WIS

JUNE 2016

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 = 344

PROJECT ID: 6250-01-78
WITH: 6250-01-79

COUNTY: WAUPACA

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C CLINTONVILLE, MAIN STREET

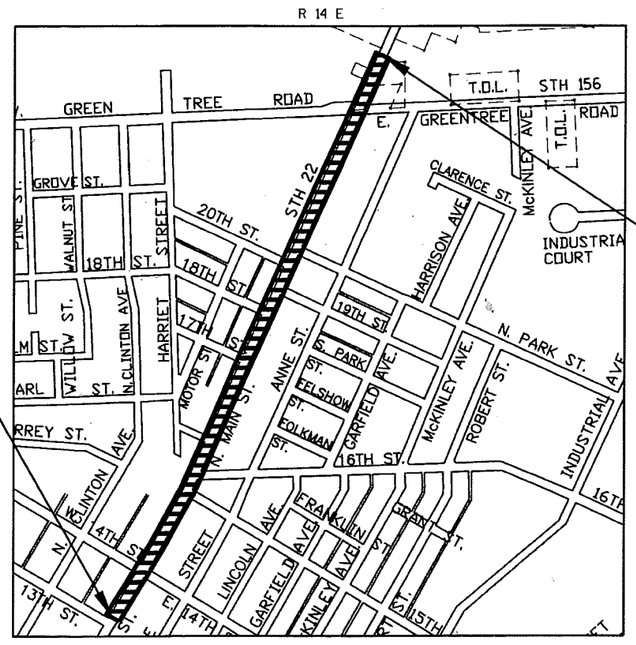
13TH STREET TO STH 156

STH 22

WAUPACA COUNTY

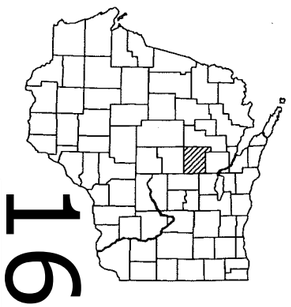
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6250-01-78	WISC 2016259	1

STATE PROJECT NUMBER
6250-01-78



BEGIN PROJECT
STA 130+50.00
Y=439042.131
X=622084.258

END PROJECT
STA 182+86.82



N

DESIGN DESIGNATION

A.A.D.T.	(2017)	=	15,700
A.A.D.T.	(2037)	=	18,700
D.H.V.	(2037)	=	2,225
D.D.		=	58/42
T.		=	5.3%
DESIGN SPEED		=	30 MPH
ESALS		=	3,117,100

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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

UTILITIES

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

LAYOUT
SCALE 0 500'

TOTAL NET LENGTH OF CENTERLINE = 0.992 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), WAUPACA COUNTY.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 88 (2007).

ORIGINAL PLANS PREPARED BY:
CBS SQUARED INC.

WISCONSIN
BRIAN E. SMITS
E-27284
CHIPPEWA FALLS
WI
PROFESSIONAL ENGINEER

Brian E. Smits
7/29/2015

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	CBS SQUARED INC.
Designer	CBS SQUARED INC.
Project Manager	MARK STEIDL
Regional Examiner	CHERYL SIMON
Regional Supervisor	SHANNON RILEY

APPROVED FOR THE DEPARTMENT
DATE: 7/30/15 (Signature)

E

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.

ANY TREES OR SHRUBS NOT MARKED FOR REMOVAL IN THE PLANS SHALL NOT BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

FINISHED SEEDED SURFACE SHALL BE 1-INCH BELOW THE TOP OF ADJACENT CONCRETE.

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

CONSTRUCT INSIDE EDGE OF SIDEWALK 1/4 INCH HIGHER THAN THE TOP OF CURB, WHEN THEY ARE ADJACENT TO EACH OTHER.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS AND PAVEMENTS AT REMOVAL LIMITS.

TOP OF CASTING ELEVATIONS SHOWN FOR CATCH BASINS REFER TO THE NORMAL CASTING FLOWLINE.

ALL STORM SEWER INVERT ELEVATIONS AND GRADES ARE COMPUTED OUTSIDE-TO-OUTSIDE OF STRUCTURE. STORM SEWER PIPE LENGTHS ARE COMPUTED CENTER-TO-CENTER OF STRUCTURE.

HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYER THICKNESSES:

PAVEMENT THICKNESS (INCH)	LOWER (INCH)	MIDDLE (INCH)	UPPER (INCH)
2	-	-	2
3	-	-	3
4	2.25	-	1.75
5.5	2.0	1.75	1.75

ORDER OF TYPICAL SECTION AND DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
LINEAR SCHEDULE
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
STORM SEWER
PLANTING
PERMANENT SIGNING
STREET LIGHTING
PAVEMENT MARKING
TRAFFIC CONTROL AND DETOUR SIGNING
SURVEY TIES
ALIGNMENT

UTILITY CONTACTS

RUDI RUDIGER
CHARTER COMMUNICATIONS - COMMUNICATION LINE
5025 HEFFRON ST
STEVENS POINT, WI 54481
(715) 204-5339 (MOBILE)
RUDI.RUDIGER@CHARTER.COM

BRIAN ELLICKSON
CLINTONVILLE UTILITIES - ELECTRICITY
50 TENTH ST
CLINTONVILLE, WI 54929
(715) 823-7600
(715) 250-2870 (MOBILE)
BELLICKSON@CLINTONVILLEWI.ORG

CLINTONVILLE UTILITIES - ELECTRICITY
CONSTRUCTION FIELD CONTACT:
JON CARRICK
50 TENTH ST
CLINTONVILLE, WI 54929
(715) 823-7640
(715) 250-2870 (MOBILE)
JCARRICK@CLINTONVILLEWI.ORG

JAMES JASKOLSKI
FRONTIER COMMUNICATIONS OF WI LLC - COMMUNICATION LINE
26 WEST 12TH ST
CLINTONVILLE, WI 54929
(715) 823-1227
(715) 853-6843 (MOBILE)
JAMES.JASKOLSKI@FTR.COM

SEND ALL WE ENERGIES CORRESPONDENCE TO:
LATROY BRUMFIELD
WE ENERGIES - GAS/ELECTRIC
333 W EVERETT ST, A299
MILWAUKEE, WI 53203
(414) 221-5617
LATROY.BRUMFIELD@WE-ENERGIES.COM

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

WE ENERGIES CONSTRUCTION
FIELD CONTACT:
CODY BECKMAN
800 S LYNDLE DR
APPLETON, WI 54914
(920) 380-3422
(920) 428-1038 (MOBILE)
CODY.BECKMAN@WE-ENERGIES.COM

DAVE TICHINAL
CLINTONVILLE UTILITIES - WATER & SANITARY
50 TENTH ST
CLINTONVILLE, WI 54929
(715) 823-7600
(715) 250-0358 (MOBILE)
DTICHINEL@CLINTONVILLEWI.ORG

CLINTONVILLE UTILITIES - WATER
CONSTRUCTION FIELD CONTACT:
BOB STANISLAWSKI
50 TENTH ST
CLINTONVILLE, WI 54929
(715) 823-7600
(715) 250-0200 (MOBILE)
BSTANISLAWSKI@CLINTONVILLEWI.ORG

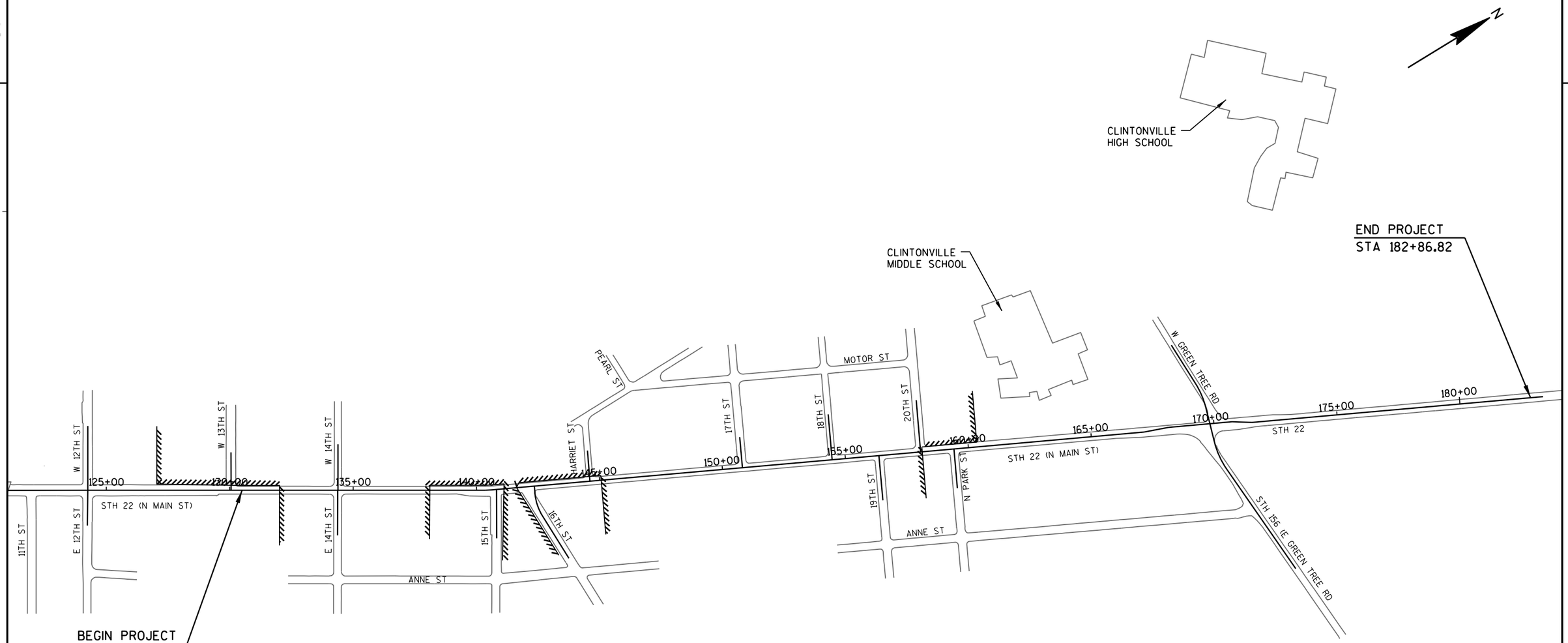
CLINTONVILLE UTILITIES - SANITARY
CONSTRUCTION FIELD CONTACT:
JENNY PAGEL
350 E 15TH ST
CLINTONVILLE, WI 54929
(715) 823-7675
(920) 606-4634 (MOBILE)
JPAGEL@CLINTONVILLEWI.ORG

ROBERT SAMPSON
QWEST COMMUNICATIONS - COMMUNICATION LINE
1310 E. MARY STREET
OTTUMWA, IA 52501
(636)-887-5367 (MOBILE)
ROBERT.SAMPSON@CENTURYLINK.COM

WDNR CONTACT

BOBBIE JO FISCHER
WDNR
WAUTOMA SERVICE CENTER
427 EAST TOWER DRIVE, SUITE 100
WAUTOMA, WI 54982
(920)787-3015
BOBBI.FISCHER@WISCONSIN.GOV

2

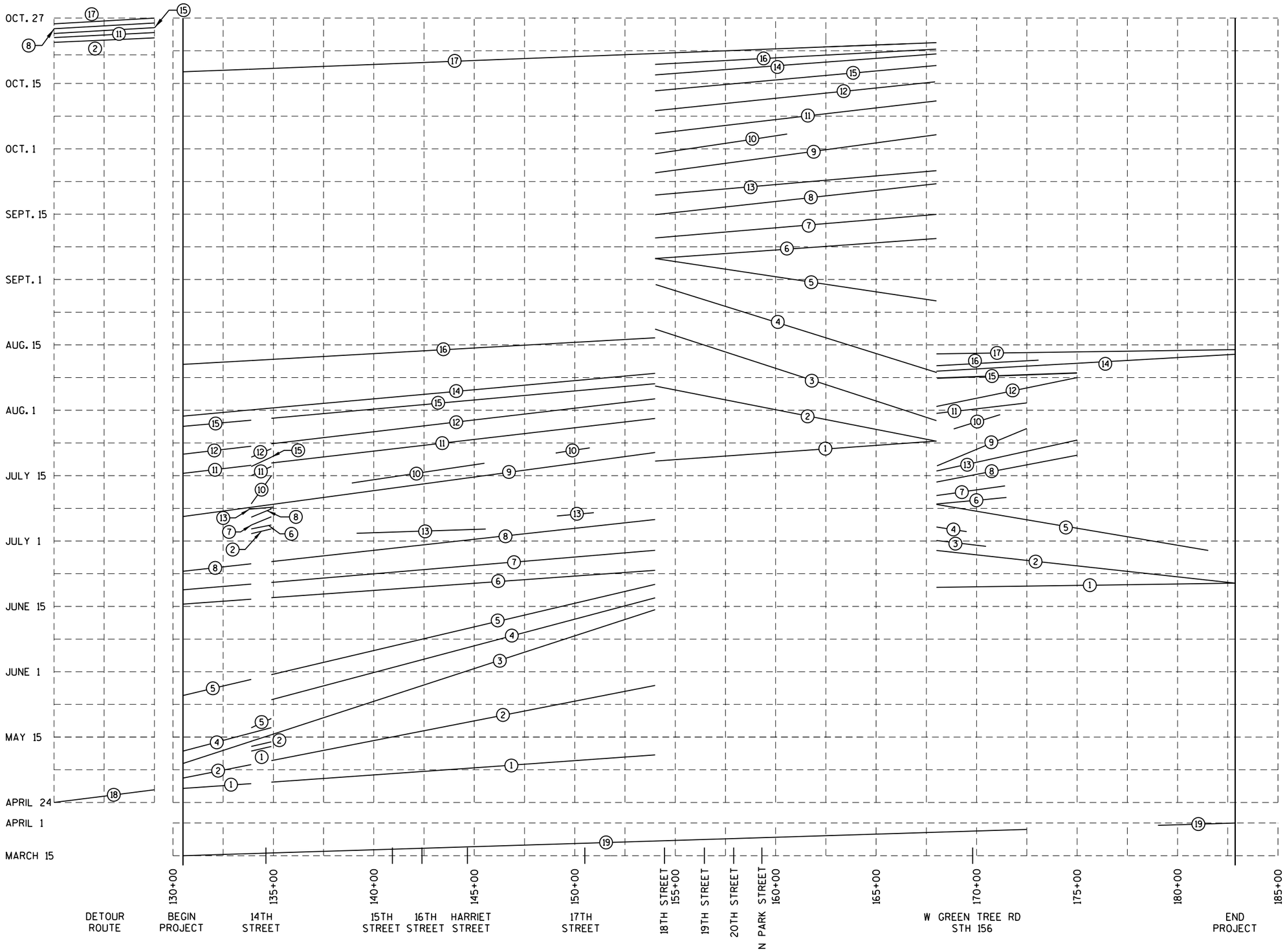


LEGEND

HISTORIC DISTRICT BOUNDARY

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PROJECT OVERVIEW	SHEET 3	E

2



NOTES:

THIS LINEAR SCHEDULE INDICATES ONE POSSIBLE SCENARIO IN WHICH THE CONTRACT WORK COULD BE COMPLETED ACCORDING TO THE TIME FRAME & WORK RESTRICTIONS. THIS IS PRESENTED FOR INFORMATION PURPOSES ONLY.

ALL CLEARING AND GRUBBING ACTIVITIES MUST BE COMPLETED PRIOR TO APRIL 1ST.

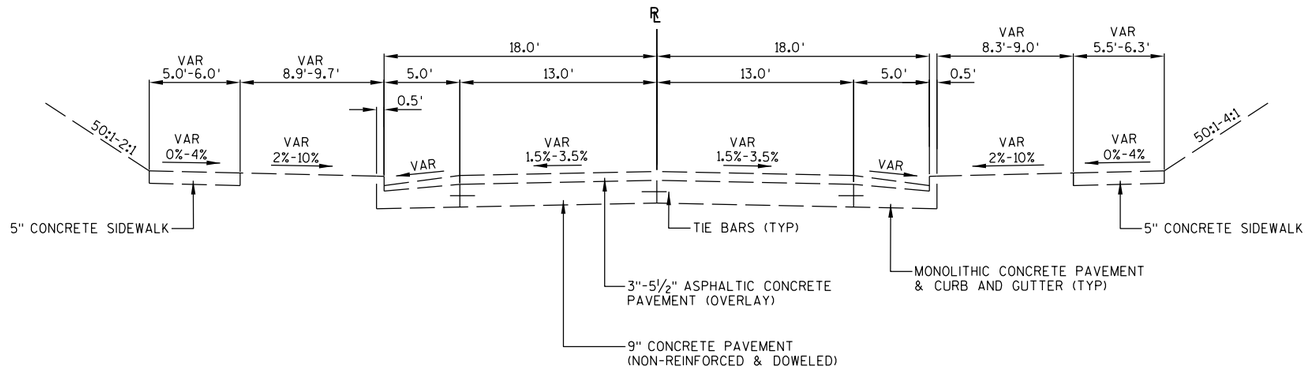
THIS SCHEDULE REFLECTS AN ANTICIPATED START DATE OF APRIL 24TH BEGINNING WITH DETOUR IMPROVEMENTS AT THE INTERSECTION OF LYON STREET AND E 12TH STREET.

LEGEND

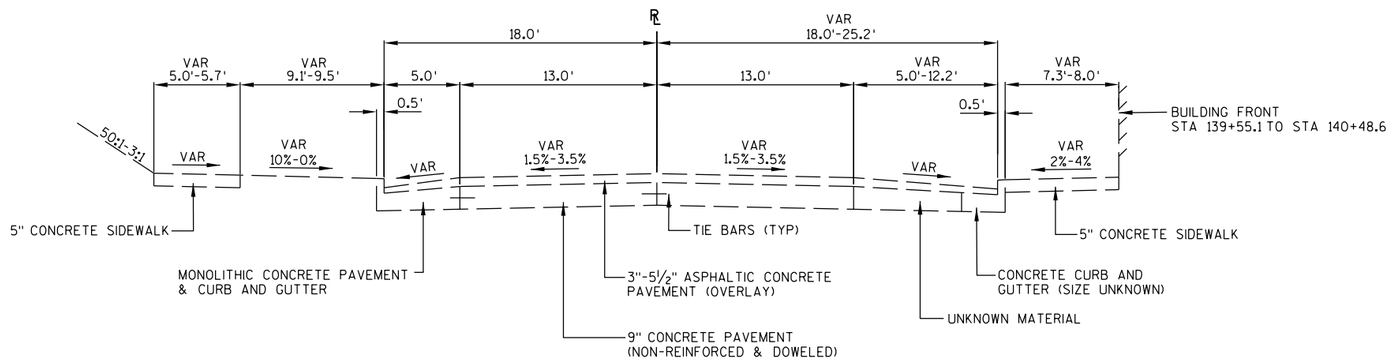
1. REMOVING PAVEMENT
2. COMMON EXCAVATION
3. SANITARY SEWER
4. WATER MAIN
5. STORM SEWER
6. PIPE UNDERDRAIN
7. SELECT CRUSHED MATERIAL
8. BASE AGGREGATE DENSE 1¼-INCH
9. CONCRETE PAVEMENT 8½-INCH
10. CONCRETE PAVEMENT (INTERSECTION)
11. CONCRETE CURB & GUTTER
12. CONCRETE SIDEWALKS, DRIVEWAYS & TERRACES
13. ELECTRICAL CONDUIT & CONCRETE BASES
14. TOPSOIL & RESTORATION
15. ASPHALTIC PAVING & SIGNING
16. STREET LIGHTING
17. PAVEMENT MARKING & FINISHING ROADWAY
18. TRAFFIC CONTROL & DETOUR SIGNING
19. CLEARING AND GRUBBING

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	LINEAR SCHEDULE FOR 2017 CONSTRUCTION SEASON	SHEET 4	E

2

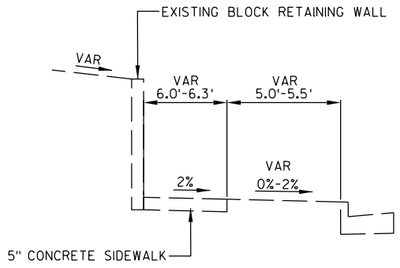


TYPICAL EXISTING SECTION
STH 22
STA 130+50.0 TO STA 139+19.6

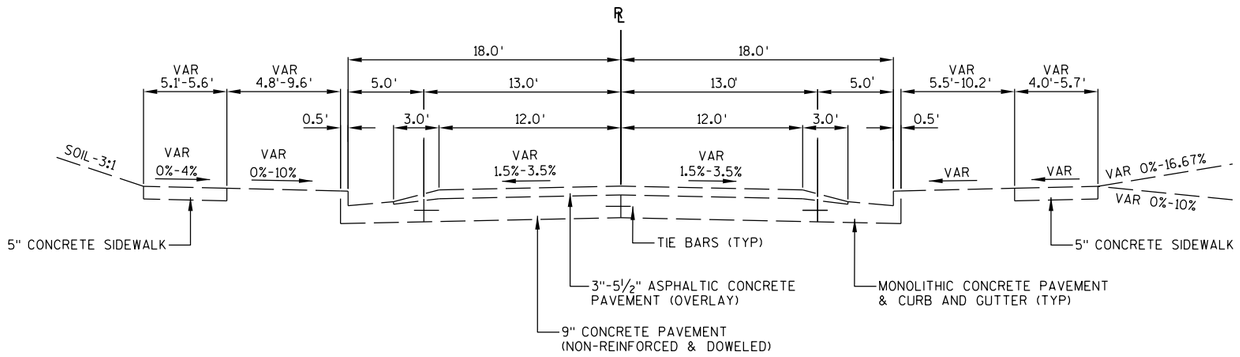


TYPICAL EXISTING SECTION
STH 22
STA 139+19.6 TO STA 142+46.7

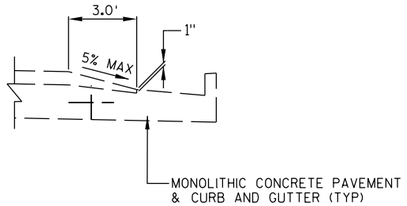
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TYPICAL SECTIONS	SHEET 5	E

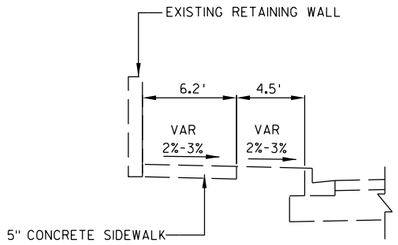


TYPICAL EXISTING SECTION
STH 22
STA 156+05.8 TO STA 156+59.5 LT

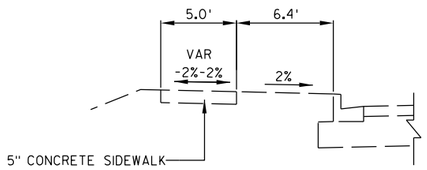


TYPICAL EXISTING SECTION
STH 22
STA 142+46.7 TO STA 157+73.4

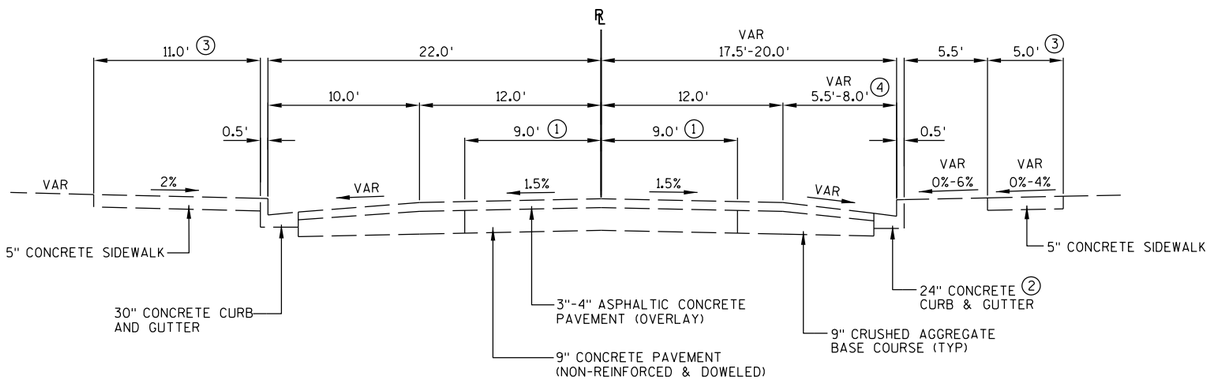




TYPICAL EXISTING SECTION
STA 157+45.8 TO STA 157+75.1 LT



TYPICAL EXISTING SECTION
STA 158+05.73 TO STA 159+69.20



TYPICAL EXISTING SECTION
STH 22
STA 157+73.4 TO STA 167+75.90

NOTES:

① EXISTING CONCRETE PAVEMENT WIDTH VARIES 13.0' TO 9.0' FROM STA 157+73.40 TO STA 158+82±.

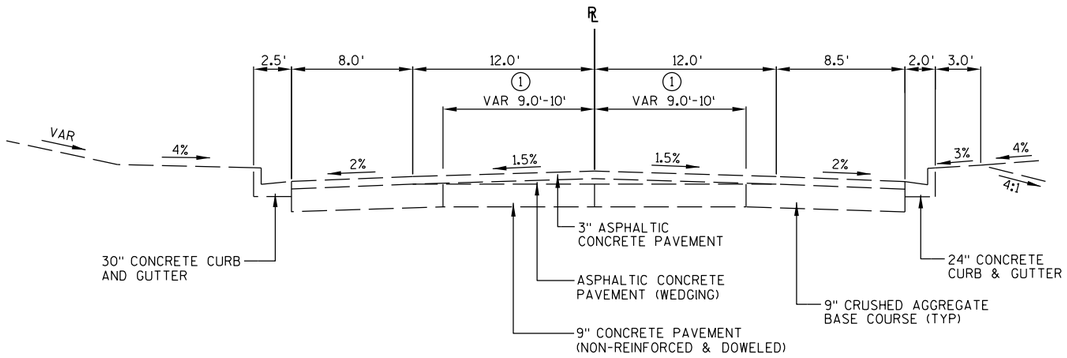
② EXISTING MONOLITHIC CONCRETE PAVEMENT & CURB AND GUTTER ENDS AND 24" CURB AND GUTTER BEGINS AT STA 158+82±

③ EXISTING SIDEWALK ENDS AT STA 164+75.9 LT AND STA 161+16.7 RT

④ WIDTH VARIES FROM 5.5' TO 8.0' STA 165+99.3 TO STA 166+99.4

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TYPICAL SECTIONS	SHEET 6	E

2



TYPICAL EXISTING SECTION

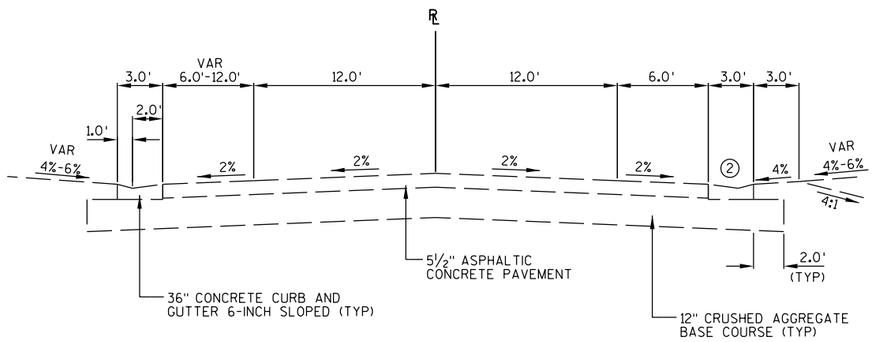
STH 22

STA 167+75.90 TO STA 170+45.50

NOTES:

(1) EXISTING CONCRETE PAVEMENT WIDTHS VARY FROM 9.0'-10.0' AT STA 169+77.5±

(2) TRANSITIONS FROM 24" CONCRETE CURB & GUTTER TO 36" CONCRETE CURB AND GUTTER 6-INCH SLOPED AT STA 171+75± RT



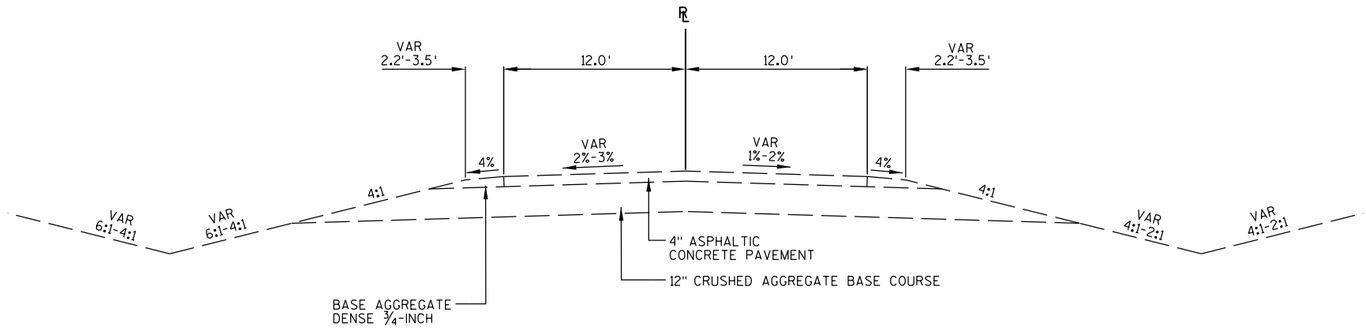
TYPICAL EXISTING SECTION

STH 22

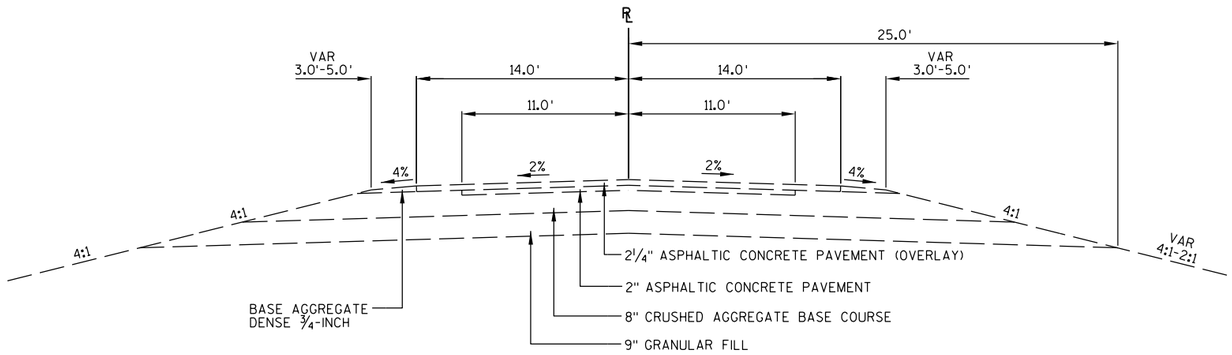
STA 170+45.50 TO STA 175+00.00

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TYPICAL SECTIONS	SHEET 7	E

2

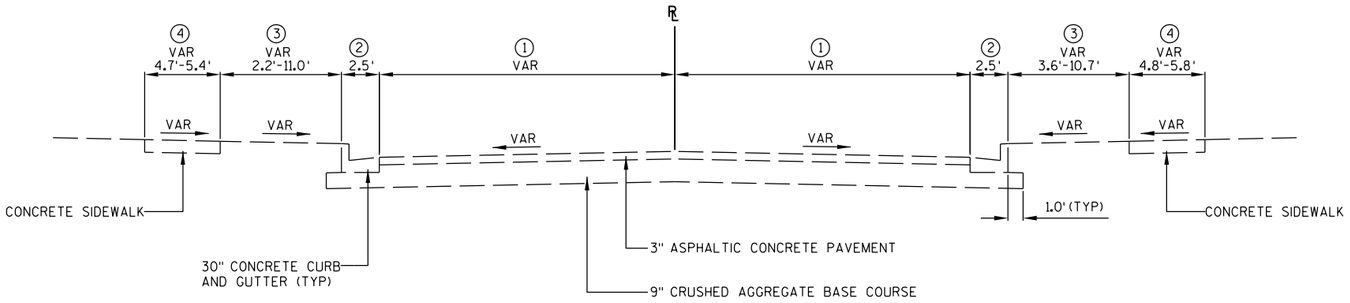


TYPICAL EXISTING SIDEROAD SECTION
GREEN TREE ROAD



TYPICAL EXISTING SIDEROAD SECTION
STH 156

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TYPICAL SECTIONS	SHEET 8	E



TYPICAL EXISTING SIDEROAD SECTION

14TH STREET WEST
14TH STREET EAST
15TH STREET
16TH STREET
HARRIET STREET
17TH STREET
18TH STREET
19TH STREET
20TH STREET
N PARK STREET

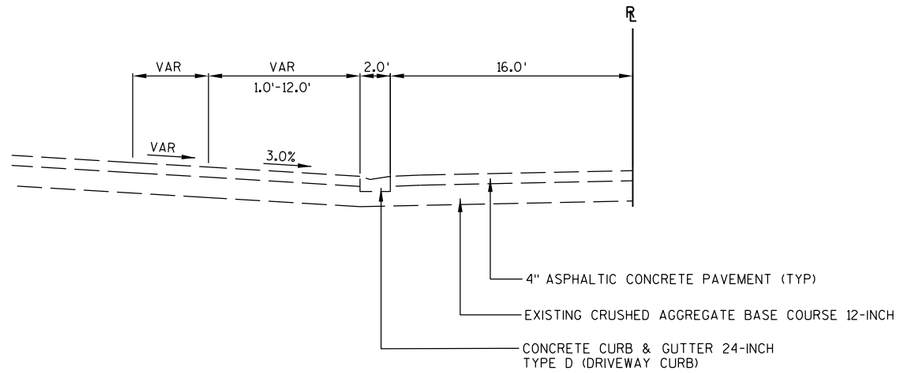
(1) EXISTING ASPHALT SIDEROAD WIDTHS:
- 14TH STREET 14.6'
- 14TH STREET 16.0'
- 15TH STREET 21.9'
- 16TH STREET 20.0'
- HARRIET STREET 12.8'
- 17TH STREET 16.8'
- 18TH STREET 13.4'
- 19TH STREET 17.5'
- 20TH STREET 18.0'
- N PARK STREET 16.7'

(2) EXISTING 24" CONCRETE CURB AND GUTTER LOCATIONS:
- 17TH STREET
- N PARK STREET

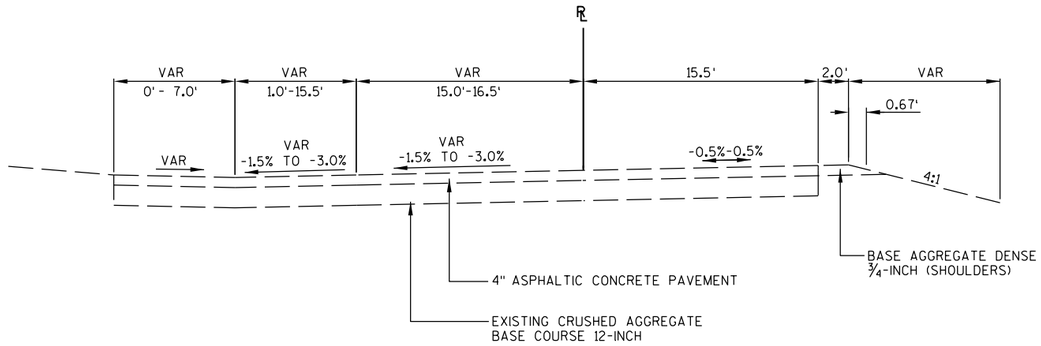
(3) NO TERRACE EXISTS AT THE FOLLOWING LOCATIONS:
- 15TH STREET
- 16TH STREET

(4) NO SIDEWALK EXISTS AT THE FOLLOWING LOCATIONS:
- 17TH STREET RT
- N PARK STREET LT & RT

2



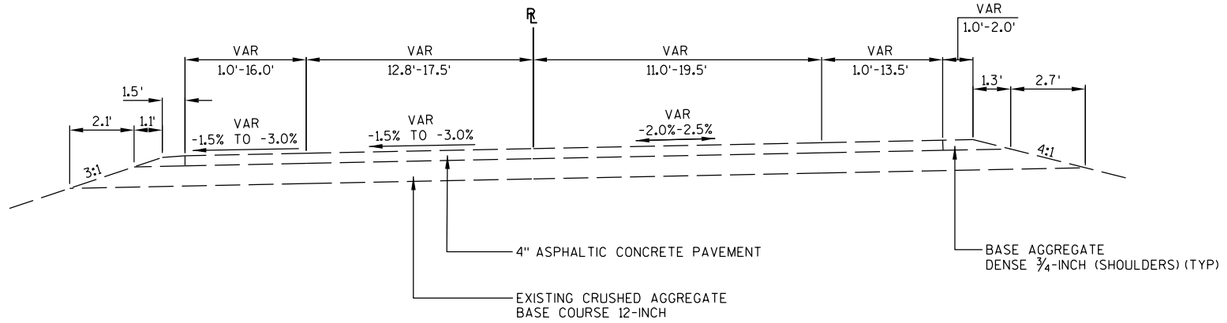
TYPICAL EXISTING SECTION (DETOUR)
LYON STREET
STA 338+72.80L TO STA 339+94.70L



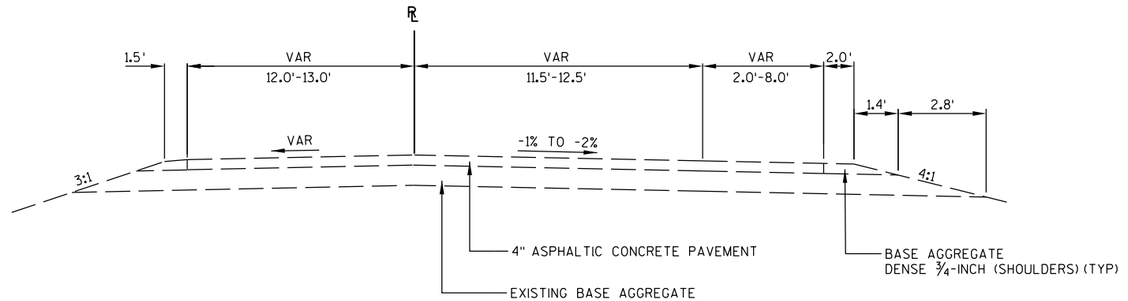
TYPICAL EXISTING SECTION (DETOUR)
E 12TH STREET
STA 332+69.7W TO STA 333+22.7W

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TYPICAL SECTIONS	SHEET 10	E

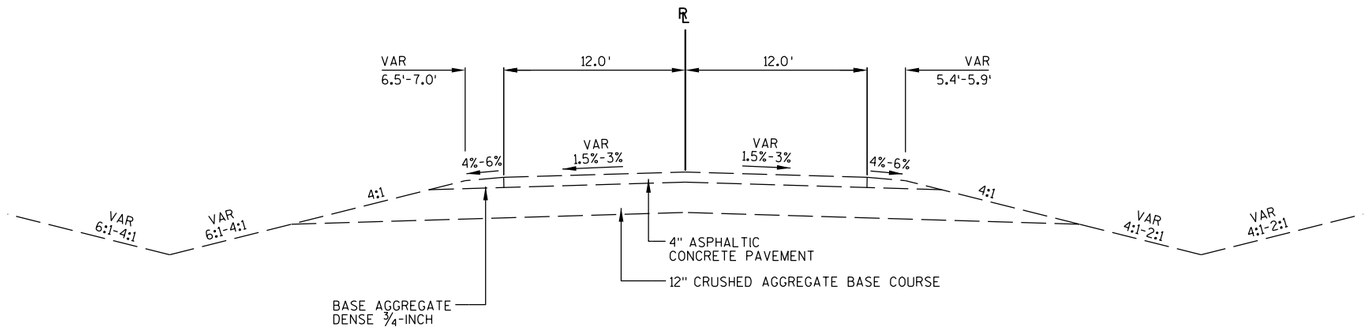
2



TYPICAL EXISTING SECTION (DETOUR)
E 12TH STREET / SSGT WARREN HANSEN DRIVE
STA 333+22.7 TO STA 334+24.6

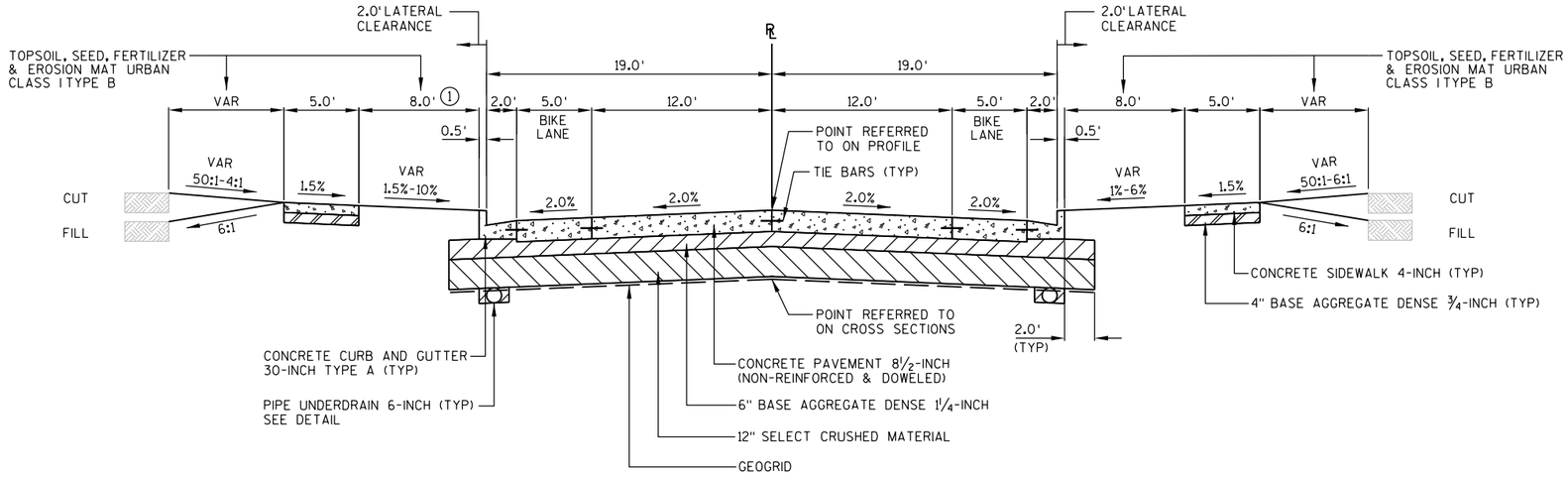


TYPICAL EXISTING SECTION (DETOUR)
E 12TH STREET / SSGT WARREN HANSEN DRIVE
STA 334+24.6 TO STA 334+91.0

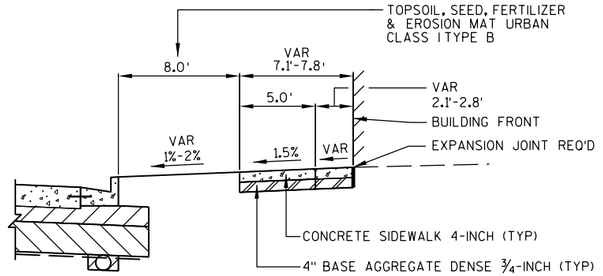


TYPICAL EXISTING SECTION (DETOUR)
INDUSTRIAL AVENUE

2



TYPICAL FINISHED SECTION
STH 22
STA 130+50.00 TO STA 144+60.44

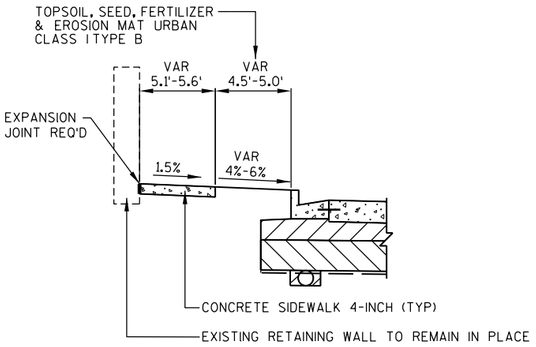


TYPICAL FINISHED SECTION
STH 22
STA 139+55.1 TO STA 140+48.6 RT

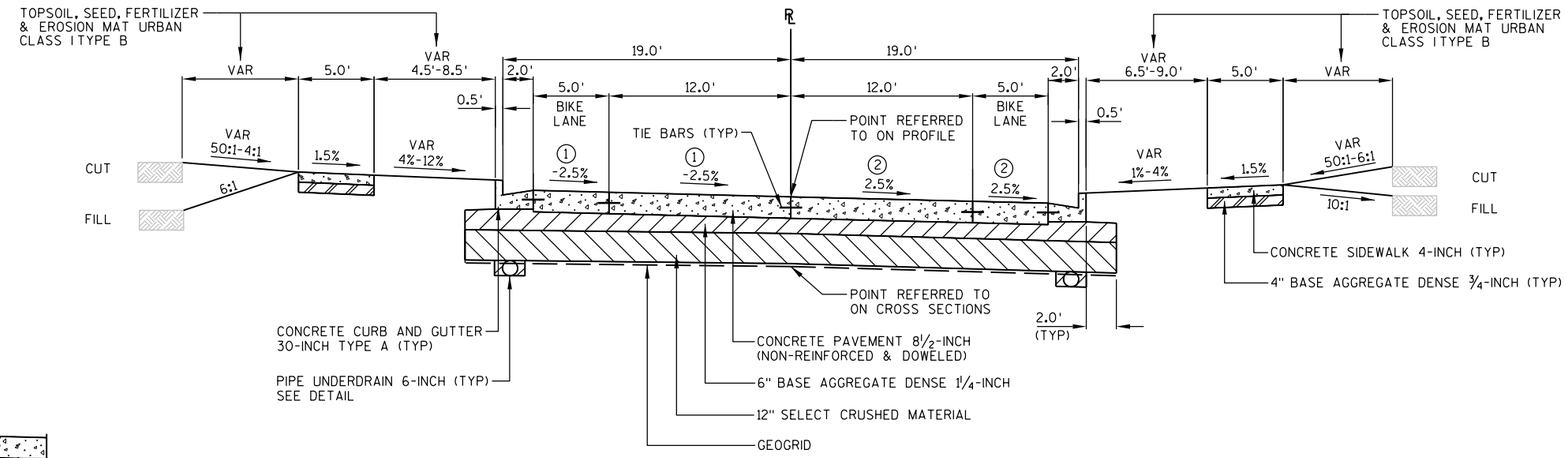
NOTES:

(1) TERRACE WIDTH VARIES 6.5'-8.0' FROM STA 130+50 TO STA 130+66.4 LT

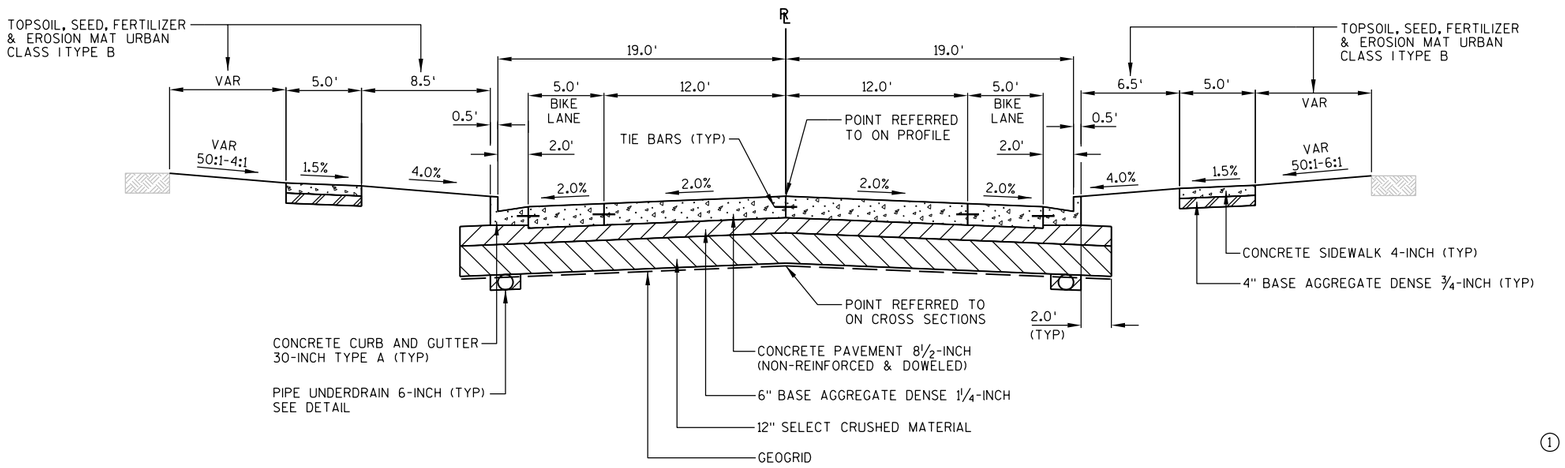
2



TYPICAL FINISHED SECTION
STH 22
STA 156+05.8 TO STA 156+59.5 LT
STA 157+45.8 TO STA 157+75.1 LT



TYPICAL FINISHED SECTION
STH 22
STA 144+60.44 TO STA 159+00.00

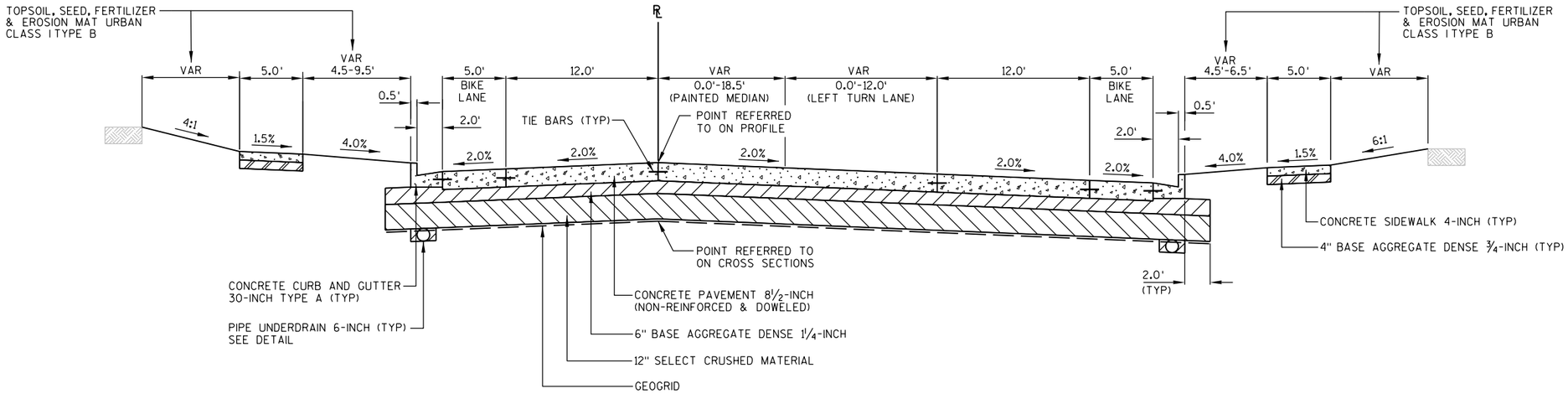


TYPICAL FINISHED SECTION
STH 22
STA 159+00.00 TO STA 165+68.42

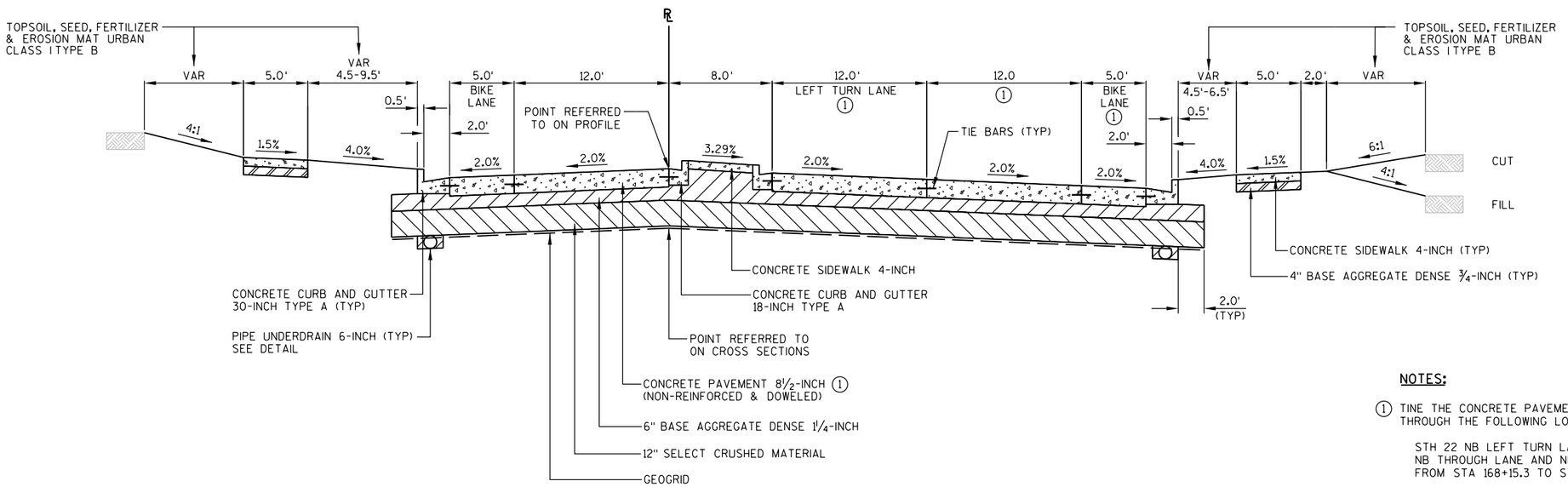
NOTES:

① TRANSITION CROSS SLOPES FROM: 2% TO -2.5% FROM STA 144+88.45 TO STA 146+00.00 AND -2.5% TO 2% FROM STA 157+72.78 TO STA 159+00.00

② TRANSITION CROSS SLOPES FROM: 2% TO 2.5% FROM STA 145+50.00 TO STA 146+00.00 AND 2.5% TO 2% FROM STA 157+88.45 TO STA 158+30.00



TYPICAL FINISHED SECTION
STH 22
STA 165+68.42 TO STA 168+15.31



TYPICAL FINISHED SECTION
STH 22
STA 168+15.31 TO STA 169+83.41

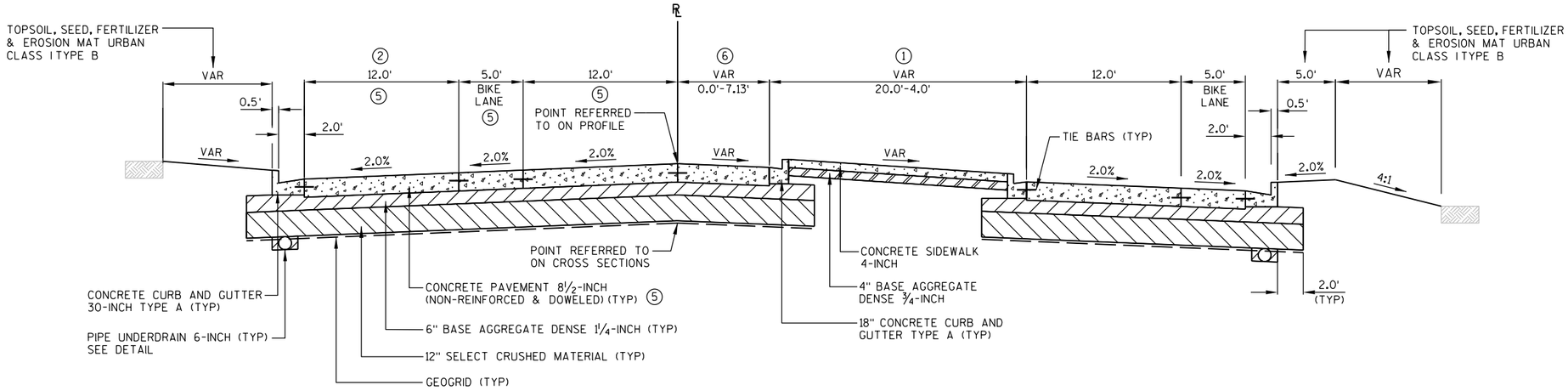
NOTES:

(1) TINE THE CONCRETE PAVEMENT THROUGH THE FOLLOWING LOCATIONS:

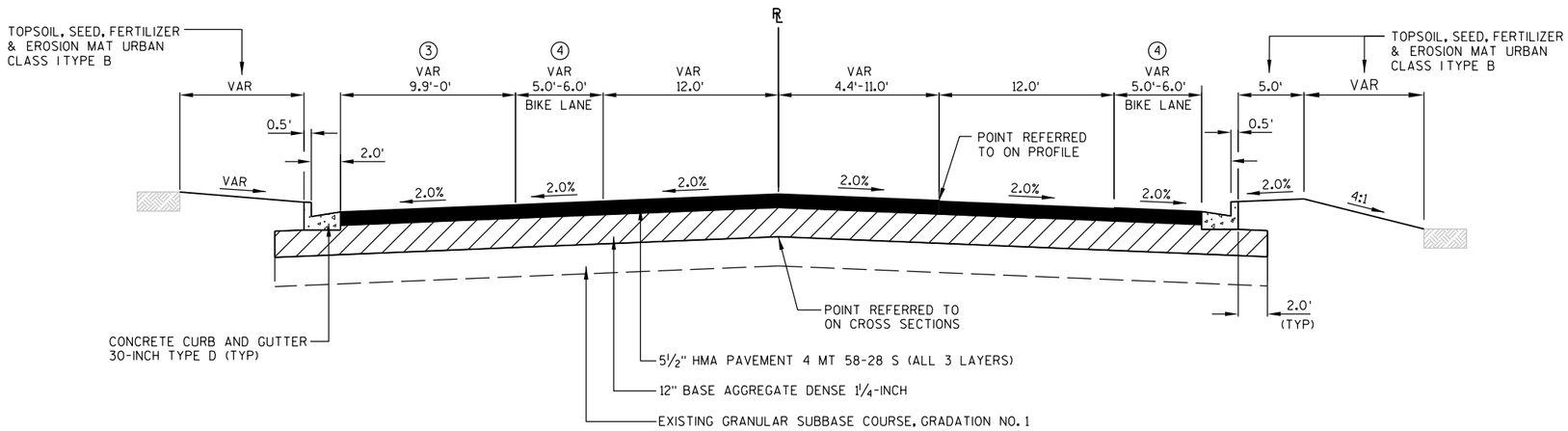
STH 22 NB LEFT TURN LANE, NB THROUGH LANE AND NB BIKE LANE FROM STA 168+15.3 TO STA 169+18.

STH 22 SB RIGHT TURN LANE, SB THROUGH LANE AND SB BIKE LANE FROM STA 170+50 TO STA 171+42.3.

GREEN TREE ROAD EB RIGHT TURN LANE AND EB THROUGH LANE FROM STA 313+98.2 TO STA 314+56.



TYPICAL FINISHED SECTION
STH 22
STA 169+83.41 TO STA 171+42.30



TYPICAL FINISHED SECTION
STH 22
STA 171+42.30 TO STA 172+16.81

NOTES:

(1) RAISED CONCRETE MEDIAN WIDTH VARIES FROM 0.0'-18.0' FROM STA 170+27.05 TO STA 171+41.78

(2) RIGHT TURN LANE WIDTH VARIES FROM 12.0'-9.9' FROM STA 171+28.81 TO STA 171+42.30

(3) RIGHT TURN LANE VARIES FROM 9.9'-0.0' FROM STA 171+42.30 TO STA 172+16.81

(4) BIKE LANE WIDTHS WIDEN TO 6.0' AT STA 172+16.81 LT AND 172+14.31 RT (REFER TO PAVEMENT MARKING PLANS)

(5) TINE THE CONCRETE PAVEMENT THROUGH THE FOLLOWING LOCATIONS:

STH 22 NB LEFT TURN LANE, NB THROUGH LANE AND NB BIKE LANE FROM STA 168+15.3 TO STA 169+18.

STH 22 SB RIGHT TURN LANE, SB THROUGH LANE AND SB BIKE LANE FROM STA 170+50 TO STA 171+42.3.

GREEN TREE ROAD EB RIGHT TURN LANE AND EB THROUGH LANE FROM STA 313+98.2 TO STA 314+56.

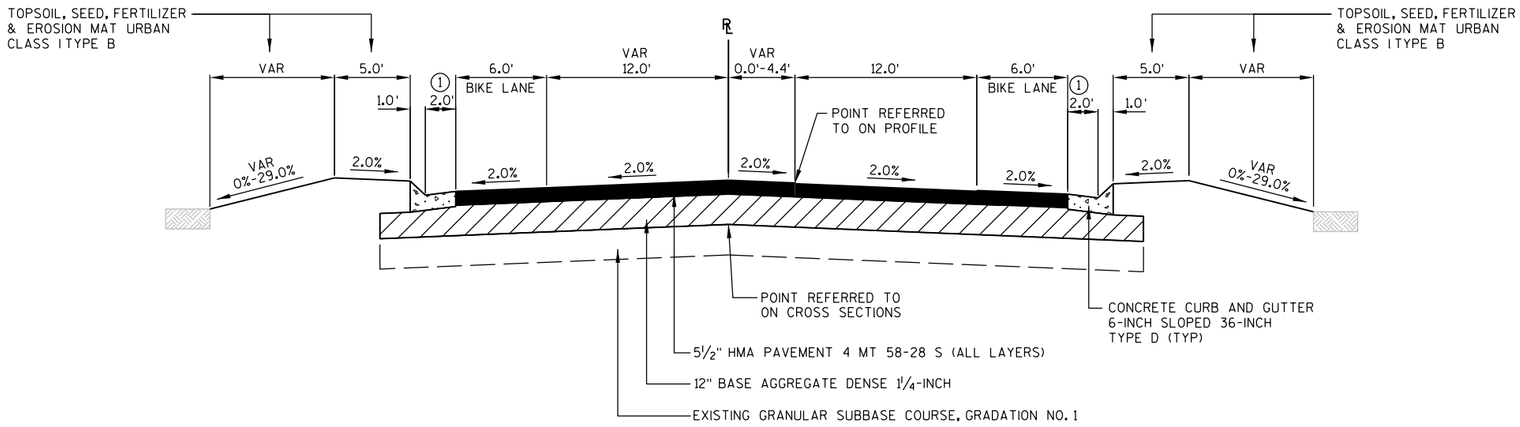
(6) VARIES 7.13' TO 0' FROM STA 170+27.0 TO STA 170+55.4.

0' FROM STA 170+55.4 TO STA 171+12.3.

VARIES 0' TO 4.19' FROM STA 171+12.3 TO STA 171+41.8.

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TYPICAL SECTIONS	SHEET 15	E

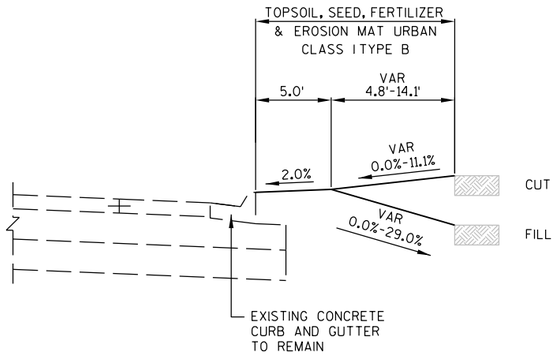
2



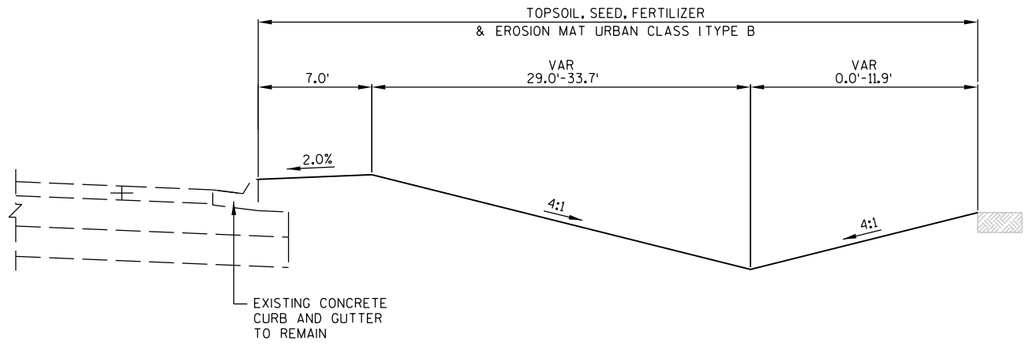
TYPICAL FINISHED SECTION
STH 22
STA 172+16.81 TO STA 175+00.00

NOTES:

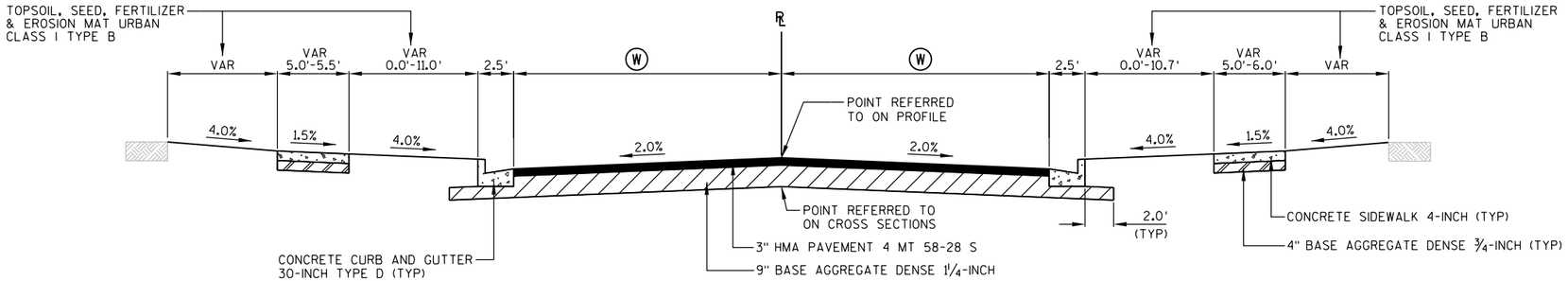
(1) END CONCRETE CURB AND GUTTER 30-INCH TYPE D AND BEGIN CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D AT STA 173+04.16 RT AND STA 173+78.89 LT. TRANSITION FROM ONE TYPE TO THE OTHER IN 10.0'.



