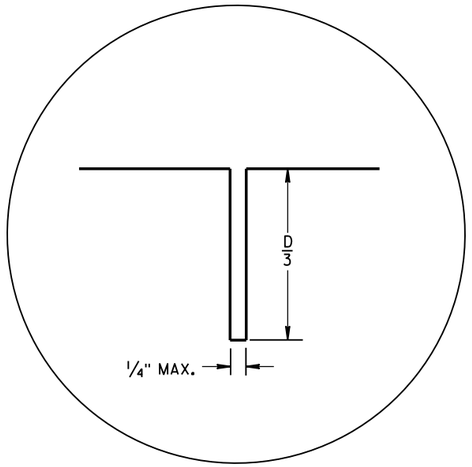
APPROVED
June, 2015
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPER

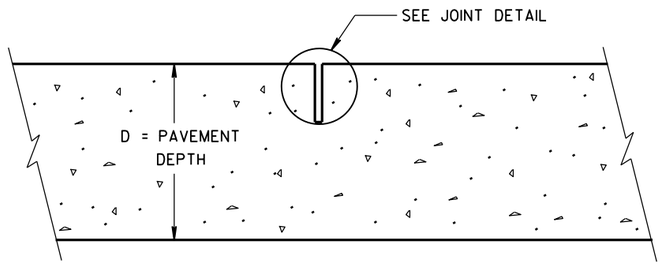
FHWA

6

S.D.D. 13 C 1-18



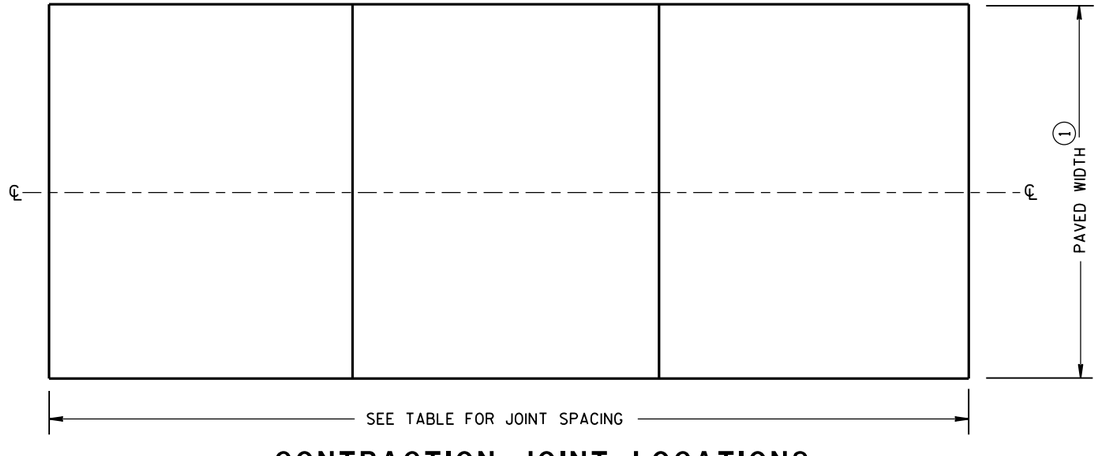
JOINT DETAIL



CONTRACTION JOINT

PAVEMENT DEPTH AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 1/2"	12'
7", 7 1/2"	14'
8" & ABOVE	15'



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE.

LOCATE AND ORIENT CONTRACTION JOINTS THROUGH INTERSECTIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

CONSTRUCTION JOINTS

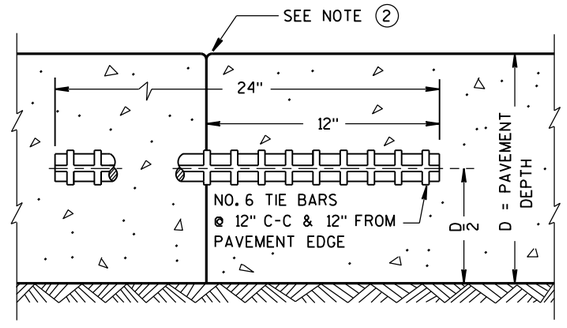
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

FORM OR SAW CONSTRUCTION JOINTS.

THE CONTRACTOR MAY INSERT TIE BARS THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN PLACED.

(1) REFER TO TYPICAL CROSS SECTIONS FOR PAVED WIDTH AND LOCATION OF LONGITUDINAL JOINTS.

(2) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.



TIED TRANSVERSE CONSTRUCTION JOINT

6

6

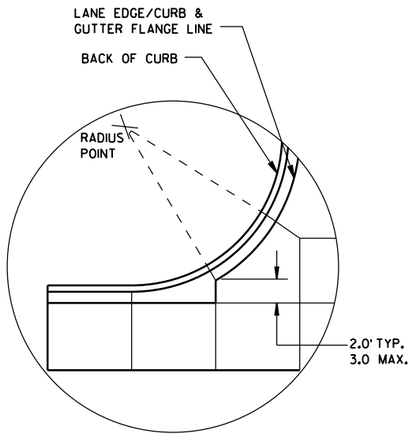
S.D.D. 13 C 4-16

S.D.D. 13 C 4-16

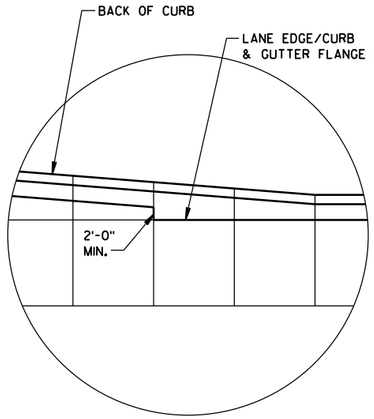
URBAN NON-DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

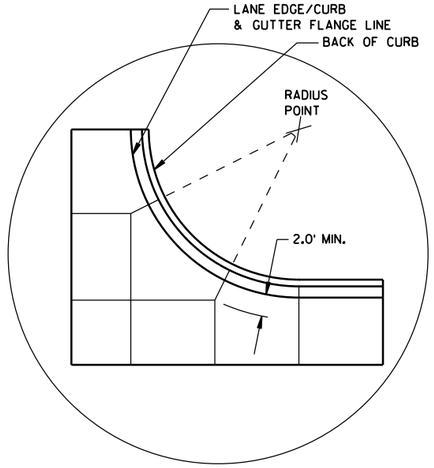
APPROVED
5-3-2013 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & DE
IEER
FHWA



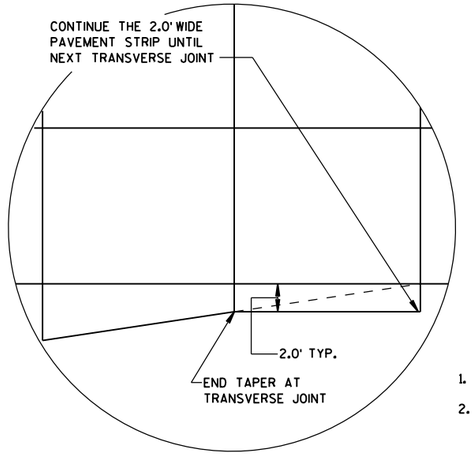
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

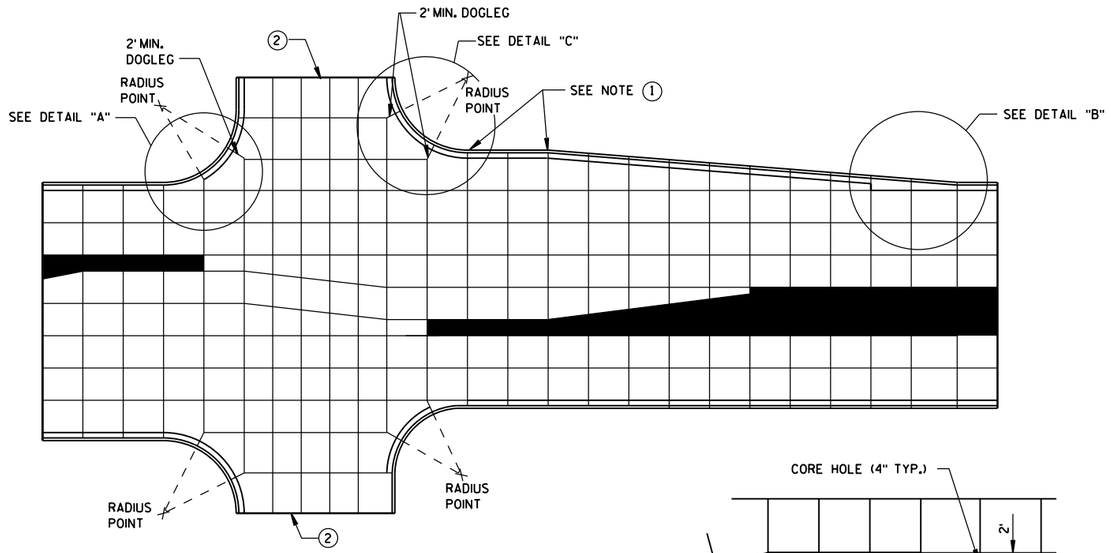
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

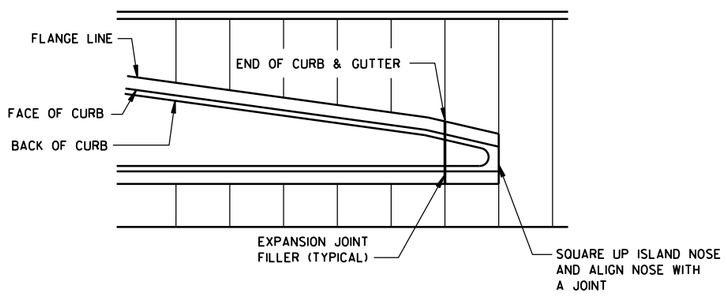
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



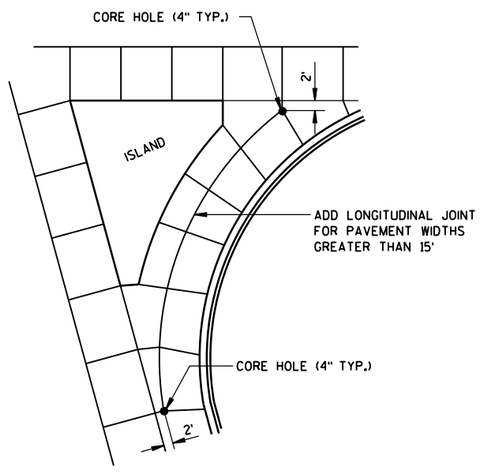
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

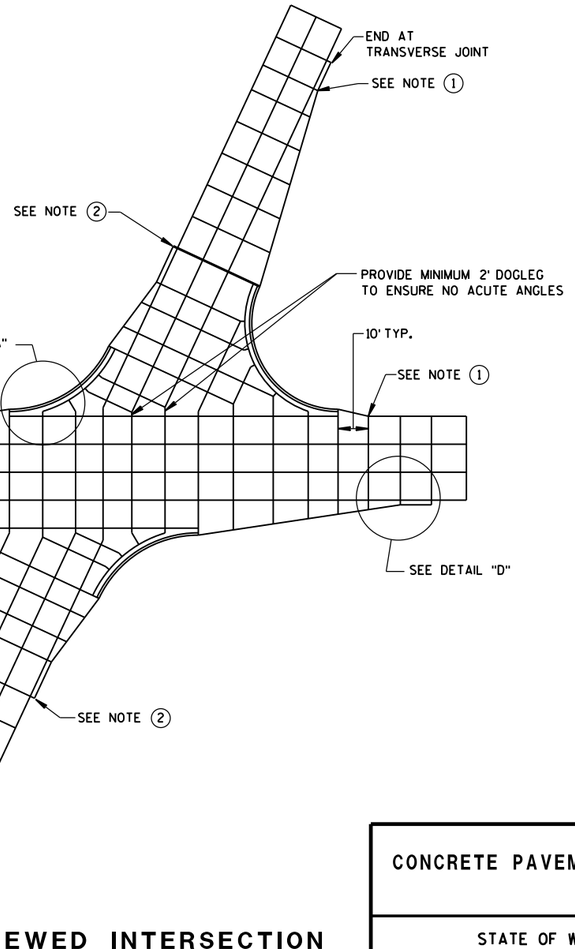
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



APPROACH TO MEDIAN



LARGE RIGHT TURN



SKEWED INTERSECTION

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 359

6

S.D.D. 13 C 18-4a

6

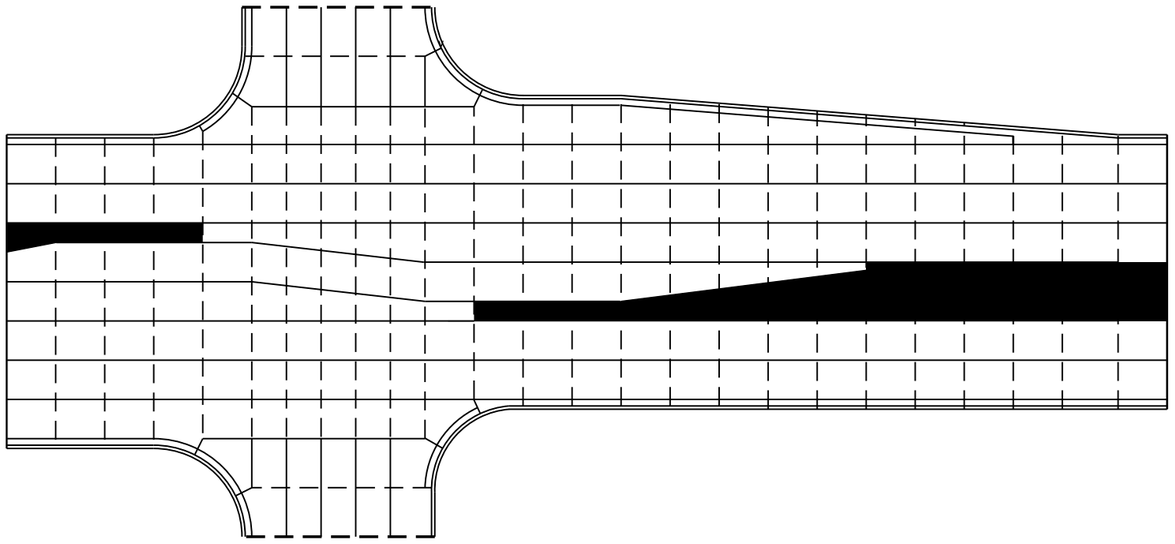
S.D.D. 13 C 18-4a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

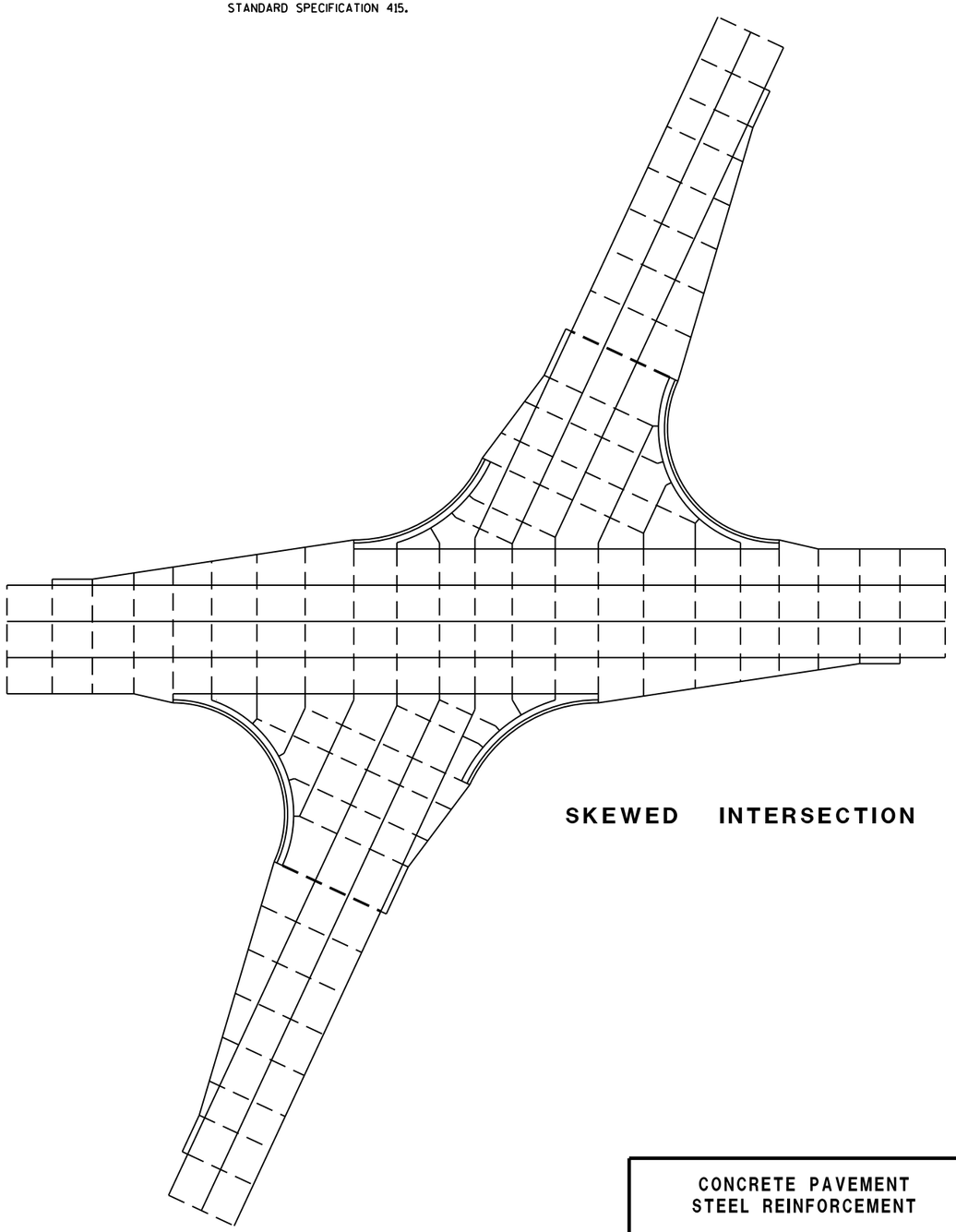
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

CONCRETE PAVEMENT
STEEL REINFORCEMENT

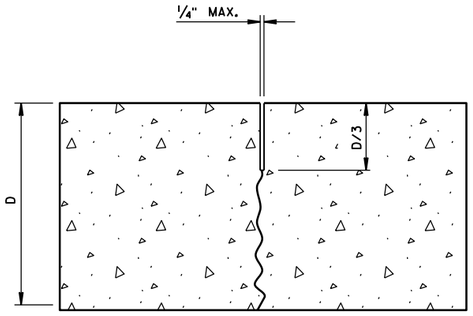
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

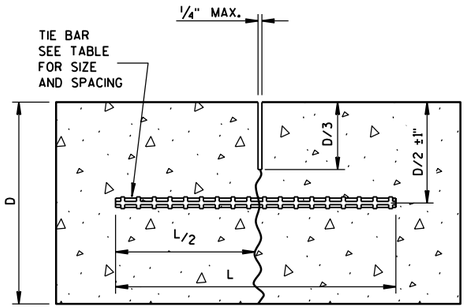
S.D.D. 13 C 18-4b

6

S.D.D. 13 C 18-4b



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

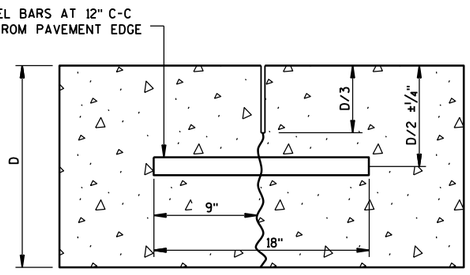
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

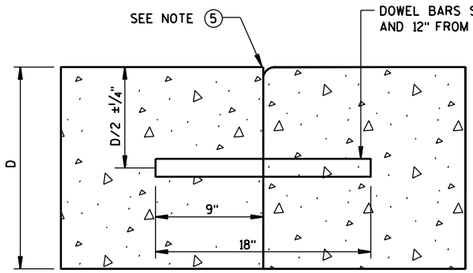
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



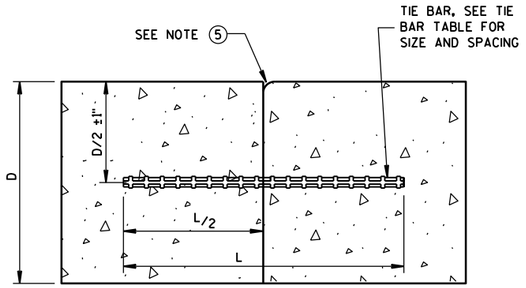
DOWELED-TRANSVERSE

CONTRACTION JOINTS

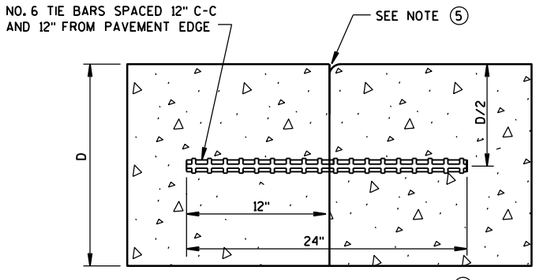
SEE NOTE (2)



DOWELED TRANSVERSE (3)

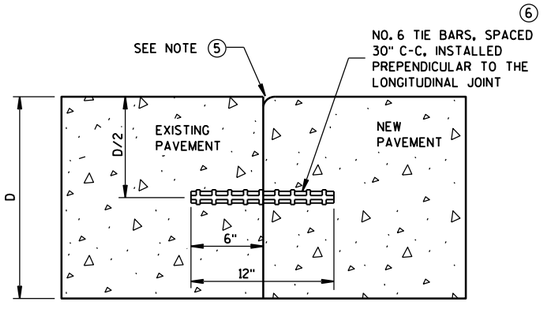


TIED LONGITUDINAL



TIED TRANSVERSE (3)

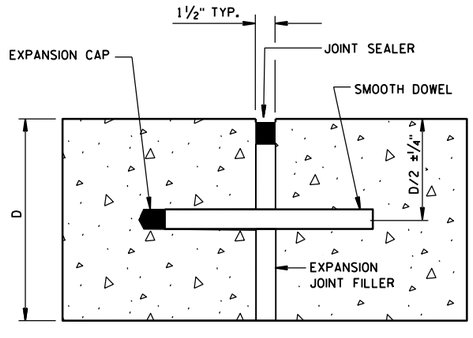
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

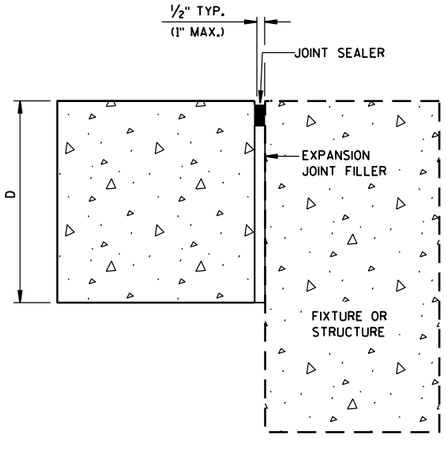
CONSTRUCTION JOINTS

SEE NOTE (4)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

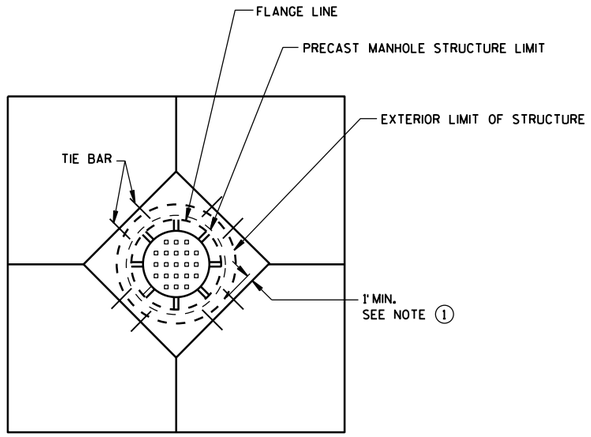
EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

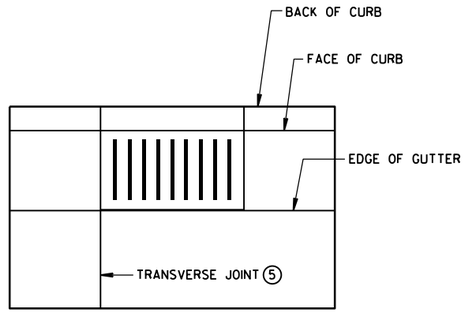
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

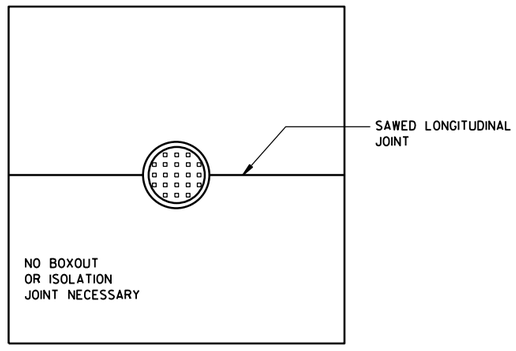
S.D.D. 13 C 18-4c



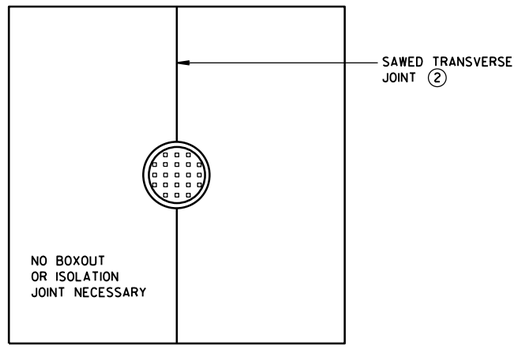
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



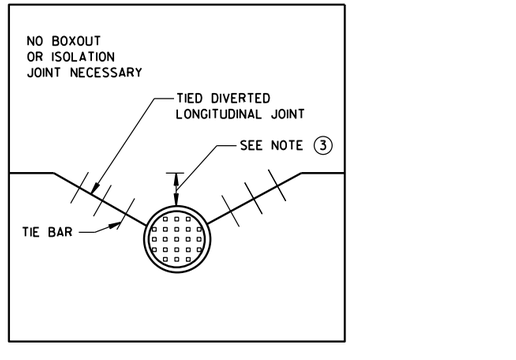
INLET WITH TRANSVERSE JOINT



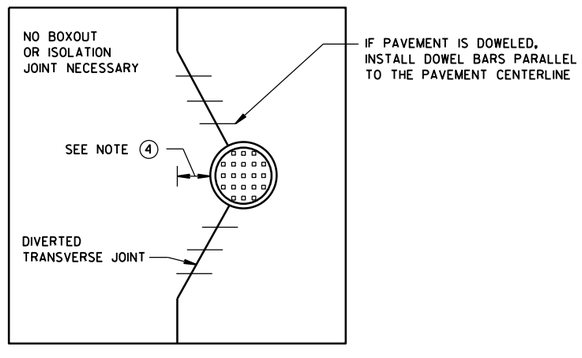
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

(1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

(2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

(3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

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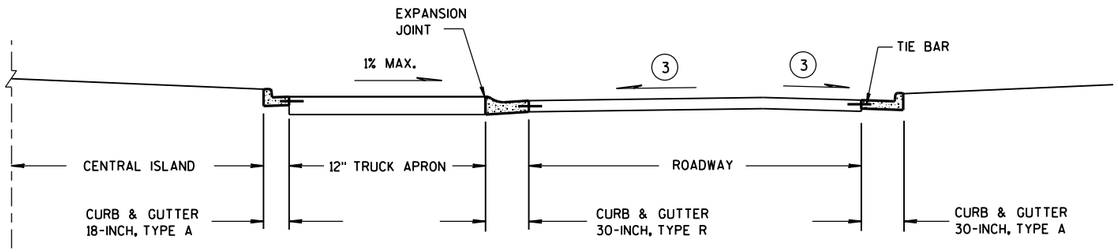
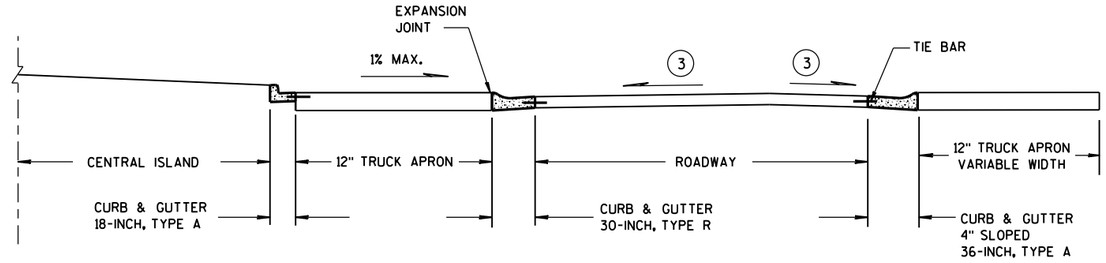
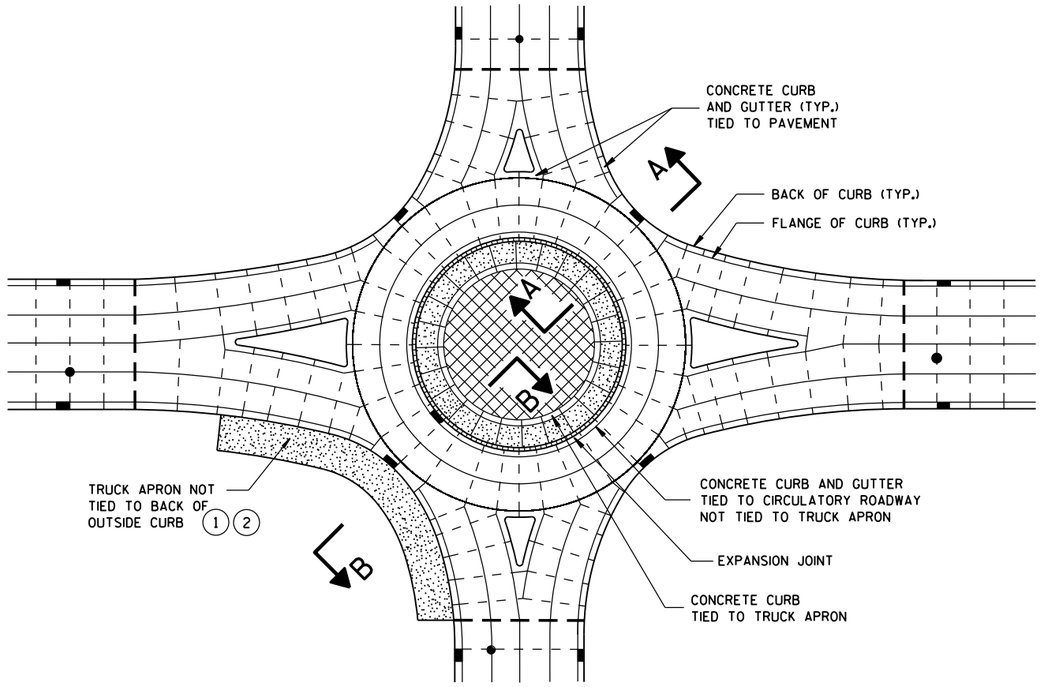
S.D.D. 13 C 18-4d



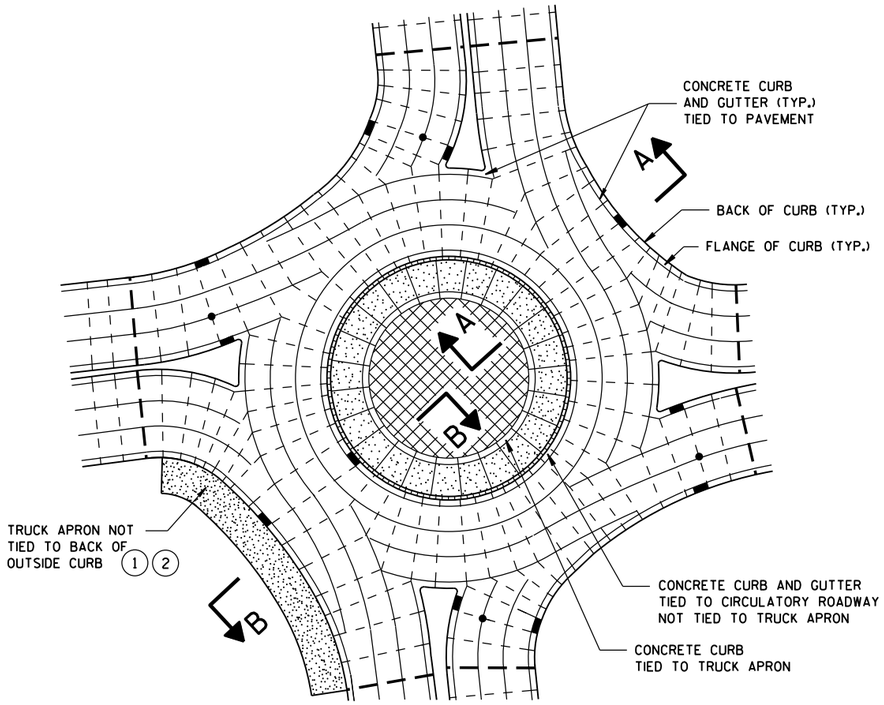
SECTION A-A



SECTION B-B



ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS



PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

GENERAL NOTES

MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18 SHEET "a".

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.

(1) DESIGNER DETERMINES SIZE AND LOCATION(S) OF TRUCK APRON TO ACCOMMODATE TRACKING OF OVERSIZE/OVERWEIGHT VEHICLES.

(2) DO NOT TIE THE OUTSIDE TRUCK APRON TO THE BACK SIDE OF CURB WHEN THE TRUCK APRON WIDTH IS 3 FEET OR GREATER AT ANY LOCATION.

(3) CONFORM TO PLAN CONSTRUCTION DETAILS FOR CIRCULATORY ROADWAY CROSS SLOPE.

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES

CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPE
FHWA

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S.D.D. 13 C 18-4e

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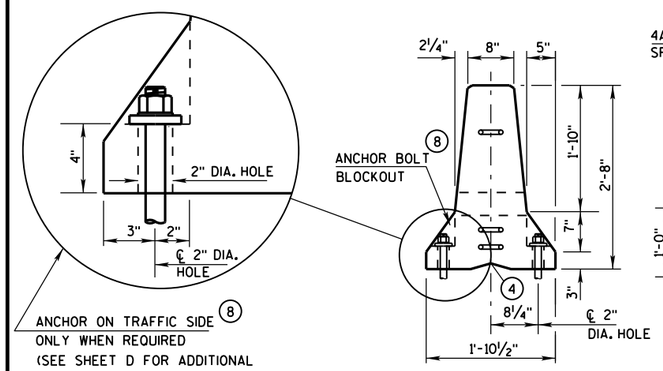
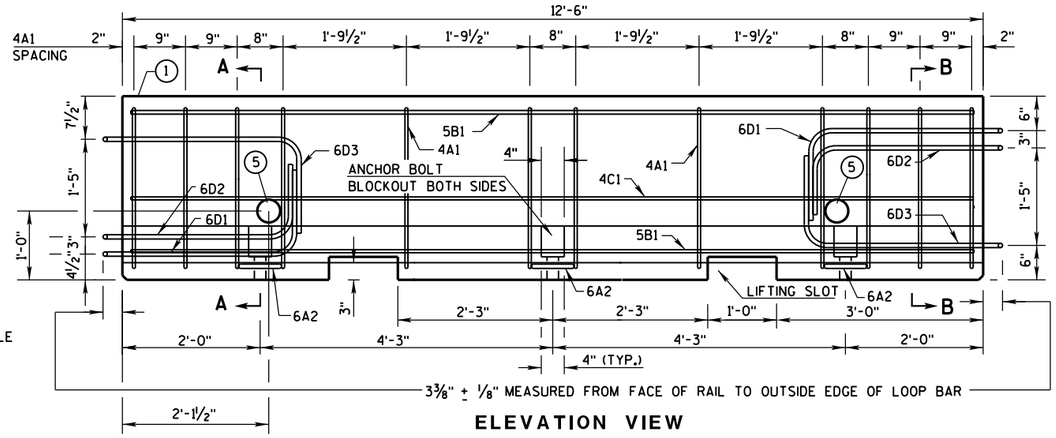
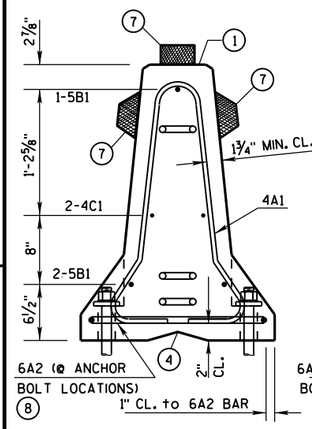
S.D.D. 13 C 18-4e



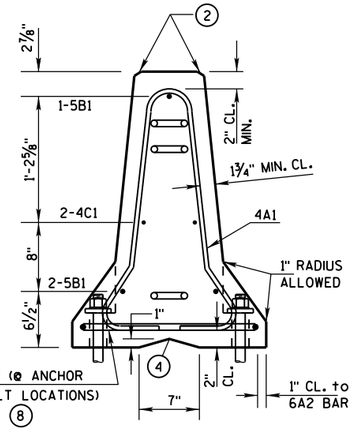
END VIEW



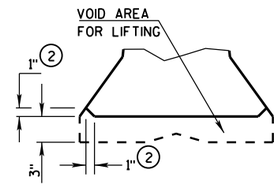
ELEVATION VIEW



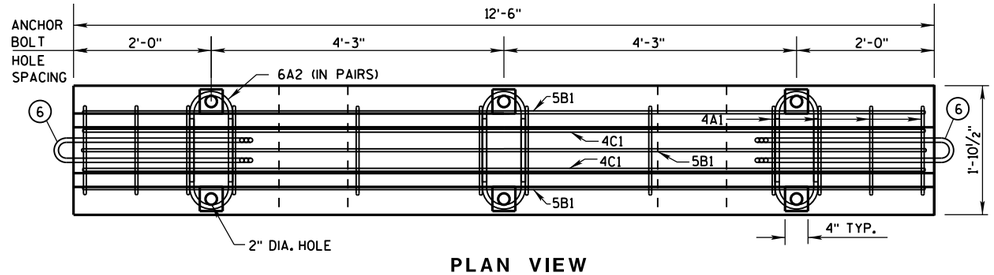
SECTION A-A
(STIRRUP PLACEMENT)



SECTION B-B
(STIRRUP PLACEMENT)

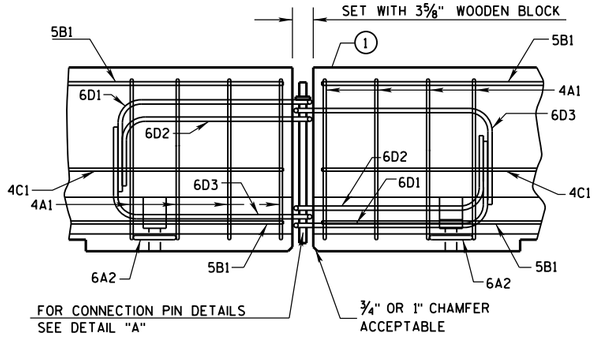


DETAIL "B"
LIFTING SLOT DETAIL

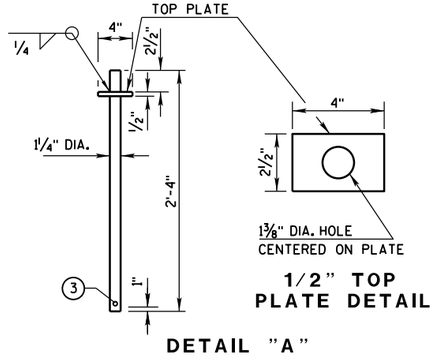


PLAN VIEW

DETAILS OF BARRIER SECTION

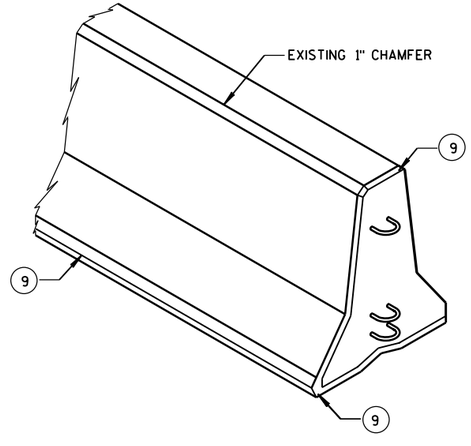


DETAILS OF BARRIER CONNECTION



1/2" TOP PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-14(a) THRU 14B7-14(h).

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 ANCHORING CRITERIA.

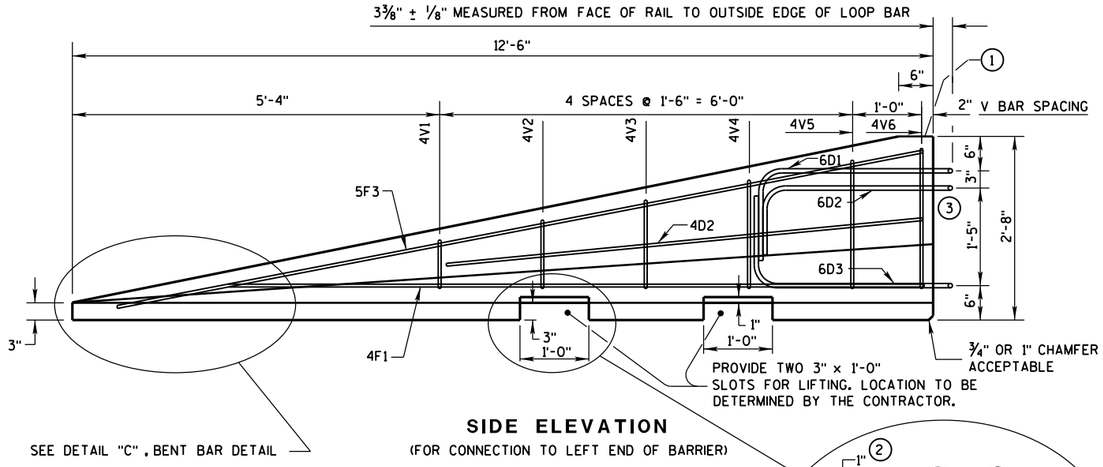
(9) 1" CHAMFER OPTIONAL.

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

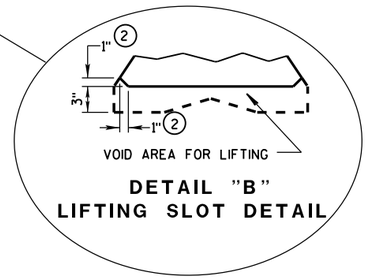
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

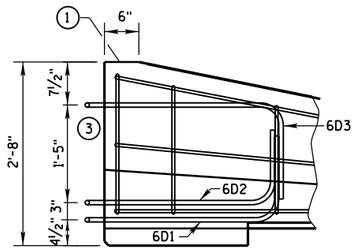
S.D.D. 14 B 7-14a



SIDE ELEVATION
(FOR CONNECTION TO LEFT END OF BARRIER)



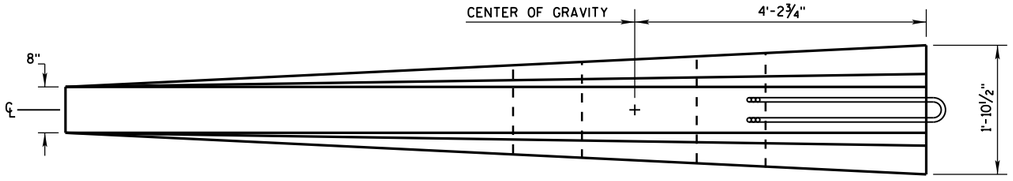
DETAIL "B"
LIFTING SLOT DETAIL



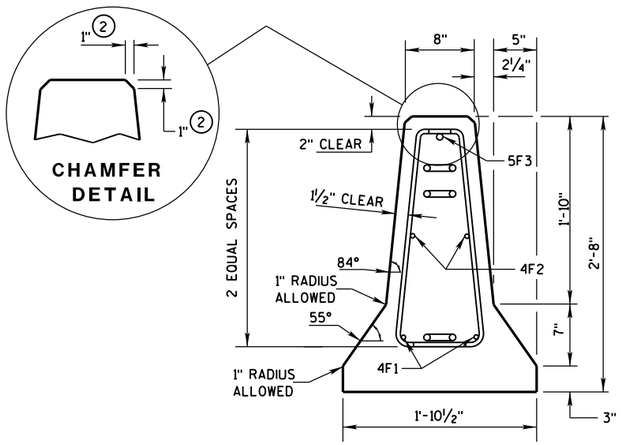
SIDE ELEVATION
LOOP BAR ASSEMBLY INVERTED
FOR OPPOSITE END.
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

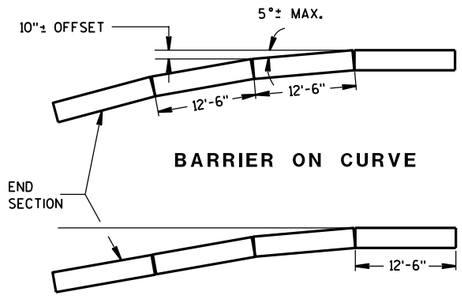
1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.



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 TRANSPOR

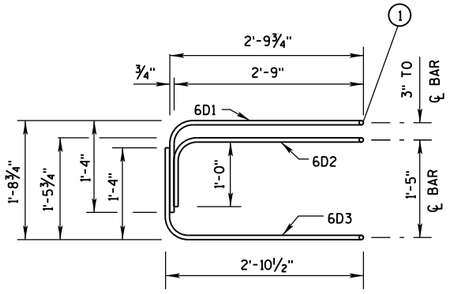
6

S.D.D. 14 B 7-14b

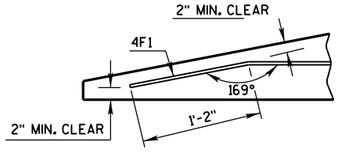
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

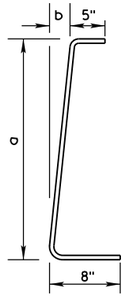
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



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

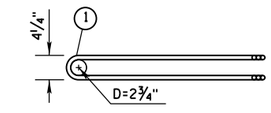
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

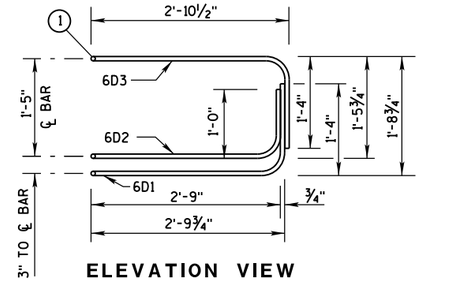
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

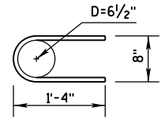
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



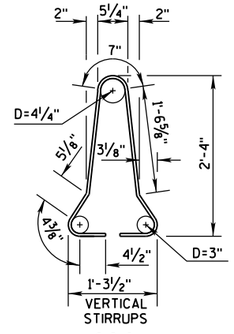
PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



ELEVATION VIEW



6A2



4A1

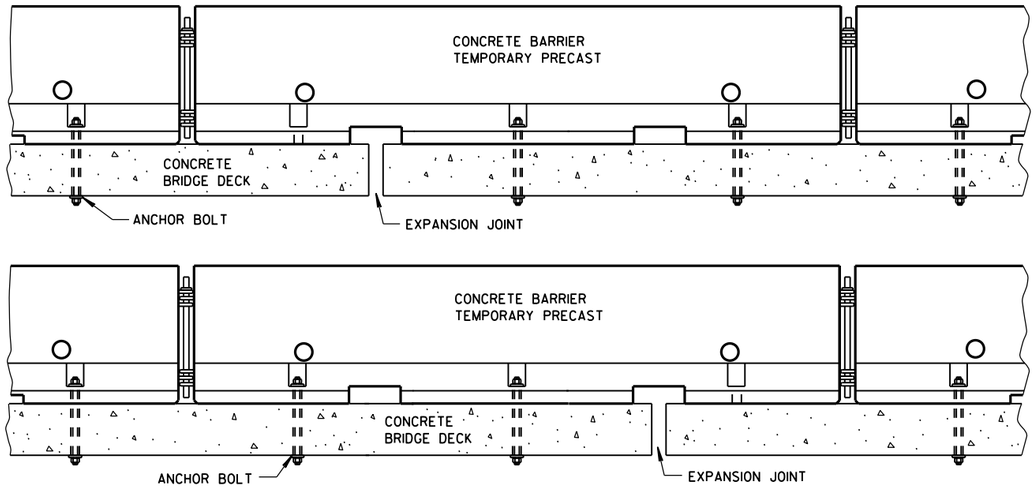
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

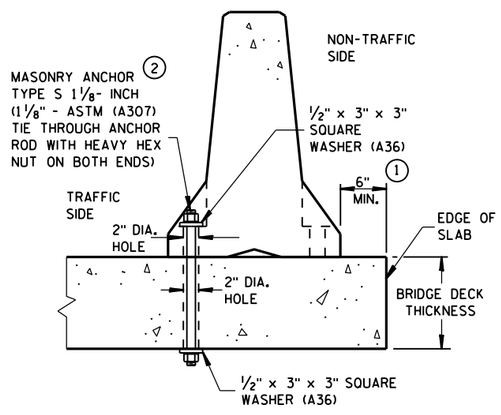
6

S.D.D. 14 B 7-14c



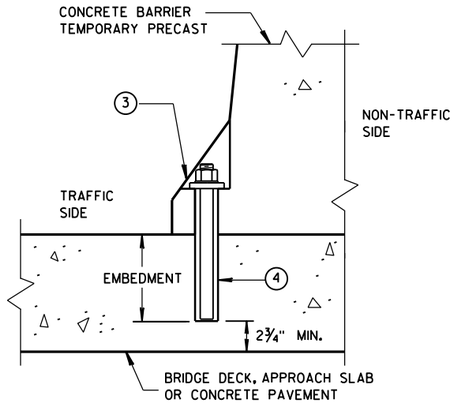
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(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.)



THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)



REMOVABLE ADHESIVE BONDED ANCHOR ② INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

① CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF:
THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

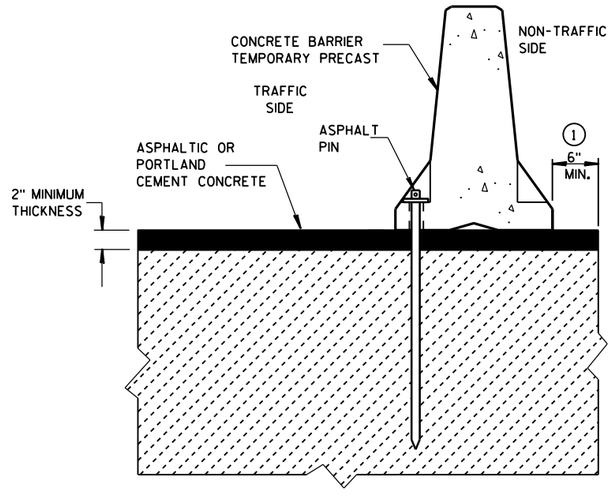
② ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1⅛-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALL ANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CONCRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.

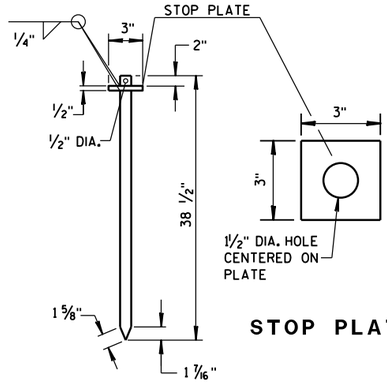
③ 1⅛" DIAMENTER A307 THREADED ROD, ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.

④ 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.



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

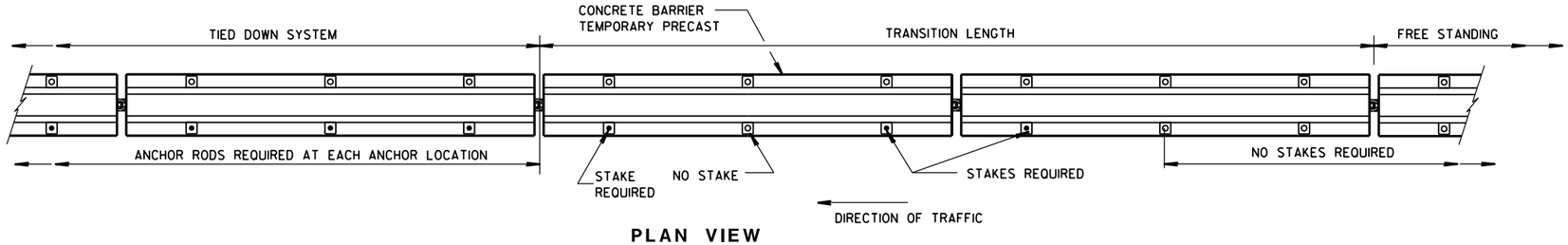
(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



STOP PLATE

ASPHALT 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"

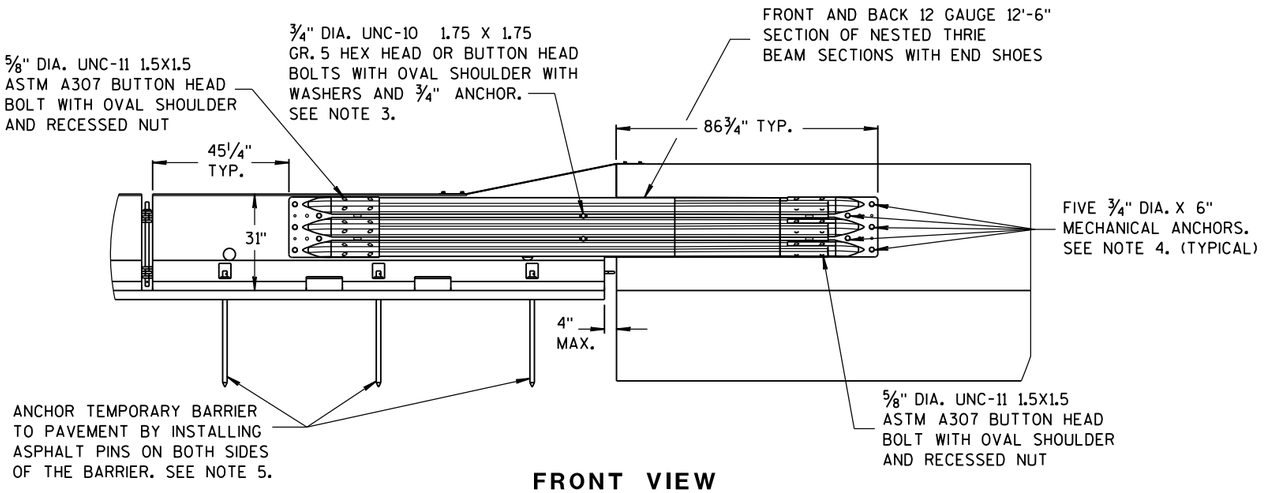
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 367

6

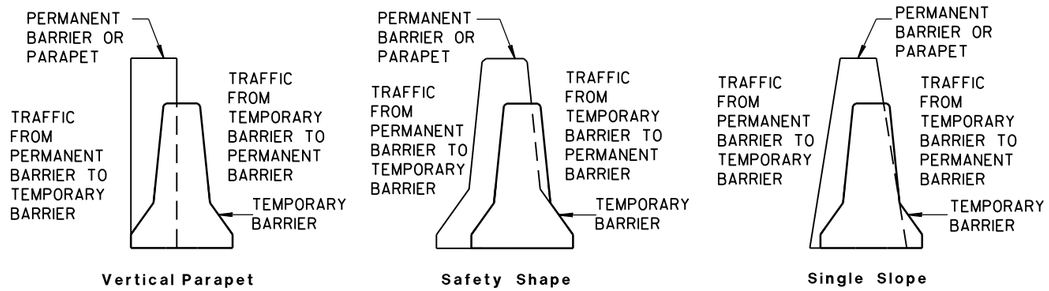
S.D.D. 14 B 7-14d

6

S.D.D. 14 B 7-14d



FRONT VIEW

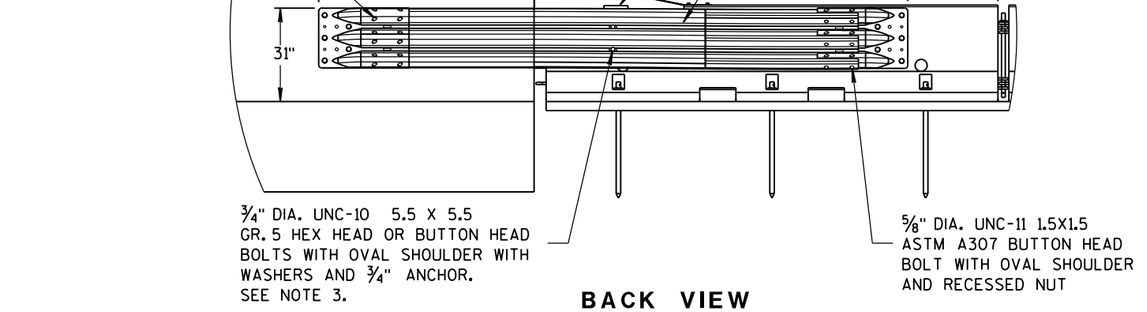


TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

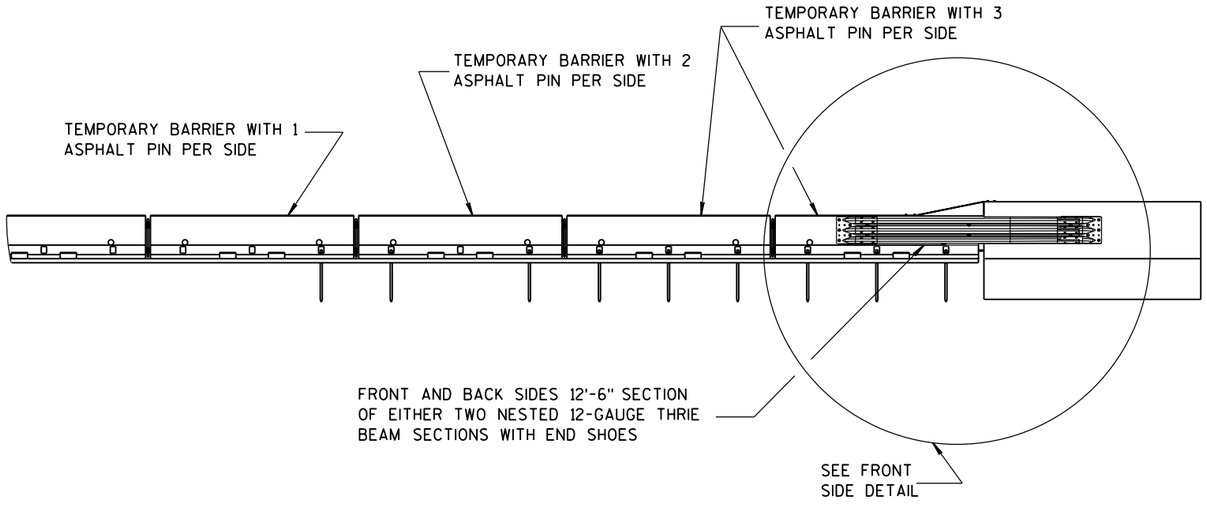
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS.

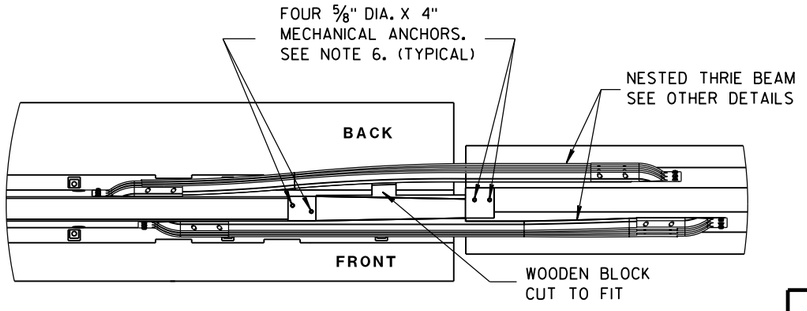
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 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.



BACK VIEW



FRONT VIEW



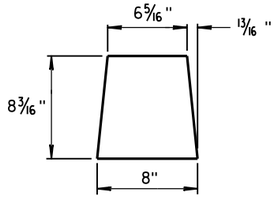
PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

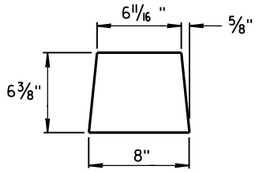
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6
S.D.D. 14 B 7-14e



GUSSET 1



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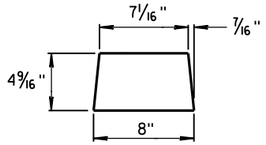
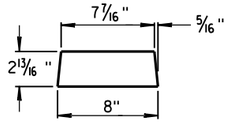
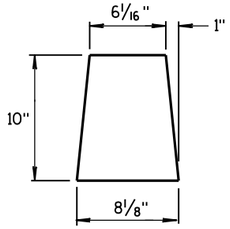


GUSSET 3

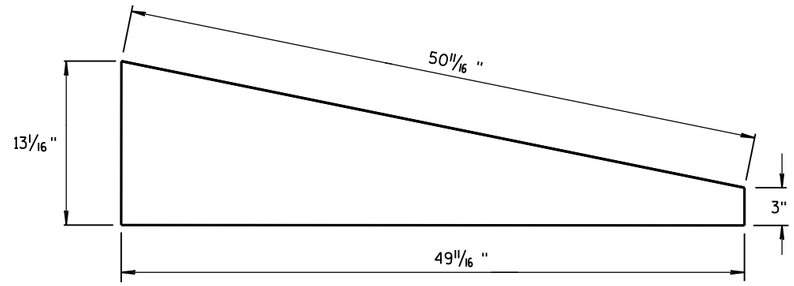


GUSSET 4

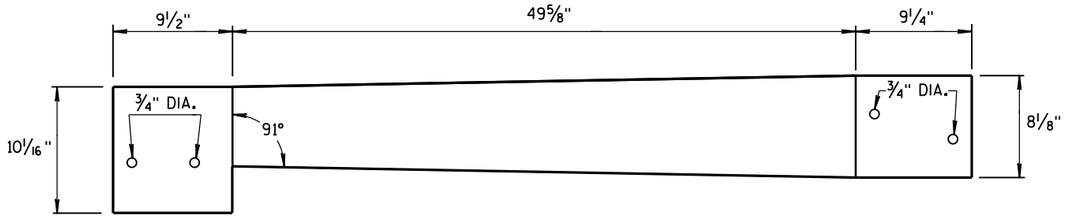
GUSSETS

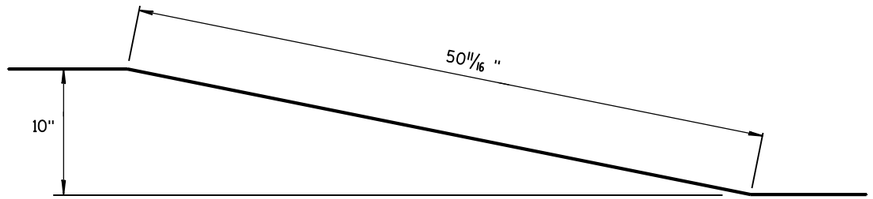


END PLATE



SIDE PLATE

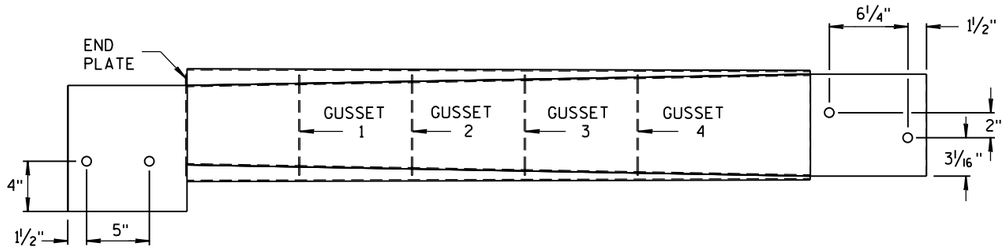


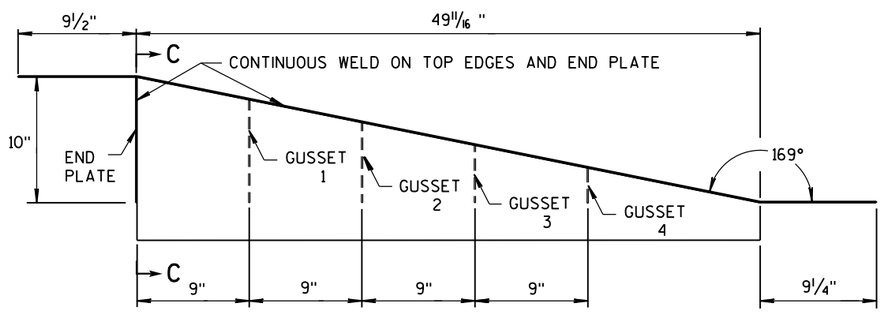


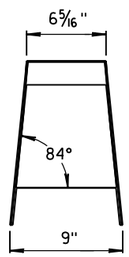
TOP PLATE

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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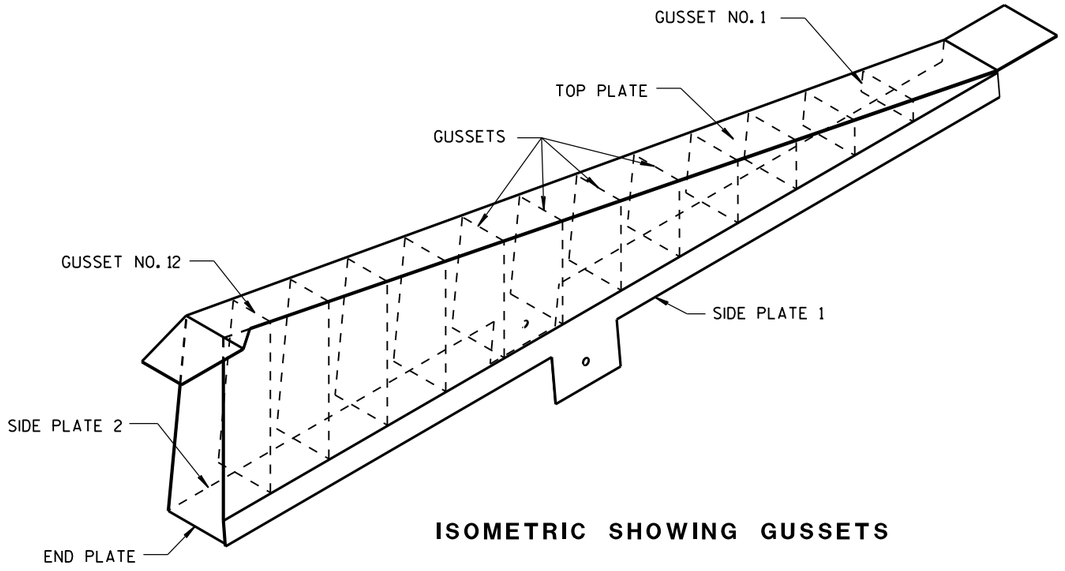
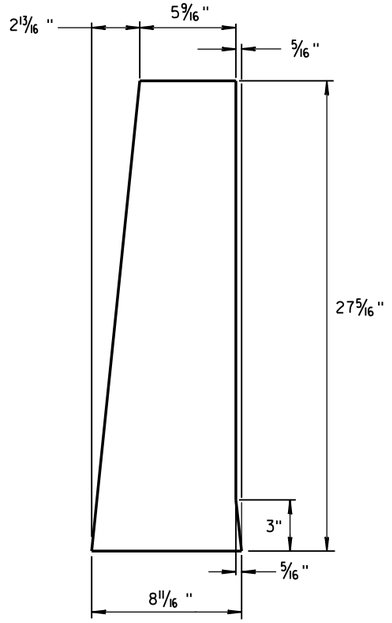
S.D.D. 14 B 7-14f

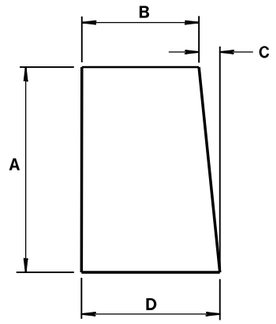


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



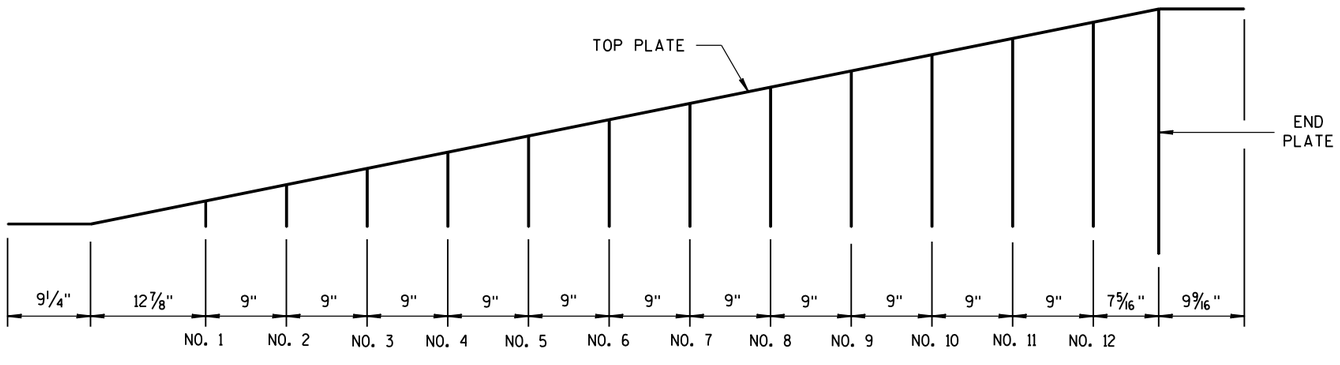
GUSSETS 1 - 12

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
DEPARTMENT OF TRANSPOI

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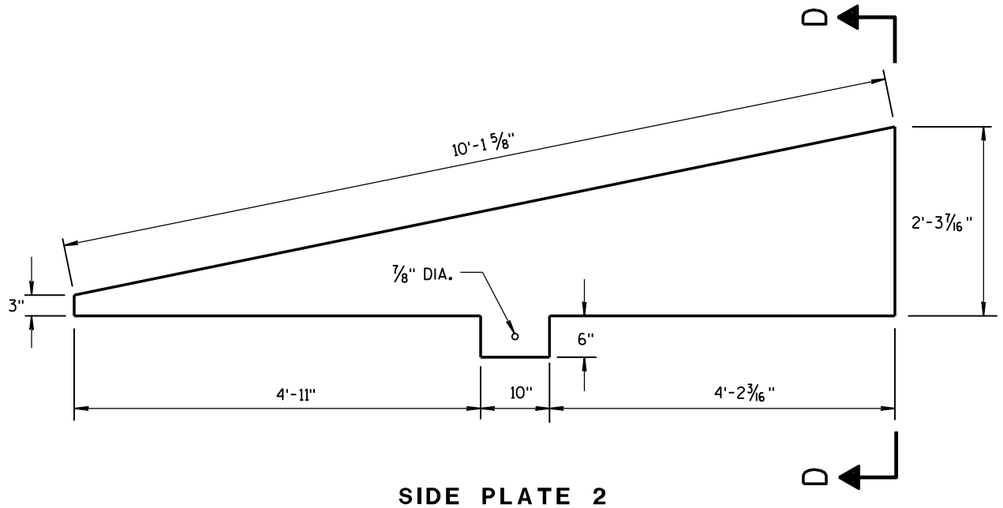
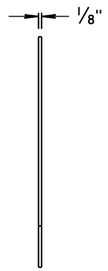
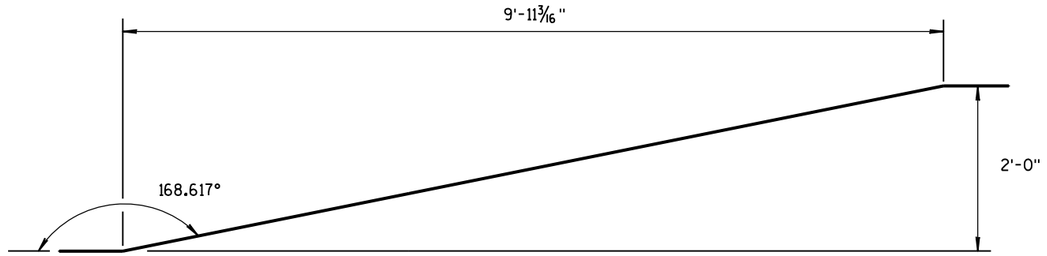
S.D.D. 14 B 7-14g



SIDE PLATE 2

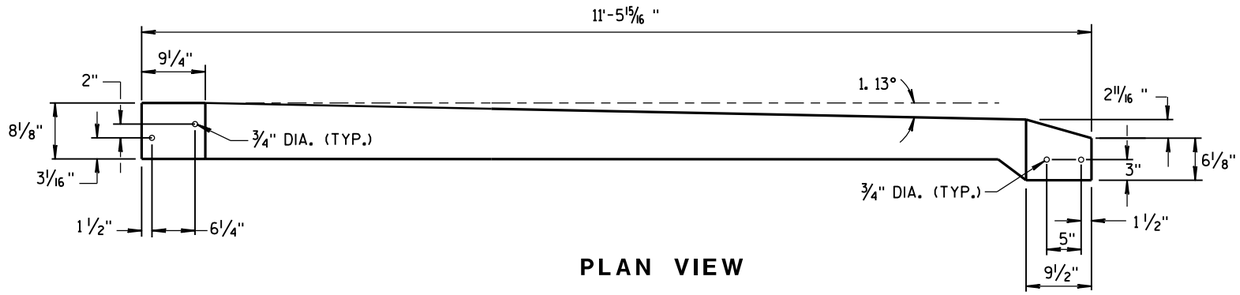


END VIEW



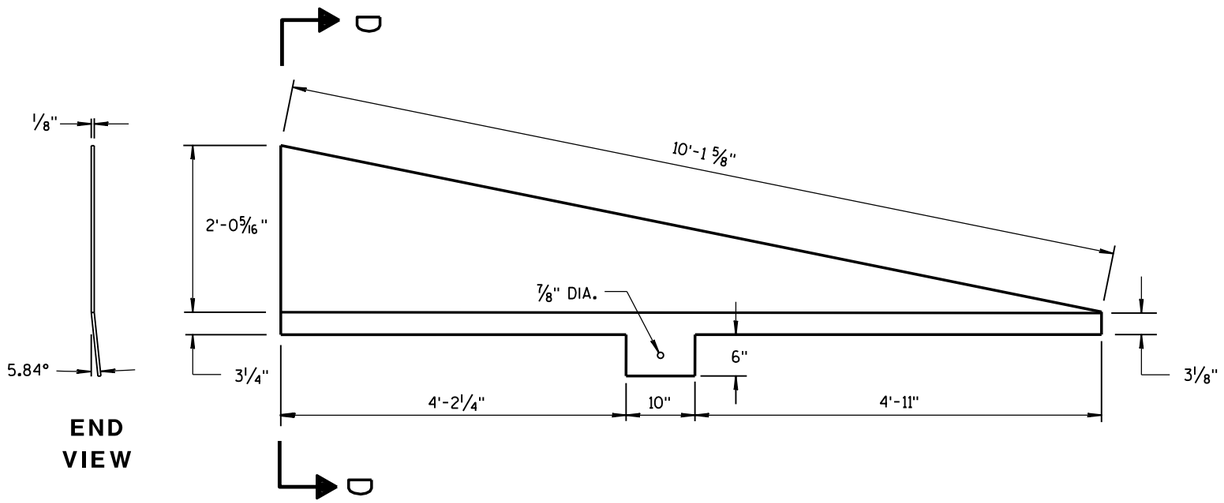
SIDE VIEW

TOP PLATE



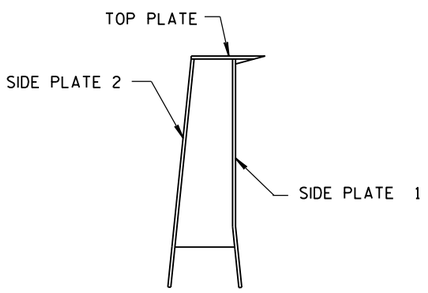
PLAN VIEW

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 2014 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARD DEVELOPMENT ENGINEER
FHWA

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S.D.D. 14 B 7-14h

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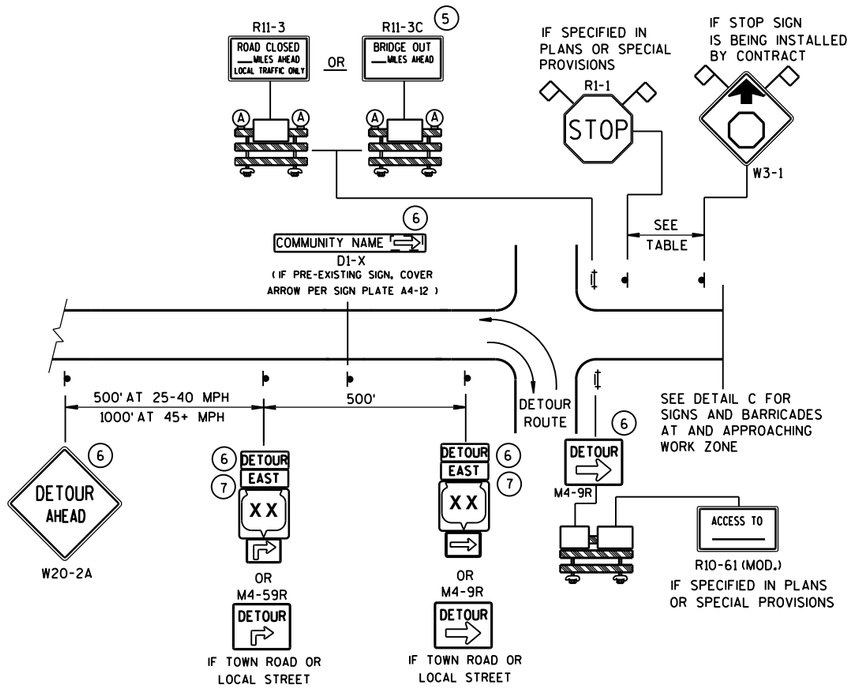
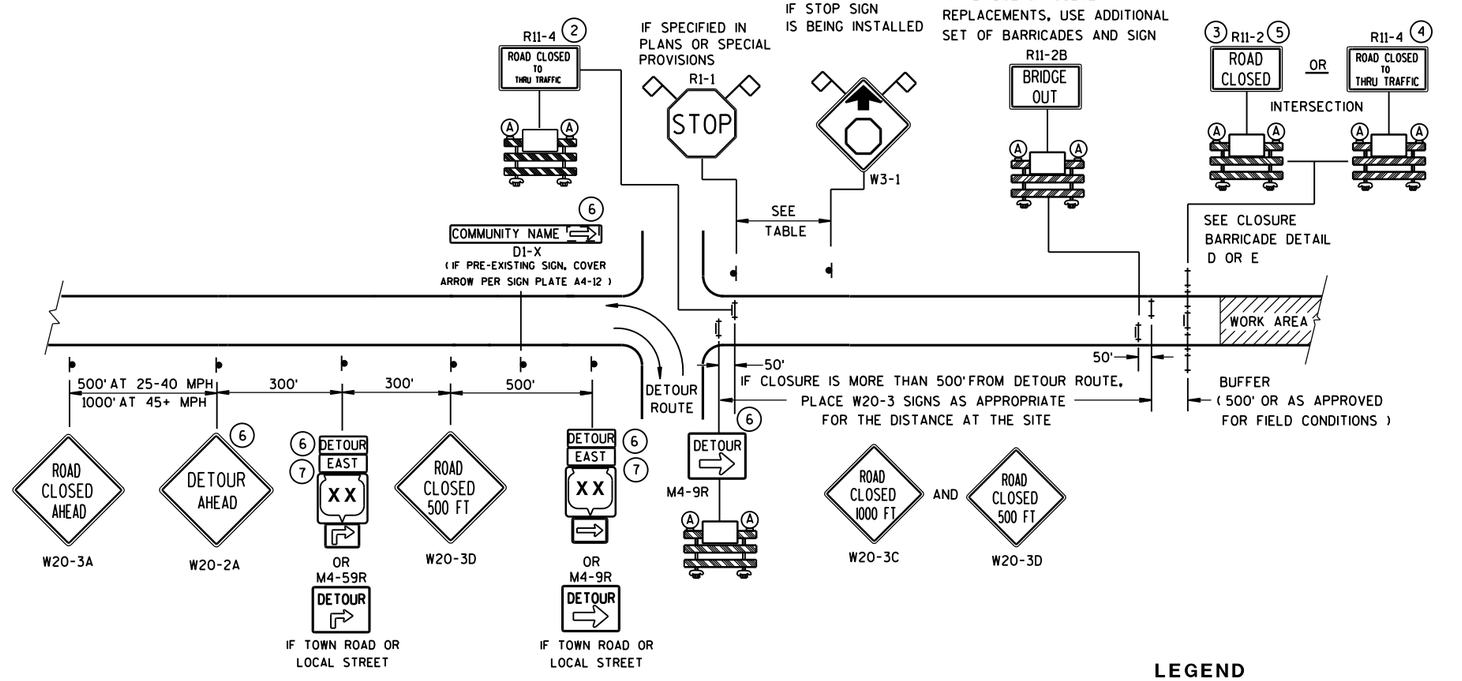
S.D.D. 14 B 7-14h



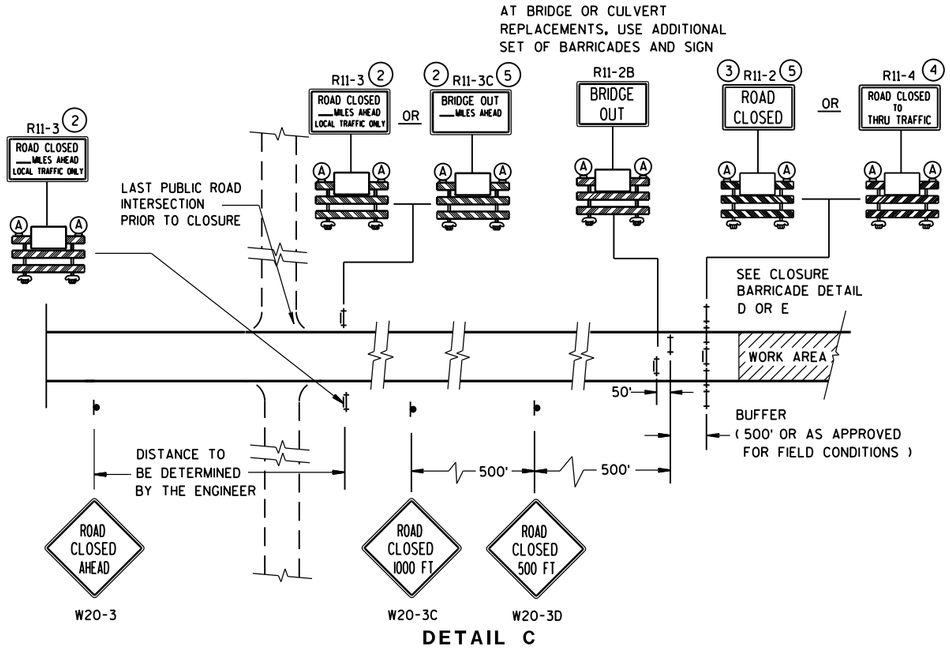
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

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

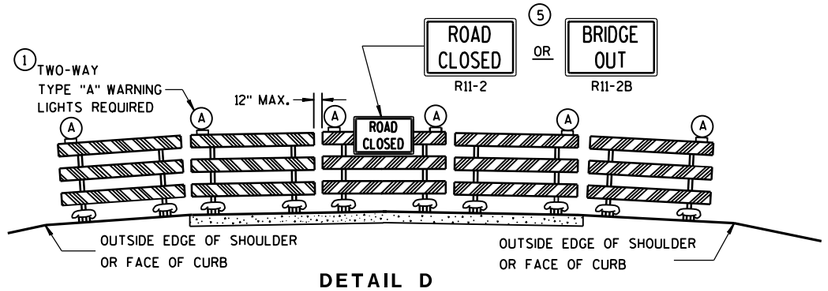
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

S.D.D. 15 C 2-6a

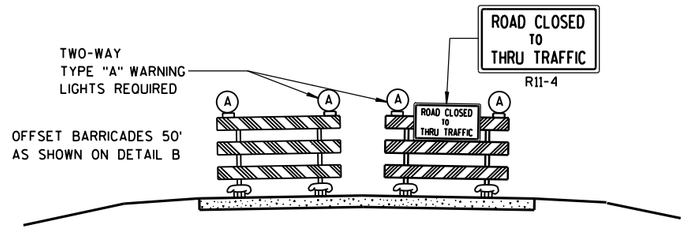
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI

FHWA

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S.D.D. 15 C 2-6b

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S.D.D. 15 C 2-6b

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

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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

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

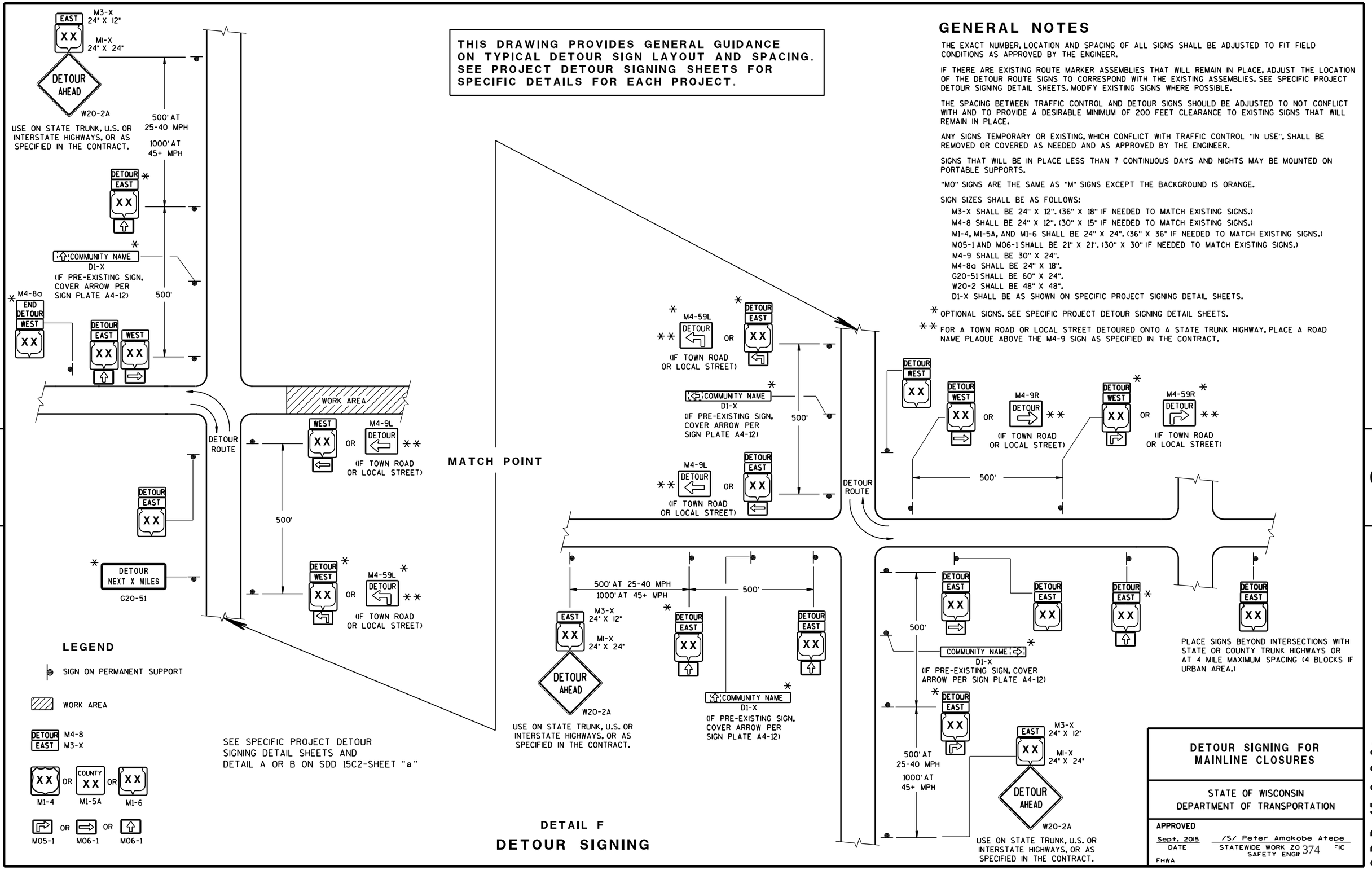
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI...

FHWA

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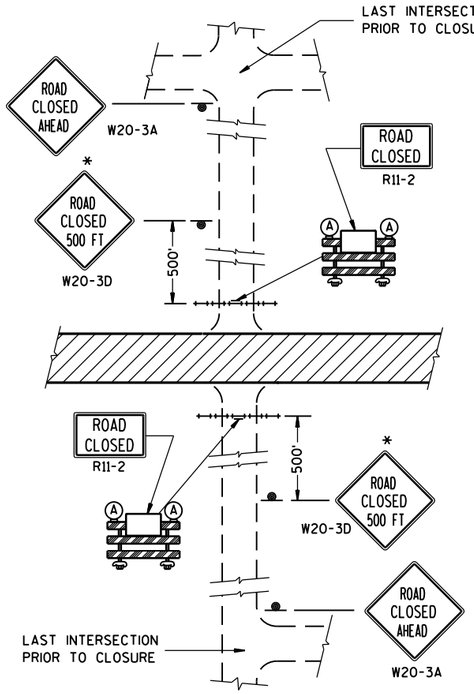
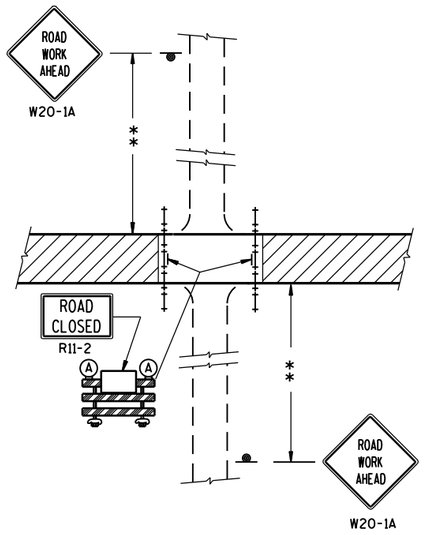


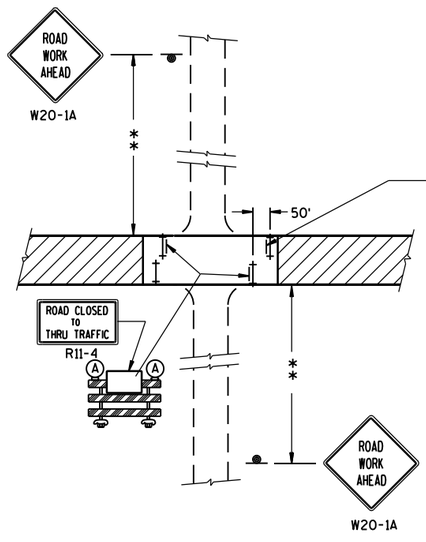
DETAIL 1

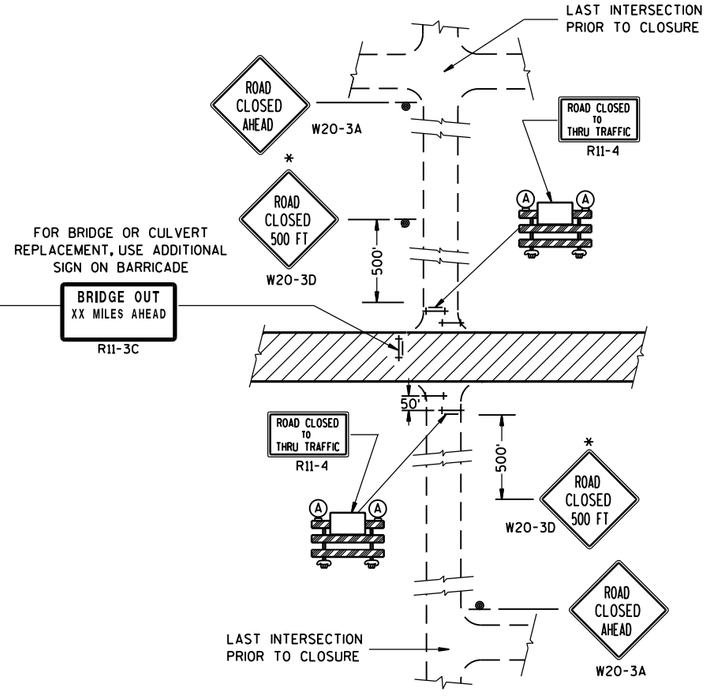
(NO ACCESS TO PROJECT)



DETAIL 2

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





DETAIL 3

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

DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

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

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

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

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

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

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

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI... — FHWA

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S.D.D. 15 C 3-3

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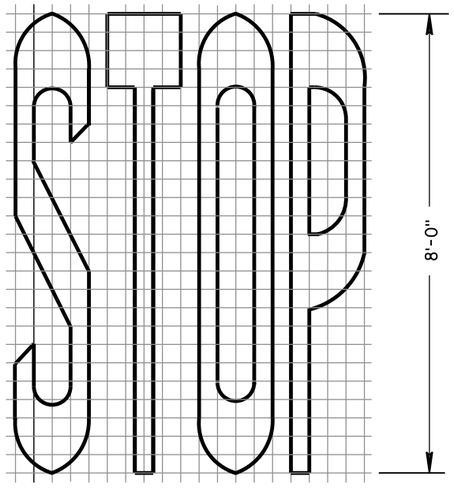
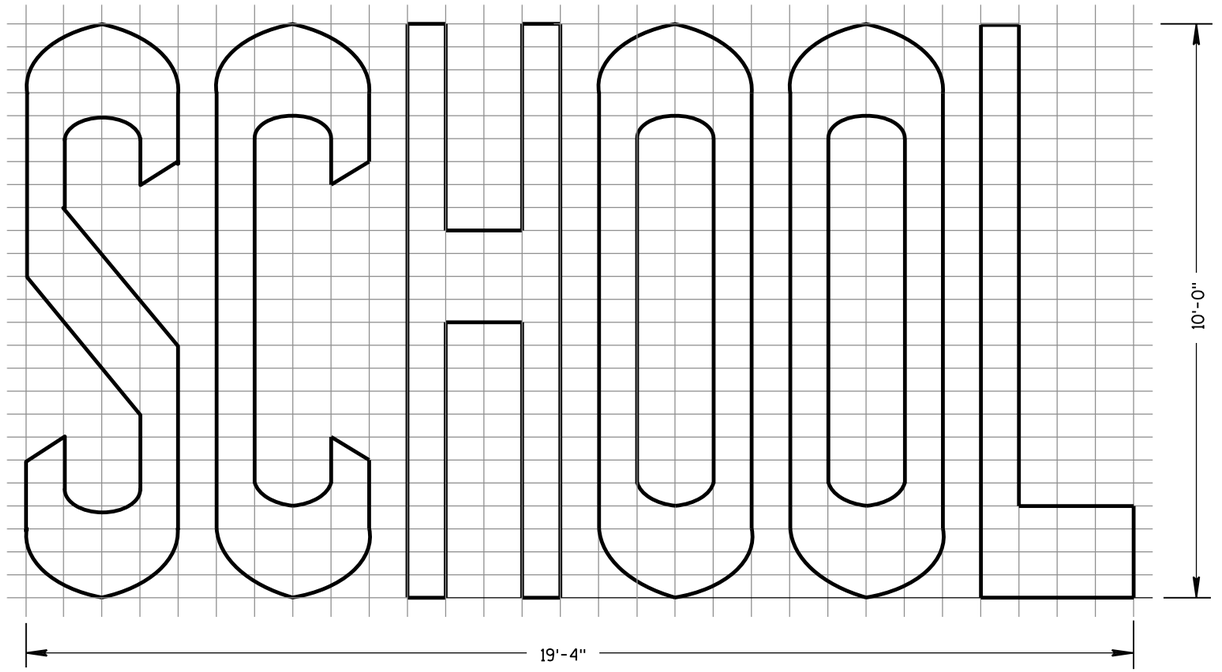
S.D.D. 15 C 3-3

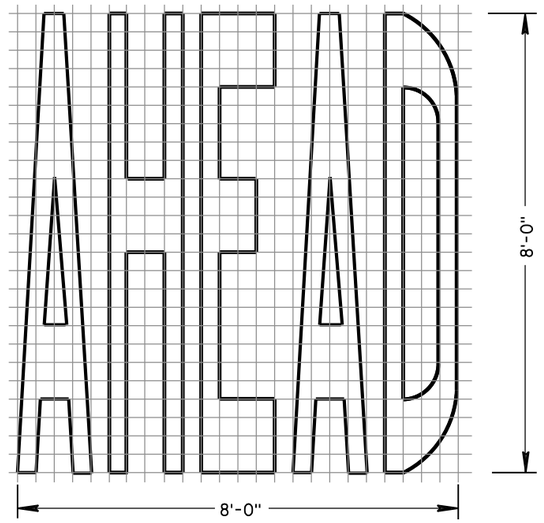
GENERAL NOTES

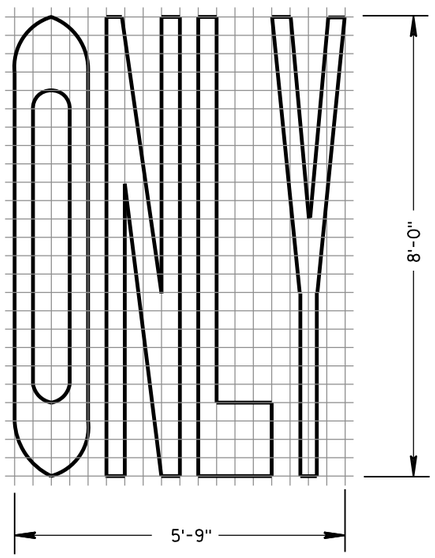
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

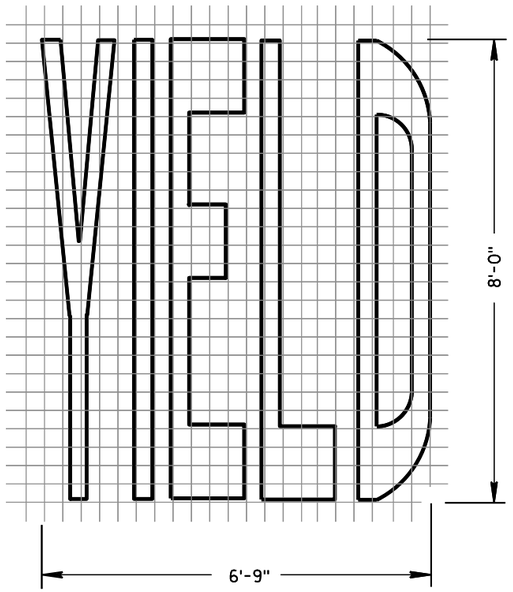


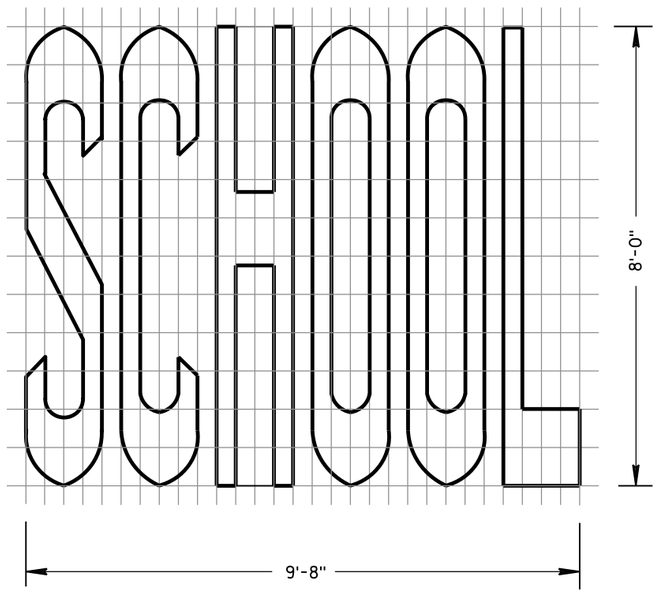


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-16	/S/ Matthew R. Rauch	
DATE	STATE SIGNING AND MARK	EER

FHWA

6

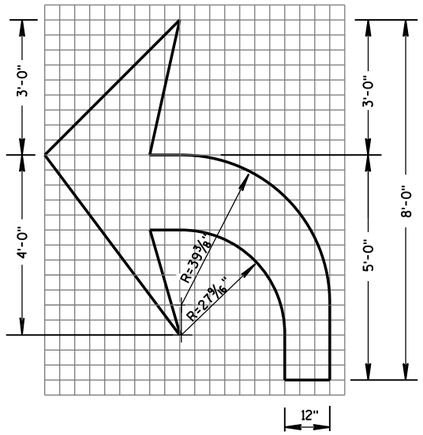
S.D.D. 15 C 7-13b

6

S.D.D. 15 C 7-13b

GENERAL NOTES

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



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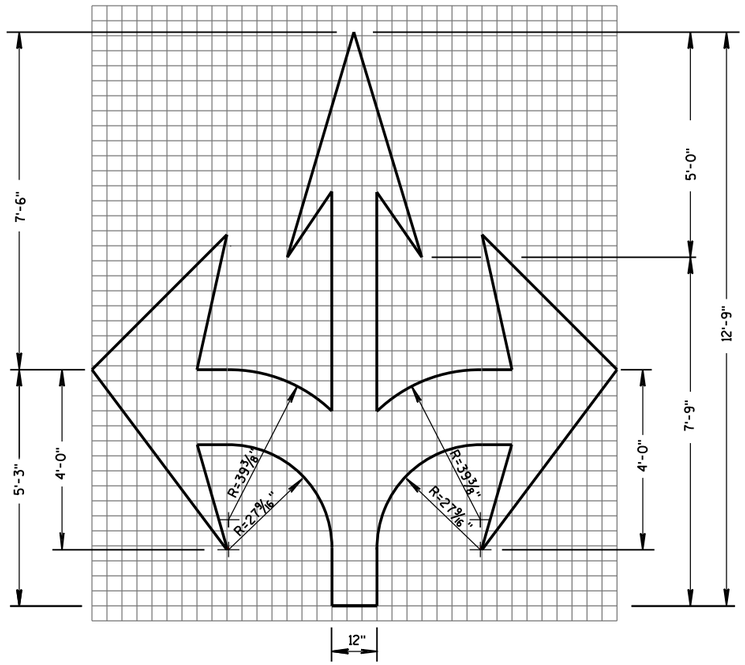
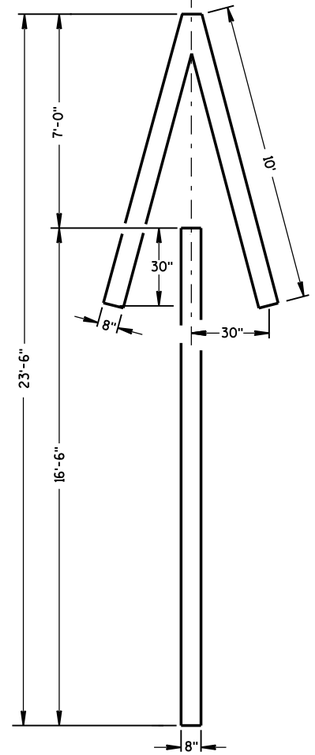
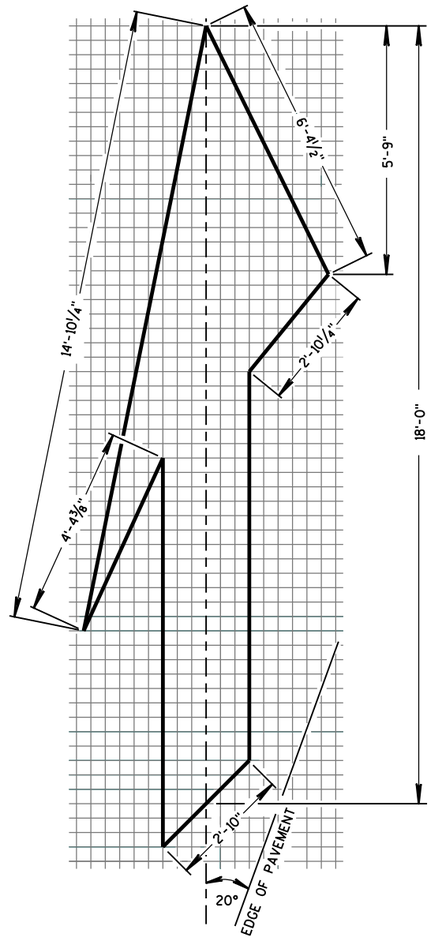


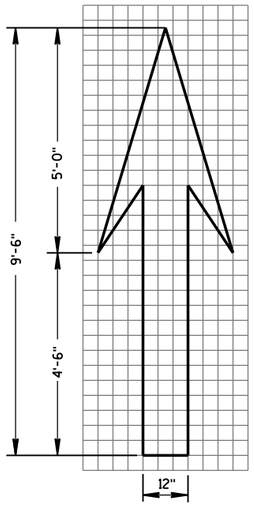
TYPE 6



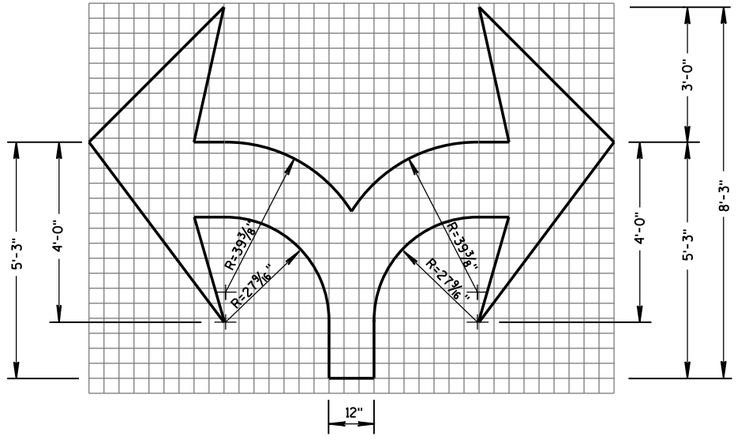
TYPE 4



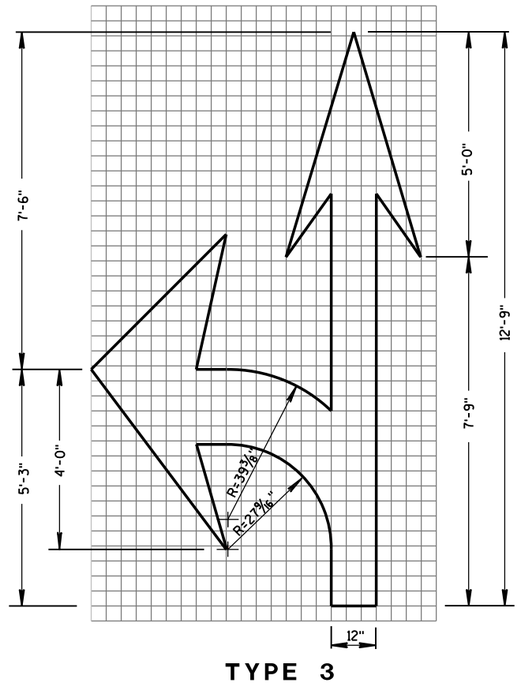
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-18-16 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR 377 NEER
FHWA

6

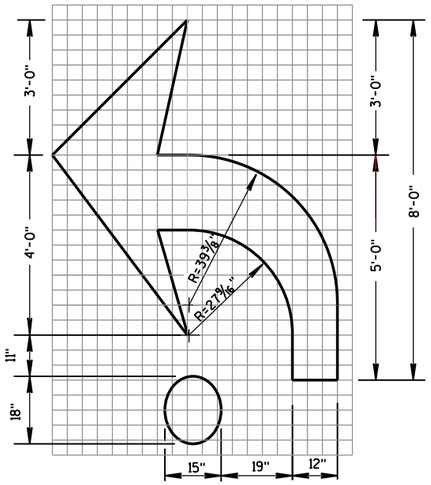
S.D.D. 15 C 7-13c

6

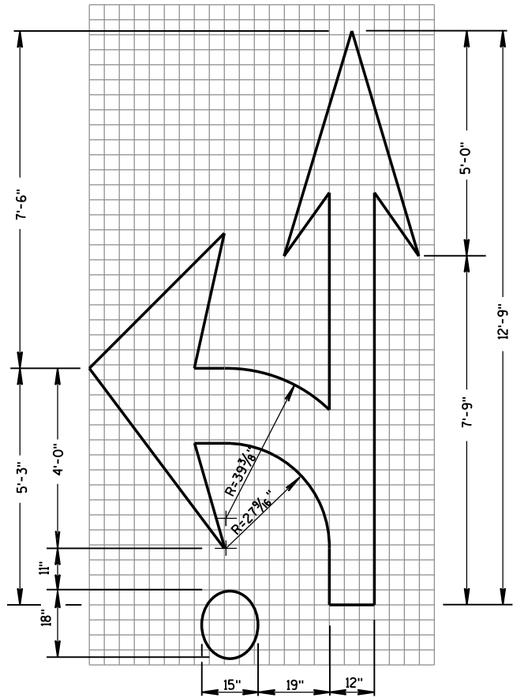
S.D.D. 15 C 7-13c

GENERAL NOTES

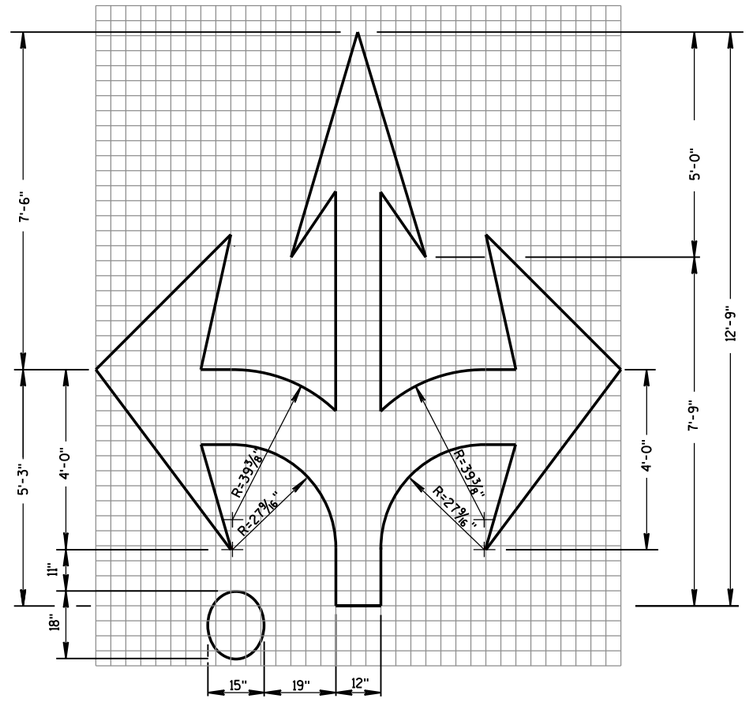
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



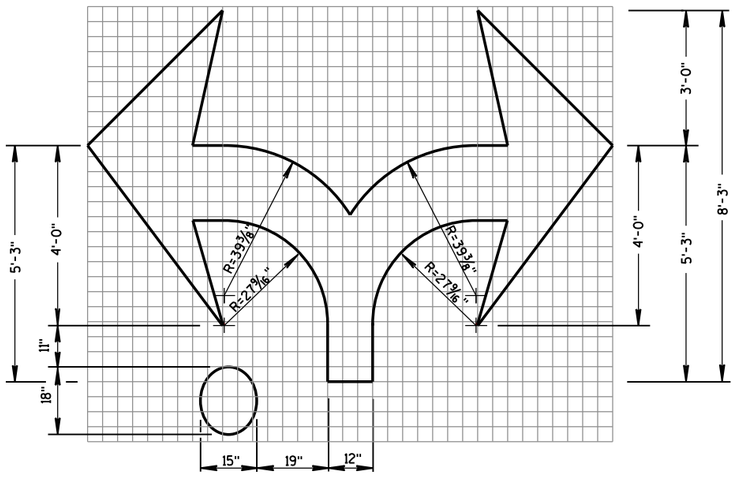
TYPE 2R



TYPE 3R



TYPE 6R



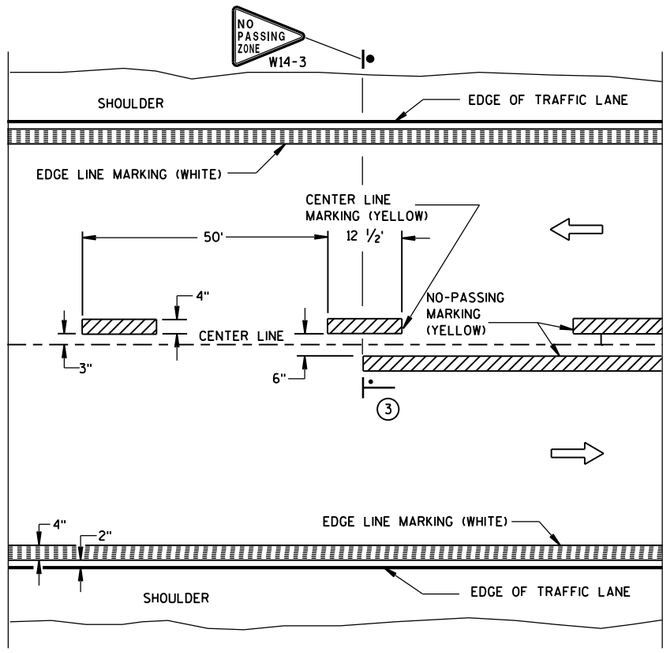
TYPE 7R

ROUNDABOUT ARROWS

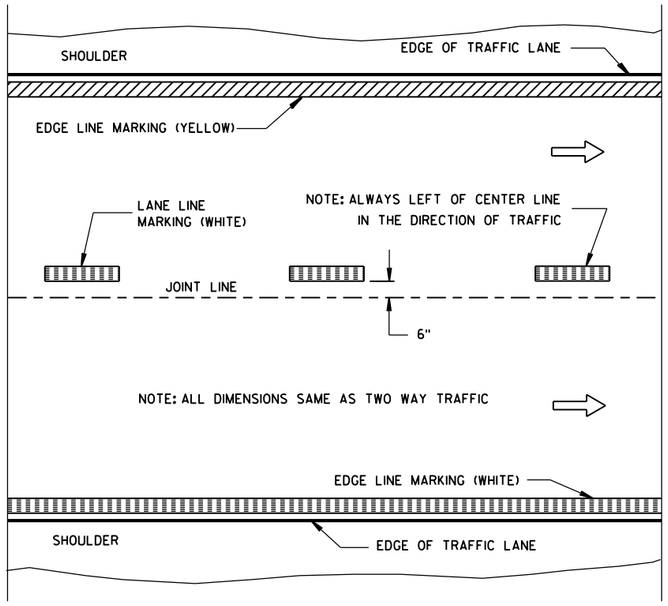
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/18/2016 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

6
S.D.D. 15 C 7-13d

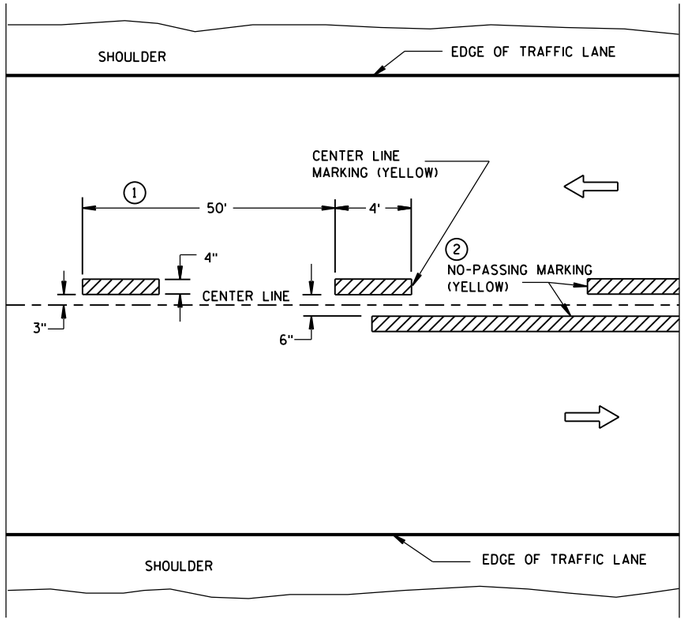


TWO WAY TRAFFIC

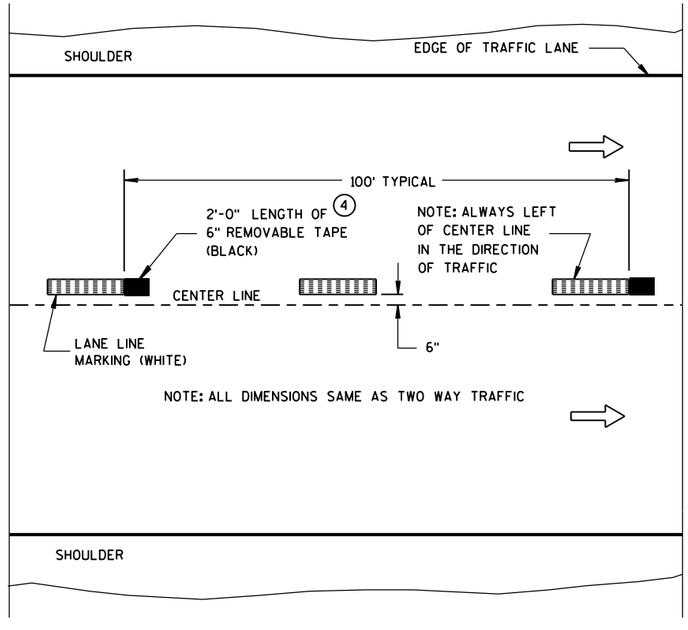


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

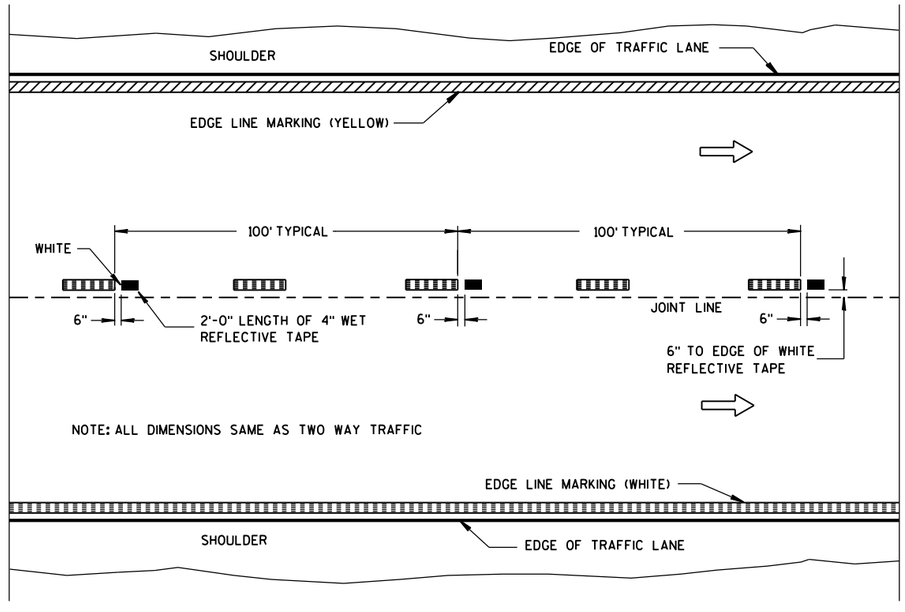
GENERAL NOTES

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

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

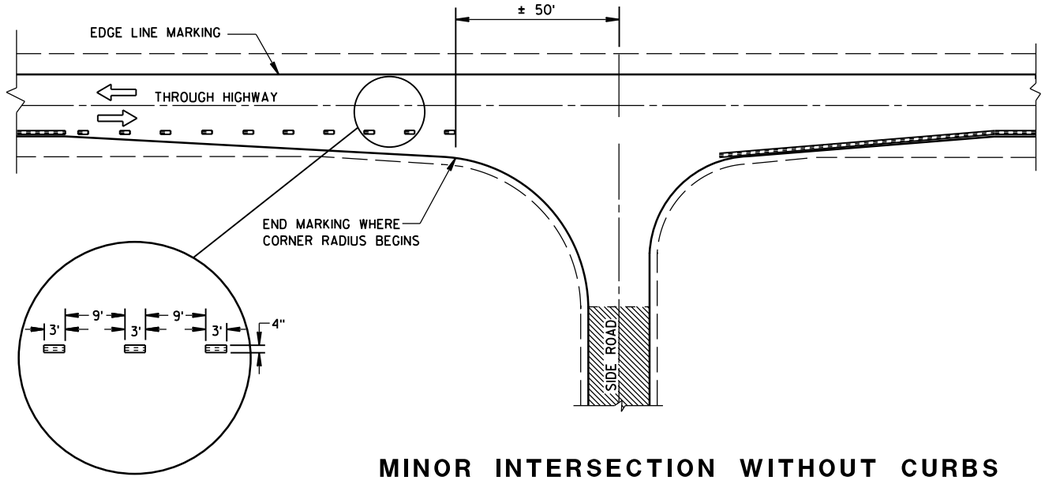
APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E
FHWA

6

S.D.D. 15 C 8-16a

6

S.D.D. 15 C 8-16a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

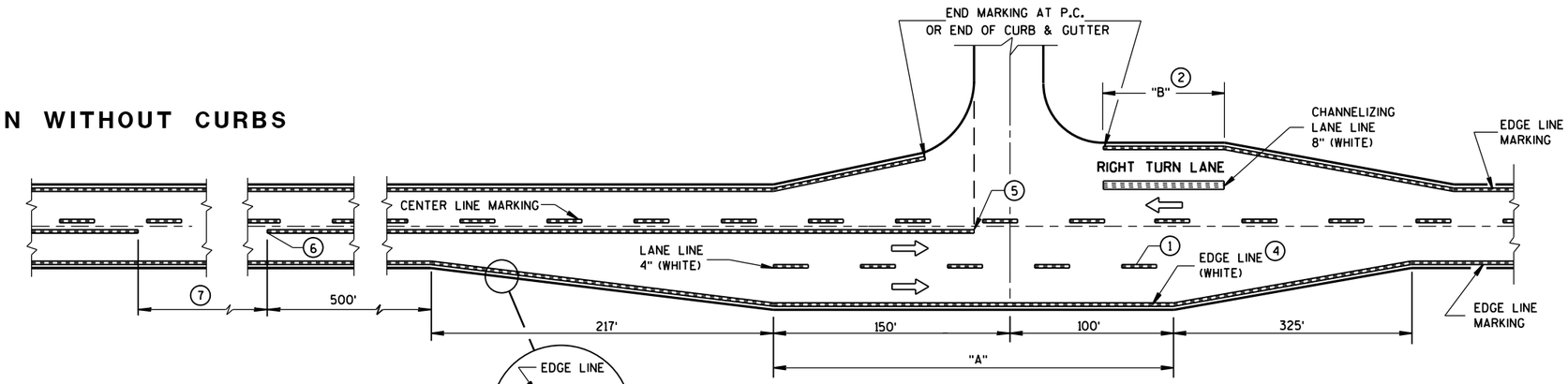
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

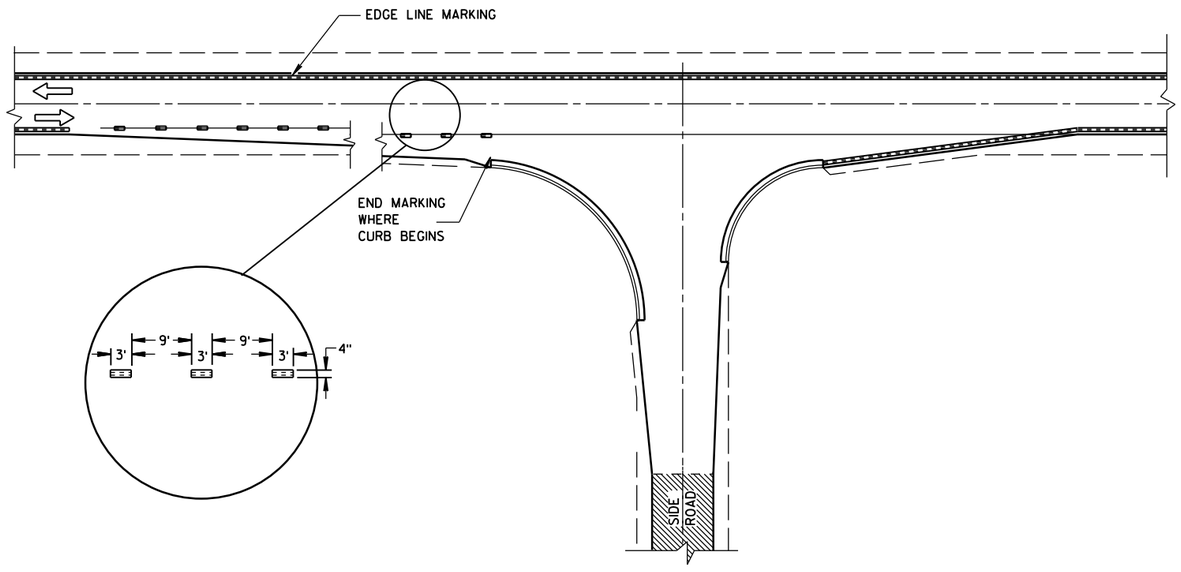
(7)

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



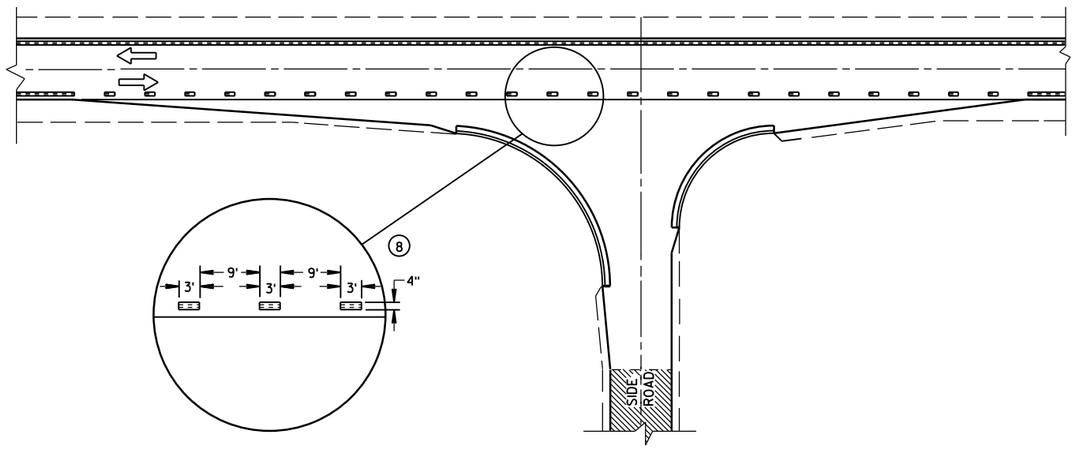
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

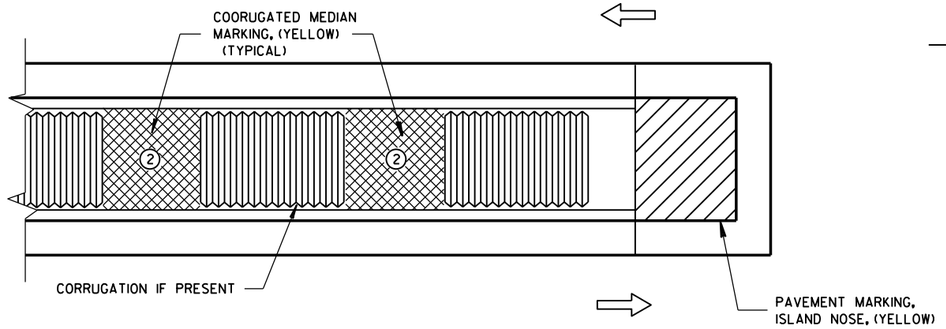
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 380

6

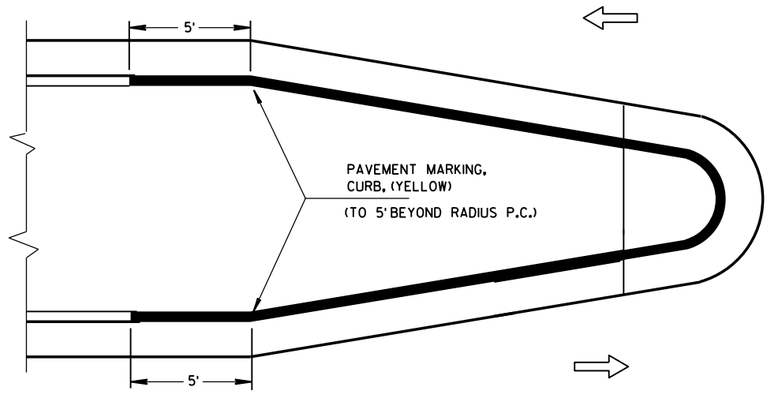
S.D.D. 15 C 8-16b

6

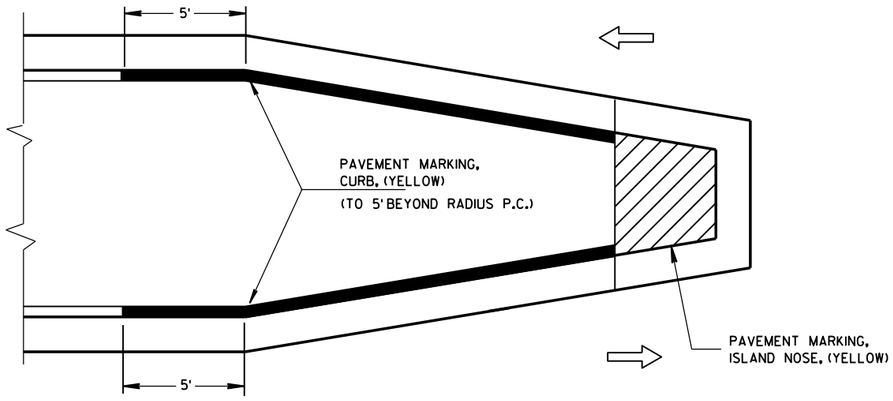
S.D.D. 15 C 8-16b



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

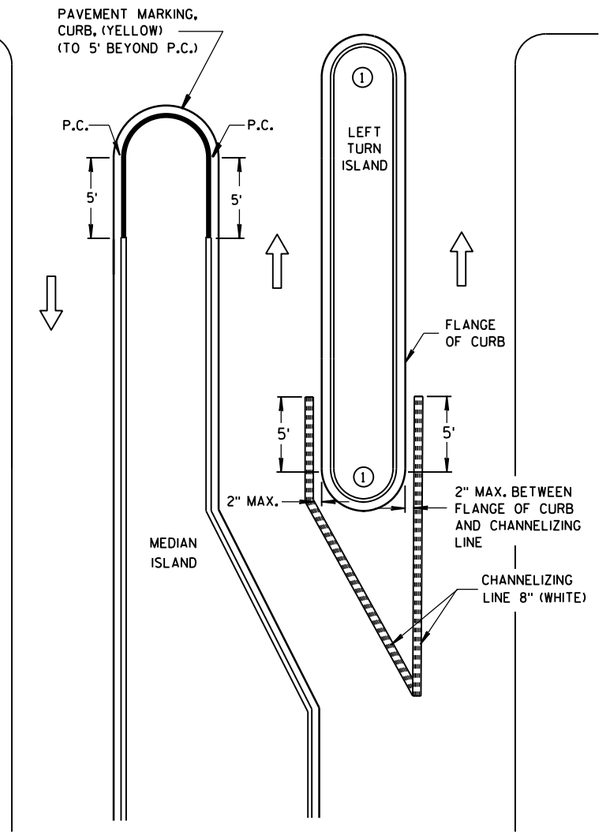


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

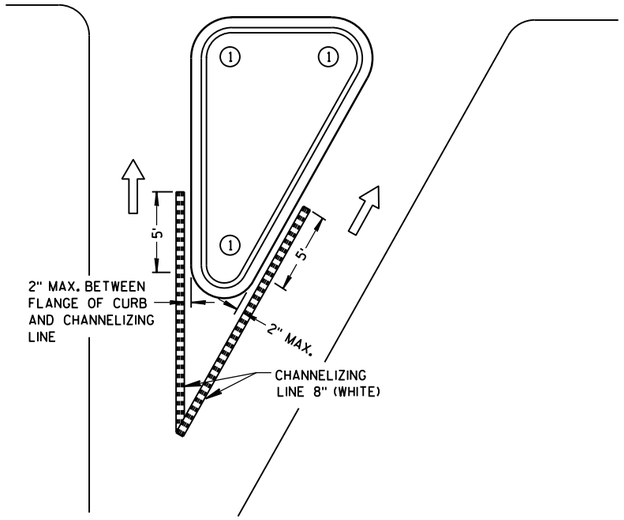


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 C 8-16f

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S.D.D. 15 C 8-16f

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

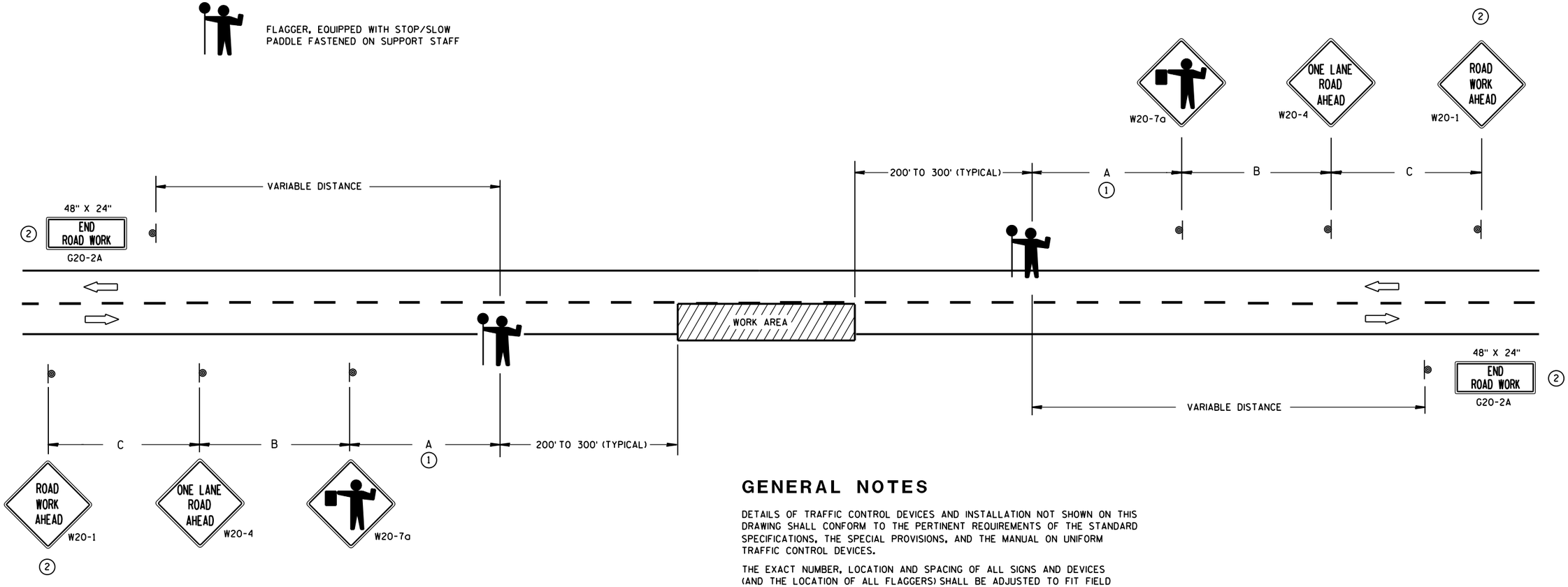
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

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

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

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

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

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

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

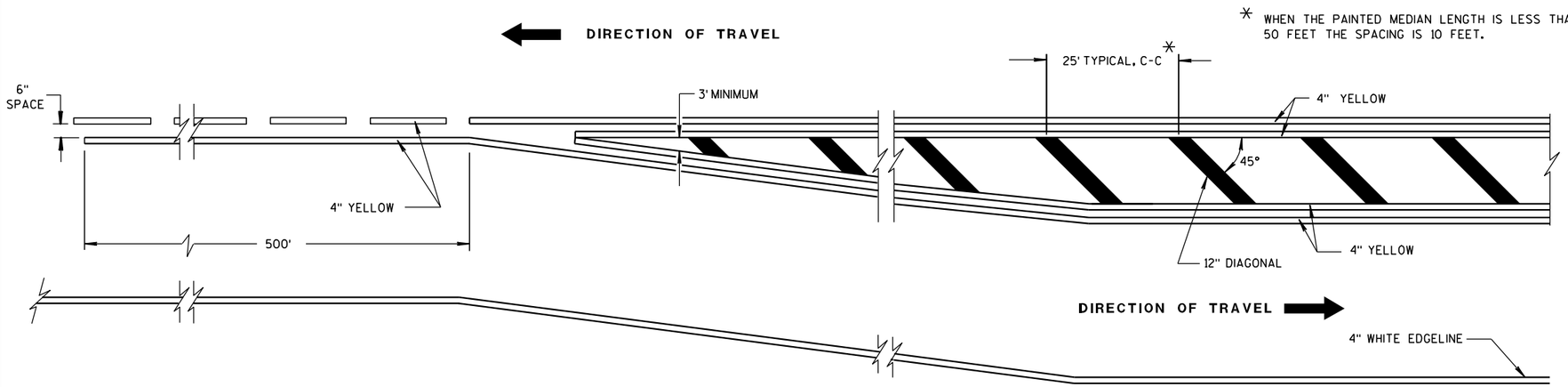
APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 12-4

6

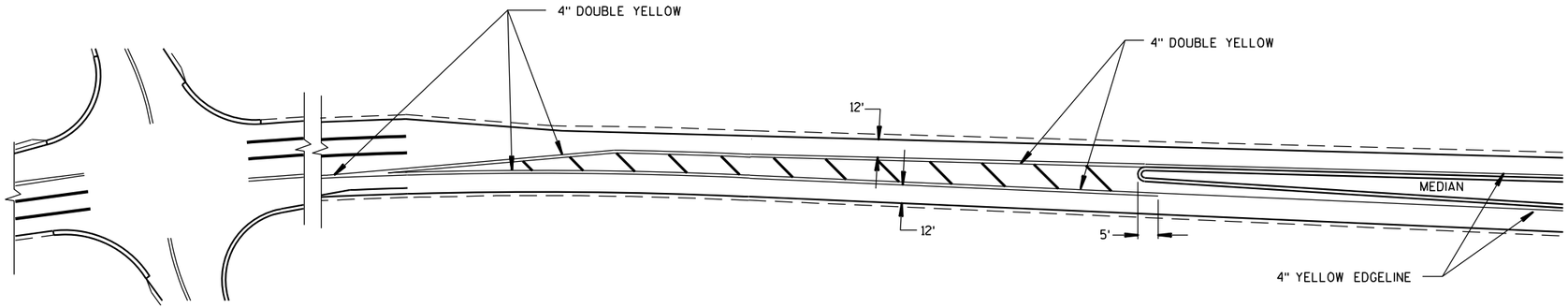
S.D.D. 15 C 12-4



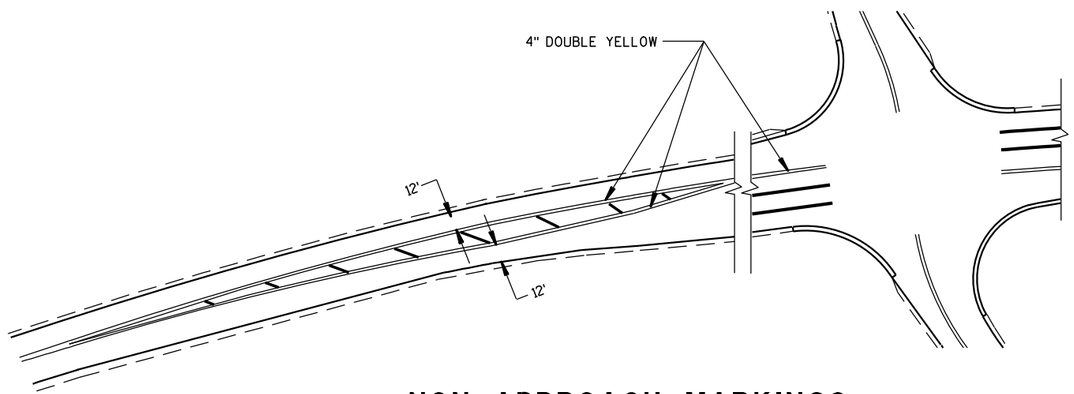
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER
FHWA	383 IGN

6

S.D.D. 15 C 18-3

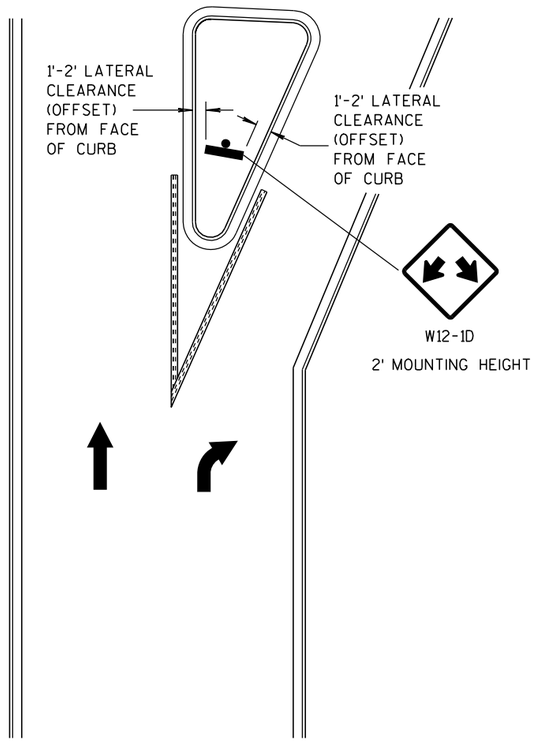
6

S.D.D. 15 C 18-3

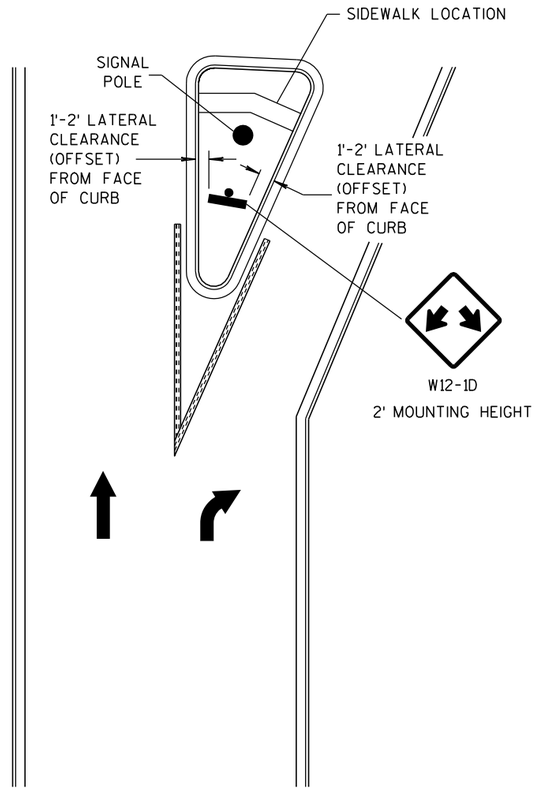
GENERAL NOTE

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

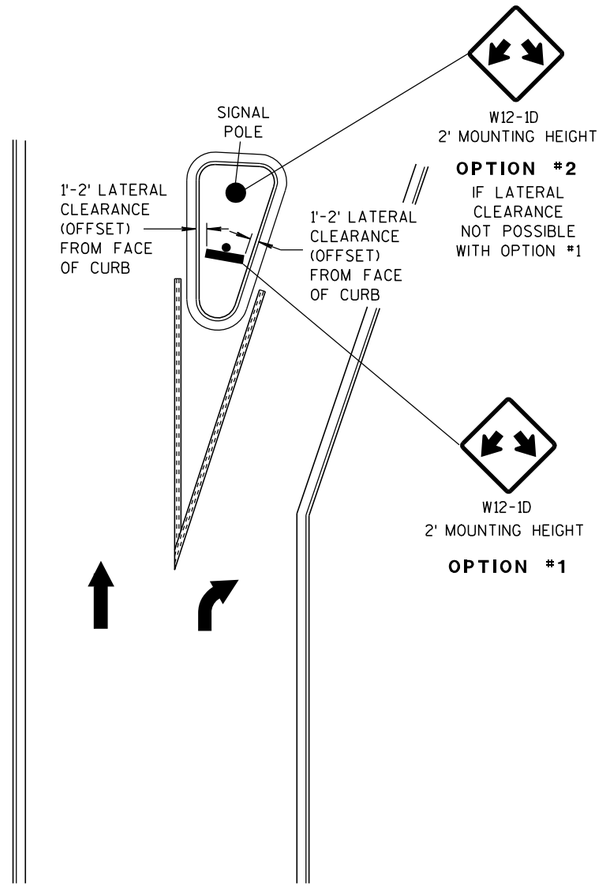
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.



