WIS

FEBRUARY 2021

PROJECT ID: 6414-00-79

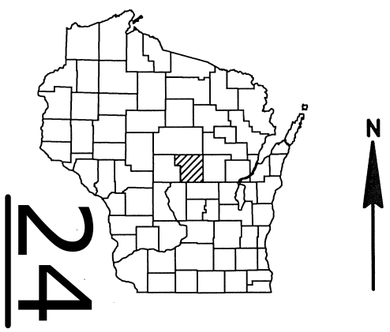
WITH: 6414-00-89

COUNTY: PORTAGE

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 = 368



DESIGN DESIGNATION DESIGN_DESIG_PROJECT#

A.A.D.T.	2018	=	13,000
A.A.D.T.	2038	=	15,200
D.H.V.		=	1,690
D.D.		=	59/41%
T.		=	6.7% ADT
DESIGN SPEED		=	40 MPH
ESALS		=	3,275,750

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- 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

VILLAGE OF PLOVER, POST ROAD

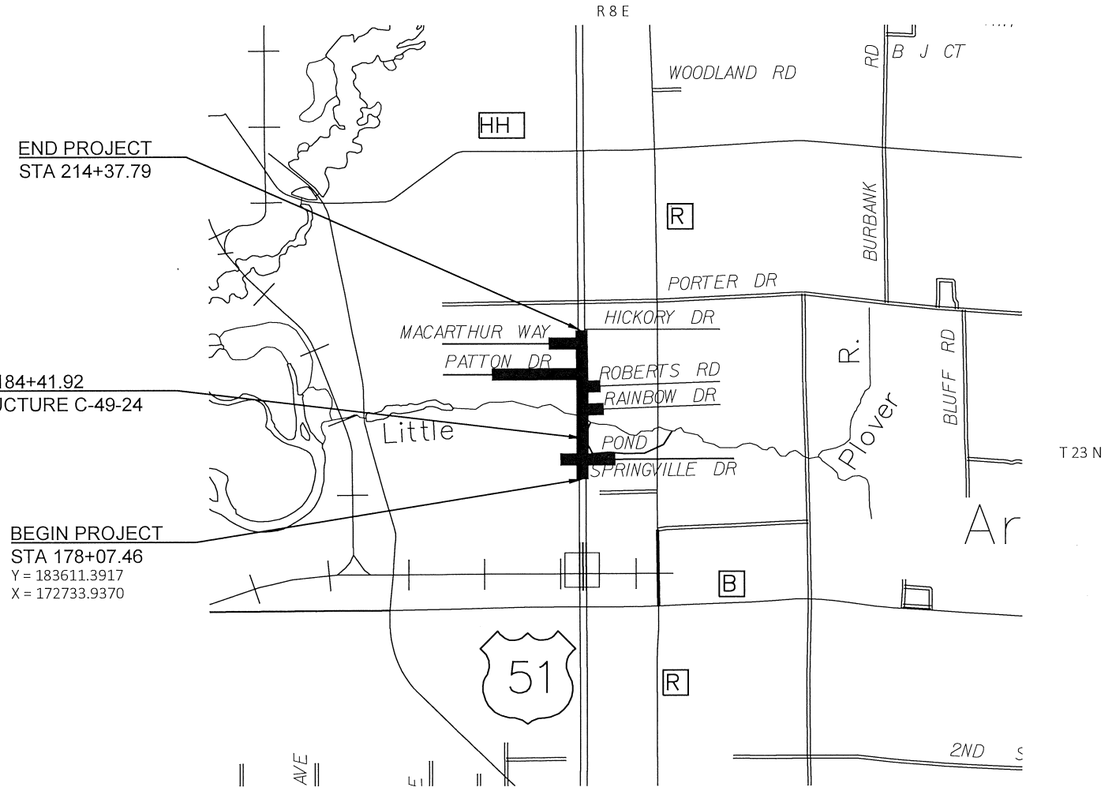
SPRINGVILLE DRIVE - TOMMY'S TURNPIKE

BUSINESS 51

PORTAGE COUNTY

STATE PROJECT NUMBER
6414-00-79

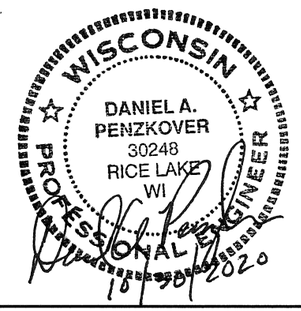
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6414-00-79	WISC 2021182	1



TOTAL NET LENGTH OF CENTERLINE = 0.687 MI

COORDINATES ON THIS PLAN REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), PORTAGE COUNTY. ELEVATIONS ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1998 NAVD 88.

ORIGINAL PLANS PREPARED BY:
SHORT ELLIOTT HENDRICKSON INC.



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	SEH
Designer	SEH
Project Manager	JEFF STEWART
Regional Examiner	CHERYL SIMON
Regional Supervisor	NICHOLE LYSNE

APPROVED FOR THE DEPARTMENT

DATE: 10/28/2020 (Signature)

E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\010101 TI.DWG

PLOT DATE : 10/14/2020 7:53 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

ORDER OF TYPICAL SECTION AND DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS (INCLUDES EROSION CONTROL PLANS)
INTERSECTION DETAILS
PLAN DETAIL
EROSION CONTROL
STORM SEWER
PERMANENT SIGNING
LIGHTING PLAN
PAVEMENT MARKING
TRAFFIC CONTROL
ALIGNMENT DIAGRAM

GENERAL NOTES

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

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

ALL CURB AND GUTTER RADII, PAVEMENT DIMENSIONS AND STATIONS ARE SHOWN TO THE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

CONSTRUCT INSIDE EDGE OF SIDEWALK 1-INCH HIGHER THAN THE TOP OF CURB, WHEN THEY ARE ADJACENT TO EACH OTHER.

TOP OF CASTING ELEVATIONS SHOWN FOR INLETS REFER TO THE DEPRESSED GUTTER FLOWLINE.

ALL STORM SEWER INVERTS, ELEVATIONS, PIPE LENGTHS, AND GRADES ARE COMPUTED CENTER-TO-CENTER OF STRUCTURES.

CURB RAMP TYPES ARE SHOWN ON THE PLAN AND PROFILE SHEETS.

PLACE ALL TOPSOIL 1/2-INCH TO 1-INCH BELOW CONCRETE SIDEWALK, CURB AND PAVEMENT EDGES.

RUNOFF COEFFICIENT TABLE

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

TOTAL PROJECT AREA = 14.96 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 13.01 ACRES

UTILITY CONTACTS

CHUCK BARTELT
AT&T WISCONSIN-COMMUNICATION LINE
70 E DIVISION STREET
FOND DU LAC, WI 54935
(920) 929-1013 (OFFICE)
(920) 410-5104 (MOBILE)
CB1461@ATT.COM

RUDI RUDIGER
CHARTER COMMUNICATIONS-COMMUNICATION LINE
5024 HEFFRON STREET
STEVENS POINT, WI 54481
(715) 204-5339
RUDI.RUDIGER@CHARTER.COM

RICH BODEN
VILLAGE OF PLOVER-SEWER
4496 COOLIDGE AVENUE
PLOVER, WI 54467
(715) 345-5259 (OFFICE)
(715) 340-2417 (MOBILE)
RBODEN@PLOVERWI.GOV

MATT SALOUN
VILLAGE OF PLOVER-WATER
2400 POST ROAD
PLOVER, WI 54467
(715) 345-5254 (OFFICE)
(715) 347-9463 (MOBILE)
MSALOUN@PLOVERWI.GOV

DON LUTZOW
WISCONSIN PUBLIC SERVICE CORPORATION-ELECTRICITY
1700 SHERMAN STREET
PO BOX 1166
WAUSAU, WI 54402-1166
(715) 848-7487 (OFFICE)
(507) 848-4211 (MOBILE)
DONALDLUTZOW@WISCONSINPUBLICSERVICE.COM

STEVE BONECK
WISCONSIN PUBLIC SERVICE CORPORATION-GAS/PETROLEUM
3300 NORTH MAIN STREET
OSHKOSH, WI 54901
(920) 236-5918 (OFFICE)
(920) 606-3338 (MOBILE)
STEVE.BONECK@WISCONSINPUBLICSERVICE.COM

DNR CONTACT

CASEY JONES
WISCONSIN RAPIDS SERVICE CENTER
473 GRIFFITH AVENUE
WISCONSIN RAPIDS, WI 54494
(715) 213-6571
casey.jones@wisconsin.gov

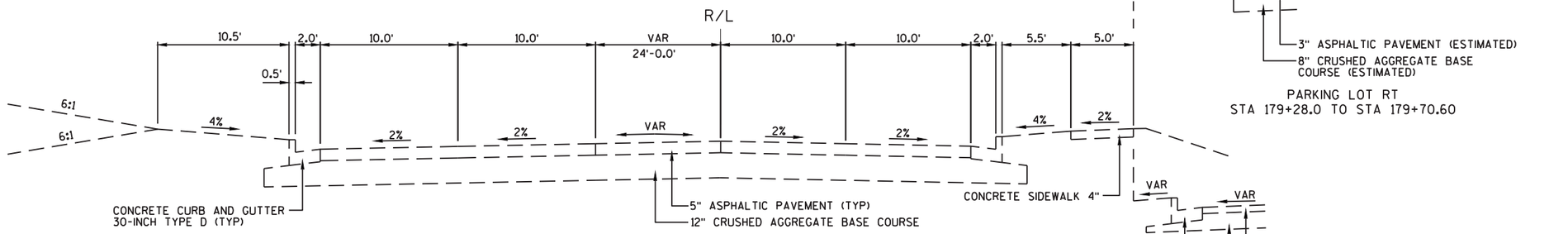
DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

2



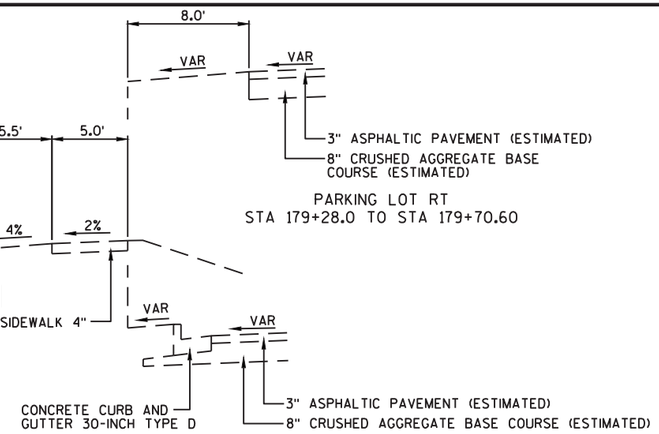
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\020201 PO.DWG
LAYOUT NAME - PO
PLOT DATE : 10/23/2020 7:05 AM
PLOT BY : ANNIE M. JEROME
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42



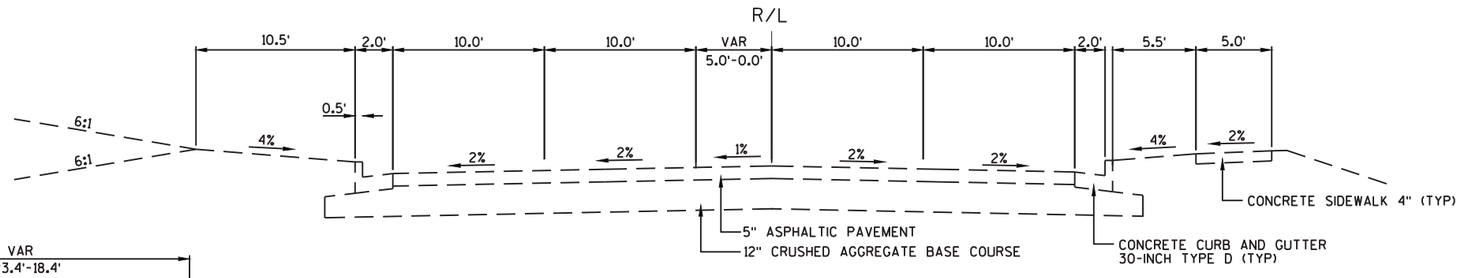
TYPICAL EXISTING SECTION

BUSINESS 51
STA 178+07.46 TO STA 179+70.60



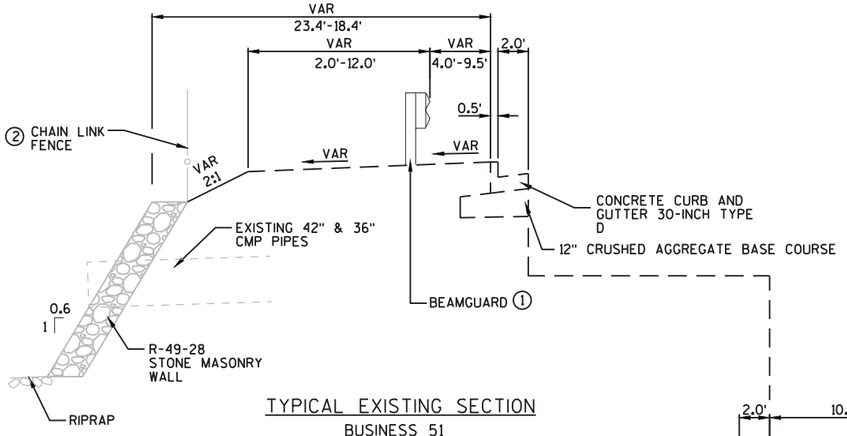
PARKING LOT RT
STA 179+28.0 TO STA 179+70.60

PARKING LOT RT
STA 179+00.0 TO STA 179+20.2



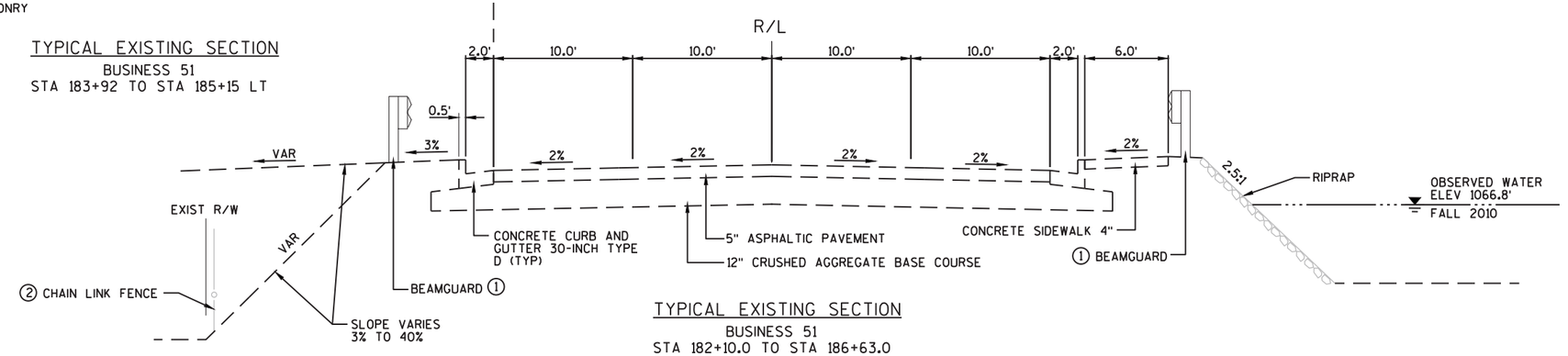
TYPICAL EXISTING SECTION

BUSINESS 51
STA 179+70.6 TO STA 182+10.0
STA 186+63.0 TO STA 208+50.0



TYPICAL EXISTING SECTION

BUSINESS 51
STA 183+92 TO STA 185+15 LT



TYPICAL EXISTING SECTION

BUSINESS 51
STA 182+10.0 TO STA 186+63.0

NOTES:

① EXISTING BEAMGUARD LOCATIONS:

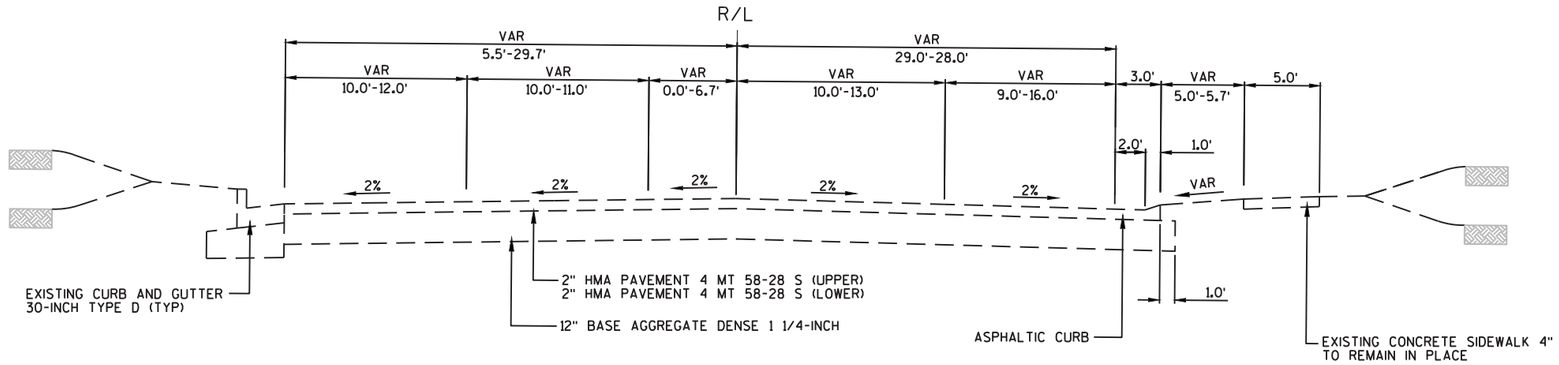
STA 182+57.0 TO STA 186+63.0 LT
STA 182+60.0 TO STA 185+82.0 RT

② EXISTING CHAIN LINK FENCE LOCATIONS:

STA 182+25 TO STA 183+98 LT
STA 183+92 TO STA 185+15 LT
STA 185+15 TO STA 185+81 LT

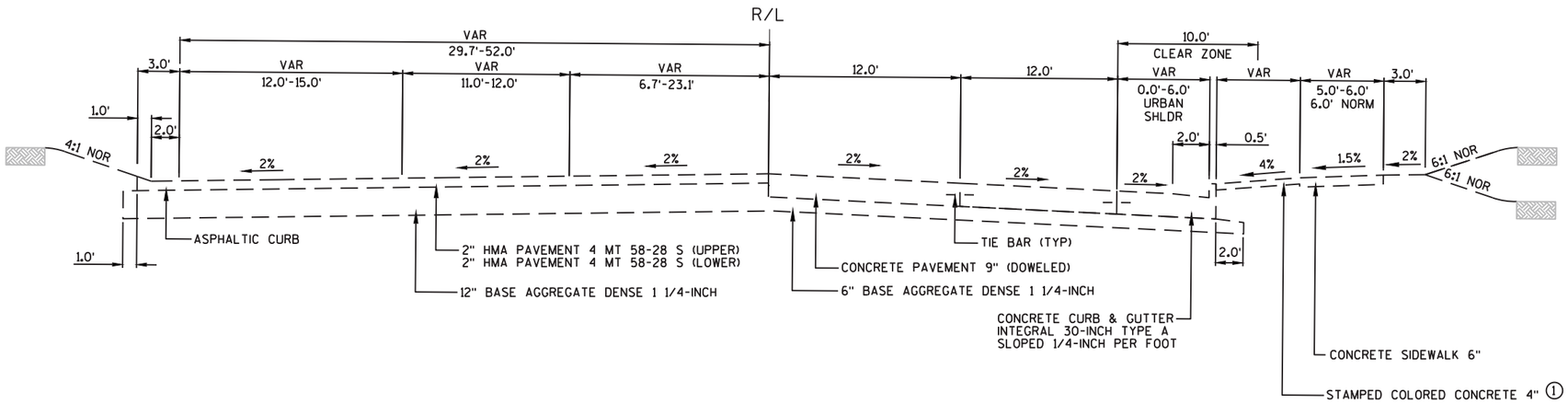
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TYPICAL SECTIONS	SHEET 4	E

2



TYPICAL EXISTING SECTION

BUSINESS 51
STA 208+50.00 TO STA 211+57.50



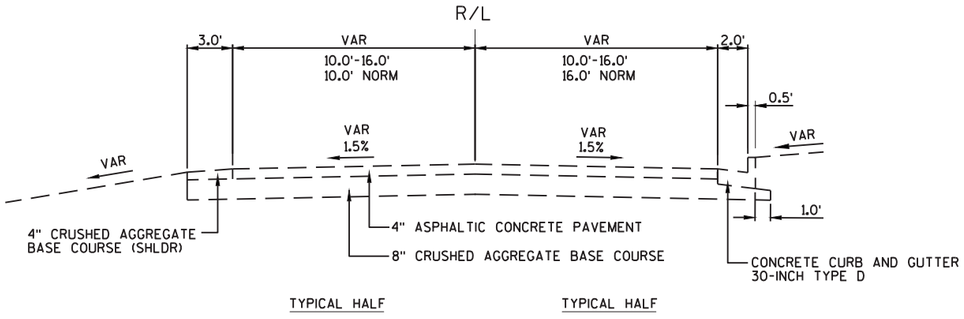
TYPICAL EXISTING SECTION

BUSINESS 51
STA 211+57.50 TO STA 214+37.79

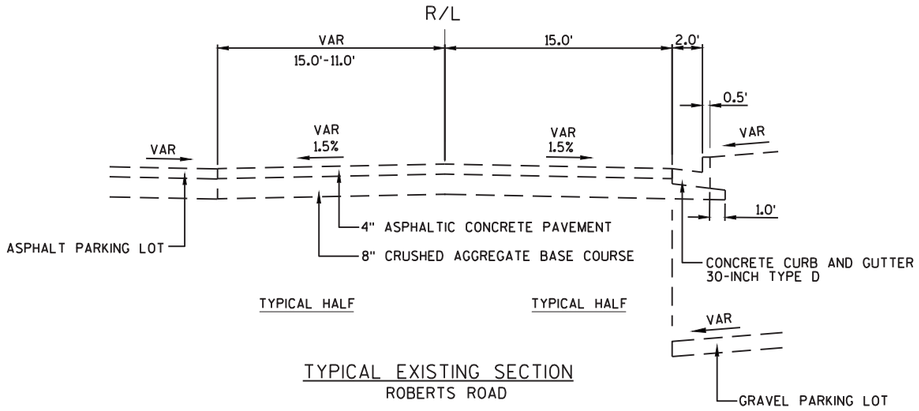
NOTES:

① STAMPED COLORED CONCRETE 4-INCH BEGINS AT STA 213+11.5 RT.

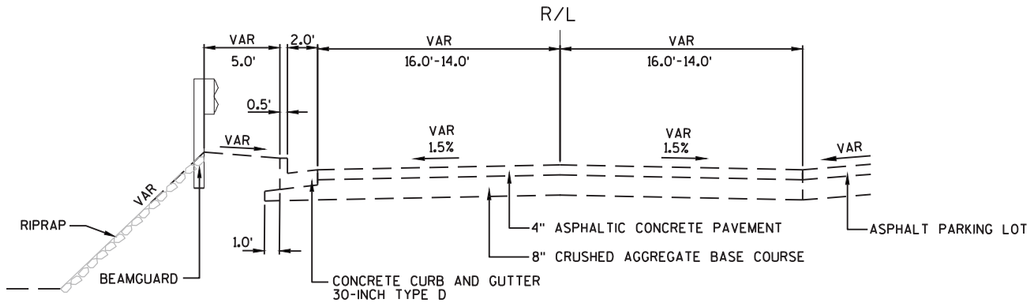
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TYPICAL SECTIONS	SHEET 5	E



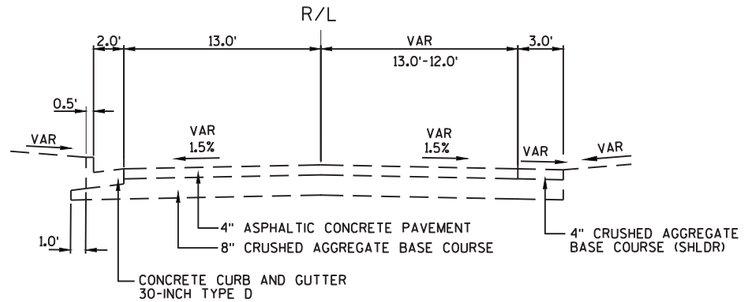
TYPICAL EXISTING SECTION
SPRINGVILLE DRIVE (WEST)



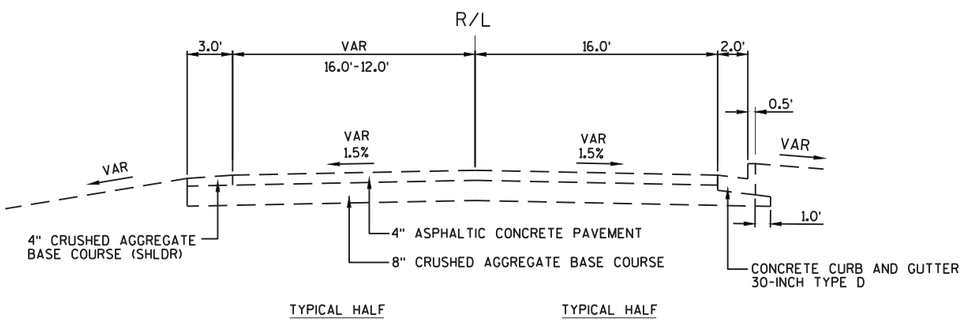
TYPICAL EXISTING SECTION
ROBERTS ROAD



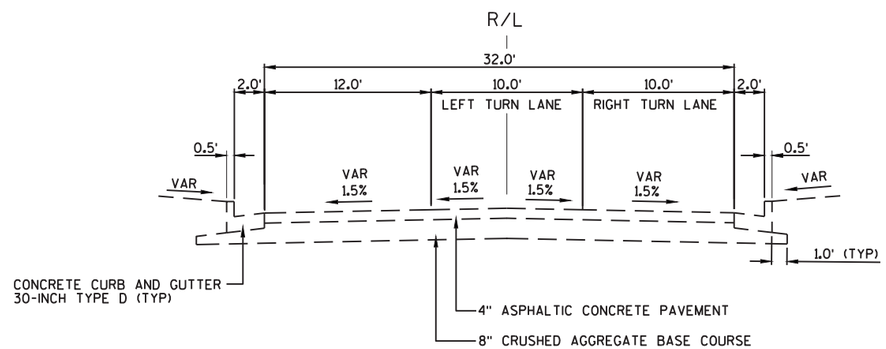
TYPICAL EXISTING SECTION
SPRINGVILLE DRIVE (EAST)



TYPICAL EXISTING SECTION
PATTON DRIVE



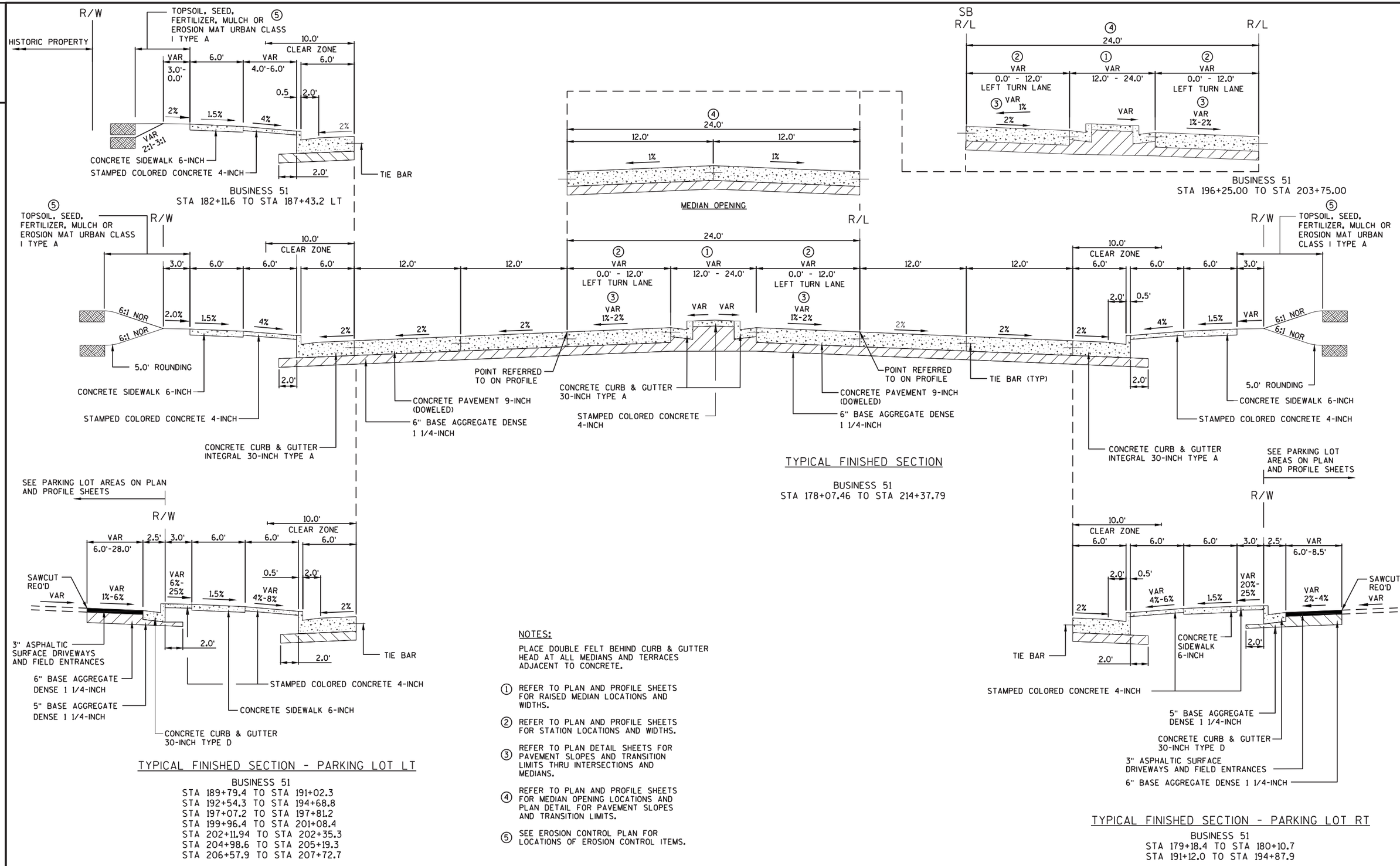
TYPICAL EXISTING SECTION
RAINBOW DRIVE



TYPICAL EXISTING SECTION
MACARTHUR WAY

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TYPICAL SECTIONS	SHEET 6	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\020301 TS.DWG
LAYOUT NAME - 03
PLOT DATE : 10/23/2020 7:05 AM
PLOT BY : ANNIE M. JEROME
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



TYPICAL FINISHED SECTION - PARKING LOT LT

BUSINESS 51
STA 189+79.4 TO STA 191+02.3
STA 192+54.3 TO STA 194+68.8
STA 197+07.2 TO STA 197+81.2
STA 199+96.4 TO STA 201+08.4
STA 202+11.94 TO STA 202+35.3
STA 204+98.6 TO STA 205+19.3
STA 206+57.9 TO STA 207+72.7

TYPICAL FINISHED SECTION

BUSINESS 51
STA 178+07.46 TO STA 214+37.79

TYPICAL FINISHED SECTION - PARKING LOT RT

BUSINESS 51
STA 179+18.4 TO STA 180+10.7
STA 191+12.0 TO STA 194+87.9

NOTES:

PLACE DOUBLE FELT BEHIND CURB & GUTTER HEAD AT ALL MEDIANS AND TERRACES ADJACENT TO CONCRETE.

① REFER TO PLAN AND PROFILE SHEETS FOR RAISED MEDIAN LOCATIONS AND WIDTHS.

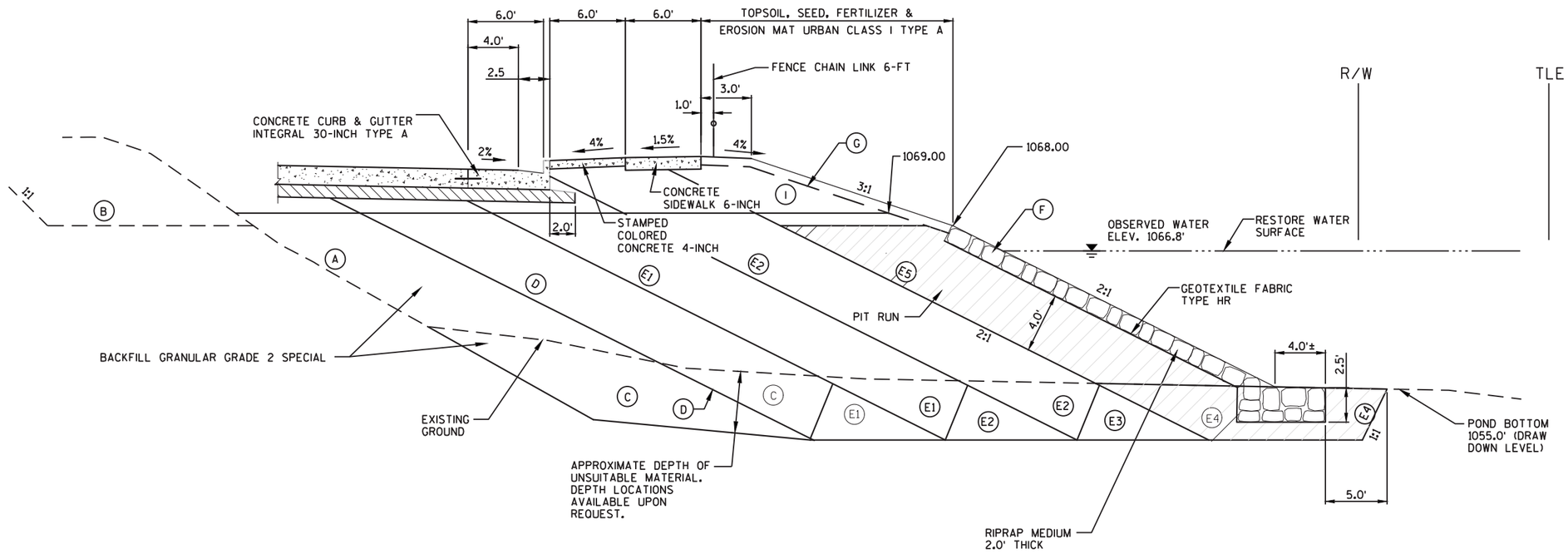
② REFER TO PLAN AND PROFILE SHEETS FOR STATION LOCATIONS AND WIDTHS.

③ REFER TO PLAN DETAIL SHEETS FOR PAVEMENT SLOPES AND TRANSITION LIMITS THRU INTERSECTIONS AND MEDIANS.

④ REFER TO PLAN AND PROFILE SHEETS FOR MEDIAN OPENING LOCATIONS AND PLAN DETAIL FOR PAVEMENT SLOPES AND TRANSITION LIMITS.

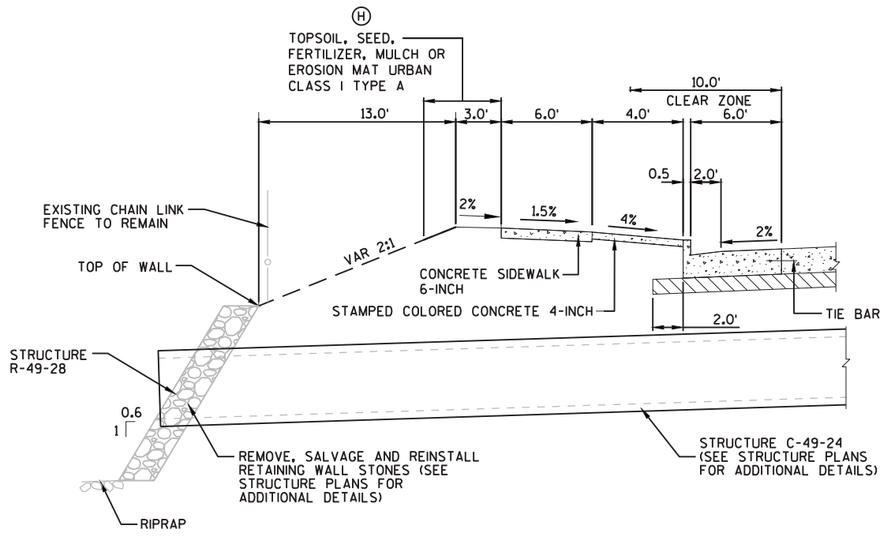
⑤ SEE EROSION CONTROL PLAN FOR LOCATIONS OF EROSION CONTROL ITEMS.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TYPICAL SECTIONS	SHEET 7	E



TYPICAL HALF FINISHED SECTION - SPRINGVILLE POND

BUSINESS 51
STA 182+75.00 TO STA 186+50.00 (RIGHT)



TYPICAL HALF FINISHED SECTION

SPRINGVILLE POND
STA 183+93.00 TO STA 185+15.00 (LEFT)

SPRINGVILLE POND NOTES:

E4, E5 - BACKFILL WITH PIT RUN

(A) REMOVE TOPSOIL FROM SLOPES. PAID AS EXCAVATION COMMON.

(B) EXCAVATE A RAMP AND BENCH INTO THE EXISTING FILL TO 2 FEET ABOVE WATER ELEVATION TO ALLOW FOR STABLE EQUIPMENT ACCESS WHILE MAINTAINING SAFE SLOPE AND SEPARATION FROM TRAFFIC. PAYMENT WILL BE INCIDENTAL TO BACKFILL GRANULAR GRADE 2 SPECIAL ITEM.

(C) REMOVE UNSTABLE MATERIAL AS FAR OUT AS EQUIPMENT CAN PRACTICALLY REACH FROM BENCH, WORKING DOWN SHORELINE.

(D) REPLACE EXCAVATED MATERIAL SEGMENTALLY WITH BACKFILL GRANULAR GRADE 2 SPECIAL.

(E) PROGRESSIVELY REPEAT (C) AND (D).

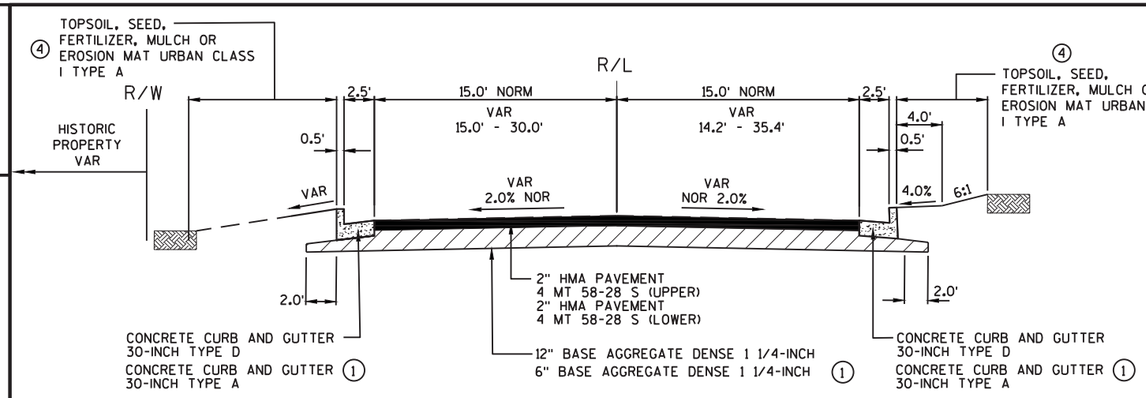
(F) PLACE RIPRAP MEDIUM TO THE DESIGN ELEVATION, FILL VOIDS OF RIPRAP WITH BASE AGGREGATE OPEN-GRADED INCLUDING RIPRAP FROM ELEV 1068.0 TO 1064.0.

(G) PLACE GEOTEXTILE FABRIC TYPE HR BETWEEN BACKFILL GRANULAR GRADE 2 AND TOPSOIL.

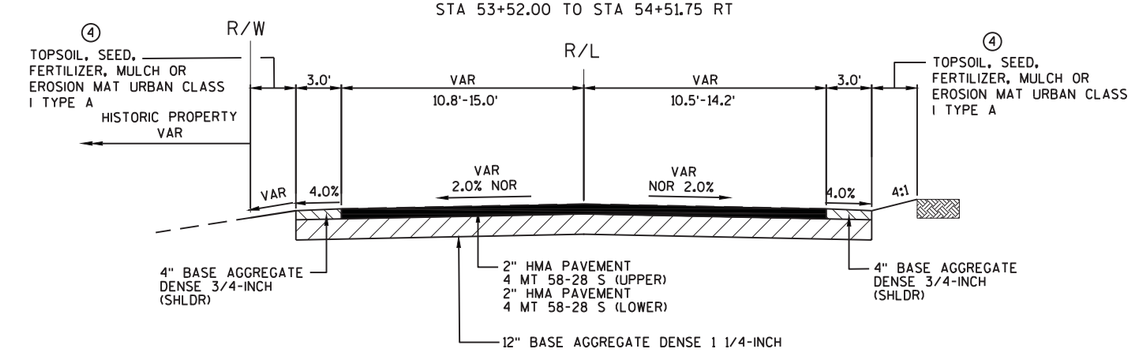
(H) SEE EROSION CONTROL PLAN FOR LOCATIONS OF EROSION CONTROL ITEMS.

(I) USE BACKFILL GRANULAR GRADE 2 ABOVE ELEVATION 1069.00'.

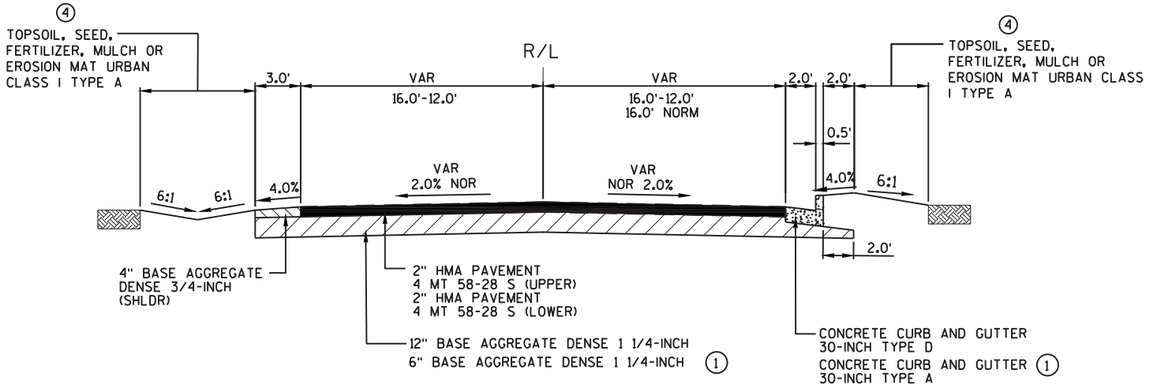
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TYPICAL SECTIONS	SHEET 8	E



TYPICAL FINISHED SIDEROAD SECTION
SPRINGVILLE DRIVE (WEST)
STA 53+88.00 TO STA 54+51.75 LT
STA 53+52.00 TO STA 54+51.75 RT

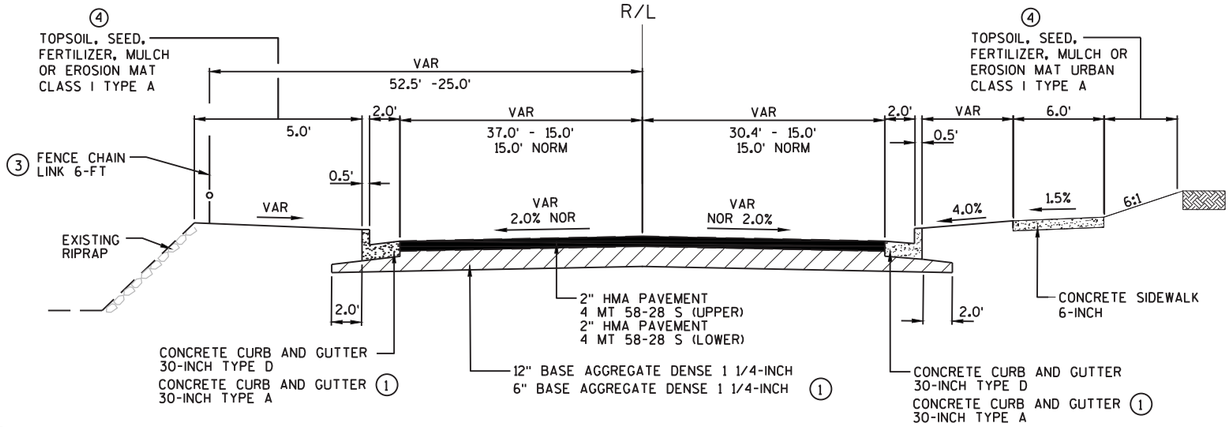


TYPICAL FINISHED SIDEROAD SECTION
SPRINGVILLE DRIVE (WEST)
STA 53+00.00 TO STA 53+88.00 LT
STA 53+00.00 TO STA 53+52.00 RT

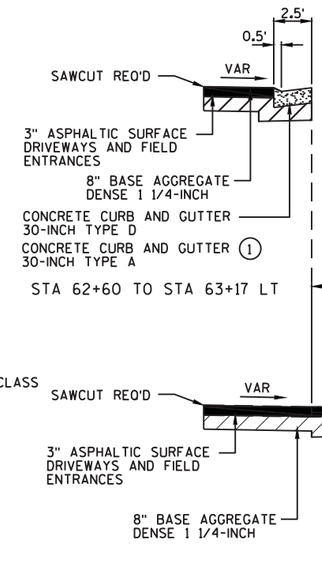


TYPICAL HALF TYPICAL HALF

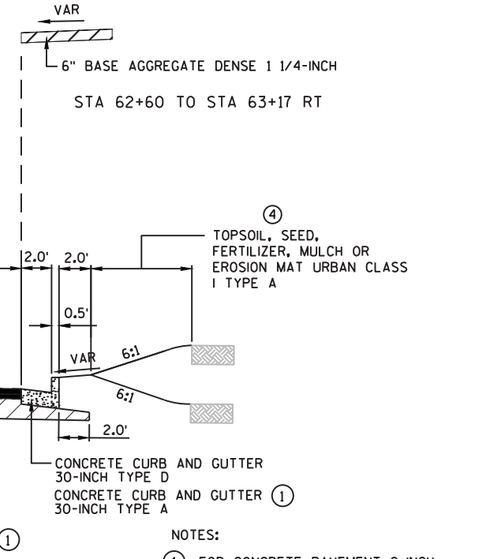
TYPICAL FINISHED SIDEROAD SECTION
RAINBOW DRIVE
STA 60+24.00 TO STA 61+32.20



TYPICAL FINISHED SIDEROAD SECTION
SPRINGVILLE DRIVE (EAST)
STA 55+24.13 TO STA 57+09.00



STA 62+60 TO STA 63+17 LT



TYPICAL HALF TYPICAL HALF

TYPICAL FINISHED SIDEROAD SECTION
ROBERTS ROAD
STA 62+24.31 TO STA 63+45.00

NOTES:

① FOR CONCRETE PAVEMENT 9-INCH, 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH AND CONCRETE CURB AND GUTTER 30-INCH TYPE A SEE PLAN AND PROFILE FOR STATION LOCATION & WIDTHS.

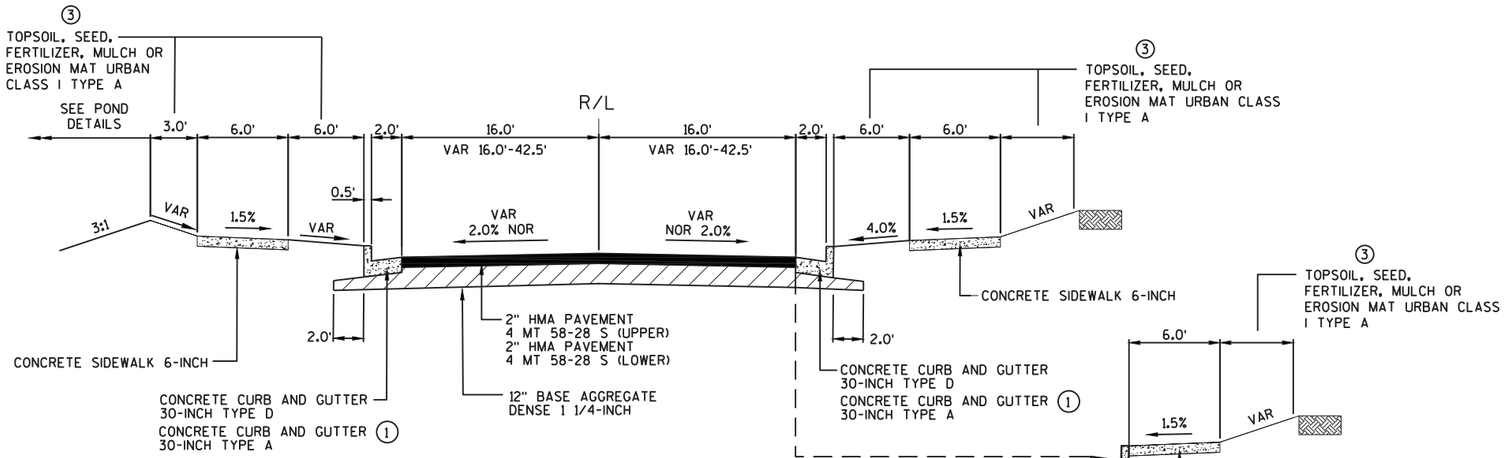
② SEE PLAN AND PROFILE FOR DRIVEWAY LOCATIONS AND WIDTHS.

PLACE DOUBLE FELT BEHIND CURB & GUTTER HEAD AT ALL MEDIAN AND TERRACES ADJACENT TO CONCRETE.

③ SEE PLAN AND PROFILE SHEETS FOR FENCE CHAIN LINK 6-FT LOCATIONS.

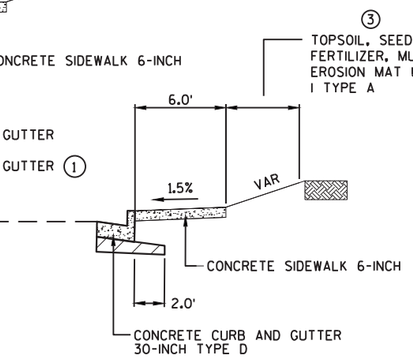
④ SEE EROSION CONTROL PLAN FOR LOCATIONS OF EROSION CONTROL ITEMS.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TYPICAL SECTIONS	SHEET 9	E



TYPICAL FINISHED SIDEROAD SECTION

PATTON DRIVE
STA 65+45.00 TO STA 69+52.00



STA 65+45.00 TO STA 65+93.46 LT&RT

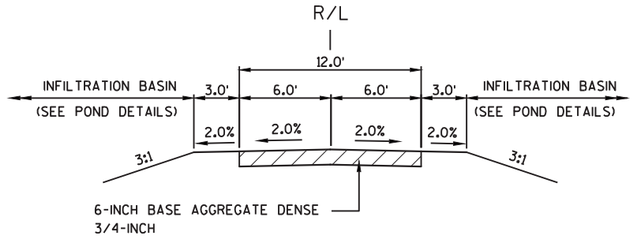
NOTES:

① FOR CONCRETE PAVEMENT 9-INCH, 6-INCH BASE AGGREGATE DENSE 1 1/4-INCH AND CONCRETE CURB AND GUTTER 30-INCH TYPE A SEE PLAN AND PROFILE FOR STATION LOCATION & WIDTHS.

② SEE PLAN AND PROFILE FOR DRIVEWAY LOCATIONS AND WIDTHS.

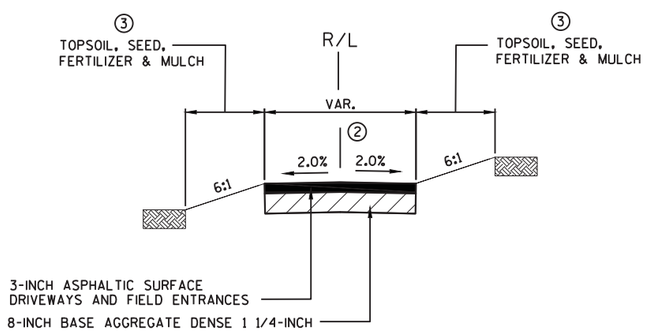
PLACE DOUBLE FELT BEHIND CURB & GUTTER HEAD AT ALL MEDIAN AND TERRACES ADJACENT TO CONCRETE.

③ SEE EROSION CONTROL PLANS FOR LOCATIONS OF EROSION CONTROL ITEMS.



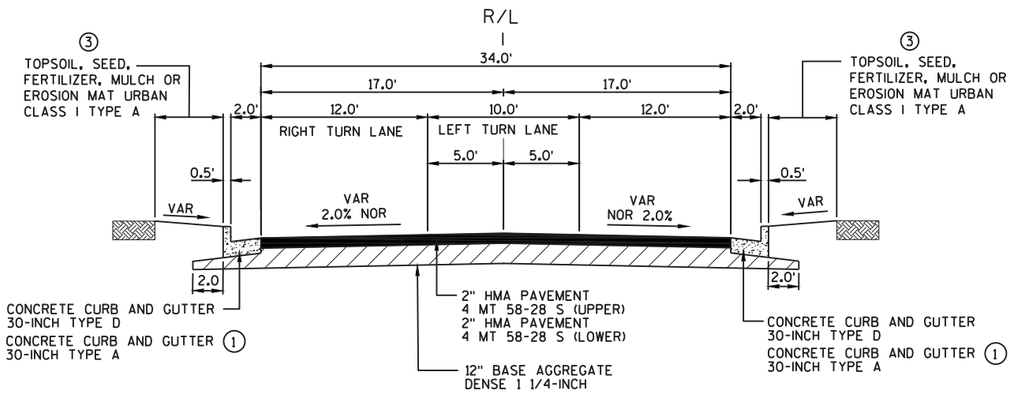
TYPICAL FINISHED DRIVEWAY SECTION

PATTON DRIVE
DRIVEWAY 1 67+58.0 LT



TYPICAL FINISHED DRIVEWAY SECTION

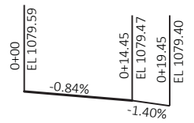
PATTON DRIVE
DRIVEWAY 2 67+40 RT
DRIVEWAY 3 68+50 RT



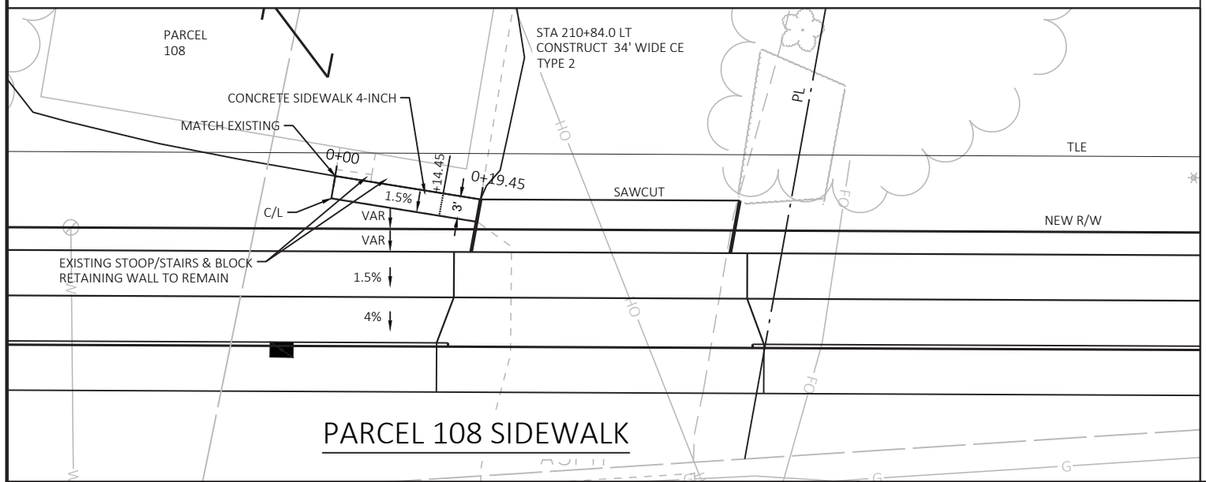
TYPICAL FINISHED SIDEROAD SECTION

MACARTHUR WAY
STA 73+42.00 TO STA 74+51.13

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TYPICAL SECTIONS	SHEET 10	E



PARCEL 108 SIDEWALK PROFILE



PARCEL 108 SIDEWALK

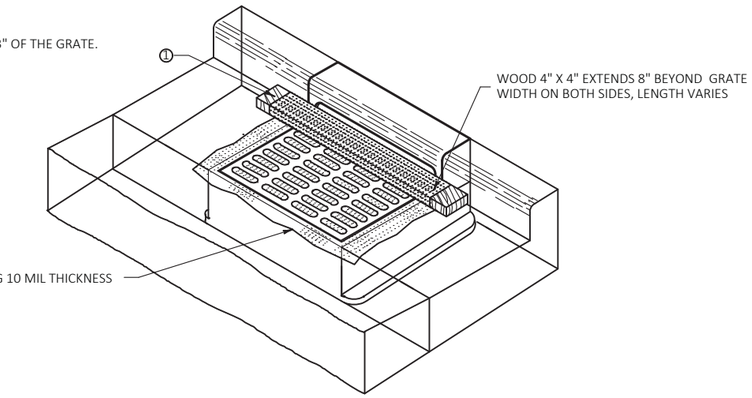
GENERAL NOTES:

TEMPORARY COVER SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

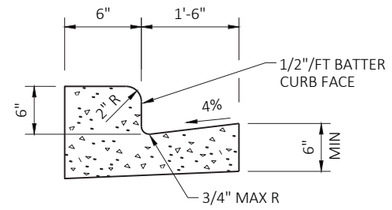
① FOR INLET PROTECTION, TYPE C (WITH A CURB BOX), AN ADDITIONAL 18" OF POLY SHEETING IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES OR SCREWS. THE WOOD SHALL BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

INSTALLATION NOTES:

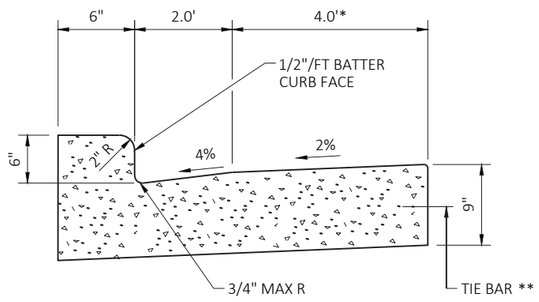
TYPE B & C
TRIM EXCESS POLY SHEETING IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.



TEMPORARY INLET COVERS POLYETHYLENE



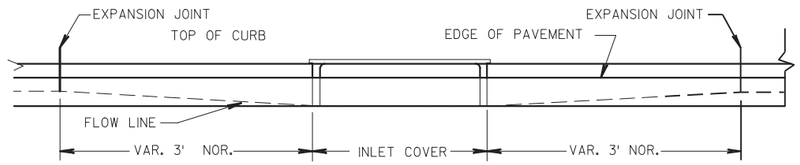
CONCRETE CURB & GUTTER
24-INCH TYPE D

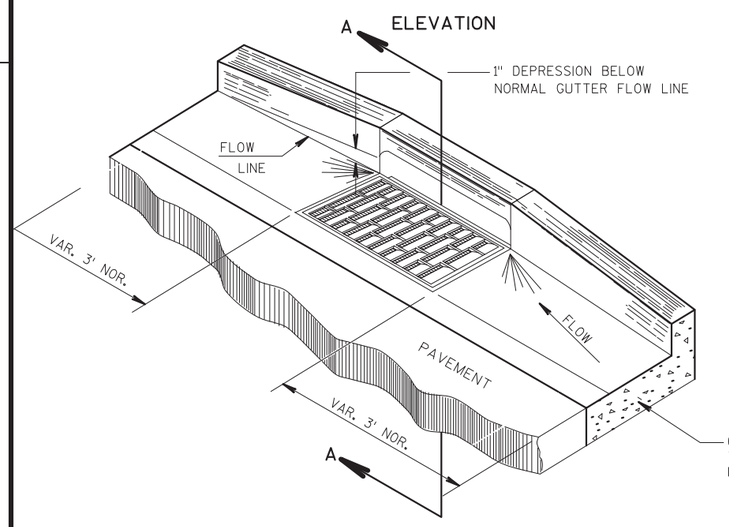


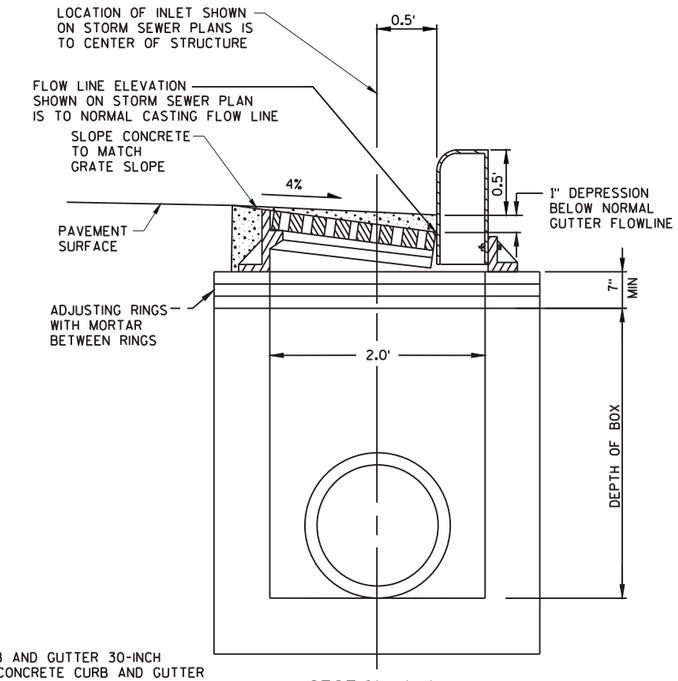
CONCRETE CURB & GUTTER
INTEGRAL 30-INCH TYPE A

NOTE:
* BEING PAID FOR AS CONCRETE PAVEMENT 9-INCH

** INCIDENTAL TO CONCRETE PAVEMENT

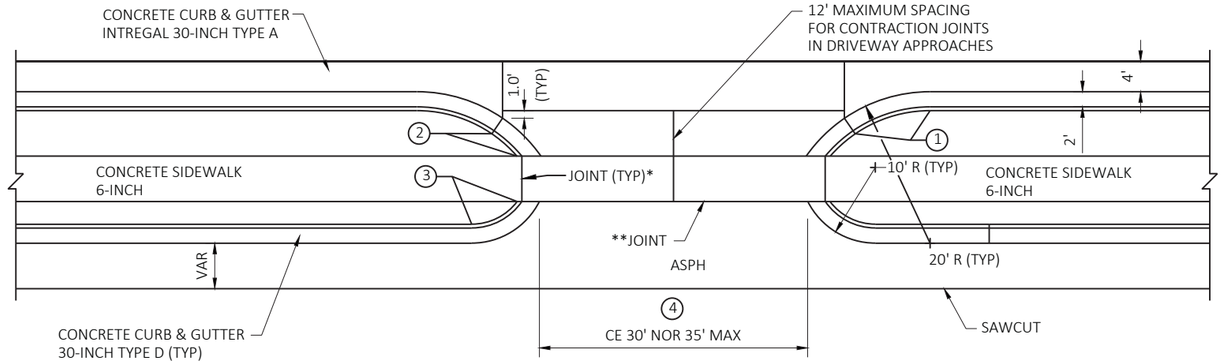






INLET

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CONSTRUCTION DETAILS	SHEET 11	E



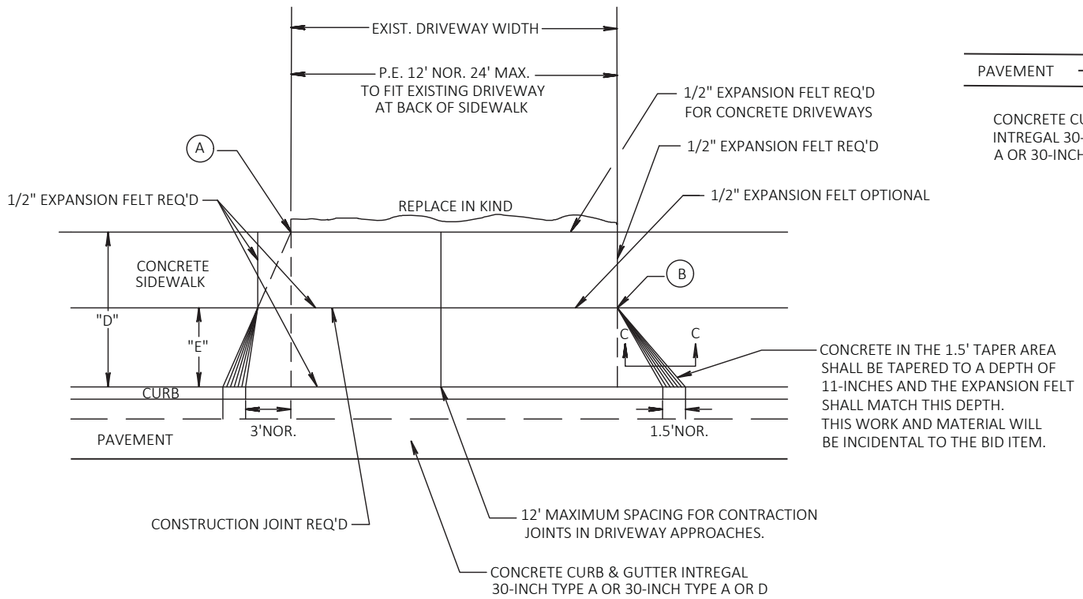
NOTES:

1. TAPER CURB HEAD FROM 6" TO 2" IN 6'-8' (TYP)
2. TAPER CURB HEAD FROM 2" TO 0" TO MATCH SIDEWALK FACE (TYP)
3. TAPER CURB HEAD FROM 6" TO 0" TO MATCH SIDEWALK BACK
4. SEE PLAN AND PROFILE SHEETS FOR DRIVEWAY WIDTHS
5. GUTTER PAN SLOPE IS 6.25% TO MATCH PREVIOUS PROJECT (PHASE 1)

* 1/2" EXPANSION FELT REQ'D

** 1/2" EXPANSION FELT REQ'D FOR CONCRETE DRIVEWAYS

COMMERCIAL ENTRANCE TYPE 1

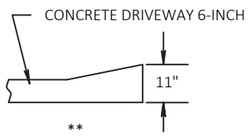


PLAN VIEW

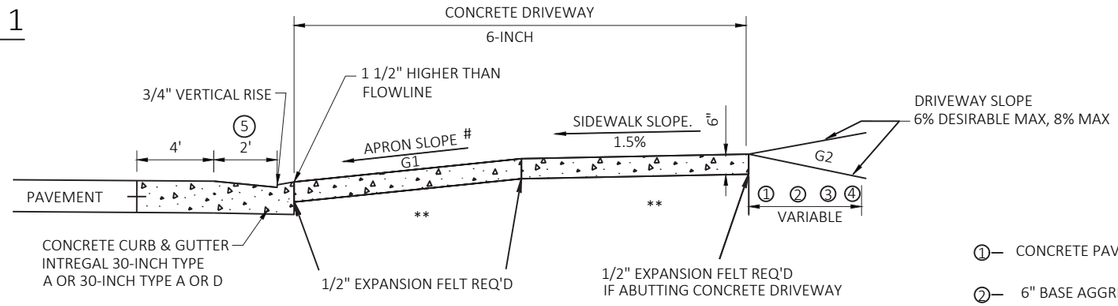
A WHEN "D" IS 13' OR LESS, ALIGN TAPER WITH BACK OF SIDEWALK

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

* WHEN "E" =0
MAKE CURB TAPER 5'



SECTION C-C



TYPICAL SIDEWALK SECTION

1. CONCRETE PAVEMENT 6-INCH
2. 6" BASE AGGREGATE DENSE 1 1/4-INCH
3. 6" COMPACTED BASE AGGREGATE DENSE
4. PARKING LOTS:
   — 8" BASE AGGREGATE DENSE 1 1/4-INCH WITH 3" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

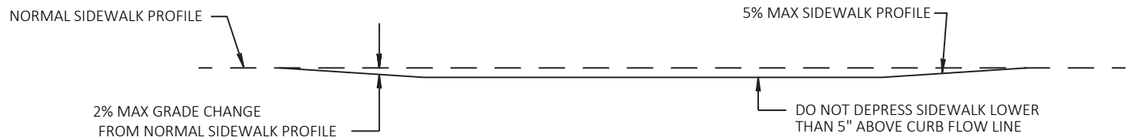
** = 6" BASE AGGREGATE DENSE 1 1/4-INCH REQ'D UNDER CONCRETE DRWY

\#

TERRACE WIDTH	APRON SLOPE (G1) MIN %	DESIRABLE %	MAX %
3 FT	5.0	6.0	8.0
4 FT	5.0	6.0	8.0
5 FT	4.0	6.0	8.0
6 FT	4.0	6.0	8.0
7 FT	3.5	6.0	8.0
8 FT	3.0	6.0	8.0

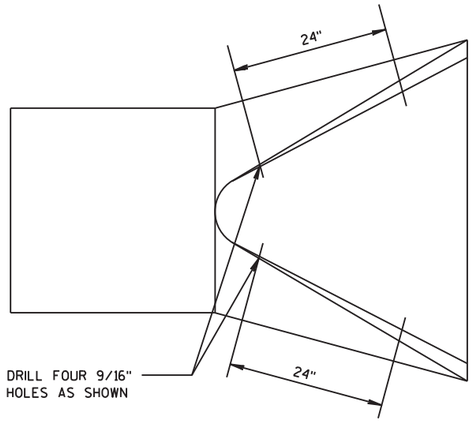
NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 15%

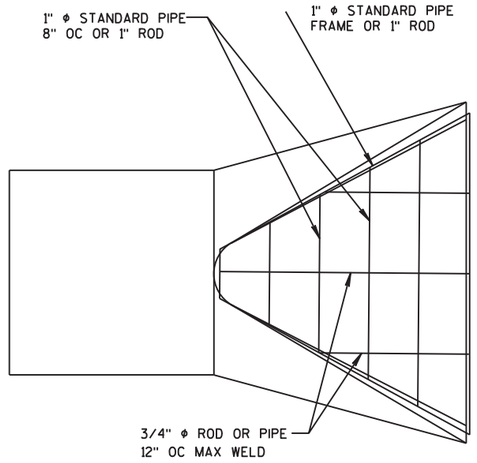
DEPRESS SIDEWALK PROFILE IF DRIVEWAY APRON EXCEEDS MAX SLOPE



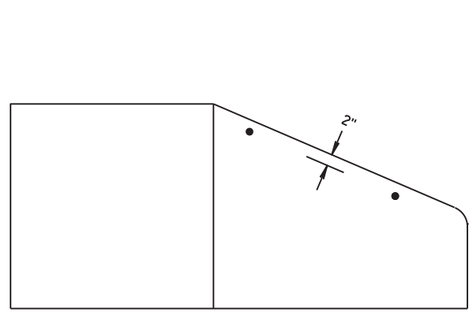
DEPRESSED SIDEWALK PROFILE

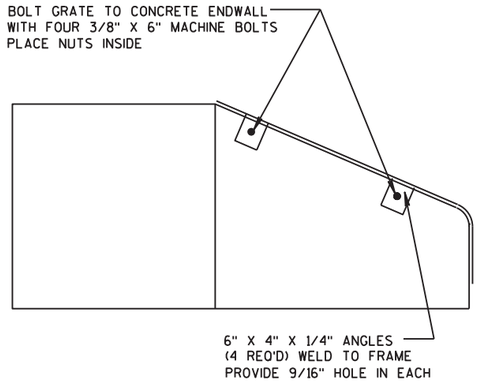
PRIVATE AND COMMERCIAL ENTRANCE TYPE 2

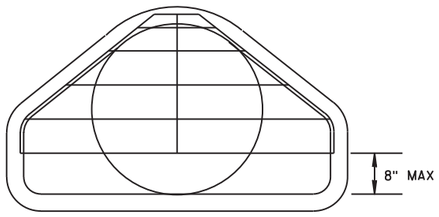




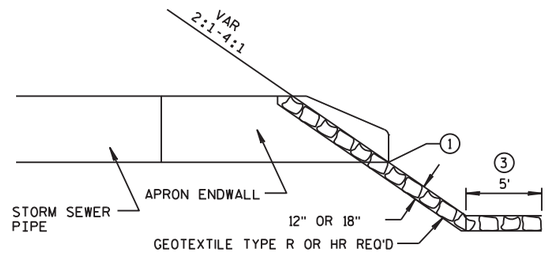
AT EACH PIPE



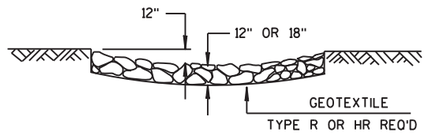




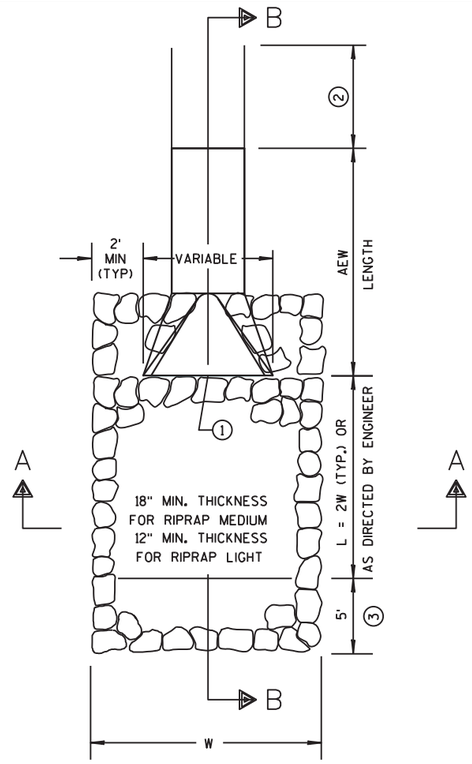
PIPE GRATE



SECTION B-B



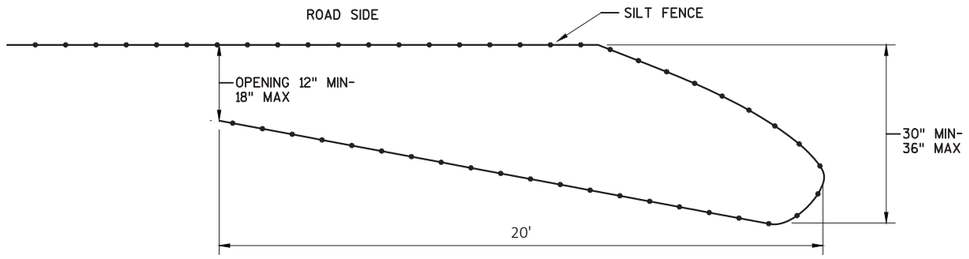
SECTION A-A



RIPRAP TREATMENT AT APRON ENDWALLS

NOTES:

1. REFER TO STORM SEWER PLAN FOR AEW STA AND OFFSET LOCATION.
2. REFER TO STORM SEWER PLAN FOR STORM SEWER PIPE LENGTHS.
3. WIDTH AT INFILTRATION PONDS AS DIRECTED BY ENGINEER.



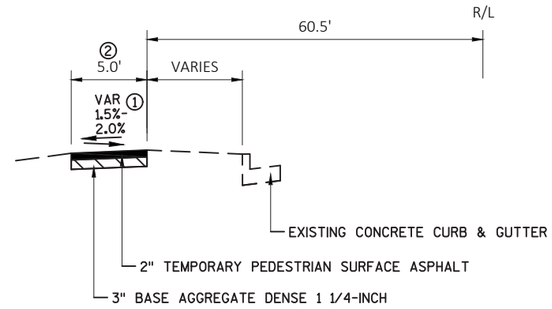
PLAN VIEW

GENERAL NOTES:

THE PURPOSE OF THE SMALL ANIMAL TURN-AROUNDS ARE TO REDIRECT THE SMALL ANIMALS AWAY FROM THE CONSTRUCTION ZONE. DESIGN SHOULD INCLUDE TRENCH-IN SEDIMENT FENCING AND FENCING SUPPORTS ON THE UPSLOPE SIDE OF FENCE. SILT FENCE POSTS FOR THE TURN-AROUND SHALL BE ON THE OUTSIDE OF THE TURN-AROUND. AND TRENCHED IN ACCORDING TO SILT FENCE REQUIREMENTS.

TEMPORARY SMALL ANIMAL TURN-AROUND

(INCLUDE IN SILT FENCE BID ITEM)
STA 187+33 RT - BUSINESS 51
STA 57+09 LT - SPRINGVILLE DRIVE



TEMPORARY PEDESTRIAN SURFACE ASPHALT

STAGE 1

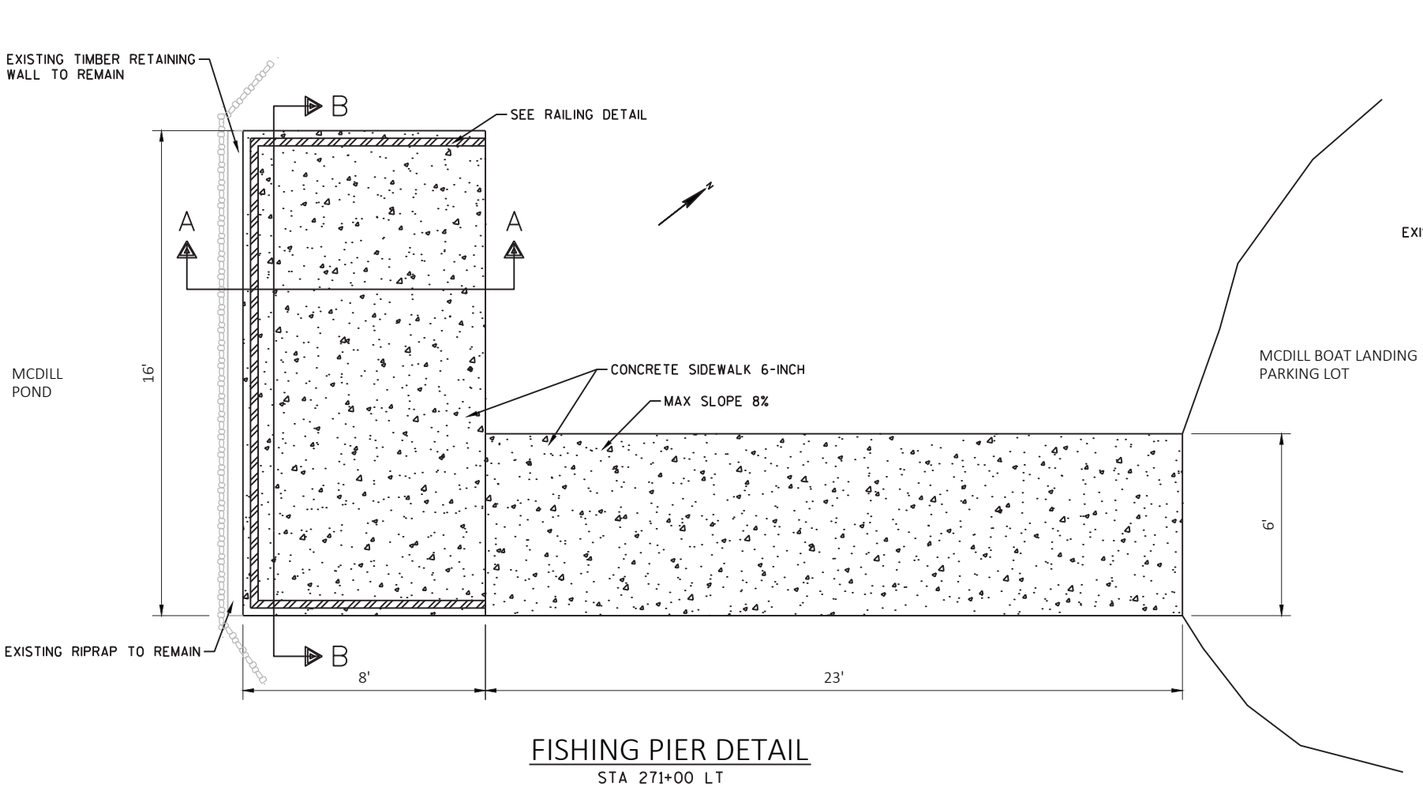
NOTES:

① TEMPORARY SIDEWALK TO BE SLOPED EITHER DIRECTION TO ACCOMMODATE EXISTING DRAINAGE.

② SEE TRAFFIC CONTROL PLAN FOR LOCATION INFORMATION.

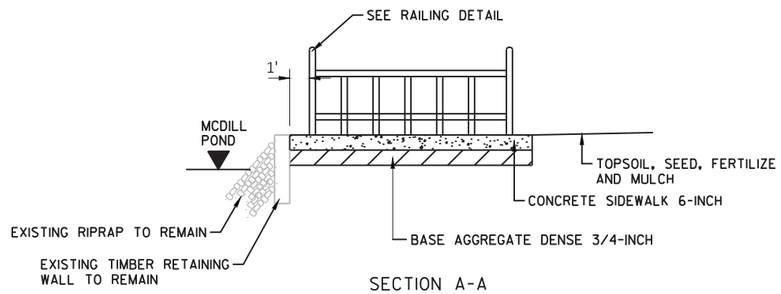
BASE AGGREGATE THICKNESS AND WIDTH SHOWN ARE MINIMUM. PLACE BASE AGGREGATE DENSE AT A WIDTH REQUIRED FOR INSTALLATION OF THE ASPHALT SURFACE.

ALL REQUIRED EXCAVATION, BASE AGGREGATE DENSE, RESTORATION AND STAKING SHALL BE CONSIDERED INCIDENTAL TO TEMPORARY PEDESTRIAN SURFACE ASPHALT.

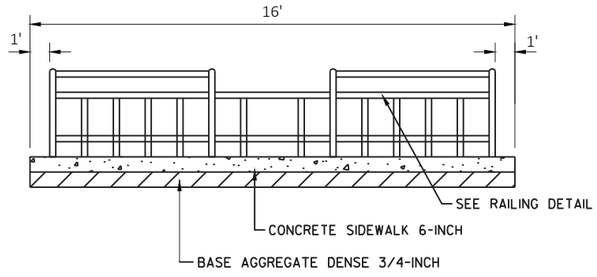


FISHING PIER DETAIL

STA 271+00 LT



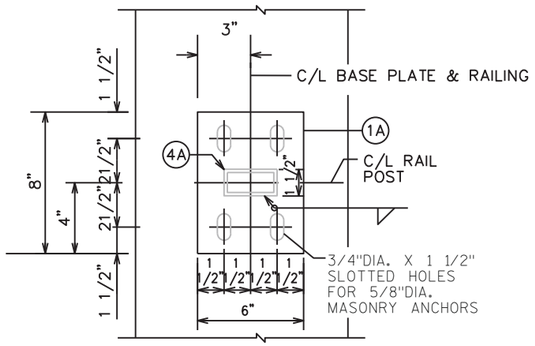
SECTION A-A



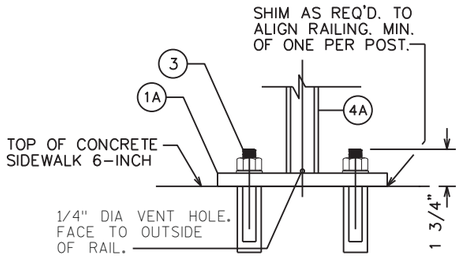
SECTION B-B

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CONSTRUCTION DETAILS	SHEET 14	E

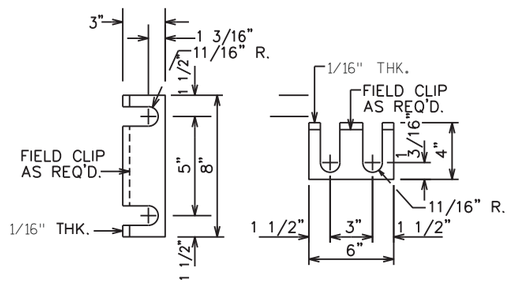
FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\021001 CD.DWG
LAYOUT NAME - 04
PLOT DATE : 10/23/2020 7:07 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : ##########



TYPICAL RAIL POST BASE PLATE



ANCHOR DETAILS FOR RAIL POSTS



RAIL POST SHIM DETAIL
(2 SETS PER POST)

LEGEND

(1A) PLATE 5/8" X 6" X 8" WITH 3/4" X 1 1/2" SLOTTED HOLES.

(3) STAINLESS STEEL CONCRETE MASONRY ANCHORS, TYPE S (EPOXY), 5/8" DIA., MINIMUM PULLOUT CAPACITY OF 15 KIPS. EMBED A MIN. OF 4".

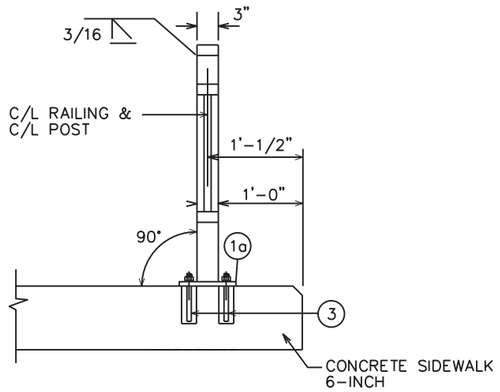
(4A) STRUCTURAL TUBING 3" X 1 1/2" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.

(5A) STRUCTURAL TUBING 3" X 1 1/2" X 3/16" RAILS. WELD TO NO. 1 & NO. 4.

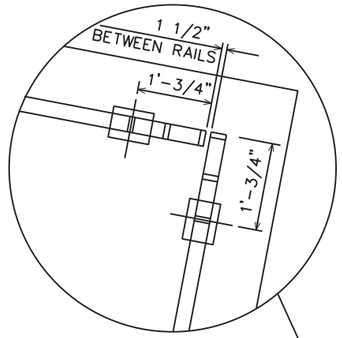
(6A) STRUCTURAL TUBING 1" X 1" X 1/8" PICKETS. WELD TO NO. 5. PLACE VERTICAL.

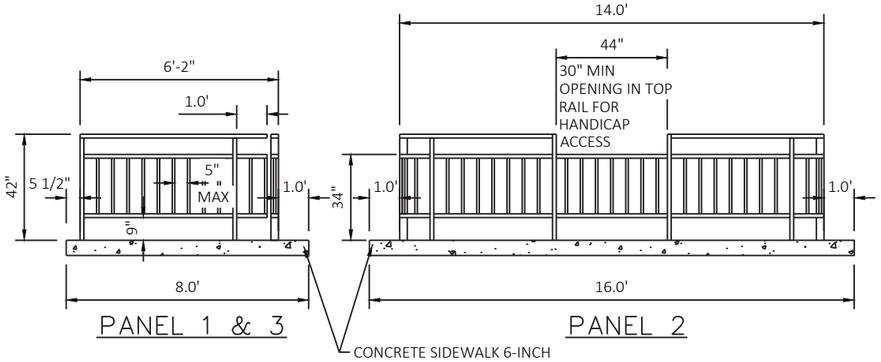
(9A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".

(10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16". PLATES. (1'-4" @ FIELD ERECTION JTS.)

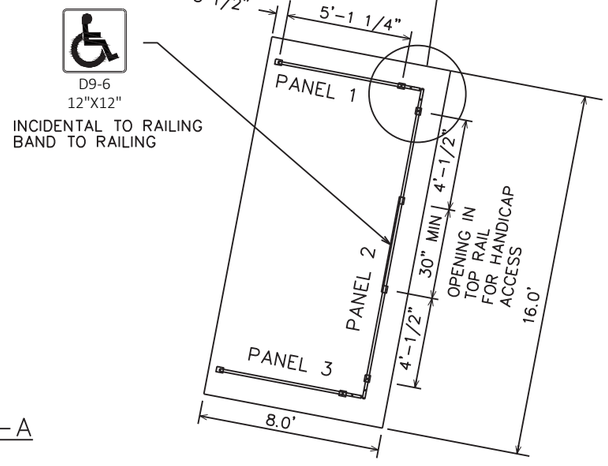


SECTION THRU RAILING



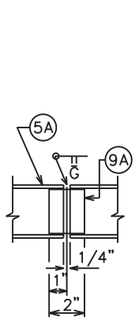


ELEVATION

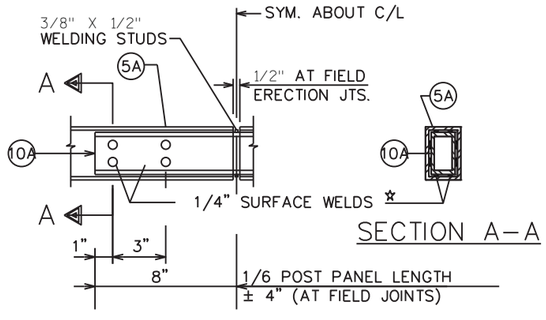


PLAN

RAILING DETAIL



SHOP RAIL SPLICE DETAIL
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



SECTION A–A

FIELD ERECTION JOINT DETAIL

☆MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

NOTES

BID ITEM SHALL BE "RAILING", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN, AND PAINTING.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

NO. 1, 9 AND NO. 10 SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A709 GRADE 36. STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A500 GRADE B (NO. 4, NO. 5, AND NO. 6).

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT.

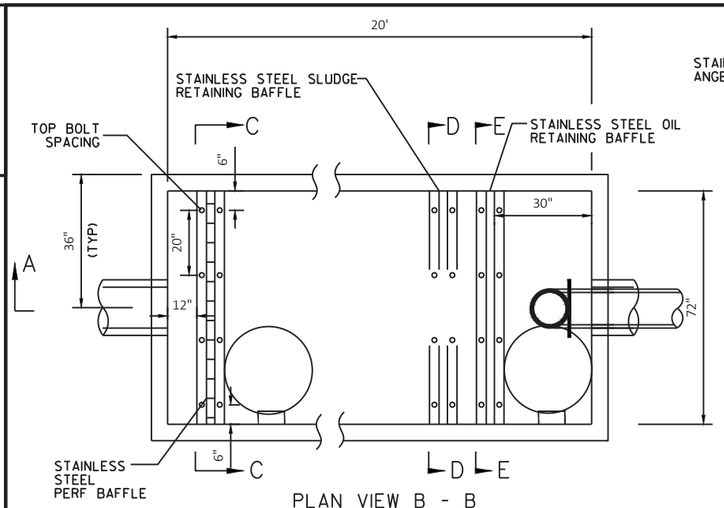
FILL BOLT SLOT OPENINGS IN SHIMS AND PLATE NO. 1 AND CAULK AROUND PERIMETER OF PLATE NO. 1 WITH NON–STAINING GRAY NON–BITUMINOUS JOINT SEALER.

AFTER FABRICATION, ALL MATERIAL, EXCEPT ANCHORAGE (NO. 3) & SHIMS SHALL BE PAINTED WITH A THREE COAT ZINC–RICH EPOXY SYSTEM PER WISDOT STANDARD SPECIFICATION, SECTION 517, EPOXY SYSTEM. SHIMS SHALL BE GIVEN ONE COAT OF ZINC RICH PRIMER PAINT. THE FINISH COLOR SHALL BE FEDERAL COLOR NO. 34109, (green).

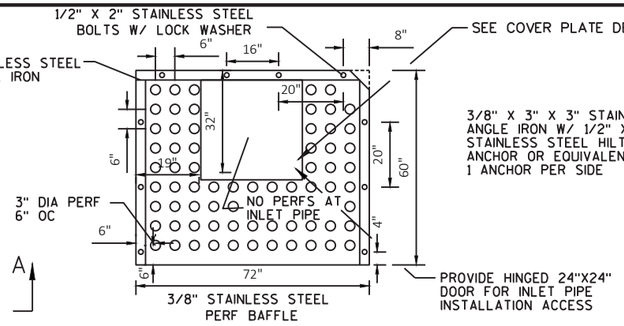
1/4" VENT HOLES LOCATED IN TOP RAIL OVER RAIL POSTS AND AT LOW END OF OTHER RAILS.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

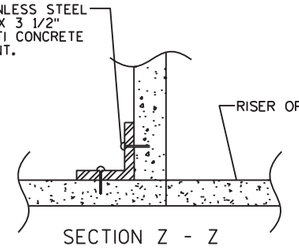
TOUCH–UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



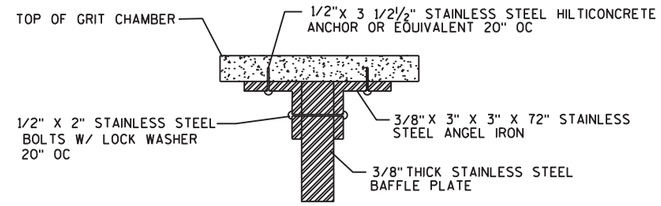
PLAN VIEW B - B



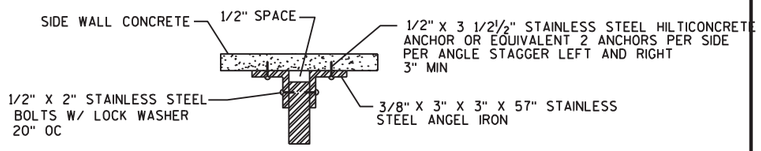
SECTION C - C



SECTION Z - Z

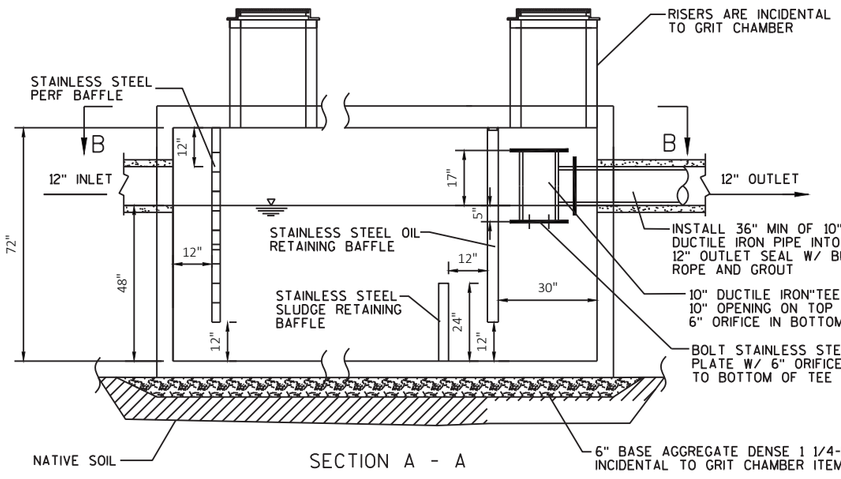


GRIT CHAMBER TOP BOLTING DETAIL

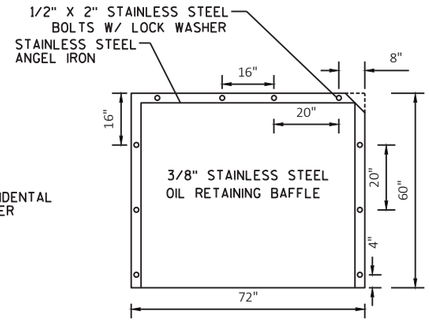


GRIT CHAMBER SIDE BOLTING DETAIL

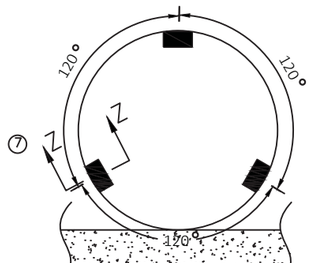
TYPE "A" 20'-0" MANHOLE SPACING (2) LOCATE FROM INSIDE INLET END OF GRIT CHAMBER TO CENTER OF MANHOLE: 8.5' AND 18.5'.



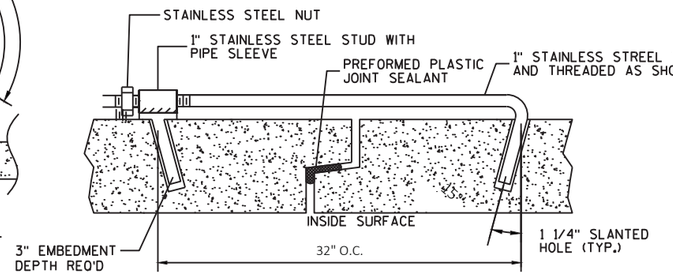
SECTION A - A



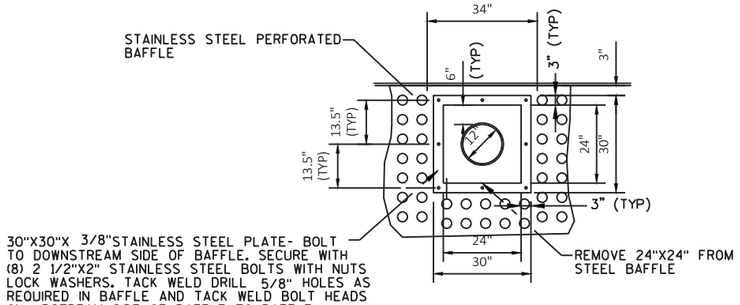
SECTION E - E

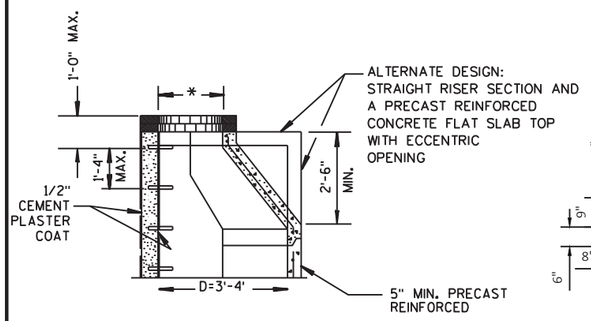


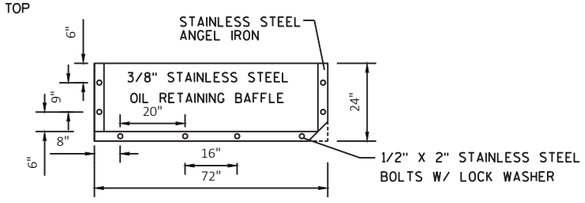
RISER CLIP DETAIL



CONCEALED HOLE DESIGN JOINT TIE





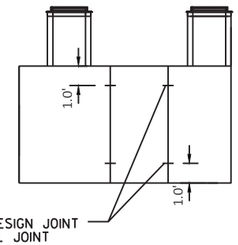


SECTION D - D

RISER AT OUTLET END OF GRIT CHAMBER SHALL HAVE A DIAMETER OF 3.0'; ALL OTHER RISERS OF GRIT CHAMBER SHALL HAVE DIAMETERS OF 4.0'.

TYPE A GRIT CHAMBER

COVER PLATE



TWO-CONCEALED HOLE DESIGN JOINT TIES PER VERTICAL WALL JOINT (THIS EXAMPLE WOULD HAVE EIGHT TOTAL)

NOTES:

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

DETAILED DRAWINGS 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.

PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.

STEPS SHALL BE INSTALLED IN THE STRUCTURE WITH THE FOLLOWING REQUIREMENTS: 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-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.

LOCATE RISERS TO PROVIDE AREA ON TOP OF GRIT CHAMBER TO SET RISER AND TO ALIGN RISER STEPS WITH GRIT CHAMBER STEPS.

* USE 2'-0" DIAMETER OPENING WITH TYPE "C", "L" AND "J" COVERS, OR 3'-0" DIAMETER WITH TYPE "K" AND "M" COVERS.

① CORE-DRILL OR SAW-CUT ALL OPENINGS FOR SMOOTH SURFACES AND SHARP LINES.

② SUBMIT SHOP DRAWING TO ENGINEER FOR REVIEW.

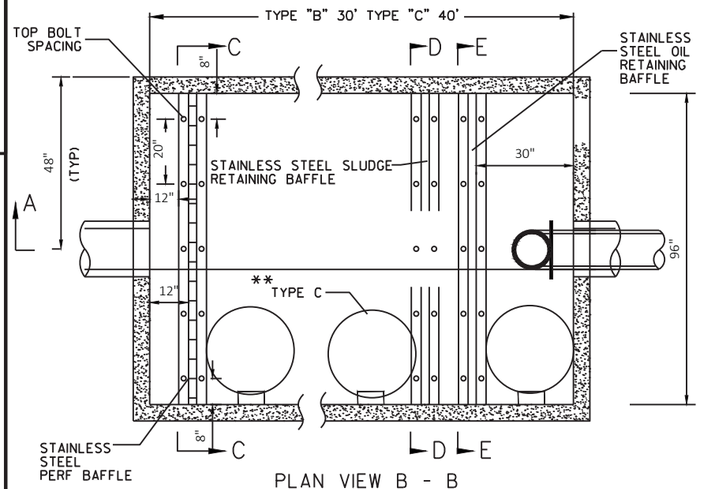
③ ALL JOINT SECTIONS SHALL BE GASKETED.

④ ALL VERTICAL JOINT SECTIONS SHALL BE TIED USING TWO-CONCEALED HOLE TIES EVENLY SPACED ON EACH VERTICAL WALL JOINT.

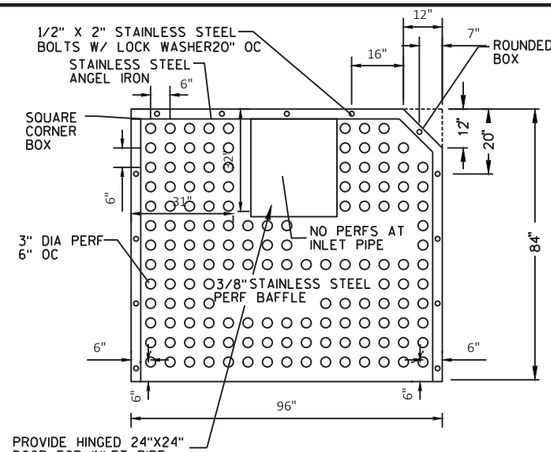
⑤ BAFFEL WIDTHS ARE 7'-11" TO ALLOW FOR A ½" GAP FROM SIDE WALLS FOR EXPANSION.

⑥ LOCATE INSIDE DIAMETER OF RISER & ACCESS HOLE IN BOX FLUSH WITH INSIDE WALL OF GRIT CHAMBER.

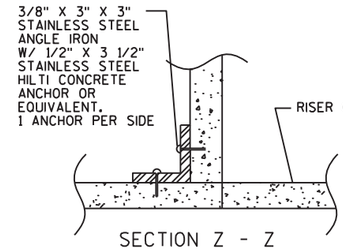
⑦ SEE RISER CLIP DETAIL FOR RISER ATTACHMENT TO GRIT CHAMBER.



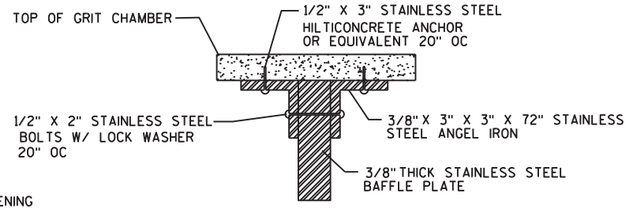
PLAN VIEW B - B



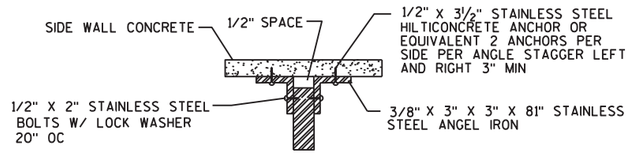
SECTION C - C



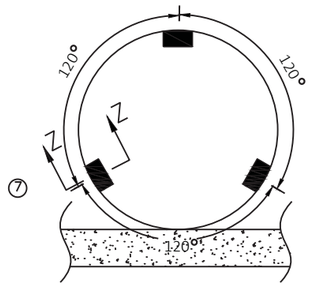
SECTION Z - Z



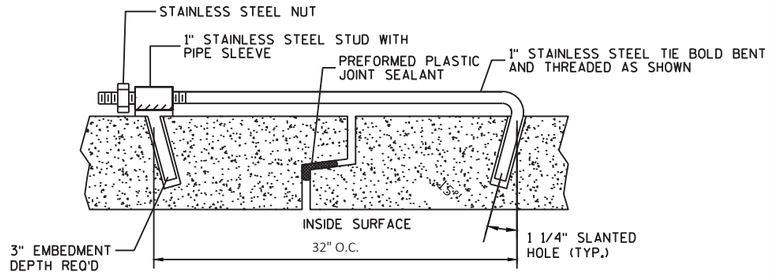
GRIT CHAMBER TOP BOLTING DETAIL



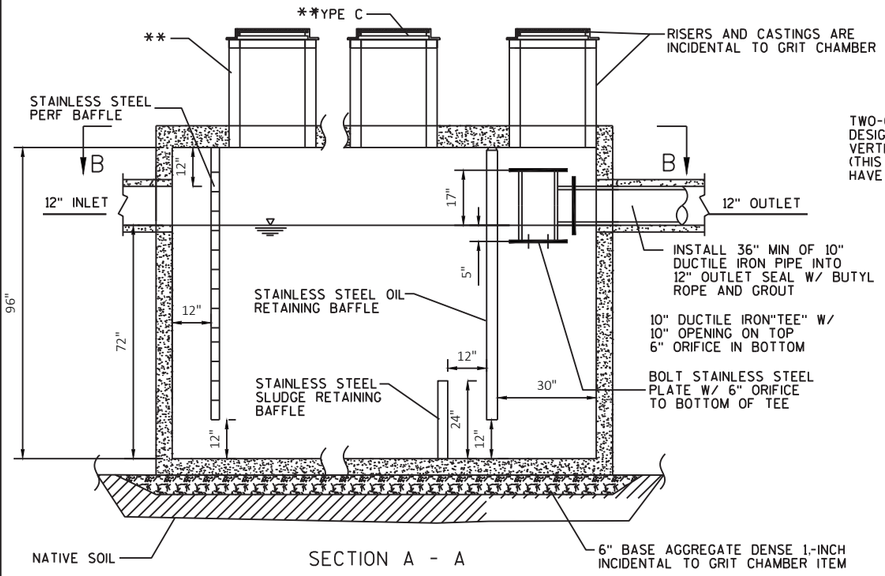
GRIT CHAMBER SIDE BOLTING DETAIL



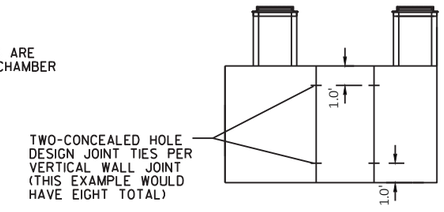
RISER CLIP DETAIL

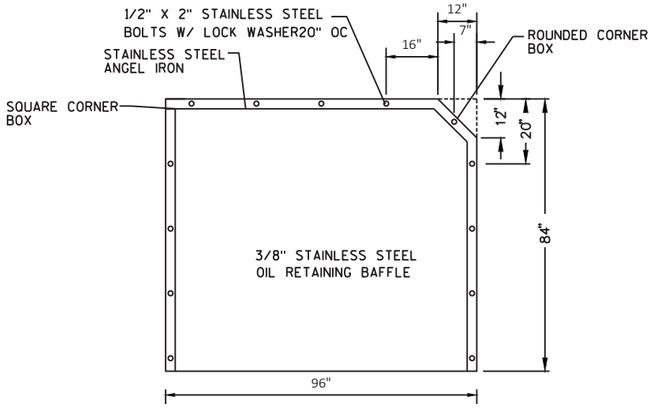


CONCEALED HOLE DESIGN JOINT TIE

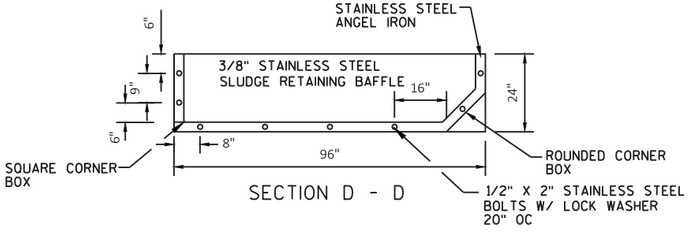


SECTION A - A

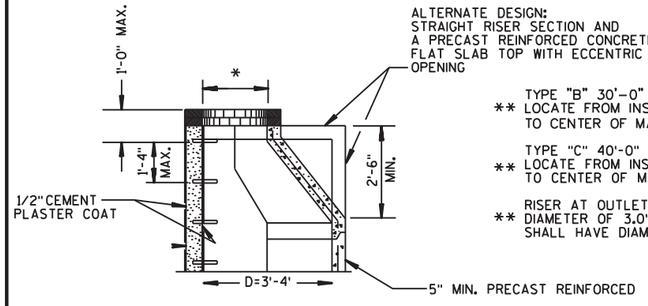




SECTION E - E



SECTION D - D



ALTERNATE DESIGN:
STRAIGHT RISER SECTION AND A PRECAST REINFORCED CONCRETE FLAT SLAB TOP WITH ECCENTRIC OPENING

TYPE "B" 30'-0" MANHOLE SPACING (2)
** LOCATE FROM INSIDE INLET END OF GRIT CHAMBER TO CENTER OF MANHOLE: 8.5' AND 28.5'

TYPE "C" 40'-0" MANHOLE SPACING (4)
** LOCATE FROM INSIDE INLET END OF GRIT CHAMBER TO CENTER OF MANHOLE: 8.5', 23.5' AND 38.5'.

RISER AT OUTLET END OF GRIT CHAMBER SHALL HAVE A ** DIAMETER OF 3.0', ALL OTHER RISERS OF GRIT CHAMBER SHALL HAVE DIAMETERS OF 4.0'.

NOTES:

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

DETAILED DRAWINGS 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.

PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.

STEPS SHALL BE INSTALLED IN THE STRUCTURE WITH THE FOLLOWING REQUIREMENTS: 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-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.

LOCATE RISERS TO PROVIDE AREA ON TOP OF GRIT CHAMBER TO SET RISER AND TO ALIGN RISER STEPS WITH GRIT CHAMBER STEPS.

* USE 2'-0" DIAMETER OPENING WITH TYPE "C", "L" AND "J" COVERS, OR 3'-0" DIAMETER WITH TYPE "K" AND "M" COVERS.

① CORE-DRILL OR SAW-CUT ALL OPENINGS FOR SMOOTH SURFACES AND SHARP LINES.

② SUBMIT SHOP DRAWING TO ENGINEER FOR REVIEW.

③ ALL JOINT SECTIONS SHALL BE GASKETED.

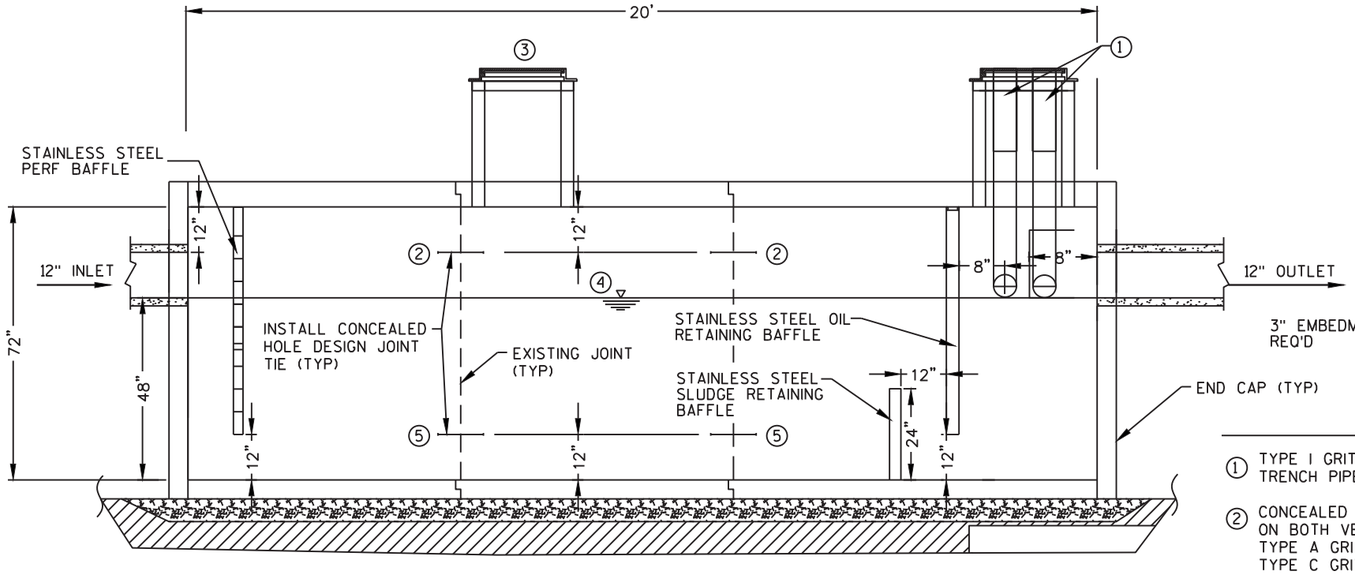
④ ALL VERTICAL JOINT SECTIONS SHALL BE TIED USING TWO-CONCEALED HOLE TIES EVENLY SPACED ON EACH VERTICAL WALL JOINT.

⑤ BAFFEL WIDTHS ARE 7'-11" TO ALLOW FOR A ½" GAP FROM SIDE WALLS FOR EXPANSION.

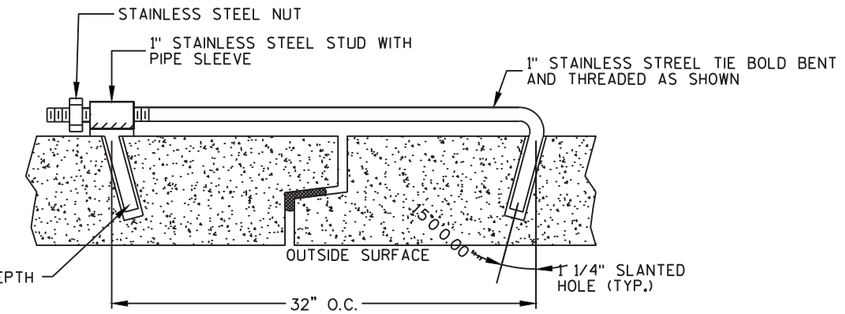
⑥ LOCATE INSIDE DIAMETER OF RISER & ACCESS HOLE IN BOX FLUSH WITH INSIDE WALL OF GRIT CHAMBER.

⑦ SEE RISER CLIP DETAIL FOR RISER ATTACHMENT TO GRIT CHAMBER.

TYPE B AND TYPE C GRIT CHAMBERS



EXISTING TYPE A GRIT CHAMBER /TYPE I GRIT CHAMBER



CONCEALED HOLE DESIGN JOINT TIE

NOTES:

① TYPE I GRIT CHAMBERS HAVE INFILTRATION TRENCH PIPE CLEANOUTS.

② CONCEALED HOLE DESIGN JOINT TIE. INSTALL INSIDE GRIT CHAMBER ON BOTH VERTICAL WALLS. FOUR TOTAL REQ'D ON TYPE I CHAMBERS. TYPE A GRIT CHAMBERS REQUIRES TIES AT THE BOTTOM (8 TIES IN TOTAL). TYPE C GRIT CHAMBERS REQUIRE 10 TIES TOTAL. NO TIE BARS REQ'D ON THE END CAPS OF EXISTING GRIT CHAMBERS.

③ ACTUAL CHAMBER LAYOUT MAY VARY.

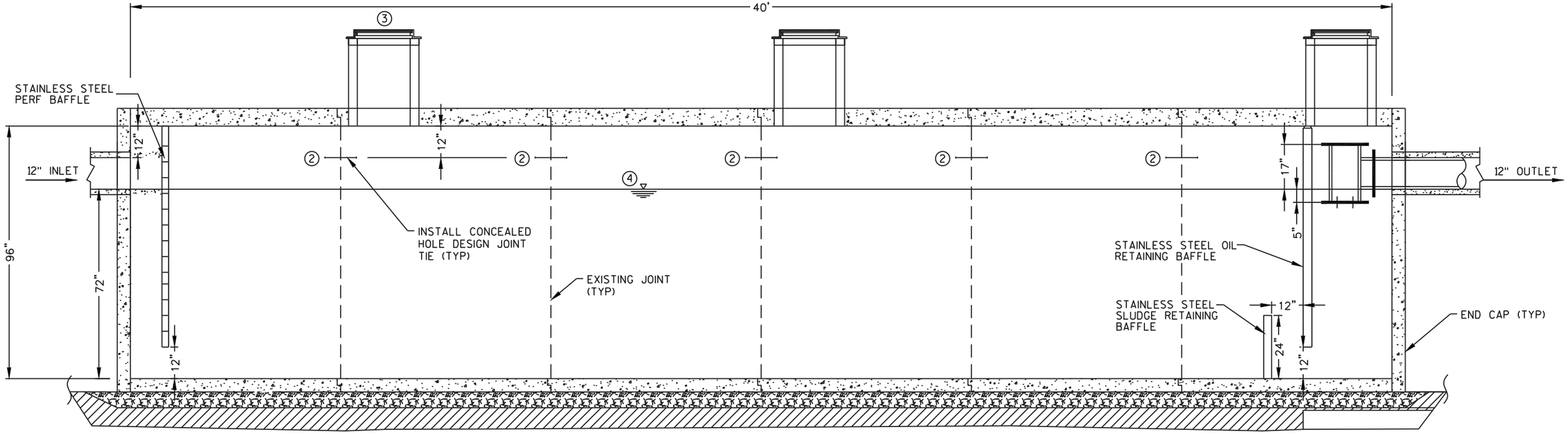
④ OPERATIONAL WATER LEVEL. ACTUAL MAY VARY.

⑤ TYPE A GRIT CHAMBER REQUIRES ADDITIONAL TIE BARS AT BOTTOM.

EXISTING GRIT CHAMBERS LOCATIONS:
TYPE A
STA 154+27, 72' LT - NORTH OF GILMAN DRIVE

TYPE C
STA 153+24, 63' LT - SOUTH OF GILMAN DRIVE
STA 274+26, 9' LT - MEDIAN NORTH OF THE MCDILL POND BOAT LANDING

TYPE I
STA 165+90, 6' LT - MEDIAN SOUTH OF BEA JAY LANE
STA 170+15, 6' LT - MEDIAN NORTH OF BEA JAY LANE
STA 176+18, 5' LT - MEDIAN NORTH OF PLOVER SPRINGS DRIVE



EXISTING TYPE C GRIT CHAMBER

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CONSTRUCTION DETAILS - EXISTING GRIT CHAMBER TIE BAR INSTALLATION	SHEET 18	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\021001 CD.DWG
LAYOUT NAME - 08
PLOT DATE : 12/22/2020 7:16 AM PLOT BY : ANNIE JEROME PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

SIDEWALK CLOSED
R9-9
30" X 18"

SIDEWALK CLOSED
R9-9
30" X 18"

8

8

SIGN

SIGN

INL

INL

SS

SS

128+00

129+00

130+00

BUS 51

15' TO NEAREST RAIL (TYP)

SIDEWALK CLOSED
R9-9
30" X 18"

EXISTING CONCRETE SIDEWALK

CONCRETE SIDEWALK 6-INCH (TYP)

EXISTING ASPHALT

SAWCUT REQ'D (TYP)

SIDEWALK CLOSED
R9-9
30" X 18"

WILLOW DRIVE

CN RAILROAD

CHESTNUT DRIVE

LEGEND

8 CURB RAMP TYPE 8

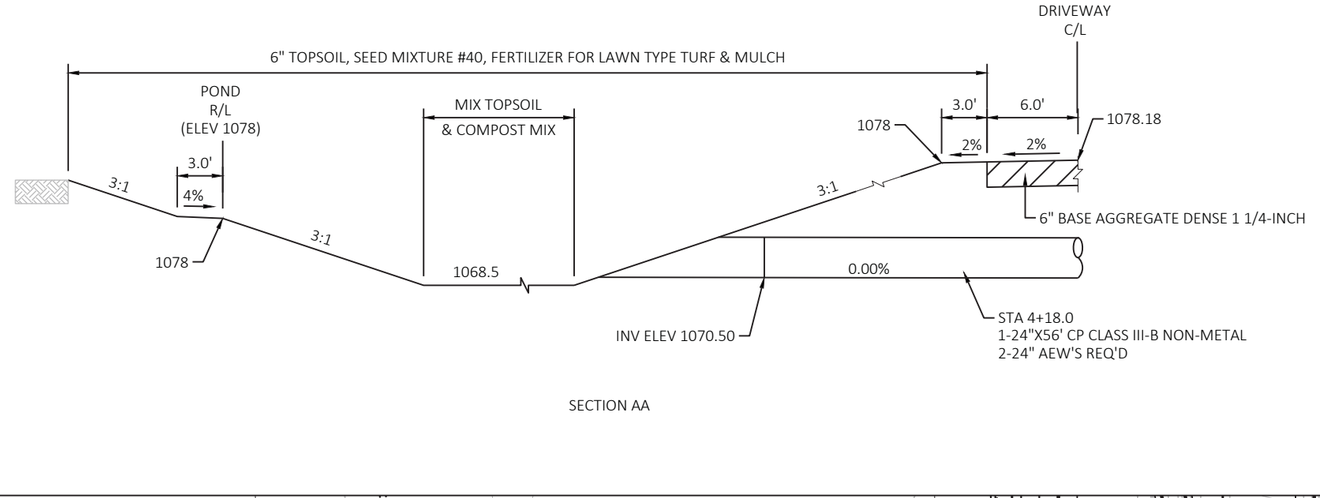
CURB RAMP DETECTABLE WARNING FIELD YELLOW

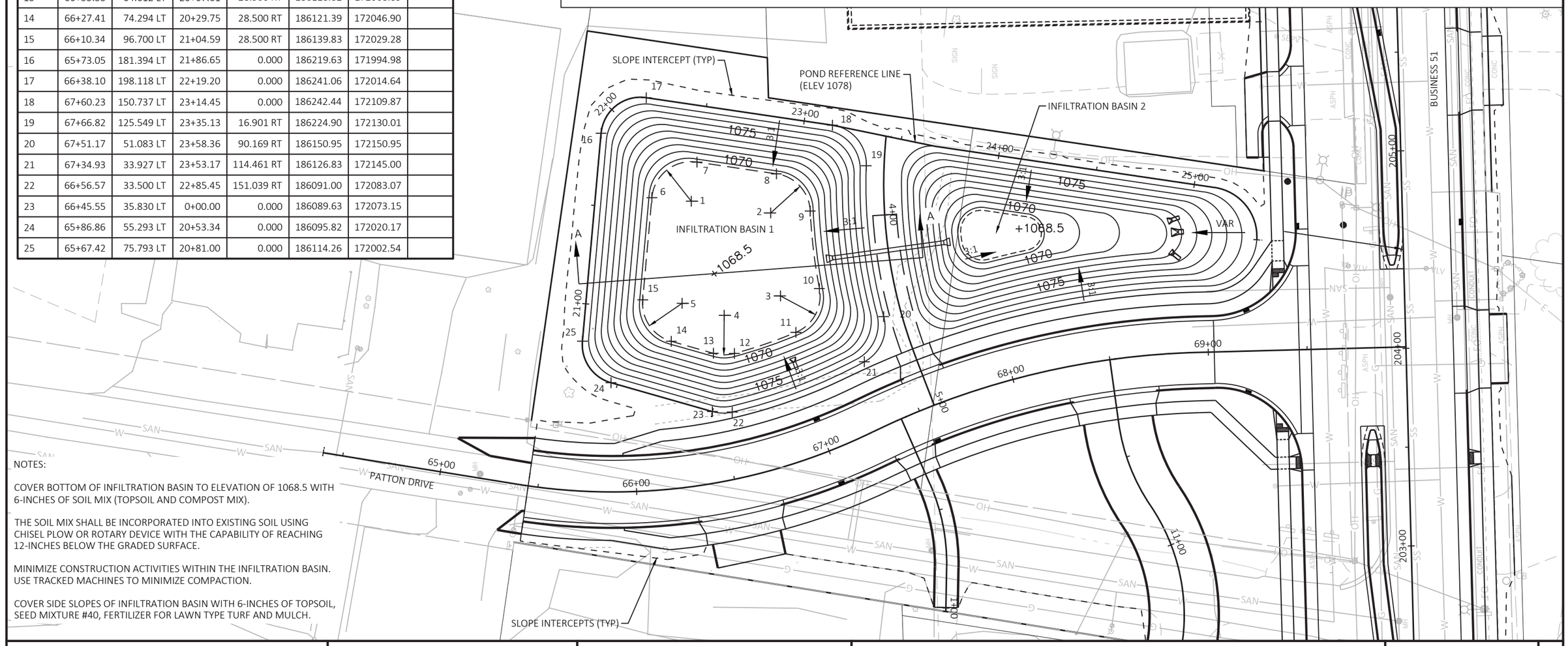
BARRICADES TYPE II WITH SIGN *

* EXACT LOCATION TO BE DETERMINED BY THE ENGINEER

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CONSTRUCTION DETAIL	SHEET 19	E

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
1	66+64.22	142.074 LT	22+49.38	48.500 RT	186193.00	172045.51	20.0'
2	67+25.72	122.265 LT	22+90.00	48.500 RT	186193.59	172086.13	20.0'
3	67+07.91	82.000 LT	23+01.05	89.340 RT	186152.92	172097.77	20.0'
4	66+65.85	80.500 LT	20+07.20	47.000 RT	186138.69	172071.21	20.0'
5	66+38.91	92.492 LT	21+04.59	48.500 RT	186141.26	172049.23	20.0'
6	66+27.05	147.645 LT	21+56.47	28.500 RT	186191.57	172025.56	
7	66+80.98	160.270 LT	22+49.38	28.500 RT	186213.00	172045.22	
8	67+34.05	138.936 LT	22+90.00	28.500 RT	186213.59	172085.84	
9	67+40.03	114.776 LT	23+09.62	44.642 RT	186197.73	172105.69	
10	67+30.38	77.126 LT	23+23.72	82.435 RT	186159.76	172116.57	
11	67+07.91	62.000 LT	23+11.45	106.427 RT	186135.98	172108.41	
12	66+66.42	62.000 LT	20+81.67	77.127 RT	186120.45	172079.42	
13	66+53.33	64.612 LT	20+07.61	28.500 RT	186118.82	172068.89	
14	66+27.41	74.294 LT	20+29.75	28.500 RT	186121.39	172046.90	
15	66+10.34	96.700 LT	21+04.59	28.500 RT	186139.83	172029.28	
16	65+73.05	181.394 LT	21+86.65	0.000	186219.63	171994.98	
17	66+38.10	198.118 LT	22+19.20	0.000	186241.06	172014.64	
18	67+60.23	150.737 LT	23+14.45	0.000	186242.44	172109.87	
19	67+66.82	125.549 LT	23+35.13	16.901 RT	186224.90	172130.01	
20	67+51.17	51.083 LT	23+58.36	90.169 RT	186150.95	172150.95	
21	67+34.93	33.927 LT	23+53.17	114.461 RT	186126.83	172145.00	
22	66+56.57	33.500 LT	22+85.45	151.039 RT	186091.00	172083.07	
23	66+45.55	35.830 LT	0+00.00	0.000	186089.63	172073.15	
24	65+86.86	55.293 LT	20+53.34	0.000	186095.82	172020.17	
25	65+67.42	75.793 LT	20+81.00	0.000	186114.26	172002.54	





NOTES:

COVER BOTTOM OF INFILTRATION BASIN TO ELEVATION OF 1068.5 WITH 6-INCHES OF SOIL MIX (TOPSOIL AND COMPOST MIX).

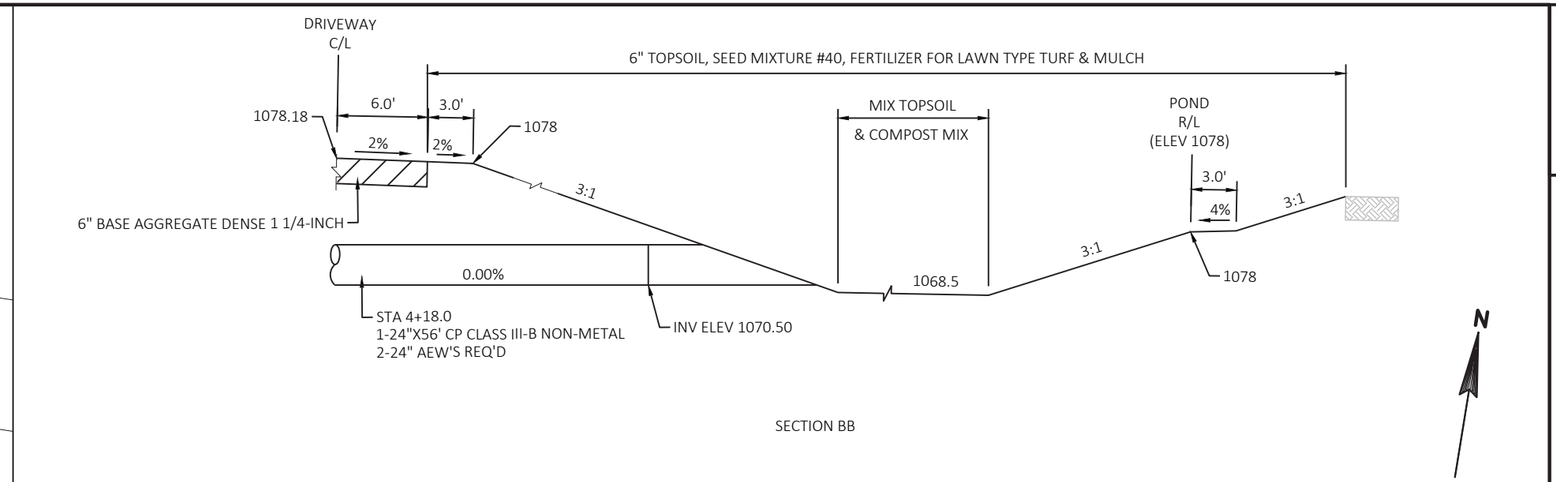
THE SOIL MIX SHALL BE INCORPORATED INTO EXISTING SOIL USING CHISEL PLOW OR ROTARY DEVICE WITH THE CAPABILITY OF REACHING 12-INCHES BELOW THE GRADED SURFACE.

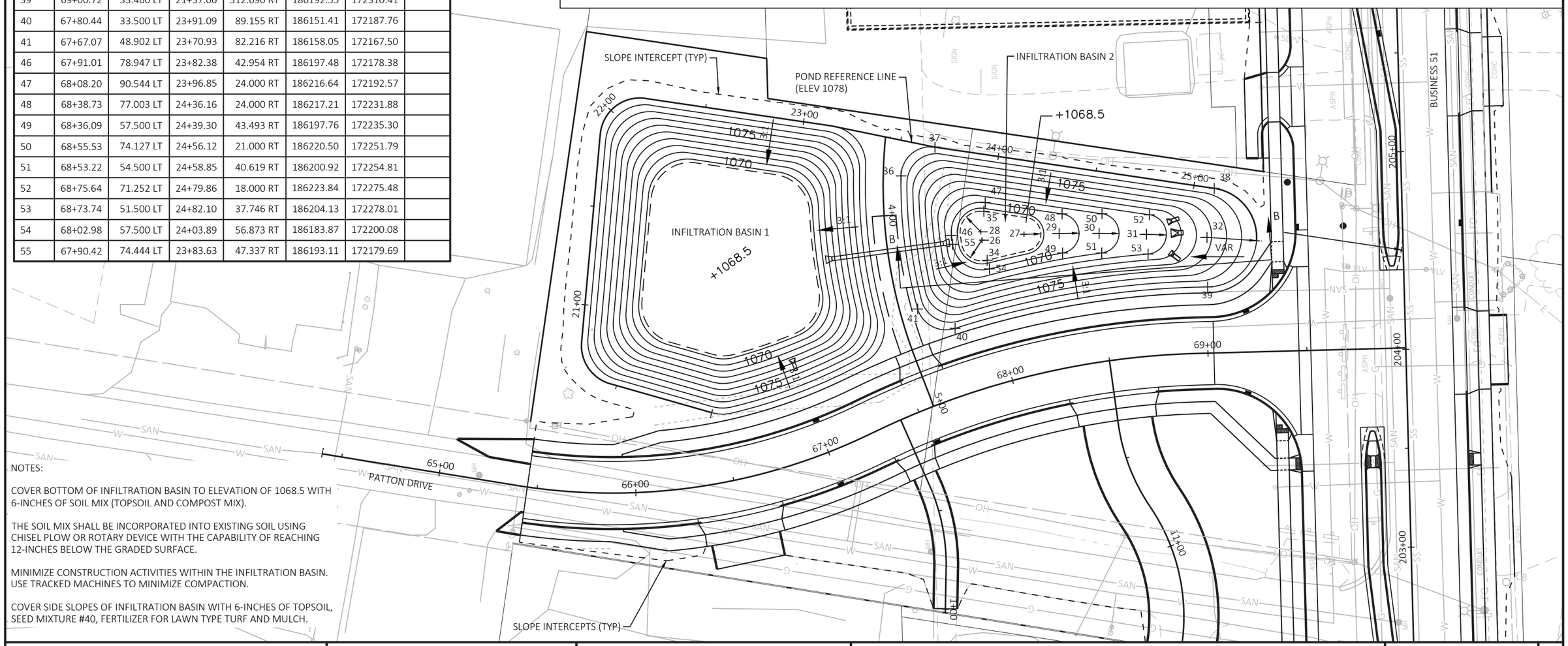
MINIMIZE CONSTRUCTION ACTIVITIES WITHIN THE INFILTRATION BASIN. USE TRACKED MACHINES TO MINIMIZE COMPACTION.

COVER SIDE SLOPES OF INFILTRATION BASIN WITH 6-INCHES OF TOPSOIL, SEED MIXTURE #40, FERTILIZER FOR LAWN TYPE TURF AND MULCH.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CONSTRUCTION DETAIL - INFILTRATION BASIN 1	SHEET 20	E

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
26	68+02.98	72.500 LT	23+98.01	43.072 RT	186197.58	172194.01	11.0'
27	68+21.12	70.500 LT	24+18.61	37.000 RT	186203.95	172214.52	9.0'
28	68+03.42	76.701 LT	23+96.85	39.000 RT	186201.64	172192.79	10.0'
29	68+36.09	67.500 LT	24+36.16	34.000 RT	186207.21	172232.02	10.0'
30	68+53.22	64.500 LT	24+56.12	31.000 RT	186210.50	172251.93	10.0'
31	68+73.74	61.500 LT	24+79.86	28.000 RT	186213.84	172275.63	10.0'
32	69+01.06	58.511 LT	25+10.36	25.054 RT	186217.23	172306.08	25.0'
34	68+02.98	62.000 LT	24+02.12	52.733 RT	186187.98	172198.26	
35	68+06.80	86.384 LT	23+96.85	28.500 RT	186212.14	172192.64	
36	67+78.63	115.267 LT	23+53.76	17.698 RT	186223.11	172148.41	
37	67+94.55	124.134 LT	23+67.67	0.000	186240.21	172163.04	
38	69+05.37	83.191 LT	25+10.36	0.000	186242.28	172305.72	
39	69+00.72	33.460 LT	21+37.06	312.690 RT	186192.55	172310.41	
40	67+80.44	33.500 LT	23+91.09	89.155 RT	186151.41	172187.76	
41	67+67.07	48.902 LT	23+70.93	82.216 RT	186158.05	172167.50	
46	67+91.01	78.947 LT	23+82.38	42.954 RT	186197.48	172178.38	
47	68+08.20	90.544 LT	23+96.85	24.000 RT	186216.64	172192.57	
48	68+38.73	77.003 LT	24+36.16	24.000 RT	186217.21	172231.88	
49	68+36.09	57.500 LT	24+39.30	43.493 RT	186197.76	172235.30	
50	68+55.53	74.127 LT	24+56.12	21.000 RT	186220.50	172251.79	
51	68+53.22	54.500 LT	24+58.85	40.619 RT	186200.92	172254.81	
52	68+75.64	71.252 LT	24+79.86	18.000 RT	186223.84	172275.48	
53	68+73.74	51.500 LT	24+82.10	37.746 RT	186204.13	172278.01	
54	68+02.98	57.500 LT	24+03.89	56.873 RT	186183.87	172200.08	
55	67+90.42	74.444 LT	23+83.63	47.337 RT	186193.11	172179.69	





NOTES:

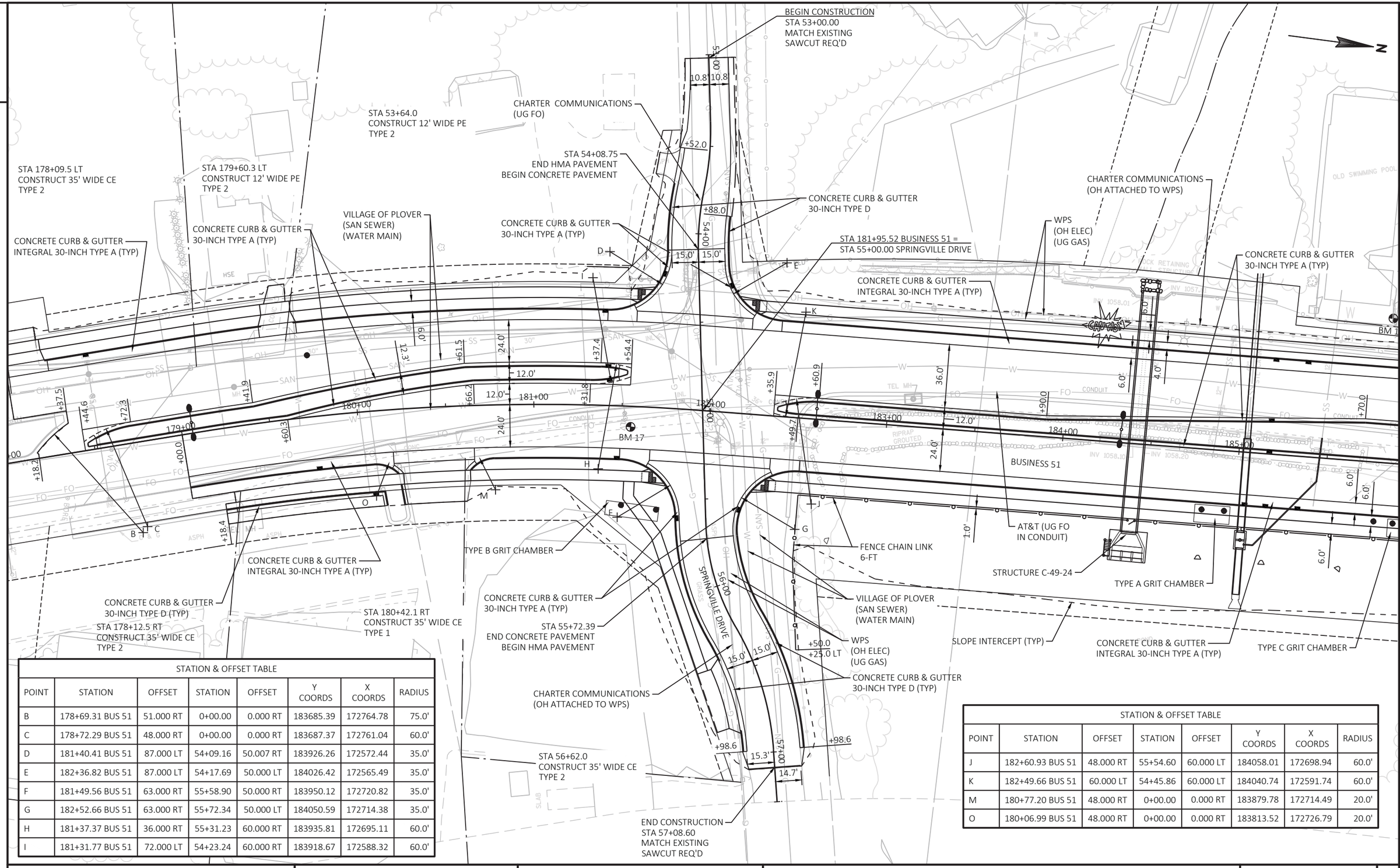
COVER BOTTOM OF INFILTRATION BASIN TO ELEVATION OF 1068.5 WITH 6-INCHES OF SOIL MIX (TOPSOIL AND COMPOST MIX).

THE SOIL MIX SHALL BE INCORPORATED INTO EXISTING SOIL USING CHISEL PLOW OR ROTARY DEVICE WITH THE CAPABILITY OF REACHING 12-INCHES BELOW THE GRADED SURFACE.

MINIMIZE CONSTRUCTION ACTIVITIES WITHIN THE INFILTRATION BASIN. USE TRACKED MACHINES TO MINIMIZE COMPACTION.

COVER SIDE SLOPES OF INFILTRATION BASIN WITH 6-INCHES OF TOPSOIL, SEED MIXTURE #40, FERTILIZER FOR LAWN TYPE TURF AND MULCH.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CONSTRUCTION DETAIL INFILTRATION BASIN 2	SHEET 21	E



STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
B	178+69.31 BUS 51	51.000 RT	0+00.00	0.000 RT	183685.39	172764.78	75.0'
C	178+72.29 BUS 51	48.000 RT	0+00.00	0.000 RT	183687.37	172761.04	60.0'
D	181+40.41 BUS 51	87.000 LT	54+09.16	50.007 RT	183926.26	172572.44	35.0'
E	182+36.82 BUS 51	87.000 LT	54+17.69	50.000 LT	184026.42	172565.49	35.0'
F	181+49.56 BUS 51	63.000 RT	55+58.90	50.000 RT	183950.12	172720.82	35.0'
G	182+52.66 BUS 51	63.000 RT	55+72.34	50.000 LT	184050.59	172714.38	35.0'
H	181+37.37 BUS 51	36.000 RT	55+31.23	60.000 RT	183935.81	172695.11	60.0'
I	181+31.77 BUS 51	72.000 LT	54+23.24	60.000 RT	183918.67	172588.32	60.0'

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
J	182+60.93 BUS 51	48.000 RT	55+54.60	60.000 LT	184058.01	172698.94	60.0'
K	182+49.66 BUS 51	60.000 LT	54+45.86	60.000 LT	184040.74	172591.74	60.0'
M	180+77.20 BUS 51	48.000 RT	0+00.00	0.000 RT	183879.78	172714.49	20.0'
O	180+06.99 BUS 51	48.000 RT	0+00.00	0.000 RT	183813.52	172726.79	20.0'

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	INTERSECTION DETAIL	SHEET 22	E

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
P	190+22.54 BUS 51	58.000 RT	60+58.82	46.000 RT	184818.99	172666.52	30.0'
Q	191+14.55 BUS 51	58.000 RT	60+57.12	46.000 LT	184910.86	172661.40	30.0'
R	190+09.12 BUS 51	36.000 RT	60+37.76	60.000 RT	184804.37	172645.30	60.0'
S	190+15.88 BUS 51	72.000 LT	0+00.00	0.000	184805.11	172537.09	60.0'
T	190+49.45 BUS 51	62.000 LT	0+00.00	0.000	184839.18	172545.21	10.0'
U	190+42.02 BUS 51	72.000 LT	0+00.00	0.000	184831.20	172535.64	20.0'
V	191+02.31 BUS 51	62.000 LT	0+00.00	0.000	184891.96	172542.26	10.0'
W	191+09.74 BUS 51	72.000 LT	0+00.00	0.000	184898.82	172531.87	20.0'
X	191+28.82 BUS 51	48.000 RT	60+46.28	60.000 LT	184924.55	172650.62	60.0'
Y	191+35.79 BUS 51	60.000 LT	0+00.00	0.000	184925.50	172542.40	60.0'

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
BB	192+92.74 BUS 51	62.000 LT	0+00.00	0.000	185081.47	172531.51	10.0'
CC	192+85.17 BUS 51	72.000 LT	0+00.00	0.000	185073.40	172522.02	20.0'
DD	193+46.49 BUS 51	62.000 LT	0+00.00	0.000	185134.19	172527.67	10.0'
EE	193+54.07 BUS 51	72.000 LT	0+00.00	0.000	185140.79	172517.10	20.0'
HH	192+60.19 BUS 51	36.000 RT	60+30.47	191.008 LT	185055.09	172631.32	60.0'
II	192+58.43 BUS 51	72.000 LT	0+00.00	0.000	185047.23	172523.59	60.0'
JJ	193+78.86 BUS 51	48.000 RT	60+36.93	311.434 LT	185175.65	172634.55	60.0'
KK	193+80.60 BUS 51	60.000 LT	0+00.00	0.000	185167.79	172526.82	60.0'
LL	192+66.87 BUS 51	48.000 RT	60+42.26	198.134 LT	185062.53	172642.91	20.0'
MM	192+74.24 BUS 51	38.000 RT	60+32.02	205.258 LT	185069.38	172632.48	10.0'
NN	193+48.72 BUS 51	48.000 RT	60+38.70	280.961 LT	185145.23	172637.13	20.0'
OO	193+41.35 BUS 51	38.000 RT	60+29.10	272.985 LT	185137.00	172627.76	10.0'

STA 188+85.8 LT
CONSTRUCT 45' WIDE PE
TYPE 2

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

STA 190+75.9 LT
CONSTRUCT 35' WIDE CE
TYPE 1

STA 190+70.19 BUSINESS 51 =
STA 60+00.00 RAINBOW DRIVE

STA 193+19.6 LT
CONSTRUCT 35' WIDE CE
TYPE 1

STA 194+86.6 LT
CONSTRUCT 35' WIDE CE
TYPE 1

CHARTER COMMUNICATIONS
(OH ATTACHED TO WPS)

WPS
(OH ELEC)
(UG GAS)

SLOPE INTERCEPT (TYP)

VILLAGE OF PLOVER
(SAN SEWER)
(WATER MAIN)

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

BUSINESS 51

CONCRETE CURB & GUTTER
INTEGRAL 30-INCH TYPE A (TYP)

FENCE CHAIN LINK
6-FT

CHARTER COMMUNICATIONS
(OH TEL)

CONCRETE CURB & GUTTER
30-INCH TYPE A (TYP)

CONCRETE CURB & GUTTER
30-INCH TYPE A (TYP)

STA 60+67.18
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

RAINBOW DRIVE

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

AT&T (UG FO
IN CONDUIT)

STA 193+02.8 RT
CONSTRUCT 50' WIDE CE
TYPE 1

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

WPS
(UG GAS)

END CONSTRUCTION
STA 61+32.20
MATCH EXISTING
SAWCUT REQ'D

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	INTERSECTION DETAIL	SHEET 23	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\021101 ID.DWG
LAYOUT NAME - 021102

PLOT DATE : 10/23/2020 7:11 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

STA 196+89.4 LT
CONSTRUCT 35' WIDE CE
TYPE 1

CONCRETE CURB & GUTTER
30-INCH TYPE D

STA 198+16.4 LT
CONSTRUCT 12' WIDE PE
TYPE 2

STA 199+47.5 LT
CONSTRUCT 16' WIDE PE
TYPE 2

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

WI PUBLIC
SERVICE CORP

STA 200+47.5 LT
CONSTRUCT 35' WIDE CE
TYPE 1

STA 200+47.58 BUSINESS 51 =
STA 62+00.00 ROBERTS ROAD

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

WPS
(OH ELEC)
(UG GAS)

QQ
RR
UU
TT
XX
ZZ
BBB
FFF
VV
HHH
GGG
JJJ
YY
PP
WW
AAA
JII
BM 21
DDD
CCC

196+00
197+00
198+00
199+00
200+00
201+00
202+00
203+00

BUSINESS 51

SLOPE INTERCEPT (TYP)

CONCRETE CURB & GUTTER
30-INCH TYPE A (TYP)

AT&T (UG FO
IN CONDUIT)

CHARTER COMMUNICATIONS
(UG FO)

CONCRETE CURB & GUTTER
30-INCH TYPE A (TYP)

CONCRETE CURB & GUTTER
INTEGRAL 30-INCH TYPE A (TYP)

VILLAGE OF PLOVER
(SAN SEWER)
(WATER MAIN)

STA 196+37.3 RT
CONSTRUCT 16' WIDE PE
TYPE 2

STA 197+91.0 RT
CONSTRUCT 35' WIDE CE
TYPE 2

STA 62+77.74
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

ROBERTS ROAD

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

END CONSTRUCTION
STA 63+45.00
MATCH EXISTING
SAWCUT REQ'D

WPS
(OH ELEC)

CHARTER COMMUNICATIONS
(OH ATTACHED TO WPS)

STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
AAA	199+81.01 Plover	36.000 RT	0+00.00	0.000	185772.50	172527.83	60.0'
BBB	199+87.58 Plover	72.000 LT	0+00.00	0.000	185758.82	172420.49	60.0'
CCC	199+80.92 Plover	68.000 RT	0+00.00	0.000	185778.38	172559.28	40.0'
DDD	200+92.34 Plover	68.000 RT	0+00.00	0.000	185887.84	172538.51	40.0'
FFF	200+13.72 Plover	72.000 LT	0+00.00	0.000	185784.50	172415.62	20.0'
GGG	200+74.21 Plover	62.000 LT	0+00.00	0.000	185845.80	172414.17	10.0'
HHH	200+81.45 Plover	72.000 LT	0+00.00	0.000	185851.04	172402.99	20.0'
III	201+00.62 Plover	48.000 RT	0+00.00	0.000	185892.26	172517.31	60.0'
JJJ	201+07.58 Plover	60.000 LT	0+00.00	0.000	185878.96	172409.91	60.0'
PP	196+29.93 Plover	36.000 RT	60+00.74	562.983 LT	185426.14	172591.66	60.0'
QQ	196+28.18 Plover	72.000 LT	0+00.00	0.000	185407.66	172485.23	60.0'
RR	196+54.92 Plover	72.000 LT	0+00.00	0.000	185433.54	172481.08	10.0'

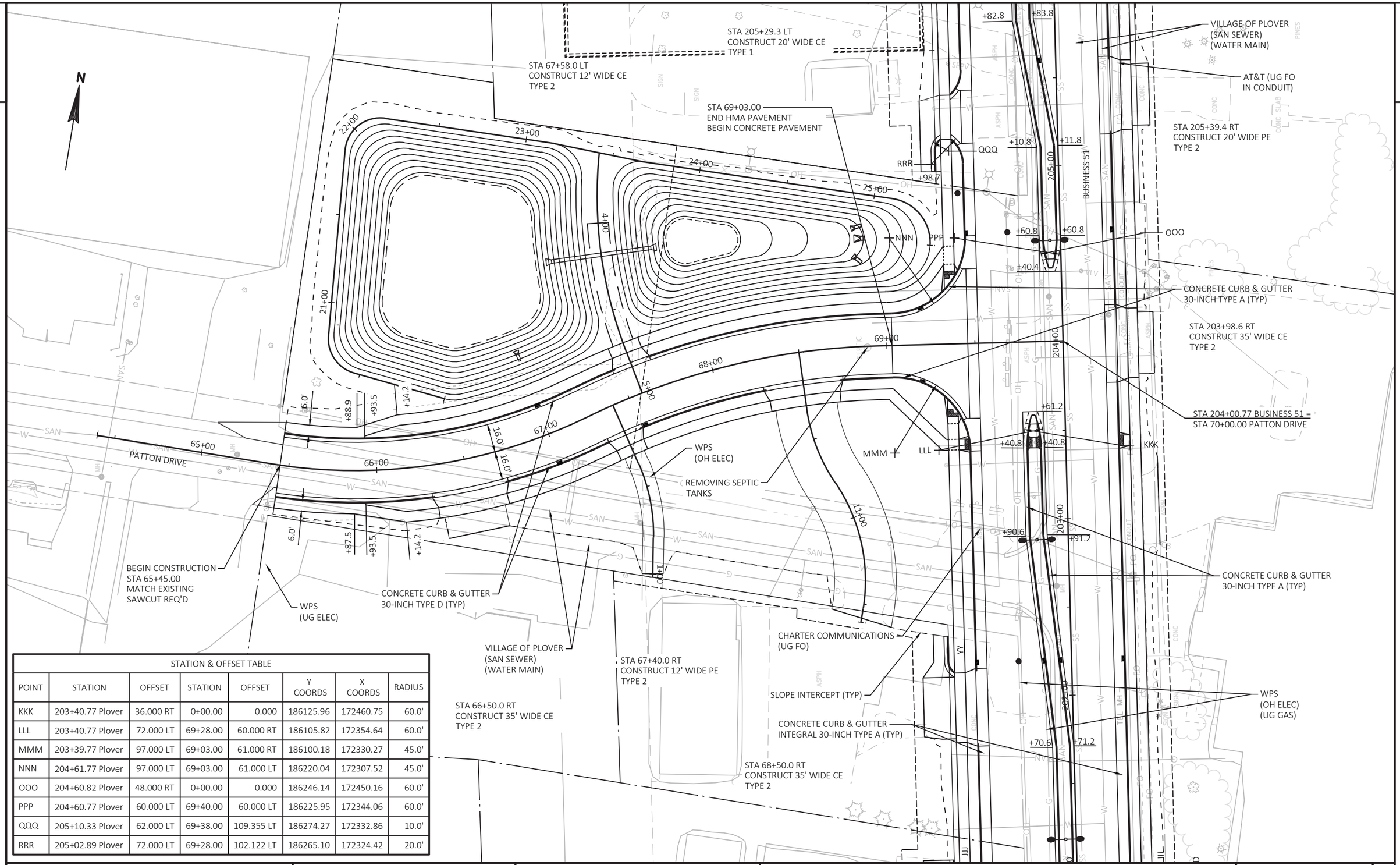
STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
TT	197+16.24 Plover	62.000 LT	0+00.00	0.000	185494.59	172480.69	10.0'
UU	197+23.81 Plover	72.000 LT	0+00.00	0.000	185500.11	172469.52	20.0'
VV	200+20.95 BUS 51	62.000 LT			185793.47	172424.10	10.0'
WW	197+48.62 Plover	48.000 RT	0+00.00	0.000	185546.42	172582.94	60.0'
XX	197+50.30 Plover	60.000 LT	0+00.00	0.000	185527.94	172476.52	60.0'
ZZ	198+07.10 Plover	83.500 LT	0+00.00	0.000	185579.36	172442.85	5.0'

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	INTERSECTION DETAIL	SHEET 24	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\021101 ID.DWG
LAYOUT NAME - 021103

PLOT DATE : 10/23/2020 7:11 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:50 FT

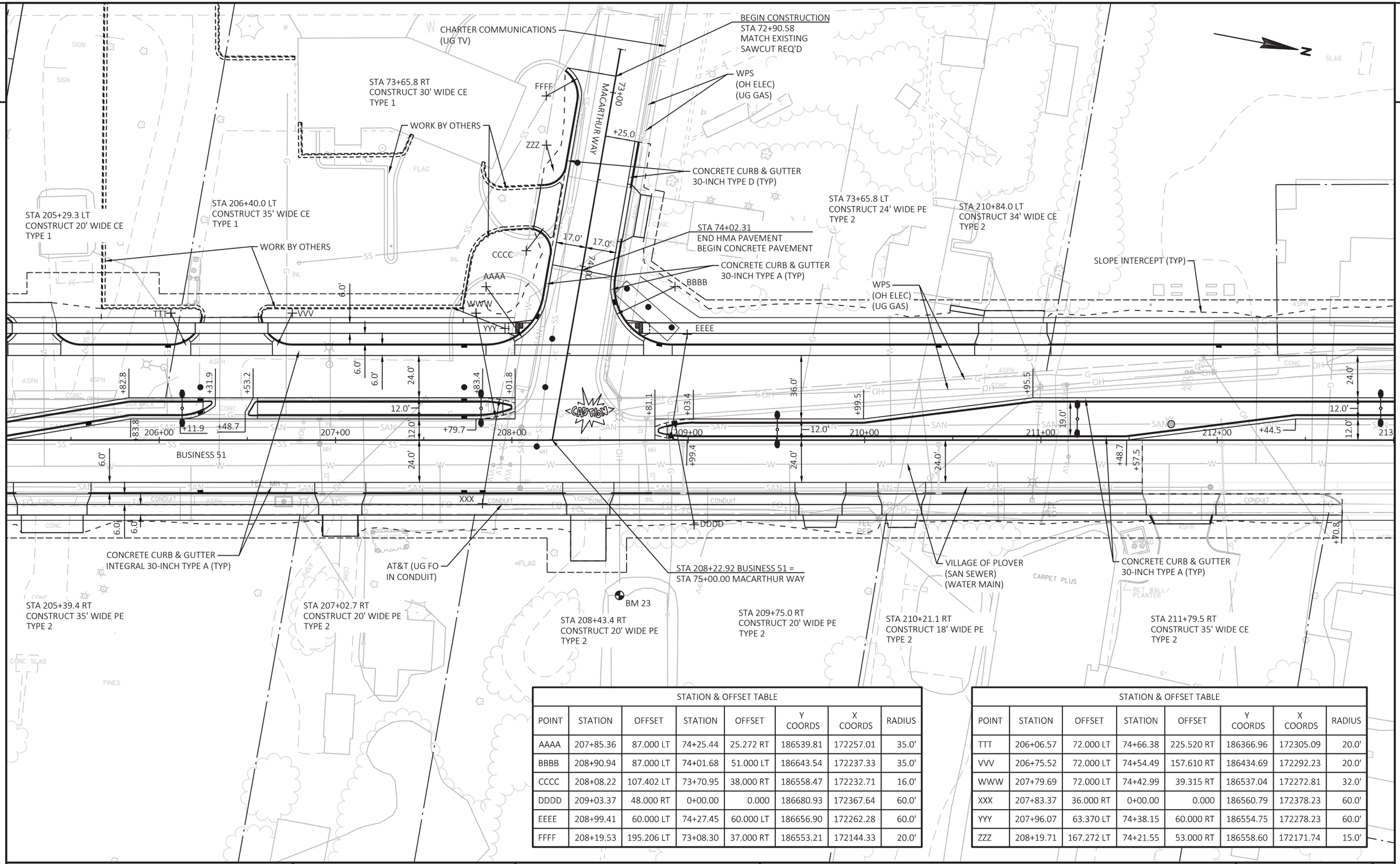
2



STATION & OFFSET TABLE							
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
KKK	203+40.77 Plover	36.000 RT	0+00.00	0.000	186125.96	172460.75	60.0'
LLL	203+40.77 Plover	72.000 LT	69+28.00	60.000 RT	186105.82	172354.64	60.0'
MMM	203+39.77 Plover	97.000 LT	69+03.00	61.000 RT	186100.18	172330.27	45.0'
NNN	204+61.77 Plover	97.000 LT	69+03.00	61.000 LT	186220.04	172307.52	45.0'
OOO	204+60.82 Plover	48.000 RT	0+00.00	0.000	186246.14	172450.16	60.0'
PPP	204+60.77 Plover	60.000 LT	69+40.00	60.000 LT	186225.95	172344.06	60.0'
QQQ	205+10.33 Plover	62.000 LT	69+38.00	109.355 LT	186274.27	172332.86	10.0'
RRR	205+02.89 Plover	72.000 LT	69+28.00	102.122 LT	186265.10	172324.42	20.0'

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	INTERSECTION DETAIL	SHEET 25	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\021101 ID.DWG
LAYOUT NAME - 021104
PLOT DATE : 11/30/2020 9:19 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42



STATION & OFFSET TABLE

POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
AAAA	207+85.36	87.000 LT	74+25.44	25.272 RT	186539.81	172257.01	35.0'
BBBB	208+90.94	87.000 LT	74+01.68	51.000 LT	186643.54	172237.33	35.0'
CCCC	208+08.22	107.402 LT	73+70.95	38.000 RT	186558.47	172232.71	16.0'
DDDD	209+03.37	48.000 RT	0+00.00	0.000	186680.93	172367.64	60.0'
EEEE	208+99.41	60.000 LT	74+27.45	60.000 LT	186656.90	172262.28	60.0'
FFFF	208+19.53	195.206 LT	73+08.30	37.000 RT	186553.21	172144.33	20.0'

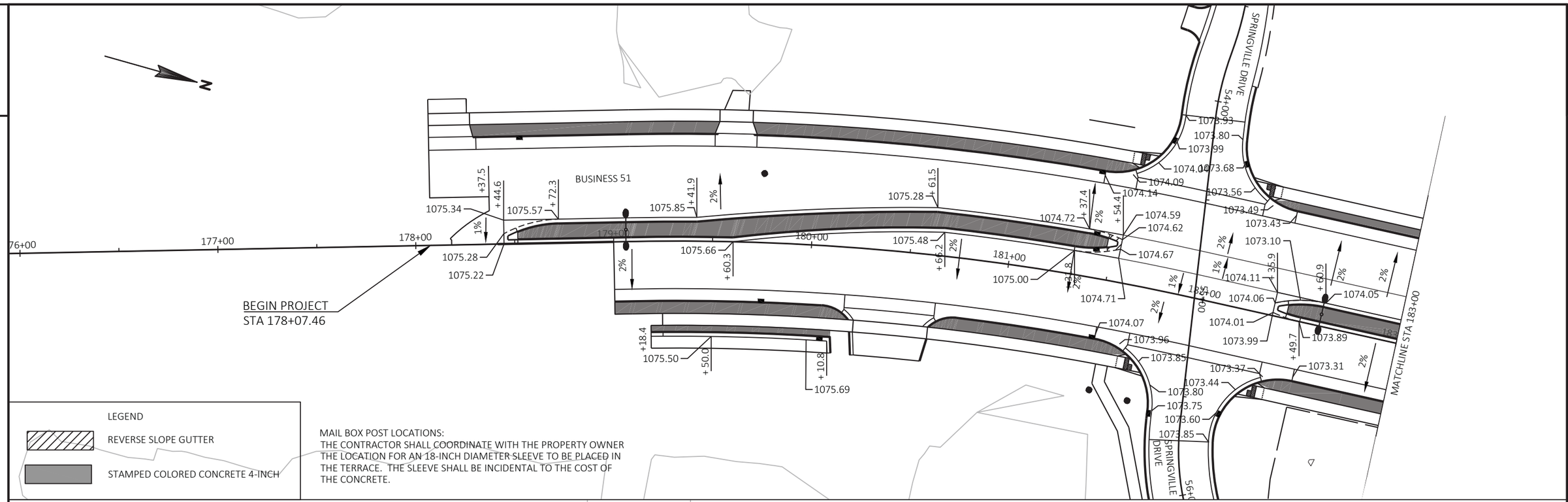
STATION & OFFSET TABLE

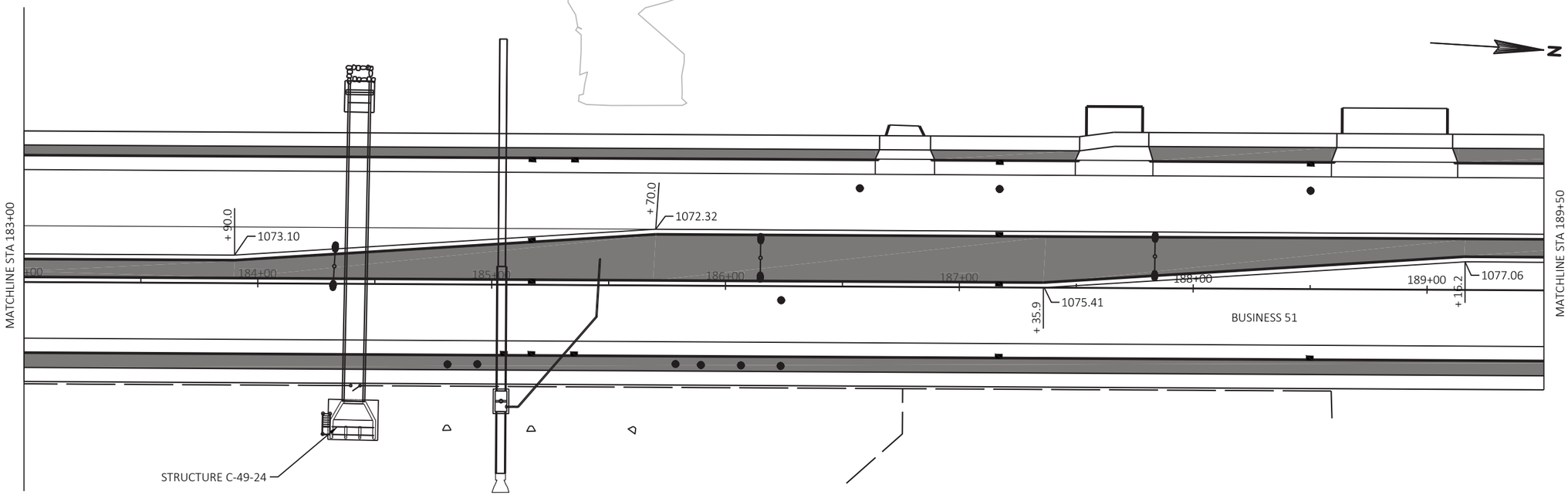
POINT	STATION	OFFSET	STATION	OFFSET	Y COORDS	X COORDS	RADIUS
TTT	206+06.57	72.000 LT	74+66.38	225.520 RT	186366.96	172305.09	20.0'
VVV	206+75.52	72.000 LT	74+54.49	157.610 RT	186434.69	172292.23	20.0'
WWW	207+79.69	72.000 LT	74+42.99	39.315 RT	186537.04	172272.81	32.0'
XXX	207+83.37	36.000 RT	0+00.00	0.000	186560.79	172378.23	60.0'
YYY	207+96.07	63.370 LT	74+38.15	60.000 RT	186554.75	172278.23	60.0'
ZZZ	208+19.71	167.272 LT	74+21.55	53.000 RT	186558.60	172171.74	15.0'

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	INTERSECTION DETAIL	SHEET 26	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\021101 ID.DWG
LAYOUT NAME - 021105
PLOT DATE : 10/23/2020 8:54 AM
PLOT BY : ANNIE M. JEROME
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

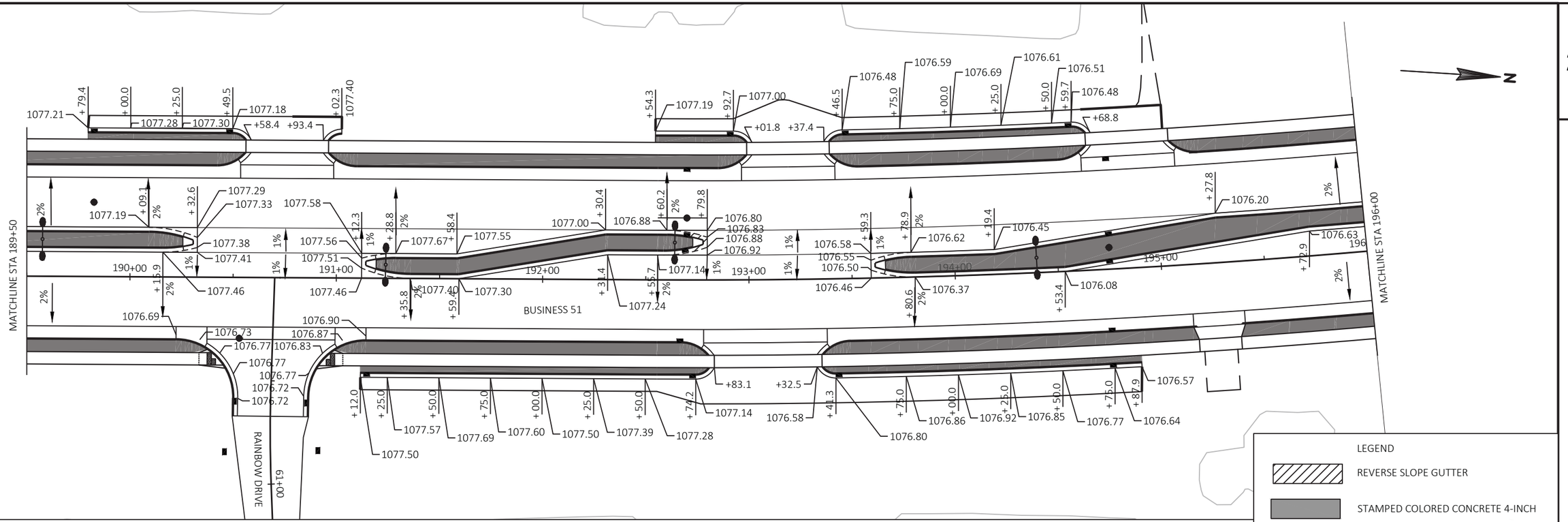
2

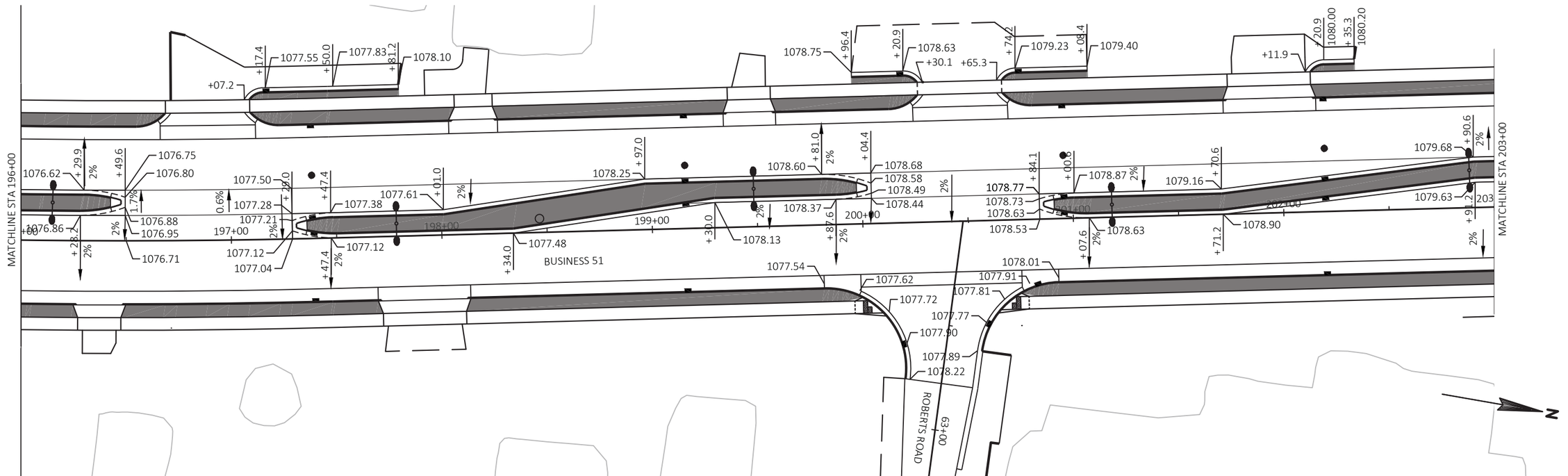




PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN DETAIL	SHEET 27	E

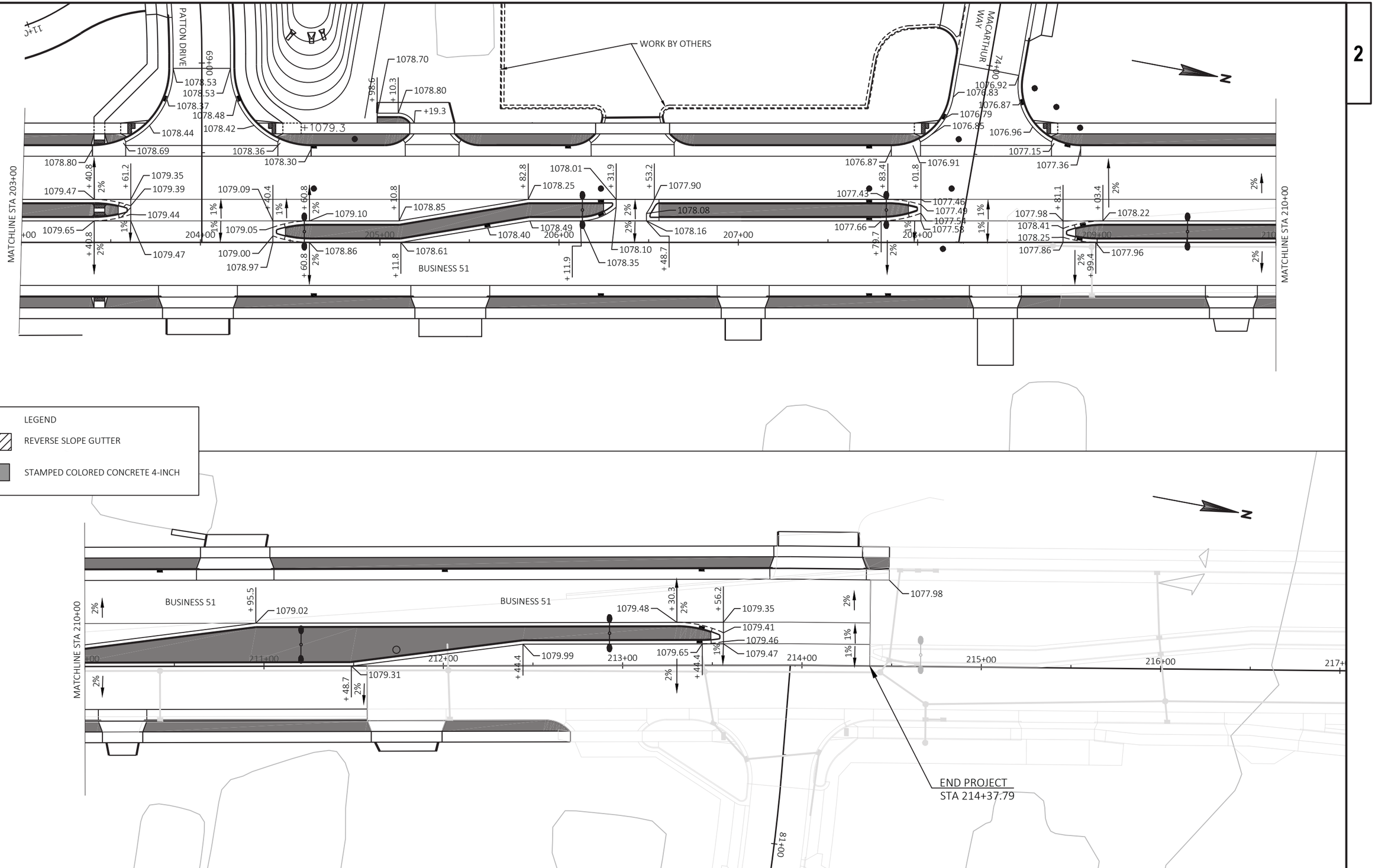
2





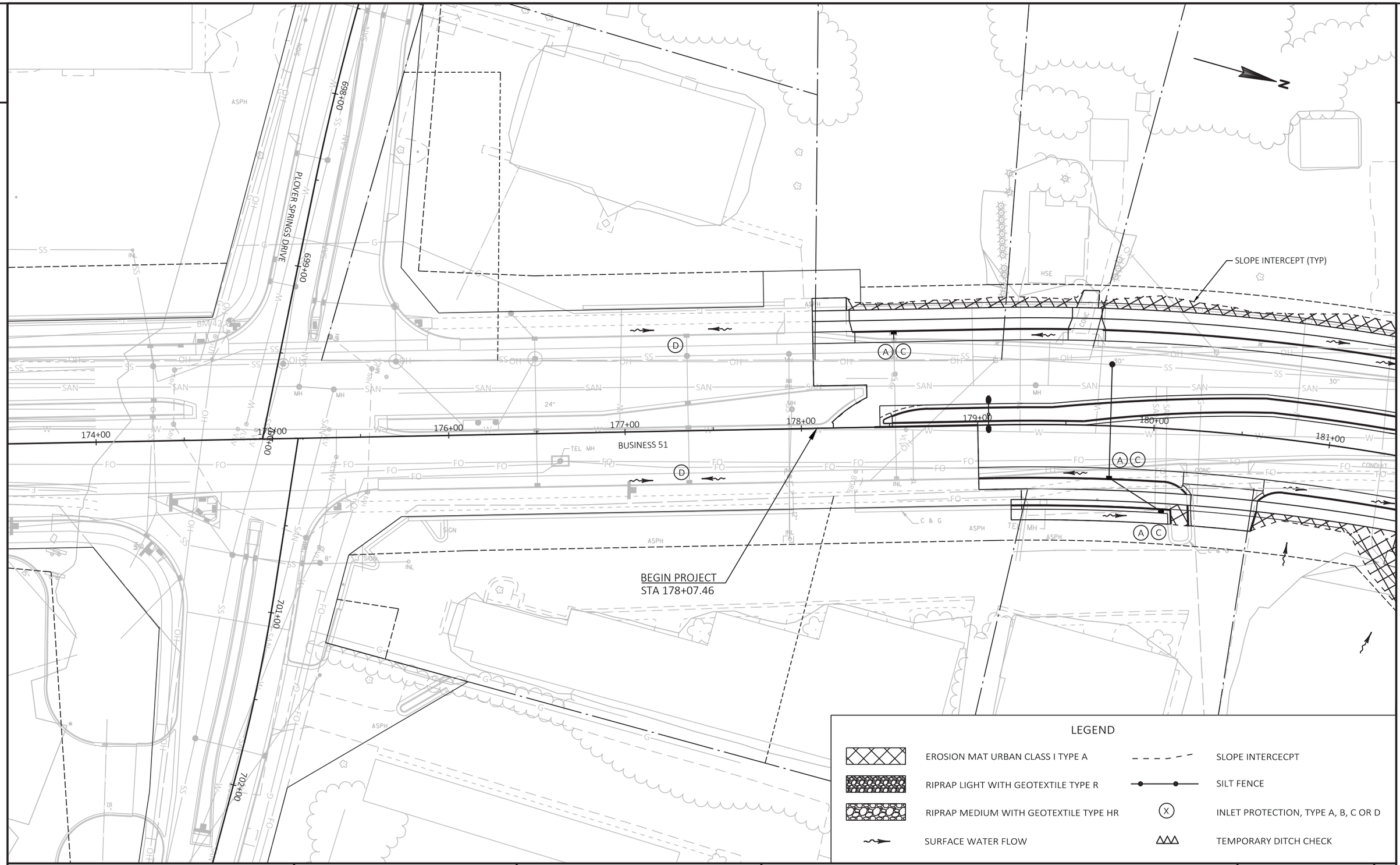
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN DETAIL	SHEET 28	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\021201 PD.DWG
LAYOUT NAME - 021202
PLOT DATE : 10/23/2020 7:13 AM
PLOT BY : ANNIE M. JEROME
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN DETAIL	SHEET 29 E

2



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	EROSION CONTROL	SHEET 30	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\022001 EC.DWG
LAYOUT NAME - 022001 ec

PLOT DATE : 10/23/2020 7:14 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

HISTORICAL

PROPERTY

OLD SWIMMING POOL

SPRINGVILLE DRIVE

BUSINESS 51

SLOPE INTERCEPT (TYP)

TYPE B GRIT CHAMBER

THE EXACT LOCATION OF SILT FENCE DEPENDENT UPON FINAL LOCATION OF COFFERDAM AND BYPASS SYSTEM

PERMITTED WETLAND IMPACT AREA 0.01 ACRES

SMALL ANIMAL TURN-AROUND

STRUCTURE C-49-24 (SEE STRUCTURE PLANS FOR ADDITIONAL DETAILS)

TYPE A GRIT CHAMBER

MEDIUM RIPRAP

TYPE C GRIT CHAMBER

SMALL ANIMAL TURN-AROUND

SLOPE INTERCEPT (TYP)

PERMITTED WETLAND IMPACT AREA 0.004 ACRES

LEGEND

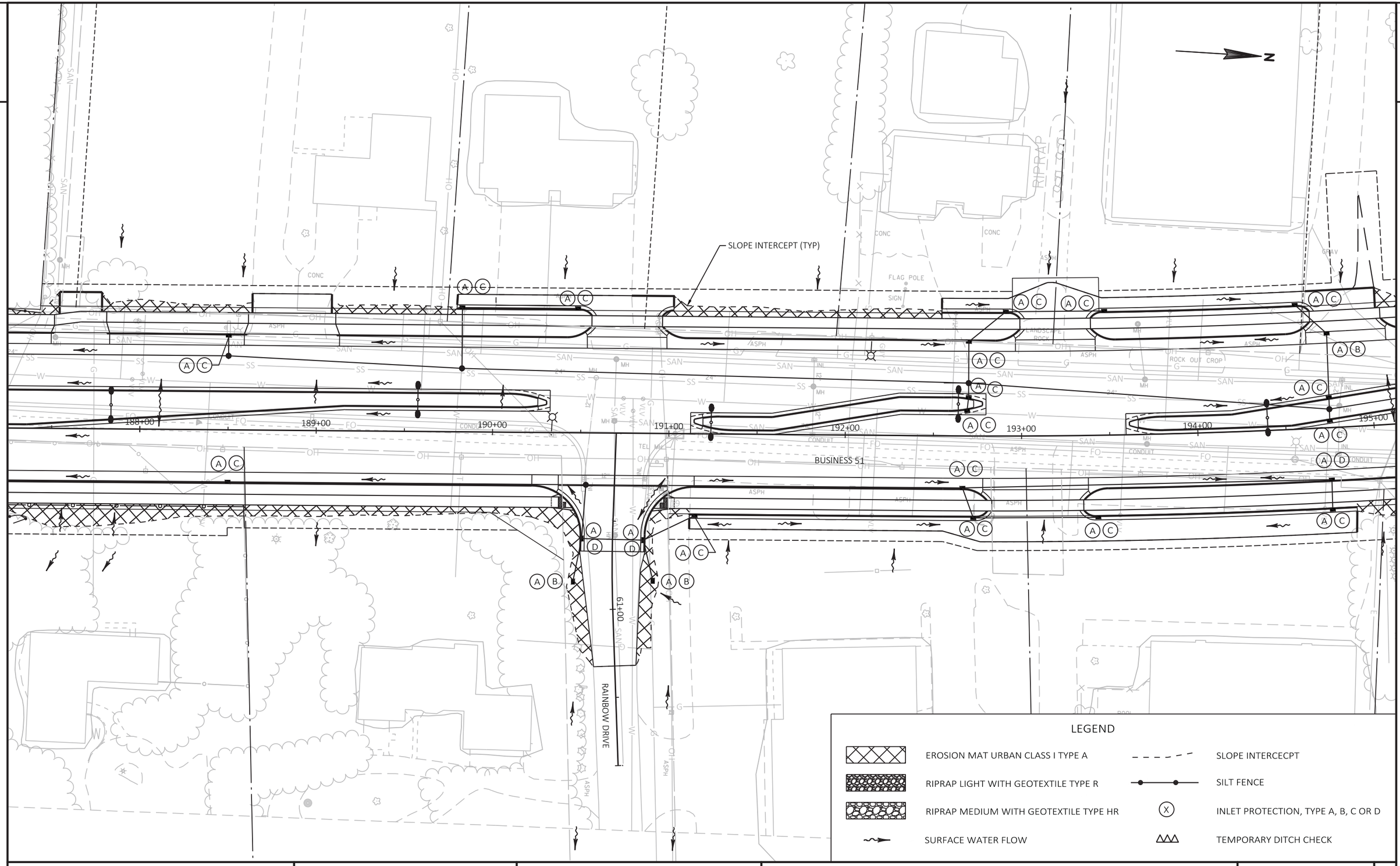
EROSION MAT URBAN CLASS I TYPE A	SLOPE INTERCECPT
RIPRAP LIGHT WITH GEOTEXTILE TYPE R	SILT FENCE
RIPRAP MEDIUM WITH GEOTEXTILE TYPE HR	INLET PROTECTION, TYPE A, B, C OR D
SURFACE WATER FLOW	TEMPORARY DITCH CHECK

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	EROSION CONTROL	SHEET 31	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\022001 EC.DWG
LAYOUT NAME - 022002 ec

PLOT DATE : 10/23/2020 7:15 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:50 FT

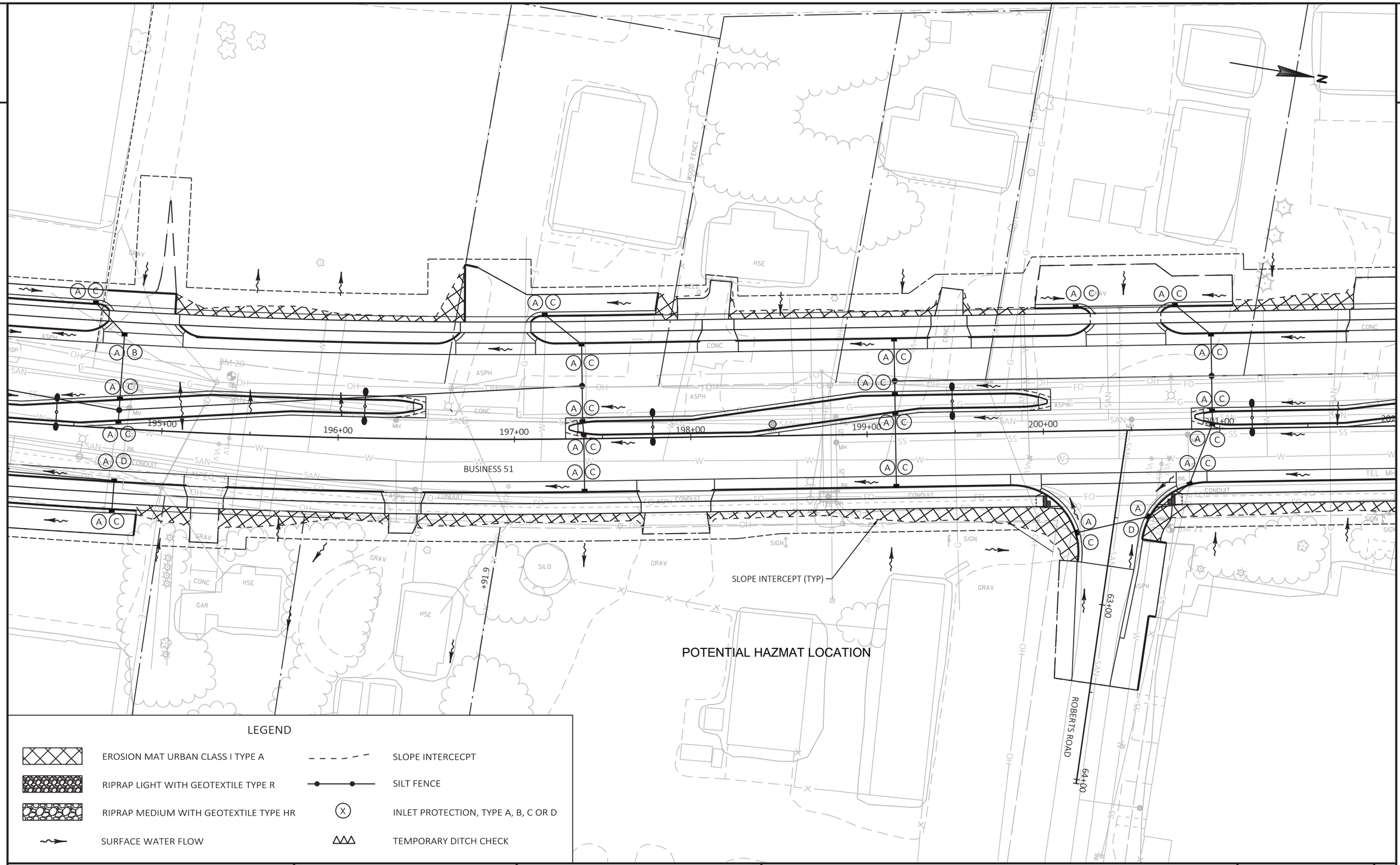
2



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	EROSION CONTROL	SHEET 32	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\022001 EC.DWG
LAYOUT NAME - 022003 ec
PLOT DATE : 10/23/2020 7:15 AM
PLOT BY : ANNIE M. JEROME
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2



LEGEND

- EROSION MAT URBAN CLASS I TYPE A
- RIPRAP LIGHT WITH GEOTEXTILE TYPE R
- RIPRAP MEDIUM WITH GEOTEXTILE TYPE HR
- SURFACE WATER FLOW
- SLOPE INTERCECPT
- SILT FENCE
- INLET PROTECTION, TYPE A, B, C OR D
- TEMPORARY DITCH CHECK

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	EROSION CONTROL	SHEET	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\022001 EC.DWG
LAYOUT NAME - 022004 ec

PLOT DATE : 10/23/2020 7:16 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

LEGEND

- EROSION MAT URBAN CLASS I TYPE A
- RIPRAP LIGHT WITH GEOTEXTILE TYPE R
- RIPRAP MEDIUM WITH GEOTEXTILE TYPE HR
- SURFACE WATER FLOW
- SLOPE INTERCECPT
- SILT FENCE
- INLET PROTECTION, TYPE A, B, C OR D
- TEMPORARY DITCH CHECK

PATTON DRIVE

MACARTHUR WAY

BUSINESS 51

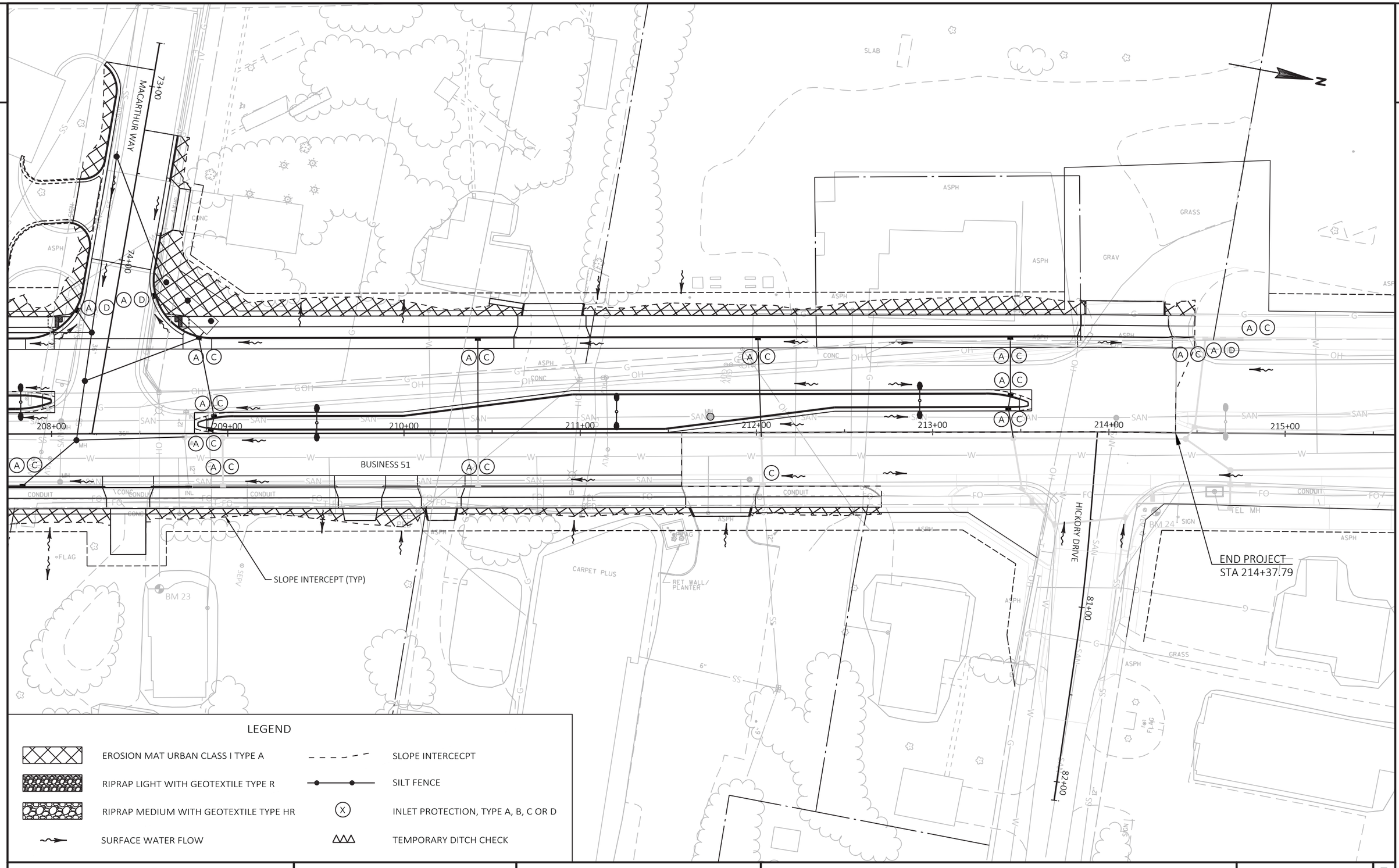
SLOPE INTERCEPT (TYP)

1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	EROSION CONTROL	SHEET 34	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\022001 EC.DWG
LAYOUT NAME - 022005 ec
PLOT DATE : 10/23/2020 8:58 AM
PLOT BY : ANNIE M. JEROME
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2



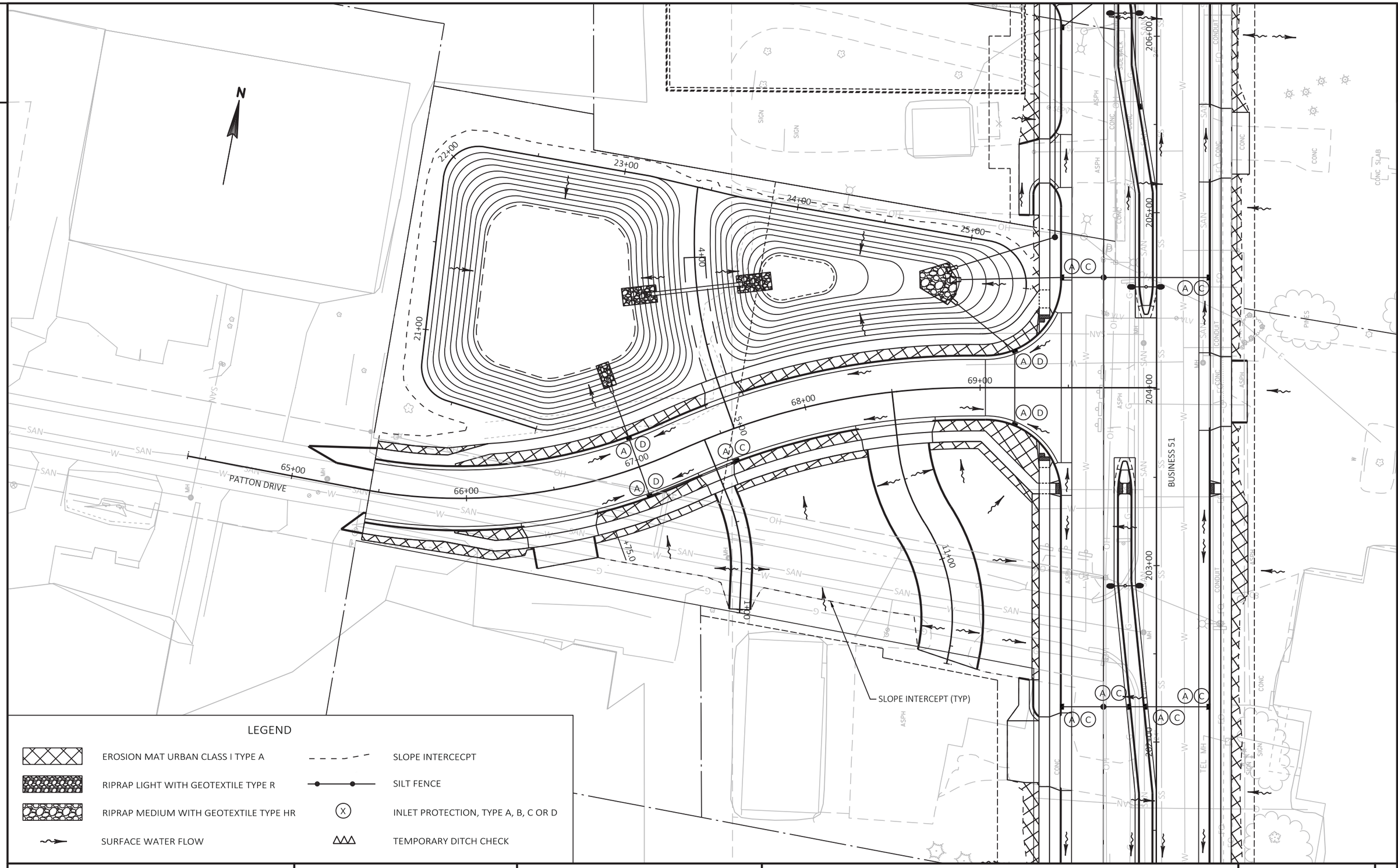
LEGEND

	EROSION MAT URBAN CLASS I TYPE A		SLOPE INTERCECPT
	RIPRAP LIGHT WITH GEOTEXTILE TYPE R		SILT FENCE
	RIPRAP MEDIUM WITH GEOTEXTILE TYPE HR	X	INLET PROTECTION, TYPE A, B, C OR D
	SURFACE WATER FLOW		TEMPORARY DITCH CHECK

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	EROSION CONTROL	SHEET 35	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\022001 EC.DWG
LAYOUT NAME - 022006 ec
PLOT DATE : 10/23/2020 7:17 AM
PLOT BY : ANNIE M. JEROME
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	EROSION CONTROL	SHEET 36	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\022001 EC.DWG
LAYOUT NAME - 022007 ec

PLOT DATE : 10/23/2020 7:18 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

1" = 50'



2

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN - GILMAN DRIVE SS LINING	SHEET 37	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\022501A SS.DWG
LAYOUT NAME - 01

PLOT DATE : 10/23/2020 7:19 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

2

N

1" = 50'

243'

EXISTING 36" SS PIPE TO BE LINED

WPS
(OH ELEC)
(UG GAS)

CAUTION

MACARTHUR WAY

SS

EXISTING MH

CONTRACTORS BLVD

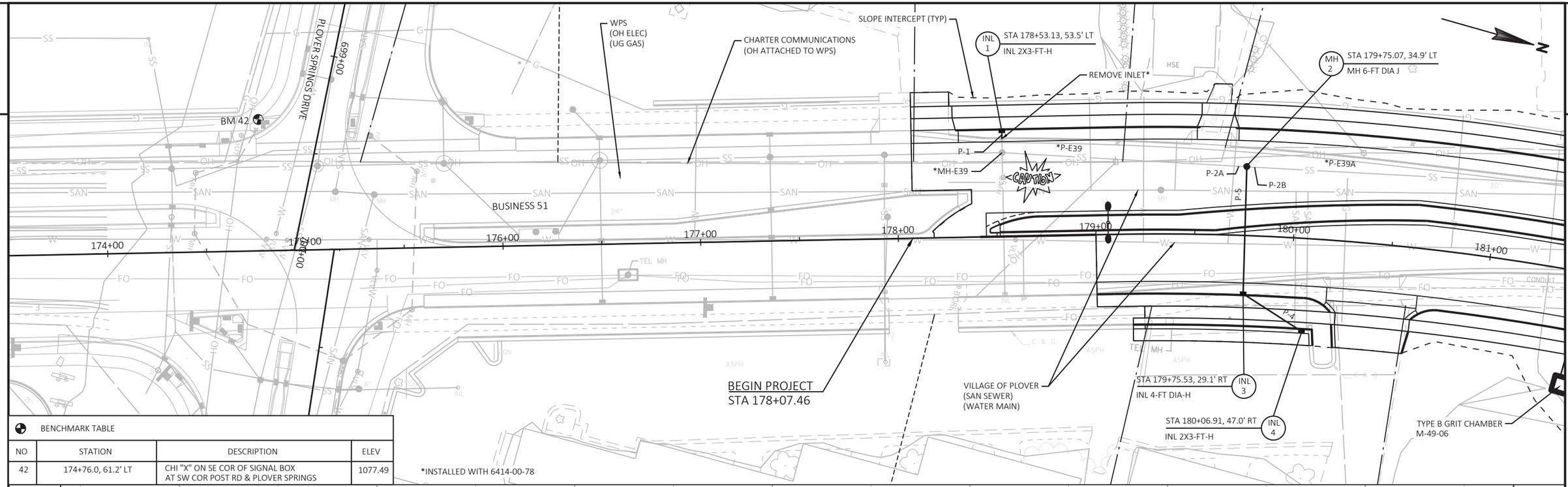
EXISTING INLET

2

PROJECT NO: 6414-00-78	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN - MACARTHUR WAY SS LINING	SHEET 38	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\022501A SS.DWG
LAYOUT NAME - 02

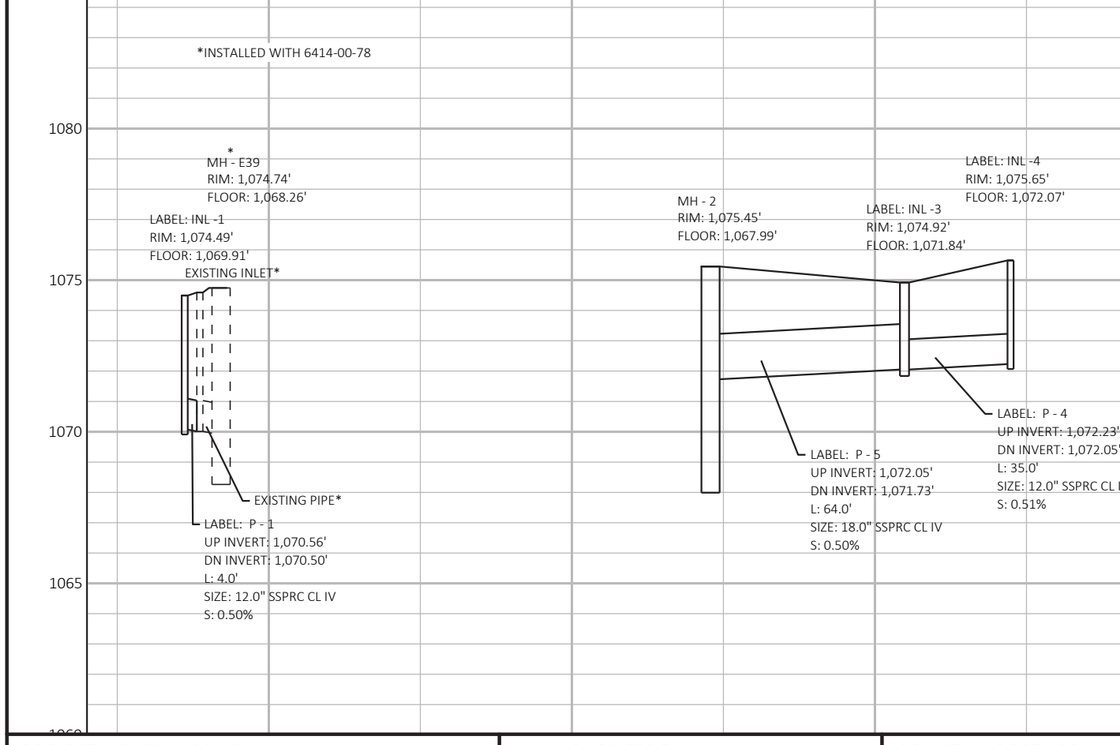
PLOT DATE : 10/23/2020 7:19 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:50 FT



BENCHMARK TABLE

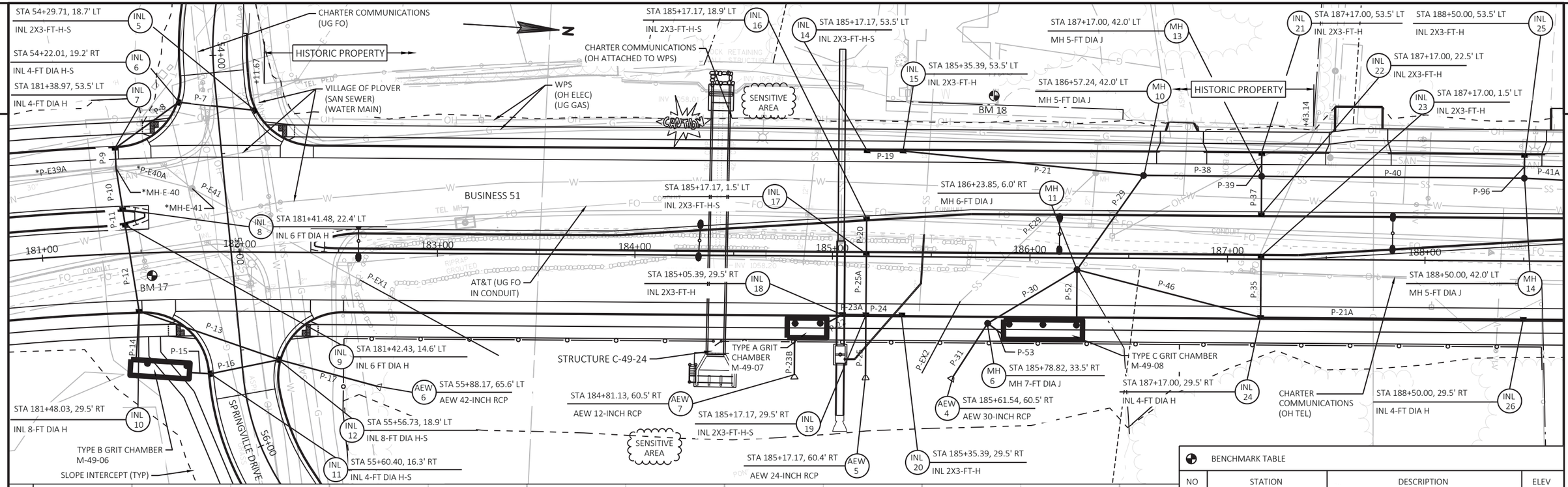
NO	STATION	DESCRIPTION	ELEV
42	174+76.0, 61.2' LT	CHI "X" ON SE COR OF SIGNAL BOX AT SW COR POST RD & PLOVER SPRINGS	1077.49

*INSTALLED WITH 6414-00-78



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	STORM SEWER	SHEET 39	E

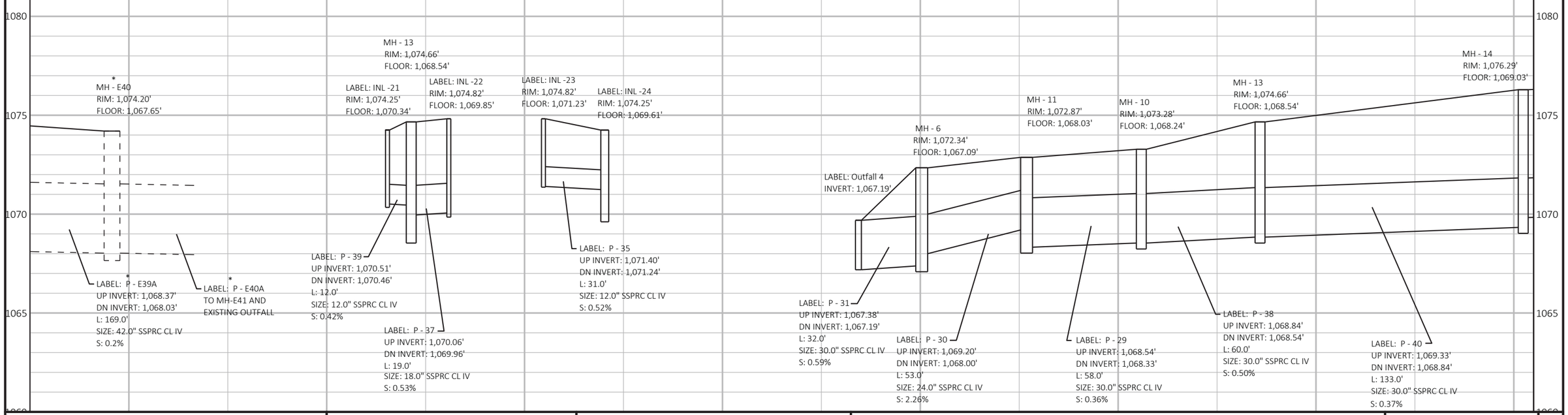
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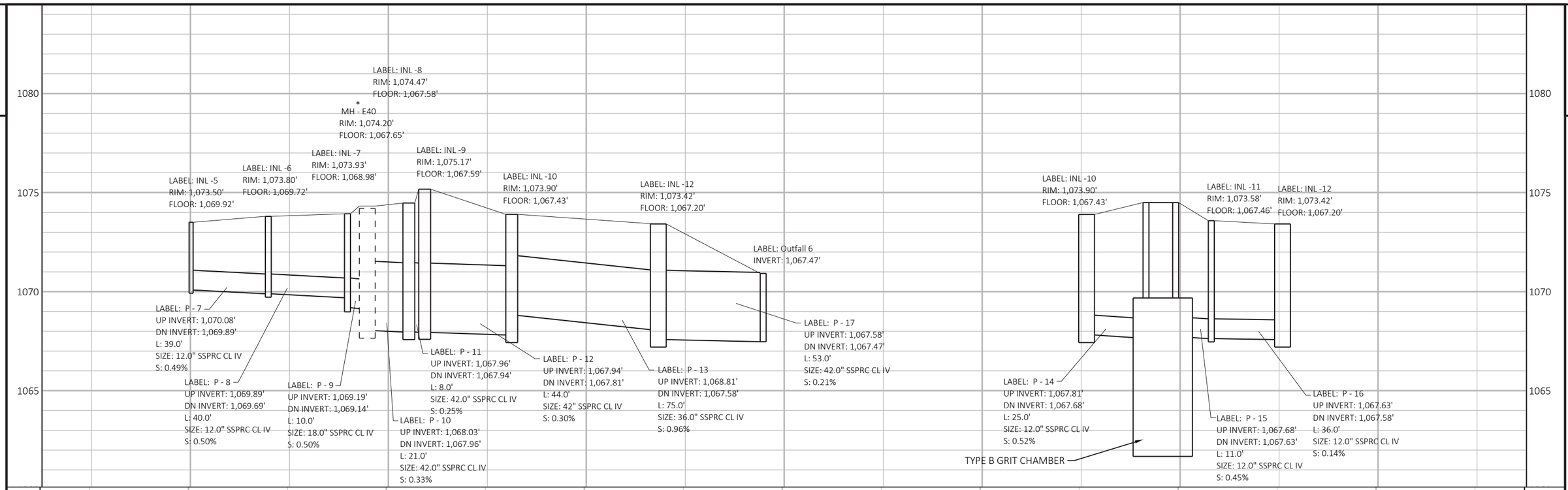
BENCHMARK TABLE

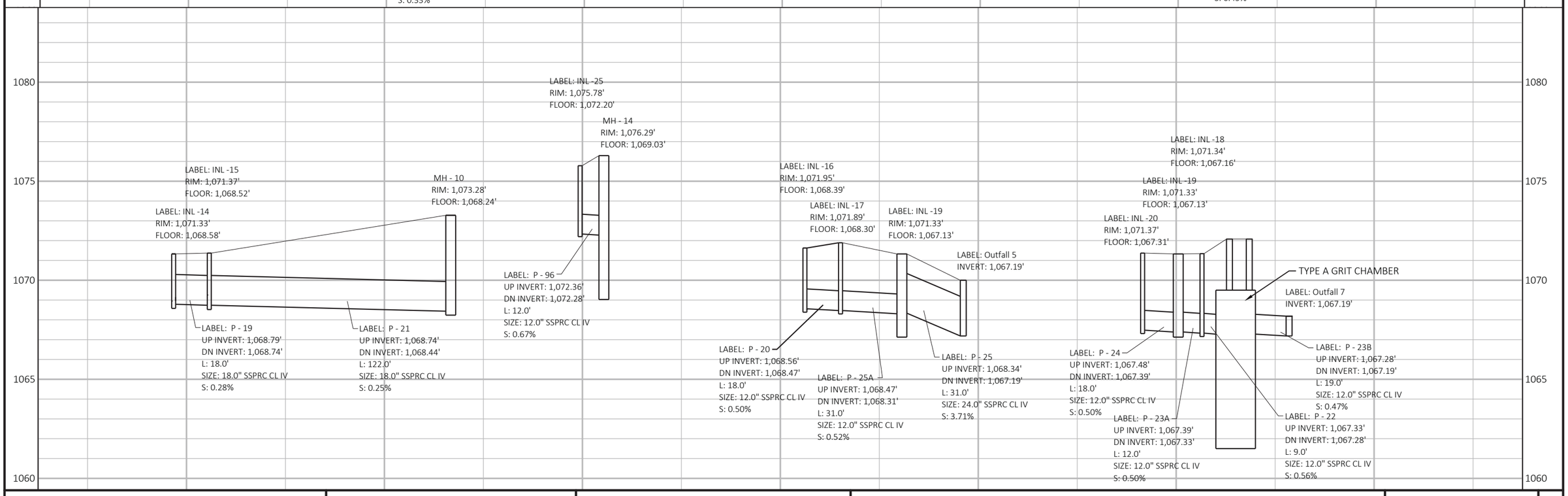
NO	STATION	DESCRIPTION	ELEV
17	181+52.0, 6.8' RT	NE FLANGE BOLT ON HYD AT SE COR POST RD & SPRINGVILLE DR	1076.15
18	185+81.0, 82.0' LT	MARK ON NE COR RETAINING WALL TO POOL W/S POST RD N/S PLOVER RVR	1072.45

*INSTALLED WITH 6414-00-78



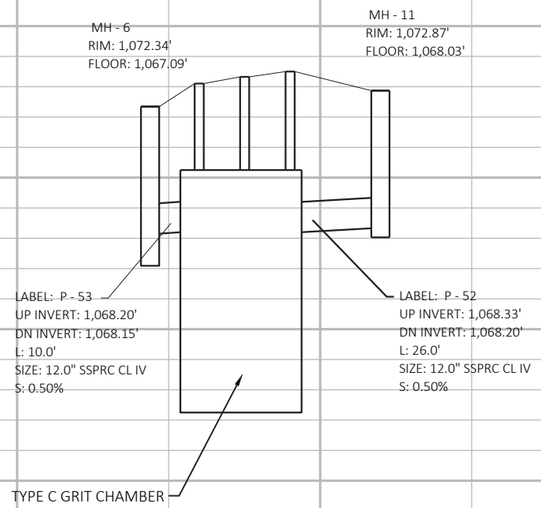
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	STORM SEWER	SHEET 40	E

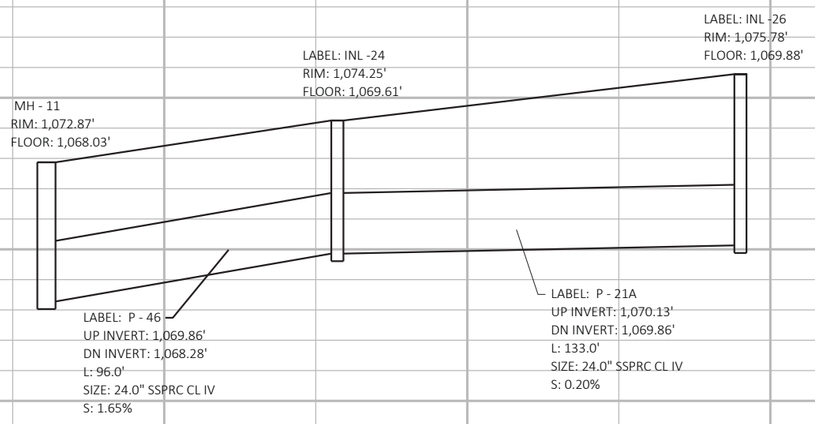




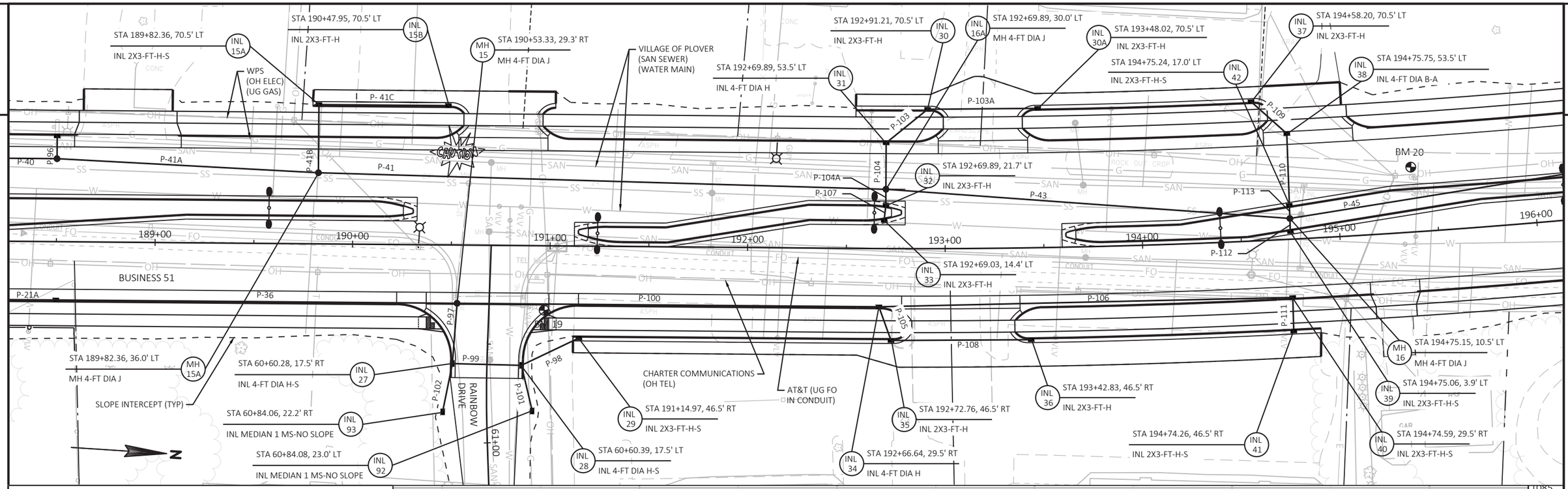
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	STORM SEWER	SHEET 41	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\022501 SS.DWG
LAYOUT NAME - 02A
PLOT DATE : 10/23/2020 7:23 AM
PLOT BY : ANNIE M. JEROME
PLOT NAME :
PLOT SCALE : 1 IN:50 FT


MH - 6
RIM: 1,072.34'
FLOOR: 1,067.09'
MH - 11
RIM: 1,072.87'
FLOOR: 1,068.03'
LABEL: P - 53
UP INVERT: 1,068.20'
DN INVERT: 1,068.15'
L: 10.0'
SIZE: 12.0" SSPRC CL IV
S: 0.50%
LABEL: P - 52
UP INVERT: 1,068.33'
DN INVERT: 1,068.20'
L: 26.0'
SIZE: 12.0" SSPRC CL IV
S: 0.50%
TYPE C GRIT CHAMBER
1080
1075
1070
1065
1060

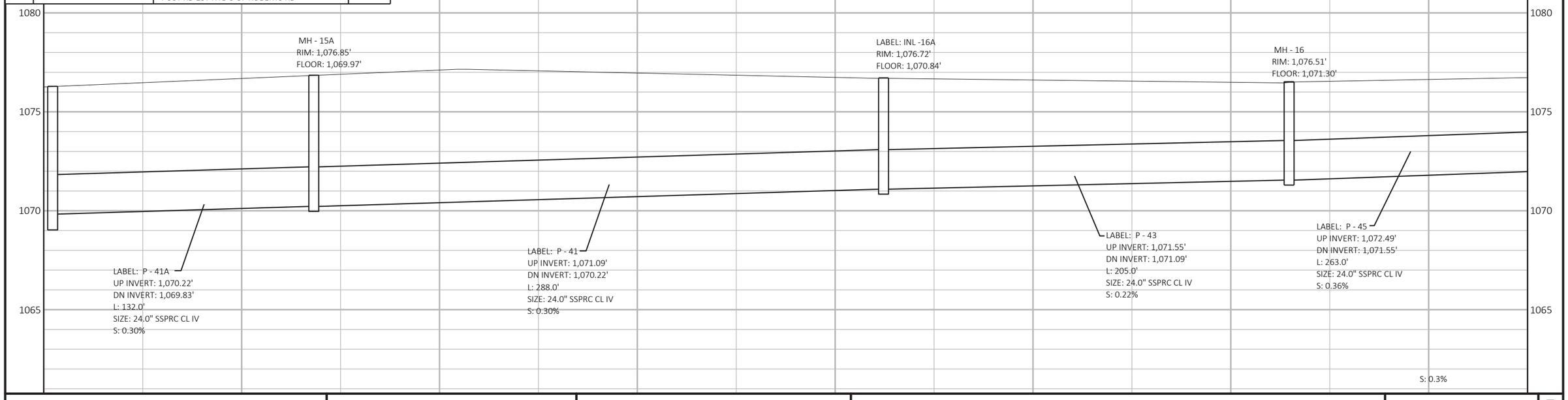

MH - 11
RIM: 1,072.87'
FLOOR: 1,068.03'
LABEL: INL -24
RIM: 1,074.25'
FLOOR: 1,069.61'
LABEL: INL -26
RIM: 1,075.78'
FLOOR: 1,069.88'
LABEL: P - 46
UP INVERT: 1,069.86'
DN INVERT: 1,068.28'
L: 96.0'
SIZE: 24.0" SSPRC CL IV
S: 1.65%
LABEL: P - 21A
UP INVERT: 1,070.13'
DN INVERT: 1,069.86'
L: 133.0'
SIZE: 24.0" SSPRC CL IV
S: 0.20%
1085
1080
1075
1070
1065

2

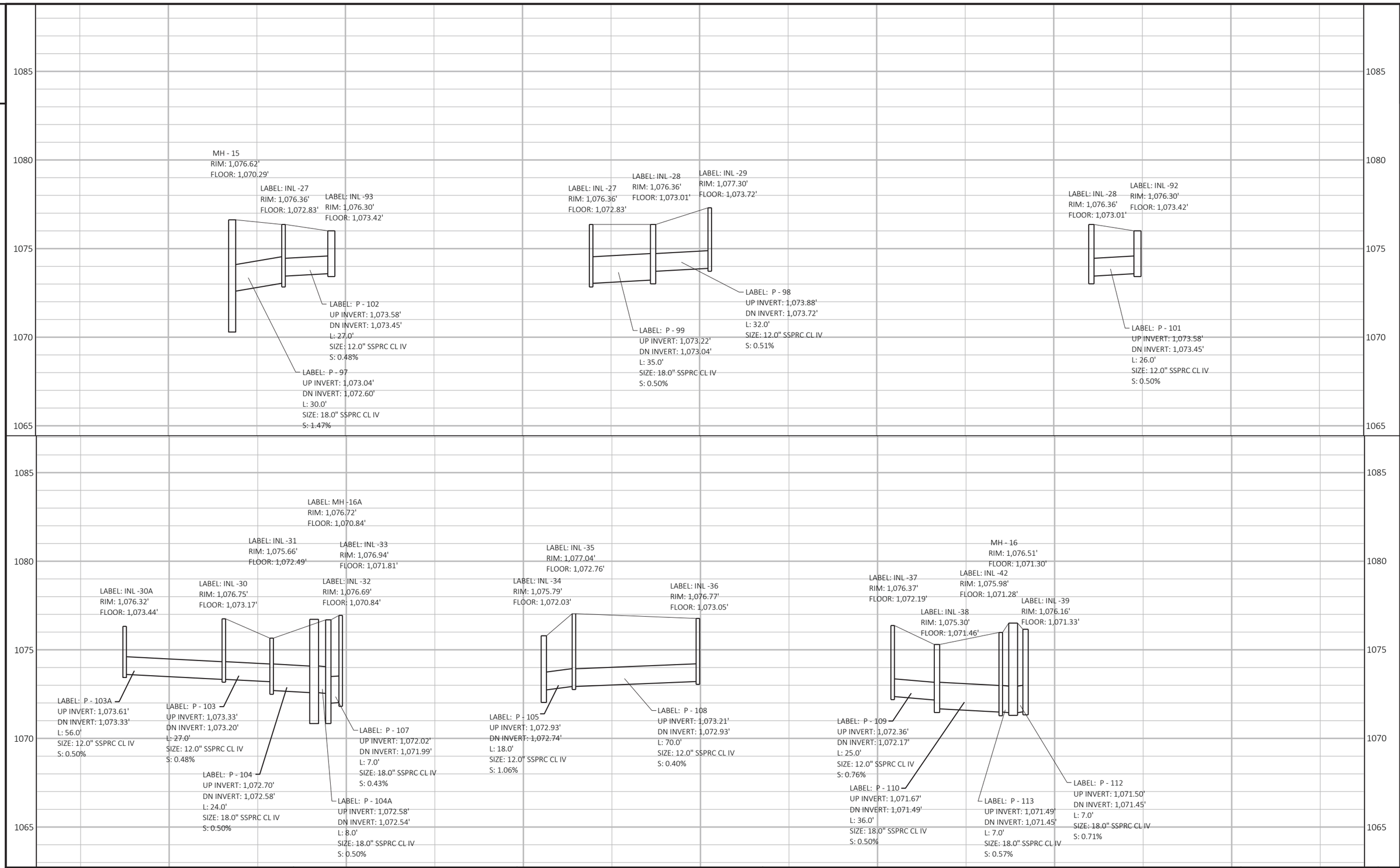


BENCHMARK TABLE

NO	STATION	DESCRIPTION	ELEV
19	190+92.5, 31.0' RT	NW FLANGE BOLT ON HYD AT NE COR POST RD & RAINBOW DR	1079.47
20	195+38.0, 27.8' LT	NW FLANGE BOLT ON HYD AT W/S POST RD 1ST HYD S OF ROBERTS RD	1078.34