TYPICAL FINISHED SECTION
STH 22
STA 175+00.00 TO STA 180+75.00

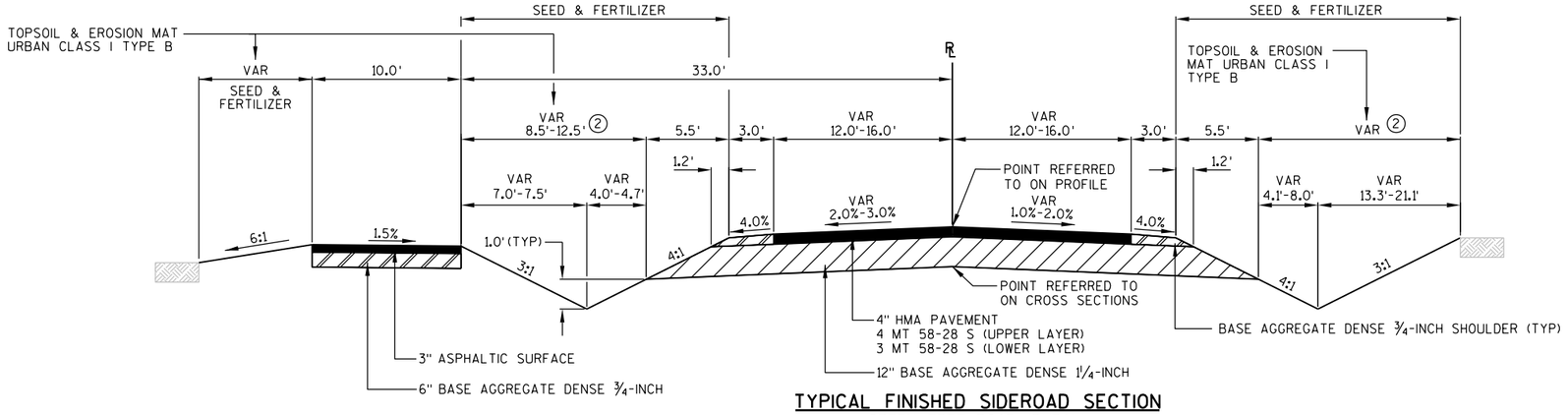


TYPICAL FINISHED SECTION
STH 22
STA 180+75.00 TO STA 183+00.00



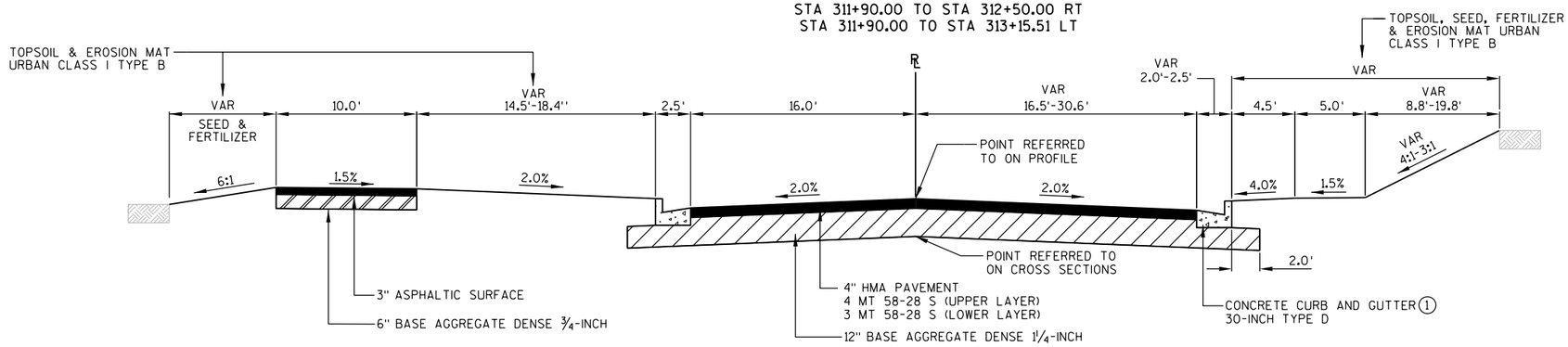
TYPICAL FINISHED SIDEROAD SECTION

	Ⓦ
W 14TH STREET	14.6'
E 14TH STREET	16.0'
15TH STREET	21.9'
16TH STREET	20.0'
HARRIET STREET	12.8'
17TH STREET	16.3'
18TH STREET	13.4'
19TH STREET	17.5'
20TH STREET	18.0'
N PARK STREET	16.4'



TYPICAL FINISHED SIDEROAD SECTION

GREEN TREE ROAD (RURAL)
STA 311+90.00 TO STA 312+50.00 RT
STA 311+90.00 TO STA 313+15.51 LT



TYPICAL FINISHED SIDEROAD SECTION

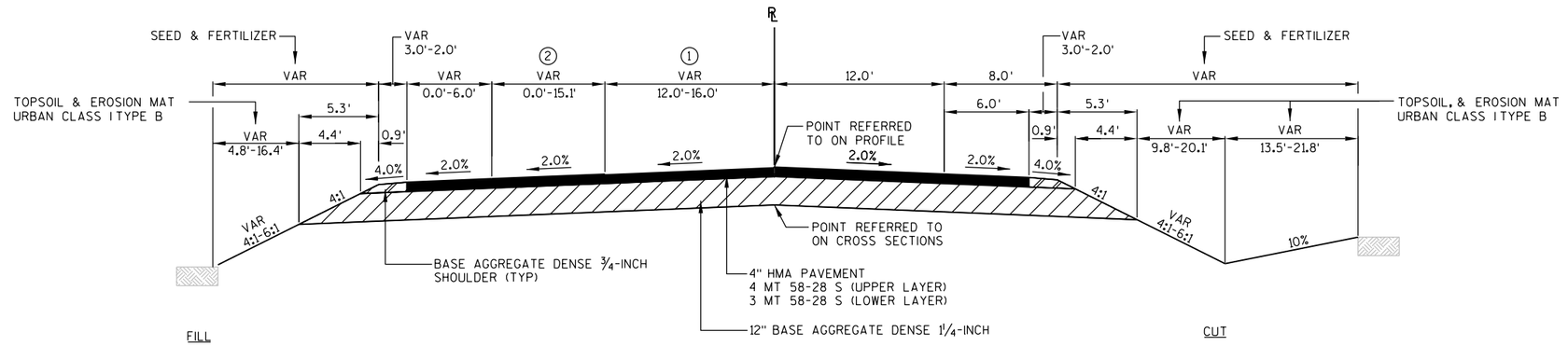
GREEN TREE ROAD (URBAN)
STA 312+50.00 TO STA 313+98.21 RT
STA 313+15.51 TO STA 313+98.21 LT

NOTES:

① 24-INCH TYPE D CONCRETE CURB AND GUTTER STA 312+50 TO STA 313+02.51. TRANSITION FROM ONE TYPE TO THE OTHER IN 10.0'.

② REFER TO PLAN AND PROFILE SHEETS FOR LOCATIONS OF RIPRAP LIGHT.

2



TYPICAL FINISHED SIDEROAD SECTION

STH 156
STA 316+13.31 TO STA 318+00.00

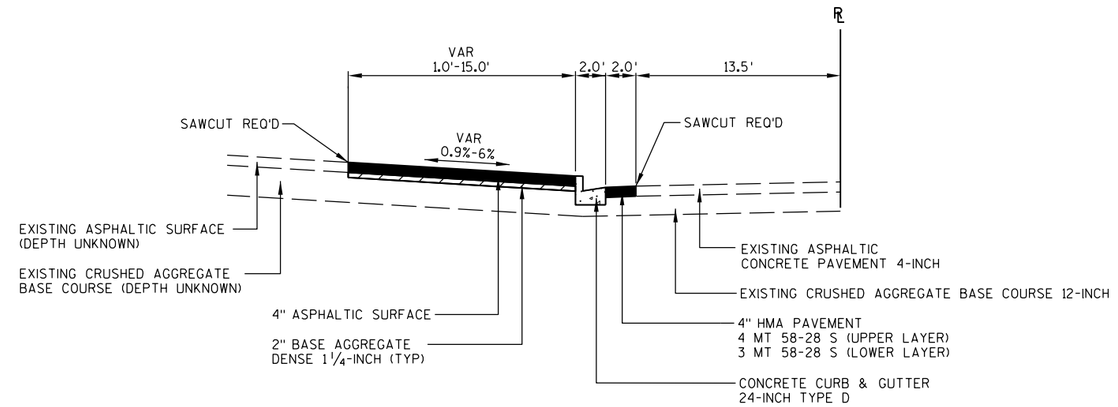
NOTES:

① LANE WIDTH VARIES FROM 16.0' TO 12.0' AT STA 316+96.29 LT TO STA 317+40.32 LT.

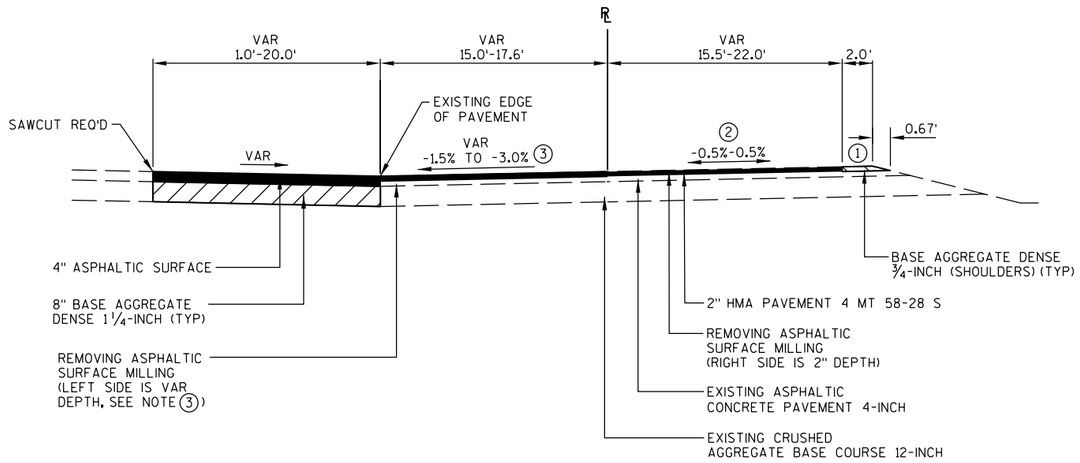
② RIGHT TURN LANE WIDTH VARIES FROM 15.1' TO 0.0' AT STA 316+13.31 TO STA 316+96.29.

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TYPICAL SECTIONS	SHEET 18	E

2



④ TYPICAL SECTION (DETOUR)
LYON STREET
STA 338+72.80L TO STA 339+76.99L LT



④ TYPICAL FINISHED SECTION (DETOUR)
E 12TH STREET
STA 332+69.67W TO STA 333+43.3W

NOTES:

① MATCH ADJACENT PAVEMENT CROSS SLOPE

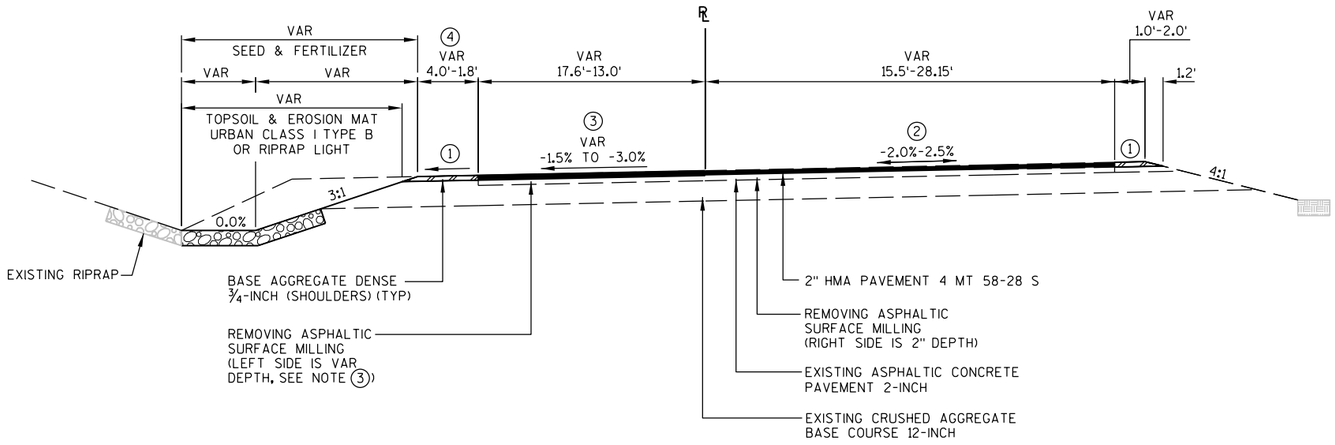
② MATCH EXISTING CROSS SLOPE

③ MILL & OVERLAY TO THE FOLLOWING CROSS SLOPES
(NEGATIVE SLOPE DRAINS AWAY FROM ℄):

STATION	CROSS SLOPES
332+69.00	MATCH EXISTING
332+95.50	-2.50%
333+50.00	-2.50%
334+24.60	MATCH EXISTING

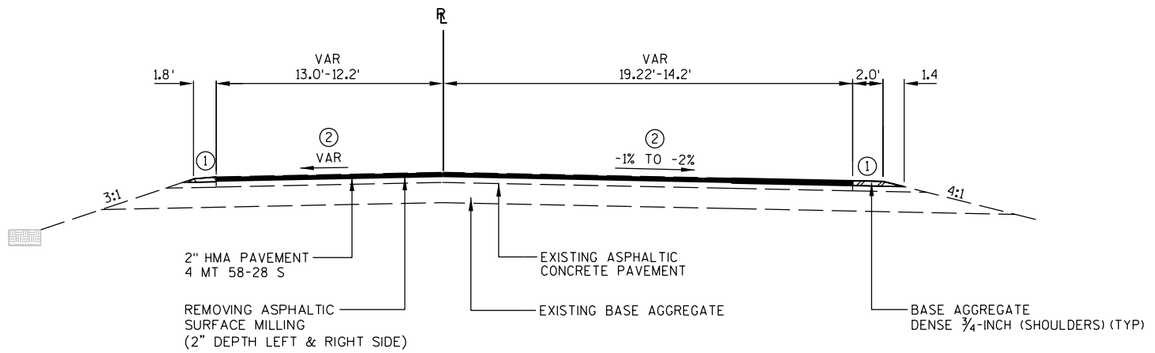
④ TO BE CONSTRUCTED AFTER STH 22 IS RE-OPENED AND DETOUR IS NO LONGER NEEDED.

2



TYPICAL FINISHED SECTION (DETOUR)

E 12TH STREET / SSGT WARREN HANSEN DRIVE
STA 333+43.3W TO STA 334+24.6W



TYPICAL FINISHED SECTION (DETOUR)

E 12TH STREET / SSGT WARREN HANSEN DRIVE
STA 334+24.6W TO STA 334+91.0W

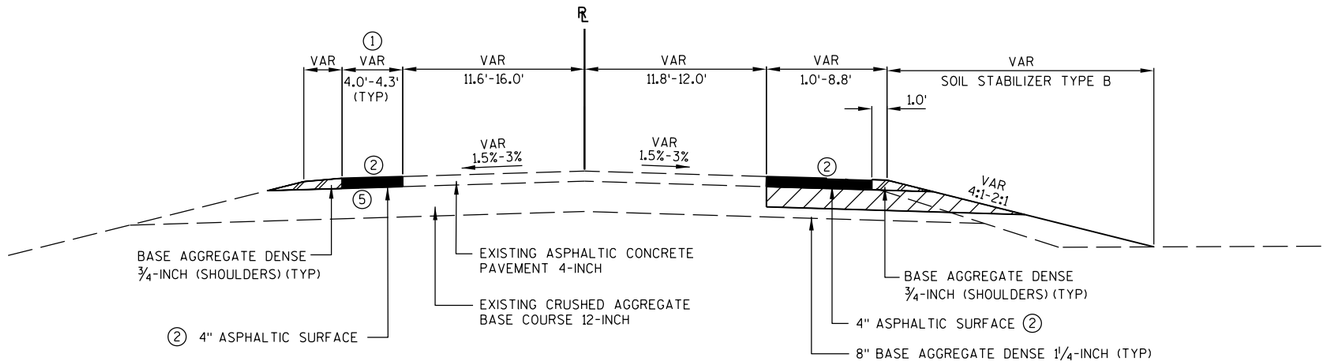
NOTES:

1. MATCH ADJACENT PAVEMENT CROSS SLOPE
2. MATCH EXISTING CROSS SLOPE
3. MILL & OVERLAY TO THE FOLLOWING CROSS SLOPES (NEGATIVE SLOPE DRAINS AWAY FROM ℄):

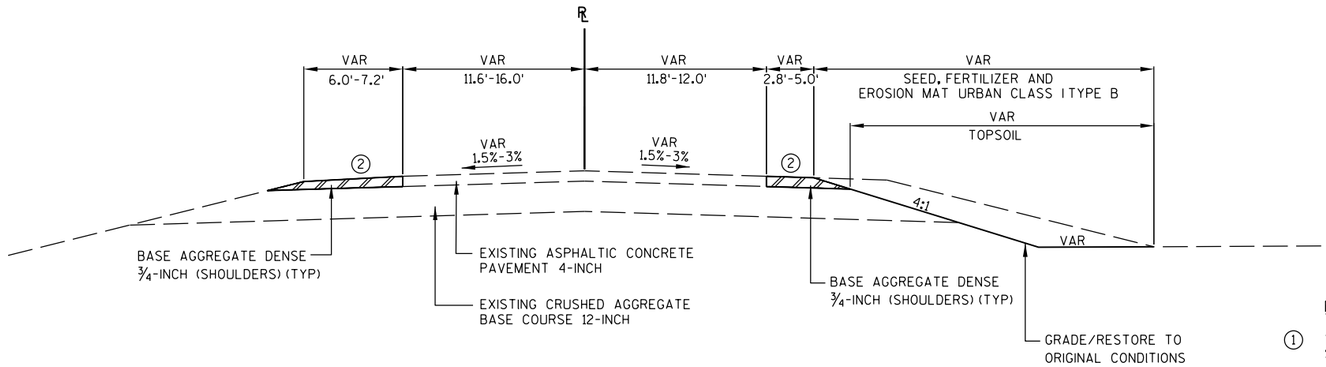
STATION	CROSS SLOPES
332+69.00	MATCH EXISTING
332+95.50	-2.50%
333+50.00	-2.75%
334+24.60	MATCH EXISTING

4. 4.0' WIDE STA 333+43.3W TO STA 334+02.0W
   4.0'-1.8' WIDE STA 334+02.0W TO STA 334+12.0W
   1.8' WIDE STA 334+12.0W TO STA 334+24.6W

2



③ TYPICAL FINISHED SECTION (DETOUR)
INDUSTRIAL AVENUE
STA 101+05.4 TO STA 102+69.3



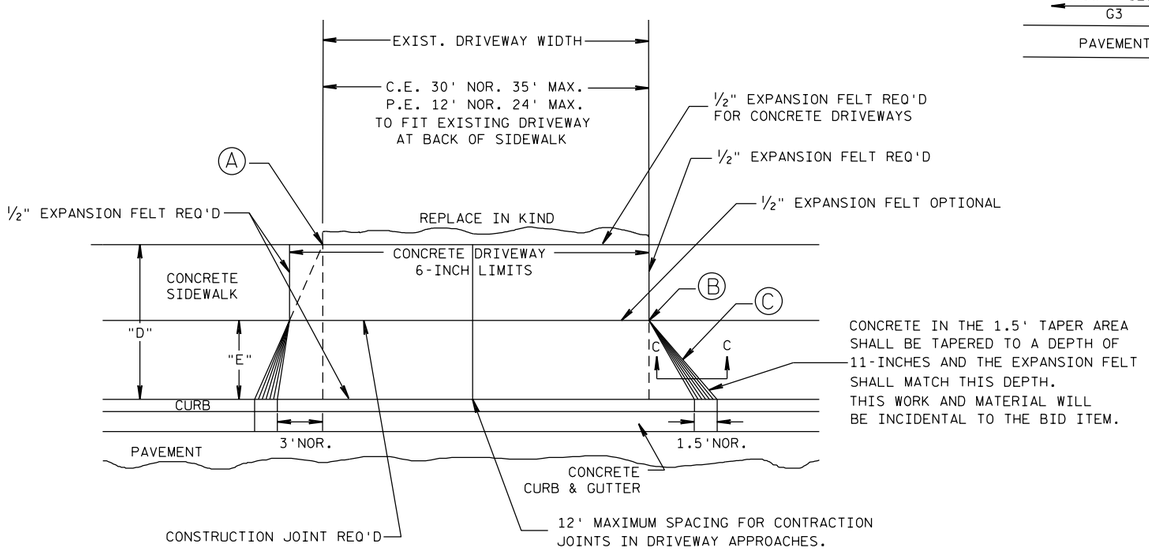
④ TYPICAL FINISHED SECTION (DETOUR)
INDUSTRIAL AVENUE
STA 101+05.4 TO STA 102+69.3

NOTES:

1. TAPERS FROM 4.3' TO 1.0' FROM STA 102+25.37 TO STA 102+59.39.
2. MATCH ADJACENT PAVEMENT CROSS SLOPE.
3. TO BE CONSTRUCTED WHEN STH 22/STH 156 INTERSECTION IS CLOSED TO TRAFFIC.
4. TO BE CONSTRUCTED WHEN STH 22/STH 156 INTERSECTION IS REOPEN TO TRAFFIC.
5. ADD BASE AGGREGATE DENSE 1 1/4-INCH AS NECESSARY FOR CONSTRUCTION OF THE ASPHALTIC SURFACE.

2

DRIVEWAY ENTRANCE DETAIL WITH SIDEWALK, CURB & GUTTER

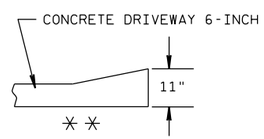


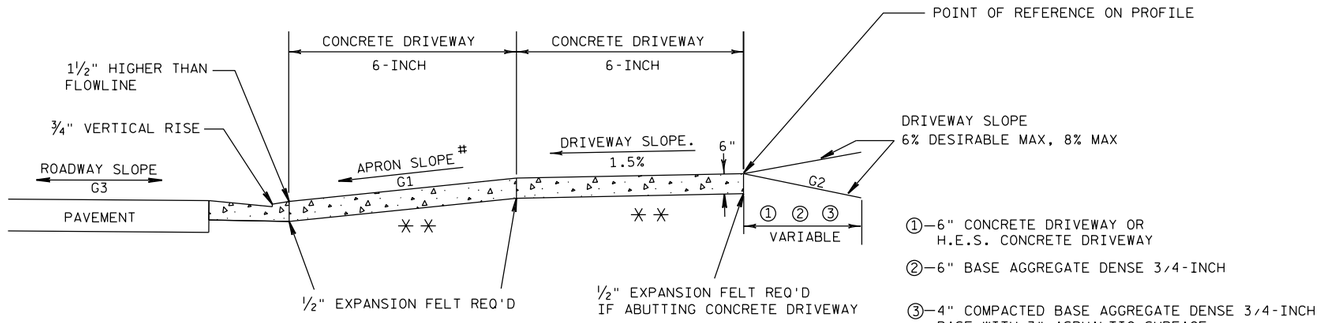
PLAN VIEW

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

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

Ⓒ WHEN "E" = 0 MAKE CURB TAPER 5'



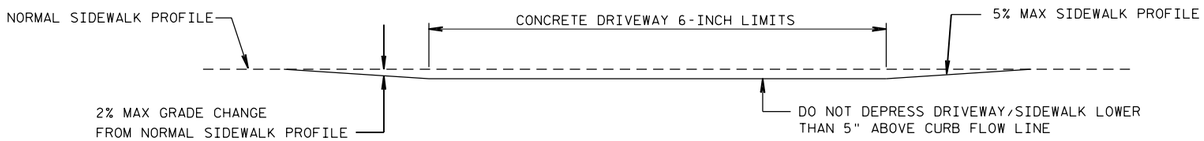


TYPICAL SIDEWALK SECTION

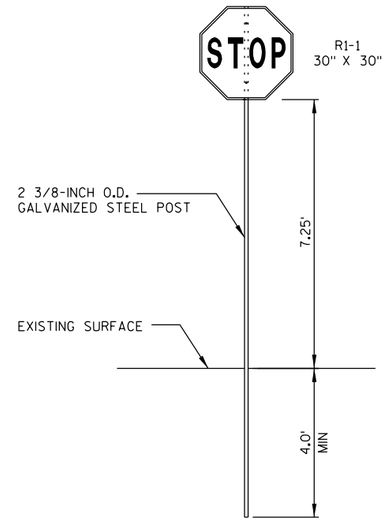
| TERRACE WIDTH | APRON SLOPE (G1) MIN % | DESIRABLE % | MAX % |
|---|---|---|---|
| 3 FT | 5.0 | 6.0 | 8.0 |
| 4 FT | 5.0 | 6.0 | 8.0 |
| 5 FT | 4.0 | 6.0 | 8.0 |
| 6 FT | 4.0 | 6.0 | 8.0 |
| 7 FT | 3.5 | 6.0 | 8.0 |
| 8 FT | 3.0 | 6.0 | 8.0 |

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

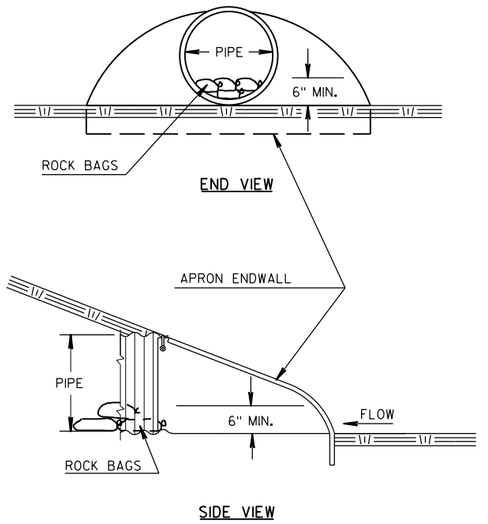
DEPRESS SIDEWALK PROFILE IF DRIVEWAY APRON EXCEEDS MAX SLOPE



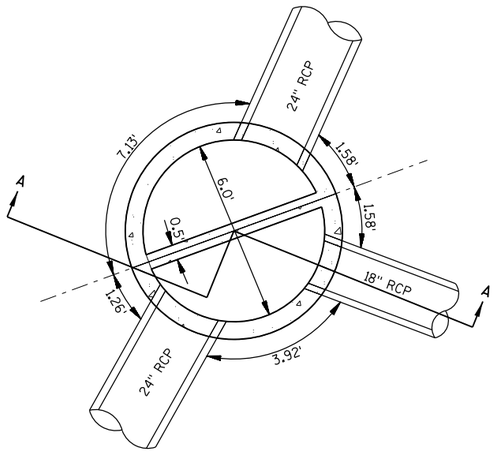
DEPRESSED SIDEWALK PROFILE DETAIL



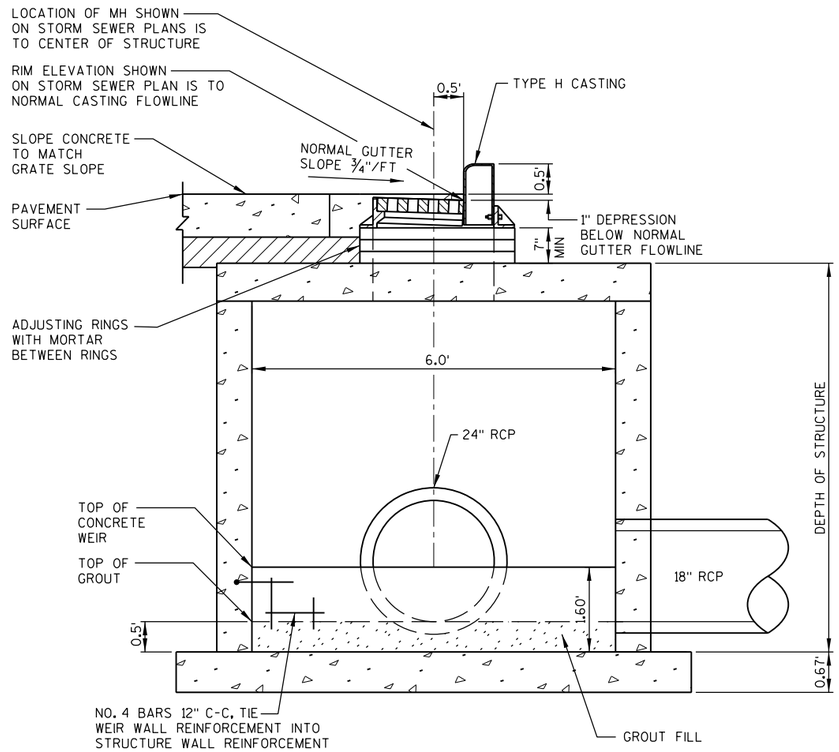
POSTS STEEL 2 3/8-INCH DIAMETER (LENGTH)



CULVERT PIPE CHECKS

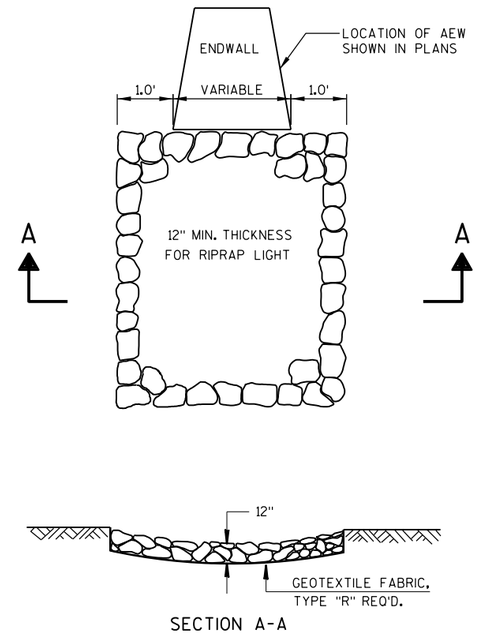


PLAN



SECTION A-A

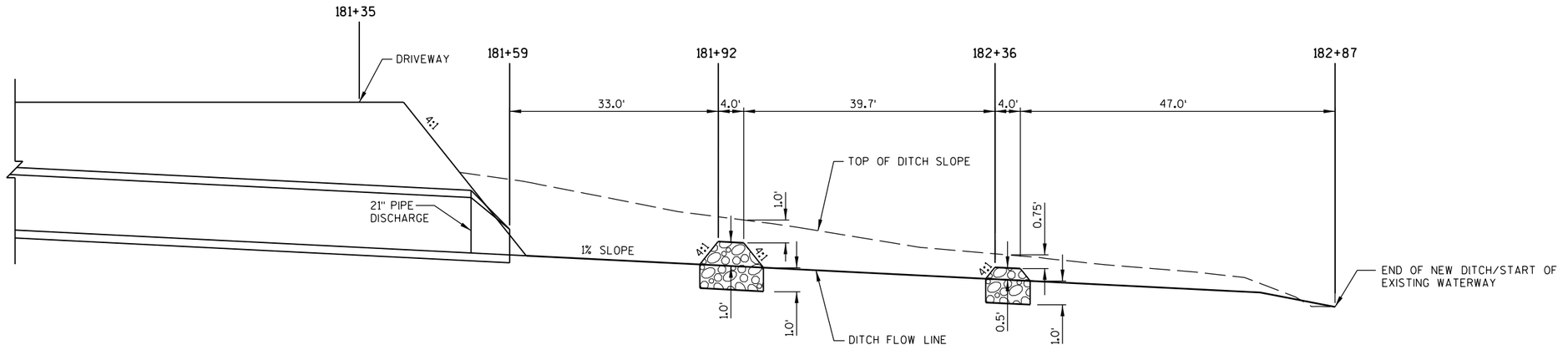
MH SPLIT FLOW
(STA 159+14.75 RT)



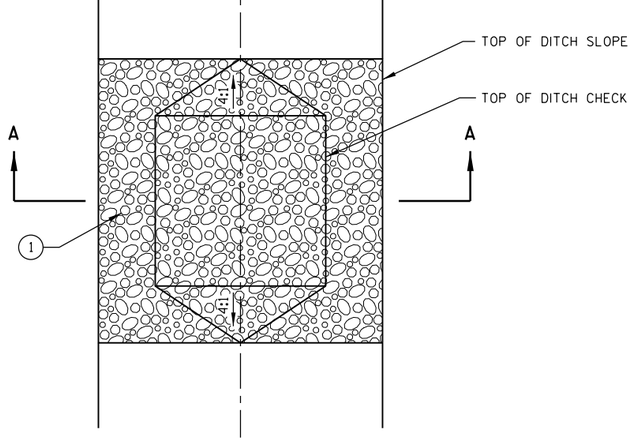
SECTION A-A

RIPRAP TREATMENT

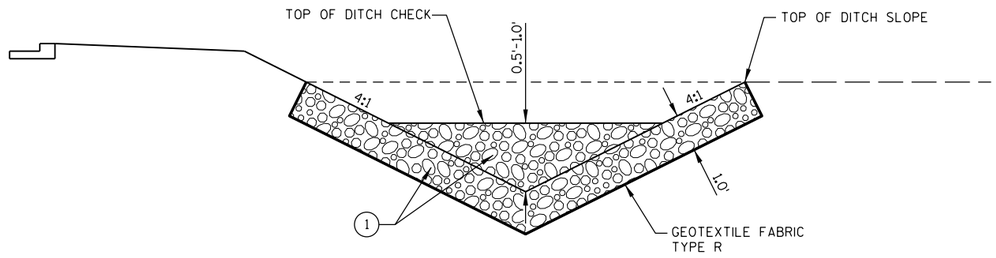
2



PROFILE VIEW



TOP VIEW

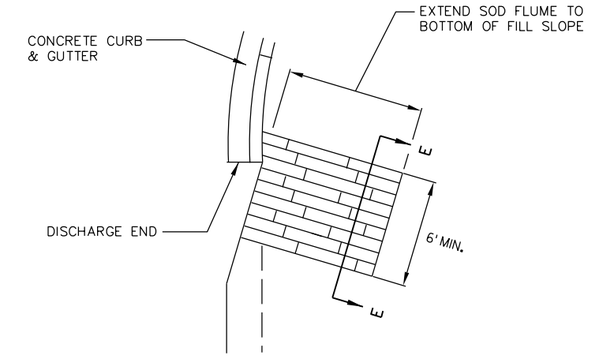


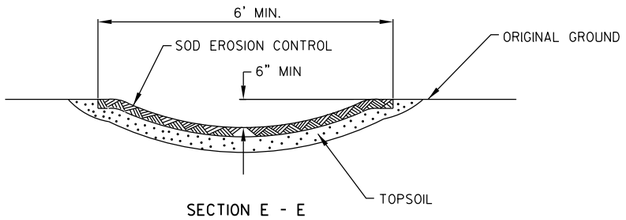
SECTION A-A

(1) CONSTRUCT THE BERM WITH RIPRAP LIGHT

PERMANENT DITCH CHECKS

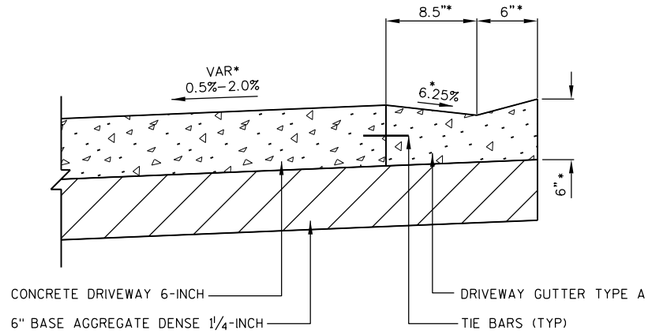
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CONSTRUCTION DETAILS	SHEET 24	E





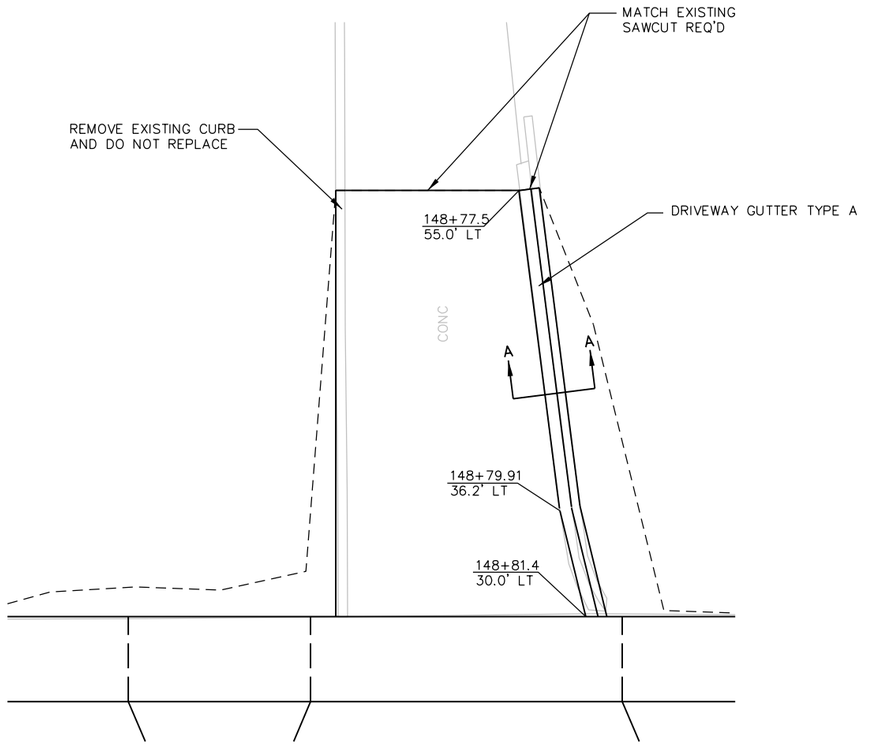
SECTION E - E

SOD FLUME DETAIL AT CURB ENDS



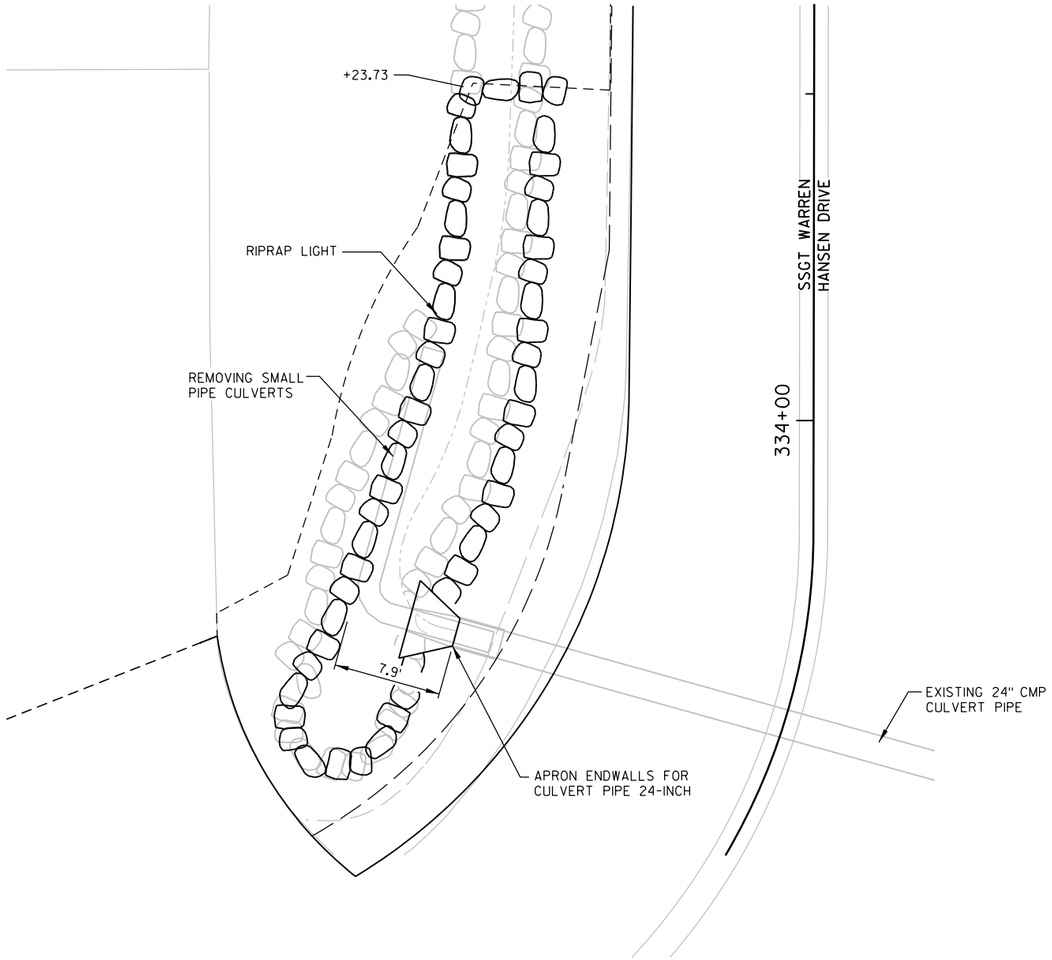
* ADJUST TO MATCH EXISTING
GUTTER DIMENSIONS AND SHAPE

SECTION A-A



CONCRETE DRIVEWAY

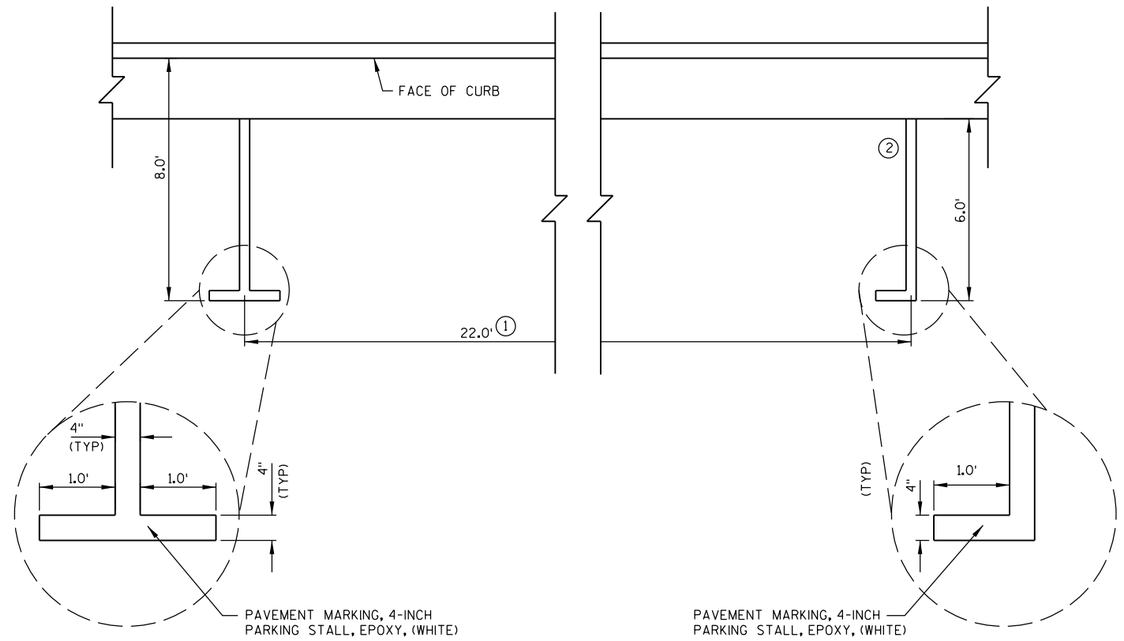
STA 148+74.4 LT



REMOVING PIPE CONNECTION

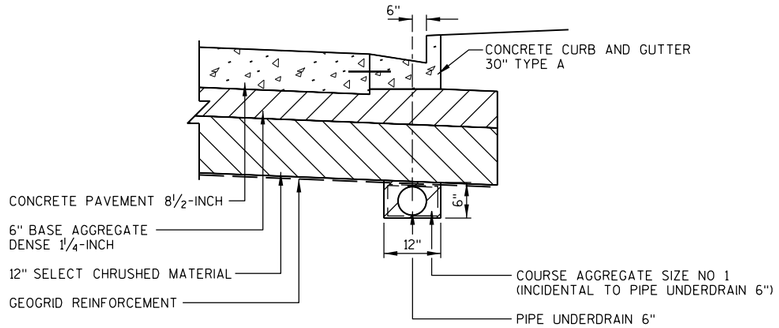
NOTES:

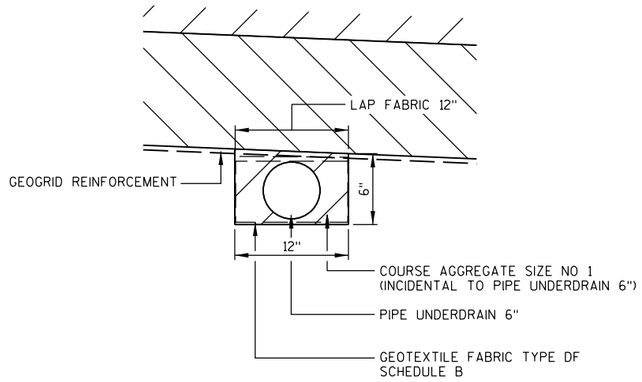
1. PARKING STALL LENGTH IS 22.0' UNLESS OTHERWISE NOTED IN PAVEMENT MARKING PLAN.
2. 15TH STREET ONLY REQUIRES END OF STALL MARKING.



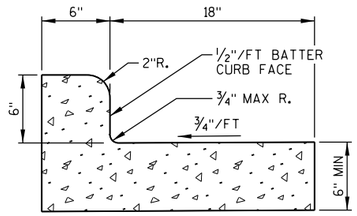
PARKING STALLS

15TH STREET
16TH STREET

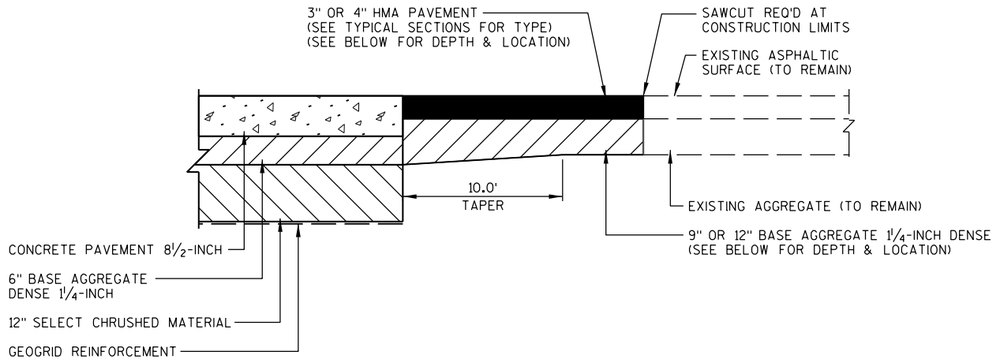




PIPE UNDERDRAIN



CONCRETE CURB & GUTTER
24-INCH, TYPE D



PAVEMENT TRANSITION AT SIDE ROADS

4" HMA OVER 12" BASE AGGREGATE
GREEN TREE ROAD

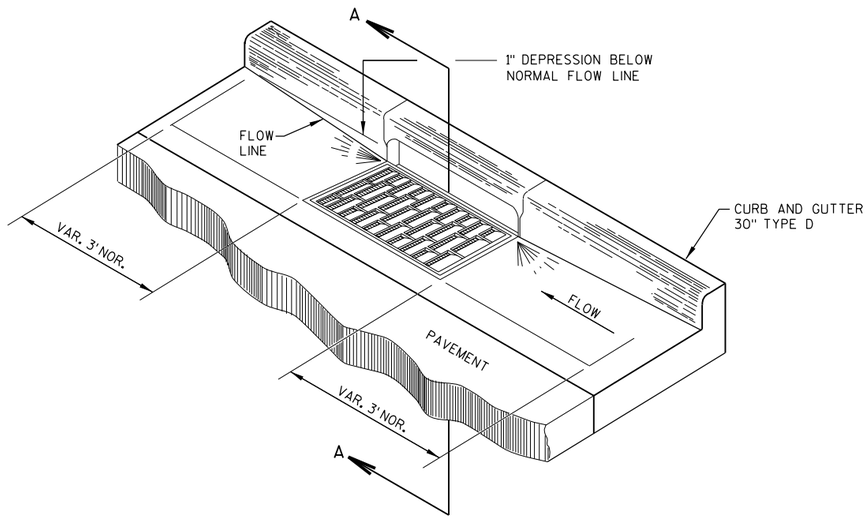
3" HMA OVER 9" BASE AGGREGATE
W 14TH STREET
E 14TH SREET
15TH STREET
16TH STREET
HARRIET STREET
17TH STREET
18TH STREET
19TH STREET
20TH STREET
N PARK STREET

RUNOFF COEFFICIENT TABLE

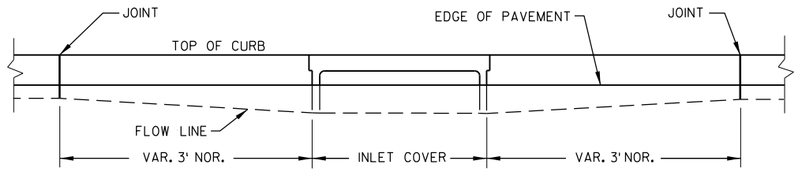
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .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 = 9.549 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 2.944 ACRES

2



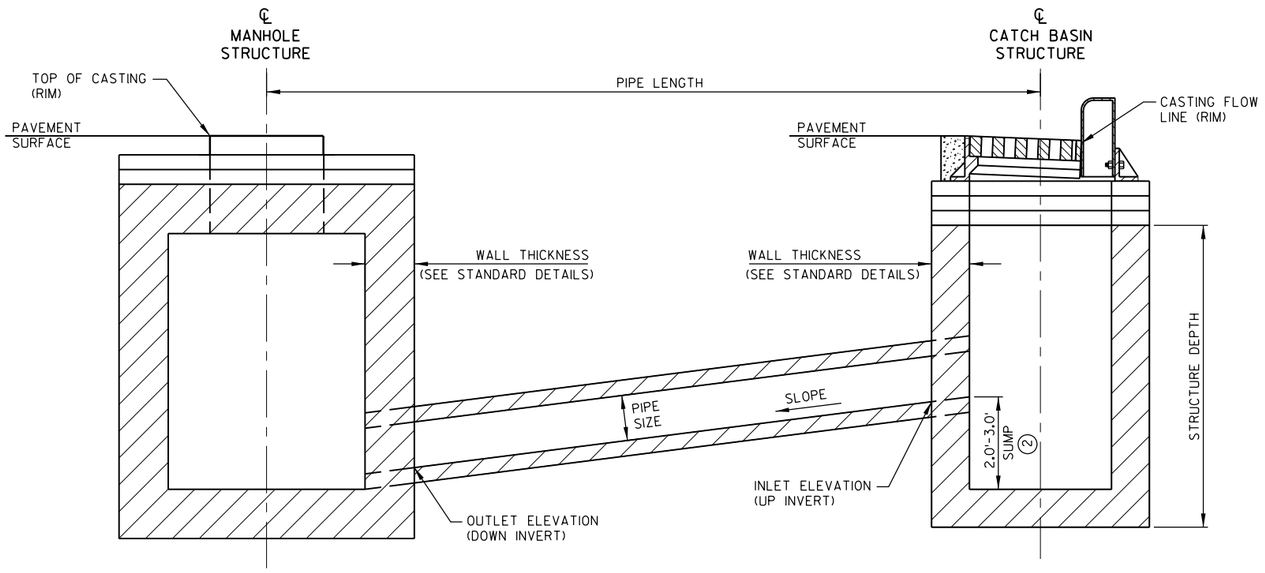
CATCH BASIN



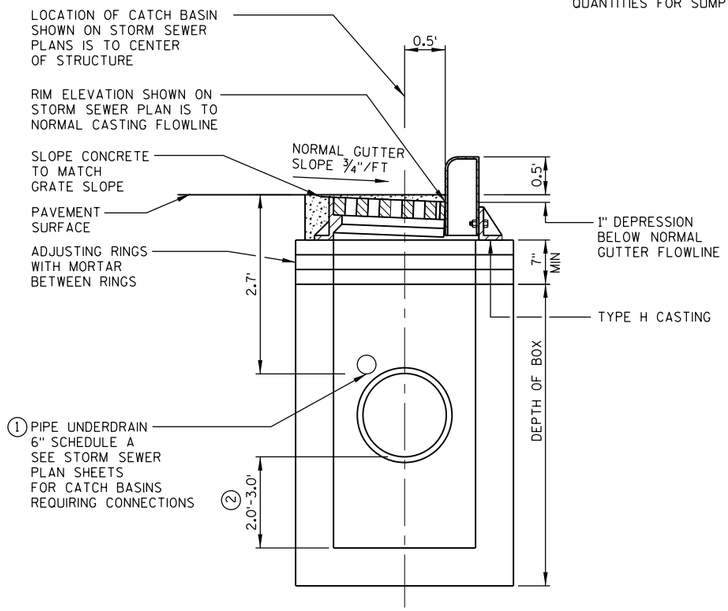
ELEVATION

NOTE:

1. CONNECTION OF PIPE UNDRAIN 6" SCHEDULE A SHALL BE INCIDENTAL TO THE INLET OR CATCH BASIN
2. REFER TO STORM SEWER PLAN AND MISCELLANEOUS QUANTITIES FOR SUMP DEPTHS.

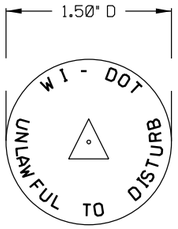


STORM SEWER MEASUREMENT



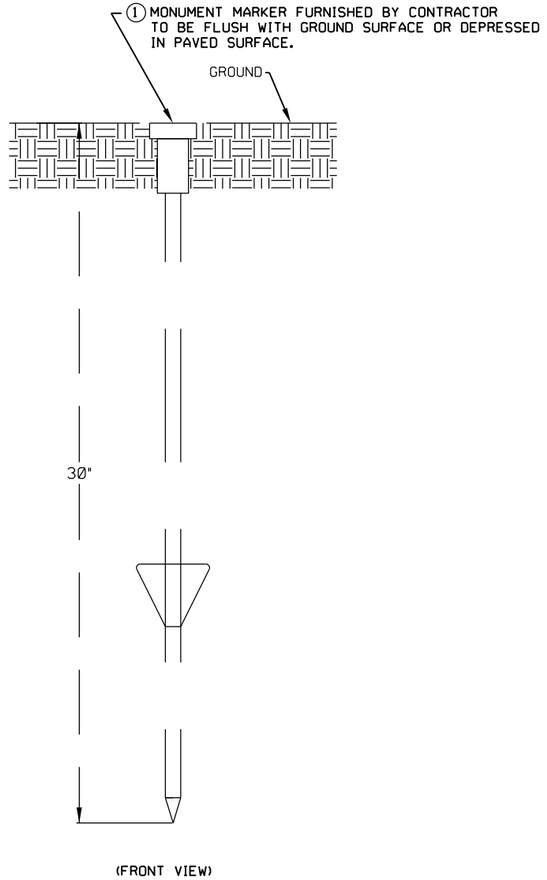
SECTION A-A

2



① WIS DOT MONUMENT CAP MARKER LOGO (SSDR130)

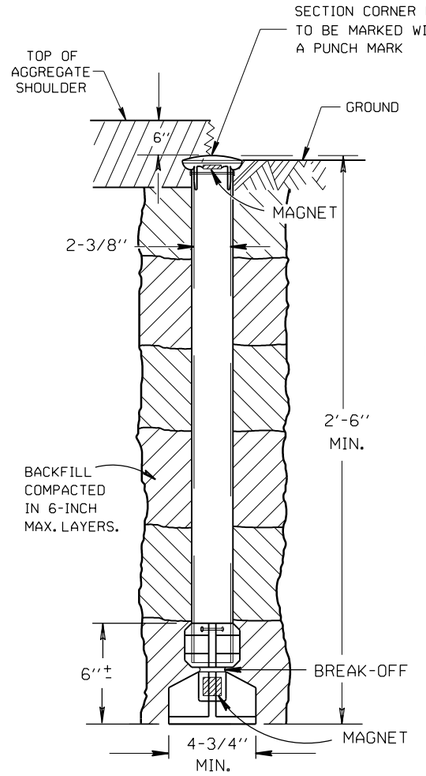
CONTRACTOR TO ORDER LANDMARK REFERENCE MONUMENTS WITH THE ABOVE STAMPING



(FRONT VIEW)

BERNTSEN DRIVABLE MONUMENT SSDR130

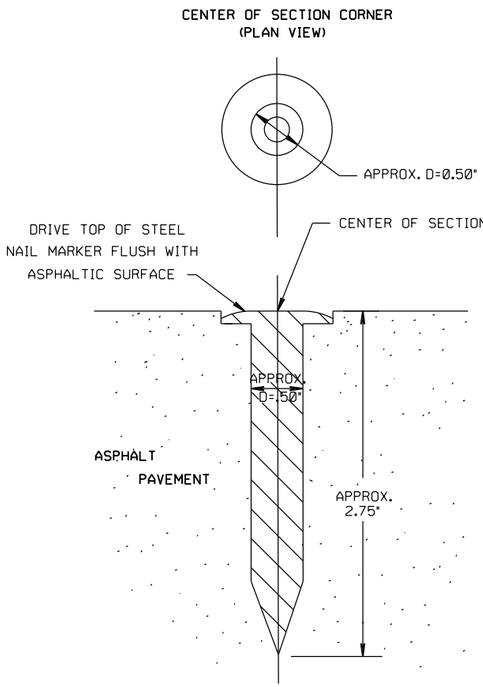
LANDMARK REFERENCE MONUMENT (TIES ONLY)



(SIDE VIEW)

OUTSIDE OF PAVEMENT

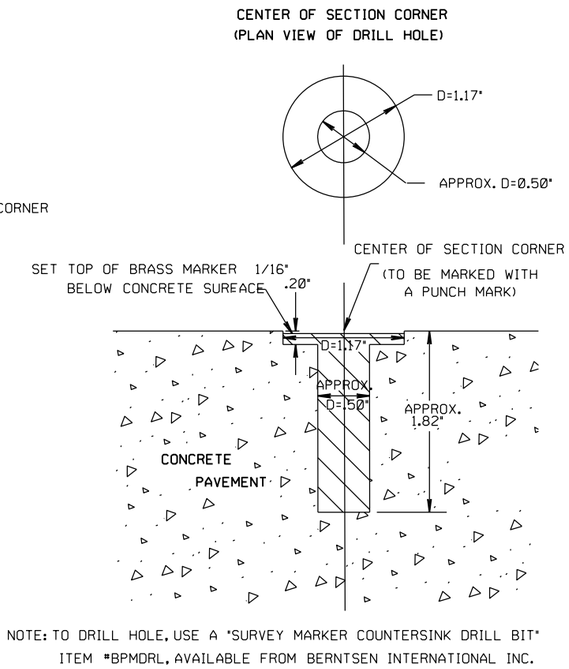
① BERNTSEN A1BR30 ALUMINUM BREAK-OFF MONUMENT



(SIDE VIEW)

IN ASPHALTIC PAVEMENT

① BERNTSEN SNM1 STEEL NAIL MARKER



NOTE: TO DRILL HOLE, USE A "SURVEY MARKER COUNTERSINK DRILL BIT" ITEM #BPMDRL, AVAILABLE FROM BERNTSEN INTERNATIONAL INC.

(SIDE VIEW OF DRILL HOLE)

IN CONCRETE PAVEMENT

① BERNTSEN BP - 1 BRASS MARKER WITH ANCHOR PLUG

SECTION CORNER MONUMENTS

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.

LOCATE LANDMARK REFERENCE MONUMENTS OUTSIDE THE CONSTRUCTION LIMITS AND WITHIN WISDOT RIGHT OF WAY. LOCATION TO BE APPROVED BY THE ENGINEER.

① CONTRACTOR WILL SUPPLY.

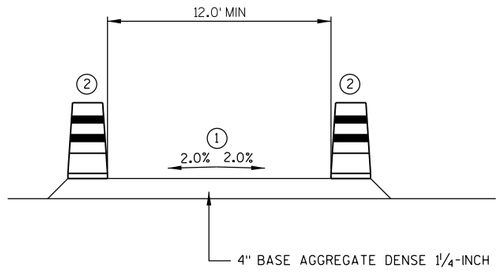
SECTION CORNER MONUMENT AND LANDMARK REFERENCE MONUMENT

2

NOTES:

1. SLOPE BASE AGGREGATE DENSE TOWARDS EDGE OF ROADWAY.
2. MAINTAIN 10.0' SPACING WITH TRAFFIC CONTROL DRUMS OR AS SPECIFIED BY THE FIELD ENGINEER.

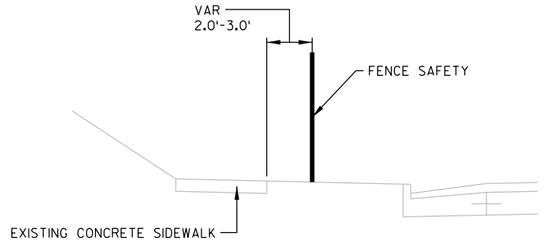
   GAP DRUMS AS NECESSARY TO ALLOW ACCESS TO DRIVEWAYS.



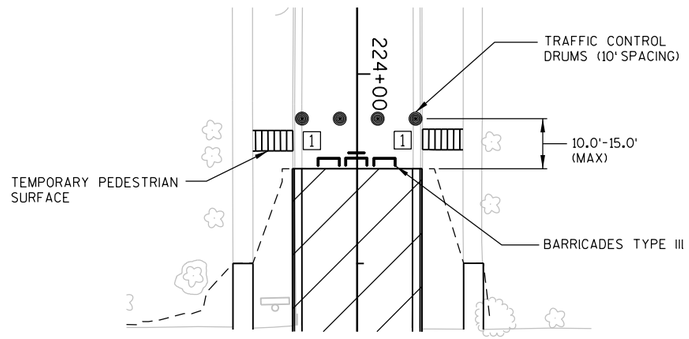
TEMPORARY VEHICLE ACCESS
(PRIOR TO CONCRETE PAVEMENT)

NOTE:

FENCE SAFETY NOT REQUIRED AFTER NEW SIDEWALK IS IN PLACE.

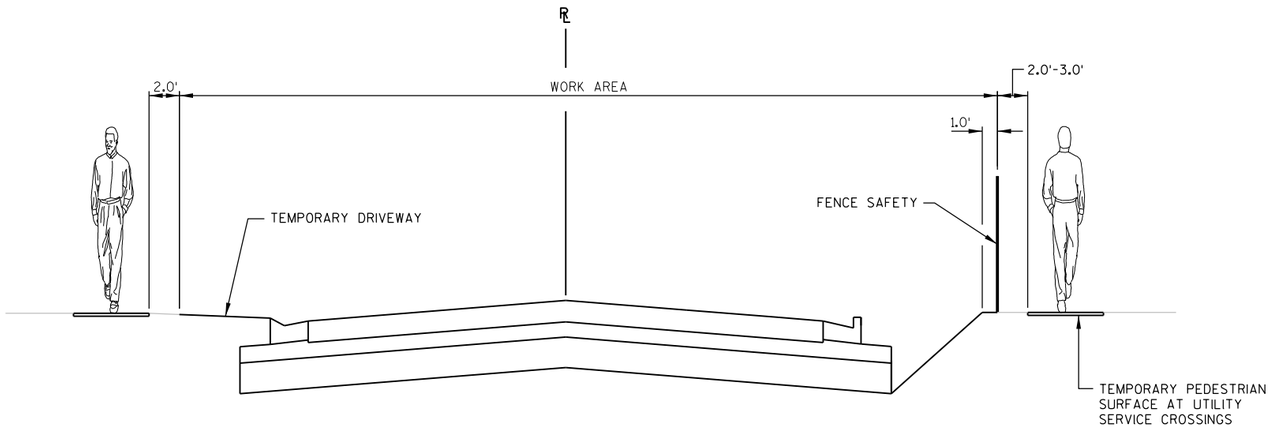


SAFETY FENCE ALONG SIDEWALK
(PRIOR TO SIDEWALK REMOVAL)

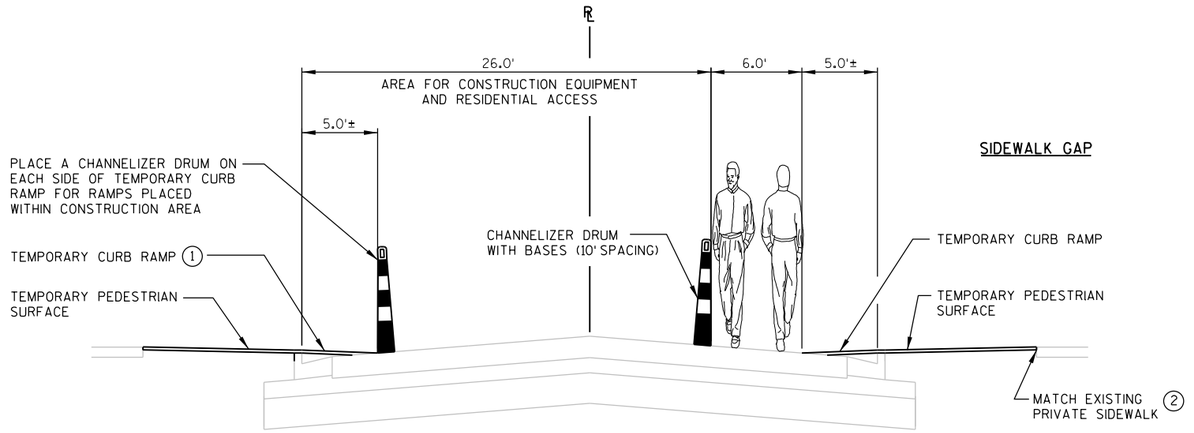


1 TEMPORARY CURB RAMP

TEMPORARY PEDESTRIAN CROSSING AT SIDE STREETS



STAGE 1
(ROADWAY CONSTRUCTION)



STAGE 2
(SIDEWALK CONSTRUCTION)

NOTES:

TRAFFIC DRUMS MAY BE USED IN LIEU OF CHANNELIZER DRUMS. MAINTAIN 6.0' BETWEEN DRUM ANCHORING MECHANISMS.

1. USE FINISHED DRIVEWAY AS ACCESS WHEN CONSTRUCTING STH 22 SIDEWALK IN FRONT OF PRIVATE SIDEWALK LEADING TO BUILDING.
2. MATCH NEW STH 22 SIDEWALK AFTER MAINLINE SIDEWALK IS CONSTRUCTED.