LARGE RIGHT TURN ISLAND



LARGE RIGHT TURN ISLAND
WITH SIGNAL POLE



SMALL RIGHT TURN ISLAND

DOUBLE ARROW WARNING SIGN PLACEMENT

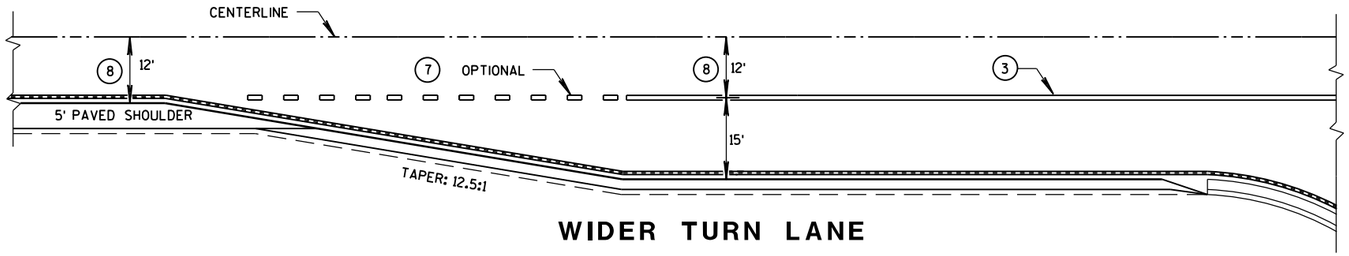
DOUBLE ARROW WARNING SIGN PLACEMENT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
10-22-08 DATE	/S/ Thomas N. Nothdurft STATE TRAFFIC ENGINEER
FHWA	384 IGN

6

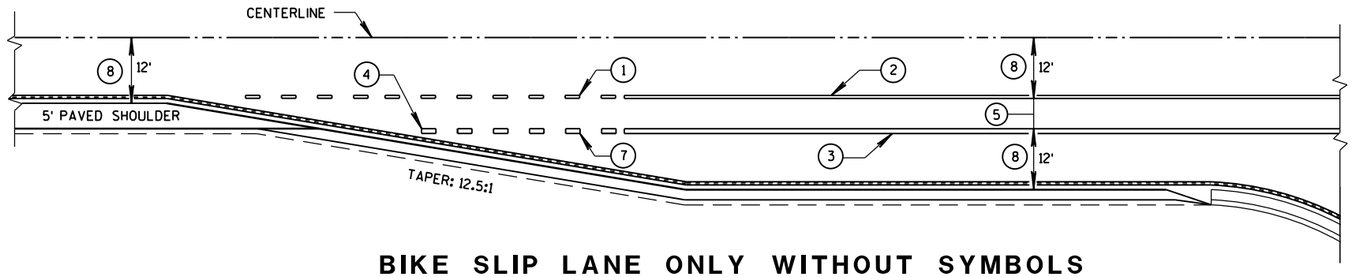
S.D.D. 15 C 27-1

6

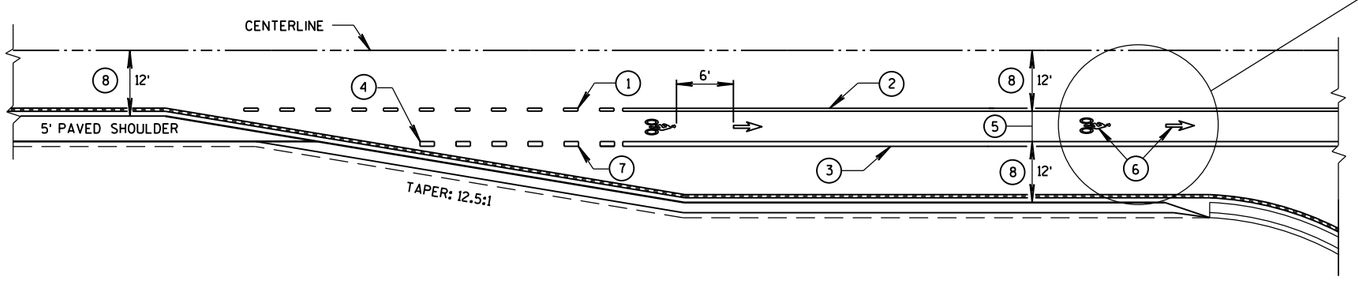
S.D.D. 15 C 27-1



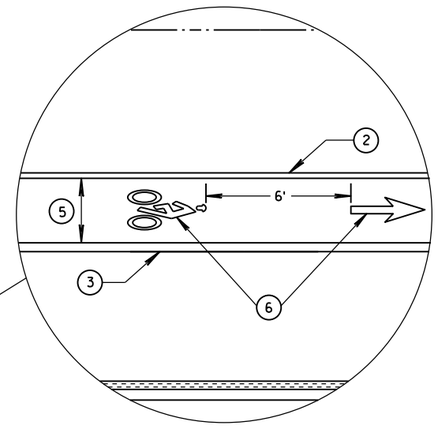
WIDER TURN LANE



BIKE SLIP LANE ONLY WITHOUT SYMBOLS



BIKE LANE WITH SYMBOLS



GENERAL NOTES

1. 3' LINE, 9' GAP - 4-INCH WIDE, WHITE.
2. 4-INCH, WHITE.
3. 8-INCH, WHITE.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. BIKE ACCOMMODATION FOR CONCRETE PAVEMENT IS 5' WIDE. BIKE ACCOMMODATION FOR ASPHALT PAVEMENT IS A MINIMUM OF 4', 5' AT ≥ 45 MPH.
6. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
7. 3' LINE, 9' GAP - 8-INCH WIDE, WHITE.
8. REFER TO CONTRACT PLANS.

6

S.D.D. 15 C 29-3a

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

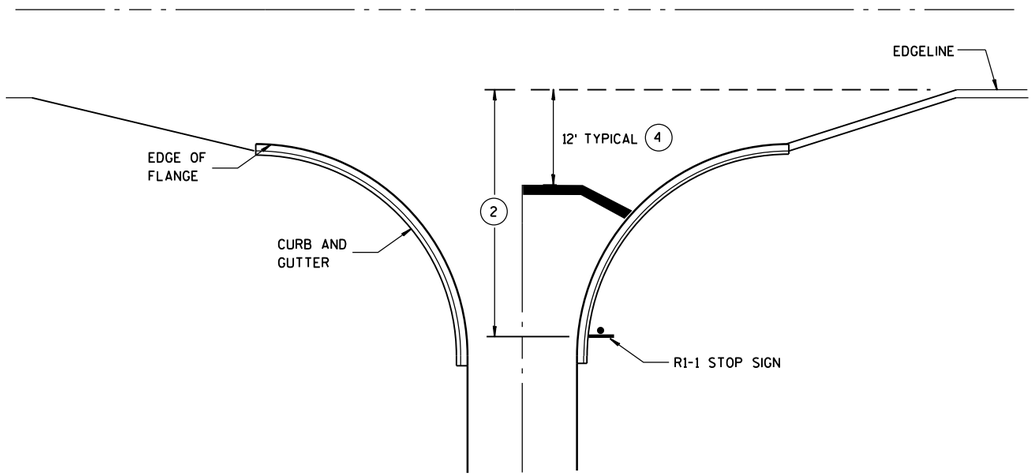
4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

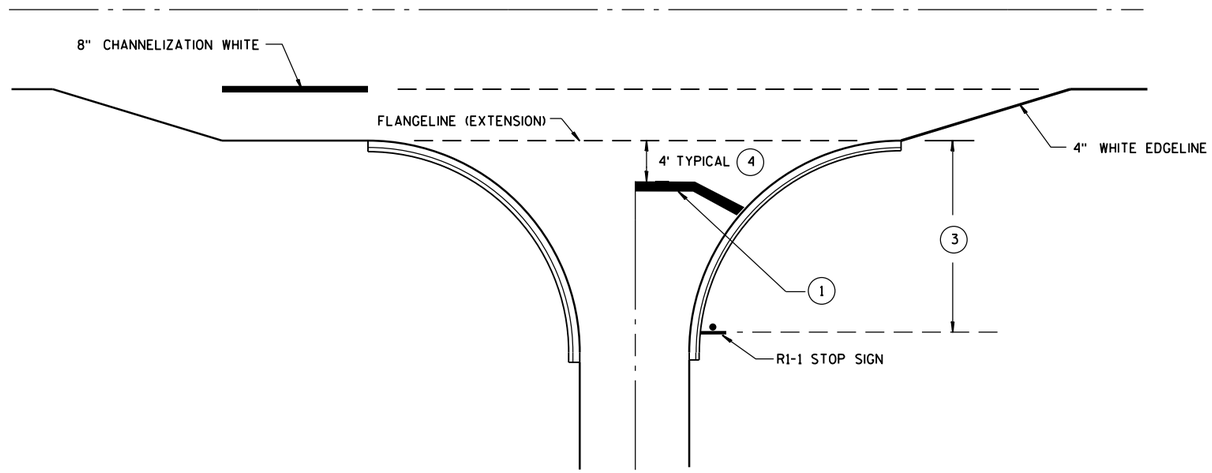
FHWA

6

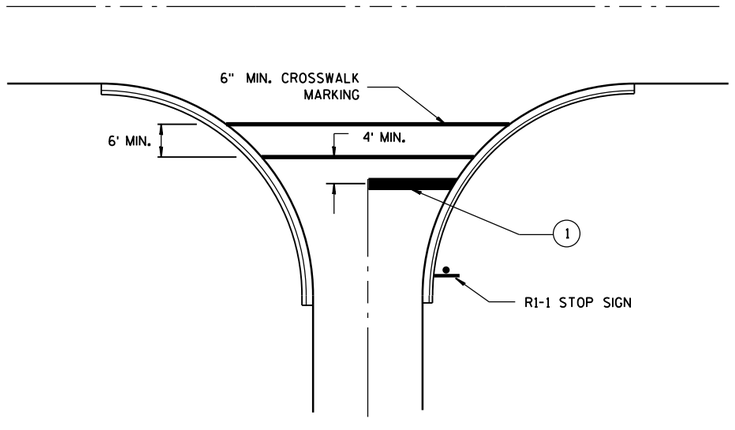
S.D.D. 15 C 29-3a



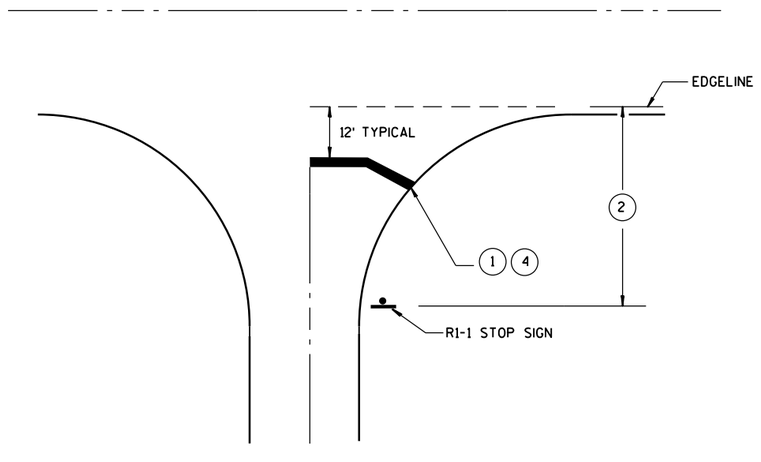
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

(1) 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

(2) IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.

(3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.

(4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

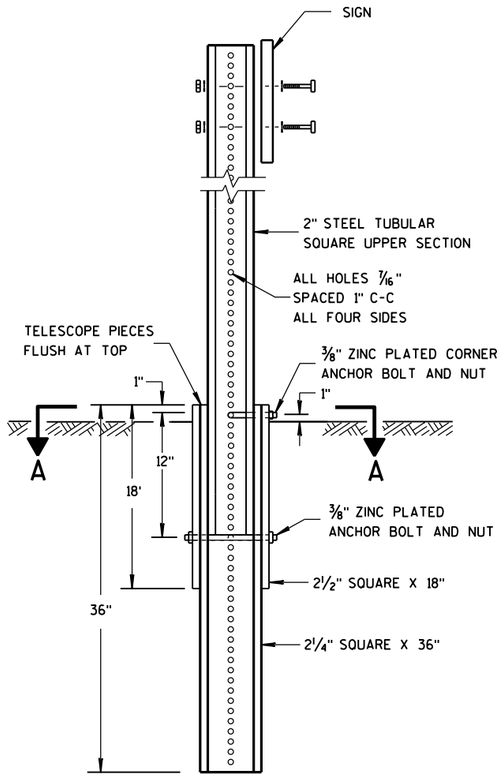
4-18-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR 386 NEER

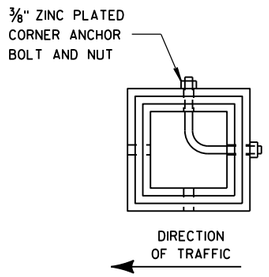
FHWA

6

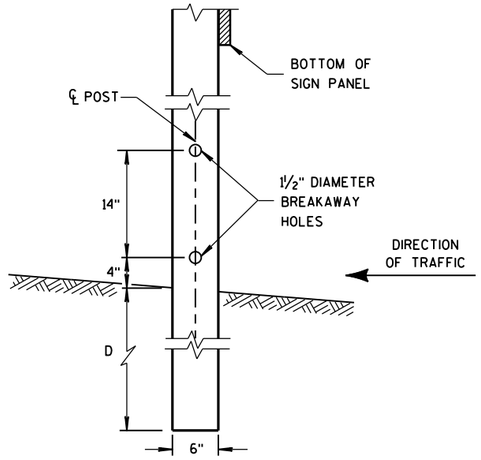
S.D.D. 15 C 33-2



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



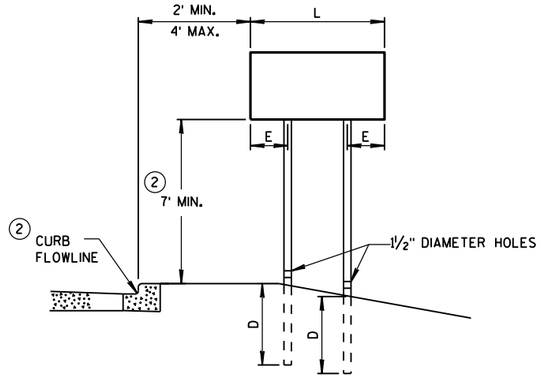
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

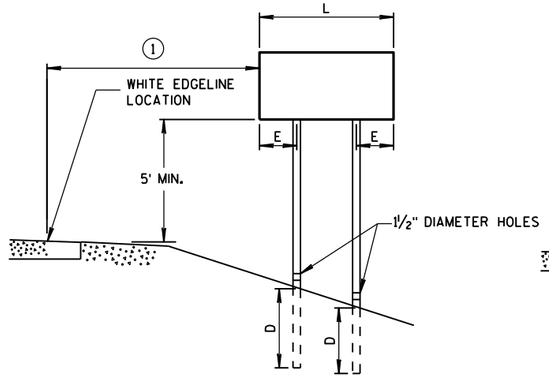
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

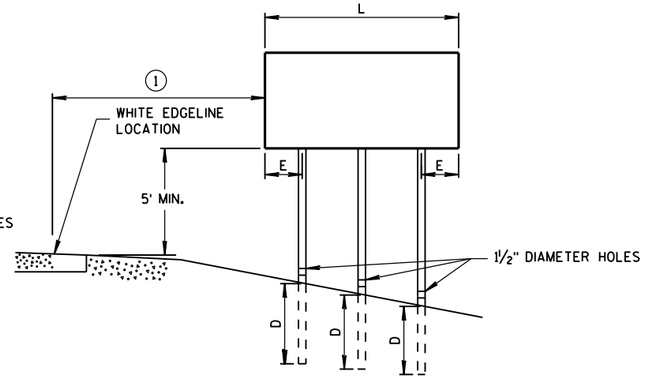
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK 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

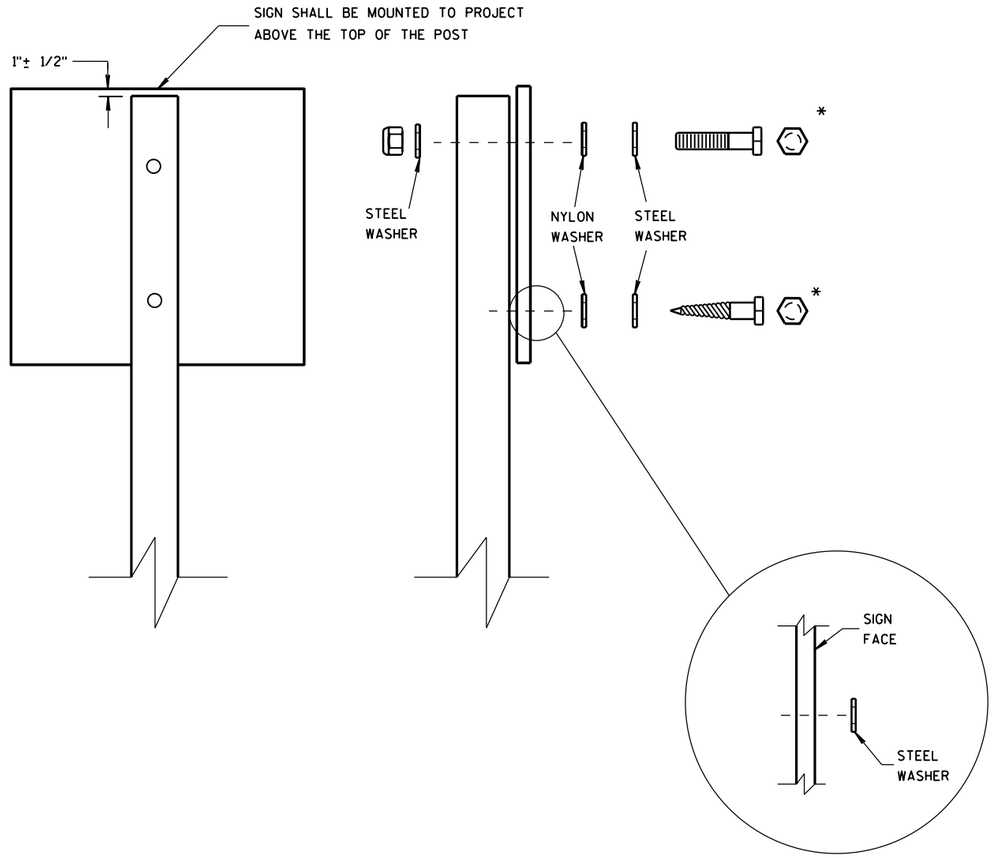
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPO

6

S.D.D. 15 D 38-1a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

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

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

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

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

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

6

6

S.D.D. 15 D 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

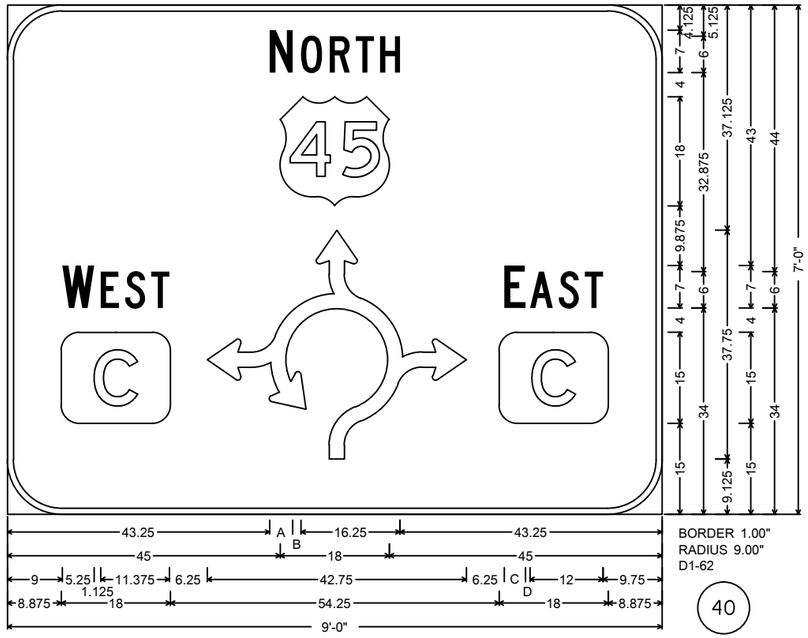
APPROVED

Feb. 2015 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

SIGN

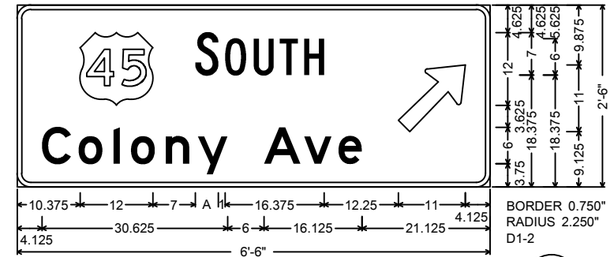


BORDER 1.00"
RADIUS 9.00"
D1-62

40

TYPE II SIGN

A = 3.875
B = 1.375
C = 3.5
D = 0.75

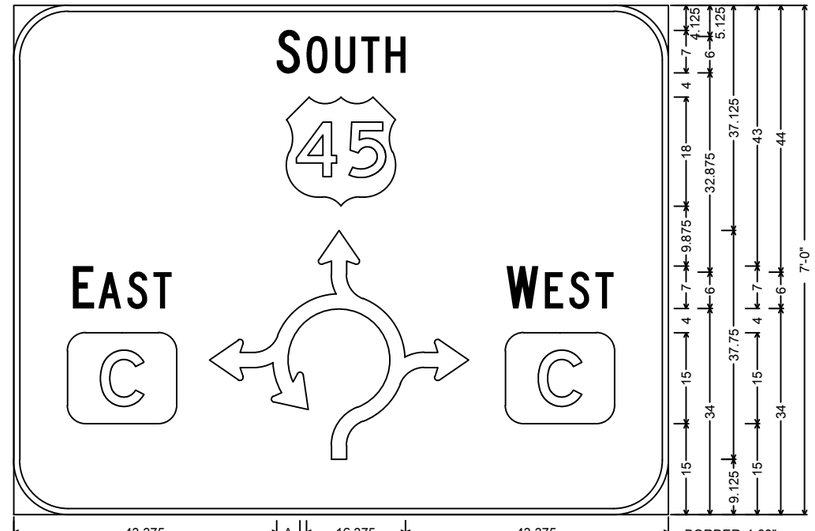


BORDER 0.750"
RADIUS 2.250"
D1-2

54

TYPE II SIGN

A = 3.875

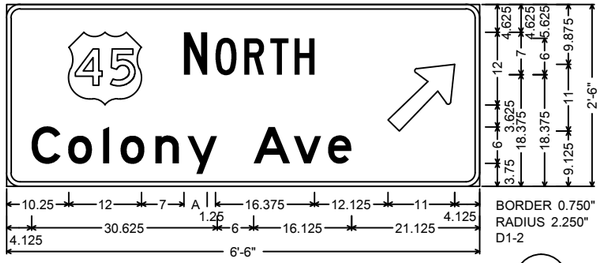


BORDER 1.00"
RADIUS 9.00"
D1-62

116

TYPE II SIGN

A = 3.875
B = 3.5
C = 0.75



BORDER 0.750"
RADIUS 2.250"
D1-2

80

TYPE II SIGN

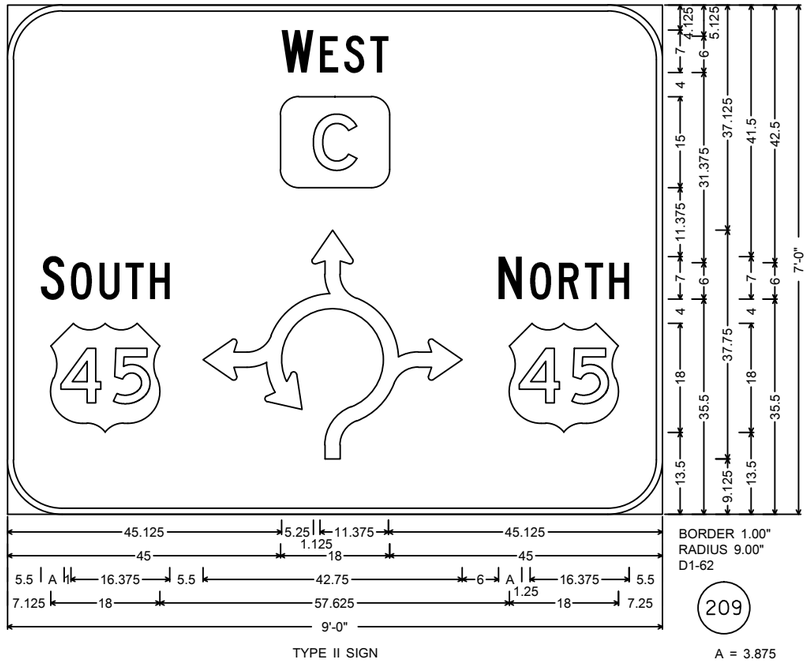
A = 3.875

GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE II".
3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE "TYPE SH REFLECTIVE SHEETING".
4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A GREEN BACKGROUND AND WHITE MESSAGE.
5. TYPE II SIGNS ALL UPPERCASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E". ALL LOWERCASE MESSAGE WITH AN INITIAL UPPERCASE LETTER SHALL BE "SERIES E".
6. TYPE I SIGNS ALL UPPERCASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E MODIFIED". ALL LOWER CASE MESSAGE WITH AN INITIAL UPPERCASE LETTER SHALL BE "SERIES E MODIFIED". ALL CAP WORDS ARE "SERIES E".
7. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE "TYPE A" OR "TYPE C" ARROWS AS SHOWN. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS.
8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.
9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.
10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE "SERIES E" PER PLATES A11-7 AND A11-10.
11. DO NOT SCALE.

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	SIGNING DETAIL - TYPE II SIGNS	SHEET 389	E

FILE NAME : N:\PDS\C3D\CAD\24300600\SIGN\070101_MS.DWG
LAYOUT NAME - 070101_MS
PLOT DATE : 1/10/2017 6:28 AM PLOT BY : DODGE, BRIAN M PLOT NAME :
WISDOT/CADDS SHEET

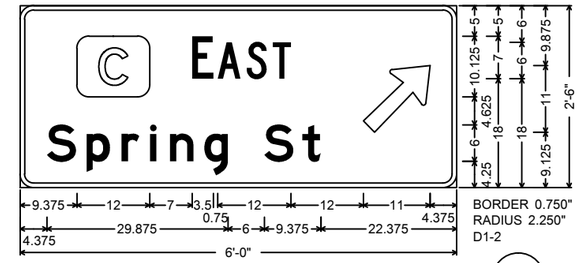


TYPE II SIGN

BORDER 1.00"
RADIUS 9.00"
D1-62

209

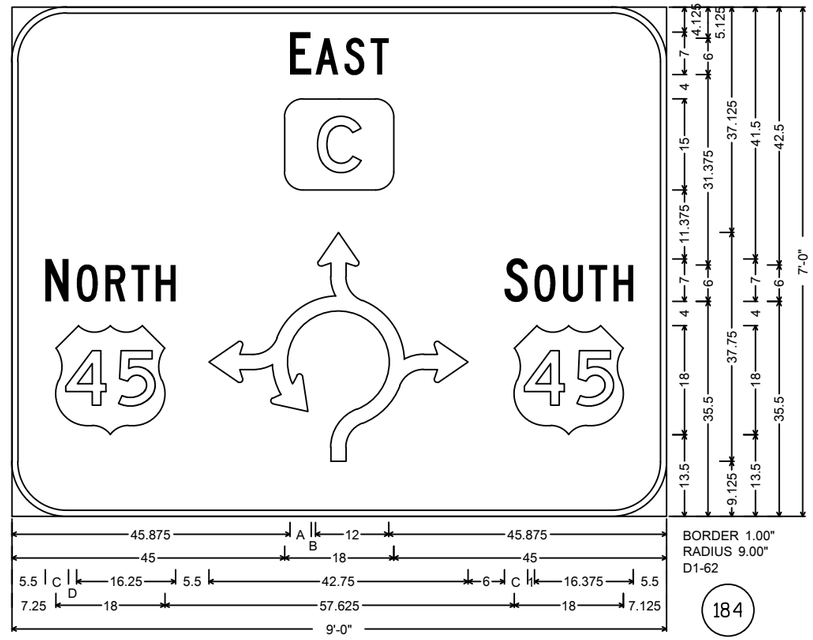
A = 3.875



TYPE II SIGN

BORDER 0.750"
RADIUS 2.250"
D1-2

89

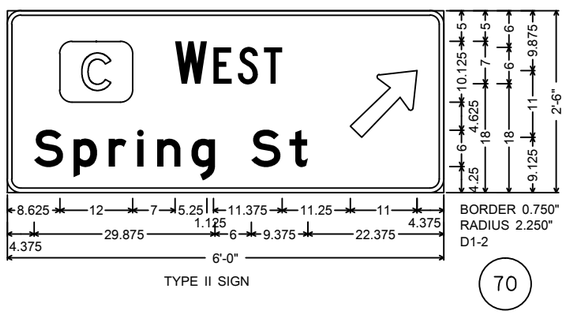


TYPE II SIGN

BORDER 1.00"
RADIUS 9.00"
D1-62

184

A = 3.5
B = 0.75
C = 3.875
D = 1.375



TYPE II SIGN

BORDER 0.750"
RADIUS 2.250"
D1-2

70

GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE II".
3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE "TYPE SH REFLECTIVE SHEETING".
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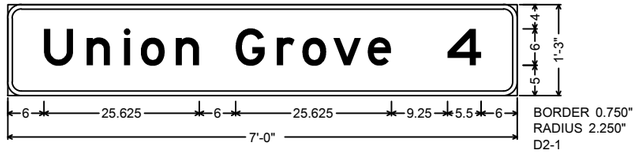
7. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE "TYPE A" OR "TYPE C" ARROWS AS SHOWN. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS.
8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.
9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.
10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE "SERIES E" PER PLATES A11-7 AND A11-10.
11. DO NOT SCALE.

FILE NAME : N:\PDS\C3D\CAD\24300600\SIGN\070101_MS.DWG
LAYOUT NAME - 070102_MS

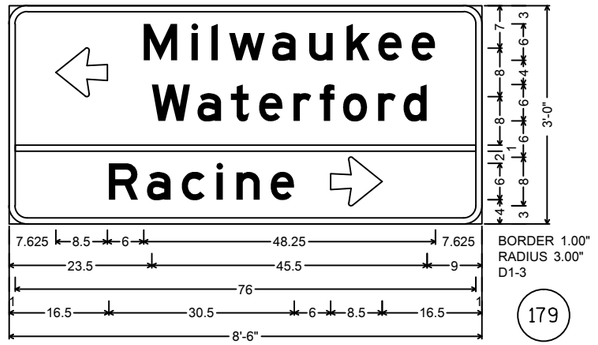
PLOT DATE : 1/10/2017 6:29 AM PLOT BY : DODGE, BRIAN M PLOT NAME :

WISDOT/CADDS SHEET



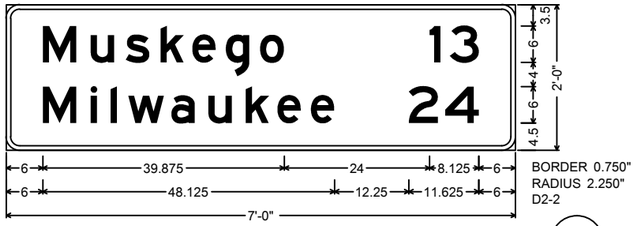
TYPE II SIGN

176



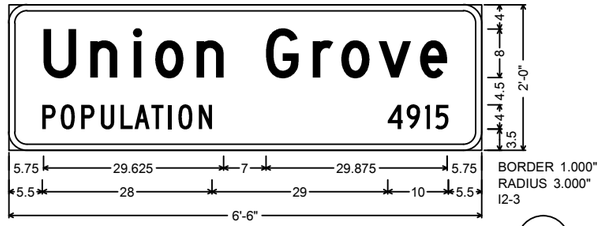
TYPE II SIGN

179



TYPE II SIGN

15



TYPE II SIGN

2

GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
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3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE "TYPE SH REFLECTIVE SHEETING".
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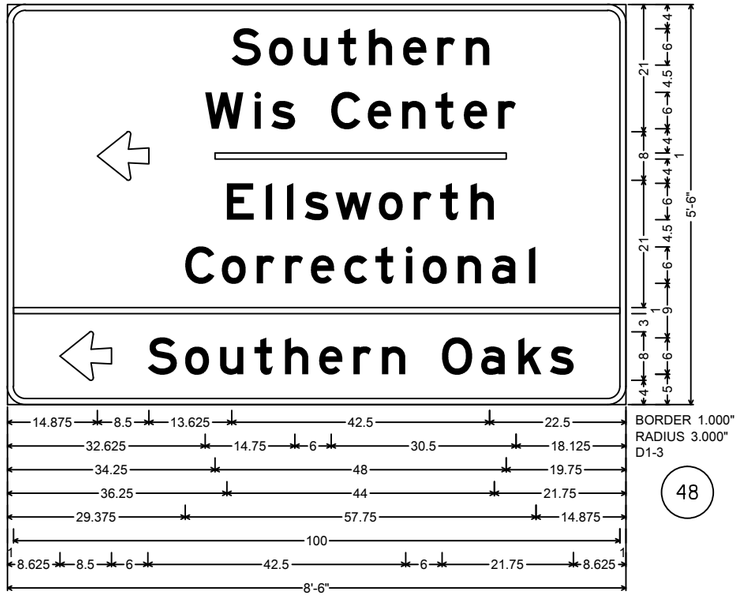
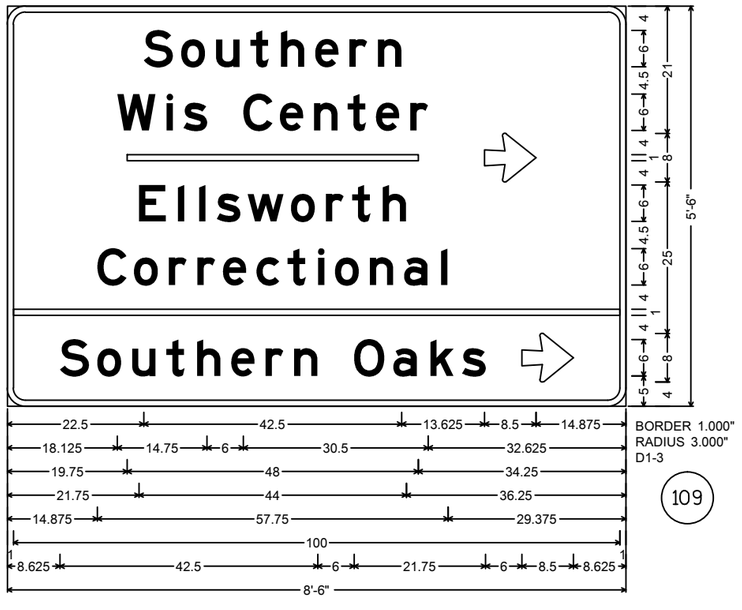
10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE "SERIES E" PER PLATES A11-7 AND A11-10.
11. DO NOT SCALE.

7

7



TYPE II SIGN



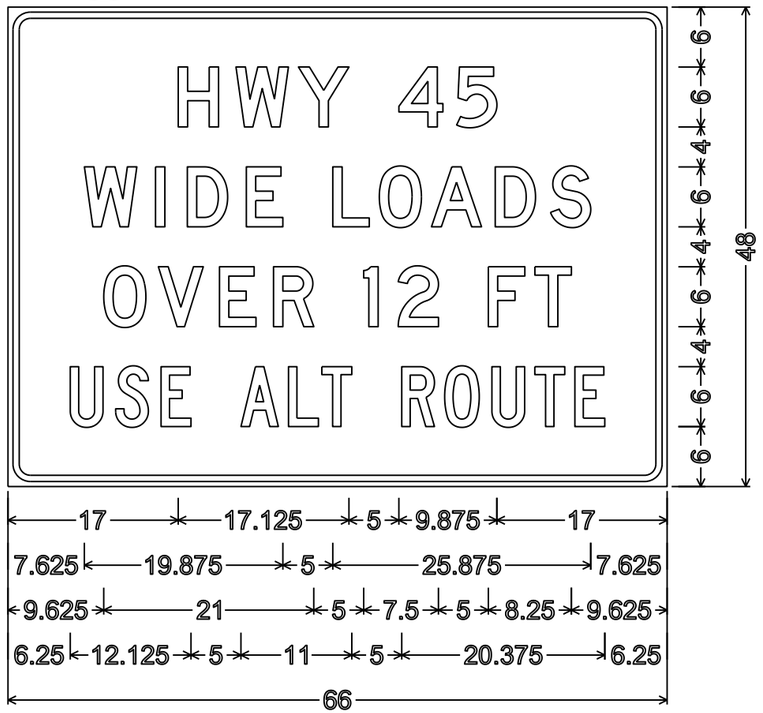
TYPE II SIGN

GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE II".
3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE "TYPE SH REFLECTIVE SHEETING".
4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A GREEN BACKGROUND AND WHITE MESSAGE.
5. TYPE II SIGNS ALL UPPERCASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E". ALL LOWERCASE MESSAGE WITH AN INITIAL UPPERCASE LETTER SHALL BE "SERIES E".
6. TYPE I SIGNS ALL UPPERCASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E MODIFIED". ALL LOWER CASE MESSAGE WITH AN INITIAL UPPERCASE LETTER SHALL BE "SERIES E MODIFIED". ALL CAP WORDS ARE "SERIES E".
7. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE "TYPE A" OR "TYPE C" ARROWS AS SHOWN. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS.
8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.
9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.
10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE "SERIES E" PER PLATES A11-7 AND A11-10.
11. DO NOT SCALE.

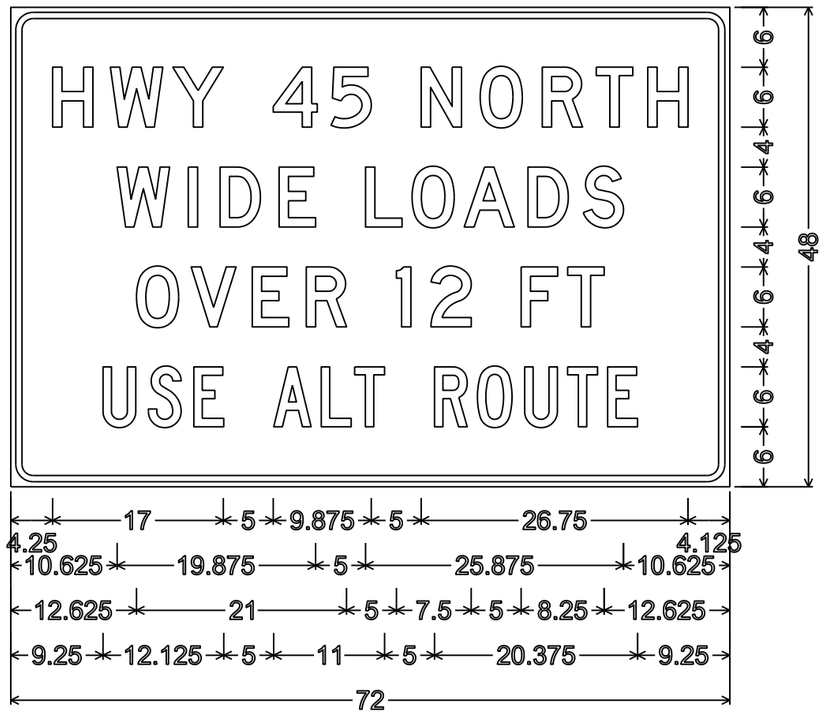
7

100



2.250" Radius, 0.625" Border, 0.500" Indent
"USE" C; "ALT" C; "ROUTE" C

103 104

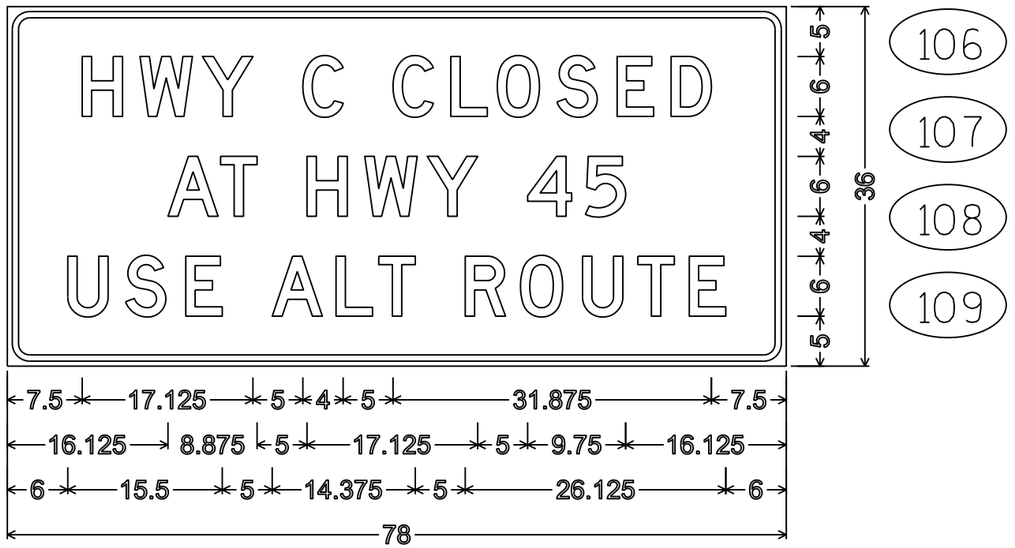


2.250" Radius, 0.625" Border, 0.500" Indent
"USE" C; "ALT" C; "ROUTE" C

NOTES

1. Signs are Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D except as noted

2.250" Radius, 0.625" Border, 0.500" Indent,
"XX-XX" C ; "TO" C; "XX-XX" C



106
107
108
109

2.250" Radius, 0.625" Border, 0.500" Indent

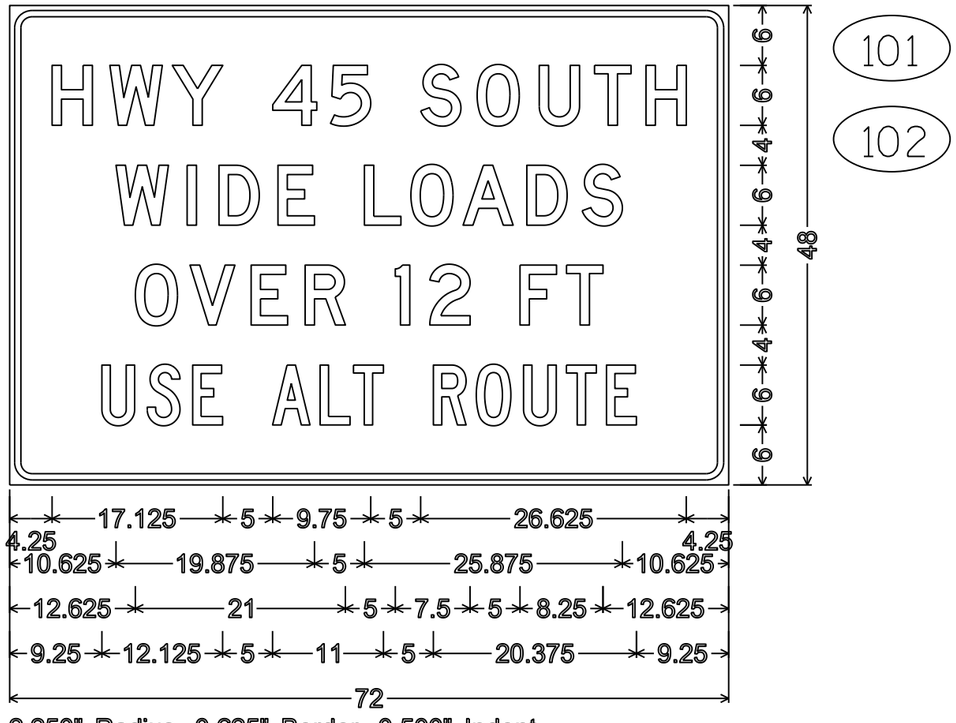
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	TEMPORARY SIGNING	SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_d2\2514go16.dgn PLOT DATE : 16-NOV-2016 17:50 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 15.168366:1.000000

NOTES

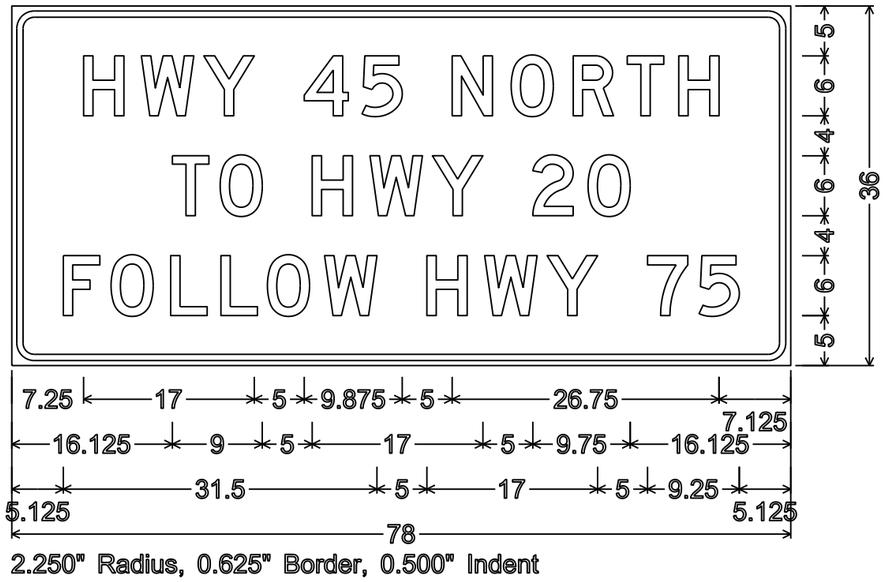
1. Signs are Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D except as noted

101
102



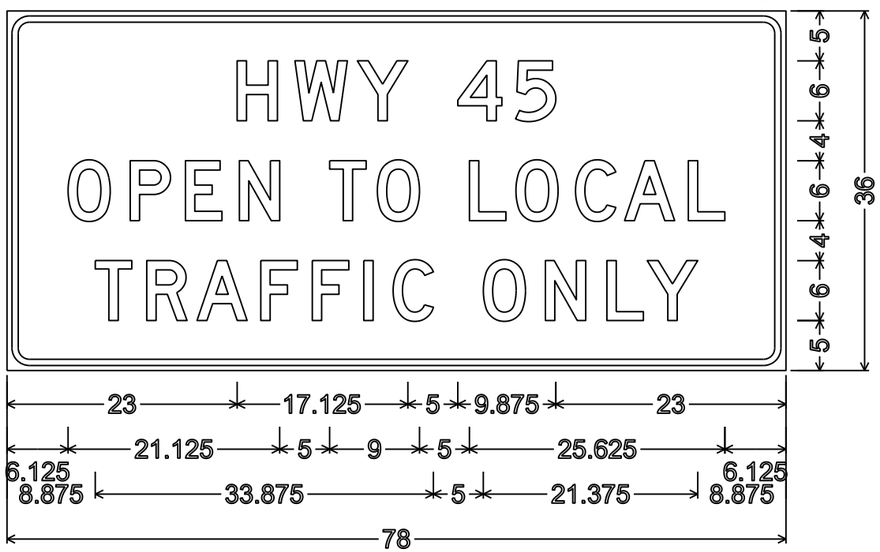
2.250" Radius, 0.625" Border, 0.500" Indent
"USE" C; "ALT" C; "ROUTE" C

105



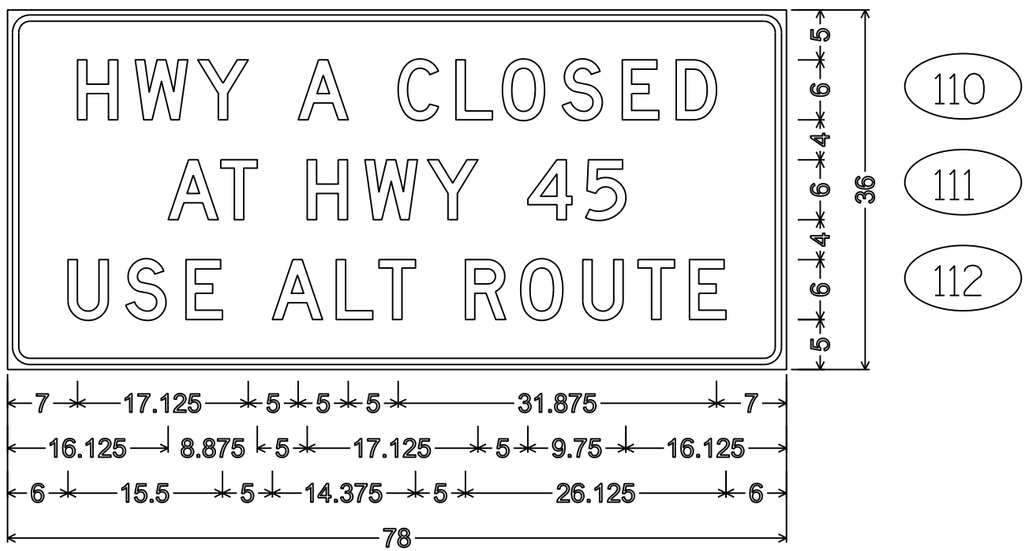
2.250" Radius, 0.625" Border, 0.500" Indent

113



2.250" Radius, 0.625" Border, 0.500" Indent

110
111
112



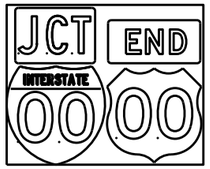
2.250" Radius, 0.625" Border, 0.500" Indent

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	TEMPORARY SIGNING	SHEET NO:	E

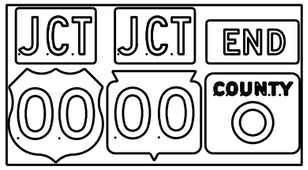
FILE NAME : C:\CAEfiles\Projects\tr_d2\2514op16.dgn PLOT DATE : 16-NOV-2016 17:51 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 15.168366:1.000000

TYPICAL ASSEMBLIES

J1-1

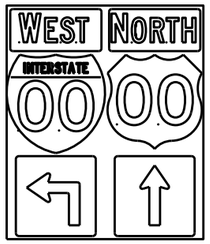


J1-2

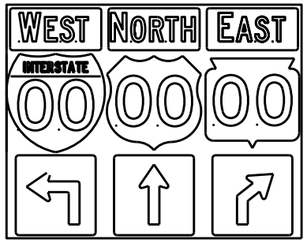


J1-3

J2-1



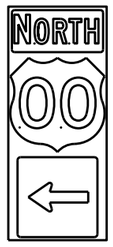
J2-2



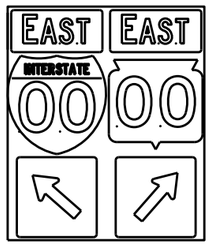
J2-3

JV

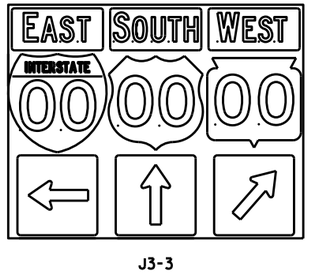
(Typical Vertical J-Assembly
See Note 10 and 11)



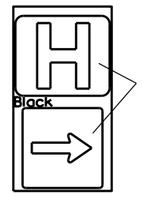
J3-1



J3-2

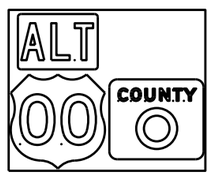


J3-3

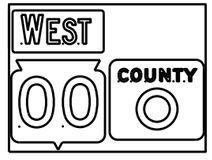


JH-1

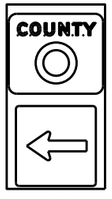
J4-1



J4-2



J4-2



J13-1

J12-1

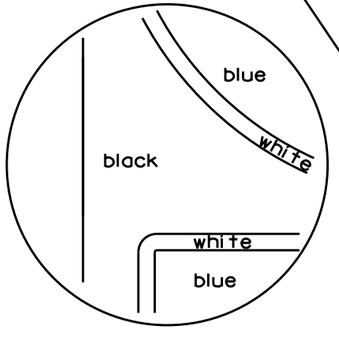
J32-1

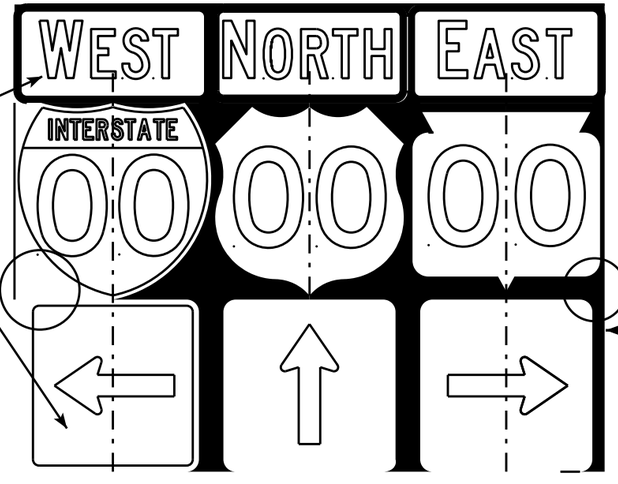
J33-1

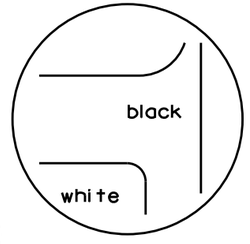
J23-1

J22-1

blue background
with interstate







black background

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

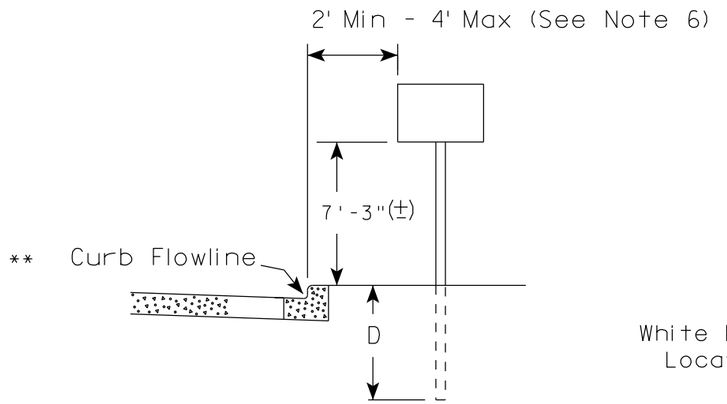
DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

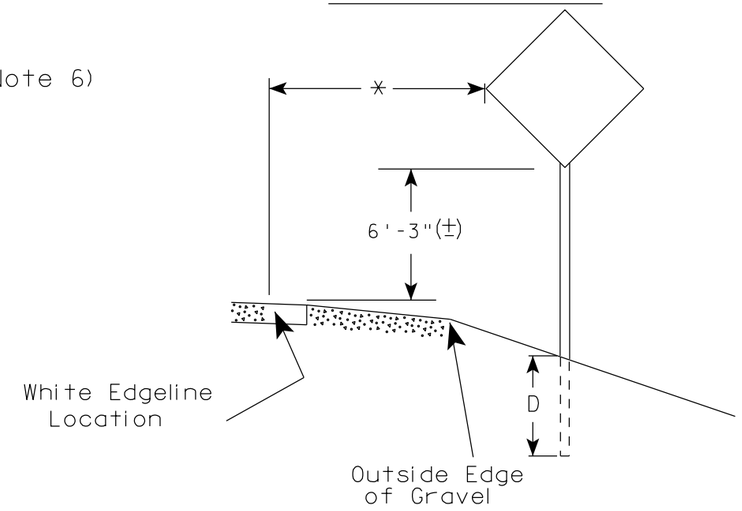
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

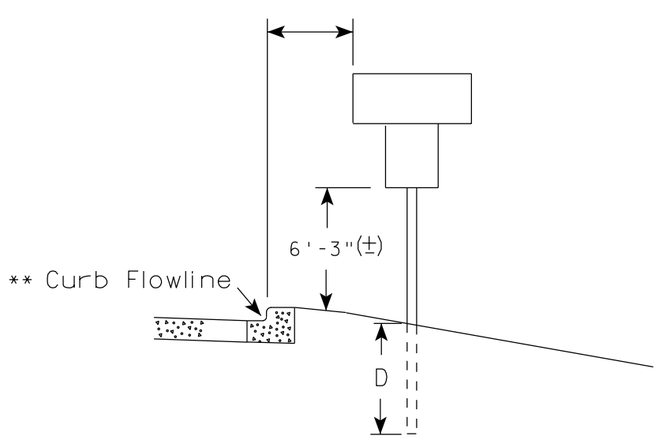
WISDOT/CADDS SHEET 42

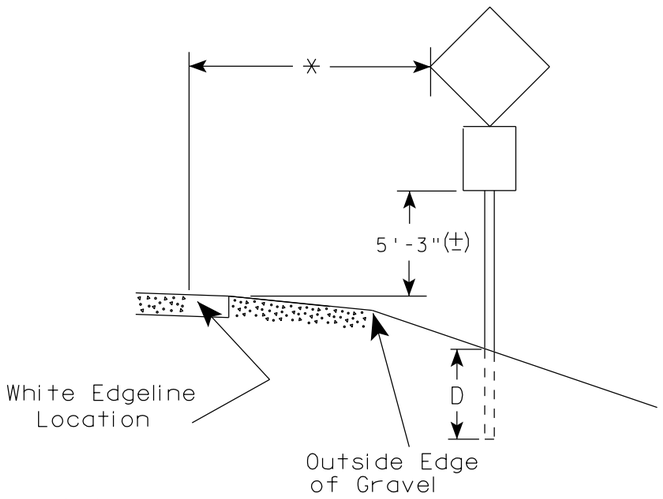
URBAN AREA



RURAL AREA (See Note 2)







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

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

POST EMBEDMENT DEPTH

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

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

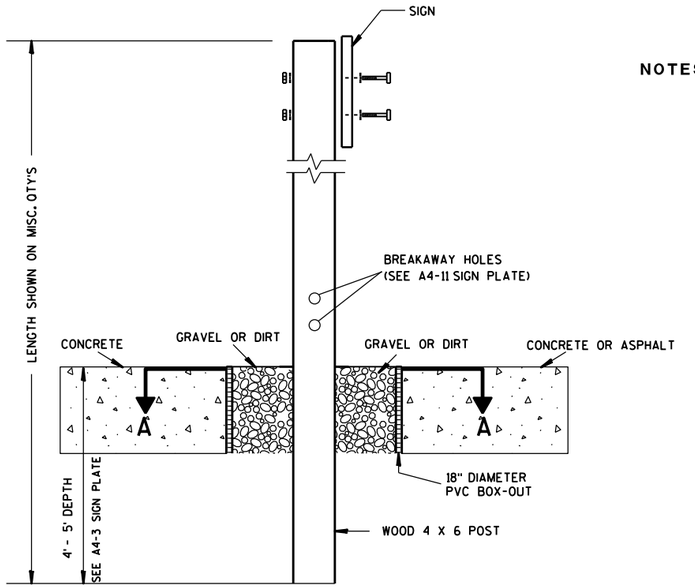
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

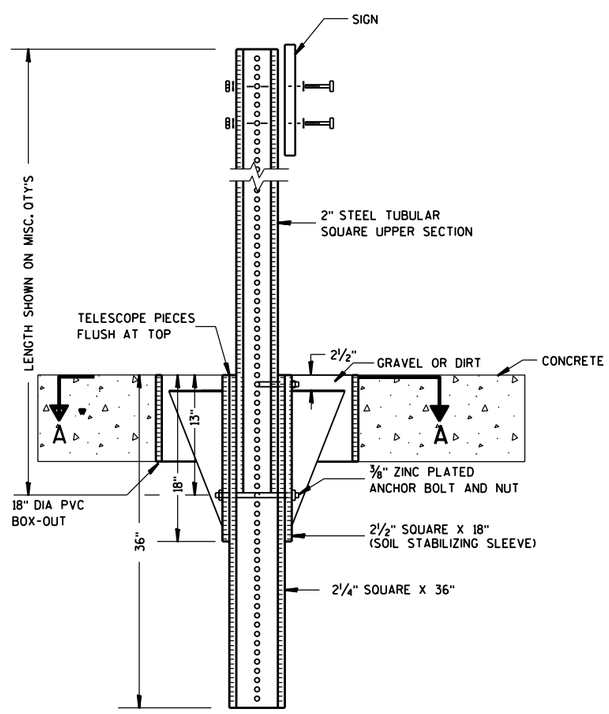
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

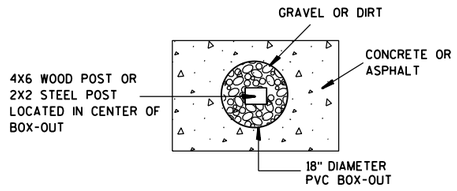
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

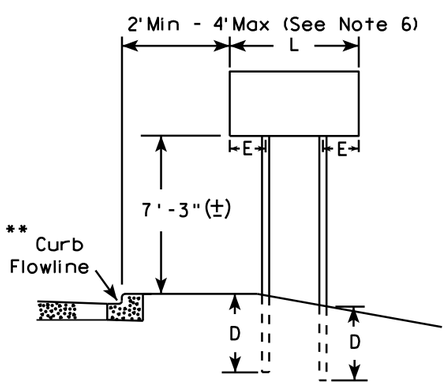
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

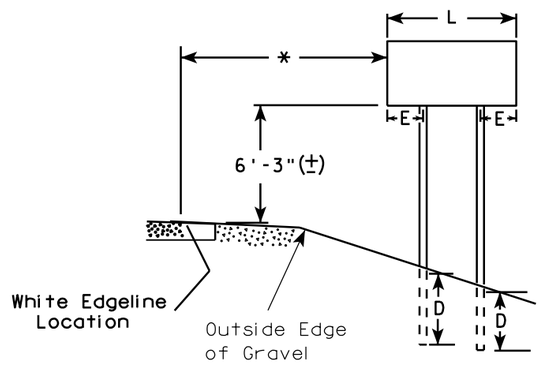
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

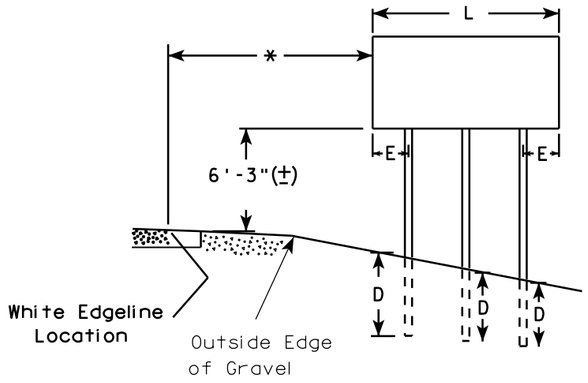
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

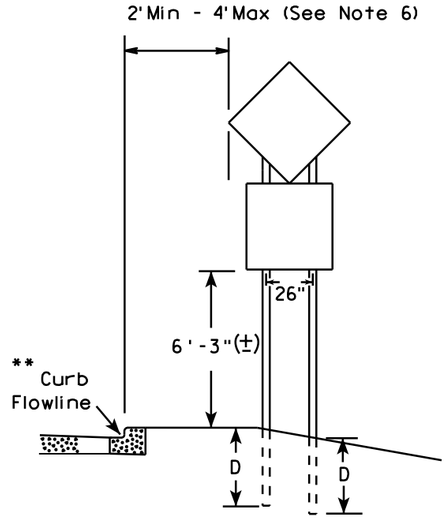
URBAN AREA



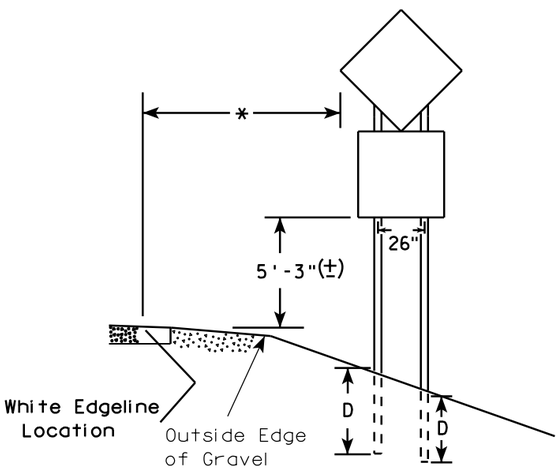
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

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

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

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

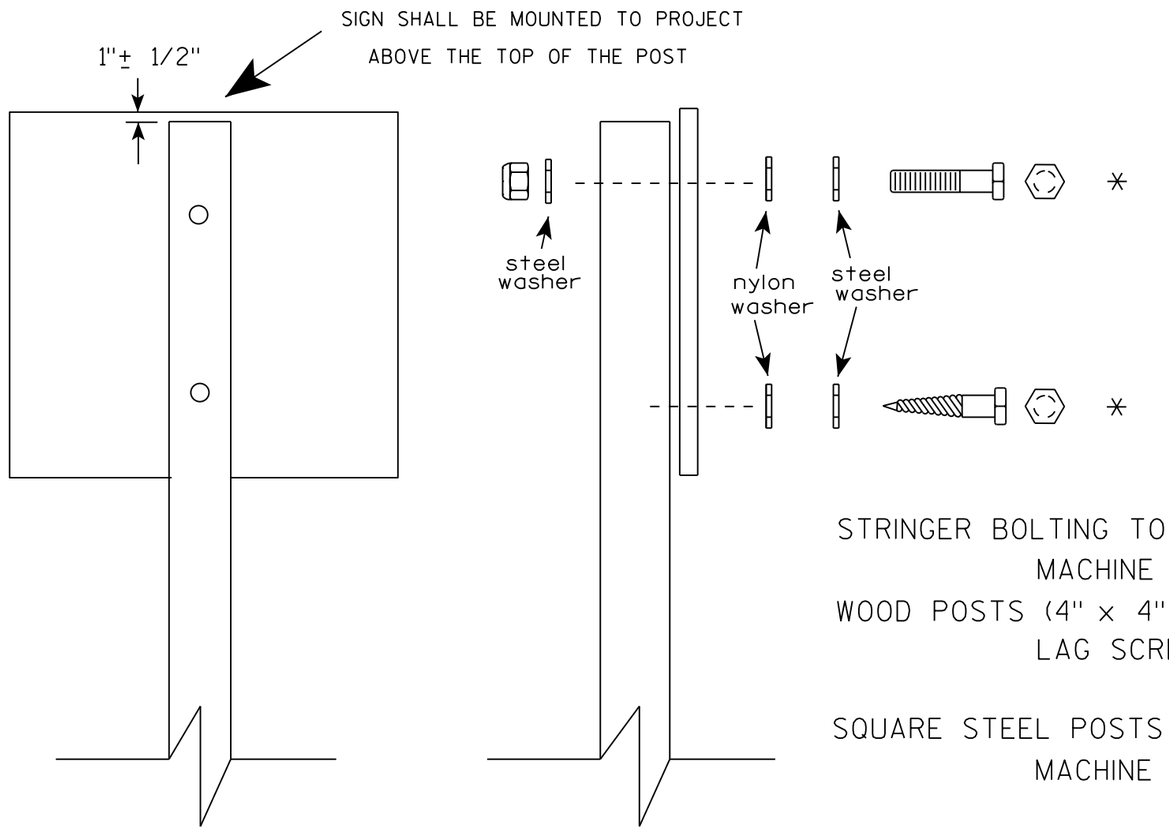
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 23-JUL-2015 15:23 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000 WISDOT/CADDS SHEET 42



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

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

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

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/11/16 PLATE NO. A4-8.8

7

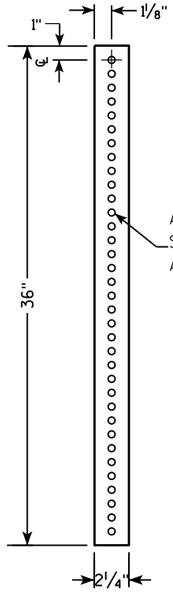
PROJECT NO:

SHEET NO: E

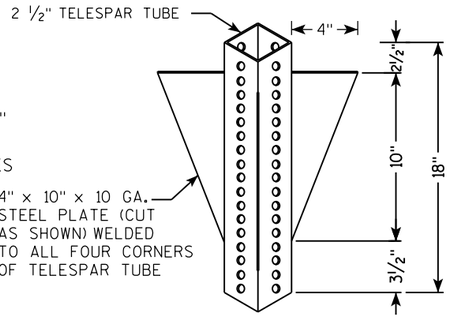
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

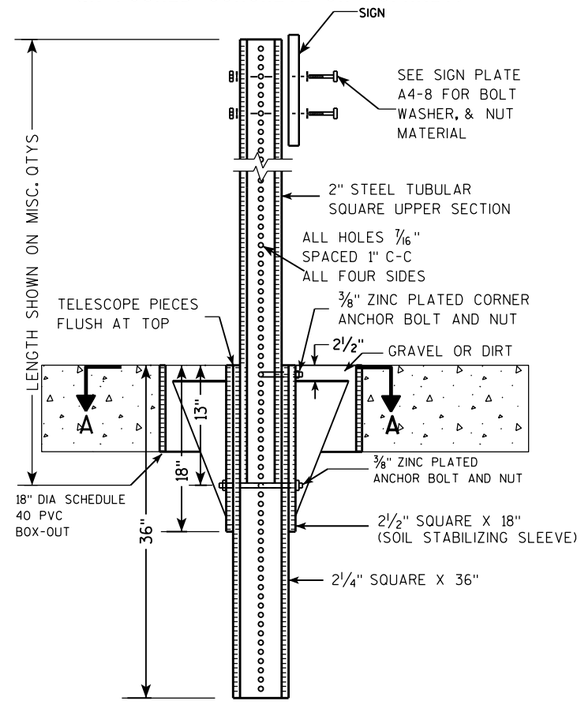
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



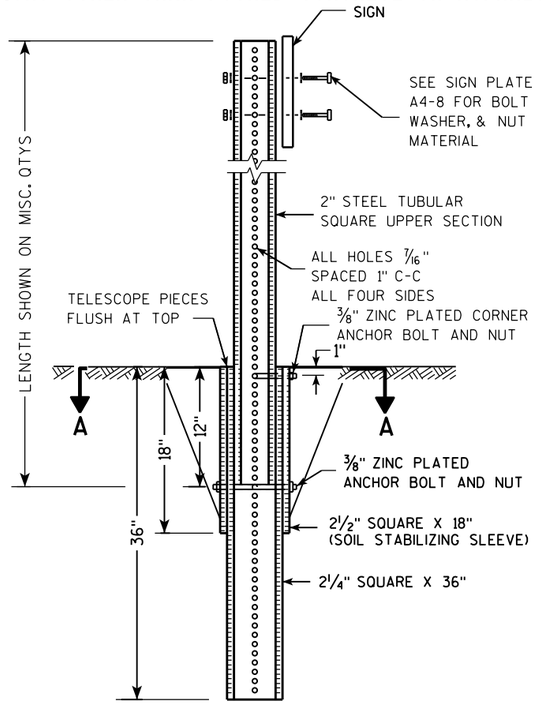
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

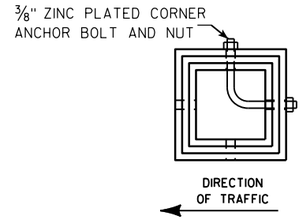


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

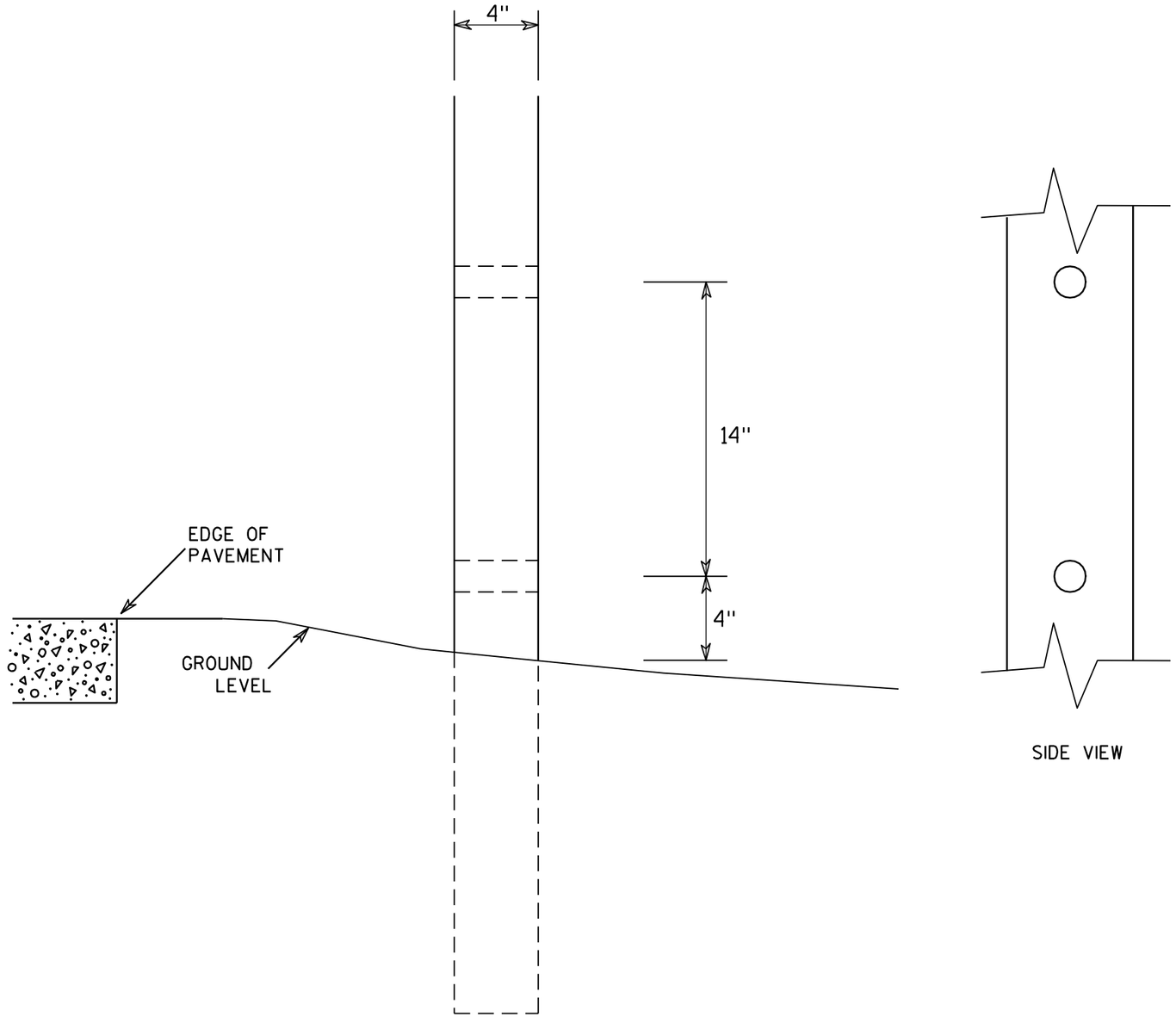
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 400 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



SIDE VIEW

GENERAL NOTES

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

7

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

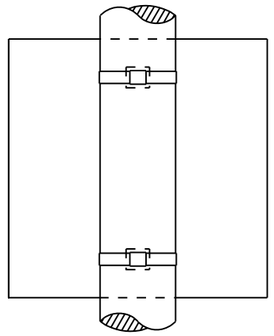
APPROVED Chester J Spang for State Traffic Engineer

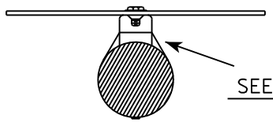
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 401	E

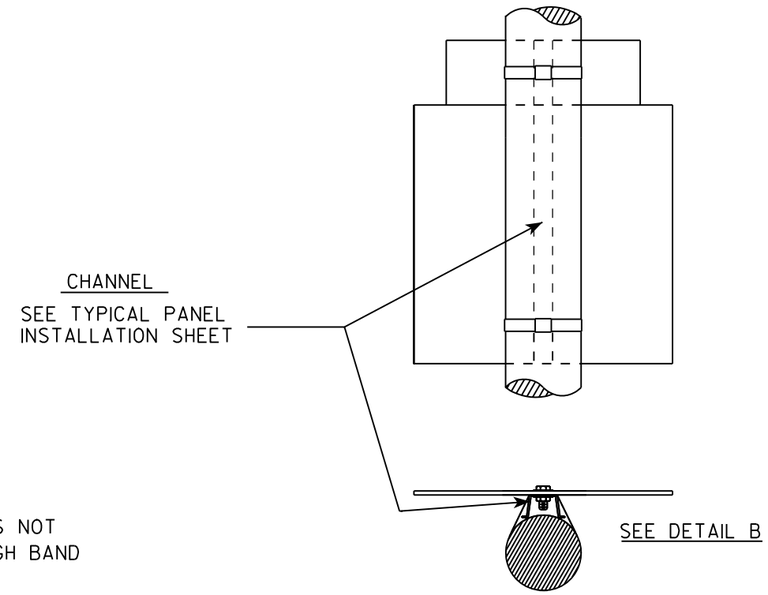
BANDING

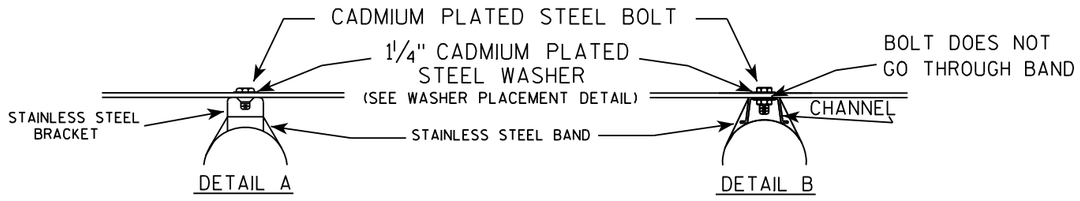
SINGLE SIGN



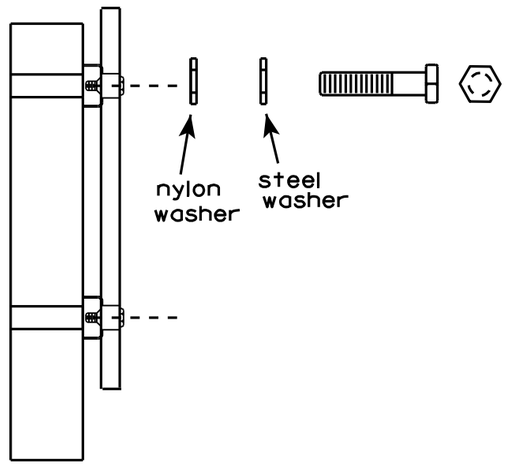


"J" ASSEMBLY





WASHER PLACEMENT



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

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.

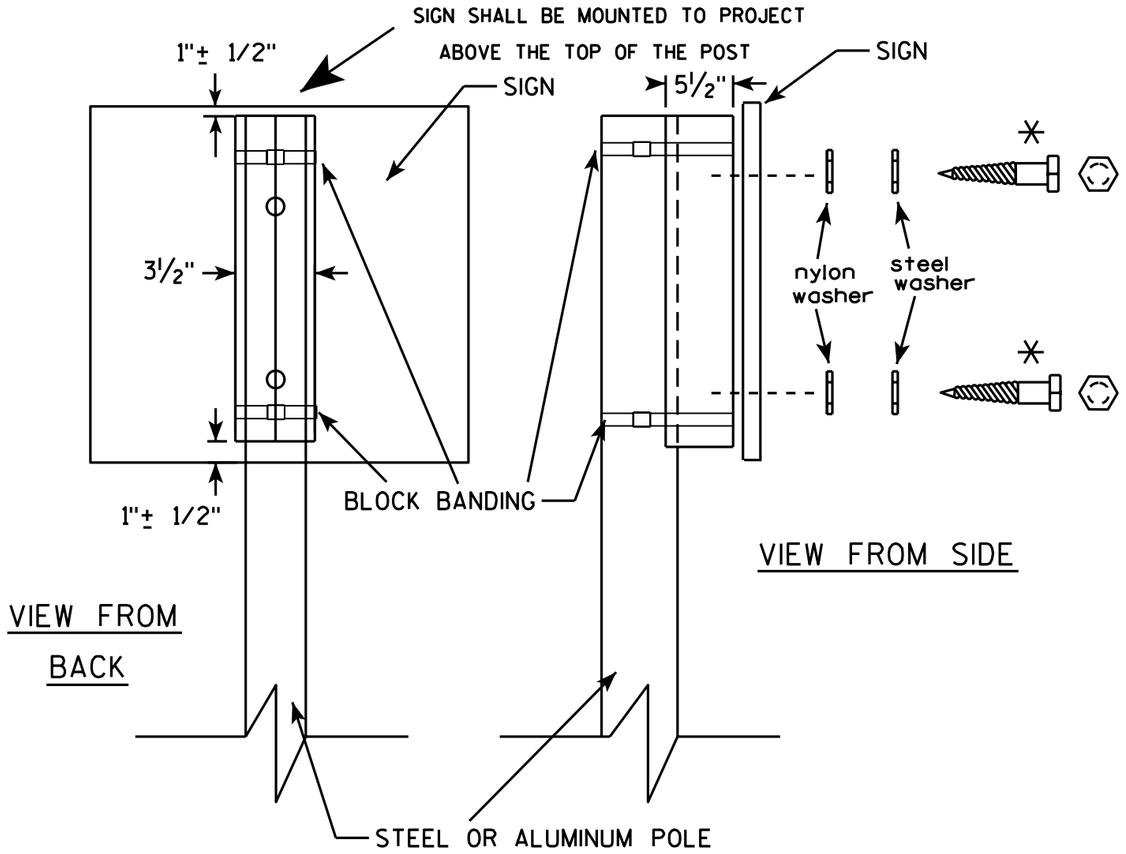
STANDARD SIGN
SIGN BANDING DETAILS

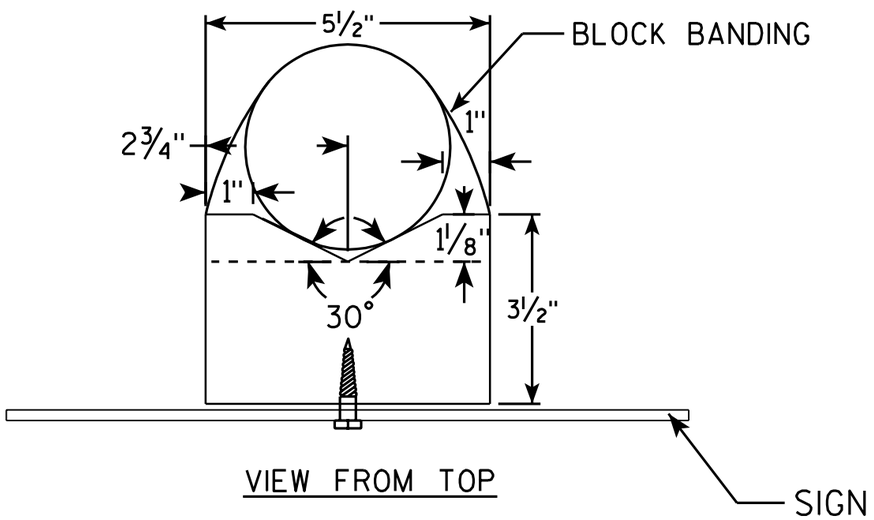
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 402	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

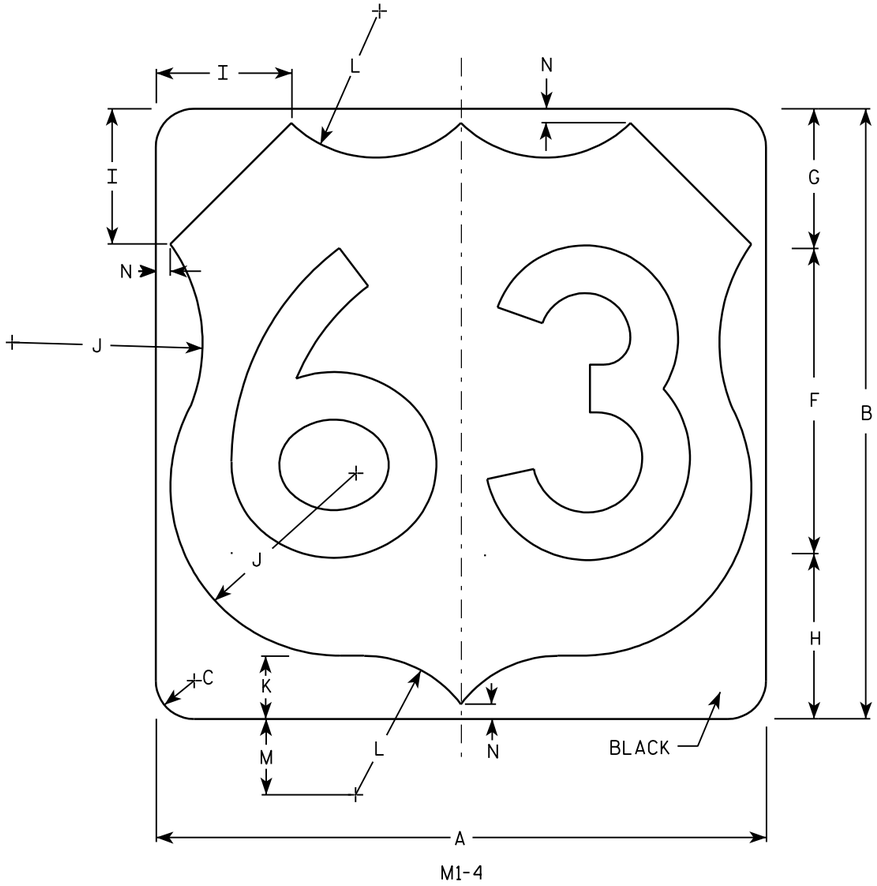
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

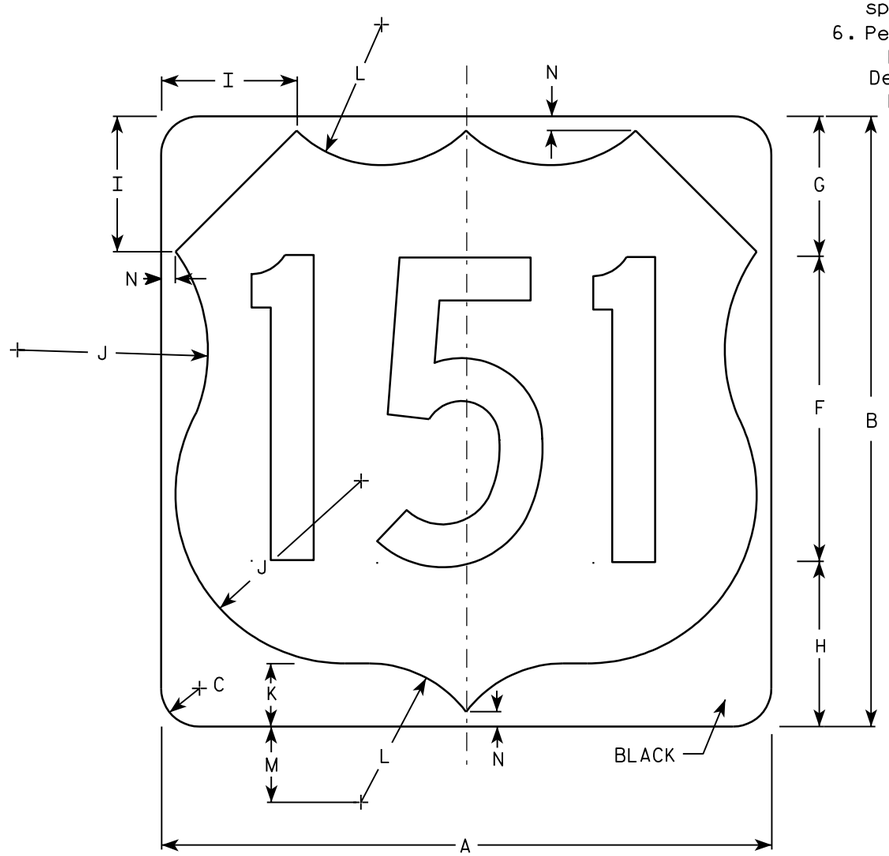
SHEET NO: 403 E

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective



M1-4



M1-4

7

7

Metric equivalent for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

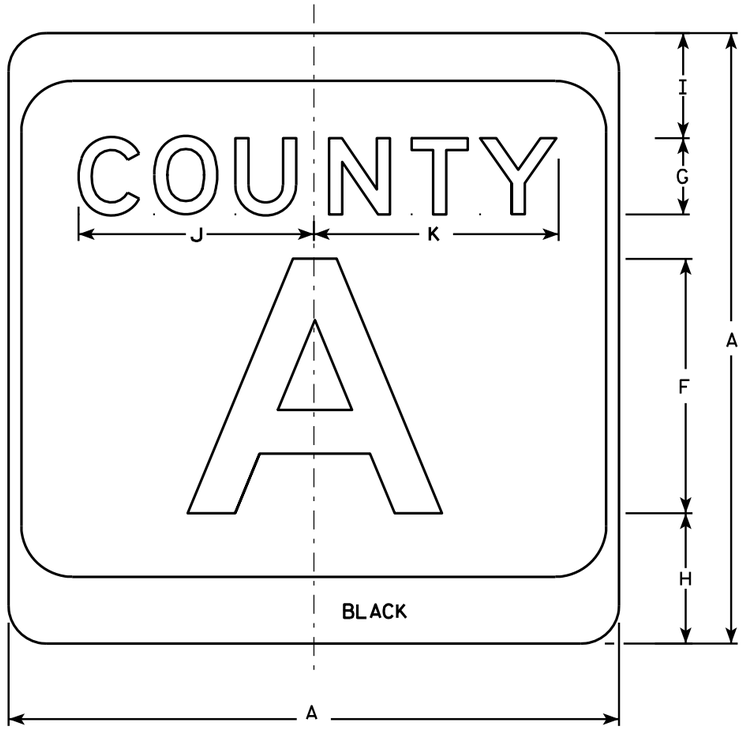
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

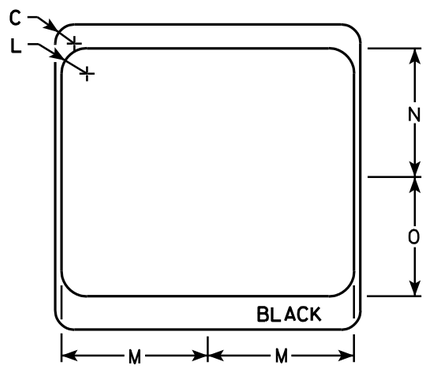
APPROVED Matthew R Rauch
for State Traffic Engineer

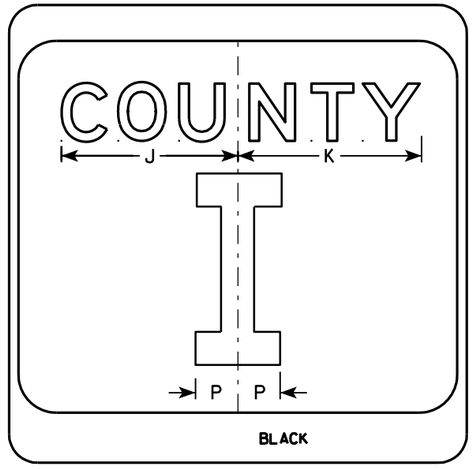
DATE 08/25/05 PLATE NO. M1-4.9

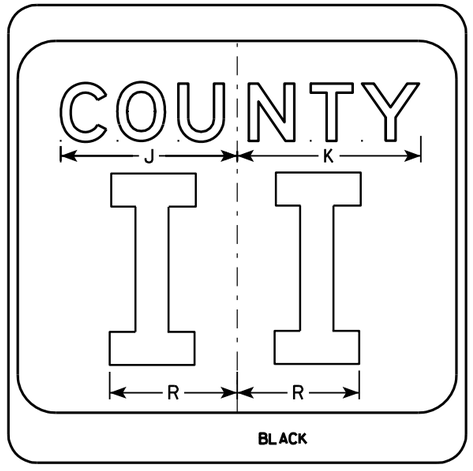
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 404	E



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

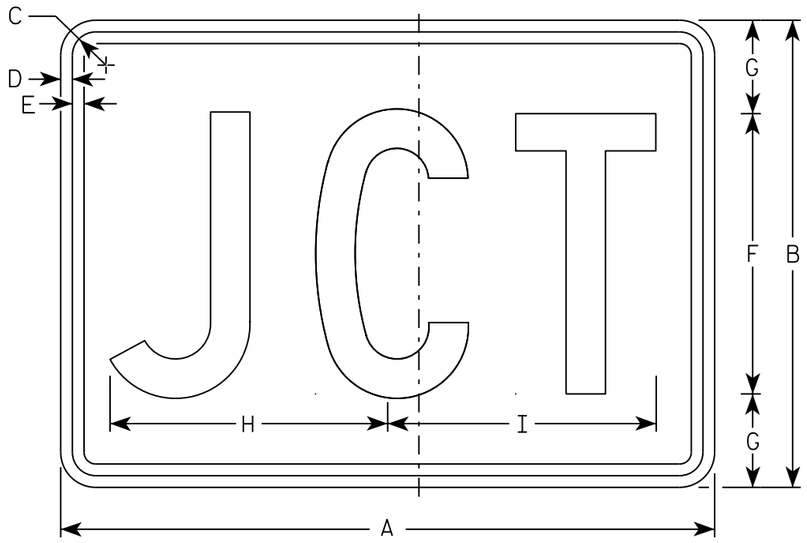
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

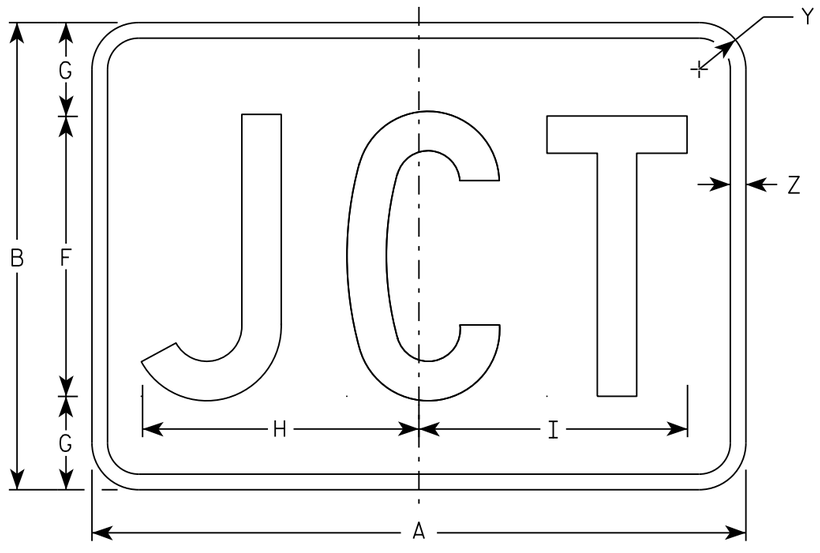
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 405 | E



M2-1
MM2-1
MP2-1



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

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

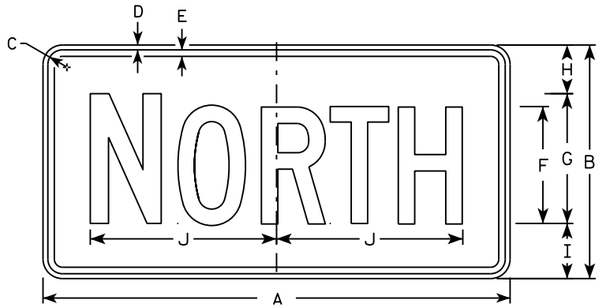
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

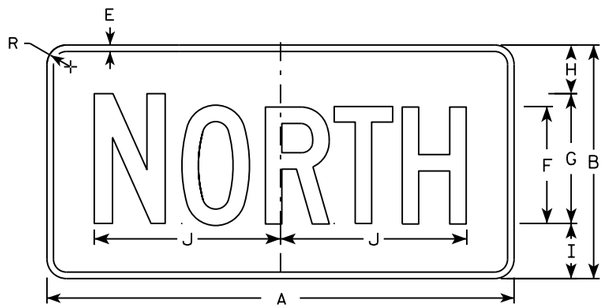
DATE 10/15/15 PLATE 406 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



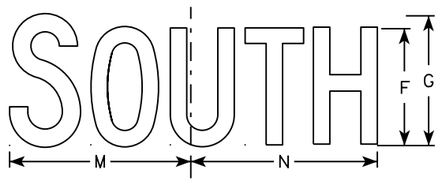
M3-1
MM3-1
MP3-1



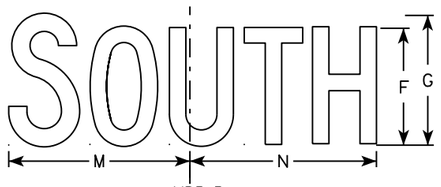
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

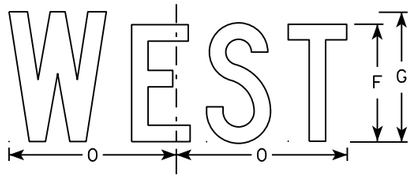
MB3-2
MK3-2
MN3-2



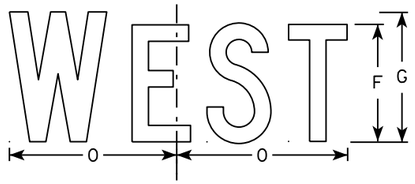
M3-3
MM3-3
MP3-3



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

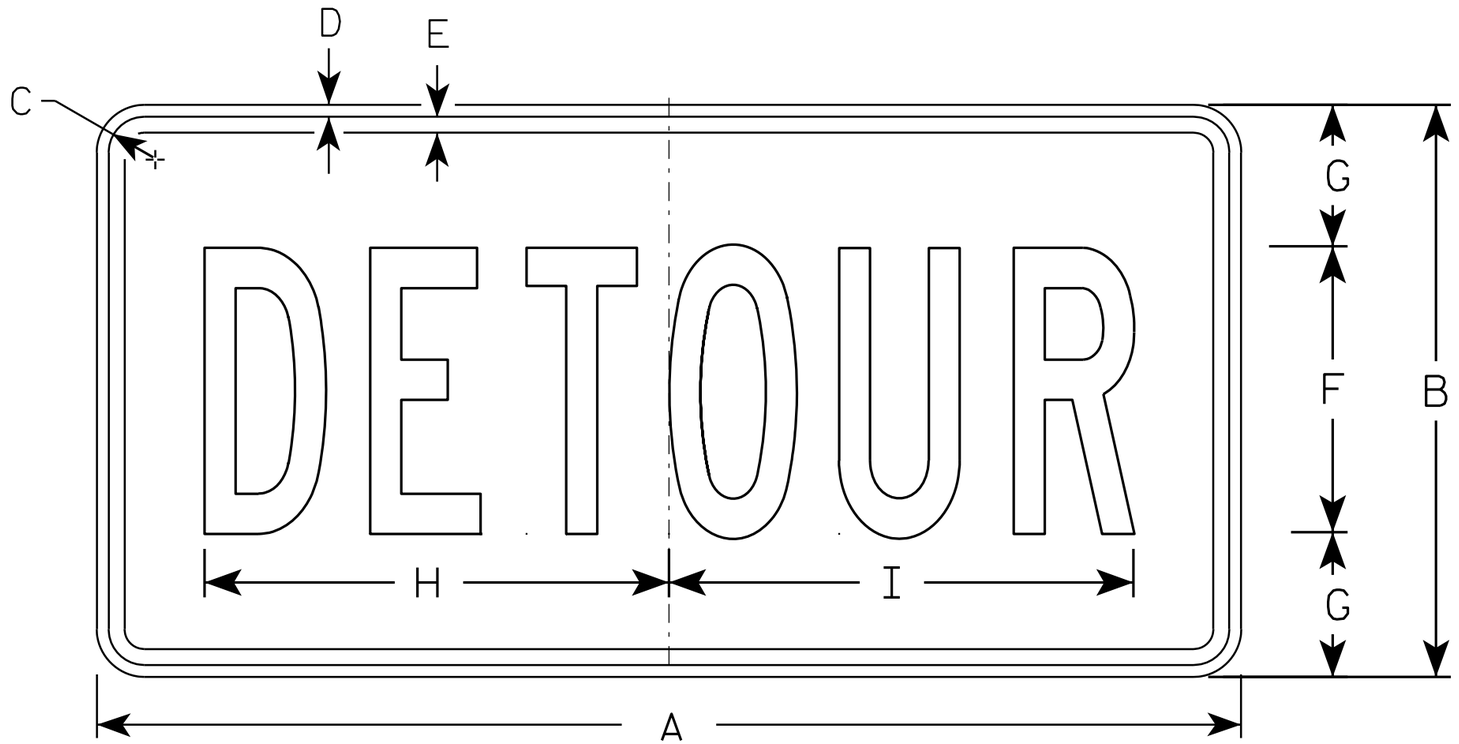
WISCONSIN DEPT OF TRANSPORTATION

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



M4-8

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																											

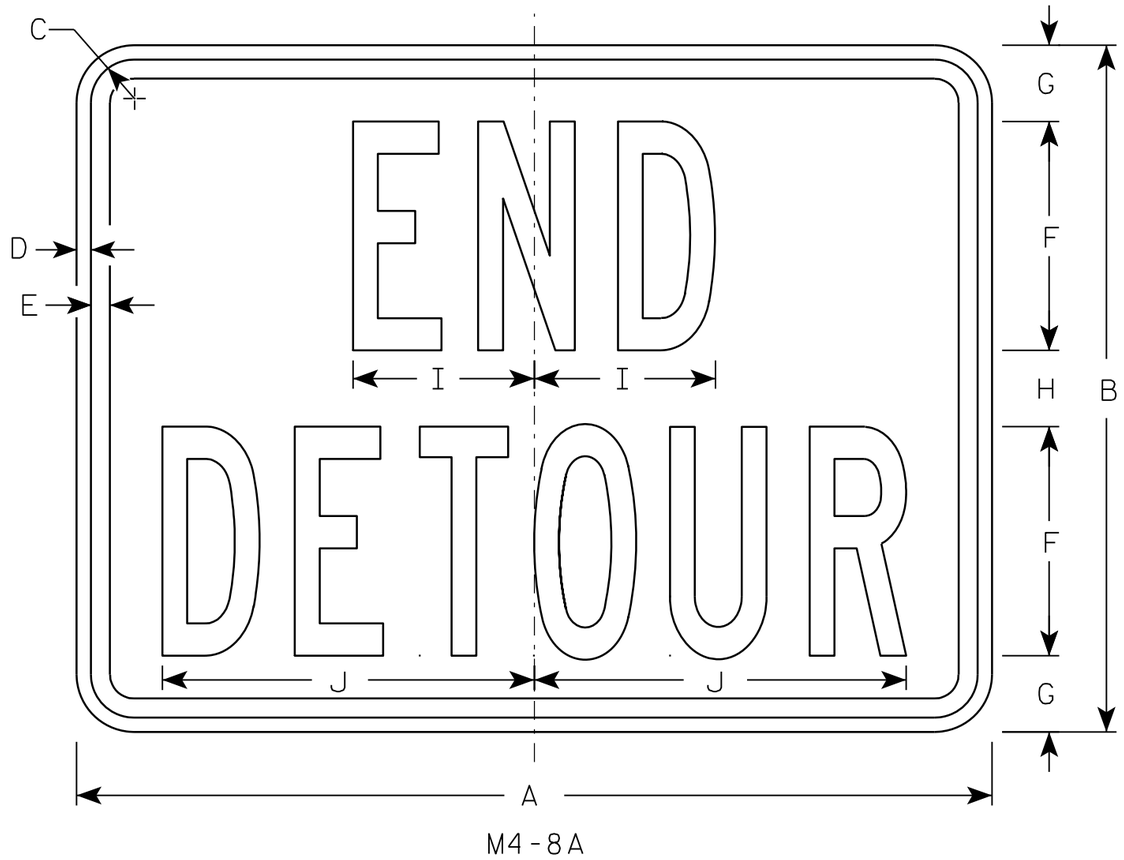
STANDARD SIGN
M4-8

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: 408	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																											

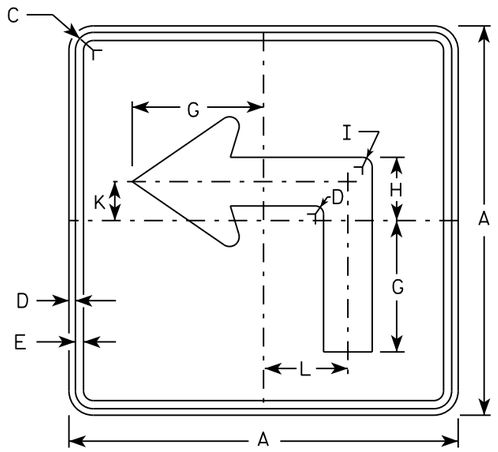
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

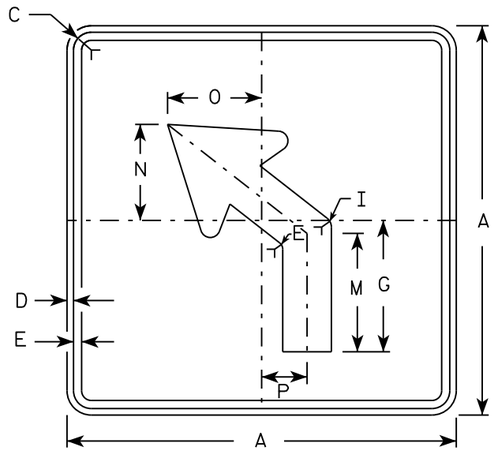
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

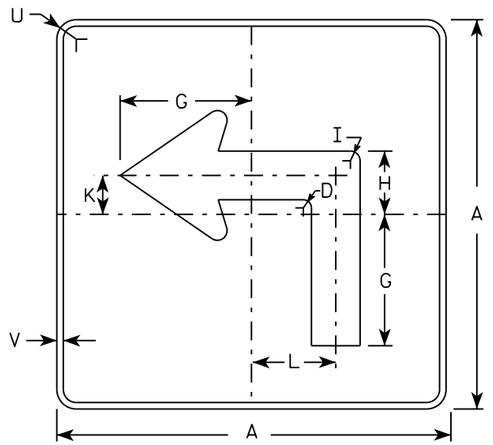
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 409	E



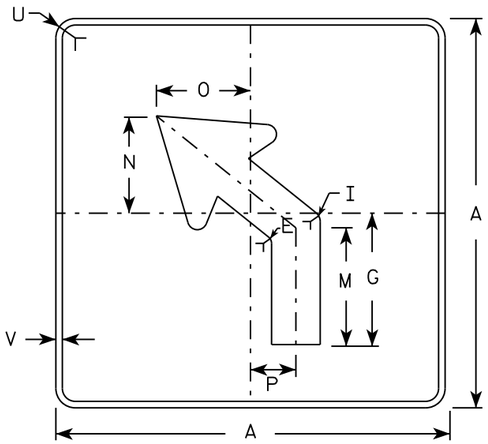
M5-1L
MM5-1L
MO5-1L
MP5-1L



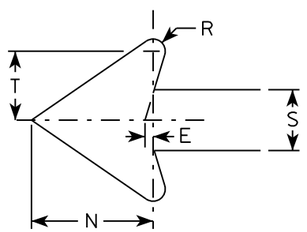
M5-2L
MM5-2L
MO5-2L
MP5-2L



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

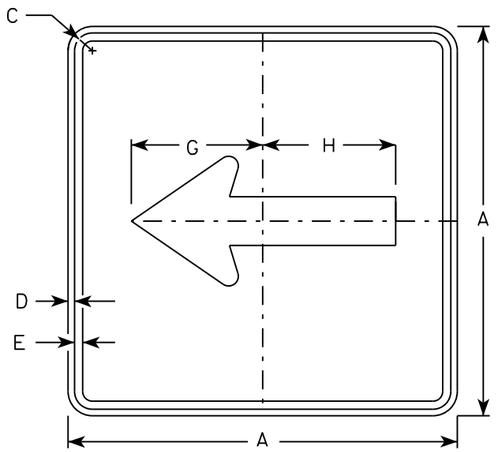
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

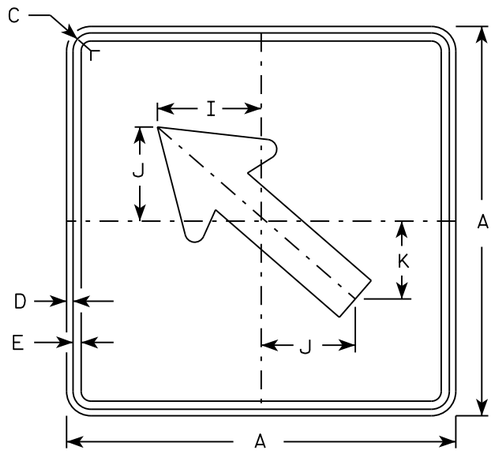
DATE 10/15/15 PLATE NO. M5-1.13

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



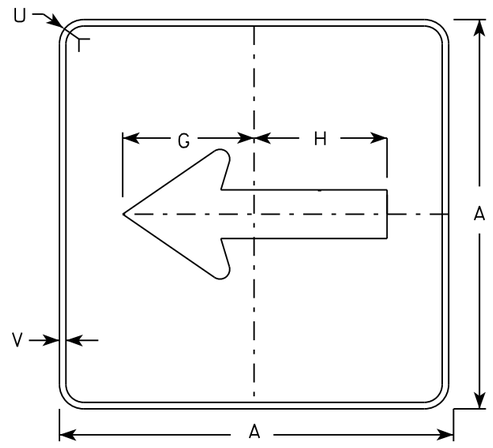
M6-1
MM6-1
MO6-1
MP6-1



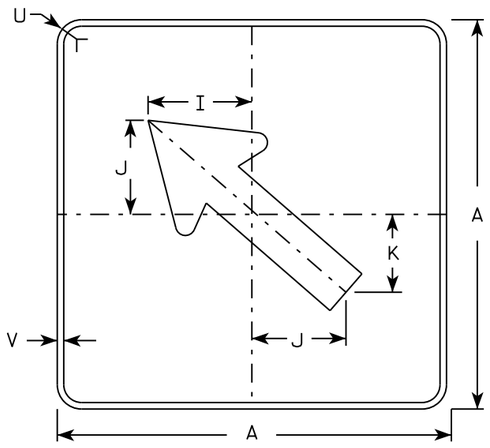
M6-2
MM6-2
MO6-2
MP6-2

NOTES

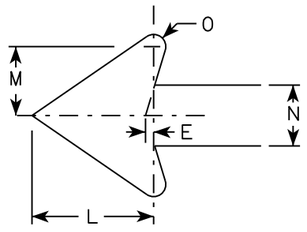
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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

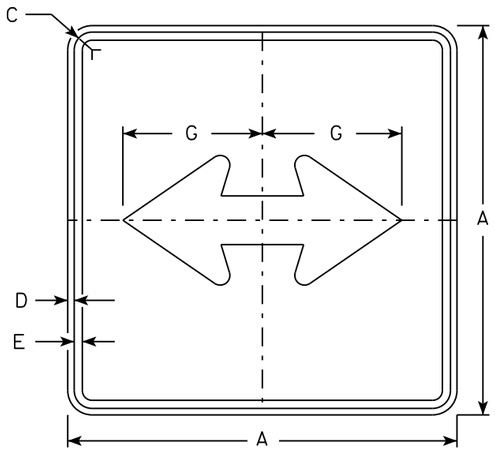
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

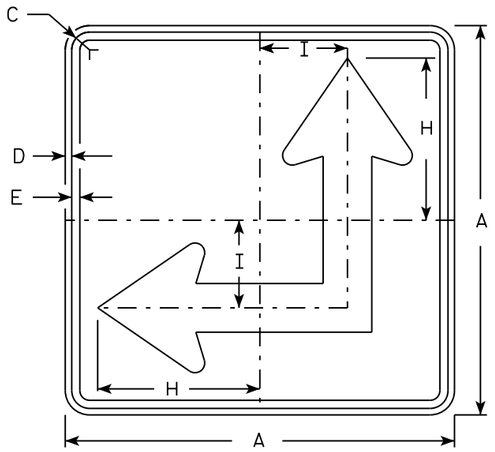
DATE 10/15/15 PLATI 411 M6-1.15

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



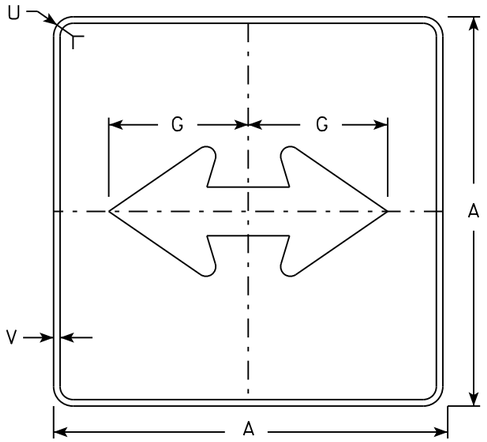
M6-4
MM6-4
MO6-4
MP6-4



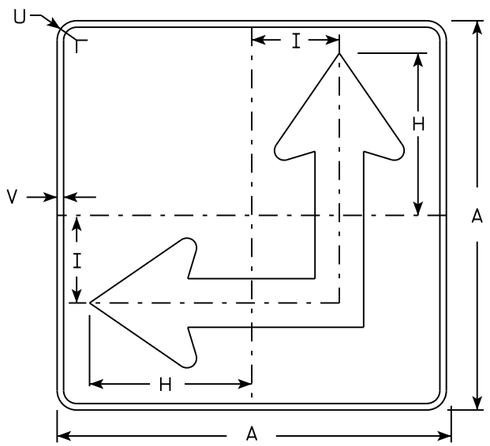
M6-6
MM6-6
MO6-6
MP6-6

NOTES

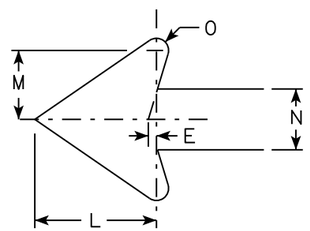
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	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	12 1/2	6 3/4			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	12 1/2	6 3/4			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	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

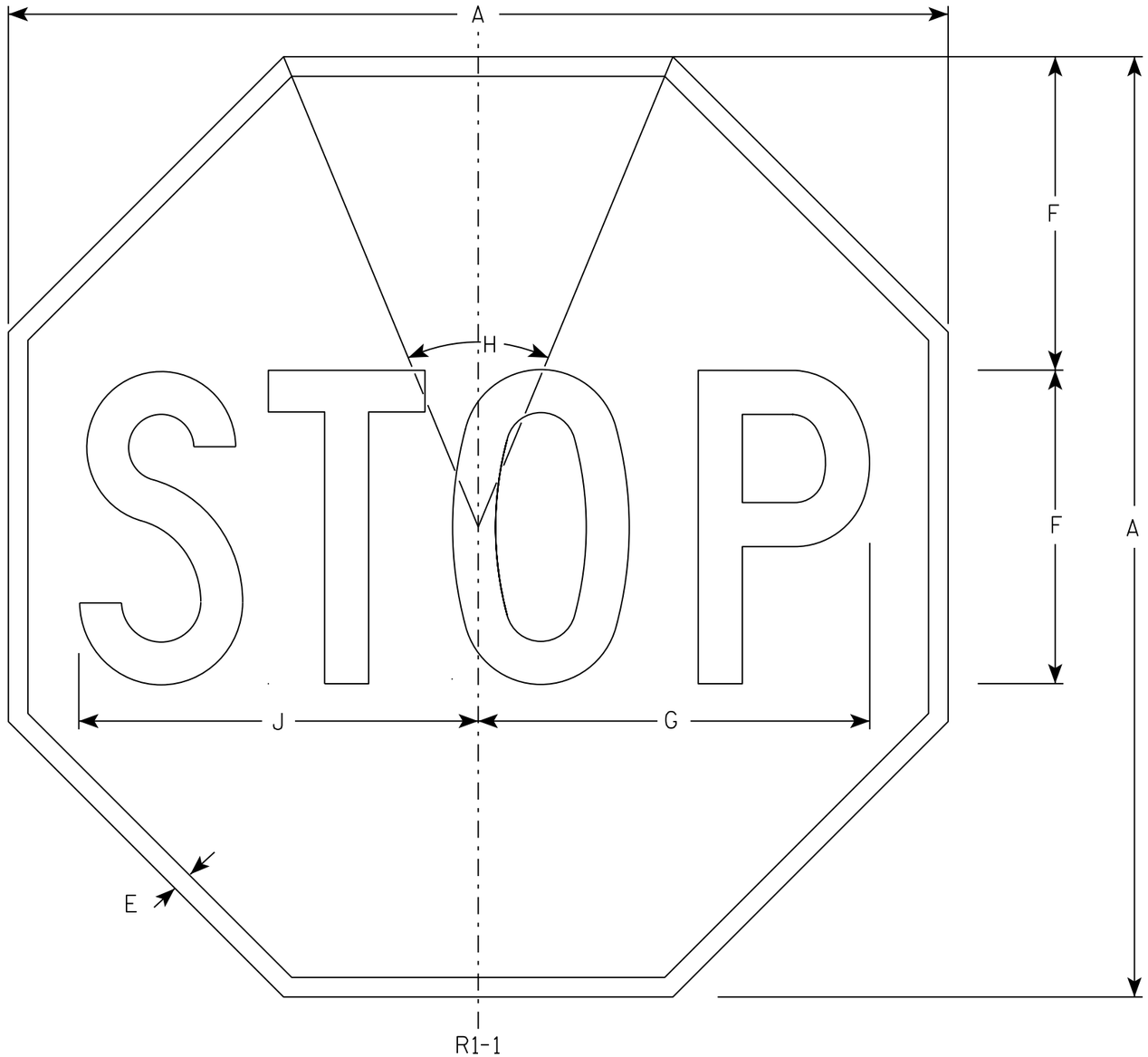
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 10/15/15 PLATE 412 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

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

STANDARD SIGN
R1-1

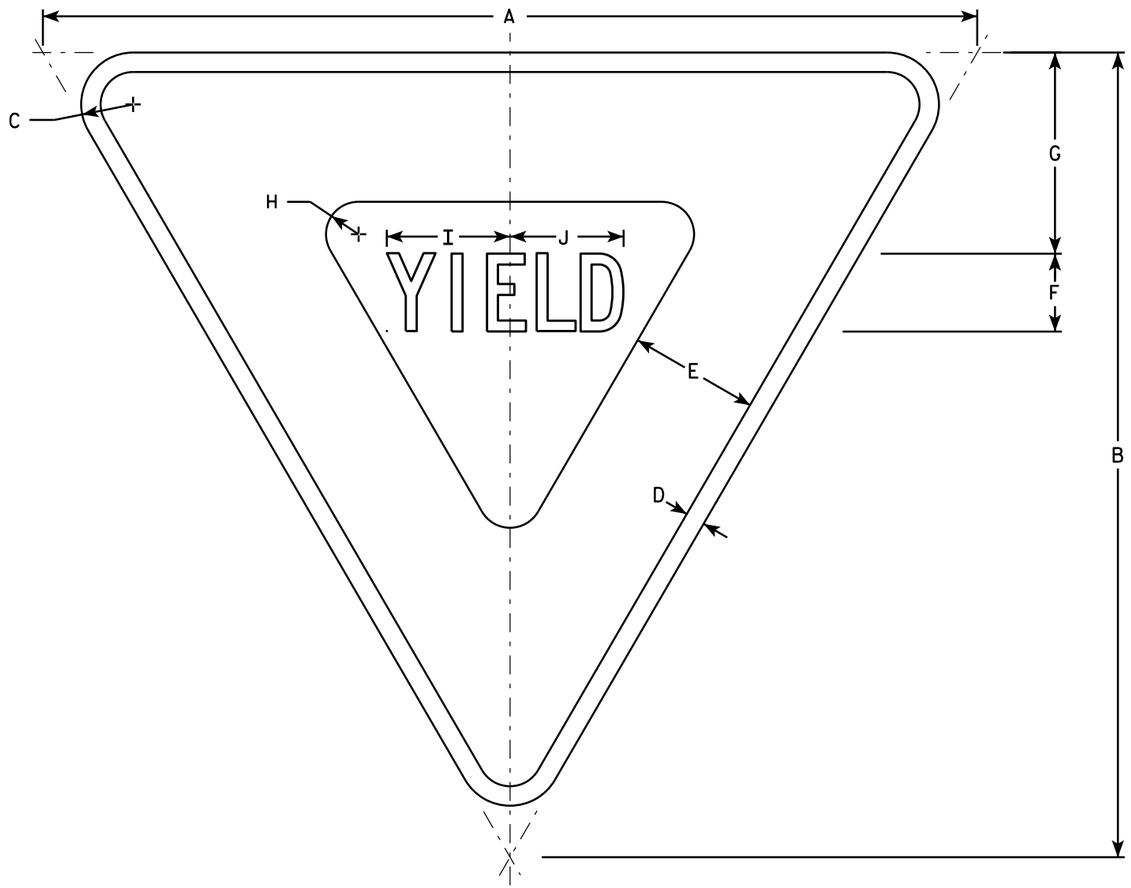
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE 413 R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.378143:1.000000



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

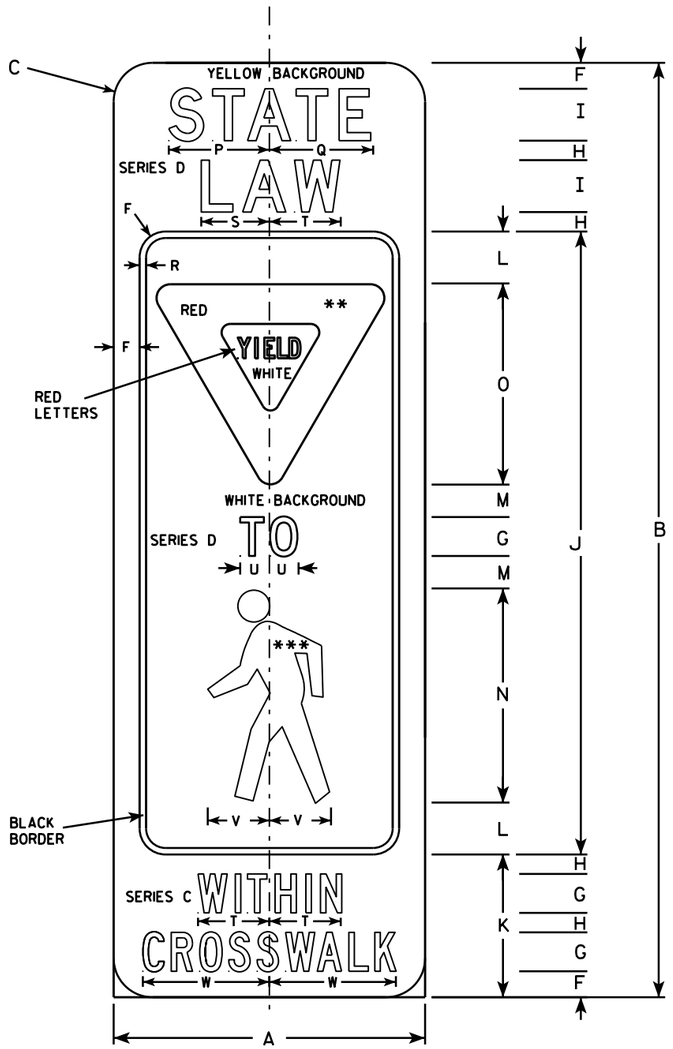
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000

WISDOT/CADDS SHEET 42



R1-6

** INSERT R1-2 AND SIZE TO FIT

*** INSERT W11-2 AND SIZE TO FIT

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - YELLOW
   Message - BLACK
   YIELD SYMBOL - RED ON WHITE
   PED SYMBOL - BLACK ON WHITE
3. Message Series - AS SHOWN AND IN TABLE
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	12	36	1 ½			1	1 ½C	¾	2 D	24	5 ½	2	1 ¼	8 ¼	7 ¾	3 ⅞	4	¼	2 ⅝	2 ¾	1 ⅛	2 ⅜	4 ⅞				3.0
2M	12	36	1 ½			1	1 ½C	¾	2 D	24	5 ½	2	1 ¼	8 ¼	7 ¾	3 ⅞	4	¼	2 ⅝	2 ¾	1 ⅛	2 ⅜	4 ⅞				3.0
3																											
4																											
5																											

STANDARD SIGN
R1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

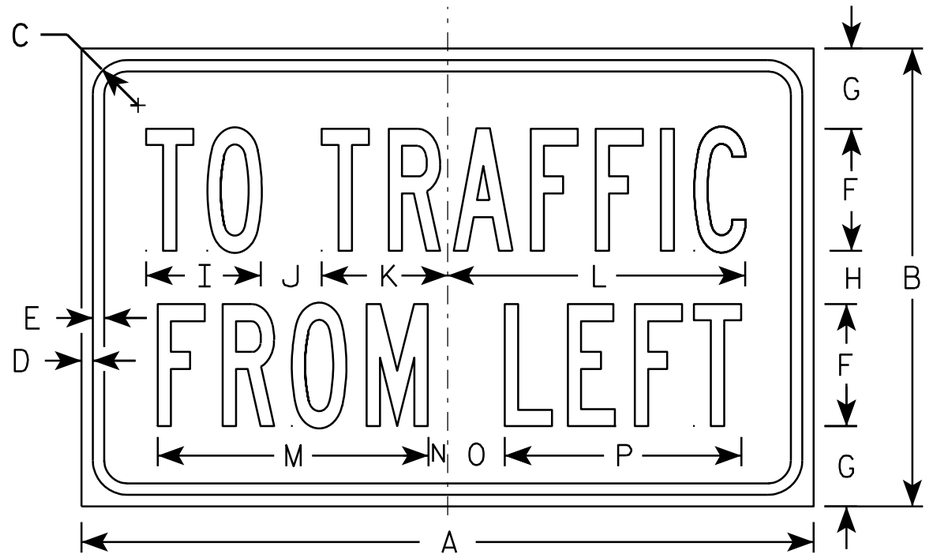
DATE 4/29/14 PLATE NO. R1-6.3

PROJECT NO:

SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R16.DGN PLOT DATE : 30-APR-2014 10:49 PLOT BY : mscsja

WISDOT/CADDS SHEET 42



R1-54

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
2M	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
3																											
4																											
5																											

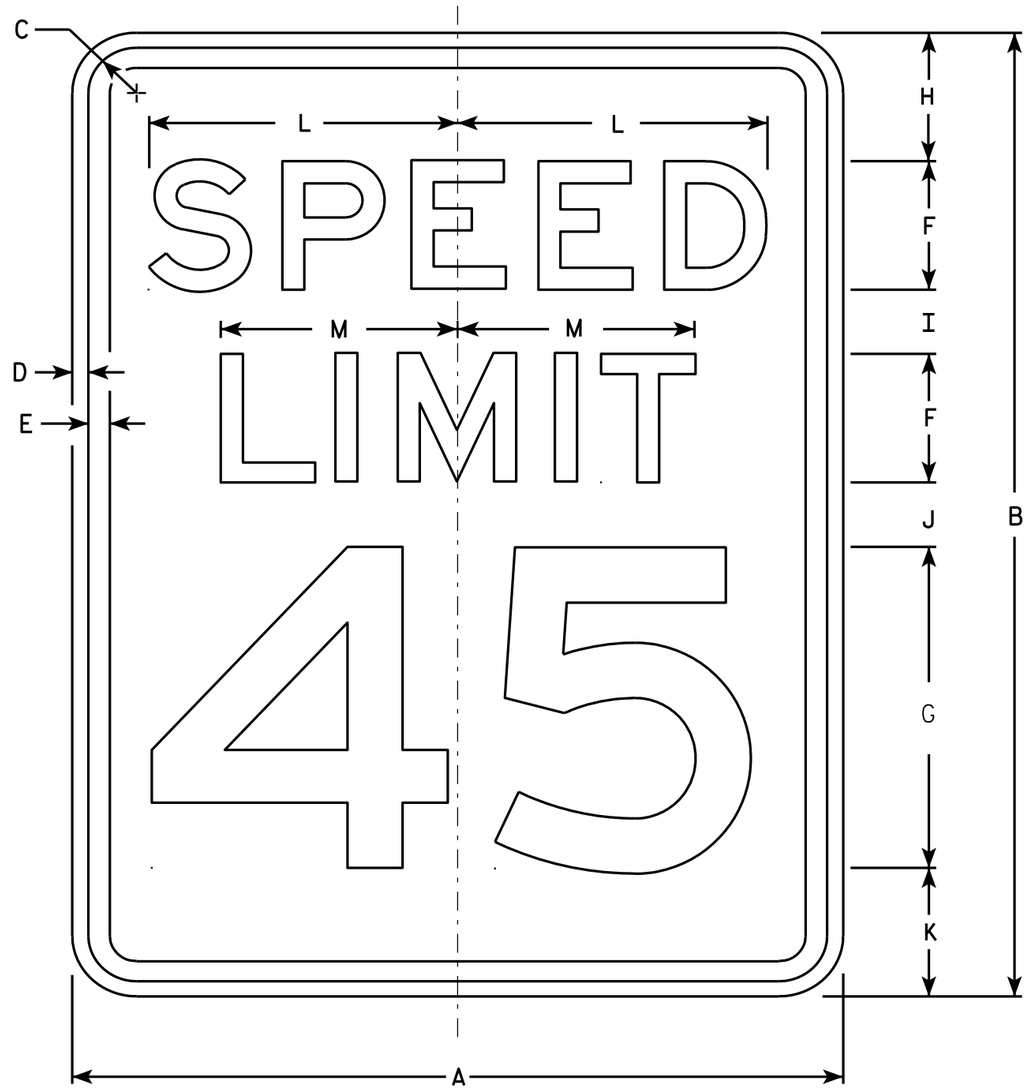
STANDARD SIGN
R1-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-54.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 416	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

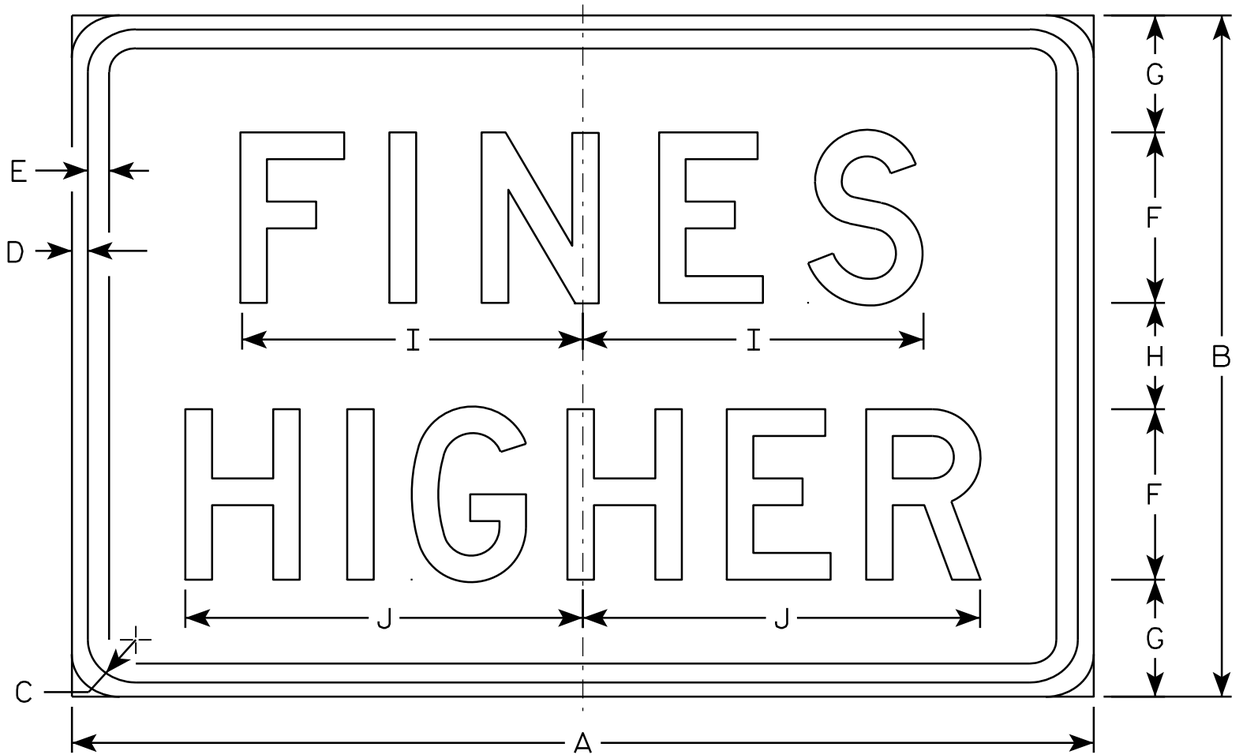
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 417	E



R2-6P

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
2M	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 3/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

STANDARD SIGN
R2-6P

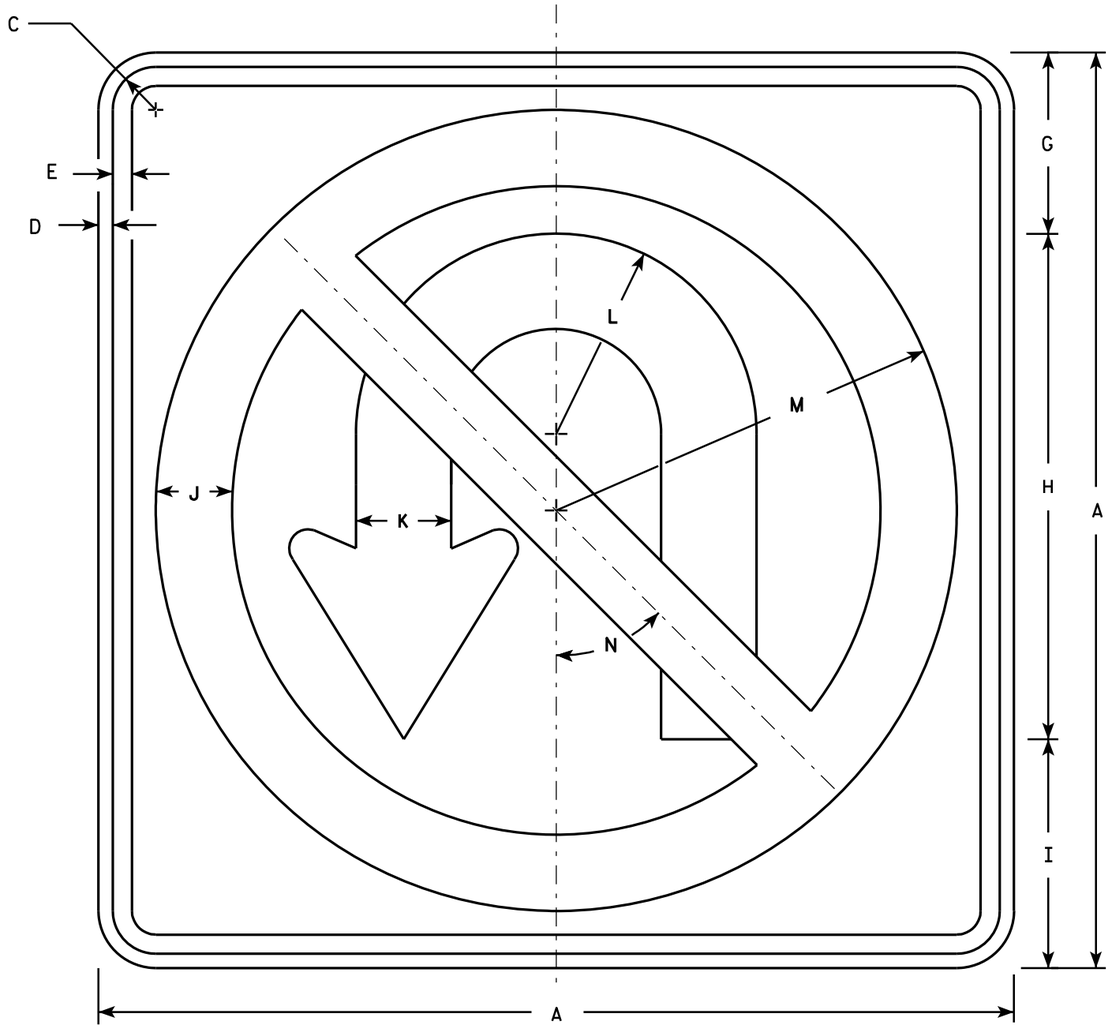
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. R2-6P.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 418 | E

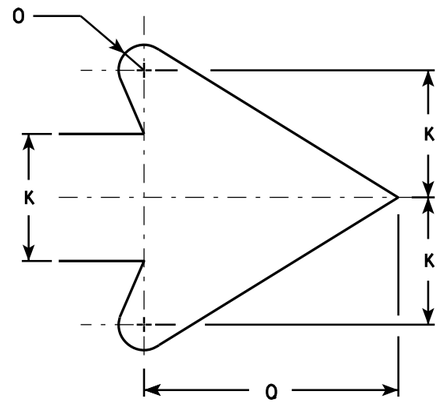
7



R3-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
3	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
4	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
5	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0

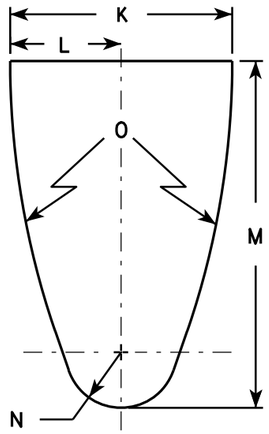
STANDARD SIGN
R3-4

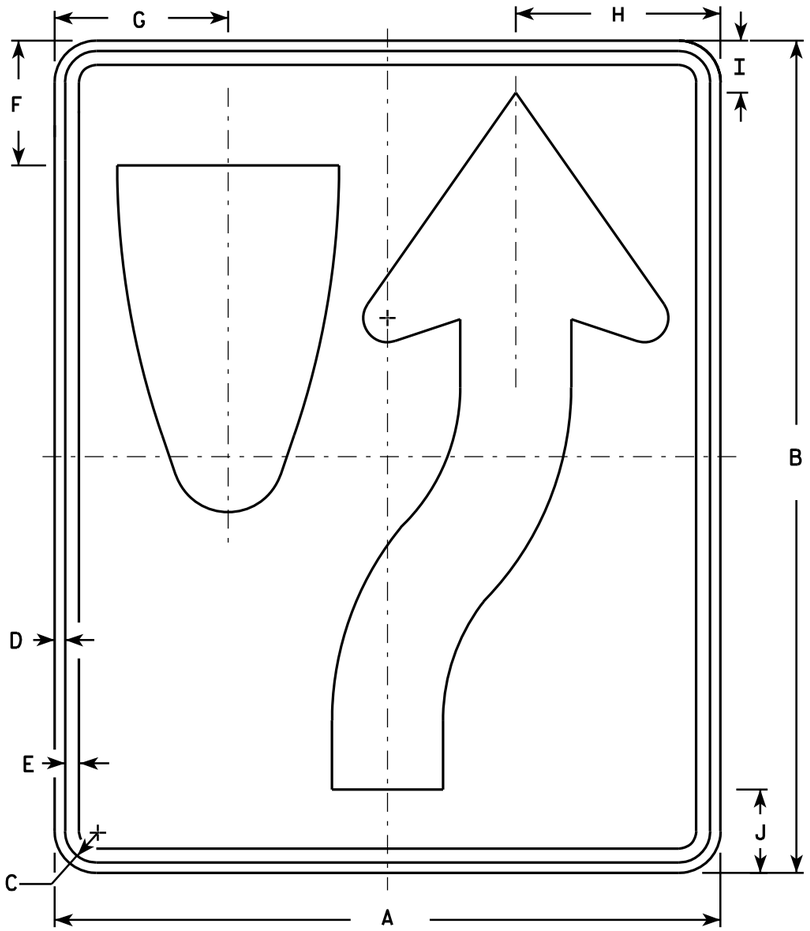
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-4.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 419	E

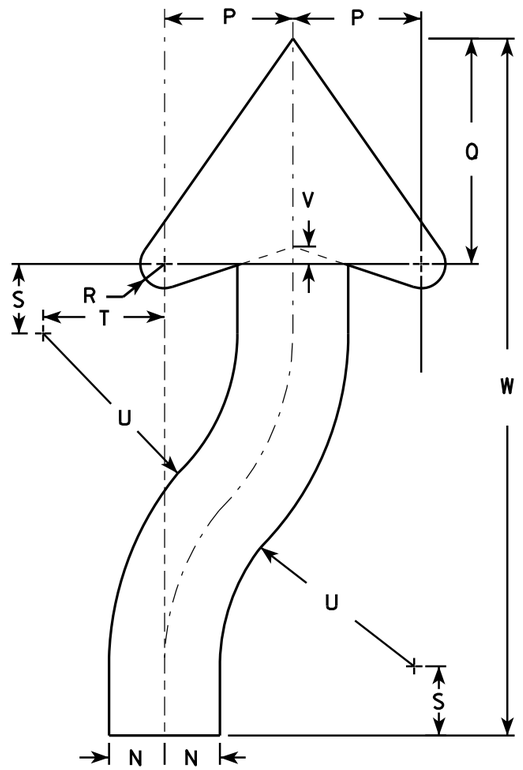




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

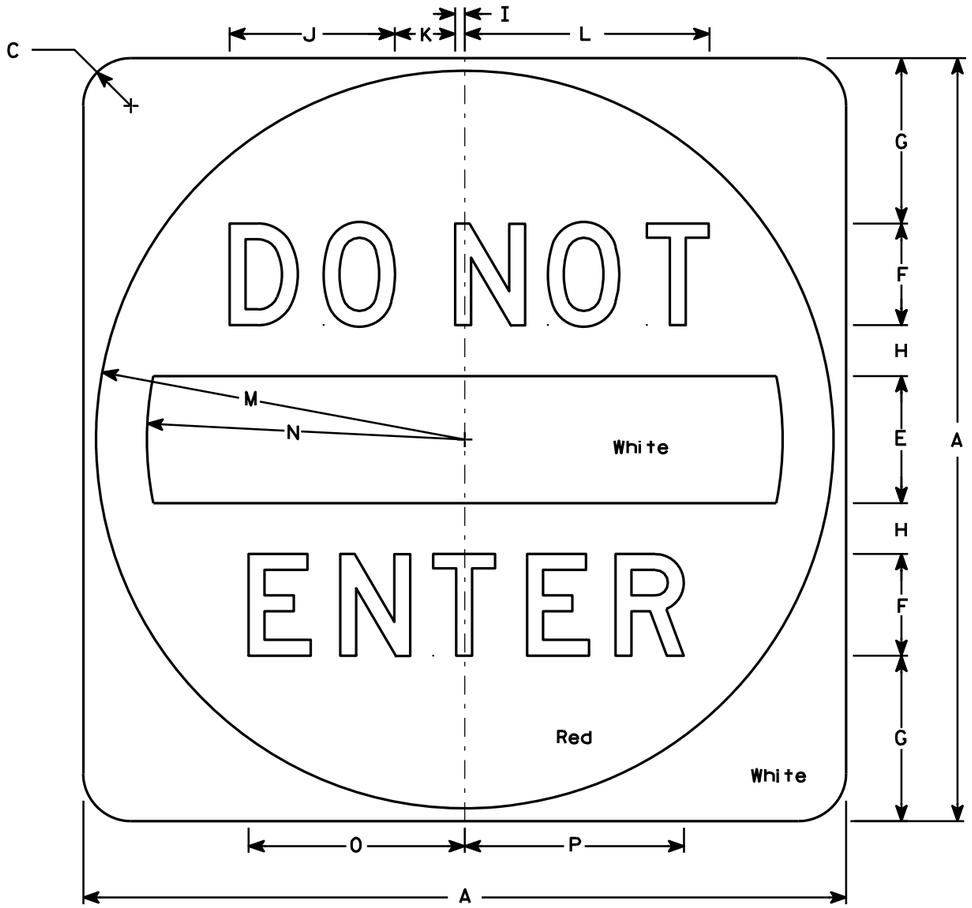
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 420	E



R5-1

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

STANDARD SIGN
R5-1

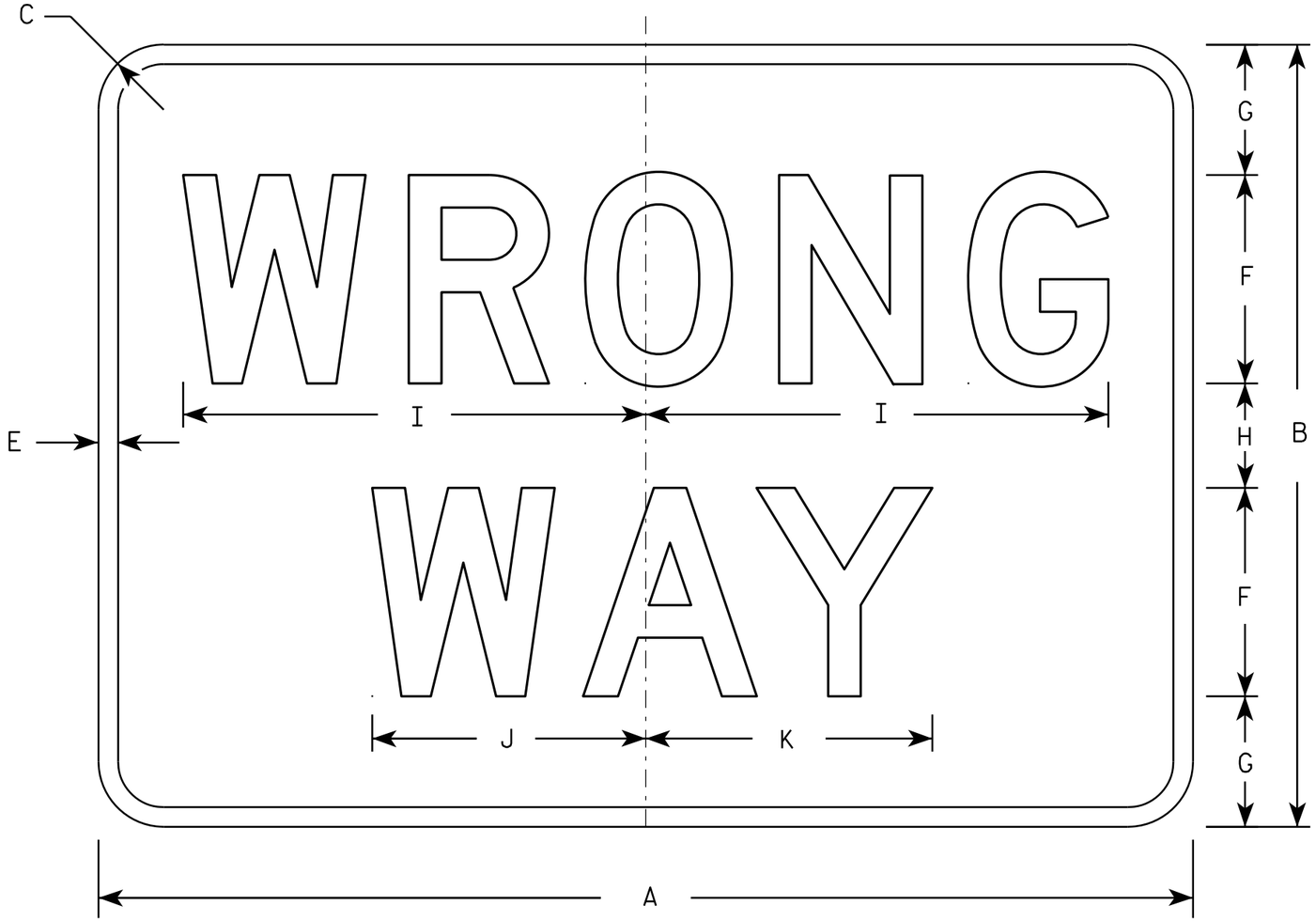
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 421 | E

7



R5-1A

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

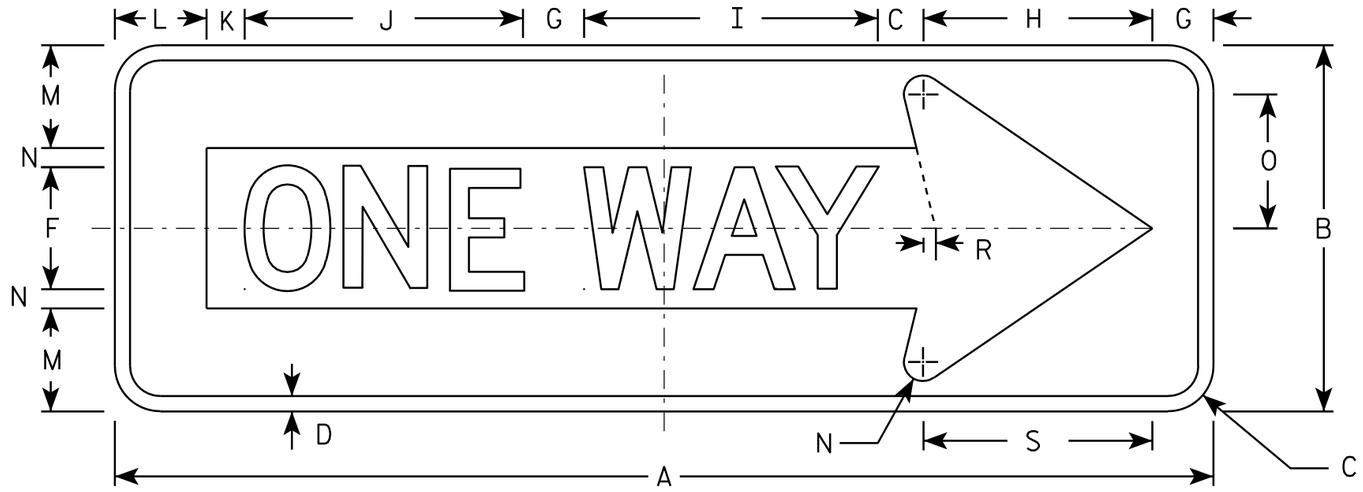
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

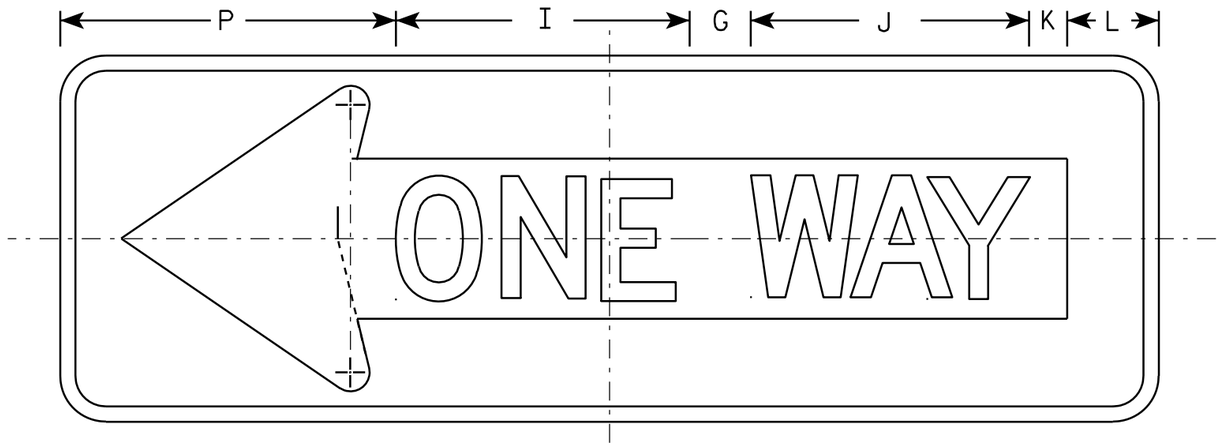
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 422	E



R6-1R

NOTES

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



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 ½	½		4	2	7 ½	9 ⅝	9 ⅛	1 ¼	3	3 ⅜	⅝	4 ⅜	11		⅜	7 ½								3.0
2M	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
3	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
4	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
5																											

STANDARD SIGN
R6-1 L & R

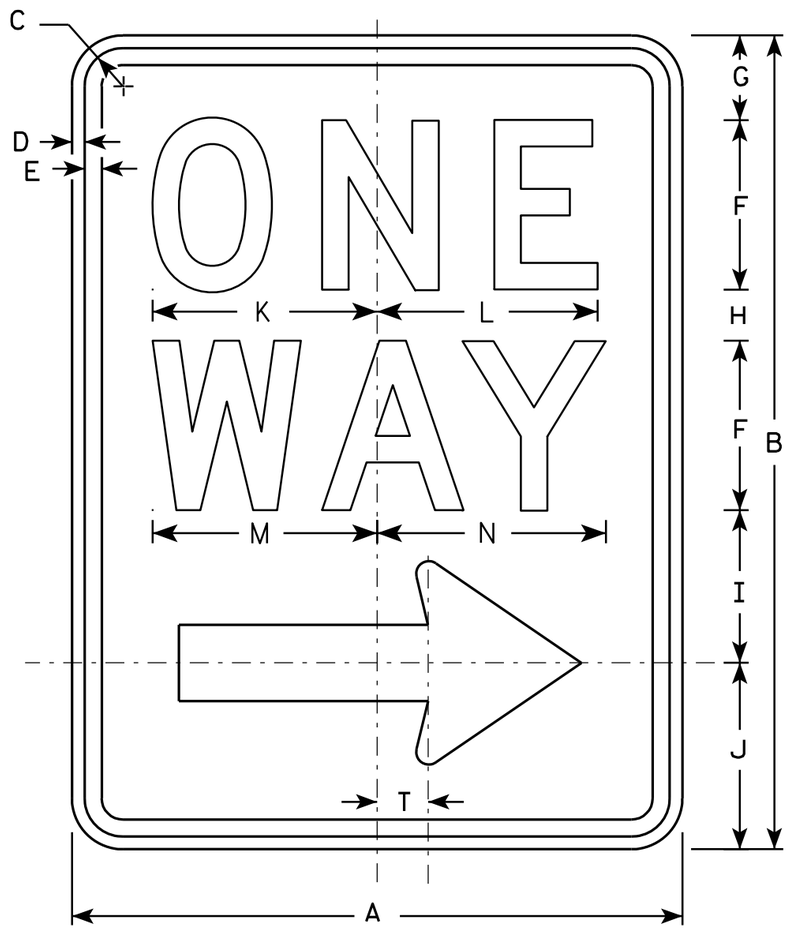
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R6-1.2

PROJECT NO:

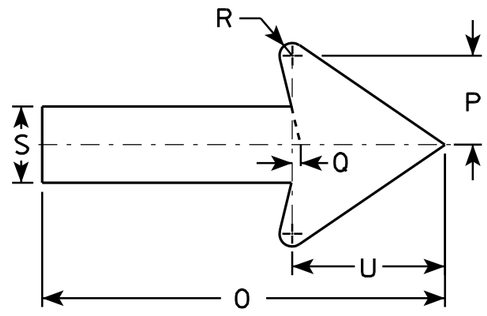
SHEET NO: 423 E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

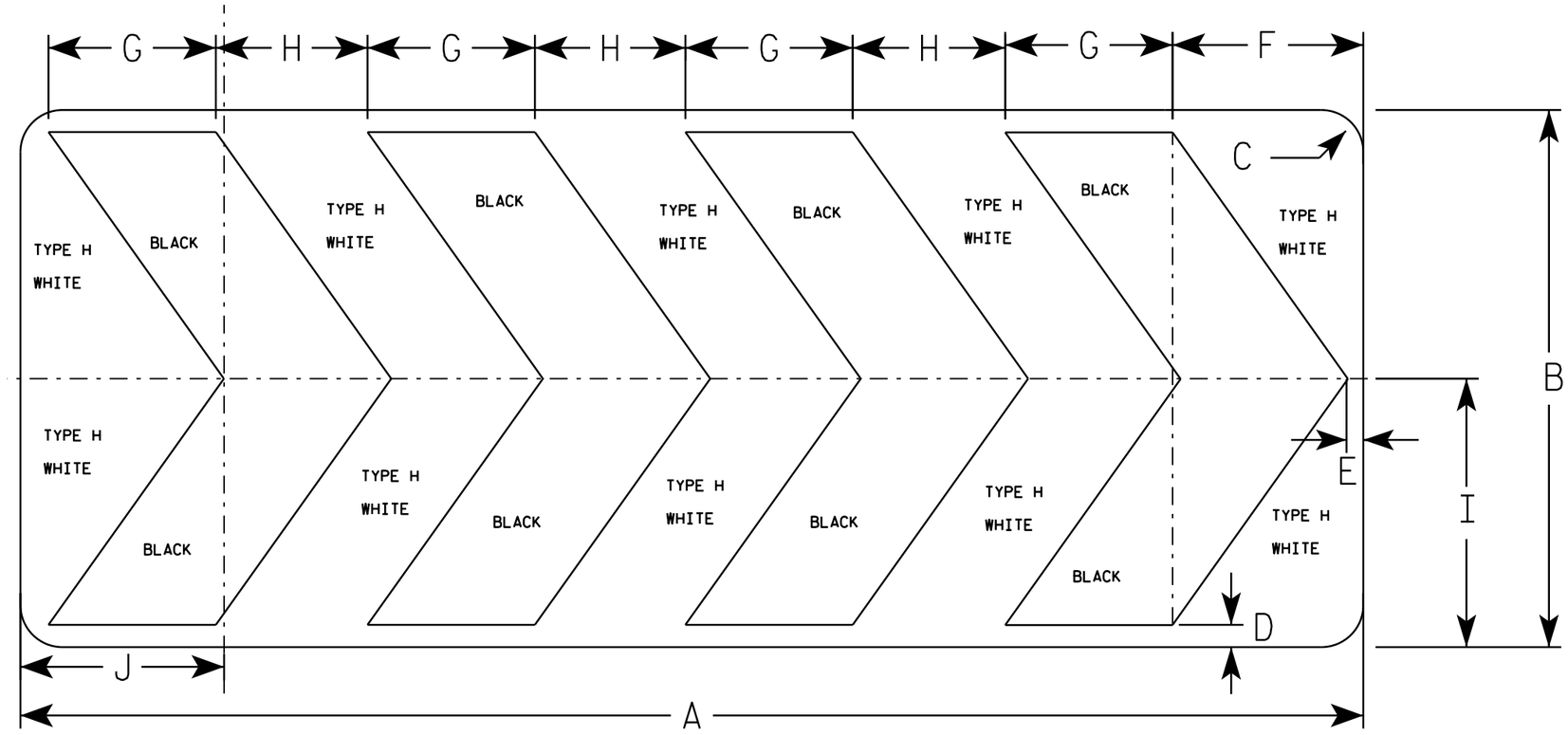
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 424	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   Message - BLACK
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-4B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

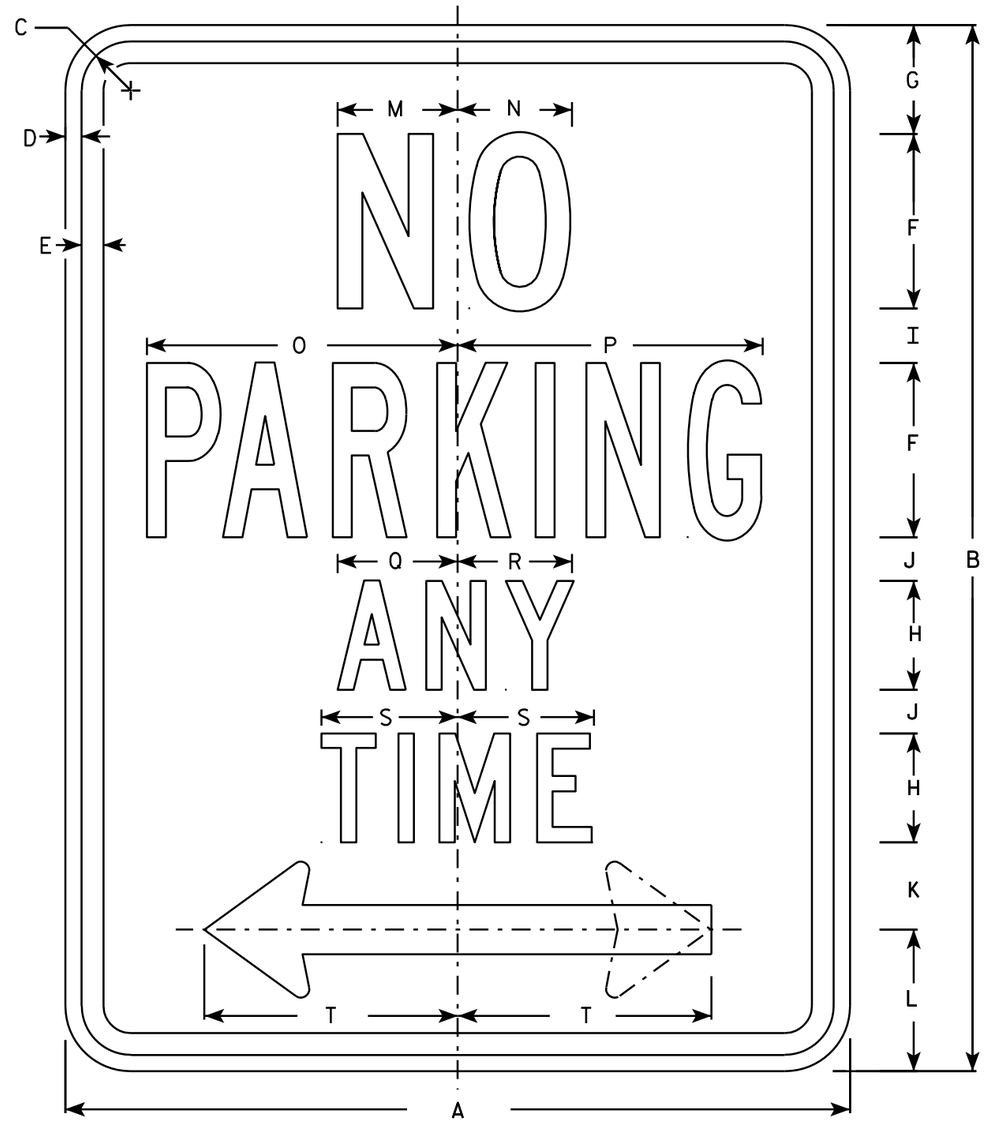
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/14 PLATE NO. R6-4.3

PROJECT NO: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R64B.DGN PLOT DATE : 21-AUG-2014 15:01 PLOT BY : mscsja

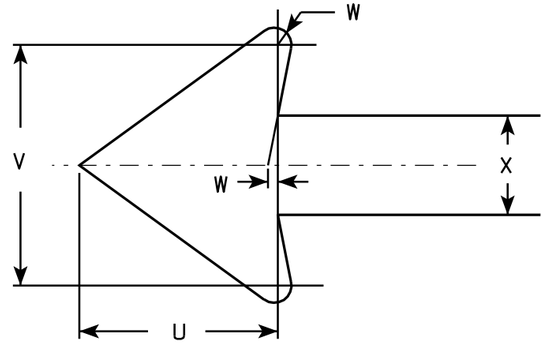
WISDOT/CADDS SHEET 42



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

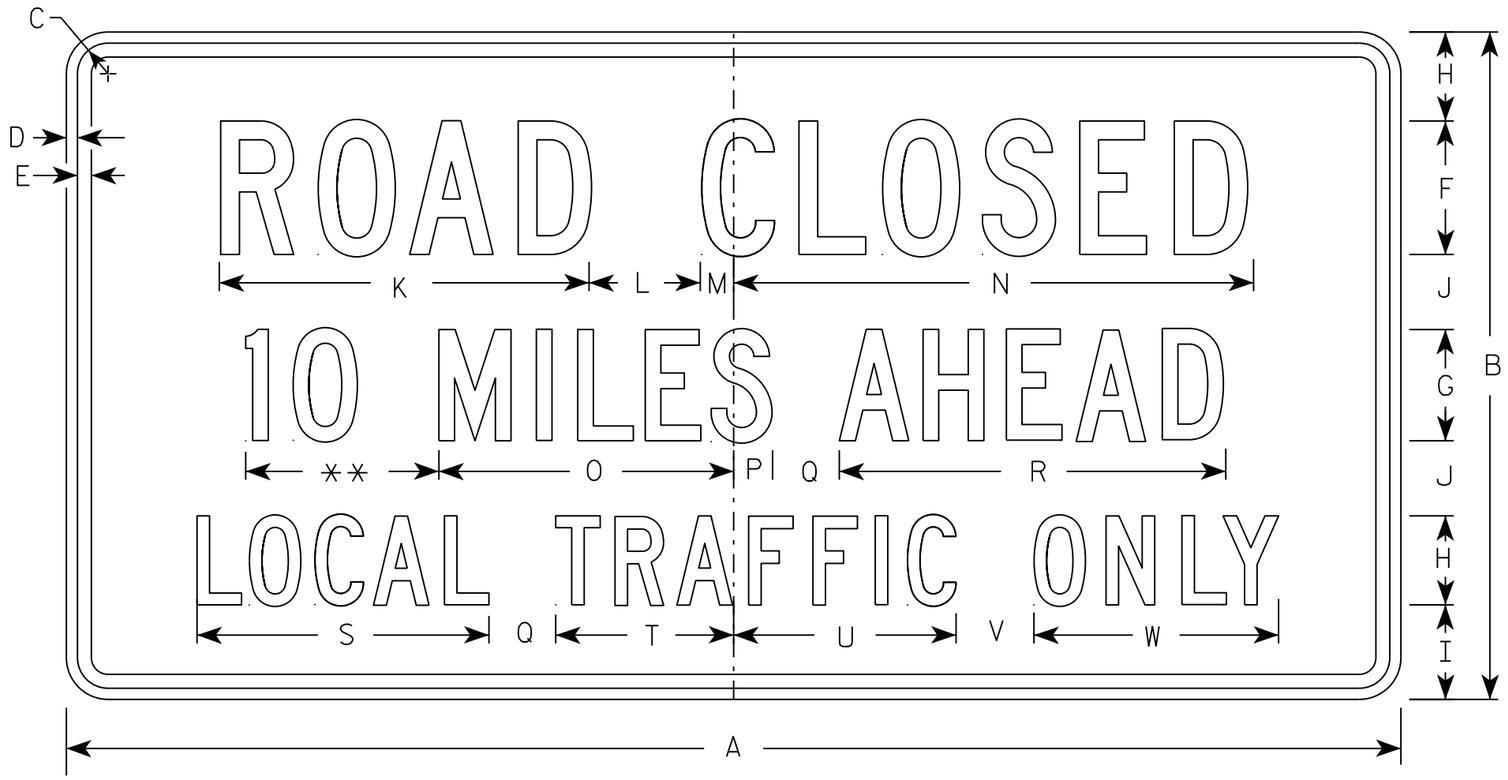
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 426	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

WISDOT/CADDS SHEET 42



R11-3

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.