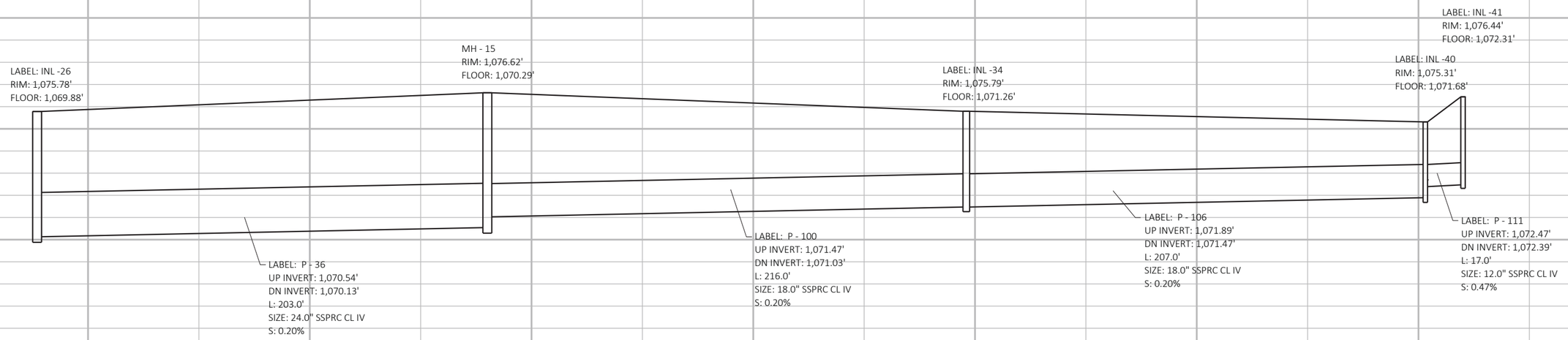


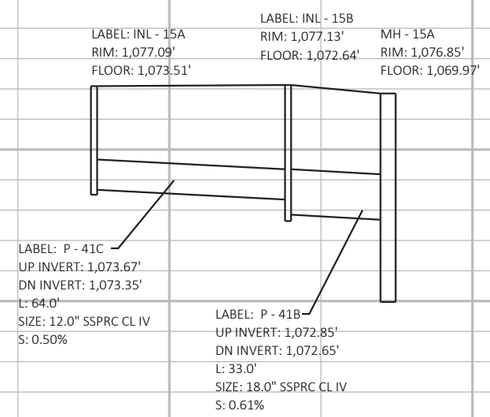
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	STORM SEWER	SHEET 43	E



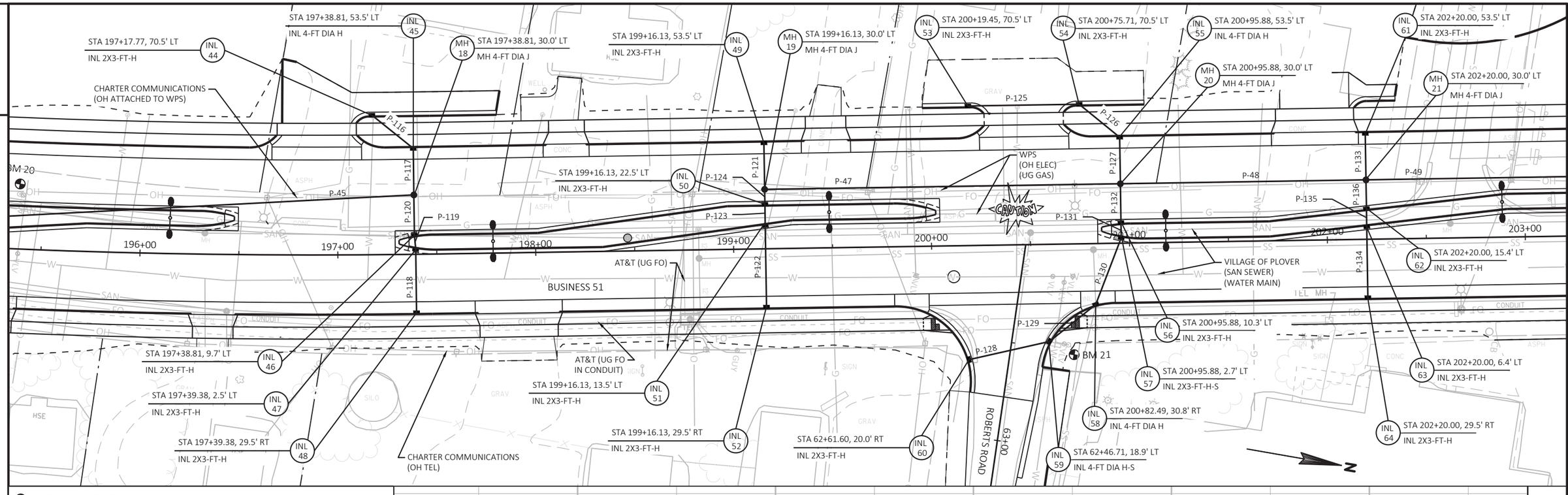
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	STORM SEWER	SHEET 44	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\022501 SS.DWG
LAYOUT NAME - 03A
PLOT DATE : 10/23/2020 7:26 AM
PLOT BY : ANNIE M. JEROME
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 41



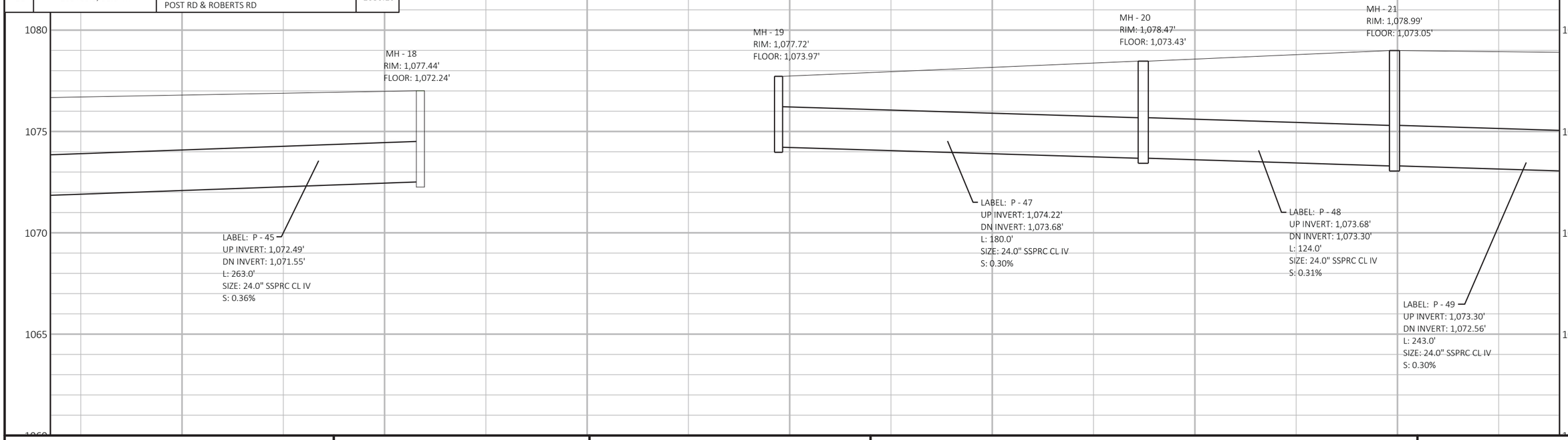


PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	STORM SEWER	SHEET 45	E

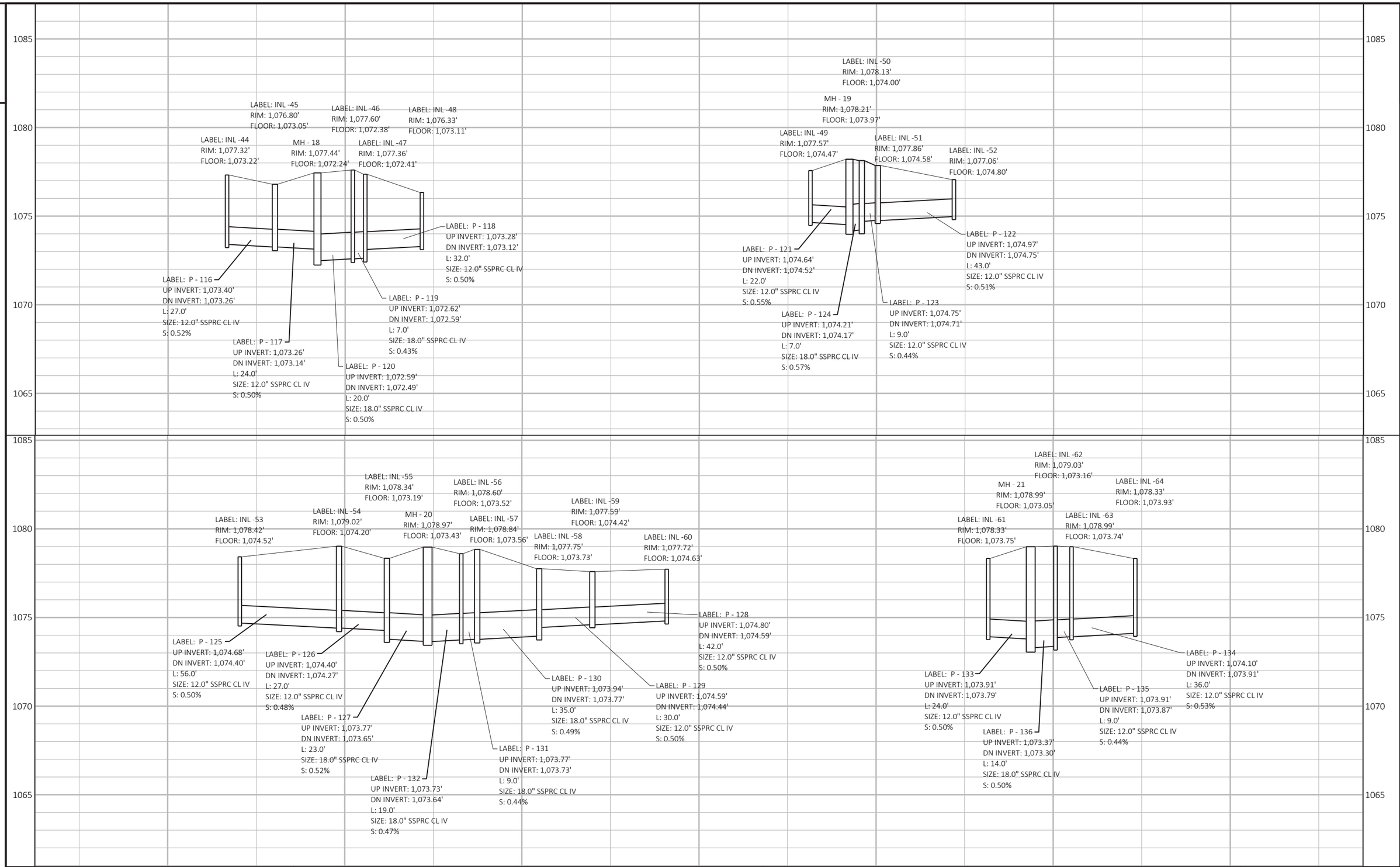


BENCHMARK TABLE

NO	STATION	DESCRIPTION	ELEV
21	200+68.5, 51.0' RT	NW FLANGE BOLT ON HYD AT NE COR POST RD & ROBERTS RD	1080.16

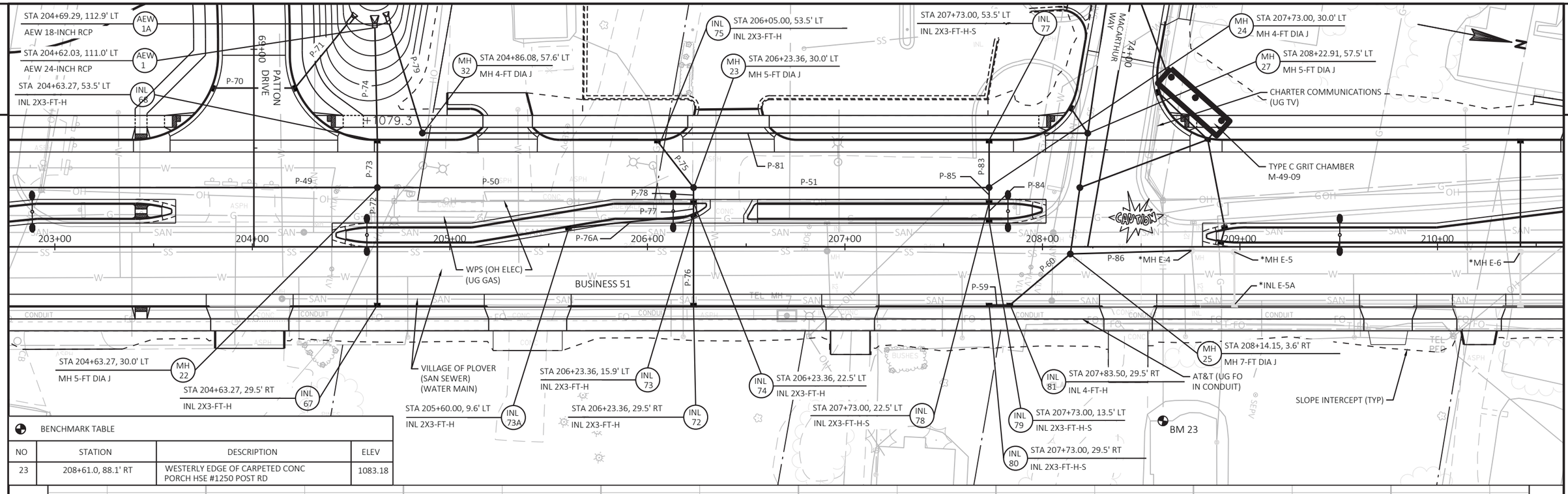


PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	STORM SEWER	SHEET 46 E



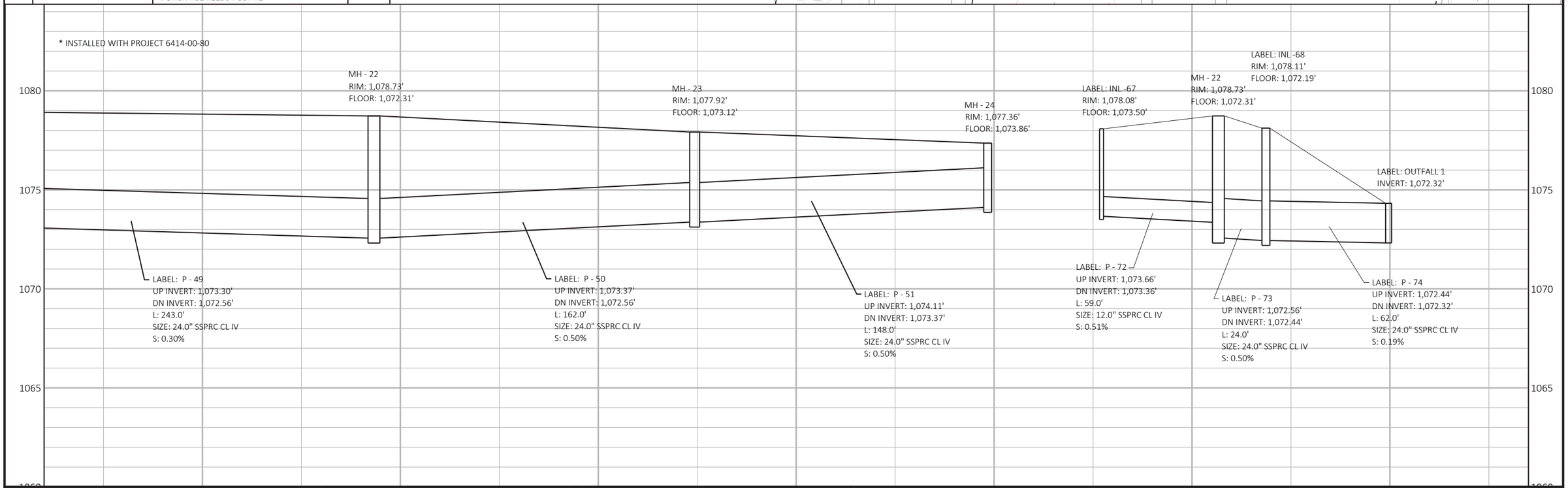
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	STORM SEWER	SHEET 47	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\022501 SS.DWG
LAYOUT NAME - 04A
PLOT DATE : 10/23/2020 7:29 AM
PLOT BY : ANNIE M. JEROME
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

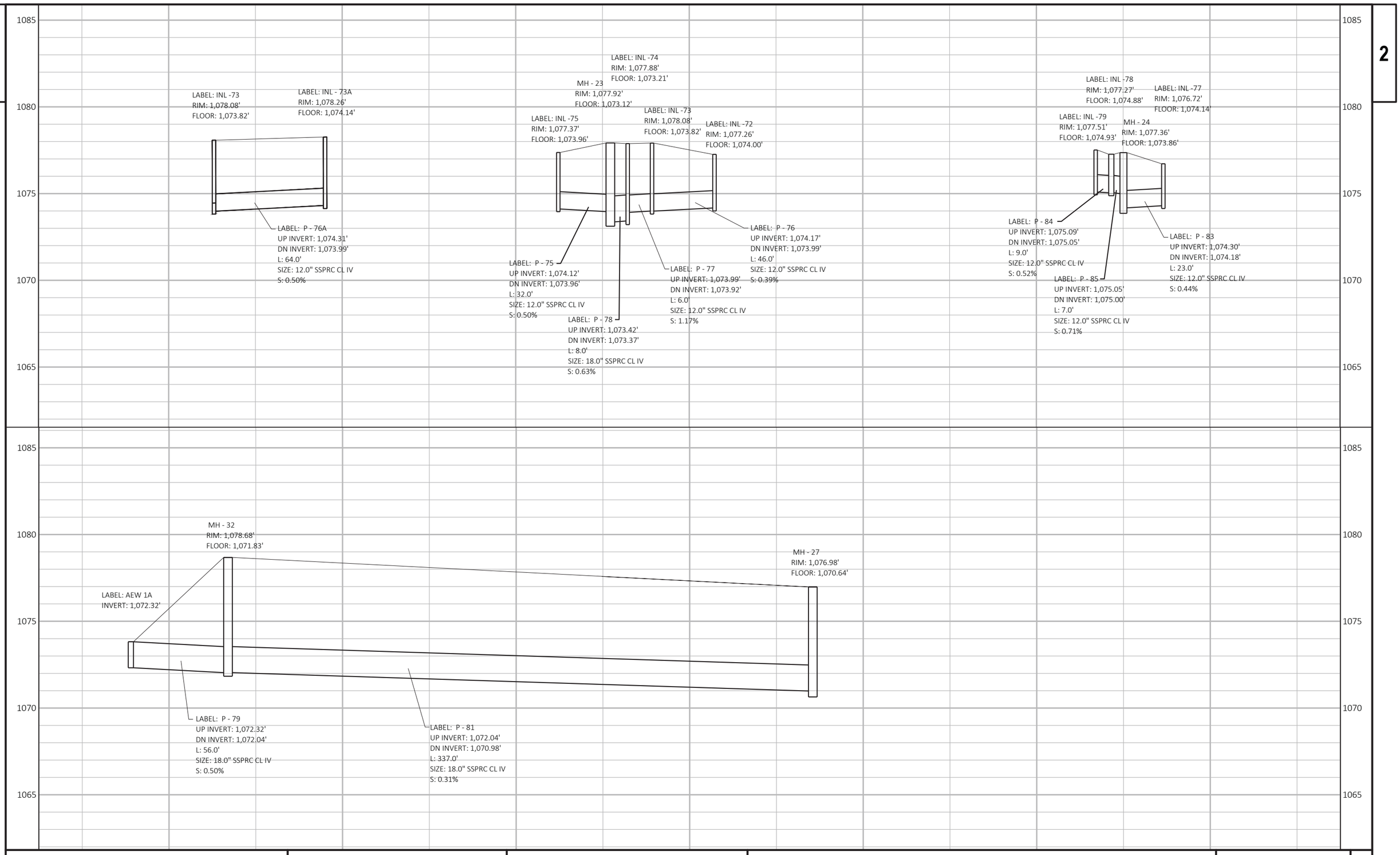


BENCHMARK TABLE

NO	STATION	DESCRIPTION	ELEV
23	208+61.0, 88.1' RT	WESTERLY EDGE OF CARPETED CONC PORCH HSE #1250 POST RD	1083.18



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	STORM SEWER	SHEET 48 E



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	STORM SEWER	SHEET 49	E

STA 210+42.00, 53.5' LT
INL 2X3-FT-H
INL 87

WPS
(OH ELEC)
(UG GAS)

CHARTER COMMUNICATIONS
(OH ATTACHED TO WPS)

INL 88
STA 212+00.95, 53.5' LT
INL 2X3-FT-H

VILLAGE OF PLOVER
(SAN SEWER)
(WATER MAIN)

INL 89
STA 213+44.15, 53.5' LT
INL 2X3-FT-H

INL 90
STA 213+44.15, 20.8' LT
INL 2X3-FT-H

INL 91
STA 213+42.95, 13.5' LT
INL 2X3-FT-H

CAUTION

P-94
P-95
P-87
P-88
P-89

210+00
211+00
212+00
213+00
214+00
215+00
216+00
217+00

*MH-E6
*MH-E7
*MH-E8

BUSINESS 51

HICKORY DRIVE

BM 24

END PROJECT
STA 214+37.79

SLOPE INTERCEPT (TYP)

CHARTER COMMUNICATIONS
(UG FO)

CARPET PLUS

BENCHMARK TABLE

NO	STATION	DESCRIPTION	ELEV
24	214+22.5, 44.2' RT	NW FLANGE BOLT ON HYD AT NE COR POST RD & HICKORY DR	1081.20

*INSTALLED WITH 6414-00-80

1080
1075
1070
1065

LABEL: INL -87
RIM: 1,077.96'
FLOOR: 1,073.38'

*MH - E6
RIM: 1,078.69'
FLOOR: 1,071.30'

LABEL: P - 94
UP INVERT: 1,073.54'
DN INVERT: 1,073.26'
L: 56.0'
SIZE: 12.0" SSPRC CL IV
S: 0.50%

LABEL: INL -88
RIM: 1,078.82'
FLOOR: 1,074.40'

*MH - E7
RIM: 1,079.57'
FLOOR: 1,071.59'

LABEL: P - 95
UP INVERT: 1,074.57'
DN INVERT: 1,074.29'
L: 56.0'
SIZE: 12.0" SSPRC CL IV
S: 0.50%

LABEL: INL -89
RIM: 1,078.63'
FLOOR: 1,074.05'

*MH - E8
RIM: 1,079.33'
FLOOR: 1,071.91'

LABEL: P - 87
UP INVERT: 1,074.21'
DN INVERT: 1,074.04'
L: 33.0'
SIZE: 12.0" SSPRC CL IV
S: 0.52%

LABEL: INL -90
RIM: 1,079.68'
FLOOR: 1,073.87'

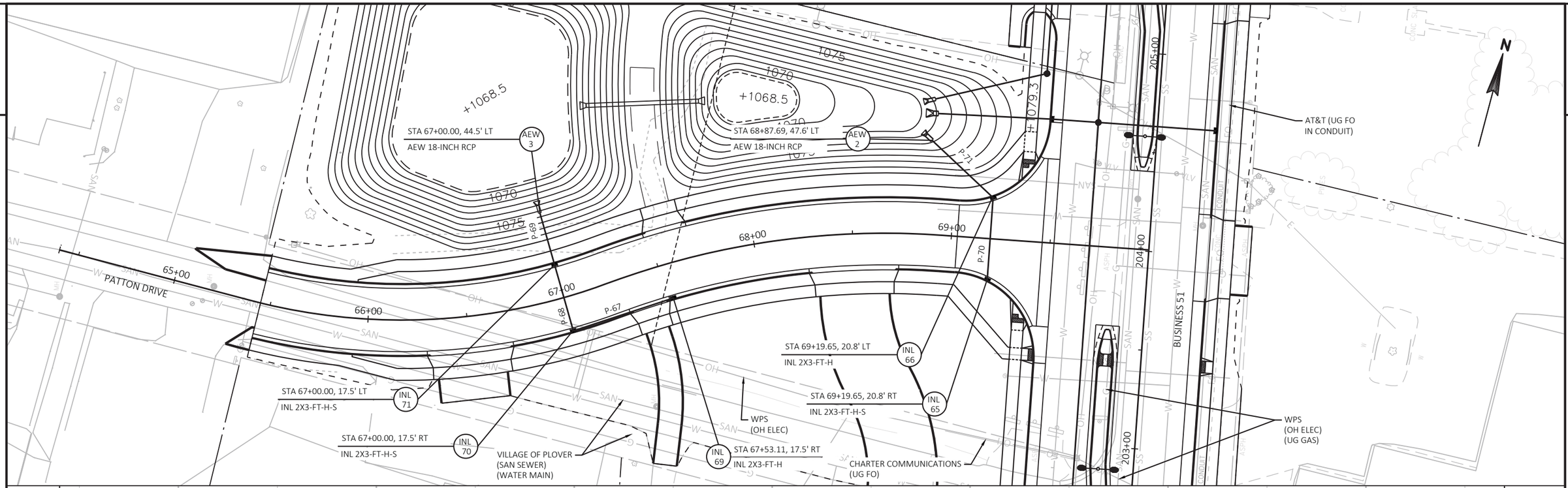
LABEL: P - 88
UP INVERT: 1,074.04'
DN INVERT: 1,074.00'
L: 8.0'
SIZE: 12.0" SSPRC CL IV
S: 0.50%

LABEL: INL -91
RIM: 1,079.44'
FLOOR: 1,073.29'

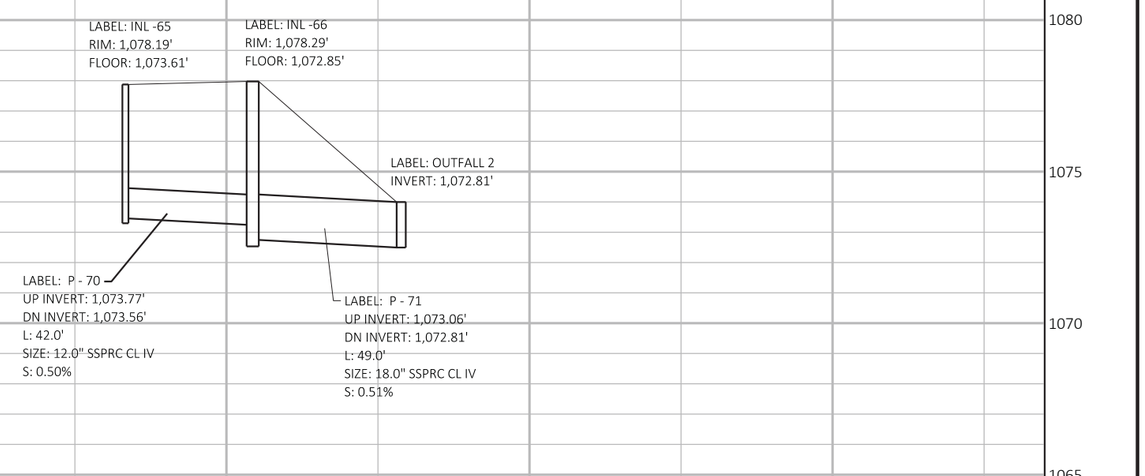
LABEL: P - 89
UP INVERT: 1,073.50'
DN INVERT: 1,073.41'
L: 17.0'
SIZE: 18.0" SSPRC CL IV
S: 0.53%

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	STORM SEWER	SHEET 50	E

2

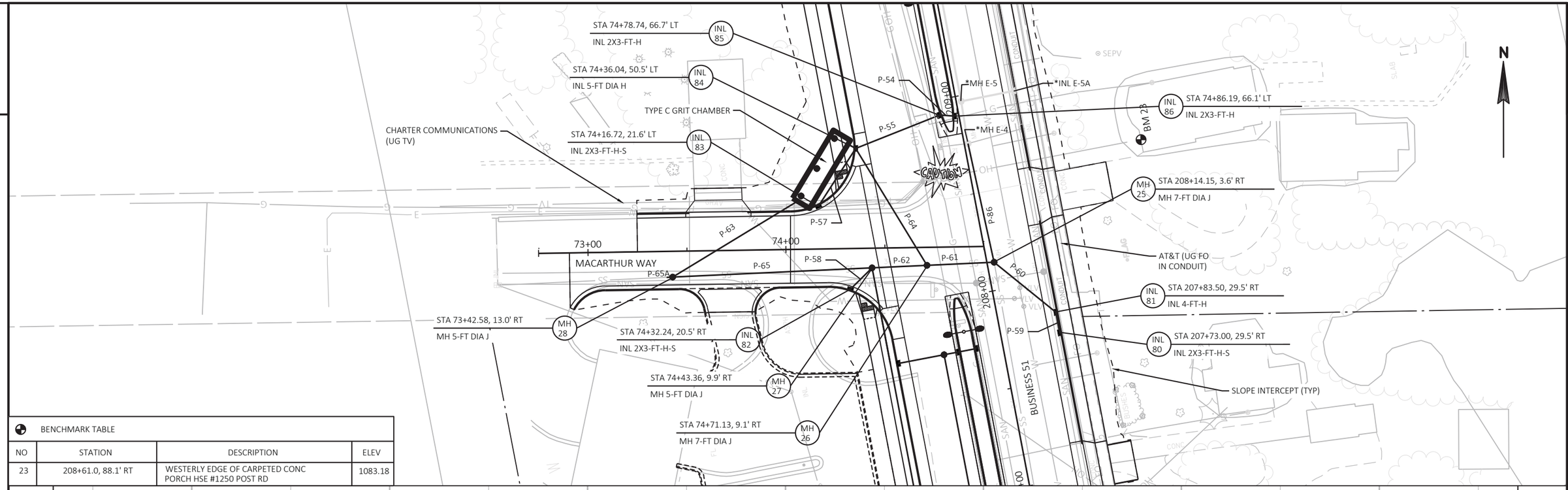




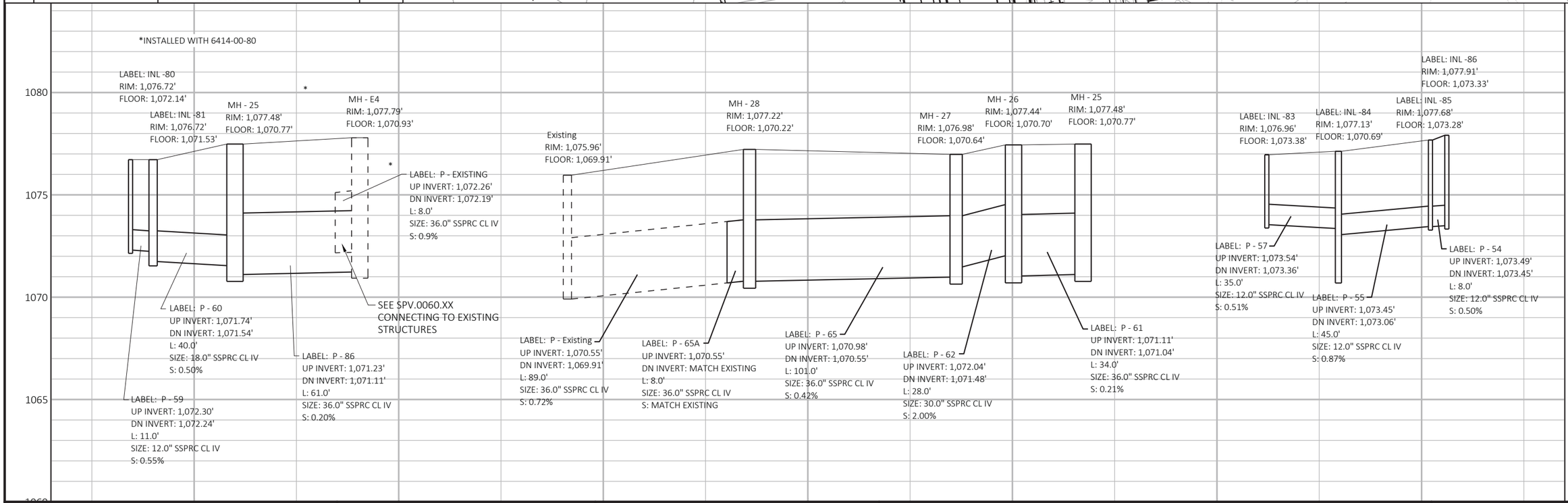


PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	STORM SEWER	SHEET 51	E

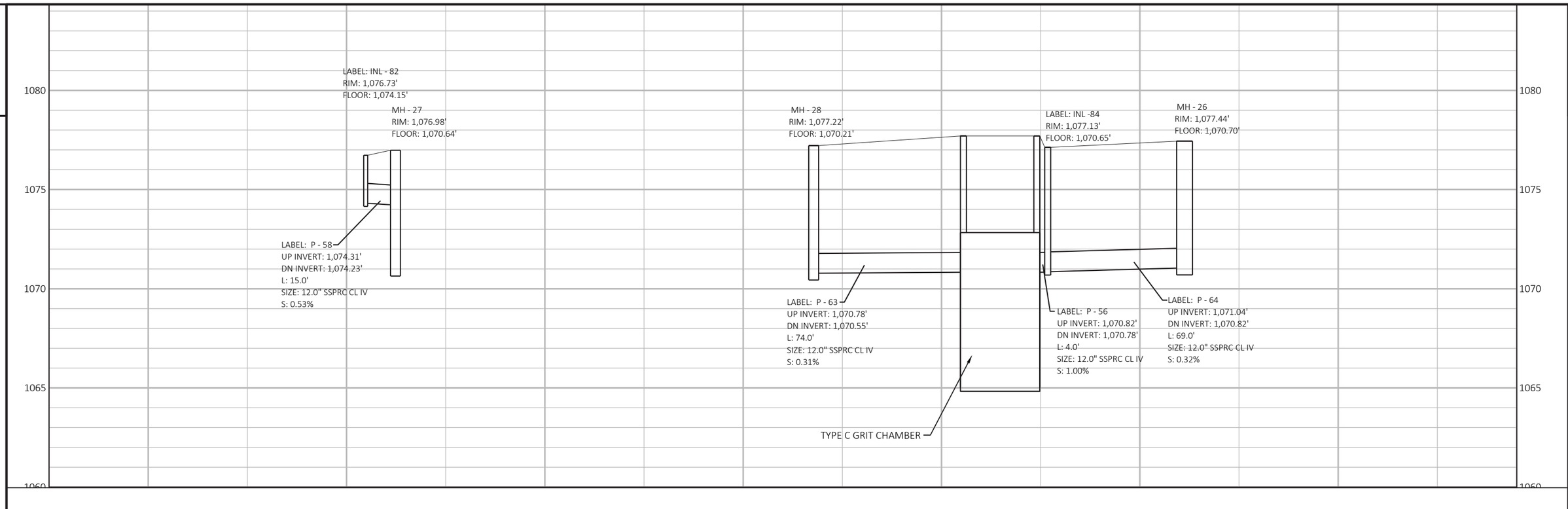
FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\022501 SS.DWG
LAYOUT NAME - 07
PLOT DATE : 10/23/2020 7:33 AM
PLOT BY : ANNIE M. JEROME
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 41



BENCHMARK TABLE			
NO	STATION	DESCRIPTION	ELEV
23	208+61.0, 88.1' RT	WESTERLY EDGE OF CARPETED CONC PORCH HSE #1250 POST RD	1083.18



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	STORM SEWER	SHEET 52	E

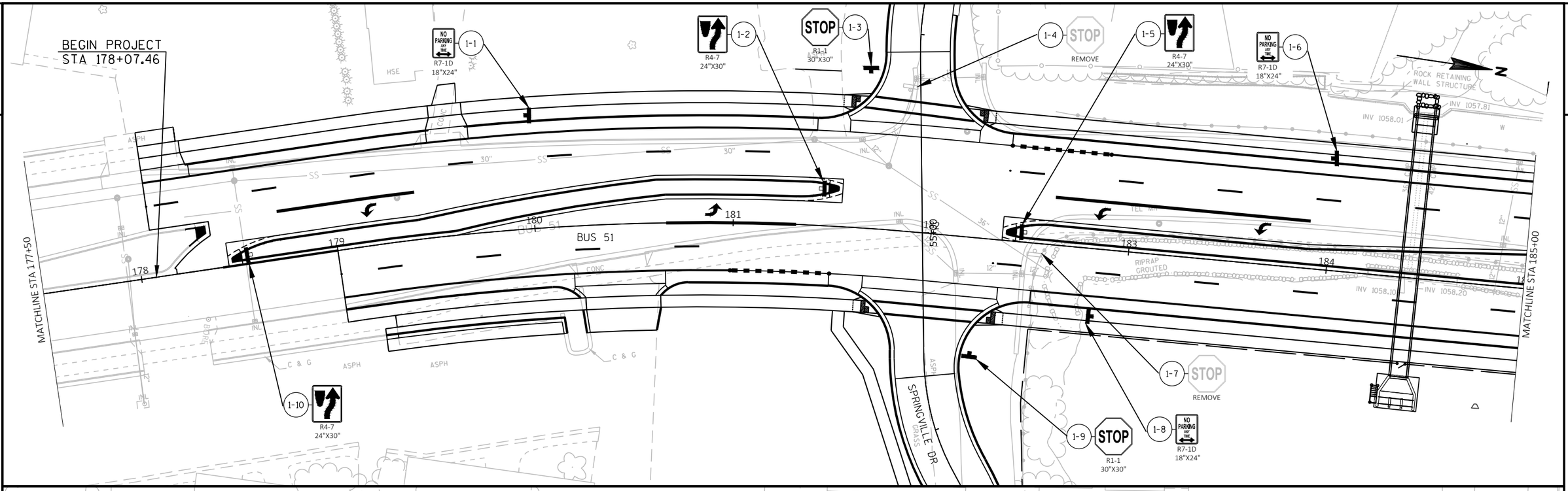


2

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	STORM SEWER	SHEET 53	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\022501 SS.DWG
LAYOUT NAME - 08a
PLOT DATE : 10/23/2020 7:34 AM
PLOT BY : ANNIE M. JEROME
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 41

2



GENERAL PERMANENT SIGNING NOTES

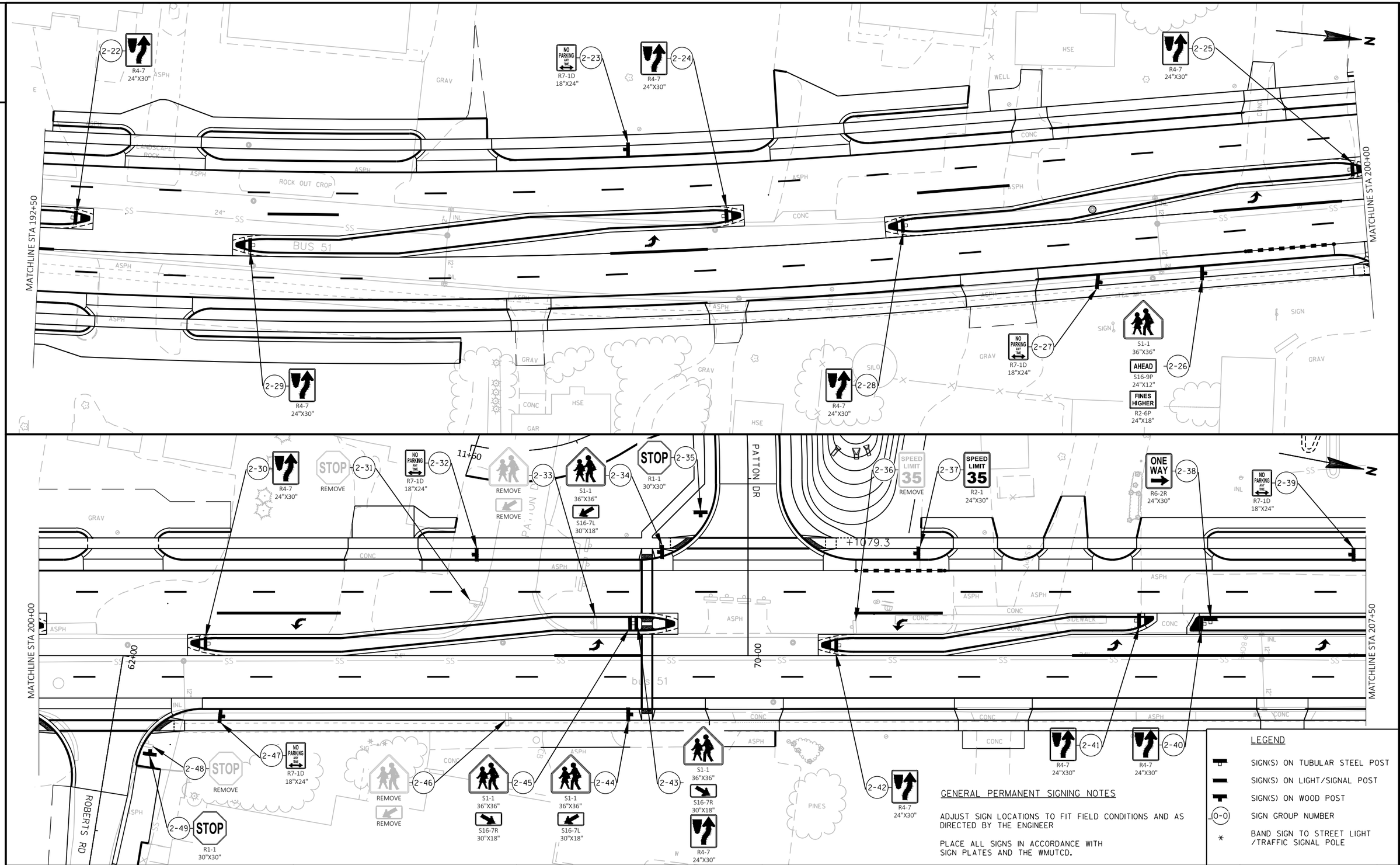
ADJUST SIGN LOCATIONS TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER

PLACE ALL SIGNS IN ACCORDANCE WITH SIGN PLATES AND THE WMUTCD.

LEGEND

- SIGN(S) ON TUBULAR STEEL POST
- SIGN(S) ON LIGHT/SIGNAL POST
- SIGN(S) ON WOOD POST
- (0-0) SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT /TRAFFIC SIGNAL POLE

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PERMANENT SIGNING	SHEET 54	E



GENERAL PERMANENT SIGNING NOTES

ADJUST SIGN LOCATIONS TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER

PLACE ALL SIGNS IN ACCORDANCE WITH SIGN PLATES AND THE WMUTCD.

LEGEND

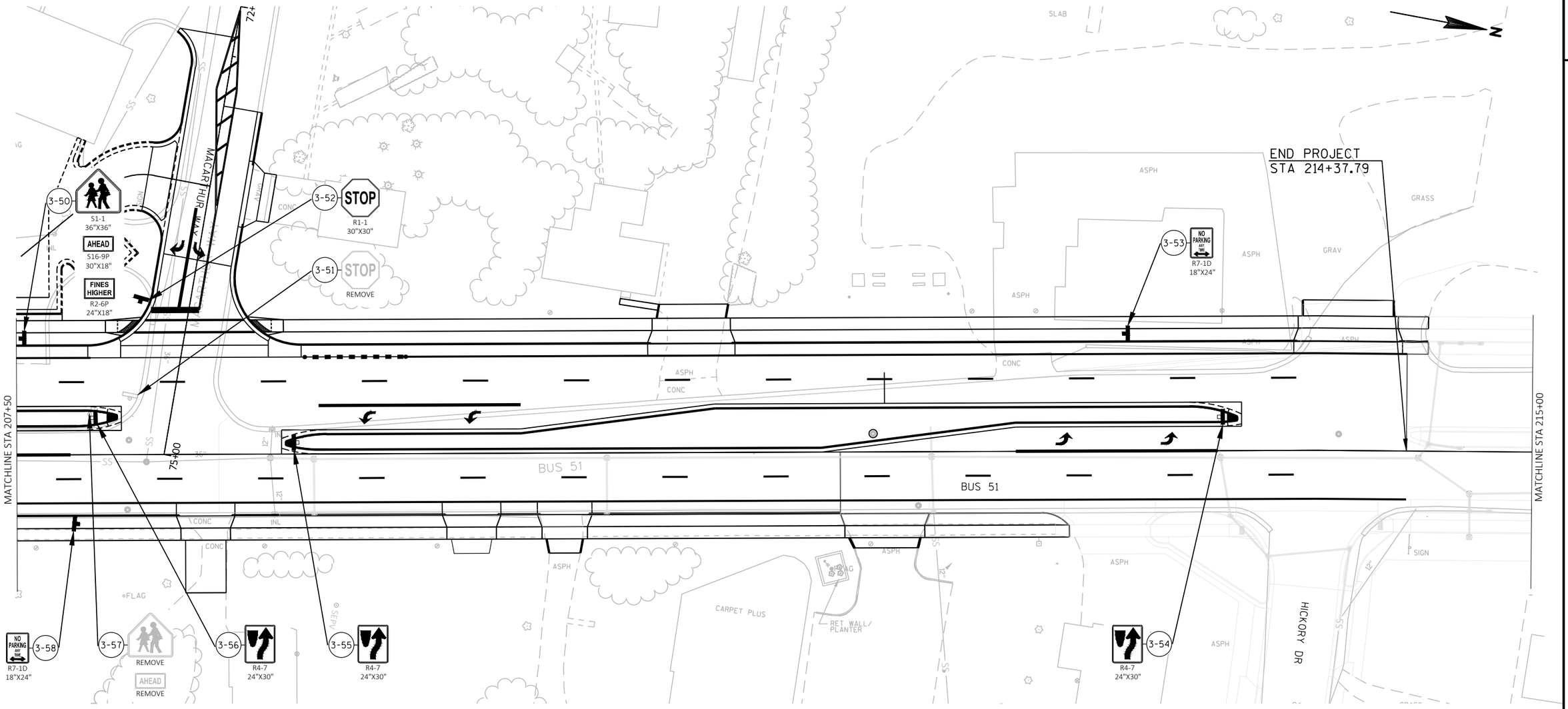
- SIGN(S) ON TUBULAR STEEL POST
- SIGN(S) ON LIGHT/SIGNAL POST
- SIGN(S) ON WOOD POST
- (0-0) SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT /TRAFFIC SIGNAL POLE

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PERMANENT SIGNING	SHEET 55	E

FILE NAME : P:\SEHIN\14001 - BUS 51_SPRNGVL RD-TMY'S TRNPKE (-09)\CAD\MARKING AND SIGNING\SNBUSS1.DWG
LAYOUT NAME - SNBUS51 (2)

PLOT DATE : 10/19/2020 1:19 PM PLOT BY : PLOT NAME : PLOT SCALE : ##########

2



GENERAL PERMANENT SIGNING NOTES

ADJUST SIGN LOCATIONS TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER

PLACE ALL SIGNS IN ACCORDANCE WITH SIGN PLATES AND THE WMUTCD

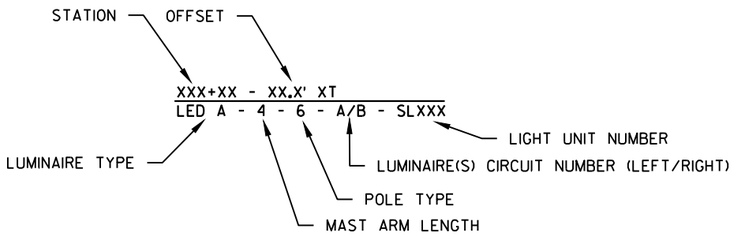
LEGEND

- SIGN(S) ON TUBULAR STEEL POST
- SIGN(S) ON LIGHT/SIGNAL POST
- SIGN(S) ON WOOD POST
- (0-0) SIGN GROUP NUMBER
- * BAND SIGN TO STREET LIGHT /TRAFFIC SIGNAL POLE

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PERMANENT SIGNING	SHEET 56	E

2

LIGHTING PLAN LEGEND



LIGHTING UNIT

EXISTING LIGHTING UNIT FROM PREVIOUS PROJECT

LIGHTING CONTROL CABINET

PULL BOX NON-CONDUCTIVE (24"X42")

CONDUIT RIGID NONMETALLIC SCHEDULE 40

GENERAL STREET LIGHTING NOTES:

1. THE ENGINEER SHALL APPROVE THE FINAL LOCATION FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION.

2. PITCH ALL CONDUITS TOWARD PULLBOXES. INSTALL A 2" DRAIN DUCT TO DITCH OR STORM SEWER AS REQUIRED FOR DRAINAGE. THIS 2" DRAIN DUCT IS INCIDENTAL TO THE PULL BOX BID ITEM. DRAIN DUCT IS NOT SHOWN.

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

4. CHECK FOR OVERHEAD UTILITY CONFLICTS PRIOR TO CONSTRUCTING CONCRETE BASES.

5. REFER TO STREETSCAPE DETAILS FOR ADDITIONAL INFORMATION FOR LOCATING BASES IN PAVED TERRACE AREAS.

6. STUB OUT CONDUIT FOR FUTURE USE IN STREET LIGHT BASES WHERE CIRCUIT RUNS END.

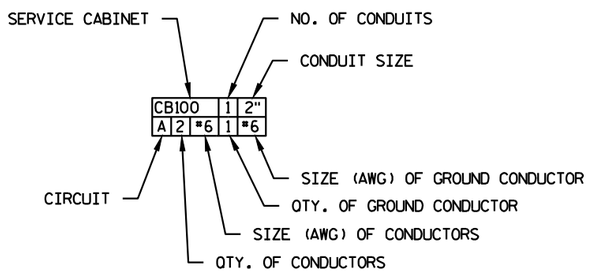
7. UTILITY OWNED STREET LIGHTS ARE NOT SHOWN ON THIS PLAN AND ARE TO BE REMOVED BY OTHERS.

STREET LIGHTING PLANS PREPARED BY

(DATE) (SIGNATURE)

2

CONDUIT/CONDUCTOR LEGEND



PWO = PULL WIRE ONLY

EXISTING CB 200
PLOVER SPRINGS DR.

G - BLUE H - BROWN
240V PHASE TO PHASE

EXISTING CB 300
TOMMY'S TURNPIKE

A - BLACK B - RED
240V PHASE TO PHASE

SHEET 1 OF 6

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	LIGHTING PLANS	SHEET 57	E

FILE NAME : G:\SEH\10026-001_002\DWG\PLAN SHEETS\023601_LP_79.DWG PLOT DATE : 6/26/2019 PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2

EXCB200			EX	
G	2	#6	1	#6
H	2	#6	-	-

180+83 - 18.0' LT
LED A(2) - 4(2) - 6 - G/H - SL216

179+06 - 6.0' LT
LED A(2) - 4(2) - 6 - H/G - SL215

184+33 - 7.4' LT
LED A(2) - 4(2) - 6 - G/H - SL218

182+60 - 5.7' LT
LED A(2) - 4(2) - 6 - H/G - SL217

LIGHTING INSTALLED WITH
PROJECT ID 6414-00-79

R/W (TYP)

BUS 51 / POST RD

SPRINGVILLE DR

53+00

54+00

55+00

56+00

57+00

178+00

179+00

180+00

181+00

182+00

183+00

184+00

185+00

MATCH LINE STA. 185+00

CONNECT TO EXISTING
STUBBED CONDUIT

LIGHTING INSTALLED WITH
PROJECT ID 6414-00-78

A =

EXCB200			1	2"
G	2	#6	1	#6
H	2	#6	-	-

NOTES:

1. SL-1 HAS BEEN IDENTIFIED AS BEING IN CLOSE PROXIMITY TO THE PROPOSED FIBER DUCT PACKAGE. CONTRACTOR SHALL COORDINATE WITH FIBER DUCT TO HAVE THE UTILITY VAC THIS HOLE FOR THE CONCRETE BASE INSTALLATION IS NECESSARY.

SHEET 2 OF 6

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	LIGHTING PLANS	SHEET 58	E

2

N

OLD SWIMMING POOL

BUS 51

BUS 51 / POST RD

R/W (TYP)

FLAG POLE

SIGN

RAINBOW DR

MATCH LINE STA. 185+00

MATCH LINE STA. 192+50

185+00 186+00 187+00 188+00 189+00 190+00 191+00 192+00

187+84 - 15.6' LT
LED A(2) - 4(2) - 6 - G/H - SL220

186+15 - 12.0' LT
LED A(2) - 6 - H/G - SL219

189+58 - 18.0' LT
LED A(2) - 6 - H/G - SL221

191+24 - 6.5' LT
LED A(2) - 4(2) - 6 - G/H - SL222

A =

EXCB200	1	2"		
G	2	#6	1	#6
H	2	#6	-	-

SHEET 3 OF 6

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	LIGHTING PLANS	SHEET 59	E

2

2

N

RIPRAP

WOOD FENCE

HSE

R/W (TYP)

MATCH LINE STA. 192+50

MATCH LINE STA. 200+00

193+00

194+00

195+00

196+00

197+00

198+00

199+00

200

A

B

PWO
1-2"

BUS 51 / POST RD

CONDUIT

INL

MH

SIGN

SILO

GAR

POOL

192+64 - 18.1' LT
LED A(2) - 4(2) - 6 - H/G - SL223

194+40 - 7.2' LT
LED A(2) - 4(2) - 6 - G/H - SL224

196+15 - 18.0' LT
LED A(2) - 4(2) - 6 - H/G - SL225

197+79 - 6.0' LT
LED A(2) - 4(2) - 6 - G/H - SL226

199+49 - 18.0' LT
LED A(2) - 4(2) - 6 - B/A - SL300

A =

EXCB200	1	2"
G	2	#6
H	2	#6

1	2"
1	#6
-	-

B =

EXCB300	1	2"
A	2	#6
B	2	#6

1	2"
1	#6
-	-

SHEET 4 OF 6

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	LIGHTING PLANS	SHEET 60	E

FILE NAME : G:\SEH\10026-001_002\DWG\PLAN SHEETS\023601_LP_79.DWG PLOT DATE : 6/26/2019 PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2

2

B =	EXCB300	1	2"
	A 2 #6	1	#6
	B 2 #6	-	-

PATTON DR

68+00

69+00

63+00

ROBERTS RD

R/W (TYP)

MATCH LINE STA. 200+00

MATCH LINE STA. 207+50

200+00

201+00

202+00

203+00

204+00

205+00

206+00

207+00

BUS 51 / POST RD

202+89 - 17.8' LT
LED A(2) - 4(2) - 6 - B/A - SL 302

201+18 - 6.0' LT
LED A(2) - 4(2) - 6 - A/B - SL301

204+58 - 6.0' LT
LED A(2) - 4(2) - 6 - A/B - SL303

206+13 - 18.0' LT
LED A(2) - 4(2) - 6 - B/A - SL304

SHEET 5 OF 6

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	LIGHTING PLANS	SHEET 61	E

FILE NAME : G:\SEH\10026-001_002\DWG\PLAN SHEETS\023601_LP_79.DWG PLOT DATE : 6/26/2019 PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2

2

MACARTHUR WAY

73+00

74+00

MACARTHUR WAY

FLAG

INL

SIGN

N

W

SLAB

212+93 - 18.0' LT
LED A(2) - 4(2) - 6 - B/A - SL308

211+21 - 12.0' LT
LED A(2) - 4(2) - 6 - A/B - SL307

209+51 - 6.0' LT
LED A(2) - 4(2) - 6 - B/A - SL306

LIGHTING INSTALLED WITH
PROJECT ID 6414-00-80

CONNECT TO
EXISTING PULL BOX

R/W (TYP)

EXPB300

B

B

B

B

MATCH LINE STA. 207+50

208+00

209+00

210+00

211+00

212+00

213+00

214+00

215+00

MH

BUS 51

BUS 51 / POST RD

B

CONDUIT

INL

TEL PED

FLAG

SIGN

CARPET PLUS

SLAB

207+83 - 18.0' LT
LED A(2) - 4(2) - 6 - A/B - SL305

EXSL309

LIGHTING INSTALLED WITH
PROJECT ID 6414-00-79

EXCB300		EX	
A	2 *6	1	*6
B	2 *6	-	-

81+00

82+00

HICKORY DR

FLAG

B =

EXCB300		1	2"
A	2 *6	1	*6
B	2 *6	-	-

SHEET 6 OF 6

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	LIGHTING PLANS	SHEET 62	E

FILE NAME : G:\SEH\10026-001_002\DWG\PLAN SHEETS\023601_LP_79.DWG PLOT DATE : 6/26/2019 PLOT BY : KL ENGINEERING PLOT NAME : PLOT SCALE :

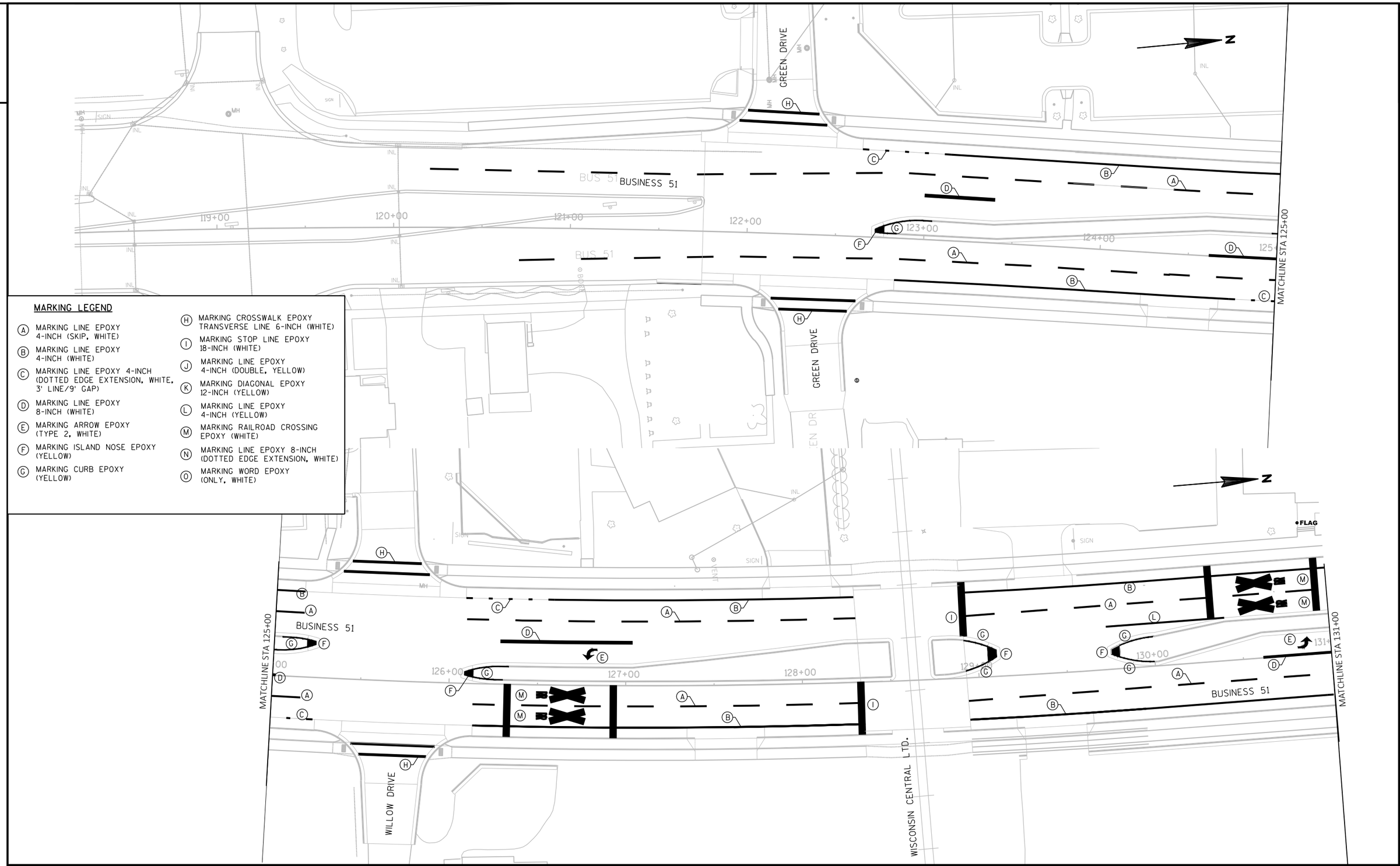
WISDOT/CADDS SHEET 42

2

2

MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (SKIP, WHITE)
- (B) MARKING LINE EPOXY 4-INCH (WHITE)
- (C) MARKING LINE EPOXY 4-INCH (DOTTED EDGE EXTENSION, WHITE, 3' LINE/9' GAP)
- (D) MARKING LINE EPOXY 8-INCH (WHITE)
- (E) MARKING ARROW EPOXY (TYPE 2, WHITE)
- (F) MARKING ISLAND NOSE EPOXY (YELLOW)
- (G) MARKING CURB EPOXY (YELLOW)
- (H) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (I) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (J) MARKING LINE EPOXY 4-INCH (DOUBLE, YELLOW)
- (K) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (L) MARKING LINE EPOXY 4-INCH (YELLOW)
- (M) MARKING RAILROAD CROSSING EPOXY (WHITE)
- (N) MARKING LINE EPOXY 8-INCH (DOTTED EDGE EXTENSION, WHITE)
- (O) MARKING WORD EPOXY (ONLY, WHITE)

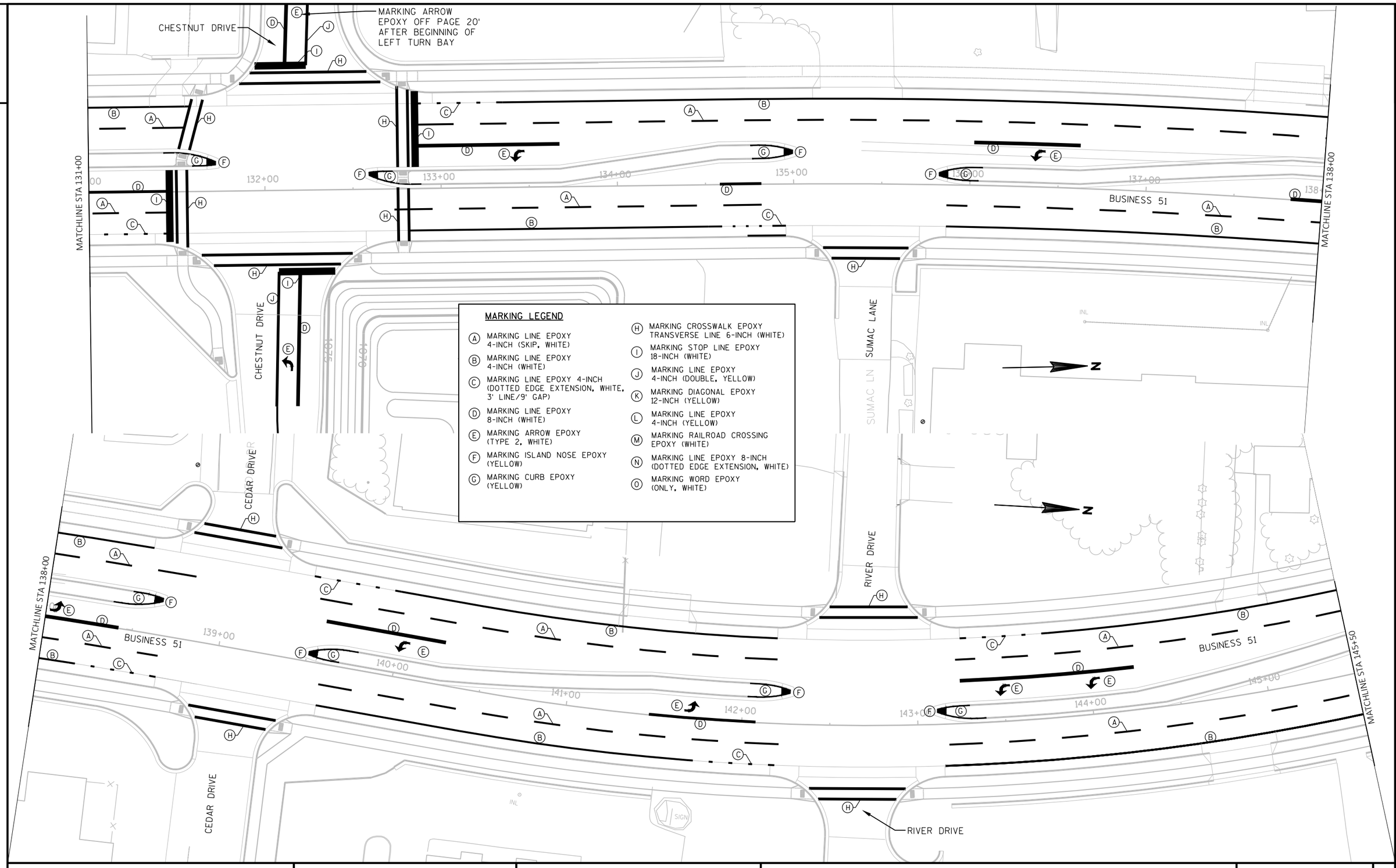


PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PAVEMENT MARKING	SHEET 63	E

FILE NAME : P:\SEHIN\14001 - BUS 51_SPRNGVL RD-TMY'S TRNPKE (-09)\CAD\MARKING AND SIGNING\PHASE1_PMBUS51.DWG
LAYOUT NAME - PMBUS51 (1)

PLOT DATE : 10/19/2020 1:33 PM PLOT BY : PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44



MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (SKIP, WHITE)
- (B) MARKING LINE EPOXY 4-INCH (WHITE)
- (C) MARKING LINE EPOXY 4-INCH (DOTTED EDGE EXTENSION, WHITE, 3' LINE/9' GAP)
- (D) MARKING LINE EPOXY 8-INCH (WHITE)
- (E) MARKING ARROW EPOXY (TYPE 2, WHITE)
- (F) MARKING ISLAND NOSE EPOXY (YELLOW)
- (G) MARKING CURB EPOXY (YELLOW)
- (H) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (I) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (J) MARKING LINE EPOXY 4-INCH (DOUBLE, YELLOW)
- (K) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (L) MARKING LINE EPOXY 4-INCH (YELLOW)
- (M) MARKING RAILROAD CROSSING EPOXY (WHITE)
- (N) MARKING LINE EPOXY 8-INCH (DOTTED EDGE EXTENSION, WHITE)
- (O) MARKING WORD EPOXY (ONLY, WHITE)

2

2

BUSINESS 51

MATCHLINE STA 145+50

146+00

147+00

148+00

149+00

150+00

151+00

152+00

153

MATCHLINE STA 153+00

BUSINESS 51

MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (SKIP, WHITE)
- (B) MARKING LINE EPOXY 4-INCH (WHITE)
- (C) MARKING LINE EPOXY 4-INCH (DOTTED EDGE EXTENSION, WHITE, 3' LINE/9' GAP)
- (D) MARKING LINE EPOXY 8-INCH (WHITE)
- (E) MARKING ARROW EPOXY (TYPE 2, WHITE)
- (F) MARKING ISLAND NOSE EPOXY (YELLOW)
- (G) MARKING CURB EPOXY (YELLOW)
- (H) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (I) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (J) MARKING LINE EPOXY 4-INCH (DOUBLE, YELLOW)
- (K) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (L) MARKING LINE EPOXY 4-INCH (YELLOW)
- (M) MARKING RAILROAD CROSSING EPOXY (WHITE)
- (N) MARKING LINE EPOXY 8-INCH (DOTTED EDGE EXTENSION, WHITE)
- (O) MARKING WORD EPOXY (ONLY, WHITE)

SCHOOL DRIVE

GILMAN DRIVE

BUSINESS 51

MATCHLINE STA 153+00

154+00

155+00

156+00

157+00

158+00

159+00

160+00

MATCHLINE STA 160+50

BUSINESS 51

ROOSEVELT DRIVE

ONLY

OUT

MARKING ARROW EPOXY OFF PAGE 20' AFTER BEGINNING OF TURN LANES

FLAG

SIGN

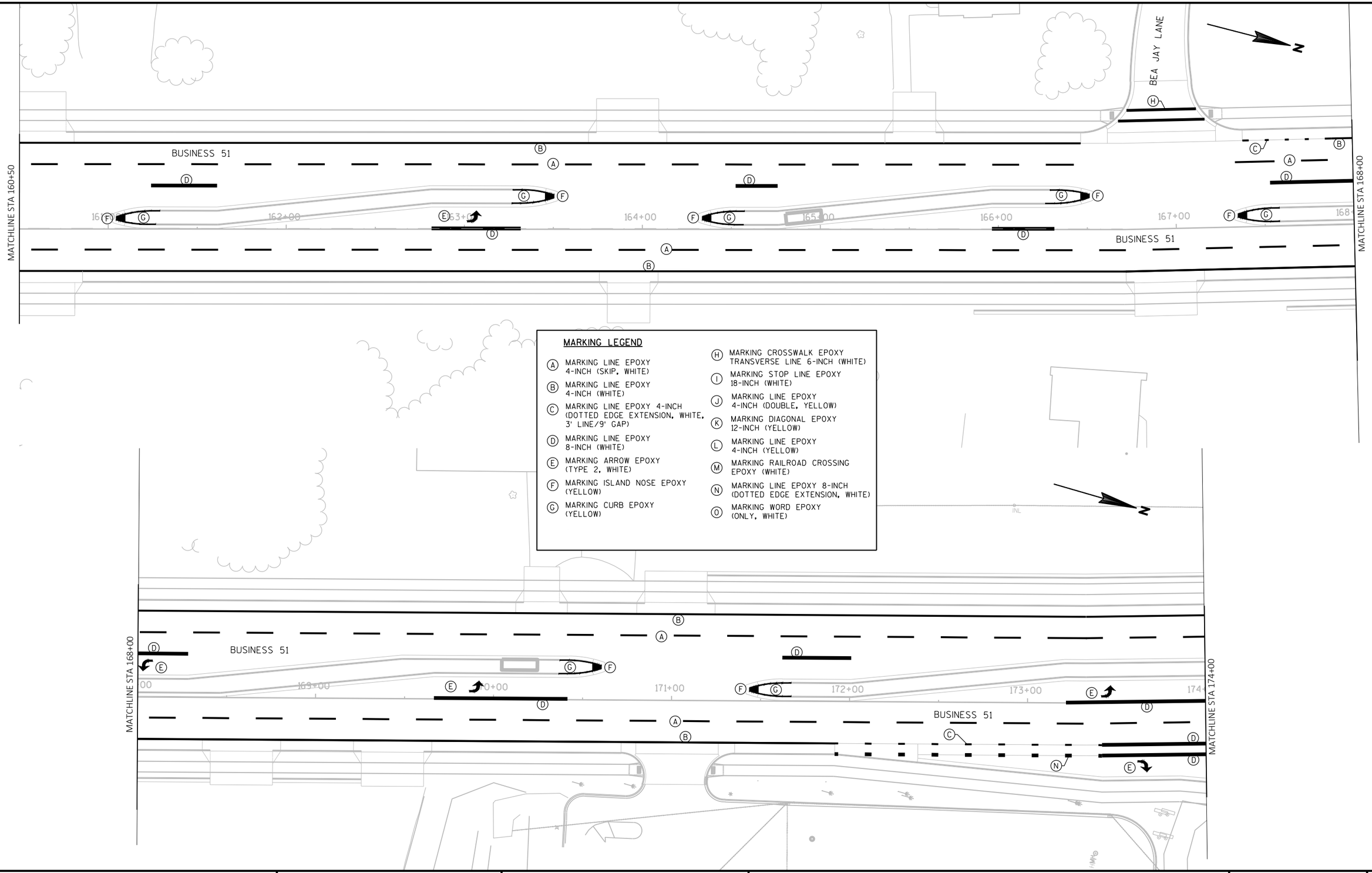
INL

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PAVEMENT MARKING	SHEET 65	E

FILE NAME : P:\SEHIN\14001 - BUS 51_SPRNGVL RD-TMY'S TRNPKE (-09)\CAD\MARKING AND SIGNING\PHASE1_PMBUS51.DWG
LAYOUT NAME - PMBUS51 (3)

PLOT DATE : 10/19/2020 2:38 PM PLOT BY : PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 44

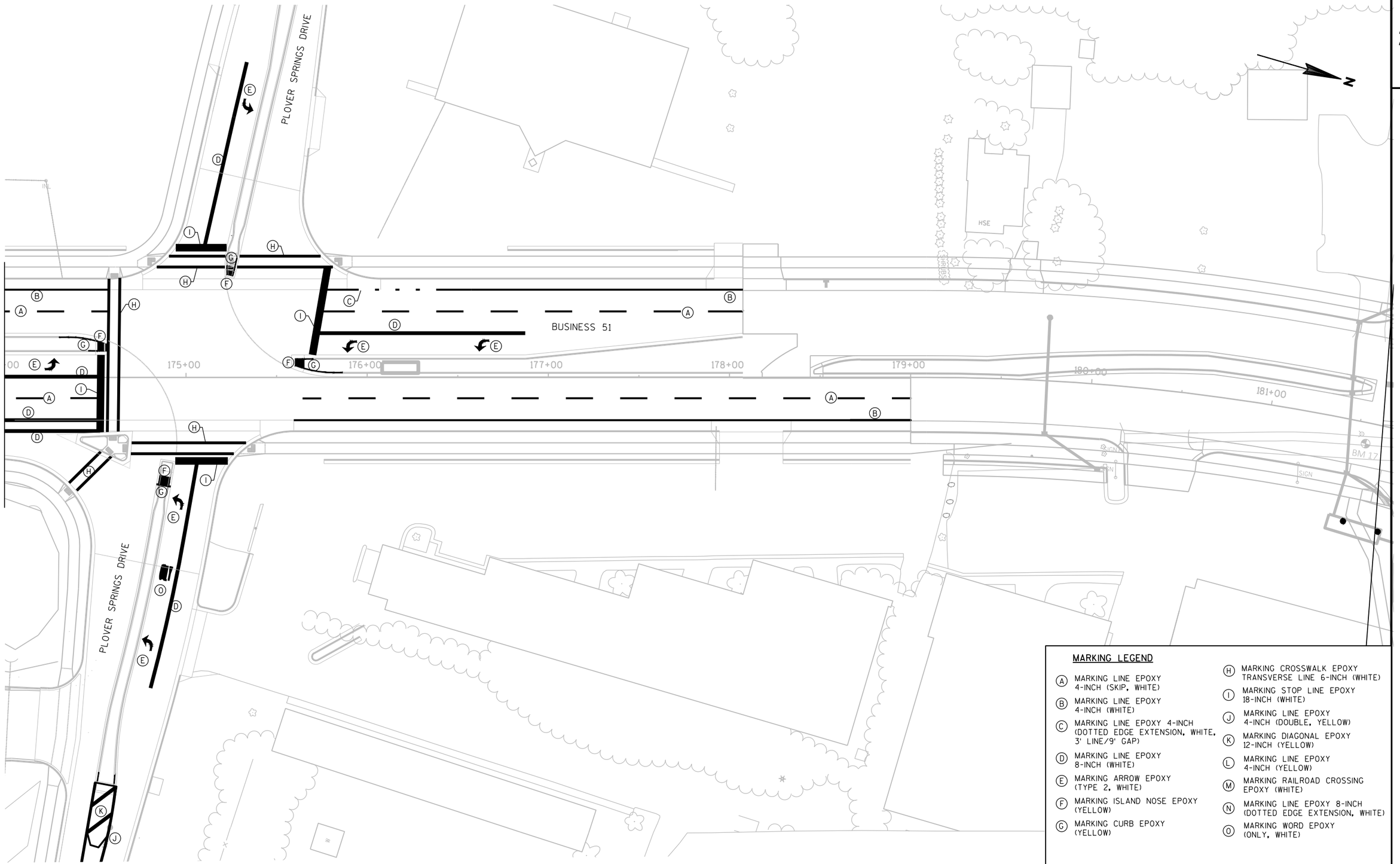


MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (SKIP, WHITE)
- (B) MARKING LINE EPOXY 4-INCH (WHITE)
- (C) MARKING LINE EPOXY 4-INCH (DOTTED EDGE EXTENSION, WHITE, 3' LINE/9' GAP)
- (D) MARKING LINE EPOXY 8-INCH (WHITE)
- (E) MARKING ARROW EPOXY (TYPE 2, WHITE)
- (F) MARKING ISLAND NOSE EPOXY (YELLOW)
- (G) MARKING CURB EPOXY (YELLOW)
- (H) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (I) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (J) MARKING LINE EPOXY 4-INCH (DOUBLE, YELLOW)
- (K) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (L) MARKING LINE EPOXY 4-INCH (YELLOW)
- (M) MARKING RAILROAD CROSSING EPOXY (WHITE)
- (N) MARKING LINE EPOXY 8-INCH (DOTTED EDGE EXTENSION, WHITE)
- (O) MARKING WORD EPOXY (ONLY, WHITE)

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PAVEMENT MARKING	SHEET 66	E

2



MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (SKIP, WHITE)
- (B) MARKING LINE EPOXY 4-INCH (WHITE)
- (C) MARKING LINE EPOXY 4-INCH (DOTTED EDGE EXTENSION, WHITE, 3' LINE/9' GAP)
- (D) MARKING LINE EPOXY 8-INCH (WHITE)
- (E) MARKING ARROW EPOXY (TYPE 2, WHITE)
- (F) MARKING ISLAND NOSE EPOXY (YELLOW)
- (G) MARKING CURB EPOXY (YELLOW)
- (H) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (I) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (J) MARKING LINE EPOXY 4-INCH (DOUBLE, YELLOW)
- (K) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (L) MARKING LINE EPOXY 4-INCH (YELLOW)
- (M) MARKING RAILROAD CROSSING EPOXY (WHITE)
- (N) MARKING LINE EPOXY 8-INCH (DOTTED EDGE EXTENSION, WHITE)
- (O) MARKING WORD EPOXY (ONLY, WHITE)

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PAVEMENT MARKING	SHEET 67	E

FILE NAME : P:\SEHIN\14001 - BUS 51_SPRNGVL RD-TMY'S TRNPKE (-09)\CAD\MARKING AND SIGNING\PHASE1_PMBUS51.DWG
LAYOUT NAME - PMBUS51 (5)

PLOT DATE : 10/19/2020 2:40 PM PLOT BY : PLOT NAME : PLOT SCALE : ##########

2

BEGIN PROJECT
STA 178+07.46

MATCHLINE STA 177+50

MATCHLINE STA 185+00

MATCHLINE STA 185+00

MATCHLINE STA 192+50

BUSINESS 51

BUS 51

SPRINGVILLE DRIVE

RAINBOW DRIVE

RIPRAP GROUTED

FLAG POLE

SIGN

MARKING LEGEND

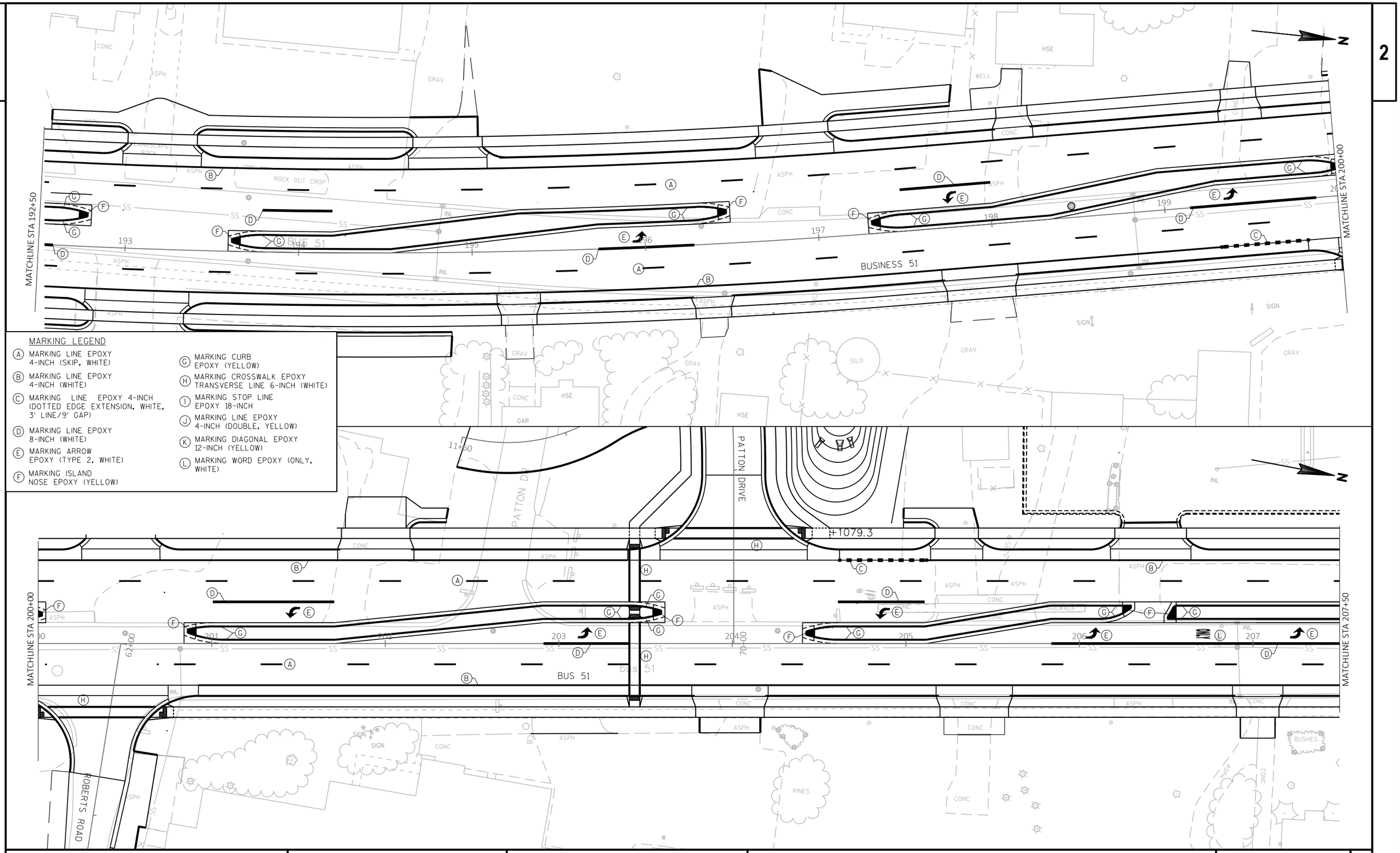
- (A) MARKING LINE EPOXY 4-INCH (SKIP, WHITE)
- (B) MARKING LINE EPOXY 4-INCH (WHITE)
- (C) MARKING LINE EPOXY 4-INCH (DOTTED EDGE EXTENSION, WHITE, 3' LINE/9' GAP)
- (D) MARKING LINE EPOXY 8-INCH (WHITE)
- (E) MARKING ARROW EPOXY (TYPE 2, WHITE)
- (F) MARKING ISLAND NOSE EPOXY (YELLOW)
- (G) MARKING CURB EPOXY (YELLOW)
- (H) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (I) MARKING STOP LINE EPOXY 18-INCH
- (J) MARKING LINE EPOXY 4-INCH (DOUBLE, YELLOW)
- (K) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (L) MARKING WORD EPOXY (ONLY, WHITE)

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PAVEMENT MARKING	SHEET 68	E

FILE NAME : P:\SEHIN\14001 - BUS 51_SPRNGVL RD-TMY'S TRNPKE (-09)\CAD\MARKING AND SIGNING\PMBUS51.DWG
LAYOUT NAME - PMBUS51 (1)

PLOT DATE : 10/23/2020 11:51 AM PLOT BY : PLOT NAME : PLOT SCALE : ##########

2



MARKING LEGEND

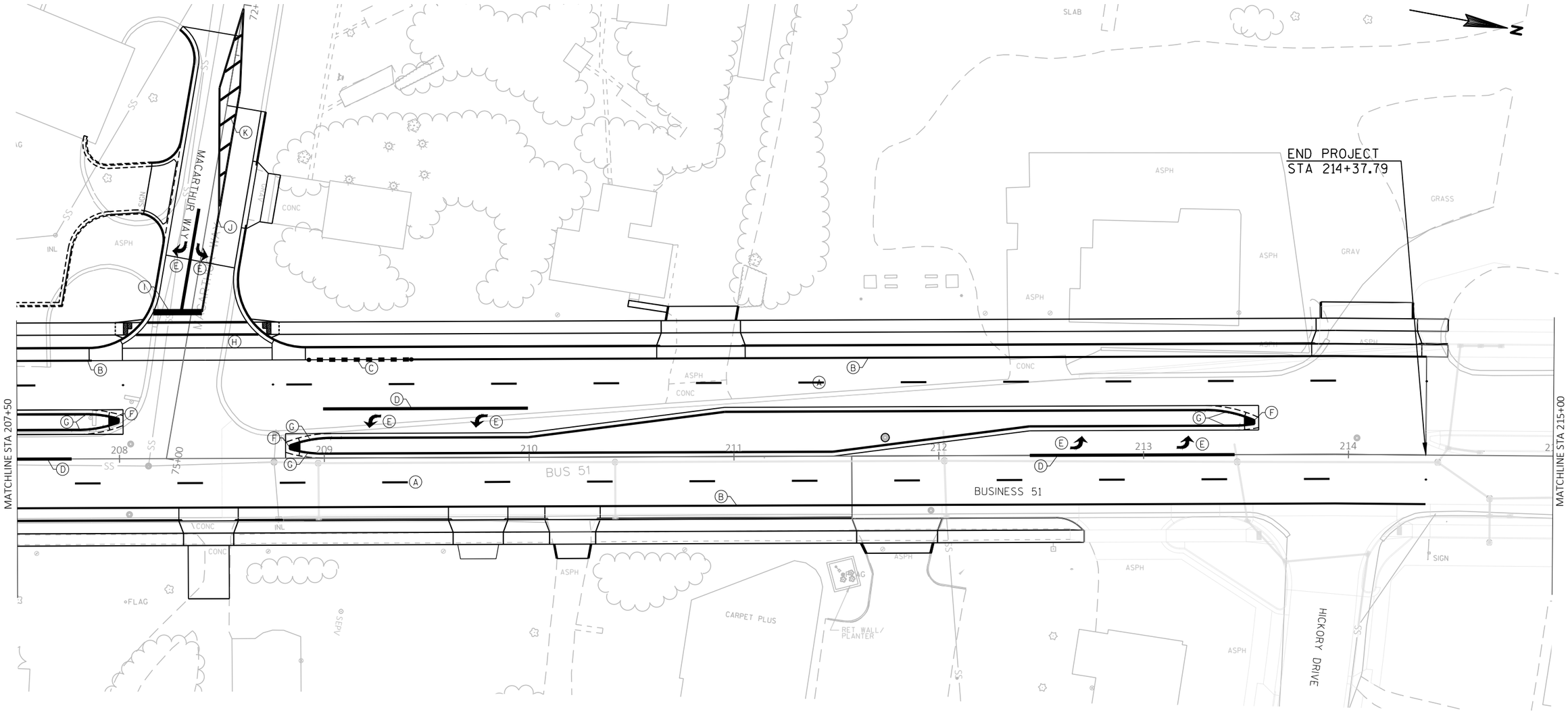
- (A) MARKING LINE EPOXY 4-INCH (SKIP, WHITE)
- (B) MARKING LINE EPOXY 4-INCH (WHITE)
- (C) MARKING LINE EPOXY 4-INCH (DOTTED EDGE EXTENSION, WHITE, 3' LINE/9' GAP)
- (D) MARKING LINE EPOXY 8-INCH (WHITE)
- (E) MARKING ARROW EPOXY (TYPE 2, WHITE)
- (F) MARKING ISLAND NOSE EPOXY (YELLOW)
- (G) MARKING CURB EPOXY (YELLOW)
- (H) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (I) MARKING STOP LINE EPOXY 18-INCH
- (J) MARKING LINE EPOXY 4-INCH (DOUBLE, YELLOW)
- (K) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (L) MARKING WORD EPOXY (ONLY, WHITE)

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PAVEMENT MARKING	SHEET	E

FILE NAME : P:\SEHIN\14001 - BUS 51_SPRNGVL RD-TMY'S TRNPKE (-09)\CAD\MARKING AND SIGNING\PMBUS51.DWG
LAYOUT NAME - PMBUS51 (2)

PLOT DATE : 10/23/2020 11:52 AM PLOT BY : PLOT NAME : PLOT SCALE : ##########

2

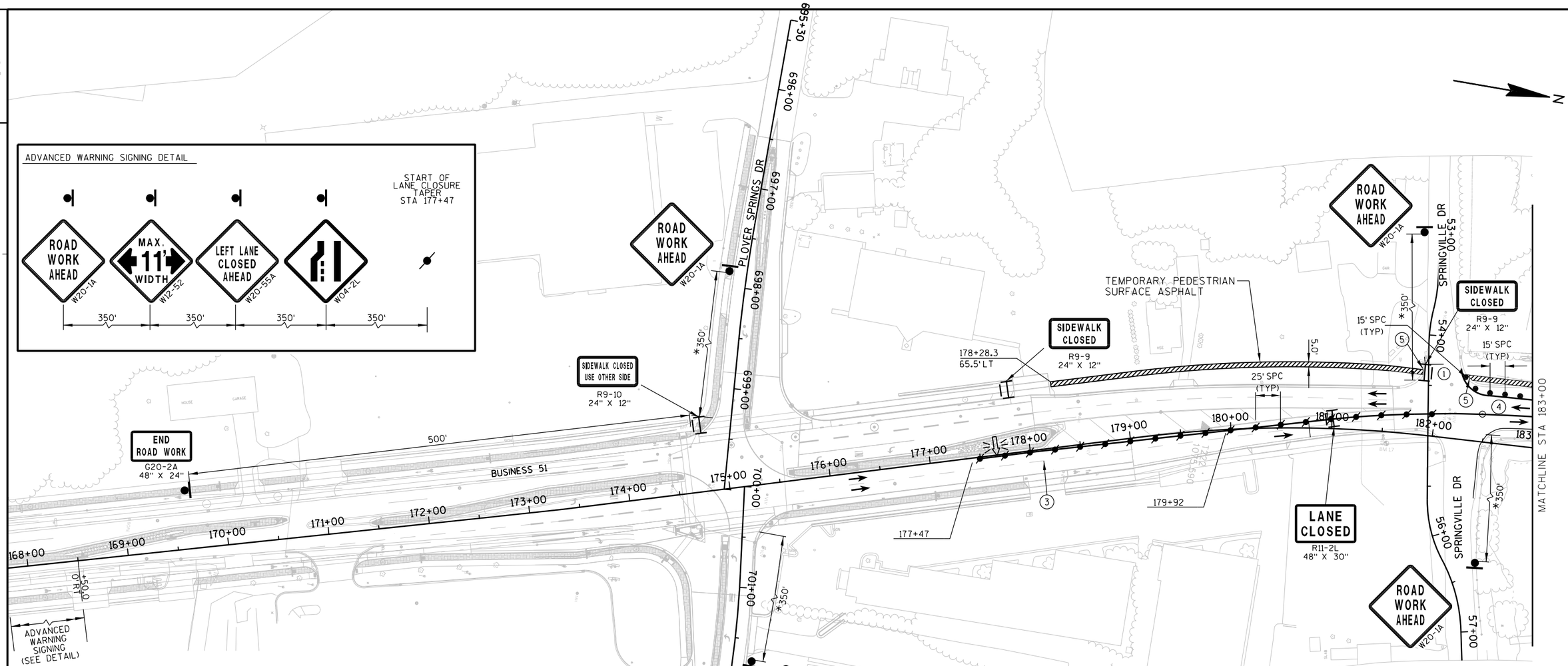


MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (SKIP, WHITE)
- (B) MARKING LINE EPOXY 4-INCH (WHITE)
- (C) MARKING LINE EPOXY 4-INCH (DOTTED EDGE EXTENSION, WHITE, 3' LINE/9' GAP)
- (D) MARKING LINE EPOXY 8-INCH (WHITE)
- (E) MARKING ARROW EPOXY (TYPE 2, WHITE)
- (F) MARKING ISLAND NOSE EPOXY (YELLOW)
- (G) MARKING CURB EPOXY (YELLOW)
- (H) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (I) MARKING STOP LINE EPOXY 18-INCH
- (J) MARKING LINE EPOXY 4-INCH (DOUBLE, YELLOW)
- (K) MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (L) MARKING WORD EPOXY (ONLY, WHITE)

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PAVEMENT MARKING	SHEET 70	E

2



* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

GENERAL TRAFFIC CONTROL NOTES:

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE A.

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

UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION.

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

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS OR PAVEMENT MARKING, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE CONSTRUCTION TRAFFIC PATTERN SHALL BE REMOVED OR COVERED.

STAGE 1 DESCRIPTION:

TRAFFIC ON BUSINESS 51 SHALL BE REDUCED TO ONE LANE IN EACH DIRECTION BETWEEN SPRINGVILLE AND RAINBOW DRIVE.

THE PURPOSE OF STAGE 1 IS TO INSTALL PERMANENT AND/OR TEMPORARY SIDEWALK ALONG THE WEST SIDE OF BUSINESS 51.

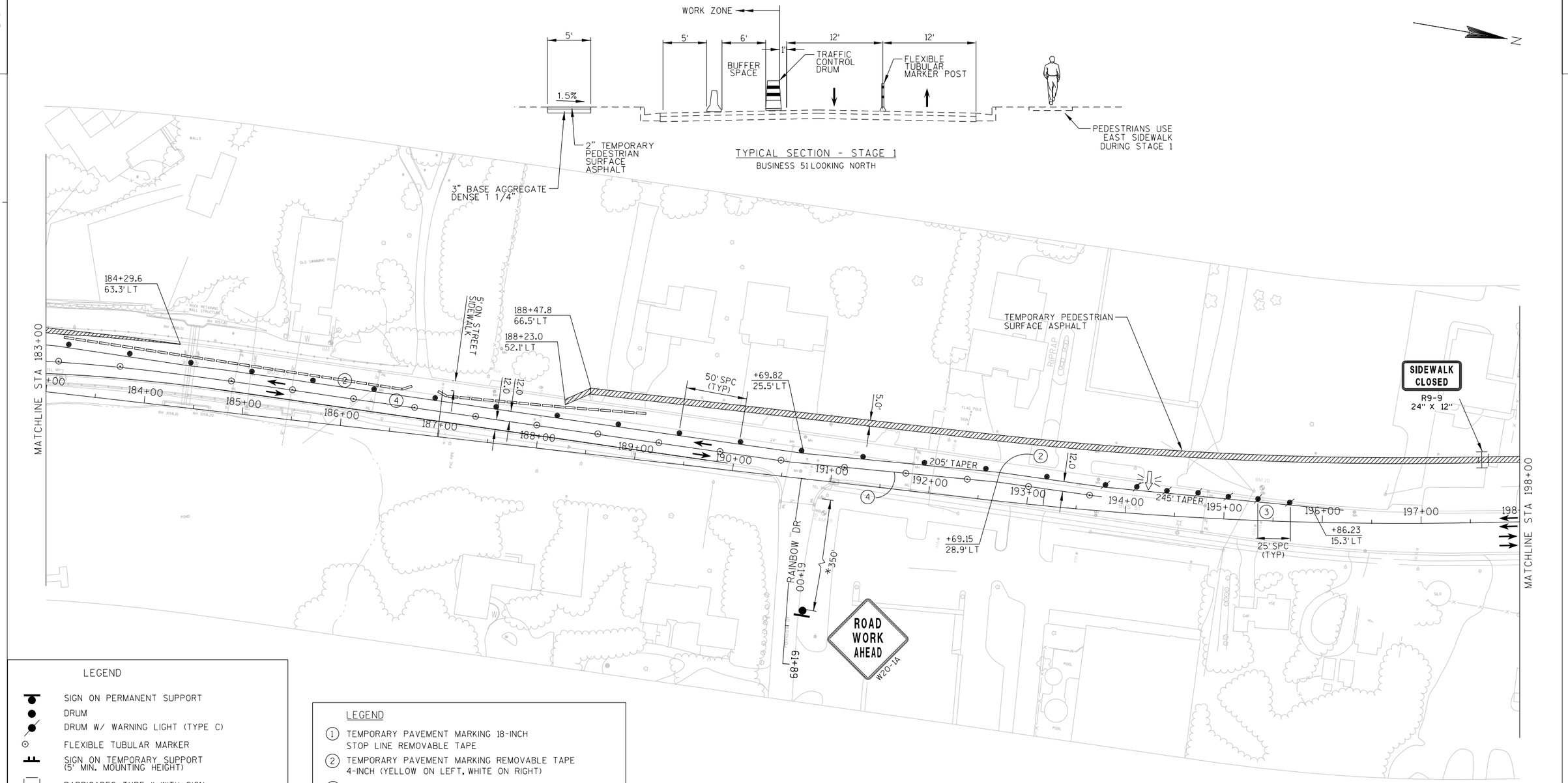
TEMPORARY PEDESTRIAN SURFACE ASPHALT IS IN THE SAME HORIZONTAL LOCATION AS THE FINISHED SIDEWALK. SEE CROSS SECTIONS FOR LOCATION DETAILS. UTILIZE EXISTING PAVED/CONCRETE SURFACES AT DRIVEWAYS AND PARKING LOTS. FOLLOW EXISTING GROUND TO MAINTAIN AND PROVIDE DRAINAGE.

LEGEND

1. TEMPORARY PAVEMENT MARKING 18-INCH STOP LINE REMOVABLE TAPE
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW ON LEFT, WHITE ON RIGHT)
3. REMOVING PAVEMENT MARKING
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW. SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRIAN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 1	SHEET 71	E

2



LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

LEGEND

1. TEMPORARY PAVEMENT MARKING 18-INCH STOP LINE REMOVABLE TAPE
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW ON LEFT, WHITE ON RIGHT)
3. REMOVING PAVEMENT MARKING
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW. SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRIAN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

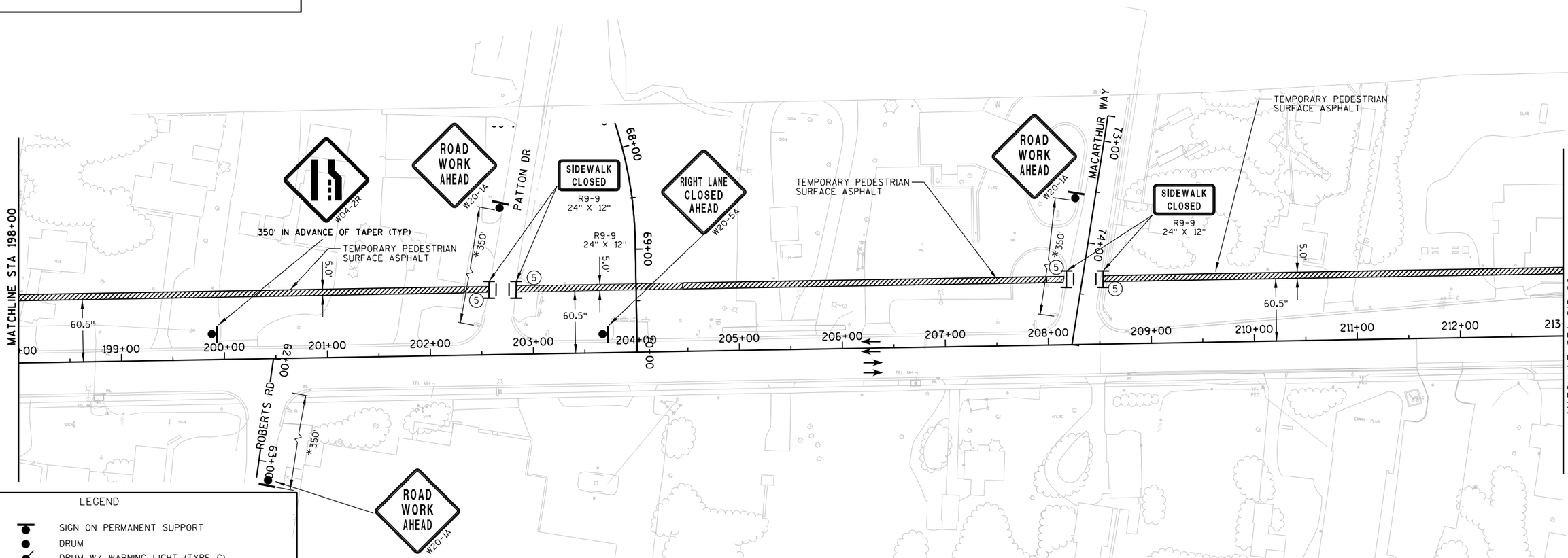
* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 1	SHEET 72	E

LEGEND

1. TEMPORARY PAVEMENT MARKING 18-INCH STOP LINE REMOVABLE TAPE
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW ON LEFT, WHITE ON RIGHT)
3. REMOVING PAVEMENT MARKING
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW, SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRIAN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

2



LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

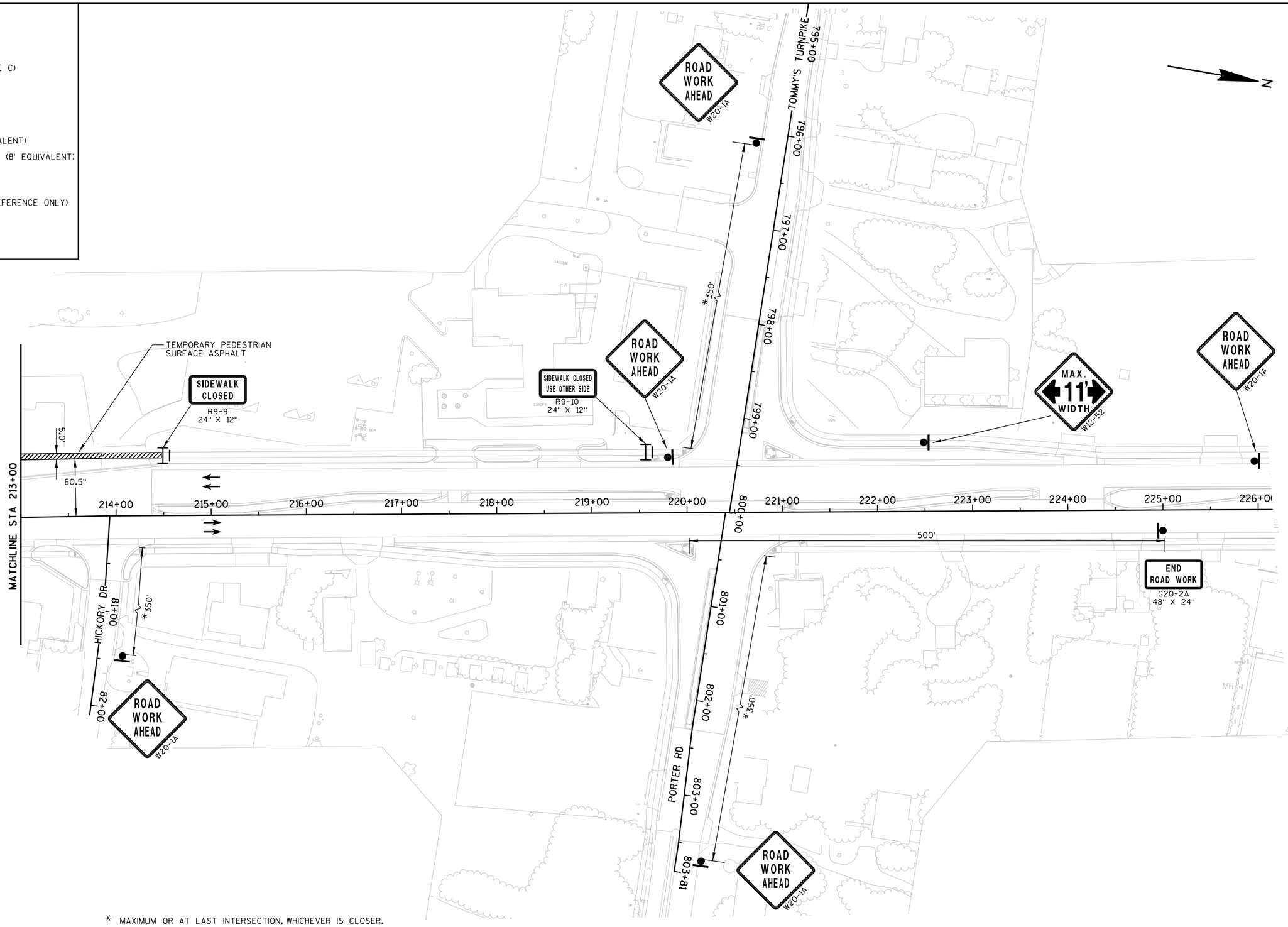
* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 1	SHEET 73	E

2

LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
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- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER



* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 1	SHEET 74	E

2

ADVANCED WARNING SIGNING DETAIL

START OF LANE CLOSURE TAPER STA 168+50

ROAD WORK AHEAD W20-1A — 350' — MAX. 11' WIDTH W12-32 — 350' — LEFT LANE CLOSED AHEAD W20-55A — 350' — W04-2L — 350'

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

END ROAD WORK
G20-2A
48" X 24"

ADVANCED WARNING SIGNING (SEE DETAIL)

ROAD WORK AHEAD W20-1A

LANE CLOSED
R11-2L
48" X 30"

LANE CLOSED
R11-2L
48" X 30"

SIDEWALK CLOSED USE OTHER SIDE
R9-10
24" X 12"

ROAD WORK AHEAD W20-1A

ROAD WORK AHEAD W20-1A

ROAD CLOSED
R11-2
48" X 30"

ROAD CLOSED
R11-2
48" X 30"

PLACE AT LAST INTERSECTION PRIOR TO CLOSURE.

ROAD CLOSED AHEAD W20-3A

W01-6
48" X 24"

W01-4L

W06-3

COMPLETED IN STAGE 1

PLOVER SPRINGS DR

SPRINGVILLE DR

BUSINESS 51

MATCHLINE STA 183+00

168+00 169+00 170+00 171+00 172+00 173+00 174+00 175+00 176+00 177+00 178+00 179+00 180+00 181+00 182+00 183+00 184+00 185+00 186+00 187+00 188+00 189+00 190+00 191+00 192+00 193+00 194+00 195+00 196+00 197+00 198+00 199+00 200+00 201+00 202+00 203+00 204+00 205+00 206+00 207+00 208+00 209+00 210+00 211+00 212+00 213+00 214+00 215+00 216+00 217+00 218+00 219+00 220+00 221+00 222+00 223+00 224+00 225+00 226+00 227+00 228+00 229+00 230+00 231+00 232+00 233+00 234+00 235+00 236+00 237+00 238+00 239+00 240+00 241+00 242+00 243+00 244+00 245+00 246+00 247+00 248+00 249+00 250+00 251+00 252+00 253+00 254+00 255+00 256+00 257+00 258+00 259+00 260+00 261+00 262+00 263+00 264+00 265+00 266+00 267+00 268+00 269+00 270+00 271+00 272+00 273+00 274+00 275+00 276+00 277+00 278+00 279+00 280+00 281+00 282+00 283+00 284+00 285+00 286+00 287+00 288+00 289+00 290+00 291+00 292+00 293+00 294+00 295+00 296+00 297+00 298+00 299+00 300+00 301+00 302+00 303+00 304+00 305+00 306+00 307+00 308+00 309+00 310+00 311+00 312+00 313+00 314+00 315+00 316+00 317+00 318+00 319+00 320+00 321+00 322+00 323+00 324+00 325+00 326+00 327+00 328+00 329+00 330+00 331+00 332+00 333+00 334+00 335+00 336+00 337+00 338+00 339+00 340+00 341+00 342+00 343+00 344+00 345+00 346+00 347+00 348+00 349+00 350+00 351+00 352+00 353+00 354+00 355+00 356+00 357+00 358+00 359+00 360+00 361+00 362+00 363+00 364+00 365+00 366+00 367+00 368+00 369+00 370+00 371+00 372+00 373+00 374+00 375+00 376+00 377+00 378+00 379+00 380+00 381+00 382+00 383+00 384+00 385+00 386+00 387+00 388+00 389+00 390+00 391+00 392+00 393+00 394+00 395+00 396+00 397+00 398+00 399+00 400+00 401+00 402+00 403+00 404+00 405+00 406+00 407+00 408+00 409+00 410+00 411+00 412+00 413+00 414+00 415+00 416+00 417+00 418+00 419+00 420+00 421+00 422+00 423+00 424+00 425+00 426+00 427+00 428+00 429+00 430+00 431+00 432+00 433+00 434+00 435+00 436+00 437+00 438+00 439+00 440+00 441+00 442+00 443+00 444+00 445+00 446+00 447+00 448+00 449+00 450+00 451+00 452+00 453+00 454+00 455+00 456+00 457+00 458+00 459+00 460+00 461+00 462+00 463+00 464+00 465+00 466+00 467+00 468+00 469+00 470+00 471+00 472+00 473+00 474+00 475+00 476+00 477+00 478+00 479+00 480+00 481+00 482+00 483+00 484+00 485+00 486+00 487+00 488+00 489+00 490+00 491+00 492+00 493+00 494+00 495+00 496+00 497+00 498+00 499+00 500+00 501+00 502+00 503+00 504+00 505+00 506+00 507+00 508+00 509+00 510+00 511+00 512+00 513+00 514+00 515+00 516+00 517+00 518+00 519+00 520+00 521+00 522+00 523+00 524+00 525+00 526+00 527+00 528+00 529+00 530+00 531+00 532+00 533+00 534+00 535+00 536+00 537+00 538+00 539+00 540+00 541+00 542+00 543+00 544+00 545+00 546+00 547+00 548+00 549+00 550+00 551+00 552+00 553+00 554+00 555+00 556+00 557+00 558+00 559+00 560+00 561+00 562+00 563+00 564+00 565+00 566+00 567+00 568+00 569+00 570+00 571+00 572+00 573+00 574+00 575+00 576+00 577+00 578+00 579+00 580+00 581+00 582+00 583+00 584+00 585+00 586+00 587+00 588+00 589+00 590+00 591+00 592+00 593+00 594+00 595+00 596+00 597+00 598+00 599+00 600+00 601+00 602+00 603+00 604+00 605+00 606+00 607+00 608+00 609+00 610+00 611+00 612+00 613+00 614+00 615+00 616+00 617+00 618+00 619+00 620+00 621+00 622+00 623+00 624+00 625+00 626+00 627+00 628+00 629+00 630+00 631+00 632+00 633+00 634+00 635+00 636+00 637+00 638+00 639+00 640+00 641+00 642+00 643+00 644+00 645+00 646+00 647+00 648+00 649+00 650+00 651+00 652+00 653+00 654+00 655+00 656+00 657+00 658+00 659+00 660+00 661+00 662+00 663+00 664+00 665+00 666+00 667+00 668+00 669+00 670+00 671+00 672+00 673+00 674+00 675+00 676+00 677+00 678+00 679+00 680+00 681+00 682+00 683+00 684+00 685+00 686+00 687+00 688+00 689+00 690+00 691+00 692+00 693+00 694+00 695+00 696+00 697+00 698+00 699+00 700+00 701+00 702+00 703+00 704+00 705+00 706+00 707+00 708+00 709+00 710+00 711+00 712+00 713+00 714+00 715+00 716+00 717+00 718+00 719+00 720+00 721+00 722+00 723+00 724+00 725+00 726+00 727+00 728+00 729+00 730+00 731+00 732+00 733+00 734+00 735+00 736+00 737+00 738+00 739+00 740+00 741+00 742+00 743+00 744+00 745+00 746+00 747+00 748+00 749+00 750+00 751+00 752+00 753+00 754+00 755+00 756+00 757+00 758+00 759+00 760+00 761+00 762+00 763+00 764+00 765+00 766+00 767+00 768+00 769+00 770+00 771+00 772+00 773+00 774+00 775+00 776+00 777+00 778+00 779+00 780+00 781+00 782+00 783+00 784+00 785+00 786+00 787+00 788+00 789+00 790+00 791+00 792+00 793+00 794+00 795+00 796+00 797+00 798+00 799+00 800+00 801+00 802+00 803+00 804+00 805+00 806+00 807+00 808+00 809+00 810+00 811+00 812+00 813+00 814+00 815+00 816+00 817+00 818+00 819+00 820+00 821+00 822+00 823+00 824+00 825+00 826+00 827+00 828+00 829+00 830+00 831+00 832+00 833+00 834+00 835+00 836+00 837+00 838+00 839+00 840+00 841+00 842+00 843+00 844+00 845+00 846+00 847+00 848+00 849+00 850+00 851+00 852+00 853+00 854+00 855+00 856+00 857+00 858+00 859+00 860+00 861+00 862+00 863+00 864+00 865+00 866+00 867+00 868+00 869+00 870+00 871+00 872+00 873+00 874+00 875+00 876+00 877+00 878+00 879+00 880+00 881+00 882+00 883+00 884+00 885+00 886+00 887+00 888+00 889+00 890+00 891+00 892+00 893+00 894+00 895+00 896+00 897+00 898+00 899+00 900+00 901+00 902+00 903+00 904+00 905+00 906+00 907+00 908+00 909+00 910+00 911+00 912+00 913+00 914+00 915+00 916+00 917+00 918+00 919+00 920+00 921+00 922+00 923+00 924+00 925+00 926+00 927+00 928+00 929+00 930+00 931+00 932+00 933+00 934+00 935+00 936+00 937+00 938+00 939+00 940+00 941+00 942+00 943+00 944+00 945+00 946+00 947+00 948+00 949+00 950+00 951+00 952+00 953+00 954+00 955+00 956+00 957+00 958+00 959+00 960+00 961+00 962+00 963+00 964+00 965+00 966+00 967+00 968+00 969+00 970+00 971+00 972+00 973+00 974+00 975+00 976+00 977+00 978+00 979+00 980+00 981+00 982+00 983+00 984+00 985+00 986+00 987+00 988+00 989+00 990+00 991+00 992+00 993+00 994+00 995+00 996+00 997+00 998+00 999+00 1000+00

500'

12.0'

50' SPC (TYP)

25' SPC (TYP)

11.0'

11.6' RT

11.1' RT

10.2' RT

28.5' RT

* 350'

* MAXIMUM OR AT LAST INTERSECTION WHICHEVER IS CLOSER

LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

LEGEND

1. TEMPORARY PAVEMENT MARKING 18-INCH STOP LINE REMOVABLE TAPE
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW ON LEFT, WHITE ON RIGHT)
3. REMOVING PAVEMENT MARKING
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW. SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRIAN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

STAGE 1A DESCRIPTION

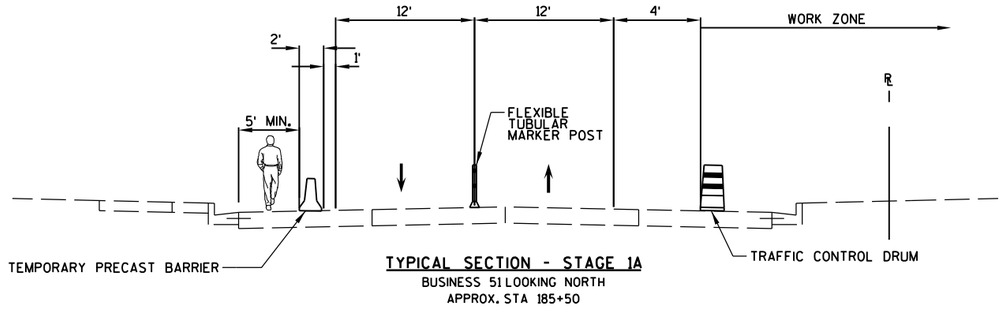
TRAFFIC ON BUSINESS 51 SHALL BE REDUCED TO ONE LANE IN EACH DIRECTION BETWEEN PLOVER SPRINGS DR. AND ROBERTS RD. TRAFFIC SHALL UTILIZE THE EXISTING SOUTHBOUND LANES OF BUSINESS 51. THE PURPOSE OF THIS STAGE IS TO CONSTRUCT THE NORTHBOUND LANES OF BUSINESS 51 FROM STATION 179+00 TO 191+15 AND INSTALL TEMPORARY PAVEMENT FROM STATION 191+15 TO 197+00. PEDESTRIAN ACCESS WILL BE MAINTAINED ON THE WEST SIDE OF BUSINESS 51. BEGIN CONSTRUCTION OF PATTON DRIVE AND RETENTION PONDS.

SHEET NOTES

- (A) EXISTING INLETS TO REMAIN ACTIVE OVER WINTER.
- (B) EXISTING STORM SEWER PIPES TO REMAIN ACTIVE OVER WINTER.
- (C) TEMPORARY BLOCK IN NEW STORM SEWER PIPE.
- (D) COVER PLATE.
- (E) TEMPORARILY EXTEND PIPE TO SPRINGVILLE POND.

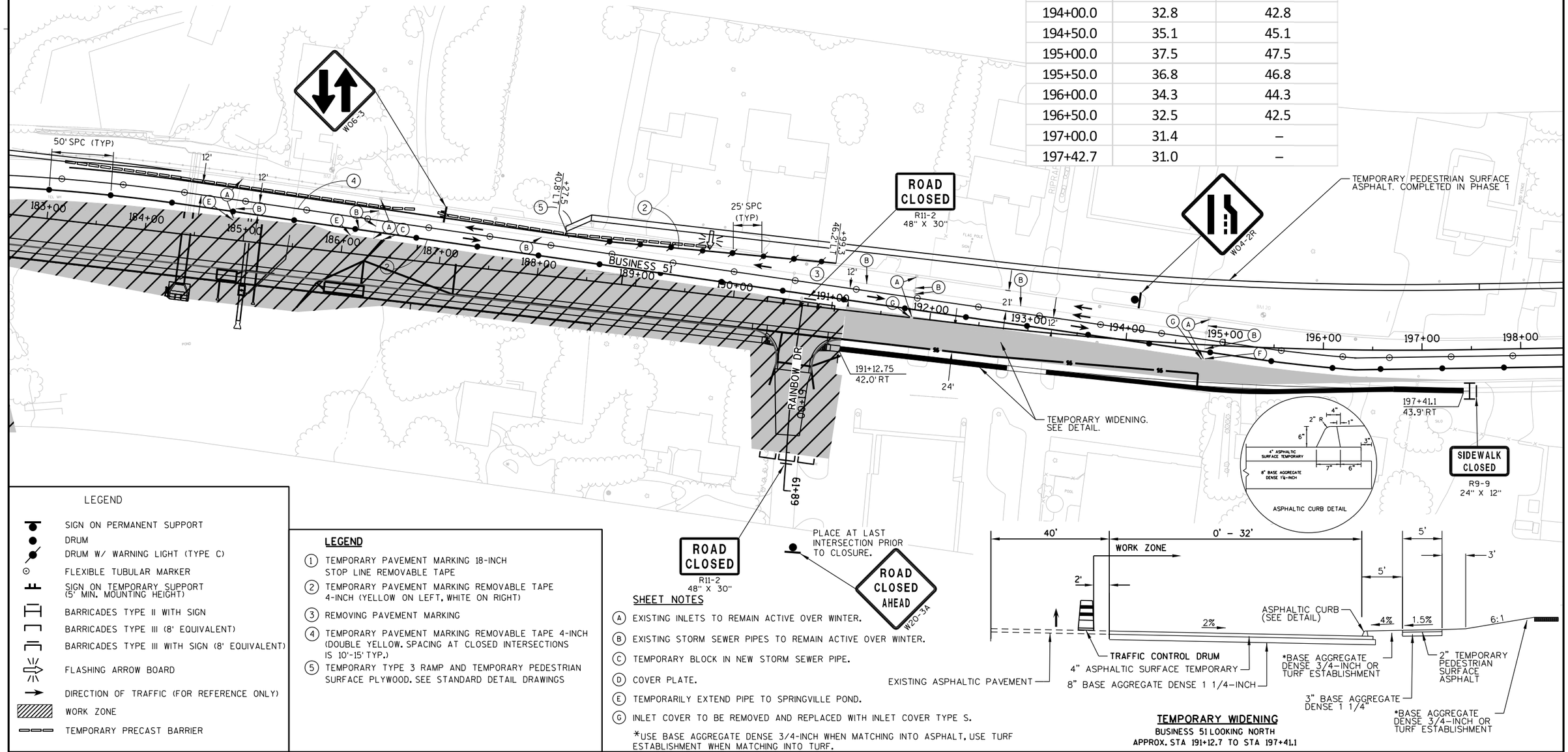
N

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 1A	SHEET 75	E



TYPICAL SECTION - STAGE 1A
BUSINESS 51 LOOKING NORTH
APPROX. STA 185+50

WIDENING LAYOUT TABLE		
STATION	EDGE OF LANE OFFSET	BACK OF SIDEWALK OFFSET
191+14.7	30.0	40.0
191+50.0	30.0	40.0
192+00.0	30.0	40.0
192+50.0	30.0	40.0
193+00.0	30.3	40.3
193+50.0	31.2	41.2
194+00.0	32.8	42.8
194+50.0	35.1	45.1
195+00.0	37.5	47.5
195+50.0	36.8	46.8
196+00.0	34.3	44.3
196+50.0	32.5	42.5
197+00.0	31.4	–
197+42.7	31.0	–



LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

LEGEND

1. TEMPORARY PAVEMENT MARKING 18-INCH STOP LINE REMOVABLE TAPE
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW ON LEFT, WHITE ON RIGHT)
3. REMOVING PAVEMENT MARKING
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW. SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRIAN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

SHEET NOTES

- (A) EXISTING INLETS TO REMAIN ACTIVE OVER WINTER.
- (B) EXISTING STORM SEWER PIPES TO REMAIN ACTIVE OVER WINTER.
- (C) TEMPORARY BLOCK IN NEW STORM SEWER PIPE.
- (D) COVER PLATE.
- (E) TEMPORARILY EXTEND PIPE TO SPRINGVILLE POND.
- (G) INLET COVER TO BE REMOVED AND REPLACED WITH INLET COVER TYPE S.

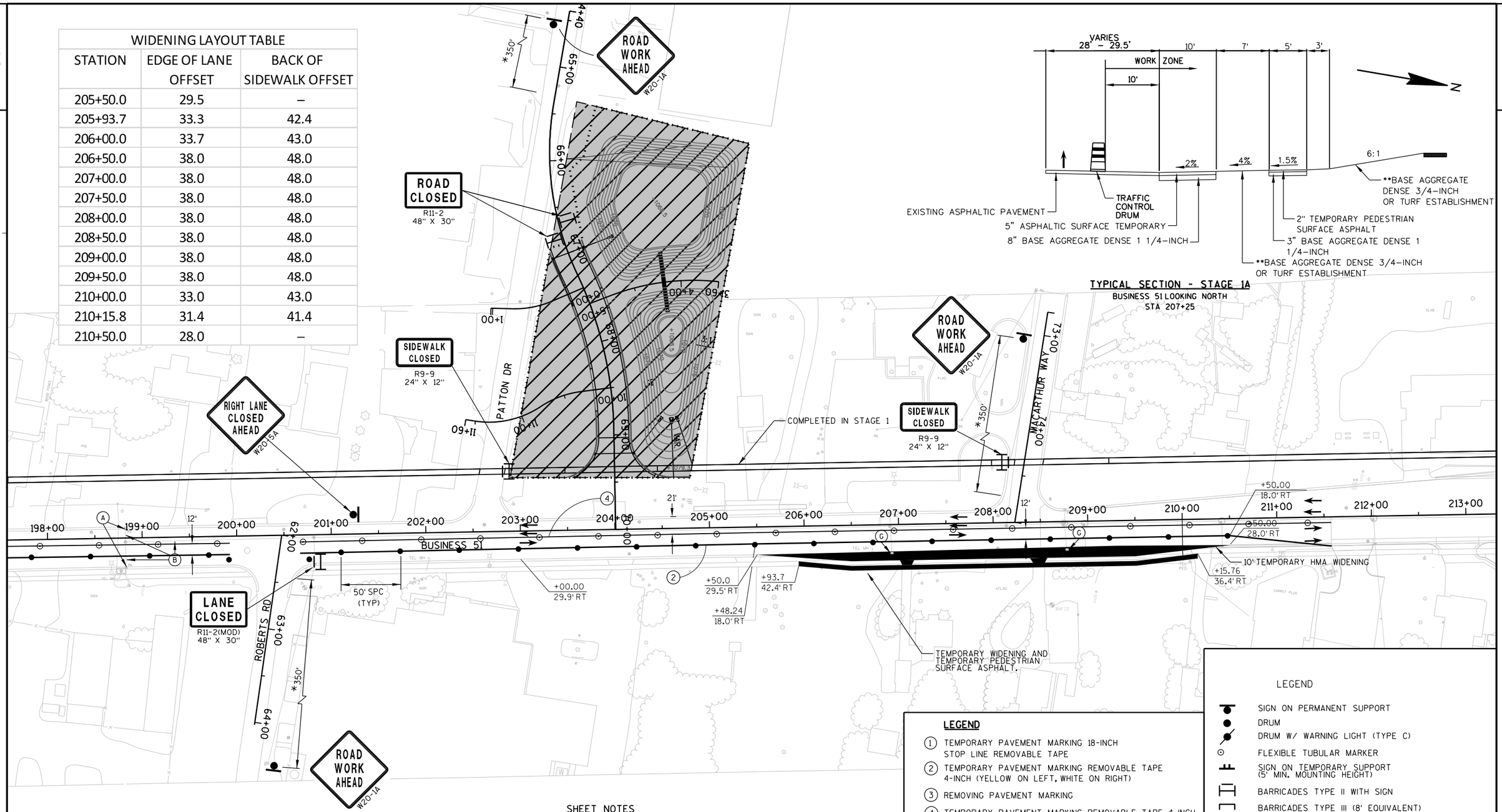
*USE BASE AGGREGATE DENSE 3/4-INCH WHEN MATCHING INTO ASPHALT, USE TURF ESTABLISHMENT WHEN MATCHING INTO TURF.

TEMPORARY WIDENING
BUSINESS 51 LOOKING NORTH
APPROX. STA 191+12.7 TO STA 197+41.1

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 1A	SHEET 76	E

WIDENING LAYOUT TABLE		
STATION	EDGE OF LANE OFFSET	BACK OF SIDEWALK OFFSET
205+50.0	29.5	–
205+93.7	33.3	42.4
206+00.0	33.7	43.0
206+50.0	38.0	48.0
207+00.0	38.0	48.0
207+50.0	38.0	48.0
208+00.0	38.0	48.0
208+50.0	38.0	48.0
209+00.0	38.0	48.0
209+50.0	38.0	48.0
210+00.0	33.0	43.0
210+15.8	31.4	41.4
210+50.0	28.0	–

TYPICAL SECTION - STAGE 1A
BUSINESS 51 LOOKING NORTH
STA 207+25



SHEET NOTES

(A) EXISTING INLETS TO REMAIN ACTIVE OVER WINTER.

(B) EXISTING STORM SEWER PIPES TO REMAIN ACTIVE OVER WINTER.

(G) INLET COVER TO BE REMOVED AND REPLACED WITH INLET COVER TYPE S.

* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

** USE BASE AGGREGATE DENSE 3/4-INCH WHEN MATCHING INTO ASPHALT, USE TURF ESTABLISHMENT WHEN MATCHING INTO TURF.

LEGEND

(1) TEMPORARY PAVEMENT MARKING 18-INCH STOP LINE REMOVABLE TAPE

(2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW ON LEFT, WHITE ON RIGHT)

(3) REMOVING PAVEMENT MARKING

(4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW. SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)

(5) TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRIAN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

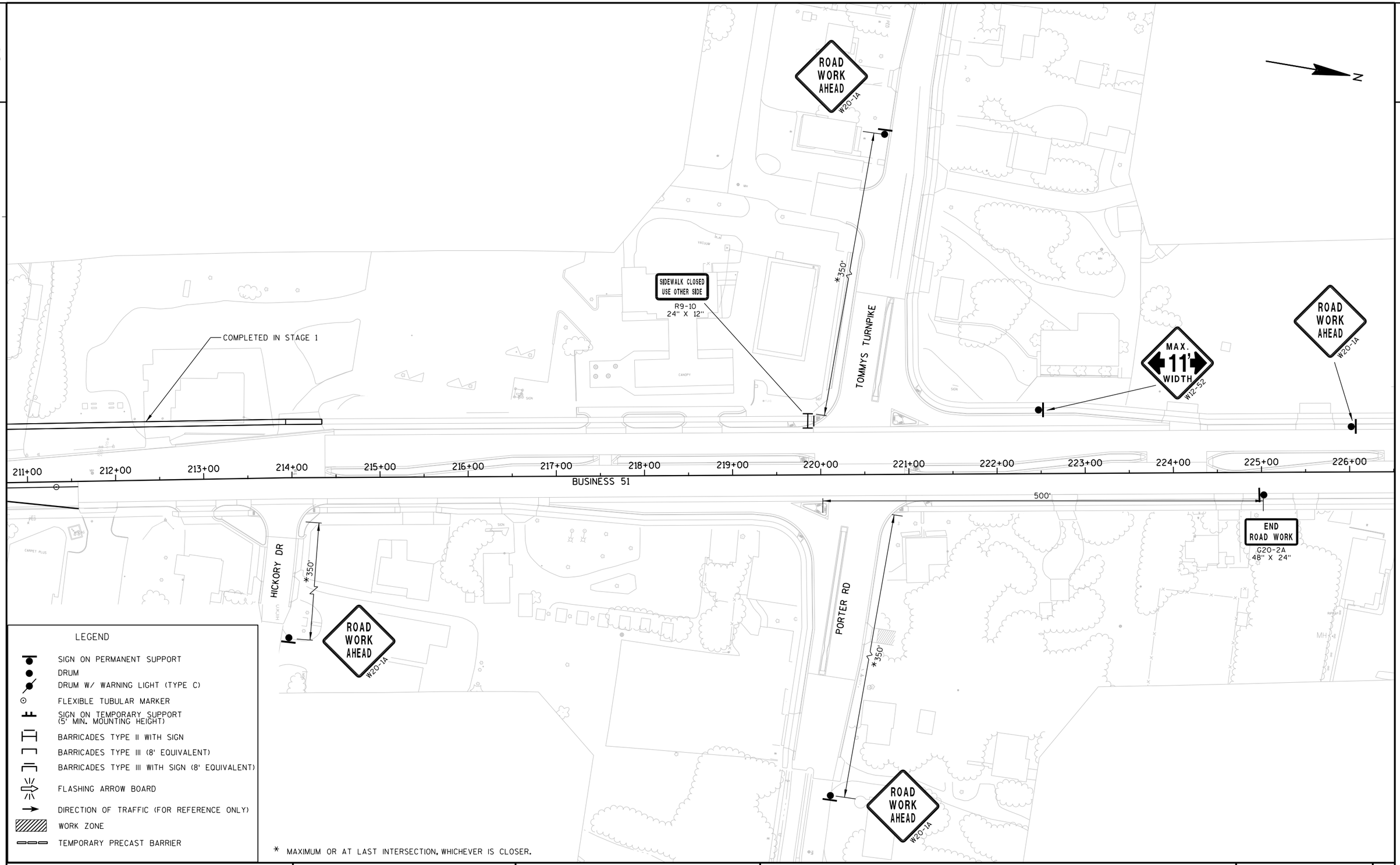
LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 1A	SHEET 77	E

2

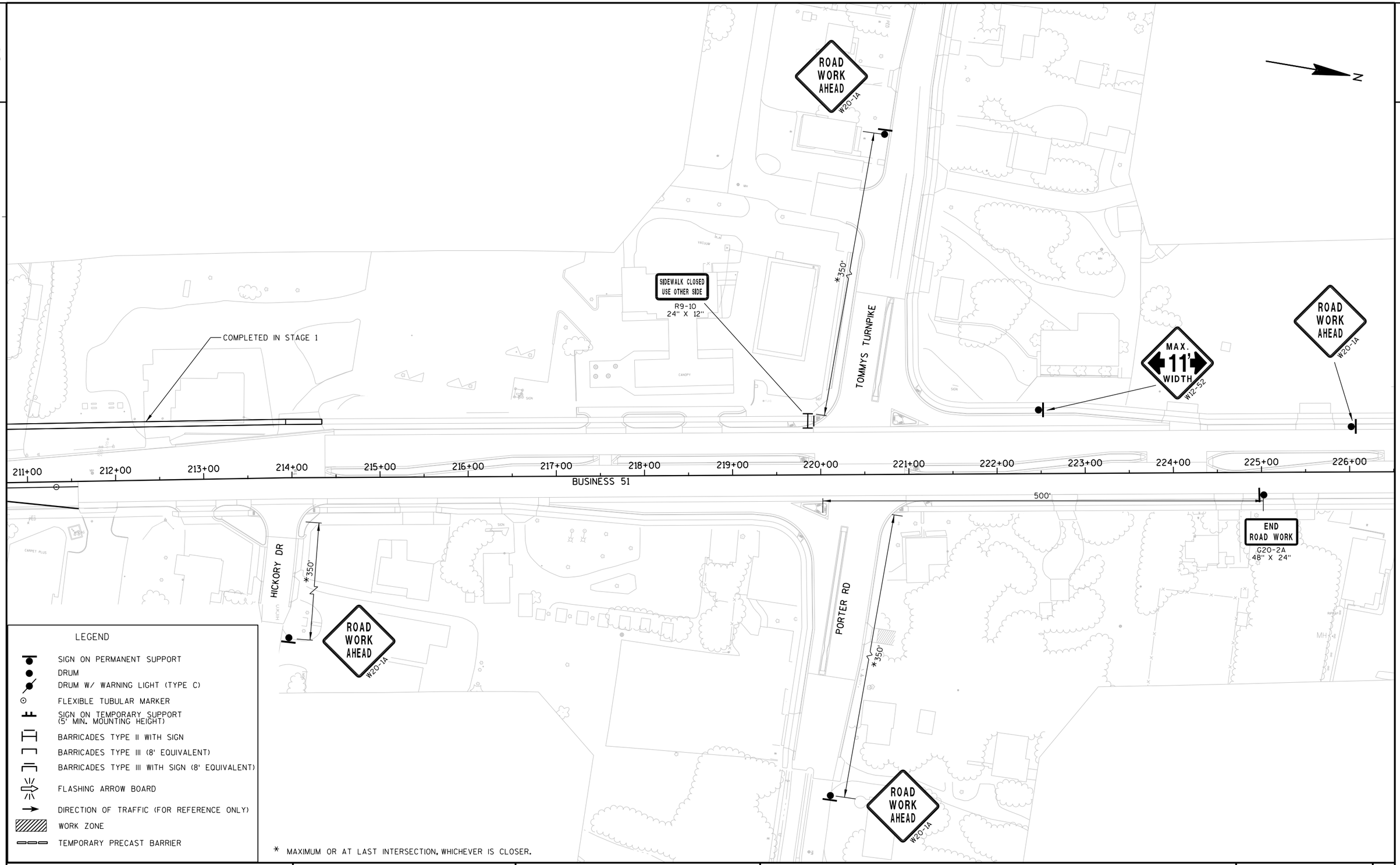
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PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 1A	SHEET 78	E

2

2



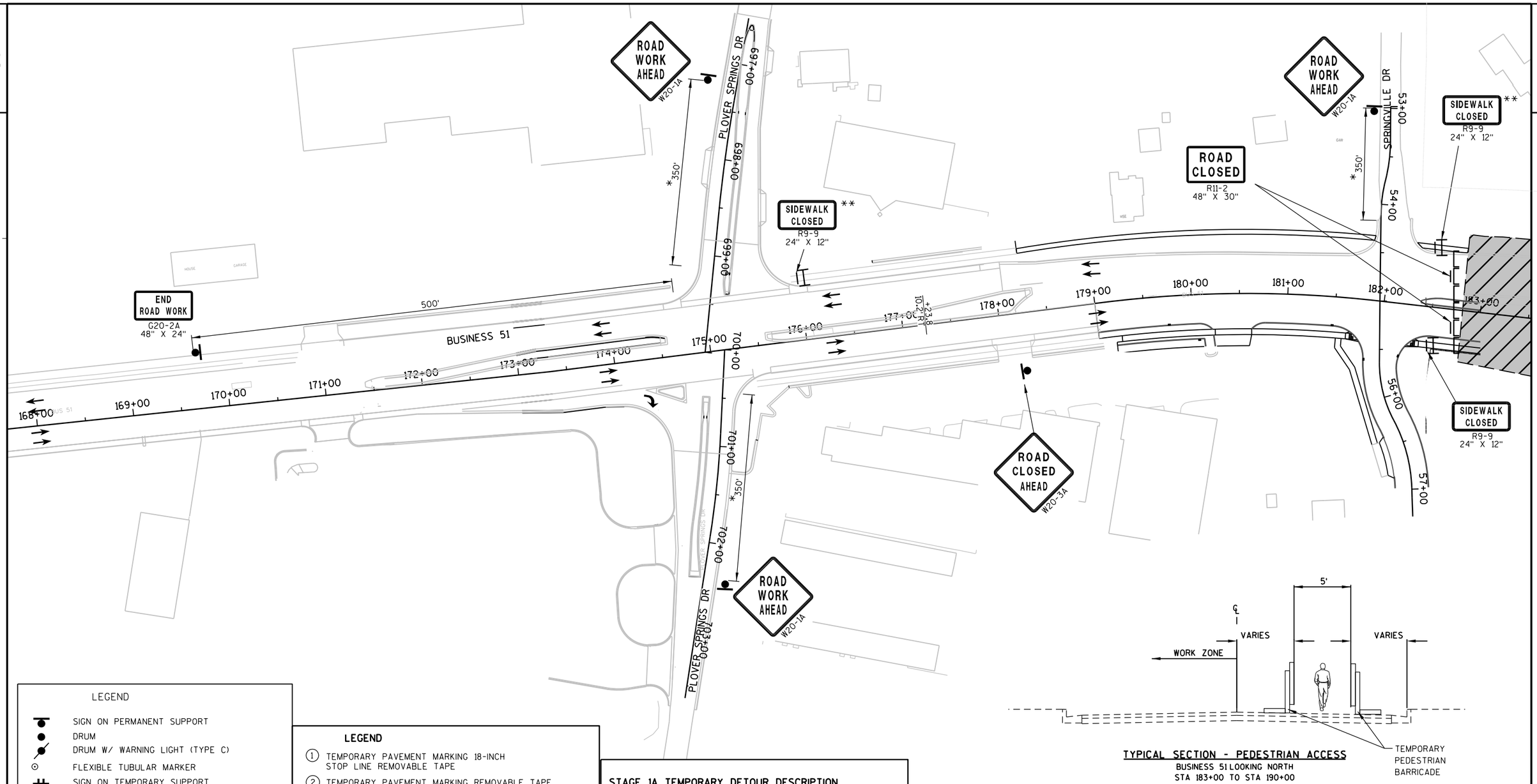
LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 1A	SHEET 79	E

2



TYPICAL SECTION - PEDESTRIAN ACCESS
BUSINESS 51 LOOKING NORTH
STA 183+00 TO STA 190+00

LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

LEGEND

1. TEMPORARY PAVEMENT MARKING 18-INCH STOP LINE REMOVABLE TAPE
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW ON LEFT, WHITE ON RIGHT)
3. REMOVING PAVEMENT MARKING
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW. SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRIAN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

STAGE 1A TEMPORARY DETOUR DESCRIPTION

BUSINESS 51 SHALL BE CLOSED BETWEEN SPRINGVILLE AND RAINBOW DR. TRAFFIC SHALL UTILIZE THE SIGNED DETOUR FOR BUSINESS 51. THE PURPOSE OF THIS STAGE IS TO CONSTRUCT THE BOX CULVERT INTO THE SPRINVILLE POND.

USE THE TEMPORARY DETOUR ROUTE FOR 21 DAYS. RETURN TO STAGE 1A TRAFFIC CONTROL ONCE DETOUR IS DISCONTINUED. USE THE TYPICAL SECTION - PEDESTRIAN ACCESS DAY 11 TO 21 OF DETOUR.

* MAXIMUM OR AT LAST INTERSECTION - WHICHEVER IS CLOSER

** REMOVE SIGN WHEN OPEN TO PEDESTRIANS

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 1A TEMPORARY DETOUR	SHEET 80	E

2

2

N

SIDEWALK CLOSED
R9-9
24" X 12" **

ROAD CLOSED
R11-2
48" X 30"

ROAD CLOSED AHEAD
W20-3A

183+00 184+00 185+00 186+00 187+00 188+00 189+00 190+00 191+00 192+00 193+00 194+00 195+00 196+00 197+00 198+00

BUSINESS 51

RAINBOW DR

68+19

SIDEWALK CLOSED
R9-9
24" X 12"

TEMPORARY WIDENING AND TEMPORARY PEDESTRIAN SURFACE ASPHALT. COMPLETED IN STAGE 1A

SIDEWALK CLOSED
R9-9
24" X 12"

LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

LEGEND

1. TEMPORARY PAVEMENT MARKING 18-INCH STOP LINE REMOVABLE TAPE
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW ON LEFT, WHITE ON RIGHT)
3. REMOVING PAVEMENT MARKING
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW. SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRIAN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

** REMOVE SIGN WHEN OPEN TO PEDESTRIANS

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 1A TEMPORARY DETOUR	SHEET 81	E

2

2

SEE SHEET TEMPORARY
DETOUR ROUTE BUS 51 & CTH HH

PCMS

MCDILL AVE

POST ROAD/BUS 51

ELM STREET

SEE SHEET TEMPORARY
DETOUR ROUTE
CTH HH & IH 39/US 51

PORTER ROAD

HOOVER AVE

IH 39

PCMS INSTALLED 7 DAYS PRIOR TO ROAD CLOSURE

PHASE 1	PHASE 2
BUS 51 POST RD CLOSING	MONTH DAY YEAR

PCMS DURING ROAD CLOSURE

PHASE 1	PHASE 2
BUS 51 POST RD CLOSED	FOLLOW DETOUR

WORK ZONE

PLOVER SPRINGS ROAD

CTH R

SEE SHEET TEMPORARY
DETOUR ROUTE
CTH B & IH 39/US 51

RIVER ROAD

CEDAR DRIVE

SEE SHEET TEMPORARY
DETOUR ROUTE
BUS 51 & CTH B/PLOVER RD.

PLOVER ROAD

PCMS

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TEMPORARY DETOUR ROUTE CTH B & IH 39/US 51	SHEET 82	E

2

2

N

NORTH
BUSINESS
51
DETOUR
AHEAD
W20-2A

PLACE 1000 FT
BEFORE INTERSECTION

END
DETOUR
SOUTH
BUSINESS
51

DETOUR
NORTH
BUSINESS
51

PLOVER ROAD

POST ROAD/ BUS 51

ROAD CLOSED
1.3 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

DETOUR
AHEAD
W20-2A

DETOUR
NORTH
BUSINESS
51

DETOUR
NORTH
BUSINESS
51

DETOUR
NORTH
BUSINESS
51

DETOUR
SOUTH
BUSINESS
51

DETOUR
SOUTH
BUSINESS
51

PLACE 1000 FT
BEFORE INTERSECTION

LEGEND

SIGN ON PERMANENT SUPPORT	NORTH	M3-1 24" X 12"	M05-1R 21" X 21"	M06-1A 21" X 21"	
DETOUR ROUTE	SOUTH	M3-3 24" X 12"	M05-1L 21" X 21"	M05-2R 21" X 21"	
DETOUR AHEAD W20-2A 48" X 48"	BUSINESS	M4-3 24" X 12"	M06-1R 21" X 21"	M06-2R 21" X 21"	
ROAD CLOSED X.X MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60" X 30"	DETOUR	M4-8 24" X 12"	M06-1L 21" X 21"		
	END DETOUR	M4-8A 24" X 12"			
	51	M1-4 24" X 24"			

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TEMPORARY DETOUR ROUTE BUS 51 & CTH B / PLOVER RD	SHEET 83	E

2

LEGEND

- SIGN ON PERMANENT SUPPORT
- DETOUR ROUTE
- DETOUR AHEAD — W20-2A — 48" X 48"
- ROAD CLOSED X.X MILES AHEAD LOCAL TRAFFIC ONLY — R11-3 — 60" X 30"
- NORTH — M3-1 — 24" X 12" * 36" X 18"
- SOUTH — M3-3 — 24" X 12" * 36" X 18"
- BUSINESS — M4-3 — 24" X 12" * 36" X 18"
- DETOUR — M4-8 — 24" X 12" * 36" X 18"
- END DETOUR — M4-8A — 24" X 18"
- M05-1R — 21" X 21" * 30" X 30"
- M05-1L — 21" X 21" * 30" X 30"
- M06-1R — 21" X 21" * 30" X 30"
- M06-1L — 21" X 21" * 30" X 30"
- 51 — M1-4 — 24" X 24" * 30" X 30"
- M06-1A — 21" X 21"* 30" X 30"
- M05-2R — 21" X 21" * 30" X 30"
- M06-2R — 21" X 21" * 30" X 30"

*USE SMALLER SIGN SIZE UNLESS OTHERWISE DIRECTED

NOTES:
(A) USE OVERSIZE SIGNS

N

PLACE 500 FT AHEAD OF EXIT 153

DETOUR SOUTH BUSINESS 51 (A)

DETOUR SOUTH BUSINESS 51 EXIT 153 (A)

DETOUR SOUTH BUSINESS 51

DETOUR SOUTH BUSINESS 51 COUNTY B

IH 39 / US 51 SB

IH 39 / US 51 NB

NORTH NORTH INTERSTATE 39 51 DETOUR NORTH BUSINESS 51 (A)

DETOUR NORTH BUSINESS 51

DETOUR NORTH BUSINESS 51

PLACE 1500 FT BEFORE NORTHBOUND RAMPS

NORTH BUSINESS 51 DETOUR AHEAD

PLOVER ROAD

NORTH SOUTH INTERSTATE 39 39 51 51 DETOUR NORTH BUSINESS 51

SPEED LIMIT 45

NORTH INTERSTATE 39 51

NORTH INTERSTATE 39 51 DETOUR NORTH BUSINESS 51

(A) EXIT 153 NORTH BUSINESS 51

NORTH BUSINESS 51 DETOUR AHEAD

PLACE 1500 FT BEFORE EXIT 153

2

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TEMPORARY DETOUR ROUTE CTH B & IH-39/US 51	SHEET	E

FILE NAME : P:\SEHIN\14001 - Bus 51_Sprngvl Rd-Tmy's Trnpke (-09)\Cad\Detour\DTBUS5103.dgn PLOT DATE : 12/14/2020 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$
WISDOT/CADDS SHEET 42

2

NOTES:
(A) USE OVERSIZE SIGNS

DETOUR SOUTH BUSINESS 51

PLACE 500 FT BEFORE NORTHBOUND RAMPS

SOUTH US 39 51 DETOUR SOUTH BUSINESS 51

MEDLI AVENUE

COUNTY HH

DETOUR NORTH BUSINESS 51

N

2

(A)

DETOUR SOUTH SOUTH US 39 51 BUSINESS 51

DETOUR SOUTH BUSINESS 51 EXIT 156

(A)

SOUTH BUSINESS 51 DETOUR AHEAD W20-2A

(A)

IH 39 / US 51 SB

IH 39 / US 51 NB

EXIT 156 DETOUR SOUTH BUSINESS 51 COUNTY HH WHITING

(A)

DETOUR NORTH BUSINESS EXIT 156 51

(A)

COUNTY HH DETOUR NORTH BUSINESS 51

PLACE 1500 FT BEFORE NORTHBOUND RAMPS

SOUTH BUSINESS 51 DETOUR AHEAD W20-2A

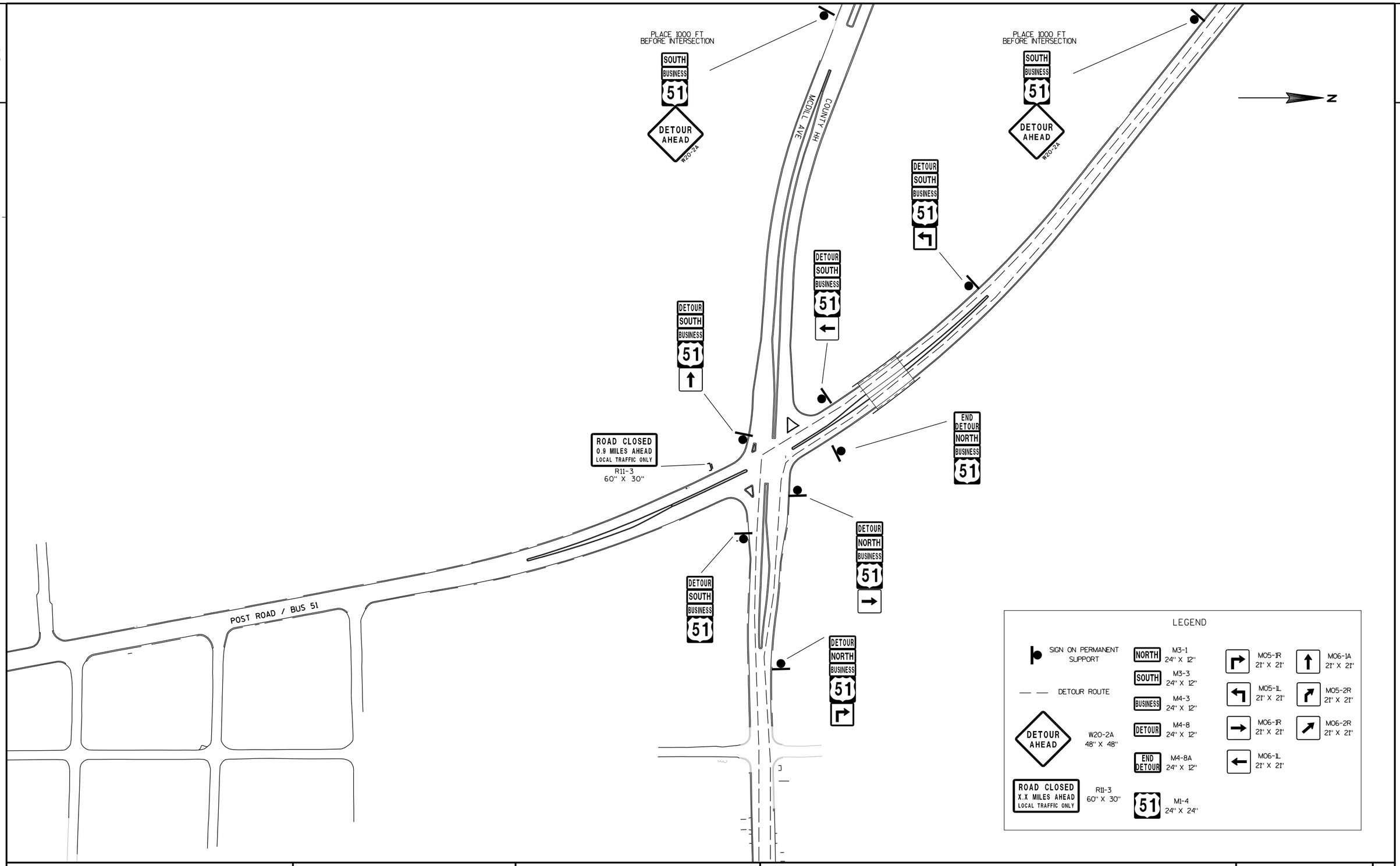
LEGEND

SIGN ON PERMANENT SUPPORT	NORTH M3-1 24" X 12" * 36" X 18"	M05-1R 21" X 21" * 30" X 30"	M06-1A 21" X 21"* 30" X 30"
DETOUR ROUTE	SOUTH M3-3 24" X 12" * 36" X 18"	M05-1L 21" X 21" * 30" X 30"	M05-2R 21" X 21" * 30" X 30"
DETOUR AHEAD W20-2A 48" X 48"	BUSINESS M4-3 24" X 12" * 36" X 18"	M06-1R 21" X 21" * 30" X 30"	M06-2R 21" X 21" * 30" X 30"
	DETOUR M4-8 24" X 12" * 36" X 18"	M06-1L 21" X 21" * 30" X 30"	
ROAD CLOSED X.X MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60" X 30"	END DETOUR M4-8A 24" X 18"	51 M1-4 24" X 24" * 30" X 30"	

*USE SMALLER SIGN SIZE UNLESS OTHERWISE DIRECTED

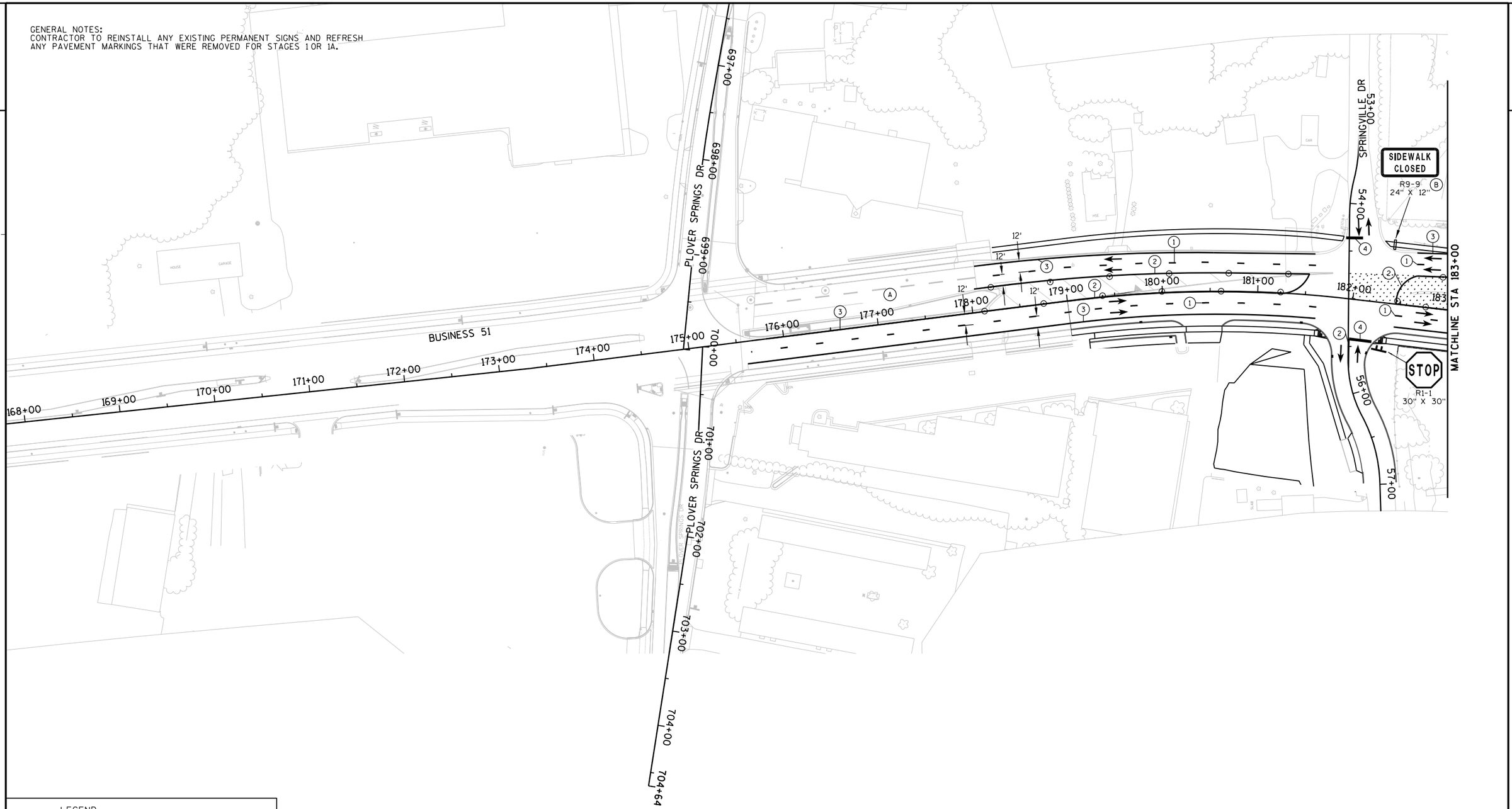
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TEMPORARY DETOUR ROUTE CTH HH & IH 39/US 51	SHEET 85	E

2



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TEMPORARY DETOUR ROUTE BUS 51 & CTH HH	SHEET 86	E

GENERAL NOTES:
CONTRACTOR TO REINSTALL ANY EXISTING PERMANENT SIGNS AND REFRESH ANY PAVEMENT MARKINGS THAT WERE REMOVED FOR STAGES 1 OR 1A.



LEGEND

- SIGN ON PERMANENT SUPPORT
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE II WITH SIGN
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)

WINTER SHUTDOWN DESCRIPTION

SOUTHBOUND TRAFFIC ON BUSINESS 51 SHALL BE RETURNED TO ITS ORIGINAL LANES OF TRAVEL FOR THE DURATION OF THE WINTER. NORTHBOUND TRAFFIC USES TEMP ASPHALT SURFACE PLACED DURING PREVIOUS STAGE. NEW SIDEWALK ON WEST SIDE OF BUSINESS 51 SHALL BE OPEN TO PEDESTRIANS.

PAVEMENT MARKING LEGEND

1. TEMPORARY MARKING LINE PAINT 4-INCH (SKIP, WHITE)
2. TEMPORARY MARKING LINE PAINT 4-INCH (DOUBLE YELLOW)
3. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
4. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)

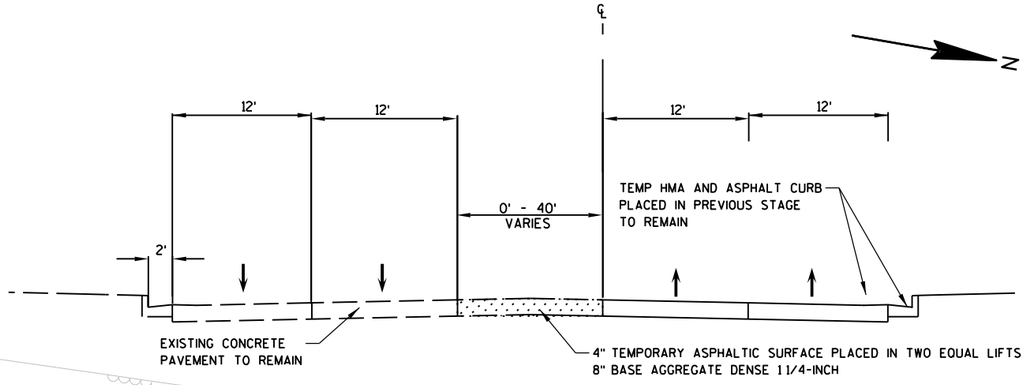
SHEET NOTES

(A) EXISTING PAVEMENT MARKING
(B) MOUNT TO BARRIER. INCIDENTAL TO TRAFFIC CONTROL SIGNS ITEM.

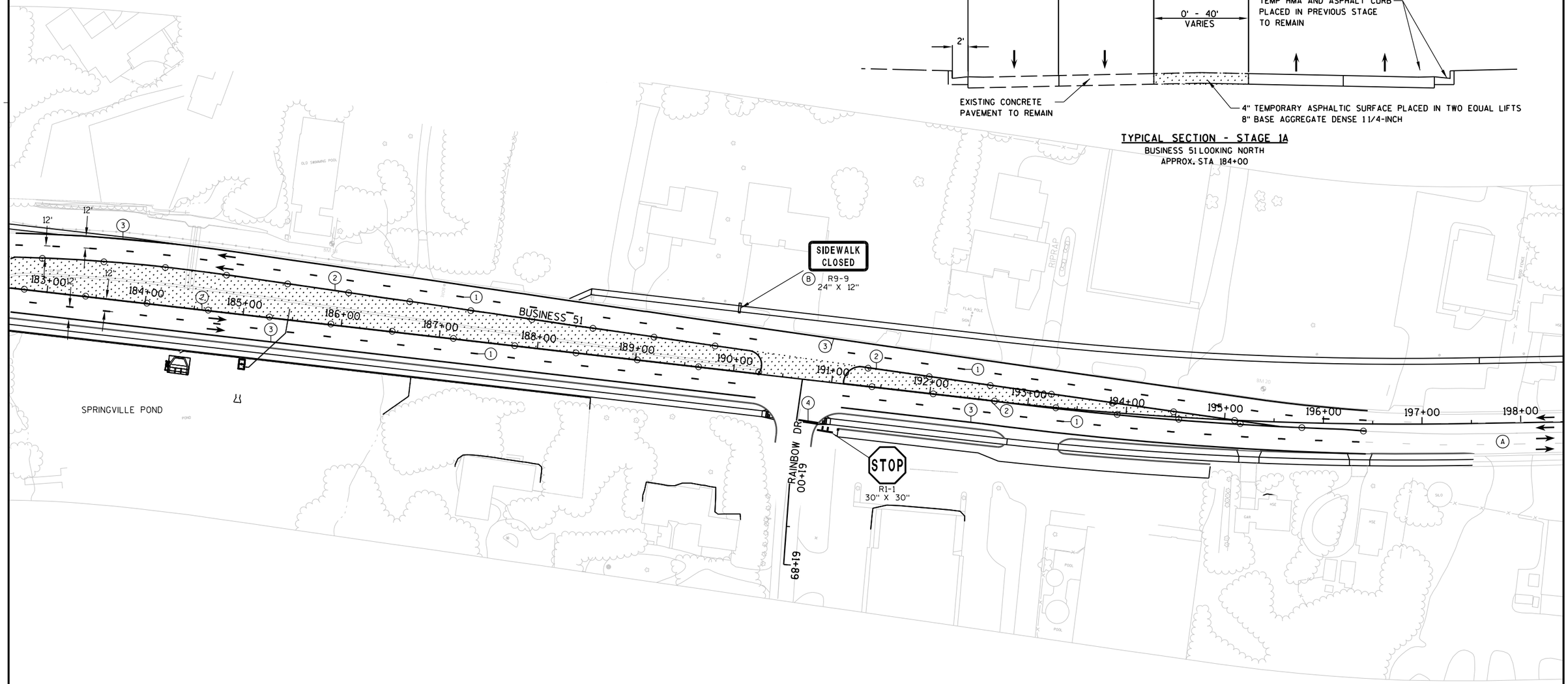
USE 4" OF TEMPORARY ASPHALTIC SURFACE PLACED IN TWO EQUAL LIFTS OVER 8" OF BASE AGGREGATE DENSE 1 1/4-INCH

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL WINTER SHUTDOWN	SHEET 87	E

GENERAL NOTES:
CONTRACTOR TO REINSTALL ANY EXISTING PERMANENT SIGNS AND REFRESH ANY PAVEMENT MARKINGS THAT WERE REMOVED FOR STAGES 1 OR 1A.



TYPICAL SECTION - STAGE 1A
BUSINESS 51 LOOKING NORTH
APPROX. STA 184+00



LEGEND

- SIGN ON PERMANENT SUPPORT
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE II WITH SIGN
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)

PAVEMENT MARKING LEGEND

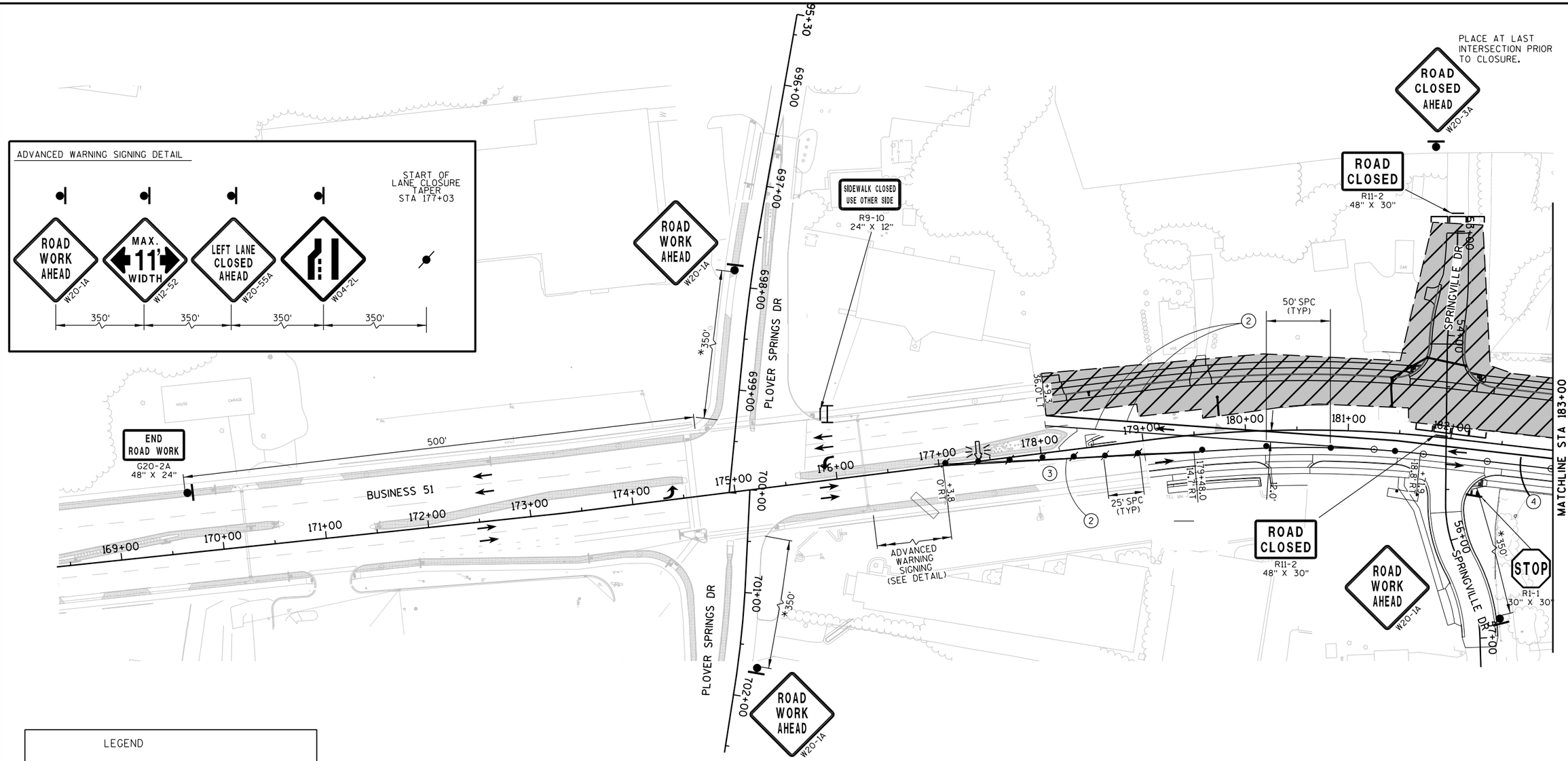
1. TEMPORARY MARKING LINE PAINT 4-INCH (SKIP, WHITE)
2. TEMPORARY MARKING LINE PAINT 4-INCH (DOUBLE YELLOW)
3. TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)
4. TEMPORARY MARKING STOP LINE PAINT 18-INCH (WHITE)

SHEET NOTES

- (A) EXISTING PAVEMENT MARKING
- (B) MOUNT TO BARRIER. INCIDENTAL TO TRAFFIC CONTROL SIGNS ITEM.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL WINTER SHUTDOWN	SHEET 88	E

2



LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

LEGEND

1. TEMPORARY PAVEMENT MARKING 18-INCH STOP LINE REMOVABLE TAPE
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW ON LEFT, WHITE ON RIGHT)
3. REMOVING PAVEMENT MARKING
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW. SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP. SEE STANDARD DETAIL DRAWINGS

STAGE 2 DESCRIPTION

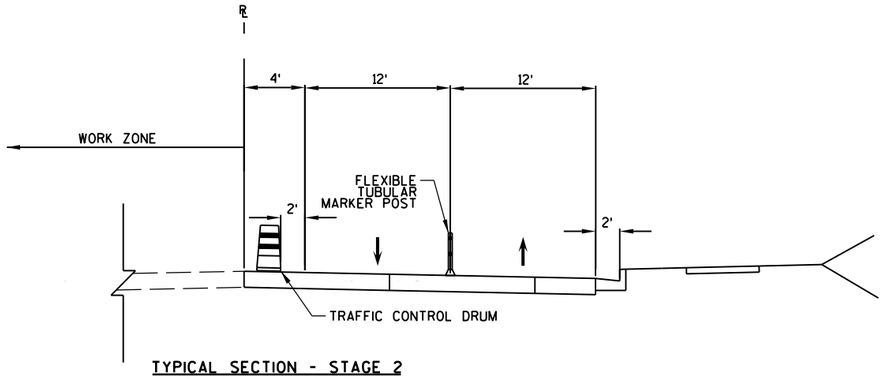
TRAFFIC ON BUSINESS 51 SHALL BE REDUCED TO ONE LANE IN EACH DIRECTION BETWEEN PLOVER SPRINGS DR. AND PORTER ROAD. TRAFFIC SHALL UTILIZE THE NORTHBOUND LANES OF BUSINESS 51. PEDESTRIAN ACCESS WILL BE MAINTAINED ON THE EAST SIDE OF BUSINESS 51. THE PURPOSE OF THIS STAGE IS TO CONSTRUCT THE SOUTHBOUND LANES OF BUSINESS 51 FROM NORTH OF PLOVER SPRINGS DR. TO HICKORY DR. CONTINUE THE RE-ALIGNMENT OF PATTON DR. STORM SEWER WILL BE CONSTRUCTED IN THE MEDIAN AREA OF BUSINESS 51.

DO NOT CLOSE PATTON DRIVE AND MACARTHUR WAY AT THE SAME TIME.

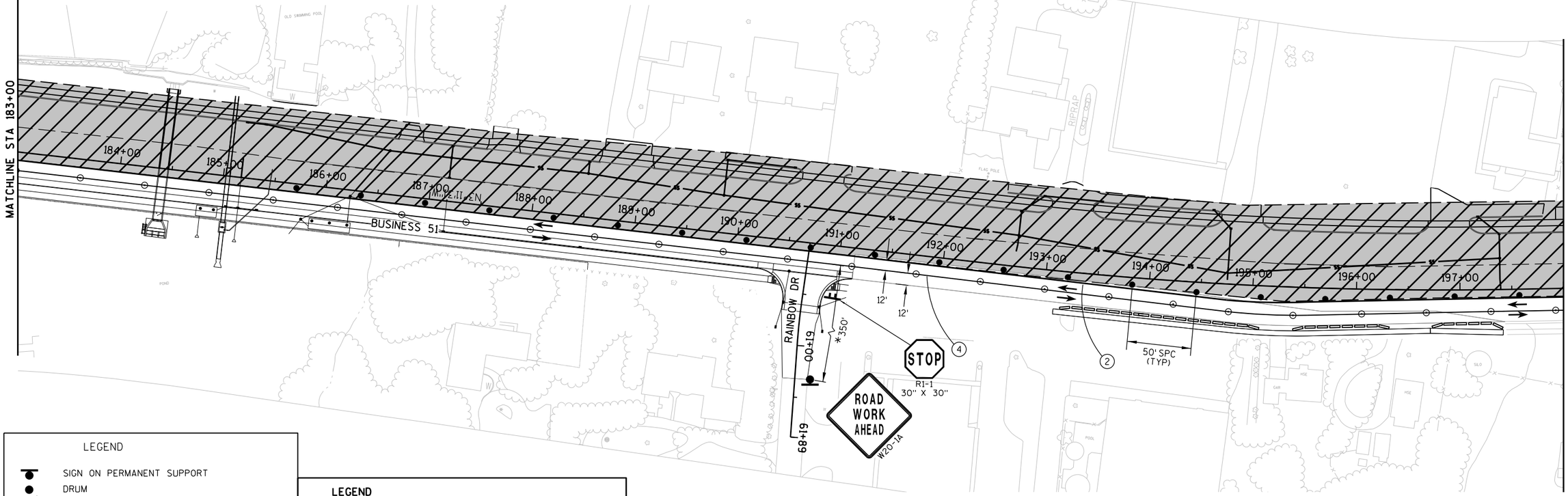
* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 2	SHEET 89	E

2



TYPICAL SECTION - STAGE 2
BUSINESS 51 LOOKING NORTH
APPROX. STA 188+00



LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

LEGEND

1. TEMPORARY PAVEMENT MARKING 18-INCH STOP LINE REMOVABLE TAPE
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW ON LEFT, WHITE ON RIGHT)
3. REMOVING PAVEMENT MARKING
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW. SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRIAN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 2	SHEET 90	E

2

PLACE AT LAST INTERSECTION PRIOR TO CLOSURE.

ROAD CLOSED AHEAD W20-3A

ROAD CLOSED R11-2 48" X 30"

INFILTRATION PONDS

PLACE AT LAST INTERSECTION PRIOR TO CLOSURE.

ROAD CLOSED AHEAD W20-3A

ROAD CLOSED R11-2 48" X 30"

MATCHLINE STA 198+00

MATCHLINE STA 213+00

BUSINESS 51

199+00 200+00 201+00 202+00 203+00 204+00 205+00 206+00 207+00 208+00 209+00 210+00 211+00 212+00

55+00 57+00 59+00 61+00 63+00 65+00 67+00 69+00 1+00 3+60 4+00 10+00 11+00 11+60 73+00

MACARTHUR WAY

ROBERTS RD

50' SPC (TYP)

25' SPC (TYP)

STOP R1-1 30" X 30"

ROAD WORK AHEAD W20-1A

*350'

ROAD CLOSED R11-2 48" X 30"

ROAD CLOSED R11-2 48" X 30"

12.0' 12.0'

+29.5 15.5' RT

+76.2 11.9' RT

LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

LEGEND

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3. REMOVING PAVEMENT MARKING
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW. SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRIAN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

SHEET NOTES:

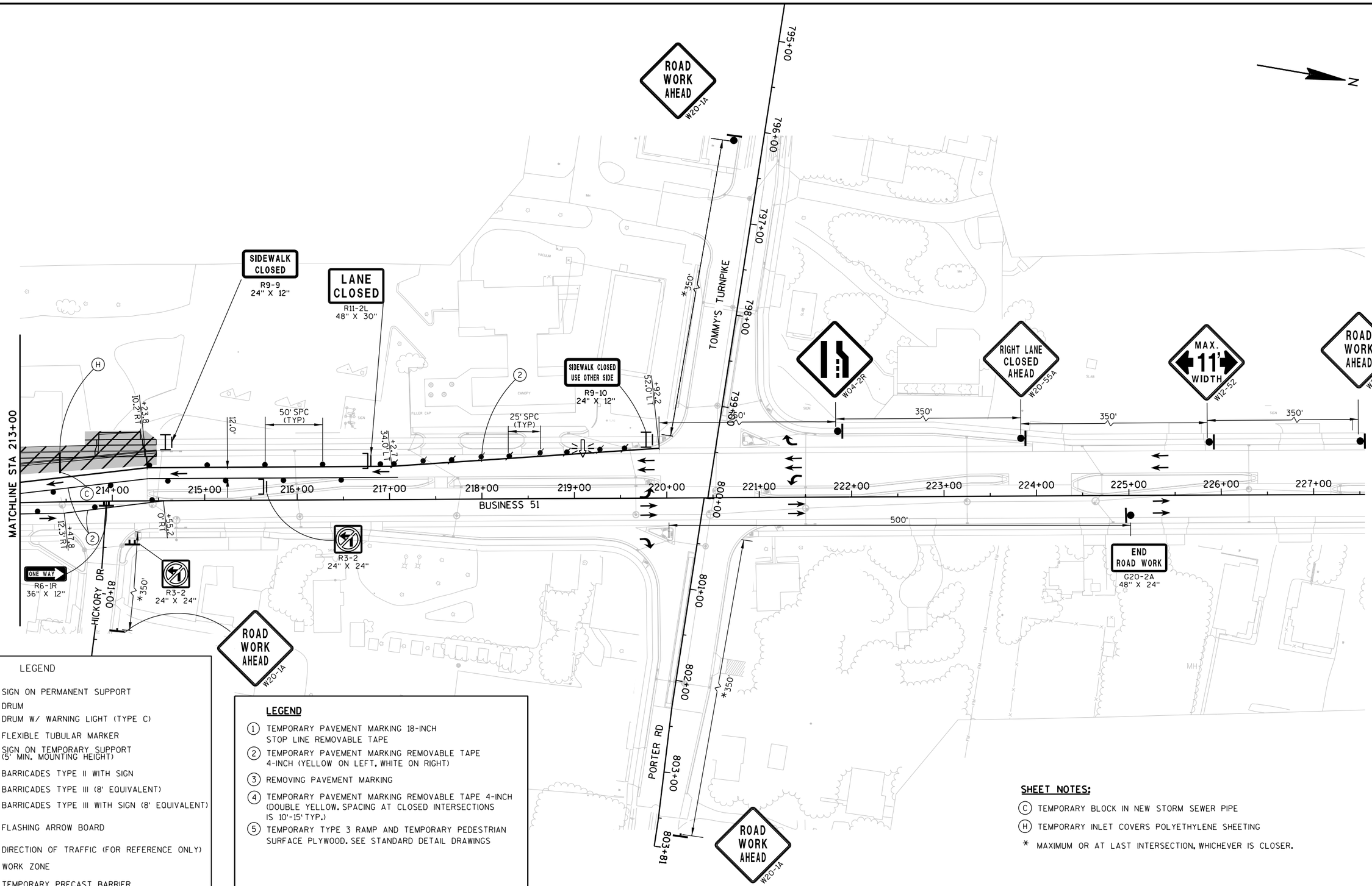
(C) TEMPORARY BLOCK IN NEW STORM SEWER PIPE

(H) TEMPORARY INLET COVERS POLYETHYLENE SHEETING

* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 2	SHEET 91	E

2



LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

LEGEND

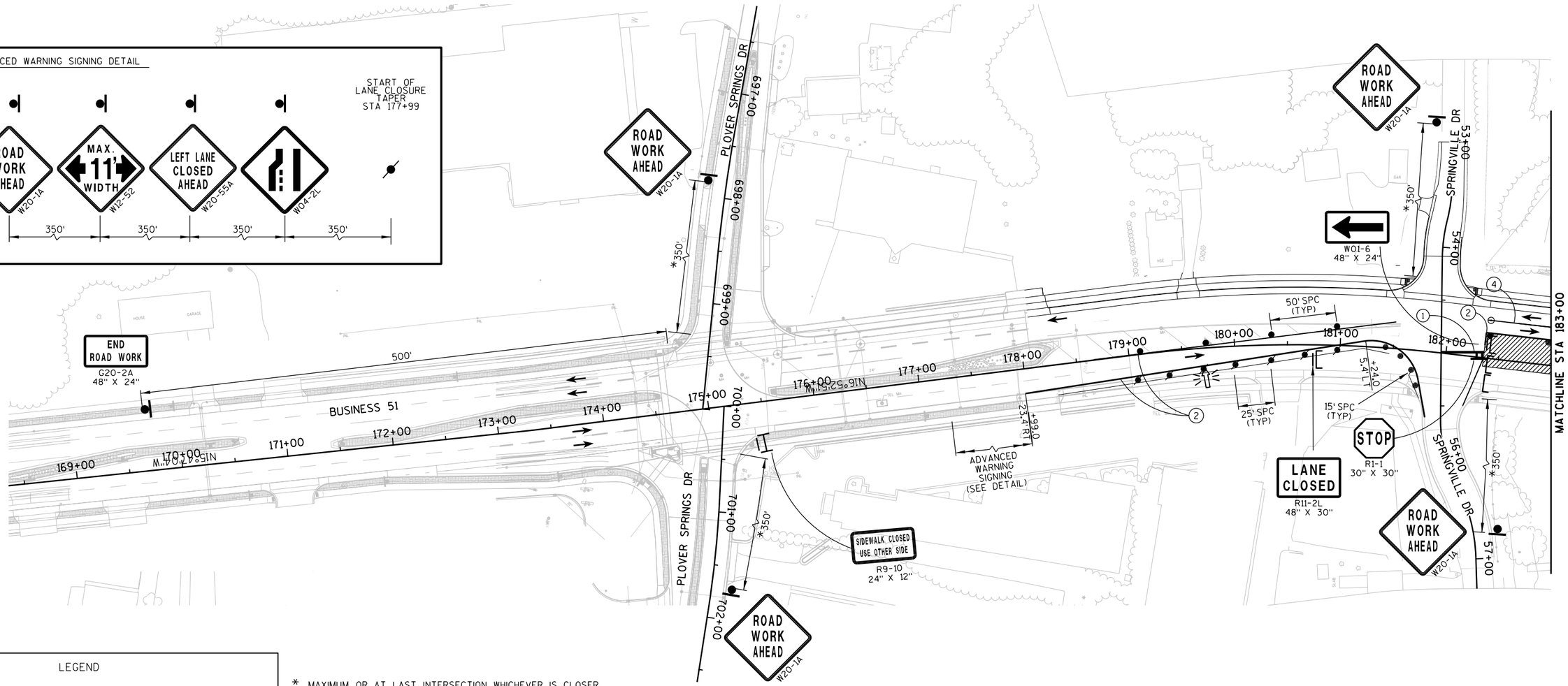
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4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW. SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRIAN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

SHEET NOTES:

- (C) TEMPORARY BLOCK IN NEW STORM SEWER PIPE
- (H) TEMPORARY INLET COVERS POLYETHYLENE SHEETING
- * MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 2	SHEET 92	E

2



LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

LEGEND

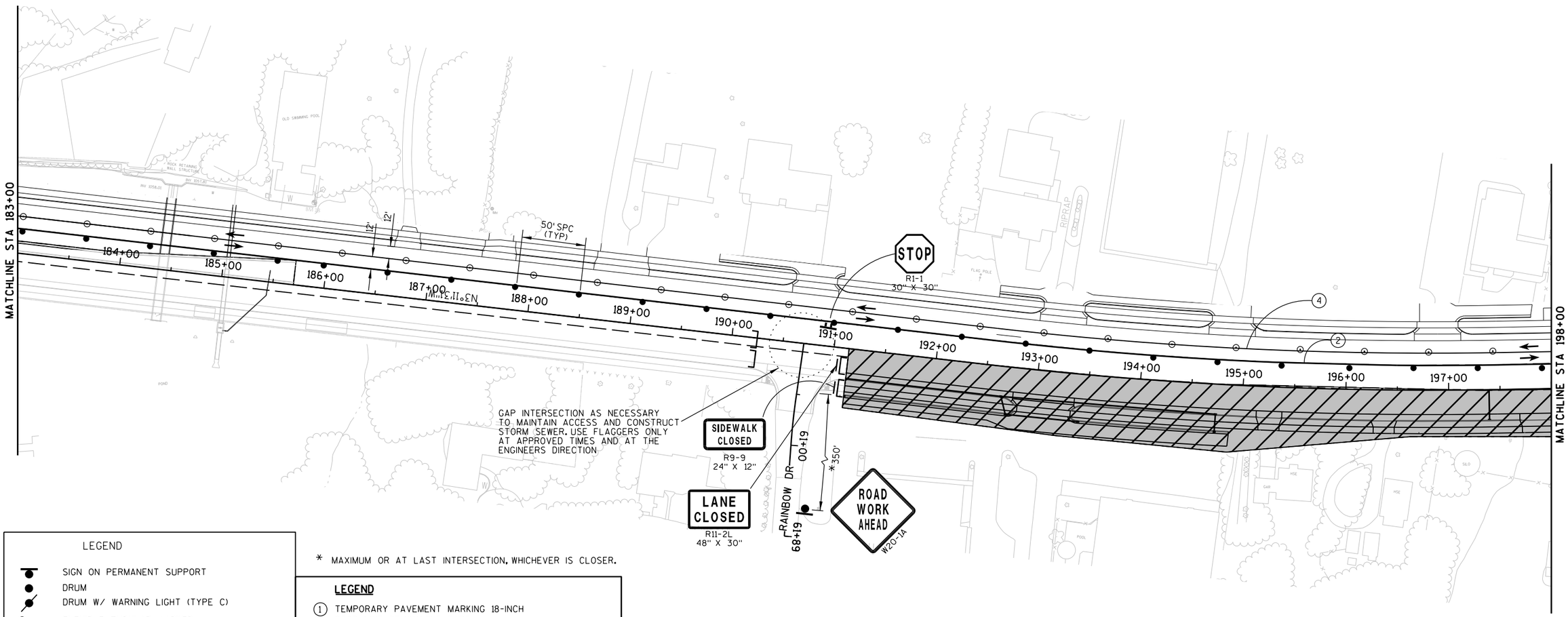
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4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW. SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRIAN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

STAGE 3 DESCRIPTION

TRAFFIC ON BUSINESS 51 SHALL BE REDUCED TO ONE LANE IN EACH DIRECTION BETWEEN SPRINGVILLE DR. AND HICKORY DR. TRAFFIC SHALL UTILIZE THE SOUTHBOUND LANES OF BUSINESS 51. MAINTAIN PEDESTRIAN ACCESS ON THE WEST SIDE OF BUSINESS 51. THE PURPOSE OF THIS STAGE IS TO REMOVE THE TEMPORARY WIDENING PAVEMENT FROM STATION 191+15 TO 197+00 AND CONSTRUCT THE NORTHBOUND LANES OF BUSINESS 51 FROM RAINBOW DR TO STA 211+58. CONSTRUCT STORM SEWER IN THE MEDIAN AREA OF BUSINESS 51.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 3	SHEET 93	E

2



LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

LEGEND

1. TEMPORARY PAVEMENT MARKING 18-INCH STOP LINE REMOVABLE TAPE
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW ON LEFT, WHITE ON RIGHT)
3. REMOVING PAVEMENT MARKING
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW. SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRAIN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

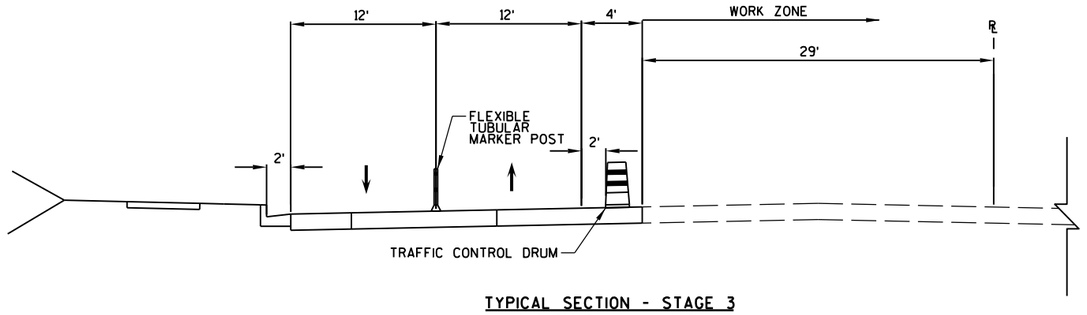
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 3	SHEET 94	E

2

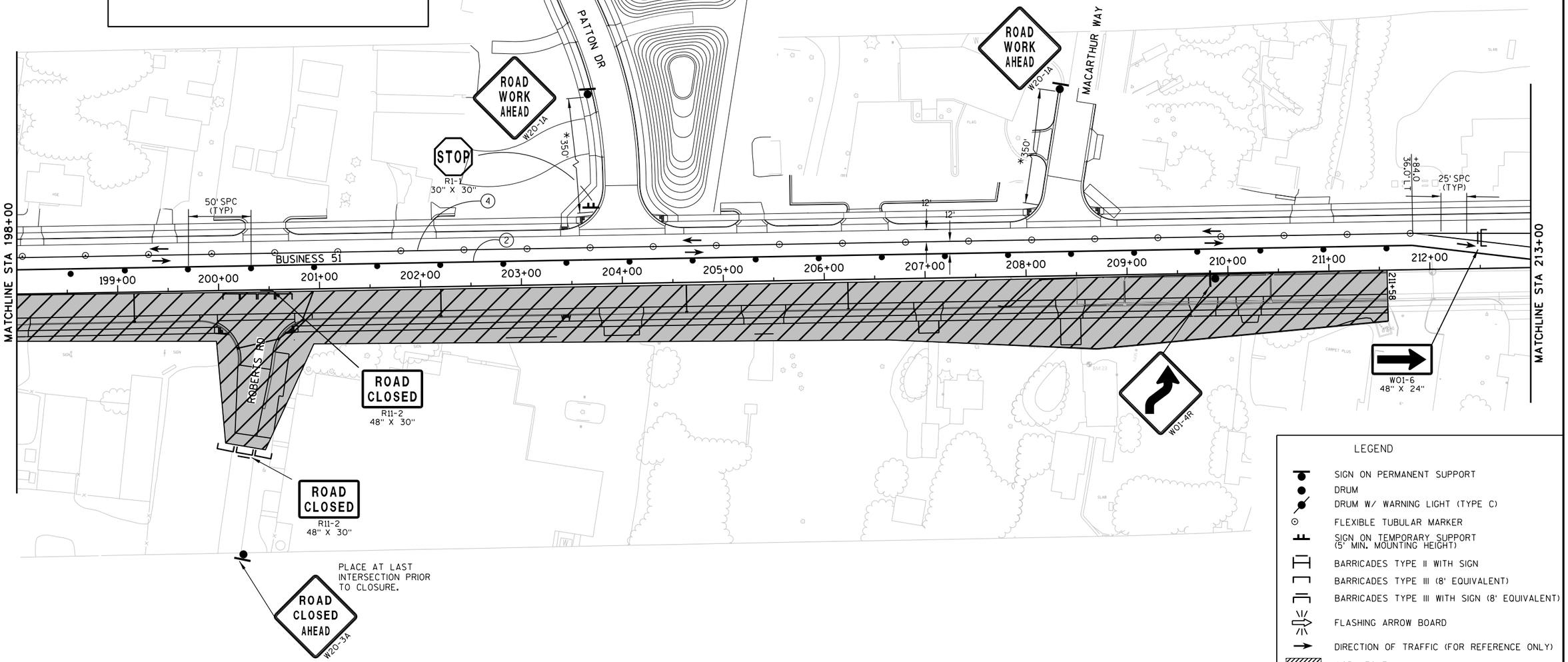
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LEGEND

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3. REMOVING PAVEMENT MARKING
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW, SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRAIN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS



TYPICAL SECTION - STAGE 3
BUSINESS 51 LOOKING NORTH
APPROX. STA 206+00



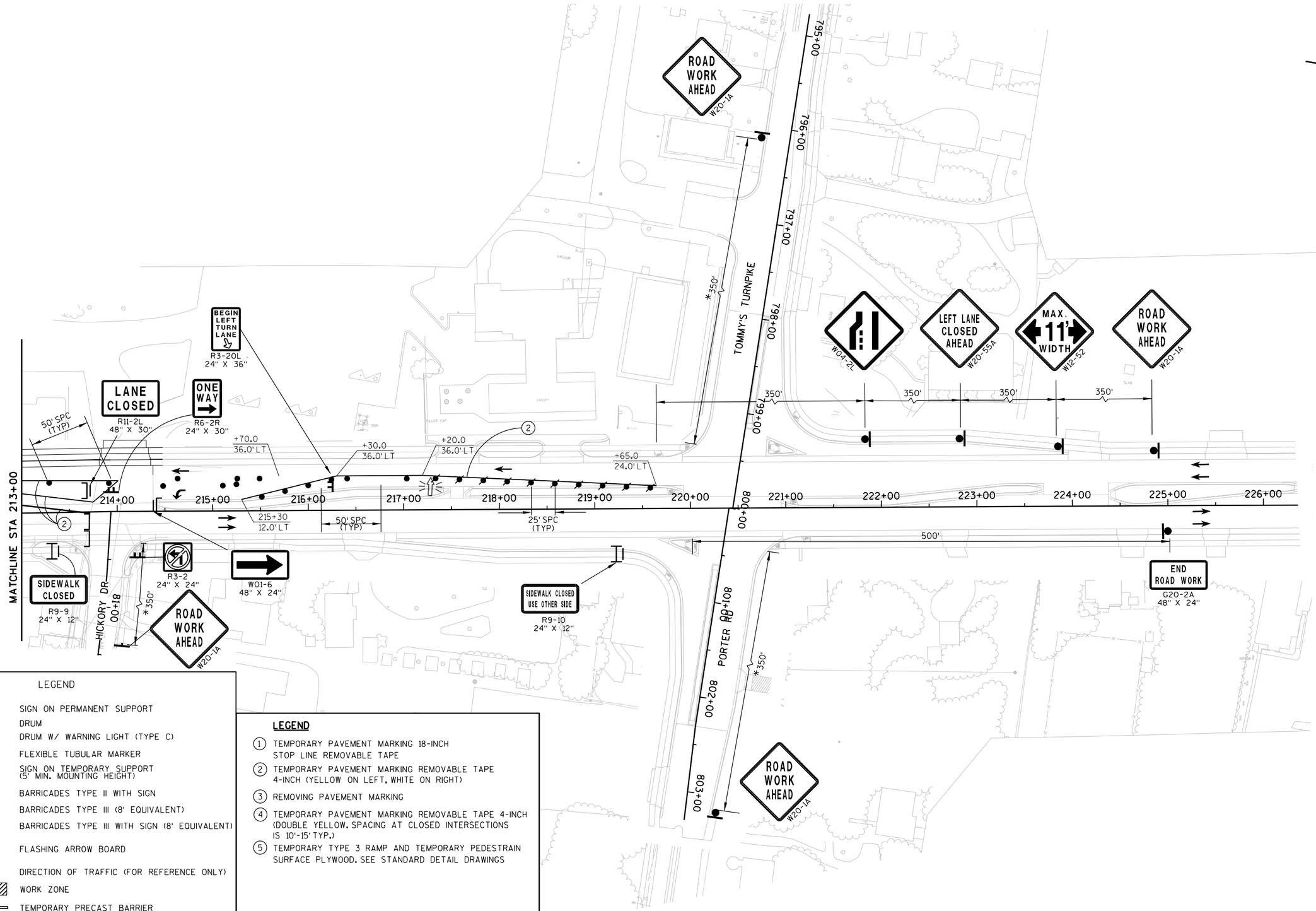
LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 3	SHEET 95	E

2



LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

LEGEND

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3. REMOVING PAVEMENT MARKING
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW. SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRAIN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 3	SHEET 96	E

2

ADVANCED WARNING SIGNING DETAIL

START OF LANE CLOSURE TAPER STA 168+50

ROAD WORK AHEAD W20-1A — 350' — LEFT LANE CLOSED AHEAD W20-55A — 350' — W04-2L — 350'

ROAD WORK AHEAD W20-1A — *350'

BEGIN LEFT TURN LANE R3-20L 24" X 36"

LANE CLOSED R11-2L 48" X 30"

END ROAD WORK G20-2A 48" X 24"

50' SPC (TYP) — 500'

BUSINESS 51

25' SPC (TYP)

12.0'

+44.4 18.0' LT

+94.4 36.0' LT

50' SPC (TYP)

15' SPC (TYP)

25' SPC (TYP)

ADVANCED WARNING SIGNING (SEE DETAIL)

+50.0 0' RT

+94.7 11.6' RT

+69.7 11.1' RT

PLOVER SPRINGS DR

168+00 169+00 170+00 171+00 172+00 173+00 174+00 175+00 176+00 177+00 178+00 179+00 180+00 181+00 182+00 183+00

697+00 698+00 699+00 700+00 701+00 702+00 703+00

ROAD WORK AHEAD W20-1A — *350' — PLOVER SPRINGS DR

STOP R1-1 30" X 30"

R3-2 24" X 24"

ONE WAY R6-2R 24" X 30"

SPRINGVILLE DR

53+00 54+00 56+00 57+00

ROAD WORK AHEAD W20-1A — *350' — SPRINGVILLE DR

STOP R1-1 30" X 30"

R3-2 24" X 24"

ONE WAY R6-2R 24" X 30"

ROAD WORK AHEAD W20-1A — *350' — PLOVER SPRINGS DR

N

LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

LEGEND

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5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRAIN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

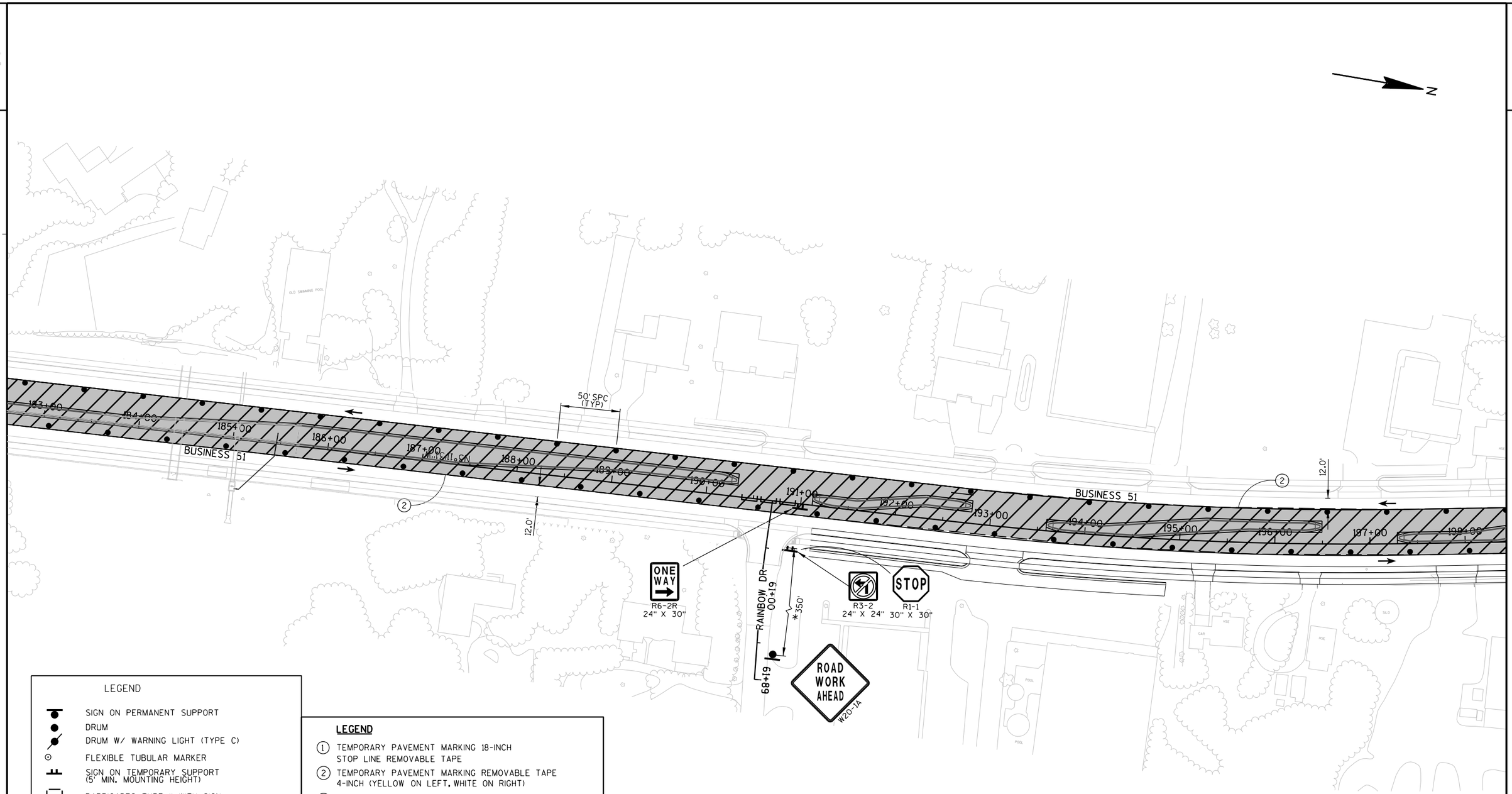
STAGE 4 DESCRIPTION

TRAFFIC ON BUSINESS 51 SHALL BE REDUCED TO ONE LANE IN EACH DIRECTION BETWEEN PLOVER SPRINGS DR. AND PORTER RD. TRAFFIC SHALL UTILIZE THE OUTSIDE LANES OF BUSINESS 51. PEDESTRIAN ACCESS WILL BE MAINTAINED ON BOTH SIDES OF BUSINESS 51. THE PURPOSE OF THIS STAGE IS TO CONSTRUCT THE MEDIAN ISLANDS.

* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 4	SHEET 97	E

2



LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
- BARRICADES TYPE III WITH SIGN (8' EQUIVALENT)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

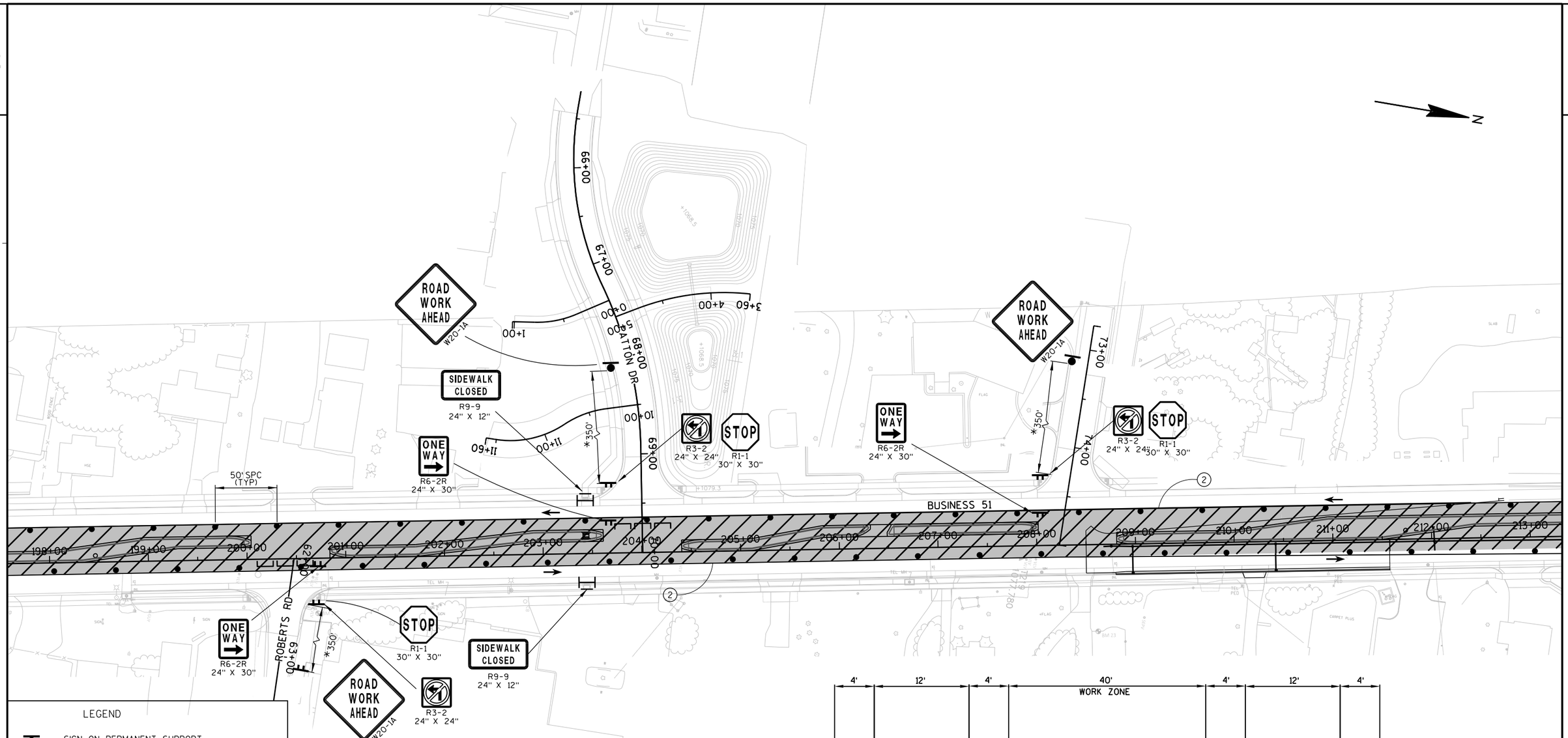
LEGEND

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2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW ON LEFT, WHITE ON RIGHT)
3. REMOVING PAVEMENT MARKING
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW. SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRAIN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 4	SHEET 98	E

2



LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
- BARRICADES TYPE III (8' EQUIVALENT)
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- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
- WORK ZONE
- TEMPORARY PRECAST BARRIER

LEGEND

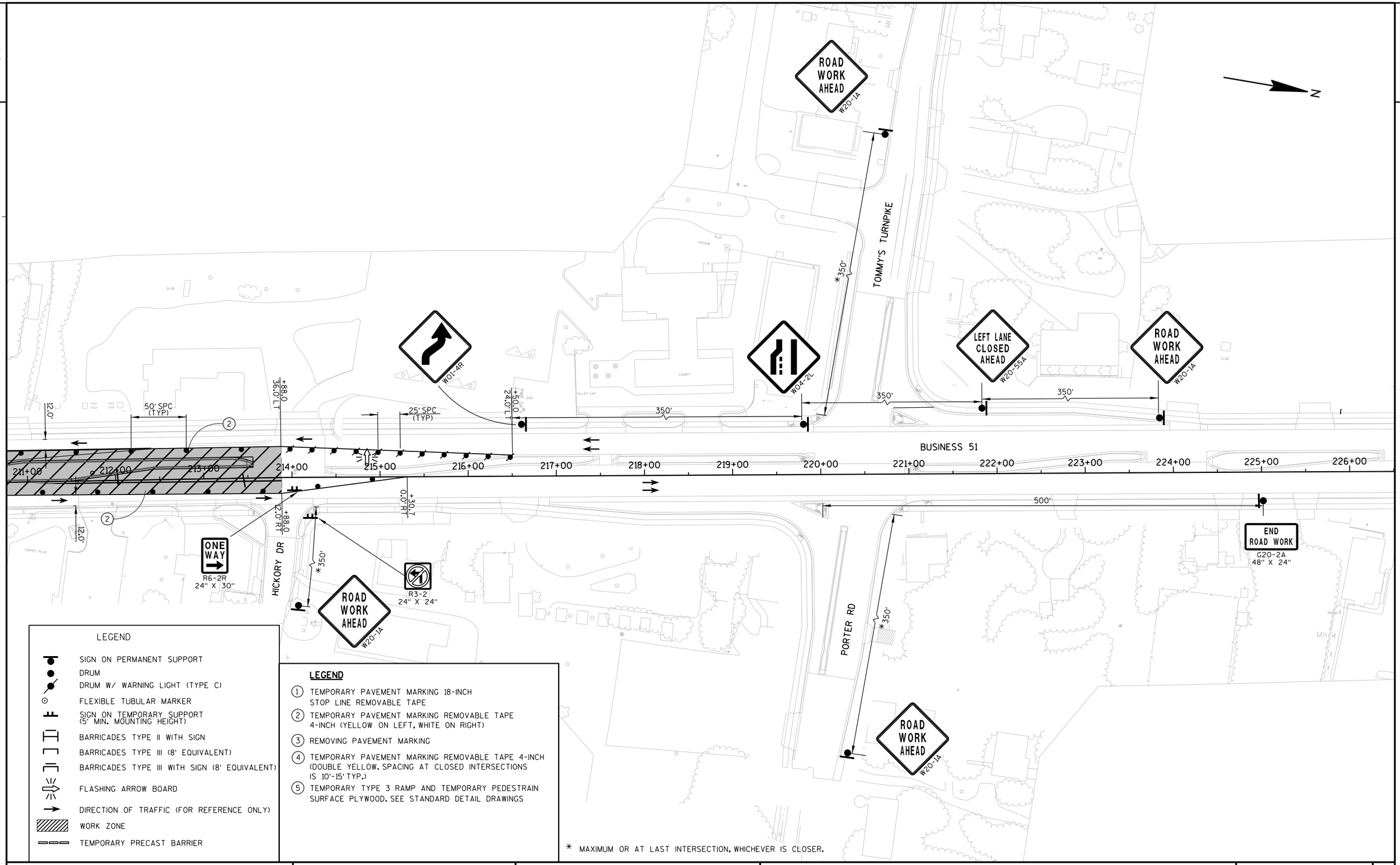
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4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW. SPACING AT CLOSED INTERSECTIONS IS 10'-15' TYP.)
5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRAIN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

TYPICAL SECTION – STAGE 4
BUSINESS 51 LOOKING NORTH
APPROX. STA 206+00

* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 4	SHEET 99	E

2



LEGEND

- SIGN ON PERMANENT SUPPORT
- DRUM
- DRUM W/ WARNING LIGHT (TYPE C)
- FLEXIBLE TUBULAR MARKER
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- BARRICADES TYPE II WITH SIGN
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- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC (FOR REFERENCE ONLY)
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- TEMPORARY PRECAST BARRIER

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5. TEMPORARY TYPE 3 RAMP AND TEMPORARY PEDESTRAIN SURFACE PLYWOOD. SEE STANDARD DETAIL DRAWINGS

* MAXIMUM OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	TRAFFIC CONTROL STAGE 4	SHEET 100	E

2

PLOVER SPRINGS DRIVE

PC: 697+38.04

PT: 698+53.16

PC: 700+86.78

BP: 700+00.00

EP: 700+00.00

BEGIN PROJECT
STA 178+07.46

N16° 52' 51"W

PC: 179+08.82

PI STA = 180+52.86
Y = 183846.217
X = 172662.678
DELTA = 13°41'20"
D = 2°23'14"
T = 144.04'
L = 286.70'
R = 1200.00'
PC STA = 179+08.82
PT STA = 181+95.52

STA 181+95.52 BUSINESS 51 =
STA 55+00.00 SPRINGVILLE DRIVE
Y = 183990.061
X = 172654.656

SPRINGVILLE DRIVE

N80° 50' 20"E

BP: 52+98.16

PC: 53+35.98

PRC: 53+74.51

PT: 54+10.40

N80° 55' 35"E

PI: 55+00.00

N80° 46' 35"E

PC: 55+63.13

PT: 181+95.52

PRC: 56+25.48

N78° 22' 52"E

PT: 56+98.60

EP: 57+28.20

SPRINGVILLE DRIVE WEST

PI STA = 53+55.34
Y = 183976.078
X = 172511.108
DELTA = 13°47'51"
D = 17°54'17"
T = 19.36'
L = 38.53'
R = 160.00'
PC STA = 53+35.98
PT STA = 53+74.51

PI STA = 53+92.54
Y = 183973.056
X = 172548.378
DELTA = 13°42'36"
D = 19°05'54"
T = 18.03'
L = 35.89'
R = 150.00'
PC STA = 53+74.51
PT STA = 54+10.40

SPRINGVILLE DRIVE EAST

PI STA = 55+94.97
Y = 184005.252
X = 172748.403
DELTA = 28°34'42"
D = 22°55'06"
T = 31.84'
L = 62.35'
R = 125.00'
PC STA = 55+63.13
PT STA = 56+25.48

PI STA = 56+62.69
Y = 184047.573
X = 172802.958
DELTA = 26°10'59"
D = 17°54'18"
T = 37.21'
L = 73.12'
R = 160.00'
PC STA = 56+25.48
PT STA = 56+98.60

BUSINESS 51

N3° 11' 31"W

N10° 44' 44"W

STA 190+70.19 BUSINESS 51 =
STA 60+00.00 RAINBOW DRIVE
Y = 184863.339
X = 172605.956

PC: 192+55.67

PT: 197+47.42

BP: 60+00.00

BP: 62+00.00

N88° 28' 09"E

PC: 60+50.60

PT: 61+00.75

RAINBOW DRIVE

N84° 21' 53"E

EP: 61+88.71

RAINBOW DRIVE

PI STA = 60+75.68
Y = 184865.360
X = 172681.614
DELTA = 4°06'17"
D = 4°05'33"
T = 25.08'
L = 50.15'
R = 700.00'
PC STA = 60+50.60
PT STA = 61+00.75

PI STA = 195+01.90
Y = 185294.381
X = 172581.919
DELTA = 7°33'13"
D = 0°46'05"
T = 246.23'
L = 491.75'
R = 3730.00'
PC STA = 192+55.67
PT STA = 197+47.42

ROBERTS ROAD

N88° 24' 26"E

EP: 64+02.37

STA 200+47.58 BUSINESS 51 =
STA 62+00.00 ROBERTS ROAD
Y = 185831.197
X = 172480.045

PI STA = 10+43.65
Y = 186106.077
X = 172280.264
DELTA = 13°05'58"
D = 28°56'14"
T = 11.37'
L = 22.63'

S0° 05' 10"E

PALTON DRIVE

N79° 15' 16"E

PC: 11+14.94

EP: 11+60.27

PT: 11+82.32

PC: 10+77.55

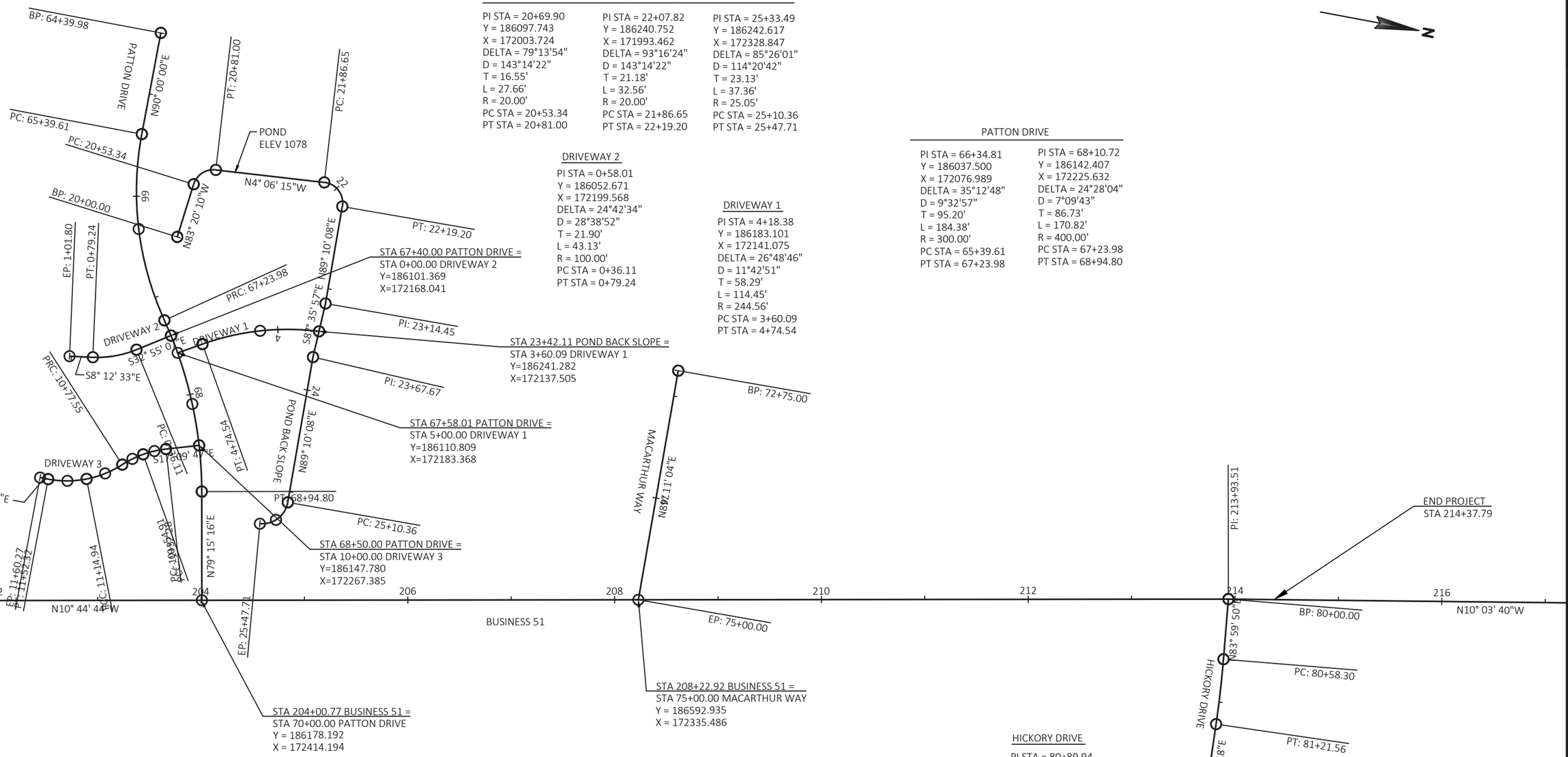
PC: 10+96.11

N09° 47' 41"E

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	ALIGNMENT DIAGRAM	SHEET 101 E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\027201 AD.DWG
LAYOUT NAME - 027201

PLOT DATE : 10/23/2020 7:34 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:100 FT



POND (ELEV 1078)

PI STA = 20+69.90	PI STA = 22+07.82	PI STA = 25+33.49
Y = 186097.743	Y = 186240.752	Y = 186242.617
X = 172003.724	X = 171993.462	X = 172328.847
DELTA = 79°13'54"	DELTA = 93°16'24"	DELTA = 85°26'01"
D = 143°14'22"	D = 143°14'22"	D = 114°20'42"
T = 16.55'	T = 21.18'	T = 23.13'
L = 27.66'	L = 32.56'	L = 37.36'
R = 20.00'	R = 20.00'	R = 25.05'
PC STA = 20+53.34	PC STA = 21+86.65	PC STA = 25+10.36
PT STA = 20+81.00	PT STA = 22+19.20	PT STA = 25+47.71

DRIVEWAY 2

PI STA = 0+58.01
Y = 186052.671
X = 172199.568
DELTA = 24°42'34"
D = 28°38'52"
T = 21.90'
L = 43.13'
R = 100.00'
PC STA = 0+36.11
PT STA = 0+79.24

DRIVEWAY 1

PI STA = 4+18.38
Y = 186183.101
X = 172141.075
DELTA = 26°48'46"
D = 11°42'51"
T = 58.29'
L = 114.45'
R = 244.56'
PC STA = 3+60.09
PT STA = 4+74.54

PATTON DRIVE

PI STA = 66+34.81	PI STA = 68+10.72
Y = 186037.500	Y = 186142.407
X = 172076.989	X = 172225.632
DELTA = 35°12'48"	DELTA = 24°28'04"
D = 9°32'57"	D = 7°09'43"
T = 95.20'	T = 86.73'
L = 184.38'	L = 170.82'
R = 300.00'	R = 400.00'
PC STA = 65+39.61	PC STA = 67+23.98
PT STA = 67+23.98	PT STA = 68+94.80

DRIVEWAY 3

PI STA = 10+43.65	PI STA = 10+66.28	PI STA = 10+96.47	PI STA = 11+33.85
Y = 186106.077	Y = 186086.441	Y = 186064.423	Y = 186029.272
X = 172280.264	X = 172291.721	X = 172312.515	X = 172326.520
DELTA = 13°05'58"	DELTA = 13°05'58"	DELTA = 21°38'16"	DELTA = 21°38'16"
D = 28°56'14"	D = 28°56'14"	D = 28°56'14"	D = 28°56'14"
T = 11.37'	T = 11.37'	T = 18.92'	T = 18.92'
L = 22.63'	L = 22.63'	L = 37.39'	L = 37.39'
R = 99.00'	R = 99.00'	R = 99.00'	R = 99.00'
PC STA = 10+32.28	PC STA = 10+54.91	PC STA = 10+77.55	PC STA = 11+14.94
PT STA = 10+54.91	PT STA = 10+77.55	PT STA = 11+14.94	PT STA = 11+52.32

HICKORY DRIVE

PI STA = 80+89.94
Y = 187162.933
X = 172318.545
DELTA = 3°37'28"
D = 2°51'53"
T = 31.64'
L = 63.26'
R = 1000.00'
PC STA = 80+58.30
PT STA = 81+21.56

831.197
480.045

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	ALIGNMENT DIAGRAM	SHEET 102	E

6414-00-79

Line	Item	Item Description	Unit	Total	Qty
0002	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000
0004	204.0100	Removing Concrete Pavement	SY	890.000	890.000
0006	204.0110	Removing Asphaltic Surface	SY	45.000	45.000
0008	204.0150	Removing Curb & Gutter	LF	7,720.000	7,720.000
0010	204.0155	Removing Concrete Sidewalk	SY	1,850.000	1,850.000
0012	204.0165	Removing Guardrail	LF	930.000	930.000
0014	204.0170	Removing Fence	LF	677.000	677.000
0016	204.0210	Removing Manholes	EACH	10.000	10.000
0018	204.0220	Removing Inlets	EACH	24.000	24.000
0020	204.0225	Removing Septic Tanks	EACH	1.000	1.000
0022	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	596.000	596.000
0024	204.0245	Removing Storm Sewer (size) 02. 18-Inch	LF	199.000	199.000
0026	204.0245	Removing Storm Sewer (size) 03. 24-Inch	LF	1,643.000	1,643.000
0028	204.0245	Removing Storm Sewer (size) 04. 36-Inch	LF	321.000	321.000
0030	204.0245	Removing Storm Sewer (size) 05. 42-Inch	LF	119.000	119.000
0032	204.0245	Removing Storm Sewer (size) 06. 6-Inch	LF	38.000	38.000
0034	204.9060.S	Removing (item description) 01. Water Level Staff Gauges	EACH	1.000	1.000
0042	204.9105.S	Removing (item description) 01. Primary Spillway Structure	LS	1.000	1.000
0044	204.9105.S	Removing (item description) 02. Sluice Gate Struture (Lake Drain)	LS	1.000	1.000
0046	205.0100	Excavation Common	CY	40,538.000	40,538.000
0048	205.0400	Excavation Marsh	CY	3,000.000	3,000.000
0050	206.2000	Excavation for Structures Culverts (structure) 01. C-49-24	LS	1.000	1.000
0052	206.5000	Cofferdams (structure) 01. Lake Drain	LS	1.000	1.000
0054	206.5000	Cofferdams (structure) 02. Primary Spillway	LS	1.000	1.000
0056	209.2100	Backfill Granular Grade 2	CY	2,730.000	2,730.000
0058	213.0100	Finishing Roadway (project) 01. 6414-00-79	EACH	1.000	1.000
0060	305.0110	Base Aggregate Dense 3/4-Inch	TON	263.000	263.000
0062	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	20,919.000	20,919.000
0064	310.0110	Base Aggregate Open-Graded	TON	200.000	200.000
0066	313.0115	Pit Run	CY	2,360.000	2,360.000
0068	405.1000	Stamping Colored Concrete	CY	743.000	743.000
0070	415.0090	Concrete Pavement 9-Inch	SY	25,764.000	25,764.000
0072	415.0210	Concrete Pavement Gaps	EACH	10.000	10.000
0074	415.4100	Concrete Pavement Joint Filling	SY	30,010.000	30,010.000
0076	415.5110.S	Concrete Pavement Joint Layout	LS	1.000	1.000
0078	416.0160	Concrete Driveway 6-Inch	SY	935.000	935.000
0080	416.0260	Concrete Driveway HES 6-Inch	SY	915.000	915.000

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Line	Item	Item Description	Unit	Total	Qty
0082	416.0610	Drilled Tie Bars	EACH	175.000	175.000
0084	416.0620	Drilled Dowel Bars	EACH	120.000	120.000
0086	450.4000	HMA Cold Weather Paving	TON	200.000	200.000
0088	455.0605	Tack Coat	GAL	176.000	176.000
0090	460.2000	Incentive Density HMA Pavement	DOL	430.000	430.000
0092	460.6224	HMA Pavement 4 MT 58-28 S	TON	665.000	665.000
0094	465.0110	Asphaltic Surface Patching	TON	35.000	35.000
0096	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	365.000	365.000
0098	465.0125	Asphaltic Surface Temporary	TON	1,566.000	1,566.000
0100	465.0310	Asphaltic Curb	LF	720.000	720.000
0102	504.2000.S	Precast Concrete Box Culvert (ft X ft) 01. 4 ft X 8 ft	LF	128.000	128.000
0104	511.1200	Temporary Shoring (structure) 01. C-49-24	SF	300.000	300.000
0106	511.1300	Temporary Shoring (location) 02. Lake Drain	SF	480.000	480.000
0108	516.0500	Rubberized Membrane Waterproofing	SY	9.000	9.000
0110	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	2.000	2.000
0112	520.3424	Culvert Pipe Class III-A Non-metal 24-Inch	LF	56.000	56.000
0114	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	1.000	1.000
0116	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	3.000	3.000
0118	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000
0120	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	1.000	1.000
0122	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	2.000	2.000
0124	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	6,330.000	6,330.000
0126	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	2,197.000	2,197.000
0128	602.0405	Concrete Sidewalk 4-Inch	SF	60,445.000	60,445.000
0130	602.0415	Concrete Sidewalk 6-Inch	SF	40,136.000	40,136.000
0132	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	264.000	264.000
0134	603.8000	Concrete Barrier Temporary Precast Delivered	LF	1,424.000	1,424.000
0136	603.8125	Concrete Barrier Temporary Precast Installed	LF	1,484.000	1,484.000
0138	606.0100	Riprap Light	CY	25.000	25.000
0140	606.0200	Riprap Medium	CY	622.000	622.000
0142	606.0300	Riprap Heavy	CY	3.000	3.000
0144	608.0342	Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	LF	79.000	79.000
0146	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	1,927.000	1,927.000
0148	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-	LF	1,526.000	1,526.000

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Line	Item	Item Description	Unit	Total	Qty
		Inch			
0150	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	2,387.000	2,387.000
0152	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	311.000	311.000
0154	608.0436	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	LF	359.000	359.000
0156	608.0442	Storm Sewer Pipe Reinforced Concrete Class IV 42-Inch	LF	142.000	142.000
0158	611.0530	Manhole Covers Type J	EACH	22.000	22.000
0160	611.0609	Inlet Covers Type B-A	EACH	1.000	1.000
0162	611.0624	Inlet Covers Type H	EACH	63.000	63.000
0164	611.0639	Inlet Covers Type H-S	EACH	27.000	27.000
0166	611.0642	Inlet Covers Type MS	EACH	2.000	2.000
0168	611.0651	Inlet Covers Type S	EACH	3.000	3.000
0170	611.2004	Manholes 4-FT Diameter	EACH	10.000	10.000
0172	611.2005	Manholes 5-FT Diameter	EACH	7.000	7.000
0174	611.2006	Manholes 6-FT Diameter	EACH	2.000	2.000
0176	611.2007	Manholes 7-FT Diameter	EACH	3.000	3.000
0178	611.3004	Inlets 4-FT Diameter	EACH	15.000	15.000
0180	611.3230	Inlets 2x3-FT	EACH	69.000	69.000
0182	611.3901	Inlets Median 1 Grate	EACH	2.000	2.000
0184	611.8110	Adjusting Manhole Covers	EACH	3.000	3.000
0186	611.8120.S	Cover Plates Temporary	EACH	5.000	5.000
0188	611.9710	Salvaged Inlet Covers	EACH	1.000	1.000
0190	611.9800.S	Pipe Grates	EACH	3.000	3.000
0194	614.0360	Steel Plate Beam Guard Temporary	LF	60.000	60.000
0196	614.0920	Salvaged Rail	LF	60.000	60.000
0198	616.0206	Fence Chain Link 6-FT	LF	796.000	796.000
0200	616.0329	Gates Chain Link (width) 01. 4-FT	EACH	1.000	1.000
0202	616.0404	Fence Chain Link Salvaged 4-FT	LF	28.000	28.000
0204	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6414-00-79	EACH	1.000	1.000
0206	619.1000	Mobilization	EACH	0.960	0.960
0208	620.0300	Concrete Median Sloped Nose	SF	882.000	882.000
0210	621.0100	Landmark Reference Monuments	EACH	3.000	3.000
0212	624.0100	Water	MGAL	275.000	275.000
0214	625.0100	Topsoil	SY	15,578.000	15,578.000
0216	627.0200	Mulching	SY	7,725.000	7,725.000
0218	628.1504	Silt Fence	LF	1,488.000	1,488.000
0220	628.1520	Silt Fence Maintenance	LF	1,488.000	1,488.000

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Line	Item	Item Description	Unit	Total	Qty
0222	628.1905	Mobilizations Erosion Control	EACH	11.000	11.000
0224	628.1910	Mobilizations Emergency Erosion Control	EACH	8.000	8.000
0226	628.2006	Erosion Mat Urban Class I Type A	SY	8,486.000	8,486.000
0228	628.7005	Inlet Protection Type A	EACH	98.000	98.000
0230	628.7010	Inlet Protection Type B	EACH	3.000	3.000
0232	628.7015	Inlet Protection Type C	EACH	77.000	77.000
0234	628.7020	Inlet Protection Type D	EACH	21.000	21.000
0236	628.7504	Temporary Ditch Checks	LF	85.000	85.000
0238	628.7570	Rock Bags	EACH	40.000	40.000
0240	629.0210	Fertilizer Type B	CWT	0.500	0.500
0242	630.0140	Seeding Mixture No. 40	LB	431.000	431.000
0244	630.0200	Seeding Temporary	LB	100.000	100.000
0246	630.0500	Seed Water	MGAL	332.000	332.000
0248	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	22.000	22.000
0250	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	4.000	4.000
0252	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	18.000	18.000
0254	634.0816	Posts Tubular Steel 2x2-Inch X 16-FT	EACH	2.000	2.000
0256	637.2210	Signs Type II Reflective H	SF	180.080	180.080
0258	637.2230	Signs Type II Reflective F	SF	67.250	67.250
0260	638.2102	Moving Signs Type II	EACH	1.000	1.000
0262	638.2602	Removing Signs Type II	EACH	15.000	15.000
0264	638.3000	Removing Small Sign Supports	EACH	12.000	12.000
0266	642.5401	Field Office Type D	EACH	1.000	1.000
0268	643.0300	Traffic Control Drums	DAY	39,339.000	39,339.000
0270	643.0410	Traffic Control Barricades Type II	DAY	1,386.000	1,386.000
0272	643.0420	Traffic Control Barricades Type III	DAY	7,031.000	7,031.000
0274	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	312.000	312.000
0276	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	312.000	312.000
0278	643.0705	Traffic Control Warning Lights Type A	DAY	9,936.000	9,936.000
0280	643.0715	Traffic Control Warning Lights Type C	DAY	7,790.000	7,790.000
0282	643.0800	Traffic Control Arrow Boards	DAY	522.000	522.000
0284	643.0900	Traffic Control Signs	DAY	17,857.000	17,857.000
0286	643.1050	Traffic Control Signs PCMS	DAY	78.000	78.000
0288	643.5000	Traffic Control	EACH	1.000	1.000
0290	644.1410	Temporary Pedestrian Surface Asphalt	SF	22,908.000	22,908.000
0292	644.1420	Temporary Pedestrian Surface Plywood	SF	210.000	210.000
0294	644.1601	Temporary Pedestrian Curb Ramp	DAY	194.000	194.000
0296	644.1810	Temporary Pedestrian Barricade	LF	1,400.000	1,400.000
0298	645.0120	Geotextile Type HR	SY	1,350.000	1,350.000
0300	645.0130	Geotextile Type R	SY	150.000	150.000

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Line	Item	Item Description	Unit	Total	Qty
0302	646.1020	Marking Line Epoxy 4-Inch	LF	49,984.000	49,984.000
0304	646.3020	Marking Line Epoxy 8-Inch	LF	8,184.000	8,184.000
0306	646.5020	Marking Arrow Epoxy	EACH	123.000	123.000
0308	646.5120	Marking Word Epoxy	EACH	17.000	17.000
0310	646.5220	Marking Symbol Epoxy	EACH	15.000	15.000
0312	646.5320	Marking Railroad Crossings Epoxy	EACH	4.000	4.000
0314	646.6120	Marking Stop Line Epoxy 18-Inch	LF	904.000	904.000
0316	646.7120	Marking Diagonal Epoxy 12-Inch	LF	315.000	315.000
0318	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	5,912.000	5,912.000
0320	646.8120	Marking Curb Epoxy	LF	3,171.000	3,171.000
0322	646.8220	Marking Island Nose Epoxy	EACH	92.000	92.000
0324	646.9000	Marking Removal Line 4-Inch	LF	2,523.000	2,523.000
0326	649.0105	Temporary Marking Line Paint 4-Inch	LF	10,825.000	10,825.000
0328	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	46,825.000	46,825.000
0330	649.0805	Temporary Marking Stop Line Paint 18-Inch	LF	62.000	62.000
0332	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	310.000	310.000
0334	650.4000	Construction Staking Storm Sewer	EACH	148.000	148.000
0336	650.4500	Construction Staking Subgrade	LF	12,996.000	12,996.000
0338	650.5000	Construction Staking Base	LF	1,957.000	1,957.000
0340	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	2,195.000	2,195.000
0342	650.6000	Construction Staking Pipe Culverts	EACH	1.000	1.000
0344	650.6500	Construction Staking Structure Layout (structure) 01. C-49-24	LS	1.000	1.000
0346	650.7000	Construction Staking Concrete Pavement	LF	7,391.000	7,391.000
0348	650.8500	Construction Staking Electrical Installations (project) 01. 6414-00-79	LS	1.000	1.000
0350	650.9910	Construction Staking Supplemental Control (project) 01. 6414-00-79	LS	1.000	1.000
0352	650.9920	Construction Staking Slope Stakes	LF	12,996.000	12,996.000
0354	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	3,740.000	3,740.000
0356	654.0106	Concrete Bases Type 6	EACH	21.000	21.000
0358	655.0610	Electrical Wire Lighting 12 AWG	LF	5,922.000	5,922.000
0360	655.0625	Electrical Wire Lighting 6 AWG	LF	19,315.000	19,315.000
0362	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	21.000	21.000
0364	657.0327	Poles Type 6-Aluminum	EACH	21.000	21.000
0366	657.0605	Luminaire Arms Single Member 4 1/2-Inch Clamp 4-FT	EACH	42.000	42.000
0368	659.1115	Luminaires Utility LED A	EACH	42.000	42.000
0370	690.0150	Sawing Asphalt	LF	1,787.000	1,787.000
0372	690.0250	Sawing Concrete	LF	208.000	208.000
0374	715.0415	Incentive Strength Concrete Pavement	DOL	8,096.000	8,096.000

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Line	Item	Item Description	Unit	Total	Qty
0376	715.0710	Optimized Aggregate Gradation Incentive	DOL	10,882.000	10,882.000
0378	740.0440	Incentive IRI Ride	DOL	2,748.000	2,748.000
0380	999.1000.S	Seismograph	LS	1.000	1.000
0382	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000
0384	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,980.000	1,980.000
0386	SPV.0030	Special 01. Fertilizer for Lawn Type Turf	CWT	9.100	9.100
0388	SPV.0035	Special 01. Mud Slab	CY	17.000	17.000
0390	SPV.0060	Special 01. Grit Chamber Type A	EACH	1.000	1.000
0392	SPV.0060	Special 02. Grit Chamber Type B	EACH	1.000	1.000
0394	SPV.0060	Special 03. Grit Chamber Type C	EACH	2.000	2.000
0396	SPV.0060	Special 04. Inlets 5-FT Diameter	EACH	1.000	1.000
0398	SPV.0060	Special 05. Inlets 6-FT Diameter	EACH	1.000	1.000
0400	SPV.0060	Special 06. Inlets 8-FT diameter	EACH	2.000	2.000
0402	SPV.0060	Special 07. Connecting to Existing Structures	EACH	3.000	3.000
0404	SPV.0060	Special 08. Temporary Block Storm Sewer	EACH	11.000	11.000
0406	SPV.0060	Special 09. Bentonite Anti-Seepage Collar	EACH	2.000	2.000
0408	SPV.0060	Special 10. Galvanized Steel Trash Guards	EACH	1.000	1.000
0410	SPV.0060	Special 11. Water Level Staff Gauges	EACH	1.000	1.000
0458	SPV.0060	Special 35. Existing Grit Chamber Preparation and Traffic Control	EACH	6.000	6.000
0460	SPV.0060	Special 36. Existing Grit Chamber Tie-bar Instillation	EACH	38.000	38.000
0462	SPV.0075	Special 01. Street Sweeping	HRS	80.000	80.000
0464	SPV.0090	Special 01. Concrete Curb & Gutter Integral 30-Inch Type A	LF	6,215.000	6,215.000
0466	SPV.0090	Special 02. Concrete Curb & Gutter 24-Inch Type D	LF	22.000	22.000
0468	SPV.0090	Special 03. Concrete Curb & Gutter Cure & Seal Treatment	LF	14,764.000	14,764.000
0470	SPV.0090	Special 04. Railing	LF	32.000	32.000
0472	SPV.0090	Special 05. UV GRP CIPP 36-Inch	LF	243.000	243.000
0474	SPV.0090	Special 06. UV GRP CIPP 54-Inch	LF	350.000	350.000
0476	SPV.0090	Special 07. UV GRP CIPP 42-Inch Lake Drain	LF	97.000	97.000
0492	SPV.0105	Special 01. Construction Staking Infiltration Basin	LS	1.000	1.000
0494	SPV.0105	Special 02. Partially Removing Vault Structure Private Supply Line	LS	1.000	1.000
0496	SPV.0105	Special 03. Primary Spillway Structure	LS	1.000	1.000
0498	SPV.0105	Special 04. Operator Walkway Bridge	LS	1.000	1.000
0500	SPV.0105	Special 05. Access Stair	LS	1.000	1.000
0502	SPV.0105	Special 06. Sluice Gate Structure	LS	1.000	1.000
0504	SPV.0105	Special 07. Lake Drain Slide Gate (42-Inch)	LS	1.000	1.000
0506	SPV.0105	Special 08. Private Supply Slide Gate (12-Inch)	LS	1.000	1.000
0508	SPV.0105	Special 09. Private Supply Line	LS	1.000	1.000

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Line	Item	Item Description	Unit	Total	Qty
0510	SPV.0105	Special 10. Temporary Water Diverson	LS	1.000	1.000
0512	SPV.0105	Special 11. Remove, Salvage, and Reinstall Retaining Wall Stones	LS	1.000	1.000
0514	SPV.0105	Special 12. Culvert Downstream End Section C-49-24	LS	1.000	1.000
0516	SPV.0165	Special 01. Concrete Cure & Seal Treatment	SF	120,456.000	120,456.000
0518	SPV.0180	Special 01. Infiltration Basin Soil Mix	SY	900.000	900.000
0520	SPV.0180	Special 02. Preparing Topsoil for Lawn Type Turf	SY	14,781.000	14,781.000
0522	SPV.0195	Special 01. Backfill Granular Grade 2 Special	TON	17,830.000	17,830.000
0524	SPV.0195	Special 02. Hauling and Disposal of PAH Contaminated Sediment	TON	6,410.000	6,410.000

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REMOVING PAVEMENT

STATION	LOCATION	204.0100 SY	COMMENTS
STAGE 1A			
BUSINESS 51			
180+42.1	RT	30	DRIVEWAY APRON
STAGE 1A SUBTOTAL		30	
STAGE 2			
BUSINESS 51			
179+60.3	LT	40	DRIVEWAY & APRON
188+96.5	LT	20	DRIVEWAY
196+86.2	LT	19	DRIVEWAY APRON
198+08.0	LT	105	DRIVEWAY
199+38.7	LT	88	DRIVEWAY
201+76.8	LT	285	DRIVEWAY
205+47.1	LT	64	DRIVEWAY APRON & BEHIND SIDEWALK
206+35.0	LT	36	DRIVEWAY APRON
210+82.1	LT	32	DRIVEWAY APRON
212+49.1	LT	30	DRIVEWAY
MACARTHUR WAY			
73+65.7	LT	6	DRIVEWAY
STAGE 2 SUBTOTAL		725	
STAGE 3			
BUSINESS 51			
204+06.4	RT	17	DRIVEWAY APRON
205+39.4	RT	29	DRIVEWAY APRON & BEHIND SIDEWALK
207+02.7	RT	29	DRIVEWAY APRON & BEHIND SIDEWALK
208+43.4	RT	60	DRIVEWAY APRON & BEHIND SIDEWALK
STAGE 3 SUBTOTAL		135	
ITEM TOTAL		890	

REMOVING ASPHALTIC SURFACE

STATION	LOCATION	204.0110 SY
STAGE 1A		
BUSINESS 51		
128+62	LT & RT	45
STAGE 1A SUBTOTAL		45
ITEM TOTAL		45

REMOVING CURB & GUTTER

STATION	LOCATION	204.0150 LF	COMMENTS
STAGE 1			
BUSINESS 51			
181+83	LT	15	TEMP SIDEWALK
182+27	LT	15	TEMP SIDEWALK
182+75 - 184+30	LT	135	
188+20 - 188+40	LT	20	TEMP SIDEWALK
207+65	LT	10	PARKING LOT
208+15	LT	15	TEMP SIDEWALK
208+51	LT	15	TEMP SIDEWALK
STAGE 1 SUBTOTAL		225	
STAGE 1A			
BUSINESS 51			
179+00 - 182+14	RT	327	
180+13	RT	12	PARKING LOT
180+24	RT	24	PARKING LOT
182+46 - 190+51	RT	798	
190+87 - 197+41	RT	689	
205+50 - 210+50	RT	500	TEMP WIDENING
SPRINGVILLE DRIVE			
55+22 - 55+62	LT	40	
STAGE 1A SUBTOTAL		2390	
STAGE 2			
BUSINESS 51			
178+07 - 181+84	LT	404	
182+19 - 202+52	LT	2015	
202+80 - 208+11	LT	552	
208+49 - 213+89	LT	562	
212+79 - 213+81	LT	102	
MACARTHUR WAY			
72+94 - 74+71	LT & RT	440	PARKING LOT RT
STAGE 2 SUBTOTAL		4075	
STAGE 3			
BUSINESS 51			
197+41 - 200+20	RT	285	
200+54 - 205+50	RT	517	
210+50 - 211+58	RT	108	
STAGE 3 SUBTOTAL		910	
ITEM TOTAL		7600	

*ADDITIONAL QUANTITIES SHOWN IN STRUCTURE C-49-24 PLANS

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

REMOVING CONCRETE SIDEWALK

STATION	LOCATION	204.0155 SY	COMMENTS
STAGE 1A			
BUSINESS 51			
179+00 - 182+08	RT	180	
182+54 - 190+46	RT	490	
190+95 - 197+51	RT	360	
205+93 - 210+16	RT	240	TEMP WIDENING
271+00	LT	30	MCDILL FISHING PLATFORM
STAGE 1A SUBTOTAL		1300	
STAGE 2			
BUSINESS 51			
204+84 - 206+03	LT	70	
STAGE 2 SUBTOTAL		70	
STAGE 3			
BUSINESS 51			
197+51 - 200+16	RT	143	
200+63 - 203+96	RT	184	
204+17 - 205+30	RT	60	
205+49 - 205+93	RT	25	
210+16 - 211+58	RT	68	
STAGE 2 SUBTOTAL		480	
ITEM TOTAL		1850	

REMOVING GUARDRAIL

STATION	LOCATION	204.0165 LF
STAGE 1A		
BUSINESS 51		
182+59 - 185+82	8' LT	322
SPRINGVILLE DRIVE		
55+07 - 57+04	LT	198
STAGE 1A SUBTOTAL		520
STAGE 2		
BUSINESS 51		
182+57 - 186+62	67' LT	410
STAGE 2 SUBTOTAL		410
ITEM TOTAL		930

REMOVING FENCE

STATION	LOCATION	204.0170 LF	COMMENTS
BUSINESS 51			
STAGE 1A			
182+76.0 - 188+59.7	LT & RT	645	CHAIN LINK
271+00	LT	32	MCDILL FISHING PLATFORM (WOOD)
STAGE 1A SUBTOTAL		677	
ITEM TOTAL		677	

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REMOVING MANHOLES

STATION	LOCATION	204.0210 EACH
STAGE 2		
BUSINESS 51		
181+76	32' LT	1
186+33	43' LT	1
190+58	31' LT	1
191+82	27' LT	1
194+81	12' LT	1
STAGE 2 SUBTOTAL		5
STAGE 3		
BUSINESS 51		
198+82	4' RT	1
200+82	3' RT	1
206+91	2' RT	1
208+14	4' RT	1
208+75	2' RT	1
STAGE 2 SUBTOTAL		5
ITEM TOTAL		10

REMOVING INLETS

STATION	LOCATION	204.0220 EACH
STAGE 1A		
BUSINESS 51		
181+84	5' LT	1
SPRINGVILLE DRIVE		
55+21	17' LT	1
55+21	50' LT	1
RAINBOW DRIVE		
60+25	17' LT	1
60+27	17' RT	1
STAGE 1A SUBTOTAL		5
STAGE 2		
BUSINESS 51		
178+53	49' LT	1
181+62	44' LT	1
184+88	21' LT	1
184+92	63' LT	1
186+31	17' LT	1
186+34	58' LT	1
191+81	0.5' LT	1
191+82	42' LT	1
194+83	27' RT	1
198+82	10' LT	1
206+91	12' LT	1
208+76	12' LT	1
SPRINGVILLE DRIVE		
54+22	2' RT	1
54+22	32' LT	1
STAGE 2 SUBTOTAL		14
STAGE 3		
BUSINESS 51		
194+79	15' RT	1
198+83	32' RT	1
200+83	31' RT	1
206+93	30' RT	1
208+77	30' RT	1
STAGE 3 SUBTOTAL		5
ITEM TOTAL		24

REMOVING SEPTIC TANKS

STATION	LOCATION	204.0225 EACH
BUSINESS 51		
204+00.0	111' LT	1
ITEM TOTAL		1

REMOVING STORM SEWER (SIZE)

STATION	LOCATION	204.0245.01 12-INCH LF	204.0245.02 18-INCH LF	204.0245.03 24-INCH LF	204.0245.04 36-INCH LF	204.0245.05* 42-INCH LF
STAGE 1A						
BUSINESS 51						
181+84 - 182+14	RT	39				
182+14 - 182+61	LT & RT				53	
184+85 - 184+87	LT & RT	23				
SPRINGVILLE DRIVE						
55+21	LT & RT	47				
RAINBOW DRIVE						
60+00 - 60+27	RT	26				
60+25 - 60+27	LT & RT	34				
STAGE 1A SUBTOTAL		169			53	
STAGE 2						
BUSINESS 51						
179+67 - 179+83	LT					16
181+39 - 181+76	LT					40
181+62 - 181+76	LT	19				
181+76 - 181+86	LT	46				
181+76 - 182+14	LT				44	
184+85 - 184+92	LT	45				
185+87 - 186+33	LT			63		
186+31 - 186+33	LT	26				
186+33 - 186+34	LT	15				
186+33 - 190+58	LT			426		
190+58	LT & RT	32				
190+58 - 191+82	LT			123		
191+82	LT	42				
191+82 - 194+81	LT			298		
194+81	LT	28				
198+82	LT	12				
206+91	LT	15				
208+75	LT	15				
SPRINGVILLE DRIVE						
54+22	LT & RT	34				
MACARTHUR WAY						
73+43 - 75+05	RT				163	
STAGE 2 SUBTOTAL		329		910	207	56
STAGE 3						
BUSINESS 51						
194+81	RT	14				
198+82 - 200+82	RT		199			
198+82	RT	30				
200+82 - 206+91	RT			610		
206+91	RT	27				
206+91 - 208+14	RT			123		
208+14 - 208+75	RT				61	
208+75	RT	27				
STAGE 3 SUBTOTAL		98	199	733	61	
ITEM TOTALS		596	199	1643	321	56

*ADDITIONAL QUANTITIES SHOWN IN STRUCTURE C-49-24 PLANS

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

EARTHWORK SUMMARY

DIVISION	STATION	LOCATION	(1) 205.0100 EXCAVATION COMMON CY	(2)(3) SALVAGED/ UNUSABLE MATERIAL CY	(4) AVAILABLE MATERIAL CY	205.0400 EXCAVATION MARSH CY	(6) 209.2100 BACKFILL GRANULAR GRADE 2 CY	313.0115 PIT RUN CY	UNEXPANDED FILL CY	(7) EXPANDED FILL CY	(8) MASS ORDINATE CY	WASTE CY	(5) SPV 0195.02 HAULING AND DISPOSAL OF PAH CONTAMINATED SEDIMENT TON	COMMENTS
DIVISION 1 (STAGE 1A)														
PROJECT 6414-00-79														
BUSINESS 51														
	128+62	RR CROSSING LT & RT	15	7	8		0	0	0	0	8	7	0	
	179+00 - 191+15	BUSINESS 51 - RT	1897	255	1642	3000	0	2360	9182	11940	-10298	255	5100	
	191+15 - 197+41	TEMPORARY WIDENING - RT	1023	155	868		0	0	0	0	868	155	0	
	205+50 - 210+43	TEMPORARY WIDENING - RT	289	90	199		0	0	6	10	189	90	0	
	271+00	MCDILL FISHING PLATFORM - LT	6	6	0		0	0	0	0	0	6	0	
	55+28 - 57+09	SPRINGVILLE DRIVE (EAST)	590	145	445		0	0	60	77	368	145	0	
	60+28 - 61+32	RAINBOW DRIVE	245	55	190		0	0	1	2	188	55	0	
	66+50 - 69+48	(PATTON DRIVE) INFILTRATION PONDS - LT	9650	0	9650		2070	0	0	0	9650	7580	0	
PROJECT 6414-00-79 SUBTOTAL			13715	713	13002		2070	2360	9249	12029	973	8293	5100	
DIVISION 1 (STAGE 1A) TOTAL			**13715**	**713**	**13002**	**3000**	**2070**	**2360**	**9249**	**12029**	**973**	**8293**	**5100**	
DIVISION 2 (STAGE 2)														
PROJECT 6414-00-79														
	178+07 - 214+48	BUSINESS 51 - LT	8897	1970	6927	0	0	0	86	114	6813	1970	0	
	53+00 - 54+48	SPRINGVILLE DRIVE (WEST)	444	40	404	0	0	0	1	2	402	40	0	
	65+45 - 69+48	PATTON DRIVE	2917	140	2777	0	0	0	10	13	2764	140	0	EXCLUDES INFILTRATION PONDS
	72+91 - 74+48	MACARTHUR WAY	592	80	512	0	0	0	1	2	510	80	0	
			12850	2230	10620	0	0	0	98	131	10489	2230	0	
DIVISION 2 (STAGE 2) TOTAL			**12850**	**2230**	**10620**	**0**	**0**	**0**	**98**	**131**	**10489**	**2230**	**0**	
DIVISION 3 (STAGE 3)														
PROJECT 6414-00-79														
	191+15 - 212+71	BUSINESS 51 - RT	10355	1135	9220	0	0	0	900	1180	8040	1135	0	
	62+28 - 63+45	ROBERTS ROAD	391	40	351	0	0	0	0	0	351	40	0	
PROJECT 6414-00-79 SUBTOTAL			10746	1175	9571	0	0	0	900	1180	8391	1175	0	
DIVISION 3 (STAGE 3) TOTAL			**10746**	**1175**	**9571**	**0**	**0**	**0**	**900**	**1180**	**8391**	**1175**	**0**	
DIVISION 4 (STAGE 4)														
PROJECT 6414-00-79														
	178+18 - 214+46	BUSINESS 51 - MEDIAN	3227	320	2907	0	0	0	388	505	2402	320	0	
PROJECT 6414-00-79 SUBTOTAL			3227	320	2907	0	0	0	388	505	2402	320	0	
DIVISION 4 (STAGE 4) TOTAL			**3227**	**320**	**2907**	**0**	**0**	**0**	**388**	**505**	**2402**	**320**	**0**	
PROJECT 6414-00-79 TOTAL			40538			3000	2070	2360					5100	
		GRAND TOTALS	**40538**			**3000**	**2070**	**2360**					**5100**	

(1) EXCAVATION COMMON IS THE TOTAL VOLUME OF CUT. ITEM NUMBER 205.0100

(2) SALVAGED/ UNUSABLE PAVEMENT MATERIAL ARE INCLUDED IN THE QUANTITY OF EXCAVATION COMMON.

(3) SALVAGED/ UNUSABLE PAVEMENT MATERIAL. INCLUDES PAVEMENT, ASPHALT, CURB AND GUTTER AND SIDEWALKS.
ASPHALT DRIVEWAYS AND PARKING LOTS WERE ESTIMATED AT 3" DEPTH.

(4) AVAILABLE MATERIAL = EXCAVATION COMMON - UNUSABLE PAVEMENT MATERIAL.

(5) HAULING AND DISPOSAL OF PAH CONTAMINATED SEDIMENT WAS ASSUMMED AT A DEPTH OF 3.0'. TWO BORINGS WERE TAKEN TO A DEPTH OF 16.5'.

(6) TO BE USED ABOVE ELEVATION 1069'. PATTON DRIVE MATIERIAL USED AS ITEM 209.2100 BACKFILL GRANULAR GRADE 2 TO BE VERIFED BY CONTRACTOR. ITEM SPV.0195.01 BACKFILL GRANULAR GRADE 2 SPECIAL SHOWN ELSEWHERE IN THE QUANTITIES

(7) STAGES 1, 2, 3 AND 4 EXPANDED FILL FACTOR = 1.30

(8) THE MASS ORDINATE + OR - QTY FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL AND A MINUS QUANTITY INDICATES A SHORTAGE
OF MATERIAL WITHIN THE DIVISION.

THE MASS ORDINATE IS = EXCAVATION COMMON - SALVAGED/UNUSABLE PAVEMENT MATERIAL - EXPANDED FILL.

BUSINESS 51 STAGE 2 EARTHWORK VOLUMES ARE ESTIMATED FROM 24.0' LEFT OF THE NB REFERENCE LINE
AND COULD VARY DEPENDING ON ACTUAL CONTRACTOR OPERATIONS IN THE FIELD.

BUSINESS 51 STAGE 1A & 3 EARTHWORK VOLUMES ARE ESTIMATED FROM THE NB REFERENCE LINE
AND COULD VARY DEPENDING ON ACTUAL CONTRACTOR OPERATIONS IN THE FIELD.

BUSINESS 51 STAGE 4 EARTHWORK VOLUMES ARE ESTIMATED BETWEEN THE NB & SB MEDIAN EDGES
AND COULD VARY DEPENDING ON ACTUAL CONTRACTOR OPERATIONS IN THE FIELD.

* ADDITIONAL QUANTITIES SHOWN IN STRUCTURE C-49-24 PLANS

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FINISHING ROADWAY (PROJECT)

STATION	LOCATION	213.0100 EACH
BUSINESS 51		
178+07.46 - 214+37.79		1
ITEM TOTAL		1

BASE AGGREGATE

STATION	LOCATION	* 305.0110 DENSE 3/4-INCH TON	** 305.0120 DENSE 1 1/4-INCH TON	310.0110 OPEN-GRADED TON	COMMENTS
STAGE 1A					
BUSINESS 51					
128+62	LT & RT	15			RR CROSSING
179+00.00 - 191+15.00	LT & RT		1800		
179+18.40 - 180+11.50	43' LT		55		PARKING LOT
182+70.00 - 186+50.00	RT			200	FOR RIPRAP
271+00	LT		10		MCDILL FISHING PLATFORM
SPRINGVILLE DRIVE					
55+28.00 - 57+09.00	LT & RT	5	490		
RAINBOW DRIVE					
60+28.00 - 61+32.20	LT & RT	15	240		
PATTON DRIVE					
66+75.00 - 69+52.00	LT & RT		818		
DRIVEWAYS					
180+42.1	RT		65		
56+62.0	RT		10		SPRINGVILLE DRIVE
67+58.0	LT		50		PATTON DRIVE
STAGE 1A SUBTOTAL		20	3538	200	
STAGE 2					
BUSINESS 51					
178+07.46 - 181+95.52	LT		480		
181+95.52 - 204+00.77	LT		4600		
204+00.77 - 208+22.92	LT		900		
208+22.92 - 214+37.79	LT		920		
SPRINGVILLE DRIVE					
53+00.00 - 54+47.73	LT & RT	20	350		
PATTON DRIVE					
65+45.00 - 66+75.00	LT & RT	40	426		
MACARTHUR WAY					
72+90.58 - 74+47.21	LT & RT		400		
DRIVEWAYS					
178+09.5	LT		20		
179+60.3	LT		15		
186+76.2	LT		15		
187+66.0	LT		27		
188+85.8	LT		50		
190+75.9	LT		110		
193+19.6	LT		135		
194+86.6	LT		105		
196+89.4	LT		135		
198+16.4	LT		30		
199+47.5	LT		20		
200+47.5	LT		175		
201+94.5	LT		60		
205+29.3	LT		50		
206+40.0	LT		120		
210+84.0	LT		35		
214+08.5	LT		40		
53+65.0	RT		10		SPRINGVILLE DRIVE
66+50.0	RT		40		PATTON DRIVE
67+40.0	RT		50		PATTON DRIVE
68+50.0	RT		240		PATTON DRIVE
73+65.8	LT		15		MACARTHUR WAY
73+65.8	RT		30		MACARTHUR WAY
STAGE 2 SUBTOTAL		60	9603		

BASE AGGREGATE (CONT'D)

STATION	LOCATION	* 305.0110 DENSE 3/4-INCH TON	** 305.0120 DENSE 1 1/4-INCH TON	310.0110 OPEN-GRADED TON	COMMENTS
STAGE 3					
BUSINESS 51					
191+15.00 - 200+47.58	RT		1150		
191+12.20 - 194+87.20	RT		270		PARKING LOT
200+47.58 - 211+58.00	RT		1710		
ROBERTS ROAD					
62+28.00 - 62+77.74	LT & RT		105		
62+77.74 - 63+45.00	LT & RT	30	230		
DRIVEWAYS					
193+02.8	RT		50		
195+26.3	RT		25		
196+37.3	RT		20		
197+91.0	RT		35		
203+98.6	RT		35		
205+39.4	RT		35		
207+02.7	RT		20		
208+43.4	RT		30		
209+75.0	RT		20		
210+21.1	RT		20		
211+79.5	RT		30		
STAGE 3 SUBTOTAL		30	3785		
STAGE 4					
BUSINESS 51					
178+07.46 - 213+56.2	LT		570		
STAGE 4 SUBTOTAL			570		
ITEM TOTALS		110	17496	200	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLAN
**ADDITIONAL QUANTITIES SHOWN IN STRUCTURE C-49-24 PLANS

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

STAMPING COLORED CONCRETE ITEMS

STATION	LOCATION	405.1000 STAMPING COLORED CONCRETE CY	602.0405 CONCRETE SIDEWALK 4-INCH SF
CATEGORY 0040			
STAGE 1A			
BUSINESS 51			
179+50 - 181+67	RT	19	1540
182+36 - 190+38	RT	59	4779
STAGE 1A SUBTOTAL		78	6319
STAGE 2			
BUSINESS 51			
178+28 - 181+56	LT	23	1863
182+24 - 190+55	LT	43	3483
190+97 - 196+68	LT	40	3240
197+10 - 203+59	LT	42	3402
204+43 - 207+73	LT	20	1877
208+74 - 214+48	LT	35	2835
STAGE 2 SUBTOTAL		203	16700
STAGE 3			
BUSINESS 51			
190+99 - 192+80	RT	19	1540
193+36 - 197+71	RT	34	2754
198+11 - 199+99	RT	13	1053
200+75 - 212+70	RT	70	5671
STAGE 3 SUBTOTAL		136	11018
STAGE 4			
BUSINESS 51			
178+52 - 181+47	MEDIAN	26	2106
182+43 - 190+26	MEDIAN	121	9802
191+19 - 192+73	MEDIAN	13	1054
193+66 - 196+43	MEDIAN	29	2349
197+36 - 199+97	MEDIAN	27	2187
200+91 - 203+54	MEDIAN	22	1782
204+47 - 206+25	MEDIAN	15	1215
206+56 - 207+95	MEDIAN	12	972
208+88 - 213+49	MEDIAN	61	4941
STAGE 4 SUBTOTAL		326	26408
CATEGORY 0040 SUBTOTAL		743	60445
ITEM TOTALS		743	60445

CONCRETE PAVEMENT ITEMS

STATION	LOCATION	415.0090 CONCRETE PAVEMENT 9-INCH SY	415.0210 CONCRETE PAVEMENT GAPS EACH	415.4100 CONCRETE PAVEMENT JOINT FILLING SY
STAGE 1A				
BUSINESS 51				
179+00.00 - 191+15.00	LT & RT	4055		4285
SPRINGVILLE DRIVE				
55+27.79 - 55+72.34	LT & RT	190	1	210
RAINBOW DRIVE				
60+47.14 - 60+67.18	LT & RT	165	1	185
STAGE 1A SUBTOTAL		4410	2	4680
STAGE 2				
BUSINESS 51				
178+07.46 - 181+95.52	LT	1215		1295
181+95.52 - 190+70.19	LT	3225		3410
190+70.19 - 200+47.58	LT	4160	1	4335
200+47.58 - 204+00.77	36' LT	713	1	1580
204+00.77 - 208+22.92	36' LT	861	1	1710
208+22.92 - 214+48.80	LT	2085		2215
SPRINGVILLE DRIVE				
54+08.75 - 54+47.36	LT & RT	170	1	190
PATTON DRIVE				
69+03.00 - 69+47.59	LT & RT	235	1	260
MACARTHUR WAY				
74+02.31 - 74+46.64	LT & RT	210	1	230
STAGE 2 SUBTOTAL		12874	6	15225
STAGE 3				
BUSINESS 51				
191+15.00 - 200+47.58	RT	2920		3020
200+47.58 - 211+57.50	RT	3150		3390
ROBERTS ROAD				
62+27.95 - 62+77.74	LT & RT	225	1	250
RAINBOW DRIVE				
60+28.00 - 61+32.20	LT & RT		1	
STAGE 3 SUBTOTAL		6295	2	6660
STAGE 4				
BUSINESS 51				
178+07.46 - 182+35.90	MEDIAN	780		920
185+67.29 - 190+70.19	MEDIAN	295		640
190+70.19 - 200+47.58	MEDIAN	510		815
200+47.58 - 204+00.77	MEDIAN	195		315
204+00.77 - 208+22.92	MEDIAN	390		535
208+22.92 - 214+37.79	MEDIAN	15		220
STAGE 4 SUBTOTAL		2185		3445
ITEM TOTALS		25764	10	30010

CONCRETE PAVEMENT JOINT LAYOUT

STATION	LOCATION	415.5110.S LS
BUSINESS 51		
178+07.46 - 214+37.79		1
ITEM TOTAL		1

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

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CONCRETE DRIVEWAY

STATION	LOCATION	416.0160 6-INCH SY	416.0260 HES 6-INCH SY
STAGE 1A			
BUSINESS 51			
180+42.1	RT	55	
SPRINGVILLE DRIVE			
56+62.0	RT	30	
STAGE 1A SUBTOTAL		85	
STAGE 2			
BUSINESS 51			
178+09.5	LT	30	
179+60.3	LT	15	20
186+76.2	LT	10	15
187+66.0	LT	15	25
188+85.8	LT	30	40
190+75.9	LT	20	35
193+19.6	LT	55	
194+86.6	LT		55
196+89.4	LT	20	35
198+16.4	LT		80
199+47.5	LT		55
200+47.5	LT	25	30
201+94.5	LT	65	60
205+29.3	LT	35	
206+40.0	LT		55
210+84.0	LT	50	
214+08.5	LT	30	40
PATTON DRIVE			
66+50.0	RT	25	30
67+40.0	RT	10	15
67+58.0	LT	25	
68+50.0	RT	55	
MACARTHUR WAY			
73+65.8	LT	35	
73+65.8	RT	45	
STAGE 2 SUBTOTAL		595	590
STAGE 3			
BUSINESS 51			
193+02.8	RT	30	45
195+26.3	RT		30
196+37.3	RT		30
197+91.0	RT	55	
203+98.6	RT	25	30
205+39.4	RT	55	
207+02.7	RT	20	40
208+43.4	RT		95
209+75.0	RT	35	
210+21.1	RT	10	25
211+79.5	RT	25	30
STAGE 3 SUBTOTAL		255	325
ITEM TOTALS		935	915

DRILLED ITEMS

STATION	LOCATION	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH
STAGE 1A			
BUSINESS 51			
179+00	RT		22
STAGE 1A SUBTOTAL			22
STAGE 2			
BUSINESS 51			
178+07.46	LT		13
214+37.50 - 214+48.80	LT	5	12
STAGE 2 SUBTOTAL		5	25
STAGE 3			
BUSINESS 51			
211+57.60	RT		23
STAGE 1A SUBTOTAL			23
STAGE 4			
BUSINESS 51			
178+07.46 - 179+00	LT & RT	55	19
211+57.60- 214+37.50	LT	115	31
STAGE 4 SUBTOTAL		170	50
ITEM TOTALS		175	120

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

ASPHALTIC CONCRETE PAVEMENT ITEMS

STATION	LOCATION	450.4000 HMA COLD WEATHER PAVING TON	455.0605* TACK COAT GAL	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	465.0110 ASPHALTIC SURFACE PATCHING TON
STAGE 1A					
SPRINGVILLE DRIVE					
55+72.34 - 57+09.00	LT & RT	175	25	105	
RAINBOW DRIVE					
60+67.18 - 61+32.20	LT & RT	15	15	50	
STAGE 1A SUBTOTAL		190	40	155	
STAGE 2					
SPRINGVILLE DRIVE					
53+00.00 - 54+08.75	LT & RT		15	75	
PATTON DRIVE					
65+45.00 - 69+03.00	LT & RT		70	300	
MACARTHUR WAY					
72+90.58 - 74+02.31	LT & RT		20	85	
STAGE 2 SUBTOTAL		0	105	460	
STAGE 3					
ROBERTS ROAD					
62+77.74 - 63+45.00	LT & RT	10	15	50	
STAGE 3 SUBTOTAL		10	15	50	
UNDISTRIBUTED	MISC REPAIRS				35
ITEM TOTALS		200	160	665	35

NOTE : COLD WEATHER PAVING INCLUDES ASPHALTIC SURACE TEMPORARY
*ADDITIONAL QUANTITIES SHOWN IN STRUCTURE C-49-24 PLANS

ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

STATION	LOCATION	465.0120 TON
STAGE 1A		
BUSINESS 51		
179+18.4 - 180+11.5	RT	10
180+42.1	RT	10
STAGE 1A SUBTOTAL		20
STAGE 2		
BUSINESS 51		
178+09.5	LT	5
186+76.2	LT	2
187+66.0	LT	5
188+85.8	LT	10
190+75.9	LT	20
193+19.6	LT	25
194+86.6	LT	15
196+89.4	LT	30
201+94.5	LT	5
205+29.3	LT	8
206+40.0	LT	2
210+84.0	LT	8
214+08.5	LT	10
SPRINGVILLE DRIVE		
53+65.0	RT	5
PATTON DRIVE		
66+50.0	RT	10
67+40.0	RT	
68+50.0	RT	90
STAGE 2 SUBTOTAL		250
STAGE 3		
BUSINESS 51		
193+02.8	RT	80
203+98.6	RT	10
210+21.1	RT	2
211+79.5	RT	3
STAGE 3 SUBTOTAL		95
ITEM TOTAL		365

APRON ENDWALLS FOR CULVERT PIPE

APPROX. STATION	APPROX. LOCATION	ID	CONNECTED TO PIPE	520.1024 24-INCH EACH	522.1012 REINFORCED CONCRETE 12-INCH EACH	522.1018 REINFORCED CONCRETE 18-INCH EACH	522.1024 REINFORCED CONCRETE 24-INCH EACH	522.1030 REINFORCED CONCRETE 30-INCH EACH	522.1042* REINFORCED CONCRETE 42-INCH EACH	COMMENT
STAGE 1A										
BUSINESS 51										
184+81	61' RT	AEW 7	P-23B		1					
185+17	60' RT	AEW 5	P-25				1			
185+61	61' RT	AEW 4	P-31					1		
204+69	113' LT	AEW 1A				1				
204+62	111' LT	AEW 1					1			
SPRINGVILLE DRIVE										
55+88	66' LT	AEW 6	P-17						1	
PATTON DRIVE										
68+88	47' LT	AEW 2				1				
67+00	45' LT	AEW 3				1				
DRIVEWAY 1										
4+18	28' LT			1						INFILTRATION POND EQUALIZER PIPE
4+18	28' RT			1						INFILTRATION POND EQUALIZER PIPE
STAGE 1A SUBTOTAL				2	1	3	2	1	1	
ITEM TOTALS				2	1	3	2	1	1	

*ADDITIONAL QUANTITIES SHOWN IN STRUCTURE C-49-24 PLANS

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

CONCRETE CURB & GUTTER

STATION	LOCATION	601.0409 30-INCH TYPE A LF	601.0411 30-INCH TYPE D LF	SPV.0090.01 INTEGRAL 30-INCH TYPE A LF	SPV.0090.02 24-INCH TYPE D LF	SPV.0090.03 CURE & SEAL TREATMENT LF	COMMENTS
STAGE 1A							
BUSINESS 51							
179+00.00 - 181+65.14	RT	15		215		230	
179+18.41 - 180+12.15	RT		95			95	PARKING LOT
180+13	RT				10	10	PARKING LOT
180+23	RT				12	12	DRIVEWAY
182+37.74 - 190+36.51	RT			805		805	
191+00.58 - 191+15.00	RT			15		15	
SPRINGVILLE DRIVE							
55+30.66 - 55+72.34	LT & RT	95				95	
55+72.34 - 57+00.00	LT & RT		255			255	
RAINBOW DRIVE							
60+34.34 - 60+67.18	LT & RT	85				85	
STAGE 1A SUBTOTAL		195	350	1035	22	1602	
STAGE 2							
BUSINESS 51							
178+07.46 - 181+54.47	LT			360		360	
182+21.90 - 203+57.49	LT	60		1915		1975	
189+79.36 - 191+02.31	LT		95			95	
192+54.29 - 194+66.46	LT		180			180	
197+09.51 - 197+81.16	LT		75			75	
199+96.43 - 201+08.43	LT		80			80	
202+14.25 - 202+35.28	LT		25			25	
204+44.05 - 208+00.68	LT	20	7	360		387	
204+98.70 - 205+16.94	LT		20			20	
208+75.62 - 214+48.18	LT			575		575	
SPRINGVILLE DRIVE							
53+00.00 - 54+08.75	LT & RT		80			80	
54+08.75 - 54+39.07	LT & RT	85				85	
PATTON DRIVE							
65+45.00 - 69+03.00	LT & RT		715			715	
69+03.00 - 69+42.18	LT & RT	105				105	
MACARTHUR WAY							
72+90.58 - 74+02.31	LT & RT		195			195	
74+02.31 - 74+46.93	LT & RT	95				95	
STAGE 2 SUBTOTAL		365	1472	3210		5047	
STAGE 3							
BUSINESS 51							
191+15.00 - 199+97.48	RT	15		890		905	
191+11.97 - 194+87.93	RT		335			335	
200+75.77 - 211+57.50	RT			1080		1080	
ROBERTS ROAD							
62+41.34 - 62+77.74	LT & RT	110				110	
62+77.74 - 63+47.00	LT		40			40	
STAGE 3 SUBTOTAL		125	375	1970		2470	
STAGE 4							
BUSINESS 51							
178+51.61 - 181+47.581	MEDIAN	600				600	
182+42.79 - 190+25.65	MEDIAN	1550				1550	
191+19.13 - 192+72.78	MEDIAN	300				300	
193+66.19 - 196+42.64	MEDIAN	555				555	
197+35.93 - 199+97.46	MEDIAN	530				530	
200+90.92 - 203+54.29	MEDIAN	535				535	
204+47.29 - 206+25.10	MEDIAN	365				365	
206+55.74 - 207+94.84	MEDIAN	280				280	
208+88.00 - 213+49.28	MEDIAN	930				930	
STAGE 4 SUBTOTAL		5645				5645	
ITEM TOTALS		6330	2197	6215	22	14764	

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

3

CONCRETE SIDEWALK

STATION	LOCATION	602.0415 6-INCH SF	COMMENT
STAGE 1A			
BUSINESS 51			
128+62	LT & RT	400	RR CROSSING
179+00.00 - 181+77.16	RT	1240	
182+26.29 - 190+46.21	RT	4920	
190+90.88 - 191+15.00	RT	150	
271+00	LT	266	MCDILL FISHING PLATFORM
SPRINGVILLE DRIVE			
55+39.08 - 56+41.28	RT	915	
STAGE 1A SUBTOTAL		7891	
STAGE 2			
BUSINESS 51			
178+28.34 - 181+65.18	LT	2000	
182+12.02 - 203+70.84	LT	10625	
204+30.70 - 208+11.72	LT	1860	
208+64.57 - 213+84.46	LT	2975	
PATTON DRIVE			
65+45.00 - 69+33.50	LT	2285	
65+45.00 - 69+33.50	RT	1855	
STAGE 2 SUBTOTAL		21600	
STAGE 3			
BUSINESS 51			
191+15.00 - 200+09.73	RT	4595	
200+63.52 - 212+70.83	RT	6000	
STAGE 3 SUBTOTAL		10595	
STAGE 4			
BUSINESS 51			
203+40.77 - 203+46.66	MEDIAN	50	
STAGE 4 SUBTOTAL		50	
ITEM TOTAL		40136	

CURB RAMP DETECTABLE WARNING FIELD

STATION	LOCATION	602.0505 YELLOW SF	COMMENTS
STAGE 1A			
BUSINESS 51			
128+62	LT & RT	48	RR CROSSING
SPRINGVILLE DRIVE			
55+34 - 55+45	LT & RT	36	
RAINBOW DRIVE			
60+36 - 60+43	LT & RT	36	
STAGE 1A SUBTOTAL		72	
STAGE 2			
BUSINESS 51			
203+40.66 - 203+46.66	LT	12	
SPRINGVILLE DRIVE			
54+31 - 54+44	LT & RT	36	
PATTON DRIVE			
69+34 - 69+40	LT & RT	36	
MACARTHUR WAY			
74+27 - 74+44	LT & RT	36	
STAGE 2 SUBTOTAL		120	
STAGE 3			
203+40.66 - 203+46.66	RT	12	
ROBERTS ROAD			
62+32 - 62+48	LT & RT	36	
STAGE 3 SUBTOTAL		48	
STAGE 4			
BUSINESS 51			
203+40.66 - 203+46.66	MEDIAN	24	
STAGE 4 SUBTOTAL		24	
ITEM TOTAL		264	

RIPRAP

STATION	LOCATION	606.0100 LIGHT CY	606.0200 MEDIUM CY	COMMENT
STAGE 1A				
BUSINESS 51				
182+70 - 186+50	RT		600	
184+41.92	RT		2	MCDILL FISHING PLATFORM
STAGE 1A SUBTOTAL			602	
STAGE 2				
PATTON DRIVE				
67+00	LT	5		
67+36	LT	10		
67+90	LT	10		
68+76	LT		20	
STAGE 2 SUBTOTAL		25	20	
ITEM TOTALS		25	622	

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

STORM SEWER PIPE REINFORCED CONCRETE CLASS IV AND MISC ITEMS

PIPE ID	FROM STRUCTURE	TO STRUCTURE	608.0412 12-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	608.0442 42-INCH LF	520.3424 CULVERT PIPE CLASS III-B NON-METAL 24-INCH LF	611.9800.S PIPE GRATES EACH	SPV.0060.07 CONNECTING TO EXISTING STRUCTURES EACH	SPV.0060.08 TEMPORARY BLOCK STORM SEWER EACH	COMMENTS
STAGE 1A													
P-4	INL 4	INL 3	35										
P-5	INL 3	MH 2		30								1	TEMP BLOCK FOR STAGE 1A
P-EX1	P-E41	POND					80						SEAL PIPE AFTER AEW 6 IS ACTIVE
P-11	INL 8	INL 9						4				1	TEMP BLOCK FOR STAGE 1A
P-12	INL 9	INL 10						44					TO AVOID AT&T CONDUIT
P-13	INL 10	INL 12					75						
P-14	INL 10	TYPE B GRIT	25										
P-15	TYPE B GRIT	INL 11	11										
P-16	INL 11	INL 12	36										
P-17	INL 12	AEW 6						53		1			
P-20	INL 16	INL 17	18										
P-25A	INL 17	INL 19	31										
P-25	INL 19	AEW 5			31								
P-24	INL 20	INL 19	18										
P-23A	INL 19	INL 18	12										
P-22	INL 18	TYPE A GRIT	9										
P-23B	TYPE A GRIT	AEW 7	19										
P-EX2	P-E29	POND			40								SEAL PIPE AFTER AEW 4 IS ACTIVE
P-29	MH 10	MH 11				16						1	TEMP BLOCK FOR STAGE 1A
P-30	MH 11	MH 6			53								
P-31	MH 6	AEW 4				32				1			
P-52	MH 11	TYPE C GRIT	26										
P-53	TYPE C GRIT	MH 6	10										
P-46	INL 24	MH 11			96								
P-35	INL 23	INL 24	31										
P-21A	INL 26	INL 24			133								
P-36	MH 15	INL 26			203								
P-102	INL 93	INL 27	27										
P-97	INL 27	MH 15		30									
P-101	INL 92	INL 28	26										
P-98	INL 29	INL 28	32										
P-99	INL 28	INL 27		35									
P-100	INL 34	MH 15		216									
P-105	INL 35	INL 34	18										
P-108	INL 36	INL 35	70										
P-106	INL 40	INL 34		207									
P-111	INL 41	INL 40	17										
STAGE 1A SUBTOTAL			471	518	556	48	155	101		2		3	
STAGE 2													
P-1	INL 1	MH E39	11										REMOVE EXISTING INLET AND CONNECT TO PIPE
P-2A	EXISTING	MH 2						8					
P-2B	MH 2	EXISTING						8					
P-5	MH 2	INL 3		12									FINISH CONNECTION FROM STAGE 1A
P-7	INL 5	INL 6	39										
P-8	INL 6	INL 7	40										
P-9	INL 7	MH E40		10							1		
P-10	MH E40	INL 8						21			1		
P-11	INL 8	INL 9						4					FINISH CONNECTION TO P-11 FROM STAGE 1A
P-19	INL 14	INL 15		18									
P-21	INL 15	MH 10		122									
P-29	MH 10	MH 11				42							FINISH CONNETION TO P-29 FROM STAGE 1A
P-38	MH 13	MH 10				60							
P-37	INL 22	MH 13		19									
P-39	INL 21	MH 13	12										
P-40	MH 14	MH 13				133							
P-96	INL 25	MH 14	12										

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

STORM SEWER PIPE REINFORCED CONCRETE CLASS IV AND MISC ITEMS (CONT'D)

PIPE ID	FROM STRUCTURE	TO STRUCTURE	608.0412 12-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	608.0442 42-INCH LF	520.3524 CULVERT PIPE CLASS III-B NON-METAL 24-INCH LF	611.9800.S PIPE GRATES EACH	SPV.0060.07 CONNECTING TO EXISTING STRUCTURES EACH	SPV.0060.08 TEMPORARY BLOCK STORM SEWER EACH	COMMENTS
P-41A	MH 15A	MH 14			132								
P-41C	INL 15B	INL 15A	64										
P-41B	INL 15A	MH 15A		33									
P-41	INL 32	MH 15A			288								
P-103	INL 30	INL 31	27										
P-103A	INL 30A	INL 30	56										
P-104	INL 31	INL 32		24									
P-104A	INL 32	MH 16A		8									
P-107	INL 33	INL 32		7									
P-43	MH 16	INL 32			205								
P-109	INL 37	INL 38	25										
P-110	INL 38	INL 42		36									
P-113	INL 42	MH 16		7									
P-112	INL 39	MH 16		7									
P-45	MH 18	MH 16			263								
P-116	INL 44	INL 45	27										
P-117	INL 45	MH 18	24										
P-120	INL 46	MH 18		20									
P-119	INL 47	INL 46		7									P-118 CONNECTION TO INL 47 IN STAGE 3
P-121	INL 49	MH 19	22										
P-124	INL 50	MH 19		7									
P-123	INL 51	INL 50	9										
P-122	INL 52	INL 51	14									1	TEMP BLOCK FOR STAGE 2
P-47	MH 19	MH 20			180								
P-125	INL 53	INL 54	56										
P-126	INL 54	INL 55	27										
P-127	INL 55	MH 20		23									
P-132	INL 56	MH 20		19									
P-131	INL 57	INL 56		9								1	P-130 CONNECTION TO INL 57 IN STAGE 3
P-48	MH 20	MH 21			124								
P-133	INL 61	MH 21	24										
P-136	INL 62	MH 21		14									
P-135	INL 63	INL 62	9										
P-134	INL 64	INL 63	8									1	TEMP BLOCK FOR STAGE 2
P-49	MH 21	MH 22			243								
P-74	INL 68	AEW 1			62					1			
P-73	MH 22	INL 68			24								
P-72	INL 67	MH 22	30									1	TEMP BLOCK FOR STAGE 2
P-50	MH 23	MH 22			162								
P-75	INL 75	MH 23	32										
P-78	INL 74	MH 23		8									
P-77	INL 73	INL 74	6										
P-76A	INL 73A	INL 73	64										
P-76	INL 72	INL 73	16									1	TEMP BLOCK FOR STAGE 2
P-51	MH 24	MH 23			148								
P-83	INL 77	MH 24	23										
P-85	INL 78	MH 24	7										
P-84	INL 79	INL 78	9										
P-79	AEW 1A	MH 32		56									
P-81	MH 32	MH 27		337									
P-94	INL 87	MH E6	36									1	TEMP BLOCK FOR STAGE 2
P-95	INL 88	MH E7	24									1	TEMP BLOCK FOR STAGE 2
P-87	INL 89	INL 90	16									1	TEMP BLOCK FOR STAGE 2
P-67	INL 69	INL 70	53										
P-68	INL 70	INL 71	34										
P-69	INL 71	AEW 3		42									
P-70	INL 65	INL 66	42										
P-71	INL 66	AEW 2		49									

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

STORM SEWER PIPE REINFORCED CONCRETE CLASS IV AND MISC ITEMS (CONT'D)

PIPE ID	FROM STRUCTURE	TO STRUCTURE	608.0412 12-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	608.0442 42-INCH LF	520.3524 CULVERT PIPE CLASS III-B NON-METAL 24-INCH LF	611.9800.S PIPE GRATES EACH	SPV.0060.07 CONNECTING TO EXISTING STRUCTURES EACH	SPV.0060.08 TEMPORARY BLOCK STORM SEWER EACH	COMMENTS
P-86	MH E4	MH 25					61				1		STAGE 1A WIDENING IS FOR THIS PIPE
P-61	MH 25	MH 26					34						
P-62	MH 26	MH 27				28							
P-58	INL 82	MH 27	15										
P-65	MH 27	MH 28					101						
P-65A	MH 28	EXISTING					8						
P-54	INL 86	INL 85	8										
P-55	INL 85	INL 84	45										
P-56	INL 84	TYPE C GRIT	4										
P-57	INL 83	INL 84	35										
P-64	MH 26	TYPE C GRIT	69										
P-63	TYPE C GRIT	MH 28	74										
POND	CELL	CELL							56				EQUALIZER PIPE BETWEEN INFILTRATION PONDS
STAGE 2 SUBTOTAL			1148	894	1831	263	204	41	56	1	3	8	
STAGE 3													
P-5	INL 3	MH 2		22									CONNECT GAP BETWEEN STAGE 1A AND 2
P-118	INL 48	INL 47	32										
P-122	INL 52	INL 51	29										FINISH CONNETION TO P-122 FROM STAGE 2
P-128	INL 60	INL 59	42										
P-129	INL 59	INL 58	30										
P-130	INL 59	INL 57		35									
P-134	INL 64	INL 63	28										FINISH CONNETION TO P-134 FROM STAGE 2
P-72	INL 67	MH 22	29										FINISH CONNETION TO P-72 FROM STAGE 2
P-76	INL 72	INL 73	30										FINISH CONNETION TO P-76 FROM STAGE 2
P-59	INL 80	INL 81	11										
P-60	INL 81	MH 25		40									
P-94	INL 87	MH E6	20										FINISH CONNETION TO MH E6 FROM STAGE 2
P-95	INL 88	MH E7	32										FINISH CONNETION TO MH E7 FROM STAGE 2
P-87	INL 89	INL 90	17										FINISH CONNETION TO INL 90 FROM STAGE 2
P-88	INL 90	INL 91	8										
P-89	INL 91	MH E8		17									
STAGE 3 SUBTOTAL			308	114									
ITEM TOTALS			1927	1526	2387	311	359	142	56	3	3	11	

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STORM SEWER STRUCTURES AND CASTINGS

APPROX. STATION	APPROX. LOCATION	ID	611.0530 CASTINGS MANHOLE COVERS TYPE J EACH	611.0609 CASTINGS INLET COVERS TYPE B-A EACH	611.0624 CASTINGS INLET COVERS TYPE H EACH	611.0639 CASTINGS INLET COVERS TYPE H-S EACH	611.0642 CASTINGS INLET COVERS TYPE MS EACH	611.0651 CASTINGS INLET COVERS TYPE S EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	SPV.0060.04 INLETS 5-FT DIAMETER EACH	SPV.0060.05 INLETS 6-FT DIAMETER EACH	SPV.0060.06 INLETS 8-FT DIAMETER EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3230 INLETS 2X3-FT GRATE EACH	SPV.0060.01 STRUCTURES GRIT CHAMBER TYPE A EACH	SPV.0060.02 STRUCTURES GRIT CHAMBER TYPE B EACH	SPV.0060.03 STRUCTURES GRIT CHAMBER TYPE C EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.9710 SALVAGE INLET COVERS EACH	COMMENT
STAGE 1A																									
179+75	29' RT	INL 3			1								1												
180+07	47' RT	INL 4			1													1							
181+42	14' LT	INL 9			1										1										
181+48	30' RT	INL 10			1											1									
181+60	60' RT	TYPE B GRIT																			1				STRUCTURE M-49-06
55+60	16' RT	INL 11				1							1												
55+56	19' LT	INL 12				1										1									
185+17	2' LT	INL 17				1												1							
185+05	30' RT	INL 18			1													1							
184+80	40' RT	TYPE A GRIT																		1					STRUCTURE M-49-07
185+17	30' RT	INL 19				1												1							
185+35	30' RT	INL 20			1													1							
185+78	34' RT	MH 6	1									1													
186+00	40' RT	TYPE C GRIT																					1		STRUCTURE M-49-08
186+24	6' RT	MH 11	1								1														
187+17	30' RT	INL 24			1								1												
187+17	2' LT	INL 23			1													1							
188+50	30' RT	INL 26			1								1												
190+53	29' RT	MH 15	1						1																
60+60	18' RT	INL 27				1							1												
60+84	22' RT	INL 93					1										1								
191+14	47' RT	INL 29				1												1							
60+60	18' LT	INL 28				1							1												
60+84	23' LT	INL 92					1										1								
192+69	30' RT	INL 34			1								1												
192+75	47' RT	INL 35			1													1							
193+30	47' RT	INL 36			1													1							
194+74	47' RT	INL 41				1												1							
194+74	30' RT	INL 40				1												1							
194+80	15' RT	EXISTING						1																	
204+63	54' LT	INL 68			1													1							
204+63	30' LT	MH 22	1							1															
206+90	15' RT	EXISTING						1																	
208+97	30' RT	INL E-A5																						1	RE-INSTALL INLET COVER IN STAGE 3A
208+97	30' RT	INL E-A5						1																	
67+53	18' RT	INL 69			1													1							
67+00	18' RT	INL 70				1												1							
67+00	18' LT	INL 71				1												1							
69+20	21' RT	INL 65				1												1							
69+20	21' LT	INL 66			1													1							
STAGE 1A SUBTOTAL			4		15	12	2	3	1	1	1	1	7			2	2	17	1	1	1				1
STAGE 2																									
178+53	54' LT	INL 1			1													1							
179+75	35' LT	MH 2	1								1														
54+29	19' LT	INL 5				1												1							
54+22	19' RT	INL 6				1							1												
181+39	54' LT	INL 7			1								1												
181+41	22' LT	INL 8			1										1										
185+17	19' LT	INL 16				1												1							
185+17	54' LT	INL 14				1												1							
185+35	54' LT	INL 15			1													1							
186+57	42' LT	MH 10	1							1															
187+17	23' LT	INL 22			1													1							
187+17	42' LT	MH 13	1							1															
187+17	54' LT	INL 21			1													1							
188+50	54' LT	INL 25			1													1							
188+50	37' LT	MH 14	1							1															

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STORM SEWER STRUCTURES AND CASTINGS (CONT'D)

APPROX. STATION	APPROX. LOCATION	ID	611.0530 CASTINGS MANHOLE COVERS TYPE J EACH	611.0609 CASTINGS INLET COVERS TYPE B-A EACH	611.0624 CASTINGS INLET COVERS TYPE H EACH	611.0639 CASTINGS INLET COVERS TYPE H-S EACH	611.0642 CASTINGS INLET COVERS TYPE MS EACH	611.0651 CASTINGS INLET COVERS TYPE S EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	SPV.0060.04 INLETS 5-FT DIAMETER EACH	SPV.0060.05 INLETS 6-FT DIAMETER EACH	SPV.0060.06 INLETS 8-FT DIAMETER EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3230 INLETS 2X3-FT EACH	SPV.0060.01 STRUCTURES GRIT CHAMBER TYPE A EACH	SPV.0060.02 STRUCTURES GRIT CHAMBER TYPE B EACH	SPV.0060.03 STRUCTURES GRIT CHAMBER TYPE C EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.9710 SALVAGE INLET COVERS EACH	COMMENT
189+85	30' LT	MH 15A	1						1															
190+47	71' LT	INL 15B			1													1						
189+82	71' LT	INL 15A				1												1						
192+91	71' LT	INL 30			1													1						
192+70	54' LT	INL 31			1								1											
192+70	22' LT	INL 32			1													1						
192+70	30' LT	MH 16A	1						1															
192+70	14' LT	INL 33			1													1						
193+48	71' LT	INL 30A			1													1						
194+58	71' LT	INL 37			1													1						
194+75	54' LT	INL 38		1									1											
194+75	17' LT	INL 42				1												1						
194+75	11' LT	MH 16	1						1															
194+75	4' LT	INL 39				1												1						
197+17	71' LT	INL 44			1													1						
197+39	54' LT	INL 45			1								1											
197+39	30' LT	MH 18	1						1															
197+39	10' LT	INL 46			1													1						
197+39	3' LT	INL 47			1													1						
199+16	54' LT	INL 49			1													1						
199+16	30' LT	MH 19	1						1															
199+16	23' LT	INL 50			1													1						
199+16	14' LT	INL 51			1													1						
200+19	71' LT	INL 53			1													1						
200+75	71' LT	INL 54			1													1						
200+96	54' LT	INL 55			1								1											
200+96	30' LT	MH 20	1						1															
200+96	10' LT	INL 56			1													1						
200+96	3' LT	INL 57				1												1						
202+20	54' LT	INL 61			1													1						
202+20	30' LT	MH 21	1						1															
202+20	15' LT	INL 62			1													1						
202+20	6' LT	INL 63			1													1						
204+86	58' LT	MH 32	1						1															
206+05	54' LT	INL 75			1													1						
206+24	30' LT	MH 23	1							1														
206+24	23' LT	INL 74			1													1						
206+24	16' LT	INL 73			1													1						
205+60	10' LT	INL 73A			1													1						
207+73	54' LT	INL 77				1												1						
207+73	30' LT	MH 24	1						1															
207+73	23' LT	INL 78				1												1						
207+73	14' LT	INL 79				1												1						
210+42	54' LT	INL 87			1													1						
212+01	54' LT	INL 88			1													1						
213+44	54' LT	INL 89			1													1						

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STORM SEWER STRUCTURES AND CASTINGS (CONT'D)

APPROX. STATION	APPROX. LOCATION	ID	611.0530 CASTINGS MANHOLE COVERS TYPE J EACH	611.0609 INLET COVERS TYPE B-A EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.0651 INLET COVERS TYPE S EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	SPV.0060.04 INLETS 5-FT DIAMETER EACH	SPV.0060.05 INLETS 6-FT DIAMETER EACH	SPV.0060.06 INLETS 8-FT DIAMETER EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3230 INLETS 2X3-FT EACH	SPV.0060.01 STRUCTURES TYPE A EACH	SPV.0060.02 STRUCTURES GRIT CHAMBER TYPE B EACH	SPV.0060.03 STRUCTURES TYPE C EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.9710 SALVAGE INLET COVERS EACH	COMMENT
74+86	66' LT	INL 86			1													1						
74+78	77' LT	INL 85			1													1						
74+36	51' LT	INL 84			1									1										
208+60	70' LT	TYPE C GRIT																			1			
74+16	22' LT	INL 83				1												1						
208+14	4' RT	MH 25	1									1												STAGE 1A WIDENING IS FOR THIS STRUCTURE
74+71	9' RT	MH 26	1									1												
74+43	10' RT	MH 27	1							1														
74+32	21' RT	INL 82				1												1						
73+42	13' RT	MH 28	1							1														
STAGE 2 SUBTOTAL			18	1	38	13			9	6	1	2	6	1	1			44			1			
STAGE 3																								
197+40	30' RT	INL 48			1													1						
199+16	30' RT	INL 52			1													1						
62+61	20' RT	INL 60			1													1						
62+46	19' LT	INL 59				1							1											
200+82	31' RT	INL 58			1								1											
202+20	30' RT	INL 64			1													1						
204+63	30' RT	INL 67			1													1						
206+23	30' RT	INL 72			1													1						
213+44	21' LT	INL 90			1													1						
213+43	14' LT	INL 91			1													1						
207+73	30' RT	INL 80				1																		
207+83	30' RT	INL 81			1																			
208+75	2' RT	MH-E4																				1		
208+97	3' RT	MH-E5																				1		
210+42	3' RT	MH-E6																				1		
STAGE 3 SUBTOTAL					10	2							2					8				3		
ITEM TOTALS			22	1	63	27	2	3	10	7	2	3	15	1	1	2	2	69	1	1	2	3	1	

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COVER PLATES TEMPORARY

STATION	611.8120.S
UNDISTRIBUTED	5
ITEM TOTAL	5

FENCING

STATION	LOCATION	616.0206 FENCE CHAIN LINK 6-FT LF	616.0329 GATES CHAIN LINK 4-FT (WIDTH) EACH
STAGE 1A			
BUSINESS 51			
182+53.00 - 188+59.00	43.5' LT	602	
184+42.00	43.5' LT		1
186+52.00 - 186+76.00	LT	54	
188+59.00	LT	14	
SPRINGVILLE DRIVE			
55+49.3 - 56+50.00	LT	90	
STAGE 1A SUBTOTAL		760	1
ITEM TOTALS		760	1

*ADDITIONAL QUANTITIES SHOWN IN STRUCTURE C-49-24 PLANS

MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT)

STATION	LOCATION	618.0100 EACH
BUSINESS 51		
178+07.46 - 214+37.79	LT & RT	1
ITEM TOTAL		1

MOBILIZATION

STATION	LOCATION	619.1000 EACH
BUSINESS 51		
6414-00-79		
CAT 10		0.79
CAT 20		0.07
CAT 30		0.05
CAT 40		0.05
PROJECT TOTAL 6414-00-79		0.96
6414-00-89		
CAT 10		0.04
PROJECT TOTAL 6414-00-89		0.04
ITEM TOTAL		1

CONCRETE MEDIAN SLOPED NOSE

STATION	LOCATION	620.0300 SF	TYPE
STAGE 4			
BUSINESS 51			
178+44.6	MEDIAN	48	1
181+54.4	MEDIAN	48	1
182+35.9	MEDIAN	48	1
190+32.6	MEDIAN	48	1
191+12.3	MEDIAN	48	1
192+79.8	MEDIAN	48	1
193+59.3	MEDIAN	48	1
196+49.6	MEDIAN	48	1
197+29.0	MEDIAN	48	1
200+04.4	MEDIAN	48	1
200+84.1	MEDIAN	48	1
203+61.2	MEDIAN	48	1
204+40.4	MEDIAN	48	1
206+31.9	MEDIAN	48	1
206+48.7	MEDIAN	66	1
208+01.8	MEDIAN	48	1
208+81.1	MEDIAN	48	1
213+56.2	MEDIAN	48	1
STAGE 4 SUBTOTAL		882	
ITEM TOTAL		882	

WATER

STATION	LOCATION	624.0100 MGAL
STAGE 1A		
BUSINESS 51		
179+00 - 179+43	RT	38
205+50 - 210+50	RT	4
SPRINGVILLE DRIVE		
55+28.00 - 57+09	LT & RT	8
RAINBOW DRIVE		
60+28 - 61+32		4
DRIVEWAYS	LT & RT	2
STAGE 1A SUBTOTAL		56
STAGE 2		
BUSINESS 51		
178+07 - 214+38	LT	104
SPRINGVILLE DRIVE		
53+000 - 54+48	LT & RT	6
PATTON DRIVE		
65+45 - 69+48	LT & RT	10
MACARTHUR WAY		
72+90 - 74+48	LT & RT	6
DRIVEWAYS	LT & RT	24
STAGE 2 SUBTOTAL		150
STAGE 3		
BUSINESS 51		
191+15 - 211+58	RT	49
ROBERTS ROAD		
62+00.00 - 63+45.00	LT & RT	5
DRIVEWAYS	LT & RT	5
STAGE 3 SUBTOTAL		59
STAGE 4		
BUSINESS 51		
178+07 - 213+56		10
STAGE 4 SUBTOTAL		10
ITEM TOTAL		275

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LANDSCAPING ITEMS

STATION	LOCATION	* ** 625.0100 TOPSOIL SY	** 627.0200 MULCHING SY	* 630.0500 SEED WATER MGAL	* SPV.0030.01 FERTILIZER FOR LAWN TYPE TURF CWT	* SPV.0180.02 PREPARING TOPSOIL FOR LAWN TYPE TURF SY	* ** 630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	SPV.0180.01 INFILTRATION BASIN SOIL MIX SY	COMMENTS
STAGE 1A										
BUSINESS 51										
179+00 - 191+15	RT	1263		28.4	0.80	1263	22.7	5		
191+15 - 197+47	RT	1328		29.8	0.84	1328	23.9			TEMP WIDENING
205+50 - 210+50	RT	897		20.1	0.56	897	16.1			TEMP WIDENING
271+00	LT	20	20	0.4	0.01	20	0.4			MCDILL FISHING PLATFORM
SPRINGVILLE DRIVE										
55+50 - 57+09	LT & RT	616		13.8	0.39	616	11.1	5		
RAINBOW DRIVE										
60+50 - 61+32	LT & RT	138		3.1	0.09	138	2.5	5		
PATTON DRIVE										
65+67 - 67+51	LT	2500	2500	56.1	1.58	2500	45.0		810	INFILTRATION BASIN
66+75 - 69+30	RT	1797	1395	40.4	1.13	1797	32.4			
67+67 - 69+26	LT	1400	1400	31.4	0.88	1400	25.2		90	INFILTRATION BASIN
STAGE 1A SUBTOTAL		9959	5315	224	6.27	9959	179	15	900	
STAGE 2										
BUSINESS 51										
178+07.46 - 181+65	LT	242		5.4	0.15	242	4.4	5		
182+12 - 203+71	LT	773		17.4	0.49	773	13.9	15		
204+31 - 208+12	LT	158		3.5	0.10	158	2.8			
208+65 - 214+48	LT	479		10.7	0.30	479	8.6			
SPRINGVILLE DRIVE										
53+00 - 54+33	LT & RT	192		4.3	0.12	192	3.5			
PATTON DRIVE										
65+45 - 66+75	LT & RT	218	218	4.9	0.14	218	3.9	45		
66+75 - 69+30	RT	1395	1395	31.3	0.88	1395	25.1			
MACARTHUR WAY										
72+90 - 74+10	LT & RT	180		4.0	0.11	180	3.2	5		
STAGE 2 SUBTOTAL		3636	1613	81.7	2.29	3636	65.4	70		
STAGE 3										
BUSINESS 51										
191+15 - 200+10	RT	344		7.7	0.09	344	2.6	10		
200+64 - 211+58	RT	648		14.5	0.12	648	3.5			
ROBERTS ROAD										
62+62 - 63+45	LT & RT	38		0.8	0.01	38	0.2	5		
STAGE 3 SUBTOTAL		1029		23.1	0.22	1029	6.3	15		
ITEM TOTALS		14625	6928	328	9	14625	251	100	900	

*ADDITIONAL QUANTITIES SHOWN IN STRUCTURE C-49-24 PLANS
**ADDITIONAL QUANITITES SHOWN IN TEMPORARY SURFACE TABLE

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EROSION CONTROL ITEMS

STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	* 628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7570 ROCK BAGS EACH	COMMENTS
STAGE 1									
BUSINESS 51									
178+07 - 214+48	LT			1	1				
STAGE 1 SUBTOTAL				1	1				
STAGE 1A									
BUSINESS 51									
179+00 - 191+15	RT			3	2	1328	66	20	
182+68 - 187+10	RT	445	445						
187+10 - 187+36	RT	45	45						SMALL ANIMAL TURN-AROUND
191+15 - 197+47	RT					665			TEMP WIDENING
205+50 - 210+50	RT					450			TEMP WIDENING
271+00	LT	50	50						MCDILL FISHING PLATFORM
SPRINGVILLE DRIVE									
55+50 - 57+09	LT & RT					196		10	
56+32 - 56+95	LT	83	83						
56+95 - 57+08	LT	45	45						SMALL ANIMAL TURN-AROUND
RAINBOW DRIVE									
60+50 - 61+32	LT & RT					150			
PATTON DRIVE									
65+67 - 67+51	LT			1	1				INFILTRATION BASIN
66+75 - 69+30	LT & RT					405			
67+67 - 69+26	LT			1	1				INFILTRATION BASIN
STAGE 1A SUBTOTAL		668	668	5	4	3194	66	30	
STAGE 2									
BUSINESS 51									
178+07.46 - 181+65	LT			3	2	230			
182+12 - 203+71	LT	525	525			731			
204+31 - 208+12	LT					129			
208+65 - 214+48	LT					480			
SPRINGVILLE DRIVE									
53+00 - 54+33	LT & RT					608			
PATTON DRIVE									
65+45 - 66+75	LT & RT								
65+45 - 69+30	LT								
MACARTHUR WAY									
72+90 - 74+10	LT & RT					177			
STAGE 2 SUBTOTAL		525	525	3	2	2355			
STAGE 3									
BUSINESS 51									
191+15 - 200+10	RT			2	1	316			
200+64 - 211+58	RT					648			
ROBERTS ROAD									
62+62 - 63+45	LT & RT					151			
STAGE 3 SUBTOTAL				2	1	1115			
UNDISTRIBUTED		295	295			1666	19	10	
ITEM TOTALS		1488	1488	11	8	8330	85	40	

*ADDITIONAL QUANTITIES SHOWN IN STRUCTURE C-49-24 PLANS

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

INLET PROTECTION

STATION	LOCATION	INLET ID	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
STAGE 1A						
BUSINESS 51						
177+36	29' RT	EXIST				1
179+75	29' RT	INL 3	1		1	
180+07	47' RT	INL 4	1		1	
181+42	14' LT	INL 9	1		1	
181+48	30' RT	INL 10	1		1	
185+05	30' RT	INL 18	1		1	
185+17	2' LT	INL 17	1		1	
185+17	30' RT	INL 19	1			1
185+35	30' RT	INL 20	1		1	
187+17	30' RT	INL 24	1		1	
187+17	2' LT	INL 23	1		1	
188+50	30' RT	INL 26	1		1	
191+14	47' RT	INL 29	1		1	
204+63	54' LT	INL 68	1		1	
208+97	30' RT	INL E-A5	1		1	
SPRINGVILLE DRIVE						
55+56	19' LT	INL 12	1			1
55+60	16' RT	INL 11	1			1
RAINBOW DRIVE						
60+60	18' LT	INL 28	1			1
60+60	18' RT	INL 27	1			1
60+84	23' LT	INL 92	1	1		
60+84	22' RT	INL 93	1	1		
PATTON DRIVE						
67+00	18' LT	INL 71	1			1
67+00	18' RT	INL 70	1			1
67+53	18' RT	INL 69	1		1	
69+20	21' LT	INL 66	1			1
69+20	21' RT	INL 65	1			1
STAGE 1A SUBTOTAL			25	2	14	10
STAGE 2						
BUSINESS 51						
177+36	54' LT	EXISTING				1
178+53	54' LT	INL 1	1		1	
181+39	54' LT	INL 7	1		1	
181+41	22' LT	INL 8	1		1	
185+17	19' LT	INL 16	1		1	
185+17	54' LT	INL 14	1			1
185+35	54' LT	INL 15	1		1	
187+17	23' LT	INL 22	1		1	
187+17	54' LT	INL 21	1		1	
188+50	54' LT	INL 25	1		1	
189+82	71' LT	INL 15A	1		1	
190+47	71' LT	INL 15B	1		1	
192+70	54' LT	INL 31	1		1	
192+70	22' LT	INL 32	1		1	
192+70	14' LT	INL 33	1		1	
192+91	71' LT	INL 30	1		1	
193+48	71' LT	INL 30A	1		1	
194+58	71' LT	INL 37	1		1	
194+75	54' LT	INL 38	1	1		
194+75	17' LT	INL 42	1		1	
194+75	4' LT	INL 39	1		1	
197+17	71' LT	INL 44	1		1	
197+39	54' LT	INL 45	1		1	
197+39	10' LT	INL 46	1		1	
197+39	3' LT	INL 47	1		1	
199+16	54' LT	INL 49	1		1	
199+16	23' LT	INL 50	1		1	
199+16	14' LT	INL 51	1		1	
200+19	71' LT	INL 53	1		1	
200+75	71' LT	INL 54	1		1	
200+96	54' LT	INL 55	1		1	
200+96	10' LT	INL 56	1		1	
200+96	3' LT	INL 57	1		1	
202+20	54' LT	INL 61	1		1	
202+20	15' LT	INL 62	1		1	
202+20	6' LT	INL 63	1		1	
205+60	10' LT	INL 73A	1		1	
206+05	54' LT	INL 75	1		1	

INLET PROTECTION (CONT'D)

STATION	LOCATION	INLET ID	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
206+24	23' LT	INL 74	1		1	
206+24	16' LT	INL 73	1		1	
207+73	54' LT	INL 77	1			1
207+73	23' LT	INL 78	1		1	
207+73	14' LT	INL 79	1		1	
210+42	54' LT	INL 87	1		1	
212+01	54' LT	INL 88	1		1	
213+44	54' LT	INL 89	1		1	
214+54	54' LT	EXISTING	1		1	
214+64	54' LT	EXISTING	1			1
214+74	54' LT	EXISTING	1		1	
SPRINGVILLE DRIVE						
54+22	19' RT	INL 6	1			1
54+29	19' LT	INL 5	1			1
MACARTHUR WAY						
74+16	22' LT	INL 83	1			1
74+32	21' RT	INL 82	1			1
74+36	51' LT	INL 84	1		1	
74+78	77' LT	INL 85	1		1	
74+86	66' LT	INL 86	1		1	
STAGE 2 SUBTOTAL			55	1	47	8
STAGE 3						
BUSINESS 51						
192+69	30' RT	INL 34	1		1	
192+75	47' RT	INL 35	1		1	
193+30	47' RT	INL 36	1		1	
194+74	47' RT	INL 41	1		1	
194+74	30' RT	INL 40	1			1
197+40	30' RT	INL 48	1		1	
199+16	30' RT	INL 52	1		1	
200+82	31' RT	INL 58	1		1	
202+20	30' RT	INL 64	1		1	
204+63	30' RT	INL 67	1		1	
206+23	30' RT	INL 72	1		1	
207+73	30' RT	INL 80	1			1
207+83	30' RT	INL 81	1		1	
210+42	30' RT	EXISTING	1		1	
212+02	30' RT	EXISTING			1	
213+43	14' LT	INL 91	1		1	
213+44	21' LT	INL 90	1		1	
ROBERTS ROAD						
62+46	19' LT	INL 59	1			1
62+61	20' RT	INL 60	1		1	
STAGE 3 SUBTOTAL			18		16	3
ITEM TOTALS			98	3	77	21

GEOTEXTILE

STATION	LOCATION	645.0120 TYPE HR SY*	645.0130 TYPE R SY
STAGE 1A			
BUSINESS 51			
182+70 - 186+50	RT	1350	
STAGE 1A SUBTOTAL		1350	
STAGE 2			
PATTON DRIVE			
67+00	LT		20
67+36	LT		35
67+90	LT		35
68+76	LT		60
STAGE 2 SUBTOTAL			150
ITEM TOTALS		1350	150

*ADDITIONAL QUANTITIES SHOWN IN STRUCTURE C-49-24 PLANS

FIELD OFFICE TYPE D

STATION	LOCATION	642.5401 EACH
BUSINESS 51		
178+07.46 - 214+37.79		1
ITEM TOTAL		1

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

PERMANENT SIGNING ITEMS

SIGN GROUP NUMBER	SIGN CODE	SIGN MESSAGE	SIZE	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0614 POSTS WOOD 4x6-INCH 14-FT EACH	634.0616 POSTS WOOD 4x6-INCH 16-FT EACH	634.0814 POSTS TUBULAR STEEL 2x2-INCH 14-FT EACH	634.0816 POSTS TUBULAR STEEL 2x2-INCH 16-FT EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SIGN GROUP NUMBER
1-1	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1						1-1
1-2	R4-7	KEEP RIGHT	24 X 30	5.00				1				1-2
1-3	R1-1	STOP	30 X 30	5.18		1						1-3
1-4	R1-1	STOP	30 X 30							1	1	1-4
1-5	R4-7	KEEP RIGHT	24 X 30	5.00				1				1-5
1-6	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1						1-6
1-7	R1-1	STOP	30 X 30							1	1	1-7
1-8	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1						1-8
1-9	R1-1	STOP	30 X 30	5.18		1						1-9
1-10	R4-7	KEEP RIGHT	24 X 30	5.00				1				1-10
1-11	R2-1	SPEED LIMIT 35	24 X 30	5.00		1						1-11
1-12	R2-1	SPEED LIMIT 35	24 X 30							1	1	1-12
1-13	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1						1-13
1-14	R4-7	KEEP RIGHT	24 X 30	5.00				1				1-14
1-15	R4-7	KEEP RIGHT	24 X 30	5.00				1				1-15
1-16	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1						1-16
1-17	R1-1	STOP	30 X 30							1	1	1-17
1-18	R1-1	STOP	30 X 30	5.18		1						1-18
1-19	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1						1-19
1-20	R2-1	SPEED LIMIT 35	24 X 30	5.00		1						1-20
1-21	R2-1	SPEED LIMIT 35	24 X 30							1	1	1-21
2-22	R4-7	KEEP RIGHT	24 X 30	5.00				1				2-22
2-23	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1						2-23
2-24	R4-7	KEEP RIGHT	24 X 30	5.00				1				2-24
2-25	R4-7	KEEP RIGHT	24 X 30	5.00				1				2-25
2-26	S1-1	SCHOOL CROSSING	36 X 36		6.75		1					2-26
2-26	S16-9P	AHEAD	24 X 12		2.00							2-26
2-26	R2-6P	FINES HIGHER	24 X 18		3.00							2-26
2-27	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1						2-27
2-28	R4-7	KEEP RIGHT	24 X 30	5.00				1				2-28
2-29	R4-7	KEEP RIGHT	24 X 30	5.00				1				2-29
2-30	R4-7	KEEP RIGHT	24 X 30	5.00				1				2-30
2-31	R1-1	STOP	30 X 30							1	1	2-31
2-32	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1						2-32
2-33	S1-1	SCHOOL CROSSING	36 X 36							1	1	2-33
2-33	S16-7L	DOWN ARROW	30 X 18							1		2-33
2-34	S1-1	SCHOOL CROSSING	36 X 36		6.75		1					2-34
2-34	S16-7L	DOWN ARROW	30 X 18		3.75							2-34
2-35	R1-1	STOP	30 X 30	5.18		1						2-35
2-36	R2-1	SPEED LIMIT 35	24 X 30							1	1	2-36
2-37	R2-1	SPEED LIMIT 35	24 X 30	5.00		1						2-37
2-38	R6-2R	ONE WAY	24 X 30	5.00				1				2-38
2-39	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1						2-39
2-40	R4-7	KEEP RIGHT	24 X 30	5.00				1				2-40
2-41	R4-7	KEEP RIGHT	24 X 30	5.00				1				2-41
2-42	R4-7	KEEP RIGHT	24 X 30	5.00				1				2-42
2-43	S1-1	SCHOOL CROSSING	36 X 36		6.75				2			2-43
2-43	S16-7R	DOWN ARROW	30 X 18		3.75							2-43
2-43	R4-7	KEEP RIGHT	24 X 30	5.00								2-43
2-44	S1-1	SCHOOL CROSSING	36 X 36		6.75		1					2-44
2-44	S16-7L	DOWN ARROW	30 X 18		3.75							2-44
2-45	S1-1	SCHOOL CROSSING	36 X 36		6.75							2-45
2-45	S16-7R	DOWN ARROW	30 X 18		3.75							2-45
2-46	S1-1	SCHOOL CROSSING	36 X 36							1	1	2-46
2-46	S16-7L	DOWN ARROW	30 X 18							1		2-46
2-47	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1						2-47
2-48	R1-1	STOP	30 X 30							1	1	2-48
2-49	R1-1	STOP	30 X 30	5.18		1						2-49
3-50	S1-1	SCHOOL CROSSING	36 X 36		6.75		1					3-50
3-50	S16-9P	AHEAD	30 X 18		3.75							3-50
3-50	R2-6P	FINES HIGHER	24 X 18		3.00							3-50
3-51	R1-1	STOP	30 X 30							1	1	3-51
3-52	R1-1	STOP	30 X 30	5.18		1						3-52
3-53	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1						3-53
3-54	R4-7	KEEP RIGHT	24 X 30	5.00				1				3-54
3-55	R4-7	KEEP RIGHT	24 X 30	5.00				1				3-55
3-56	R4-7	KEEP RIGHT	24 X 30	5.00				1				3-56
3-57	S1-1	SCHOOL CROSSING	36 X 36							1		3-57
3-57	S16-9P	AHEAD	30 X 18							1	1	3-57
3-58	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1						3-58
ITEM TOTAL				180.08	67.25	22.00	4.00	18.00	2.00	15.00	12.00	

TRAFFIC CONTROL ITEMS

STATION - STATION	DAYS	643.0300 DRUMS NO.	DRUMS DAY	643.0500 FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 FLEXIBLE TUBULAR MARKER BASES EACH	643.0900 SIGNS NO.	SIGNS DAY	643.0410 BARRICADES TYPE II NO.	TYPE II DAY	643.0420 BARRICADES TYPE III NO.	TYPE III DAY	643.0705 WARNING LIGHTS TYPE A NO.	TYPE A DAY	643.0715 WARNING LIGHTS TYPE C NO.	TYPE C DAY	643.0800 ARROW BOARDS NO.	ARROW BOARDS DAY	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125* CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	646.9000 MARKING REMOVAL LINE 4-INCH LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH YELLOW LF	649.0150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH YELLOW LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH WHITE LF	649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF	649.0805 TEMPORARY MARKING STOP LINE PAINT 18-INCH LF	644.1601 TEMPORARY PEDESTRIAN CURB RAMP NO.	644.1601 TEMPORARY PEDESTRIAN CURB RAMP DAY	644.1420 TEMPORARY PEDESTRIAN SURFACE PLYWOOD SF	643.1050 PCMS NO.	643.1050 PCMS DAY
8896-01-03																														
STAGE 1	27																													
MAINLINE		61	1647	26	26	22	594	10	270	1	27	12	324	20	540	2	54	650	650	1274	3011	1411			18		2	54	180		
SIDEROADS						11	297		0		0		0		0		0													
RR CROSS @ 128+62	5					2	10	2	10		0	2	10		0		0													
STAGE 1 SUBTOTALS		61	1647	26	26	35	901	12	280	1	27	14	334	20	540	2	54	650	650	1274.25	3011	1411	0	0	18	0	2	54	180	0	0
STAGE 1A	70																													
MAINLINE	70	148	10360	62	62	24	1680	5	350	17	1190	29	2030	35	2450	2	140			938	7197	4585					2	140	30		
SIDEROADS	70					17	1190			10	700	14	980																	
DETOUR	32		0			202	6464	6	192	12	384	23	736																2	78
STAGE 1A SUBTOTALS		148	10360	62	62	243	9334	11	542	39	2274	66	3746	35	2450	2	140	0	0	937.75	7197	4585	0	0	0	0	2	140	30	2	78
STAGE 1B	44																													
MAINLINE	44	148	6512	62	62	24	1056	5	220	17	748	29	1276	35		2					1200	500					2	88	30		
SIDEROADS	44					17	748			10	440	14	616																	
STAGE 1B SUBTOTALS		148	6512	62	62	41	1804	5	220	27	1188	43	1892	35	1540	2	88	0	0	0	1200	500			0	0	2	88	30		0
STAGE WS																														
MAINLINE	167			128	128	4	668	2	334			2	334										6394	4431		62				
SIDEROADS																														
STAGE WS SUBTOTALS			0	128	128	4	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	6394	4431	0	62	0	0	0		0
STAGE 2	92																													
MAINLINE		118	10856	37	37	18	1656	3	276	22	2024	24	2208	30	2760	2	184	774	774	218	7612	3592									
SIDEROADS						19	1748			9	828	12	1104																	
STAGE 2 SUBTOTALS		118	10856	37	37	37	3404	3	276	31	2852	36	3312	30	2760	2	184	774	774	218	7612	3592	0	0	0	0	0	0	0		0
STAGE 3	42																													
MAINLINE		108	4536	59	59	22	924	4	168	16	672	28	1176	20	840	2	84				6880	3572			292						
SIDEROADS						17	714		0	3	126	4	168																	
STAGE 3 SUBTOTALS		108	4536	59	59	39	1638	4	168	19	798	32	1344	20	840	2	84	0	0	0	6880	3572	0	0	292	0	0	0	0		0
STAGE 4	60																													
MAINLINE		199	11940			17	1020	2	120	18	1080	20	1200	20	1200	1	60			94	8597	368									
SIDEROADS						26	1560																							
STAGE 4 SUBTOTALS		199	11940	0	0	43	2580	2	120	18	1080	20	1200	20	1200	1	60	0	0	94	8597	368	0	0	0	0	0	0	0		0
PROJECT SUBTOTAL																					33297	13528	6394	4431						
ITEM TOTAL			39339	312	312		17857		1386		7031		9936		7790		522	1424	1424	2523		46825		10825		310		62		194	210		78

* ADDITIONAL QUANTITIES SHOWN IN STRUCTURE C-49-24 PLANS.

TRAFFIC CONTROL

STATION	LOCATION	643.5000* EACH
BUSINESS 51		
178+07.46 - 214+37.79		1
ITEM TOTAL		1

PAVEMENT MARKING

STATION - STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH (WHITE) LF	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW) LF	646.3020 MARKING LINE EPOXY 8-INCH (WHITE) LF	646.5020 MARKING ARROW EPOXY (TYPE 2) EACH	646.5020 MARKING ARROW EPOXY (BIKE LANE) EACH	646.5120 MARKING WORD EPOXY (ONLY) EACH	646.5220 MARKING SYMBOL EPOXY (BICYCLE) EACH	646.5320 MARKING RAILROAD CROSSING EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH
6414-00-79														
BUSINESS 51														
178+07.46 - 214+37.79	LT & RT	8100		1204	17							674	617	19
121+75.40 - 178+07.46 (PHASE 1)	LT & RT	14509	2351	2779	36		3		4	507	117	2779	1074	31
214+37.79 - 281+00 (PHASE 2 & 3)	LT & RT	21925	2606	4149	53	15	14	15		373	153	2350	1480	42
MACARTHUR WAY														
75+00 - 72+75	LT & RT		493	52	2					24	45	109		
ITEM SUBTOTAL		44534	5450		108	15								
ITEM TOTAL		49984		8184	123		17	15	4	904	315	5912	3171	92

TEMPORARY SURFACE

STATION - STATION	644.1410 * TEMPORARY PEDESTRIAN SURFACE ASPHALT SF	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF	305.0110 * BASE AGGREGATE DENSE 3/4 INCH TON	305.0120 * BASE AGGREGATE DENSE 1 1/4 INCH TON	465.0125 ** ASPHALTIC SURFACE TEMPORARY TON	465.0310 ASPHALTIC CURB LF	625.0100 * ** TOPSOIL SY	627.0200 * MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0140 * ** SEEDING MIXTURE NO. 40 LB
6414-00-79										
STAGE 1										
PATH AREA	17849			364						
PATH SHOULDERS			49							
STAGE 1A										
TEMP WIDENING STA 191-197				698	428	600				
ADJACENT PATH	2944			60						
PEDESTRIAN ACCESS		1400								
TERRACE/FORESLOPE			60				327	327	0.21	73
TEMP MEDIAN STA 182-195				1884	925					
TEMP WIDENING STA 206-210				233	143					
ADJACENT PATH	2115			44						
TERRACE/FORESLOPE			44				470	470	0.30	104
ITEM TOTAL	22908	1400	153	3283	1496	600	797	797	0.50	177

* ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLANS.
** ADDITIONAL QUANTITIES SHOWN IN STRUCTURE C-49-24 PLANS.

CONSTRUCTION STAKING STORM SEWER

STATION	LOCATION		* 650.4000 EACH
STAGE 1A			
BUSINESS 51			
179+75	29' RT	INL 3	1
180+07	47' RT	INL 4	1
181+42	14' LT	INL 9	1
181+48	30' RT	INL 10	1
181+60	60' RT	TYPE B GRIT	1
184+80	40' RT	TYPE A GRIT	1
184+81	61' RT	AEW 7	1
185+05	30' RT	INL 18	1
185+17	2' LT	INL 17	1
185+17	30' RT	INL 19	1
185+17	60' RT	AEW 5	1
185+35	30' RT	INL 20	1
185+61	61' RT	AEW 4	14
185+78	34' RT	MH 6	1
186+00	40' RT	TYPE C GRIT	1
186+24	6' RT	MH 11	1
187+17	30' RT	INL 24	1
187+17	2' LT	INL 23	1
188+50	30' RT	INL 26	1
190+53	29' RT	MH 15	1
191+14	47' RT	INL 29	1
204+62	111' LT	AEW 1	1
204+63	30' LT	MH 22	1
204+63	54' LT	INL 68	1
204+69	113' LT	AEW 1A	1
204+86	58' LT	MH 32	1
208+97	30' RT	INL E-A5	1
208+97	30' RT	INL E-A5	1
SPRINGVILLE DRIVE			
55+60	16' RT	INL 11	1
55+56	19' LT	INL 12	1
55+88	66' LT	AEW 6	1
RAINBOW DRIVE			
60+60	18' LT	INL 28	1
60+60	18' RT	INL 27	1
60+84	23' LT	INL 92	1
60+84	22' RT	INL 93	1
PATTON DRIVE			
67+00	18' LT	INL 71	1
67+00	18' RT	INL 70	1
67+00	45' LT	AEW 3	1
67+53	18' RT	INL 69	1
68+88	47' LT	AEW 2	1
69+20	21' RT	INL 65	1
69+20	21' LT	INL 66	1
DRIVEWAY 1			
4+18	28' LT		1
4+18	28' RT		1
STAGE 1A SUBTOTAL			57
STAGE 2			
BUSINESS 51			
178+53	54' LT	INL 1	1
179+75	35' LT	MH 2	1
181+39	54' LT	INL 7	1
181+41	22' LT	INL 8	1
185+17	19' LT	INL 16	1
185+17	54' LT	INL 14	1
185+35	54' LT	INL 15	1
186+57	42' LT	MH 10	1
187+17	23' LT	INL 22	1
187+17	42' LT	MH 13	1
187+17	54' LT	INL 21	1
188+50	54' LT	INL 25	1
188+50	37' LT	MH 14	1
189+82	71' LT	INL 15A	1
189+85	30' LT	MH 15A	1
190+47	71' LT	INL 15B	1
192+70	54' LT	INL 31	1
192+70	22' LT	INL 32	1
192+70	14' LT	INL 33	1

CONSTRUCTION STAKING STORM SEWER (CONT'D)

STATION	LOCATION		* 650.4000 EACH
192+91	71' LT	INL 30	1
193+48	71' LT	INL 30A	1
194+58	71' LT	INL 37	1
194+75	54' LT	INL 38	1
194+75	17' LT	INL 42	1
194+75	11' LT	MH 16	1
194+75	4' LT	INL 39	1
197+17	71' LT	INL 44	1
197+39	54' LT	INL 45	1
197+39	30' LT	MH 18	1
197+39	10' LT	INL 46	1
197+39	3' LT	INL 47	1
199+16	54' LT	INL 49	1
199+16	30' LT	MH 19	1
199+16	23' LT	INL 50	1
199+16	14' LT	INL 51	1
200+19	71' LT	INL 53	1
200+75	71' LT	INL 54	1
200+96	54' LT	INL 55	1
200+96	30' LT	MH 20	1
200+96	10' LT	INL 56	1
200+96	3' LT	INL 57	1
202+20	54' LT	INL 61	1
202+20	30' LT	MH 21	1
202+20	15' LT	INL 62	1
202+20	6' LT	INL 63	1
205+60	10' LT	INL 73A	1
206+05	54' LT	INL 75	1
206+24	30' LT	MH 23	1
206+24	23' LT	INL 74	1
206+24	16' LT	INL 73	1
207+73	54' LT	INL 77	1
207+73	30' LT	MH 24	1
207+73	23' LT	INL 78	1
207+73	14' LT	INL 79	1
208+14	4' RT	MH 25	1
208+60	70' LT	TYPE C GRIT	1
210+42	54' LT	INL 87	1
212+01	54' LT	INL 88	1
213+44	54' LT	INL 89	1
SPRINGVILLE DRIVE			
54+22	19' RT	INL 6	1
54+29	19' LT	INL 5	1
MACARTHUR WAY			
73+42	13' RT	MH 28	1
74+16	22' LT	INL 83	1
74+32	21' RT	INL 82	1
74+36	51' LT	INL 84	1
74+43	10' RT	MH 27	1
74+71	9' RT	MH 26	1
74+78	77' LT	INL 85	1
74+86	66' LT	INL 86	1
STAGE 2 SUBTOTAL			69

CONSTRUCTION STAKING STORM SEWER (CONT'D)

STATION	LOCATION		* 650.4000 EACH
STAGE 3			
BUSINESS 51			
192+69	30' RT	INL 34	1
192+75	47' RT	INL 35	1
193+30	47' RT	INL 36	1
194+74	47' RT	INL 41	1
194+74	30' RT	INL 40	1
197+40	30' RT	INL 48	1
199+16	30' RT	INL 52	1
200+82	31' RT	INL 58	1
202+20	30' RT	INL 64	1
204+63	30' RT	INL 67	1
206+23	30' RT	INL 72	1
207+73	30' RT	INL 80	1
207+83	30' RT	INL 81	1
208+75	2' RT	MH-E4	1
208+97	3' RT	MH-E5	1
210+42	3' RT	MH-E6	1
213+43	14' LT	INL 91	1
213+44	21' LT	INL 90	1
ROBERTS ROAD			
62+46	19' LT	INL 59	1
62+61	20' RT	INL 60	1
STAGE 3 SUBTOTAL			20
ITEM TOTAL			146

*ADDITIONAL QUANTITIES SHOWN IN STRUCTURE C-49-24 PLANS

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

CONSTRUCTION STAKING

STATION	LOCATION	650.4500 SUBBGRADE LF	650.5000 BASE LF	650.9920 SLOPE STAKES LF	COMMENTS
STAGE 1A					
BUSINESS 51					
179+00 - 191+15	RT	1215		1215	
191+15 - 197+43	RT	628	628	628	TEMP WIDENING
205+50 - 210+50	RT	500	500	500	TEMP WIDENING
SPRINGVILLE DRIVE					
55+00 - 57+09	LT & RT	209		209	
55+72 - 57+09	LT & RT		137		
RAINBOW DRIVE					
60+00 - 61+32	LT & RT	132		132	
60+67 - 61+32	LT & RT		65		
PATTON DRIVE					
65+75 - 70+00	LT & RT	325		325	
66+75 - 69+03	LT & RT		228		
STAGE 1A SUBTOTAL		3009	1558	3009	
STAGE 2					
BUSINESS 51					
178+08 - 214+38	LT	3630		3630	
SPRINGVILLE DRIVE					
53+00 - 55+00	LT & RT	200		200	
54+09 - 55+00	LT & RT		91		
PATTON DRIVE					
65+45 - 66+75	LT & RT	130	130	130	
MACARTHUR WAY					
72+91 - 75+00	LT & RT	209		209	
72+91 - 74+02	LT & RT		111		
STAGE 2 SUBTOTAL		4169	332	4169	
STAGE 3					
BUSINESS 51					
191+15 - 211+58	RT	2043		2043	
ROBERTS ROAD					
62+00 - 63+45	LT & RT	145		145	
62+78 - 63+45	LT & RT		67		
STAGE 3 SUBTOTAL		2188	67	2188	
STAGE 4					
BUSINESS 51					
178+08 - 214+38	MEDIAN	3630		3630	
STAGE 4 SUBTOTAL		3630		3630	
ITEM TOTALS		12996	1957	12996	

CONSTRUCTION STAKING

STATION	LOCATION	650.5500 CURB GUTTER AND CURB & GUTTER LF
STAGE 1A		
BUSINESS 51		
179+18.41 - 180+12.15	RT	95
SPRINGVILLE DRIVE		
55+72.34 - 57+00.00	LT & RT	255
STAGE 1A SUBTOTAL		350
STAGE 2		
BUSINESS 51		
189+79.36 - 191+02.31	LT	95
192+54.29 - 194+66.46	LT	180
197+09.51 - 197+81.16	LT	75
199+96.43 - 201+08.43	LT	80
202+14.25 - 202+35.28	LT	25
204+98.70 - 205+16.94	LT	25
SPRINGVILLE DRIVE		
53+00.00 - 54+08.75	LT & RT	80
PATTON DRIVE		
65+45.00 - 69+03.00	LT & RT	715
MACARTHUR WAY		
72+90.58 - 74+02.31	LT & RT	195
STAGE 2 SUBTOTAL		1470
STAGE 3		
BUSINESS 51		
191+11.97 - 194+87.93	RT	335
ROBERTS ROAD		
62+77.74 - 63+47.00	LT	40
STAGE 3 SUBTOTAL		375
ITEM TOTAL		2195

CONSTRUCTION STAKING PIPE CULVERTS

STATION	LOCATION	650.6000 EACH	COMMENTS
STAGE 1A			
PATTON DRIVE			
4+18	LT & RT	1	DRIVEWAY 1
STAGE 1A SUBTOTAL		1	
ITEM TOTAL		1	

CONSTRUCTION STAKING CONCRETE PAVEMENT

STATION	LOCATION	650.7000 LF
STAGE 1A		
BUSINESS 51		
179+00.0 - 191+15.0	RT	1215
SPRINGVILLE DRIVE		
55+00.0 - 55+72.0	LT & RT	72
RAINBOW DRIVE		
60+00.0 - 60+67.0	LT & RT	67
STAGE 1A SUBTOTAL		1354
STAGE 2		
BUSINESS 51		
178+07.46 - 214+37.79	LT	3630
SPRINGVILLE DRIVE		
54+09.0 - 55+00.0	LT & RT	91
PATTON DRIVE		
69+03 - 70+00.0		97
MACARTHUR WAY		
74+02.0 - 75+00.0		98
STAGE 2 SUBTOTAL		3916
STAGE 3		
BUSINESS 51		
191+15.0 - 211+58	RT	2043
ROERTS ROAD		
62+00.0 - 62+78.0	LT & RT	78
STAGE 3 SUBTOTAL		2121
ITEM TOTAL		7391

CONSTRUCTION STAKING

STATION	LOCATION	650.8500 ELECTRICAL INSTALLATIONS (PROJECT) LS
BUSINESS 51		
178+07.46 - 214+37.79	LT & RT	1
ITEM TOTAL		1

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CONSTRUCTION STAKING

STATION	LOCATION	650.9910 SUPPLEMENTAL CONTROL (PROJECT) LS
BUSINESS 51		
178+07.46 - 214+37.79	LT & RT	1
ITEM TOTAL		1

SAWING

STATION	LOCATION	* 690.0150 ASPHALT LF	* 690.0250 CONCRETE LF	COMMENTS
STAGE 1A				
BUSINESS 51				
128+62	LT & RT	24		RR CROSSING
179+00.0		31	5	
179+18.4 - 180+11.5	RT	95	2	
180+42.1	RT	34		
SPRINGVILLE DRIVE				
57+09.0	LT & RT	30		
RAINBOW DRIVE				
61+32.20	LT & RT	24		
STAGE 1A SUBTOTAL		214	7	
STAGE 2				
BUSINESS 51				
178+07.46	LT	24	26	
178+09.5	LT	19		
179+60.3	LT		10	
181+28.4 - 181+50.5	LT	24		
186+76.2	LT	13		
188+85.8	LT	26	20	
190+02.0 - 190+78.3	LT	77		
192+54.3 - 194+64.5	LT	209		
196+79.0 - 197+82.9	LT	107		
198+16.4	LT		12	
199+47.5	LT		12	
201+94.5	LT	25	33	
205+29.3	LT	40		
210+84.0	LT	34		
214+08.5	LT	45		
SPRINGVILLE DRIVE				
53+00.0	LT & RT	21		
53+65.0	RT	12		
PATTON DRIVE				
65+45.0	LT & RT	39		
67+40.0	RT	12		
68+50.0	RT	35		
MACARTHUR WAY				
72+90.58	LT & RT	28	2.5	
72+90.58 - 73+25.0	R/L	34		
73+25.0	LT	20	2.5	
73+65.8	LT		24	
STAGE 2 SUBTOTAL		844	142	
STAGE 3				
BUSINESS 51				
191+12.0 - 194+87.2	RT	380		
202+83.6 - 203+34.2	RT	51		
203+98.6	RT	35		
205+39.4	RT		19	
207+02.7	RT	10	10	
208+43.4	RT		20	
210+21.1	RT	15		
211+79.5	RT	31		
ROBERTS ROAD				
62+60.00 - 63+45.0	LT	89		
63+45.0	LT & RT	38		
STAGE 3 SUBTOTAL		649	49	
ITEM TOTALS		1707	198	

*ADDITIONAL QUANTITIES SHOWN IN STRUCTURE C-49-24 PLANS

RAILING

STATION	LOCATION	SPV.0090.04 LF	COMMENT
STAGE 1A			
BUSINESS 51			
184+41.92	RT	32	MCDILL FISHING PLATFORM
ITEM TOTAL		32	

CONSTRUCTION STAKING INFILTRATION BASIN

STATION	LOCATION	SPV.0105.01 LS
STAGE 2		
PATTON DRIVE		
65+67 - 69+26	LT	1
STAGE 2 SUBTOTAL		1
ITEM TOTAL		1

LINING STORM SEWER PIPES

LOCATION	SPV.0090.05 UV GRP CIPP 36-INCH LF	SPV.0090.06 UV GRP CIPP 54-INCH LF
GILMAN DRIVE	243	
MACARTHUR WAY		350
ITEM TOTALS	243	350

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LIGHTING CONDUIT AND WIRE

FROM	-	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	REMARKS
ALL ITEMS ARE CATEGORY 0010					
STUB	-	SL 215	90	925	--
SL 215	-	SL 216	180	950	--
SL 216	-	SL 217	180	950	--
SL 217	-	SL 218	180	950	--
SL 218	-	SL 219	185	975	--
SL 219	-	SL 220	170	900	--
SL 220	-	SL 221	180	950	--
SL 221	-	SL 222	170	900	--
SL 222	-	SL 223	150	800	--
SL 223	-	SL 224	180	950	--
SL 224	-	SL 225	180	950	--
SL 225	-	SL 226	170	900	--
SL 226	-	SL 300	175	--	PULL WIRE ONLY
SL 300	-	SL 301	175	925	--
SL 301	-	SL 302	175	925	--
SL 302	-	SL 303	175	925	--
SL 303	-	SL 304	160	850	--
SL 304	-	SL 305	175	925	--
SL 305	-	SL 306	170	900	--
SL 306	-	SL 307	175	925	--
SL 307	-	SL 308	175	925	--
SL 308	-	EXPB 300	170	915	--
EXPB 300	-	EXSL 309	--	115	--
PROJECT TOTALS			3,740	19,315	

STREET LIGHTS

LIGHT NUMBER	STATION	OFFSET	R/L	654.0106 CONCRETE BASES TYPE 6 EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0327 POLES TYPE 6 ALUMINUM EACH	657.0605 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 4-FT EACH	659.1115 LUMINAIRES UTILITY LED A EACH	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF
ALL ITEMS ARE CATEGORY 0010									
SL 215	179+06	6.0'	LT	1	1	1	2	2	282
SL 216	180+83	18.0'	LT	1	1	1	2	2	282
SL 217	182+60	5.6'	LT	1	1	1	2	2	282
SL 218	184+33	7.4'	LT	1	1	1	2	2	282
SL 219	186+15	12.0'	LT	1	1	1	2	2	282
SL 220	187+84	15.6'	LT	1	1	1	2	2	282
SL 221	189+58	18.0'	LT	1	1	1	2	2	282
SL 222	191+24	6.5'	LT	1	1	1	2	2	282
SL 223	192+64	18.1'	LT	1	1	1	2	2	282
SL 224	194+40	7.2'	LT	1	1	1	2	2	282
SL 225	196+15	18.0'	LT	1	1	1	2	2	282
SL 226	197+79	6.0'	LT	1	1	1	2	2	282
SL 300	199+49	18.0'	LT	1	1	1	2	2	282
SL 301	201+18	6.0'	LT	1	1	1	2	2	282
SL 302	202+89	17.8'	LT	1	1	1	2	2	282
SL 303	204+58	6.0'	LT	1	1	1	2	2	282
SL 304	206+13	18.0'	LT	1	1	1	2	2	282
SL 305	207+83	18.0'	LT	1	1	1	2	2	282
SL 306	209+51	6.0'	LT	1	1	1	2	2	282
SL 307	211+21	12.0'	LT	1	1	1	2	2	282
SL 308	212+93	18.0'	LT	1	1	1	2	2	282
PROJECT TOTALS				21	21	21	42	42	5922

CONCRETE CURE & SEAL TREATMENT

STATION	LOCATION	SPV.0165.01 SF	COMMENT
STAGE 1A			
BUSINESS 51			
179+00.00 - 181+77.16	RT	1240	SIDEWALK
180+42.1	RT	495	DRIVEWAY
182+26.29 - 190+46.21	RT	4920	SIDEWALK
190+90.88 - 191+15.00	RT	150	SIDEWALK
SPRINGVILLE DRIVE			
55+39.08 - 56+41.28	RT	915	SIDEWALK
56+62.0	RT	270	DRIVEWAY
STAGE 1A SUBTOTAL		7990	
CATEGORY 0040			
BUSINESS 51			
179+50 - 181+67	RT	1610	STAMPED CONCRETE
182+36 - 190+38	RT	4750	STAMPED CONCRETE
CATEGORY 0040 SUBTOTAL		6360	
STAGE 2			
BUSINESS 51			
178+09.5	LT	270	DRIVEWAY
178+28.34 - 181+65.18	LT	2000	SIDEWALK
179+60.3	LT	315	DRIVEWAY
182+12.02 - 203+70.84	LT	10625	SIDEWALK
186+76.2	LT	225	DRIVEWAY
187+63.0	LT	405	DRIVEWAY
188+85.8	LT	630	DRIVEWAY
190+75.9	LT	495	DRIVEWAY
193+19.6	LT	495	DRIVEWAY
194+86.6	LT	495	DRIVEWAY
196+89.4	LT	495	DRIVEWAY
198+16.4	LT	720	DRIVEWAY
199+47.5	LT	495	DRIVEWAY
200+47.5	LT	495	DRIVEWAY
201+94.5	LT	1125	DRIVEWAY
204+30.70 - 208+11.72	LT	1735	SIDEWALK
205+29.3	LT	315	DRIVEWAY
206+40.0	LT	495	DRIVEWAY
208+64.57 - 213+84.46	LT	2975	SIDEWALK
210+84.0	LT	450	DRIVEWAY
214+08.5	LT	630	DRIVEWAY
PATTON DRIVE			
65+45.00 - 69+33.50	LT	2285	SIDEWALK
65+45.00 - 69+33.50	RT	1855	SIDEWALK
66+50.0	RT	495	DRIVEWAY
67+40.0	RT	225	DRIVEWAY
67+58.0	LT	225	DRIVEWAY
68+50.0	RT	495	DRIVEWAY
MACARTHUR WAY			
73+65.8	LT	315	DRIVEWAY
73+65.8	RT	405	DRIVEWAY
STAGE 2 SUBTOTAL		32185	
CATEGORY 0040			
BUSINESS 51			
178+28 - 181+56	LT	1890	STAMPED CONCRETE
182+24 - 190+55	LT	3510	STAMPED CONCRETE
190+97 - 196+68	LT	3250	STAMPED CONCRETE
197+10 - 203+59	LT	3450	STAMPED CONCRETE
204+43 - 207+73	LT	1770	STAMPED CONCRETE
208+74 - 214+48	LT	2870	STAMPED CONCRETE
CATEGORY 0040 SUBTOTAL		16740	
STAGE 3			
BUSINESS 51			
191+15.00 - 200+09.73	RT	4574	SIDEWALK
193+02.8	RT	675	DRIVEWAY
195+26.3	RT	270	DRIVEWAY
196+37.3	RT	270	DRIVEWAY
197+91.0	RT	495	DRIVEWAY
200+63.52 - 212+70.83	RT	6000	SIDEWALK

CONCRETE CURE & SEAL TREATMENT (CONT'D)

STATION	LOCATION	SPV.0165.01 SF	COMMENT
203+98.6	RT	495	DRIVEWAY
205+39.4	RT	495	DRIVEWAY
207+02.7	RT	540	DRIVEWAY
208+43.4	RT	855	DRIVEWAY
209+75.0	RT	315	DRIVEWAY
210+21.1	RT	315	DRIVEWAY
211+79.5	RT	495	DRIVEWAY
STAGE 3 SUBTOTAL		15794	
CATEGORY 0040			
BUSINESS 51			
190+99 - 192+80	RT	4595	STAMPED CONCRETE
193+36 - 197+71	RT	2790	STAMPED CONCRETE
198+11 - 199+99	RT	1090	STAMPED CONCRETE
200+75 - 212+70	RT	5700	STAMPED CONCRETE
CATEGORY 0040 SUBTOTAL		14175	
STAGE 4			
BUSINESS 51			
178+44.6	MEDIAN	48	ISLAND NOSE
181+54.4	MEDIAN	48	ISLAND NOSE
182+35.9	MEDIAN	48	ISLAND NOSE
190+32.6	MEDIAN	48	ISLAND NOSE
191+12.3	MEDIAN	48	ISLAND NOSE
192+79.8	MEDIAN	48	ISLAND NOSE
193+59.3	MEDIAN	48	ISLAND NOSE
196+49.6	MEDIAN	48	ISLAND NOSE
197+29.0	MEDIAN	48	ISLAND NOSE
203+40.77 - 203+46.66	MEDIAN	50	SIDEWALK
200+04.4	MEDIAN	48	ISLAND NOSE
200+84.1	MEDIAN	48	ISLAND NOSE
203+61.2	MEDIAN	48	ISLAND NOSE
204+40.4	MEDIAN	48	ISLAND NOSE
206+31.9	MEDIAN	48	ISLAND NOSE
206+48.7	MEDIAN	66	ISLAND NOSE
208+01.8	MEDIAN	48	ISLAND NOSE
208+81.1	MEDIAN	48	ISLAND NOSE
213+56.2	MEDIAN	48	ISLAND NOSE
STAGE 4 SUBTOTAL		932	
CATEGORY 0040			
BUSINESS 51			
178+52 - 181+47	MEDIAN	2140	STAMPED CONCRETE
182+43 - 190+26	MEDIAN	9600	STAMPED CONCRETE
191+19 - 192+73	MEDIAN	1050	STAMPED CONCRETE
193+66 - 196+43	MEDIAN	2360	STAMPED CONCRETE
197+36 - 199+97	MEDIAN	2190	STAMPED CONCRETE
200+91 - 203+54	MEDIAN	1775	STAMPED CONCRETE
204+47 - 206+25	MEDIAN	1225	STAMPED CONCRETE
206+56 - 207+95	MEDIAN	960	STAMPED CONCRETE
208+88 - 213+49	MEDIAN	4980	STAMPED CONCRETE
CATEGORY 0040 SUBTOTAL		26280	
CATEGORY 0040 TOTAL		63555	
ITEM TOTAL		120456	

BACKFILL GRANULAR GRADE 2 SPECIAL

STATION	LOCATION	* SPV.0195.01 TON	COMMENT
BUSINESS 51			
182+75 - 186+50	RT	14330	SPRINGVIILE DAM BACKFILL
ITEM TOTAL		14330	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLAN

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.

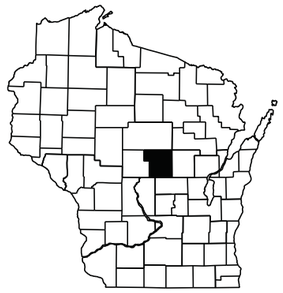
DOT COMPOSITE: ORIGINAL DOCUMENT LOCATED AT THE REGISTER OF DEEDS OFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

765584

TRANSPORTATION PROJECT PLAT TITLE SHEET

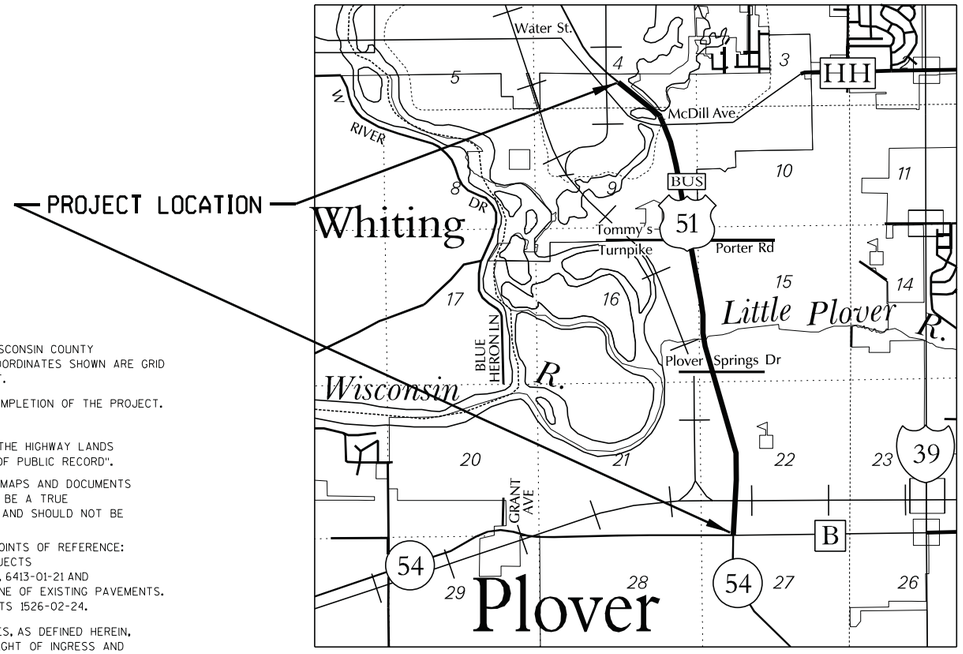
PROJECT NO. 6414-00-25
BUSINESS 51, VILLAGE OF PLOVER & WHITING
(STH 54 TO MINNESOTA AVENUE)
PORTAGE COUNTY



ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Portage COUNTY, WISCONSIN AT 9:15AM ON December 20, 2011 AS DOCUMENT # 765584 AND FILED IN _____

Cynthia Wiesneski
SIGNATURE OF REGISTER OF DEEDS
env. $50 $26.00

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LAYOUT
SCALE 0 .5 MI.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, PORTAGE COUNTY ZONE, NAD83 (2007) 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 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT. (TYPICALLY 3/4"X24" RE-BAR)

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.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR BUS 51 ESTABLISHED FROM PREVIOUS PROJECTS 1526-02-24, 6998-01-21, F05-3(34), 6998-01-21, 6414-01-71, 6414-00-21, 6998-01-16, 6413-01-21 AND EXISTING HIGHWAY RIGHT-OF-WAY FOR SIDE ROADS ESTABLISHED FROM CENTERLINE OF EXISTING PAVEMENTS. EXISTING ACCESS CONTROL ALONG BUS 51 ESTABLISHED FROM PREVIOUS PROJECTS 1526-02-24.

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

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.

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 NECESSARY OR DESIRABLE.

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

DISTANCES SHOWN TO BUILDINGS ARE APPROXIMATE.

EXISTING RIGHT OF WAY COMPUTATIONS AND EXISTING MONUMENT COORDINATES VALUES PROVIDED BY AECOM UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION NORTH CENTRAL REGION.

CONVENTIONAL ABBREVIATIONS

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

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⌀ (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	●(SET)	PROPERTY LINE	
R/W STANDARD	▲(SET)	LOT & TIE LINES	
SIGN	ISIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		ACCESS RESTRICTION (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		ACCESS RESTRICTION (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		ACCESS RESTRICTION (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWB20	QUARTER LINE	
PARCEL NUMBER	102	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

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

SEH
401 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6414-00-25 - 4.01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : P:\UZW\Witnc\112424\CAD\040101 RP.dgn
PLOT DATE : 12/8/2011
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : N/A
APPRAISAL PLAT DATE :

DOT COMPOSITE: ORIGINAL DOCUMENT LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 6414-00-25 - 4.01 AMENDMENT NO. 2

AMENDS UTILITY NO. 200 AND PROVIDES CLARIFICATION OF ALL UTILITY LOCATIONS TO TRANSPORTATION PROJECT PLAT NO. 6414-00-25-4.01 AMENDMENT NO. 1 RECORDED AS DOCUMENT NO. 786948

BUS. 51 VILLAGE OF PLOVER & WHITING, (STH 54 - MINNESOTA AVE.)

PART OF LOT 1, CSM NO. 6847, PART OF LOT 2, CSM NO. 6843, AND PART OF LOT 13, PLOVER ASSESSOR'S PLAT NO. 2 LOCATED IN AND INCLUDING PART OF THE SW 1/4 OF THE SW 1/4; PART OF LOTS 6, 8, & 13 OF PLOVER ASSESSOR'S PLAT NO. 2, AND PART OF LOT 1, CSM NO. 10059, LOCATED IN AND INCLUDING PART OF THE SE 1/4 OF THE SW 1/4; ALL IN SECTION 22, T23N, R8E, VILLAGE OF PLOVER, PORTAGE COUNTY WISCONSIN.

RELOCATION ORDER BUS. 51 PORTAGE 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.

UTILITY INTEREST TABLE			
UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
200	3	EASEMENT	DOC. * 367991
	4	EASEMENT	DOC. *368011
	4	EASEMENT	DOC. * 368272
	4	EASEMENT	DOC. * 368273
	13	EASEMENT	DOC. * 367998
	14	EASEMENT	VOL. 440 PG. 506
210	14	EASEMENT	VOL. 144 PG. 497

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	EXISTING	TOTAL	TLE S.F.
3	M&I MID-STATE BANK NA	FEE/AR/TLE	1245	-	1245	1525
4	VILLAGE OF PLOVER	FEE/TLE	2405	-	2405	2795
11	JASA VENTURES LLC	FEE/AR	1565	-	1565	-
12	SANDY'S BAR LLC.	FEE/AR/TLE	955	-	955	570
13	JOHN W. FAHRNER, JEROLD P FAHRNER, ETAL.	FEE/AR/TLE	2860	-	2860	1370
14	JOHN D. & THERESA K. CARPONTER	FEE/AR/TLE	3690	-	3690	160

794550

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Portage COUNTY, WISCONSIN AT 9:45AM ON April 2, 2014 AS DOCUMENT # 794550 AND FILED IN Vol. 350

SIGNATURE OF REGISTER OF DEEDS

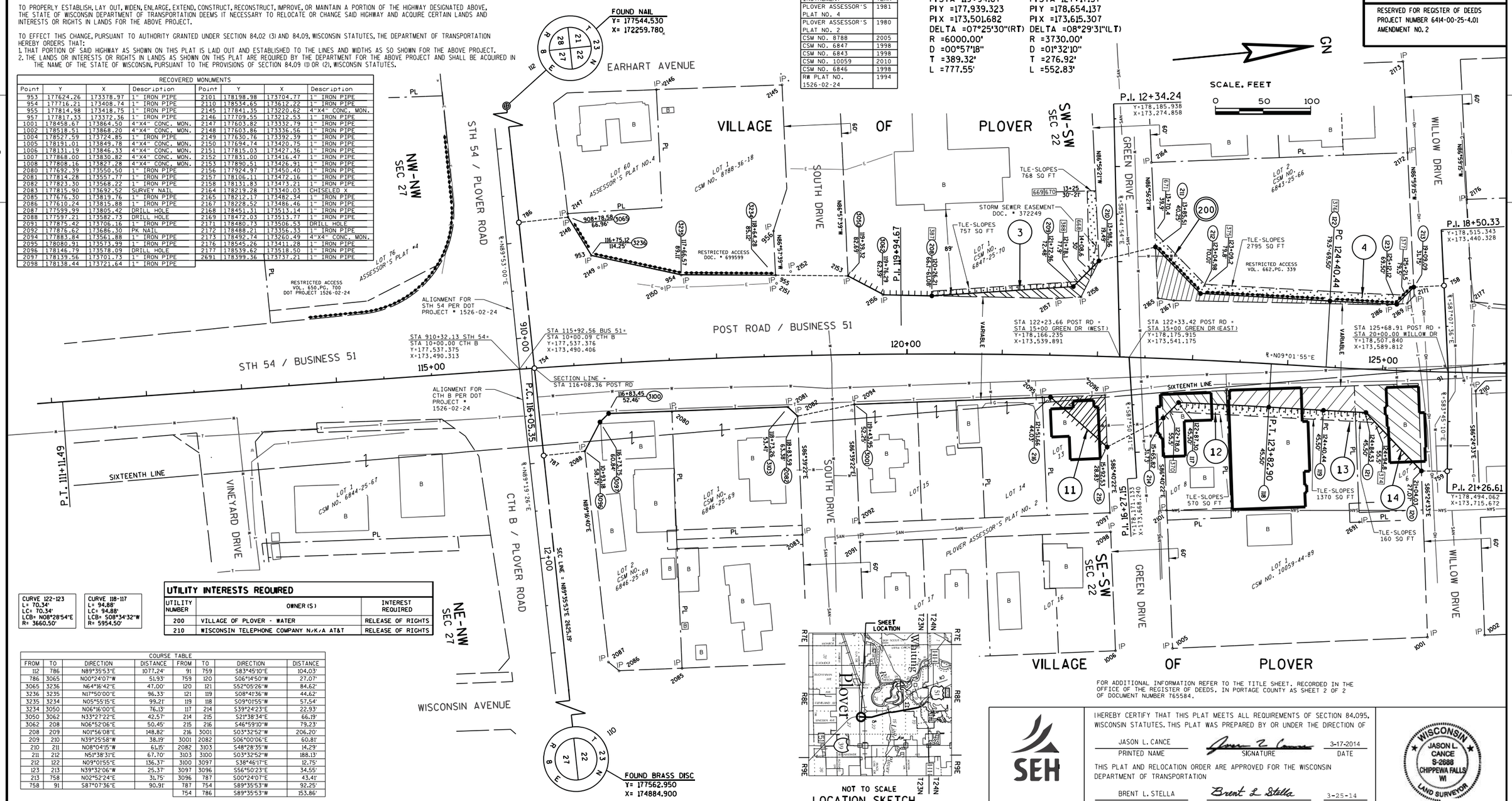
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6414-00-25-4.01
AMENDMENT NO. 2

BASIS OF R/W	
INSTRUMENT	YEAR
PLOVER ASSESSOR'S PLAT NO. 4	1981
PLOVER ASSESSOR'S PLAT NO. 2	1980
CSM NO. 8788	2005
CSM NO. 6847	1998
CSM NO. 6843	1998
CSM NO. 10059	2010
CSM NO. 6846	1998
RW PLAT NO. 1526-02-24	1994

PISTA 119+94.67
PIY =177,939.323
PIX =173,501.682
DELTA =07°25'30"(RT)
R =6000.00'
D =00°57'18"
T =389.32'
L =777.55'

PISTA 127+17.37
PIY =178,654.137
PIX =173,615.307
DELTA =08°29'31"(LT)
R =3730.00'
D =01°32'10"
T =276.92'
L =552.83'

RECOVERED MONUMENTS							
Point	Y	X	Description	Point	Y	X	Description
953	177624.26	173378.97	1" IRON PIPE	2101	178198.98	173704.77	1" IRON PIPE
954	177716.21	173408.74	1" IRON PIPE	2110	178534.65	173612.22	1" IRON PIPE
955	177814.98	173418.75	1" IRON PIPE	2145	177841.35	173220.62	4"X4" CONC. MON.
957	177817.33	173372.36	1" IRON PIPE	2146	177709.55	173212.53	1" IRON PIPE
1001	178458.67	173864.50	4"X4" CONC. MON.	2147	177603.82	173332.79	1" IRON PIPE
1002	178518.51	173868.20	4"X4" CONC. MON.	2148	177603.86	173336.56	1" IRON PIPE
1004	178527.59	173724.85	1" IRON PIPE	2149	177630.78	173392.39	1" IRON PIPE
1005	178191.01	173849.78	4"X4" CONC. MON.	2150	177694.74	173420.75	1" IRON PIPE
1006	178131.19	173846.33	4"X4" CONC. MON.	2151	177815.03	173427.36	1" IRON PIPE
1007	177868.00	173830.82	4"X4" CONC. MON.	2152	177831.00	173416.47	1" IRON PIPE
1008	177808.16	173827.28	4"X4" CONC. MON.	2153	177890.51	173426.91	1" IRON PIPE
2080	177692.39	173550.50	1" IRON PIPE	2156	177924.97	173450.40	1" IRON PIPE
2081	177814.28	173557.77	1" IRON PIPE	2157	178106.11	173472.16	1" IRON PIPE
2082	177823.30	173568.22	1" IRON PIPE	2158	178131.83	173473.21	1" IRON PIPE
2083	177815.90	173592.52	SURVEY NAIL	2164	178219.28	173340.03	CHISELED X
2085	177676.30	173819.76	1" IRON PIPE	2165	178212.17	173482.34	1" IRON PIPE
2086	177610.24	173815.88	1" IRON PIPE	2167	178228.52	173486.46	1" IRON PIPE
2087	177599.99	173805.42	DRILL HOLE	2168	178451.31	173513.14	1" IRON PIPE
2088	177597.21	173582.73	DRILL HOLE	2169	178472.03	173513.77	1" IRON PIPE
2091	177875.42	173706.16	1" IRON PIPE	2171	178480.73	173506.93	DRILL HOLE
2092	177876.62	173686.30	PK NAIL	2172	178488.21	173356.33	1" IRON PIPE
2094	177883.84	173561.88	1" IRON PIPE	2173	178492.74	173260.49	4"X4" CONC. MON.
2095	178080.91	173573.99	1" IRON PIPE	2176	178545.26	173411.28	1" IRON PIPE
2096	178146.79	173578.09	DRILL HOLE	2177	178539.62	173518.50	1" IRON PIPE
2097	178139.56	173701.73	1" IRON PIPE	2691	178399.36	173737.21	1" IRON PIPE
2098	178138.44	173721.64	1" IRON PIPE				



CURVE 122-123	CURVE 118-117
L= 70.34'	L= 94.88'
LC= 70.34'	LC= 94.88'
LCB= N08°28'54"E	LCB= S08°34'32"W
R= 3660.50'	R= 5954.50'

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	VILLAGE OF PLOVER - WATER	RELEASE OF RIGHTS
210	WISCONSIN TELEPHONE COMPANY N/K/A AT&T	RELEASE OF RIGHTS

COURSE TABLE							
FROM	TO	DIRECTION	DISTANCE	FROM	TO	DIRECTION	DISTANCE
112	786	N89°35'53"E	1077.24'	91	759	S83°45'10"E	104.03'
786	3065	N00°24'07"W	51.93'	759	120	S06°14'50"W	27.07'
3065	3236	N64°16'42"E	47.00'	120	121	S52°05'26"W	84.62'
3236	3235	N17°50'00"E	96.33'	121	119	S08°41'36"W	44.62'
3235	3234	N05°55'15"E	99.21'	119	118	S09°01'55"W	57.54'
3234	3050	N06°16'00"E	76.13'	117	214	S39°24'23"E	22.93'
3050	3062	N33°27'22"E	42.57'	214	215	S21°38'34"E	66.19'
3062	208	N06°52'06"E	50.45'	215	216	S46°59'10"W	79.23'
208	209	N01°56'08"E	148.82'	216	3001	S03°32'52"W	206.20'
209	210	N39°25'58"W	38.19'	3001	2082	S06°00'06"E	60.81'
210	211	N08°04'15"W	61.15'	2082	3103	S48°28'35"W	14.29'
211	212	N51°38'31"E	67.70'	3103	3100	S03°32'52"W	188.13'
212	122	N09°01'55"E	136.37'	3100	3097	S38°46'17"E	12.75'
123	213	N39°32'06"W	25.37'	3097	3096	S56°50'23"E	34.55'
213	758	N02°52'24"E	31.75'	3096	787	S00°24'07"E	43.41'
758	91	S87°07'36"E	90.91'	787	754	S89°35'53"W	92.25'
				754	786	S89°35'53"W	153.86'

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET. RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN PORTAGE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 765584.

SEH

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF

JASON L. CANCE — PRINTED NAME — SIGNATURE — 3-17-2014 DATE

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

BRENT L. STELLA — PRINTED NAME — Brent L Stella — SIGNATURE — 3-25-14 DATE

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

FILE NAME : P:\UZ\W\Witnc\112545\5-final-dsgn\51-drawings\40-TransHwy\040102 RP.dgn
PLOT DATE : 3/17/2014 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A
APPRAISAL PLAT DATE :

DOT COMPOSITE: ORIGINAL DOCUMENT LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 6414-00-25 - 4.02 AMENDMENT NO. 2

AMENDS UTILITY NO. 200 AND PROVIDES CLARIFICATION OF ALL UTILITY LOCATIONS TO TRANSPORTATION PROJECT PLAT NO. 6414-00-25 AMENDMENT NO. 1 RECORDED AS DOCUMENT NO. 786949.

BUS. 51, VILLAGE OF PLOVER & WHITING (STH 54 - MINNESOTA AVE.)

PART OF LOTS 1, 2, & OUTLOT 1 OF PLOVER ASSESSOR'S PLAT NO. 2, PART OF OUTLOT 1 & LOT 67 PLOVER ASSESSOR'S PLAT NO. 3, PART OF LOT 1, CSM NO. 6792, LOCATED IN AND INCLUDING PART OF THE SE 1/4 OF THE SW 1/4, PART OF LOTS 38, 39, 42, 66, 67 & OUTLOT 1 OF PLOVER ASSESSOR'S PLAT NO. 3, PART OF LOTS 56, 58, & 59 OF PLOVER ASSESSOR'S PLAT NO. 5, PART OF LOTS 1 & 2 OF CSM NO. 3672, LOCATED IN AND INCLUDING PART OF THE NE 1/4 OF THE SW 1/4; PART OF OUTLOT 2 OF PLOVER ASSESSOR'S PLAT NO. 4, PART OF OUTLOT 2 OF PLOVER ASSESSOR'S PLAT NO. 5 AND PART OF LOT 1, CSM NO. 6843, PART OF POST ROAD PROPERTIES CONDOMINIUM, LOCATED IN AND INCLUDING PART OF THE SW 1/4 OF THE SW 1/4; PART OF LOTS 56, 58 THRU 59, 61, & OUTLOT 2 OF ASSESSOR'S PLAT NO. 5, PART OF POST ROAD PROPERTIES CONDOMINIUM, PART OF LOT 79.1, CSM NO. 2950, LOCATED IN AND INCLUDING PART OF THE NW 1/4 OF THE SW 1/4; ALL IN SECTION 22, T23N, R8E, VILLAGE OF PLOVER, PORTAGE COUNTY, WISCONSIN

RELOCATION ORDER BUS 51 PORTAGE 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.

UTILITY INTEREST TABLE

UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
200	16	EASEMENT	DOC. # 367999
	16	EASEMENT	DOC. # 368000
	16	EASEMENT	DOC. # 368131
	16	EASEMENT	DOC. # 368021
	16	EASEMENT	DOC. # 368023
	18	EASEMENT	DOC. # 367996
	20	EASEMENT	DOC. # 368002
	21	EASEMENT	DOC. # 367997
	22	EASEMENT	DOC. # 368140
	23	EASEMENT	DOC. # 368142
	23	EASEMENT	DOC. # 367993
	24	EASEMENT	DOC. # 368014
	25	EASEMENT	DOC. # 368012
	29	EASEMENT	DOC. # 368025
201	22	NO EASEMENT OF RECORD	
	23	EASEMENT	DOC. # 452907
	28	NO EASEMENT OF RECORD	
210	18	EASEMENT	DOC. # 387220
	19	NO EASEMENT OF RECORD	
	23	EASEMENT	DOC. # 231281
	23	CON. OF RIGHTS	DOC. # 367100
	23	NO EASEMENT OF RECORD	
	26	EASEMENT	DOC. # 230558
	27	EASEMENT	DOC. # 230558
220	16	NO EASEMENT OF RECORD	
221	18	NO EASEMENT OF RECORD	
	18	EASEMENT	DOC. # 387220
	28	NO EASEMENT OF RECORD	

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	R/W S.F. REQUIRED EXISTING	R/W S.F. REQUIRED TOTAL	HE S.F.	TLE S.F.
16	ASSOCIATED BANK, NATIONAL ASSOCIATION	FEE/AR/TLE	2270	-	2270	-	2625
17	WISCONSIN CENTRAL LTD.	HE/TLE	-	-	-	3685	1275
18	BEST INVESTMENT PROPERTIES LLC.	FEE/AR/TLE	1775	-	1775	-	2500
19	THEODORE MILLER	FEE/AR/TLE	2910	-	2910	-	6525
20	WOW COMMERCIAL VENTURES LLC.	FEE/AR/TLE	8990	-	8990	-	4080
21	MAYNARD & JUDITH A. KLOSINSKI	FEE/AR/TLE	11815	-	11815	-	880
22	DANIEL L. & MARY A. KOWALSKI	FEE/AR/TLE	5565	-	5565	-	1005
23	JMK DEVELOPMENT LLC.	FEE/AR/TLE	8790	-	8790	-	5865
24	EMERANCE D. & MARION DANIELSKI	FEE/AR/TLE	5375	-	5375	-	1415
25	KENNETH L. LEPACK (VENDOR) ST. VINCENT DEPAUL COMMUNITY CENTER OF PORTAGE COUNTY INC. (PURCHASER)	FEE/AR/TLE	4585	-	4585	-	1140
26	COMMUNITY FIRST BANK	FEE/AR/TLE	4830	-	4830	-	3215
27	SCOTT DONALD SHURPIT	FEE/AR/TLE	5950	-	5950	-	4775
28	DENNIS J. & NANCY S. FREUND	FEE	26915	-	26915	-	-
29	BRUCE WICHALSKI	FEE/AR/TLE	9920	-	9920	-	685

794551

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Portage COUNTY, WISCONSIN AT 9:06 AM ON April 2, 2014 AS DOCUMENT # 791551 AND FILED IN Env. # 50

Sharon A. Hall & Dep. SIGNATURE OF REGISTER OF DEEDS $25.00

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6414-00-25-4.02
AMENDMENT NO. 2

PISTA 498+06.75
PIY =179,164.382
PIX =173,427.078
DELTA =07°23'05"(LT)
R =300.00'
D =19°05'55"
T =19.36'
L =38.67'

PISTA 498+40.47
PIY =179,167.449
PIX =173,460.709
DELTA =08°14'32"(RT)
R =200.00'
D =28°38'52"
T =14.41'
L =28.77'

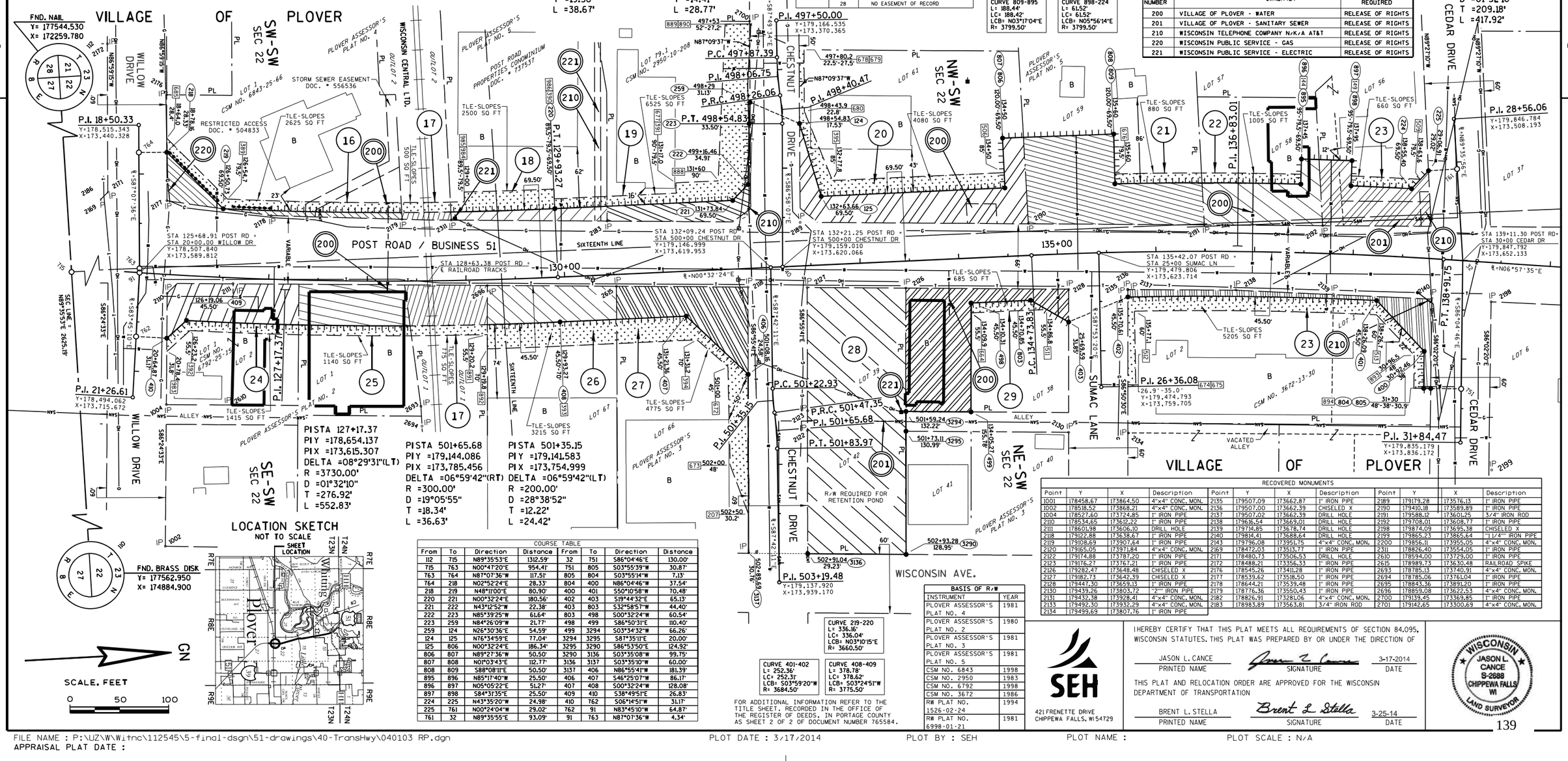
CURVE 809-895
L= 188.44'
LC= 188.42'
LCB= N03°17'04"E
R= 3799.50'

CURVE 898-224
L= 61.52'
LC= 61.52'
LCB= N05°56'14"E
R= 3799.50'

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	VILLAGE OF PLOVER - WATER	RELEASE OF RIGHTS
201	VILLAGE OF PLOVER - SANITARY SEWER	RELEASE OF RIGHTS
210	WISCONSIN TELEPHONE COMPANY N/K/A AT&T	RELEASE OF RIGHTS
220	WISCONSIN PUBLIC SERVICE - GAS	RELEASE OF RIGHTS
221	WISCONSIN PUBLIC SERVICE - ELECTRIC	RELEASE OF RIGHTS

PISTA 136+83.01
PIY =179,620.751
PIX =173,624.418
DELTA =06°25'10"(RT)
R =3730.00'
D =01°32'10"
T =209.18'
L =417.92'



RECOVERED MONUMENTS											
Point	Y	X	Description	Point	Y	X	Description	Point	Y	X	Description
1001	178458.67	173864.50	4"x4" CONC. MON.	2135	179507.09	173662.87	1" IRON PIPE	2189	179179.28	173576.13	1" IRON PIPE
1002	178518.52	173868.21	4"x4" CONC. MON.	2136	179507.00	173662.39	CHISELED X	2190	179410.18	173589.89	1" IRON PIPE
1004	178527.60	173724.85	1" IRON PIPE	2137	179507.02	173662.39	DRILL HOLE	2191	179588.12	173601.25	3/4" IRON ROD
2110	178534.65	173612.22	1" IRON PIPE	2138	179616.54	173669.01	DRILL HOLE	2192	179708.01	173608.77	1" IRON PIPE
2111	178601.98	173606.10	DRILL HOLE	2139	179714.85	173678.14	DRILL HOLE	2198	179874.09	173695.38	CHISELED X
2118	179122.88	173638.67	1" IRON PIPE	2140	179814.41	173688.64	DRILL HOLE	2199	179865.23	173865.64	"1/4"" IRON PIPE
2119	179108.69	173907.64	1" IRON PIPE	2143	179796.08	173951.75	4"x4" CONC. MON.	2200	179856.11	173955.05	4"x4" CONC. MON.
2120	179165.05	173971.84	4"x4" CONC. MON.	2169	178472.03	173513.77	1" IRON PIPE	2311	178826.40	173554.05	1" IRON PIPE
2122	179174.88	173787.20	1" IRON PIPE	2171	178480.73	173506.53	DRILL HOLE	2610	178594.00	173729.00	1" IRON PIPE
2123	179176.27	173767.21	1" IRON PIPE	2172	178488.21	173356.33	1" IRON PIPE	2615	178989.73	173630.48	RAILROAD SPIKE
2126	179282.47	173648.48	CHISELED X	2176	178545.26	173411.28	1" IRON PIPE	2693	178785.13	173740.91	4"x4" CONC. MON.
2127	179182.73	173642.39	CHISELED X	2177	178539.62	173518.50	1" IRON PIPE	2694	178785.06	173761.04	1" IRON PIPE
2128	179447.30	173659.13	1" IRON PIPE	2178	178644.21	173539.48	1" IRON PIPE	2695	178843.36	173691.20	1" IRON PIPE
2130	179439.26	173803.72	"2"" IRON PIPE	2179	178776.36	173550.43	1" IRON PIPE	2696	178859.08	173622.53	4"x4" CONC. MON.
2131	179432.38	173928.41	4"x4" CONC. MON.	2182	178826.91	173281.06	4"x4" CONC. MON.	2700	179139.45	173369.85	1" IRON PIPE
2133	179492.30	173932.29	4"x4" CONC. MON.	2183	178983.89	173563.81	3/4" IRON ROD	2701	179142.65	173300.69	4"x4" CONC. MON.
2134	179499.69	173807.76	1" IRON PIPE								

COURSE TABLE							
From	To	Direction	Distance	From	To	Direction	Distance
112	715	N89°35'53"E	1312.59'	32	751	S86°04'46"E	130.00'
715	763	N00°47'20"E	954.41'	751	805	S03°55'39"W	30.87'
763	764	N87°07'36"W	117.51'	805	804	S03°55'14"W	7.13'
764	218	N02°52'24"E	28.33'	804	400	N86°04'46"W	37.54'
218	219	N48°11'00"E	80.90'	400	401	S50°10'58"W	70.48'
220	221	N00°32'24"E	180.56'	402	403	S19°44'32"E	65.13'
221	222	N43°12'52"W	22.38'	403	803	S32°58'57"W	44.40'
222	223	N85°39'25"W	61.64'	803	498	S00°32'24"W	60.54'
223	259	N84°26'09"W	21.77'	498	499	S86°50'31"E	110.40'
259	124	N26°30'36"E	54.59'	499	3294	S03°34'32"W	66.26'
124	125	N76°34'59"E	77.04'	3294	3295	S87°35'11"E	20.00'
125	806	N00°32'24"E	186.34'	3295	3290	S86°53'50"E	124.92'
806	807	N89°27'36"W	50.50'	3290	3136	S03°35'08"W	99.75'
807	808	N01°03'43"E	112.77'	3136	3137	S03°35'10"W	60.00'
808	809	S88°08'11"E	50.50'	3137	406	N86°55'41"W	181.39'
895	896	N85°17'40"W	25.50'	406	407	S46°25'07"W	86.17'
896	897	N05°05'22"E	51.27'	407	408	S00°32'24"W	128.08'
897	898	S84°31'35"E	25.50'	409	410	S38°49'51"E	26.83'
224	225	N43°35'20"W	24.98'	410	762	S06°14'51"W	31.17'
225	761	N00°24'04"W	29.02'	762	91	N83°45'10"W	64.87'
761	32	N89°35'55"E	93.09'	91	763	N87°07'36"W	4.34'

CURVE 219-220
L= 336.16'
LC= 336.04'
LCB= N03°10'15"E
R= 3660.50'

CURVE 401-402
L= 252.36'
LC= 252.31'
LCB= S03°59'20"W
R= 3684.50'

CURVE 408-409
L= 378.78'
LC= 378.62'
LCB= S03°24'51"W
R= 3775.50'

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET. RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN PORTAGE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 765584.

BASIS OF R/W	
INSTRUMENT	YEAR
PLOVER ASSESSOR'S PLAT NO. 4	1981
PLOVER ASSESSOR'S PLAT NO. 2	1980
PLOVER ASSESSOR'S PLAT NO. 3	1981
PLOVER ASSESSOR'S PLAT NO. 5	1981
CSM NO. 6843	1998
CSM NO. 2950	1983
CSM NO. 6792	1998
CSM NO. 3672	1986
RW PLAT NO. 1526-02-24	1994
RW PLAT NO. 6998-01-21	1981

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF

JASON L. CANCE — PRINTED NAME — SIGNATURE — 3-17-2014 DATE

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

BRENT L. STELLA — PRINTED NAME — SIGNATURE — 3-25-14 DATE

WISCONSIN JASON L. CANCE S-2888 CHIPPEWA FALLS WI LAND SURVEYOR

FILE NAME : P:\UZ\W\Witnc\112545\5-final-dsgn\51-drawings\40-TransHwy\040103 RP.dgn
PLOT DATE : 3/17/2014
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : N/A
APPRAISAL PLAT DATE :

DOT COMPOSITE ORIGINAL LOCATED AT THE REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 6414-00-25 - 4.03 AMENDMENT NO. 3

AMENDS PARCEL 41 OF TRANSPORTATION PROJECT PLAT 6414-00-25-4.03 RECORDED AS DOCUMENT NO. 765973 AND AMENDS UTILITY NO. 200 OF TRANSPORTATION PROJECT PLAT NO. 6414-00-25-4.03 AMENDMENT NO. 2 RECORDED AS DOCUMENT NO. 794552

BUS. 51, VILLAGE OF PLOVER AND WHITING (STH 54 - MINNESOTA AVE.)

PART OF LOTS 9, & 12 THRU 18 OF PLOVER ASSESSOR'S PLAT NO. 5, PART OF LOT 1 OF PLOVER ASSESSOR'S PLAT NO. 3 AND PART OF LOT 1 CSM NO. 7075, LOCATED IN AND INCLUDING PART OF THE SW 1/4 OF THE NW 1/4; PART OF LOTS 36 & 37 OF PLOVER ASSESSOR'S PLAT NO. 5 LOCATED IN AND INCLUDING PART OF THE NW 1/4 OF THE SW 1/4; PART OF LOT 4 OF PLOVER ASSESSOR'S PLAT NO. 3, PART OF LOT 18 OF PLOVER ASSESSOR'S PLAT NO. 5, PART OF LOT 1 & OUTLOT 1 OF CSM NO. 7075, PART OF LOTS 1 & 2 OF CSM NO. 4243, LOCATED IN AND INCLUDING PART OF THE SE 1/4 OF THE NW 1/4; AND PART OF LOT 1 CSM NO. 9197, PART OF LOTS 36 & 37 OF PLOVER ASSESSOR'S PLAT NO. 5, PART OF LOT 4 OF PLOVER ASSESSOR'S PLAT NO. 3, LOCATED IN AND INCLUDING PART OF THE NE 1/4 OF THE SW 1/4; ALL IN SECTION 22, T23N, R8E, VILLAGE OF PLOVER, PORTAGE COUNTY, WISCONSIN

RELOCATION ORDER BUS 51 PORTAGE 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.

UTILITY INTEREST TABLE

UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
200	35	EASEMENT	DOC. # 368146
	38	EASEMENT	DOC. # 366890
	38	EASEMENT	DOC. # 368010
	39	EASEMENT	DOC. # 366892
	39	EASEMENT	DOC. # 367994
	41	EASEMENT	DOC. # 366889
	42	EASEMENT	DOC. # 366893
	42	EASEMENT	DOC. # 368147
	43	EASEMENT	DOC. # 368141
	47	EASEMENT	DOC. # 368016
201	36	NO EASEMENT OF RECORD	
	38	EASEMENT	DOC. # 366890
	39	EASEMENT	DOC. # 366892
	41	EASEMENT	DOC. # 366889
	42	EASEMENT	DOC. # 366893
	42	NO EASEMENT OF RECORD	
210	41	EASEMENT	DOC. # 231271
	42	NO EASEMENT OF RECORD	
	43	NO EASEMENT OF RECORD	
	44	NO EASEMENT OF RECORD	
	45	EASEMENT	DOC. # 230552
	46	EASEMENT	DOC. # 117274
	46	EASEMENT	DOC. # 230551
	47	EASEMENT	DOC. # 117274
	47	EASEMENT	DOC. # 229401
	47	EASEMENT	DOC. # 230553
	48	EASEMENT	DOC. # 230555
220	41	EASEMENT	DOC. # 674069
	41	EASEMENT	DOC. # 743853
221	41	EASEMENT	DOC. # 674069
	41	EASEMENT	DOC. # 743853

BASIS OF R/W	
INSTRUMENT	YEAR
PLOVER ASSESSOR'S PLAT NO. 3	1981
PLOVER ASSESSOR'S PLAT NO. 5	1981
CSM NO. 4760	1991
CSM NO. 9197	2006
CSM NO. 4243	1989
CSM NO. 7075	1999
RW PLAT NO. F05-3 (34)	1958
RW PLAT NO. 6998-01-21	1981

CURVE 802-132
L= 256.47'
LC= 256.01'
LCB= N12°25'20"W
R= 1230.50'

CURVE 133-134
L= 285.13'
LC= 285.11'
LCB= N17°22'52"W
R= 8069.50'

CURVE 193-194
L= 321.58'
LC= 320.81'
LCB= S11°32'47"E
R= 1345.50'

CURVE 198-199
L= 145.55'
LC= 145.48'
LCB= S03°51'38"W
R= 1345.50'

CURVE 205-156
L= 79.23'
LC= 79.22'
LCB= N05°06'53"E
R= 1230.50'

CURVE 176-206
L= 64.38'
LC= 64.37'
LCB= N00°07'44"W
R= 1230.50'

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	EXISTING	TOTAL	TLE S.F.
35	DANIEL L. & MARY A. KOWALSKI	FEE/AR/TLE	6890	-	6890	2925
36	ANGELA G. ZDROIK	FEE/AR/TLE	3650	-	3650	1310
37	JERAMY E. LUKASAVAGE & EDWARD M. LUKASAVAGE	FEE/AR/TLE	3680	-	3680	1235
38	BEVERLY L. WATKE	FEE/AR/TLE	1490	-	1490	850
39	JACK & SARA STOSKOPF	FEE/AR/TLE	4570	-	4570	1310
41	POINT PLUS CREDIT UNION	FEE/AR/TLE	9100	-	9100	1915
42	CNL APF PARTNERS LP	FEE/AR/TLE	7270	-	7270	1735
43	O'BRIEN PLOVER PROPERTIES LLC	FEE/AR/TLE	4760	-	4760	1015
44	DELLA L DIESBURG	FEE/AR/TLE	5565	-	5565	1120
45	PORTAGE COUNTY BANK	FEE/AR/TLE	1925	-	1925	3440
46	HELEN G. ADAMS	FEE/AR	9230	-	9230	-
47	PLOVER 2440 POST ROAD WI LLC	FEE/AR/TLE	4030	-	4030	11820
48	VILLAGE OF PLOVER	FEE/AR/TLE	6355	-	6355	20520

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	VILLAGE OF PLOVER - WATER	RELEASE OF RIGHTS
201	VILLAGE OF PLOVER - SANITARY SEWER	RELEASE OF RIGHTS
210	WISCONSIN TELEPHONE COMPANY N/K/A AT&T	RELEASE OF RIGHTS
220	WISCONSIN PUBLIC SERVICE - GAS	RELEASE OF RIGHTS
221	WISCONSIN PUBLIC SERVICE - ELECTRIC	RELEASE OF RIGHTS

805890

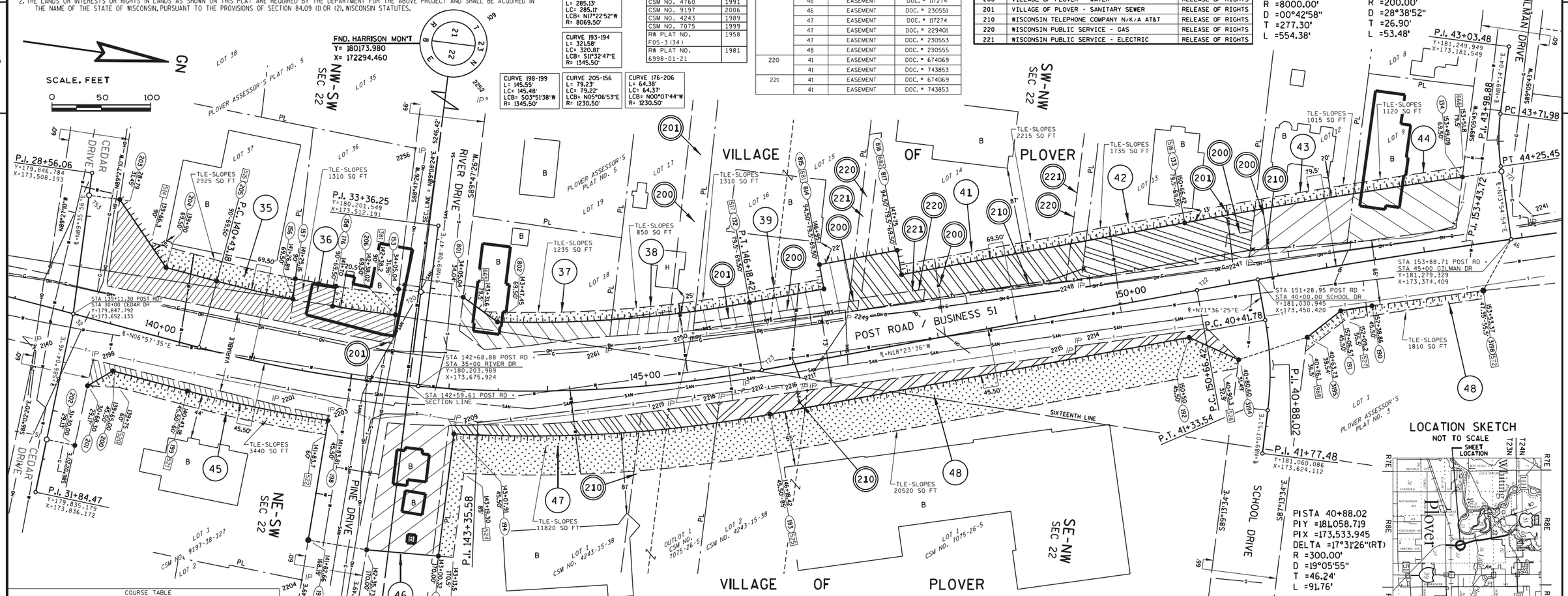
ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Portage COUNTY, WISCONSIN AT 3:05PM ON April 29, 2015 AS DOCUMENT # 805890 AND FILED IN Cont. # 50.

Cynthia Niebuhr
SIGNATURE OF REGISTER OF DEEDS
$21.00

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6414-00-25-4.03
AMENDMENT NO. 3

PISTA 153+43.72
PIY =181,234.673
PIX =173,382.418
DELTA =03°58'14"(RT)
R =8000.00'
D =00°42'58"
T =277.30'
L =554.38'

PISTA 43+98.88
PIY =181,251.223
PIX =173,276.938
DELTA =15°19'10"(LT)
R =200.00'
D =28°38'52"
T =26.90'
L =53.48'


SCALE, FEET
0 50 100
GN
FND. HARRISON MON'T
Y= 180173.980
X= 172294.460
P.I. 28+56.06
Y=179,846.784
X=173,508.193
P.I. 33+36.25
Y=180,201.549
X=173,512.191
P.I. 31+84.47
Y=179,835.179
X=173,836.172
P.I. 143+35.58
P.I. 43+03.48
Y=181,249.949
X=173,181.549
P.I. 43+98.88
P.C. 43+71.98
PT 44+25.45
P.C. 140+43.18
P.C. 40+41.78
P.I. 40+88.02
Y=181,060.086
X=173,624.112
P.I. 41+77.48
P.I. 41+33.54
P.I. 153+43.72
CEDAR DRIVE
RIVER DRIVE
PINE DRIVE
GILMAN DRIVE
SCHOOL DRIVE
SIXTEENTH LINE
POST ROAD / BUSINESS 51
VILLAGE OF PLOVER
NE-SW SEC 22
NW-SW SEC 22
SE-NW SEC 22
SW-NW SEC 22
PLOVER ASSESSOR'S PLAT NO. 5
PLOVER ASSESSOR'S PLAT NO. 3
CSM NO. 9197-38-127
CSM NO. 4243-15-38
CSM NO. 7075-26-5
OUTLOT 1 CSM NO. 7075-26-5
TLE-SLOPES 2925 SQ FT
TLE-SLOPES 1310 SQ FT
TLE-SLOPES 850 SQ FT
TLE-SLOPES 1235 SQ FT
TLE-SLOPES 3440 SQ FT
TLE-SLOPES 11820 SQ FT
TLE-SLOPES 20520 SQ FT
TLE-SLOPES 2215 SQ FT
TLE-SLOPES 1735 SQ FT
TLE-SLOPES 1015 SQ FT
TLE-SLOPES 1120 SQ FT
TLE-SLOPES 1810 SQ FT
STA 139+11.30 POST RD * STA 30+00 CEDAR DR Y=179,847.792 X=173,652.133
STA 142+68.88 POST RD * STA 35+00 RIVER DR Y=180,203.989 X=173,675.924
STA 142+59.61 POST RD * SECTION LINE
STA 153+88.71 POST RD * STA 45+00 GILMAN DR Y=181,279.329 X=173,374.409
STA 151+28.95 POST RD * STA 40+00.00 SCHOOL DR Y=181,030.945 X=173,450.420
140+00
145+00
150+00
VARIABLE WIDTH
SEC. LINE = N89°08'24"E 5246.42'
S88°47'26"W 2256'
S89°47'36"W 2252'
S89°47'36"W 2640.96'
S89°47'36"W 2640.96'
S89°47'36"W 2640.96

TRANSPORTATION PROJECT PLAT NO: 6414-00-25 - 4.04 AMENDMENT NO. 3

AMENDS PARCELS 63 AND 64 OF TRANSPORTATION PROJECT PLAT 6414-00-25-4.04 RECORDED AS DOCUMENT NO. 765974

BUS 51, VILLAGE OF PLOVER & WHITING (STH 54 - MINNESOTA AVE.)

PART OF LOT 60 OF PLOVER ASSESSOR'S PLAT NO. 6, PART OF LOT 1, CSM NO. 300, PART OF LOT 1, CSM NO. 8711, PART OF LOT 1, CSM NO. 2615, PART OF LOT 1, CSM NO. 549, PART OF LOTS 1 & 2 OF CSM NO. 94, LOCATED IN AND INCLUDING PART OF THE NW 1/4 OF THE NW 1/4, PART OF LOTS 60 THRU 62 OF PLOVER ASSESSOR'S PLAT NO. 6, PART OF LOT 1 OF PLOVER ASSESSOR'S PLAT NO. 3 LOCATED IN AND INCLUDING PART OF THE SW 1/4 OF THE NW 1/4, ALL IN SECTION 22, T23N, R8E, VILLAGE OF PLOVER, PORTAGE COUNTY, WISCONSIN

RELOCATION ORDER BUS 51 PORTAGE 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

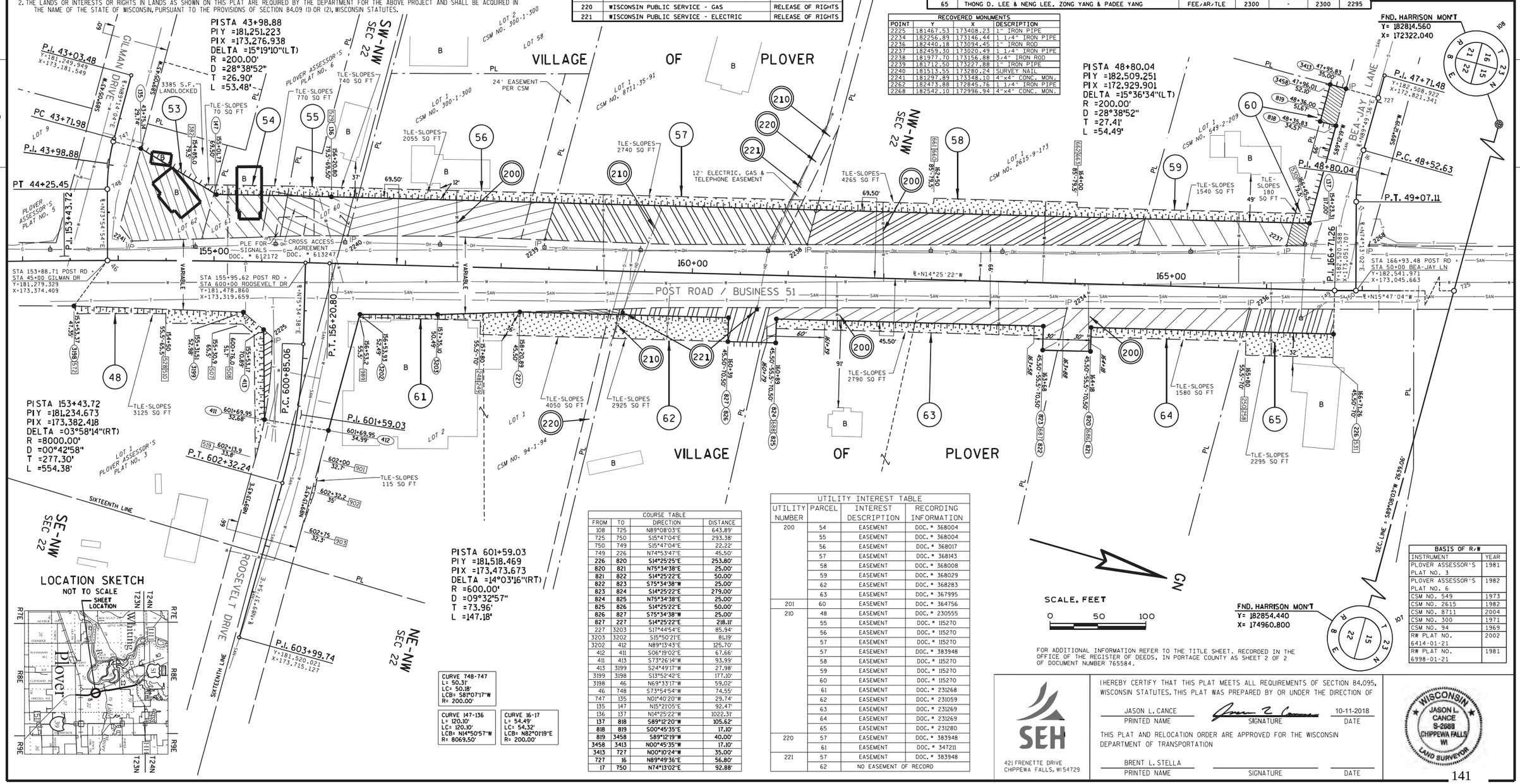
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	R/W S.F. REQUIRED EXISTING	R/W S.F. REQUIRED TOTAL	TLE S.F.
48	VILLAGE OF PLOVER	FEE/AR/TLE	530	-	530	3125
53	JOHN A. ORLOWSKI	FEE/AR/TLE	6320	-	6320	70
54	THOMAS J. & LISA R. JAKUSZ	FEE/AR/TLE	3535	-	3535	770
55	DARYL A. & GWEN J. MOREY	FEE/AR/TLE	2970	-	2970	740
56	DORR E. & IRENE H. O'BRIEN	FEE/AR/TLE	7975	-	7975	2055
57	DAVID PANG SII & NANCY SII	FEE/AR/TLE	10640	-	10640	2740
58	EUGENE J. KATZ & BENNETT C. KATZ, D/B/A KATZ AND KATZ	FEE/AR/TLE	11065	-	11065	4265
59	TERRANCE A. ZDZIEBLOWSKI ETAL.	FEE/AR/TLE	4010	-	4010	1540
60	DONALD LEE COTE & JANICE M. SINGER & EUGENE WILLIS COTE	FEE/AR/TLE	1105	-	1105	180
61	SKY CLUB INC.	FEE/AR/TLE	315	-	315	4050
62	FREUND RENTALS LLC.	FEE/AR/TLE	2405	-	2405	2925
63	MARKOVICH PROPERTIES INC.	FEE/AR/TLE	5535	-	5535	2790
64	MARKOVICH INVESTMENT CO.	FEE/AR/TLE	4890	-	4890	1580
65	THONG D. LEE & NENG LEE, ZONG YANG & PADEE YANG	FEE/AR/TLE	2300	-	2300	2295

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	VILLAGE OF PLOVER - WATER	RELEASE OF RIGHTS
201	VILLAGE OF PLOVER - SANITARY SEWER	RELEASE OF RIGHTS
210	WISCONSIN TELEPHONE COMPANY N/K/A AT&T	RELEASE OF RIGHTS
220	WISCONSIN PUBLIC SERVICE - GAS	RELEASE OF RIGHTS
221	WISCONSIN PUBLIC SERVICE - ELECTRIC	RELEASE OF RIGHTS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6414-00-25-4.04
AMENDMENT NO. 3



RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
2225	181467.53	173408.23	1" IRON PIPE
2234	182256.89	173146.44	1 1/4" IRON PIPE
2236	182440.18	173094.45	1" IRON ROD
2237	182459.30	173020.49	1 1/4" IRON PIPE
2238	181977.70	173156.88	3/4" IRON ROD
2239	181712.50	173227.88	1" IRON PIPE
2240	181513.55	173280.24	SURVEY NAIL
2241	181297.89	173348.10	4"x4" CONC. MON.
2262	182473.88	172845.76	1 1/4" IRON PIPE
2268	182542.10	172996.94	4"x4" CONC. MON.

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
108	725	N89°08'03"E	643.89'
725	750	S15°47'04"E	293.38'
750	749	S15°47'04"E	22.22'
749	226	N74°53'47"E	45.50'
226	**820**	**S14°25'25"E**	**253.80'**
820	**821**	**N75°34'38"E**	**25.00'**
821	**822**	**S14°25'22"E**	**50.00'**
822	**823**	**S75°34'38"W**	**25.00'**
823	**824**	**S14°25'22"E**	**279.00'**
824	**825**	**N75°34'38"E**	**25.00'**
825	**826**	**S14°25'22"E**	**50.00'**
826	**827**	**S75°34'38"W**	**25.00'**
827	**227**	**S14°25'22"E**	**218.11'**
227	3203	S17°44'54"E	85.94'
3203	3202	S15°50'21"E	81.19'
3202	412	N89°13'43"E	125.70'
412	411	S06°19'02"E	67.66'
411	413	S73°26'14"W	93.99'
413	3199	S24°49'17"W	27.98'
3199	3198	S13°52'42"E	177.10'
3198	46	N69°33'17"W	59.02'
46	748	S73°54'54"W	74.55'
747	135	N01°40'20"W	29.74'
135	147	N15°21'05"E	92.47'
136	137	N14°25'22"W	1022.31'
137	**818**	**S89°12'20"W**	**105.62'**
818	**819**	**S00°45'35"E**	**17.10'**
819	**3458**	**S89°12'19"W**	**40.00'**
3458	**3413**	**N00°45'35"W**	**17.10'**
3413	**727**	**N00°10'24"W**	**35.00'**
727	**16**	**N89°49'36"E**	**56.80'**
17	**750**	**N74°13'02"E**	**92.88'**

UTILITY INTEREST TABLE			
UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
200	54	EASEMENT	DOC.# 368004
	55	EASEMENT	DOC.# 368004
	56	EASEMENT	DOC.# 368017
	57	EASEMENT	DOC.# 368143
	58	EASEMENT	DOC.# 368008
	59	EASEMENT	DOC.# 368029
	62	EASEMENT	DOC.# 368283
	63	EASEMENT	DOC.# 367995
201	60	EASEMENT	DOC.# 364756
210	48	EASEMENT	DOC.# 230555
	55	EASEMENT	DOC.# 115270
	56	EASEMENT	DOC.# 115270
	57	EASEMENT	DOC.# 115270
	57	EASEMENT	DOC.# 383948
	58	EASEMENT	DOC.# 115270
	59	EASEMENT	DOC.# 115270
	60	EASEMENT	DOC.# 115270
	61	EASEMENT	DOC.# 231268
	62	EASEMENT	DOC.# 231059
	63	EASEMENT	DOC.# 231269
	64	EASEMENT	DOC.# 231269
	65	EASEMENT	DOC.# 231280
220	57	EASEMENT	DOC.# 383948
	61	EASEMENT	DOC.# 347211
221	57	EASEMENT	DOC.# 383948
	62	NO EASEMENT OF RECORD	

BASIS OF R/W	
INSTRUMENT	YEAR
PLOVER ASSESSOR'S PLAT NO. 3	1981
PLOVER ASSESSOR'S PLAT NO. 6	1982
CSM NO. 549	1973
CSM NO. 2615	1982
CSM NO. 8711	2004
CSM NO. 300	1971
CSM NO. 94	1969
RW PLAT NO. 6414-01-21	2002
RW PLAT NO. 6998-01-21	1981

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET. RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN PORTAGE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 765584.

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF

JASON L. CANCE — PRINTED NAME — SIGNATURE — 10-11-2018 DATE

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

BRENT L. STELLA — PRINTED NAME — SIGNATURE — DATE

WISCONSIN JASON L. CANCE S-2699 CHIPPEWA FALLS WI LAND SURVEYOR

FILE NAME : P:\UZ\WW\itnc\112545\5-final-dsgn\51-drawings\40-TransHwy\040105 RP.dgn
PLOT DATE : 10/11/2018 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 6414-00-25 - 4.05 AMENDMENT NO. 4

ADDS PARCEL 271 AND AMENDS PARCEL 69 OF TRANSPORATION PROJECT PLAT NO. 6414-00-25-4.05 AMENDMENT NO. 1 RECORDED AS DOCUMENT NO. 786952

BUS. 51, VILLAGE OF PLOVER AND WHITING (STH 54 - MINNESOTA AVE.)

THAT PART OF LOTS 46 THRU 49 OF PLOVER ASSESOR'S PLAT NO. 6, PART OF LOTS 1 & 4 OF CSM NO. 2871, PART OF LOT 1 CSM NO. 6446, PART OF LOTS 1 & 2 OF CSM NO. 4179, PART OF LOT 1 CSM NO. 4831, PART OF LOTS 1 & 2 OF CSM NO. 3039, LOCATED IN AND INCLUDING PART OF THE SW 1/4 OF THE SW 1/4, OF SECTION 15; PART OF LOT 4 OF CSM NO. 2871, PART OF LOT 1 OF CSM NO. 1706, LOCATED IN AND INCLUDING PART OF THE NW 1/4 OF THE NW 1/4 OF SECTION 22; ALL IN T23N, R8E, VILLAGE OF PLOVER, PORTAGE COUNTY, WISCONSIN

RELOCATION ORDER BUS 51 PORTAGE 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.

SURVEYOR'S NOTE:
THERE APPEARS TO HAVE BEEN AN ERROR IN THE LOCATION OF THE NORTH LINE OF LOT 51 OF PLOVER ASSESSOR'S PLAT NO. 6. THE LOCATION OF THE NORTH LINE OF SAID LOT 51 WAS INTENDED TO BE USED FOR CERTFIED SURVEY MAP NO. 2871 AND THEREFORE THE LOCATION OF THE RIGHT OF WAY OF PLOVER SPRINGS DRIVE PER DOCUMENT NO. 366291. THE ERRORS AND INTENTIONS WERE CONFIRMED BY LANCE HABECK S-1444 AS HE WAS RESPONSIBLE FOR THE DRAFTING OF THE SAID ASSESSOR'S PLAT AND SEALED SAID CERTIFIED SURVEY MAP NO. 2871. THIS TRANSPORTATION PROJECT PLAT SHOWS THE INTENDED LOCATION OF PLOVER SPRINGS DRIVE AS CONFIRMED BY LANCE HABECK.

RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
285	183632.31	172767.48	CHISELED X
293	183299.93	172954.04	1" IRON PIPE
294	183210.90	172892.75	CHISELED X
295	183045.13	172933.90	CHISELED X
296	183042.19	172934.60	CHISELED X
297	182823.86	172993.08	1" IRON PIPE
712	183750.92	172654.17	4"X4" CONC. MON.
713	183750.88	172646.87	4"X4" CONC. MON.
2237	182459.30	173020.49	1 1/4" IRON PIPE
2268	182542.10	172996.94	4"X4" CONC. MON.
2275	183601.17	172696.46	1" IRON PIPE
2276	183702.85	172667.67	1" IRON PIPE
2278	182908.07	172894.93	2" IRON PIPE
2593	182940.88	172959.73	CHISELED X
2594	183737.00	172733.90	CHISELED X
2595	183406.42	172837.10	UNKNOWN
2596	183376.73	172874.79	UNKNOWN

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6414-00-25-4.05
AMENDMENT NO. 4

BASIS OF R/W	
INSTRUMENT	YEAR
PLOVER ASSESSOR'S PLAT NO. 6	1982
CSM NO. 2871	1983
CSM NO. 6488	1997
CSM NO. 1706	1978
CSM NO. 3039	1984
CSM NO. 1870	1979
CSM NO. 4831	1991
CSM NO. 4179	1988
CSM NO. 6446	1997
CSM NO. 2419	1981
CSM NO. 1906	1979
RW PLAT NO. F05-3-341	1957

CURVE 421-767
L= 202.25'
LC= 202.04'
LCB= N12°19'00"W
R= 1269.50'

CURVE 450-424
L= 144.78'
LC= 144.68'
LCB= S15°17'18"E
R= 1154.50'

FOUND HARRISON MON.
Y= 182814.560
X= 172322.040

P.I. 47+71.48
Y=182,508.922
X=172,821.341

PISTA 48+80.05
PIY =182,509.251
PIX =172,929.901
DELTA =15°36'34"(LT)
R =200.00'
D =28°38'52"
T =27.41'
L =54.49'

P.C. 48+52.64

P.I. 48+80.04

P.T. 49+07.11

P.I. 169+71.92
Y=182,541.971
X=173,045.663

P.I. 695+30.13
Y=183,298.152
X=172,355.475

P.C. 697+38.04

P.I. 697+95.63

P.T. 698+53.16

P.I. 173+33.45
Y=183,157.811
X=172,871.579

P.C. 700+86.78

P.I. 701+40.27

P.T. 701+93.65

P.I. 704+64.28
Y=183,353.207
X=173,282.269

PISTA 697+95.63
PIY =183,296.969
PIX =172,620.969
DELTA =4°23'50"(LT)
R =1500.00'
D =3°49'11"
T =57.59'
L =115.09'

PISTA 180+52.86
PIY =183,846.217
PIX =172,9662.678
DELTA =13°41'20"(RT)
R =1,200.00'
D =4°46'29"
T =144.04'
L =286.70'

PISTA 701+40.27
PIY =183,348.254
PIX =172,958.195
DELTA =6°07'22"(LT)
R =1000.00'
D =5°43'47"
T =53.48'
L =106.86'

SCALE. FEET
0 50 100

FND. HARRISON MON.
Y= 182854.440
X= 174960.800

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	VILLAGE OF PLOVER - WATER	RELEASE OF RIGHTS
210	WISCONSIN TELEPHONE COMPANY N/K/A AT&T	RELEASE OF RIGHTS
220	WISCONSIN PUBLIC SERVICE - GAS	RELEASE OF RIGHTS
221	WISCONSIN PUBLIC SERVICE - ELECTRIC	RELEASE OF RIGHTS

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	EXISTING	TOTAL	TLE S.F.
65	THONG D. LEE & NENG LEE, ZONG YANG & PADEE YANG	FEE/AR/TLE	2180	-	2180	2060
68	ST. MICHAEL'S HOSPITAL OF STEVENS POINT INC.	FEE/AR/TLE	8950	-	8950	10195
69	ELVIS ROBERTS PROPERTIES LLC	FEE/AR/TLE	8795	-	8795	12060
71	CE & CW LP	FEE/AR/TLE	11835	-	11835	5625
72	NORBERT F. & JOSEPHINE F. SIWCAKOSKI	FEE/AR/TLE	3910	-	3910	830
73	ERIC W. WROBLEWSKI	FEE/AR/TLE	1735	-	1735	575
74	KIMBERLY S. WAHL & MARIYN M. WOLFE	FEE/AR/TLE	2795	-	2795	1355
75	SUPER BOWL ENTERPRISES INC.	FEE/AR/TLE	4040	-	4040	3525
76	ANTHONY J. OPIOLA REVOCABLE TRUST DATED JUNE 7, 2011	FEE/AR/TLE	1870	-	1870	715
77	ZRH LLP	FEE/AR/TLE	10095	-	10095	15705
79	STEPHEN C. & MELISSA M. DEBOT	FEE/AR	3560	-	3560	-
80	PLOVER PROFESSIONAL CENTER LLC.	FEE/AR/TLE	2195	-	2195	8300
81	RIVERVIEW CENTER OF PLOVER LLC.	FEE/AR/TLE	1455	-	1455	2580
271	CE & CW LP	FEE	412	-	412	-

UTILITY INTEREST TABLE			
UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
200	72	EASEMENT	DOC. # 368026
	73	EASEMENT	DOC. # 368282
	74	EASEMENT	DOC. # 368145
	75	EASEMENT	DOC. # 368276
	77	EASEMENT	DOC. # 368013
	81	EASEMENT	DOC. # 368144
210	65	EASEMENT	DOC. # 231280
	68	EASEMENT	DOC. # 115270
	68	EASEMENT	DOC. # 231265
	69	EASEMENT	DOC. # 231265
	75	EASEMENT	DOC. # 231280
	76	EASEMENT	DOC. # 231280
	77	NO EASEMENT OF RECORD	
	81	EASEMENT	DOC. # 231276
220	71	EASEMENT	DOC. # 566686
	77	EASEMENT	DOC. # 746110
221	68	NO EASEMENT OF RECORD	
	69	NO EASEMENT OF RECORD	
	71	EASEMENT	DOC. # 566686
	77	EASEMENT	DOC. # 746110

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET. RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN PORTAGE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 765584.

LOCATION SKETCH
NOT TO SCALE

COURSE TABLE							
FROM	TO	DIRECTION	DISTANCE	FROM	TO	DIRECTION	DISTANCE
108	414	N89°08'03"E	571.97'	1060	1061	N00°28'39"W	84.06'
414	415	N15°47'02"W	327.41'	1061	883	S46°07'08"E	119.19'
415	416	N16°52'56"W	133.21'	883	426	N89°01'46"E	160.70'
416	417	S89°08'46"W	202.99'	426	427	S00°52'32"E	60.00'
417	729	N00°15'21"E	66.01'	427	428	S82°51'19"W	139.63'
729	418	N00°15'21"E	3.93'	428	429	S77°38'03"W	93.01'
418	419	N79°03'03"E	149.13'	429	430	S34°32'39"W	58.86'
419	420	N34°30'26"E	33.48'	430	431	S16°52'51"E	56.15'
420	828	N16°52'51"W	184.31'	431	432	S10°32'07"E	151.34'
828	829	S73°07'09"W	20.00'	432	435	S15°47'04"E	216.64'
829	830	N16°52'51"W	55.00'	435	226	S15°47'04"E	304.02'
830	831	N73°07'09"E	20.00'	226	749	S74°53'47"W	45.50'
831	421	N16°52'51"W	73.82'	749	750	N15°47'04"W	22.22'
767	3992	S76°26'49"E	107.00'	750	17	S74°13'02"W	92.88'
3992	450	N83°12'37"E	15.98'	17	433	N24°42'03"W	27.16'
424	425	S16°52'51"E	336.49'	433	434	N16°30'32"E	51.65'
425	2596	S51°45'50"E	36.97'	434	414	N15°47'04"W	241.41'
2596	1060	N89°01'46"E	51.22'				

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF

JASON L. CANCE — PRINTED NAME — SIGNATURE — 2-12-2018 DATE

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

BRENT L. STELLA — PRINTED NAME — SIGNATURE — 2-12-18 DATE

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

FILE NAME : P:\UZ\W\Witnc\112545\5-final-dsgn\51-drawings\40-TransHwy\040106 RP.dgn
PLOT DATE : 2/12/2018 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 6414-00-25 - 4.06 AMENDMENT NO. 4

AMENDS PARCEL 83 AND REMOVES PARCEL 84 TO TRANSPORTATION PROJECT 6414-00-25-4.06 AMENDMENT NO. 3 RECORDED AS DOCUMENT NO. 843624

BUS 51, VILLAGE OF PLOVER AND WHITING (STH 54 - MINNESOTA AVE.)

PART OF LOTS 40 THRU 42 OF PLOVER ASSESSOR'S PLAT NO. 6, PART OF LOT 2 CSM NO. 9547, PART OF LOT 1 CSM NO. 5090, PART OF LOT 1 CSM NO. 4652, PART OF LOT 2 CSM NO. 4927, PART OF OUTLOT 1 SPRINGVILLE POND SUBDIVISION, PART OF LOTS 1 & 2 OF CSM NO. 6285, PART OF LOT 18 OF HALLIDAY'S SURVEY OF 1888, LOCATED IN AND INCLUDING PART OF THE NW 1/4 OF THE SW 1/4; PART OF LOT 46 OF PLOVER ASSESSOR'S PLAT NO. 6, PART OF LOT 2 CSM NO. 9547, PART OF OUTLOT 1 SPRINGVILLE POND SUBDIVISION, PART OF LOT 1 CSM NO. 2419, LOCATED IN AND INCLUDING PART OF THE SW 1/4 OF THE SW 1/4; ALL IN SECTION 15, T23N, R8E, VILLAGE OF PLOVER, PORTAGE COUNTY, WISCONSIN

RELOCATION ORDER BUS 51 PORTAGE 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.

CURVE 442-832	CURVE 835-772	CURVE 767-422	CURVE 3926-3924	CURVE 451-443
L= 38.60'	L= 250.25'	L= 46.10'	L= 258.77'	L= 355.06'
LC= 38.60'	LC= 250.20'	LC= 46.10'	LC= 258.52'	LC= 354.93'
LCB= N03°29'38"W	LCB= N06°31'21"W	LCB= N06°42'44"W	LCB= N05°52'59"W	LCB= S05°53'10"E
R= 3660.50'	R= 3660.50'	R= 1269.50'	R= 1691.55'	R= 3775.50'

CURVE 448-450
L= 54.34'
LC= 54.33'
LCB= S08°20'51"E
R= 1154.50'

SCALE, FEET
0 50 100

UTILITY INTEREST TABLE

UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION	UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
200	74	EASEMENT	DOC. # 368145	210	86	EASEMENT	DOC. # 231019
	85	EASEMENT	DOC. # 325813		89	EASEMENT	DOC. # 231276
	85	EASEMENT	DOC. # 368132		89	NO EASEMENT OF RECORD	
	86	EASEMENT	DOC. # 368134		91	EASEMENT	DOC. # 115272
	86	EASEMENT	DOC. # 368133		92	EASEMENT	DOC. # 115272
	87	EASEMENT	DOC. # 368023		93	EASEMENT	DOC. # 115272
	88	EASEMENT	DOC. # 368281		93	EASEMENT	DOC. # 231277
	89	EASEMENT	DOC. # 368144		94	EASEMENT	DOC. # 115272
	90	EASEMENT	DOC. # 368005		94	EASEMENT	DOC. # 231278
	92	EASEMENT	DOC. # 368449	951		EASEMENT	DOC. # 231270
	93	EASEMENT	DOC. # 368018		951	EASEMENT	DOC. # 231272
	94	EASEMENT	DOC. # 368018		952	EASEMENT	DOC. # 115278
	952	EASEMENT	DOC. # 368030		952	EASEMENT	DOC. # 231272
	951	EASEMENT	DOC. # 368138	220	85	EASEMENT	V. 229, P. 617
201	85	EASEMENT	DOC. # 325813		89	NO EASEMENT OF RECORD	
	85	EASEMENT	DOC. # 708528	221	89	EASEMENT	DOC. # 145000
					91	NO EASEMENT OF RECORD	
					92	NO EASEMENT OF RECORD	
					93	NO EASEMENT OF RECORD	
					94	NO EASEMENT OF RECORD	

Doc # 845582
Portage County, Wis.
Received for record this 4th day of December A.D. 2018 at 1:54 P.M. and recorded in Vol. — of Records on Page —
Tracy Vruwink, County Clerk
By: [illegible], Deputy
Fee Exempt #
Fee $55.00

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6414-00-25-4.06
AMENDMENT NO. 4

FND. 60D NAIL
Y= 185467.653
X= 172332.757

FND. HARRISON MON.
Y= 182814.560
X= 172322.040

PISTA 53+55.34
PIY =183,976.079
PIX =172,511.109
DELTA =13°47'52"(RT)
R =160.00'
D =35°48'35"
T =19.36'
L =38.53'

PISTA 53+92.54
PIY =183,973.056
PIX =172,548.378
DELTA =13°42'38"(LT)
R =150.00'
D =38°11'53"
T =18.03'
L =35.89'

PISTA 180+52.86
PIY =183,846.217
PIX =172,662.678
DELTA =13°41'20"(RT)
R =1200.00'
D =4°46'29"
T =144.04'
L =286.70'

PISTA 55+94.97
PIY =184,005.252
PIX =172,748.403
DELTA =28°34'41"(LT)
R =125.00'
D =45°50'10"
T =31.84'
L =62.35'

PISTA 56+62.69
PIY =184,047.573
PIX =172,802.958
DELTA =26°11'00"(RT)
R =160.00'
D =35°48'36"
T =37.21'
L =73.12'

PISTA 60+75.68
PIY =184,865.360
PIX =172,681.614
DELTA =4°06'17"(LT)
R =700.00'
D =8°11'06"
T =25.09'
L =50.15'

PISTA 195+01.90
PIY =185,294.381
PIX =172,581.919
DELTA =7°33'13"(LT)
R =3,730.00'
D =1°32'10"
T =246.23'
L =491.75'

SUBJECT TO FLOWAGE RIGHTS PER DOC. # 49173

VILLAGE OF PLOVER

POST ROAD / BUSINESS 51

SPRINGVILLE DRIVE

SPRINGVILLE POND

RAINBOW DRIVE

SEC. LINE = N00°13'53"E 2653.12'

SEC 15 SW-SW

SEC 15 NW-SW

P.C. 53+35.98
P.R.C. 53+74.51
P.I. 53+92.54
P.T. 54+10.40
P.C. 55+63.14
P.R.C. 56+25.48
P.I. 55+94.97
P.I. 56+62.69
P.T. 56+98.60
P.I. 57+28.20
P.I. 52+98.16
P.I. 53+55.34
P.I. 181+35.52
P.C. 182+66.86
P.I. 60+75.68
P.T. 61+00.75
P.I. 61+88.71
P.C. 192+55.67
P.I. 195+01.90

TLE-REMOVALS 520 SQ FT
TLE-SLOPES 465 SQ FT
TLE-SLOPES 510 SQ FT
TLE-SLOPES 3830 SQ FT
TLE-SLOPES 2450 SQ FT
TLE-SLOPES 2895 SQ FT
TLE-SLOPES 2770 SQ FT
TLE-SLOPES 1230 SQ FT
TLE-SLOPES 4930 SQ FT
TLE-SLOPES 3885 SQ FT
TLE-SLOPES 1465 SQ FT
TLE-SLOPES 3140 SQ FT
TLE-SLOPES 3930 SQ FT
TLE-SLOPES 1355 SQ FT
TLE-SLOPES 315 SQ FT

18850 S.F. LANDLOCKED

INGRESS / EGRESS EASEMENT PER DOC. # 225478

INGRESS / EGRESS EASEMENT DOC. #243832

LOCATION OF JOINT DRIVEWAY PER CSM

PLOVER ASSESSOR'S PLAT NO. 6

LOT 43 MEANDER LINE

APPROX. THREAD OF RIVER

OUTLOT 1 SPRINGVILLE POND SUBDIVISION

LOT 18 HALLIDAY'S SURVEY OF 1888

CSM NO. 2419-8-27

CSM NO. 9547-43-27

CSM NO. 5090-18-115

CSM NO. 4652-16-147

CSM NO. 4927-17-182

CSM NO. 6285-23-108

LOT 1 CSM NO. 5362-22-38

LOT 2 CSM NO. 9547-43-27

FEE STATION OUT TABLE

POINT	STATION	OUT
229	57+15.03	24.00'
284	57+15.77	19.46'
447	55+83.13	28.41'
448	181+15.78	45.50'
450	180+59.30	45.50'
422	181+43.58	69.50'
423	54+07.95	27.48'
436	53+40.95	21.86'
437	53+40.78	17.09'
767	181+00	69.50'

TLE STATION OUT TABLE

POINT	STATION	OUT
439	53+41.1	27.0'
537	181+52.4	79.5'
547	181+25.2	65.5'
551	181+00	79.5'
667	180+58.2	65.5'
692	55+92.3	32.3'
768	57+14.1	29.4'

COURSE TABLE

FROM	TO	DIRECTION	DISTANCE
108	771	N00°13'53"E	1114.36'
771	437	N80°49'47"E	174.65'
437	438	N07°58'29"W	33.01'
438	3926	N80°49'47"E	75.10'
3924	3923	N01°30'05"W	57.36'
3923	3922	N88°29'59"E	22.00'
3922	706	N01°30'03"W	216.65'
706	3910	S88°30'56"W	2.00'
3910	442	N03°11'56"W	512.47'
832	833	S86°12'48"W	20.00'
833	834	N04°10'48"W	48.80'
834	835	N85°26'09"E	20.00'
772	773	N81°31'08"E	69.50'
773	451	N73°20'57"E	45.96'
443	444	S03°11'31"E	155.49'
444	445	S27°30'10"E	65.00'
445	446	S29°16'31"W	49.85'
446	698	S03°11'31"E	298.89'
698	697	S44°51'39"E	66.93'
697	228	S03°11'31"E	383.14'
228	449	N78°33'30"E	111.75'
449	284	S11°37'08"E	50.00'
284	229	S02°21'20"E	4.59'
229	447	S63°40'07"W	128.31'
447	448	S31°52'53"W	72.77'
450	3992	S83°12'37"W	15.98'
3992	767	N76°26'49"W	107.00'
422	423	N52°13'11"W	27.66'
423	436	N86°52'20"W	68.03'
436	437	N09°12'57"W	4.77'

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	EXISTING	TOTAL	TLE S.F.
74	KIMBERLY S. WAHL & MARILYN M. WOLFE	FEE/AR/TLE	2200	-	2200	975
83	BETTY JANE IBER	TLE	-	-	-	520
85	RANDAL T. AND LISA A. WOYAK	FEE/TLE	790	-	790	2895
86	BANK ONE TRUST COMPANY N/K/A JP MORGAN CHASE BANK, AS TRUSTEE OF THE FAMILY TRUST CREATED UNDER THE LAST WILL AND TESTAMENT OF WILLIAM ADAMS DATED NOVEMBER 10, 1977	FEE/TLE	2240	-	2240	2770
87	DAVID R. & MARY A. BOYLES	FEE/TLE	2370	-	2370	1230
88	LOTZER JOINT REVOCABLE TRUST U/A DTD 11-17-92	FEE/TLE	7740	-	7740	4930
89	PINE ROCK PROPERTIES, LLC	FEE/AR/TLE	8955	-	8955	2450
90	VILLAGE OF PLOVER	FEE/TLE	33490	-	33490	3830
91	TAD C. MEIER & LISA A. MEIER, OR THEIR SUCESSOR AS TRUSTEES OF THE TAD C. MEIER AND LISA A. MEIER JOINT REVOCABLE TRUST DATED APRIL 13, 2007	FEE/TLE	9630	-	9630	3885
92	THOMAS J. & KATHERINE A. DAVIES	FEE/TLE	6695	-	6695	1465
93	G.F.P. LLC	FEE/TLE	5965	-	5965	3140
94	RITA M. PLACEWAY	FEE/TLE	4330	-	4330	3930
951	OKRAY ENTERPRISES, INC.	FEE/TLE	425	-	425	1355
952	OKRAY ENTERPRISES, INC.	FEE/TLE	20	-	20	315

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET. RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN PORTAGE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 765584.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	VILLAGE OF PLOVER - WATER	RELEASE OF RIGHTS
201	VILLAGE OF PLOVER - SANITARY SEWER	RELEASE OF RIGHTS
210	WISCONSIN TELEPHONE COMPANY N/K/A AT&T	RELEASE OF RIGHTS
220	WISCONSIN PUBLIC SERVICE - GAS	RELEASE OF RIGHTS
221	WISCONSIN PUBLIC SERVICE - ELECTRIC	RELEASE OF RIGHTS

RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
272	184858.93	172920.00	1" IRON PIPE
276	184833.20	172621.61	1" IRON PIPE
277	184536.60	172631.47	1" IRON PIPE
299	185275.27	172604.40	1" IRON PIPE
704	185318.65	172534.25	1" IRON PIPE
705	185318.60	172529.26	4"X4" CONC. MON.
706	184533.05	172556.83	4"X4" CONC. MON.
707	184534.80	172556.74	1" IRON PIPE
708	184534.79	172554.77	1" IRON PIPE
709	184001.40	172568.54	RAILROAD SPIKE
2294	184763.58	172548.09	1 1/4" IRON PIPE
2297	184875.50	172545.75	1" IRON PIPE
2298	184984.30	172543.12	1" IRON PIPE
2299	185107.19	172539.99	1" IRON PIPE
2300	185315.45	172535.26	1" IRON ROD
2598	184893.40	172619.44	2" IRON PIPE
2599	185299.82	172609.50	1" IRON PIPE
2600	185275.65	172611.46	1" IRON PIPE

BASIS OF R/W	
INSTRUMENT	YEAR
PLOVER ASSESSOR'S PLAT NO. 6	1982
SPRINGVILLE POND SUBDIVISION	1973
CSM NO. 9547	2008
CSM NO. 5090	1992
CSM NO. 4927	1991
CSM NO. 2419	1981
CSM NO. 6285	1996
RW PLAT NO. F05-3 (34)	1957

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF

JASON L. CANCE — PRINTED NAME
SIGNATURE
11-15-2018 — DATE

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

BRENT L. STELLA — PRINTED NAME
SIGNATURE
11-15-2018 — DATE

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

LOCATION SKETCH
NOT TO SCALE

FILE NAME : P:\UZ\W\Witnc\112545\5-final-dsgn\51-drawings\40-TransHwy\040107 RP.dgn
PLOT DATE : 11/15/2018
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : N/A
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 6414-00-25 - 4.07 AMENDMENT NO. 2

ADDS PARCEL 952, AMENDS PARCEL 88, 100, 101, 102, 103, 104, 106, 107, 108, 109, 110, 111, 112, AND 113 AND UTILITY PARCEL 200 OF TRANSPORTATION PROJECT PLAT 6414-00-25-4.07 RECORDED AS DOCUMENT NO. 765977 ALSO AMENDS PARCEL 95 AND UTILITY PARCEL 210 OF TRANSPORTATION PROJECT PLAT 6414-00-25-4.07 AMENDMENT NO. 1 RECORDED AS DOCUMENT NO. 830151

BUS 51, VILLAGE OF PLOVER AND WHITING (STH 54 - MINNESOTA AVE.)

PART OF PARCEL 1 CSM NO. 7658, PART OF LOT 1 CSM NO. 4335, LOCATED IN AND INCLUDING PART OF THE NE 1/4 OF THE NE 1/4; PART OF LOTS 1 & 2, CSM NO. 9031, PART OF LOT 1 CSM NO. 9032, PART OF LOT 2B CSM NO. 4650, PART OF PARCEL 1 CSM NO. 7658, LOCATED IN AND INCLUDING PART OF THE SE 1/4 OF THE NE 1/4; ALL IN SECTION 16; PART OF LOTS 31, 33, 35, & 36 OF PLOVER ASSESSOR'S PLAT NO. 6, PART OF LOT 2 CSM NO. 9031, PART OF LOT 2B CSM NO. 4650, PART OF LOT 1 CSM NO. 9032, PART OF LOT 1 CSM NO. 4927, PART OF LOT 1 CSM NO. 7321, PART OF LOT 1 CSM NO. 5739, PART OF LOT 1 OF HALLIDAY'S SURVEY OF 1888, LOCATED IN AND INCLUDING PART OF THE SW 1/4 OF THE NW 1/4; PART OF LOT 2 CSM NO. 4927, PART OF LOT 18 OF HALLIDAY'S SURVEY OF 1888, LOCATED IN AND INCLUDING PART OF THE NW 1/4 OF THE SW 1/4; PART OF LOT 1 CSM NO. 4335 LOCATED IN AND INCLUDING THE NW 1/4 OF THE NW 1/4; ALL IN SECTION 15; ALL IN T23N, R8E, VILLAGE OF PLOVER, PORTAGE COUNTY, WISCONSIN.

RELOCATION ORDER BUS 51 PORTAGE 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.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET. RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS. IN PORTAGE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 765584.

PISTA 68+10.72
PIY =186,142.407
PIX =172,225.632
DELTA =24°28'04"(RT)
R =400.00'
D =14°19'26"
T =86.73'
L =170.82'

PISTA 66+34.81
PIY =186,037.500
PIX =172,076.989
DELTA =35°12'48"(LT)
R =300.00'
D =19°05'55"
T =95.20'
L =184.38'

RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
243	186860.96	172244.70	3/4" IRON ROD
244	186647.32	172300.82	3/4" IRON ROD
245	186648.45	172296.00	1" IRON PIPE
246	186625.50	172304.68	4"x4" CONC. MON.
251	186556.48	172085.00	3/4" IRON ROD
252	186559.78	172317.32	1" IRON PIPE
253	186553.33	172319.32	1.2" IRON ROD
254	186373.02	172353.25	3/4" IRON ROD
255	186255.30	172375.87	3/4" IRON ROD
260	186068.02	172404.62	1" IRON PIPE
262	186068.05	172292.13	1" IRON PIPE
300	185476.25	172597.97	1" IRON PIPE
301	185878.58	172522.13	1" IRON PIPE
302	186231.68	172456.69	3/4" IRON ROD
303	186557.55	172386.18	3/4" IRON ROD
304	186787.09	172340.94	3/4" IRON ROD
703	185544.13	172505.01	4"x4" CONC. MON.
2303	185565.08	172500.87	1" IRON PIPE
2304	185663.73	172482.00	1" IRON PIPE
2306	185890.92	172438.59	1" IRON PIPE
2448	185565.73	172300.87	3/4" IRON ROD
2449	185565.79	172288.22	1" IRON PIPE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6414-00-25-4.07
AMENDMENT NO. 2

SCALE, FEET
0 50 100

FND. 60D NAIL
Y= 185467.653
X= 172332.757

P.C. 65+39.61
P.I. 65+20.00
Y=186,037.500
X=171,962.177
65+41.51
33.00°
P.I. 66+34.81
P.R.C. 67+23.98
P.I. 68+10.72
P.T. 68+94.80
P.I. 73+02.24
Y=186,594.224
X=172,137.529
P.I. 197+47.42
P.I. 64+02.37
Y=185,836.822
X=172,682.337

VILLAGE OF PLOVER

PATTON DRIVE

POST ROAD / BUSINESS 51

ROBERTS ROAD

MACARTHUR WAY

SIXTEENTH LANE

SEC. LINE = N00°16'55"E 2645.61'

SEC. LINE = S89°56'02"E 5283.05'

STA 69+20.59 PATTON DR = SECTION LINE

STA 196+80.87 POST RD = SECTION LINE

STA 200+47.58 POST RD = STA 62+00 ROBERTS RD
Y=185,831.197
X=172,480.045

STA 204+00.77 POST RD = STA 70+00 PATTON DR
Y=186,178.192
X=172,414.194

STA 208+24.00 POST RD = STA 75+00 MACARTHUR WAY
Y=186,593.995
X=172,335.285

STA 208+08.25 POST RD = SECTION LINE

PISTA 195+01.90
PIY =185,294.381
PIX =172,281.919
DELTA =7°33'13"(LT)
R =3730.00'
D =1°32'10"
T =246.23'
L =491.75'

FND. CUT SANDSTONE
Y= 185545.030
X= 177615.240

FND. HARRISON MON'T
Y= 188113.230
X= 172345.770

SIGN NUMBER	SIGN OWNER
105-1	WHITCO METROCOM
107-1	WHITCO METROCOM

BASIS OF R/W	
INSTRUMENT	YEAR
PLOVER ASSESSOR'S PLAT NO. 6	1982
CSM NO. 4927	1991
CSM NO. 9031	2006
CSM NO. 9032	2006
CSM NO. 937	1975
CSM NO. 7658	2001
CSM NO. 7321	1999
RW PLAT NO. 6414-00-21	1999
RW PLAT NO. F05-3 (34)	1957

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	R/W S.F. REQUIRED EXISTING	R/W S.F. REQUIRED TOTAL	TLE S.F.
88	LOTZER JOINT REVOCABLE TRUST U/A DTD 11-17-92	FEE/TLE	2275	-	2275	1235
95	OKRAY ENTERPRISES INC.	FEE/TLE	260	-	260	1800
100	CORNERSTONE TIRE LLC	FEE/TLE	4830	-	4830	2620
101	KURT W. & PEGGY R. SLOWINSKI	FEE/TLE	4040	-	4040	1325
102	LARRY W. BASINSKI, ALAN J. BASINSKI, BRENDA S. SUPLICKI, & DAVID R. BASINSKI	FEE/TLE	3395	-	3395	1330
103	DAVID R. BASINSKI, JENNIFER LYNN BASINSKI, LARRY W. BASINSKI, & KATHLEEN MARY BASINSKI	FEE/TLE	5825	-	5825	4100
104	CARLITO C. REYES SR. & ERLINDA B. REYES	FEE/TLE	4755	-	4755	3665
105	CHESTER S. SKIPPY	FEE	76800	-	76800	-
106	RICHARD L. DANIELS	FEE/TLE	5505	-	5505	2520
107	CENTRAL WISCONSIN CREDIT UNION	FEE/TLE	8665	-	8665	2560
108	RAYMOND B. ZURAWSKI & CAROL A. ZURAWSKI	FEE/TLE	7700	-	7700	2055
109	PLOVER INVESTMENT GROUP LTD	TLE	-	-	-	2075
110	OPIOLA REVOCABLE TRUST DATED DECEMBER 9, 1991	FEE/TLE	640	-	640	2200
111	PAUL RADOMSKI	FEE/TLE	340	-	340	990
112	GREGORY R. & KAREN M. KURZWEIL	FEE/TLE	875	-	875	3215
113	RAY N. PETERS & FRANCES J. PETERS	FEE/TLE	105	-	105	305
952	OKRAY ENTERPRISES INC.	TLE	-	-	-	870

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	VILLAGE OF PLOVER - WATER	RELEASE OF RIGHTS
210	WISCONSIN TELEPHONE COMPANY N/K/A AT&T	RELEASE OF RIGHTS

UTILITY INTEREST TABLE			
UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
200	88	EASEMENT	DOC.# 368281
	95	EASEMENT	DOC.# 368018
	100	EASEMENT	DOC.# 368148
	101	EASEMENT	DOC.# 368275
	102	EASEMENT	DOC.# 368135
	103	EASEMENT	DOC.# 368136
	104	EASEMENT	DOC.# 368279
	105	EASEMENT	DOC.# 368277
	105	EASEMENT	DOC.# 368280
	106	EASEMENT	DOC.# 368277
	107	EASEMENT	DOC.# 368278
	108	EASEMENT	DOC.# 368859
	109	EASEMENT	DOC.# 368139
	110	EASEMENT	DOC.# 368003
	111	EASEMENT	DOC.# 368020
	112	EASEMENT	DOC.# 368032
	199	EASEMENT	DOC.# 368277
	952	EASEMENT	DOC.# 368030
210	95	EASEMENT	DOC.# 231277
	100	NO EASEMENT OF RECORD	
	101	NO EASEMENT OF RECORD	
	109	EASEMENT	DOC.# 231279
	110	EASEMENT	DOC.# 115277
	111	EASEMENT	DOC.# 231265
	112	EASEMENT	DOC.# 231267
	952	EASEMENT	DOC.# 115272
	952	EASEMENT	DOC.# 231278

CURVE 728-138
L= 54.44'
LC= 54.44'
LCB= N10°19'10"W
R= 3660.50'

CURVE 462-451
L= 67.79'
LC= 67.79'
LCB= S06°04'30"E
R= 1472.25'

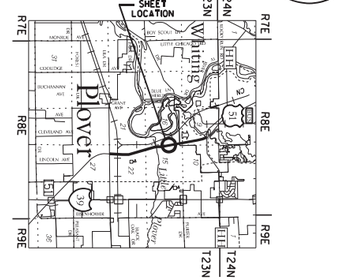
CURVE 772-728
L= 90.23'
LC= 90.22'
LCB= N09°11'14"W
R= 3660.50'

CURVE 3971-462
L= 88.82'
LC= 88.81'
LCB= S09°07'20"E
R= 1472.25'

COURSE TABLE							
FROM	TO	DIRECTION	DISTANCE	FROM	TO	DIRECTION	DISTANCE
3939	728	N89°09'39"E	144.74'	776	736	N79°15'16"E	69.50'
138	139	N10°44'44"W	494.25'	736	455	N89°33'17"E	46.25'
139	4192	S89°54'50"W	390.91'	455	459	S10°44'44"E	563.82'
4192	456	N01°05'50"W	62.19'	459	4063	N88°50'46"E	4.08'
456	141	N01°03'41"W	199.15'	4063	4025	S10°51'02"E	403.11'
141	142	N89°12'31"E	92.09'	4025	460	S25°17'08"E	72.14'
142	145	S10°51'03"E	20.31'	460	461	S23°40'18"W	31.73'
145	146	N89°10'08"E	253.28'	461	3971	S10°51'02"E	217.01'
146	148	N10°44'44"W	309.83'	451	773	S73°20'57"W	45.96'
148	452	N28°58'38"W	74.86'	773	772	S81°31'08"W	69.50'
452	453	N24°04'15"E	41.02'				
453	776	N10°44'44"W	143.63'				

LOCATION SKETCH

NOT TO SCALE



SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF

JASON L. CANCE — PRINTED NAME
SIGNATURE
9-26-2018 — DATE

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

BRENT L. STELLA — PRINTED NAME
SIGNATURE
6-20-2017 — DATE

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

FILE NAME : P:\UZ\W\Witnc\112545\5-final-dsgn\51-drawings\40-TransHwy\040108 RP.dgn
PLOT DATE : 9/26/2018
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : N/A
APPRAISAL PLAT DATE :

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W S.F. REQUIRED			TLE S.F.
			NEW	EXISTING	TOTAL	
108	RAYMOND B. & CAROL A. ZURAWSKI	FEE/TLE	1780	-	1780	595
113	RAY N. & FRANCES J. PETERS	FEE/TLE	1015	-	1015	2400
117	G & DS LLC	FEE/AR/TLE	16432	-	16432	1245
118	ZURAWSKI BROTHERS FAMILY TRUST DATED MAY 16, 2011	FEE/AR/TLE	3417	-	3417	1410
119	PLOVER DEVELOPMENT LLC	FEE/AR/TLE	5658	-	5658	2230
120	RABASKA STORE LLC.	FEE/AR/TLE	3218	-	3218	1880
121	PAINTER PROPERTIES LLC	FEE/AR/TLE	4145	-	4145	3235
122	GOLDEN SANDS HOME BUILDERS ASSOCIATION INC.	AR/TLE	-	-	-	285
123	FRANK JAMES SNIADAJEWSKI	AR/TLE	-	-	-	560
125	MICHAEL D. & MICHELLE L. SUCHON	AR/TLE	-	-	-	870
126	JULIE M. LEPAK	FEE/AR/TLE	180	-	180	975
127	KENNETH L. LEPAK	FEE/AR/TLE	7760	-	7760	4695
128	JEROME R. ROLSTAD	FEE/AR/TLE	3935	-	3935	2210
130	CLIFFORD J. GALLON AND HELEN T. GALLON JOINT REVOCABLE TRUST DATED AUGUST 24, 2006	FEE/AR/TLE	1035	-	1035	1550
131	PORTAGE COUNTY BANK (VENDOR) EAGLESOAR ENTERPRISE LLC (VENDEE)	FEE/AR/TLE	587	-	587	2837
132	GARY L. & KATHLEEN E. NATIONS	FEE/AR/TLE	6480	-	6480	6375
133	STEVEN S. & JANELLE R. PETERSON	FEE/AR/TLE	550	-	550	1225
134	LOUIS F. & CAROL A. GAWLIK	FEE/AR/TLE	3080	-	3080	5865

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET. RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN PORTAGE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 765584.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	VILLAGE OF PLOVER - WATER	RELEASE OF RIGHTS
201	VILLAGE OF PLOVER - SANITARY SEWER	RELEASE OF RIGHTS
210	WISCONSIN TELEPHONE COMPANY N/K/A AT&T	RELEASE OF RIGHTS
220	WISCONSIN PUBLIC SERVICE - GAS	RELEASE OF RIGHTS
221	WISCONSIN PUBLIC SERVICE - ELECTRIC	RELEASE OF RIGHTS
260	VILLAGE OF WHITING - WATER	RELEASE OF RIGHTS
261	VILLAGE OF WHITING - SANITARY SEWER	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 6414-00-25 - 4.08 AMENDMENT NO. 5

AMENDS PARCELS 108 AND 113 OF TRANSPORTATION PROJECT PLAT 6414-00-25-4.08 RECORDED AS DOCUMENT NO. 765978.

BUS 51, VILLAGE OF PLOVER AND WHITING (STH 54 - MINNESOTA AVE.)

PART OF LOTS 5 AND 6 OF PLOVER ASSESSOR'S PLAT NO. 6, PART OF LOT 1, CSM NO. 6838, PART OF LOT 1 CSM NO. 3925, PART OF LOT 1 CSM NO. 4335, PART OF LOT 1 CSM NO. 7661, PART OF LOT 1 CSM NO. 7641, PART OF PARCEL 4 CSM NO. 7655, PART OF PARCEL 3 CSM NO. 7657, PART OF PARCEL 2 CSM NO. 7656, PART OF PARCEL 1 CSM NO. 7658, LOCATED IN AND INCLUDING PART OF THE NE 1/4 OF THE NE 1/4, OF SECTION 16, T23N, R8E, VILLAGE OF PLOVER; PART OF BLOCK 108 OF THE ASSESSOR'S PLAT OF THE VILLAGE OF WHITING, PART LOTS 1 THRU 4 CSM NO. 8259, PART OF LOT 1 CSM NO. 8155, PART OF LOT 1 CSM NO. 7409, LOCATED IN AND INCLUDING PART OF THE NE 1/4 OF THE NE 1/4, SECTION 16, T23N R8E, VILLAGE OF WHITING; PART OF LOT 1 CSM NO. 4335, PART OF LOT 1 CSM NO. 8072, PART OF LOT 1 CSM NO. 6838 LOCATED IN AND INCLUDING PART OF THE NW 1/4 OF THE NW 1/4 OF SECTION 15, T23N R8E, VILLAGE OF PLOVER, PORTAGE COUNTY, WISCONSIN.