TYPICAL SECTIONS FOR TEMPORARY PEDESTRIAN ACCESS

RADIUS POINT TABLE

POINT	STATION	OFFSET	RADIUS	COORDINATES
CC21	168+47.75 STH 22 312+84.42 W GREEN TREE RD	167.0' LT 82.0' RT	150.0'	Y= 442480.395 X= 623689.567
CC22	168+87.73 STH 22 314+03.14 W GREEN TREE RD	75.3' LT 81.6' RT	50.0'	Y= 442475.526 X= 623789.449
CC23	168+31.64 STH 22 313+15.51 W GREEN TREE RD	123.8' LT 116.0' RT	100.0'	Y= 442446.782 X= 623721.119
CC24	168+69.25 STH 22 313+81.28 W GREEN TREE RD	86.8' LT 96.2' RT	60.0'	Y= 442464.069 X= 623770.946
CC25	168+05.78 STH 22 315+11.96 W GREEN TREE RD	61.2' LT 116.0' RT	100.0'	Y= 442440.644 X= 623787.888
CC28	171+22.41 STH 22 313+98.21 W GREEN TREE RD	146.7' LT 166.0' LT	150.0'	Y= 442719.128 X= 623834.330
CC29	170+48.81 STH 22 314+34.09 W GREEN TREE RD	79.0' LT 78.6' LT	50.0'	Y= 442622.469 X= 623859.966
CC30	171+46.01 STH 22	36.0' LT	25.0'	Y= 442688.463 X= 623943.296
CC31	172+15.65 STH 22	52.0' LT	10.0'	Y= 442757.537 X= 623961.566
CC32	170+61.72 STH 22 314+43.38 W GREEN TREE RD	71.9' LT 90.0' LT	90.0'	Y= 442630.602 X= 623872.241
CC33	170+55.41 STH 22 315+72.00 STH 156	60.0' RT 60.0' LT	60.0'	Y= 442563.599 X= 623986.057
CC34	171+36.11 STH 22 317+39.89 STH 156	179.2' RT 87.1' LT	150.0'	Y= 442579.519 X= 624129.106

RADIUS POINT TABLE (CONT)

POINT	STATION	OFFSET	RADIUS	COORDINATES
CC35	171+16.52 STH 22 316+11.87 STH 156	77.2' RT 115.8' LT	100.0'	Y= 442609.681 X= 624029.718
CC36	170+84.87 STH 22 316+20.72 STH 156	93.3' RT 80.7' LT	50.0'	Y= 442574.159 X= 624029.249
CC39	169+19.23 STH 22 315+75.89 STH 156	87.0' RT 77.0' RT	50.0'	Y= 442431.678 X= 623948.896
CC40	169+19.35 STH 22 315+64.05 STH 156	75.0' RT 75.0' RT	75.0'	Y= 442437.116 X= 623938.199
CC41	169+14.43 STH 22 314+37.85 W GREEN TREE RD	52.0' LT 60.0' RT	60.0'	Y= 442489.083 X= 623822.212
CC44	169+31.10 STH 22 114+93.72 W GREEN TREE RD	1.9' RT 52.0' RT	120.0'	Y= 442480.081 X= 623877.936
CC45	171+35.61 STH 22	44.2' RT	5.0'	Y= 442641.917 X= 624009.433

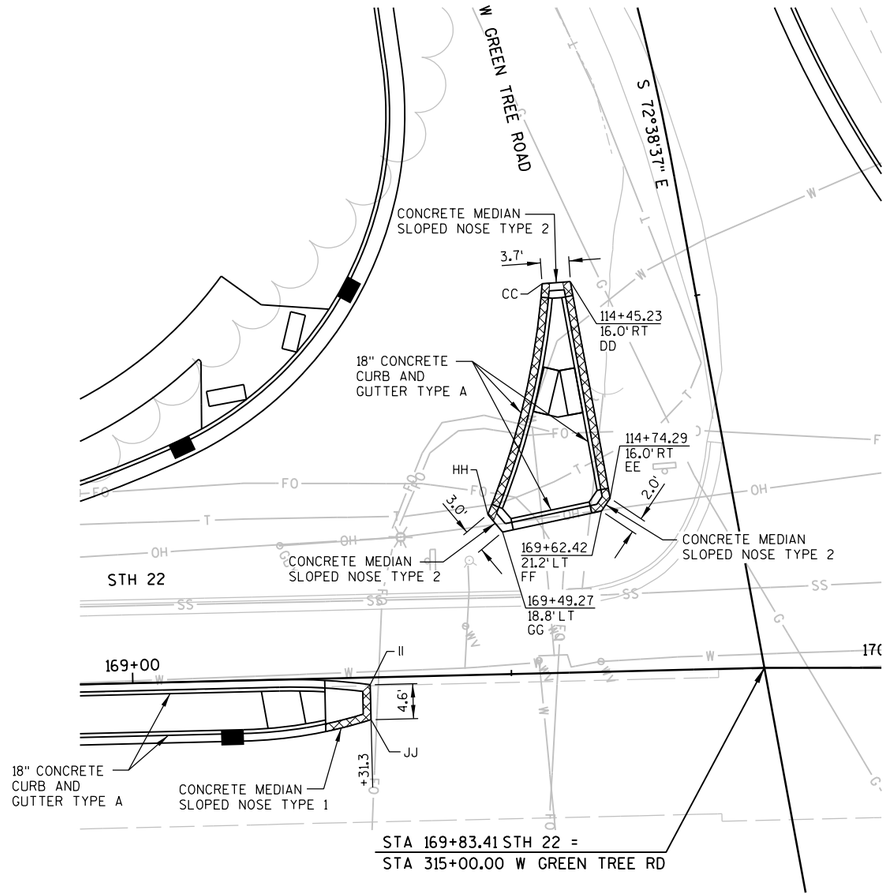
ELEVATION TABLE

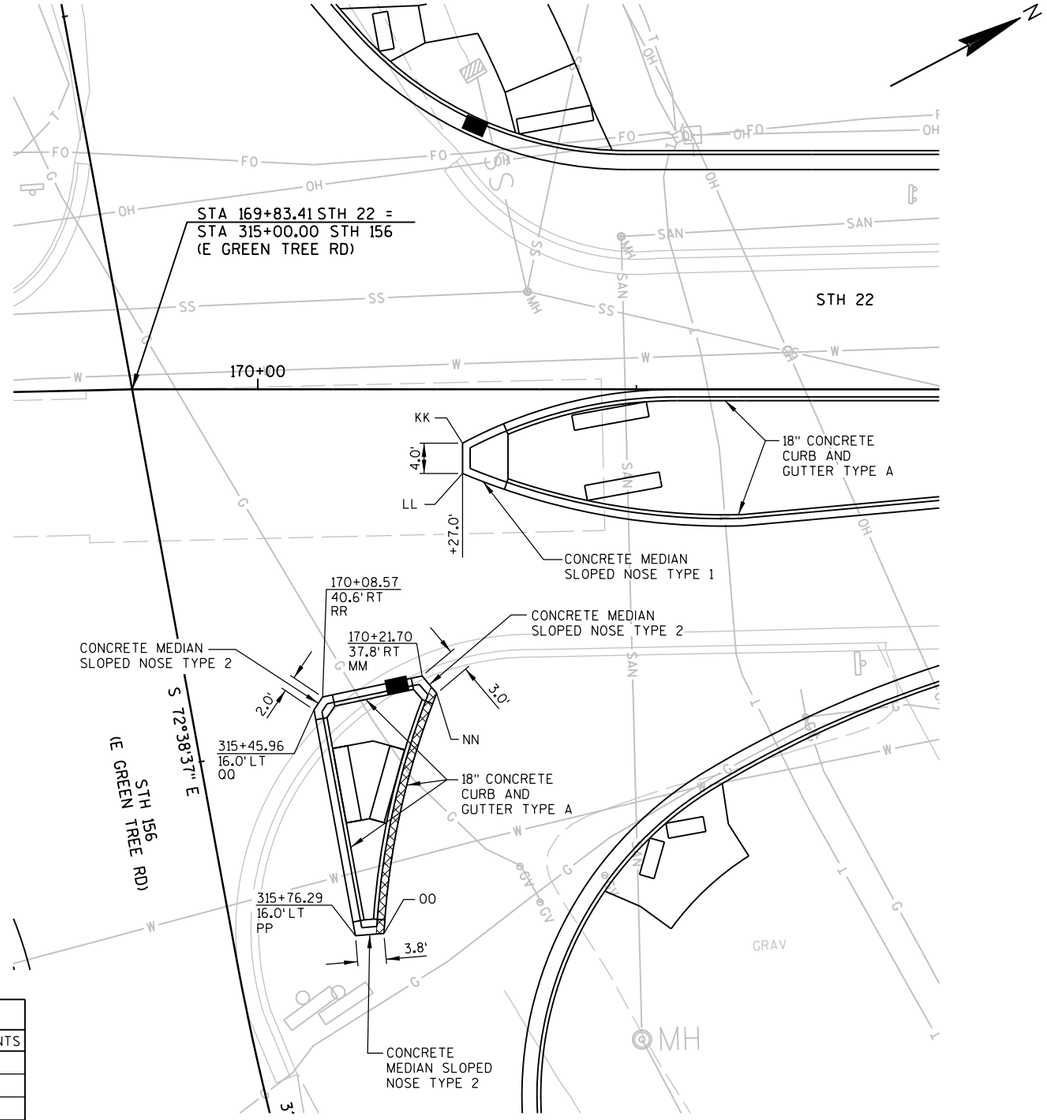
POINT	ELEVATION	COMMENTS	POINT	ELEVATION	COMMENTS
A	845.81	EOR	R	836.63	MOR
B	845.24	QOR	S	837.58	EOR
C	844.64	MOR	T	838.36	QOR
D	844.01	QOR	U	839.30	MOR
E	843.16	EOR	V	839.24	QOR
F	842.27	QOR	W	839.18	EOR
G	841.38	MOR	X	840.50	EOR
H	841.64	QOR	Y	840.89	QOR
I	842.04	EOR	Z	841.48	MOR
J	842.52	EOR	AA	842.08	QOR
K	841.97	QOR	BB	842.78	EOR
L	841.48	MOR	CC	842.06	EOL
M	840.97	QOR	DD	842.40	EOL
N	840.26	EOR	EE	842.52	EOL
O	838.99	MOR	FF	839.55	EOL
P	838.15	EOR	GG	839.48	EOL
Q	835.53	EOR			

LEGEND

- [1] CONCRETE MEDIAN SLOPED NOSE TYPE 1
- [2] CONCRETE MEDIAN SLOPED NOSE TYPE 2
- ⟨2⟩ CURB RAMP TYPE 2
- ⟨5⟩ CURB RAMP TYPE 5
- * 10' WIDE RAMP
- — — ASSUMED LONGITUDINAL JOINT

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	INTERSECTION DETAIL	SHEET 31	E





ELEVATION TABLE		
POINT	ELEVATION	COMMENTS
CC	841.80	EOR
DD	841.80	EOM
EE	841.54	EOM
FF	841.57	EOM
GG	842.04	EOM
HH	842.42	EOR
II	843.06	EOM
JJ	842.96	EOM
KK	839.39	EOM
LL	839.31	EOM
MM	838.92	EOM
NN	838.86	EOR
OO	839.63	EOR
PP	839.66	EOM
QQ	839.55	EOM
RR	839.43	EOM

DETAIL "A"
(SEE PREVIOUS SHEET)

DETAIL "B"
(SEE PREVIOUS SHEET)

REVERSE SLOPE GUTTER - SAME SLOPE AS ADJACENT PAVEMENT

REVERSE SLOPE GUTTER - SAME SLOPE AS ADJACENT PAVEMENT

2

LEGEND

- UNDERDRAIN
- [1] CB WITH 1 UNDERDRAIN CONNECTION
- [2] CB WITH 2 UNDERDRAIN CONNECTIONS
- FLOW DIRECTION

W 13TH ST

W 14TH ST

E 14TH ST

224+00

226+00

STH 22 (N MAIN ST)

MATCHLINE STA 136+00

129+00 130+00 131+00 132+00 133+00 134+00 135+00

BEGIN PROJECT
STA 130+50.00

CONNECT P-32 TO EXISTING 36" RCP STORM SEWER CONSTRUCTED IN 2015 (INCIDENTAL TO RCP STORM SEWER)

CONNECT TO UNDERDRAIN CONSTRUCTED IN 2015 (INCIDENTAL TO UNDERDRAIN)

CONNECT TO UNDERDRAIN CONSTRUCTED IN 2015 (INCIDENTAL TO UNDERDRAIN)

REMOVE MH

REMOVE SS

REMOVE SS & MH

REMOVE SS & MH

REMOVE SS, MH & INLETS

CITY OF CLINTONVILLE (UG ELECTRIC STREET LIGHTS)

CITY OF CLINTONVILLE (SANITARY SEWER)

CITY OF CLINTONVILLE (WATER MAIN)

WE ENERGIES (GAS MAIN)

P-32 P-33 P-34 P-35 P-36 P-37 P-38 P-39 P-40 P-41 P-42 P-42A P-43

BM113

BM112

10 STA 130+93.57, 12.0' RT
MH 6-FT DIA / J

11 STA 132+13.00, 12.0' RT
MH 5X5-FT / J

11A STA 132+23.16, 18.5' LT
CB 2X3-FT / H

11B STA 132+13.00, 18.5' RT
CB 2X3-FT / H

12 STA 134+80.88, 12.0' RT
MH 5X5-FT / J

12A STA 224+60.00, 16.1' RT
CB 2X3-FT / H

12B STA 224+60.00, 16.1' LT
CB 2X3-FT / H-S

12C STA 134+74.88, 18.5' LT
CB 4-FT DIA / H

12D STA 134+80.88, 18.5' RT
CB 2X3-FT / H

12E STA 225+37.06, 17.5' LT
CB 2X3-FT / H-S

BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
113	130+35.58, 26.4' LT	TOP NUT ON HYD/NW QUAD OF STH 22 AND 13TH STREET	833.36
112	134+71.57, 26.4' LT	TOP NUT ON HYD/NW QUAD OF STH 22 AND 14TH STREET	836.29

845 840 835 830 825 820 815 810

CONNECT TO NEAREST PIPE JOINT AFTER MH IS REMOVED

LABEL : P-32
UP. INV. : 821.00
DN. INV. : 820.75
L : 40'
SIZE : 36"
MAT. : SSPRC CL III
SLOPE : 0.63%

LABEL : MH 10
RIM : 830.29
SUMP : 0.33'

LABEL : P-34
UP. INV. : 823.72
DN. INV. : 823.00
L : 119'
SIZE : 36"
MAT. : SSPRC CL III
SLOPE : 0.63% *

LABEL : MH 11
RIM : 831.04
SUMP : 0.33'

LABEL : P-38
UP. INV. : 825.03
DN. INV. : 823.72
L : 268'
SIZE : 36"
MAT. : SSPRC CL III
SLOPE : 0.50% *

LABEL : MH 12
RIM : 833.47
SUMP : 0.33'

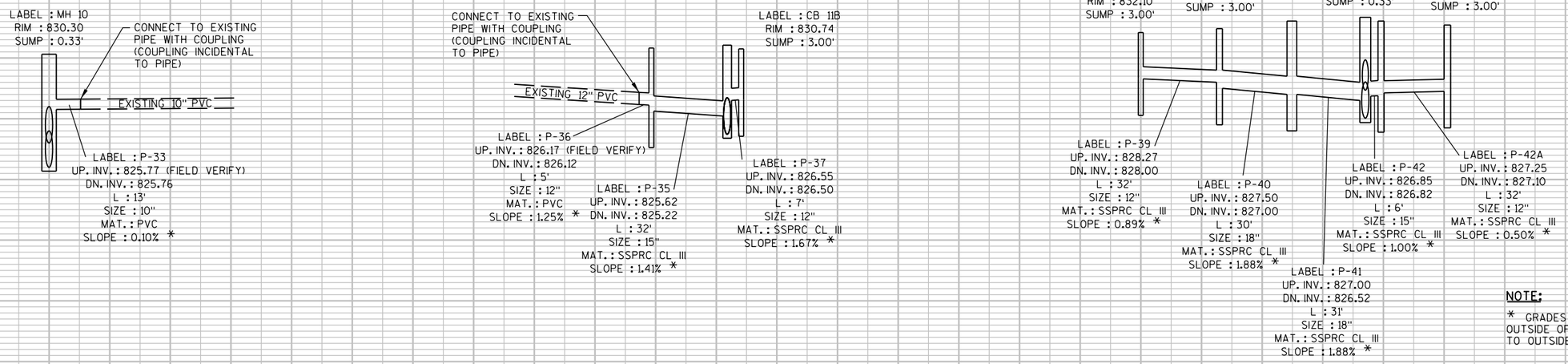
LABEL : P-43
UP. INV. : 833.61
DN. INV. : 827.35
L : 300'
SIZE : 30"
MAT. : SSPRC CL III
SLOPE : 2.12% *

NOTE:

* GRADES COMPUTED FROM OUTSIDE OF STRUCTURE TO OUTSIDE OF STRUCTURE.

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	STORM SEWER	SHEET 33	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\SSSTH2202a.dgn PLOT DATE : 4/11/2016 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



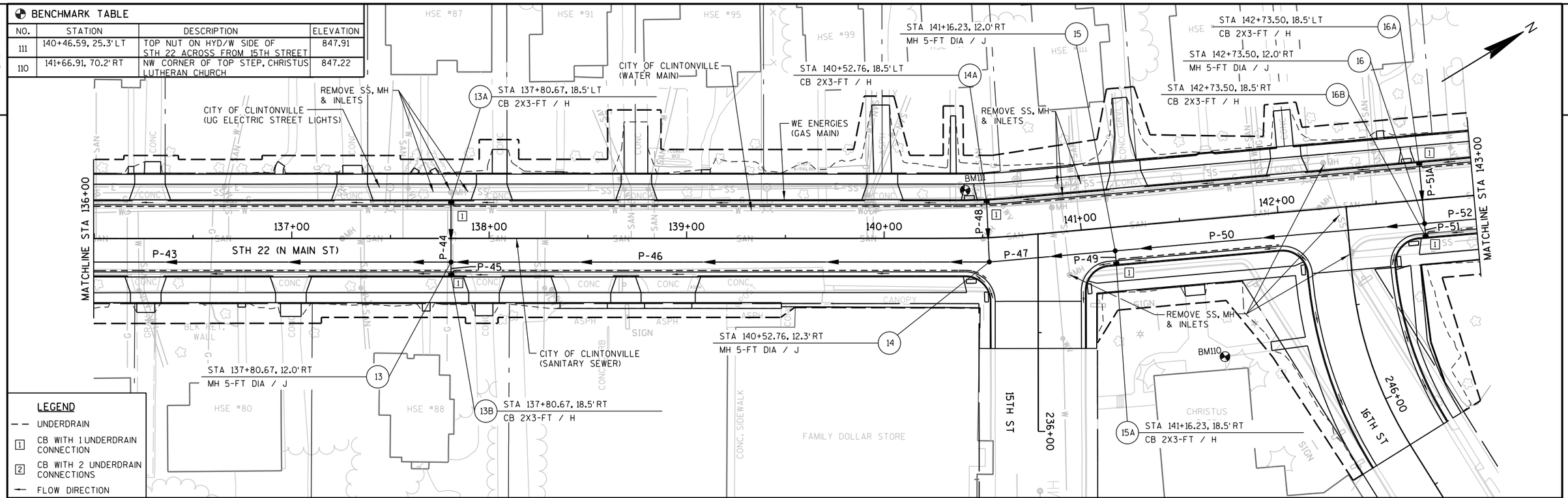
STRUCT NO	STATION	LOCATION	PAY LENGTH C-C FT	TO	INLET OR MANHOLE	TYPE	FLOW LINE/ RIM ELEV	TOP OF STRUCT ELEV	STRUCT DEPTH FT	SUMP DEPTH FT	DISCHARGE PIPE				
											INLET ELEV	OUTLET ELEV	SIZE IN	INSTALL LENGTH FT	SLOPE %
10	130+93.57	12.0' RT	40	EXIST	MH	6-FT DIA	830.29	828.96	8.29	NA	821.00	820.75	36	40	0.63%
ROOF DRAIN	N/A	N/A	13	10	N/A	N/A	N/A	N/A	N/A	NA	825.77	825.76	10	13	0.10%
11	132+13.00	12.0'RT	119	10	MH	5X5-FT	831.04	829.71	5.04	NA	825.00	823.72	36	119	0.63%
ROOF DRAIN	N/A	N/A	5	11A	N/A	N/A	N/A	N/A	N/A	NA	826.17	826.12	12	5	1.25%
11A	132+23.16	18.5'LT	25	11	CB	2X3-FT	830.81	829.85	7.23	3.00	825.62	825.22	15	32	1.41%
11B	132+13.00	18.5'RT	7	11	CB	2X3-FT	830.74	829.78	6.23	3.00	826.55	826.50	12	7	1.67%
12	134+80.88	12.0'RT	268	11	MH	5X5-FT	833.47	832.14	7.44	NA	825.03	823.72	36	268	0.50%
12A	224+60.00	16.1'RT	32	12	CB	2X3-FT	832.10	831.14	5.87	3.00	828.27	828.00	12	32	0.89%
12B	224+60.00	16.1'LT	30	12	CB	2X3-FT	832.42	831.46	6.96	3.00	827.50	827.00	18	30	1.88%
12C	134+74.88	18.5'LT	31	12	CB	4-FT DIA	833.04	832.08	8.08	3.00	827.00	826.52	18	31	1.88%
12E	225+37.06	17.5'LT	32	12	CB	2X3-FT	832.71	831.75	7.50	3.00	827.25	827.10	12	32	0.50%
12D	134+80.88	18.5'RT	6	12	CB	2X3-FT	833.16	832.20	8.35	3.00	826.85	826.82	15	6	1.00%

MANHOLE TYPE						CATCH BASIN TYPE		MH COVERS TYPE	INLET COVERS		SSPRC-CLASS III				PVC PIPE	
4-FT DIA	5-FT DIA	6-FT DIA	7-FT DIA	5X5-FT	6X6-FT	2X3-FT	4-FT	J	H	H-S	12-INCH	15-INCH	18-INCH	36-INCH	10-INCH	12-INCH
0	0	1	0	2	0	6	1	3	5	2	71	38	61	427	13	5

2

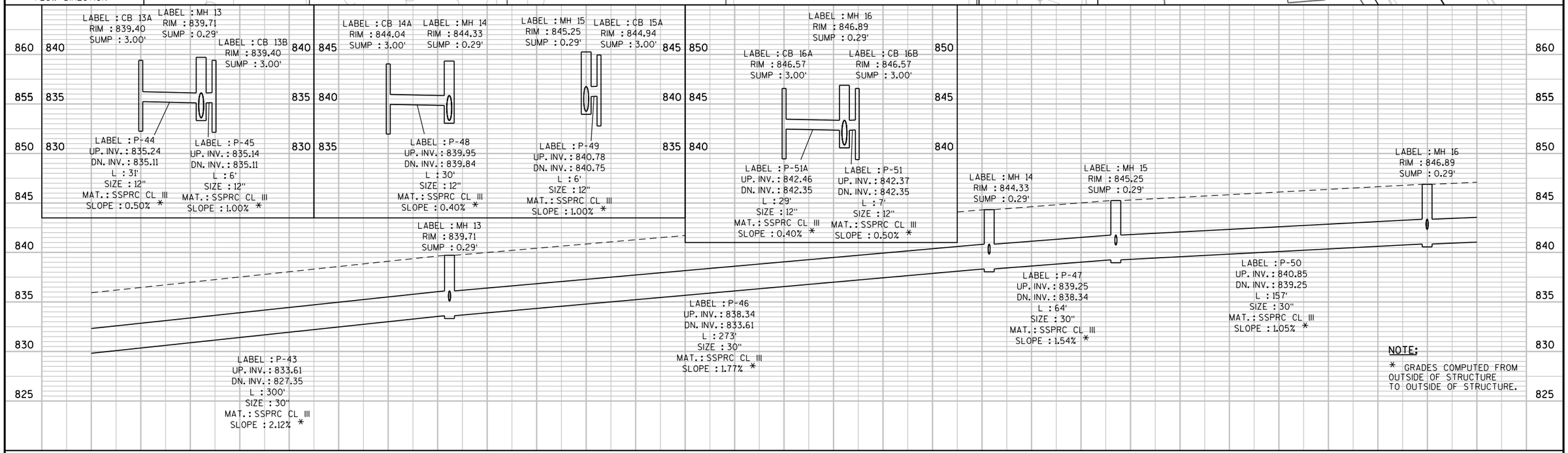
BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
111	140+46.59, 25.3' LT	TOP NUT ON HYD/W SIDE OF STH 22 ACROSS FROM 15TH STREET	847.91
110	141+66.91, 70.2' RT	NW CORNER OF TOP STEP, CHRISTUS LUTHERAN CHURCH	847.22



LEGEND

- UNDERDRAIN
- [1] CB WITH 1 UNDERDRAIN CONNECTION
- [2] CB WITH 2 UNDERDRAIN CONNECTIONS
- FLOW DIRECTION



NOTE:

* GRADES COMPUTED FROM OUTSIDE OF STRUCTURE TO OUTSIDE OF STRUCTURE.

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	STORM SEWER	SHEET 35	E

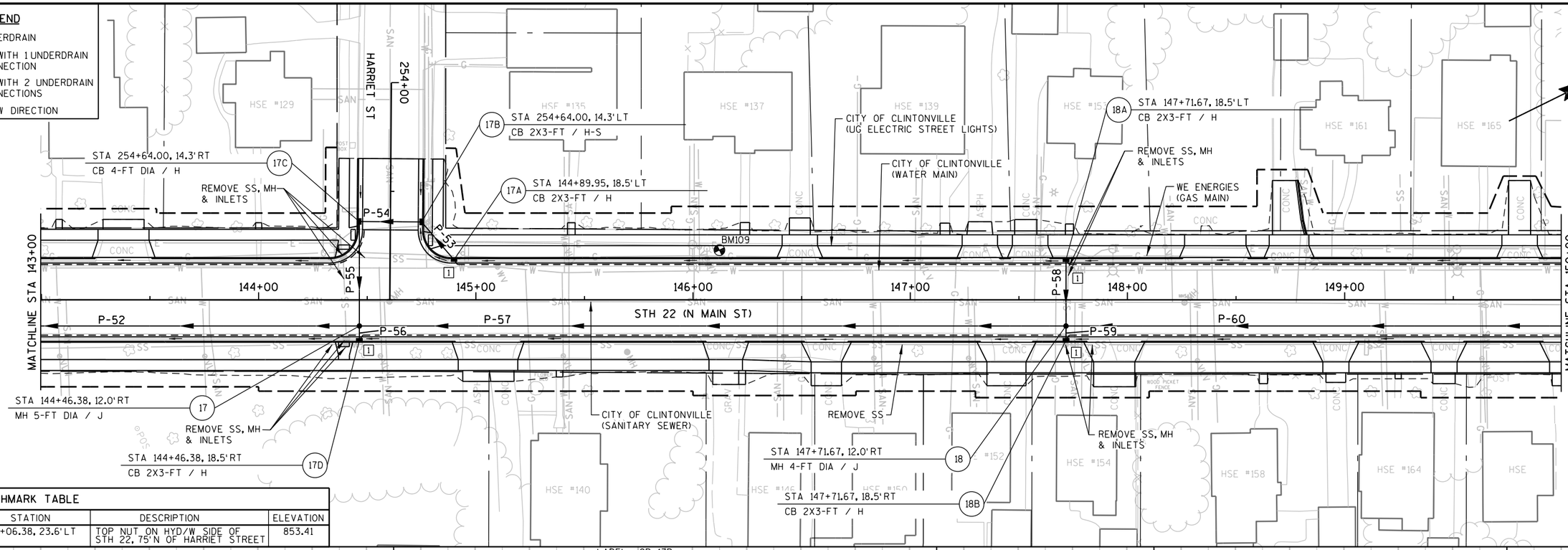
2

STRUCT NO	STATION	LOCATION	PAY LENGTH C-C FT	TO	INLET OR MANHOLE	TYPE	FLOW LINE/ RIM ELEV	TOP OF STRUCT ELEV	STRUCT DEPTH FT	SUMP DEPTH FT	DISCHARGE PIPE				
											INLET ELEV	OUTLET ELEV	SIZE IN	INSTALL LENGTH FT	SLOPE %
13	137+80.67	12.0' RT	300	12	MH	5-FT DIA	839.71	838.38	5.06	NA	833.61	827.35	30	300	2.12%
13A	137+80.67	18.5'LT	31	13	CB	2X3-FT	839.40	838.44	6.20	3	835.24	835.11	12	31	0.50%
13B	137+80.67	18.5' RT	6	13	CB	2X3-FT	839.40	838.44	6.30	3.00	835.14	835.11	12	6	1.00%
14	140+52.76	12.3'RT	273	13	MH	5-FT DIA	844.33	843.00	4.95	NA	838.34	833.61	30	273	1.77%
14A	140+52.76	18.5'LT	30	14	CB	2X3-FT	844.04	843.08	6.13	3.00	839.95	839.84	12	30	0.40%
15	141+16.23	12.0'RT	64	14	MH	5-FT DIA	845.25	843.92	4.96	NA	839.25	838.34	30	64	1.54%
15A	141+16.23	18.5'RT	6	15	CB	2X3-FT	844.94	843.98	6.20	3.00	840.78	840.75	12	6	1.00%
16	142+73.50	12.0'RT	157	15	MH	5-FT DIA	846.89	845.56	5.00	NA	840.85	839.25	30	157	1.05%
16A	142+73.50	18.5'LT	29	16	CB	2X3-FT	846.57	845.61	6.15	3.00	842.46	842.35	12	29	0.40%
16B	142+73.50	18.5'RT	7	16	CB	2X3-FT	846.57	845.24	5.87	3.00	842.37	842.35	12	7	0.50%

MANHOLE TYPE	CATCH BASIN TYPE	MH COVER S TYPE	INLET COVERS TYPE		SSPRC-CLASS III	
5-FT DIA	2X3-FT	J	H	H-S	12-INCH	30-INCH
4	6	4	6	0	109	794

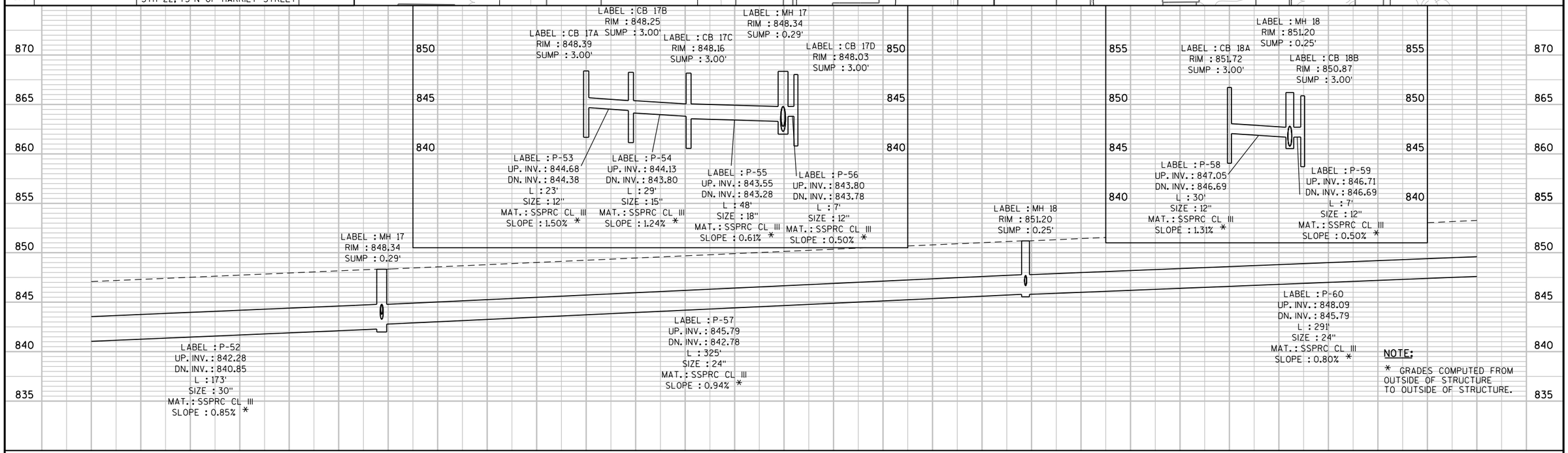
2

LEGEND
- UNDERDRAIN
- [1] CB WITH 1 UNDERDRAIN CONNECTION
- [2] CB WITH 2 UNDERDRAIN CONNECTIONS
- FLOW DIRECTION



BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
109	146+06.38, 23.6'LT	TOP NUT ON HYD/W SIDE OF STH 22, 75'N OF HARRIET STREET	853.41



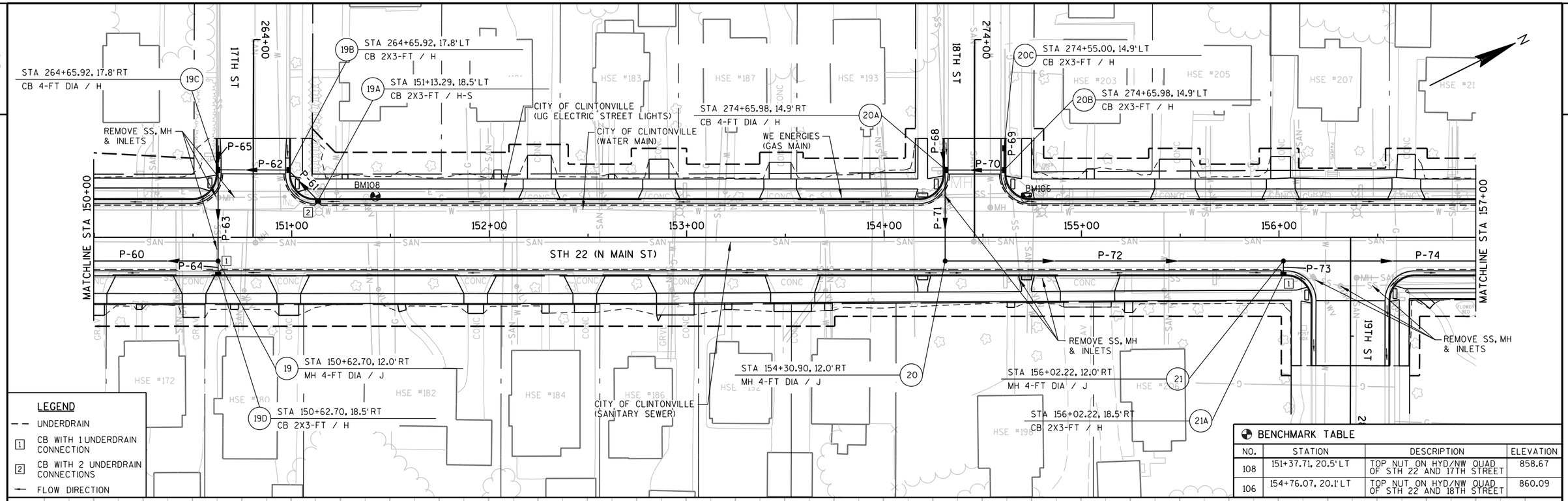
NOTE:
* GRADES COMPUTED FROM OUTSIDE OF STRUCTURE TO OUTSIDE OF STRUCTURE.

2

STRUCT NO	STATION	LOCATION	PAY LENGTH C-C FT	TO	INLET OR MANHOLE	TYPE	FLOW LINE/ RIM ELEV	TOP OF STRUCT ELEV	STRUCT DEPTH FT	SUMP DEPTH FT	DISCHARGE PIPE				
											INLET ELEV	OUTLET ELEV	SIZE IN	INSTALL LENGTH FT	SLOPE %
17	144+46.38	12.0'RT	173	16	MH	5-FT DIA	848.34	847.01	5.02	NA	842.28	840.85	30	173	0.85%
17A	144+89.95	18.5'LT	23	17	CB	2X3-FT	848.39	847.43	5.75	3.00	844.68	844.38	12	23	1.50%
17B	254+64.00	14.3'LT	29	17	CB	2X3-FT	848.25	847.29	6.16	3.00	844.13	843.80	15	29	1.24%
17C	254+64.00	14.3'RT	48	17	CB	4-FT DIA	848.16	847.20	6.65	3.00	843.55	843.28	18	48	0.61%
17D	144+46.38	18.5'RT	7	17	CB	2X3-FT	848.03	847.07	6.27	3.00	843.80	843.78	12	7	0.50%
18	147+71.67	12.0'RT	325	17	MH	4-FT DIA	851.20	849.87	4.33	NA	845.79	842.78	24	325	0.94%
18A	147+71.67	18.5'LT	30	18	CB	2X3-FT	851.72	850.76	6.71	3.00	847.05	846.69	12	30	1.31%
18B	147+71.67	18.5'RT	7	18	CB	2X3-FT	850.87	849.91	6.20	3.00	846.71	846.69	12	7	0.50%

MANHOLE TYPE		CATCH BASIN TYPE		MH COVERS TYPE	INLET COVERS TYPE		SSPRC-CLASS III				
4-FT DIA	5-FT DIA	2X3-FT	4-FT DIA	J	H	H-S	12-INCH	15-INCH	18-INCH	24-INCH	30-INCH
1	1	5	1	2	5	1	67	29	48	325	173

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\SSSTH2204A.dgn PLOT DATE : 4/11/2016 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

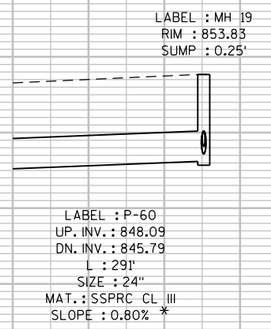


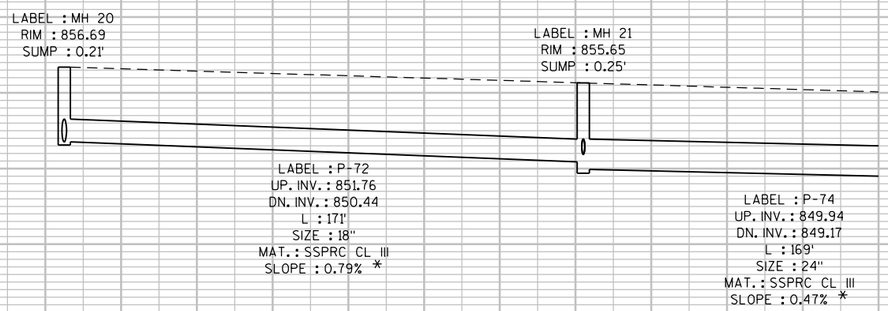
LEGEND

- UNDERDRAIN
- [1] CB WITH 1 UNDERDRAIN CONNECTION
- [2] CB WITH 2 UNDERDRAIN CONNECTIONS
- FLOW DIRECTION

BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
108	151+37.71, 20.5'LT	TOP NUT ON HYD/NW QUAD OF STH 22 AND 17TH STREET	858.67
106	154+76.07, 20.1'LT	TOP NUT ON HYD/NW QUAD OF STH 22 AND 18TH STREET	860.09



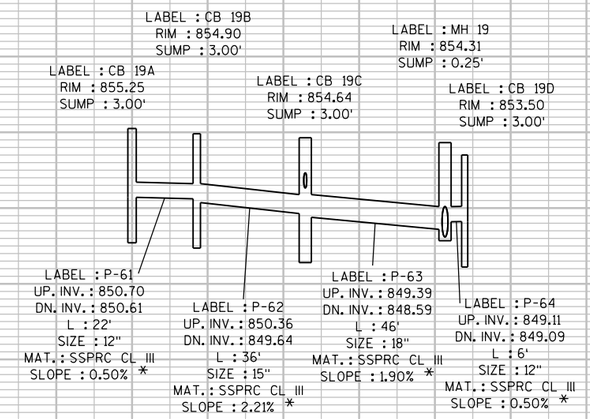


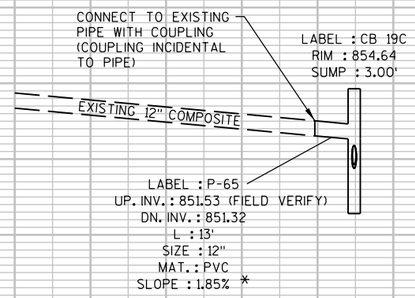
865 860 855 850 845 840 835 830

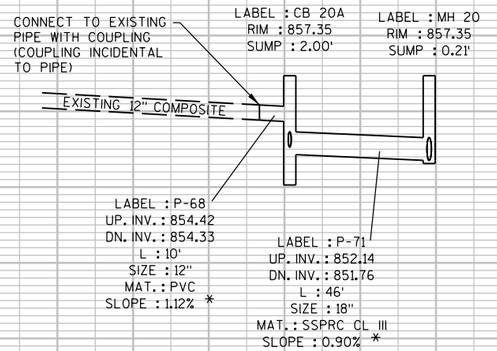
NOTE:

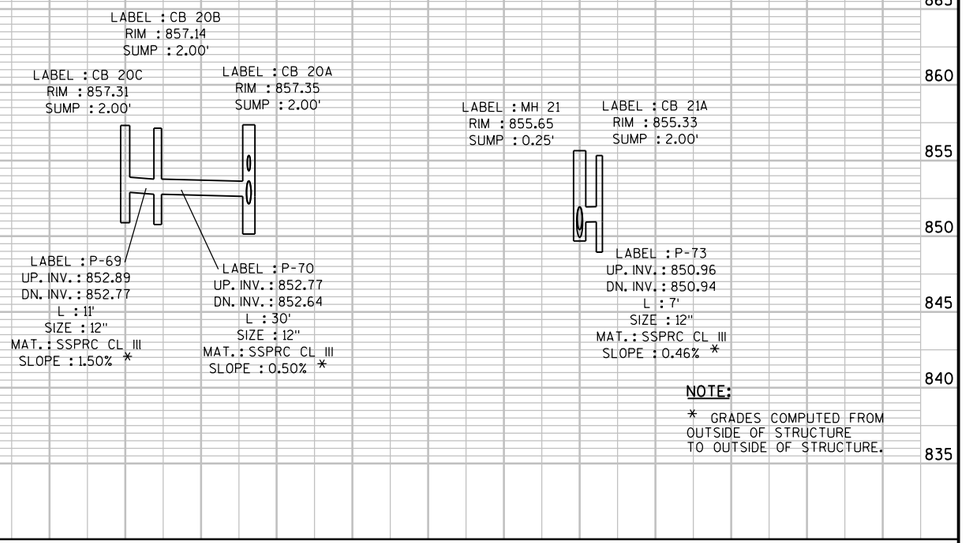
* GRADES COMPUTED FROM OUTSIDE OF STRUCTURE TO OUTSIDE OF STRUCTURE.

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	STORM SEWER	SHEET 39	E







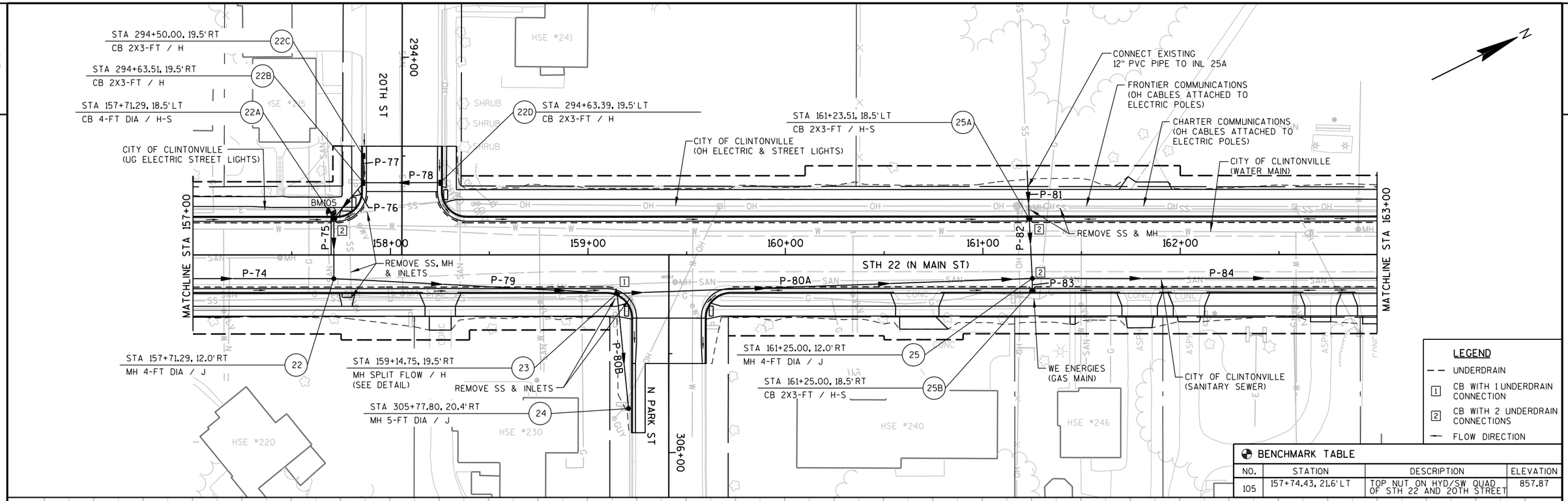


NOTE:

* GRADES COMPUTED FROM OUTSIDE OF STRUCTURE TO OUTSIDE OF STRUCTURE.

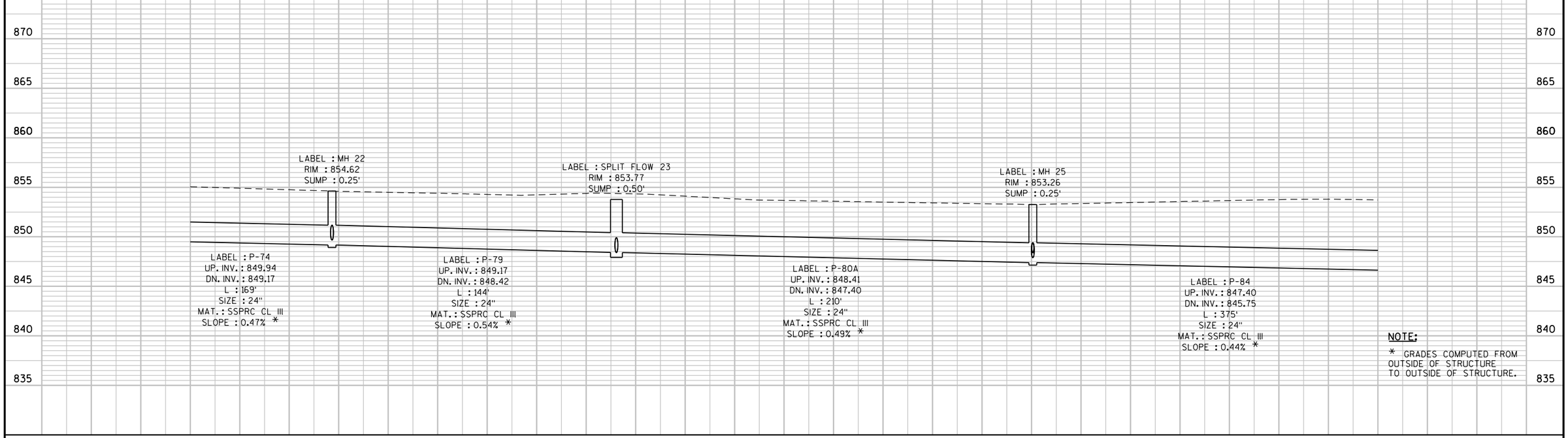
STRUCT NO	STATION	LOCATION	PAY LENGTH C-C FT	TO	INLET OR MANHOLE	TYPE	FLOW LINE/ RIM ELEV	TOP OF STRUCT ELEV	STRUCT DEPTH FT	SUMP DEPTH FT	DISCHARGE PIPE				
											INLET ELEV	OUTLET ELEV	SIZE IN	INSTALL LENGTH FT	SLOPE %
19	150+62.70	12.0'RT	291	18	MH	4-FT DIA	853.83	852.5	4.66	NA	848.09	845.79	24	291	0.80%
19A	151+13.29	18.5'LT	22	19	CB	2X3-FT	855.25	854.29	6.59	3.00	850.70	850.61	12	22	0.50%
19B	264+65.92	17.8'LT	36	19	CB	2X3-FT	854.90	853.94	6.58	3.00	850.36	849.64	15	36	2.21%
19C	264+65.92	17.8'RT	46	19	CB	4-FT DIA	854.64	853.68	7.29	3.00	849.39	848.59	18	46	1.90%
ROOF DRAIN	N/A	N/A	13	19C	N/A	N/A	N/A	N/A	N/A	NA	851.53	851.32	12	13	1.85%
19D	150+62.70	18.5'RT	6	19	CB	2X3-FT	853.50	852.54	6.43	3.00	849.11	849.09	12	6	0.50%
20	154+30.90	12.0'RT	171	21	MH	4-FT DIA	856.69	855.36	3.81	NA	851.76	850.44	18	171	0.79%
20C	274+55.00	14.9'LT	11	20	CB	2X3-FT	857.31	856.35	5.46	2.00	852.89	852.77	12	11	1.50%
20B	274+65.98	14.9'LT	30	20	INLET	2X3-FT	857.14	856.18	5.41	2.00	852.77	852.64	12	30	0.50%
ROOF DRAIN	N/A	N/A	10	20A	N/A	N/A	N/A	N/A	N/A	NA	854.42	854.33	12	10	1.12%
20A	274+65.98	14.9'RT	46	20	CB	4-FT DIA	857.35	856.39	6.25	2.00	852.14	851.76	18	46	0.90%
21	156+02.22	12.0'RT	169	22	MH	4-FT DIA	855.65	854.32	4.63	NA	849.94	849.17	24	169	0.47%
21A	156+02.22	18.5'RT	7	21	CB	2X3-FT	855.33	854.37	5.41	2.00	850.96	850.94	12	7	0.46%

MANHOLE TYPE	CATCH BASIN TYPE		MH COVERS TYPE	INLET COVERS TYPE		SSPRC-CLASS III				PVC PIPE
4-FT DIA	2X3-FT	4-FT	J	H	H-S	12-INCH	15-INCH	18-INCH	24-INCH	12-INCH
3	6	2	3	7	1	76	36	263	460	23



BENCHMARK TABLE

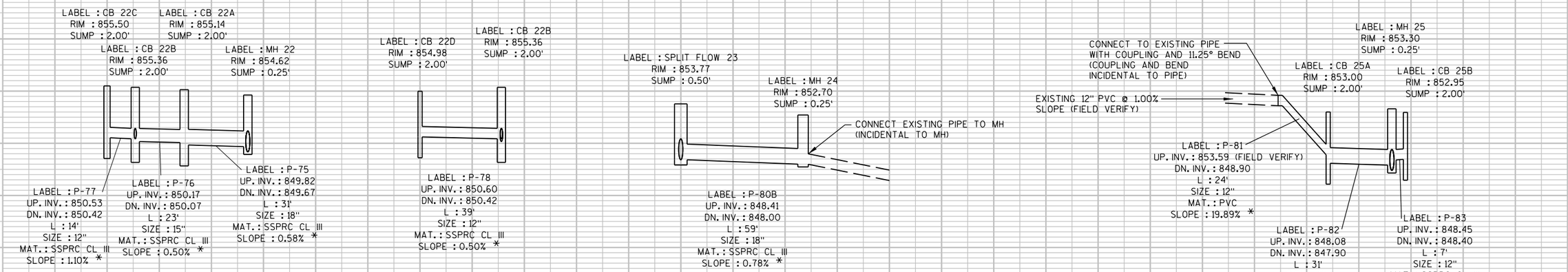
NO.	STATION	DESCRIPTION	ELEVATION
105	157+74.43, 21.6'LT	TOP NUT ON HYD/SW QUAD OF STH 22 AND 20TH STREET	857.87



NOTE:

* GRADES COMPUTED FROM OUTSIDE OF STRUCTURE TO OUTSIDE OF STRUCTURE.

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	STORM SEWER	SHEET 41	E



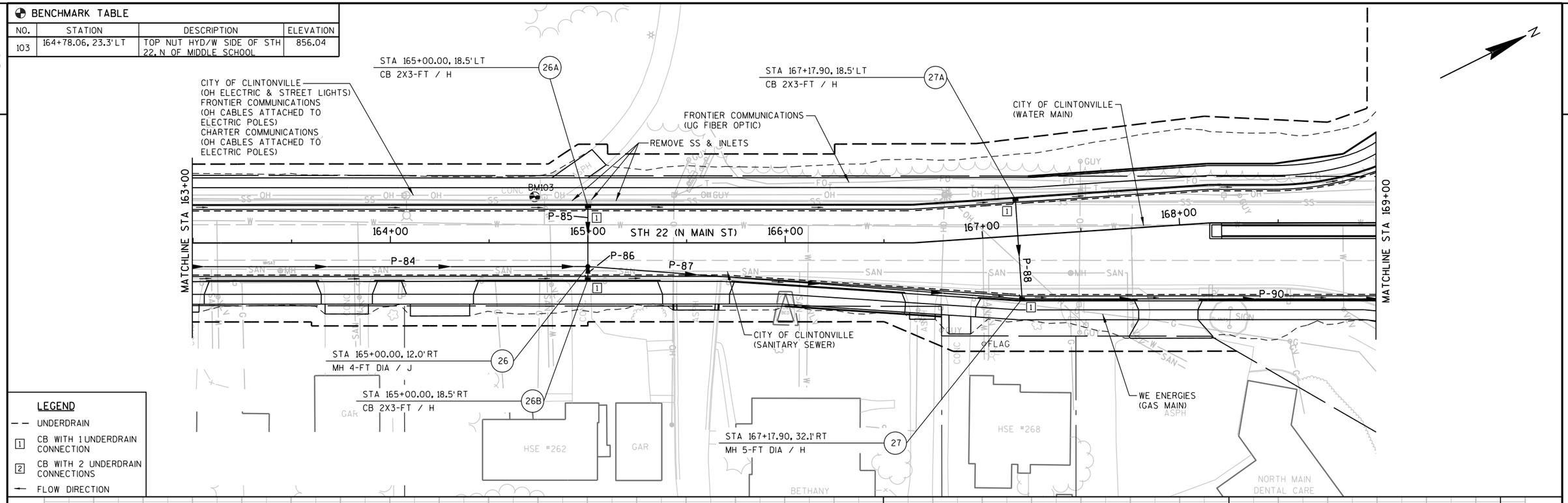
STRUCT NO	STATION	LOCATION	PAY LENGTH C-C FT	TO	INLET OR MANHOLE	TYPE	FLOW LINE/ RIM ELEV	TOP OF STRUCT ELEV	STRUCT DEPTH FT	SUMP DEPTH FT	DISCHARGE PIPE				
											INLET ELEV	OUTLET ELEV	SIZE IN	INSTALL LENGTH FT	SLOPE %
22	157+71.29	12.0'RT	144	23	MH	4-FT DIA	854.62	853.29	4.37	NA	849.17	848.42	24	144	0.54%
22D	294+63.39	19.5'LT	39	22	CB	2X3-FT	854.98	854.02	5.42	2.00	850.60	850.42	12	39	0.50%
22C	294+50.00	19.5'RT	14	22	CB	2X3-FT	855.50	854.54	6.01	2.00	850.53	850.42	12	14	1.10%
22B	294+63.51	19.5'RT	23	22	CB	2X3-FT	855.36	854.40	6.23	2.00	850.17	850.07	15	23	0.50%
22A	157+71.29	18.5'LT	31	22	CB	4-FT DIA	855.14	854.18	6.36	2.00	849.82	849.67	18	31	58.00%
23	159+14.75	19.5'RT	210	25	SFS*	6-FT DIA	853.77	852.44	4.53	NA	848.41	847.40	24	210	0.49%
23	159+14.75	19.5'RT	59	24	SFS*	6-FT DIA	853.77	852.44	4.53	NA	848.41	848.00	18	59	0.78%
24	305+77.80	20.3'RT	N/A	EXIST	MH	5-FT DIA	852.70	850.87	N/A	NA	N/A	N/A	N/A	N/A	N/A
25	161+25.00	12.0'RT	375	26	MH	4-FT DIA	853.26	851.93	6.53	NA	847.40	845.75	24	375	0.44%
ROOF DRAIN	N/A	N/A	24	25A	N/A	N/A	N/A	N/A	N/A	NA	853.59	848.90	12	24	19.89%
25A	161+23.51	18.5'LT	31	25	CB	2X3-FT	853.00	852.04	5.96	2.00	848.08	847.90	18	31	0.65%
25B	161+25.00	18.5'RT	7	20	CB	4-FT DIA	852.95	851.99	5.54	2.00	848.45	848.40	12	7	0.90%

*SFS = Split Flow Structure

MANHOLE TYPE			CATCH BASIN TYPE		MH COVERS TYPE	INLET COVERS TYPE		SSPRC-CLASS III				PVC PIPE
4-FT DIA	5-FT DIA	SPLIT FLOW	2X3-FT	4-FT	J	H	H-S	12-INCH	15-INCH	18-INCH	24-INCH	12-INCH
2	1	1	5	1	4	3	3	60	23	121	729	24

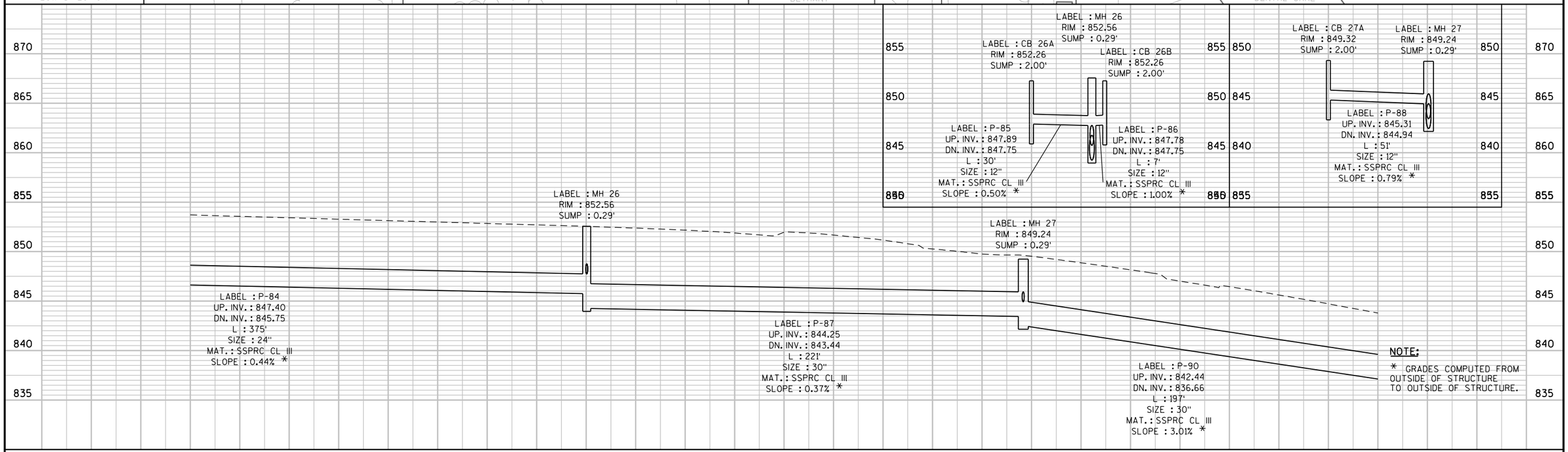
BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
103	164+78.06, 23.3'LT	TOP NUT HYD/W SIDE OF STH 22, N OF MIDDLE SCHOOL	856.04



LEGEND

- UNDERDRAIN
- [1] CB WITH 1 UNDERDRAIN CONNECTION
- [2] CB WITH 2 UNDERDRAIN CONNECTIONS
- FLOW DIRECTION



NOTE:

* GRADES COMPUTED FROM OUTSIDE OF STRUCTURE TO OUTSIDE OF STRUCTURE.

STRUCT NO	STATION	LOCATION	PAY LENGTH C-C FT	TO	INLET OR MANHOLE	TYPE	FLOW LINE/ RIM ELEV	TOP OF STRUCT ELEV	STRUCT DEPTH FT	SUMP DEPTH FT	DISCHARGE PIPE				
											INLET ELEV	OUTLET ELEV	SIZE IN	INSTALL LENGTH FT	SLOPE %
26	165+00.00	12.0'RT	221	27	MH	4-FT DIA	852.56	851.23	7.27	NA	844.25	843.44	30	221	0.37%
26A	165+00.00	18.5'LT	30	26	CB	2X3-FT	852.26	851.3	5.41	2.00	847.89	847.75	12	30	0.50%
26B	165+00.00	18.5'RT	7	26	CB	2X3-FT	852.26	851.3	5.52	2.00	847.78	847.75	12	7	1.00%
27	167+17.90	32.1'RT	197	28	MH	5-FT DIA	849.24	848.28	6.13	NA	842.44	836.66	30	197	3.01%
27A	167+17.90	18.5'LT	51	27	CB	2X3-FT	849.32	848.36	5.05	2.00	845.31	844.94	12	51	0.79%

MANHOLE TYPE	MANHOLE TYPE	CATCH BASIN TYPE		MH COVERS TYPE	INLET COVERS TYPE		SSPRC-CLASS III	
4-FT DIA	5-FT DIA	2X3-FT	4-FT	J	H	H-S	12-INCH	30-INCH
1	1	3	0	1	4	0	88	418

2

BENCHMARK TABLE			
NO.	STATION	DESCRIPTION	ELEVATION
102	169+44.97, 15.1'LT	TOP NUT ON HYD/SW QUAD OF STH 22 AND GREEN TREE ROAD	845.47
101	170+60.76, 36.61'LT	PK NAIL IN PP NW QUAD OF STH 22 AND GREEN TREE ROAD	839.81

FRONTIER COMMUNICATIONS (UG TELEPHONE)

STA 314+41.04, 44.9'RT
CB 5-FT DIA / H-S (35)

STA 169+07.26, 30.9'LT
CB 5-FT DIA / H (34)

STA 314+51.51, 32.6'LT
CB 2X3-FT / H (29A)

STA 170+28.68, 34.8'LT
CB 4-FT DIA / H (29B)

CONNECT EXIST 8" PIPE TO CB 29B

OWEST (UG FIBER OPTIC)

STA 171+32.00, 11.4'RT
CB 3-FT DIA / Z (30A)

STA 173+16.58, 19.5'LT
CB 2X3-FT / H (31A)

STA 173+51.92, 20.7'RT
MH 7-FT DIA / HM (31)

W GREEN TREE RD

STH 156 (E GREEN TREE RD)

STH 22 (N MAIN ST)

MATCHLINE STA 169+00

MATCHLINE STA 175+50

BM101

BM102

REMOVE SS, MH & INLETS

REMOVE SS & INLETS

REMOVE SS & INLETS

P-91 P-92 P-93 P-94 P-95 P-96 P-98 P-99 P-100A P-100B P-101 P-108 P-109 P-110 P-111 P-112

170+00 171+00 172+00 173+00 174+00 175+00 316+00

STA 169+13.00, 7.25'RT
CB 5-FT DIA / Z (33)

STA 169+17.73, 38.5'RT
MH 6-FT DIA / H (28)

STA 169+21.48, 85.2'RT
12" RCP AEW (44)

STA 169+52.64, 51.8'RT
CB 2X3-FT / H (43)

STA 171+33.72, 30.3'RT
MH 6-FT DIA / H (30)

STA 170+18.43, 39.3'RT
MH 6-FT DIA / Z (29)

STA 173+56.10, 31.0'RT
MH 4-FT DIA / J (37)

STA 174+91.34, 19.5'RT
ADJUST INLET COVER (38)

END ROADWAY CONSTRUCTION
STA 175+00.00

SEPTIC, HSE, HSE #290, HSE #290 1/2, AL'S BAR & GRILL, SIGN, GRAVEL, ASPH, GUY, SAN MH

LEGEND

- UNDERDRAIN
- [1] CB WITH 1 UNDERDRAIN CONNECTION
- [2] CB WITH 2 UNDERDRAIN CONNECTIONS
- FLOW DIRECTION

LABEL : CB 30A
RIM : 835.53
SUMP : 2.00'

LABEL : MH 30
RIM : 835.16
SUMP : 0.29'

LABEL : P-98
UP. INV. : 831.07
DN. INV. : 830.56
L : 19'
SIZE : 12"
MAT. : SSPRC CL III
SLOPE : 3.50% *

LABEL : CB 31A
RIM : 829.32
SUMP : 2.00'

LABEL : MH 31
RIM : 828.53
SUMP : 0.29'

EXISTING 12" RCP

CONNECT TO NEAREST EXISTING JOINT

LABEL : P-100A
UP. INV. : 825.97
DN. INV. : 825.63
L : 12.75'
SIZE : 12"
MAT. : SSPRC CL III
SLOPE : 2.95% *

LABEL : P-100B
UP. INV. : 824.89
DN. INV. : 824.68
L : 13'
SIZE : 12"
MAT. : SSPRC CL III
SLOPE : 2.95% *

LABEL : P-101
UP. INV. : 822.50
DN. INV. : 820.74
L : 140'
SIZE : 30"
MAT. : SSPRC CL III
SLOPE : 1.32% *

LABEL : EX MH 38
RIM : 825.65
SUMP : 0.29'

CONNECT PIPE TO EXISTING MH (INCIDENTAL TO PIPE)

LABEL : MH 28
RIM : 842.64
SUMP : 0.29'

LABEL : MH 29
RIM : 838.96
SUMP : 0.29'

LABEL : MH 30
RIM : 835.16
SUMP : 0.29'

LABEL : MH 31
RIM : 828.53
SUMP : 0.29'

LABEL : MH 37
RIM : 827.72
SUMP : 3.00'

LABEL : P-92
UP. INV. : 834.84
DN. INV. : 832.97
L : 100'
SIZE : 30"
MAT. : SSPRC CL III
SLOPE : 2.00% *

LABEL : P-96
UP. INV. : 832.97
DN. INV. : 829.05
L : 116'
SIZE : 30"
MAT. : SSPRC CL III
SLOPE : 3.57% *

LABEL : P-99
UP. INV. : 829.06
DN. INV. : 822.50
L : 218'
SIZE : 30"
MAT. : SSPRC CL III
SLOPE : 3.09% *

LABEL : P-111
UP. INV. : 821.19
DN. INV. : 821.14
L : 11'
SIZE : 21"
MAT. : SSPRC CL III
SLOPE : 0.87% *

LABEL : P-112
UP. INV. : 821.11
DN. INV. : 818.99
L : 250'
SIZE : 21"
MAT. : SSPRC CL III
SLOPE : 0.86% *

NOTE:

* GRADES COMPUTED FROM OUTSIDE OF STRUCTURE TO OUTSIDE OF STRUCTURE.

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	STORM SEWER	SHEET 45	E

STRUCT NO	STATION	LOCATION	PAY LENGTH C-C FT	TO	INLET OR MANHOLE	TYPE	FLOW LINE/ RIM ELEV	TOP OF STRUCT ELEV	STRUCT DEPTH FT	SUMP DEPTH FT	DISCHARGE PIPE				
											INLET ELEV	OUTLET ELEV	SIZE IN	INSTALL LENGTH FT	SLOPE %
43	169+52.64	51.8'RT	46	44	CB	2X3-FT	841.2	840.24	4.95	2.00	837.29	837.00	12	46	0.65%
44	169+21.48	85.2'RT	N/A	N/A	AEW*	N/A	N/A	N/A	N/A	NA	N/A	N/A	12	N/A	N/A
28	169+17.73	38.5'RT	100	29	MH	6-FT DIA	842.64	841.68	7.13	NA	834.84	832.97	30	100	2.00%
29A	314+51.51	32.6'LT	29	29B	CB	2X3-FT	840.46	839.50	6.25	2.00	835.25	834.84	12	29	1.63%
29B	170+28.68	34.8'LT	76	29	CB	4-FT DIA	838.79	837.83	5.49	2.00	834.34	833.97	18	76	0.52%
ROOF DRAIN	N/A	N/A	19	29B	N/A	N/A	N/A	N/A	N/A	NA	835.47	835.17	8	19	1.73%
29	170+18.43	39.3'RT	116	30	MH	6-FT DIA	838.96	838.00	5.32	NA	832.97	829.05	30	116	3.57%
30A	171+30.30	11.4'RT	19	30	CB	3-FT DIA	835.53	834.57	5.50	2.00	831.07	830.56	12	19	3.50%
30	171+33.72	30.3'RT	218	31	MH	6-FT DIA	835.16	834.20	5.43	NA	829.06	822.50	30	218	3.09%
31	173+51.92	20.7'RT	11	37	MH	7-FT DIA	828.53	827.57	6.67	NA	821.19	821.14	21	11	0.87%
31A	173+16.58	19.5' RT	13	EX-PIPE	CB	2X3-FT	829.32	828.36	4.39	2.00	825.97	825.63	12	12.75	2.95%
EXIST PIPE	N/A	N/A	13	31	N/A	N/A	N/A	N/A	N/A	NA	824.89	824.68	12	13	2.95%
37	173+56.10	31.0'RT	250	38	MH	4-FT DIA	827.72	826.39	8.28	3.00	821.11	818.99	21	250	0.86%
38	174+91.34	19.5'RT	140	39	CB	N/A	825.65	824.69	2.48	NA	822.50	820.74	30	140	1.32%

*AEW= APRON ENDWALL

MANHOLE TYPE			CATCH BASIN TYPE			MH COVERS TYPE	INLET COVERS TYPE			SSPRC-CLASS III				PVC PIPE
4-FT DIA	6-FT DIA	7-FT DIA	2X3-FT	3-FT DIA	4-FT DIA	J	H	H-M	Z	12-INCH	18-INCH	21-INCH	30-INCH	8-INCH
1	3	1	2	1	1	1	6	1	2	119.75	76	261	574	19

2

MATCHLINE STA 175+50

176+00 177+00 178+00 179+00 180+00 181+00 182+00 183+00

STH 22 (N MAIN ST)

P-112 P-113 P-114 P-115

39 STA 176+05.37, 30.0' RT
MH 4-FT DIA / J

40 STA 178+66.00, 30.0' RT
MH 4-FT DIA / J

41 STA 181+03.84, 30.0' RT
MH 4-FT DIA / J

42 STA 181+59.02, 57.1' RT
21" RCP AEW

END PROJECT
STA 182+86.82

HSE #N10936 CONC GRAVEL SEPTIC

840 835 830 825 820 815 810 805

LABEL : MH 39
RIM : 824.29
SUMP : 3.00'

LABEL : P-113
UP. INV. : 818.96
DN. INV. : 816.73
L : 261'
SIZE : 21"
MAT. : SSPRC CL III
SLOPE : 0.87% *

LABEL : MH 40
RIM : 822.97
SUMP : 3.00'

LABEL : P-114
UP. INV. : 816.70
DN. INV. : 814.66
L : 237'
SIZE : 21"
MAT. : SSPRC CL III
SLOPE : 0.87% *

LABEL : MH 41
RIM : 820.21
SUMP : 3.00'

LABEL : P-115
UP. INV. : 814.63
DN. INV. : 814.01
L : 61'
SIZE : 21"
MAT. : SSPRC CL III
SLOPE : 1.04% *

LABEL : AEW 42
INVERT : 814.01

NOTE:

* GRADES COMPUTED FROM OUTSIDE OF STRUCTURE TO OUTSIDE OF STRUCTURE.