** See Note 5

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

STANDARD SIGN
R11-3

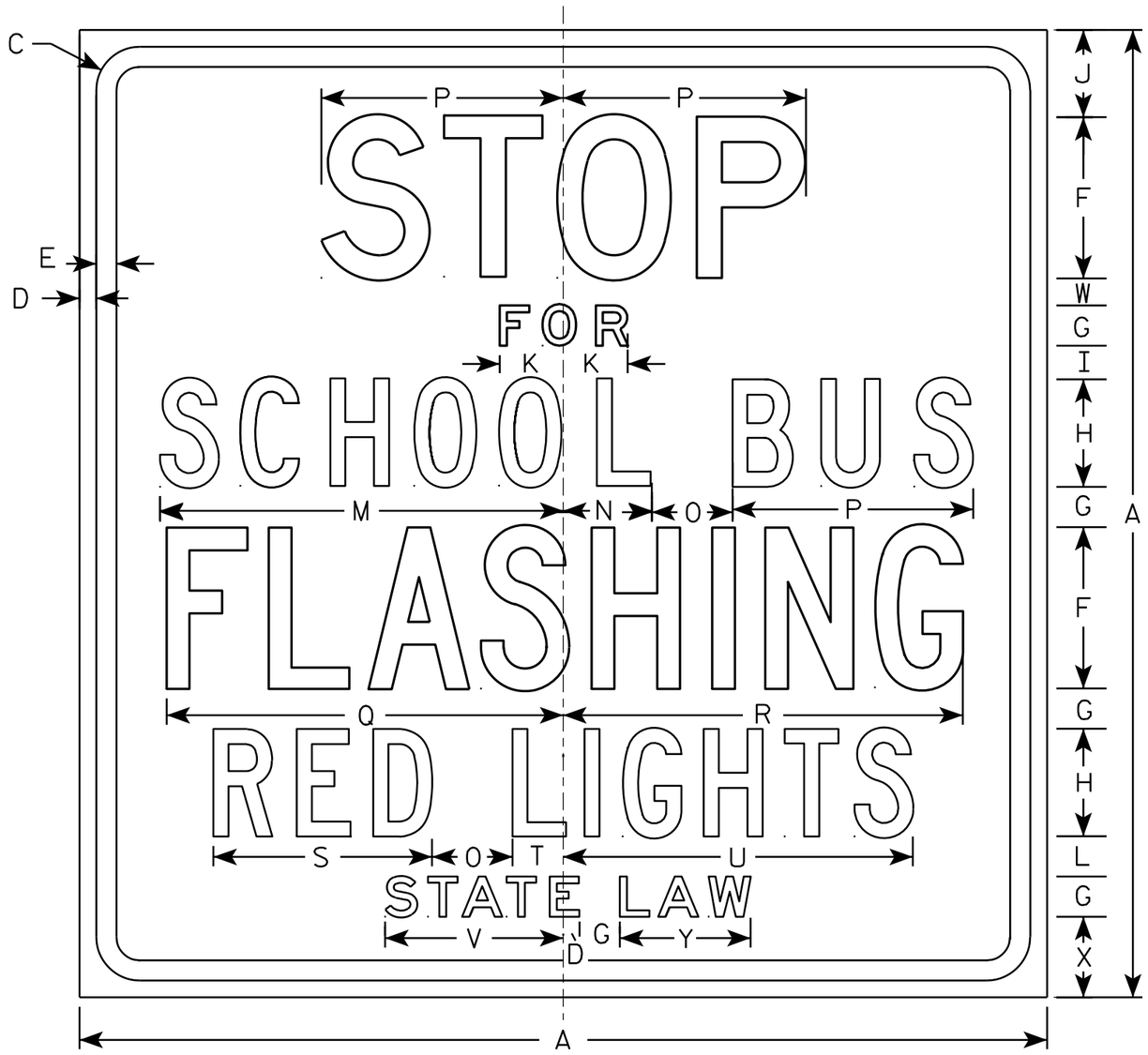
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/28/16 PLATE NO. R11-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R113.DGN PLOT DATE : 28-JUL-2016 16:25 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 6.810445:1.000000



R59-51

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - 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
   Lines 2 & 6 are Series E
   Line 3, 4 & 5 are Series C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
2M	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
3	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
4	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
5																											

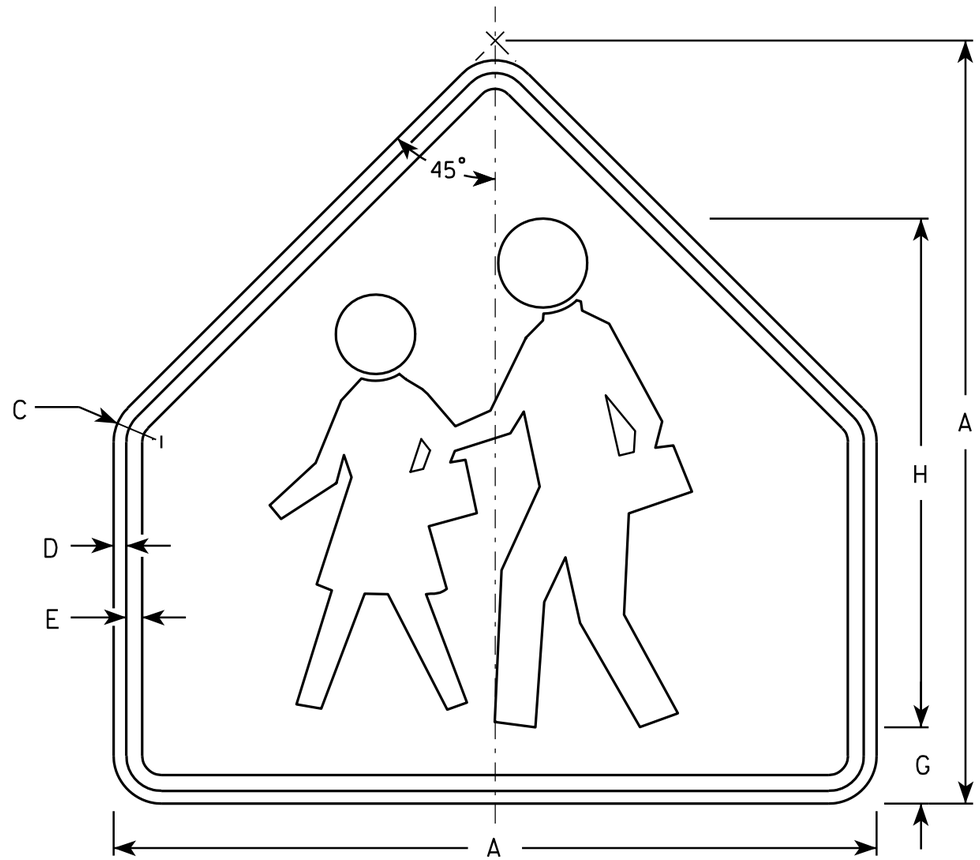
STANDARD SIGN
R59-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/30/11 PLATE NO. R59-51.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 428 | E



S1-1

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

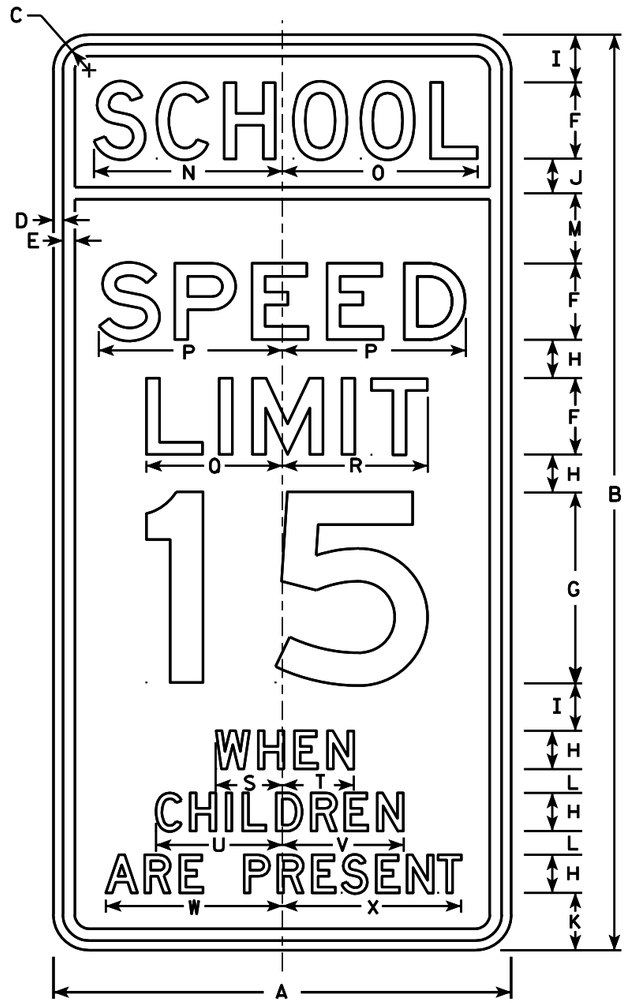
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 429	E



S4-51

NOTES

1. Sign is Type II - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. (See note 5).
2. Color:
   Background - See note 5
   Message - Black
3. Message Series - See note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Top panel (SCHOOL) background - Yellow Green -Type F Reflective.
   Lower panel background - White -Type H Reflective.
6. From top to bottom:
   Lines 1, 5, 6 & 7 are series D
   Lines 2, 3 & 4 are series E
7. Line 4 substitute appropriate numerals and adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 1200 mm
3	900 mm X 1800 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	48	1 3/8	1/2	5/8	4	10	2	2 1/2	1 3/4	3	1 1/4	3 3/4	9 7/8	10 1/4	9 5/8	7 1/8	7 5/8	3 1/2	3 3/8	6 5/8	6 3/8	9 1/4	9 3/8			8.00	0.72
3	36	72	2 1/4	3/4	1	6	15	3	3 3/4	2 3/4	4 1/2	1 7/8	5 1/2	15	15 1/4	14 1/2	11 1/4	11 1/2	5 1/2	5 3/4	10	9 3/4	14	14 1/8			18.00	1.62
4																												
5																												

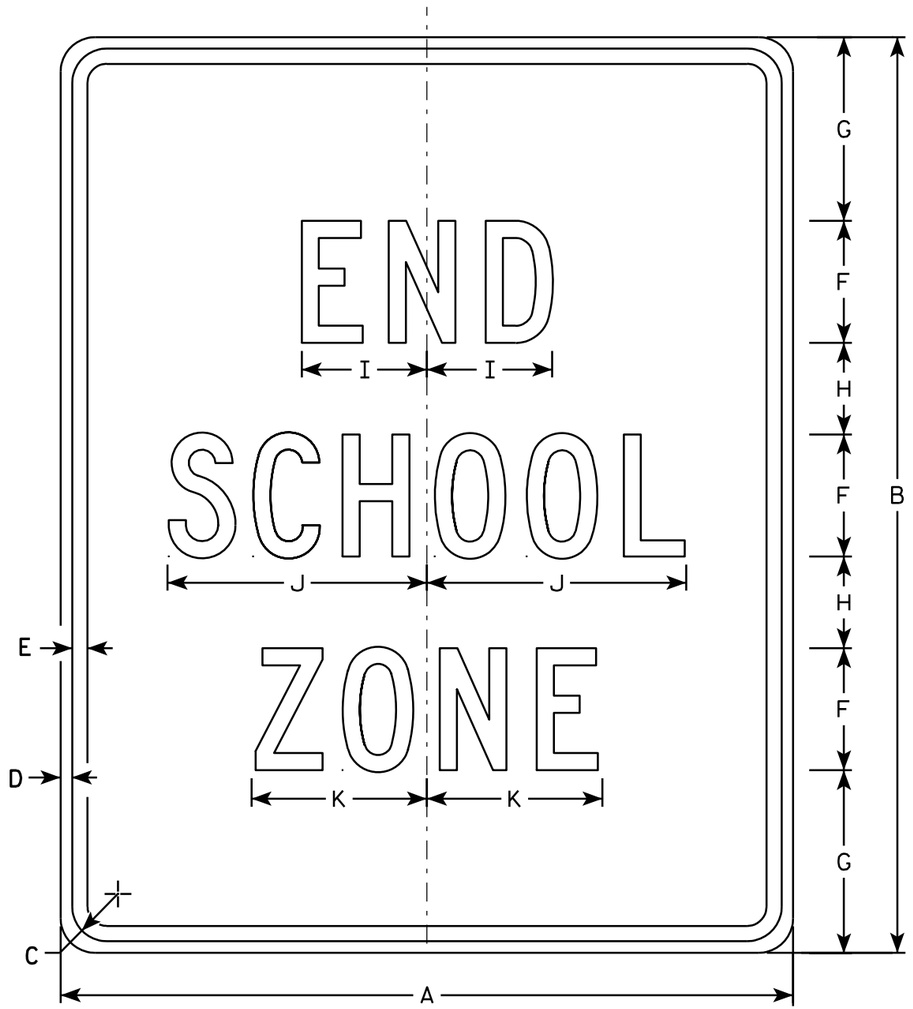
STANDARD SIGN
S4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/26/10 PLATE NO. S4-51.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 430	E



S5-2

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	30	1 1/8	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
3	36	42	1 5/8	5/8	3/4	6	7	5	6 1/8	12 5/8	8 5/8																10.5
4																											
5																											

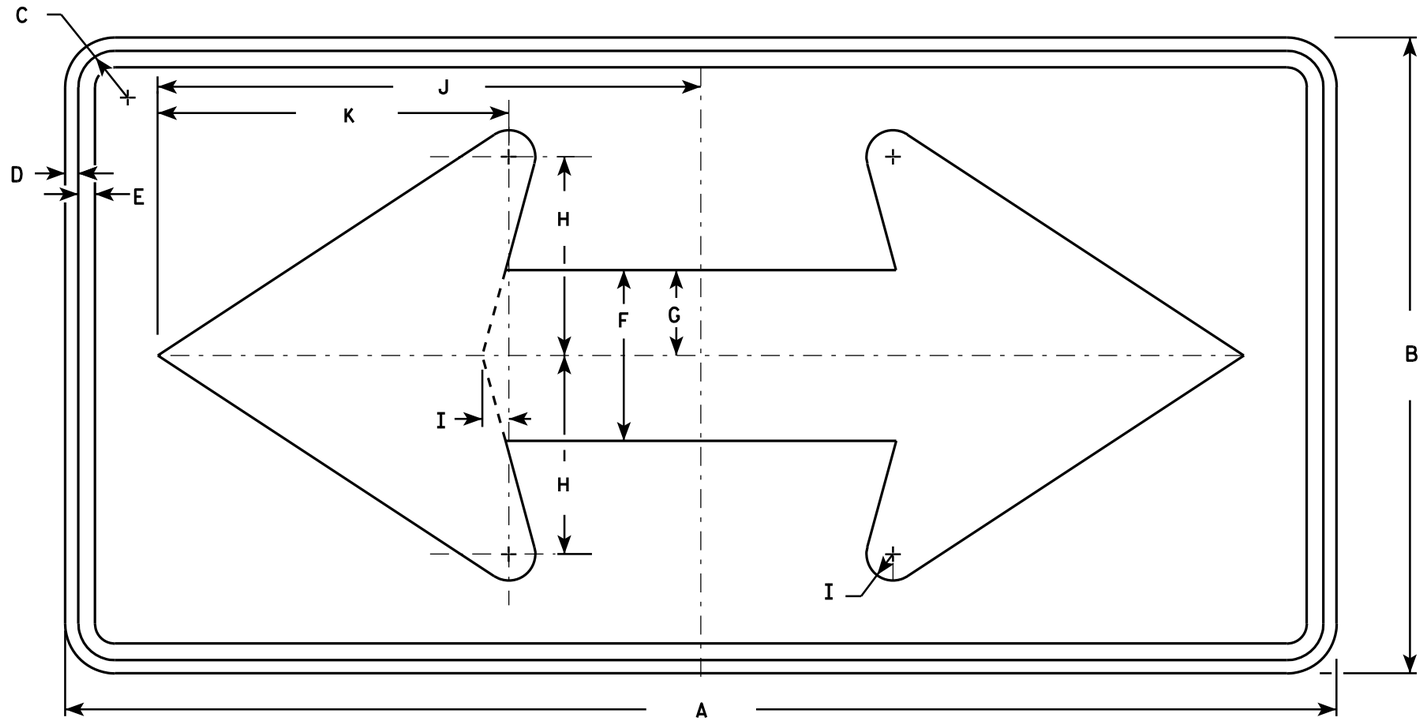
STANDARD SIGN
S5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/8/11 PLATE NO. S5-2.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 431 | E



W1-7

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

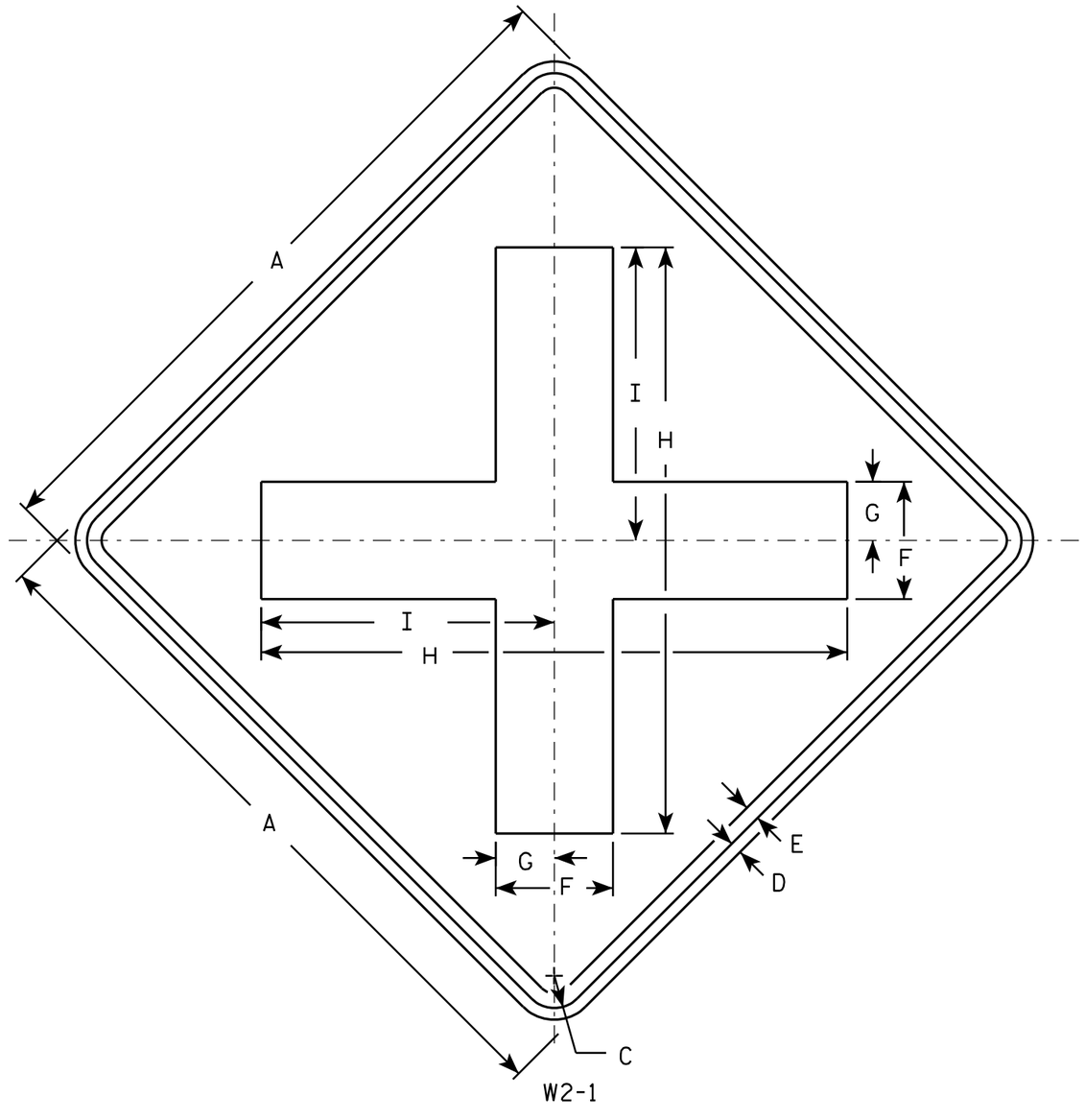
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 432 | E



NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4	2	20	10																		4.0
2S	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3	30	15																		9.0
4	48		2 1/4	3/4	1	8	4	40	20																		16.0
5																											

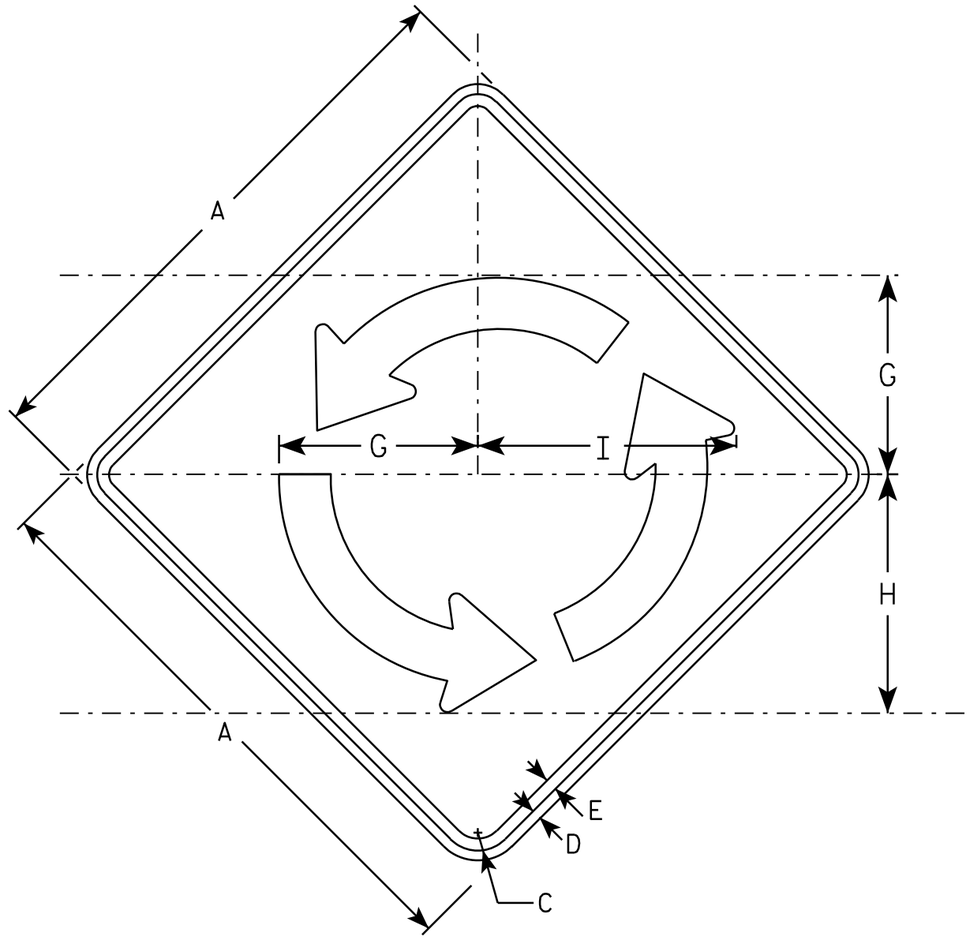
STANDARD SIGN
W2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-1.9

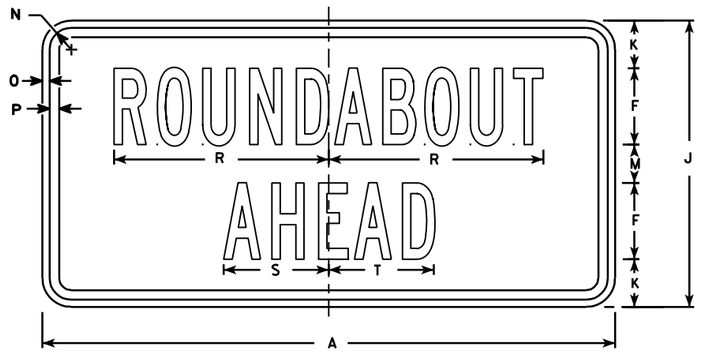
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 433	E



W2-6

NOTES

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



W2-6P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	W2-6 Area sq. ft.	W2-6P Area sq. ft.
1																										
2S	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
2M	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
3	36		1 5/8	5/8	3/4	5	12 1/2	15	16 1/4	18	2 5/8		2 3/4	1 1/8	3/8	1/2		14	7	6 3/4					9.00	4.50
4	48		2 1/4	3/4	1	6	16 5/8	20	16 1/4	24	4 3/8		3 5/8	1 3/8	1/2	5/8		17	8 1/4	8 1/4					16.0	8.0
5																										

STANDARD SIGN
W2-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/29/12 PLATE NO. W2-6.5

PROJECT NO:

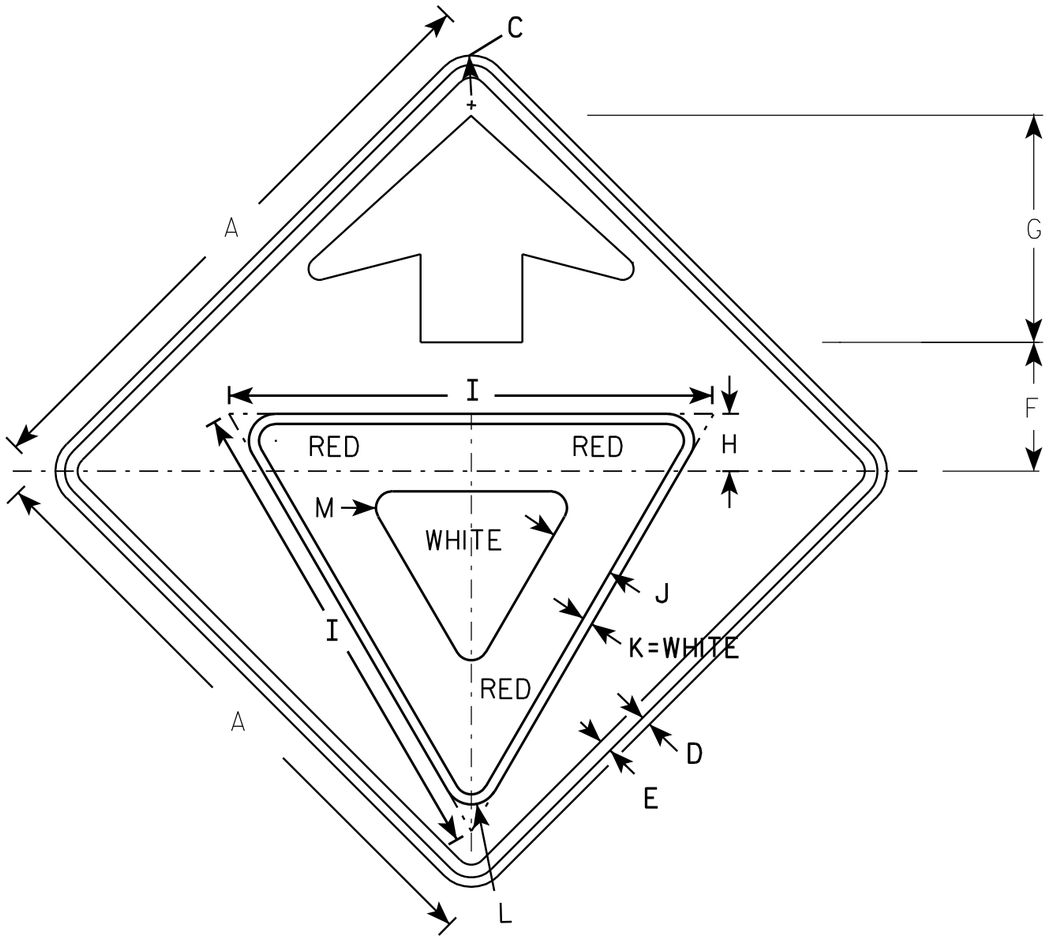
SHEET NO: 434 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W26.DGN PLOT DATE : 29-JUN-2012 10:15 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

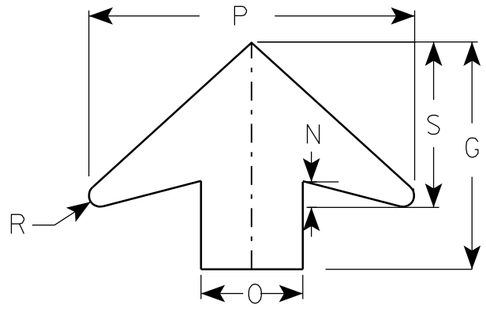
7



W3-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

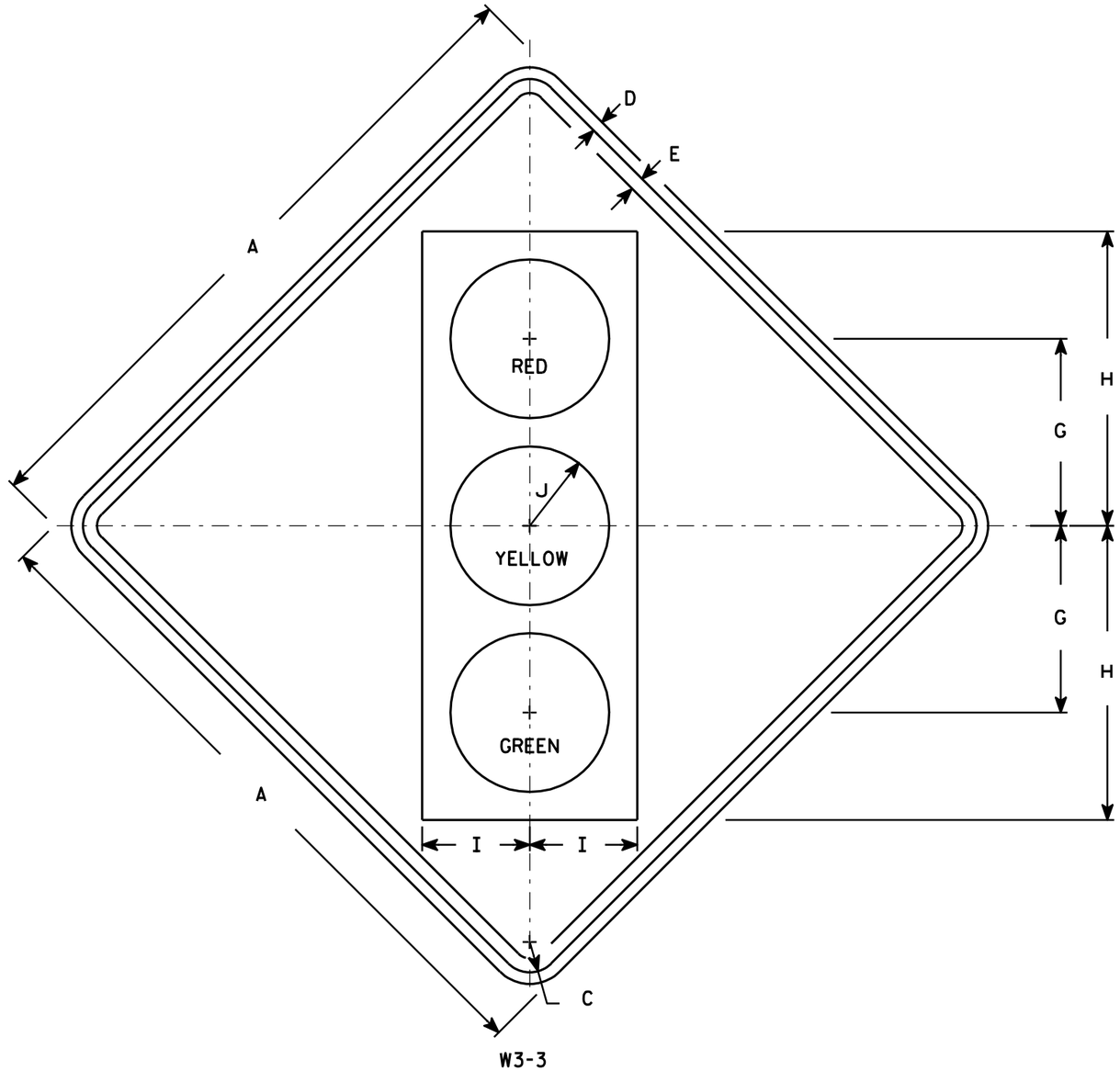
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

PROJECT NO:

SHEET NO: 435 E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN
W3-3

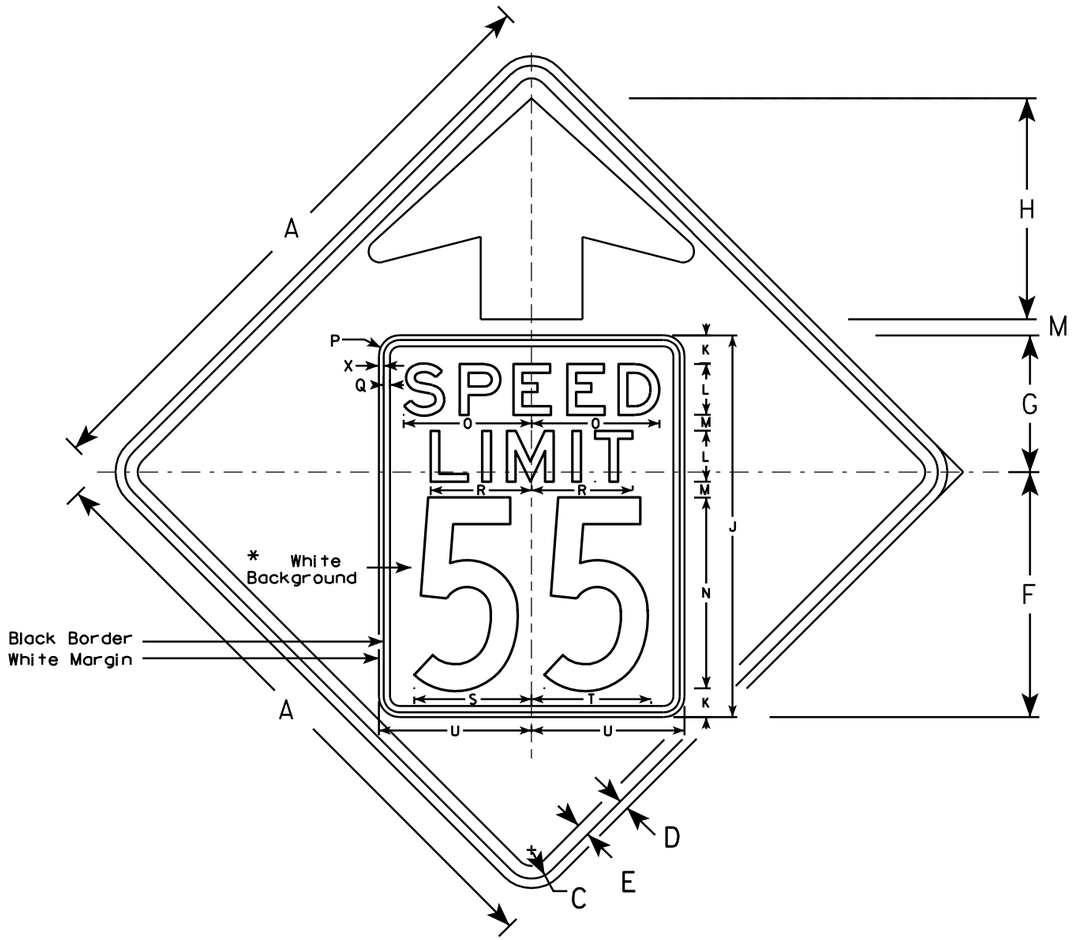
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 436 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W33.DGN PLOT DATE : 07-JUN-2010 13:07 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 7.448805:1.000000
WISDOT/CADDS SHEET 42

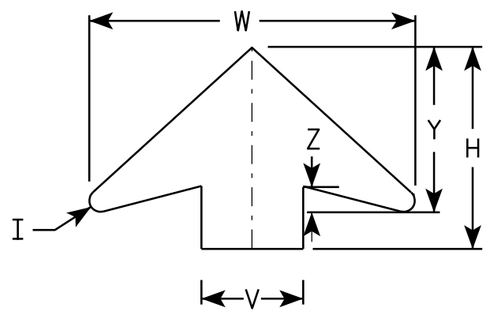


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

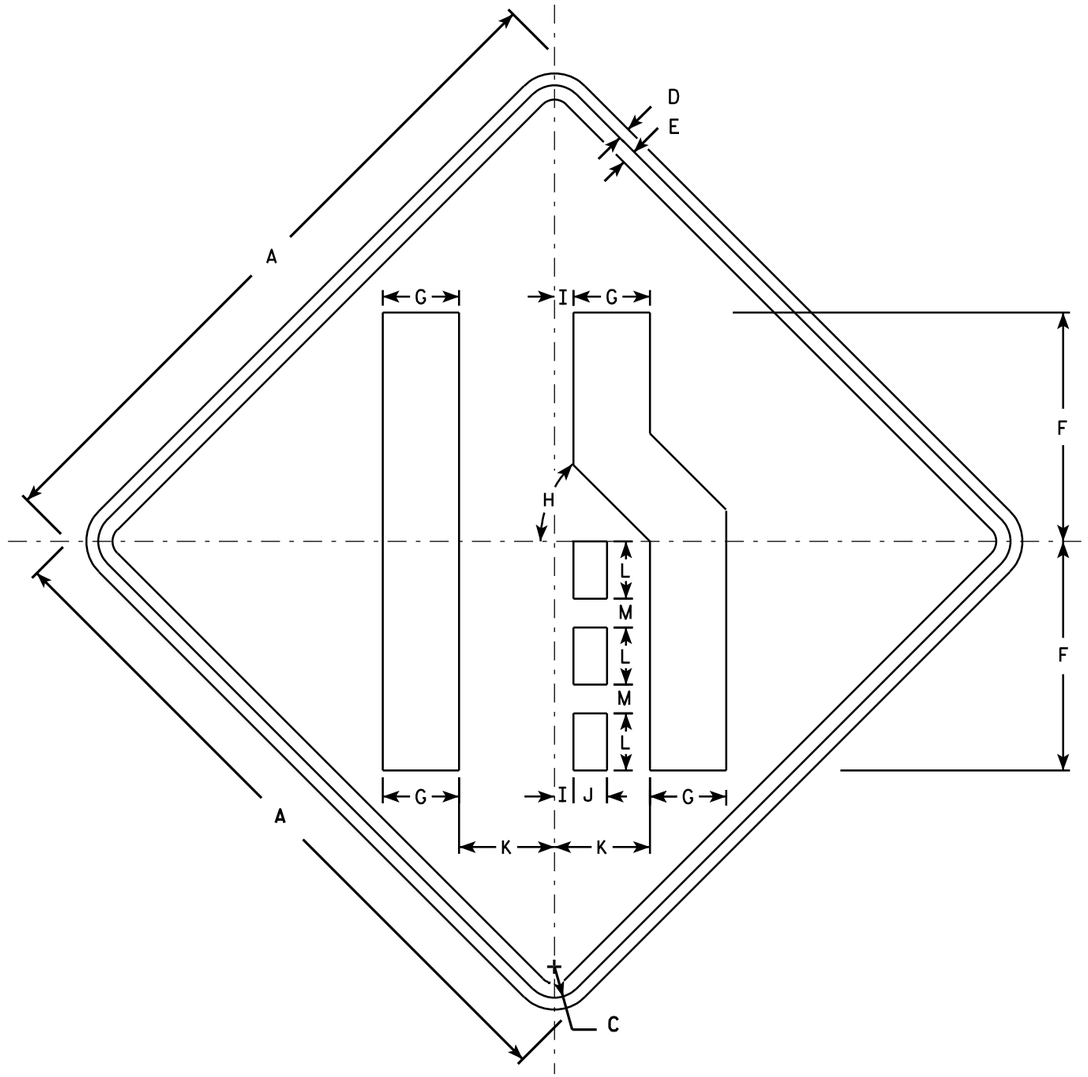
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 437 E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

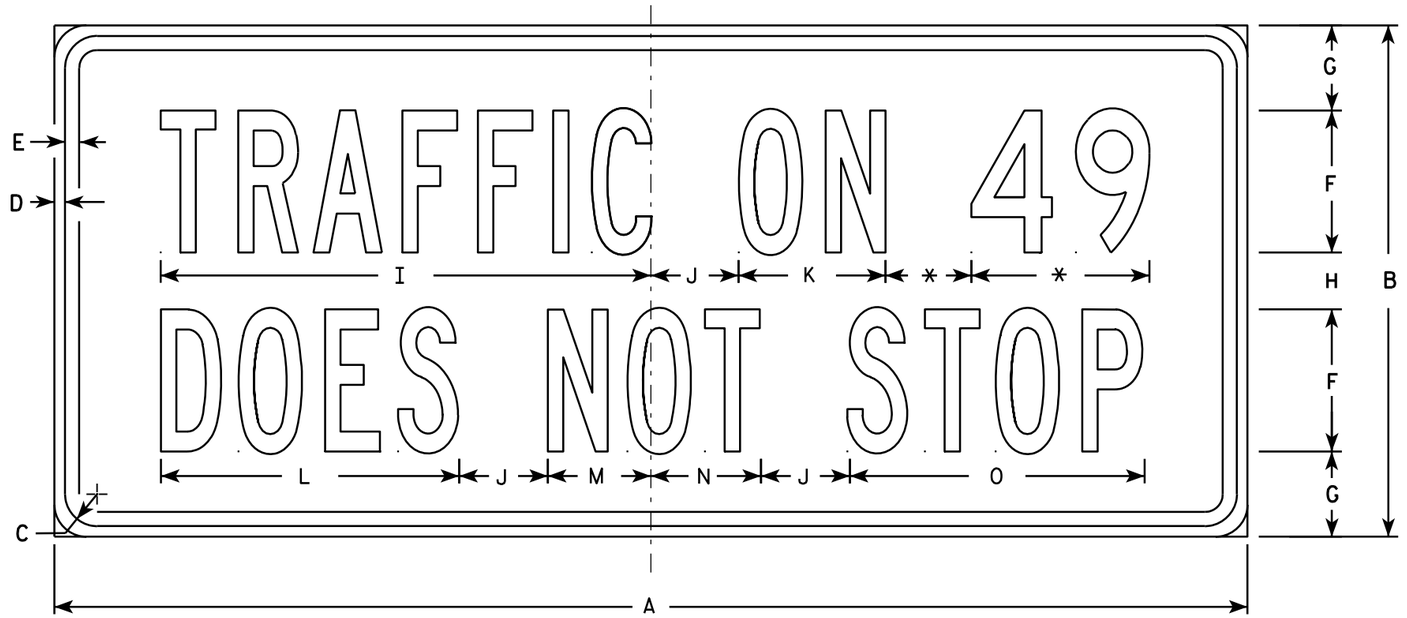
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 438 E



W4-4C

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - B (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. Highway Number usually Series D. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

* VARIES

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	2 1/4	1 1/2	10 3/8	1 1/2	3 1/8	6 1/4	2 1/4	2 1/4	6 1/4												2.0
2M	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	10 3/8	1 1/2	3 1/8	6 1/4	2 1/4	2 1/4	6 1/4												2.0
3	36	15	1 1/8	3/8	1/2	4	2 5/8	1 3/4	13 7/8	2 3/8	4 1/4	8 3/8	3 1/8	3 1/8	8 3/8												3.75
4	42	18	1 1/8	3/8	1/2	5	3	2	17 1/4	3 1/8	5 1/8	10 1/2	3 7/8	3 7/8	10 3/8												5.25
5																											

STANDARD SIGN
W4-4C

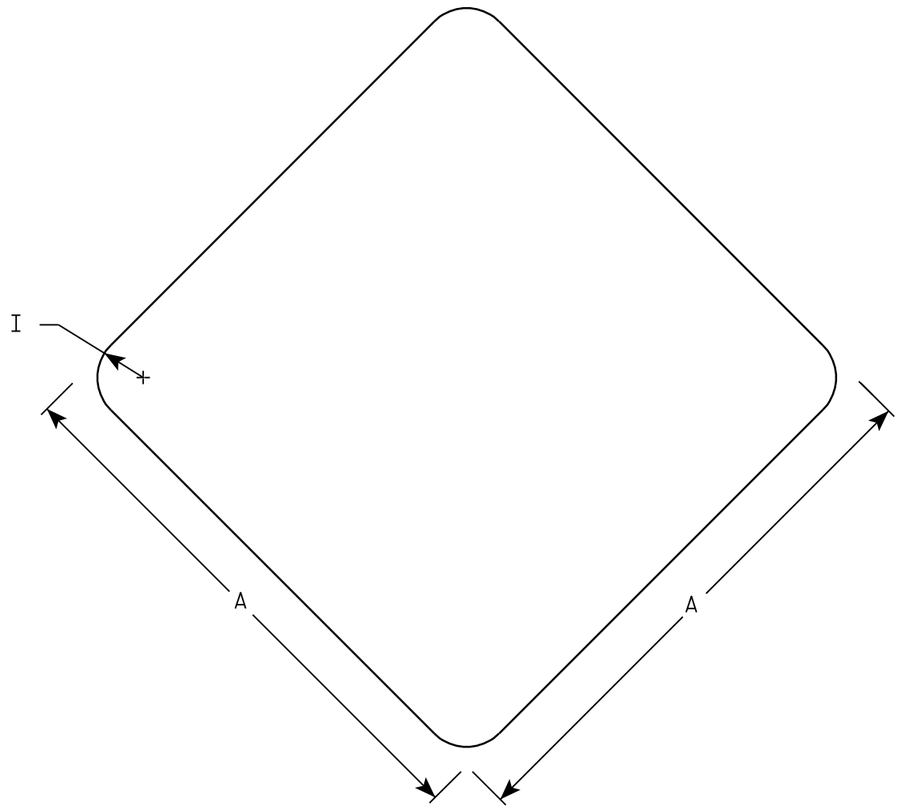
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-4.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 439 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W44C.DGN PLOT DATE : 12-MAR-2013 11:39 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.334037:1.000000
WISDOT/CADDS SHEET 42



W5-54

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

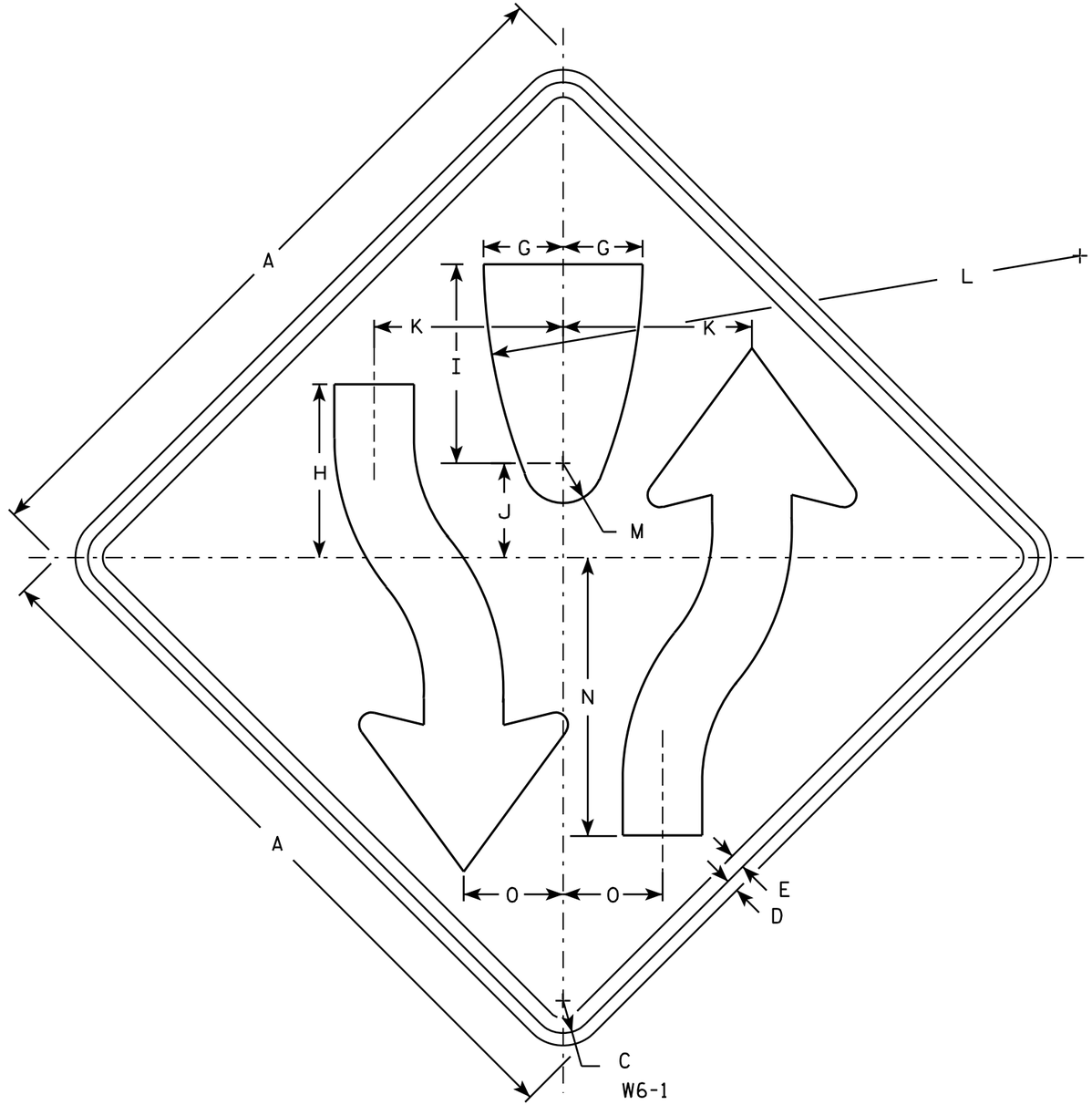
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

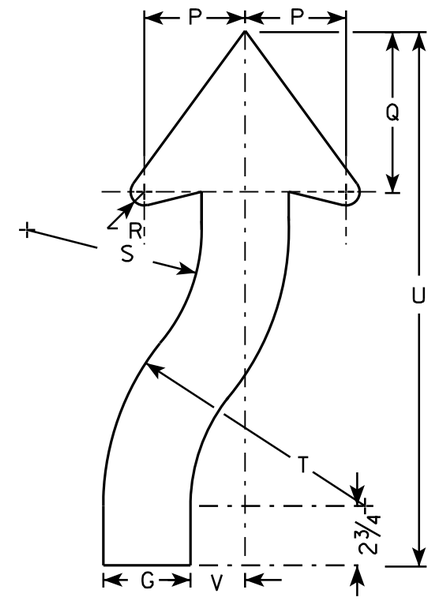
DATE 11/3/10 PLATE NO. W5-54.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 440 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

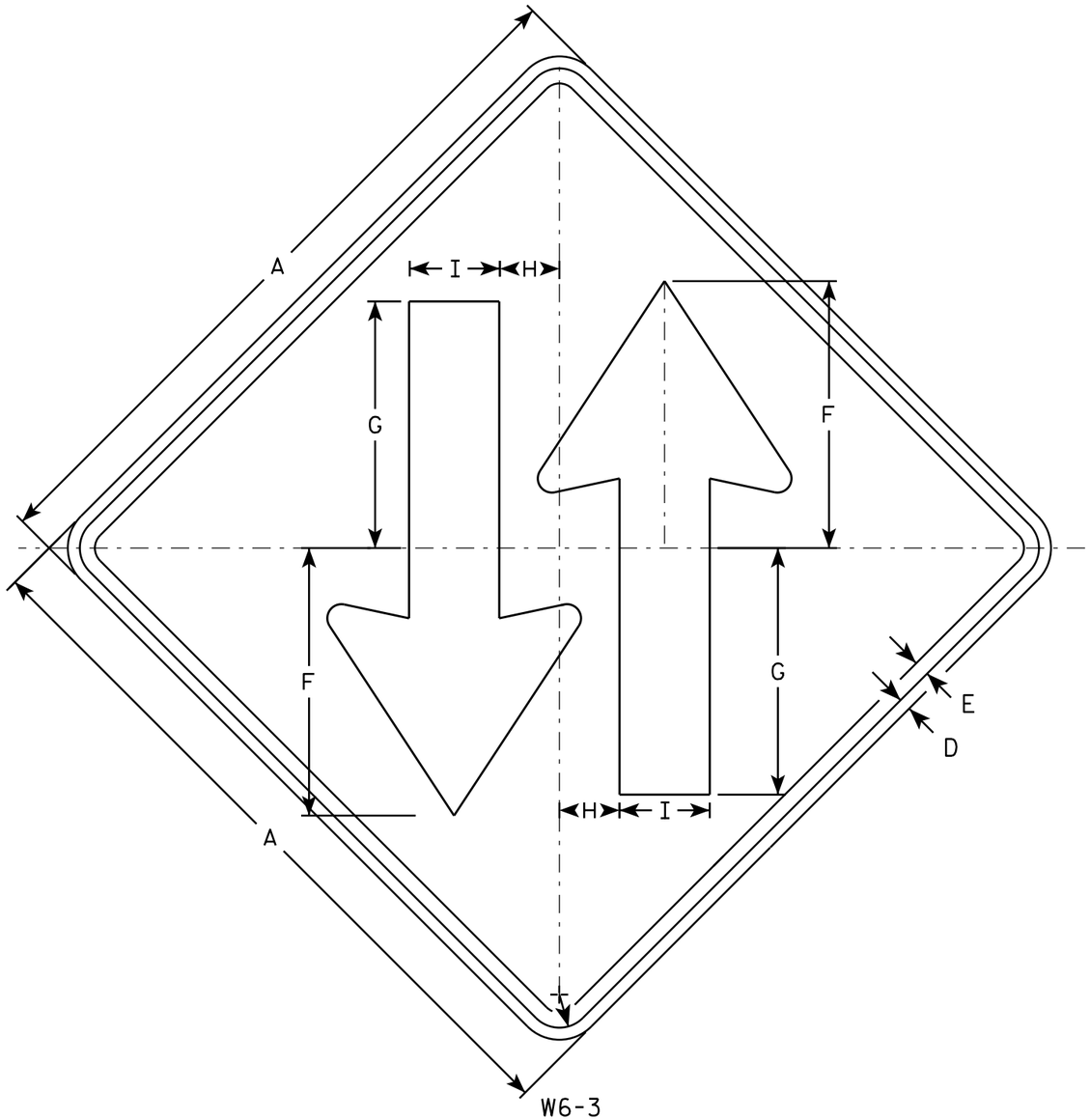
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 441	E

7

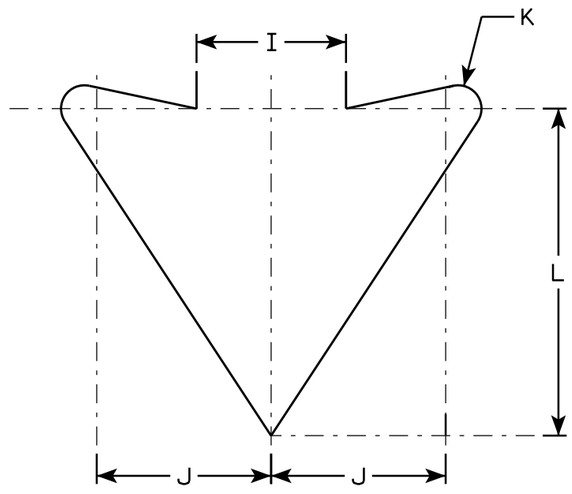
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W61.DGN PLOT DATE : 12-MAR-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946657:1.000000
WISDOT/CADDS SHEET 42



W6-3

NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

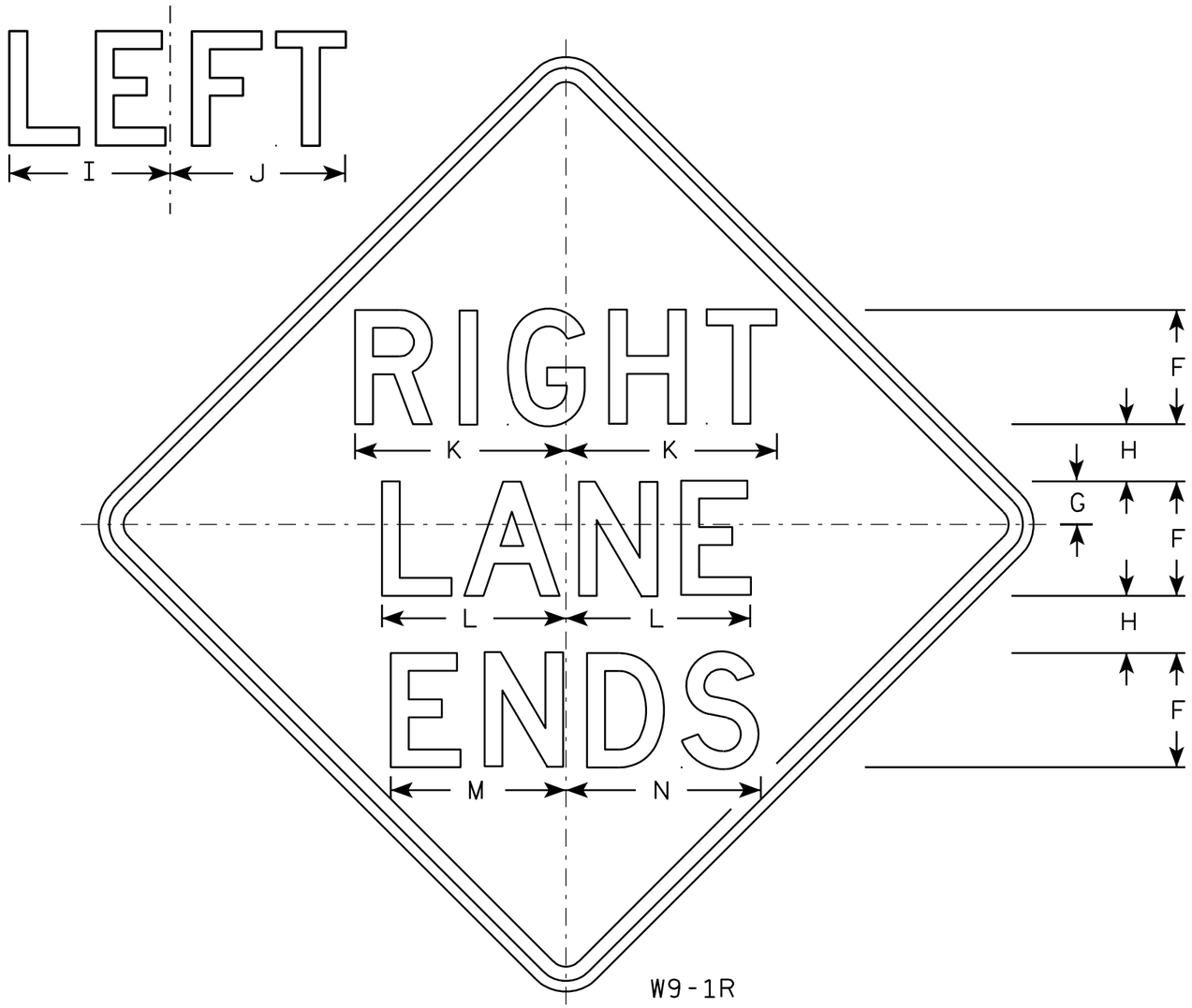
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE W6-3.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W63.DGN PLOT DATE : 10-MAR-2016 14:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000
WISDOT/CADDS SHEET 42



W9-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. W9-1L same as W9-1R except the word Left replaces Right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

STANDARD SIGN
W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 03/18/13 PLATE NO. W9-1.8

PROJECT NO:

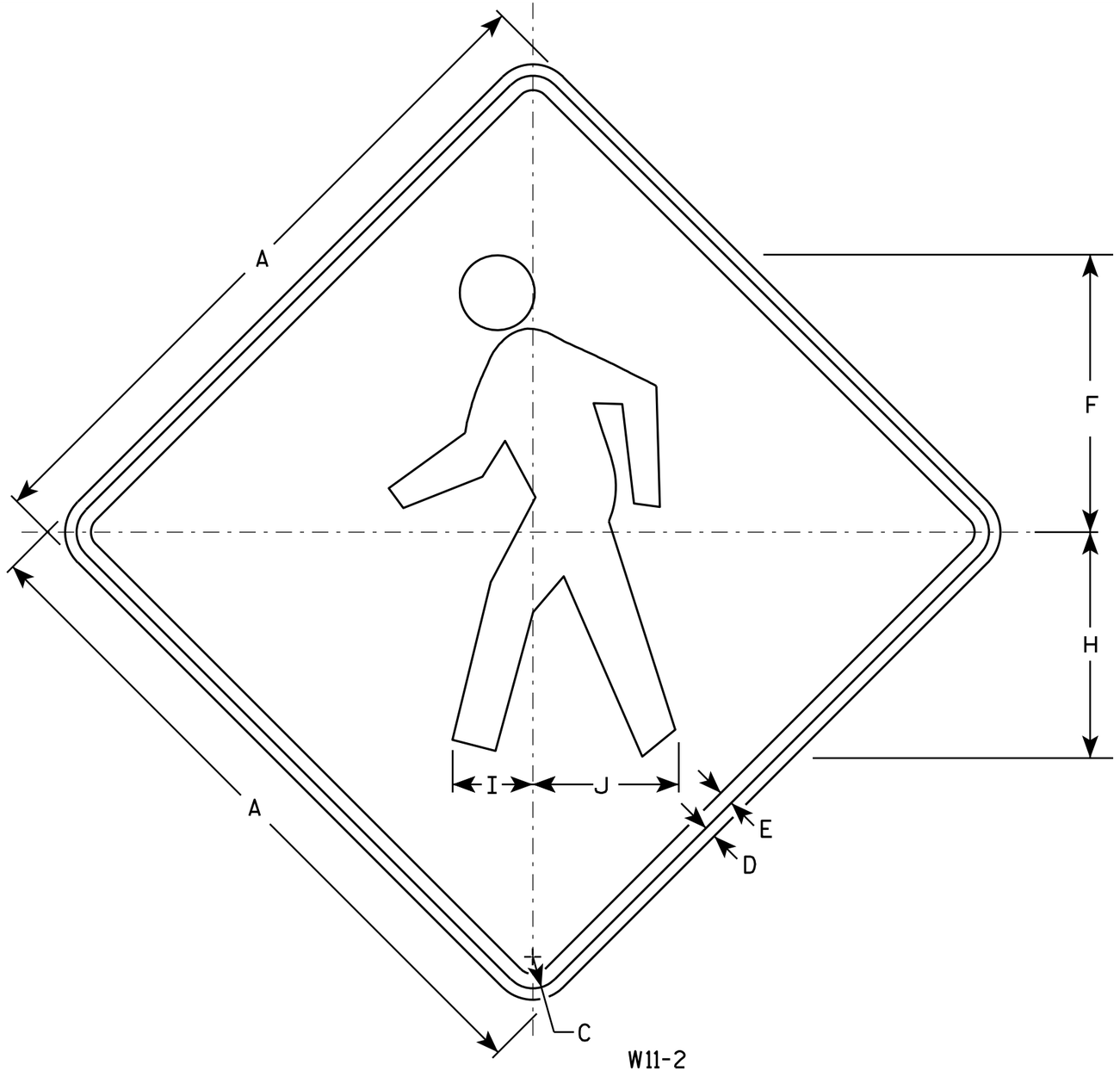
SHEET NO: 443 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W91.DGN PLOT DATE : 18-MAR-2013 11:42 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

7



W11-2

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

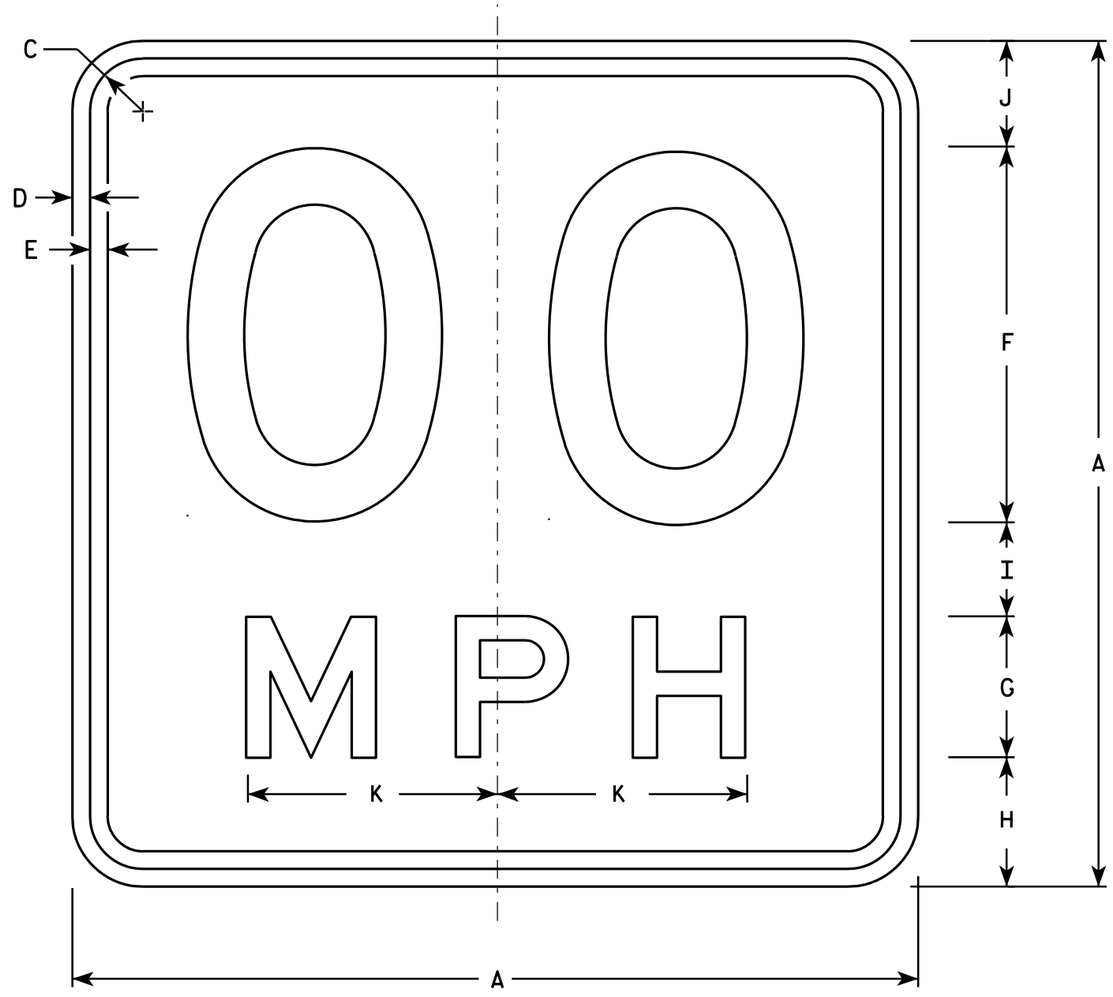
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W11-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 444	E



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

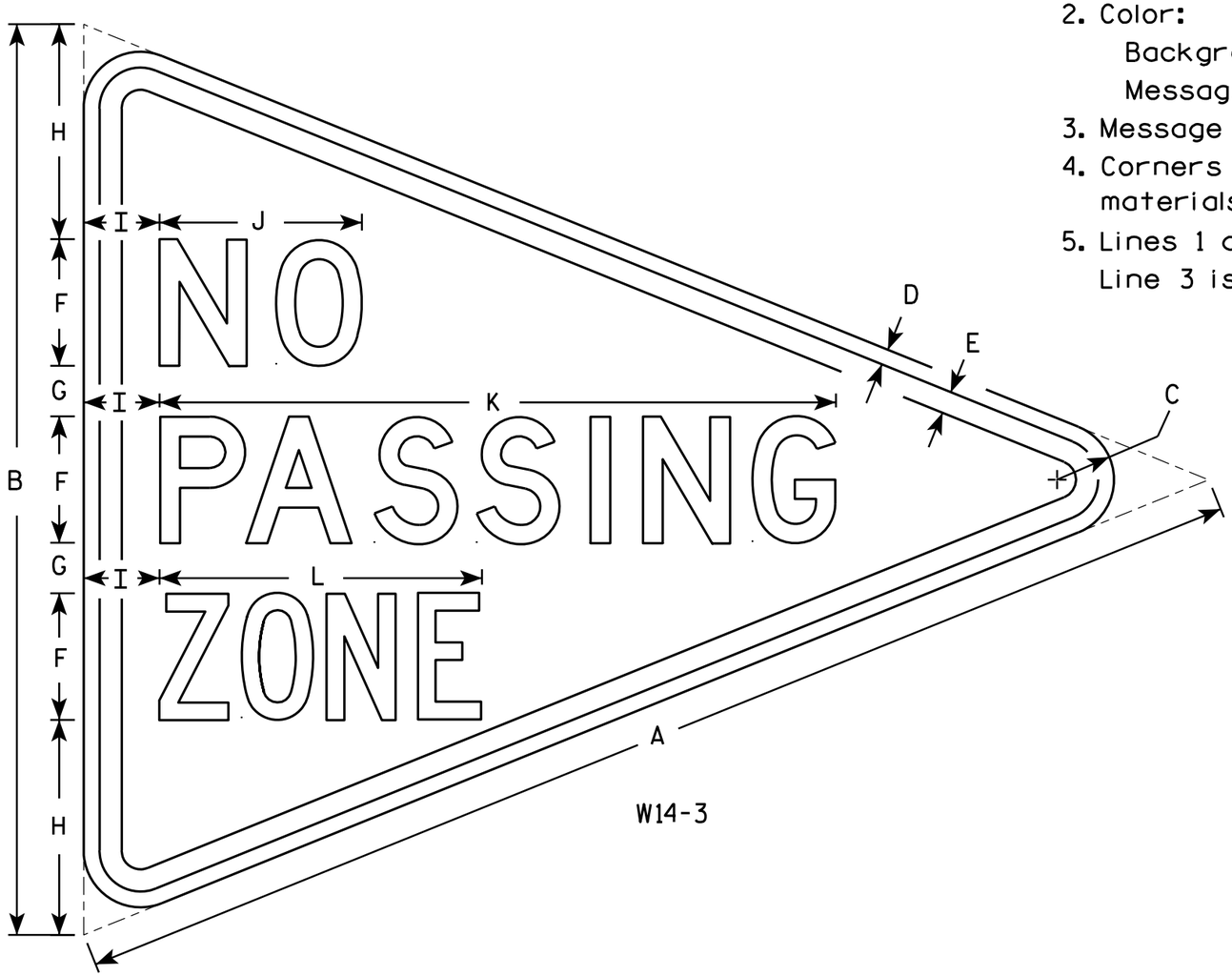
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 445 | E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See note 5
4. Corners and borders shall be rounded on all base materials for this sign.
5. Lines 1 and 2 are Series D.
   Line 3 is series C.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

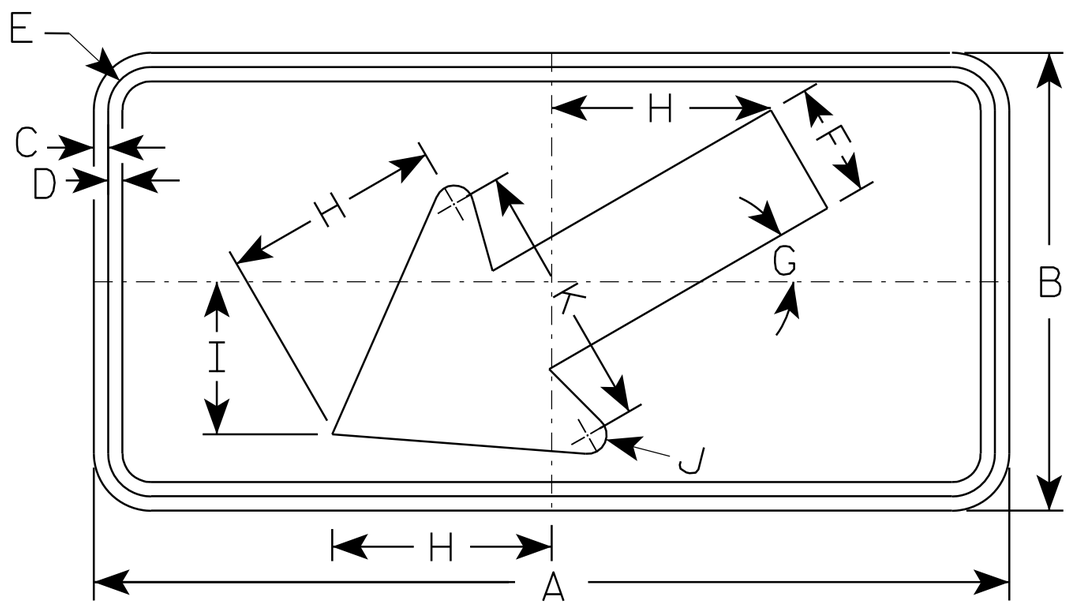
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 446	E



W16-7L

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W16-7R is the same as W16-L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4																											8
5																											8

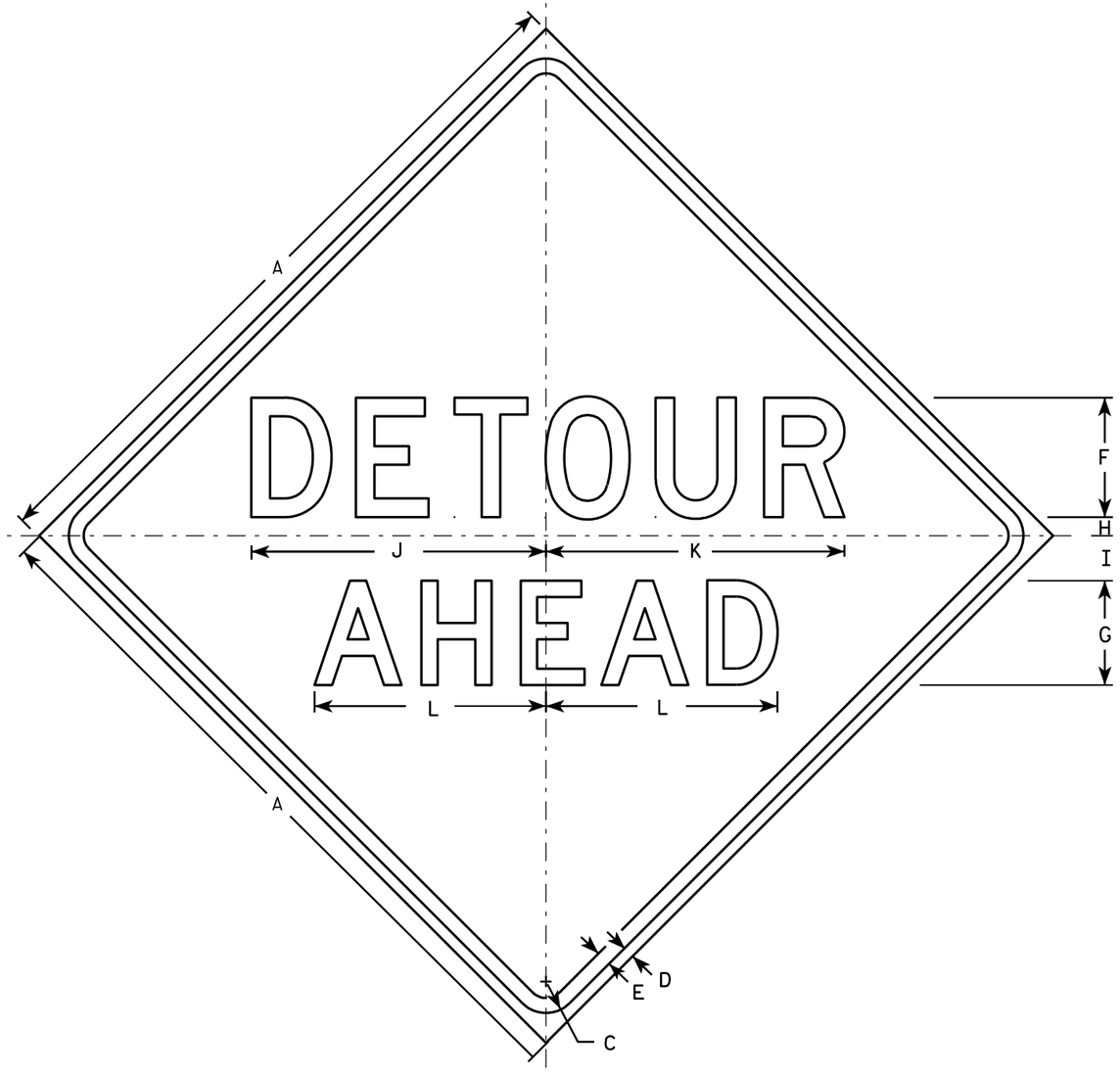
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

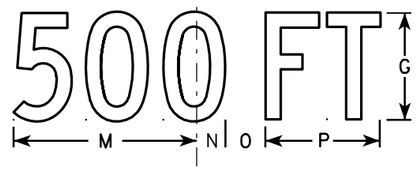
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. W16-7.5

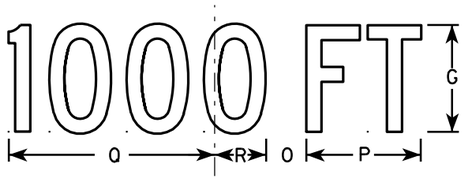
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 447	E



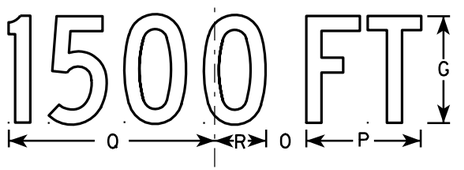
W20-2A



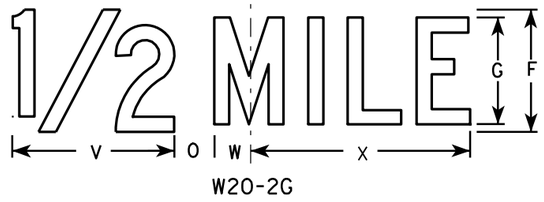
W20-2D



W20-2C



W20-2B



W20-2G

W20-2F

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

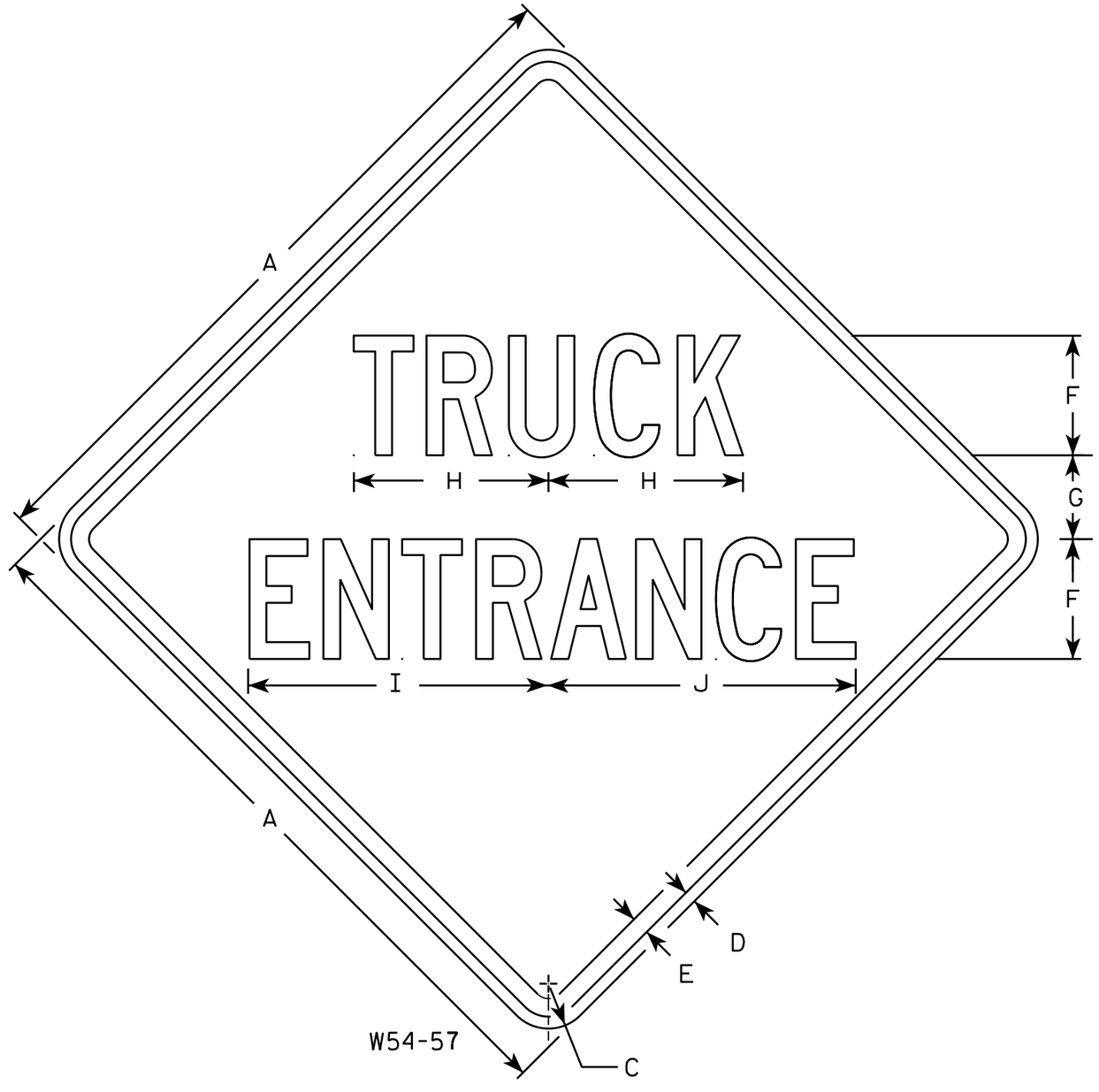
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 448	E



NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 3/8	1/2	5/8	5	3 1/2	8 1/8	12 1/2	12 7/8																	6.25
2M	36		1 5/8	5/8	3/4	6	4 1/4	9 5/8	15	15 3/8																	9.00
3	36		1 5/8	5/8	3/4	6	4 1/4	9 5/8	15	15 3/8																	9.00
4	48		2 1/4	3/4	1	8	5 1/2	13	20	20 5/8																	16.00
5																											

STANDARD SIGN
W54-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE W54-57.9

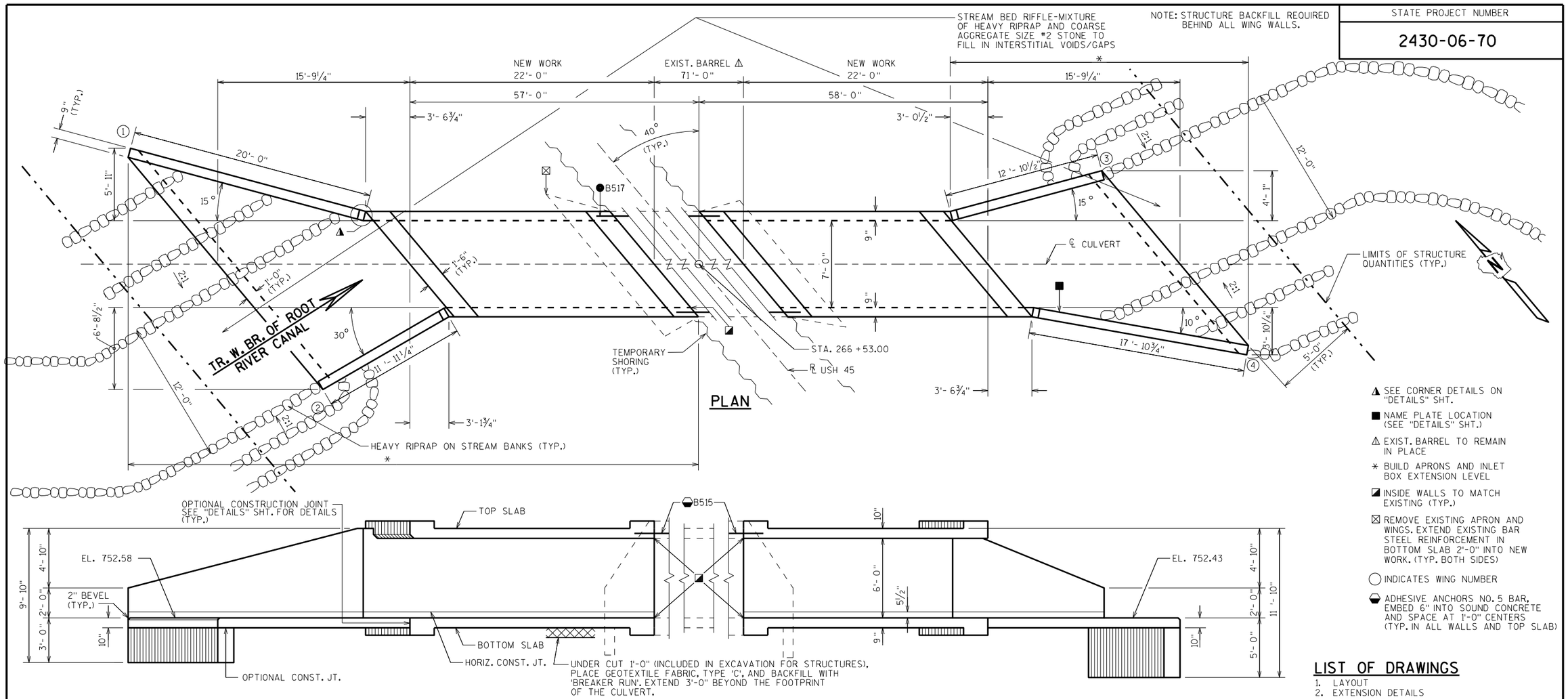
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W5457.DGN PLOT DATE : 27-APR-2016 10:05 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.594294:1.000000 WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER

2430-06-70

NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.



⚠ SEE CORNER DETAILS ON "DETAILS" SHT.

■ NAME PLATE LOCATION (SEE "DETAILS" SHT.)

⚠ EXIST. BARREL TO REMAIN IN PLACE

* BUILD APRONS AND INLET BOX EXTENSION LEVEL

◪ INSIDE WALLS TO MATCH EXISTING (TYP.)

⊠ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BAR STEEL REINFORCEMENT IN BOTTOM SLAB 2'-0" INTO NEW WORK. (TYP. BOTH SIDES)

◯ INDICATES WING NUMBER

⬬ ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS (TYP. IN ALL WALLS AND TOP SLAB)

LIST OF DRAWINGS

1. LAYOUT
2. EXTENSION DETAILS
3. APRON DETAILS
4. DETAILS

STRUCTURE DESIGN CONTACTS:

NICK RICE (608) 266-5092

AARON BONK (608) 261-0261

DESIGN DATA

LIVE LOAD:

DESIGN LOADING; HL-93
INVENTORY RATING FACTOR: RF=1.05
OPERATING RATING FACTOR: RF=1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 255 (KIPS)

EARTHLOAD: DESIGNED FOR 0.5 FT. TO 2.0 FT. OF FILL.

MATERIAL PROPERTIES:

CONCRETE MASONRY, GRADE A-FA — f'_c = 3500 P.S.I.

HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

HYDRAULIC DATA

100 YEAR FREQUENCY

Q_{100} = 250 C.F.S.
VEL. = 8.9 F.P.S.
$HW._{100}$ = EL. 759.1
DRAINAGE AREA = 1.28 SQ. MI.
ROADWAY OVERTOPPING = N/A
SCOUR CRITICAL CODE = 8

2 YEAR FREQUENCY

Q_2 = 65 C.F.S.
$HW._2$ = EL. 756.6

TRAFFIC VOLUME

USH 45
A.D.T. = 4,300 (2033)
R.D.S. = 60 M.P.H.

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 266+53.00	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-51-23	1	LS
209.0300.S	BACKFILL COARSE AGGREGATE SIZE NO. 2	2	CY
210.2500	BACKFILL STRUCTURE TYPE B	266	TONS
311.0115	BREAKER RUN	50	CY
502.4205	ADHESIVE ANCHORS NO. 5 BAR	42	EACH
504.0100	CONCRETE MASONRY CULVERTS	64	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	3770	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	5150	LB
511.1200	TEMPORARY SHORING C-51-23	420	SF
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	20	SY
516.0600.S	SHEET MEMBRANE WATERPROOFING	56	SY
606.0300	RIPRAP HEAVY	28	CY
645.0105	GEOTEXTILE TYPE C	170	SY
645.0120	GEOTEXTILE TYPE HR	65	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE SHEET MEMBRANE WATERPROOFING ON ENTIRE TOP SLAB BETWEEN HEADERS AND EXTEND 1'-0" BELOW THE TOP OF THE TOP SLAB AT THE OUTSIDE WALLS.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DEVELOPMENT SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS ON CHAPTER 36 STANDARDS OF THE CURRENT WISC. DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 10/24/16
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-51-23

USH 45 OVER TR. W. BR. OF ROOT RIVER CANAL

COUNTY	TOWN/CITY/VILLAGE
RACINE	YORKVILLE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
NAR	DFD	NAR	DFD

LAYOUT

SHEET 1 OF 4

450

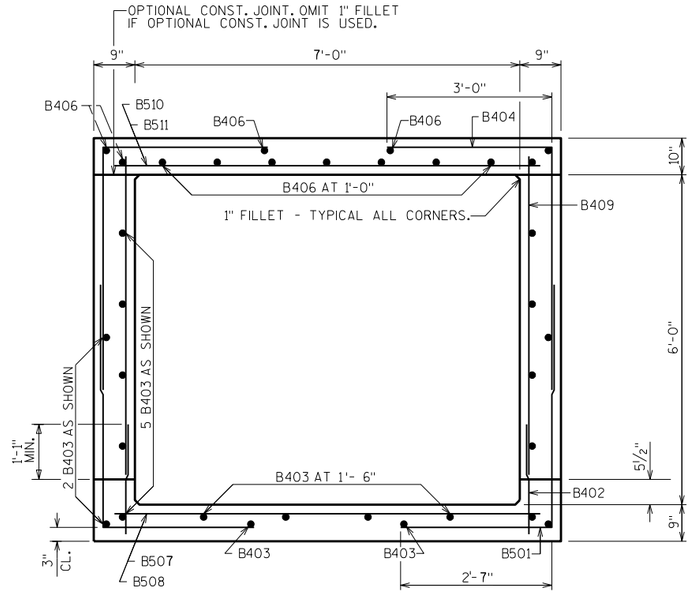
I.D. 2430-06-00A

DATE: OCT. 2016

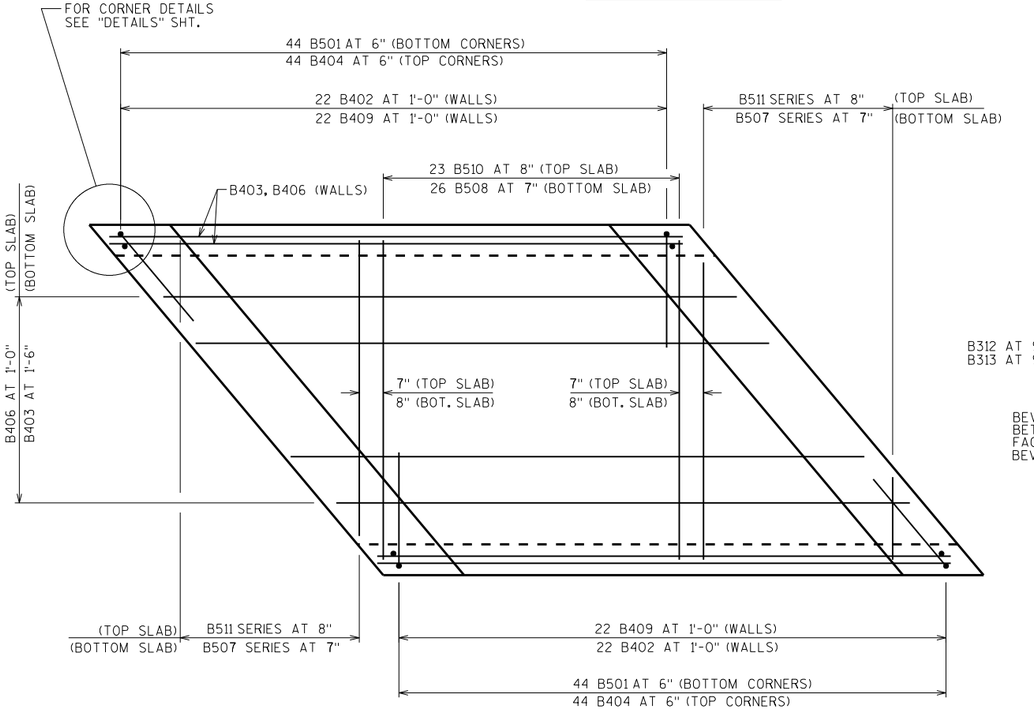
SCALE = 4

STATE PROJECT NUMBER

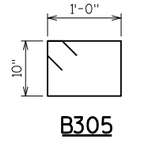
2430-06-70



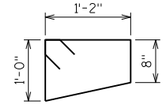
TYPICAL SECTION



PLAN VIEW OF PANEL



B305



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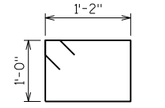


B313

BILL OF BARS

THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE.

THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

BILL OF BARS NUMBER REQUIRED INCLUDES BOTH THE INLET AND THE OUTLET EXTENSIONS.

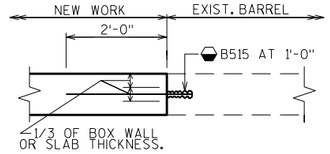
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		176	6-11	2-7	NO	BOTTOM CORNERS
B402		88	2-1	NO	NO	WALLS-DOWELS VERT.
B403		40	21-8	NO	NO	BOTTOM SLAB & WALL
B404	X	176	7-4	3-0	NO	TOP CORNERS
B305		60	4-1	YES	NO	BOTTOM STIRRUPS VERT.
B406	X	26	21-8	NO	NO	TOP SLAB
B507		32	5-1	NO	▲	BOTTOM SLAB TRANS.
B508		52	8-2	NO	NO	BOTTOM SLAB TRANS.
B409		88	6-2	NO	NO	WALLS VERT.
B510	X	46	8-2	NO	NO	TOP SLAB TRANS.
B511	X	28	5-0	NO	▲	TOP SLAB TRANS.
B312	X	15	4-6	YES	NO	HEADER STIRRUPS VERT. INLET
B313	X	45	4-9	YES	NO	HEADER STIRRUPS VERT.
B714	X	48	10-7	NO	NO	HEADERS HORIZ.
B515	X	42	2-6	NO	NO	VERT. CONST. JOINT

▲ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

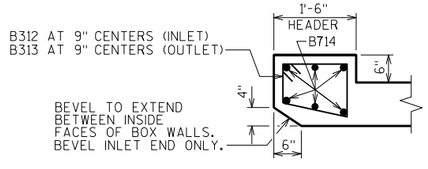
BAR SERIES TABLE

MARK	NO. REQD.	LENGTH
B507	4 SERIES OF 8	2-8 TO 7-6
B511	4 SERIES OF 7	2-7 TO 7-4

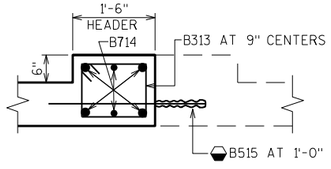
BUNDLE AND TAG EACH SERIES SEPARATELY.



VERTICAL CONSTRUCTION JOINT

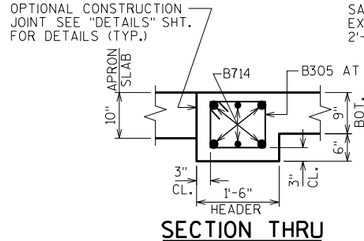


SECTION THRU TOP HEADER

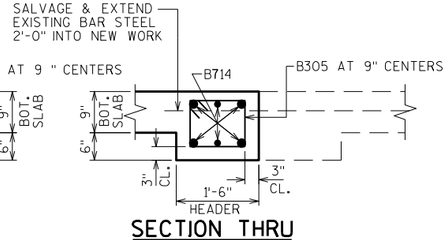


SECTION THRU TOP HEADER

(AT EXISTING HEADER)



SECTION THRU BOTTOM HEADER



SECTION THRU BOTTOM HEADER

(AT EXISTING HEADER)

⬭ ADHESIVE ANCHORS NO. 5 BAR, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS (TYP. IN ALL WALLS AND TOP SLAB)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-51-23

DRAWN BY NAR | PLANS CK'D. DFD

EXTENSION DETAILS

SHEET 2

451

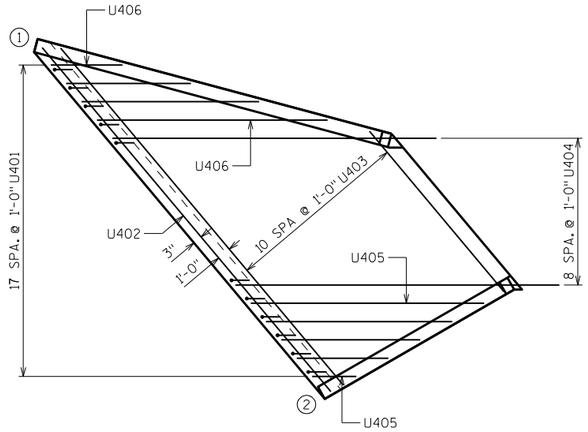
SCALE = 4

8

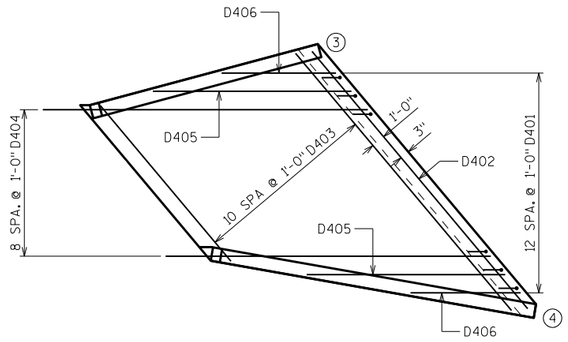
8

STATE PROJECT NUMBER

2430-06-70

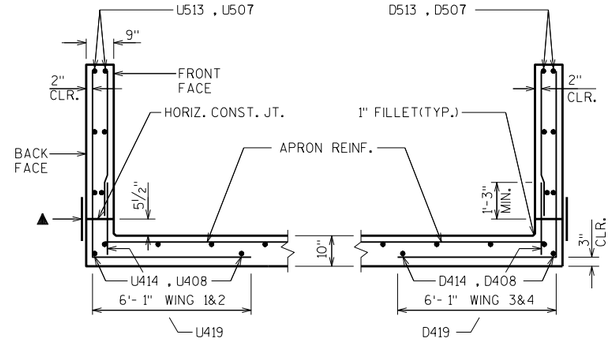


INLET APRON PLAN



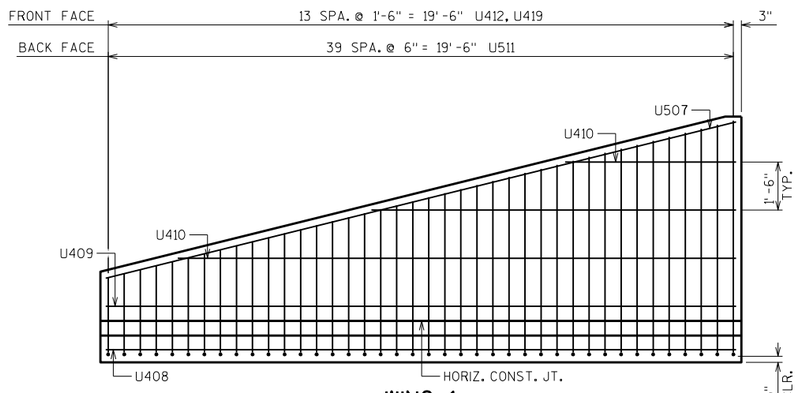
OUTLET APRON PLAN

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).

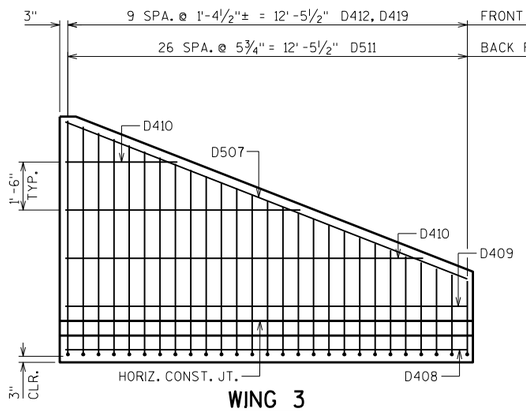


SECTION THRU WINGS

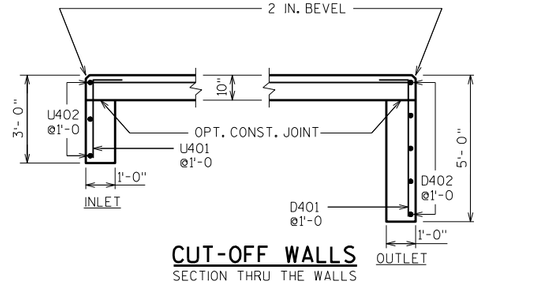
AT RIGHT ANGLES TO WING WALLS



WING 1

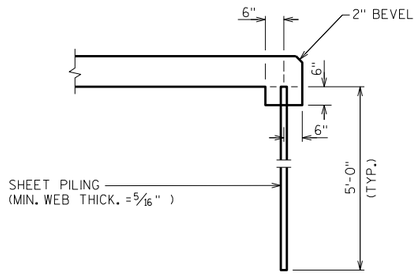


WING 3



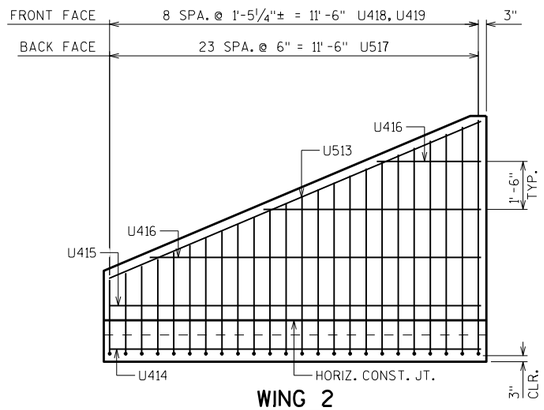
CUT-OFF WALLS

SECTION THRU THE WALLS

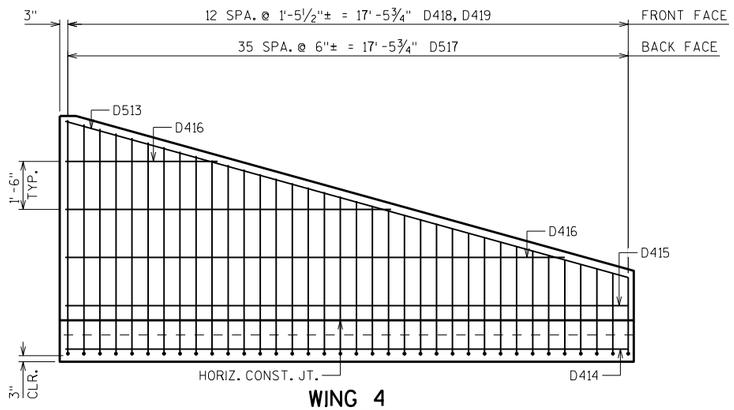


ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.



WING 2



WING 4

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-51-23

DRAWN BY NAR | PLANS CK'D. DFD

APRON DETAILS

SHEET 3

452

SCALE = 4

8

8

STATE PROJECT NUMBER

2430-06-70

BILL OF BARS

THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

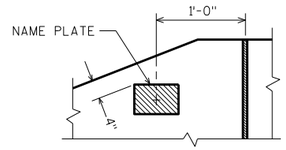
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
U401		18	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	24 - 6			INLET APRON AND CUTOFF WALL
U403		11	17 - 9		*	" APRON
U404		9	17 - 9			" APRON
U405		5	7 - 7		*	" APRON
U406		4	8 - 3		*	" APRON
U507	X	2	20 - 2			WING 1 -HORIZONTAL - BOTH FACES
U408	X	2	19 - 8			WING "-HORIZONTAL -APRON BOTT. SLAB
U409	X	2	19 - 8			WING "-HORIZONTAL - BOTH FACES
U410	X	6	11 - 2		*	WING "-HORIZONTAL - BOTH FACES
U511	X	40	10 - 10	6 - 1	*	WING "-VERTICAL - BACK FACE
U412	X	14	3 - 9		*	WING "-VERTICAL - FRONT FACE
U513	X	2	12 - 6			WING 2 -HORIZONTAL - BOTH FACES
U414	X	2	11 - 7			WING "-HORIZONTAL -APRON BOTT. SLAB
U415	X	2	11 - 7			WING "-HORIZONTAL - BOTH FACES
U416	X	6	6 - 10		*	WING "-HORIZONTAL - BOTH FACES
U517	X	24	10 - 10	6 - 1	*	WING "-VERTICAL - BACK FACE
U418	X	9	3 - 9		*	WING "-VERTICAL - FRONT FACE
U419	X	23	2 - 4			WINGS 1 AND 2 - DOWELS - FRONT FACE
D401		13	5 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		5	18 - 5			OUTLET APRON AND CUTOFF WALL
D403		11	14 - 9		*	" APRON
D404		9	17 - 9			" APRON
D405		2	10 - 10			" APRON
D406		2	6 - 0			" APRON
D507	X	2	13 - 5			WING 3 -HORIZONTAL - BOTH FACES
D408	X	2	12 - 6			WING "-HORIZONTAL -APRON BOTT. SLAB
D409	X	2	12 - 6			WING "-HORIZONTAL - BOTH FACES
D410	X	6	7 - 4		*	WING "-HORIZONTAL - BOTH FACES
D511	X	27	10 - 10	6 - 1	*	WING "-VERTICAL - BACK FACE
D412	X	10	3 - 9		*	WING "-VERTICAL - FRONT FACE
D513	X	2	18 - 2			WING 4 -HORIZONTAL - BOTH FACES
D414	X	2	17 - 6			WING "-HORIZONTAL -APRON BOTT. SLAB
D415	X	2	17 - 6			WING "-HORIZONTAL - BOTH FACES
D416	X	6	10 - 2		*	WING "-HORIZONTAL - BOTH FACES
D517	X	37	10 - 10	6 - 1	*	WING "-VERTICAL - BACK FACE
D418	X	13	3 - 9		*	WING "-VERTICAL - FRONT FACE
D419	X	23	2 - 4			WINGS 3 AND 4 - DOWELS - FRONT FACE

* LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

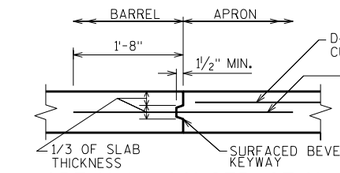
BAR SERIES TABLE

--- BUNDLE AND TAG EACH SERIES SEPARATELY

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U403	1 SERIES OF 11	11 - 5 TO 24 - 0
U405	1 SERIES OF 5	2 - 5 TO 12 - 9
U406	1 SERIES OF 4	3 - 11 TO 12 - 7
U410	2 SERIES OF 3	5 - 1 TO 17 - 2
U511	1 SERIES OF 41	8 - 4 TO 13 - 3
U412	1 SERIES OF 15	1 - 4 TO 6 - 2
U416	2 SERIES OF 3	3 - 3 TO 10 - 4
U517	1 SERIES OF 25	8 - 4 TO 13 - 3
U418	1 SERIES OF 9	1 - 4 TO 6 - 2
D403	1 SERIES OF 11	11 - 1 TO 18 - 4
D410	2 SERIES OF 3	3 - 6 TO 11 - 2
D511	1 SERIES OF 27	8 - 4 TO 13 - 3
D412	1 SERIES OF 10	1 - 4 TO 6 - 2
D416	2 SERIES OF 3	4 - 9 TO 15 - 7
D517	1 SERIES OF 37	8 - 4 TO 13 - 3
D418	1 SERIES OF 13	1 - 4 TO 6 - 2

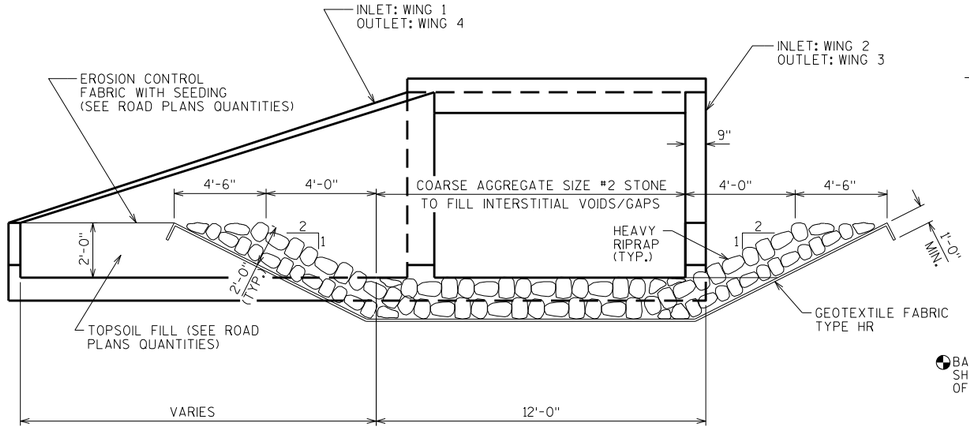


NAME PLATE LOCATION
WING 4



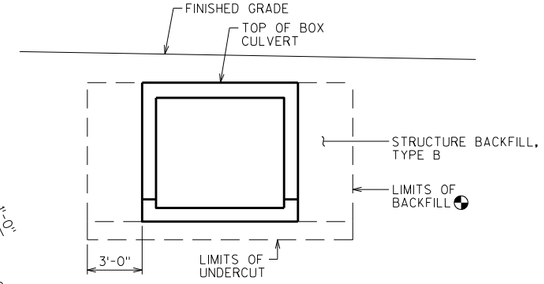
OPTIONAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



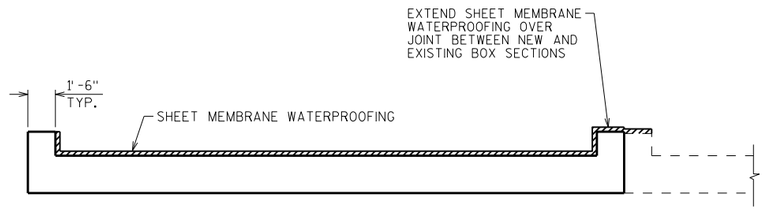
INLET & OUTLET EROSION CONTROL DETAIL

SECTION NORMAL TO WINGS 2 & 3



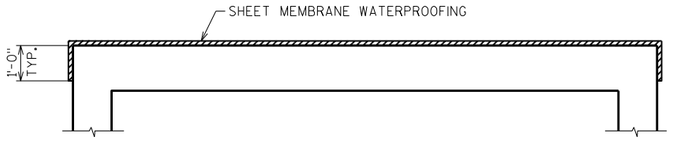
BARREL BACKFILL LIMITS

BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.



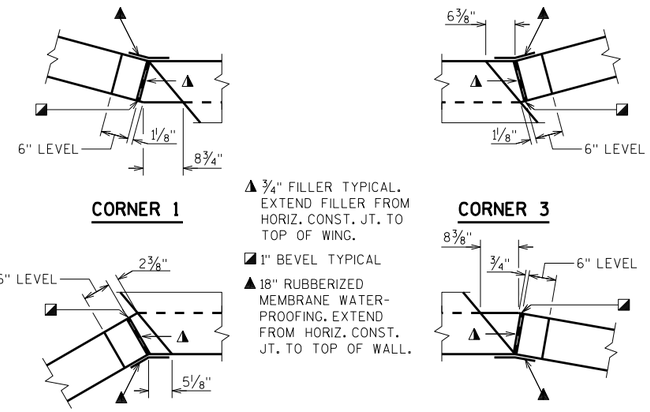
CROSS SECTION THRU STRUCTURE

SHOWING SHEET MEMBRANE WATERPROOFING LIMITS



ELEVATION THRU STRUCTURE

SHOWING SHEET MEMBRANE WATERPROOFING LIMITS



▲ ¾" FILLER TYPICAL. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL TYPICAL

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

CORNER DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-51-23

DRAWN BY NAR | PLANS CK'D. DFD

DETAILS

SHEET 4

453

SCALE = 4

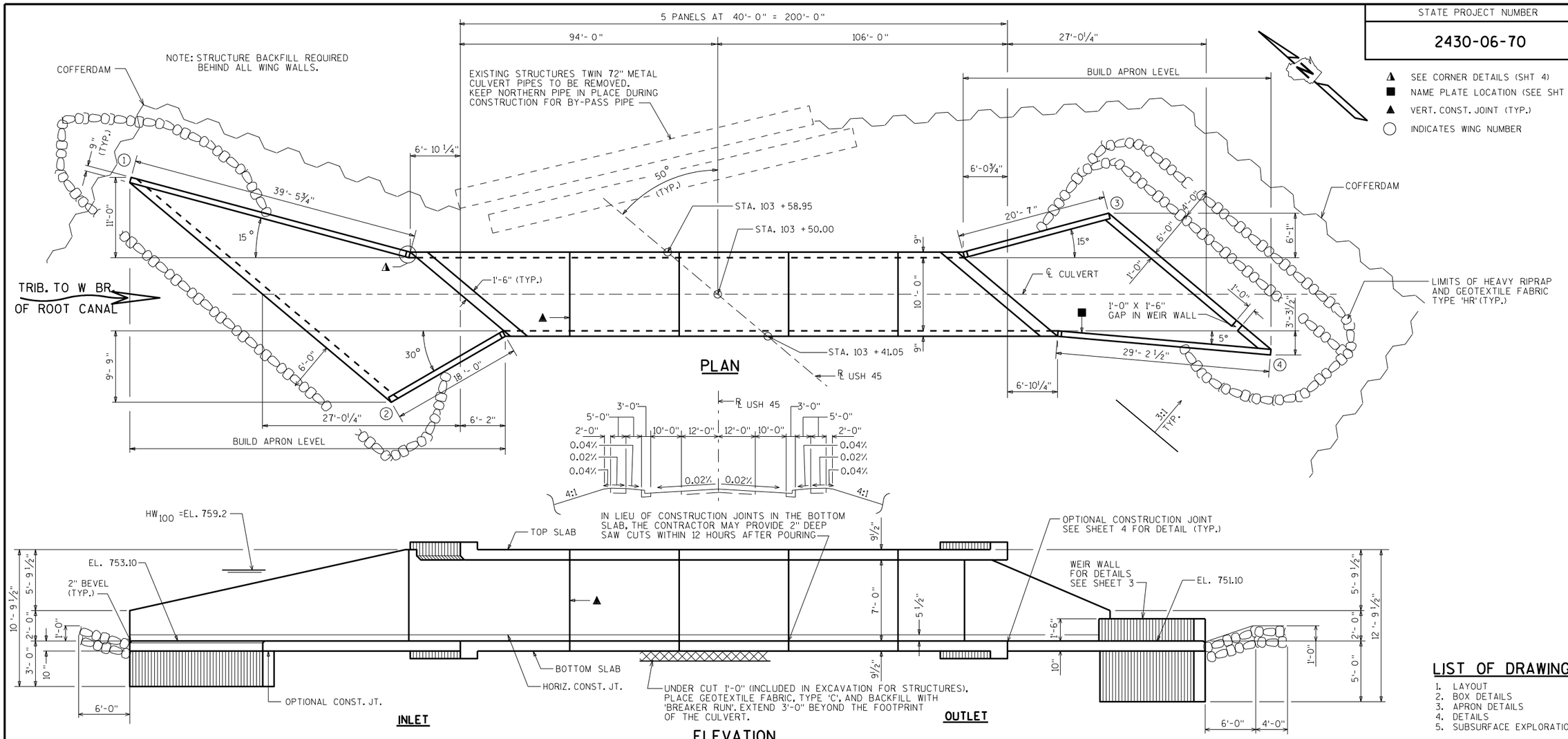
8

8

STATE PROJECT NUMBER

2430-06-70

▲ SEE CORNER DETAILS (SHT 4)
■ NAME PLATE LOCATION (SEE SHT 4)
▲ VERT. CONST. JOINT (TYP.)
○ INDICATES WING NUMBER



DESIGN DATA

LIVE LOAD:
DESIGN LOADING; HL-93
INVENTORY RATING FACTOR: RF=1.05
OPERATING RATING FACTOR: RF=1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 255 (KIPS)

EARTHLOAD: DESIGNED FOR 5.0 TO 7.0 FT. OF FILL.

MATERIAL PROPERTIES
CONCRETE MASONRY, GRADE A-FA ——— f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.

INVERTS SET 1'-0" BELOW STREAM BED.

TRAFFIC VOLUME

USH 45
A.D.T. = 8900 (2033)
R.D.S. = 50 M.P.H.

HYDRAULIC DATA

100 YEAR FREQUENCY
Q_{100} = 275 C.F.S.
VEL. = 9.6 F.P.S.
HW. = EL. 759.2
DRAINAGE AREA = 1.9 SQ. MI.
OVERTOPPING RDWY. = N.A.

2 YEAR FREQUENCY
Q_2 = 76 C.F.S.
HW. = EL. 756.3

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 103+50.00	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-51-64	1	LS
206.5000	COFFERDAMS C-51-64	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	1,390	TONS
311.0115	BREAKER RUN	185	CY
504.0100	CONCRETE MASONRY CULVERTS	271	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	37,820	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	3,170	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	43	SY
606.0300	RIPRAP HEAVY	100	CY
645.0105	GEOTEXTILE TYPE C	555	SY
645.0120	GEOTEXTILE TYPE HR	150	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE A 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATER- PROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DEVELOPMENT SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS ON CHAPTER 36 STANDARDS OF THE CURRENT WISC. DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BREAKER RUN, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS
5. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS:
DANIELLE DE TENNIS (608) 266-8689
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES
ACCEPTED William C. Dreher 10/24/16
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-51-64

USH 45 OVER TRIB. TO WEST BR. OF ROOT CANAL

COUNTY RACINE
~~TOWN/CITY~~/VILLAGE UNION GROVE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	MH	DESIGN CK'D.	DFD	DRAWN BY	DFD	PLANS CK'D.	NAR

LAYOUT

SHEET 1 OF 5

454

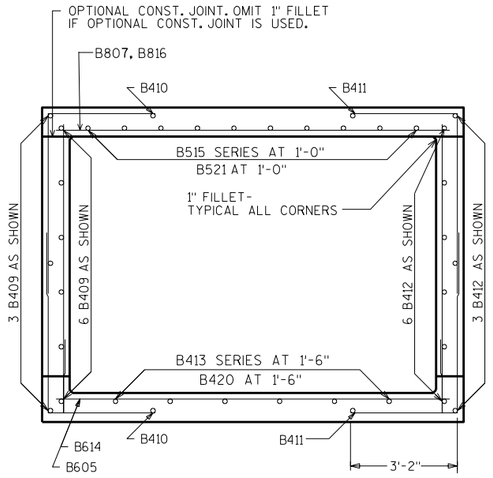
SCALE = 4

I.D. 2430-06-00F

DATE: AUG 2016

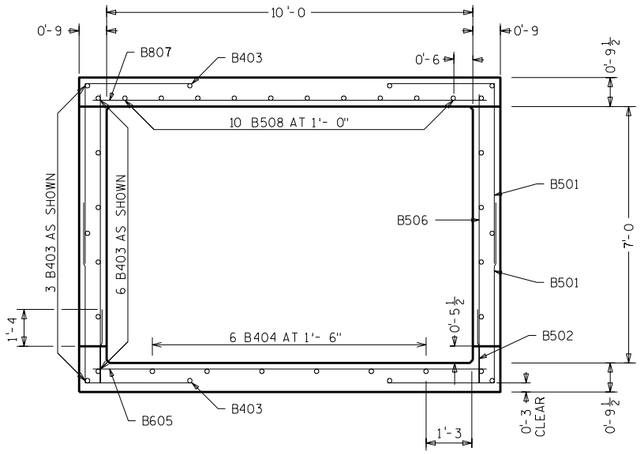
STATE PROJECT NUMBER

2430-06-70

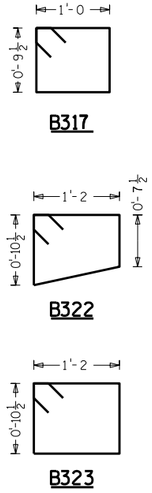


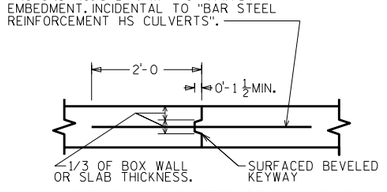
TYPICAL SECTION THRU BOX-EXTERIOR PANEL

BAR LABELS AND DIMENSIONS NOT SHOWN ARE IDENTICAL TO THOSE SHOWN IN THE INTERIOR PANEL SECTION.



TYPICAL SECTION THRU BOX-INTERIOR PANEL





VERTICAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.

BILL OF BARS

THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE. THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

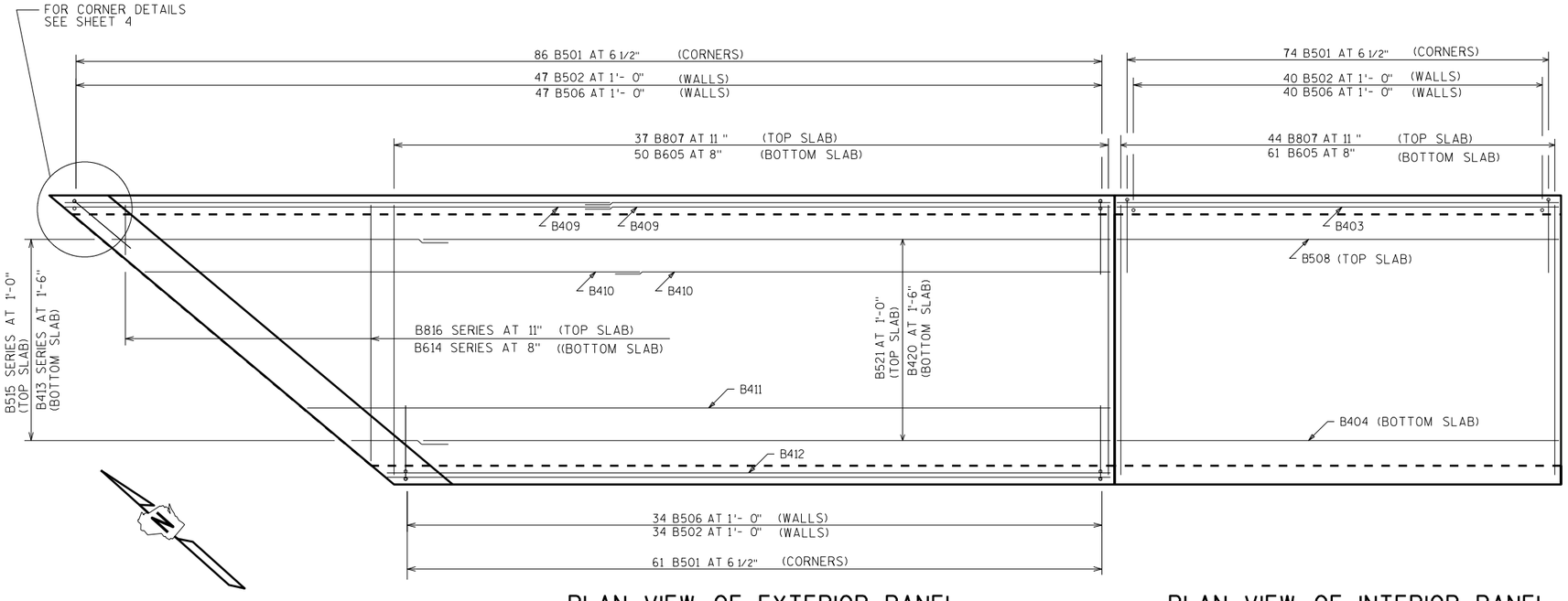
MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501	1476	8-0	3-2	NO	CORNERS
B502	402	2-4	NO	NO	WALLS-DOWELS VERT.
B403	66	39-6	NO	NO	TOP&BOTTOM SLAB & WALL
B404	18	39-6	NO	NO	BOTTOM SLAB LONGIT.
B605	284	11-0	NO	NO	BOTTOM SLAB TRANS.
B506	402	7-0	NO	NO	WALLS VERT.
B807	206	11-0	NO	NO	TOP SLAB TRANS.
B508	30	39-6	NO	NO	TOP SLAB LONGIT.
B409	36	24-0	NO	NO	TOP&BOTTOM SLAB & WALL
B410	8	22-6	NO	NO	TOP&BOTTOM SLAB LONGIT.
B411	4	36-6	NO	NO	TOP&BOTTOM SLAB LONGIT.
B412	18	32-10	NO	NO	TOP&BOTTOM SLAB & WALL
B413	12	11-6	NO	YES	BOTTOM SLAB LONGIT.
B614	32	6-6	NO	YES	BOTTOM SLAB TRANS.
B515	20	11-6	NO	YES	TOP SLAB LONGIT.
B816	22	6-5	NO	YES	TOP SLAB TRANS.
B317	48	4-2	YES	NO	BOT. HEADER STIRRUPS VERT.
B1018	24	17-4	NO	NO	HEADERS HORIZ.
B519	148	4-0	NO	NO	VERT.CONST.JOINT
B420	12	30-0	NO	NO	BOTTOM SLAB LONGIT.
B521	20	30-0	NO	NO	TOP SLAB LONGIT.
B322	24	4-4	YES	NO	TOP HEADER STIRRUPS VERT.
B323	24	4-8	YES	NO	TOP HEADER STIRRUPS VERT.