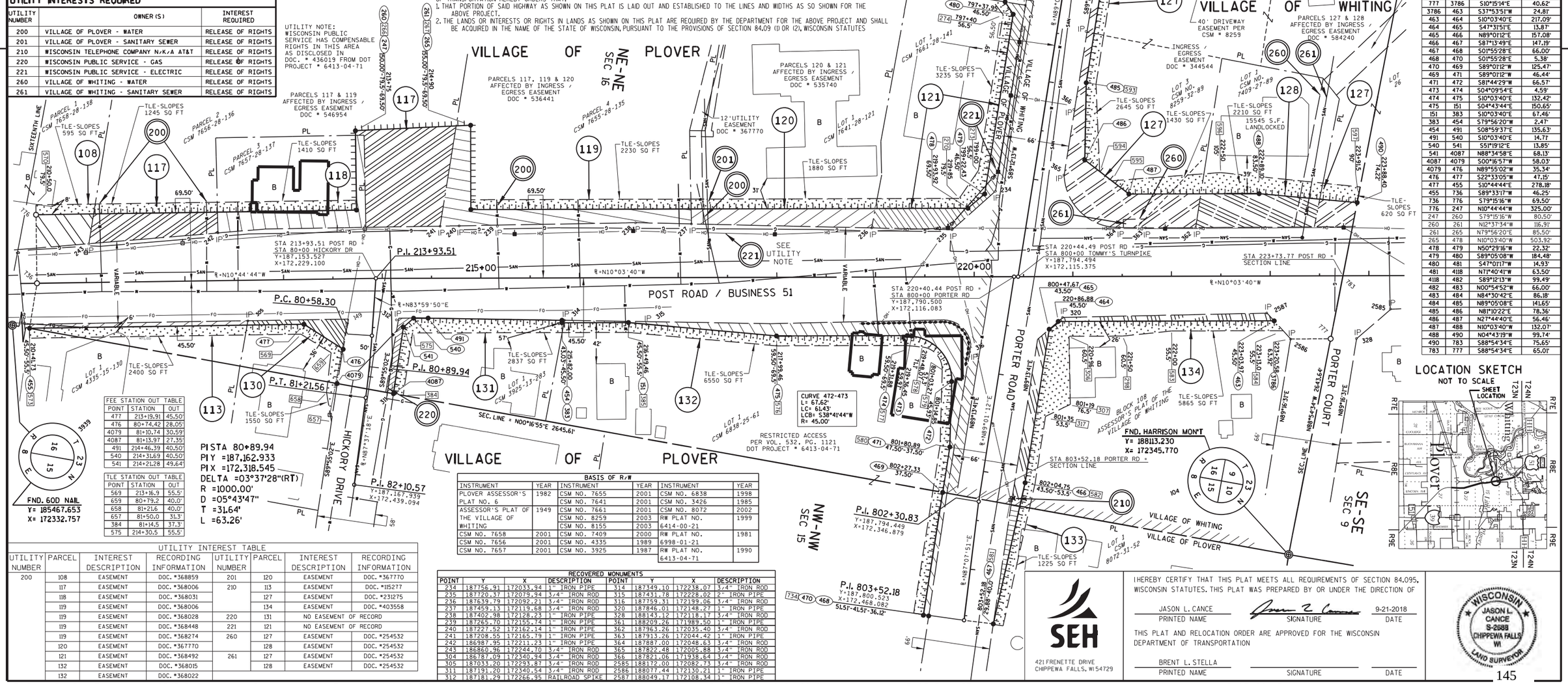
RELOCATION ORDER BUS 51 PORTAGE COUNTY

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

UTILITY NOTE:
WISCONSIN PUBLIC SERVICE HAS COMPENSABLE RIGHTS IN THIS AREA AS DISCLOSED IN DOC. # 436019 FROM DOT PROJECT # 6413-04-71



PISTA 80+89.94
PIY = 187,162.933
PIX = 172,318.545
DELTA = 03°37'28"(RT)
R = 1000.00'
D = 05°43'47"
T = 31.64'
L = 63.26'

CURVE 472-473
L= 67.62'
LC= 61.43'
LCB= 538°41'44"W
R= 45.00'

FND. 60D NAIL
Y= 185467.653
X= 172332.757

FND. HARRISON MON'T
Y= 188163.540
X= 169702.610

FND. HARRISON MON'T
Y= 188113.230
X= 172345.770

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6414-00-25-4.08
AMENDMENT NO. 5

FEE STATION OUT TABLE		
POINT	STATION	OUT
485	797+94.98	37.50'
486	798+72.59	48.29'
487	221+57.03	83.50'

TLE STATION OUT TABLE		
POINT	STATION	OUT
593	797+95.0	47.5'
594	798+81.7	65'
595	221+39.6	97'

FEE STATION OUT TABLE		
POINT	STATION	OUT
477	213+19.91	45.50'
476	80+74.42	28.05'
4079	81+10.74	30.59'
4087	81+13.97	27.35'
491	214+46.39	40.50'
540	214+31.69	40.50'
541	214+21.28	49.64'

TLE STATION OUT TABLE		
POINT	STATION	OUT
569	213+16.9	55.5'
659	80+79.2	40.0'
658	81+21.6	40.0'
657	81+50.0	31.3'
384	81+14.5	37.3'
575	214+30.5	55.5'

INGRESS / EGRESS EASEMENT & SEWER EASEMENT PER CSM NO. 7409			
COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
104	777	N88°54'34"W	222.96'
777	3786	S10°15'14"E	40.62'
3786	463	S37°53'51"W	24.81'
463	464	S10°03'40"E	217.09'
464	465	S47°31'5"E	13.87'
465	466	N89°01'12"E	157.08'
466	467	S87°13'49"E	147.19'
467	468	S01°55'28"E	66.00'
468	470	S01°55'28"E	5.38'
470	469	S89°01'12"W	125.47'
469	471	S89°01'12"W	46.44'
471	472	S81°44'29"W	66.57'
473	474	S04°09'54"E	4.59'
474	475	S10°03'40"E	132.42'
475	151	S04°43'44"E	150.65'
151	383	S10°03'40"E	67.46'
383	454	S79°56'20"W	2.47'
454	491	S08°59'37"E	135.63'
491	540	S10°03'40"E	14.71'
540	541	S61°19'12"E	13.85'
541	4087	N88°34'58"E	68.13'
4087	4079	S00°16'57"W	58.03'
4079	476	N89°55'02"W	35.34'
476	477	S22°33'05"W	47.15'
477	455	S10°44'44"E	278.18'
455	736	S89°33'17"W	46.25'
736	776	S79°15'16"W	69.50'
776	247	N10°44'44"W	325.00'
247	260	S79°15'16"W	80.50'
260	261	N12°37'34"W	116.91'
261	265	N79°56'20"E	85.50'
265	478	N10°03'40"W	503.92'
478	479	N50°29'16"W	22.32'
479	480	S89°05'08"W	184.48'
480	481	S47°01'17"W	14.93'
481	4118	N71°40'41"W	63.50'
4118	482	S89°12'13"W	99.49'
482	483	N00°54'52"W	66.00'
483	484	N84°30'42"E	86.18'
484	485	N89°05'08"E	141.65'
485	486	N81°10'22"E	78.36'
486	487	N27°44'40"E	56.46'
487	488	N10°03'40"W	132.07'
488	490	N04°43'19"W	99.74'
490	783	S88°54'34"E	75.65'
783	777	S88°54'34"E	65.01'

BASIS OF R/W					
INSTRUMENT	YEAR	INSTRUMENT	YEAR	INSTRUMENT	YEAR
PLOVER ASSESSOR'S PLAT NO. 6	1982	CSM NO. 7655	2001	CSM NO. 6838	1998
		CSM NO. 7641	2001	CSM NO. 3426	1985
ASSESSOR'S PLAT OF THE VILLAGE OF WHITING	1949	CSM NO. 7661	2001	CSM NO. 8072	2002
		CSM NO. 8259	2003	RW PLAT NO. 6414-00-21	1999
		CSM NO. 8155	2003		
CSM NO. 7658	2001	CSM NO. 7409	2000	RW PLAT NO. 6998-01-21	1981
CSM NO. 7656	2001	CSM NO. 4335	1989		
CSM NO. 7657	2001	CSM NO. 3925	1987	RW PLAT NO. 6413-04-71	1990

UTILITY INTEREST TABLE							
UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION	UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
200	108	EASEMENT	DOC. #368859	201	120	EASEMENT	DOC. #367770
	117	EASEMENT	DOC. #368006	210	113	EASEMENT	DOC. #115277
	118	EASEMENT	DOC. #368031		127	EASEMENT	DOC. #231275
	119	EASEMENT	DOC. #368006		134	EASEMENT	DOC. #403558
	119	EASEMENT	DOC. #368028	220	131	NO EASEMENT OF RECORD	
	119	EASEMENT	DOC. #368448	221	121	NO EASEMENT OF RECORD	
	119	EASEMENT	DOC. #368274	260	127	EASEMENT	DOC. #254532
	120	EASEMENT	DOC. #367770		128	EASEMENT	DOC. #254532
	121	EASEMENT	DOC. #368492	261	127	EASEMENT	DOC. #254532
	132	EASEMENT	DOC. #368015		128	EASEMENT	DOC. #254532
	132	EASEMENT	DOC. #368022				

RECOVERED MONUMENTS							
POINT	Y	X	DESCRIPTION	POINT	Y	X	DESCRIPTION
234	187756.91	172033.94	1" IRON PIPE	314	187349.10	172238.07	3/4" IRON ROD
235	187720.37	172079.94	3/4" IRON ROD	315	187431.78	172228.02	2" IRON PIPE
236	187639.79	172092.21	3/4" IRON ROD	316	187759.31	172199.06	3/4" IRON ROD
237	187459.13	172119.68	3/4" IRON ROD	320	187846.01	172148.27	1" IRON PIPE
238	187402.98	172128.23	1" IRON PIPE	328	188143.12	172118.17	3/4" IRON ROD
239	187265.70	172155.74	1" IRON PIPE	361	188209.26	171989.50	1" IRON PIPE
240	187227.52	172162.14	1" IRON PIPE	362	187963.26	172035.40	3/4" IRON ROD
241	187208.55	172165.79	1" IRON PIPE	363	187913.26	172044.42	1" IRON PIPE
242	186987.95	172211.23	1" IRON PIPE	364	187887.00	172048.63	3/4" IRON ROD
243	186860.96	172244.70	3/4" IRON ROD	365	187822.48	172005.88	3/4" IRON ROD
304	186787.09	172340.94	3/4" IRON ROD	366	187821.06	171938.64	3/4" IRON ROD
305	187033.20	172293.87	3/4" IRON ROD	2585	188172.00	172082.73	3/4" IRON ROD
311	187191.20	172340.54	3/4" IRON ROD	2586	188077.44	172130.21	1" IRON PIPE
312	187181.29	172266.95	RAILROAD SPIKE	2587	188049.17	172108.34	1" IRON PIPE

LOCATION SKETCH
NOT TO SCALE

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF

JASON L. CANCE — PRINTED NAME
SIGNATURE
9-21-2018 — DATE

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

BRENT L. STELLA — PRINTED NAME
SIGNATURE
DATE

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

FILE NAME : P:\UZ\W\Witnc\112545\5-final-dsgn\51-drawings\40-TransHwy\040109 RP.dgn
PLOT DATE : 9/21/2018
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : N/A
APPRAISAL PLAT DATE : 2-1-18

TRANSPORTATION PROJECT PLAT NO: 6414-00-25 - 4.09 AMENDMENT NO. 2

AMENDS PARCELS 127, 136, 137, 138, 141, 145, 146, 147, & 148 AND UTILITY NO. 260, ADDS UTILITY NO. 221, & 261, AND REMOVES UTILITY NO. 220 AND PROVIDES CLAIFICATION OF ALL UTILITY LOCATIONS OF TRANSPORTATION PROJECT PLAT 6414-00-25-4.09 RECORDED AS DOCUMENT NO. 766746. ALSO AMENDS PARCELS 139, 140, 149, & 150 OF TRANSPORTATION PROJECT PLAT 6414-00-25-4.09 AMENDMENT NO. 1 RECORDED AS DOCUMENT NO. 768061.

BUS 51, VILLAGE OF PLOVER AND WHITING (STH 54 - MINNESOTA AVE.)

THAT PART OF LOTS 4, 5, & 9 THRU 26 OF BLOCK 104, LOTS 2 THRU 8 & 11 THRU 19, OF BLOCK 106 OF THE ASSESSORS PLAT OF THE VILLAGE OF WHITING, PART OF LOT 1 OF CSM NO. 8289, PART OF LOTS 1 & 3 CSM NO. 9392, PART OF RSJ CONDOMINIUM PLAT, PART OF LOTS 1 & 2 OF CSM NO. 9370, PART OF LOT 9.1 OF CSM NO. 2926, PART OF LOT 1 OF CSM NO. 9312, LOCATED IN AND INCLUDING THE SE 1/4 OF THE SE 1/4 OF SECTION 9, T23N, R8E, VILLAGE OF WHITING, PORTAGE COUNTY WISCONSIN.

RELOCATION ORDER BUS. 51 PORTAGE 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 INTEREST OR RIGHT 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.

RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
328	188143.12	172118.17	3/4" IRON ROD
336	189054.17	171899.02	3/4" IRON ROD
348	189439.56	172080.20	3/4" IRON ROD
349	189503.71	171933.68	1" IRON PIPE
356	189174.90	171808.30	
359	188570.53	171926.28	3/4" IRON ROD
360	188420.54	171954.06	3/4" IRON ROD
361	188209.26	171989.50	1" IRON PIPE
612	189505.25	171868.85	1" IRON PIPE
613	189446.95	171823.83	3/4" IRON ROD
614	189154.76	171879.91	1" IRON PIPE
615	188852.94	171938.48	1" IRON PIPE
616	188802.92	171948.18	1" IRON PIPE
617	188752.89	171958.02	2" IRON PIPE
618	188502.04	172007.14	1" IRON PIPE
619	188487.52	172010.25	1" IRON PIPE
621	188722.07	171898.33	1" IRON PIPE
622	189023.89	171837.67	3/4" IRON ROD
623	189174.84	171808.37	3/4" IRON ROD
624	189275.32	171789.17	3/4" IRON ROD
649	188602.14	171987.51	1" IRON PIPE
650	189386.74	171835.17	1" IRON PIPE
652	189426.08	171759.85	2" IRON PIPE
2590	188249.25	172065.08	3/4" IRON ROD
2591	188254.41	172063.91	1" IRON PIPE
2592	188351.33	172041.60	1" IRON PIPE

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
210	WISCONSIN TELEPHONE COMPANY N/K/A AT&T	RELEASE OF RIGHTS
221	WISCONSIN PUBLIC SERVICE - ELECTRIC	RELEASE OF RIGHTS
250	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
260	VILLAGE OF WHITING - WATER	RELEASE OF RIGHTS
261	VILLAGE OF WHITING - SANITARY SEWER	RELEASE OF RIGHTS

SCHEDULE OF LANDS & INTERESTS REQUIRED

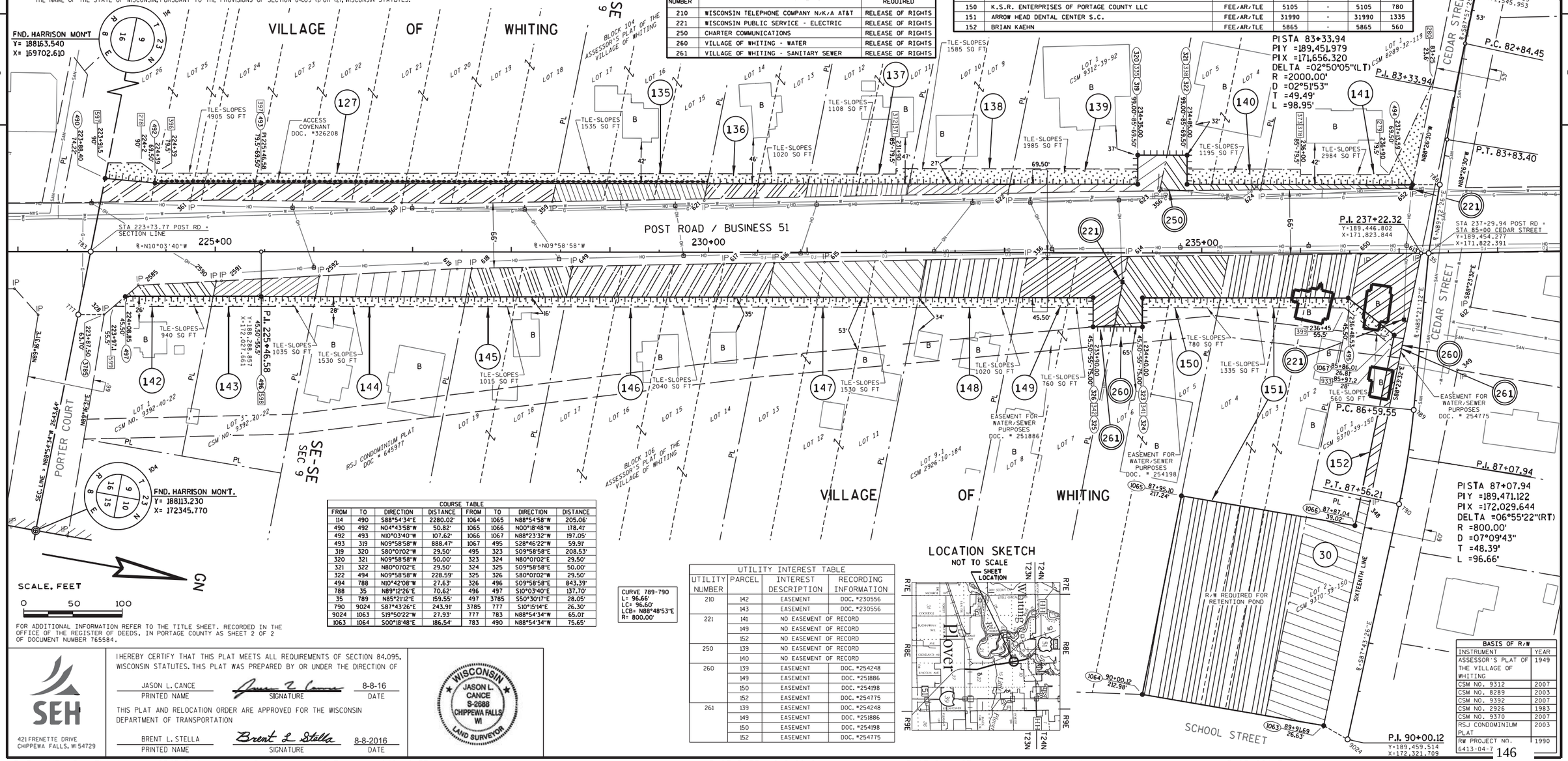
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	R/W S.F. REQUIRED EXISTING	R/W S.F. REQUIRED TOTAL	TLE S.F.
30	ZURAWSKI RENTAL PROPERTIES LLC.	FEE	12570	-	12570	-
127	KENNETH L LEPAK	FEE/AR/TLE	8746	-	8746	4905
135	JOHN C. WALKUSH & PETER J. MERONEK	FEE/AR/TLE	2605	-	2605	1535
136	TERESE L. JONAS	FEE/AR/TLE	1471	-	1471	1020
137	ELLIOTT L. KUGLER	FEE/AR/TLE	1260	-	1260	1108
138	RONALD J. & GAIL L. PECHINSKI	FEE/AR/TLE	1050	-	1050	1585
139	JAMES D. HOM	FEE/AR/TLE	1985	-	1985	1985
140	DENNIS TRZINSKI	FEE/AR/TLE	1310	-	1310	1195
141	RAYMOND E. PENDERGAST AND MARION C. PENDERGAST JOINT REVOCABLE TRUST DATED JUNE 1, 2000	FEE/AR/TLE	697	-	697	2984
142	BERVERLY A. KASDORF (VENDOR) JAYSON A. MENCE (VENDEE)	FEE/AR/TLE	1115	-	1115	940
143	BEVERLY A. NORTHWOOD, N/K/A BEVERLY A. MANCI	FEE/AR/TLE	1895	-	1895	1035
144	SCHERTZ-FAHRNER LLC (UNIT 1) RSJ ENTERPRISES LLC. (UNIT 2)	FEE/AR/TLE	3850	-	3850	1530
145	JACOB G. KURTZWEIL	FEE/AR/TLE	3034	-	3034	1015
146	CHRISTOPHER W. NORTHWOOD	FEE/AR/TLE	5540	-	5540	2040
147	ALAN J. ZURAWSKI	FEE/AR/TLE	6710	-	6710	1530
148	LOCAL UNION 388 BUILDING CORPORATION	FEE/AR/TLE	3985	-	3985	1020
149	PCT PROPERTIES LLC	FEE/AR/TLE	4905	-	4905	760
150	K.S.R. ENTERPRISES OF PORTAGE COUNTY LLC	FEE/AR/TLE	5105	-	5105	780
151	ARROW HEAD DENTAL CENTER S.C.	FEE/AR/TLE	31990	-	31990	1335
152	BRIAN KAEHN	FEE/AR/TLE	5865	-	5865	560

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Portage COUNTY, WISCONSIN AT 8:30am ON 8/16/2016 AS DOCUMENT # 776548 AND FILED IN Vol. 45a

Cynthia A. Wisneski
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6414-00-25-4.09
AMENDMENT NO. 2



COURSE TABLE							
FROM	TO	DIRECTION	DISTANCE	FROM	TO	DIRECTION	DISTANCE
114	490	S88°54'34"E	2280.02'	1064	1065	N88°54'58"W	205.06'
490	492	N04°43'58"W	50.82'	1065	1066	N00°18'48"W	178.41'
492	493	N10°03'40"W	107.62'	1066	1067	N88°23'32"W	197.05'
493	319	N09°58'58"W	888.47'	1067	495	S28°46'22"W	59.91'
319	320	S80°01'02"W	29.50'	495	323	S09°58'58"E	208.53'
320	321	N09°58'58"W	50.00'	323	324	N80°01'02"E	29.50'
321	322	N80°01'02"E	29.50'	324	325	S09°58'58"E	50.00'
322	494	N09°58'58"W	228.59'	325	326	S80°01'02"W	29.50'
494	788	N10°42'08"W	27.63'	326	496	S09°58'58"E	843.39'
788	35	N89°12'26"E	70.62'	496	497	S10°03'40"E	137.70'
35	789	N85°21'12"E	159.55'	497	3785	S50°30'17"E	28.05'
790	9024	S87°43'26"E	243.91'	3785	777	S10°15'14"E	26.30'
9024	1063	S19°50'22"W	27.93'	777	783	N88°54'34"W	65.01'
1063	1064	S00°18'48"E	186.54'	783	490	N88°54'34"W	75.65'

CURVE 789-790
L= 96.66'
LC= 96.60'
LCB= N88°48'53"E
R= 800.00'

UTILITY INTEREST TABLE			
UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
210	142	EASEMENT	DOC. #230556
	143	EASEMENT	DOC. #230556
221	141	NO EASEMENT OF RECORD	
	149	NO EASEMENT OF RECORD	
	152	NO EASEMENT OF RECORD	
250	139	NO EASEMENT OF RECORD	
	140	NO EASEMENT OF RECORD	
260	139	EASEMENT	DOC. #254248
	149	EASEMENT	DOC. #251886
	150	EASEMENT	DOC. #254198
	152	EASEMENT	DOC. #254775
261	139	EASEMENT	DOC. #254248
	149	EASEMENT	DOC. #251886
	150	EASEMENT	DOC. #254198
	152	EASEMENT	DOC. #254775

LOCATION SKETCH
NOT TO SCALE
SHEET LOCATION
Plover
Whiting
T24N T23N R7E R8E R9E

BASIS OF R/W	
INSTRUMENT	YEAR
ASSESSOR'S PLAT OF THE VILLAGE OF WHITING	1949
CSM NO. 9312	2007
CSM NO. 8289	2003
CSM NO. 9392	2007
CSM NO. 2926	1983
CSM NO. 9370	2007
RSJ CONDOMINIUM PLAT	2003
RW PROJECT NO. 6413-04-7	1990

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF

JASON L. CANCE — PRINTED NAME
SIGNATURE — 8-8-16 DATE

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

BRENT L. STELLA — PRINTED NAME
SIGNATURE — 8-8-2016 DATE

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

FILE NAME : P:\UZ\W\Witnc\112545\5-final-dsgn\51-drawings\40-TransHwy\040110 RP.dgn
PLOT DATE : 8/8/2016
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : N/A
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 6414-00-25 - 4.10 AMENDMENT NO. 3

AMENDS PARCEL 158 OF TRANSPORTATION PROJECT PLAT NO. 6414-00-25-4.10 AMENDMENT NO. 2 RECORDED AS DOCUMENT NO. 820587.

PART OF PARCEL A OF CSM V. 2, P. 34, PART OF LOT 2 OF CSM NO. 1271, PART OF LOTS 1, 7, & 8 OF BLOCK 6 OF ASSESSOR'S PLAT OF MCDILL, PART OF LOTS 3 & 4 OF BLOCK 5 ASSESSOR'S PLAT OF MCDILL, PART OF LOT 4-A OF CSM NO. 2034, PART OF LOT 2 OF CSM NO. 6607, PART OF LOT 3 OF CSM NO. 1034, PART OF LOTS 1, 4, 5, 7, 8, & OUTLOT 1 OF CSM NO. 899, PART OF LOTS 1, 2, 4, 5 & 8 OF BLOCK 3, PART OF LOTS 1 THRU 4 OF BLOCK 4, PART OF LOTS 1 & 2 OF BLOCK 5, ALL IN RICKER SECOND ADDITION TO MCDILL, PART OF LOTS 3 & 4 OF CSM NO. 6463, LOCATED IN AND INCLUDING PART OF THE NE 1/4 OF THE SE 1/4 OF SECTION 9, T23N, R8E, VILLAGE OF WHITING, PORTAGE COUNTY, WISCONSIN.

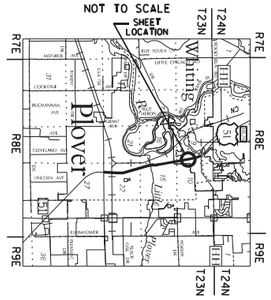
RELOCATION ORDER BUS. 51 PORTAGE COUNTY

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.

LOCATION SKETCH
NOT TO SCALE



SCHEDULE OF LANDS & INTERESTS REQUIRED

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

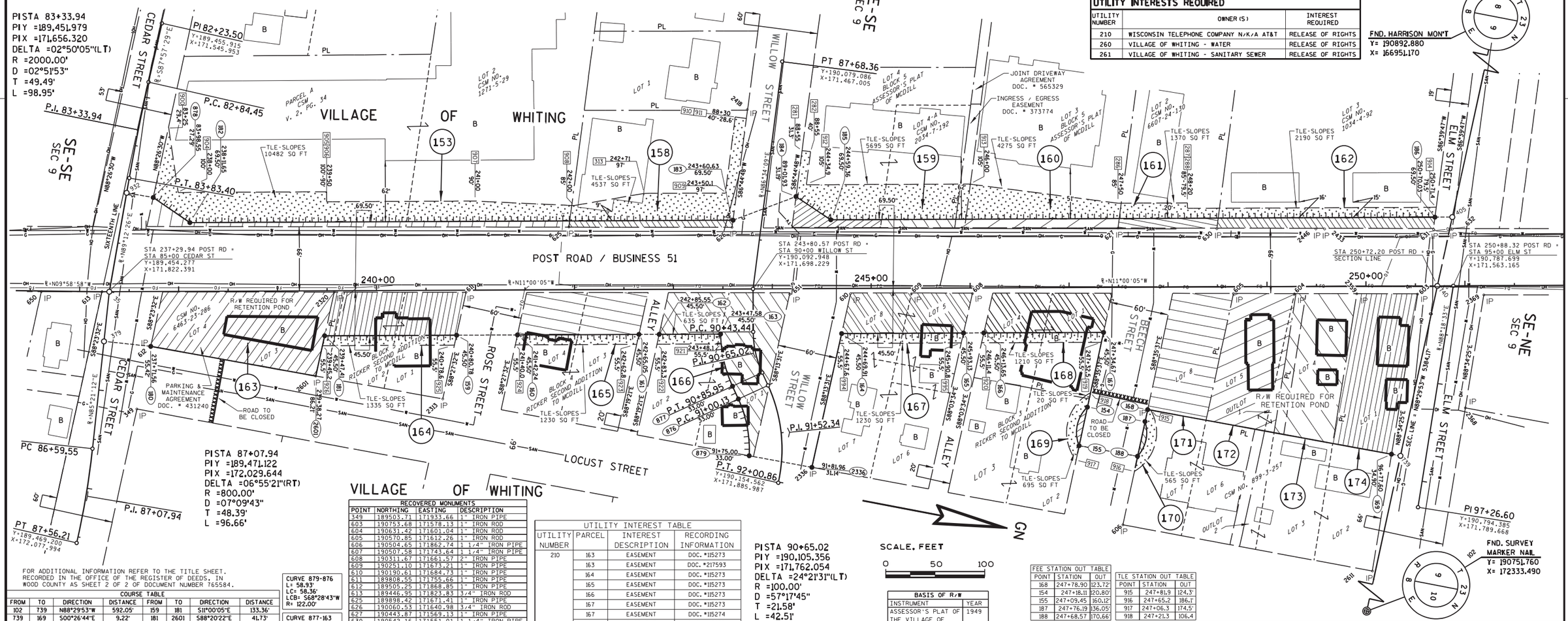
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	R/W S.F. REQUIRED EXISTING	R/W S.F. REQUIRED TOTAL	TLE S.F.
153	ARISTA PROPERTY LLC.	FEE/AR/TLE	2700	-	2700	10482
158	E&L ALTMANN LLC.	FEE/AR/TLE	1120	-	1120	4537
159	TEDMARK PROPERTIES LLC.	FEE/AR/TLE	1785	-	1785	5695
160	WOLFF INVESTMENTS LLC.	FEE/AR/TLE	1495	-	1495	4275
161	MARK L. & SABINE HINTZ	FEE/AR/TLE	985	-	985	1370
162	DANIEL R. BARNARD	FEE/AR/TLE	2360	-	2360	2190
163	KIMBERLY KOELEMAY	FEE	12135	-	12135	-
164	RONALD L. WILLIE, AND SUE E. WILLIE, & TME OF SP LLC.	FEE/AR/TLE	5825	-	5825	1335
165	KENNETH L. MANSKE & MARY LOU HARRIS-MANSKE	FEE/AR/TLE	5235	-	5235	1230
166	LEONARD E. & KATHLEEN A. NORTON	FEE/AR/TLE	9040	-	9040	635
167	LINDA L. DAHLMAN	FEE/AR/TLE	5015	-	5015	1230
168	BRIAN J. & DEBRA A. FREDRICKSON	FEE/AR/TLE	4815	-	4815	1230
169	CORY A. PISKA	FEE/TLE	170	-	170	595
170	THE LEPAK TRUST U/A DATED JULY 26 1991	FEE/TLE	115	-	115	565
171	LL BENDER OIL COPORATION	FEE	7540	-	7540	-
172	FREDERICK S. LANDOWSKI, SANDRA L. LANDOWSKI, & ETAL.	FEE	9010	-	9010	-
173	DONALD J. FIX	FEE	8950	-	8950	-
174	MARY ECKES	FEE	9630	-	9630	-

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6414-00-25-4.10
AMENDMENT NO. 3

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
210	WISCONSIN TELEPHONE COMPANY N/K/A AT&T	RELEASE OF RIGHTS
260	VILLAGE OF WHITING - WATER	RELEASE OF RIGHTS
261	VILLAGE OF WHITING - SANITARY SEWER	RELEASE OF RIGHTS

FND. HARRISON MON'T
Y= 190892.880
X= 166951.170



FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN WOOD COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 765584.

COURSE TABLE

FROM	TO	DIRECTION	DISTANCE	FROM	TO	DIRECTION	DISTANCE
102	739	N88°29'53"W	592.05'	159	181	S11°00'05"E	133.36'
739	169	S00°26'44"E	9.22'	181	2601	S88°20'22"E	41.73'
169	168	S00°26'44"E	250.49'	2601	180	S00°31'56"E	169.53'
168	187	S88°35'37"E	12.62'	180	379	S04°38'47"E	47.50'
188	155	S00°53'39"E	60.05'	379	35	S85°21'12"W	50.47'
154	167	N88°35'37"W	77.10'	35	932	S89°12'26"W	101.45'
167	166	S11°00'05"E	121.02'	932	878	N00°47'20"W	27.29'
166	165	S11°00'05"E	20.52'	878	182	N23°40'25"E	44.84'
165	164	S11°00'05"E	123.23'	182	183	N11°00'05"W	548.98'
164	2336	S88°13'31"E	138.55'	183	184	N31°18'54"W	67.99'
2336	879	S00°14'57"E	64.49'	184	185	N23°01'25"E	42.18'
876	877	S54°38'24"W	14.18'	185	186	N11°00'05"W	610.67'
163	162	S11°00'05"E	62.03'	186	405	N11°00'05"W	17.59'
162	161	S11°00'05"E	20.50'	405	740	S88°29'53"E	71.19'
161	160	S11°00'05"E	122.80'	740	739	S88°29'53"E	175.46'
160	159	S11°00'05"E	61.47'				

CURVE 879-876
L= 58.93'
LC= 58.36'
LCB= S68°28'43"W
R= 122.00'

CURVE 877-163
L= 54.48'
LC= 54.10'
LCB= S66°22'29"W
R= 133.00'

CURVE 187-188
L= 37.11'
LC= 35.44'
LCB= S88°35'37"E
R= 35.50'

CURVE 155-154
L= 42.81'
LC= 40.26'
LCB= N88°35'37"W
R= 35.50'

RECOVERED MONUMENTS

POINT	NORTHING	EASTING	DESCRIPTION
349	189503.71	171933.66	1" IRON PIPE
603	190753.68	171578.13	1" IRON ROD
604	190631.42	171601.04	1" IRON ROD
605	190570.85	171612.26	1" IRON ROD
606	190504.65	171862.74	1 1/4" IRON PIPE
607	190507.58	171743.64	1 1/4" IRON PIPE
608	190311.67	171661.57	2" IRON PIPE
609	190251.10	171673.21	1" IRON PIPE
610	190190.61	171684.73	1" IRON PIPE
611	189808.55	171755.66	1" IRON PIPE
612	189505.25	171868.85	1" IRON PIPE
613	189446.95	171823.83	3/4" IRON ROD
625	189898.42	171671.41	1" IRON PIPE
626	190060.53	171640.98	3/4" IRON ROD
627	190443.87	171569.13	1" IRON PIPE
630	190542.16	171551.01	1 1/4" IRON PIPE
631	190757.31	171510.94	1 1/4" IRON PIPE
632	190776.01	171507.04	3/4" IRON ROD
651	190130.48	171696.53	1" IRON PIPE
652	189426.08	171759.85	2" IRON PIPE
2313	189805.58	171865.98	2" IRON PIPE
2320	189677.75	171780.35	PK NAIL
2336	190185.04	171864.33	1 1/4" IRON PIPE
2359	190693.35	171589.27	1" IRON PIPE
2367	190827.11	171863.61	3/4" IRON ROD
2368	190822.61	171682.07	3/4" IRON ROD
2369	190819.71	171566.44	1" IRON PIPE
2433	190649.20	171530.97	SURVEY NAIL
2446	190640.45	171532.54	MAG NAIL
2601	189675.23	171867.27	1" IRON PIPE
2611	190761.26	171861.61	1" SQ. IRON BAR

UTILITY INTEREST TABLE

UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
210	163	EASEMENT	DOC. #115273
	163	EASEMENT	DOC. #217593
	164	EASEMENT	DOC. #115273
	165	EASEMENT	DOC. #115273
	166	EASEMENT	DOC. #115273
	167	EASEMENT	DOC. #115273
	167	EASEMENT	DOC. #115274
	168	EASEMENT	DOC. #115273
	169	EASEMENT	DOC. #115273
	170	EASEMENT	DOC. #115273
	171	EASEMENT	DOC. #115273
	172	EASEMENT	DOC. #115273
	173	EASEMENT	DOC. #115273
	174	EASEMENT	DOC. #115273
260	172	EASEMENT	DOC. #251974
	173	EASEMENT	DOC. #251974
261	172	EASEMENT	DOC. #251974
	173	EASEMENT	DOC. #251974

BASIS OF R/W

INSTRUMENT	YEAR
ASSESSOR'S PLAT OF THE VILLAGE OF WHITING A/K/A ASSESSOR'S PLAT OF MCDILL	1949
RICKER'S SECOND ADDITION TO MCDILL	2001
CSM V. 2, P. 34	2001
CSM NO. 1271	2001
CSM NO. 2034	2001
CSM NO. 6607	2001
CSM NO. 1034	2001
CSM NO. 6463	2003
CSM NO. 899	2003

FEE STATION OUT TABLE

POINT	STATION	OUT
168	247+78.90	123.72'
154	247+18.11	120.80'
155	247+09.45	160.12'
187	247+76.19	136.05'
188	247+68.57	170.66'

TLE STATION OUT TABLE

POINT	STATION	OUT
915	247+81.9	124.3'
916	247+65.2	186.1'
917	247+06.3	174.5'
918	247+21.3	106.4'

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF

JASON L. CANCE — PRINTED NAME
SIGNATURE
12-19-16 — DATE

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

BRENT L. STELLA — PRINTED NAME
SIGNATURE
12-22-16 — DATE

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

FND. SURVEY MARKER NAIL
Y= 190751.760
X= 172333.490

FILE NAME : P:\UZ\W\Witnc\112545\5-final-dsgn\51-drawings\40-TransHwy\040111 RP.dgn
PLOT DATE : 12/19/2016
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : N/A
APPRAISAL PLAT DATE :

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
102	404	N88°29'53"W	720.91'
404	740	N88°29'53"W	46.61'
740	405	N88°29'53"W	71.19'
405	800	N11°00'05"W	1.59'
800	1056	N11°00'05"W	264.01'
175	4237	S79°42'50"W	12.35'
4237	4236	N10°39'59"W	128.78'
4236	4235	S80°56'54"W	2.98'
177	178	N60°07'18"W	60.27'
178	1057	N01°17'48"W	54.50'
1057	56	N88°42'12"E	90.00'
170	171	N57°52'37"E	50.00'
172	174	S70°24'24"E	36.39'
174	128	N88°42'12"E	143.43'
129	131	S81°09'12"E	47.94'
143	140	S87°16'07"E	66.17'
140	458	S86°44'04"E	95.76'
458	457	S01°36'15"E	75.13'
457	3605	S88°38'32"W	97.53'
3605	1050	S84°49'13"W	66.23'
1051	3562	S88°40'40"W	351.72'
1052	1052	S10°44'46"E	175.73'
1052	1053	S16°46'20"E	208.61'
1054	1055	S11°00'05"E	240.19'
1055	404	S11°00'05"E	50.90'

BASIS OF R/W	
INSTRUMENT	YEAR
ASSESSOR'S PLAT OF THE VILLAGE OF WHITING A/K/A ASSESSOR'S PLAT OF MCDILL	1949
CSM NO. 7212	1999
CSM NO. 3092	1984
CSM NO. 5574	1993
CSM NO. 3308	1985
CSM NO. 1074	1976
CSM NO. 10020	2010
CSM NO. 8969	2005
CSM NO. 4625	1990
CSM NO. 413	1972
CSM NO. 3916	1987
CSM NO. 8977	2005
RW PLAT NO. 6413-01-21	1981
RW PLAT NO. 6998-01-71	1997
RW PLAT NO. 6998-01-21	1993

CURVE 1056-175	CURVE 128-129	CURVE 56-170	CURVE 1050-1051
L= 131.47'	L= 173.68'	L= 129.04'	L= 99.58'
LC= 131.45'	LC= 173.46'	LC= 129.02'	LC= 99.57'
LCB= N12°39'37"W	LCB= S83°35'25"E	LCB= N30°08'36"W	LCB= N88°49'15"W
R= 2270.50'	R= 989.90'	R= 2340.00'	R= 2241.50'
CURVE 4235-177	**CURVE 131-143**	**CURVE 171-172**	**CURVE 1053-1054**
L= 375.36'	L= 186.45'	L= 50.90'	L= 240.26'
LC= 374.92'	LC= 186.38'	LC= 50.90'	LC= 240.16'
LCB= N22°18'29"W	LCB= S84°10'57"E	LCB= S31°07'10"E	LCB= S13°53'13"E
R= 2241.83'	R= 1956.50'	R= 2390.00'	R= 2385.50'

SCALE, FEET
0 50 100

GN

FND. HARRISON MON'T
Y= 190892.880
X= 166951.170

VILLAGE OF WHITING

POST ROAD / BUSINESS 51

ELM STREET

MCDILL POND

CTH HH / MCDILL AVENUE

LOCUST ST.

STA 250+88.32 POST RD = STA 95+00.00 ELM STREET
Y=190,787.699
X=171,563.165

STA 260+70.46 POST RD = STA 900+00.00 CTH HH
Y=191,719.996
X=171,270.811

SEC. LINE = N88°29'53"W 5384.17'

NE-SE SEC 9

SE-NE SEC 9

P.C. 253+53.21

P.C. 901+83.43

P.I. 902+89.96

P.I. 903+96.29

P.I. 905+21.01

P.I. 907+75.00
Y=191,713.983
X=172,045.274

P.T. 906+45.46

P.I. 97+26.60
Y=190,794.385
X=171,789.668

FND. SURVEY MARKER NAIL
Y= 190751.760
X= 172333.490

PISTA 262+15.54
PIY = 191,894.20
PIX = 171,348.05
DELTA = 40°27'35"(LT)
R = 2340.00'
D = 2°26'55"
T = 862.33'
L = 1652.40'

P.I. 262+15.54

STATION OUT TABLE		
POINT	STATION	OUT
174	900+40.00	81.50'
1512	900+40.0	91.5'

PISTA 902+89.96
PIY = 191,726.557
PIX = 171,560.702
DELTA = 6°10'54"(RT)
R = 1973.00'
D = 2°54'14"
T = 106.54'
L = 212.87'

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6414-00-25-4.11
AMENDMENT NO. 4

PISTA 905+21.01
PIY = 191,706.865
PIX = 171,791.116
DELTA = 6°29'21"(LT)
R = 2,200.00'
D = 2°36'16"
T = 124.72'
L = 249.17'

RECOVERED MONUMENTS			
POINT	NORTHING	EASTING	DESCRIPTION
631	190757.312	171510.935	1 1/4" IRON PIPE
632	190776.014	171507.043	3/4" IRON ROD
633	190938.244	171476.996	3/4" IRON ROD
634	191019.959	171460.425	1" IRON PIPE
635	191165.213	171429.372	3/4" IRON ROD
637	191286.030	171373.128	1" IRON PIPE
638	191665.881	171216.869	CHISELED X
641	191273.991	171297.508	1" IRON PIPE
642	191342.191	171305.651	1" IRON PIPE
643	191338.969	171285.949	1" IRON PIPE
644	191407.060	171293.943	1" IRON PIPE
645	191408.597	171303.744	1" IRON PIPE
714	191473.371	171292.219	1" IRON PIPE
2368	190822.610	171682.070	3/4" IRON ROD
2369	190819.710	171566.440	1" IRON PIPE
2375	191063.060	171520.330	RAILROAD SPIKE
2378	191405.610	171455.320	3/4" IRON ROD
2439	191162.110	171412.280	1" IRON PIPE
2465	191670.230	171766.290	3/4" IRON ROD
2484	191686.840	170991.620	3/4" IRON ROD
2485	191665.850	171576.550	3/4" IRON ROD
2543	191777.890	171363.150	CHISELED X
2544	191773.390	171390.750	CHISELED X
2560	191782.590	171265.220	CHISELED X
2565	191872.390	171271.030	1" IRON PIPE
2566	191845.800	171228.680	1" IRON PIPE
2547	191747.460	171858.030	CHISELED X
2602	191422.890	171859.470	1" IRON PIPE
2603	191538.520	171858.770	3/4" IRON ROD
2604	191794.230	171392.710	SURVEY NAIL
2605	191791.330	171384.620	SURVEY NAIL
2609	191290.310	171477.180	1" IRON PIPE

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
210	WISCONSIN TELEPHONE COMPANY N/K/A AT&T	RELEASE OF RIGHTS
220	WISCONSIN PUBLIC SERVICE CORPORATION (GAS)	RELEASE OF RIGHTS
221	WISCONSIN PUBLIC SERVICE CORPORATION (ELECTRIC)	RELEASE OF RIGHTS
250	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
260	VILLAGE OF WHITING (WATER)	RELEASE OF RIGHTS
261	VILLAGE OF WHITING (SANITARY SEWER)	RELEASE OF RIGHTS

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET. RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN PORTAGE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 765584.

UTILITY INTEREST TABLE			
UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
210	175	NO EASEMENT OF RECORD	
	180	EASEMENT	DOC. #115275
	180	EASEMENT	DOC. #115273 & DOC. #115274
	181	EASEMENT	DOC. #115274
	182	EASEMENT	DOC. #115273
	184	NO EASEMENT OF RECORD	
	190	NO EASEMENT OF RECORD	
	192	NO EASEMENT OF RECORD	
	193	EASEMENT	DOC. #481278
220	179	EASEMENT	DOC. #559713
	179	EASEMENT	DOC. #731672
	185	NO EASEMENT OF RECORD	
	193	NO EASEMENT OF RECORD	
221	179	EASEMENT	DOC. #731672
	192	NO EASEMENT OF RECORD	
250	179	NO EASEMENT OF RECORD	
260	175	EASEMENT	DOC. #251716
	175	EASEMENT	DOC. #647248
	175	EASEMENT	DOC. #647249
	196	EASEMENT	DOC. #254195
	193	NO EASEMENT OF RECORD	
261	175	EASEMENT	DOC. #251716
	175	EASEMENT	DOC. #647248
	175	EASEMENT	DOC. #647249
	196	EASEMENT	DOC. #254195

LOCATION SKETCH
NOT TO SCALE
SHEET LOCATION
Plover
Whiting

TRANSPORTATION PROJECT PLAT NO: 6414-00-25 - 4.11 AMENDMENT NO. 4

AMENDS PARCELS 184, 196, & 197 OF TRANSPORTATION PROJECT PLAT NO. 6414-00-25-4.11 AMENDMENT NO. 2 RECORDED AS DOCUMENT NO. 820588.

PART OF LOT 4 CSM NO. 7212, LOT 3 CSM NO. 3092, LOT 1 OF BLOCK 4 OF THE ASSESSOR'S PLAT OF THE VILLAGE OF WHITING, LOT 12 CSM NO. 3308, LOT 11-O CSM NO. 1074, LOTS 1, 2A. 2B, 7 & 8 OF BLOCK 3 OF THE ASSESSOR'S PLAT OF MCDILL, LOT 1 CSM NO. 10020, LOT 1 OF CSM NO. 8969, LOT 1 OF CSM NO. 4625, PART OF LOT 4, 5, 6 & OUTLOT 3 OF BLOCK 4, LOT 3 OF BLOCK 2, IN THE ASSESSOR'S PLAT OF MCDILL, LOT 1 CSM NO. 8977, LOT 1A CSM NO. 2439, OUTLOT 2 CSM NO. 3916, LOTS 2 THRU 4 OF BLOCK 32 OF THE ASSESSOR'S PLAT OF THE VILLAGE OF WHITING, LOT 4 CSM NO. 413, LOCATED IN AND INCLUDING PART OF THE SE 1/4 OF THE NE 1/4, T23N, R8E, VILLAGE OF WHITING, PORTAGE COUNTY, WISCONSIN.

RELOCATION ORDER BUS. 51 PORTAGE 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

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED			TLE S.F.
			NEW	EXISTING	TOTAL	
175	WLCFC 2006-4 POST ROAD CENTER LLC	FEE/AR/TLE	1975	-	1975	1630
176	POINT PROFESSIONAL IMPRESSIONS LLC	FEE/AR/TLE	1165	-	1165	915
178	LINDY M. HORN, LIFE ESTATE	AR/TLE	-	-	-	465
179	VILLAGE OF WHITING	FEE/AR/TLE	690	-	690	4527
180	LINDA J. JORGENSON	FEE/AR/TLE	8915	-	8915	2330
181	PRECISION GLASS & DOOR LLC.	FEE/AR/TLE	3860	-	3860	890
182	WILLIAM C. BASLER	FEE/AR/TLE	3065	-	3065	1130
183	KEVIN D. & PAMELA R. LAKE	FEE/AR/TLE	1810	-	1810	1637
184	MCDILL AUTO WRECKING, INC.	FEE/TLE	6395	-	6395	5150
185	POINT PROFESSIONAL IMPRESSIONS LLC	FEE/AR/TLE	4575	-	4575	1810
187	GARY R. MANSAVAGE	AR/TLE	-	-	-	700
188	GERALD J. & LYNN W. FIRKUS	FEE/AR/TLE	250	-	250	555
189	JOSEPH F. POLAREK II	AR/TLE	-	-	-	800
190	MANFRED E. DONATH & IRMGARD B. DONATH	FEE/AR/TLE	370	-	370	960
192	KURT A. GLENZER & DIANE M. GLENZER	FEE/AR/TLE	4240	-	4240	1100
193	BEVERLY A. LOPEZ	FEE/AR/TLE	3145	-	3145	885
196	MCDILL AUTO WRECKING, INC.	TLE	-	-	-	1200
197	MCDILL AUTO WRECKING, INC.	FEE/TLE	1130	-	1130	650

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF

JASON L. CANCE — PRINTED NAME — SIGNATURE — 2-8-18 DATE

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

BRENT L. STELLA — PRINTED NAME — SIGNATURE — 2-9-2018 DATE

WISCONSIN JASON L. CANCE S-2588 CHIPPEWA FALLS WI LAND SURVEYOR

FILE NAME : P:\UZ\W\Witnc\112545\5-final-dsgn\51-drawings\40-TransHwy\040112 RP.dgn
PLOT DATE : 2/8/2018
PLOT BY : SEH
PLOT NAME :
PLOT SCALE : N/A
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 6414-00-25 - 4.12 AMENDMENT NO. 1

ADDS PARCEL 185 & 195, AMENDS PARCEL 179, ADDS UTILITY NO. 221, AND AMENDS UTILITY NO. 220 OF TRANSPORTATION PROJECT PLAT NO. 6414-00-25-4.12 RECORDED AS DOCUMENT NO. 766749

PART OF BLOCK 31 OF THE ASSESSOR'S PLAT OF THE VILLAGE OF WHITING, OUTLOT 3 OF BLOCK 4 OF THE ASSESSOR'S PLAT OF MCDILL, LOCATED IN AND INCLUDING PART OF THE SW 1/4 OF THE NE 1/4 AND THE NW 1/4 OF THE NE 1/4 AND THE SE 1/4 OF THE NE 1/4 AND THE NE 1/4 OF THE NE 1/4, VILLAGE OF WHITING, PORTAGE COUNTY, WISCONSIN.

RELOCATION ORDER BUS. 51 PORTAGE 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.

UTILITY INTEREST TABLE			
UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
220	179	EASEMENT	DOC. #559713
	179	EASEMENT	DOC. #731672
221	179	EASEMENT	DOC. #731672

FND. HARRISON MON'T
Y= 190892.880
X= 166951.170

CURVE 1068-130
L= 65.01'
LC= 65.00'
LCB= N82°03'33"W
R= 1028.92'

CURVE 130-3616
L= 298.33'
LC= 295.67'
LCB= N83°00'26"W
R= 643.51'

CURVE 170-56
L= 129.04'
LC= 129.03'
LCB= S30°08'36"E
R= 2340.00'

CURVE 4234-4232
L= 338.68'
LC= 338.34'
LCB= N41°33'47"W
R= 2191.83'

CURVE 179-1068
L= 121.87'
LC= 121.80'
LCB= N87°15'45"W
R= 1028.92'

FROM	TO	DIRECTION	DISTANCE
102	4216	N88°29'50"W	1337.66'
4216	1068	N00°30'40"W	880.85'
3616	1549	N69°43'20"W	223.49'
1549	1550	N20°32'24"E	40.47'
1550	1552	N20°32'24"E	126.95'
1552	3615	S38°48'49"E	101.52'
3615	3617	S82°59'49"E	284.91'
3617	3618	S87°19'50"E	161.10'
3618	4234	N00°30'40"W	109.74'
4232	4229	S87°27'29"W	315.86'
4229	1074	N38°32'20"E	342.83'
1074	655	N50°22'14"E	86.85'
655	654	S52°46'51"E	109.66'
654	653	S48°00'50"E	260.22'
653	585	S42°44'46"E	156.62'
585	566	S32°43'37"E	260.72'
566	4233	S18°26'27"E	53.33'
4233	170	S57°52'37"W	77.18'
56	1057	S88°42'12"W	90.00'
1057	178	S01°17'48"E	54.50'
178	179	S88°42'12"W	72.00'

FND. SURVEY MARKER
NAIL
Y= 190751.760
X= 172333.490

PISTA 894+91.11
PIY = 191,709.31
PIX = 170,754.57
DELTA = 21°50'12"(LT)
R = 1600.00'
D = 3°34'52"
T = 308.64'
L = 609.79'

PISTA 262+15.54
PIY = 191,894.20
PIX = 171,348.05
DELTA = 40°27'35"(LT)
R = 2340.00'
D = 2°26'55"
T = 862.33'
L = 1652.40'

STA 260+70.46 POST RD = STA 900+00.00 CTH HH
Y=191,719.996
X=171,270.811

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED			TLE S.F.
			NEW	EXISTING	TOTAL	
185	POINT PROFESSIONAL IMPRESSIONS LLC	FEE/AR	50	-	50	-
179	VILLAGE OF WHITING	FEE/AR/TLE	3490	-	3490	5552
195	VILLAGE OF WHITING	FEE/AR	14690	-	14690	-

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
220	WISCONSIN PUBLIC SERVICE (GAS)	RELEASE OF RIGHTS
221	WISCONSIN PUBLIC SERVICE (ELECTRIC)	RELEASE OF RIGHTS

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN Portage COUNTY, WISCONSIN AT 8:46 AM ON 8/10/2016 AS DOCUMENT # 820689 AND FILED IN Book 4750
Cynthia Wilcox
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6414-00-25-4.12
AMENDMENT NO. 1
PAGE 1 OF 2

BASIS OF R/W	
INSTRUMENT	YEAR
ASSESSOR'S PLAT OF THE VILLAGE OF WHITING A/K/A ASSESSOR'S PLAT OF MCDILL	1949
RW PLAT NO. 6413-01-21	1981
RW PLAT NO. 6998-01-71	1997
RW PLAT NO. 6998-01-21	1993
TRANSPORTATION PROJECT PLAT NO. 6998-02-25	2010

RECOVERED MONUMENTS			
POINT	NORTHING	EASTING	DESCRIPTION
641	191273.991	171297.508	1" IRON PIPE
642	191342.191	171305.651	1" IRON PIPE
643	191338.969	171285.949	1" IRON PIPE
644	191407.060	171293.943	1" IRON PIPE
645	191408.597	171303.744	1" IRON PIPE
714	191473.371	171292.219	1" IRON PIPE
2560	191782.590	171265.220	CHISELED X
2565	191872.390	171271.030	1" IRON PIPE
2566	191845.800	171228.680	1" IRON PIPE

LOCATION SKETCH
NOT TO SCALE

GN

SCALE, FEET
0 50 100

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET. RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN PORTAGE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 765584.

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF

JASON L. CANCE — PRINTED NAME — SIGNATURE — 7-29-16 DATE

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

BRENT L. STELLA — PRINTED NAME — SIGNATURE — 8-3-2016 DATE

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

FILE NAME : P:\UZ\W\Witnc\112545\5-final-dsgn\51-drawings\40-TransHwy\040113 RP.dgn
PLOT DATE : 7/29/2016 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 6414-00-25 - 4.13 AMENDMENT NO. 1

ADDS PARCEL 195, AMENDS PARCEL 194 REMOVES UTILITY NO. 260 AND AMENDS UTILITY NO. 270 OF TRANSPORTATION PROJECT PLAT NO. 6414-00-25-4.13 RECORDED AS DOCUMENT NO. 766750

THAT PART OF LOT 1 OF CSM NO. 5796, LOCATED IN AND INCLUDING THE NW 1/4 OF THE NE 1/4 OF SECTION 9, T23N, R8E, VILLAGE OF WHITING, PORTAGE COUNTY, WISCONSIN.

RELOCATION ORDER BUS. 51 PORTAGE 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.

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BASIS OF R/W	
INSTRUMENT	YEAR
ASSESSOR'S PLAT OF THE VILLAGE OF WHITING A/K/A ASSESSOR'S PLAT OF MCDILL	1949
CSM NO. 5796	1994
CSM NO. 4178	1988
RW PLAT NO. 6413-01-21	1981
TRANSPORTATION PROJECT PLAT NO. 6998-02-25	2010

TRANSPORTATION PROJECT PLAT 6998-02-25-4.01 MATCH POINTS					
PROJECT NO. 6414-00-25 POINT #	PROJECT NO. 6998-02-25 POINT #	STATION	OUT	Y	X
4253	508	279+54.81	72.02'	192,961.275	169,886.097
5509	509	282+21.40	70.08'	193,119.848	169,671.787
5311	511	282+08.62	40.69'	193,201.855	169,747.351
5506	506	280+74.47	34.85'	193,118.124	169,852.327
5507	507	279+14.48	33.69'	193,022.956	169,980.946

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN PORTAGE COUNTY, WISCONSIN AT 8:36AM ON 8/16/2016 AS DOCUMENT # 820590 AND FILED IN Book #50
Cynthia Pethmeyer
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6414-00-25-4.13
AMENDMENT NO. 1

FND. HARRISON MON'T.
Y= 188163.540
X= 169702.610

QUARTER LINE = N00°50'45"W 5296.69'

MINNESOTA AVE.

284+00

STA 283+30.01
POST RD.
Y=193,243.514
X=169,627.611

FND. HARRISON MON'T.
Y= 193459.650
X= 169624.420

P.I. 282+40.32

280+00

P.I. 278+55.44
Y=192,961.305
X=170,018.818

VILLAGE OF WHITING

SIXTEENTH LINE

LOT 1 LOT 2 LOT 3 LOT 4 LOT 5 LOT 6

BLOCK 23 ASSESSOR'S PLAT TO THE VILLAGE OF WHITING

MCDILL POND

POST ROAD / BUSINESS 51

275+00

270+00

P.I. 270+05.61

NW-NE SEC 9

SECTION LINE = S88°35'10"E 2697.46'

VIVIAN LN.

RESTRICTED ACCESS
VOL. 250, PG. 79

RESTRICTED ACCESS
FROM SALE OF EXCESS LANDS FROM PREVIOUS DIVISION JOB # 4818
(AS NOTED ON DOT PROJECT 6998-02-25-4.01)

SUBJECT TO FLOWAGE RIGHTS
DOC# 440646

LOT 3 CSM 4178 14-233 DOC# 417515

LOT 2 CSM 5796 21-112 DOC# 490473

TLE-SLOPES 3660 SQ FT

194

195

MCDILL POND

UTILITY INTEREST TABLE			
UTILITY NUMBER	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
270	194	EASEMENT	DOC.# 146004

UTILITY INTERESTS REQUIRED		
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
270	CITY OF STEVENS POINT (SANITARY SEWER)	RELEASE OF RIGHTS

FROM	TO	DIRECTION	DISTANCE
101	1081	S00°50'45"E	216.16'
1081	28	S51°27'40"E	89.70'
28	1075	S53°55'07"E	140.32'
1075	1078	N36°04'53"E	36.10'
1078	1079	N36°04'53"E	9.40'
1079	722	S53°55'07"E	170.00'
722	1554	N72°03'34"E	30.28'
1554	4250	N39°38'54"E	7.82'
4250	656	S60°41'17"E	60.35'
656	655	S51°27'40"E	849.83'
655	1074	S50°22'14"W	86.85'
1074	4229	S38°32'20"W	342.83'
4229	4225	N19°40'24"W	413.46'
4225	3535	N51°25'24"W	387.29'
3535	4253	N37°05'11"W	195.61'
4253	1077	N53°30'05"W	145.20'
1077	1075	N36°04'53"E	70.97'

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS, IN PORTAGE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 765584.

LOCATION SKETCH
NOT TO SCALE
SHEET LOCATION

SCALE, FEET
0 50 100

FND. HARRISON MON'T.
Y= 193,393.090
X= 172,321.060

SCHEDULE OF LANDS & INTERESTS REQUIRED

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

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED			TLE S.F.
			NEW	EXISTING	TOTAL	
194	WELLINGTON HOMES OF WISCONSIN LLC	FEE/AR/TLE	2895	-	2895	2030
195	VILLAGE OF WHITING	FEE/AR	8755	-	8755	-

SEH
421 FRENETTE DRIVE
CHIPPEWA FALLS, WI 54729

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF

JASON L. CANCE — PRINTED NAME
SIGNATURE — 7-29-16 DATE

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

BRENT L. STELLA — PRINTED NAME
Brent L. Stella — SIGNATURE — 8-3-2016 DATE

WISCONSIN JASON L. CANCE S-2688 CHIPPEWA FALLS WI LAND SURVEYOR

FILE NAME : P:\UZ\W\Witnc\112545\5-final-dsgn\51-drawings\40-TransHwy\040114 RP.dgn
PLOT DATE : 7/29/2016 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A
APPRAISAL PLAT DATE :

WPS
(OH ELEC)
(UG GAS)

CHARTER COMMUNICATIONS
(OH ATTACHED TO WPS)

PLOVER SPRINGS DRIVE

BM 42

BUSINESS 51

699+00

174+00

175+00

176+00

177+00

178+00

179+00

180+00

181+00

STA 178+09.5 LT
CONSTRUCT 35' WIDE CE
TYPE 2

CONCRETE CURB & GUTTER
INTEGRAL 30-INCH TYPE A (TYP)

SLOPE INTERCEPT (TYP)

STA 179+60.3 LT
CONSTRUCT 12' WIDE PE
TYPE 2

CONCRETE CURB & GUTTER
30-INCH TYPE A (TYP)

+07.46
+37.5
+44.6
+72.3
36.0'
+41.9
+18.2
2.0'
12.0'
+60.3
6.0'
+61.5
24.0'
+66.2
12.0'
+18.4
+11.5
+25.3

CAUTION

AT&T (UG FO)

AT&T (UG FO
IN CONDUIT)

CONCRETE MEDIAN SLOPED
NOSE TYPE 1

BEGIN PROJECT
STA 178+07.46
MATCH EXISTING
SAWCUT REQ'D

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

SAWCUT 54.0' RT

VILLAGE OF PLOVER
(SAN SEWER)
(WATER MAIN)

CONCRETE CURB & GUTTER
INTEGRAL 30-INCH TYPE A (TYP)

STA 178+12.5 RT
CONSTRUCT 35' WIDE CE
TYPE 2

STA 180+42.1 RT
CONSTRUCT 35' WIDE CE
TYPE 1

TYPE B GRIT CHAMBER
M-49-06

5

5

BENCHMARK TABLE

NO	STATION	DESCRIPTION	ELEV
42	174+76.0, 61.2' LT	CHI "X" ON SE COR OF SIGNAL BOX AT SW COR POST RD & PLOVER SPRINGS	1077.49

1085
1080
1075
1070
1065

STA 178+07.46
EL 1075.07

VPC STA 179+40.00
VPC EL 1075.60

VPI STA 179+90.00
VPI EL 1075.80

VPT STA 180+40.00
VPT EL 1075.43

FINISHED R/L PROFILE

PHASE 1 EXISTING R/L PROFILE

PHASE 1 FINISHED R/L PROFILE

0.40%

-0.73%

PHASE 1

EXISTING R/L PROFILE

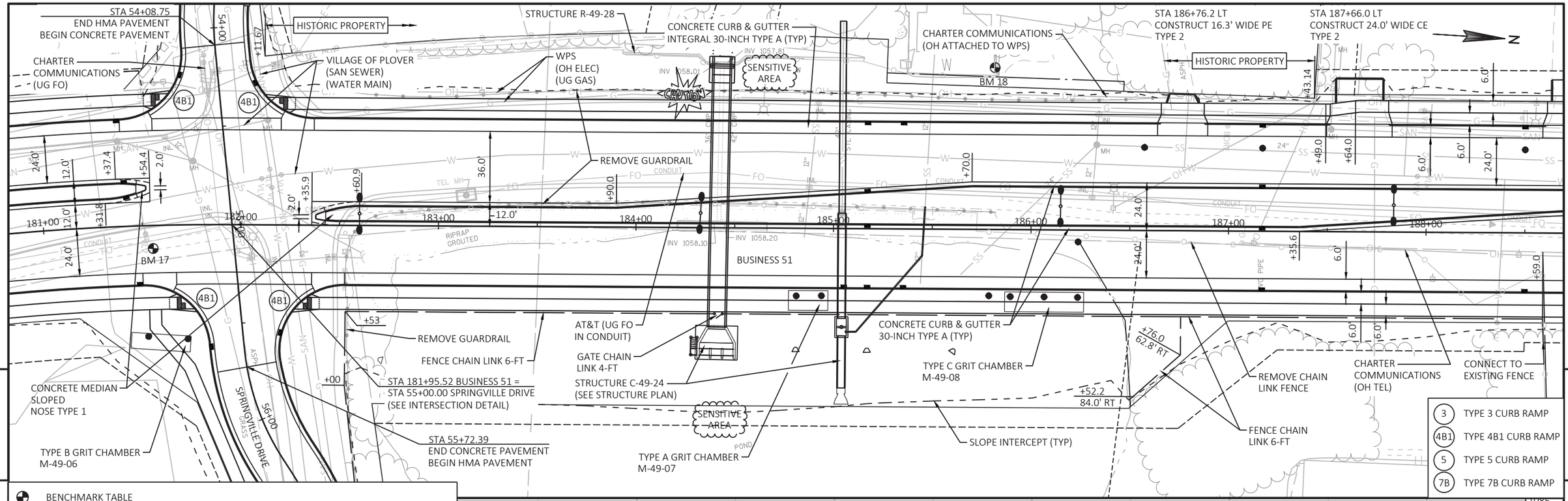
VCL = 100.00

K = 88.14

1076.94 1076.12 | 1076.92 1075.87 | 1077.13 1075.62 | 1076.19 1075.37 | 1075.85 1075.12 | 1075.54 1074.89 | 1075.19 1074.87 | 1074.93 1075.05 | 1075.08 1075.24 | 1075.32 1075.44 | 1075.44 1075.63 | 1075.50 1075.64 | 1075.20 1075.36 | 1074.83 1074.99

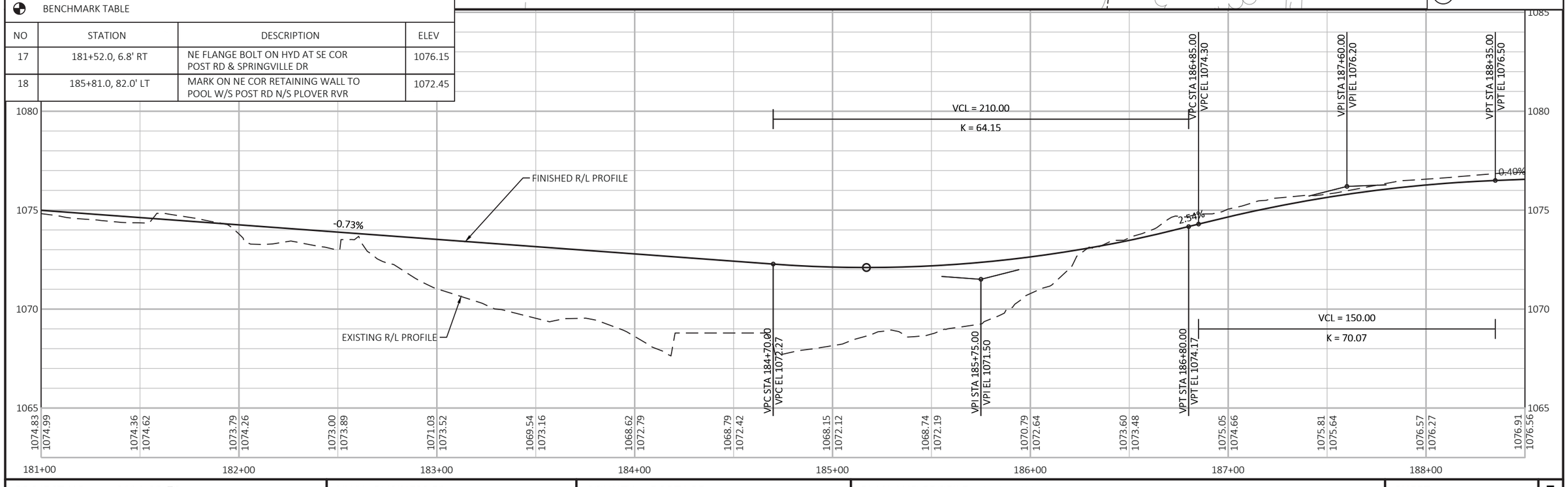
174+00 175+00 176+00 177+00 178+00 179+00 180+00 181+00

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN AND PROFILE: BUSINESS 51	SHEET 151	E



BENCHMARK TABLE

NO	STATION	DESCRIPTION	ELEV
17	181+52.0, 6.8' RT	NE FLANGE BOLT ON HYD AT SE COR POST RD & SPRINGVILLE DR	1076.15
18	185+81.0, 82.0' LT	MARK ON NE COR RETAINING WALL TO POOL W/S POST RD N/S PLOVER RVR	1072.45



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN AND PROFILE: BUSINESS 51	SHEET 152	E

STA 188+85.8 LT
CONSTRUCT 45' WIDE PE
TYPE 2

WPS
(OH ELEC)
(UG GAS)

CONCRETE MEDIAN SLOPED
NOSE TYPE 1

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

STA 190+75.9 LT
CONSTRUCT 35' WIDE CE
TYPE 1

SAWCUT 78.0' LT

CONCRETE CURB & GUTTER
INTEGRAL 30-INCH TYPE A (TYP)

VILLAGE OF PLOVER
(SAN SEWER)
(WATER MAIN)

SLOPE INTERCEPT (TYP)

SAWCUT 78.0' LT

STA 193+19.6 LT
CONSTRUCT 35' WIDE CE
TYPE 1

STA 194+86.6 LT
CONSTRUCT 35' WIDE CE
TYPE 1

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

CHARTER COMMUNICATIONS
(OH ATTACHED TO WPS)

BM 20

CONCRETE CURB & GUTTER
30-INCH TYPE A (TYP)

STA 190+70.19 BUSINESS 51 =
STA 60+00.00 RAINBOW DRIVE
(SEE INTERSECTION DETAIL)

RAINBOW DRIVE

CHARTER
COMMUNICATIONS
(OH TEL)

SAWCUT 54.0' RT

AT&T (UG FO
IN CONDUIT)

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

STA 60+67.18
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

STA 193+02.8 RT
CONSTRUCT 50' WIDE CE
TYPE 1

CONCRETE MEDIAN SLOPED
NOSE TYPE 1

SAWCUT 60.0' RT

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

STA 195+26.3 RT
CONSTRUCT 16' WIDE PE
TYPE 2

3	TYPE 3 CURB RAMP
4B1	TYPE 4B1 CURB RAMP
5	TYPE 5 CURB RAMP
7B	TYPE 7B CURB RAMP

BENCHMARK TABLE

NO	STATION	DESCRIPTION	ELEV
19	190+92.5, 31.0' RT	NW FLANGE BOLT ON HYD AT NE COR POST RD & RAINBOW DR	1079.47
20	195+38.0, 27.8' LT	NW FLANGE BOLT ON HYD AT W/S POST RD 1ST HYD S OF ROBERTS RD	1078.34

VPC STA 190+60.00
VPC EL 1077.39

VPI STA 191+00.00
VPI EL 1077.55

VPT STA 191+40.00
VPT EL 1077.39

VCL = 80.00
K = 97.62

FINISHED R/L PROFILE

EXISTING R/L PROFILE

0.40%

-0.42%

0.42%

VPC STA 194+35.00
VPC EL 1076.14

VPI STA 194+75.00
VPI EL 1075.97

VPT STA 195+15.00
VPT EL 1076.14

VCL = 80.00
K = 95.09

STA 196+00.00
EL 1076.50

1080
1075
1070
1065

1076.91 1076.56 | 1077.07 1076.76 | 1077.23 1076.96 | 1077.17 1077.16 | 1076.56 1077.35 | 1076.27 1077.47 | 1076.75 1077.34 | 1076.08 1077.13 | 1076.43 1076.92 | 1076.56 1076.71 | 1076.52 1076.50 | 1076.55 1076.29 | 1076.57 1076.09 | 1076.57 1076.09 | 1076.74 1076.29 | 1076.78 1076.50

189+00 190+00 191+00 192+00 193+00 194+00 195+00

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN AND PROFILE: BUSINESS 51	SHEET 153 E

STA 196+89.4 LT
CONSTRUCT 35' WIDE CE
TYPE 1

CHARTER COMMUNICATIONS
(OH ATTACHED TO WPS)

STA 198+16.4 LT
CONSTRUCT 12' WIDE PE
TYPE 2

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

STA 200+47.5 LT
CONSTRUCT 35' WIDE CE
TYPE 1

STA 201+94.5 LT
CONSTRUCT 35' WIDE CE
TYPE 2

CONCRETE CURB & GUTTER
INTEGRAL 30-INCH TYPE A (TYP)

SAWCUT 82.0' LT

STA 199+47.5 LT
CONSTRUCT 16' WIDE PE
TYPE 2

WPS
(OH ELEC)
(UG GAS)

I 20

BUSINESS 51

CONCRETE MEDIAN SLOPED
NOSE TYPE 1

AT&T (UG FO
IN CONDUIT)

CONCRETE CURB & GUTTER
30-INCH TYPE A (TYP)

AT&T (UG FO &
UG TEL)

CONCRETE MEDIAN SLOPED
NOSE TYPE 1

STA 62+77.74
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT

STA 200+47.58 BUSINESS 51 =
STA 62+00.00 ROBERTS ROAD
(SEE INTERSECTION DETAIL)

VILLAGE OF PLOVER
(SAN SEWER)
(WATER MAIN)

SLOPE INTERCEPT (TYP)

CHARTER COMMUNICATIONS
(OH TEL)

STA 196+37.3 RT
CONSTRUCT 16' WIDE PE
TYPE 2

STA 197+91.0 RT
CONSTRUCT 35' WIDE CE
TYPE 2

ROBERTS ROAD

BM 21

3	TYPE 3 CURB RAMP
4B1	TYPE 4B1 CURB RAMP
5	TYPE 5 CURB RAMP
7B	TYPE 7B CURB RAMP

BENCHMARK TABLE

NO	STATION	DESCRIPTION	ELEV
21	200+68.5, 51.0' RT	NW FLANGE BOLT ON HYD AT NE COR POST RD & ROBERTS RD	1080.16

VCL = 50.00
K = 80.20

VCL = 100.00
K = 108.51

VCL = 50.00
K = 80.00

VCL = 100.00
K = 108.58

STA 196+00.00
EL 1076.50

VPC STA 196+25.00
VPC EL 1076.60

VPI STA 196+50.00
VPI EL 1076.71

VPT STA 196+75.00
VPT EL 1076.97

VPC STA 197+05.00
VPC EL 1077.28

VPI STA 197+30.00
VPI EL 1077.55

VPT STA 197+55.00
VPT EL 1077.65

VPC STA 202+19.72
VPC EL 1079.61

VPI STA 202+69.72
VPI EL 1079.82

VPC STA 202+75.00
VPC EL 1079.33

0.42%
1.04%
0.42%
0.42%

FINISHED R/L PROFILE
(SB MEDIAN EDGE)

FINISHED R/L PROFILE
(NB MEDIAN EDGE)

EXISTING R/L PROFILE

| | | |

STA 69+03.00
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

CONCRETE MEDIAN SLOPED NOSE TYPE 1

REMOVING SEPTIC TANKS

STA 205+29.3 LT
CONSTRUCT 20' WIDE CE TYPE 1

WPS
(OH ELEC)
(UG GAS)

CONCRETE MEDIAN SLOPED NOSE TYPE 1

STA 206+40.0 LT
CONSTRUCT 35' WIDE CE TYPE 1

WORK BY OTHERS

CONCRETE MEDIAN SLOPED NOSE TYPE 1

MACARTHUR WAY

STA 74+01.68
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

CHARTER COMMUNICATIONS
(UG TV)

TYPE C GRIT CHAMBER
M-49-09

CONCRETE CURB & GUTTER
30-INCH TYPE A (TYP)

PATTON DRIVE

BUSINESS 51

STA 204+00.77 BUSINESS 51 =
STA 70+00.00 PATTON DRIVE
(SEE INTERSECTION DETAIL)

VILLAGE OF PLOVER
(SAN SEWER)
(WATER MAIN)

CONCRETE CURB & GUTTER
INTEGRAL 30-INCH TYPE A (TYP)

SLOPE INTERCEPT (TYP)

AT&T (UG FO
IN CONDUIT)

STA 208+43.4 RT
CONSTRUCT 20' WIDE PE TYPE 2

STA 208+22.92 BUSINESS 51 =
STA 75+00.00 MACARTHUR WAY
(SEE INTERSECTION DETAIL)

CHARTER COMMUNICATIONS
(OH ATTACHED TO WPS)

STA 203+98.6 RT
CONSTRUCT 35' WIDE CE TYPE 2

STA 205+39.4 RT
CONSTRUCT 35' WIDE PE TYPE 2

STA 207+02.7 RT
CONSTRUCT 20' WIDE PE TYPE 2

BM 23

STA 209+75.0 RT
CONSTRUCT 20' WIDE PE TYPE 2

STA 210+21.1 RT
CONSTRUCT 18' WIDE PE TYPE 2

3	TYPE 3 CURB RAMP
4B1	TYPE 4B1 CURB RAMP
5	TYPE 5 CURB RAMP
7B	TYPE 7B CURB RAMP

BENCHMARK TABLE

NO	STATION	DESCRIPTION	ELEV
23	208+61.0, 88.1' RT	WESTERLY EDGE OF CARPETED CONC PORCH HSE #1250 POST RD	1083.18

VCL = 100.00
K = 108.51
VPT STA 203+19.72
VPT EL 1079.57
VPT STA 203+75.00
VPT EL 1079.29
STA 204+00.00
EL 1079.17
VCL = 100.00
K = 95.97
-0.50%
-0.50%
0.54%
FINISHED R/L PROFILE
FINISHED R/L PROFILE
(SB MEDIAN EDGE)
FINISHED R/L PROFILE
(NB MEDIAN EDGE)
EXISTING R/L PROFILE
VPI STA 203+25.00
VPI EL 1079.54
VCL = 100.00
K = 108.58
VPC STA 207+25.00
VPC EL 1077.54
VPI STA 207+75.00
VPI EL 1077.29
VPT STA 208+25.00
VPT EL 1077.56

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN AND PROFILE: BUSINESS 51	SHEET 155	E

STA 210+84.0 LT
CONSTRUCT 34' WIDE CE
TYPE 2

WPS
(OH ELEC)
(UG GAS)

CHARTER COMMUNICATIONS
(OH ATTACHED TO WPS)

CONCRETE CURB & GUTTER
INTEGRAL 30-INCH TYPE A (TYP)

VILLAGE OF PLOVER
(SAN SEWER)
(WATER MAIN)

STA 214+08.5 LT
CONSTRUCT 45' WIDE CE
TYPE 2

CONCRETE CURB & GUTTER
30-INCH TYPE A (TYP)

SLOPE INTERCEPT (TYP)

CHARTER COMMUNICATIONS
(UG FO)

STA 210+21.1 RT
CONSTRUCT 18' WIDE PE
TYPE 2

STA 211+79.5 RT
CONSTRUCT 35' WIDE CE
TYPE 2

CONCRETE MEDIAN SLOPED
NOSE TYPE 1

BUSINESS 51

HICKORY DRIVE

BM 24

END PROJECT
STA 214+37.79

MATCH EXISTING
SAWCUT REQ'D

NOTE:
DUE TO PHASE 2 & 3 BEING CURRENTLY CONSTRUCTED TOPO HAS NOT BEEN UPDATED. TOPO AS SHOWN IS DESIGN AS LET FOR PHASE 2 AND 3.

BENCHMARK TABLE

NO	STATION	DESCRIPTION	ELEV
24	214+22.5, 44.2' RT	NW FLANGE BOLT ON HYD AT NE COR POST RD & HICKORY DR	1081.20

VCL = 80.00
K = 82.02

VCL = 80.00
K = 78.42

VPC STA 212+10.00
VPC EL 1079.64

VPI STA 212+50.00
VPI EL 1079.86

VPT STA 212+90.00
VPT EL 1079.67

STA 216+00.00
EL 1079.50

VPC STA 214+25.00
VPC EL 1079.02

VPI STA 214+65.00
VPI EL 1078.83

VPT STA 215+05.00
VPT EL 1079.03

EXISTING R/L PROFILE

FINISHED R/L PROFILE

PHASE 2 & 3 PROPOSED
R/L PROFILE

0.54%

-0.48%

0.50%

1085
1080
1075
1070

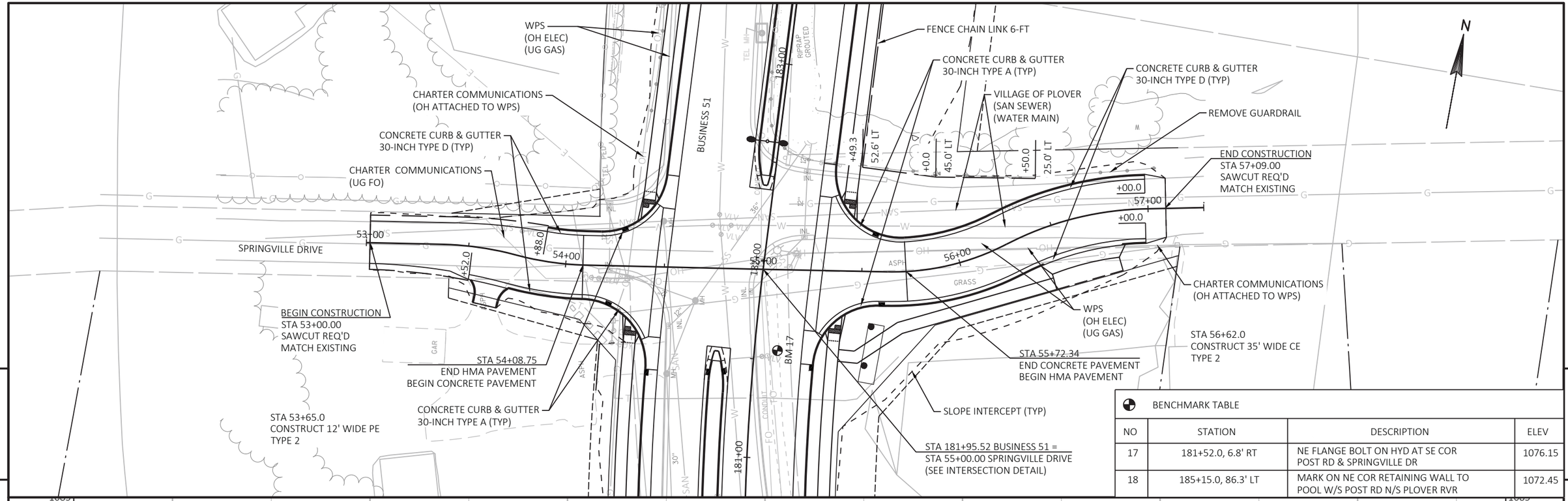
1078.58 1078.78 | 1078.89 1079.05 | 1079.47 1079.32 | 1079.50 1079.59 | 1079.51 1079.76 | 1079.78 1079.62 | 1079.69 1079.38 | 1079.50 1079.14 | 1079.51 1078.94 | 1079.58 1079.01 | 1079.78 1079.25 | 1079.79 1079.50

211+00 212+00 213+00 214+00 215+00 216+00 217+00

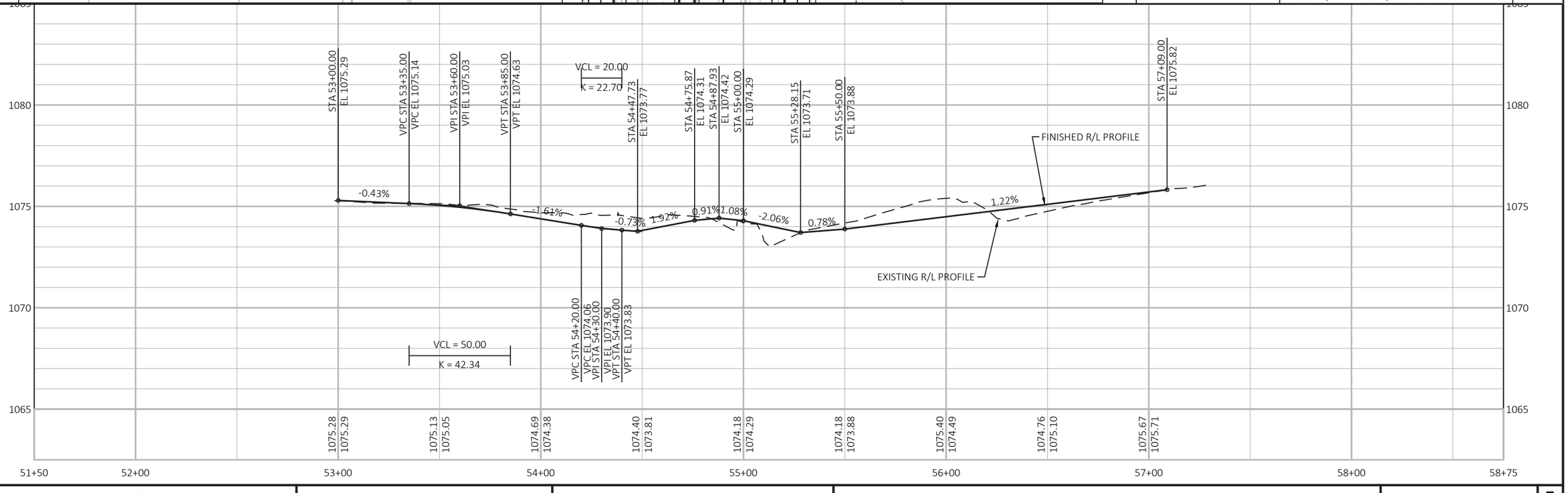
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN AND PROFILE: BUSINESS 51	SHEET 156	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\050101 PP.DWG
LAYOUT NAME - PP06

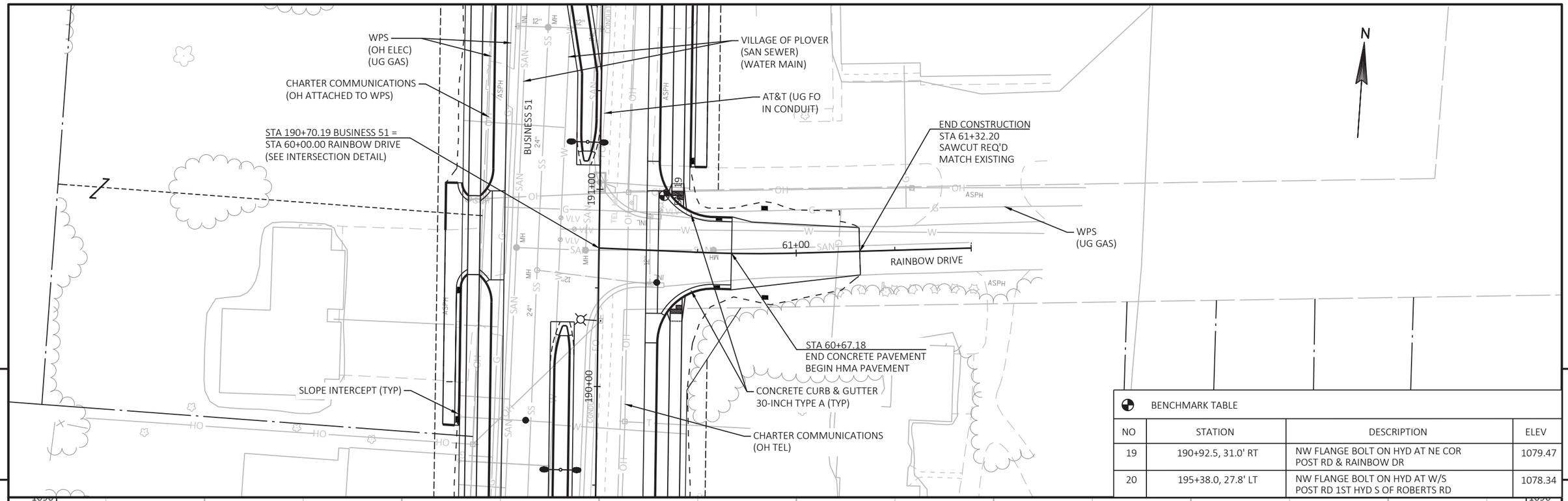
PLOT DATE : 10/23/2020 7:43 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:50 FT



BENCHMARK TABLE			
NO	STATION	DESCRIPTION	ELEV
17	181+52.0, 6.8' RT	NE FLANGE BOLT ON HYD AT SE COR POST RD & SPRINGVILLE DR	1076.15
18	185+15.0, 86.3' LT	MARK ON NE COR RETAINING WALL TO POOL W/S POST RD N/S PLOVER RVR	1072.45

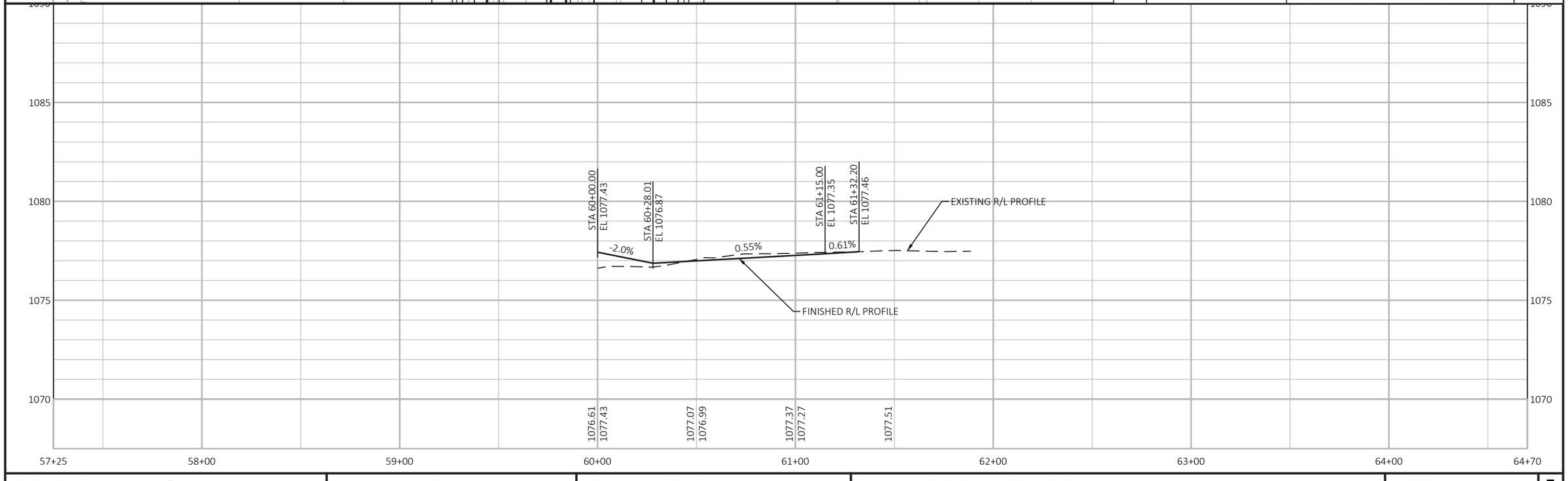


PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN AND PROFILE: SPRINGVILLE DRIVE	SHEET 157	E

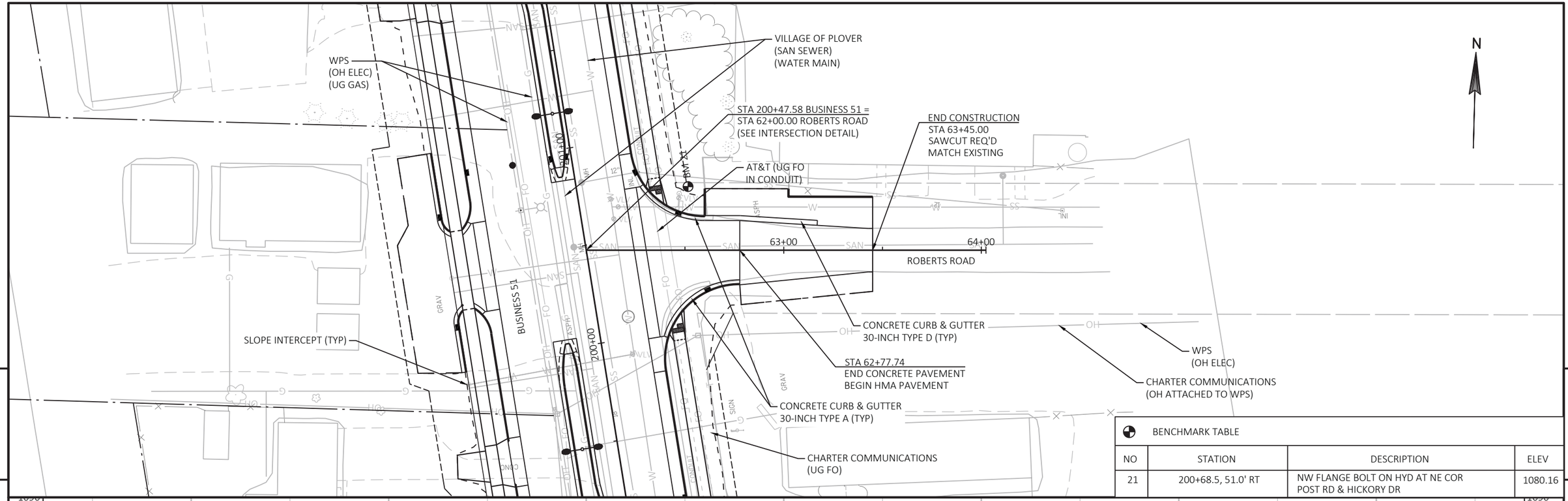


BENCHMARK TABLE

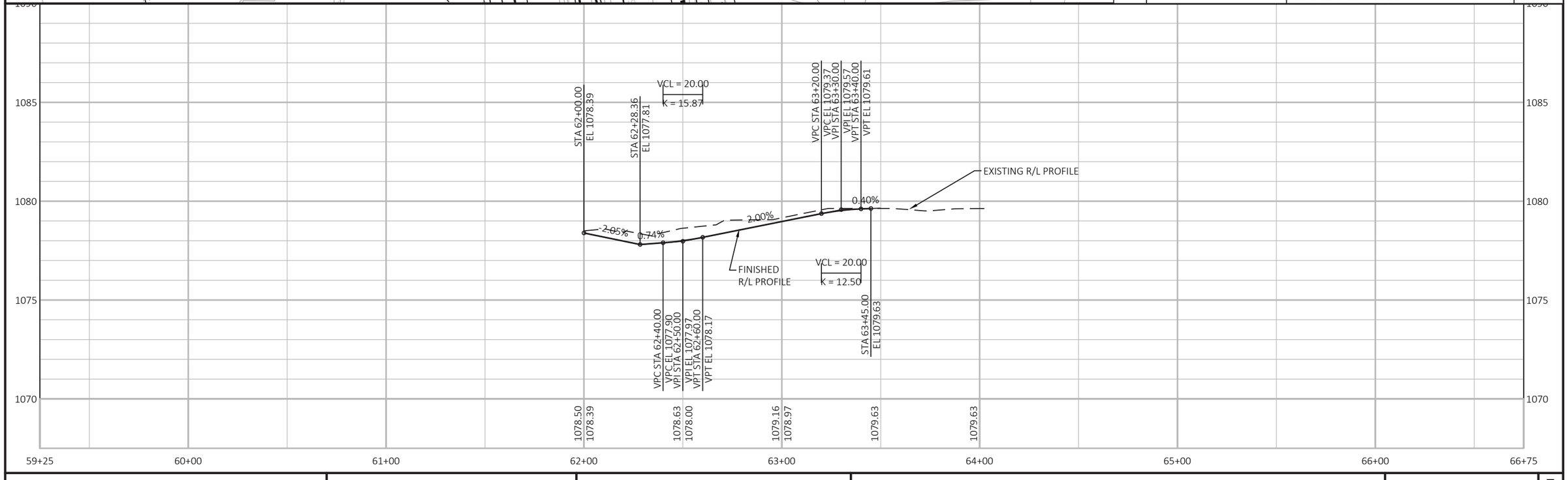
NO	STATION	DESCRIPTION	ELEV
19	190+92.5, 31.0' RT	NW FLANGE BOLT ON HYD AT NE COR POST RD & RAINBOW DR	1079.47
20	195+38.0, 27.8' LT	NW FLANGE BOLT ON HYD AT W/S POST RD 1ST HYD S OF ROBERTS RD	1078.34



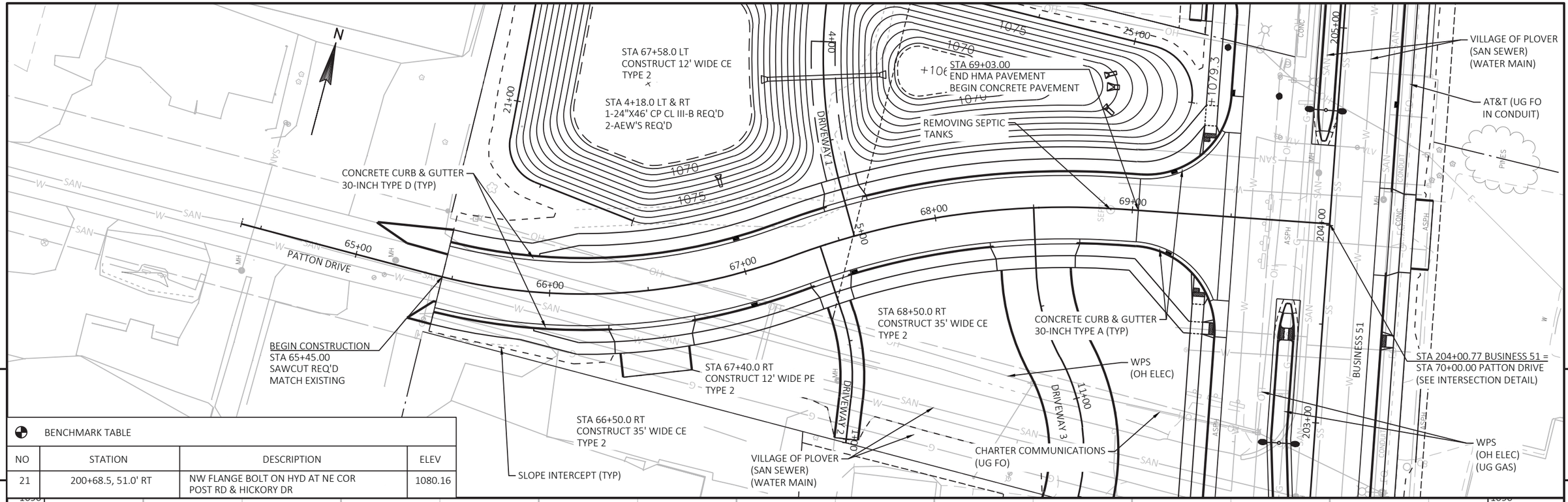
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN AND PROFILE: RAINBOW DRIVE	SHEET 158	E



BENCHMARK TABLE			
NO	STATION	DESCRIPTION	ELEV
21	200+68.5, 51.0' RT	NW FLANGE BOLT ON HYD AT NE COR POST RD & HICKORY DR	1080.16



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN AND PROFILE: ROBERTS ROAD	SHEET 159 E



BENCHMARK TABLE			
NO	STATION	DESCRIPTION	ELEV
21	200+68.5, 51.0' RT	NW FLANGE BOLT ON HYD AT NE COR POST RD & HICKORY DR	1080.16

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN AND PROFILE: PATTON DRIVE	SHEET 160 E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\050101 PP.DWG
LAYOUT NAME - PP10

PLOT DATE : 11/30/2020 9:22 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:50 FT

N

*PENDING FINAL DESIGN

WPS
(OH ELEC)
(UG GAS)

STA 73+65.8 LT
CONSTRUCT 24' WIDE PE
TYPE 2

CONCRETE CURB & GUTTER
30-INCH TYPE D (TYP)

CONCRETE CURB & GUTTER
30-INCH TYPE A (TYP)

WPS
(OH ELEC)
(UG GAS)

CHARTER COMMUNICATIONS
(UG TV)

MACARTHUR WAY

73+00

74+00

+25.0

BEGIN CONSTRUCTION
STA 72+90.58
MATCH EXISTING
SAWCUT REQ'D

STA 74+02.31
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT

WORK BY OTHERS

* STA 73+65.8 RT
CONSTRUCT 30' WIDE CE
TYPE 1

VILLAGE OF PLOVER
(SAN SEWER)
(WATER MAIN)

AT&T (UG FO
IN CONDUIT)

BM 23

CAUTION

STA 208+22.92 BUSINESS 51 =
STA 75+00.00 MACARTHUR WAY
(SEE INTERSECTION DETAIL)

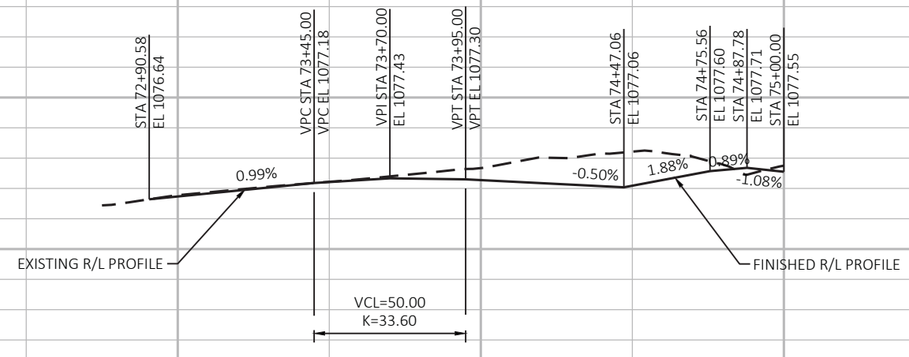
SLOPE INTERCEPT (TYP)

BUSINESS 51

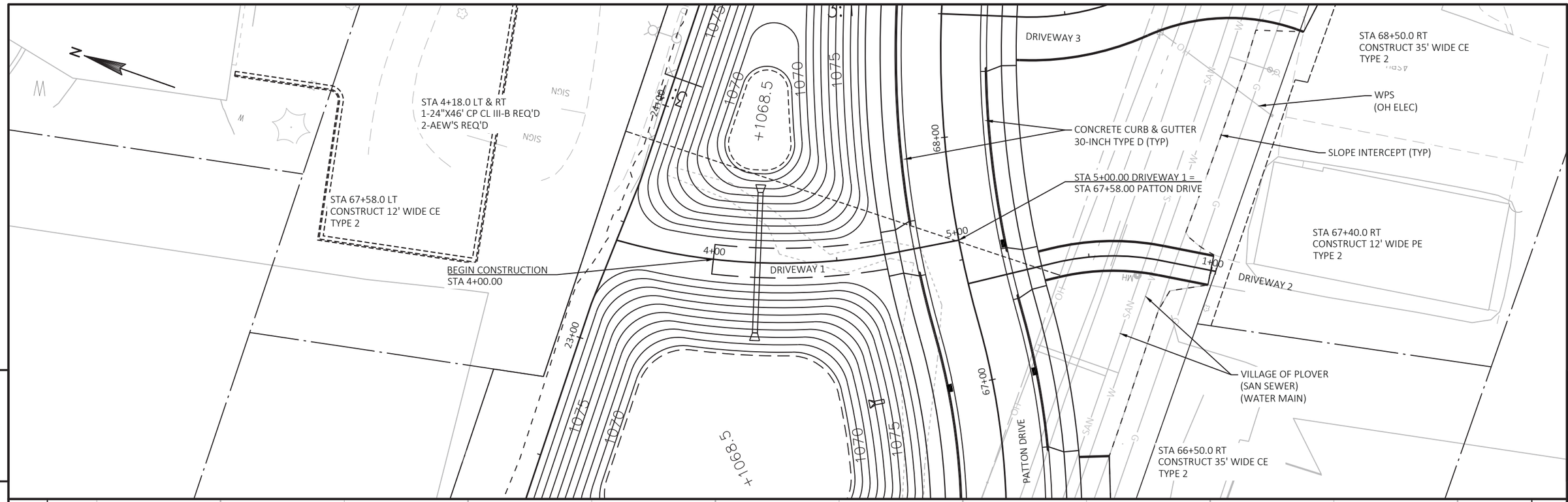
208+00

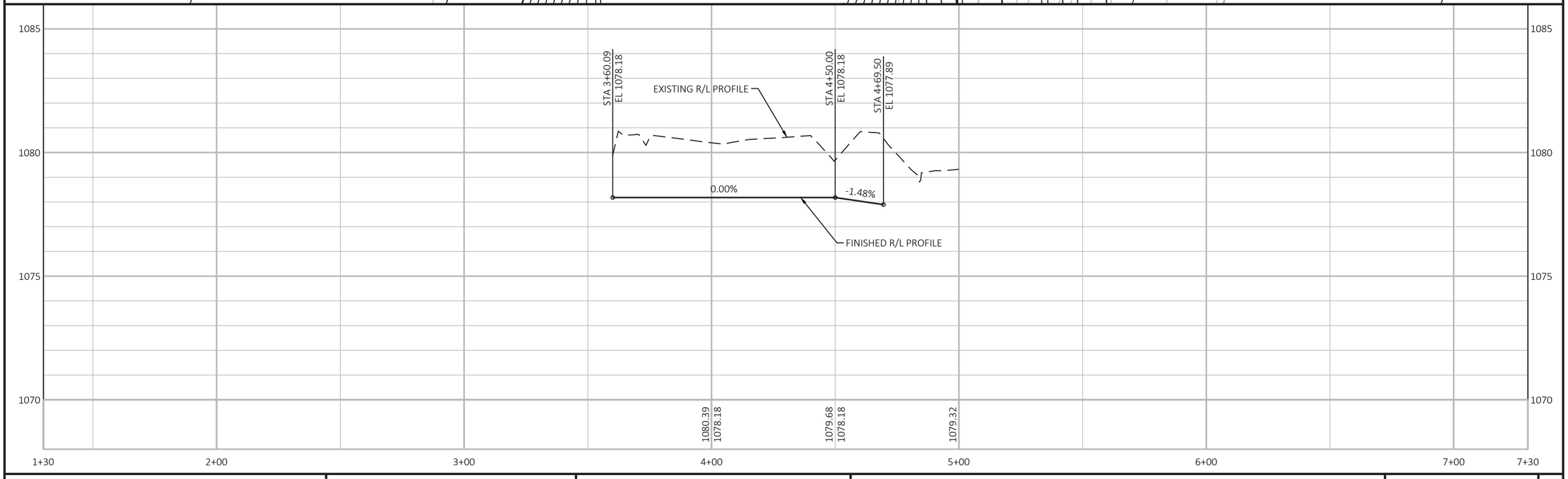
207+00

BENCHMARK TABLE			
NO	STATION	DESCRIPTION	ELEV
23	208+61.0, 88.1' RT	WESTERLY EDGE OF CARPETED CONC PORCH HSE #1250 POST RD	1083.18

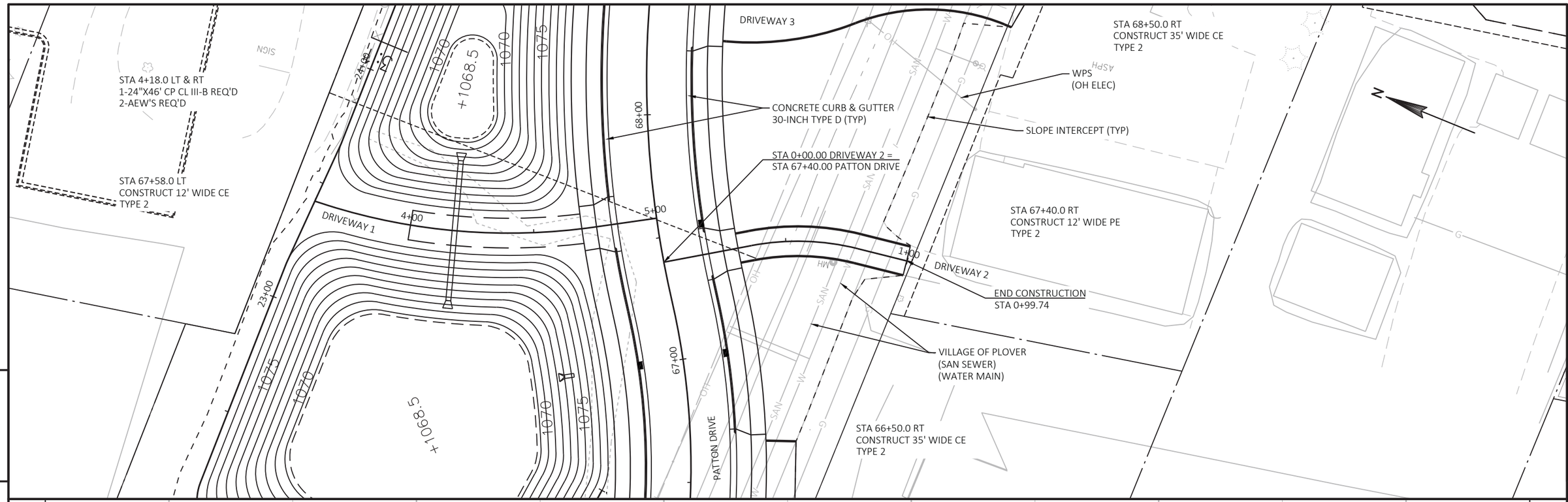


PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN AND PROFILE: MACARTHUR WAY	SHEET 161 E





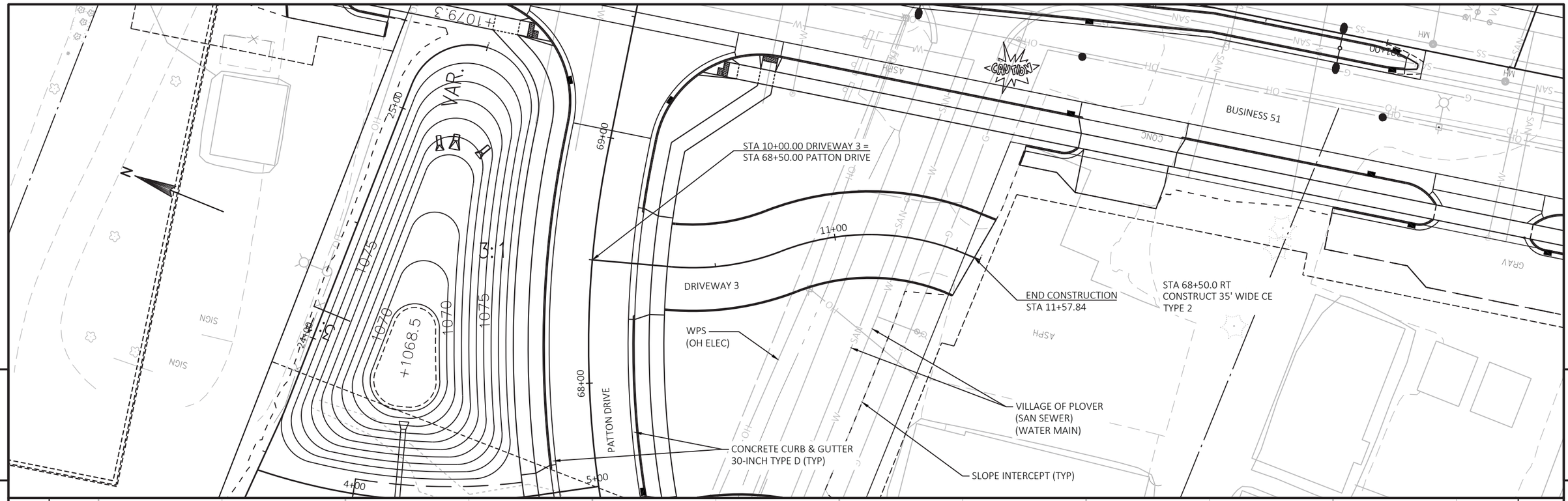
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN AND PROFILE: DRIVEWAY 1	SHEET 162	E

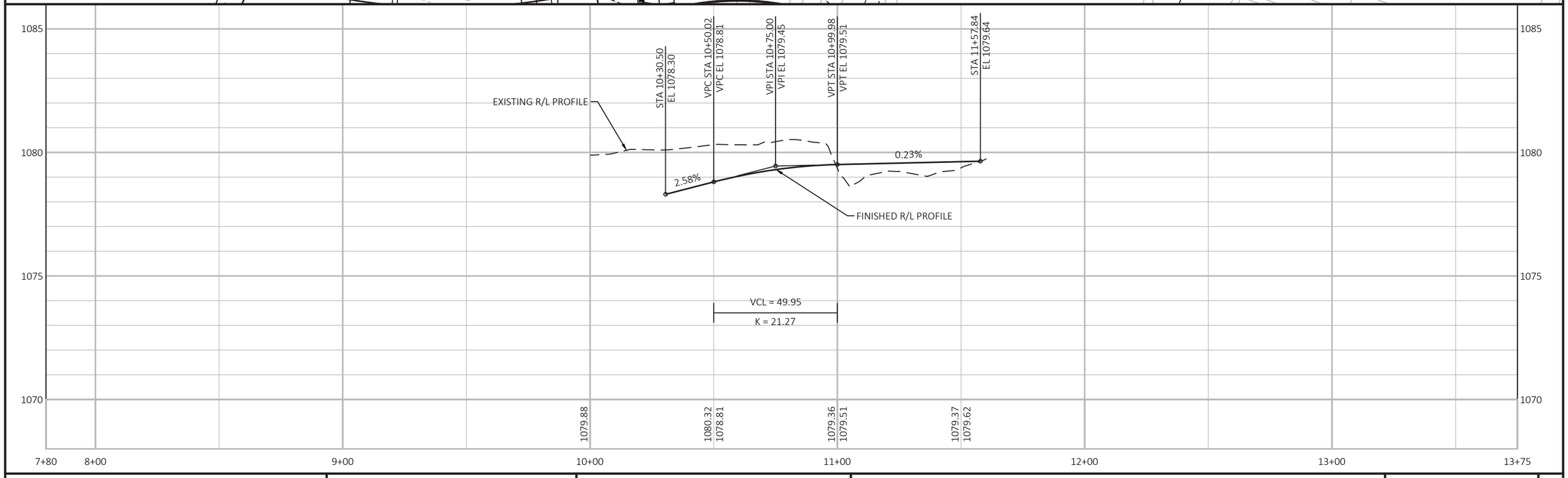


PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN AND PROFILE: DRIVEWAY 2	SHEET 163 E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\050101 PP.DWG
LAYOUT NAME - PP13

PLOT DATE : 10/23/2020 7:48 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:40 FT





PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	PLAN AND PROFILE: DRIVEWAY 3	SHEET 164 E

Standard Detail Drawing List

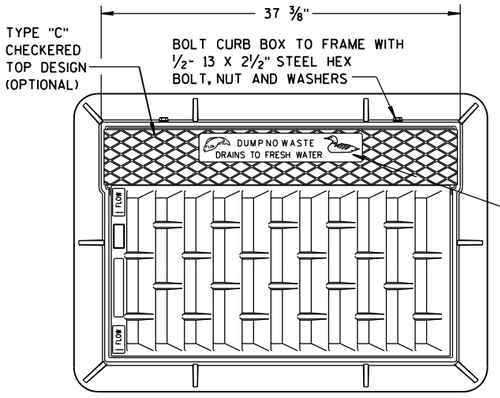
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-21A	CONCRETE CURB & GUTTER
08D01-21B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
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
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B16-01	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09E01-15E	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 6 (35 FEET)
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C19-02	HMA LONGITUDINAL JOINTS
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15E	PAVEMENT MARKING FOR BIKE LANES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C09-11A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-04	MEDIAN ISLAND MARKING
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-06B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C27-03B	PAVEMENT MARKING (ISLANDS)
15C29-07A	BICYCLE LANE MARKING
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D06-04	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D12-09A	TRAFFIC CONTROL, LANE CLOSURE

6

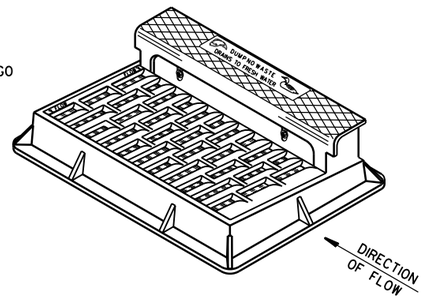
Standard Detail Drawing List

15D20-05C	TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D30-06A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-06B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-06C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D40-01	TRAFFIC CONTROL, LANE SHIFT, MULTILANE DIVIDED OR ONE WAY ROAD
15D46-01	TRAFFIC CONTROL, ONE - WAY SIGNING
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

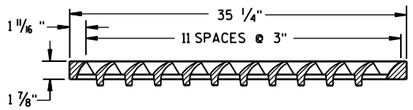
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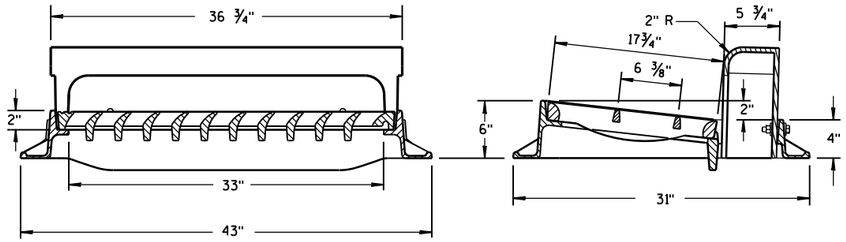


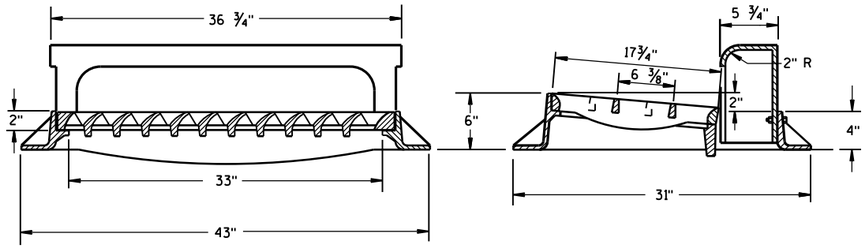
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

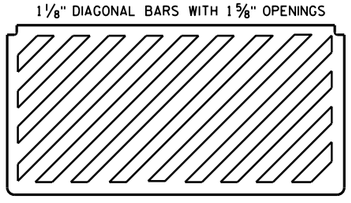






TYPE "H"

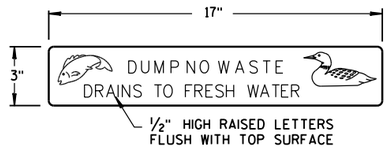
NOTE: EITHER CASTING IS ACCEPTABLE



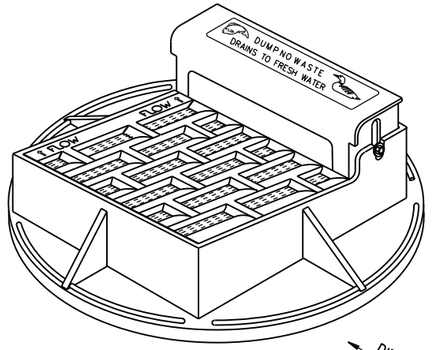
SPECIAL GRATE FOR TYPE "H" COVER

(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"

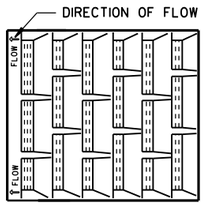
NOTE:
GRATE IS REVERSIBLE.

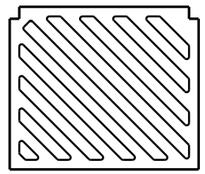
GENERAL NOTES

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.

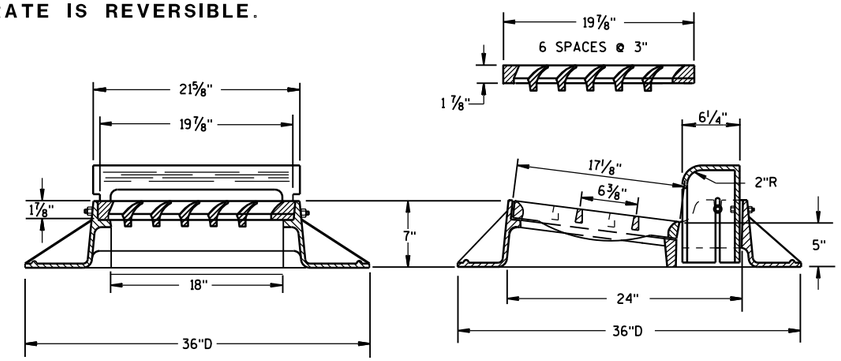




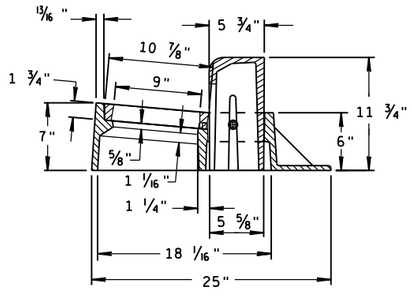
SPECIAL GRATE FOR TYPE "A" COVER

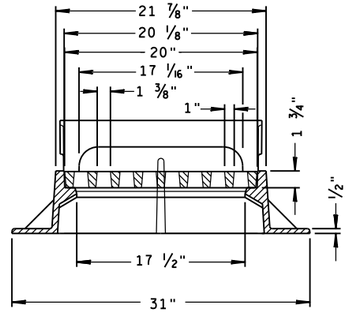
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

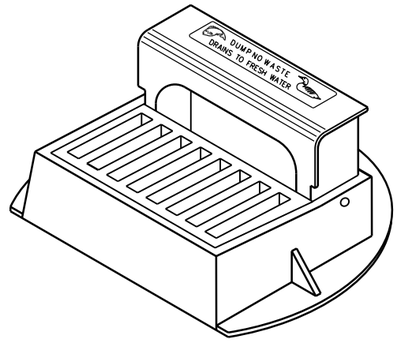


TYPE "A"





TYPE "Z"



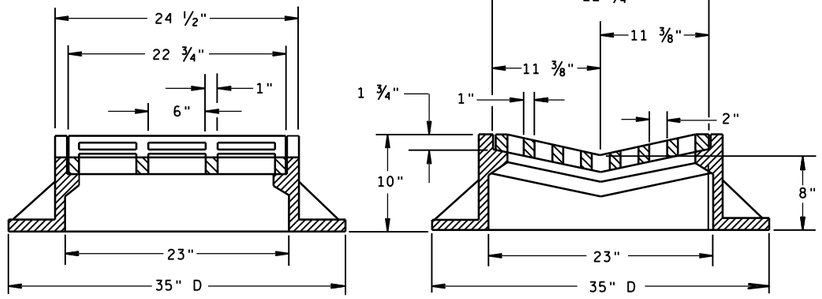
INLET COVERS
TYPE A, H, A-S, H-S & Z

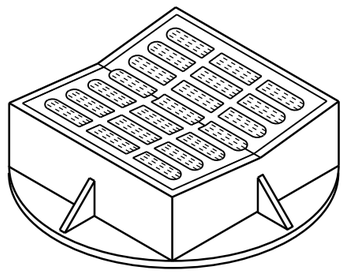
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

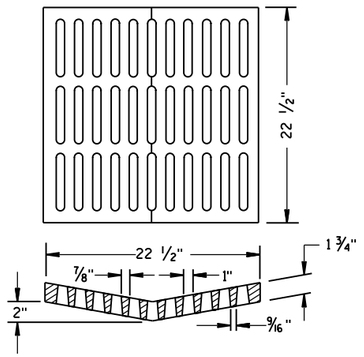
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S.D.D. 8 A 5-19a



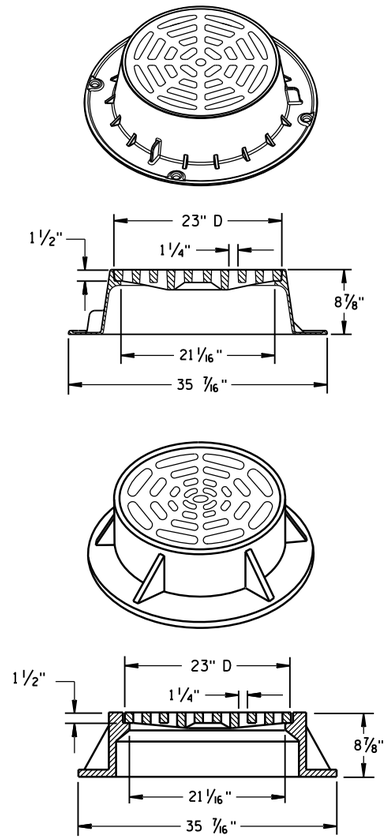


TYPE "B"



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"

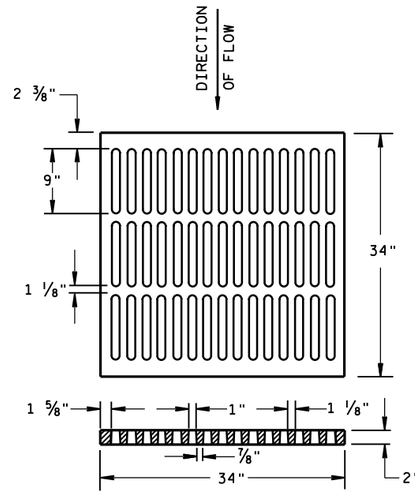
NOTE: EITHER CASTING IS ACCEPTABLE

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.

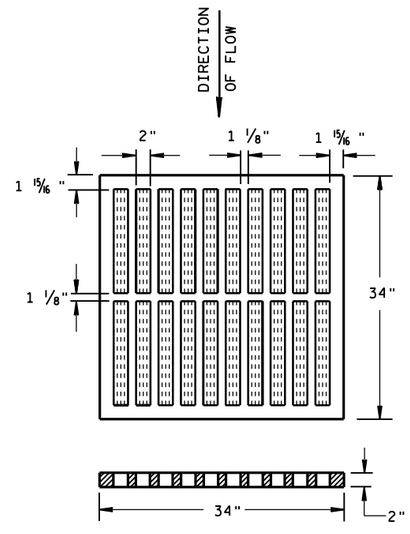
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



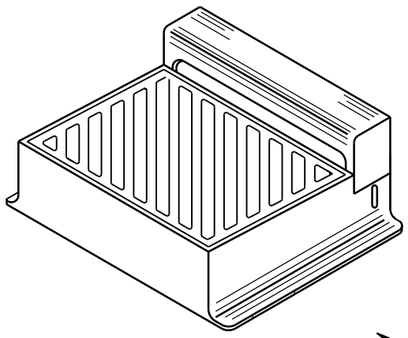
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

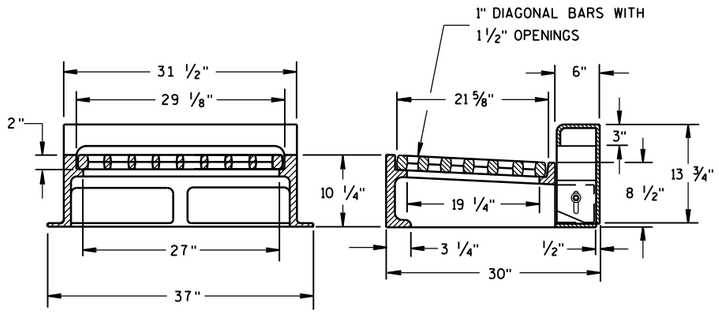


TYPE "MS"

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"

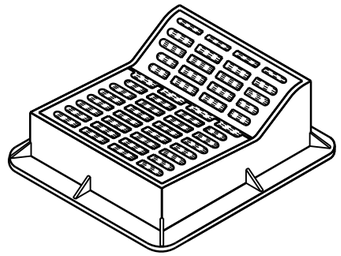
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

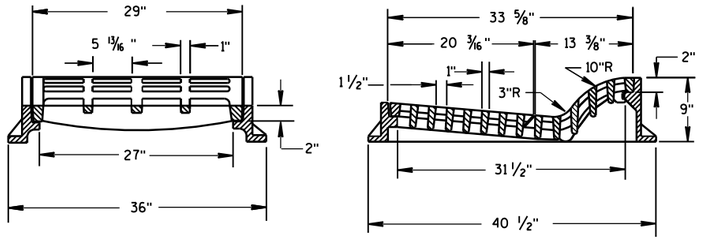
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

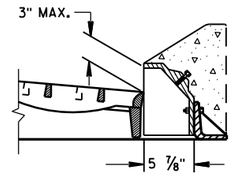
S.D.D. 8 A 5-19b





TYPE "F"

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



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

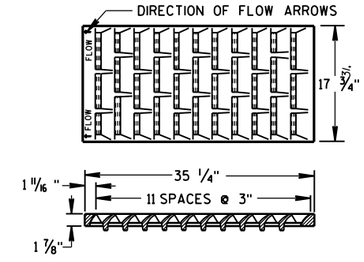
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

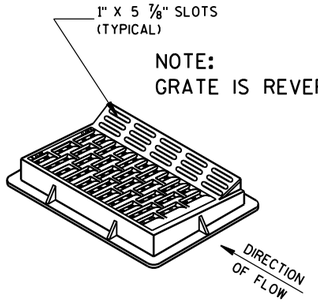
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

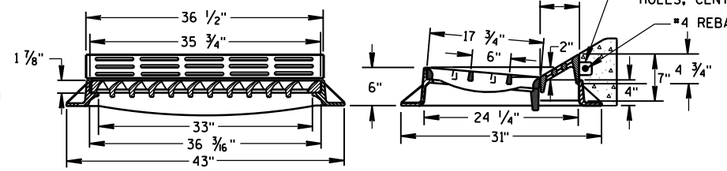
GENERAL NOTES

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



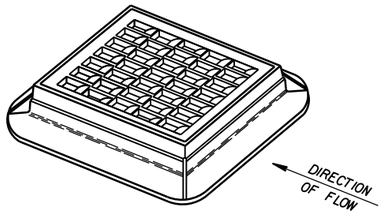


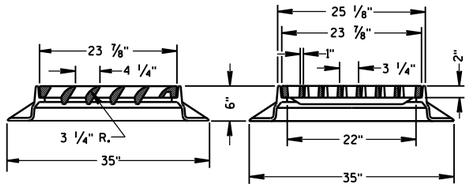


TYPE "HM"

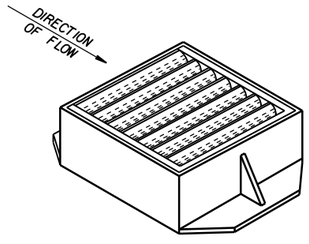
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

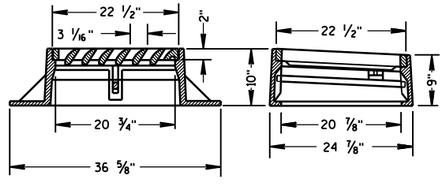
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



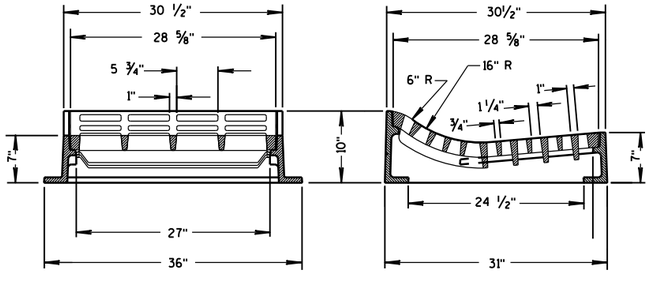


TYPE "S"



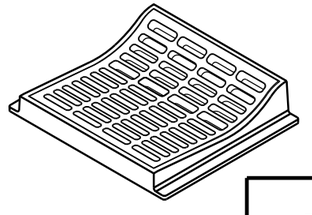


TYPE "V"



TYPE "T"

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



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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

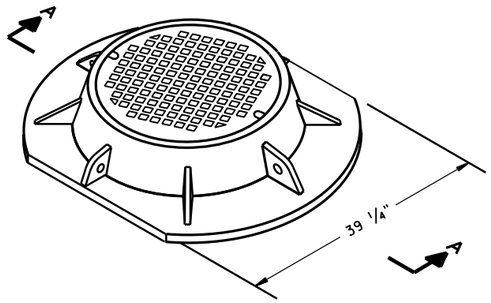
APPROVED
11/27/2013
DATE

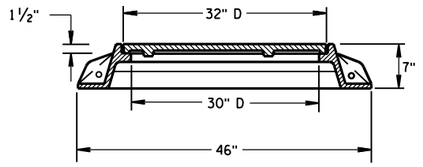
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

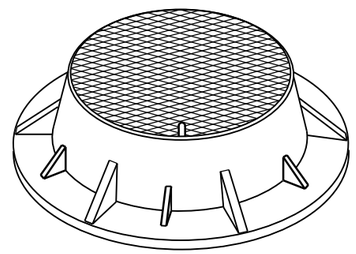
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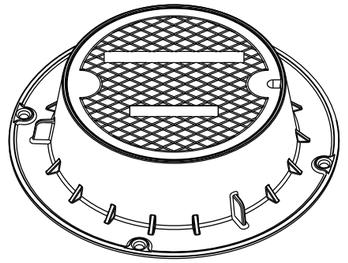
S.D.D. 8 A 5-19c

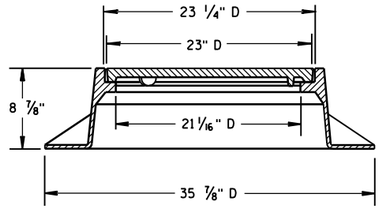


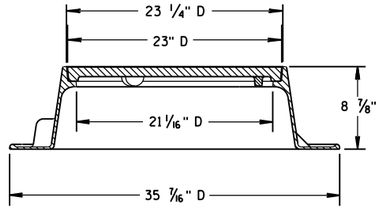


SECTION A-A
TYPE "K"









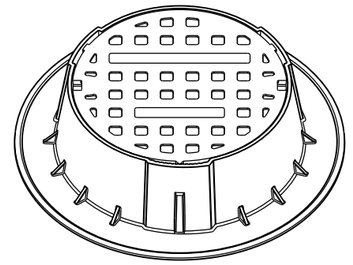
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

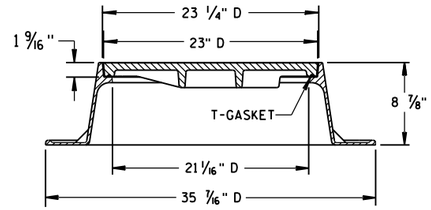
GENERAL NOTES

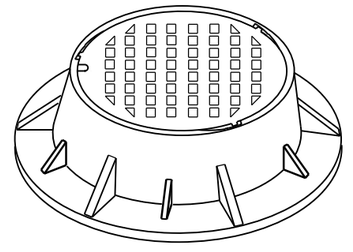
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

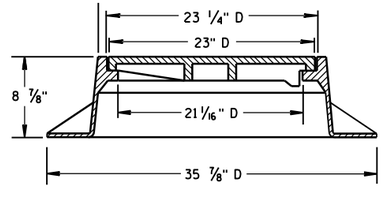
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

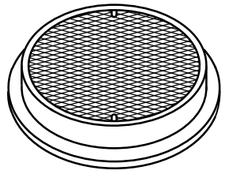


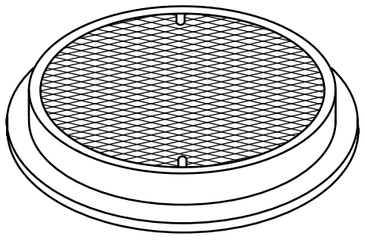


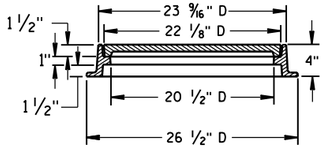




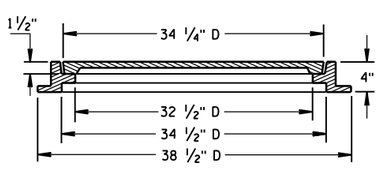
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



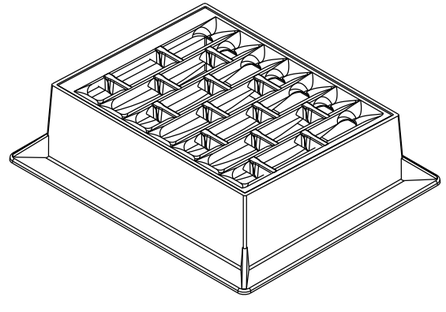


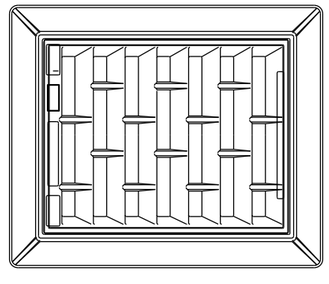


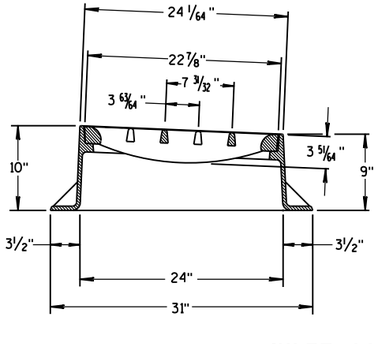
TYPE "L"

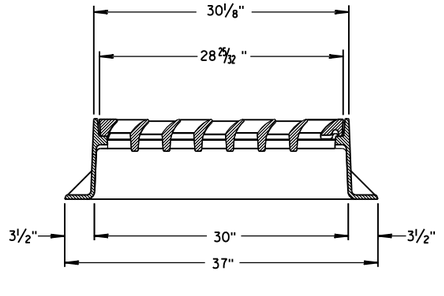


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

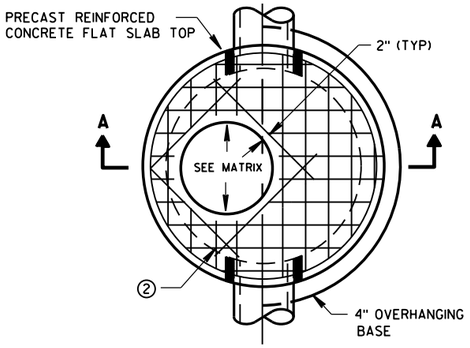
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

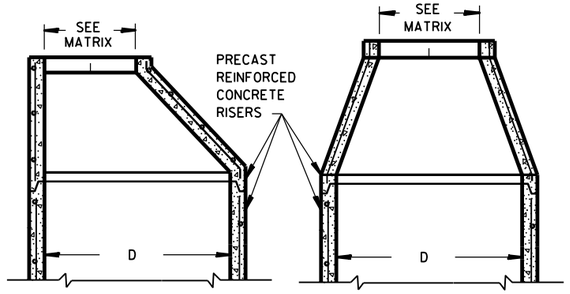
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

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

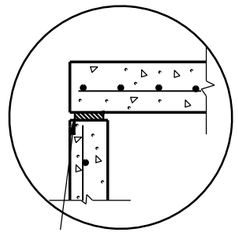


PLAN VIEW CIRCULAR OPENING

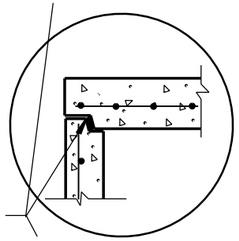


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

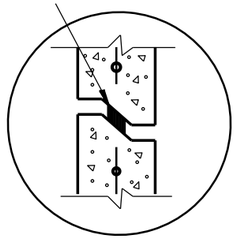


TOP WITH PLAIN END JOINT



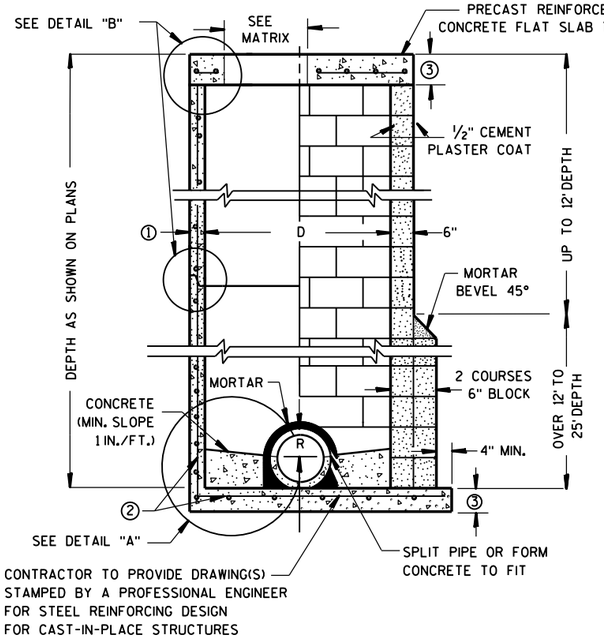
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



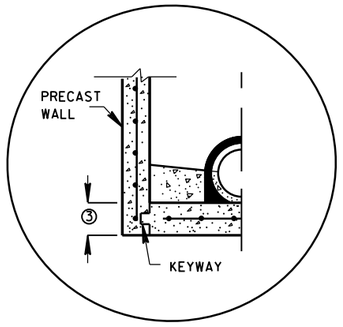
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

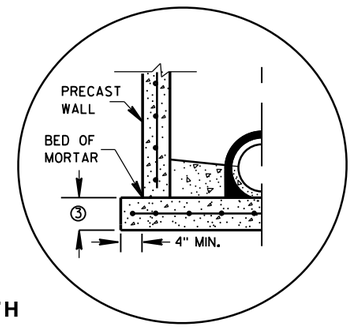


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

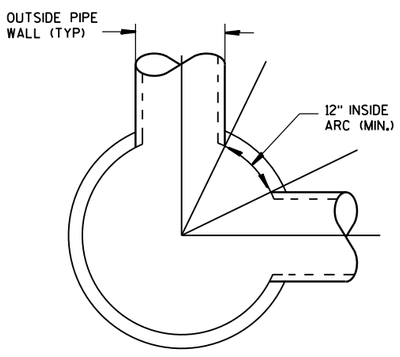


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

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

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

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

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

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

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

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

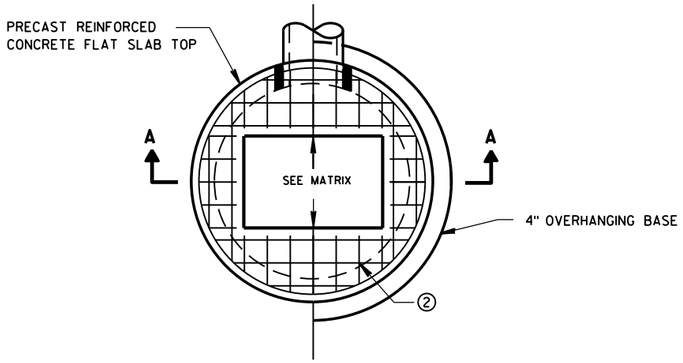
APPROVED

Sept., 2016
DATE

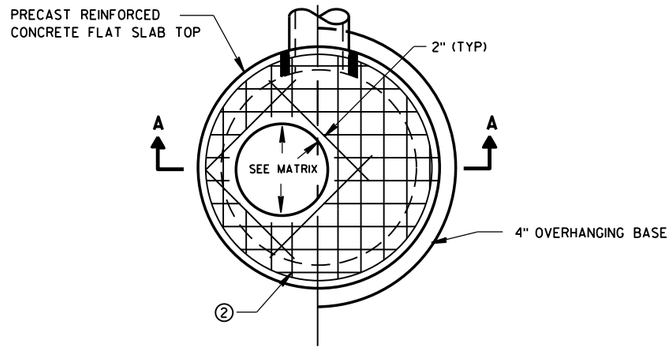
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERV

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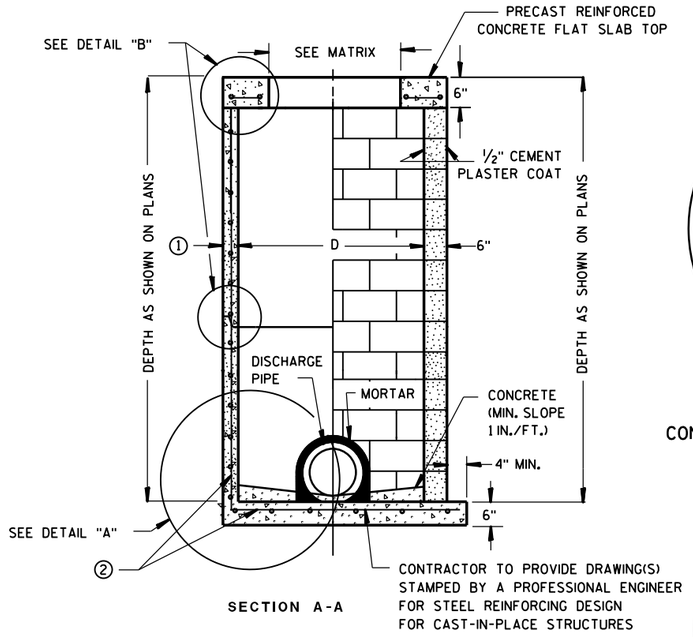
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S.D.D. 8 B 9-2



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

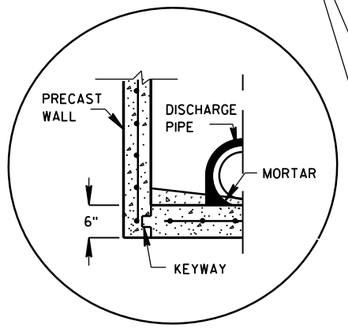


SECTION A-A

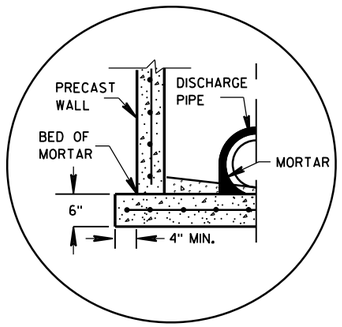
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

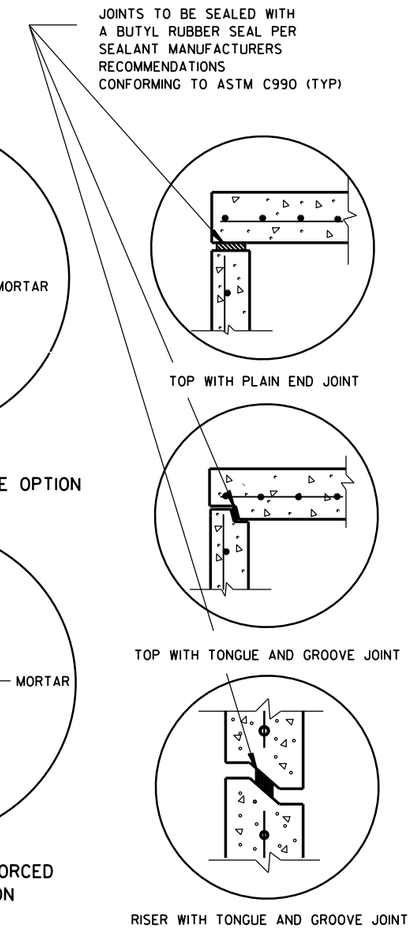


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

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

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

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

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

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF 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.

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.

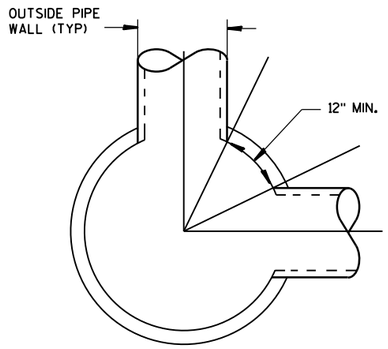
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

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

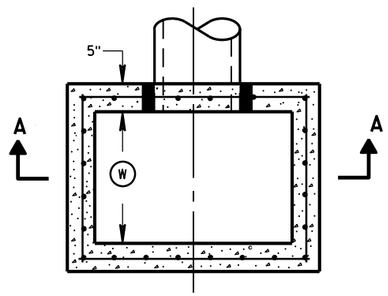
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — /S/ Rodney Taylor
DATE — ROADWAY STANDARDS | UNIT SUPERVI ENT
FHWA

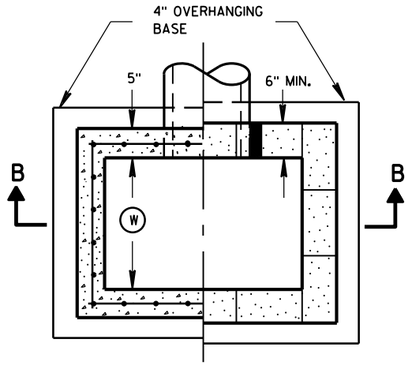
INLETS 3-FT AND 4-FT DIAMETER

6

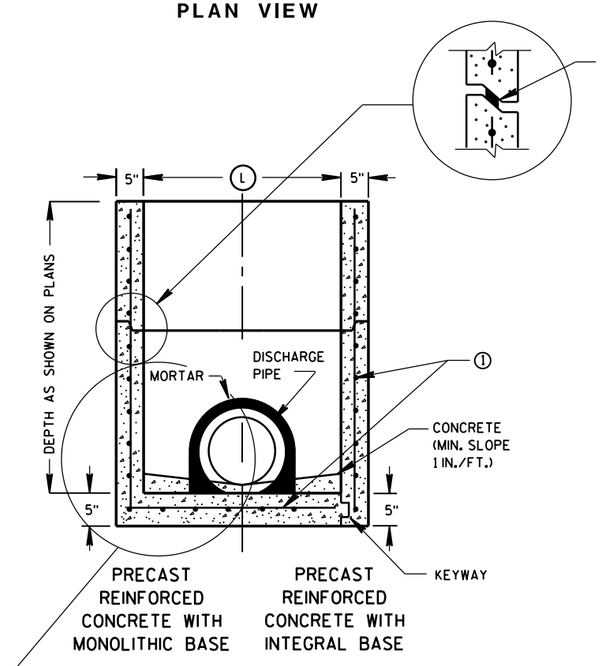
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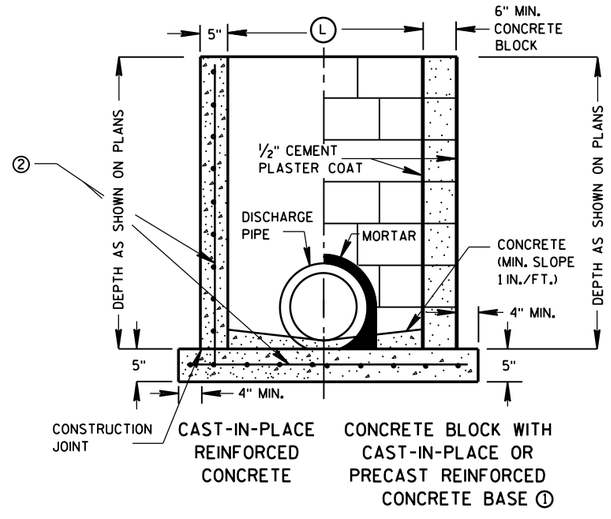
PLAN VIEW



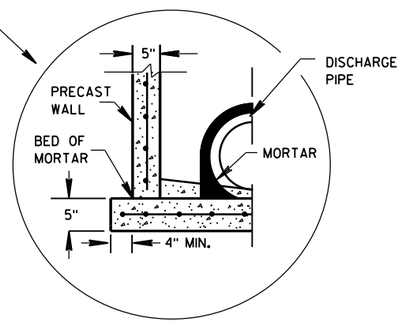
PLAN VIEW



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.

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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.

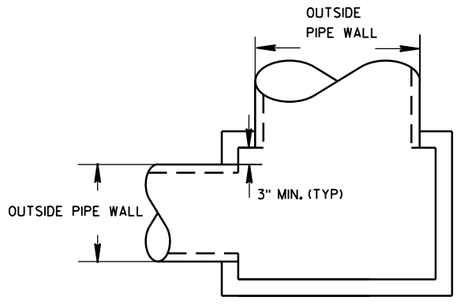
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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

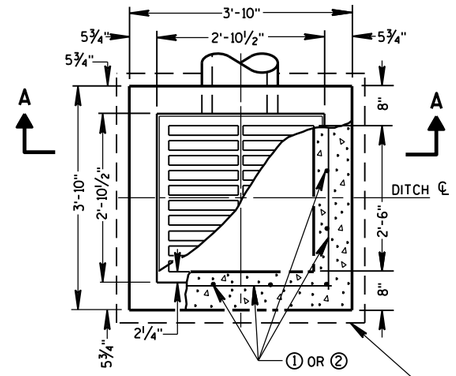
APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT UNIT SUPERVIS
FHWA

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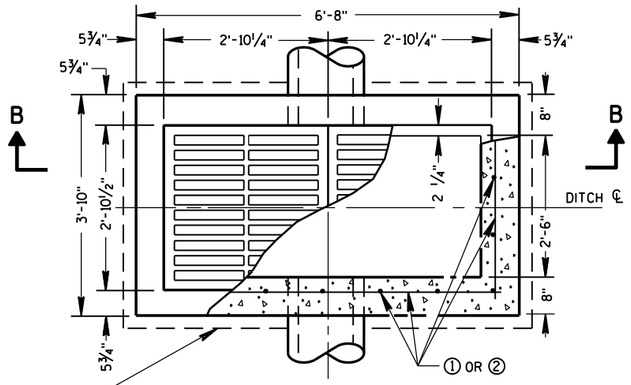
S.D.D. 8 C 7-2

6

S.D.D. 8 C 7-2

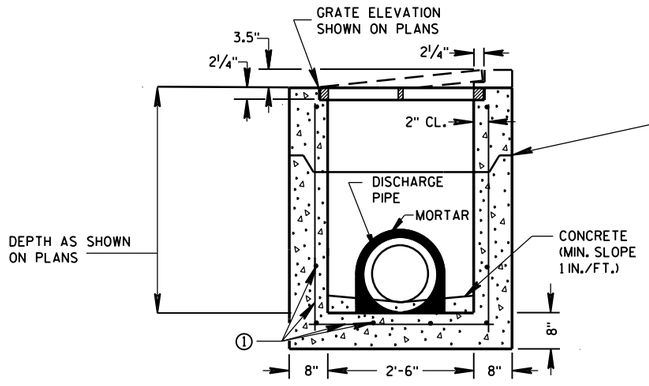


PLAN VIEW

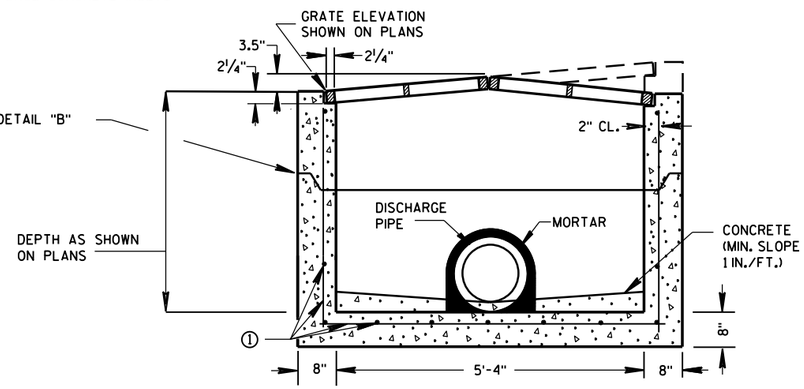


PLAN VIEW

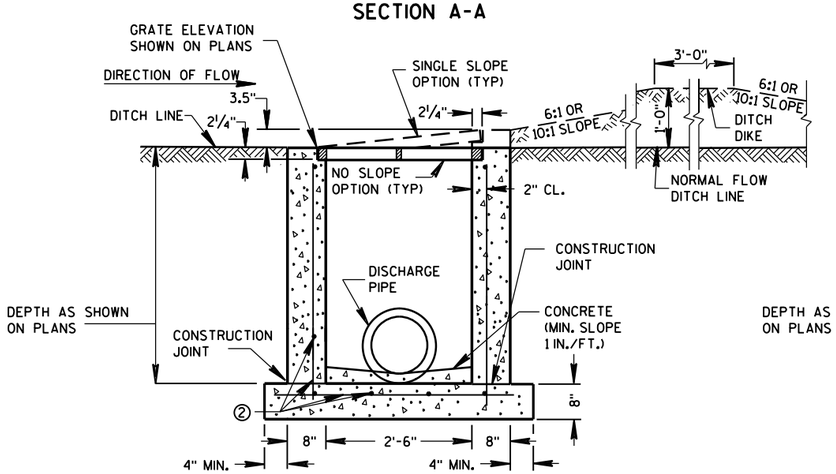
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



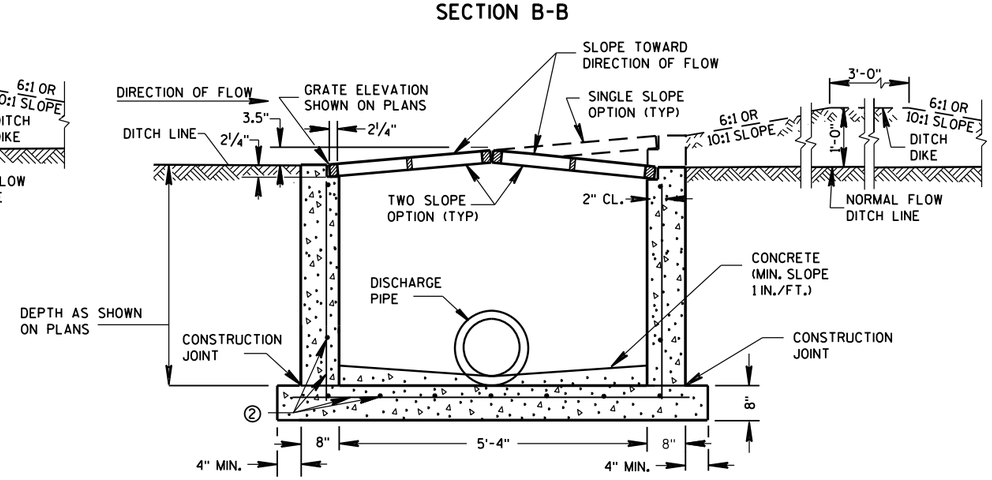
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



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.

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

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

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

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

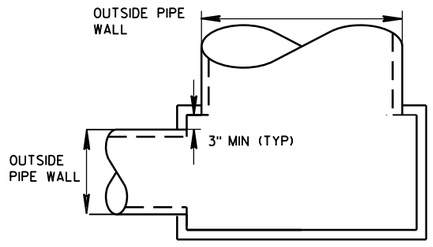
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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

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

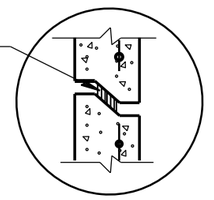
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



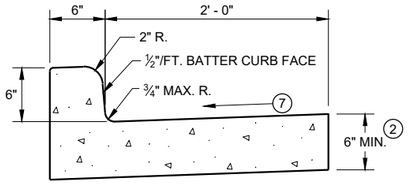
DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

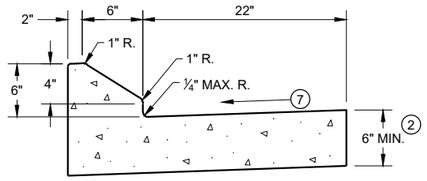
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI ENT
FHWA

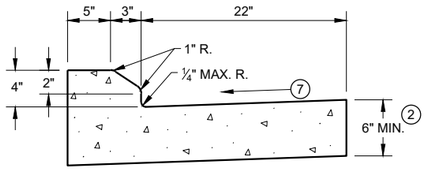
6
S.D.D. 8 C 8-2



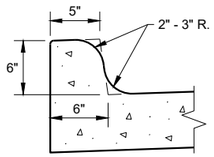
TYPES A (1) & D



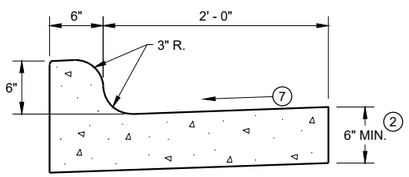
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

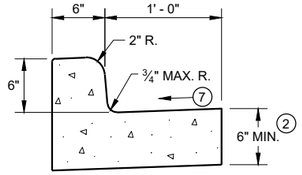


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



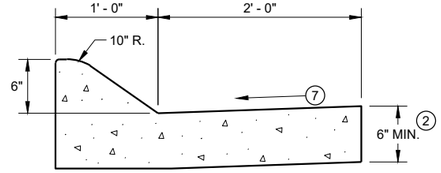
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

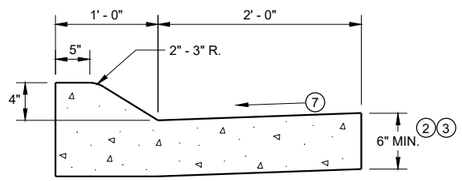


TYPES A (1) & D

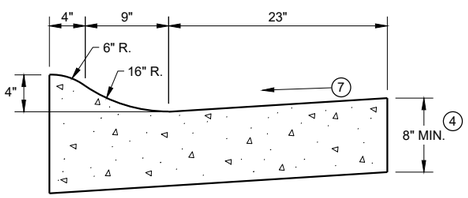
CONCRETE CURB AND GUTTER 18"



6" SLOPED CURB TYPES A (1) & D



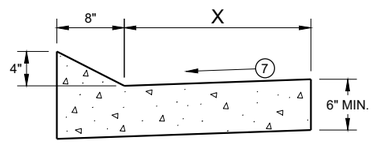
4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB AND GUTTER 36"

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

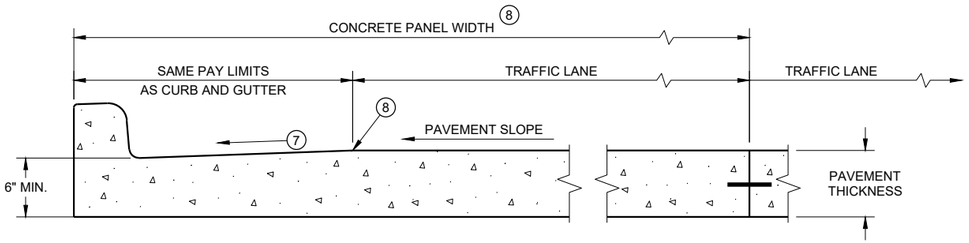


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

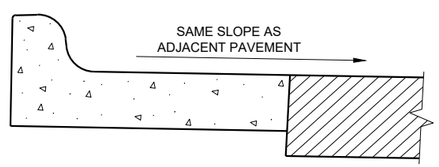
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

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

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

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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 GUTTERS TYPES A, G, K, R, AND TBTT.

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

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

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

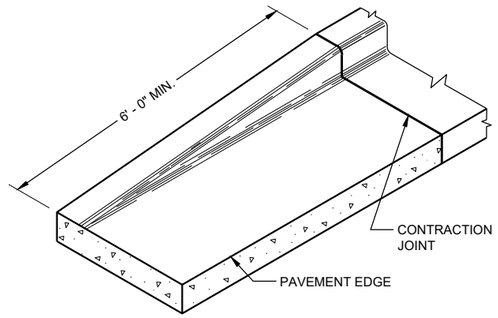
(5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

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

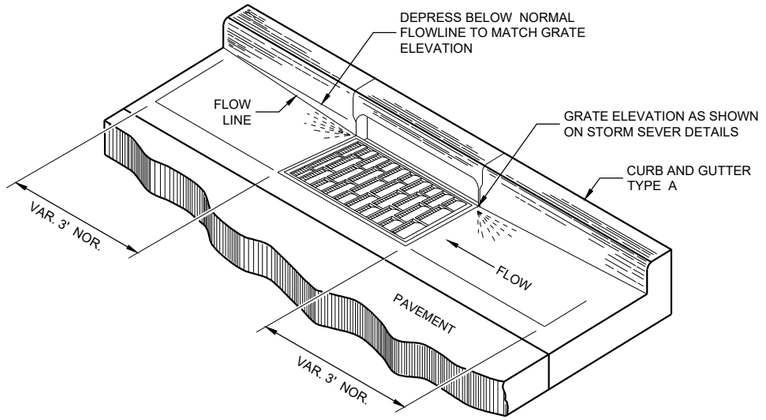
(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

CONCRETE CURB AND GUTTER



END SECTIONCURB AND GUTTER



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

GENERAL NOTES

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

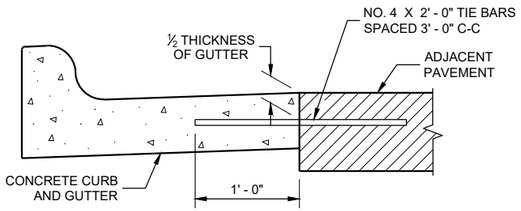
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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

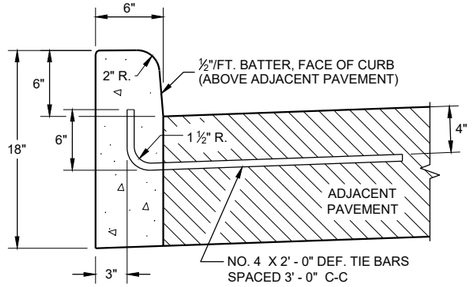
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

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

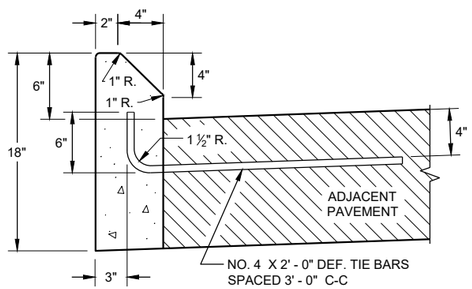
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

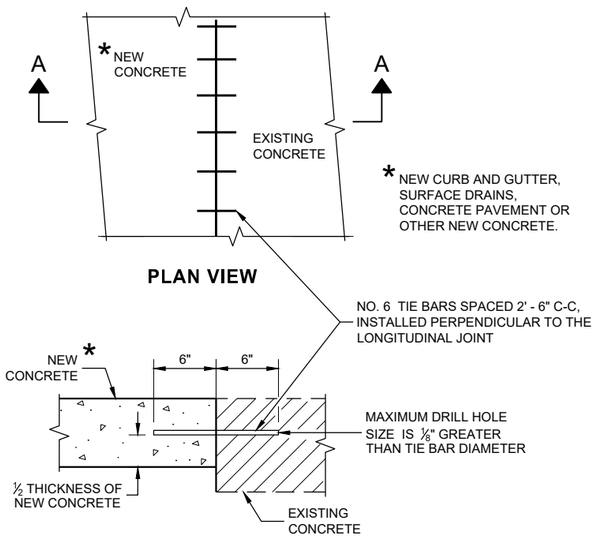


TYPES A (1) & D



TYPES G (1) & J

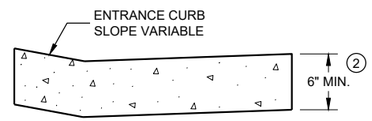
CONCRETE CURB



PLAN VIEW

SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



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

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

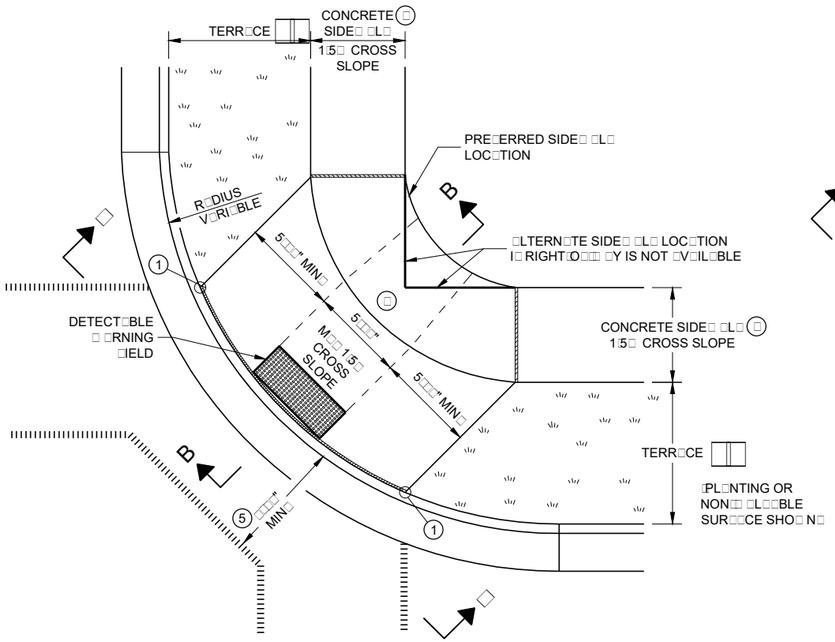
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

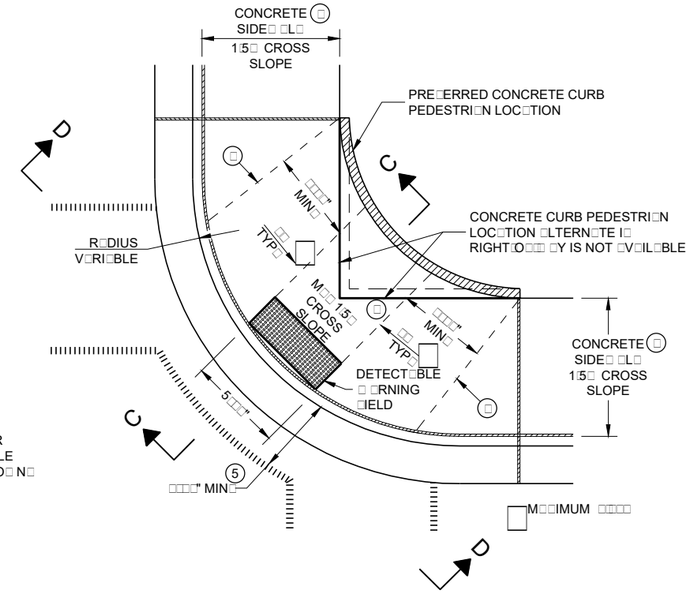
SDD08D01 - 21b



PLAN VIEW

CURB RAMP TYPE 1

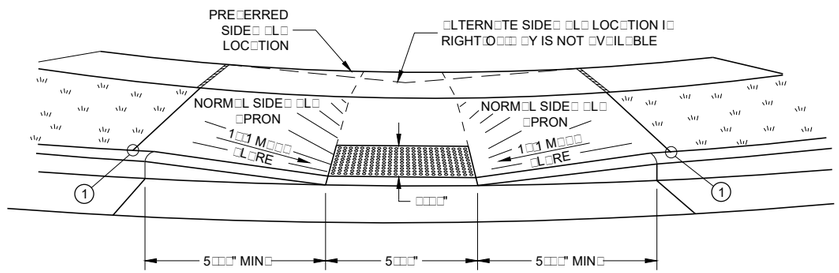
(CENTER OF CORNER RADIUS)



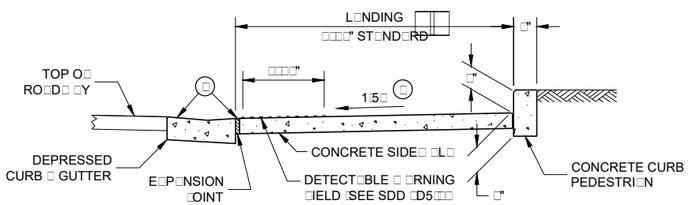
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

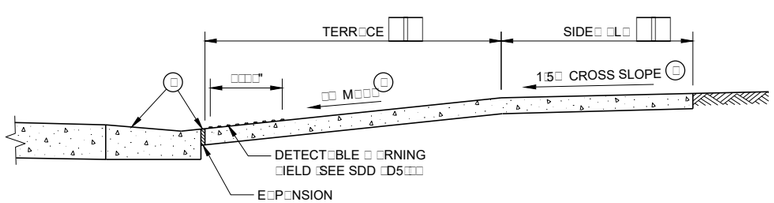


VIEW A - A FOR TYPE 1

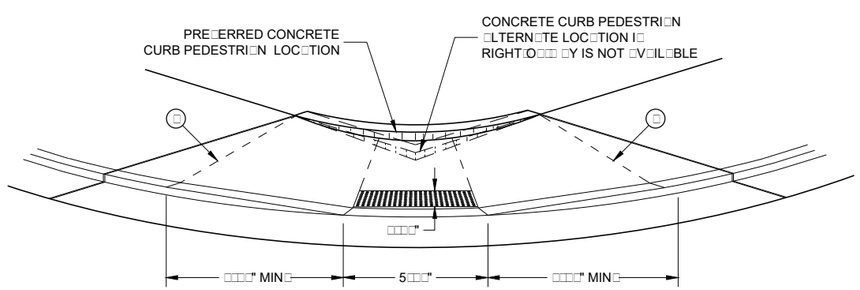


SECTION C - C FOR TYPE 1 - A

□ IDTH SHO□ N ELSE□ HERE IN THE PL□NS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

□VOID PL□CING DR□IN□GE STRUCTURES□UNCTION BO□ES OR OTHER OBSTRUCTIONS IN □RONT O□ R□MP □CCESS □RE□S□

DET□ILS O□ CONSTRUCTION□M□TERI□LS □ND □ OR□M□NSHIP NOT SHO□ N ON THIS DR□□ ING SH□LL CON□ORM TO THE PERTINENT RE□UIREMENTS O□ THE ST□ND□RD SPECI□IC□TIONS □ND THE □PPLIC□BLE SPECI□L PROVISIONS□

□ HEN NECESS□RY□THE SIDE□ □L□ ELEV□TION M□Y BE LO□ ERED TO MEET THE HIGH POINT ON THE R□MP□

TYPE 1 CURB R□MPS SH□LL H□VE □ NORM□L SIDE□ □L□ □PRON □ND CURB ON BOTH SIDES O□ R□MP□

DETECT□BLE □ □RNING □ILED SH□LL BE ME□SURED □ND P□ID BY THE S□U□RE □OOT □S "CURB R□MP DETECT□BLE □ □RNING □IELD"□THE CONCRETE PEDESTRI□N CURB□□ NEEDED□SH□LL BE ME□SURED □ND P□ID BY THE LINE□R □OOT □S "CONCRETE CURB PEDESTRI□N"□CONCRETE SIDE□ □L□ IN THE CURB R□MP □RE□ SH□LL BE ME□SURED □ND P□ID BY THE S□U□RE □OOT □S CONCRETE SIDE□ □L□□INCLUDING THE □RE□ UNDER THE DETECT□BLE □ □RNING □IELD□

SELECT CURB R□MP DETECT□BLE □ □RNING □IELD M□TERI□LS □ND DEVICES □ROM THE DEP□RTMENT'S □PPROVED M□TERI□LS LIST□THE COLOR O□ THE DETECT□BLE □ □RNING □IELD IS SPECI□IED ELSE□ HERE □ND IS INCIDENT□L TO THE BID ITEM O□ "CURB R□MP DETECT□BLE □ □RNING □IELD"

DETECT□BLE □ □RNING □IELDS TH□T □RE INST□LLED □S □ GROUP OR SIDE BY SIDE□SH□LL BE □ROM THE S□ME M□NU□□CTURER□

SUR□□CE TE□TURE O□ THE R□MP SH□LL BE OBT□INED BY CO□RSE BROOMING TR□NSVERSE TO THE SLOPE O□ THE R□MP□

(1) THIS POINT IS □N E□TENSION O□ OUTSIDE EDGE O□ □PPRO□CHING SIDE□ □L□ □ HERE IT MEETS THE B□C□ O□ CONCRETE CURB□POINT LOC□TION M□Y BE □D□USTED TO □LIGN □ ITH BEGINNING O□ □ULL□HEIGHT CURB I□ THIS DIST□NCE IS SHORT□

(□) GR□DE CH□NGE BET□ EEN GUTTER □L□G SLOPE □ND THE CURB R□MP SLOPE SH□LL NOT E□CEED 11□ □M□□IMUM GUTTER □L□G SLOPE IS □□ □PROVIDE LONGITUDIN□L DR□IN□GE □ROUND CURB □ND □□ □Y □ROM CURB R□MP□ NO VERTIC□L LIPS OR DISCONTINUITIES GRE□TER TH□N ¼" □INCH □RE □LLO□ ED□SLOPE O□ CURB HE□D OPENING SH□LL M□TCH THE R□MP SLOPE□MINIM□LLY 1:5□ □ND NOT TO E□CEED □□ □□ HEN □D□□CENT TO 1:5□ L□NDING□ CONSTRUCT CURB HE□D OPENING □T 1:5□ IN THE DIRECTION O□ PEDESTRI□N TR□VEL□

(□) M□□IMUM □□□□□ CURB R□MP SLOPE IS □LLO□ □BLE □ ITH □L□TTENED GUTTER □L□G SLOPE □ND NOT TO E□CEED 11□ GR□DE CH□NGE□

(□) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED □□ □ ITHOUT PRIOR □PPROV□L □ROM THE ENGINEER□

(5) PROVIDE □ LEVEL L□NDING IN THE STREET □ND GUTTER □RE□ □□□ M□□IMUM SLOPE IN □NY DIRECTION□□□ HEN THE GUTTER SLOPE E□CEEDS □□ □CONSTRUCT THE LEVEL L□NDING IN THE STREET □RE□□

(□) PROVIDE □ LEVEL L□NDING □M□□IMUM □□ SLOPE□IN □NY DIRECTION O□ PEDESTRI□N TR□VEL□ST□ND□RD LEVEL L□NDING SI□E IS 5 □EET BY 5 □EET□

(□) PROVIDE GR□DE BRE□□ PERPENDICUL□R TO DIRECTION O□ □ HEELCH□IR TR□VEL□

LEGEND

- ½" E□P□NSION □OINT SIDE□ □L□
- CONTR□CTION □OINT □IELD LOC□TED
- P□VEMENT M□R□ING CROSS□ □L□ □□ HITE□

CURB RAMPS TYPE 1 AND 1-A

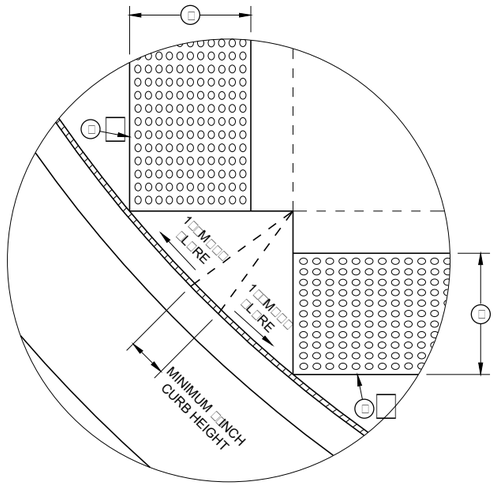
ST□TE O□ □ ISCONSIN
DEP□RTMENT O□ TR□NSPORT□□ 177

SDD 08D05 - 20a

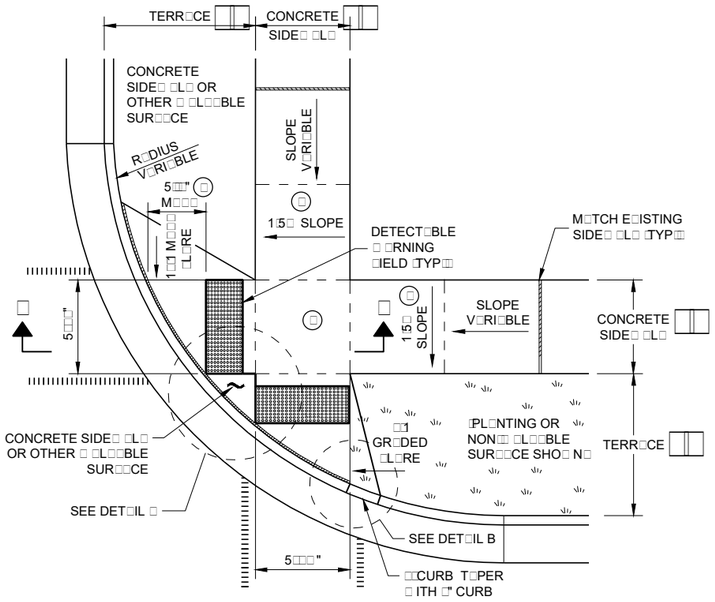
SDD 08D05 - 20a

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DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

□VOID PL□CING DR□IN□GE STRUCTURES□□UNCTION BO□ES OR OTHER OBSTRUCTIONS IN □RONT O□ R□MP □CCESS □RE□S□

DET□ILS O□ CONSTRUCTION□M□TERI□LS □ND □ OR□M□NSHIP NOT SHO□ N ON THIS DR□□ ING SH□LL CON□ORM TO THE PERTINENT RE□UIREMENTS O□ THE ST□ND□RD SPECI□IC□TIONS □ND THE □PPLIC□BLE SPECI□L PROVISIONS□

DETECT□BLE □ □RNING □IELDS TH□T □RE INST□LLED □S □ GROUP OR SIDE BY SIDE SH□LL BE □ROM THE S□ME M□NU□□CTURER□

(1) GR□DE CH□NGE BET□ EEN GUTTER □L□G SLOPE □ND THE CURB R□MP SLOPE SH□LL NOT E□CEED 11□ □M□□IMUM GUTTER □L□G SLOPE IS □□ □PROVIDE LONGITUDIN□L DR□IN□GE □ROUND CURB □ND □□ □Y □ROM CURB R□MP□NO VERTIC□L LIPS OR DISCONTINUITIES GRE□TER TH□N ½ □INCH □RE □LLO□ ED□SLOPE O□ CURB HE□D OPENING SH□LL M□TCH THE R□MP SLOPE□MINIM□LLY 1:5□ □ND NOT TO E□CEED □□ □□ HEN □D□□CENT TO 1:5□ L□NDING□ CONSTRUCT CURB HE□D OPENING □T 1:5□ IN THE DIRECTION O□ PEDESTRI□N TR□VEL□

(2) □N □□□□□ CURB R□MP SLOPE IS □LLO□ □BLE □ ITH □L□TTENED GUTTER □L□G SLOPE □□□□□□ OR LESS□□ND NOT TO E□CEED 11□ GR□DE CH□NGE□

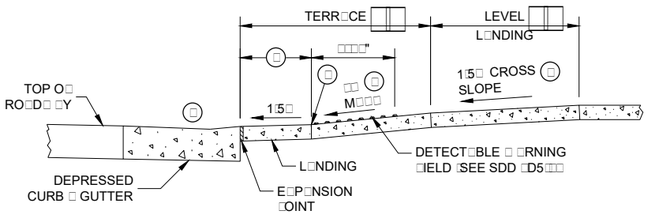
(3) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED □□ □ ITHOUT PRIOR □PPROV□L □ROM THE ENGINEER□

(4) PROVIDE □ LEVEL L□NDING □M□□IMUM □□ SLOPE□IN □NY DIRECTION O□ PEDESTRI□N TR□VEL□ST□ND□RD LEVEL L□NDING SI□E IS 5 □EET □ 5 □EET□

(5) □ HEN GR□DE BRE□□ DIST□NCE E□CEEDS 5 □EET□USE R□DI□L DETECT□BLE □ □RNING □IELD PER SDD □D5□□

(6) PROVIDE GR□DE BRE□□ PERPENDICUL□R TO DIRECTION O□ □ HEELCH□IR TR□VEL□

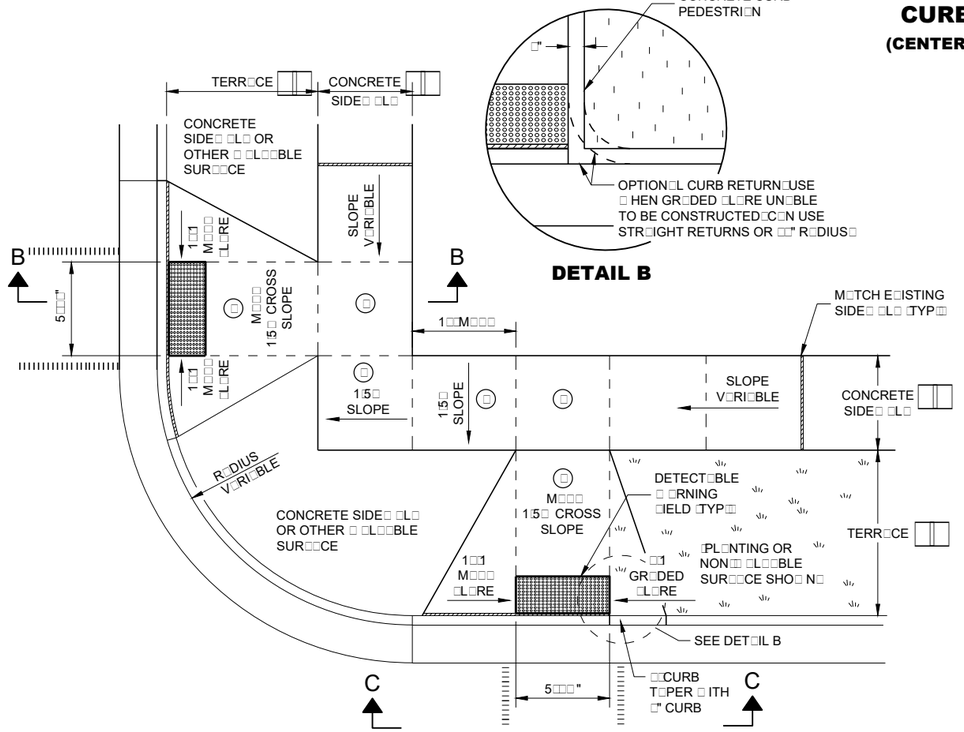
(7) □ HEN DIST□NCE IS LESS TH□N □□□□"□IT M□Y BE DI□□ICULT TO □CHIEVE □ □□ SLOPE OR □L□TTER □LONG THE R□MP□ REDUCE CURB HEIGHT IN TRI□NGLE □RE□ TO □CHIEVE □□ SLOPE OR □L□TTER ON R□MP□CONSTRUCT □INCH MINIMUM CURB HEIGHT BET□ EEN 1□□1 □L□RES□



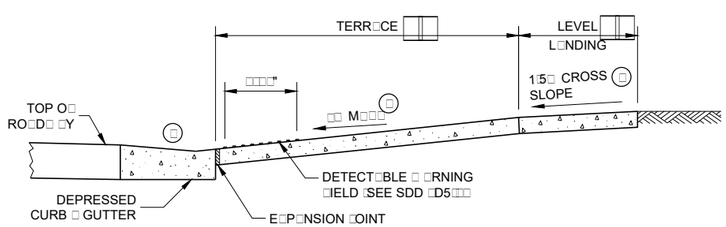
SECTION A - A FOR TYPE 2

□M□□IMUM □□□□ SLOPE
□N □LL DIRECTIONS IN
□RONT O□ GR□DE BRE□□

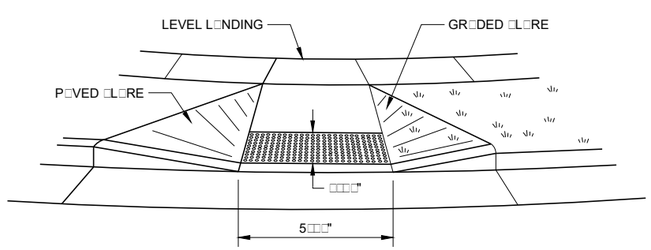
□ IDTH SHO□ N ELSE□ HERE
□N THE PL□NS



PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3

LEGEND

- ½" E□P□NSION □OINT SIDE□ □L□
- CONTR□CTION □OINT SIDE□ □L□
- P□VEMENT M□R□ING CROSS□ □L□ □□ HITE□

CURB RAMPS
TYPE 2 AND 3

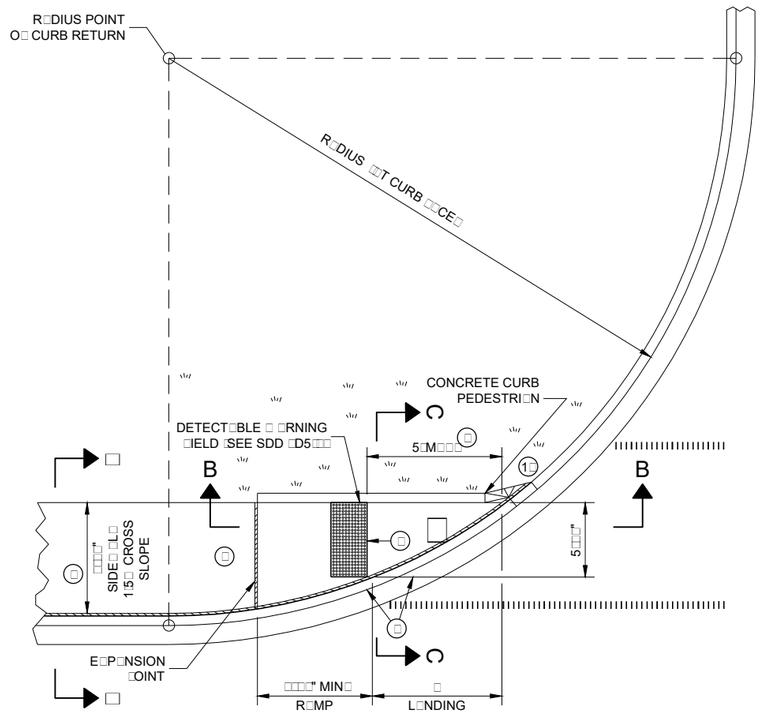
ST□TE O□ □ ISCONSIN
DEP□RTMENT O□ TR□NSPORT□ 178

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SDD 08D05 - 20b

SDD 08D05 - 20b

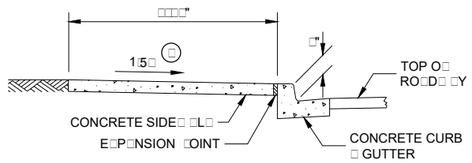


PLAN VIEW

CURB RAMP TYPE 4A

R□DIUS □□T CURB □□CE□	□
1□ □EET	□□□□"
15 □EET	□□□5 ½"

INTERMEDI□TE R□DII C□N BE INTERPOL□TED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

□VOID PL□CING DR□IN□GE STRUCTURES□□UNCTION BO□ES OR OTHER OBSTRUCTIONS IN □RONT O□ R□MP □CCESS □RE□S□

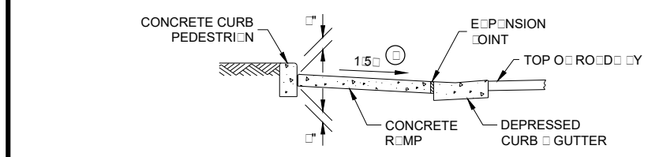
DET□ILS O□ CONSTRUCTION□M□TERI□LS □ND □ OR□M□NSHIP NOT SHO□ N ON THIS DR□□ ING SH□LL CON□ORM TO THE PERTINENT RE□UIREMENTS O□ THE ST□ND□RD SPECI□IC□TIONS □ND THE □PPLIC□BLE SPECI□L PROVISIONS□

DETECT□BLE □ □RNING □IELDS TH□T □RE INST□LLED □S □ GROUP OR SIDE BY SIDE□SH□LL BE □ROM THE S□ME M□NU□□CTURER□

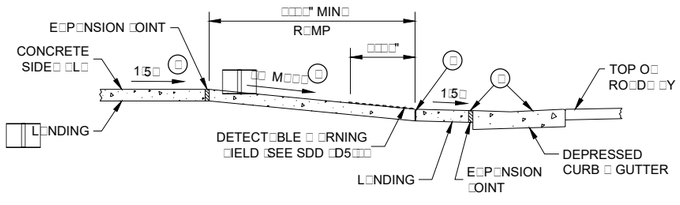
1. GR□DE CH□NGE BET□ EEN GUTTER □L□G SLOPE □ND THE CURB R□MP SLOPE SH□LL NOT E□CEED 11□ □M□□IMUM GUTTER □L□G SLOPE IS □□ □PROVIDE LONGITUDIN□L DR□IN□GE □ROUND CURB □ND □□ □Y □ROM CURB R□MP□NO VERTIC□L LIPS OR DISCONTINUITIES GRE□TER TH□N ¼" □INCH □RE □LLO□ ED□SLOPE O□ CURB HE□D OPENING SH□LL M□TCH THE R□MP SLOPE□ MINIM□LLY 1:5□ □ND NOT TO E□CEED □□ □□ HEN □D□□CENT TO 1:5□ L□NDING□CONSTRUCT CURB HE□D OPENING □T 1:5□ IN THE DIRECTION O□ PEDESTRI□N TR□VEL□
2. □N □□□□□ CURB R□MP SLOPE IS □LLO□ □BLE □ ITH □L□TTENED GUTTER □L□G SLOPE □ND NOT TO E□CEED 11□ GR□DE CH□NGE□
3. ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR □PPROV□L □ROM THE ENGINEER□
4. PROVIDE □ LEVEL L□NDING □M□□IMUM □□ SLOPE□IN □NY DIRECTION O□ PEDESTRI□N TR□VEL□ST□ND□RD LEVEL L□NDING SI□E IS 5 □EET BY 5 □EET□
5. □ HEN THIS GR□DE BRE□□ DIST□NCE E□CEEDS 5 □EET□USE R□DI□L DETECT□BLE □ □RNING □IELD PER SDD □D5□□
6. PROVIDE GR□DE BRE□□ PERPENDICUL□R TO DIRECTION O□ □ HEELCH□IR TR□VEL□
7. INST□LL TR□NSITION NOSE □INCIDENT□L TO OTHER P□Y ITEMS□DO NOT M□R□ TR□NSITION NOSE□

LEGEND

- ½" E□P□NSION □OINT SIDE□ □L□
- CONTR□CTION □OINT SIDE□ □L□
- P□VEMENT M□R□ING CROSS□ □L□ □□ HITE□



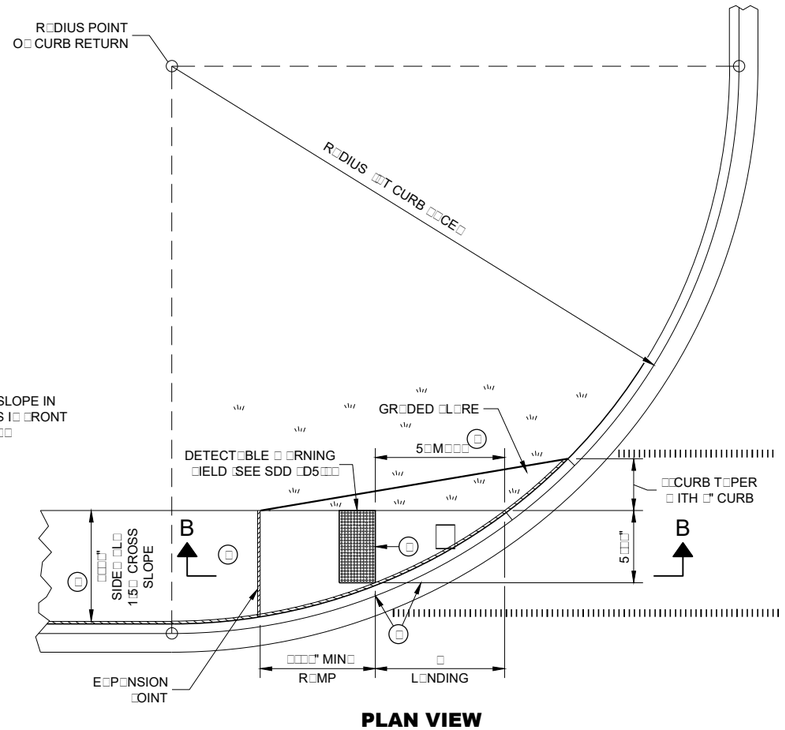
SECTION C - C FOR TYPE 4A



□□ R□MP SLOPE IS LESS TH□N 5□□ □THEN NO □D□□CENT UPHILL L□NDING IS RE□UIRED

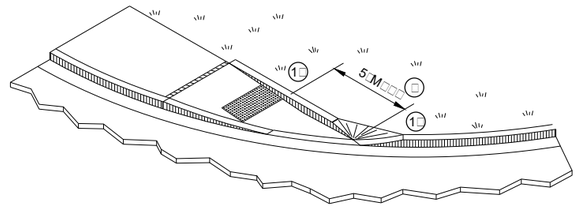
SECTION B - B FOR TYPE 4A AND TYPE 4A1

M□□IMUM □□□□ SLOPE IN □LL DIRECTIONS I□ □RONT O□ GR□DE BRE□□

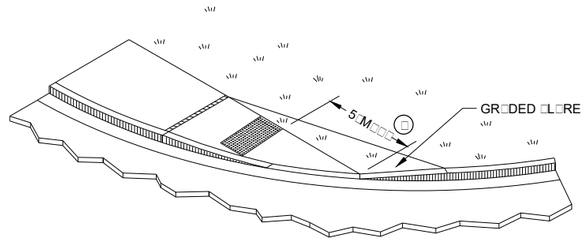


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



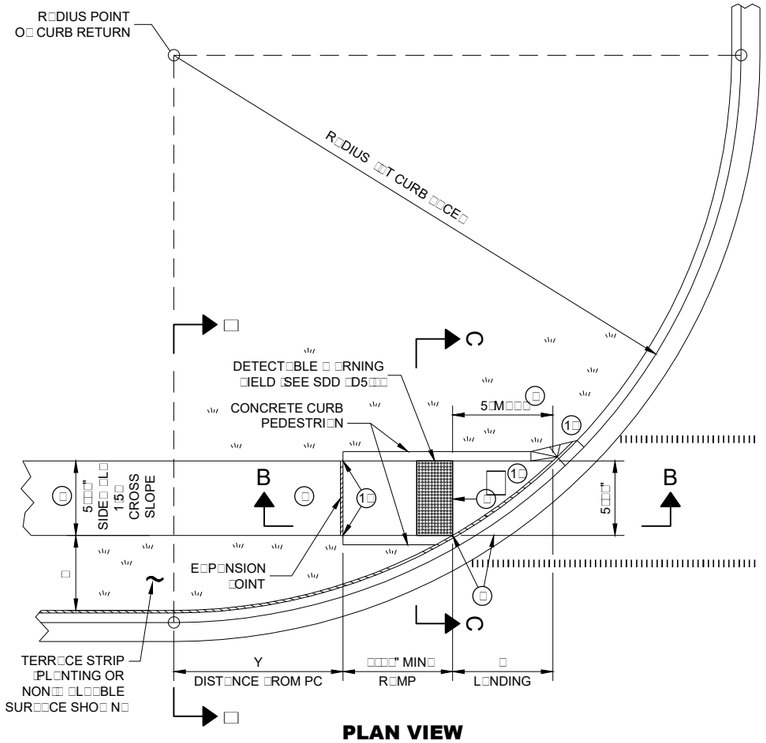
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

ST□TE O□ □ ISCONSIN
DEP□RTMENT O□ TR□NSPORT□

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SDD 08D05 - 20c



PLAN VIEW

CURB RAMP TYPE 4B

R□DIUS □□T CURB □□CE□	□ □ □□□□"		□ □ □□□□"		□ □ 5□□□"		□ □ □□□□"		□ □ □□□□"		□ □ □□□□"		□ □ □□□□"		□ □ 1□□□□"	
	□	Y	□	Y	□	Y	□	Y	□	Y	□	Y	□	Y	□	Y
1□ □EET	□□□1□ ½"	□□□5"	□□□1"	1□□□ ½"	1□□5"	□□□1"	□□□1□"	□□□□ ½"	□□□□ ½"	□□□□ ½"						
15 □EET	□□□□ ½"	□□□1 ½"	□□□□"	□□□5 ½"	□□□1 ½"	□□□□"	□□□□ ½"	5□□□ ½"	□□□1"	□□□1"	1□□□"	□□□□ ½"	1□□□ ½"	□□□□ ½"	□□□1□ ½"	□□□□ ½"
□□ □EET	5□□□ ½"	□□□□ ½"	□□□11 ½"	5□□1 ½"	□□□□ ½"	□□□5 ½"	□□□□ ½"	□□□□"	□□□□"	□□□□ ½"	□□□1□"	□□□□ ½"	□□□5 ½"	1□□□1 ½"	□□□1 ½"	1□□□□"
□□ □EET			□□□□ ½"	□□□11 ½"	□□□□ ½"	□□□□"	5□□5"	11□□1 ½"	□□□1□ ½"	1□□□5 ½"	□□□5 ½"	1□□□□ ½"	□□□□ ½"	1□□□□ ½"	□□□□ ½"	15□□□ ½"
□□ □EET									□□□1 ½"	15□□□ ½"	5□□□"	1□□□□"	5□□□"	1□□□5 ½"	□□□1□ ½"	1□□□□ ½"
5□ □EET															5□□1□ ½"	□□□□□"

INTERMEDI□TE R□DII C□N BE INTERPOL□TED
DIMENSION "Y" IS C□LCUL□TED B□SED ON □□□" R□MP LENGTH
DIMENSION "□" IS C□LCUL□TED B□SED ON 5□□" SIDE□ □L□ □ IDTH

LEGEND

- ½" E□P□NSION □OINT SIDE□ □L□
- CONTR□CTION □OINT SIDE□ □L□
- P□VEMENT M□R□ING CROSS□ □L□ □□ HITE□

GENERAL NOTES

□VOID PL□CING DR□IN□GE STRUCTURES□UNCTION BO□ES OR OTHER OBSTRUCTIONS IN □RONT O□ R□MP □CCESS □RE□S□

DET□ILS O□ CONSTRUCTION□M□TERI□LS □ND □ OR□M□NSHIP NOT SHO□ N ON THIS DR□□ ING SH□LL CON□ORM TO THE PERTINENT RE□UIREMENTS O□ THE ST□ND□RD SPECI□C□TIONS □ND THE □PPLIC□BLE SPECI□L PROVISIONS□

DETECT□BLE □ □RNING □IELDS TH□T □RE INST□LLED □S □ GROUP OR SIDE BY SIDE□SH□LL BE □ROM THE S□ME M□NU□□CTURER□

(□) GR□DE CH□NGE BET□ EEN GUTTER □L□G SLOPE □ND THE CURB R□MP SLOPE SH□LL NOT E□CEED 11□ □M□□IMUM GUTTER □L□G SLOPE IS □□ □PROVIDE LONGITUDIN□L DR□IN□GE □ROUND CURB □ND □□ □Y □ROM CURB R□MP□ NO VERTIC□L LIPS OR DISCONTINUITIES GRE□TER TH□N ¼. □INCH □RE □LLO□ ED□SLOPE O□ CURB HE□D OPENING SH□LL M□TCH THE R□MP SLOPE□ MINIM□LLY 1:5□ □ND NOT TO E□CEED □□ □□ HEN □D□□CENT TO 1:5□ L□NDING□CONSTRUCT CURB HE□D OPENING □T 1:5□ IN THE DIRECTION O□ PEDESTRI□N TR□VEL□

(□) □N □□□□□ CURB R□MP SLOPE IS □LLO□ □BLE □ ITH □L□TTENED GUTTER □L□G SLOPE □ND NOT TO E□CEED 11□ GR□DE CH□NGE□

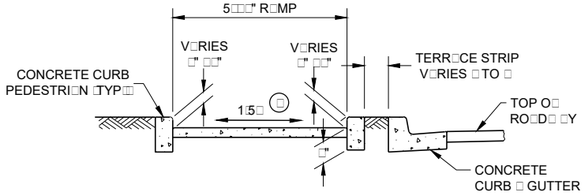
(□) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR □PPROV□L □ROM THE ENGINEER□

(□) PROVIDE □ LEVEL L□NDING □M□□IMUM □□ SLOPE□IN □NY DIRECTION O□ PEDESTRI□N TR□VEL□ST□ND□RD LEVEL L□NDING SI□E IS 5 □EET BY 5 □EET□

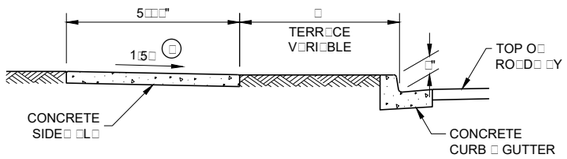
(□) □ HEN THIS GR□DE BRE□□ DIST□NCE E□CEEDS 5 □EET□USE R□DI□L DETECT□BLE □ □RNING □IELD PER SDD □D5□□□

(□) PROVIDE GR□DE BRE□□ PERPENDICUL□R TO DIRECTION O□ □ HEELCH□IR TR□VEL□

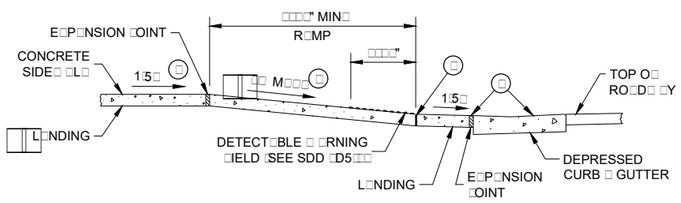
(1□) INST□LL TR□NSITION NOSE □NCIDENT□L TO OTHER P□Y ITEMS□DO NOT M□R□ TR□NSITION NOSE□



SECTION C - C FOR TYPE 4B



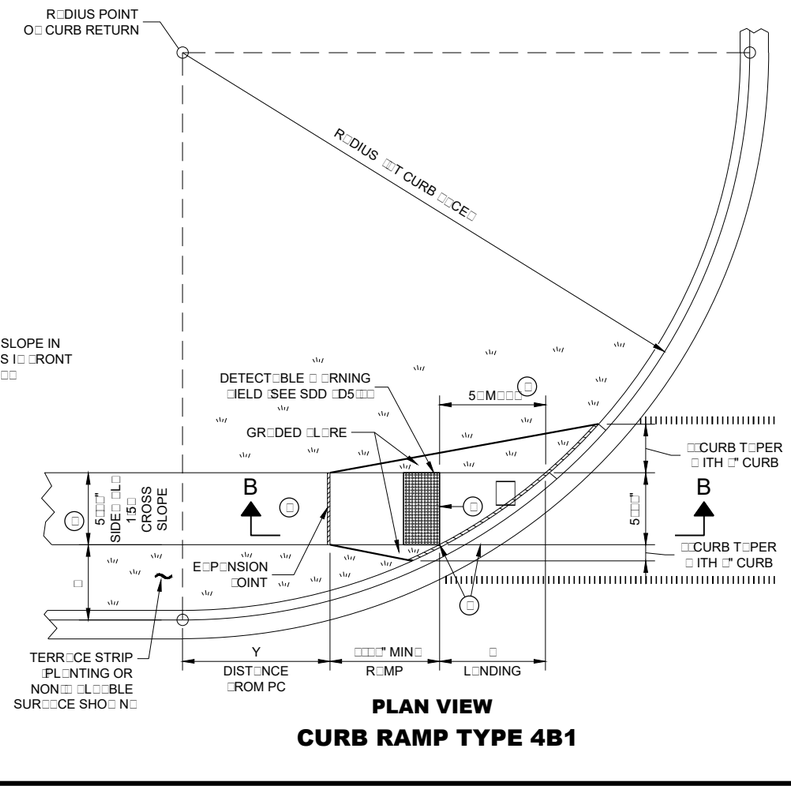
SECTION A - A FOR TYPE 4B



□ M□□IMUM □□□□ SLOPE IN □LL DIRECTIONS I□ □RONT O□ GR□DE BRE□□

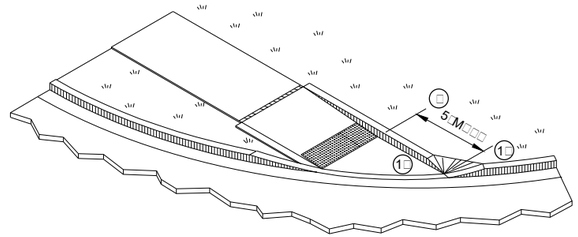
□ 1□ R□MP SLOPE IS LESS TH□N 5□□ □THEN NO □D□□CENT UPHILL L□NDING IS RE□UIRED

SECTION B - B FOR TYPE 4B AND TYPE 4B1

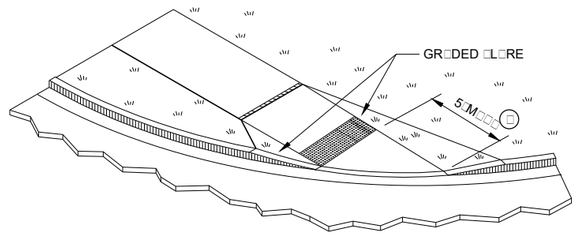


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS
TYPE 4B AND 4B1

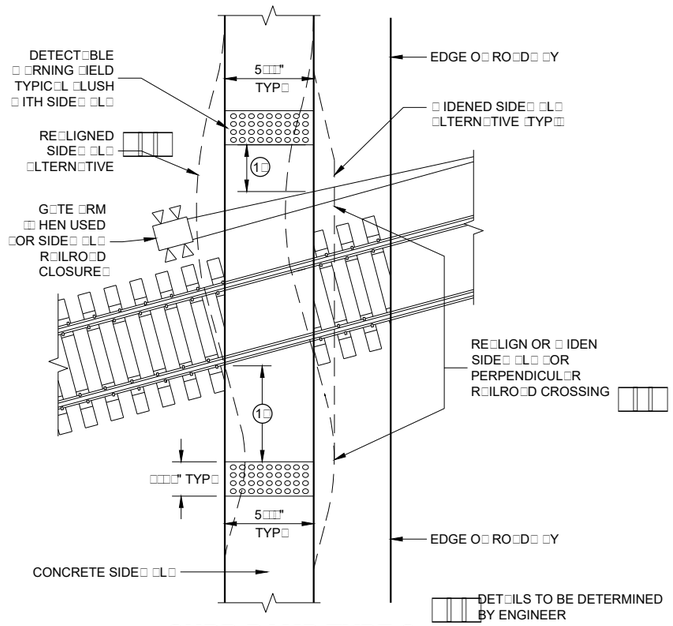
ST□TE O□ □ ISCONSIN
DEP□RTMENT O□ TR□NSPORT□ 180

SDD 08D05 - 20d

SDD 08D05 - 20d

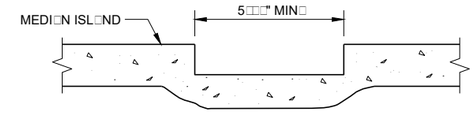
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6

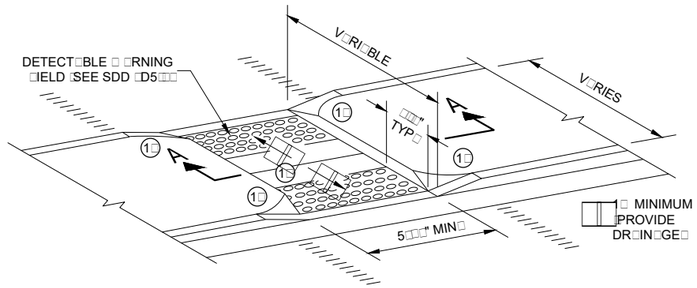


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

□VOID PL□CING DR□IN□GE STRUCTURES□□UNCTION BO□ES OR OTHER OBSTRUCTIONS IN □RONT O□ R□MP □CCESS □RE□S□

DET□ILS O□ CONSTRUCTION□M□TERI□LS □ND □ OR□M□NSHIP NOT SHO□ N ON THIS DR□□ ING SH□LL CON□ORM TO THE PERTINENT RE□UIREMENTS O□ THE ST□ND□RD SPECI□IC□TIONS □ND THE □PPLIC□BLE SPECI□L PROVISIONS□

SIDE□ □L□ CROSS SLOPE SH□LL NOT E□CEED □□ □

DETECT□BLE □ □RNING □IELDS TH□T □RE INST□LLED □S □ GROUP OR SIDE BY SIDE□SH□LL BE □ROM THE S□ME M□NU□□CTURER□

(□) GR□DE CH□NGE BET□ EEN GUTTER □L□G SLOPE □ND THE CURB R□MP SLOPE SH□LL NOT E□CEED 11□ □M□□IMUM GUTTER □L□G SLOPE IS □□ □PROVIDE LONGITUDIN□L DR□IN□GE □ROUND CURB □ND □□ □Y □ROM CURB R□MP□ NO VERTIC□L LIPS OR DISCONTINUITIES GRE□TER TH□N ¼□INCH □RE □LLO□ ED□SLOPE O□ CURB HE□D OPENING SH□LL M□TCH THE R□MP SLOPE□ MINIM□LLY 1.5□ □ND NOT TO E□CEED □□ □□ HEN □D□□CENT TO 1.5□ L□NDING□CONSTRUCT CURB HE□D OPENING □T 1.5□ IN THE DIRECTION O□ PEDESTRI□N TR□VEL□

(□) □N □□□□□ CURB R□MP SLOPE IS □LLO□ □BLE □ ITH □L□TTENED GUTTER □L□G SLOPE □ND NOT TO E□CEED 11□ GR□DE CH□NGE□

(□) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR □PPROV□L □ROM THE ENGINEER□

(□) PROVIDE □ LEVEL L□NDING □M□□IMUM □□ SLOPE□IN □NY DIRECTION O□ PEDESTRI□N TR□VEL□ST□ND□RD LEVEL L□NDING SI□E IS 5 □EET BY 5 □EET□

(1□) INST□LL TR□NSITION NOSE □NCIDENT□L TO OTHER P□Y ITEMS□DO NOT M□R□ TR□NSITION NOSE□

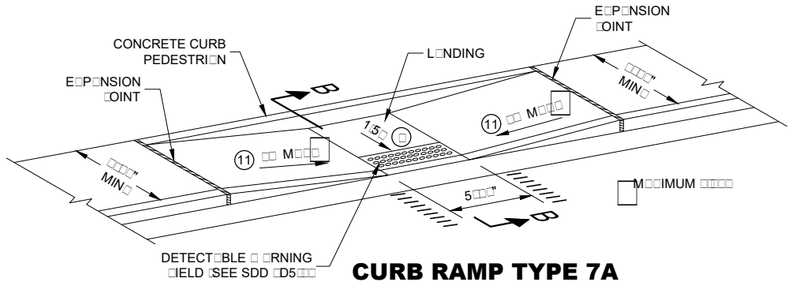
(11) SLOPE SIDE□ □L□ TO□ □RD L□NDING □S SHO□ N □ HERE THERE IS NO TERR□CE OR □ HERE THE TERR□CE □ IDTH IS LESS TH□N □ □EET □ IDE□

(1□) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE O□ THE G□TE □RM I□ THE G□TE □RM E□TENDS □CROSS THE SIDE□ □L□□□ HERE THERE IS NO PEDESTRI□N G□TE□THE EDGE O□ THE DETECT□BLE □ □RNING □IELD NE□REST TO THE R□ILRO□D CROSSING SH□LL BE 15 □EET □ROM THE NE□REST R□IL□

(1□) DO NOT INST□LL DETECT□BLE □ □RNING □IELDS □T THE EDGES O□ STEET□LEVEL PEDESTRI□N RE□UGE ISL□NDS I□ □ MINIMUM □ □OOT CONCRETE SUR□□CE □ ITHOUT DETECT□BLE □ □RNINGS □ME□SURED IN THE DIRECTION O□ PEDESTRI□N TR□VEL□C□NNOT BE □CHIEVED□

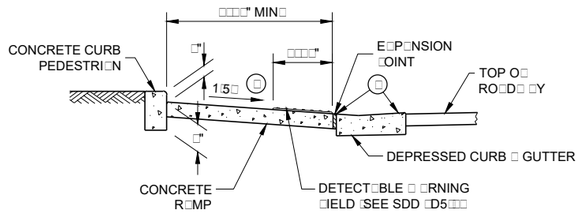
LEGEND

- ½" E□P□NSION □OINT SIDE□ □L□
- CONTR□CTION □OINT □IELD LOC□TED
- P□VEMENT M□R□ING CROSS□ □L□ □□ HITE□

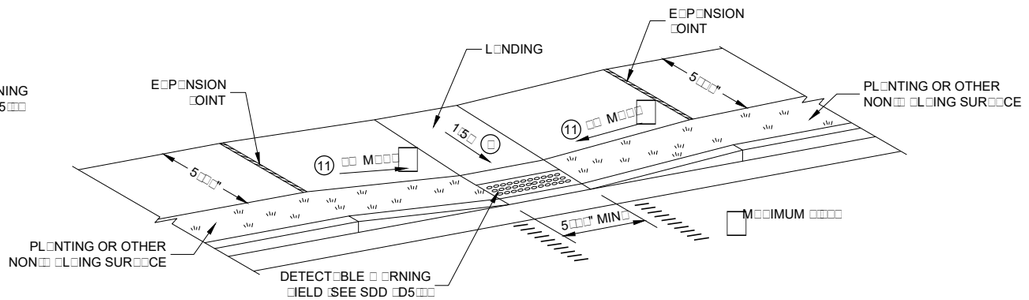


CURB RAMP TYPE 7A

MID BLOCK CROSSING



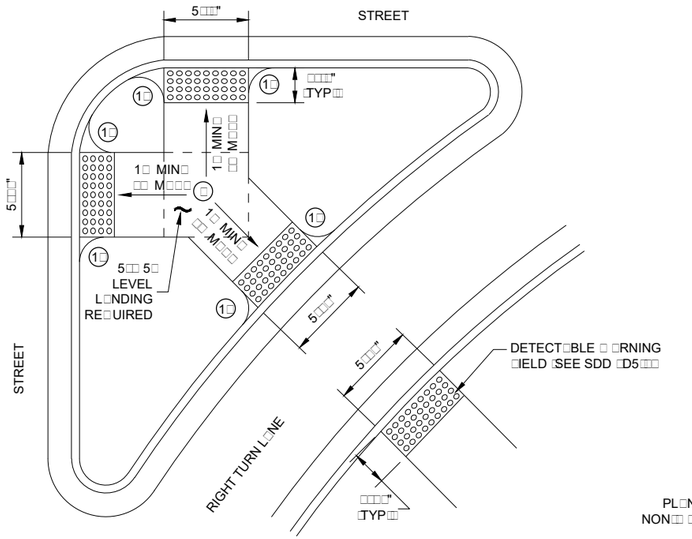
SECTION B - B FOR TYPE 7A



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE□THESE P□R□LLEL □ND P□R□LLEL□PERPENDICUL□R CURB R□MPS M□Y BE USED □T INTERSECTIONS □ND MID BLOC□ LOC□TIONS□



CURB RAMP TYPE 6

DETECTABLE WARNING AT ISLANDS

RE□ER TO GENER□L NOTES (□) □ND (□) □OR □LL ISL□ND CURB R□MPS

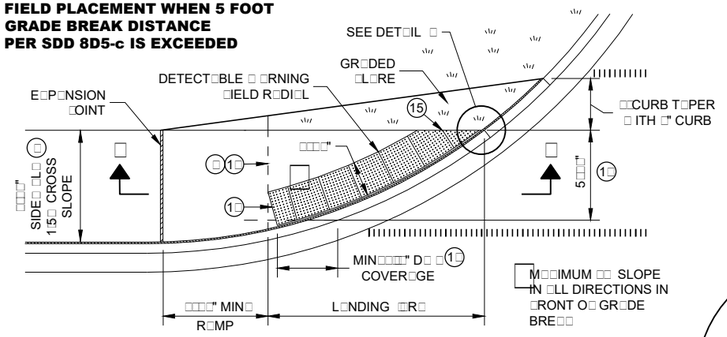
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

ST□TE O□ □ ISCONSIN
DEP□RTMENT O□ TR□NSPORT□T

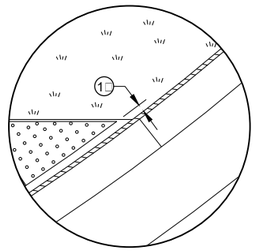
6

SDD 08D05 - 20e

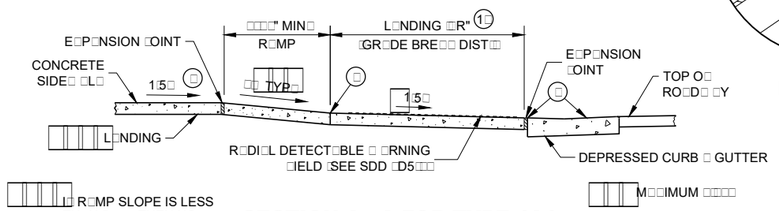
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW
CURB RAMP TYPE 4A1
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

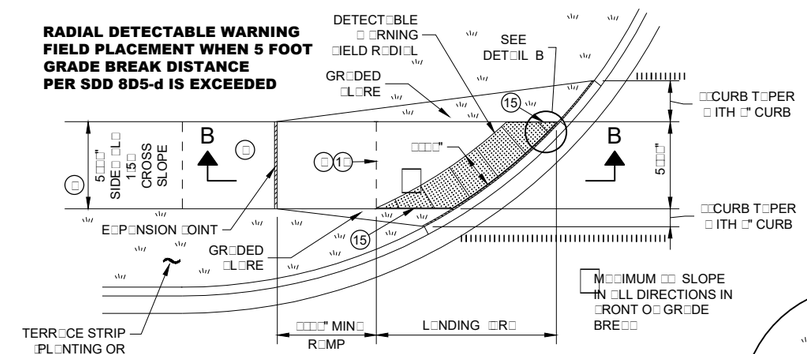


DETAIL A

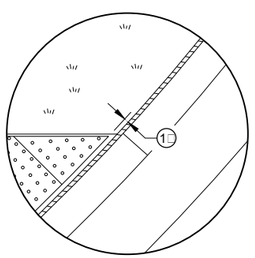


SECTION A - A FOR TYPE 4A1

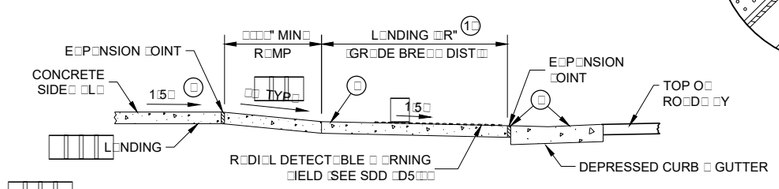
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



PLAN VIEW
CURB RAMP TYPE 4B1
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B



SECTION B - B FOR TYPE 4B1

LEGEND

- ⅛" E□P□NSION □OINT SIDE□ □L□
- CONTR□CTION □OINT SIDE□ □L□
- P□VEMENT M□R□ING CROSS□ □L□ □□ HITE□

GENERAL NOTES

□VOID PL□CING DR□IN□GE STRUCTURES□□UNCTION BO□ES OR OTHER OBSTRUCTIONS IN □RONT O□ R□MP □CCESS □RE□S□

DET□ILS O□ CONSTRUCTION□M□TERI□LS □ND □ OR□M□NSHIP NOT SHO□ N ON THIS DR□□ ING SH□LL CON□ORM TO THE PERTINENT RE□UIREMENTS O□ THE ST□ND□RD SPECI□IC□TIONS □ND THE □PPLIC□BLE SPECI□L PROVISIONS□

DETECT□BLE □ □RNING □IELDS TH□T □RE INST□LLED □S □ GROUP OR SIDE BY SIDE□SH□LL BE □ROM THE S□ME M□NU□□CTURER□

□PPLY R□DI□L DETECT□BLE □ □RNING PL□CEMENT SIMIL□RLY □OR TYPE □□ □ND □□1 CURB R□MPS □ND SIMIL□RLY □OR TYPE □B □ND □B1 CURB R□MPS□TYPE □□ □ND □B CURB R□MPS □RE NOT SHO□ N□

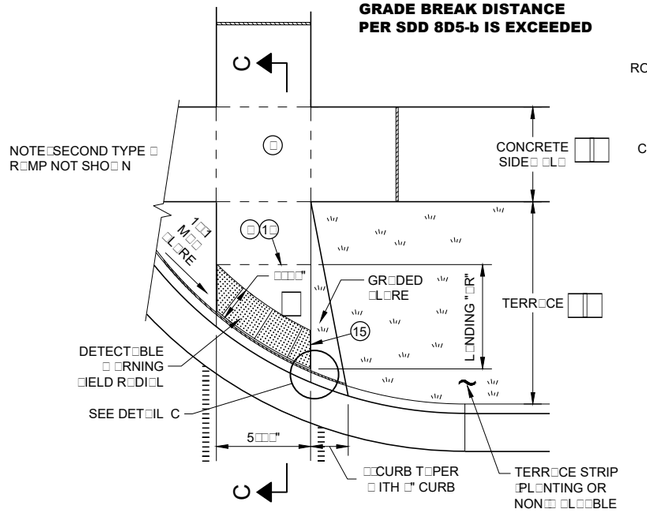
RE□ER TO SDD □D5□□ □OR □DDITION□L R□DI□L PL□TE RE□UIREMENTS□

□IELD CUTS □T INTERMEDI□TE □OINTS □ ITHIN THE R□DI□L DETECT□BLE □ □RNING □ILED □RE PROHIBITED□

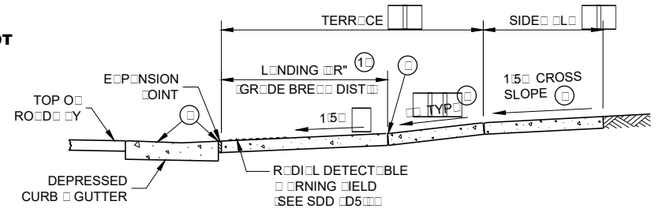
DETERMINE □IN□L R□DI□L □ □RNING □IELD CON□IGUR□TION □D ITS INDIVIDU□L PL□TE LOC□TIONS□PER□ORM PRE□L□YOUT PRIOR TO PL□CEMENT IN PL□STIC CONCRETE□□OLLO□ M□NU□□CTURER'S PRODUCT LIST □ND INST□LL□TION RECOMMEND□TIONS□