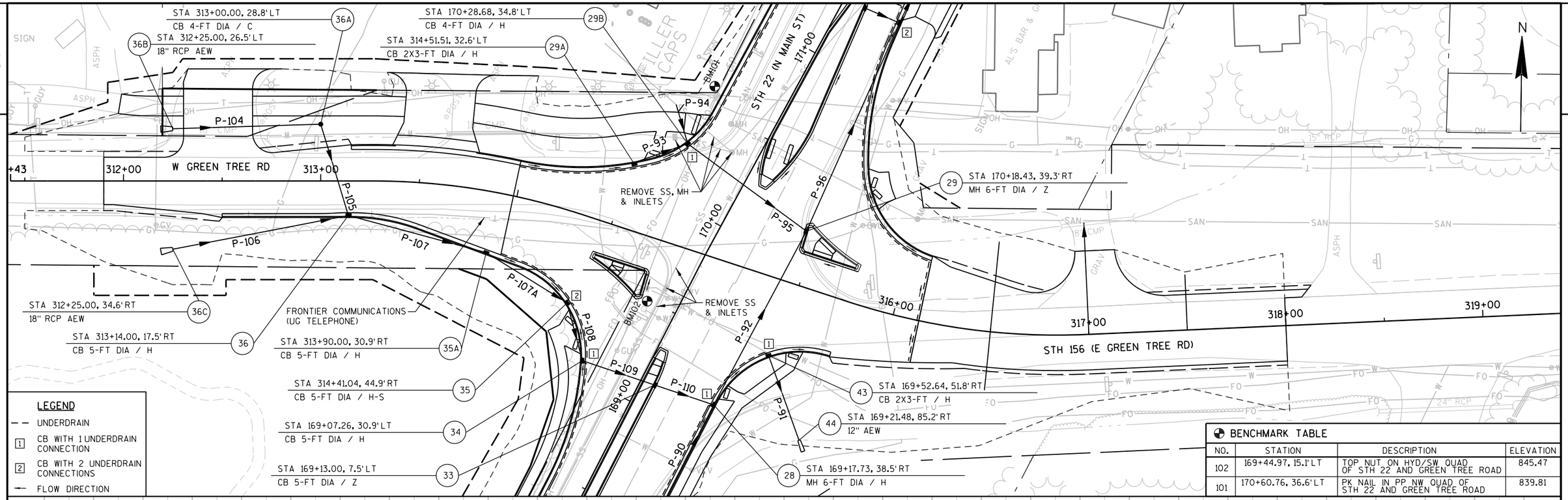
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	STORM SEWER	SHEET 47	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\SSSTH2209.dgn PLOT DATE : 4/11/2016 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41

STRUCT NO	STATION	LOCATION	PAY LENGTH C-C FT	TO	INLET OR MANHOLE	TYPE	FLOW LINE/ RIM ELEV	TOP OF STRUCT ELEV	STRUCT DEPTH FT	SUMP DEPTH FT	DISCHARGE PIPE				
											INLET ELEV	OUTLET ELEV	SIZE IN	INSTALL LENGTH FT	SLOPE %
39	176+05.37	30.0'RT	261	40	MH	4-FT DIA	824.29	822.96	7.00	3.00	818.96	816.73	21	261	0.87%
40	178+66.00	30.0'RT	237	41	MH	4-FT DIA	822.97	821.64	7.94	3.00	816.70	814.66	21	237	0.87%
41	181+03.84	30.0'RT	61	42	MH	4-FT DIA	820.21	818.88	7.25	3.00	814.63	814.01	21	61	1.04%
42	181+59.02	57.1'RT	N/A	N/A	AEW*	N/A	N/A	N/A	N/A	NA	N/A	N/A	21	N/A	N/A

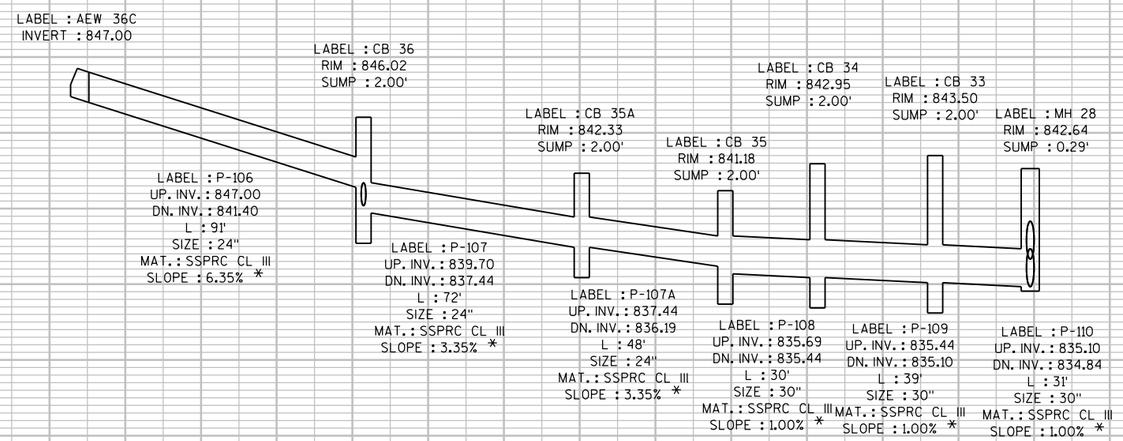
*AEW= APRON ENDWALL

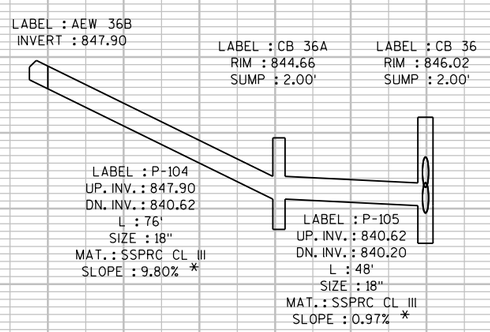
MANHOLE TYPE		MH COVERS TYPE	SSPRC-CLASS III			
4-FT DIA	5-FT DIA	J	12-INCH	15-INCH	18-INCH	21-INCH
3	0	3	0	0	0	559



BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
102	169+44.97, 15.1'LT	TOP NUT ON HYD/SW QUAD OF STH 22 AND GREEN TREE ROAD	845.47
101	170+60.76, 36.6'LT	PK NAIL IN PP NW QUAD OF STH 22 AND GREEN TREE ROAD	839.81

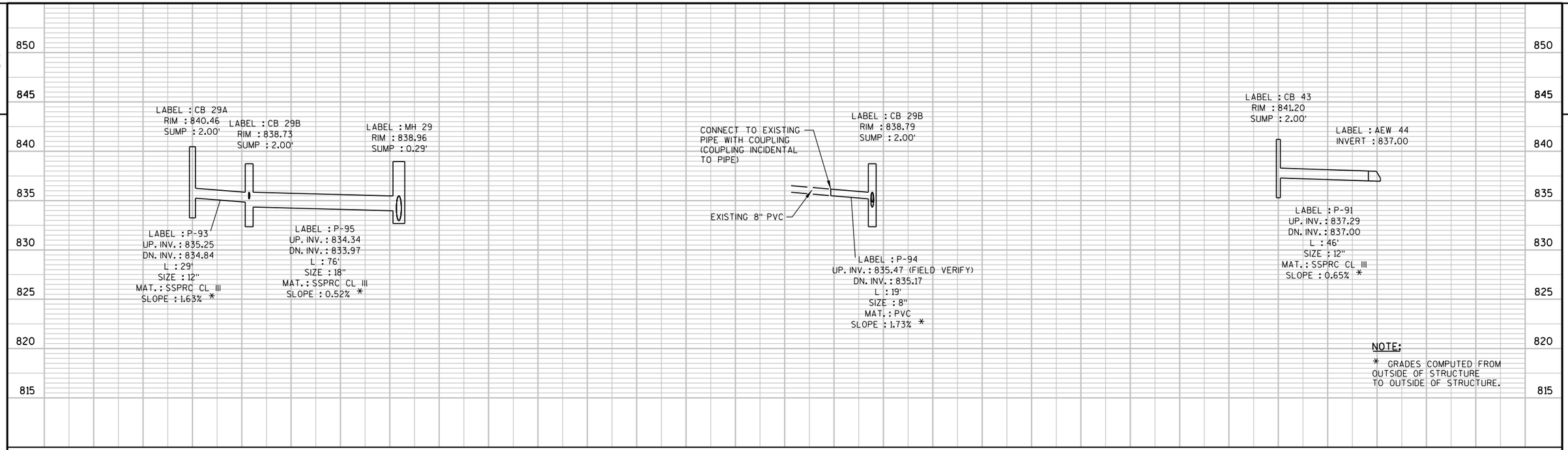




NOTE:

* GRADES COMPUTED FROM OUTSIDE OF STRUCTURE TO OUTSIDE OF STRUCTURE.

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	STORM SEWER	SHEET 49	E



STRUCT NO	STATION	LOCATION	PAY LENGTH C-C FT	TO	INLET OR MANHOLE	TYPE	FLOW LINE/ RIM ELEV	TOP OF STRUCT ELEV	STRUCT DEPTH FT	SUMP DEPTH FT	DISCHARGE PIPE				
											INLET ELEV	OUTLET ELEV	SIZE IN	INSTALL LENGTH FT	SLOPE %
36B	312+25.00	26.5'LT	76	36A	AEW*	N/A	N/A	N/A	N/A	2.00	N/A	N/A	18	76	9.80%
36A	313+00.00	28.8LT	48	36	CB	4-FT DIA	844.66	843.70	5.08	2.00	840.62	840.20	18	48	0.97%
36C	312+25.00	34.6'RT	91	36	AEW*	N/A	N/A	N/A	N/A	NA	N/A	N/A	24	91	6.35%
36	313+14.00	17.5'RT	72	36A	CB	5-FT DIA	846.02	845.06	7.36	2.00	839.70	837.44	24	72	3.35%
35A	313+90.00	30.9'RT	48	35	CB	5-FT DIA	842.33	847.37	11.93	2.00	837.44	836.19	24	48	3.35%
35	314+41.04	44.9'RT	30	34	CB	5-FT DIA	841.18	840.22	6.53	2.00	835.69	835.44	30	30	1.00%
34	169+07.26	30.9'LT	39	33	CB	5-FT DIA	842.95	841.99	8.55	2.00	835.44	835.10	30	39	1.00%
33	169+13.00	7.5'LT	31	28	CB	5-FT DIA	843.50	842.17	9.07	2.00	835.10	834.84	30	31	1.00%

*AEW= APRON ENDWALL

MANHOLE TYPE		CATCH BASIN TYPE		MH COVERS TYPE	INLET COVERS TYPE				SSPRC-CLASS III		
4-FT DIA	5-FT DIA	4-FT DIA	5-FT DIA	J	H	H-S	C	Z	18-INCH	24-INCH	30-INCH
0	0	1	5	0	3	1	1	1	124	211	100

2

13TH ST

14TH ST

213+50

214+00

223+50

224+00

226+00

226+50

129+00

130+00

131+00

132+00

133+00

134+00

135+00

MATCHLINE STA 136+00

STH 22

HSE #25

HSE #33

HSE #41

HSE #61

HSE #73

EBERHARDT & STEVENSON FUNERAL HOME & CREMATORY

SLOPE INTERCEPTS (TYP)

BEGIN PROJECT
STA 130+50.00

ANGELUS RETIREMENT COMMUNITY

HSE #26

HSE #52

HSE #62

HSE #72

HSE #76

BRICK PLANTER

FLAG POLE

SIGN

ASPH

PARKING

SHRUBS

PLANTERS

BLOCK RET. WALL

CONC

GRAV

RUINS

JTL 1

C 1

FM 1

AM 1

G 1

FC 1

LL 1

L 1

E 1

H 1

PLANT LIST	
SYMBOL	COMMON NAME
AM	AMER MACKIA
CP	CALLERY PEAR
FC	FLOWERING CRAB
LLS	LITTLE LEAF LINDEN SUMMER SPRITE
PL	PEKIN LILAC
JTL	JAPANESE TREE LILAC
C	CORKTREE
E	ELM
FM	FREEMAN MAPLE
G	GINKGO
H	HACKBERRY
L	AMERICAN LINDEN/BASSWOOD
LL	LITTLELEAF LINDEN

LEGEND

- TREE DECIDUOUS - LARGE (35')
- TREE DECIDUOUS - MEDIUM (25')
- TREE DECIDUOUS - SMALL (15')
- X / X - PLANT SYMBOL / QUANTITY
- X - TREE REMOVAL

N

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PLANTING	SHEET 51	E

2

2

SLOPE INTERCEPTS (TYP)

MATCHLINE STA 136+00

MATCHLINE STA 143+00

137+00 138+00 139+00 140+00 141+00 142+00

STH 22

236+00

246+00

247+00

15TH ST

16TH ST

HSE #77 HSE #83 HSE #87 HSE #91 HSE #95 HSE #99 HSE #105 HSE #111 HSE #115 HSE #119

HSE #78 HSE #80 HSE #88

FAMILY DOLLAR STORE

EVERSON'S LAUNDRY

CHRISTUS LUTHERAN CHURCH

CANOPY

SIGN

CONC. CURB

CONC. SIDEWALK

ASPH

CONC

GRAV

BLK RET WALL

FLOWER BED

TRAILER

PLANT LIST	
SYMBOL	COMMON NAME
AM	AMER MACKIA
CP	CALLERY PEAR
FC	FLOWERING CRAB
LLS	LITTLE LEAF LINDEN SUMMER SPRITE
PL	PEKIN LILAC
JTL	JAPANESE TREE LILAC
C	CORKTREE
E	ELM
FM	FREEMAN MAPLE
G	GINKGO
H	HACKBERRY
L	AMERICAN LINDEN/BASSWOOD
LL	LITTLELEAF LINDEN

LEGEND

- TREE DECIDUOUS - LARGE (35')
- TREE DECIDUOUS - MEDIUM (25')
- TREE DECIDUOUS - SMALL (15')
- X / X - PLANT SYMBOL / QUANTITY
- X - TREE REMOVAL

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PLANTING	SHEET	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\LSSTH2202.dgn PLOT DATE : 4/11/2016 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

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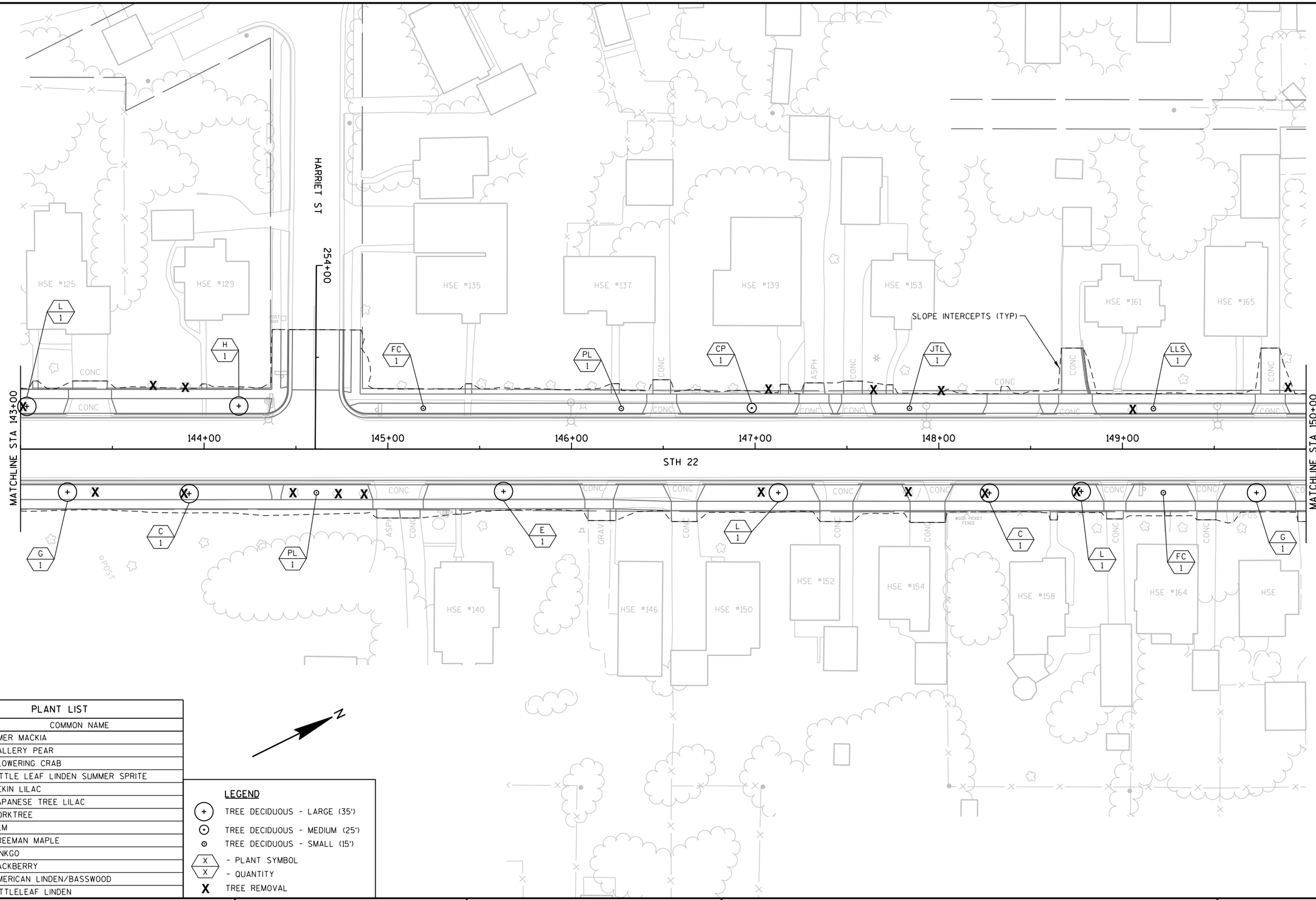


PLANT LIST	
SYMBOL	COMMON NAME
AM	AMER MACKIA
CP	CALLERY PEAR
FC	FLOWERING CRAB
LLS	LITTLE LEAF LINDEN SUMMER SPRITE
PL	PEKIN LILAC
JTL	JAPANESE TREE LILAC
C	CORKTREE
E	ELM
FM	FREEMAN MAPLE
G	GINKGO
H	HACKBERRY
L	AMERICAN LINDEN/BASSWOOD
LL	LITTLELEAF LINDEN

N

LEGEND

- (+) TREE DECIDUOUS - LARGE (35')
- (⊙) TREE DECIDUOUS - MEDIUM (25')
- (⊙) TREE DECIDUOUS - SMALL (15')
- X / X - PLANT SYMBOL / QUANTITY
- X TREE REMOVAL

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PLANTING	SHEET 53	E

2

17TH ST

18TH ST

264+00

274+00

151+00

152+00

153+00

154+00

155+00

156+00

MATCHLINE STA 150+00

MATCHLINE STA 157+00

STH 22

HSE #169

HSE #177

HSE #181

HSE #183

HSE #187

HSE #193

HSE #203

HSE #205

HSE #207

HSE #21

JTL 1

PL 1

FC 1

LLS 1

JTL 1

CP 1

AM 1

PL 1

FC 1

LL 1

FM 1

G 1

E 1

CP 1

L 1

C 1

L 1

E 1

FC 1

HSE #172

HSE #180

HSE #182

HSE #184

HSE #186

HSE #192

HSE #194

HSE #198

HSE #206

SLOPE INTERCEPTS (TYP)

286+00

286+50

19TH ST

N

PLANT LIST	
SYMBOL	COMMON NAME
AM	AMER MACKIA
CP	CALLERY PEAR
FC	FLOWERING CRAB
LLS	LITTLE LEAF LINDEN SUMMER SPRITE
PL	PEKIN LILAC
JTL	JAPANESE TREE LILAC
C	CORKTREE
E	ELM
FM	FREEMAN MAPLE
G	GINKGO
H	HACKBERRY
L	AMERICAN LINDEN/BASSWOOD
LL	LITTLELEAF LINDEN

LEGEND

- TREE DECIDUOUS - LARGE (35')
- TREE DECIDUOUS - MEDIUM (25')
- TREE DECIDUOUS - SMALL (15')
- X / X - PLANT SYMBOL / QUANTITY
- X - TREE REMOVAL

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PLANTING	SHEET 54	E

2

2

CLINTONVILLE
MIDDLE SCHOOL

20TH ST

293+50

294+00

HSE #241

HSE #215

PL
1

SHRUB

SHRUB

SHRUB

SLOPE INTERCEPTS (TYP)

SIGN

FLOWER BED

FLOWER BED

MATCHLINE STA 157+00

158+00

159+00

160+00

161+00

162+00

163+00

MATCHLINE STA 164+00

STH 22

CONC

CONC

CONC

CONC

ASPH

ASPH

ASPH

CONC

CONC

CP
1

AM
1

L
1

CP
1

H
1

E
1

HSE #220

HSE #230

HSE #240

HSE #246

HSE #256

ANT.

GAR

HSE #250

306+00

306+50

PARK ST

N

PLANT LIST	
SYMBOL	COMMON NAME
AM	AMER MACKIA
CP	CALLERY PEAR
FC	FLOWERING CRAB
LLS	LITTLE LEAF LINDEN SUMMER SPRITE
PL	PEKIN LILAC
JTL	JAPANESE TREE LILAC
C	CORKTREE
E	ELM
FM	FREEMAN MAPLE
G	GINKGO
H	HACKBERRY
L	AMERICAN LINDEN/BASSWOOD
LL	LITTLELEAF LINDEN

LEGEND

- (+) TREE DECIDUOUS - LARGE (35')
- (⊙) TREE DECIDUOUS - MEDIUM (25')
- (⊙ small) TREE DECIDUOUS - SMALL (15')
- (X / X) - PLANT SYMBOL / - QUANTITY
- X TREE REMOVAL

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PLANTING	SHEET 55	E

PLANT DATA CHART

SYM.	COMMON NAME	SCIENTIFIC NAME	TYPE	AVERAGE MATURE HEIGHT	SIZE (CAL. OR HT.) WHEN PLANTED	ROOT ZONE MODE	MINIMUM SIZE BALL/POT DIAM. (INCHES)	BALL/POT DEPTH (INCHES)	BALL/POT ROOT SPREAD	PLANT HOLE DIAM. (INCHES	PLANT HOLE DEPTH (INCHES)	BRACE OR GUY	FERT. UNITS REQ'D	RODENT PROTCT REQ'D	MULCH RING DIAM.
AM	AMER MACKIA	MAACKIA AMURENSIS	2T	25	1.5" CAL.	B&B	20	12	NA	40	12	NO	3	NO	56
CP	CALLERY PEAR	PYRUS CALLERYANA	3T	30	1.5" CAL.	B&B	20	12	NA	40	12	NO	3	NO	56
FC	FLOWERING CRAB	MALUS SPECIES	3T	15	1.5" CAL.	B&B	20	12	NA	40	12	NO	3	NO	56
LLS	LITTLE LEAF LINDEN SUMMER SPRITE	TILIA CORDATA 'HALKA'	2T	18	1.5" CAL.	B&B	20	12	NA	40	12	NO	3	NO	56
PL	PEKIN LILAC	SYRINGA PEKINENSIS	2T	20	1.5" CAL.	B&B	20	12	NA	40	12	NO	3	NO	56
JTL	JAPANESE TREE LILAC	SYRINGA RETICULATA	2T	20	1.5" CAL.	B&B	20	12	NA	40	12	NO	3	NO	56
C	CORKTREE	PHELLODENDRON LAVALLEI	1T	40	2" CAL.	B&B	24	14	NA	48	14	NO	4	NO	60
E	ELM	ULMUS SPECIES	1T	75	2" CAL.	B&B	24	14	NA	48	14	NO	4	NO	60
FM	FREEMAN MAPLE	ACER X FREMANII	1T	50	2" CAL.	B&B	24	14	NA	48	14	NO	4	NO	60
G	GINKGO	GINKGO BILOBA	1T	65	2" CAL.	CG	20	14 3/8	NA	40	14	NO	4	NO	60
H	HACKBERRY	CELTIS OCCIDENTALIS	1T	60	2" CAL.	B&B	24	14	NA	48	14	NO	4	NO	60
L	AMERICAN LINDEN/BASSWOOD	TILIA SPECIES	1T	70	2" CAL.	B&B	24	14	NA	48	14	NO	4	NO	60
LL	LITTLELEAF LINDEN	TILIA CORDATA	2T	60	1.5" CAL.	B&B	20	12	NA	40	12	NO	3	NO	56

B&B: BALLED AND BURLAPPED
CG: CONTAINER GROWN

* CONTAINER GROWN (CG) MAY BE SUBSTITUTED FOR BALLED AND BURLAPPED (B&B)

2

213+50

214+00

13TH ST

130+00

131+00

132+00

133+00

134+00

W 14TH ST

223+50

224+00

135+00

136+00

MATCHLINE STA 137+00

STH 22 (N MAIN ST)

E 14TH ST

226+00

226+50

BEGIN PROJECT
STA 130+50.00

INSTALL
1-11 NO PARKING ANY TIME
R7-1R
18" X 24"

REMOVE
1-10 NO PARKING THIS SIDE OF STREET

REMOVE
1-9 NO PARKING THIS SIDE OF STREET

* REPLACE
1-8 SPEED LIMIT 25
R2-1
24" X 30"

INSTALL
1-7 BIKE LANE
R3-17
30" X 24"
NO PARKING ANY TIME
R7-1L
18" X 24"
②

REPLACE
1-6 STOP
R1-1
30" X 30"

* INSTALL
1-5 NO PARKING ANY TIME ②
R7-1R
18" X 24"

INSTALL
1-4 NO PARKING ANY TIME ②
R7-1L
18" X 24"

REPLACE
1-3 STOP
R1-1
30" X 30"

INSTALL
1-1 BIKE LANE
R3-17
30" X 24"
NO PARKING ANY TIME
R7-1D
18" X 24"
②

REPLACE
1-2 SPEED LIMIT 25
R2-1
24" X 30"
NO PARKING ANY TIME
R7-1R
18" X 24"
②
INSTALL

N

SIGNING GENERAL NOTES

ALL SIGNS THAT ARE MOUNTED TO LIGHT POLES AND OVERHANG THE SIDEWALK SHALL HAVE A MOUNTING HEIGHT OF 7'-3" MIN.

ALL EXISTING STOP SIGNS AND SPEED LIMIT SIGNS SHALL BE SALVAGED FOR THE CITY OF CLINTONVILLE.

REMOVE = REMOVING SIGNS TYPE II AND REMOVING SMALL SIGN SUPPORTS.

REPLACE = REMOVING SIGNS TYPE II, REMOVING SMALL SIGN SUPPORTS, SIGNS TYPE II REFLECTIVE H/F AND POSTS WOOD (SIZE) OR POSTS TUBULAR STEEL (SIZE) OR POSTS STEEL 2⅜" DIAMETER.

INSTALL = SIGNS TYPE II REFLECTIVE H/F, AND POSTS WOOD (SIZE) OR POSTS TUBULAR STEEL (SIZE).

MOVE = MOVING SIGNS TYPE II, REMOVING SMALL SIGN SUPPORTS AND POSTS WOOD (SIZE) OR POSTS TUBULAR STEEL (SIZE) OR POSTS STEEL 2⅜" DIAMETER.

① SIGN SHOWN FOR REFERENCE ONLY. CITY OWNED SIGNS TO BE REMOVED BY CITY PERSONNEL INCLUDING ANY CITY OWNED SIGNS NOT SHOWN ON THIS PLAN.

② ROTATE NO PARKING SIGNS 45° TO ROADWAY

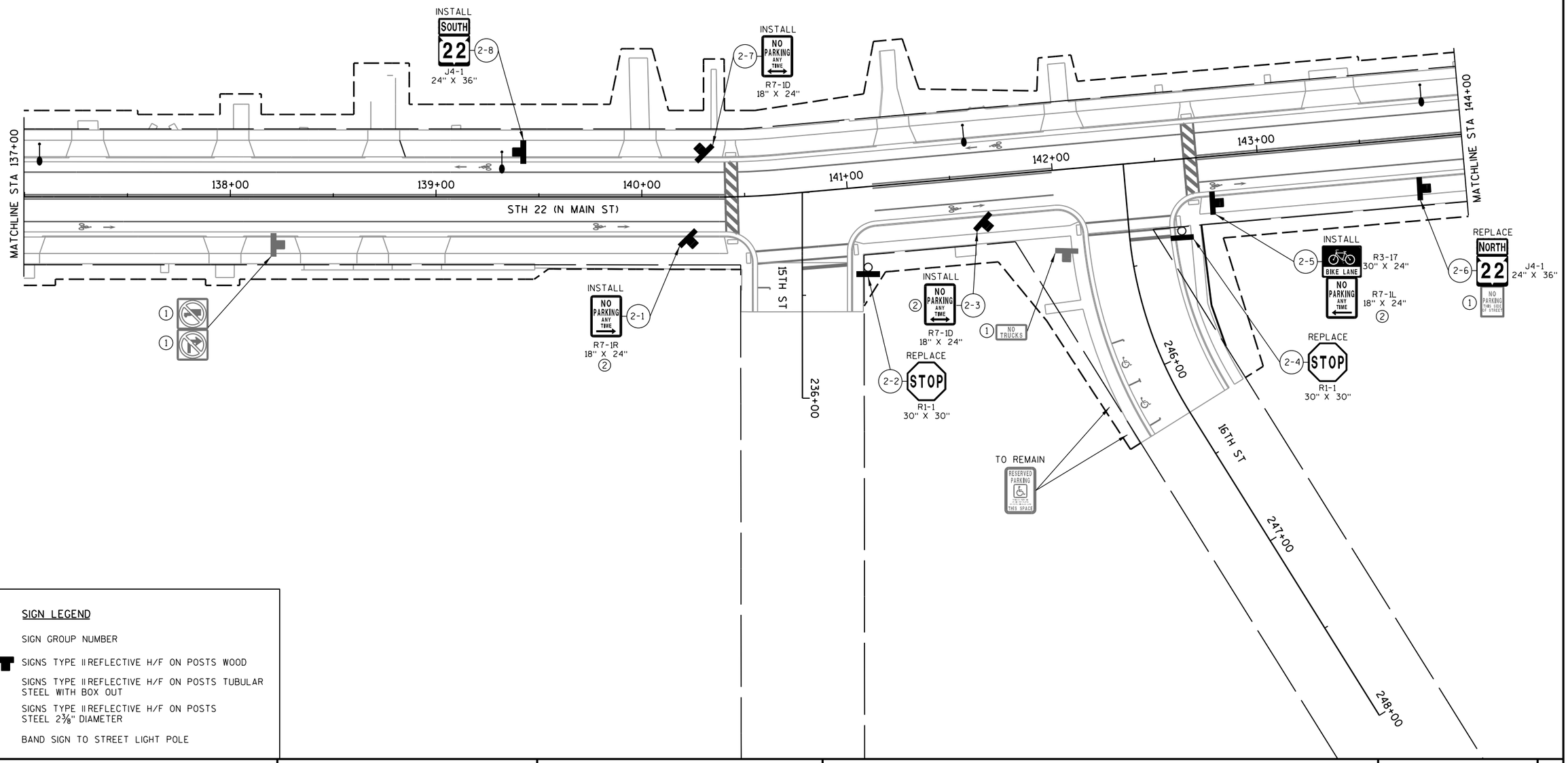
③ REMOVEABLE POST

SIGN LEGEND

- X-X — SIGN GROUP NUMBER
- SIGNS TYPE II REFLECTIVE H/F ON POSTS WOOD
- SIGNS TYPE II REFLECTIVE H/F ON POSTS TUBULAR STEEL WITH BOX OUT
- SIGNS TYPE II REFLECTIVE H/F ON POSTS STEEL 2⅜" DIAMETER
- * BAND SIGN TO STREET LIGHT POLE

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PERMANENT SIGNING	SHEET 57	E

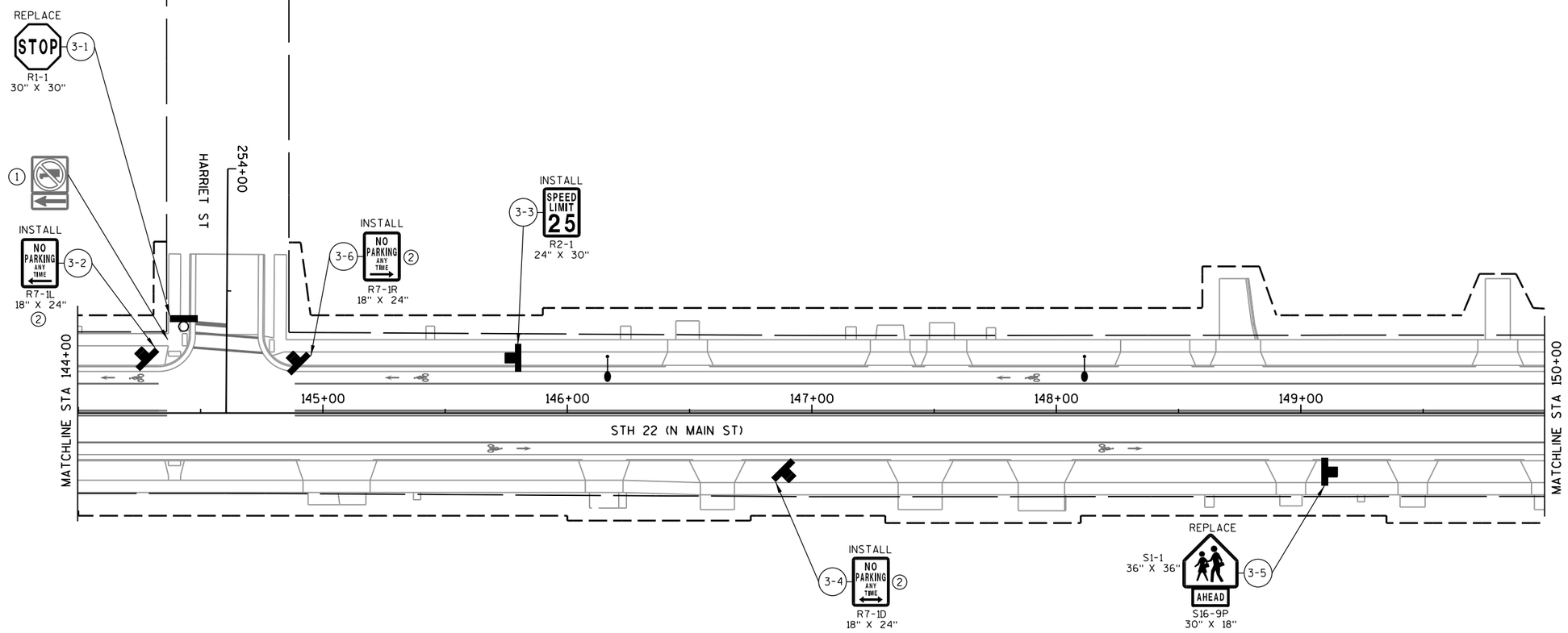
2



SIGN LEGEND

- (X-X) — SIGN GROUP NUMBER
- SIGNS TYPE II REFLECTIVE H/F ON POSTS WOOD
- SIGNS TYPE II REFLECTIVE H/F ON POSTS TUBULAR STEEL WITH BOX OUT
- SIGNS TYPE II REFLECTIVE H/F ON POSTS STEEL 2⅜" DIAMETER
- BAND SIGN TO STREET LIGHT POLE

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PERMANENT SIGNING	SHEET 58	E



SIGN LEGEND

- (X-X) SIGN GROUP NUMBER
- SIGNS TYPE II REFLECTIVE H/F ON POSTS WOOD
- SIGNS TYPE II REFLECTIVE H/F ON POSTS TUBULAR STEEL WITH BOX OUT
- SIGNS TYPE II REFLECTIVE H/F ON POSTS STEEL 2⅜" DIAMETER
- BAND SIGN TO STREET LIGHT POLE

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PERMANENT SIGNING	SHEET 59	E

2

N

REPLACE
STOP 4-2
R1-1
30" X 30"

INSTALL
R3-17
30" X 24"
BIKE LANE
R7-1L
18" X 24"
NO PARKING ANY TIME 4-1
(2)

117TH ST

264+00

INSTALL
4-3 NO PARKING ANY TIME (2)
R7-1R
18" X 24"

REPLACE
SPEED LIMIT 25 4-4
R2-1
24" X 30"

INSTALL
(2) NO PARKING ANY TIME 4-5
R7-1L
18" X 24"

REPLACE
STOP 4-6
R1-1
30" X 30"

118TH ST

274+00

INSTALL
4-8 NO PARKING ANY TIME (2)
R7-1R
18" X 24"

REMOVE
4-7

REPLACE
SOUTH 22 4-9
J4-1
24" X 36"

MATCHLINE STA 150+00

151+00 152+00 153+00 154+00 155+00 156+00

MATCHLINE STA 157+00

STH 22 (N MAIN ST)

INSTALL
4-15 NO PARKING ANY TIME
R7-1D
18" X 24"
(2)

REMOVE
4-14

REPLACE
JCT 156 4-13
J1-1
24" X 39"

INSTALL
4-12 NO PARKING ANY TIME
R7-1R
18" X 24"
(2)

191ST ST

INSTALL
4-10 NO PARKING ANY TIME (2)
R7-1L
18" X 24"

REPLACE
4-11 STOP
R1-1
30" X 30"

286+00

286+50

SIGN LEGEND

- (X-X) SIGN GROUP NUMBER
- SIGNS TYPE II REFLECTIVE H/F ON POSTS WOOD
- SIGNS TYPE II REFLECTIVE H/F ON POSTS TUBULAR STEEL WITH BOX OUT
- SIGNS TYPE II REFLECTIVE H/F ON POSTS STEEL 2⅜" DIAMETER
- BAND SIGN TO STREET LIGHT POLE

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PERMANENT SIGNING	SHEET 60	E

2

2

CLINTONVILLE
MIDDLE SCHOOL

293+50

294+00

20TH ST

SCHOOL PROPERTY LINE

MATCHLINE STA 157+00

MATCHLINE STA 164+00

158+00 159+00 160+00 161+00 162+00 163+00

STH 22 (N MAIN ST)

N PARK ST

306+00

306+50

WF11-2
30" X 30"
5-12
WF16-7L
24" X 12"

REPLACE
STOP
5-2
R1-1
30" X 30"

INSTALL
NO PARKING ANY TIME
2
5-1
R7-1D
18" X 24"

INSTALL
5-3
NO PARKING ANY TIME
2
R7-1R
18" X 24"

INSTALL
END SCHOOL ZONE
5-11
S5-2
24" X 30"

REMOVE
5-4
AHEAD

INSTALL
NO PARKING ANY TIME
5-5
R7-1D
18" X 24"
2

WF11-2
30" X 30"
5-13
WF16-7L
24" X 12"

1
UNITED METHODIST CHURCH

INSTALL
S1-1
36" X 36"
5-14
AHEAD
FINES HIGHER
S16-9P
30" X 18"
R2-6P
24" X 18"

INSTALL
2
NO PARKING ANY TIME
5-9
R7-1R
18" X 24"

1
ST PAUL LUTHERN CHURCH

1
NEIGHBORHOOD WATCH

REPLACE
SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT
5-10
S4-51
24" X 48"
1

INSTALL
5-7
BIKE LANE
R3-17
30" X 24"
NO PARKING ANY TIME
R7-1L
18" X 24"
2

REPLACE
5-8
STOP
R1-1
30" X 30"

REPLACE
NORTH EAST
22 156
5-6
J2-2
48" X 57"

SIGN LEGEND

X-X SIGN GROUP NUMBER

SIGNS TYPE II REFLECTIVE H/F ON POSTS WOOD

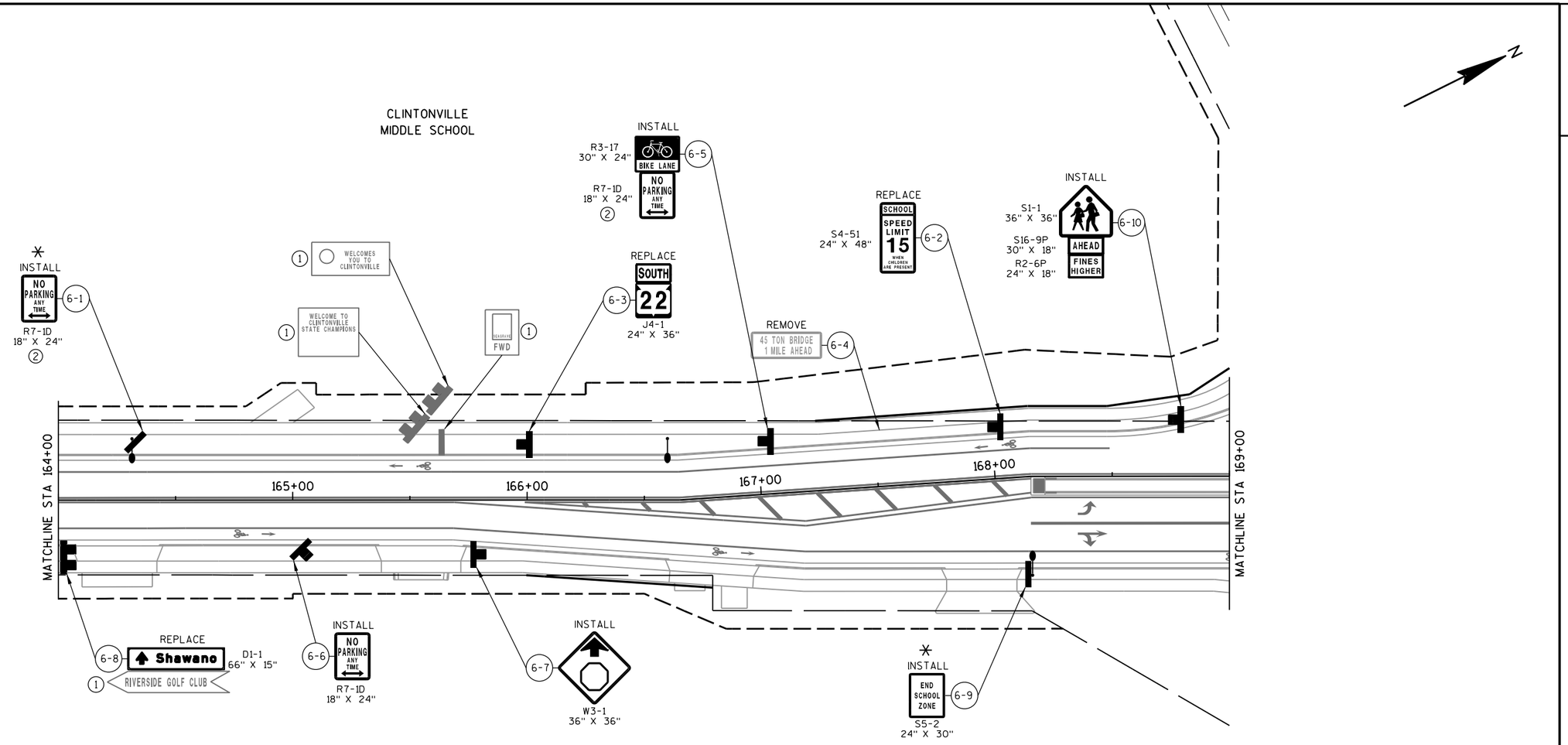
SIGNS TYPE II REFLECTIVE H/F ON POSTS TUBULAR STEEL WITH BOX OUT

SIGNS TYPE II REFLECTIVE H/F ON POSTS STEEL 2⅜" DIAMETER

BAND SIGN TO STREET LIGHT POLE

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PERMANENT SIGNING	SHEET 61	E

2



SIGN LEGEND

- X-X — SIGN GROUP NUMBER
- SIGNS TYPE II REFLECTIVE H/F ON POSTS WOOD
- SIGNS TYPE II REFLECTIVE H/F ON POSTS TUBULAR STEEL WITH BOX OUT
- SIGNS TYPE II REFLECTIVE H/F ON POSTS STEEL 2⅜" DIAMETER
- BAND SIGN TO STREET LIGHT POLE

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PERMANENT SIGNING	SHEET 62	E

2

SIGN LEGEND

- X-X — SIGN GROUP NUMBER
- SIGNS TYPE II REFLECTIVE H/F ON POSTS WOOD
- SIGNS TYPE II REFLECTIVE H/F ON POSTS TUBULAR STEEL WITH BOX OUT
- SIGNS TYPE II REFLECTIVE H/F ON POSTS STEEL 2⅜" DIAMETER
- BAND SIGN TO STREET LIGHT POLE

N

313+00 W GREEN TREE RD

MATCHLINE STA 169+00

MATCHLINE STA 176+00

170+00 171+00 172+00 173+00 174+00 175+00

STH 22

316+00

317+00 STH 156 (E GREEN TREE RD)

7-1 REPLACE 36" X 36" S1-1

7-2 REPLACE SPEED LIMIT 25 R2-1 24" X 30"

7-3 REPLACE EAST 156 J2-1 24" X 57" (1) GREEN TREE MULTIN COUNTY DRIVE

7-4 INSTALL STOP R1-1 30" X 30" R1-3P 18" X 6"

7-5 INSTALL STOP R1-1 30" X 30" R1-3P 18" X 6"

7-6 REPLACE Clintonville POPULATION 4559 I2-3 78" X 24"

7-7 INSTALL BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4 36" X 30"

7-8 INSTALL W3-1 36" X 36"

7-9 REPLACE SPEED LIMIT 25 R2-1 24" X 30" (1) 30 MINUTE PARKING ON ALL CITY STREETS

7-10 REPLACE NO PASSING ZONE W14-3 48" X 36"

7-11 MOVE LIONS CLUB SPONSOR TROOP 28 BOY SCOUTS OF AMERICA

7-12 INSTALL R3-17 30" X 24" BIKE LANE ENDS R3-17BP 30" X 12"

7-13 REPLACE SPEED LIMIT 35 R2-1 24" X 30"

7-14 REPLACE Shawano 14 D2-1 72" X 15"

7-15 REPLACE NORTH 22 J4-1 24" X 36"

7-16 INSTALL R4-7 24" X 30"

7-17 REPLACE STOP R1-1 30" X 30" R1-3P 18" X 6"

7-18 INSTALL STOP R1-1 30" X 30" R1-3P 18" X 6"

7-19 INSTALL W12-1D 24" X 24"

7-20 REPLACE SOUTH NORTH 22 22 J2-2 48" X 57"

7-21 REPLACE EAST 156 J4-1 24" X 36"

7-22 REMOVE POST WITH NO SIGN

7-23 REPLACE EAST 156 J2-1 24" X 57"

7-24 INSTALL STOP R1-1 30" X 30" R1-3P 18" X 6"

7-25 INSTALL STOP R1-1 30" X 30" R1-3P 18" X 6"

7-26 INSTALL R4-7 24" X 30"

7-27 INSTALL R4-7 24" X 30"

7-28 REPLACE STOP R1-1 30" X 30" R1-3P 18" X 6"

7-29 INSTALL STOP R1-1 30" X 30" R1-3P 18" X 6"

7-30 INSTALL W12-1D 24" X 24"

POST

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PERMANENT SIGNING	SHEET 63	E

2

2

SIGN LEGEND

- (X-X) SIGN GROUP NUMBER
- SIGNS TYPE II REFLECTIVE H/F ON POSTS WOOD
- SIGNS TYPE II REFLECTIVE H/F ON POSTS TUBULAR STEEL WITH BOX OUT
- SIGNS TYPE II REFLECTIVE H/F ON POSTS STEEL 2 3/8" DIAMETER
- BAND SIGN TO STREET LIGHT POLE

N

MATCHLINE STA 176+00

177+00 178+00 179+00 180+00 181+00 182+00 183+00

STH 22

8-1 INSTALL BIKE LANE AHEAD R3-17 30" X 24" R3-17AP 30" X 12"

8-2 REPLACE SPEED LIMIT 35 R2-1 24" X 30"

8-3 REPLACE STOP SCHOOL BUS FLASHING RED LIGHTS STATE LAW R59-51 36" X 36"

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PERMANENT SIGNING	SHEET 64	E

STREET LIGHTING PLANS PREPARED BY

WISCONSIN
MIKE D. SCARMON
E-37613
EVANSVILLE, WI
PROFESSIONAL ENGINEER

7-21-2015 (DATE) (SIGNATURE)

GENERAL STREET LIGHTING NOTES:

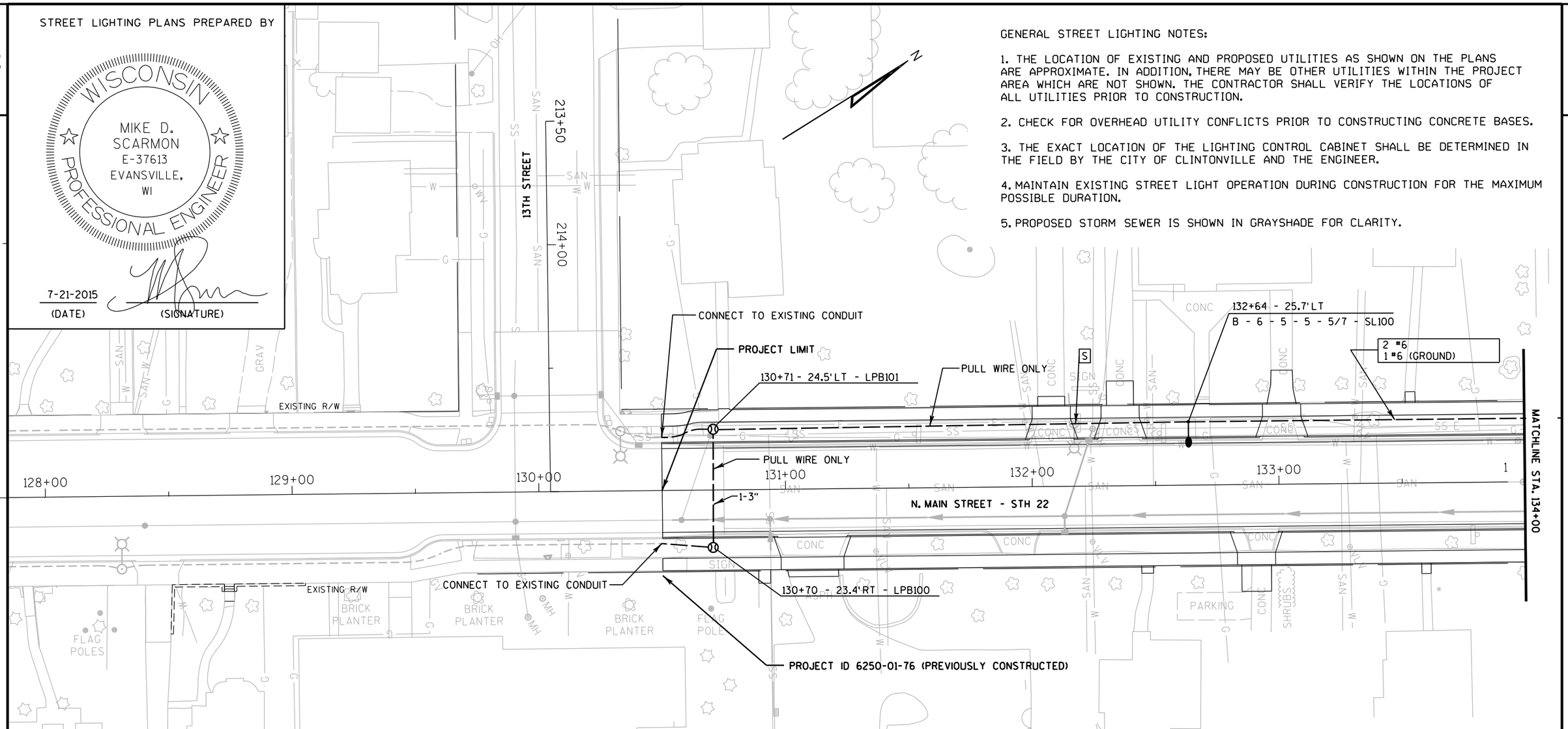
1. THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

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

3. THE EXACT LOCATION OF THE LIGHTING CONTROL CABINET SHALL BE DETERMINED IN THE FIELD BY THE CITY OF CLINTONVILLE AND THE ENGINEER.

4. MAINTAIN EXISTING STREET LIGHT OPERATION DURING CONSTRUCTION FOR THE MAXIMUM POSSIBLE DURATION.

5. PROPOSED STORM SEWER IS SHOWN IN GRAYSHADE FOR CLARITY.



LIGHTING PLAN LEGEND

- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (UNLESS OTHERWISE NOTED)
- EXISTING UNDERGROUND CONDUIT / WIRING
- STREET LIGHTING UNIT
- EXISTING LIGHTING UNIT
- PULL BOXES STEEL 24X42-INCH
- LIGHTING CONTROL CABINET & BASE
- [S] SALVAGE EXISTING STREET LIGHT & REMOVE CONCRETE BASE

STATION — OFFSET

122+51 - 29.5 LT

B - 6 - 5 - 5 - 1/3 - SL100 ← STREET LIGHT NUMBER

- CIRCUIT BREAKERS
- POLE TYPE
- BASE TYPE
- MAST ARM LENGTH
- LED TYPE

WIRING LEGEND

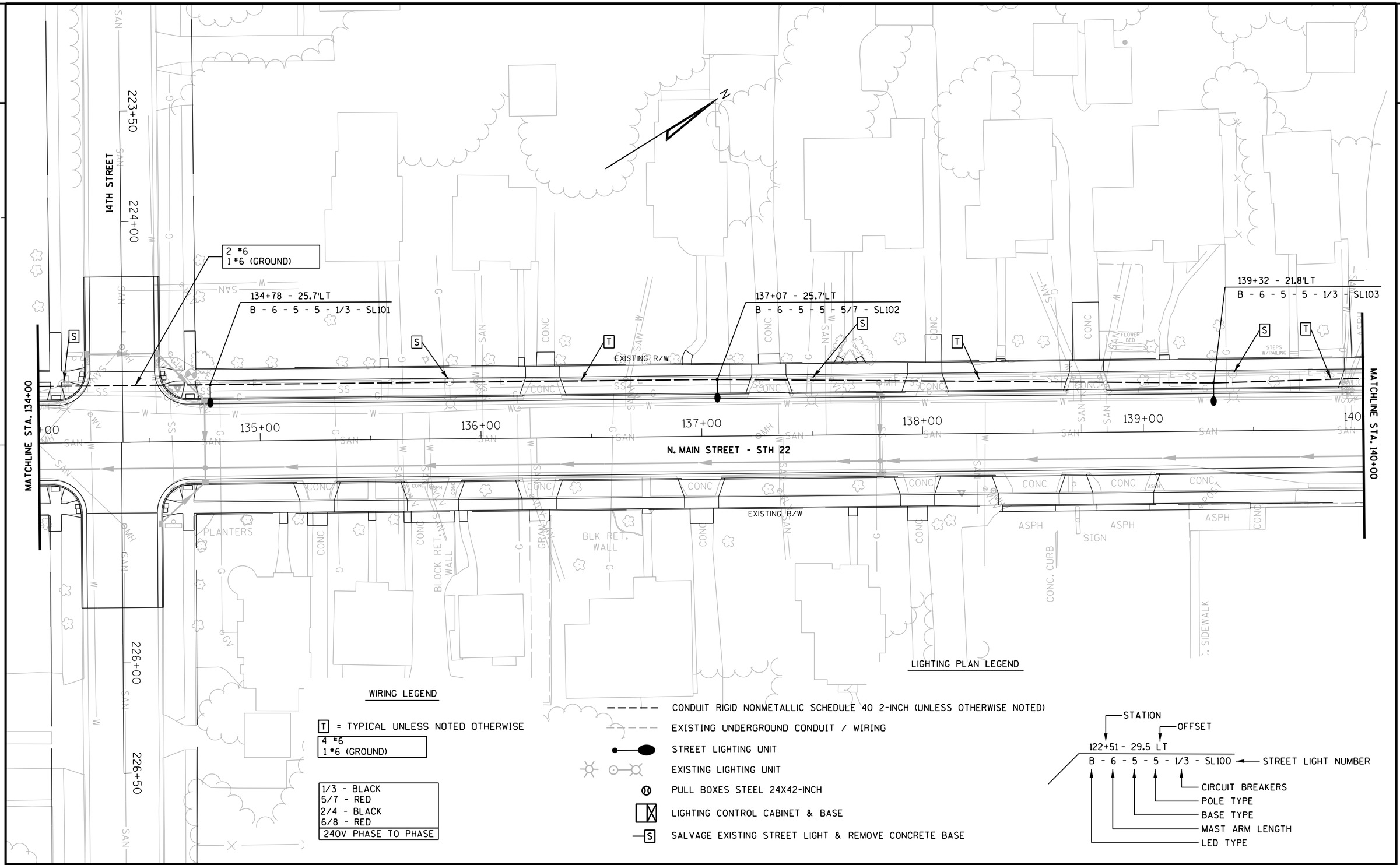
[T] = TYPICAL UNLESS NOTED OTHERWISE

4 #6 1 #6 (GROUND)

1/3 - BLACK
5/7 - RED
2/4 - BLACK
6/8 - RED
240V PHASE TO PHASE

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	LIGHTING PLANS	SHEET 65	E

2



WIRING LEGEND

T = TYPICAL UNLESS NOTED OTHERWISE

4 #6
1 #6 (GROUND)

1/3 - BLACK
5/7 - RED
2/4 - BLACK
6/8 - RED
240V PHASE TO PHASE

LIGHTING PLAN LEGEND

- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (UNLESS OTHERWISE NOTED)
- EXISTING UNDERGROUND CONDUIT / WIRING
- STREET LIGHTING UNIT
- EXISTING LIGHTING UNIT
- PULL BOXES STEEL 24X42-INCH
- LIGHTING CONTROL CABINET & BASE
- [S] SALVAGE EXISTING STREET LIGHT & REMOVE CONCRETE BASE

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	LIGHTING PLANS	SHEET 66	E

WIRING LEGEND

T = TYPICAL UNLESS NOTED OTHERWISE

4 #6
1 #6 (GROUND)

1/3 - BLACK
5/7 - RED
2/4 - BLACK
6/8 - RED
240V PHASE TO PHASE

141+58 - 25.7'LT
B - 6 - 5 - 5 - 5/7 - SL104

143+82 - 25.7'LT
B - 6 - 5 - 5 - 1/3 - SL105

REMOVE EXISTING LIGHTING CABINET

ABANDON EXISTING CONDUIT & WIRING

HARRIET STREET

254+00

EXISTING R/W

MATCHLINE STA. 140+00

MATCHLINE STA. 146+00

141+00 142+00 143+00 144+00 145+00

N. MAIN STREET - STH 22

15TH STREET

236+00

246+00

16TH STREET

CANOPY

SIGN

LOADING DOCK

LIGHTING PLAN LEGEND

STATION
OFFSET
122+51 - 29.5 LT
B - 6 - 5 - 5 - 1/3 - SL100 ← STREET LIGHT NUMBER

- CIRCUIT BREAKERS
- POLE TYPE
- BASE TYPE
- MAST ARM LENGTH
- LED TYPE

CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (UNLESS OTHERWISE NOTED)

EXISTING UNDERGROUND CONDUIT / WIRING

STREET LIGHTING UNIT

EXISTING LIGHTING UNIT

PULL BOXES STEEL 24X42-INCH

LIGHTING CONTROL CABINET & BASE

S SALVAGE EXISTING STREET LIGHT & REMOVE CONCRETE BASE

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	LIGHTING PLANS	SHEET 67	E

2

146+16 - 23.2'LT
B - 6 - 5 - 5 - 5/7 - SL106

148+12 - 23.2'LT
B - 6 - 5 - 5 - 1/3 - SL107

150+44 - 23.2'LT
B - 6 - 5 - 5 - 5/7 - SL108

17TH STREET

264+00

EXISTING R/W

MATCHLINE STA. 146+00

147+00

148+00

149+00

150+00

151+00

152

N. MAIN STREET - STH 22

MATCHLINE STA. 152+00

EXISTING R/W

WOOD PICKET FENCE

WIRING LEGEND

T = TYPICAL UNLESS NOTED OTHERWISE

4 #6
1 #6 (GROUND)

1/3 - BLACK
5/7 - RED
2/4 - BLACK
6/8 - RED
240V PHASE TO PHASE

LIGHTING PLAN LEGEND

- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (UNLESS OTHERWISE NOTED)
- EXISTING UNDERGROUND CONDUIT / WIRING
- STREET LIGHTING UNIT
- EXISTING LIGHTING UNIT
- PULL BOXES STEEL 24X42-INCH
- LIGHTING CONTROL CABINET & BASE
- S SALVAGE EXISTING STREET LIGHT & REMOVE CONCRETE BASE

STATION
OFFSET
122+51 - 29.5 LT
B - 6 - 5 - 5 - 1/3 - SL100 ← STREET LIGHT NUMBER
CIRCUIT BREAKERS
POLE TYPE
BASE TYPE
MAST ARM LENGTH
LED TYPE

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	LIGHTING PLANS	SHEET 68	E

2

18TH STREET

154+26 - 133.8'LT - LCB100
(FIELD LOCATE)

1-3"

154+26 - 125.8'LT - LPB103

8 #6
2 #6 (GROUND)

1-3"

274+00

152+66 - 22.7'LT
B - 6 - 5 - 5 - 1/3 - SL109

154+12 - 22.0'LT - LPB102

154+85 - 22.7'LT
B - 6 - 5 - 5 - 2/4 - SL110

157+17 - 22.7'LT
B - 6 - 5 - 5 - 6/8 - SL111

EXISTING R/W

MATCHLINE STA. 152+00

153+00

154+00

155+00

156+00

157+00

MATCHLINE STA. 157+50

N. MAIN STREET - STH 22

EXISTING R/W

286+00

286+50

19TH STREET

LIGHTING PLAN LEGEND

CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (UNLESS OTHERWISE NOTED)

EXISTING UNDERGROUND CONDUIT / WIRING

STREET LIGHTING UNIT

EXISTING LIGHTING UNIT

PULL BOXES STEEL 24X42-INCH

LIGHTING CONTROL CABINET & BASE

[S] SALVAGE EXISTING STREET LIGHT & REMOVE CONCRETE BASE

122+51 - 29.5 LT
B - 6 - 5 - 5 - 1/3 - SL100

- STATION
- OFFSET
- STREET LIGHT NUMBER
- CIRCUIT BREAKERS
- POLE TYPE
- BASE TYPE
- MAST ARM LENGTH
- LED TYPE

WIRING LEGEND

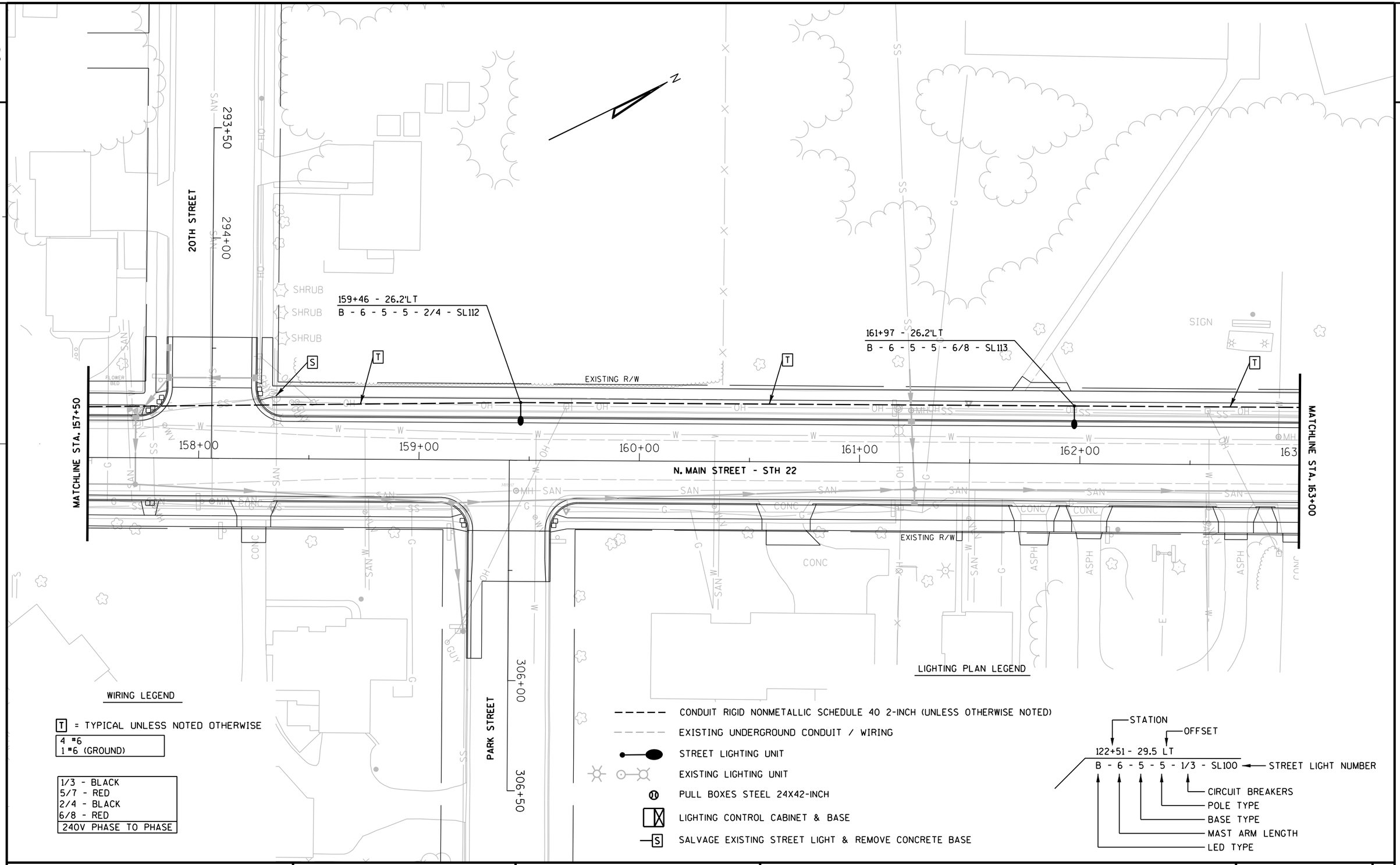
[T] = TYPICAL UNLESS NOTED OTHERWISE

4 #6
1 #6 (GROUND)

1/3 - BLACK
5/7 - RED
2/4 - BLACK
6/8 - RED
240V PHASE TO PHASE

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	LIGHTING PLANS	SHEET 69	E

2



WIRING LEGEND

[T] = TYPICAL UNLESS NOTED OTHERWISE

4 #6
1 #6 (GROUND)

1/3 - BLACK
5/7 - RED
2/4 - BLACK
6/8 - RED
240V PHASE TO PHASE

LIGHTING PLAN LEGEND

- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (UNLESS OTHERWISE NOTED)
- EXISTING UNDERGROUND CONDUIT / WIRING
- STREET LIGHTING UNIT
- EXISTING LIGHTING UNIT
- PULL BOXES STEEL 24X42-INCH
- LIGHTING CONTROL CABINET & BASE
- [S] SALVAGE EXISTING STREET LIGHT & REMOVE CONCRETE BASE

STATION — OFFSET

122+51 - 29.5 LT

B - 6 - 5 - 5 - 1/3 - SL100 ← STREET LIGHT NUMBER

- CIRCUIT BREAKERS
- POLE TYPE
- BASE TYPE
- MAST ARM LENGTH
- LED TYPE

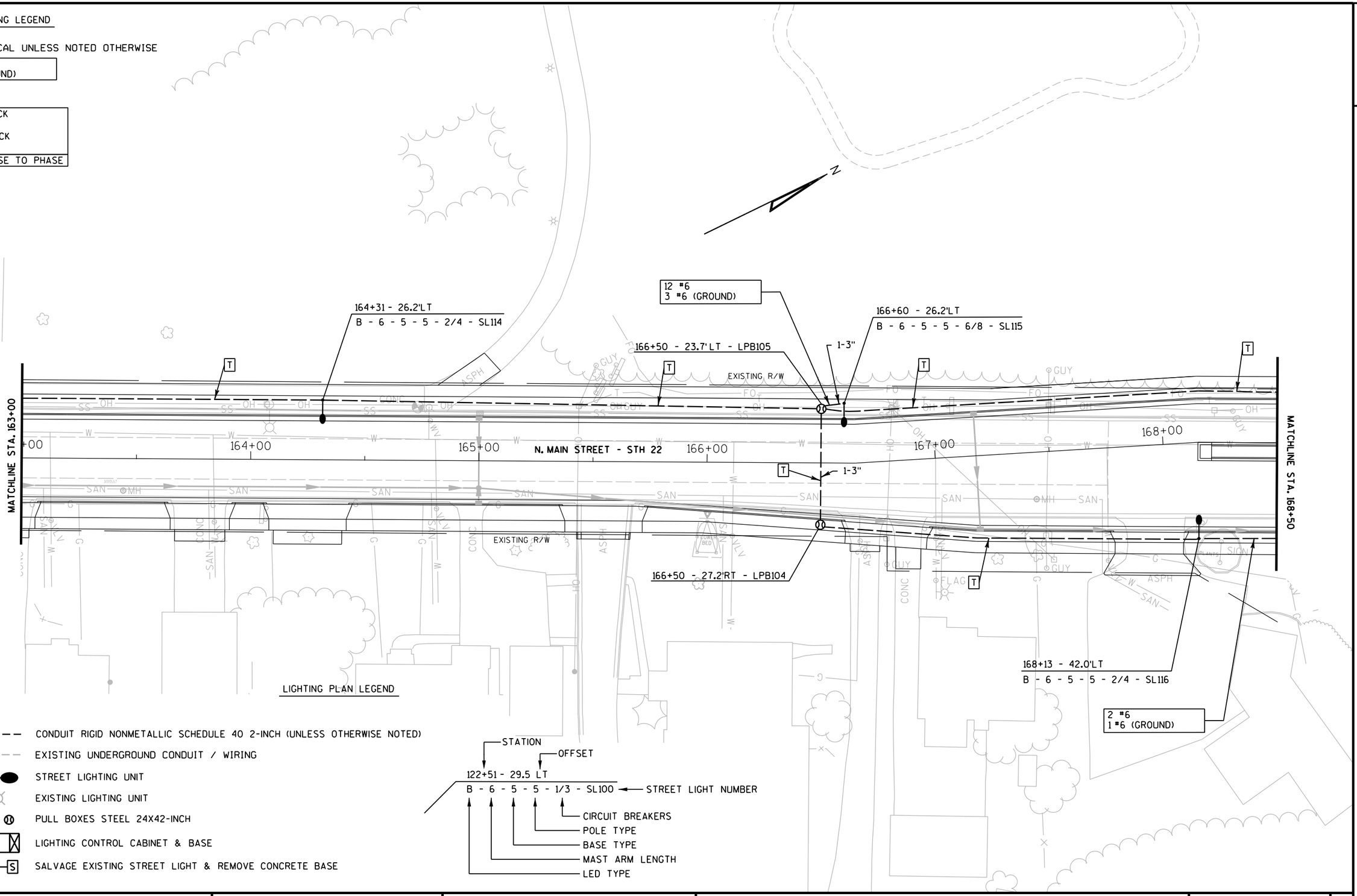
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	LIGHTING PLANS	SHEET 70	E

WIRING LEGEND

T = TYPICAL UNLESS NOTED OTHERWISE

4 #6
1 #6 (GROUND)

1/3 - BLACK
5/7 - RED
2/4 - BLACK
6/8 - RED
240V PHASE TO PHASE



LIGHTING PLAN LEGEND

- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (UNLESS OTHERWISE NOTED)
- EXISTING UNDERGROUND CONDUIT / WIRING
- STREET LIGHTING UNIT
- EXISTING LIGHTING UNIT
- PULL BOXES STEEL 24X42-INCH
- LIGHTING CONTROL CABINET & BASE
- S — SALVAGE EXISTING STREET LIGHT & REMOVE CONCRETE BASE

122+51 - 29.5 LT (STATION - OFFSET)
B - 6 - 5 - 5 - 1/3 - SL100 ← STREET LIGHT NUMBER

- CIRCUIT BREAKERS
- POLE TYPE
- BASE TYPE
- MAST ARM LENGTH
- LED TYPE

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	LIGHTING PLANS	SHEET E

FILE NAME : G:\CBS Squared\12001\DGN\PLAN SHEETS-78\023507_lp.dgn PLOT DATE : 7/21/2015 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

LIGHTING PLAN LEGEND

- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (UNLESS OTHERWISE NOTED)
- EXISTING UNDERGROUND CONDUIT / WIRING
- STREET LIGHTING UNIT
- EXISTING LIGHTING UNIT
- PULL BOXES STEEL 24X42-INCH
- LIGHTING CONTROL CABINET & BASE
- [S] SALVAGE EXISTING STREET LIGHT & REMOVE CONCRETE BASE

STATION / OFFSET
122+51 - 29.5 LT
B - 6 - 5 - 5 - 1/3 - SL100 ← STREET LIGHT NUMBER
- CIRCUIT BREAKERS
- POLE TYPE
- BASE TYPE
- MAST ARM LENGTH
- LED TYPE

WIRING LEGEND

[T] = TYPICAL UNLESS NOTED OTHERWISE

4 #6
1 #6 (GROUND)

1/3 - BLACK
5/7 - RED
2/4 - BLACK
6/8 - RED
240V PHASE TO PHASE

* INSTALL TYPE 2 CONCRETE BASE FOR FUTURE SIGNAL COMPATABILITY

2 #6
1 #6 (GROUND)
171+56 - 30.4'LT
B - 6 - 5 - 5 - 2/4 - SL121

MATCHLINE STA. 172+00

170+60 - 34.0'LT - LPB111

8 #6
2 #6 (GROUND)