LENGTH SHOWN FOR BAR SERIES IN "BILL OF BARS" IS AVERAGE LENGTH.

BAR SERIES TABLE

MARK	LENGTH			NO.OF BARS/SERIES	NO.OF EACH SERIES
B413	7-0	TO	16-0	6	2
B614	2-4	TO	10-8	16	2
B515	6-2	TO	16-10	10	2
B816	2-7	TO	10-3	11	2

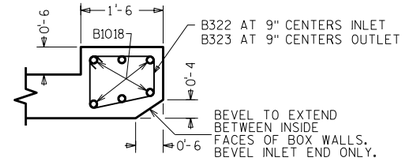
BUNDLE AND TAG EACH SERIES SEPARATELY



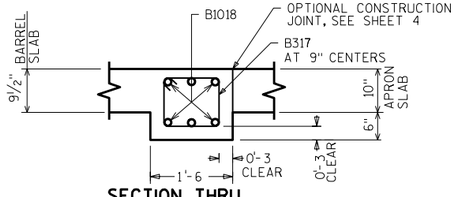
PLAN VIEW OF EXTERIOR PANEL

PLAN VIEW OF INTERIOR PANEL

HORIZONTAL SCALE = 1/2 OF VERTICAL SCALE



SECTION THRU TOP HEADER



SECTION THRU BOTTOM HEADER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-51-64

DRAWN BY DFD | PLANS CK'D. NAR

BOX DETAILS

SHEET 2

455

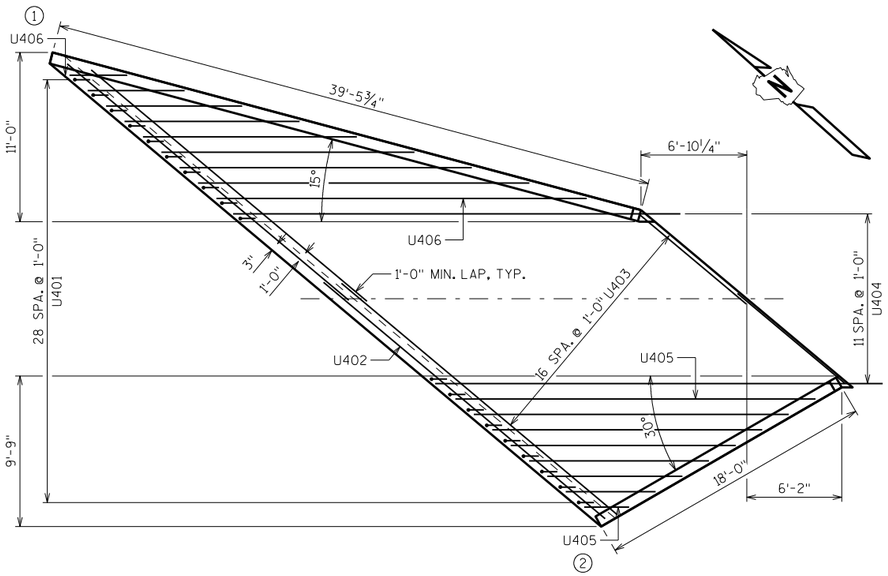
8

8

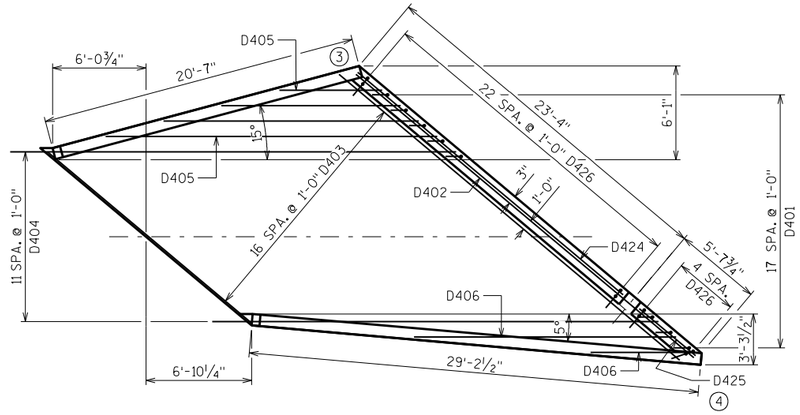
SCALE = 4

○ INDICATES WING NUMBER

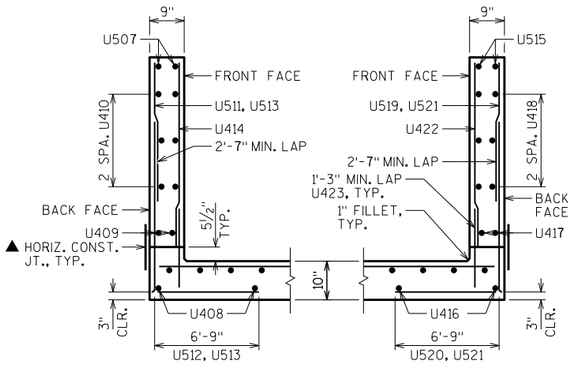
STATE PROJECT NUMBER
2430-06-70



INLET APRON PLAN

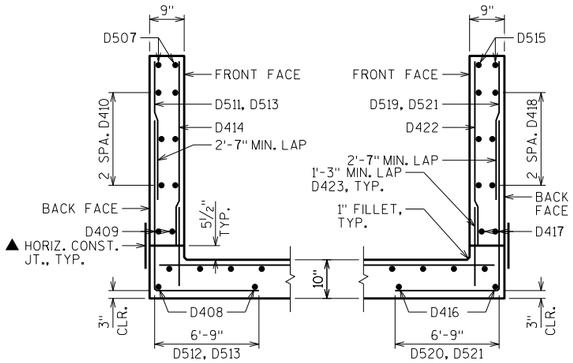


OUTLET APRON PLAN



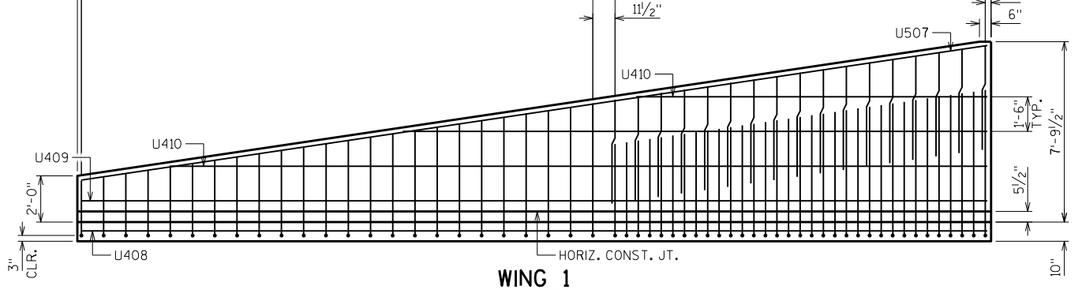
WING 1 SECTION

WING 2 SECTION



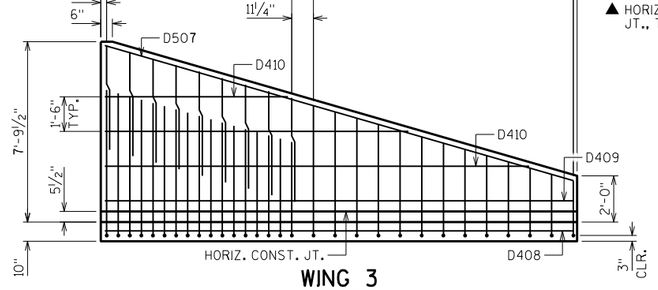
WING 3 SECTION

WING 4 SECTION



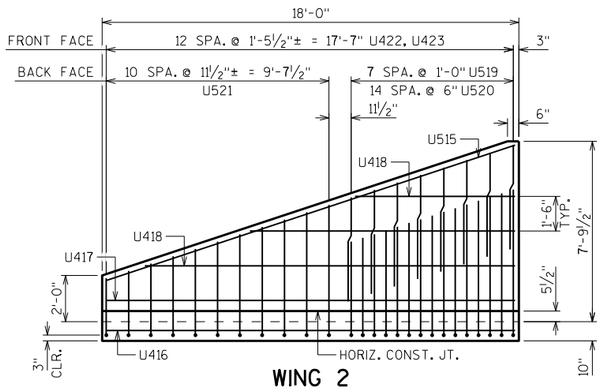
WING 1

SHOWING BACK FACE REINFORCEMENT



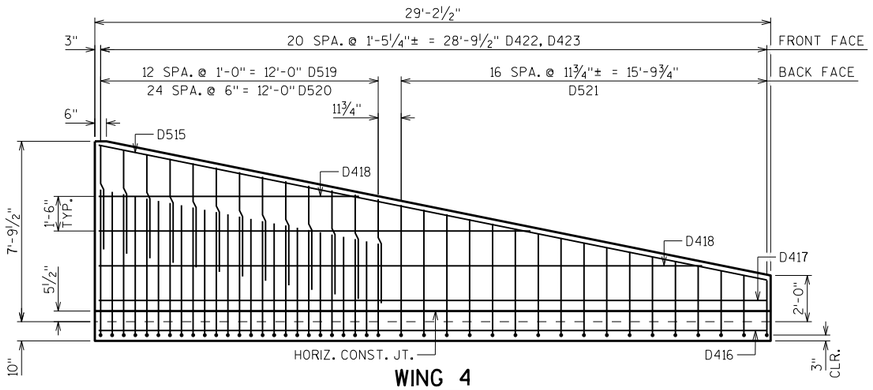
WING 3

SHOWING BACK FACE REINFORCEMENT



WING 2

SHOWING BACK FACE REINFORCEMENT



WING 4

SHOWING BACK FACE REINFORCEMENT

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING, PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH, TYP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-51-64

DRAWN BY DFD | PLANS CK'D. NAR

APRON

SHEET 3

456

SCALE = 4.75

8

8

STATE PROJECT NUMBER

2430-06-70

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

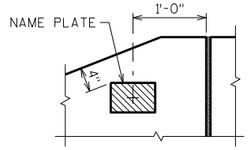
BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
U401		29	3'-6"	X		INLET APRON AND CUTOFF WALL VERT.
U402		6	23'-10"			INLET APRON AND CUTOFF WALL HORIZ.
U403		34	16'-3"		⚠	INLET APRON SLAB HORIZ.
U404		12	28'-11"			INLET APRON AND BOX SLAB HORIZ.
U405		8	13'-2"		⚠	INLET APRON SLAB HORIZ.
U406		9	13'-11"		⚠	INLET APRON SLAB HORIZ.
U507	X	2	39'-2"			WING 1 HORIZ. TOP BOTH FACES
U408	X	2	39'-2"			WING 1 HORIZ. APRON SLAB
U409	X	2	39'-2"			WING 1 HORIZ. BOTTOM BOTH FACES
U410	X	6	25'-3"		⚠	WING 1 HORIZ.
U511	X	17	4'-6"			WING 1 VERT. BACK FACE
U512	X	33	11'-9"	X	⚠	WING 1 VERT. BACK FACE
U513	X	24	10'-8"	X	⚠	WING 1 VERT. BACK FACE
U414	X	28	4'-3"		⚠	WING 1 VERT. FRONT FACE
U515	X	2	18'-3"			WING 2 HORIZ. TOP BOTH FACES
U416	X	2	17'-7"			WING 2 HORIZ. APRON SLAB
U417	X	2	17'-7"			WING 2 HORIZ. BOTTOM BOTH FACES
U418	X	6	11'-6"		⚠	WING 2 HORIZ.
U519	X	8	4'-6"			WING 2 VERT. BACK FACE
U520	X	15	11'-9"	X	⚠	WING 2 VERT. BACK FACE
U521	X	11	10'-8"	X	⚠	WING 2 VERT. BACK FACE
U422	X	13	4'-3"		⚠	WING 2 VERT. FRONT FACE
U423	X	41	2'-4"			WINGS 1 & 2 DOWELS FRONT FACE
D401		18	5'-6"	X		OUTLET APRON AND CUTOFF WALL VERT.
D402		5	28'-7"			OUTLET APRON AND CUTOFF WALL HORIZ.
D403		17	23'-1"		⚠	OUTLET APRON SLAB HORIZ.
D404		12	28'-11"			OUTLET APRON AND BOX SLAB HORIZ.
D405		4	14'-1"		⚠	OUTLET APRON SLAB HORIZ.
D406		2	11'-11"		⚠	OUTLET APRON SLAB HORIZ.
D507	X	2	20'-8"			WING 3 HORIZ. TOP BOTH FACES
D408	X	2	20'-2"			WING 3 HORIZ. APRON SLAB
D409	X	2	20'-2"			WING 3 HORIZ. BOTTOM BOTH FACES
D410	X	6	13'-2"		⚠	WING 3 HORIZ.
D511	X	9	4'-6"			WING 3 VERT. BACK FACE
D512	X	17	11'-9"	X	⚠	WING 3 VERT. BACK FACE
D513	X	13	10'-8"	X	⚠	WING 3 VERT. BACK FACE
D414	X	15	4'-3"		⚠	WING 3 VERT. FRONT FACE
D515	X	2	29'-1"			WING 4 HORIZ. TOP BOTH FACES
D416	X	2	28'-9"			WING 4 HORIZ. APRON SLAB
D417	X	2	28'-9"			WING 4 HORIZ. BOTTOM BOTH FACES
D418	X	6	18'-8"		⚠	WING 4 HORIZ.
D519	X	13	4'-6"			WING 4 VERT. BACK FACE
D520	X	25	11'-9"	X	⚠	WING 4 VERT. BACK FACE
D521	X	17	10'-8"	X	⚠	WING 4 VERT. BACK FACE
D422	X	21	4'-3"		⚠	WING 4 VERT. FRONT FACE
D423	X	36	2'-4"			WINGS 3 & 4 DOWELS FRONT FACE
D424		2	22'-9"			WEIR WALL HORIZ.
D425		2	5'-0"			WEIR WALL HORIZ.
D426		28	4'-11"	X		WEIR WALL VERT.

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

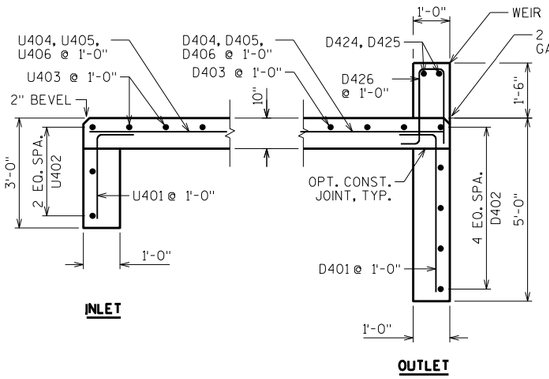
BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
U403	2 SERIES OF 17	9'-1" TO 23'-4"
U405	1 SERIES OF 8	2'-11" TO 23'-4"
U406	1 SERIES OF 9	3'-9" TO 24'-0"
U410	2 SERIES OF 3	15'-2" TO 35'-4"
U512	1 SERIES OF 33	10'-7" TO 12'-11"
U513	1 SERIES OF 24	9'-0" TO 12'-4"
U414	1 SERIES OF 28	1'-4" TO 7'-2"
U418	2 SERIES OF 3	6'-11" TO 16'-0"
U520	1 SERIES OF 15	10'-8" TO 12'-11"
U521	1 SERIES OF 11	9'-1" TO 12'-3"
U422	1 SERIES OF 13	1'-5" TO 7'-2"
D403	1 SERIES OF 17	17'-2" TO 28'-10"
D405	1 SERIES OF 4	6'-8" TO 21'-6"
D406	1 SERIES OF 2	6'-9" TO 17'-0"
D410	2 SERIES OF 3	7'-11" TO 18'-4"
D512	1 SERIES OF 17	10'-8" TO 12'-11"
D513	1 SERIES OF 13	9'-0" TO 12'-3"
D414	1 SERIES OF 15	1'-5" TO 7'-2"
D418	2 SERIES OF 3	11'-3" TO 26'-1"
D520	1 SERIES OF 25	10'-7" TO 12'-11"
D521	1 SERIES OF 17	9'-0" TO 12'-3"
D422	1 SERIES OF 21	1'-4" TO 7'-2"

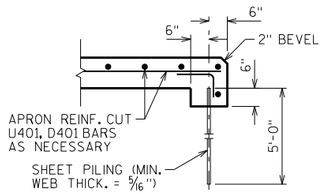
BUNDLE AND TAG EACH SERIES SEPARATELY



NAME PLATE LOCATION
WING 4

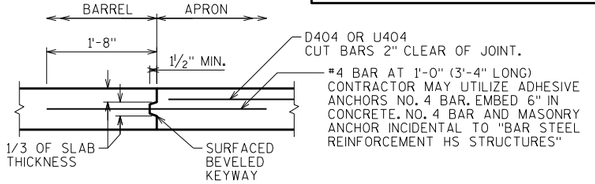


CUT-OFF WALLS



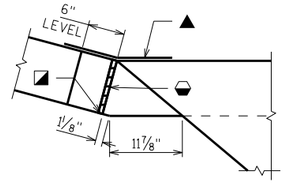
ALTERNATE CUT-OFF WALLS

THE ABOVE ALTERNATIVE MAY BE USED IN LIEU OF CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.

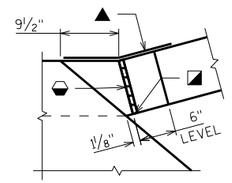


OPTIONAL CONSTRUCTION JOINT

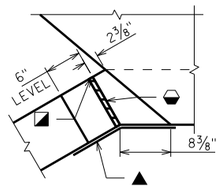
2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



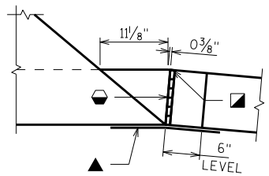
CORNER 1



CORNER 3

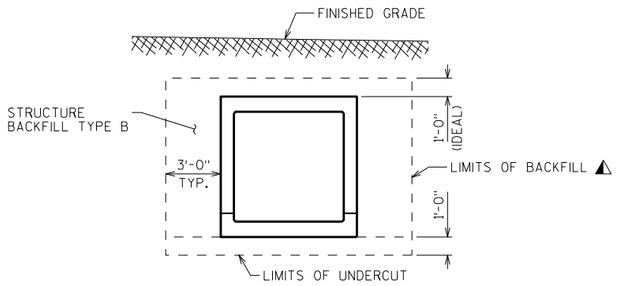


CORNER 2



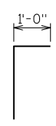
CORNER 4

CORNER DETAILS

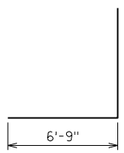


STRUCTURE BACKFILL LIMITS

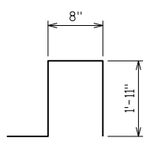
⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.



U401, D401



U512, U513, U520, U521, D512, D513, D520, D521



D426

◒ 3/4" FILLER, TYP. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL, TYP.

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-51-64

DRAWN BY DFD | PLANS CK'D. NAR

APRON DETAILS

SHEET 4

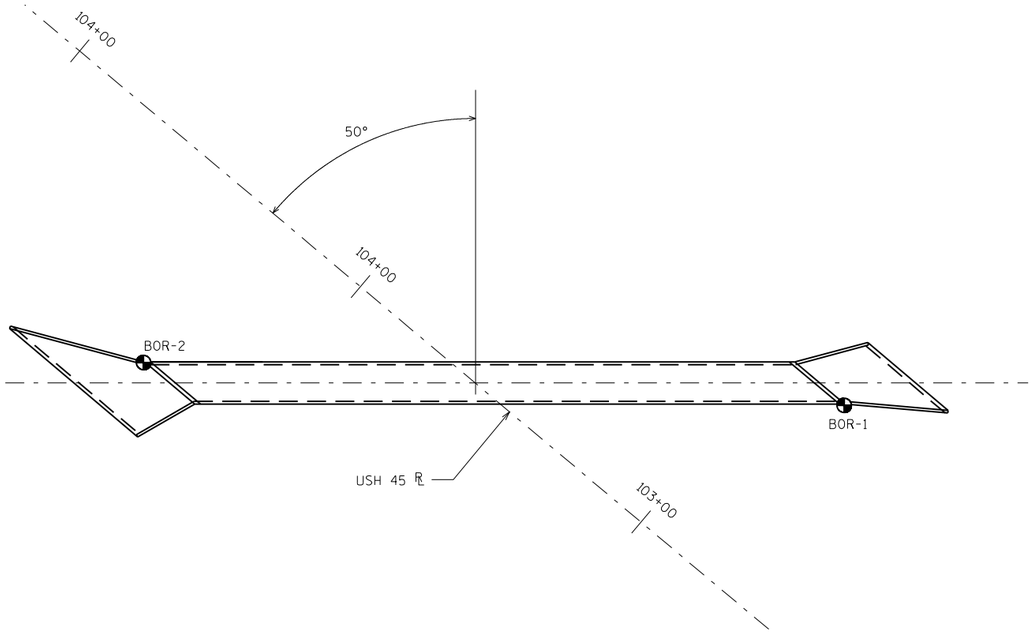
457

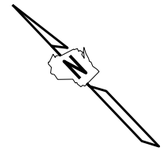
SCALE = 1.00

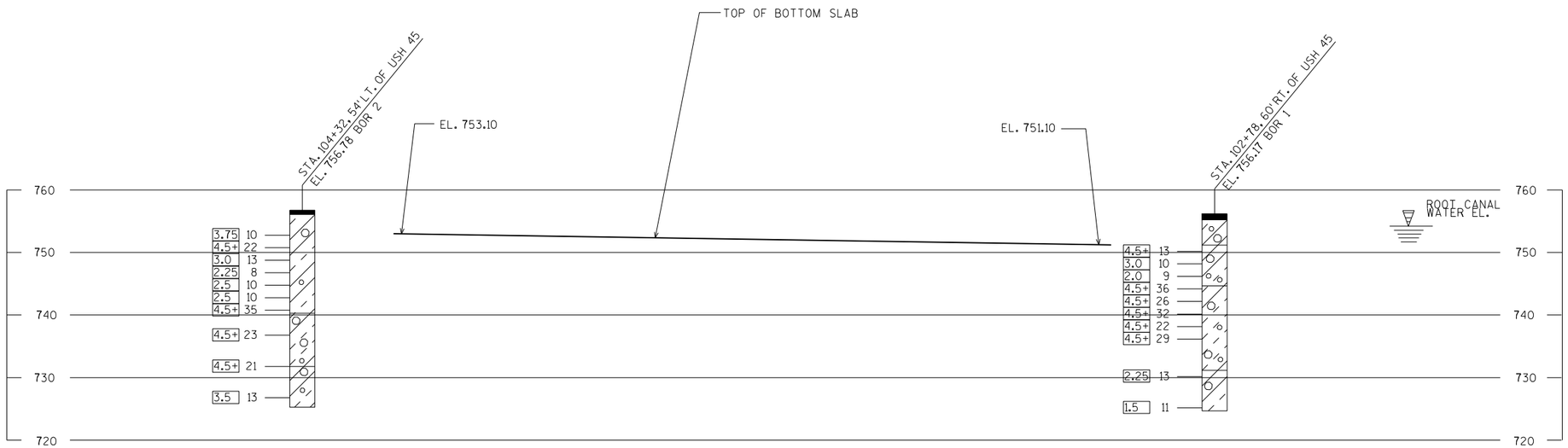
8

8

USH 45 OVER TRIB TO W BR ROOT CANAL
7TH AVE - STH 20 UNION GROVE







STATE PROJECT NUMBER

2430-06-70

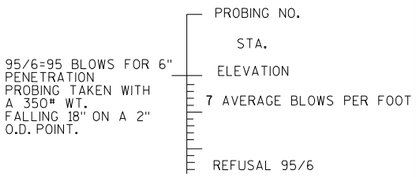
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

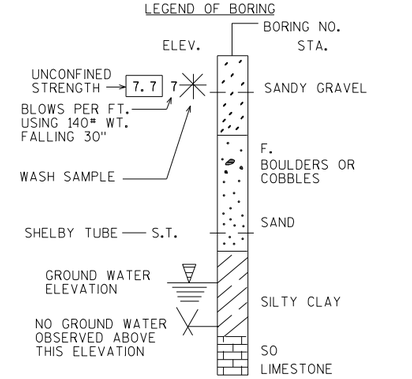
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-51-64

DRAWN BY PR/RIES | PLANS CK'D. NAR

SUBSURFACE EXPLORATION

SHEET 5

458

SCALE = 10

8

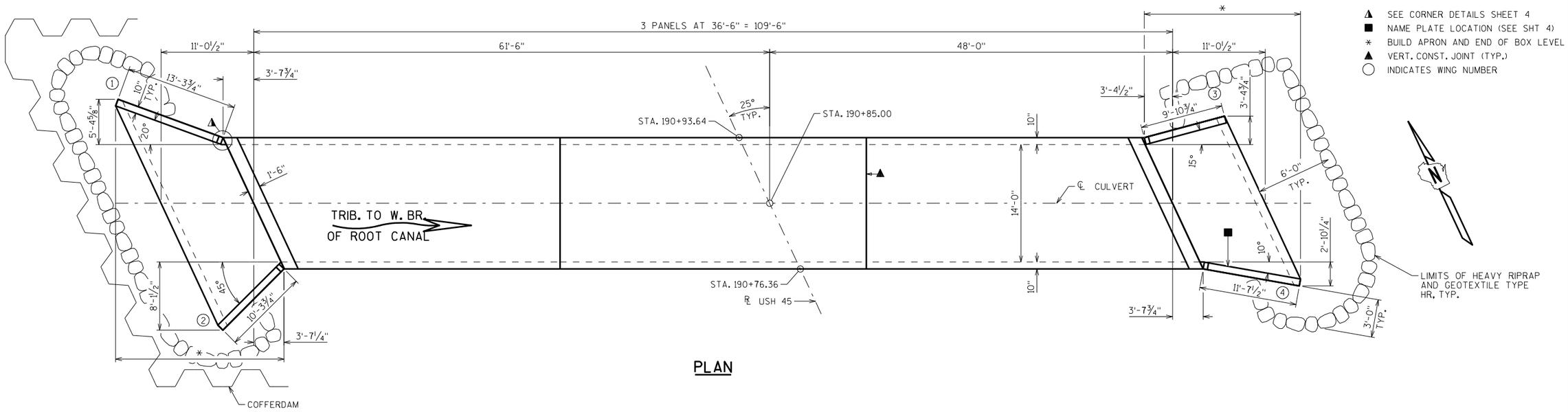
8

STATE PROJECT NUMBER

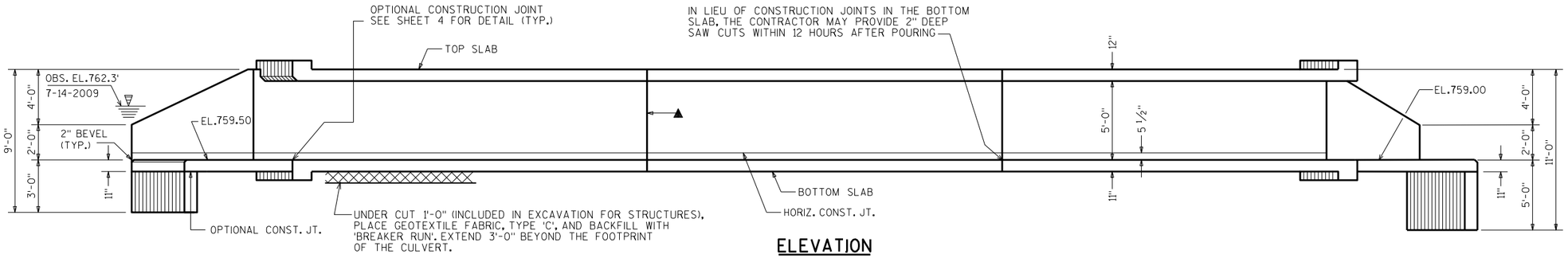
2430-06-70

NOTE: STRUCTURE BACKFILL REQUIRED BEHIND ALL WING WALLS.

▲ SEE CORNER DETAILS SHEET 4
■ NAME PLATE LOCATION (SEE SHT 4)
* BUILD APRON AND END OF BOX LEVEL
▲ VERT. CONST. JOINT (TYP.)
◯ INDICATES WING NUMBER



PLAN



INLET — **ELEVATION** — **OUTLET**

NOTE:
EXISTING STRUCTURE C-51-152 AT STA. 191+37 REINFORCED CONCRETE BOX CULVERT TO BE REMOVED AFTER C-51-65 IS OPERATIONAL.

LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS
5. SUBSURFACE EXPLORATION

DESIGN DATA

LIVE LOAD:
DESIGN LOADING; HL-93
INVENTORY RATING FACTOR: RF=1.05
OPERATING RATING FACTOR: RF=1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 255 (KIPS)

EARTHLOAD: DESIGNED FOR 2.0 TO 3.0 FT. OF FILL.

MATERIAL PROPERTIES:
CONCRETE MASONRY, GRADE A-FA ——— f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.
INVERTS TO BE SET 1'-6" BELOW STREAM BED.

TRAFFIC VOLUME

USH 45
A.D.T. = 4300 (2033)
R.D.S. = 60 M.P.H.

HYDRAULIC DATA

100 YEAR FREQUENCY
Q_{100} = 410 C.F.S.
VEL. = 7.3 F.P.S.
HW.$_{100}$ = EL. 765.95
DRAINAGE AREA = 1.4 SQ. MI.
OVERTOPPING RDWY. = N.A.

2 YEAR FREQUENCY
Q_2 = 111 C.F.S.
VEL. = 2.3 F.P.S.
HW.$_2$ = EL. 763.42

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 191+37	1 LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-51-65	1 LS
206.5000	COFFERDAMS C-51-65	1 LS
210.2500	BACKFILL STRUCTURE TYPE B	674 TON
311.0115	BREAKER RUN	110 CY
504.0100	CONCRETE MASONRY CULVERTS	185 CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	33,270 LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	920 LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	22 SY
606.0300	RIPRAP HEAVY	32 CY
645.0105	GEOTEXTILE TYPE C	354 SY
645.0120	GEOTEXTILE TYPE HR	88 SY

NON-BID ITEMS

FILLER	3/4" SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE A 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATER- PROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DEVELOPMENT SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS ON CHAPTER 36 STANDARDS OF THE CURRENT WISC. DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BREAKER RUN, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

STRUCTURE DESIGN CONTACTS:
AARON BONK (608) 261-0261
DANIELLE DE TENNIS (608) 266-8689

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES
ACCEPTED William C. Dreher 10/24/16
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE C-51-65

USH 45 OVER TR. W. BR. OF ROOT CANAL

COUNTY	TOWN/~~CITY/VILLAGE~~
RACINE	YORKVILLE

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
DFD	NAR	DFD	NAR

LAYOUT

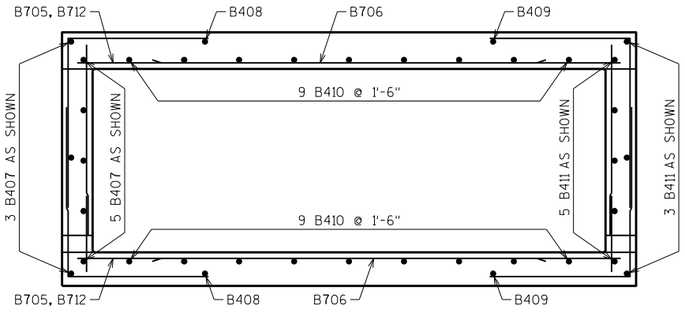
SHEET 1 OF 5

459

I.D. 2430-06-00B

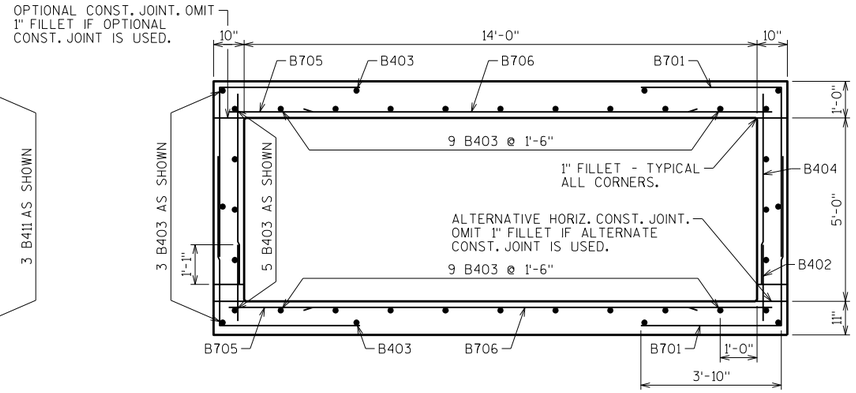
DATE: AUG 2016

SCALE = 4.0



TYPICAL SECTION THRU BOX EXTERIOR PANEL

BAR LABELS AND DIMENSIONS NOT SHOWN ARE IDENTICAL TO THOSE SHOWN IN THE INTERIOR PANEL SECTION.



TYPICAL SECTION THRU BOX INTERIOR PANEL

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

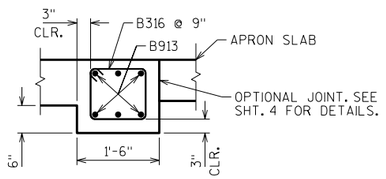
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B701		876	8'-4"	X		CORNERS
B402		178	2'-2"			WALLS - DOWELS VERT.
B403		38	36'-0"			INTERIOR PANEL LONGITUDINAL
B404		178	5'-4"			WALLS - VERT.
B705		206	15'-4"			TOP & BOT. SLABS TRANSVERSE
B706		204	11'-10"			TOP & BOT. SLABS TRANSVERSE
B407		16	39'-6"			EXT. PANEL WALL LONGITUDINAL
B408		4	38'-0"			EXT. PANEL SLABS LONGITUDINAL
B409		4	34'-3"			EXT. PANEL SLABS LONGITUDINAL
B410		36	36'-2"		⚠	EXT. PANEL SLABS LONGITUDINAL
B411		16	32'-6"			EXT. PANEL WALL LONGITUDINAL
B712		44	8'-6"		⚠	EXT. PANEL SLABS TRANSVERSE
B913		24	16'-11"			HEADERS HORIZ.
B314		24	4'-10"	X		INLET TOP HEADER STIRRUPS
B315		24	5'-1"	X		OUTLET TOP HEADER STIRRUPS
B316		48	4'-5"	X		BOTTOM HEADER STIRRUPS
B517		42	4'-0"			VERT. CONST. JOINT

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

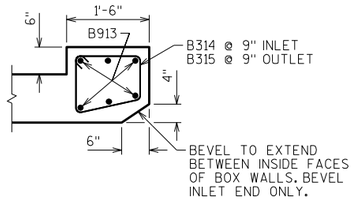
BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
B410	4 SERIES OF 9	33'-4" TO 38'-11"
B712	4 SERIES OF 11	3'-2" TO 13'-10"

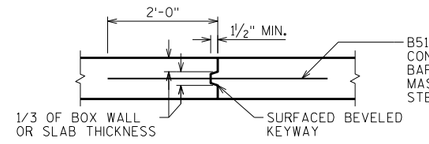
BUNDLE AND TAG EACH SERIES SEPARATELY.



SECTION THRU BOTTOM SLAB HEADER

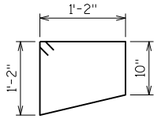


SECTION THRU TOP SLAB HEADER

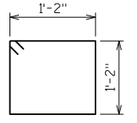


VERTICAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



B314



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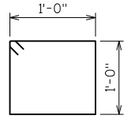

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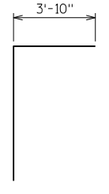
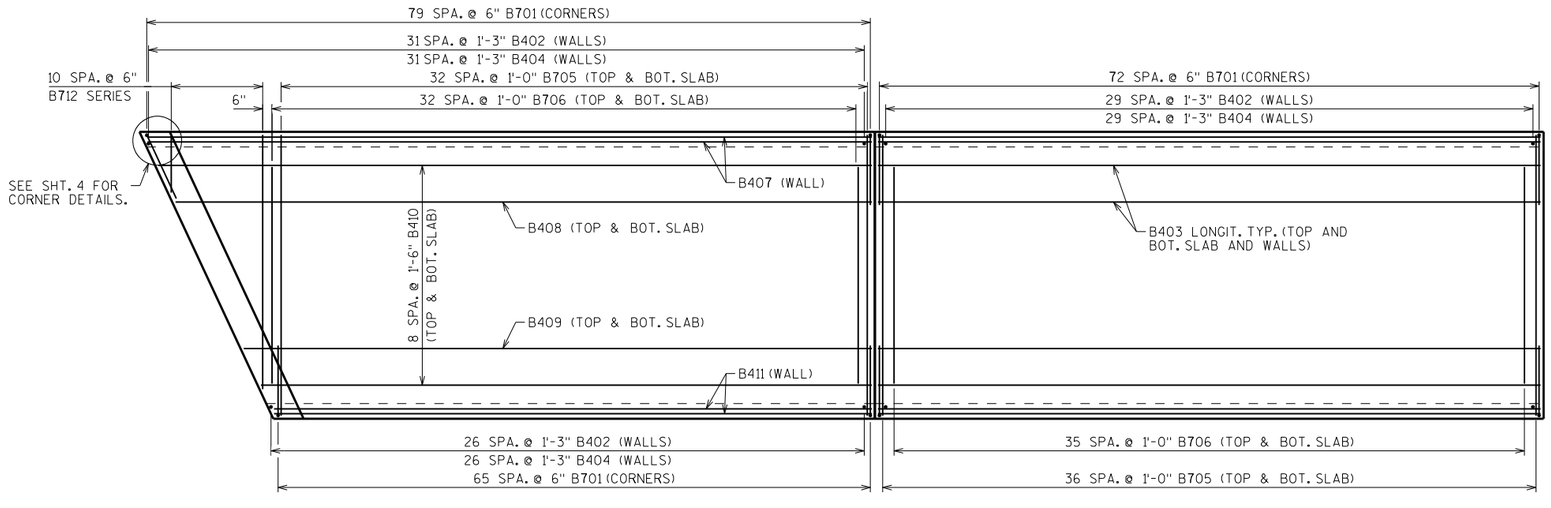


B701



PLAN VIEW OF EXTERIOR PANEL

INLET PANEL SHOWN, OUTLET SIMILAR
HEADER BARS NOT SHOWN

PLAN VIEW OF INTERIOR PANEL

STATE PROJECT NUMBER

2430-06-70

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-51-65

DRAWN BY DFD | PLANS CK'D. NAR

BOX DETAILS

SHEET 2

460

SCALE = 4.0

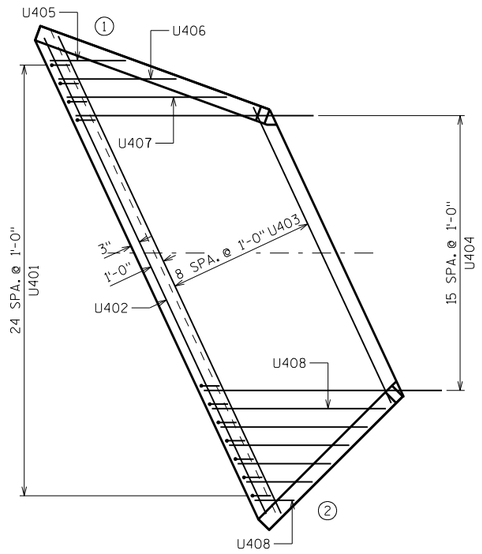
8

8

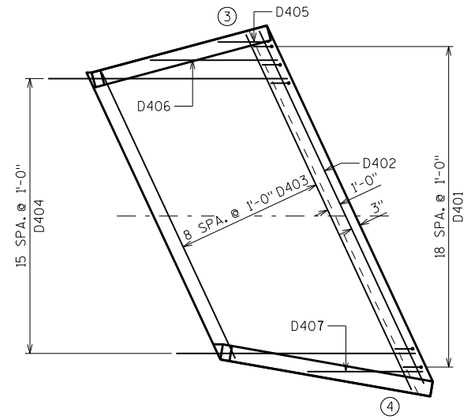
STATE PROJECT NUMBER

2430-06-70

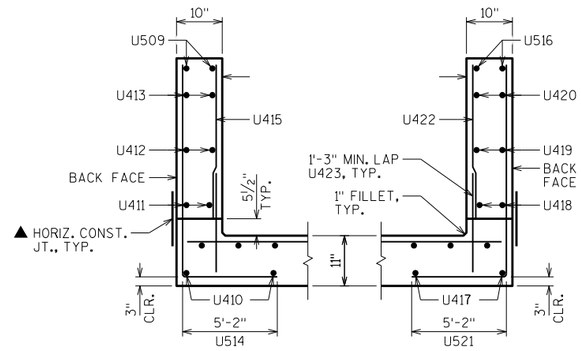
○ INDICATES WING NUMBER



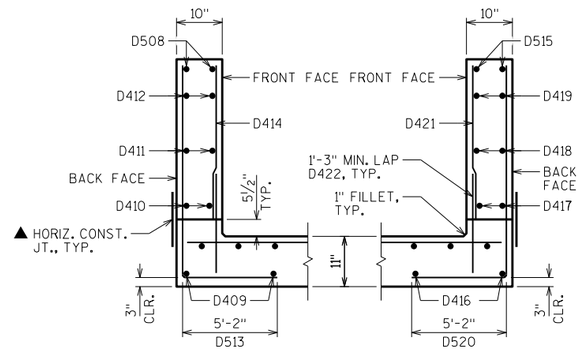
INLET APRON PLAN



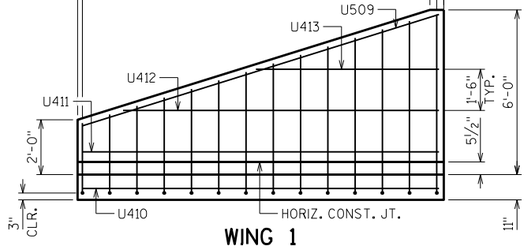
OUTLET APRON PLAN



WING 1 SECTION WING 2 SECTION

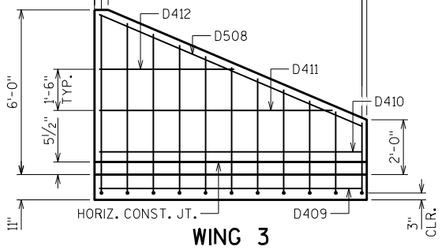


WING 3 SECTION WING 4 SECTION



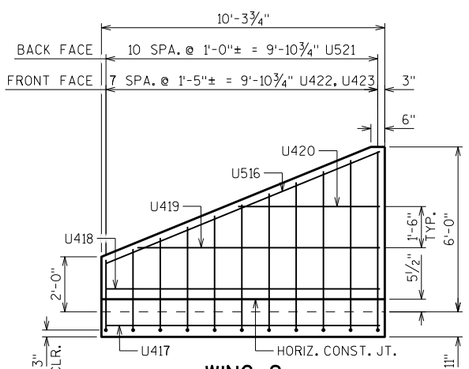
WING 1

SHOWING BACK FACE REINFORCEMENT



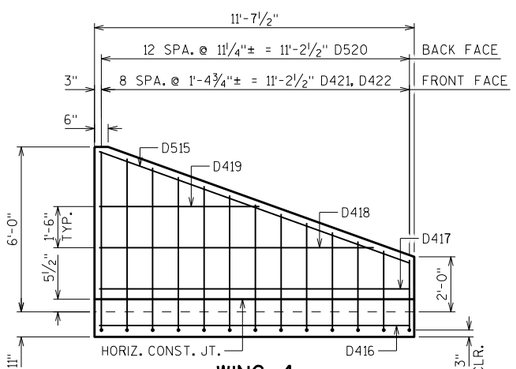
WING 3

SHOWING BACK FACE REINFORCEMENT



WING 2

SHOWING BACK FACE REINFORCEMENT



WING 4

SHOWING BACK FACE REINFORCEMENT

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING, PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH, TYP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-51-65

DRAWN BY DFD | PLANS CK'D. NAR

APRON DETAILS

SHEET 3

461

SCALE = 4.00

8

8

STATE PROJECT NUMBER

2430-06-70

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

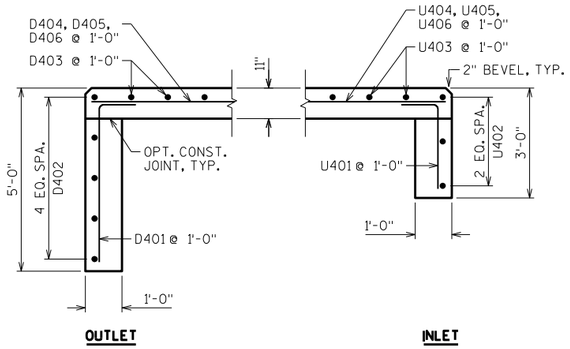
BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
U401		25	3'-6"	X		INLET APRON AND CUTOFF WALL VERT.
U402		3	28'-8"			INLET APRON AND CUTOFF WALL HORIZ.
U403		9	23'-4"		⚠	INLET APRON SLAB HORIZ.
U404		16	13'-0"			INLET APRON AND BOX SLAB HORIZ.
U405		1	4'-2"			INLET APRON SLAB HORIZ.
U406		1	6'-6"			INLET APRON SLAB HORIZ.
U407		1	8'-9"			INLET APRON SLAB HORIZ.
U408		6	5'-10"		⚠	INLET APRON SLAB HORIZ.
U509	X	2	13'-3"			WING 1 HORIZ. TOP BOTH FACES
U410	X	2	12'-10"			WING 1 HORIZ. APRON SLAB
U411	X	2	12'-10"			WING 1 HORIZ. BOTTOM BOTH FACES
U412	X	2	11'-6"			WING 1 HORIZ.
U413	X	2	6'-8"			WING 1 HORIZ.
U514	X	14	9'-7"	X	⚠	WING 1 VERT. BACK FACE
U415	X	10	3'-5"		⚠	WING 1 VERT. FRONT FACE
U516	X	2	10'-5"			WING 2 HORIZ. TOP BOTH FACES
U417	X	2	9'-10"			WING 2 HORIZ. APRON SLAB
U418	X	2	9'-10"			WING 2 HORIZ. BOTTOM BOTH FACES
U419	X	2	8'-10"			WING 2 HORIZ.
U420	X	2	5'-2"			WING 2 HORIZ.
U521	X	11	9'-7"	X	⚠	WING 2 VERT. BACK FACE
U422	X	8	3'-5"		⚠	WING 2 VERT. FRONT FACE
U423	X	18	2'-5"			WINGS 1 & 2 DOWELS FRONT FACE
D401		19	5'-6"	X		OUTLET APRON AND CUTOFF WALL VERT.
D402		5	21'-3"			OUTLET APRON AND CUTOFF WALL HORIZ.
D403		9	19'-4"		⚠	OUTLET APRON SLAB HORIZ.
D404		16	13'-1"			OUTLET APRON AND BOX SLAB HORIZ.
D405		1	2'-10"			OUTLET APRON SLAB HORIZ.
D406		1	7'-0"			OUTLET APRON SLAB HORIZ.
D407		1	6'-4"			OUTLET APRON SLAB HORIZ.
D508	X	2	10'-0"			WING 3 HORIZ. TOP BOTH FACES
D409	X	2	9'-5"			WING 3 HORIZ. APRON SLAB
D410	X	2	9'-5"			WING 3 HORIZ. BOTTOM BOTH FACES
D411	X	2	8'-6"			WING 3 HORIZ.
D412	X	2	4'-11"			WING 3 HORIZ.
D513	X	11	9'-7"	X	⚠	WING 3 VERT. BACK FACE
D414	X	8	3'-5"		⚠	WING 3 VERT. FRONT FACE
D515	X	2	11'-7"			WING 4 HORIZ. TOP BOTH FACES
D416	X	2	11'-2"			WING 4 HORIZ. APRON SLAB
D417	X	2	11'-2"			WING 4 HORIZ. BOTTOM BOTH FACES
D418	X	2	10'-0"			WING 4 HORIZ.
D419	X	2	5'-10"			WING 4 HORIZ.
D520	X	13	9'-7"	X	⚠	WING 4 VERT. BACK FACE
D421	X	9	3'-5"		⚠	WING 4 VERT. FRONT FACE
D422	X	17	2'-5"			WINGS 3 & 4 DOWELS FRONT FACE

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

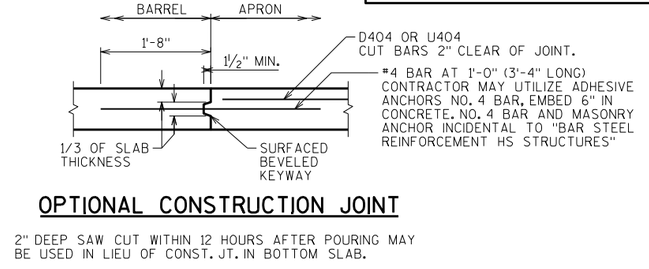
BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
U403	1 SERIES OF 9	17'-10" TO 28'-9"
U408	1 SERIES OF 6	2'-2" TO 9'-6"
U514	1 SERIES OF 14	7'-7" TO 11'-6"
U415	1 SERIES OF 10	1'-5" TO 5'-4"
U521	1 SERIES OF 11	7'-7" TO 11'-6"
U422	1 SERIES OF 8	1'-5" TO 5'-4"
D403	1 SERIES OF 9	17'-2" TO 21'-5"
D513	1 SERIES OF 11	7'-7" TO 11'-6"
D414	1 SERIES OF 8	1'-5" TO 5'-4"
D520	1 SERIES OF 13	7'-7" TO 11'-6"
D421	1 SERIES OF 9	1'-5" TO 5'-4"

BUNDLE AND TAG EACH SERIES SEPARATELY

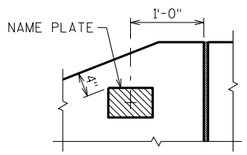


CUT-OFF WALLS

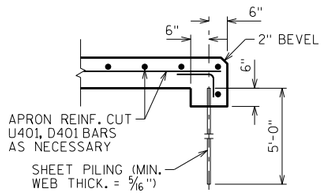


OPTIONAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.

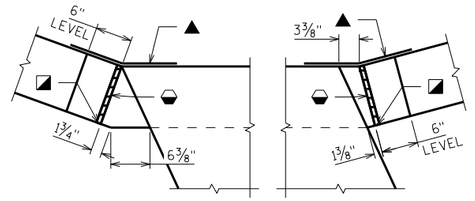


NAME PLATE LOCATION WING 4

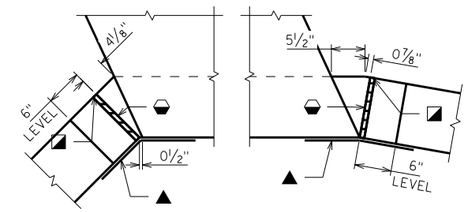


ALTERNATE CUT-OFF WALLS

THE ABOVE ALTERNATIVE MAY BE USED IN LIEU OF CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.

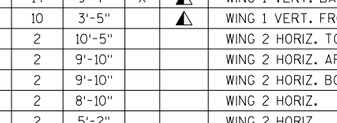


CORNER 1 CORNER 3

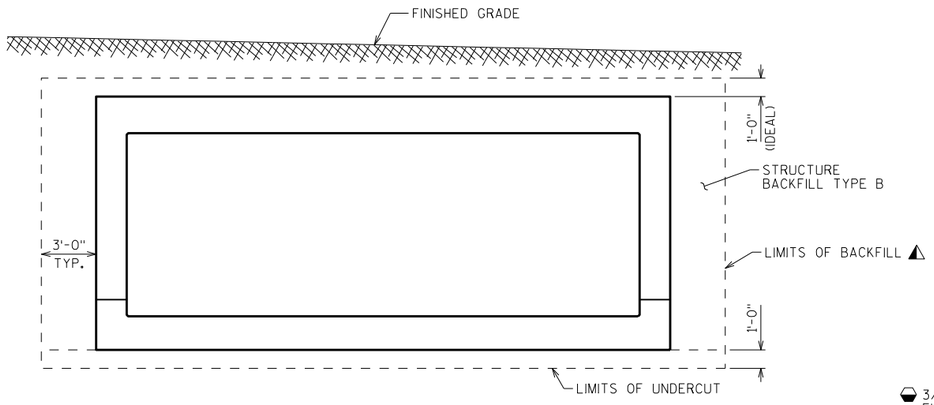


CORNER 2 CORNER 4

CORNER DETAILS



U401, D401 U514, U521, D513, D520



STRUCTURE BACKFILL LIMITS

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

◒ 3/4" FILLER, TYP. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

◪ 1" BEVEL, TYP.

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING. EXTEND FROM HORIZ. CONST. JT. TO TOP OF WALL.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-51-65

DRAWN BY DFD | PLANS CK'D. NAR

DETAILS

SHEET 4

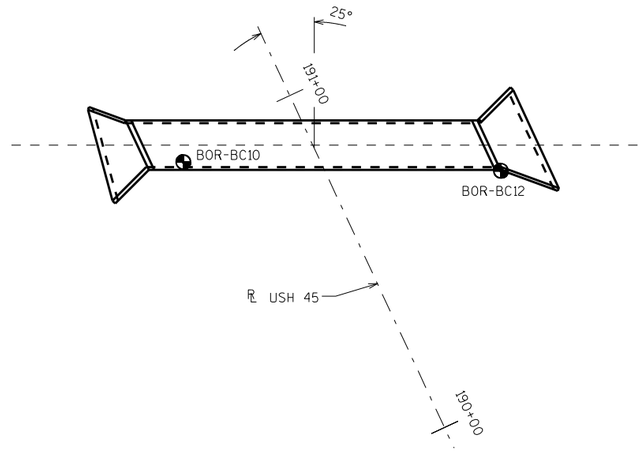
462

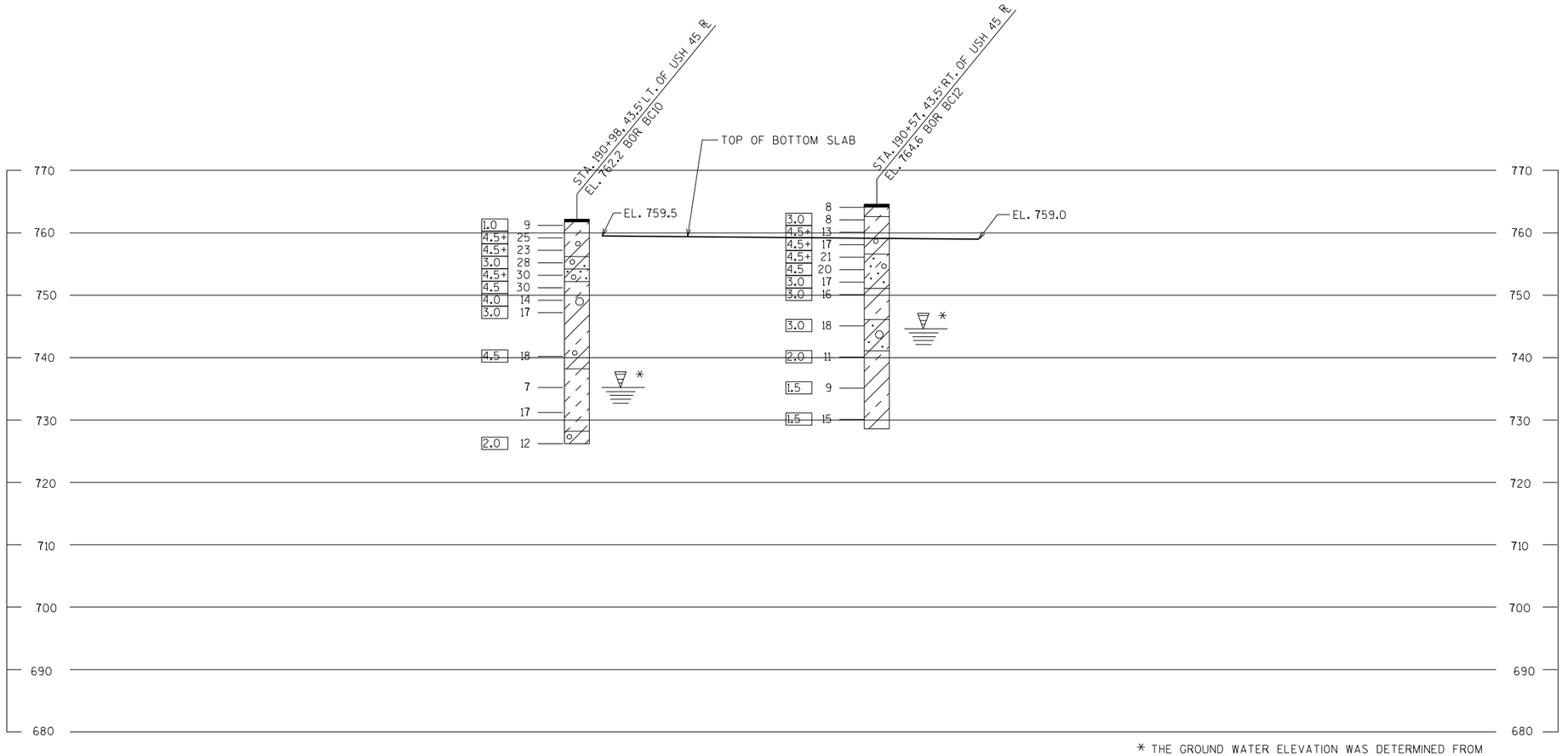
SCALE = 1.00

8

8

USH 45 OVER TRIB TO W BR ROOT RIVER CANAL
7TH AVE - STH 20 UNION GROVE





* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.

STATE PROJECT NUMBER

2430-06-70

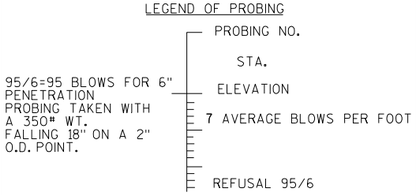
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

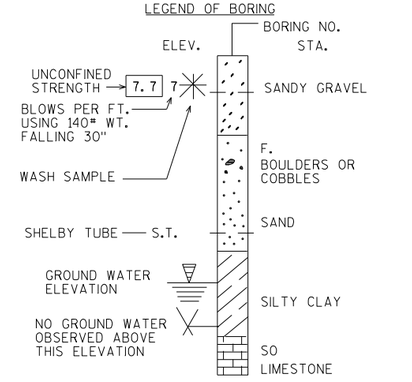
MATERIAL SYMBOLS

TOPSOIL SILT SANDSTONE
SAND PEAT LIMESTONE
GRAVEL CLAY IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-51-65

DRAWN BY PR/MAS | PLANS CK'D. NAR

SUBSURFACE EXPLORATION

SHEET 5

463

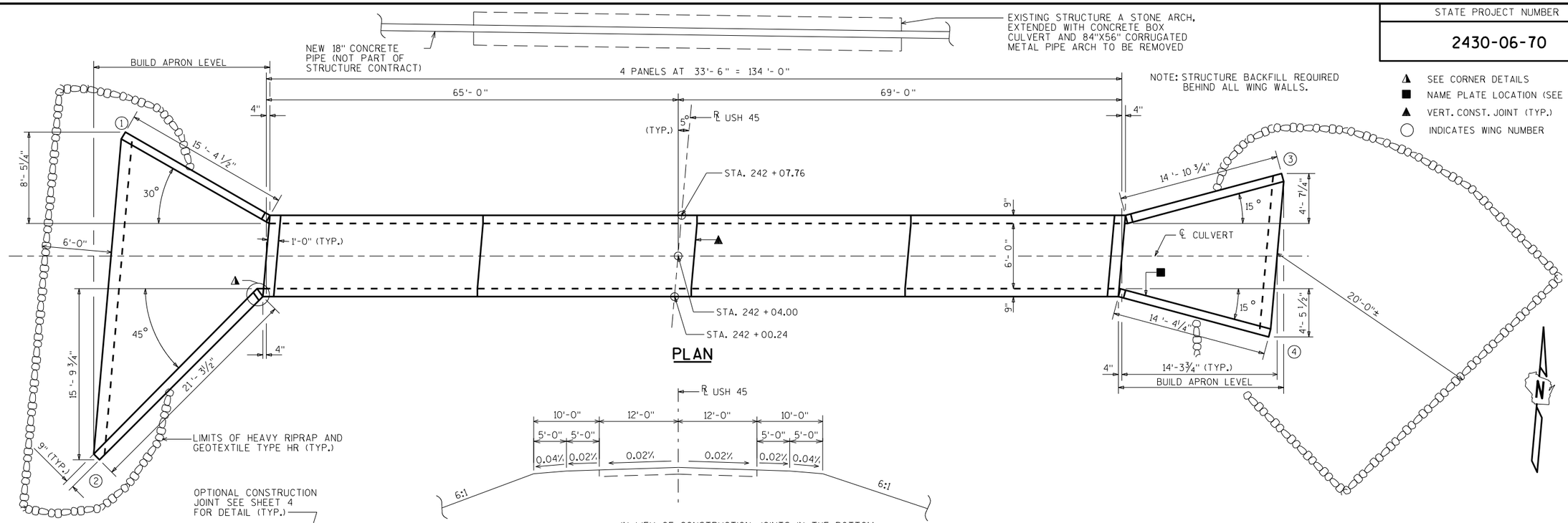
SCALE = 10

8

8

STATE PROJECT NUMBER

2430-06-70



LIST OF DRAWINGS

1. LAYOUT
2. BOX DETAILS
3. APRON DETAILS
4. DETAILS
5. SUBSURFACE EXPLORATION

DESIGN DATA

LIVE LOAD:
DESIGN LOADING; HL-93
INVENTORY RATING FACTOR: RF=1.05
OPERATING RATING FACTOR: RF=1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 255 (KIPS)

EARTHLOAD: DESIGNED FOR 6.0 TO 8.0 FT. OF FILL.

MATERIAL PROPERTIES
CONCRETE MASONRY, GRADE A-FA ——— f'_c = 3500 P.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60000 P.S.I.
INVERTS SET BELOW STREAM BED AS SHOWN.

TRAFFIC VOLUME

USH 45
A.D.T. = 4300 (2033)
R.D.S. = 60 M.P.H.

HYDRAULIC DATA

100 YEAR FREQUENCY
Q_{100} = 250 C.F.S.
VEL. = 11.0 F.P.S.
HW. = EL. 764.1
DRAINAGE AREA = 0.8 SQ. MI.
OVERTOPPING RDWY. = N.A.

2 YEAR FREQUENCY
Q_2 = 65 C.F.S.
HW. = EL. 760.3

TOTAL ESTIMATED QUANTITIES

BID ITEMS

203.0200	REMOVING OLD STRUCTURE STA. 242+04.00	1	LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-51-67	1	LS
210.2500	BACKFILL STRUCTURE TYPE B	800	TON
311.0115	BREAKER RUN	90	CY
504.0100	CONCRETE MASONRY CULVERTS	134	CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	15,210	LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1,630	LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	27	SY
606.0300	RIPRAP HEAVY	80	CY
645.0105	GEOTEXTILE TYPE C	270	SY
645.0120	GEOTEXTILE TYPE HR	120	SY

NON-BID ITEMS

FILLER	3/4"	SIZE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES SHALL BE THE EXISTING GROUNDLINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

PLACE A 18" (MIN.) WIDE SHEET OF 'RUBBERIZED MEMBRANE WATERPROOFING' ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DEVELOPMENT SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS ON CHAPTER 36 STANDARDS OF THE CURRENT WISC. DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BREAKER RUN, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

STRUCTURE DESIGN CONTACTS:
DANIELLE DE TENNIS (608) 266-8689
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES
ACCEPTED William C. Dreher 10/24/16
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-51-67

USH 45 OVER TRIBUTARY WEST BR. OF ROOT CANAL

COUNTY RACINE | TOWN, ~~CITY, VILLAGE~~ YORKVILLE

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MH	DFD	DFD	NAR

LAYOUT

SHEET 1 OF 5

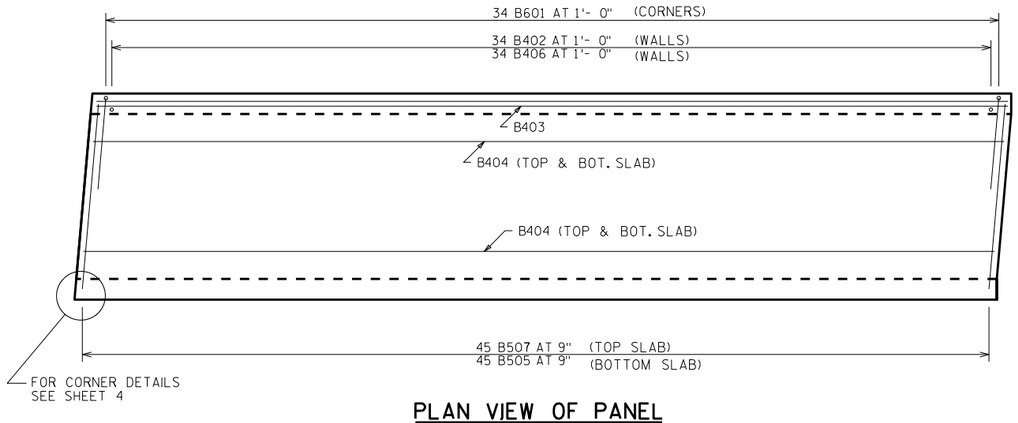
464

I.D. 2430-06-00E

DATE: AUG 2016

SCALE = 4

STATE PROJECT NUMBER
2430-06-70



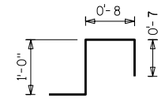
PLAN VIEW OF PANEL

USE IDENTICAL STEEL IN OTHER PANELS.
APRON AND HEADER ARE NOT SHOWN.

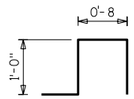
BILL OF BARS

THE FIRST OR FIRST AND SECOND DIGIT OF THE MARK SIGNIFIES THE BAR SIZE. THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF A "L" SHAPED BAR. LONGER BARS OF THE SAME SIZE MAY BE SUBSTITUTED FOR SHORTER BARS. PAYMENT BASED ON BAR LENGTHS AS DETAILED.

MARK	NUMBER REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B601	544	9-2	4-8	NO	CORNERS
B402	272	2-2	NO	NO	WALLS-DOWELS VERT.
B403	80	33-0	NO	NO	TOP&BOTTOM SLAB & WALL
B404	32	33-0	NO	NO	BOTTOM SLAB LONGIT.
B505	180	7-0	NO	NO	BOTTOM SLAB TRANS.
B406	272	6-0	NO	NO	WALLS VERT.
B507	180	7-0	NO	NO	TOP SLAB TRANS.
B408	4	7-0	NO	NO	HEADERS HORIZ.
B309	11	2-7	YES	NO	HEADER STIRRUPS VERT.
B310	11	2-11	YES	NO	HEADER STIRRUPS VERT.
B511	78	4-0	NO	NO	VERT.CONST.JOINT



B309



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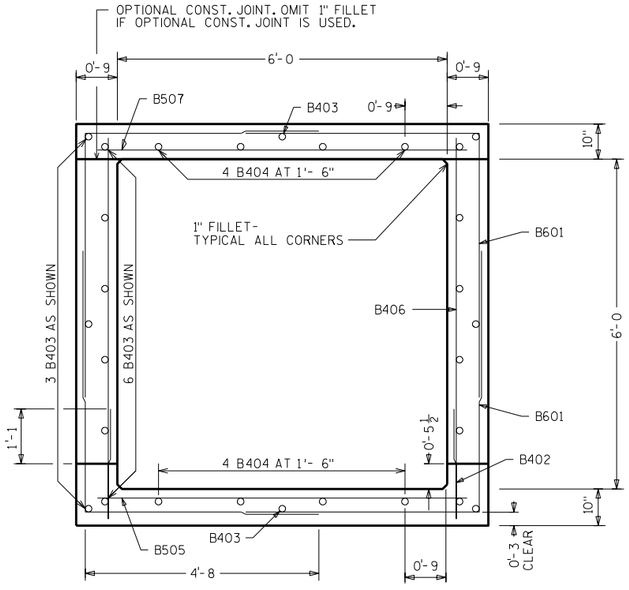
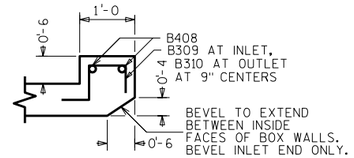
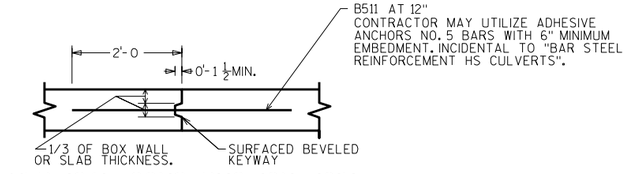


TYPICAL SECTION THRU BOX



SECTION THRU TOP HEADER



VERTICAL CONSTRUCTION JOINT

2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-51-67

DRAWN BY RIES | PLANS CK'D. NAR

BOX DETAILS

SHEET 2

465

8

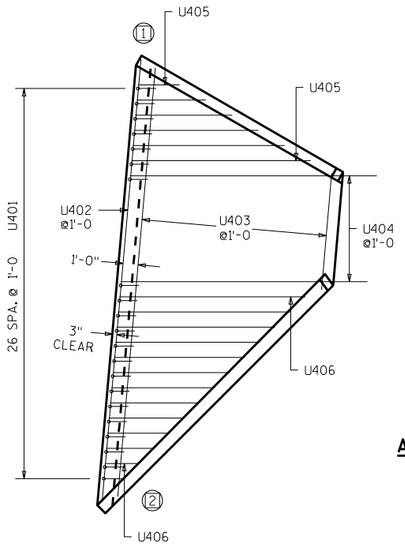
8

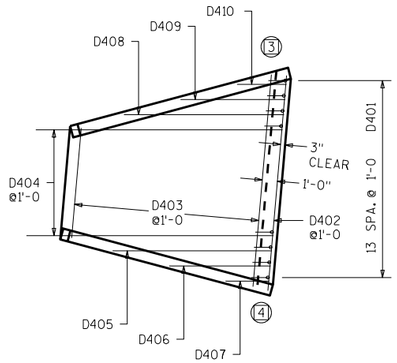
SCALE = 4

STATE PROJECT NUMBER

2430-06-70

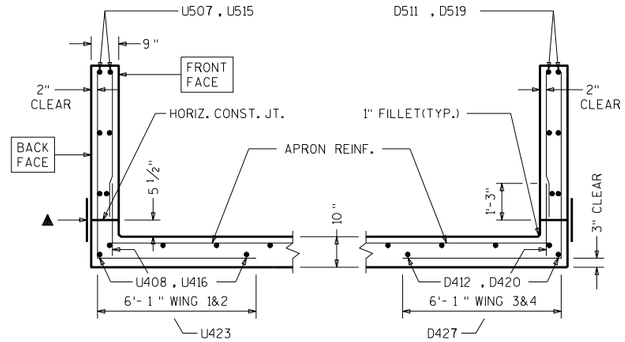
(1) INDICATES WING NUMBER





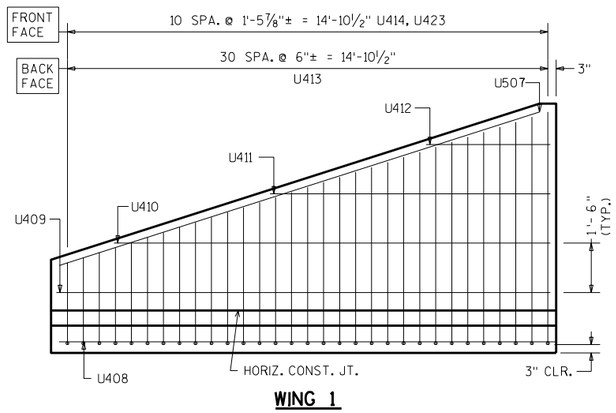
APRON REINF.

▲ 18" RUBBERIZED MEMBRANE WATER-PROOFING. PLACE ALONG HORIZ. CONST. JT. FOR ENTIRE WING LENGTH (TYP.).



SECTION THRU WINGS

AT RIGHT ANGLES TO WING WALLS



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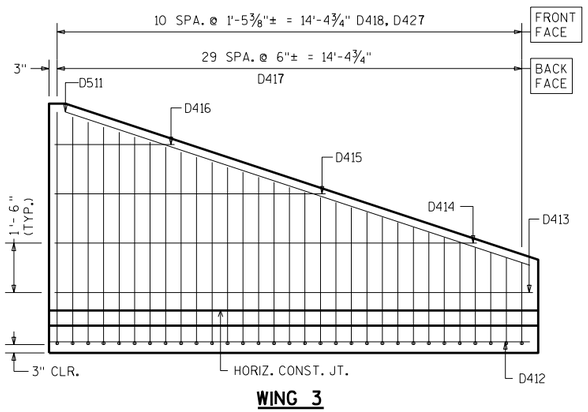
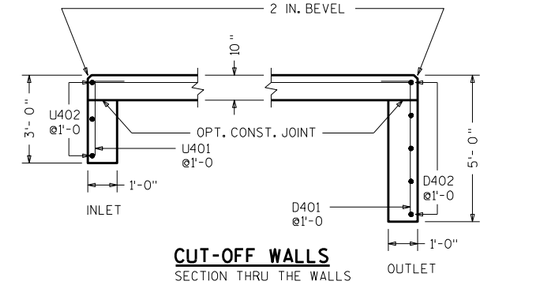
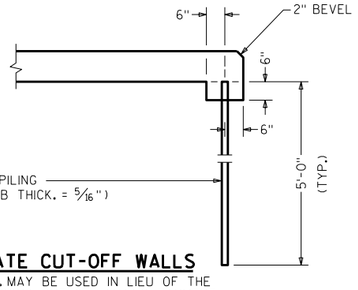


WING 3



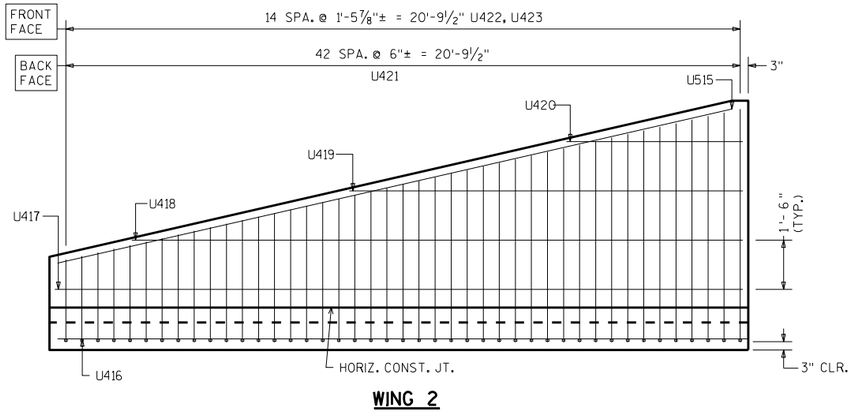
CUT-OFF WALLS

SECTION THRU THE WALLS

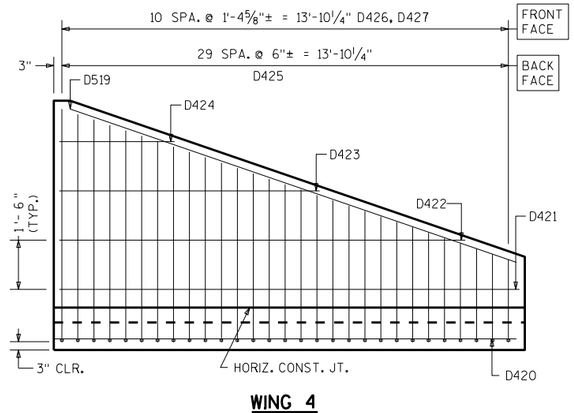


ALTERNATE CUT-OFF WALLS

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.



WING 2



WING 4

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-51-67

DRAWN BY DFD | PLANS CK'D. NAR

APRON DETAILS

SHEET 3

466

SCALE = 4

8

8

STATE PROJECT NUMBER

2430-06-70

BILL OF BARS

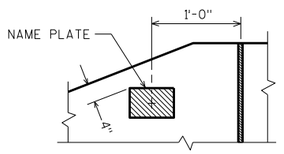
THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.
THE DIMENSION IN THE BENT COLUMN IS THE OUT TO OUT HORIZONTAL LEG OF AN L - SHAPED BAR.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
U401		27	3 - 6	1 - 0		INLET APRON AND CUTOFF WALL
U402		3	29 - 2			INLET APRON AND CUTOFF WALL
U403		13	18 - 8		*	" APRON
U404		8	16 - 4			" APRON
U405		6	7 - 10		*	" APRON
U406		12	8 - 1		*	" APRON
U507	X	2	15 - 8			WING 1 -HORIZONTAL - BOTH FACES
U408	X	2	15 - 0			WING "-HORIZONTAL -APRON BOTT. SLAB
U409	X	2	15 - 0			WING "-HORIZONTAL - BOTH FACES
U410	X	2	13 - 3			WING "-HORIZONTAL - BOTH FACES
U411	X	2	8 - 9			WING "-HORIZONTAL - BOTH FACES
U412	X	2	4 - 1			WING "-HORIZONTAL - BOTH FACES
U413	X	31	10 - 11	6 - 1	*	WING "-VERTICAL - BACK FACE
U414	X	11	3 - 10		*	WING "-VERTICAL - FRONT FACE
U515	X	2	21 - 4			WING 2 -HORIZONTAL - BOTH FACES
U416	X	2	20 - 10			WING "-HORIZONTAL -APRON BOTT. SLAB
U417	X	2	20 - 10			WING "-HORIZONTAL - BOTH FACES
U418	X	2	18 - 6			WING "-HORIZONTAL - BOTH FACES
U419	X	2	12 - 0			WING "-HORIZONTAL - BOTH FACES
U420	X	2	5 - 6			WING "-HORIZONTAL - BOTH FACES
U421	X	43	10 - 11	6 - 1	*	WING "-VERTICAL - BACK FACE
U422	X	15	3 - 10		*	WING "-VERTICAL - FRONT FACE
U423	X	26	2 - 4			WINGS 1 AND 2 - DOWELS - FRONT FACE
D401		14	5 - 6	1 - 0		OUTLET APRON AND CUTOFF WALL
D402		5	14 - 0			OUTLET APRON AND CUTOFF WALL
D403		13	10 - 11		*	" APRON
D404		8	16 - 4			" APRON
D405		1	10 - 6			" APRON
D406		1	6 - 8			" APRON
D407		1	2 - 9			" APRON
D408		1	10 - 8			" APRON
D409		1	7 - 0			" APRON
D410		1	3 - 4			" APRON
D511	X	2	15 - 2			WING 3 -HORIZONTAL - BOTH FACES
D412	X	2	14 - 6			WING "-HORIZONTAL -APRON BOTT. SLAB
D413	X	2	14 - 6			WING "-HORIZONTAL - BOTH FACES
D414	X	2	12 - 10			WING "-HORIZONTAL - BOTH FACES
D415	X	2	8 - 5			WING "-HORIZONTAL - BOTH FACES
D416	X	2	4 - 0			WING "-HORIZONTAL - BOTH FACES
D417	X	30	10 - 11	6 - 1	*	WING "-VERTICAL - BACK FACE
D418	X	11	3 - 10		*	WING "-VERTICAL - FRONT FACE
D519	X	2	14 - 8			WING 4 -HORIZONTAL - BOTH FACES
D420	X	2	14 - 0			WING "-HORIZONTAL -APRON BOTT. SLAB
D421	X	2	14 - 0			WING "-HORIZONTAL - BOTH FACES
D422	X	2	12 - 5			WING "-HORIZONTAL - BOTH FACES
D423	X	2	8 - 2			WING "-HORIZONTAL - BOTH FACES
D424	X	2	3 - 10			WING "-HORIZONTAL - BOTH FACES
D425	X	29	10 - 11	6 - 1	*	WING "-VERTICAL - BACK FACE
D426	X	11	3 - 10		*	WING "-VERTICAL - FRONT FACE
D427	X	22	2 - 4			WINGS 3 AND 4 - DOWELS - FRONT FACE

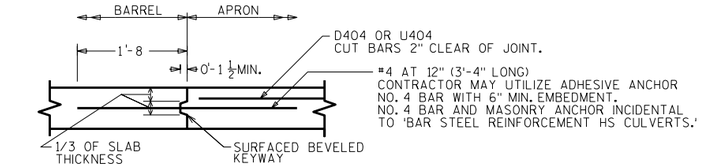
* LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE --- BUNDLE AND TAG EACH SERIES SEPARATELY

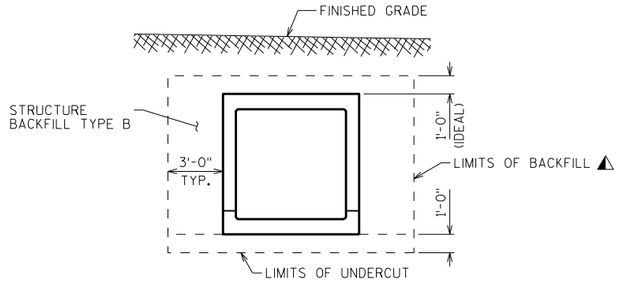
BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U403	1 SERIES OF 13	8 - 8 TO 28 - 7
U405	1 SERIES OF 6	3 - 3 TO 12 - 4
U406	1 SERIES OF 12	3 - 1 TO 13 - 1
U413	1 SERIES OF 31	8 - 6 TO 13 - 3
U414	1 SERIES OF 11	1 - 5 TO 6 - 2
U421	1 SERIES OF 43	8 - 6 TO 13 - 3
U422	1 SERIES OF 15	1 - 5 TO 6 - 2
D403	1 SERIES OF 13	7 - 8 TO 14 - 2
D417	1 SERIES OF 30	8 - 6 TO 13 - 3
D418	1 SERIES OF 11	1 - 5 TO 6 - 2
D425	1 SERIES OF 29	8 - 6 TO 13 - 3
D426	1 SERIES OF 11	1 - 5 TO 6 - 2



NAME PLATE LOCATION
WING 4

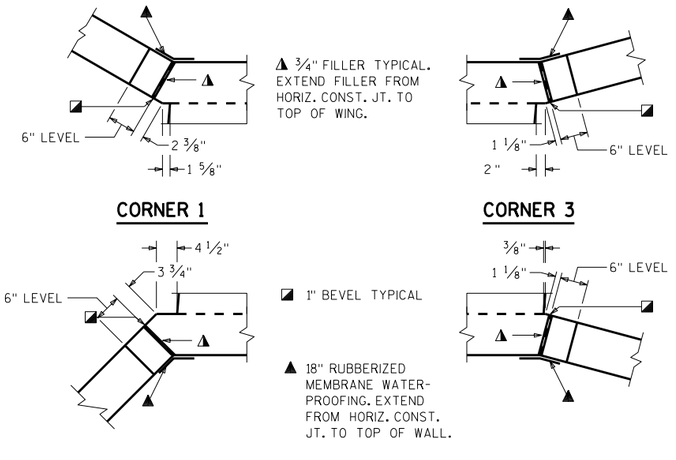


OPTIONAL CONSTRUCTION JOINT
2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING MAY BE USED IN LIEU OF CONST. JT. IN BOTTOM SLAB.



STRUCTURE BACKFILL LIMITS

◭ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.



CORNER DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-51-67

DRAWN BY DFD | PLANS CK'D. NAR

DETAILS

SHEET 4

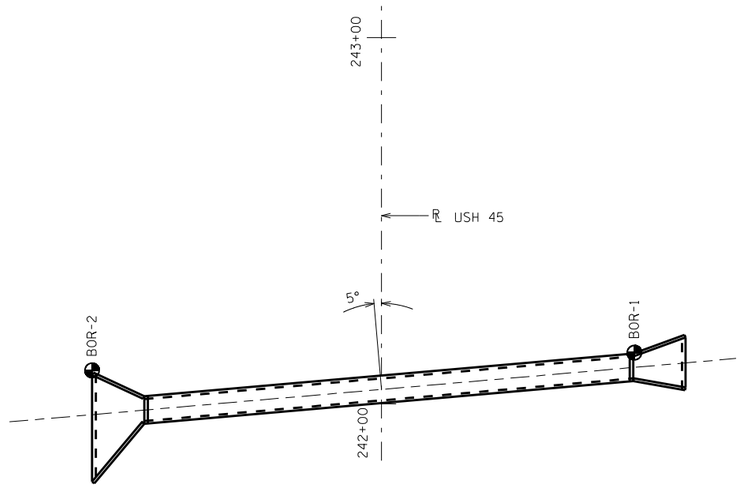
467

SCALE = 4

8

8

USH 45 OVER TRIB TO W BR ROOT CANAL
7TH AVE - STH 20 UNION GROVE



STATE PROJECT NUMBER

2430-06-70

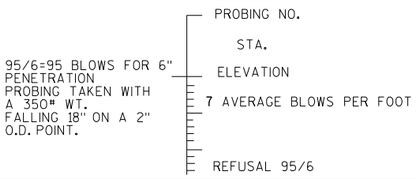
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

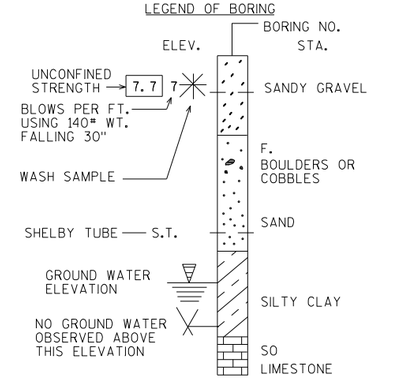
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



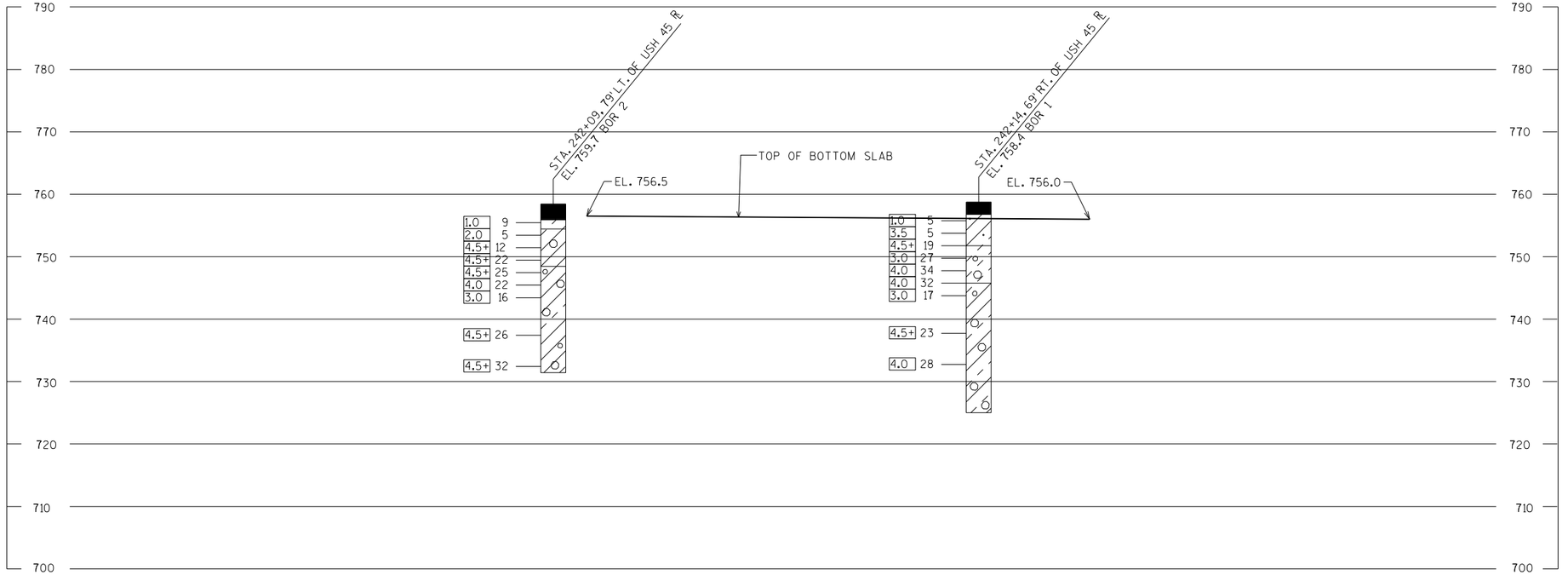
LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.



NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-51-67

DRAWN BY PR/MAS | PLANS CK'D. NAR

SUBSURFACE EXPLORATION

SHEET 5

468

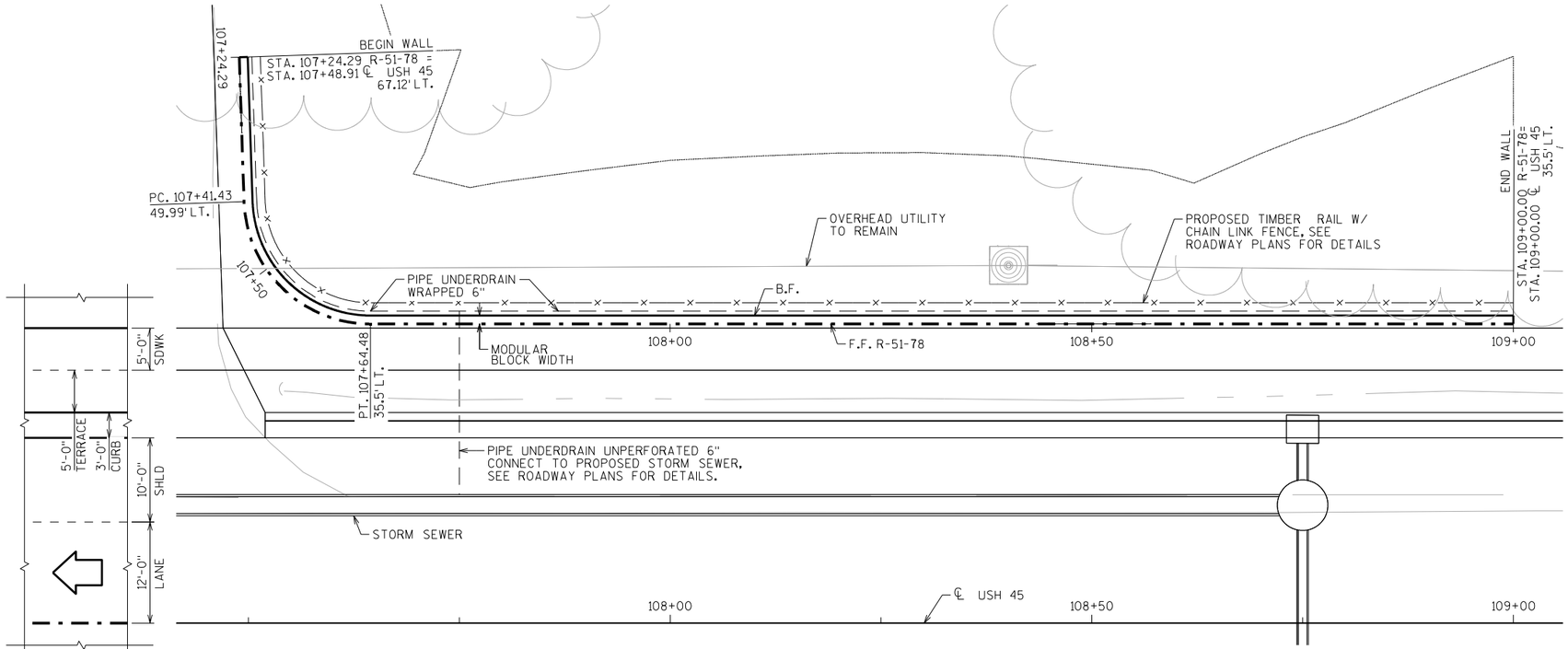
SCALE = 10

8

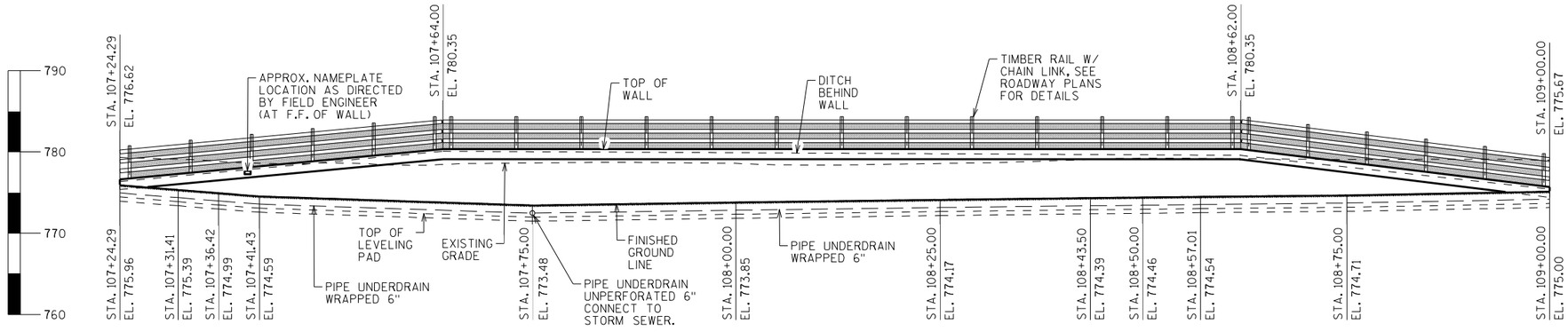
8

STATE PROJECT NUMBER

2430-06-70



PLAN



ELEVATION LOOKING WEST

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATION AND SHOP DRAWINGS FOR THE RETAINING WALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH LRFD/QMP"

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN IN THESE PLANS.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPE BEHIND THE WALL.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 100 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

TRAFFIC VOLUME

USH 45

ADT = 8900 (2033)
R.D.S. = 50 M.P.H.

CURVE DATA

RETAINING WALL

P.I. = 107+55.93
△ = 88°03'49"
D = 381°58'19"
T = 14.50'
L = 23.06'
R = 15.00'
P.C. = 107+41.43
P.T. = 107+64.48

STRUCTURE DESIGN CONTACTS:

STEVE DOOCY (608) 261-6063
AARON BONK (608) 261-0261

ALLOWABLE WALL SYSTEMS

WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH LRFD/QMP

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES, WALL DATA AND NOTES
3. WALL DETAILS
4. SUBSURFACE EXPLORATION

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Duchac — CHIEF STRUCTURES DESIGN ENGINEER — 10/24/16 DATE

STRUCTURE R-51-78

USH 45

COUNTY: RACINE — ~~TOWN/CITY~~/VILLAGE: UNION GROVE

DESIGN SPEC.: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
SAD	MSC	SAD	MSC

GENERAL PLAN

SHEET 1 OF 4

469

I.D. 2430-06-00G

DATE: **AUG 2016**

SCALE = 8.0

8

8

STATE PROJECT NUMBER

2430-06-70

SOIL PARAMETERS

SOIL DESCRIPTION	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL BEHIND THE WALL IN THE REINFORCING ZONE	30	0	120
FILL, GRANULAR BEHIND THE THE REINFORCING ZONE	31	0	120
B-1 - STA. 107+65 - 52'LT OF ℄ USH 45			
CLAY, BROWN, SOME SILT SEAMS, TRACE GRAVEL EL 772.00 TO 764.50	0	4500	130
SAND AND GRAVEL, BROWN, MEDIUM TO COARSE, LITTLE SILT EL 764.50 AND BELOW	34	0	120
B-2 - STA. 108+60 - 52'LT OF ℄ USH 45			
CLAY, BROWN, SOME FINE TO MEDIUM GRAVEL EL. 772.00 TO EL 762.00	0	4500	130
CLAY, GRAY, SOME SILT AND SAND SEAMS EL 762.00 TO 757.00	0	1750	120
SILT, GRAY, TRACE SAND EL 757.00 AND BELOW	0	1750	125

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS		
WALL HEIGHT (FEET)	8.4	7.3
EXPOSED WALL HEIGHT (FEET)	6.9	5.8
MINIMUM LENGTH OF REINFORCEMENT (FEET)	6.0	6.0
LENGTH OF REINFORCEMENT TO HEIGHT RATIO	0.72	0.82
BORING LOCATION USED	B-1	B-2
APPROXIMATE WALL STATION	107+65	108+60
BACK SLOPE ABOVE WALL	4:1	4:1
CAPACITY TO DEMAND RATIO (CDR)		
SLIDING (CDR > 1.0)	1.7	1.7
ECCENTRICITY (CDR > 1.0)	1.6	1.7
OVERALL STABILITY (CDR > 1.0)	7.4	NA [3]
BEARING RESISTANCE (CDR > 1.0)	3.3	4.1
FACTORED BEARING RESISTANCE (PSF)	4800	5000

NOTES:
1. THE WALL HEIGHT INCLUDES AND EMBEDMENT OF 1'-6".
2. CDR REQUIREMENTS AND LOAD AND RESISTANCE FACTORS ARE PRESENTED IN CHAPTER 14 OF THE BRIDGE MANUAL.
3. NA NOT APPLICABLE, GLOBAL SLOPE STABILITY WAS EVALUATED AT THE CRITICAL WALL LOCATION.

GEOMETRY TABLE

WALL STATION	℄ USH 45 STATION	OFFSET TO F.F. WALL	TOP OF WALL ELEV.	FINISHED GRADE ELEV.	EXISTING GRADE ELEV.
107+24.29	107+48.91	67.12' LT	776.62	775.96	779.30
107+31.41	107+49.16	60.01' LT	777.29	775.39	779.10
107+36.42	107+49.32	55.00' LT	777.76	774.99	778.80
107+41.43	107+49.49	49.99' LT	778.23	774.59	778.60
107+64.00	107+64.00	35.51' LT	780.35	773.84	778.50
107+64.48	107+64.48	35.50' LT	780.35	773.83	778.50
107+75.00	107+75.00	35.50' LT	780.35	773.48	778.60
108+00.00	108+00.00	35.50' LT	780.35	773.85	778.60
108+25.00	108+25.00	35.50' LT	780.35	774.17	778.60
108+43.50	108+43.50	35.50' LT	780.35	774.39	779.10
108+50.00	108+50.00	35.50' LT	780.35	774.46	779.20
108+57.01	108+57.01	35.50' LT	780.35	774.54	779.20
108+62.00	108+62.00	35.50' LT	780.35	774.59	779.20
108+75.00	108+75.00	35.50' LT	778.75	774.71	779.00
109+00.00	109+00.00	35.50' LT	775.67	775.00	779.00

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	25
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	175
SPV.0165	WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH LRFD/QMP	SF	1155

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EPOXY COATED.

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL R-51-78.

THE EXISTING GROUND LINE IS THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

THE PLAN QUANTITY FOR THE BID ITEM "[WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH LRFD/QMP]" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO A CONSTANT DEPTH OF [1'-6"] BELOW FINISHED GRADE.

CONTRACTOR TO REMOVE 1'-0" OF TOPSOIL, SILT AND CLAY BELOW THE LEVELING PAD AND REPLACE WITH GRANULAR BACKFILL IN THE AREAS THAT TOPSOIL, SILT AND CLAY ARE ENCOUNTERED AS TO MITIGATE SLIDING CONCERNS.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-78

DRAWN BY SAD | PLANS CK'D. MSC

QUANTITIES, WALL DATA & NOTES

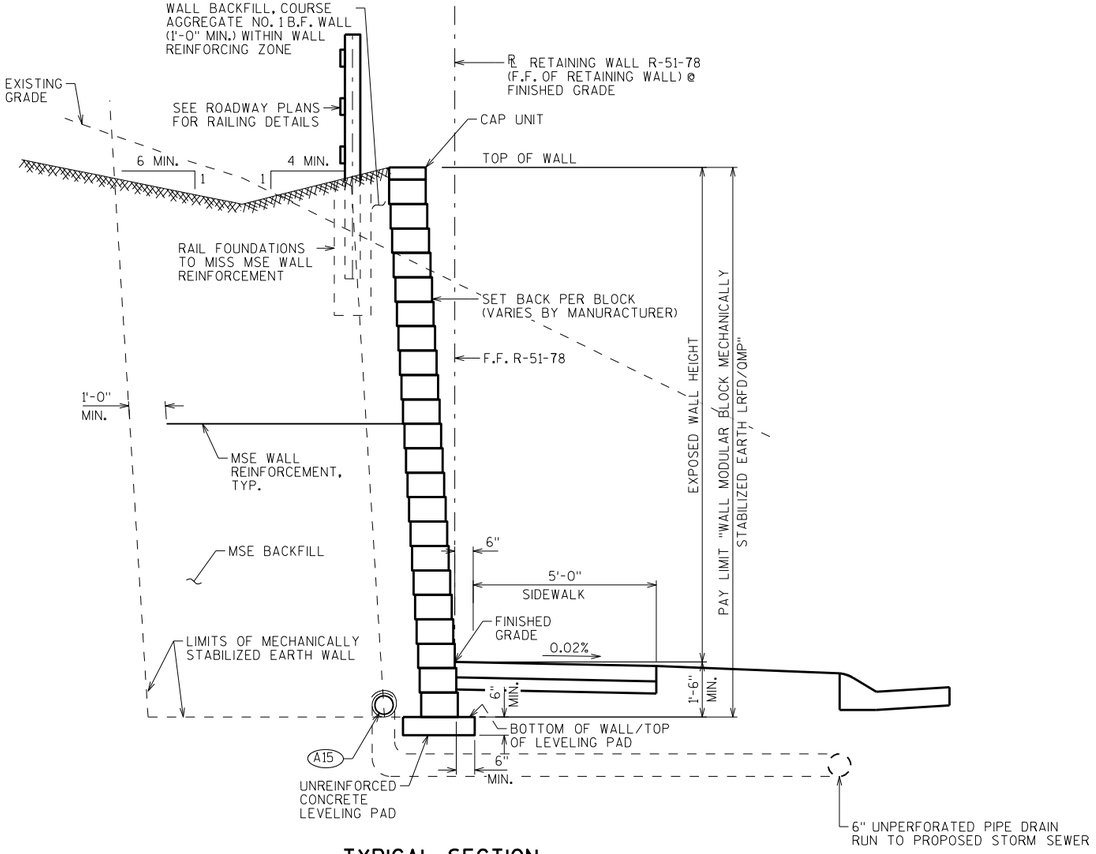
SHEET 2

470

SCALE = 1.0

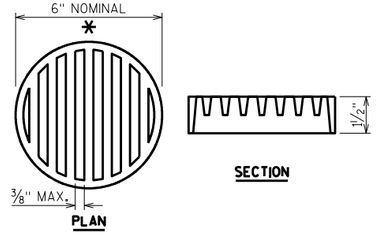
STATE PROJECT NUMBER

2430-06-70



TYPICAL SECTION

LOOKING NORTH
STA. 107+24.29.00 TO 109+00.00

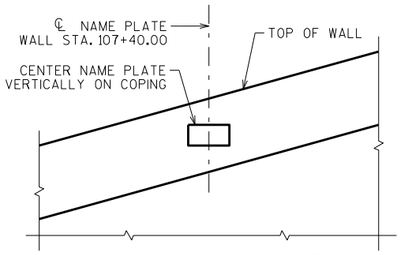


RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

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 ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



NAME PLATE DETAIL

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-78

DRAWN BY SAD | PLANS CK'D. MSC

WALL DETAILS

SHEET 3

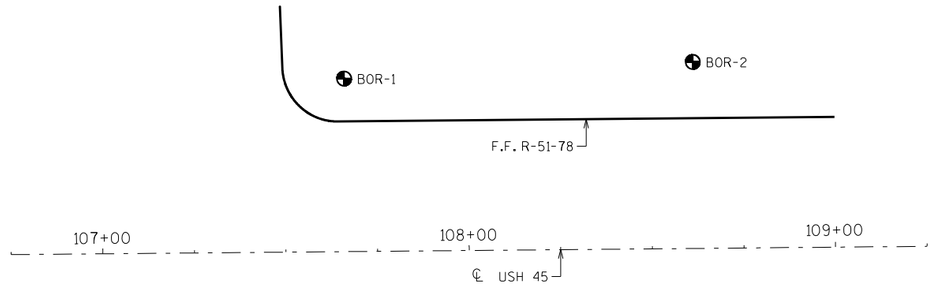
471

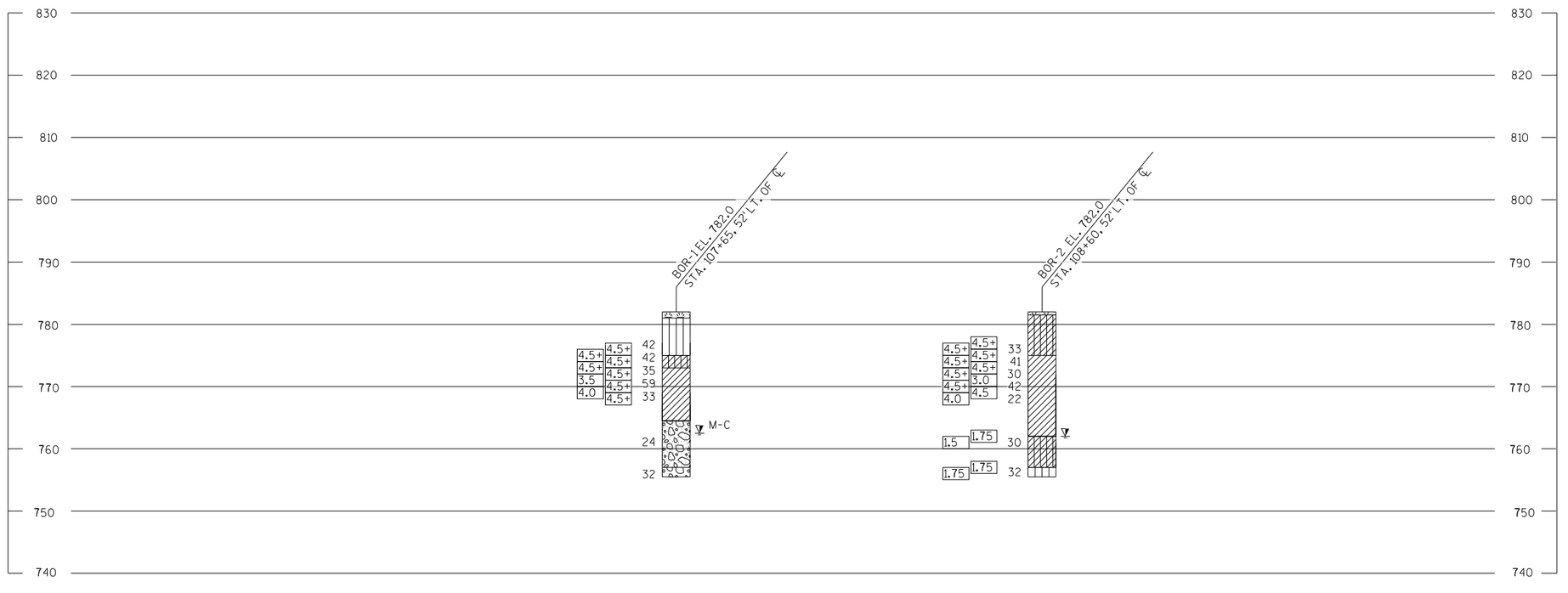
SCALE = 2.0

8

8

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	4/25/2016	174772.849	567611.590
2	4/26/2016	174868.026	567607.486
BORINGS COMPLETED BY: WISDOT			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) RACINE COUNTY			





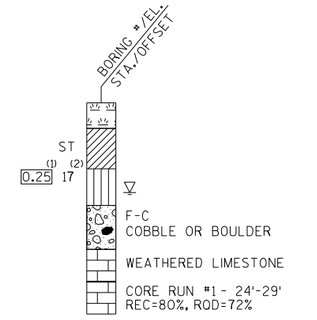
STATE PROJECT NUMBER

2430-06-70

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-51-78

DRAWN BY TLP | PLANS CK'D. MSC

SUBSURFACE EXPLORATION

SHEET 4

472

8

8

SCALE =

USH 45 - STAGE 1 CONSTRUCTION													
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc *Note 6	Cut 1.00	Expanded Fill 1.20 *Note 9	Expanded Marsh Backfill 1.50 *Note 7	Mass Ordinate
97+75	0.00	128.15	28.84	2.99	0.00	0	0	0	0	0	0	0	0
98+00	25.00	135.65	28.84	3.62	0.00	122	27	3	0	122	4	0	92
98+50	50.00	132.36	28.84	18.58	0.00	248	53	21	0	370	28	0	262
99+00	50.00	121.16	28.84	12.45	0.00	235	53	29	0	605	63	0	409
99+50	50.00	193.73	28.84	18.11	0.00	292	53	28	0	897	97	0	613
100+00	50.00	246.79	28.84	28.06	0.00	408	53	43	0	1,304	148	0	916
100+50	50.00	276.99	28.84	32.31	0.00	485	53	56	0	1,789	215	0	1,281
101+00	50.00	302.50	28.84	36.51	0.00	537	53	64	0	2,326	292	0	1,687
101+50	50.00	321.58	28.84	56.49	0.00	578	53	86	0	2,904	395	0	2,108
102+00	50.00	300.21	28.84	79.21	0.00	576	53	126	0	3,480	546	0	2,480
102+50	50.00	269.06	28.84	242.29	0.00	527	53	298	0	4,007	903	0	2,596
103+00	50.00	175.67	28.84	421.25	0.00	412	53	614	0	4,419	1,640	0	2,218
103+50	50.00	90.90	28.84	356.13	0.00	247	53	720	0	4,665	2,504	0	1,547
104+00	50.00	108.35	28.84	322.37	0.00	184	53	628	0	4,850	3,258	0	924
104+50	50.00	112.02	28.84	299.16	0.00	204	53	575	0	5,054	3,948	0	384
105+00	50.00	108.38	28.84	173.19	0.00	204	53	437	0	5,258	4,473	0	10
105+50	50.00	221.66	28.84	60.32	0.00	306	53	216	0	5,564	4,733	0	3
106+00	50.00	253.66	28.84	46.26	0.00	440	53	99	0	6,004	4,851	0	271
106+50	50.00	401.42	28.84	14.97	0.00	607	53	57	0	6,610	4,919	0	756
107+00	50.00	323.08	28.84	0.96	0.00	671	53	15	0	7,281	4,937	0	1,356
107+50	50.00	392.60	28.84	0.00	0.00	663	53	1	0	7,944	4,938	0	1,964
108+00	50.00	430.62	28.84	0.00	0.00	762	53	0	0	8,706	4,938	0	2,673
108+50	50.00	505.74	28.84	0.00	0.00	867	53	0	0	9,573	4,938	0	3,487
109+00	50.00	390.58	28.84	0.00	0.00	830	53	0	0	10,403	4,938	0	4,263
109+50	50.00	257.18	28.84	0.66	0.00	600	53	1	0	11,003	4,939	0	4,809
110+00	50.00	183.17	28.84	18.69	0.00	408	53	18	0	11,410	4,960	0	5,142
110+50	50.00	134.81	28.84	50.84	0.00	294	53	64	0	11,705	5,037	0	5,306
111+00	50.00	111.00	28.84	110.09	0.00	228	53	149	0	11,932	5,216	0	5,301
111+50	50.00	108.59	28.84	133.25	0.00	203	53	225	0	12,136	5,487	0	5,180
112+00	50.00	103.99	28.84	174.08	0.00	197	53	285	0	12,333	5,828	0	4,982
112+50	50.00	109.55	28.84	207.97	0.00	198	53	354	0	12,530	6,253	0	4,702
113+00	50.00	143.59	28.84	178.20	0.00	234	53	358	0	12,765	6,682	0	4,454
113+50	50.00	151.74	28.84	152.97	0.00	273	53	307	0	13,038	7,050	0	4,306
114+00	50.00	225.91	28.84	104.34	0.00	350	53	238	0	13,388	7,336	0	4,317
114+50	50.00	356.41	28.84	22.76	0.00	539	53	118	0	13,927	7,477	0	4,661
115+00	50.00	602.06	28.84	0.00	0.00	887	53	21	0	14,814	7,502	0	5,470
115+50	50.00	717.89	28.84	0.00	0.00	1,222	53	0	0	16,037	7,502	0	6,639
116+00	50.00	658.19	28.84	0.00	0.00	1,274	53	0	0	17,311	7,502	0	7,859
116+50	50.00	520.20	28.84	0.00	0.00	1,091	53	0	0	18,402	7,502	0	8,897
116+65	15.00	465.59	28.84	0.41	0.00	274	16	0	0	18,676	7,502	0	9,155
116+70	5.00	424.60	28.84	1.10	0.00	82	5	0	0	18,758	7,502	0	9,232
116+75	5.00	410.53	28.84	2.72	0.00	77	5	0	0	18,836	7,503	0	9,303
116+80	5.00	398.15	28.84	5.35	0.00	75	5	1	0	18,910	7,504	0	9,372
116+85	5.00	388.54	28.84	7.73	0.00	73	5	1	0	18,983	7,505	0	9,438
116+90	5.00	391.27	28.84	9.95	0.00	72	5	2	0	19,055	7,507	0	9,503
116+95	5.00	389.89	28.84	12.25	0.00	72	5	2	0	19,128	7,510	0	9,567

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

USH 45 - STAGE 1 CONSTRUCTION													
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc *Note 6	Cut 1.00	Expanded Fill 1.20 *Note 9	Expanded Marsh Backfill 1.50 *Note 7	Mass Ordinate
117+00	5.00	399.62	28.84	14.70	0.00	73	5	2	0	19,201	7,513	0	9,632
117+05	5.00	415.61	28.84	17.03	0.00	75	5	3	0	19,276	7,516	0	9,699
117+10	5.00	404.73	28.84	19.21	0.00	76	5	3	0	19,352	7,520	0	9,765
117+15	5.00	366.62	28.84	22.35	0.00	71	5	4	0	19,424	7,525	0	9,827
117+20	5.00	326.62	28.84	23.28	0.00	64	5	4	0	19,488	7,530	0	9,881
117+25	5.00	289.95	28.09	19.25	0.00	57	5	4	0	19,545	7,535	0	9,928
117+30	5.00	265.48	28.09	11.03	0.00	51	5	3	0	19,596	7,538	0	9,970
117+35	5.00	251.25	28.09	4.15	0.00	48	5	1	0	19,644	7,540	0	10,011
117+40	5.00	230.42	28.09	0.14	0.00	45	5	0	0	19,689	7,540	0	10,050
117+41.54	1.54	226.41	28.09	0.00	0.00	13	2	0	0	19,702	7,540	0	10,062
117+45	3.46	243.91	28.09	0.00	0.00	30	4	0	0	19,732	7,540	0	10,088
117+50	5.00	264.50	28.09	0.00	0.00	47	5	0	0	19,779	7,540	0	10,130
117+55	5.00	280.07	28.09	0.00	0.00	50	5	0	0	19,830	7,540	0	10,175
117+60	5.00	294.95	28.09	0.00	0.00	53	5	0	0	19,883	7,540	0	10,223
117+65	5.00	312.70	28.09	0.00	0.00	56	5	0	0	19,939	7,540	0	10,275
117+70	5.00	314.27	28.09	0.00	0.00	58	5	0	0	19,997	7,540	0	10,327
117+75	5.00	249.61	28.09	0.20	0.00	52	5	0	0	20,049	7,540	0	10,374
117+80	5.00	227.74	28.84	0.28	0.00	44	5	0	0	20,094	7,540	0	10,413
117+85	5.00	217.15	28.84	0.60	0.00	41	5	0	0	20,135	7,540	0	10,449
117+90	5.00	210.49	28.84	1.01	0.00	40	5	0	0	20,174	7,540	0	10,483
117+95	5.00	205.27	28.84	1.32	0.00	38	5	0	0	20,213	7,541	0	10,516
117+95.35	0.35	205.00	28.84	1.34	0.00	3	0	0	0	20,215	7,541	0	10,518
118+00	4.65	203.70	28.84	4.61	0.00	35	5	1	0	20,251	7,541	0	10,548
118+50	50.00	181.35	28.84	9.26	0.00	357	53	13	0	20,607	7,557	0	10,836
119+00	50.00	169.75	28.84	18.52	0.00	325	53	26	0	20,932	7,588	0	11,076
119+50	50.00	156.54	28.84	24.30	0.00	302	53	40	0	21,234	7,635	0	11,277
120+00	50.00	142.99	28.84	36.35	0.00	277	53	56	0	21,512	7,703	0	11,434
120+50	50.00	139.29	28.84	37.05	0.00	261	53	68	0	21,773	7,784	0	11,560
121+00	50.00	195.79	28.84	10.55	0.00	310	53	44	0	22,083	7,837	0	11,764
121+50	50.00	74.51	28.84	5.32	0.00	250	53	15	0	22,334	7,855	0	11,944
122+00	50.00	163.66	28.84	17.03	0.00	221	53	21	0	22,554	7,879	0	12,086
122+50	50.00	197.39	28.84	2.55	0.00	334	53	18	0	22,888	7,901	0	12,345
123+00	50.00	261.52	28.84	0.00	0.00	425	53	2	0	23,313	7,904	0	12,714
123+50	50.00	304.16	28.84	0.00	0.00	524	53	0	0	23,837	7,904	0	13,184
124+00	50.00	319.78	28.84	0.00	0.00	578	53	0	0	24,415	7,904	0	13,708
124+50	50.00	260.14	28.84	7.17	0.00	537	53	7	0	24,952	7,912	0	14,184
125+00	50.00	278.58	28.84	10.98	0.00	499	53	17	0	25,451	7,932	0	14,609
125+50	50.00	305.63	28.84	4.93	0.00	541	53	15	0	25,992	7,950	0	15,079
126+00	50.00	377.07	28.84	0.00	0.00	632	53	5	0	26,624	7,955	0	15,652
126+50	50.00	440.84	28.84	0.00	0.00	757	53	0	0	27,381	7,955	0	16,356
127+00	50.00	501.58	28.84	0.00	0.00	873	53	0	0	28,254	7,955	0	17,175
127+50	50.00	593.75	28.84	0.00	0.00	1,014	53	0	0	29,268	7,955	0	18,136
128+00	50.00	607.39	28.84	0.00	0.00	1,112	53	0	0	30,380	7,955	0	19,195
128+50	50.00	599.05	28.84	0.00	0.00	1,117	53	0	0	31,497	7,955	0	20,259
129+00	50.00	544.21	28.84	0.00	0.00	1,059	53	0	0	32,556	7,955	0	21,264
129+50	50.00	540.46	28.84	0.00	0.00	1,004	53	0	0	33,560	7,955	0	22,215

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

USH 45 - STAGE 1 CONSTRUCTION													
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc *Note 6	Cut 1.00	Expanded Fill 1.20 *Note 9	Expanded Marsh Backfill 1.50 *Note 7	Mass Ordinate
130+00	50.00	474.19	28.84	0.00	0.00	939	53	0	0	34,499	7,955	0	23,101
130+50	50.00	392.62	28.84	0.00	0.00	803	53	0	0	35,302	7,955	0	23,850
131+00	50.00	329.17	28.84	0.00	0.00	668	53	0	0	35,970	7,955	0	24,465
131+50	50.00	329.10	28.84	10.76	0.00	610	53	10	0	36,580	7,967	0	25,009
132+00	50.00	279.26	28.84	11.55	0.00	563	53	21	0	37,143	7,992	0	25,494
132+50	50.00	246.23	28.84	20.55	0.00	487	53	30	0	37,630	8,028	0	25,892
133+00	50.00	192.51	28.84	29.66	0.00	406	53	46	0	38,036	8,084	0	26,189
133+50	50.00	239.52	28.84	24.09	0.00	400	53	50	0	38,436	8,143	0	26,476
134+00	50.00	266.07	28.84	51.37	0.00	468	53	70	0	38,904	8,227	0	26,806
134+50	50.00	296.48	30.55	7.95	0.00	521	55	55	0	39,425	8,293	0	27,206
135+00	50.00	277.07	30.55	9.44	0.00	531	57	16	0	39,956	8,312	0	27,662
135+28.64	28.64	237.35	30.55	44.18	0.00	273	32	28	0	40,229	8,346	0	27,868
135+30	1.36	236.46	30.55	45.91	0.00	12	2	2	0	40,241	8,349	0	27,876
135+35	5.00	233.61	30.55	50.06	0.00	44	6	9	0	40,284	8,360	0	27,903
135+40	5.00	222.22	30.55	51.75	0.00	42	6	9	0	40,327	8,371	0	27,928
135+45	5.00	211.75	30.55	52.97	0.00	40	6	10	0	40,367	8,383	0	27,951
135+50	5.00	170.88	30.55	54.17	0.00	35	6	10	0	40,402	8,395	0	27,969
135+55	5.00	140.42	30.55	53.03	0.00	29	6	10	0	40,431	8,407	0	27,980
135+60	5.00	196.52	30.55	54.09	0.00	31	6	10	0	40,462	8,419	0	27,994
135+65	5.00	219.93	30.55	55.14	0.00	39	6	10	0	40,501	8,431	0	28,014
135+70	5.00	224.08	30.55	65.22	0.00	41	6	11	0	40,542	8,444	0	28,037
135+75	5.00	202.55	30.55	74.20	0.00	40	6	13	0	40,581	8,460	0	28,055
135+80	5.00	173.79	30.55	72.39	0.00	35	6	14	0	40,616	8,476	0	28,068
135+85	5.00	128.51	30.55	82.44	0.00	28	6	14	0	40,644	8,493	0	28,073
135+90	5.00	100.49	30.55	90.83	0.00	21	6	16	0	40,665	8,512	0	28,069
135+95	5.00	103.58	30.55	72.55	0.00	19	6	15	0	40,684	8,530	0	28,064
136+00	5.00	105.69	29.51	78.43	0.00	19	6	14	0	40,704	8,547	0	28,061
136+05	5.00	112.62	29.51	64.98	0.00	20	5	13	0	40,724	8,563	0	28,060
136+10	5.00	125.21	29.51	49.70	0.00	22	5	11	0	40,746	8,576	0	28,064
136+15	5.00	138.34	29.51	43.21	0.00	24	5	9	0	40,770	8,586	0	28,073
136+20	5.00	150.02	29.51	18.92	0.00	27	5	6	0	40,797	8,593	0	28,087
136+25	5.00	156.05	29.51	1.31	0.00	28	5	2	0	40,825	8,595	0	28,108
136+30	5.00	141.46	29.51	3.32	0.00	28	5	0	0	40,853	8,596	0	28,129
136+35	5.00	151.29	29.51	3.60	0.00	27	5	1	0	40,880	8,597	0	28,150
136+40	5.00	146.06	29.51	4.21	0.00	28	5	1	0	40,908	8,598	0	28,171
136+45	5.00	104.09	29.51	43.38	0.00	23	5	4	0	40,931	8,603	0	28,184
136+50	5.00	78.06	29.51	68.57	0.00	17	5	10	0	40,948	8,615	0	28,183
136+55	5.00	53.97	29.51	82.24	0.00	12	5	14	0	40,960	8,632	0	28,173
136+60	5.00	31.45	29.51	88.39	0.00	8	5	16	0	40,968	8,651	0	28,156
136+65	5.00	30.11	29.51	75.69	0.00	6	5	15	0	40,973	8,669	0	28,138
136+70	5.00	37.02	29.51	62.04	0.00	6	5	13	0	40,980	8,684	0	28,124
136+75	5.00	36.15	29.51	44.32	0.00	7	5	10	0	40,986	8,696	0	28,113
136+80	5.00	37.40	29.51	22.09	0.00	7	5	6	0	40,993	8,704	0	28,107
136+85	5.00	41.83	29.51	1.07	0.00	7	5	2	0	41,001	8,706	0	28,106
136+90	5.00	23.43	29.51	0.06	0.00	6	5	0	0	41,007	8,706	0	28,107
136+95	5.00	7.19	29.51	0.00	0.00	3	5	0	0	41,009	8,706	0	28,104

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

USH 45 - STAGE 1 CONSTRUCTION													
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc *Note 6	Cut 1.00	Expanded Fill 1.20 *Note 9	Expanded Marsh Backfill 1.50 *Note 7	Mass Ordinate
137+00	5.00	19.37	29.51	0.01	0.00	2	5	0	0	41,012	8,706	0	28,101
137+05	5.00	49.77	30.55	0.40	0.00	6	6	0	0	41,018	8,706	0	28,102
137+10	5.00	69.05	30.55	0.04	0.00	11	6	0	0	41,029	8,706	0	28,107
137+15	5.00	95.76	30.55	0.05	0.00	15	6	0	0	41,045	8,707	0	28,117
137+20	5.00	123.27	30.55	0.00	0.00	20	6	0	0	41,065	8,707	0	28,131
137+25	5.00	139.28	30.55	0.34	0.00	24	6	0	0	41,089	8,707	0	28,150
137+30	5.00	137.31	30.55	8.15	0.00	26	6	1	0	41,115	8,707	0	28,169
137+35	5.00	128.54	30.55	9.21	0.00	25	6	2	0	41,139	8,709	0	28,186
137+40	5.00	133.01	30.55	8.85	0.00	24	6	2	0	41,164	8,711	0	28,203
137+45	5.00	127.08	30.55	8.55	0.00	24	6	2	0	41,188	8,713	0	28,219
137+50	5.00	98.08	30.55	41.58	0.00	21	6	5	0	41,209	8,719	0	28,229
137+55	5.00	96.96	30.55	46.05	0.00	18	6	8	0	41,227	8,729	0	28,231
137+60	5.00	92.96	30.55	48.52	0.00	18	6	9	0	41,244	8,739	0	28,233
137+65	5.00	95.80	30.55	41.98	0.00	17	6	8	0	41,262	8,749	0	28,235
137+70	5.00	90.80	30.55	49.04	0.00	17	6	8	0	41,279	8,759	0	28,236
137+75	5.00	88.13	30.55	46.70	0.00	17	6	9	0	41,295	8,770	0	28,236
137+78.97	3.97	88.12	30.55	44.66	0.00	13	4	7	0	41,308	8,778	0	28,237
138+00	21.03	89.76	30.55	43.09	0.00	69	24	34	0	41,378	8,819	0	28,241
138+50	50.00	84.41	30.55	19.99	0.00	161	57	58	0	41,539	8,889	0	28,276
139+00	50.00	90.40	30.55	32.52	0.00	162	57	49	0	41,701	8,947	0	28,323
139+50	50.00	86.41	30.55	41.72	0.00	164	57	69	0	41,865	9,030	0	28,347
139+60	10.00	85.77	30.55	52.45	0.00	32	11	17	0	41,896	9,051	0	28,347
139+62.73	2.73	85.55	30.55	55.23	0.00	9	3	5	0	41,905	9,057	0	28,346
140+00	37.27	92.24	30.55	48.65	0.00	123	42	72	0	42,028	9,143	0	28,341
140+50	50.00	65.25	30.55	62.97	0.00	146	57	103	0	42,174	9,267	0	28,306
141+00	50.00	75.68	30.55	54.17	0.00	130	57	108	0	42,304	9,398	0	28,250
141+13.62	13.62	72.73	30.55	51.53	0.00	37	15	27	0	42,342	9,430	0	28,240
141+50	36.38	46.76	30.55	54.59	0.00	81	41	71	0	42,422	9,515	0	28,193
142+00	50.00	44.56	30.55	64.41	0.00	85	57	110	0	42,507	9,648	0	28,089
142+50	50.00	35.25	30.55	77.07	0.00	74	57	131	0	42,581	9,805	0	27,949
143+00	50.00	37.98	30.55	65.06	0.00	68	57	132	0	42,648	9,963	0	27,802
143+50	50.00	40.01	30.55	59.74	0.00	72	57	116	0	42,721	10,101	0	27,679
143+80.17	30.17	39.06	30.55	53.38	0.00	44	34	63	0	42,765	10,177	0	27,614
144+00	19.83	42.50	30.55	21.82	0.00	30	22	28	0	42,795	10,210	0	27,588
144+50	50.00	54.59	30.55	41.93	0.00	90	57	59	0	42,885	10,281	0	27,550
145+00	50.00	65.24	30.55	37.50	0.00	111	57	74	0	42,996	10,369	0	27,517
145+50	50.00	76.95	30.55	34.83	0.00	132	57	67	0	43,127	10,450	0	27,511
146+00	50.00	73.98	30.55	43.49	0.00	140	57	73	0	43,267	10,537	0	27,507
146+50	50.00	69.40	30.55	64.90	0.00	133	57	100	0	43,400	10,657	0	27,463
147+00	50.00	65.30	30.55	74.84	0.00	125	57	129	0	43,524	10,813	0	27,376
147+50	50.00	65.59	30.55	71.02	0.00	121	57	135	0	43,646	10,975	0	27,279
148+00	50.00	68.65	30.55	73.69	0.00	124	57	134	0	43,770	11,135	0	27,186
148+50	50.00	56.48	30.55	92.97	0.00	116	57	154	0	43,886	11,321	0	27,060
149+00	50.00	93.46	30.55	44.12	0.00	139	57	127	0	44,025	11,473	0	26,990
149+50	50.00	112.53	30.55	30.58	0.00	191	57	69	0	44,215	11,556	0	27,041
150+00	50.00	142.42	30.55	12.50	0.00	236	57	40	0	44,451	11,604	0	27,172

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

USH 45 - STAGE 1 CONSTRUCTION													
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc *Note 6	Cut 1.00	Expanded Fill 1.20 *Note 9	Expanded Marsh Backfill 1.50 *Note 7	Mass Ordinate
150+50	50.00	173.36	30.55	17.64	0.00	292	57	28	0	44,744	11,637	0	27,375
151+00	50.00	218.07	30.55	1.82	0.00	362	57	18	0	45,106	11,659	0	27,659
151+50	50.00	257.07	30.55	2.83	0.00	440	57	4	0	45,546	11,664	0	28,037
152+00	50.00	257.03	30.55	3.28	0.00	476	57	6	0	46,022	11,671	0	28,450
152+50	50.00	236.43	30.55	2.04	0.00	457	57	5	0	46,479	11,677	0	28,844
153+00	50.00	236.24	30.55	4.13	0.00	438	57	6	0	46,917	11,684	0	29,218
153+50	50.00	254.49	30.55	3.62	0.00	454	57	7	0	47,371	11,692	0	29,608
154+00	50.00	238.65	30.55	3.88	0.00	457	57	7	0	47,828	11,701	0	29,999
154+50	50.00	206.99	30.55	7.39	0.00	413	57	10	0	48,240	11,713	0	30,343
155+00	50.00	190.35	30.55	4.38	0.00	368	57	11	0	48,608	11,726	0	30,641
155+50	50.00	204.09	30.55	3.14	0.00	365	57	7	0	48,974	11,734	0	30,941
156+00	50.00	303.86	30.55	2.78	0.00	470	57	5	0	49,444	11,741	0	31,349
156+50	50.00	310.75	30.55	4.49	0.00	569	57	7	0	50,013	11,749	0	31,853
157+00	50.00	329.38	30.55	4.43	0.00	593	57	8	0	50,606	11,759	0	32,379
157+50	50.00	316.16	30.55	5.43	0.00	598	57	9	0	51,203	11,770	0	32,910
158+00	50.00	326.81	30.55	0.00	0.00	595	57	5	0	51,799	11,776	0	33,442
158+50	50.00	318.62	30.55	4.22	0.00	598	57	4	0	52,396	11,781	0	33,979
159+00	50.00	340.18	30.55	2.88	0.00	610	57	7	0	53,006	11,789	0	34,524
159+50	50.00	362.01	30.55	0.00	0.00	650	57	3	0	53,657	11,792	0	35,115
160+00	50.00	377.55	30.55	0.00	0.00	685	57	0	0	54,341	11,792	0	35,743
160+50	50.00	376.74	30.55	0.00	0.00	698	57	0	0	55,040	11,792	0	36,385
161+00	50.00	389.87	30.55	0.22	0.00	710	57	0	0	55,750	11,792	0	37,038
161+50	50.00	375.71	30.55	1.91	0.00	709	57	2	0	56,458	11,794	0	37,688
162+00	50.00	283.66	30.55	3.12	0.00	611	57	5	0	57,069	11,800	0	38,236
162+50	50.00	239.96	30.55	2.01	0.00	485	57	5	0	57,554	11,806	0	38,658
163+00	50.00	149.66	30.55	15.04	0.00	361	57	16	0	57,915	11,825	0	38,944
163+50	50.00	88.78	30.55	38.11	0.00	221	57	49	0	58,135	11,884	0	39,049
164+00	50.00	58.11	30.55	54.83	0.00	136	57	86	0	58,271	11,987	0	39,025
164+50	50.00	45.49	30.55	77.79	0.00	96	57	123	0	58,367	12,134	0	38,917
165+00	50.00	58.27	30.55	172.98	0.00	96	57	232	0	58,463	12,413	0	38,678
165+50	50.00	77.10	30.55	138.72	0.00	125	57	289	0	58,589	12,759	0	38,400
166+00	50.00	97.72	30.55	91.03	0.00	162	57	213	0	58,751	13,015	0	38,250
166+50	50.00	132.64	30.55	46.31	0.00	213	57	127	0	58,964	13,167	0	38,254
167+00	50.00	148.62	30.55	59.72	0.00	260	57	98	0	59,224	13,285	0	38,340
167+50	50.00	150.21	30.55	51.65	0.00	277	57	103	0	59,501	13,409	0	38,437
168+00	50.00	153.63	30.55	51.22	0.00	281	57	95	0	59,782	13,523	0	38,547
168+50	50.00	156.73	30.55	39.30	0.00	287	57	84	0	60,070	13,624	0	38,678
169+00	50.00	157.40	30.55	29.93	0.00	291	57	64	0	60,361	13,701	0	38,835
169+50	50.00	178.80	30.55	9.85	0.00	311	57	37	0	60,672	13,745	0	39,045
169+57.85	7.85	176.38	30.55	9.07	0.00	52	9	3	0	60,723	13,748	0	39,085
169+60	2.15	176.70	30.55	9.26	0.00	14	2	1	0	60,737	13,749	0	39,096
169+65	5.00	179.67	30.55	9.42	0.00	33	6	2	0	60,770	13,751	0	39,121
169+70	5.00	179.81	30.55	8.86	0.00	33	6	2	0	60,804	13,753	0	39,146
169+75	5.00	173.96	30.55	8.08	0.00	33	6	2	0	60,837	13,755	0	39,172
169+80	5.00	165.19	30.55	6.76	0.00	31	6	1	0	60,868	13,757	0	39,196
169+85	5.00	151.61	30.55	5.62	0.00	29	6	1	0	60,897	13,758	0	39,218

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

USH 45 - STAGE 1 CONSTRUCTION													
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc *Note 6	Cut 1.00	Expanded Fill 1.20 *Note 9	Expanded Marsh Backfill 1.50 *Note 7	Mass Ordinate
169+90	5.00	144.02	30.55	4.70	0.00	27	6	1	0	60,925	13,759	0	39,239
169+95	5.00	135.90	30.55	2.01	0.00	26	6	1	0	60,951	13,760	0	39,258
170+00	5.00	119.35	29.51	2.42	0.00	24	6	0	0	60,974	13,760	0	39,276
170+05	5.00	107.68	29.51	3.62	0.00	21	5	1	0	60,995	13,761	0	39,291
170+10	5.00	101.08	29.51	4.92	0.00	19	5	1	0	61,015	13,762	0	39,304
170+15	5.00	92.24	29.51	6.39	0.00	18	5	1	0	61,032	13,763	0	39,315
170+20	5.00	81.48	29.51	7.42	0.00	16	5	1	0	61,049	13,765	0	39,324
170+24.22	4.22	68.32	29.51	11.52	0.00	12	5	1	0	61,060	13,766	0	39,329
170+25	0.78	68.37	29.51	12.48	0.00	2	1	0	0	61,062	13,767	0	39,330
170+30	5.00	71.33	29.51	19.77	0.00	13	5	3	0	61,075	13,770	0	39,334
170+35	5.00	71.83	29.51	25.01	0.00	13	5	4	0	61,088	13,775	0	39,337
170+40	5.00	74.65	29.51	32.48	0.00	14	5	5	0	61,102	13,782	0	39,338
170+45	5.00	80.81	29.51	41.58	0.00	14	5	7	0	61,116	13,790	0	39,339
170+50	5.00	89.39	29.51	44.77	0.00	16	5	8	0	61,132	13,800	0	39,340
170+55	5.00	98.20	30.55	41.50	0.00	17	6	8	0	61,149	13,809	0	39,342
170+60	5.00	117.97	30.55	39.02	0.00	20	6	7	0	61,169	13,818	0	39,347
170+65	5.00	116.03	30.55	36.91	0.00	22	6	7	0	61,191	13,827	0	39,355
170+70	5.00	122.31	30.55	34.64	0.00	22	6	7	0	61,213	13,835	0	39,363
170+75	5.00	132.78	30.55	33.40	0.00	24	6	6	0	61,237	13,842	0	39,374
170+80	5.00	129.74	30.55	32.30	0.00	24	6	6	0	61,261	13,849	0	39,385
170+85	5.00	123.50	30.55	31.34	0.00	23	6	6	0	61,285	13,857	0	39,396
170+90	5.00	121.21	30.55	30.16	0.00	23	6	6	0	61,307	13,863	0	39,406
170+95	5.00	128.52	30.55	28.95	0.00	23	6	5	0	61,330	13,870	0	39,417
170+98.78	3.78	134.36	30.55	28.43	0.00	18	4	4	0	61,349	13,875	0	39,426
171+00	1.22	134.91	30.55	30.45	0.00	6	1	1	0	61,355	13,876	0	39,429
171+50	50.00	163.73	30.55	23.69	0.00	277	57	50	0	61,631	13,936	0	39,589
172+00	50.00	191.46	30.55	29.79	0.00	329	57	50	0	61,960	13,996	0	39,802
172+50	50.00	219.26	30.55	35.13	0.00	380	57	60	0	62,341	14,068	0	40,054
173+00	50.00	231.99	30.55	29.02	0.00	418	57	59	0	62,758	14,139	0	40,344
173+50	50.00	229.21	30.55	20.67	0.00	427	57	46	0	63,185	14,195	0	40,659
174+00	50.00	224.60	30.55	19.74	0.00	420	57	37	0	63,606	14,239	0	40,978
174+50	50.00	242.49	30.55	27.42	0.00	432	57	44	0	64,038	14,292	0	41,301

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

USH 45 - STAGE 2 CONSTRUCTION

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	AREA (SF) Marsh Exc	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) Marsh Exc *Note 6	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20 *Note 9	Cumulative Vol (CY) Expanded Marsh Backfill 1.50 *Note 7	Mass Ordinate
175+00	0.00	220.56	30.55	27.07	0.00	0	0	0	0	0	0	0	0
175+50	50.00	256.72	30.55	12.62	0.00	442	57	37	0	442	44	0	341
176+00	50.00	254.98	30.55	3.84	0.00	474	57	15	0	916	62	0	740
176+50	50.00	270.77	30.55	1.35	0.00	487	57	5	0	1,403	68	0	1,165
177+00	50.00	295.32	30.55	0.09	0.00	524	57	1	0	1,927	70	0	1,631
177+50	50.00	290.29	30.55	5.70	0.00	542	57	5	0	2,469	76	0	2,110
178+00	50.00	315.29	30.55	3.17	0.00	561	57	8	0	3,030	86	0	2,604
178+50	50.00	370.86	30.55	0.57	0.00	635	57	3	0	3,665	90	0	3,179
179+00	50.00	421.22	30.55	0.00	0.00	733	57	1	0	4,398	91	0	3,855
179+50	50.00	502.44	30.55	0.00	0.00	855	57	0	0	5,254	91	0	4,654
180+00	50.00	558.10	30.55	0.00	0.00	982	57	0	0	6,236	91	0	5,579
180+50	50.00	559.46	30.55	0.00	0.00	1,035	57	0	0	7,270	91	0	6,557
181+00	50.00	575.62	30.55	0.00	0.00	1,051	57	0	0	8,321	91	0	7,552
181+50	50.00	566.15	30.55	0.00	0.00	1,057	57	0	0	9,379	91	0	8,552
182+00	50.00	515.30	30.55	0.00	0.00	1,001	57	0	0	10,380	91	0	9,497
182+50	50.00	442.91	30.55	0.00	0.00	887	57	0	0	11,267	91	0	10,328
182+69.21	19.21	408.73	30.55	2.44	0.00	303	22	1	0	11,570	92	0	10,608
182+70	0.79	408.03	30.55	2.43	0.00	12	1	0	0	11,582	92	0	10,619
182+75	5.00	397.31	30.55	2.95	0.00	75	6	0	0	11,657	93	0	10,687
182+80	5.00	386.76	30.55	2.57	0.00	73	6	1	0	11,729	93	0	10,753
182+85	5.00	379.53	30.55	2.16	0.00	71	6	0	0	11,800	94	0	10,818
182+90	5.00	364.56	30.55	1.64	0.00	69	6	0	0	11,869	94	0	10,881
182+95	5.00	345.60	30.55	1.14	0.00	66	6	0	0	11,935	94	0	10,941
183+00	5.00	338.86	30.55	1.99	0.00	63	6	0	0	11,998	95	0	10,998
183+05	5.00	364.19	30.55	3.65	0.00	65	6	1	0	12,063	95	0	11,057
183+10	5.00	386.92	30.55	0.00	0.00	70	6	0	0	12,133	96	0	11,120
183+15	5.00	389.50	30.55	0.00	0.00	72	6	0	0	12,205	96	0	11,187
183+20	5.00	369.14	30.55	0.05	0.00	70	6	0	0	12,275	96	0	11,251
183+25	5.00	351.55	29.51	0.00	0.00	67	6	0	0	12,342	96	0	11,312
183+30	5.00	317.12	29.51	0.00	0.00	62	5	0	0	12,404	96	0	11,369
183+35	5.00	277.19	29.51	0.00	0.00	55	5	0	0	12,459	96	0	11,418
183+40	5.00	243.66	29.51	0.00	0.00	48	5	0	0	12,507	96	0	11,461
183+45	5.00	218.31	29.51	0.00	0.00	43	5	0	0	12,550	96	0	11,499
183+50	5.00	230.82	29.51	0.00	0.00	42	5	0	0	12,591	96	0	11,535
183+55	5.00	248.00	29.51	0.00	0.00	44	5	0	0	12,636	96	0	11,574
183+60	5.00	264.05	29.51	0.00	0.00	47	5	0	0	12,683	96	0	11,615
183+65	5.00	278.84	29.51	0.00	0.00	50	5	0	0	12,733	96	0	11,660
183+70	5.00	288.36	29.51	0.00	0.00	53	5	0	0	12,786	96	0	11,707
183+75	5.00	283.89	29.51	0.70	0.00	53	5	0	0	12,839	96	0	11,755
183+80	5.00	275.64	30.55	11.95	0.00	52	6	1	0	12,891	97	0	11,800
183+85	5.00	269.16	30.55	13.37	0.00	50	6	2	0	12,941	100	0	11,842
183+90	5.00	264.57	30.55	13.29	0.00	49	6	2	0	12,990	103	0	11,882
183+95	5.00	259.53	30.55	13.75	0.00	49	6	3	0	13,039	106	0	11,922
183+99.25	4.25	256.79	30.55	13.47	0.00	41	5	2	0	13,080	109	0	11,956
184+00	0.75	256.38	30.55	14.81	0.00	7	1	0	0	13,087	109	0	11,961
184+50	50.00	265.60	30.55	21.39	0.00	483	57	34	0	13,570	149	0	12,348