1. GR□DE CH□NGE BET□EEN GUTTER □L□G SLOPE □ND THE CURB R□MP SLOPE SH□LL NOT E□CEED 11□ □M□□IMUM GUTTER □L□G SLOPE IS □□ □PROVIDE LONGITUDIN□L DR□IN□GE □ROUND CURB □ND □□ □Y □ROM CURB R□MP□ NO VERTIC□L LIPS OR DISCONTINUITIES GRE□TER TH□N ⅛" □INCH □RE □LLO□ ED□SLOPE O□ CURB HE□D OPENING SH□LL M□TCH THE R□MP SLOPE□MINIM□LLY 1:5□ □ND NOT TO E□CEED □□ □□ HEN □D□□CENT TO 1:5□ L□NDING□CONSTRUCT CURB HE□D OPENING □T 1:5□ IN THE DIRECTION O□ PEDESTRI□N TR□VEL□
2. □N □□□□□ CURB R□MP SLOPE IS □LLO□ □BLE □ ITH □L□TTENED GUTTER □L□G SLOPE □ND NOT TO E□CEED 11□ GR□DE CH□NGE□
3. ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
4. PROVIDE □ LEVEL L□NDING □M□□IMUM □□ SLOPE□IN □NY DIRECTION O□ PEDESTRI□N TR□VEL□ST□ND□RD L□NDING SI□E IS 5 □EET BY 5 □EET□
5. PROVIDE GR□DE BRE□□ PERPENDICUL□R TO DIRECTION O□ □ HEELCH□IR TR□VEL□
6. CONSULT ENGINEER I□ GR□DE BRE□□ LOC□TION □END O□ L□NDING DIMENSION "□R"□RE□UIRES □IELD □D□USTMENT □ HEN EST□BLISHING □IN□L R□DI□L DETECT□BLE □ □RNING □IELD LOC□TION□
7. □IELD S□□ CUTS □LONG R□DI□L DETECT□BLE □ □RNING PL□TES □ ILL BE NECESS□RY TO M□TCH E□CH CURB R□MP EDGE□□VOID CUTTING THROUGH DOMES □ HENEVER POSSIBLE□ M□□E □IELD CUTS TRUE TO LINE □ND □ ITHIN ⅛" DEVI□TION□SMOOTH EDGES O□ □IELD CUT PL□TES□
8. USE 1□□ □" RECT□NGUL□R END PL□TE □T END O□ TYPE □□1 R□MP □ND PROVIDE MINIMUM □□□□" DETECT□BLE □ □RNING □IELD COVER□GE □IN DIRECTION O□ PEDESTRI□N TR□VEL□ □LONG THE ENTIRE CURB R□MP □ IDTH□
9. □ M□□IMUM □INCH CONCRETE BORDER □ ITH IS □LLO□ □BLE IN □ROM O□ R□DI□L DETECT□BLE □ □RNING □IELD □OR CONSTRUCT□BILITY PURPOSES□CONCRETE BORDER □ IDTH M□Y V□RY UP TO 1 INCH□

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED



PLAN VIEW
CURB RAMP TYPE 2
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)
(ON LINE WITH SIDEWALK)

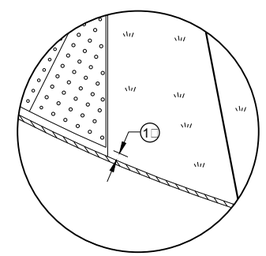


SECTION C - C FOR TYPE 2

M□□IMUM □□ SLOPE IN □LL DIRECTIONS IN □RONT O□ GR□DE BRE□□

□ IDTH SHO□ N ELSE□ HERE IN THE PL□NS

M□□IMUM □□□□



DETAIL C

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

ST□TE O□ □ ISCONSIN
DEP□RTMENT O□ TR□NSPORT□ 182

6

SDD 08D05 - 20f

GENERAL NOTES

DETECT□BLE □ □RNING □IELDS TH□T □RE INST□LLED □T □ CURB R□MP SH□LL BE □ROM THE S□ME M□NU□□CTURER□

PL□CE □LL DETECT□BLE □ □RNING □IELD SYSTEMS IN □CCORD□NCE TO THE M□NU□□CTURER'S RECOMMEND□TION□

□IELD CUTS □T INTERMEDI□TE □OINTS □ ITHIN THE R□DI□L DETECT□BLE □ □RNING □ILED □RE PROHIBITED□

DETERMINE □IN□L R□DI□L □ □RNING □IELD CON□IGUR□TION □ND ITS INDIVIDU□L PL□TE LOC□TIONS□PER□ORM PRE□L□YOUT PRIOR TO PL□CEMENT IN PL□STIC CONCRETE□□OLLO□ M□NU□□CTURER'S PRODUCT LIST □ND INST□LL□TION RECOMMEND□TIONS□

□OR R□DI□L DETECT□BLE □ □RNING □IELD □PPLIC□TIONS □ HERE ST□ND□RD R□DI□L PL□TES □RE NOT □V□IL□BLE □T □N INTERSECTION CURB R□DIUS□□ COMBIN□TION O□ S□U□RE OR RECT□NGUL□R PL□TES □ND R□DI□L PL□TES M□Y BE USED TO □ORM R□DI□L CON□IGUR□TION□R□DI□L □ EDGE PL□TES IN COMBIN□TION □ ITH S□U□RE PL□TES □RE □LSO □CCEPT□BLE□□OLLO□ M□NU□□CTURER'S RECOMMEND□TIONS□

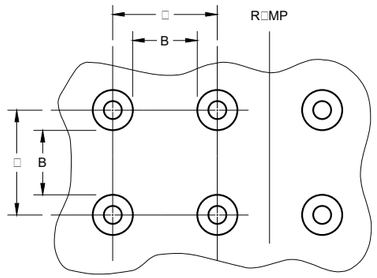
RE□ER TO CONTR□CT □ND ST□ND□RD SPECI□IC□TIONS □OR □IELD CUTTING RE□UIREMENTS□

DO NOT EMBED IN CONCRETE □NY □IELD□CUT PL□TES □ ITH CUT EDGES SHORTER TH□N □ INCHES□CONSULT □ ITH M□NU□□CTURER □OR RE□DRILLING □ND □NCHORING RE□UIREMENTS O□ □IELD□CUT PL□TES□

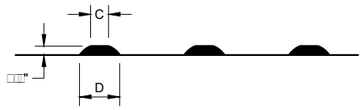
⑮ □IELD S□□ CUTS □LONG R□DI□L DETECT□BLE □ □RNING PL□TES □ ILL BE NECESS□RY TO M□TCH E□CH CURB R□MP EDGE□□VOID CUTTING THROUGH DOMES □ HENEVER POSSIBLE□M□□E □IELD CUTS TRUE TO LINE □ND □ ITHIN ¼" DEVI□TION□SMOOTH EDGES O□ □IELD CUT PL□TES□

	MIN□	M□□□
□	1□□"	□□□"
B	□□5"	1□5"
C		
D	□□□"	1□□"

□THE C DIMENSION IS 5□□ TO □5□ O□ THE D DIMENSION□

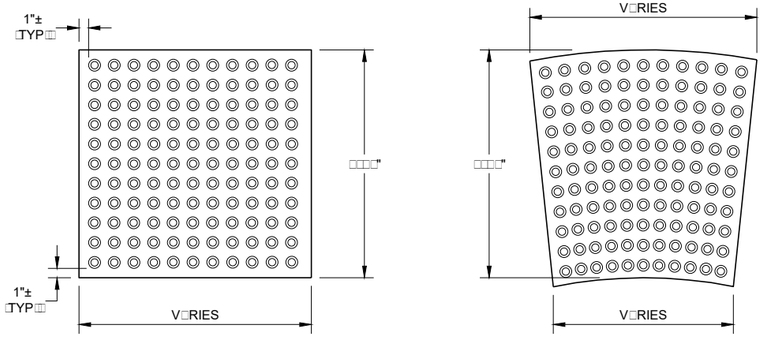


PLAN VIEW



ELEVATION VIEW

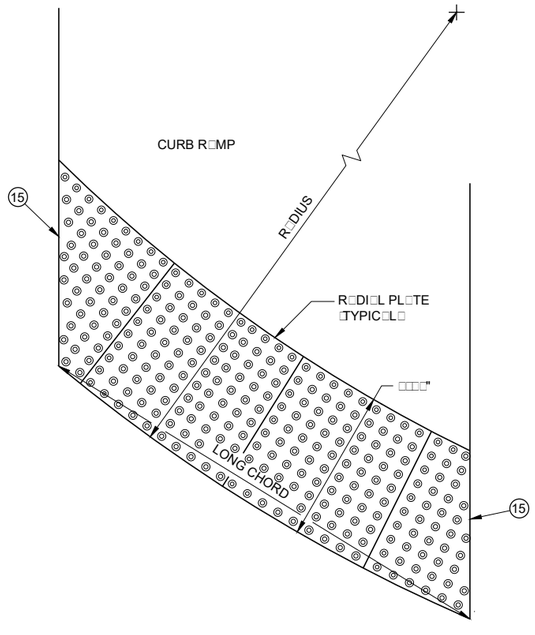
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



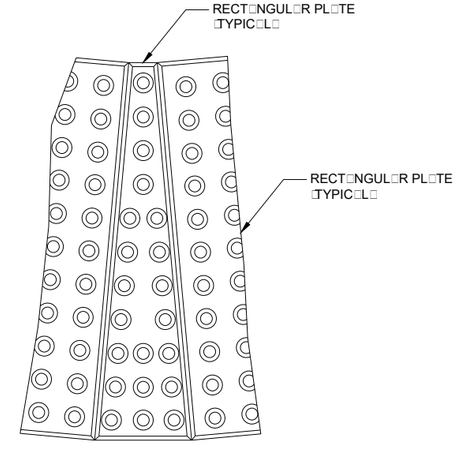
RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

ST□TE O□ □ ISCONSIN
DEP□RTMENT O□ TR□NSPORT□TION

□PPROVED

M□□ □□1□ — □S□ R□d□□□ T□□□r
D□TE — RO□D□ □Y ST□ND□RDS DEVE UNIT SUPERVISOR

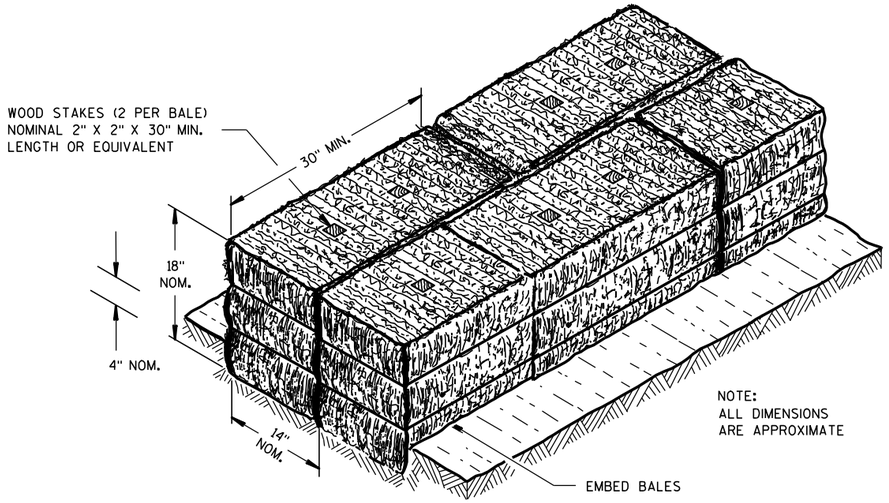
□H□□

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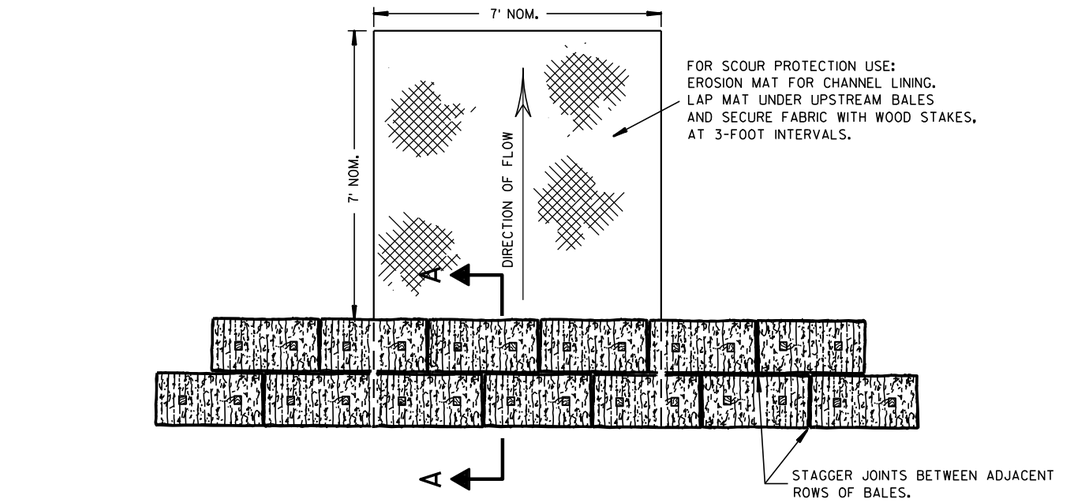
SDD 08D05 - 20g

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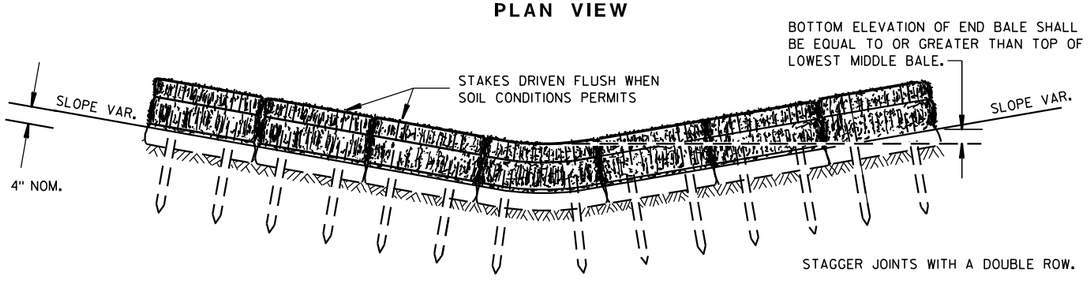
SDD 08D05 - 20g



SECTION A-A



PLAN VIEW



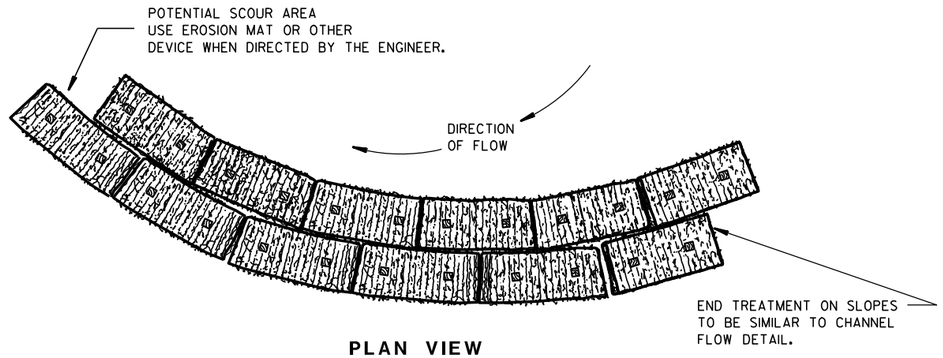
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

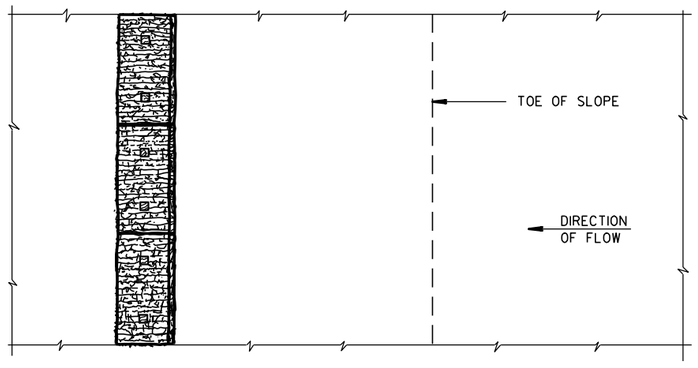
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

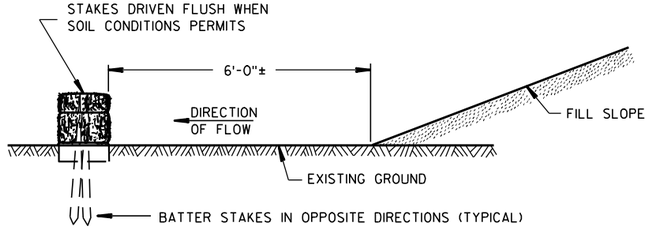


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

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

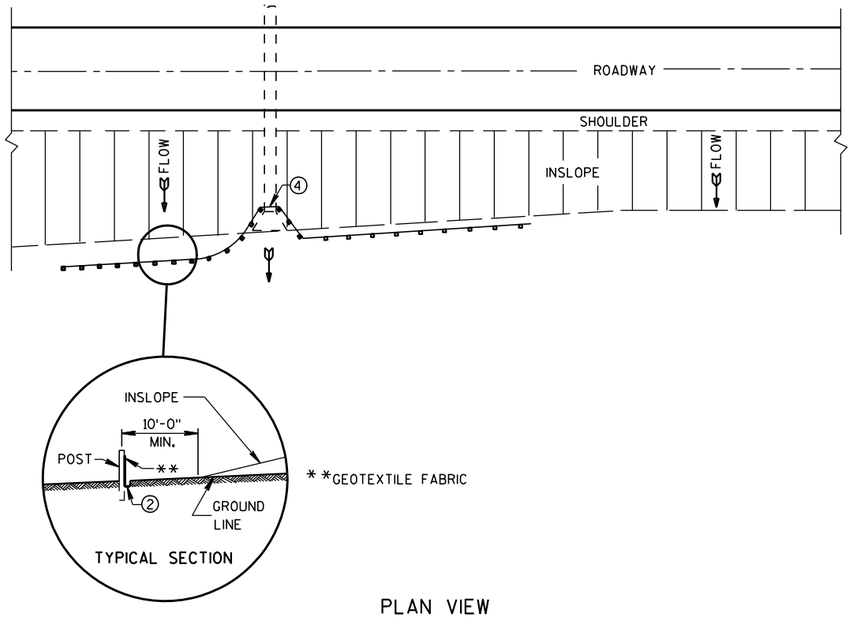
FHWA

6

S.D.D. 8 E 8-3

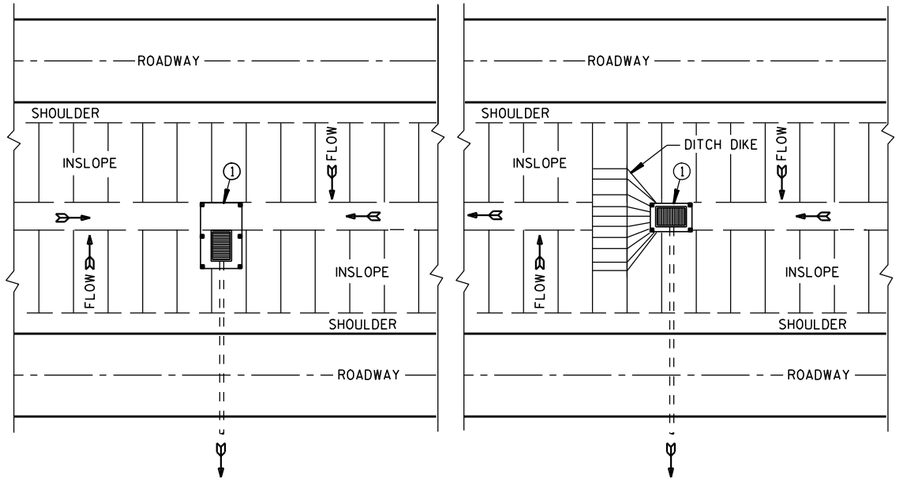
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

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

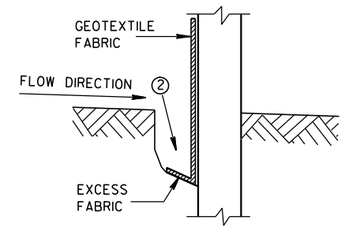
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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

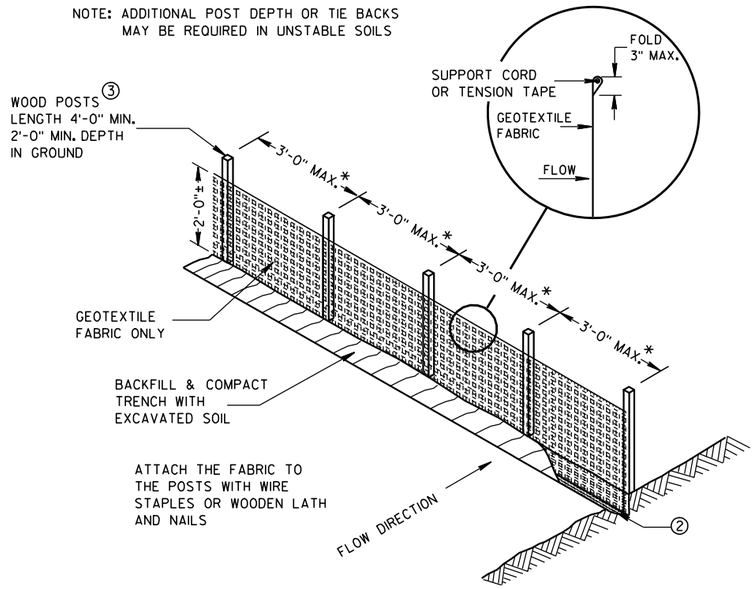
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

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

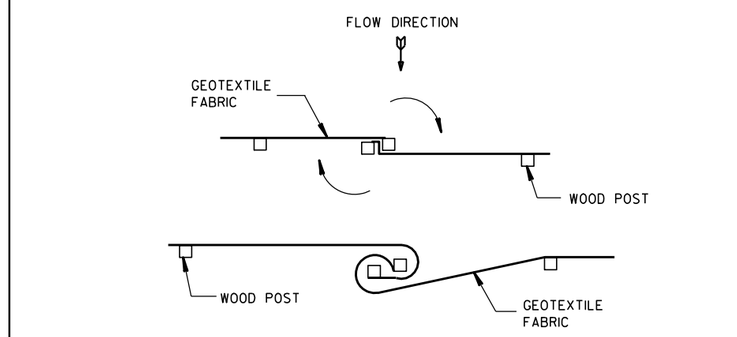
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



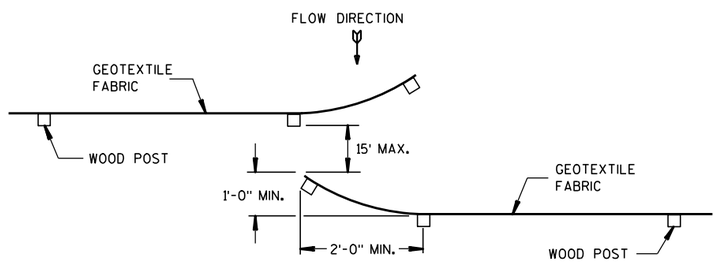
TRENCH DETAIL



SILT FENCE

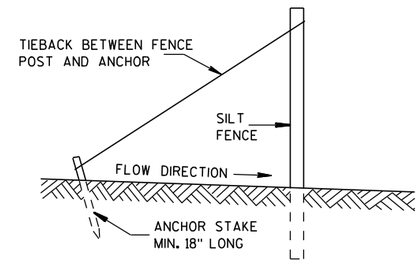


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

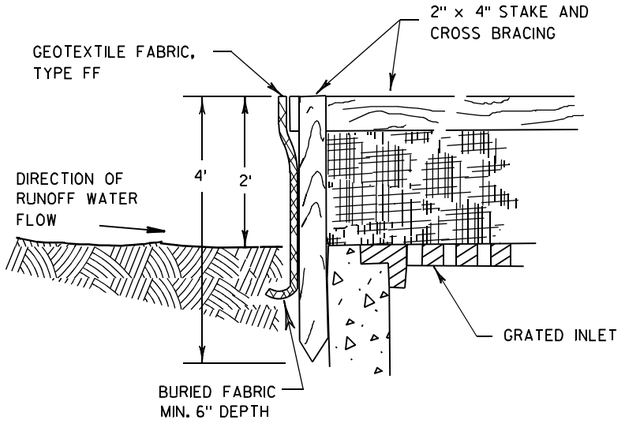
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

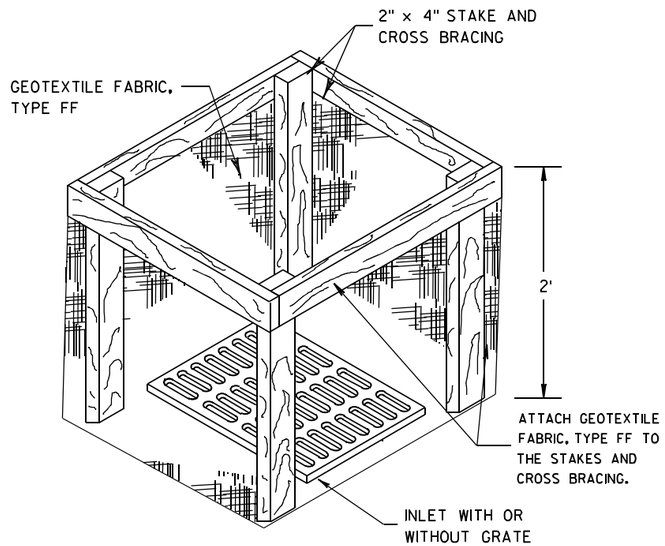
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S.D.D. 8 E 9-6

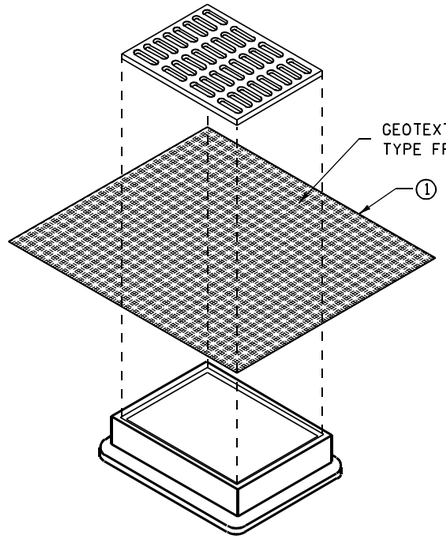
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S.D.D. 8 E 9-6



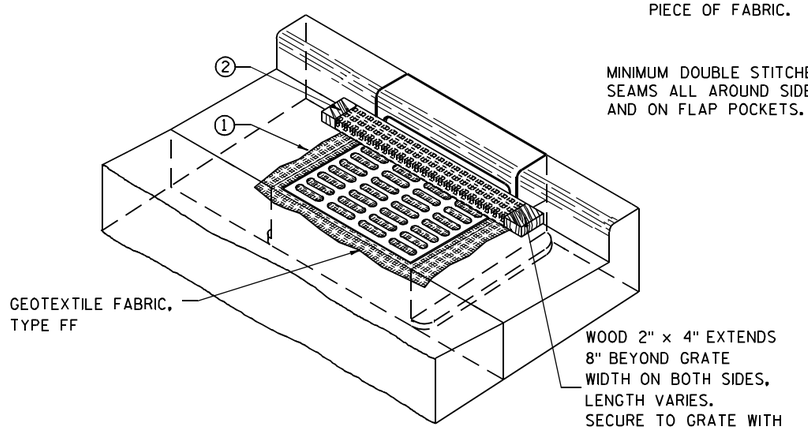


INLET PROTECTION, TYPE A

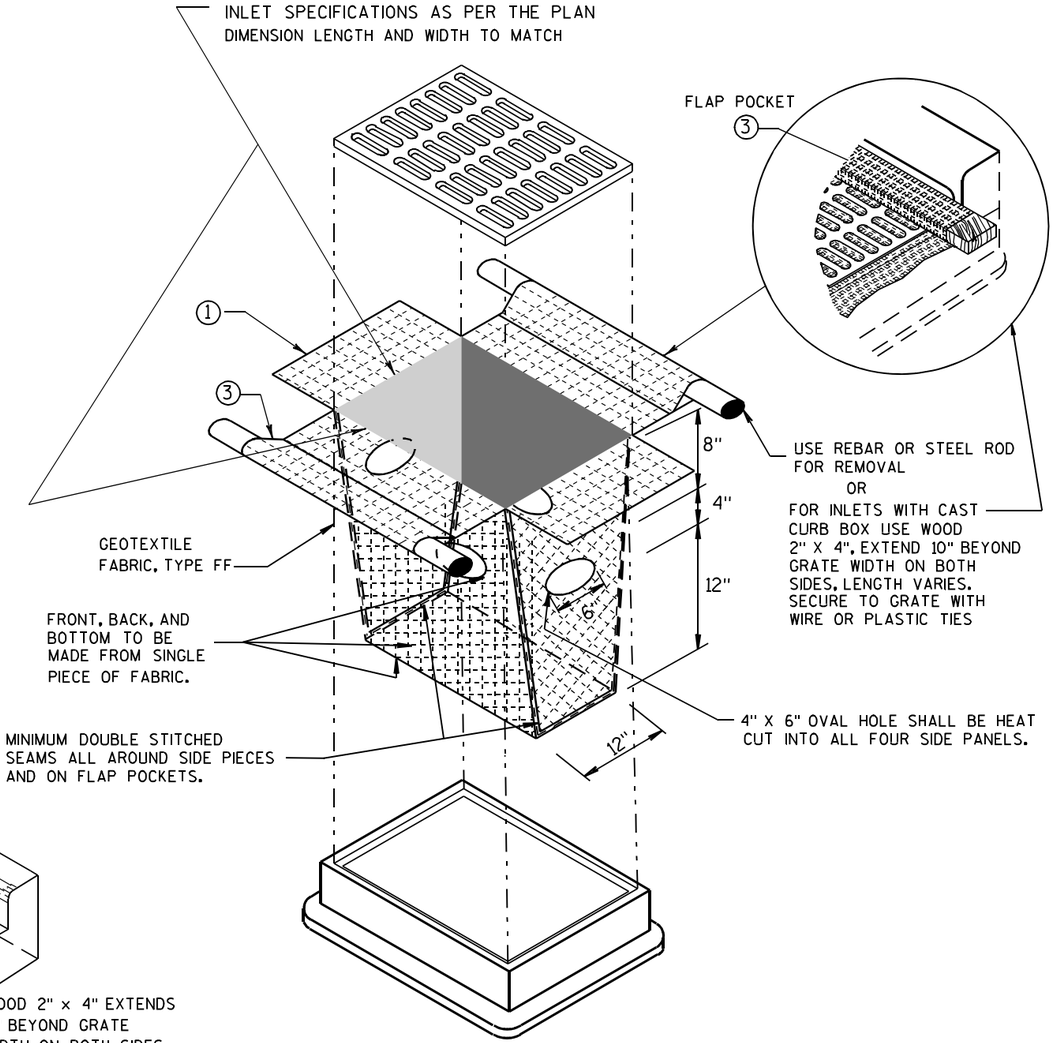


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

GENERAL NOTES

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

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

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

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

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

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

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

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

METAL APRON ENDWALLS

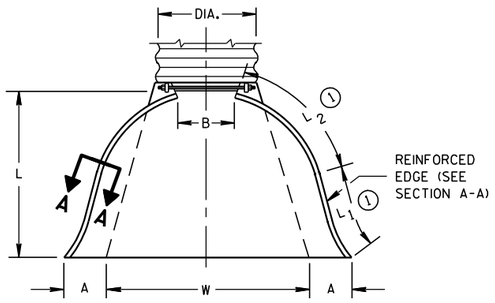
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4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

× EXCEPT CENTER PANEL SEE GENERAL NOTES

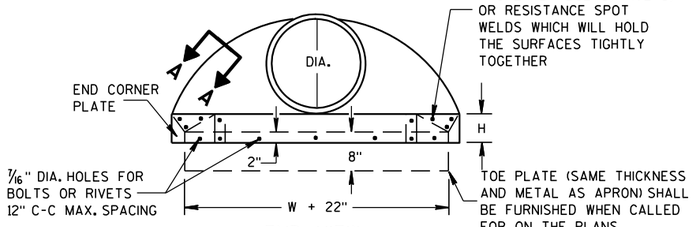
REINFORCED CONCRETE APRON ENDWALLS

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

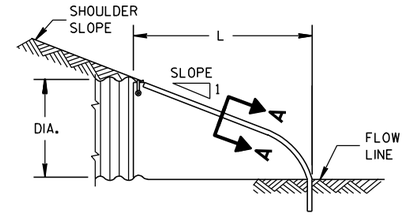
* MINIMUM
** MAXIMUM



PLAN VIEW

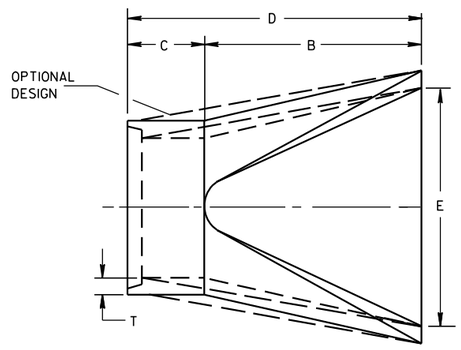


END VIEW

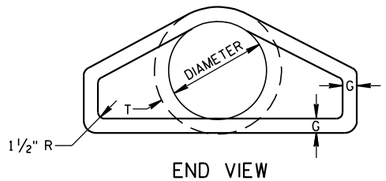


SIDE ELEVATION

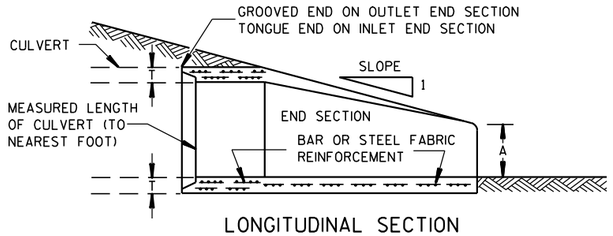
METAL ENDWALLS



PLAN

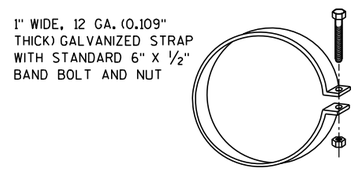


END VIEW



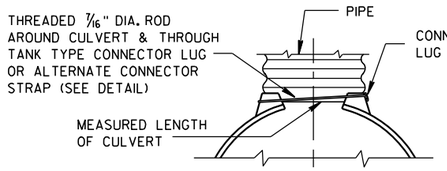
LONGITUDINAL SECTION

CONCRETE ENDWALLS

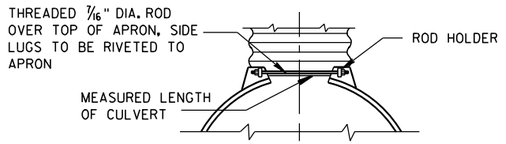


ALTERNATE FOR TYPE 1 CONNECTION

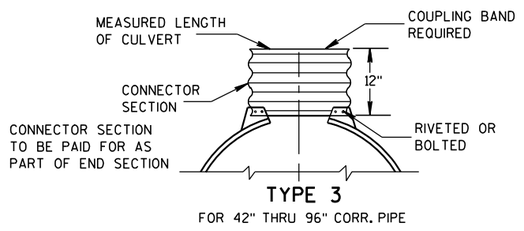
END SECTION CONNECTOR STRAP



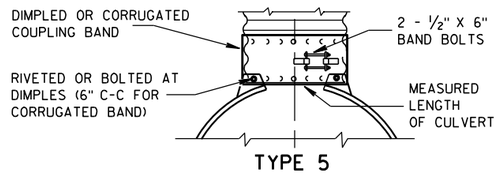
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

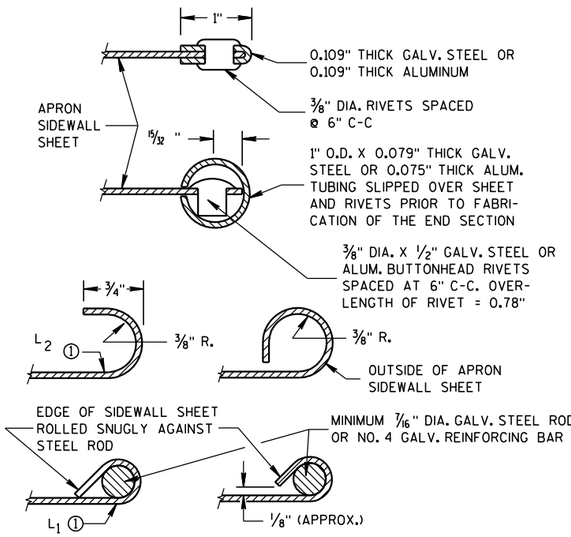
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

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

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

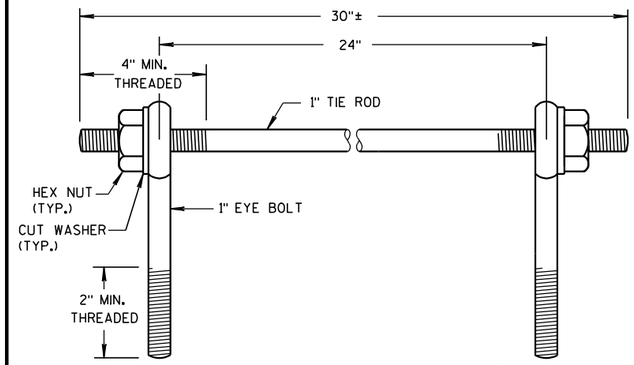
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

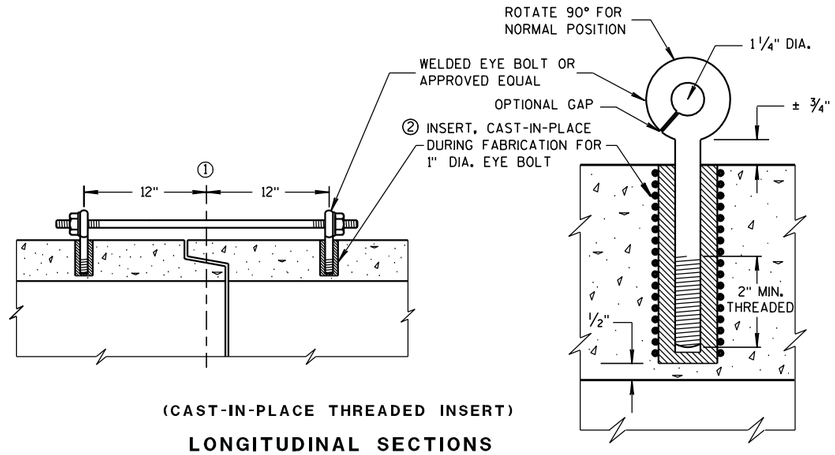
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



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.

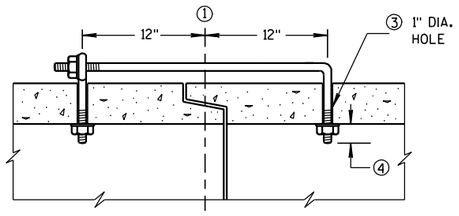
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

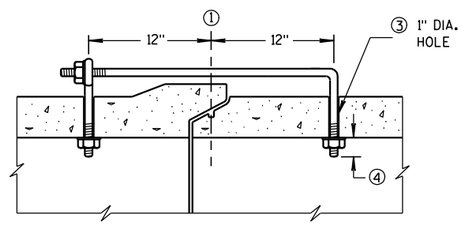
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

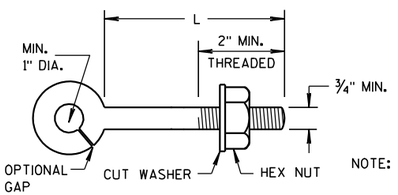


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

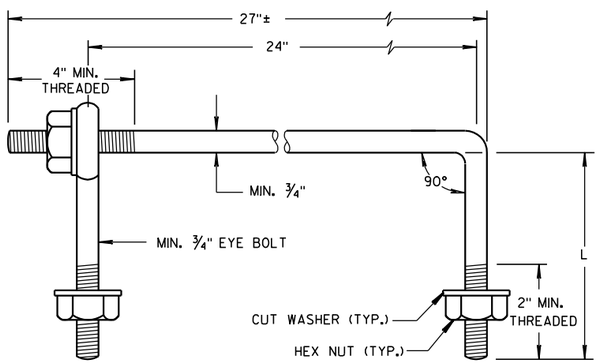
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

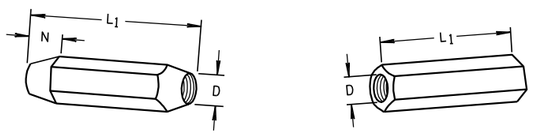
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

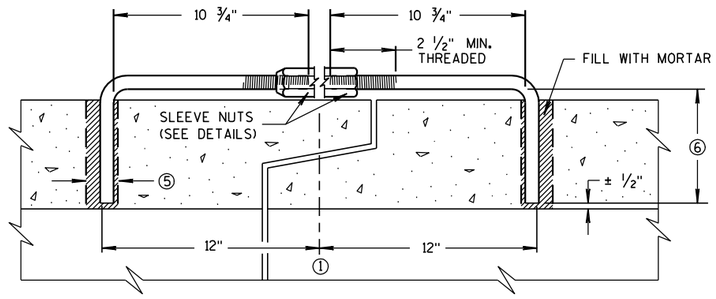
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

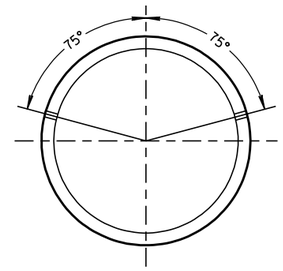
SLEEVE NUTS



LONGITUDINAL SECTION

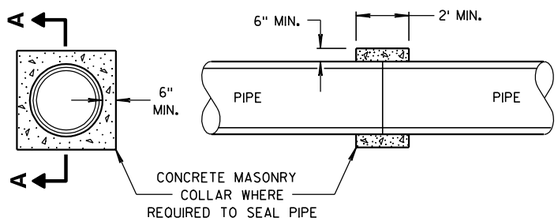
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

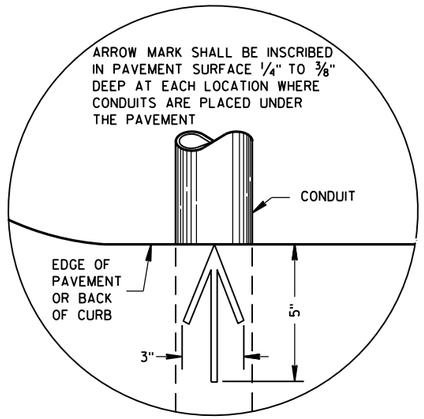
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 F 4-7

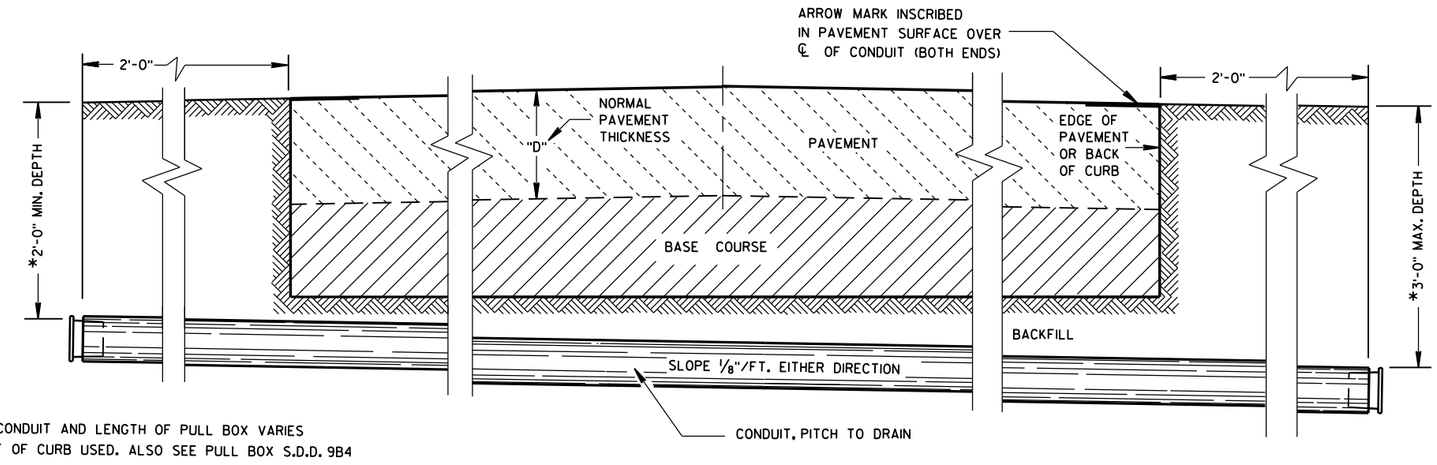
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S.D.D. 8 F 4-7



PLAN VIEW

ARROW MARK



*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

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.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		NON-CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 1/2	22 1/2
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.

** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE

GENERAL NOTES

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

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN 1/4".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

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".

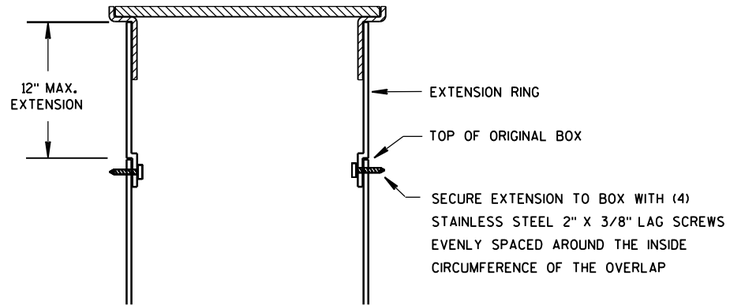
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

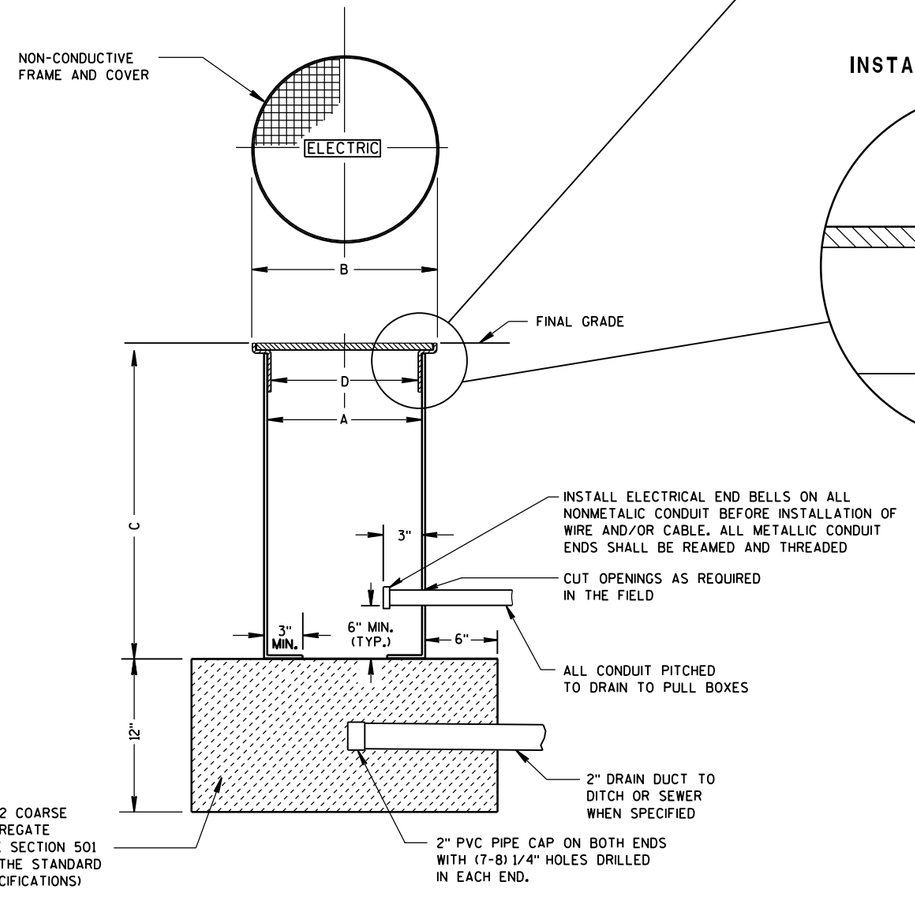
ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.

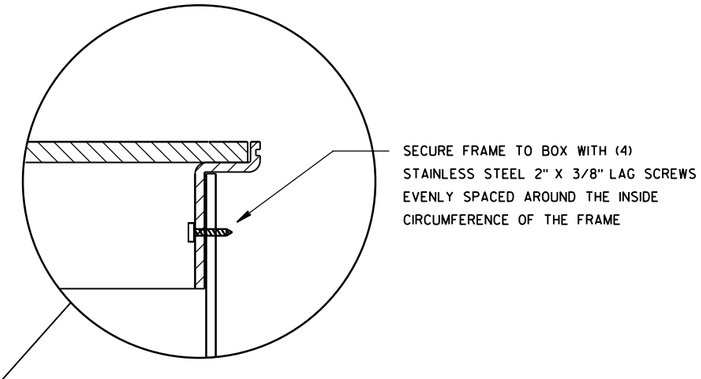


BOX EXTENSION

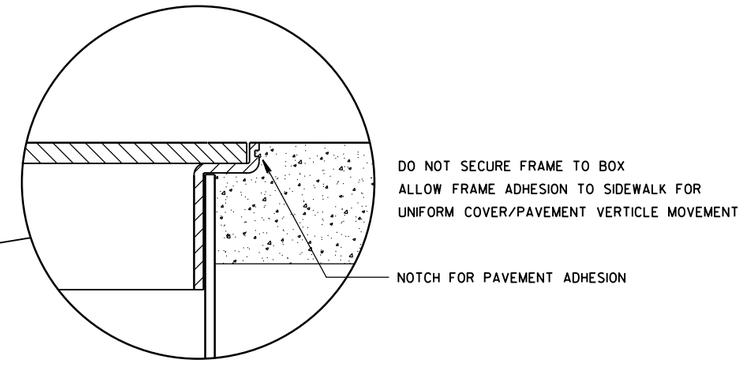


NON-CONDUCTIVE PULL BOX

INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



PULL BOX NON-CONDUCTIVE

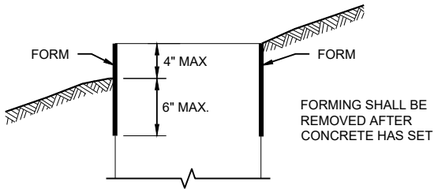
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 B 16-1

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWINGSHALL 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 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 A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X 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 NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC 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 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES 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.

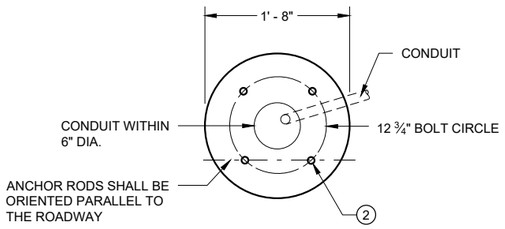
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

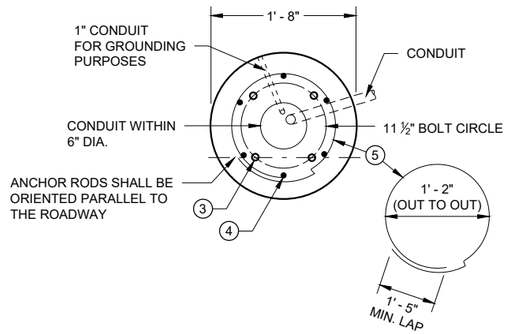
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

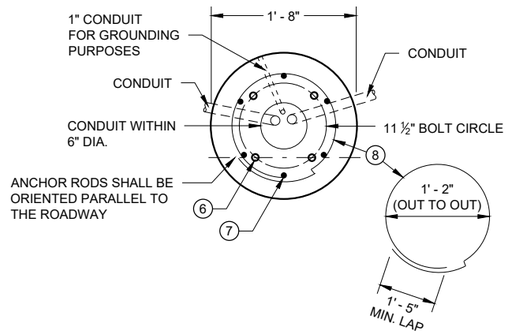
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

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 OF 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 STELL REINFORCEMENT @ 1' - 0" C -C.

(9) EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

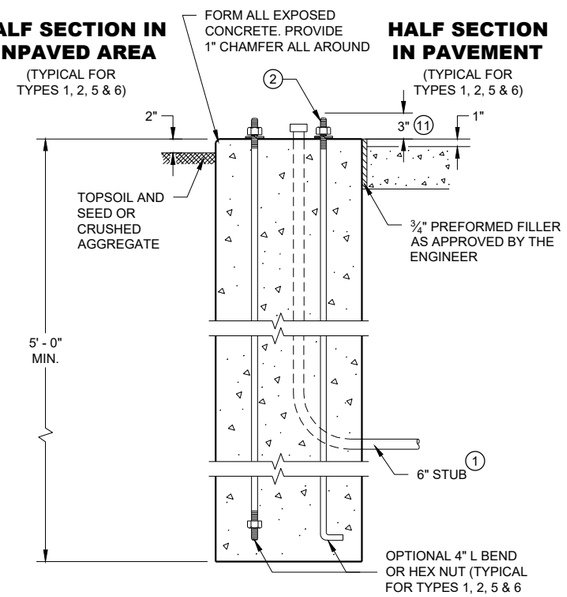
(10) ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

(11) ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

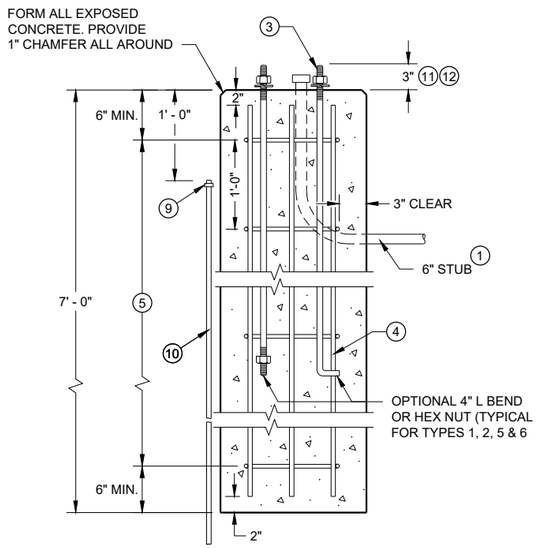
(12) FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

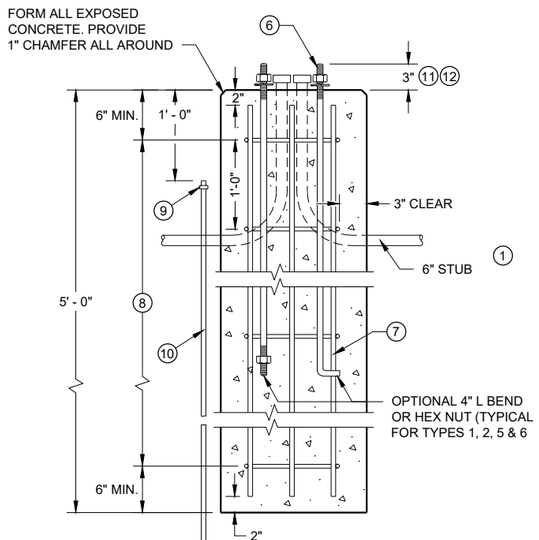
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

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SDD 09C02 - 09

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 531.2.2 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.

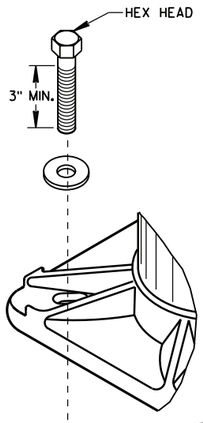
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

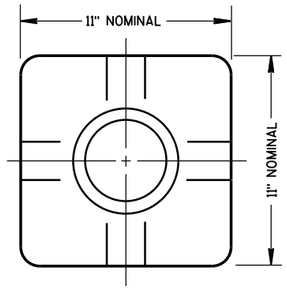
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

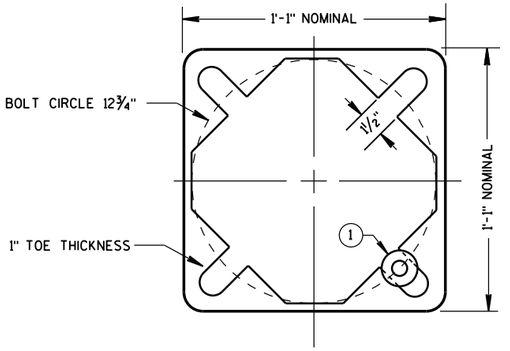
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

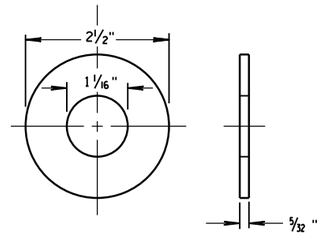




TOP VIEW
(PEDESTAL BASE)

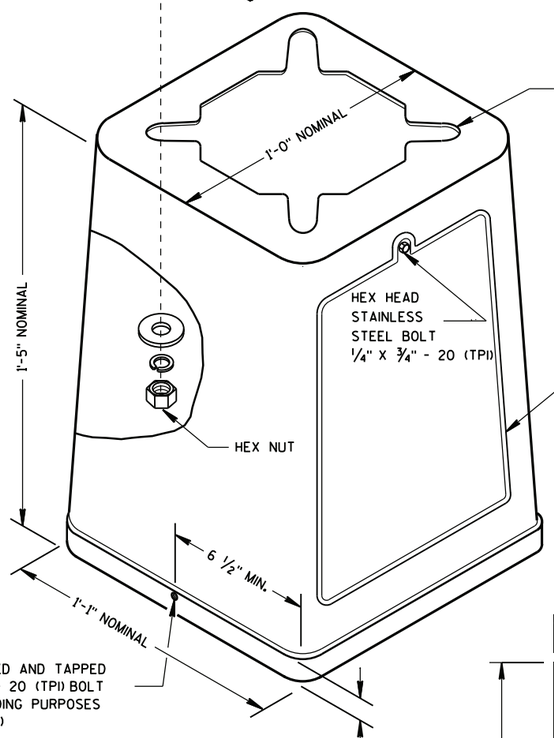


BOTTOM VIEW
(PEDESTAL BASE)

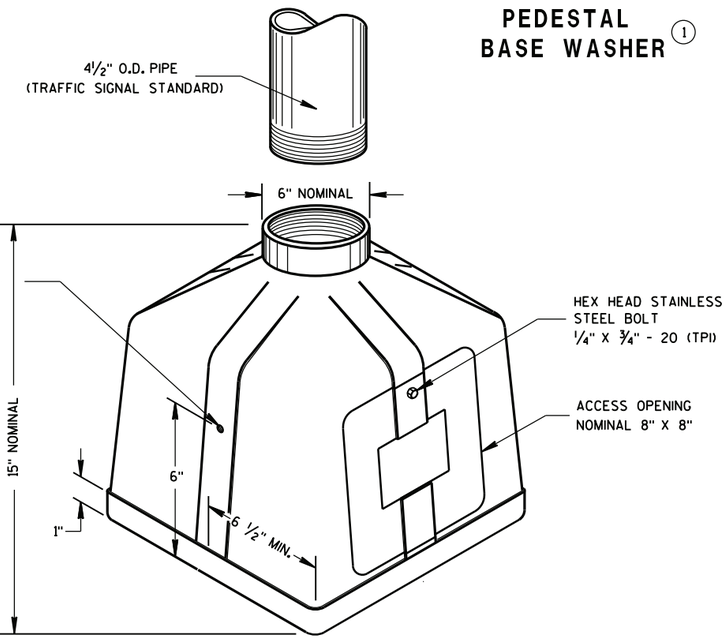


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

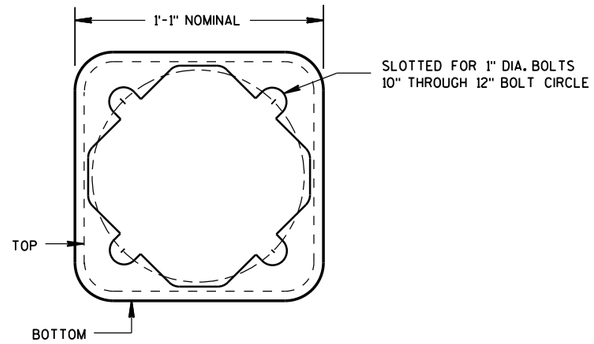
PEDESTAL BASE WASHER (1)



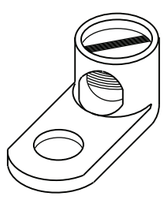
ISOMETRIC VIEW



ISOMETRIC VIEW
PEDESTAL BASE

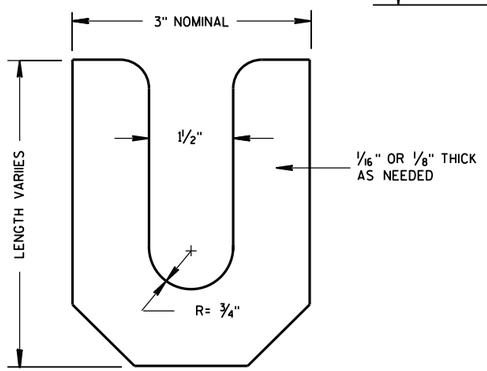


BOTTOM VIEW
(TRANSFORMER BASE)



TYPICAL MECHANICAL CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE
INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

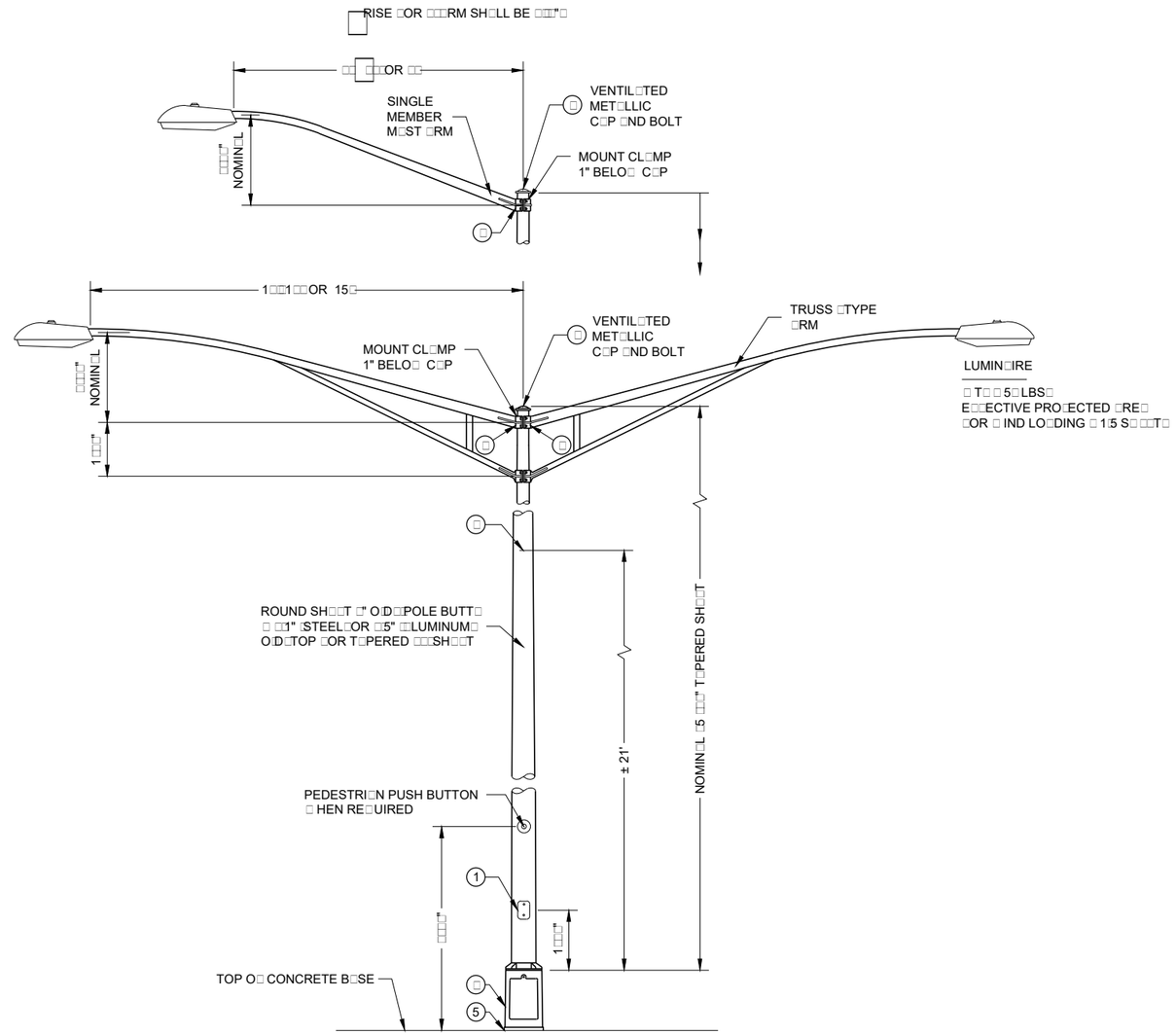
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 3-4

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S.D.D. 9 C 3-4



TYPE 6 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

GENERAL NOTES

DET□ILS O□ CONSTRUCTION□M□TERI□LS □ND □ OR□M□NSHIP NOT SHO□ N ON THIS DR□□ ING SH□LL CON□ORM TO THE PERTINENT RE□UIREMENTS O□ THE CONTR□CT□

SECTION □5□□POLES□O□ THE ST□ND□RD SPECI□IC□TIONS SH□LL □PPLY TO THIS DR□□ ING□

□LL TYPE □ POLE MOUNTINGS SH□LL BE DESIGNED TO INCLUDE T□ IN 15□□RMS □ ITH LUMIN□IRES□

POLES SH□LL BE G□LV□NI□ED STEEL OR □LUMINUM□□S C□LLED □OR IN THE CONTR□CT□

TYPE □ □LUMINUM POLES SH□LL BE CONSTRUCTED O□ □□□□ □T□ □LUMINUM □LLOY□SLEEVING INSIDE THE POLE IS NOT □CCEPT□BLE□

TYPE □ □LUMINUM POLES SH□LL H□VE □ MINIMUM □ □LL THIC□NESS O□ □□□1□"□

TYPE □ STEEL POLES SH□LL H□VE □ MINIMUM □ □LL THIC□NESS O□ U.S.ST□ND□RD 11 G□GE □□11□□"□□

THE SLIP□ITTER END O□ THE LUMIN□IRE M□ST □RM SH□LL BE □ NOMIN□L □ ⅞ INCHES IN OUTSIDE DI□METER□THE STR□IGHT PORTION O□ THE SLIP□ITTER END O□ THE LUMIN□IRE M□ST □RM SH□LL BE □ NOMIN□L 1□ INCHES IN LENGTH□

□ HEN TR□NS□ORMER B□SES □RE USED□□ IRE CONNECTIONS SH□LL BE M□DE IN THE TR□NS□ORMER B□SE□

(1) □" □ □" REIN□ORCED H□NDHOLE □ND COVER □SSEMBLY □ ITH T□ O □□□½" □ ⅞" □□□ TPI □ST□INLESS STEEL□HE□ HE□D BOLTS□

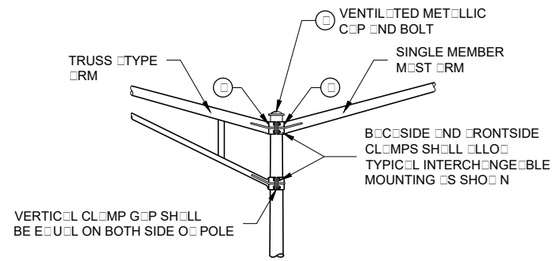
(□) GROMMETS□1" CH□SE NIPPLES OR 1" CLOSE CONDUIT NIPPLES □ ITH BUSHINGS SH□LL BE PROVIDED □OR 1 ⅞" HOLE IN POLE SH□□T □OR □ IRING□

(□) C□ST □LUMINUM TR□NS□ORMER B□SE□□ HEN RE□UIRED□

(□) □URNISH □ND INST□LL VENTIL□TED□C□ST MET□LLIC □□LUMINUM □LLOY□C□PS□□□STEN C□PS □ ITH ONE □1□½" □ ⅞" □□□ TPI ST□INLESS STEEL□HE□ HE□D BOLT□

(5) SHIMMING□I□ NEEDED□SH□LL BE LOC□TED BET□ EEN THE CONCRETE □OUND□TION □ND POLE□

(□) INTERN□L DUMBBELL □TYPE VIBR□TION D□MPER□



INTERCHANGEABLE MOUNTING DETAIL

POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 6 (35 FEET)

ST□TE O□ □ ISCONSIN
DEP□RTMENT O□ TR□NSPORT□ 193

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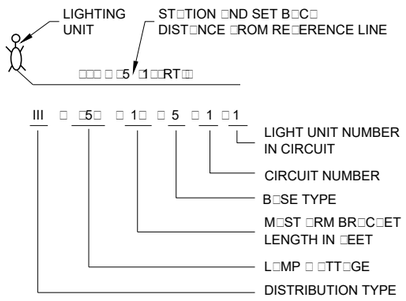
SDD 09E01 - 15e

GENERAL NOTES

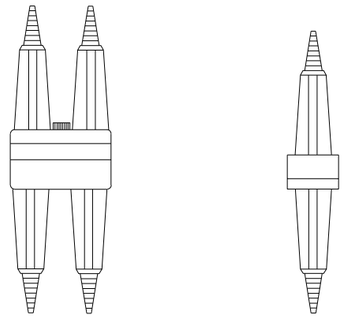
DET□ILS O□ CONSTRUCTION□ M□TERI□LS □ND □ OR□M□NSHIP NOT SHO□ N ON THIS DR□□ ING SH□LL CON□ORM TO THE PERTINENT RE□UIREMENTS O□ THE CONTR□CT□

THE E□UIPMENT GROUND CONNECTOR SH□LL BE T□PED □ ITH □ □ R□PS □MINIMUM□O□ □PPROVED RUBBER T□PE □ND □ □ R□PS □MINIMUM□O□ □PPROVED VINYL T□PE TO COVER SH□RP □ IRE ENDS □□TER THE CONNECTION IS COMPLETED□

□ HEN TR□NS□ORMER B□SES □RE USED□□LL □ IRING CONNECTIONS SH□LL OCCUR □ ITHIN THE TR□NS□ORMER B□SES□

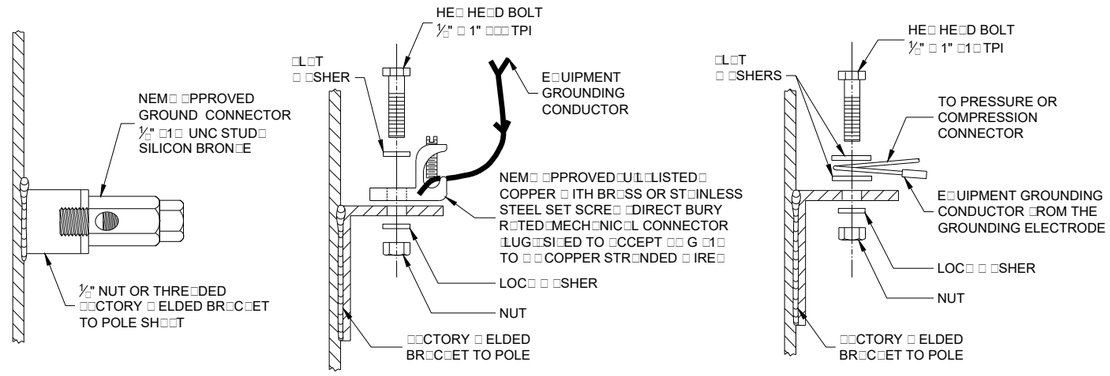


LIGHTING UNIT CODE
(TYPICAL)

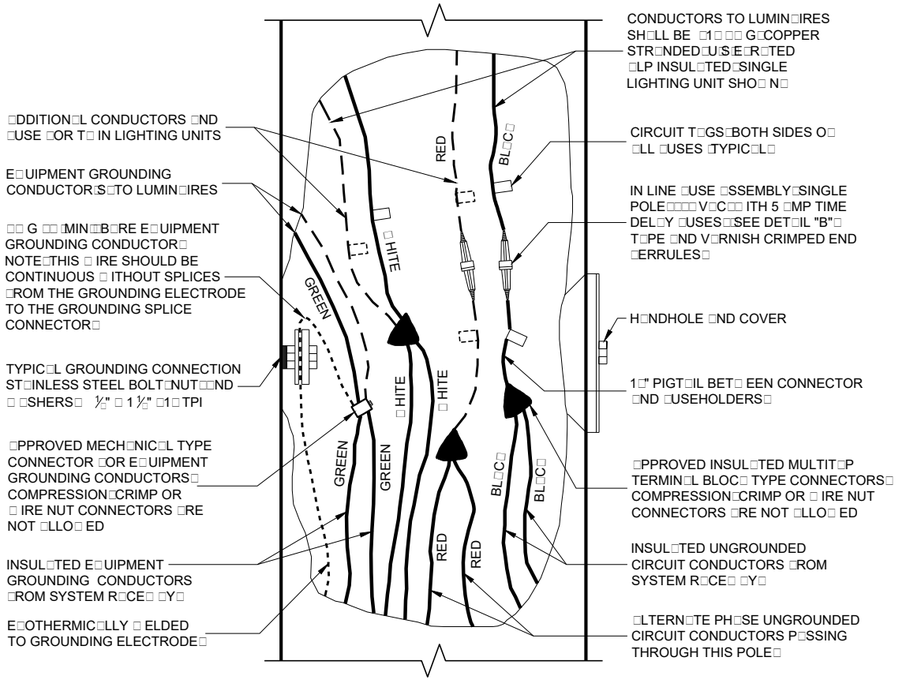


DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT

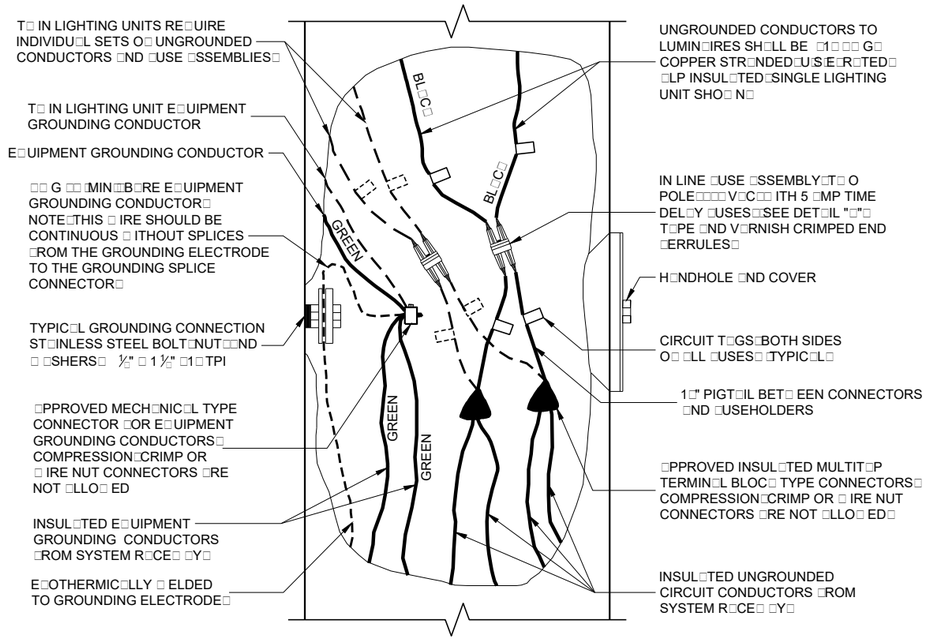
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT□ BOLT □ND □ □SHERS SH□LL BE ST□INLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

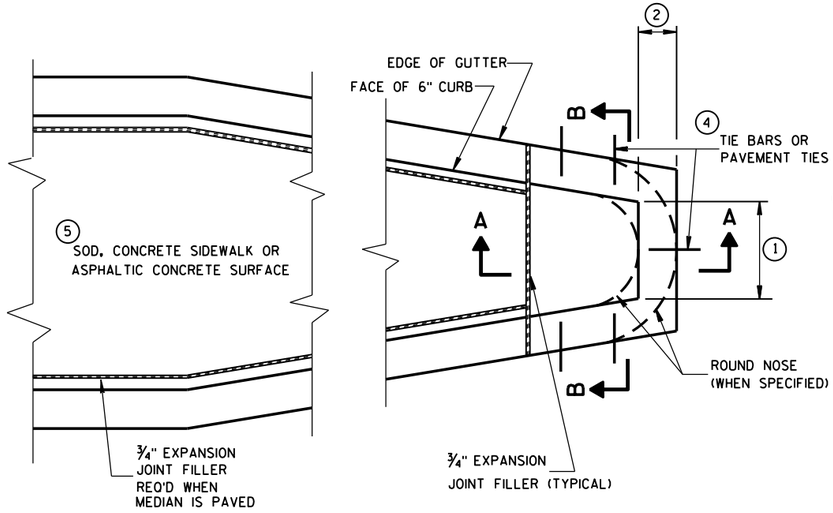
NON - FREEWAY LIGHTING UNIT POLE WIRING

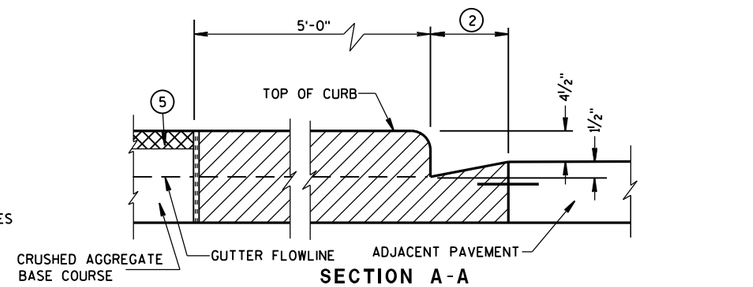
ST□TE O□ □ ISCONSIN
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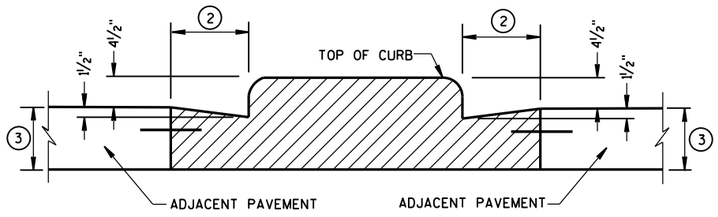
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ST□TE ELECTRIC□L ENGI

SDD 09E03 - 06

SDD 09E03 - 06







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.

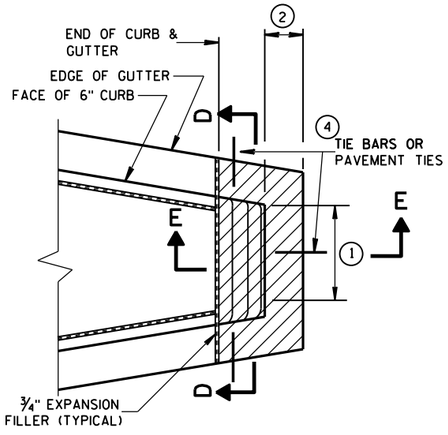
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

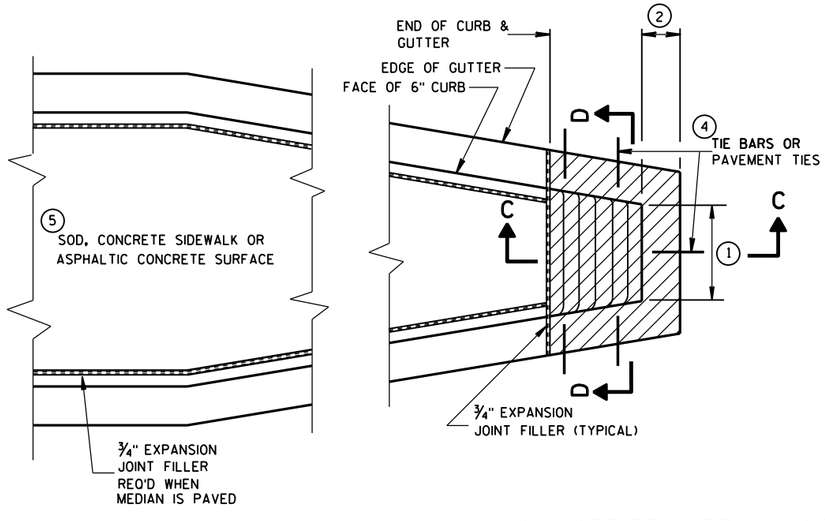
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

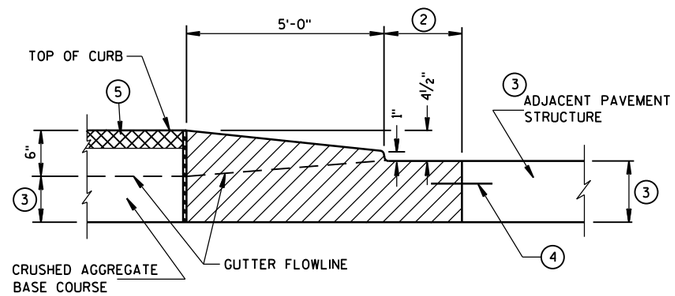
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

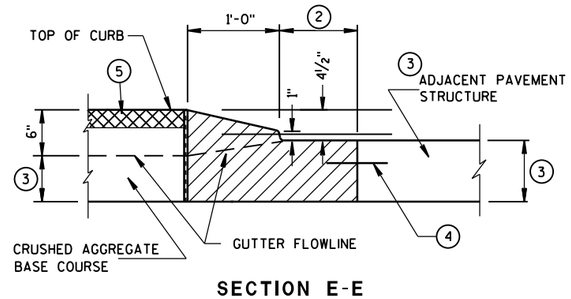
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



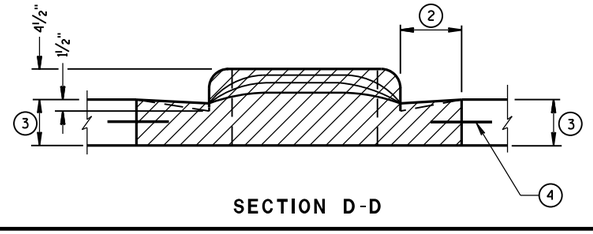






CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

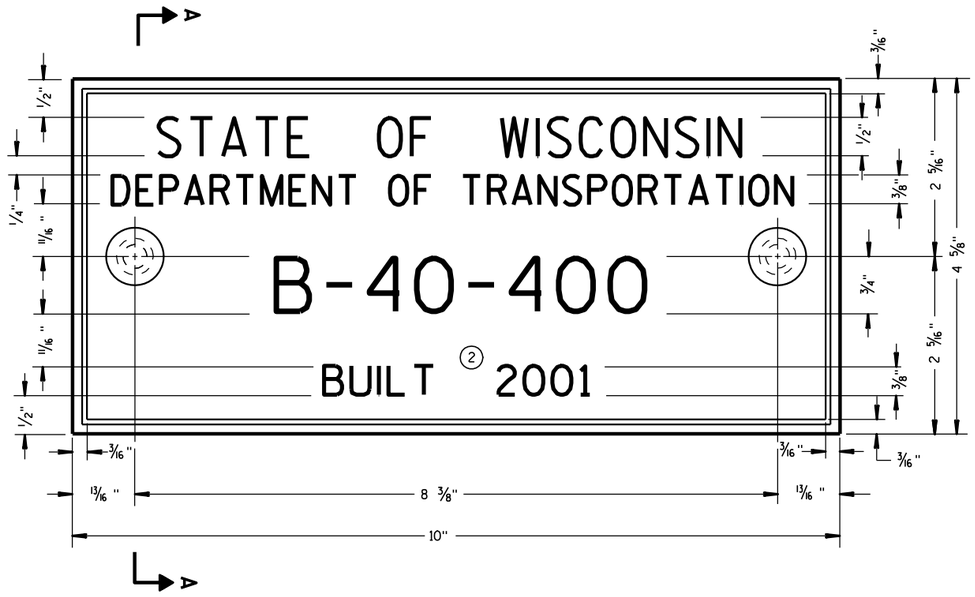
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

6

S.D.D. 11 B 2-2

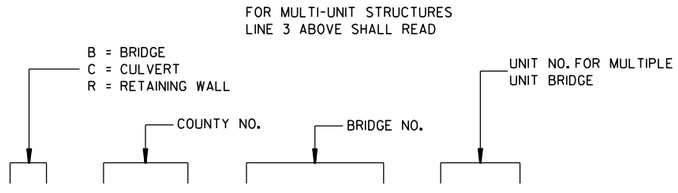
6

S.D.D. 11 B 2-2



TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

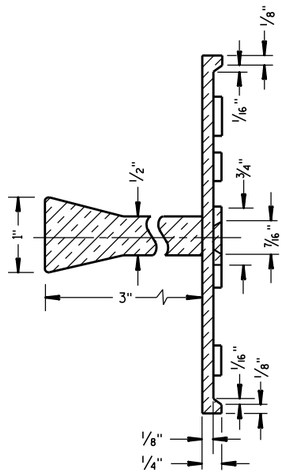
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

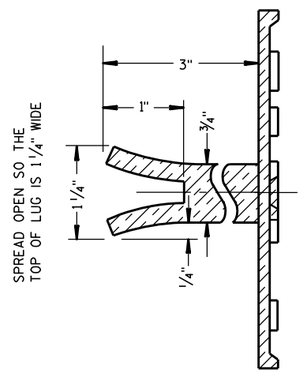
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

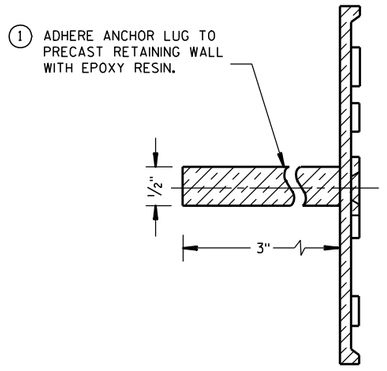
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

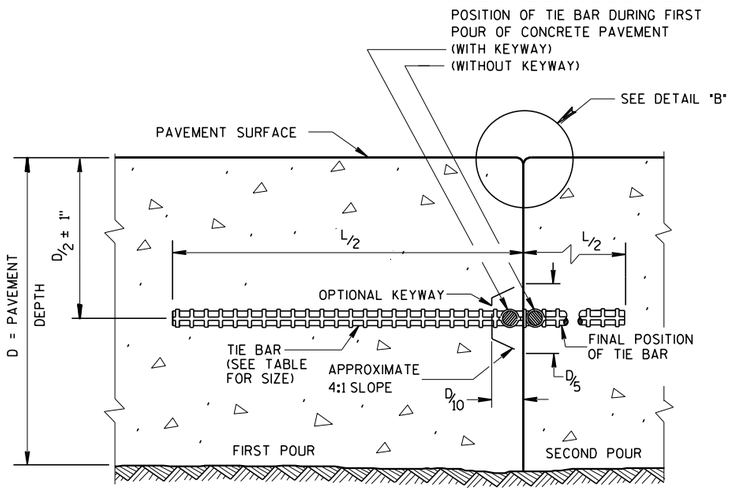
NAME PLATE (STRUCTURES)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
3/26/10 DATE	/S/ Scot Beck -- CHIEF STRUCTURAL DEVELOP 196 ENGINEER
FHWA	

6

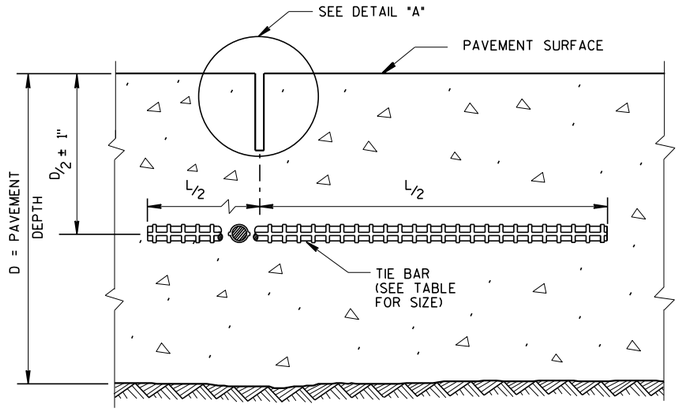
S.D.D. 12 A 3-10

6

S.D.D. 12 A 3-10



CONSTRUCTION JOINT



SAWED JOINT

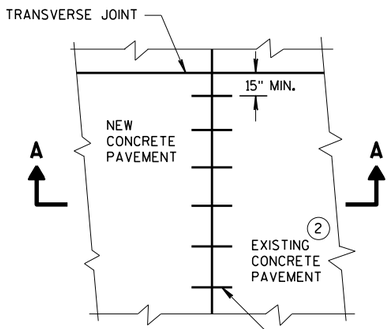
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

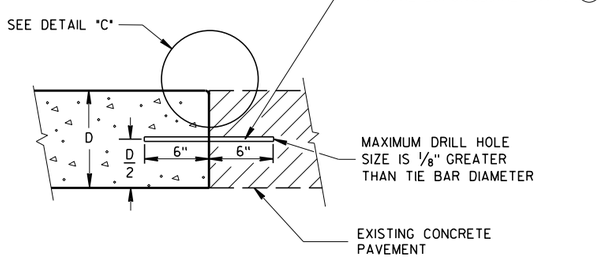
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

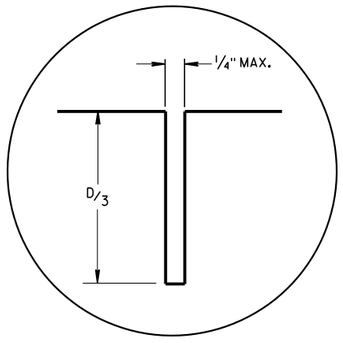


PLAN VIEW

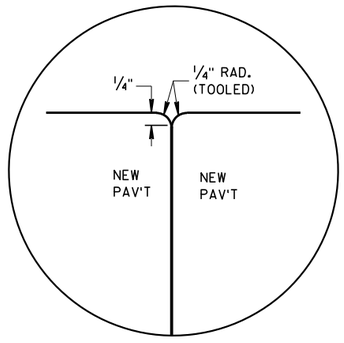


SECTION A-A

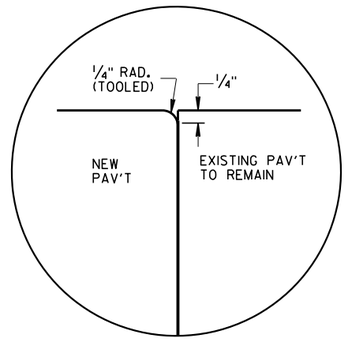
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



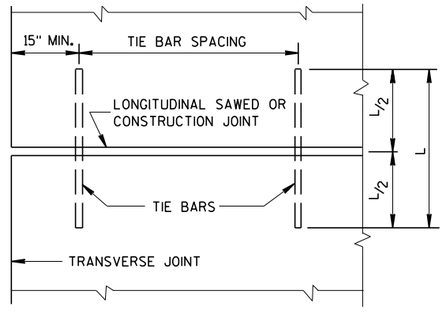
DETAIL "C"

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

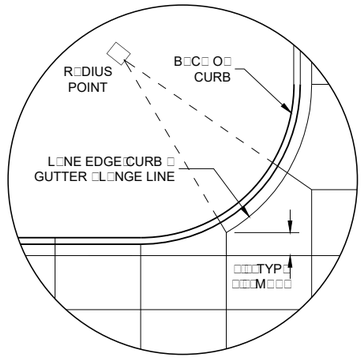
APPROVED
March 2018 — DATE
/S/ Peter Kemp PE — PAVEMENT SUPE
FHWA

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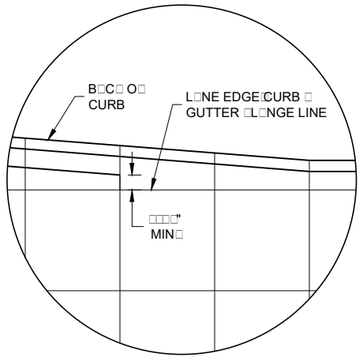
S.D.D. 13 C 1-19

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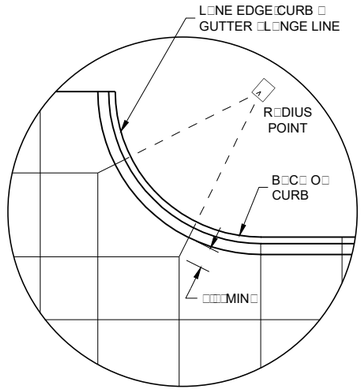
S.D.D. 13 C 1-19



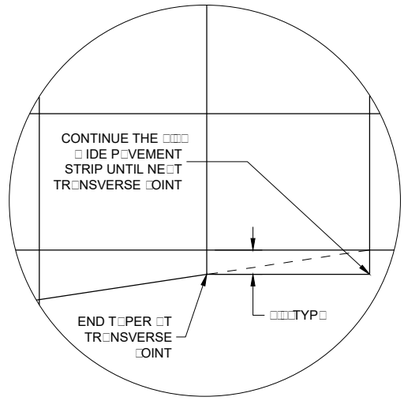
DETAIL "A"



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.

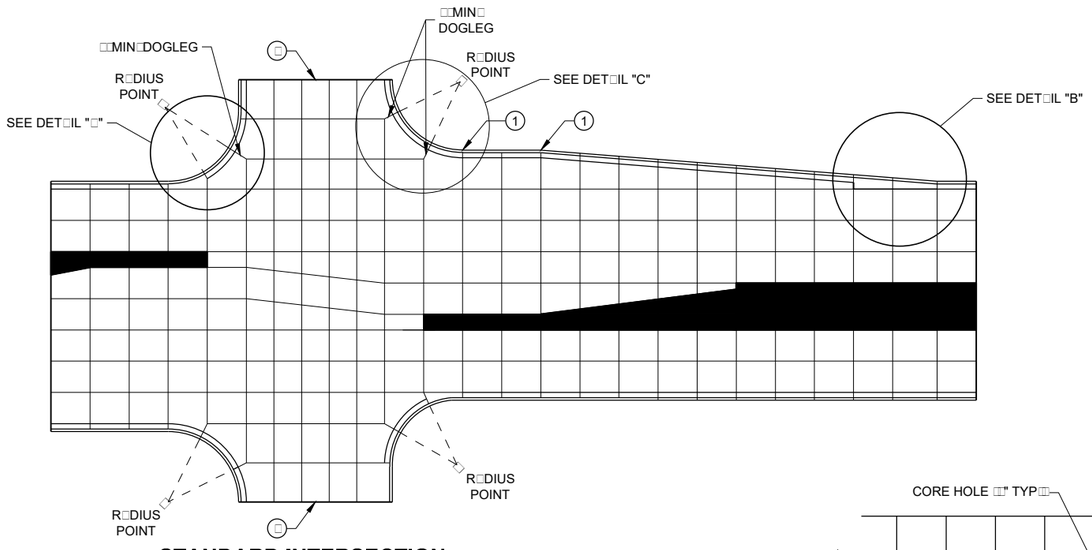
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORREL□TE LONGITUDIN□L □OINTS □ ITH L□NE LINES □ HEN POSSIBLE□

(1) PROVIDE TR□NSVERSE □OINTS □T □LL P□VEMENT □ IDTH CH□NGES□

(□) CONSTRUCT DO□ ELED E□P□NSION □OINT ON THE SIDE RO□D O□ □N INTERSECTION I□ THE SIDE RO□D IS CONCRETE P□VEMENT □ND GRE□TER TH□N □□□ □EET IN LENGTH□□LIGN E□P□NSION □OINT □ ITHEDGE O□ R□DIUS□

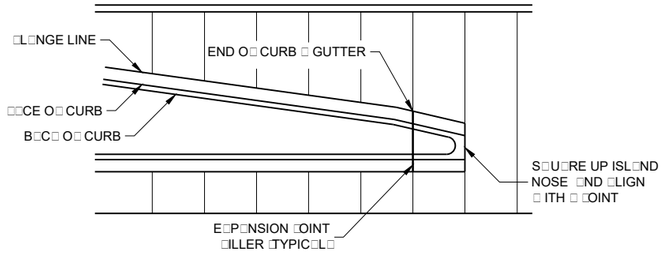
(□) THE ENGINEER M□Y □PPROVE SLIGHT V□RI□TIONS □ROM THESE □OINTING DET□ILS□



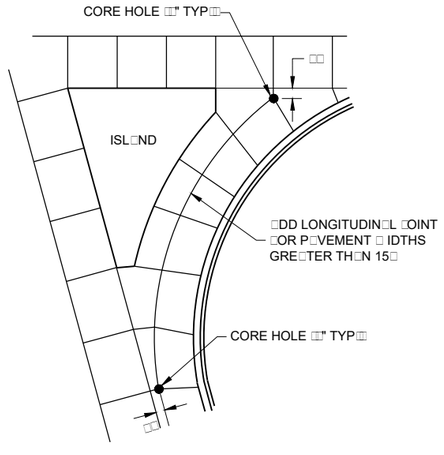
STANDARD INTERSECTION

P□VEMENT DEPTH □ND □OINT SP□CING T□BLE

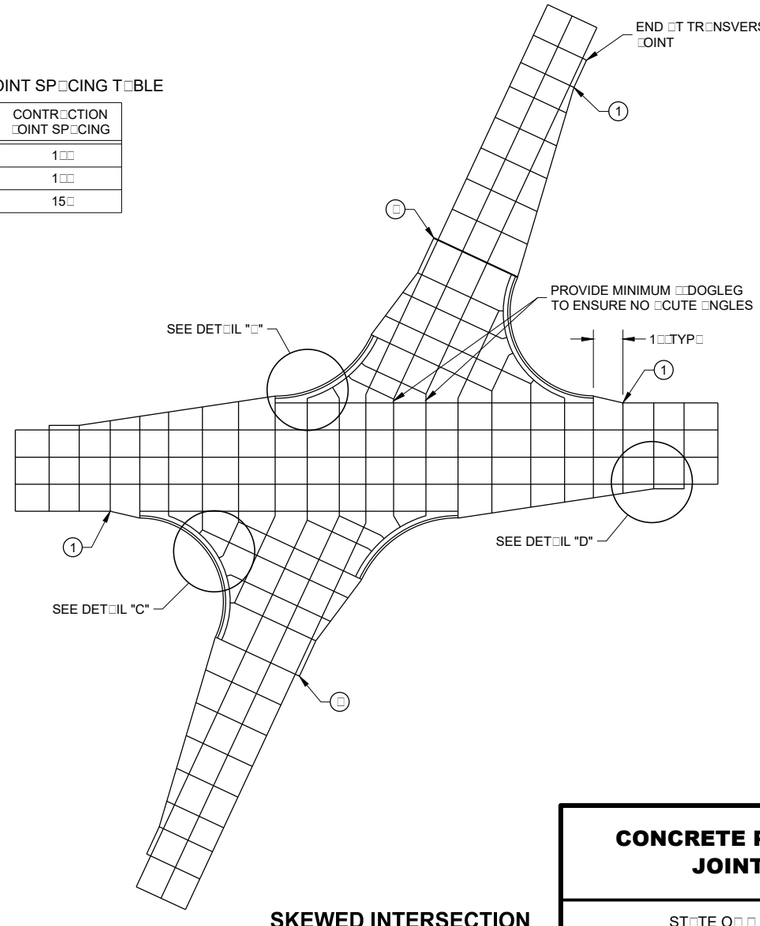
P□VEMENT DEPTH □D□	CONTR□CTION □OINT SP□CING
□"□□½"	1□□
□"□□½"	1□□
□" □ □BOVE	15□



APPROACH TO MEDIAN



LARGE RIGHT TURN



SKEWED INTERSECTION

CONCRETE PAVEMENT JOINTING

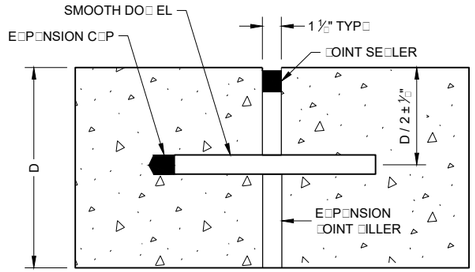
ST□TE O□ □ ISCONSIN
DEP□RTMENT O□ TR□NSPORT□T

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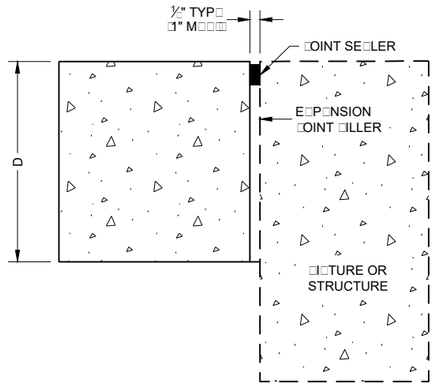
SDD 13C18 - 07a

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SDD 13C18 - 07a



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

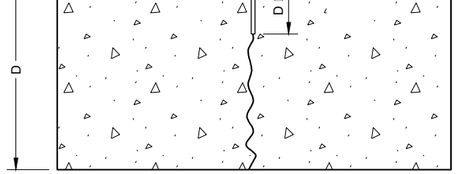
P□VEMENT DEPTH □D□	TIE B□R SI□E	TIE B□R LENGTH □L□	M□□□ TIE B□R SP□CING
□ 1□½"	NO□□	□□"	□□"
≥ 1□½"	NO□5	□□"	□□"
	NO□□ □	□□"	□□" □□

□SUBSTITUTE BENT B□RS □T LONGITUDIN□L □OINTS □ HEN E□UIPMENT LIMIT□TIONS DURING CONSTRUCTION □ □RR□NT □□□□□U□ILI□RY L□NES OR TURN L□NES□

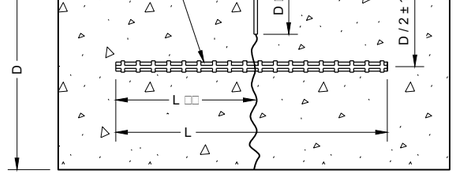
□□CON□ORM TO 15" MINIMUM SP□CING □ROM TR□NSVERSE □OINTS□SP□CING BET□ EEN TIE B□RS □ ILL BE □□" □T TR□NSVERSE □OINTS□

GENERAL NOTES

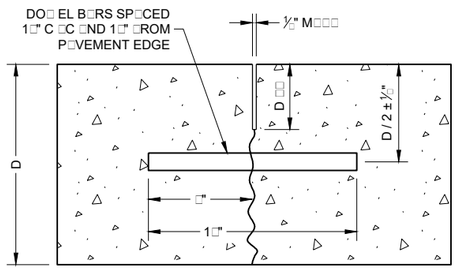
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM 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 ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

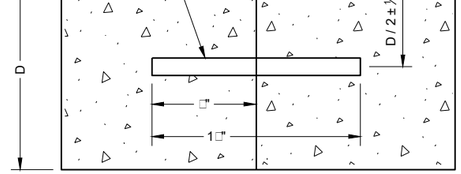


TIED LONGITUDINAL

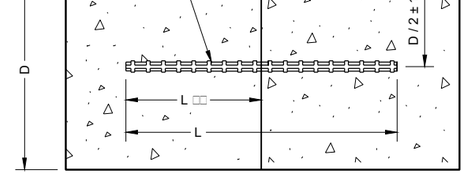


DOWELED TRANSVERSE

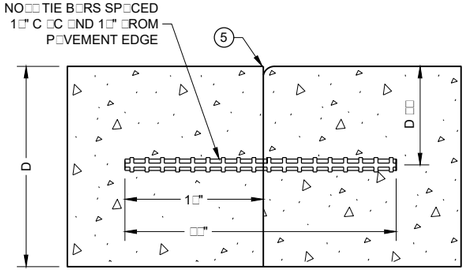
CONTRACTION JOINTS (□)



DOWELED TRANSVERSE (□)

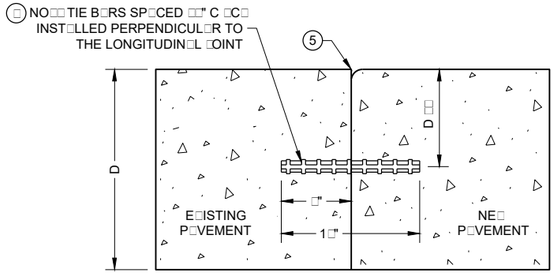


TIED LONGITUDINAL



TIED TRANSVERSE (□)

□□OR USE ON NON□DO□ ELED P□VEMENTS ONLY□



TIED LONGITUDINAL TO EXISTING

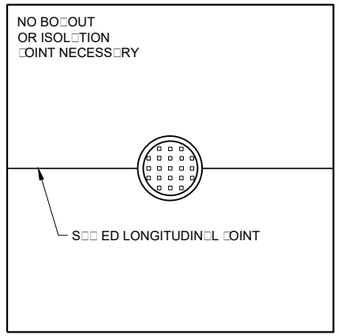
CONSTRUCTION JOINTS (□)

CONCRETE PAVEMENT JOINT TYPES

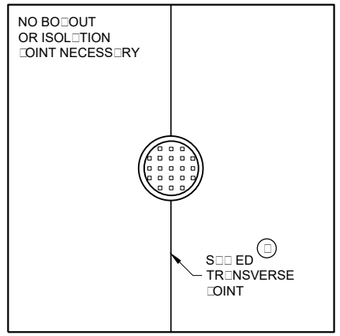
ST□TE O□ □ ISCONSIN
DEP□RTMENT O□ TR□NSPORT□TION

6

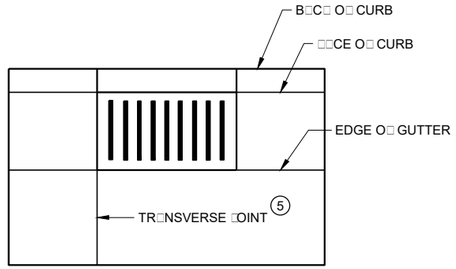
SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



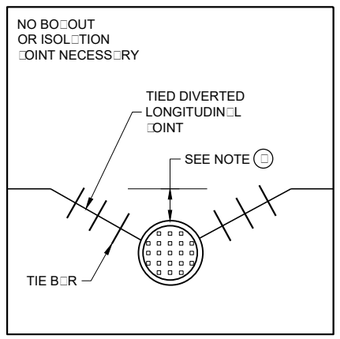
MANHOLE WITH TRANSVERSE JOINT



INLET WITH TRANSVERSE JOINT

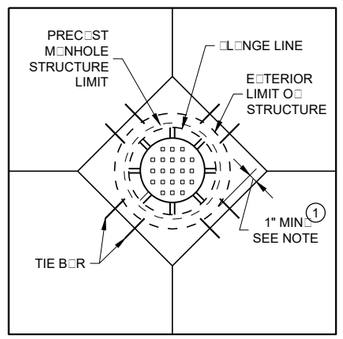
GENERAL NOTES

1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT

MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

ST□TE O□ □ ISCONSIN
DEP□RTMENT O□ TR□NSPORT□TION

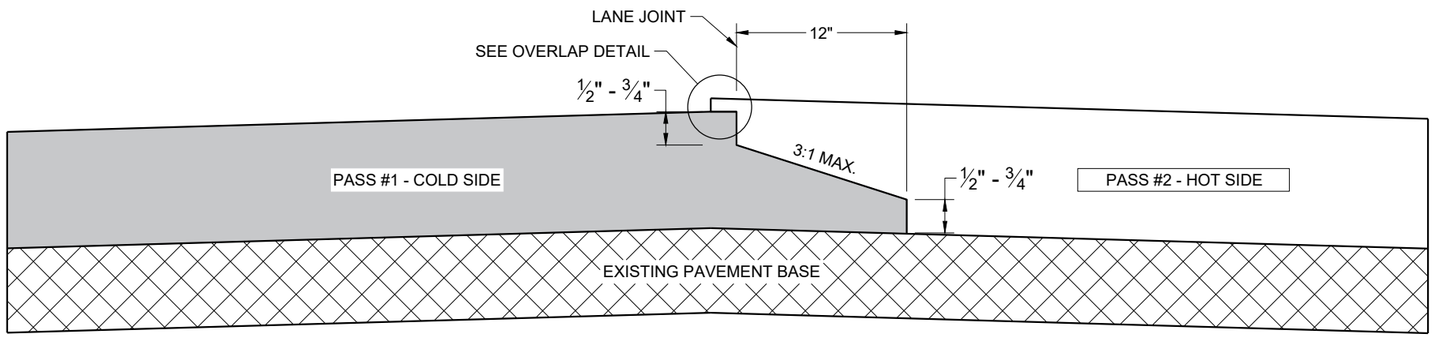
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N□□□□ □□r □□1□ D□TE
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□H□□

SDD 13C18 - 07d

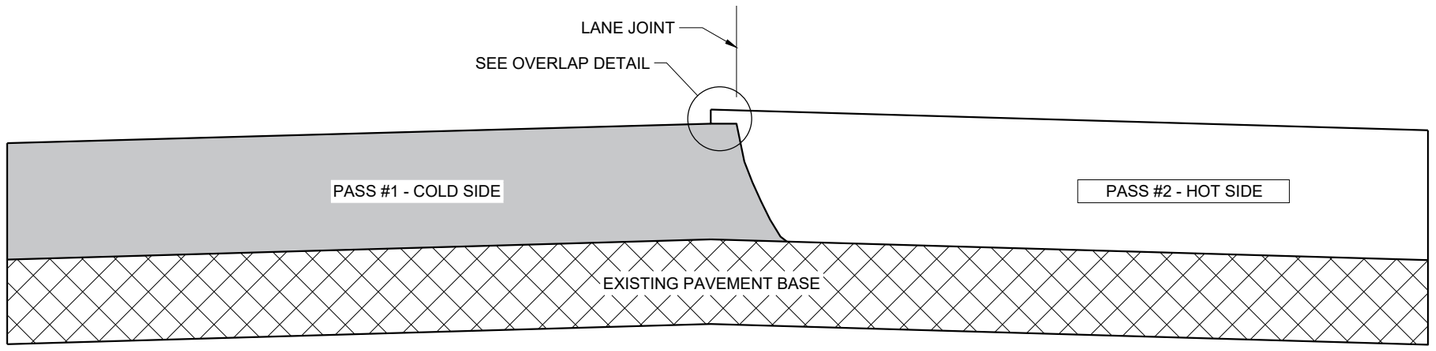
SDD 13C18 - 07d

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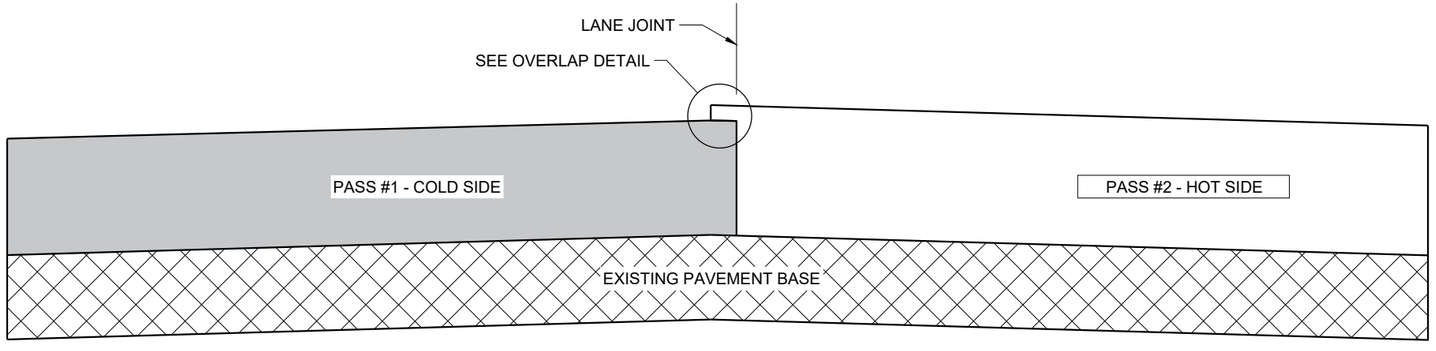
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TYPICAL PAVEMENT CROSS SECTION
OF NOTCHED WEDGE LONGITUDINAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL LONGITUDINAL JOINT



TYPICAL PAVEMENT CROSS SECTION
OF MILLED LONGITUDINAL JOINT

GENERAL NOTES

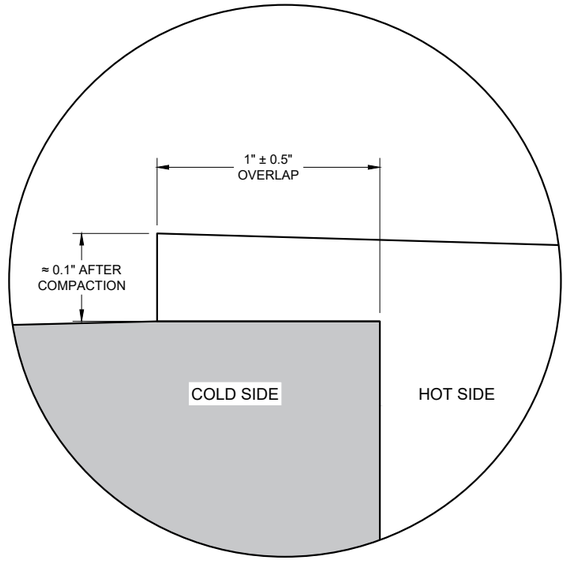
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION.

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

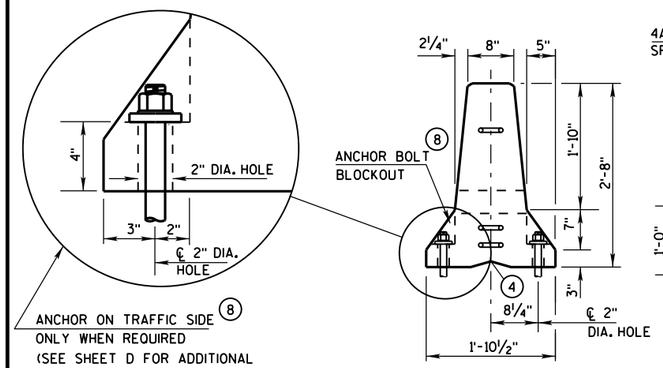
APPROVED
February 2020
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

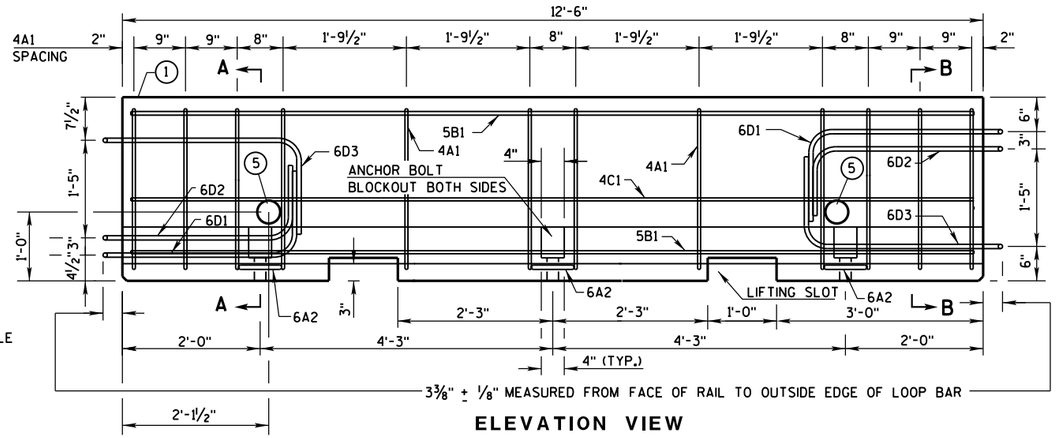
FHWA

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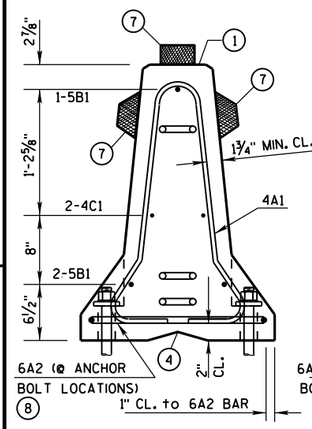
SDD 13C19 - 02



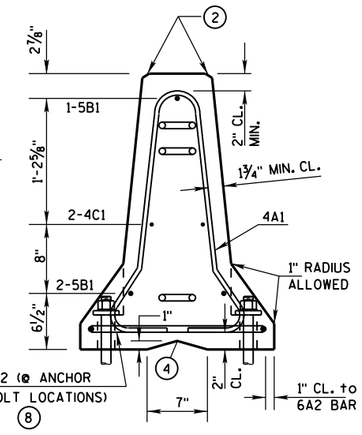
END VIEW



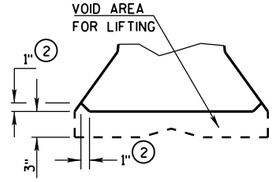
ELEVATION VIEW



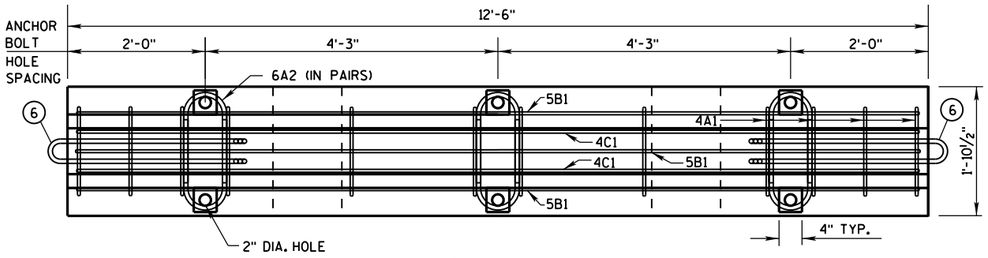
SECTION A-A
(STIRRUP PLACEMENT)



SECTION B-B
(STIRRUP PLACEMENT)

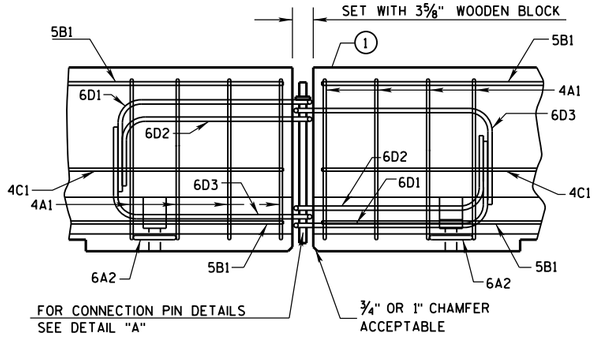


DETAIL "B"
LIFTING SLOT DETAIL

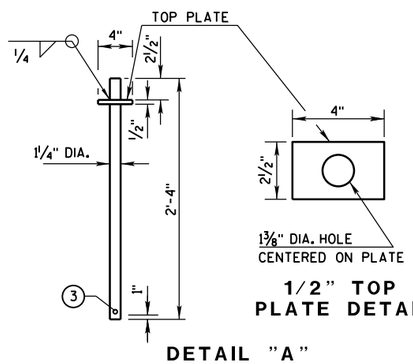


PLAN VIEW

DETAILS OF BARRIER SECTION

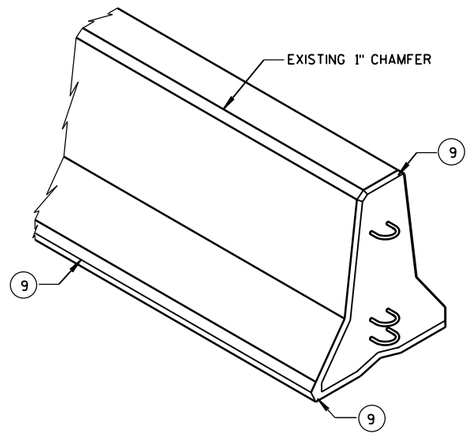


DETAILS OF BARRIER CONNECTION



1/2" TOP
PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-15(a) THRU 14B7-15(i).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

(8) SEE SHEET D FOR HOW TO ANCHOR BARRIER. SEE SHEET E FOR WHEN TO ANCHOR BARRIER.

(9) 1" CHAMFER OPTIONAL.

f'c = 4,000 psi

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

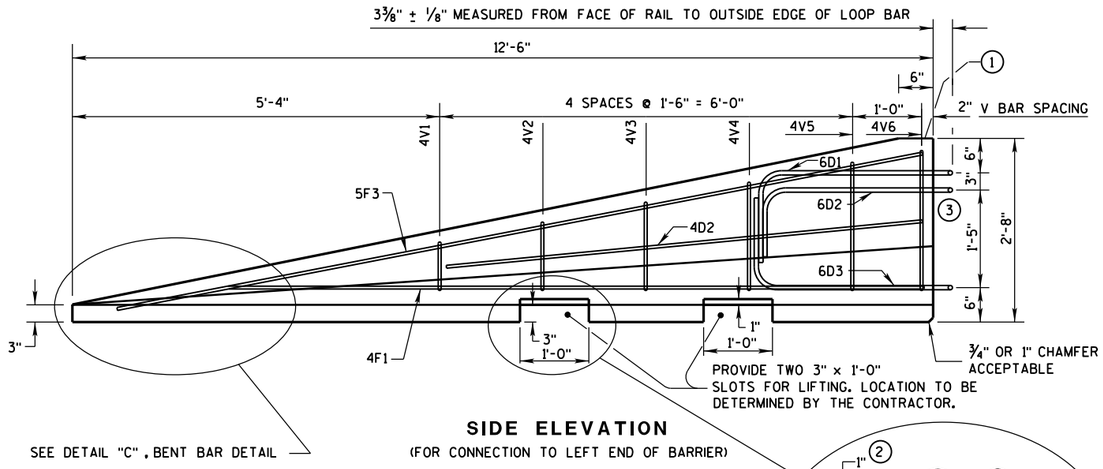
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 202

6

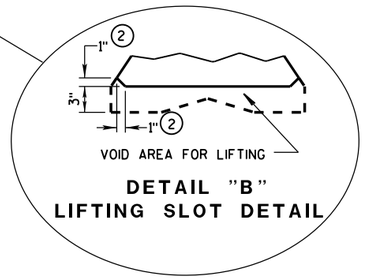
S.D.D. 14 B 7-15a

6

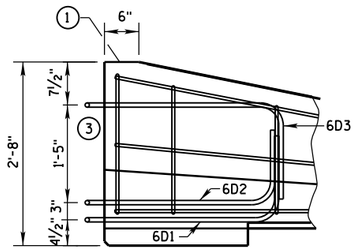
S.D.D. 14 B 7-15a



SIDE ELEVATION
(FOR CONNECTION TO LEFT END OF BARRIER)



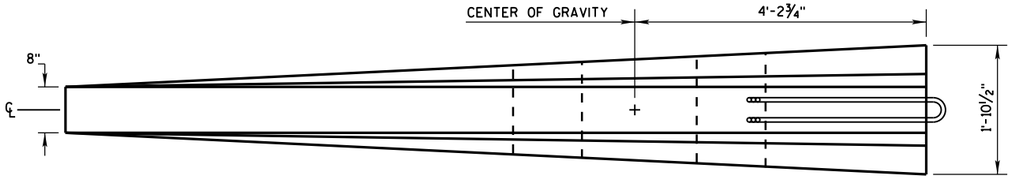
DETAIL "B"
LIFTING SLOT DETAIL



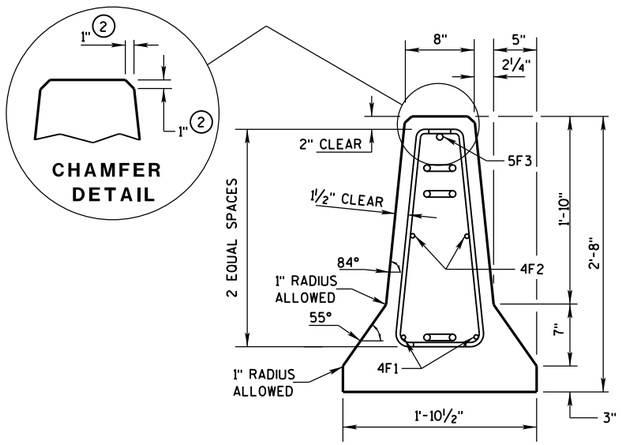
SIDE ELEVATION
LOOP BAR ASSEMBLY INVERTED
FOR OPPOSITE END.
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

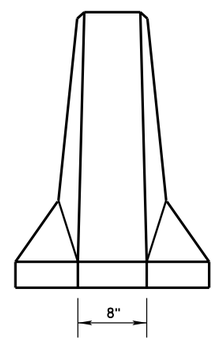
1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.



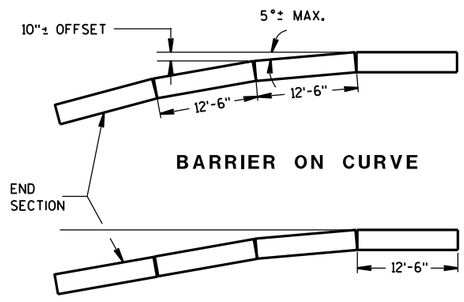
PLAN VIEW



END SECTION



FRONT ELEVATION



BARRIER ON CURVE

FLARE AT BARRIER END

POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

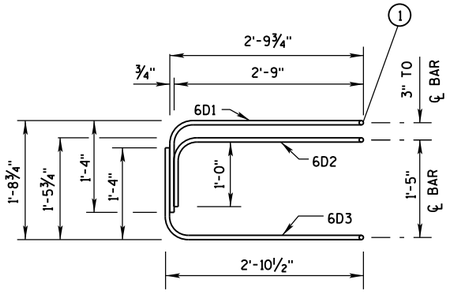
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S.D.D. 14 B 7-15b

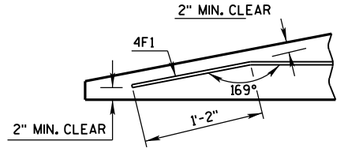
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

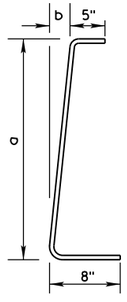
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

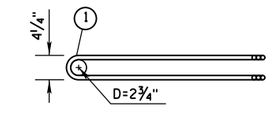
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

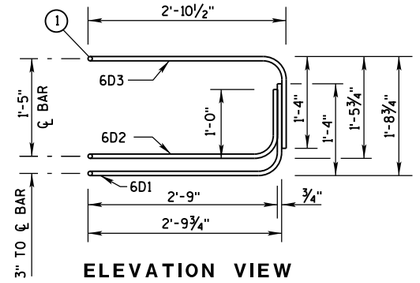
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

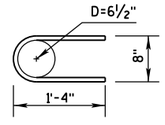
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



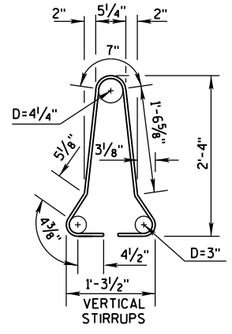
PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



ELEVATION VIEW



6A2



4A1

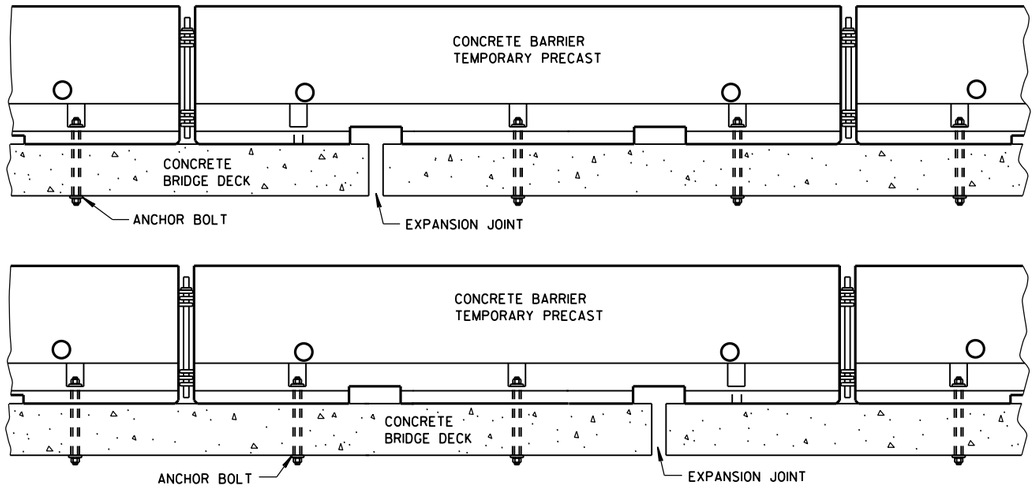
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 7-15c



TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)

GENERAL NOTES

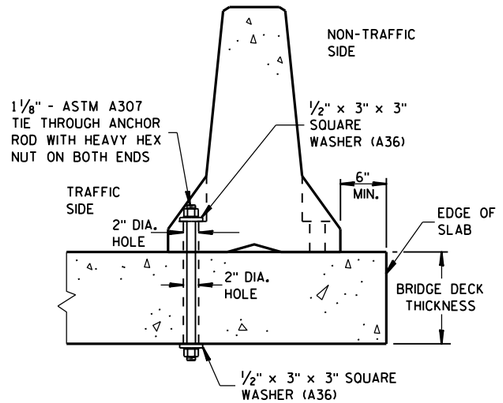
SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(1) 1⅛" DIAMENTER A307 THREADED ROD. ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL. ASTM A563A HEAVY HEX NUT.

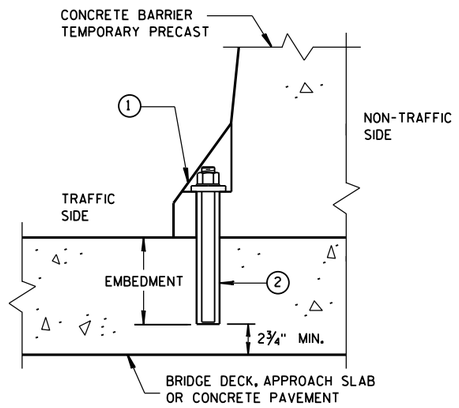
(2) ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.

(3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



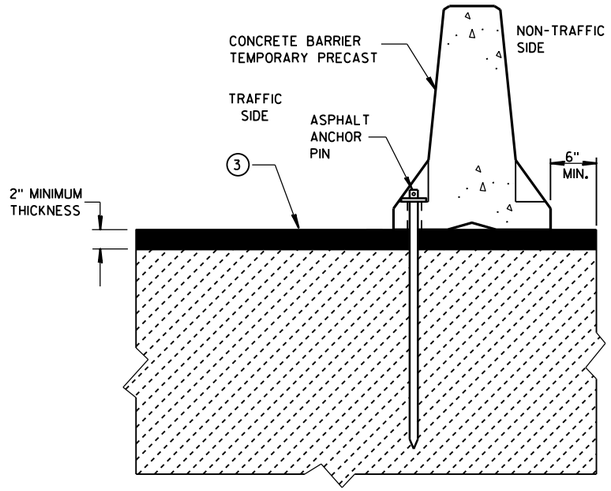
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

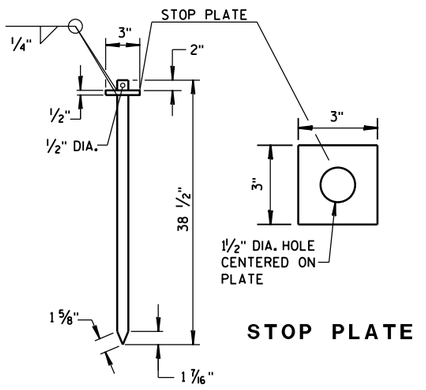


REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



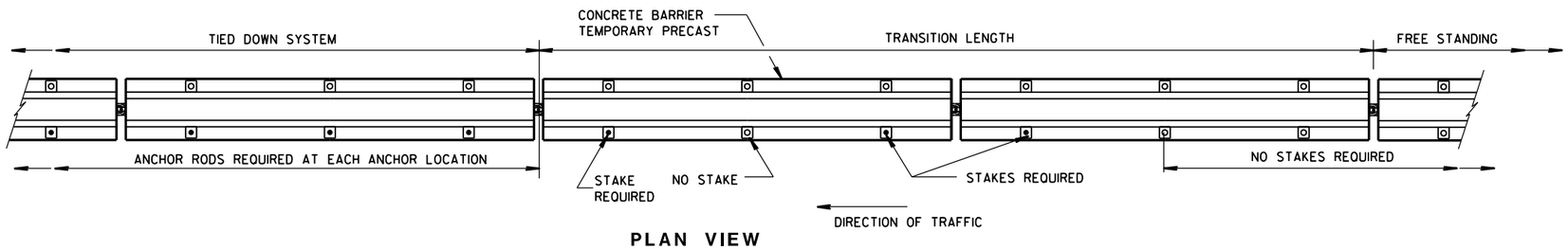
STAKE DOWN INSTALLATION FOR ASPHALTIC SURFACE



STOP PLATE

ASPHALT ANCHOR PIN

(ASTM A36 STEEL)



PLAN VIEW

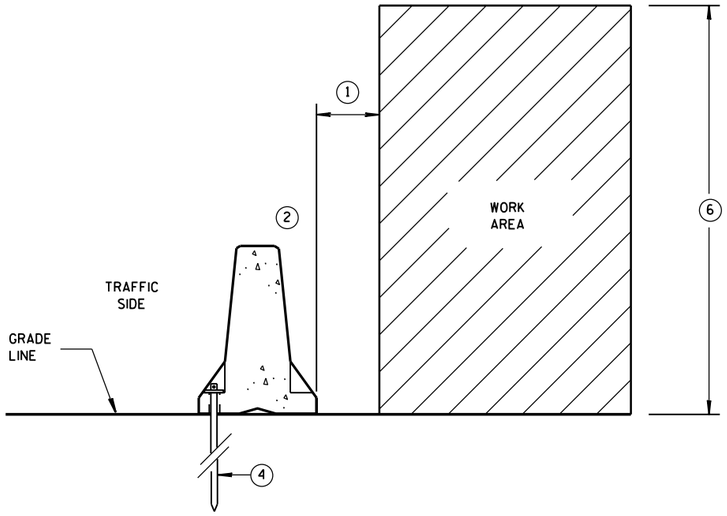
FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

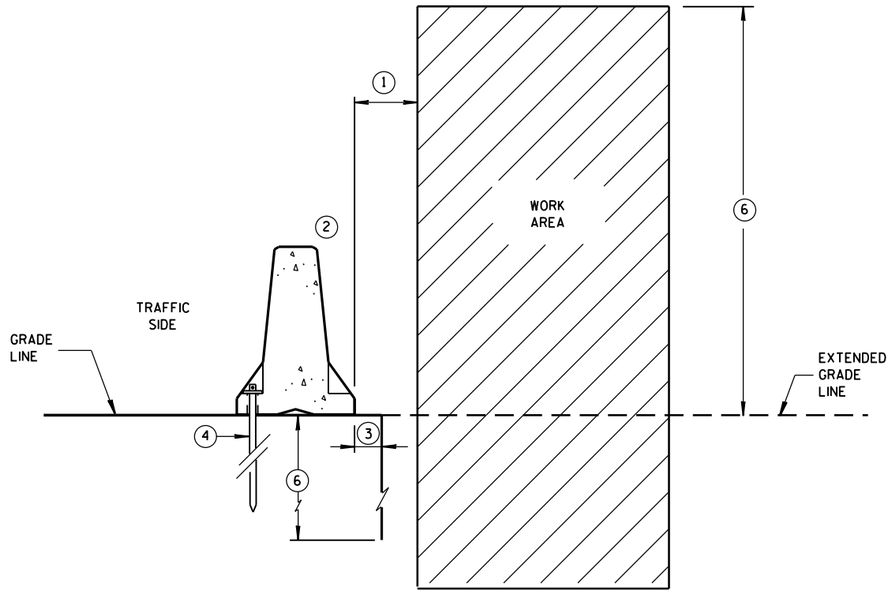
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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ANCHORED BARRIER SPACE REQUIREMENTS FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

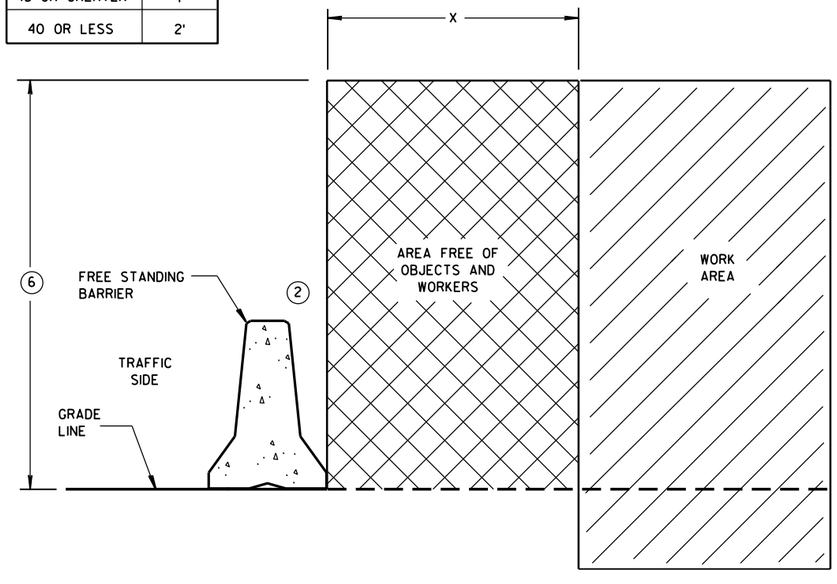


ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS

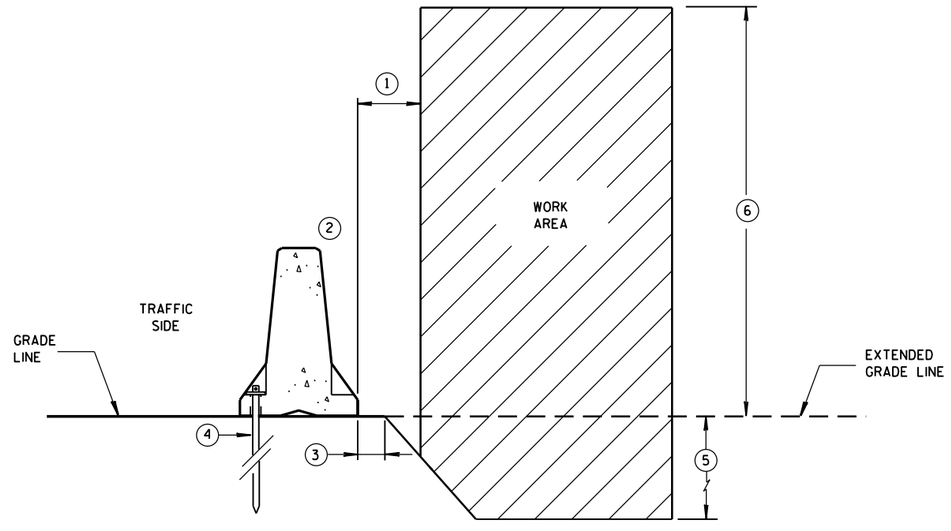
GENERAL NOTES

1. WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR VERTICAL DROPS.
2. OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
3. SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
4. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
5. DEPTH OF 3 FEET OR MORE.
6. Y = 6'-6".

POSTED SPEED MPH	X
45 OR GREATER	4'
40 OR LESS	2'



FREE STANDING BARRIER SPACE REQUIREMENTS



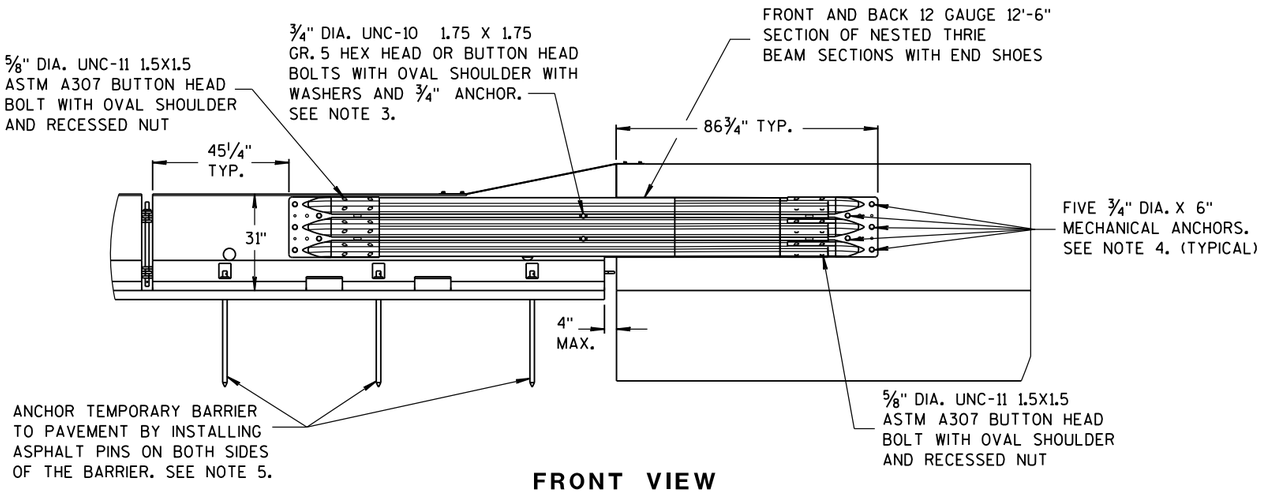
ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

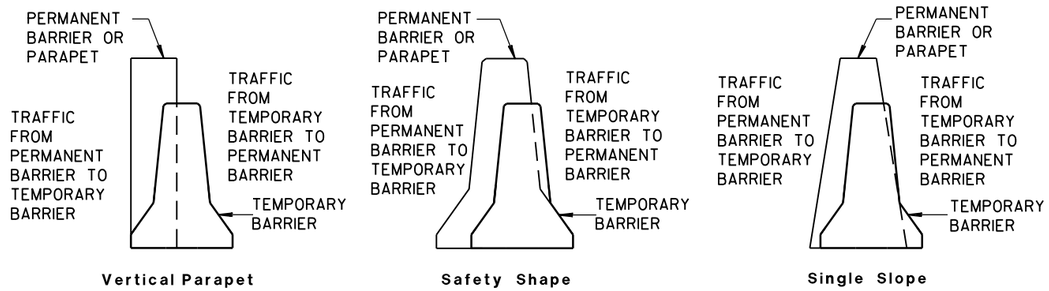
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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FRONT VIEW

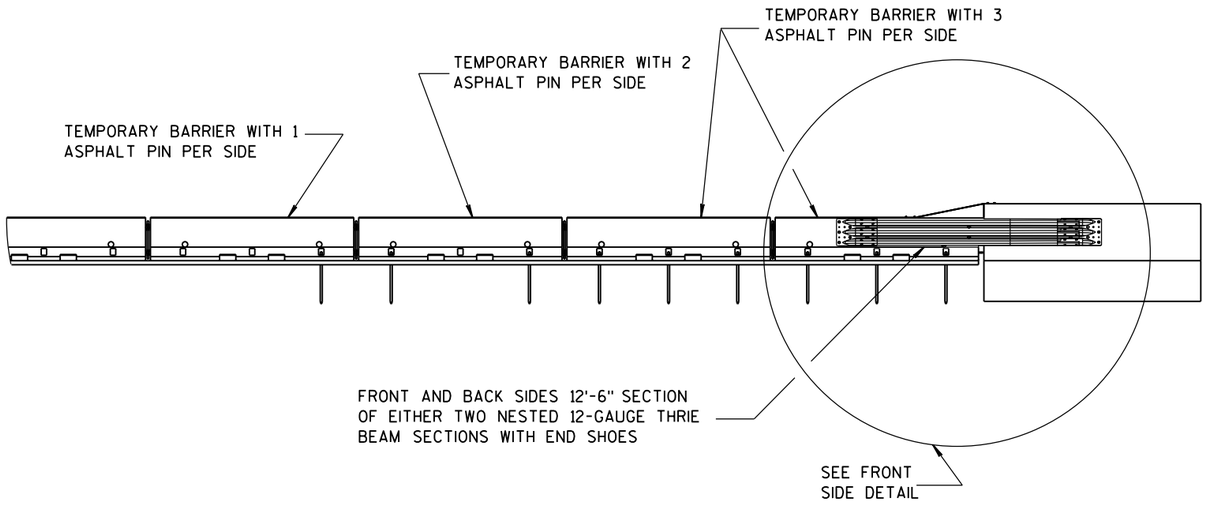


TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

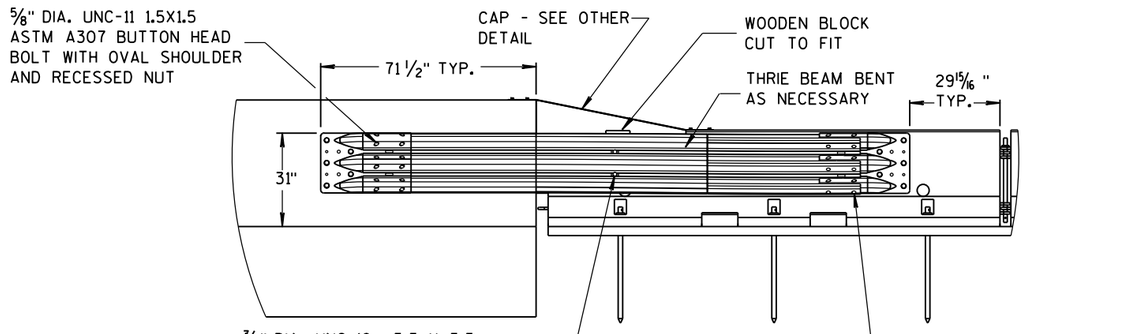
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS REGARDLESS OF TRAFFIC.

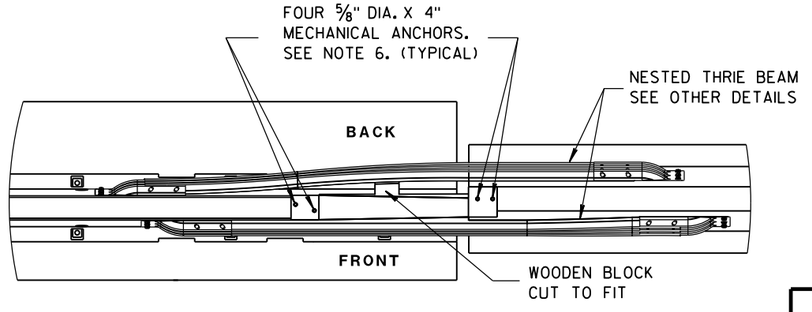
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



FRONT VIEW



BACK VIEW



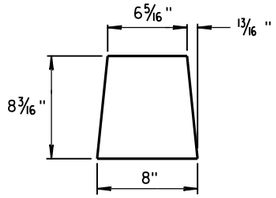
PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

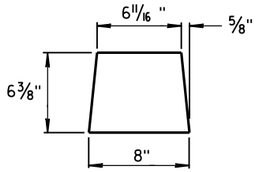
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

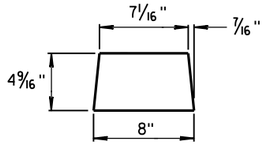
6
S.D.D. 14 B 7-15f



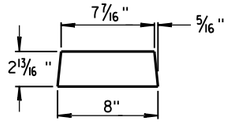
GUSSET 1



GUSSET 2

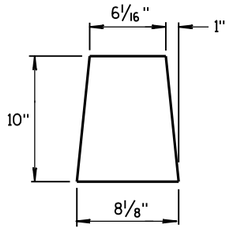


GUSSET 3

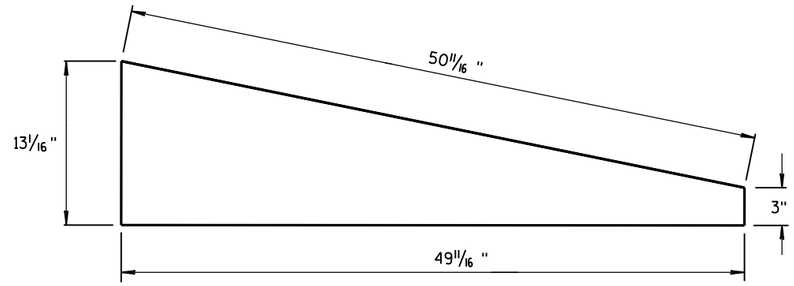


GUSSET 4

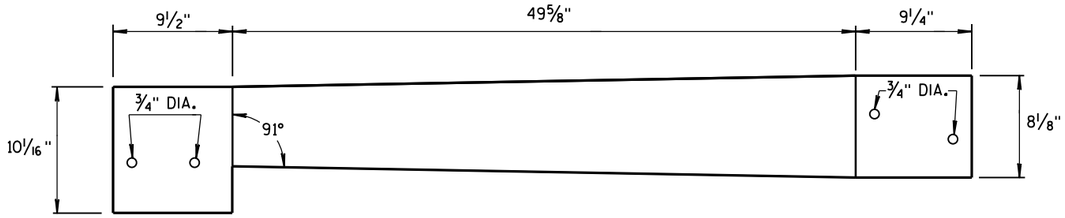
GUSSETS

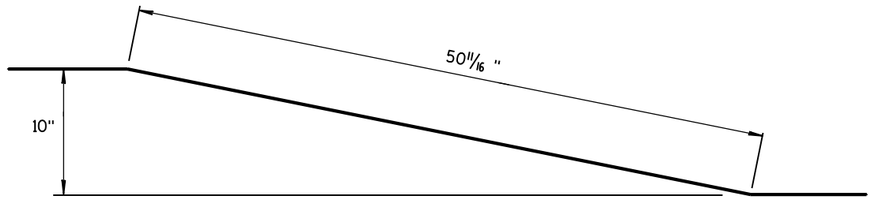


END PLATE



SIDE PLATE

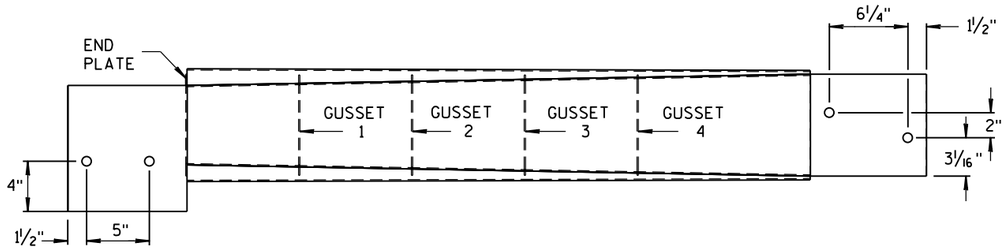


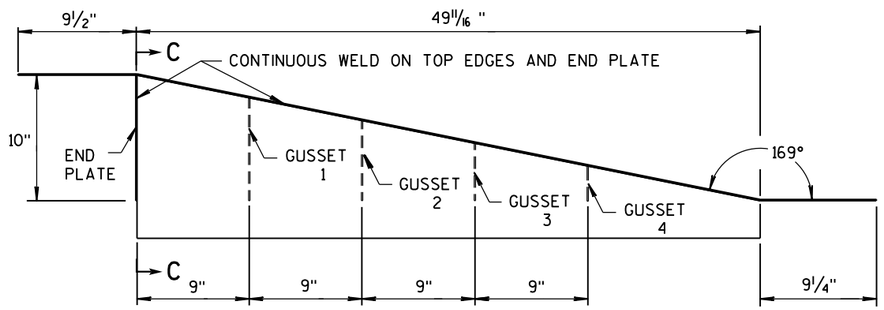


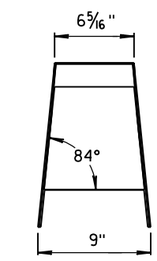
TOP PLATE

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.







SECTION C-C

NOTES

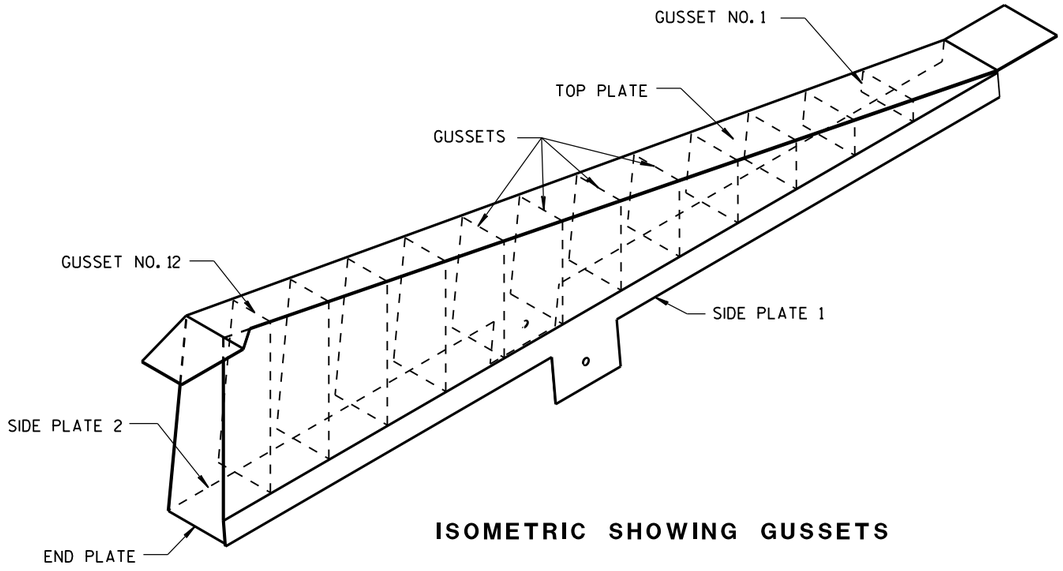
1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

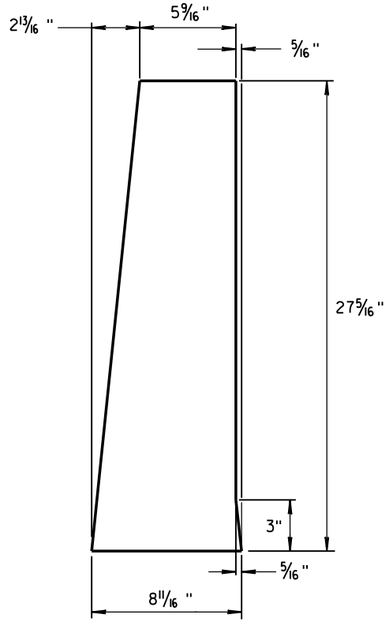
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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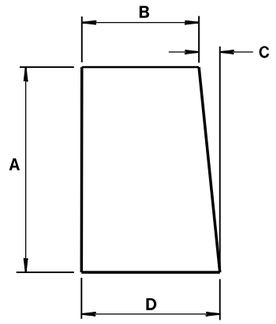


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



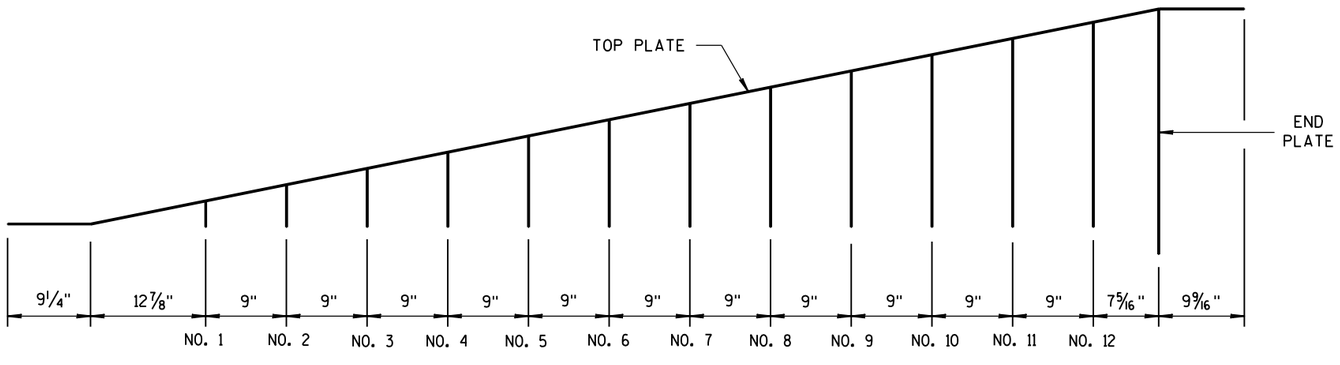
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

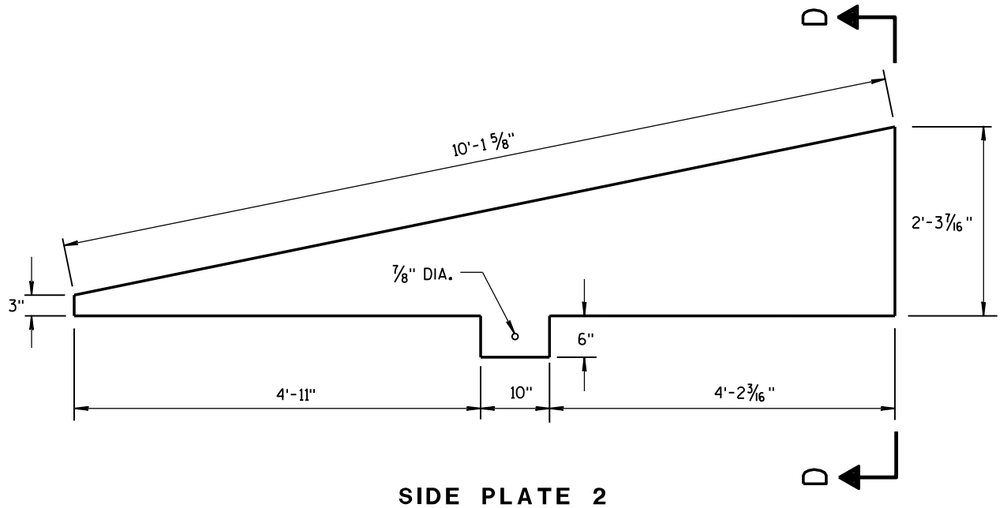
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

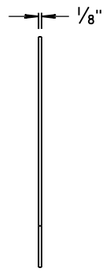
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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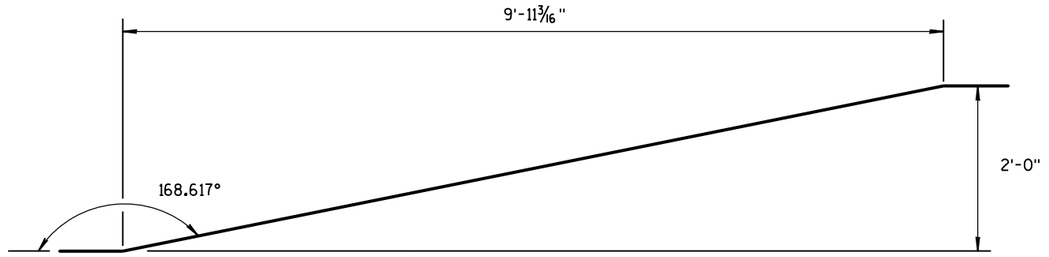
S.D.D. 14 B 7-15h



SIDE PLATE 2

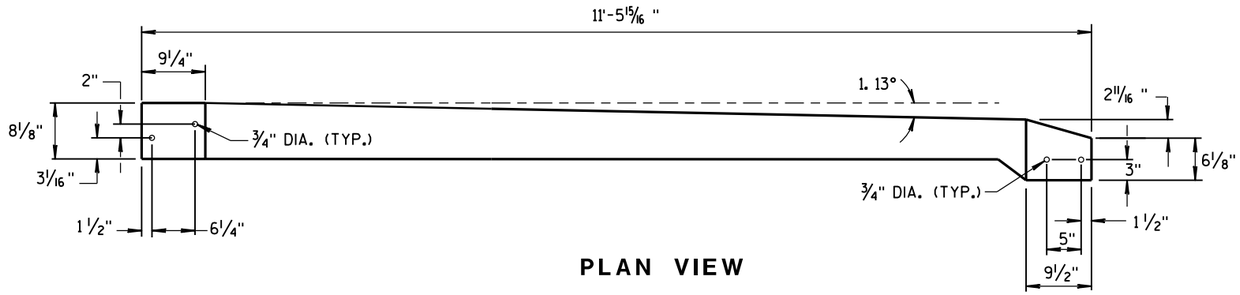


END VIEW



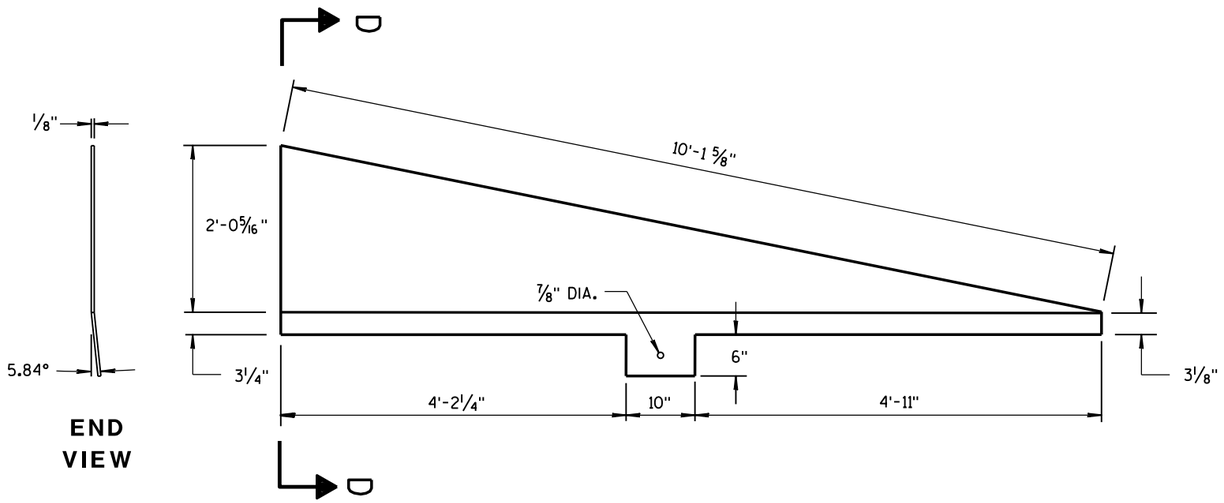
SIDE VIEW

TOP PLATE



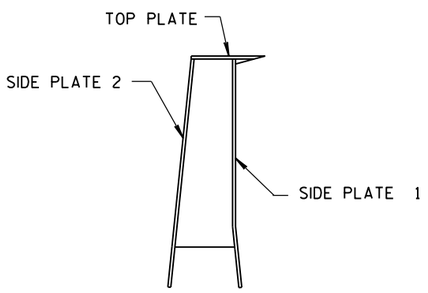
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

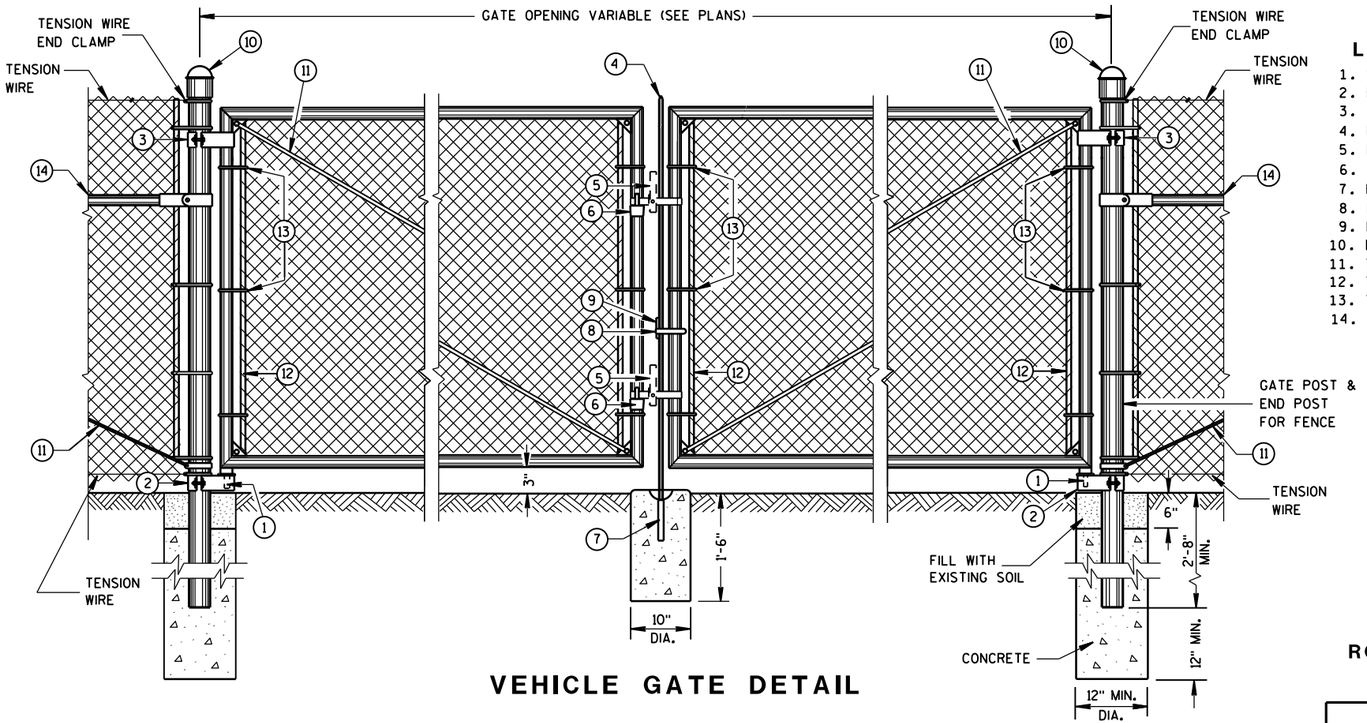
APPROVED
June 2017
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERV
210
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FHWA

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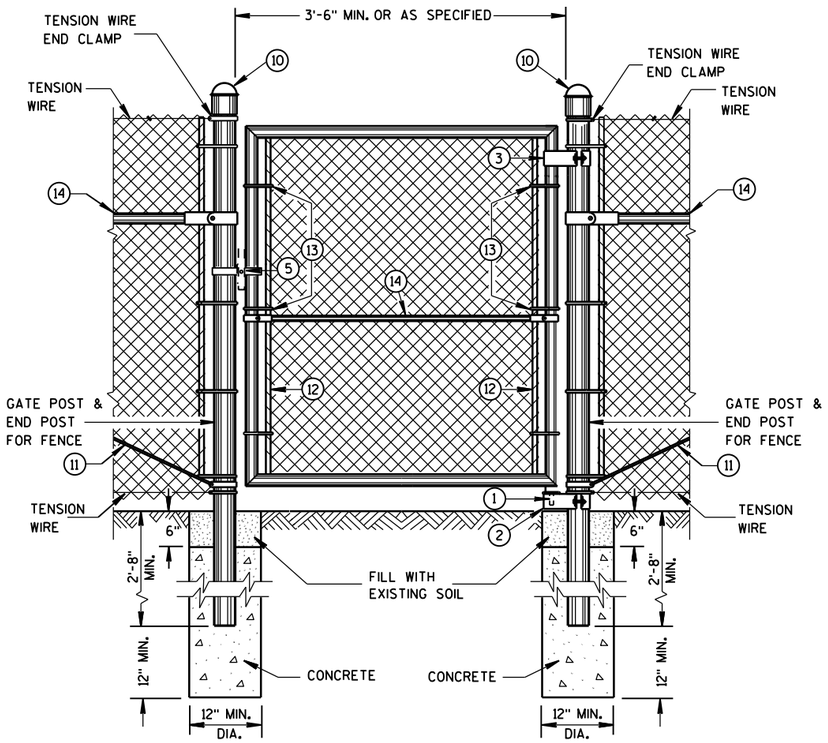
S.D.D. 14 B 7-15i

6

S.D.D. 14 B 7-15i



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

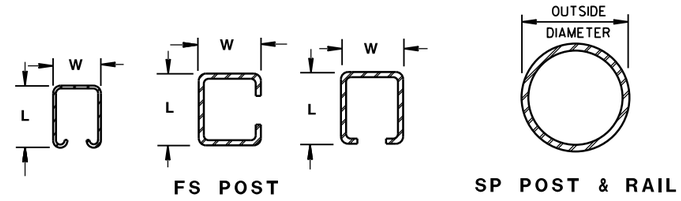
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



FS POST — SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

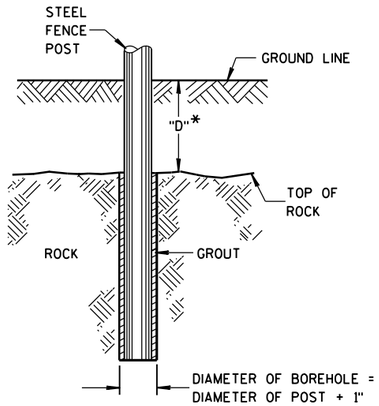
** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

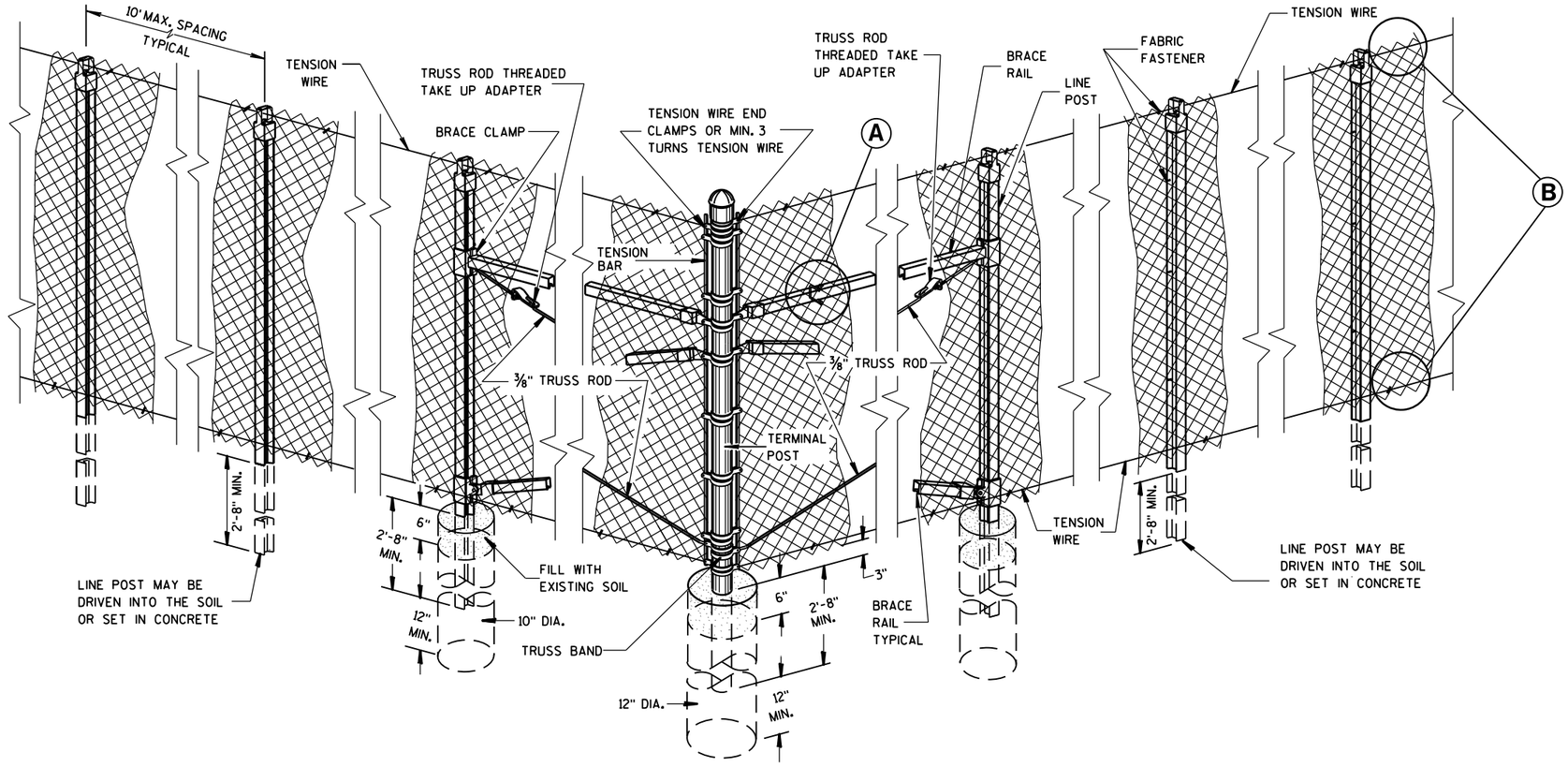
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S.D.D. 15 B 3-15a

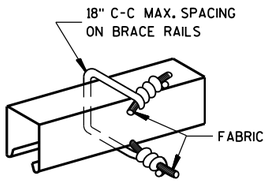


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



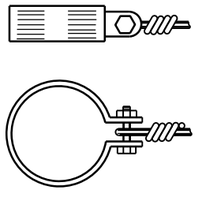
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



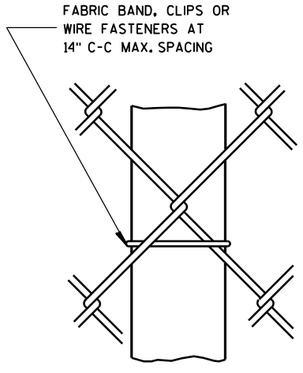
BRACE RAIL

FABRIC FASTENER

Ⓐ



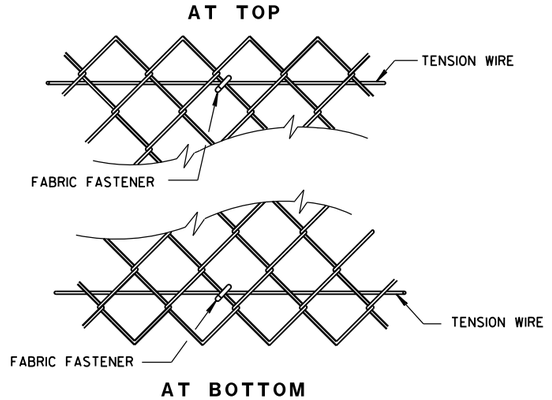
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

Ⓑ

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

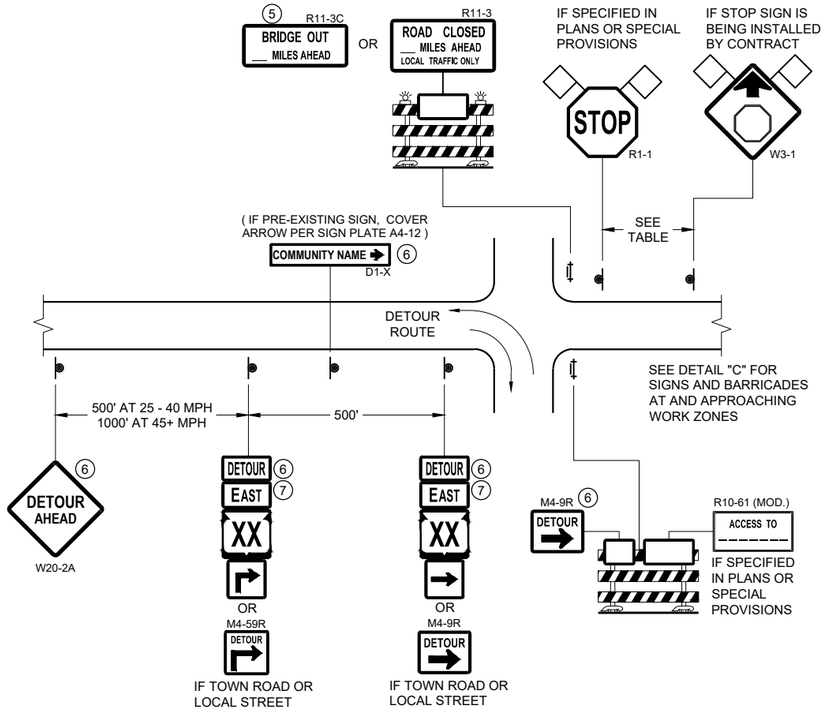
APPROVED
FEB. 2015 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

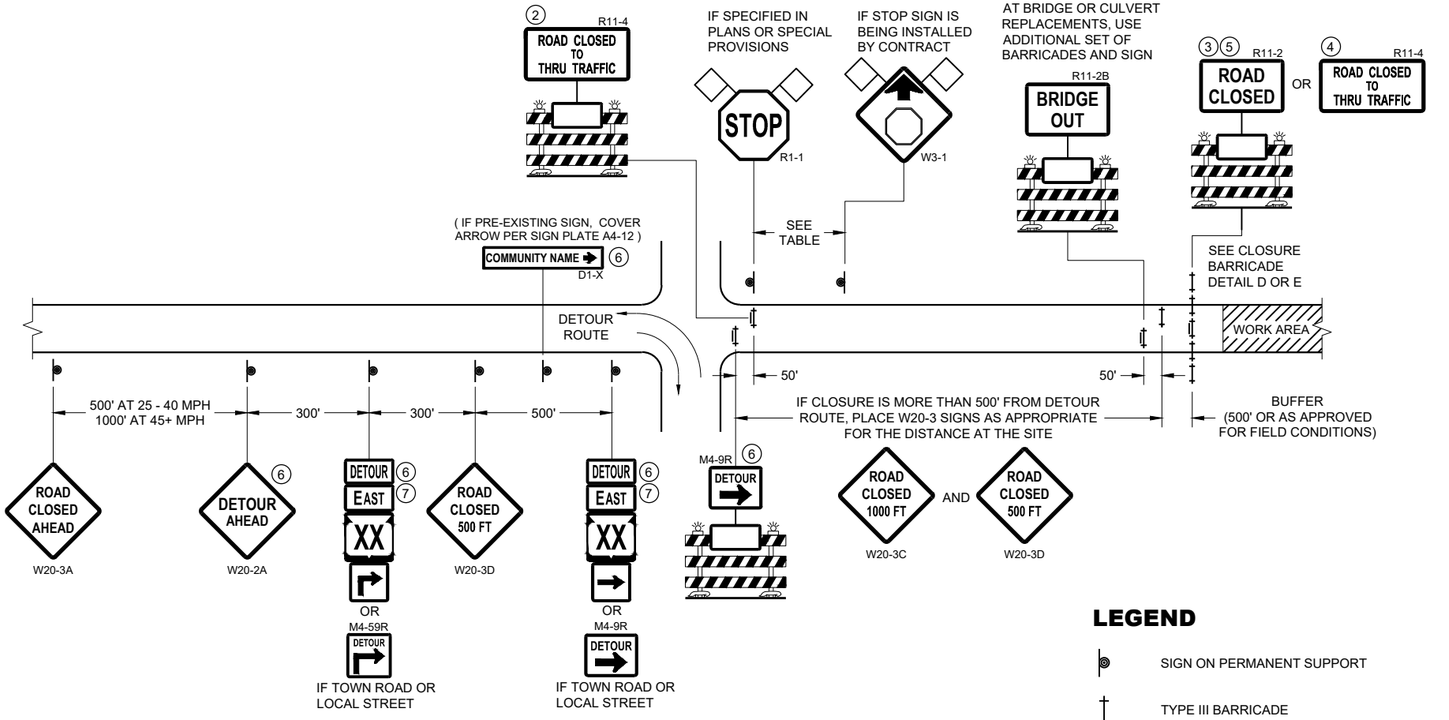
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S.D.D. 15 B 3-15b

6

S.D.D. 15 B 3-15b



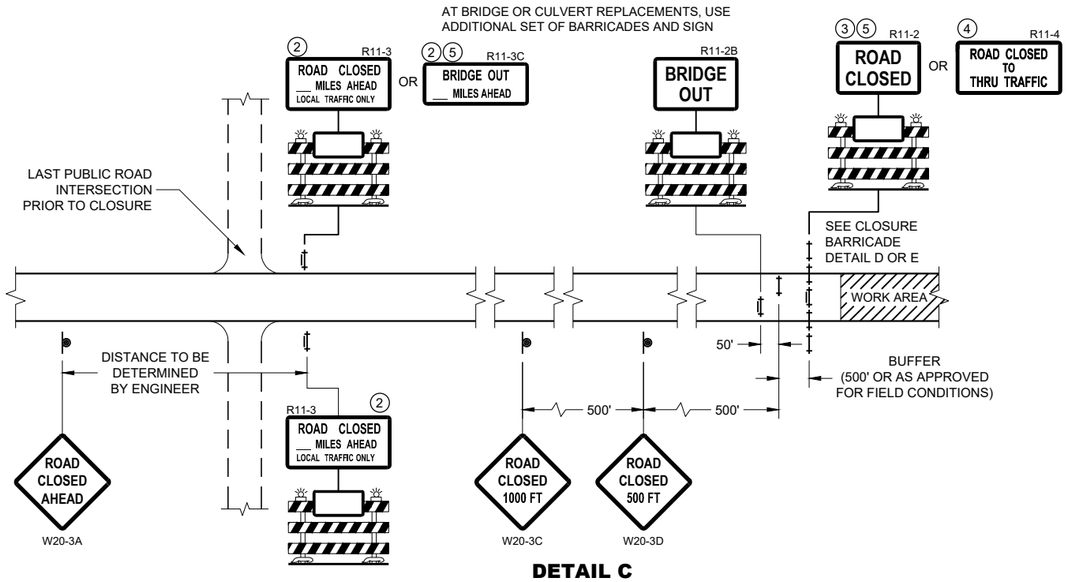


DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

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

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

LEGEND

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

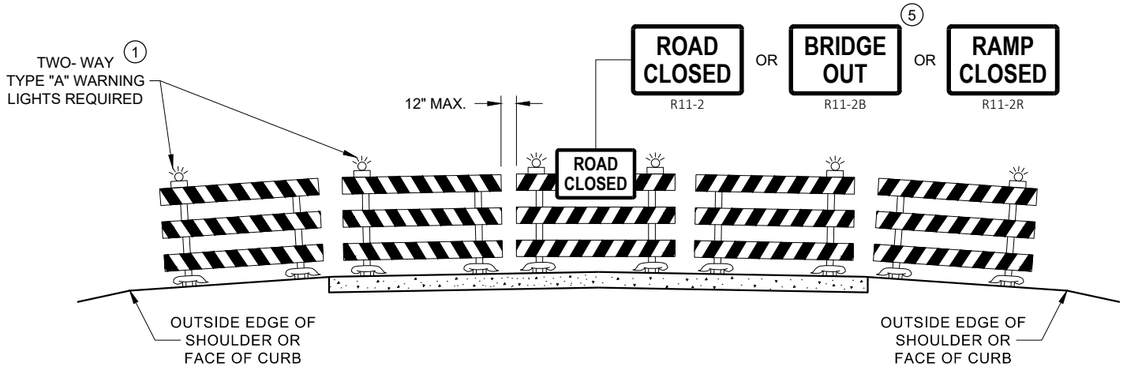
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

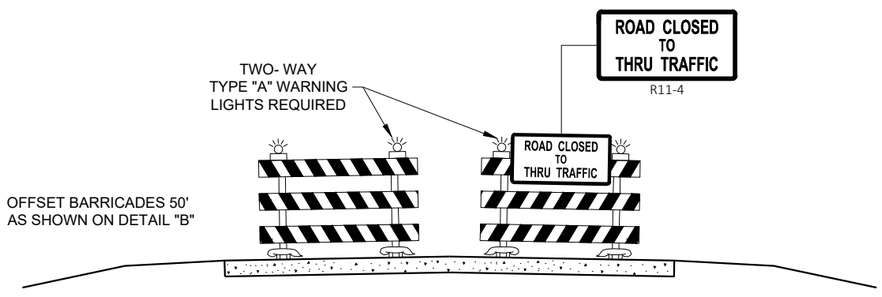
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SDD 15C02 - 08a

SDD 15C02 - 08a



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 08b

6

SDD 15C02 - 08b

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR / EAST — M4 - 8, M3 - X
- XX — M1 - 4
- OR XX — M1 - 6
- OR COUNTY X — M1 - 5A
- M05 - 1
- OR M06 - 1
- OR M06 - 1

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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

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

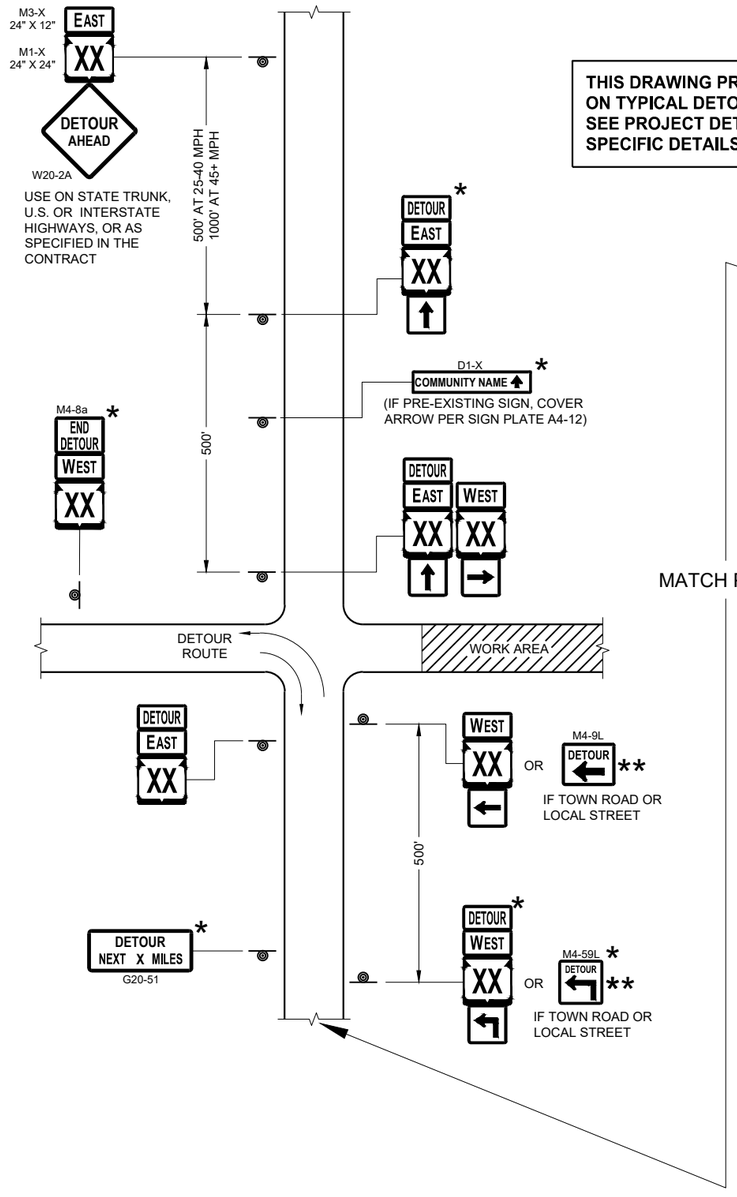
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

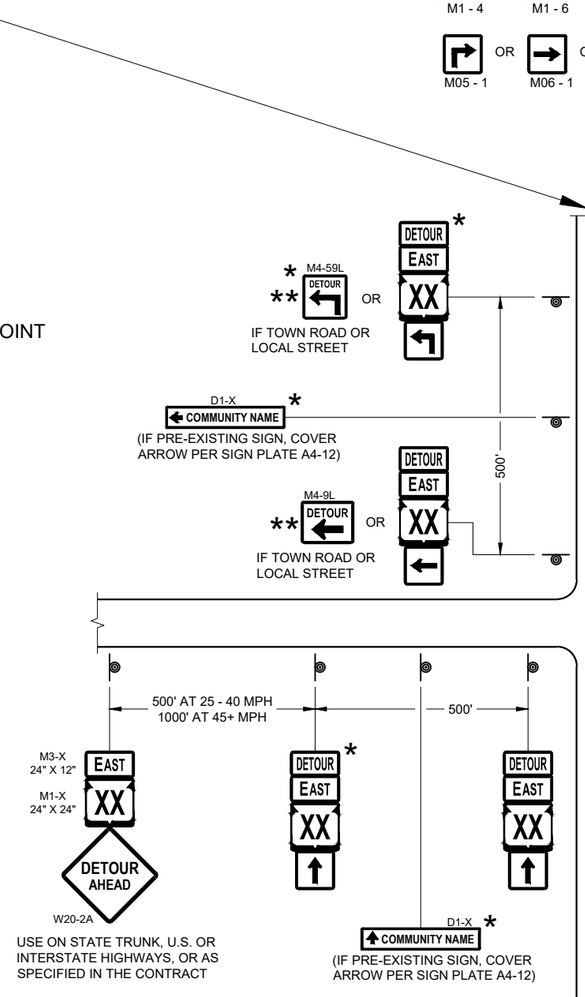
M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
M4-9 AND M4-59 SHALL BE 30" X 24"
M4-8a SHALL BE 24" X 18"
G20-51 SHALL BE 60" X 24"
W20-2A SHALL BE 48" X 48"
D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

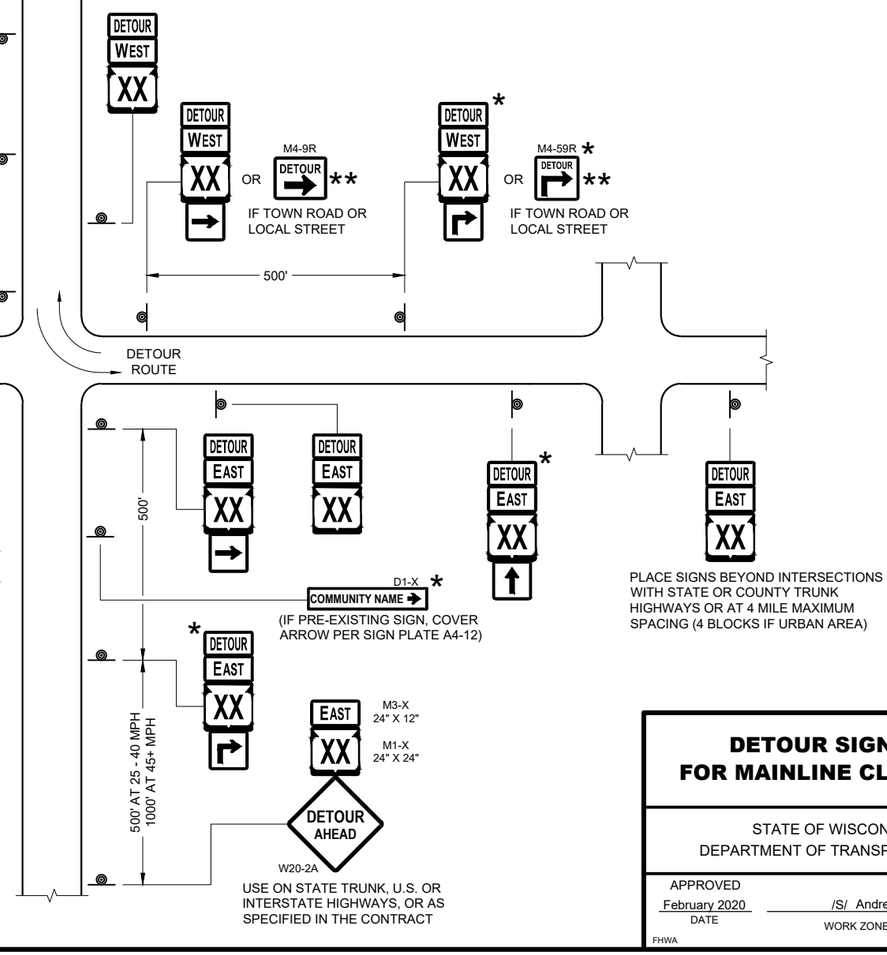
* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



MATCH POINT





SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

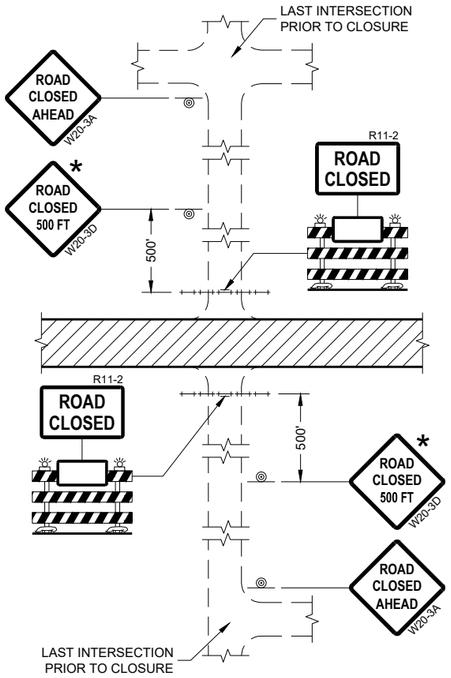
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

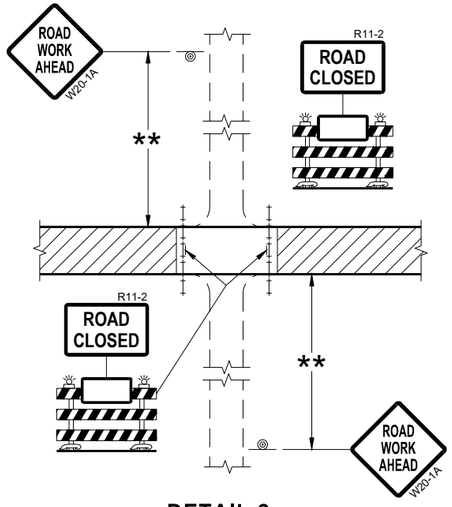
SDD 15C02 - 08c

SDD 15C02 - 08c

6



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO 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 (500 FEET DESIRABLE) 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 REESTABLISHED.

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

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN 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.

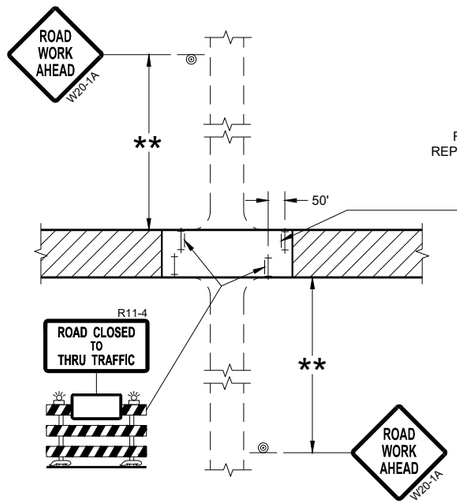
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

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.

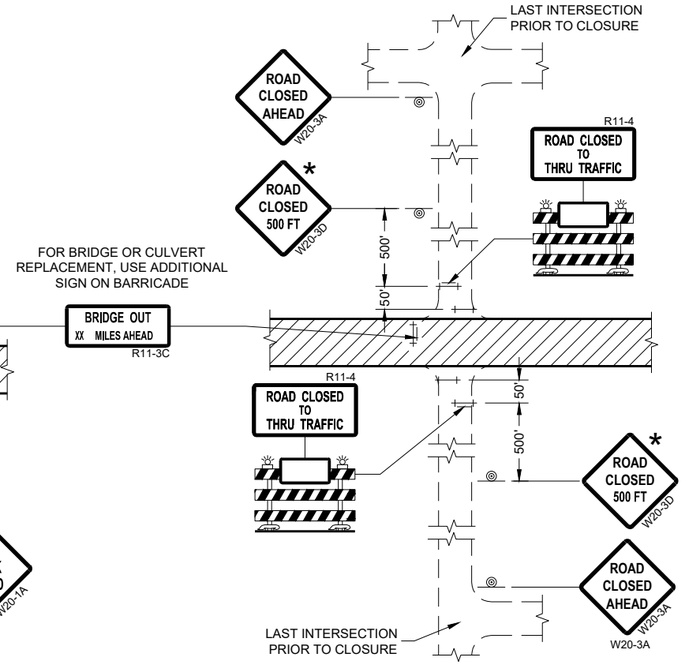
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

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

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.



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



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

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C03 - 05

SDD 15C03 - 05

GENERAL NOTES

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

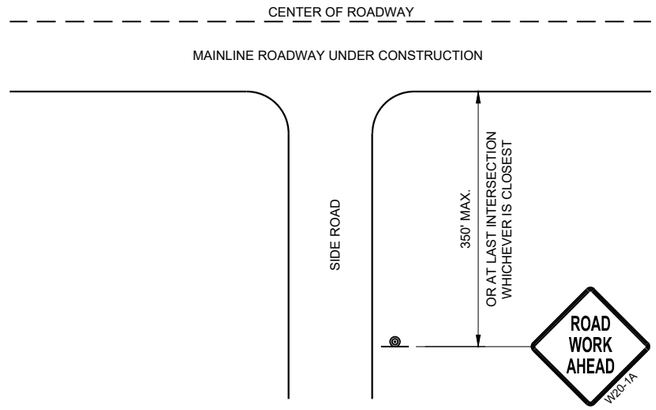
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

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

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

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



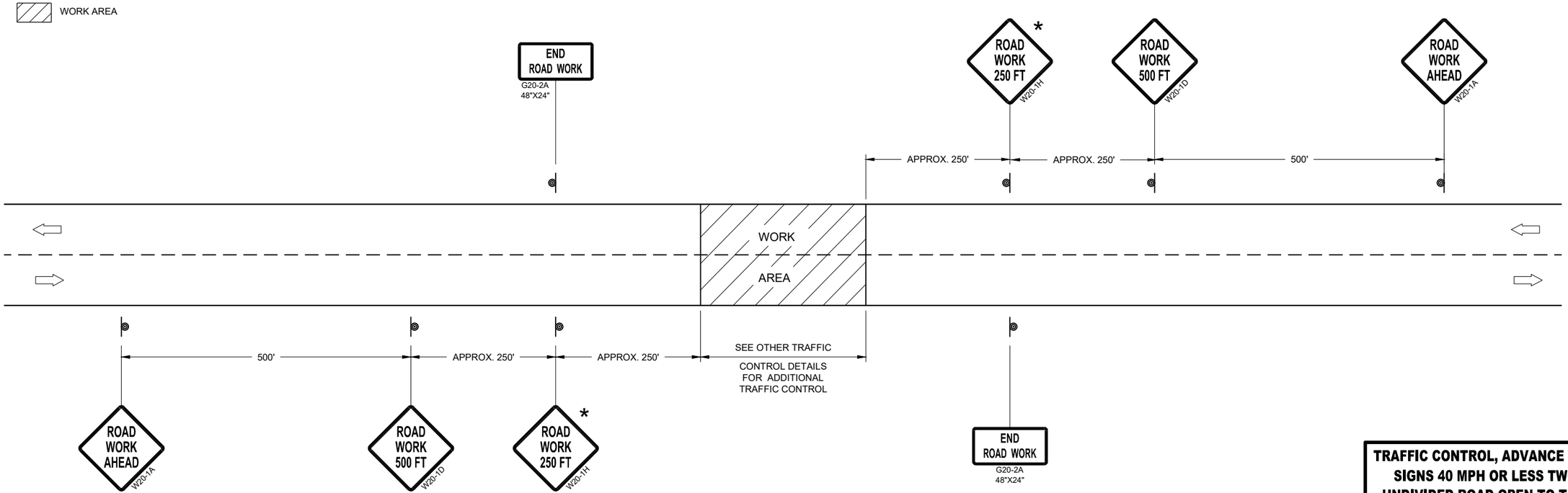
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

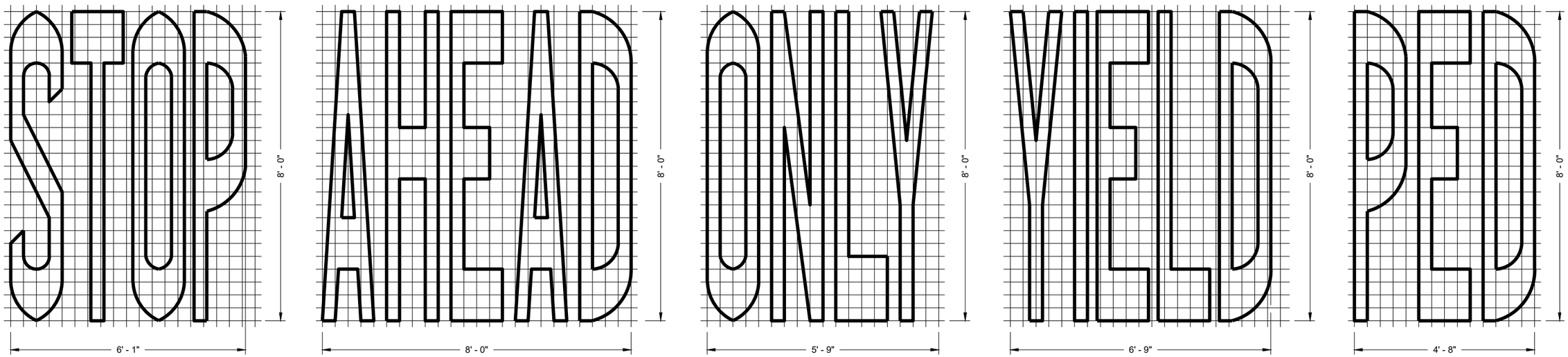
APPROVED
July 2018
DATE

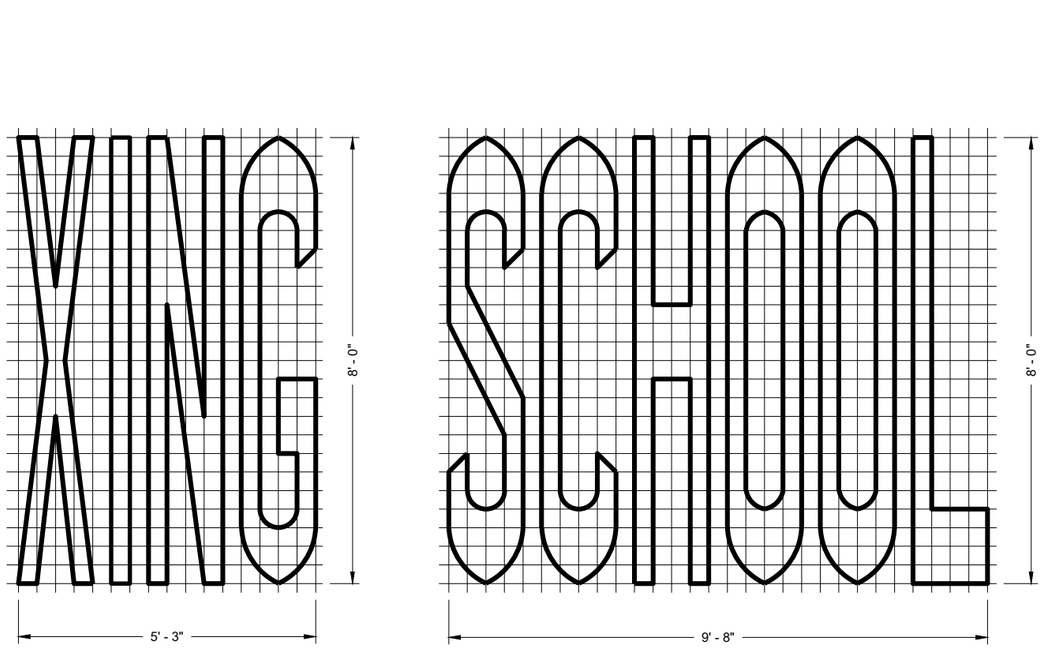
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

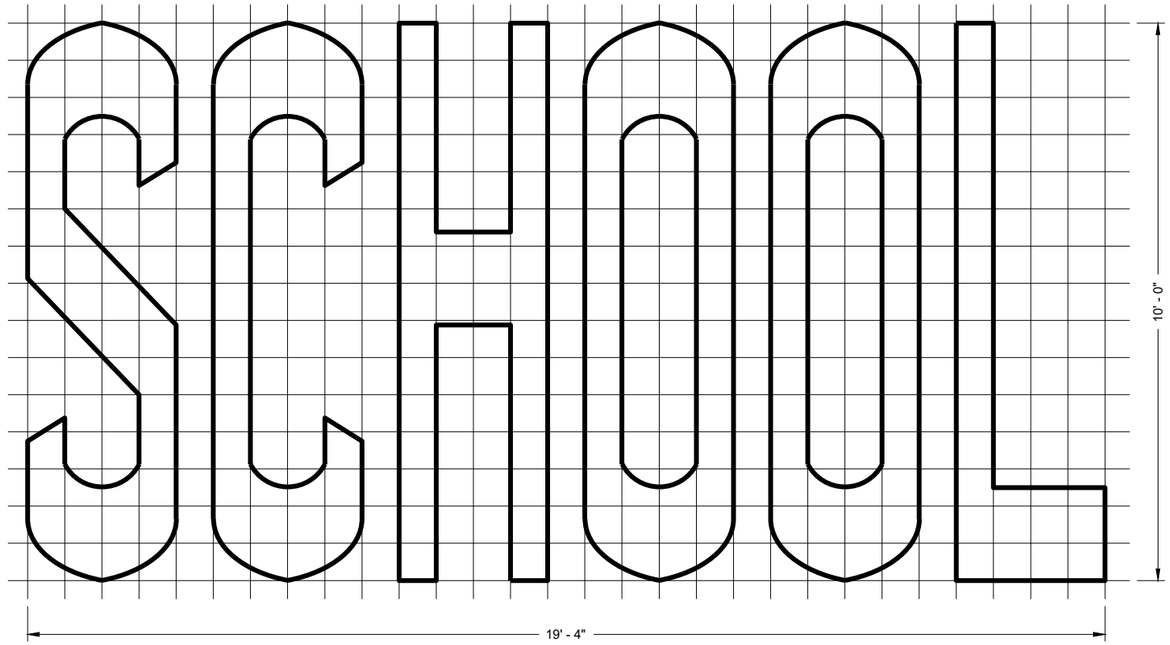
6

SDD 15C05 - 05





SINGLE LANE



TWO - LANE

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.

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

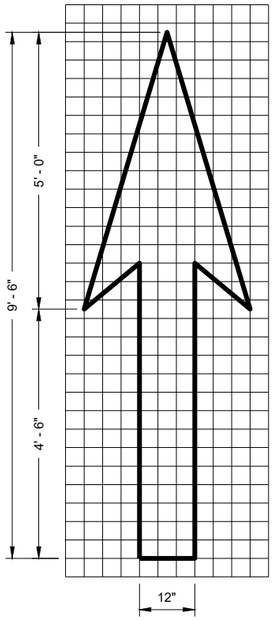
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SDD 15C07 - 15b

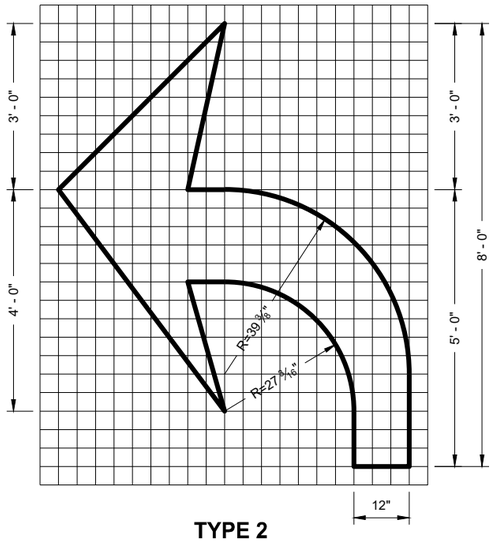
SDD 15C07 - 15b

GENERAL NOTES

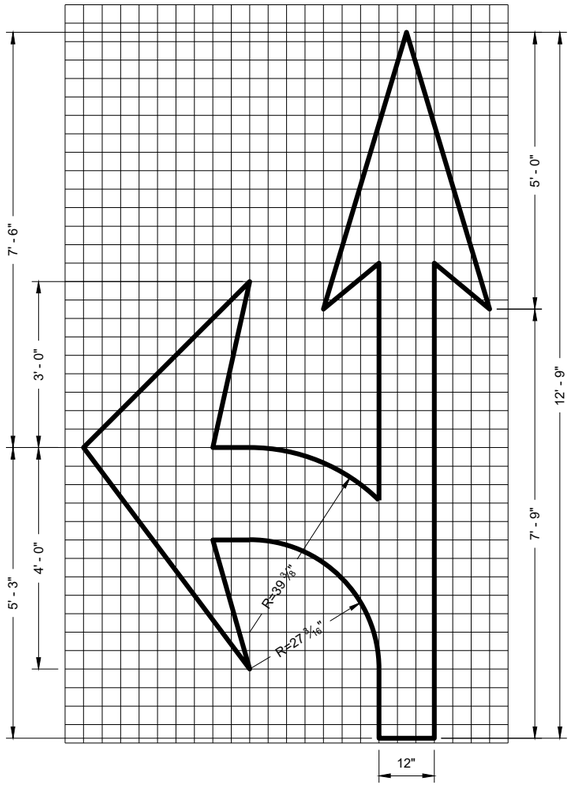
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



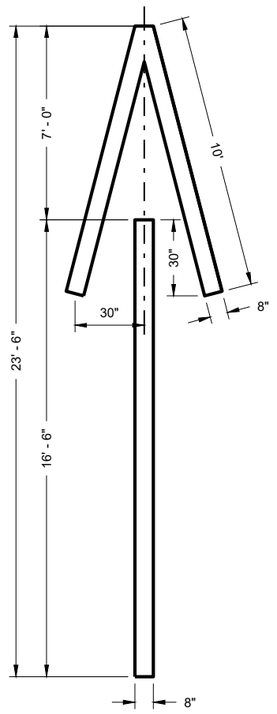
TYPE 1



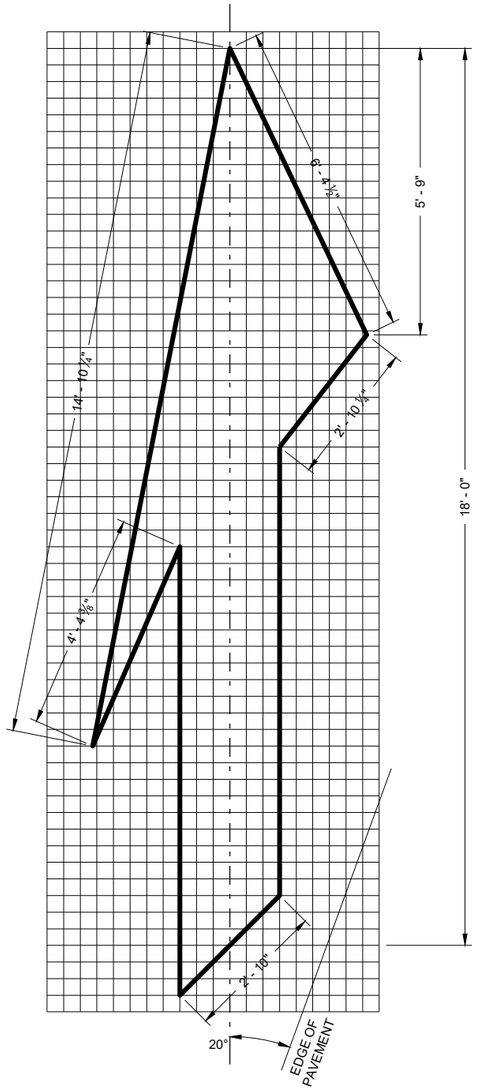
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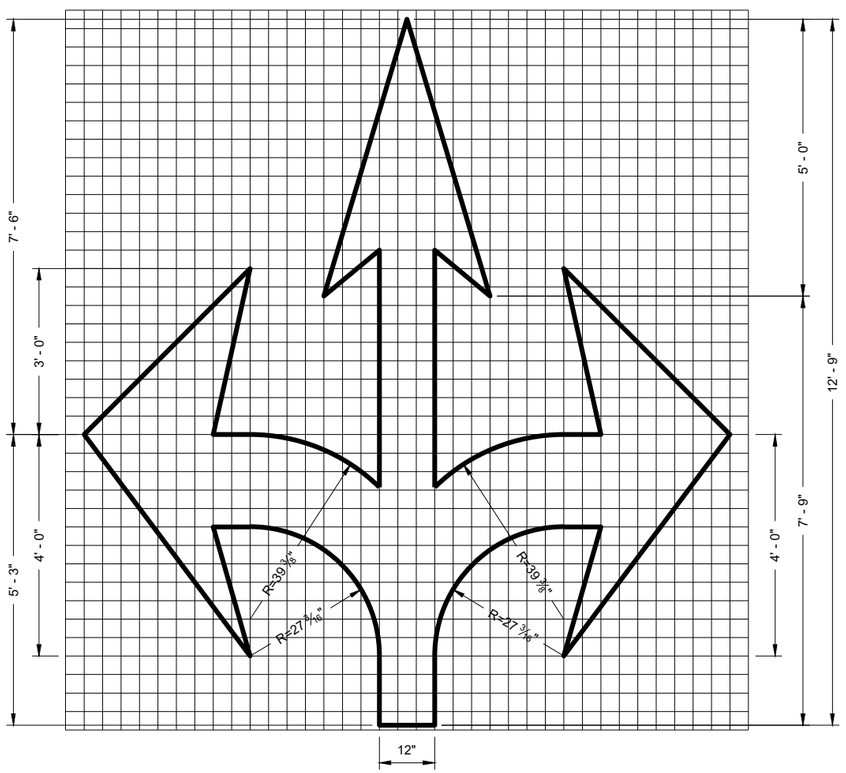
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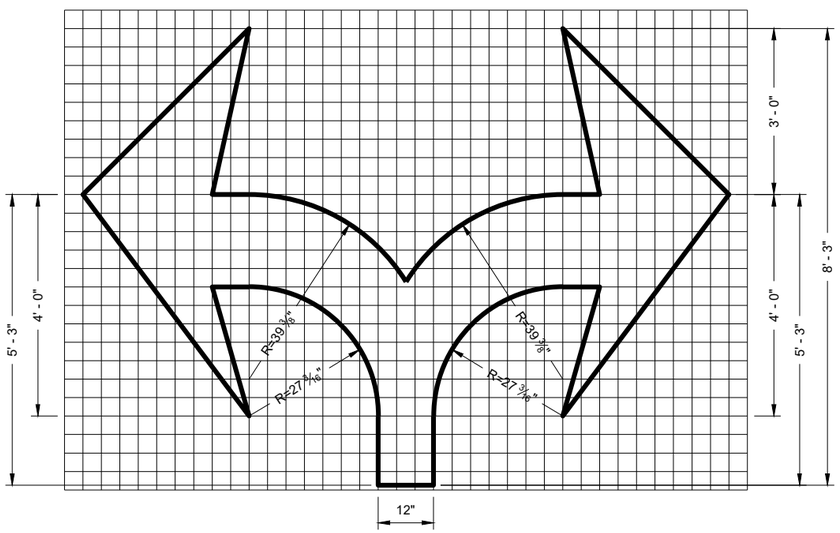
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

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DEPARTMENT OF TRANSPORTATION

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November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

219

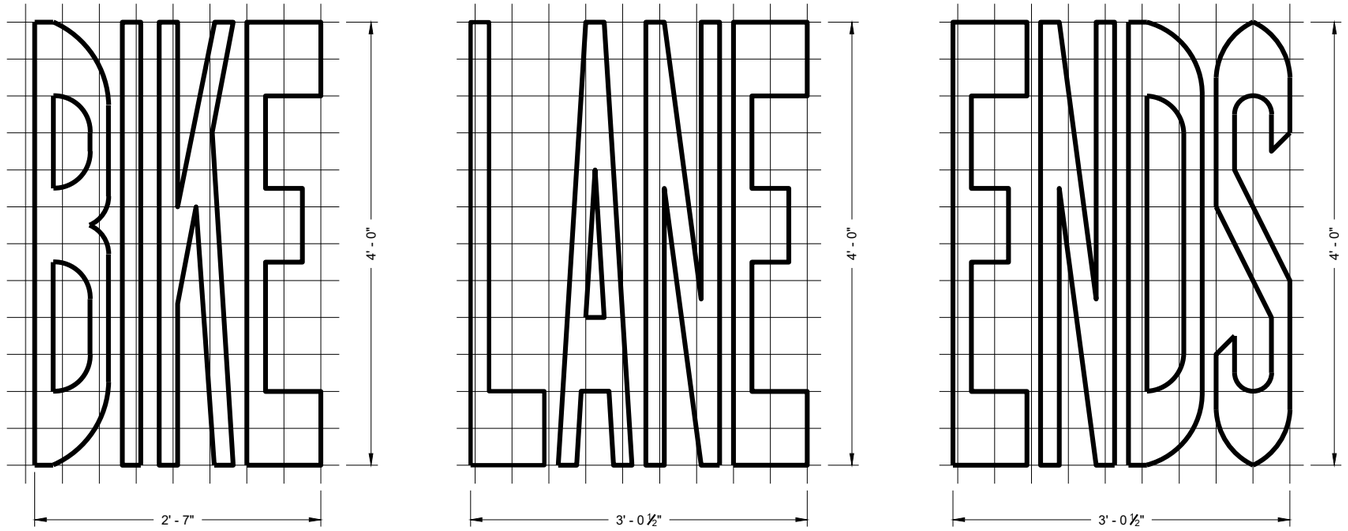
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SDD 15C07 - 15c

6

SDD 15C07 - 15c

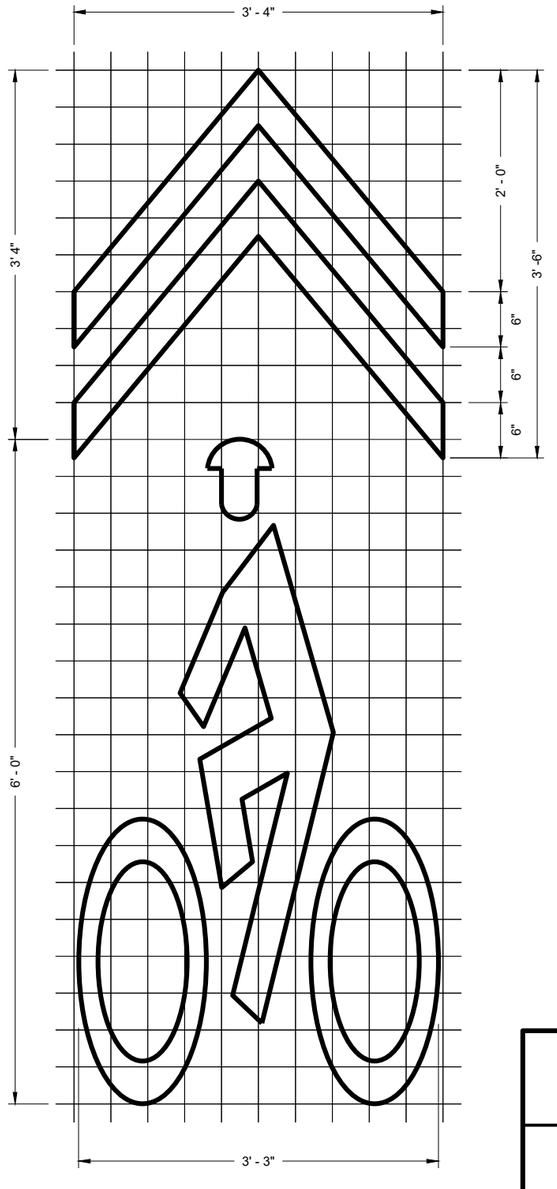
SDD 15C7-e Pavement Marking For Bike Lanes

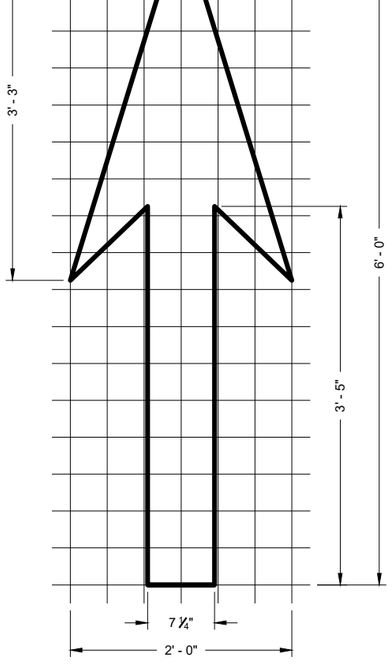


BIKE LANE WORDS

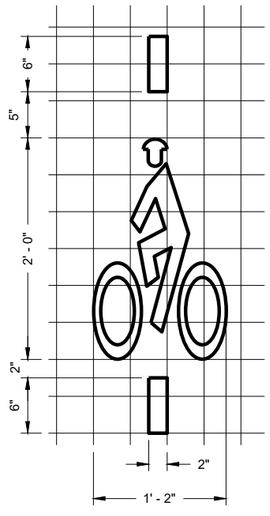
GENERAL NOTES

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.