170+23 - 53.4'LT - LPB110

170+17 - 52.0'LT
*B - 6 - 2 - 5 - 2/4 - SL119

N. MAIN STREET - STH 22

EXISTING R/W

170+60 - 9.0'RT - LPB112

170+56 - 9.0'RT
*B - 6 - 2 - 5 - 6/8 - 2/4 - SL120

1-3"

12 #6
3 #6 (GROUND)

PULL WIRE ONLY

170+64 - 53.4'RT - LPB113

W. GREEN TREE ROAD

313+00 314+00 315+00 316+00 317+00 318+00

E. GREEN TREE ROAD

8 #6
2 #6 (GROUND)

169+07 - 38.0'LT - LPB106

8 #6
2 #6 (GROUND)

169+15 - 4.0'RT
*B - 6 - 2 - 5 - 6/8 - 2/4 - SL117

169+07 - 4.0'RT - LPB107

169+55 - 67.9'RT
*B - 6 - 2 - 5 - 2/4 - SL118

2 #6
1 #6 (GROUND)

169+47 - 66.9'RT - LPB109

2 #6
1 #6 (GROUND)

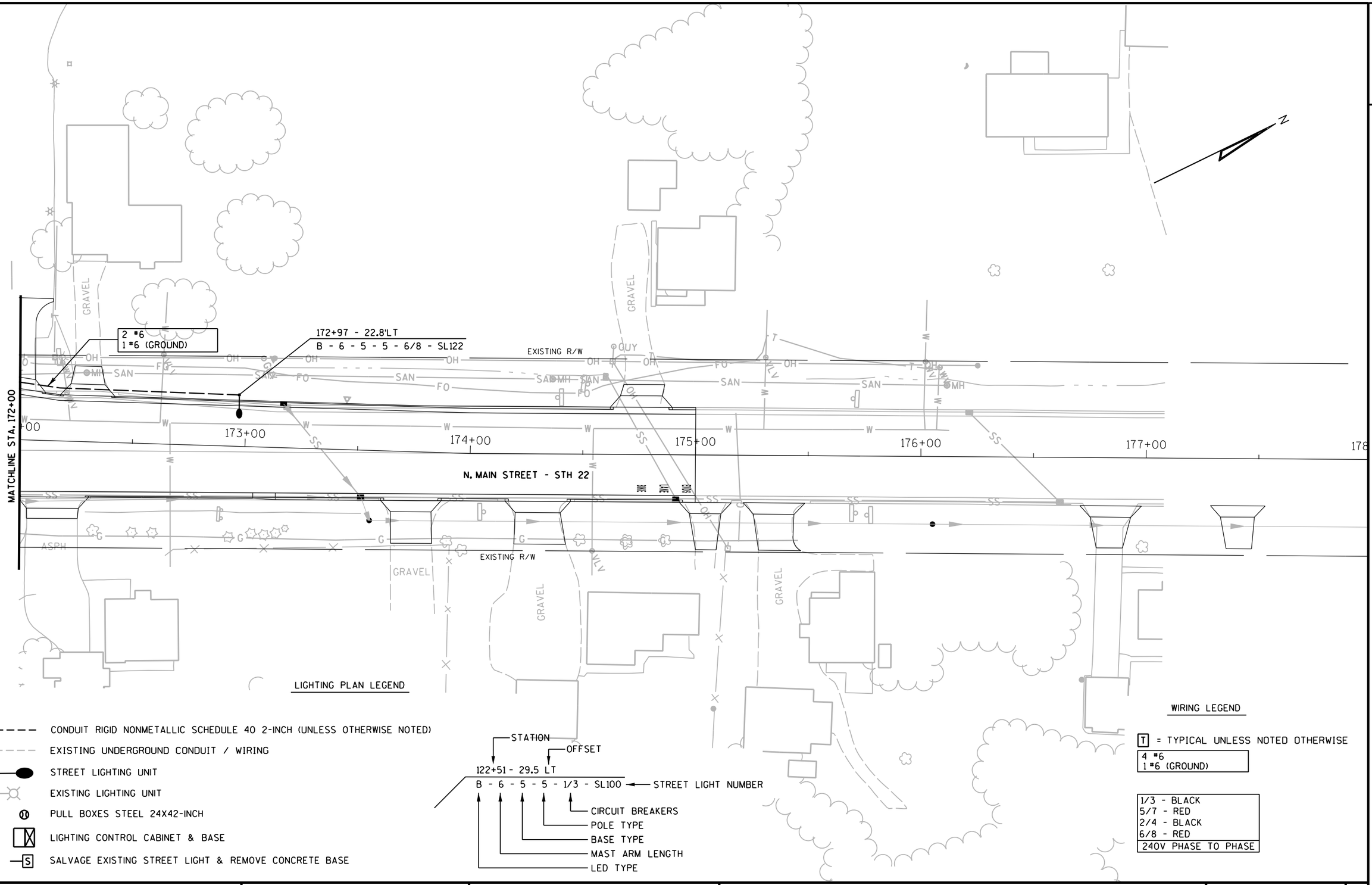
169+07 - 43.4'RT - LPB108

2 #6
1 #6 (GROUND)

MATCHLINE STA. 168+50

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	LIGHTING PLANS	SHEET 72	E

2



LIGHTING PLAN LEGEND

- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (UNLESS OTHERWISE NOTED)
- EXISTING UNDERGROUND CONDUIT / WIRING
- STREET LIGHTING UNIT
- EXISTING LIGHTING UNIT
- PULL BOXES STEEL 24X42-INCH
- LIGHTING CONTROL CABINET & BASE
- [S] SALVAGE EXISTING STREET LIGHT & REMOVE CONCRETE BASE

STATION — OFFSET

122+51 - 29.5 LT

B - 6 - 5 - 5 - 1/3 - SL100 ← STREET LIGHT NUMBER

- CIRCUIT BREAKERS
- POLE TYPE
- BASE TYPE
- MAST ARM LENGTH
- LED TYPE

WIRING LEGEND

[T] = TYPICAL UNLESS NOTED OTHERWISE

4 #6
1 #6 (GROUND)

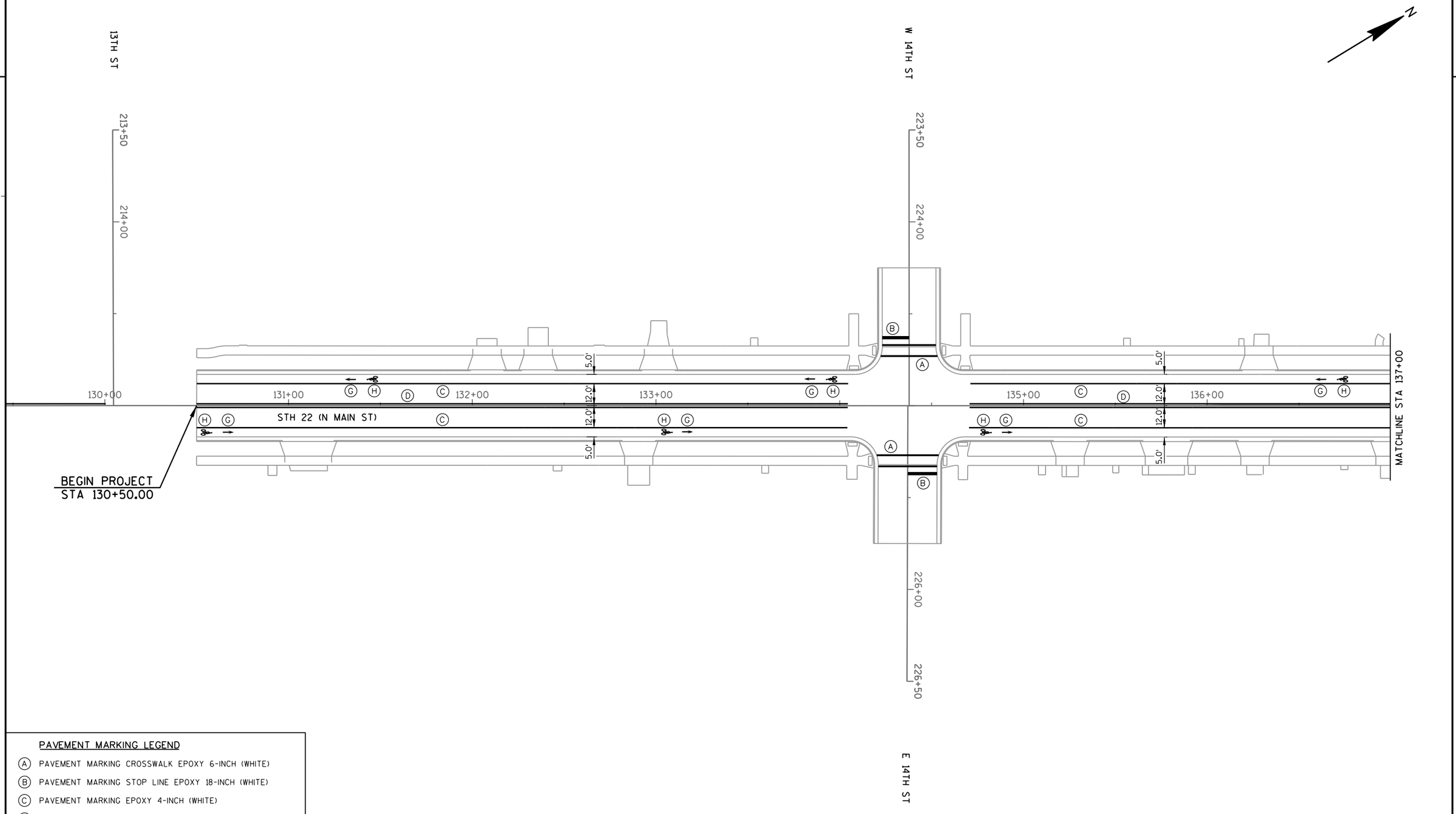
1/3 - BLACK
5/7 - RED
2/4 - BLACK
6/8 - RED
240V PHASE TO PHASE

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	LIGHTING PLANS	SHEET	E

FILE NAME : G:\CBS Squared\12001\DGN\PLAN SHEETS-78\023509_lp.dgn PLOT DATE : 7/21/2015 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

2

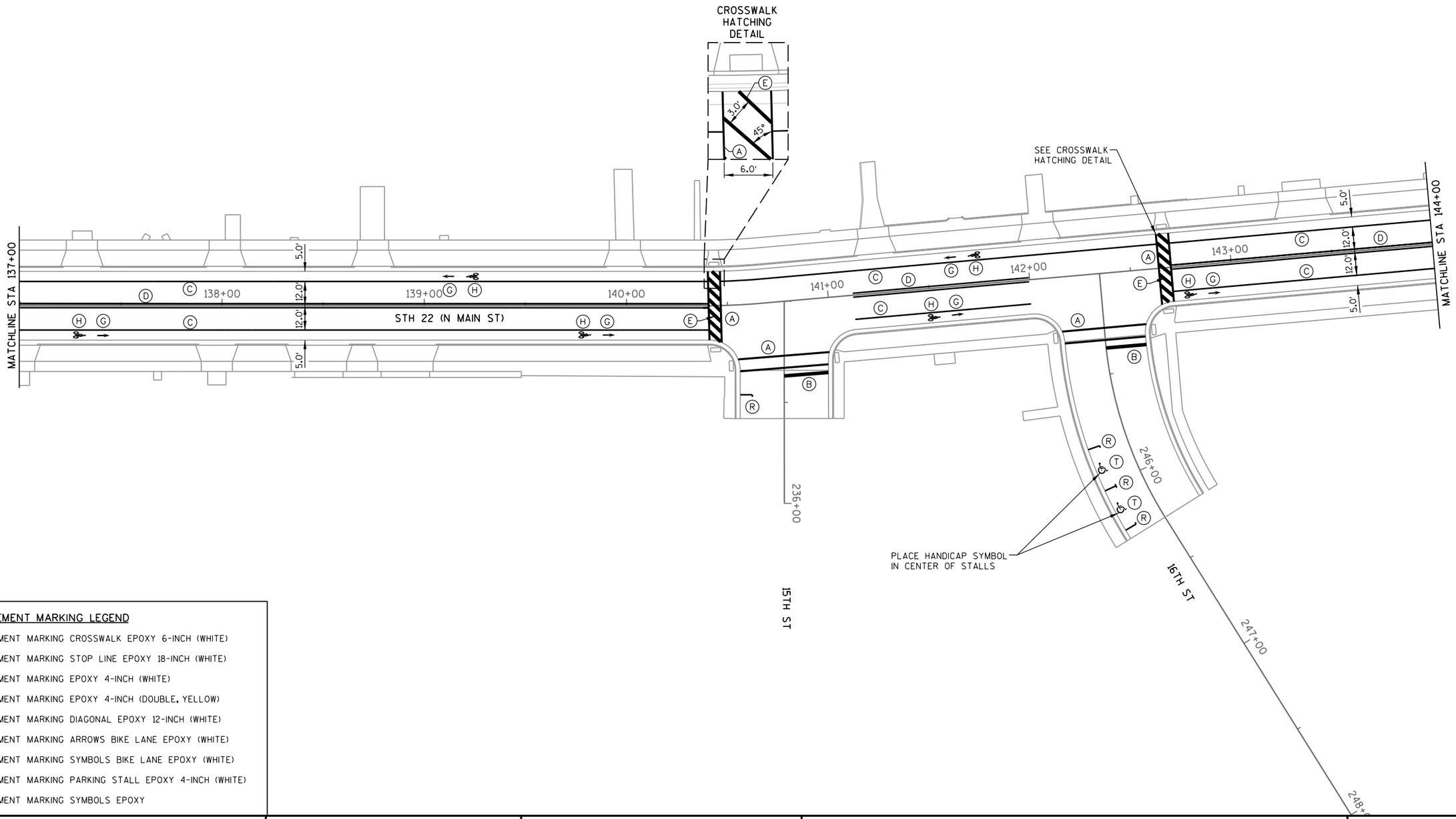


PAVEMENT MARKING LEGEND

- (A) PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
- (B) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (C) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (D) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- (G) PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- (H) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PAVEMENT MARKING	SHEET 74	E

2

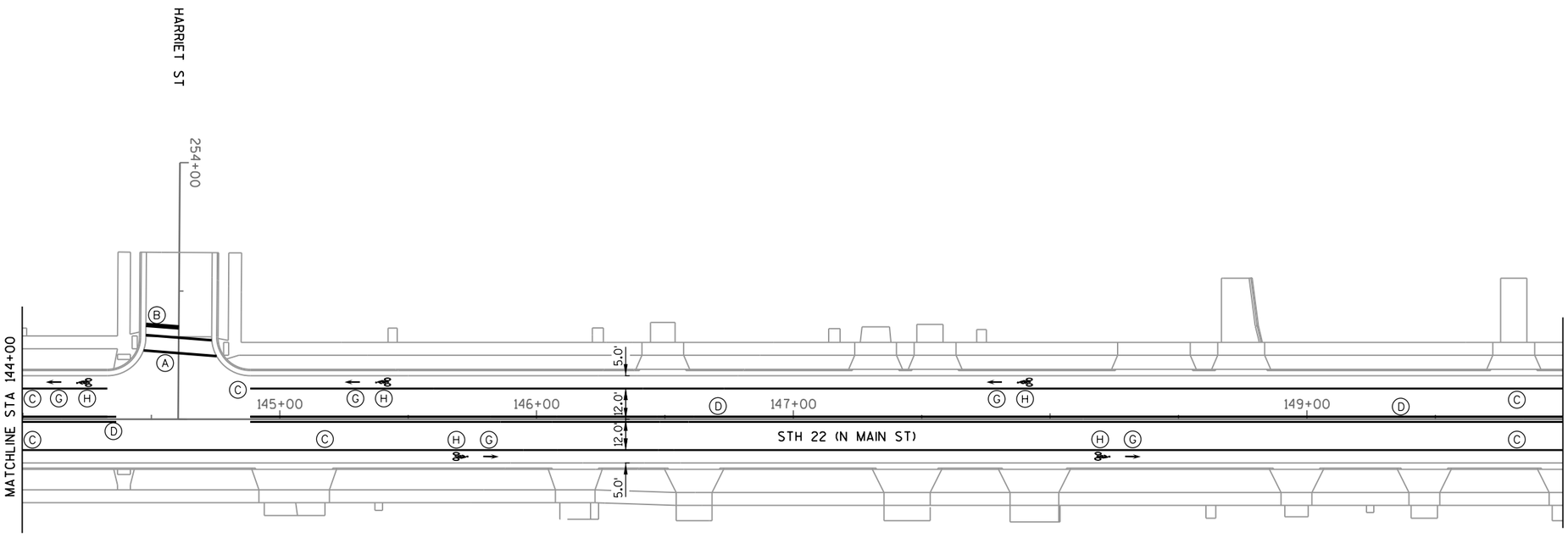


PAVEMENT MARKING LEGEND

- (A) PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
- (B) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (C) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (D) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- (E) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
- (G) PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- (H) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)
- (R) PAVEMENT MARKING PARKING STALL EPOXY 4-INCH (WHITE)
- (T) PAVEMENT MARKING SYMBOLS EPOXY

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PAVEMENT MARKING	SHEET 75	E

2

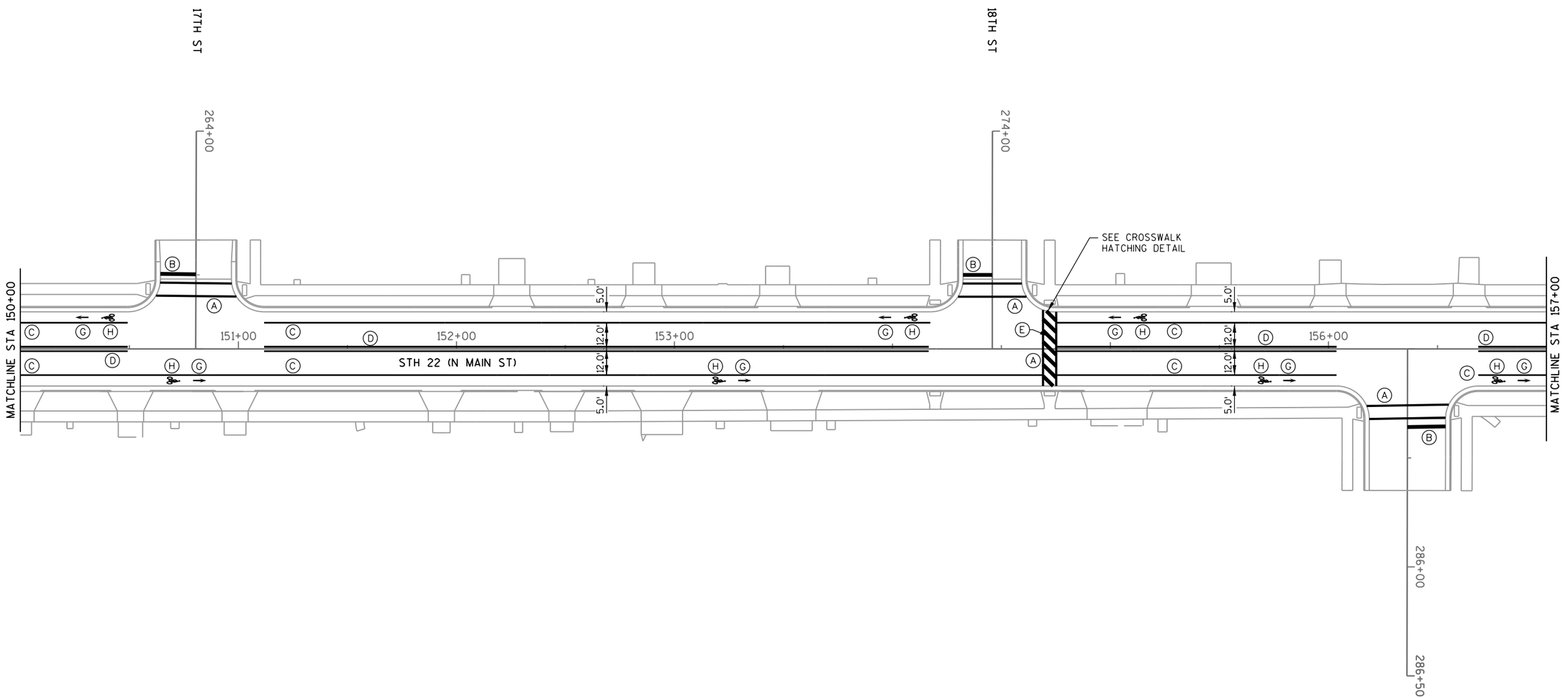


PAVEMENT MARKING LEGEND

- (A) PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
- (B) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (C) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (D) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- (G) PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- (H) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PAVEMENT MARKING	SHEET 76	E

2

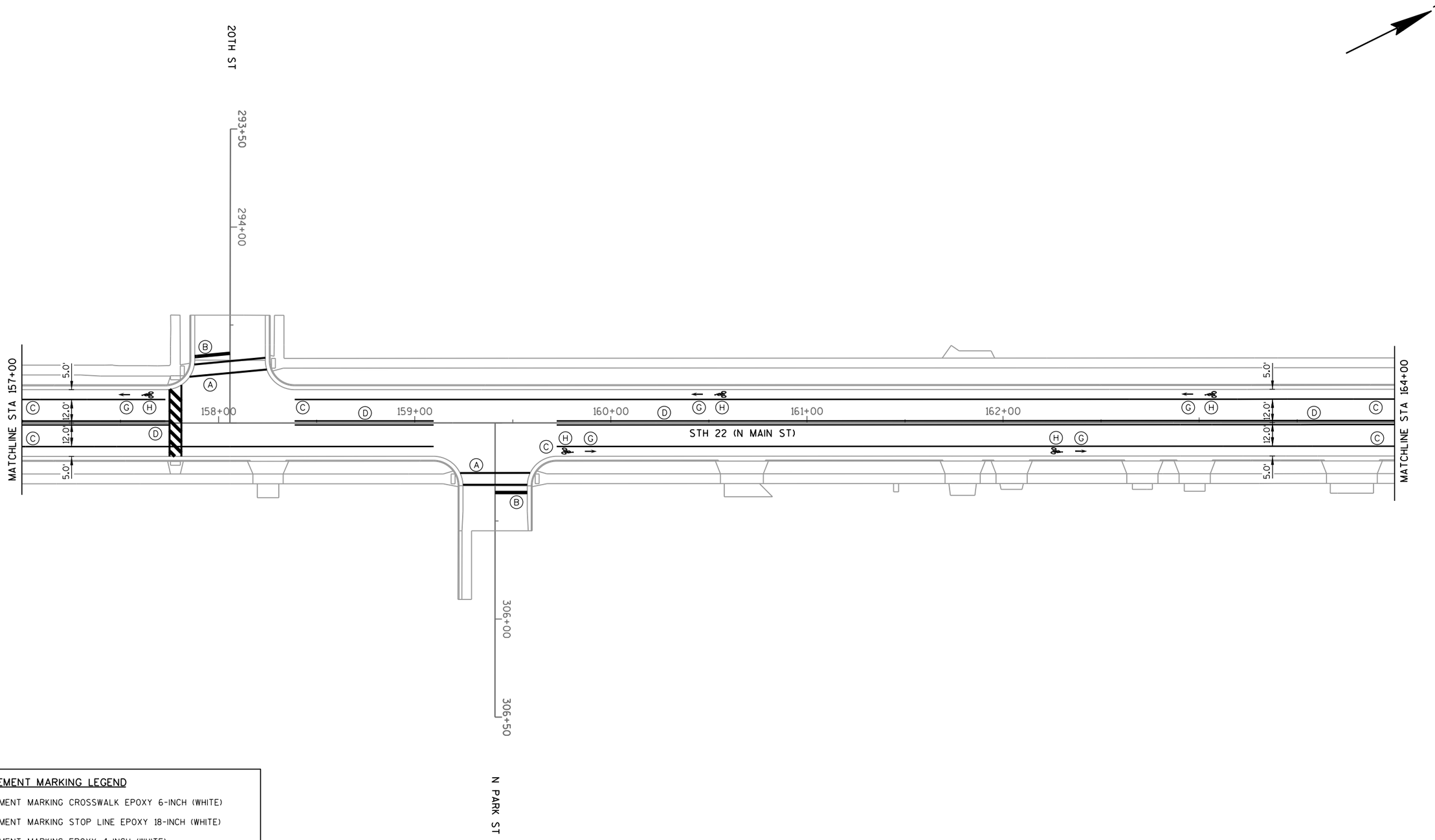


PAVEMENT MARKING LEGEND

- (A) PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
- (B) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (C) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (D) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- (E) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
- (G) PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- (H) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PAVEMENT MARKING	SHEET 77	E

2

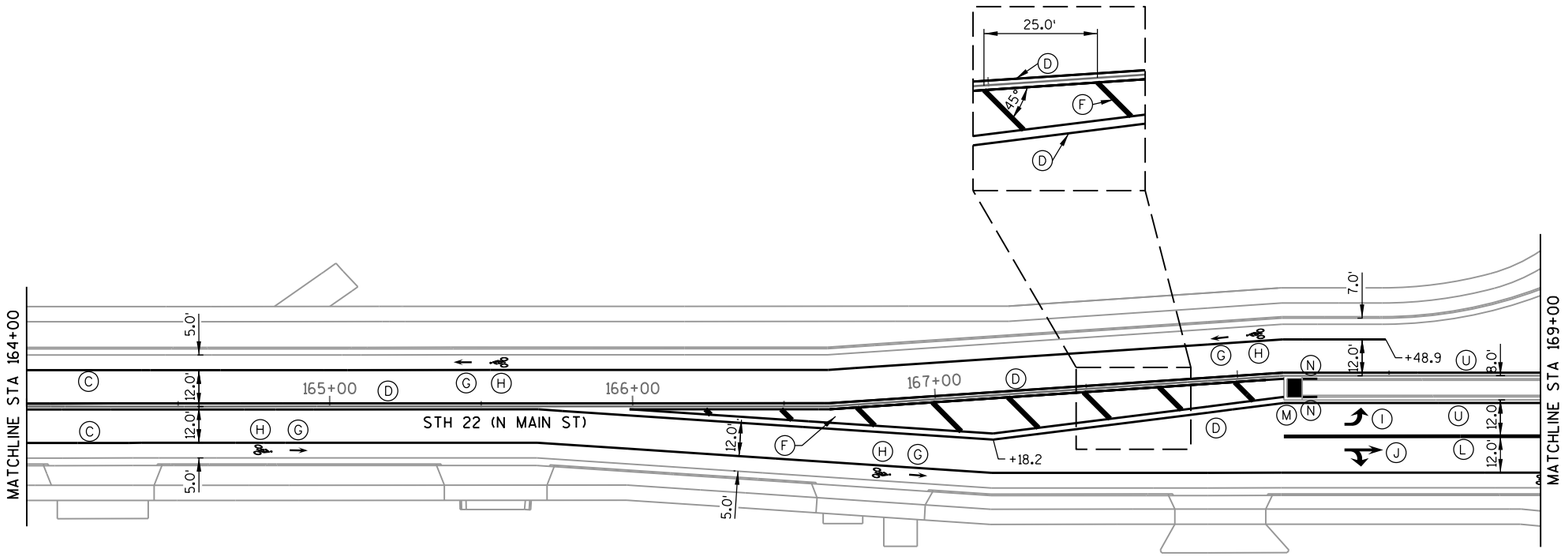


PAVEMENT MARKING LEGEND

- (A) PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
- (B) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (C) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (D) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- (G) PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- (H) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PAVEMENT MARKING	SHEET 78	E

2

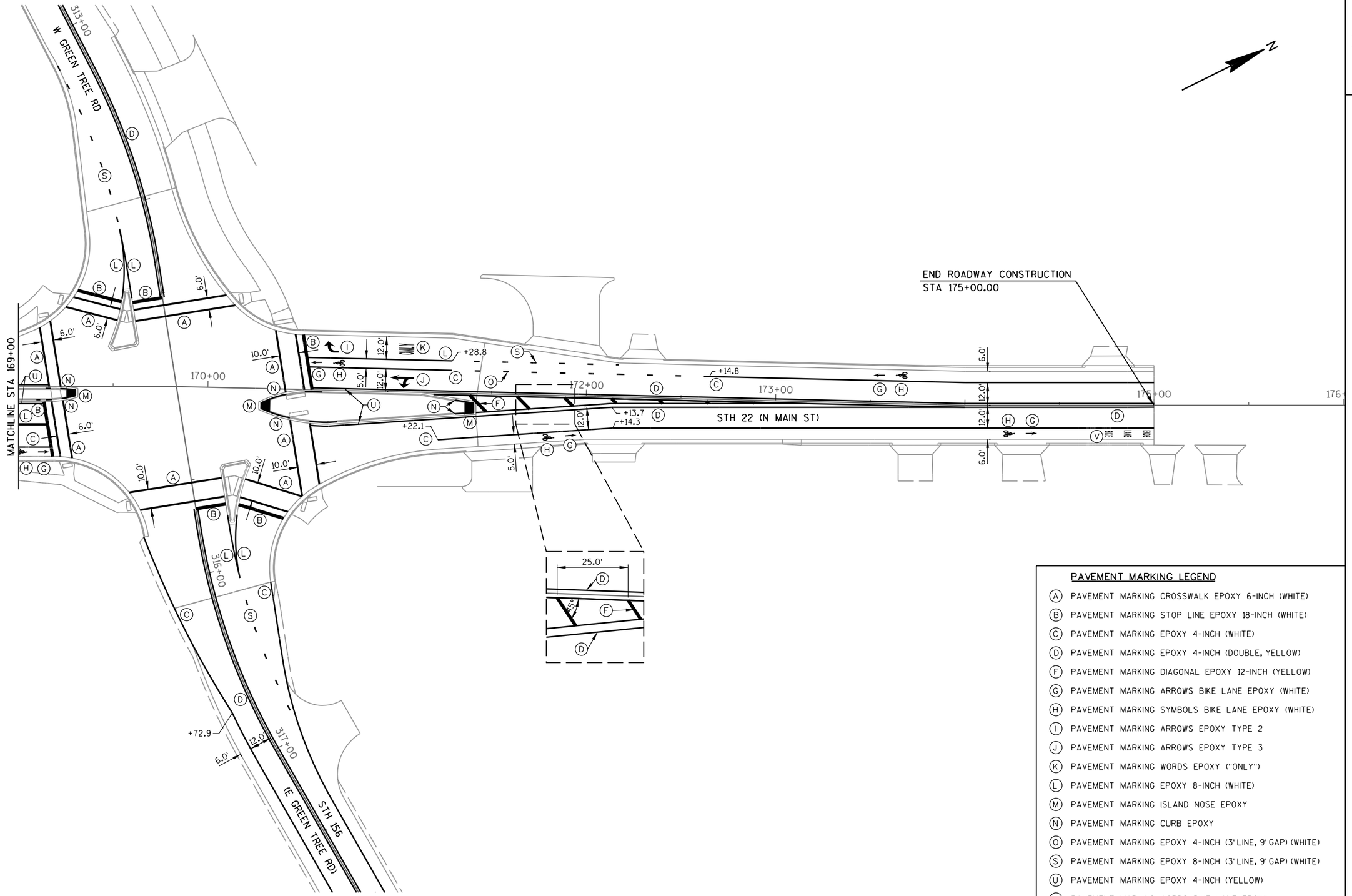


PAVEMENT MARKING LEGEND

- (C) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (D) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- (F) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (G) PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- (H) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)
- (I) PAVEMENT MARKING ARROWS EPOXY TYPE 2
- (J) PAVEMENT MARKING ARROWS EPOXY TYPE 3
- (L) PAVEMENT MARKING EPOXY 8-INCH (WHITE)
- (M) PAVEMENT MARKING ISLAND NOSE EPOXY
- (N) PAVEMENT MARKING CURB EPOXY
- (U) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PAVEMENT MARKING	SHEET 79	E

2



PAVEMENT MARKING LEGEND

- (A) PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
- (B) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (C) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (D) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- (F) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (G) PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- (H) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)
- (I) PAVEMENT MARKING ARROWS EPOXY TYPE 2
- (J) PAVEMENT MARKING ARROWS EPOXY TYPE 3
- (K) PAVEMENT MARKING WORDS EPOXY ("ONLY")
- (L) PAVEMENT MARKING EPOXY 8-INCH (WHITE)
- (M) PAVEMENT MARKING ISLAND NOSE EPOXY
- (N) PAVEMENT MARKING CURB EPOXY
- (O) PAVEMENT MARKING EPOXY 4-INCH (3' LINE, 9' GAP) (WHITE)
- (S) PAVEMENT MARKING EPOXY 8-INCH (3' LINE, 9' GAP) (WHITE)
- (U) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- (V) PAVEMENT MARKING WORDS BIKE LANE EPOXY

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PAVEMENT MARKING	SHEET 80	E

2

N

311+43
312+00
313+00
W GREEN TREE RD
16.0'
16.0'
BEGIN CONSTRUCTION
STA 311+90.00
6.0'
6.0'
6.0'
6.0'
169+00
170+00
172+00
STH 22 (N MAIN ST)
10.0'
10.0'
10.0'
10.0'
316+00
317+00
STH 156
(E GREEN TREE RD)
+72.9
12.0'
12.0'
318+00
319+00
END CONSTRUCTION
STA 318+00.00

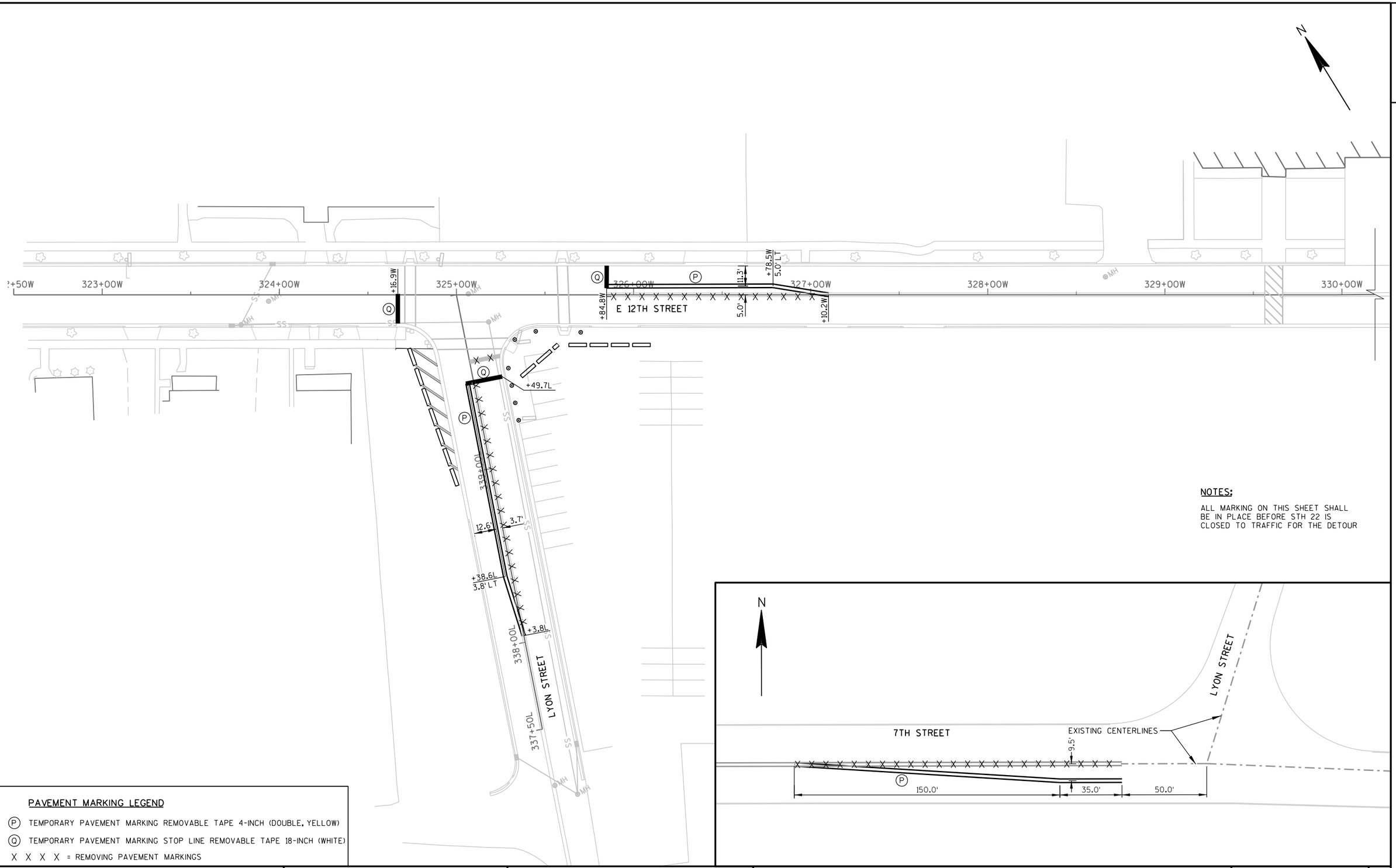
PAVEMENT MARKING LEGEND

- (A) PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
- (B) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (C) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (D) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- (F) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
- (G) PAVEMENT MARKING ARROWS BIKE LANE EPOXY (WHITE)
- (H) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY (WHITE)
- (I) PAVEMENT MARKING ARROWS EPOXY TYPE 2
- (J) PAVEMENT MARKING ARROWS EPOXY TYPE 3
- (K) PAVEMENT MARKING WORDS EPOXY ("ONLY")
- (L) PAVEMENT MARKING EPOXY 8-INCH (WHITE)
- (M) PAVEMENT MARKING ISLAND NOSE EPOXY
- (N) PAVEMENT MARKING CURB EPOXY
- (O) PAVEMENT MARKING EPOXY 4-INCH (3' LINE, 9' GAP) (WHITE)
- (S) PAVEMENT MARKING EPOXY 8-INCH (3' LINE, 9' GAP) (WHITE)

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PAVEMENT MARKING	SHEET 81	E

2

2



NOTES:

ALL MARKING ON THIS SHEET SHALL BE IN PLACE BEFORE STH 22 IS CLOSED TO TRAFFIC FOR THE DETOUR

PAVEMENT MARKING LEGEND

(P) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE, YELLOW)

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

X X X X = REMOVING PAVEMENT MARKINGS

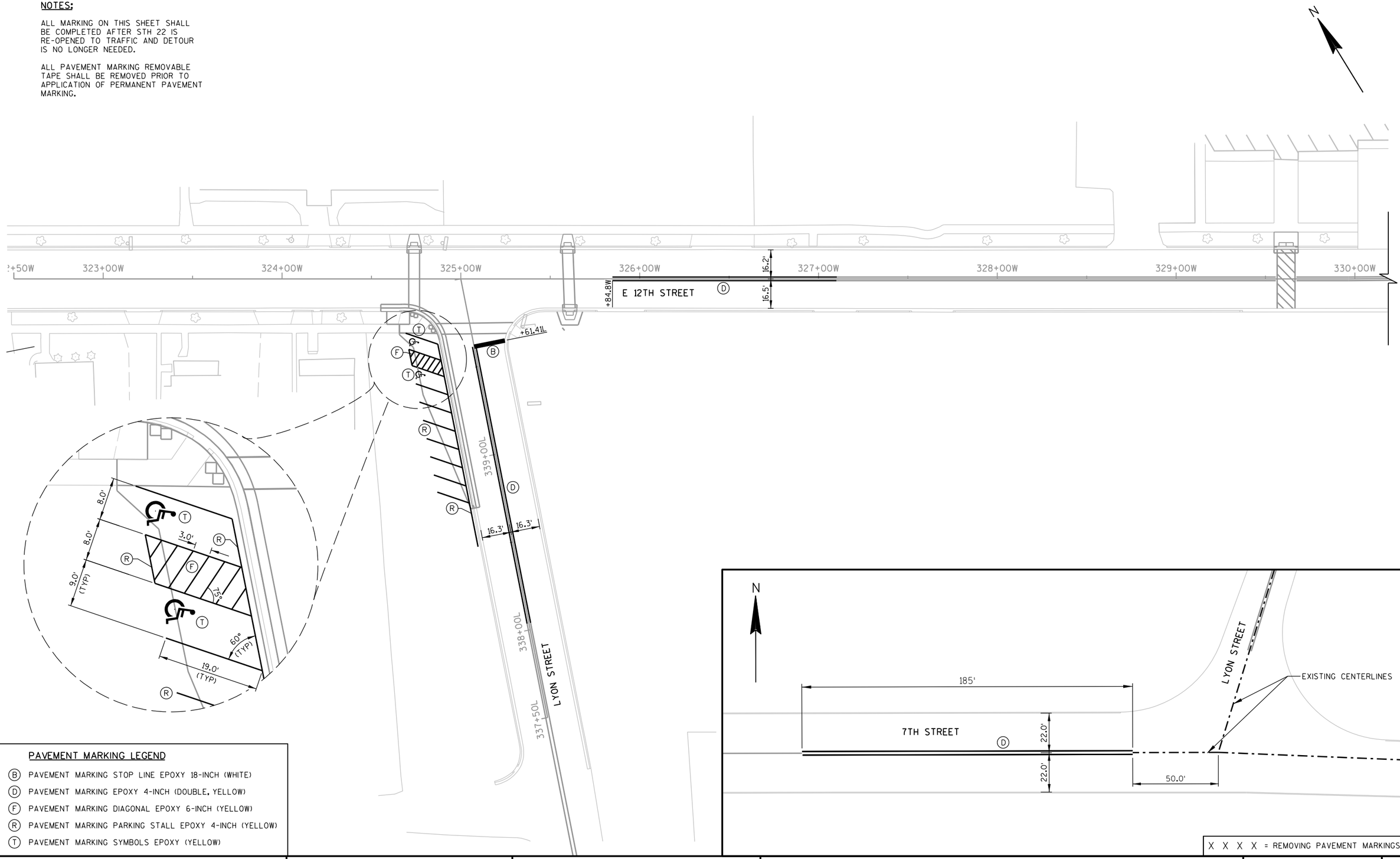
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PAVEMENT MARKING - 7TH ST, LYON ST & E 12TH ST	SHEET 82	E

2

NOTES:

ALL MARKING ON THIS SHEET SHALL BE COMPLETED AFTER STH 22 IS RE-OPENED TO TRAFFIC AND DETOUR IS NO LONGER NEEDED.

ALL PAVEMENT MARKING REMOVABLE TAPE SHALL BE REMOVED PRIOR TO APPLICATION OF PERMANENT PAVEMENT MARKING.

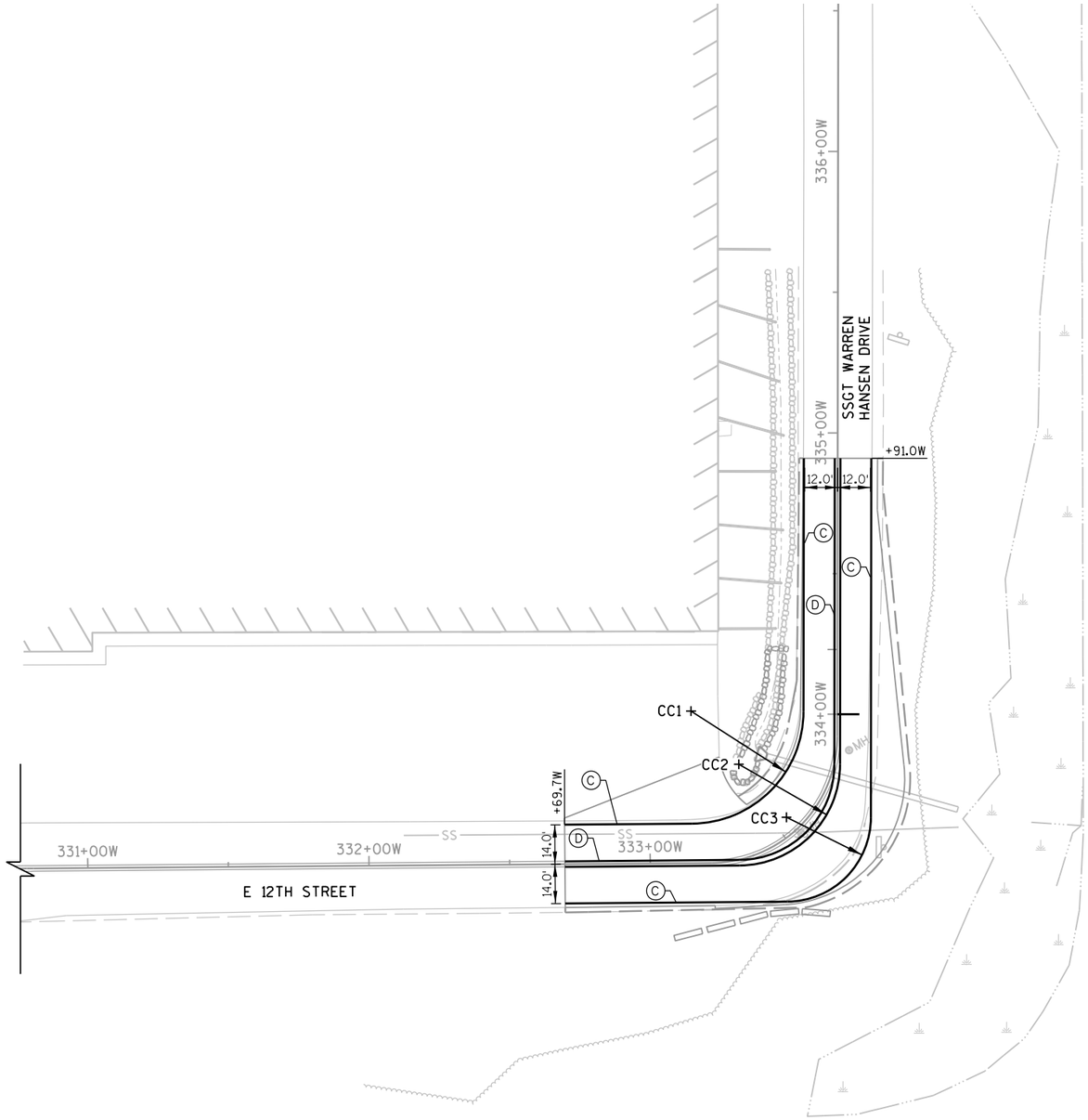


PAVEMENT MARKING LEGEND

- (B) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (D) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)
- (F) PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (R) PAVEMENT MARKING PARKING STALL EPOXY 4-INCH (YELLOW)
- (T) PAVEMENT MARKING SYMBOLS EPOXY (YELLOW)

X X X X = REMOVING PAVEMENT MARKINGS

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PAVEMENT MARKING - 7TH ST, LYON ST & E 12TH ST	SHEET 83	E



PAVEMENT MARKING LEGEND

(C) PAVEMENT MARKING EPOXY 4-INCH (WHITE)

(D) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE, YELLOW)

NOTES:

ALL PAVEMENT MARKING ON THIS SHEET SHALL BE COMPLETED AFTER STH 22 IS RE-OPENED TO TRAFFIC AND DETOUR IS NO LONGER NEEDED.

RADIUS POINT TABLE

POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	333+51.34W	56.3'LT	40.0'	Y= 437259.453 X= 623903.685
CC2	333+56.99W	30.9'LT	36.0'	Y= 437234.500 X= 623908.300
CC3	333+55.36W	5.6'LT	30.0'	Y= 437209.546 X= 623912.915

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PAVEMENT MARKING - E 12TH ST & SSGT WARREN HANSEN DR	SHEET 84	E

2

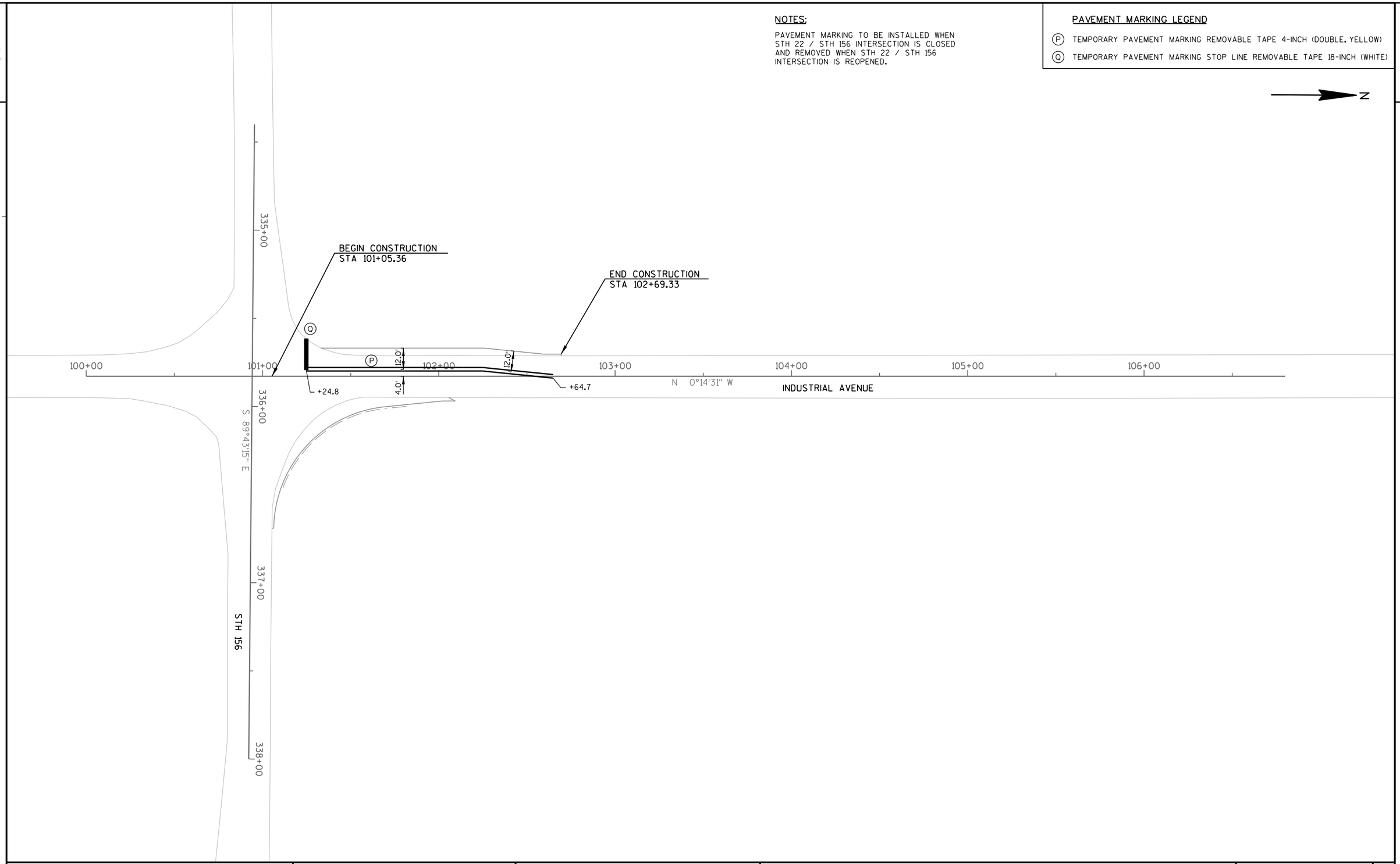
NOTES:

PAVEMENT MARKING TO BE INSTALLED WHEN STH 22 / STH 156 INTERSECTION IS CLOSED AND REMOVED WHEN STH 22 / STH 156 INTERSECTION IS REOPENED.

PAVEMENT MARKING LEGEND

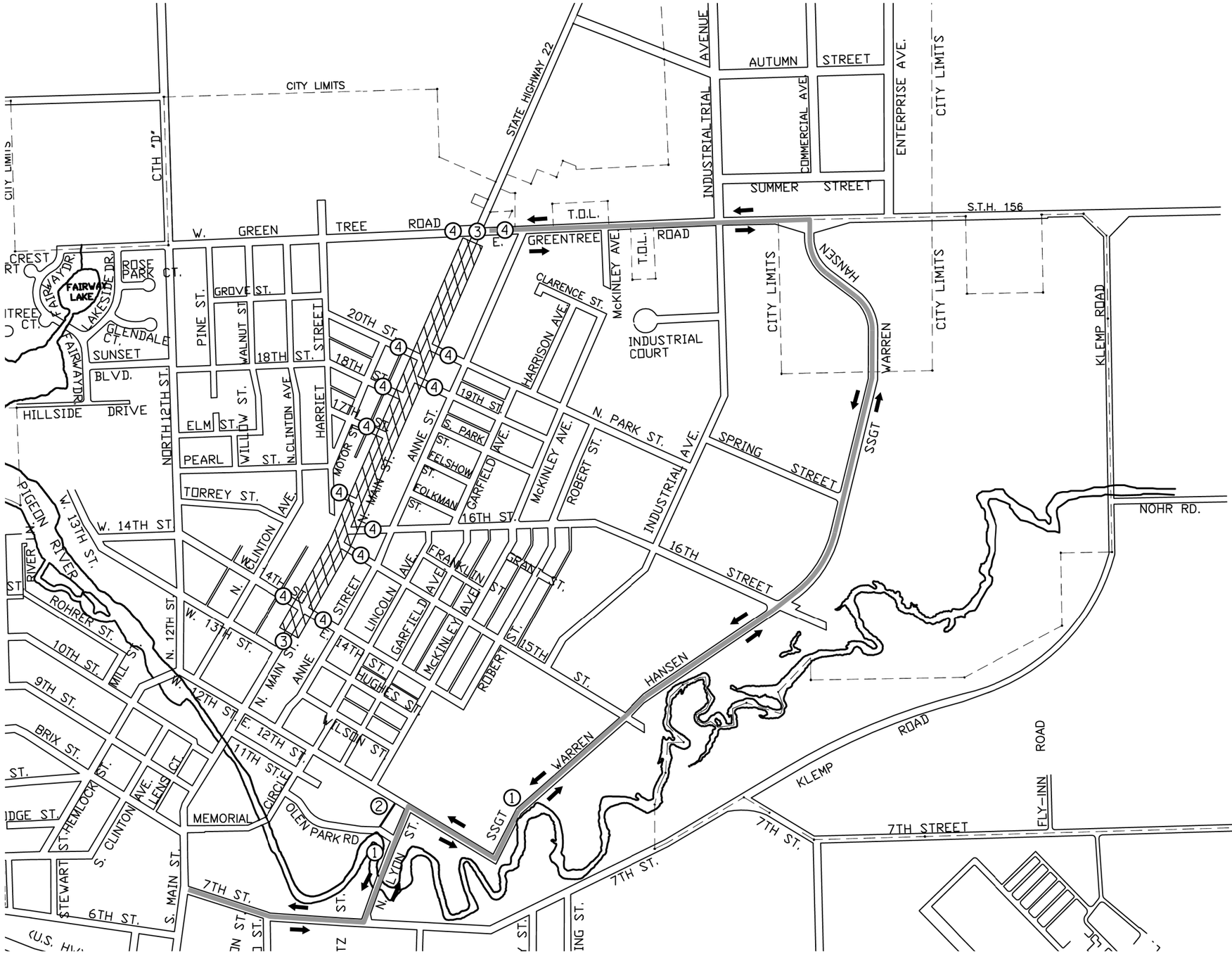
(P) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE, YELLOW)

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



PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PAVEMENT MARKING INDUSTRIAL AVENUE	SHEET 85	E

2



NOTES:

THE DETOUR ROUTE SHOWN ON THIS SHEET SHALL BE IN PLACE WHILE GREEN TREE ROAD AND STH 156 INTERSECTION IS OPEN TO TRAFFIC.

ALL SIGNS SHALL BE FURNISHED BY THE CONTRACTOR

IF THE CLEARING AND GRUBBING OPERATION TAKES PLACE WHILE STH 22 IS OPEN TO TRAFFIC, INSTALL TRAFFIC CONTROL IN ACCORDANCE WITH SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY".

REMOVED SIDEWALKS SHALL BE BARRICADED AND SIGNED IN ACCORDANCE WITH SDD "TRAFFIC CONTROL, SIDEWALK CLOSURE".

TYPICAL SIGN SPACING, SIGN CODES, SIGN SIZES AND ADDITIONAL GENERAL NOTES SHALL BE IN ACCORDANCE WITH SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" AND "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".

ALL IMPROVEMENTS TO THE LYON STREET & E. 12TH STREET INTERSECTION AND THE E. 12TH STREET & SSGT WARREN HANSEN DRIVE INSTERSECTION SHALL BE COMPLETED WHILE THE INTERSECTIONS REMAIN OPEN TO THROUGH TRAFFIC UTILIZING FLAGGERS IN ACCORDANCE WITH SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)".

(1) ADVANCE SIGNING ALONG LYON STREET AND SSGT WARREN HANSEN DRIVE FOR THE IMPROVEMENTS AT THE INTERSECTIONS OF LYON STREET/ E. 12TH STREET AND E. 12TH STREET/ SSGT WARREN HANSEN DRIVE SHALL BE IN ACCORDANCE WITH SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD TO TRAFFIC".

(2) ADVANCE SIGNING ALONG THE WEST LEG OF E. 12TH STREET FOR THE IMPROVEMENTS AT THE INTERSECTIONS OF LYON STREET/ E. 12TH STREET AND E. 12TH STREET/ SSGT WARREN HANSEN DRIVE SHALL BE IN ACCORDANCE WITH THE "TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL" AS SHOWN IN SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD TO TRAFFIC".

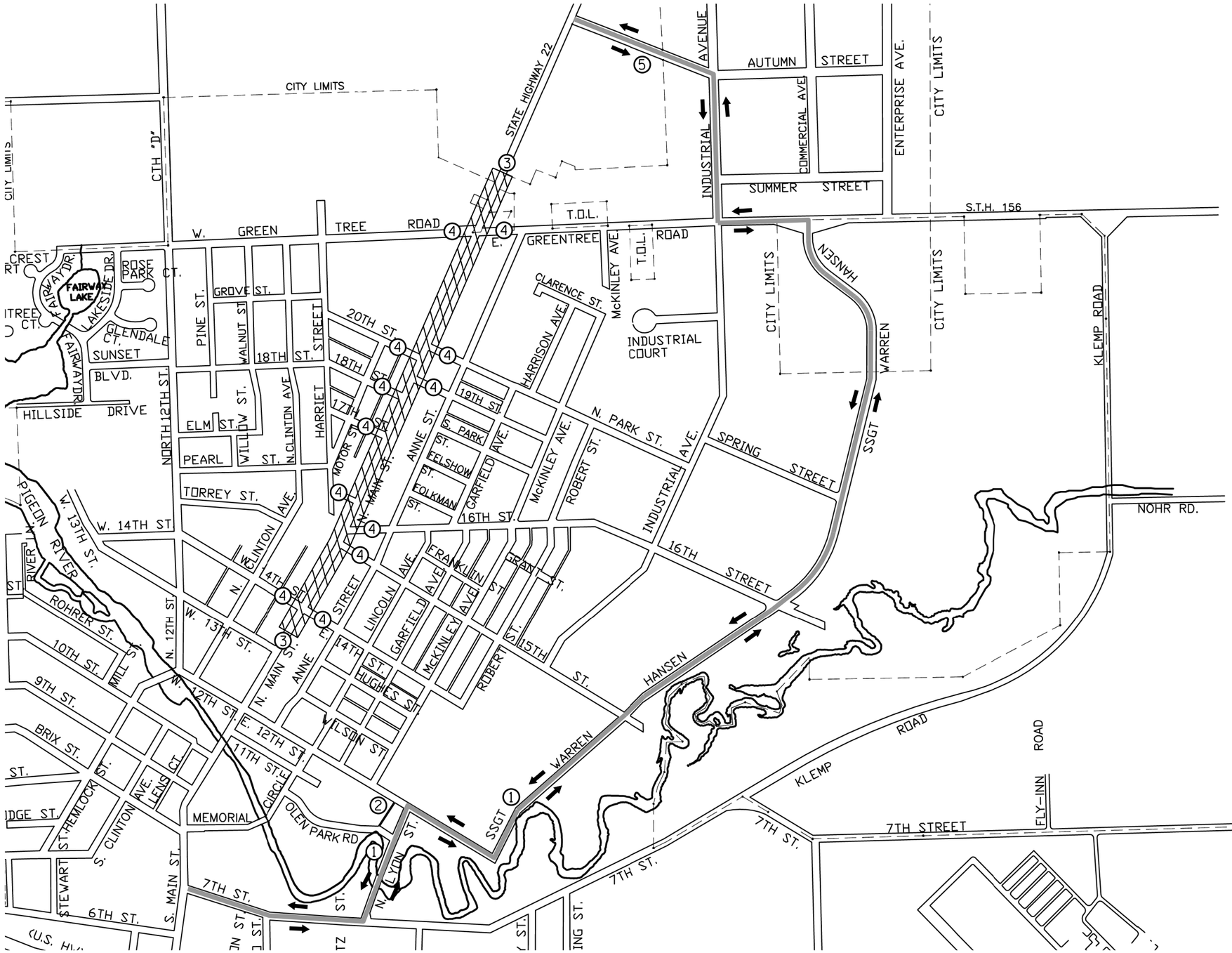
(3) STH 22 SHALL BE CLOSED TO TRAFFIC AT THE PROJECT BEGIN AND END LOCATIONS AS SHOWN IN THE 6250-01-78 PLAN. SIGNING AND DEVICES SHALL BE IN ACCORDANCE WITH SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

(4) SEE TRAFFIC CONTROL DETAIL SHEETS FOR SIDEROAD INTERSECTION TRAFFIC CONTROL.

LEGEND

- EXISTING SIGN ON EXISTING POST
- TRAFFIC CONTROL DETOUR SIGN ON WOOD POST
- TRAFFIC CONTROL DETOUR SIGN ON TWO WOOD POSTS
- DIRECTION OF TRAFFIC
- TYPE 3 BARRICADE
- TYPE 3 BARRICADE WITH SIGN
- WORK ZONE (CLOSED TO TRAFFIC)
- DETOUR ROUTE
- COVERING SIGNS TYPE II

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TRAFFIC CONTROL & DETOUR SIGNING	SHEET 86	E



NOTES:

THE DETOUR ROUTE SHOWN ON THIS SHEET SHALL BE IN PLACE WHILE THE GREEN TREE ROAD AND STH 156 INTERSECTION IS CLOSED TO TRAFFIC.

ALL SIGNS SHALL BE FURNISHED BY THE CONTRACTOR

IF THE CLEARING AND GRUBBING OPERATION TAKES PLACE WHILE STH 22 IS OPEN TO TRAFFIC, INSTALL TRAFFIC CONTROL IN ACCORDANCE WITH SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY".

REMOVED SIDEWALKS SHALL BE BARRICADED AND SIGNED IN ACCORDANCE WITH SDD "TRAFFIC CONTROL, SIDEWALK CLOSURE".

TYPICAL SIGN SPACING, SIGN CODES, SIGN SIZES AND ADDITIONAL GENERAL NOTES SHALL BE IN ACCORDANCE WITH SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" AND "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".

ALL IMPROVEMENTS TO THE LYON STREET & E. 12TH STREET INTERSECTION AND THE E. 12TH STREET & SSGT WARREN HANSEN DRIVE INSTERSECTION SHALL BE COMPLETED WHILE THE INTERSECTIONS REMAIN OPEN TO THROUGH TRAFFIC UTILIZING FLAGGERS IN ACCORDANCE WITH SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)".

(1) ADVANCE SIGNING ALONG LYON STREET AND SSGT WARREN HANSEN DRIVE FOR THE IMPROVEMENTS AT THE INTERSECTIONS OF LYON STREET/ E. 12TH STREET AND E. 12TH STREET/ SSGT WARREN HANSEN DRIVE SHALL BE IN ACCORDANCE WITH SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD TO TRAFFIC".

(2) ADVANCE SIGNING ALONG THE WEST LEG OF E. 12TH STREET FOR THE IMPROVEMENTS AT THE INTERSECTIONS OF LYON STREET/ E. 12TH STREET AND E. 12TH STREET/ SSGT WARREN HANSEN DRIVE SHALL BE IN ACCORDANCE WITH THE "TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL" AS SHOWN IN SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD TO TRAFFIC".

(3) STH 22 SHALL BE CLOSED TO TRAFFIC AT THE PROJECT BEGIN AND END LOCATIONS AS SHOWN IN THE 6250-01-78 PLAN. SIGNING AND DEVICES SHALL BE IN ACCORDANCE WITH SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

(4) SEE TRAFFIC CONTROL DETAIL SHEETS FOR SIDEROAD INTERSECTION TRAFFIC CONTROL.

(5) DETOUR SHALL FOLLOW INDUSTIRAL AVE AND AUTUMN STREET WHEN INTERSECTION OF STH 22 AND STH 156 IS CLOSED.