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

USH 45 - STAGE 2 CONSTRUCTION

STATION	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc *Note 6	Cut 1.00	Expanded Fill 1.20 *Note 9	Expanded Marsh Backfill 1.50 *Note 7	
185+00	50.00	263.83	30.55	23.65	0.00	490	57	42	0	14,060	199	0	12,731
185+50	50.00	230.54	30.55	55.14	0.00	458	57	73	0	14,518	287	0	13,045
186+00	50.00	188.90	30.55	97.55	0.00	388	57	141	0	14,906	457	0	13,207
186+50	50.00	151.17	30.55	102.57	0.00	315	57	185	0	15,221	679	0	13,243
187+00	50.00	117.38	30.55	145.15	0.00	249	57	229	0	15,470	954	0	13,160
187+50	50.00	98.88	30.55	170.36	0.00	200	57	292	0	15,670	1,305	0	12,953
188+00	50.00	92.15	30.55	134.01	0.00	177	57	282	0	15,847	1,643	0	12,735
188+50	50.00	132.17	30.55	43.93	0.00	208	57	165	0	16,055	1,841	0	12,689
189+00	50.00	137.47	30.55	40.11	0.00	250	57	78	0	16,304	1,934	0	12,788
189+50	50.00	154.72	30.55	32.41	0.00	271	57	67	0	16,575	2,015	0	12,922
190+00	50.00	167.94	30.55	28.47	0.00	299	57	56	0	16,874	2,082	0	13,096
190+50	50.00	230.87	30.55	43.92	0.00	369	57	67	0	17,243	2,163	0	13,329
191+00	50.00	130.52	30.55	111.86	0.00	335	57	144	0	17,578	2,336	0	13,433
191+50	50.00	154.62	30.55	126.32	0.00	264	57	221	0	17,842	2,600	0	13,376
192+00	50.00	168.39	30.55	101.90	0.00	299	57	211	0	18,141	2,854	0	13,365
192+38.39	38.39	167.63	30.55	75.88	0.00	239	43	126	0	18,380	3,006	0	13,409
192+40	1.61	144.85	30.55	78.66	0.00	9	2	5	0	18,389	3,011	0	13,411
192+45	5.00	148.08	30.55	74.27	0.00	27	6	14	0	18,416	3,028	0	13,415
192+50	5.00	149.61	30.55	66.33	0.00	28	6	13	0	18,444	3,044	0	13,422
192+55	5.00	149.24	30.55	64.85	0.00	28	6	12	0	18,471	3,058	0	13,429
192+60	5.00	155.82	30.55	63.77	0.00	28	6	12	0	18,499	3,073	0	13,437
192+65	5.00	159.81	30.55	60.47	0.00	29	6	12	0	18,529	3,087	0	13,447
192+70	5.00	134.51	30.55	35.62	0.00	27	6	9	0	18,556	3,097	0	13,458
192+75	5.00	143.41	30.55	23.70	0.00	26	6	5	0	18,582	3,104	0	13,472
192+80	5.00	145.05	30.55	16.78	0.00	27	6	4	0	18,608	3,108	0	13,488
192+85	5.00	144.78	30.55	12.56	0.00	27	6	3	0	18,635	3,112	0	13,506
192+90	5.00	143.41	29.51	8.12	0.00	27	6	2	0	18,662	3,114	0	13,525
192+95	5.00	134.33	29.51	3.54	0.00	26	5	1	0	18,688	3,115	0	13,544
193+00	5.00	124.21	29.51	0.74	0.00	24	5	0	0	18,712	3,116	0	13,562
193+05	5.00	115.53	29.51	0.25	0.00	22	5	0	0	18,734	3,116	0	13,579
193+10	5.00	107.03	29.51	0.66	0.00	21	5	0	0	18,754	3,116	0	13,594
193+15	5.00	100.63	29.51	0.36	0.00	19	5	0	0	18,774	3,116	0	13,607
193+20	5.00	115.48	29.51	0.31	0.00	20	5	0	0	18,794	3,116	0	13,622
193+25	5.00	152.38	29.51	0.00	0.00	25	5	0	0	18,818	3,116	0	13,641
193+30	5.00	180.26	29.51	0.00	0.00	31	5	0	0	18,849	3,116	0	13,666
193+35	5.00	186.42	29.51	0.02	0.00	34	5	0	0	18,883	3,116	0	13,695
193+40	5.00	196.42	29.51	0.44	0.00	35	5	0	0	18,919	3,116	0	13,725
193+45	5.00	180.38	29.51	0.83	0.00	35	5	0	0	18,953	3,116	0	13,754
193+50	5.00	193.88	29.51	0.50	0.00	35	5	0	0	18,988	3,116	0	13,783
193+55	5.00	204.19	30.55	0.37	0.00	37	6	0	0	19,025	3,116	0	13,814
193+60	5.00	177.79	30.55	0.74	0.00	35	6	0	0	19,060	3,117	0	13,844
193+63.81	3.81	166.35	30.55	5.34	0.00	24	4	0	0	19,085	3,117	0	13,863
194+00	36.19	175.42	30.55	5.25	0.00	229	41	7	0	19,314	3,126	0	14,043
194+50	50.00	201.43	30.55	13.55	0.00	349	57	17	0	19,663	3,147	0	14,314
195+00	50.00	221.67	30.55	11.92	0.00	392	57	24	0	20,054	3,175	0	14,621
195+50	50.00	256.68	30.55	3.27	0.00	443	57	14	0	20,497	3,192	0	14,991

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

USH 45 - STAGE 2 CONSTRUCTION

STATION	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc *Note 6	Cut 1.00	Expanded Fill 1.20 *Note 9	Expanded Marsh Backfill 1.50 *Note 7	
196+00	50.00	259.63	30.55	2.47	0.00	478	57	5	0	20,975	3,198	0	15,406
196+50	50.00	250.31	30.55	2.89	0.00	472	57	5	0	21,448	3,204	0	15,815
196+66.9	16.90	245.21	30.55	0.15	0.00	155	19	1	0	21,603	3,205	0	15,950
197+00	33.10	341.64	30.55	1.17	0.00	360	37	1	0	21,962	3,206	0	16,272
197+50	50.00	332.27	30.55	1.14	0.00	624	57	2	0	22,586	3,209	0	16,836
198+00	50.00	315.01	30.55	1.24	0.00	599	57	2	0	23,186	3,211	0	17,377
198+50	50.00	356.52	30.55	1.15	0.00	622	57	2	0	23,807	3,214	0	17,939
199+00	50.00	406.59	30.55	0.00	0.00	707	57	1	0	24,514	3,215	0	18,588
199+50	50.00	482.23	30.55	0.00	0.00	823	57	0	0	25,337	3,215	0	19,354
200+00	50.00	557.07	30.55	0.00	0.00	962	57	0	0	26,299	3,215	0	20,260
200+50	50.00	635.13	30.55	0.00	0.00	1,104	57	0	0	27,403	3,215	0	21,307
201+00	50.00	672.71	30.55	0.00	0.00	1,211	57	0	0	28,614	3,215	0	22,462
201+50	50.00	648.59	30.55	0.00	0.00	1,223	57	0	0	29,838	3,215	0	23,629
202+00	50.00	584.75	30.55	0.00	0.00	1,142	57	0	0	30,980	3,215	0	24,714
202+50	50.00	532.52	30.55	0.00	0.00	1,035	57	0	0	32,014	3,215	0	25,692
203+00	50.00	464.57	30.55	0.00	0.00	923	57	0	0	32,937	3,215	0	26,559
203+50	50.00	439.98	30.55	0.00	0.00	838	57	0	0	33,775	3,215	0	27,340
204+00	50.00	410.95	30.55	0.00	0.00	788	57	0	0	34,563	3,215	0	28,071
204+50	50.00	366.49	30.55	0.00	0.00	720	57	0	0	35,283	3,215	0	28,734
205+00	50.00	330.81	30.55	0.08	0.00	646	57	0	0	35,928	3,215	0	29,323
205+50	50.00	278.64	30.55	3.79	0.00	564	57	4	0	36,493	3,220	0	29,827
206+00	50.00	195.13	30.55	19.37	0.00	439	57	21	0	36,931	3,245	0	30,183
206+50	50.00	155.15	30.55	20.34	0.00	324	57	37	0	37,256	3,290	0	30,407
207+00	50.00	157.96	30.55	21.20	0.00	290	57	38	0	37,546	3,336	0	30,594
207+50	50.00	169.37	30.55	20.88	0.00	303	57	39	0	37,849	3,382	0	30,793
208+00	50.00	190.92	30.55	18.60	0.00	334	57	37	0	38,182	3,426	0	31,027
208+50	50.00	157.71	30.55	23.96	0.00	323	57	39	0	38,505	3,474	0	31,246
209+00	50.00	123.28	30.55	29.53	0.00	260	57	50	0	38,765	3,533	0	31,390
209+50	50.00	95.42	30.55	30.79	0.00	203	57	56	0	38,968	3,600	0	31,469
210+00	50.00	74.29	30.55	29.78	0.00	157	57	56	0	39,125	3,667	0	31,502
210+50	50.00	85.92	30.55	10.19	0.00	148	57	37	0	39,273	3,712	0	31,549
211+00	50.00	66.49	30.55	48.61	0.00	141	57	54	0	39,414	3,777	0	31,568
211+50	50.00	121.66	30.55	26.60	0.00	174	57	70	0	39,589	3,861	0	31,603
212+00	50.00	168.82	30.55	10.16	0.00	269	57	34	0	39,857	3,902	0	31,774
212+50	50.00	161.41	30.55	22.83	0.00	306	57	31	0	40,163	3,938	0	31,987
213+00	50.00	97.07	30.55	33.15	0.00	239	57	52	0	40,403	4,000	0	32,107
213+50	50.00	57.44	30.55	64.68	0.00	143	57	91	0	40,546	4,109	0	32,085
214+00	50.00	43.76	30.55	125.37	0.00	94	57	176	0	40,639	4,320	0	31,911
214+50	50.00	38.70	30.55	119.56	0.00	76	57	227	0	40,716	4,592	0	31,659
215+00	50.00	33.11	30.55	117.89	0.00	66	57	220	0	40,782	4,856	0	31,405
215+50	50.00	33.49	30.55	117.85	0.00	62	57	218	0	40,844	5,118	0	31,148
216+00	50.00	35.75	30.55	113.60	0.00	64	57	214	0	40,908	5,375	0	30,898
216+50	50.00	37.17	30.55	103.92	0.00	68	57	201	0	40,975	5,617	0	30,667
217+00	50.00	39.21	30.55	117.38	0.00	71	57	205	0	41,046	5,863	0	30,436
217+50	50.00	39.56	30.55	127.99	0.00	73	57	227	0	41,119	6,135	0	30,179
218+00	50.00	40.51	30.55	132.65	0.00	74	57	241	0	41,193	6,425	0	29,907

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

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PROJECT NO: 2430-06-70 | HWY: USH 45 | COUNTY: RACINE | EARTHWORK DATA | SHEET: 481 | E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

USH 45 - STAGE 2 CONSTRUCTION

STATION	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc *Note 6	Cut 1.00	Expanded Fill 1.20 *Note 9	Expanded Marsh Backfill 1.50 *Note 7	
218+50	50.00	42.54	30.55	113.99	0.00	77	57	228	0	41,270	6,699	0	29,654
219+00	50.00	42.18	30.55	92.78	0.00	78	57	191	0	41,349	6,929	0	29,446
219+50	50.00	35.58	30.55	112.56	0.00	72	57	190	0	41,421	7,157	0	29,233
220+00	50.00	26.19	30.55	188.47	0.00	57	57	279	0	41,478	7,492	0	28,899
220+50	50.00	20.05	13.30	246.24	0.00	43	41	403	0	41,521	7,975	0	28,418
221+00	50.00	24.76	13.30	231.55	0.00	41	25	442	0	41,562	8,505	0	27,904
221+50	50.00	33.04	13.30	212.51	0.00	54	25	411	0	41,616	8,999	0	27,440
222+00	50.00	42.28	13.30	216.71	0.00	70	25	397	0	41,685	9,476	0	27,008
222+23.25	23.25	25.51	13.30	221.94	0.00	29	11	189	0	41,715	9,702	0	26,799
222+25	1.75	22.49	13.30	227.35	0.00	2	1	15	0	41,716	9,720	0	26,782
222+30	5.00	21.84	13.30	231.40	0.00	4	2	42	0	41,720	9,771	0	26,733
222+35	5.00	24.36	13.30	224.78	0.00	4	2	42	0	41,725	9,821	0	26,684
222+40	5.00	29.42	13.30	218.53	0.00	5	2	41	0	41,729	9,871	0	26,638
222+45	5.00	34.26	13.30	199.98	0.00	6	2	39	0	41,735	9,917	0	26,594
222+50	5.00	38.90	13.30	97.86	0.00	7	2	28	0	41,742	9,950	0	26,566
222+55	5.00	44.44	13.30	63.88	0.00	8	2	15	0	41,750	9,968	0	26,553
222+60	5.00	47.13	13.30	39.24	0.00	8	2	10	0	41,758	9,980	0	26,547
222+65	5.00	49.53	13.30	18.96	0.00	9	2	5	0	41,767	9,986	0	26,548
222+70	5.00	51.34	13.30	0.00	0.00	9	2	2	0	41,777	9,988	0	26,552
222+75	5.00	50.71	13.30	0.00	0.00	9	2	0	0	41,786	9,988	0	26,559
222+80	5.00	48.65	13.30	0.00	0.00	9	2	0	0	41,795	9,988	0	26,566
222+85	5.00	42.55	13.30	0.00	0.00	8	2	0	0	41,804	9,988	0	26,572
222+90	5.00	37.70	13.30	0.00	0.00	7	2	0	0	41,811	9,988	0	26,577
222+95	5.00	31.02	13.30	0.00	0.00	6	2	0	0	41,818	9,988	0	26,581
223+00	5.00	22.96	13.30	0.00	0.00	5	2	0	0	41,823	9,988	0	26,583
223+00.09	0.09	22.83	13.30	0.00	0.00	0	0	0	0	41,823	9,988	0	26,583
223+05	4.91	33.70	13.30	0.00	0.00	5	2	0	0	41,828	9,988	0	26,586
223+10	5.00	45.36	13.30	0.00	0.00	7	2	0	0	41,835	9,988	0	26,591
223+15	5.00	57.53	13.30	0.00	0.00	10	2	0	0	41,845	9,988	0	26,598
223+20	5.00	73.59	13.30	0.00	0.00	12	2	0	0	41,857	9,988	0	26,608
223+25	5.00	85.97	13.30	0.00	0.00	15	2	0	0	41,872	9,988	0	26,620
223+30	5.00	97.31	13.30	0.00	0.00	17	2	0	0	41,888	9,988	0	26,635
223+35	5.00	101.67	13.30	12.70	0.00	18	2	1	0	41,907	9,990	0	26,649
223+40	5.00	102.63	13.30	30.93	0.00	19	2	4	0	41,926	9,995	0	26,661
223+45	5.00	100.90	13.30	48.50	0.00	19	2	7	0	41,945	10,003	0	26,668
223+50	5.00	100.97	13.30	64.12	0.00	19	2	10	0	41,963	10,016	0	26,672
223+55	5.00	98.93	13.30	91.84	0.00	19	2	14	0	41,982	10,033	0	26,671
223+60	5.00	97.77	13.30	116.18	0.00	18	2	19	0	42,000	10,056	0	26,663
223+65	5.00	97.30	13.30	124.79	0.00	18	2	22	0	42,018	10,083	0	26,652
223+70	5.00	99.55	13.30	126.11	0.00	18	2	23	0	42,036	10,111	0	26,640
223+75	5.00	103.85	13.30	115.17	0.00	19	2	22	0	42,055	10,138	0	26,630
223+76.58	1.58	105.37	13.30	110.26	0.00	6	1	7	0	42,061	10,146	0	26,627
224+00	23.42	130.79	13.30	187.35	0.00	102	12	129	0	42,164	10,301	0	26,563
224+50	50.00	175.96	11.50	106.75	0.00	284	23	272	0	42,448	10,627	0	26,497
225+00	50.00	228.31	11.50	29.03	0.00	374	21	126	0	42,822	10,778	0	26,700
225+50	50.00	344.31	11.50	0.00	0.00	530	21	27	0	43,352	10,811	0	27,176

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

USH 45 - STAGE 2 CONSTRUCTION

STATION	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc *Note 6	Cut 1.00	Expanded Fill 1.20 *Note 9	Expanded Marsh Backfill 1.50 *Note 7	Mass Ordinate
226+00	50.00	493.54	11.50	0.00	0.00	776	21	0	0	44,128	10,811	0	27,931
226+50	50.00	633.66	11.50	0.00	0.00	1,044	21	0	0	45,172	10,811	0	28,953
227+00	50.00	728.83	11.50	0.00	0.00	1,262	21	0	0	46,433	10,811	0	30,193
227+50	50.00	810.65	11.50	0.00	0.00	1,425	21	0	0	47,859	10,811	0	31,597
228+00	50.00	833.70	11.50	0.00	0.00	1,523	21	0	0	49,381	10,811	0	33,099
228+50	50.00	844.70	11.50	0.00	0.00	1,554	21	0	0	50,935	10,811	0	34,632
229+00	50.00	756.46	11.50	0.00	0.00	1,483	21	0	0	52,418	10,811	0	36,093
229+50	50.00	584.38	11.50	0.00	0.00	1,242	21	0	0	53,660	10,811	0	37,313
230+00	50.00	438.28	11.50	0.00	0.00	947	21	0	0	54,606	10,811	0	38,239
230+50	50.00	244.32	11.50	13.77	0.00	632	21	13	0	55,238	10,826	0	38,834
231+00	50.00	124.72	11.50	122.69	0.00	342	21	126	0	55,580	10,977	0	39,003
231+50	50.00	75.88	11.50	188.75	0.00	186	21	288	0	55,766	11,323	0	38,821
232+00	50.00	50.41	11.50	191.68	0.00	117	21	352	0	55,883	11,746	0	38,494
232+50	50.00	29.48	11.50	195.53	0.00	74	21	359	0	55,957	12,176	0	38,117
233+00	50.00	18.14	11.50	217.02	0.00	44	21	382	0	56,001	12,635	0	37,681
233+50	50.00	13.58	11.50	270.25	0.00	29	21	451	0	56,030	13,176	0	37,148
234+00	50.00	12.84	11.50	336.01	0.00	24	21	561	0	56,055	13,850	0	36,477
234+50	50.00	14.93	11.50	355.52	0.00	26	21	640	0	56,080	14,618	0	35,713
235+00	50.00	21.09	11.50	307.95	0.00	33	21	614	0	56,114	15,355	0	34,988
235+50	50.00	35.63	11.50	199.76	0.00	53	21	470	0	56,166	15,920	0	34,455
236+00	50.00	69.71	11.50	62.68	0.00	98	21	243	0	56,264	16,211	0	34,240
236+50	50.00	167.26	11.50	49.75	0.00	219	21	104	0	56,483	16,336	0	34,313
237+00	50.00	240.23	11.50	38.50	0.00	377	21	82	0	56,861	16,434	0	34,571
237+50	50.00	278.08	11.50	29.85	0.00	480	21	63	0	57,340	16,510	0	34,954
238+00	50.00	261.27	11.50	32.87	0.00	499	21	58	0	57,840	16,580	0	35,362
238+50	50.00	216.24	11.50	43.92	0.00	442	21	71	0	58,282	16,665	0	35,698
239+00	50.00	163.12	11.50	56.19	0.00	351	21	93	0	58,633	16,776	0	35,916
239+50	50.00	90.29	11.50	91.76	0.00	235	21	137	0	58,868	16,941	0	35,965
240+00	50.00	24.43	11.50	178.31	0.00	106	21	250	0	58,974	17,241	0	35,750
240+50	50.00	0.09	11.50	356.71	0.00	23	21	495	0	58,997	17,835	0	35,157
241+00	50.00	0.00	11.50	509.71	95.00	0	21	802	88	58,997	18,798	132	34,173
241+50	50.00	0.00	11.50	620.49	235.00	0	21	1,046	306	58,997	20,054	590	32,896
242+00	50.00	11.94	11.50	735.26	430.00	11	21	1,255	616	59,008	21,560	1,514	31,380
242+50	50.00	4.35	11.50	621.26	374.00	15	21	1,256	744	59,023	23,067	2,631	29,866
243+00	50.00	15.61	11.50	481.79	350.00	18	21	1,021	670	59,042	24,293	3,636	28,638
243+50	50.00	70.36	11.50	309.97	496.00	80	21	733	783	59,121	25,173	4,811	27,816
244+00	50.00	162.68	11.50	170.08	0.00	216	21	444	459	59,337	25,706	5,500	27,477
244+50	50.00	244.70	11.50	102.38	0.00	377	21	252	0	59,714	26,009	5,500	27,530
245+00	50.00	286.37	11.50	45.03	0.00	492	21	136	0	60,206	26,173	5,500	27,837
245+50	50.00	355.50	11.50	18.81	0.00	594	21	59	0	60,800	26,244	5,500	28,339
246+00	50.00	280.38	11.50	14.05	0.00	589	21	30	0	61,389	26,280	5,500	28,870
246+50	50.00	390.56	11.50	0.25	0.00	621	21	13	0	62,010	26,296	5,500	29,454
247+00	50.00	417.77	11.50	5.51	0.00	748	21	5	0	62,759	26,302	5,500	30,175
247+50	50.00	395.34	11.50	2.88	0.00	753	21	8	0	63,512	26,312	5,500	30,897
248+00	50.00	400.40	11.50	0.00	0.00	737	21	3	0	64,248	26,315	5,500	31,610
248+50	50.00	274.57	11.50	0.87	0.00	625	21	1	0	64,873	26,316	5,500	32,212

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

USH 45 - STAGE 2 CONSTRUCTION

STATION	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc *Note 6	Cut 1.00	Expanded Fill 1.20 *Note 9	Expanded Marsh Backfill 1.50 *Note 7	
249+00	50.00	217.78	11.50	11.05	0.00	456	21	11	0	65,329	26,329	5,500	32,634
249+36.92	36.92	168.16	11.50	14.87	0.00	264	16	18	0	65,593	26,350	5,500	32,861
249+50	13.08	159.15	11.50	23.72	0.00	79	6	9	0	65,672	26,362	5,500	32,923
250+00	50.00	114.40	11.50	95.80	0.00	253	21	111	0	65,926	26,494	5,500	33,022
250+50	50.00	84.71	11.50	165.66	0.00	184	21	242	0	66,110	26,785	5,500	32,895
251+00	50.00	81.00	11.50	137.49	0.00	153	21	281	0	66,263	27,122	5,500	32,690
251+50	50.00	138.90	11.50	62.67	0.00	204	21	185	0	66,467	27,344	5,500	32,650
252+00	50.00	81.95	11.50	183.76	0.00	204	21	228	0	66,672	27,618	5,500	32,559
252+50	50.00	102.73	11.50	174.26	0.00	171	21	331	0	66,843	28,016	5,500	32,311
253+00	50.00	143.78	11.50	183.77	0.00	228	21	332	0	67,071	28,413	5,500	32,120
253+50	50.00	162.16	11.50	109.49	0.00	283	21	272	0	67,354	28,739	5,500	32,057
254+00	50.00	158.63	11.50	63.21	0.00	297	21	160	0	67,651	28,931	5,500	32,140
254+50	50.00	172.66	11.50	32.82	0.00	307	21	89	0	67,958	29,038	5,500	32,319
255+00	50.00	196.84	11.50	23.57	0.00	342	21	52	0	68,300	29,101	5,500	32,577
255+50	50.00	335.20	11.50	0.00	0.00	493	21	22	0	68,793	29,127	5,500	33,023
256+00	50.00	423.95	28.84	1.85	0.00	703	37	2	0	69,496	29,129	5,500	33,686
256+50	50.00	503.02	28.84	3.16	0.00	858	53	5	0	70,354	29,134	5,500	34,485
257+00	50.00	503.12	28.84	4.59	0.00	932	53	7	0	71,285	29,143	5,500	35,355
257+50	50.00	486.44	28.84	0.00	0.00	916	53	4	0	72,202	29,148	5,500	36,213
258+00	50.00	338.13	28.84	0.81	0.00	763	53	1	0	72,965	29,149	5,500	36,922
258+50	50.00	214.52	28.84	9.14	0.00	512	53	9	0	73,477	29,160	5,500	37,369
259+00	50.00	178.69	28.84	32.30	0.00	364	53	38	0	73,841	29,206	5,500	37,634
259+50	50.00	163.20	28.84	57.50	0.00	317	53	83	0	74,158	29,306	5,500	37,797
260+00	50.00	173.12	28.84	86.80	0.00	311	53	134	0	74,469	29,466	5,500	37,895
260+50	50.00	181.70	28.84	62.65	0.00	329	53	138	0	74,798	29,632	5,500	38,004
261+00	50.00	257.84	28.84	42.91	0.00	407	53	98	0	75,205	29,749	5,500	38,240
261+50	50.00	315.69	28.84	31.08	0.00	531	53	69	0	75,736	29,832	5,500	38,636
262+00	50.00	363.05	28.84	33.82	0.00	628	53	60	0	76,364	29,904	5,500	39,139
262+50	50.00	246.90	28.84	62.99	75.00	565	53	90	69	76,929	30,011	5,604	39,542
263+00	50.00	187.13	28.84	112.39	84.00	402	53	162	147	77,331	30,206	5,825	39,696
263+50	50.00	144.19	28.84	78.92	42.00	307	53	177	117	77,637	30,419	6,000	39,737
264+00	50.00	194.78	28.84	59.21	0.00	314	53	128	39	77,951	30,572	6,058	39,844
264+50	50.00	296.71	28.84	46.35	0.00	455	53	98	0	78,406	30,690	6,058	40,128
265+00	50.00	234.98	28.84	48.56	0.00	492	53	88	0	78,899	30,795	6,058	40,462
265+50	50.00	313.49	28.84	51.32	0.00	508	53	92	0	79,407	30,906	6,058	40,805
266+00	50.00	398.62	28.84	47.42	0.00	659	53	91	0	80,066	31,016	6,058	41,301
266+50	50.00	271.79	28.84	38.43	0.00	621	53	79	0	80,687	31,111	6,058	41,773
267+00	50.00	222.79	28.84	97.04	0.00	458	53	125	0	81,145	31,262	6,058	42,027
267+50	50.00	177.24	28.84	37.72	0.00	370	53	125	0	81,515	31,411	6,058	42,194
268+00	50.00	250.99	28.84	10.69	0.00	397	53	45	0	81,911	31,465	6,058	42,484
268+40	40.00	174.00	28.84	7.94	0.00	315	43	14	0	82,226	31,482	6,058	42,739

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

58th RD

STATION	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc *Note 6	Cut 1.00	Expanded Fill 1.20 *Note 9	Expanded Marsh Backfill 1.50 *Note 7	Mass Ordinate
50+25	0.00	28.65	0.00	0.00	0.00	0	0	0	0	0	0	0	0
50+30	5.00	77.15	0.00	0.00	0.00	10	0	0	0	10	0	0	10
50+35	5.00	127.67	15.00	0.00	0.00	19	1	0	0	29	0	0	27
50+40	5.00	182.31	15.00	0.00	0.00	29	3	0	0	57	0	0	53
50+45	5.00	246.64	15.00	0.00	0.00	40	3	0	0	97	0	0	90
50+50	5.00	281.02	15.00	0.00	0.00	49	3	0	0	146	0	0	136
50+55	5.00	278.25	15.00	0.00	0.00	52	3	0	0	198	0	0	185
50+60	5.00	253.56	15.00	0.00	0.00	49	3	0	0	247	0	0	232
50+65	5.00	234.55	15.00	0.00	0.00	45	3	0	0	292	0	0	274
50+70	5.00	220.39	15.00	0.00	0.00	42	3	0	0	334	0	0	314
50+75	5.00	210.31	15.00	0.00	0.00	40	3	0	0	374	0	0	351
50+80	5.00	202.28	15.00	0.00	0.00	38	3	0	0	412	0	0	386
50+85	5.00	196.88	15.00	0.00	0.00	37	3	0	0	449	0	0	420
50+88.99	3.99	194.69	15.00	0.00	0.00	29	2	0	0	478	0	0	447
51+00	11.01	201.06	15.00	0.00	0.00	81	6	0	0	559	0	0	522
51+50	50.00	262.40	15.00	0.00	0.00	429	28	0	0	988	0	0	923
52+00	50.00	271.35	15.00	0.00	0.00	494	28	0	0	1,482	0	0	1,389
52+50	50.00	262.70	15.00	0.00	0.00	494	28	0	0	1,977	0	0	1,856
53+00	50.00	239.57	15.00	0.00	0.00	465	28	0	0	2,442	0	0	2,293
53+50	50.00	206.27	15.00	0.00	0.00	413	28	0	0	2,855	0	0	2,678
54+00	50.00	250.02	15.00	0.00	0.00	422	28	0	0	3,277	0	0	3,073
54+50	50.00	117.72	15.00	0.21	0.00	341	28	0	0	3,618	0	0	3,386
55+00	50.00	96.62	15.00	1.91	0.00	198	28	2	0	3,816	3	0	3,554
55+50	50.00	80.07	15.00	6.96	0.00	164	28	8	0	3,980	12	0	3,680

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

CTH C WEST

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	AREA (SF) Marsh Exc	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) Marsh Exc *Note 6	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20 *Note 9	Cumulative Vol (CY) Expanded Marsh Backfill 1.50 *Note 7	Mass Ordinate
43+75	0.00	97.88	11.00	1.00	0.00	0	0	0	0	0	0	0	0
44+00	25.00	98.26	11.00	3.49	0.00	91	10	2	0	91	2	0	78
44+50	50.00	96.79	11.00	15.28	0.00	181	20	17	0	271	23	0	218
45+00	50.00	78.22	11.00	26.74	0.00	162	20	39	0	433	70	0	313
45+50	50.00	88.56	11.00	38.62	0.00	154	20	61	0	588	143	0	374
45+97.29	47.29	112.12	11.00	2.90	0.00	176	19	36	0	764	186	0	487
46+00	2.71	113.42	11.00	2.41	0.00	11	1	0	0	775	187	0	497
46+50	50.00	102.20	11.00	10.06	0.00	200	20	12	0	975	200	0	662
47+00	50.00	95.93	11.00	15.21	0.00	183	20	23	0	1,158	229	0	797
47+21.79	21.79	98.17	11.00	10.65	0.00	78	9	10	0	1,236	241	0	854
47+50	28.21	134.12	11.00	8.45	0.00	121	11	10	0	1,358	253	0	952
48+00	50.00	149.82	11.00	6.86	0.00	263	20	14	0	1,621	270	0	1,177
48+38	38.00	195.18	11.00	8.43	0.00	243	15	11	0	1,863	283	0	1,392
48+50	12.00	212.76	11.00	13.84	0.00	91	5	5	0	1,954	289	0	1,472
48+55.2	5.20	219.18	11.00	15.45	0.00	42	2	3	0	1,996	292	0	1,508
48+60	4.80	221.22	11.00	16.59	0.00	39	2	3	0	2,035	296	0	1,541
48+65	5.00	219.83	11.00	19.95	0.00	41	2	3	0	2,076	300	0	1,576
48+70	5.00	220.11	11.00	22.81	0.00	41	2	4	0	2,116	305	0	1,610
48+75	5.00	222.01	11.00	24.60	0.00	41	2	4	0	2,157	310	0	1,644
48+80	5.00	221.36	11.00	26.00	0.00	41	2	5	0	2,198	315	0	1,677
48+85	5.00	225.02	11.00	26.53	0.00	41	2	5	0	2,240	321	0	1,711
48+90	5.00	224.02	11.00	28.78	0.00	42	2	5	0	2,281	327	0	1,744
48+95	5.00	209.96	11.00	31.18	0.00	40	2	6	0	2,321	334	0	1,776
49+00	5.00	178.99	11.00	33.59	0.00	36	2	6	0	2,357	341	0	1,802
49+05	5.00	142.28	11.00	37.97	0.00	30	2	7	0	2,387	349	0	1,822
49+10	5.00	117.15	11.00	36.35	0.00	24	2	7	0	2,411	357	0	1,836
49+15	5.00	109.97	11.00	37.16	0.00	21	2	7	0	2,432	366	0	1,847
49+20	5.00	105.56	11.00	36.58	0.00	20	2	7	0	2,452	374	0	1,856
49+25	5.00	102.77	11.00	32.74	0.00	19	2	6	0	2,471	382	0	1,866
49+30	5.00	91.34	11.00	40.22	0.00	18	2	7	0	2,489	390	0	1,874
49+35	5.00	78.73	11.00	41.38	0.00	16	2	8	0	2,505	399	0	1,878
49+40	5.00	107.07	11.00	16.62	0.00	17	2	5	0	2,522	405	0	1,887
49+45	5.00	107.13	11.00	5.06	0.00	20	2	2	0	2,542	408	0	1,902
49+50	5.00	81.04	11.00	5.78	0.00	17	2	1	0	2,560	409	0	1,917
49+55	5.00	66.66	11.00	10.04	0.00	14	2	1	0	2,573	411	0	1,927
49+60	5.00	54.86	11.00	12.69	0.00	11	2	2	0	2,585	413	0	1,933
49+65	5.00	64.01	11.00	12.27	0.00	11	2	2	0	2,596	416	0	1,939
49+70	5.00	62.06	11.00	8.99	0.00	12	2	2	0	2,607	418	0	1,947
49+75	5.00	67.30	11.00	4.18	0.00	12	2	1	0	2,619	420	0	1,955
49+80	5.00	61.01	11.00	2.56	0.00	12	2	1	0	2,631	420	0	1,964
49+85	5.00	47.54	11.00	2.19	0.00	10	2	0	0	2,641	421	0	1,972
49+90	5.00	36.14	0.00	1.58	0.00	8	1	0	0	2,649	421	0	1,978
49+95	5.00	28.20	0.00	0.00	0.00	6	0	0	0	2,655	421	0	1,984

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

CTH C EAST

STATION	Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	AREA (SF) Marsh Exc	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) Marsh Exc *Note 6	Cumulative Vol (CY) Cut 1.00	Cumulative Vol (CY) Expanded Fill 1.20 *Note 9	Cumulative Vol (CY) Expanded Marsh Backfill 1.50 *Note 7	Mass Ordinate
50+05	0.00	18.51	0.00	0.05	0.00	0	0	0	0	0	0	0	0
50+10	5.00	34.39	0.00	1.59	0.00	5	0	0	0	5	0	0	5
50+15	5.00	36.80	11.00	16.28	0.00	7	1	2	0	11	2	0	8
50+20	5.00	41.12	11.00	30.11	0.00	7	2	4	0	19	7	0	8
50+25	5.00	47.02	11.00	39.65	0.00	8	2	6	0	27	15	0	7
50+30	5.00	54.27	11.00	44.43	0.00	9	2	8	0	36	24	0	5
50+35	5.00	64.57	11.00	52.74	0.00	11	2	9	0	47	35	0	3
50+40	5.00	94.50	11.00	42.46	0.00	15	2	9	0	62	46	0	5
50+45	5.00	165.85	11.00	0.18	0.00	24	2	4	0	86	51	0	22
50+50	5.00	181.01	11.00	0.23	0.00	32	2	0	0	118	51	0	52
50+55	5.00	184.59	11.00	0.61	0.00	34	2	0	0	152	51	0	84
50+60	5.00	183.42	11.00	0.18	0.00	34	2	0	0	186	51	0	116
50+65	5.00	176.50	11.00	0.26	0.00	33	2	0	0	219	51	0	147
50+70	5.00	155.45	11.00	5.95	0.00	31	2	1	0	250	51	0	175
50+75	5.00	149.68	11.00	4.01	0.00	28	2	1	0	278	53	0	200
50+80	5.00	129.45	11.00	23.64	0.00	26	2	3	0	304	56	0	221
50+85	5.00	129.82	11.00	44.19	0.00	24	2	6	0	328	63	0	236
50+90	5.00	121.69	11.00	51.29	0.00	23	2	9	0	352	74	0	246
50+95	5.00	104.81	11.00	66.69	0.00	21	2	11	0	373	87	0	252
51+00	5.00	83.56	11.00	123.37	0.00	17	2	18	0	390	108	0	246
51+05	5.00	82.14	11.00	106.80	0.00	15	2	21	0	405	134	0	234
51+10	5.00	84.59	11.00	90.98	0.00	15	2	18	0	421	156	0	225
51+15	5.00	90.34	11.00	83.33	0.00	16	2	16	0	437	175	0	220
51+20	5.00	76.13	11.00	79.39	0.00	15	2	15	0	452	193	0	216
51+25	5.00	78.09	11.00	78.35	0.00	14	2	15	0	467	211	0	210
51+30	5.00	81.46	11.00	78.90	0.00	15	2	15	0	481	228	0	206
51+32.67	2.67	82.11	11.00	76.50	0.00	8	1	8	0	490	237	0	203
51+50	17.33	95.22	11.00	63.44	0.00	57	7	45	0	546	291	0	199
52+00	50.00	132.13	11.00	17.76	0.00	211	20	75	0	757	381	0	299
52+50	50.00	136.62	11.00	10.87	0.00	249	20	27	0	1,006	413	0	496
53+00	50.00	162.49	11.00	9.74	0.00	277	20	19	0	1,283	436	0	730
53+50	50.00	140.20	11.00	20.10	0.00	280	20	28	0	1,563	469	0	956
54+00	50.00	138.40	11.00	9.87	0.00	258	20	28	0	1,821	503	0	1,161
54+50	50.00	141.86	11.00	1.33	0.00	260	20	10	0	2,080	515	0	1,387
55+00	50.00	221.43	11.00	1.74	0.00	336	20	3	0	2,417	518	0	1,700
55+50	50.00	206.51	11.00	0.01	0.00	396	20	2	0	2,813	520	0	2,074
56+00	50.00	206.61	11.00	3.45	0.00	383	20	3	0	3,196	524	0	2,432
56+50	50.00	206.04	11.00	5.36	0.00	382	20	8	0	3,578	534	0	2,784
57+00	50.00	189.08	11.00	8.24	0.00	366	20	13	0	3,944	549	0	3,114
57+50	50.00	165.57	11.00	12.70	0.00	328	20	19	0	4,272	572	0	3,399
58+00	50.00	141.82	11.00	9.33	0.00	285	20	20	0	4,557	597	0	3,639
58+50	50.00	139.66	11.00	4.04	0.00	261	20	12	0	4,817	612	0	3,864
59+00	50.00	86.59	11.00	5.79	0.00	209	20	9	0	5,027	623	0	4,043
59+25	25.00	75.13	11.00	7.65	0.00	75	10	6	0	5,102	630	0	4,100

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

CHURCH RD

STATION	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			Mass Ordinate
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc *Note 6	Cut 1.00	Expanded Fill 1.20 *Note 9	Expanded Marsh Backfill 1.50 *Note 7	
46+50	0.00	103.98	12.00	5.42	0.00	0	0	0	0	0	0	0	0
47+00	50.00	120.91	12.00	2.00	0.00	208	22	7	0	208	8	0	178
47+50	50.00	117.34	12.00	4.76	0.00	221	22	6	0	429	16	0	369
48+00	50.00	137.07	12.00	2.99	0.00	236	22	7	0	664	24	0	573
48+50	50.00	168.64	12.00	0.44	0.00	283	22	3	0	947	28	0	830
49+00	50.00	194.40	12.00	0.00	0.00	336	22	0	0	1,284	29	0	1,144
49+12.31	12.31	190.29	12.00	1.02	0.00	88	5	0	0	1,371	29	0	1,226
49+15	2.69	186.27	12.00	3.36	0.00	19	1	0	0	1,390	29	0	1,243
49+20	5.00	188.04	12.00	4.77	0.00	35	2	1	0	1,425	30	0	1,275
49+25	5.00	191.21	12.00	4.49	0.00	35	2	1	0	1,460	31	0	1,306
49+30	5.00	190.48	12.00	4.06	0.00	35	2	1	0	1,495	32	0	1,339
49+35	5.00	191.65	12.00	5.25	0.00	35	2	1	0	1,531	33	0	1,371
49+40	5.00	180.69	12.00	5.35	0.00	34	2	1	0	1,565	34	0	1,402
49+45	5.00	154.30	12.00	3.91	0.00	31	2	1	0	1,596	35	0	1,430
49+50	5.00	139.94	12.00	2.92	0.00	27	2	1	0	1,623	36	0	1,454
49+55	5.00	125.74	12.00	1.09	0.00	25	2	0	0	1,648	37	0	1,476
49+60	5.00	113.18	12.00	0.00	0.00	22	2	0	0	1,670	37	0	1,496
49+65	5.00	82.54	12.00	0.00	0.00	18	2	0	0	1,688	37	0	1,511
49+70	5.00	59.96	12.00	0.00	0.00	13	2	0	0	1,701	37	0	1,522
49+75	5.00	39.88	12.00	0.00	0.00	9	2	0	0	1,711	37	0	1,529
49+80	5.00	22.47	0.00	0.00	0.00	6	1	0	0	1,716	37	0	1,534
49+85	5.00	7.52	0.00	0.00	0.00	3	0	0	0	1,719	37	0	1,537

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

52nd RD

STATION	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc *Note 6	Cut 1.00	Expanded Fill 1.20 *Note 9	Expanded Marsh Backfill 1.50 *Note 7	Mass Ordinate
50+15	0.00	22.93	0.00	0.00	0.00	0	0	0	0	0	0	0	0
50+20	5.00	60.49	0.00	0.00	0.00	8	0	0	0	8	0	0	8
50+25	5.00	95.49	22.00	0.00	0.00	14	2	0	0	22	0	0	20
50+30	5.00	126.91	22.00	0.00	0.00	21	4	0	0	43	0	0	37
50+35	5.00	156.11	22.00	0.00	0.00	26	4	0	0	69	0	0	59
50+40	5.00	179.34	22.00	0.00	0.00	31	4	0	0	100	0	0	86
50+45	5.00	185.23	22.00	5.30	0.00	34	4	0	0	134	1	0	115
50+50	5.00	177.74	22.00	12.54	0.00	34	4	2	0	167	3	0	142
50+55	5.00	159.18	22.00	13.24	0.00	31	4	2	0	199	5	0	167
50+60	5.00	153.73	22.00	10.30	0.00	29	4	2	0	228	8	0	189
50+65	5.00	165.66	22.00	6.14	0.00	30	4	2	0	257	10	0	213
50+70	5.00	180.06	22.00	1.20	0.00	32	4	1	0	289	11	0	240
50+75	5.00	163.15	22.00	0.59	0.00	32	4	0	0	321	11	0	267
50+80	5.00	140.18	22.00	1.99	0.00	28	4	0	0	349	11	0	291
50+85	5.00	135.09	22.00	1.35	0.00	25	4	0	0	374	12	0	312
50+88.18	3.18	138.70	22.00	0.49	0.00	16	3	0	0	391	12	0	325
51+00	11.82	142.47	22.00	0.01	0.00	62	10	0	0	452	12	0	377
51+50	50.00	88.87	22.00	0.20	0.00	214	41	0	0	666	12	0	550
51+60	10.00	69.65	22.00	0.17	0.00	29	8	0	0	696	12	0	572

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

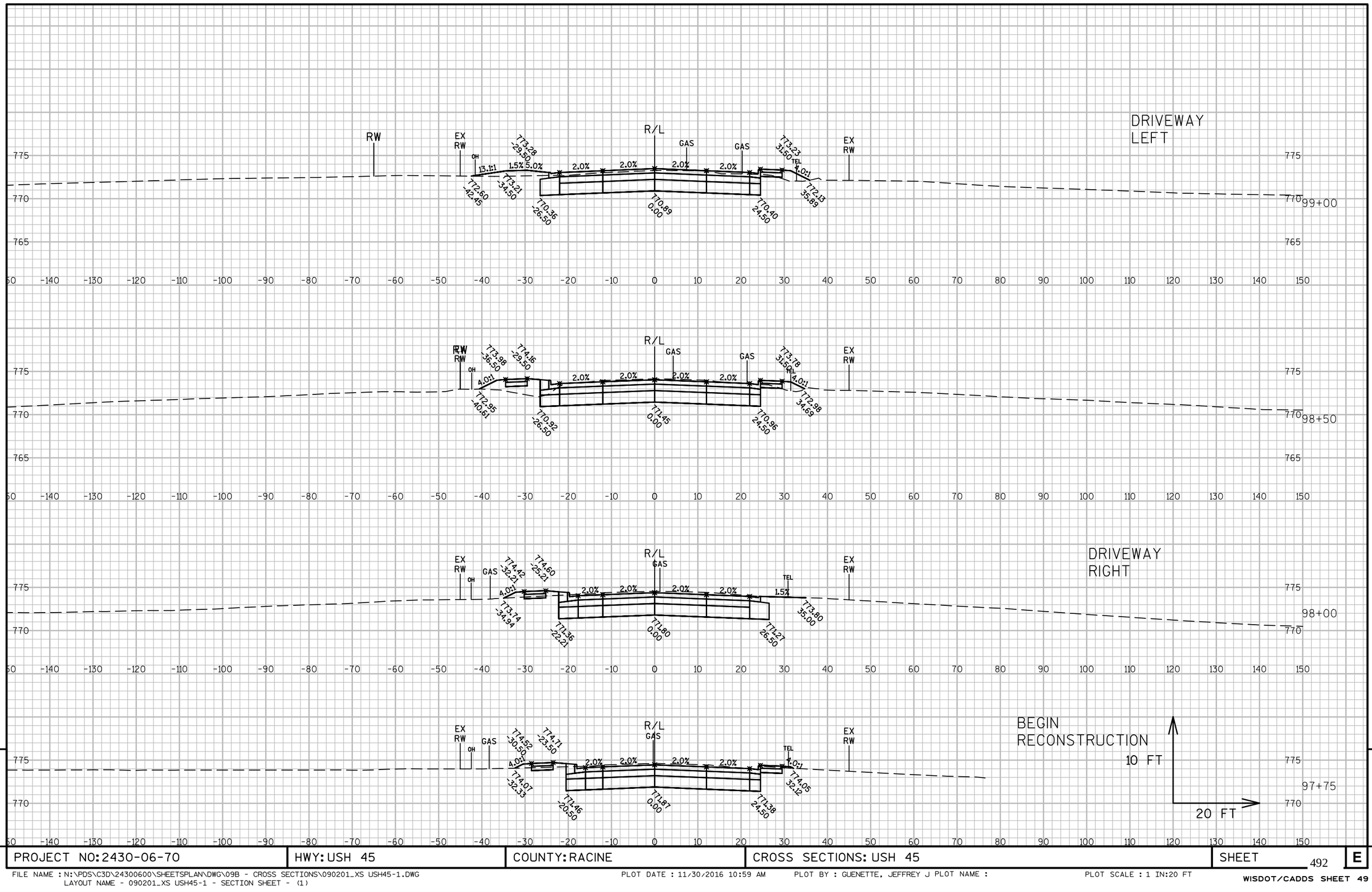
SAVAGE RD														
		AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)				
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc *Note 6	Cut 1.00	Expanded Fill 1.20 *Note 9	Expanded Marsh Backfill 1.50 *Note 7	Mass Ordinate	
50+15	0.00	14.19	0.00	0.00	0.00	0	0	0	0	0	0	0	0	
50+20	5.00	38.45	0.00	0.00	0.00	5	0	0	0	5	0	0	5	
50+25	5.00	67.79	22.00	0.00	0.00	10	2	0	0	15	0	0	13	
50+30	5.00	100.93	22.00	0.00	0.00	16	4	0	0	30	0	0	24	
50+35	5.00	139.77	22.00	0.00	0.00	22	4	0	0	53	0	0	42	
50+40	5.00	176.32	22.00	0.00	0.00	29	4	0	0	82	0	0	68	
50+45	5.00	187.51	22.00	0.00	0.00	34	4	0	0	116	0	0	97	
50+50	5.00	202.81	22.00	0.70	0.00	36	4	0	0	152	0	0	129	
50+55	5.00	190.93	22.00	5.33	0.00	36	4	1	0	188	1	0	161	
50+60	5.00	182.48	22.00	5.91	0.00	35	4	1	0	223	2	0	190	
50+65	5.00	184.50	22.00	5.96	0.00	34	4	1	0	257	3	0	219	
50+70	5.00	175.08	22.00	5.48	0.00	33	4	1	0	290	5	0	247	
50+75	5.00	168.07	22.00	5.08	0.00	32	4	1	0	322	6	0	273	
50+80	5.00	160.31	22.00	4.96	0.00	30	4	1	0	352	7	0	298	
50+85	5.00	154.51	22.00	2.83	0.00	29	4	1	0	381	8	0	323	
50+89.1	4.10	152.76	22.00	0.12	0.00	23	3	0	0	405	8	0	342	
51+00	10.90	147.77	22.00	0.00	0.00	61	9	0	0	465	8	0	394	
51+50	50.00	116.11	22.00	0.86	0.00	244	41	1	0	710	9	0	597	
52+00	50.00	136.97	22.00	1.59	0.00	234	41	2	0	944	12	0	788	
52+50	50.00	99.82	22.00	0.00	0.00	219	41	1	0	1,163	13	0	964	
53+00	50.00	83.23	22.00	0.14	0.00	169	41	0	0	1,333	14	0	1,093	
53+35	35.00	79.03	22.00	0.21	0.00	105	29	0	0	1,438	14	0	1,169	

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.

CTH A

STATION	Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)				Cumulative Vol (CY)			
		Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc	Cut	Salvaged/Unusable Pavement Material	Fill	Marsh Exc *Note 6	Cut 1.00	Expanded Fill 1.20 *Note 9	Expanded Marsh Backfill 1.50 *Note 7	Mass Ordinate
47+50	0.00	90.91	16.00	1.80	0.00	0	0	0	0	0	0	0	0
48+00	50.00	94.70	16.00	10.55	0.00	172	30	11	0	172	14	0	129
48+50	50.00	108.84	16.00	13.71	0.00	188	30	22	0	360	41	0	260
49+00	50.00	100.30	16.00	26.70	0.00	194	30	37	0	554	86	0	379
49+22.18	22.18	67.94	16.00	38.92	0.00	69	13	27	0	623	118	0	403
49+25	2.82	63.09	16.00	41.05	0.00	7	2	4	0	630	123	0	403
49+30	5.00	58.17	16.00	42.72	0.00	11	3	8	0	641	132	0	402
49+35	5.00	58.18	16.00	56.90	0.00	11	3	9	0	652	143	0	399
49+40	5.00	58.83	16.00	69.69	0.00	11	3	12	0	663	157	0	393
49+45	5.00	64.13	16.00	53.62	0.00	11	3	11	0	674	171	0	387
49+50	5.00	68.08	16.00	23.15	0.00	12	3	7	0	686	180	0	388
49+55	5.00	69.27	16.00	5.00	0.00	13	3	3	0	699	183	0	395
49+60	5.00	62.87	16.00	0.00	0.00	12	3	0	0	711	183	0	404
49+65	5.00	53.24	16.00	0.00	0.00	11	3	0	0	722	183	0	411
49+70	5.00	40.23	16.00	0.00	0.00	9	3	0	0	731	183	0	417
49+75	5.00	27.09	16.00	0.00	0.00	6	3	0	0	737	183	0	420
49+80	5.00	17.34	0.00	0.00	0.00	4	1	0	0	741	183	0	423
49+85	5.00	6.71	0.00	0.00	0.00	2	0	0	0	743	183	0	425
50+15	30.00	6.35	0.00	0.00	0.00	7	0	0	0	751	183	0	432
50+20	5.00	16.28	0.00	0.00	0.00	2	0	0	0	753	183	0	435
50+25	5.00	24.49	16.00	0.00	0.00	4	1	0	0	756	183	0	437
50+30	5.00	34.30	16.00	0.00	0.00	5	3	0	0	762	183	0	439
50+35	5.00	44.42	16.00	0.00	0.00	7	3	0	0	769	183	0	444
50+40	5.00	50.10	16.00	0.00	0.00	9	3	0	0	778	183	0	449
50+45	5.00	51.95	16.00	8.19	0.00	9	3	1	0	787	184	0	455
50+50	5.00	49.38	16.00	30.84	0.00	9	3	4	0	797	189	0	457
50+55	5.00	44.77	16.00	57.55	0.00	9	3	8	0	805	198	0	453
50+60	5.00	42.96	16.00	73.38	0.00	8	3	12	0	814	213	0	444
50+65	5.00	43.98	16.00	75.85	0.00	8	3	14	0	822	229	0	432
50+70	5.00	44.58	16.00	68.40	0.00	8	3	13	0	830	246	0	421
50+75	5.00	44.80	16.00	64.79	0.00	8	3	12	0	838	260	0	412
50+77.63	2.63	44.95	16.00	63.77	0.00	4	2	6	0	842	268	0	407
51+00	22.37	45.88	16.00	77.88	0.00	38	13	59	0	880	338	0	361
51+50	50.00	54.49	16.00	96.74	0.00	93	30	162	0	973	532	0	230
52+00	50.00	68.90	16.00	87.93	0.00	114	30	171	0	1,087	737	0	110
52+50	50.00	74.03	16.00	68.02	0.00	132	30	144	0	1,220	911	0	39
53+00	50.00	77.79	16.00	50.11	0.00	141	30	109	0	1,360	1,042	0	19
53+50	50.00	85.76	16.00	45.57	0.00	151	30	89	0	1,512	1,148	0	34
54+00	50.00	87.44	16.00	48.08	0.00	160	30	87	0	1,672	1,252	0	61

*See Earthwork Summary in Miscellaneous Quantities for Earthwork Notes.



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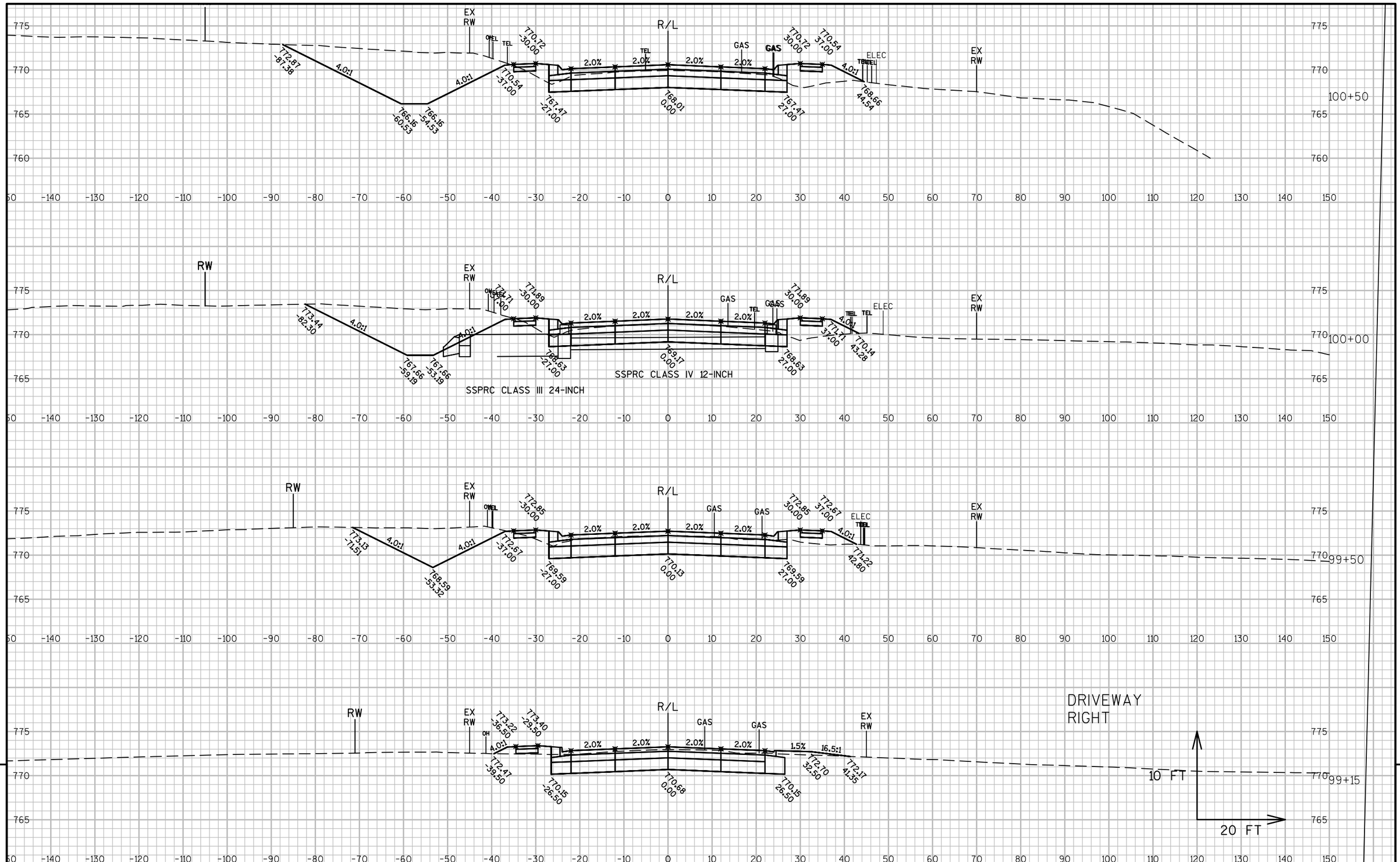
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 492	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-1.DWG
LAYOUT NAME - 090201_XS USH45-1 - SECTION SHEET - (1)
PLOT DATE : 11/30/2016 10:59 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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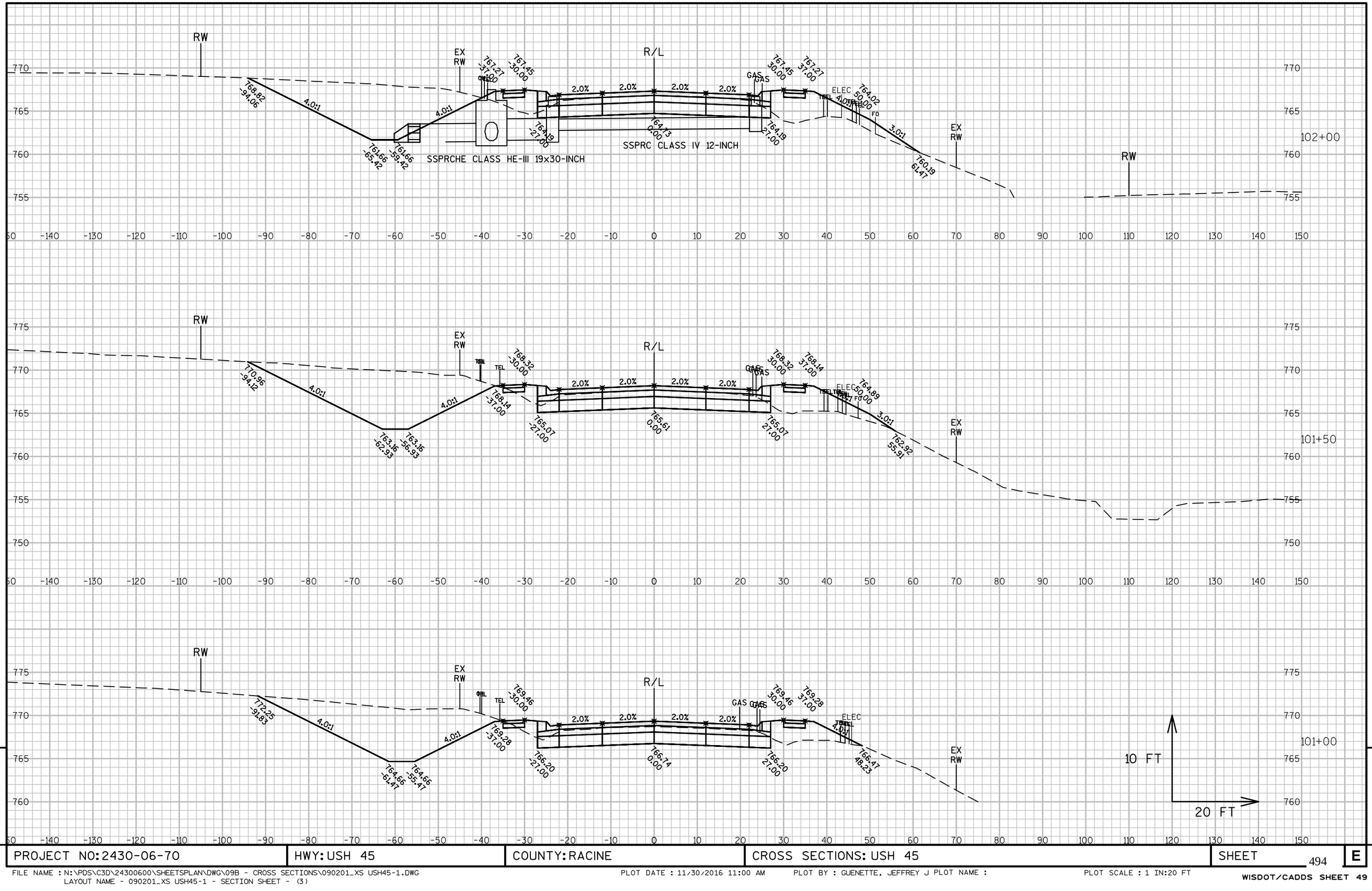
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 493	E



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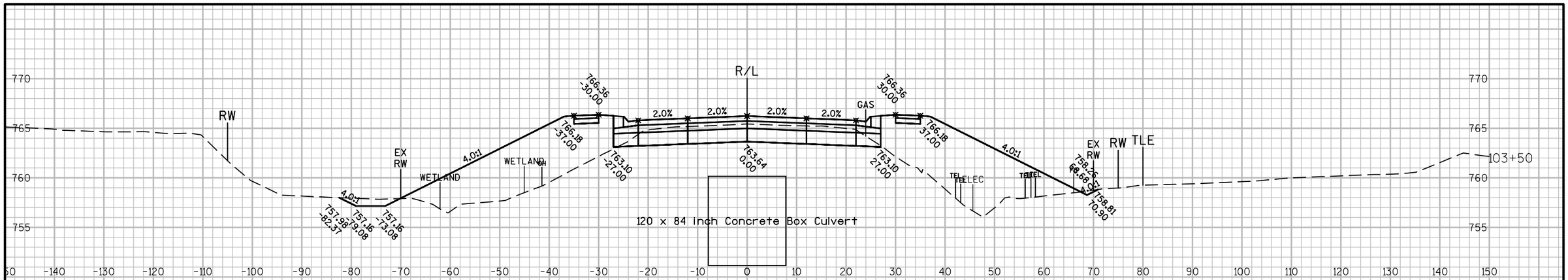
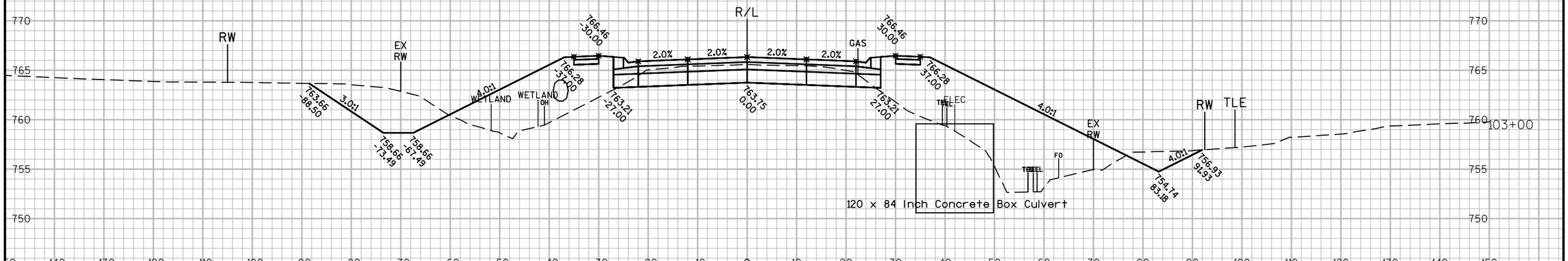
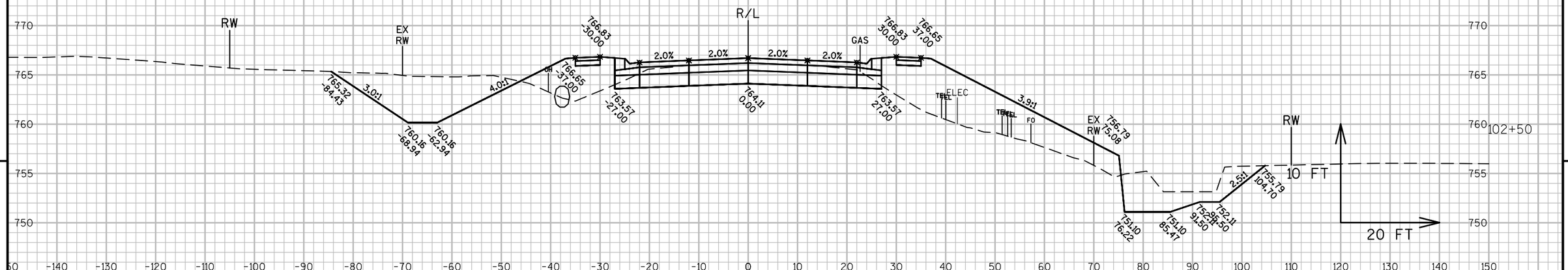
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 494	E



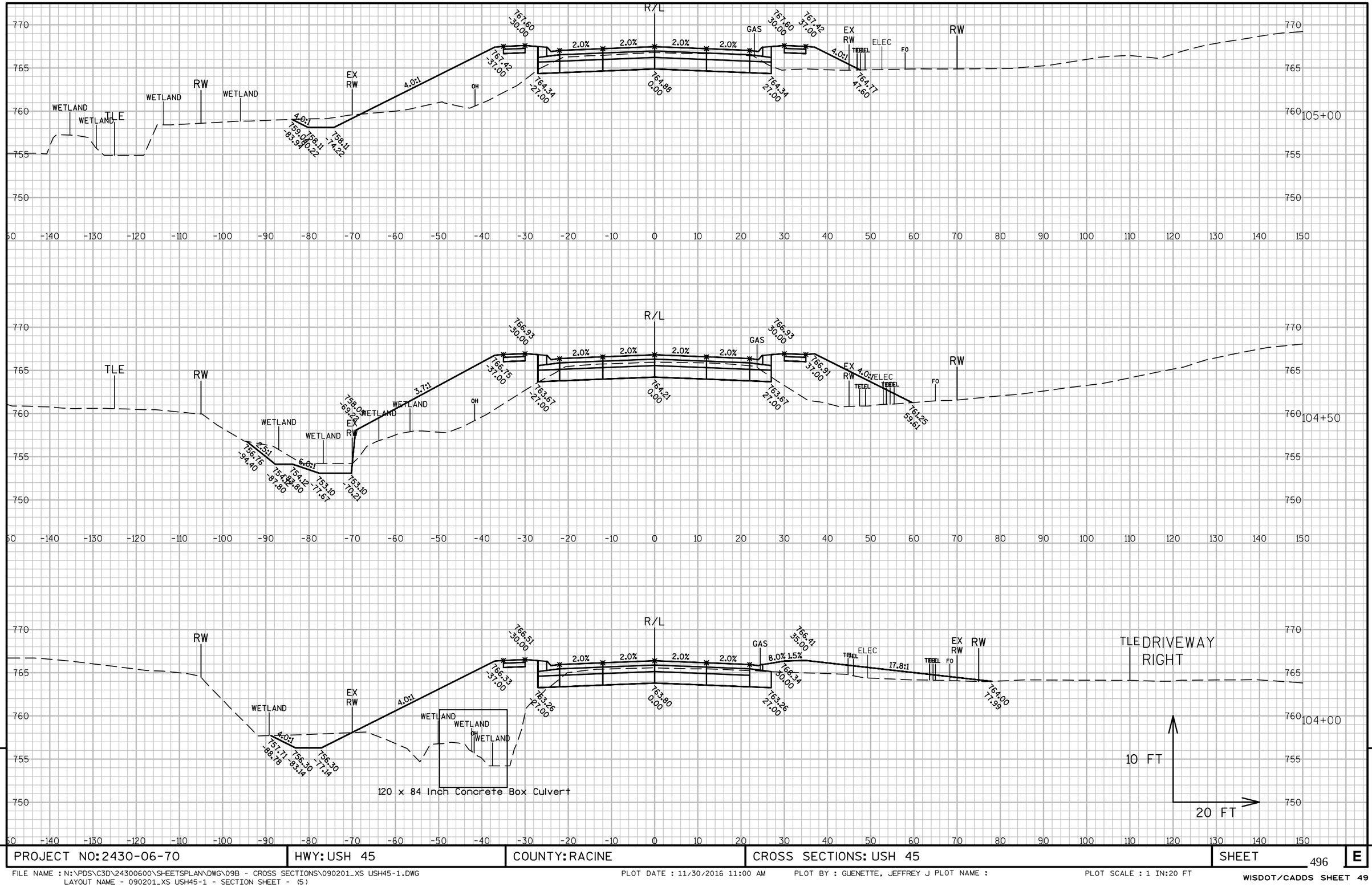




9

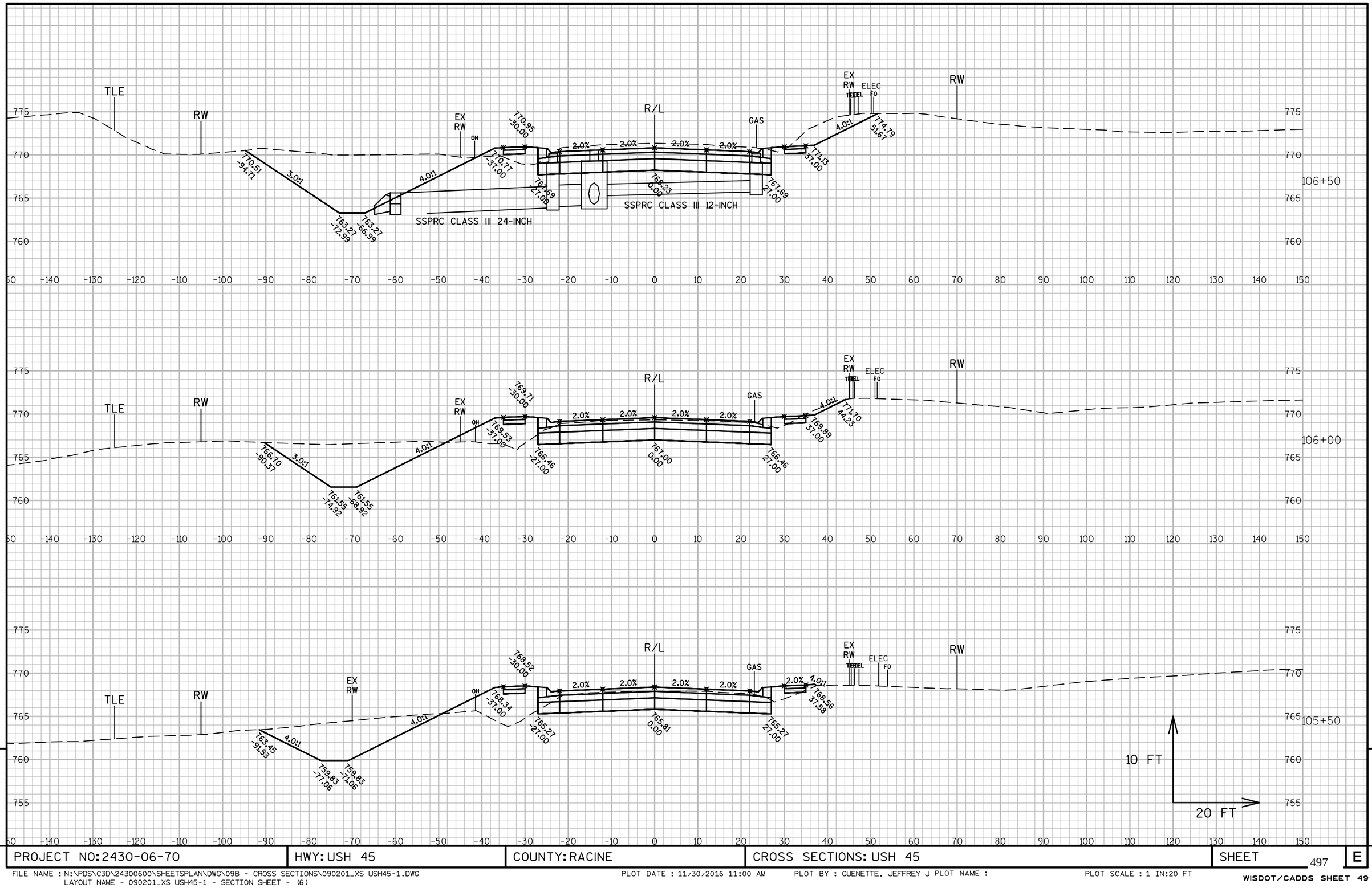
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 495	E



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 496	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-1.DWG
LAYOUT NAME - 090201_XS USH45-1 - SECTION SHEET - (5)
PLOT DATE : 11/30/2016 11:00 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



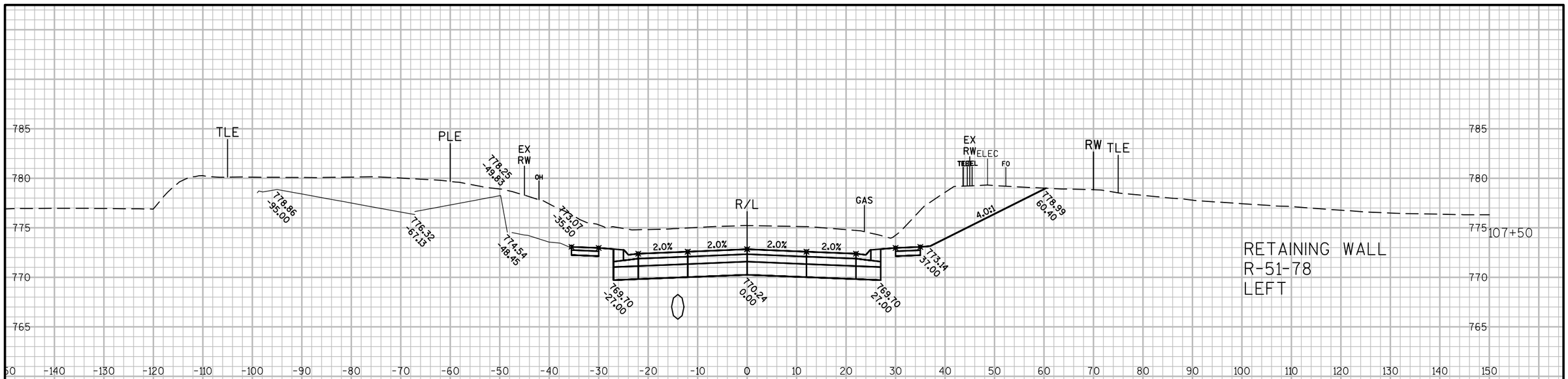
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 497	E

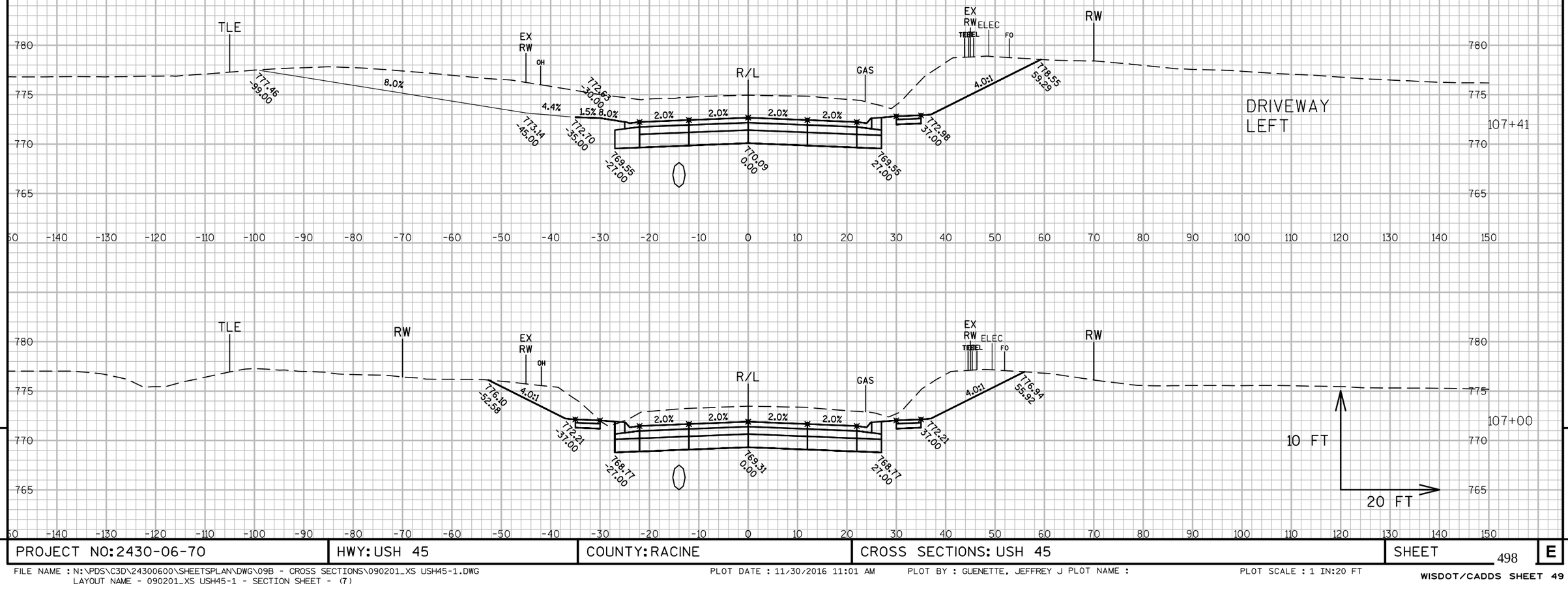
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-1.DWG
LAYOUT NAME - 090201_XS USH45-1 - SECTION SHEET - (6)

PLOT DATE : 11/30/2016 11:00 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49





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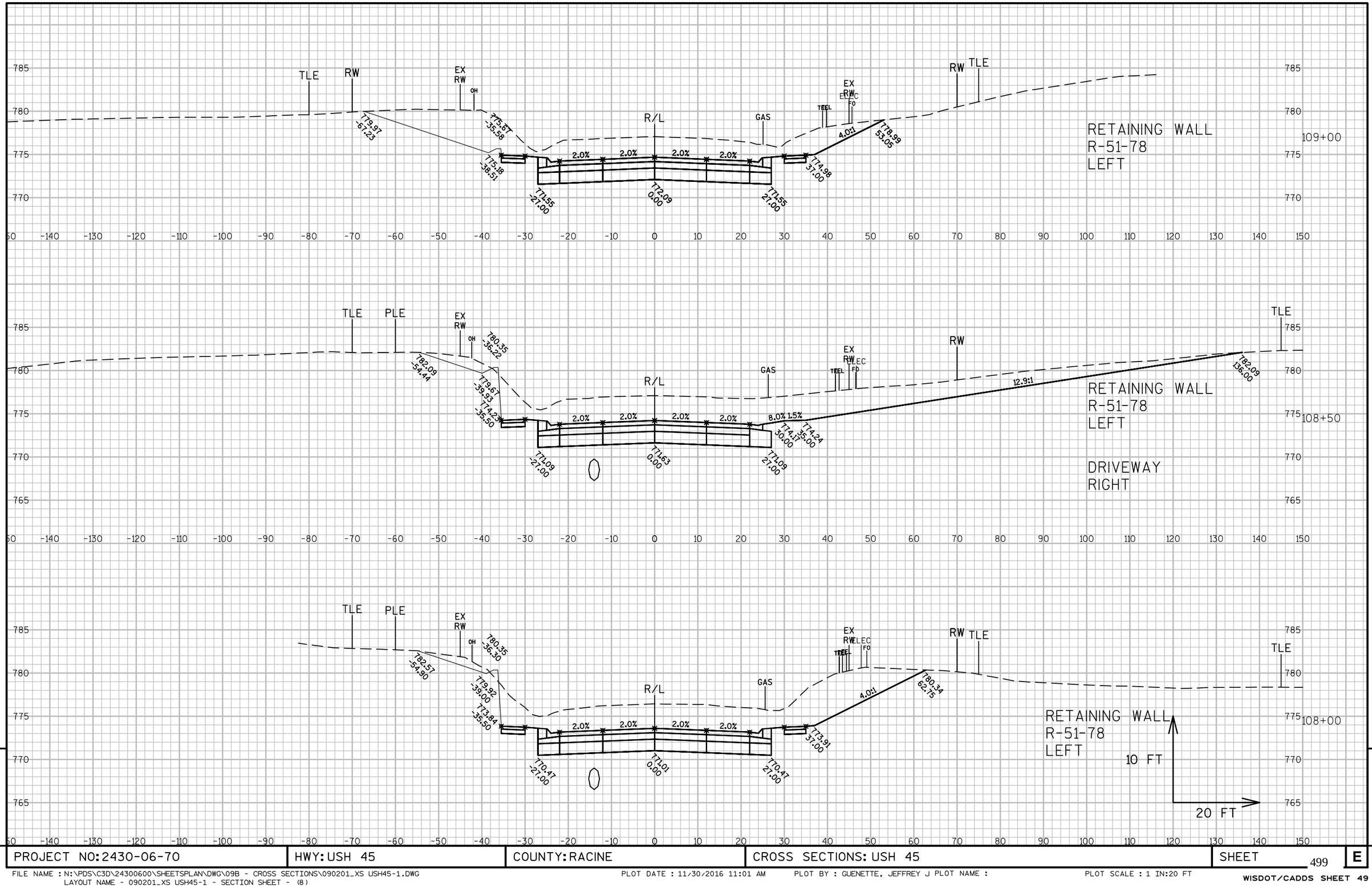
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 498	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-1.DWG
LAYOUT NAME - 090201_XS USH45-1 - SECTION SHEET - (7)

PLOT DATE : 11/30/2016 11:01 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



9

9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 499	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-1.DWG
LAYOUT NAME - 090201_XS USH45-1 - SECTION SHEET - (8)
PLOT DATE : 11/30/2016 11:01 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

9

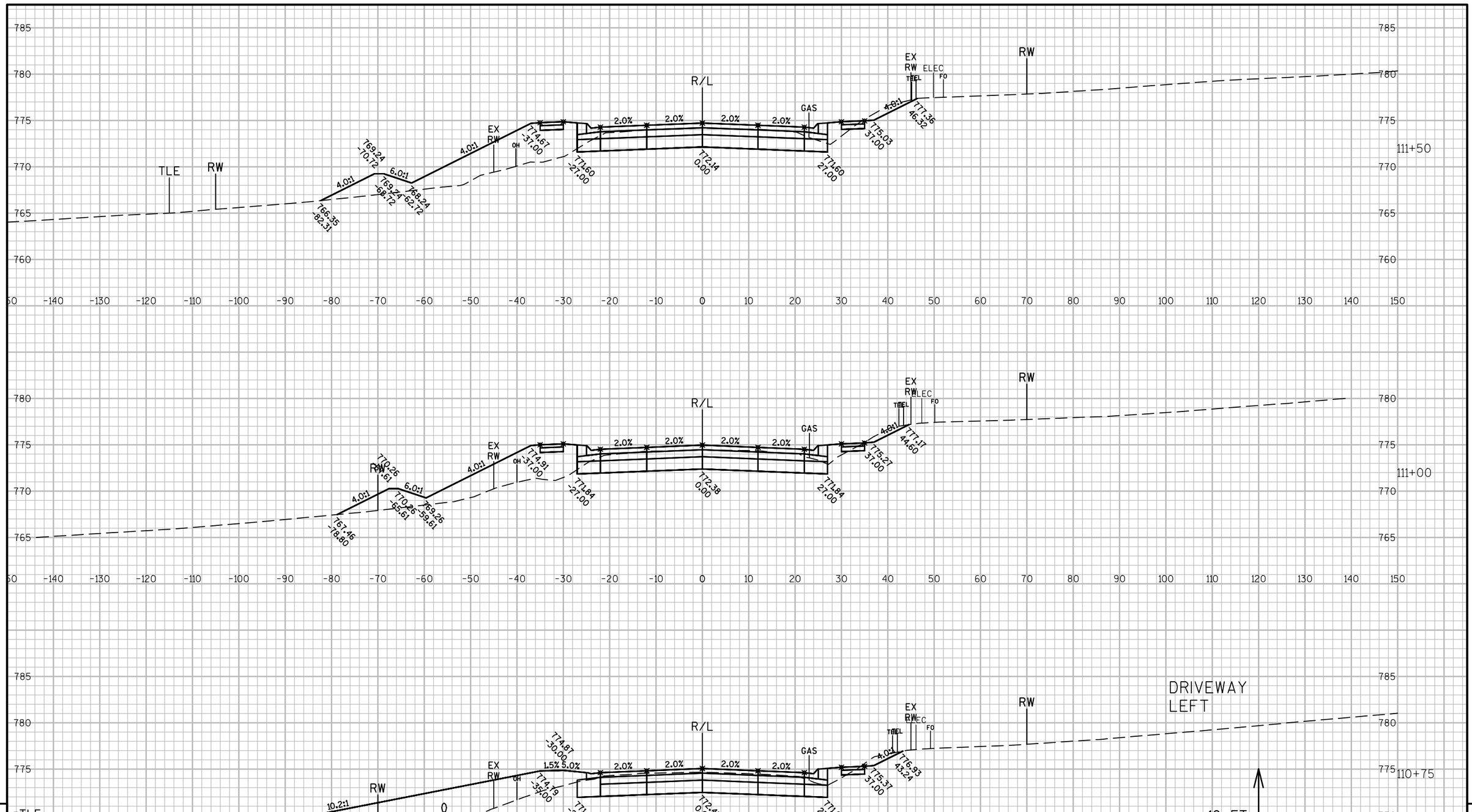
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 500	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-1.DWG
LAYOUT NAME - 090201_XS USH45-1 - SECTION SHEET - (9)

PLOT DATE : 11/30/2016 11:01 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



9

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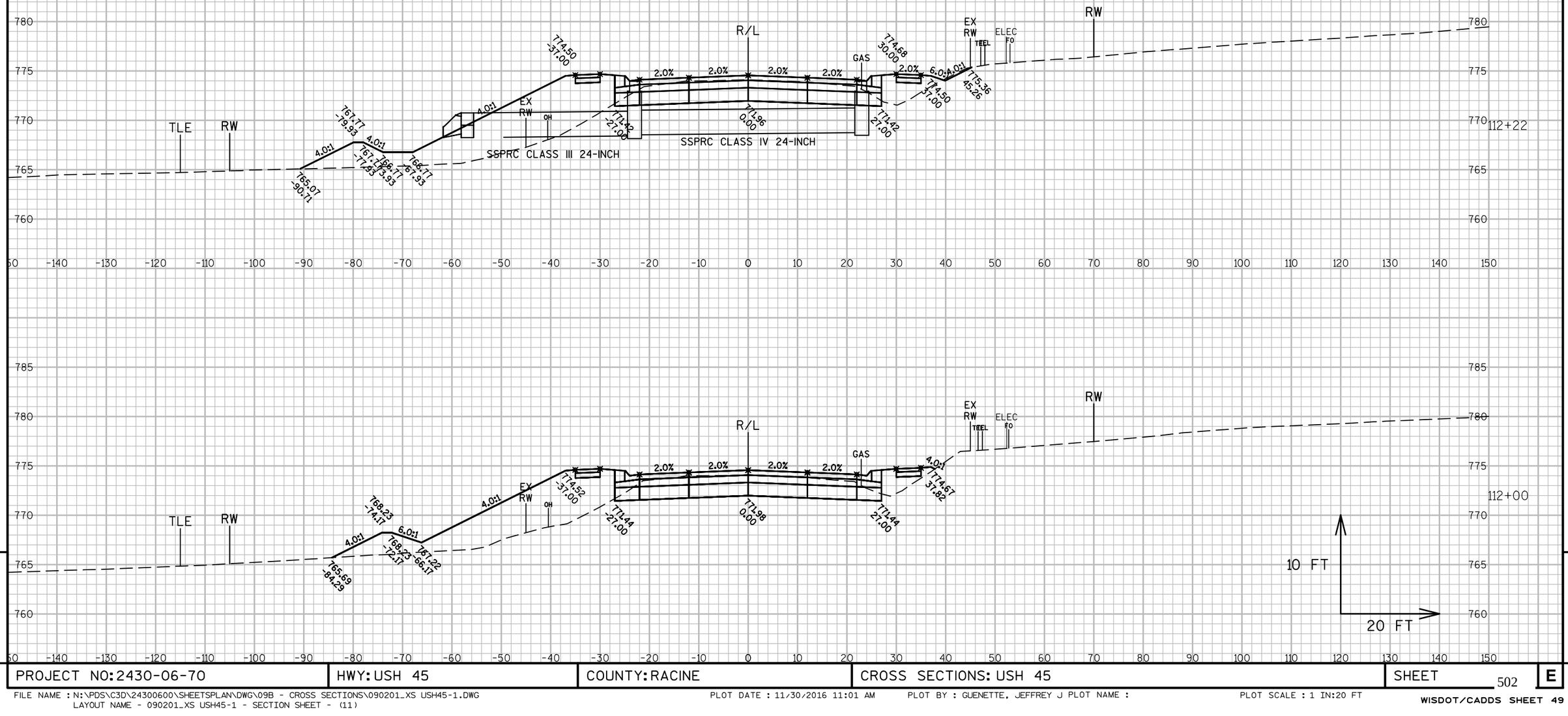
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 501	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-1.DWG
LAYOUT NAME - 090201_XS USH45-1 - SECTION SHEET - (10)
PLOT DATE : 11/30/2016 11:01 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



9

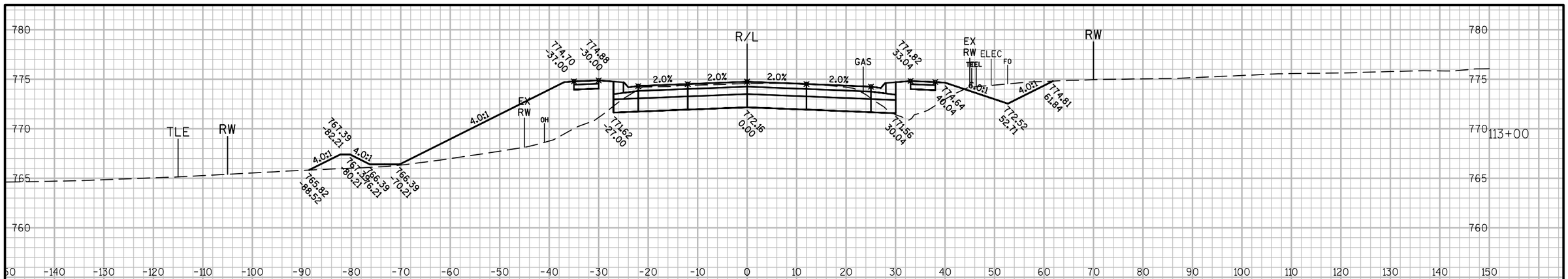
9

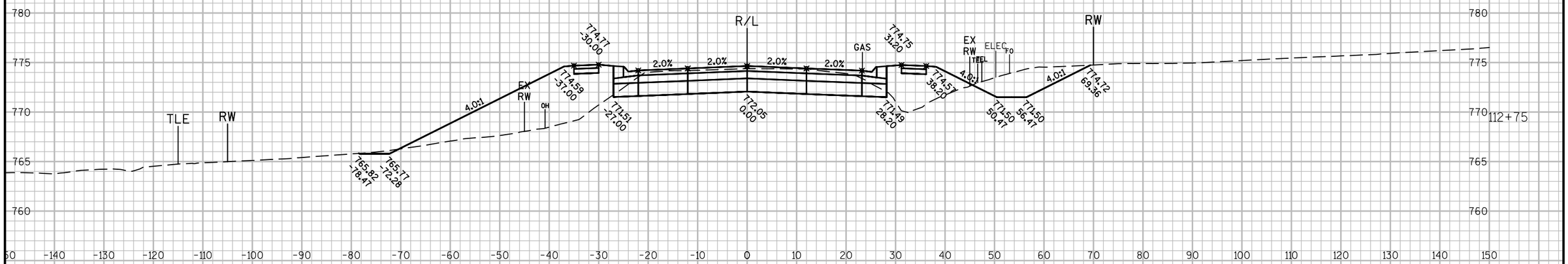
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 502	E

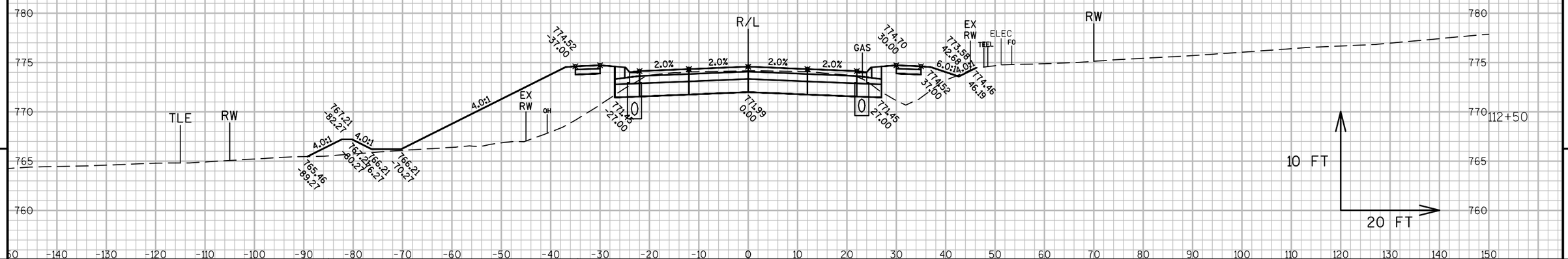
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-1.DWG
LAYOUT NAME - 090201_XS USH45-1 - SECTION SHEET - (11)

PLOT DATE : 11/30/2016 11:01 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







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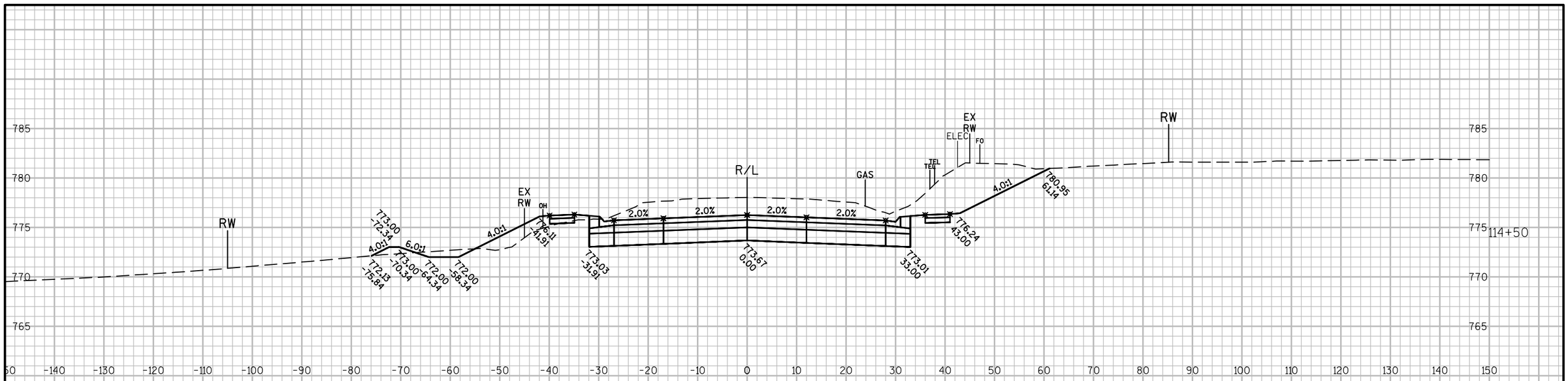
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 503	E

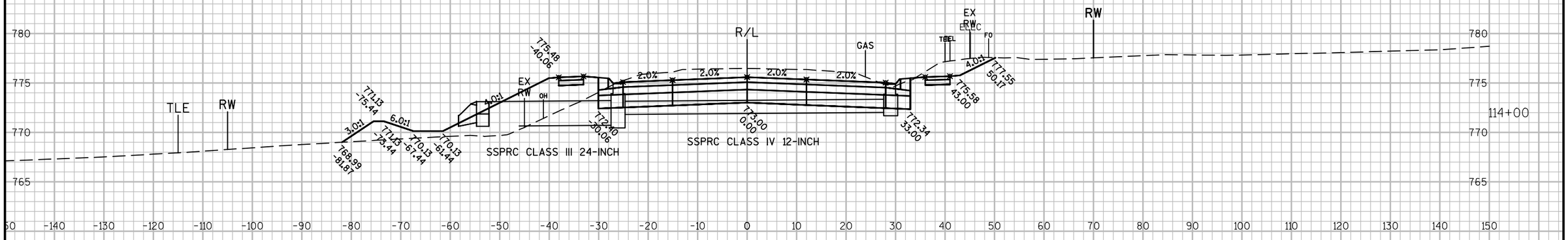
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-1.DWG
LAYOUT NAME - 090201_XS USH45-1 - SECTION SHEET - (12)

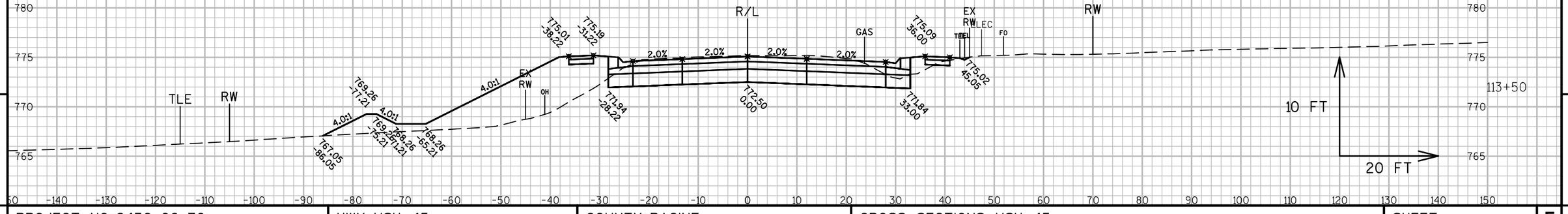
PLOT DATE : 11/30/2016 11:02 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







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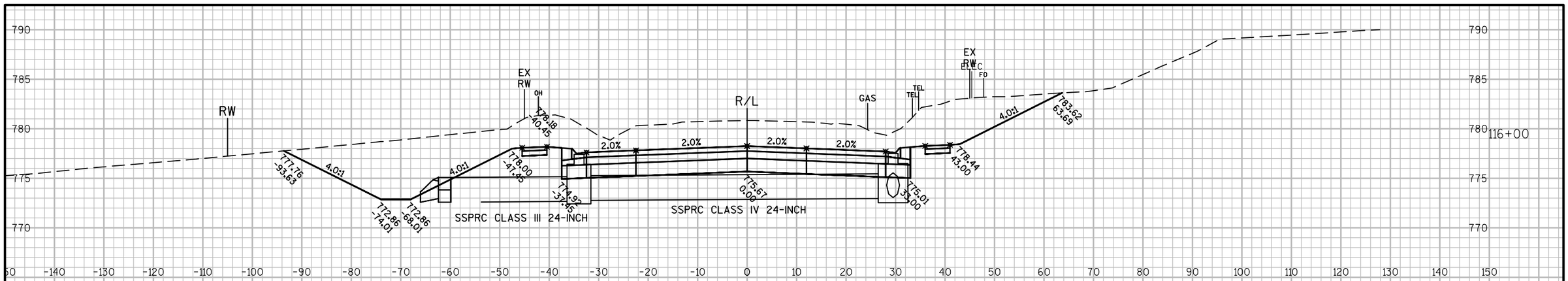
9

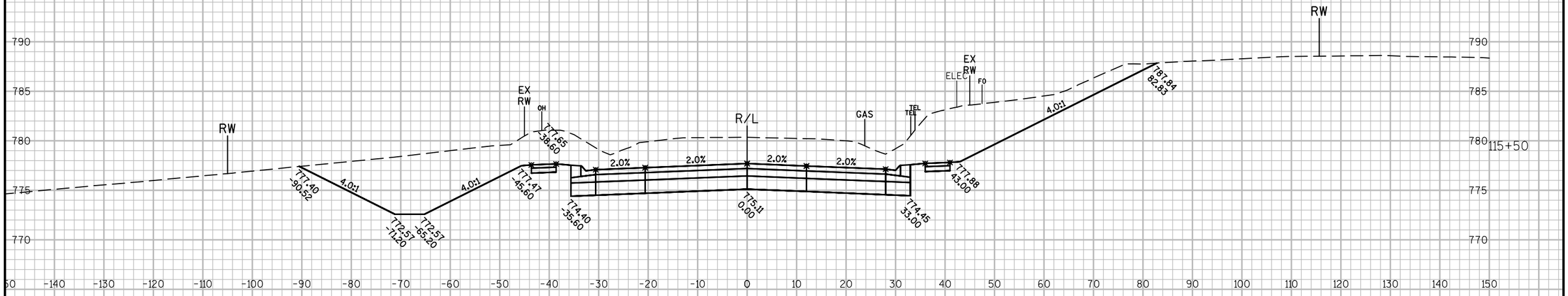
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 504	E

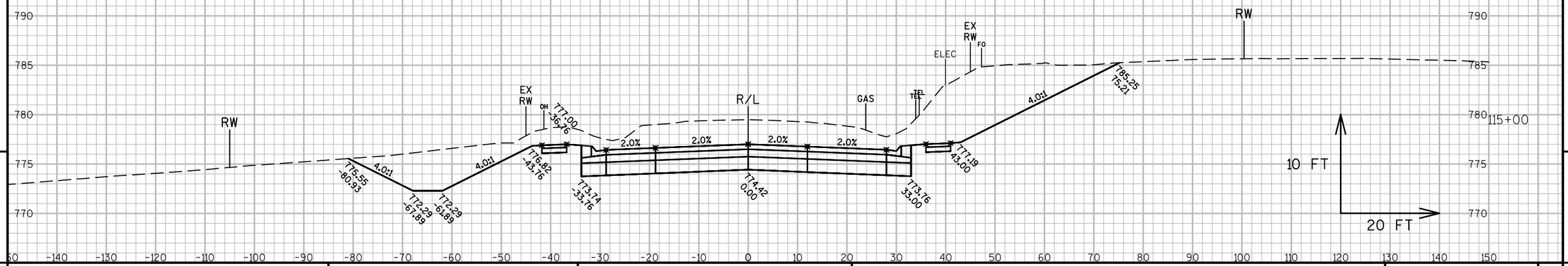
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-1.DWG
LAYOUT NAME - 090201_XS USH45-1 - SECTION SHEET - (13)

PLOT DATE : 11/30/2016 11:02 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







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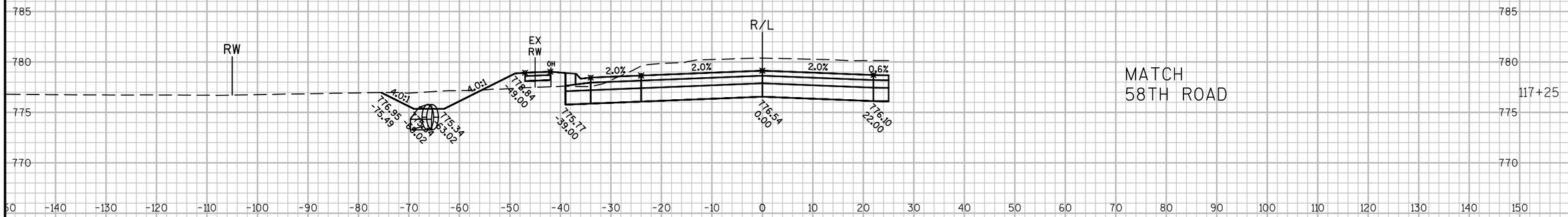
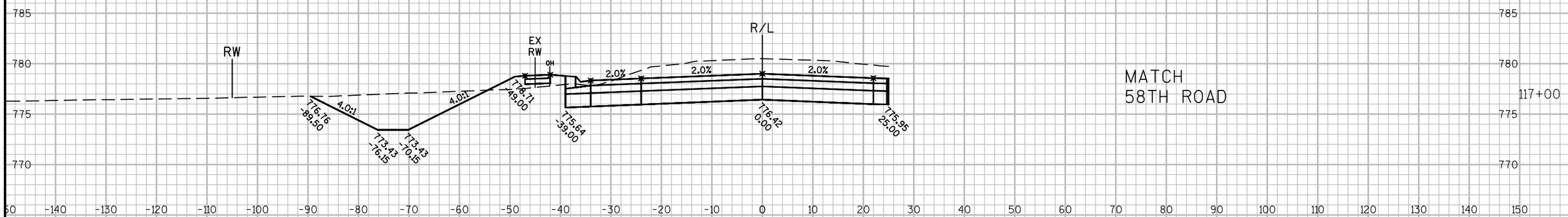
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 505	E

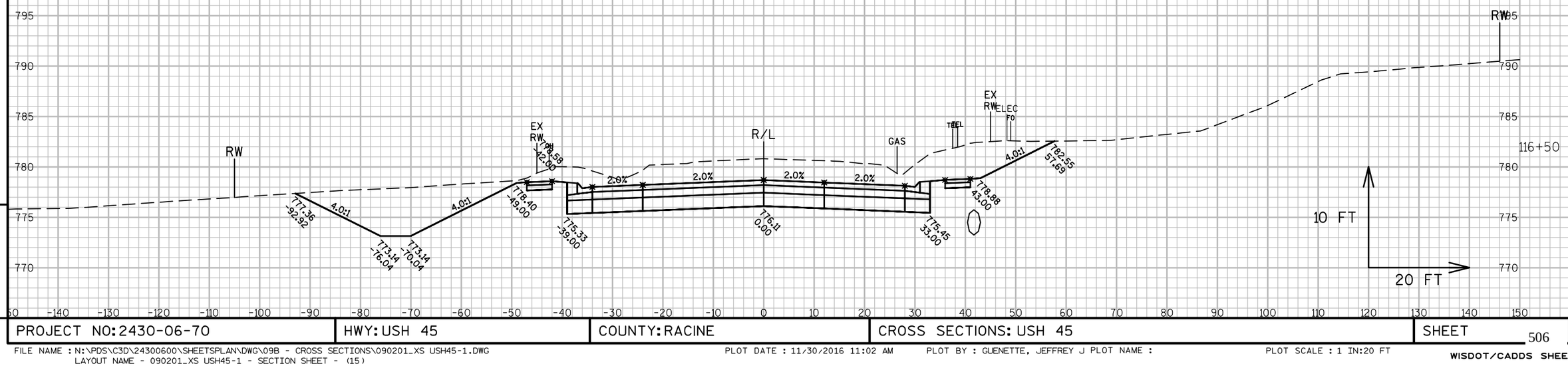
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-1.DWG
LAYOUT NAME - 090201_XS USH45-1 - SECTION SHEET - (14)

PLOT DATE : 11/30/2016 11:02 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT







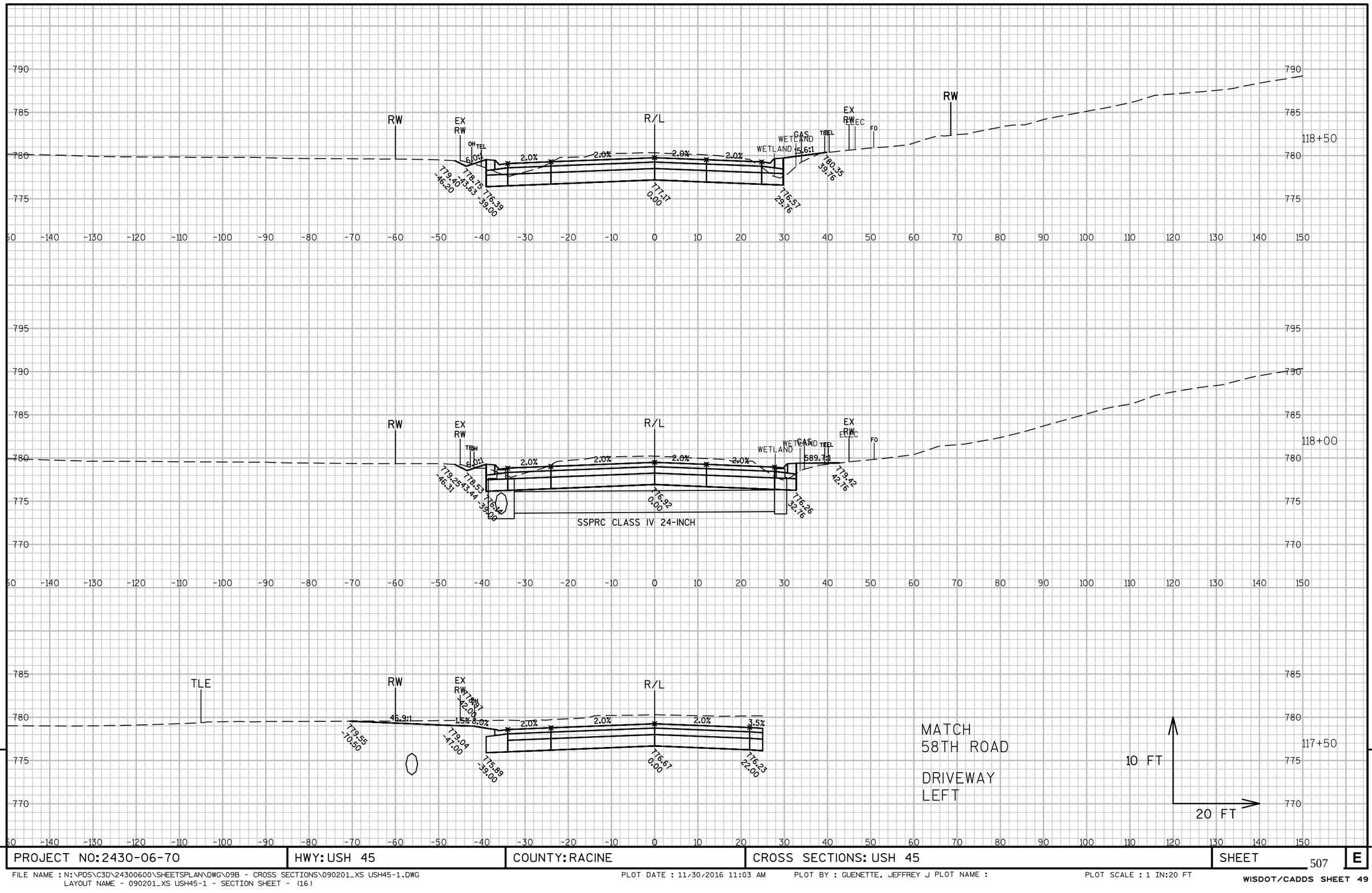
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 506	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-1.DWG
LAYOUT NAME - 090201_XS USH45-1 - SECTION SHEET - (15)

PLOT DATE : 11/30/2016 11:02 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

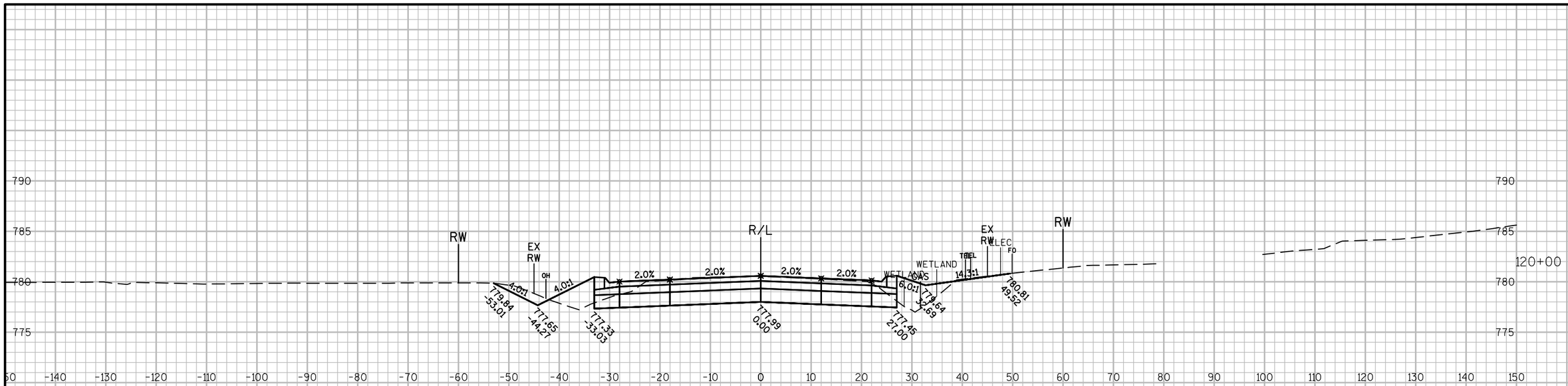
PLOT SCALE : 1 IN:20 FT

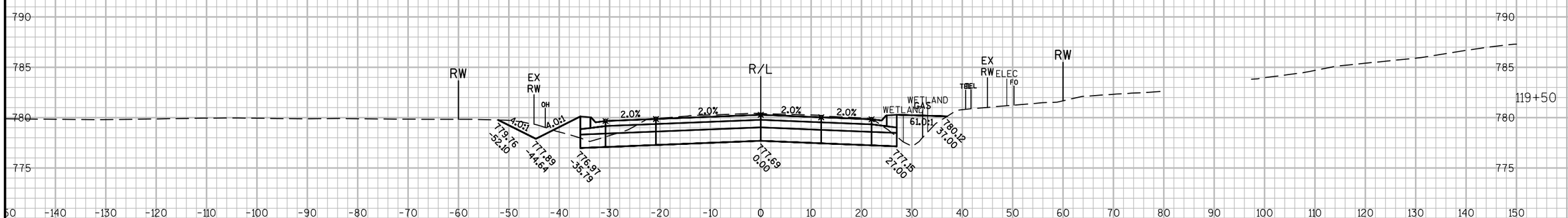
WISDOT/CADDS SHEET 49

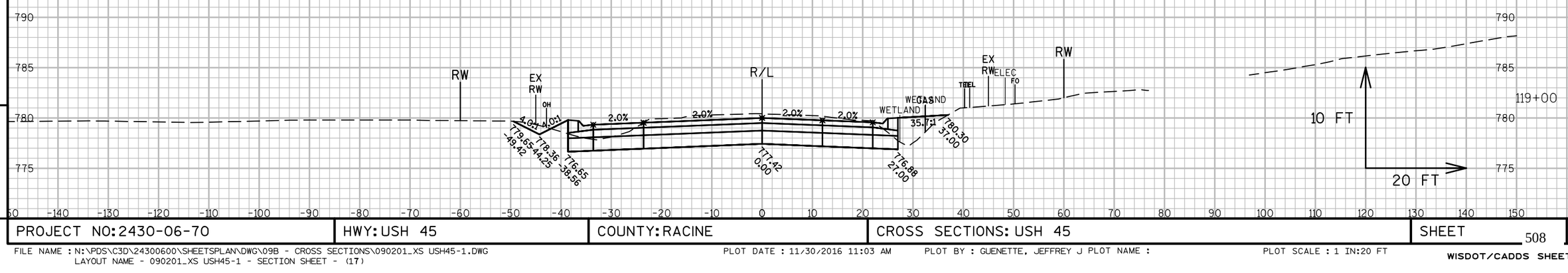


PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 507	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-1.DWG
LAYOUT NAME - 090201_XS USH45-1 - SECTION SHEET - (16)
PLOT DATE : 11/30/2016 11:03 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49







9

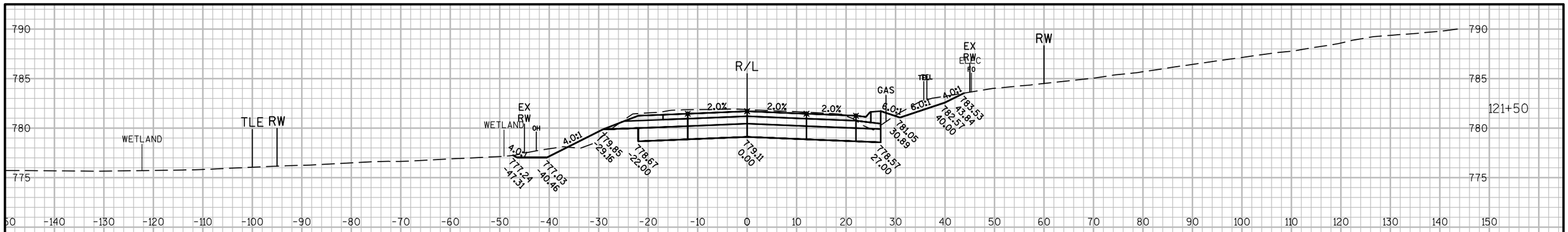
9

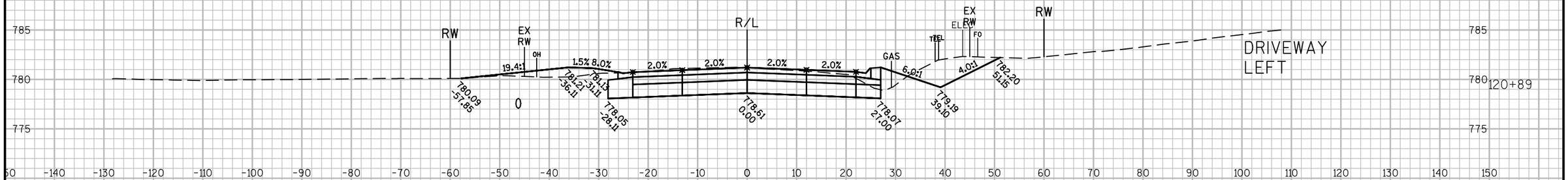
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 508	E

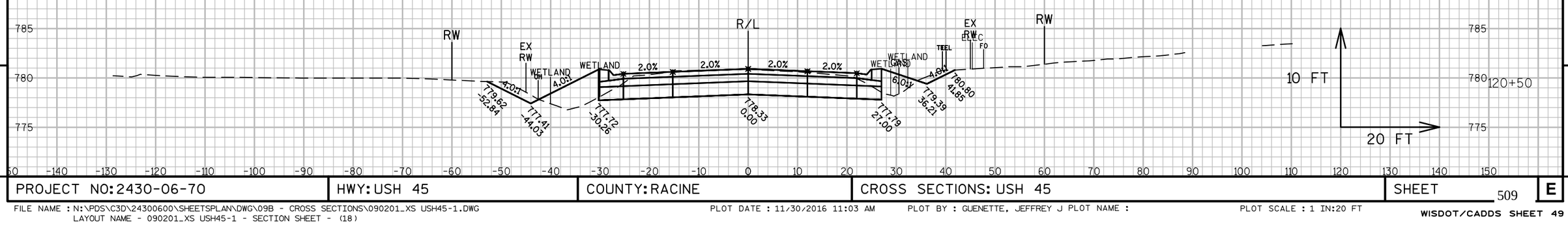
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-1.DWG
LAYOUT NAME - 090201_XS USH45-1 - SECTION SHEET - (17)

PLOT DATE : 11/30/2016 11:03 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







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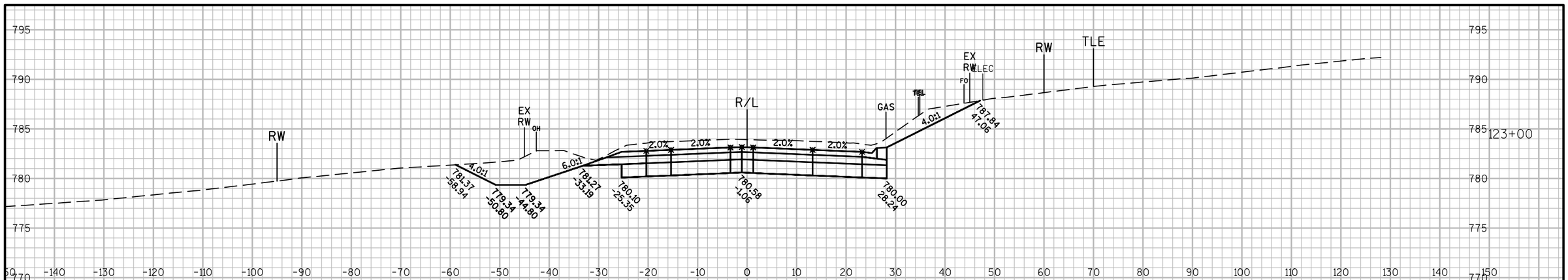
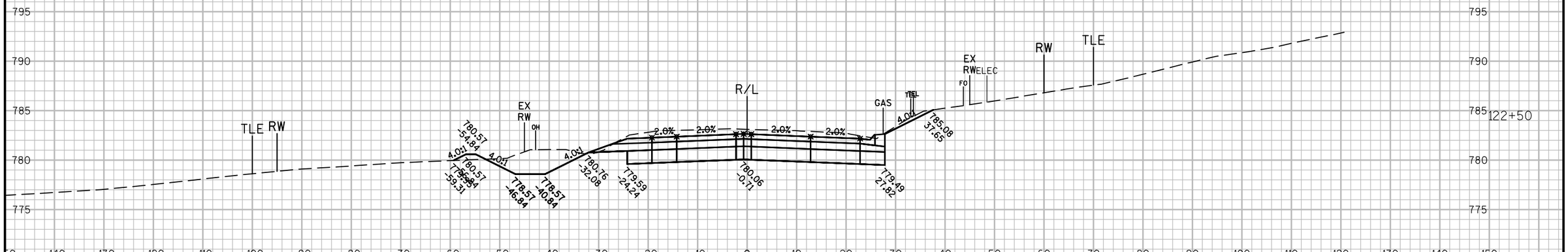
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 509	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-1.DWG
LAYOUT NAME - 090201_XS USH45-1 - SECTION SHEET - (18)

PLOT DATE : 11/30/2016 11:03 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT





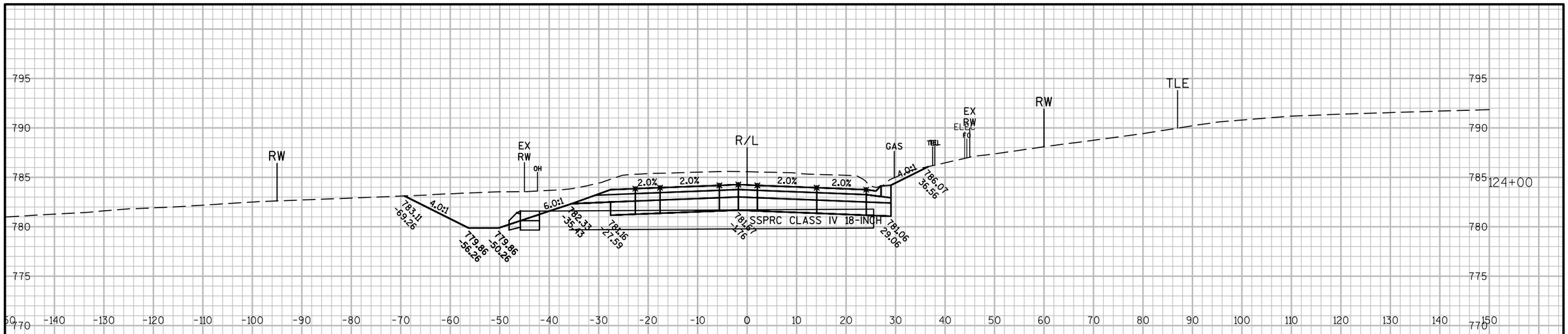
9

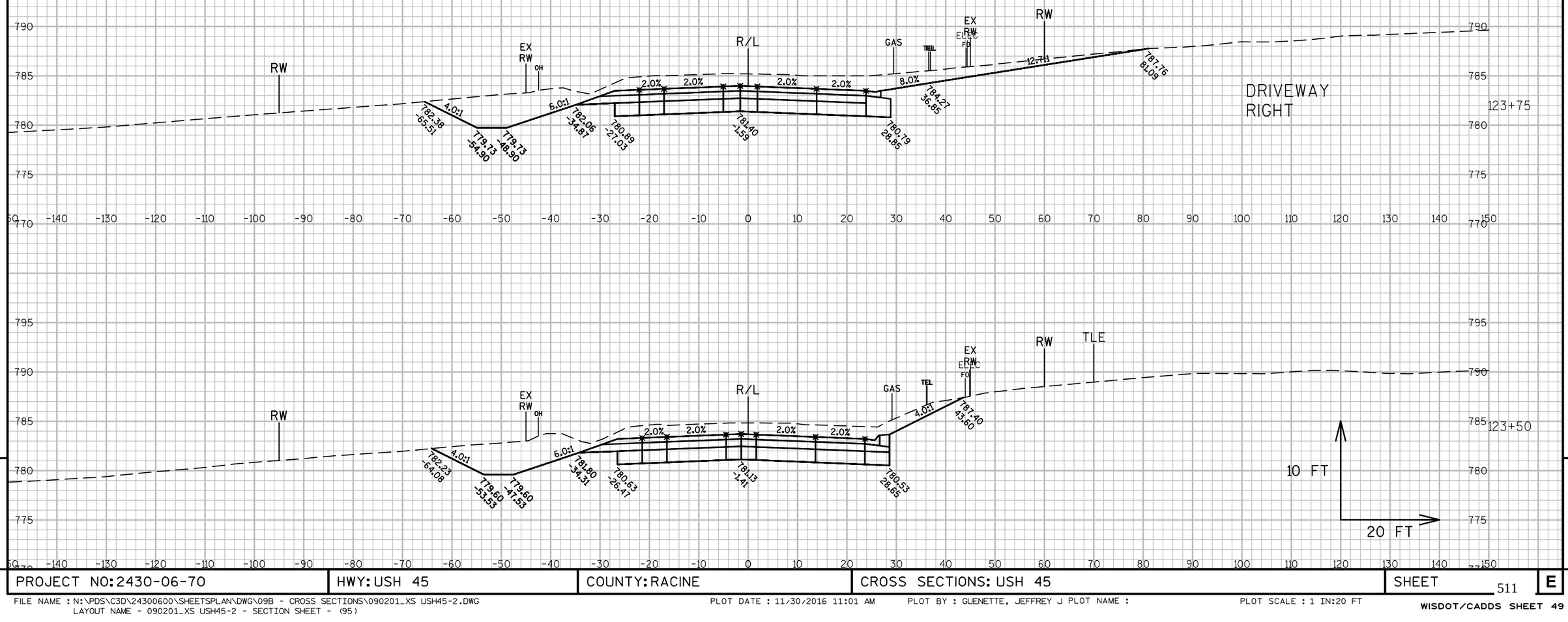
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 510	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (94)

PLOT DATE : 11/30/2016 11:00 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT



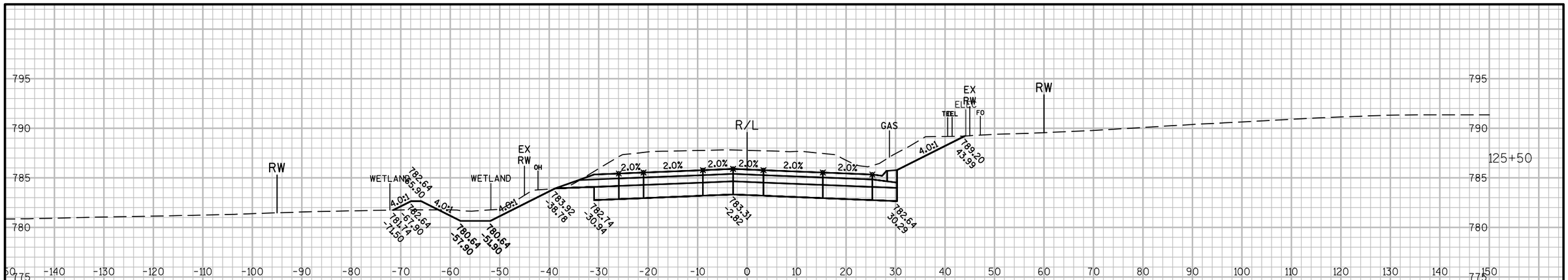


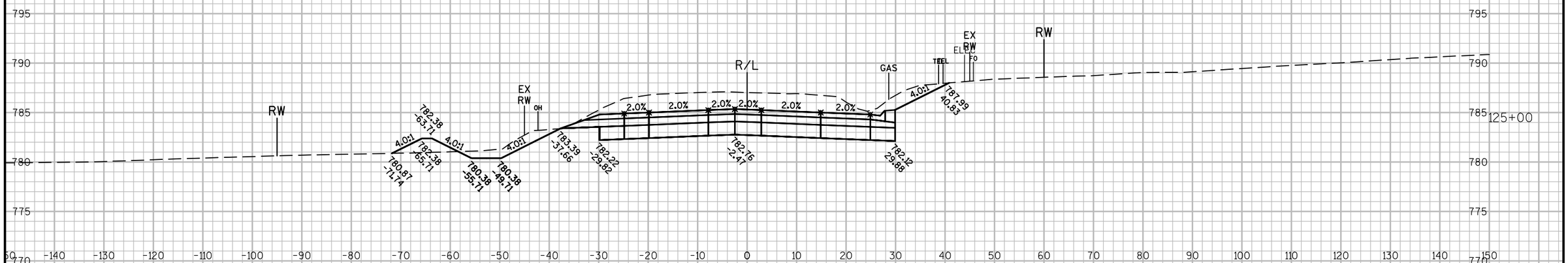
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 511	E

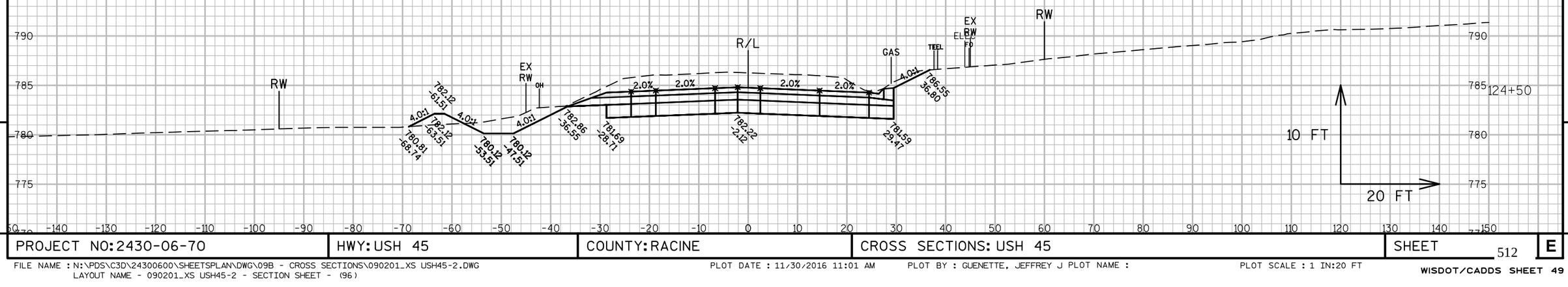
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (95)

PLOT DATE : 11/30/2016 11:01 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT







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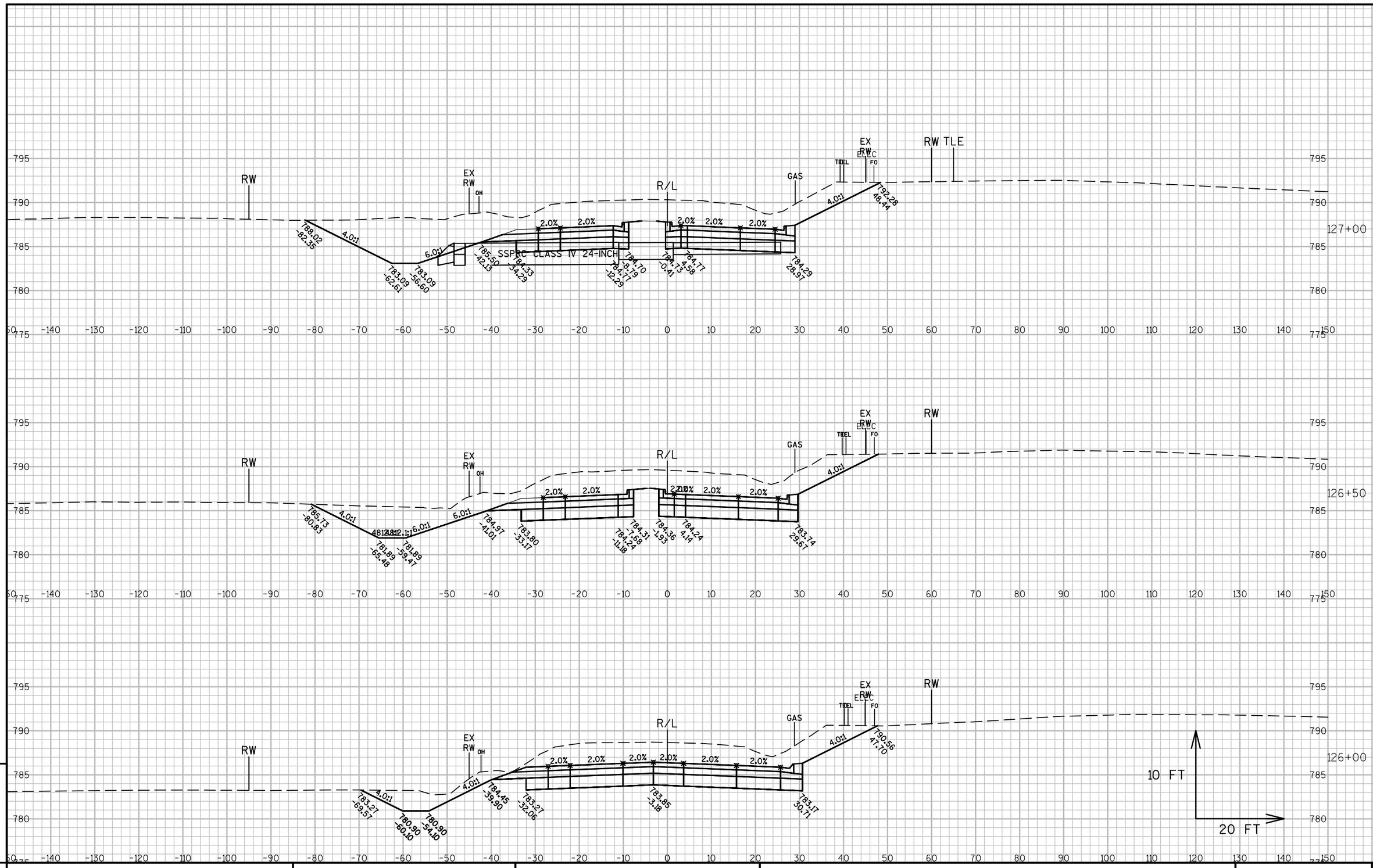
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 512	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (96)

PLOT DATE : 11/30/2016 11:01 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



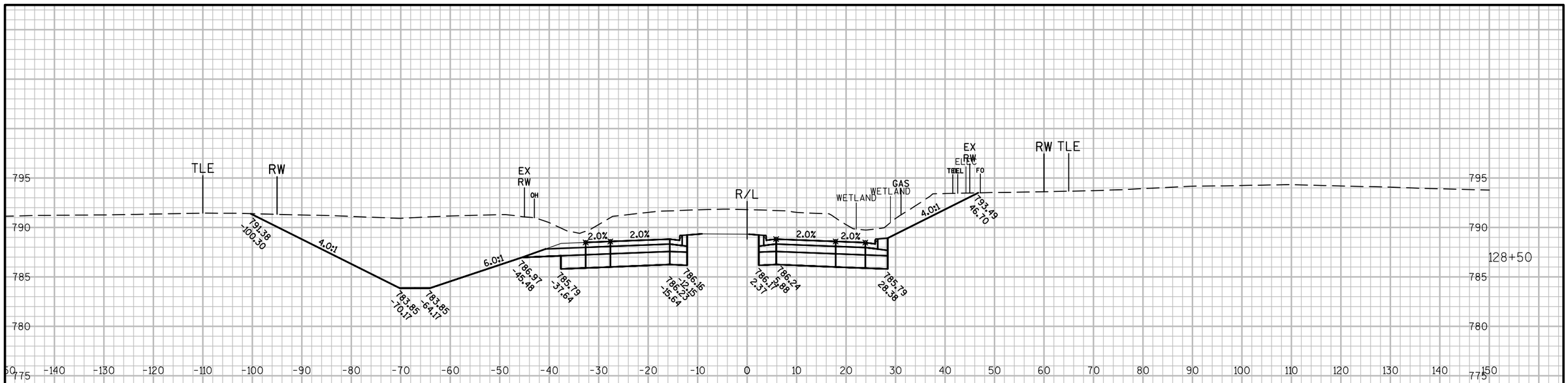
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 513	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (97)

PLOT DATE : 11/30/2016 11:01 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

9

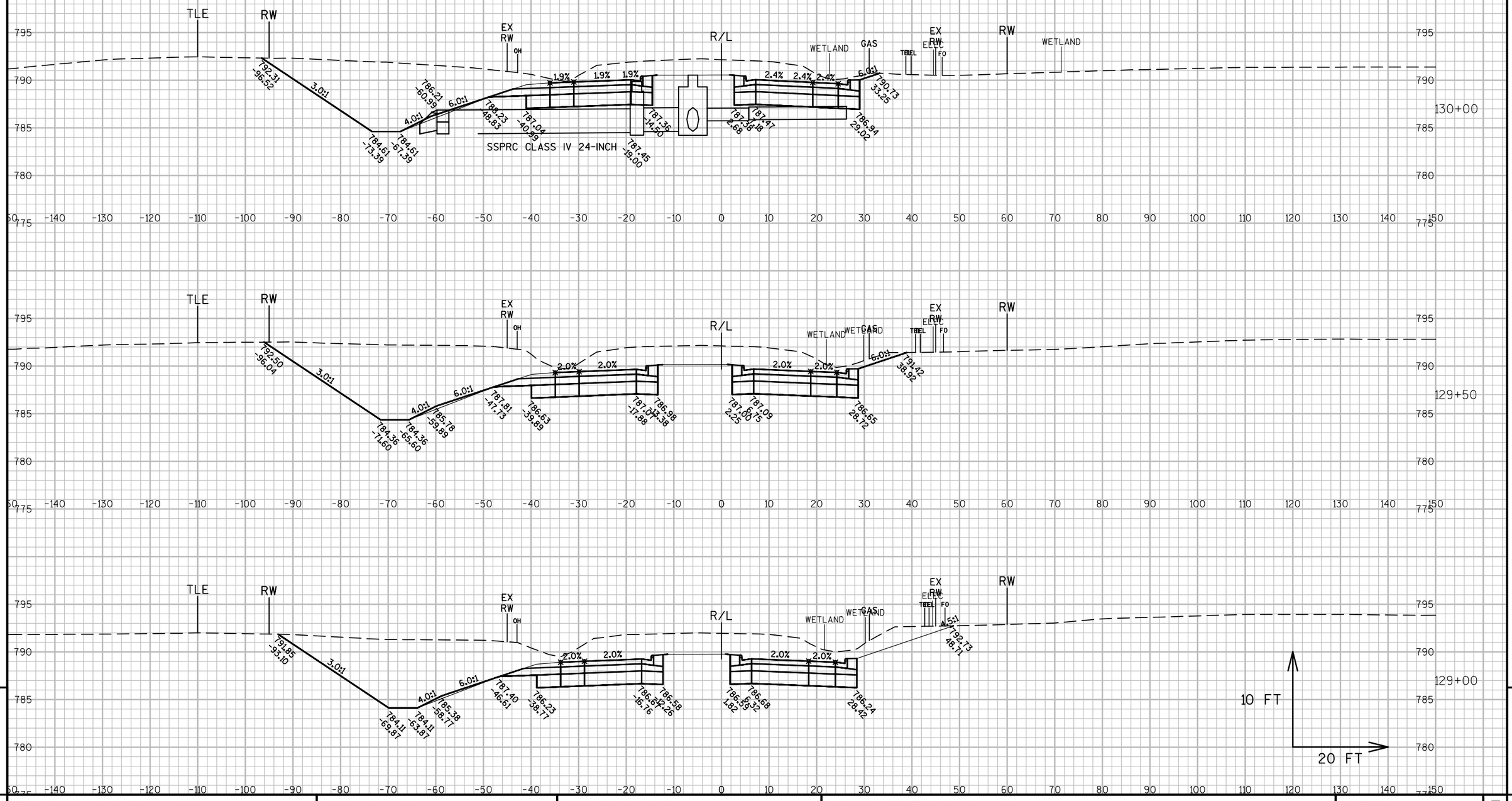
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 514	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (98)

PLOT DATE : 11/30/2016 11:02 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

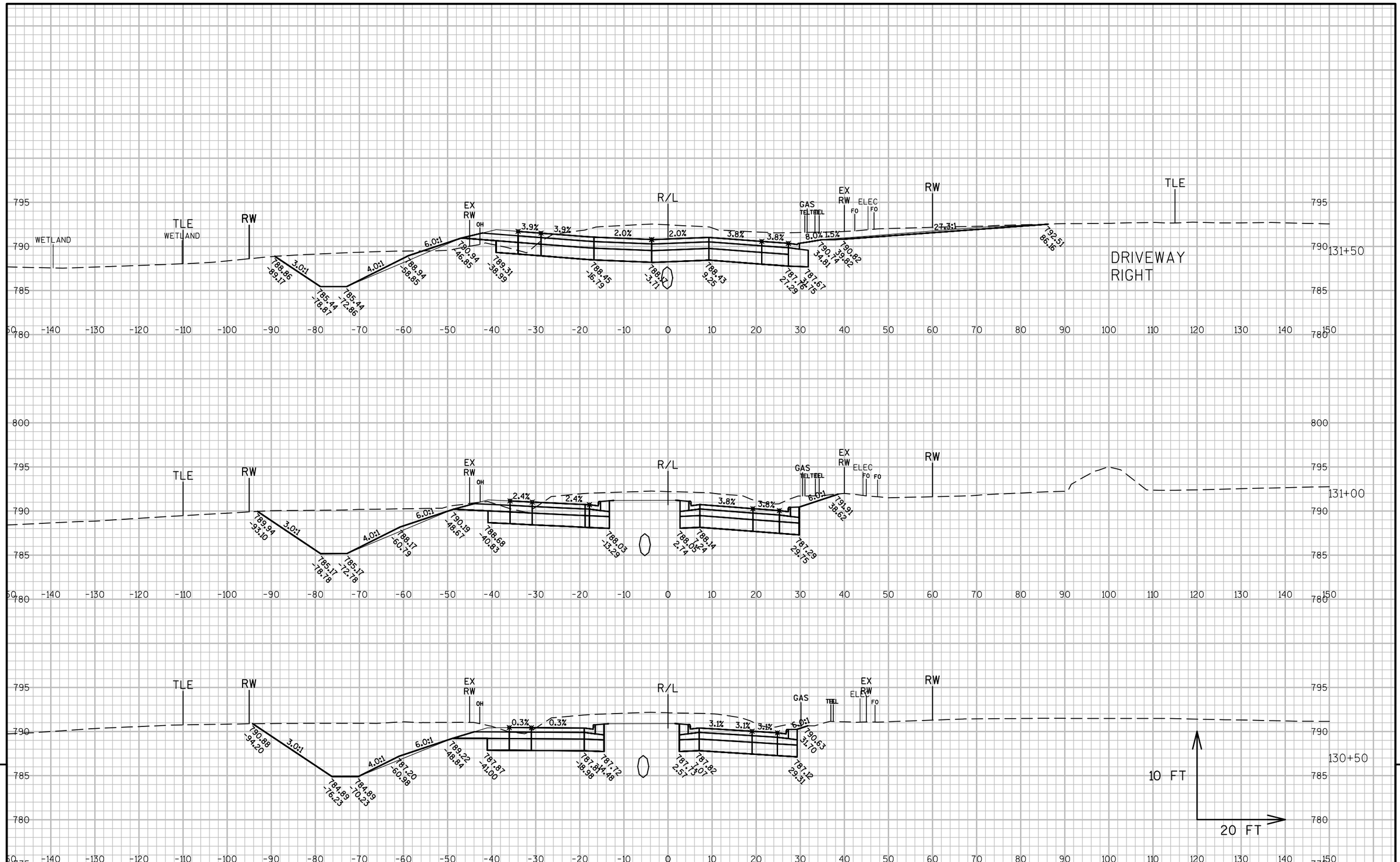
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 515	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (99)

PLOT DATE : 11/30/2016 11:02 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

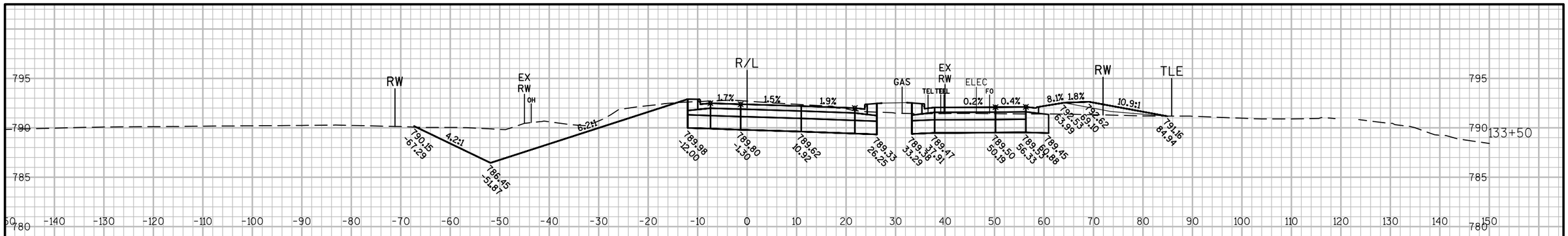
9

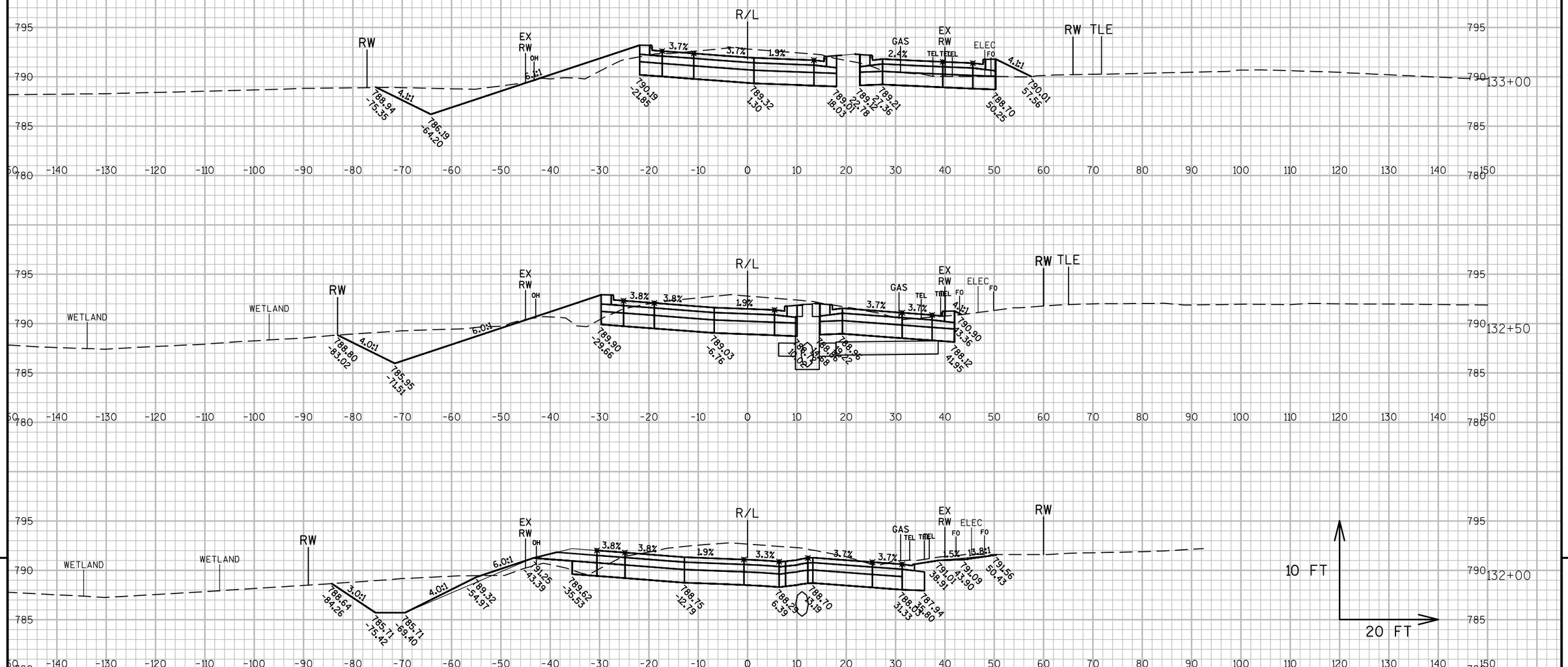
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 516	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (100)