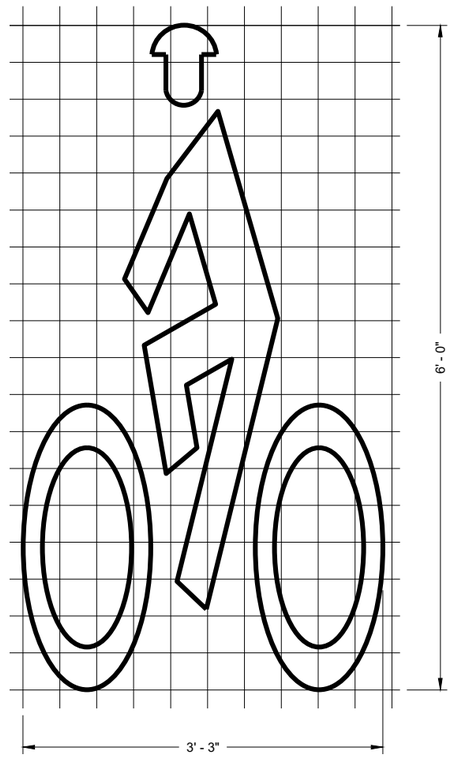




BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING



BIKE LANE SYMBOL

BIKE LANE SYMBOL FOR SHARED LANE

PAVEMENT MARKING FOR BIKE LANES

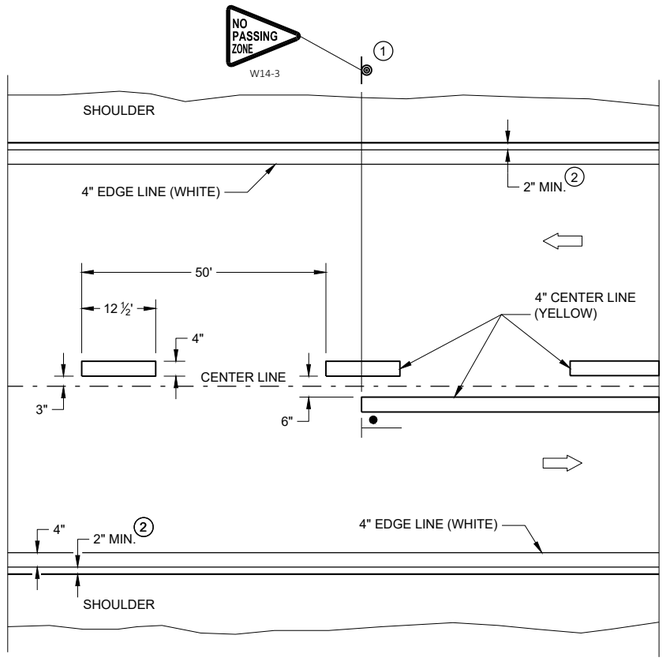
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER

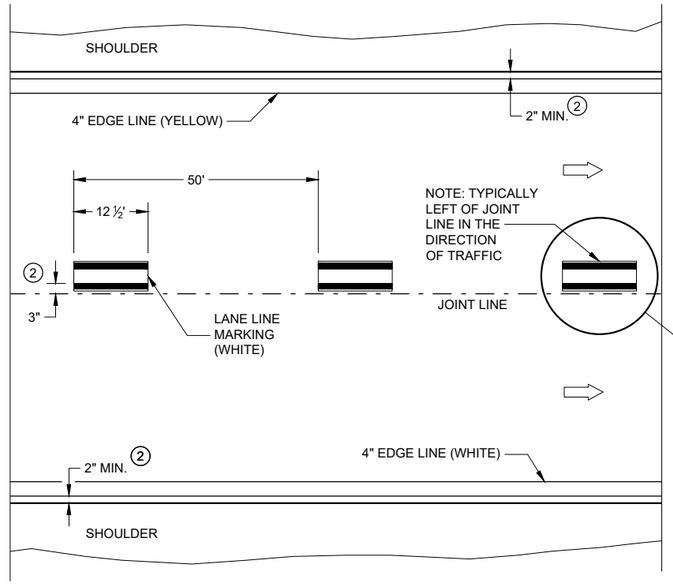
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SDD 15C07 - 15e

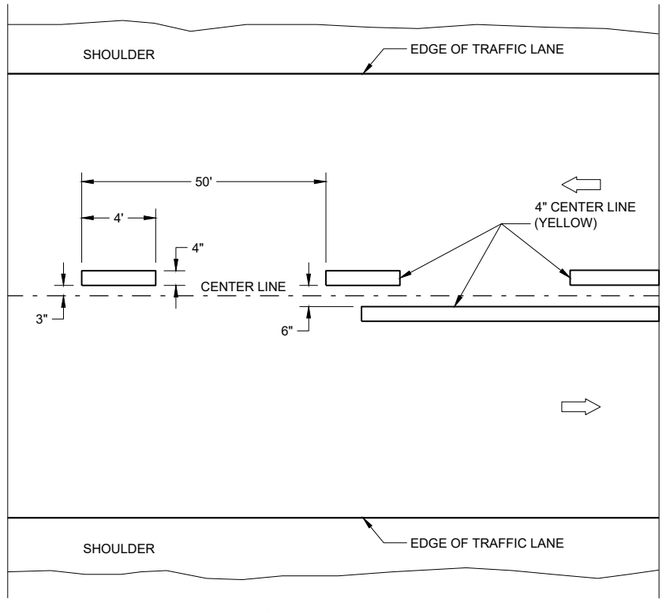


TWO WAY TRAFFIC

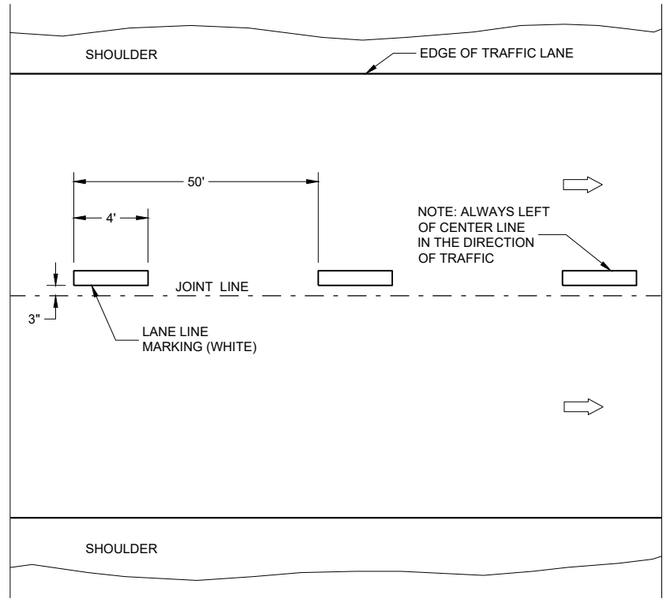


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

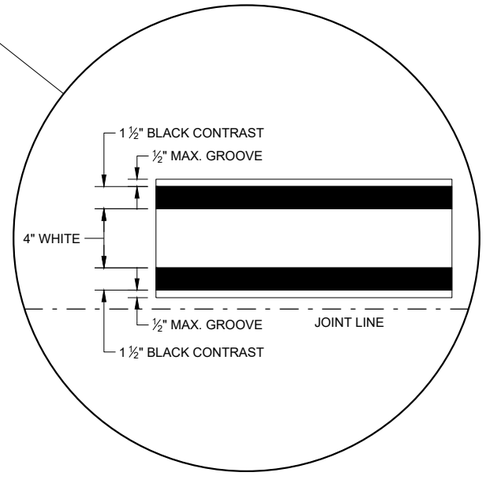
1. LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
2. MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



LONGITUDINAL MARKING (MAINLINE)

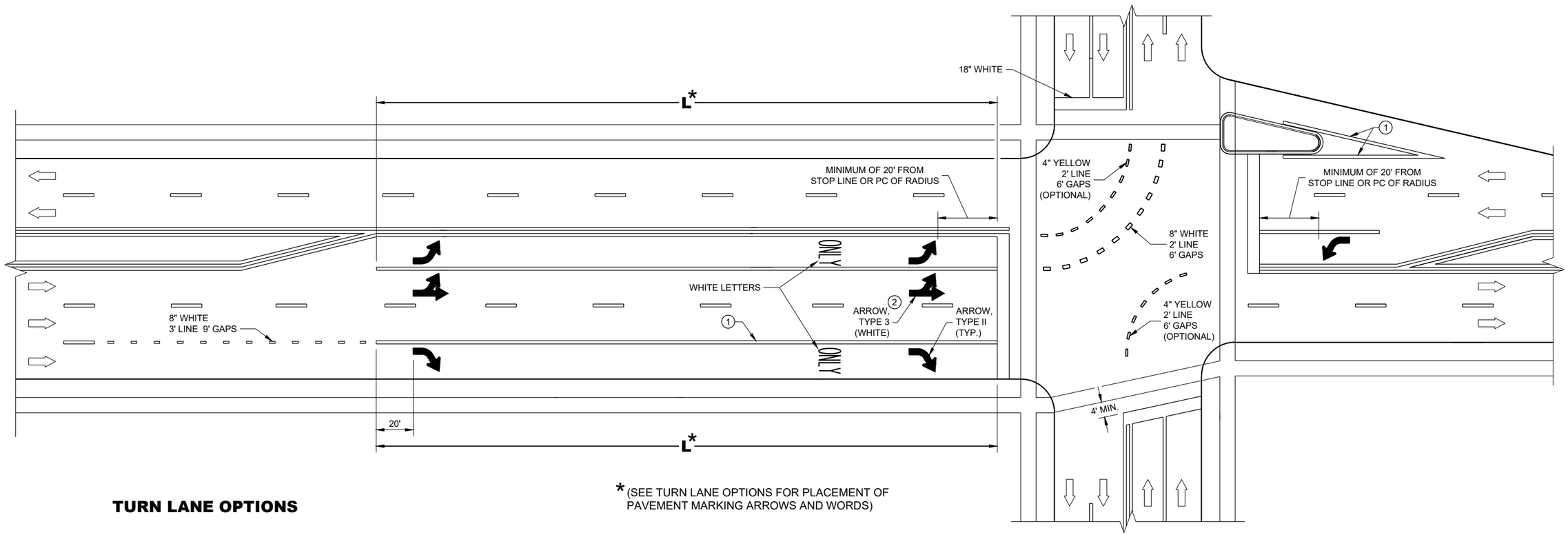
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 — DATE
/S/ Matthew Rauch — STATEWIDE SIGNING AND M ENGINEER

FHWA

SDD 15C08 - 20a

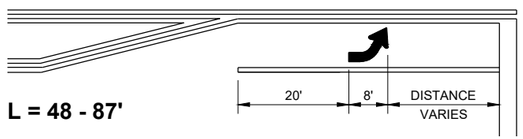
SDD 15C08 - 20a



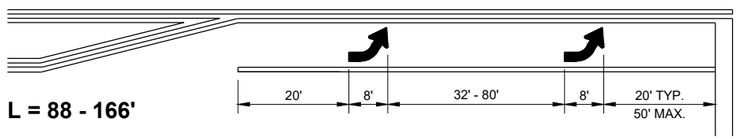
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

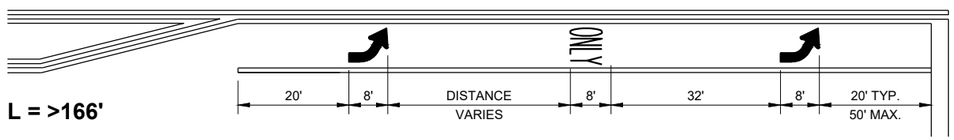
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

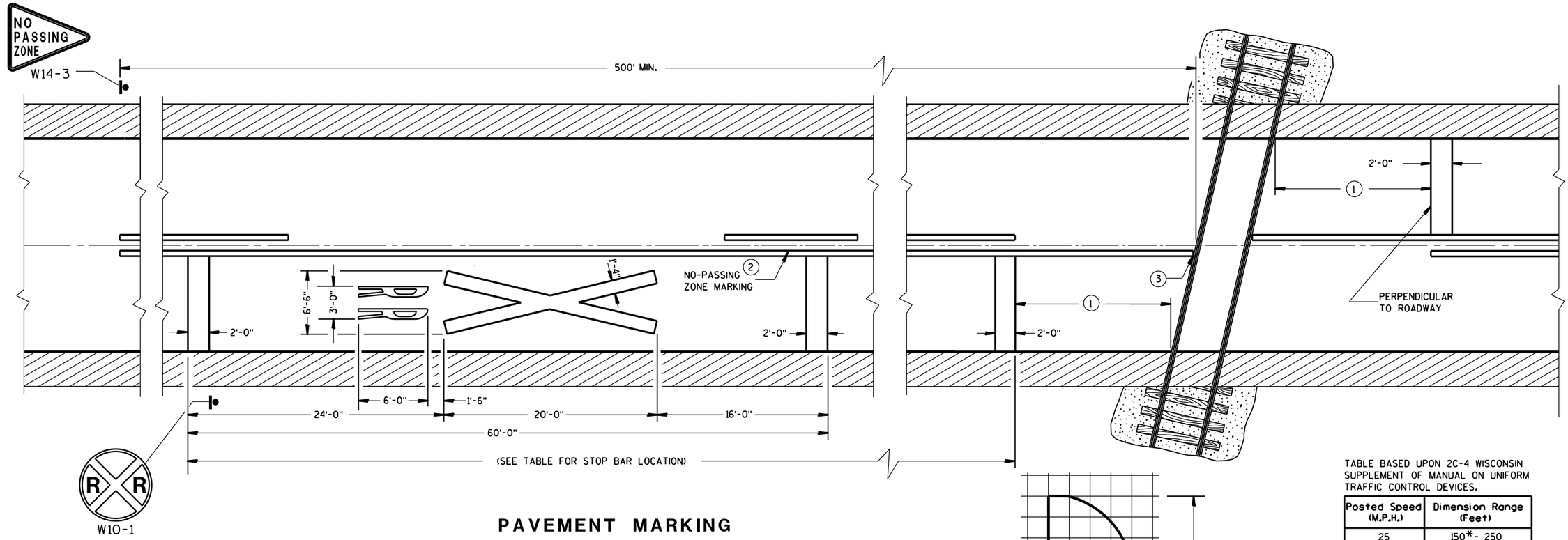
PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 15C08 - 20c

6

SDD 15C08 - 20c



PAVEMENT MARKING

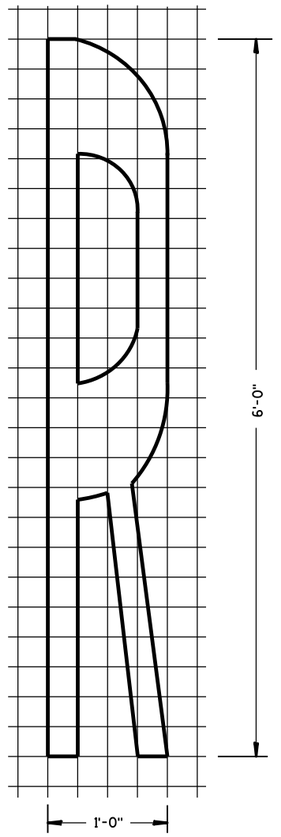


TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

Posted Speed (M.P.H.)	Dimension Range (Feet)
25	150*- 250
30	200*- 300
35	250*- 450
40	300*- 500
45	400*- 650
50	550*- 800
55	750*- 1000
60	1000*- 1250
65	1000*- 1250

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSE PROXIMITY OF DRIVEWAYS, BRIDGES, SIDEROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.

GENERAL NOTES

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

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

RETRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

(1) MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNALS, GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.

(2) 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.

(3) FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAI[illegible]GINEER

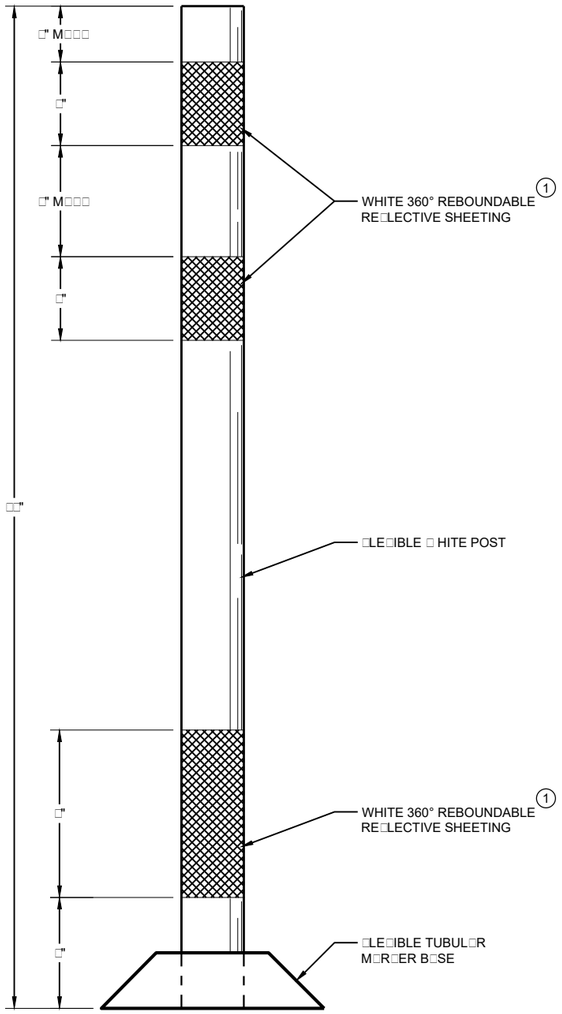
FHWA

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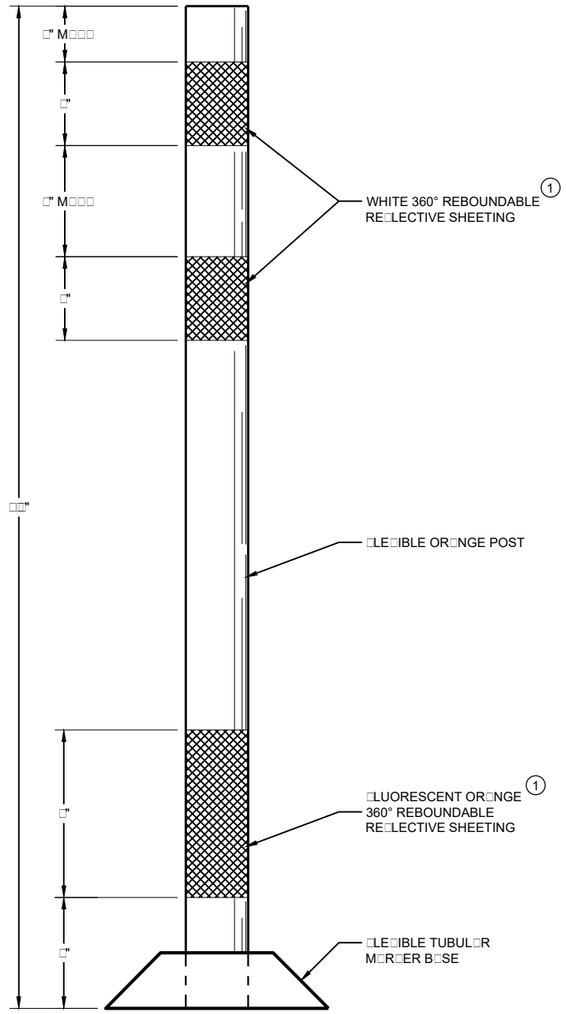
S.D.D. 15 C 9-11a

6

S.D.D. 15 C 9-11a



FLEXIBLE TUBULAR MARKER POST PERMANENT CROSSOVER



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

DET□ILS O□ CONSTRUCTION NOT SHO□ N ON THIS DR□□ ING SH□LL CON□ORM TO THE PERTINENT RE□UIREMENTS O□ THE ST□ND□RD SPECI□IC□TIONS □ND THE □PPLIC□BLE SPECI□L PROVISIONS□

SUR□□CE MOUNTED B□SES SH□LL BE □URNISHED IN □CCORD□NCE □ ITH M□NU□□CTURERS RECOMMEND□TIONS TO BE COMP□TIBLE □ ITH □LE□IBLE TUBUL□R M□R□ER POSTS TO □ SI□E □ND SH□PE TH□T □ ILL PROVIDE □ ST□BLE POST □OUND□TION □ HEN SECURED TO THE P□VEMENT□

THE □SPH□LTIC □DHESIVE OR BUTYL P□D □URNISHED SH□LL BE IN □CCORD□NCE □ ITH M□NU□□CTURERS RECOMMEND□TIONS□UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS□

(1) RE□LECTIVE SHEETING SH□LL □OLLO□ THE RE□UIREMENTS IN THE □PPROVED PRODUCTS LISTING □OR SIGN SHEETING□

6

SDD 15C11 - 07a

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SDD 15C11 - 07a

CHANNELIZING DEVICES
FLEXIBLE TUBULAR
MARKER POST

ST□TE O□ □ ISCONSIN
DEP□RTMENT O□ TR□NSPORT□TION

□PPROVED

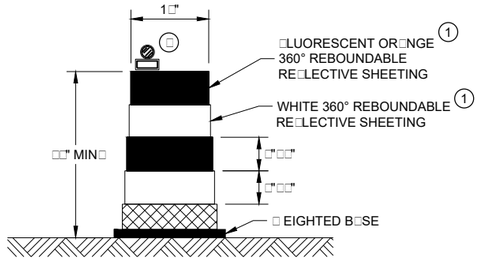
□□□□ □□1□
D□TE

□S□ □□dr□□ H□d□□
□ OR□ □ONE ENGINEE

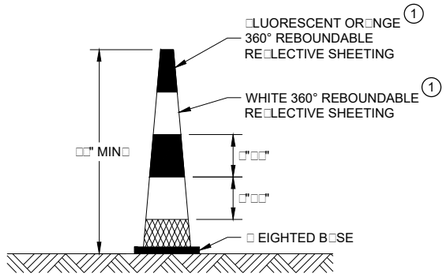
□H□□

GENERAL NOTES

1. RE□LECTIVE SHEETING SH□LL □OLLO□ THE RE□UIREMENTS IN THE □PPROVED PRODUCTS LISTING □OR SIGN SHEETING□
2. LOC□TION O□ □ □RNING LIGHTS □ HEN SHO□ N ON THE PL□N□

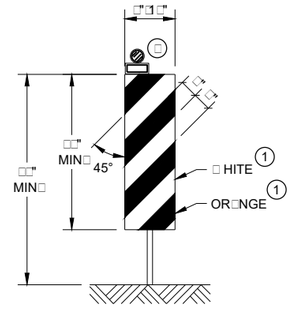


DRUM



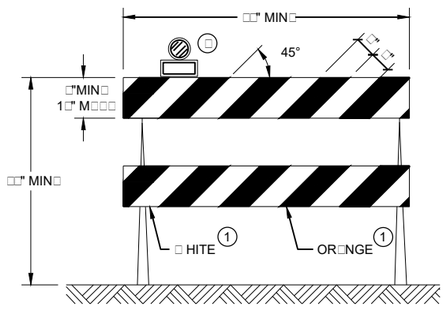
42" CONE

DO NOT USE IN T□PERS
½□ SP□CING O□ DRUMS



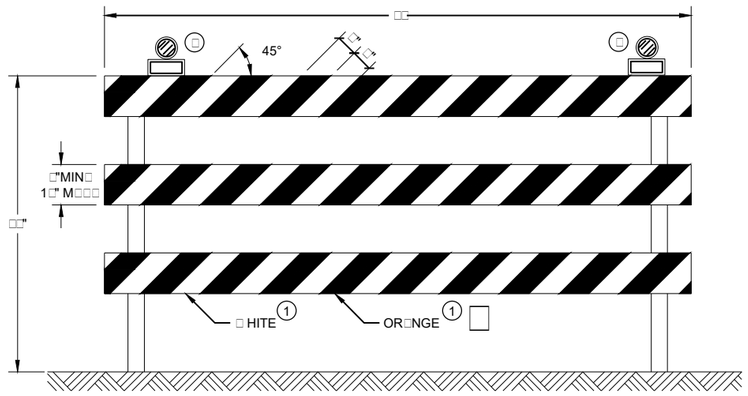
VERTICAL PANEL

THE STRIPES SH□LL SLOPE DO□ N□ □RD TO
THE TR□□□IC SIDE □OR CH□NNELI□□TION□



TYPE II BARRICADE

□OR R□ILS LESS TH□N □□" LONG□□" □ IDE STRIPES
M□Y BE USED□□LL STRIPES SH□LL SLOPE DO□ N□ □RD
TO THE TR□□□IC SIDE □OR CH□NNELI□□TION□



TYPE III BARRICADE

I□ SIGN MOUNTED□DO NOT COVER MORE TH□N 5□□ O□ THE TOP
T□ O R□ILS OR □□□ O□ THE TOT□L □RE□ O□ THE THREE R□ILS□

I□ USED □OR □ PERM□NENT □PPLIC□TION USE RED SHEETING□

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

ST□TE O□ □ ISCONSIN
DEP□RTMENT O□ TR□NSPORT□TION

□PPROVED
□□□□ □□1□
D□TE

:S□ □□dr□□ H□d□□
□ OR□ □ONE ENGINE

225

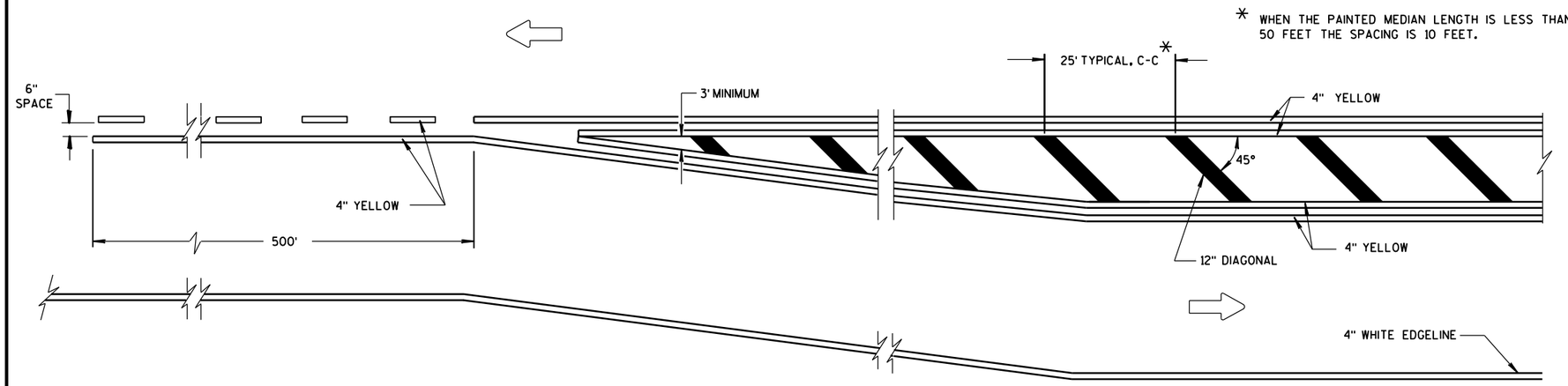
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SDD 15C11 - 07b

6

SDD 15C11 - 07b

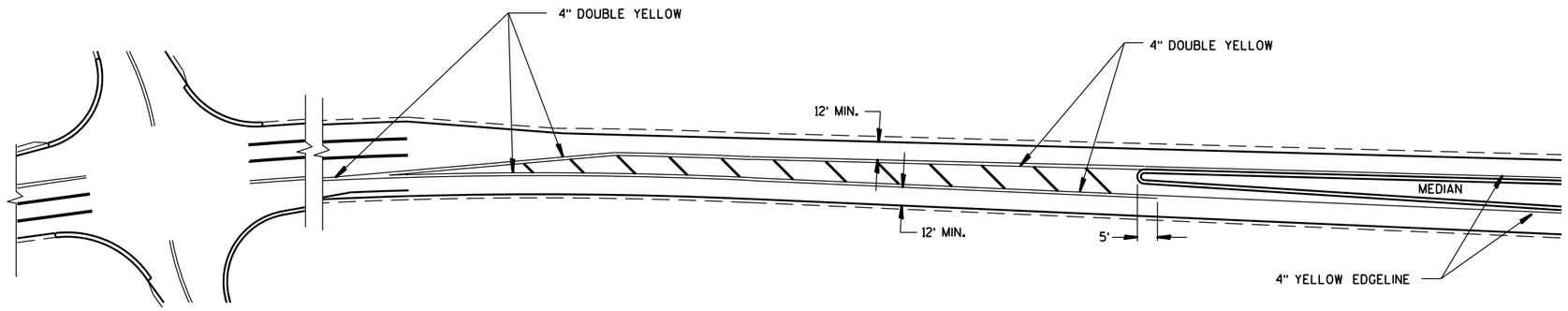


MEDIAN ISLAND DETAIL

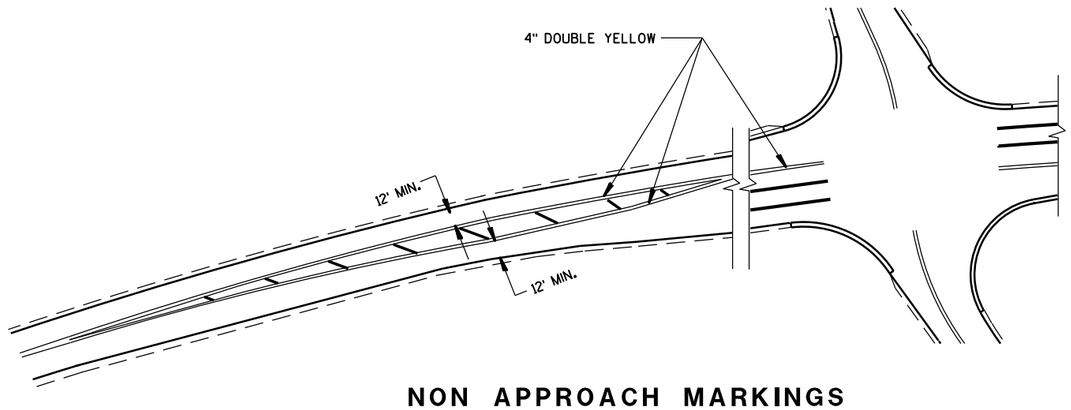
GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARK[illegible]EER
FHWA

6

S.D.D. 15 C 18-4

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S.D.D. 15 C 18-4

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

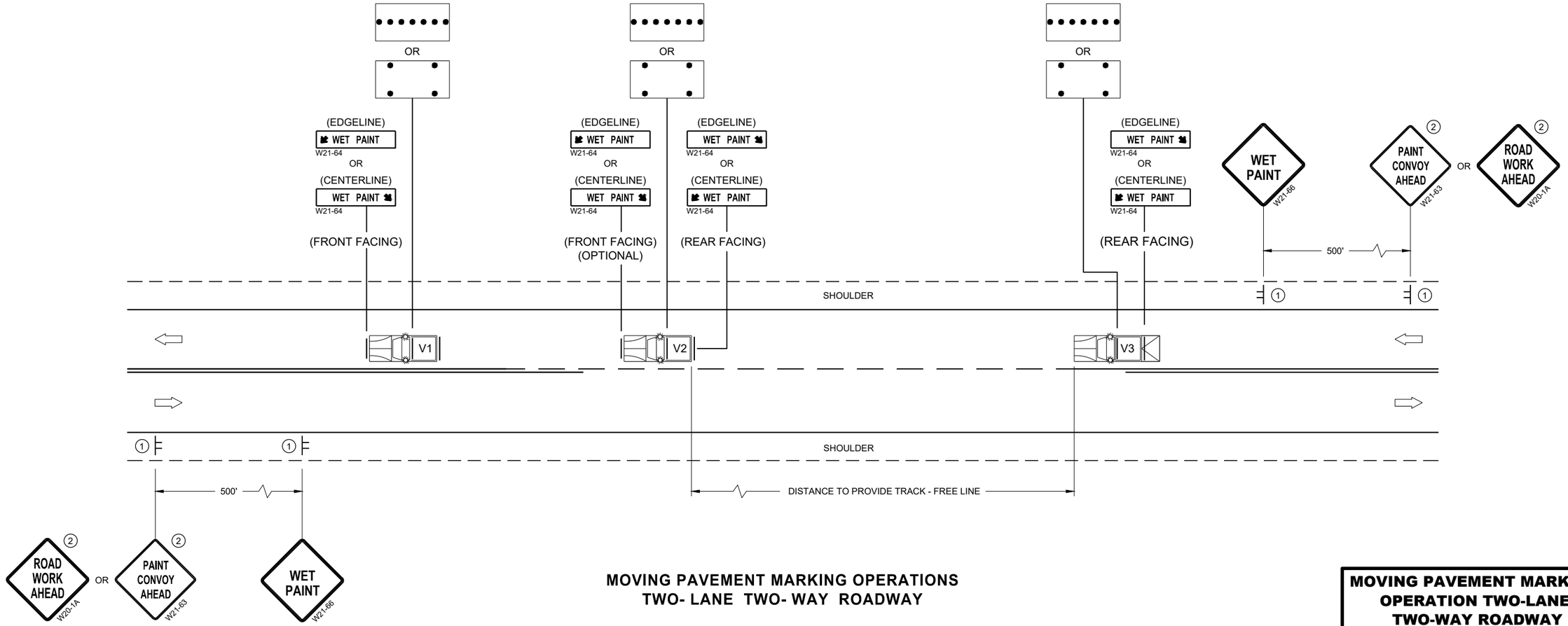
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 18" FOR WET PAVEMENT MARKING .

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

227

FHWA

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SDD 15C19 - 06a

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SDD 15C19 - 06a

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (MERGE)

FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

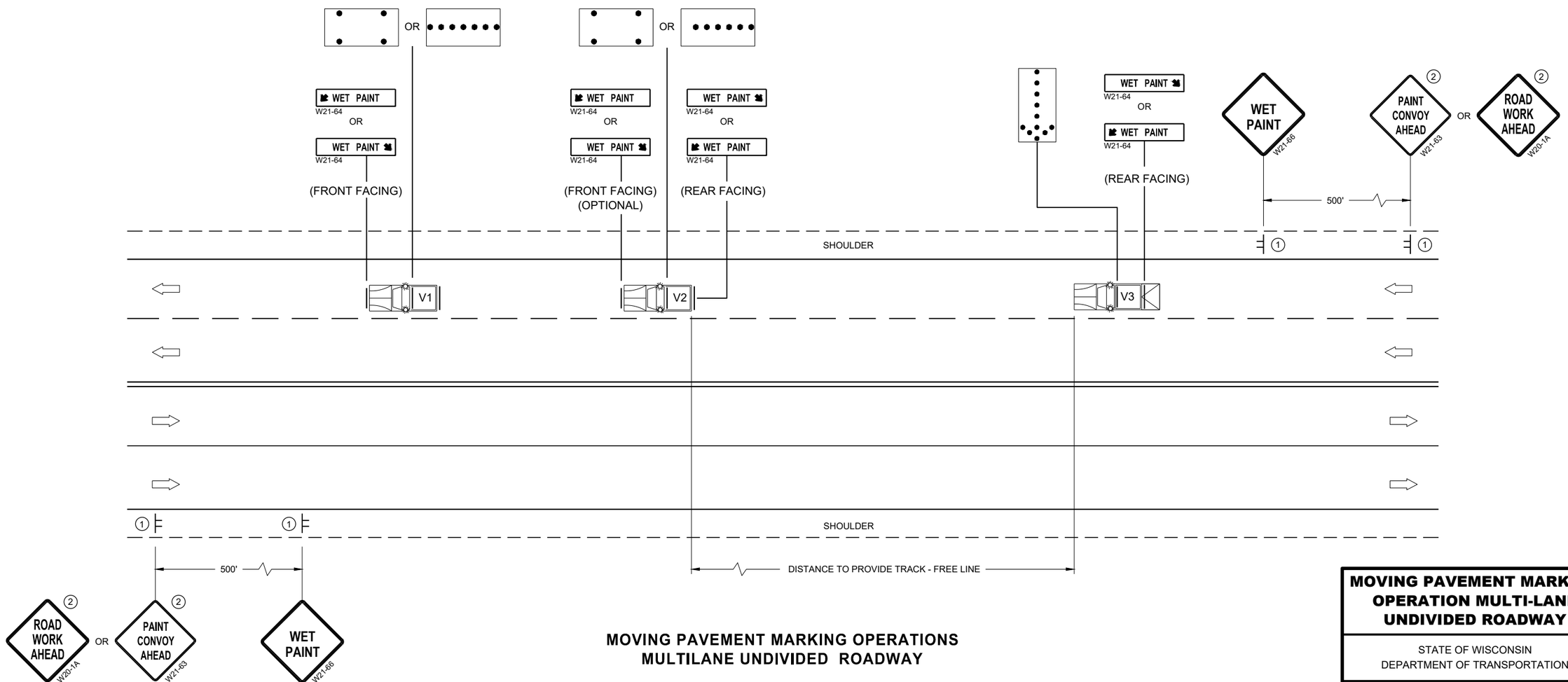
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLES AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL HAVE A MINIMUM HEIGHT OF 18" FOR WET PAVEMENT MARKINGS.

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS
MULTILANE UNDIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

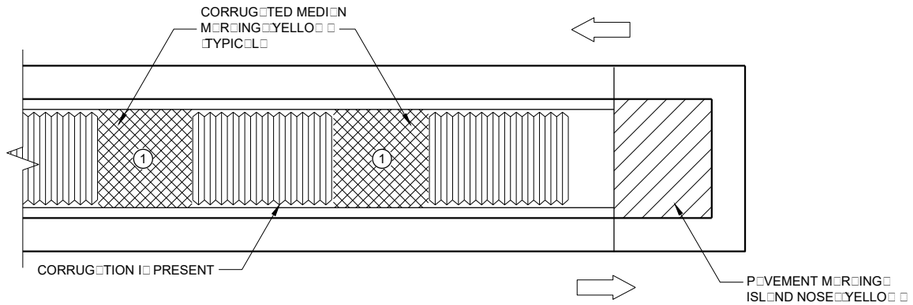
APPROVED
November 2019 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

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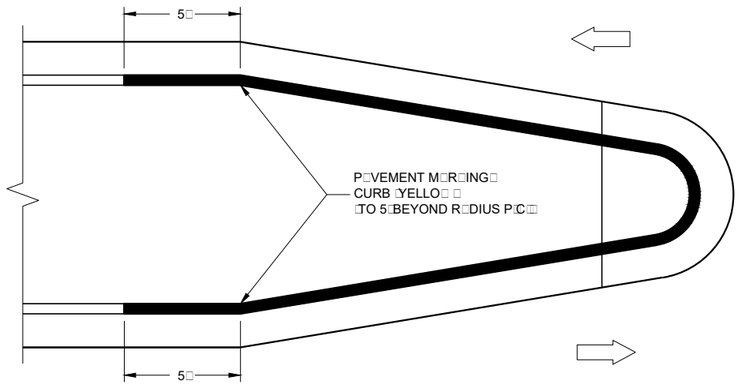
SDD 15C19 - 06b

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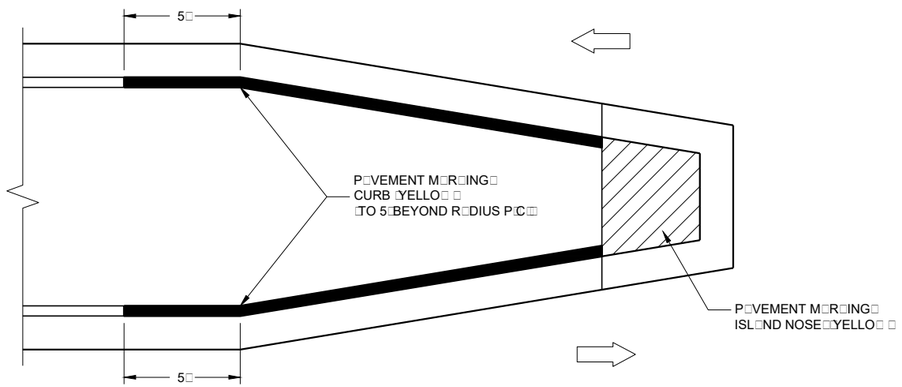
SDD 15C19 - 06b



MEDI□N ISL□ND □ ITH S□U□RE BLUNT NOSE



MEDI□N ISL□ND □ ITH ROUND BLUNT NOSE



MEDI□N ISL□ND □ ITH SLOPED NOSE

TYPICAL PLACEMENT OF
PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

□ HEN CONCRETE CORRUG□TED MEDI□N IS CONSTRUCTED TO SEP□R□TE TR□□□IC OPER□TING IN THE OPPOSING DIRECTION□YELLO□ P□VEMENT M□R□ING SH□LL BE □PPLIED TO THE □L□T PORTION O□ THE CONCRETE CORRUG□TED MEDI□N□THE ITEM O□ P□VEMENT M□R□ING□CONCRETE CORRUG□TED MEDI□N□□ ILL BE ME□SURED IN PL□CE □ND □CCEPTED IN □CCORD□NCE □ ITH THE CONTR□CT □ND P□ID □OR □T THE CONTR□CT UNIT PRICE PER S□U□RE □OOT□

ISL□ND NOSE M□R□ING

CURB M□R□ING

CORRUG□TED MEDI□N M□R□ING

DIRECTION O□ TR□VEL

PAVEMENT MARKINGS
(ISLANDS)

ST□TE O□ □ ISCONSIN
DEP□RTMENT O□ TR□NSPORT□TION

□PPROVED

□□□1□
D□TE

□S□ M□□□□□ R□R□□□□
ST□TE SIGNING □ND M□RK
ENGINEER

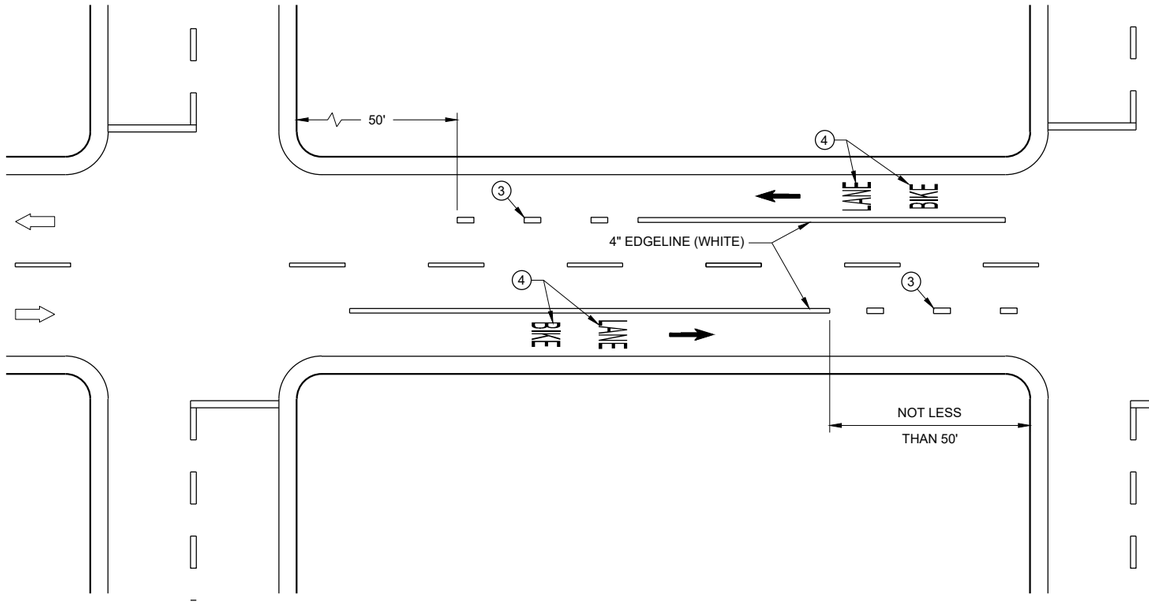
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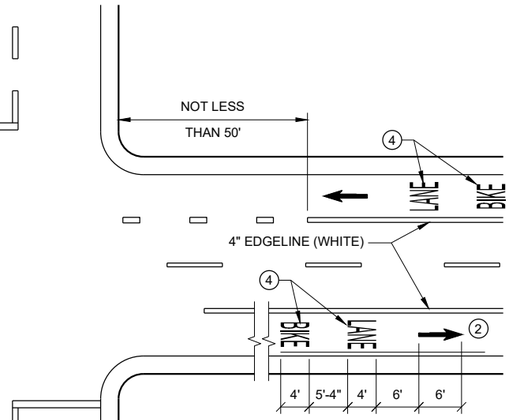
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SDD 15C27 - 03b

SDD15C27 - 03b



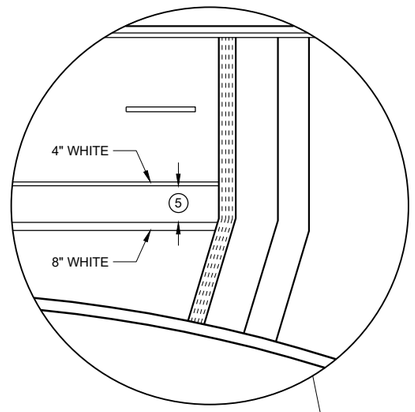


GENERAL NOTES

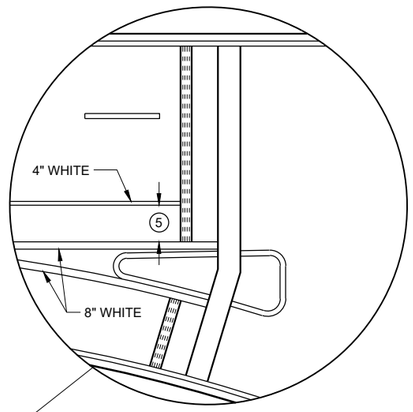
1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. BIKE SYMBOLS OR WORDS MAY BE USED.
5. BIKE ACCOMMODATION IS TYPICAL 5 FEET WIDE AND MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT ≥ 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FOOT WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

DIRECTION OF TRAFFIC

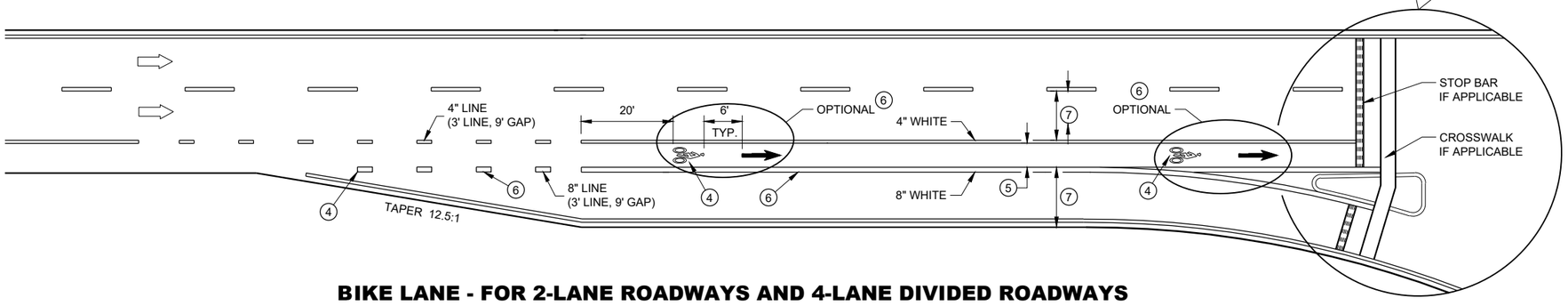
DESIGNATED BIKE LANE - NO PARKING



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

BIKE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

FHWA

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SDD 15C29 - 07a

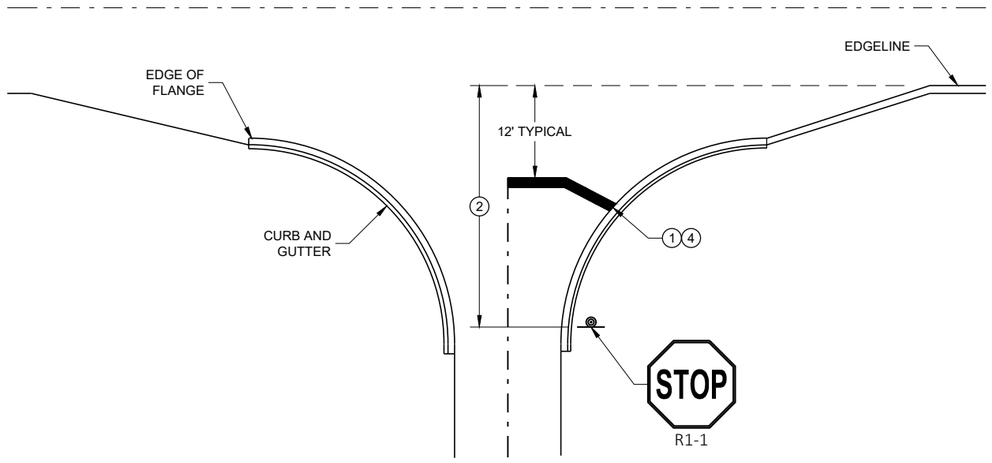
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SDD 15C29 - 07a

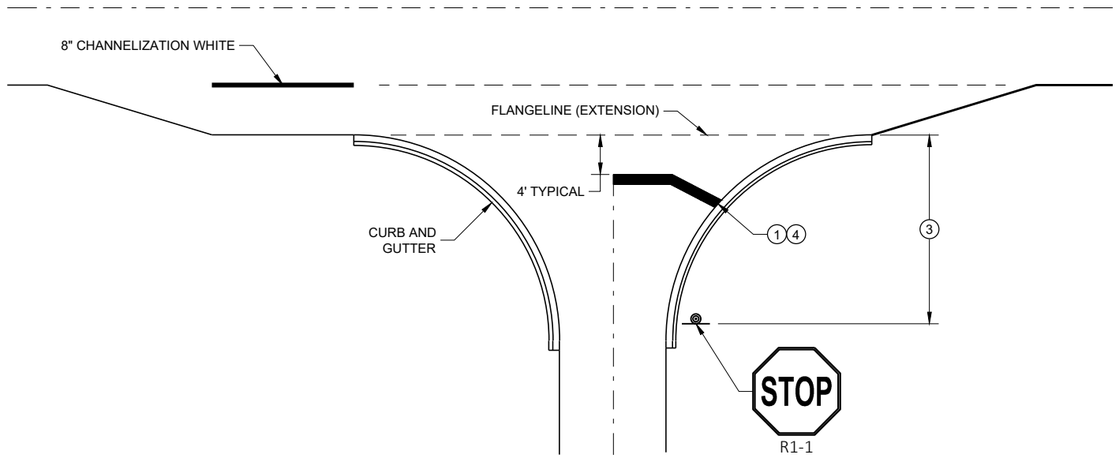
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

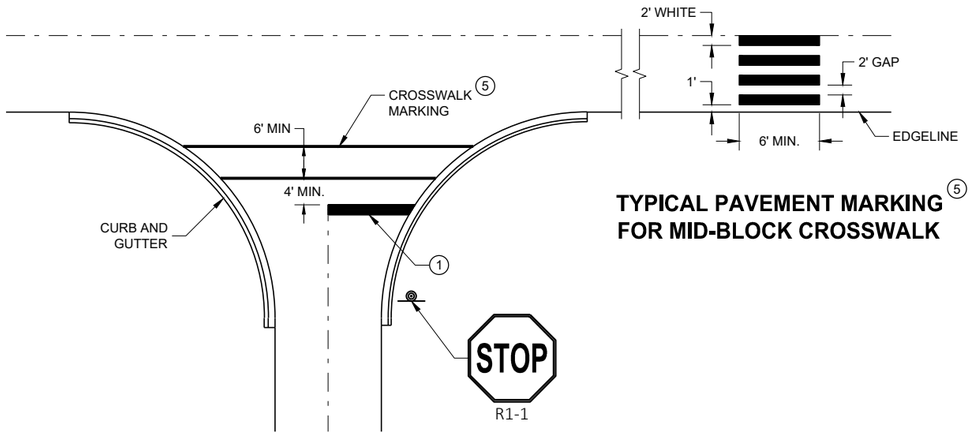
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

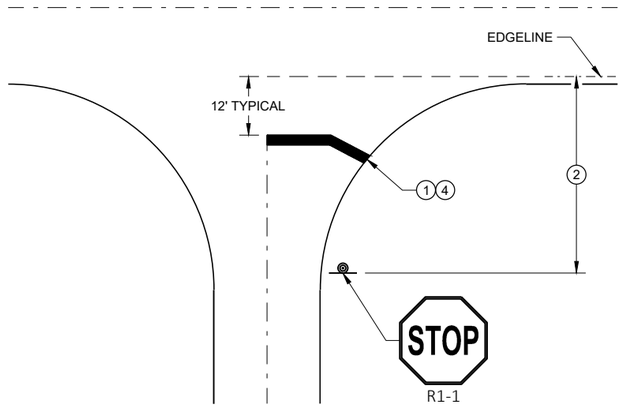


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER
FHWA

6
SDD 15C33 - 04

LEGEND

SIGN ON PERMANENT SUPPORT

DELINEATOR, FLEXIBLE/TUBULAR MARKER

DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50 FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4 INCH DOUBLE YELLOW.



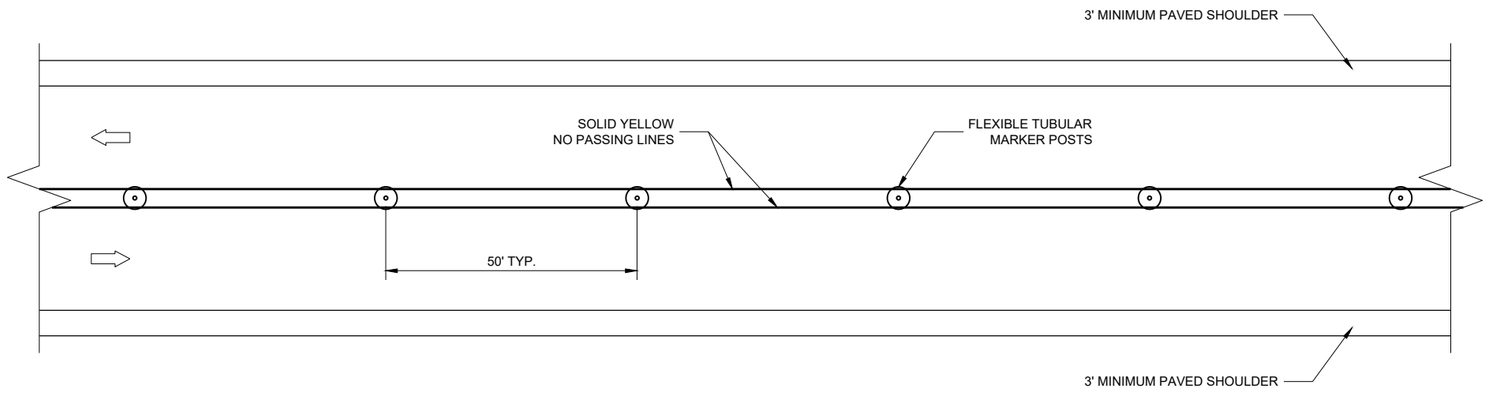
(1)



(2)

(1) THE WO6-3 AND WO57-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND / OR 500 FEET BEYOND ANY SIDE ROAD. THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE WO6-3 AND THE WO57-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN THE SIGNS.

(2) CONVENTIONAL: 24" X 30"
FREEWAY AND EXPRESSWAY: 36" X 48"



TWO LANE, TWO WAY OPERATION

6

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SDD 15D06 - 04

SDD 15D06 - 04

TRAFFIC CONTROL
TWO LANE TWO WAY
OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
STATE TRAFFIC ENGINEER

FHWA

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

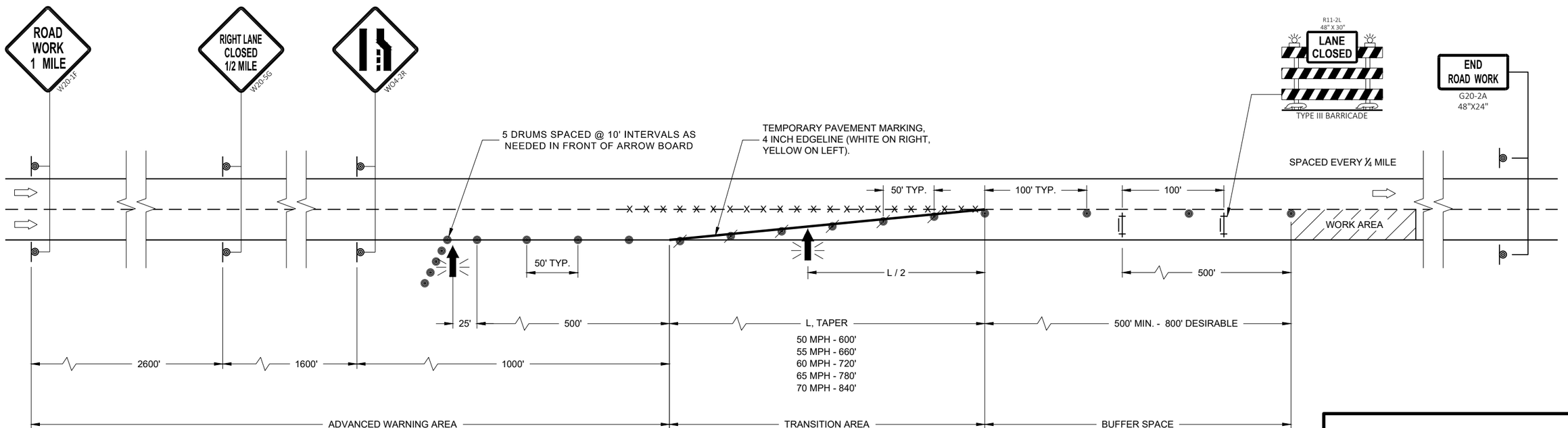
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



6

SDD 15D12 - 09a

TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D12 - 09a

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

DUE TO LACK OF SHOULDER/MEDIAN, ARROW BOARD IS PLACED AT THE THE END OF THE TAPER.

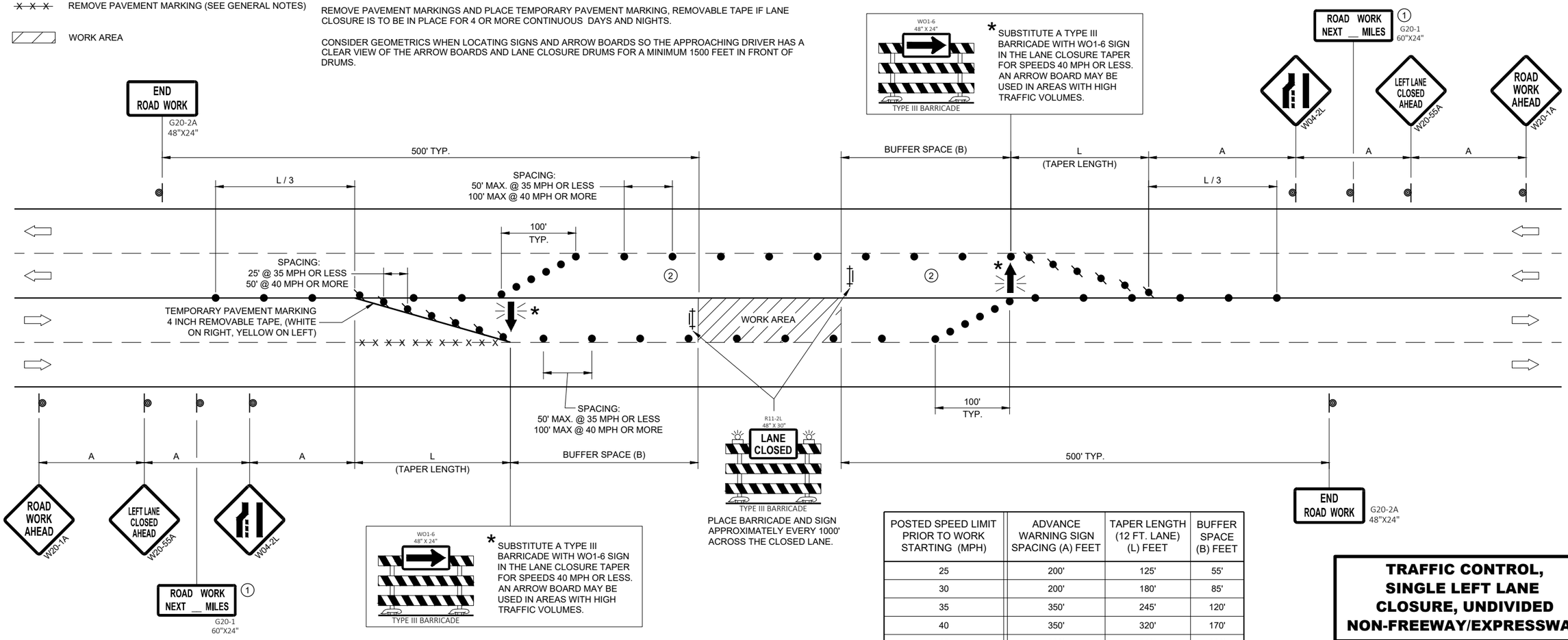
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) LANE MAY BE OPENED WHEN WORKERS ARE NOT PRESENT IN THE WORK AREA.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'
50	500'	600'	280'
55	500'	660'	335'

TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

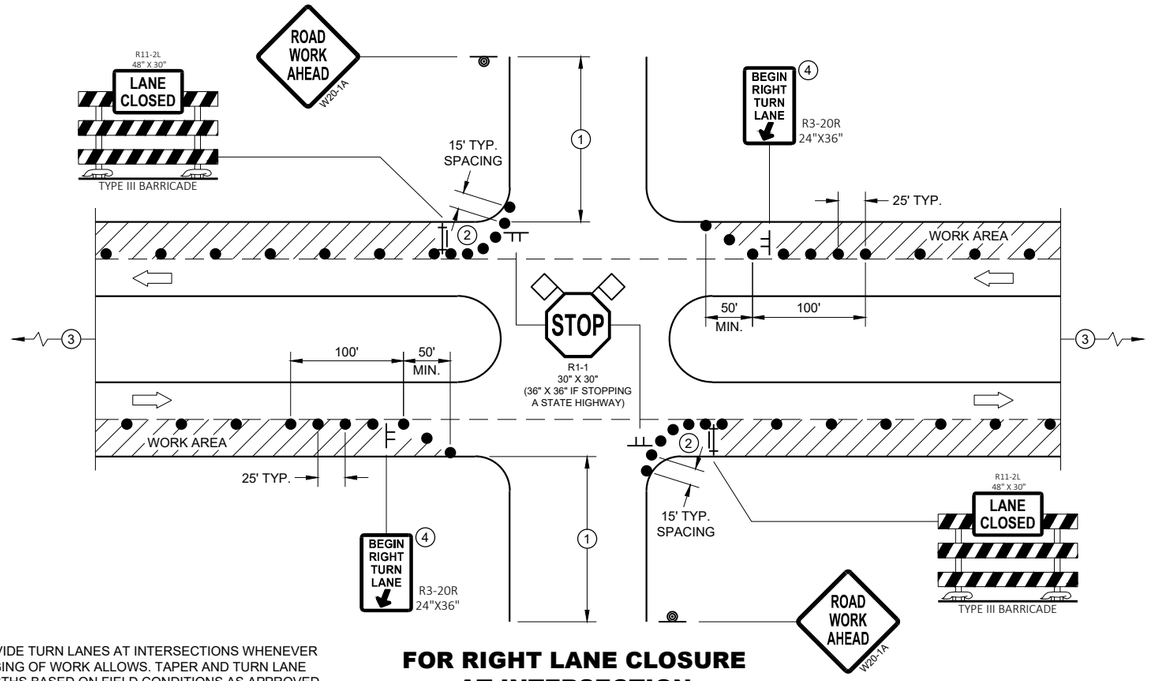
APPROVED
May 2020 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE T SAFETY ENGINEER
FHWA

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SDD 15D20 - 05c

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SDD 15D20 - 05c



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR RIGHT LANE CLOSURE AT INTERSECTION

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

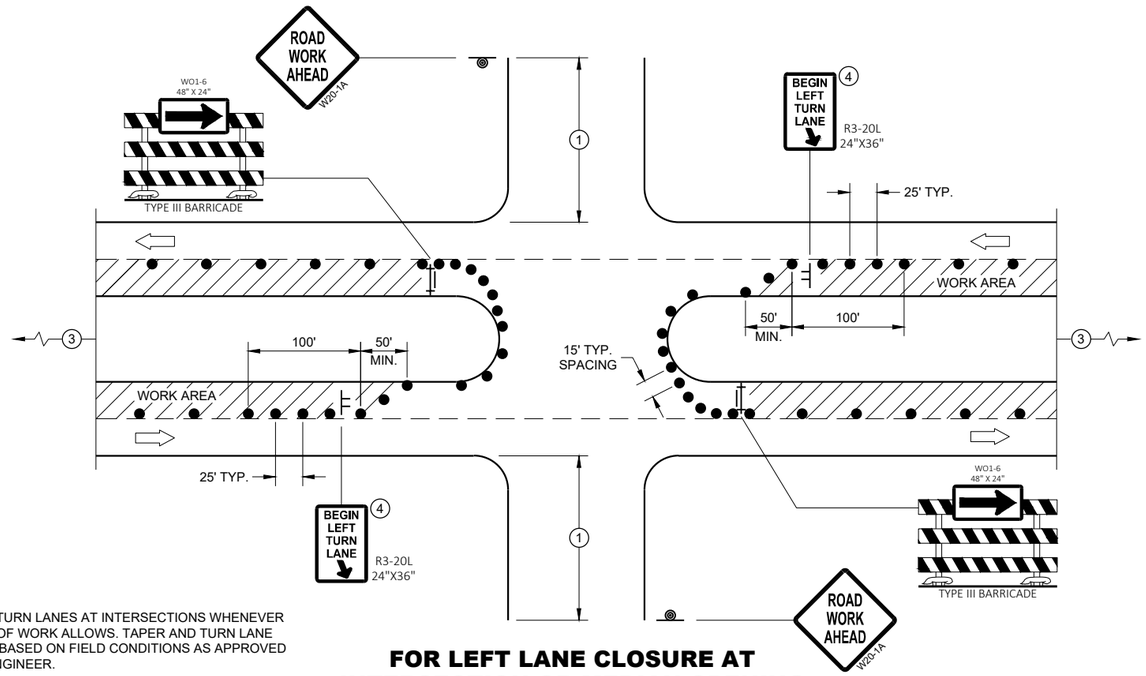
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 15D21 - 07a

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SDD 15D21 - 07a



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

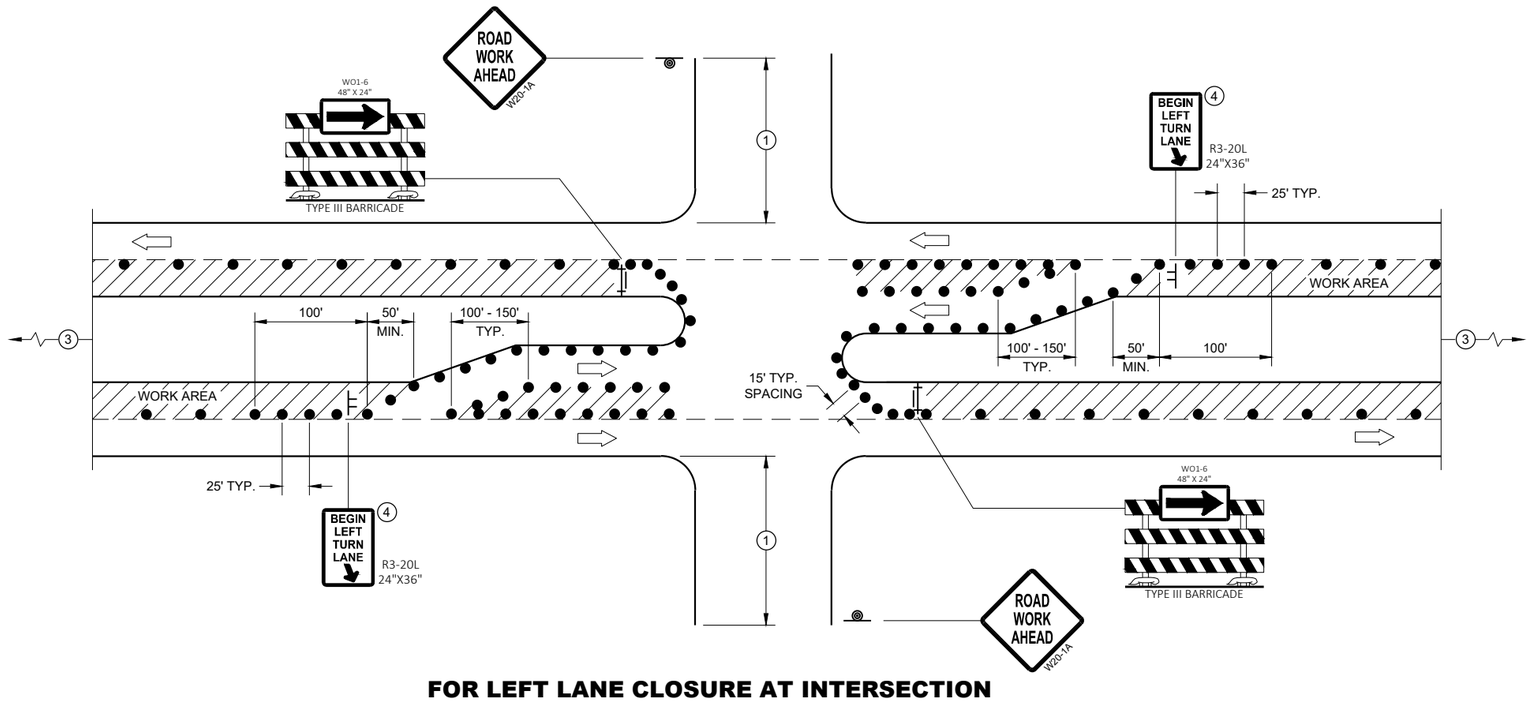
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

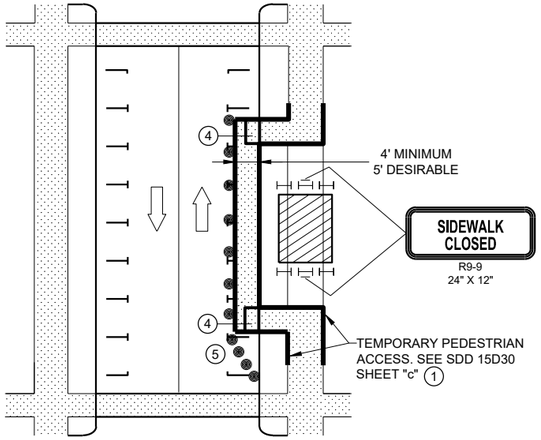
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SDD 15D21 - 07b

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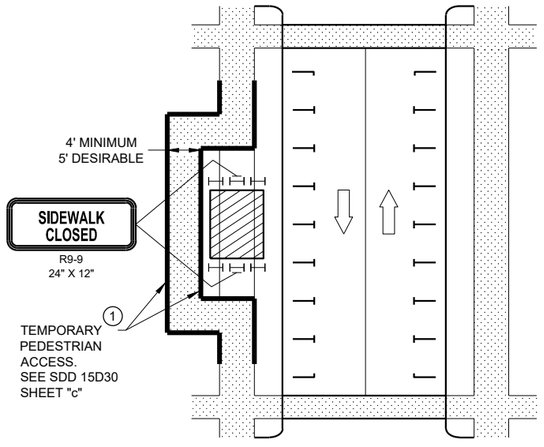
SDD 15D21 - 07b

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

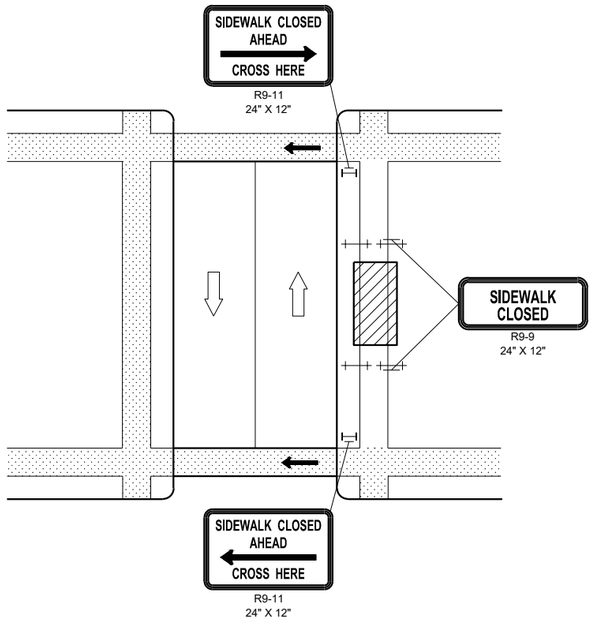


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

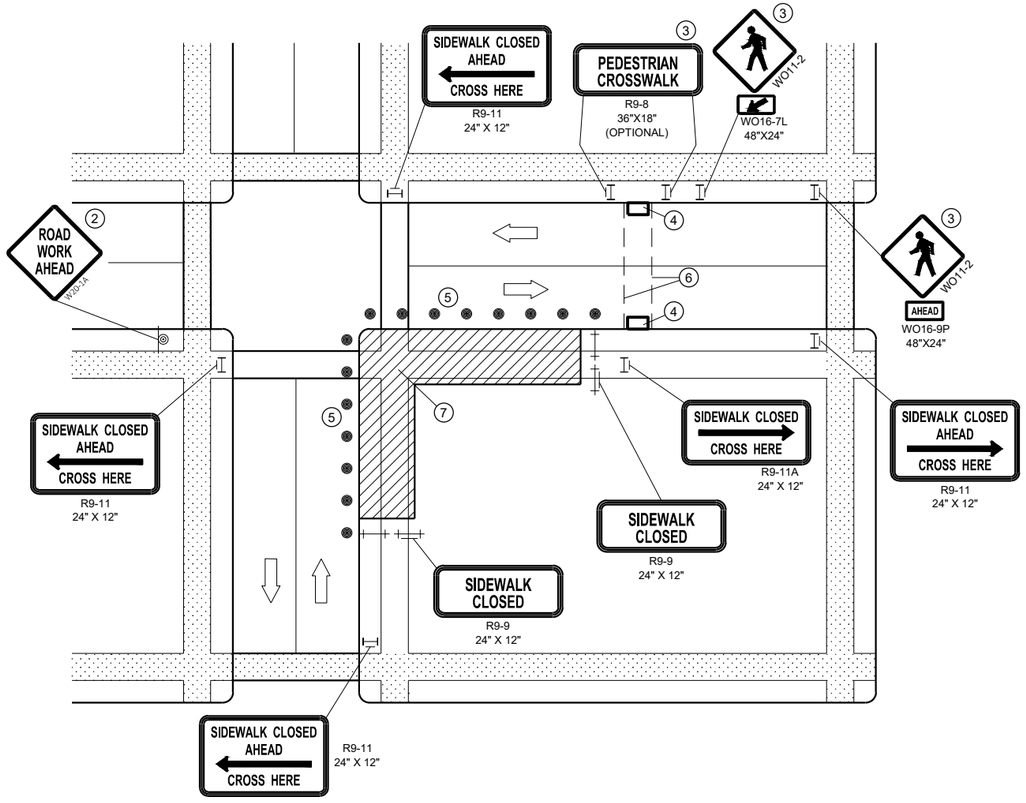
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN, EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE
2. "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.
3. IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.
4. TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.
5. DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
6. TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
7. LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

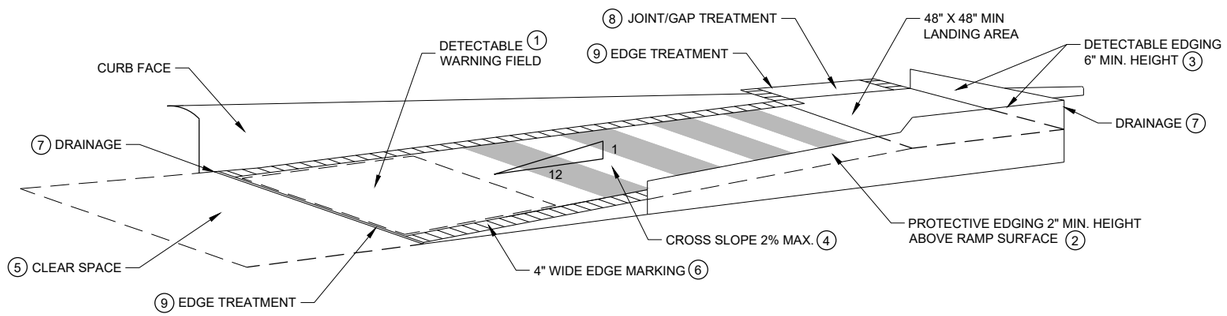
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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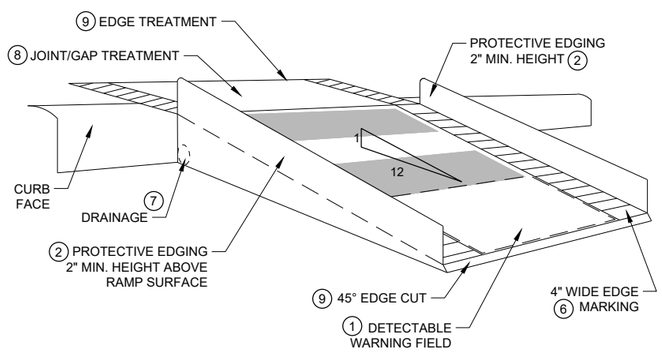
SDD 15D30 - 06a

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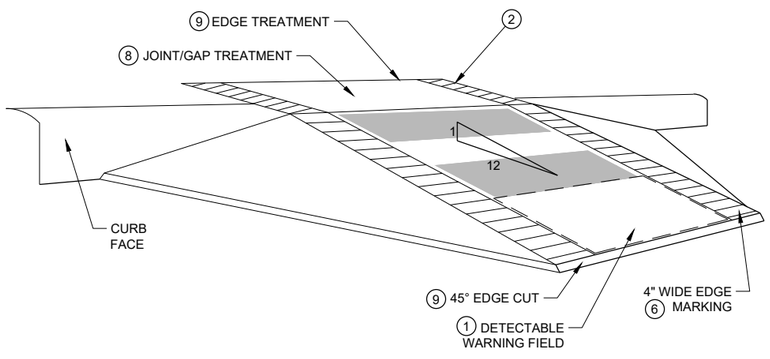
SDD 15D30 - 06a



TEMPORARY CURB RAMP PARALLEL TO CURB



WITH PROTECTIVE EDGE



WITH SIDE APRON

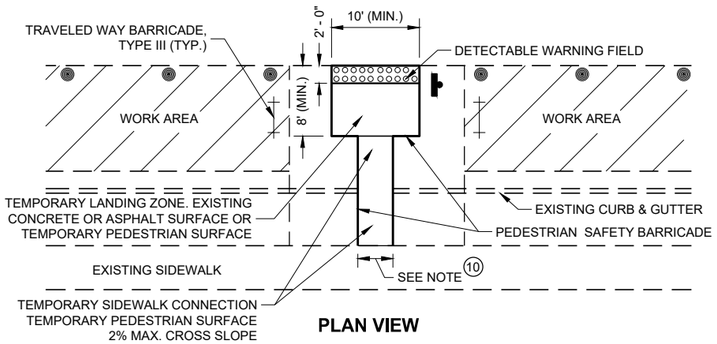
TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

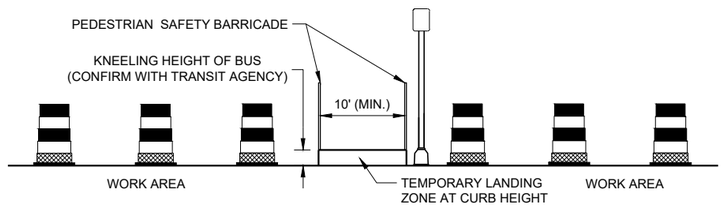
NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
5. CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
7. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
10. 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

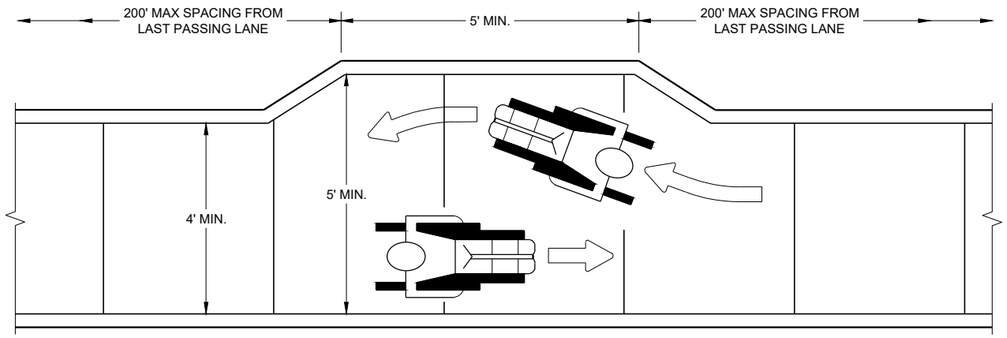
LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- WORK AREA

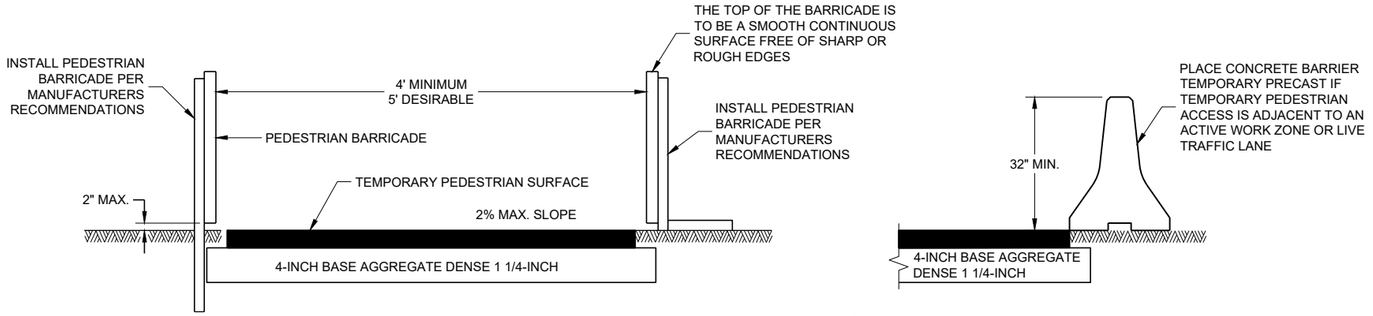
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

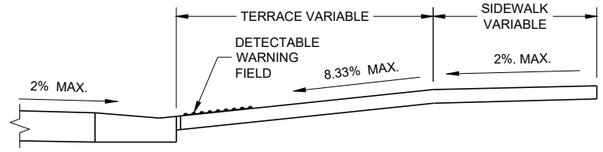
SDD 15D30 - 06b



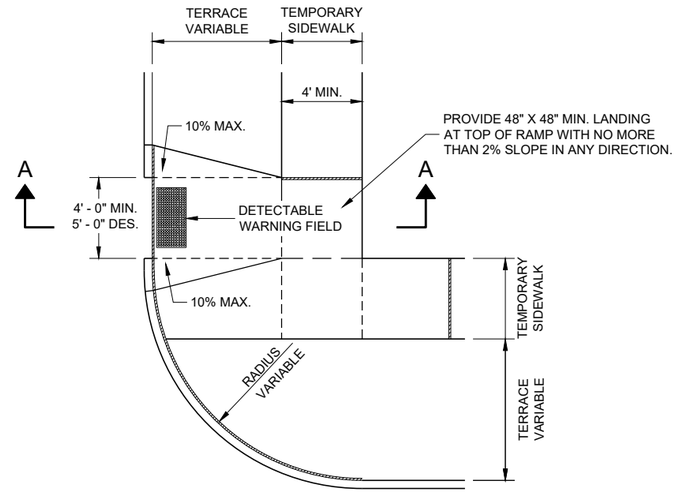
NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN ACCESS



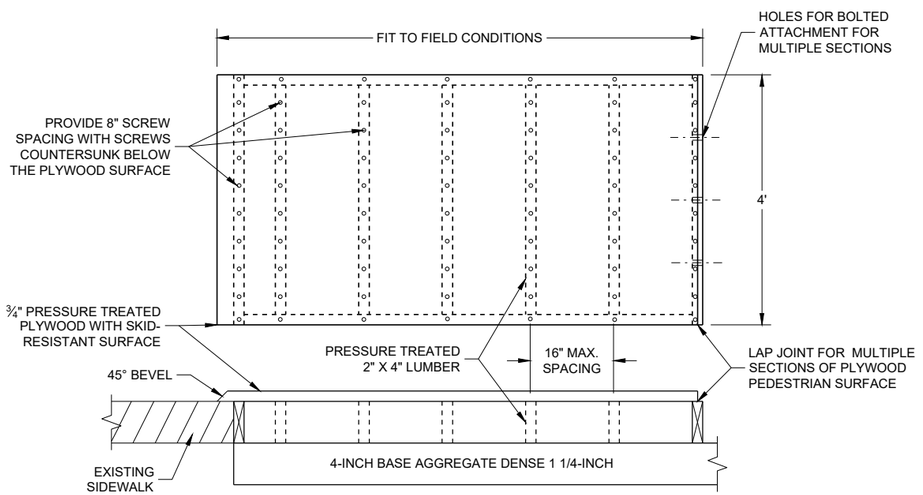
SECTION A - A



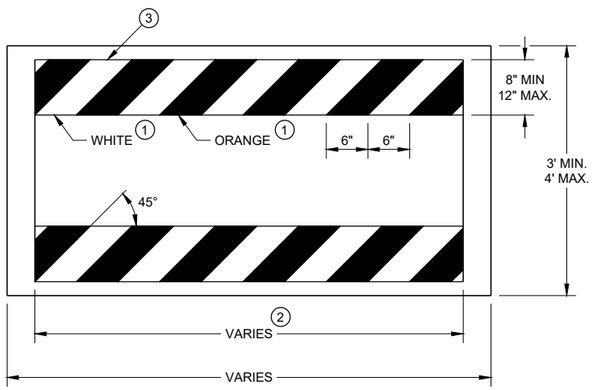
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



TEMPORARY PEDESTRIAN BARRICADE *

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

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

(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

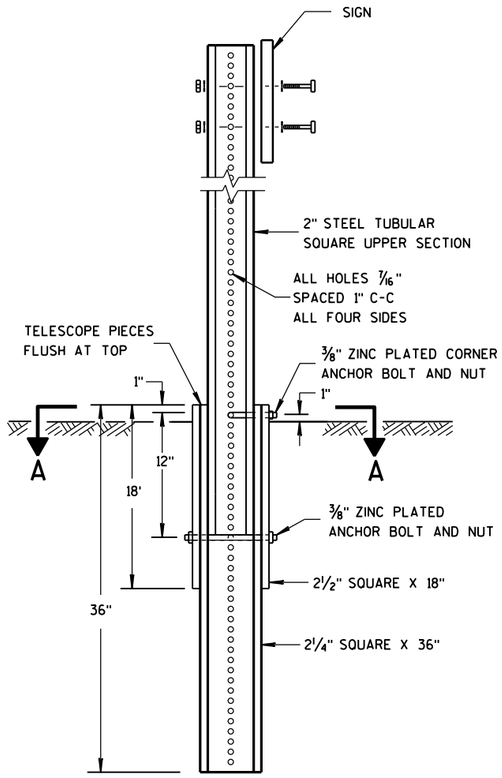
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

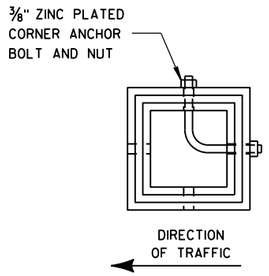
SDD 15D30 - 06c

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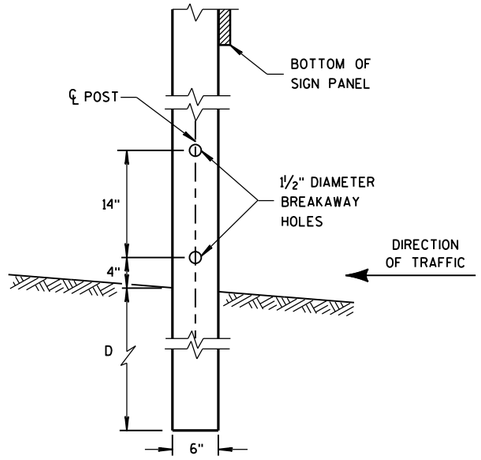
SDD 15D30 - 06c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



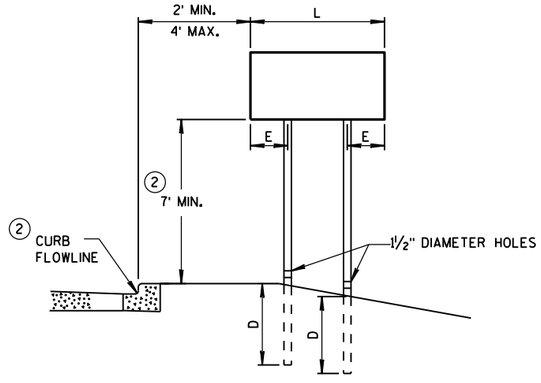
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

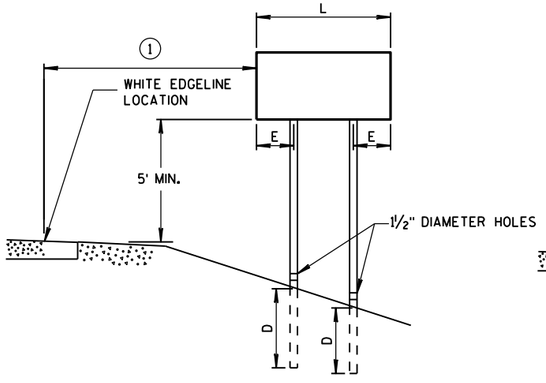
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

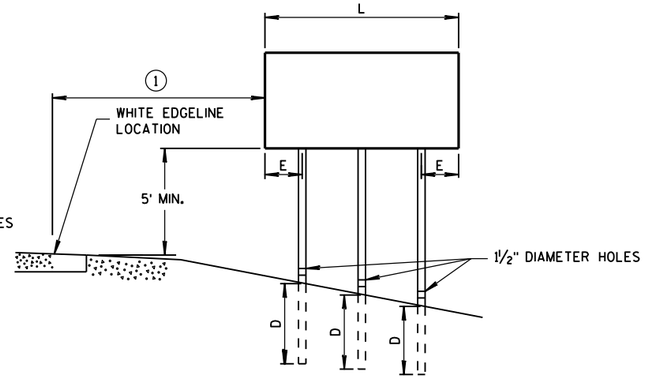
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

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

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

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

4" X 6" WOOD POST

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

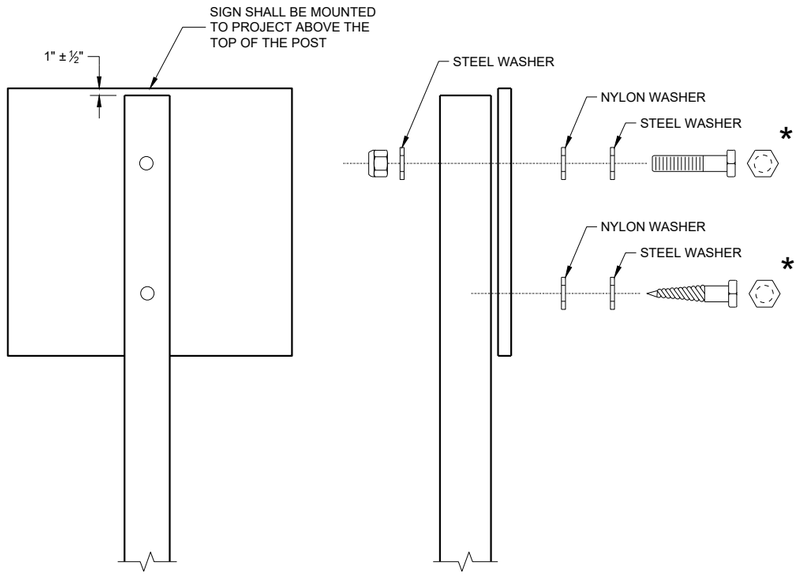
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-2a



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

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

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

WOOD POST (4" x 6")
LAG SCREWS - ⅜" x 3"
MACHINE BOLTS - 5/16" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
MACHINE BOLTS - ⅜" x 3 ¼" LENGTH W/NUTS
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
1 ¼" O.D. x ⅜" I.D. x 1/16" STEEL
1 ¼" O.D. x ⅜" I.D. x 0.080 NYLON

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

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SDD 15D38 - 02b

SDD15D38 - 02b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR SHIFTING RIGHT LANE - REVERSE FOR SHIFTING LEFT LANE.

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

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

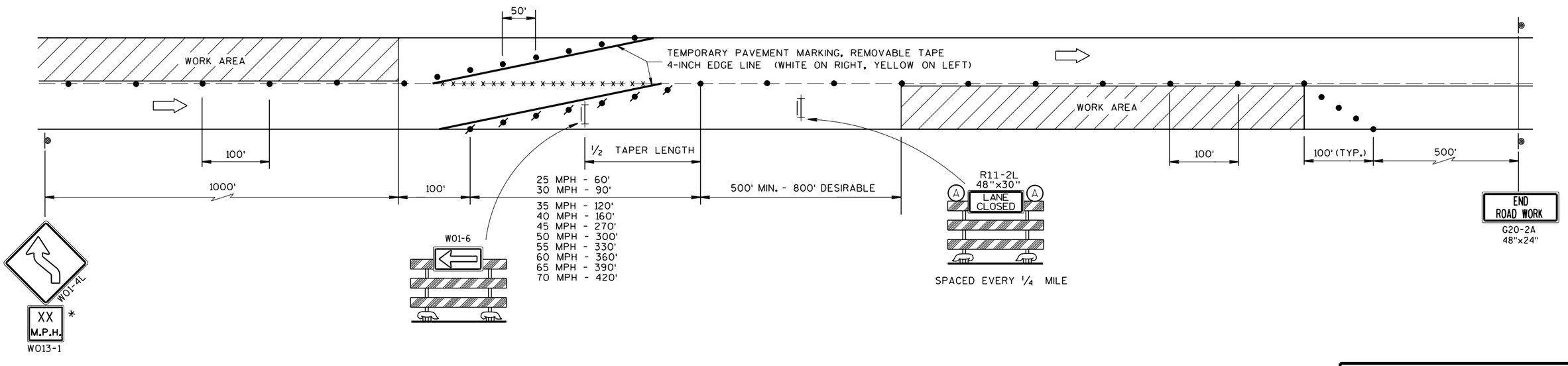
FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.



* USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED

LANE SHIFT MULTI-LANE DIVIDED OR ONE WAY ROAD

TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE WAY ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE
/S/ Andrew I
WORK ZONE E
FHWA

6

S.D.D. 15 D 40-1

LEGEND

- EXISTING SIGN ON PERMANENT SUPPORT
- NEW SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK ZONE

GENERAL NOTES

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

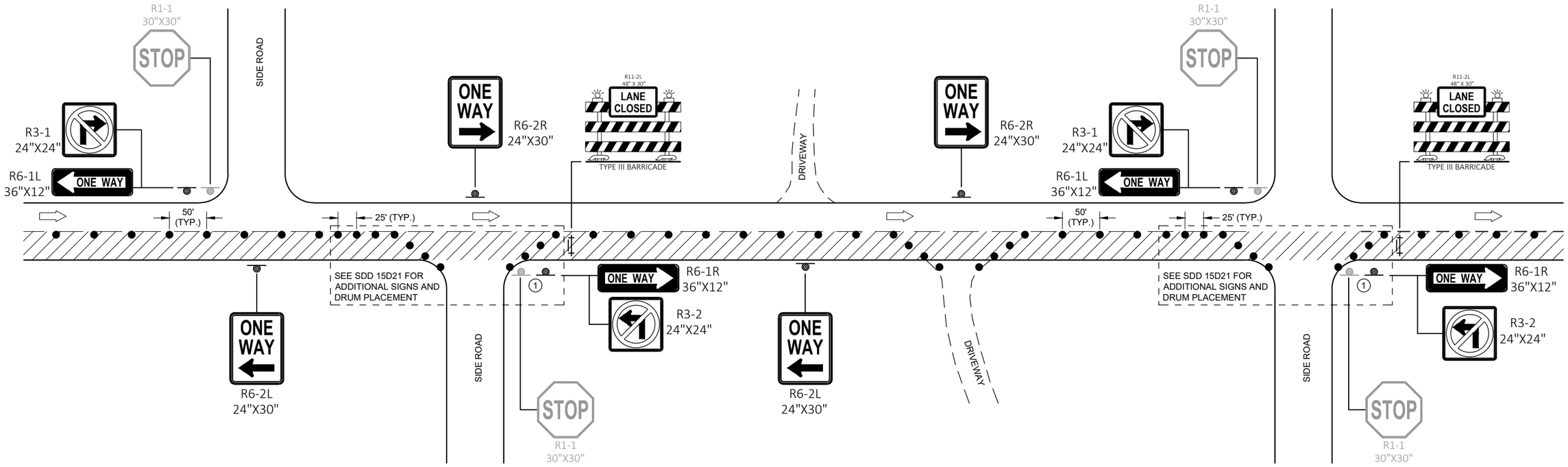
ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) IF WORK OPERATIONS ALLOWS, MOVE R1-1, R6-1R, AND R3-2 CLOSER TO INTERSECTION.



TRAFFIC CONTROL
ONE - WAY SIGNING

TRAFFIC CONTROL
ONE-WAY SIGNING

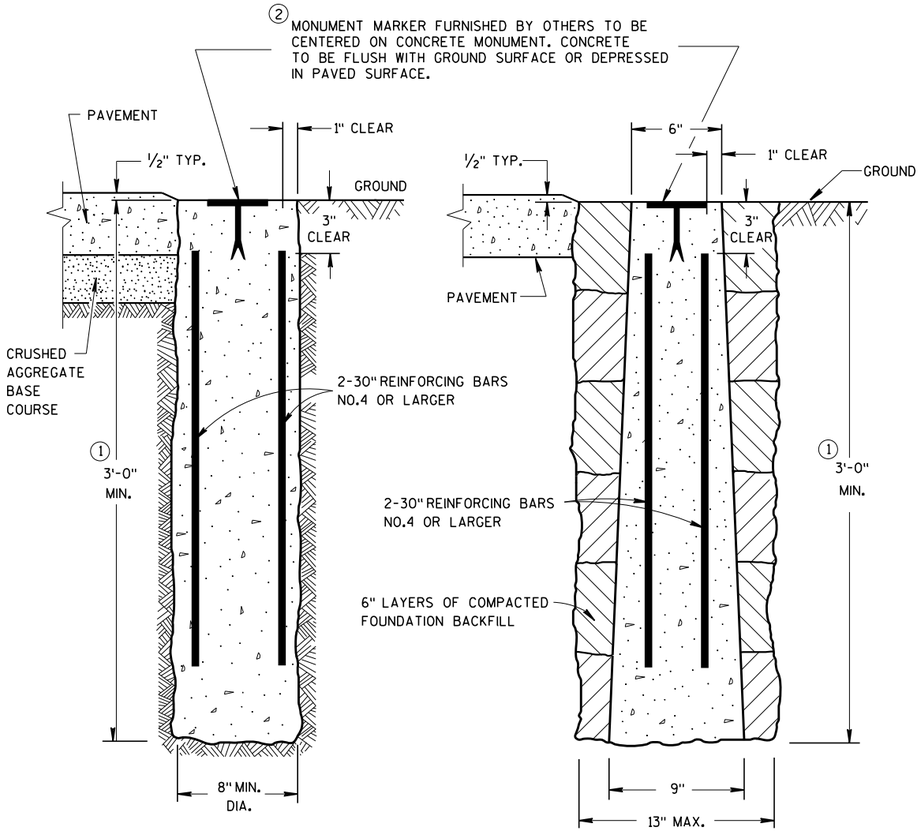
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

SDD 15D46 - 01

SDD 15D46 - 01

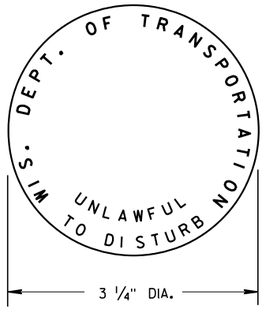


CAST-IN-PLACE

PRECAST

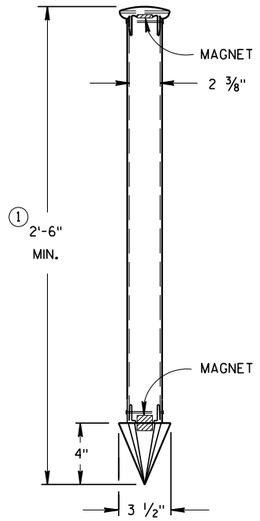
CONCRETE MONUMENTS

TYPE A



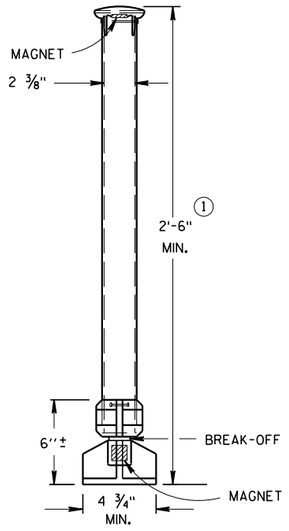
② **WIS DOT MONUMENT MARKER LOGO**

FOR TYPES "A", "C", & "D"



TYPE C

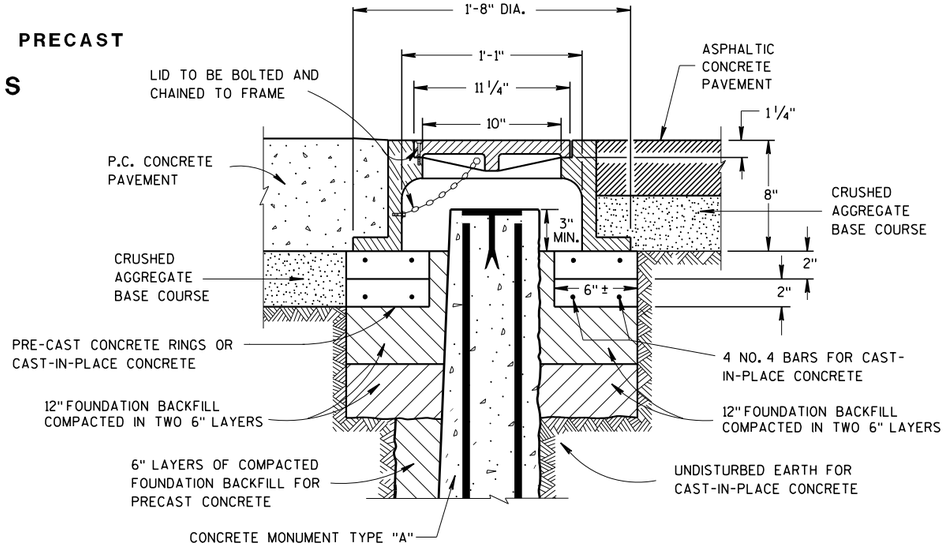
DRIVE-IN MONUMENT



TYPE D
NON-DRIVEN
BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT 95 LBS)

GENERAL NOTES

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

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

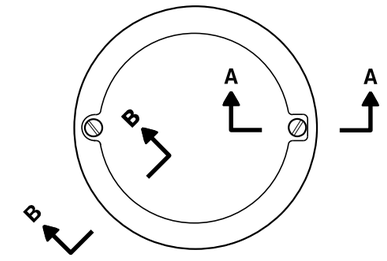
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

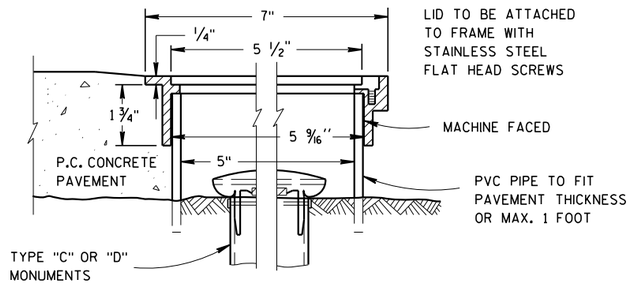
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

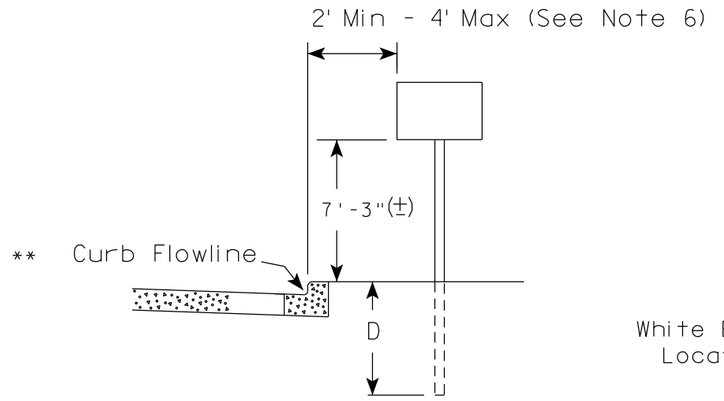
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Raymond A. [illegible] — CHIEF SURVEYING AND MAPPING ENGINEER
FHWA

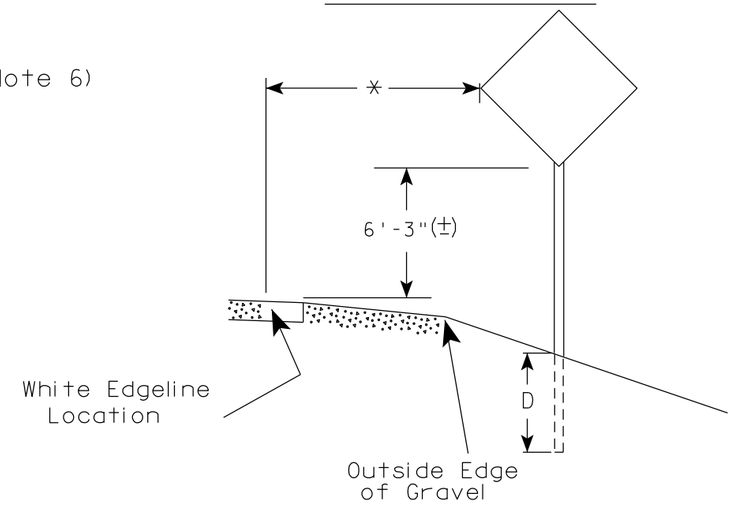
6

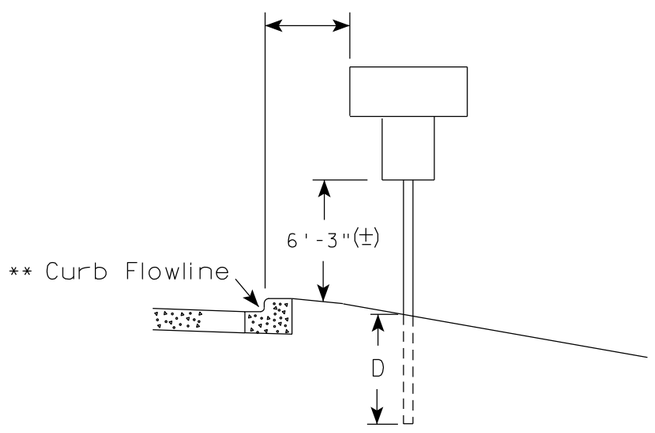
S.D.D. 16 A 1-7

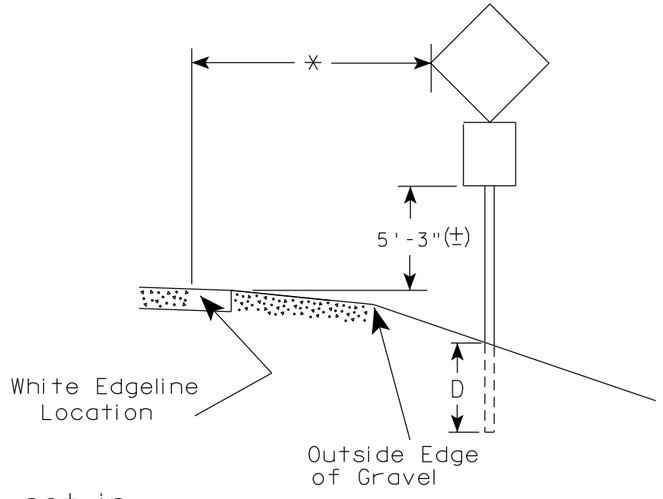
URBAN AREA



RURAL AREA (See Note 2)







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

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

POST EMBEDMENT DEPTH

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

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

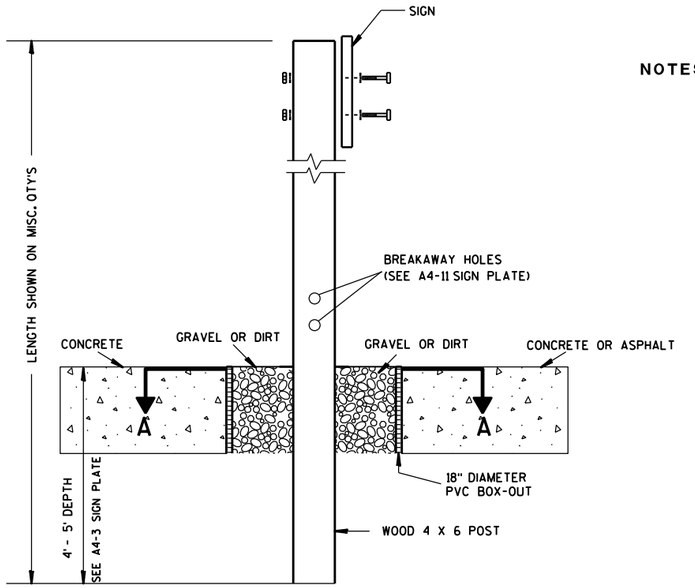
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

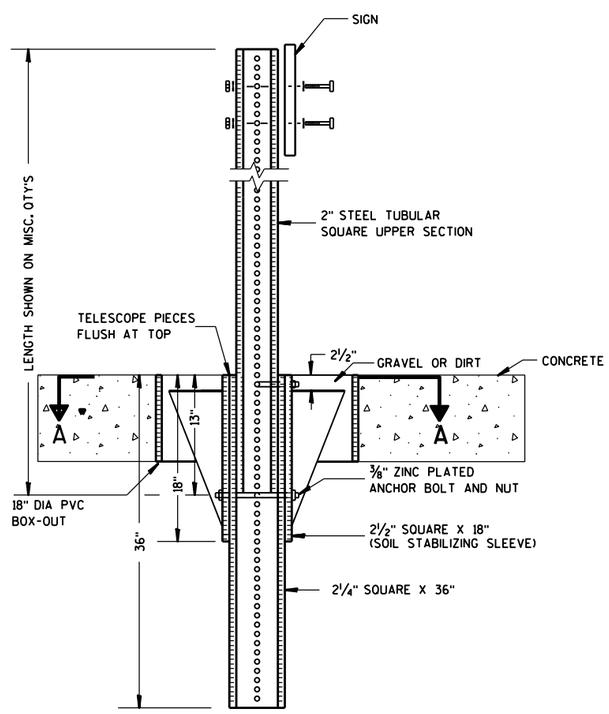
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 245	E



ELEVATION VIEW

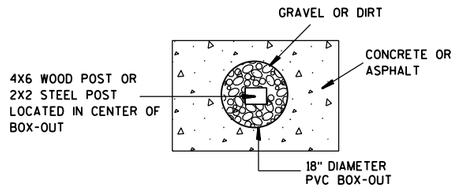
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

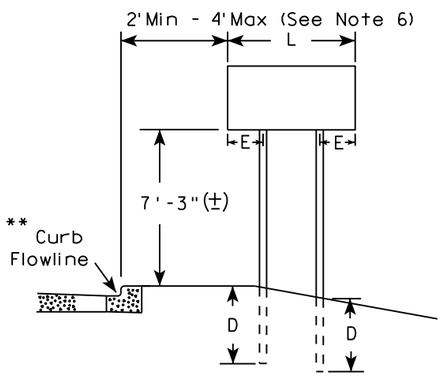
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

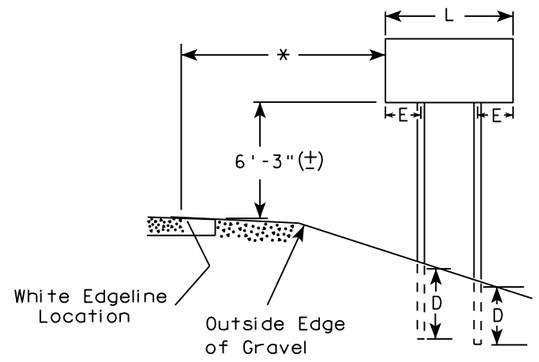
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

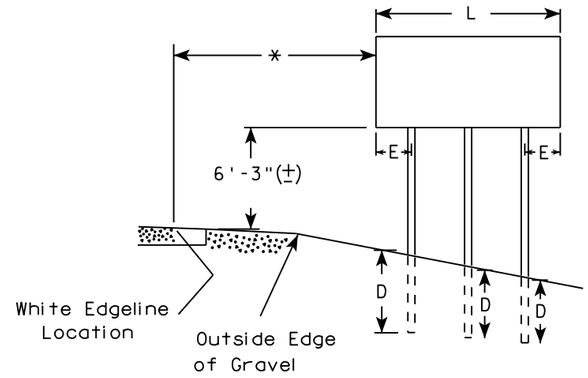
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

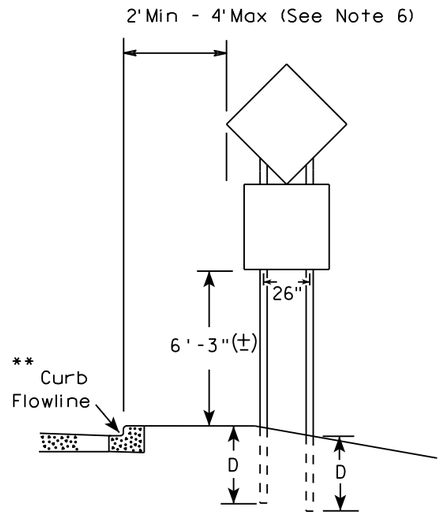
URBAN AREA



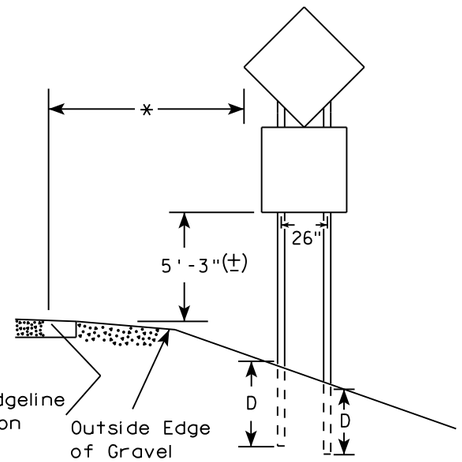
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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

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

GENERAL NOTES

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

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

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

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

POST EMBEDMENT DEPTH

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

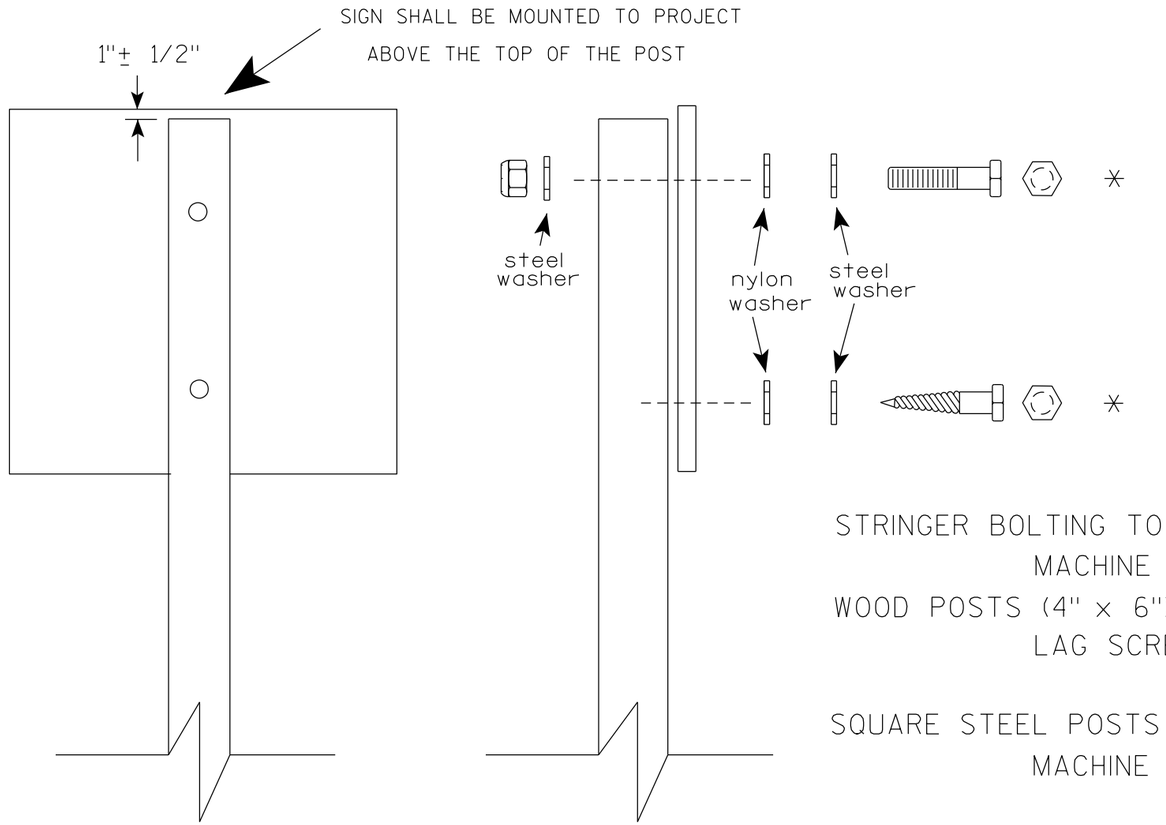
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 247	E



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

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

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

ATTACHMENT OF SIGNS TO POSTS

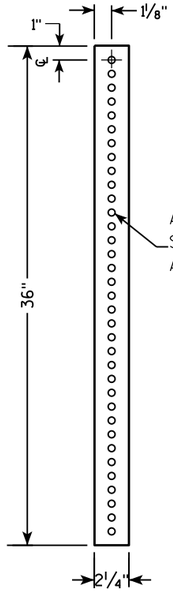
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

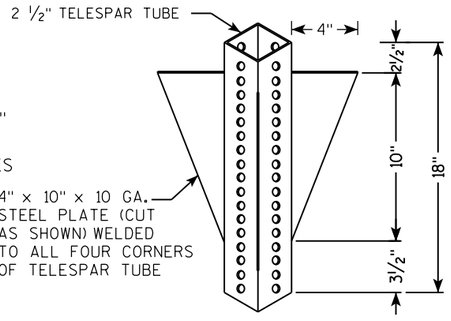
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

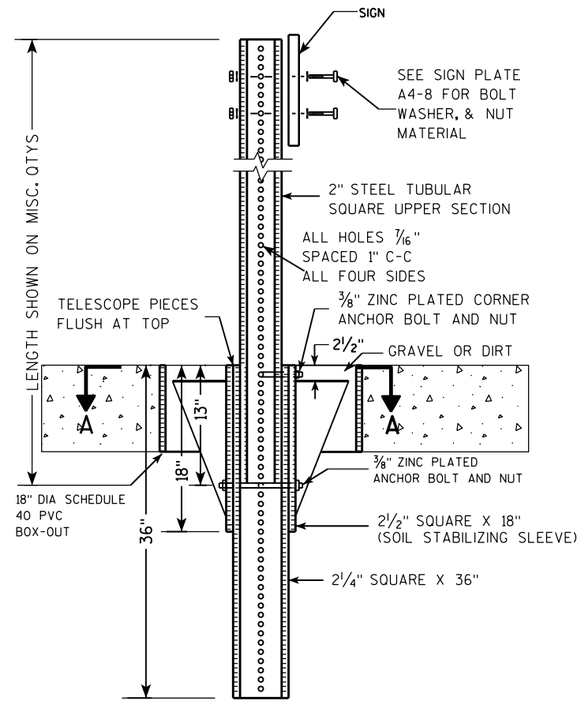
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



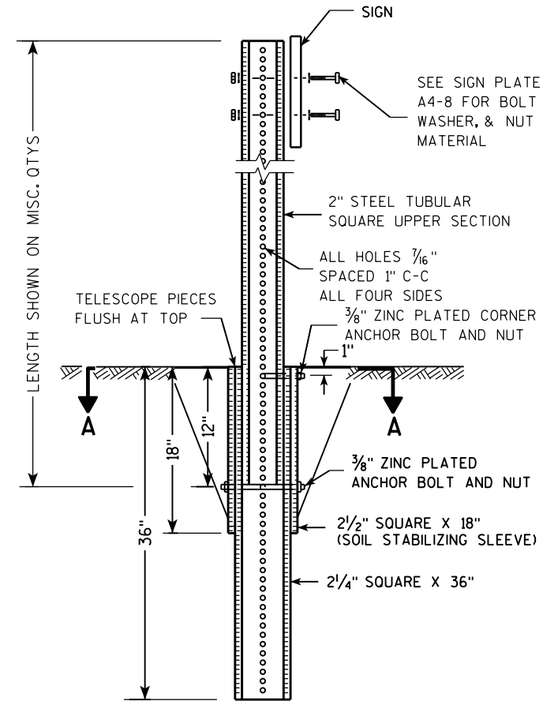
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

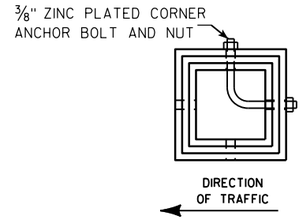


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

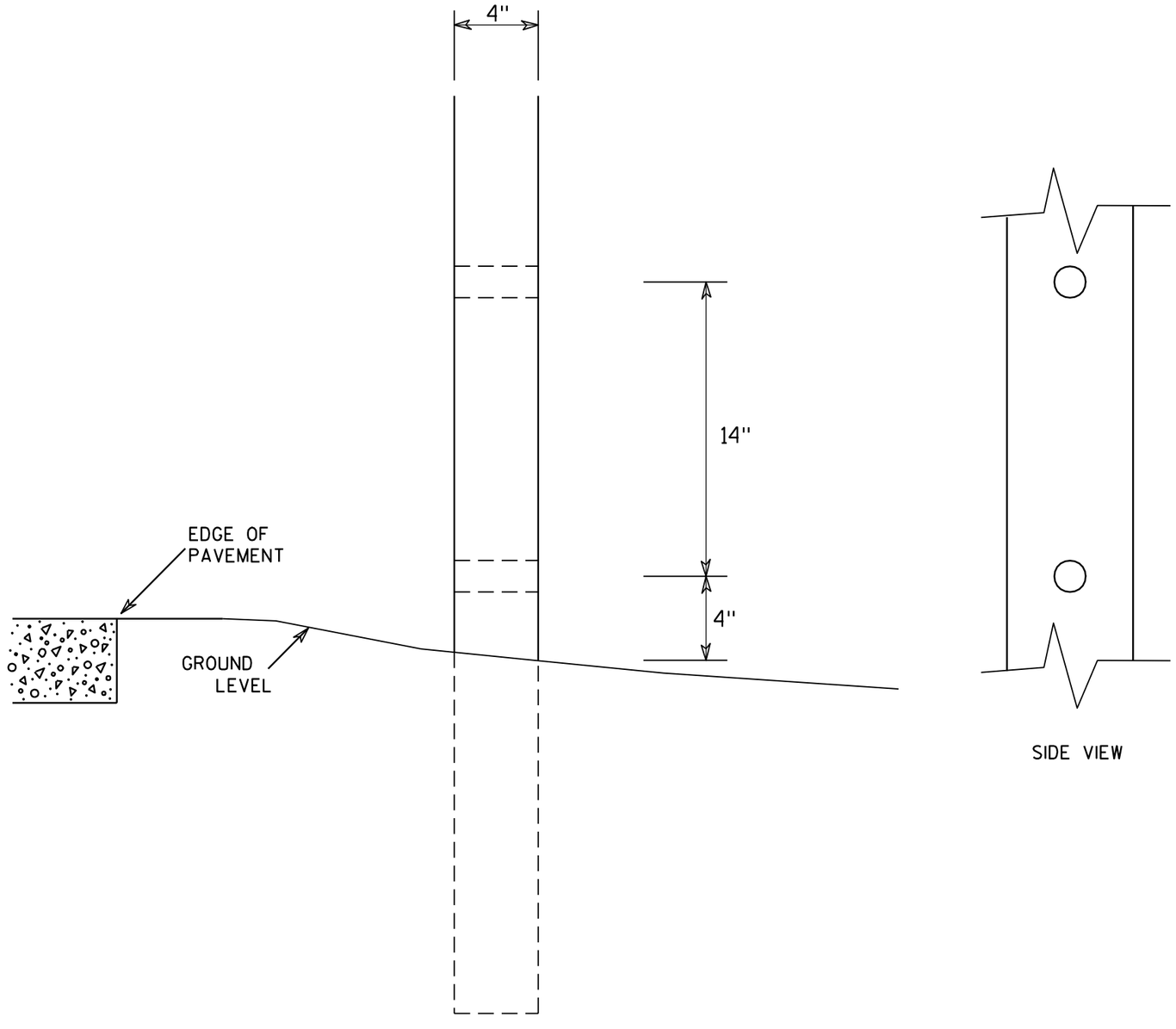
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 249 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

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

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

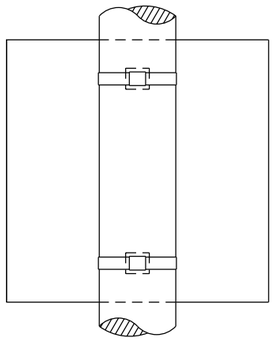
APPROVED Chester J Spang for State Traffic Engineer

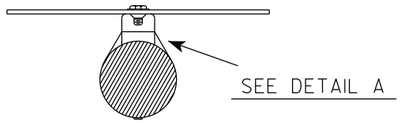
DATE 3/27/97 PLATE NO. A4-11.2

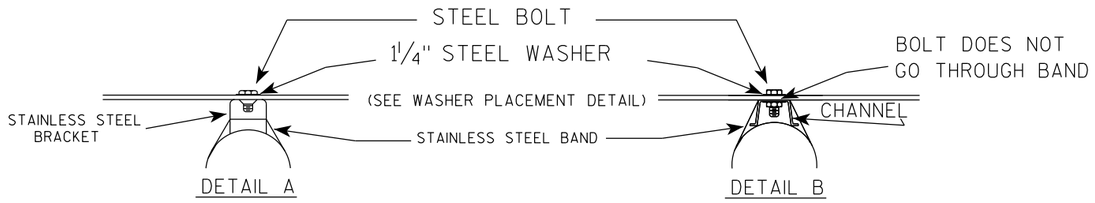
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 250	E

BANDING

SINGLE SIGN



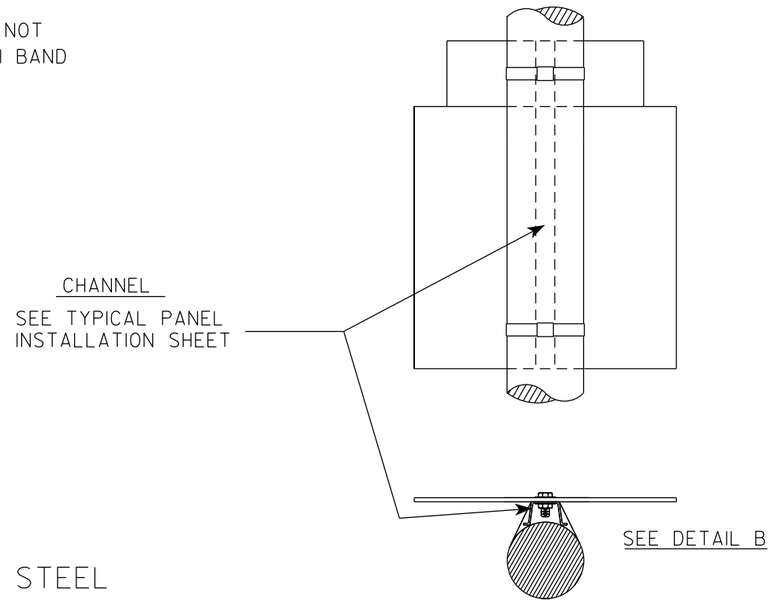




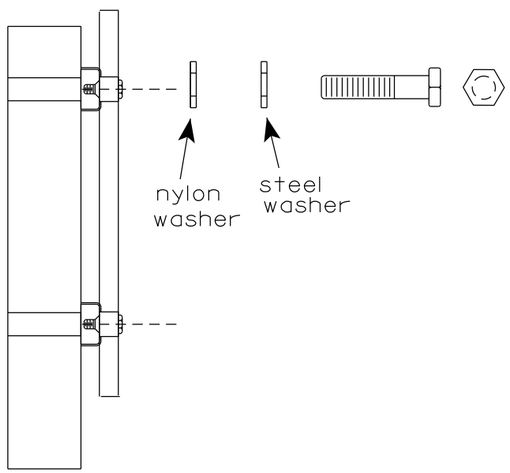
GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

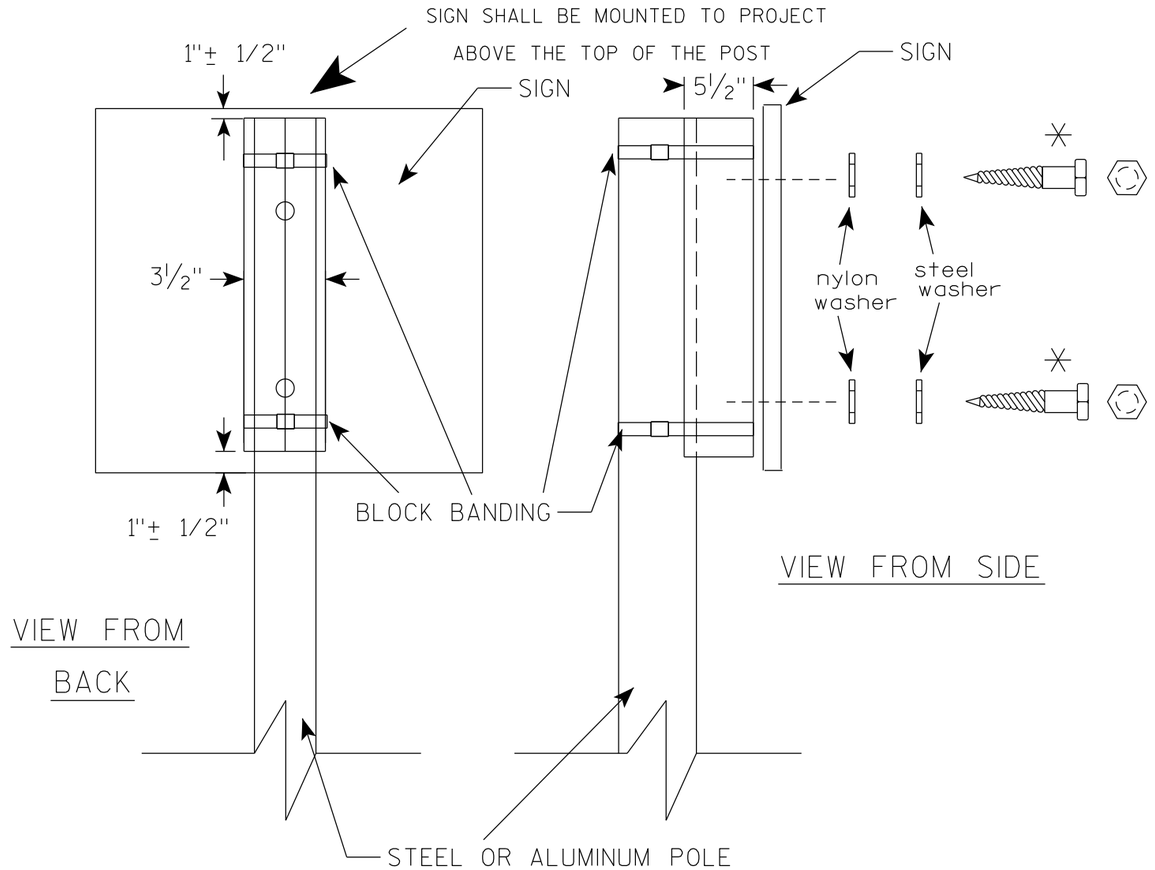
DATE 6/10/19 PLATE NO. A5-9.4

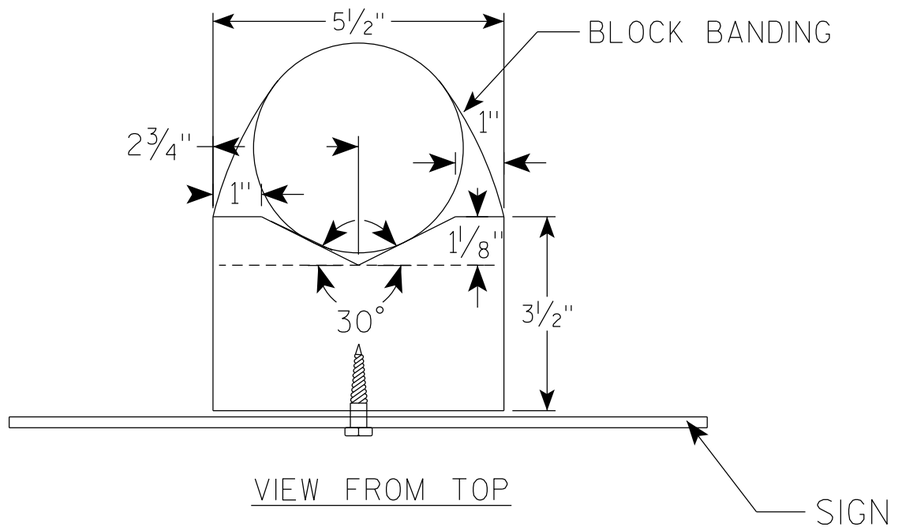
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 251	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

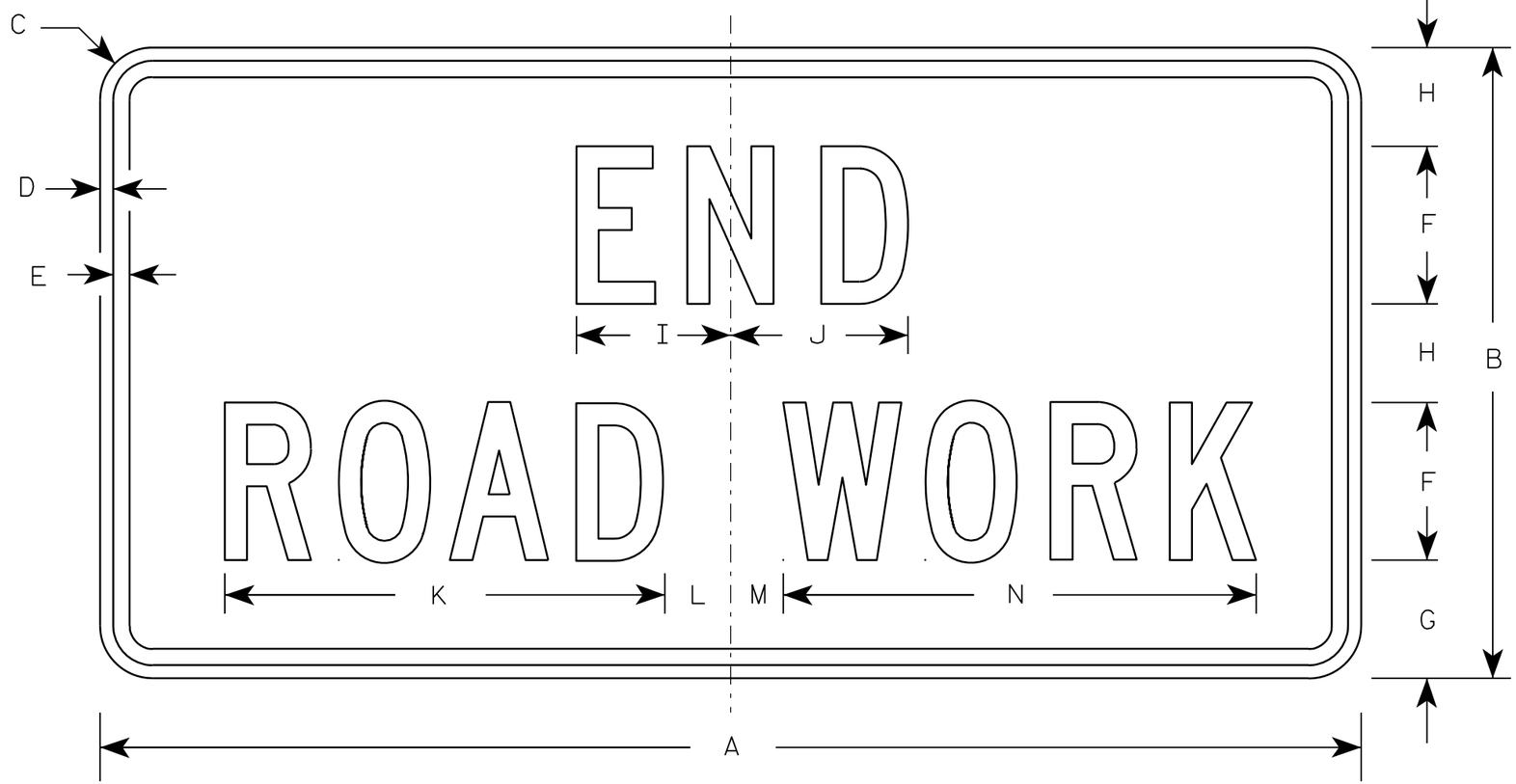
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO:				SHEET NO: 252	E



G20-2A

NOTES

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

Metric equivalent for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

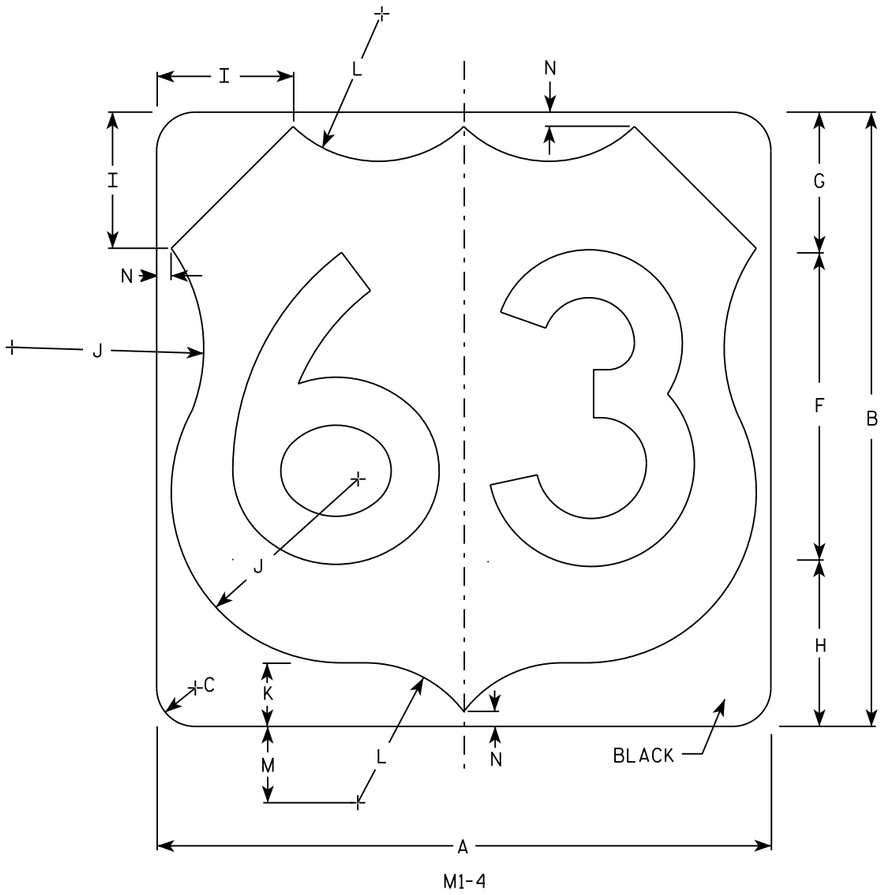
APPROVED Matthew R Rauch
for State Traffic Engineer

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

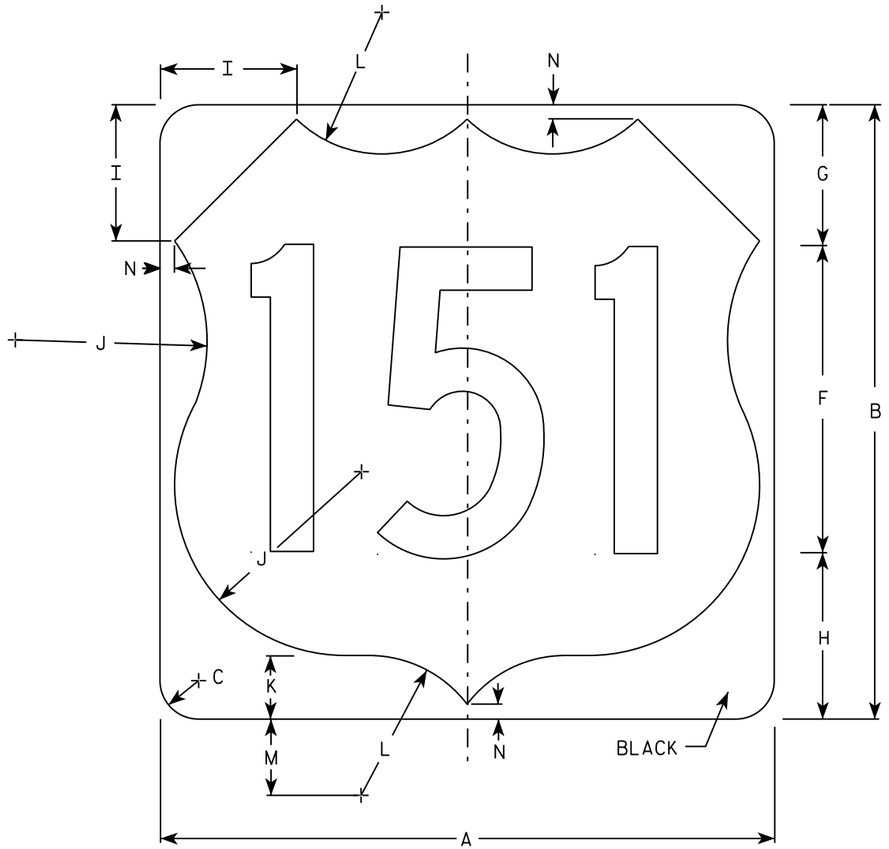
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 253	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



M1-4



M1-4

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	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0

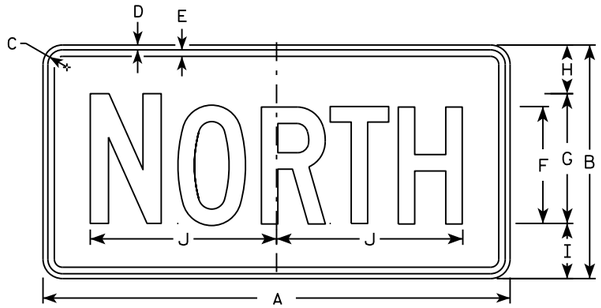
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

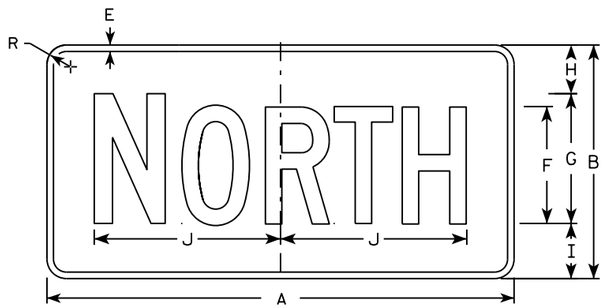
APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 254	E



M3-1
MM3-1
MP3-1



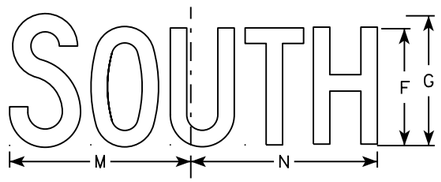
MB3-1
MK3-1
MN3-1



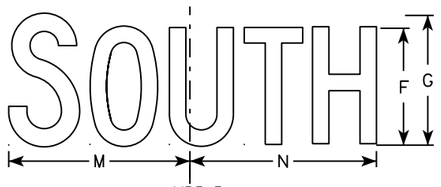
M3-2
MM3-2
MP3-2



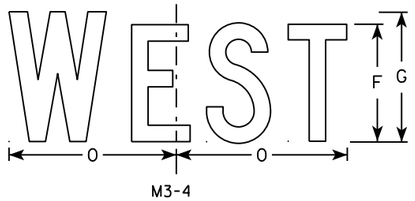
MB3-2
MK3-2
MN3-2



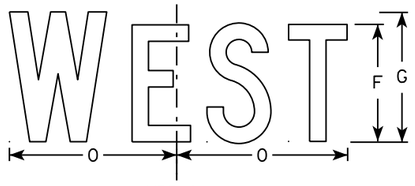
M3-3
MM3-3
MP3-3



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

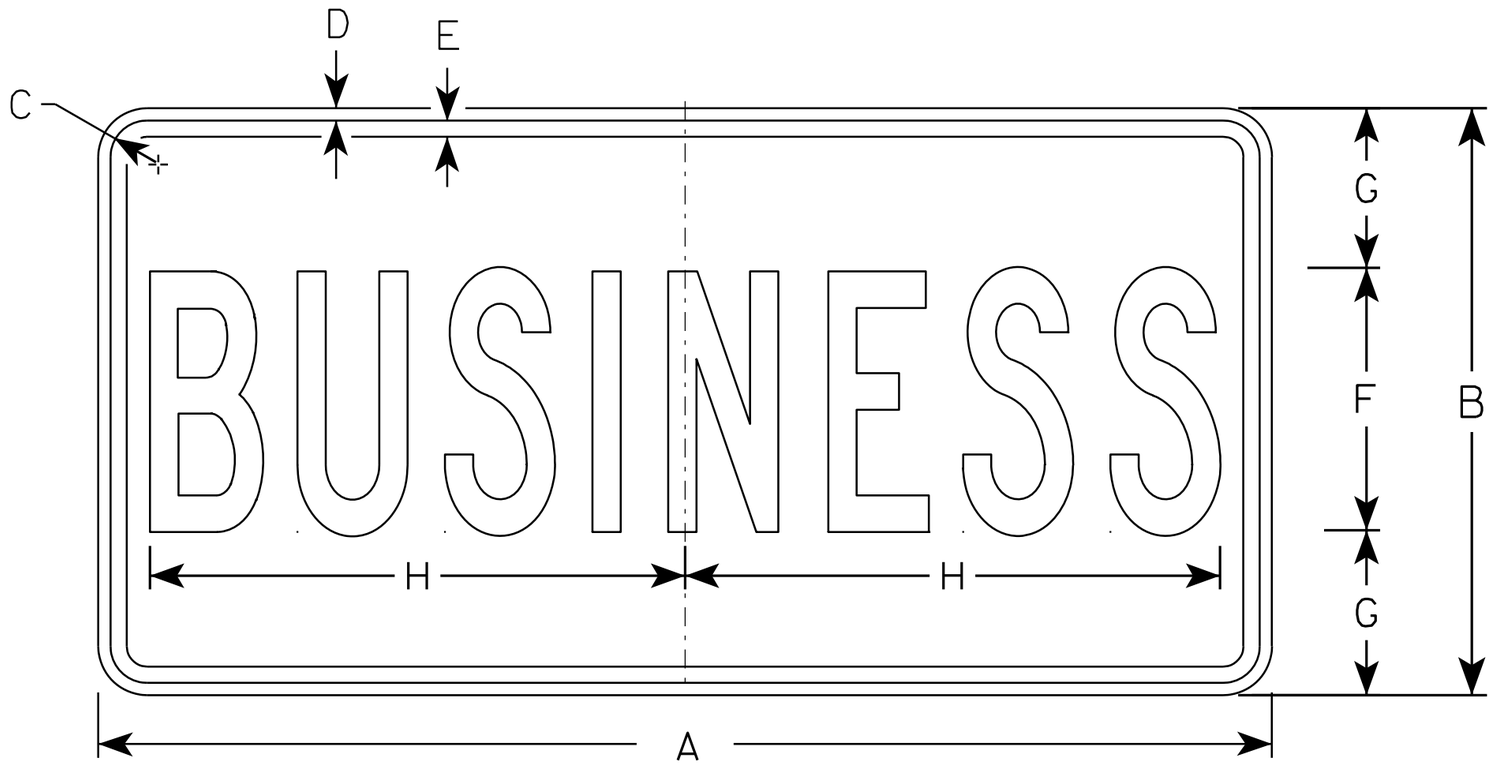
WISCONSIN DEPT OF TRANSPORTATION

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



M4-3

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	5	3 1/2	9 5/8																			2.0
3	36	18	1 1/8	3/8	1/2	8	5	16 3/8																			4.5
4																											
5																											

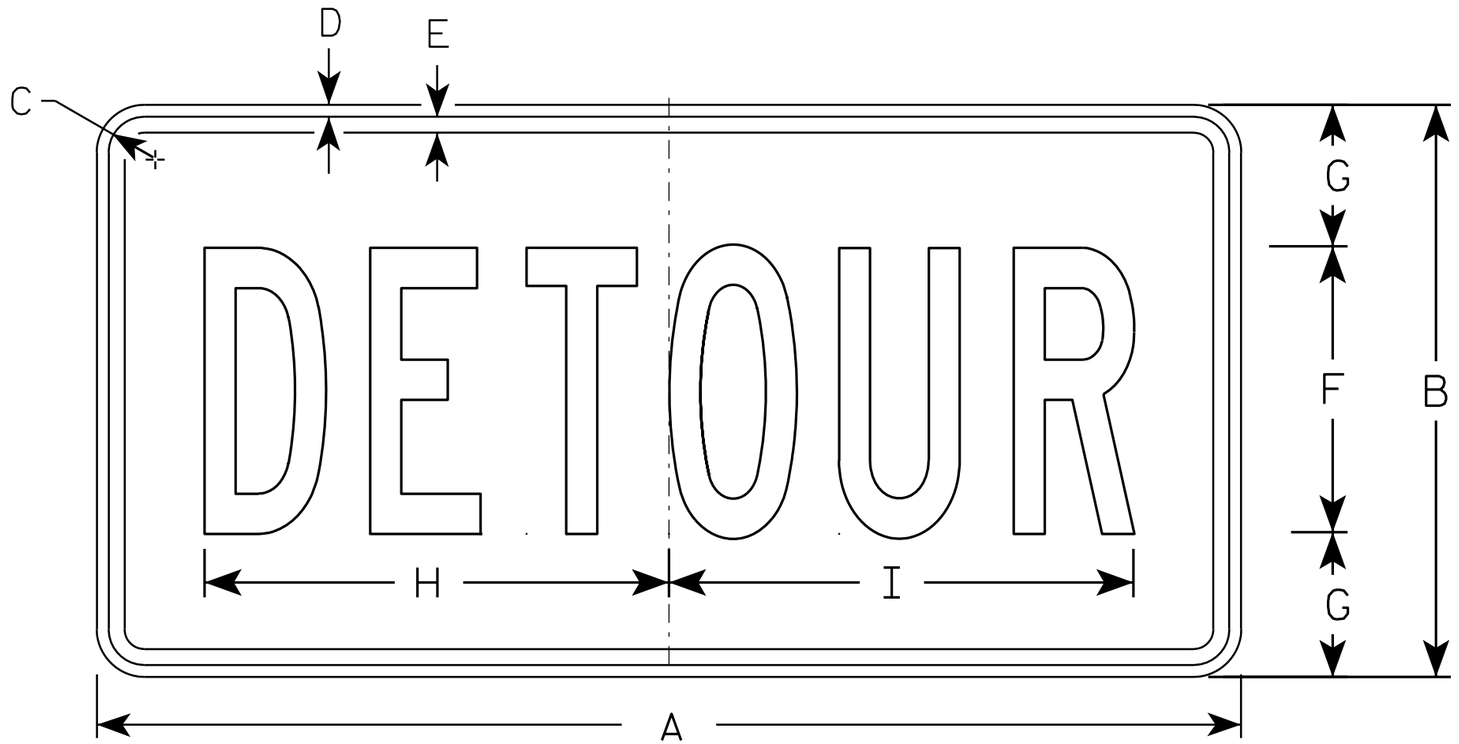
STANDARD SIGN
M4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-3.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 256 | E



M4-8

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

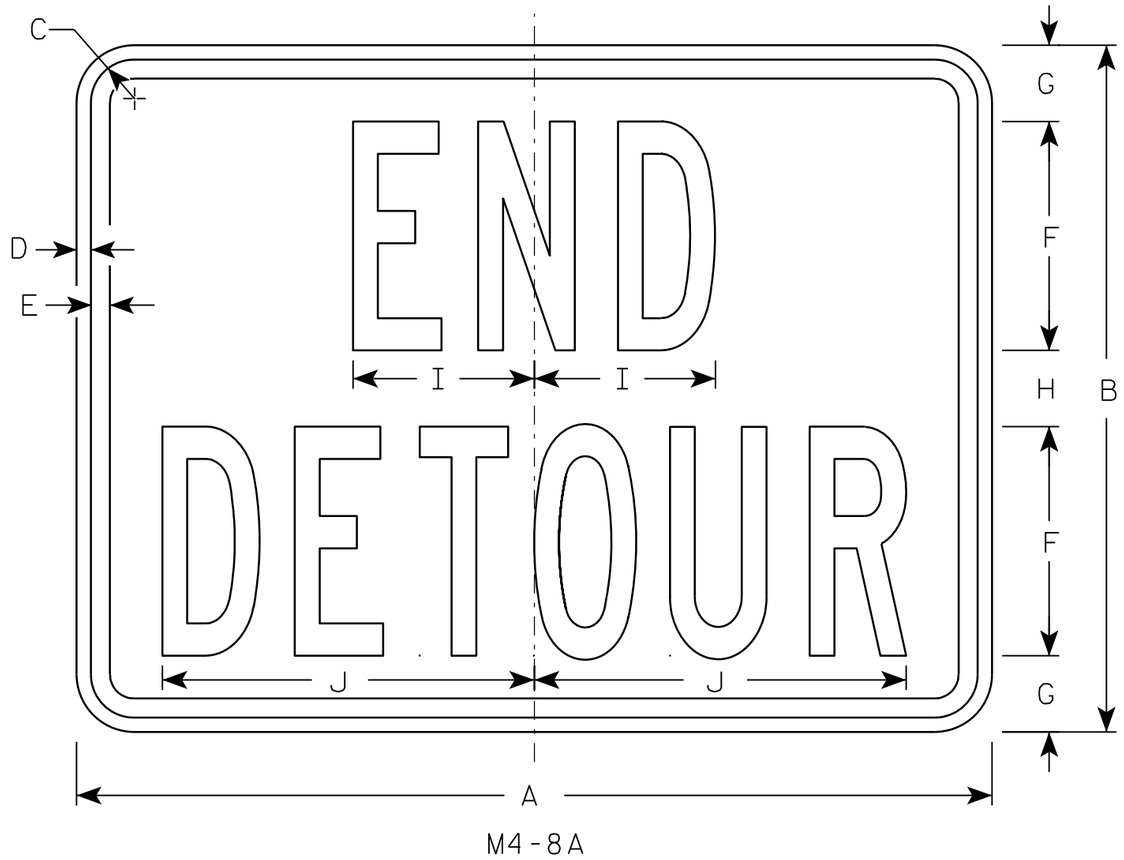
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 257	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																											

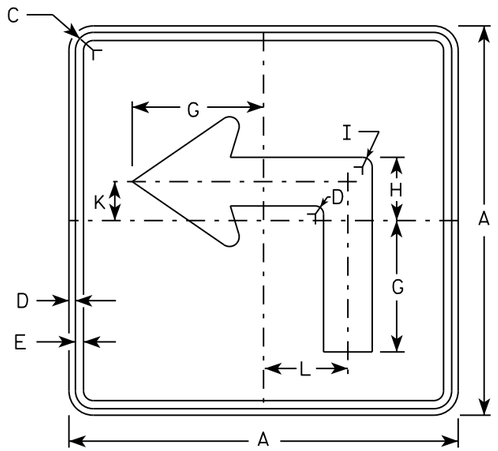
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

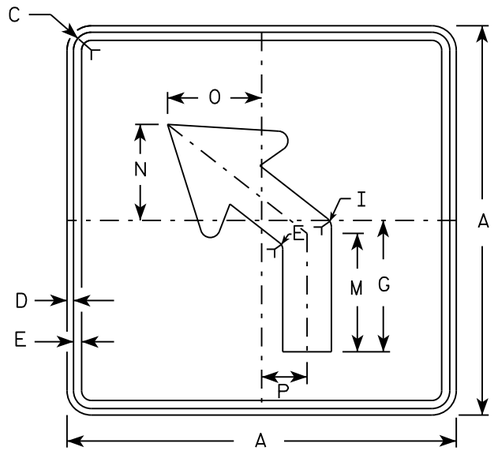
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

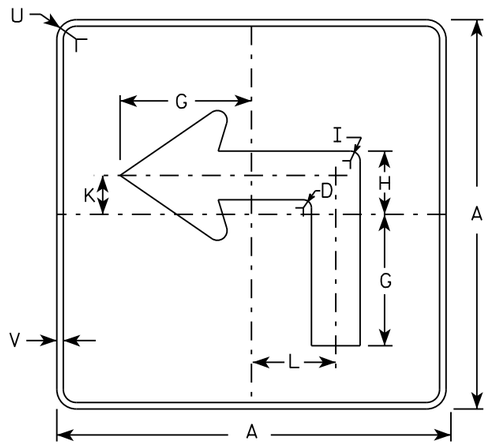
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 258	E



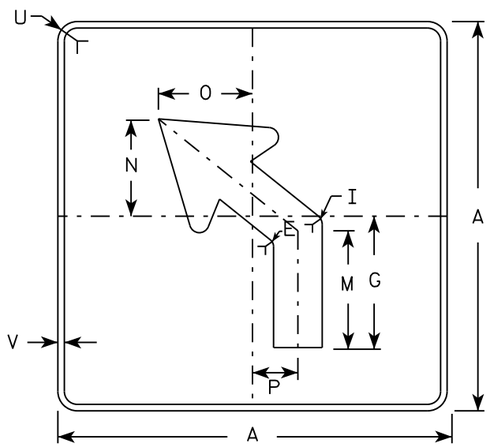
M5-1L
MM5-1L
MO5-1L
MP5-1L



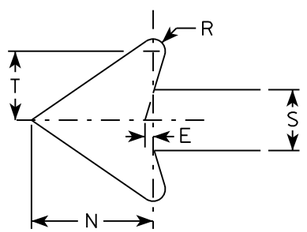
M5-2L
MM5-2L
MO5-2L
MP5-2L



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

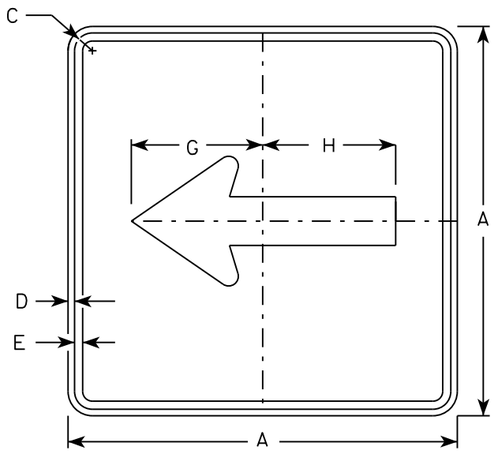
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

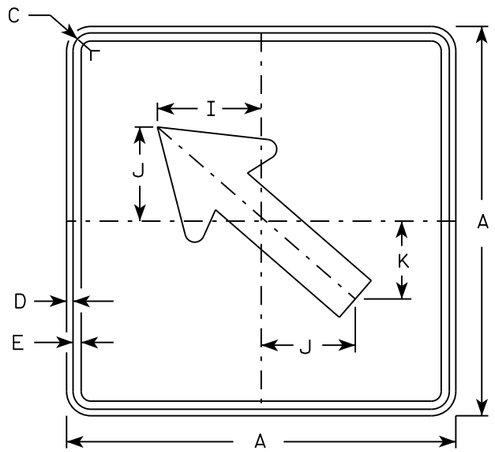
DATE 10/15/15 PLATE NO. M5-1.13

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



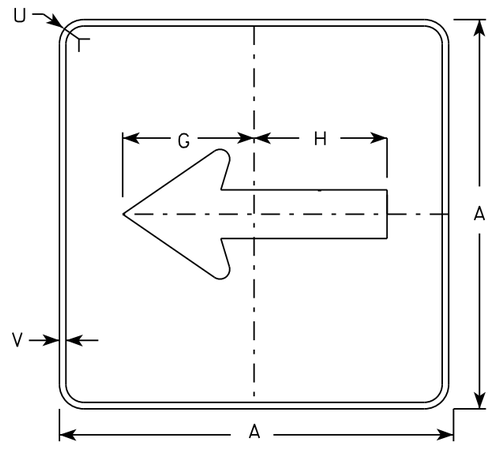
M6-1
MM6-1
MO6-1
MP6-1



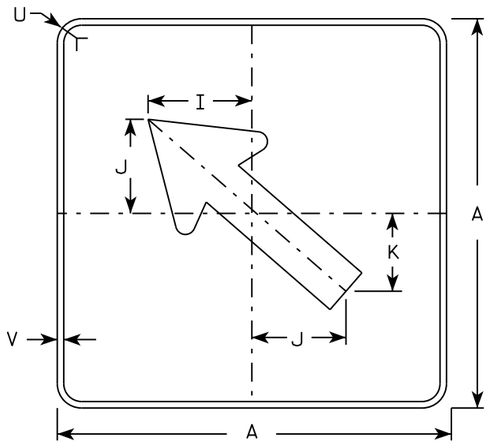
M6-2
MM6-2
MO6-2
MP6-2

NOTES

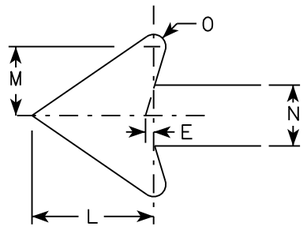
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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

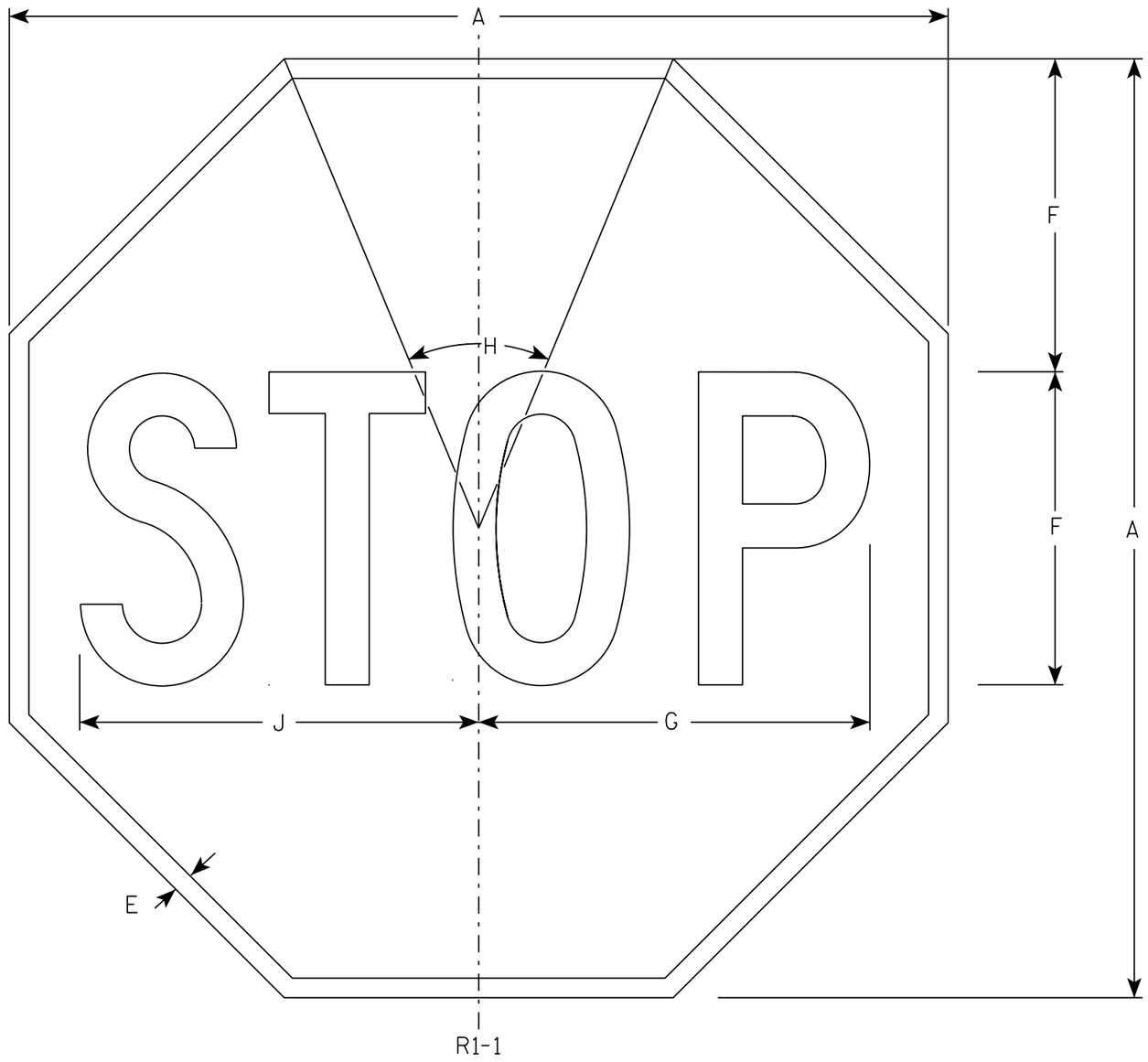
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATI 260 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



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

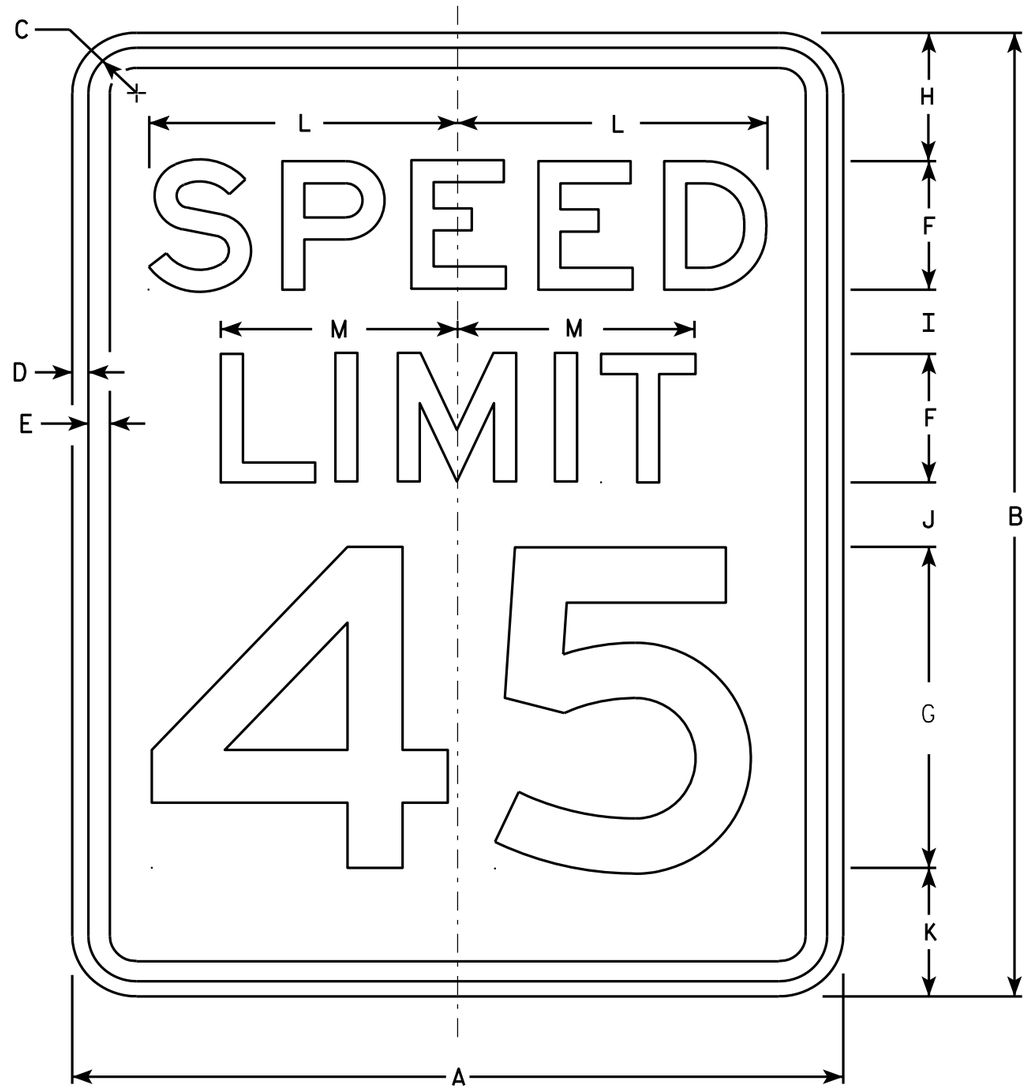
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 261	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

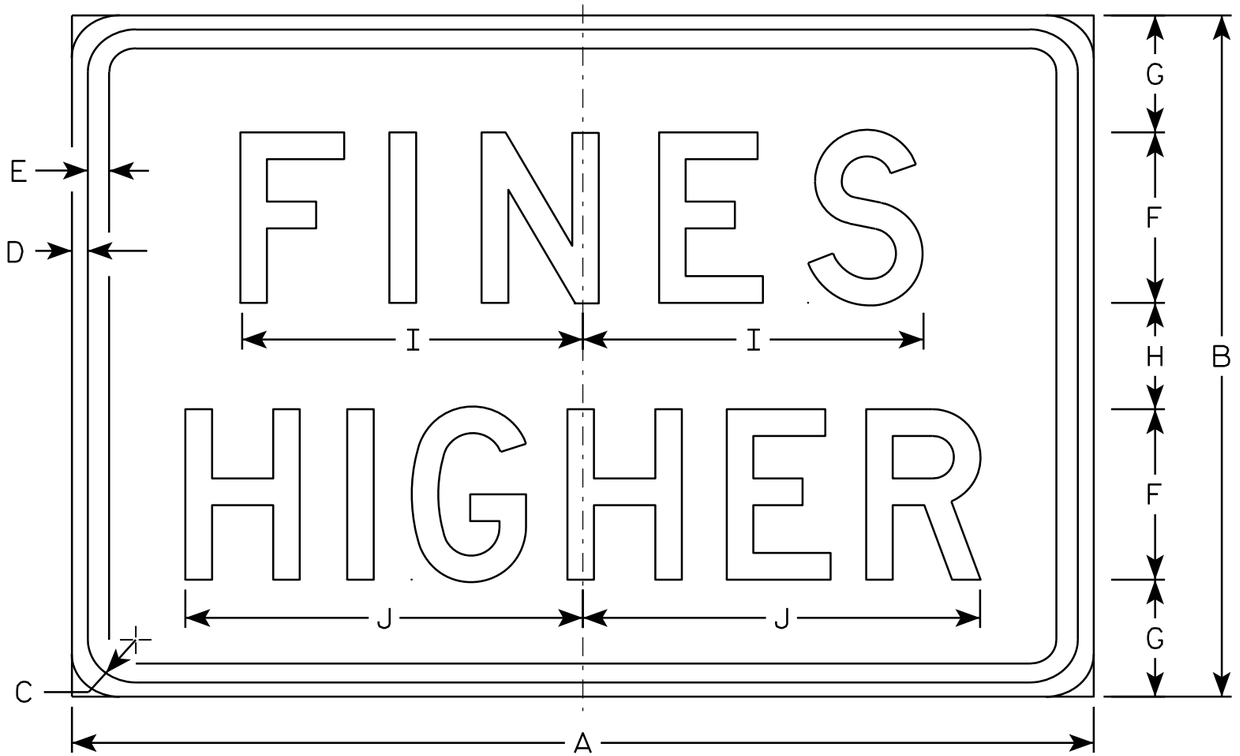
STANDARD SIGN
R2-1

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: 262 | 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

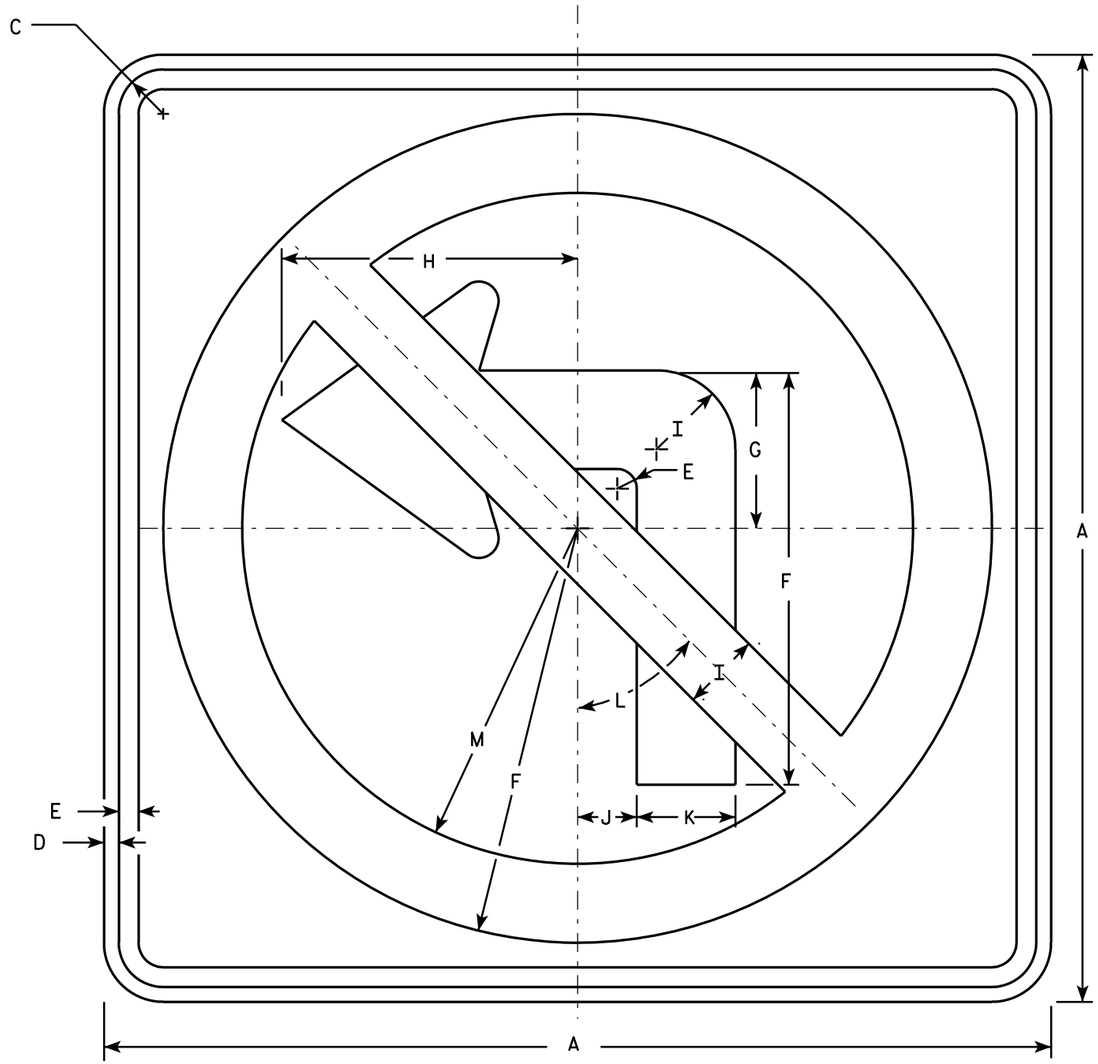
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. R2-6P.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 263 | E

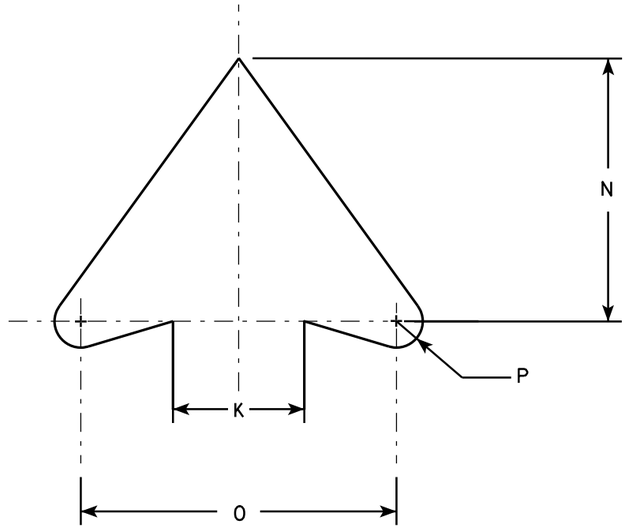
7



R3-2

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 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	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

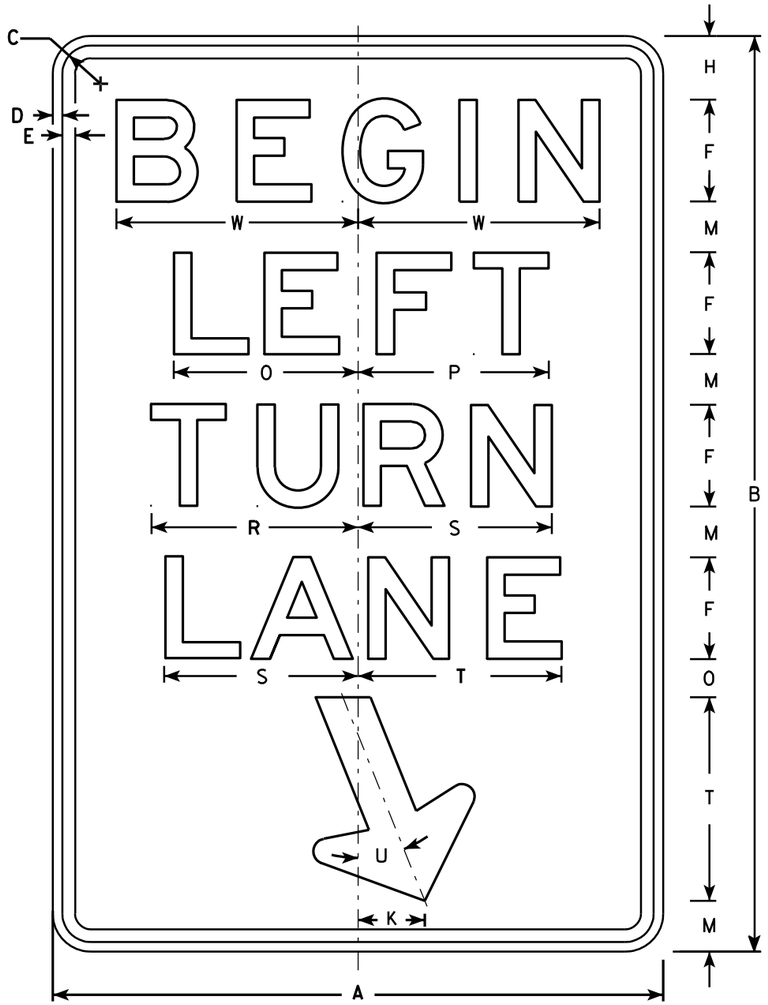
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

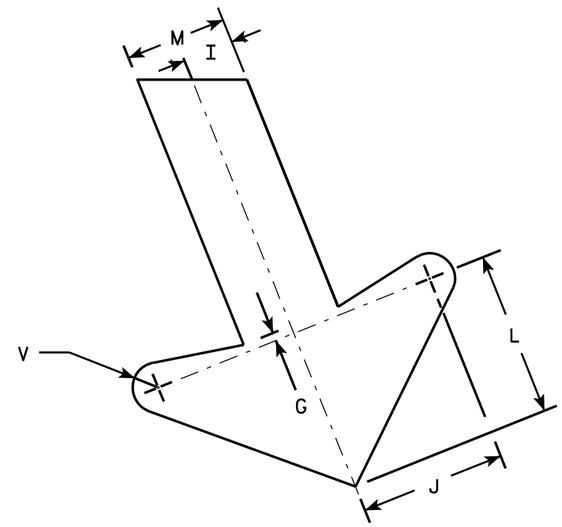
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 264	E



R3-20L

NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

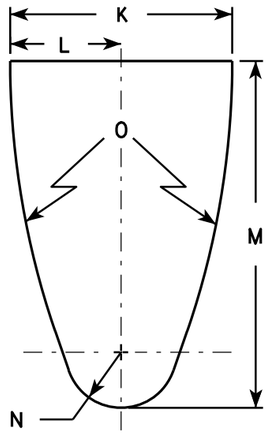
STANDARD SIGN
R3-20L

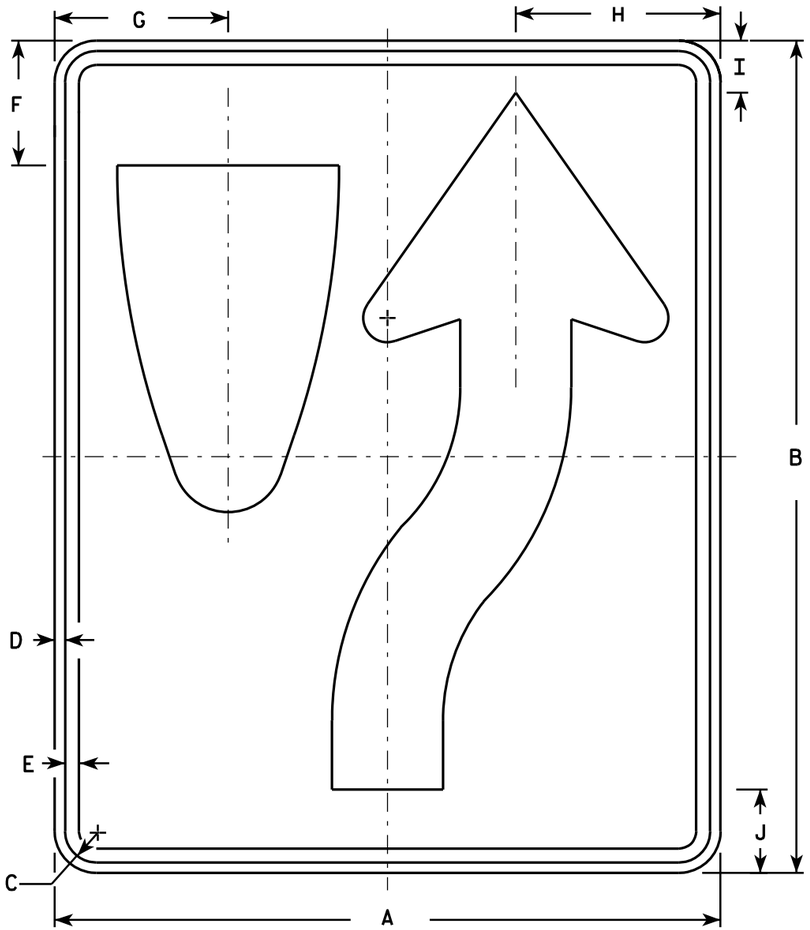
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 265 | E

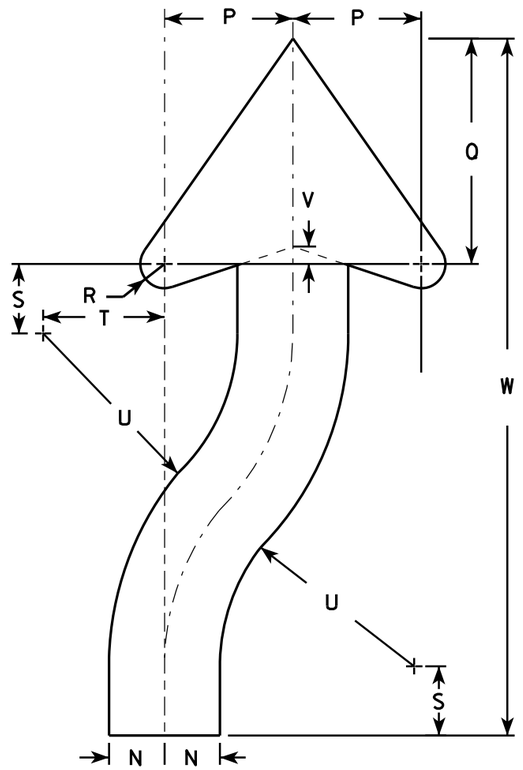




R4-7

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

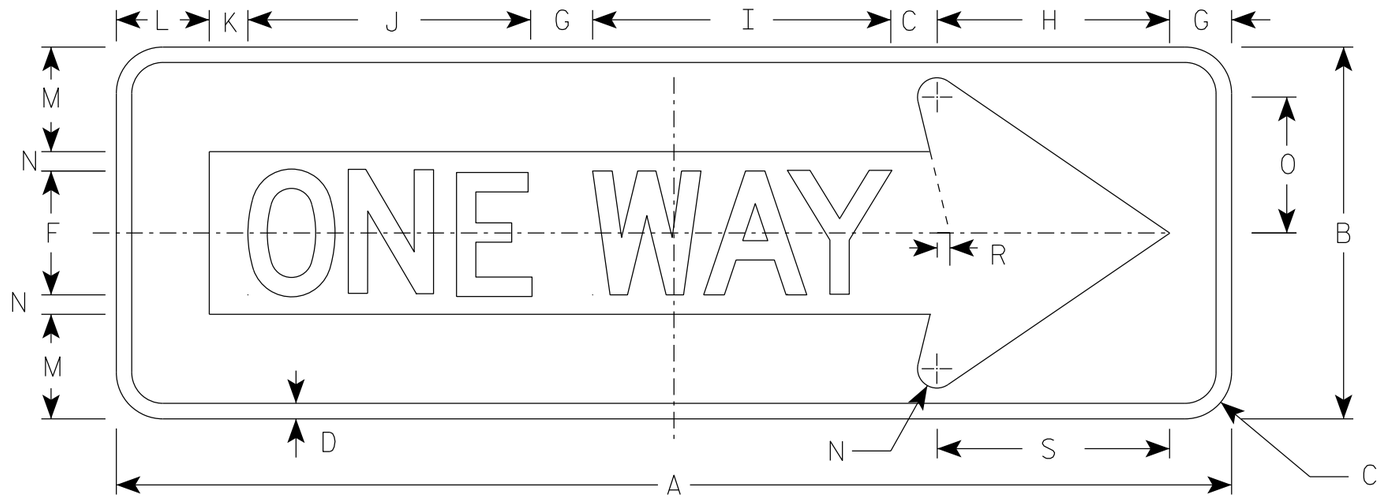
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

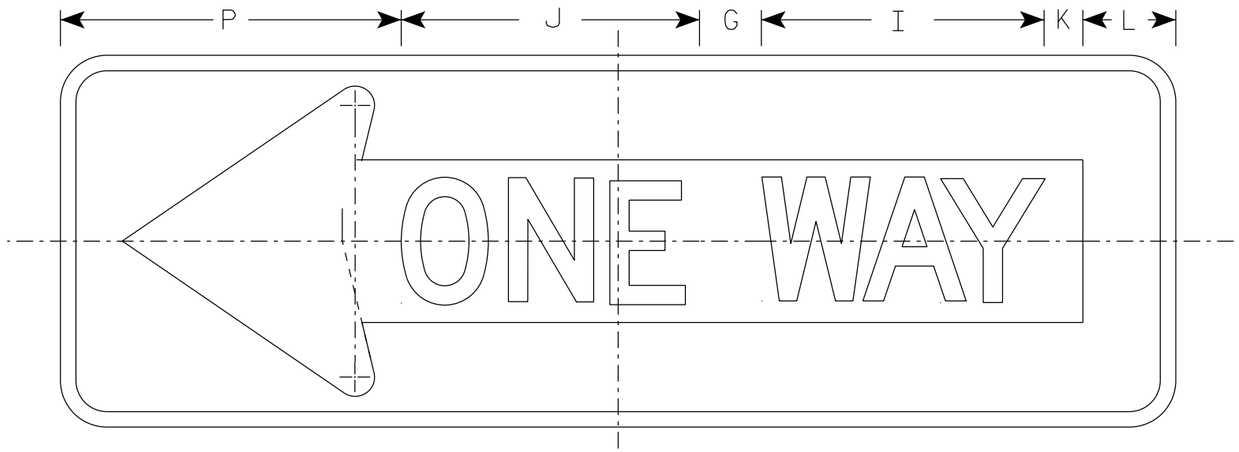
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 266	E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D



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 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

STANDARD SIGN
R6-1 L & R

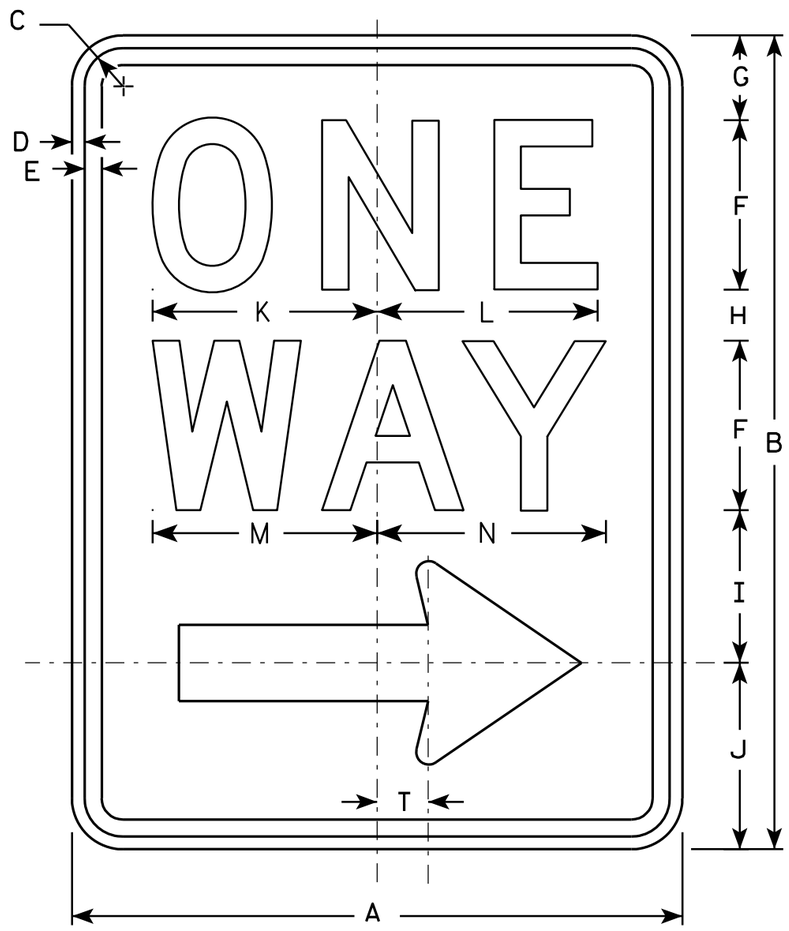
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 07/11/18 PLATE NO. R6-1.3

PROJECT NO:

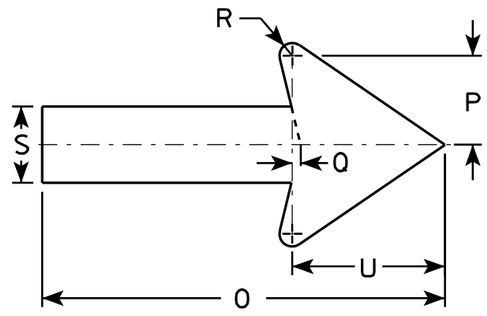
SHEET NO: 267 E



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	O	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																										

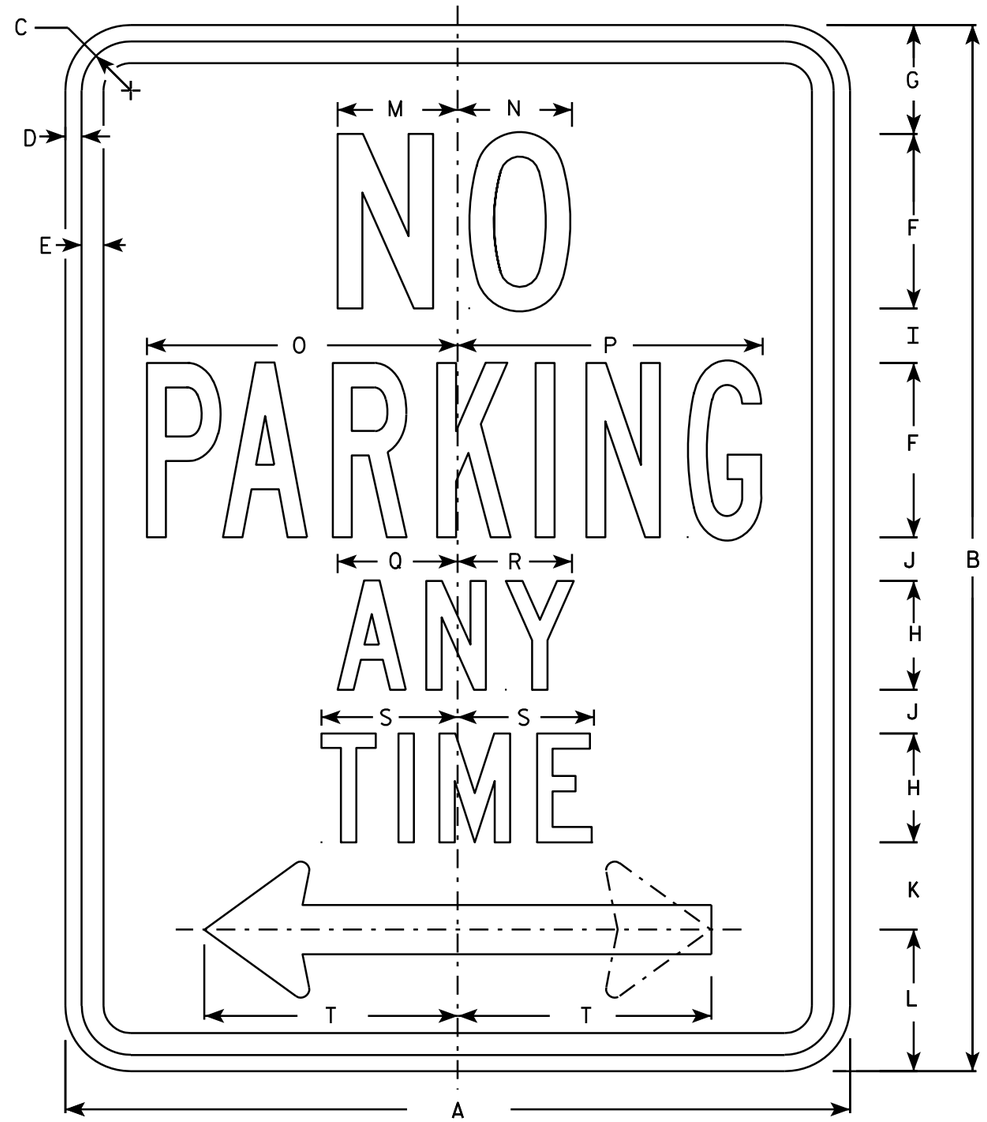
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

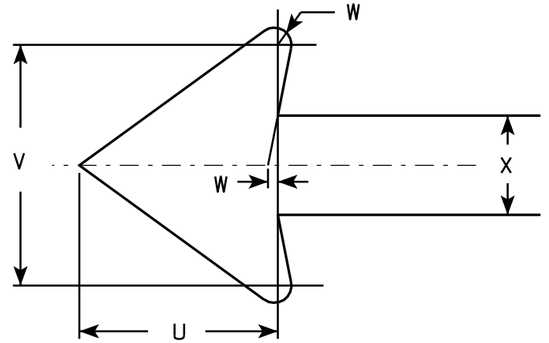
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 268	E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

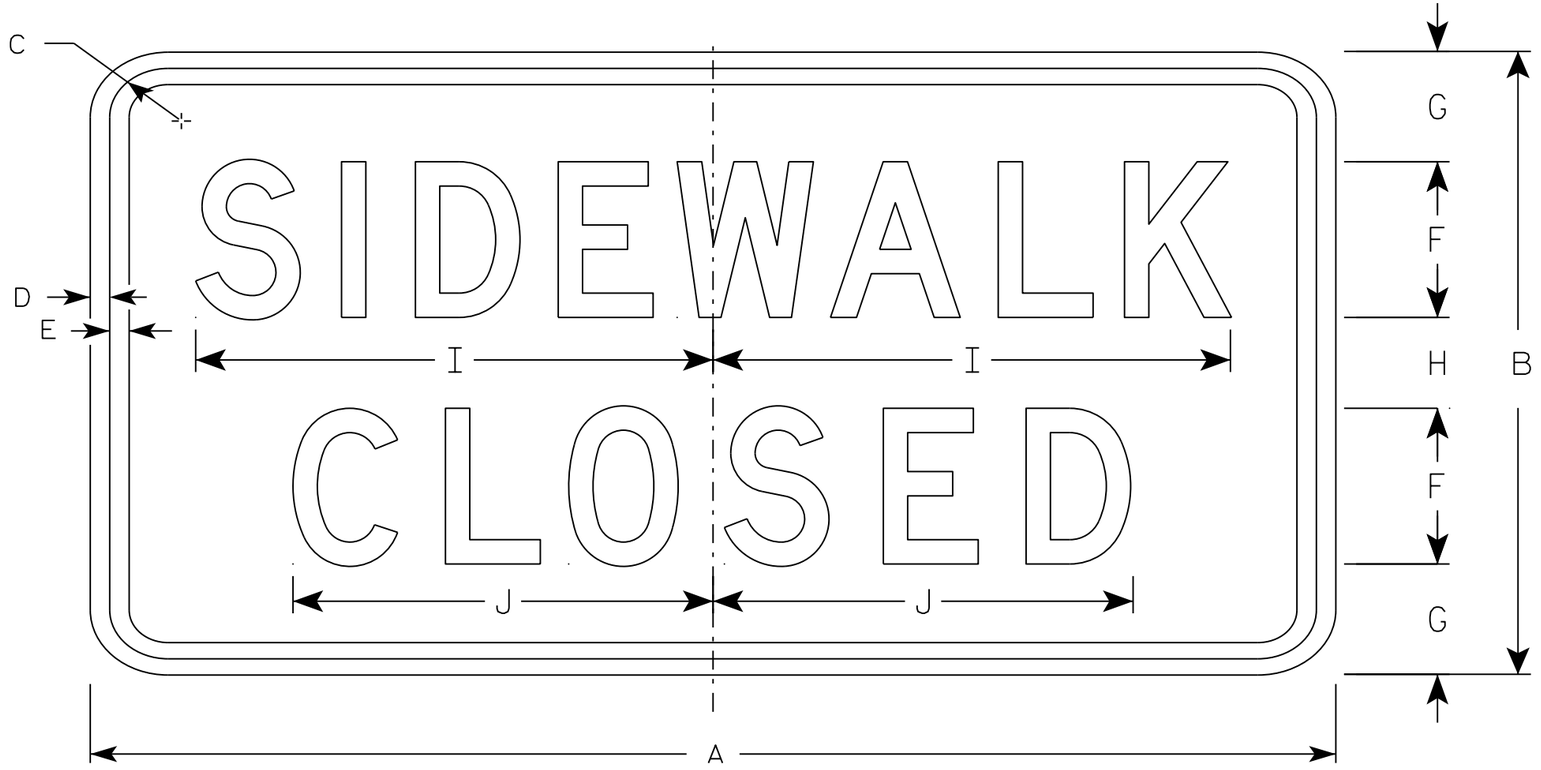
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 269	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



R9-9

NOTES

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

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 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

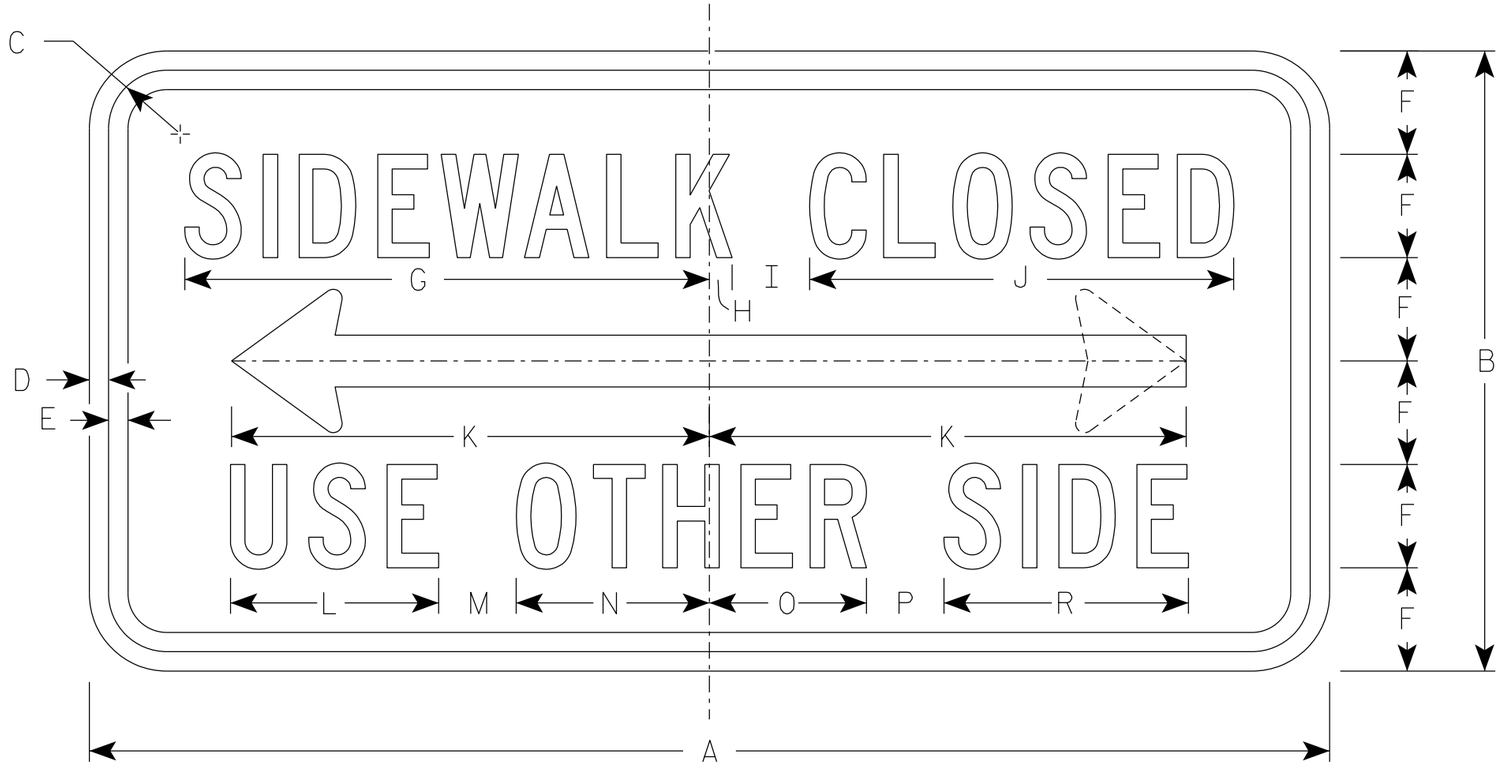
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/11/16 PLATE 270 R9-9.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

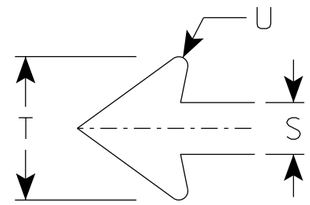
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000



R9-10

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. Use Size 2 for sidewalks. Use Size 3 for paths and trails.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	2	10 1/8	1/2	1 1/2	8 1/4	9 1/4	4	1 1/2	3 3/4	3	1 1/2		4 3/4	1	2 3/4	1/8						2.0
2M	24	12	1 1/8	3/8	3/8	2	10 1/8	1/2	1 1/2	8 1/4	9 1/4	4	1 1/2	3 3/4	3	1 1/2		4 3/4	1	2 3/4	1/8						2.0
3	30	15	1 1/8	3/8	1/2	2 1/2	12 3/4	1/2	2	10 1/4	12 3/8	5	2	4 5/8	3 3/4	2		5 7/8	1 1/4	3 5/8	1/4						3.125
4																											
5																											

STANDARD SIGN
R9-10

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/7/2020 PLATE NO. R9-10.7

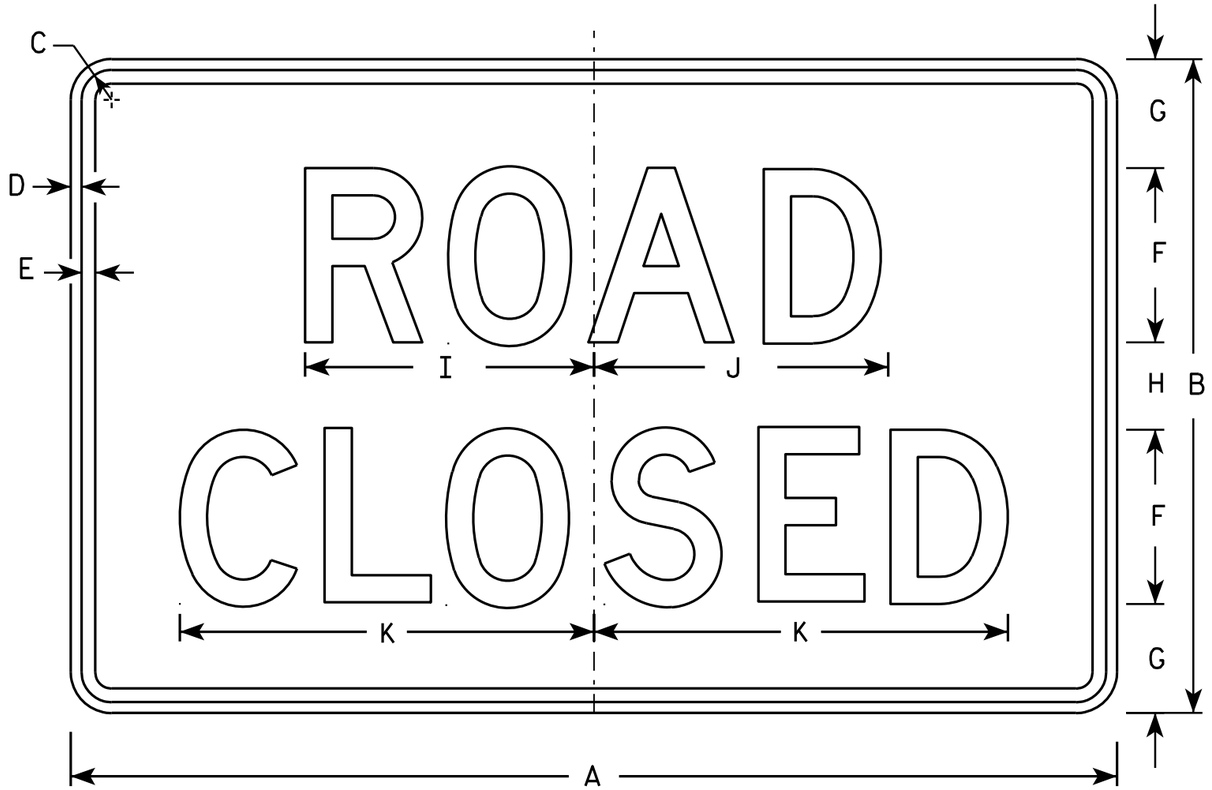
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 271	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R910.dgn PLOT DATE : 07-APRIL-2020 PLOT BY : dotc4c PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

7

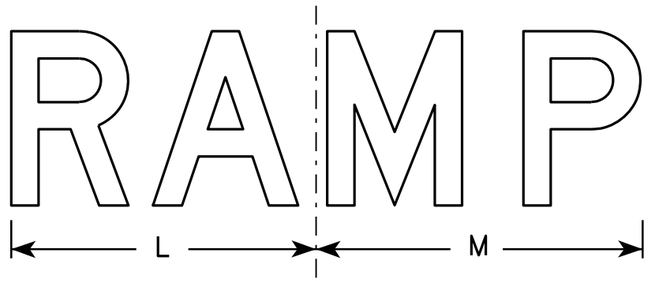
7



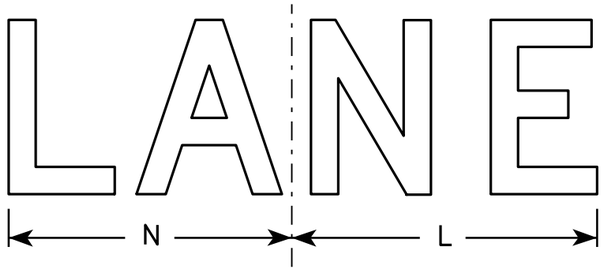
R11-2

NOTES

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



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

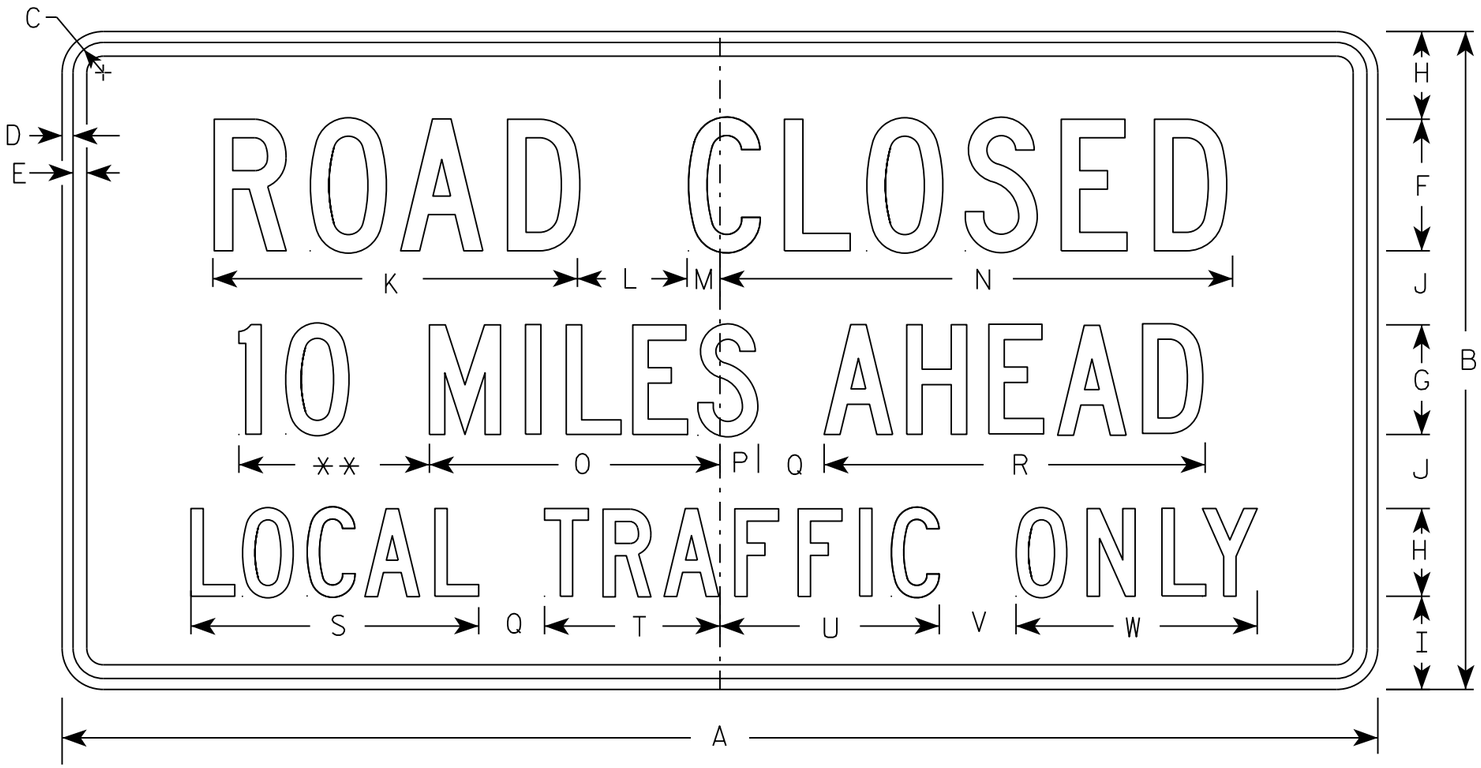
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 272 | E

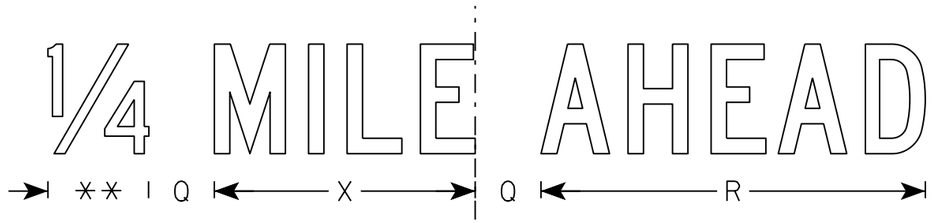
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



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

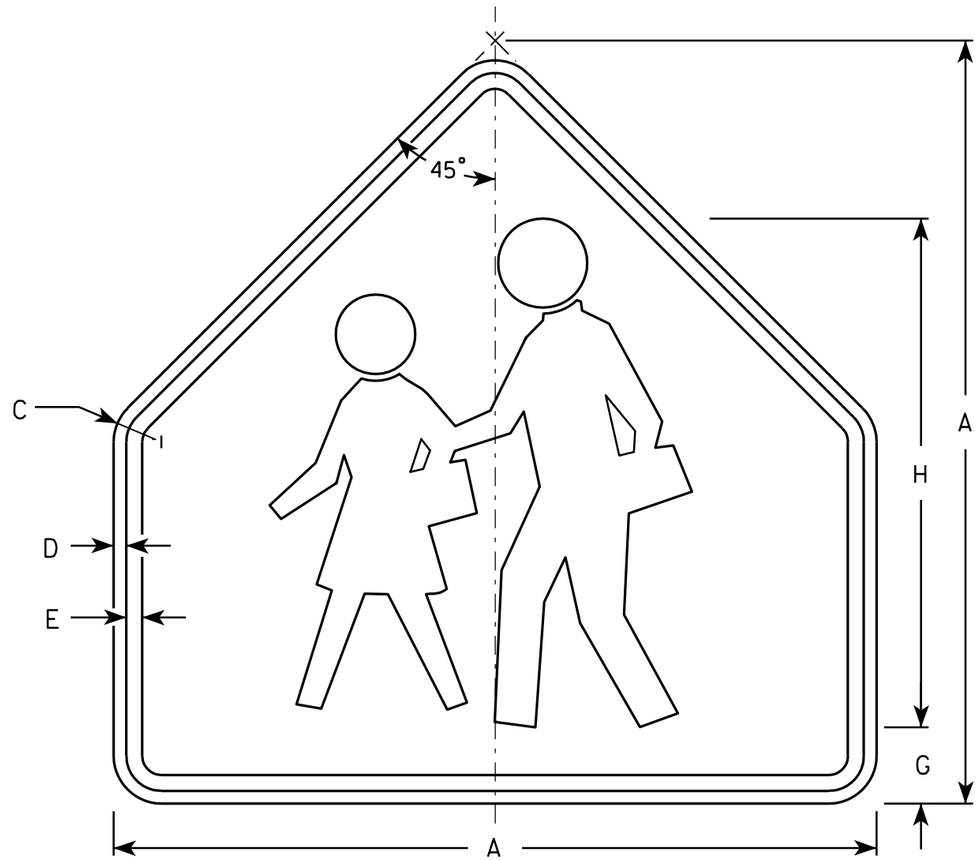
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/17 PLATE NO. R11-3.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 273	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																											

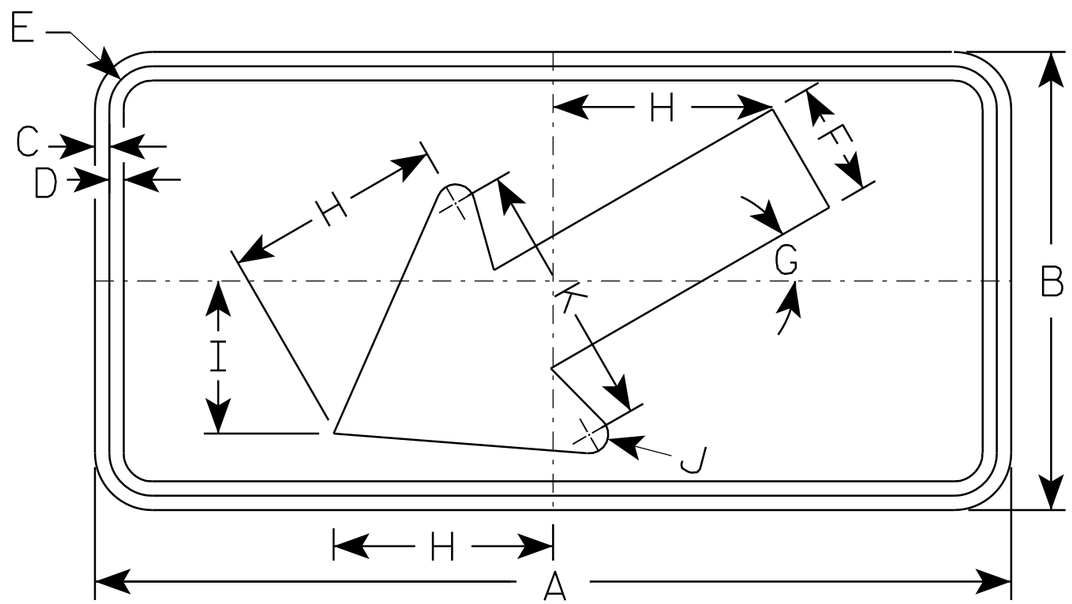
STANDARD SIGN
S1-1

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: 274	E



S16-7L

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. S16-7R are the same as S16-7L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2S	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8.0
5																											

STANDARD SIGN
S16-7

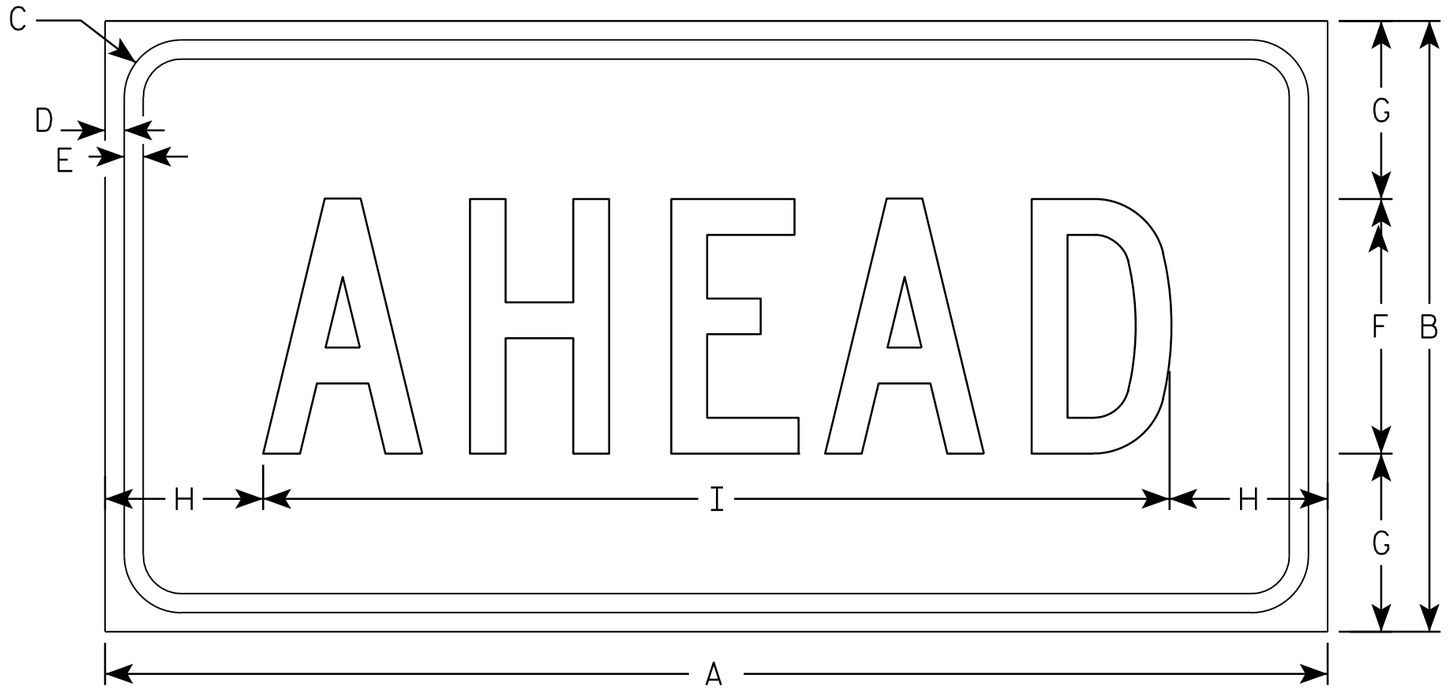
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-7.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 275 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\S167.dgn PLOT DATE : 19-AUG-2013 14:55 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 3.969517:1.000000
WISDOT/CADDS SHEET 42



S16-9P

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

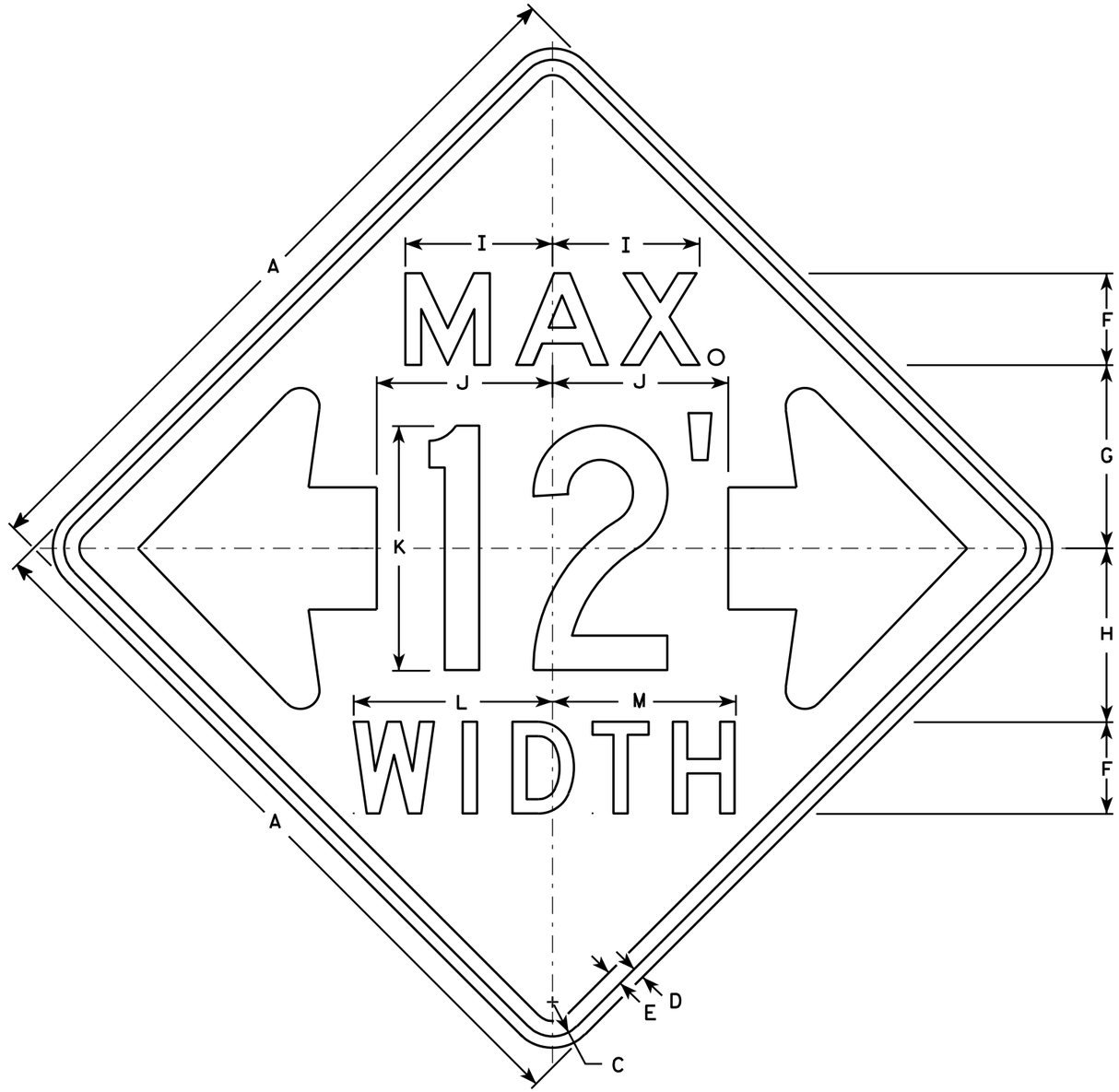
STANDARD SIGN
S16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-9P.1

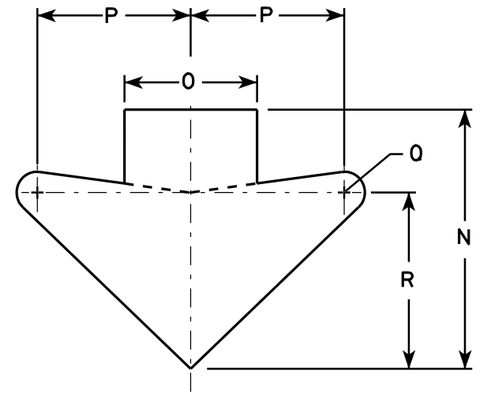
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 276 | E



W12-52

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. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



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	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

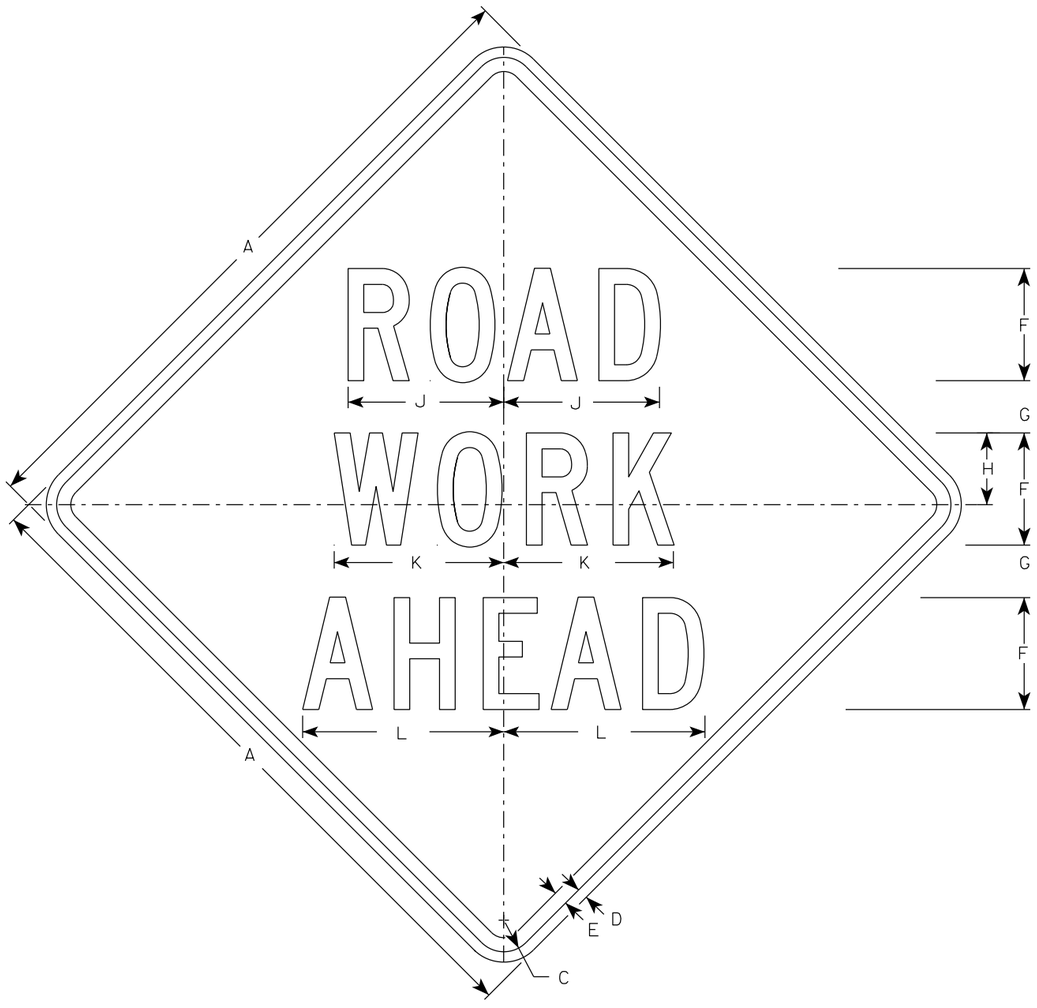
DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 277 | E

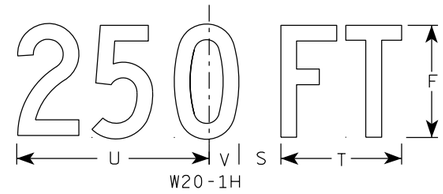
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42

NOTES

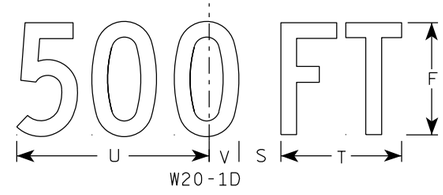
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1A



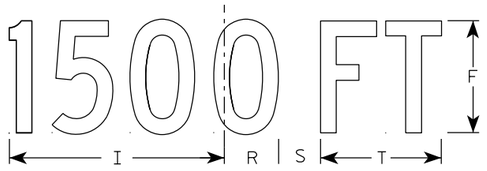
W20-1H



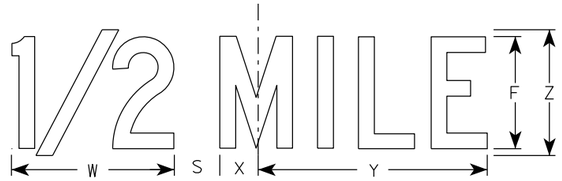
W20-1D



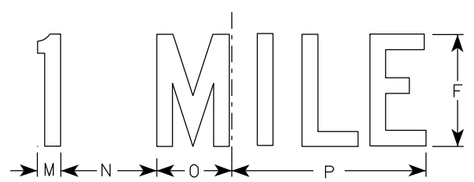
W20-1C



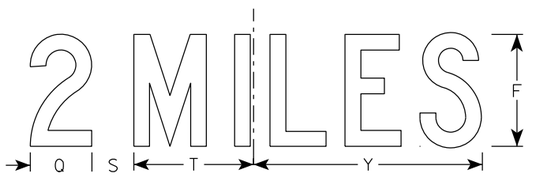
W20-1B



W20-1G



W20-1F



W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

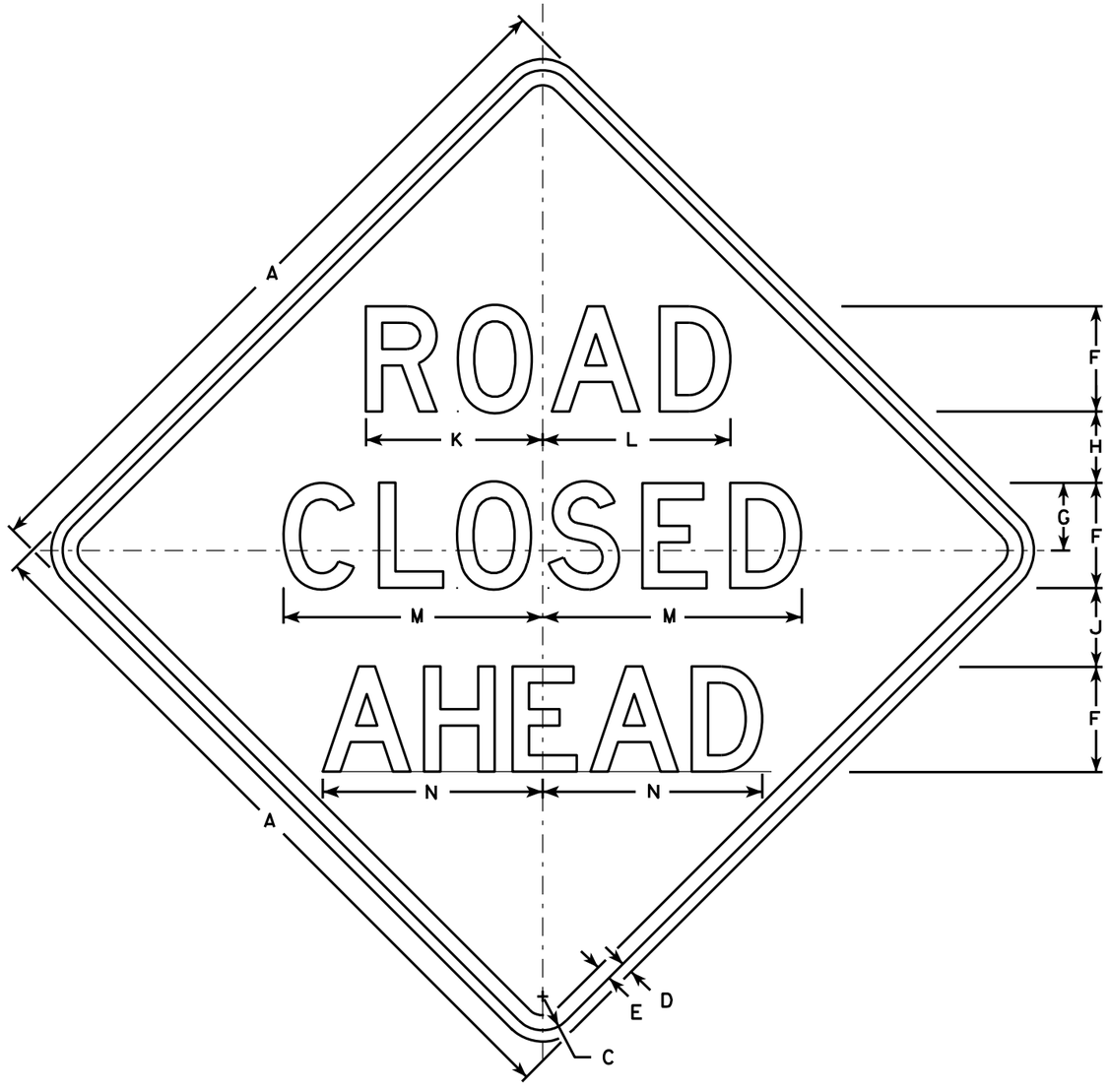
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

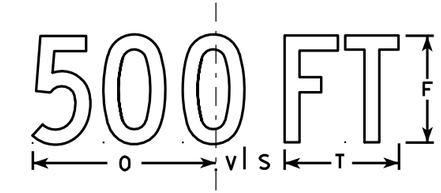
WISDOT/CADDS SHEET 42

7

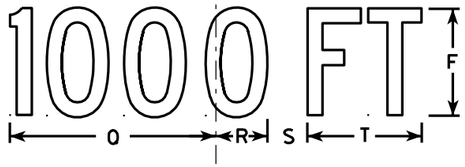
7



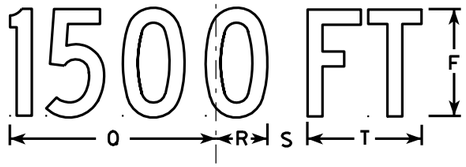
W20-3A



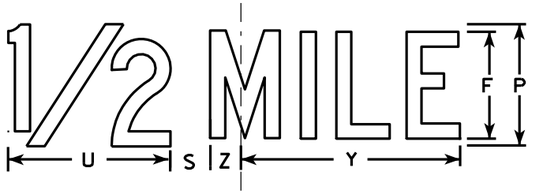
W20-3D



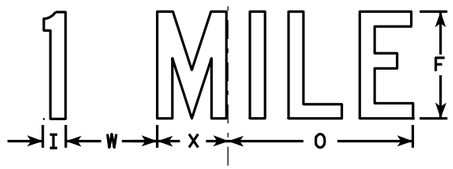
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

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

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

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

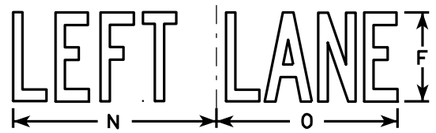
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

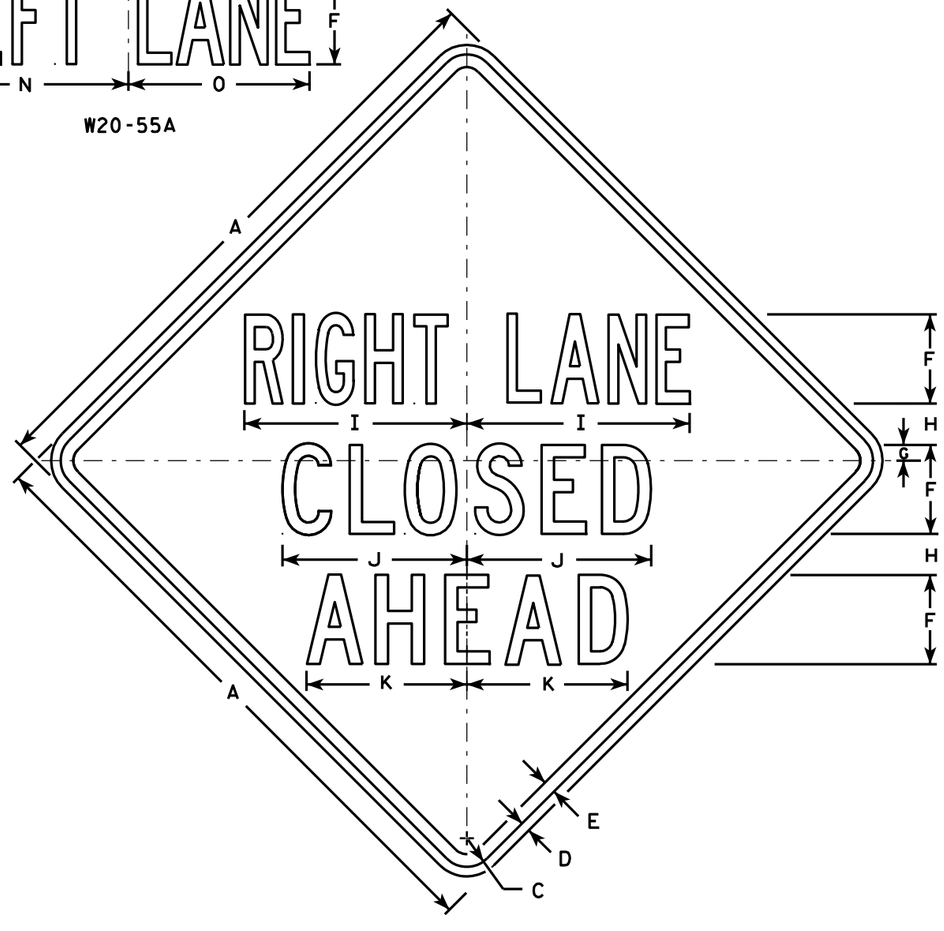
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 279 | E



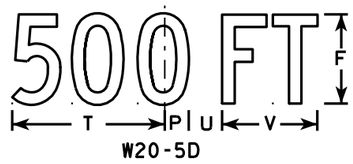
W20-56A



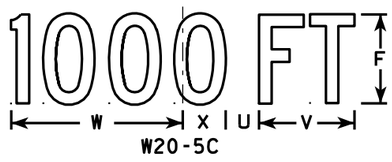
W20-55A



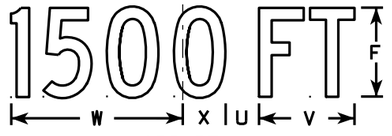
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

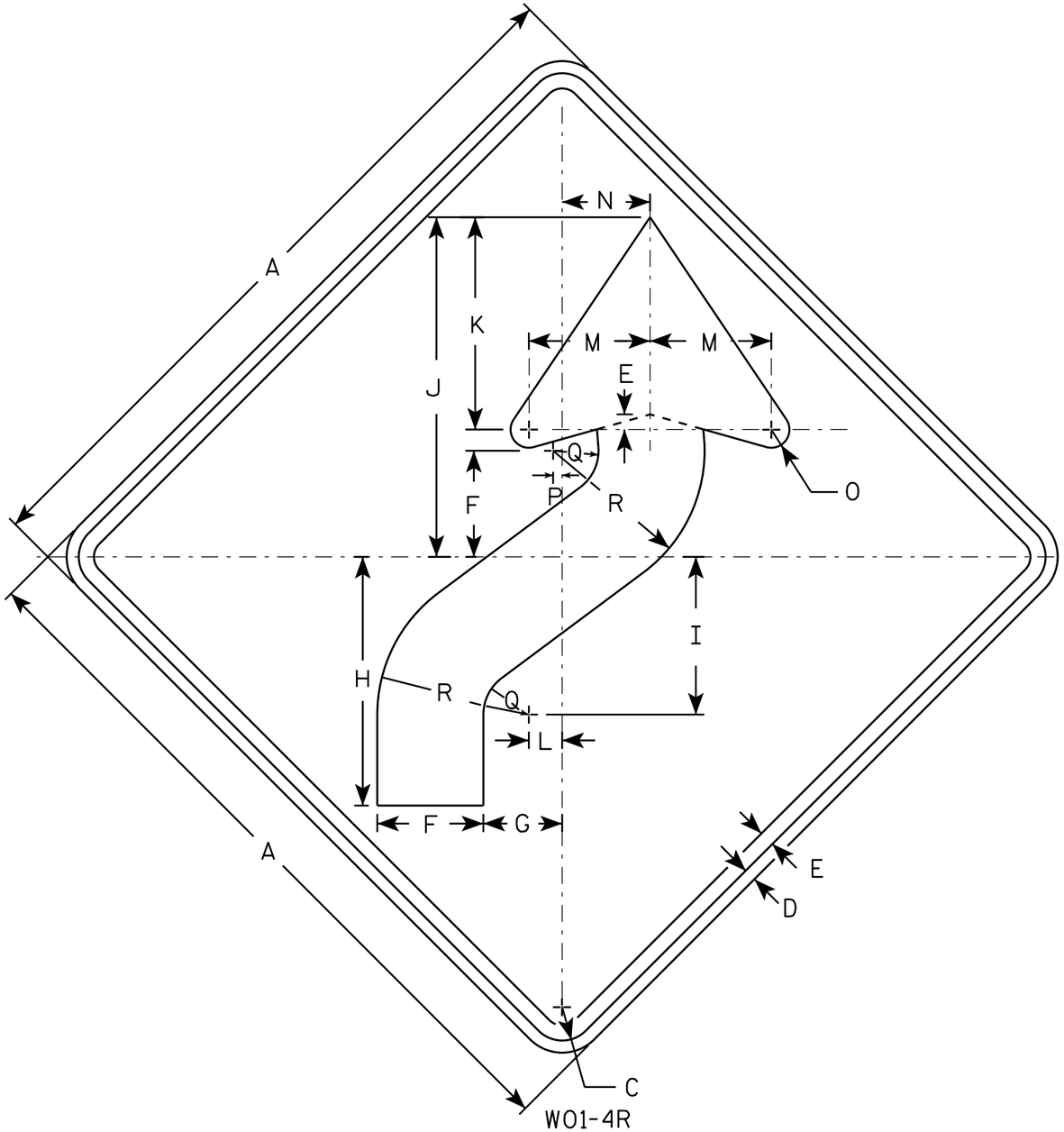
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 280	E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



W01-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
W01-4

WISCONSIN DEPT OF TRANSPORTATION

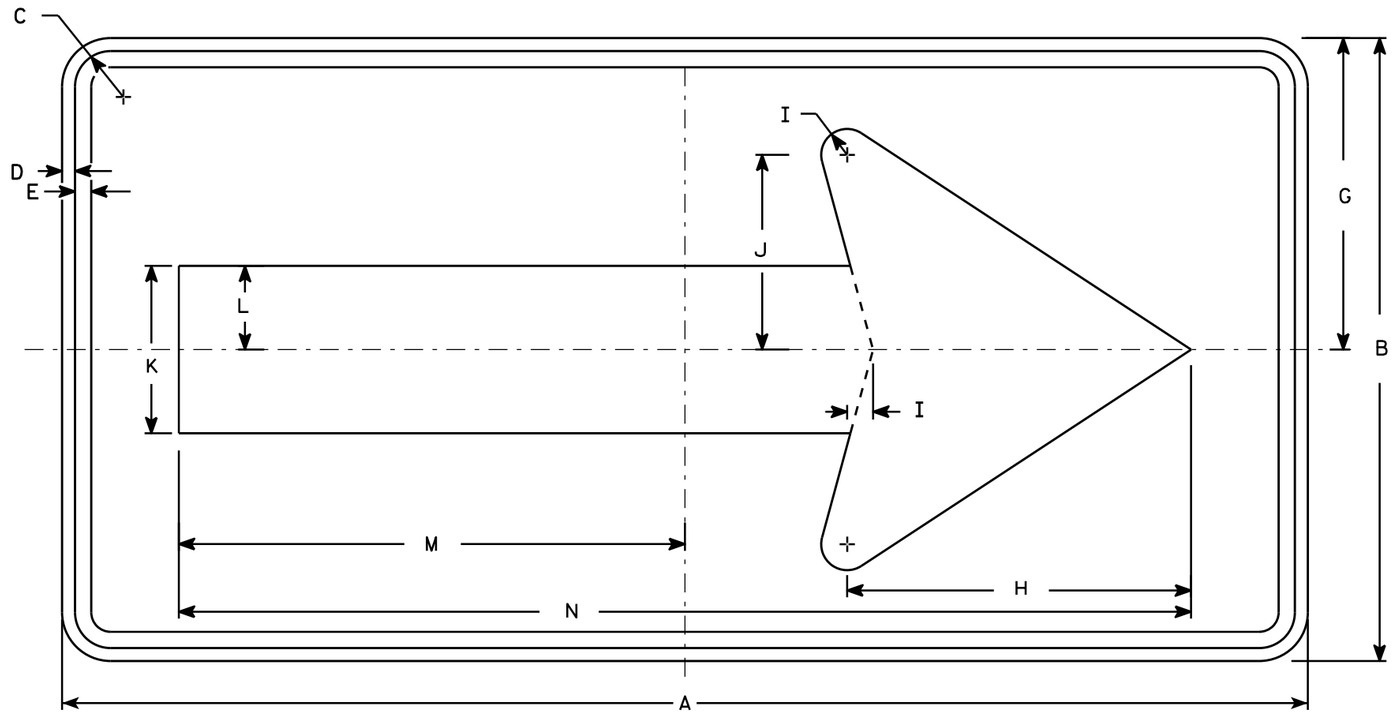
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000
WISDOT/CADDS SHEET 42

7



W01-6

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

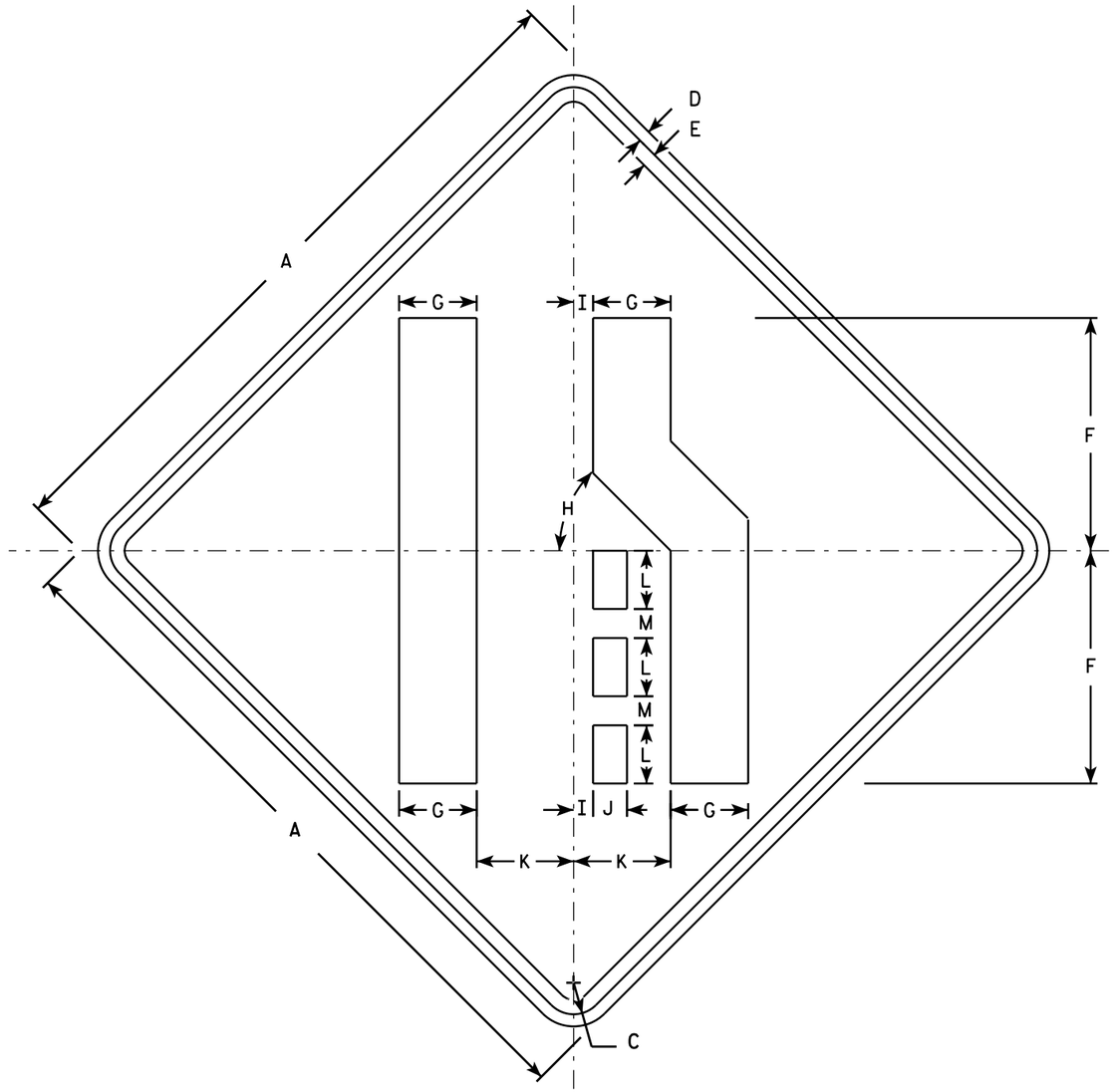
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

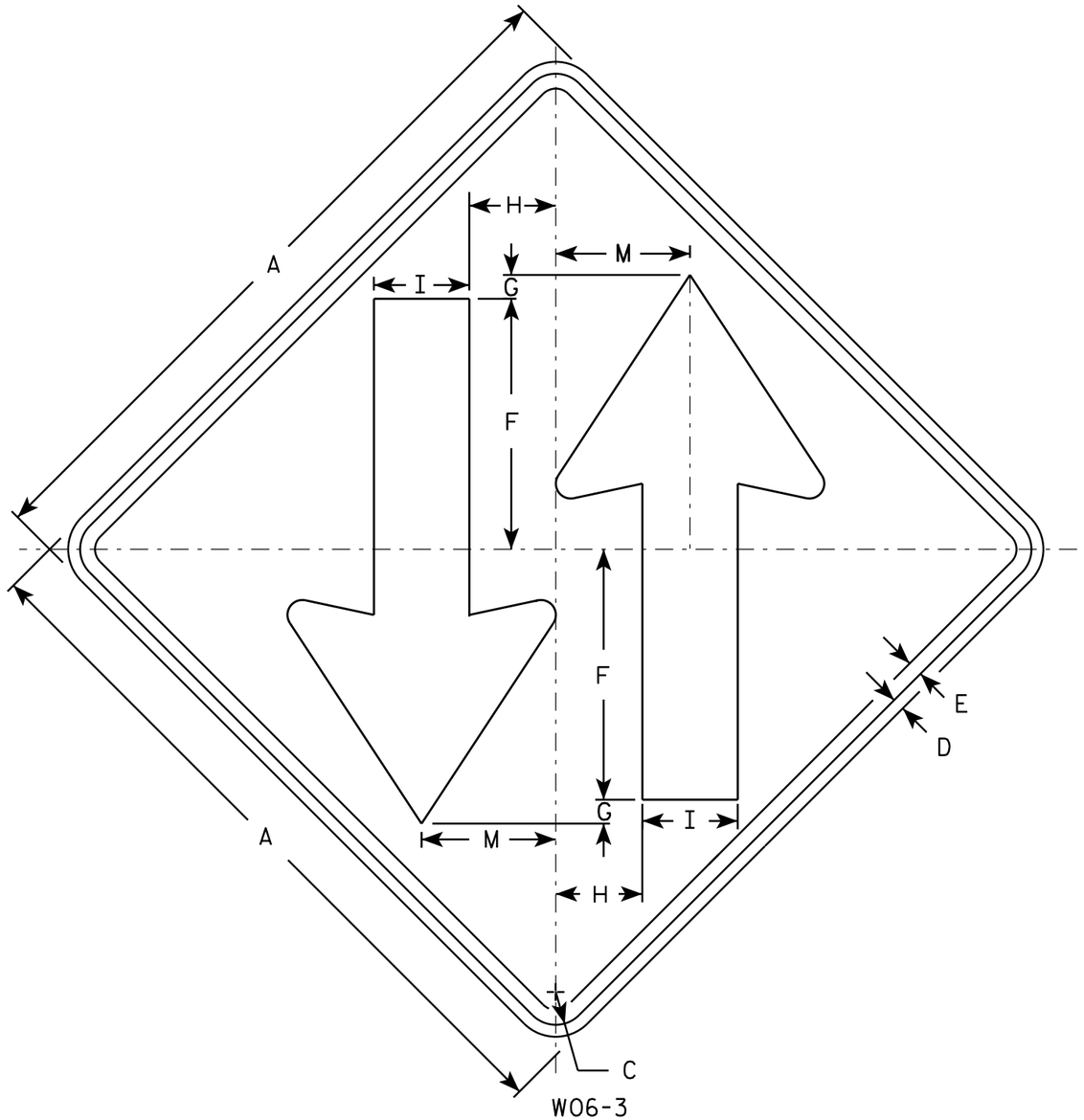
STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 283 W04-2.1

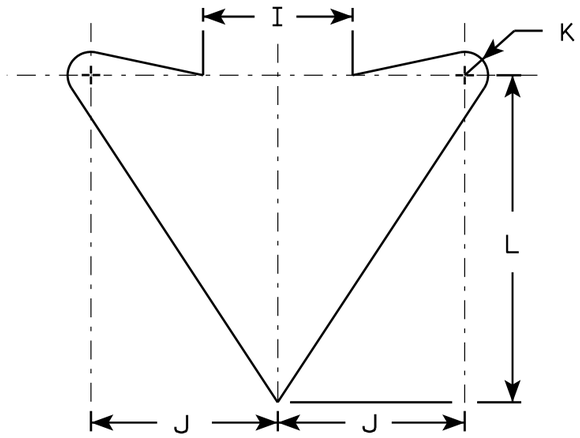
PROJECT NO: | SHEET NO: E



W06-3

NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2S	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
2M	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
3	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

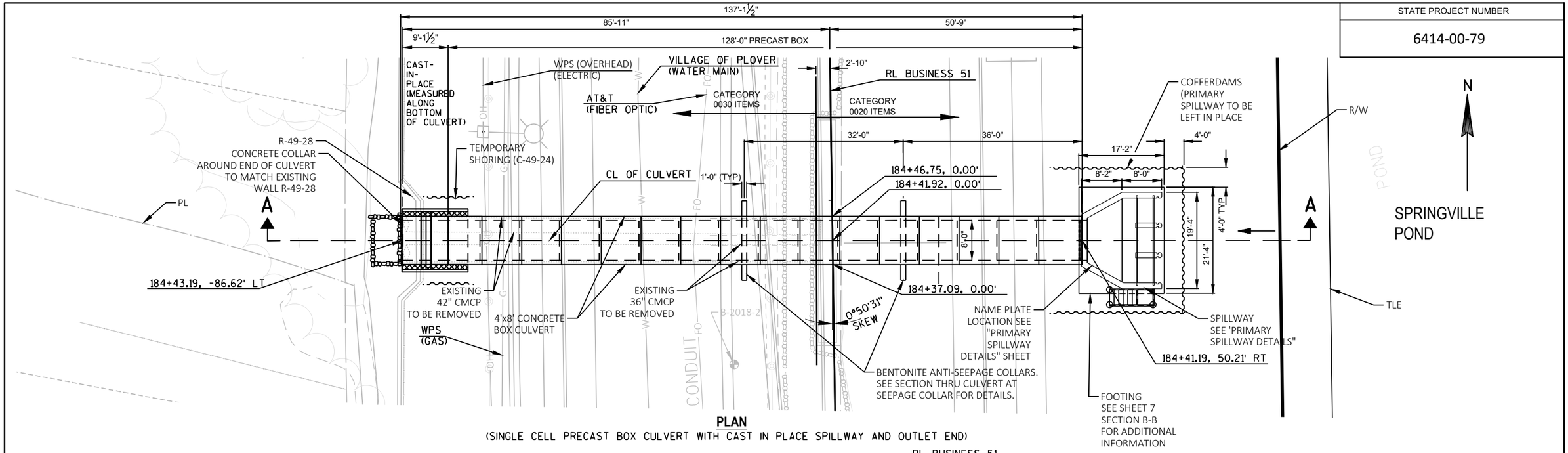
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 284 W06-3.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

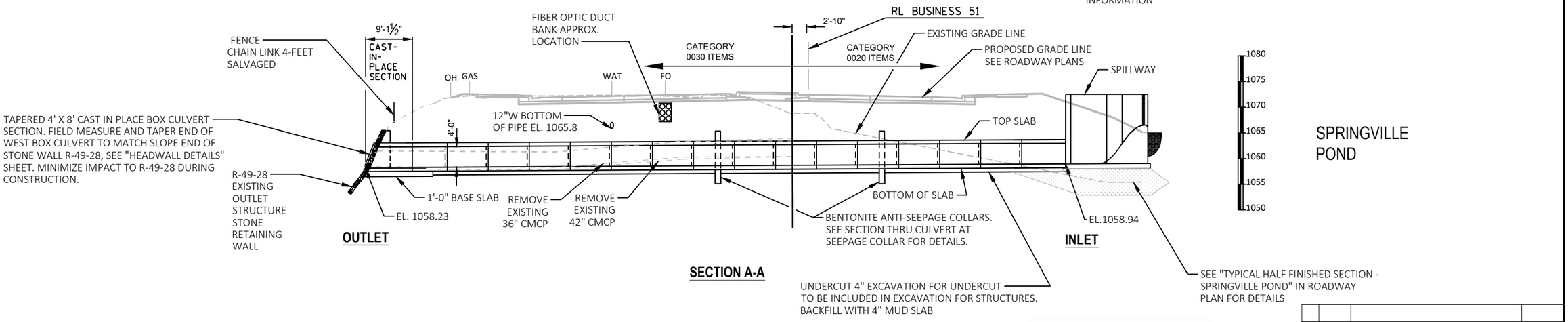
STATE PROJECT NUMBER

6414-00-79



PLAN

(SINGLE CELL PRECAST BOX CULVERT WITH CAST IN PLACE SPILLWAY AND OUTLET END)



SECTION A-A

DESIGN DATA

LIVELOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR = 1.05
OPERATING RATING FACTOR = 1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 255 KIPS

EARTHLOAD:

DESIGNED FOR FILL HEIGHT RANGE OF 8 TO 9 FEET.