LEGEND

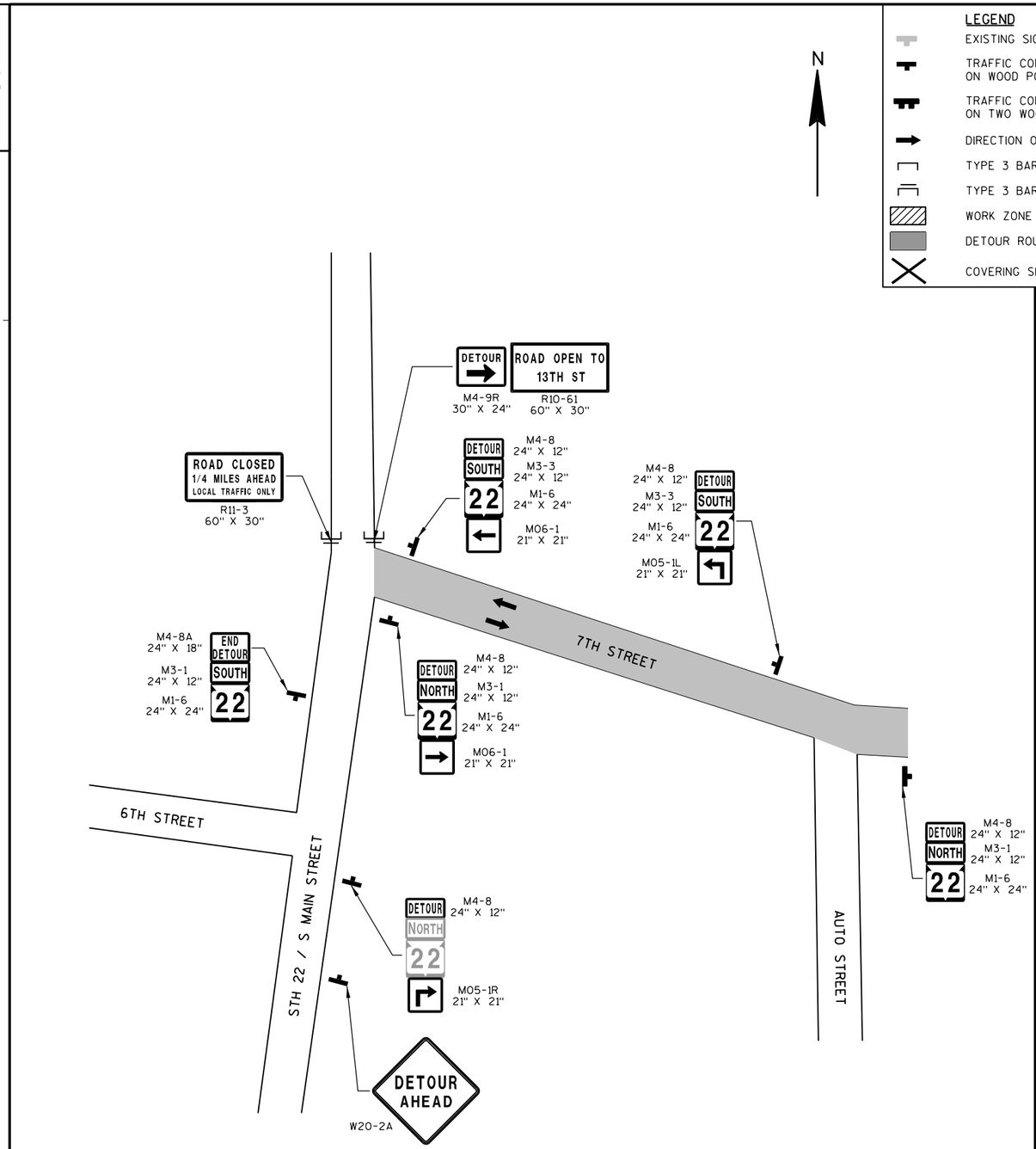
- EXISTING SIGN ON EXISTING POST
- TRAFFIC CONTROL DETOUR SIGN ON WOOD POST
- TRAFFIC CONTROL DETOUR SIGN ON TWO WOOD POSTS
- DIRECTION OF TRAFFIC
- TYPE 3 BARRICADE
- TYPE 3 BARRICADE WITH SIGN
- WORK ZONE (CLOSED TO TRAFFIC)
- DETOUR ROUTE
- COVERING SIGNS TYPE II

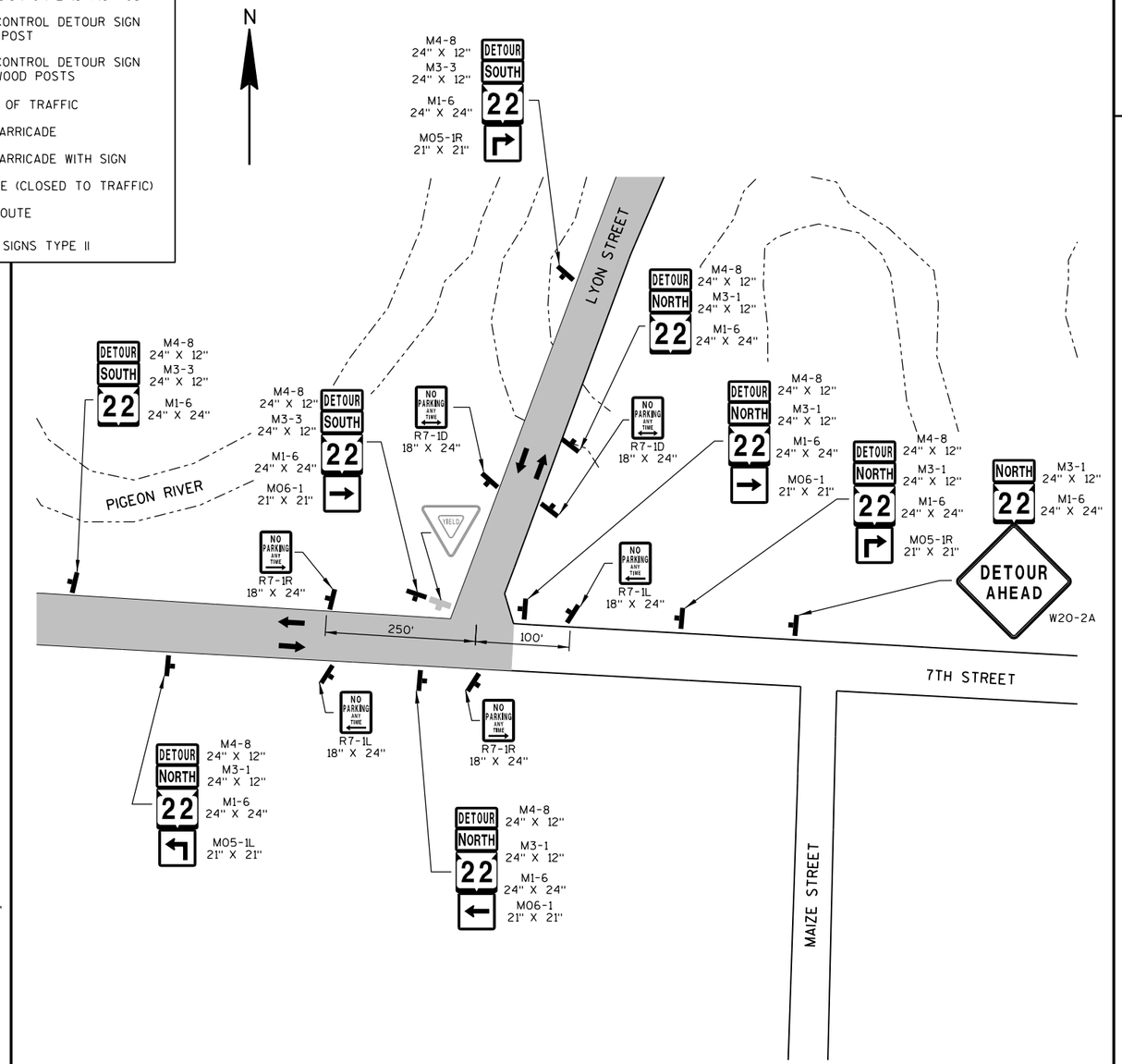
N

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TRAFFIC CONTROL & DETOUR SIGNING	SHEET 87	E

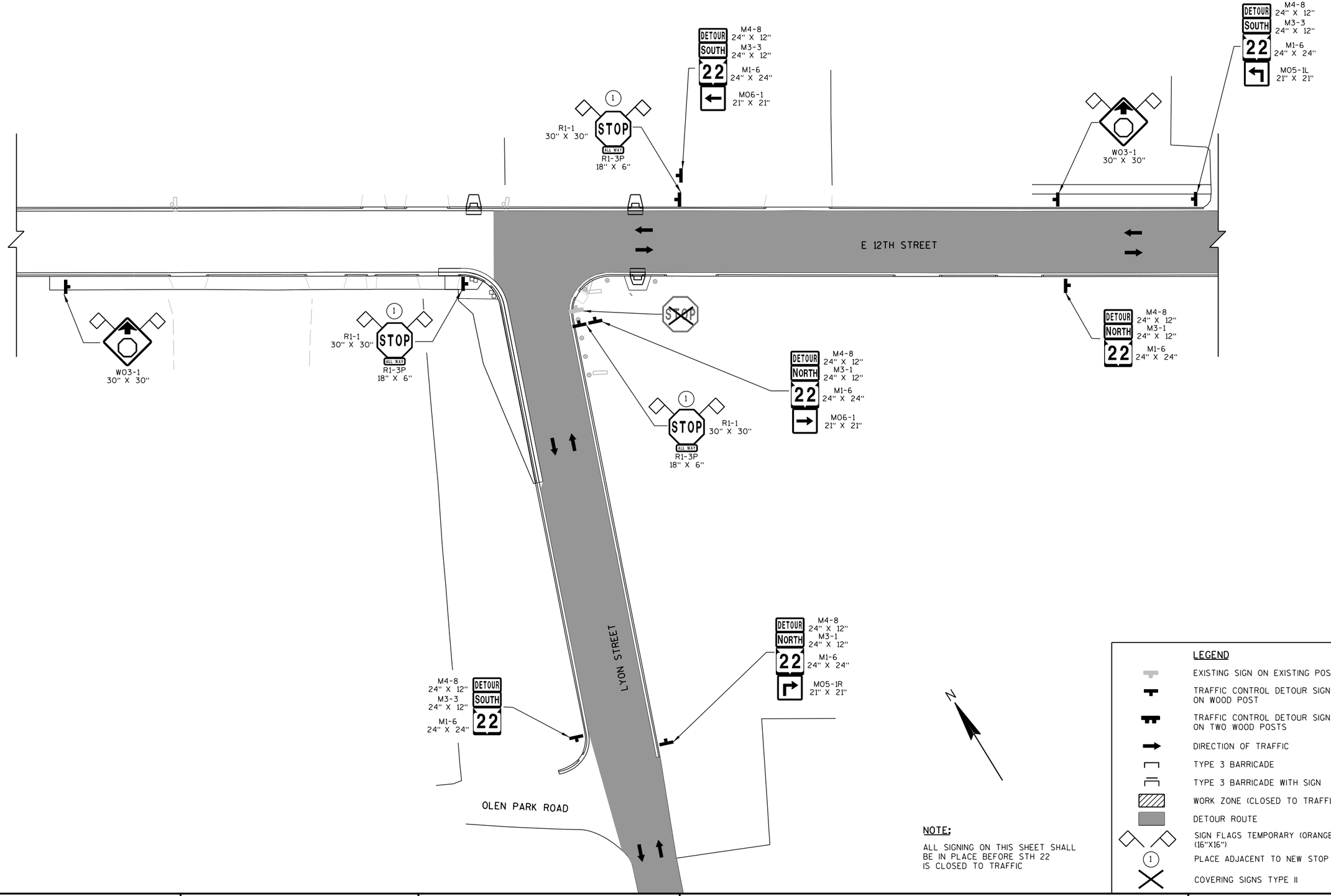
LEGEND

- EXISTING SIGN ON EXISTING POST
- TRAFFIC CONTROL DETOUR SIGN ON WOOD POST
- TRAFFIC CONTROL DETOUR SIGN ON TWO WOOD POSTS
- DIRECTION OF TRAFFIC
- TYPE 3 BARRICADE
- TYPE 3 BARRICADE WITH SIGN
- WORK ZONE (CLOSED TO TRAFFIC)
- DETOUR ROUTE
- COVERING SIGNS TYPE II





PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	DETOUR SIGNING	SHEET 88	E



PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	DETOUR SIGNING	SHEET 89	E

2

N

SPRING STREET

SSGT WARREN HANSEN DRIVE

M4-8 24" X 12"
M3-3 24" X 12"
M1-6 24" X 24"
DETOUR SOUTH 22

DETOUR NORTH 22
M4-8 24" X 12"
M3-3 24" X 12"
M1-6 24" X 24"

16TH STREET

SSGT WARREN HANSEN DRIVE

N

2

SUMMER ST

M4-8 24" X 12"
M3-1 24" X 12"
M1-6 24" X 24"
DETOUR NORTH 22

M4-8 24" X 12"
M3-3 24" X 12"
M1-6 24" X 24"
M06-1 21" X 21"
DETOUR SOUTH 22

M4-8 24" X 12"
M3-3 24" X 12"
M1-6 24" X 24"
M05-1L 21" X 21"
DETOUR SOUTH 22

M3-3 24" X 12"
M1-6 24" X 24"
SOUTH 22
DETOUR AHEAD
W20-2A

STH 156 (E GREEN TREE ROAD)

M4-8 24" X 12"
M3-3 24" X 12"
M1-6 24" X 24"
M05-1R 21" X 21"
DETOUR SOUTH 22

M4-8 24" X 12"
M3-3 24" X 12"
M1-6 24" X 24"
M06-1 21" X 21"
DETOUR SOUTH 22

INDUSTRIAL AVENUE

STOP

M4-8 24" X 12"
M3-1 24" X 12"
M1-6 24" X 24"
M06-1 21" X 21"
DETOUR NORTH WEST EAST 22 156 156

M3-2 24" X 12"
M1-6 24" X 24"
M06-1 21" X 21"

M3-4 24" X 12"
M1-6 24" X 24"
M06-1 21" X 21"

M4-8 24" X 12"
M3-1 24" X 12"
M1-6 24" X 24"
M05-1L 21" X 21"
DETOUR NORTH 22

SSGT WARREN HANSEN DRIVE

M4-8 24" X 12"
M3-3 24" X 12"
M1-6 24" X 24"
DETOUR SOUTH 22

LEGEND

- EXISTING SIGN ON EXISTING POST
- TRAFFIC CONTROL DETOUR SIGN ON WOOD POST
- TRAFFIC CONTROL DETOUR SIGN ON TWO WOOD POSTS
- DIRECTION OF TRAFFIC
- TYPE 3 BARRICADE
- TYPE 3 BARRICADE WITH SIGN
- WORK ZONE (CLOSED TO TRAFFIC)
- DETOUR ROUTE
- COVERING SIGNS TYPE II

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	DETOUR SIGNING (GREEN TREE RD/STH 156 OPEN)	SHEET 90	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

N

STH 22

END DETOUR / NORTH / 22
M4-8A 24" X 18"
M3-3 24" X 12"
M1-6 24" X 24"

STOP

SOUTH / NORTH 22

M4-8 24" X 12"
DETOUR / NORTH / END 22 156
M3-3 24" X 12"
M05-1R 24" X 12"

STH 156 (E GREENTREE ROAD)

W GREENTREE ROAD

M4-8 24" X 12"
DETOUR / SOUTH / EAST 22 156
M3-3 24" X 12"
M1-6 24" X 24"

STH 22 (N MAIN STREET)

ANNE STREET

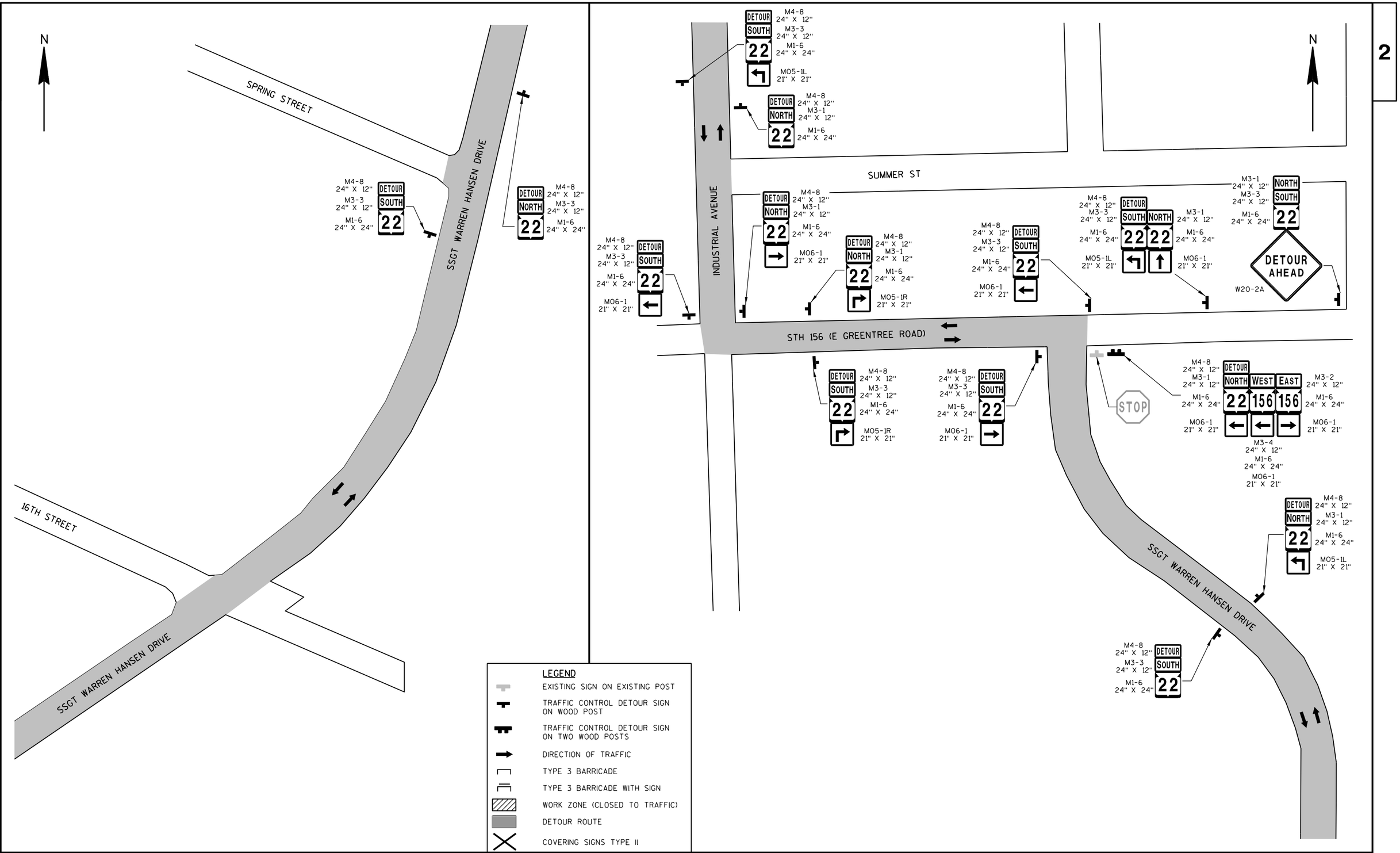
MCKINLEY AVENUE

NOTE:
REFER TO "TRAFFIC CONTROL (STH 156/GREEN TREE RD OPEN)" SHEET FOR ADDITIONAL DETOUR SIGNING.

LEGEND

- EXISTING SIGN ON EXISTING POST
- TRAFFIC CONTROL DETOUR SIGN ON WOOD POST
- TRAFFIC CONTROL DETOUR SIGN ON TWO WOOD POSTS
- DIRECTION OF TRAFFIC
- TYPE 3 BARRICADE
- TYPE 3 BARRICADE WITH SIGN
- WORK ZONE (CLOSED TO TRAFFIC)
- DETOUR ROUTE
- COVERING SIGNS TYPE II

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	DETOUR SIGNING (GREEN TREE RD/STH 156 OPEN)	SHEET 91	E



PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	DETOUR SIGNING (GREEN TREE RD/STH 156 CLOSED)	SHEET 92	E

2

N

DETOUR AHEAD
W20-2A

500'

500'

M4-8
24" X 12"
M3-3
24" X 12"
M1-6
24" X 24"
MO5-1L
21" X 21"
DETOUR
SOUTH
22

M4-8
24" X 12"
M3-3
24" X 12"
M1-6
24" X 24"
MO6-1
21" X 21"
DETOUR
SOUTH
22

STH 22 (N MAIN STREET)

END DETOUR
NORTH
22
M4-8A
24" X 18"
M3-1
24" X 12"
M1-6
24" X 24"

NORTH
22
M3-1
24" X 12"
M1-6
24" X 24"
MO6-1
21" X 21"

STOP

AUTUMN STREET

DETOUR
M4-9L
30" X 24"

DETOUR
SOUTH
22
M4-8
24" X 12"
M3-3
24" X 12"
M1-6
24" X 24"

ROAD CLOSED
1/3 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

LEGEND

- EXISTING SIGN ON EXISTING POST
- TRAFFIC CONTROL DETOUR SIGN ON WOOD POST
- TRAFFIC CONTROL DETOUR SIGN ON TWO WOOD POSTS
- DIRECTION OF TRAFFIC
- TYPE 3 BARRICADE
- TYPE 3 BARRICADE WITH SIGN
- WORK ZONE (CLOSED TO TRAFFIC)
- DETOUR ROUTE
- COVERING SIGNS TYPE II

N

WINTER STREET

2

NORTH
22
M3-1
24" X 12"
M1-6
24" X 24"
MO5-1R
21" X 21"

M4-8
24" X 12"
M3-1
24" X 12"
M1-6
24" X 24"
DETOUR
NORTH
22

AUTUMN STREET

STOP

DETOUR
SOUTH
22
M4-8
24" X 12"
M3-3
24" X 12"
M1-6
24" X 24"
MO5-1R
21" X 21"

STOP

AUTUMN STREET

DETOUR
NORTH
22
M4-8
24" X 12"
M3-1
24" X 12"
M1-6
24" X 24"
MO6-1
21" X 21"

M4-8
24" X 12"
M3-3
24" X 12"
M1-6
24" X 24"
DETOUR
SOUTH
22

M4-8
24" X 12"
M3-3
24" X 12"
M1-6
24" X 24"
DETOUR
SOUTH
22

INDUSTRIAL AVENUE

DETOUR
NORTH
22
M4-8
24" X 12"
M3-1
24" X 12"
M1-6
24" X 24"
MO5-1L
21" X 21"

SUMMER STREET

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	DETOUR SIGNING (GREEN TREE RD/STH 156 CLOSED)	SHEET 93	E

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WISDOT/CADDS SHEET 42

2

TRAFFIC CONTROL NOTES:

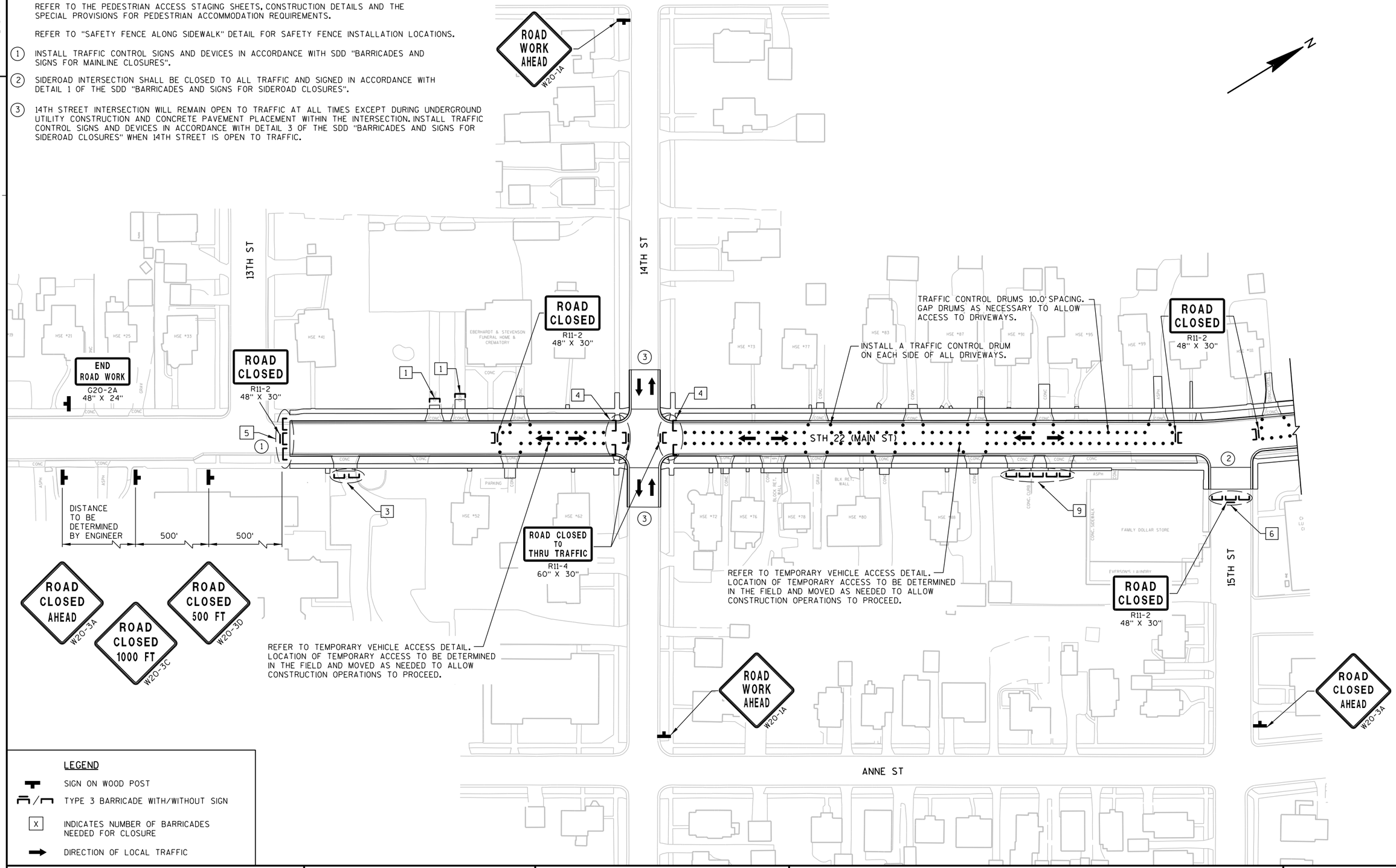
REFER TO THE PEDESTRIAN ACCESS STAGING SHEETS, CONSTRUCTION DETAILS AND THE SPECIAL PROVISIONS FOR PEDESTRIAN ACCOMMODATION REQUIREMENTS.

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

(1) INSTALL TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

(2) SIDEROAD INTERSECTION SHALL BE CLOSED TO ALL TRAFFIC AND SIGNED IN ACCORDANCE WITH DETAIL 1 OF THE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".

(3) 14TH STREET INTERSECTION WILL REMAIN OPEN TO TRAFFIC AT ALL TIMES EXCEPT DURING UNDERGROUND UTILITY CONSTRUCTION AND CONCRETE PAVEMENT PLACEMENT WITHIN THE INTERSECTION. INSTALL TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH DETAIL 3 OF THE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" WHEN 14TH STREET IS OPEN TO TRAFFIC.



LEGEND

- SIGN ON WOOD POST
- TYPE 3 BARRICADE WITH/WITHOUT SIGN
- [X] INDICATES NUMBER OF BARRICADES NEEDED FOR CLOSURE
- DIRECTION OF LOCAL TRAFFIC

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TRAFFIC CONTROL (14TH ST OPEN)	SHEET 94	E

2

TRAFFIC CONTROL NOTES:

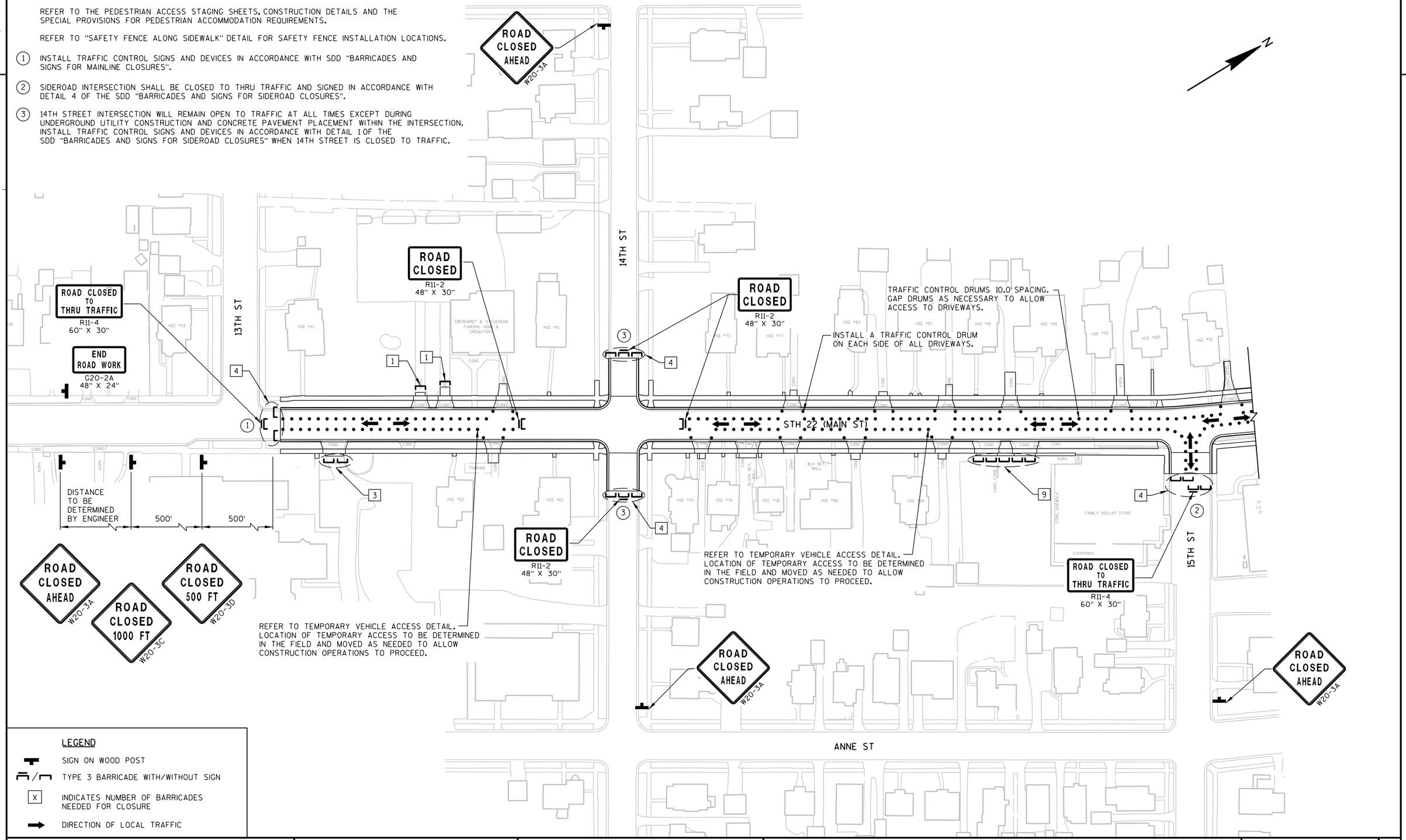
REFER TO THE PEDESTRIAN ACCESS STAGING SHEETS, CONSTRUCTION DETAILS AND THE SPECIAL PROVISIONS FOR PEDESTRIAN ACCOMMODATION REQUIREMENTS.

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

(1) INSTALL TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

(2) SIDEROAD INTERSECTION SHALL BE CLOSED TO THRU TRAFFIC AND SIGNED IN ACCORDANCE WITH DETAIL 4 OF THE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".

(3) 14TH STREET INTERSECTION WILL REMAIN OPEN TO TRAFFIC AT ALL TIMES EXCEPT DURING UNDERGROUND UTILITY CONSTRUCTION AND CONCRETE PAVEMENT PLACEMENT WITHIN THE INTERSECTION. INSTALL TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH DETAIL 1 OF THE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" WHEN 14TH STREET IS CLOSED TO TRAFFIC.



LEGEND

- SIGN ON WOOD POST
- TYPE 3 BARRICADE WITH/WITHOUT SIGN
- [X] INDICATES NUMBER OF BARRICADES NEEDED FOR CLOSURE
- DIRECTION OF LOCAL TRAFFIC

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TRAFFIC CONTROL (14TH ST CLOSED)	SHEET 95	E

2

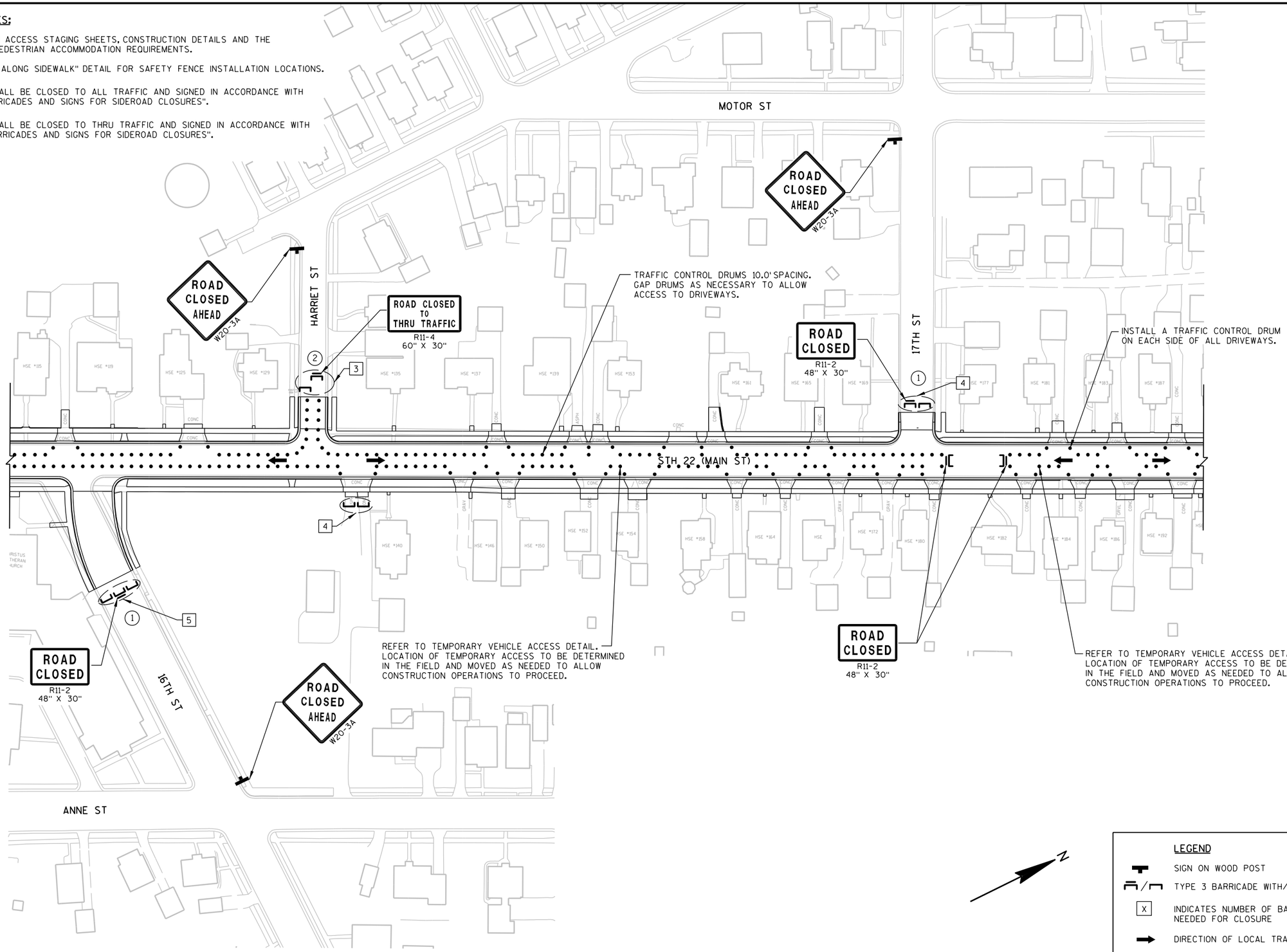
TRAFFIC CONTROL NOTES:

REFER TO THE PEDESTRIAN ACCESS STAGING SHEETS, CONSTRUCTION DETAILS AND THE SPECIAL PROVISIONS FOR PEDESTRIAN ACCOMMODATION REQUIREMENTS.

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

(1) SIDEROAD INTERSECTION SHALL BE CLOSED TO ALL TRAFFIC AND SIGNED IN ACCORDANCE WITH DETAIL 1 OF THE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".

(2) SIDEROAD INTERSECTION SHALL BE CLOSED TO THRU TRAFFIC AND SIGNED IN ACCORDANCE WITH DETAIL 4 OF THE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".



LEGEND

- SIGN ON WOOD POST
- TYPE 3 BARRICADE WITH/WITHOUT SIGN
- [X] INDICATES NUMBER OF BARRICADES NEEDED FOR CLOSURE
- DIRECTION OF LOCAL TRAFFIC

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TRAFFIC CONTROL	SHEET 96	E

2

TRAFFIC CONTROL NOTES:

THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE CROSS TRAFFIC ROUTE (18TH STREET TO 19TH STREET, 20TH STREET TO NORTH PARK STREET, AND 20TH STREET TO 19TH STREET) AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR WILL HAVE FLEXIBILITY DURING THEIR CONSTRUCTION OPERATIONS ON WHICH ROUTE WILL REMAIN OPEN. THE CONTRACTOR WILL NOT BE ALLOWED TO ROUTE CROSS TRAFFIC FROM 18TH STREET TO NORTH PARK STREET.

REFER TO THE PEDESTRIAN ACCESS STAGING SHEETS, CONSTRUCTION DETAILS AND THE SPECIAL PROVISIONS FOR PEDESTRIAN ACCOMMODATION REQUIREMENTS.

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

(1) SIDEROAD INTERSECTION SHALL BE OPEN AND SIGNED IN ACCORDANCE WITH DETAIL 3 OF THE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".

(2) SIDEROAD INTERSECTION SHALL BE CLOSED TO ALL TRAFFIC AND SIGNED IN ACCORDANCE WITH DETAIL 1 OF THE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".

(3) MOVE SIGN AND EXTEND DRUMS 300 FT NORTH TO SOUTH END OF MEDIAN ISLAND WHEN STH 22/STH 156/GREEN TREE ROAD INTERSECTION IS CLOSED.

MOTOR ST

18TH ST

20TH ST

19TH ST

NORTH PARK ST

ANNE ST

STH 22 (MAIN ST)

ROAD WORK AHEAD W20-1A

ROAD CLOSED AHEAD W20-3A

ROAD CLOSED R11-2 48" X 30"

ROAD CLOSED TO THRU TRAFFIC R11-4 60" X 30"

SIDEWALK CLOSED R9-9 30" X 18"

TRAFFIC CONTROL DRUMS 10.0' SPACING. GAP DRUMS AS NECESSARY TO ALLOW ACCESS TO DRIVEWAYS.

INSTALL A TRAFFIC CONTROL DRUM ON EACH SIDE OF ALL DRIVEWAYS.

REFER TO TEMPORARY VEHICLE ACCESS DETAIL. LOCATION OF TEMPORARY ACCESS TO BE DETERMINED IN THE FIELD AND MOVED AS NEEDED TO ALLOW CONSTRUCTION OPERATIONS TO PROCEED.

CLINTONVILLE MIDDLE SCHOOL

HSE *193 HSE *194 HSE *198 HSE *203 HSE *205 HSE *207 HSE *213 HSE *215 HSE *220 HSE *230 HSE *240 HSE *241 HSE *246 HSE *250 HSE *256 HSE *262

CONC ASPH GRAV GAR

LEGEND

- SIGN ON WOOD POST
- TYPE 3 BARRICADE WITH/WITHOUT SIGN
- [X] INDICATES NUMBER OF BARRICADES NEEDED FOR CLOSURE
- DIRECTION OF LOCAL TRAFFIC

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TRAFFIC CONTROL (18TH ST TO 19TH ST OPEN)	SHEET 97	E

2

TRAFFIC CONTROL NOTES:

THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE CROSS TRAFFIC ROUTE (18TH STREET TO 19TH STREET, 20TH STREET TO NORTH PARK STREET, AND 20TH STREET TO 19TH STREET) AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR WILL HAVE FLEXIBILITY DURING THEIR CONSTRUCTION OPERATIONS ON WHICH ROUTE WILL REMAIN OPEN. THE CONTRACTOR WILL NOT BE ALLOWED TO ROUTE CROSS TRAFFIC FROM 18TH STREET TO NORTH PARK STREET.

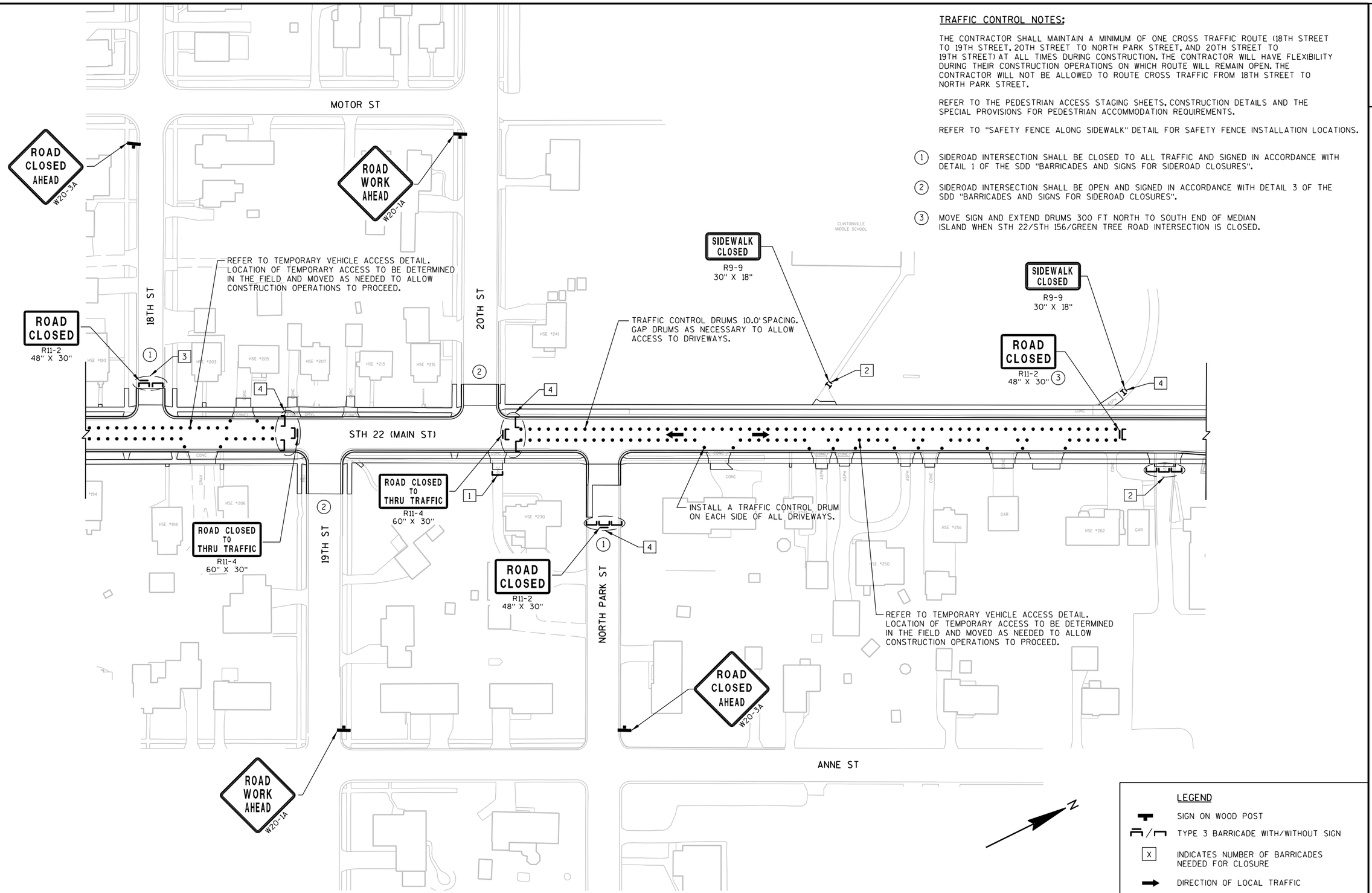
REFER TO THE PEDESTRIAN ACCESS STAGING SHEETS, CONSTRUCTION DETAILS AND THE SPECIAL PROVISIONS FOR PEDESTRIAN ACCOMMODATION REQUIREMENTS.

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

(1) SIDEROAD INTERSECTION SHALL BE CLOSED TO ALL TRAFFIC AND SIGNED IN ACCORDANCE WITH DETAIL 1 OF THE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".

(2) SIDEROAD INTERSECTION SHALL BE OPEN AND SIGNED IN ACCORDANCE WITH DETAIL 3 OF THE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".

(3) MOVE SIGN AND EXTEND DRUMS 300 FT NORTH TO SOUTH END OF MEDIAN ISLAND WHEN STH 22/STH 156/GREEN TREE ROAD INTERSECTION IS CLOSED.



LEGEND

- SIGN ON WOOD POST
- TYPE 3 BARRICADE WITH/WITHOUT SIGN
- [X] INDICATES NUMBER OF BARRICADES NEEDED FOR CLOSURE
- DIRECTION OF LOCAL TRAFFIC

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TRAFFIC CONTROL (19TH ST TO 20TH ST OPEN)	SHEET 98	E

2

2

TRAFFIC CONTROL NOTES:

THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE CROSS TRAFFIC ROUTE (18TH STREET TO 19TH STREET, 20TH STREET TO NORTH PARK STREET, AND 20TH STREET TO 19TH STREET) AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR WILL HAVE FLEXIBILITY DURING THEIR CONSTRUCTION OPERATIONS ON WHICH ROUTE WILL REMAIN OPEN. THE CONTRACTOR WILL NOT BE ALLOWED TO ROUTE CROSS TRAFFIC FROM 18TH STREET TO NORTH PARK STREET.

REFER TO THE PEDESTRIAN ACCESS STAGING SHEETS, CONSTRUCTION DETAILS AND THE SPECIAL PROVISIONS FOR PEDESTRIAN ACCOMMODATION REQUIREMENTS.

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

(1) SIDEROAD INTERSECTION SHALL BE CLOSED TO ALL TRAFFIC AND SIGNED IN ACCORDANCE WITH DETAIL 1 OF THE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".

(2) SIDEROAD INTERSECTION SHALL BE OPEN AND SIGNED IN ACCORDANCE WITH DETAIL 3 OF THE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".

(3) MOVE SIGN AND EXTEND DRUMS 300 FT NORTH TO SOUTH END OF MEDIAN ISLAND WHEN STH 22/STH 156/GREEN TREE ROAD INTERSECTION IS CLOSED.

MOTOR ST

ROAD CLOSED AHEAD W20-3A

ROAD WORK AHEAD W20-1A

REFER TO TEMPORARY VEHICLE ACCESS DETAIL. LOCATION OF TEMPORARY ACCESS TO BE DETERMINED IN THE FIELD AND MOVED AS NEEDED TO ALLOW CONSTRUCTION OPERATIONS TO PROCEED.

18TH ST

20TH ST

ROAD CLOSED R11-2 48" X 30"

ROAD CLOSED TO THRU TRAFFIC R11-4 60" X 30"

SIDEWALK CLOSED R9-9 30" X 18"

SIDEWALK CLOSED R9-9 30" X 18"

ROAD CLOSED R11-2 48" X 30"

CLINTONVILLE MIDDLE SCHOOL

STH 22 (MAIN ST)

19TH ST

NORTH PARK ST

ROAD CLOSED R11-2 48" X 30"

ROAD CLOSED TO THRU TRAFFIC R11-4 60" X 30"

TRAFFIC CONTROL DRUMS 10.0' SPACING. GAP DRUMS AS NECESSARY TO ALLOW ACCESS TO DRIVEWAYS.

REFER TO TEMPORARY VEHICLE ACCESS DETAIL. LOCATION OF TEMPORARY ACCESS TO BE DETERMINED IN THE FIELD AND MOVED AS NEEDED TO ALLOW CONSTRUCTION OPERATIONS TO PROCEED.

ROAD WORK AHEAD W20-1A

ANNE ST

ROAD CLOSED AHEAD W20-3A

N

LEGEND

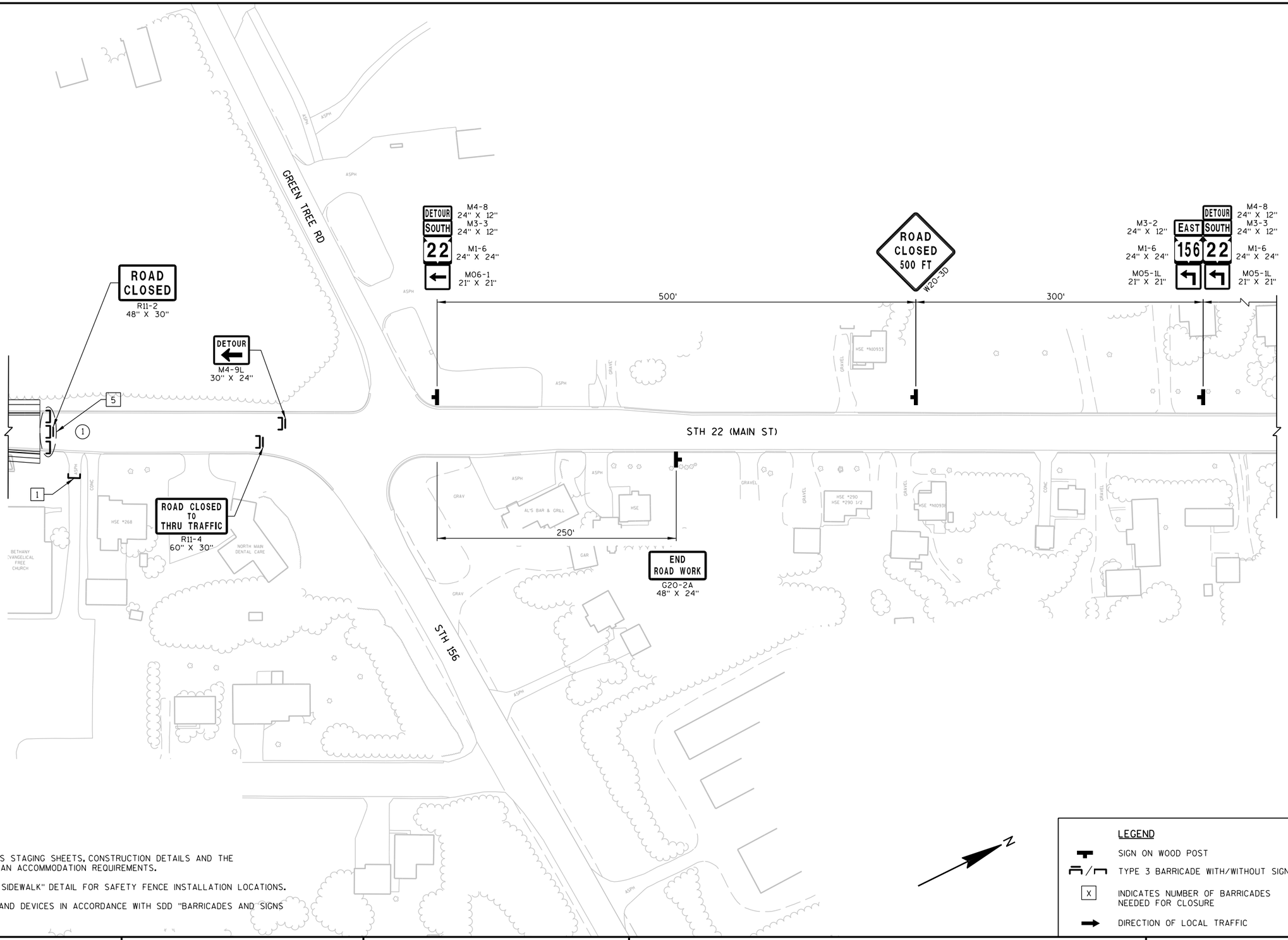
- SIGN ON WOOD POST
- TYPE 3 BARRICADE WITH/WITHOUT SIGN
- [X] INDICATES NUMBER OF BARRICADES NEEDED FOR CLOSURE
- DIRECTION OF LOCAL TRAFFIC

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TRAFFIC CONTROL (20TH ST TO PARK ST OPEN)	SHEET 99	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2



TRAFFIC CONTROL NOTES:

REFER TO THE PEDESTRIAN ACCESS STAGING SHEETS, CONSTRUCTION DETAILS AND THE SPECIAL PROVISIONS FOR PEDESTRIAN ACCOMMODATION REQUIREMENTS.

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

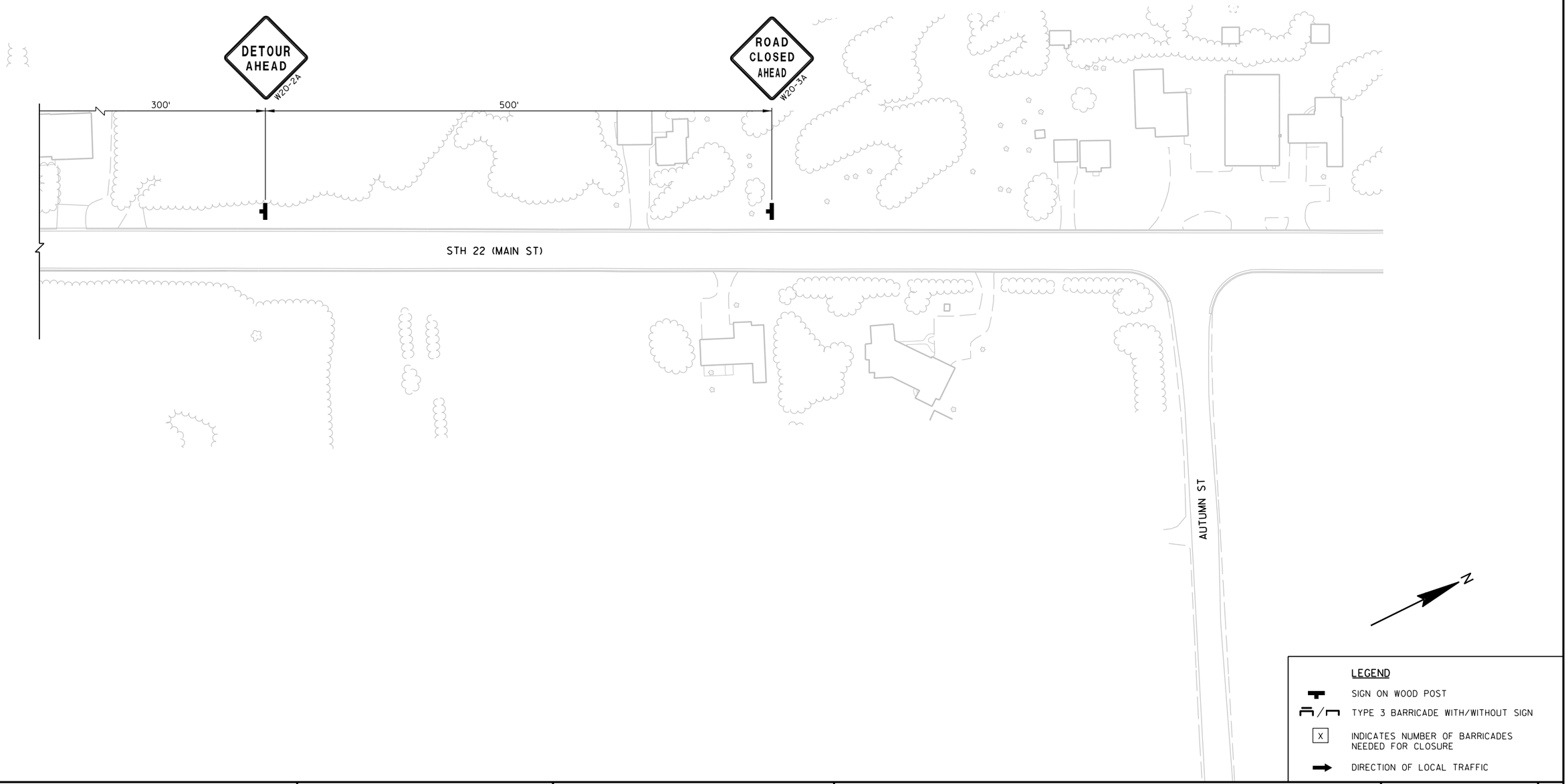
(1) INSTALL TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

LEGEND

- SIGN ON WOOD POST
- TYPE 3 BARRICADE WITH/WITHOUT SIGN
- [X] INDICATES NUMBER OF BARRICADES NEEDED FOR CLOSURE
- DIRECTION OF LOCAL TRAFFIC

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TRAFFIC CONTROL (STH 156 / GREEN TREE RD OPEN)	SHEET 100	E

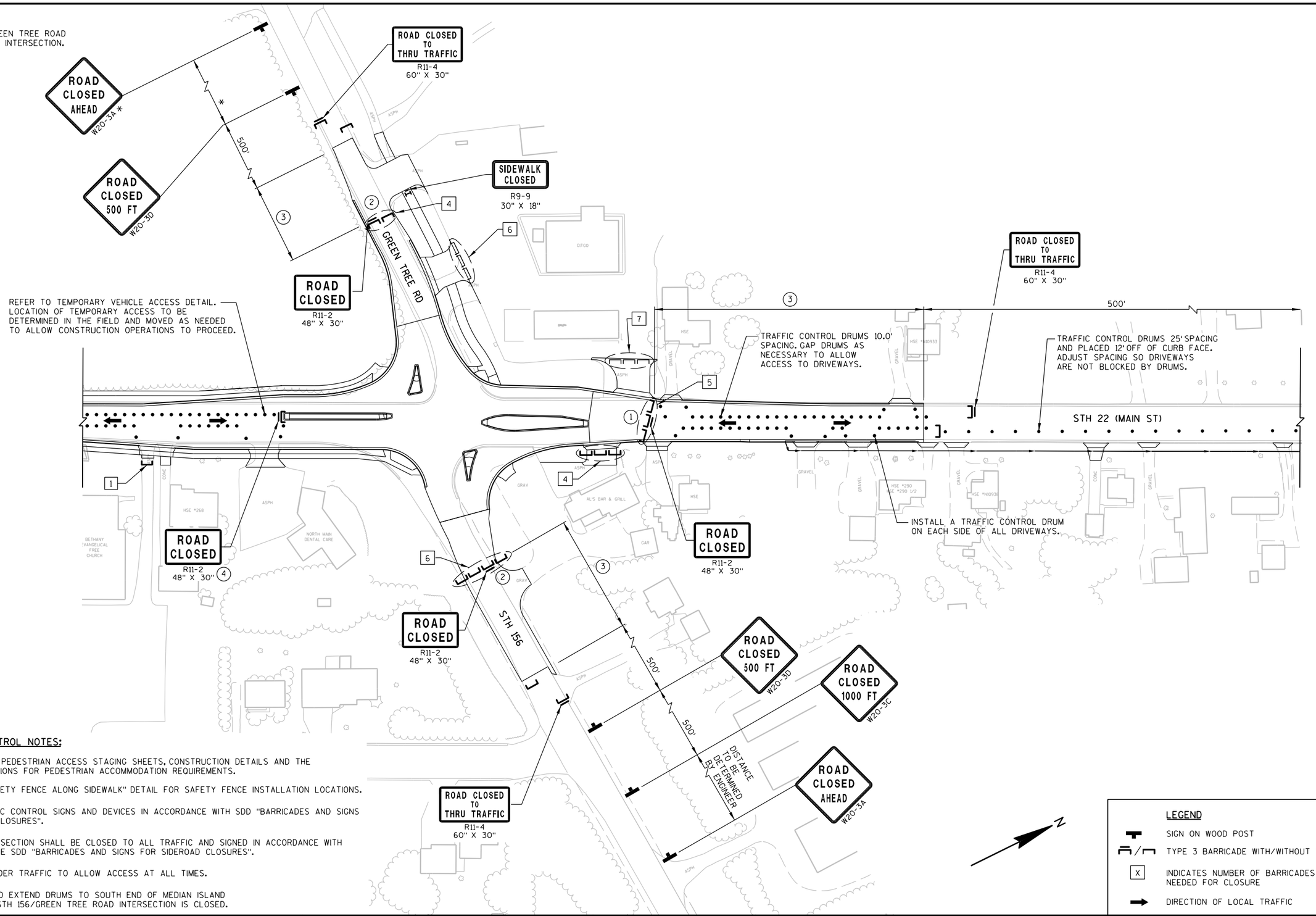
2



PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TRAFFIC CONTROL (STH 156 / GREEN TREE RD OPEN)	SHEET 101	E

2

* PLACE SIGN AT GREEN TREE ROAD & HARRIET STREET INTERSECTION.



TRAFFIC CONTROL NOTES:

REFER TO THE PEDESTRIAN ACCESS STAGING SHEETS, CONSTRUCTION DETAILS AND THE SPECIAL PROVISIONS FOR PEDESTRIAN ACCOMMODATION REQUIREMENTS.

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

(1) INSTALL TRAFFIC CONTROL SIGNS AND DEVICES IN ACCORDANCE WITH SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

(2) SIDEROAD INTERSECTION SHALL BE CLOSED TO ALL TRAFFIC AND SIGNED IN ACCORDANCE WITH DETAIL 1 OF THE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES".

(3) CONSTRUCT UNDER TRAFFIC TO ALLOW ACCESS AT ALL TIMES.

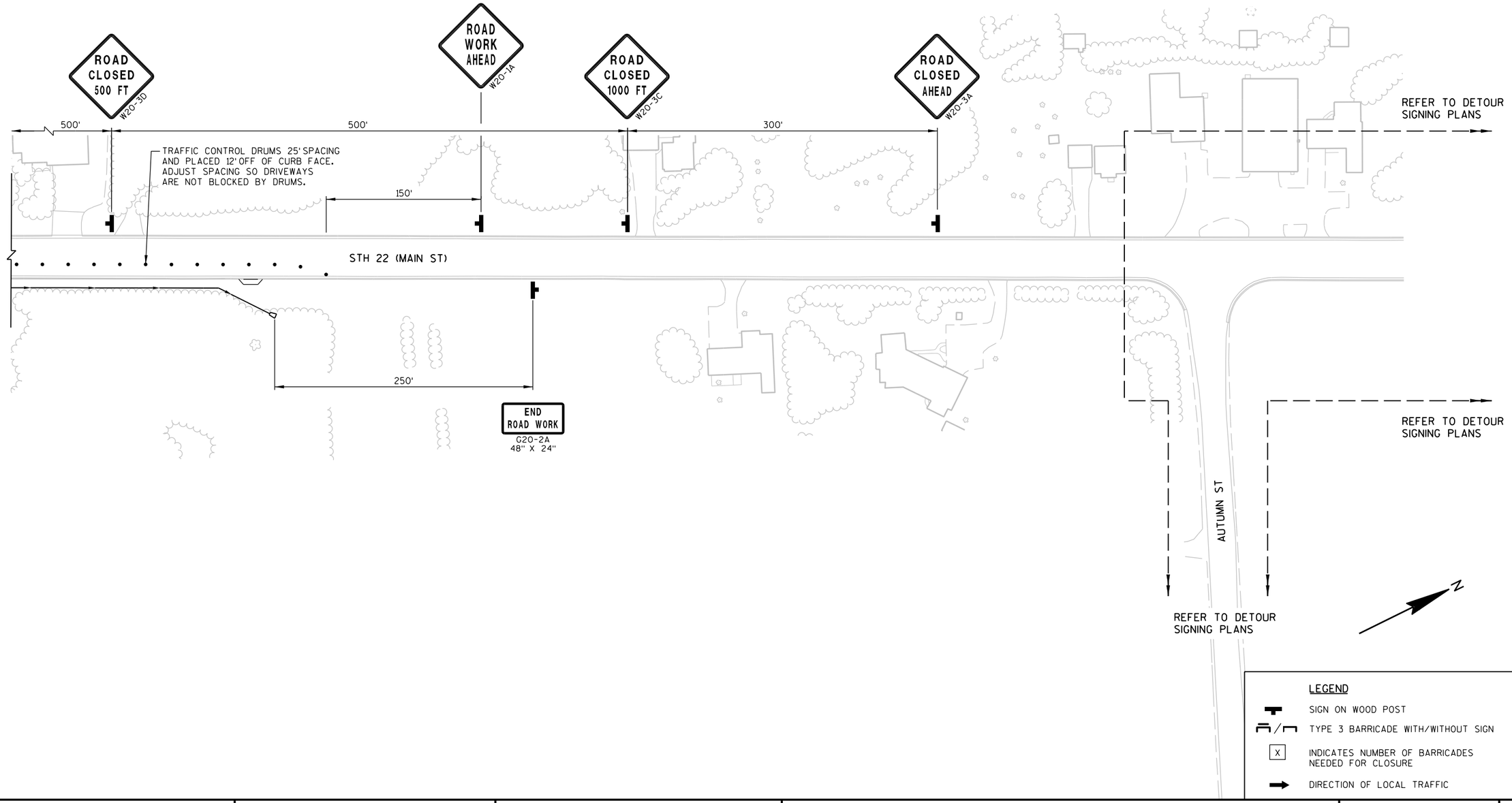
(4) PLACE SIGN AND EXTEND DRUMS TO SOUTH END OF MEDIAN ISLAND WHEN STH 22/STH 156/GREEN TREE ROAD INTERSECTION IS CLOSED.

LEGEND

- SIGN ON WOOD POST
- TYPE 3 BARRICADE WITH/WITHOUT SIGN
- [X] INDICATES NUMBER OF BARRICADES NEEDED FOR CLOSURE
- DIRECTION OF LOCAL TRAFFIC

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	TRAFFIC CONTROL (STH 156 / GREEN TREE RD CLOSED)	SHEET 102	E

2



PROJECT NO:6250-01-78	HWY:STH 22	COUNTY:WAUPACA	TRAFFIC CONTROL (STH 156 / GREEN TREE RD CLOSED)	SHEET 103	E

2

NOTES:

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

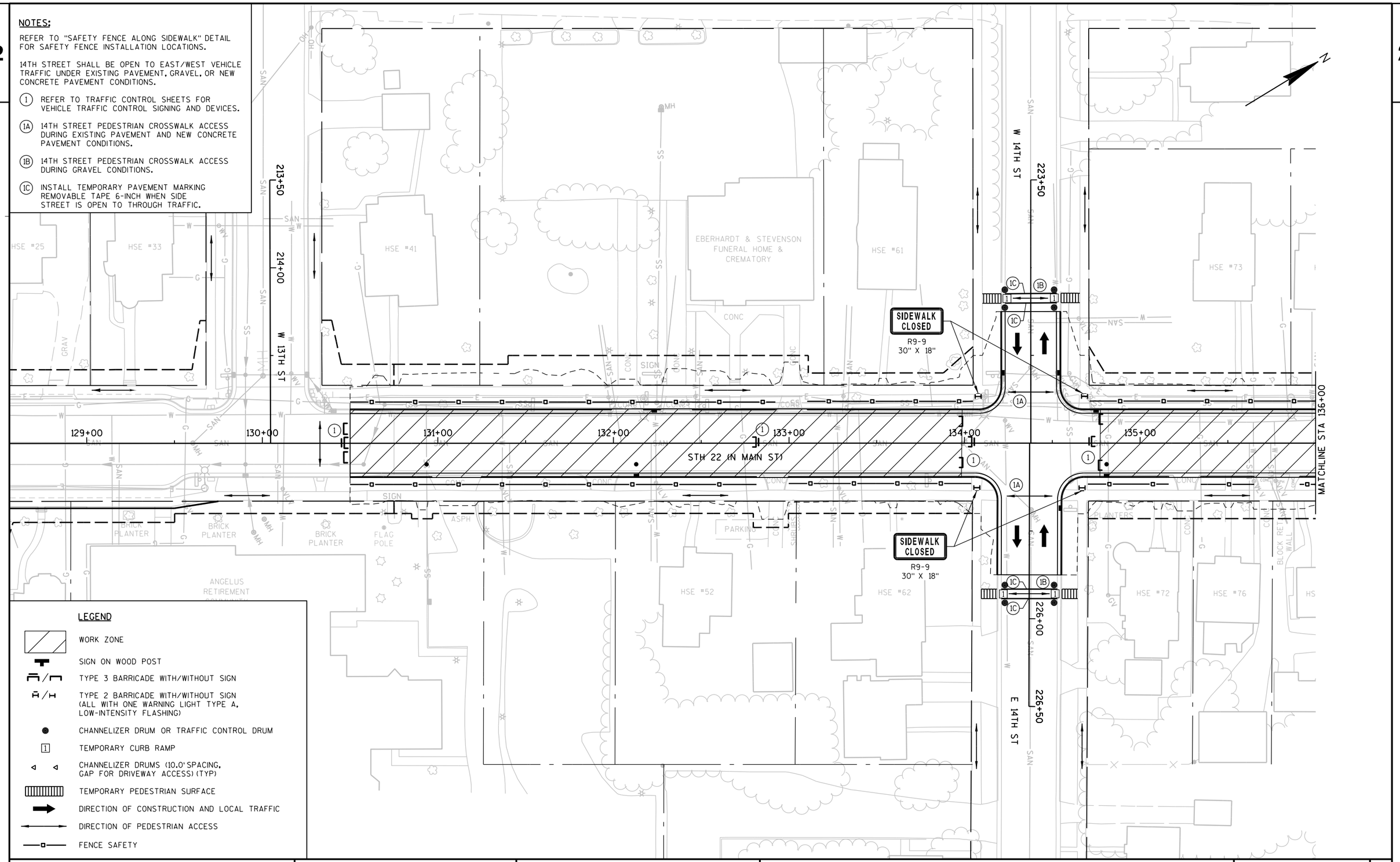
14TH STREET SHALL BE OPEN TO EAST/WEST VEHICLE TRAFFIC UNDER EXISTING PAVEMENT, GRAVEL, OR NEW CONCRETE PAVEMENT CONDITIONS.

(1) REFER TO TRAFFIC CONTROL SHEETS FOR VEHICLE TRAFFIC CONTROL SIGNING AND DEVICES.

(1A) 14TH STREET PEDESTRIAN CROSSWALK ACCESS DURING EXISTING PAVEMENT AND NEW CONCRETE PAVEMENT CONDITIONS.

(1B) 14TH STREET PEDESTRIAN CROSSWALK ACCESS DURING GRAVEL CONDITIONS.

(1C) INSTALL TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 6-INCH WHEN SIDE STREET IS OPEN TO THROUGH TRAFFIC.



LEGEND

- WORK ZONE
- SIGN ON WOOD POST
- TYPE 3 BARRICADE WITH/WITHOUT SIGN
- TYPE 2 BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT TYPE A, LOW-INTENSITY FLASHING)
- CHANNELIZER DRUM OR TRAFFIC CONTROL DRUM
- [1] TEMPORARY CURB RAMP
- CHANNELIZER DRUMS (10.0' SPACING, GAP FOR DRIVEWAY ACCESS) (TYP)
- TEMPORARY PEDESTRIAN SURFACE
- DIRECTION OF CONSTRUCTION AND LOCAL TRAFFIC
- DIRECTION OF PEDESTRIAN ACCESS
- FENCE SAFETY

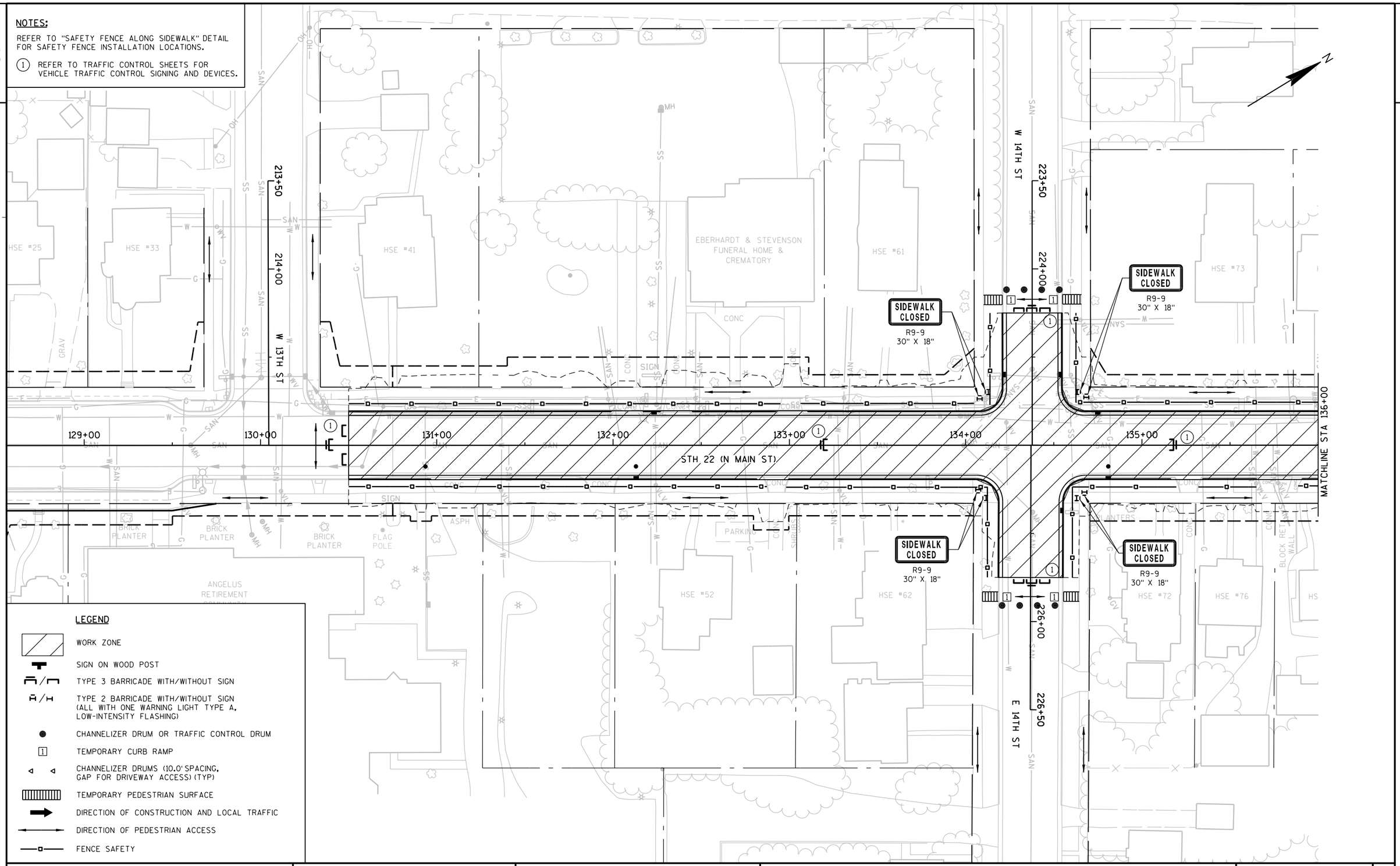
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PEDESTRIAN ACCESS STAGING (STAGE 1 - 14TH ST OPEN)	SHEET 104	E

2

NOTES:

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

(1) REFER TO TRAFFIC CONTROL SHEETS FOR VEHICLE TRAFFIC CONTROL SIGNING AND DEVICES.