PLOT DATE : 11/30/2016 11:03 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



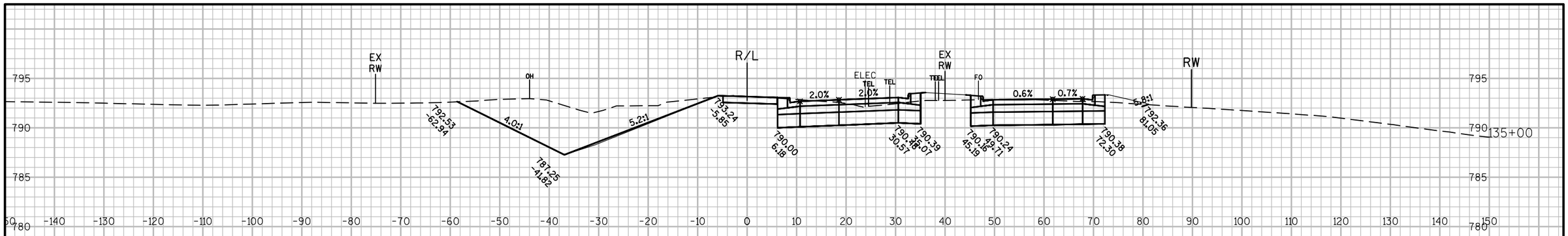


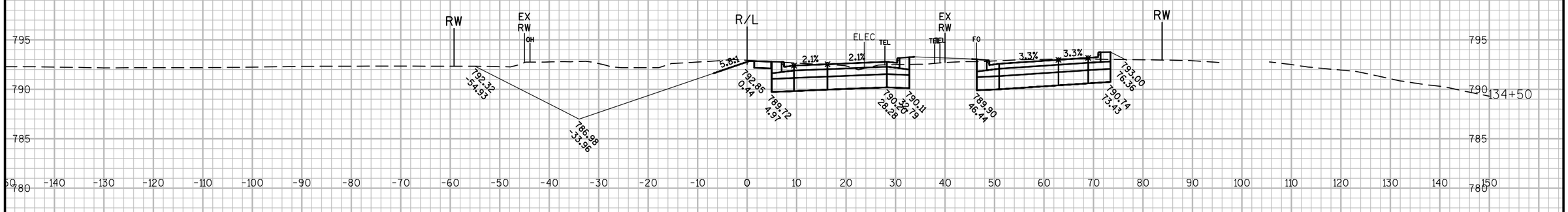
9

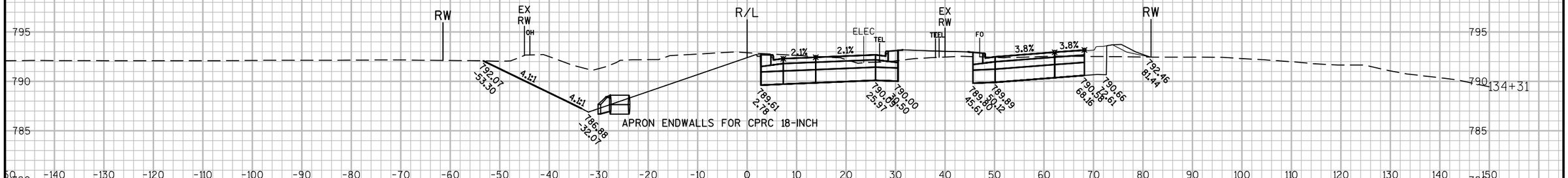
9

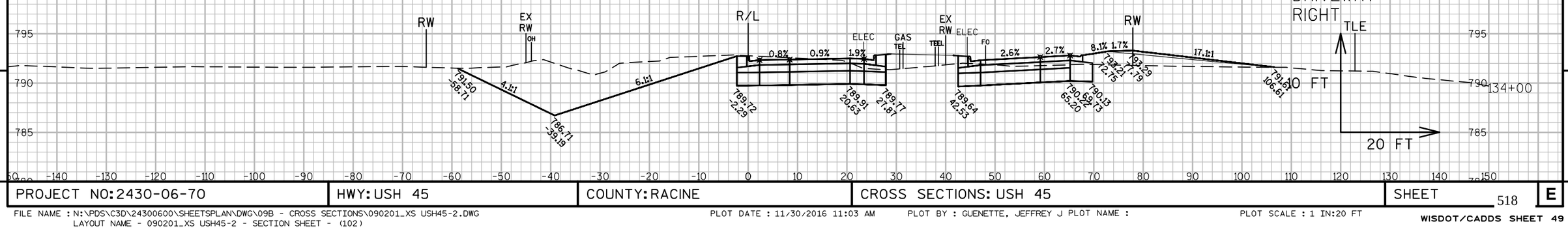
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 517	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (101)
PLOT DATE : 11/30/2016 11:03 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49







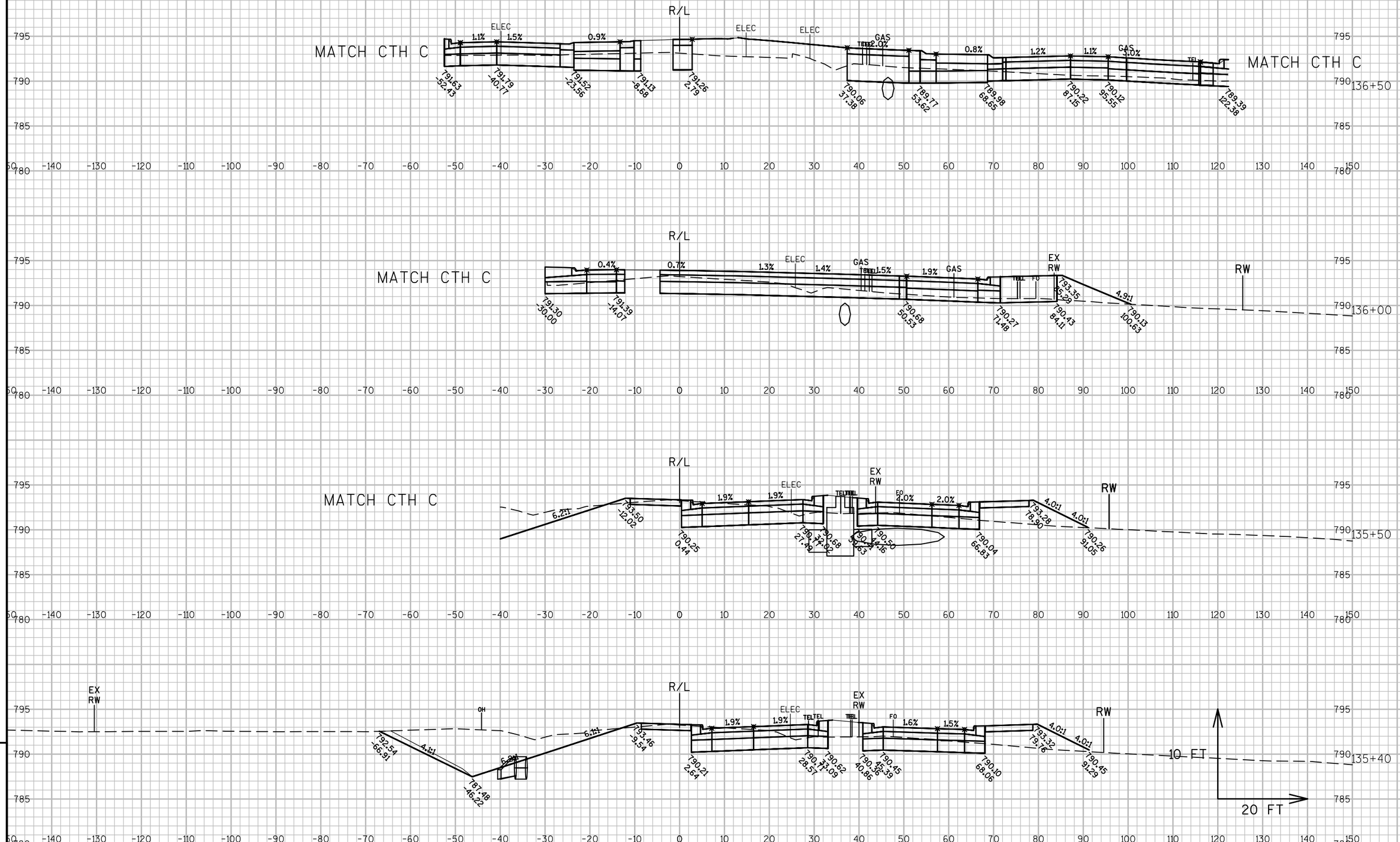


9

9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 518	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (102)
PLOT DATE : 11/30/2016 11:03 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



9

9

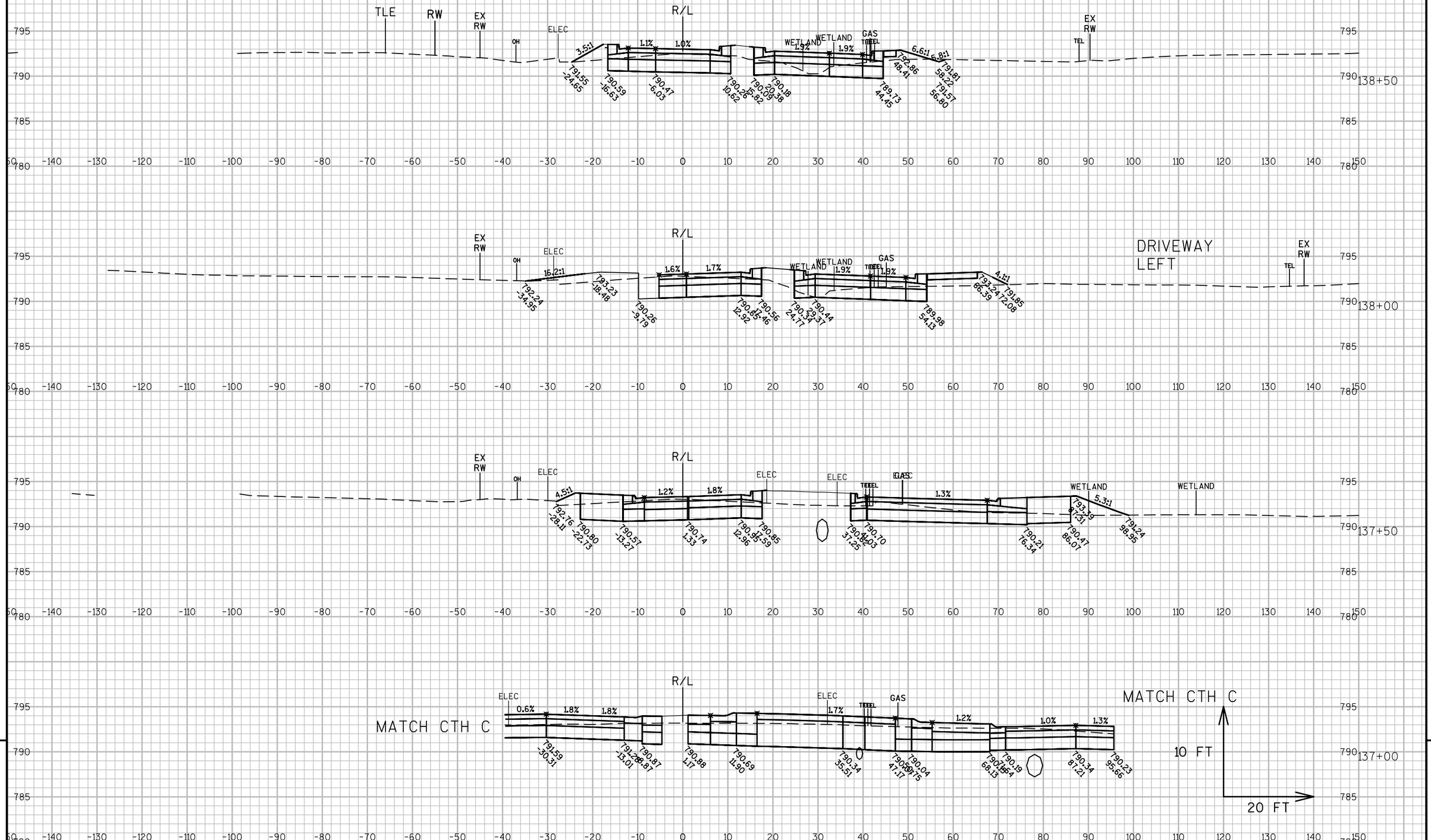
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 519	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (103)

PLOT DATE : 11/30/2016 11:04 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

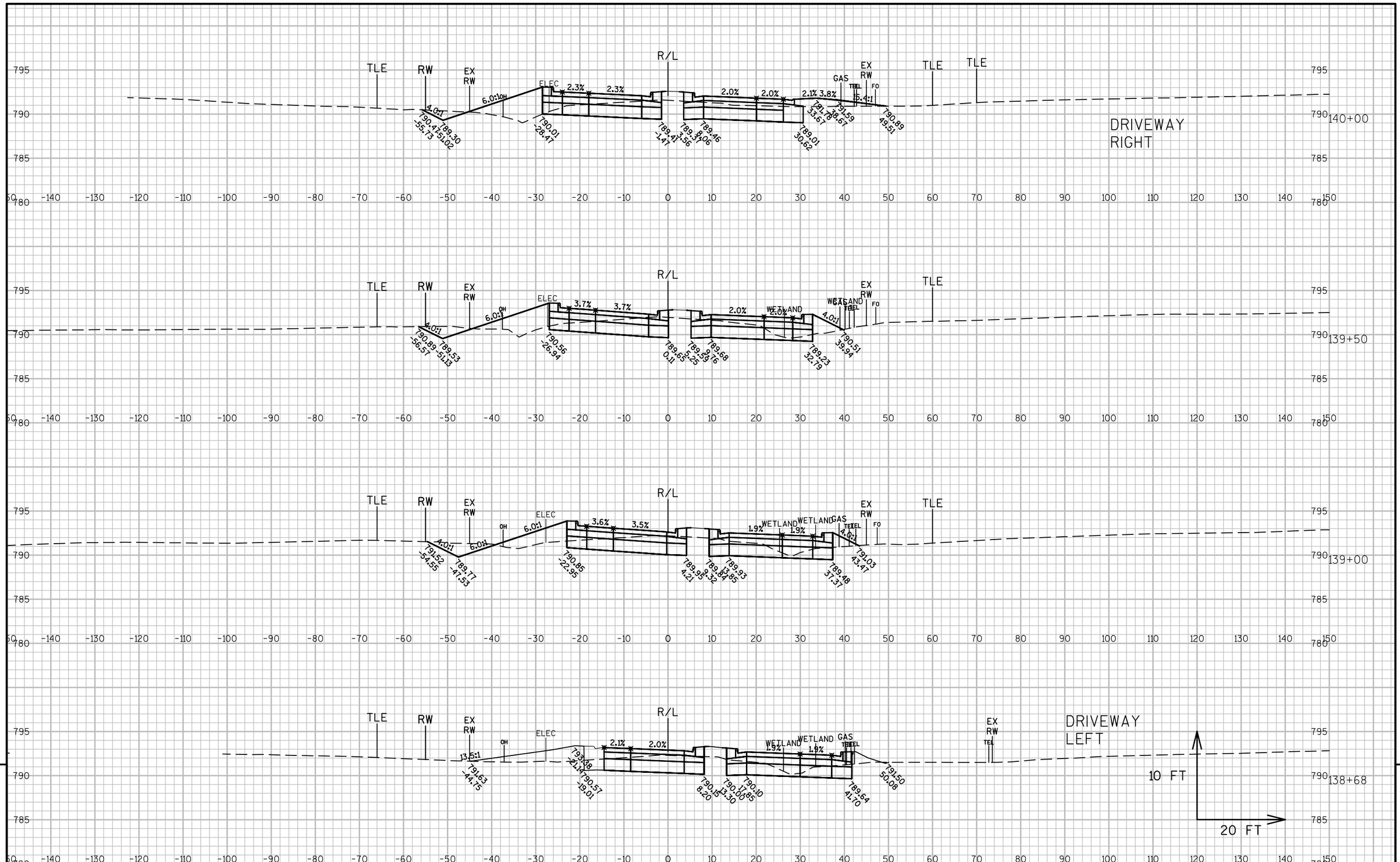
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 520	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (104)

PLOT DATE : 11/30/2016 11:04 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

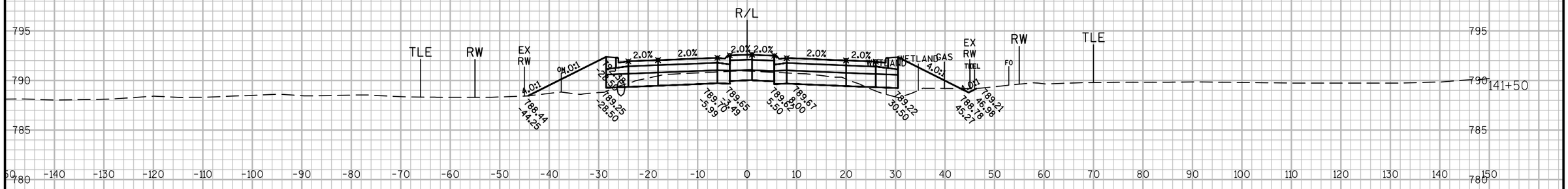


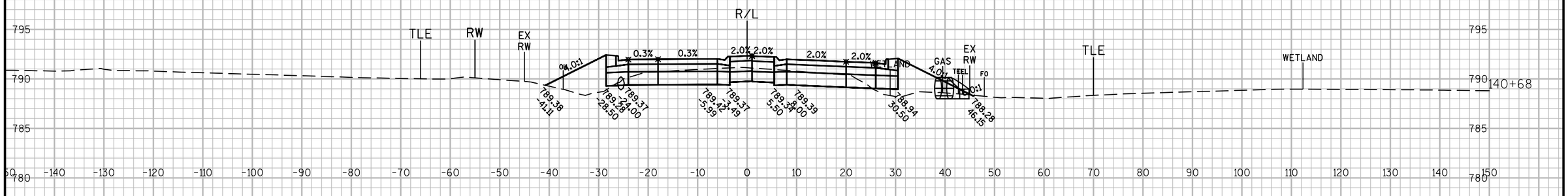
9

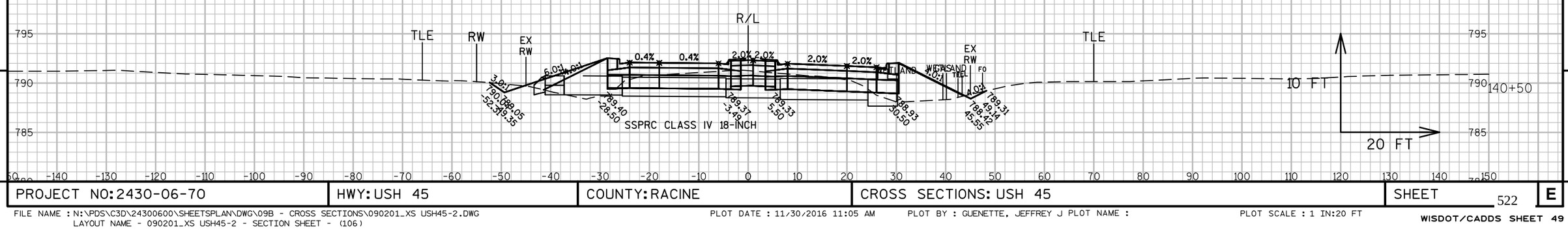
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 521	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (105)
PLOT DATE : 11/30/2016 11:04 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49







9

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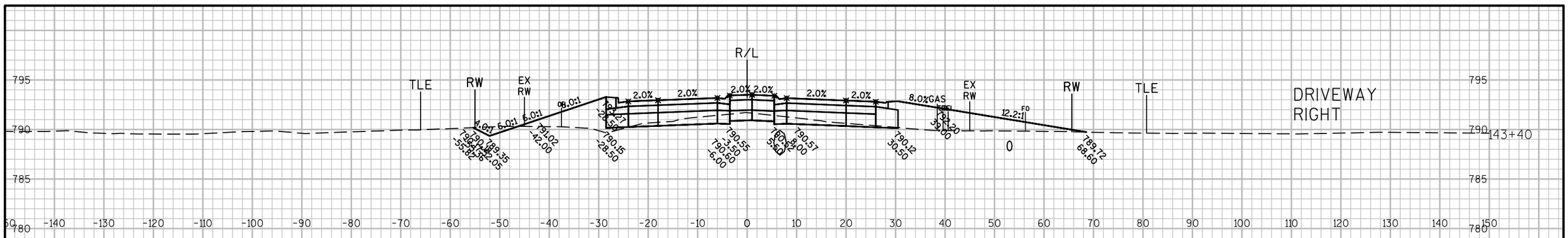
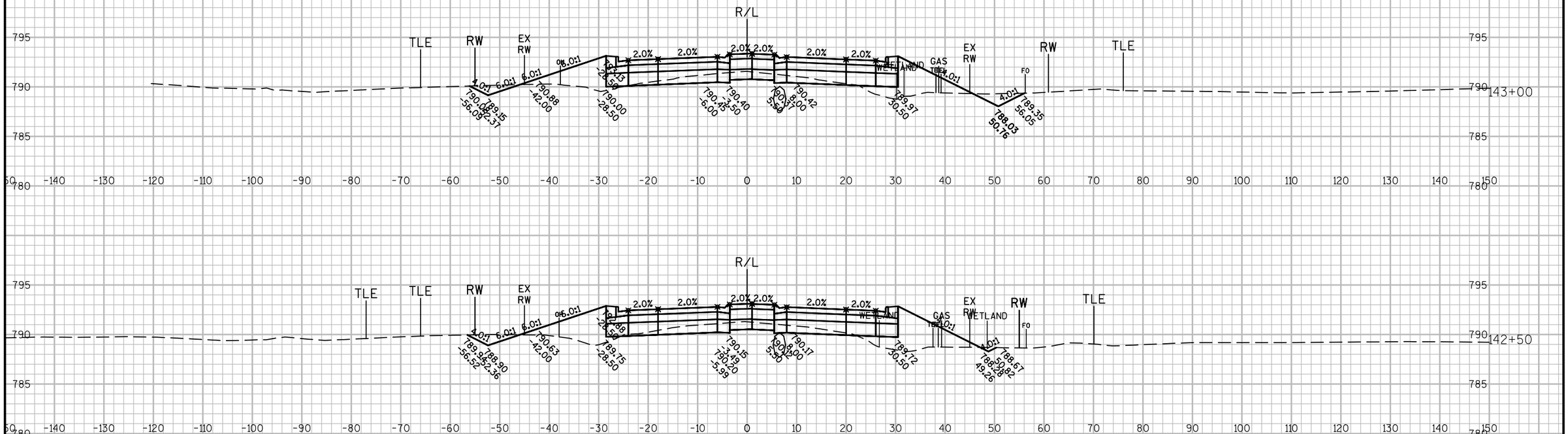
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 522	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (106)

PLOT DATE : 11/30/2016 11:05 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49





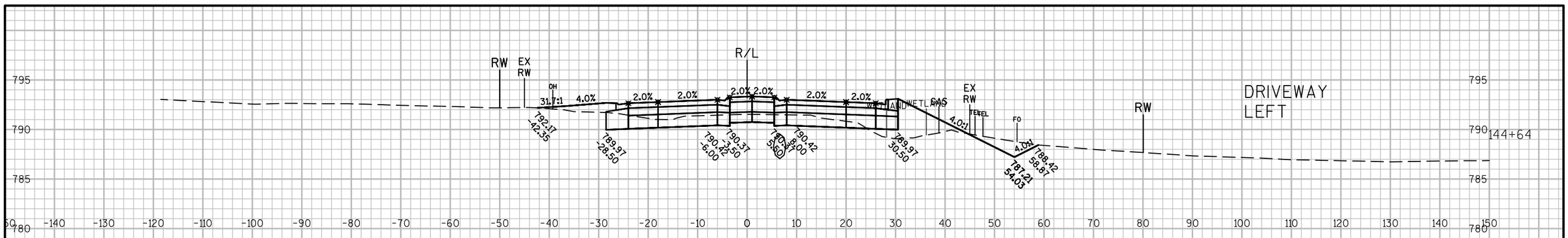
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 523	E

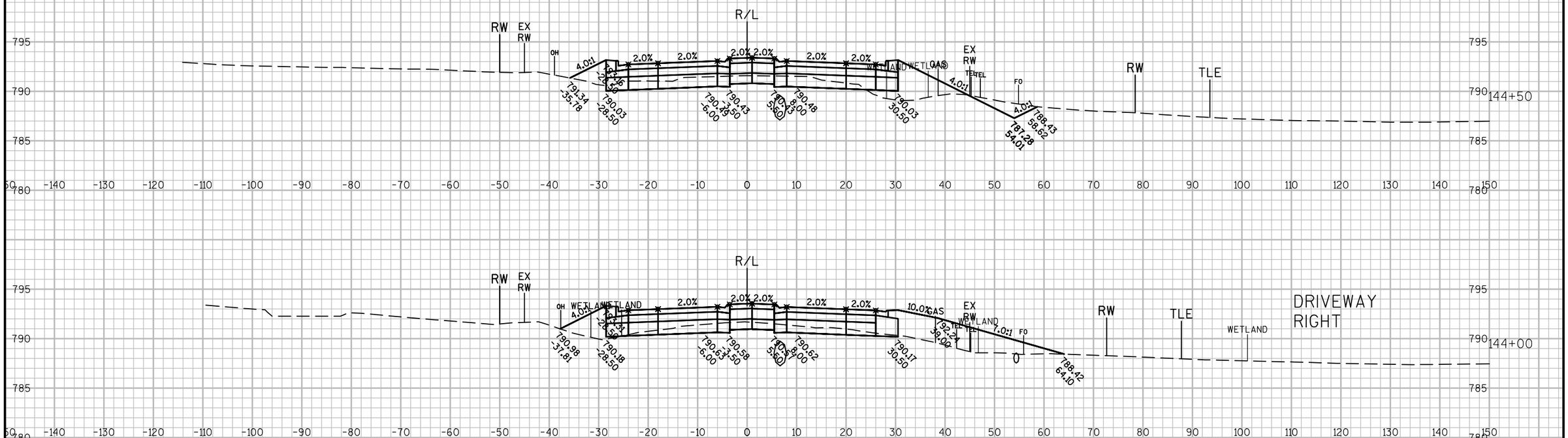
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (107)

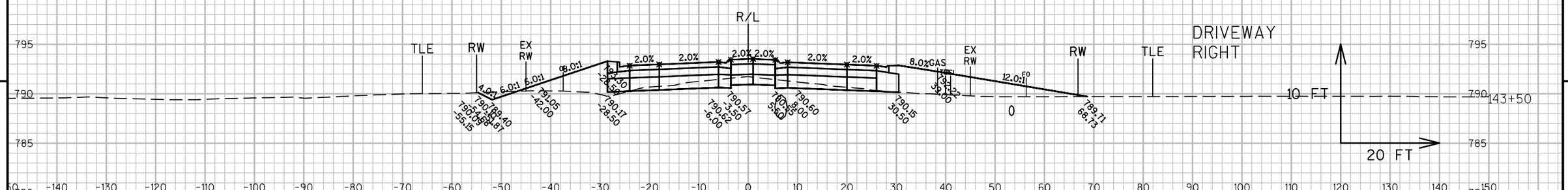
PLOT DATE : 11/30/2016 11:05 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







9

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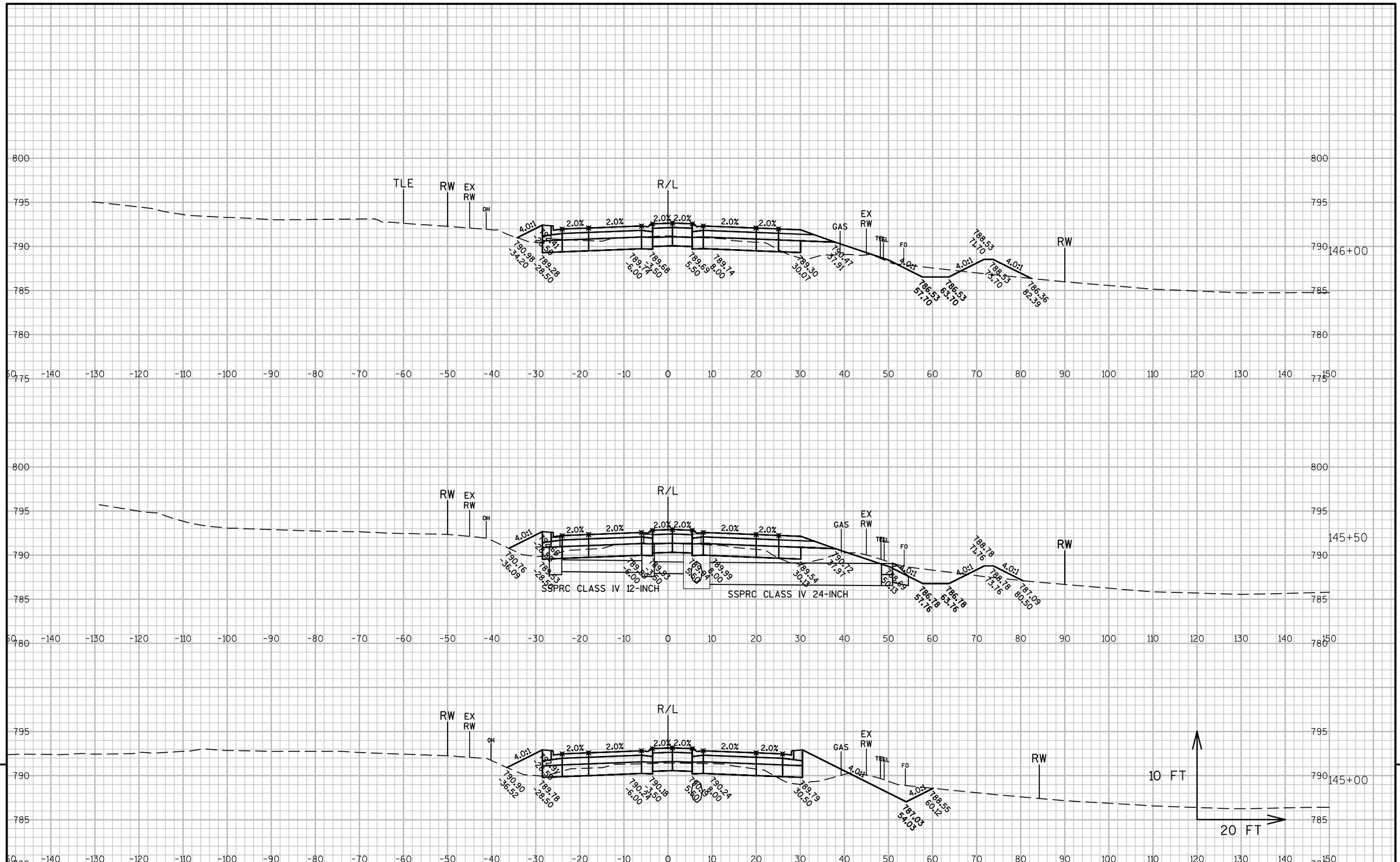
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 524	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (108)
PLOT DATE : 11/30/2016 11:05 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



9

9

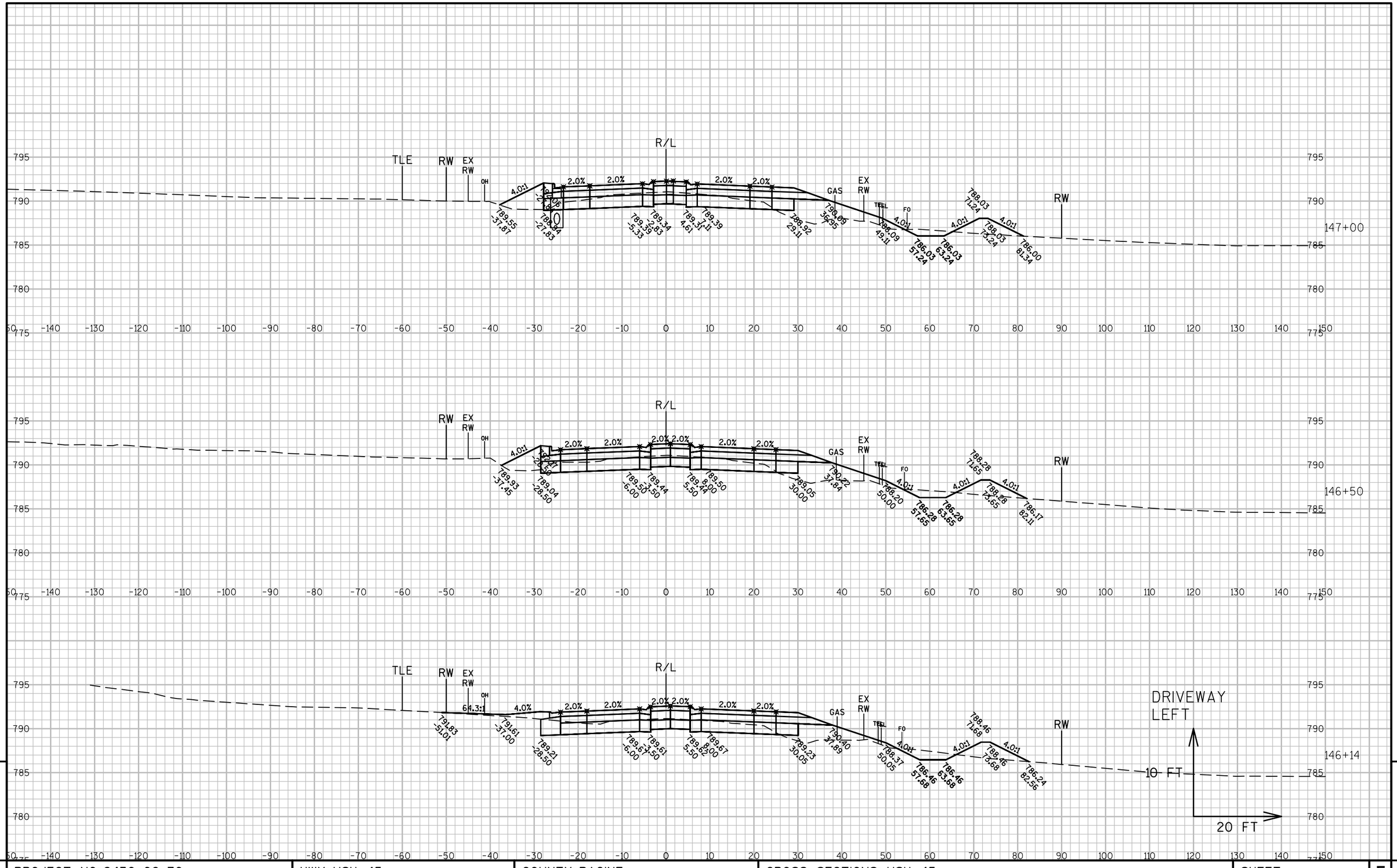
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 525	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (109)

PLOT DATE : 11/30/2016 11:06 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

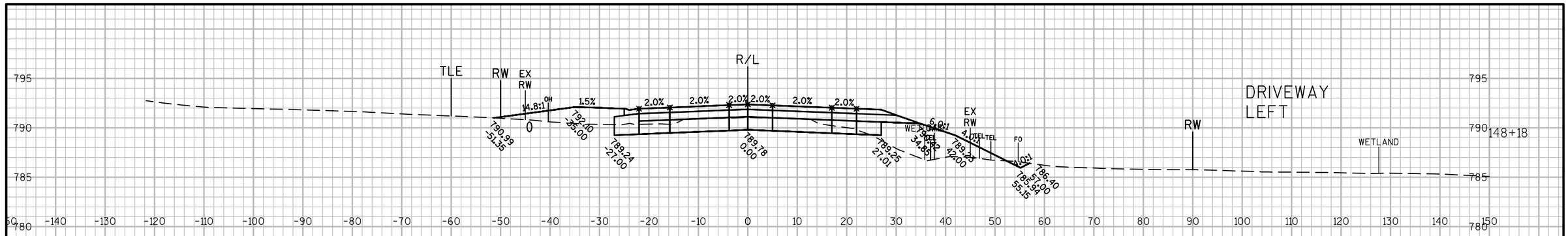


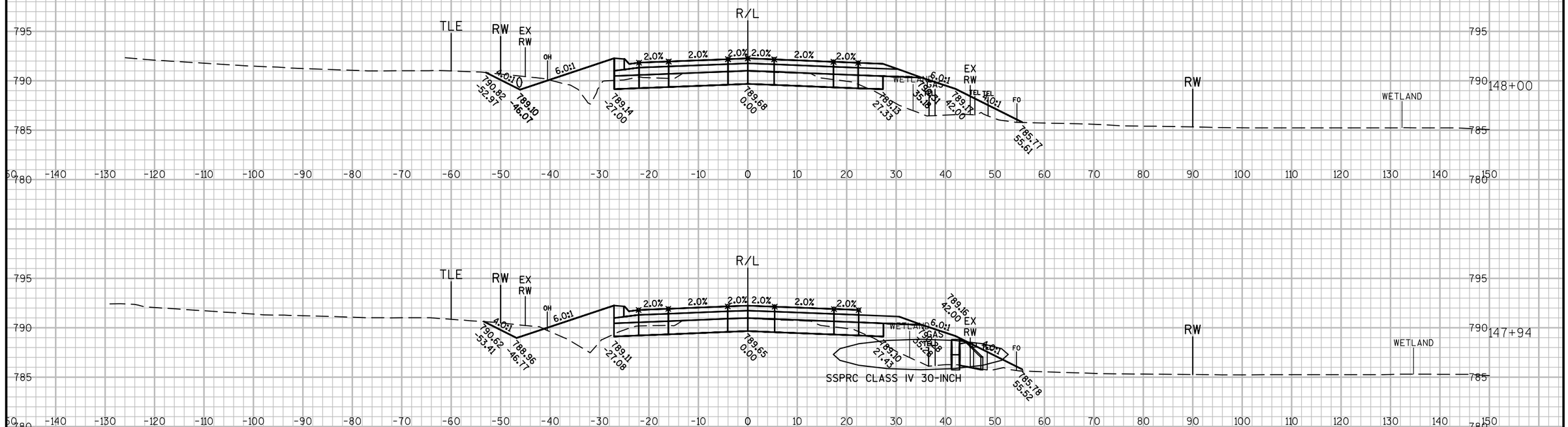
9

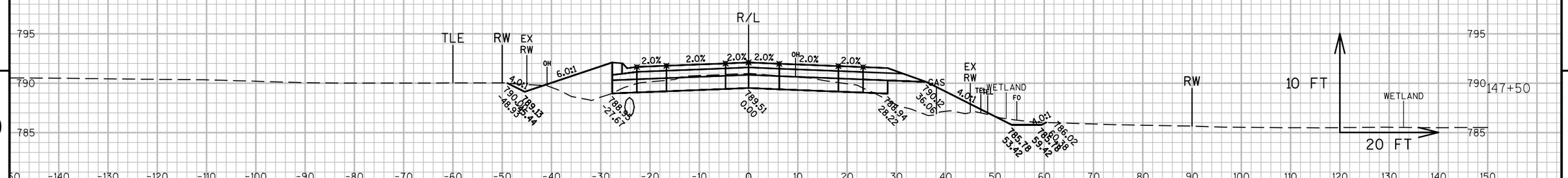
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 526	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (110)
PLOT DATE : 11/30/2016 11:06 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT





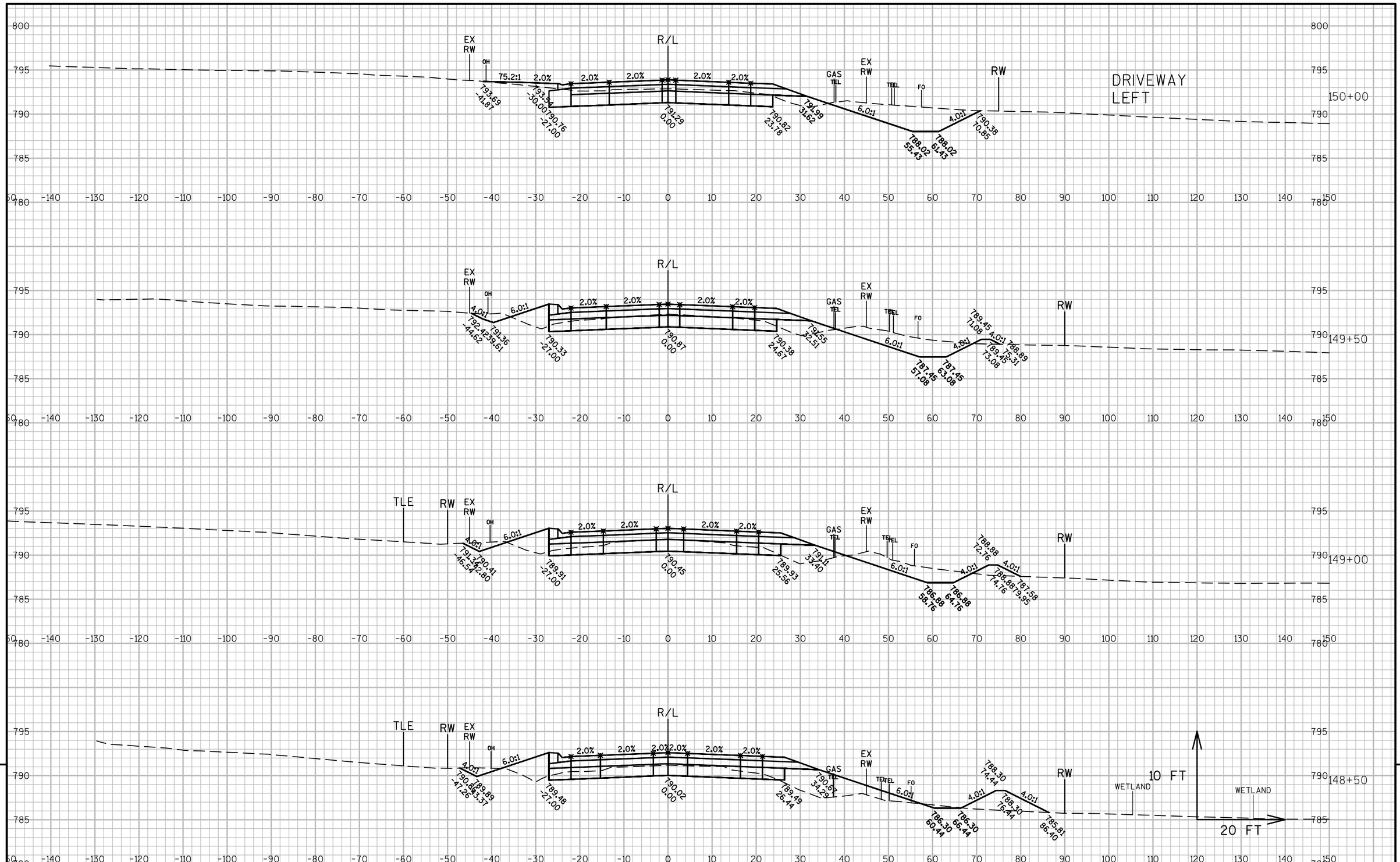


9

9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 527	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (111)
PLOT DATE : 11/30/2016 11:06 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



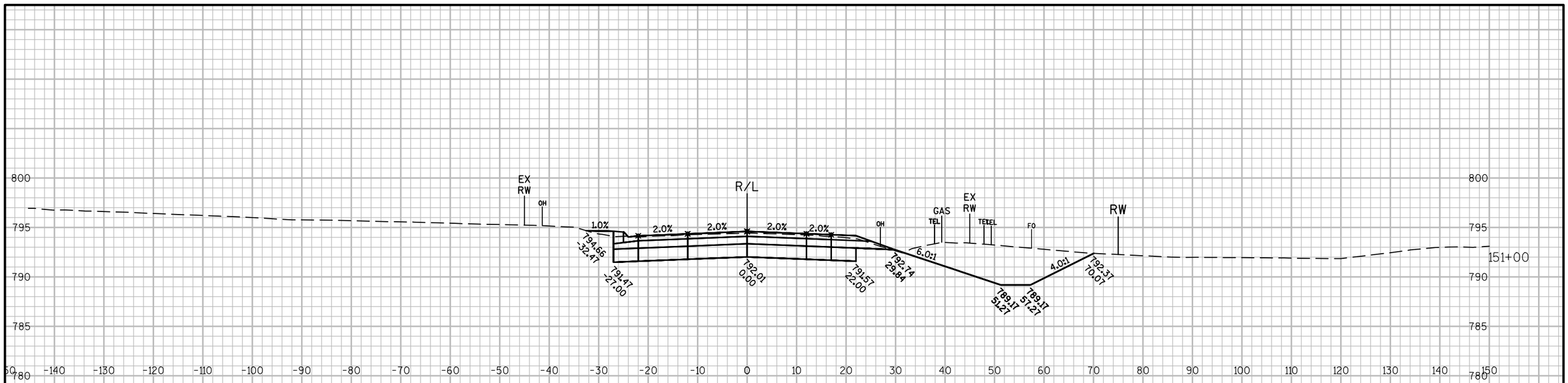
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 528 E

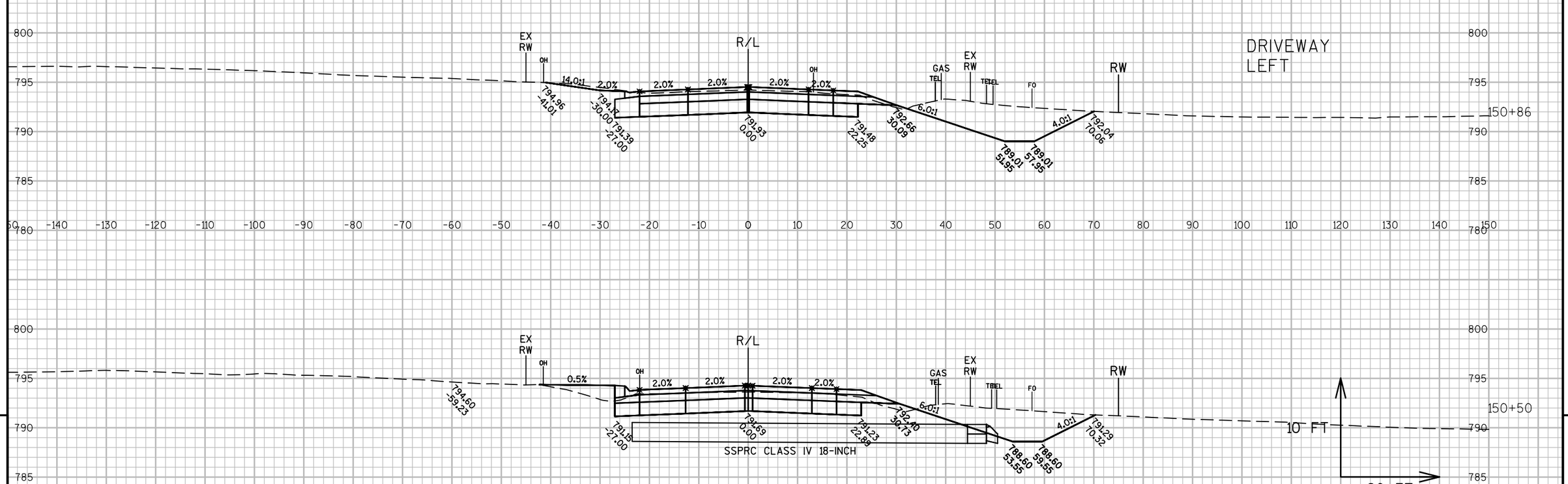
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (112)

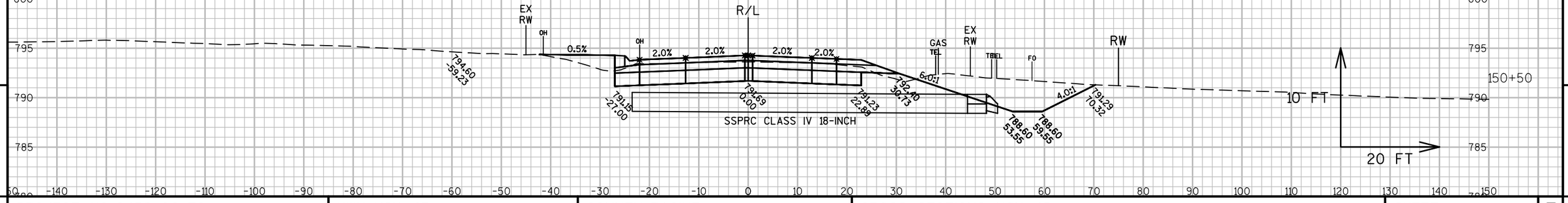
PLOT DATE : 11/30/2016 11:07 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







9

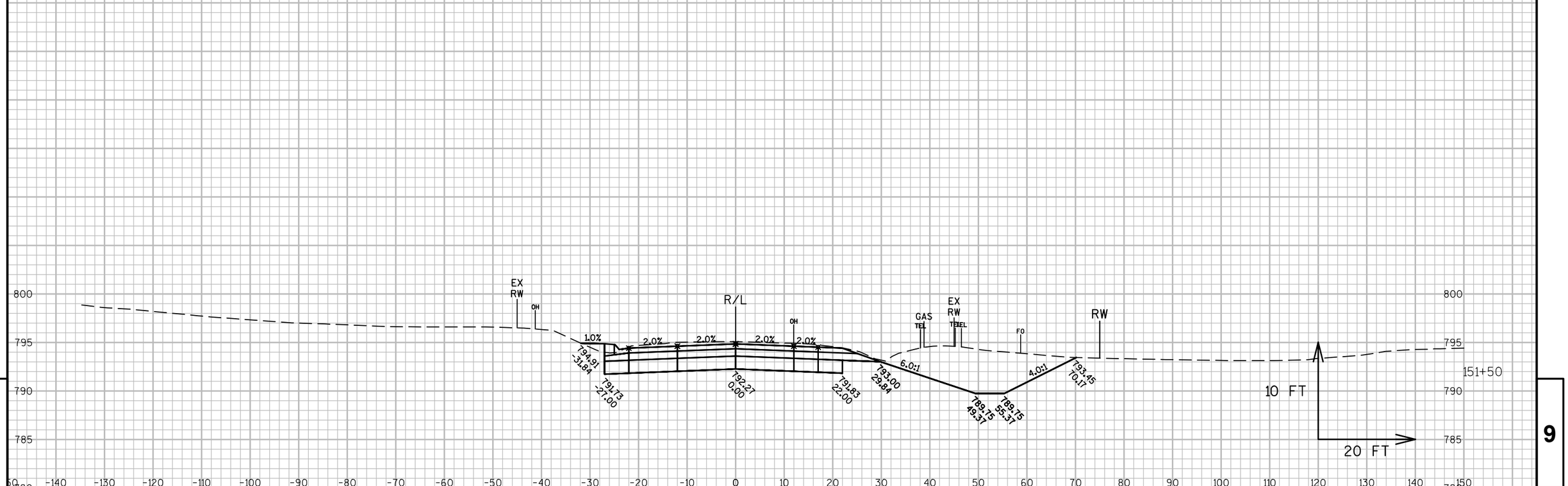
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 529	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (113)

PLOT DATE : 11/30/2016 11:07 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



9

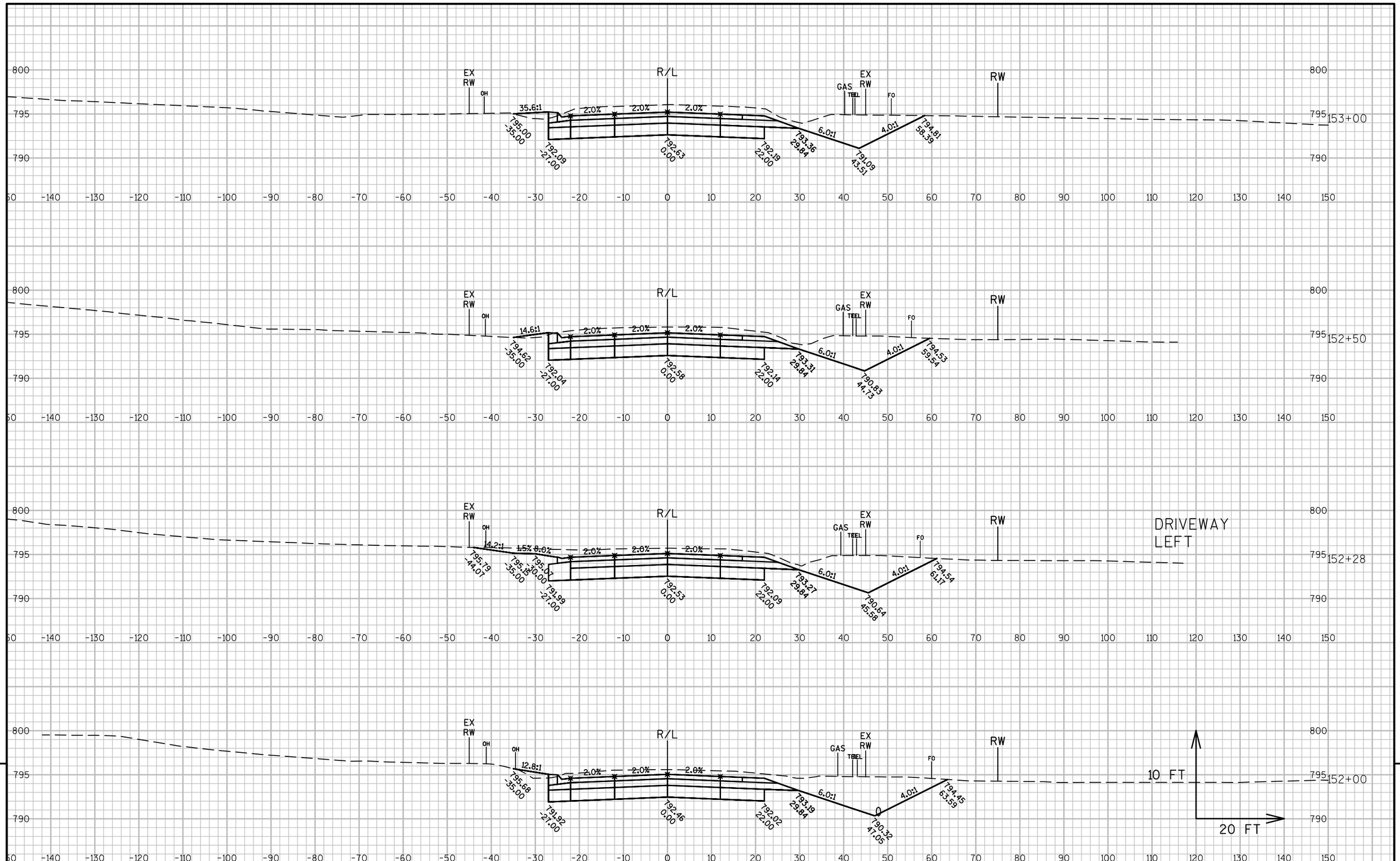
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 530	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-2.DWG
LAYOUT NAME - 090201_XS USH45-2 - SECTION SHEET - (114)

PLOT DATE : 11/30/2016 11:07 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



9

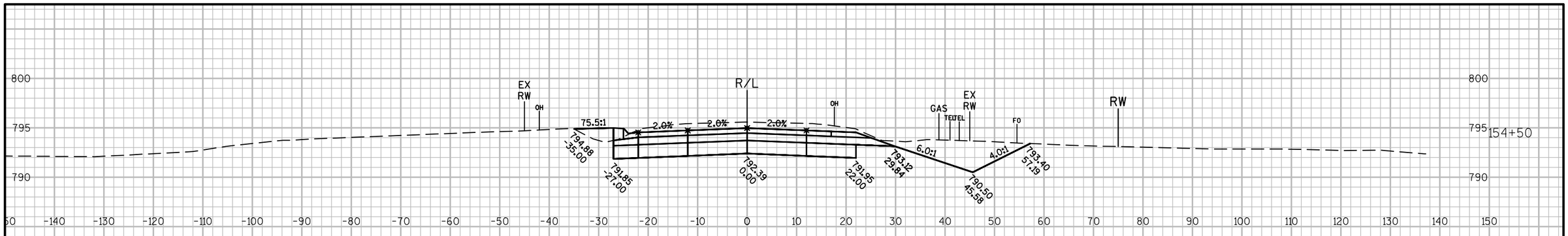
9

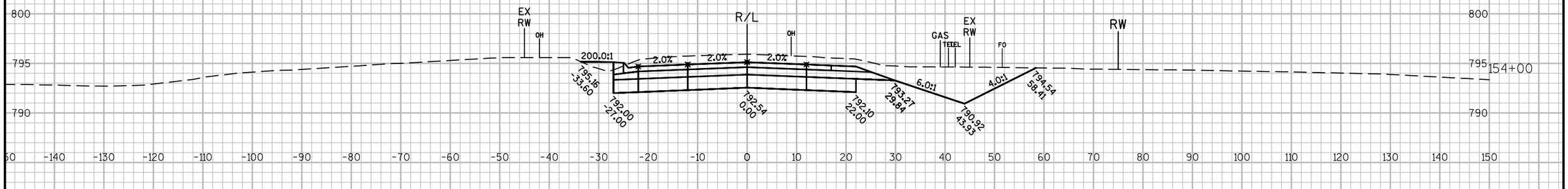
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 531	E

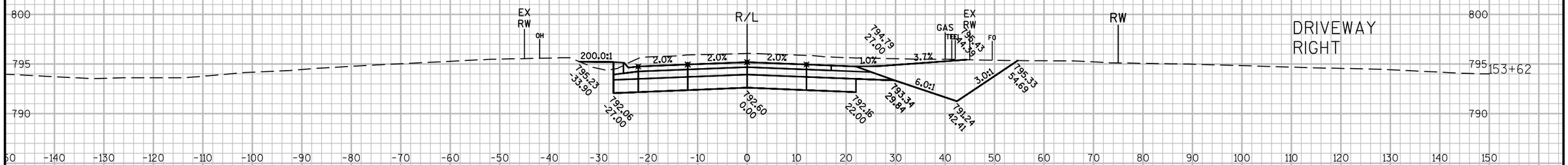
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (1)

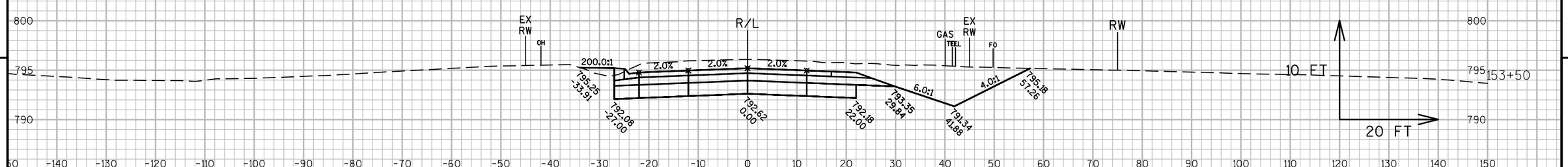
PLOT DATE : 11/30/2016 11:04 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT









9

9

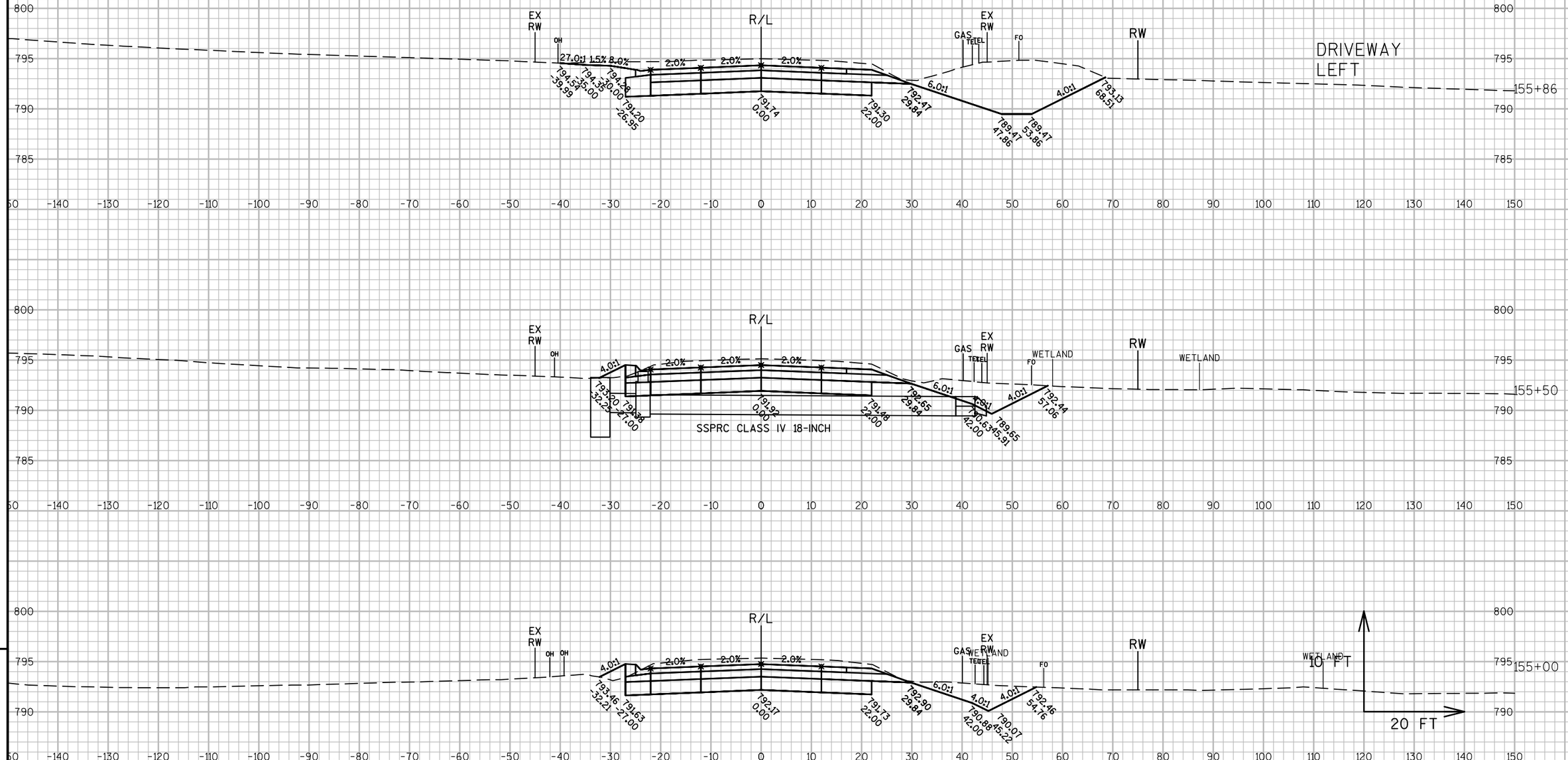
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 532	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (2)

PLOT DATE : 11/30/2016 11:04 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

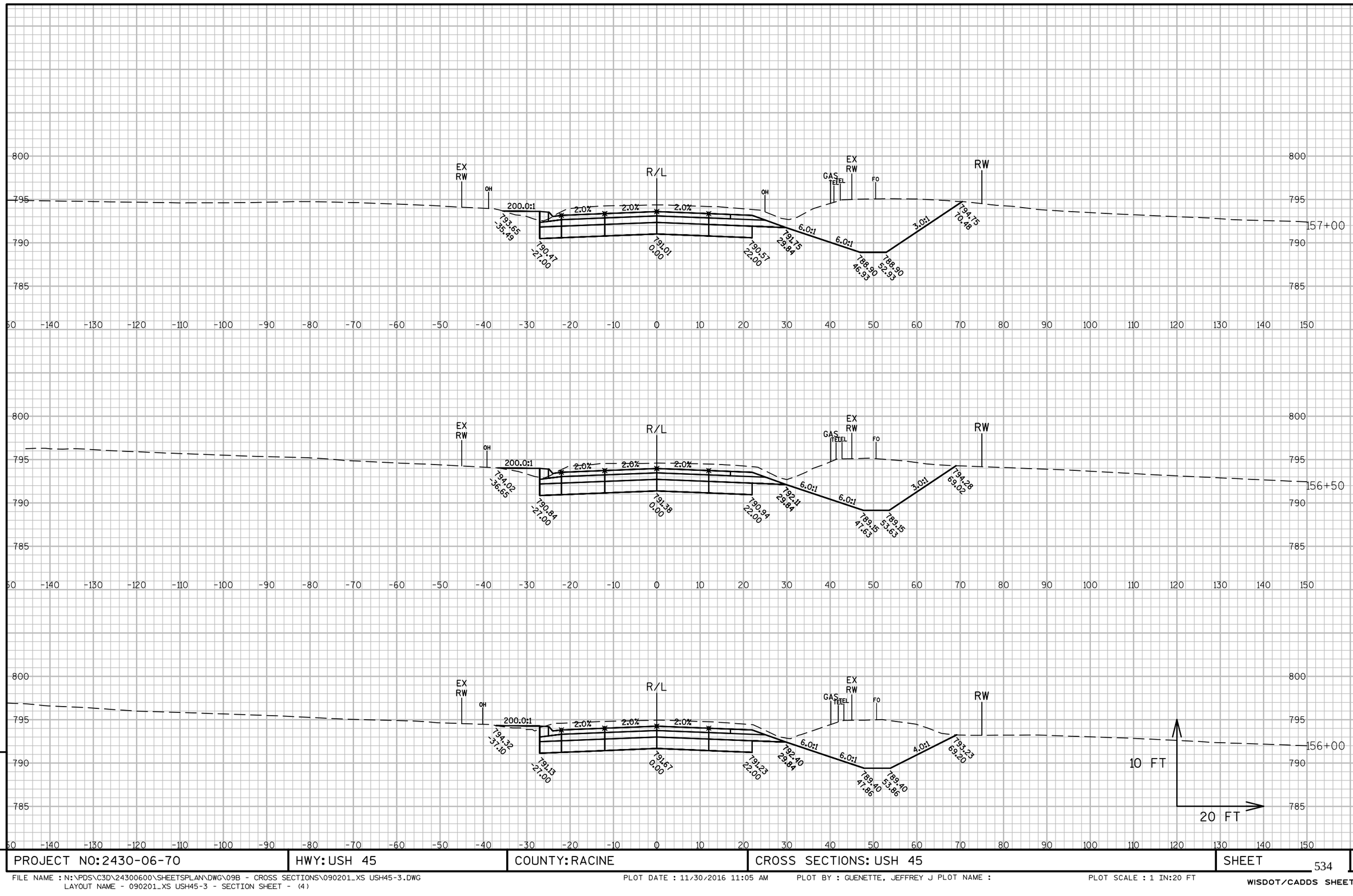


PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 533	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (3)

PLOT DATE : 11/30/2016 11:04 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



9

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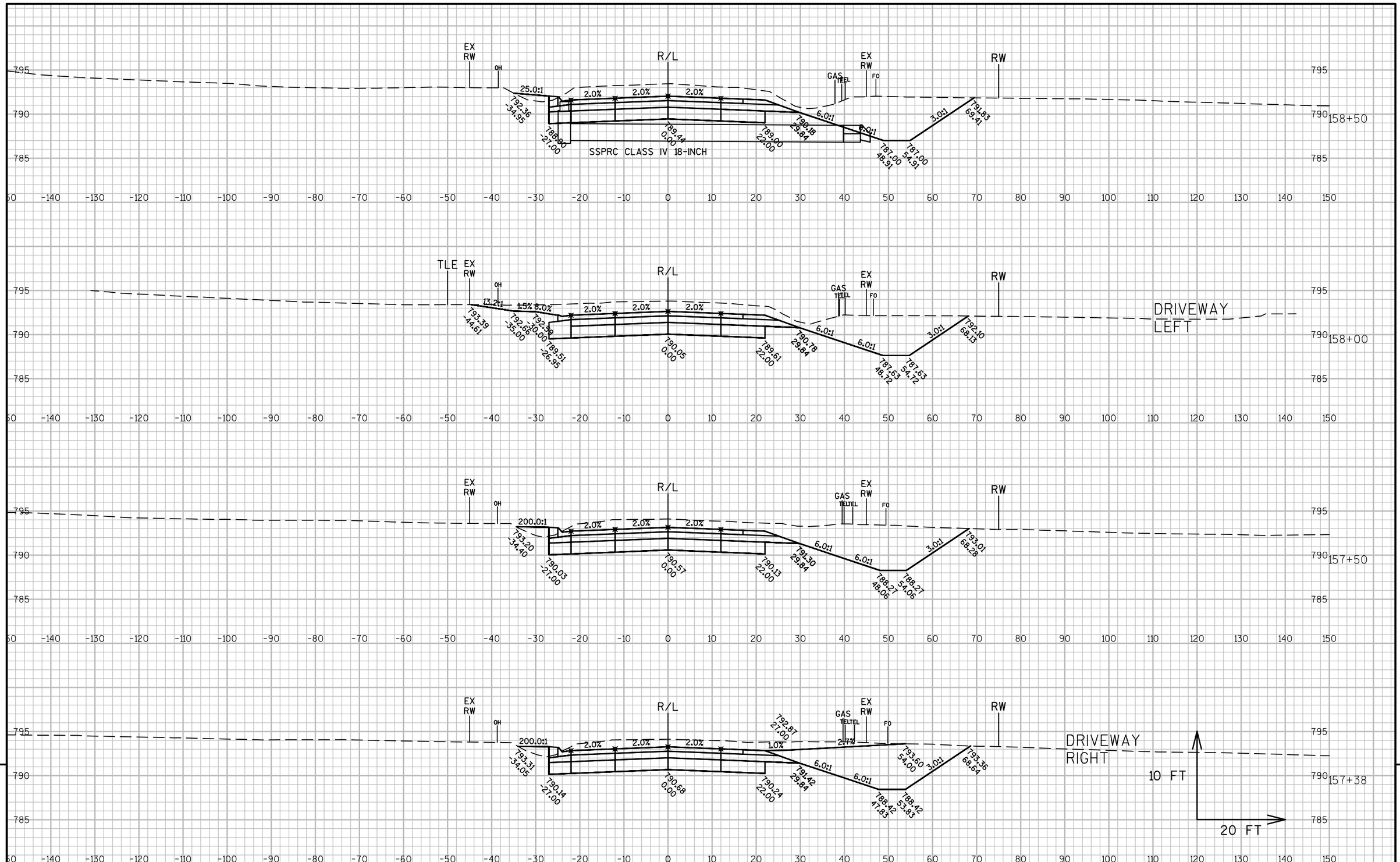
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 534	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (4)

PLOT DATE : 11/30/2016 11:05 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



9

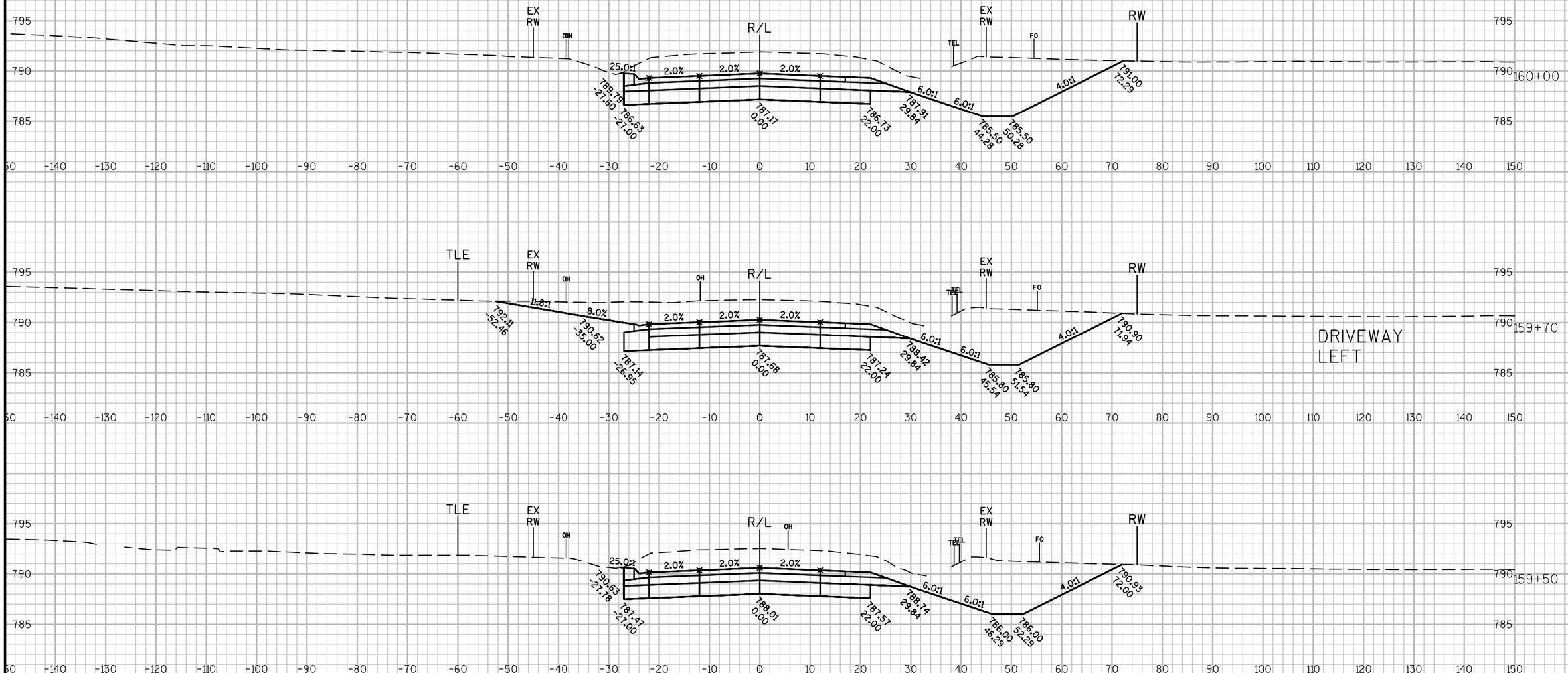
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 535	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (5)

PLOT DATE : 11/30/2016 11:05 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



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9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 536	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (6)

PLOT DATE : 11/30/2016 11:05 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

9

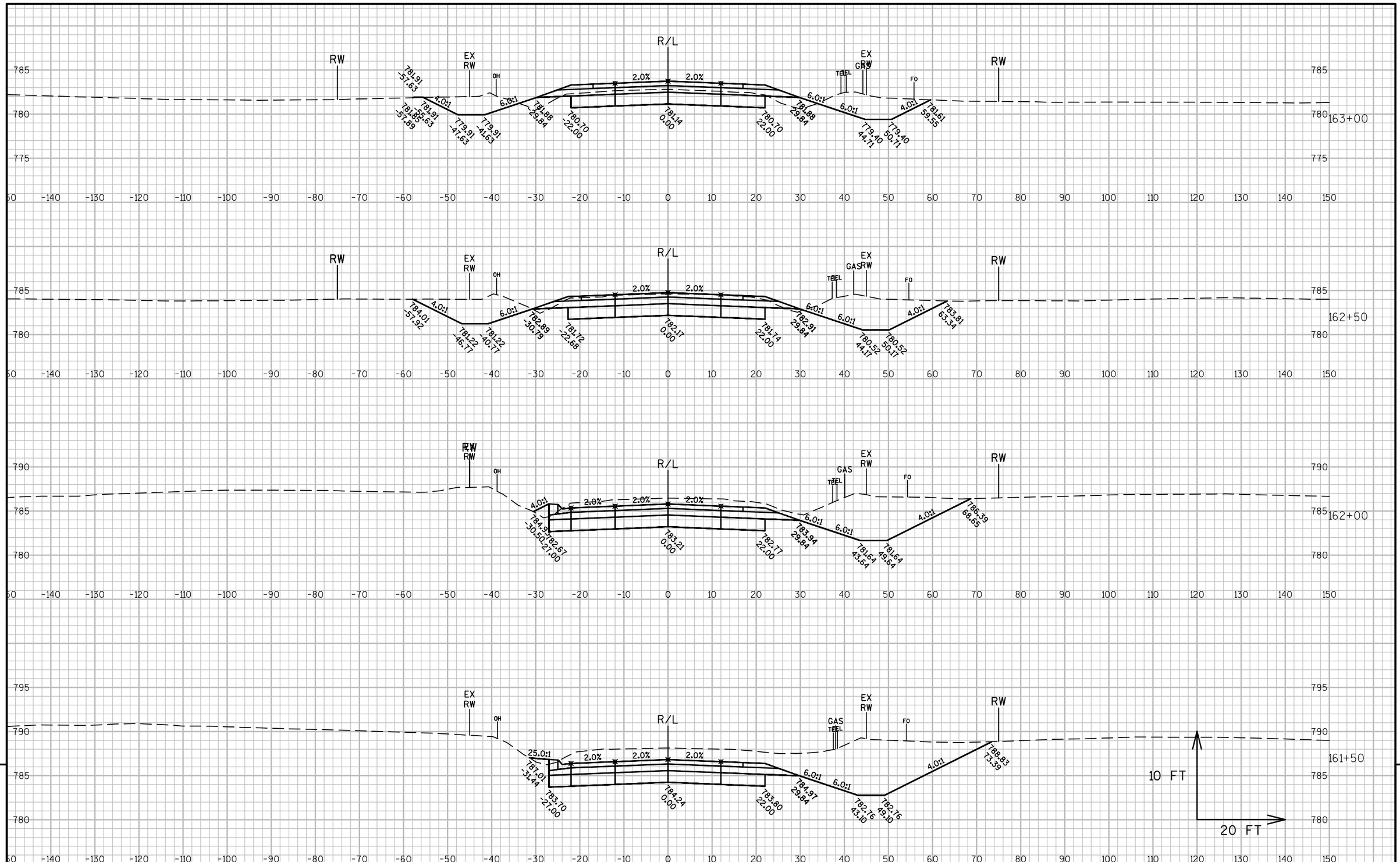
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 537	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (7)

PLOT DATE : 11/30/2016 11:05 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



9

9

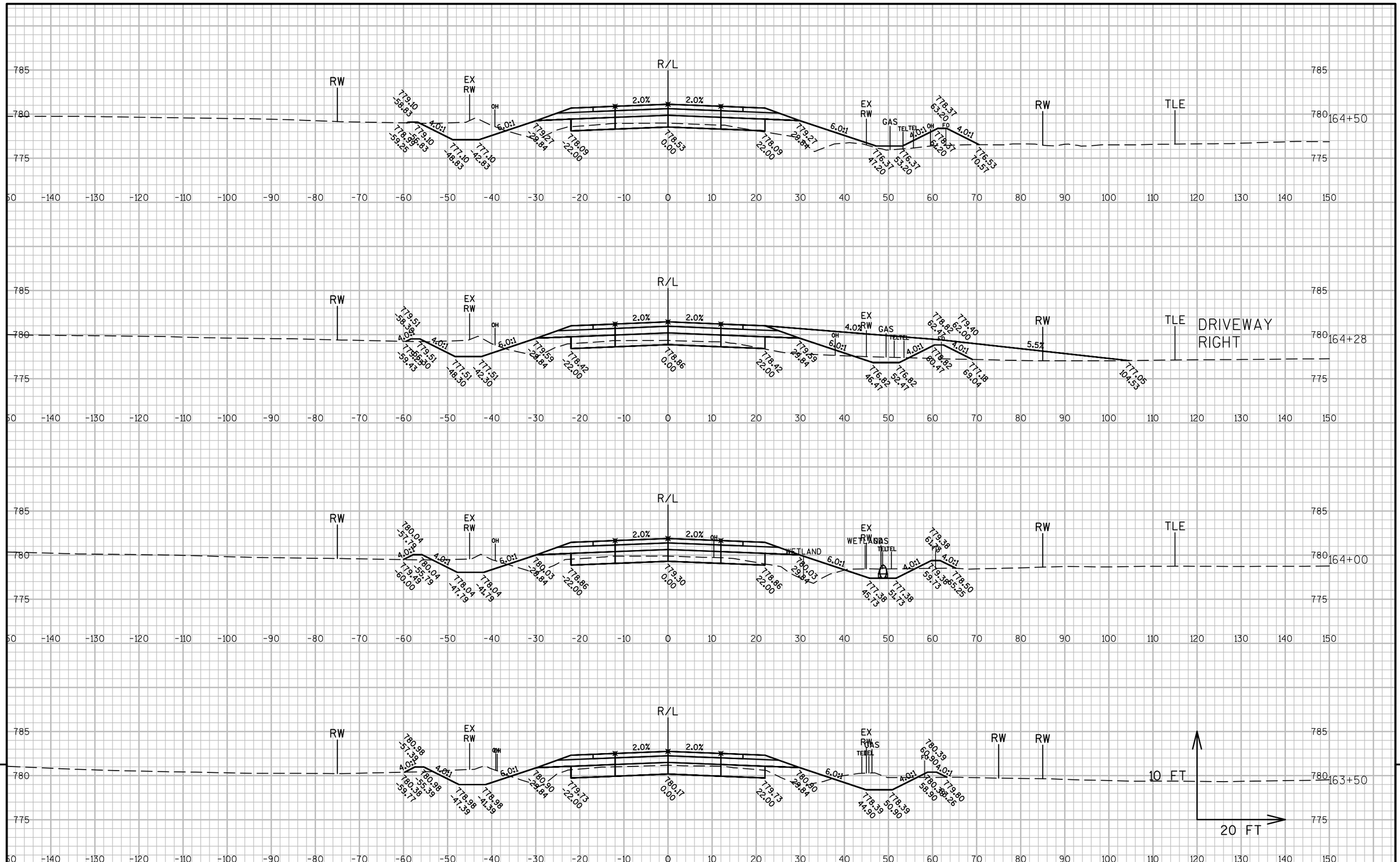
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 538	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (8)

PLOT DATE : 11/30/2016 11:05 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 539	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (9)

PLOT DATE : 11/30/2016 11:06 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

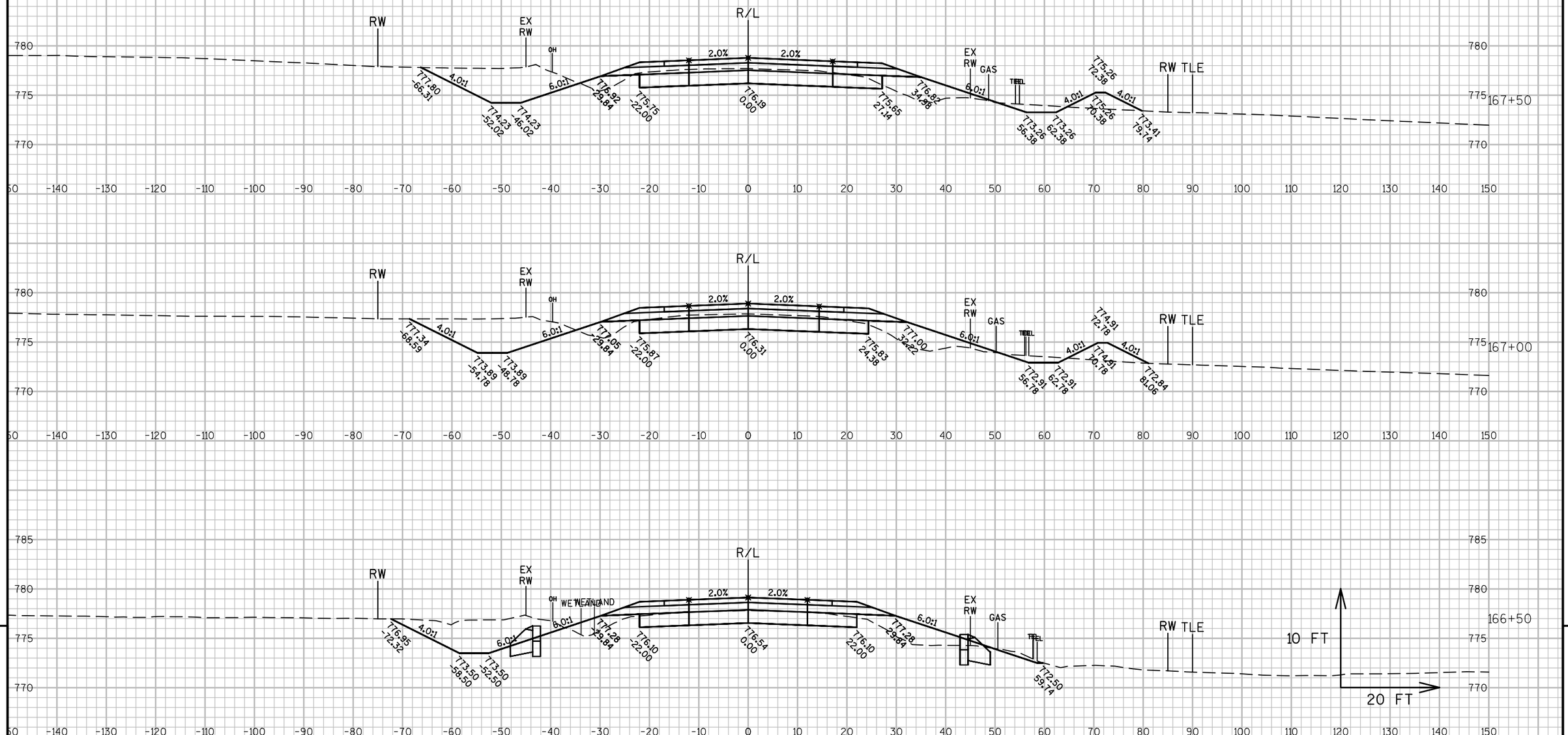
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 540	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (10)

PLOT DATE : 11/30/2016 11:06 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



9

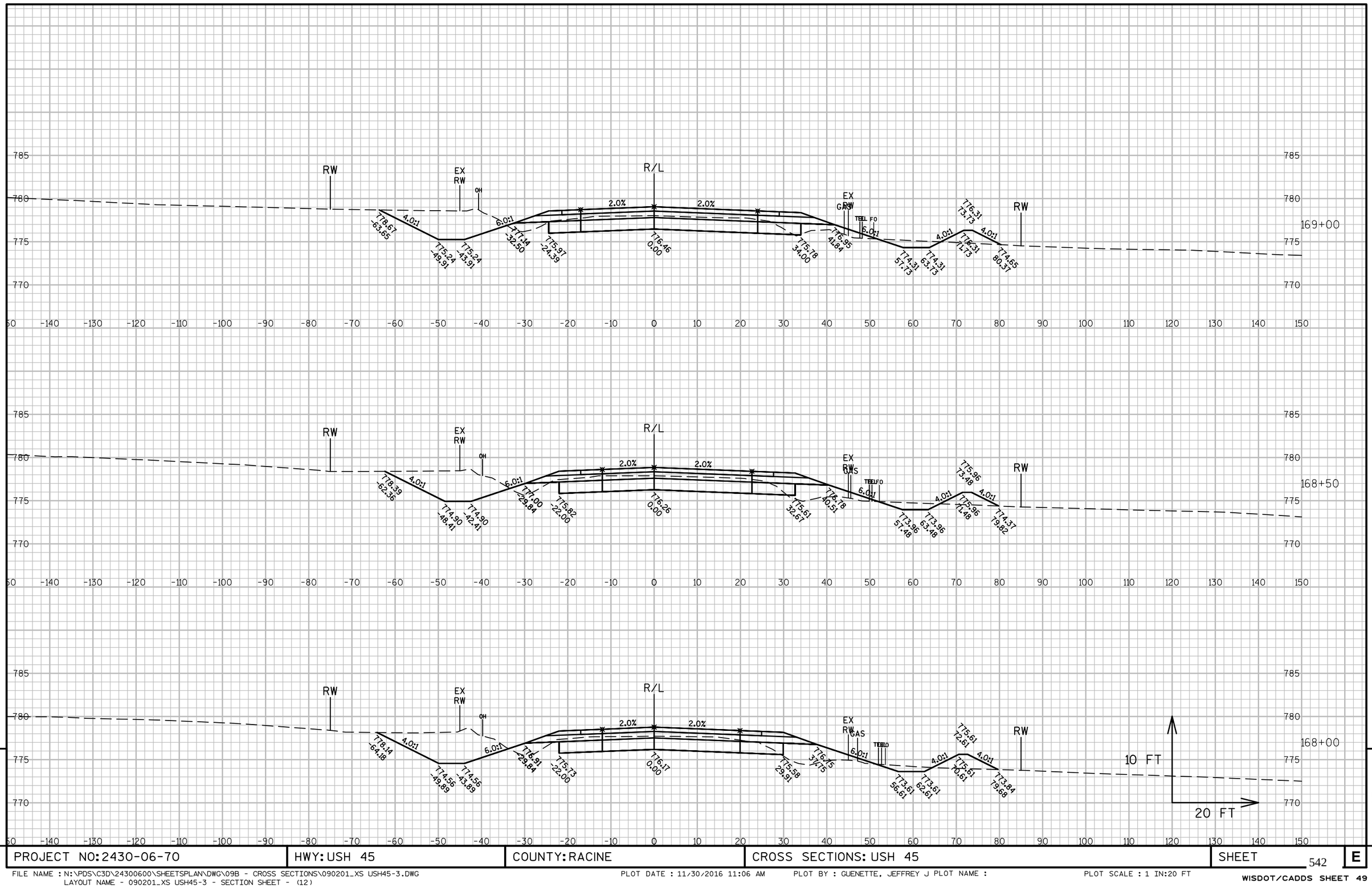
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 541	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (11)

PLOT DATE : 11/30/2016 11:06 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 542	E

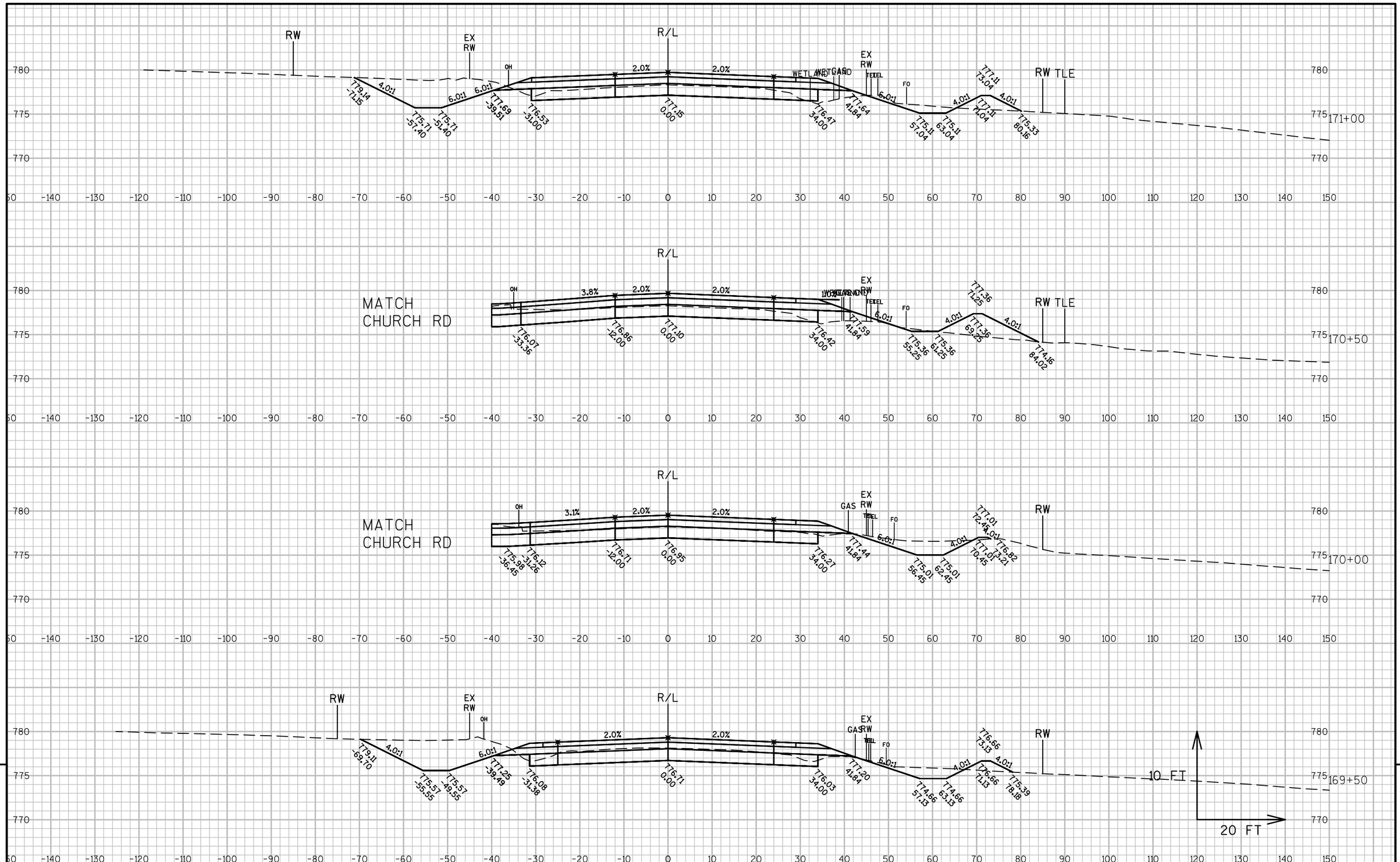
9

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (12)

PLOT DATE : 11/30/2016 11:06 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

9

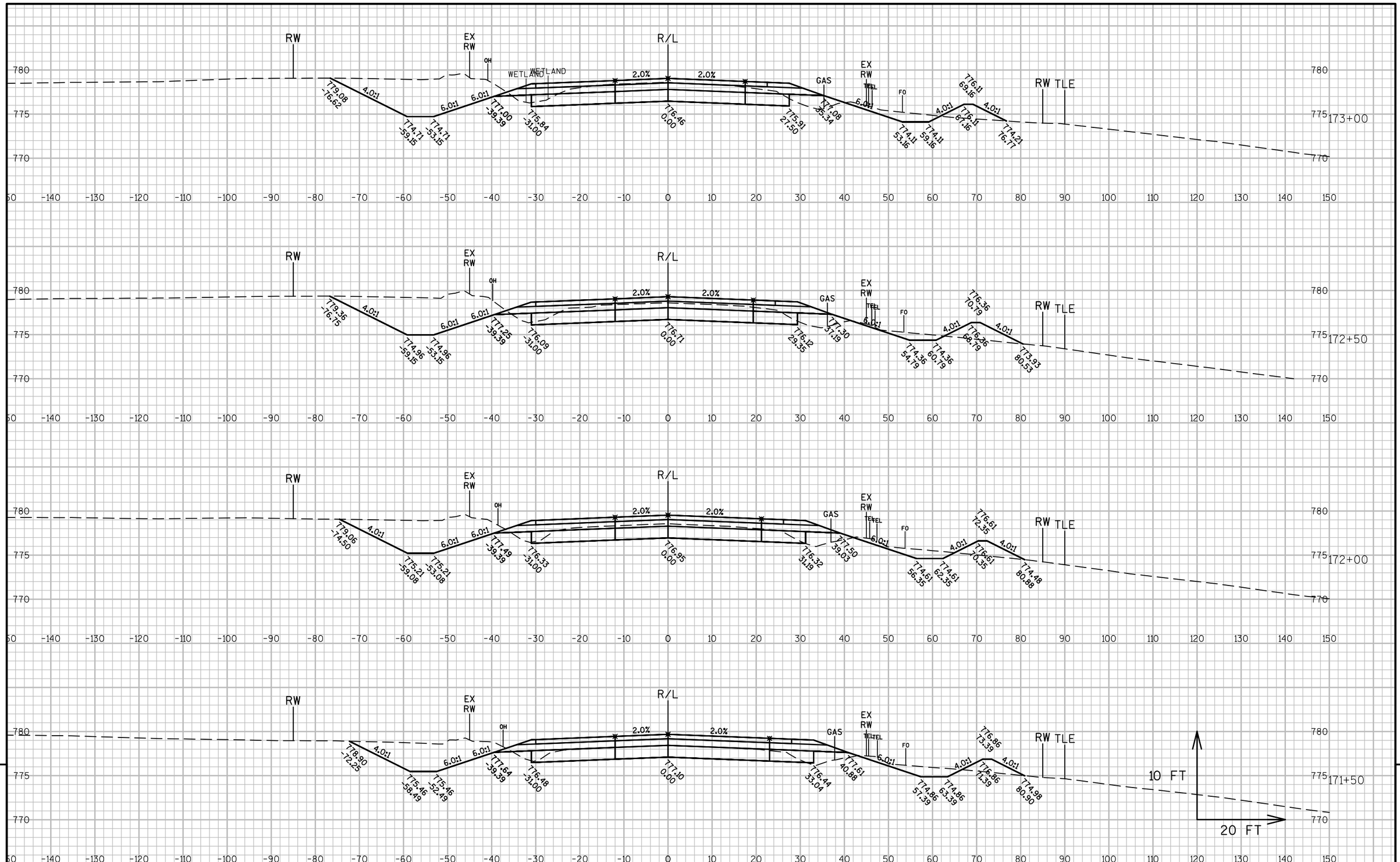
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 543	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (13)

PLOT DATE : 11/30/2016 11:06 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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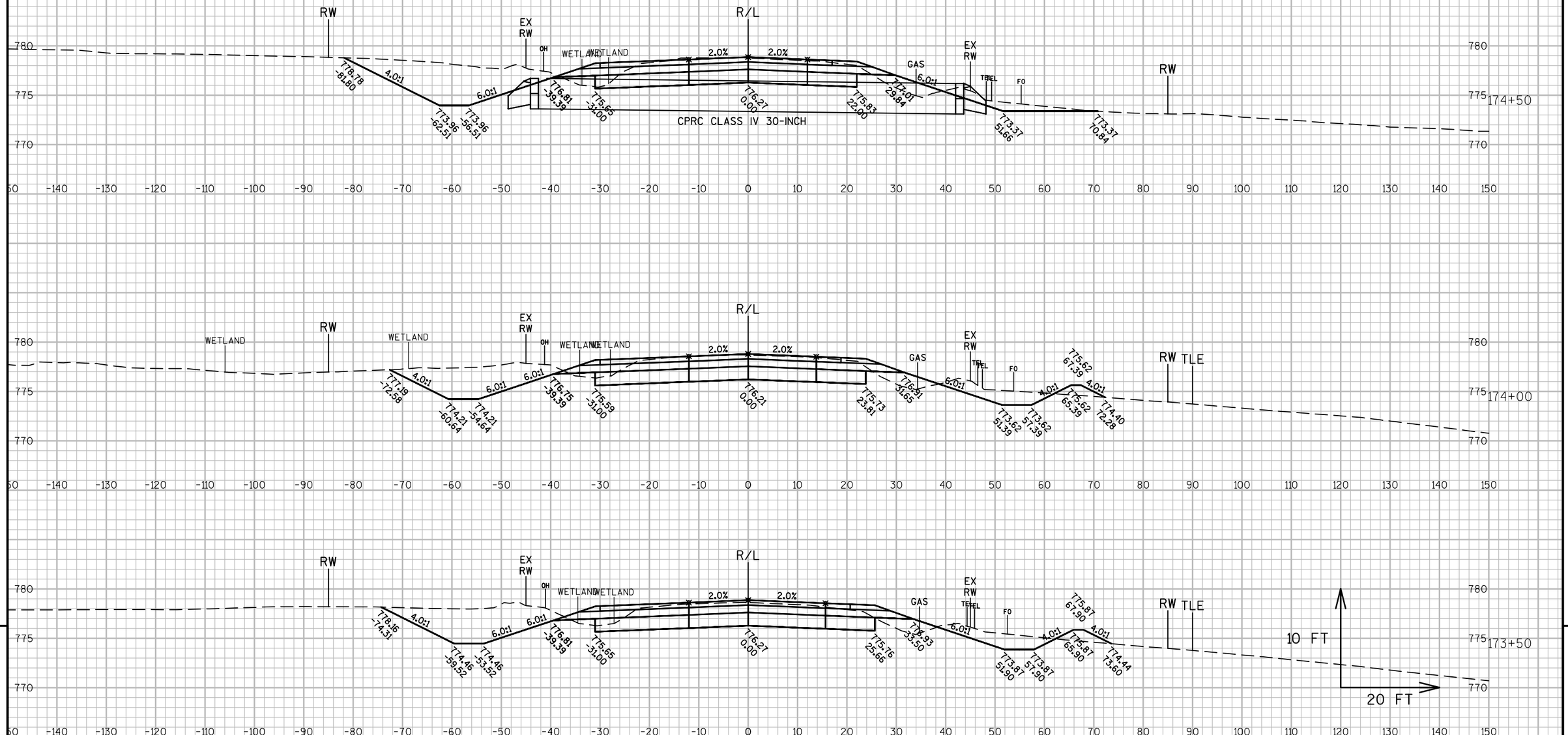
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 544 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (14)

PLOT DATE : 11/30/2016 11:07 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

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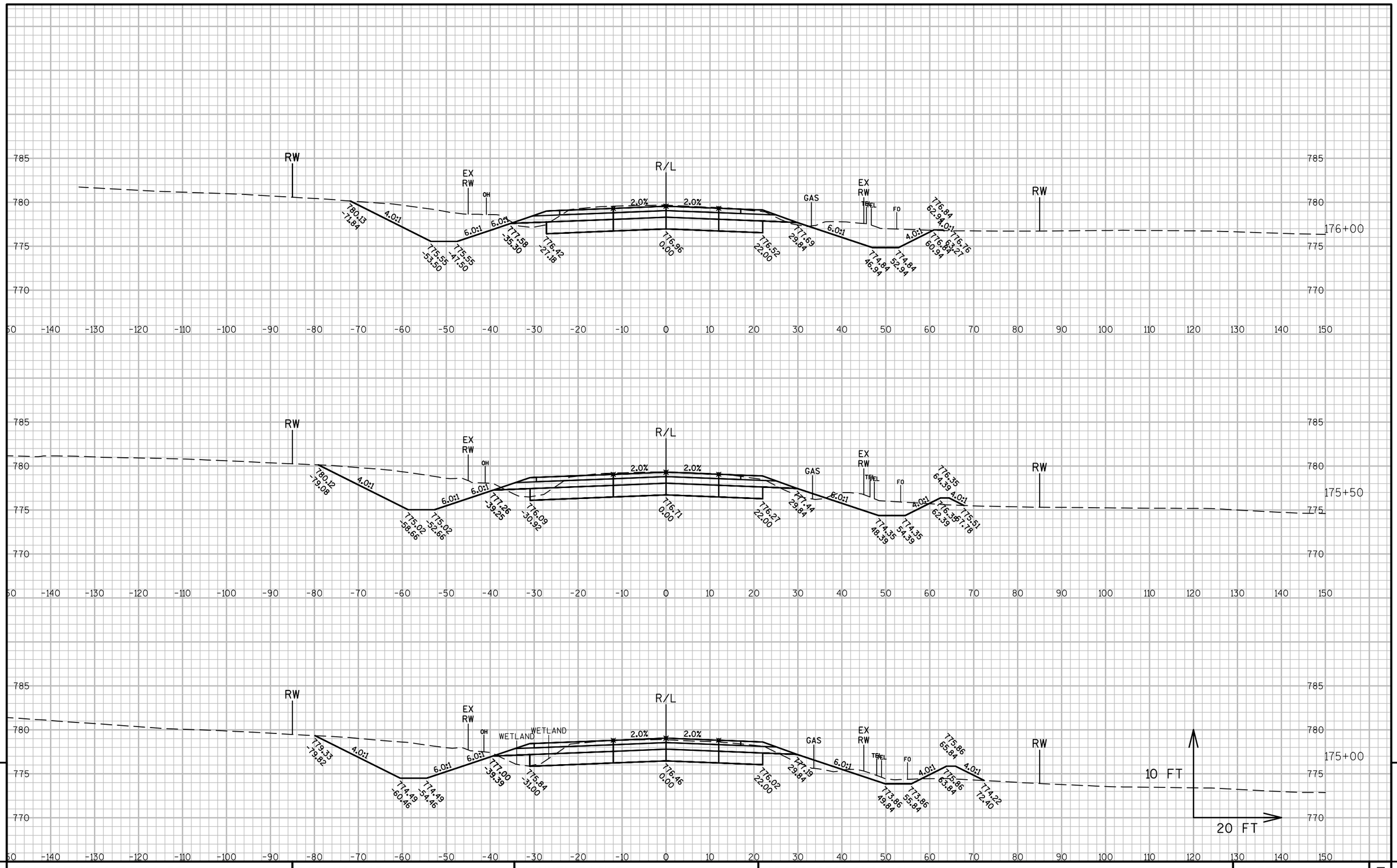
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 545	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (15)

PLOT DATE : 11/30/2016 11:07 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

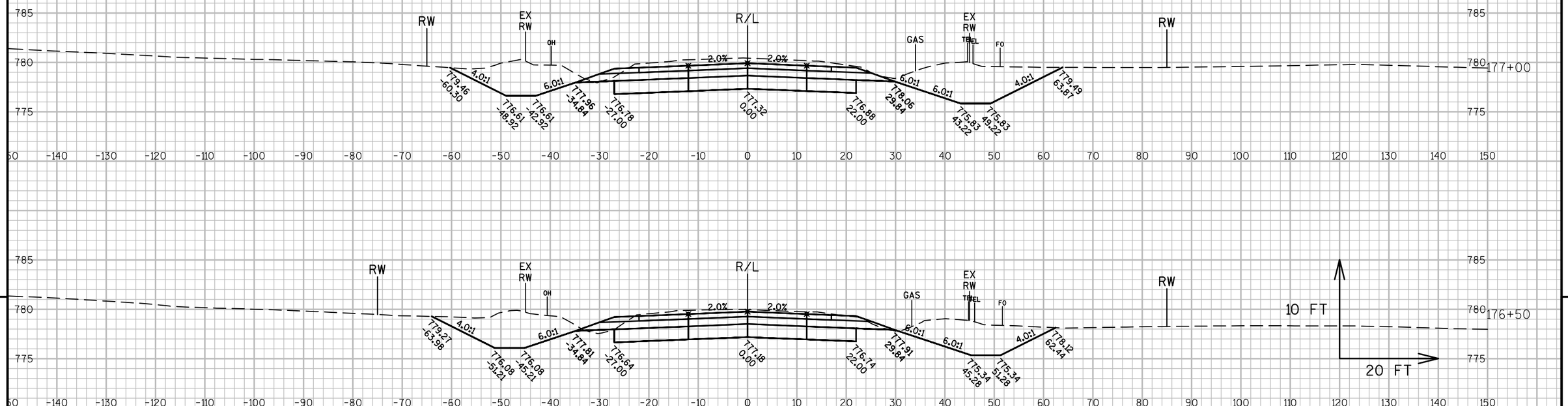
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 546	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (16)

PLOT DATE : 11/30/2016 11:07 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

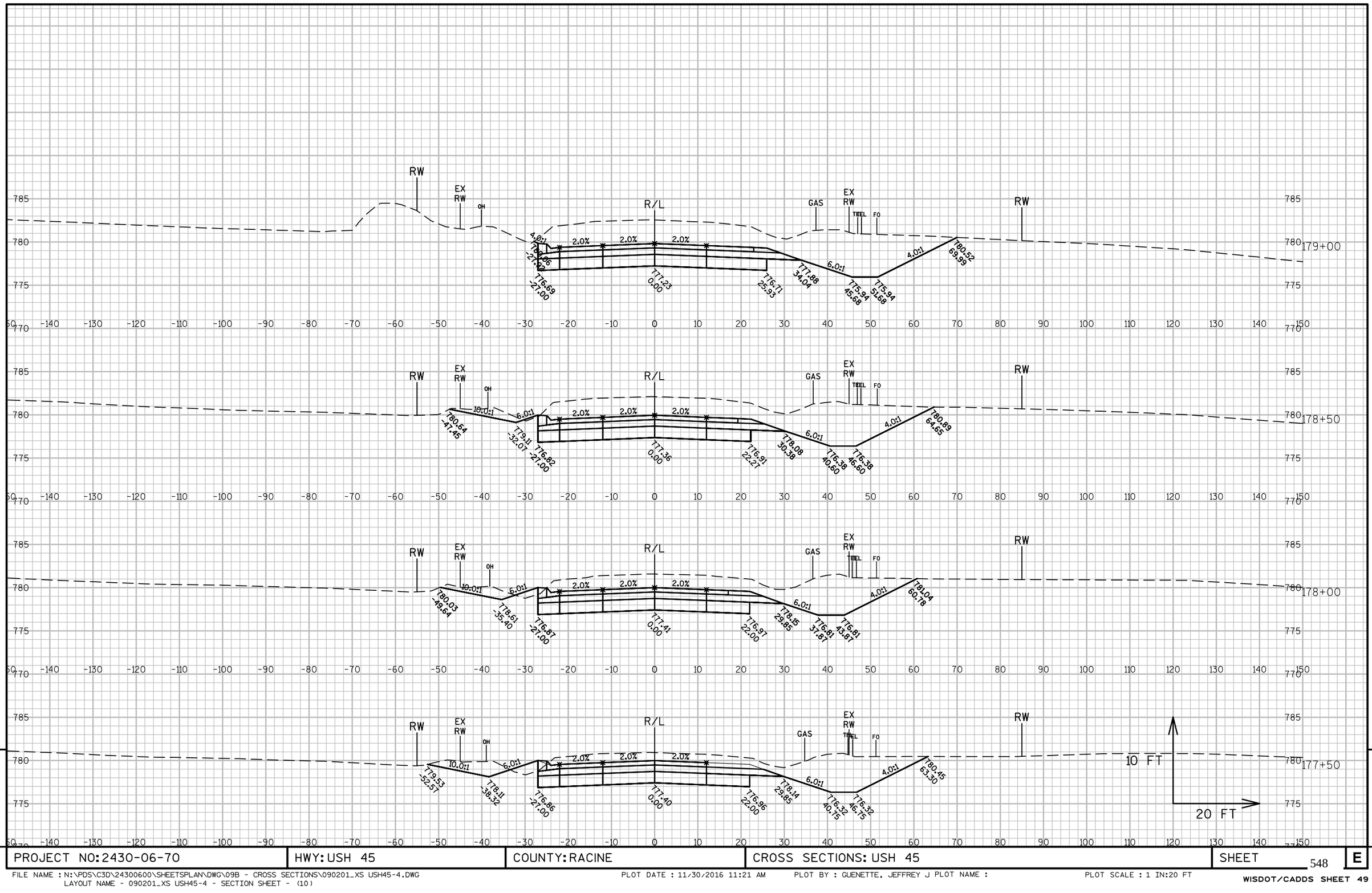
PLOT SCALE : 1 IN:20 FT



9 9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 547	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-3.DWG
LAYOUT NAME - 090201_XS USH45-3 - SECTION SHEET - (17)
PLOT DATE : 11/30/2016 11:07 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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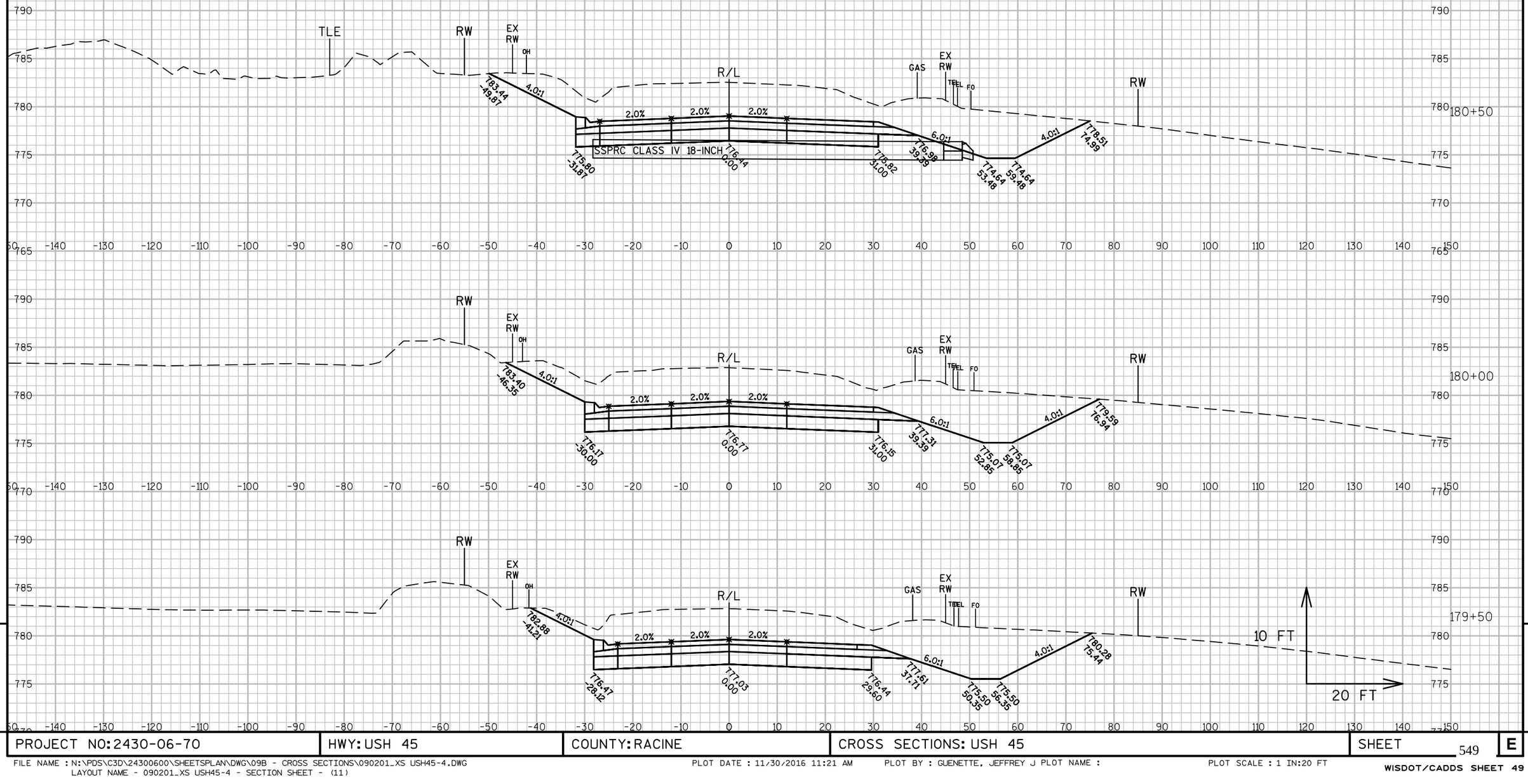
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 548	E

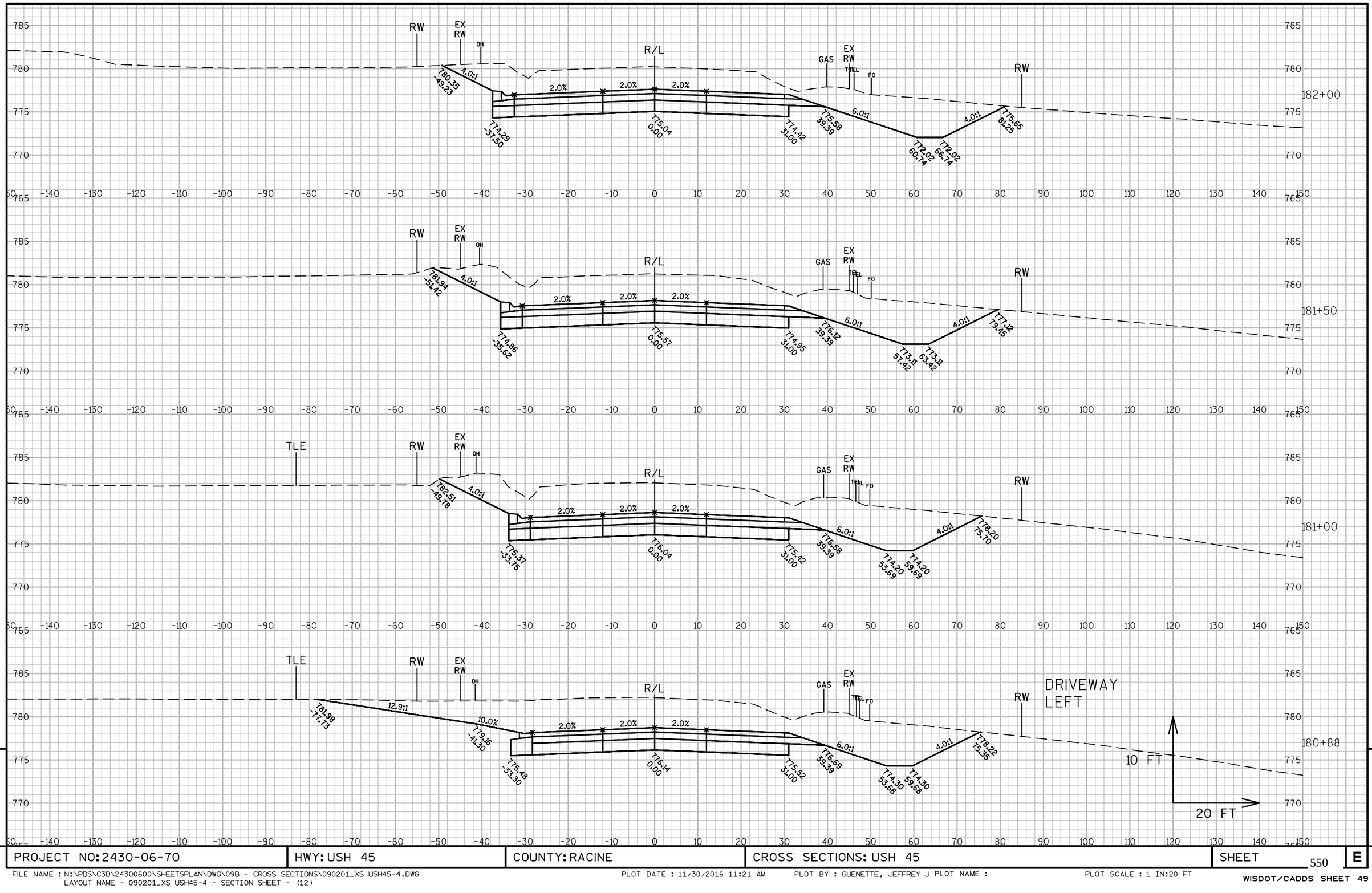
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-4.DWG
LAYOUT NAME - 090201_XS USH45-4 - SECTION SHEET - (10)
PLOT DATE : 11/30/2016 11:21 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 549	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-4.DWG
LAYOUT NAME - 090201_XS USH45-4 - SECTION SHEET - (11)

PLOT DATE : 11/30/2016 11:21 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

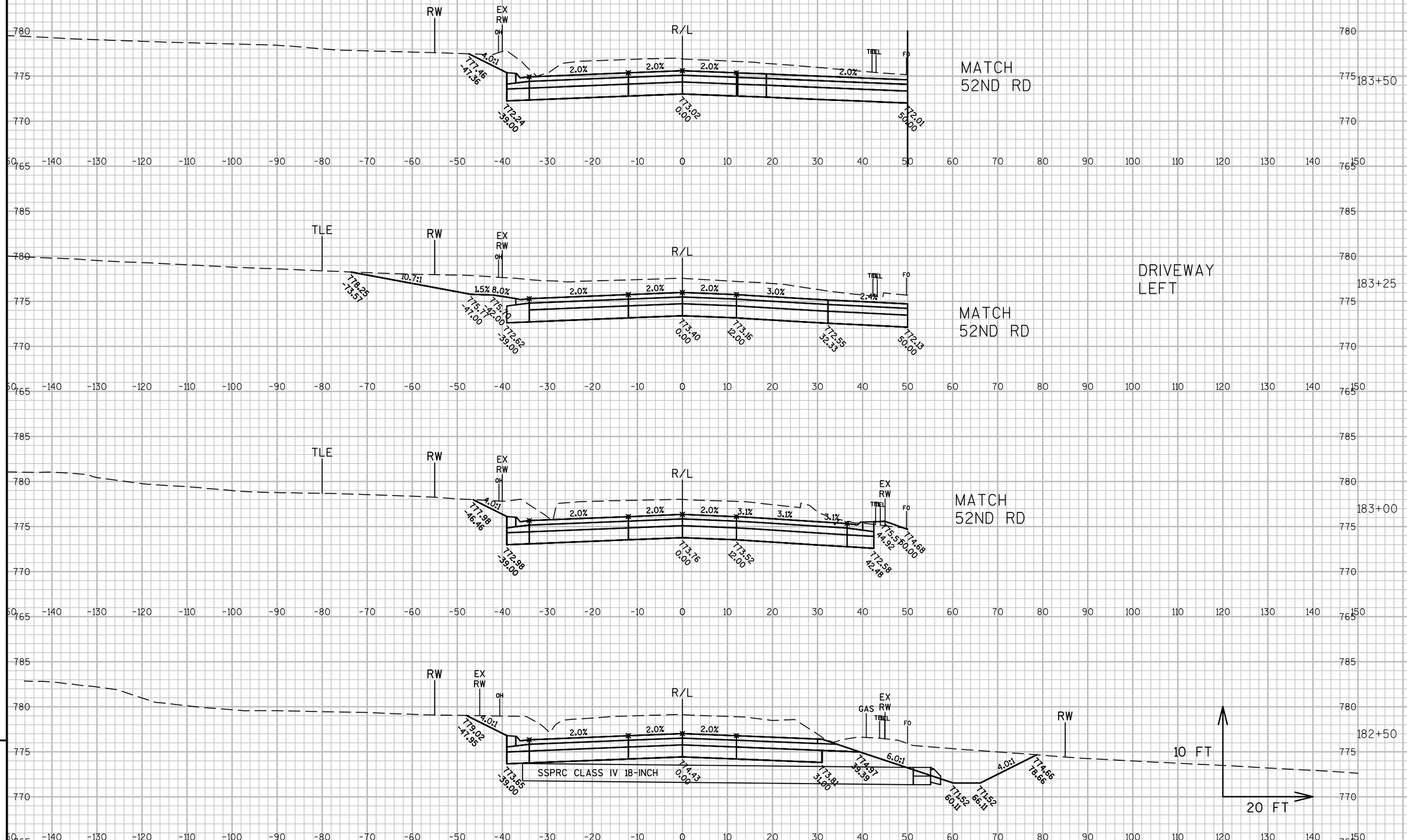


9

9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 550	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-4.DWG
LAYOUT NAME - 090201_XS USH45-4 - SECTION SHEET - (12)
PLOT DATE : 11/30/2016 11:21 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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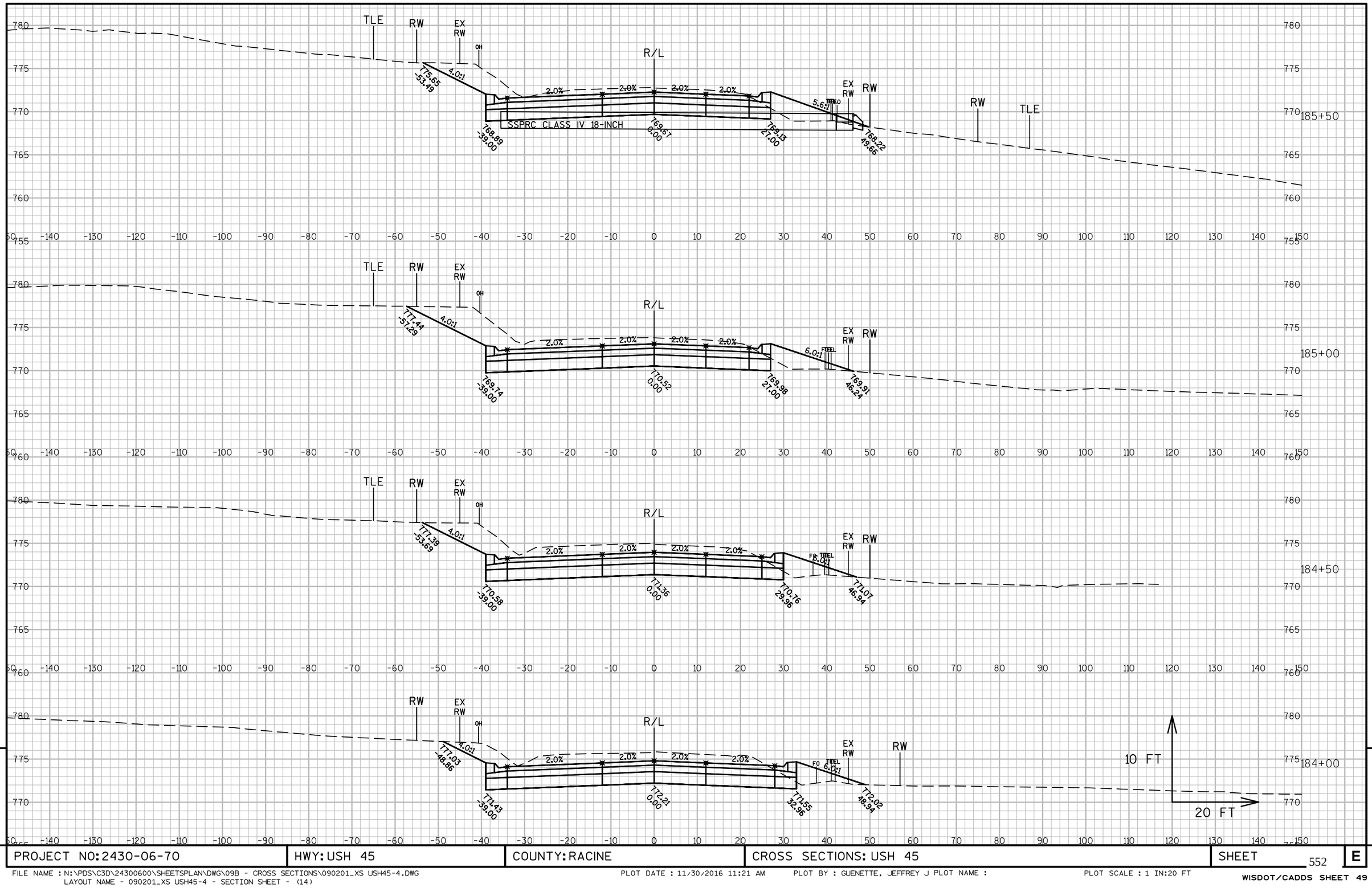
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 551	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-4.DWG
LAYOUT NAME - 090201_XS USH45-4 - SECTION SHEET - (13)
PLOT DATE : 11/30/2016 11:21 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

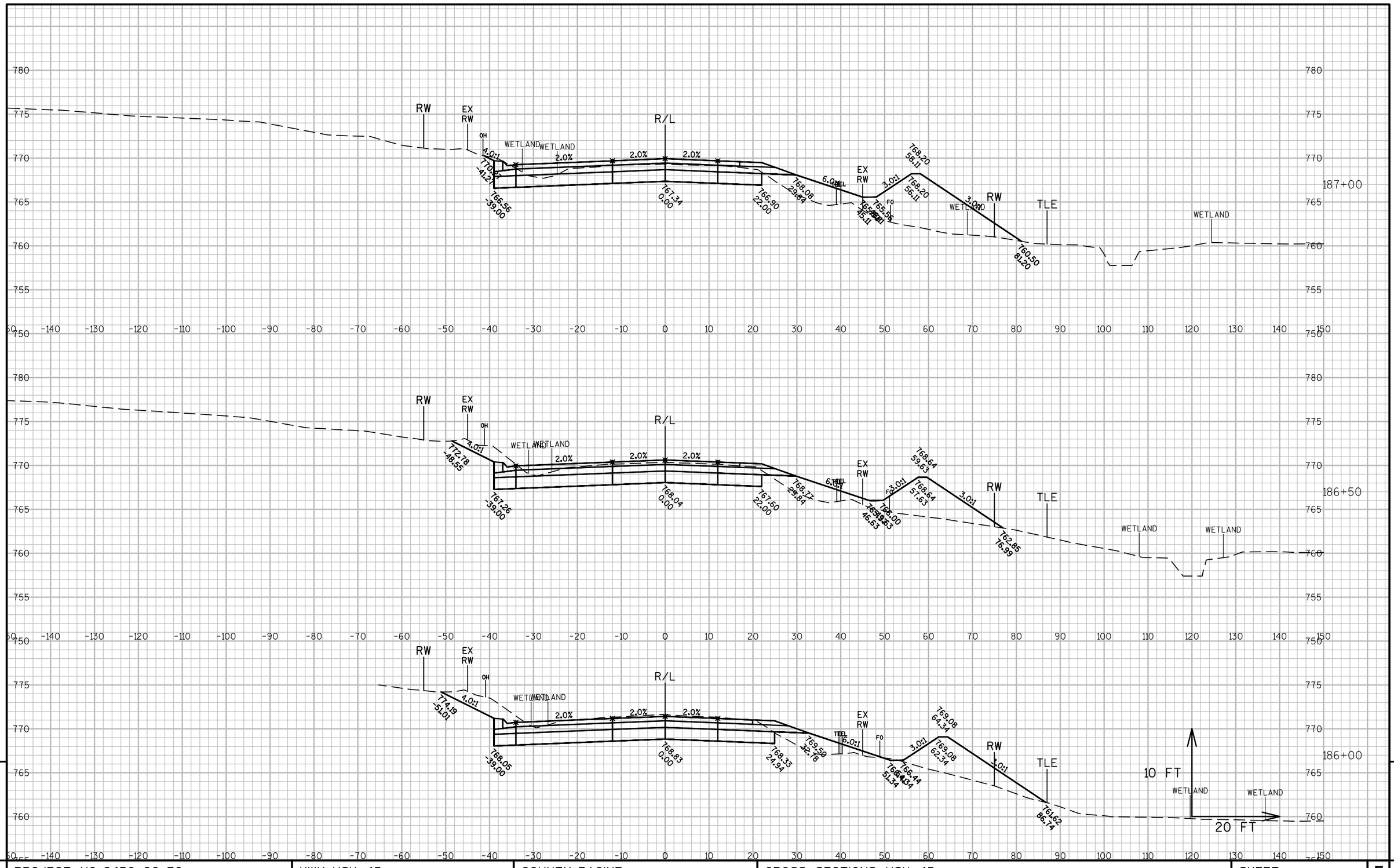


PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 552 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-4.DWG
LAYOUT NAME - 090201_XS USH45-4 - SECTION SHEET - (14)

PLOT DATE : 11/30/2016 11:21 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

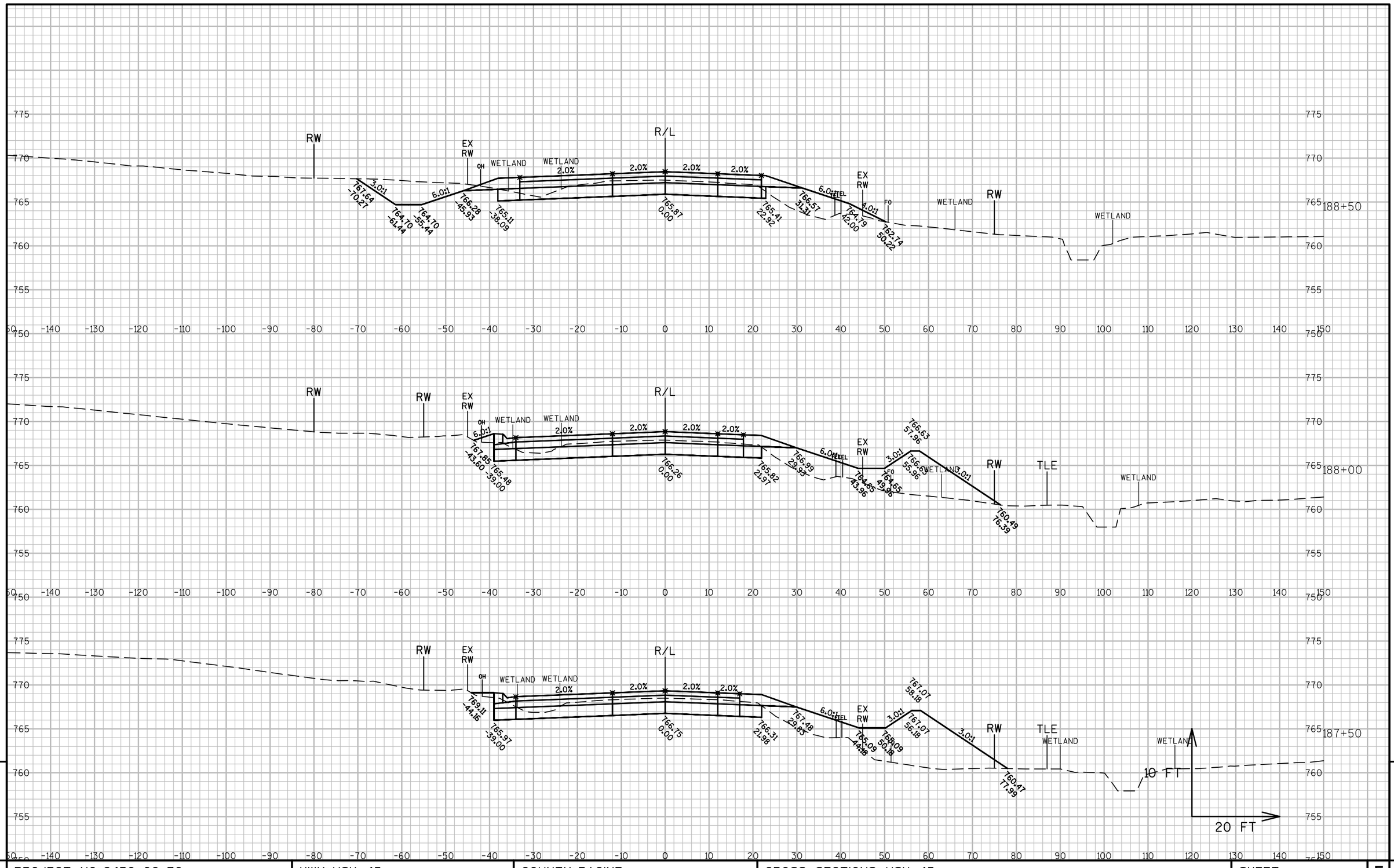


9

9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 553	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-4.DWG
LAYOUT NAME - 090201_XS USH45-4 - SECTION SHEET - (15)
PLOT DATE : 11/30/2016 11:22 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT



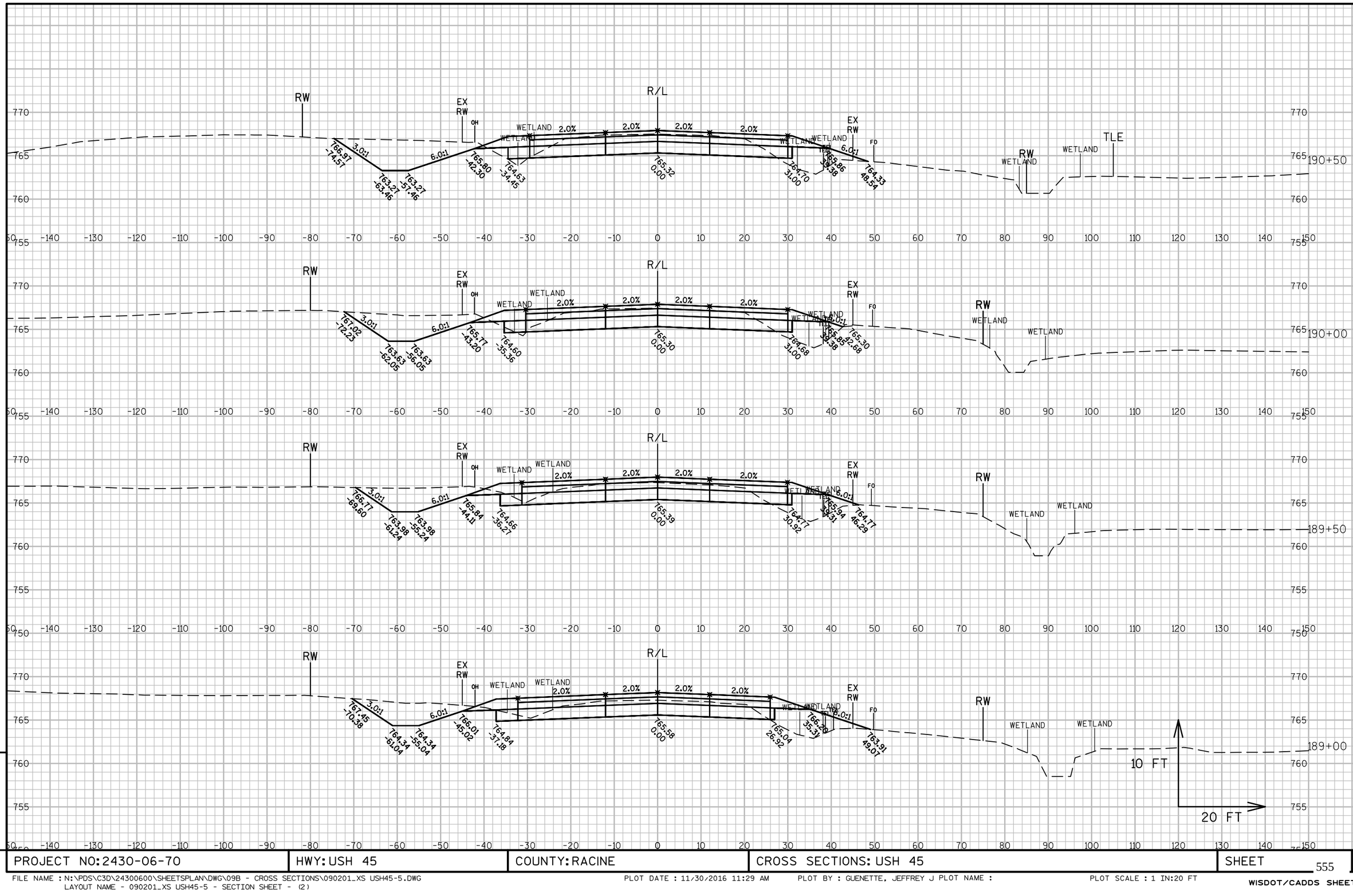
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 554	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-5.DWG
LAYOUT NAME - 090201_XS USH45-5 - SECTION SHEET - (1)

PLOT DATE : 11/30/2016 11:28 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



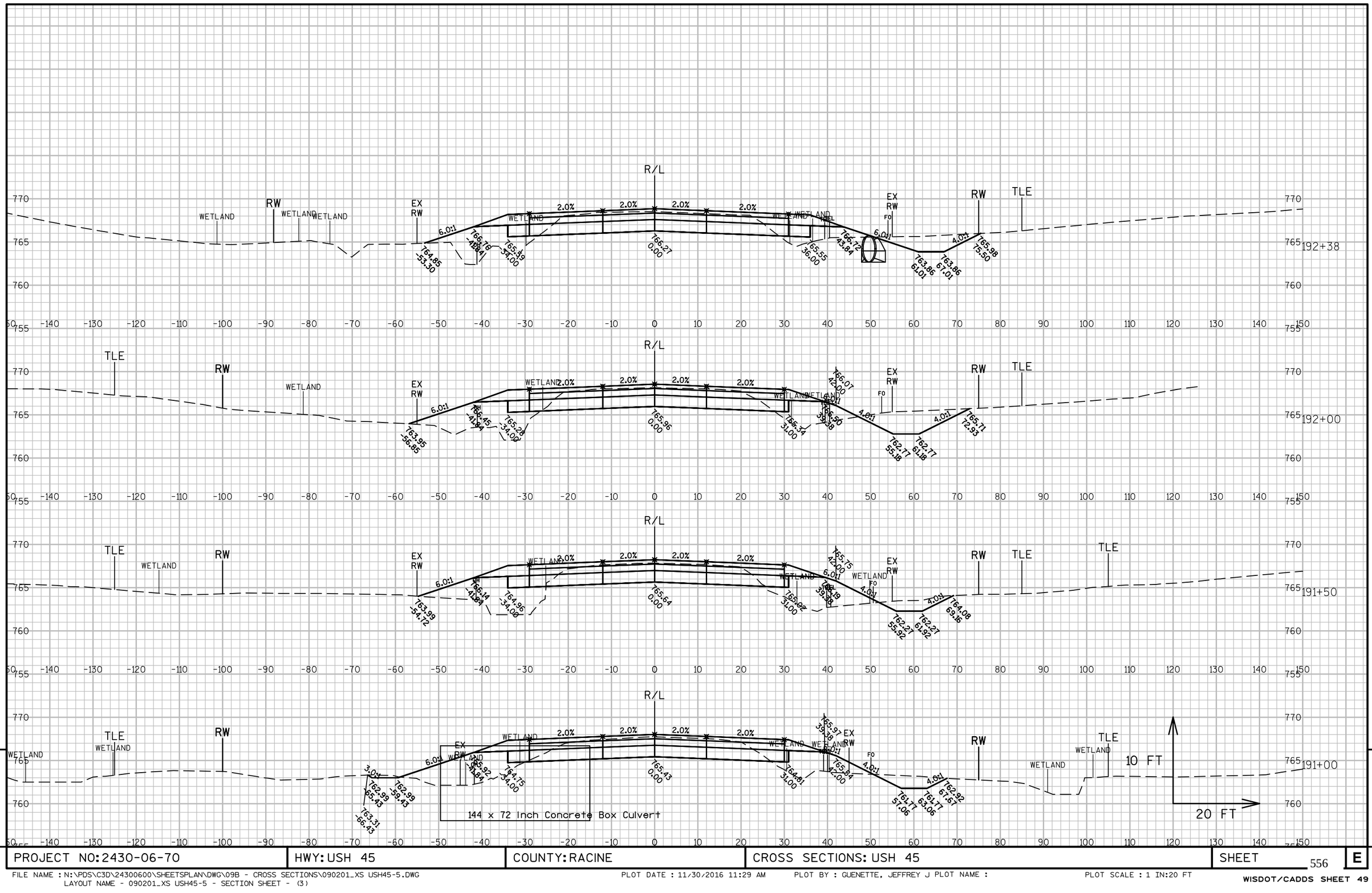
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 555	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-5.DWG
LAYOUT NAME - 090201_XS USH45-5 - SECTION SHEET - (2)

PLOT DATE : 11/30/2016 11:29 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



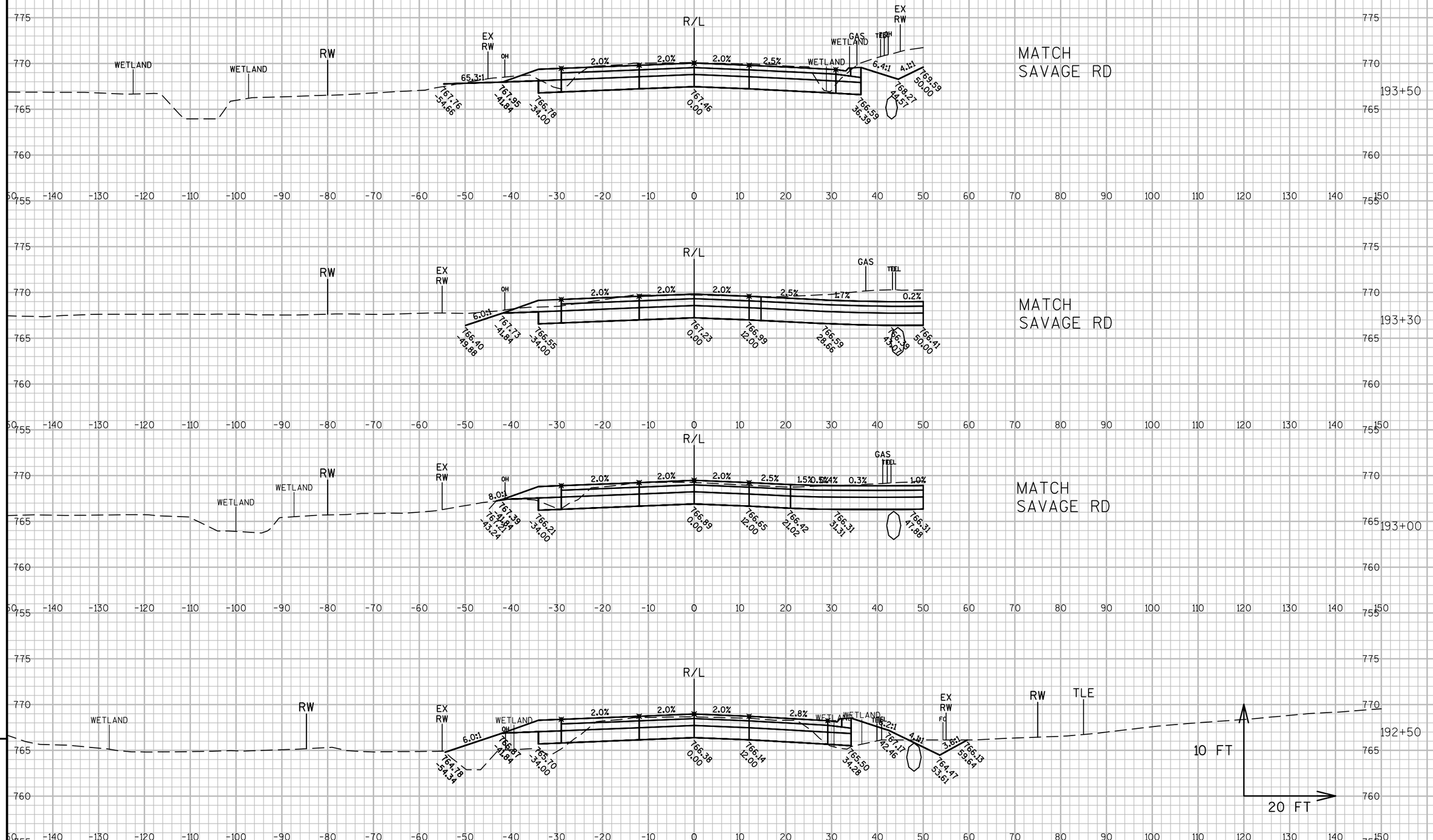
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 556	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-5.DWG
LAYOUT NAME - 090201_XS USH45-5 - SECTION SHEET - (3)