MATERIAL PROPERTIES:

PRECAST CONCRETE	f'c = 4.0 K.S.I.
CONCRETE MASONRY	f'c = 3.5 K.S.I.
BAR STEEL REINFORCEMENT	fy = 60.0 K.S.I.
WIRE FABRIC	fy = 65.0 K.S.I.

TRAFFIC VOLUME

BUSINESS 51

A.D.T. (2018) = 13,000
A.D.T. (2038) = 15,200
DESIGN SPEED = 40 MPH

HYDRAULIC DATA

100 YEAR FREQUENCY

Q100	376 CFS
VELOCITY	12.96 FPS
HIGH WATER ELEVATION Q100	1070.54
WATERWAY AREA	32 SQ. FT.
DRAINAGE AREA	21.19 SQ. MI.
ROAD OVERTOPPING	N/A
SCOUR CODE	8

2 YEAR FREQUENCY

Q2	130 CFS
HIGH WATER ELEVATION Q2	1068.54

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. CROSS SECTIONS & QUANTITIES
3. SUBSURFACE EXPLORATION
4. PRECAST CONCRETE BOX CULVERT DETAILS
5. EXISTING CONDITIONS DETAILS
6. PRIMARY SPILLWAY DETAILS
7. PRIMARY SPILLWAY DETAILS
8. HEADWALL DETAILS
9. SLUICE GATE DETAILS
10. CHAIN LINK FENCE DETAILS
11. STAGING DETAILS
12. REMOVAL PLAN
13. REMOVAL PHOTO DETAILS
14. CONTOURS
15. RESTORATION PLAN
16. STORM LAKE DRAIN
17. PRIVATE SUPPLY LINE DETAILS



STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK (608) 261-0261

CONSULTANT:
DAVID ATKINS (920) 406-3145

AECOM PROJECT No. 60593566

NO.	DATE	REVISION	BY

AECOM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ SDR 12/17/20
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-49-24

BUSINESS 51 SPRINGVILLE DAM OUTLET STRUCTURE

COUNTY PORTAGE ~~TOWN/CITY~~/VILLAGE PLOVER

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
DAA	WC	CLL	CAB

GENERAL PLAN & ELEVATION

SHEET 1 OF 17
285

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STATE PROJECT NUMBER
6414-00-79

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	TOTALS	
			CAT 0020	CAT 0030
203.0100	REMOVING SMALL PIPE CULVERTS	EACH	-	2
204.0150	REMOVING CURB & GUTTER *	LF	-	120
204.0245	05. REMOVING STORM SEWER (42-INCH) *	LF	63	-
204.0245	06. REMOVING STORM SEWER (6-INCH)	LF	38	-
204.9060.S	01. REMOVING WATER LEVEL STAFF GAUGES	EACH	1	-
204.9105.S	01. REMOVING PRIMARY SPILLWAY STRUCTURE	LS	1	-
204.9105.S	02. REMOVING SLUICE GATE STRUCTURE (LAKE DRAIN)	LS	1	-
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-49-24	LS	-	1
206.5000	01. COFFERDAMS (LAKE DRAIN)	LS	1	-
206.5000	02. COFFERDAMS (PRIMARY SPILLWAY)	LS	1	-
209.2100	BACKFILL GRANULAR GRADE 2 *	CY	260	400
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH *	TON	-	140
455.0605	TACK COAT *	GAL	-	16
465.0125	ASPHALTIC SURFACE TEMPORARY *	TON	-	70
465.0310	ASPHALTIC CURB	LF	-	120
504.2000.S	PRECAST CONCRETE BOX CULVERT 4 FT X 8 FT	LF	53	75
511.1200	TEMPORARY SHORING (C-49-24)	SF	-	300
511.1300	TEMPORARY SHORING (LAKE DRAIN)	SF	-	480
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	4	5
522.1042	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 42-INCH *	EACH	1	-
603.8125	CONCRETE BARRIER TEMPORARY PRECAST INSTALLED *	LF	-	60
606.0300	RIPRAP HEAVY	CY	-	3
608.0342	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH *	LF	79	-
614.0360	STEEL PLATE BEAM GUARD TEMPORARY	LF	-	60
614.0920	SALVAGE RAIL	LF	-	60
616.0206	FENCE CHAIN LINK 6-FT *	LF	36	-
616.0404	FENCE CHAIN LINK SALVAGED 4-FT	LF	-	28
621.0100	LANDMARK REFERENCE MONUMENTS	EACH	3	-
625.0100	TOPSOIL *	SY	-	156
628.2006	EROSION MAT URBAN CLASS I TYPE A *	SY	-	156
630.0140	SEEDING MIXTURE NO. 40 *	LB	-	3
630.0500	SEED WATER *	MGAL	-	4
638.2102	MOVING SIGNS TYPE II	EACH	1	-
650.4000	CONSTRUCTION STAKING STORM SEWER *	EACH	2	-
650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (C-49-24)	LS	1	-
690.0150	SAWING ASPHALT *	LF	-	80
690.0250	SAWING CONCRETE *	LF	-	10
999.1000.S	SEISMOGRAPH	LS	1	-
SPV.0030	01. FERTILIZER FOR LAWN TYPE TURF *	CWT	-	0.1
SPV.0035	01. MUD SLAB	CY	7	10
SPV.0060	09. BENTONITE ANTI-SEEPAGE COLLAR	EACH	1	1
SPV.0060	10. GALVANIZED STEEL TRASH GUARDS	EACH	1	-
SPV.0060	11. WATER LEVEL STAFF GAUGES	EACH	1	-
SPV.0090	07. UV GRP CIPP 42-INCH (LAKE DRAIN)	LF	-	97
SPV.0105	02. PARTIALLY REMOVING VAULT STRUCTURE (PRIVATE SUPPLY LINE)	LS	1	-
SPV.0105	03. PRIMARY SPILLWAY STRUCTURE	LS	1	-
SPV.0105	04. OPERTOR WALKWAY BRIDGE	LS	1	-
SPV.0105	05. ACCESS STAIR	LS	1	-
SPV.0105	06. SLUICE GATE STRUCTURE	LS	1	-
SPV.0105	07. LAKE DRAIN SLIDE GATE (42-INCH)	LS	1	-
SPV.0105	08. PRIVATE SUPPLY SLIDE GATE (12-INCH)	LS	1	-
SPV.0105	09. PRIVATE SUPPLY LINE	LS	1	-
SPV.0105	10. TEMPORARY WATER DIVERSION	LS	1	-
SPV.0105	11. REMOVE, SALVAGE, AND REINSTALL RETAINING WALL STONES	LS	-	1
SPV.0105	12. CULVERT DOWNSTREAM END SECTION (C-49-24)	LS	-	1
SPV.0180	02. PREPARING TOPSOIL FOR LAWN TYPE TURF *	SY	-	156
SPV.0195	01. BACKFILL GRANULAR GRADE 2 SPECIAL *	TON	1,400	2,100
SPV.0195	02. HAULING AND DISPOSAL OF PAH CONTAMINATED SEDIMENT *	TON	-	1,310

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN THE PLANS.

GENERAL NOTES

STRUCTURE SHALL BE A BOX CULVERT WITH INSIDE OF CELL MEASURING 8' WIDE x 4' HIGH x 137' 1 1/2" LONG. 128'-0" OF THE CULVERT LENGTH IS PREFABRICATED REINFORCED CONCRETE BOX CULVERT. 9'-1 1/2" IS A CAST IN PLACE REINFORCED CONCRETE BOX CULVERT. THE INLET END OF THE CULVERT CONSISTS OF A CAST IN PLACE REINFORCED CONCRETE SPILLWAY STRUCTURE.

DRAWINGS SHALL NOT BE SCALED.

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

STRUCTURE BACKFILL IS REQUIRED BEHIND ALL WING WALLS.

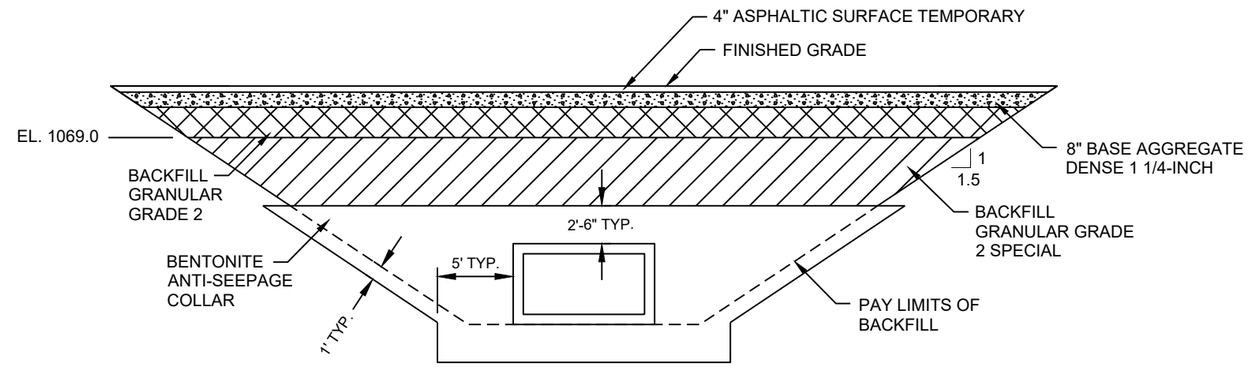
WITHIN THE LENGTH OF THE BOX, ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL GRANULAR GRADE 2 SPECIAL TO THE ELEVATION AND SECTION EXISTING PRIOR TO EXCAVATION WITHIN THE LENGTH OF THE CULVERT.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-47-24" SHALL BE THE EXISTING GROUND LINE.

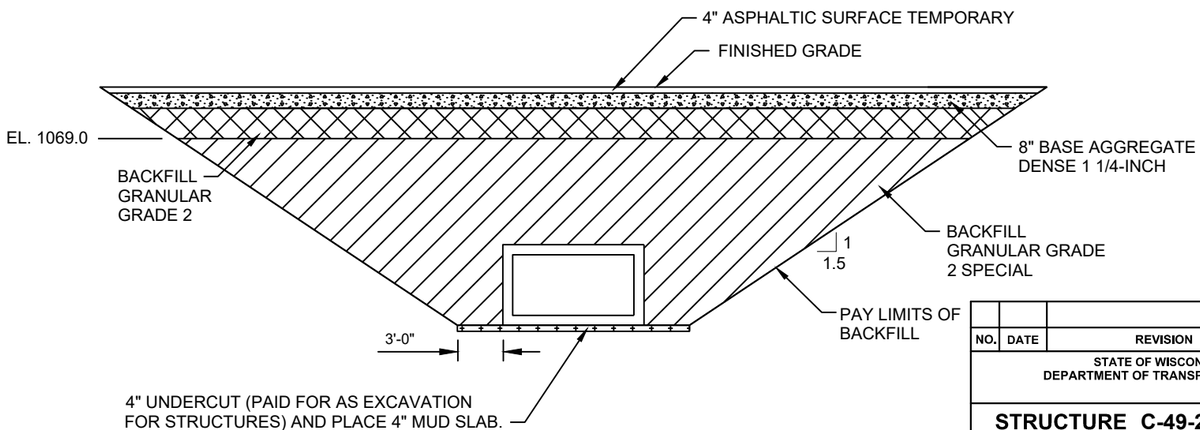
THE FILL QUANTITIES ARE BASE ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. FILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

DAMAGE TO EXISTING STONE WALL R-49-28 IS THE LIABILITY OF THE CONTRACTOR.

ALL EXCAVATED MATERIAL BELOW THE WATER TABLE (APPROXIMATELY EL. 1067.0) SHALL BE CONSIDERED CONTAMINATED WITH POLYCYCLIC AROMATIC HYDROCARBON (PAH) AND DISPOSED OF UNDER THE "HAULING AND DISPOSAL OF PAH CONTAMINATED SEDIMENT" ITEM.



CROSS SECTION THRU ANTI-SEEPAGE COLLAR
(LOOKING UPSTREAM)



CROSS SECTION THRU BOX CULVERT
(LOOKING UPSTREAM)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-49-24

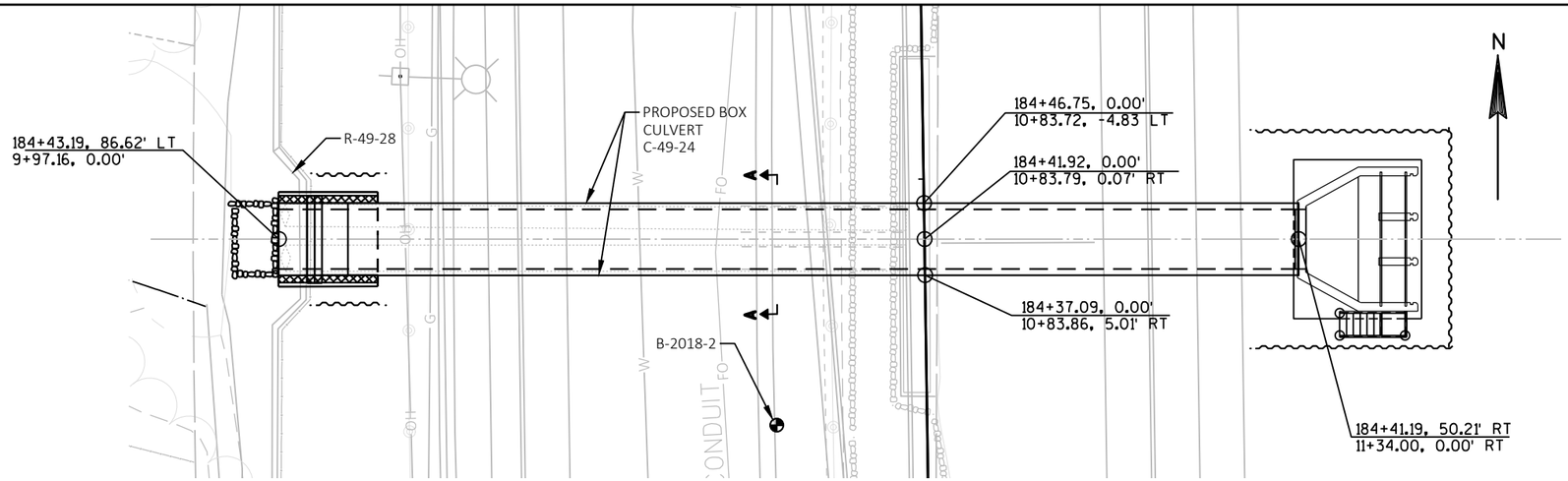
DRAWN BY CLL | PLANS CK'D. CAB

CROSS SECTION & QUANTITIES

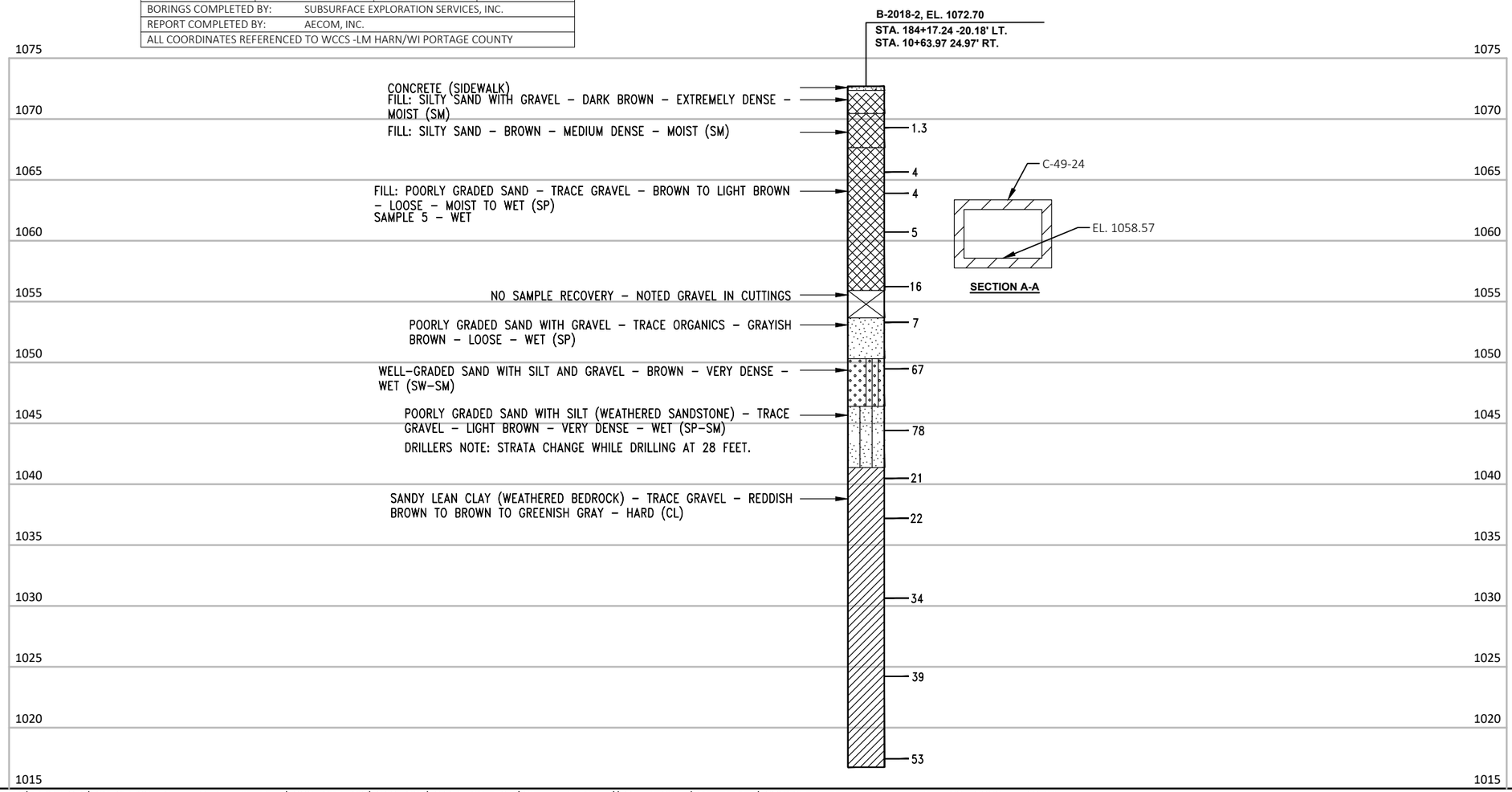
SHEET 2 OF 17
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BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
B-2018-2	12/18/2018	184210.28±	172622.16±
BORINGS COMPLETED BY:	SUBSURFACE EXPLORATION SERVICES, INC.		
REPORT COMPLETED BY:	AECOM, INC.		
ALL COORDINATES REFERENCED TO WCCS -LM HARN/WI PORTAGE COUNTY			



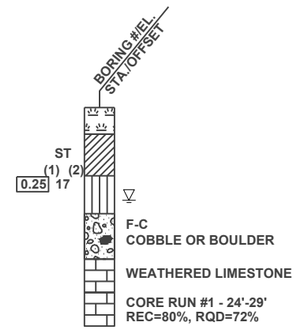
STATE PROJECT NUMBER

6414-00-79

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
shale	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

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

STRUCTURE C-49-24

DRAWN BY CLL | PLANS CK'D. MSK

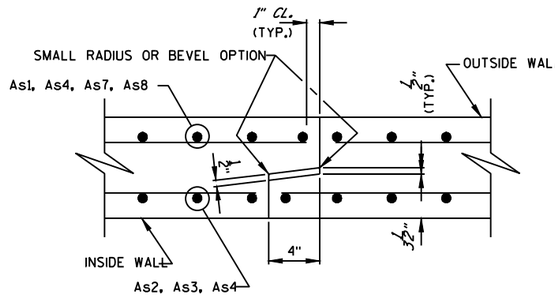
SUBSURFACE EXPLORATION

SHEET 3 OF 17
287

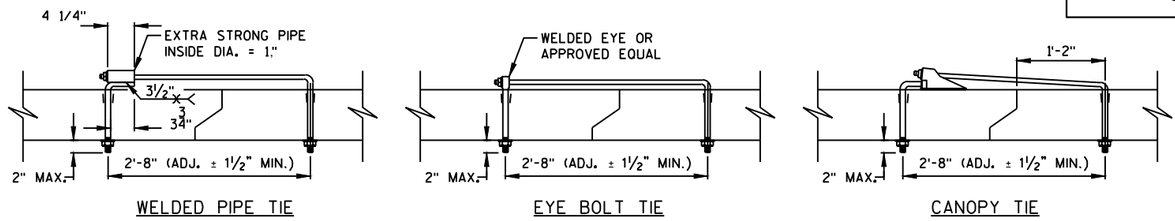
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STATE PROJECT NUMBER
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JOINT DETAIL



JOINT TIES

NOTES:
EITHER EYE BOLT TIES, WELDED PIPE TIES OR CANOPY TIES MAY BE USED. THREADS MAY BE CUT OR ROLLED. TIE NUTS SHALL BE TIGHTENED AS DIRECTED BY THE ENGINEER. (2 TIES REQUIRED PER JOINT.) (TIES TO BE GALVANIZED.)

NOTES

DETAILS FOR MATERIALS, FABRICATION, CONSTRUCTION AND DESIGN OF PRECAST BOX CULVERTS NOT SHOWN OR STATED ON THIS DRAWING SHALL BE IN ACCORDANCE WITH THE CURRENT ASTM SPECIFICATION, C1577; AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS; WISCONSIN DOT BRIDGE MANUAL; WISCONSIN DOT STANDARD SPECIFICATIONS & APPLICABLE SPECIAL PROVISIONS. EXCEPT THAT THE CONCRETE MIXTURE SHALL CONTAIN NOT LESS THAN 565 LBS. OF CEMENTITOUS MATERIALS PER CUBIC YARD.

THE DESIGN OF PRECAST BOX CULVERTS WITH ALL FILL HEIGHTS SHALL BE AS STATED IN ASTM C1577.

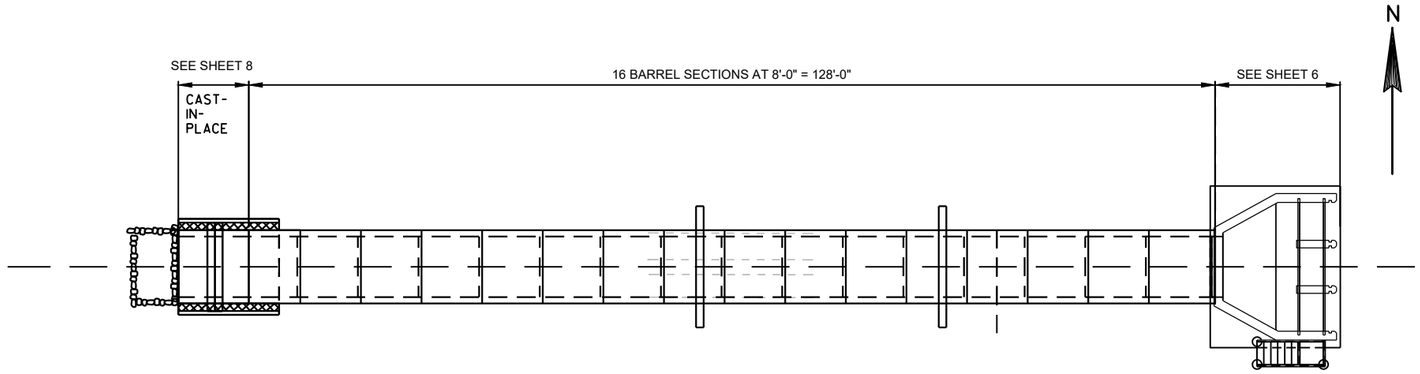
ALL PRECAST BOX SECTIONS SHALL BE PLACED ON A MUD SLAB OF 4" MINIMUM DEPTH.

THE COVER OF CONCRETE OVER THE REINFORCEMENT SHALL BE 1 INCH OR 2 INCHES AS SHOWN WITH AN ALLOWABLE VARIATION OF -⅜" TO +½" INCH.

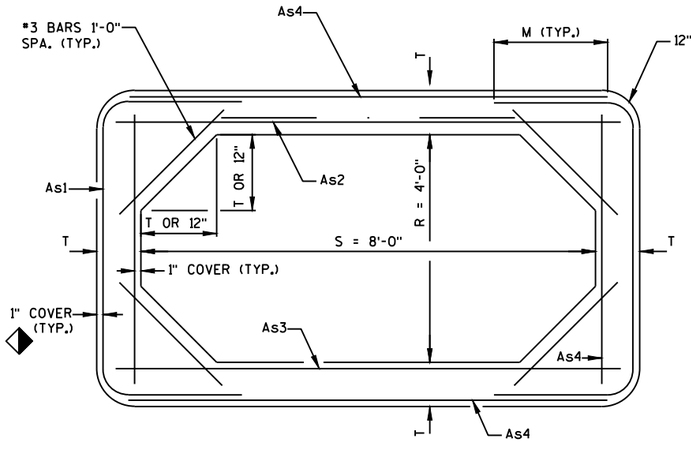
THE SPACING CTR. TO CTR. OF THE CIRCUMFERENTIAL WIRES SHALL BE NOT LESS THAN 2 INCHES NOR MORE THAN 4 INCHES. THE SPACING CTR. TO CTR. OF THE LONGIT. WIRES SHALL NOT BE MORE THAN 8 INCHES.

NOT MORE THAN FOUR (4) HOLES MAY BE CAST, DRILLED OR OTHERWISE NEATLY MADE IN THE SHELL OF EACH PIECE OF BOX SECTION FOR HANDLING. THE HOLES SHALL BE TAPERED, UNLESS DRILLED. THE HOLES SHALL BE FILLED WITH PORTLAND CEMENT MORTAR EXCEPT TAPERED HOLES MAY BE FILLED WITH CONCRETE PLUGS SECURED WITH PORTLAND CEMENT MORTAR OR OTHER APPROVED ADHESIVE.

THE JOINT ON THE BOTTOM, TOP AND SIDES SHALL BE SEALED WITH A PREFORMED MASTIC. PREFORMED MASTIC MUST CONFORM TO AASHTO MATERIALS SPEC. M198, TYPE B. A 2'-0" STRIP OF GEOTEXTILE TYPE DF SCHEDULE A SHALL BE PLACED OVER THE JOINTS ON THE TOP AND ON THE SIDES OF THE CULVERT. THE GEOTEXTILE SHALL CONFORM TO SECTION 645.2.2.4 OF THE STANDARD SPECIFICATION. GEOTEXTILE TYPE DF SCHEDULE A SHALL BE INCIDENTAL TO THE BID ITEM "PRECAST CONCRETE BOX CULVERT 4FT X 8 FT".



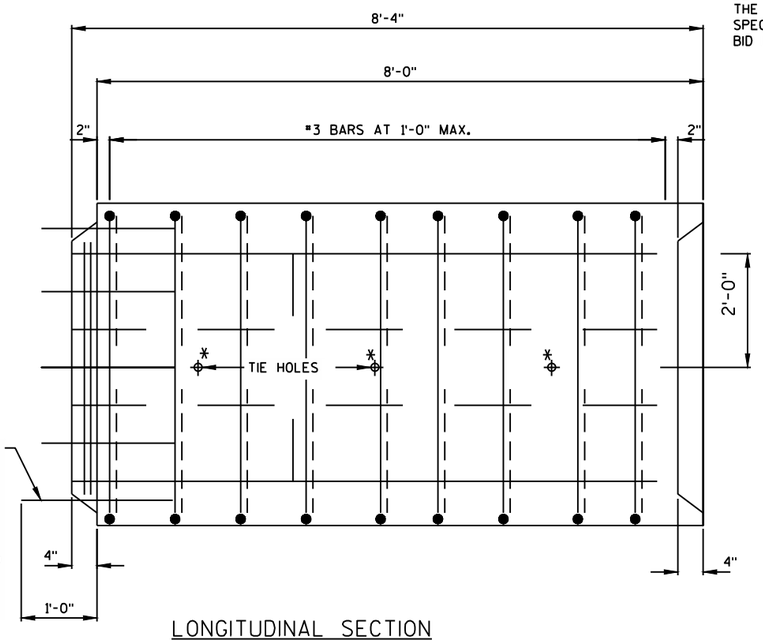
PLAN
MULTICELL INSTALLATION



SECTION THRU BARREL

◆ 1" OR 3 x WIRE DIAMETER, WHICHEVER IS GREATER.

FOR EXTERNAL PANEL (ADJACENT TO CAST IN PLACE OUTLET END AND CAST IN PLACE PRIMARY SPILLWAY ON INLET END PLACE *5 BARS 2'-0" LONG AT 1'-0" SPACING IN BOTTOM SLAB, TOP SLAB AND SIDEWALLS. OMIT TONGUE OR GROOVE ADJACENT TO CAST IN PLACE OUTLET END AND CAST IN PLACE PRIMARY SPILLWAY ON INLET END.



LONGITUDINAL SECTION

* CULVERT TIES ARE TO BE 1" DIA. RODS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-49-24

DRAWN BY CLL | PLANS CK'D. CAB

PRECAST CONCRETE BOX CULVERT DETAILS

SHEET 4 OF 17
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STATE PROJECT NUMBER
6414-00-79

CAUTION, SENSITIVE AREA
R-49-28
HISTORIC PROPERTY
EXISTING R/W
WPS (ELECTRIC), CHARTER
WPS(GAS)
ROCK RETAINING WALL STRUCTURE
INV 1057.81
INV 1058.01
PRIVATE SUPPLY LINE
PL
BM 18
HISTORIC PROPERTY
SPRINGVILLE DRIVE
LAKE DRAIN
BUSINESS 51
BUS 51
VILLAGE OF PLOVER
AT&T
CONDUIT
TEL MH
PT : 181+95.52
183+00
184+00
185+00
186+00
187+00
INV 1058.10
INV 1058.20
RIPRAP GROUTED
DNR ALUMINUM SURVEY MONUMENT EL. 1067.35
WATER LEVEL STAFF GAUGE
BM 17
EXISTING R/W
SPRINGVILLE POND
POND
PVC PIPE
SCALE
0' 20' 40'

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
17	181+52.0, 6.8' RT	NE FLANGE BOLT ON HYD AT SE COR POST RD & SPRINGVILLE DR	1076.15
18	185+15.0, 86.3' LT	MARK ON NE COR RETAINING WALL TO POOL W/S POST RD NS PLOVER RVR	1072.45

COORDINATES TIED TO WISCONSIN COUNTY COORDINATES SYS., PORTAGE COUNTY NAD 83 (2011). NAVD 88 CHECKED TO GLENMORE W. GPS STATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-49-24

DRAWN BY CLL | PLANS CK'D. SLE

EXISTING CONDITIONS DETAILS

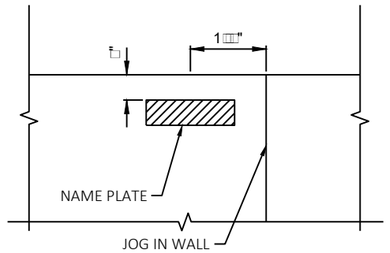
SHEET 5 OF 17
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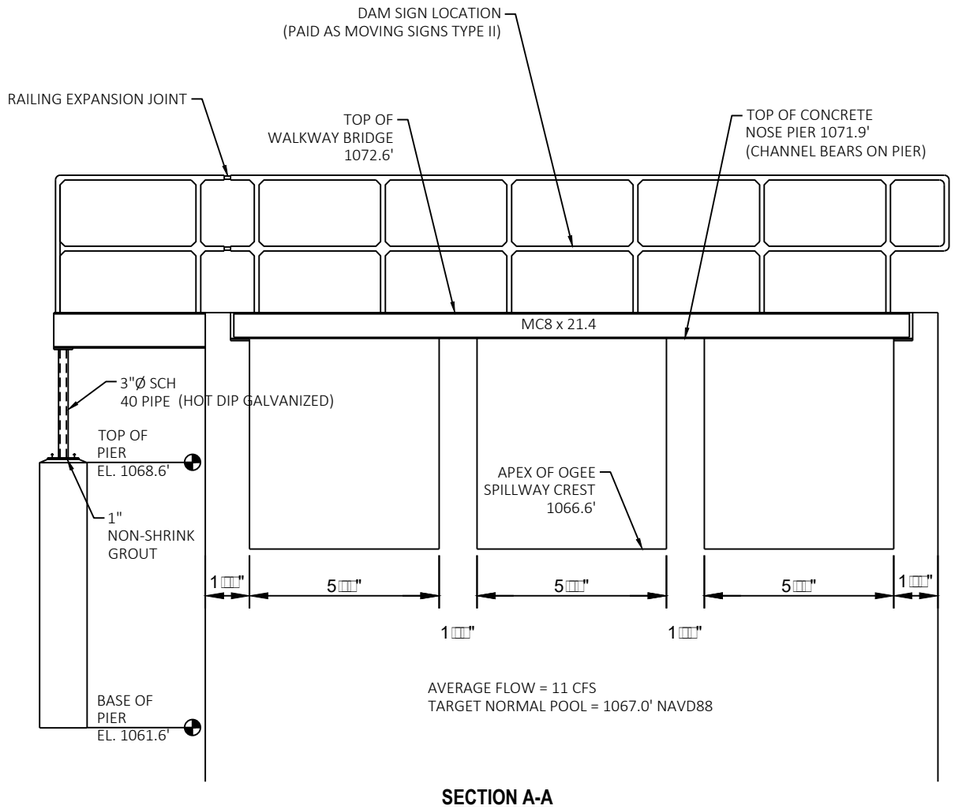
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STATE PROJECT NUMBER

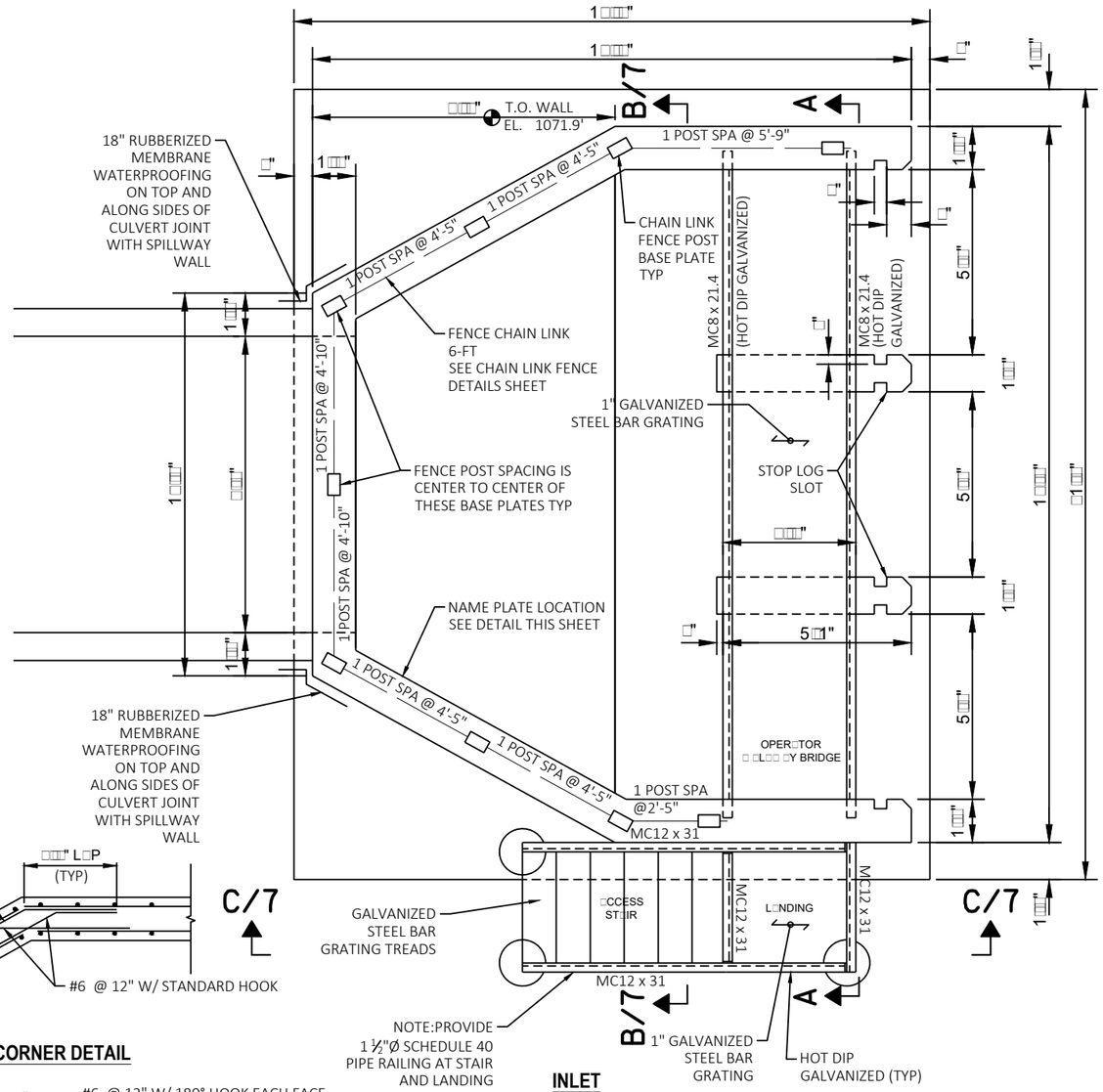
6414-00-79



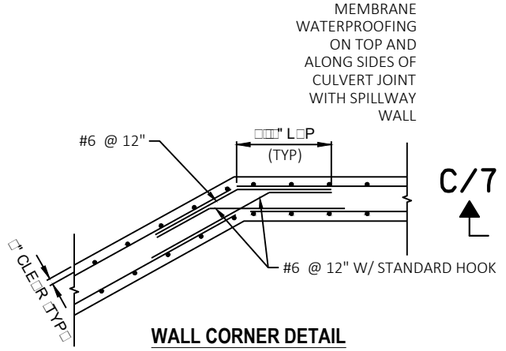
NAME PLATE DETAIL



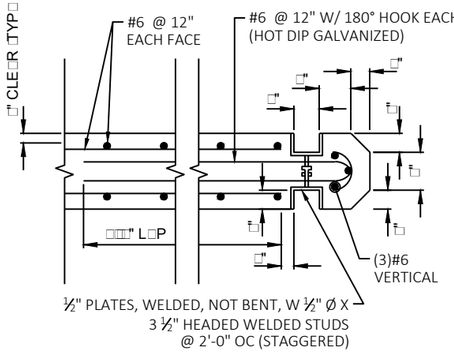
SECTION A-A



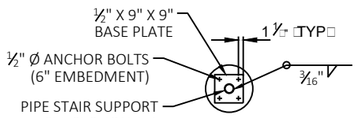
INLET



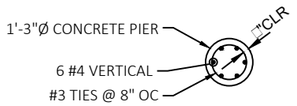
WALL CORNER DETAIL



DETAIL AT STOP LOG SLOT



BASE PLATE AT ACCESS STAIR



CONCRETE PIER AT ACCESS STAIR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-49-24

DRAWN BY CLL | PLANS CK'D. DAA

PRIMARY SPILLWAY DETAILS

SHEET 290 — 6 OF 17

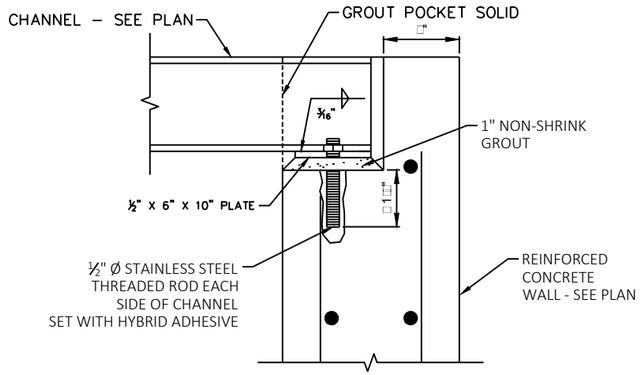
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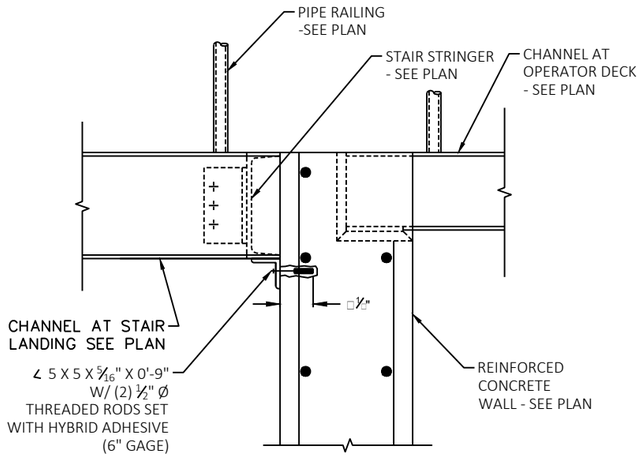
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STATE PROJECT NUMBER

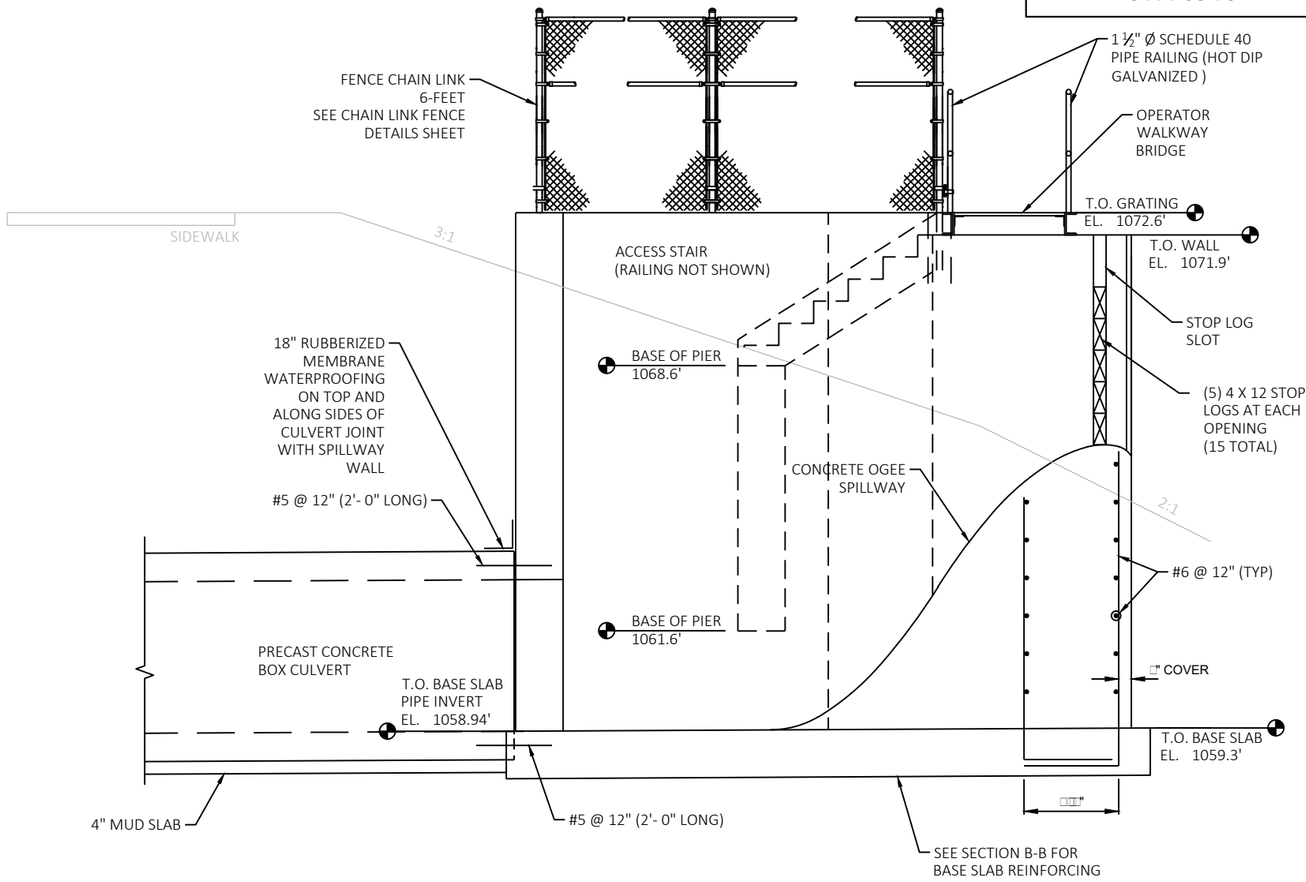
6414-00-79



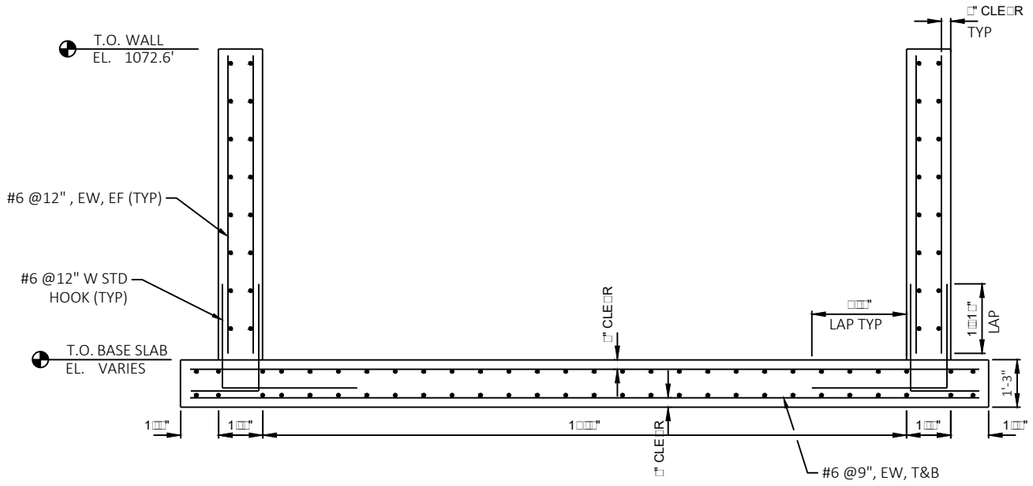
CHANNEL BEARING DETAIL AT OPERATOR WALKWAY BRIDGE



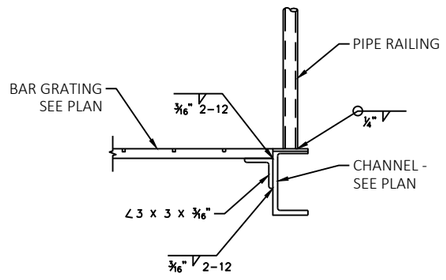
ACCESS STAIR CONNECTION DETAIL



LONGITUDINAL SECTION C-C



SECTION B-B



DETAIL AT OPERATOR WALKWAY BRIDGE

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-49-24

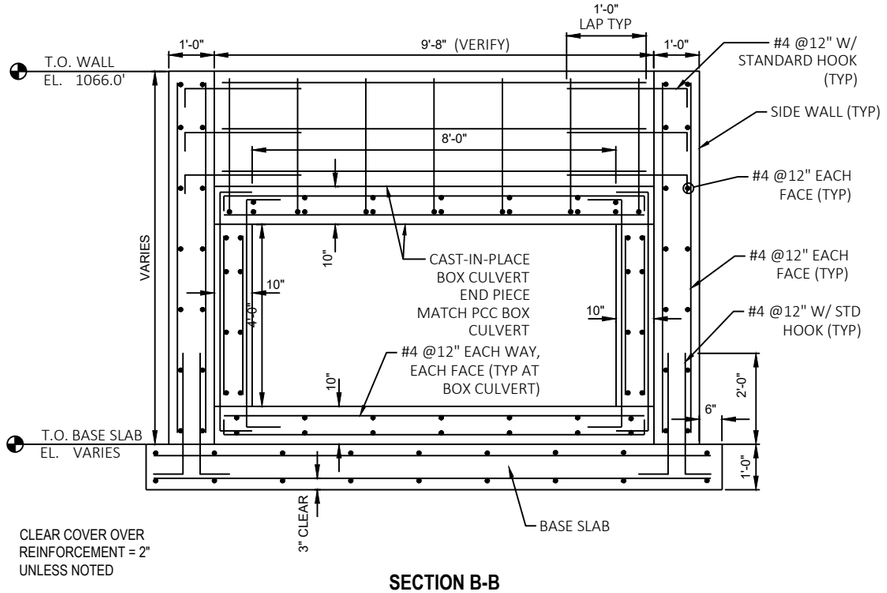
DRAWN BY CLL | PLANS CK'D. DAA

PRIMARY SPILLWAY DETAILS

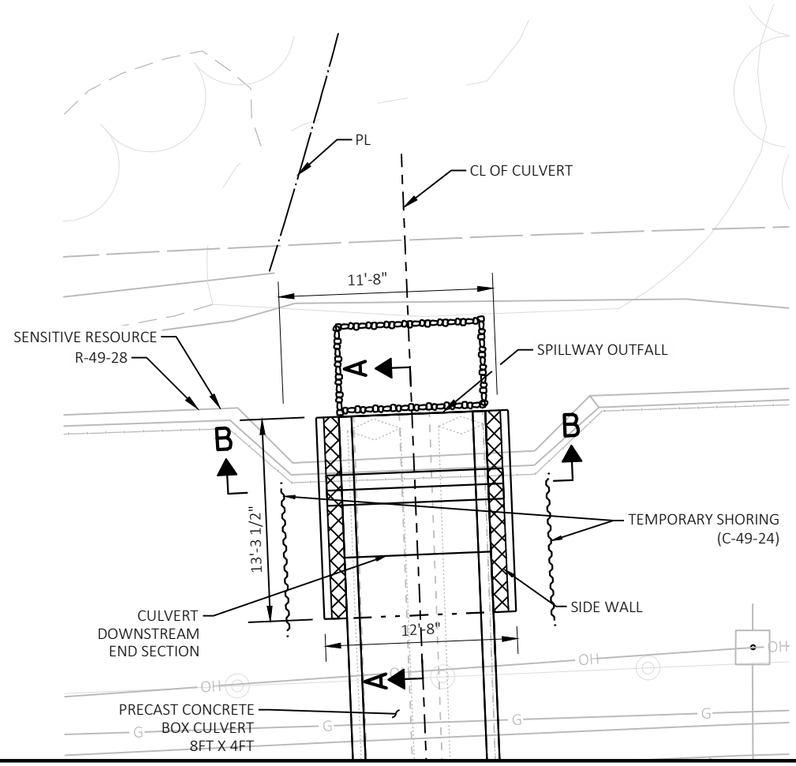
SHEET 7 OF 17
291

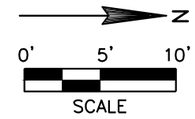
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STATE PROJECT NUMBER
6414-00-79



SECTION B-B

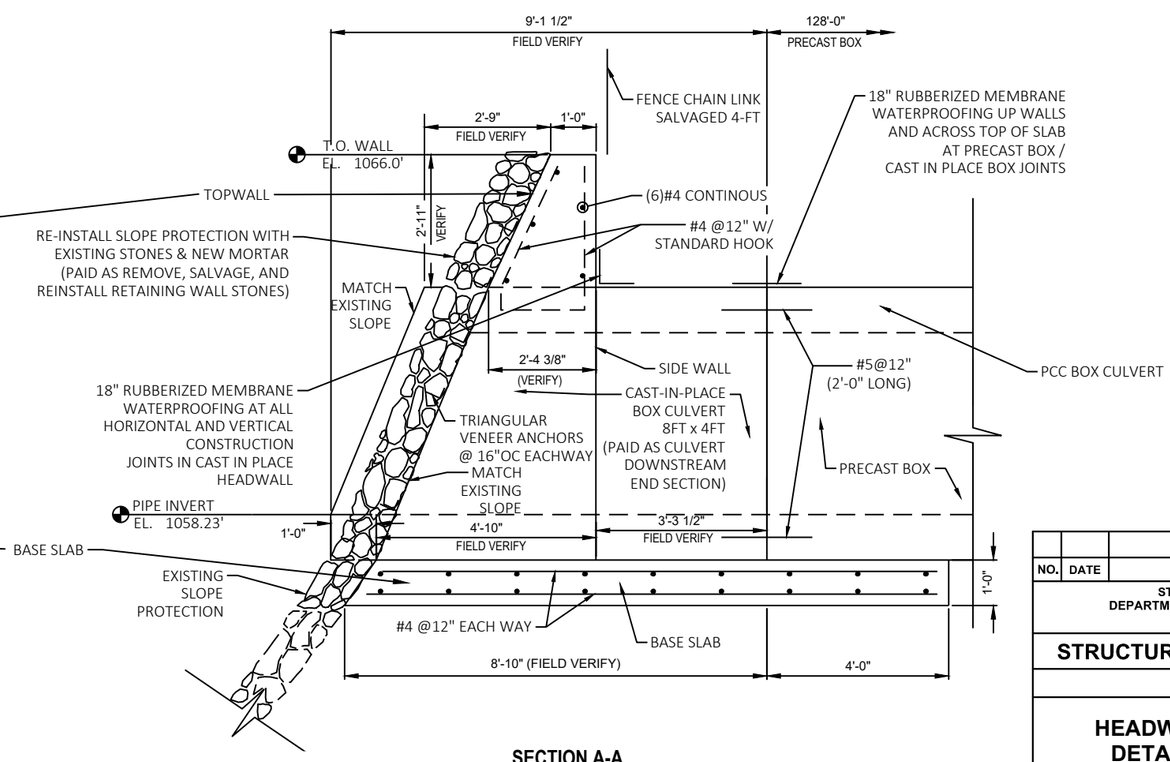




NOTE: SEE ROADWAY PLANS FOR PROPOSED ROADWAY AND STORM SEWER DETAILS NOT SHOWN.



GENERAL LIMITS OF "REMOVE, SALVAGE, AND REINSTALL RETAINING WALL STONES". EXACT LIMITS TO BE DETERMINED BY THE ENGINEER AS TO REDUCE IMPACTS TO RETAINING WALL R-49-28, A SENSITIVE RESOURCE.



SECTION A-A

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-49-24

DRAWN BY CLL | PLANS CK'D. DAA

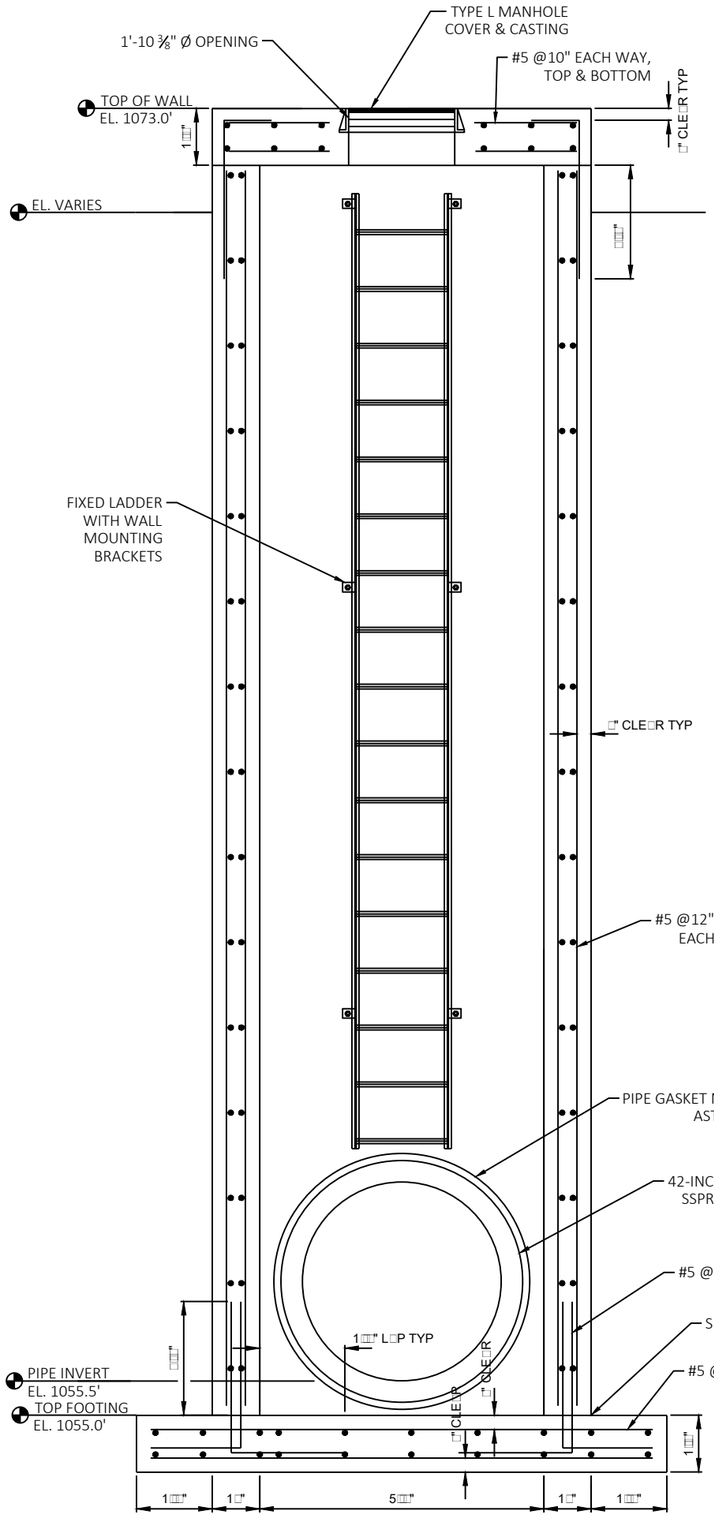
HEADWALL DETAILS

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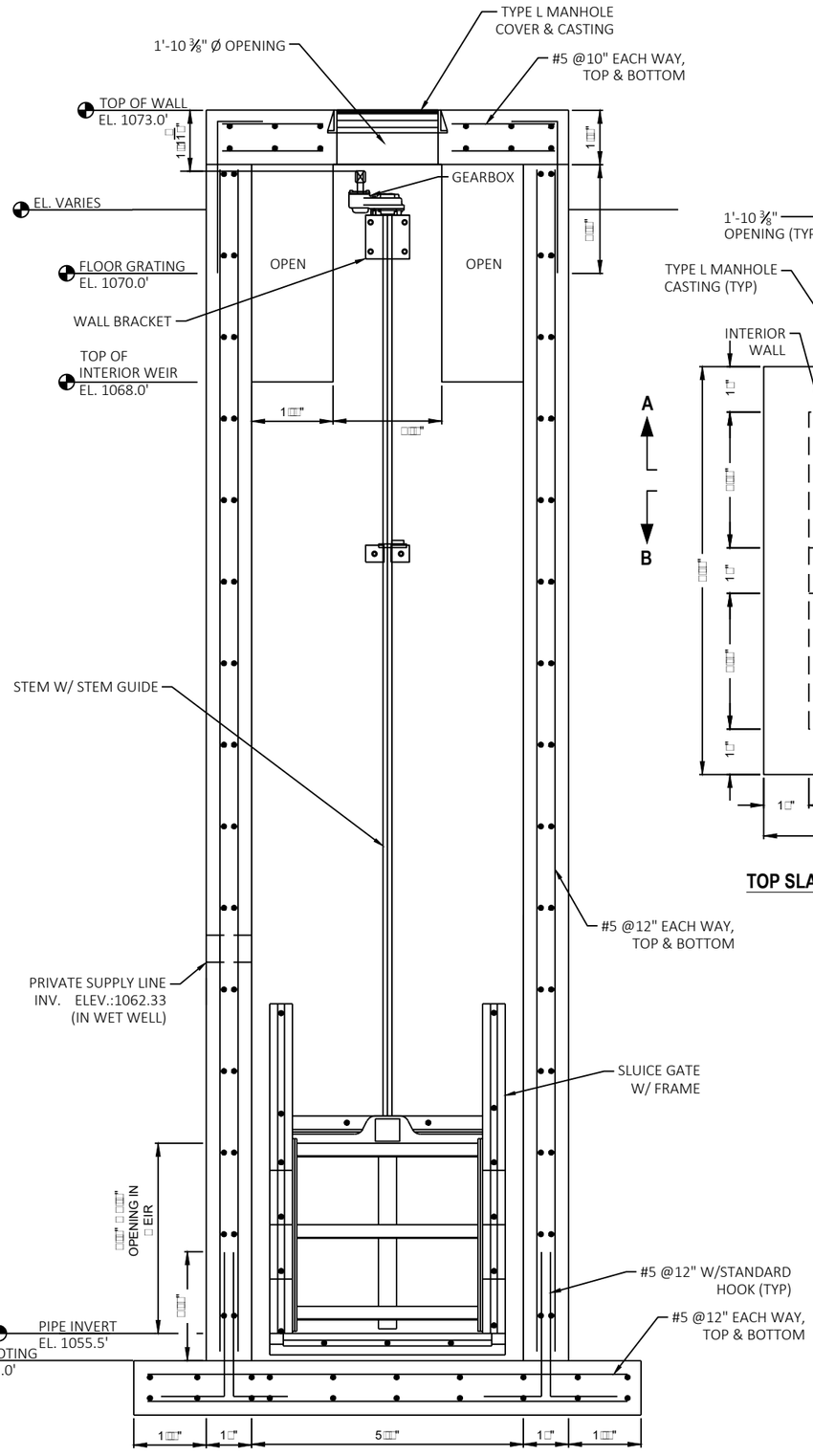
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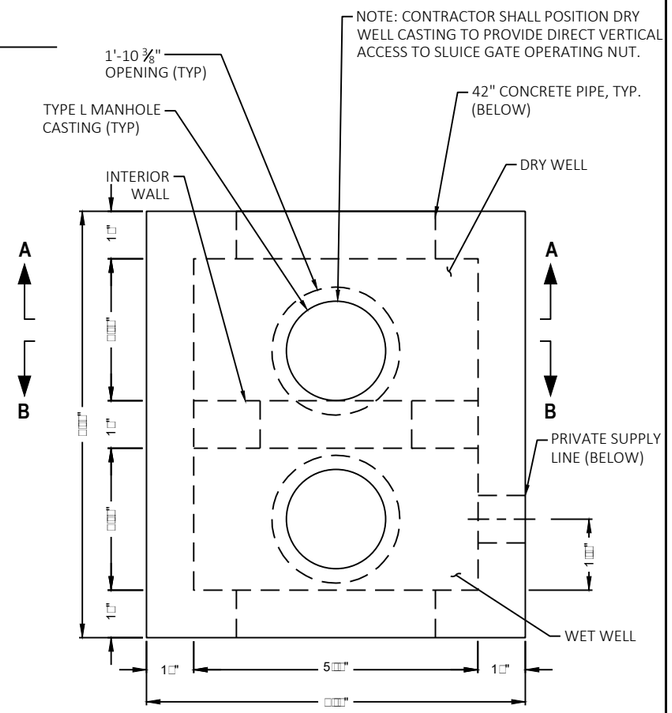
STATE PROJECT NUMBER
6414-00-79



SECTION A-A THROUGH DRY WELL AT SLUICE GATE STRUCTURE, FACING WEST



SECTION B-B THROUGH DRY WELL AT SLUICE GATE STRUCTURE, FACING EAST



TOP SLAB PLAN AT SLUICE GATE STRUCTURE

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-49-24

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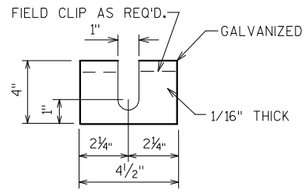
SLUICE GATE DETAILS

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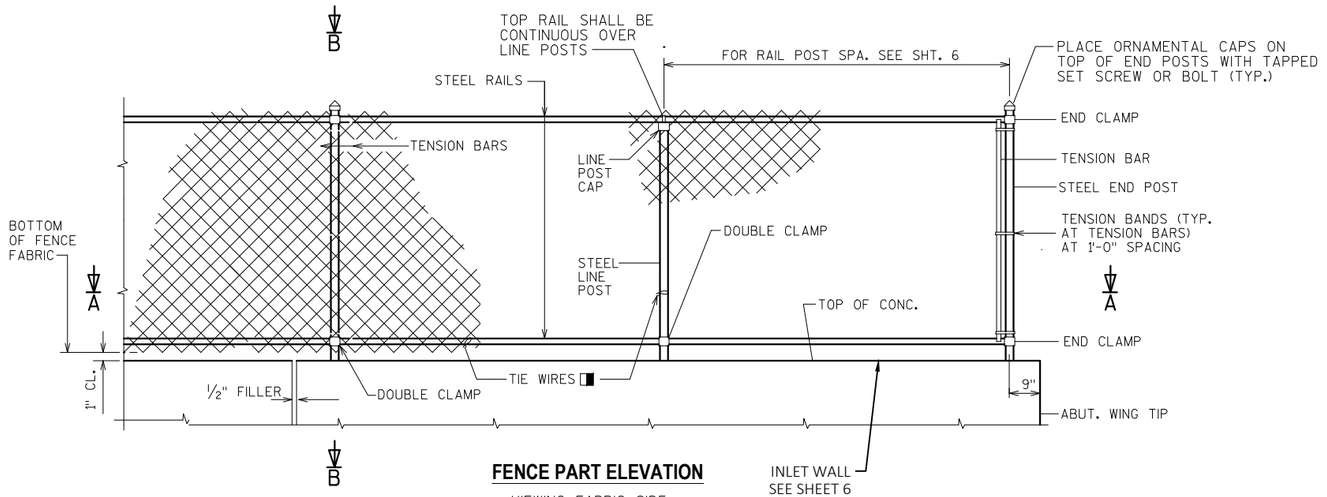
FENCE MEMBER SIZE & WEIGHT

STEEL FENCE MEMBER	OUTSIDE DIAMETER (INCHES)	WEIGHT (LB/FT)
RAILS	1.660	2.27
END POST	2.875	5.80
LINE POST	2.375	3.65
POST SLEEVE	4.000	9.12



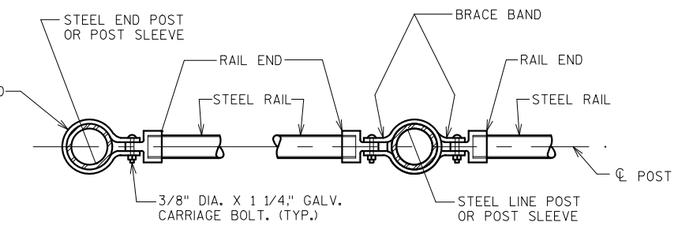
POST SHIM DETAILS

SHIMS REQUIRED ONLY WHEN END POSTS AND LINE POSTS ARE WELDED TO BASE PLATES. PROVIDE 4 SHIMS PER POST. USE WHERE REQUIRED FOR ALIGNMENT.



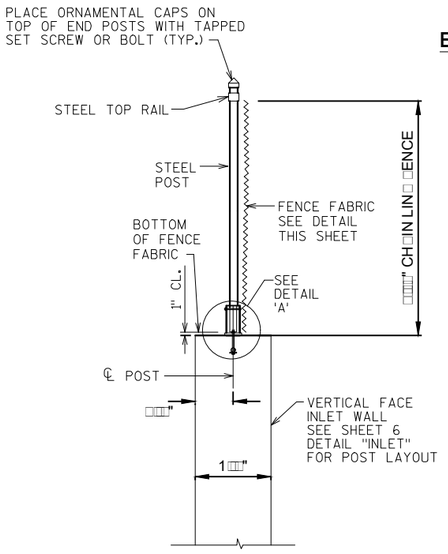
FENCE PART ELEVATION

VIEWING FABRIC SIDE

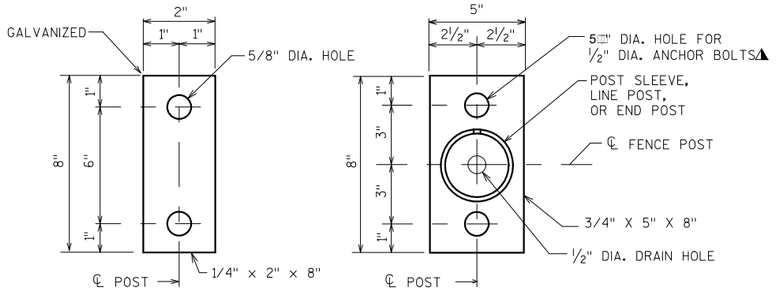


END CLAMP

✳ DOUBLE CLAMP



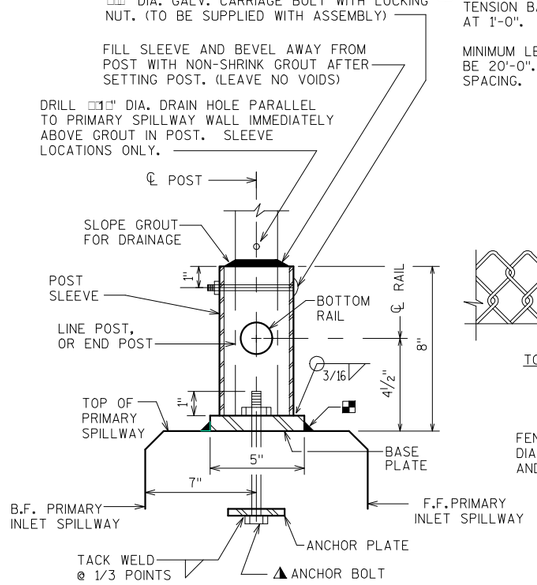
DETAIL 'B'
FENCE SECTION THRU INLET



ANCHOR PLATE

☆Note: Anchor plate not required when adhesive anchors are used.

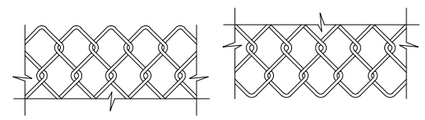
BASE PLATE



DETAIL 'A'

UNIT SHALL BE GALVANIZED AFTER FABRICATION

NOTE: IN LIEU OF USING THE POST SLEEVE, THE FENCE POST MAY BE WELDED TO THE BASE PLATE.



FENCE FABRIC

FENCE FABRIC WOVEN OF 9-GAGE WIRE IN 2" DIAMOND PATTERN MESH WITH BOTH THE TOP AND BOTTOM SELVAGES KNUCKLED.

NOTES

POSTS ARE TO BE SET VERTICAL.

ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL, EXCEPT THE FABRIC WHICH MAY BE ALUMINUM-COATED OR GALVANIZED STEEL.

STEEL RAILS, POSTS AND POST SLEEVES SHALL CONFORM TO ASTM F1083, STANDARD WEIGHT PIPE (SCHEDULE 40). FITTINGS SHALL CONFORM TO ASTM F626. SEE THE "BRIDGE SPECIAL PROVISIONS" FOR ADDITIONAL DETAILS.

THE BID ITEM SHALL BE "FENCE CHAIN LINK 6- FT.

COMPLETE ANY REQUIRED WELDING OF COMPONENTS BEFORE GALVANIZING.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

BASE PLATES, ANCHOR PLATES AND SHIMS SHALL BE ASTM A709, GRADE 36.

ALL POST SPACINGS ARE MEASURED HORIZONTALLY ALONG THE C/L OF THE POST.

▪ CAULK AROUND PERIMETER OF BASE PLATE AND FILL PORTION OF SLOTTED HOLE AROUND ANCHOR BOLT IN SHIM WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

✳ ALTERNATE TO DOUBLE CLAMP: USE LINE RAIL CLAMP (BOULEVARD) OR 180° BRACE BAND, WHICH MAY BE USED WHEN THE POSTS ARE EITHER BOLTED TO THE POST SLEEVES OR DIRECTLY WELDED TO THE BASE PLATE.

▲ ½" DIA. X 6⅞" LONG GALVANIZED HEX BOLT WITH NUT & WASHER.

☆ ALTERNATIVE ANCHORAGE: CONCRETE ADHESIVE ANCHORS ½-INCH. EMBED 7" IN CONCRETE. ADHESIVE ANCHORS SHALL CONFORM TO SECTIONS 502.2.12 AND 502.3.14 OF THE STANDARD☆ SPECIFICATIONS.

◨ ATTACH FABRIC TO RAILS, AND TO POSTS WITHOUT TENSION BANDS, WITH TIE WIRES (ROUND, 9-GAGE) SPACED AT 1'-0".

MINIMUM LENGTH OF TOP RAIL BETWEEN SPLICES SHALL BE 20'-0". LOCATE SPLICES NEAR ¼ POINT OF POST SPACING.

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NO.	DATE	REVISION	BY

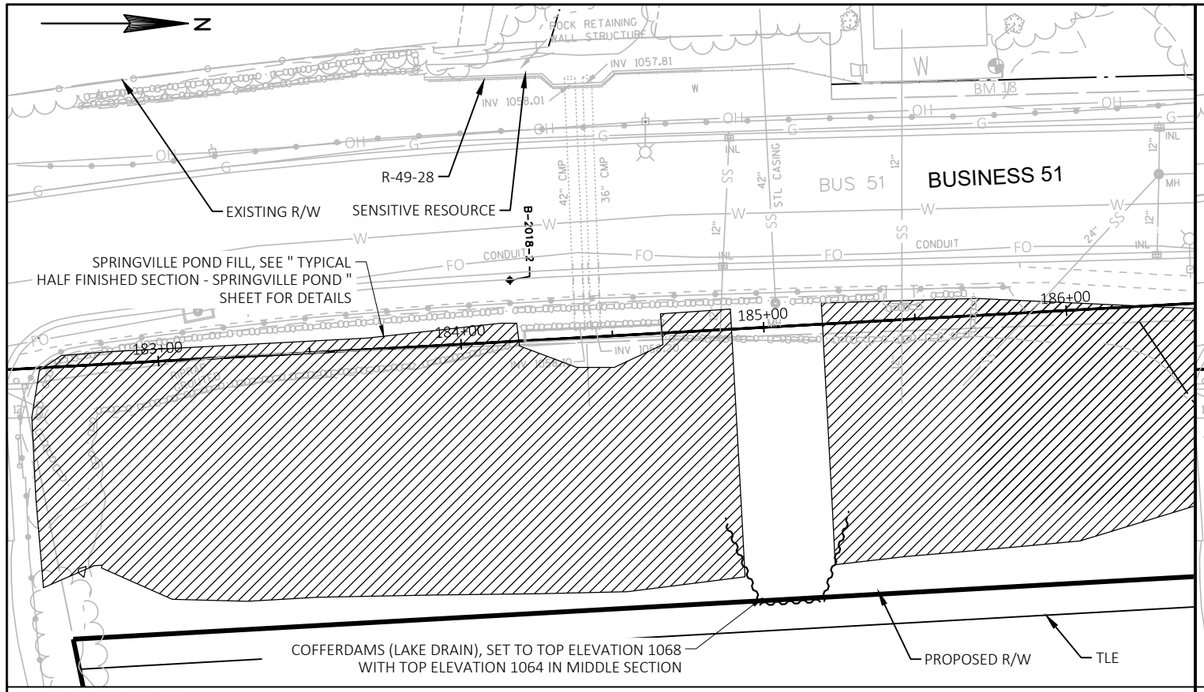
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-49-24

DRAWN BY CLL | PLANS CK'D. CAB

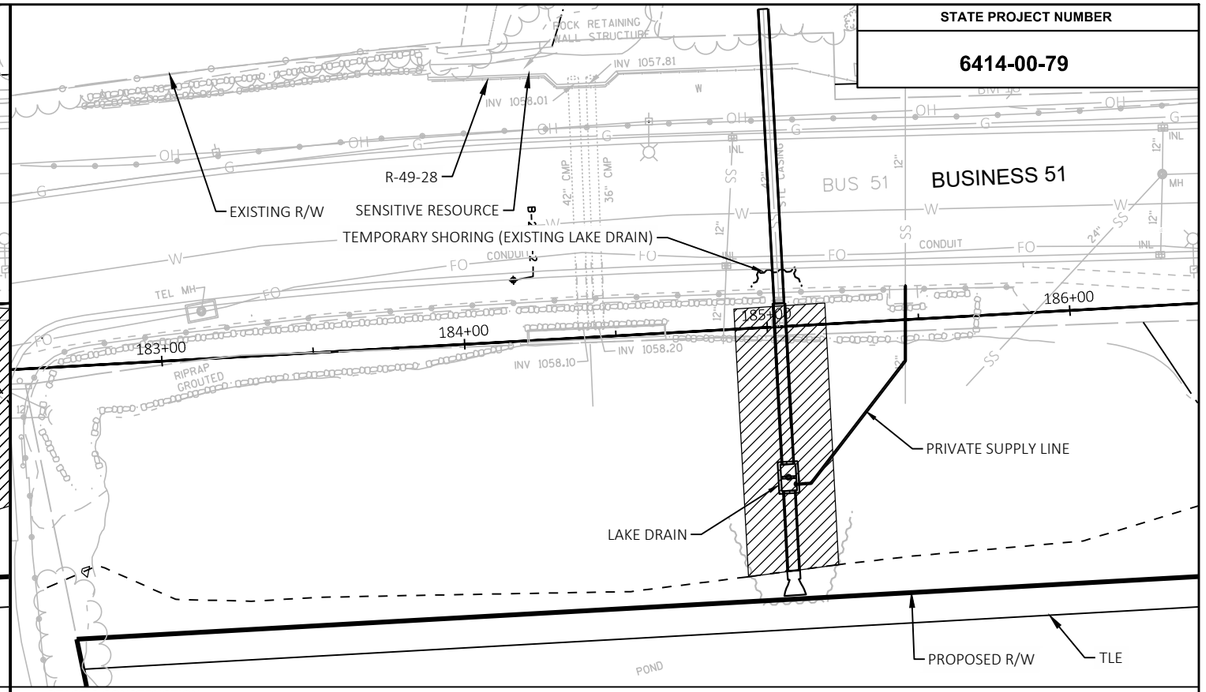
CHAIN LINK FENCE DETAILS

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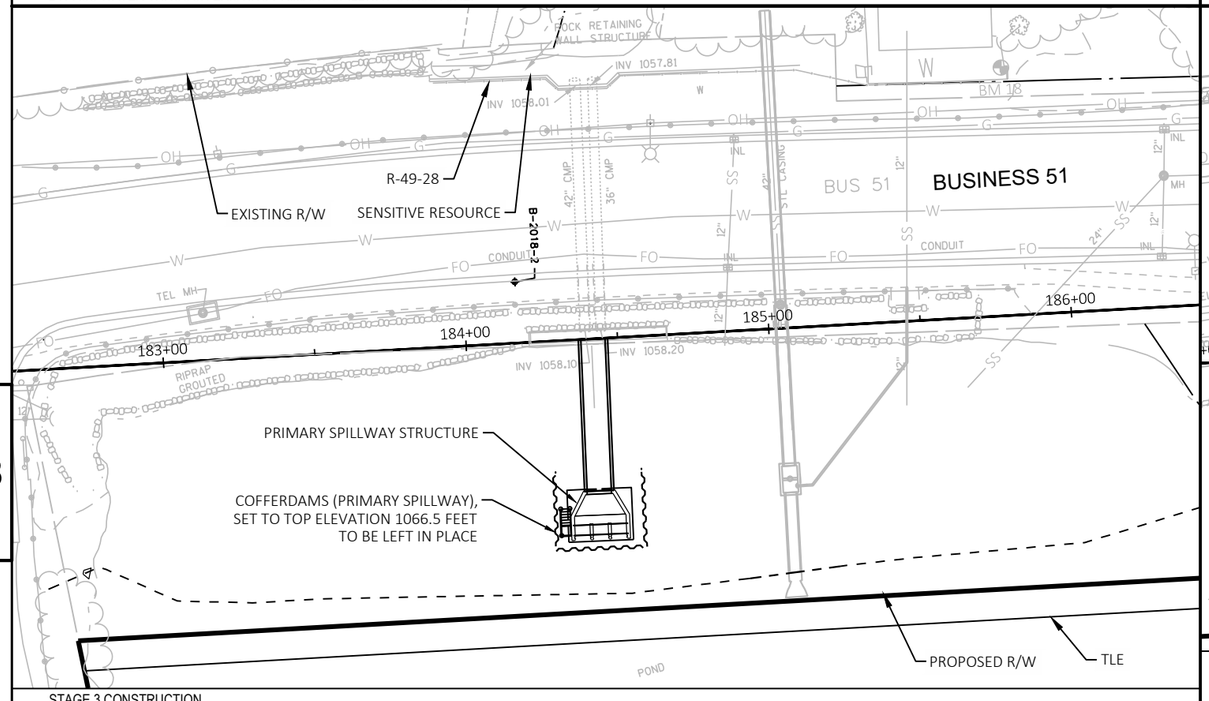
STAGE 1 CONSTRUCTION
COMPLETE POND SEDIMENT EXCAVATION, INSTALL EMBANKMENT (EXCEPT AROUND LAKE DRAIN STRUCTURE), AND INSTALL LAKE DRAIN COFFERDAM. SEE TRAFFIC CONTROL STAGE 1A FOR MORE DETAILS.

STAGE 1 SPRINGVILLE POND WATER CONTROL
BYPASS WATER THROUGH EXISTING PRIMARY SPILLWAY STRUCTURE.



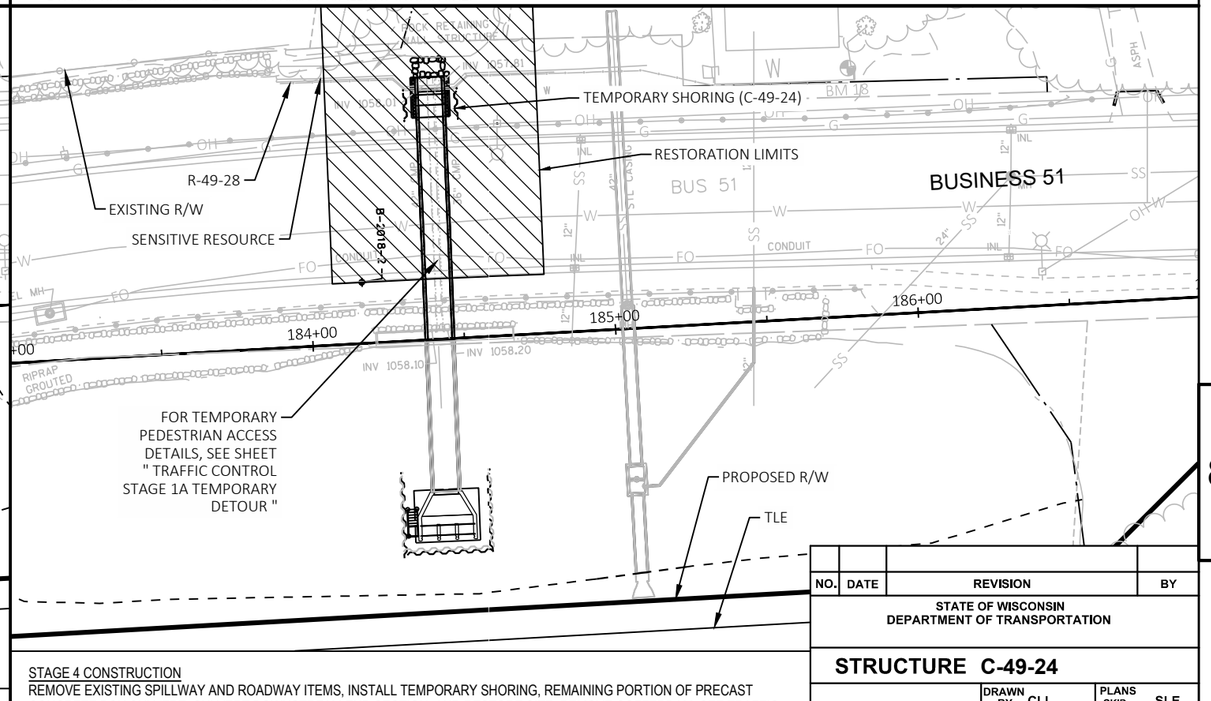
STAGE 2 CONSTRUCTION
INSTALL TEMPORARY SHORING AT BACK OF EXISTING CURB FOR LAKE DRAIN CONSTRUCTION. COMPLETE UV PIPE LINING, SLUICE GATE STRUCTURE, STORM SEWER WORK FOR LAKE DRAIN, AND PRIVATE SUPPLY LINE. INSTALL REMAINING EMBANKMENT AND REMOVE COFFERDAM AND TEMPORARY SHORING. SEE TRAFFIC CONTROL STAGE 1A FOR MORE DETAILS.

STAGE 2 SPRINGVILLE POND WATER CONTROL
BYPASS WATER THROUGH EXISTING PRIMARY SPILLWAY STRUCTURE.



STAGE 3 CONSTRUCTION
INSTALL PRIMARY SPILLWAY COFFERDAM, PRIMARY SPILLWAY STRUCTURE, AND APPROXIMATELY 40 FEET OF THE EASTERN PORTION OF PRECAST CONCRETE BOX CULVERT. SEE TRAFFIC CONTROL STAGE 1A FOR MORE DETAILS.

STAGE 3 SPRINGVILLE POND WATER CONTROL
BYPASS WATER THROUGH NEWLY CONSTRUCTED LAKE DRAIN.



STAGE 4 CONSTRUCTION
REMOVE EXISTING SPILLWAY AND ROADWAY ITEMS, INSTALL TEMPORARY SHORING, REMAINING PORTION OF PRECAST CONCRETE BOX CULVERT, CULVERT DOWNSTREAM END SECTION, AND RESTORE SITE. REMOVE COFFERDAM. SEE TRAFFIC CONTROL STAGE 1A TEMPORARY DETOUR FOR MORE DETAILS.

STAGE 4 SPRINGVILLE POND WATER CONTROL
BYPASS WATER THROUGH NEWLY CONSTRUCTED LAKE DRAIN.

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-49-24

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STAGING DETAILS

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STATE PROJECT NUMBER
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CAUTION, SENSITIVE AREA

R-49-28

REMOVE, SALVAGE, AND REINSTALL RETAINING WALL STONES
(SEE CULVERT DOWNSTREAM END SECTION DETAILS FOR LIMITS)

ROCK RETAINING WALL STRUCTURE

INV 1057.81

INV 1058.00

EXISTING R/W

PL

BM 18

SALVAGE RAIL

FENCE CHAIN LINK SALVAGED 4-FT

SAWING CONCRETE (TYP.)

REMOVING CURB & GUTTER (TYP)

REMOVING SMALL PIPE CULVERTS

SAWING ASPHALT (TYP.)

42" CMP

36" CMP

EXCAVATION FOR STRUCTURES CULVERTS (C-49-24)

60'

SAWING CONCRETE (TYP.)

PARTIALLY REMOVING VAULT STRUCTURE
(PRIVATE SUPPLY LINE), REMOVE UPPER 3 FEET ONLY

183+00

184+00

185+00

186+00

RIPRAP GROUTED

REMOVING PRIMARY SPILLWAY STRUCTURE

REMOVING SLUICE GATE STRUCTURE (LAKE DRAIN)

REMOVING STORM SEWER (6-INCH)

REMOVING DAM SIGN
(PAID AS MOVING SIGNS TYPE II)

REMOVING LANDMARK REFERENCE MONUMENTS
(PAID AS REMOVING PRIMARY SPILLWAY STRUCTURE)

REMOVING STORM SEWER (42-INCH)

REMOVING STORM SEWER (42-INCH)

REMOVING WATER LEVEL STAFF GAUGES

BUSINESS 51

BUS 51

TEL MH

CONDUIT

8

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-49-24

DRAWN BY CLL | PLANS CK'D. SLE

REMOVAL PLAN

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File: \\USGRB1FP001\04Projects\PROJECTS\60593566_Plover Springville Dam\900_CAD_GIS\910_CAD\6414-00-79 (Village of Plover)\SheetsOther\SheetsPlan\080112_cd.dwg Time: Oct 29, 2020 - 2:57pm

STATE PROJECT NUMBER
6414-00-79



SPRINGVILLE D□M LOO□ING □ EST



SPRINGVILLE D□M LOO□ING NORTH



SPRINGVILLE D□M LOO□ING NORTH ENL□RGED



SPRINGVILLE D□M LOO□ING NORTH ENL□RGED



SPRINGVILLE D□M SLUICE G□TE LOO□ING E□ST



SPRINGVILLE OUT□□LL LOO□ING E□ST

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-49-24

DRAWN BY CLL | PLANS CK'D. SLE

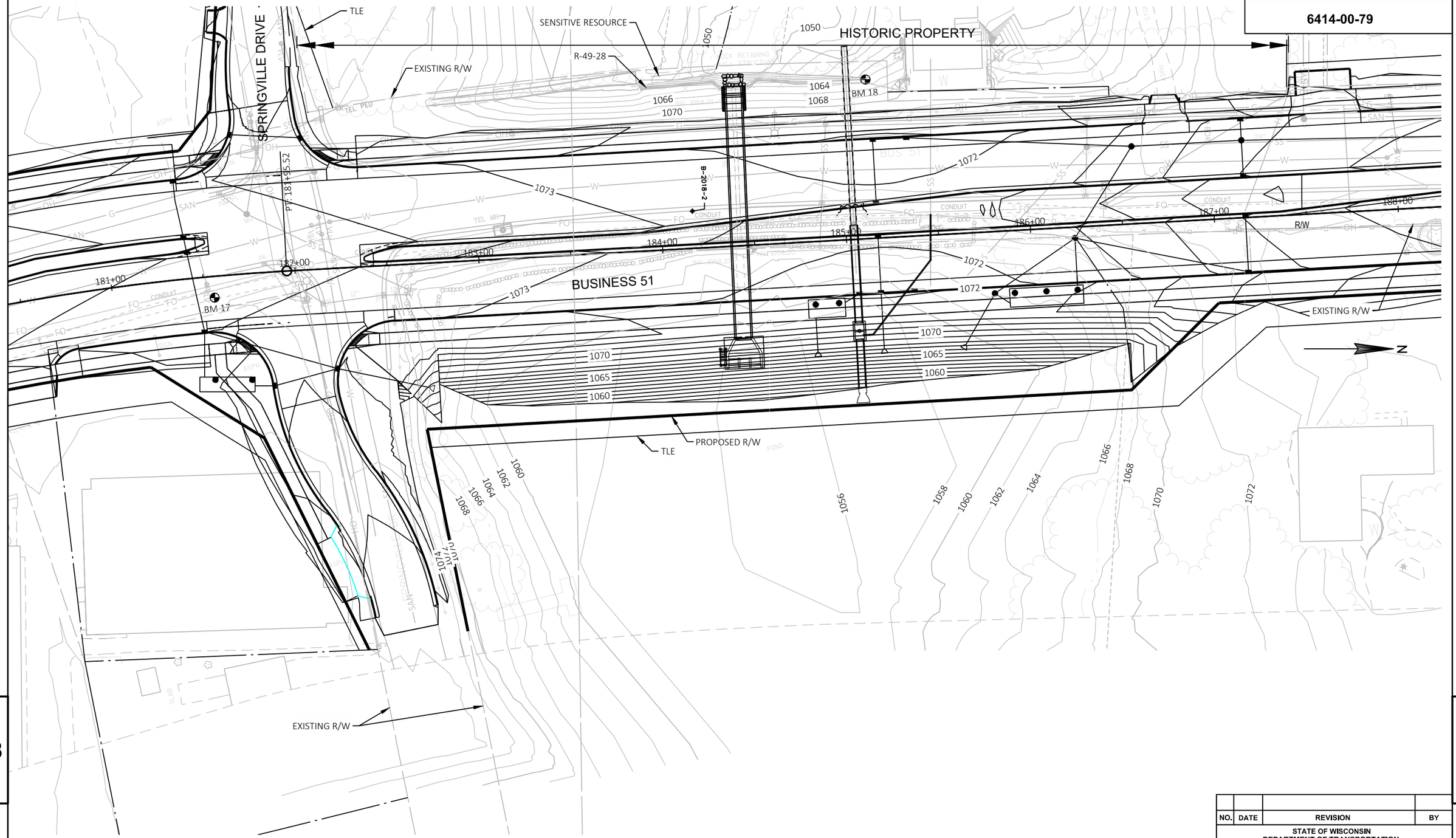
REMOVAL PHOTO DETAILS

SHEET 13 OF 17
297

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STATE PROJECT NUMBER

6414-00-79



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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-49-24

DRAWN BY CLL | PLANS CK'D. SLE

CONTOURS

SHEET 14 OF 17
298

File: K:\PROJECTS\60593566_Plover Springville Dam\900_CAD_GIS\910_CAD\6414-00-79 (Village of Plover)\SheetsOther\SheetsPlan\080114_cg.dwg Time: Aug 21, 2020 - 10:59am

STATE PROJECT NUMBER

6414-00-79

N

CAUTION, SENSITIVE AREA

R-49-28

RIPRAP HEAVY
(REPLENISH EXISTING RIPRAP AS DIRECTED BY THE FIELD ENGINEER)

TOPSOIL, PREPARING TOPSOIL FOR LAWN TYPE TURF, SEEDING MIXTURE NO. 40, FERTILIZER FOR LAWN TYPE TURF. EROSION MAT URBAN CLASS I TYPE A

RESTORE CONCRETE BARRIER TEMPORARY PRECAST PER TRAFFIC CONTROL STAGE 1A

STEEL PLATE BEAM GUARD TEMPORARY

ASPHALTIC CURB

4" ASPHALTIC SURFACE TEMPORARY OVER 8" BASE AGGREGATE DENSE 1 1/4-INCH

ASPHALTIC CURB

SPRINGVILLE DRIVE

TLE

EXISTING R/W

PT: 181+95.52

BM 17

BM 18

PL

BUSINESS 51

B-2018-2

182+00

183+00

184+00

185+00

186+00

187+00

PROPOSED R/W

TLE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-49-24

DRAWN BY CLL | PLANS CK'D. SLE

RESTORATION DETAILS

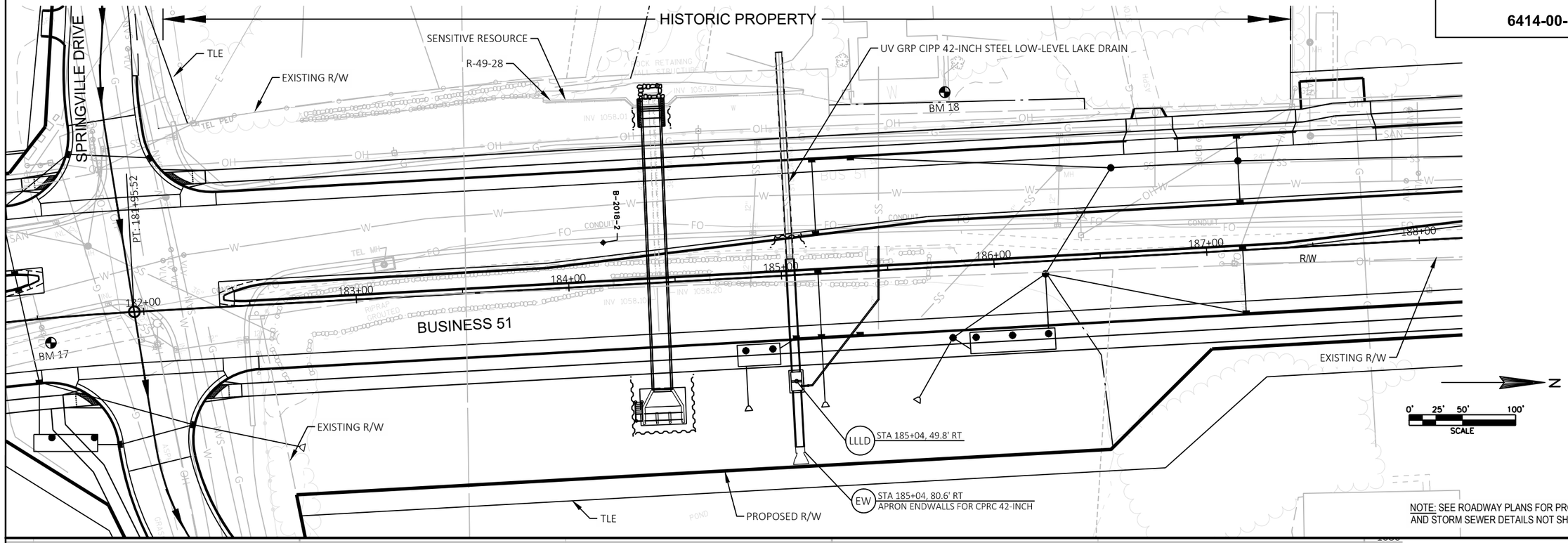
SHEET 15 OF 17
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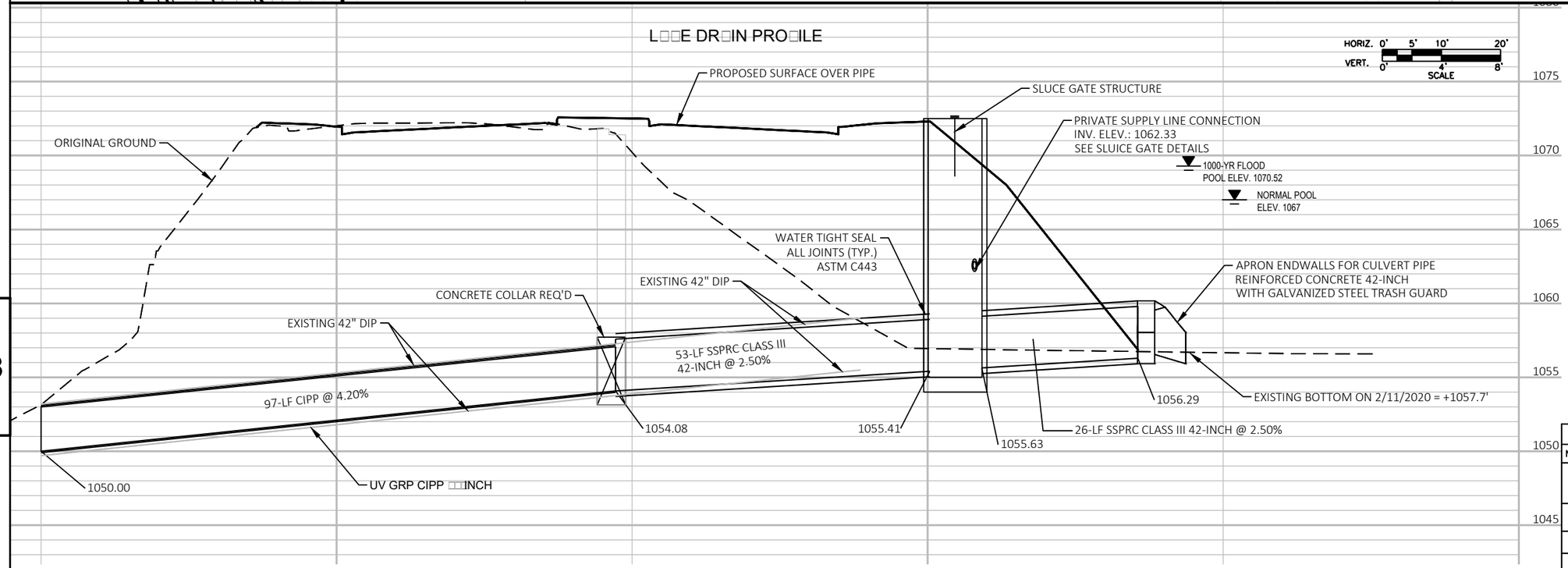
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File: \\USGRB1FP001\04Projects\PROJECTS\60593566_Plover Springville Dam\900_CAD_GIS\910_CAD\6414-00-79 (Village of Plover)\SheetsOther\SheetsPlan\080115_ec.DWG Time: Sep 01, 2020 - 10:16am

STATE PROJECT NUMBER
6414-00-79



NOTE: SEE ROADWAY PLANS FOR PROPOSED ROADWAY AND STORM SEWER DETAILS NOT SHOWN.



8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-49-24

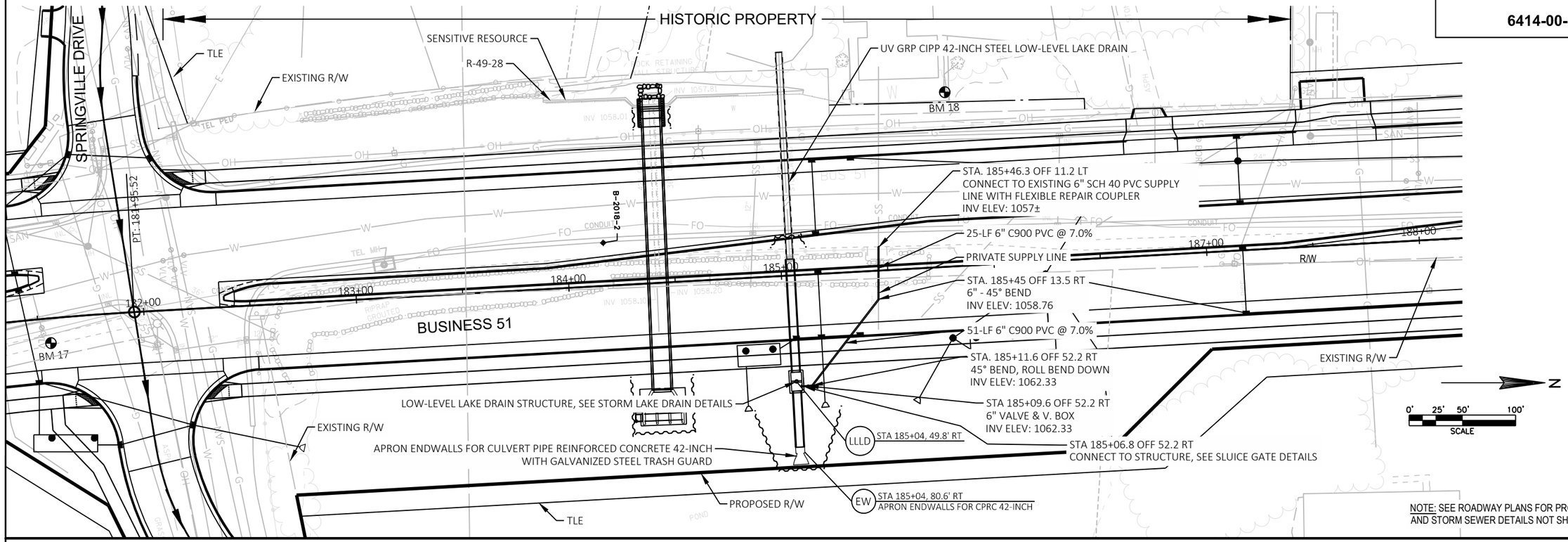
DRAWN BY CLL | PLANS CK'D. SLE

STORM LAKE DRAIN

SHEET 16 OF 17
300

STATE PROJECT NUMBER

6414-00-79



NOTE: SEE ROADWAY PLANS FOR PROPOSED ROADWAY AND STORM SEWER DETAILS NOT SHOWN.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-49-24

DRAWN BY CLL | PLANS CK'D. SLE

PRIVATE SUPPLY LINE DETAILS

SHEET 17 OF 17

301

File: K:\PROJECTS\60593566_Plover Springville Dam\900_CAD_GIS\910_CAD\6414-00-79 (Village of Plover)\SheetsOther\SheetsPlan\080117_pp.dwg Time: Oct 28, 2020 - 2:07pm

STAGE 1A - 179+00 - 191+15 & WIDENINGS 191+15 - 197+41 RT. AND WIDENING 205+50 - 210+43 RT.

EXP Fact= 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME FILL (CY)	CUMULATIVE VOLUME CUT (CY)	CUMULATIVE VOLUME FILL (CY)	MASS HAUL (CY)
179+00	43.0	0.0					
179+50	50.8	0.0	87	0	87	0	87
179+60	49.6	0.0	19	0	106	0	106
180+00	54.2	0.4	77	0	183	0	183
180+42	65.0	0.0	93	0	276	0	276
180+50	69.0	0.0	20	0	296	0	296
181+00	67.8	0.0	127	0	423	0	423
181+40	74.4	0.0	105	0	528	0	528
182+00	27.2	0.0	113	0	641	0	641
182+53	19.9	7.5	46	10	687	10	677
183+00	0.0	525.0	17	603	704	613	91
183+50	0.0	650.0	0	1414	704	2027	-1323
184+00	0.0	740.0	0	1673	704	3700	-2996
184+50	0.0	820.0	0	1878	704	5578	-4874
185+00	0.0	740.0	0	1878	704	7456	-6752
185+50	0.0	610.0	0	1625	704	9081	-8377
186+00	0.0	470.0	0	1300	704	10381	-9677
186+50	0.0	470.0	0	1131	704	11512	-10808
186+76	17.2	74.1	8	341	712	11853	-11141
187+00	38.6	25.0	25	57	737	11910	-11173
187+50	122.3	0.0	149	30	886	11940	-11054
187+63	123.7	0.0	59	0	945	11940	-10995
188+00	105.3	0.0	157	0	1102	11940	-10838
188+50	82.2	0.0	174	0	1276	11940	-10664
188+86	84.5	0.0	111	0	1387	11940	-10553
189+00	83.4	0.0	44	0	1431	11940	-10509
189+50	74.5	0.0	146	0	1577	11940	-10363
190+00	65.8	0.0	130	0	1707	11940	-10233
190+23	57.4	0.0	51	0	1758	11940	-10182
190+76	17.5	0.0	74	0	1832	11940	-10108
191+15	71.8	0.0	65	0	1897	11940	-10043
TEMPORARY WIDENING							
191+15	120.6	0.0					
191+50	95.6	0.0	140	0	2037	11940	-9903
191+93	75.1	0.0	136	0	2173	11940	-9767
192+00	77.4	0.0	20	0	2193	11940	-9747
192+50	47.1	0.0	115	0	2308	11940	-9632
193+00	44.7	0.0	85	0	2393	11940	-9547
193+50	47.8	0.0	86	0	2479	11940	-9461
194+00	47.2	0.0	88	0	2567	11940	-9373
194+50	44.3	0.0	85	0	2652	11940	-9288
194+50	44.3	0.0	0	0	2652	11940	-9288
194+74	43.8	0.0	39	0	2691	11940	-9249
195+00	42.4	0.0	41	0	2732	11940	-9208
195+50	34.9	0.0	72	0	2804	11940	-9136
195+54	34.0	0.0	5	0	2809	11940	-9131
196+00	18.6	0.0	45	0	2854	11940	-9086
196+50	15.0	0.0	31	0	2885	11940	-9055
197+00	9.2	0.0	22	0	2907	11940	-9033
197+41	8.1	0.0	13	0	2920	11940	-9020
TEMPORARY WIDENING							
205+50	0.4	0.0					
206+00	10.9	0.0	10	0	2930	11940	-9010
206+50	14.5	0.5	24	1	2954	11941	-8987
207+00	23.0	0.0	35	1	2989	11942	-8953
207+50	27.7	0.0	47	0	3036	11942	-8906
208+00	14.3	0.0	39	0	3075	11942	-8867
208+50	18.9	0.0	31	0	3106	11942	-8836
209+00	19.3	0.0	35	0	3141	11942	-8801
209+50	16.1	2.3	33	3	3174	11945	-8771
210+00	11.8	0.7	26	4	3200	11949	-8749
210+43	0.0	0.0	9	1	3209	11950	-8741

STAGE 1A RAINBOW DRIVE

EXP Fact= 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME FILL (CY)	CUMULATIVE VOLUME CUT (CY)	CUMULATIVE VOLUME FILL (CY)	MASS HAUL (CY)
60+28	159.1						
60+59	56.7	0.8	124	1	124	1	123
61+00	43.1		76	1	200	2	198
61+32	31.6		45	0	245	2	243

STAGE 1A SPRINGVILLE DRIVE WEST

EXP Fact= 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME FILL (CY)	CUMULATIVE VOLUME CUT (CY)	CUMULATIVE VOLUME FILL (CY)	MASS HAUL (CY)
55+28	136.1	0.0					
55+72	87.2	21.1	182	22	182	22	160
56+00	108.8	18.9	102	27	284	49	235
56+50	78.8	2.1	174	25	458	74	384
56+62	73.0	2.2	34	1	492	75	417
57+00	45.6	0.0	83	2	575	77	498
57+09	45.0	0.0	15	0	590	77	513

STAGE 1A PATTON DRIVE INFILTRATION PONDS

EXP Fact= 1.0

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME FILL (CY)	CUMULATIVE VOLUME CUT (CY)	CUMULATIVE VOLUME FILL (CY)	MASS HAUL (CY)
0+12	0.0						
0+19	326.0		42	0	42	0	42
0+50	1565.0		1086	0	1128	0	1128
0+75	1680.0		1502	0	2630	0	2630
0+96	1642.0		1292	0	3922	0	3922
1+19	1492.0		1306	0	5228	0	5228
1+36	1338.0		917	0	6145	0	6145
1+50	883.0		576	0	6721	0	6721
1+65	373.0		349	0	7070	0	7070
1+83	218.0		193	0	7263	0	7263
2+00	486.0		226	0	7489	0	7489
2+11	580.0		221	0	7710	0	7710
2+26	570.0		307	0	8017	0	8017
2+50	465.0		468	0	8485	0	8485
2+75	363.0		383	0	8868	0	8868
3+00	318.0		315	0	9183	0	9183
3+25	254.0		265	0	9448	0	9448
3+50	119.0		173	0	9621	0	9621
3+61	0.0		24	0	9645	0	9645

STAGE 2 Bus 51 EXP Fact= 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME FILL (CY)	CUMULATIVE VOLUME CUT (CY)	CUMULATIVE VOLUME FILL (CY)	MASS HAUL (CY)
178+07	46.3	0.0					
178+50	47.9	0.0	74	0	74	0	74
179+00	68.7	0.0	108	0	182	0	182
179+50	52.1	0.0	112	0	294	0	294
179+60	67.4	0.0	22	0	316	0	316
180+00	37.6	6.6	78	6	394	6	388
180+42	59.9	0.4	76	7	470	13	457
180+50	62.3	0.0	18	0	488	13	475
181+00	71.5	0.0	124	0	612	13	599
181+40	59.4	0.0	98	0	710	13	697
182+00	65.8	0.0	138	0	848	13	835
182+53	69.4	0.0	132	0	980	13	967
183+00	56.7	0.9	110	1	1090	14	1076
183+50	52.6	0.7	101	2	1191	16	1175
184+00	48.7	0.7	94	2	1285	18	1267
184+50	45.2	2.1	87	3	1372	21	1351
185+00	52.6	0.9	91	4	1463	25	1438
185+50	60.3	0.0	105	1	1568	26	1542
186+00	62.7	0.6	114	1	1682	27	1655
186+50	64.9	1.1	118	2	1800	29	1771
186+76	67.7	0.0	64	1	1864	30	1834
187+00	49.3	0.4	52	0	1916	30	1886
187+50	58.1	0.0	99	1	2015	31	1984
187+63	57.2	0.0	28	0	2043	31	2012
188+00	50.5	0.0	74	0	2117	31	2086
188+50	58.2	0.0	101	0	2218	31	2187
188+86	70.3	0.0	86	0	2304	31	2273
189+00	69.3	0.0	36	0	2340	31	2309
189+50	56.8	0.0	117	0	2457	31	2426
190+00	55.8	0.0	104	0	2561	31	2530
190+23	50.8	0.0	44	0	2605	31	2574
190+76	49.5	0.0	99	0	2704	31	2673
191+15	31.0	2.1	58	2	2762	33	2729
191+50	29.2	2.1	40	4	2802	37	2765
192+00	46.8	0.0	70	3	2872	40	2832
192+50	58.6	0.0	98	0	2970	40	2930
193+03	76.5	0.0	132	0	3102	40	3062
193+20	83.1	0.0	51	0	3153	40	3113
193+55	67.5	0.0	98	0	3251	40	3211
194+00	83.3	0.0	126	0	3377	40	3337
194+50	74.9	0.0	146	0	3523	40	3483
194+87	81.3	0.0	107	0	3630	40	3590
195+00	84.0	0.0	40	0	3670	40	3630
195+26	66.0	0.8	72	1	3742	41	3701
195+50	69.1	2.5	60	2	3802	43	3759
196+00	65.6	0.1	125	3	3927	46	3881
196+37	72.7	0.0	95	0	4022	46	3976
196+50	66.9	0.0	34	0	4056	46	4010
196+89	84.0	0.0	109	0	4165	46	4119
197+50	61.8	0.0	165	0	4330	46	4284
197+91	65.2	0.0	96	0	4426	46	4380
198+00	66.3	0.0	22	0	4448	46	4402
198+16	99.8	0.0	49	0	4497	46	4451
198+50	68.3	0.0	106	0	4603	46	4557
199+00	64.5	0.0	123	0	4726	46	4680
199+50	94.0	0.0	147	0	4873	46	4827
199+81	71.8	0.0	95	0	4968	46	4922
200+50	107.7	0.0	230	0	5198	46	5152
201+00	99.1	0.0	191	0	5389	46	5343
201+50	76.7	0.0	163	0	5552	46	5506
202+00	106.3	0.0	169	0	5721	46	5675
202+50	35.3	3.6	131	4	5852	50	5802
203+00	53.9	0.0	83	4	5935	54	5881
203+40	105.5	0.0	117	0	6052	54	5998
204+00	71.9	0.0	198	0	6250	54	6196
204+62	79.6	0.0	174	0	6424	54	6370

STAGE 2 Bus 51 (CONT'D) EXP Fact= 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME FILL (CY)	CUMULATIVE VOLUME CUT (CY)	CUMULATIVE VOLUME FILL (CY)	MASS HAUL (CY)
205+00	86.0	0.0	117	0	6541	54	6487
205+38	98.8	0.0	130	0	6671	54	6617
205+78	84.7	0.0	136	0	6807	54	6753
206+40	84.7	0.0	194	0	7001	54	6947
206+55	82.5	0.0	46	0	7047	54	6993
207+00	80.7	0.0	136	0	7183	54	7129
207+50	93.7	0.0	161	0	7344	54	7290
207+85	149.3	0.0	159	0	7503	54	7449
208+43	53.0	0.0	216	0	7719	54	7665
209+00	55.7	3.9	115	5	7834	59	7775
209+50	40.3	12.9	89	20	7923	79	7844
209+75	40.3	13.9	37	16	7960	95	7865
210+00	41.7	9.3	38	14	7998	109	7889
210+21	53.9	0.2	37	5	8035	114	7921
210+50	58.9	0.0	61	0	8096	114	7982
210+84	52.8	0.0	70	0	8166	114	8052
211+00	43.1	0.0	28	0	8194	114	8080
211+79	49.6	0.0	136	0	8330	114	8216
212+00	49.5	0.0	39	0	8369	114	8255
212+50	44.5	0.0	87	0	8456	114	8342
213+00	69.4	0.0	105	0	8561	114	8447
213+30	72.3	0.0	80	0	8641	114	8527
213+75	59.8	0.0	109	0	8750	114	8636
214+00	59.0	0.0	55	0	8805	114	8691
214+08	58.0	0.0	18	0	8823	114	8709
214+48	43.1	0.0	74	0	8897	114	8783

STAGE 2 SPRINGVILLE DRIVE WEST EXP Fact= 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME FILL (CY)	CUMULATIVE VOLUME CUT (CY)	CUMULATIVE VOLUME FILL (CY)	MASS HAUL (CY)
53+00	36.9	0.0					
53+50	47.3	1.3	78	2	78	2	76
53+65	65.5	0.0	31	0	109	2	107
54+00	88.3	0.0	100	0	209	2	207
54+48	176.0	0.0	235	0	444	2	442

STAGE 2 PATTON DRIVE EXP Fact= 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME FILL (CY)	CUMULATIVE VOLUME CUT (CY)	CUMULATIVE VOLUME FILL (CY)	MASS HAUL (CY)
65+45	58.0	0.0					
65+50	59.3	1.9	11	0	11	0	11
66+00	87.0	0.0	135	2	146	2	144
66+50	131.9	0.0	203	0	349	2	347
67+00	146.7	0.0	258	0	607	2	605
67+40	270.0	0.0	309	0	916	2	914
67+58	223.7	0.3	165	0	1081	2	1079
67+80	230.9	0.0	185	0	1266	2	1264
68+00	232.1	0.0	171	0	1437	2	1435
68+50	235.2	2.9	433	4	1870	6	1864
69+00	293.0	1.5	489	5	2359	11	2348
69+48	334.7	0.0	558	2	2917	13	2904

STAGE 2 MACARTHUR WAY EXP Fact= 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME FILL (CY)	CUMULATIVE VOLUME CUT (CY)	CUMULATIVE VOLUME FILL (CY)	MASS HAUL (CY)
72+91	38.7	0.0					
73+00	38.7	0.0	13	0	13	0	13
73+25	62.5	1.5	47	1	60	1	59
73+66	83.0	0.0	110	1	170	2	168
74+00	83.0	0.0	105	0	275	2	273
74+48	273.2	0.0	317	0	592	2	590

STAGE 3 Bus 51 EXP Fact= 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME FILL (CY)	CUMULATIVE VOLUME CUT (CY)	CUMULATIVE VOLUME FILL (CY)	MASS HAUL (CY)
191+15	15.9	2.5	5610	1160	5610	1160	4450
191+50	19.7	7.1	25	10	5635	1170	4465
192+00	38.0	0.1	55	10	5690	1180	4510
192+50	63.0	0.0	95	0	5785	1180	4605
193+03	89.1	0.0	150	0	5935	1180	4755
193+20	90.3	0.0	55	0	5990	1180	4810
193+55	76.1	0.0	110	0	6100	1180	4920
194+00	78.7	0.0	130	0	6230	1180	5050
194+50	83.5	0.0	150	0	6380	1180	5200
194+87	80.0	0.0	110	0	6490	1180	5310
195+00	66.2	0.6	35	0	6525	1180	5345
195+26	85.2	0.0	75	0	6600	1180	5420
195+50	65.1	0.0	65	0	6665	1180	5485
196+00	63.1	0.0	120	0	6785	1180	5605
196+37	74.1	0.0	95	0	6880	1180	5700
196+50	62.0	0.0	35	0	6915	1180	5735
196+89	60.3	0.0	90	0	7005	1180	5825
197+50	53.8	0.0	130	0	7135	1180	5955
197+91	72.4	0.0	95	0	7230	1180	6050
198+00	70.9	0.0	25	0	7255	1180	6075
198+16	55.9	0.0	40	0	7295	1180	6115
198+50	54.4	0.0	70	0	7365	1180	6185
199+00	57.0	0.0	105	0	7470	1180	6290
199+50	61.2	0.0	110	0	7580	1180	6400
199+81	64.0	0.0	70	0	7650	1180	6470
200+50	45.8	0.0	140	0	7790	1180	6610
201+00	63.1	0.0	100	0	7890	1180	6710
201+50	61.4	0.0	115	0	8005	1180	6825
202+00	59.7	0.0	110	0	8115	1180	6935
202+50	58.3	0.0	110	0	8225	1180	7045
203+00	57.3	0.0	105	0	8330	1180	7150
203+40	57.4	0.0	85	0	8415	1180	7235
204+00	77.1	0.0	150	0	8565	1180	7385
204+62	66.5	0.0	165	0	8730	1180	7550
205+00	66.9	0.0	95	0	8825	1180	7645
205+38	83.4	0.0	105	0	8930	1180	7750
205+78	58.4	0.0	105	0	9035	1180	7855
206+40	46.0	0.8	120	0	9155	1180	7975
206+55	45.9	1.2	25	0	9180	1180	8000
207+00	68.2	0.0	95	0	9275	1180	8095
207+50	68.3	0.0	125	0	9400	1180	8220
207+85	70.6	0.0	90	0	9490	1180	8310
208+43	106.0	0.0	190	0	9680	1180	8500
209+00	60.3	0.0	175	0	9855	1180	8675
209+50	51.3	0.0	105	0	9960	1180	8780
209+75	59.4	0.0	50	0	10010	1180	8830
210+00	45.5	4.2	50	0	10060	1180	8880
210+21	59.7	0.0	40	0	10100	1180	8920
210+50	48.8	0.0	60	0	10160	1180	8980
210+84	48.6	0.0	60	0	10220	1180	9040
211+00	48.6	0.0	30	0	10250	1180	9070
211+79	15.4	0.0	95	0	10345	1180	9165
212+00	2.2	0.2	5	0	10350	1180	9170
212+50	1.2	1.1	5	0	10355	1180	9175
212+71	1.2	1.1	0	0	10355	1180	9175

STAGE 3 ROBERTS ROAD EXP Fact= 1.3

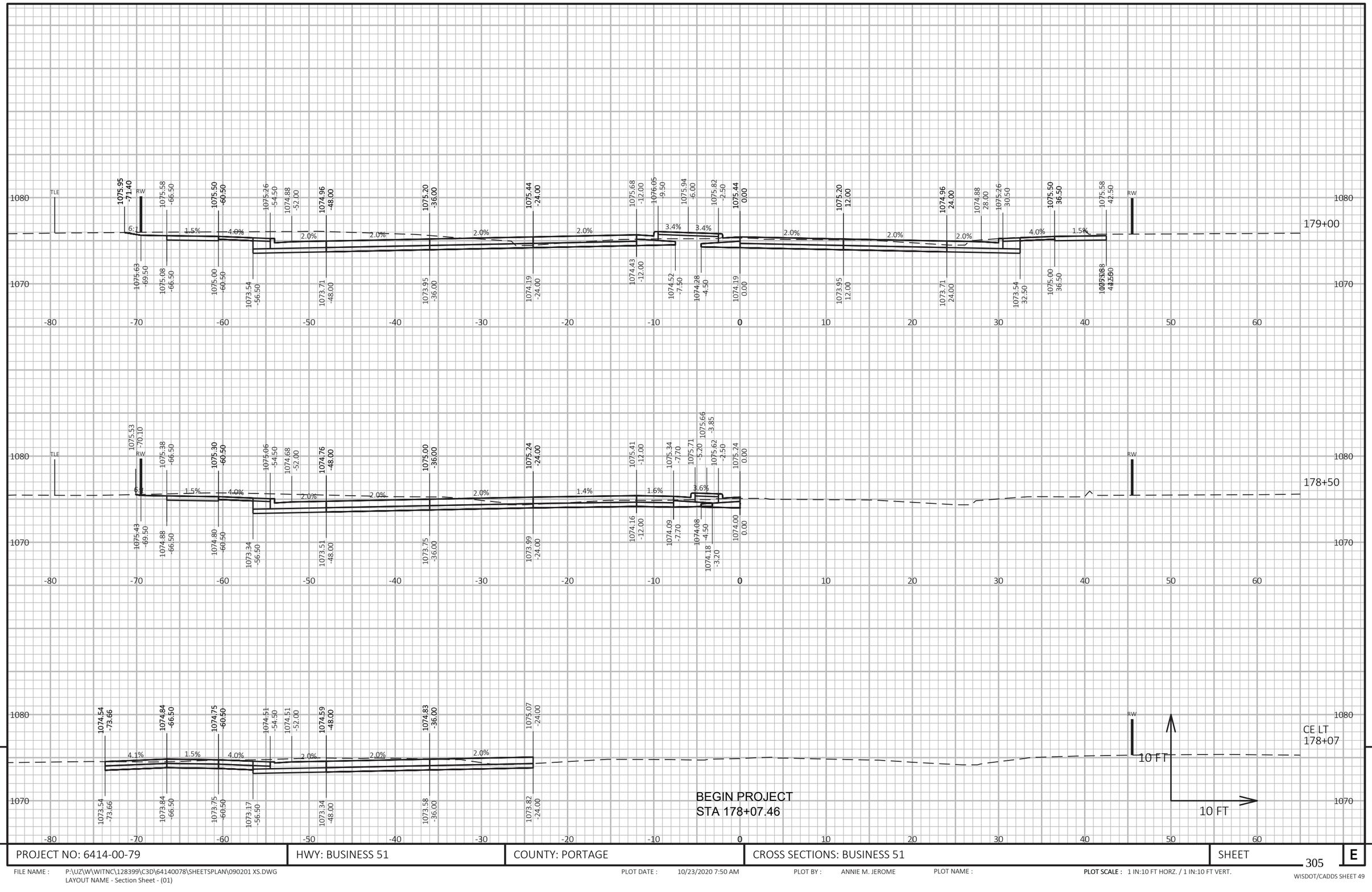
STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME FILL (CY)	CUMULATIVE VOLUME CUT (CY)	CUMULATIVE VOLUME FILL (CY)	MASS HAUL (CY)
62+28	167.4	0.0					
62+60	102.6	0.0	160	0	160	0	160
63+00	75.4	0.0	132	0	292	0	292
63+45	42.9	0.0	99	0	391	0	391

STAGE 4 BUS 51 EXP Fact= 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME FILL (CY)	CUMULATIVE VOLUME CUT (CY)	CUMULATIVE VOLUME FILL (CY)	MASS HAUL (CY)
178+07	9.5	0.0					
178+50	29.2	0.0	30	0	30	0	30
179+00	17.3	0.0	43	0	73	0	73
179+50	14.4	0.0	29	0	102	0	102
179+60	15.5	0.0	6	0	108	0	108
180+00	15.6	0.0	23	0	131	0	131
180+42	12.9	0.0	22	0	153	0	153
180+50	12.8	0.0	4	0	157	0	157
181+00	12.0	0.0	23	0	180	0	180
181+40	13.5	0.0	19	0	199	0	199
182+00	0.0	0.0	15	0	214	0	214
182+53	18.8	15.5	18	20	232	20	212
183+00	16.7	4.6	31	23	263	43	220
183+50	12.1	6.6	27	14	290	57	233
184+00	12.4	7.5	23	17	313	74	239
184+50	11.0	11.5	22	23	335	97	238
185+00	8.1	10.5	18	26	353	123	230
185+50	5.0	8.2	12	23	365	146	219
186+00	17.0	3.0	20	13	385	159	226
186+50	17.0	1.2	31	5	416	164	252
186+76	15.2	2.6	15	2	431	166	265
187+00	12.7	4.5	12	4	443	170	273
187+50	12.2	4.3	23	11	466	181	285
187+63	13.2	4.6	6	3	472	184	288
188+00	16.6	4.4	20	8	492	192	300
188+50	20.2	2.7	34	9	526	201	325
188+86	25.9	9.1	31	10	557	211	346
189+00	25.5	7.9	13	6	570	217	353
189+50	23.2	6.7	45	18	615	235	380
190+00	17.8	6.7	38	16	653	251	402
190+23	17.5	6.7	15	7	668	258	410
190+76	11.4	0.0	29	9	697	267	430
191+15	5.9	6.7	12	6	709	273	436
191+50	8.7	6.7	10	11	719	284	435
192+00	13.9	6.7	21	16	740	300	440
192+50	22.7	6.7	34	16	774	316	458
193+03	31.6	0.0	53	9	827	325	502
193+20	33.7	0.0	21	0	848	325	523
193+55	35.0	0.0	45	0	893	325	568
194+00	36.0	0.0	59	0	952	325	627
194+50	38.2	0.0	69	0	1021	325	696
194+87	34.3	0.0	50	0	1071	325	746
195+00	33.8	0.0	16	0	1087	325	762
195+26	32.0	0.9	32	1	1119	326	793
195+50	31.3	2.1	28	2	1147	328	819
196+00	25.9	2.1	53	5	1200	333	867
196+37	26.0	0.6	36	2	1236	335	901
196+50	28.3	0.0	13	0	1249	335	914
196+89	60.3	0.0	64	0	1313	335	978
197+50	53.8	0.8	129	1	1442	336	1106
197+91	72.4	0.0	96	1	1538	337	1201
198+00	23.0	3.0	16	1	1554	338	1216
198+16	21.8	4.7	13	3	1567	341	1226
198+50	25.5	4.0	30	7	1597	348	1249
199+00	28.6	0.0	50	5	1647	353	1294
199+50	30.5	0.0	55	0	1702	353	1349
199+81	29.0	0.0	34	0	1736	353	1383
200+50	30.5	0.0	76	0	1812	353	1459
201+00	30.8	1.9	57	2	1869	355	1514
201+50	26.7	2.8	53	6	1922	361	1561
202+00	23.6	4.2	47	8	1969	369	1600
202+50	20.2	4.0	41	10	2010	379	1631
203+00	18.4	3.5	36	9	2046	388	1658
203+40	23.1	1.5	31	5	2077	393	1684
204+00	27.8	0.0	57	2	2134	395	1739
204+62	29.5	2.4	66	4	2200	399	1801

STAGE 4 BUS 51 CONT'D) EXP Fact= 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	VOLUME CUT (CY)	VOLUME FILL (CY)	CUMULATIVE VOLUME CUT (CY)	CUMULATIVE VOLUME FILL (CY)	MASS HAUL (CY)
205+00	28.8	1.4	41	3	2241	402	1839
205+38	25.4	2.7	38	4	2279	406	1873
205+78	22.1	2.4	35	5	2314	411	1903
206+40	19.6	0.0	48	4	2362	415	1947
206+55	18.9	2.5	11	1	2373	416	1957
207+00	21.0	1.0	33	4	2406	420	1986
207+50	30.3	0.0	47	1	2453	421	2032
207+85	33.0	0.0	41	0	2494	421	2073
208+43	31.3	0.0	69	0	2563	421	2142
209+00	26.6	2.6	61	3	2624	424	2200
209+50	23.3	1.8	46	5	2670	429	2241
209+75	22.2	2.1	21	2	2691	431	2260
210+00	21.0	2.4	20	3	2711	434	2277
210+21	20.2	3.3	16	3	2727	437	2290
210+50	10.5	3.6	17	5	2744	442	2302
210+84	17.3	5.5	18	7	2762	449	2313
211+00	27.5	5.9	13	4	2775	453	2322
211+79	23.2	4.9	74	21	2849	474	2375
212+00	19.7	6.0	17	6	2866	480	2386
212+50	30.5	3.5	46	11	2912	491	2421
213+00	40.2	3.4	66	8	2978	499	2479
213+30	47.7	1.7	49	4	3027	503	2524
213+75	55.0	0.0	85	2	3112	505	2607
214+00	55.9	0.0	51	0	3163	505	2658
214+08	55.6	0.0	17	0	3180	505	2675
214+38	30.0	0.0	47	0	3227	505	2722



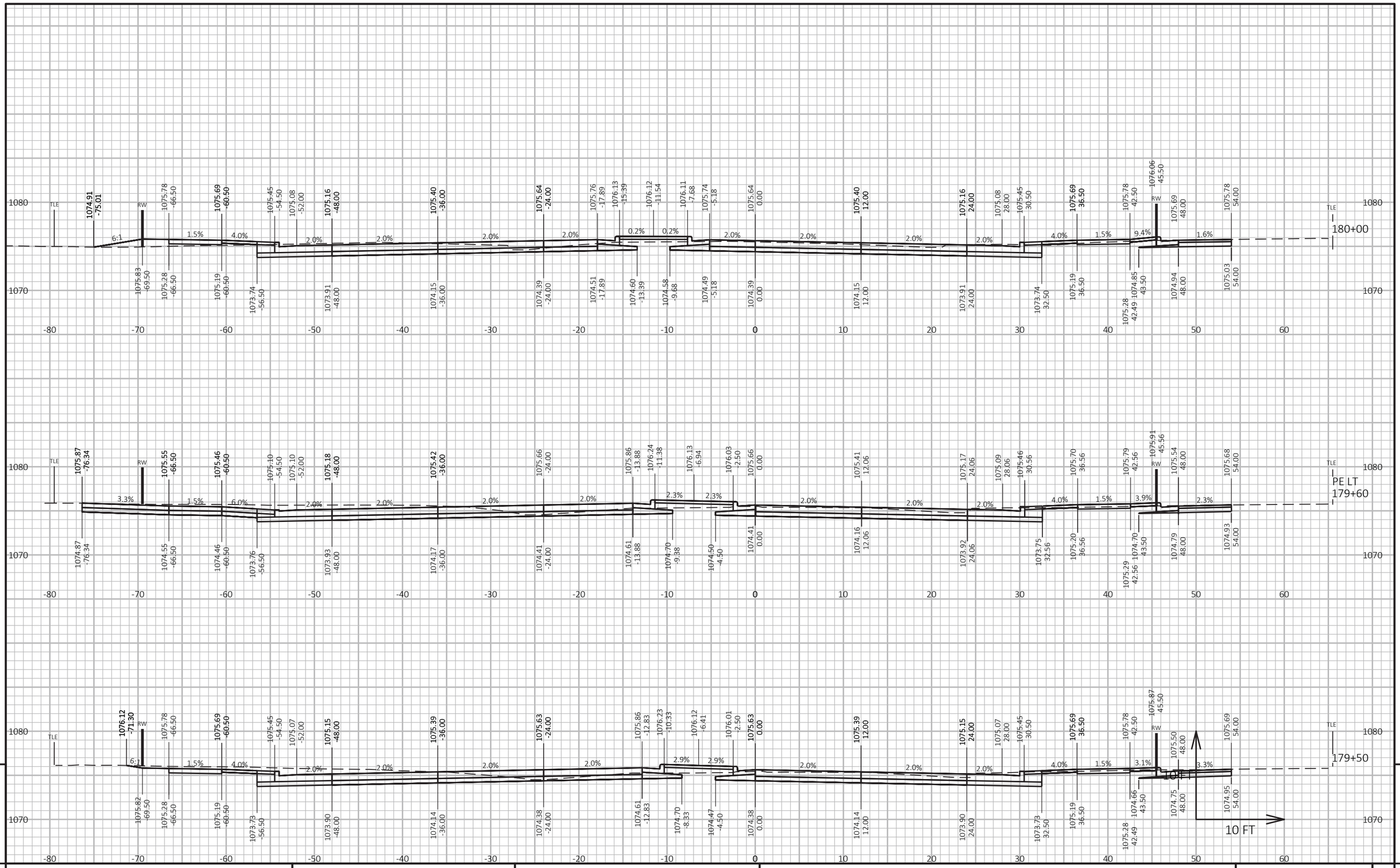
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PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 305	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (01)

PLOT DATE : 10/23/2020 7:50 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 306	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (02)

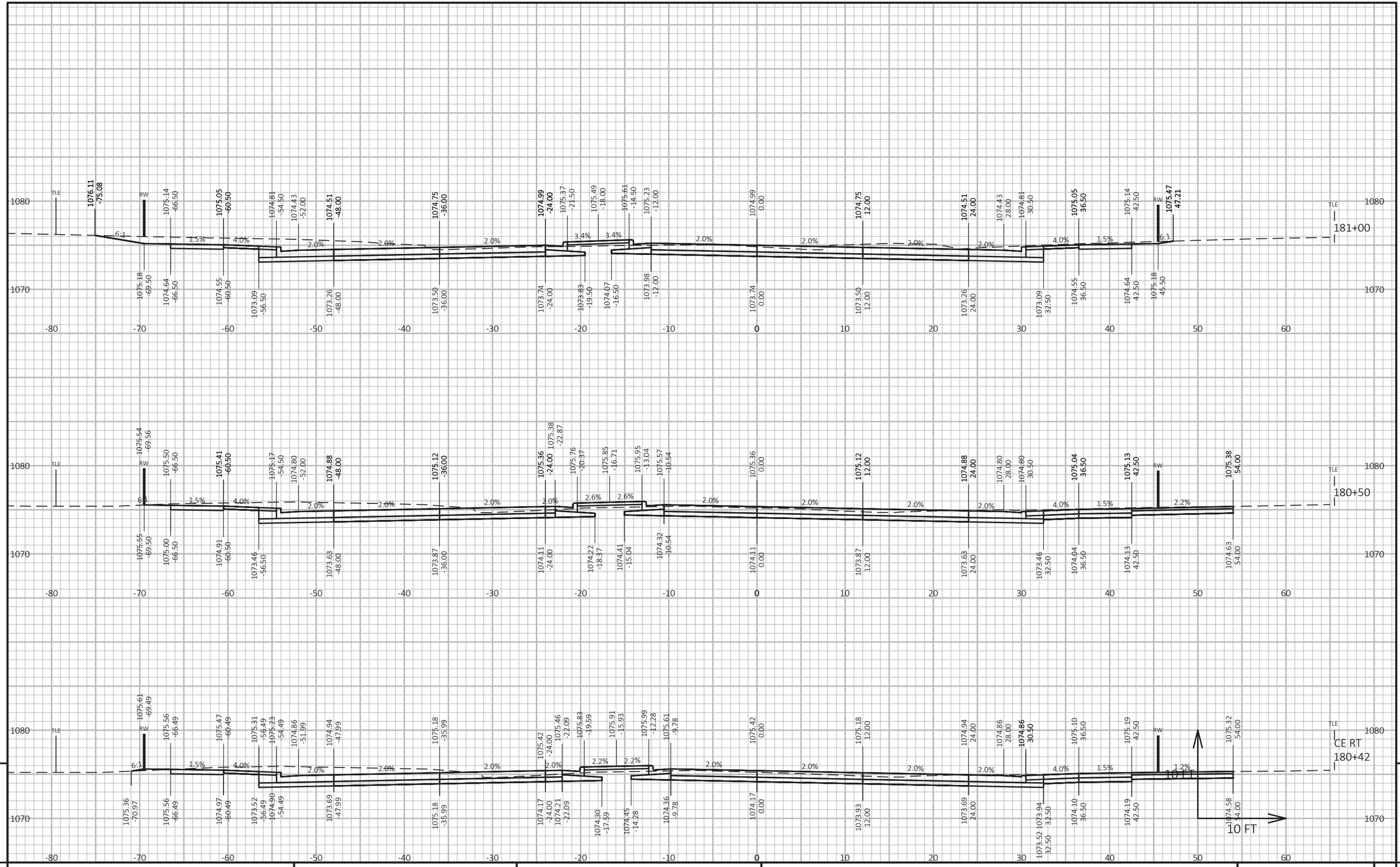
PLOT DATE : 10/23/2020 7:50 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 307 E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
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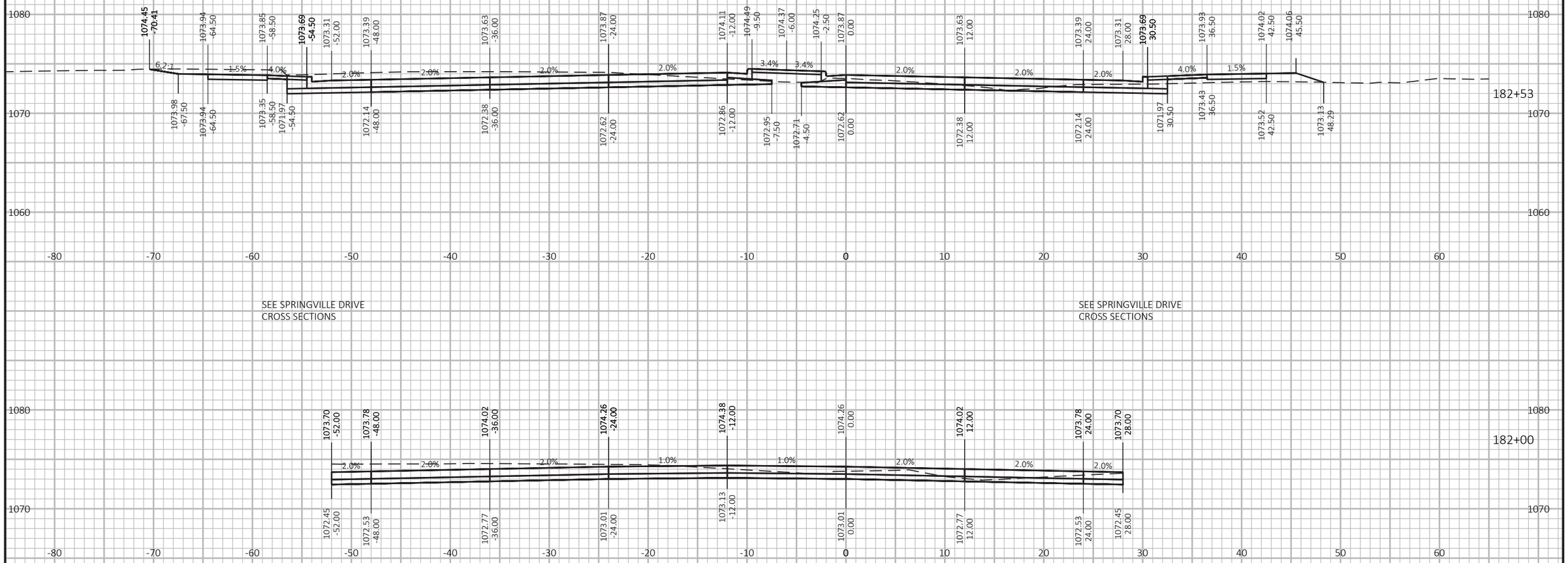
PLOT DATE : 10/23/2020 7:50 AM

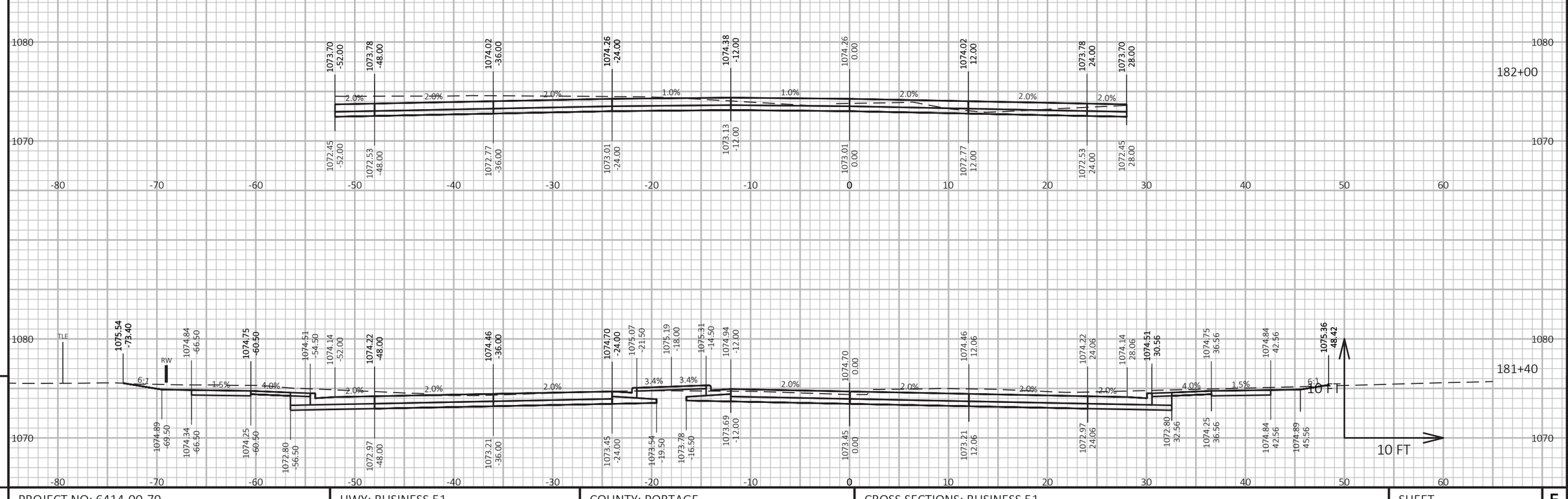
PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 308	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (04)

PLOT DATE : 10/23/2020 7:51 AM

PLOT BY : ANNIE M. JEROME

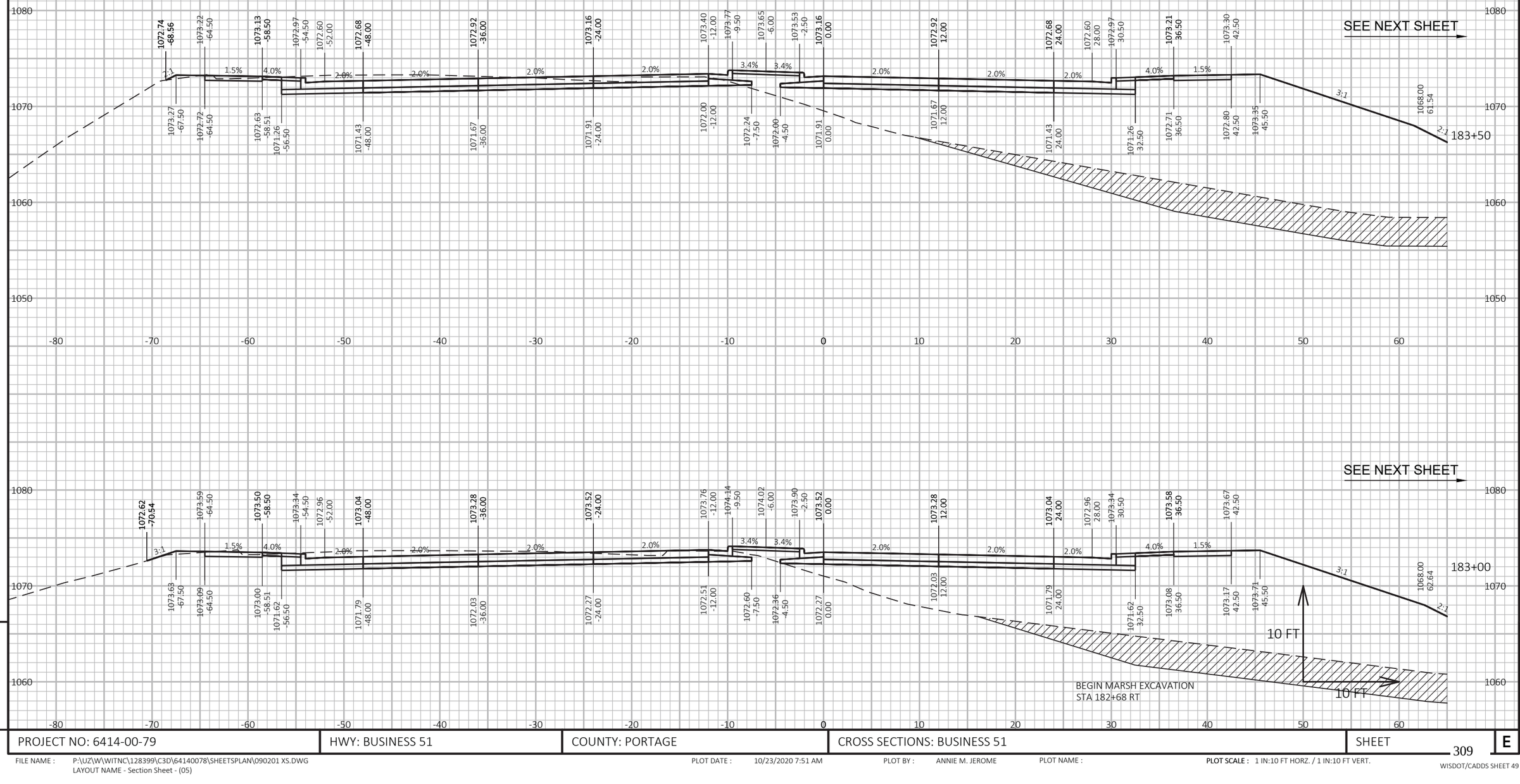
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

LEGEND

ESTIMATED MARSH EXCAVATION LIMITS



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 309	E

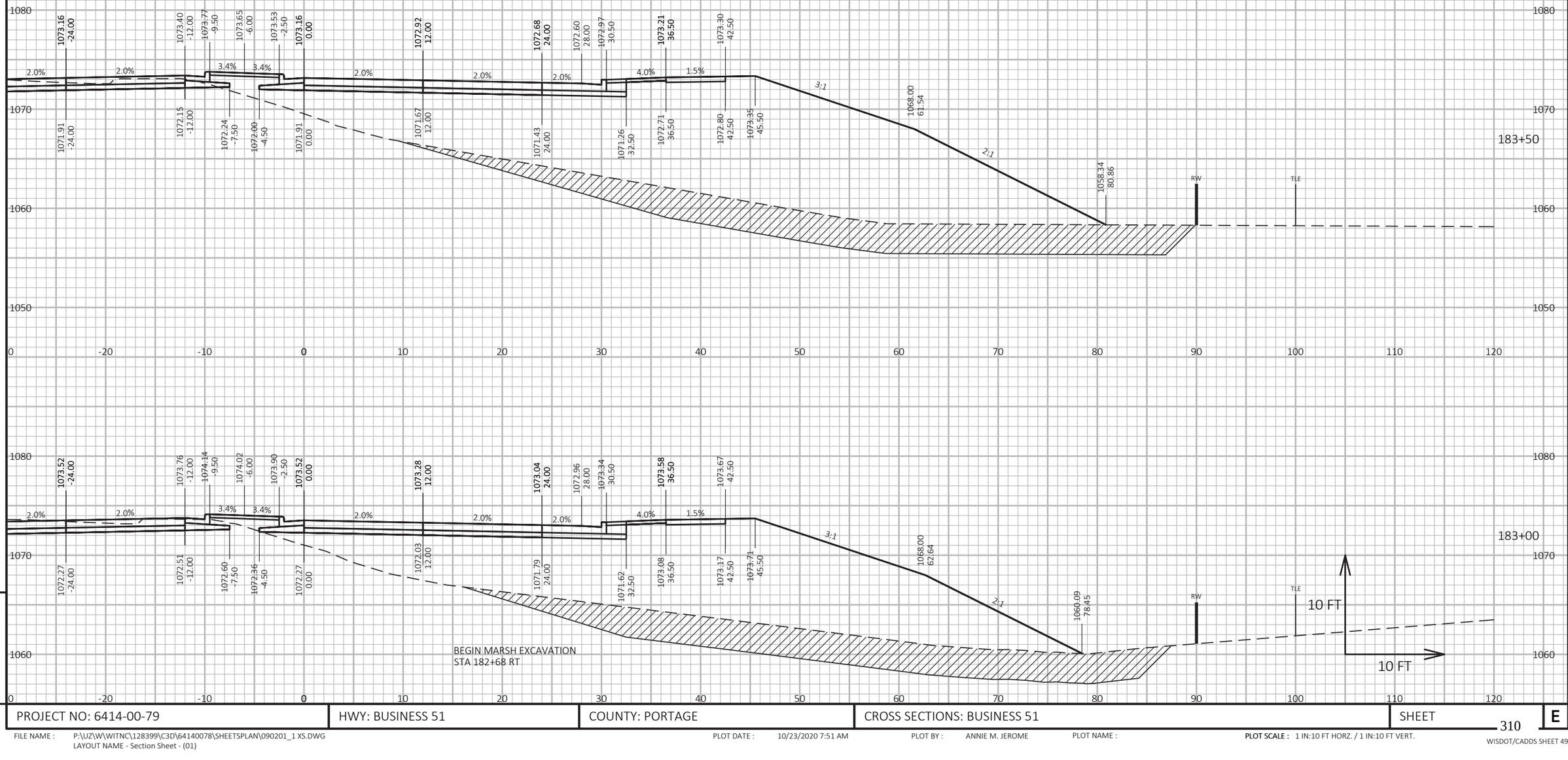
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LAYOUT NAME - Section Sheet - (05)

PLOT DATE : 10/23/2020 7:51 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

LEGEND

ESTIMATED MARSH EXCAVATION LIMITS



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 310	E

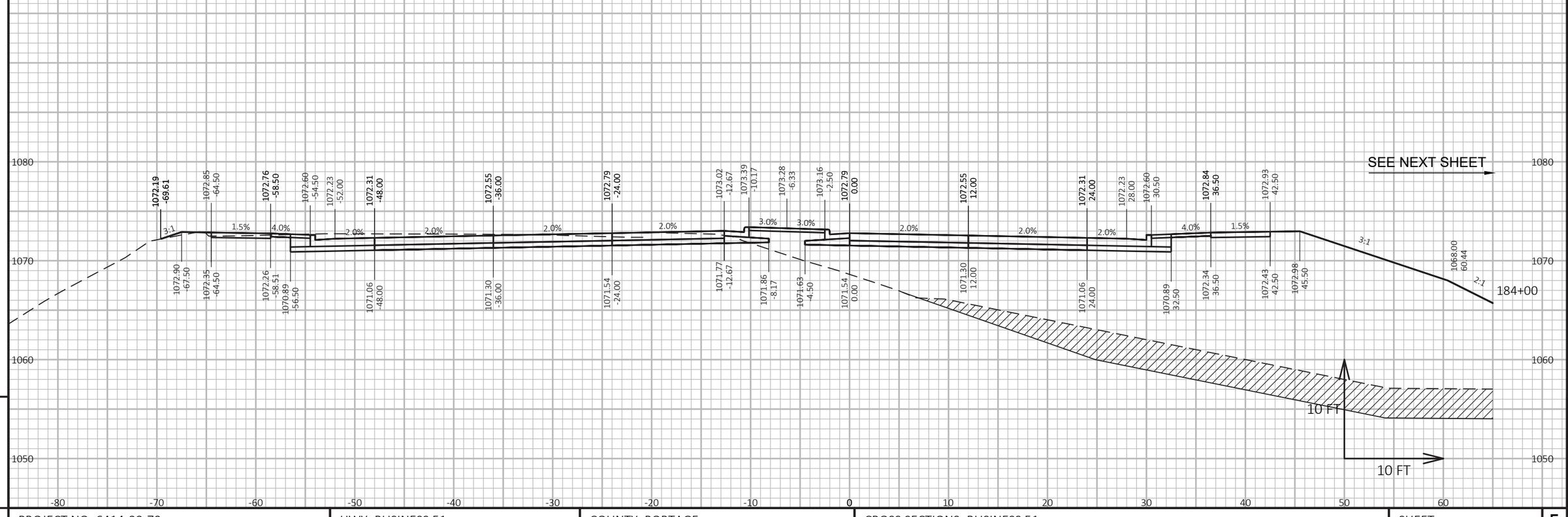
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LAYOUT NAME - Section Sheet - (01)

PLOT DATE : 10/23/2020 7:51 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

LEGEND

ESTIMATED MARSH EXCAVATION LIMITS



9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 311	E

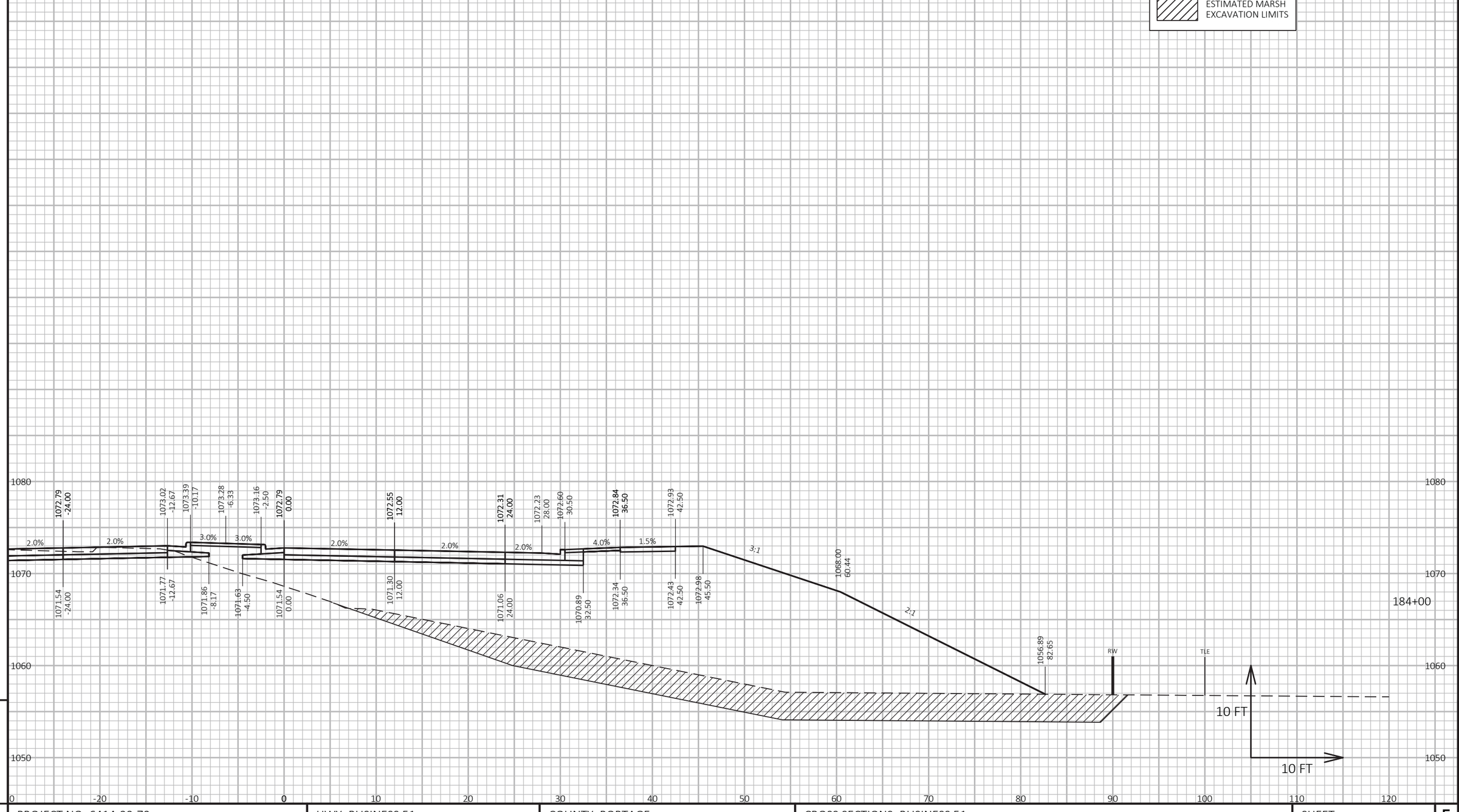
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LAYOUT NAME - Section Sheet - (06)

PLOT DATE : 10/23/2020 7:51 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

LEGEND

ESTIMATED MARSH EXCAVATION LIMITS



9

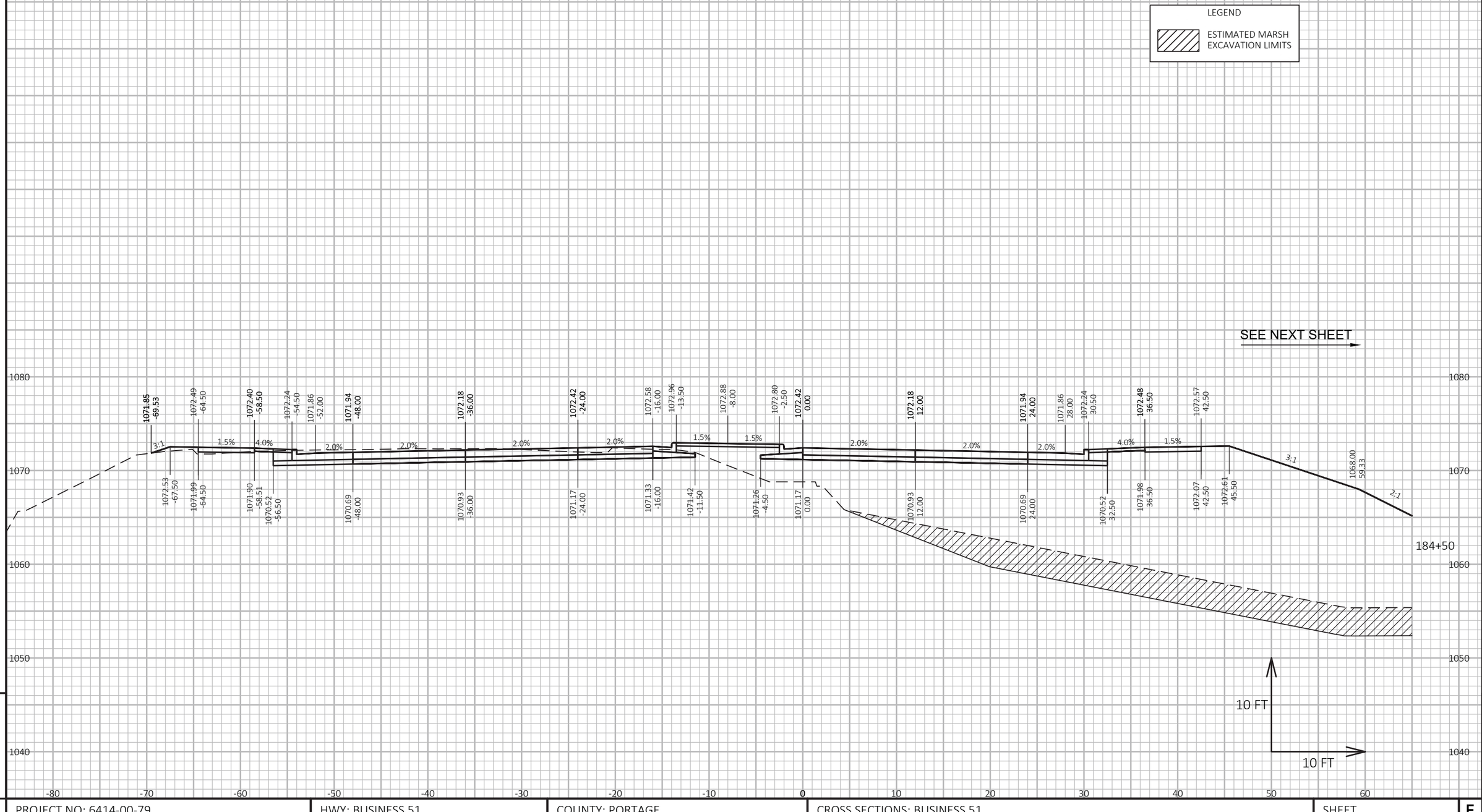
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PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 312	E

LEGEND

ESTIMATED MARSH EXCAVATION LIMITS

SEE NEXT SHEET



9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET	E

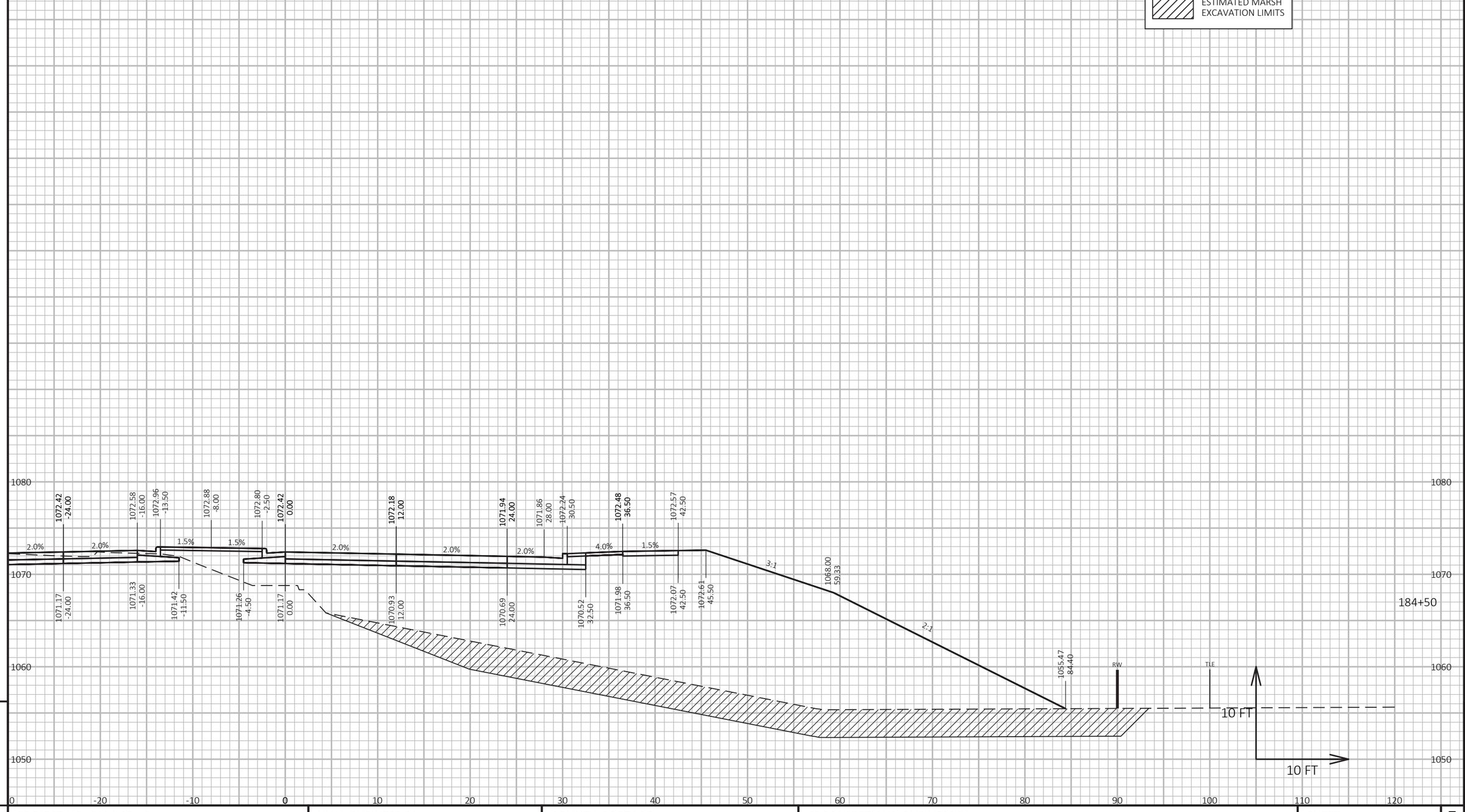
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LAYOUT NAME - Section Sheet - (07)

PLOT DATE : 10/23/2020 7:52 AM PLOT BY : ANNIE M. JEROME PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

LEGEND

ESTIMATED MARSH EXCAVATION LIMITS



9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 314	E

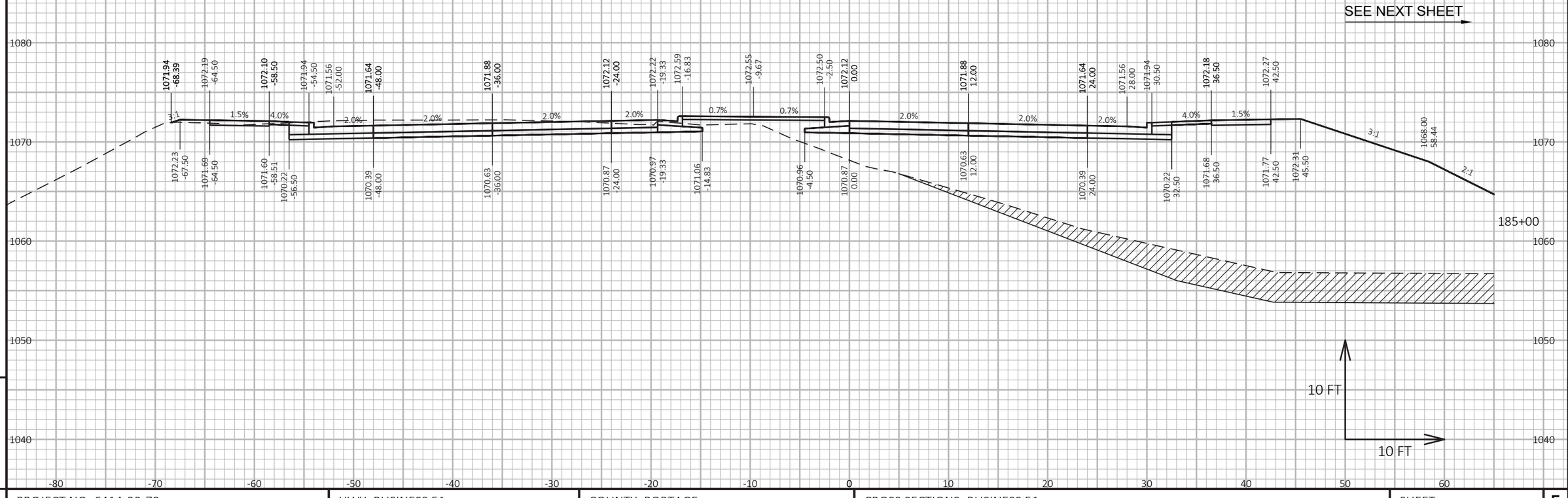
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LAYOUT NAME - Section Sheet - (03)

PLOT DATE : 10/23/2020 7:52 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

LEGEND

ESTIMATED MARSH EXCAVATION LIMITS

SEE NEXT SHEET



9

9

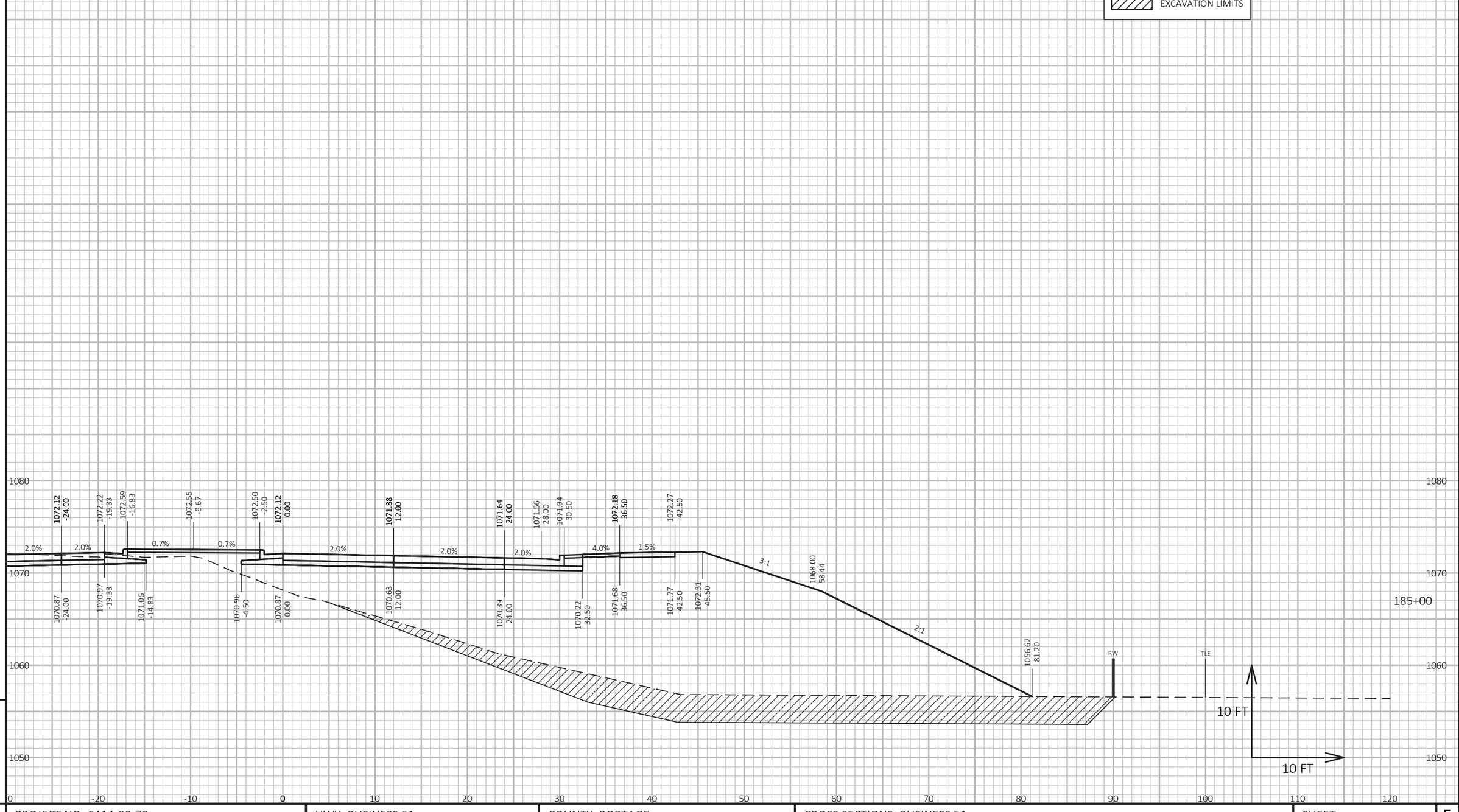
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 315	E

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LAYOUT NAME - Section Sheet - (08)

PLOT DATE : 10/23/2020 7:53 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

LEGEND

ESTIMATED MARSH EXCAVATION LIMITS



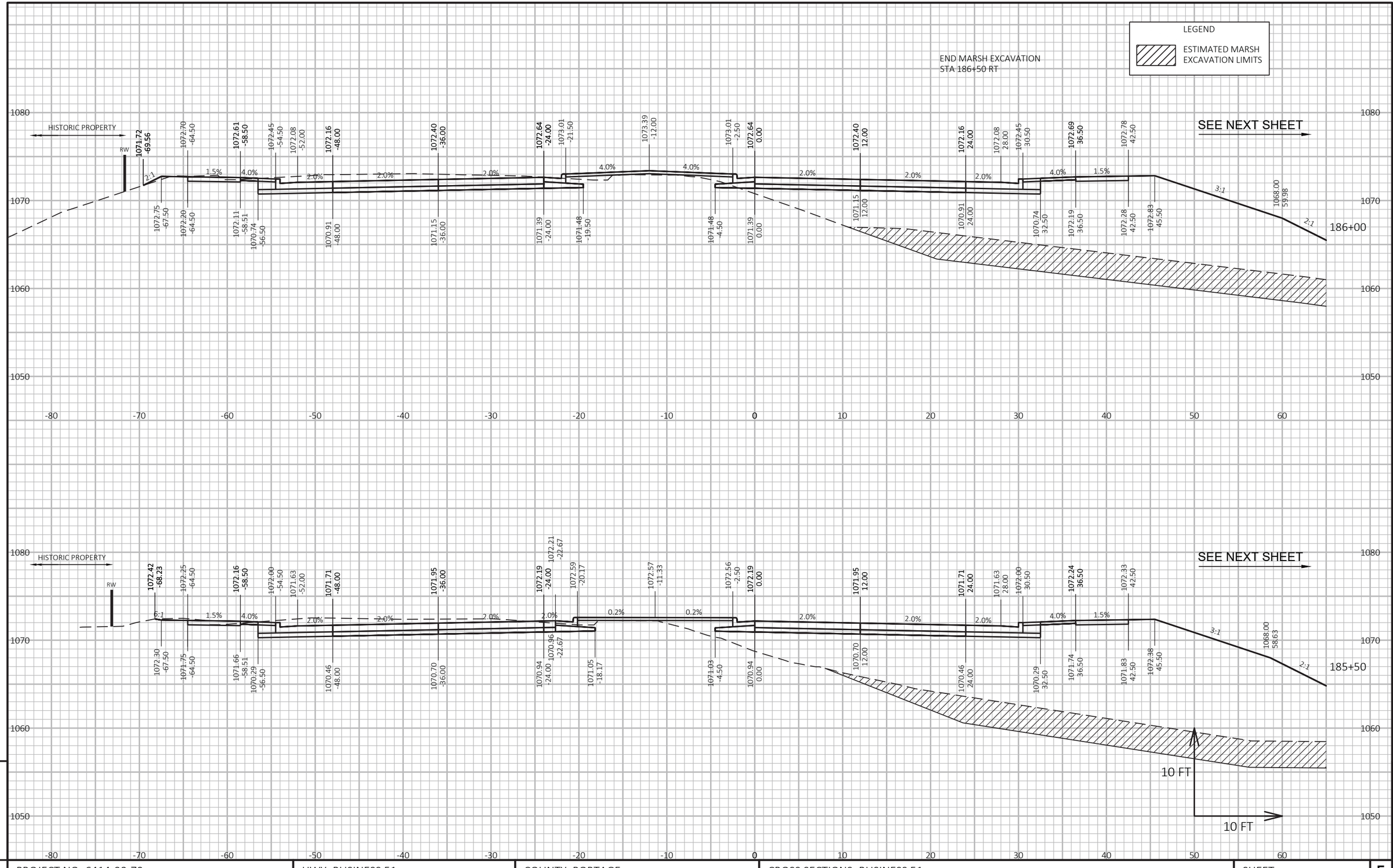
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PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 316	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201_1 XS.DWG
LAYOUT NAME - Section Sheet - (04)

PLOT DATE : 10/23/2020 7:53 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 317	E

9

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (09)
PLOT DATE : 10/23/2020 7:53 AM
PLOT BY : ANNIE M. JEROME
PLOT NAME :
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

LEGEND

ESTIMATED MARSH EXCAVATION LIMITS

END MARSH EXCAVATION
STA 186+50 RT

186+00

185+50

RW

TLE

10 FT

10 FT

9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 318	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201_1 XS.DWG
LAYOUT NAME - Section Sheet - (05)

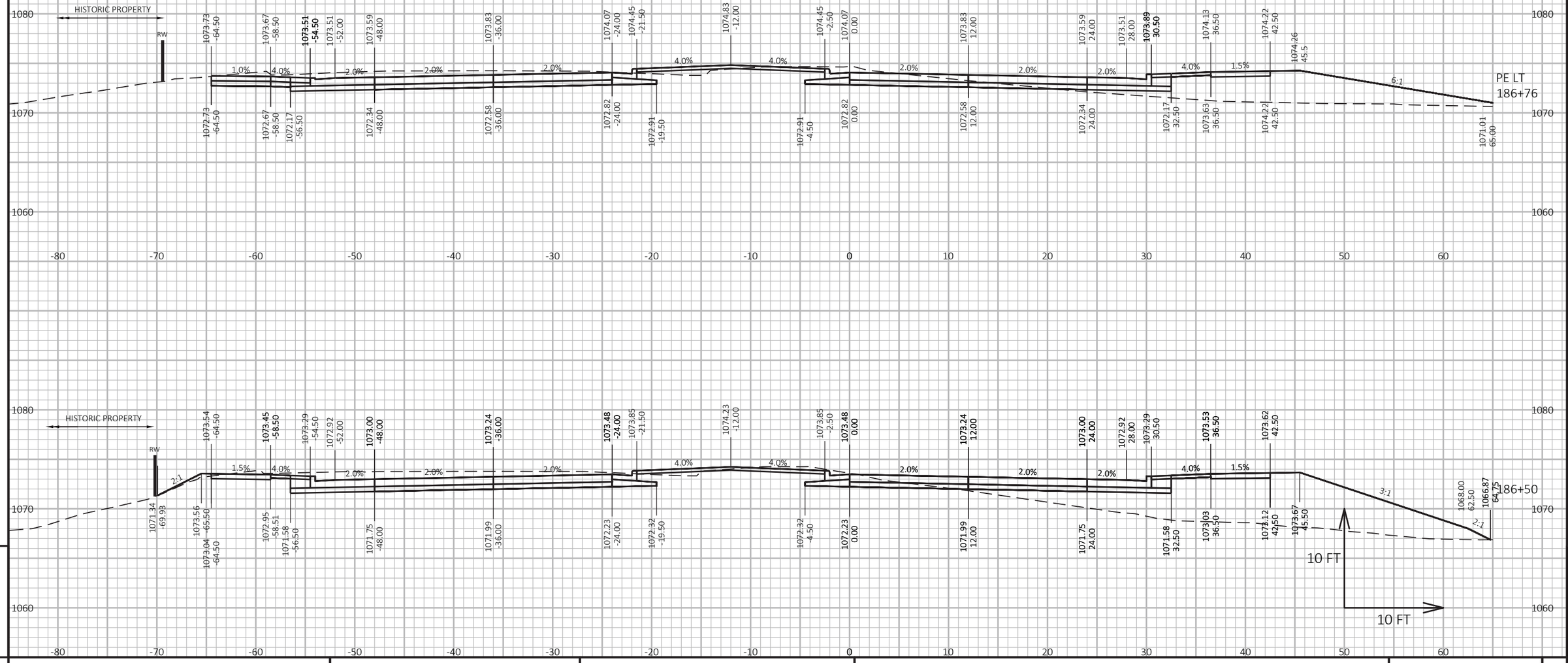
PLOT DATE : 10/23/2020 7:54 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 319	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (10)

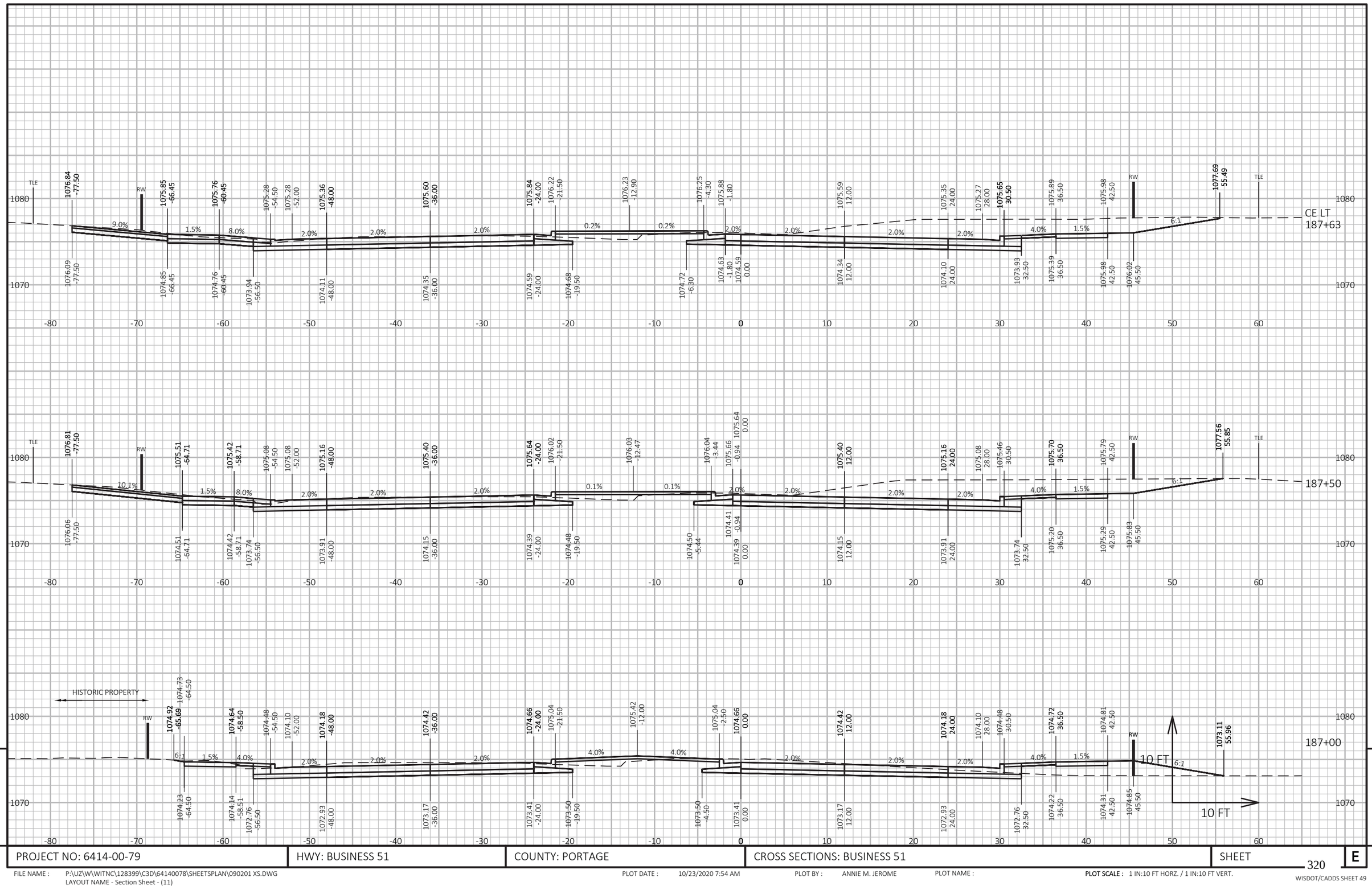
PLOT DATE : 10/23/2020 7:54 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 320	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (11)

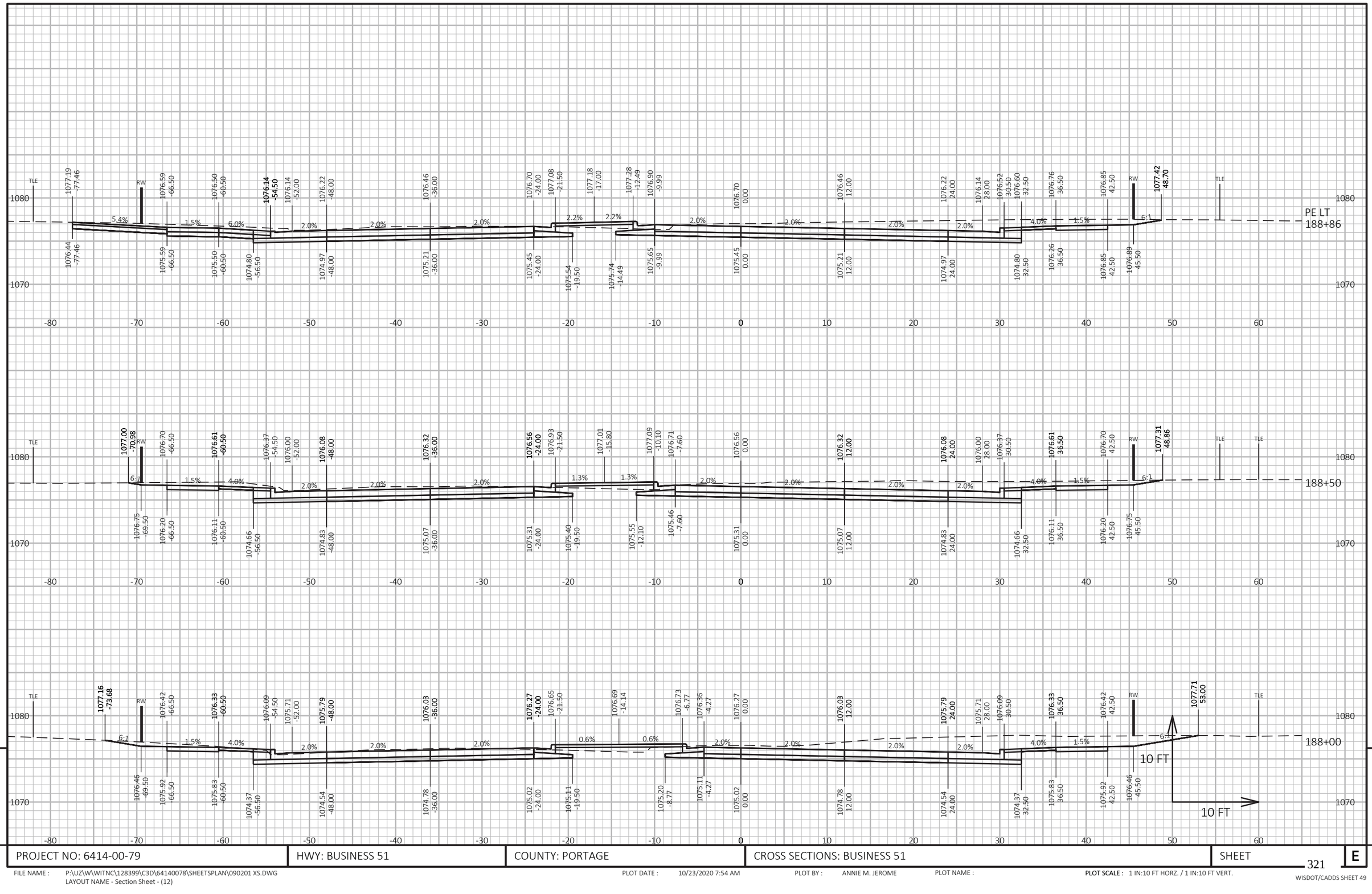
PLOT DATE : 10/23/2020 7:54 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

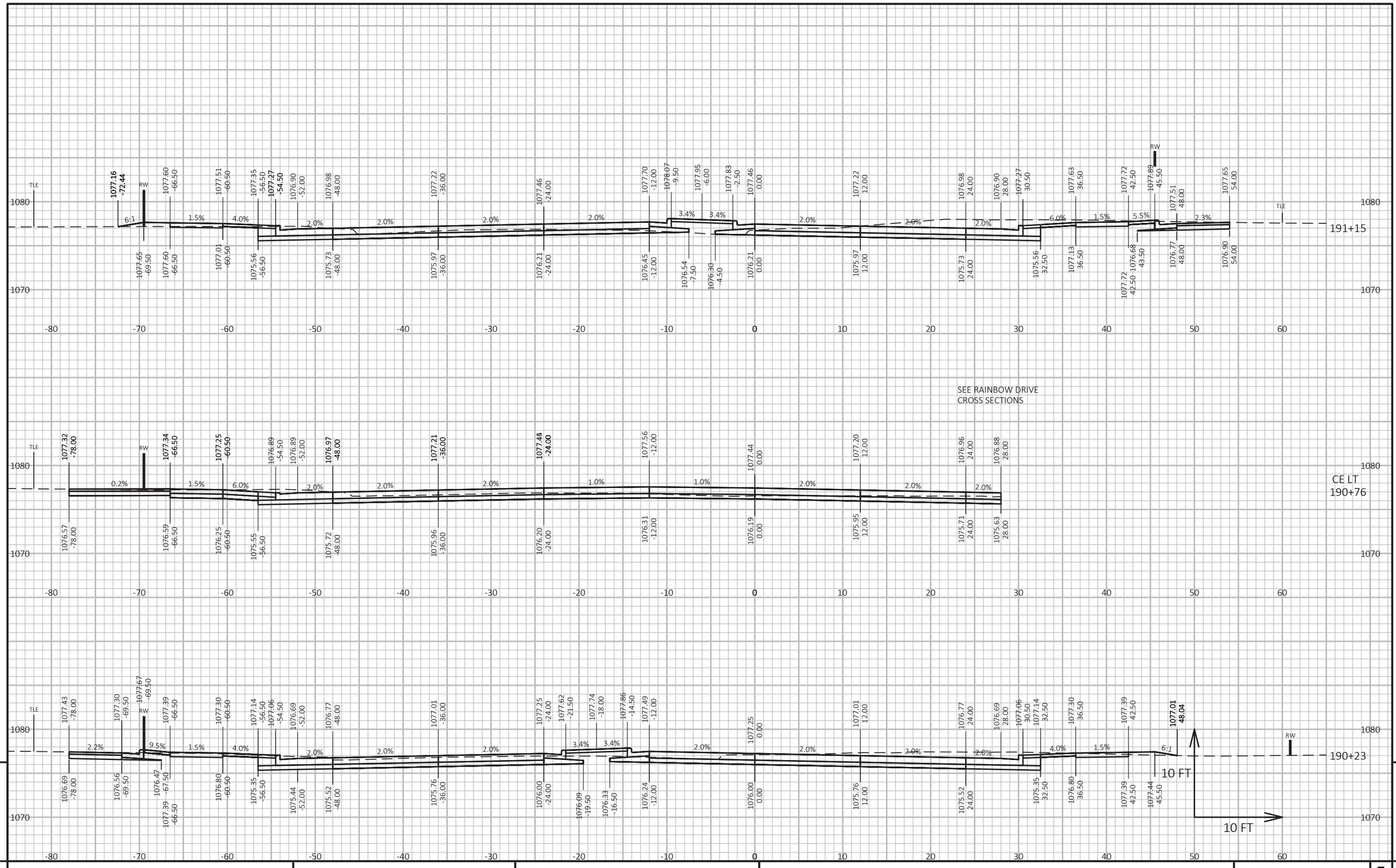


PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 321	E

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LAYOUT NAME - Section Sheet - (12)