LEGEND

- WORK ZONE
- SIGN ON WOOD POST
- TYPE 3 BARRICADE WITH/WITHOUT SIGN
- TYPE 2 BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT TYPE A, LOW-INTENSITY FLASHING)
- CHANNELIZER DRUM OR TRAFFIC CONTROL DRUM
- [1] TEMPORARY CURB RAMP
- CHANNELIZER DRUMS (10.0' SPACING, GAP FOR DRIVEWAY ACCESS) (TYP)
- TEMPORARY PEDESTRIAN SURFACE
- DIRECTION OF CONSTRUCTION AND LOCAL TRAFFIC
- DIRECTION OF PEDESTRIAN ACCESS
- FENCE SAFETY

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PEDESTRIAN ACCESS STAGING (STAGE 1 - 14TH ST CLOSED)	SHEET 105	E

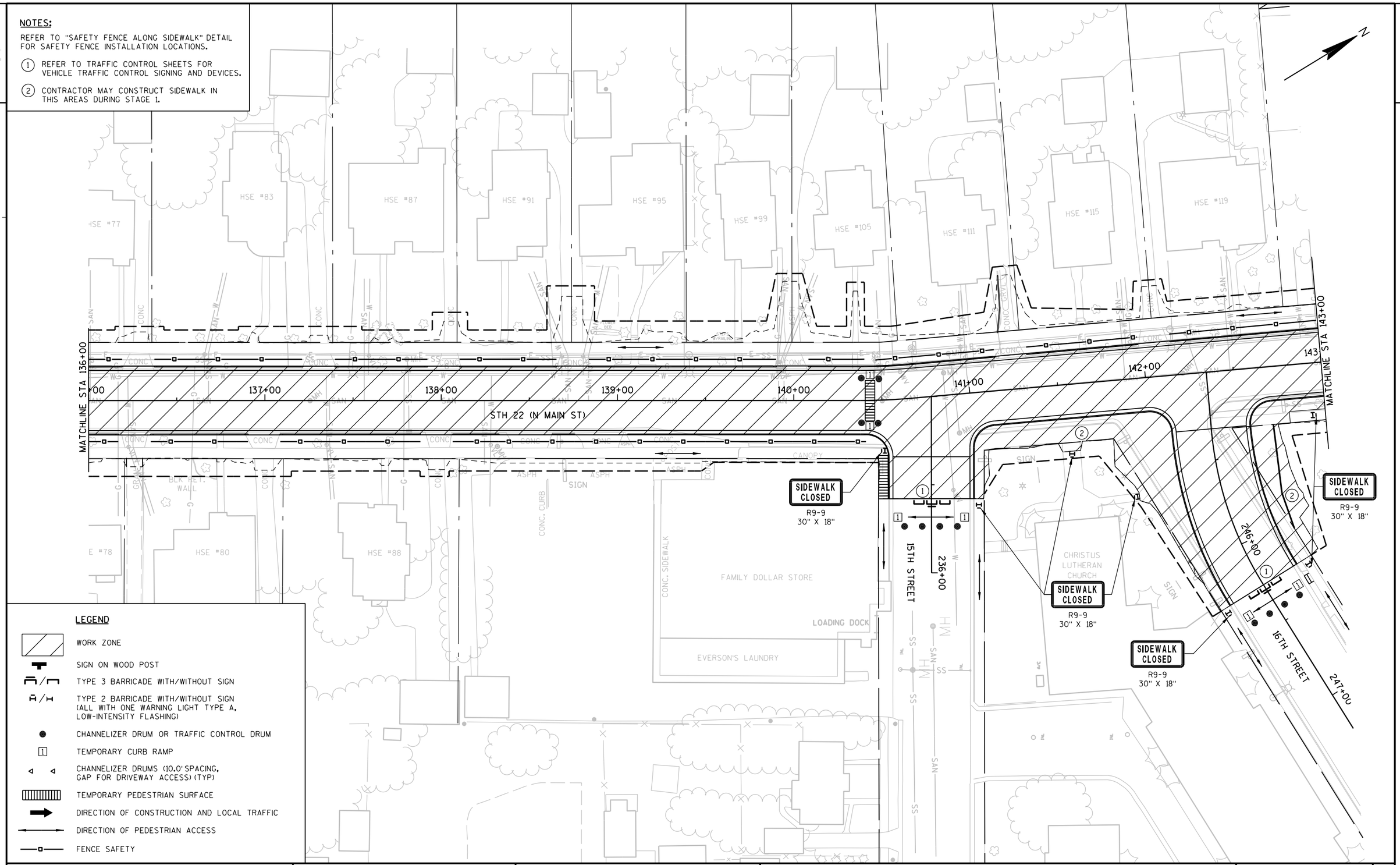
2

NOTES:

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

(1) REFER TO TRAFFIC CONTROL SHEETS FOR VEHICLE TRAFFIC CONTROL SIGNING AND DEVICES.

(2) CONTRACTOR MAY CONSTRUCT SIDEWALK IN THIS AREAS DURING STAGE 1.



LEGEND

- WORK ZONE
- SIGN ON WOOD POST
- TYPE 3 BARRICADE WITH/WITHOUT SIGN
- TYPE 2 BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT TYPE A, LOW-INTENSITY FLASHING)
- CHANNELIZER DRUM OR TRAFFIC CONTROL DRUM
- [1] TEMPORARY CURB RAMP
- CHANNELIZER DRUMS (10.0' SPACING, GAP FOR DRIVEWAY ACCESS) (TYP)
- TEMPORARY PEDESTRIAN SURFACE
- DIRECTION OF CONSTRUCTION AND LOCAL TRAFFIC
- DIRECTION OF PEDESTRIAN ACCESS
- FENCE SAFETY

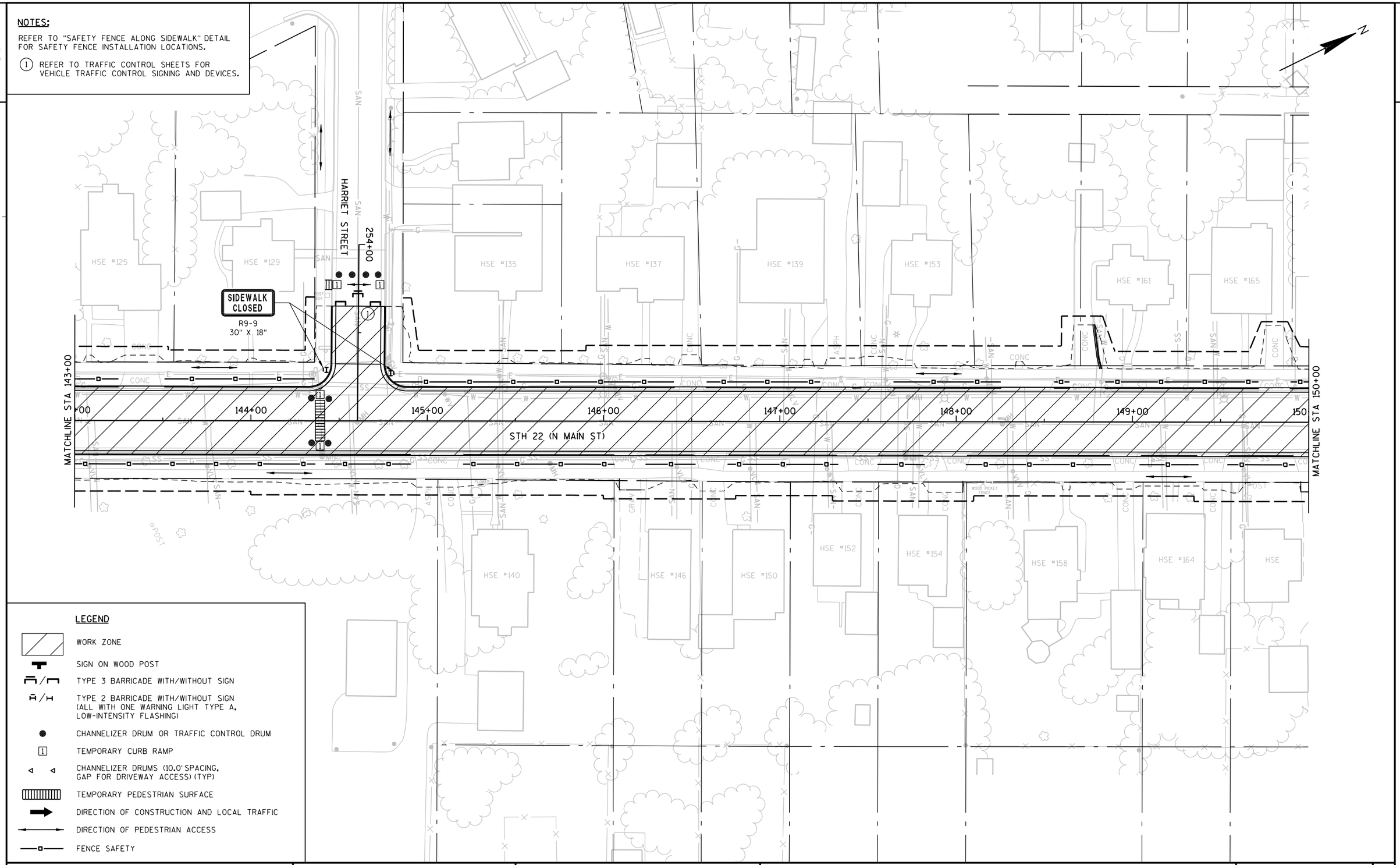
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PEDESTRIAN ACCESS STAGING (STAGE 1)	SHEET 106	E

2

NOTES:

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

(1) REFER TO TRAFFIC CONTROL SHEETS FOR VEHICLE TRAFFIC CONTROL SIGNING AND DEVICES.



LEGEND

- WORK ZONE
- SIGN ON WOOD POST
- TYPE 3 BARRICADE WITH/WITHOUT SIGN
- TYPE 2 BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT TYPE A, LOW-INTENSITY FLASHING)
- CHANNELIZER DRUM OR TRAFFIC CONTROL DRUM
- [1] TEMPORARY CURB RAMP
- CHANNELIZER DRUMS (10.0' SPACING, GAP FOR DRIVEWAY ACCESS) (TYP)
- TEMPORARY PEDESTRIAN SURFACE
- DIRECTION OF CONSTRUCTION AND LOCAL TRAFFIC
- DIRECTION OF PEDESTRIAN ACCESS
- FENCE SAFETY

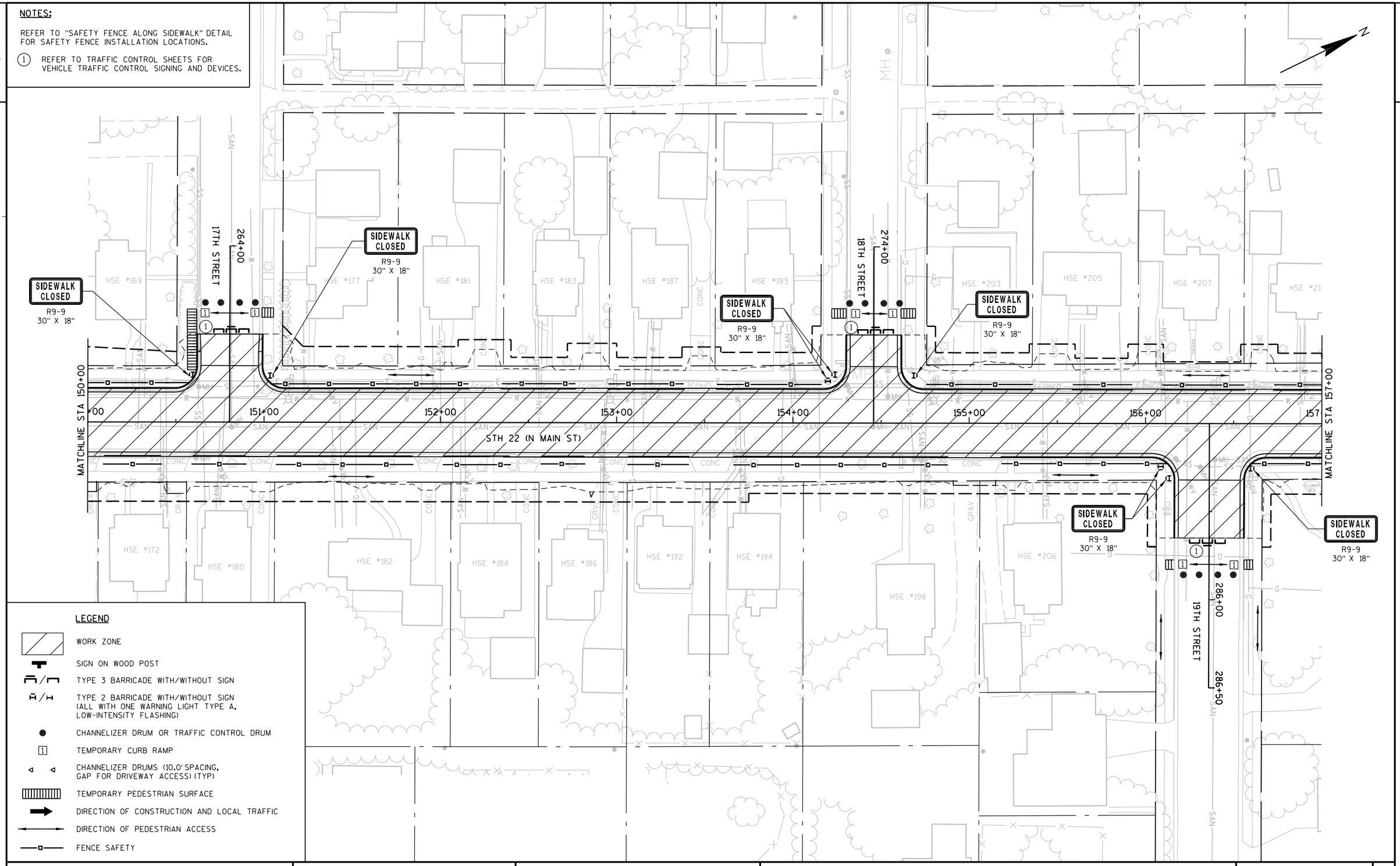
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PEDESTRIAN ACCESS STAGING (STAGE 1)	SHEET 107	E

NOTES:

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

(1) REFER TO TRAFFIC CONTROL SHEETS FOR VEHICLE TRAFFIC CONTROL SIGNING AND DEVICES.

2



LEGEND

- WORK ZONE
- SIGN ON WOOD POST
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- TEMPORARY PEDESTRIAN SURFACE
- DIRECTION OF CONSTRUCTION AND LOCAL TRAFFIC
- DIRECTION OF PEDESTRIAN ACCESS
- FENCE SAFETY

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PEDESTRIAN ACCESS STAGING (STAGE 1)	SHEET 108	E

NOTES:

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

APPLY SAME PEDESTRIAN ACCESS STAGING TRAFFIC CONTROL WHEN THE FOLLOWING SIDE STREET COMBINATIONS ARE OPEN TO TRAFFIC:

18TH STREET TO 19TH STREET
19TH STREET TO 20TH STREET
20TH STREET TO N PARK STREET

(1) REFER TO TRAFFIC CONTROL SHEETS FOR VEHICLE TRAFFIC CONTROL SIGNING AND DEVICES.

(2) INSTALL TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 6-INCH WHEN CROSS STREET IS OPEN TO TRAFFIC.

2

CLINTONVILLE MIDDLE SCHOOL

20TH STREET

293+50

294+00

MATCHLINE STA 157+00

158+00

159+00

160+00

161+00

162+00

163+00

164

STH 22 (N MAIN ST)

N PARK STREET

306+50

SIDEWALK CLOSED
R9-9
30" X 18"

STA 161+16 RT
END OF EXISTING SIDEWALK

CONSTRUCT NEW SIDEWALK DURING ROADWAY CONSTRUCTION IN STAGE 1.

HSE #215
HSE #241
HSE #220
HSE #230
HSE #240
HSE #246
HSE #250
HSE #256
GAR

LEGEND

- WORK ZONE
- SIGN ON WOOD POST
- TYPE 3 BARRICADE WITH/WITHOUT SIGN
- TYPE 2 BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT TYPE A, LOW-INTENSITY FLASHING)
- CHANNELIZER DRUM OR TRAFFIC CONTROL DRUM
- [1] TEMPORARY CURB RAMP
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- TEMPORARY PEDESTRIAN SURFACE
- DIRECTION OF CONSTRUCTION AND LOCAL TRAFFIC
- DIRECTION OF PEDESTRIAN ACCESS
- FENCE SAFETY

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PEDESTRIAN ACCESS STAGING (STAGE 1 - 20TH ST/N PARK ST OPEN)	SHEET 109	E

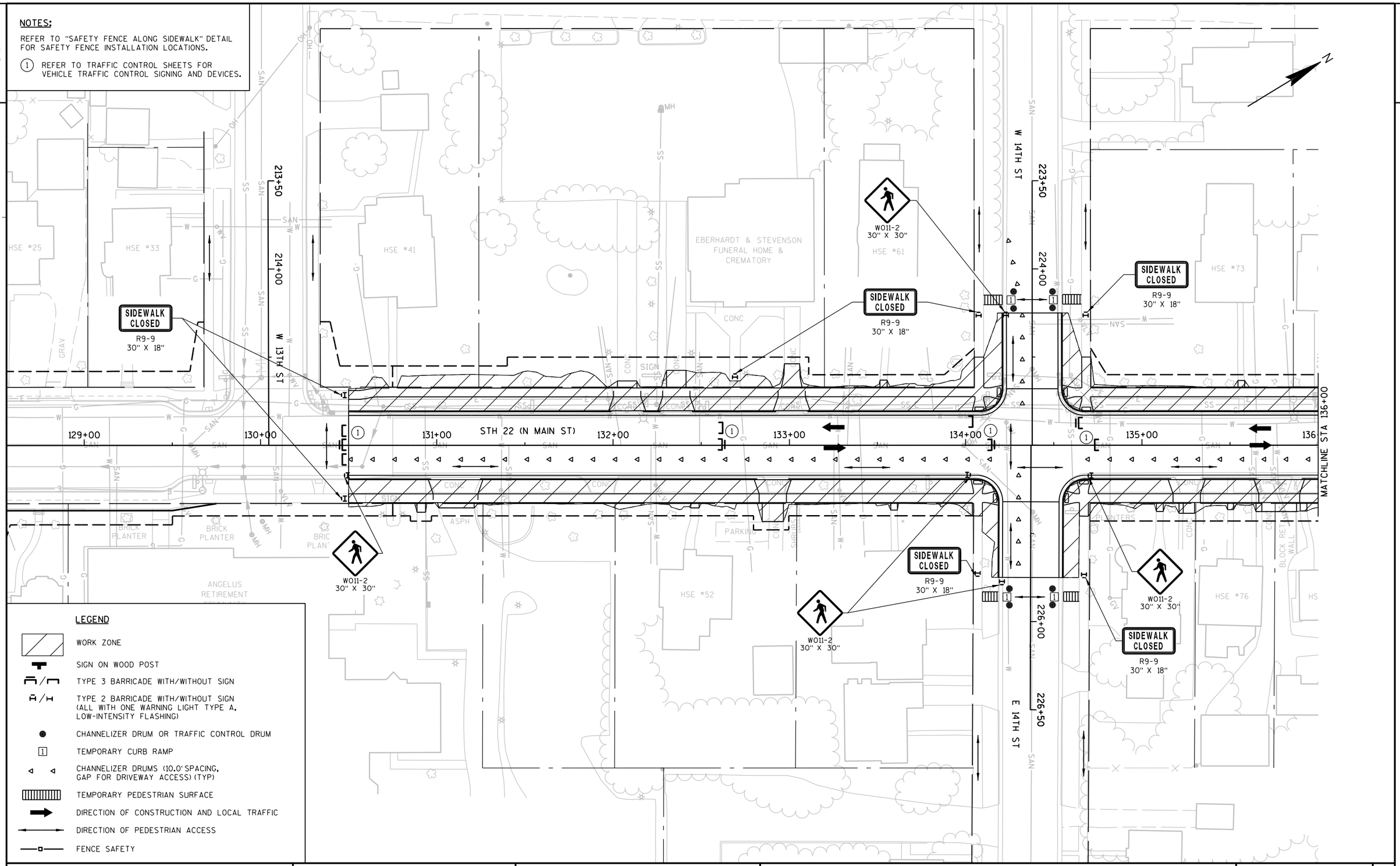
2

NOTES:

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

(1) REFER TO TRAFFIC CONTROL SHEETS FOR VEHICLE TRAFFIC CONTROL SIGNING AND DEVICES.

2



PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PEDESTRIAN ACCESS STAGING (STAGE 2 - 14TH ST OPEN)	SHEET	E

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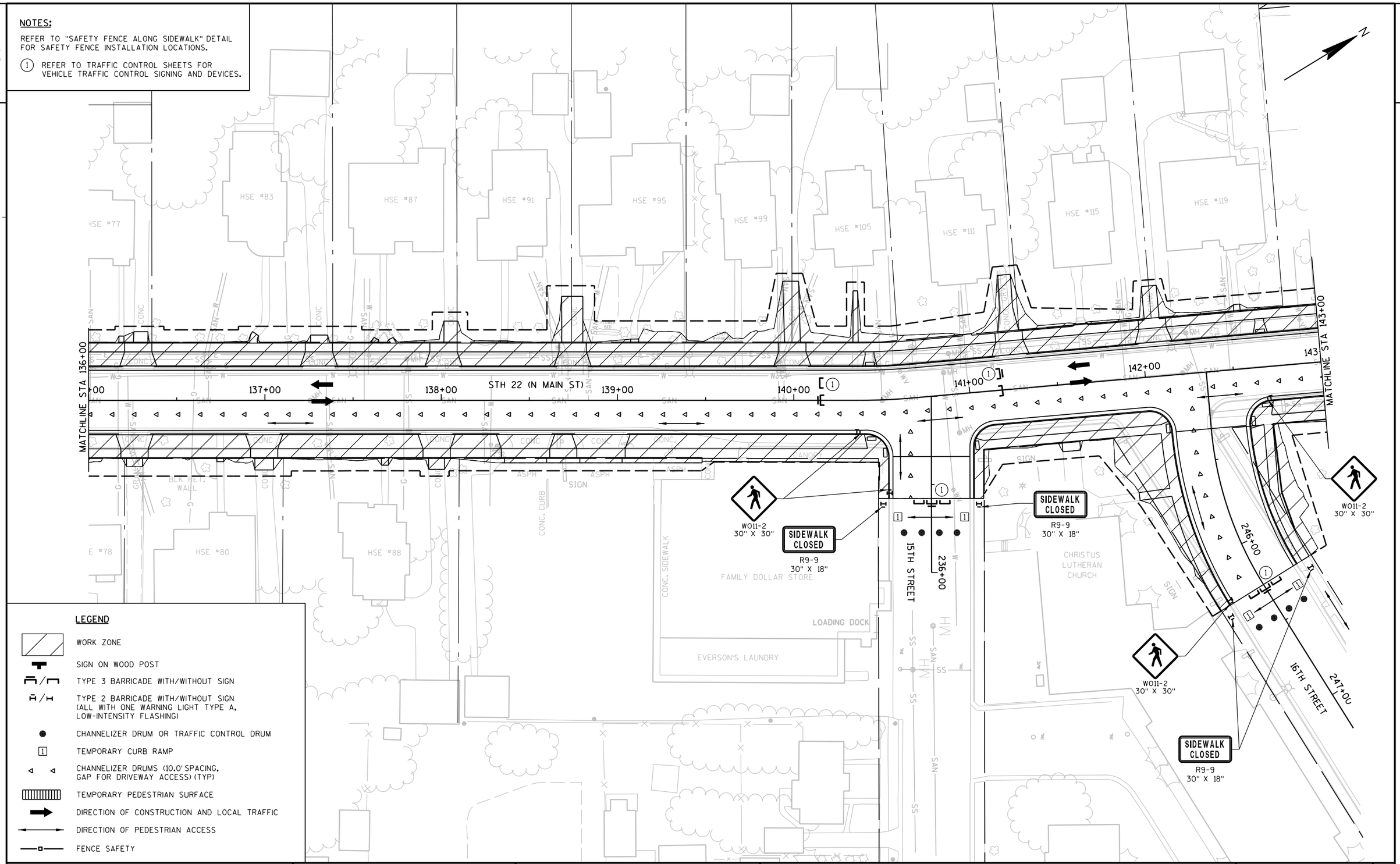
NOTES:

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

(1) REFER TO TRAFFIC CONTROL SHEETS FOR VEHICLE TRAFFIC CONTROL SIGNING AND DEVICES.



LEGEND

- WORK ZONE
- SIGN ON WOOD POST
- TYPE 3 BARRICADE WITH/WITHOUT SIGN
- TYPE 2 BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT TYPE A, LOW-INTENSITY FLASHING)
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- TEMPORARY PEDESTRIAN SURFACE
- DIRECTION OF CONSTRUCTION AND LOCAL TRAFFIC
- DIRECTION OF PEDESTRIAN ACCESS
- FENCE SAFETY

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PEDESTRIAN ACCESS STAGING (STAGE 2)	SHEET 111	E

2

NOTES:

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

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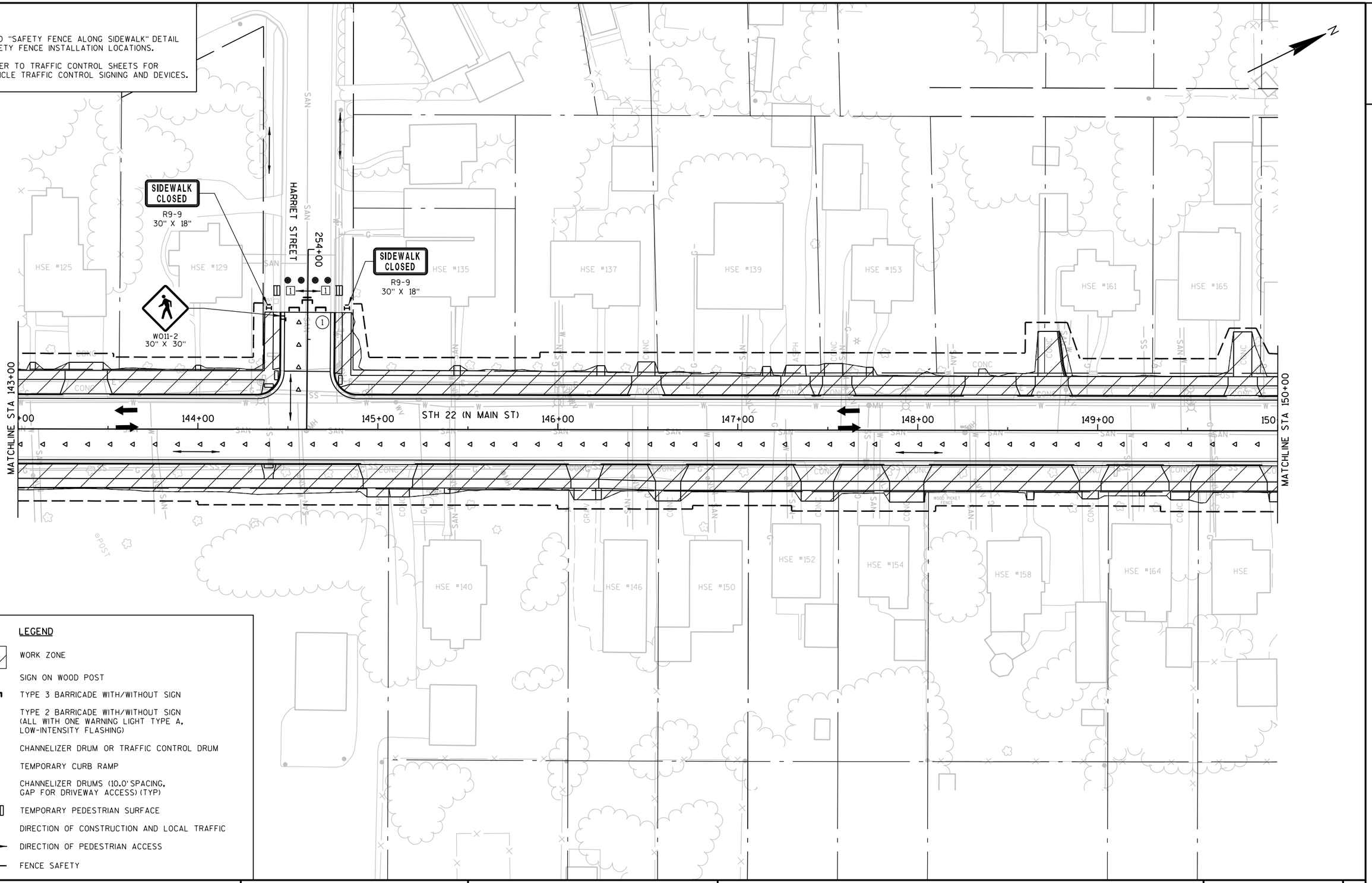

LEGEND

- WORK ZONE
- SIGN ON WOOD POST
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- TEMPORARY PEDESTRIAN SURFACE
- DIRECTION OF CONSTRUCTION AND LOCAL TRAFFIC
- DIRECTION OF PEDESTRIAN ACCESS
- FENCE SAFETY

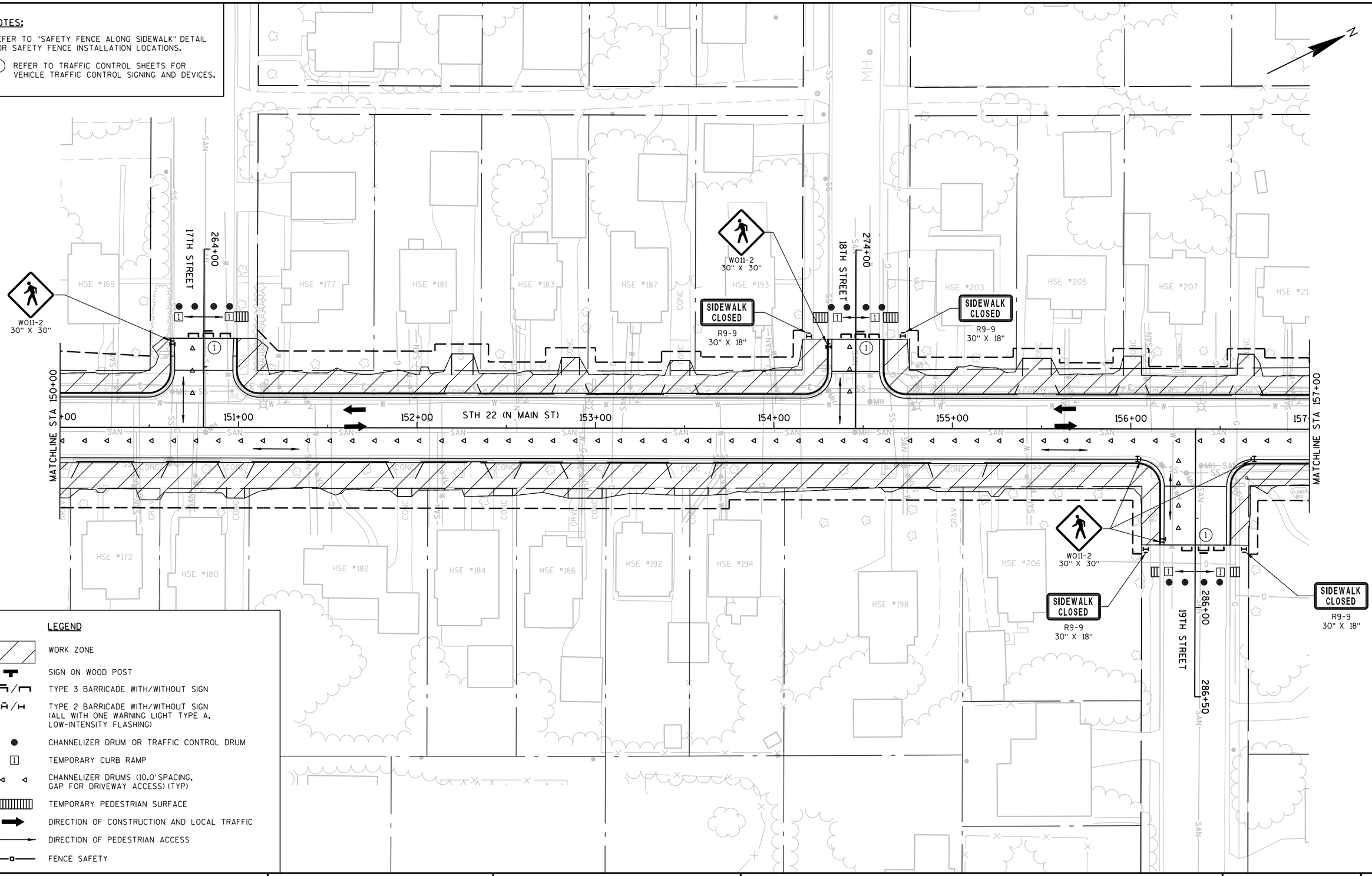
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PEDESTRIAN ACCESS STAGING (STAGE 2)	SHEET 112	E

2

NOTES:

REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

(1) REFER TO TRAFFIC CONTROL SHEETS FOR VEHICLE TRAFFIC CONTROL SIGNING AND DEVICES.



LEGEND

- WORK ZONE
- SIGN ON WOOD POST
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- DIRECTION OF CONSTRUCTION AND LOCAL TRAFFIC
- DIRECTION OF PEDESTRIAN ACCESS
- FENCE SAFETY

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PEDESTRIAN ACCESS STAGING (STAGE 2)	SHEET 113 E

2

NOTES:

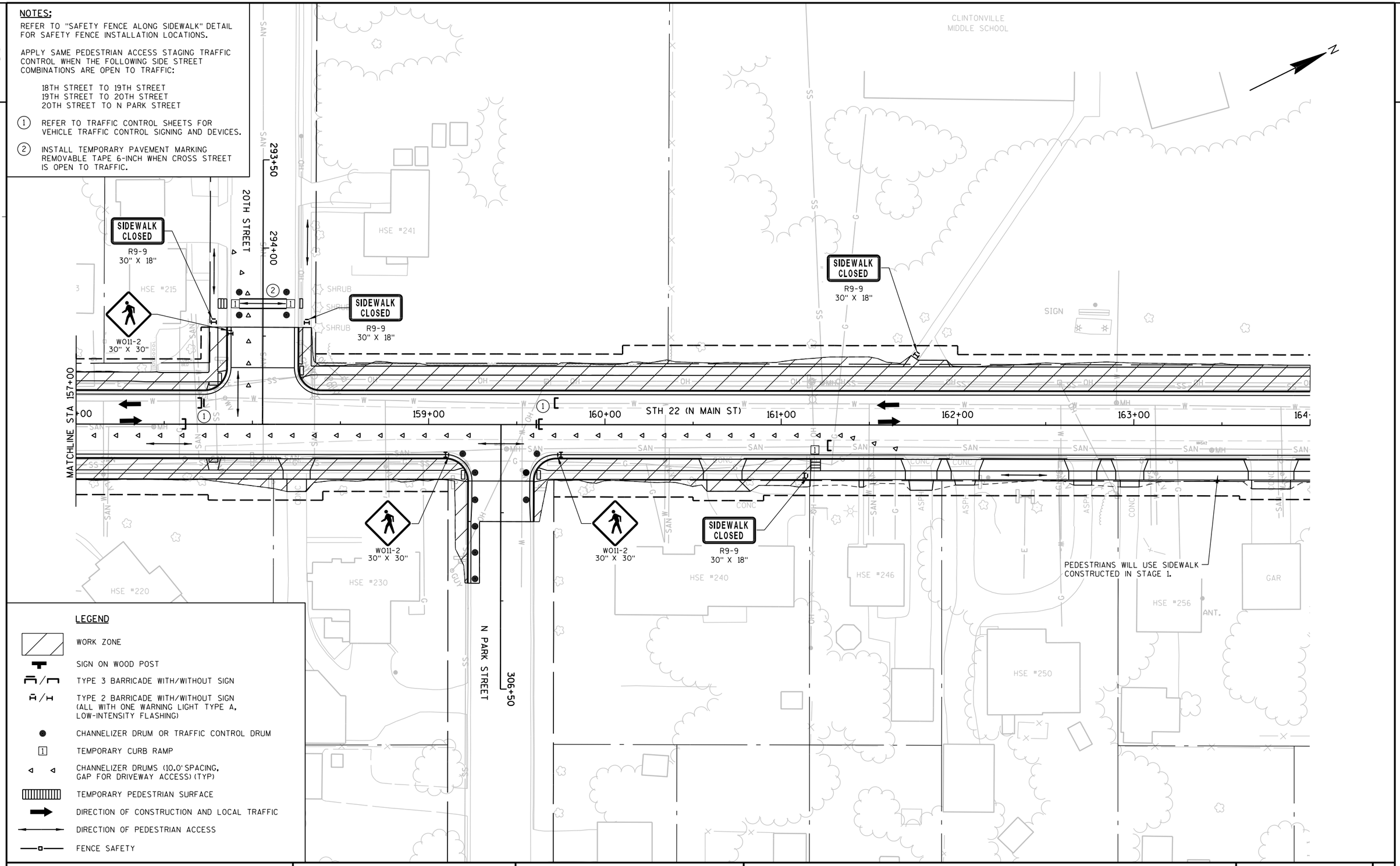
REFER TO "SAFETY FENCE ALONG SIDEWALK" DETAIL FOR SAFETY FENCE INSTALLATION LOCATIONS.

APPLY SAME PEDESTRIAN ACCESS STAGING TRAFFIC CONTROL WHEN THE FOLLOWING SIDE STREET COMBINATIONS ARE OPEN TO TRAFFIC:

18TH STREET TO 19TH STREET
19TH STREET TO 20TH STREET
20TH STREET TO N PARK STREET

(1) REFER TO TRAFFIC CONTROL SHEETS FOR VEHICLE TRAFFIC CONTROL SIGNING AND DEVICES.

(2) INSTALL TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 6-INCH WHEN CROSS STREET IS OPEN TO TRAFFIC.



LEGEND

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- SIGN ON WOOD POST
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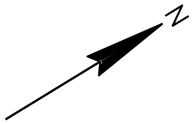
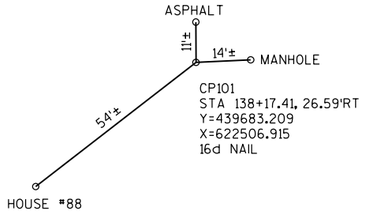
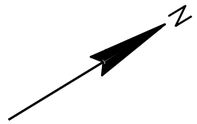
- TEMPORARY PEDESTRIAN SURFACE
- DIRECTION OF CONSTRUCTION AND LOCAL TRAFFIC
- DIRECTION OF PEDESTRIAN ACCESS
- FENCE SAFETY

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PEDESTRIAN ACCESS STAGING (STAGE 2 - 20TH ST/N PARK ST OPEN)	SHEET 114	E

2

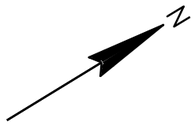


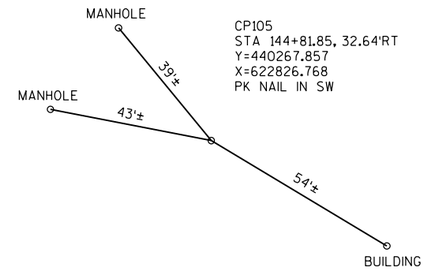


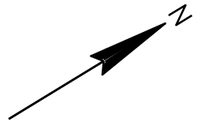


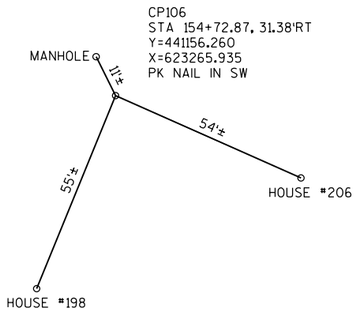
CP104
STA 141+79.14, 33.00'RT
Y=439996.504
X=622692.599
REBAR R/W

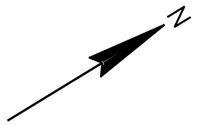
2

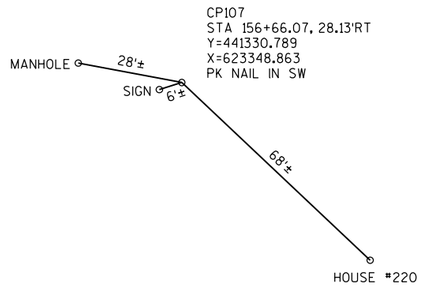




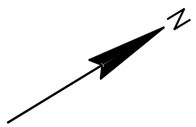




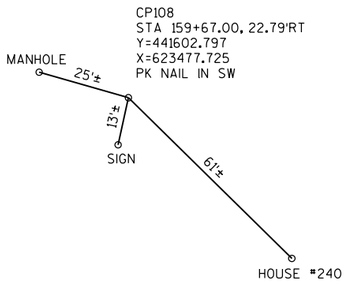


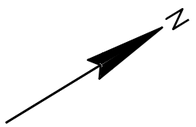


PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	SURVEY TIES	SHEET 115	E

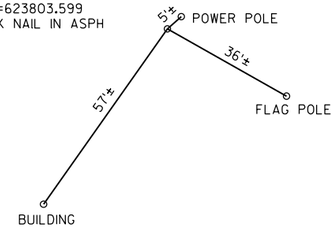


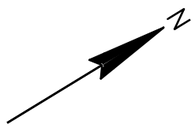
CP108
STA 159+67.00, 22.79'RT
Y=441602.797
X=623477.725
PK NAIL IN SW

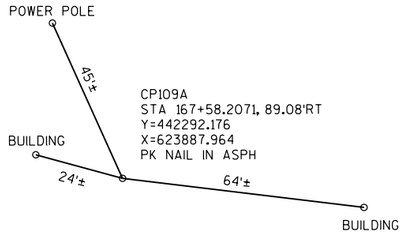


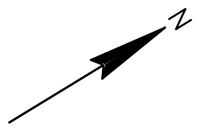


CP109
STA 166+74.83, 35.77'RT
Y=442231.288
X=623803.599
PK NAIL IN ASPH

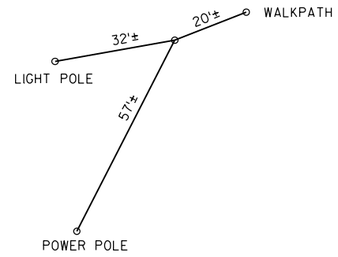


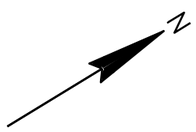




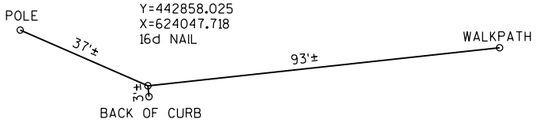


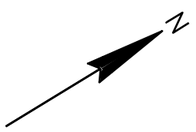
CP112
STA 161+49.36, 27.20'LT
Y=441788.394
X=623513.889
PK NAIL IN SW



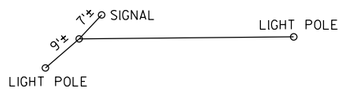


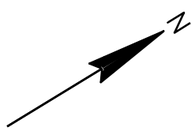
CP113
STA 173+4592, 23.83'LT
Y=442858.025
X=624047.718
16d NAIL



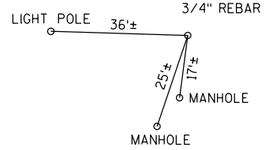


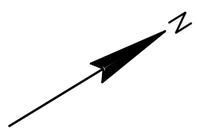
CP200
STA 132+94.60, 35.6'LT
Y=438501.181
X=621712.507
3/4" REBAR

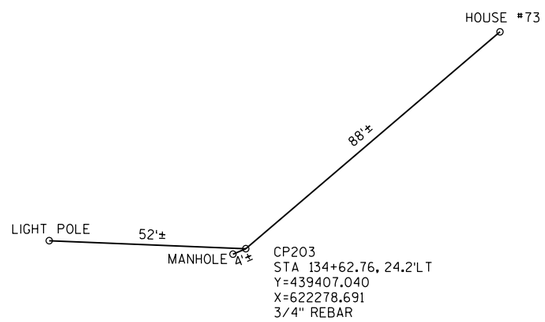




CP202
STA 130+3.39, 28.8'RT
Y=438988.456
X=622082.768
3/4" REBAR

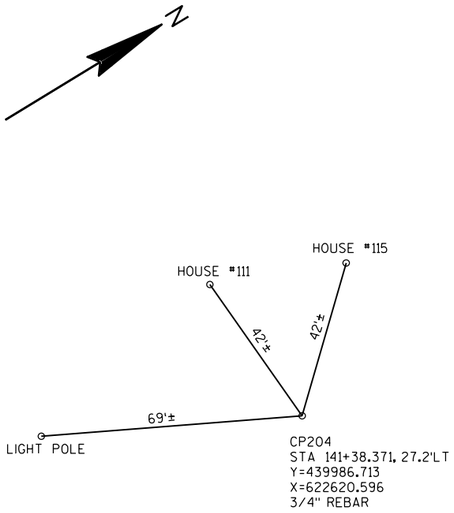


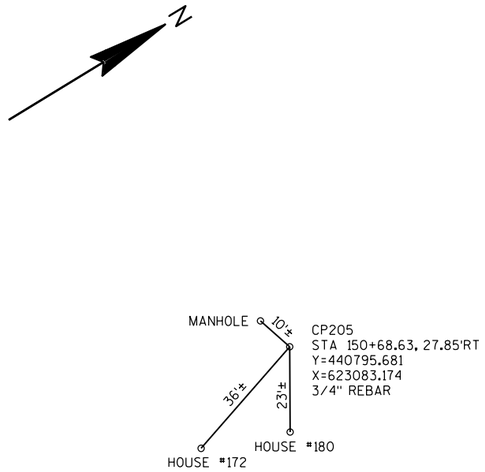


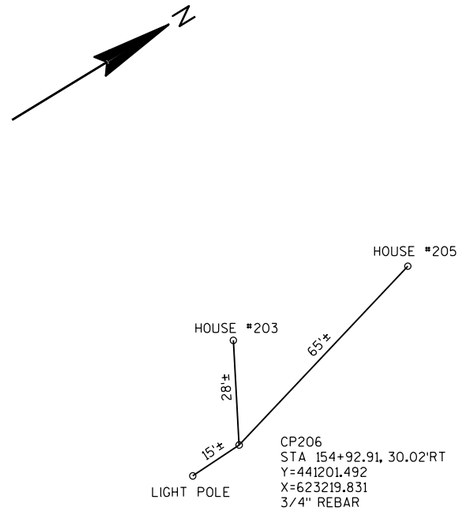


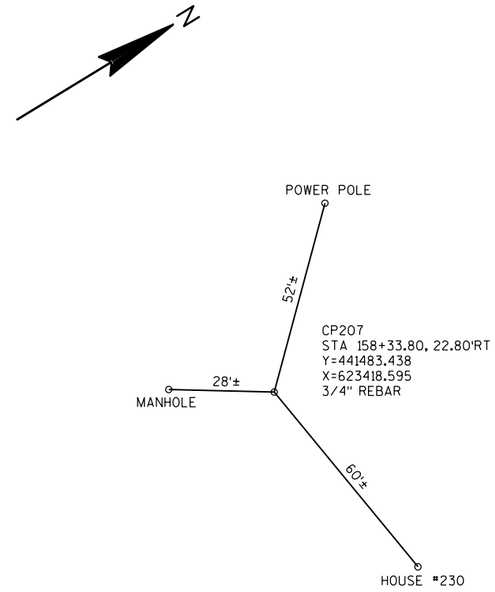
CP203
STA 134+62.76, 24.2'LT
Y=439407.040
X=622278.691
3/4" REBAR

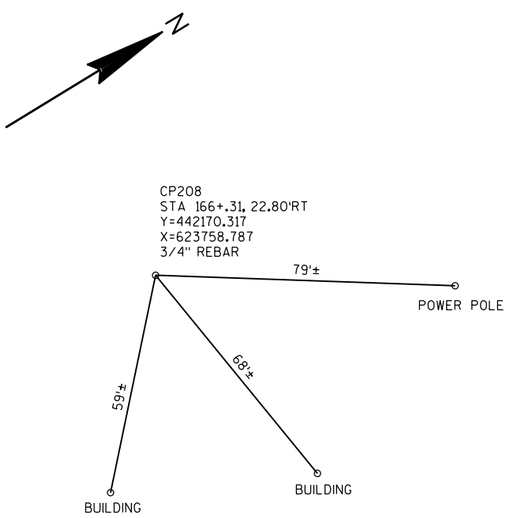
PROJECT NO:6250-01-78	HWY:STH 22	COUNTY:WAUPACA	SURVEY TIES	SHEET 116	E

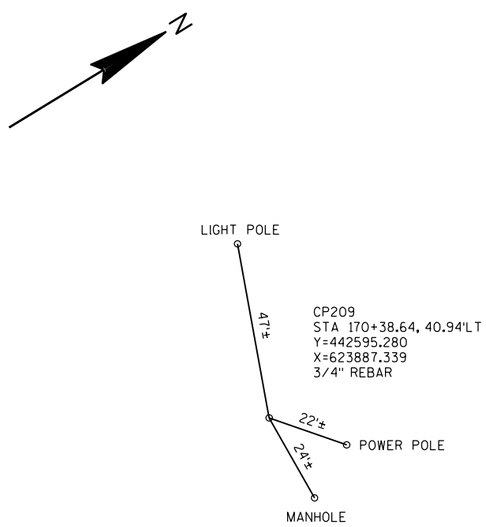


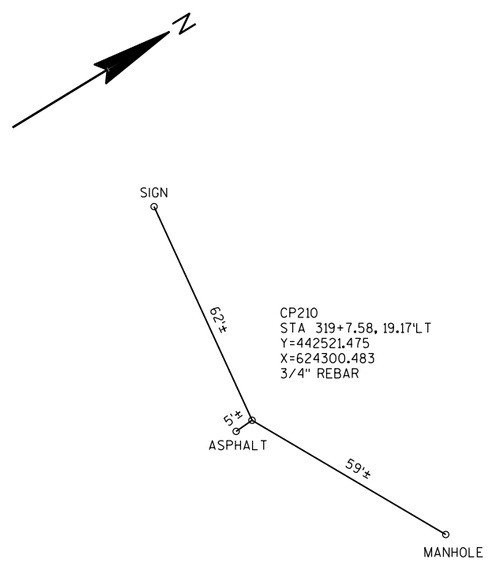


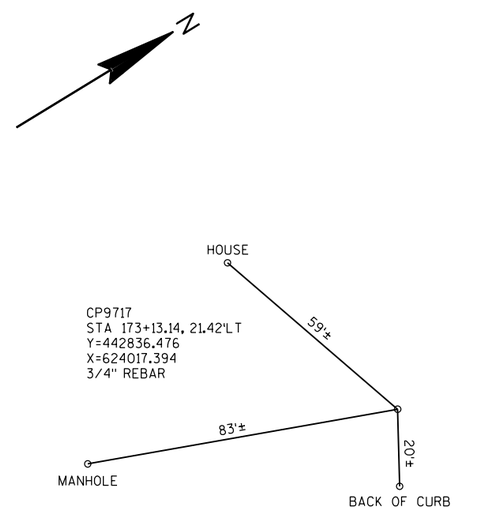












PROJECT NO:6250-01-78	HWY:STH 22	COUNTY:WAUPACA	SURVEY TIES	SHEET 117	E

2

STA 130+04.73 STH 22=
STA 215+00.00 W 13TH STREET
Y=439003.500
X=622060.667

POT STA 213+50.00
Y=439081.290
X=621932.414

213+50
S 58°45'42" E
13TH ST

POT STA 223+50.00
Y=439451.196
X=622158.310

223+50
S 58°37'01" E

STA 134+37.78 STH 22 =
STA 225+00.00 W 14TH ST
Y=439373.082
X=622286.365

PC STA 140+37.83

130+00

135+00

N 31°24'42" E

STH 22

140+00

PT STA 140+67.70

STA 142+34.66 STH 22 =
STA 245+00.00 16TH ST
Y=440060.909
X=622687.707

POT STA 254+00.00
Y=440308.206
X=622698.727

254+00
S 63°41'36" E
HARRIET ST

145+00

N 26°22'39" E

POT STA 264+00.00
Y=440863.271
X=622973.990

264+00
S 63°28'21" E
17TH ST

150+00

POT STA 274+00.00
Y=441190.417
X=623136.226

274+00
S 63°35'20" E
18TH ST

155+00

STA 156+36.28 STH 22 =
STA 285+00.00 19TH ST
Y=441316.6070
X=623310.4272

286+50
S 63°30'54" E
19TH ST

MATCHLINE STA 157+00

PI 130+00.51
DELTA=0°01'48" RT
Y=438999.893
X=622058.464

BEGIN PROJECT
STA 130+50.00

STA 134+37.11 STH 22 =
STA 225+00.00 E 14TH ST
Y=439372.509
X=622286.015

226+50
S 58°24'46" E
14TH ST

POT STA 226+50.00
Y=439293.940
X=622413.792

CURVE A
DELTA= 5°02'03.41" LT
T=14.95'
L=29.87'
R=340.00'
PC STA 140+37.83
Y=439885.1885
X=622599.1009
PI STA 140+52.78
Y=439897.945
X=622606.891
PT STA 140+67.70
Y=439911.3351
X=622613.5314
SE=NA

CURVE A

POT STA 236+00.00
Y=439868.619
X=622703.551

236+00
S 58°25'32" E
15TH ST

STA 140+78.08 STH 22 =
STA 235+00.00 15TH ST
Y=439920.632
X=622618.142

PC STA 245+32.19
CURVE B
PT STA 246+26.34
16TH ST
N 89°24'14" E

248+00

POT STA 248+00.00
Y=440027.606
X=622981.130

STA 144+60.44 STH 22 =
STA 255+00.00 HARRIET ST
Y=440263.186
X=622788.019

CURVE B
DELTA= 26°58'15.93" LT.
T=47.96'
L=94.15'
R=200.00'
PC STA 245+32.19
Y=440046.607
X=622716.550
PI STA 245+80.16
Y=440025.300
X=622759.520
PT STA 246+26.34
Y=440025.799
X=622807.480

STA 150+80.41 STH 22 =
STA 265+00.00 17TH ST
Y=440818.608
X=623063.462

STA 154+45.78 STH 22 =
STA 275+00.00 18TH ST
Y=441145.936
X=623225.789

POT STA 286+50.00
Y=441249.713
X=623444.685

POT STA 127+00.00
Y=438743.344
X=621901.977

N

POT STA 311+42.79
Y=442560.377
X=623546.811

311+43

N 89°12'21" E

W GREEN TREE RD

PC STA 313+26.38

STA 169+83.41 STH 22 =
STA 315+00.00 W GREEN TREE RD
Y=442527.810
X=623899.433

PI 176+38.40
DELTA=0°01'06" RT
Y=443110.0800
X=624199.3000

185+00

180+00

N 26°23'36" E

POT STA 185+00.00
Y=443881.867
X=624582.306

END PROJECT
STA 182+86.82

POT STA 293+50.00
Y=441535.309
X=623251.453

293+50
S 63°30'44" E
20TH ST

MATCHLINE STA 157+00

STA 159+41.01 STH 22 =
STA 305+00.00 N PARK ST
Y=441589.627
X=623445.766

PI 168+15.31
DELTA=3°48'51" RT
Y=442377.188
X=623824.806

CURVE C

S 72°38'37" E

170+00

N 27°44'54" E

N 26°21'23" E

175+00

N 26°22'29" E

STH 22

PT STA 314+34.08

PI 174+00.00
DELTA=1°22'24" LT
Y=442896.493
X=624093.392

160+00

165+00

N 26°21'23" E

N 22°32'32" E

STH 22

PI 166+64.98
DELTA=3°48'51" LT
Y=442238.341
X=623767.174

PI 169+83.41
DELTA=1°23'31" RT
Y=442527.8102
X=623899.4326

PC STA 315+76.31

PT STA 316+99.21

CURVE D

S 72°38'37" E

PI 158+05.73
DELTA=0°01'16" LT
Y=441468.408
X=623385.708

306+50
S 63°35'37" E
N PARK ST

POT STA 306+50.00
Y=441522.917
X=623580.116

STA 158+05.73 STH 22 =
STA 295+00.00 20TH ST
Y=441468.408
X=623385.708

CURVE C
DELTA= 18°09'01.85" RT
T=54.31'
L=107.71'
R=340.00'
PC STA 313+26.38
Y=442562.922
X=623730.380
PI STA. 313+80.69
Y=442563.674
X=623784.683
PT STA 314+34.08
Y=442547.474
X=623836.519

CURVE D
DELTA= 20°42'38.15" LT
T=62.13'
L=122.90'
R=340.00'
PC STA 315+76.31
Y=442505.046
X=623972.269
PI STA 316+38.44
Y=442486.512
X=624031.568
PT STA 316+99.21
Y=442490.147
X=624093.589

STH 156

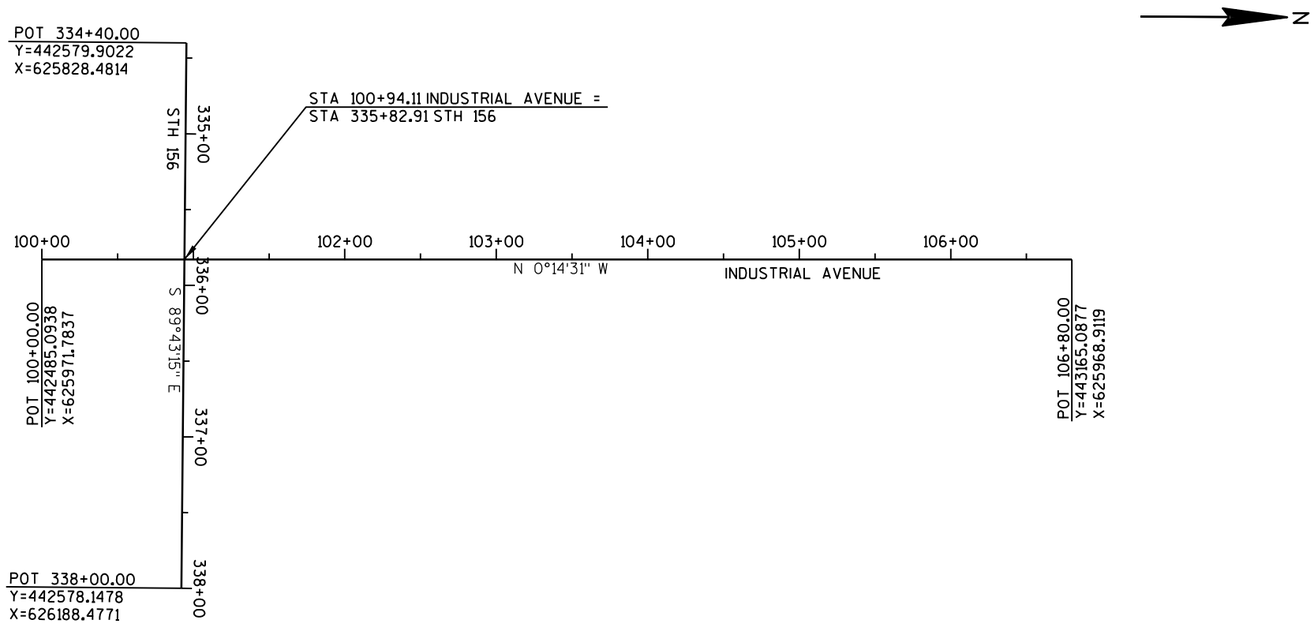
N 86°38'05" E

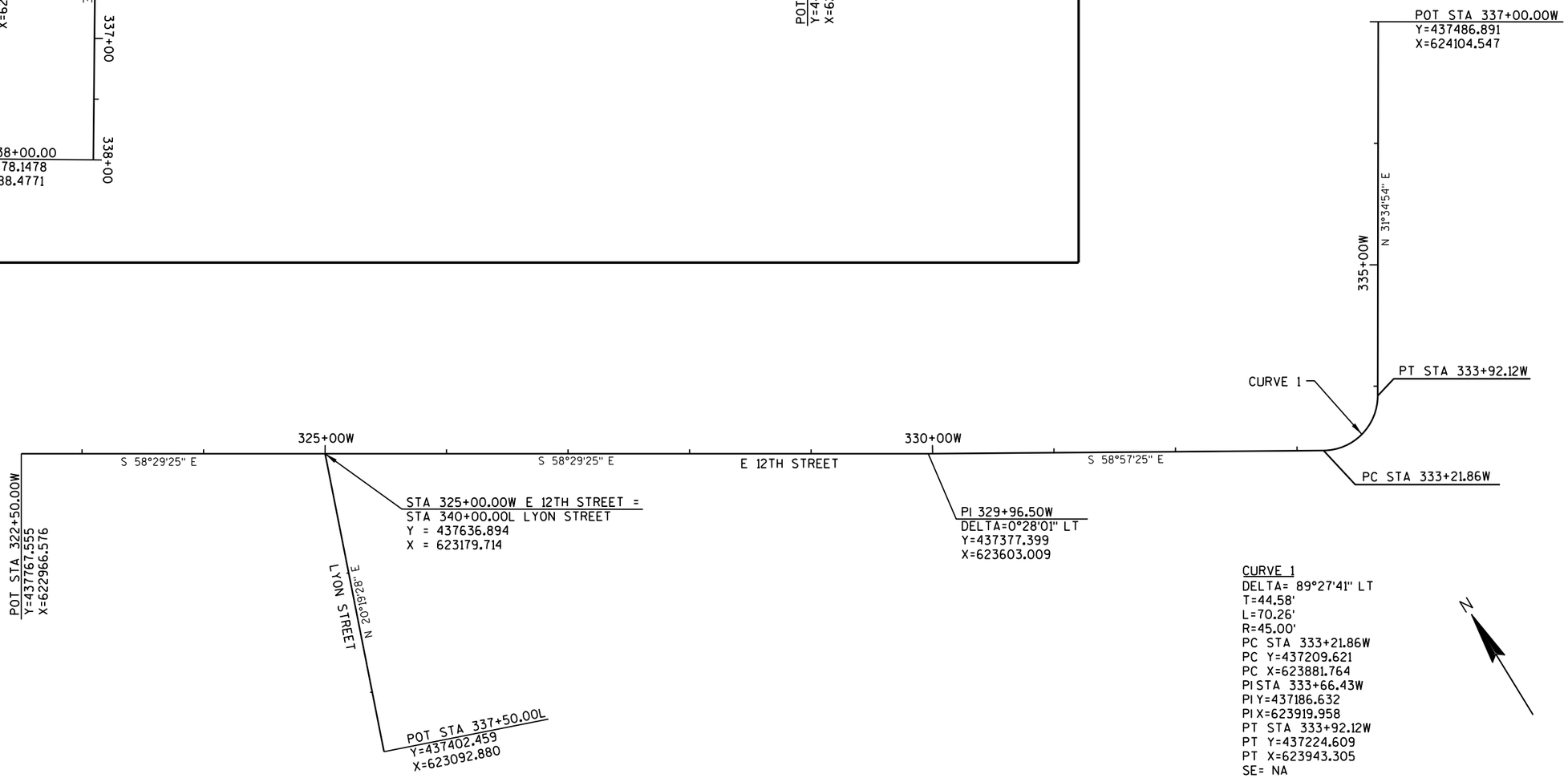
320+00

321+88

POT STA 321+88.33
Y=442518.766
X=624581.876

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	ALIGNMENT	SHEET 118	E





PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	ALIGNMENT (DETOUR ROUTE)	SHEET 119	E

DATE 03MAY16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6250-01-78 QUANTITY
0010	201.0105	Clearing	STA	12.000	12.000
0020	201.0120	Clearing	ID	1,339.000	1,339.000
0030	201.0205	Grubbing	STA	12.000	12.000
0040	201.0220	Grubbing	ID	1,339.000	1,339.000
0050	203.0100	Removing Small Pipe Culverts	EACH	3.000	3.000
0060	204.0100	Removing Pavement	SY	19,519.000	19,519.000
0070	204.0120	Removing Asphaltic Surface Milling	SY	851.000	851.000
0080	204.0150	Removing Curb & Gutter	LF	846.000	846.000
0090	204.0155	Removing Concrete Sidewalk	SY	4,627.000	4,627.000
0100	204.0195	Removing Concrete Bases	EACH	16.000	16.000
0110	204.0210	Removing Manholes	EACH	18.000	18.000
0120	204.0220	Removing Inlets	EACH	26.000	26.000
0130	204.0245	Removing Storm Sewer (size) 01. 8-Inch	LF	37.000	37.000
0140	204.0245	Removing Storm Sewer (size) 02. 10-Inch	LF	104.000	104.000
0150	204.0245	Removing Storm Sewer (size) 03. 12-Inch	LF	2,775.000	2,775.000
0160	204.0245	Removing Storm Sewer (size) 04. 15-Inch	LF	1,222.000	1,222.000
0170	204.0245	Removing Storm Sewer (size) 05. 18-inch	LF	27.000	27.000
0180	204.0245	Removing Storm Sewer (size) 06. 24-inch	LF	537.000	537.000
0190	205.0100	Excavation Common	CY	29,597.000	29,597.000
0200	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	100.000	100.000
0220	213.0100	Finishing Roadway (project) 01. 6250-01-78	EACH	1.000	1.000
0230	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,278.000	2,278.000
0240	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	14,146.000	14,146.000
0250	312.0110	Select Crushed Material	TON	13,791.000	13,791.000
0260	415.0085	Concrete Pavement 8 1/2-Inch	SY	18,295.000	18,295.000
0270	416.0160	Concrete Driveway 6-Inch	SY	2,332.000	2,332.000
0280	416.0610	Drilled Tie Bars	EACH	52.000	52.000
0290	416.0620	Drilled Dowel Bars	EACH	14.000	14.000
0300	440.4410	Incentive IRI Ride	DOL	4,000.000	4,000.000
0310	455.0605	Tack Coat	GAL	568.000	568.000
0320	460.2000	Incentive Density HMA Pavement	DOL	750.000	750.000
0330	460.6223	HMA Pavement 3 MT 58-28 S	TON	205.000	205.000
0340	460.6224	HMA Pavement 4 MT 58-28 S	TON	966.000	966.000
0350	465.0105	Asphaltic Surface	TON	260.000	260.000
0360	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	1.000	1.000
0370	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	1.000	1.000
0380	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	2.000	2.000
0390	522.1021	Apron Endwalls for Culvert Pipe Reinforced Concrete 21-Inch	EACH	1.000	1.000
0400	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	732.000	732.000
0410	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	8,473.000	8,473.000
0420	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	970.000	970.000
0430	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	318.000	318.000
0440	601.0600	Concrete Curb Pedestrian	LF	170.000	170.000
0450	602.0405	Concrete Sidewalk 4-Inch	SF	38,614.000	38,614.000
0460	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	554.000	554.000
0470	603.8000	Concrete Barrier Temporary Precast Delivered	LF	220.000	220.000