PLOT DATE : 11/30/2016 11:29 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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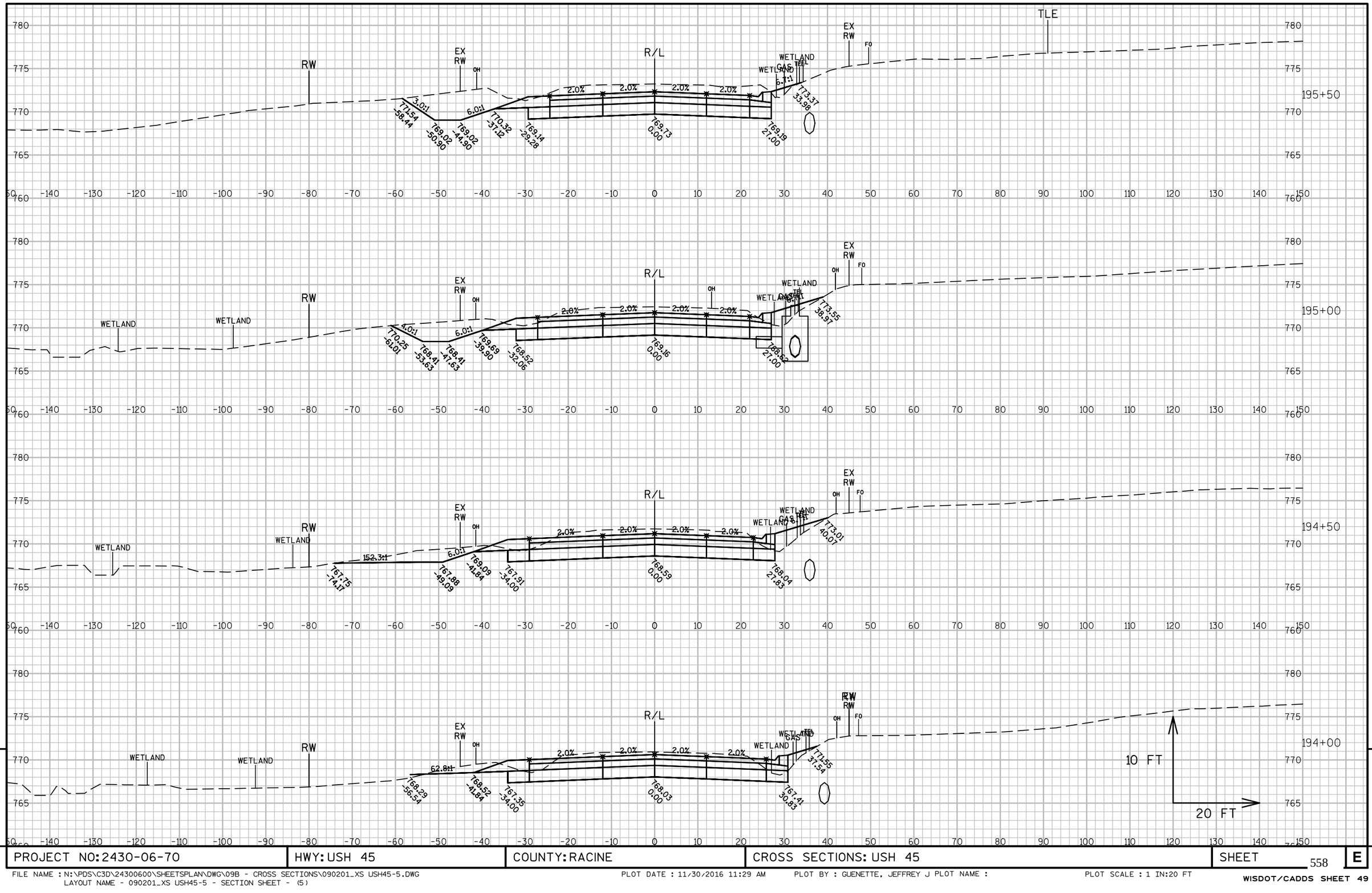
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 557	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-5.DWG
LAYOUT NAME - 090201_XS USH45-5 - SECTION SHEET - (4)
PLOT DATE : 11/30/2016 11:29 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT



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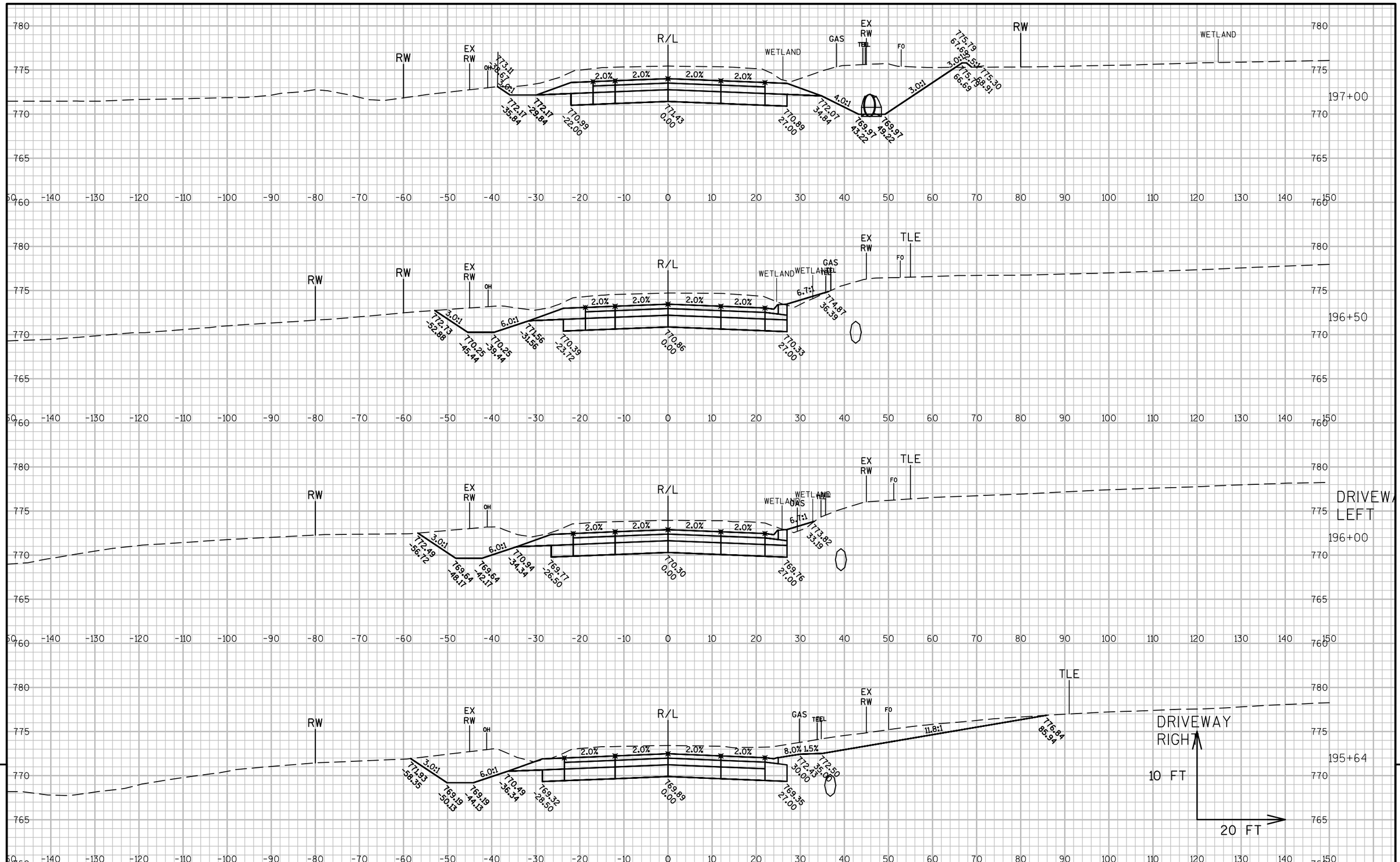
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 558 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-5.DWG
LAYOUT NAME - 090201_XS USH45-5 - SECTION SHEET - (5)
PLOT DATE : 11/30/2016 11:29 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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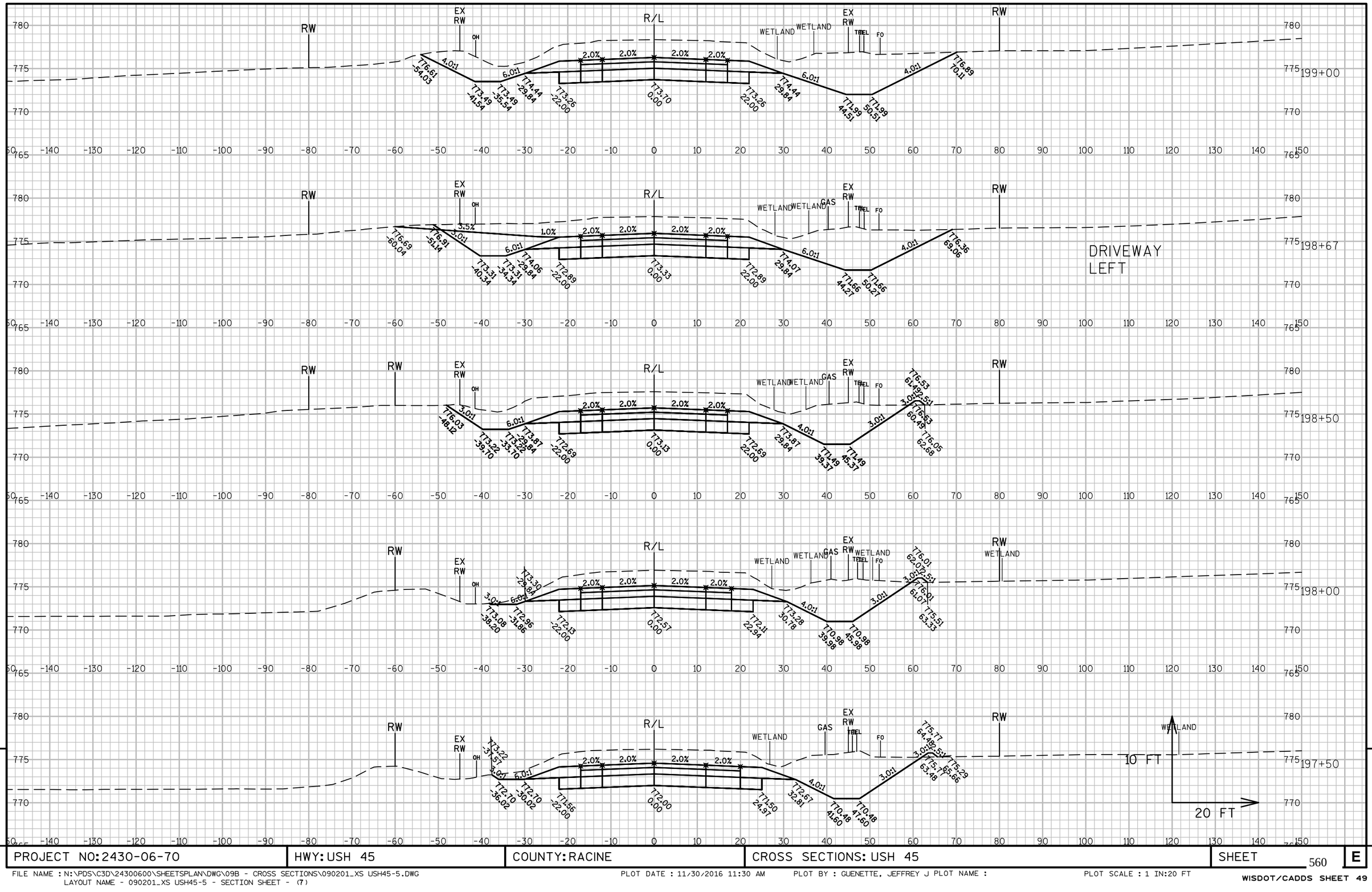
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 559 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-5.DWG
LAYOUT NAME - 090201_XS USH45-5 - SECTION SHEET - (6)

PLOT DATE : 11/30/2016 11:29 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

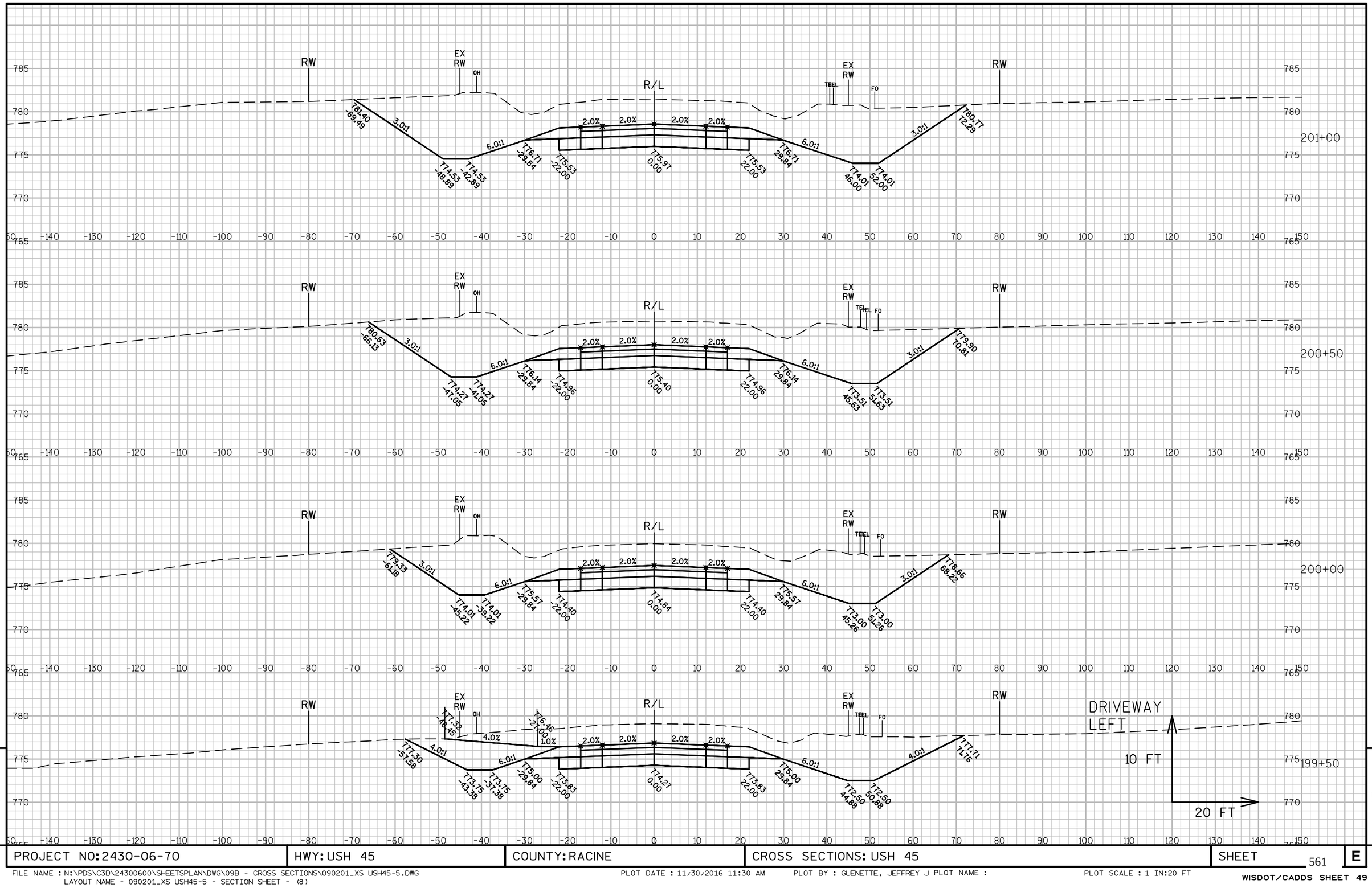
WISDOT/CADDS SHEET 49



9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 560	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-5.DWG
LAYOUT NAME - 090201_XS USH45-5 - SECTION SHEET - (7)
PLOT DATE : 11/30/2016 11:30 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

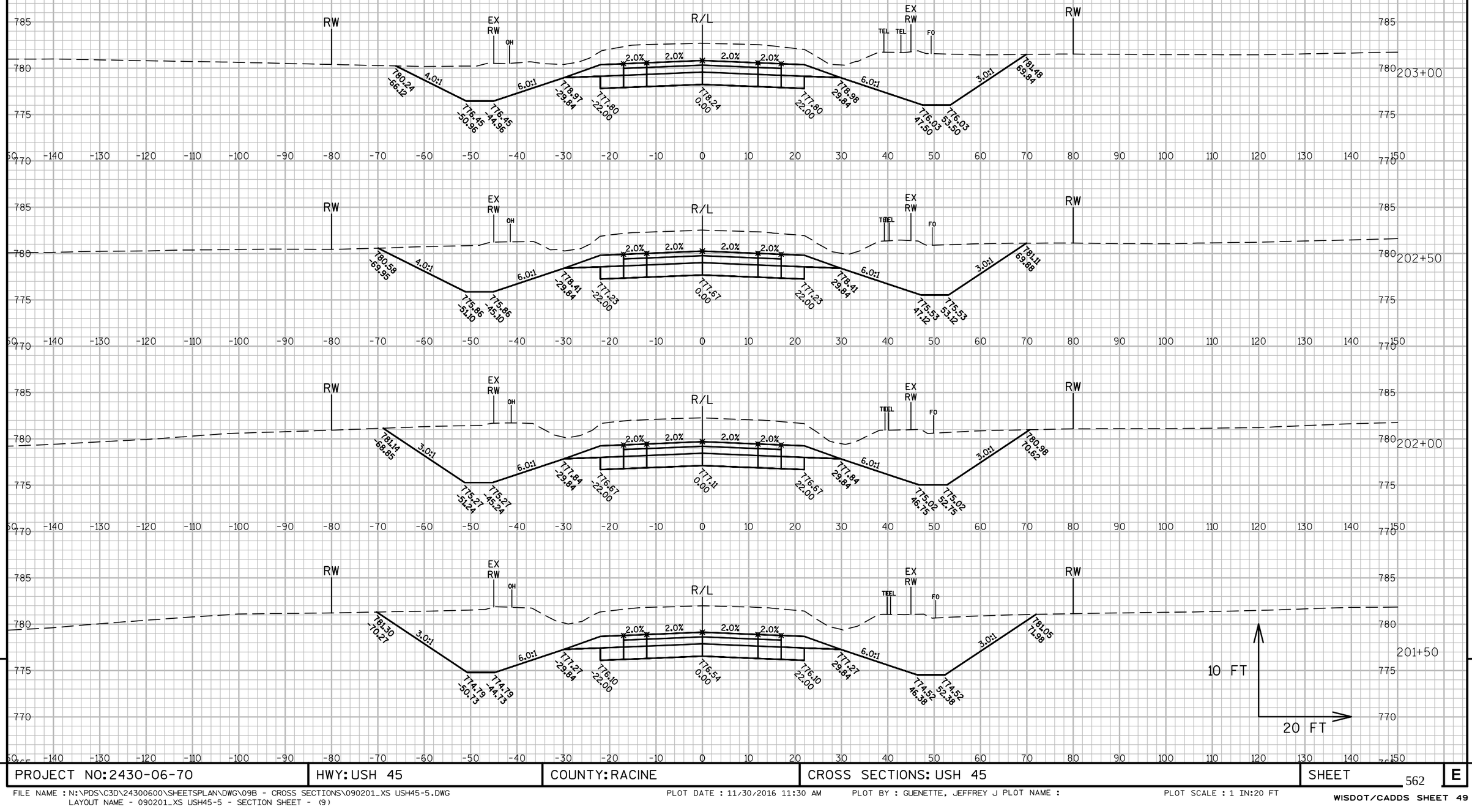


9 9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 561 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-5.DWG
LAYOUT NAME - 090201_XS USH45-5 - SECTION SHEET - (8)

PLOT DATE : 11/30/2016 11:30 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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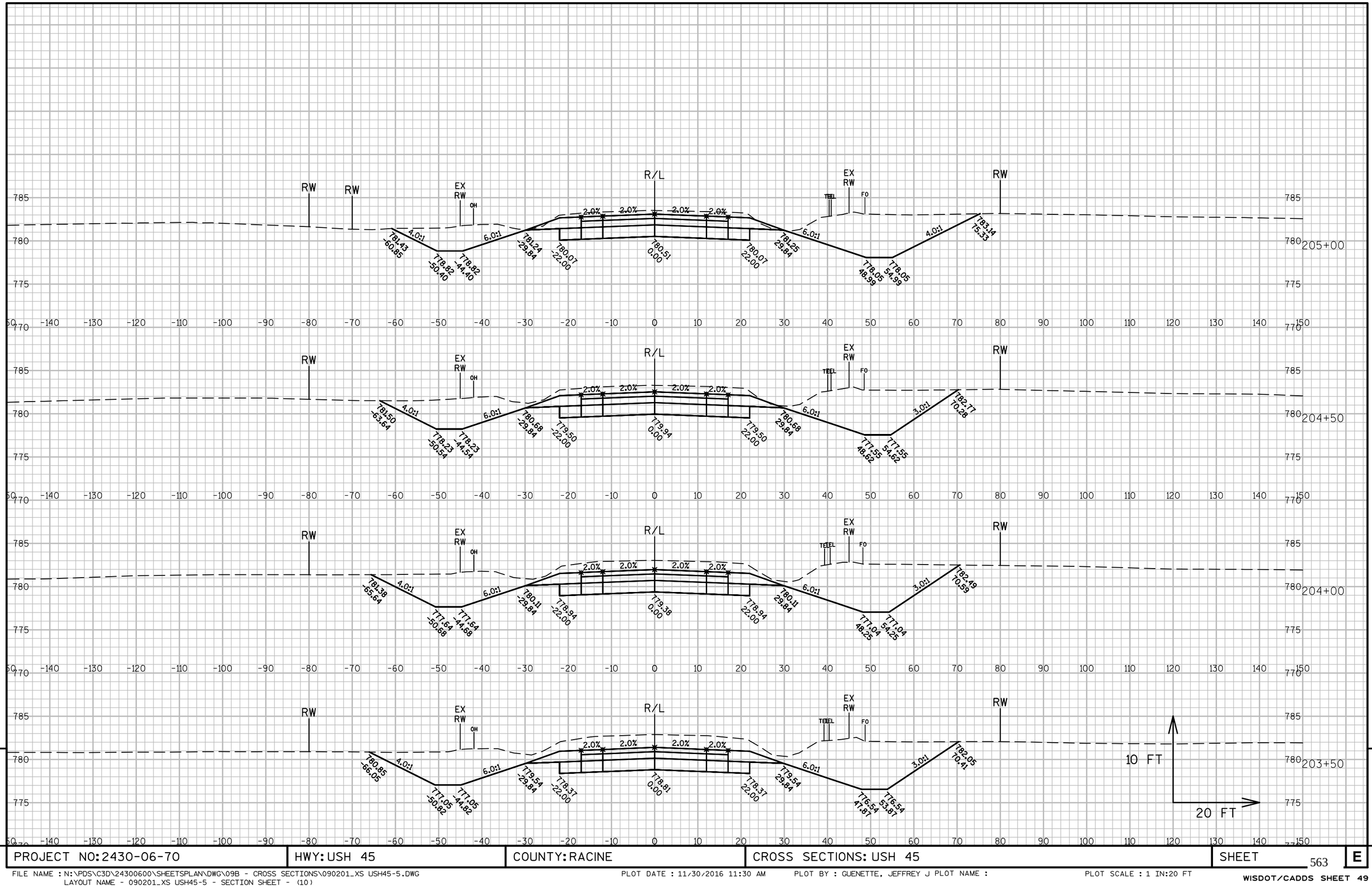
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 562	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-5.DWG
LAYOUT NAME - 090201_XS USH45-5 - SECTION SHEET - (9)

PLOT DATE : 11/30/2016 11:30 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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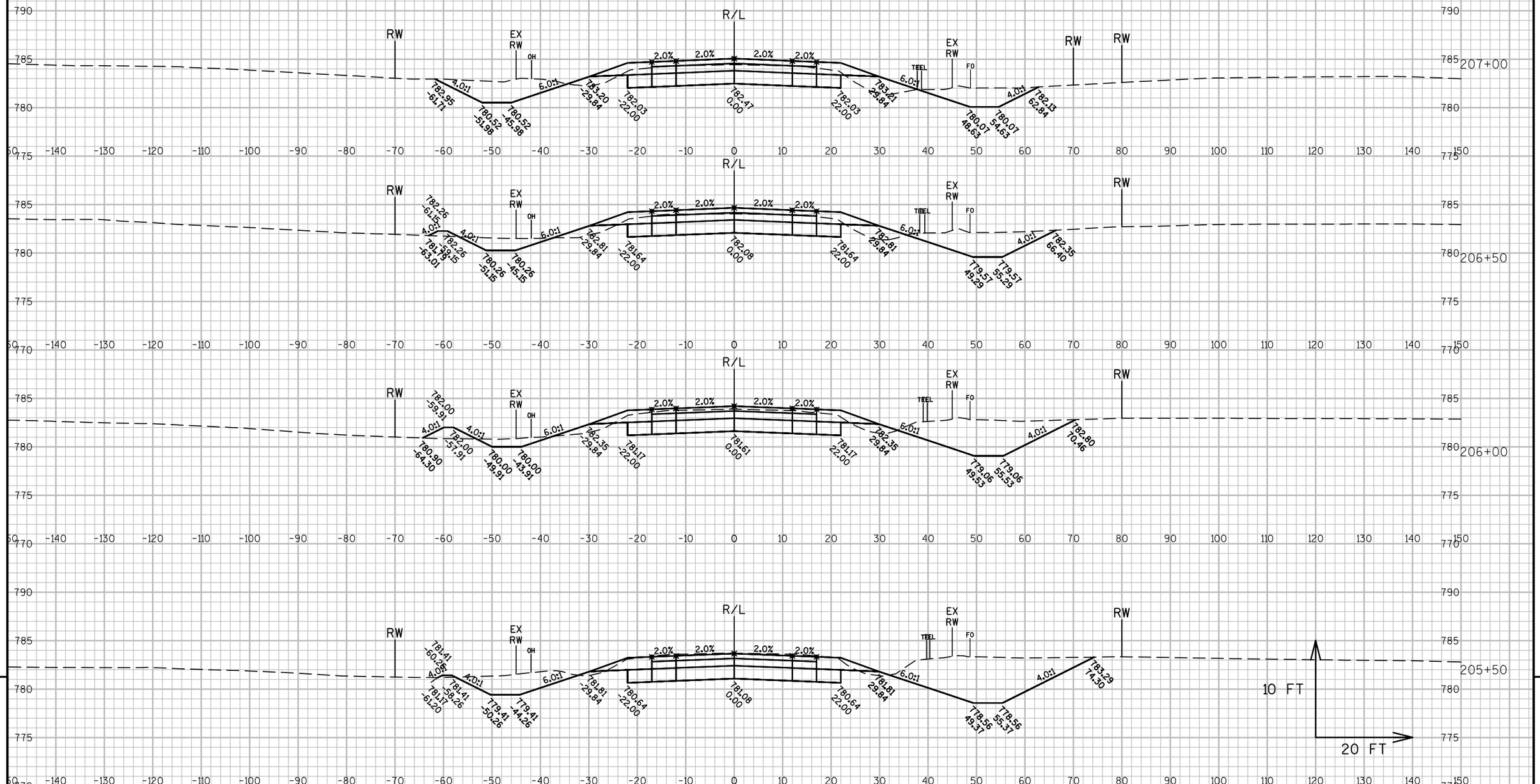
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 563	E

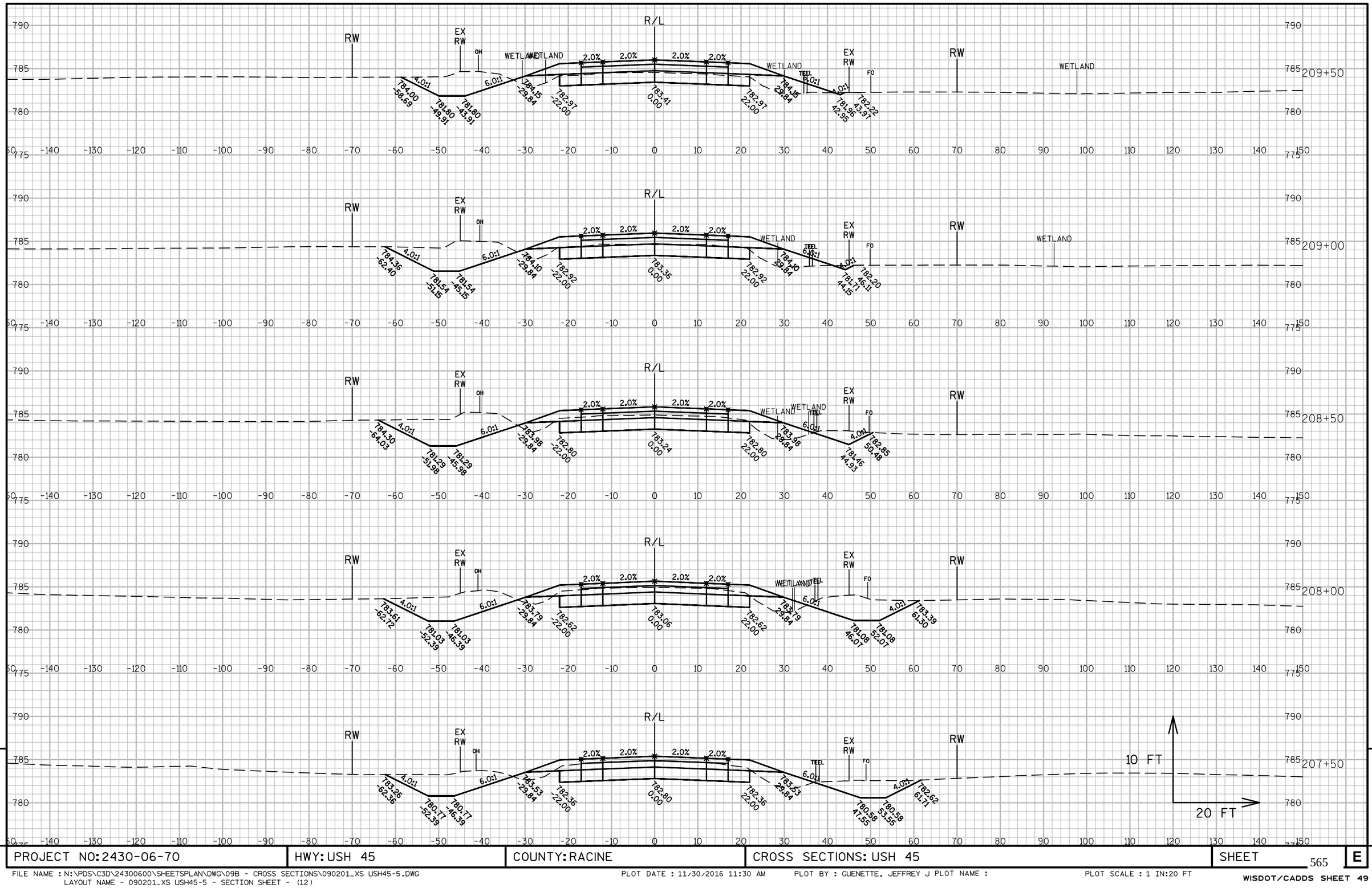


9

9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 564	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-5.DWG
LAYOUT NAME - 090201_XS USH45-5 - SECTION SHEET - (11)
PLOT DATE : 11/30/2016 11:30 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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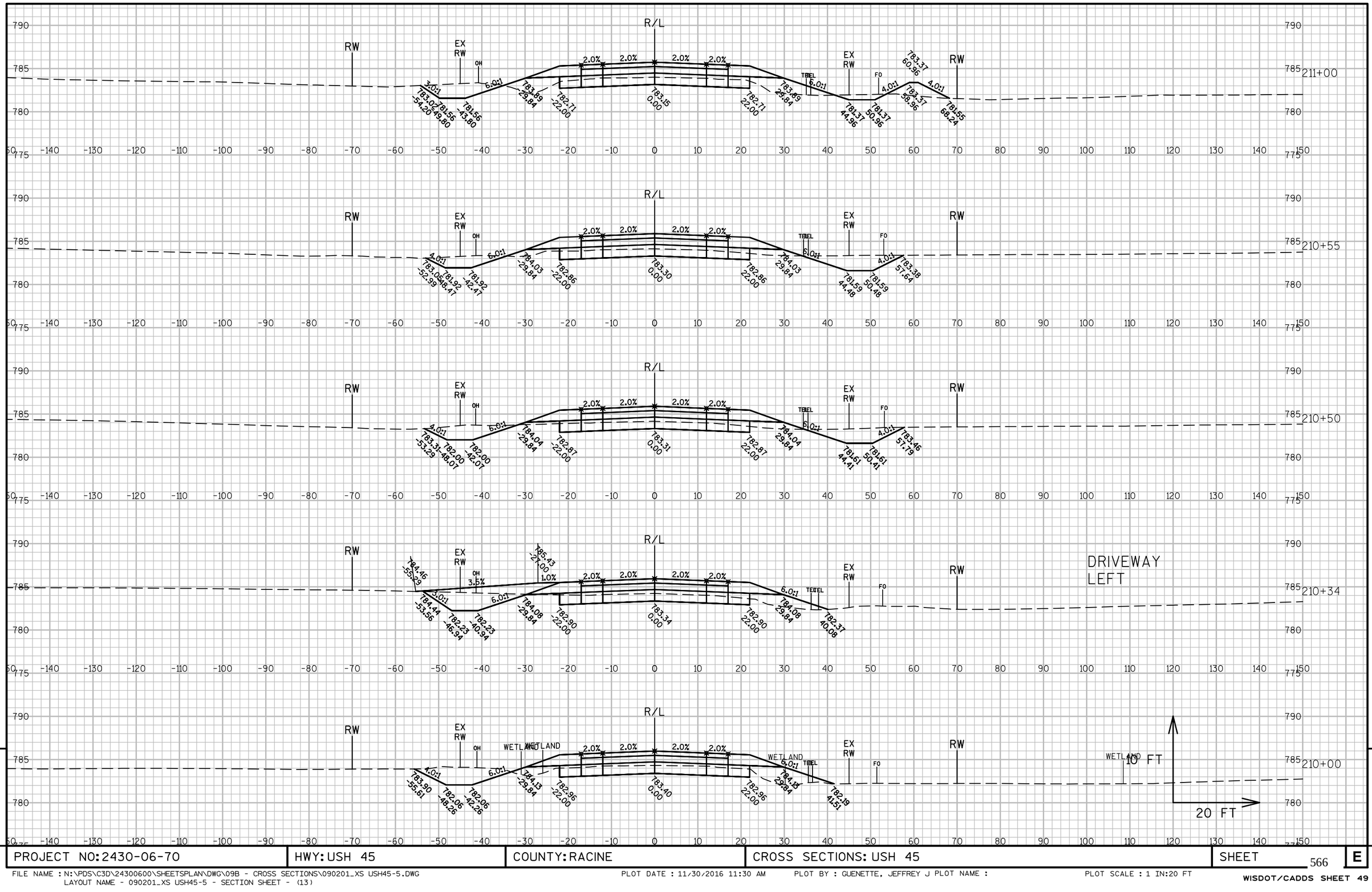
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 565	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-5.DWG
LAYOUT NAME - 090201_XS USH45-5 - SECTION SHEET - (12)

PLOT DATE : 11/30/2016 11:30 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

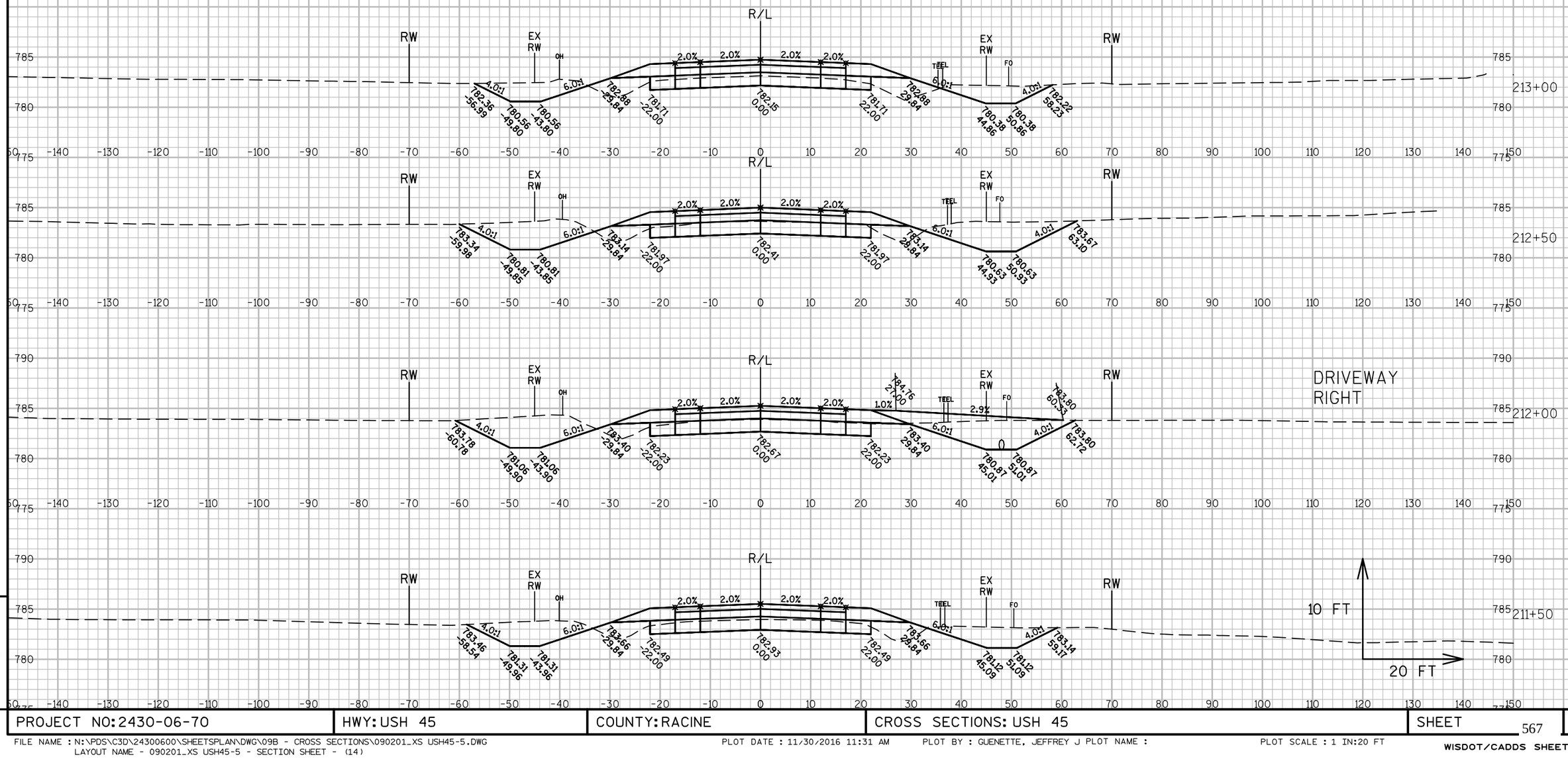
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 566	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-5.DWG
LAYOUT NAME - 090201_XS USH45-5 - SECTION SHEET - (13)

PLOT DATE : 11/30/2016 11:30 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

9

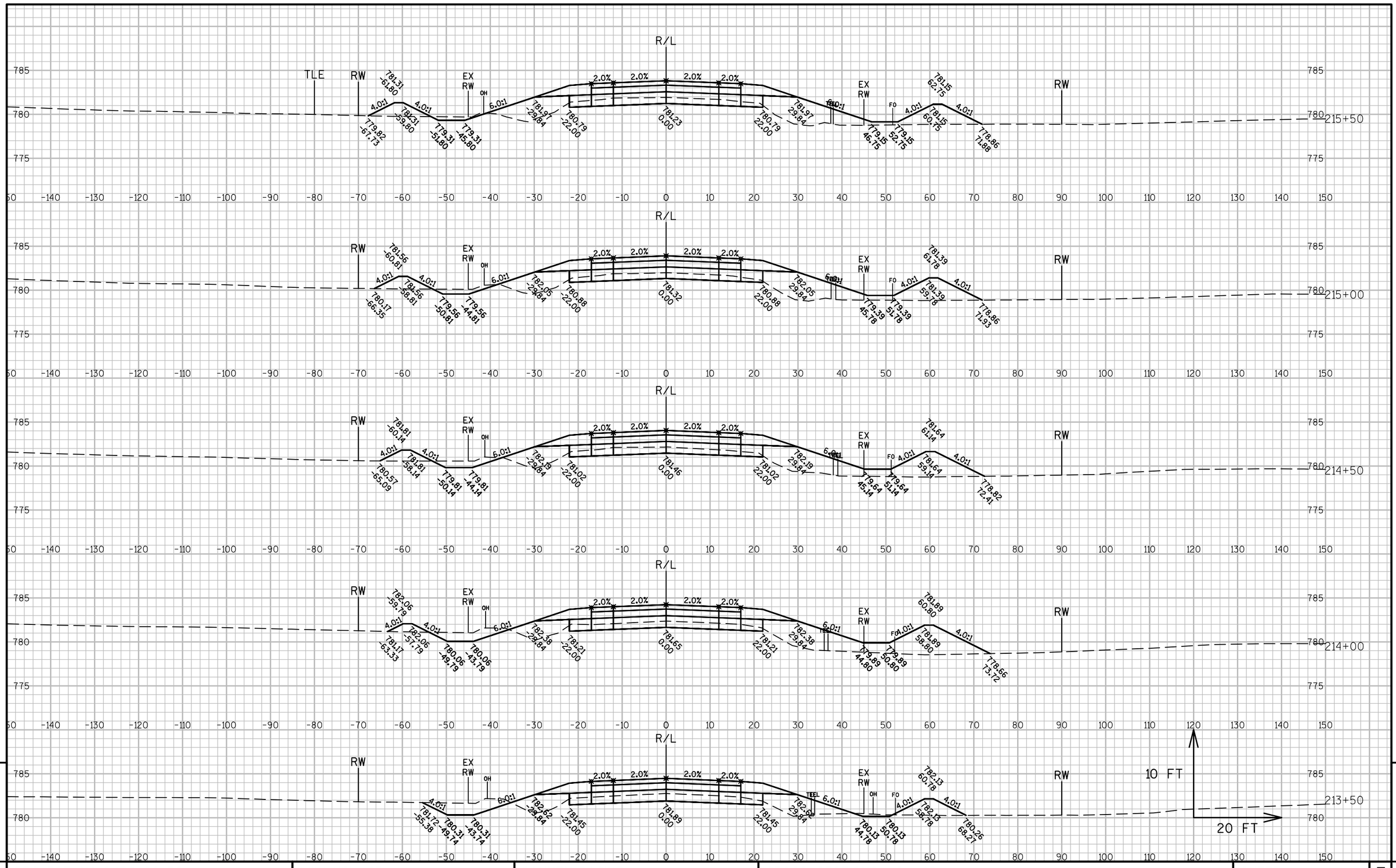
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 567	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-5.DWG
LAYOUT NAME - 090201_XS USH45-5 - SECTION SHEET - (14)

PLOT DATE : 11/30/2016 11:31 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

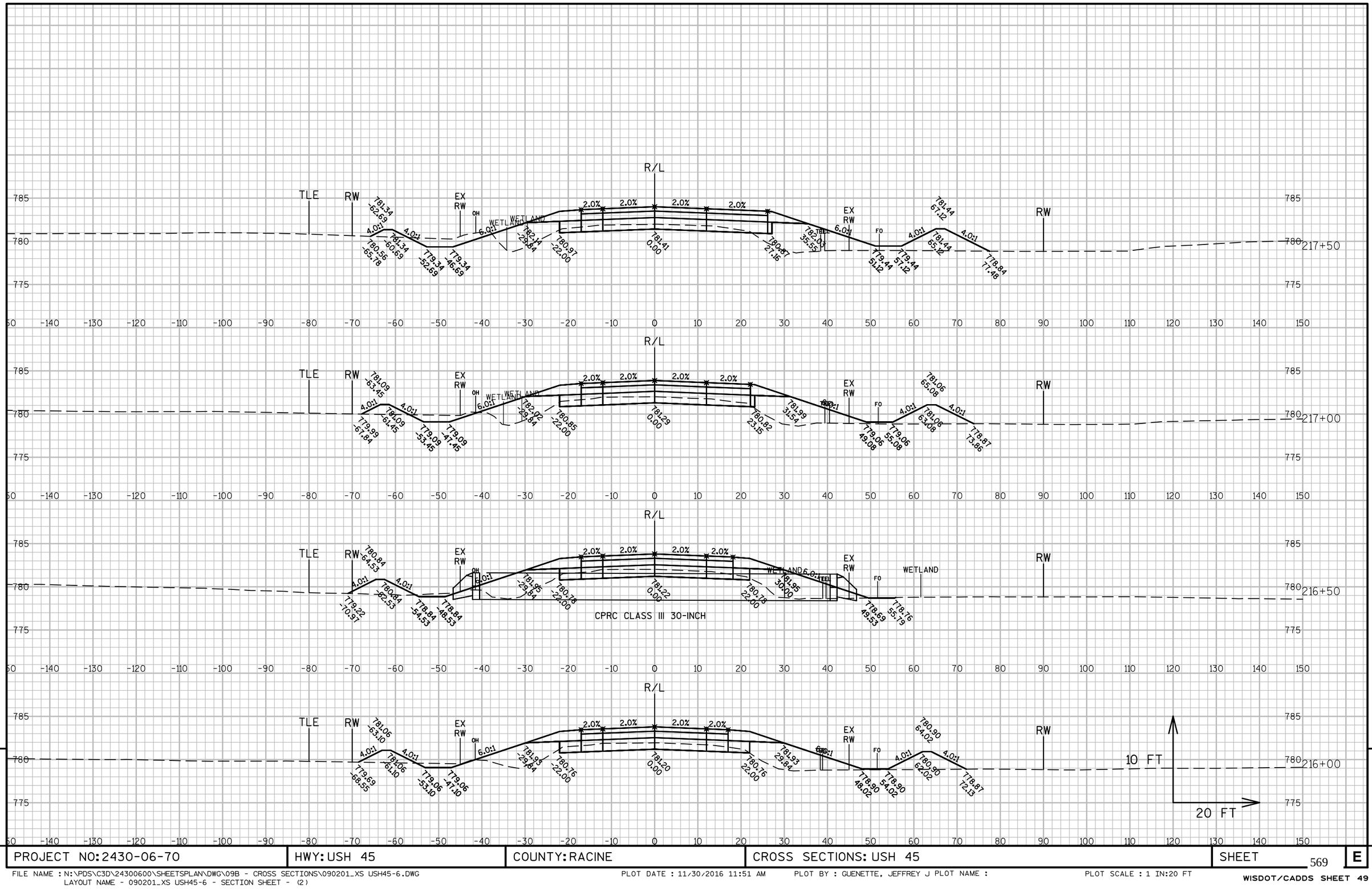
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 568	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (1)

PLOT DATE : 11/30/2016 11:50 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



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PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 569	E

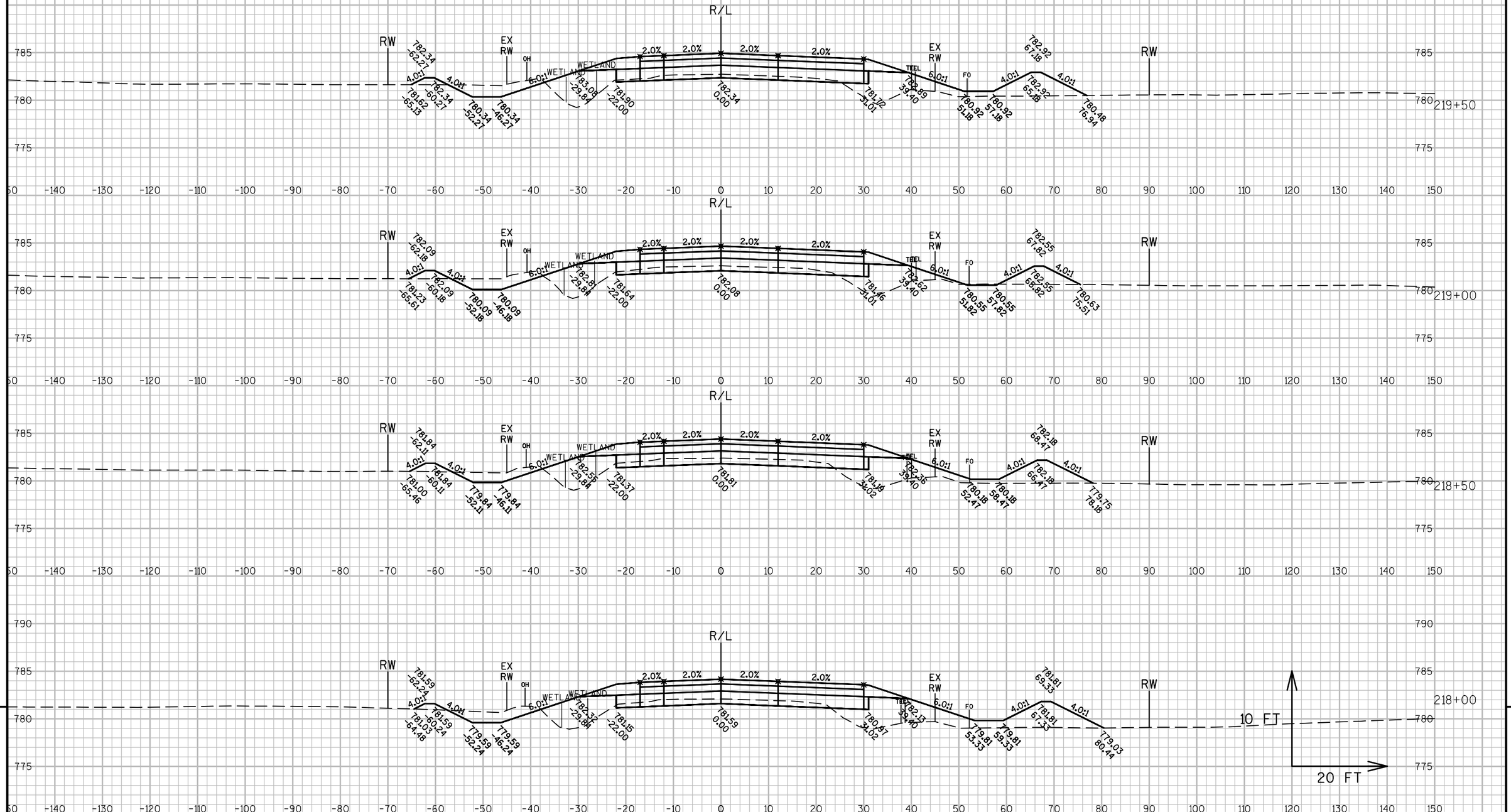
9

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (2)

PLOT DATE : 11/30/2016 11:51 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

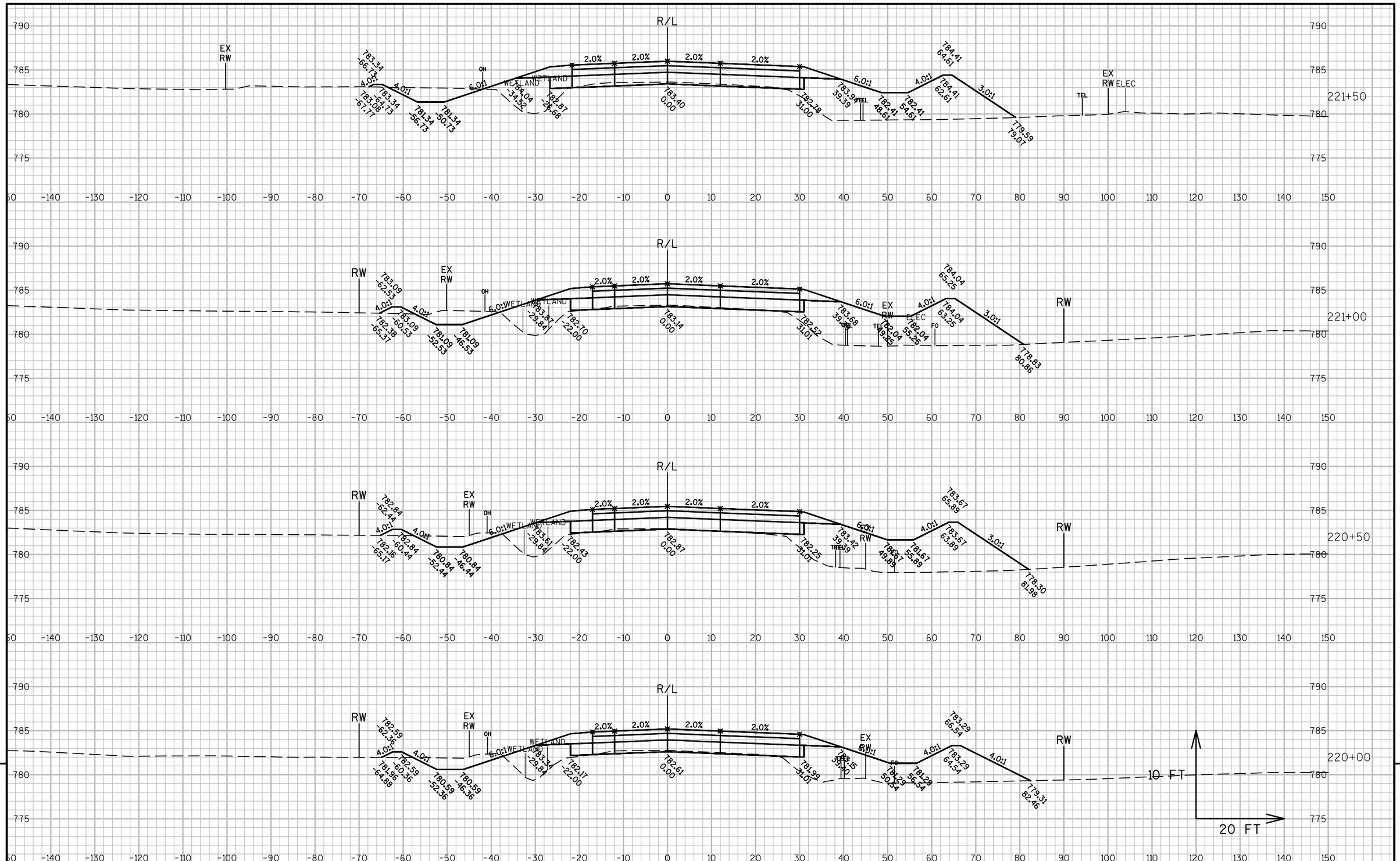
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 570	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (3)

PLOT DATE : 11/30/2016 11:51 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



9

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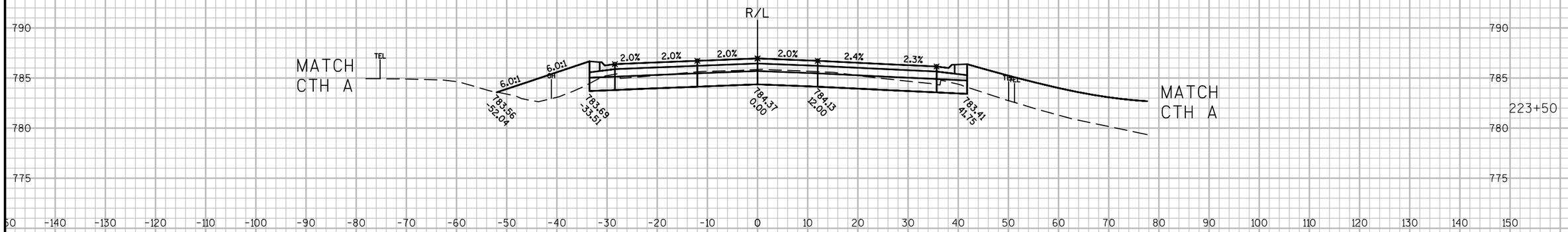
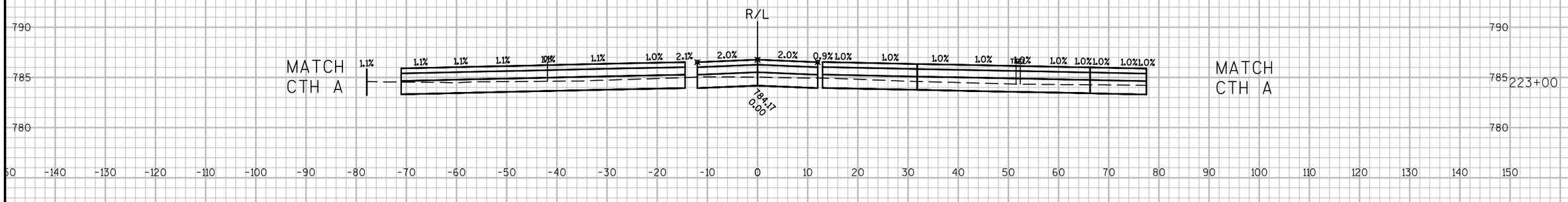
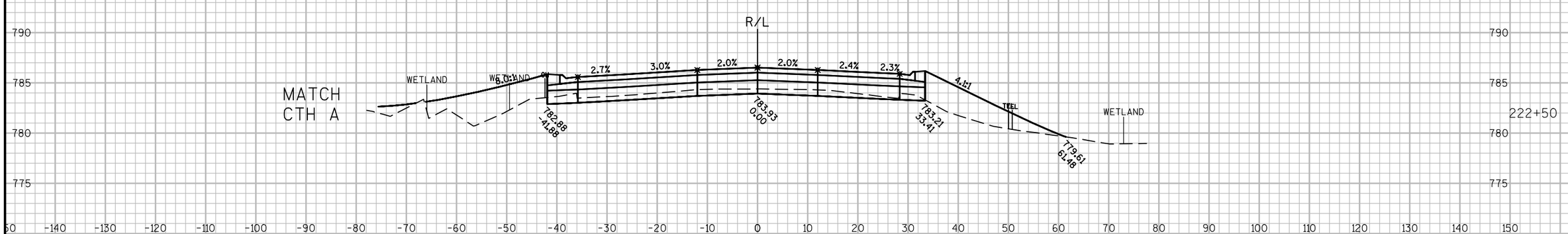
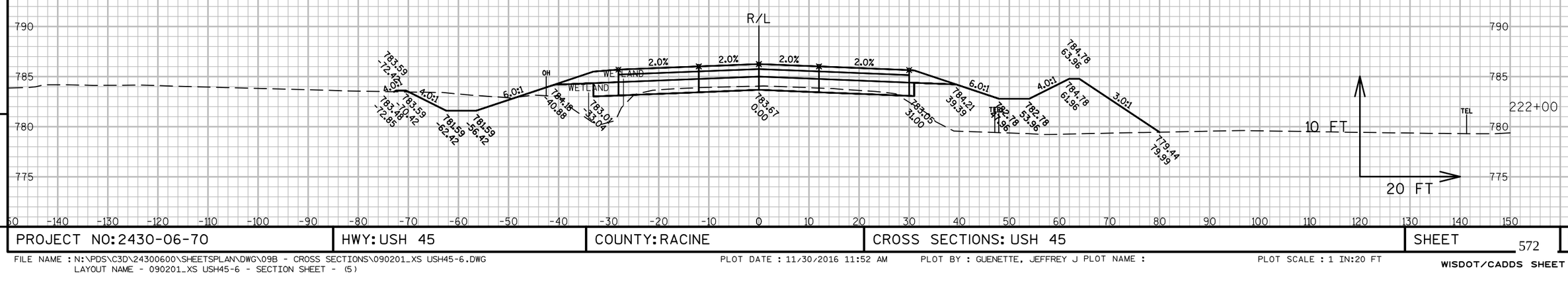
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 571 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (4)
PLOT DATE : 11/30/2016 11:51 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49









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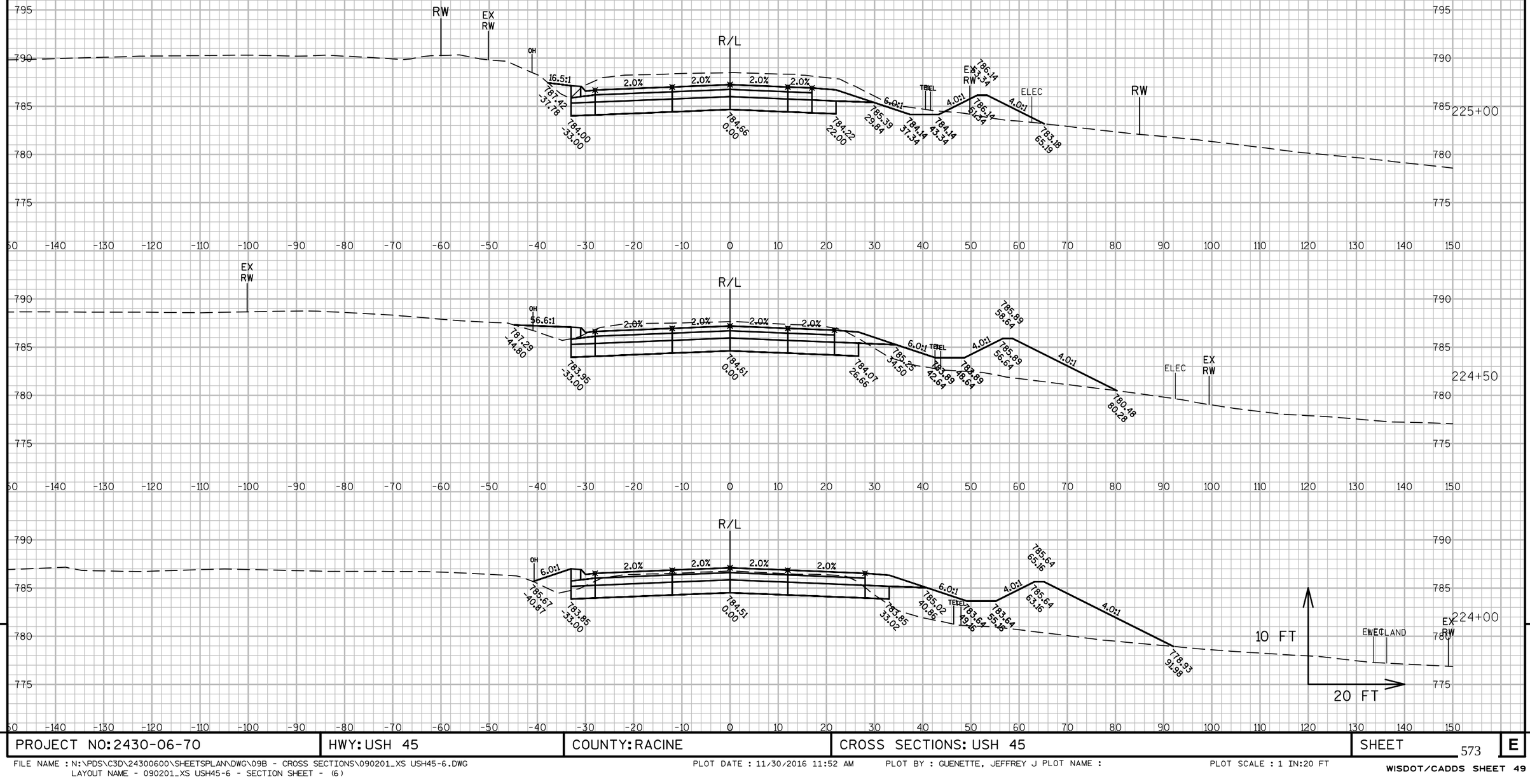
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 572	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (5)

PLOT DATE : 11/30/2016 11:52 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

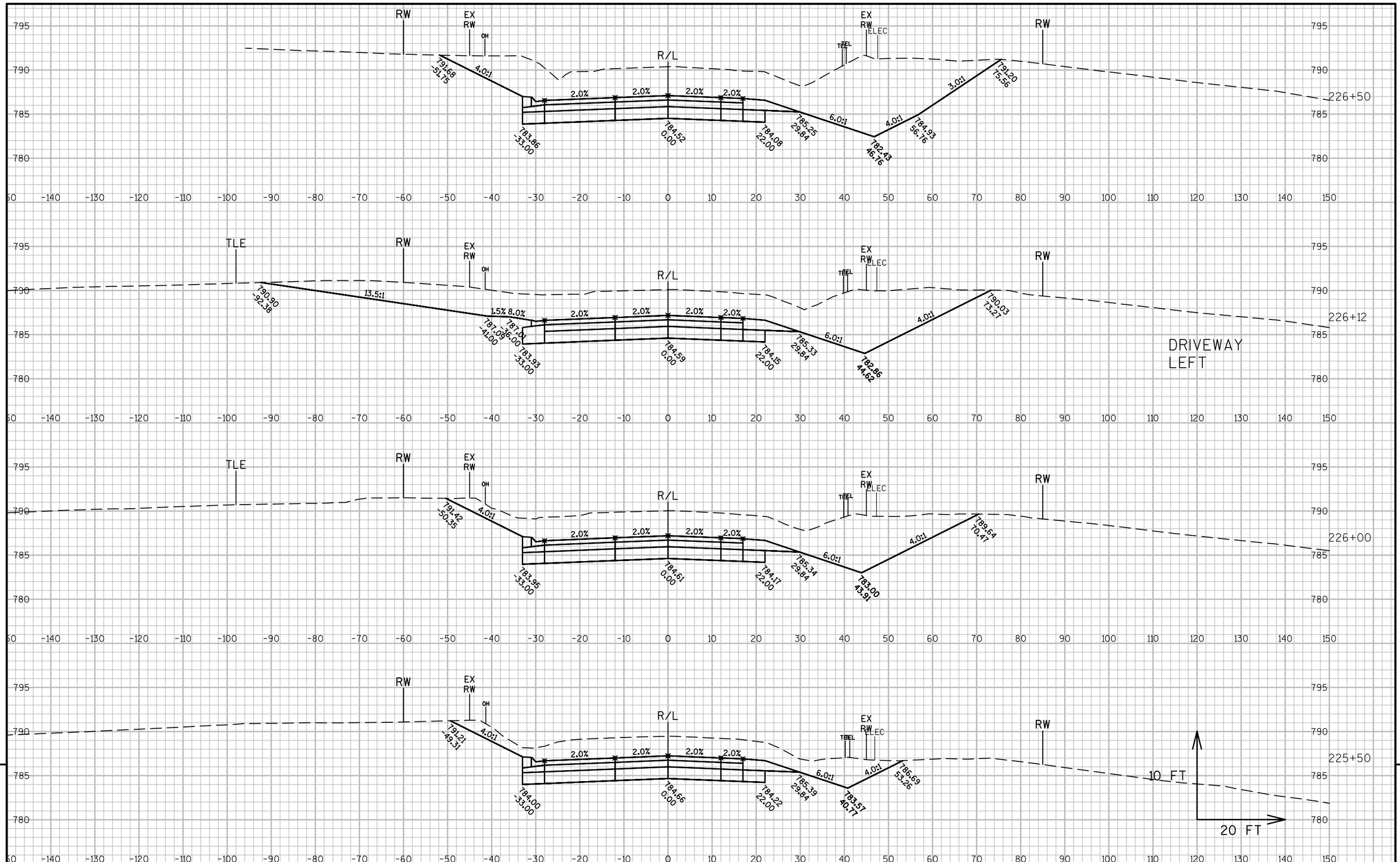


PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 573	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (6)

PLOT DATE : 11/30/2016 11:52 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



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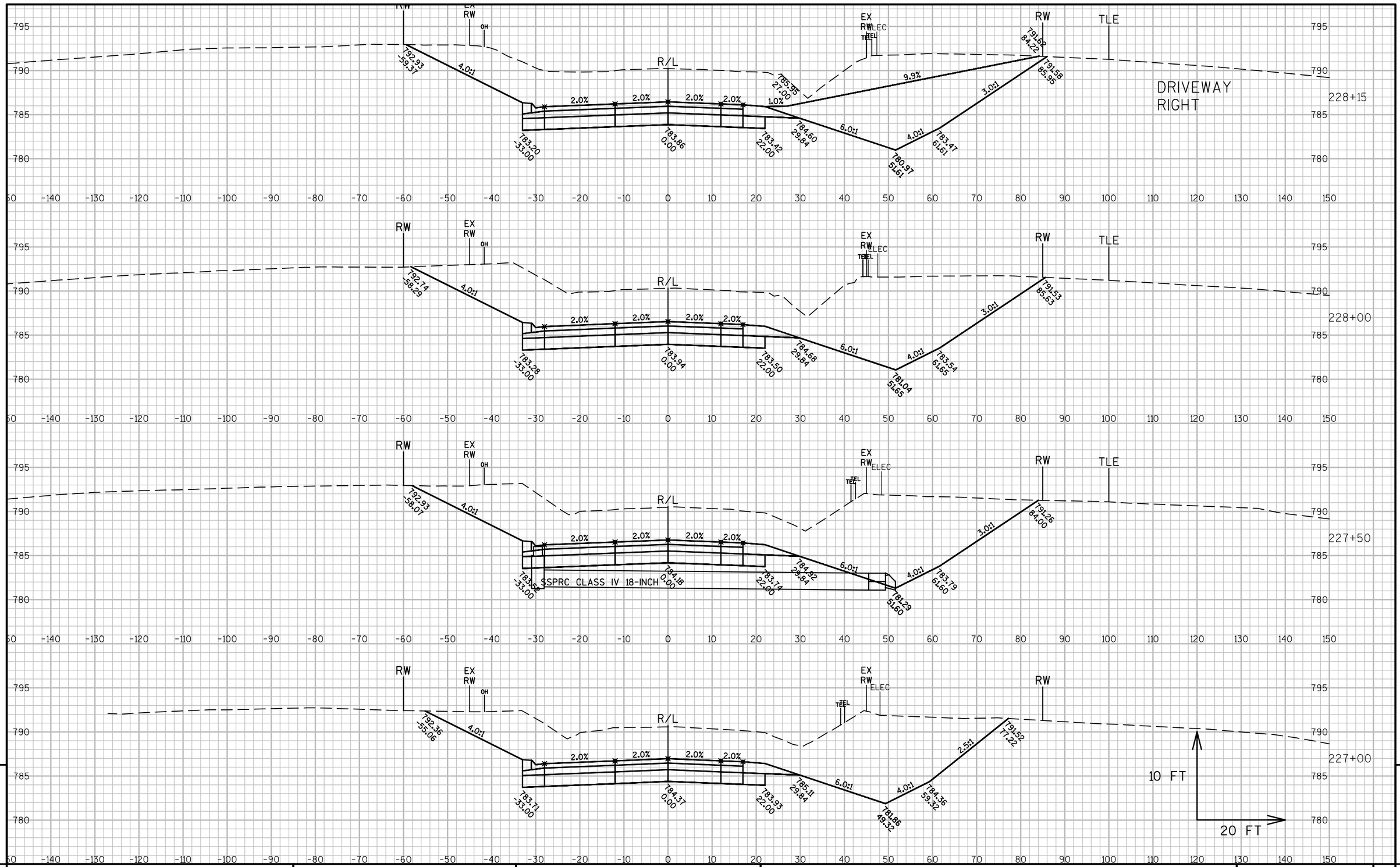
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 574	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (7)

PLOT DATE : 11/30/2016 11:52 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



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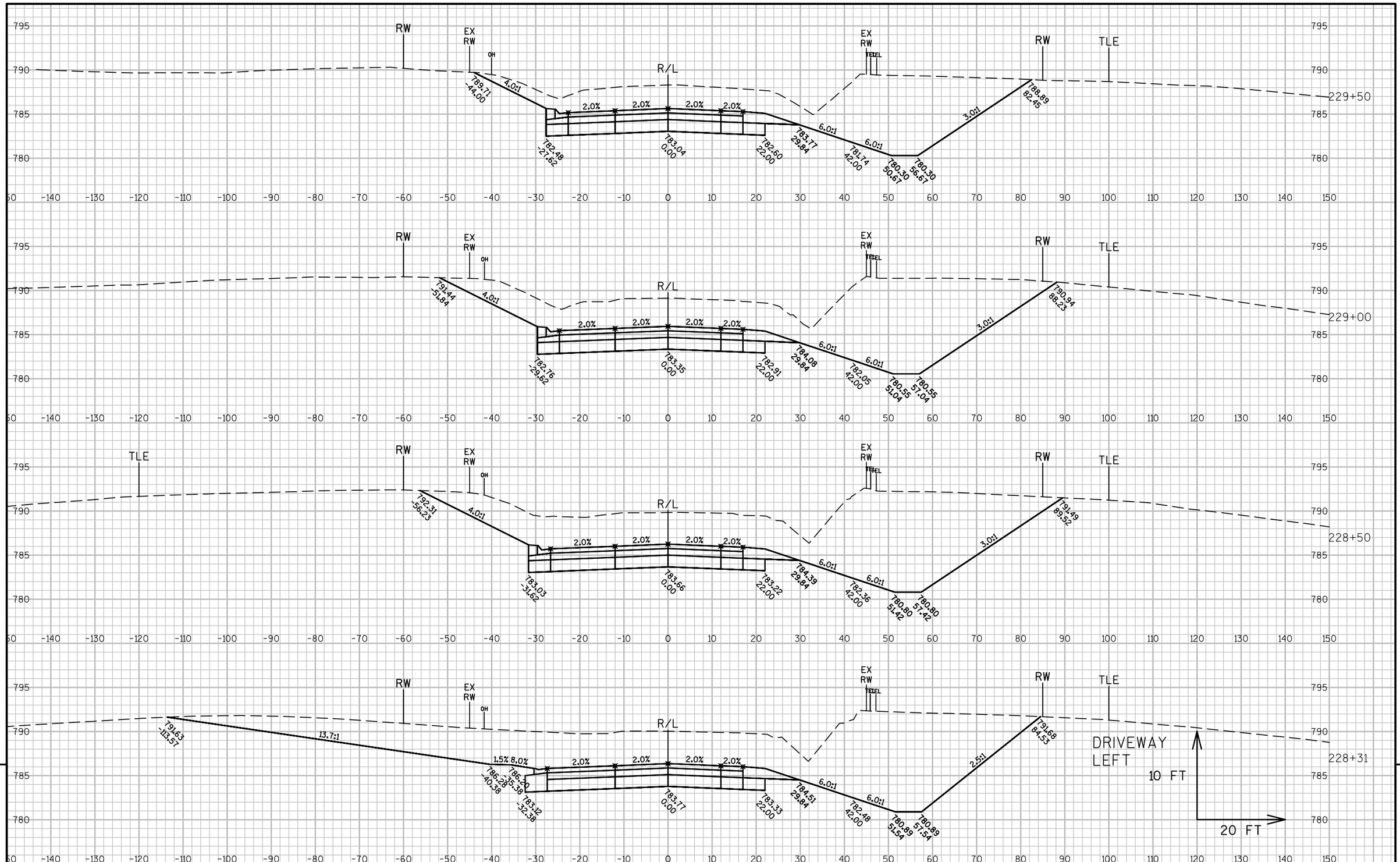
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 575	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (8)

PLOT DATE : 11/30/2016 11:52 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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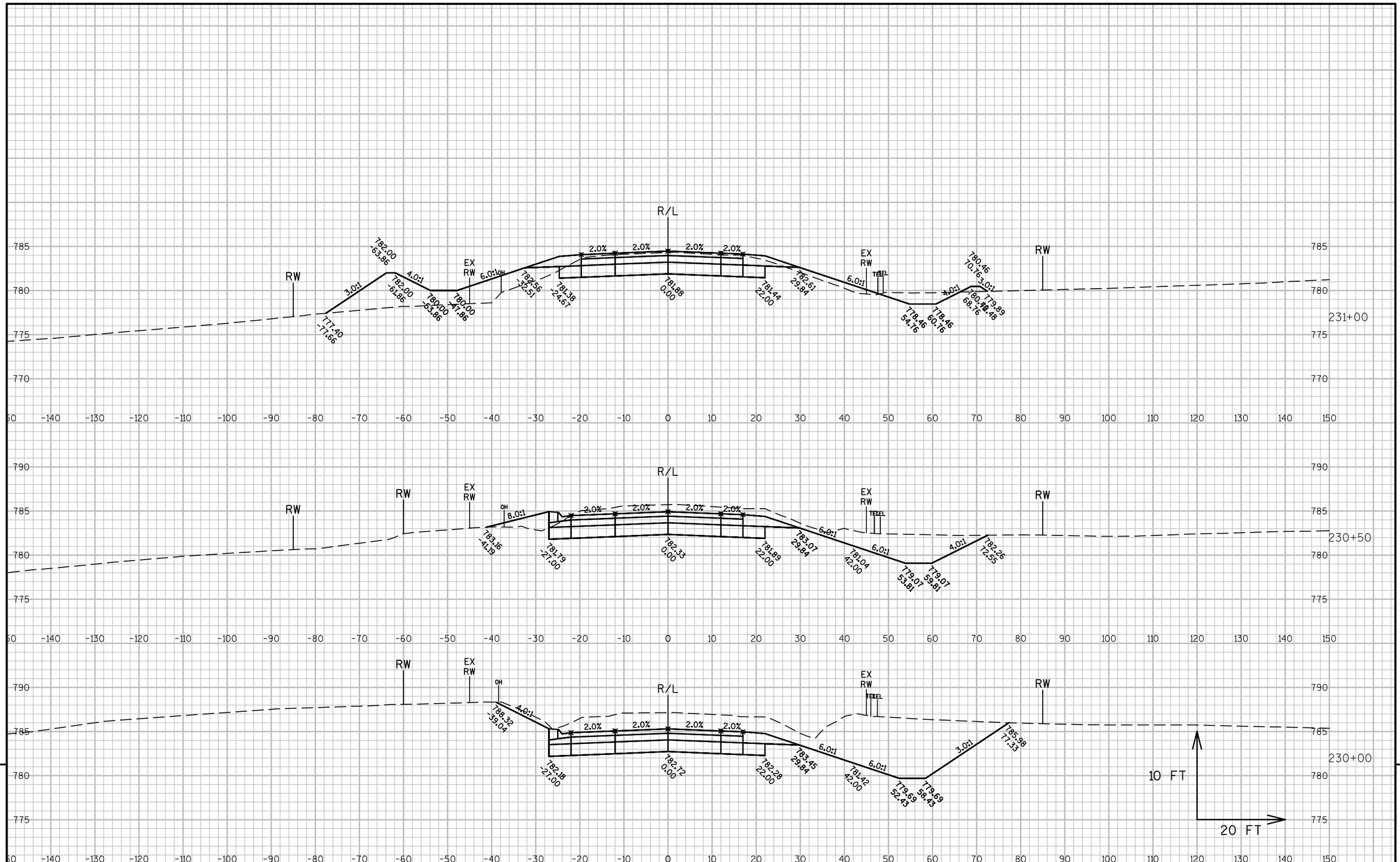
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 576	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (9)
PLOT DATE : 11/30/2016 11:53 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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PROJECT NO: 2430-06-70 | HWY: USH 45 | COUNTY: RACINE | CROSS SECTIONS: USH 45 | SHEET 577 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (10)
PLOT DATE : 11/30/2016 11:53 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

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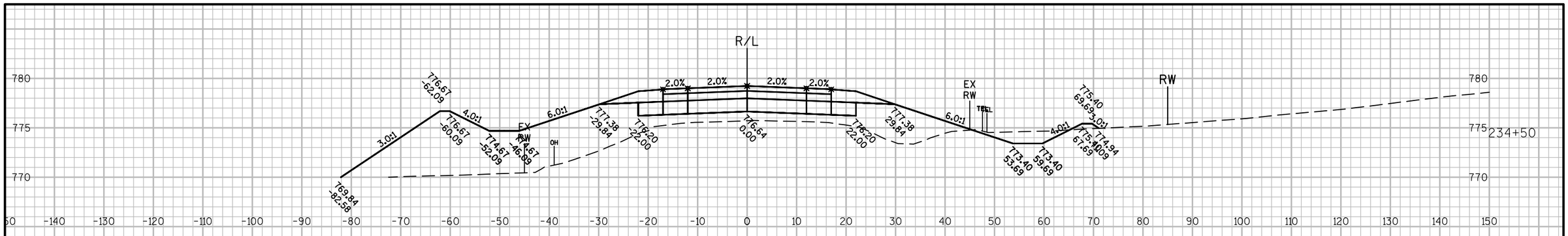
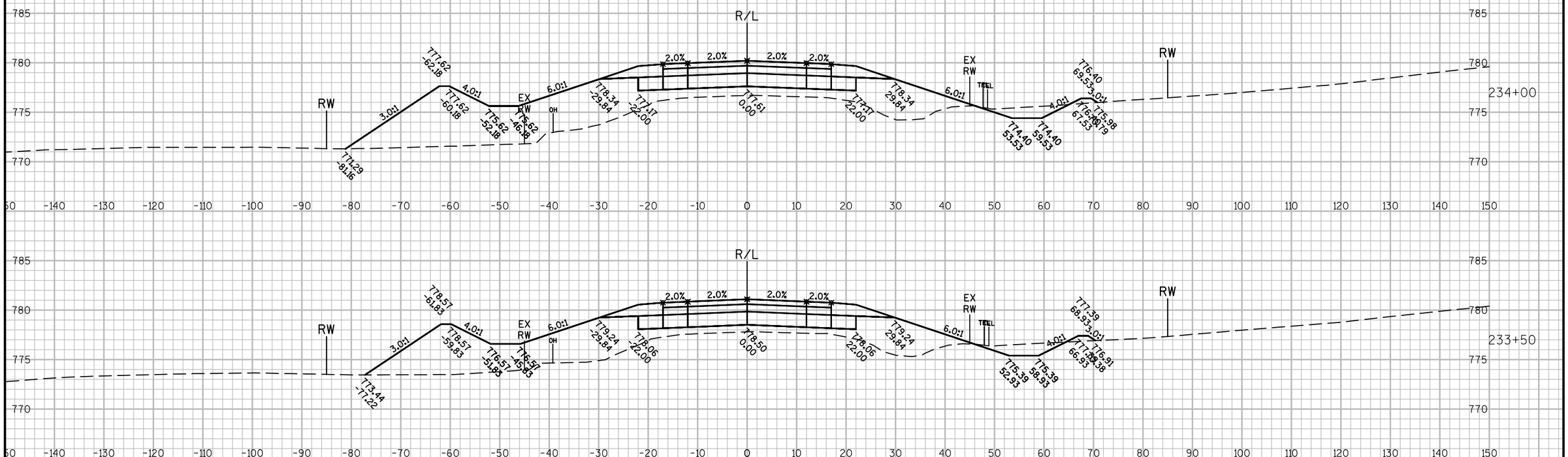
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 578	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (11)
PLOT DATE : 11/30/2016 11:53 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT





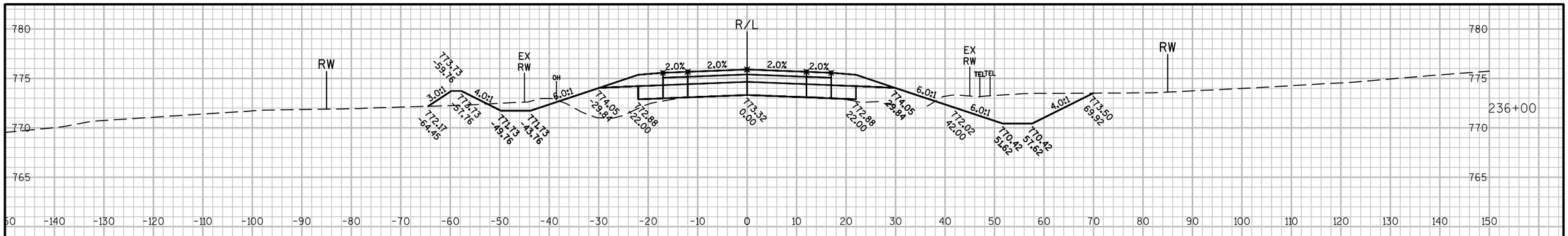
9

9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 579	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (12)

PLOT DATE : 11/30/2016 11:53 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

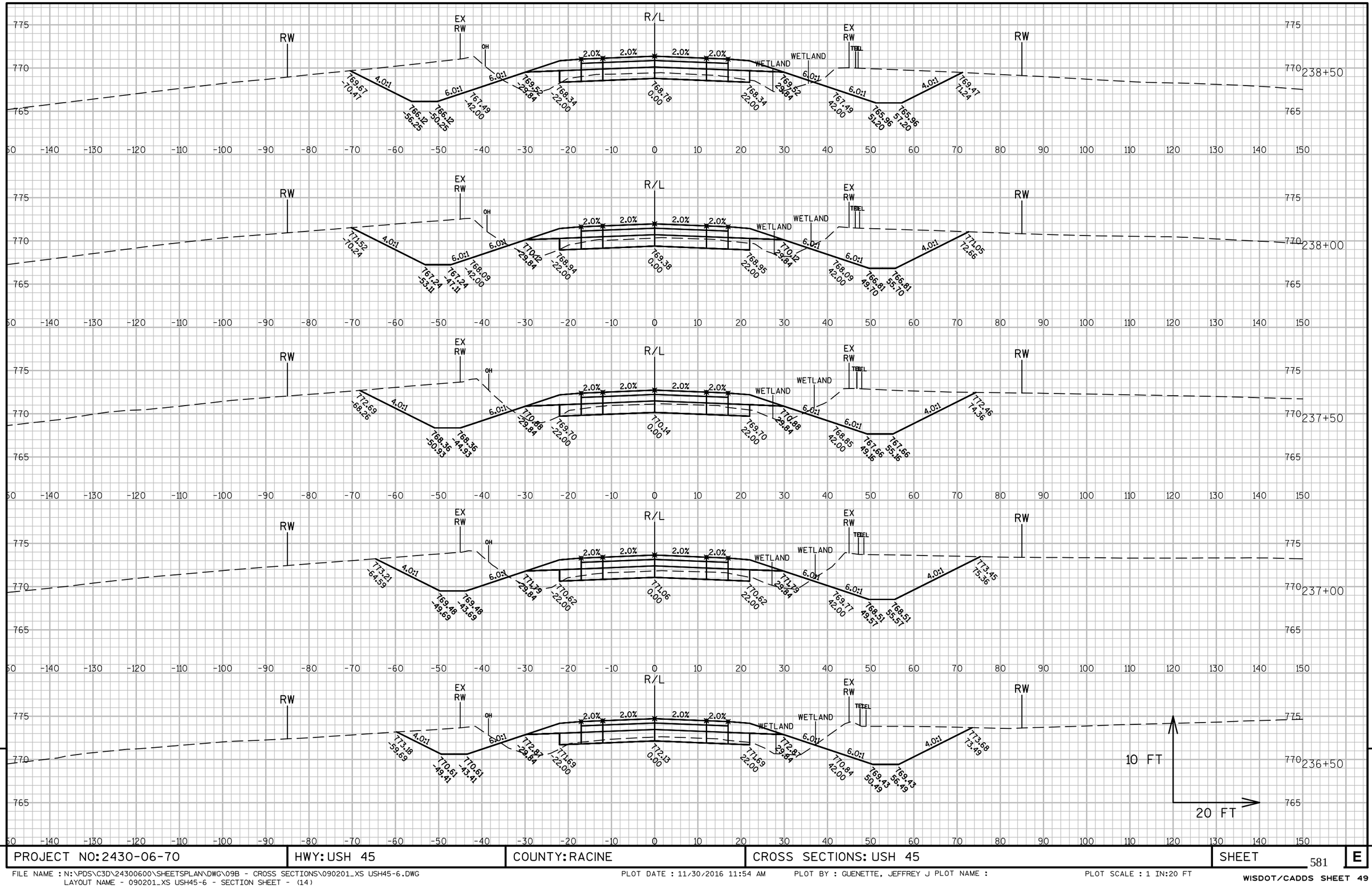


PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 580 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (13)

PLOT DATE : 11/30/2016 11:54 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



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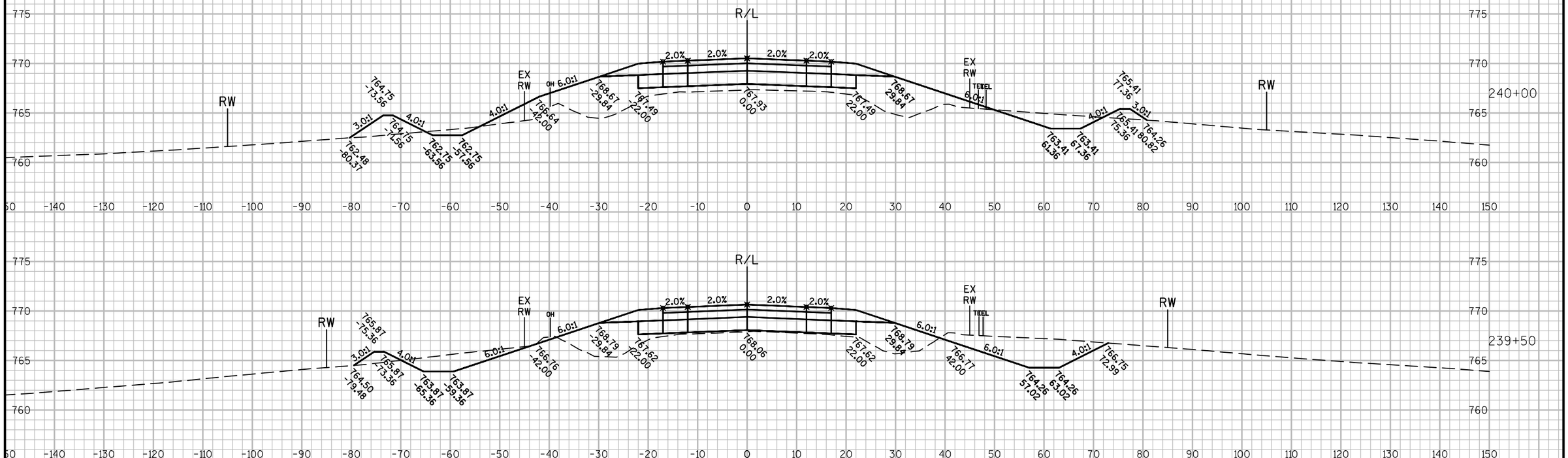
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 581	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (14)
PLOT DATE : 11/30/2016 11:54 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



9

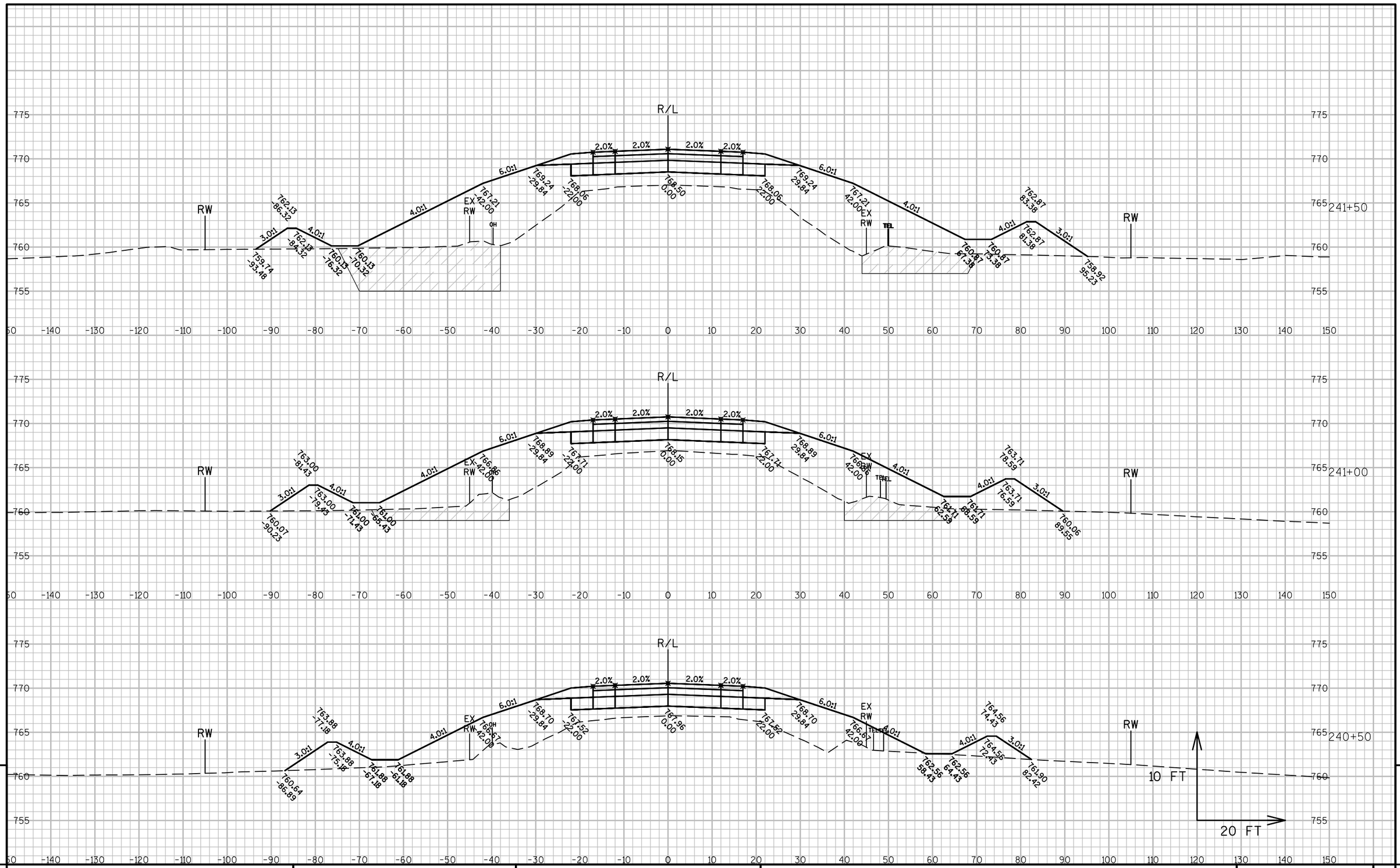
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 582	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (15)

PLOT DATE : 11/30/2016 11:54 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



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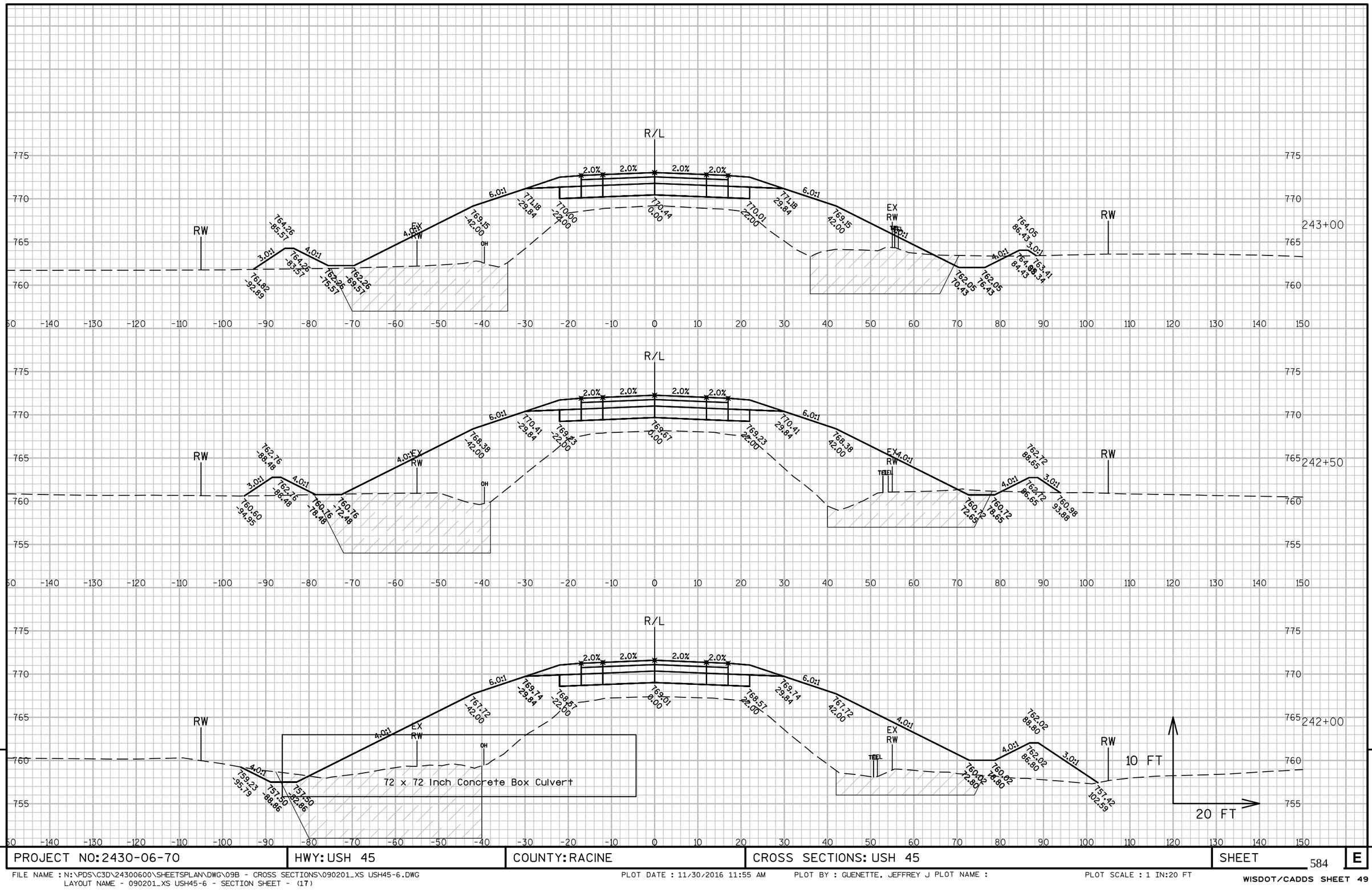
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 583	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (16)

PLOT DATE : 11/30/2016 11:55 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT



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9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 584	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (17)

PLOT DATE : 11/30/2016 11:55 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

9

9

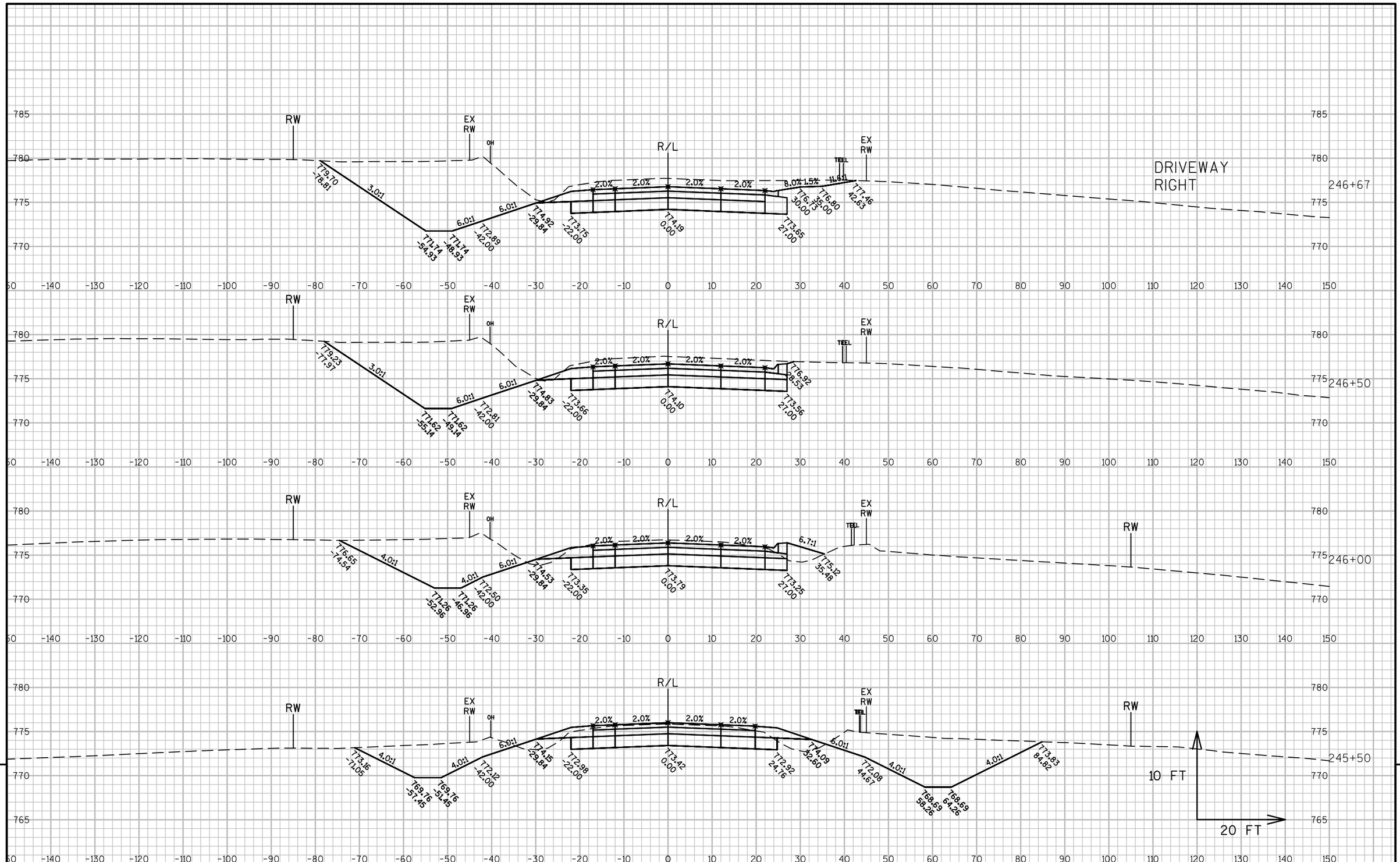
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 585	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (18)

PLOT DATE : 11/30/2016 11:55 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9 9

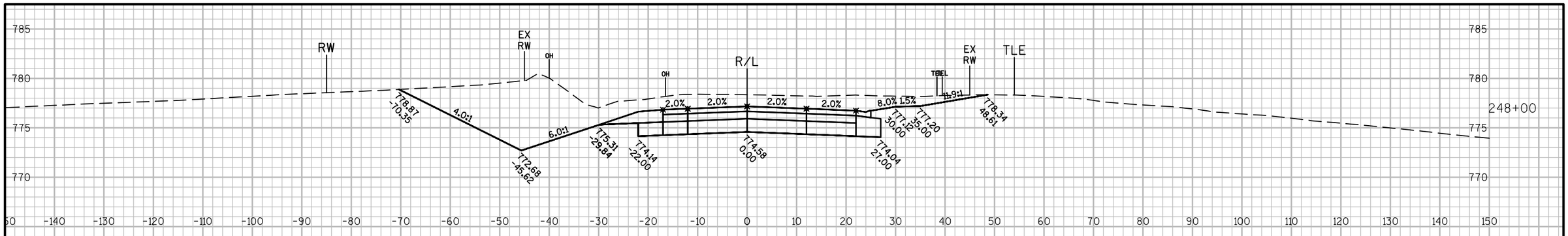
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 586	E

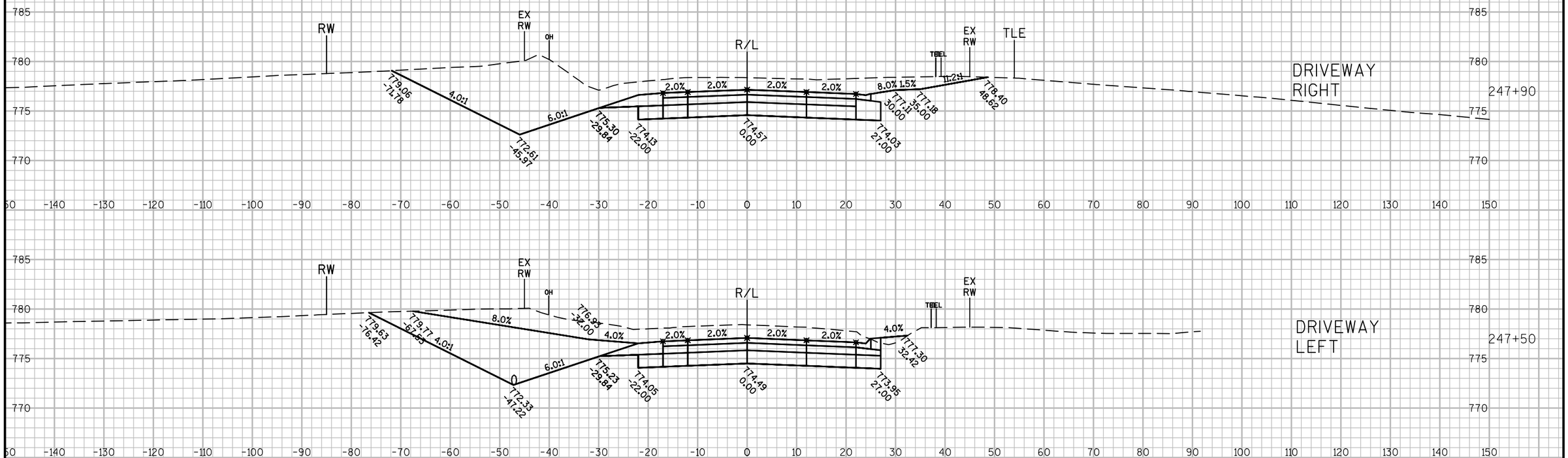
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (19)

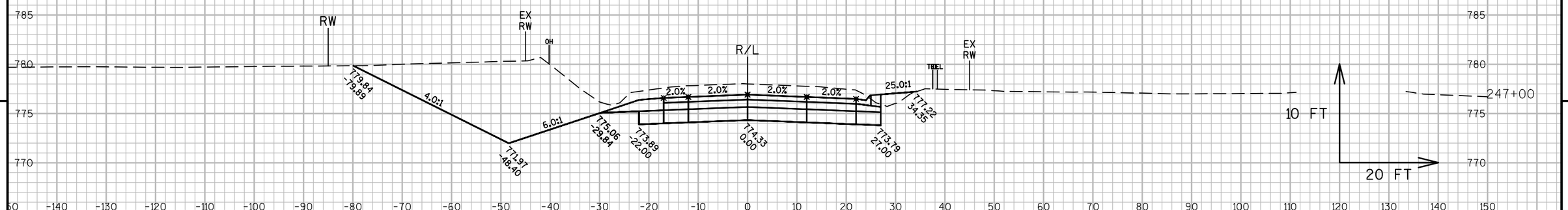
PLOT DATE : 11/30/2016 11:55 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







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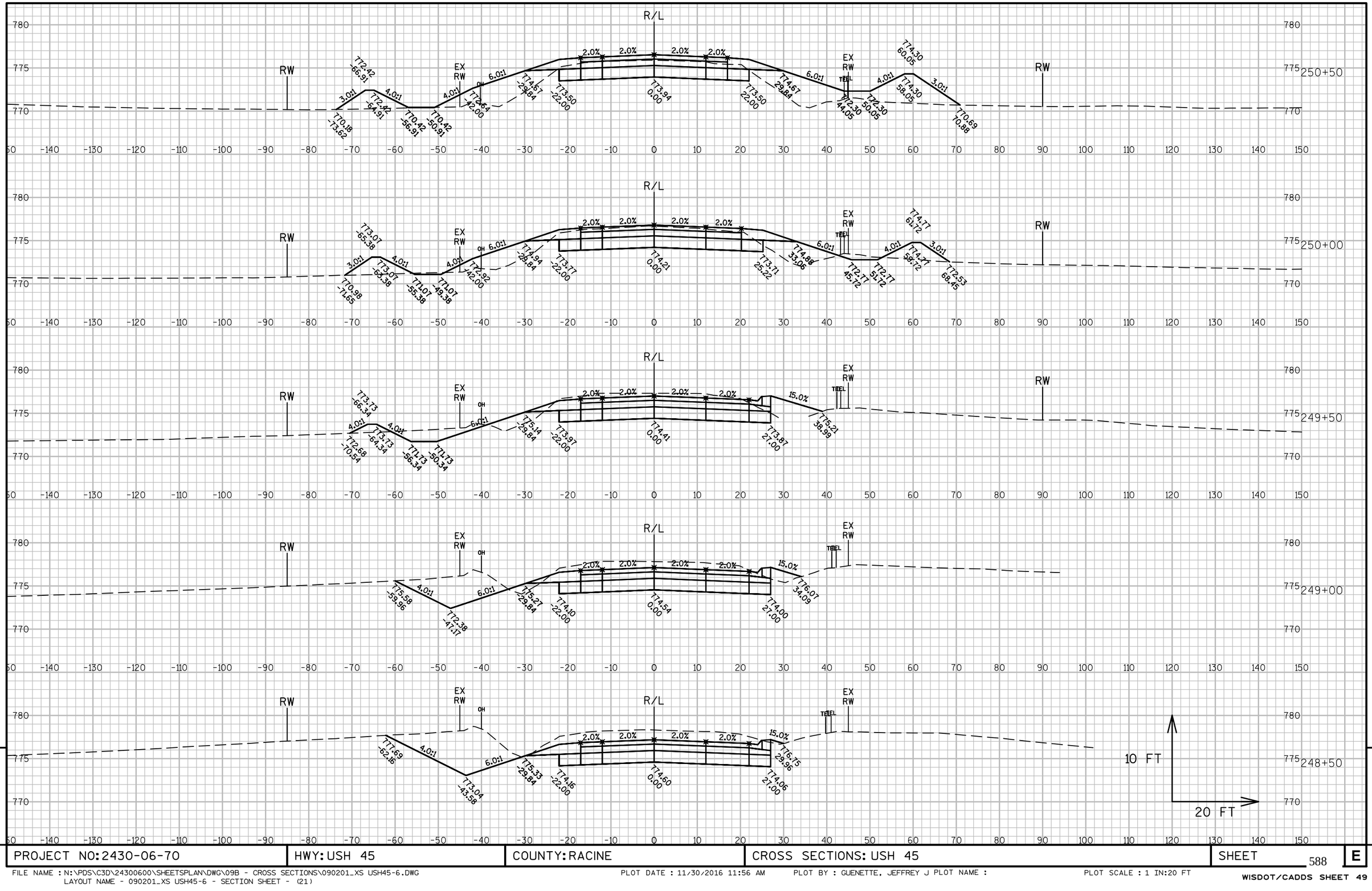
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 587	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (20)

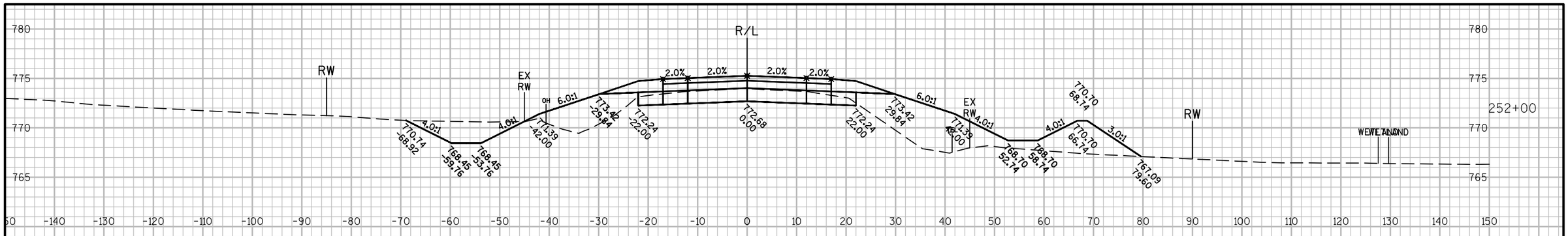
PLOT DATE : 11/30/2016 11:56 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

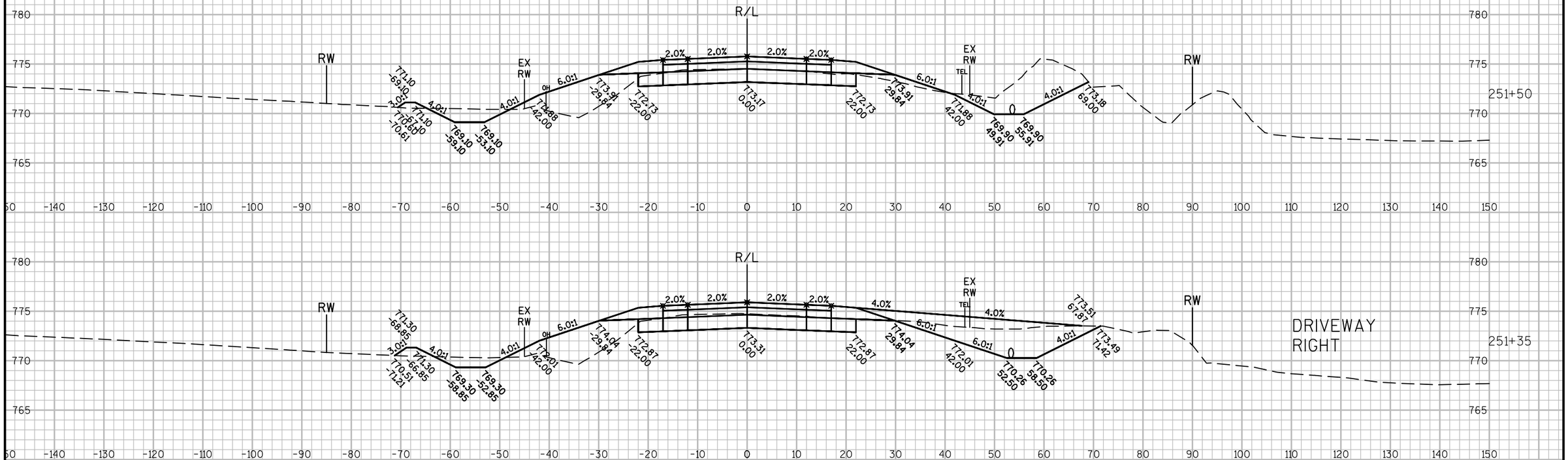
PLOT SCALE : 1 IN:20 FT

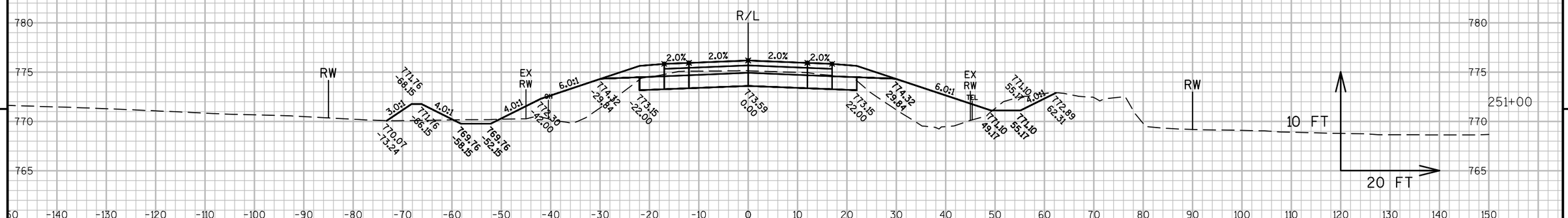


PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 588	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (21)
PLOT DATE : 11/30/2016 11:56 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49







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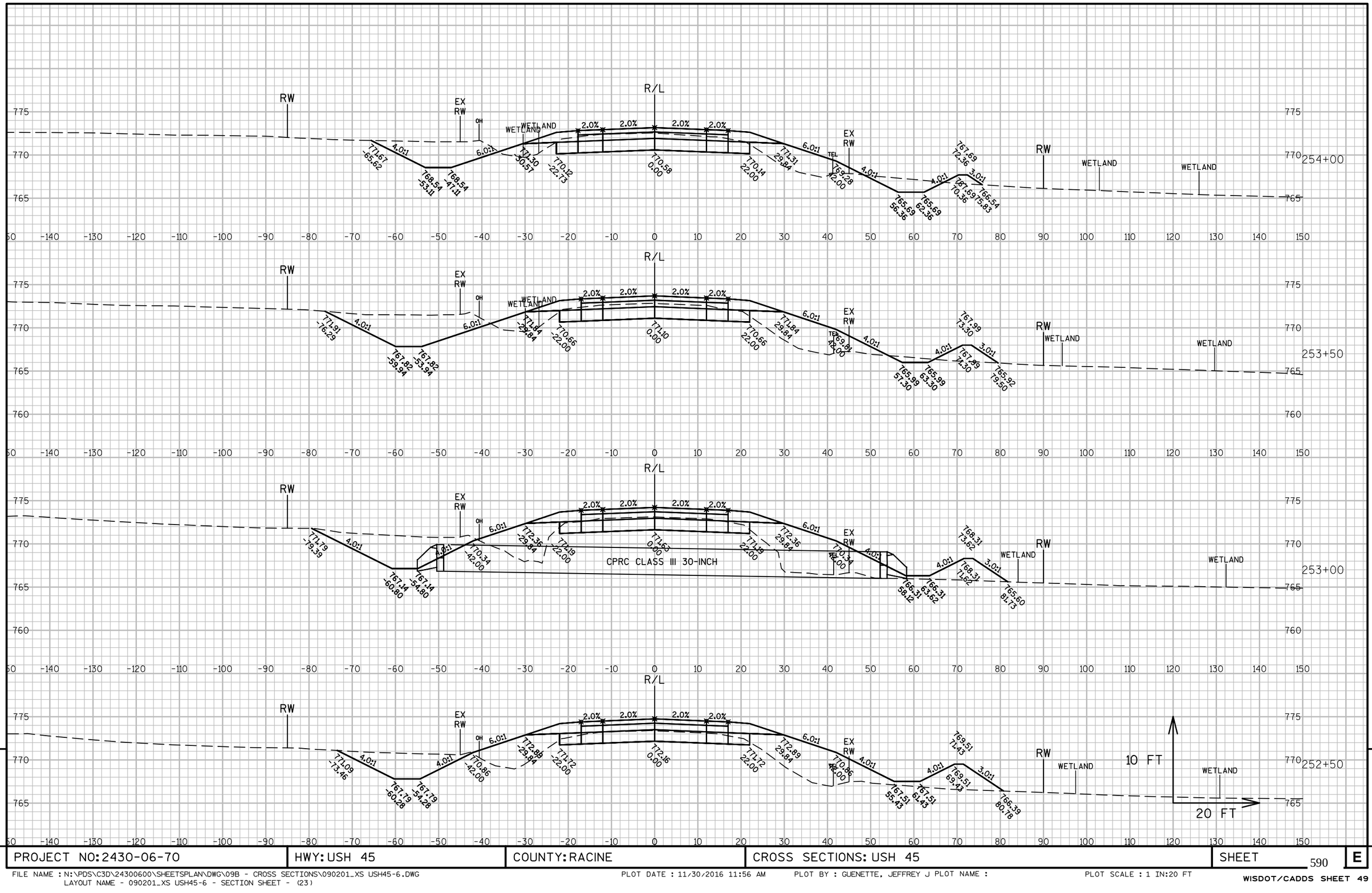
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 589 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (22)

PLOT DATE : 11/30/2016 11:56 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



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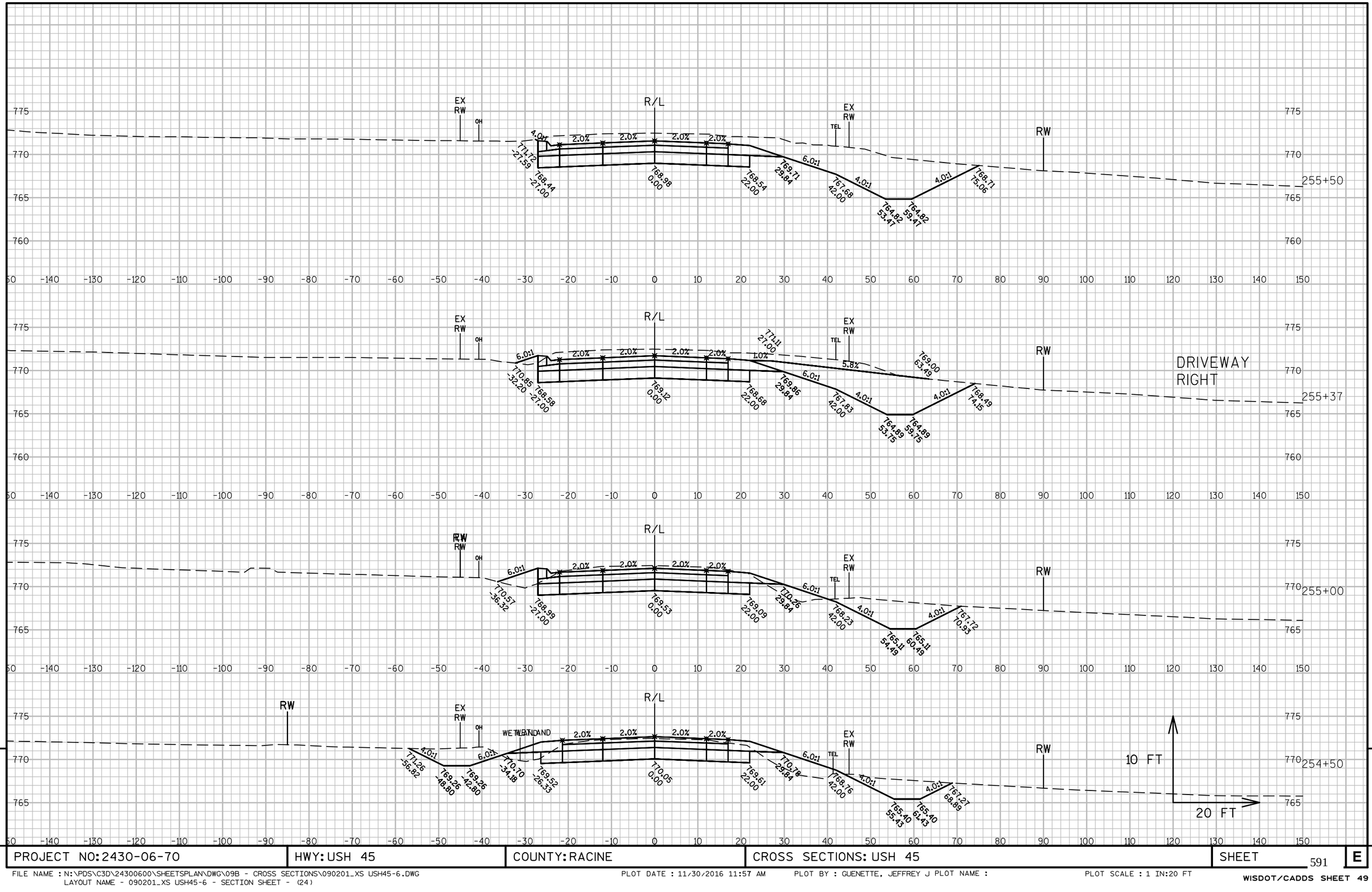
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 590 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (23)

PLOT DATE : 11/30/2016 11:56 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



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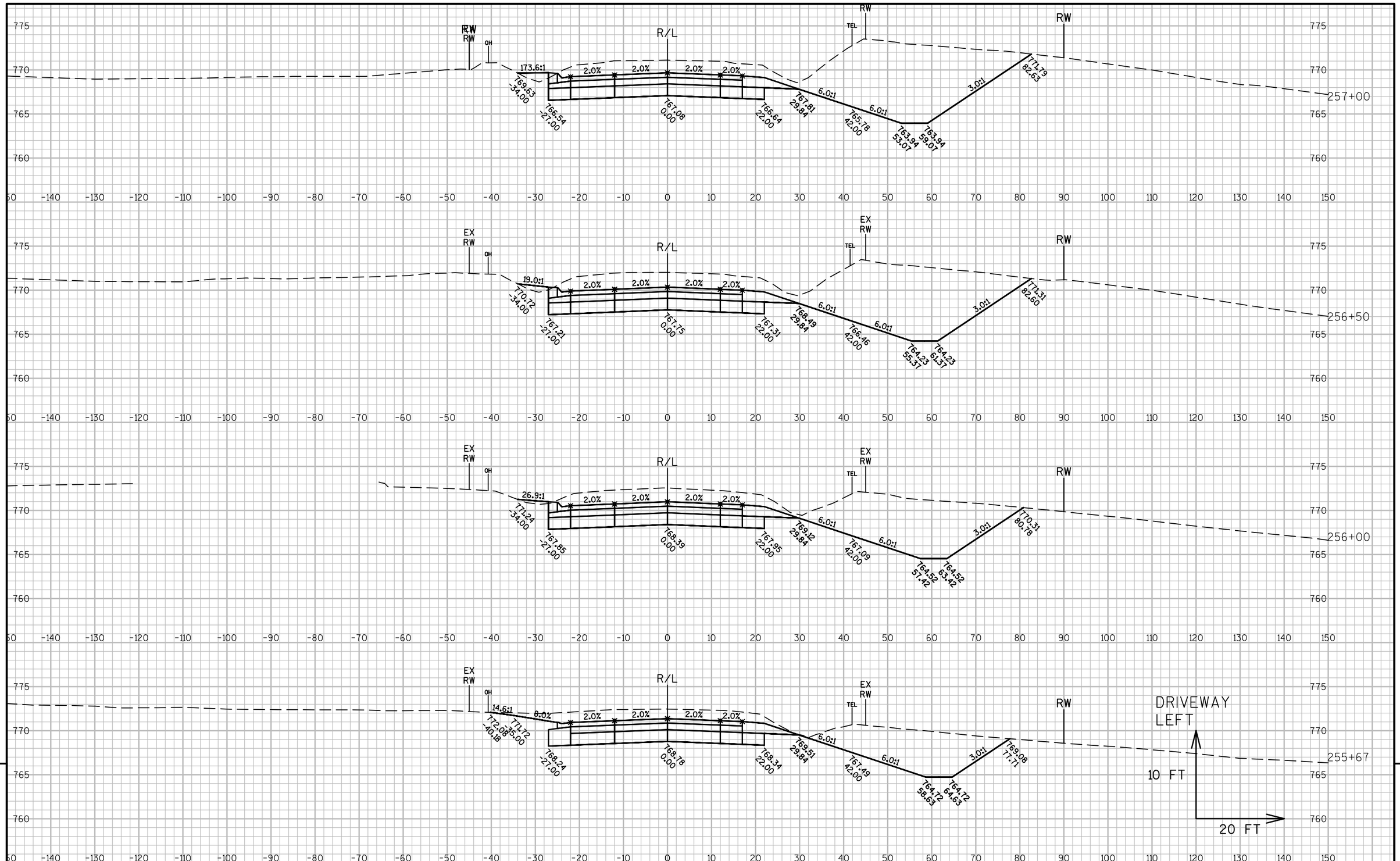
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 591	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (24)
PLOT DATE : 11/30/2016 11:57 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



9

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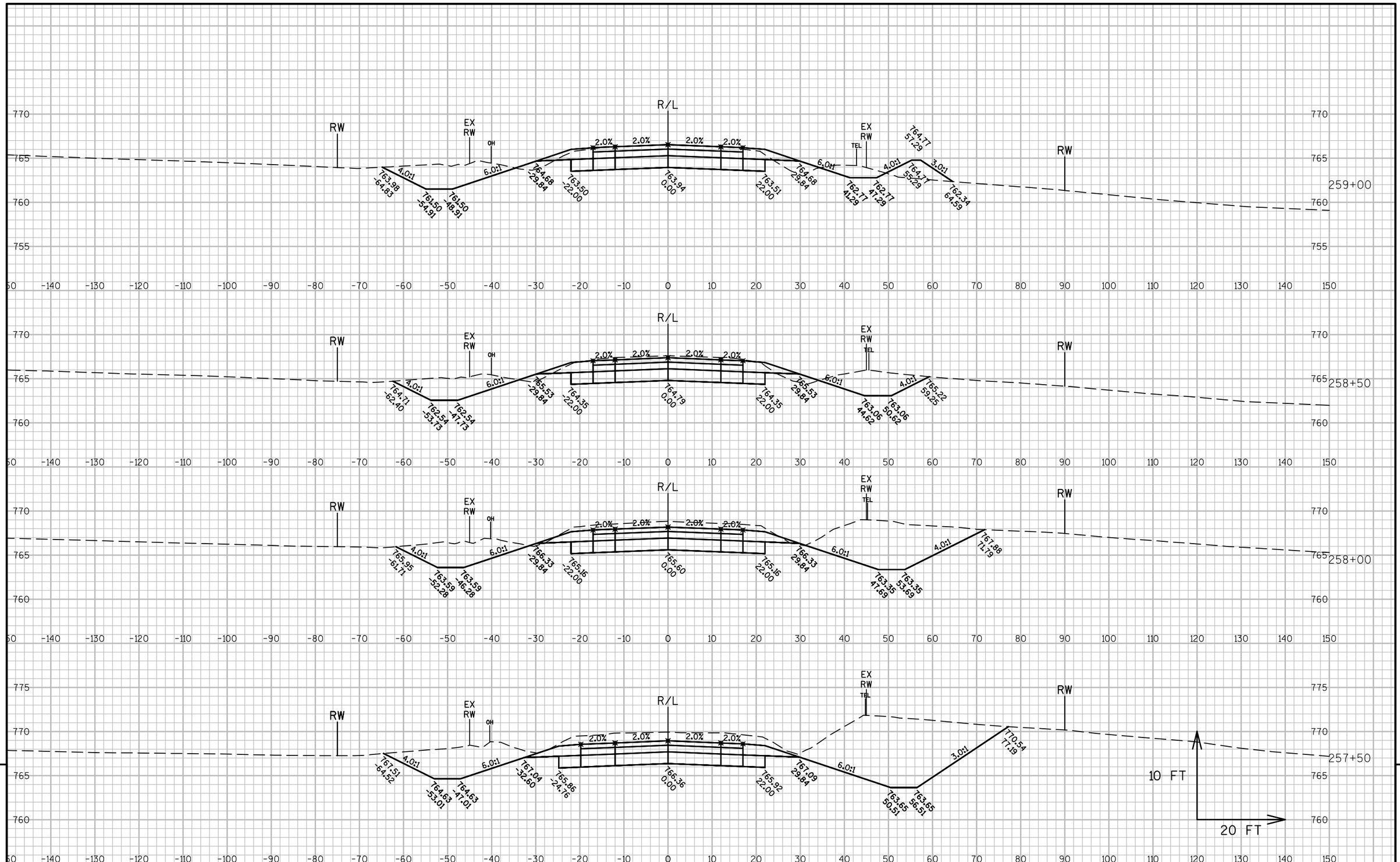
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 592 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (25)

PLOT DATE : 11/30/2016 11:57 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT



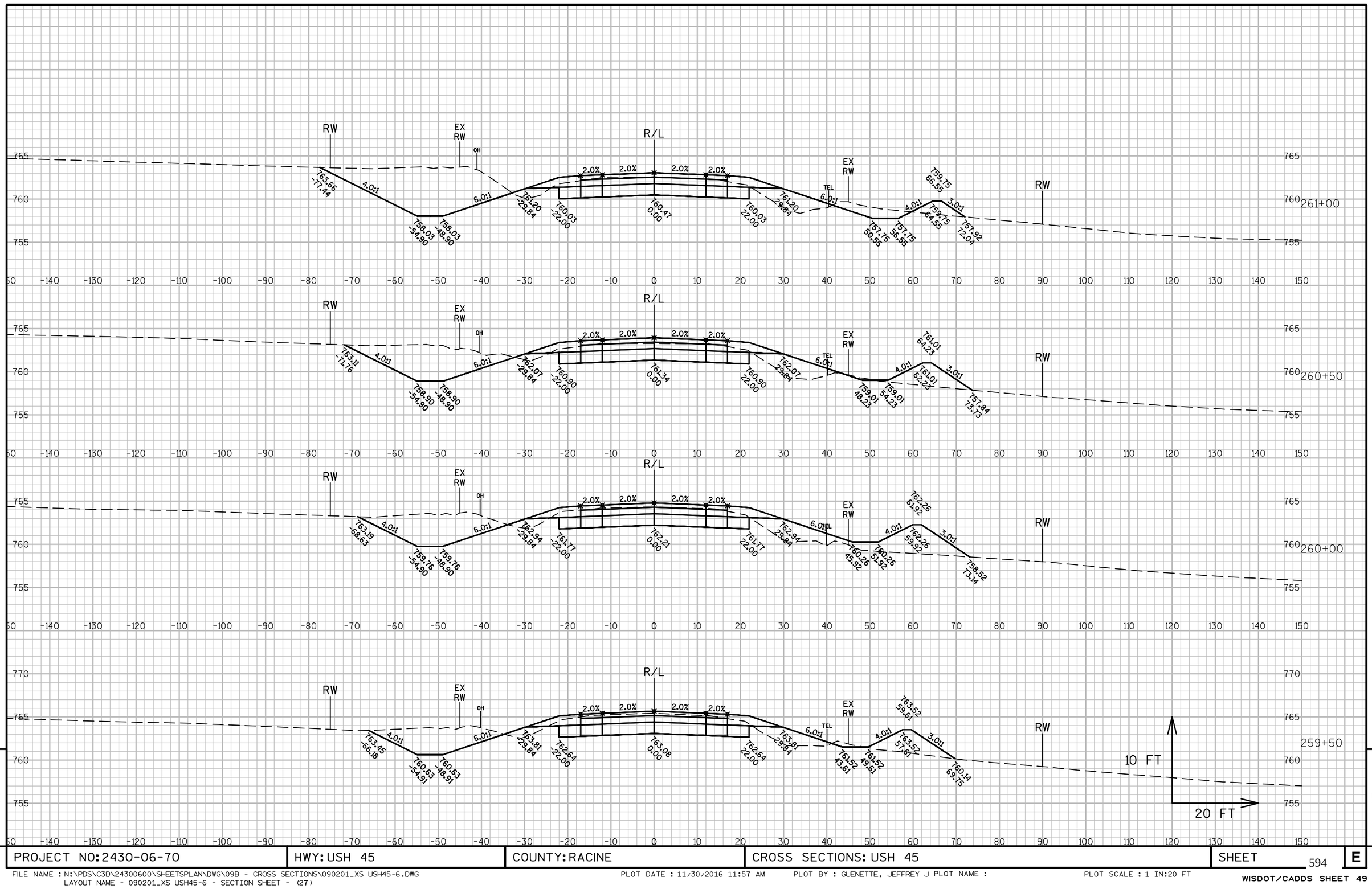
9

9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 593 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (26)

PLOT DATE : 11/30/2016 11:57 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT



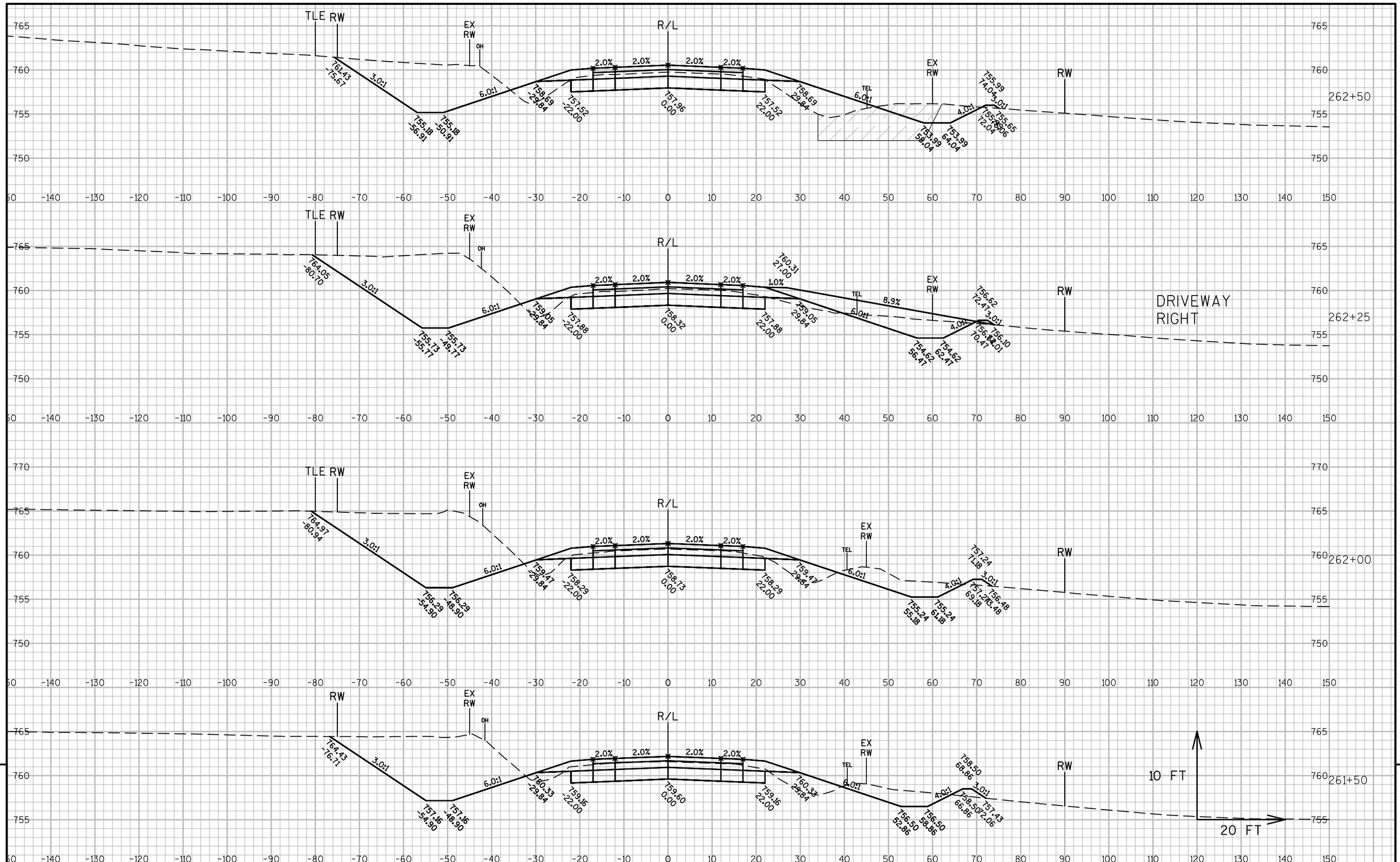
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 594 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (27)

PLOT DATE : 11/30/2016 11:57 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

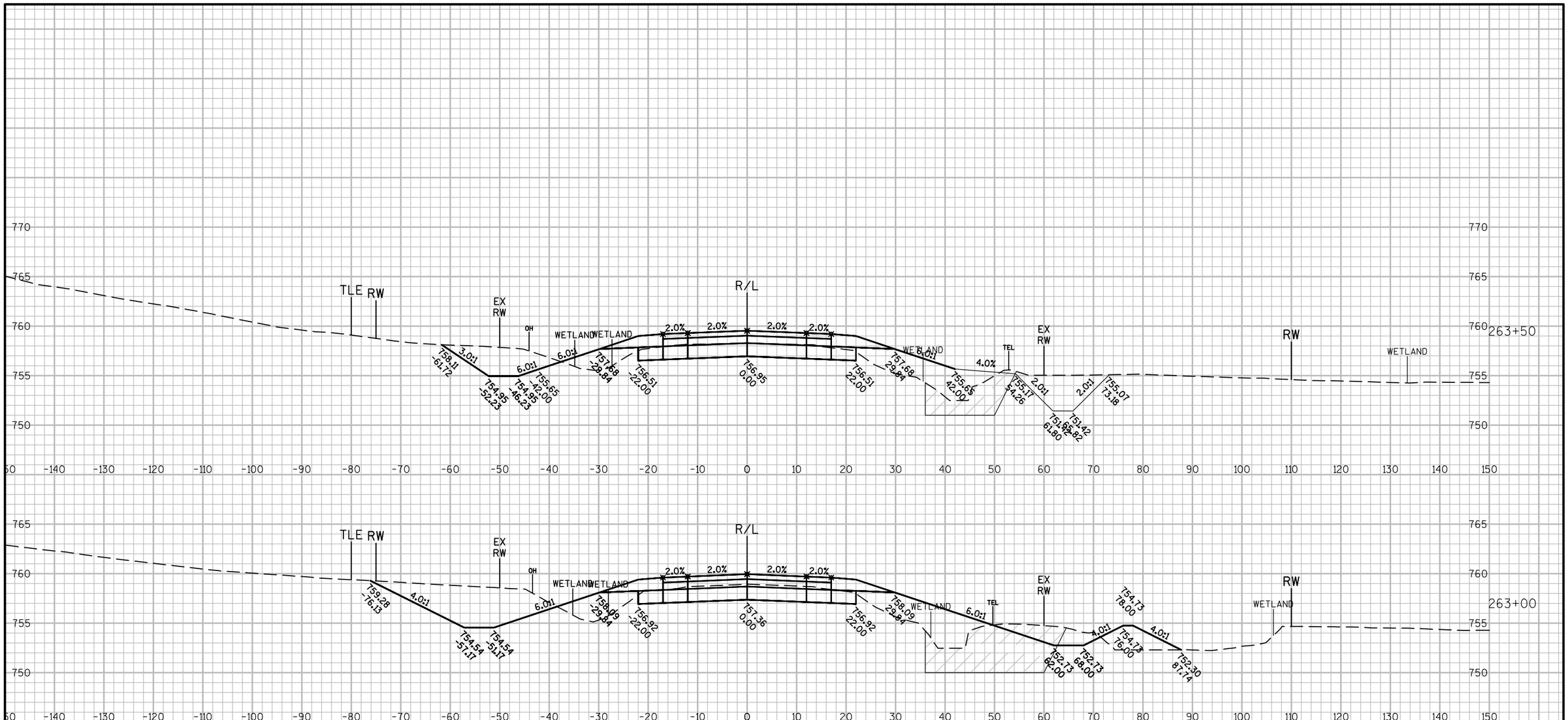
WISDOT/CADDS SHEET 49



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 595 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (28)

PLOT DATE : 11/30/2016 11:57 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

9

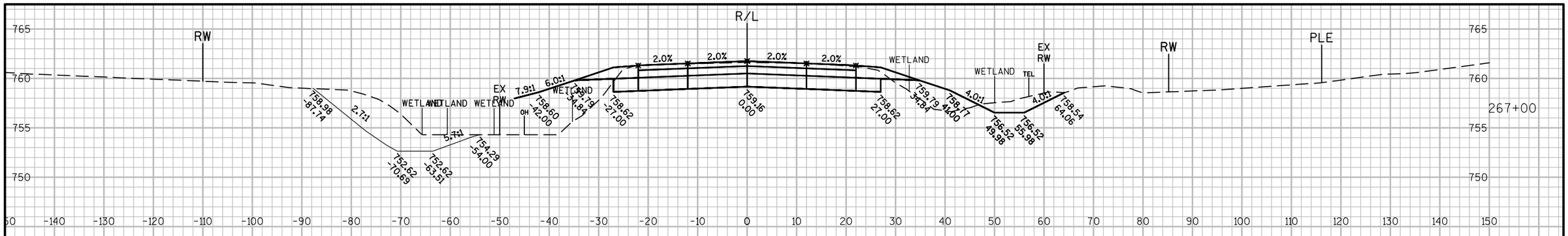
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 596	E

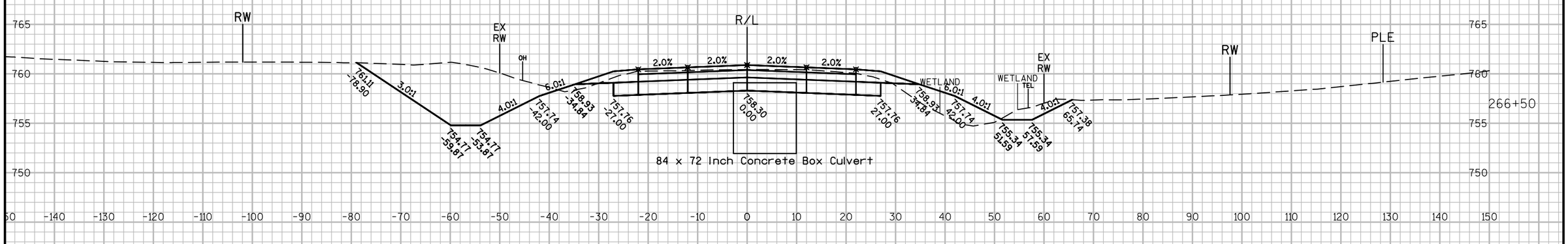
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (29)
PLOT DATE : 11/30/2016 11:58 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

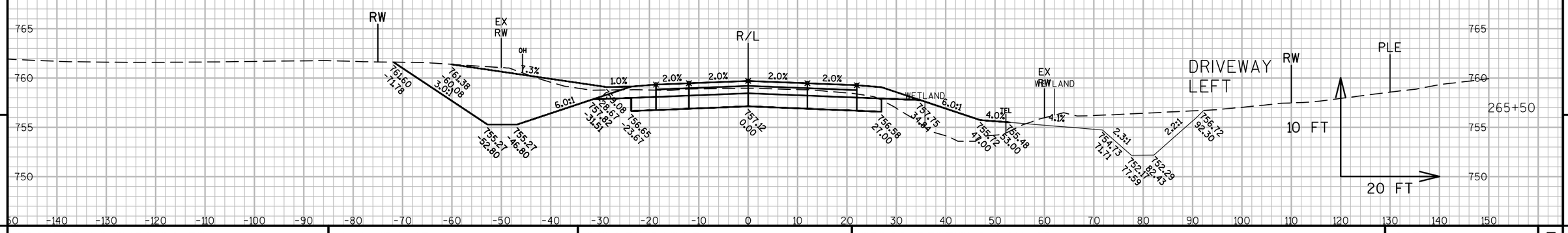
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 597	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (30)