PLOT DATE : 10/23/2020 7:54 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 322	E



9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 323	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (14)

PLOT DATE : 10/23/2020 7:55 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9

9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 324	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (15)

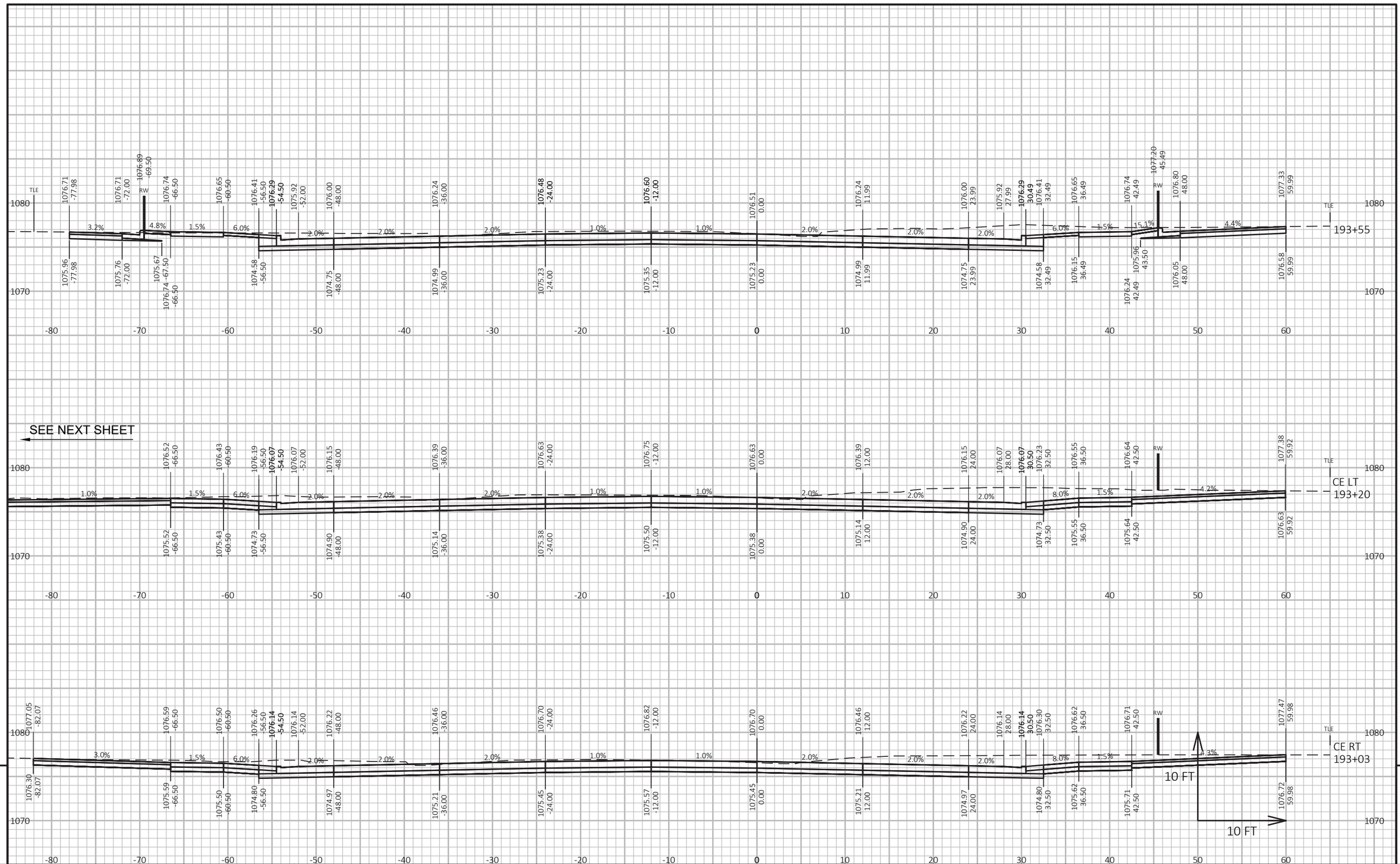
PLOT DATE : 10/23/2020 7:55 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 325	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (16)

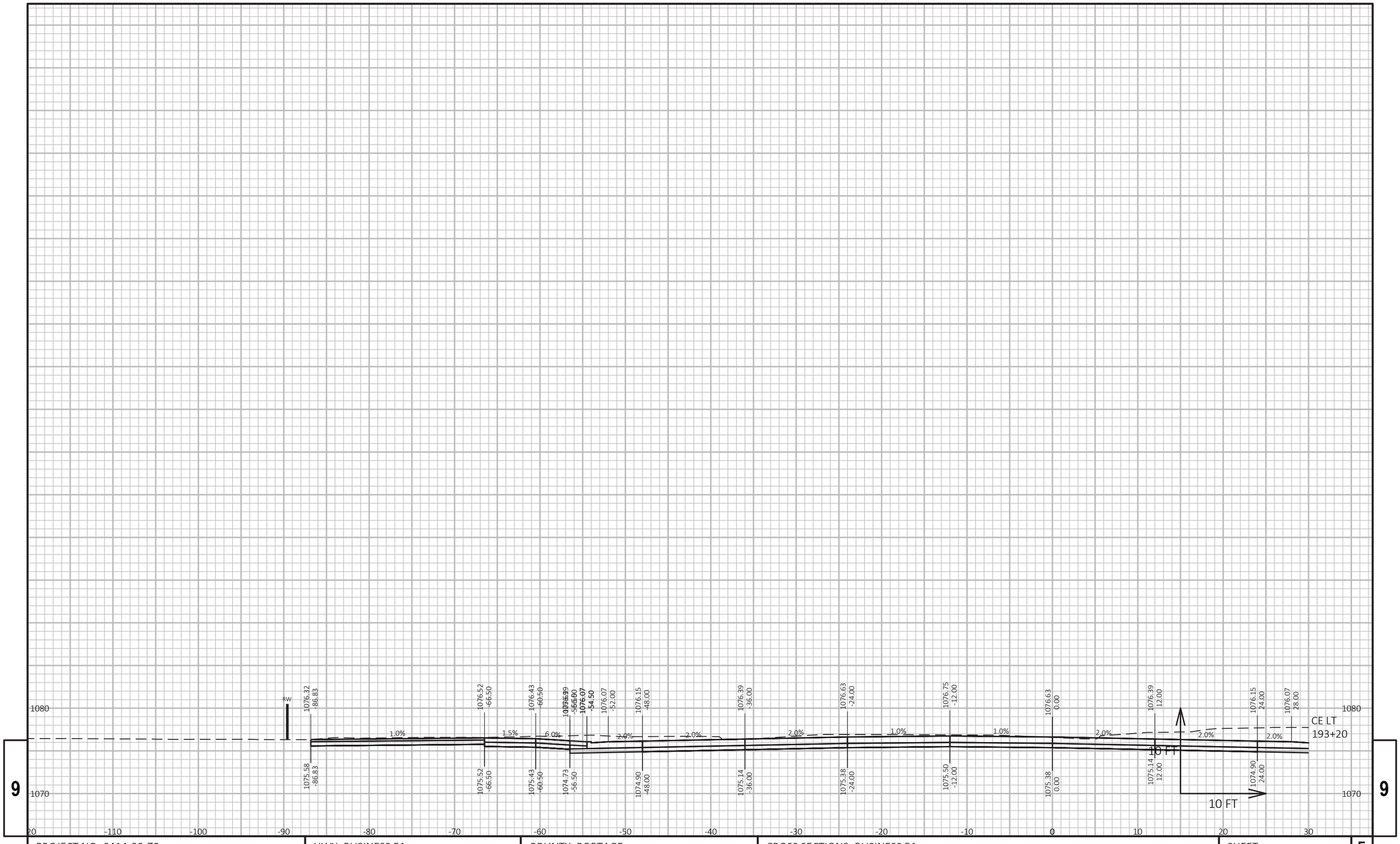
PLOT DATE : 10/23/2020 7:55 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



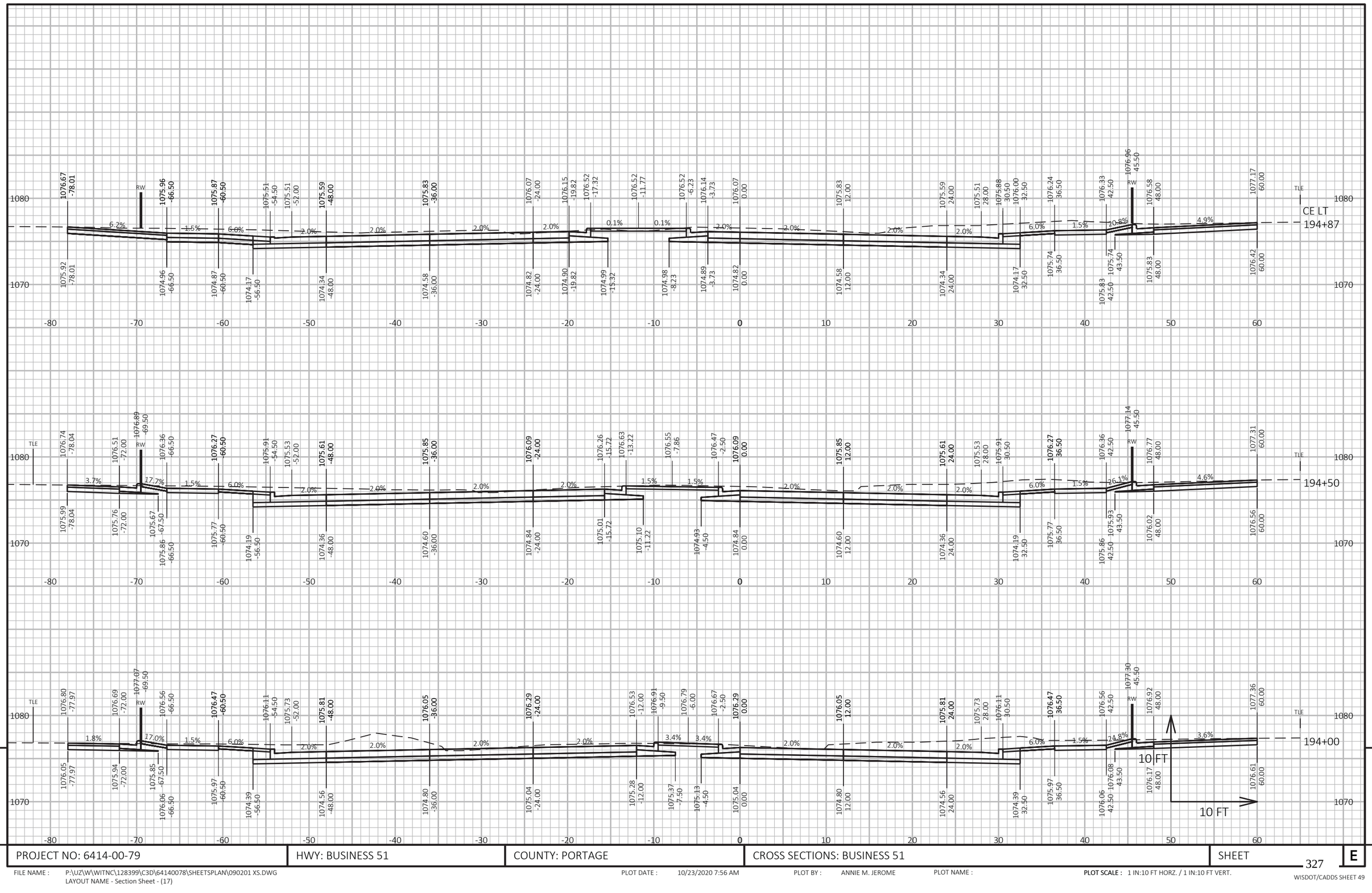
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PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 326	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201_1 XS.DWG
LAYOUT NAME - Section Sheet - (06)

PLOT DATE : 10/23/2020 7:55 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 327	E

9

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (17)

PLOT DATE : 10/23/2020 7:56 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 328	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (18)

PLOT DATE : 10/23/2020 7:56 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

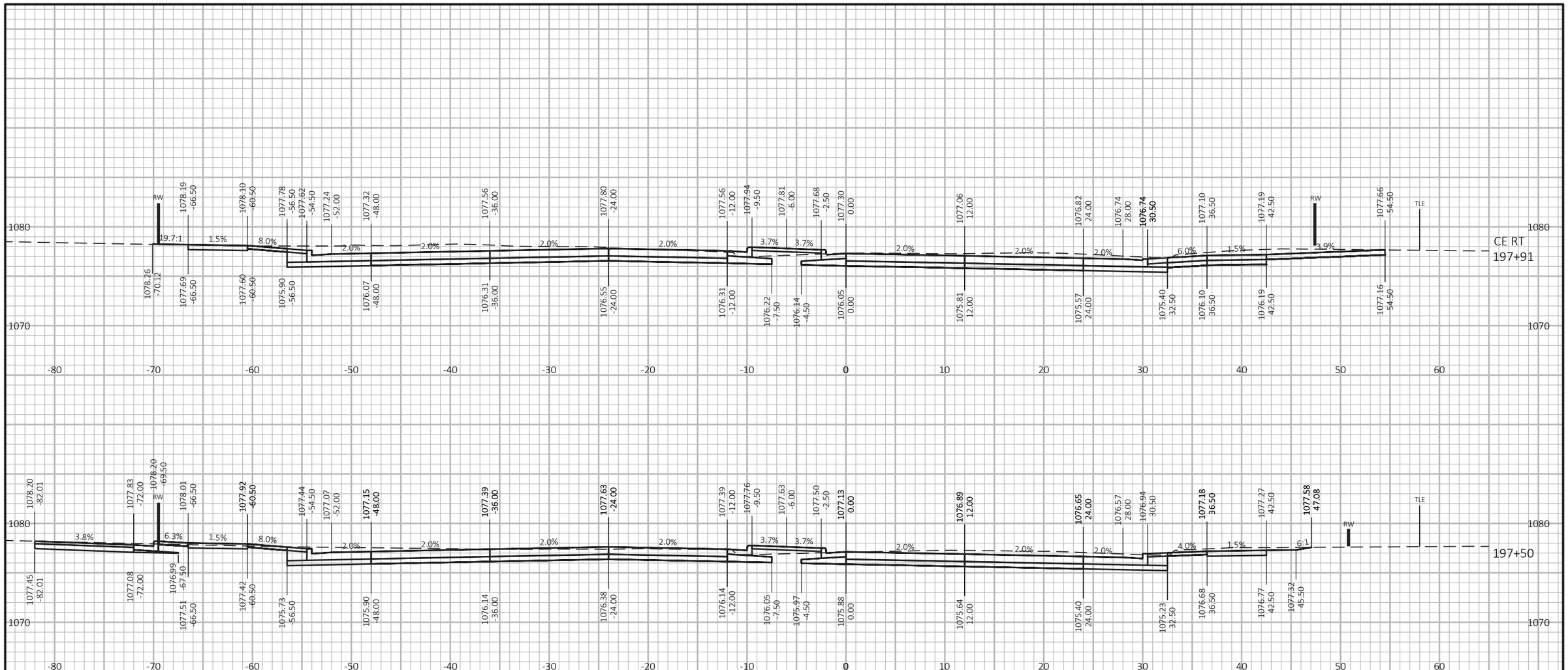
WISDOT/CADDS SHEET 49

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 329	E

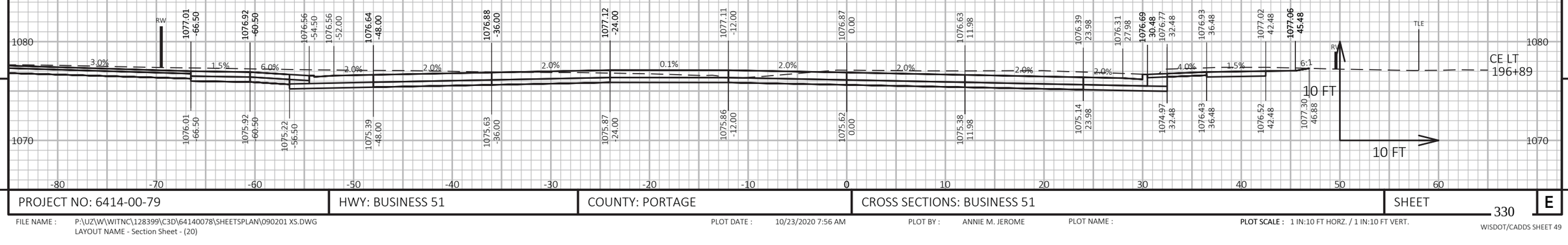
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LAYOUT NAME - Section Sheet - (19)

PLOT DATE : 10/23/2020 7:56 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



SEE NEXT SHEET



9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 330	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (20)

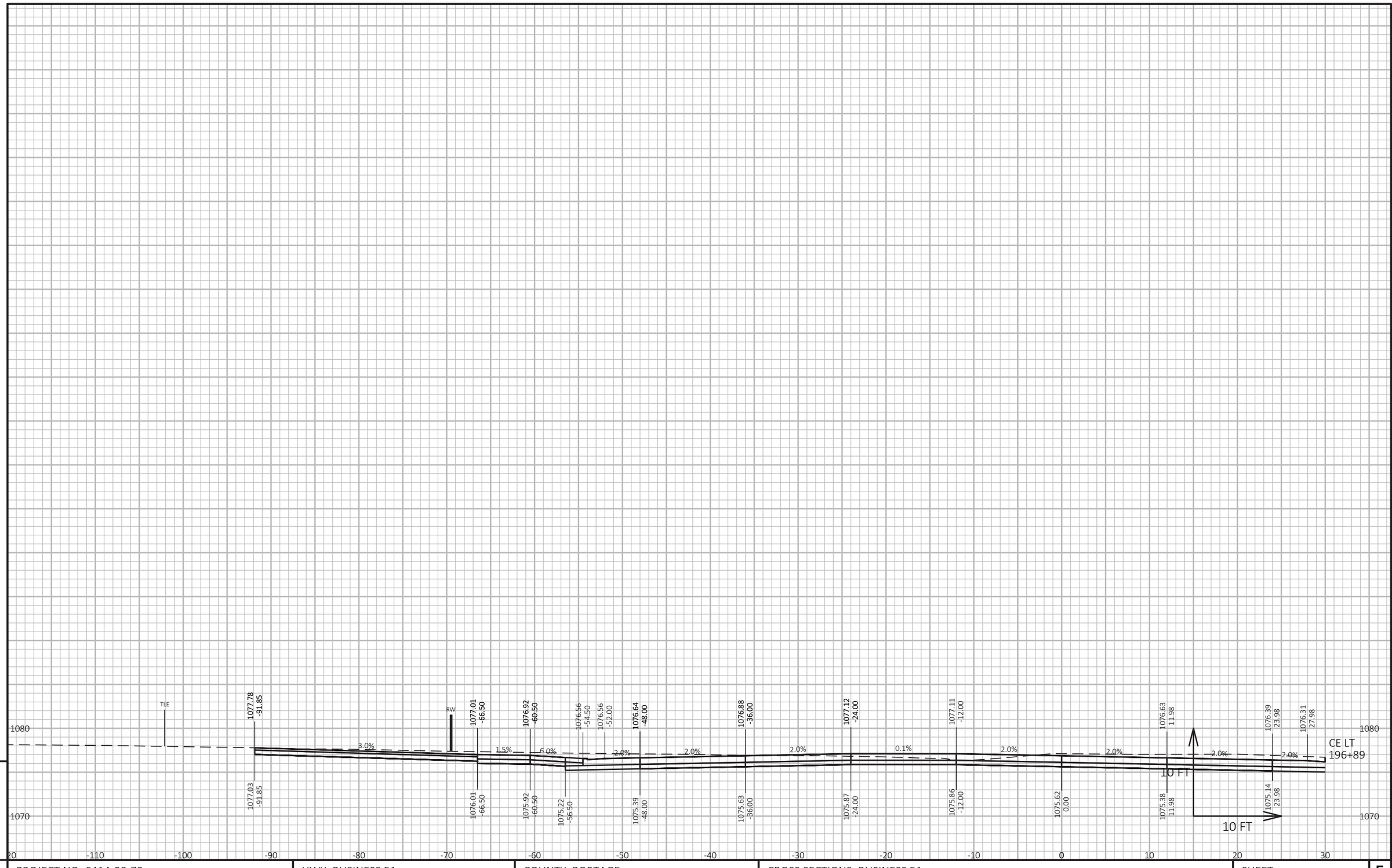
PLOT DATE : 10/23/2020 7:56 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

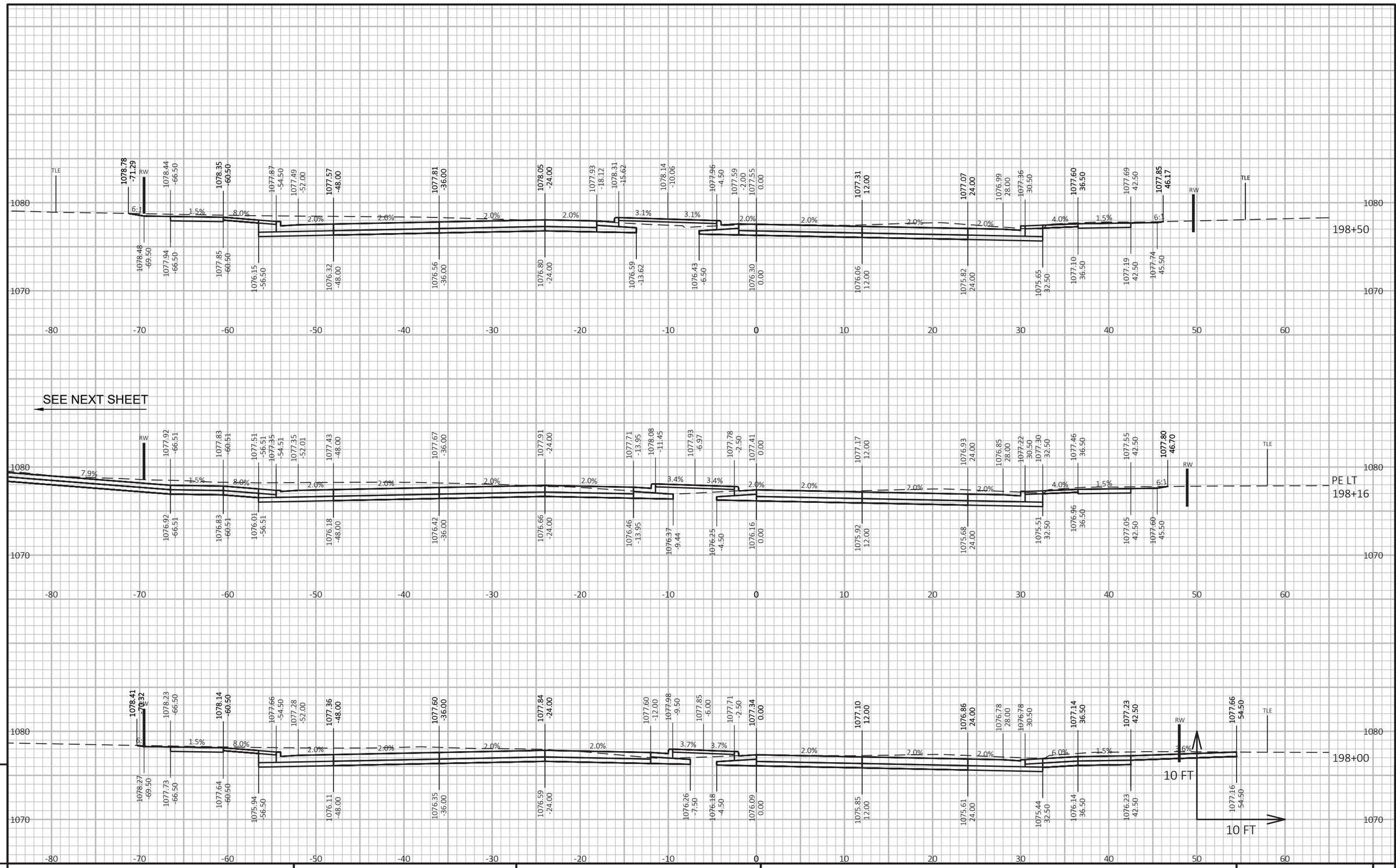
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 331	E



9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 332	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
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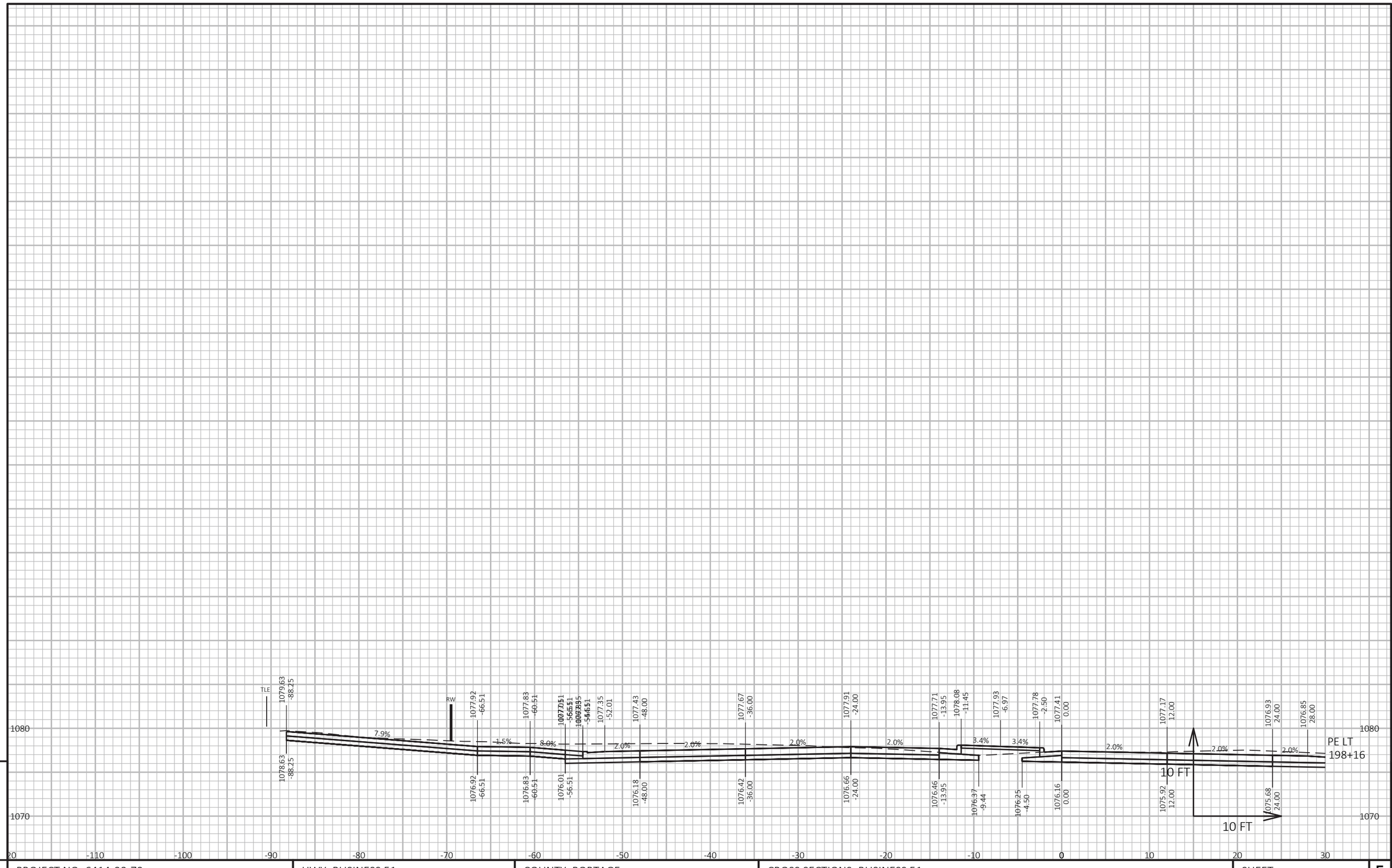
PLOT DATE : 10/23/2020 7:57 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



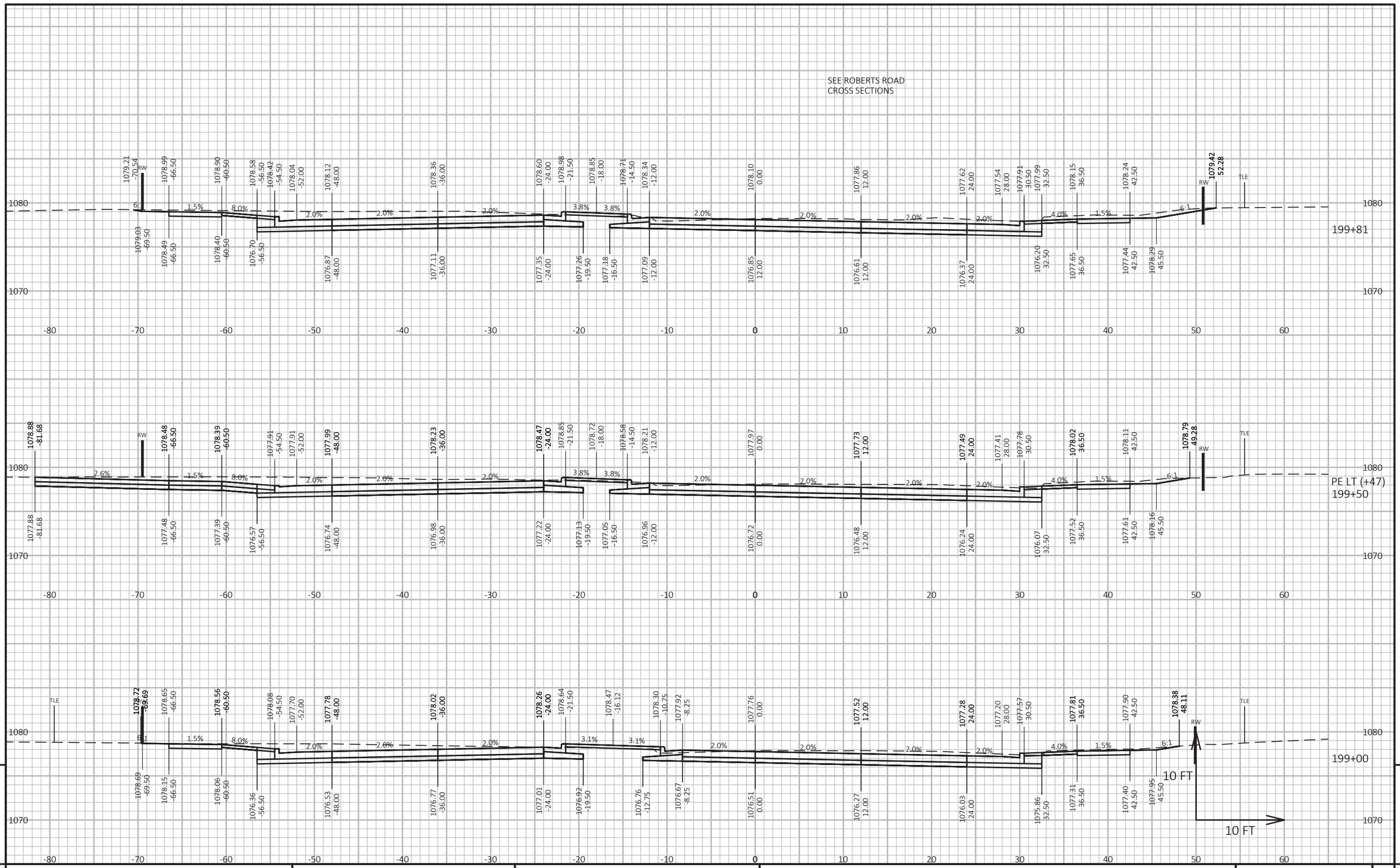
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PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 333	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201_1 XS.DWG
LAYOUT NAME - Section Sheet - (08)

PLOT DATE : 10/23/2020 7:57 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

SEE ROBERTS ROAD
CROSS SECTIONS

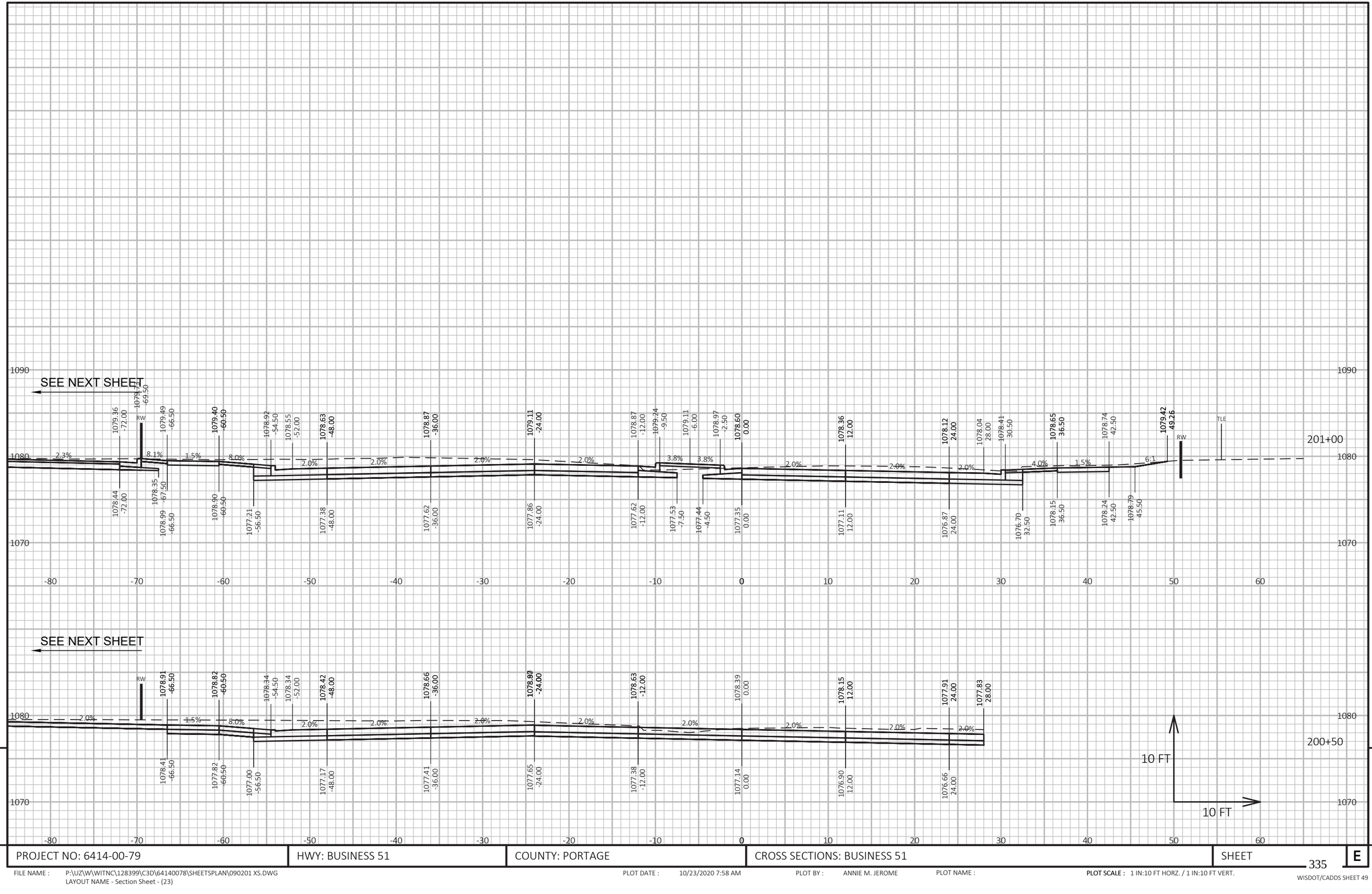


PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 334	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (22)

PLOT DATE : 10/23/2020 7:58 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

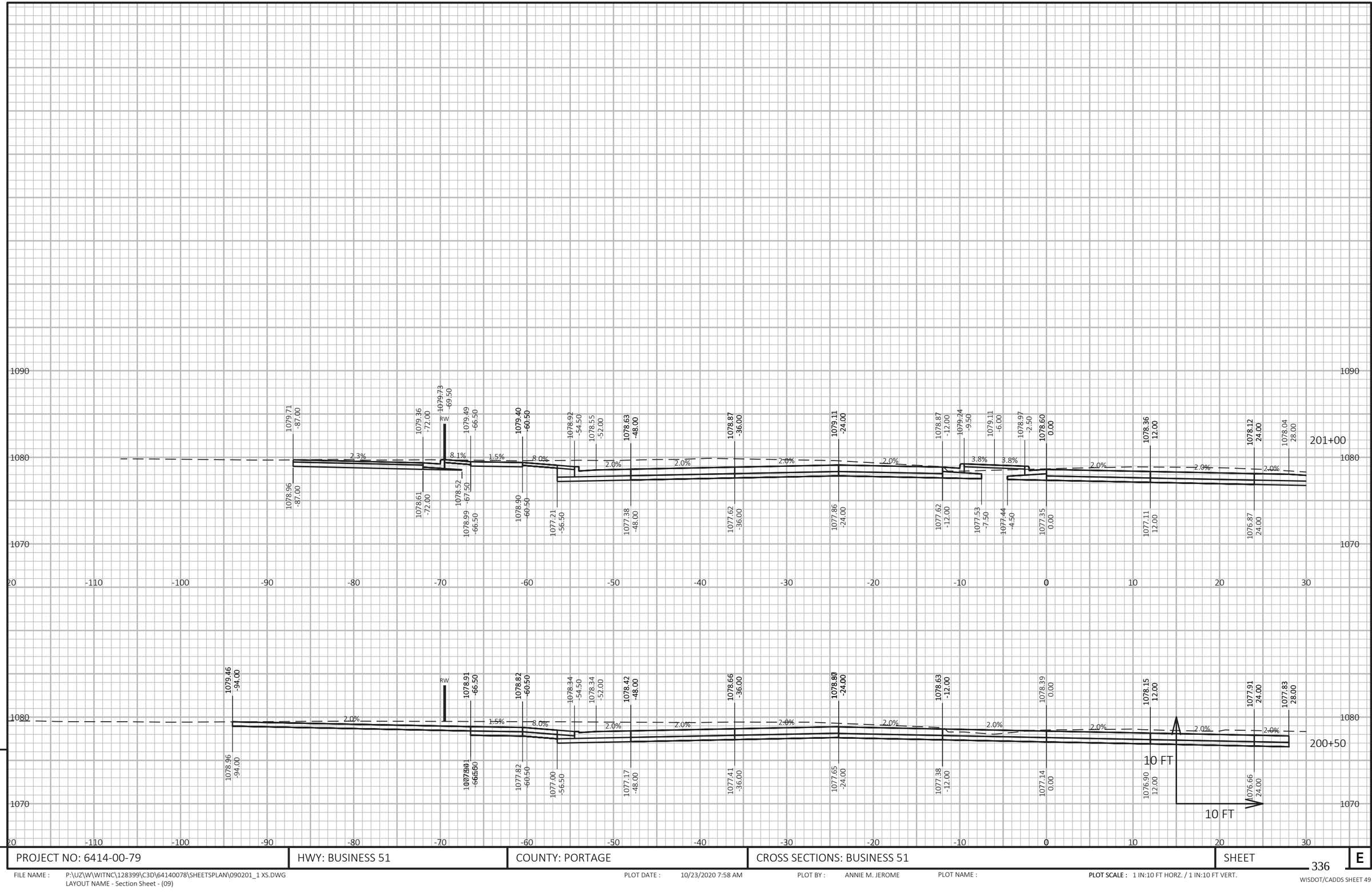
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PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 335	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (23)

PLOT DATE : 10/23/2020 7:58 AM PLOT BY : ANNIE M. JEROME PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

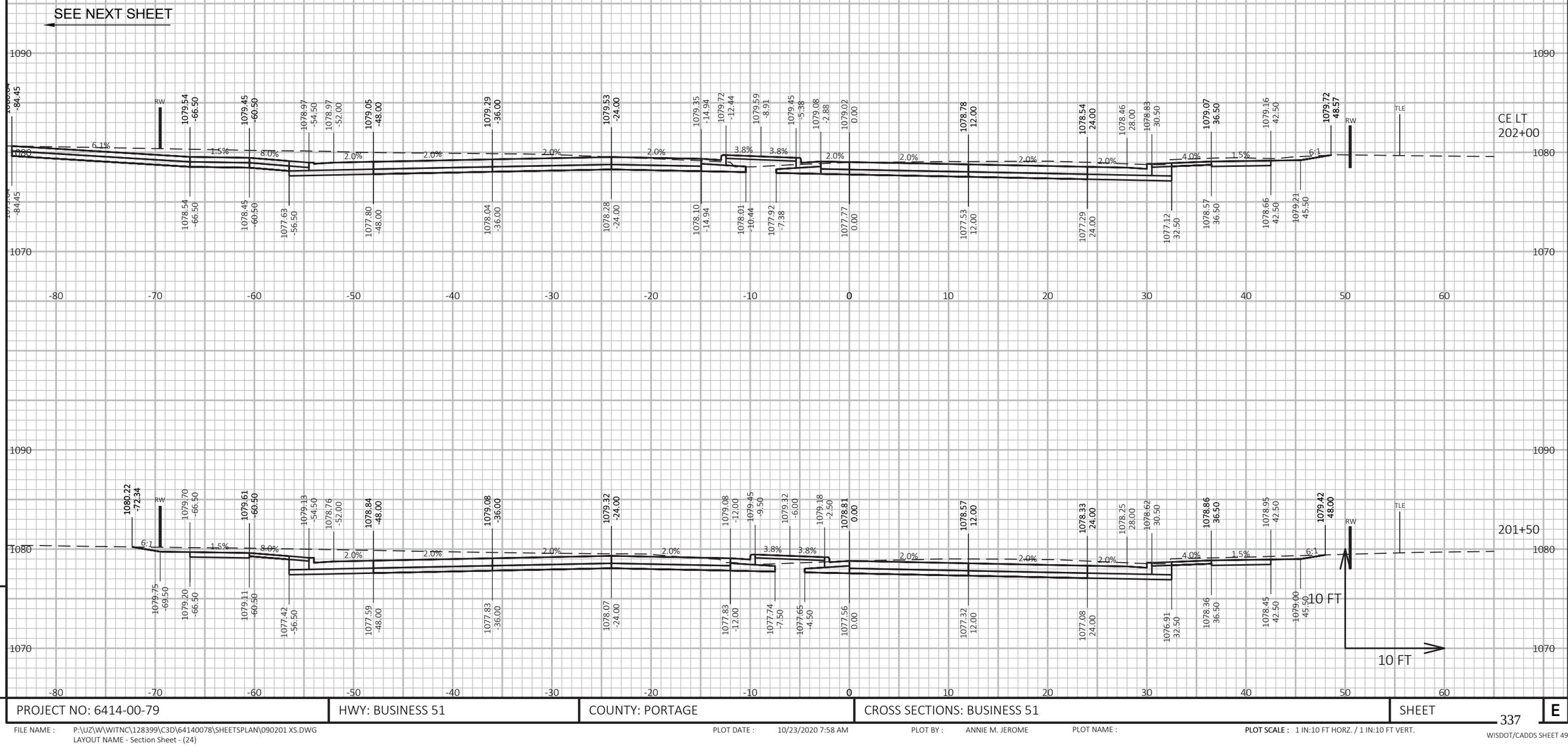
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 336	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201_1 XS.DWG
LAYOUT NAME - Section Sheet - (09)

PLOT DATE : 10/23/2020 7:58 AM PLOT BY : ANNIE M. JEROME PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

SEE NEXT SHEET

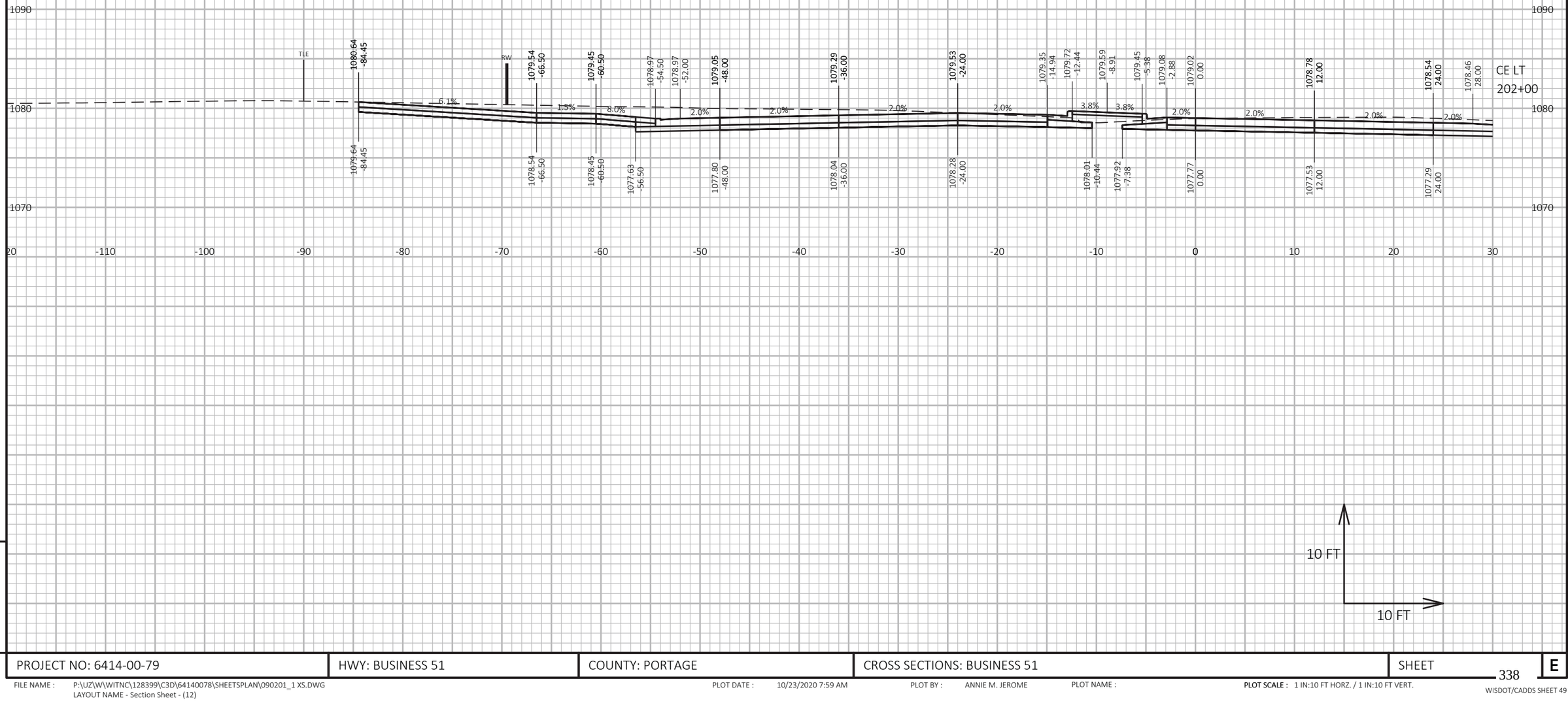


PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 337	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (24)

PLOT DATE : 10/23/2020 7:58 AM PLOT BY : ANNIE M. JEROME PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



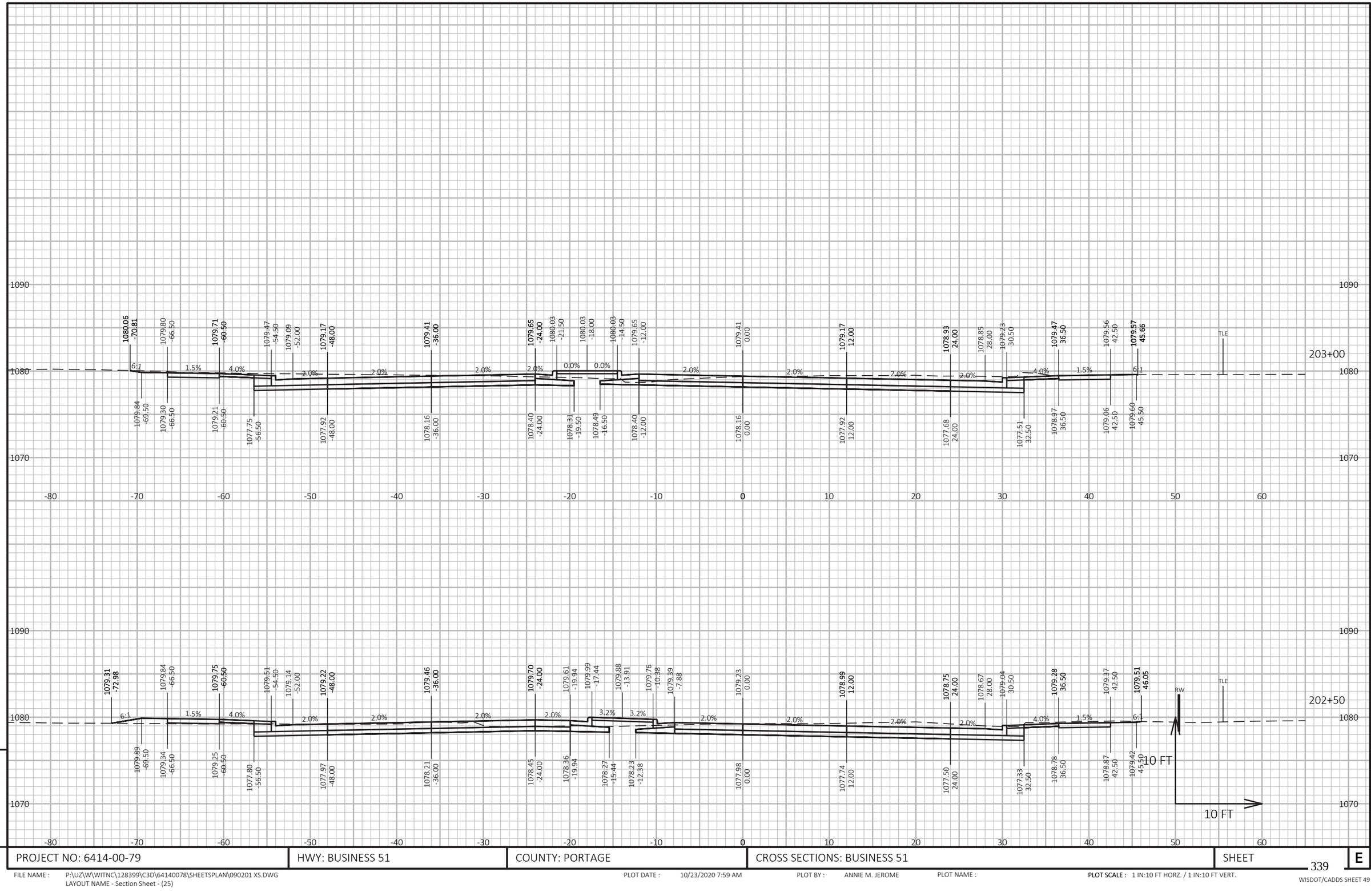
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PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201_1 XS.DWG
LAYOUT NAME - Section Sheet - (12)

PLOT DATE : 10/23/2020 7:59 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



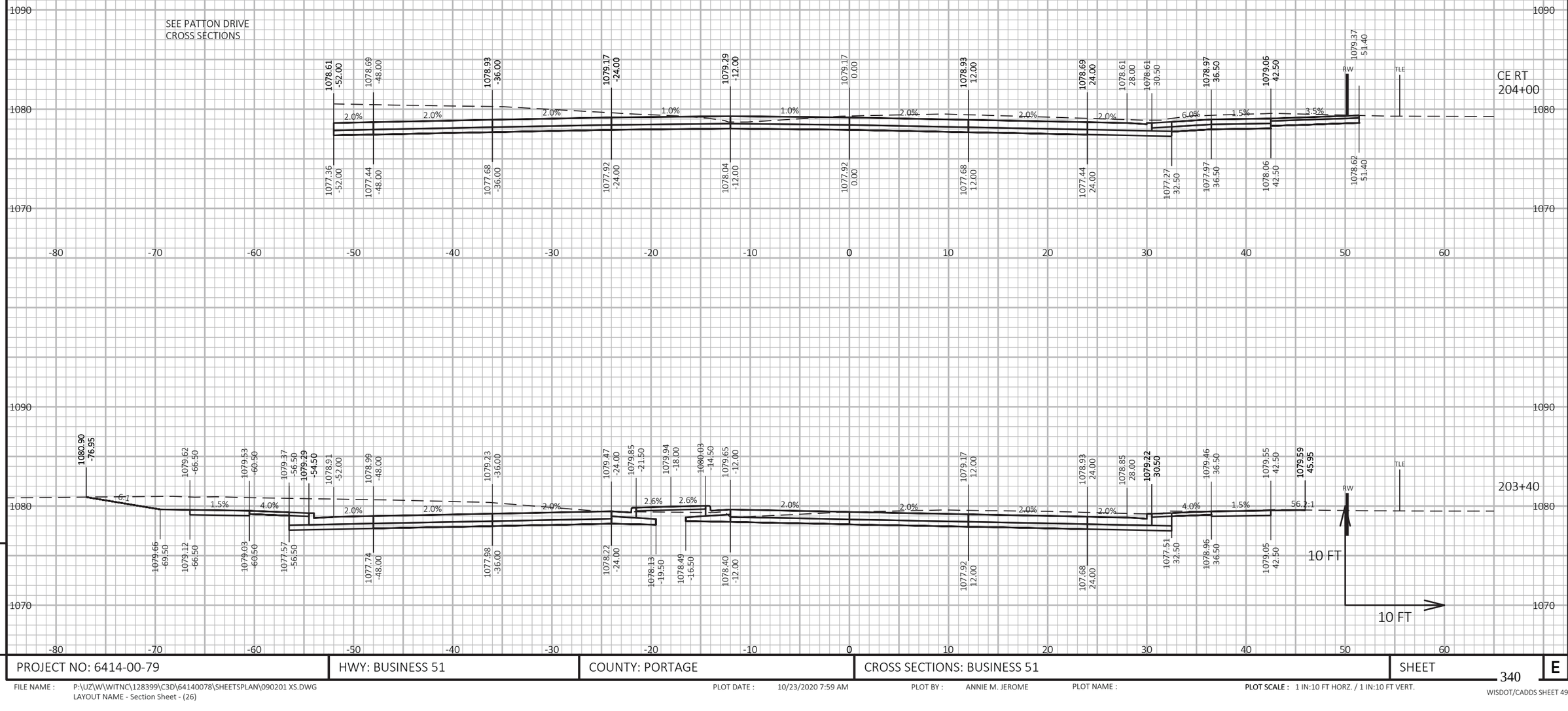
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 339	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (25)

PLOT DATE : 10/23/2020 7:59 AM PLOT BY : ANNIE M. JEROME PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

SEE PATTON DRIVE
CROSS SECTIONS



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 340	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (26)

PLOT DATE : 10/23/2020 7:59 AM PLOT BY : ANNIE M. JEROME PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

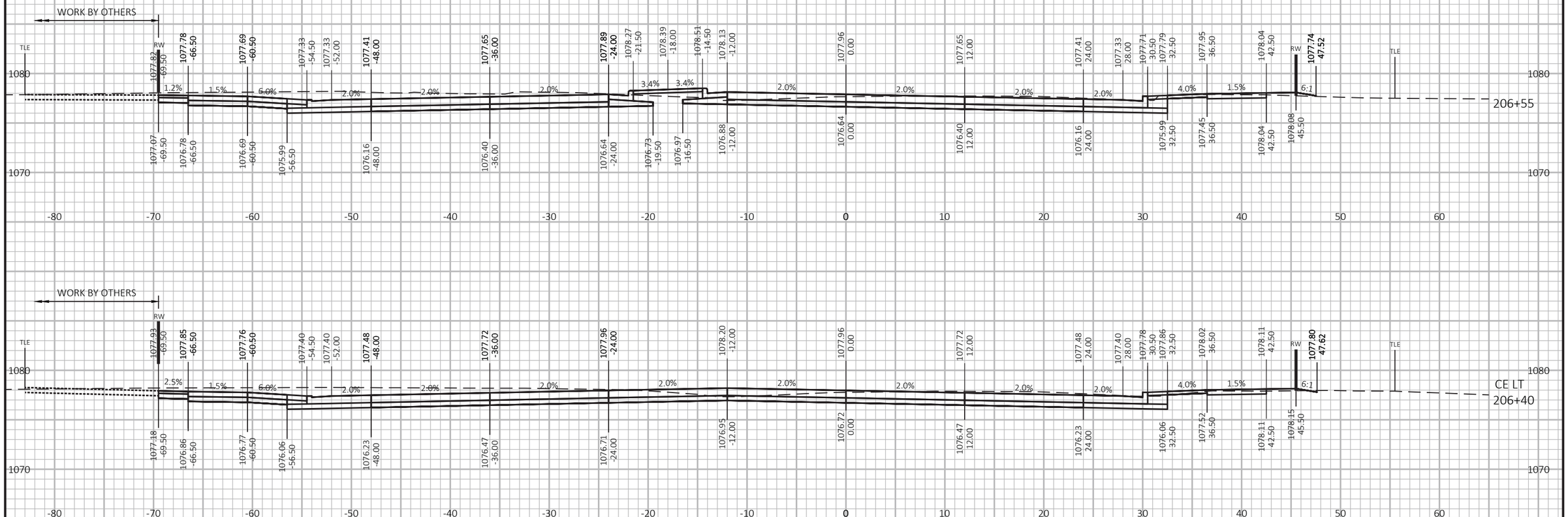
WISDOT/CADDS SHEET 49

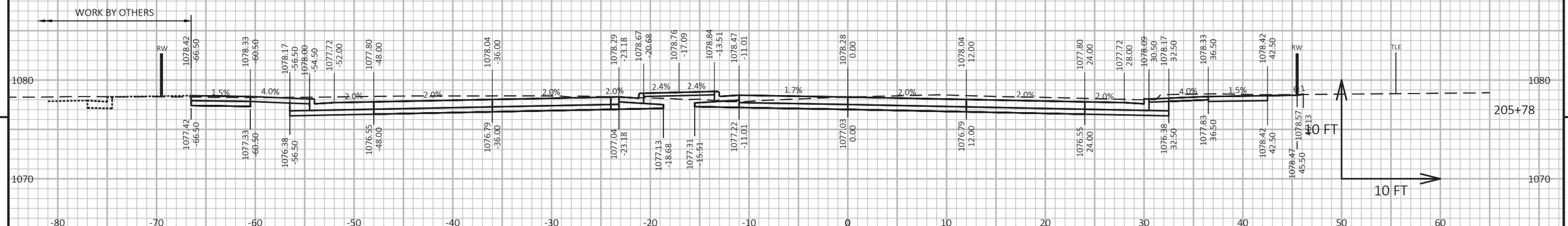
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 341 E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (27)

PLOT DATE : 10/23/2020 7:59 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 342	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (28)

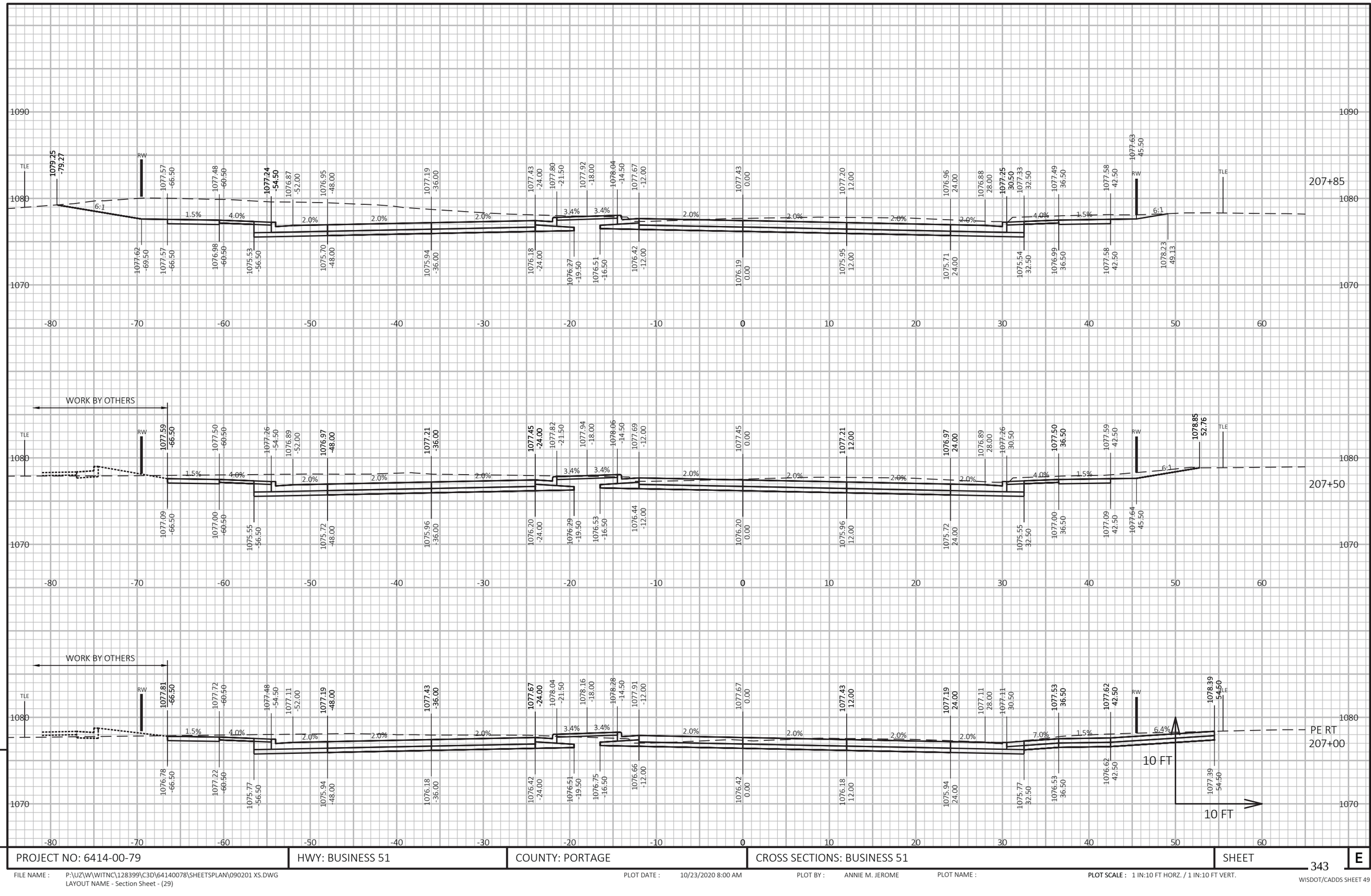
PLOT DATE : 10/23/2020 7:59 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 343	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (29)

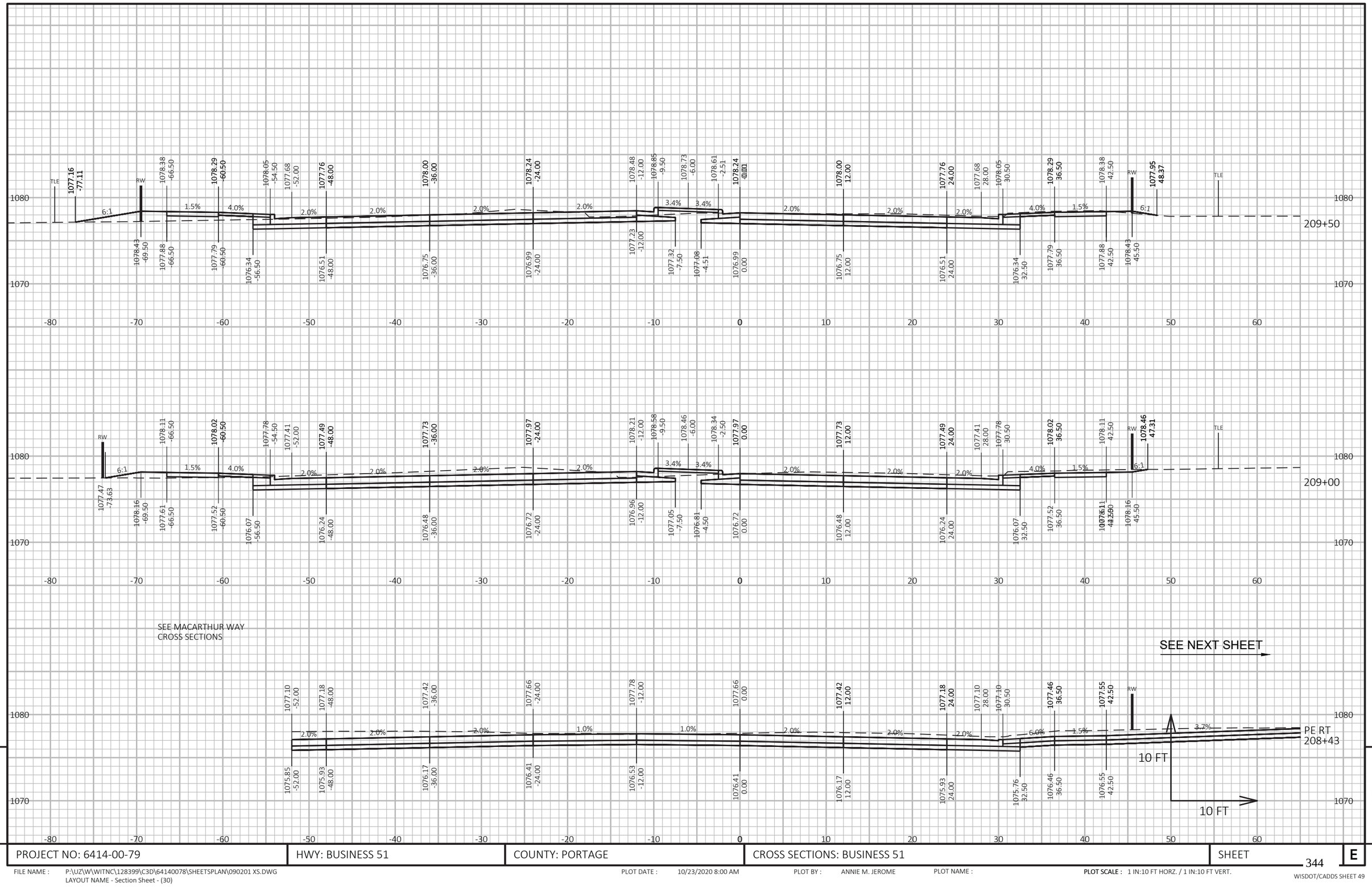
PLOT DATE : 10/23/2020 8:00 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 344	E

9

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (30)

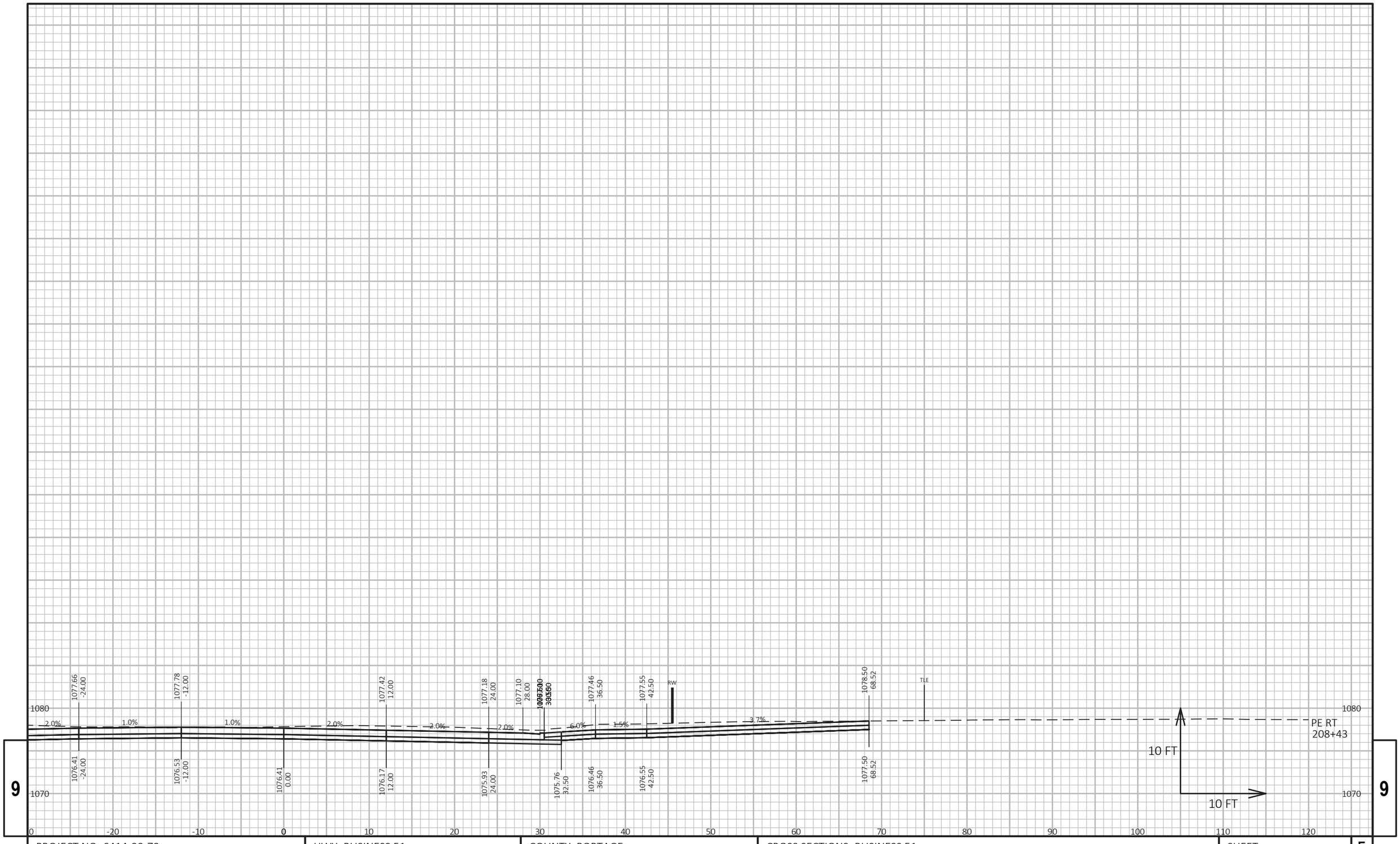
PLOT DATE : 10/23/2020 8:00 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

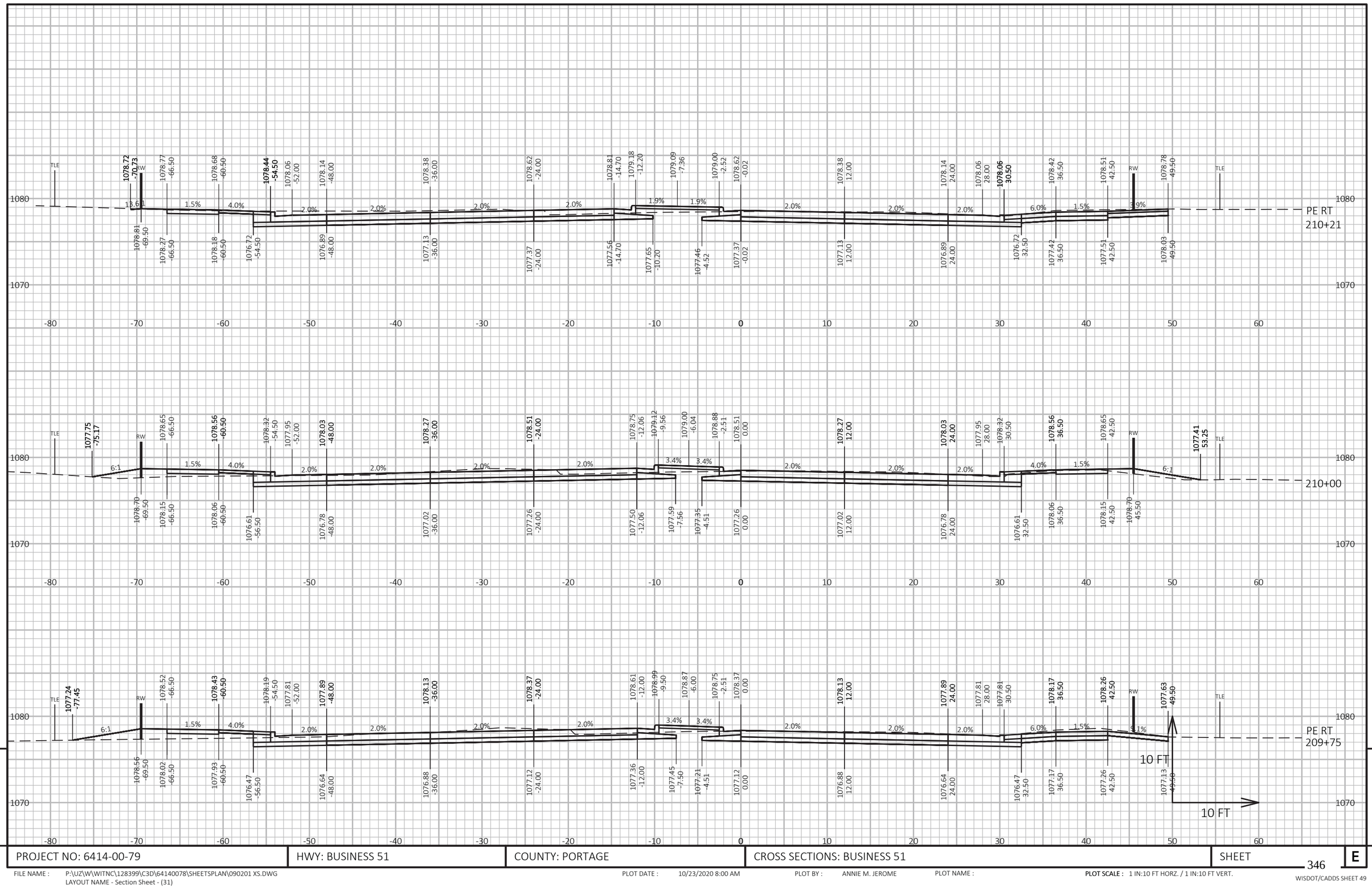
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PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 345	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201_1 XS.DWG
LAYOUT NAME - Section Sheet - (14)

PLOT DATE : 10/23/2020 8:00 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 346 E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (31)

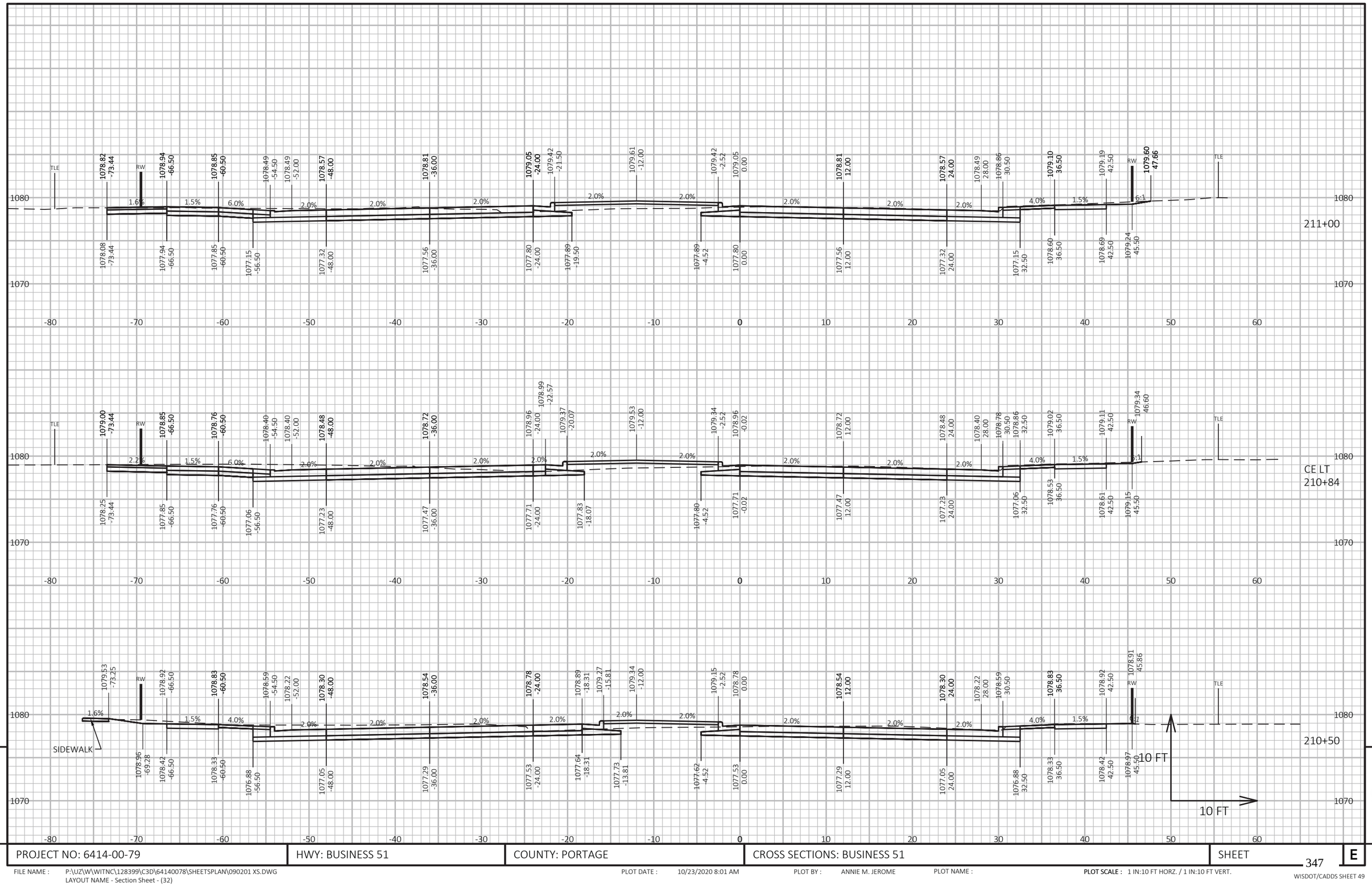
PLOT DATE : 10/23/2020 8:00 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



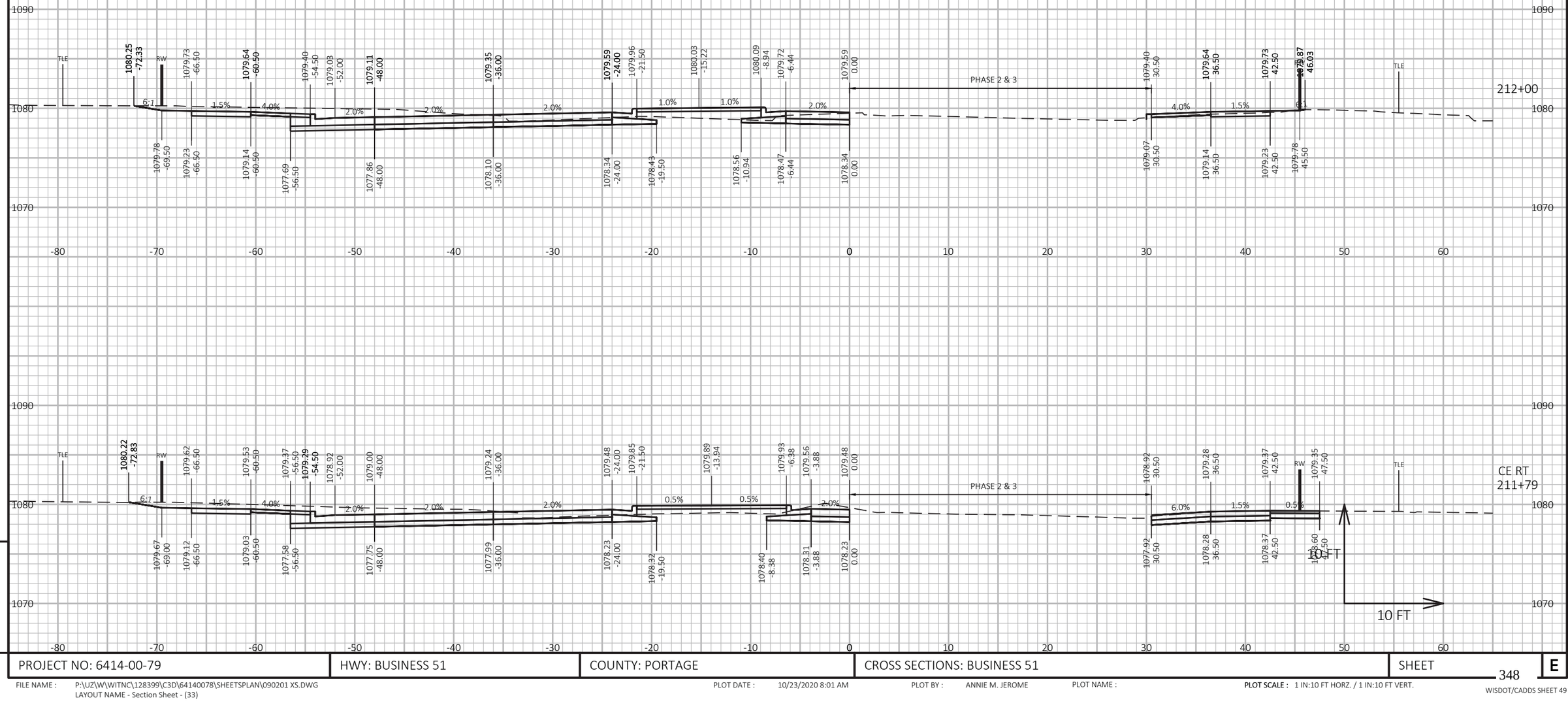
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PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 347	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (32)

PLOT DATE : 10/23/2020 8:01 AM PLOT BY : ANNIE M. JEROME PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

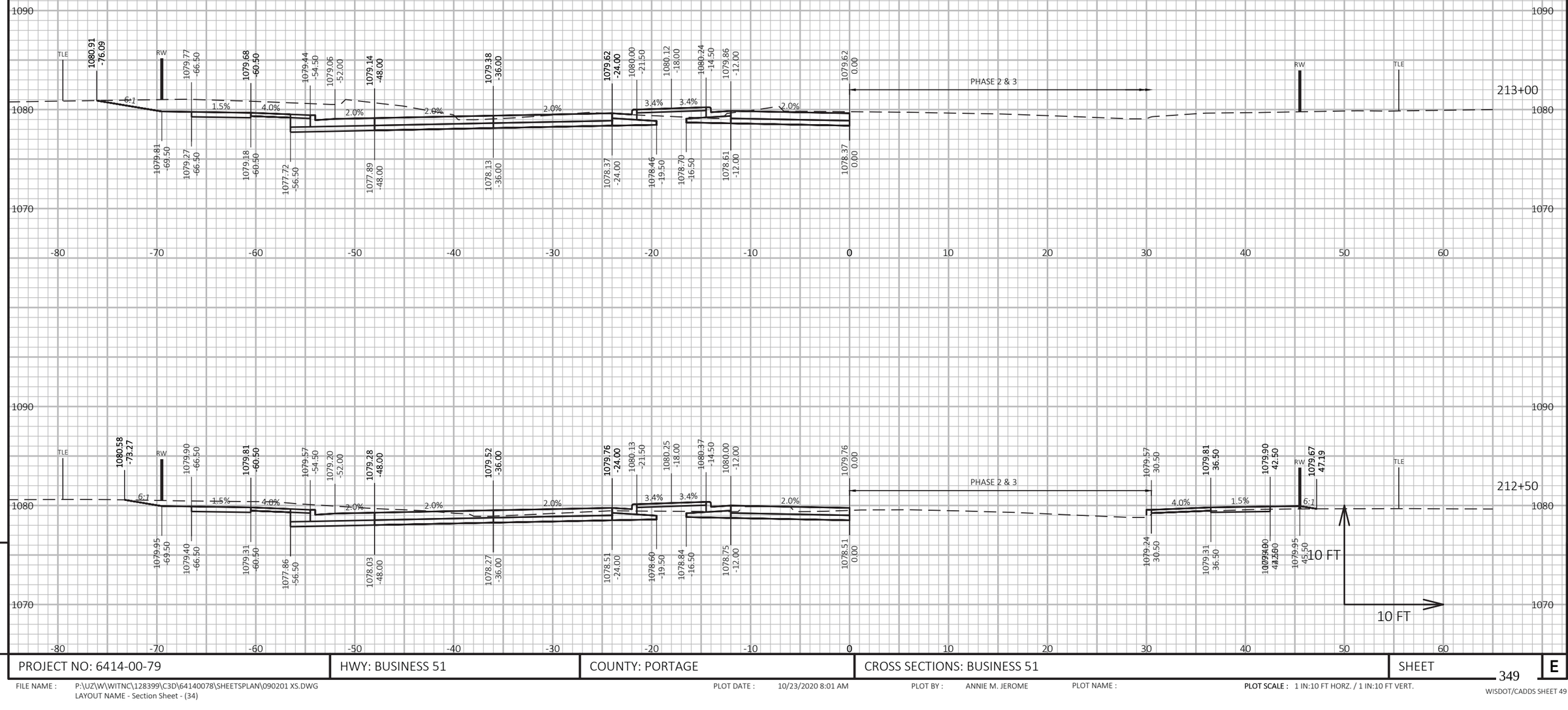


PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 348	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (33)

PLOT DATE : 10/23/2020 8:01 AM PLOT BY : ANNIE M. JEROME PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

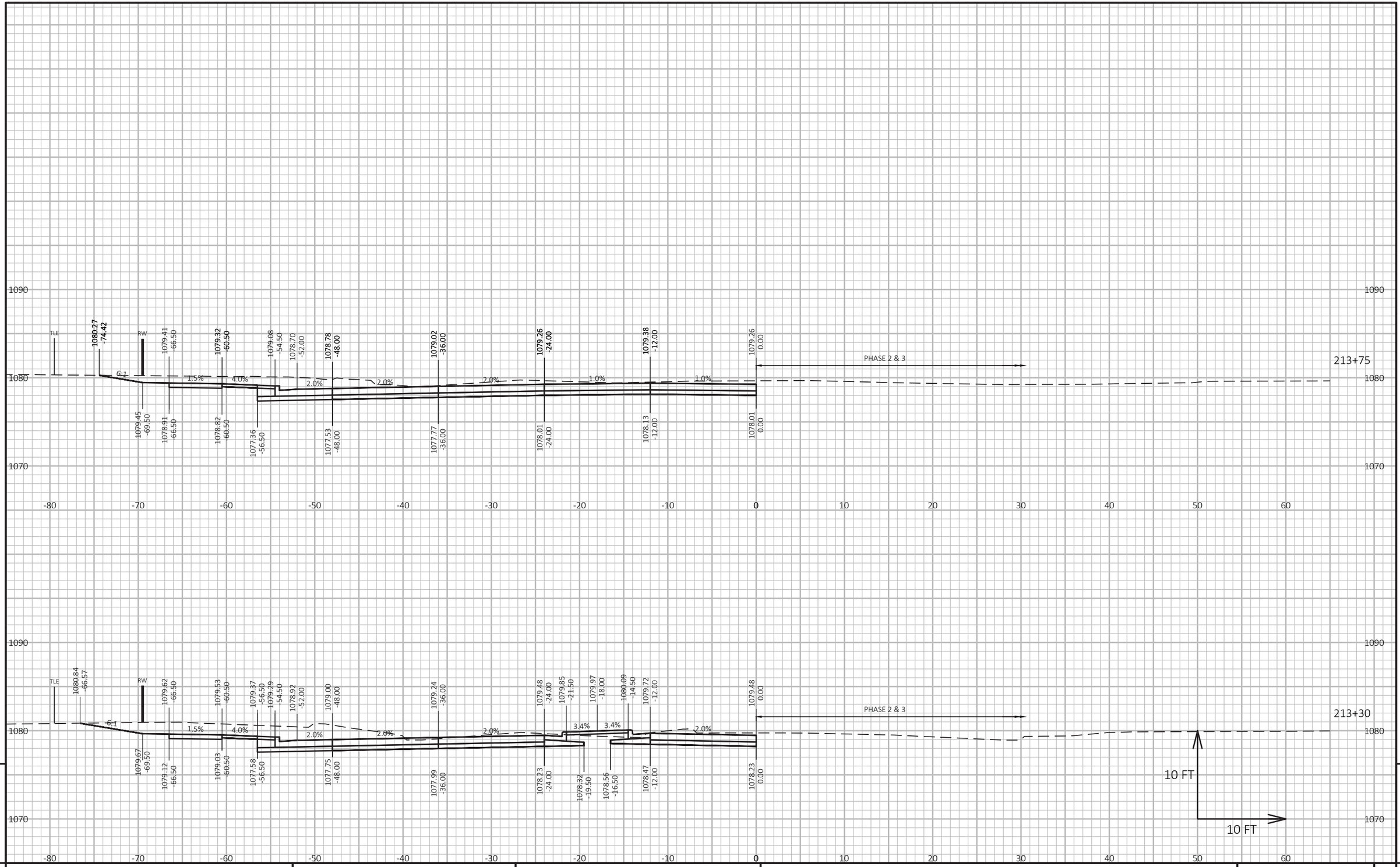


PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 349	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (34)

PLOT DATE : 10/23/2020 8:01 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 350	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
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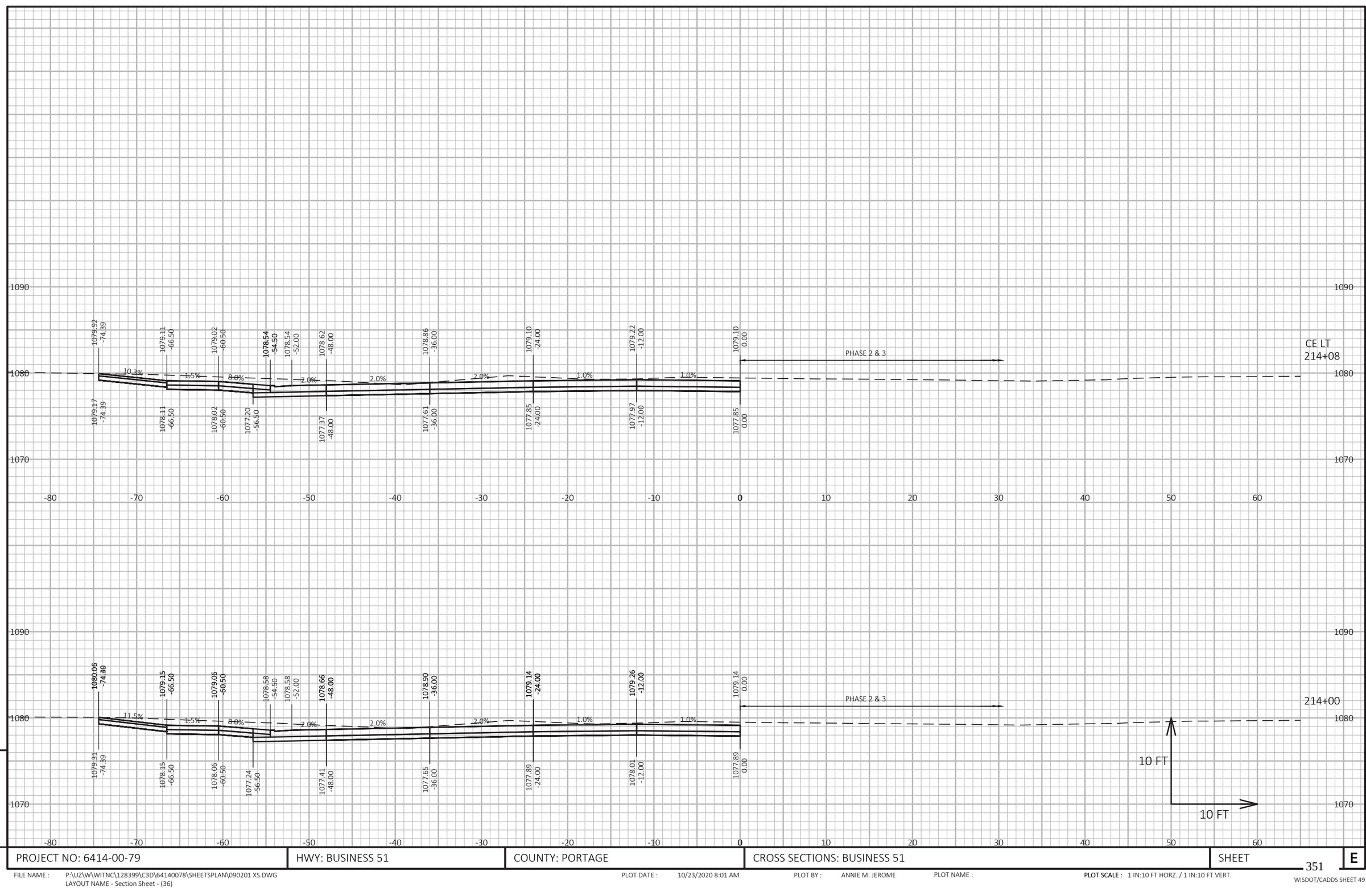
PLOT DATE : 10/23/2020 8:01 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 351	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (36)

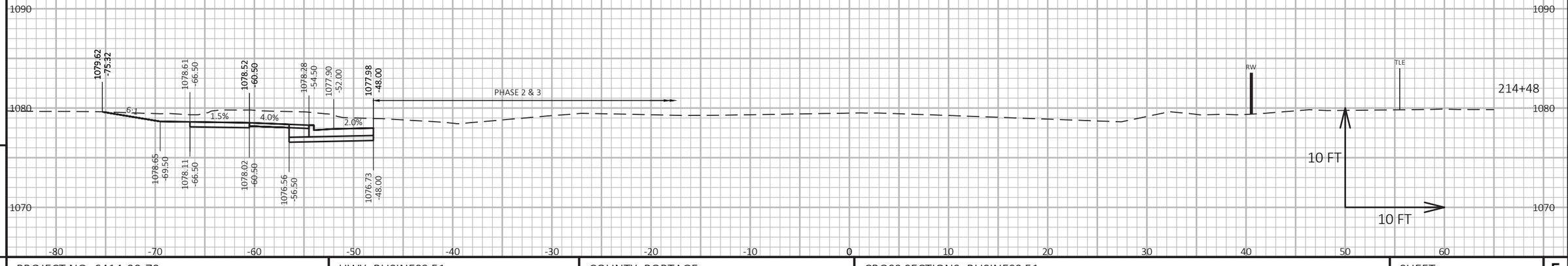
PLOT DATE : 10/23/2020 8:01 AM

PLOT BY : ANNIE M. JEROME

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

END PROJECT
STA 214+37.79



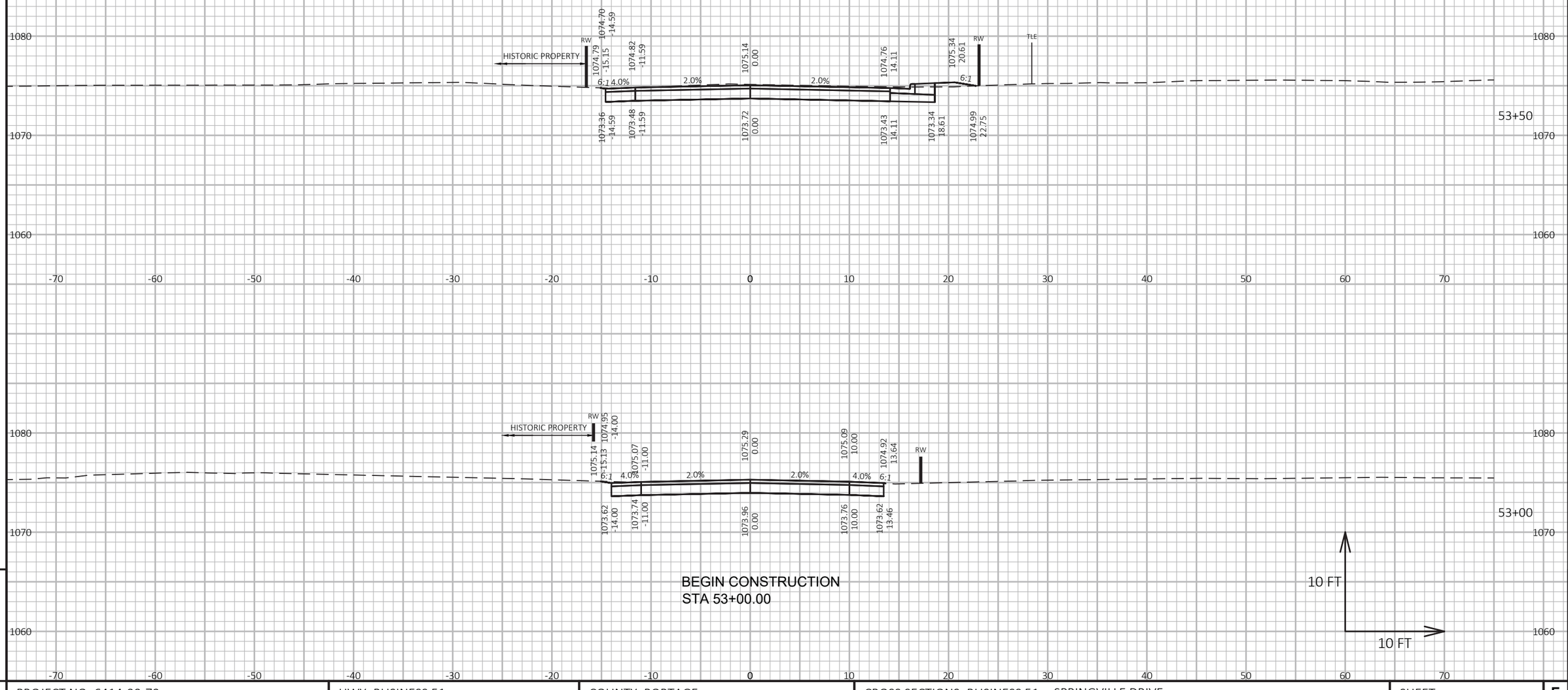
9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51	SHEET 352	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090201 XS.DWG
LAYOUT NAME - Section Sheet - (37)

PLOT DATE : 10/23/2020 8:01 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

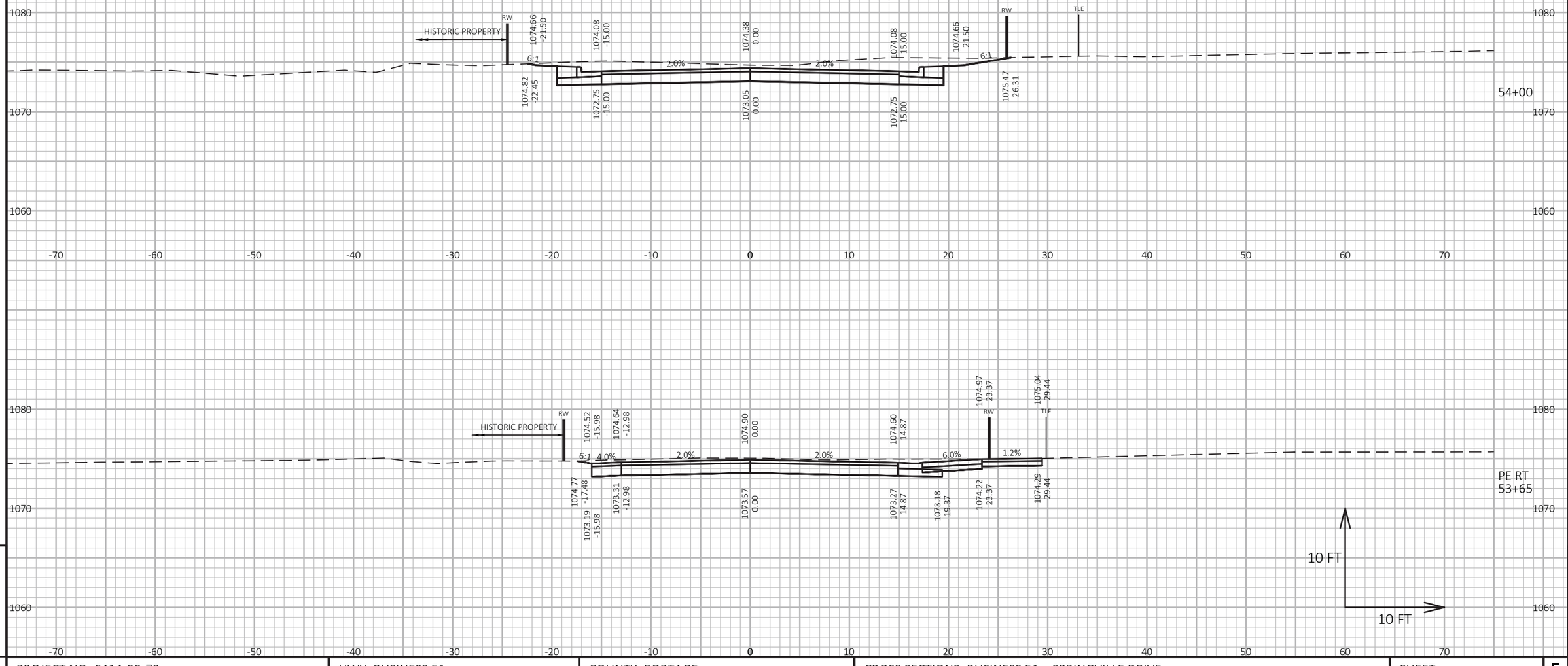
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PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51 - SPRINGVILLE DRIVE	SHEET 353	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090202 XS.DWG
LAYOUT NAME - Springville - (1)

PLOT DATE : 10/23/2020 8:02 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

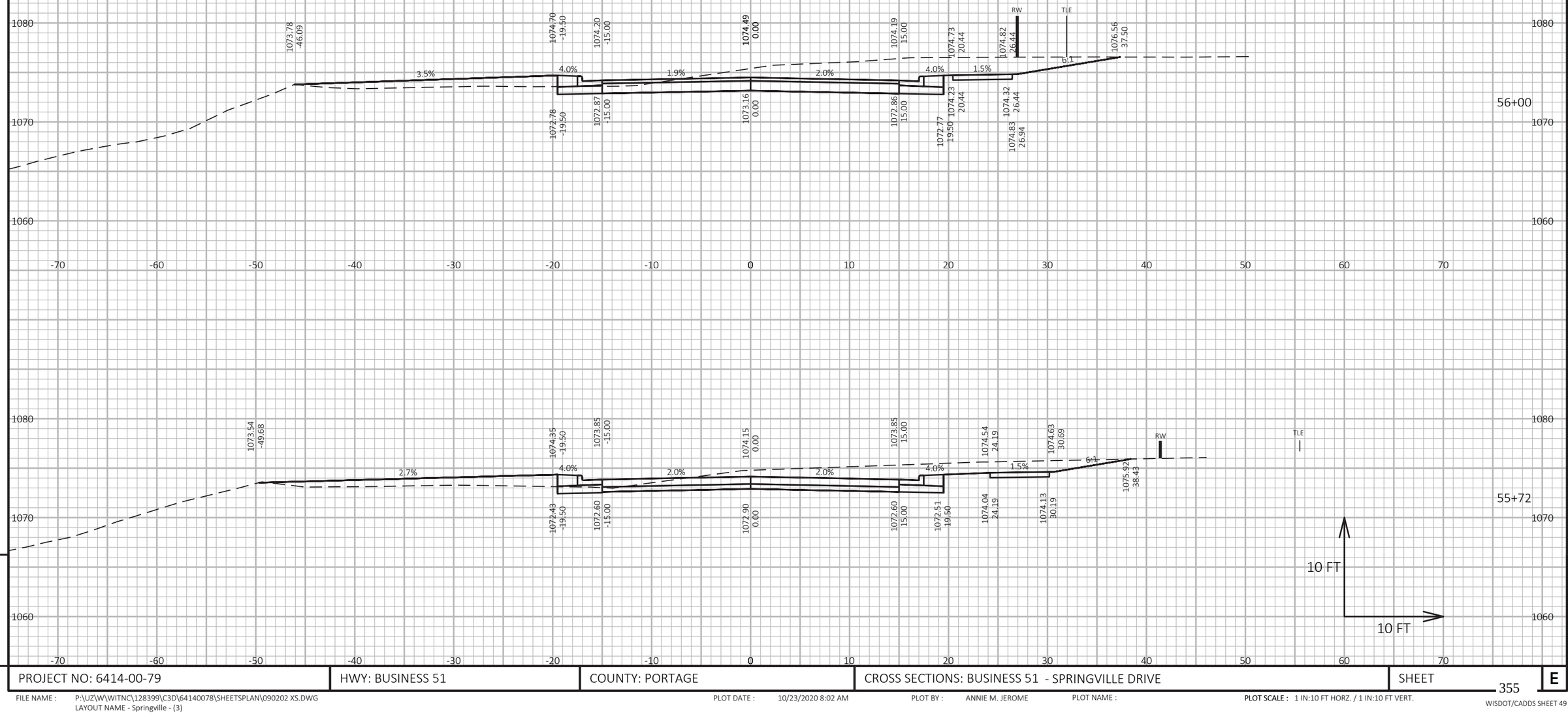
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PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51 - SPRINGVILLE DRIVE	SHEET 354	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090202 XS.DWG
LAYOUT NAME - Springville - (2)

PLOT DATE : 10/23/2020 8:02 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

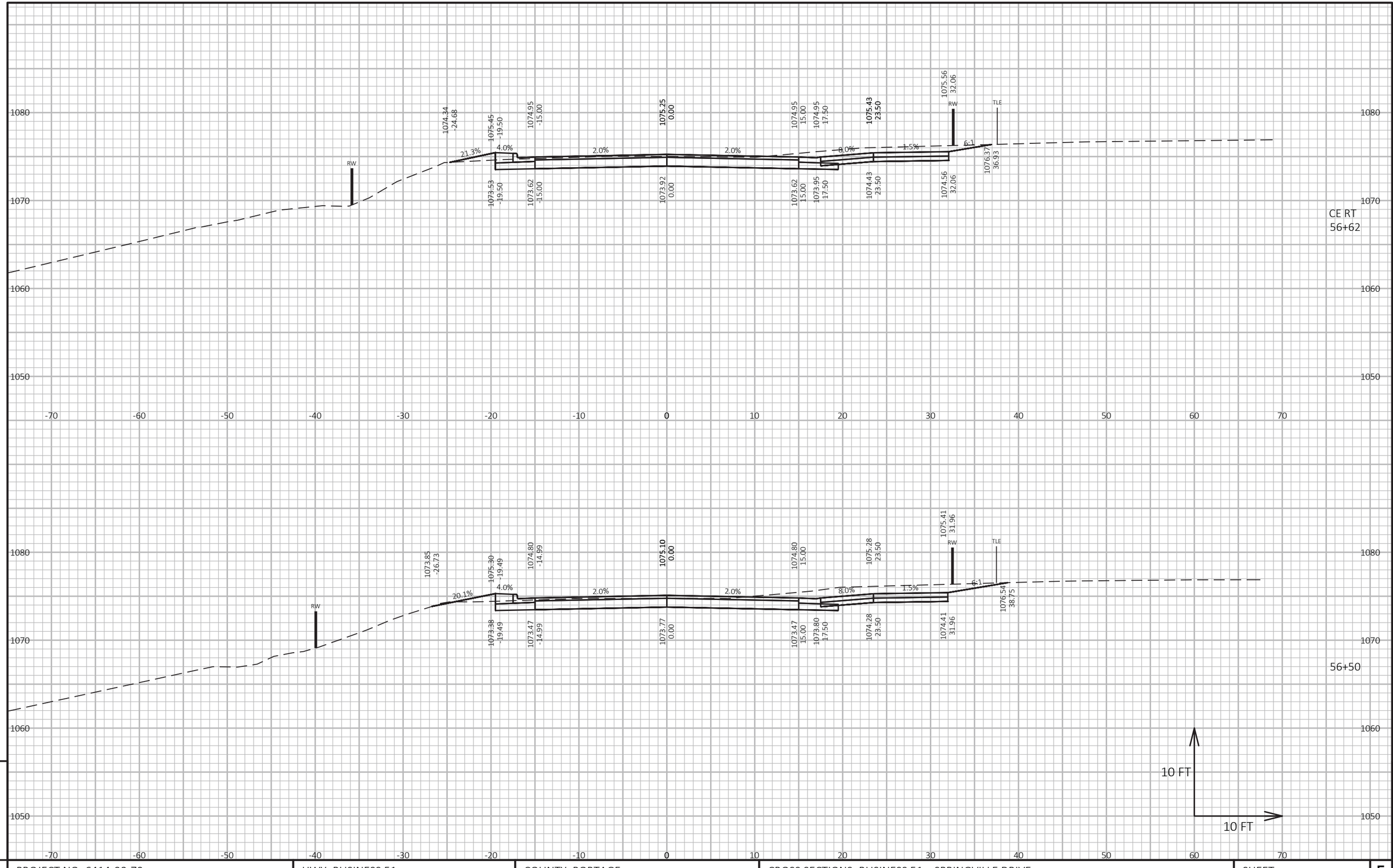


PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51 - SPRINGVILLE DRIVE	SHEET 355	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090202 XS.DWG
LAYOUT NAME - Springville - (3)

PLOT DATE : 10/23/2020 8:02 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

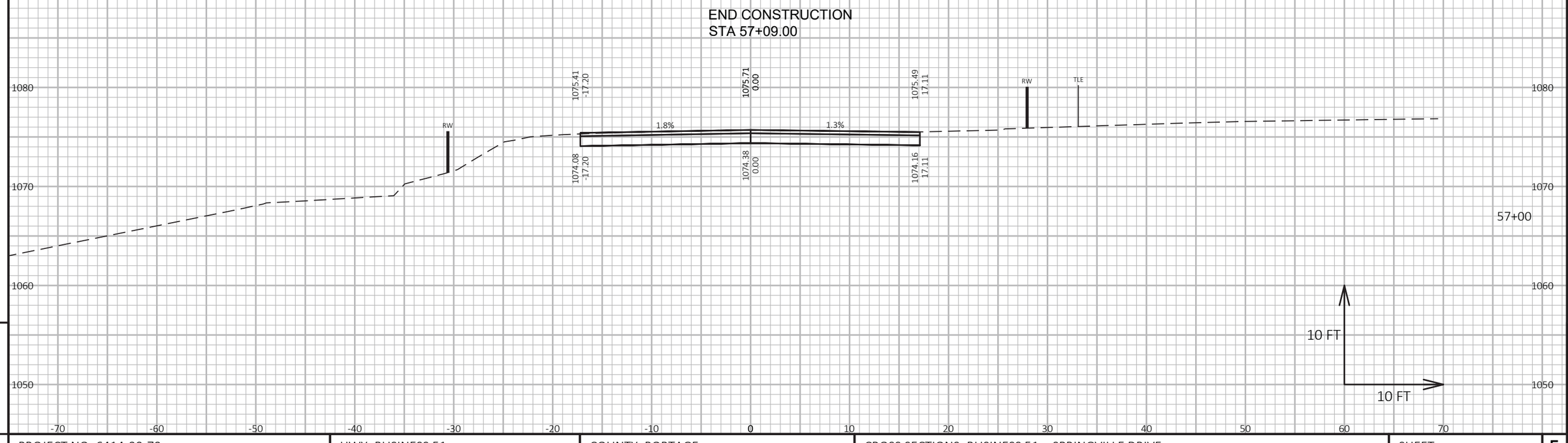
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51 - SPRINGVILLE DRIVE	SHEET 356	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090202 XS.DWG
LAYOUT NAME - Springville - (4)

PLOT DATE : 10/23/2020 8:02 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

END CONSTRUCTION
STA 57+09.00



9

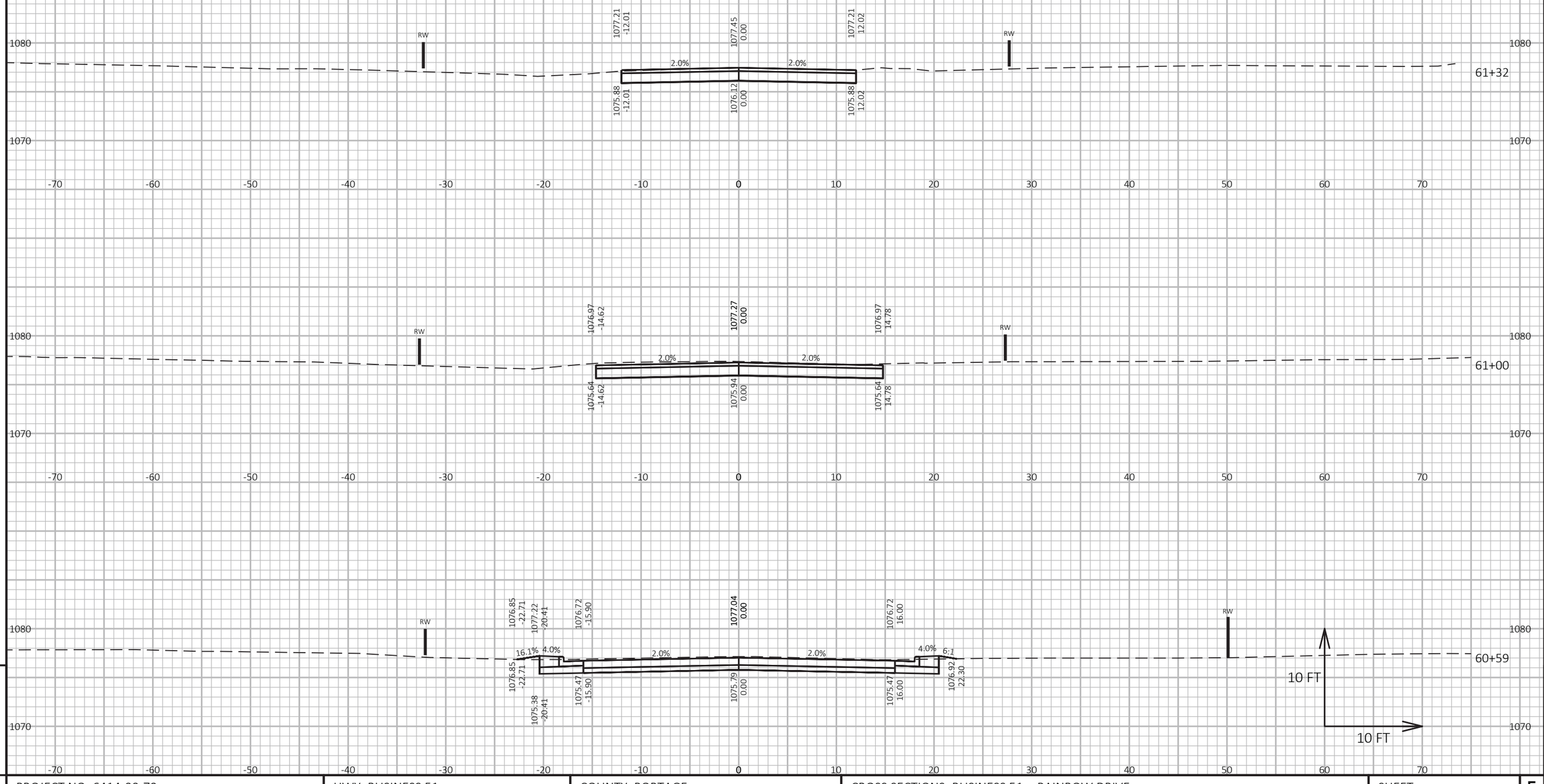
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PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51 - SPRINGVILLE DRIVE	SHEET 357	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090202 XS.DWG
LAYOUT NAME - Springville - (5)

PLOT DATE : 10/23/2020 8:02 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

END CONSTRUCTION
STA 61+32.20



9

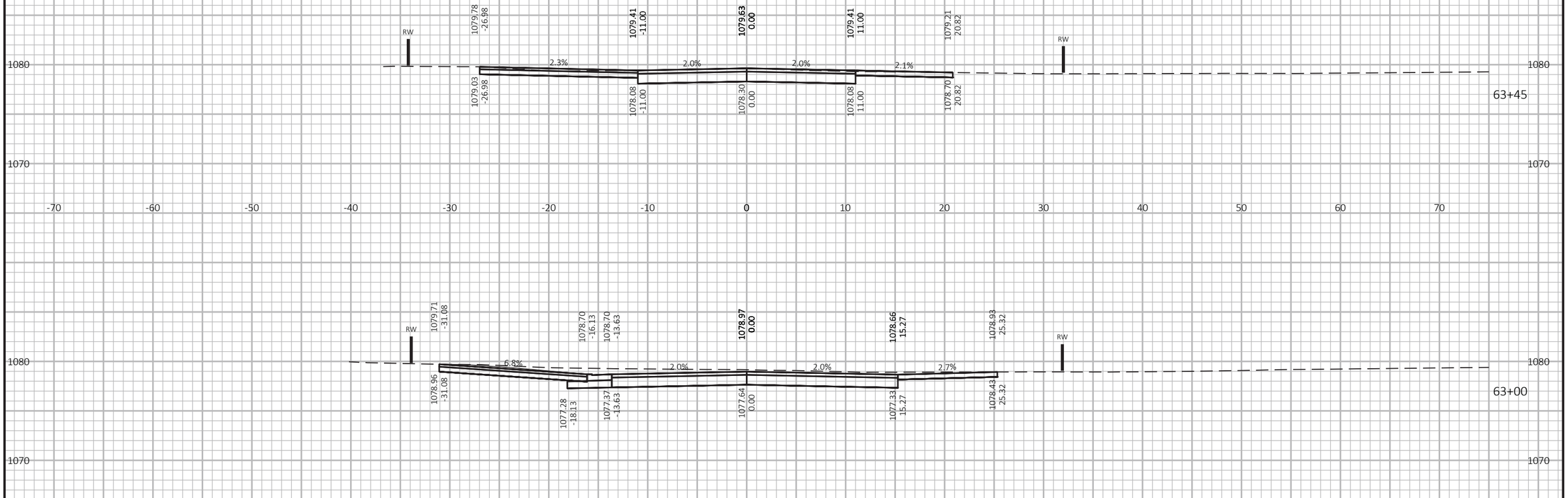
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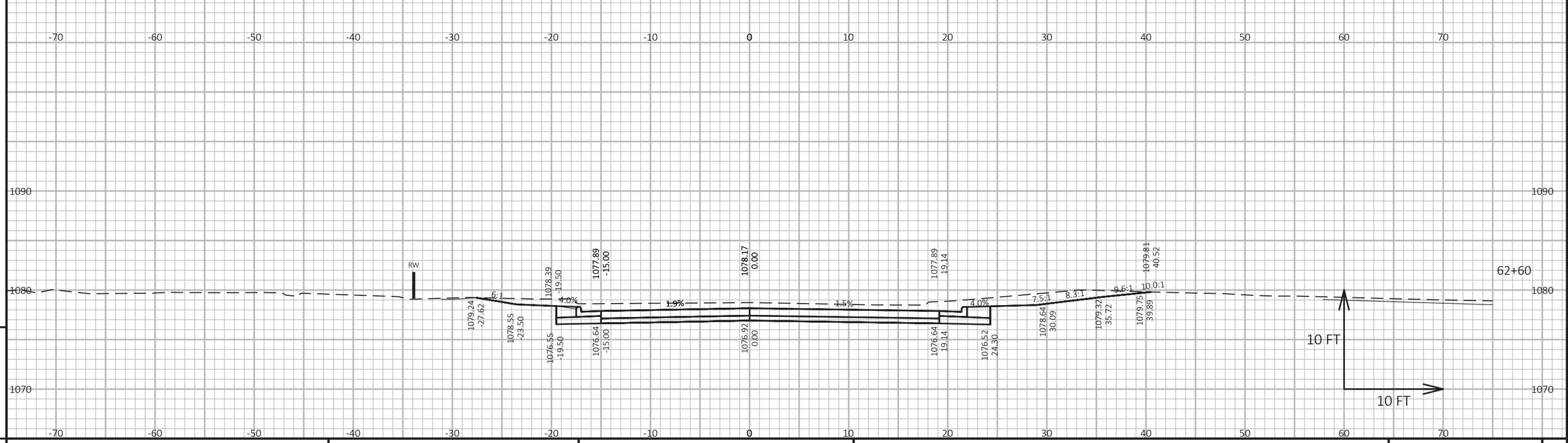
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51 - RAINBOW DRIVE	SHEET 358	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090202 XS.DWG
LAYOUT NAME - Rainbow - (6)

PLOT DATE : 10/23/2020 8:03 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

END CONSTRUCTION
STA 63+45.00





PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51 - ROBERTS ROAD	SHEET 359	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090202 XS.DWG
LAYOUT NAME - Roberts - (7)

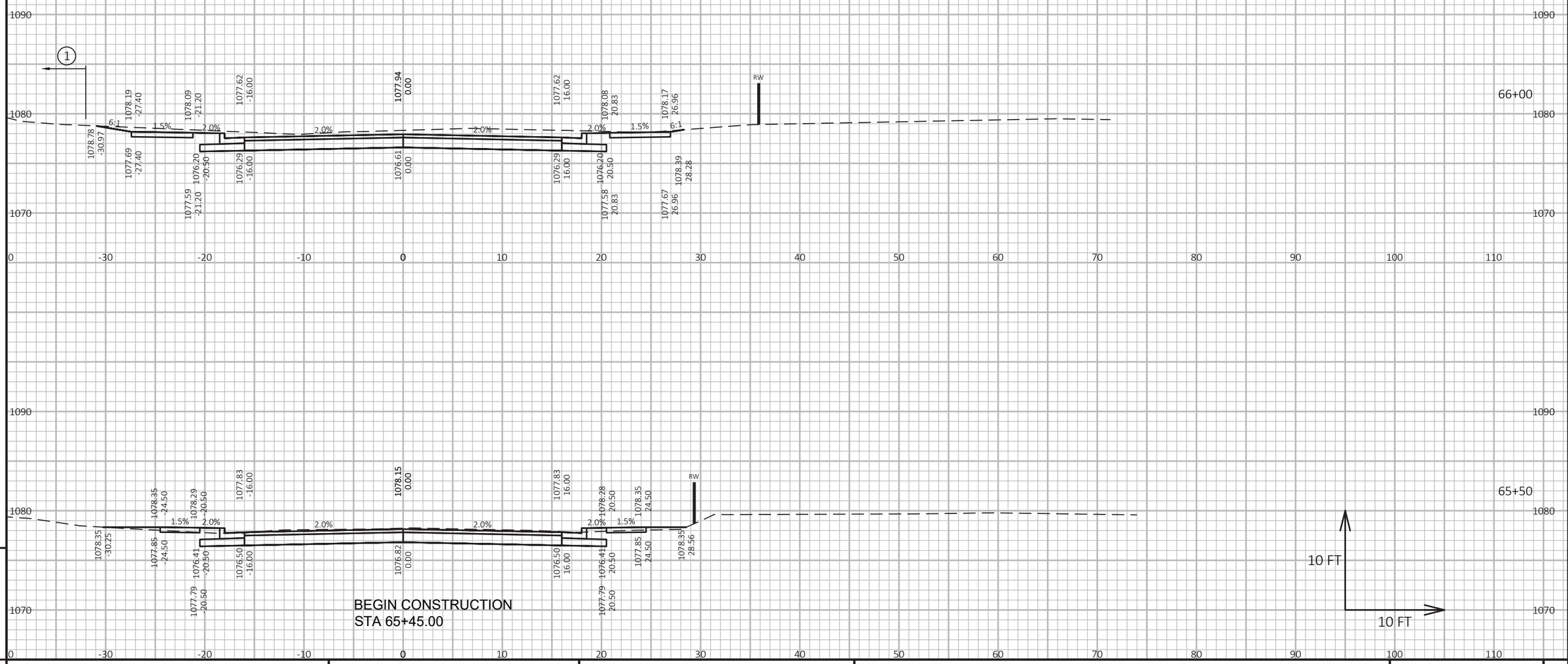
PLOT DATE : 10/23/2020 8:03 AM PLOT BY : ANNIE M. JEROME PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

NOTES

1 SEE CONSTRUCTION DETAILS FOR INFILTRATION BASINS



9 9

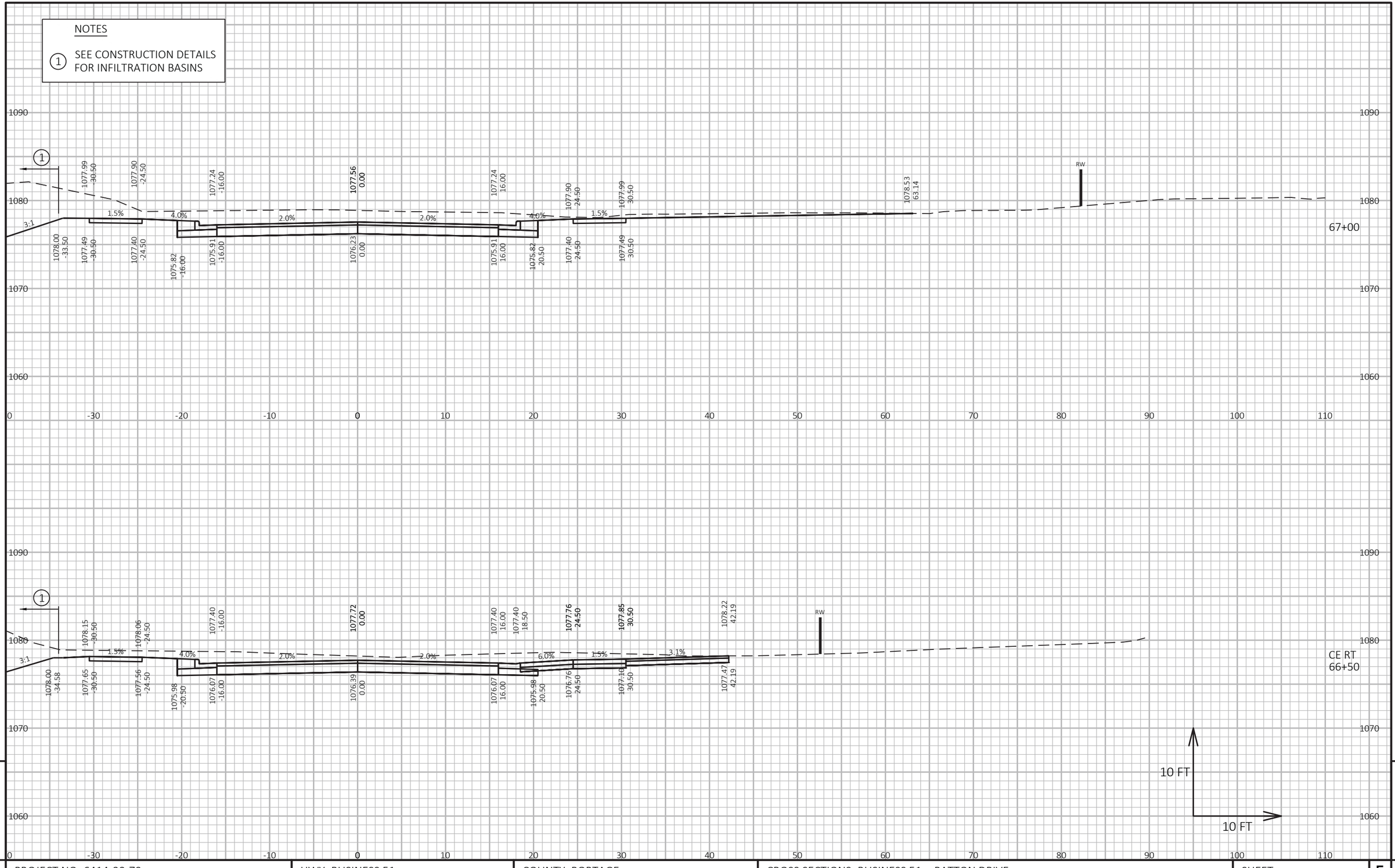
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51 - PATTON DRIVE	SHEET 360	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090202 XS.DWG
LAYOUT NAME - Patton - (8)

PLOT DATE : 10/23/2020 8:03 AM PLOT BY : ANNIE M. JEROME PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

NOTES

1 SEE CONSTRUCTION DETAILS FOR INFILTRATION BASINS



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51 - PATTON DRIVE	SHEET 361	E

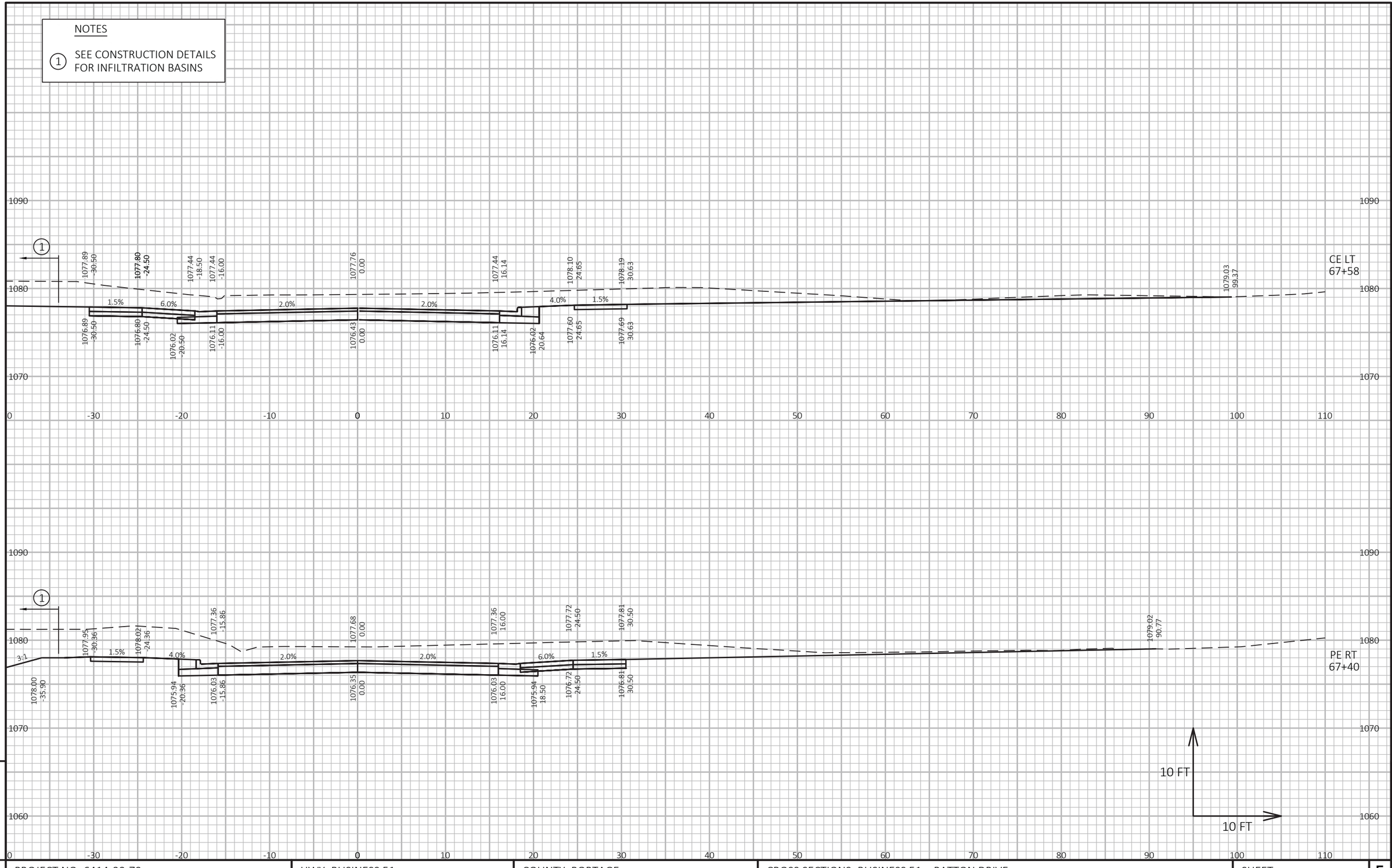
FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090202 XS.DWG
LAYOUT NAME - Patton (9)

PLOT DATE : 10/23/2020 8:03 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

NOTES

1 SEE CONSTRUCTION DETAILS FOR INFILTRATION BASINS



9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51 - PATTON DRIVE	SHEET 362	E

9

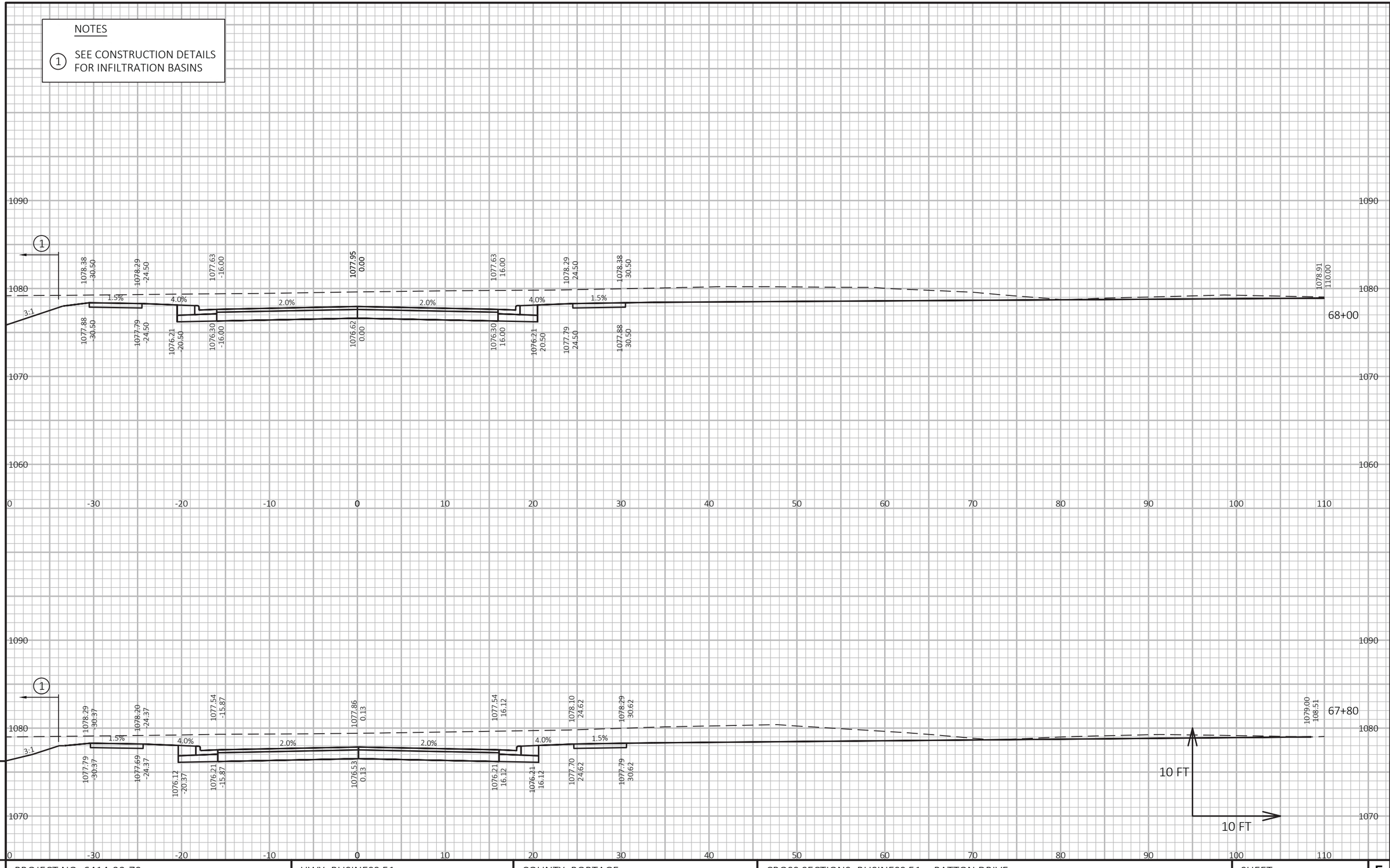
FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090202 XS.DWG
LAYOUT NAME - Patton (10)

PLOT DATE : 10/23/2020 8:03 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

NOTES

1. SEE CONSTRUCTION DETAILS FOR INFILTRATION BASINS



9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51 - PATTON DRIVE	SHEET 363	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090202 XS.DWG
LAYOUT NAME - Patton (11)

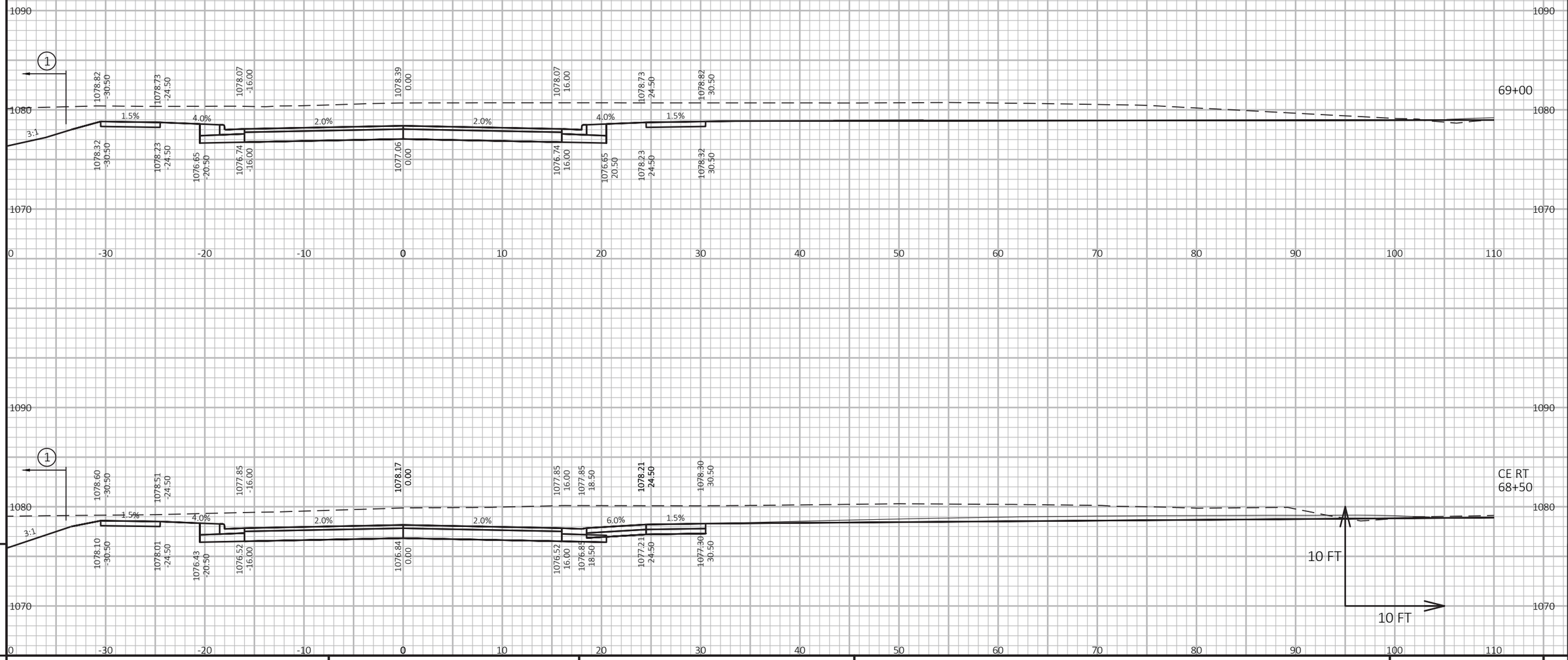
PLOT DATE : 10/23/2020 8:03 AM PLOT BY : ANNIE M. JEROME PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

NOTES

(1) SEE CONSTRUCTION DETAILS FOR INFILTRATION BASINS



PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51 - PATTON DRIVE	SHEET 364	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090202 XS.DWG
LAYOUT NAME - Patton (12)

PLOT DATE : 10/23/2020 8:03 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9

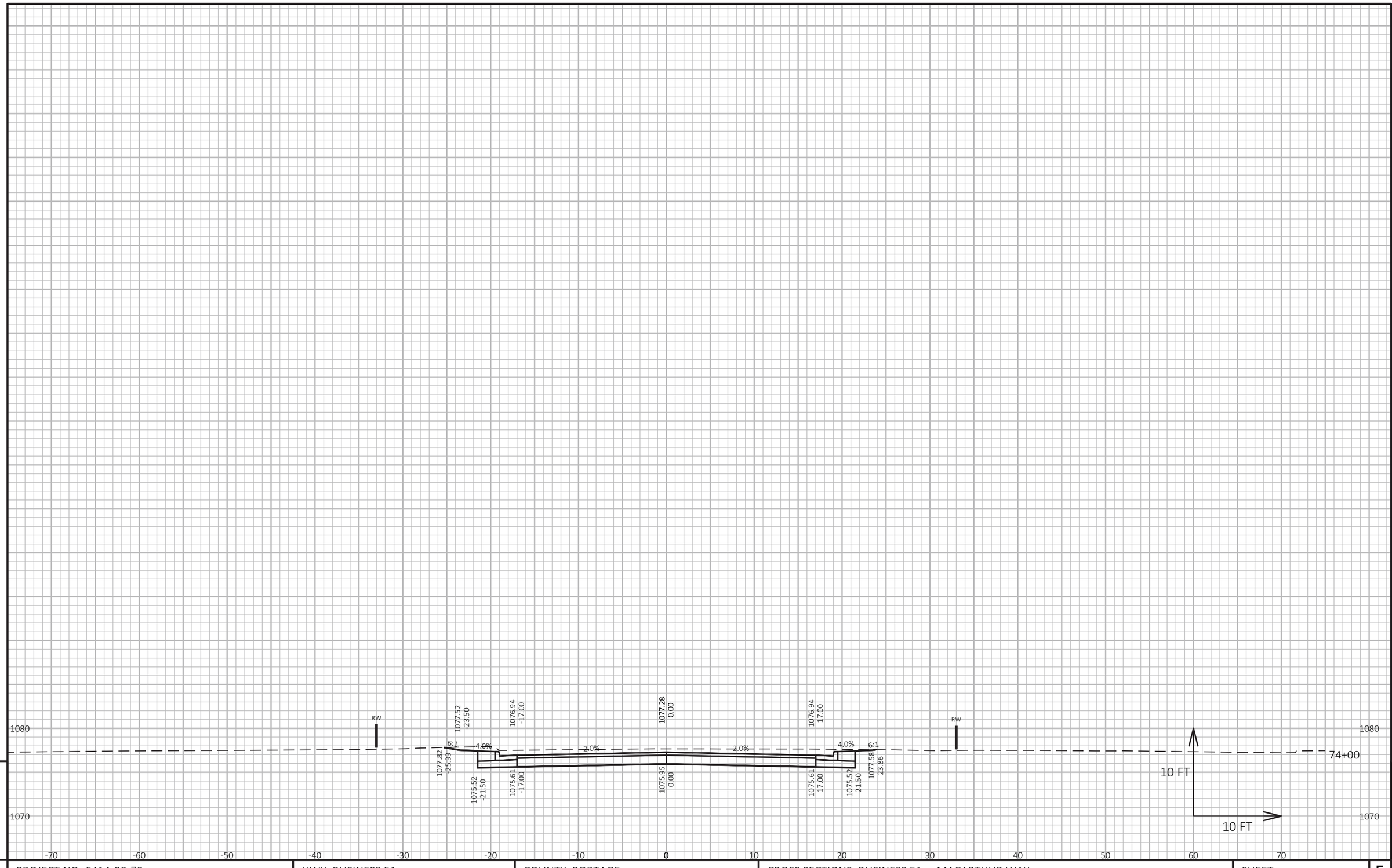
PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51 - MCARTHUR WAY	SHEET 365	E

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FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090202 XS.DWG
LAYOUT NAME - MACARTHUR 01

PLOT DATE : 10/23/2020 8:03 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 6414-00-79	HWY: BUSINESS 51	COUNTY: PORTAGE	CROSS SECTIONS: BUSINESS 51 - MACARTHUR WAY	SHEET 366	E

FILE NAME : P:\UZ\W\WITNC\128399\C3D\64140078\SHEETSPLAN\090202 XS.DWG
LAYOUT NAME - MACARTHUR 02

PLOT DATE : 10/23/2020 8:03 AM PLOT BY : ANNIE M. JEROME PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

WIS FEBRUARY 2021

PROJECT ID: 6414-00-89

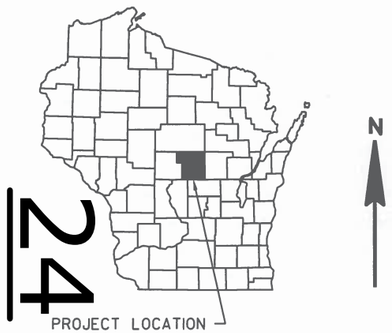
WITH: 6414-00-79

COUNTY: PORTAGE

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 = 20



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

VILLAGE OF PLOVER, POST ROAD

SPRINGVILLE DRIVE - TOMMY'S TURNPIKE

BUSINESS 51

PORTAGE COUNTY

STATE PROJECT NUMBER
6414-00-89

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6414-00-89	———	———

DESIGN DESIGNATION

A.A.D.T.	2018	=	13,000
A.A.D.T.	2038	=	15,200
D.H.V.		=	1,690
D.D.		=	59/41
T.		=	6.7 %
DESIGN SPEED		=	40 MPH
ESALS		=	3,275,750

CONVENTIONAL SYMBOLS

PLAN

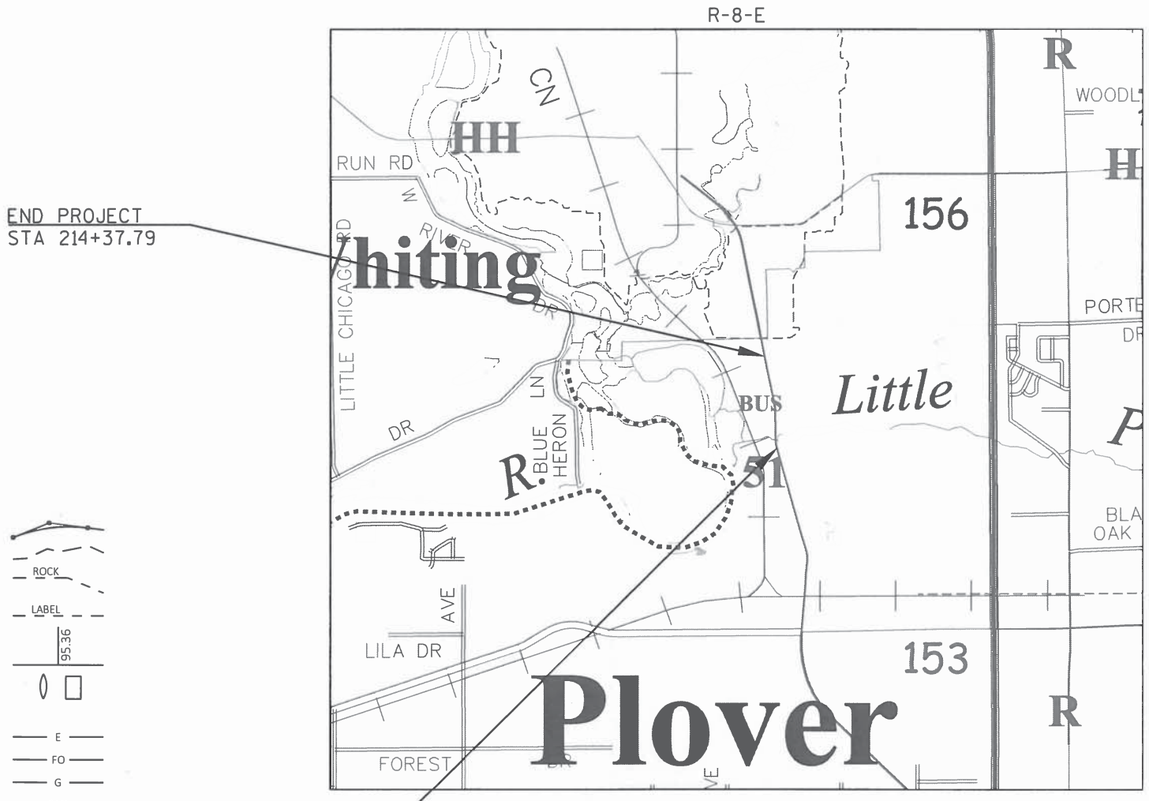
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

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



TOTAL NET LENGTH OF CENTERLINE = 0.000 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), PORTAGE COUNTY NAD 83 (2011).

ELEVATIONS ON THIS PLAN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NAVD 88).

ACCEPTED FOR VILLAGE OF PLOVER

10/14/20 (Date) (Signature)

ORIGINAL PLANS PREPARED BY

AECOM

WISCONSIN
RYAN N. BARZ
E-37634
AMHERST
WI
PROFESSIONAL ENGINEER

10/14/20 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	SEH
Designer	AECOM
Project Manager	Jeff Stewart
Regional Examiner	Cheryl Simon
Regional Supervisor	Nichole Lysne

APPROVED FOR THE DEPARTMENT

DATE: 10/28/2020 (Signature)

E

FILE NAME : L:\WORK\PROJECTS\66136\TASK_139_BUSINESS 51 PH 4 UTIL DESIGN\64140079\SHEETSPLAN\0101-TI.DWG PLOT DATE : 8/27/2019 8:49 AM PLOT BY : WIEDERIN, NICHOLAS PLOT NAME :

2

2

GENERAL NOTES

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

UTILITY CONTACTS

CHUCK BARTELT
AT&T WISCONSIN-COMMUNICATIONS LINE
70 DIVISION STREET
FOND DU LAC, WI 54935
920-929-1013 (OFFICE)
920-410-5104 (MOBILE)
CBL1461@ATT.COM

RICH BODEN
VILLAGE OF PLOVER-SEWER
PO BOX 37
PLOVER, WI 54467
715-345-5259 (OFFICE)
715-340-2417 (MOBILE)
RBODEN@PLOVERWI.GOV

RUDI RUDIGER
CHARTER COMMUNICATIONS-COMMUNICATION LINE
5024 HEFFRON STREET
STEVENS POINT, WI 54481
715-204-5339
RUDI.RUDIGER@CHARTER.COM

MATT SALOUN
VILLAGE OF PLOVER-WATER
PO BOX 37
PLOVER, WI 54467
715-345-5254 (OFFICE)
715-347-9463 (MOBILE)
MSALOUN@PLOVERWI.GOV

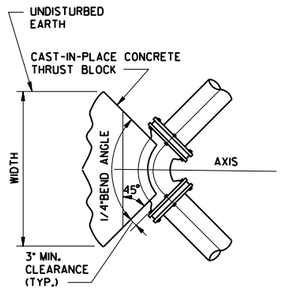
DON LUTZOW
WISCONSIN PUBLIC SERVICE CORPORATION-ELECTRICITY
1700 SHERMAN STREET
PO BOX 1166
WAUSAU, WI 54402
715-848-7487 (OFFICE)
715-493-7802 (MOBILE)
DALUTZOW@WISCONSINPUBLICSERVICE.COM

MATT CURTIN
WISCONSIN PUBLIC SERVICE CORPORATION-GAS/PETROLEUM
PO BOX 1166
WAUSAU, WI 54402
715-848-7463 (OFFICE)
715-493-0050 (MOBILE)
MJCURTIN@WISCONSINPUBLICSERVICE.COM

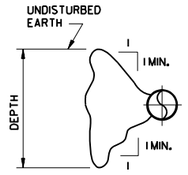
DNR CONTACT

CASEY JONES
WISCONSIN RAPIDS SERVICE CENTER
473 GRIFFITH AVENUE
WISCONSIN RAPIDS, WI 54494
715-213-6571
CASEY.JONES@WISCONSIN.GOV

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



PLAN



SECTION

NOTE:
THE BELOW TABLE BASED ON SOIL EQUIVALANT TO SAND AND GRAVEL CEMENTED WITH CLAY. FOR OTHER SOILS USE THE FOLLOWING FACTORS:

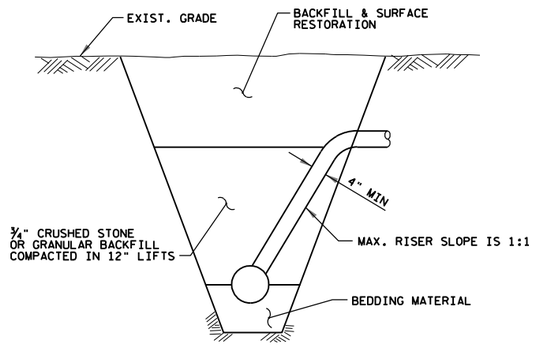
SOFT CLAY	4.00
SAND	2.00
SAND AND GRAVEL	1.33
SHALE	0.40

AREA OF FACE CONCRETE THRUST BLOCKS

PIPE SIZES INCHES	1/6 BEND SQ. FT.	1/6 BEND SQ. FT.	TEES PLUGS, CAPS, & HYDRANTS SQ. FT.
6	5	3	4
8	8	5	6
10	13	7	9
12	15	10	13
14	25	14	18

THRUST RESTRAINT DETAIL

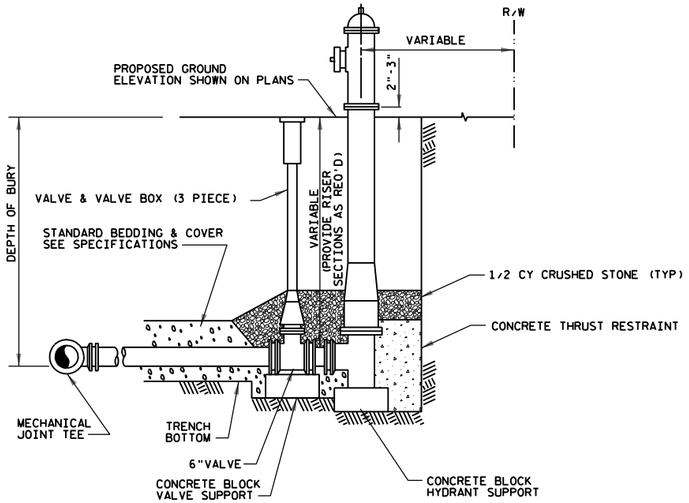
NTS



NOTE:
RISER PIPE SHALL MATCH LATERAL MATERIAL

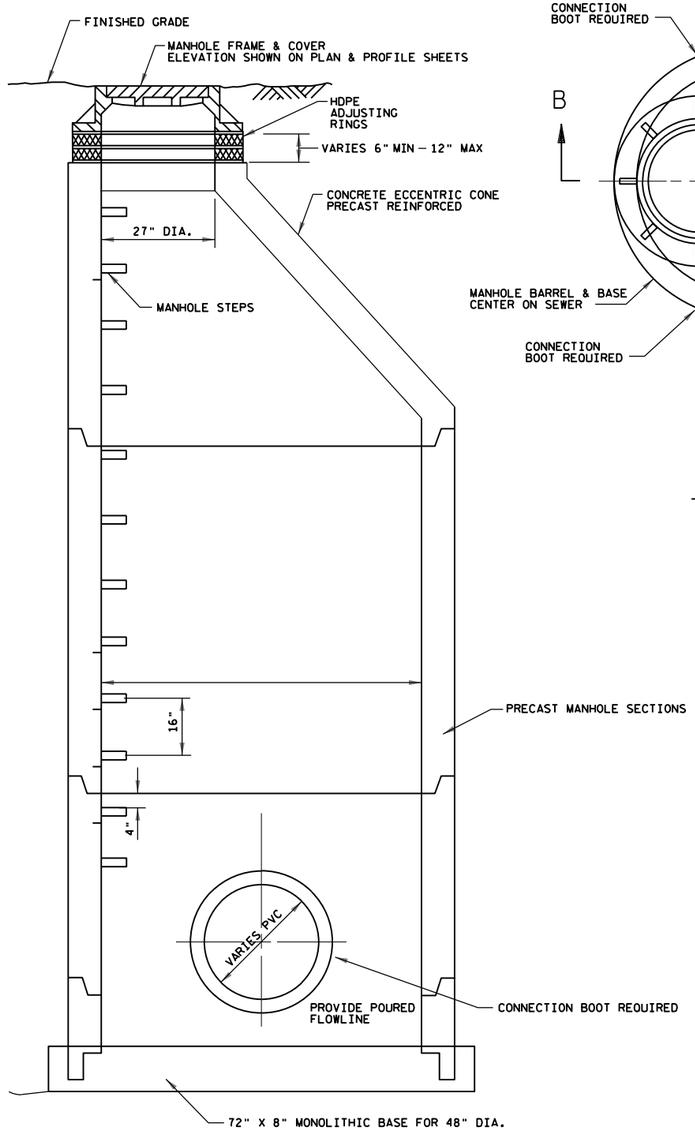
RISER DETAIL

NTS

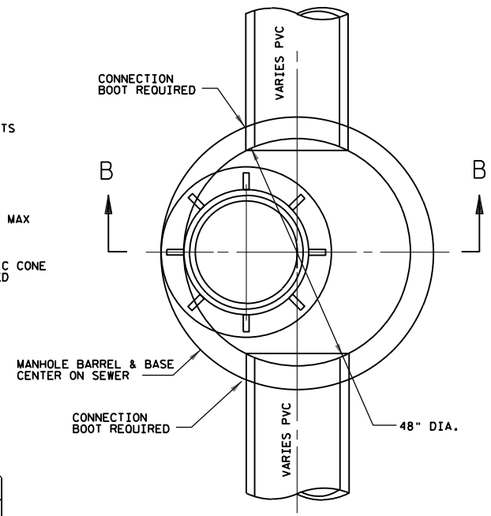


TYPICAL HYDRANT DETAIL

NTS



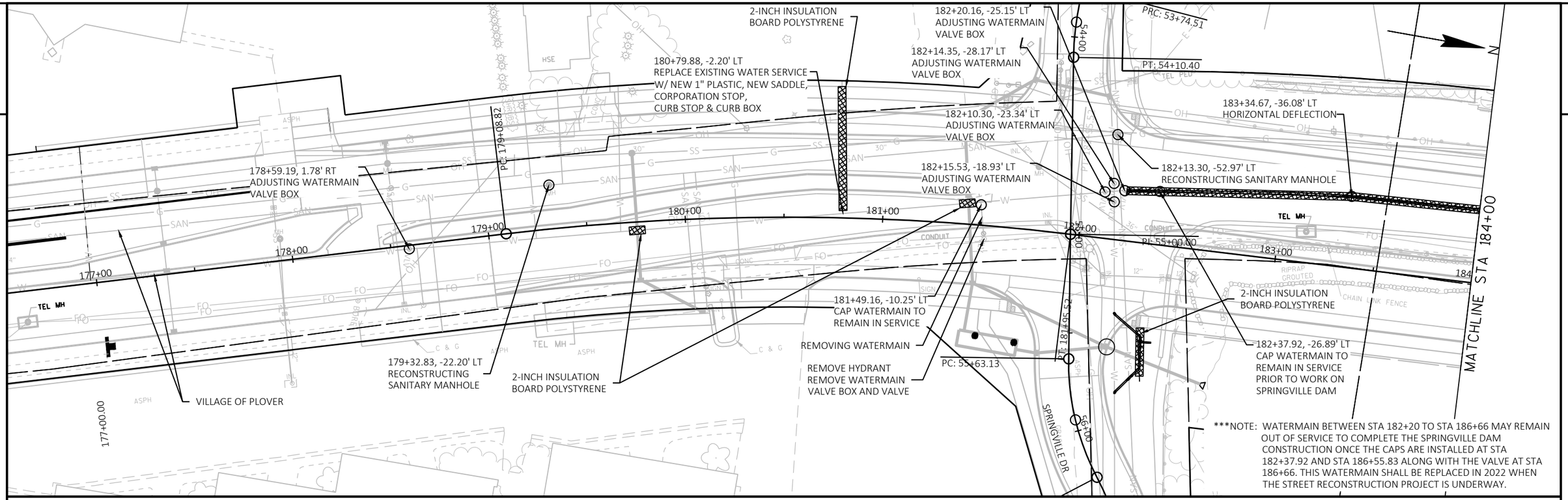
SECTION VIEW B
NTS



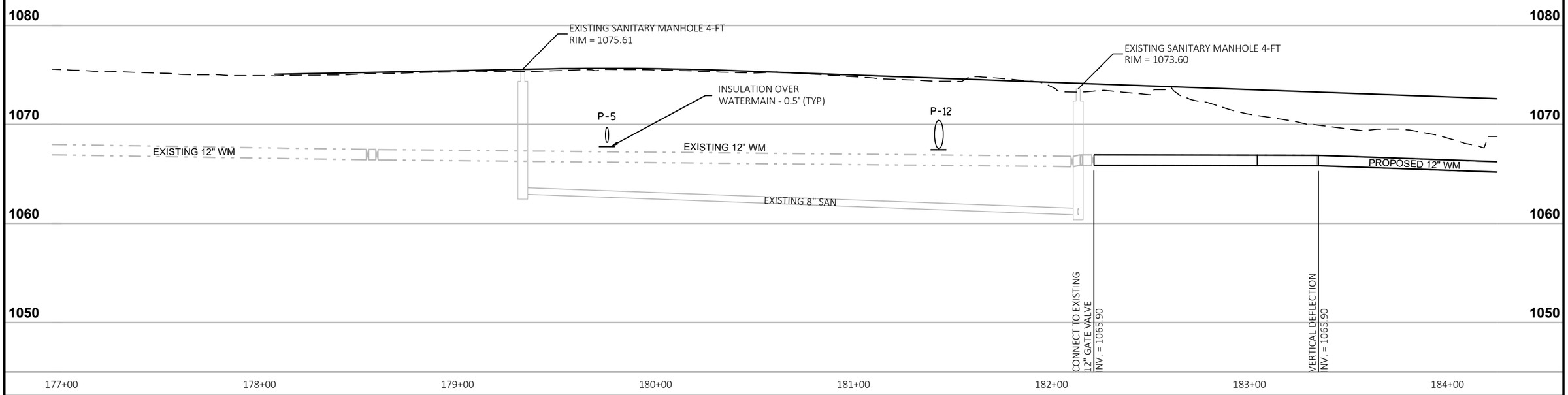
PLAN VIEW
NTS

48" SANITARY MANHOLE
NTS

2

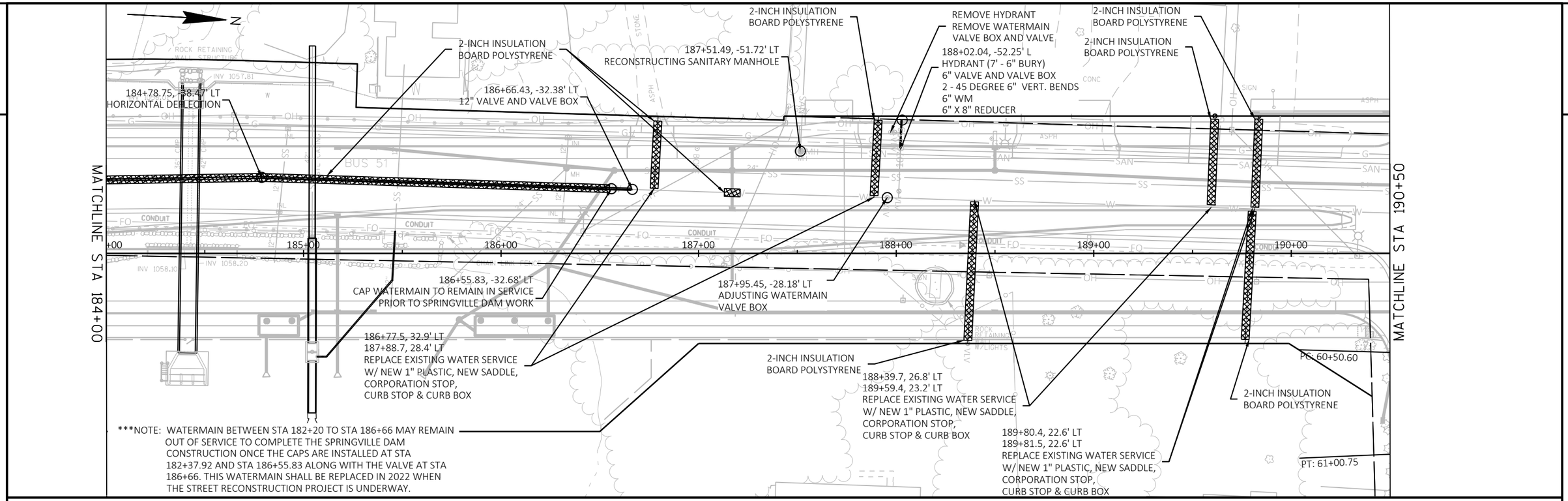


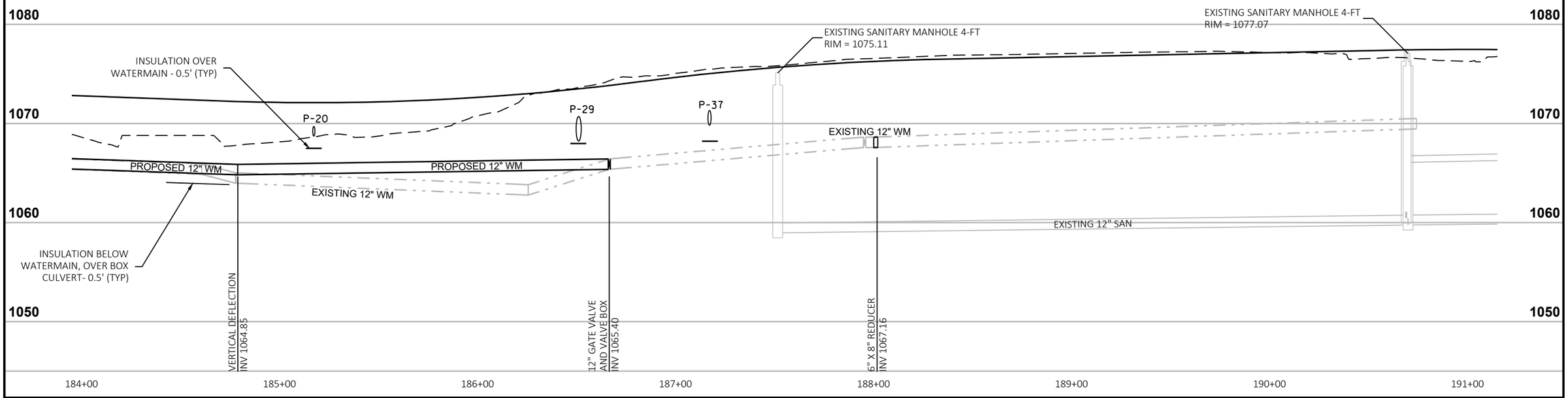
***NOTE: WATERMAIN BETWEEN STA 182+20 TO STA 186+66 MAY REMAIN OUT OF SERVICE TO COMPLETE THE SPRINGVILLE DAM CONSTRUCTION ONCE THE CAPS ARE INSTALLED AT STA 182+37.92 AND STA 186+55.83 ALONG WITH THE VALVE AT STA 186+66. THIS WATERMAIN SHALL BE REPLACED IN 2022 WHEN THE STREET RECONSTRUCTION PROJECT IS UNDERWAY.



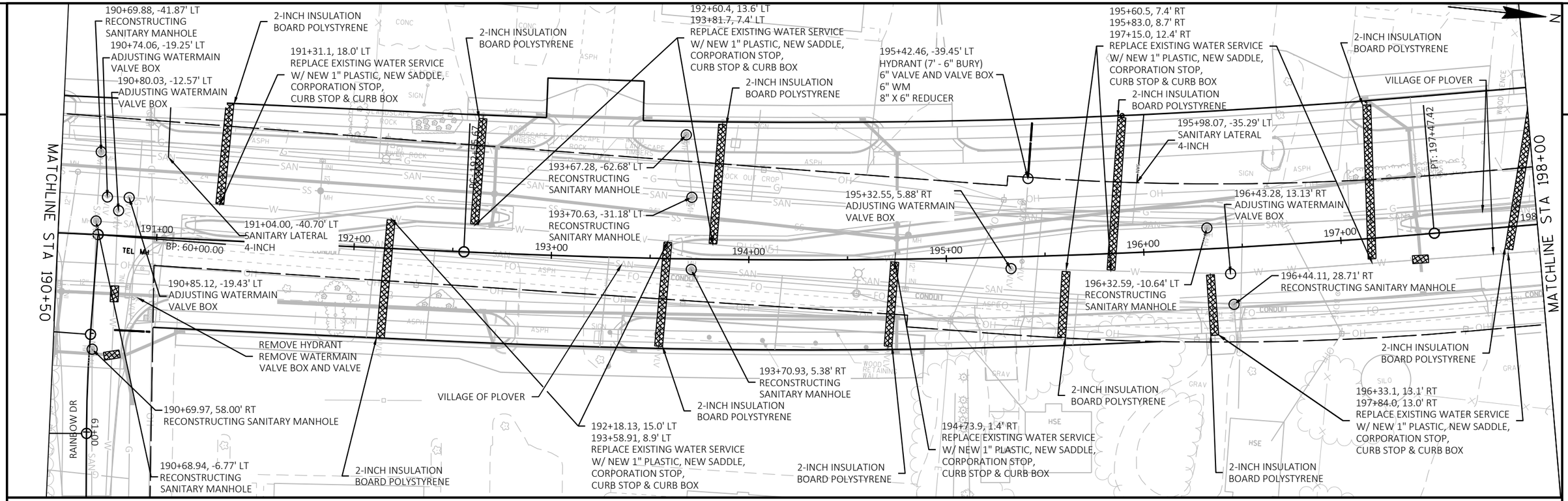
PROJECT NO: 6414-00-89	HWY: BUSINESS 51	COUNTY: PORTAGE	UTILITY IMPROVEMENTS	SHEET 5	E

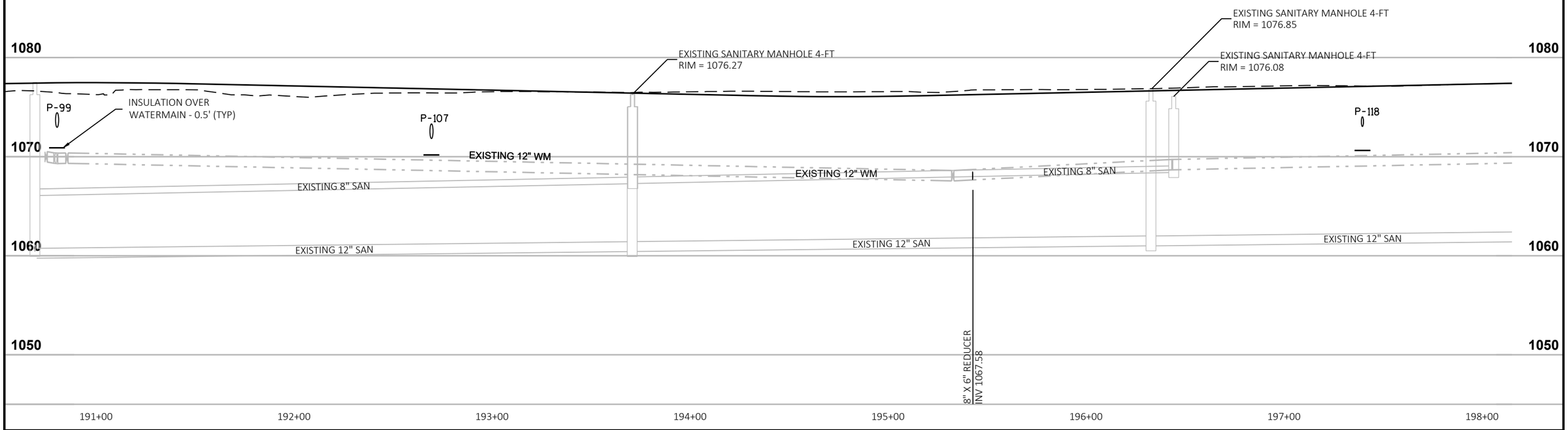
FILE NAME : C:\ONEDRIVE\ONEDRIVE - AECOM DIRECTORY\BUS.51-PHASE4\64140079\SHEETSPLAN\0230_UP.DWG
LAYOUT NAME - 0230-(01)
PLOT DATE : 10/29/2020 10:02 PM PLOT BY : WIEDERIN, NICHOLAS PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44





PROJECT NO: 6414-00-89	HWY: BUSINESS 51	COUNTY: PORTAGE	UTILITY IMPROVEMENTS	SHEET 6	E





PROJECT NO: 6414-00-89	HWY: BUSINESS 51	COUNTY: PORTAGE	UTILITY IMPROVEMENTS	SHEET 7	E

2

N

HSE

MATCHLINE STA 198+00

MATCHLINE STA 205+00

2-INCH INSULATION BOARD POLYSTYRENE

198+46.53, -6.56' LT
RECONSTRUCTING
SANITARY MANHOLE

200+50.06, -5.96' LT
RECONSTRUCTING
SANITARY MANHOLE

200+42.7, 15.4' RT
201+26.9, 16.2' RT
REPLACE EXISTING WATER SERVICE
W/ NEW 1" PLASTIC, NEW SADDLE,
CORPORATION STOP,
CURB STOP & CURB BOX

2-INCH INSULATION
BOARD POLYSTYRENE

M-1 STA 203+25, 7.3' L
SANITARY DROP MH 4-FT DIA-J-SPECIAL

ABANDON WATERMAIN
REMOVE HYDRANT
REMOVE WATERMAIN
VALVE BOX AND VALVE

PLUG WATERMAIN
ABANDONED IN PLACE

2-INCH INSULATION
BOARD POLYSTYRENE

PATTON DR

PT: 68+94.80
204+78.6, 15.0' RT
REPLACE EXISTING WATER SERVICE
W/ NEW 1" PLASTIC, NEW SADDLE,
CORPORATION STOP,
CURB STOP & CURB BOX

202+56.19, -9.38' LT
WATERMAIN BEND
11-¼ DEGREE 12-INCH

204+26.08, -7.27' LT
RECONSTRUCTING
SANITARY MANHOLE

REMOVING WATERMAIN
VALVE BOX AND VALVE

199+00 200+00 201+00 202+00 203+00 204+00 205

BP: 62+00.00

EP: 70+00.00

CAP WATERMAIN
TO REMAIN IN PLACE

199+91.93, 14.90' RT
ADJUSTING WATERMAIN
VALVE BOX

202+53.71, 15.82' RT
12" X 12" TAPPING SLEEVE
12" WM

8" San

200+71.05, 16.44' RT
ADJUSTING WATERMAIN
VALVE BOX

198+60.0, 14.6' RT
199+10.9, 13.6' RT
199+91.9, 14.9' RT
REPLACE EXISTING WATER SERVICE
W/ NEW 1" PLASTIC, NEW SADDLE,
CORPORATION STOP,
CURB STOP & CURB BOX

200+66.68, 19.36' RT
REMOVING WATERMAIN
VALVE AND VALVE BOX

200+61.07, 16.30' RT
REMOVING WATERMAIN
VALVE AND VALVE BOX

202+62.15, -7.29' LT
RECONSTRUCTING
SANITARY MANHOLE

203+65.41, 15.41' RT
CONNECT TO EXISTING
12" WM W/ VALVE AND
VALVE BOX 12-INCH

2-INCH INSULATION
BOARD POLYSTYRENE

2-INCH INSULATION
BOARD POLYSTYRENE

200+55.02, 16.21' RT
CONNECT TO EXISTING
12" WM W/ VALVE AND
VALVE BOX 12-INCH

ROBERTS RD

63+00

203+33.1, 15.5' RT
REPLACE EXISTING WATER SERVICE
W/ NEW 1" PLASTIC, NEW SADDLE,
CORPORATION STOP,
CURB STOP & CURB BOX

204+14.93, 26.30' RT
RECONSTRUCTING
SANITARY MANHOLE

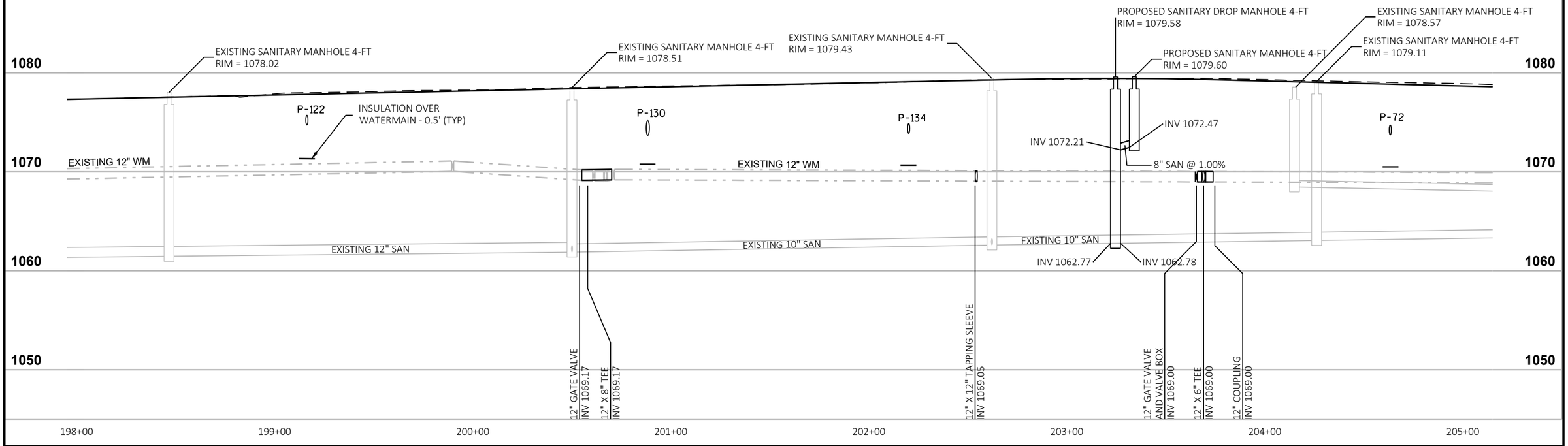
204+23.5, 15.2' RT
REPLACE EXISTING WATER SERVICE
W/ NEW 1" PLASTIC, NEW SADDLE,
CORPORATION STOP,
CURB STOP & CURB BOX

M-2 STA 203+34, 47.6' R
SANITARY MH 4-FT DIA-J-SPECIAL

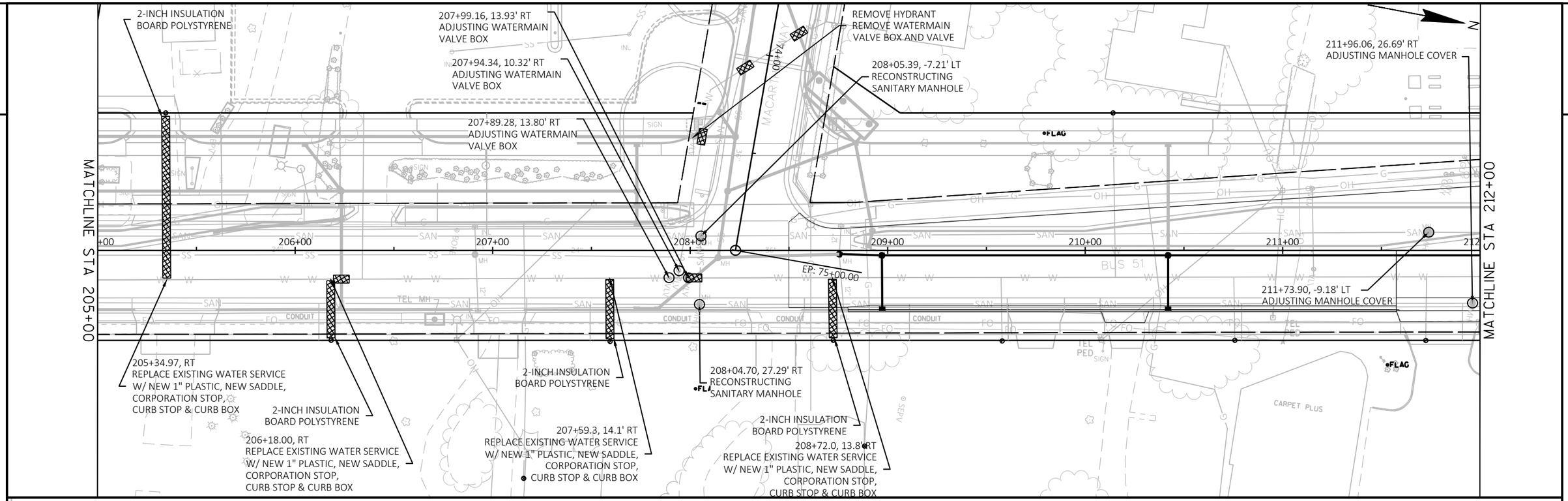
MAINTAIN EXISTING SANITARY SERVICE

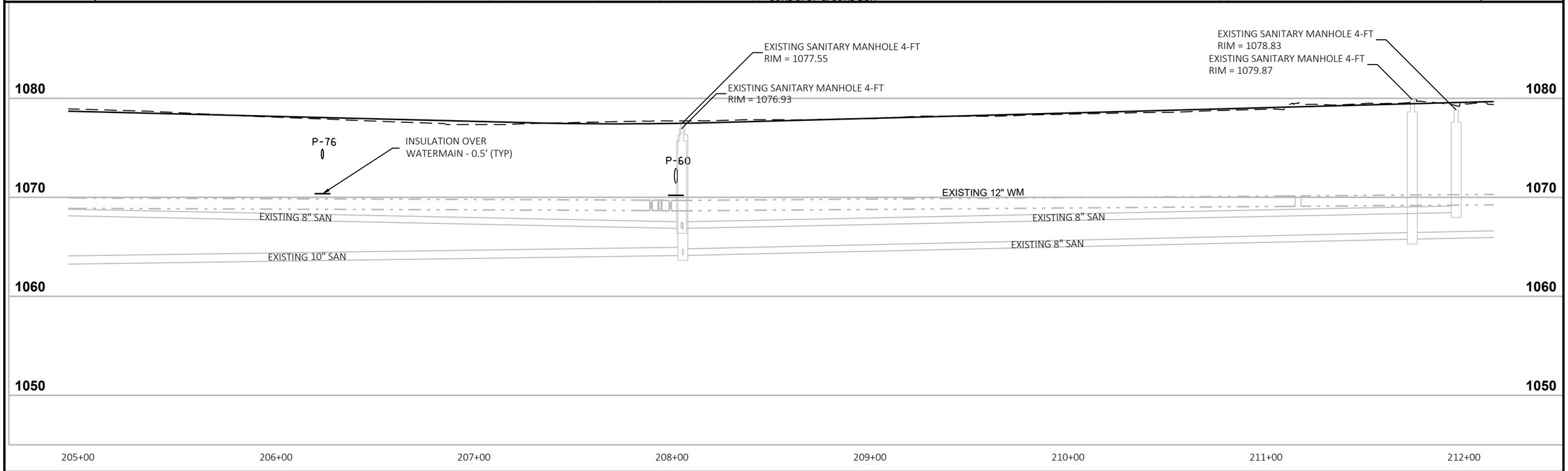
203+69.15, 15.40' RT
HYDRANT (7' - 6" BURY)
6" VALVE AND VALVE BOX
2 - 45 DEGREE 6" VERT. BENDS
6" WM
12" X 6" TEE

203+73.88, 15.38' RT
CONNECT TO EXISTING
12" WM W/ 12" COUPLING



PROJECT NO: 6414-00-89	HWY: BUSINESS 51	COUNTY: PORTAGE	UTILITY IMPROVEMENTS	SHEET 8	E





PROJECT NO: 6414-00-89	HWY: BUSINESS 51	COUNTY: PORTAGE	UTILITY IMPROVEMENTS	SHEET 9	E

2

MATCHLINE STA 212+00

213+70.20, 12.93' RT
ADJUSTING WATERMAIN
VALVE BOX

PI: 213+93.51

214+04.09, -8.07' LT
ADJUSTING MANHOLE COVER

BUSINESS 51

HICKORY DR

EXISTING SANITARY MANHOLE 4-FT
RIM = 1079.20

EXISTING 12" WM

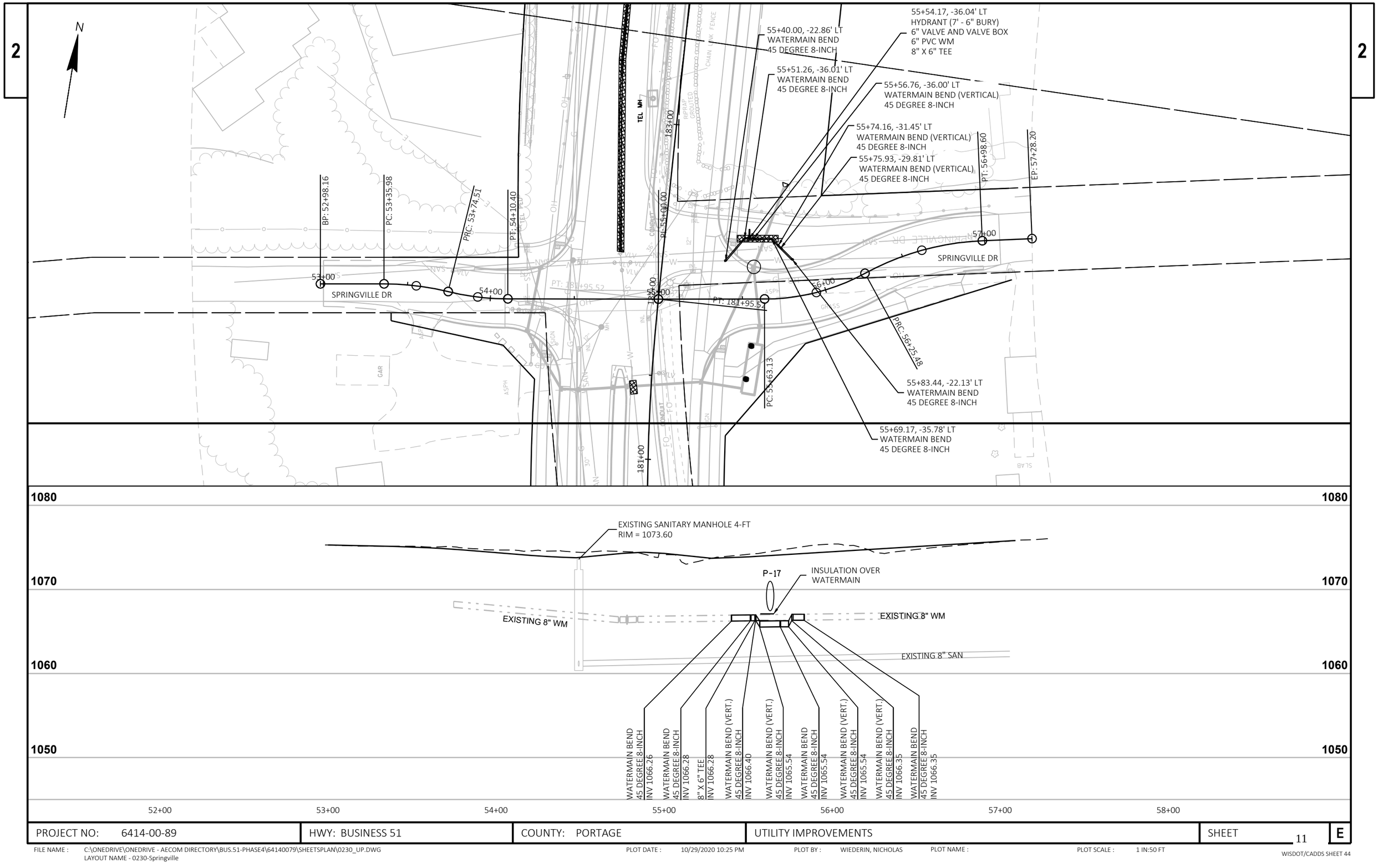
EXISTING 8" SAN

1080
1070
1060
1050

212+00 213+00 214+00 215+00 216+00 217+00 218+00 219+00

PROJECT NO: 6414-00-89	HWY: BUSINESS 51	COUNTY: PORTAGE	UTILITY IMPROVEMENTS	SHEET 10	E

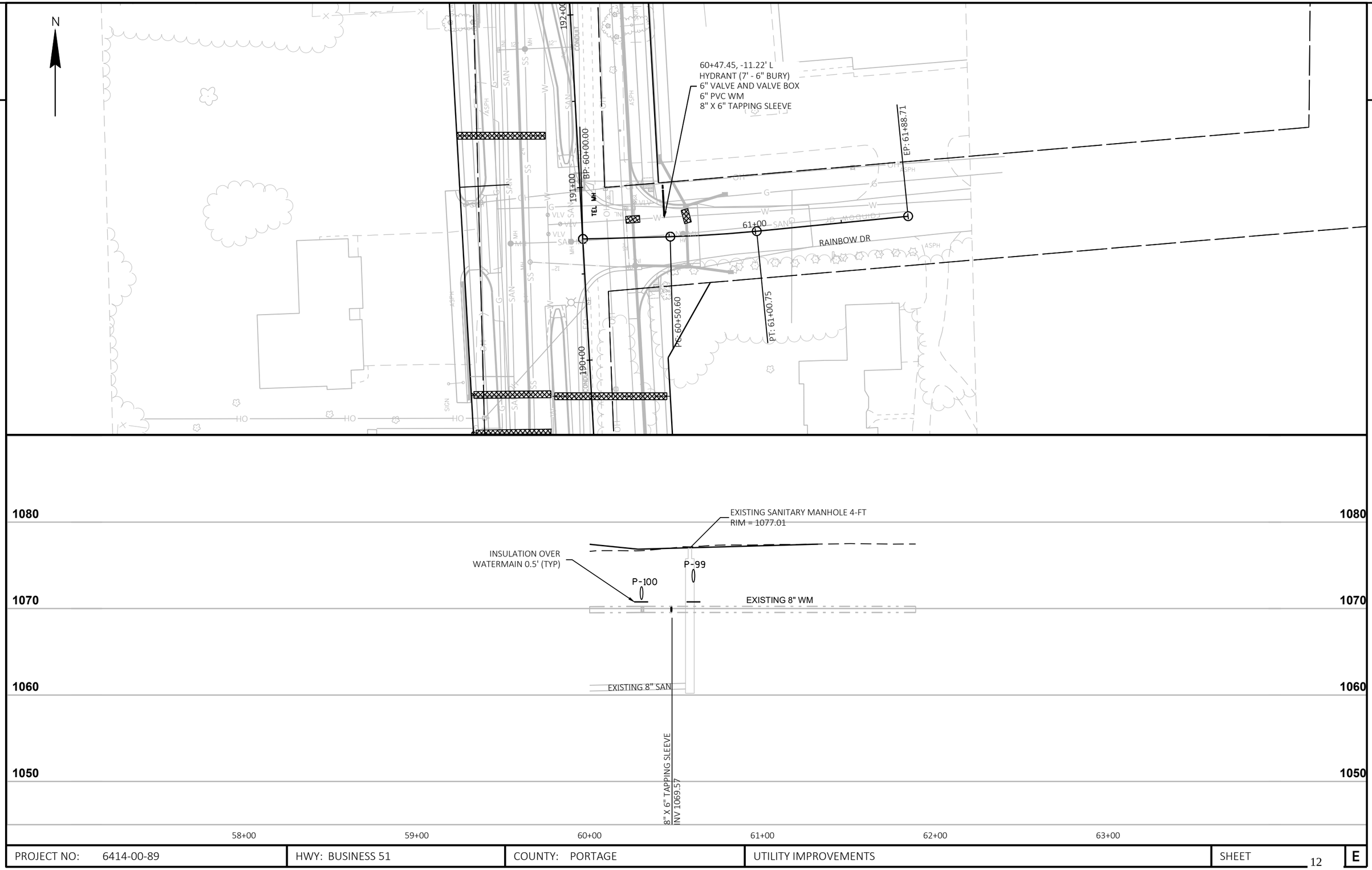
FILE NAME : L:\WORK\PROJECTS\66136\TASK_139_BUSINESS 51 PH 4 UTIL DESIGN\64140079\SHEETSPLAN\0230_UP.DWG
LAYOUT NAME - 0230-(06)
PLOT DATE : 7/17/2019 4:23 PM PLOT BY : WIEDERIN, NICHOLAS PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44



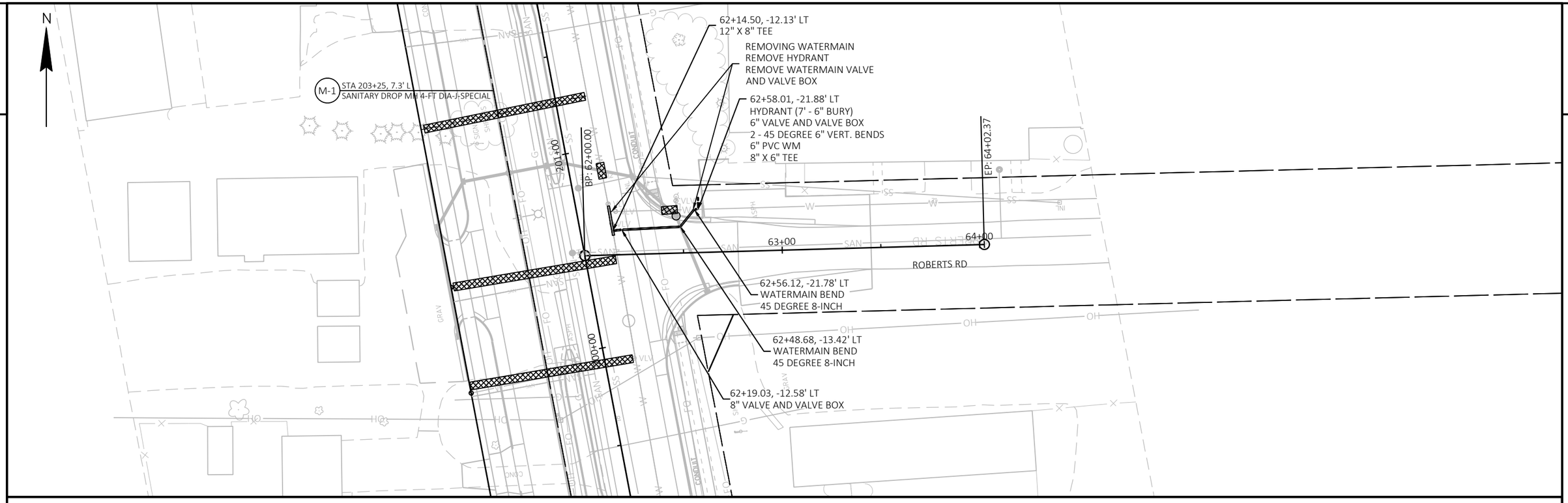
PROJECT NO: 6414-00-89	HWY: BUSINESS 51	COUNTY: PORTAGE	UTILITY IMPROVEMENTS	SHEET 11	E

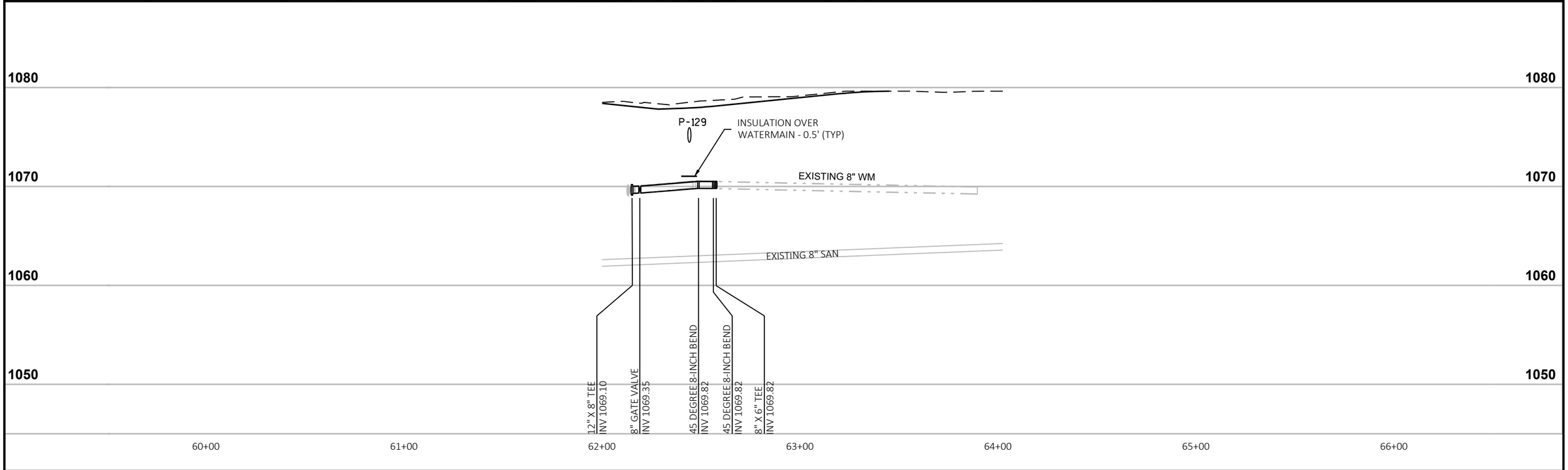
FILE NAME : C:\ONEDRIVE\ONEDRIVE - AECOM DIRECTORY\BUS.51-PHASE4\64140079\SHEETSPLAN\0230_UP.DWG
LAYOUT NAME - 0230-Springville

PLOT DATE : 10/29/2020 10:25 PM PLOT BY : WIEDERIN, NICHOLAS PLOT NAME : PLOT SCALE : 1 IN:50 FT

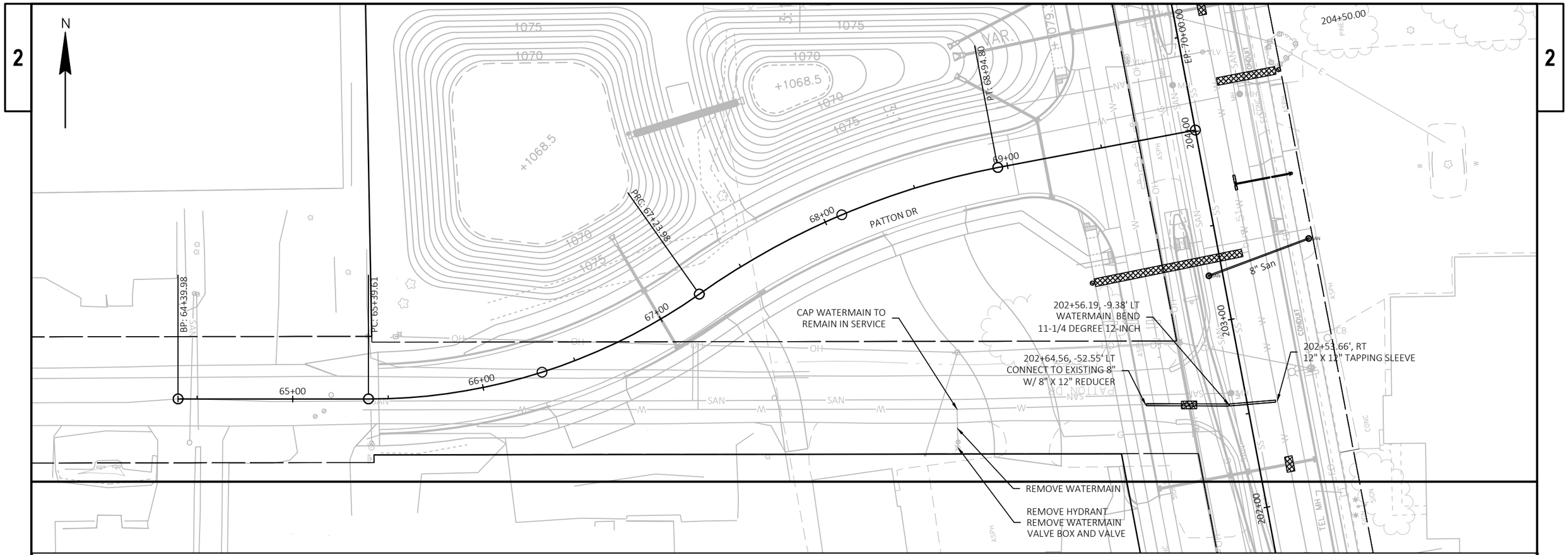


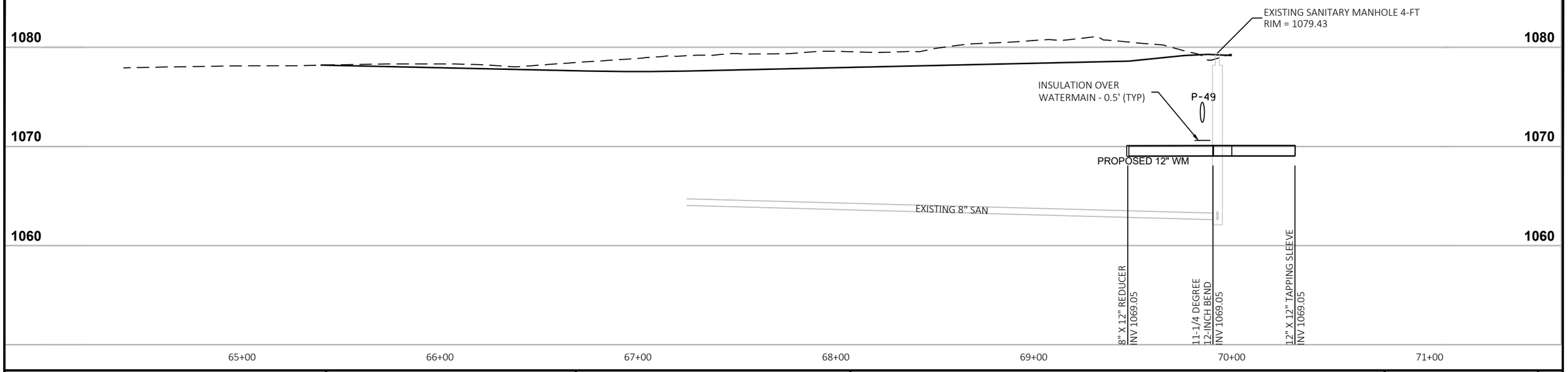
PROJECT NO: 6414-00-89	HWY: BUSINESS 51	COUNTY: PORTAGE	UTILITY IMPROVEMENTS	SHEET 12	E





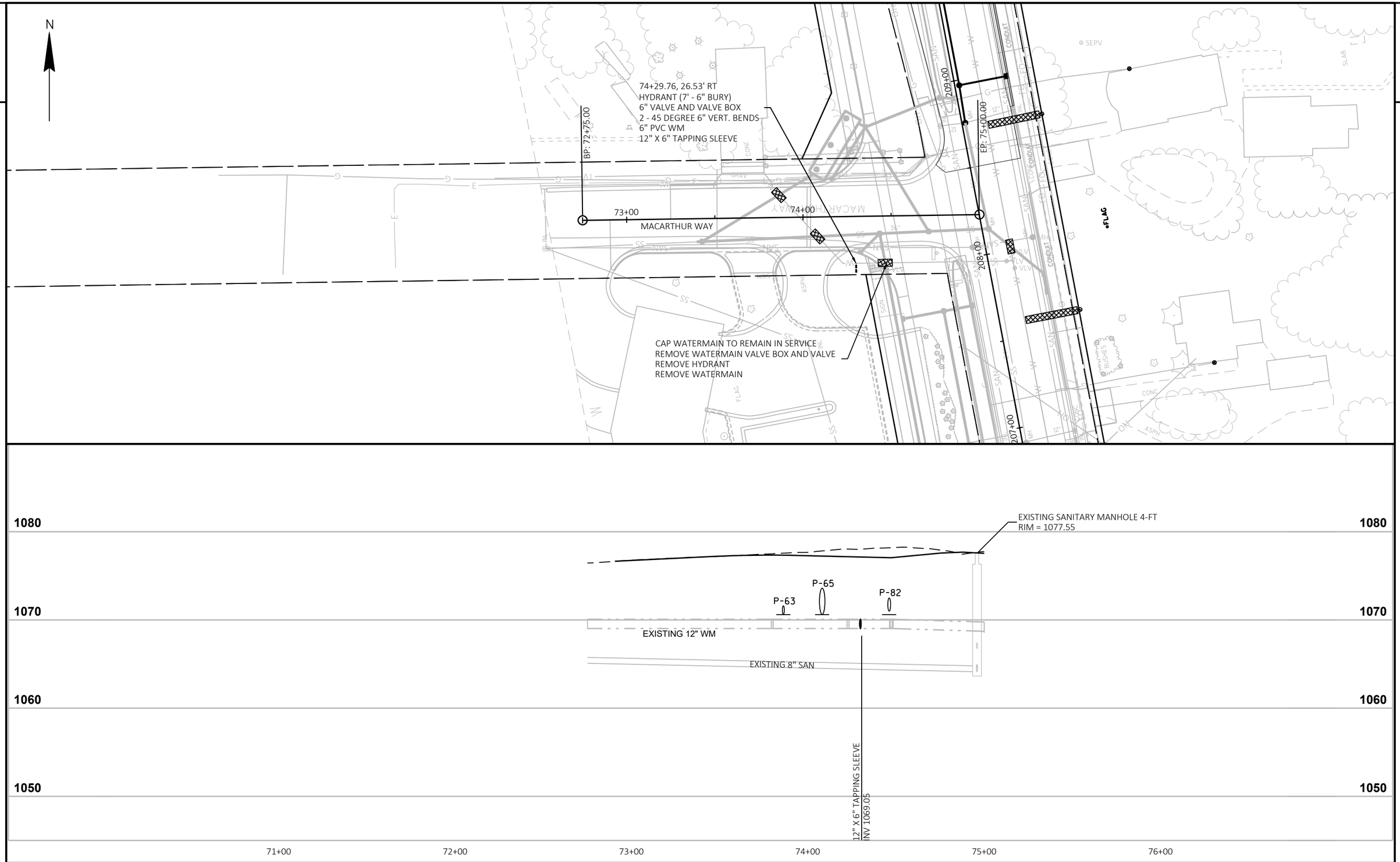
PROJECT NO: 6414-00-89	HWY: BUSINESS 51	COUNTY: PORTAGE	UTILITY IMPROVEMENTS	SHEET 13	E





PROJECT NO: 6414-00-89	HWY: BUSINESS 51	COUNTY: PORTAGE	UTILITY IMPROVEMENTS	SHEET 14	E

FILE NAME : C:\ONEDRIVE\ONEDRIVE - AECOM DIRECTORY\BUS.51-PHASE4\64140079\SHEETSPLAN\0230_UP.DWG
LAYOUT NAME - 0230-Patton
PLOT DATE : 10/30/2020 11:01 AM
PLOT BY : WIEDERIN, NICHOLAS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 6414-00-89	HWY: BUSINESS 51	COUNTY: PORTAGE	UTILITY IMPROVEMENTS	SHEET 15	E

6414-00-89

Line	Item	Item Description	Unit	Total	Qty
0036	204.9060.S	Removing (item description) 02.Removing Watermain Valve Box and Valve	EACH	12.000	12.000
0038	204.9060.S	Removing (item description) 03. Removing Hydrants	EACH	8.000	8.000
0040	204.9090.S	Removing (item description) 01. Removing Watermain	LF	612.000	612.000
0184	611.8110	Adjusting Manhole Covers	EACH	3.000	3.000
0186	611.8120.S	Cover Plates Temporary	EACH	23.000	23.000
0192	612.0902.S	Insulation Board Polystyrene (inch) 01. 2-Inch	SY	1,022.000	1,022.000
0206	619.1000	Mobilization	EACH	0.040	0.040
0412	SPV.0060	Special 12. Adjusting Watermain Valve Box	EACH	17.000	17.000
0414	SPV.0060	Special 13. Hydrant	EACH	7.000	7.000
0416	SPV.0060	Special 14. Watermain Gate Valve and Box 6-Inch	EACH	7.000	7.000
0418	SPV.0060	Special 15. Watermain Gate Valve and Box 8-Inch	EACH	1.000	1.000
0420	SPV.0060	Special 16. Watermain Gate Valve and Box 12-Inch	EACH	3.000	3.000
0422	SPV.0060	Special 17. Watermain Coupling 12-Inch	EACH	1.000	1.000
0424	SPV.0060	Special 18. Watermain Bend 45 Degree 6-Inch	EACH	8.000	8.000
0426	SPV.0060	Special 19. Watermain Bend 45 Degree 8-Inch	EACH	8.000	8.000
0428	SPV.0060	Special 20. Watermain Bend 11-1/4 Degree 12-Inch	EACH	1.000	1.000
0430	SPV.0060	Special 21. Watermain Tee 8 X 6-Inch	EACH	2.000	2.000
0432	SPV.0060	Special 22. Watermain Tee 12 X 6-Inch	EACH	1.000	1.000
0434	SPV.0060	Special 23. Watermain Reducer 6 X 8-Inch	EACH	2.000	2.000
0436	SPV.0060	Special 24. Watermain Reducer 8 X 12-Inch	EACH	1.000	1.000
0438	SPV.0060	Special 25. Watermain Tapping Sleeve 8 X 6-Inch	EACH	2.000	2.000
0440	SPV.0060	Special 26. Watermain Tapping Sleeve 12 X 6-Inch	EACH	1.000	1.000
0442	SPV.0060	Special 27. Watermain Tee 12 X 8-Inch	EACH	1.000	1.000
0444	SPV.0060	Special 28. Watermain Tapping Sleeve 12 X 12-Inch	EACH	1.000	1.000
0446	SPV.0060	Special 29. Cap Watermain to Remain in Service	EACH	6.000	6.000
0448	SPV.0060	Special 30. Plug Watermain Abandoned in Place	EACH	2.000	2.000
0450	SPV.0060	Special 31. Tracer Wire Access Box	EACH	2.000	2.000
0452	SPV.0060	Special 32. Reconstructing Sanitary Manhole	EACH	18.000	18.000
0454	SPV.0060	Special 33. Sanitary Manhole Casting	EACH	20.000	20.000
0456	SPV.0060	Special 34. Sanitary Manhole	EACH	1.000	1.000
0478	SPV.0090	Special 08. Watermain 6-Inch	LF	103.000	103.000
0480	SPV.0090	Special 09. Watermain 8-Inch	LF	88.000	88.000
0482	SPV.0090	Special 10. Watermain 12-Inch	LF	528.000	528.000
0484	SPV.0090	Special 11. Water Service 1-Inch	LF	1,719.000	1,719.000
0486	SPV.0090	Special 12. Sanitary Lateral 4-Inch	LF	66.000	66.000
0488	SPV.0090	Special 13. Class B Bedding	LF	25.000	25.000
0490	SPV.0090	Special 14. Sanitary Sewer 8-Inch	LF	57.000	57.000
0526	SPV.0200	Special 01. Sanitary Drop Manhole	VF	16.100	16.100

REMOVING WATERMAIN

STATION	LOCATION	204.9060.S.02 REMOVING WATERMAIN VALVE BOX AND VALVE EACH	204.9060.S.03 REMOVING HYDRANTS EACH	204.9090.S.01 REMOVING WATERMAIN LF	SPV.0060.S.12 ADJUSTING WATERMAIN VALVE BOX EACH	SPV.0060.30 PLUG WATERMAIN ABANDONED IN PLACE EACH	REMARKS
178+59	RT	---	---	---	1	---	BUSINESS 51
181+49	RT	1	1	17	---	---	BUSINESS 51
182+10	LT	---	---	---	1	---	BUSINESS 51
182+14	LT	---	---	---	1	---	BUSINESS 51
182+16	LT	---	---	---	1	---	BUSINESS 51
182+20	LT	---	---	---	1	---	BUSINESS 51
182+20 - 186+66	LT	---	---	445	---	---	BUSINESS 51
187+95	LT	1	1	37	1	---	BUSINESS 51
190+74	LT	---	---	---	1	---	BUSINESS 51
190+80	LT	---	---	---	1	---	BUSINESS 51
190+85	LT	---	---	---	1	---	BUSINESS 51
190+92	RT	1	1	10	---	---	BUSINESS 51
195+33	RT	---	---	---	1	---	BUSINESS 51
196+43	RT	---	---	---	1	---	BUSINESS 51
199+92	RT	---	---	---	1	---	BUSINESS 51
200+55 - 200+70	RT	---	---	15	---	---	BUSINESS 51
200+61	RT	1	---	---	---	---	BUSINESS 51
200+67	RT	1	---	---	---	---	BUSINESS 51
200+71	RT	---	---	---	1	---	BUSINESS 51
202+66	LT	---	---	---	---	1	BUSINESS 51
204+40	LT	1	1	5	---	---	BUSINESS 51
204+40	RT	1	---	---	---	1	BUSINESS 51
207+89	RT	---	---	---	1	---	BUSINESS 51
207+94	RT	---	---	---	1	---	BUSINESS 51
207+99	RT	---	---	---	1	---	BUSINESS 51
213+70	RT	---	---	---	1	---	BUSINESS 51
64+14 - 62+50	LT	2	1	48	---	---	ROBERTS RD
60+31	LT	1	1	10	---	---	RAINBOW DR
68+32	RT	1	1	20	---	---	PATTON DR
74+47	RT	1	1	5	---	---	MACARTHUR WAY
PROJECT 6414-00-89 TOTAL		**12**	**8**	**612**	**17**	**2**	

WATER SERVICE

SPV.0090.11 WATER SERVICE 1-INCH

STATION	LOCATION	CAT 0010 LF	CAT 0020* LF	REMARKS	PLAT PARCEL
180+79	LT	54	13	BUSINESS 51	74
186+78	LT	37	--	BUSINESS 51	85
187+89	LT	41	--	BUSINESS 51	85
188+40	RT	72	--	BUSINESS 51	91
189+59	LT	41	5	BUSINESS 51	85
189+80	RT	36	32	BUSINESS 51	92
189+82	LT	41	6	BUSINESS 51	85
191+31	LT	39	12	BUSINESS 51	86
192+18	RT	32	29	BUSINESS 51	93
192+60	LT	49	5	BUSINESS 51	87
193+59	RT	30	25	BUSINESS 51	94
193+82	LT	39	21	BUSINESS 51	88
194+74	RT	31	18	BUSINESS 51	94
195+61	RT	38	--	BUSINESS 51	951
195+83	LT	43	34	BUSINESS 51	88
196+33	RT	30	--	BUSINESS 51	952
197+15	LT	40	40	BUSINESS 51	100
197+84	LT	42	42	BUSINESS 51	101
198+60	RT	35	2	BUSINESS 51	95
199+11	LT	45	41	BUSINESS 51	102
199+92	LT	44	39	BUSINESS 51	103
200+43	LT	46	39	BUSINESS 51	103
201+27	LT	46	39	BUSINESS 51	104
203+33	LT	47	36	BUSINESS 51	105
204+24	RT	33	--	BUSINESS 51	109
204+79	RT	31	--	BUSINESS 51	110
205+35	LT	39	45	BUSINESS 51	106
206+18	RT	29	2	BUSINESS 51	110
207+59	RT	30	2	BUSINESS 51	111
208+72	RT	30	2	BUSINESS 51	112
	TOTALS	1190	529		
PROJECT 6414-00-89 TOTAL			**1719**		

* Cat 0020 is length of water lateral replaced in new right of way or TLE in which Plover has a water easement.

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

HYDRANTS

STATION	LOCATION	SPV.0060.13 HYDRANT EACH	BURY DEPTH	REMARKS
188+02	LT	1	7'-6"	BUSINESS 51
195+42	LT	1	7'-6"	BUSINESS 51
203+69	RT	1	7'-6"	BUSINESS 51
55+54	LT	1	7'-6"	SPRINGVILLE DR
60+47	LT	1	7'-6"	RAINBOW DR
62+47	LT	1	7'-6"	ROBERTS RD
74+30	RT	1	7'-6"	MACARTHUR WAY
PROJECT 6414-00-89 TOTAL		**7**		

WATER MAIN

		SPV.0060.14	SPV.0060.15	SPV.0060.16	SPV.0060.25	SPV.0060.26	SPV.0060.28	SPV.0060.17	SPV.0060.18	SPV.0060.19	SPV.0060.20	SPV.0060.21	SPV.0060.22	SPV.0060.27	SPV.0060.23	SPV.0060.24	SPV.0060.29	SPV.0090.08	SPV.0090.09	SPV.0090.10	
		WATERMAIN GATE VALVE AND BOX			WATERMAIN TAPPING SLEEVE			WATERMAIN COUPLING	WATERMAIN BEND			WATERMAIN TEE			WATERMAIN REDUCER		CAP WATERMAIN TO REMAIN	WATERMAIN			
		6-INCH	8-INCH	12-INCH	8 X 6-INCH	12 X 6-INCH	12 X 12-INCH	12 - INCH	45 DEGREE 6-INCH	45 DEGREE 8-INCH	11-1/4 DEGREE 12-INCH	8 X 6-INCH	12 X 6-INCH	12 X 8-INCH	6 X 8-INCH	8 X 12-INCH	IN SERVICE	6-INCH	8-INCH	12-INCH	
STATION	LOCATION	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LF	LF	LF	REMARKS
181+49	LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	BUSINESS 51
182+20 - 186+66	LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	445	BUSINESS 51
186+66	LT	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	BUSINESS 51
188+02	LT	1	---	---	---	---	---	---	2	---	---	---	---	---	1	---	---	13	---	---	BUSINESS 51
195+42	LT	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	26	---	---	BUSINESS 51
200+55 - 200+70	RT	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	15	BUSINESS 51
202+54	RT	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	68	CONNECTION TO EXISTING PATTON
202+56	LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	CONNECTION TO EXISTING PATTON
202+65	LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	CONNECTION TO EXISTING PATTON
203+65 - 203+74	RT	1	---	1	---	---	---	1	2	---	---	---	1	1	---	---	---	28	---	---	BUSINESS 51
204+45	RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	BUSINESS 51
55+40 - 55+83	LT	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	46	---	SPRINGVILLE DR
55+54	LT	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	9	---	---	SPRINGVILLE DR
60+47	LT	1	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	17	---	---	RAINBOW DR
62+14 - 62+56	LT	---	1	---	---	---	---	---	---	2	---	1	---	---	---	---	---	---	42	---	ROBERTS RD
62+58	LT	1	---	---	1	---	---	---	2	---	---	---	---	---	---	---	---	5	---	---	ROBERTS RD
68+32	LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	PATTON DR EXISTING HYDRANT LEAD
74+30	RT	1	---	---	---	1	---	---	2	---	---	---	---	---	---	---	---	5	---	---	MACARTHUR WAY
74+47	RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	MACARTHUR WAY
PROJECT 6414-00-89 TOTAL		**7**	**1**	**3**	**2**	**1**	**1**	**1**	**8**	**8**	**1**	**2**	**1**	**1**	**2**	**1**	**6**	**103**	**88**	**528**	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

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INSULATION BOARD

STATION	LOCATION	612.0902.S.01 INSULATION BOARD POLYSTYRENE 2-INCH SY	REMARKS
179+75	RT	3.6	BUSINESS 51
180+80	LT	27.9	BUSINESS 51
181+45	LT	3.6	BUSINESS 51
182+37 - 186+56	LT	194.3	BUSINESS 51
185+10	LT	3.6	BUSINESS 51
186+50	LT	3.6	BUSINESS 51
186+78	LT	15.2	BUSINESS 51
187+10	LT	3.6	BUSINESS 51
187+89	LT	17.0	BUSINESS 51
188+40	LT	31.2	BUSINESS 51
189+59	LT	19.2	BUSINESS 51
189+80	LT	19.8	BUSINESS 51
189+82	LT	28.8	BUSINESS 51
191+31	LT	22.7	BUSINESS 51
192+18	LT	26.7	BUSINESS 51
192+60	LT	23.8	BUSINESS 51
193+59	RT	23.4	BUSINESS 51
193+82	LT	26.9	BUSINESS 51
194+74	RT	19.0	BUSINESS 51
195+61	RT	14.8	BUSINESS 51
195+83	RT	34.3	BUSINESS 51
196+33	RT	13.6	BUSINESS 51
197+15	RT	34.7	BUSINESS 51
197+40	RT	3.6	BUSINESS 51
197+84	RT	36.2	BUSINESS 51
198+60	RT	16.7	BUSINESS 51
199+11	RT	37.1	BUSINESS 51
199+15	RT	3.6	BUSINESS 51
199+92	RT	37.0	BUSINESS 51
200+43	RT	37.0	BUSINESS 51
200+88	RT	3.6	BUSINESS 51
201+27	RT	36.9	BUSINESS 51
202+20	RT	3.6	BUSINESS 51
202+55	LT	3.6	BUSINESS 51
203+33	RT	34.9	BUSINESS 51
204+24	RT	13.8	BUSINESS 51
204+60	RT	3.6	BUSINESS 51
204+79	RT	12.8	BUSINESS 51
205+35	RT	36.3	BUSINESS 51
206+18	RT	12.9	BUSINESS 51
206+25	RT	3.6	BUSINESS 51
207+59	RT	13.3	BUSINESS 51
208+00	RT	3.6	BUSINESS 51
208+72	RT	13.1	BUSINESS 51
209+58	RT	13.4	BUSINESS 51
55+54	LT	8.9	SPRINGVILLE DR
60+30	LT	3.6	RAINBOW DR
60+60	LT	3.6	RAINBOW DR
62+45	LT	3.6	ROBERTS RD
73+86	LT	3.6	MACARTHUR WAY
74+08	RT	3.6	MACARTHUR WAY
74+46	RT	3.6	MACARTHUR WAY
PROJECT 6414-00-89 TOTAL		**1,022.0**	

SANITARY SEWER

STATION	LOCATION	SPV.0060.31 TRACER WIRE ACCESS BOX EACH	SPV.0090.12 SANITARY LATERAL 4-INCH LF	SPV.0090.13 CLASS B BEDDING LF	SPV.0090.14 SANITARY SEWER 8-INCH LF	REMARKS
191+04	LT	1	31	---	---	BUSINESS 51
195+98	LT	1	35	---	---	BUSINESS 51
203+25 - 203+39	RT	---	---	---	57	MONOGRAM SERVICE
	UNDISTRIBUTED	---	---	25	---	
PROJECT 6414-00-89 TOTAL		**2**	**66**	**25**	**57**	

SANITARY MANHOLES

STATION	LOCATION	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	SPV.0060.32 RECONSTRUCTING SANITARY MANHOLE EACH	SPV.0060.33 SANITARY MANHOLE CASTING EACH	SPV.0060.34 SANITARY MANHOLE EACH	SPV.0200.01 SANITARY DROP MANHOLE VF	REMARKS
179+33	LT	---	1	1	1	---	---	BUSINESS 51
182+13	LT	---	1	1	1	---	---	BUSINESS 51
187+51	LT	---	1	1	1	---	---	BUSINESS 51
190+69	LT	---	1	1	1	---	---	BUSINESS 51
190+70	LT	---	1	1	1	---	---	BUSINESS 51
190+70	RT	---	1	1	1	---	---	RAINBOW DR
193+67	LT	---	1	1	1	---	---	BUSINESS 51
193+71	LT	---	1	1	1	---	---	BUSINESS 51
193+71	RT	---	1	1	1	---	---	BUSINESS 51
196+33	LT	---	1	1	1	---	---	BUSINESS 51
196+44	RT	---	1	1	1	---	---	BUSINESS 51
198+47	LT	---	1	1	1	---	---	BUSINESS 51
200+50	LT	---	1	1	1	---	---	BUSINESS 51
202+62	LT	---	1	1	1	---	---	BUSINESS 51
203+25	LT	---	1	---	1	---	16.1	BUSINESS 51
203+39	RT	---	1	---	1	1	---	MONOGRAM SERVICE
204+15	RT	---	1	1	1	---	---	BUSINESS 51
204+26	LT	---	1	1	1	---	---	BUSINESS 51
208+05	RT	---	1	1	1	---	---	BUSINESS 51
208+05	LT	---	1	1	1	---	---	BUSINESS 51
211+74	LT	1	1	---	---	---	---	BUSINESS 51
211+96	RT	1	1	---	---	---	---	BUSINESS 51
214+04	LT	1	1	---	---	---	---	BUSINESS 51
PROJECT 6414-00-89 TOTALS		**3**	**23**	**18**	**20**	**1**	**16.1**	

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