PLOT DATE : 11/30/2016 11:58 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT







9 9

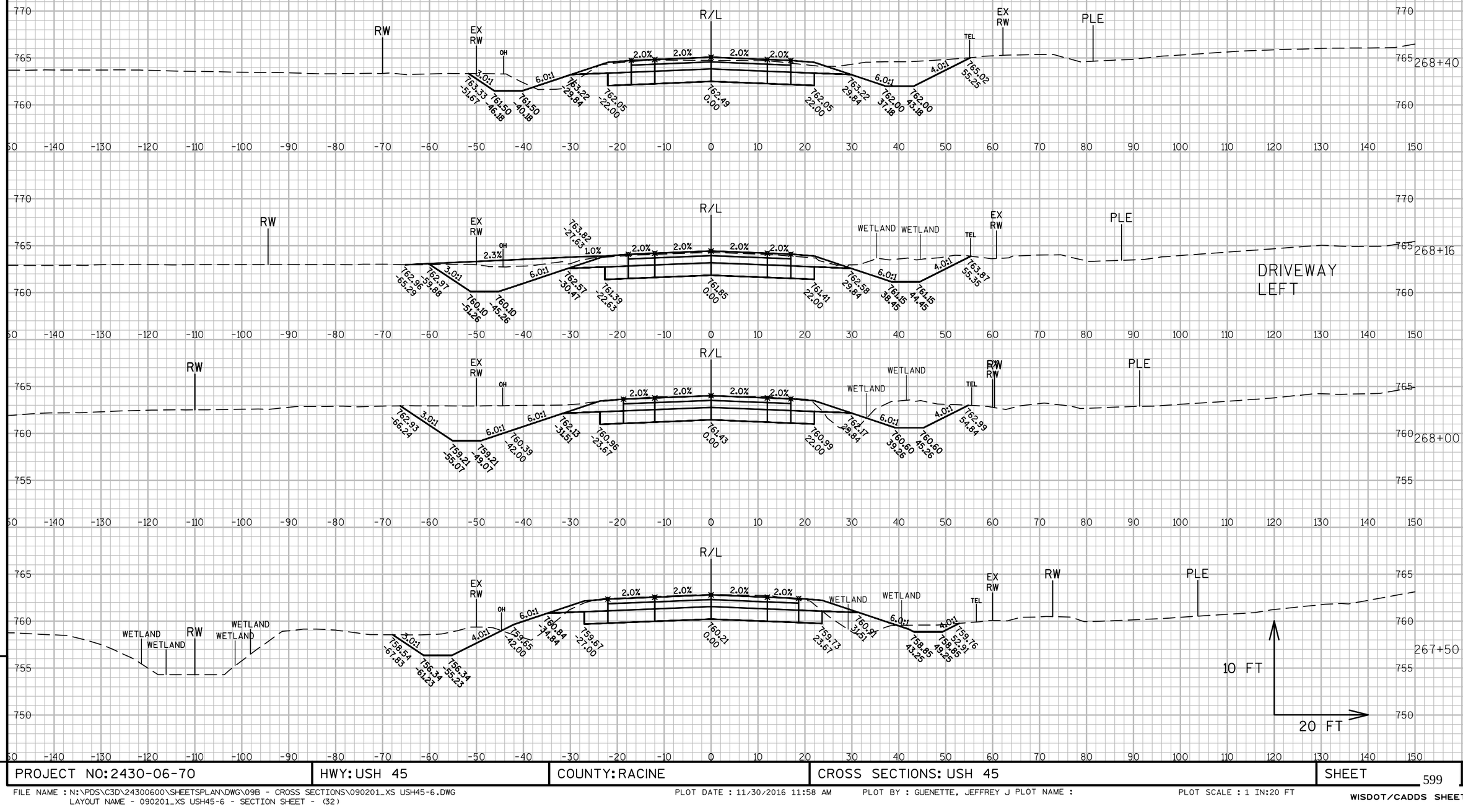
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 598 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (31)

PLOT DATE : 11/30/2016 11:58 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

END RECONSTRUCTION

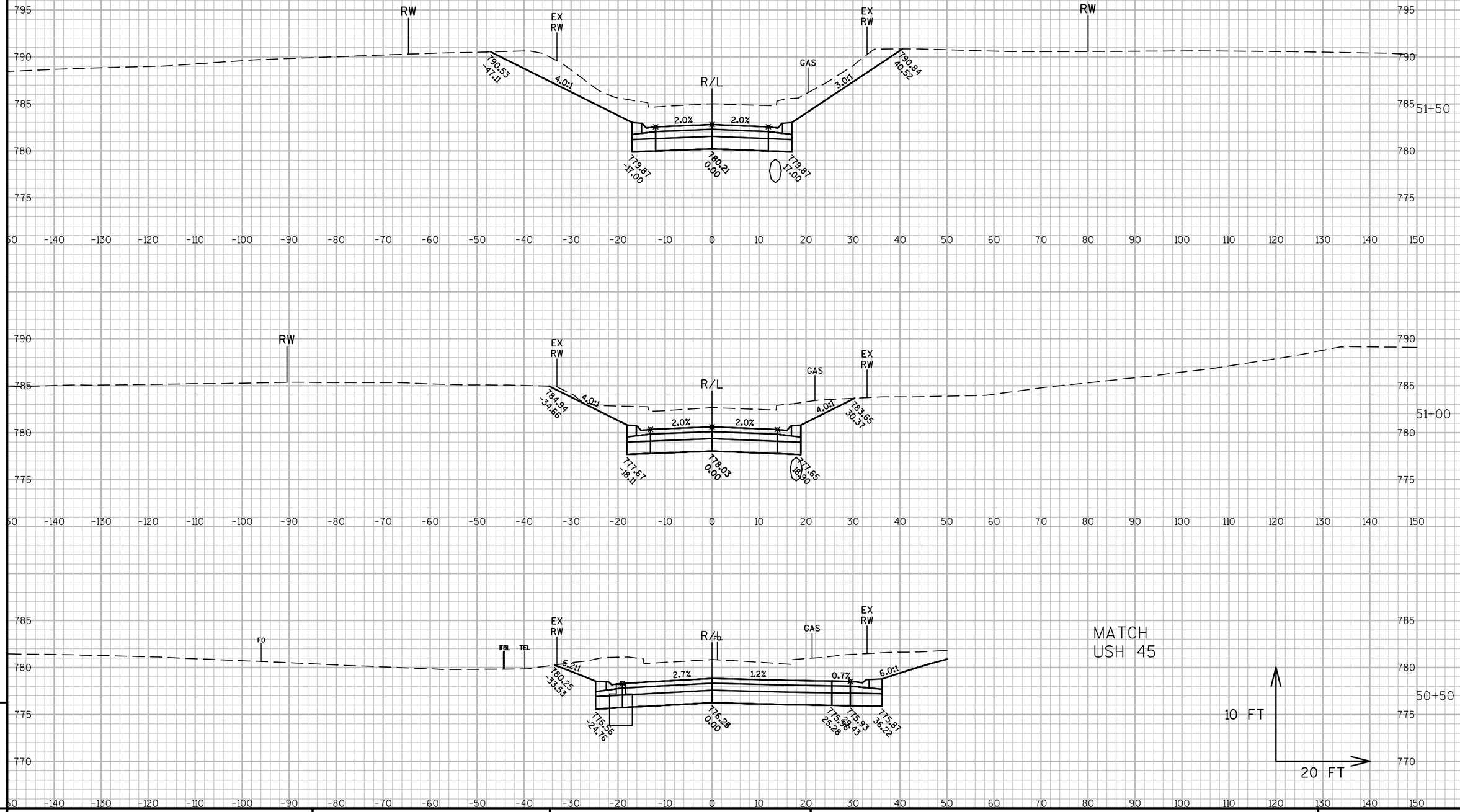


PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: USH 45	SHEET 599	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS USH45-6.DWG
LAYOUT NAME - 090201_XS USH45-6 - SECTION SHEET - (32)

PLOT DATE : 11/30/2016 11:58 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

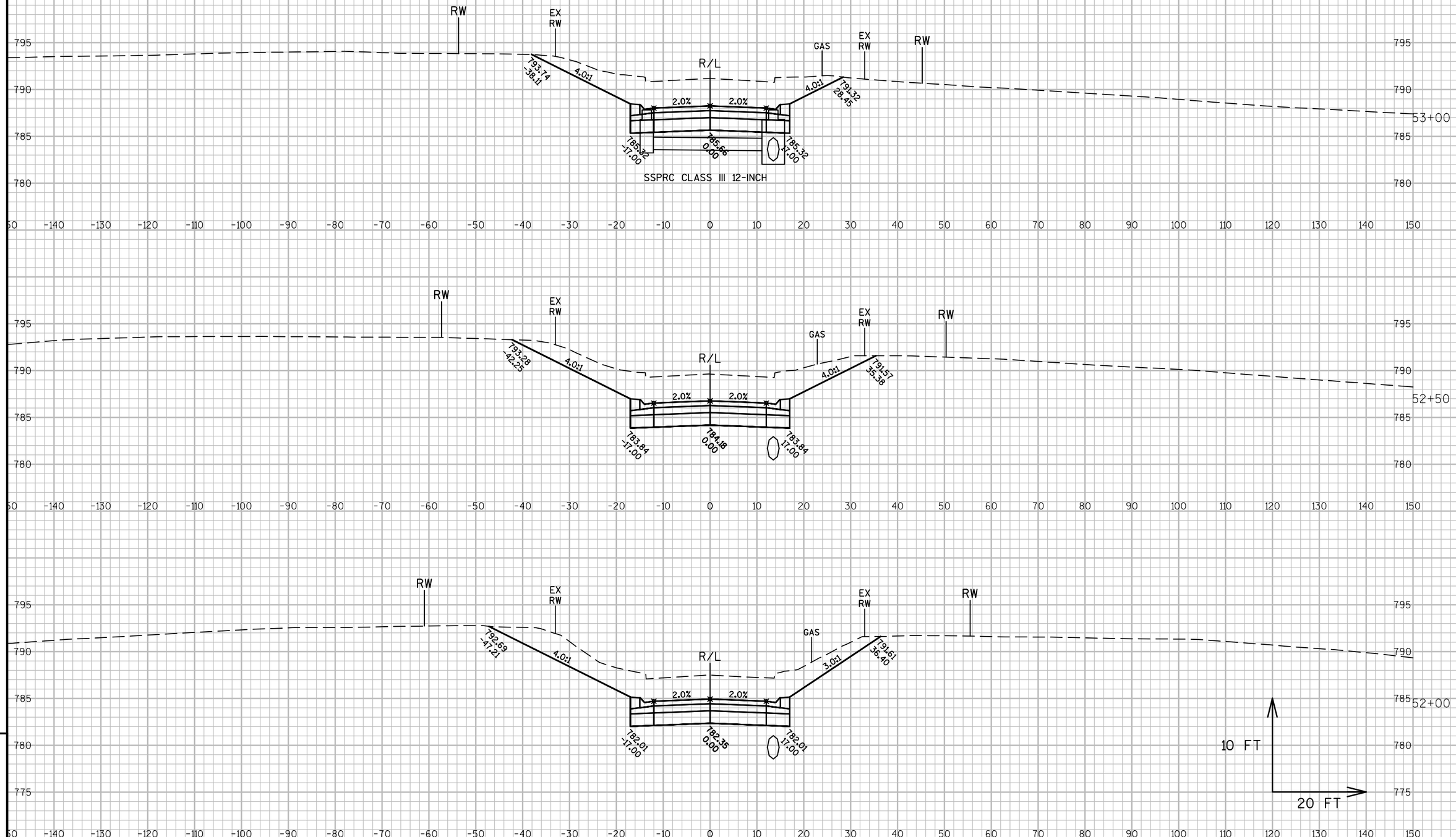


PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: 58TH RD	SHEET 600	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS 58TH RD.DWG
LAYOUT NAME - SECTION SHEET - (94)

PLOT DATE : 11/30/2016 10:06 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



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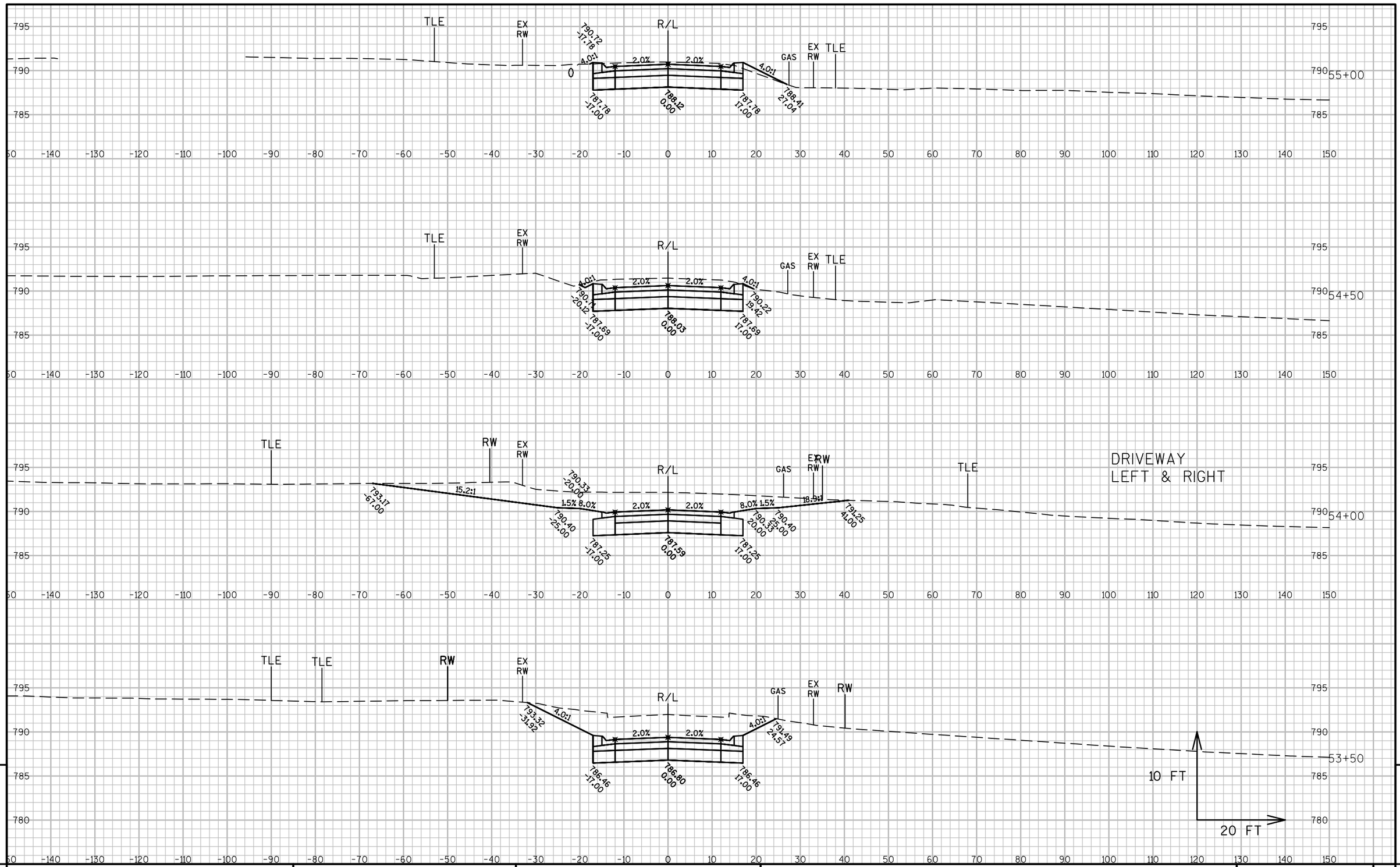
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: 58TH RD	SHEET 601 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS 58TH RD.DWG
LAYOUT NAME - SECTION SHEET - (95)
PLOT DATE : 11/30/2016 10:06 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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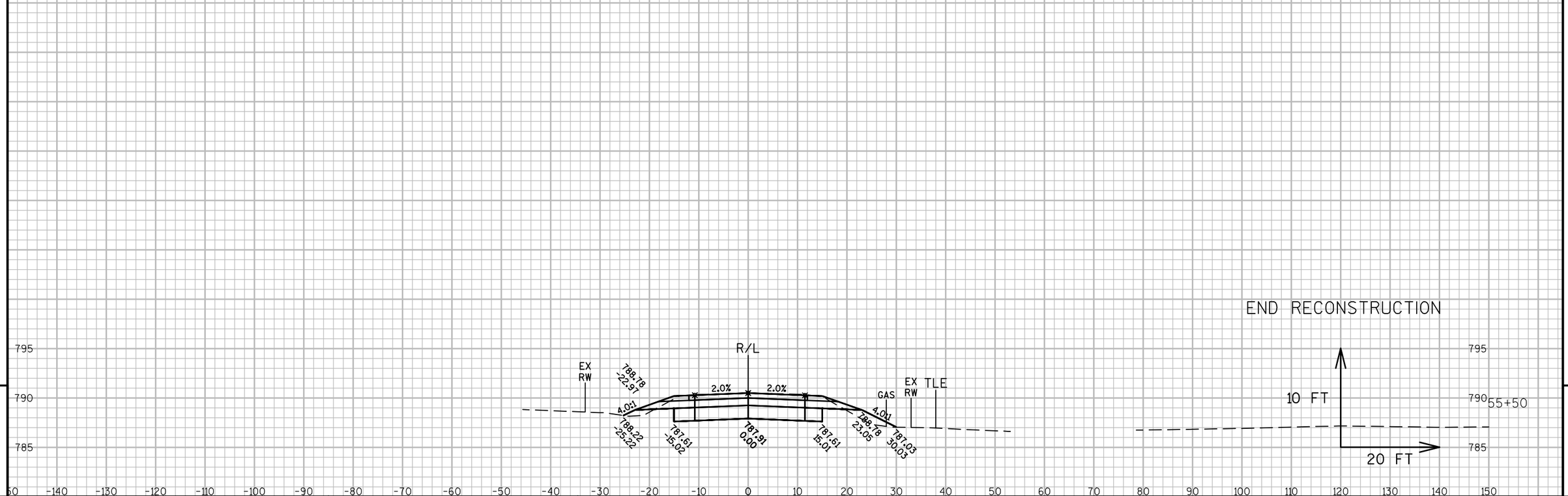
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: 58TH RD	SHEET 602	E

9

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS 58TH RD.DWG
LAYOUT NAME - SECTION SHEET - (96)
PLOT DATE : 11/30/2016 10:06 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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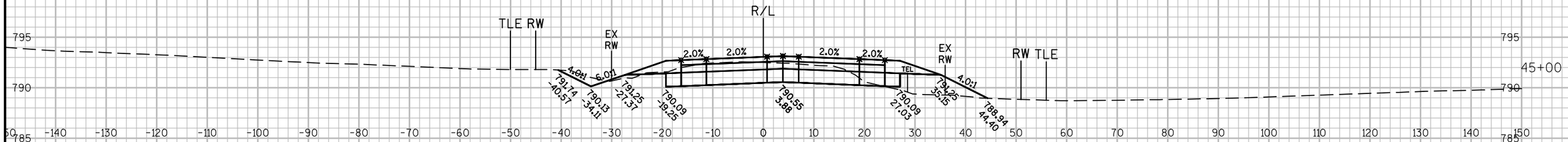
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: 58TH RD	SHEET 603	E

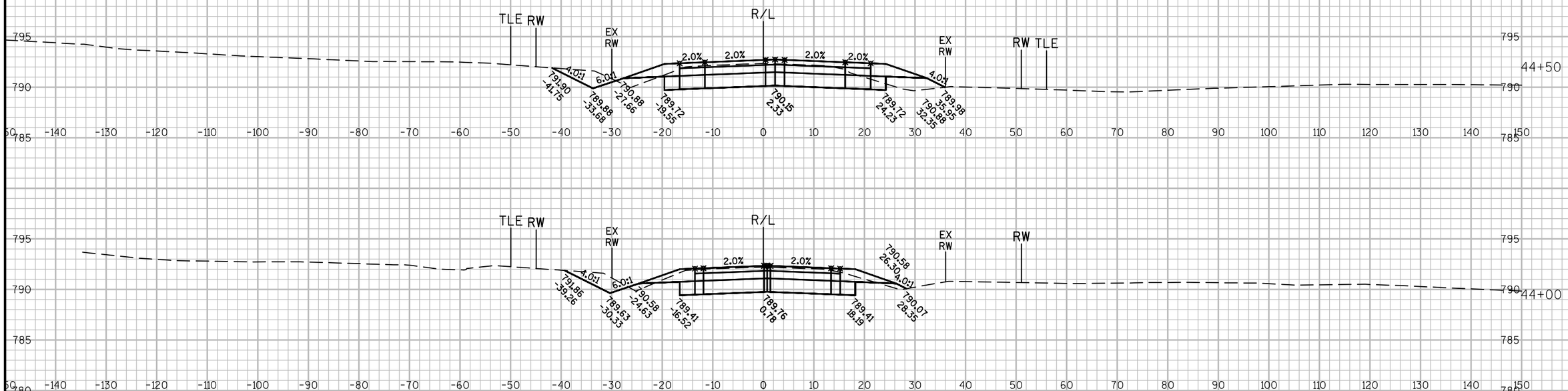
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS 58TH RD.DWG
LAYOUT NAME - SECTION SHEET - (97)

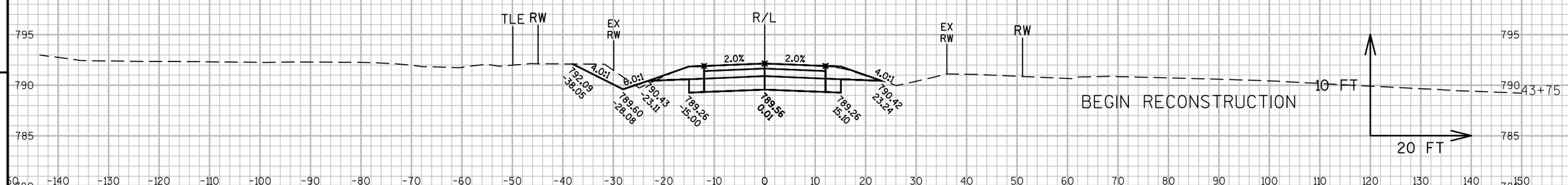
PLOT DATE : 11/30/2016 10:06 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







9

9

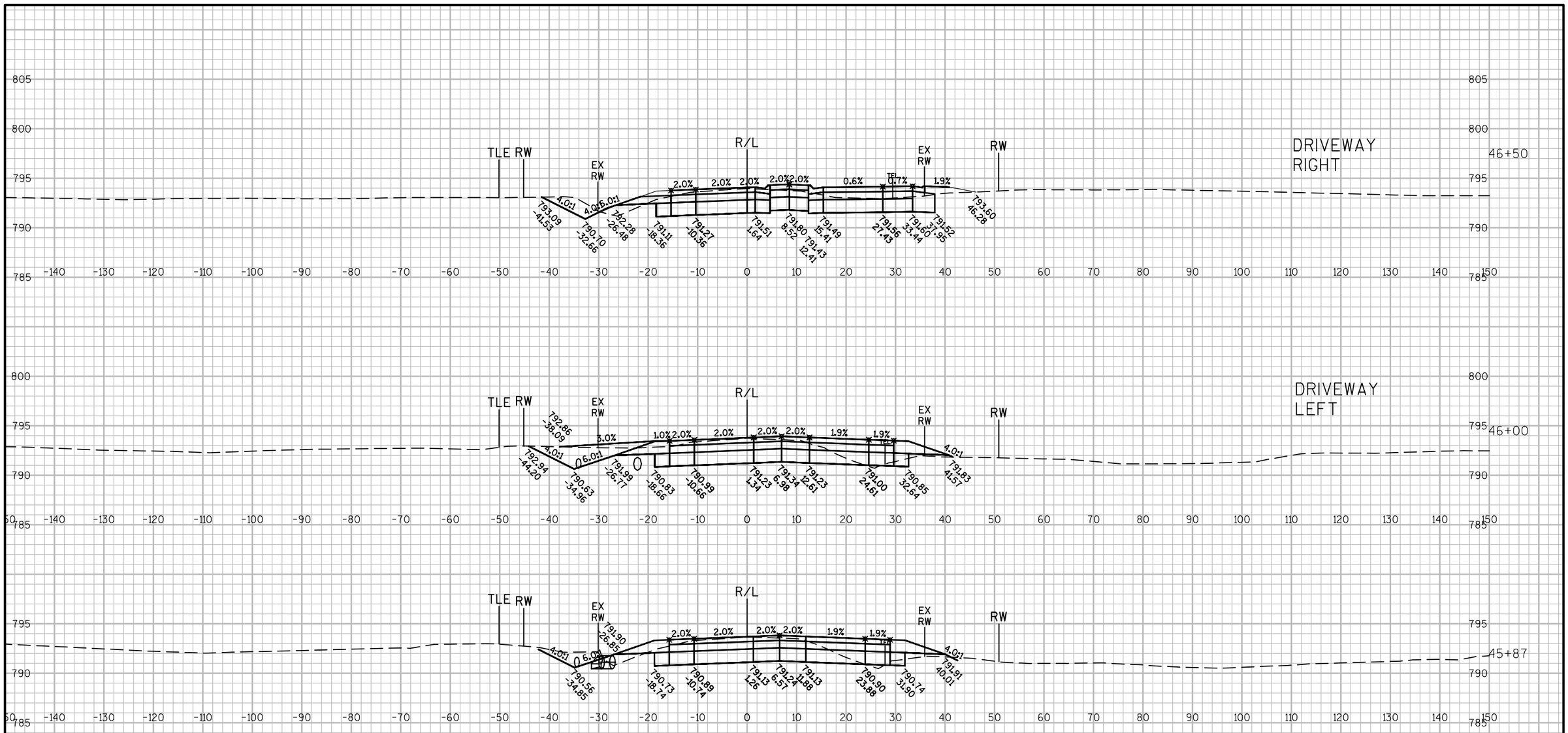
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 604	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS CTHC.DWG
LAYOUT NAME - SECTION SHEET - (116)

PLOT DATE : 11/30/2016 10:47 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

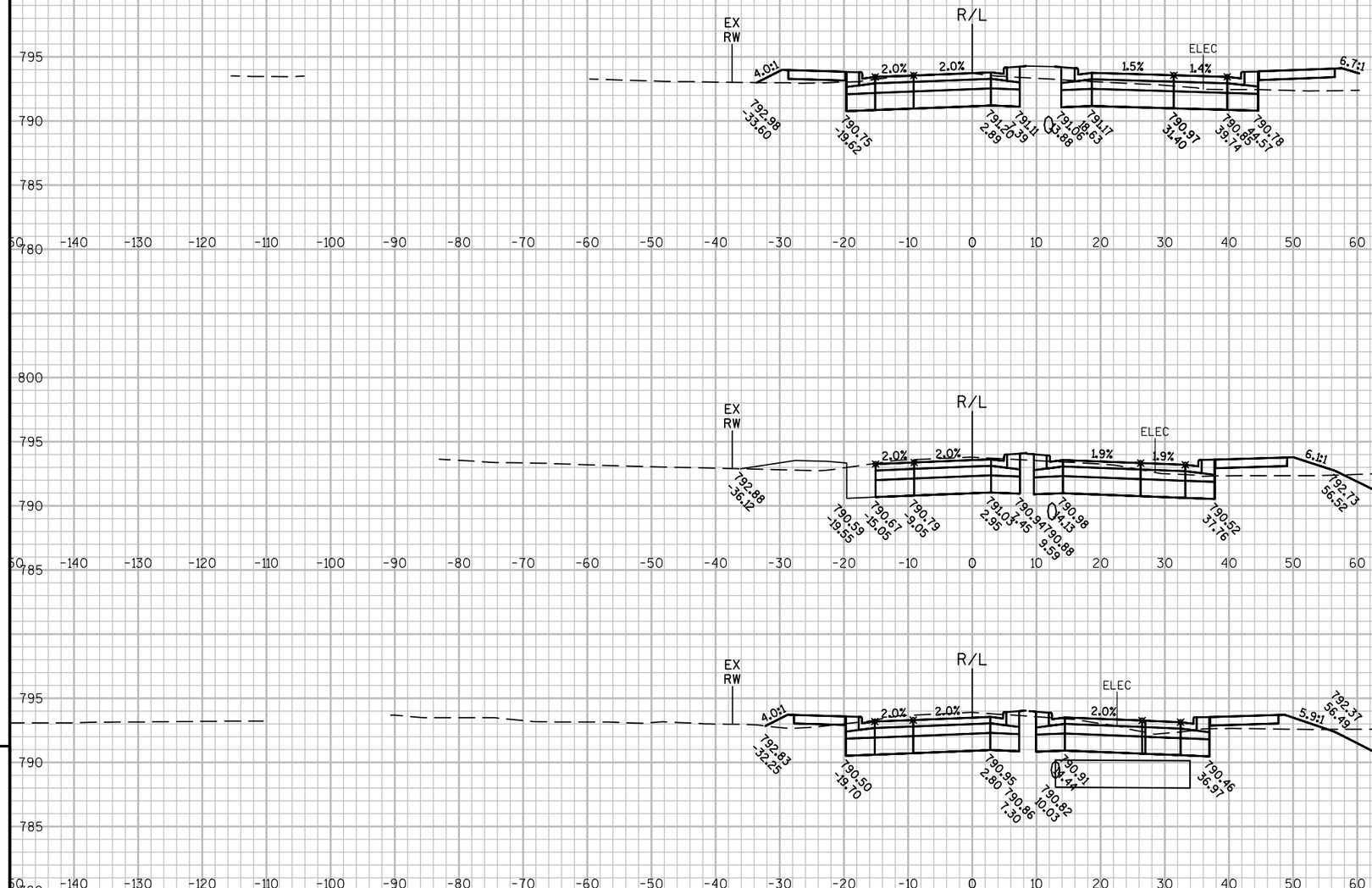


9

9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 605	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS CTHC.DWG
LAYOUT NAME - SECTION SHEET - (117)
PLOT DATE : 11/30/2016 10:47 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



9

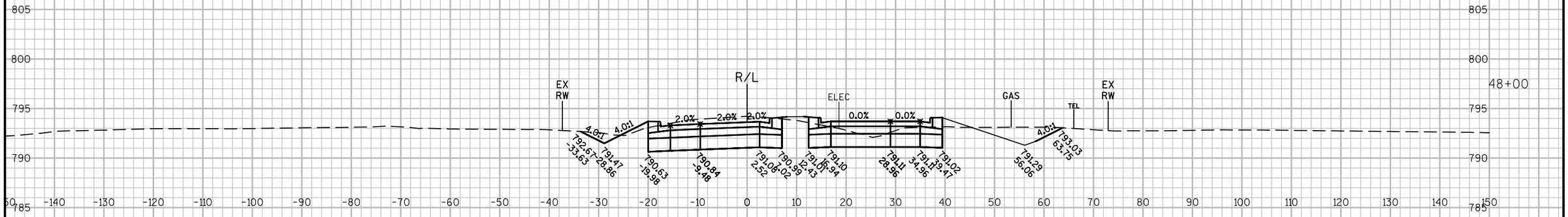
9

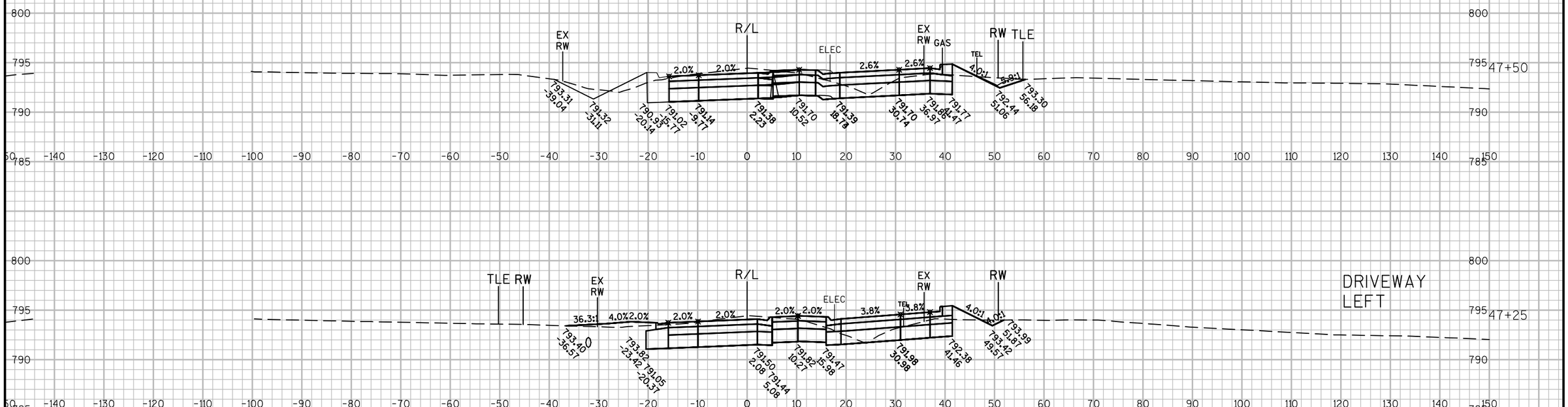
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 606	E

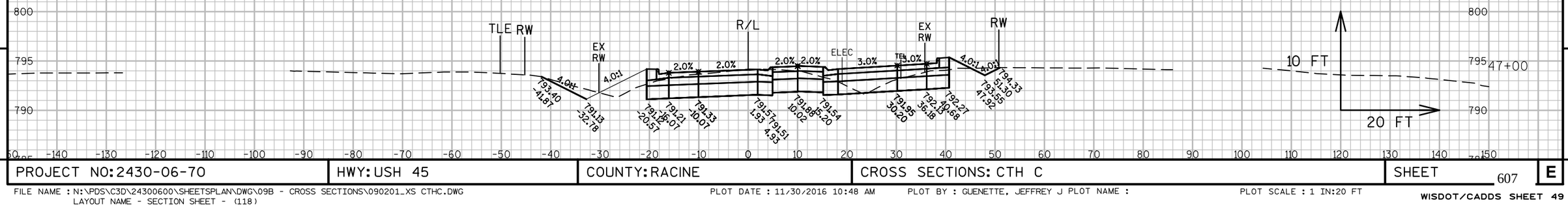
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS CTHC.DWG
LAYOUT NAME - SECTION SHEET - (119)

PLOT DATE : 11/30/2016 10:48 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







9

9

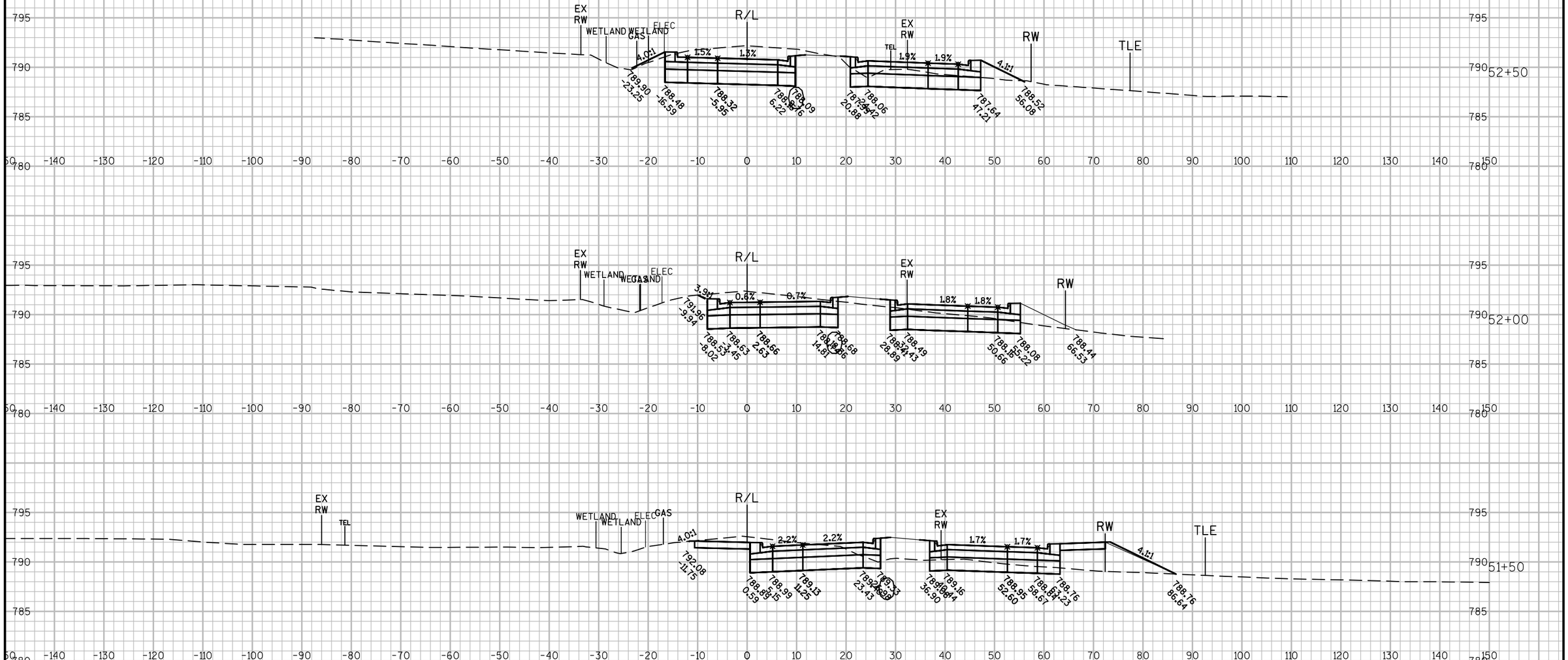
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 607	E

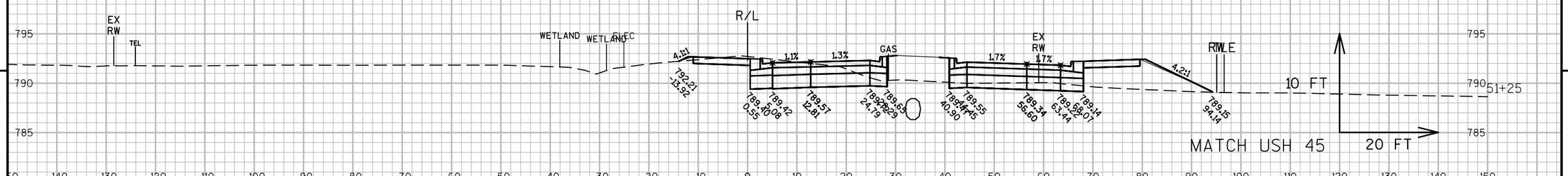
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS CTHC.DWG
LAYOUT NAME - SECTION SHEET - (118)

PLOT DATE : 11/30/2016 10:48 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49





9

9

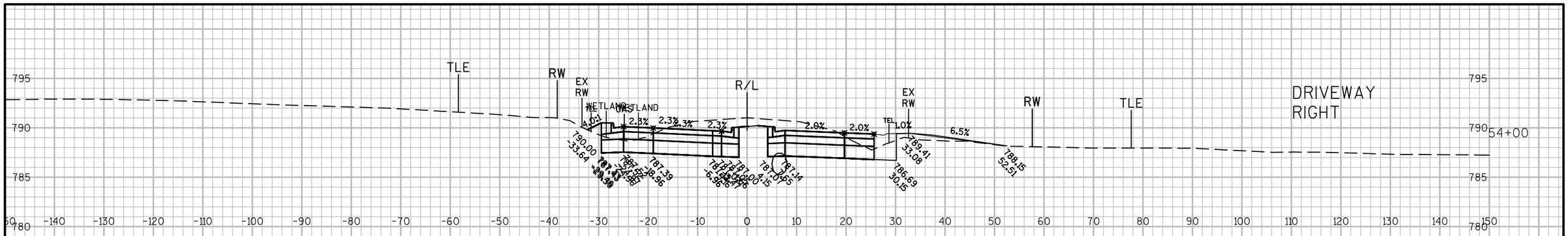
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 608 E

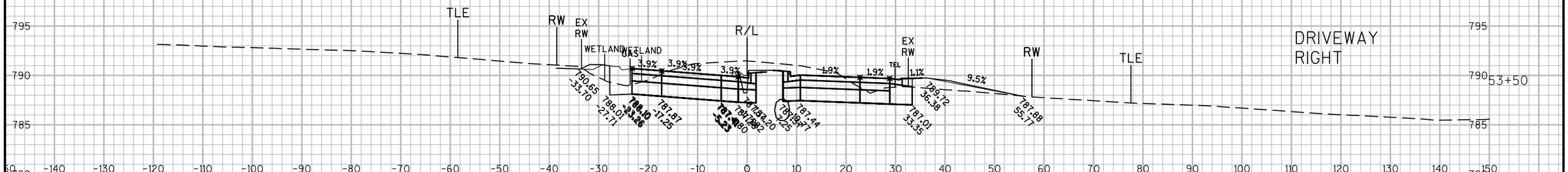
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS CTHC.DWG
LAYOUT NAME - SECTION SHEET - (120)

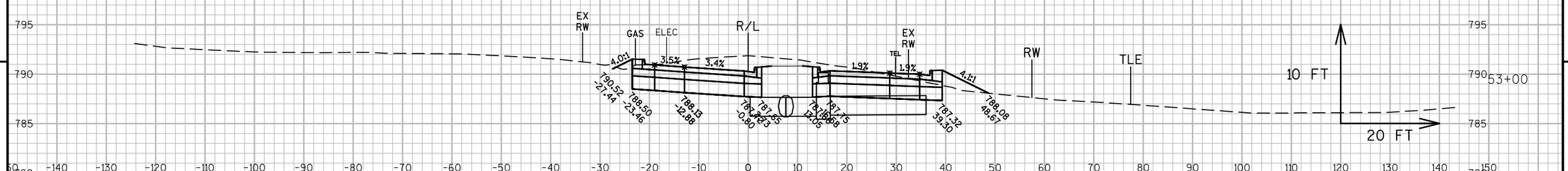
PLOT DATE : 11/30/2016 10:48 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







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9

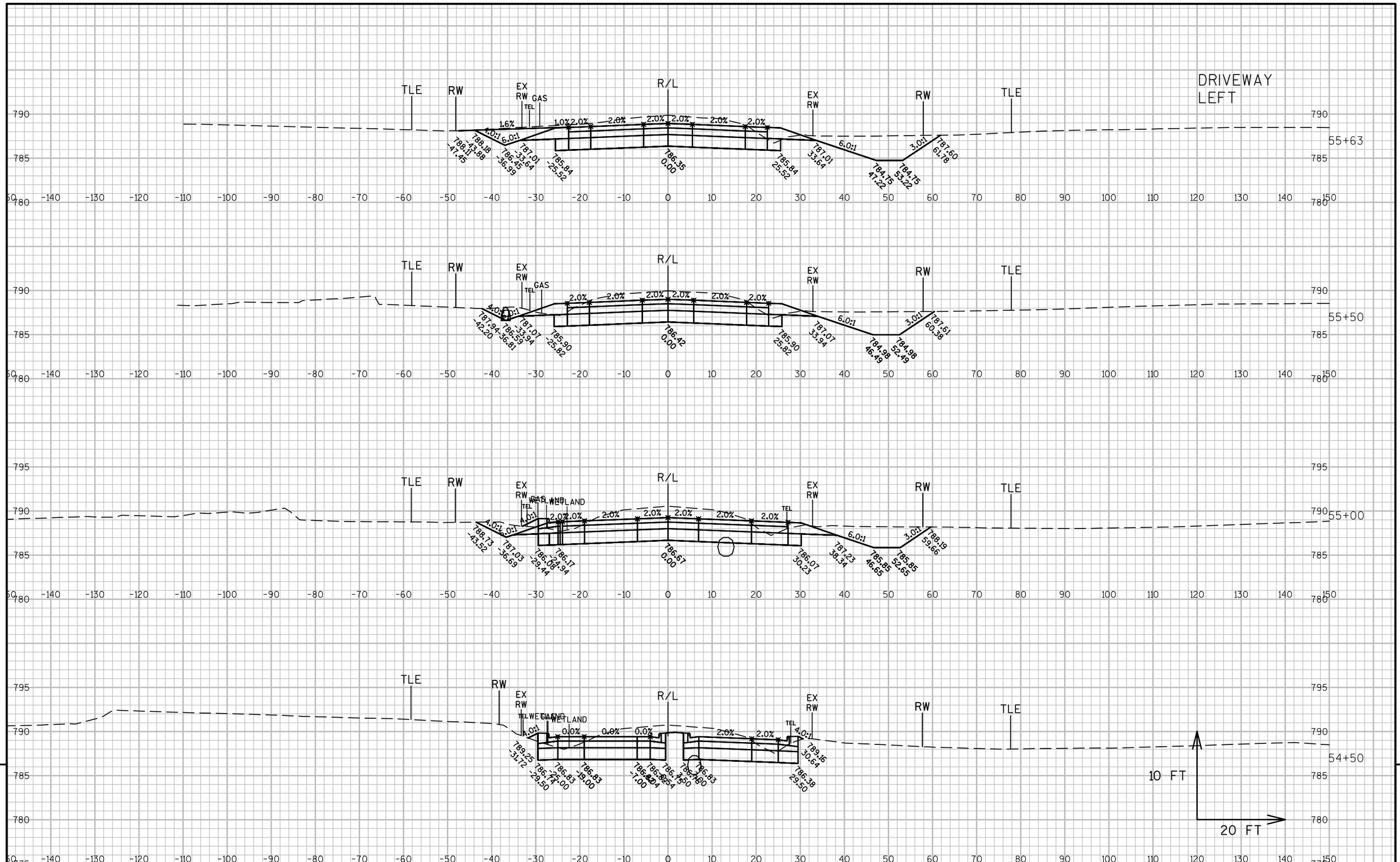
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 609	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS CTHC.DWG
LAYOUT NAME - SECTION SHEET - (121)

PLOT DATE : 11/30/2016 10:48 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

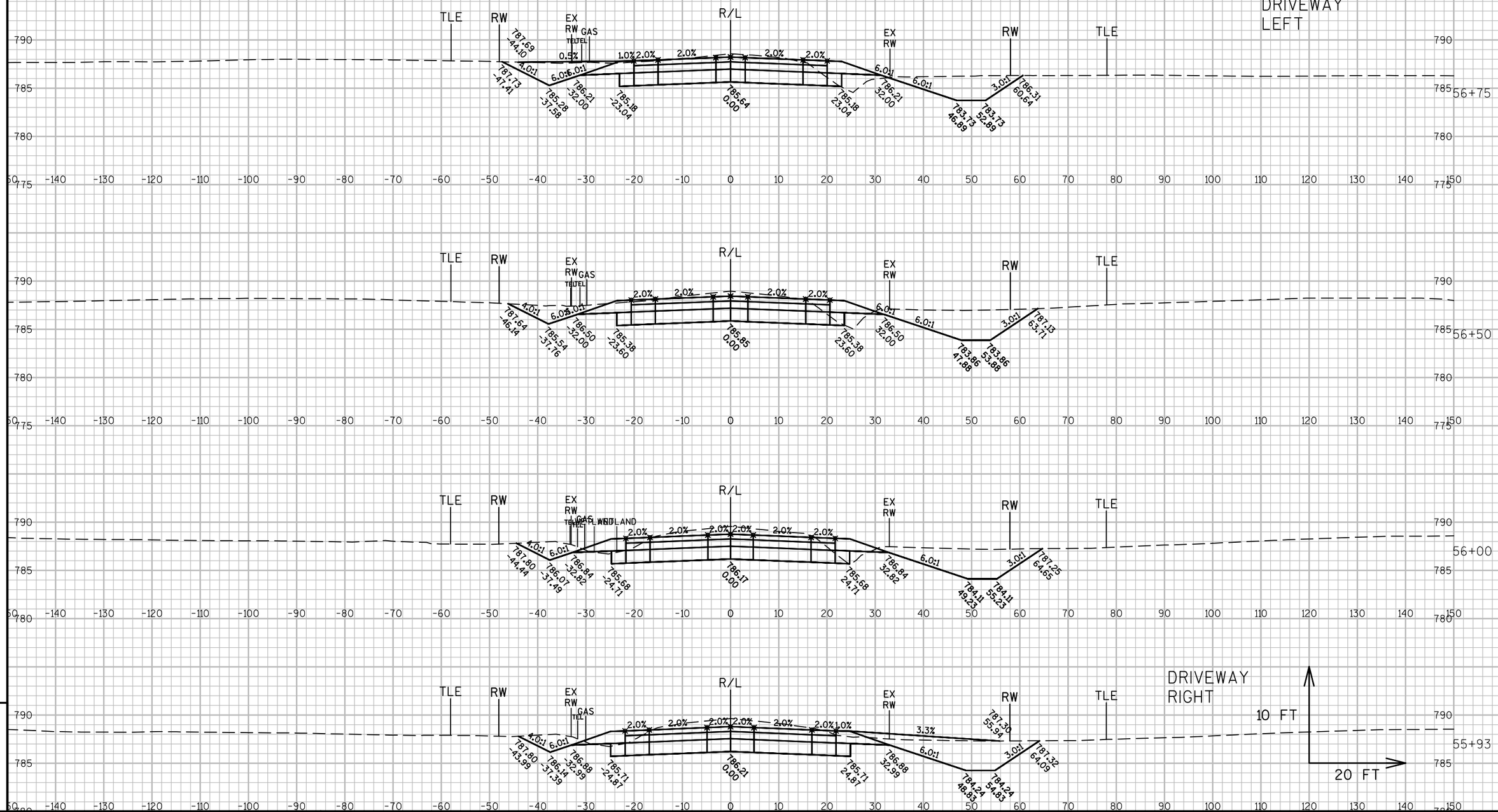
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 610	E

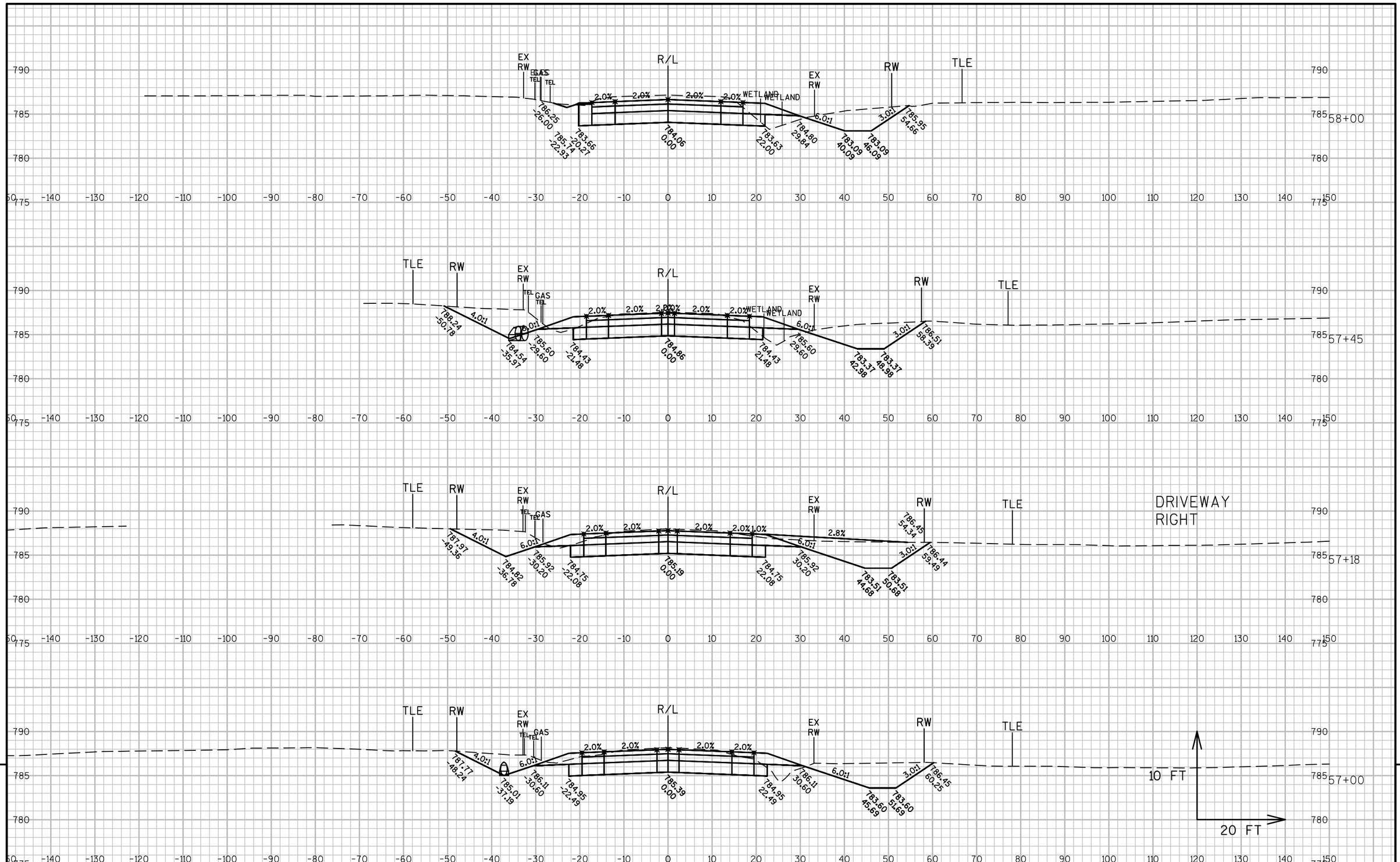
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS CTHC.DWG
LAYOUT NAME - SECTION SHEET - (122)

PLOT DATE : 11/30/2016 10:49 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT



9	PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 611 E



9

9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 612 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS CTHC.DWG
LAYOUT NAME - SECTION SHEET - (124)

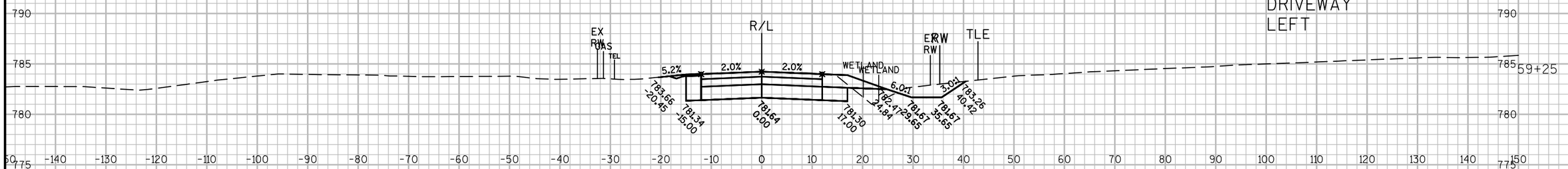
PLOT DATE : 11/30/2016 10:49 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:20 FT

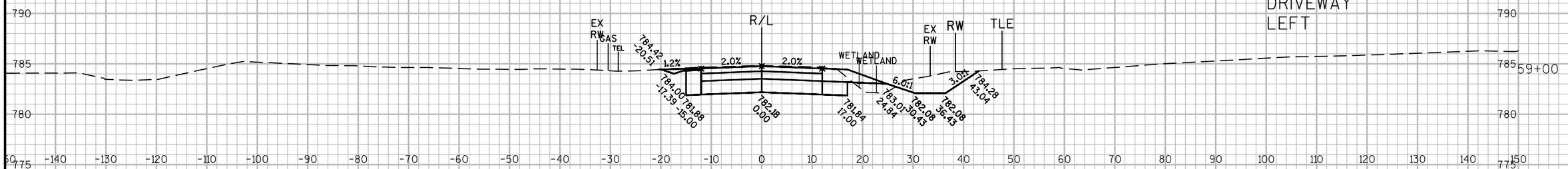
WISDOT/CADDS SHEET 49

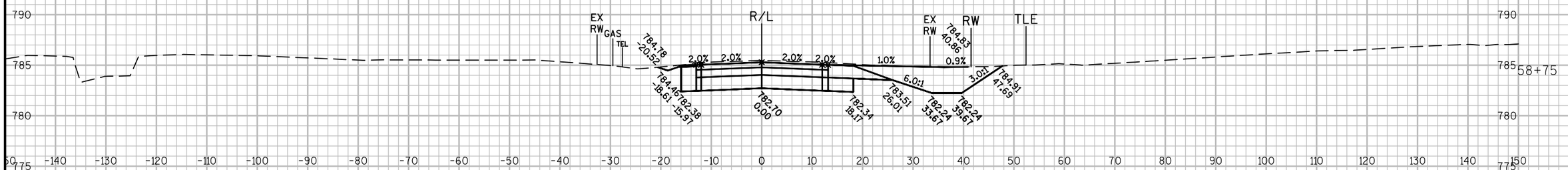
END RECONSTRUCTION

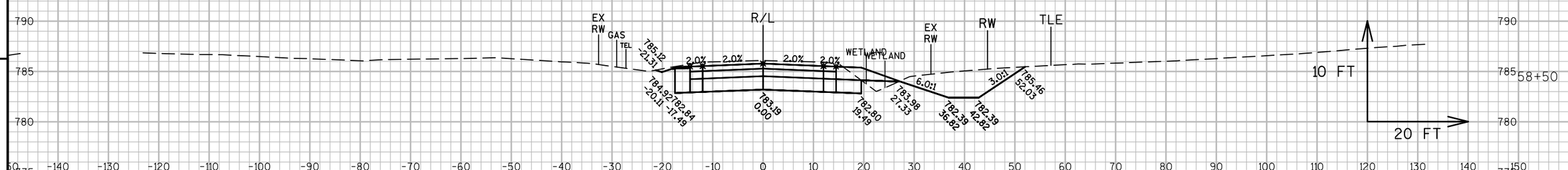
DRIVEWAY
LEFT



DRIVEWAY
LEFT







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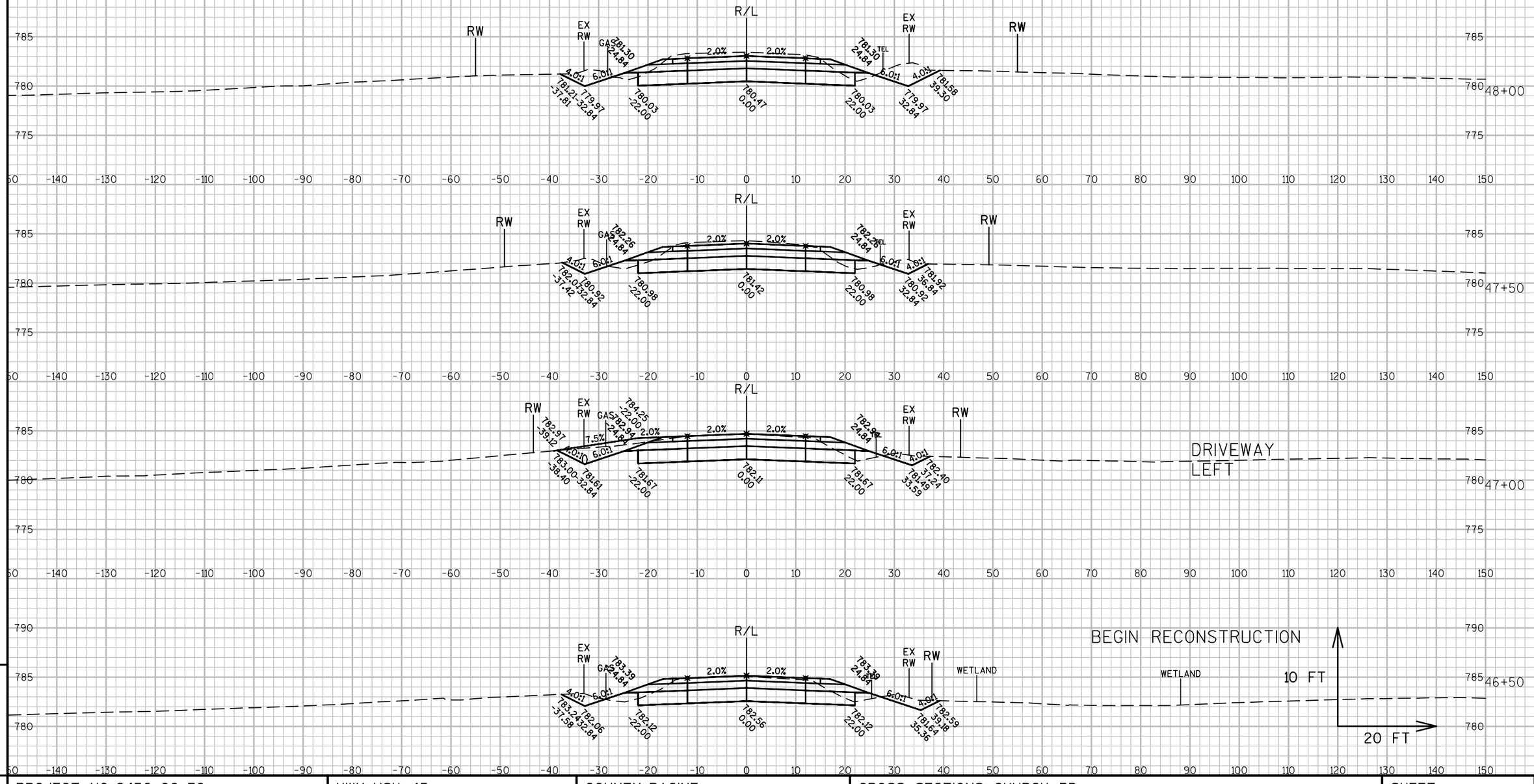
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: CTH C	SHEET 613	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS CTHC.DWG
LAYOUT NAME - SECTION SHEET - (125)

PLOT DATE : 11/30/2016 10:50 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

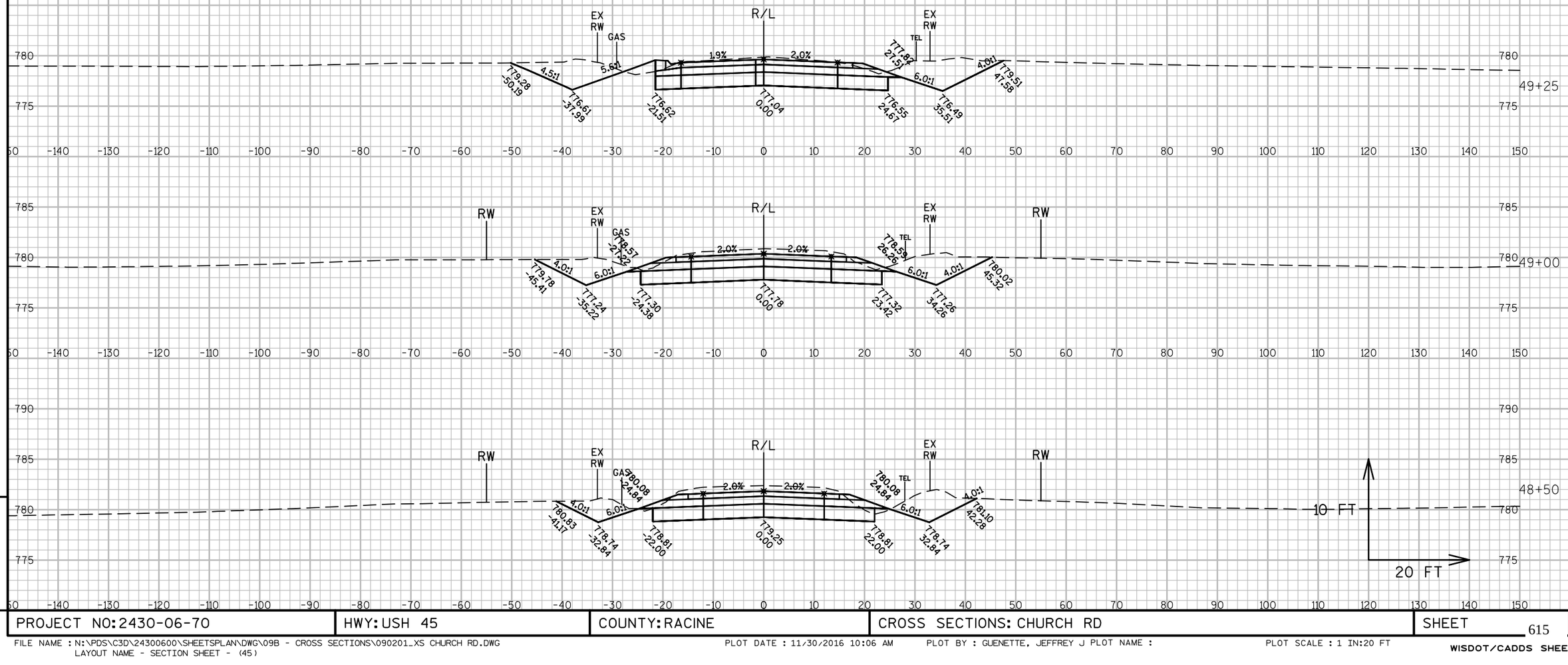


9

9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: CHURCH RD	SHEET 614	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS CHURCH RD.DWG
LAYOUT NAME - SECTION SHEET - (44)
PLOT DATE : 11/30/2016 10:06 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: CHURCH RD	SHEET 615 E

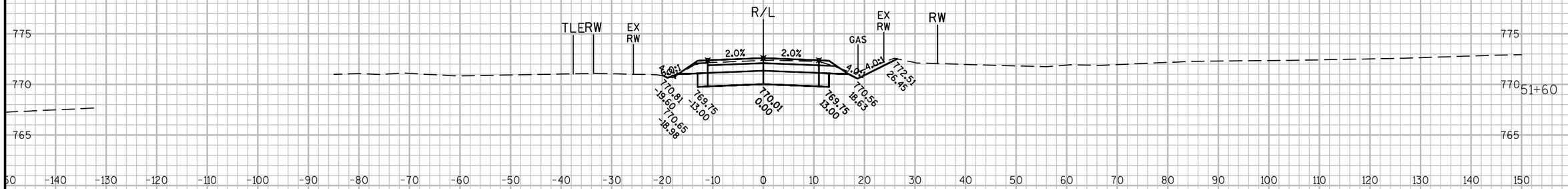
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS CHURCH RD.DWG
LAYOUT NAME - SECTION SHEET - (45)

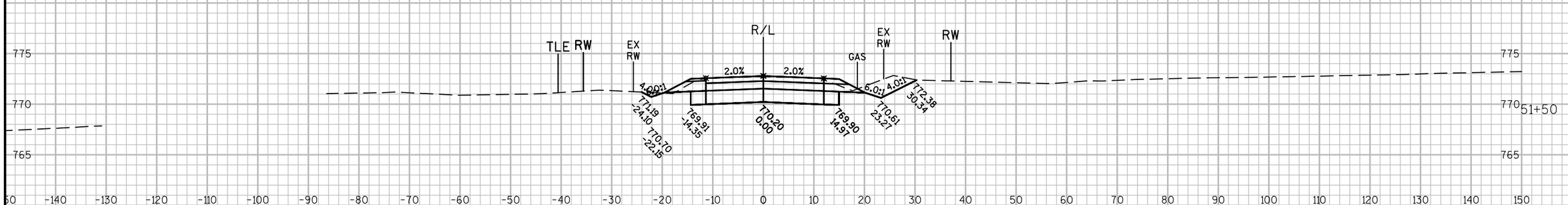
PLOT DATE : 11/30/2016 10:06 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

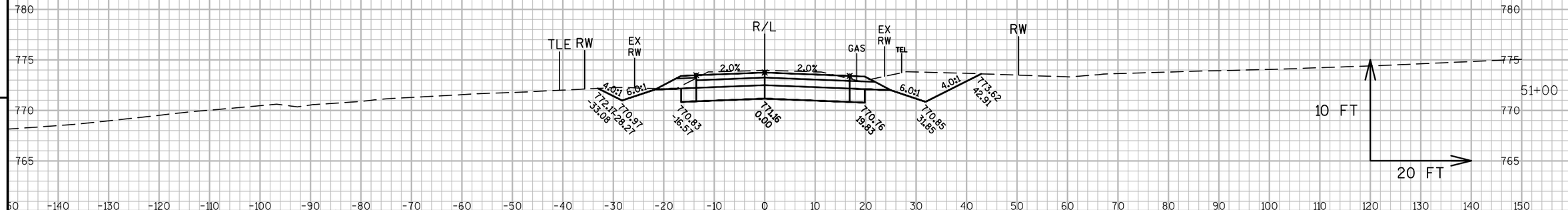
PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

END RECONSTRUCTION







9

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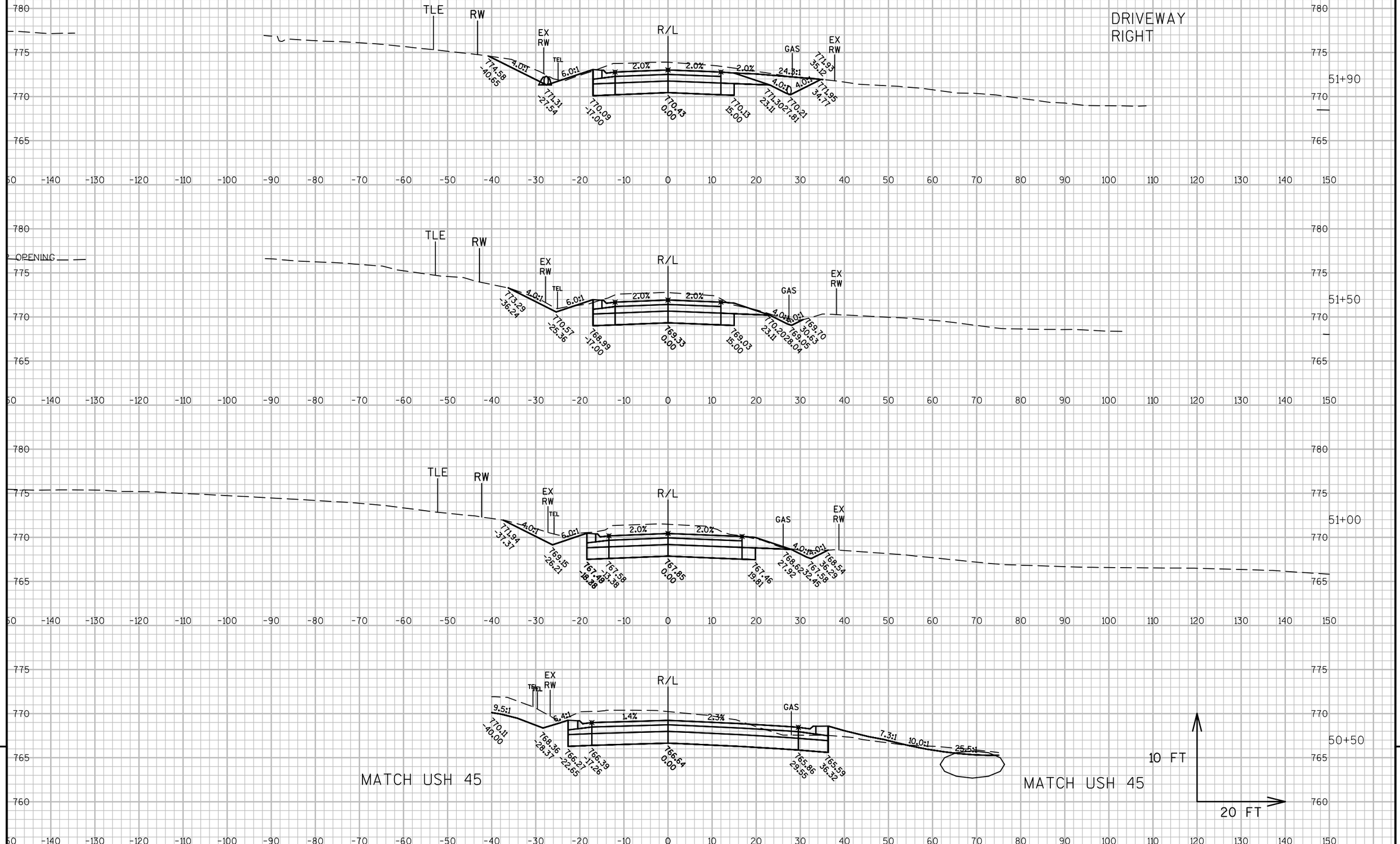
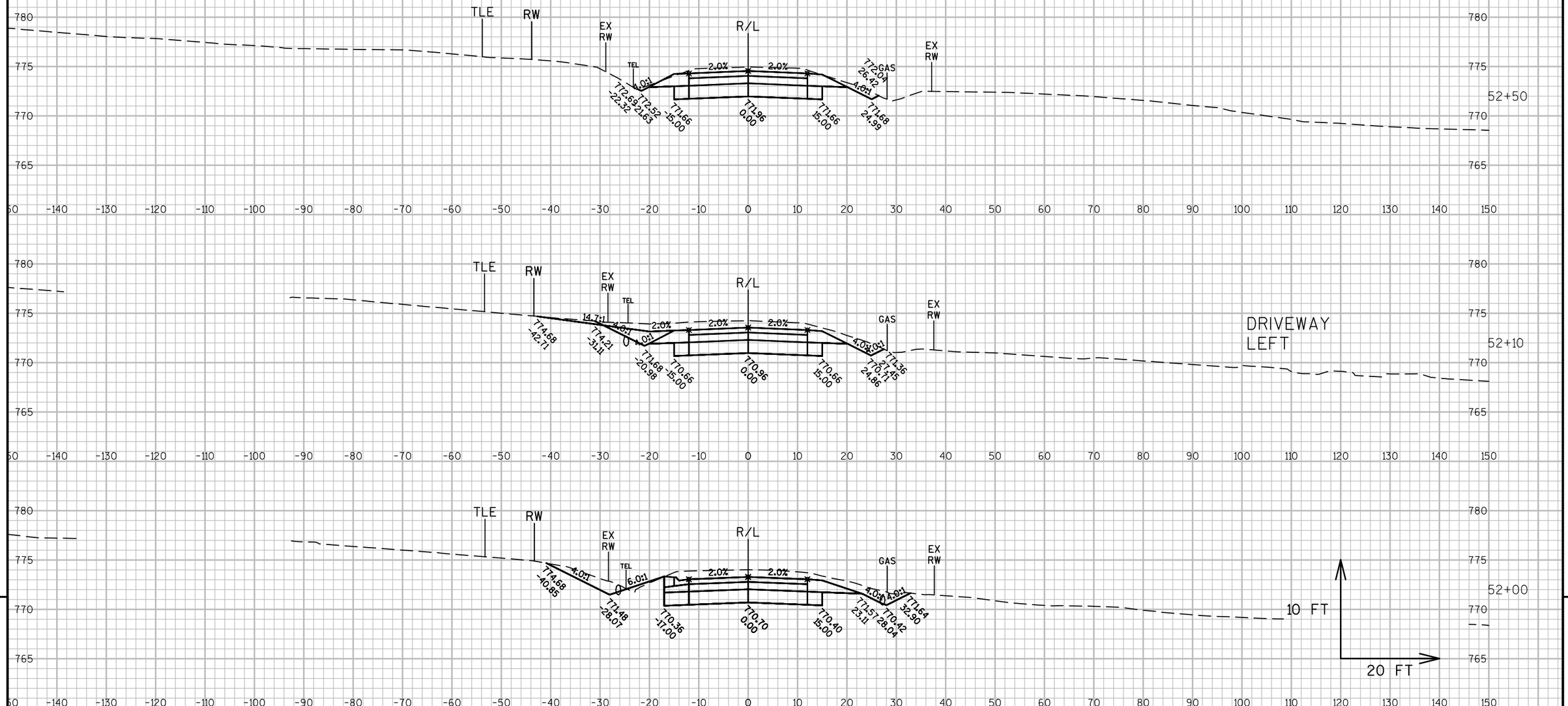
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: 52ND RD	SHEET 616	E



PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: SAVAGE ROAD	SHEET 617 E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS SAVAGE RD .DWG
LAYOUT NAME - 090201_XS SAVAGE RD - SECTION SHEET - (23)

PLOT DATE : 11/30/2016 10:22 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: SAVAGE ROAD	SHEET 618	E

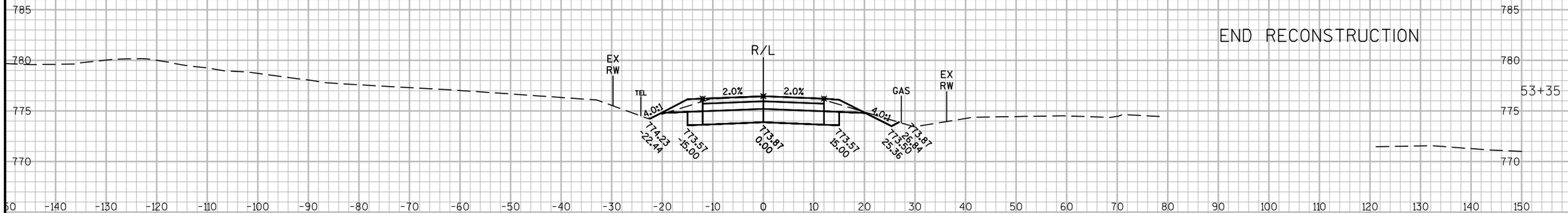
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS SAVAGE RD .DWG
LAYOUT NAME - 090201_XS SAVAGE RD - SECTION SHEET - (24)

PLOT DATE : 11/30/2016 10:22 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

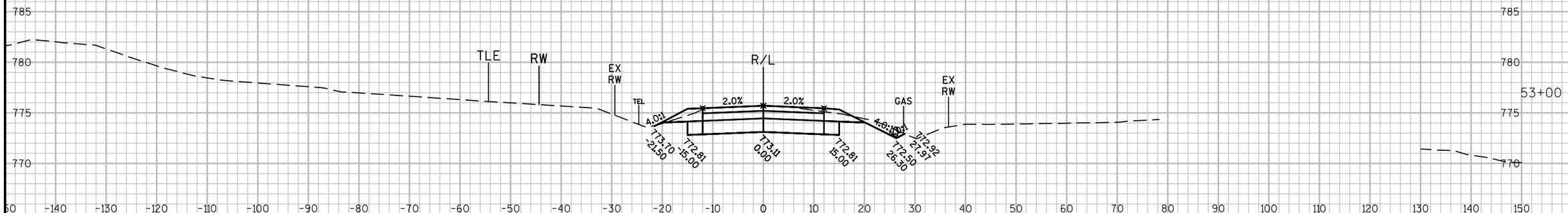
PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

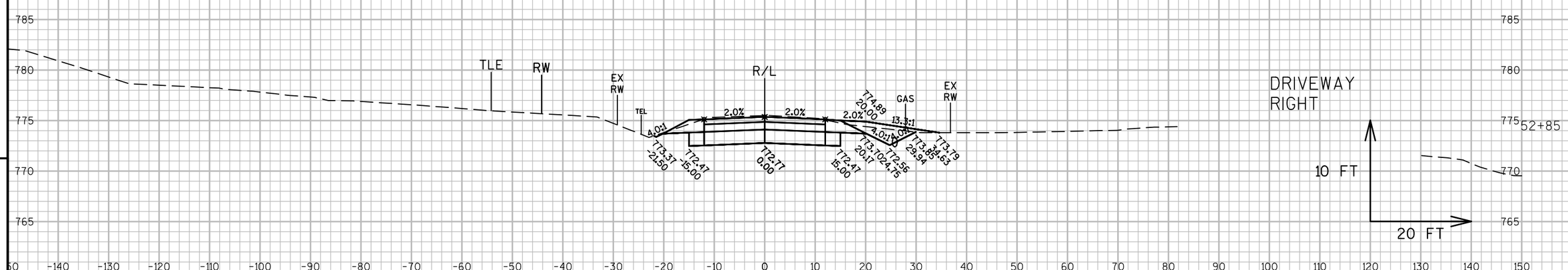
END RECONSTRUCTION



53+35



53+00



DRIVEWAY RIGHT

52+85

10 FT

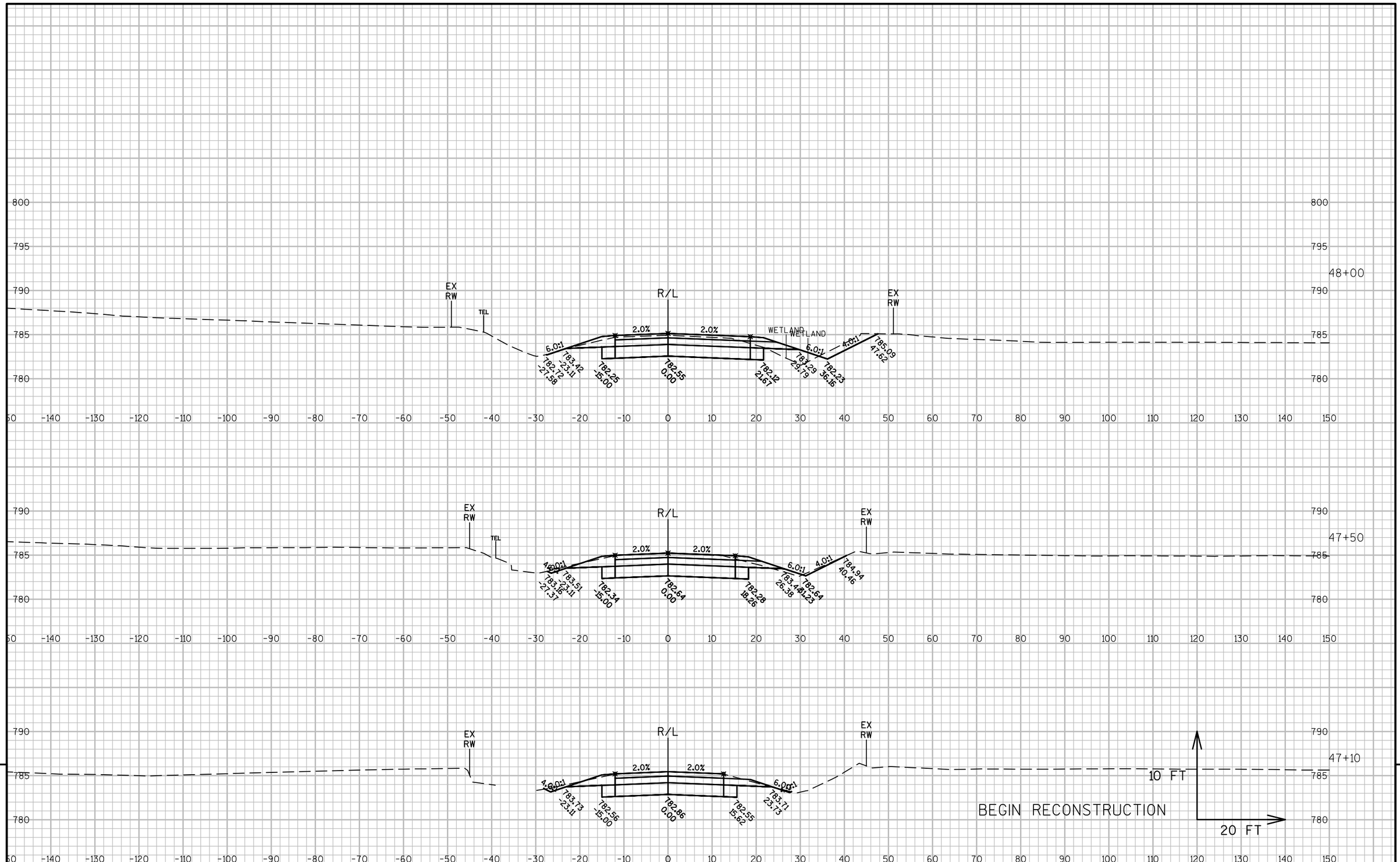
20 FT

9

9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: SAVAGE ROAD	SHEET 619	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS SAVAGE RD .DWG
LAYOUT NAME - 090201_XS SAVAGE RD - SECTION SHEET - (25)
PLOT DATE : 11/30/2016 10:22 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT



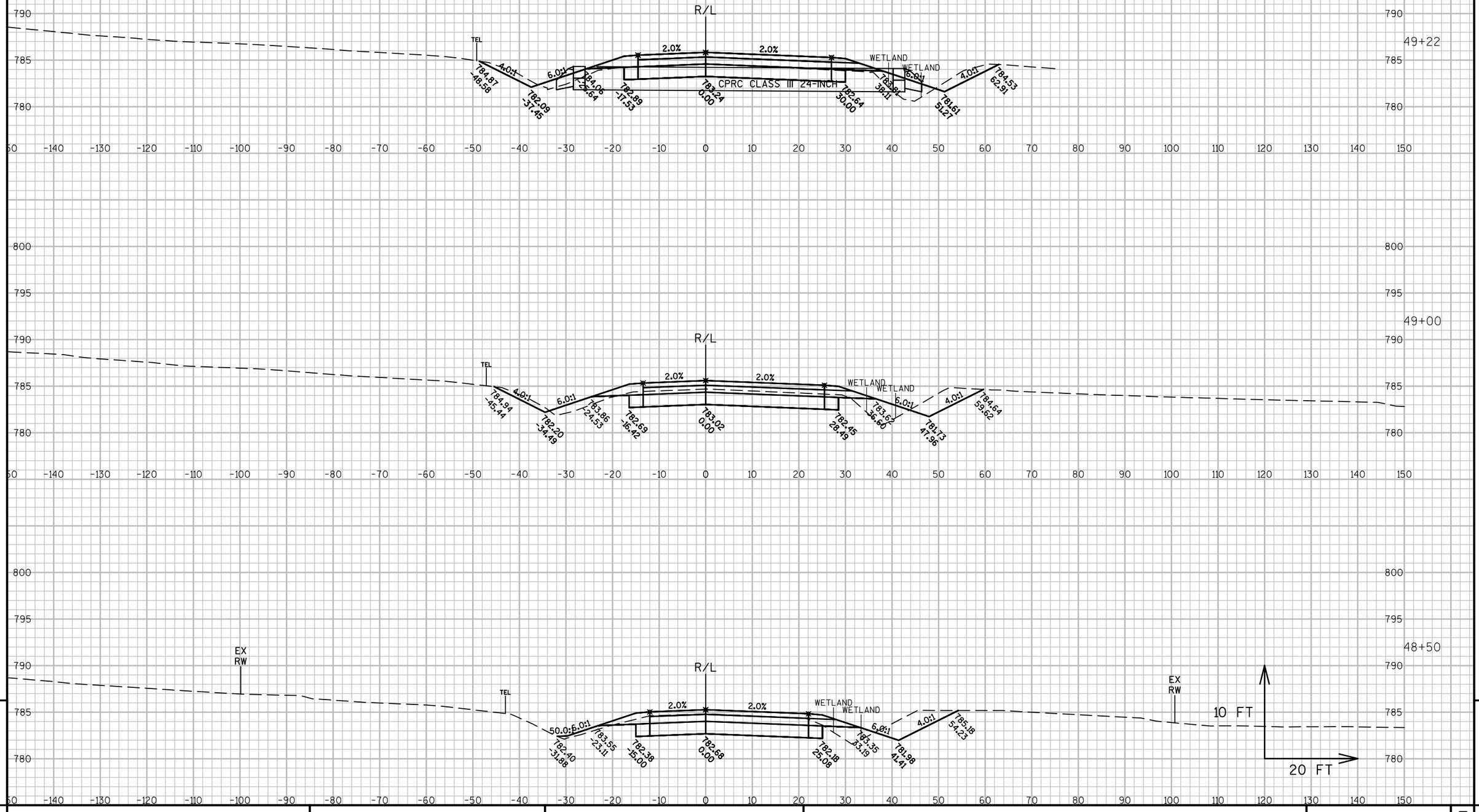
9

9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: CTH A	SHEET 620	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS CTHA.DWG
LAYOUT NAME - SECTION SHEET - (38)
PLOT DATE : 11/30/2016 10:13 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :
PLOT SCALE : 1 IN:20 FT

MATCH USH 45



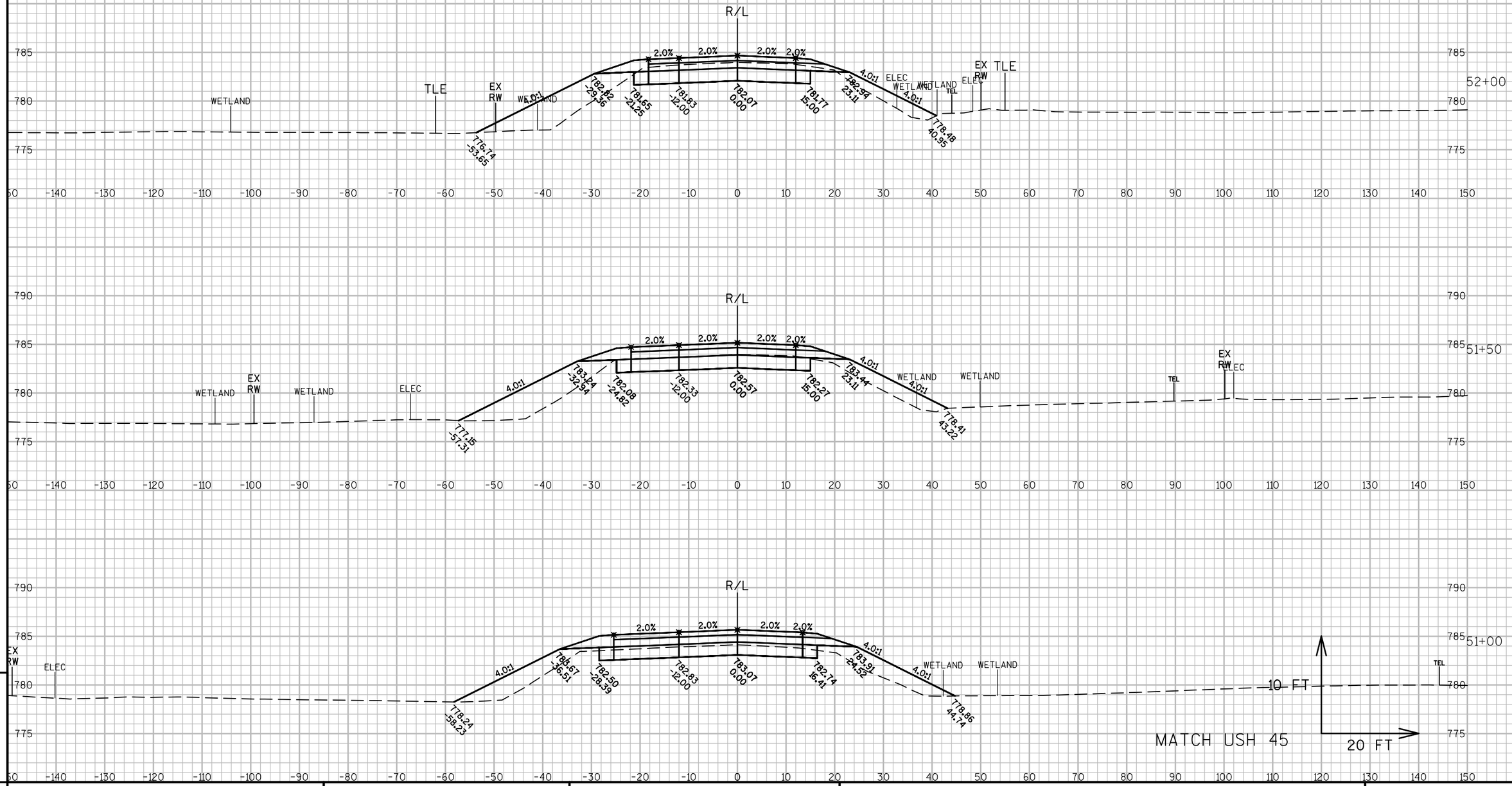
9

9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: CTH A	SHEET 621	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS CTHA.DWG
LAYOUT NAME - SECTION SHEET - (39)

PLOT DATE : 11/30/2016 10:14 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT



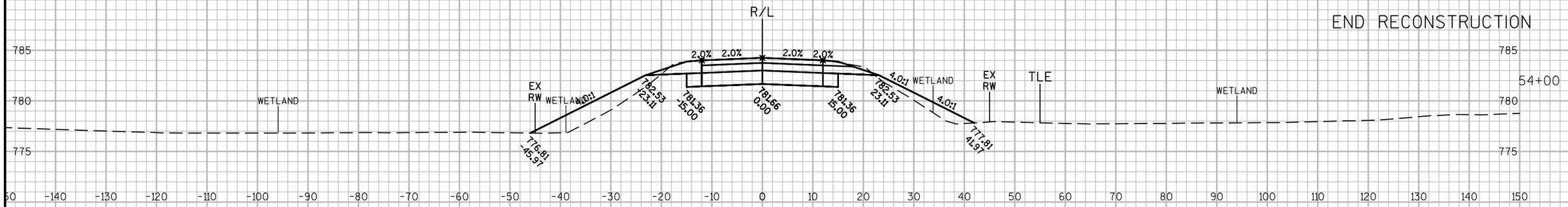
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: CTH A	SHEET 622	E

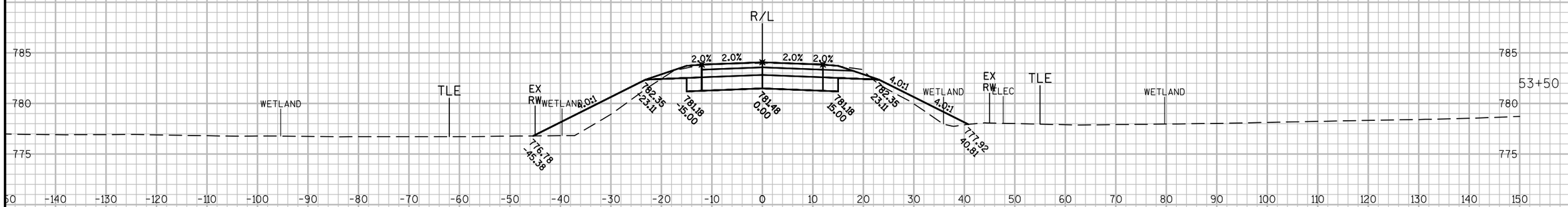
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS CTHA.DWG
LAYOUT NAME - SECTION SHEET - (40)

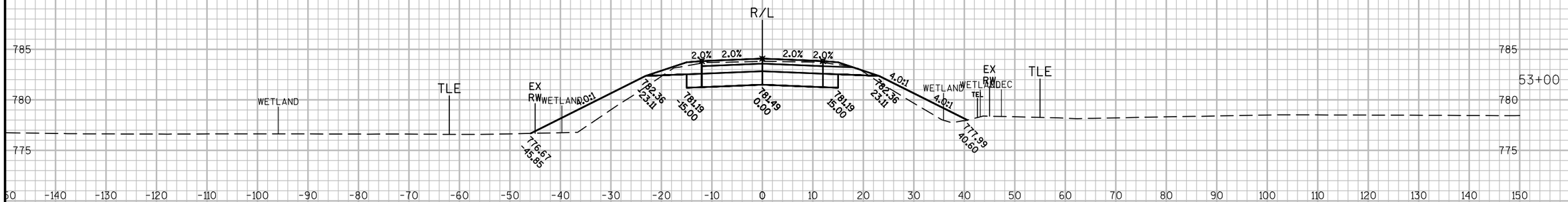
PLOT DATE : 11/30/2016 10:14 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

END RECONSTRUCTION







9

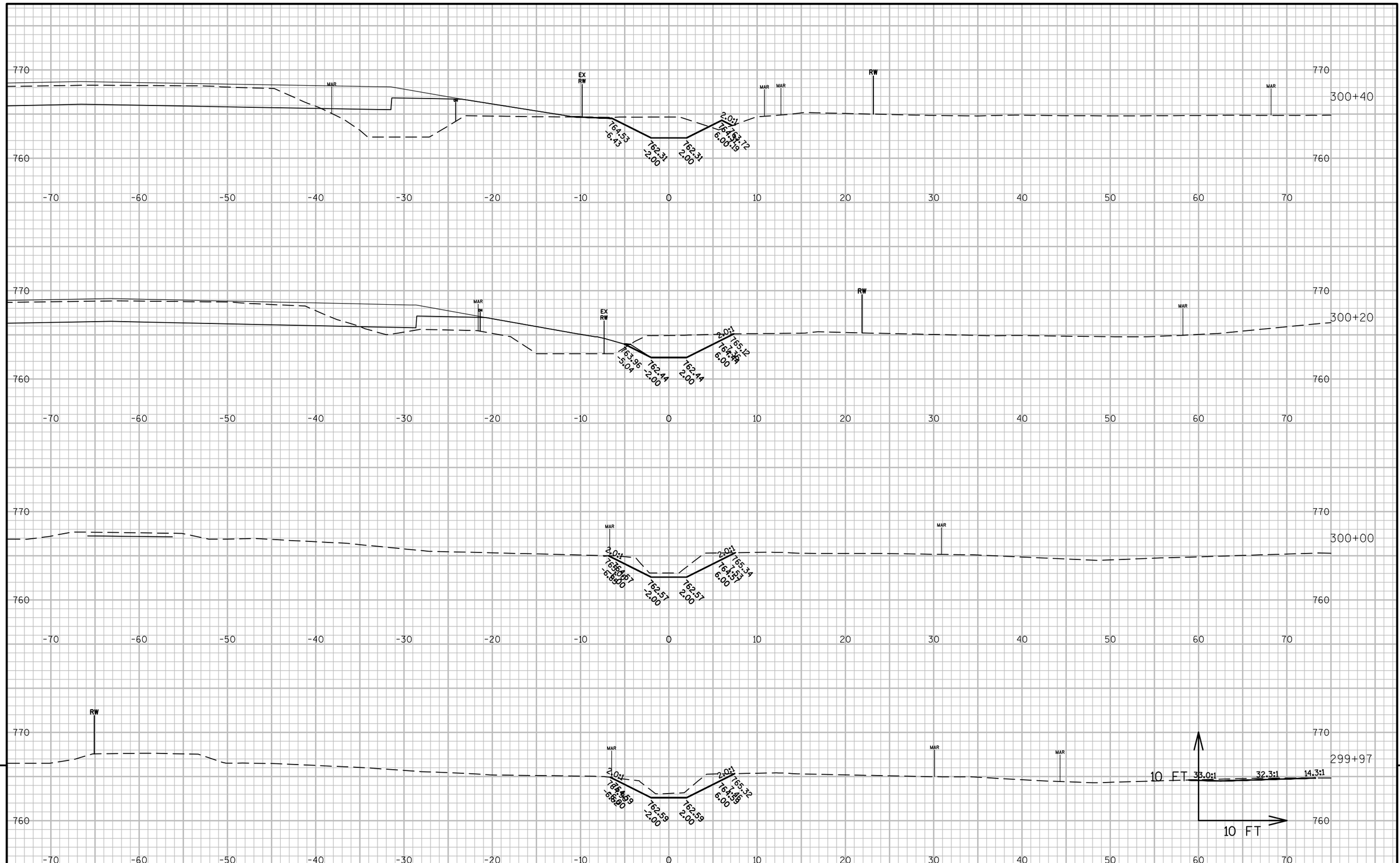
9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: CTH A	SHEET 623	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS CTHA.DWG
LAYOUT NAME - SECTION SHEET - (41)

PLOT DATE : 11/30/2016 10:14 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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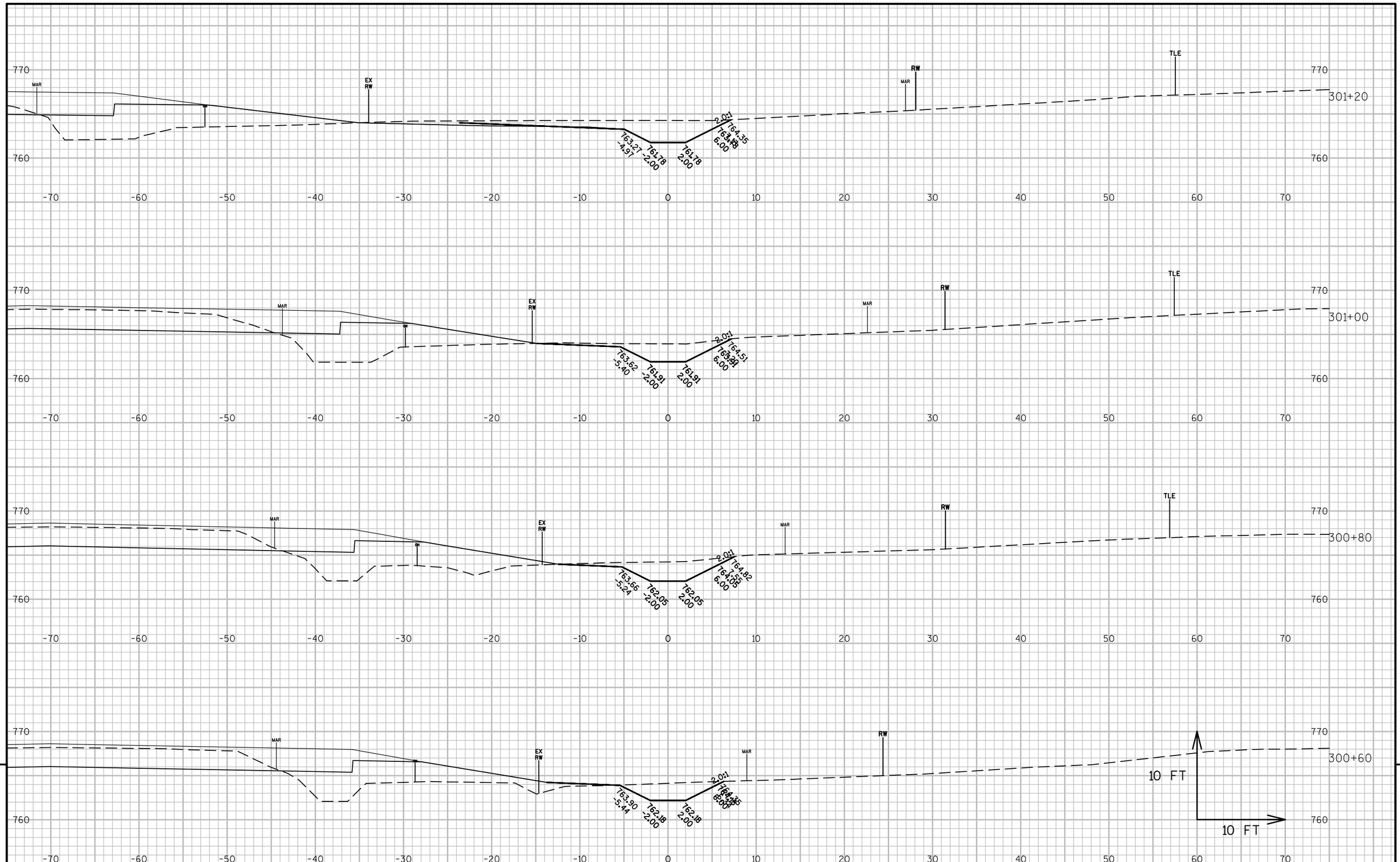
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: STREAM RELOCATION B-51-65 A	SHEET 624	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS STREAM RELOCATE STA 190+00.DWG
LAYOUT NAME - SECTION SHEET - (32)
PLOT DATE : 11/30/2016 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 49



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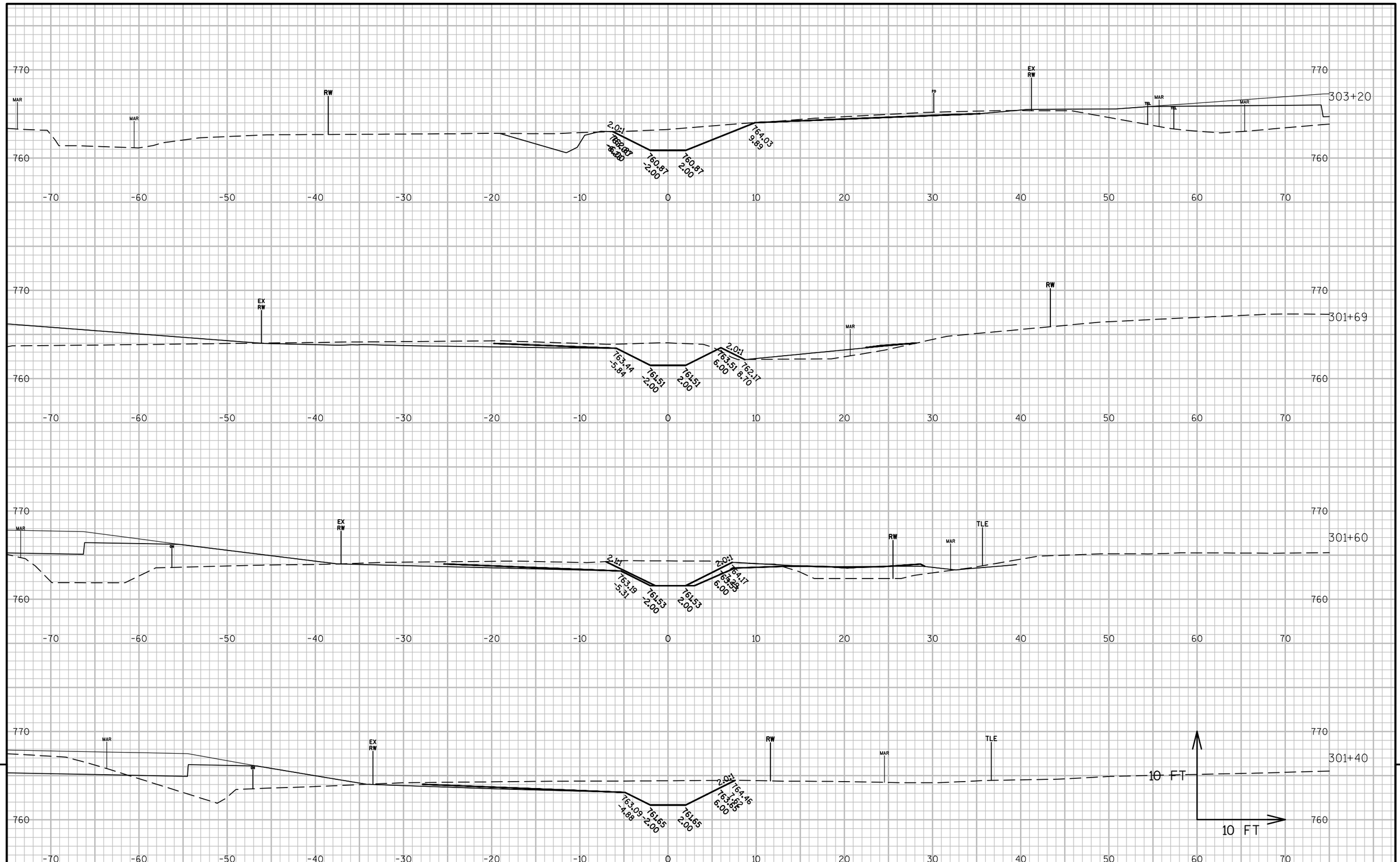
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: STREAM RELOCATION B-51-65 A	SHEET 625	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS STREAM RELOCATE STA 190+00.DWG
LAYOUT NAME - SECTION SHEET - (33)

PLOT DATE : 11/30/2016 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT



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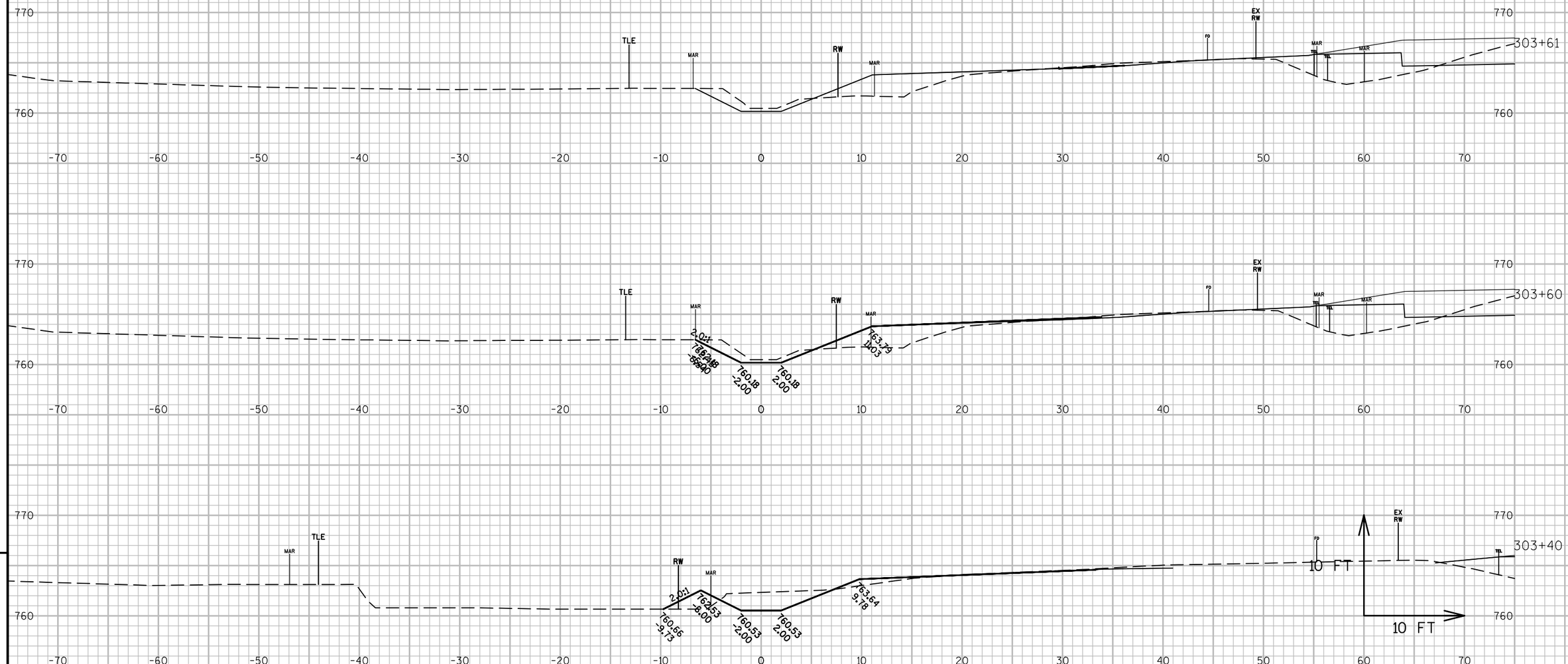
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: STREAM RELOCATION B-51-65 A	SHEET 626	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS STREAM RELOCATE STA 190+00.DWG
LAYOUT NAME - SECTION SHEET - (34)

PLOT DATE : 11/30/2016 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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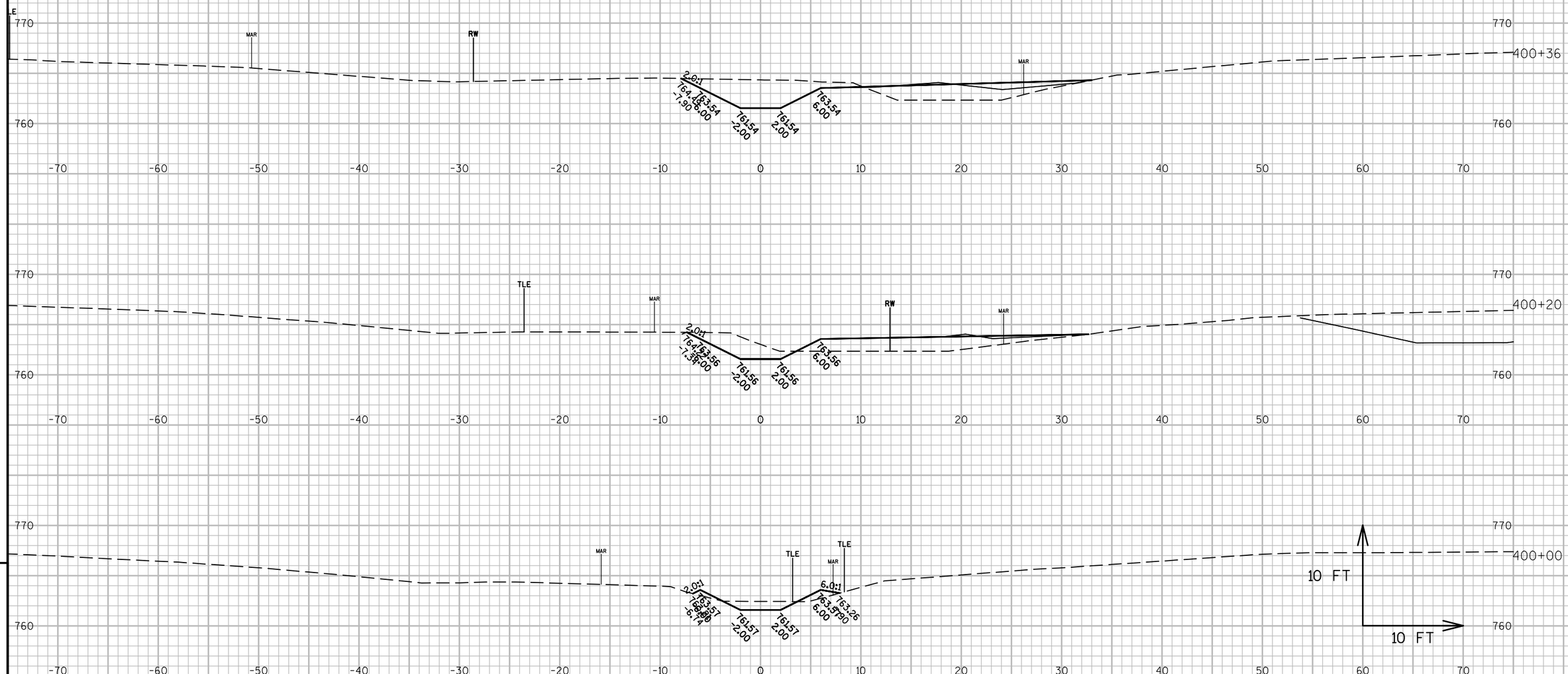
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: STREAM RELOCATION B-51-65 A	SHEET 627	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS STREAM RELOCATE STA 190+00.DWG
LAYOUT NAME - SECTION SHEET - (35)

PLOT DATE : 11/30/2016 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT



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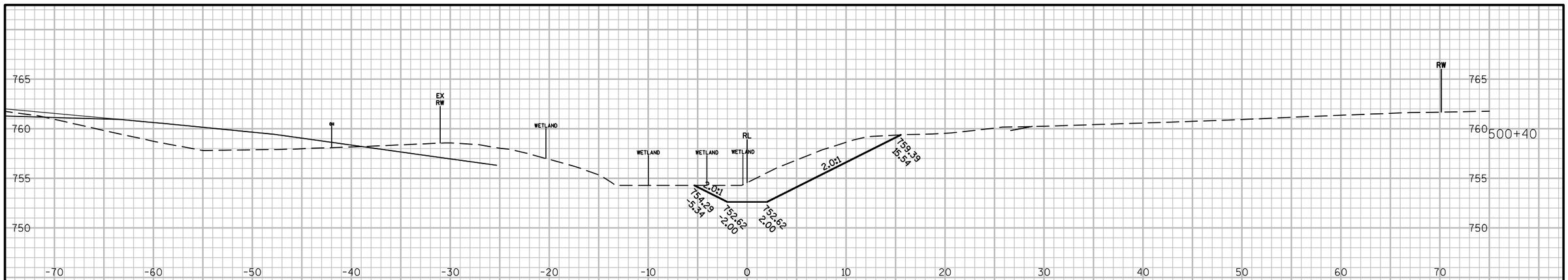
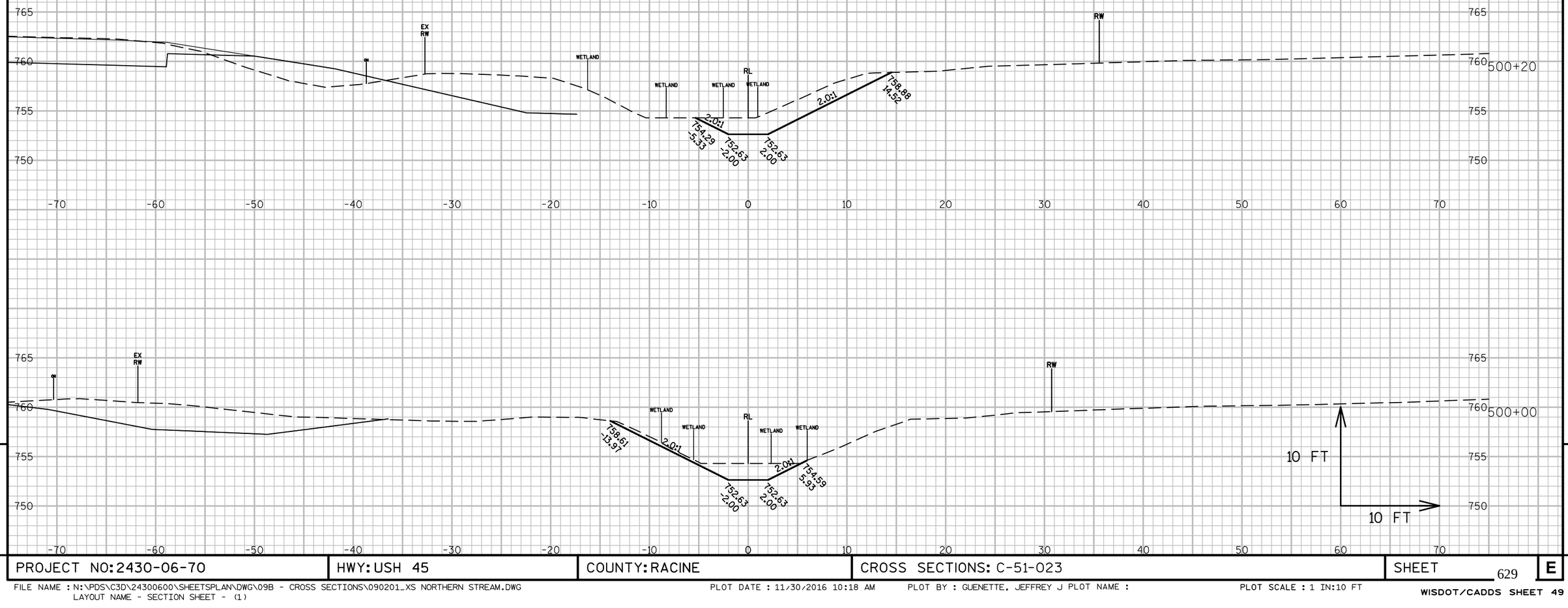
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: STREAM RELOCATION B-51-65 B	SHEET 628	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS STREAM RELOCATE STA 190+00.DWG
LAYOUT NAME - SECTION SHEET - (36)

PLOT DATE : 11/30/2016 10:35 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT





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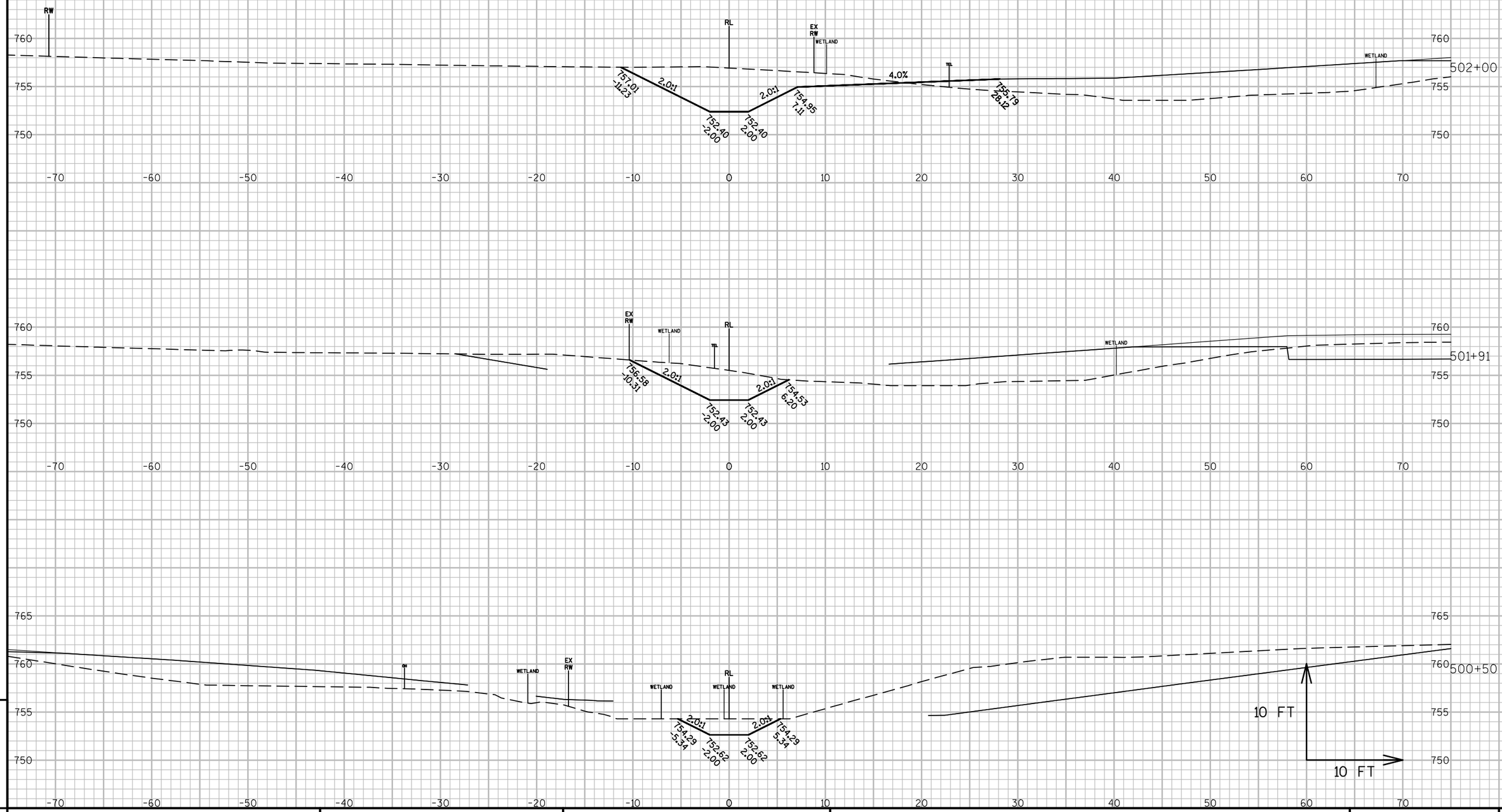
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: C-51-023	SHEET 629	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS NORTHERN STREAM.DWG
LAYOUT NAME - SECTION SHEET - (1)

PLOT DATE : 11/30/2016 10:18 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT



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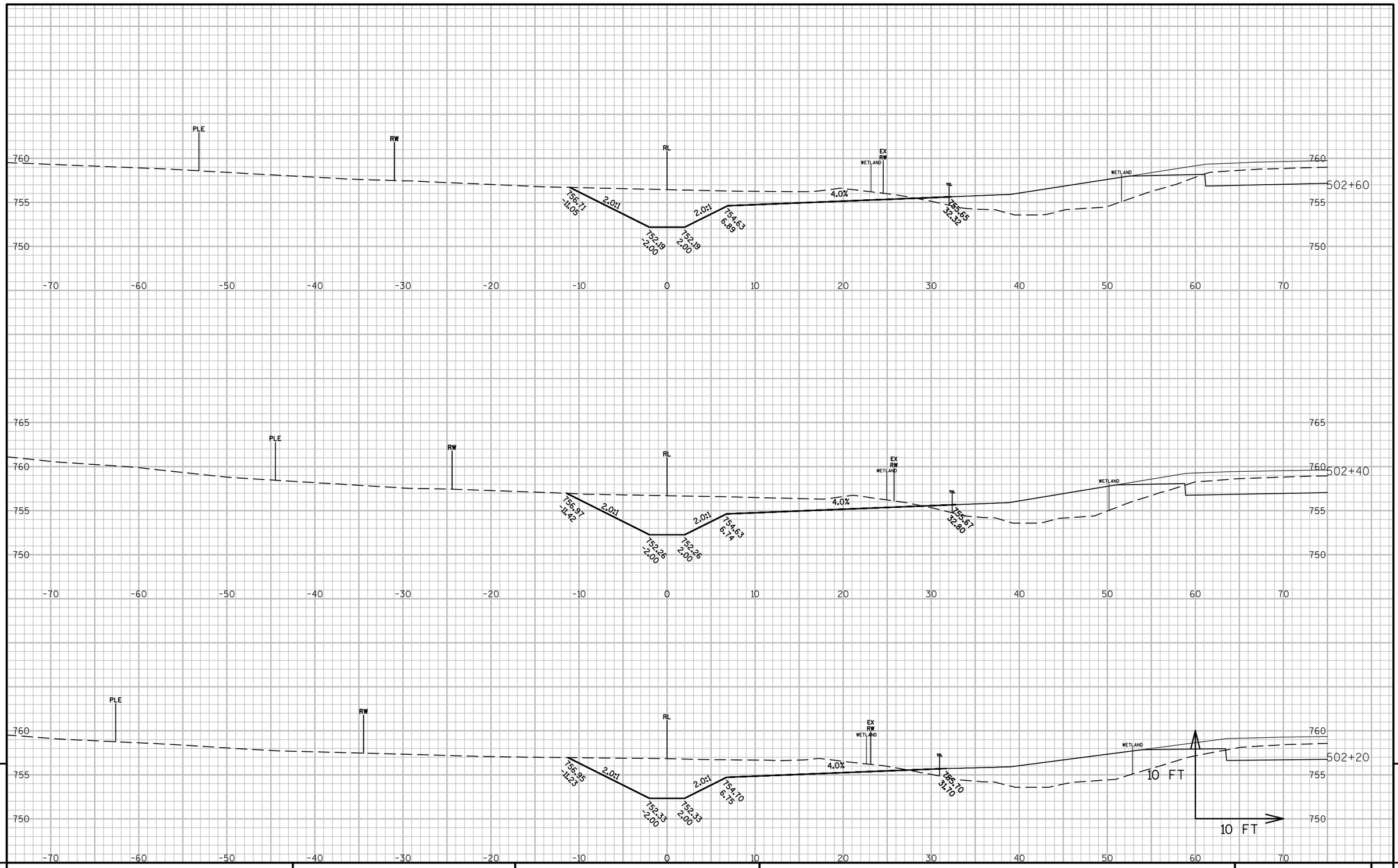
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: C-51-023	SHEET 630	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS NORTHERN STREAM.DWG
LAYOUT NAME - SECTION SHEET - (2)

PLOT DATE : 11/30/2016 10:18 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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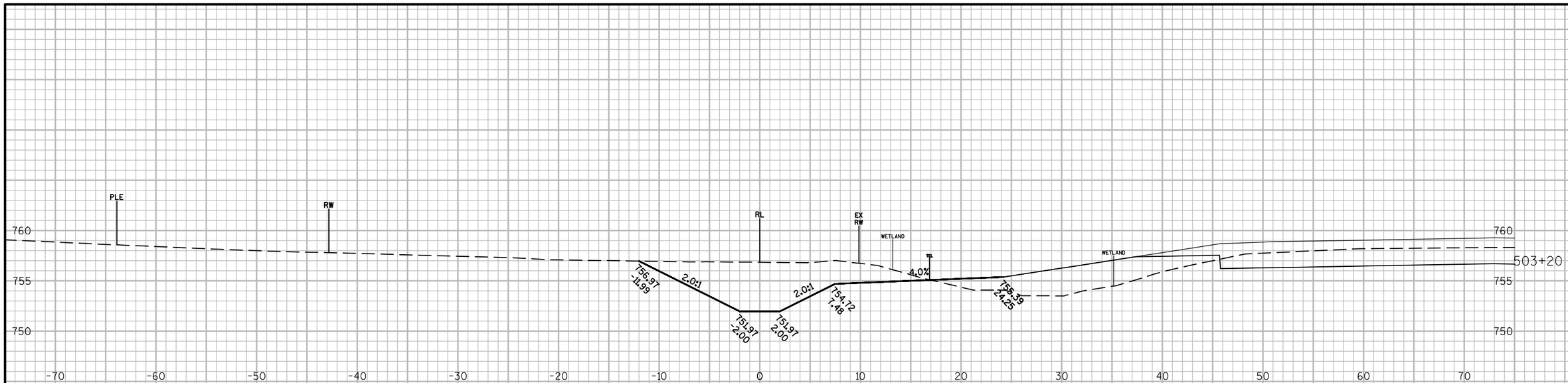
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: C-51-023	SHEET 631	E

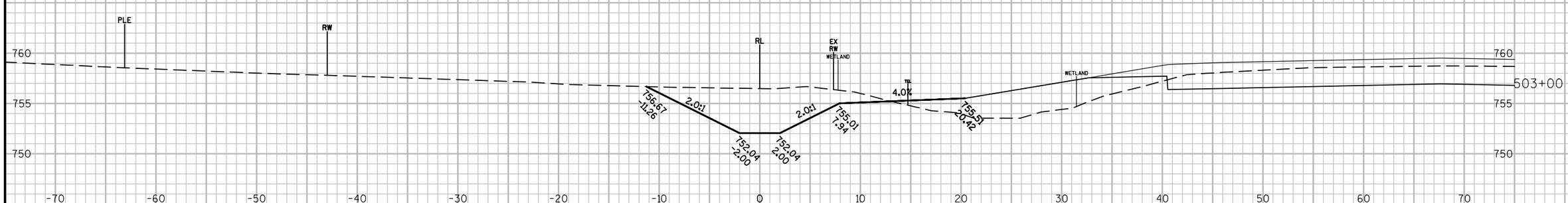
FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS NORTHERN STREAM.DWG
LAYOUT NAME - SECTION SHEET - (3)

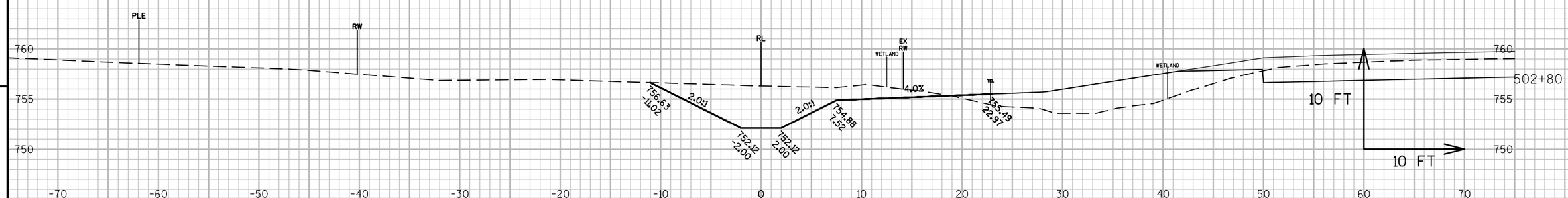
PLOT DATE : 11/30/2016 10:18 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49







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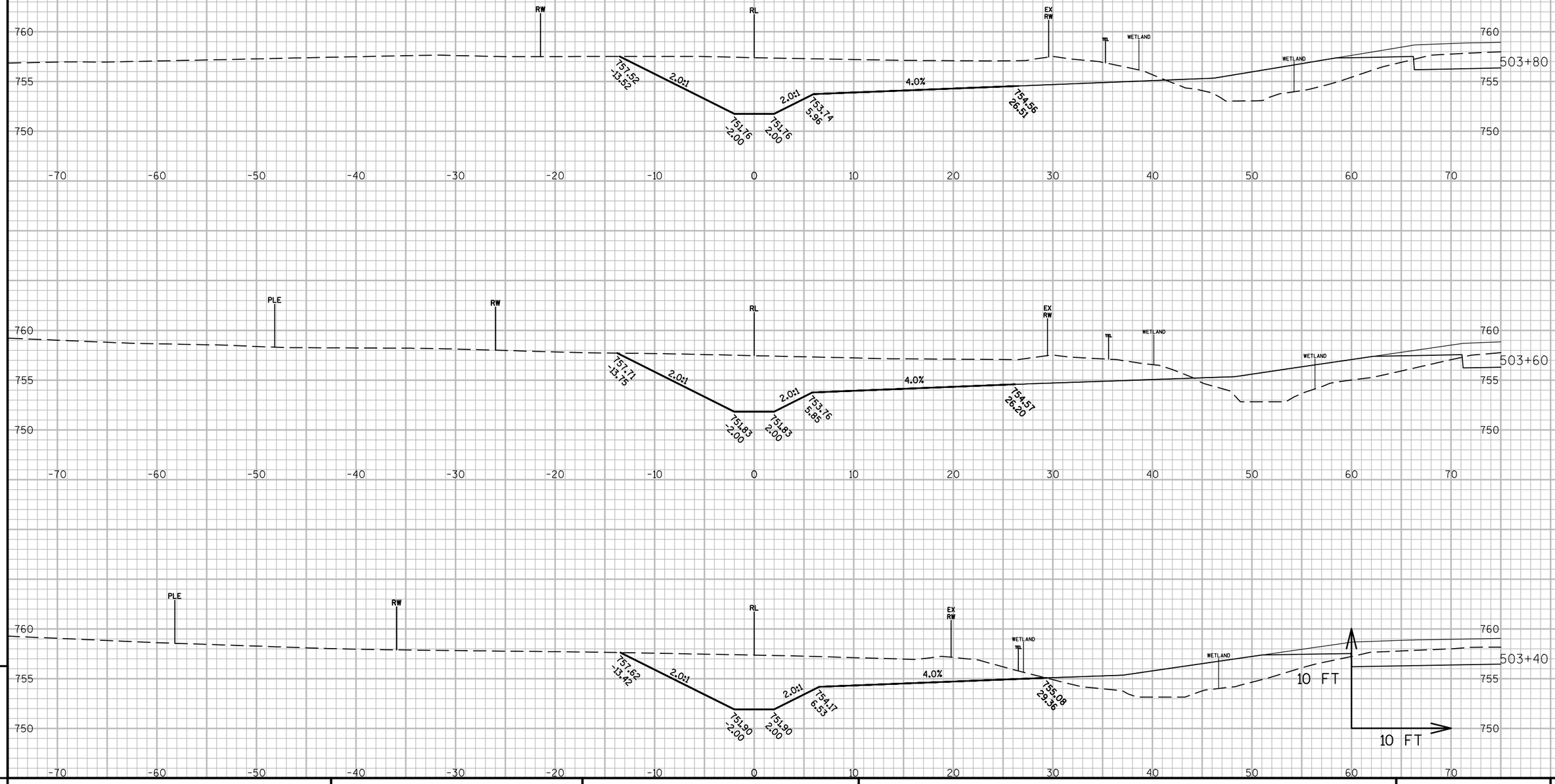
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: C-51-023	SHEET 632	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS NORTHERN STREAM.DWG
LAYOUT NAME - SECTION SHEET - (4)

PLOT DATE : 11/30/2016 10:18 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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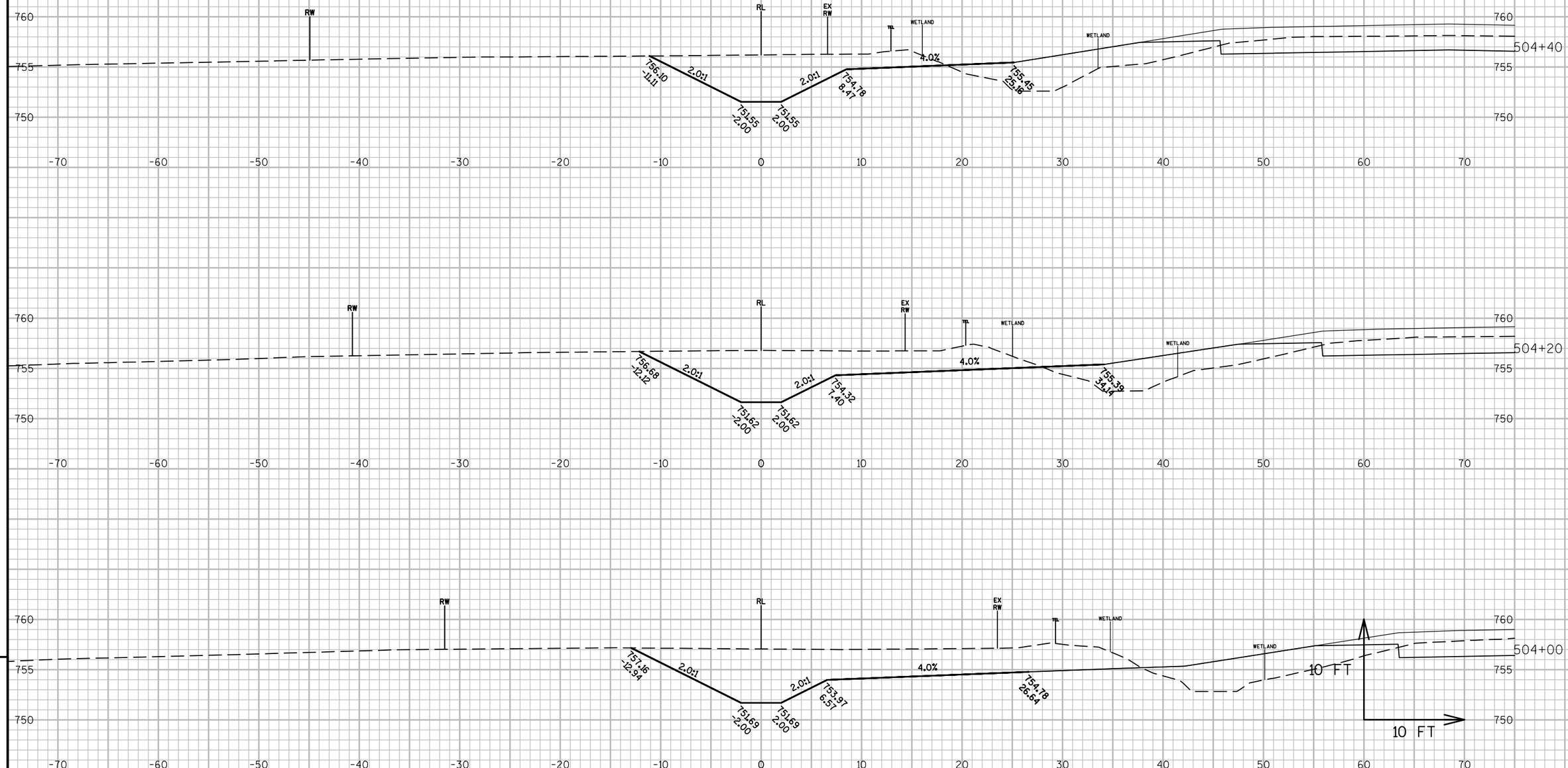
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: C-51-023	SHEET 633	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS NORTHERN STREAM.DWG
LAYOUT NAME - SECTION SHEET - (5)

PLOT DATE : 11/30/2016 10:19 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:10 FT



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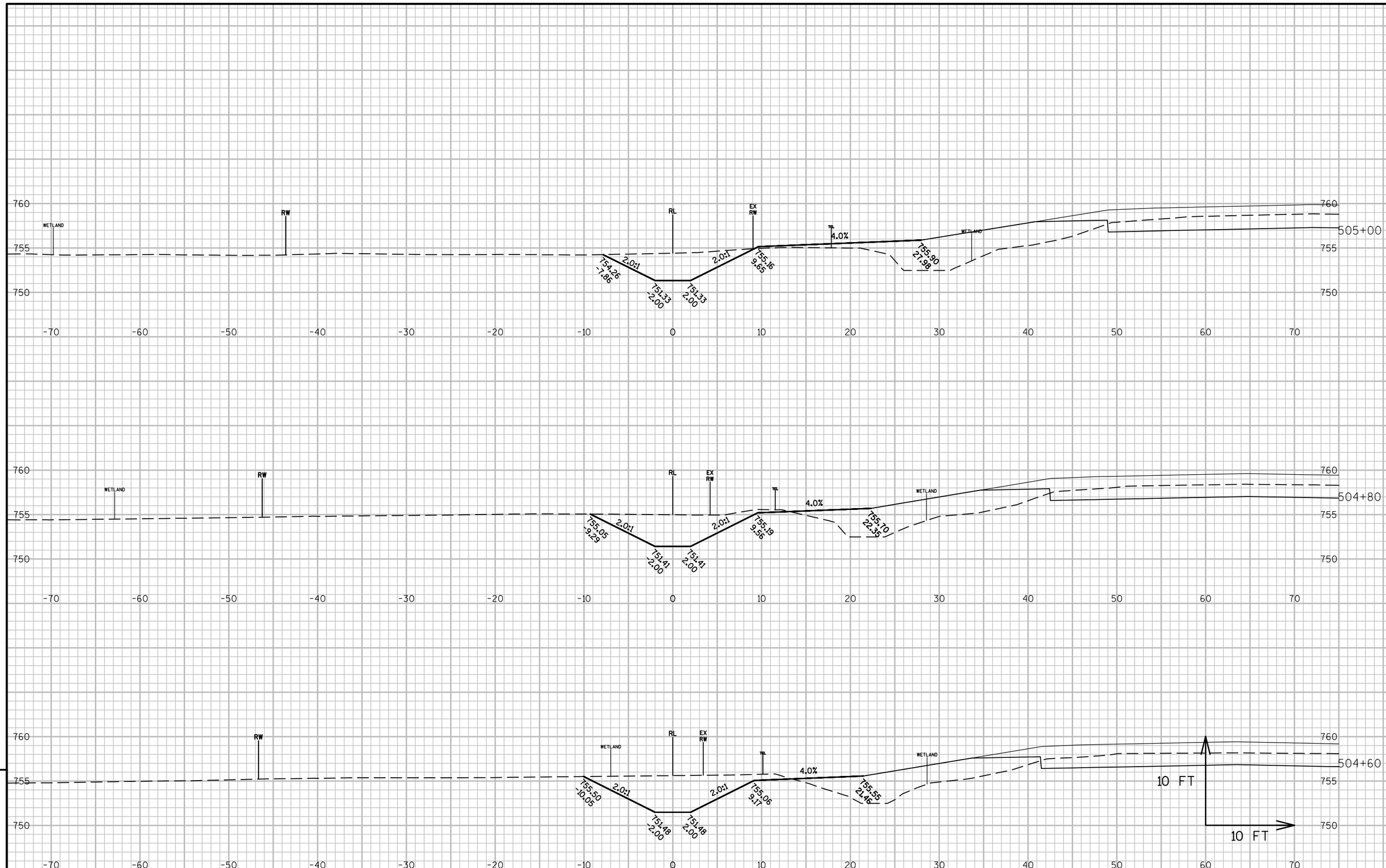
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: C-51-023	SHEET 634	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS NORTHERN STREAM.DWG
LAYOUT NAME - SECTION SHEET - (6)

PLOT DATE : 11/30/2016 10:19 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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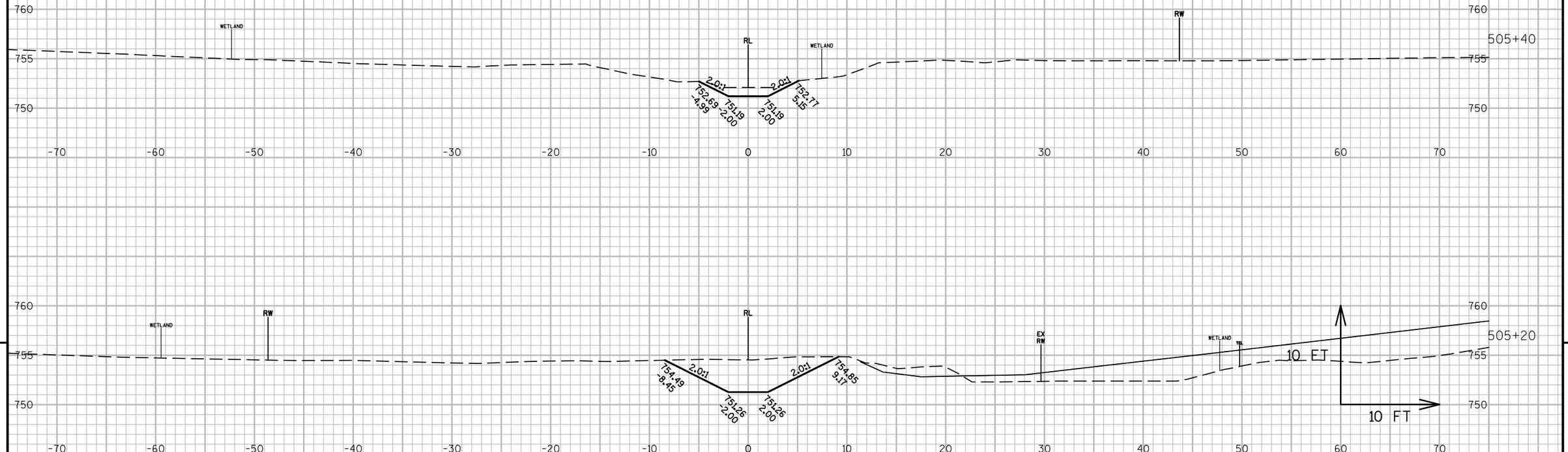
PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: C-51-023	SHEET 635	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS NORTHERN STREAM.DWG
LAYOUT NAME - SECTION SHEET - (7)

PLOT DATE : 11/30/2016 10:19 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:10 FT



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9

PROJECT NO: 2430-06-70	HWY: USH 45	COUNTY: RACINE	CROSS SECTIONS: C-51-023	SHEET 636	E

FILE NAME : N:\PDS\C3D\24300600\SHEETSPLAN\DWG\09B - CROSS SECTIONS\090201_XS NORTHERN STREAM.DWG
LAYOUT NAME - SECTION SHEET - (8)

PLOT DATE : 11/30/2016 10:19 AM PLOT BY : GUENETTE, JEFFREY J PLOT NAME :

PLOT SCALE : 1 IN:10 FT

Notes

Wisconsin Department of Transportation

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