DATE 03MAY16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6250-01-78 QUANTITY
0480	603.8125	Concrete Barrier Temporary Precast Installed	LF	220.000	220.000
0490	606.0100	Riprap Light	CY	38.000	38.000
0500	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	591.000	591.000
0510	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	126.000	126.000
0520	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	693.000	693.000
0530	608.0321	Storm Sewer Pipe Reinforced Concrete Class III 21-Inch	LF	820.000	820.000
0540	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	1,725.000	1,725.000
0550	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	2,059.000	2,059.000
0560	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	427.000	427.000
0570	611.0530	Manhole Covers Type J	EACH	21.000	21.000
0590	611.0612	Inlet Covers Type C	EACH	1.000	1.000
0600	611.0624	Inlet Covers Type H	EACH	39.000	39.000
0610	611.0627	Inlet Covers Type HM	EACH	1.000	1.000
0620	611.0639	Inlet Covers Type H-S	EACH	8.000	8.000
0630	611.0666	Inlet Covers Type Z	EACH	3.000	3.000
0640	611.1003	Catch Basins 3-FT Diameter	EACH	1.000	1.000
0650	611.1004	Catch Basins 4-FT Diameter	EACH	7.000	7.000
0660	611.1005	Catch Basins 5-FT Diameter	EACH	5.000	5.000
0670	611.1230	Catch Basins 2x3-FT	EACH	34.000	34.000
0680	611.2004	Manholes 4-FT Diameter	EACH	11.000	11.000
0690	611.2005	Manholes 5-FT Diameter	EACH	7.000	7.000
0700	611.2006	Manholes 6-FT Diameter	EACH	4.000	4.000
0710	611.2007	Manholes 7-FT Diameter	EACH	1.000	1.000
0720	611.2055	Manholes 5x5-FT	EACH	2.000	2.000
0730	611.8110	Adjusting Manhole Covers	EACH	2.000	2.000
0740	611.8115	Adjusting Inlet Covers	EACH	1.000	1.000
0750	612.0106	Pipe Underdrain 6-Inch	LF	7,848.000	7,848.000
0770	616.0700.S	Fence Safety	LF	6,700.000	6,700.000
0780	619.1000	Mobilization	EACH	0.750	0.750
0790	620.0300	Concrete Median Sloped Nose	SF	210.000	210.000
0800	621.0100	Landmark Reference Monuments	EACH	1.000	1.000
0810	624.0100	Water	MGAL	463.000	463.000
0820	625.0100	Topsoil	SY	14,515.000	14,515.000
0830	628.1504	Silt Fence	LF	1,950.000	1,950.000
0840	628.1520	Silt Fence Maintenance	LF	3,900.000	3,900.000
0850	628.1905	Mobilizations Erosion Control	EACH	8.000	8.000
0860	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0870	628.2008	Erosion Mat Urban Class I Type B	SY	14,330.000	14,330.000
0880	628.6510	Soil Stabilizer Type B	ACRE	0.020	0.020
0890	628.7005	Inlet Protection Type A	EACH	47.000	47.000
0900	628.7010	Inlet Protection Type B	EACH	1.000	1.000
0910	628.7015	Inlet Protection Type C	EACH	46.000	46.000
0920	628.7504	Temporary Ditch Checks	LF	20.000	20.000
0930	628.7555	Culvert Pipe Checks	EACH	15.000	15.000
0940	630.0140	Seeding Mixture No. 40	LB	275.000	275.000
0950	630.0200	Seeding Temporary	LB	5.000	5.000
0960	631.0300	Sod Water	MGAL	335.000	335.000

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DATE 03MAY16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6250-01-78 QUANTITY
0970	631.1100	Sod Erosion Control	SY	31.000	31.000
0980	632.0101	Trees (species) (size) (root) 01. Amer Mackia, B&B, 1.5" Cal.	EACH	5.000	5.000
0990	632.0101	Trees (species) (size) (root) 02. Callery Pear, B&B, 1.5" Cal.	EACH	6.000	6.000
1000	632.0101	Trees (species) (size) (root) 03. Flowering Crab, B&B, 1.5" Cal.	EACH	6.000	6.000
1010	632.0101	Trees (species) (size) (root) 04. Little Leaf Linden Summer Sprite, B&B, 1.5" Cal.	EACH	2.000	2.000
1020	632.0101	Trees (species) (size) (root) 05. Pekin Lilac, B&B, 1.5" Cal.	EACH	7.000	7.000
1030	632.0101	Trees (species) (size) (root) 06. Japanese Tree Lilac, B&B, 1.5" Cal.	EACH	7.000	7.000
1040	632.0101	Trees (species) (size) (root) 07. Corktree, B&B, 2" Cal.	EACH	7.000	7.000
1050	632.0101	Trees (species) (size) (root) 08. Elm, B&B, 2" Cal.	EACH	7.000	7.000
1060	632.0101	Trees (species) (size) (root) 09. Freeman Maple, B&B, 2" Cal.	EACH	5.000	5.000
1070	632.0101	Trees (species) (size) (root) 10. Ginkgo, CG, 2" Cal.	EACH	5.000	5.000
1080	632.0101	Trees (species) (size) (root) 11. Hackberry, B&B, 2" Cal.	EACH	5.000	5.000
1090	632.0101	Trees (species) (size) (root) 12. American Linden/Basswood, B&B, 2" Cal.	EACH	8.000	8.000
1100	632.0101	Trees (species) (size) (root) 13. Littleleaf Linden, B&B, 1.5" Cal.	EACH	4.000	4.000
1110	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	45.000	45.000
1120	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	17.000	17.000
1130	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	3.000	3.000
1140	634.0808	Posts Tubular Steel 2x2-Inch X 8-FT	EACH	2.000	2.000
1150	634.0811	Posts Tubular Steel 2x2-Inch X 11-FT	EACH	3.000	3.000
1160	634.0812	Posts Tubular Steel 2x2-Inch X 12-FT	EACH	5.000	5.000
1170	637.2210	Signs Type II Reflective H	SF	482.220	482.220
1180	637.2230	Signs Type II Reflective F	SF	74.010	74.010
1190	638.2102	Moving Signs Type II	EACH	1.000	1.000
1200	638.2602	Removing Signs Type II	EACH	45.000	45.000
1210	638.3000	Removing Small Sign Supports	EACH	46.000	46.000
1220	642.5201	Field Office Type C	EACH	1.000	1.000
1230	643.0100	Traffic Control (project) 01. 6250-01-78	EACH	1.000	1.000
1240	643.0300	Traffic Control Drums	DAY	65,463.000	65,463.000
1250	643.0410	Traffic Control Barricades Type II	DAY	5,364.000	5,364.000
1260	643.0420	Traffic Control Barricades Type III	DAY	17,467.000	17,467.000
1270	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	7.000	7.000
1280	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	7.000	7.000
1290	643.0705	Traffic Control Warning Lights Type A	DAY	13,354.000	13,354.000
1300	643.0900	Traffic Control Signs	DAY	12,812.000	12,812.000
1310	643.0920	Traffic Control Covering Signs Type II	EACH	4.000	4.000
1320	643.2000	Traffic Control Detour (project) 01. 6250-01-78	EACH	1.000	1.000
1330	643.3000	Traffic Control Detour Signs	DAY	32,608.000	32,608.000
1340	645.0112	Geotextile Type DF Schedule B	SY	3,489.000	3,489.000
1350	645.0130	Geotextile Type R	SY	153.000	153.000

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DATE 03MAY16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6250-01-78 QUANTITY
1360	646.0106	Pavement Marking Epoxy 4-Inch	LF	20,064.000	20,064.000
1370	646.0126	Pavement Marking Epoxy 8-Inch	LF	399.000	399.000
1380	646.0600	Removing Pavement Markings	LF	487.000	487.000
1390	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	2.000	2.000
1400	647.0176	Pavement Marking Arrows Epoxy Type 3	EACH	2.000	2.000
1410	647.0206	Pavement Marking Arrows Bike Lane Epoxy	EACH	38.000	38.000
1420	647.0256	Pavement Marking Symbols Epoxy	EACH	4.000	4.000
1430	647.0306	Pavement Marking Symbols Bike Lane Epoxy	EACH	38.000	38.000
1440	647.0356	Pavement Marking Words Epoxy	EACH	1.000	1.000
1450	647.0406	Pavement Marking Words Bike Lane Epoxy	EACH	3.000	3.000
1460	647.0456	Pavement Marking Curb Epoxy	LF	110.000	110.000
1470	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	327.000	327.000
1480	647.0606	Pavement Marking Island Nose Epoxy	EACH	3.000	3.000
1490	647.0656	Pavement Marking Parking Stall Epoxy	LF	312.000	312.000
1500	647.0706	Pavement Marking Diagonal Epoxy 6-Inch	LF	48.000	48.000
1510	647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	420.000	420.000
1520	647.0766	Pavement Marking Crosswalk Epoxy 6-Inch	LF	1,479.000	1,479.000
1530	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	1,196.000	1,196.000
1540	649.0600	Temporary Pavement Marking Removable Tape 6-Inch	LF	428.000	428.000
1550	649.1200	Temporary Pavement Marking Stop Line Removable Tape 18-Inch	LF	69.000	69.000
1560	650.4000	Construction Staking Storm Sewer	EACH	72.000	72.000
1570	650.4500	Construction Staking Subgrade	LF	6,069.000	6,069.000
1580	650.5000	Construction Staking Base	LF	1,440.000	1,440.000
1590	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	1,388.000	1,388.000
1600	650.7000	Construction Staking Concrete Pavement	LF	4,629.000	4,629.000
1610	650.8000	Construction Staking Resurfacing Reference	LF	222.000	222.000
1620	650.8500	Construction Staking Electrical Installations (project) 01. 6250-01-78	LS	1.000	1.000
1630	650.9910	Construction Staking Supplemental Control (project) 01. 6250-01-78	LS	1.000	1.000
1640	650.9920	Construction Staking Slope Stakes	LF	6,069.000	6,069.000
1650	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	4,375.000	4,375.000
1660	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	755.000	755.000
1670	653.0140	Pull Boxes Steel 24x42-Inch	EACH	15.000	15.000
1680	654.0102	Concrete Bases Type 2	EACH	4.000	4.000
1690	654.0105	Concrete Bases Type 5	EACH	19.000	19.000
1700	654.0224	Concrete Control Cabinet Bases Type L24	EACH	1.000	1.000
1710	655.0610	Electrical Wire Lighting 12 AWG	LF	3,450.000	3,450.000
1720	655.0625	Electrical Wire Lighting 6 AWG	LF	25,487.000	25,487.000
1730	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. LCB 100	LS	1.000	1.000
1740	659.2124	Lighting Control Cabinets 120/240 24-Inch	EACH	1.000	1.000
1750	690.0150	Sawing Asphalt	LF	1,792.000	1,792.000
1760	690.0250	Sawing Concrete	LF	881.000	881.000
1770	715.0415	Incentive Strength Concrete Pavement	DOL	18,295.000	18,295.000
1780	ASP.1T0A	On-the-Job Training Apprentice at $5. 00/HR	HRS	2,400.000	2,400.000

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DATE 03MAY16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6250-01-78 QUANTITY
1790	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,980.000	1,980.000
1800	SPV.0030	Special 01. Fertilizer For Lawn Type Turf	CWT	10.500	10.500
1810	SPV.0035	Special 01. Permanent Ditch Checks	CY	10.000	10.000
1820	SPV.0060	Special 01. Manholes Split Flow	EACH	1.000	1.000
1830	SPV.0060	Special 02. Posts Steel 2 3/8-Inch Diameter X 14-Ft	EACH	10.000	10.000
1840	SPV.0060	Special 03. Tree Root Cutting And Removal	EACH	51.000	51.000
1850	SPV.0060	Special 04. Remove Existing Lighting Control Cabinet	EACH	1.000	1.000
1860	SPV.0060	Special 05. Salvage Lighting Unit	EACH	16.000	16.000
1870	SPV.0060	Special 06. Transformer Bases Breakaway 11 1/2-Inch Bolt Circle Brown	EACH	23.000	23.000
1880	SPV.0060	Special 07. Poles Type 5 Aluminum Brown	EACH	23.000	23.000
1890	SPV.0060	Special 08. Luminaire Arms Single Member 4 1/2-Inch Clamp 6-Ft Brown	EACH	25.000	25.000
1900	SPV.0060	Special 09. Luminaires Utility LED Category B Brown	EACH	25.000	25.000
1910	SPV.0060	Special 10. Reestablish Section Corner Monuments	EACH	1.000	1.000
1920	SPV.0060	Special 11. Temporary Curb Ramp	EACH	55.000	55.000
2220	SPV.0075	Special 01. Street Sweeping	HRS	124.000	124.000
2230	SPV.0090	Special 01. Concrete Curb & Gutter 24-Inch Type D	LF	100.000	100.000
2240	SPV.0090	Special 02. Driveway Gutter Type A	LF	26.000	26.000
2250	SPV.0090	Special 03. Storm Sewer Pipe PVC 8-Inch	LF	19.000	19.000
2260	SPV.0090	Special 04. Storm Sewer Pipe PVC 10-Inch	LF	13.000	13.000
2270	SPV.0090	Special 05. Storm Sewer Pipe PVC 12-Inch	LF	52.000	52.000
2440	SPV.0105	Special 01. Research And Locate Existing Property Monuments	LS	1.000	1.000
2450	SPV.0105	Special 02. Verify And Replace Existing Property Monuments	LS	1.000	1.000
2460	SPV.0105	Special 03. Concrete Pavement Joint Layout	LS	1.000	1.000
2470	SPV.0105	Special 04. Landscape Planting Surveillance And Care Cycles Special	LS	1.000	1.000
2480	SPV.0165	Special 01. Temporary Pedestrian Surface	SF	2,980.000	2,980.000
2490	SPV.0180	Special 01. Geogrid Reinforcement	SY	22,652.000	22,652.000
2500	SPV.0180	Special 02. Preparing Topsoil For Lawn Type Turf	SY	14,515.000	14,515.000

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CLEARING AND GRUBBING ITEMS

STATION - STATION	LOCATION	201.0105 CLEARING STA	201.0120 CLEARING ID	201.01205 GRUBBING STA	201.0220 GRUBBING ID
STH 22					
130+50 - 135+00	LT & RT		194		194
135+00 - 143+00	LT & RT		282.5		282.5
143+00 - 150+00	LT & RT		280.5		280.5
150+00 - 154+00	LT & RT		259		259
154+00 - 157+00	LT & RT		56		56
157+00 - 160+00	LT & RT		112		112
160+00 - 167+75	RT		155		155
165+00 - 170+00	LT	5		5	
179+00 - 183+00	RT	4		4	
GREEN TREE ROAD					
311+43 - 314+00	RT	3		3	
ITEM TOTAL		12	1339	12	1339

REMOVING SMALL PIPE CULVERTS

STATION - STATION	LOCATION	203.0100 EACH	REMARKS
GREEN TREE ROAD			
312+22 - 312+81	LT	1	8" CMP, INCLUDES REMOVAL OF APRON ENDWALLS
313+62 - 313+98	LT	1	8" CMP, INCLUDES REMOVAL OF APRON ENDWALLS
E 12TH STREET/SSGT WARREN HANSEN DRIVE			
333+76W	LT	1	8" CMP, INCLUDES REMOVAL OF APRON ENDWALLS
ITEM TOTAL		3	

REMOVING PAVEMENT

STATION - STATION	LOCATION	204.0100 SY	REMARKS
STH 22			
130+50 - 135+00	LT & RT	1862	MAINLINE PAVEMENT
130+50 - 135+00	LT & RT	130	DRIVEWAYS
135+00 - 143+00	LT & RT	3562	MAINLINE PAVEMENT
135+00 - 143+00	LT & RT	347	DRIVEWAYS
143+00 - 150+00	LT & RT	2870	MAINLINE PAVEMENT
143+00 - 150+00	LT & RT	343	DRIVEWAYS
150+00 - 154+00	LT & RT	1661	MAINLINE PAVEMENT
150+00 - 154+00	LT & RT	194	DRIVEWAYS
154+00 - 157+00	LT & RT	1331	MAINLINE PAVEMENT
154+00 - 157+00	LT & RT	99	DRIVEWAYS
157+00 - 160+00	LT & RT	1419	MAINLINE PAVEMENT
157+00 - 160+00	RT	24	DRIVEWAYS
160+00 - 167+75	LT & RT	3538	MAINLINE PAVEMENT
160+00 - 167+75	LT & RT	169	DRIVEWAYS
167+75 - 175+00	LT & RT	1939	MAINLINE PAVEMENT
175+00 - 182+87	LT & RT	31	DRIVEWAYS
ITEM TOTAL		19519	

REMOVING ASPHALTIC SURFACE MILLING

STATION - STATION	LOCATION	204.0120 SY
E 12TH STREET/SSGT WARREN HANSEN DRIVE		
332+69W - 334+91W	LT & RT	851
ITEM TOTAL		851

REMOVING CURB & GUTTER

STATION - STATION	LOCATION	204.0150 LF
14TH STREET		
224+25 -224+67	LT & RT	83
225+33 - 225+75	LT & RT	83
15TH STREET		
236+42 - 236+71	LT & RT	57
16TH STREET		
245+33 - 246+26	LT & RT	201
HARRIET STREET		
254+35 - 254+66	LT & RT	62
17TH STREET		
264+50 - 264+70	LT & RT	40
18TH STREET		
274+50 - 274+70	LT & RT	39
19TH STREET		
285+32 - 285+65	LT & RT	66
20TH STREET		
294+45 - 294+67	LT & RT	43
N. PARK STREET		
305+31 - 305+55	LT & RT	72
LYON STREET		
338+72L - 339+73L	LT	100
ITEM TOTAL		846

REMOVING CONCRETE SIDEWALK

STATION - STATION	LOCATION	204.0155 SY
STH 22		
130+50 - 135+00	LT & RT	563
135+00 - 143+00	LT & RT	1240
143+00 - 150+00	LT & RT	917
150+00 - 154+00	LT & RT	513
154+00 - 157+00	LT & RT	421
157+00 - 160+00	LT & RT	337
160+00 - 167+75	LT & RT	636
ITEM TOTAL		4627

LIGHTING REMOVAL ITEMS

STATION	LOCATION	204.0195 REMOVING CONCRETE BASES EACH	SPV.0060.05 SALVAGE LIGHTING UNIT EACH
STH 22			
132+15	LT	1	1
134+10	LT	1	1
135+85	LT	1	1
137+50	LT	1	1
139+40	LT	1	1
140+70	LT	1	1
142+15	LT	1	1
144+35	LT	1	1
146+00	LT	1	1
147+95	LT	1	1
149+50	LT	1	1
151+15	LT	1	1
152+95	LT	1	1
154+80	LT	1	1
156+40	LT	1	1
158+35	LT	1	1
ITEM TOTAL		**16**	**16**

REMOVING MANHOLES

STATION	LOCATION	204.0210 EACH
STH 22		
132+25	LT	1
134+59	LT	1
137+81	LT	1
140+90	LT	1
140+92	RT	1
142+25	LT	1
144+40	RT	1
145+70	RT	1
147+71	RT	1
147+73	LT	1
150+62	RT	1
150+63	LT	1
154+30	LT	1
154+69	RT	1
156+31	RT	1
157+80	RT	1
161+23	LT	1
170+36	LT	1
ITEM TOTAL		18

REMOVING INLETS

STATION	LOCATION	204.0220 EACH
STH 22		
134+22	LT	1
134+54	LT	1
134+61	RT	1
134+76	LT	1
137+81	LT	1
137+82	RT	1
140+91	LT	1
142+26	LT	1
142+36	RT	1
144+39	LT	1
144+40	RT	1
144+86	LT	1
147+71	LT	1
150+62	LT	1
150+96	LT	1
154+65	LT	1
156+17	RT	1
157+79	LT	1
158+27	LT	1
159+21	RT	1
165+00	LT	1
169+59	LT	1
170+29	LT	1
171+99	RT	1
173+18	LT	1
173+52	RT	1
ITEM TOTAL		26

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

REMOVING STORM SEWER

STATION - STATION	LOCATION	204.0245.01 8-INCH LF	204.0245.02 10-INCH LF	204.0245.03 12-INCH LF	204.0245.04 15-INCH LF	204.0245.05 18-INCH LF	204.0245.06 24-INCH LF	REMARKS
STH 22								
130+74 - 132+25	LT				151			
130+90	LT & RT		59					
132+25	LT			10				
132+25 - 134+59	LT				235			
134+22	LT		14					
134+54 + 134+59	LT		14					
134+59 - 134+76	LT		17					
134+59 - 134+61	LT & RT			44				
134+59 - 137+81	LT			321				
137+81 - 137+82	LT			6				
137+82	LT & RT			35				
137+81 - 140+90	LT			307				
140+90 - 140+92	LT			6				
140+92	LT & RT			39				
140+90 - 142+25	LT			135				
142+25 - 142+26	LT			6				
142+26 - 142+36	LT & RT			42				
142+36 - 144+40	RT			205				
144+40	RT			3				
144+40	LT & RT			37				
144+40	LT			47				
144+40 - 147+71	RT			331				
147+71 - 147+73	LT & RT			31				
147+71	RT			3				
147+71 - 150+62	RT			290				
150+62	RT			3				
150+62 - 150+63	LT & RT			37				
150+63 - 150+96	LT			33				
150+63	LT			30				
154+30	LT			29				
154+30 - 154+65	LT			34				
154+65 - 154+69	LT & RT			43				
154+69 - 156+17	RT			148				
156+17 - 156+31	RT			15				
156+31 - 157+80	RT			149				
157+80	LT & RT			42				
157+80 - 158+27	LT			49				
157+80 - 159+21	RT			141				
159+21	RT			58				
161+23	LT			14				
161+23 - 165+00	LT				377			
165+00 - 169+59	LT				459			
169+59	LT					27		INCLUDES REMOVAL OF APRON ENDWALL
169+59 - 170+36	LT						76	
170+36 - 170+45	LT	37						
170+29 - 170+36	LT			29				
170+36 - 171+99	LT & RT						167	
171+99 - 173+52	RT						154	
173+18 - 173+52	LT & RT			23				
173+52 - 174+91	RT						140	
ITEM TOTAL		37	104	2775	1222	27	537	

EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL

STATION - STATION	LOCATION	205.0501.S TON
STH 22		
139+75 - 140+50	RT	100
ITEM TOTAL		100

3

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

EARTHWORK SUMMARY

STATION - STATION	LOCATION	(1) 205.0100 EXCAVATION COMMON CY	(2) SALVAGED/ UNUSABLE PAVEMENT MATERIAL CY	(3) AVAILABLE MATERIAL CY	UNEXPANDED FILL CY	(4) EXPANDED FILL CY	(5) 208.0100 BORROW CY	(6) MASS ORDINATE CY	WASTE CY	REMARKS
STH 22										
130+50 - 135+00	LT & RT	1880	881	1000	11	15	0	985	985	
135+00 - 143+00	LT & RT	3763	1747	2016	22	28	0	1988	1988	
143+00 - 150+00	LT & RT	3041	1421	1619	10	12	0	1607	1607	
150+00 - 154+00	LT & RT	1909	818	1091	1	2	0	1089	1089	
154+00 - 157+00	LT & RT	1475	634	841	1	1	0	839	839	
157+00 - 160+00	LT & RT	1386	568	818	6	7	0	810	810	
160+00 - 167+75	LT & RT	3892	1427	2465	30	38	0	2427	2427	
167+75 - 175+00	LT & RT	3893	947	2946	85	110	0	2836	2836	
175+00 - 182+87	LT & RT	183	581	-399	244	317	0	-715	0	USE 715 CY OF MATERIAL FROM SECTION 167+75 - 175+00
14TH STREET										
224+25 - 224+79	LT & RT	125	14	111	0	0	0	111	111	
225+21 - 225+75	LT & RT	136	15	121	0	0	0	121	121	
15TH STREET										
235+22 - 235+58	LT & RT	104	11	93	0	0	0	93	93	
16TH STREET										
245+22 - 246+26	LT & RT	372	39	333	8	10	0	323	323	
HARRIET STREET										
254+35 - 254+79	LT & RT	101	9	91	0	0	0	91	91	
17TH STREET										
264+52 - 264+79	LT & RT	41	6	34	0	0	0	34	34	
18TH STREET										
274+50 - 274+79	LT & RT	67	5	62	0	0	0	62	62	
19TH STREET										
285+22 - 285+65	LT & RT	117	12	104	0	0	0	104	104	
20TH STREET										
294+45 - 294+79	LT & RT	74	9	65	0	0	0	65	65	
N. PARK STREET										
305+21 - 305+90	LT & RT	103	13	90	0	0	0	90	90	
GREEN TREE ROAD/STH 156										
311+90 - 314+69	LT & RT	2159	91	2068	62	80	0	1988	1988	
315+42 - 318+00	LT & RT	1633	88	1546	225	293	0	1253	1253	
LYON STREET										
338+73L - 339+73L	LT	23	19	3	0	0	0	3	3	
E 12TH STREET/SSGT WARREN HANSEN DRIVE										
332+70W - 334+50W	LT & RT	117	40	77	0	0	0	77	77	
INDUSTRIAL AVENUE										
101+05 - 102+70	LT & RT	43	0	43	5	7	0	37	37	PRIOR TO CLOSURE OF STH 22/STH 156 INTERSECTION
101+05 - 102+70	LT & RT	111	15	96	0	0	0	96	96	AFTER STH 22/STH 156 INTERSECTION IS REOPENED
TRAFFIC CONTROL										
130+50 - 165+00	LT & RT	2500								REMOVAL OF THE GRAVEL FOR TEMPORARY ACCESS
UNDISTRIBUTED	LT & RT	350								ESTIMATED EBS
ITEM TOTAL		29597	9411	17336	709	922	0	16414	17129	

(1) EXCAVATION COMMON, ITEM NUMBER 205.0100, IS THE TOTAL VOLUME OF CUT AND INCLUDES THE UNUSABLE PAVEMENT MATERIAL.
(2) SALVAGED/UNUSABLE MATERIAL IS INCLUDED IN THE EXCAVATION COMMON
(3) AVAILABLE MATERIAL = EXCAVATION COMMON - UNUSABLE PAVEMENT MATERIAL.
(4) EXPANDED FILL FACTOR = 1.30
(5) BORROW MATERIAL.
(6) 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 - UNUSABLE PAVEMENT MATERIAL - EXPANDED FILL.

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

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BASE COURSE ITEMS

STATION - STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	COMMENTS
STH 22					
130+50 - 135+00	LT & RT	153	984	1315	
135+00 - 143+00	LT & RT	406	1718	2313	
143+00 - 150+00	LT & RT	338	1280	1978	
150+00 - 154+00	LT & RT	195	746	1147	
154+00 - 157+00	LT & RT	125	653	897	
157+00 - 160+00	LT & RT	78	664	902	
160+00 - 167+75	LT & RT	298	1406	2232	
167+75 - 175+00	LT & RT	246	2745	2392	
175+00 - 182+87	LT & RT	66			
GREEN TREE ROAD					
311+43 - 313+99	LT & RT	253	657		
STH 156					
316+13.31 - 318+00	LT & RT	44	681		
LYON STREET					
338+72L - 339+95L	LT & RT		14		
E 12TH ST					
333+37W - 334+15W	LT & RT	10	27		
INDUSTRIAL AVENUE					
101+05 - 102+70	LT & RT	7	71		PRIOR TO STH 22/STH 156 INTERSECTION CLOSURE
101+05 - 102+70	LT & RT	59			AFTER STH 22/STH 156 INTERSECTION IS REOPENED
TRAFFIC CONTROL					
130+50 - 165+00	LT & RT		2300		STH 22 TEMPORARY ACCESS
134+25 - 134+60	LT & RT		200		14TH STREET TEMPORARY ACCESS
UNDISTRIBUTED	LT & RT			615	ESTIMATED EBS
ITEM TOTAL		2278	14146	13791	

HOT MIXED ASPHALT (HMA) PAVEMENT ITEMS

STATION - STATION	LOCATION	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	465.0105 ASPHALTIC SURFACE TON
STH 22					
130+50 - 135+00	LT & RT			49	2
135+00 - 143+00	LT & RT			90	13
143+00 - 150+00	LT & RT			16	3
150+00 - 154+00	LT & RT			11	
154+00 - 157+00	LT & RT			31	
157+00 - 160+00	LT & RT			33	
160+00 - 167+75	LT & RT				12
167+75 - 175+00	LT & RT	314		482	61
175+00 - 182+87	LT & RT				
GREEN TREE ROAD					
311+43 - 313+99	LT & RT	80	99	77	79
STH 156					
316+13.31 - 318+00	LT & RT	64	102	80	15
LYON STREET					
338+72L - 339+95L	LT & RT	16	4	3	27
E 12TH STREET/SSGT WARREN HANSEN DRIVE					
333+37W - 334+15W	LT & RT	94		95	18
INDUSTRIAL AVENUE					
101+05 - 102+70	LT & RT				30
ITEM TOTAL		568	205	966	260

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

CONCRETE PAVEMENT ITEMS

STATION - STATION	LOCATION	415.0085 CONCRETE PAVEMENT 8 1/2-INCH SY
STH 22		
130+50 - 135+00	CL	1824
135+00 - 143+00	CL	3194
143+00 - 150+00	CL	2698
150+00 - 154+00	CL	1576
154+00 - 157+00	CL	1258
157+00 - 160+00	CL	1270
160+00 - 167+75	CL	3118
167+75 - 171+42.30	CL	3357
ITEM TOTAL		18295

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONCRETE DRIVEWAY 6-INCH

STATION	LOCATION	416.0160 SY
STH 22		
130+50 - 135+00	LT & RT	184
135+00 - 143+00	LT & RT	532
143+00 - 150+00	LT & RT	528
150+00 - 154+00	LT & RT	321
154+00 - 157+00	LT & RT	144
157+00 - 160+00	LT & RT	31
160+00 - 167+75	LT & RT	341
167+75 - 175+00	LT & RT	164
175+00 - 182+87	LT & RT	89
ITEM TOTAL		2332

APRON ENDWALLS FOR CULVERT PIPE 24-INCH

STATION - STATION	LOCATION	520.1024 EACH
E 12TH STREET/SSGT WARREN HANSEN DRIVE		
333+26.74	LT	1
ITEM TOTAL		1

DRILLED TIE BARS

STATION	LOCATION	416.0610 EACH
STH 22		
130+50 - 135+00	LT & RT	12
135+00 - 143+00	LT & RT	8
143+00 - 150+00	LT & RT	4
150+00 - 154+00	LT & RT	4
154+00 - 157+00	LT & RT	8
157+00 - 160+00	LT & RT	8
175+00 - 182+87	LT & RT	4
LYON STREET		
338+72L	LT	2
339+72L	LT	2
ITEM TOTAL		52

DRILLED DOWEL BARS

STATION	LOCATION	416.0620 EACH
STH 22		
130+50	LT & RT	14
ITEM TOTAL		14

APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE

STATION - STATION	LOCATION	522.1012 12-INCH EACH	522.1018 18-INCH EACH	522.1021 21-INCH EACH
STH 22				
169+21.48	RT	1		
181+59.02	RT			1
GREEN TREE ROAD				
312+25.00	LT		1	
312+25.00	RT		1	
ITEM TOTALS		1	2	1

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

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CONCRETE CURB & GUTTER ITEMS

STATION - STATION	LOCATION	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	SPV.0090.01 CONCRETE CURB & GUTTER 24-INCH TYPE D LF	601.0600 CONCRETE CURB PEDESTRIAN LF	SPV.0090.02 DRIVEWAY GUTTER TYPE A LF
STH 22								
130+50 - 135+00	LT	438			86			
130+50 - 135+00	RT	436			86			
135+00 - 143+00	LT	799						
135+00 - 143+00	RT	758			236			
141+18 - 142+81	LT						170	
143+00 - 150+00	LT	692			66			
143+00 - 150+00	RT	700						26
150+00 - 154+00	LT	385			36			
150+00 - 154+00	RT	400						
154+00 - 157+00	LT	291			36			
154+00 - 157+00	RT	283			66			
157+00 - 160+00	LT	281			46			
157+00 - 160+00	RT	285			81			
160+00 - 167+75	LT	775						
160+00 - 167+75	RT	775						
167+75 - 175+00	LT	650	83	121				
167+75 - 175+00	RT	525	649	197				
GREEN TREE ROAD								
311+43 - 313+99	LT				86			
311+43 - 313+99	RT				145			
LYON STREET								
338+72L - 339+72L	LT					100		
ITEM TOTAL		8473	732	318	970	100	170	26

3

CONCRETE SIDEWALK 4-INCH

STATION - STATION	LOCATION	602.0405 SF
STH 22		
130+50 - 135+00	LT & RT	4283
135+00 - 143+00	LT & RT	8582
143+00 - 150+00	LT & RT	6147
150+00 - 154+00	LT & RT	3323
154+00 - 157+00	LT & RT	3077
157+00 - 160+00	LT & RT	2829
160+00 - 167+75	LT & RT	6774
167+75 - 175+00	LT & RT	3599
ITEM TOTAL		38614

CURB RAMP DETECABLE WARNING FIELD YELLOW

STATION - STATION	LOCATION	602.0505 SF
STH 22		
130+50 - 135+00	LT & RT	80
135+00 - 143+00	LT & RT	80
143+00 - 150+00	LT & RT	40
150+00 - 154+00	LT & RT	20
154+00 - 157+00	LT & RT	80
157+00 - 160+00	LT & RT	60
167+75 - 175+00	LT & RT	194
ITEM TOTAL		554

CONCRETE BARRIER TEMPORARY PRECAST

STATION - STATION	LOCATION	603.8000 DELIVERED LF	603.8125 INSTALLED LF
LYON STREET			
338+72L - 339+95L	LT & RT	160	160
E 12TH STREET/SSGT WARREN HANSEN DRIVE			
333+08W - 333+49W	RT	60	60
ITEM TOTAL		220	220

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

EROSION CONTROL ITEMS

STATION - STATION	LOCATION	606.0100 RIPRAP LIGHT CY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.6510 SOIL STABILIZER TYPE B ACRE	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	631.1100 SOD EROSION CONTROL SY	645.0130 GEOTEXTILE FABRIC TYPE R SY	SPV.0035.01 PERMANENT DITCH CHECKS CY	REMARKS
STH 22													
170+15 - 170+55	LT		82	164									
171+75 - 181+25	RT		865	1730									
173+00 - 175+00	LT		190	380									
181+58 - 181+72	RT	10									34		
181+92	RT										10	6	
182+36	RT										8	4	
GREEN TREE ROAD													
311+49 - 312+25	RT	18									67		
311+90 - 312+23	LT	10									34		
311+90 - 312+25	LT		25	50									
313+15 - 313+40	LT		25	50									
312+25	LT								5				
312+25	RT								5				
STH 156													
315+76	RT									15			
316+13	LT									11			
316+50	RT							12					
316+85 - 318+00	RT		120	240									
317+15 - 318+00	LT		85	170									
INDUSTRIAL AVENUE													
101+05 - 102+70	LT & RT		140	280			0.02						PRIOR TO STH 22/STH 156 INTERSECTION CLOSURE
101+05 - 102+70	LT & RT		140	280									AFTER STH 22/STH 156 INTERSECTION IS REOPENED
UNDISTRIBUTED			278	556	8	4		8	5	5			
ITEM TOTAL		38	1950	3900	8	4	0.02	20	15	31	153	10	

UNDERDRAIN ITEMS

STATION - STATION	LOCATION	612.0106 PIPE UNDERDRAIN 6-INCH LF	645.0112 GEOTEXTILE FABRIC TYPE DF SCHEDULE B SY
STH 22			
130+50 - 135+00	LT & RT	805	358
135+00 - 143+00	LT & RT	1456	647
143+00 - 150+00	LT & RT	1366	607
150+00 - 154+00	LT & RT	789	351
154+00 - 157+00	LT & RT	496	220
157+00 - 160+00	LT & RT	530	236
160+00 - 167+75	LT & RT	1552	690
167+75 - 175+00	LT & RT	854	380
ITEM TOTAL		7848	3489

STORM SEWER PIPE

		SPV.0090.03	SPV.0090.04	SPV.0090.05	608.0312	608.0315	608.0318	608.0321	608.0324	608.0330	608.0336
		PVC			REINFORCED CONCRETE CLASS III						
STATION - STATION	LOCATION	8-INCH LF	10-INCH LF	12-INCH LF	12-INCH LF	15-INCH LF	18-INCH LF	21-INCH LF	24-INCH LF	30-INCH LF	36-INCH LF
STH 22											
130+50 - 135+00	LT & RT		13	5	71	38	61				427
135+00 - 143+00	LT & RT				109					794	
143+00 - 150+00	LT & RT				67	29	48		616	173	
150+00 - 154+00	LT & RT			13	28	36	46				
154+00 - 157+00	LT & RT			10	48		217		169		
157+00 - 160+00	LT & RT				53	23	90		354		
160+00 - 167+75	LT & RT			24	95		31		375	418	
167+75 - 175+00	LT & RT	19			120		76	261		674	
175+00 - 182+87	LT & RT							559			
GREEN TREE RD											
311+43 - 313+99	LT & RT						124		211		
ITEM TOTAL		19	13	52	591	126	693	820	1725	2059	427

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

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STORM SEWER STRUCTURE ITEMS

STATION - STATION	LOCATION	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0627 INLET COVERS TYPE HM EACH	611.0666 INLET COVERS TYPE Z EACH	611.0612 INLET COVERS TYPE C EACH	611.8115 ADJUSTING INLET COVERS EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.1003 CATCH BASINS 3-FT DIAMETER EACH	611.1004 CATCH BASINS 4-FT DIAMETER EACH	611.1005 CATCH BASINS 5-FT DIAMETER EACH	611.1230 CATCH BASINS 2X3-FT 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	611.2055 5X5-FT EACH	SPV.0060.01 SPLIT FLOW EACH	REMARKS
STH 22																				
130+50 - 135+00	LT & RT	3	5	2							1		6			1		2		ALL CATCH BASINS SHALL HAVE 3.0' SUMP
135+00 - 143+00	LT & RT	4	6										6		4					ALL CATCH BASINS SHALL HAVE 3.0' SUMP
143+00 - 150+00	LT & RT	2	5	1							1		5	1	1					ALL CATCH BASINS SHALL HAVE 3.0' SUMP
150+00 - 154+00	LT & RT	1	3	1							1		3	1						ALL CATCH BASINS SHALL HAVE 3.0' SUMP
154+00 - 157+00	LT & RT	2	4								1		3	2						ALL CATCH BASINS SHALL HAVE 2.0' SUMP
157+00 - 160+00	LT & RT	3	3	1							1		3	1	1				1	ALL CATCH BASINS SHALL HAVE 2.0' SUMP
160+00 - 167+75	LT & RT	2	4	2									5	2	1					ALL CATCH BASINS SHALL HAVE 2.0' SUMP
167+75 - 175+00	LT & RT	1	7	1	1	3		1		1	1	3	3	1		3	1			MH 37 SHALL HAVE 3.0' SUMP, ALL CATCH BASINS SHALL HAVE 2.0' SUMP
175+00 - 182+87	LT & RT	3												3						ALL MANHOLES SHALL HAVE 3.0' SUMP
GREEN TREE ROAD																				
311+43 - 313+99	LT & RT		2				1				1	2								ALL CATCH BASINS SHALL HAVE 2.0' SUMP
E 12TH STREET / SSGT WARREN HANSEN DRIVE																				
333+37W - 334+15W	LT & RT								2											
ITEM TOTAL		21	39	8	1	3	1	1	2	1	7	5	34	11	7	4	1	2	1	

FENCE SAFETY

STATION - STATION	LOCATION	616.0700.S LF	REMARKS
STH 22			
130+50 - 135+00	LT & RT	950	
135+00 - 143+00	LT & RT	1100	
143+00 - 150+00	LT & RT	1050	
150+00 - 154+00	LT & RT	600	
154+00 - 157+00	LT & RT	400	
157+00 - 160+00	LT & RT	400	
160+00 - 167+75	LT & RT	200	
167+75 - 165+00	LT & RT	675	
UNDISTRIBUTED		1325	FOR TREE PROTECTION
ITEM TOTAL		6700	

CONCRETE MEDIAN SLOPED NOSE

STATION - STATION	LOCATION	620.0300 SF	TYPE
STH 22			
168+13	RT	47	1
168+28	RT	35	1
170+31	RT	39	1
171+38	RT	45	1
W GREEN TREE ROAD			
314+46	RT	8	2
314+74	RT	8	2
314+74	RT	7	2
STH 156			
315+46	LT	6	2
315+46	LT	7	2
315+75	LT	8	2
ITEM TOTAL		210	

WATER

STATION - STATION	LOCATION	624.0100 MGAL
STH 22		
130+50 - 135+00	LT & RT	32
135+00 - 143+00	LT & RT	57
143+00 - 150+00	LT & RT	44
150+00 - 154+00	LT & RT	26
154+00 - 157+00	LT & RT	22
157+00 - 160+00	LT & RT	22
160+00 - 167+75	LT & RT	49
167+75 - 175+00	LT & RT	52
175+00 - 182+87	LT & RT	25
GREEN TREE RD		
311+43 - 313+99	LT & RT	12
STH 156		
316+13.31 - 318+00	LT & RT	12
LYON ST		
338+72L - 339+95L	LT	2
E 12TH ST / SSGT WARREN HANSEN DR		
333+37W - 334+15W	LT	1
UNDISTRIBUTED		107
ITEM TOTAL		463

EROSION MAT

STATION - STATION	LOCATION	628.2008 URBAN CLASS I TYPE B SY
STH 22		
130+50 - 142+50	LT & RT	2350
142+50 - 150+75	LT & RT	1335
150+75 - 158+00	LT & RT	1050
158+00 - 170+00	LT & RT	2890
170+00 - 182+97	LT & RT	3115
GREEN TREE ROAD		
311+50 - 313+99	LT & RT	1150
STH 156		
316+13.31 - 318+00	LT & RT	915
E 12TH STREET/SSGT WARREN HANSEN DRIVE		
332+69W - 334+91W	LT	60
INDUSTRIAL AVENUE		
101+05 - 102+70	RT	80
UNDISTRIBUTED		1325
ITEM TOTAL		14330

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

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TURF ESTABLISHMENT ITEMS

STATION - STATION	LOCATION	625.0100 TOPSOIL SY	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	SPV.0030.01 FERTILIZER FOR LAWN TYPE TURF CWT	SPV.0180.02 PREPARING TOPSOIL FOR LAWN TYPE TURF SY	631.0300 SOD WATER MGAL	REMARKS
STH 22								
130+50 - 142+50	LT & RT	2350	43		1.5	2350	52.8	
142+50 - 150+75	LT & RT	1400	28		1	1400	30.0	INCLUDES QUANTITIES FOR REMOVING LIGHTING CABINET ON HARRIET ST
150+75 - 158+00	LT & RT	1100	22		0.9	1100	23.6	INCLUDES QUANTITIES FOR NEW LIGHTING CABINET ON 18TH STREET
158+00 - 170+00	LT & RT	2890	52		1.8	2890	64.9	
170+00 - 182+97	LT & RT	3115	56		2.0	3115	70.0	
GREEN TREE ROAD								
311+50 - 313+99	LT & RT	1150	21		0.7	1150	25.8	
STH 156								
316+13.31 - 318+00	LT & RT	915	17		0.6	915	20.6	
E 12TH STREET/SSGT WARREN HANSEN DRIVE								
332+69W - 334+91W	LT & RT	60	2	3	0.1	60	1.8	
INDUSTRIAL AVENUE								
101+05 - 102+70	RT	150	2		0.2	150	3.6	AFTER STH 22/STH 156 INTERSECTION IS REOPENED
UNDISTRIBUTED		1325	30	2	1.6	1325	40.1	
ITEM TOTAL		14515	275	5	10.5	14515	335.0	

INLET PROTECTION

STATION - STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH
STH 22				
130+50 - 135+00	LT & RT	7		7
135+00 - 143+00	LT & RT	6		6
143+00 - 150+00	LT & RT	6		6
150+00 - 154+00	LT & RT	4		4
154+00 - 157+00	LT & RT	4		4
157+00 - 160+00	LT & RT	4		4
160+00 - 167+75	LT & RT	6		6
167+75 - 175+00	LT & RT	8		8
GREEN TREE RD				
311+43 - 313+99	LT & RT	2	1	1
ITEM TOTAL		47	1	46

3

TREES

STATION - STATION	LOCATION	632.0101.01 AMER MACKIA, B&B, 1.5"CAL EACH	632.0101.02 CALLERY PEAR, B&B, 1.5"CAL EACH	632.0101.03 FLOWERING CRAB, B&B, 1.5"CAL EACH	632.0101.04 LITTLE LEAF LINDEN SUMMER SPRITE, B&B, 1.5"CAL EACH	632.0101.05 PEKIN LILAC, B&B, 1.5"CAL EACH	632.0101.06 JAPANESE TREE LILAC, B&B, 1.5"CAL EACH	632.0101.07 CORKTREE, B&B, 2"CAL EACH	632.0101.08 ELM, B&B, 2"CAL EACH	632.0101.09 FREEMAN MAPLE, B&B, 2"CAL EACH	632.0101.10 GINKGO, CG, 2"CAL EACH	632.0101.11 HACKBERRY, B&B, 2"CAL EACH	632.0101.12 AMERICAN LINDEN/BASSWOOD, B&B, 2"CAL EACH	632.0101.13 LITTLELEAF LINDEN, B&B, 1.5"CAL EACH
CATEGORY 0010														
STH 22														
130+50 - 135+00	LT & RT	1					1	2		1	2	1		1
135+00 - 143+00	LT & RT	2	1	1		2	1	2	2	2		2	1	2
143+00 - 150+00	LT & RT		1	2	1	1	1	1	1		1	1	3	
150+00 - 154+00	LT & RT		1	1	1	1	2	1	1	1	1		2	1
154+00 - 157+00	LT & RT	1	1	2		1			1					
157+00 - 160+00	LT & RT	1	1			1								
SUBTOTAL		5	5	6	2	6	5	6	5	4	4	4	6	4
CATEGORY 0020														
STH 22														
130+50 - 135+00	RT						1		1				1	
135+00 - 143+00	RT						1			1				
143+00 - 150+00	RT					1		1			1			
157+00 - 160+00	RT		1										1	
160+00 - 167+75	RT								1			1		
SUBTOTAL		0	1	0	0	1	2	1	2	1	1	1	2	0
ITEM TOTAL		5	6	6	2	7	7	7	7	5	5	5	8	4

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 4" X 6" 14-FT EACH	634.0616 POSTS WOOD 4" X 6" 16-FT EACH	634.0618 POSTS WOOD 4" X 6" 18-FT EACH	634.0808 POSTS TUBULAR STEEL 2X2-INCH 8-FT EACH	634.0811 POSTS TUBULAR STEEL 2X2-INCH 11-FT EACH	634.0812 POSTS TUBULAR STEEL 2X2-INCH 12-FT EACH	SPV.0060.02 POSTS STEEL 2 3/8-INCH DIAMETER X 14-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1-1	R3-17	BIKE LANE	18 X 24	3.00			1									
	R7-1D	NO PARKING ANY TIME	24 X 30	5.00												
1-2	R2-1	SPEED LIMIT 25	24 X 30	5.00			1							1	1	
	R7-1R	NO PARKING ANY TIME	18 X 24	3.00												
1-3	R1-1	STOP	30 X 30	5.18								1		1	1	
1-4	R7-1L	NO PARKING ANY TIME	18 X 24	3.00		1										
1-5	R7-1R	NO PARKING ANY TIME	18 X 24	3.00												BAND TO STREET LIGHT
1-6	R1-1	STOP	30 X 30	5.18								1		1	1	
1-7	R3-17	BIKE LANE	30 X 24	5.00			1									
	R7-1L	NO PARKING ANY TIME	18 X 24	3.00												
1-8	R2-1	SPEED LIMIT 25	24 X 30	5.00										1		BAND TO STREET LIGHT
1-9		NO PARKING												1	1	
1-10		NO PARKING												1	1	
1-11	R7-1R	NO PARKING ANY TIME	18 X 24	3.00		1										
2-1	R7-1R	NO PARKING ANY TIME	18 X 24	3.00		1										
2-2	R1-1	STOP	30 X 30	5.18								1		1	1	
2-3	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1										
2-4	R1-1	STOP	30 X 30	5.18								1		1	1	
2-5	R3-17	BIKE LANE	30 X 24	5.00			1									
	R7-1L	NO PARKING ANY TIME	24 X 30	5.00												
2-6	J4-1	STH 22 NORTH	24 X 36	6.00		1								1	1	
2-7	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1										
2-8	J4-1	STH 22 SOUTH	24 X 36	6.00		1										
3-1	R1-1	STOP	30 X 30	5.18								1		1	1	
3-2	R7-1L	NO PARKING ANY TIME	18 X 24	3.00		1										
3-3	R2-1	SPEED LIMIT 25	24 X 30	5.00		1								1	1	
3-4	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1										
3-5	S1-1	SCHOOL ZONE	36 X 36		6.75		1							1	1	
	S16-9P	AHEAD	30 X 18		3.75											
3-6	R7-1R	NO PARKING ANY TIME	18 X 24	3.00		1										
4-1	R3-17	BIKE LANE	30 X 24	5.00												BAND TO STREET LIGHT
	R7-1L	NO PARKING ANY TIME	24 X 30	5.00												
4-2	R1-1	STOP	30 X 30	5.18								1		1	1	
4-3	R7-1R	NO PARKING ANY TIME	18 X 24	3.00		1										
4-4	R2-1	SPEED LIMIT 25	24 X 30	5.00										1		BAND TO STREET LIGHT
4-5	R7-1L	NO PARKING ANY TIME	18 X 24	3.00		1										
4-6	R1-1	STOP	30 X 30	5.18								1		1	1	
4-7	S1-1	SCHOOL ZONE	36 X 36											1		BAND TO STREET LIGHT
	S16-7L	DOWN ARROW SYMBOL	30 X 18													
4-8	R7-1R	NO PARKING ANY TIME	18 X 24	3.00		1										
4-9	J4-1	STH 22 SOUTH	24 X 36	6.00		1								1	1	
4-10	R7-1L	NO PARKING ANY TIME	18 X 24	3.00		1										
4-11	R1-1	STOP	30 X 30	5.18								1		1	1	
4-12	R7-1R	NO PARKING ANY TIME	18 X 24	3.00		1										
4-13	J1-1	JCT 156	24 X 39	6.50			1							1	1	
4-14	S1-1	SCHOOL ZONE	36 X 36											1	1	
	S16-7L	DOWN ARROW SYMBOL	30 X 18													
4-15	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1										
5-1	R7-1D	NO PARKING ANY TIME	18 X 24	3.00												BAND TO STREET LIGHT
5-2	R1-1	STOP	30 X 30	5.18								1		1	1	
5-3	R7-1R	NO PARKING ANY TIME	18 X 24	3.00		1										
5-4	S1-1	SCHOOL ZONE	36 X 36											1	1	
	S16-9P	AHEAD	30 X 18													
5-5	R7-1D	NO PARKING ANY TIME	18 X 24	3.00												BAND TO STREET LIGHT
5-6	J2-2	NORTH 22/EAST 156	48 X 57	19.00			1							1	1	
5-7	R3-17	BIKE LANE	30 X 24	5.00			1									
	R7-1L	NO PARKING ANY TIME	18 X 24	3.00												
5-8	R1-1	STOP	30 X 30	5.18								1		1	1	
5-9	R7-1R	NO PARKING ANY TIME	18 X 24	3.00		1										
5-10	S4-51	SCHOOL SPEED LIMIT	24 X 48	6.62	1.38			1						1	1	
	R2-6P	FINES HIGHER	24 X 18	3.00												
5-11	S5-2	END SCHOOL ZONE	24 X 30	5.00		1										
5-12	WF11-2	PEDESTRIAN CROSSING	30 X 30	5.18		1										
	WF16-7L		24 X 12	2.00												
5-13	WF11-2	PEDESTRIAN CROSSING	30 X 30	5.18		1										
	WF16-7L		24 X 12	2.00												
5-14	S1-1	SCHOOL ZONE	36 X 36		6.75		1									
	S16-9P	AHEAD	30 X 18		3.75											
	R2-6P	FINES HIGHER	24 X 18	3.00												

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

PERMANENT SIGNING ITEMS (CONT)

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 4" X 6" 14-FT EACH	634.0616 POSTS WOOD 4" X 6" 16-FT EACH	634.0618 POSTS WOOD 4" X 6" 18-FT EACH	634.0808 POSTS TUBULAR STEEL 2X2-INCH 8-FT EACH	634.0811 POSTS TUBULAR STEEL 2X2-INCH 11-FT EACH	634.0812 POSTS TUBULAR STEEL 2X2-INCH 12-FT EACH	SPV.0060.02 POSTS STEEL 2 3/8-INCH DIAMETER X 14-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
6-1	R7-1D	NO PARKING ANY TIME	18 X 24	3.00		1										
6-2	S4-51	SCHOOL SPEED LIMIT	24 X 48	6.62	1.38			1						1	1	
	R2-6P	FINES HIGHER	24 X 18	3.00												
6-3	J4-1	STH 22 SOUTH	24 X 36	6.00		1								1	1	
6-4		4.5 TON BRIDGE												1	1	
6-5	R3-17	BIKE LANE	30 X 24	5.00			1									
	R7-1D	NO PARKING ANY TIME	18 X 24	3.00												
6-6	R7-1D	NO PARKING ANY TIME	24 X 30	5.00												BAND TO STREET LIGHT
6-7	W3-1	STOP AHEAD	36 X 36		9.00		1									
6-8	D1-1	SHAWANO	66 X 15	6.88		2								1	2	
6-9	S5-2	END SCHOOL ZONE	24 X 30	5.00		1										
6-10	S1-1	SCHOOL ZONE	36 X 36		6.75		1									
	S16-9P	AHEAD	30 X 18		3.75											
	R2-6P	FINES HIGHER	24 X 18	3.00												
7-1	S1-1	SCHOOL ZONE	36 X 36		6.75	1								1	1	
7-2	R2-1	SPEED LIMIT 25	24 X 30	5.00		1								1	1	
7-3	J2-1	EAST 156	24 X 57	9.50			1							1	1	
7-4	R1-1	STOP	30 X 30	5.18		1										
	R1-3P	ALL WAY	18 X 6	0.75												
7-5	R1-1	STOP	30 X 30	5.18							1					
	R1-3P	ALL WAY	18 X 6	0.75												
7-6	I2-3	POPULATION	78 X 24	13.00		2								1	2	
7-7	R4-4	BEGIN RIGHT TURN LANE	36 X 30	7.50		1										
7-8	W3-1	STOP AHEAD	36 X 36		9.00		1									
7-9	R2-1	SPEED LIMIT 25	24 X 30	5.00		1								1	1	
7-10	W14-3	NO PASSING ZONE	48 X 36		7.00		1							1	1	
7-11		ADOPT A HIGHWAY											1			
7-12	R3-17	BIKE LANE	30 X 24	5.00		1										
	R3-17BP	ENDS	30 X 12	2.50												
7-13	R2-1	SPEED LIMIT 35	24 X 30	5.00		1								1	1	
7-14	D1-1	SHAWANO	72 X 15	7.50		2								1	2	
7-15	J4-1	STH 22 NORTH	24 X 36	6.00		1								1	1	
7-16	R4-7	KEEP RIGHT	24 X 30	5.00						1						
7-17	R1-1	STOP	30 X 30	5.18							1			1	1	REMOVEABLE POST
	R1-3P	ALL WAY	18 X 6	0.75												
7-18	R1-1	STOP	30 X 30	5.18							1					REMOVEABLE POST
	R1-3P	ALL WAY	18 X 6	0.75												
7-19	W12-1D	DOUBLE DIAGONAL ARROW	24 X24		4.00				1							REMOVEABLE POST
7-20	J2-2	SOUTH 22/NORTH 22	48 X 57	19.00				1						1	1	
7-21	J4-1	EAST 156	24 X 36	6.00			1							1	1	
7-22															1	REMOVE POST WITH NO SIGN
7-23	J2-1	EAST 156	24 X 57	9.50			1							1	1	
7-24	R1-1	STOP	30 X 30	5.18		1										
	R1-3P	ALL WAY	18 X 6	0.75												
7-25	R1-1	STOP	30 X 30	5.18							1					REMOVEABLE POST
	R1-3P	ALL WAY	18 X 6	0.75												
7-26	R4-7	KEEP RIGHT	24 X 30	5.00						1						REMOVEABLE POST
7-27	R4-7	KEEP RIGHT	24 X 30	5.00						1						
7-28	R1-1	STOP	30 X 30	5.18		1								1	1	
	R1-3P	ALL WAY	18 X 6	0.75												
7-29	R1-1	STOP	30 X 30	5.18							1					
	R1-3P	ALL WAY	18 X 6	0.75												
7-30	W12-1D	DOUBLE DIAGONAL ARROW	24 X24		4.00				1							
8-1	R3-17	BIKE LANE	30 X 24	5.00		1										
	R3-17AP	AHEAD	30 X 12	2.50												
8-2	R2-1	SPEED LIMIT 35	24 X 30	5.00		1								1	1	
8-3	R59-51	STOP SCHOOL BUS FLASHING RED LIGHTS STATE LAW	36 X 36	9.00		1								1	1	
ITEM TOTAL				482.22	74.01	45	17	3	2	3	5	10	1	45	46	

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

3

TRAFFIC CONTROL

STATION - STATION	643.0300 DRUMS DAY	643.0410 BARRICADES TYPE II DAY	643.0420 BARRICADES TYPE III DAY	643.0500 FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 FLEXIBLE TUBULAR MARKER BASES EACH	643.0705 WARNING LIGHTS TYPE A DAY	643.0900 SIGNS DAY	643.3000 DETOUR SIGNS DAY
STH 22	55903	3930	10738			5830	7975	
14TH STREET	1886	180	112			140	236	
15TH STREET	868	247	1094			1281	621	
16TH STREET	1078	561	935			1122	935	
HARRIET STREET	868	90	561			748	464	
17TH STREET	868	30	748			935	404	
18TH STREET	868	90	281			374	464	
19TH STREET	868	90	281			374	277	
20TH STREET	958	90	374			468	277	
N PARK STREET	898		374			468	374	
W GREEN TREE ROAD		56	672			392	336	
STH 156			680			736	281	
LYON STREET				7	7		44	
E 12TH STREET/SSGT WARREN HANSEN DRIVE STH 156							44	
DETOUR ROUTE			617			486		32608
N MAIN ST/ (CLEARING/GRUBBING OPERATION	400						80	
ITEM TOTAL	65463	5364	17467	7	7	13354	12812	32608

TRAFFIC CONTROL COVERING SIGNS TYPE II

	643.0920 EACH	NUMBER OF CYCLES	NUMBER OF SIGNS
STAGE 1	4	1	4
ITEM TOTAL	4		

3

TEMPORARY PAVEMENT MARKING

STATION - STATION	649.0400 REMOVABLE TAPE 4-INCH (YELLOW) LF	649.0600 REMOVABLE TAPE 6-INCH (WHITE) LF	649.1200 STOP LINE REMOVABLE TAPE 18-INCH (WHITE) LF
LYON STREET			
338+72L - 339+95L	544		51
7TH STREET	370		
14TH STREET			
224+00 - 226+00		122	
18TH/19TH/20/N PARK STREET		306	
INDUSTRIAL AVENUE			
101+24 - 102+70	282		18
ITEM TOTAL	1196	428	69

PAVEMENT MARKING

STATION - STATION	LOCATION	646.0106 EPOXY 4-INCH (YELLOW) LF	646.0106 EPOXY 4-INCH (WHITE) LF	646.0106 EPOXY 4-INCH (WHITE, SKIP) LF	646.0126 EPOXY 8-INCH (WHITE) LF	646.0126 EPOXY 8-INCH (WHITE, SKIP) LF	647.0166 ARROWS EPOXY TYPE 2 EACH	647.0176 ARROWS EPOXY TYPE 3 EACH	647.0206 ARROWS BIKE LANE EPOXY EACH	647.0256 SYMBOLS EPOXY (HANDICAPPED PARKING) EACH	647.0306 SYMBOLS BIKE LANE EPOXY EACH	647.0356 WORDS EPOXY "ONLY" EACH	647.0406 WORDS BIKE LANE EPOXY "BIKE" EACH	647.0406 WORDS BIKE LANE EPOXY "LANE" EACH	647.0406 WORDS BIKE LANE EPOXY "ENDS" EACH	647.0456 CURB EPOXY LF	647.0566 STOP LINE EPOXY 18-INCH LF	647.0606 ISLAND NOSE EPOXY EACH	647.0656 PARKING STALL EPOXY 4-INCH (YELLOW) LF	647.0656 PARKING STALL EPOXY 4-INCH (WHITE) LF	647.0706 DIAGONAL EPOXY 6-INCH (YELLOW) LF	647.0726 DIAGONAL EPOXY 12-INCH (YELLOW) LF	647.0726 DIAGONAL EPOXY 12-INCH (WHITE) LF	647.0766 CROSSWALK EPOXY 6-INCH LF
STH 22																								
130+50 - 135+00	LT & RT	920	768						5		5						31							126
135+00 - 143+00	LT & RT	1535	1440						7	2	7						42			22			207	310
143+00 - 150+00	LT & RT	1348	1345						5		5						13							55
150+00 - 154+00	LT & RT	707	738						4		3						17							70
154+00 - 157+00	LT & RT	445	472						3		4						31						102	200
157+00 - 160+00	LT & RT	421	506						2		2						35							145
160+00 - 167+75	LT & RT	1903	1550						6		6											67		
167+75 - 175+00	LT & RT	1902	906	34	335	22	2	2	6		6	1	1	1	1	110	140	3				44		573
175+00 - 182+87	LT & RT																							
GREEN TREE RD																								
311+43 - 313+99	LT & RT	537				20																		
STH 156																								
316+13.31 - 318+00	LT & RT	374	374			22																		
LYON ST																								
338+72L - 339+95L	LT & RT	566								2							18			290		48		
E 12TH ST / SSGT WARREN HANSEN DR																								
333+37W - 334+15W	LT & RT	451	452																					
7TH STREET	LT & RT	370																						
SUBTOTAL		11479	8551	34	335	64	2	2	38	4	38	1	1	1	1	110	327	3	290	22	48	111	309	1479
ITEM TOTAL			20064			399	2	2	38	4	38	1		3		110	327	3		312	48		420	1479

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REMOVING PAVEMENT MARKINGS

STATION - STATION	LOCATION	646.0600 LF
7TH STREET	LT & RT	185
LYON STREET	LT & RT	176
E 12TH STREET	LT & RT	126
ITEM TOTAL		487

CONSTRUCTION STAKING

STATION - STATION	LOCATION	650.4000 STORM SEWER EACH	650.4500 SUBGRADE LF	650.5000 BASE LF	650.5500 CURB GUTTER AND CURB & GUTTER LF	650.7000 CONCRETE PAVEMENT LF	650.8000 RESURFACING REFERENCE LF	650.9920 SLOPE STAKES LF
STH 22								
130+50 - 135+00	LT & RT	10	600	86	172	514		600
135+00 - 143+00	LT & RT	10	984	118	236	866		984
143+00 - 150+00	LT & RT	8	765	33	66	732		765
150+00 - 154+00	LT & RT	5	450	18	36	432		450
154+00 - 157+00	LT & RT	6	415	51	102	364		415
157+00 - 160+00	LT & RT	7	410	46	127	364		410
160+00 - 167+75	LT & RT	8	775			775		775
167+75 - 175+00	LT & RT	13	940	358	318	582		940
175+00 - 182+87	LT & RT	3						
GREEN TREE ROAD								
311+43 - 313+99	LT & RT	2	208	208	231			208
STH 156								
316+13.31 - 318+00	LT & RT		187	187				187
LYON STREET								
338+72L - 339+95L	LT				100			
E 12TH STREET / SSGT WARREN HANSEN DRIVE								
332+69W - 334+91W	LT & RT		156	156			222	156
INDUSTRIAL AVENUE								
101+05 - 102+70	LT & RT		179	179				179
ITEM TOTAL		72	6069	1440	1388	4629	222	6069

3

LIGHTING CONDUIT AND WIRE ITEMS

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	655.0625 ELECTRICAL WIRE LIGHTING 6AWG LF	REMARKS
LCB100	LPB103		10		PULL WIRE ONLY
LPB103	LPB102		110	1,220	
LPB102	SL109	150		805	
SL109	SL108	220		1,150	
SL108	SL107	235		1,225	
SL107	SL106	195		1,025	
SL106	SL105	235		1,225	
SL105	SL104	225		1,175	
SL104	SL103	225		1,175	
SL103	SL102	225		1,175	
SL102	SL101	230		1,200	
SL101	SL100	215		675	
SL100	LPB101	195			PULL WIRE ONLY
LPB101	LPB100		50		PULL WIRE ONLY
LPB101	EXISTING	20			PULL WIRE ONLY
LPB100	EXISTING	20			PULL WIRE ONLY
LPB102	SL110	70		405	
SL110	SL111	230		1,200	
SL111	SL112	230		1,200	
SL112	SL113	250		1,300	
SL113	SL114	235		1,225	
SL114	LPB105	220		1,155	
LPB105	SL115		10	315	
LPB105	LPB104		50	310	
LPB105	LPB106	260		1,360	
LPB106	LPB107		40	520	
LPB107	SL117		10	210	
LPB107	LPB108		40		PULL WIRE ONLY
LPB106	LPB110		120	660	
LPB110	SL119		5	240	
SLP110	LPB111		45	560	
LPB111	LPB112		45	285	
LPB112	SL120		5	80	
LPB112	LPB113		45		PULL WIRE ONLY
LPB111	SL121	95		530	
SL121	SL122	140		450	
LPB104	SL116	165		880	
SL116	LPB108	90		303	
LPB108	LPB109		55	201	
LPB109	SL118		5	48	
LPB109	LPB113		110		PULL WIRE ONLY
ITEM TOTAL		**4375**	**755**	**25487**	

LIGHTING PULLBOXES

PULLBOX NUMBER	STATION	LOCATION	653.0140 PULLBOXES STEEL 24X42-INCH EACH
STH 22			
LPB100	130+82	23.4' RT	1
LPB101	130+83	24.5' LT	1
LPB102	154+12	22.0' LT	1
LPB104	166+50	27.2'RT	1
LPB105	166+50	23.7'LT	1
LPB106	169+07	38.0'LT	1
LPB107	169+07	4.0'RT	1
LPB108	169+07	43.4'RT	1
LPB109	169+47	66.9'RT	1
LPB110	170+23	53.4'LT	1
LPB111	170+60	34.0'LT	1
LPB112	170+60	9.0'RT	1
LPB113	170+64	53.4'RT	1
18TH STREET			1
LPB103	154+26	15.8'LT	1
ITEM TOTAL			**15**

TEMPORARY PEDESTRIAN ITEMS

STATION - STATION	LOCATION	SPV.0165.01 TEMPORARY PEDESTRIAN SURFACE SF	SPV.0060.11 TEMPORARY CURB RAMP EACH	REMARKS
STH 22				
130+50 - 135+00	LT & RT	200	4	
135+00 - 143+00	LT & RT	125	4	
140+43	LT & RT	125	2	STH 22 CROSSING
143+00 - 150+00	LT & RT	25	2	
144+40	LT & RT	125	2	STH 22 CROSSING
150+00 - 154+00	LT & RT	210	2	
154+00 - 157+00	LT & RT	135	4	
157+00 - 160+00	LT & RT	1000	6	
160+00 - 167+75	LT & RT	35	1	
18TH/19TH/20/N PARK STREET	LT & RT	250	8	STAGED CONSTRUCTION
UNDISTRIBUTED		750	20	HOUSE ACCESS
ITEM TOTAL		2980	55	

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

STREET LIGHT ITEMS

LIGHT NUMBER	STATION	LOCATION	654.0102 CONCRETE BASES TYPE 2 EACH	654.0105 CONCRETE BASES TYPE 5 EACH	SPV.0060.06 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE BROWN EACH	SPV.0060.07 POLES TYPE 5 ALUMINUM BROWN EACH	SPV.0060.08 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT BROWN EACH	SPV.0060.09 LUMINAIRES UTLITY LED CATEGORY B BROWN EACH	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG EACH
SL100	132+64	25.7' LT		1	1	1	1	1	138
SL101	134+78	25.7' LT		1	1	1	1	1	138
SL102	137+07	25.7' LT		1	1	1	1	1	138
SL103	139+32	21.8' LT		1	1	1	1	1	138
SL104	141+58	25.7' LT		1	1	1	1	1	138
SL105	143+82	25.7' LT		1	1	1	1	1	138
SL106	146+16	23.2' LT		1	1	1	1	1	138
SL107	148+12	23.2' LT		1	1	1	1	1	138
SL108	150+44	23.2' LT		1	1	1	1	1	138
SL109	152+66	22.7' LT		1	1	1	1	1	138
SL110	154+85	22.7' LT		1	1	1	1	1	138
SL111	157+17	22.7' LT		1	1	1	1	1	138
SL112	159+46	26.2' LT		1	1	1	1	1	138
SL113	161+97	26.2' LT		1	1	1	1	1	138
SL114	164+31	26.2' LT		1	1	1	1	1	138
SL115	166+60	26.2' LT		1	1	1	1	1	138
SL116	168+13	42.0' RT		1	1	1	1	1	138
SL117	169+15	4.0' RT	1		1	1	2	2	276
SL118	169+55	67.9' RT	1		1	1	1	1	138
SL119	170+17	52.0' LT	1		1	1	1	1	138
SL120	170+56	9.0' RT	1		1	1	2	2	276
SL121	171+56	30.4' LT		1	1	1	1	1	138
SL122	172+97	22.8' LT		1	1	1	1	1	138
ITEM TOTAL			**4**	**19**	**23**	**23**	**25**	**25**	**3450**

LIGHTING SERVICE ITEMS

CABINET NUMBER	STATION	LOCATION	650.8500.01 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (6250-01-78) LS	654.0224 CONCRETE CONTROL CABINET BASES TYPE L24 EACH	656.0200.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LCB 100) LS	659.2124 LIGHTING CONTROL CABINETS 120/240 24-INCH EACH	SPV.0060.04 REMOVE EXISTING LIGHTING CONTROL CABINET EACH
LCB100	154+26	133.8' LT	1	1	1	1	1
ITEM TOTAL			1	1	1	1	1

SAWING ASPHALT

STATION - STATION	LOCATION	690.0150 LF
STH 22		
130+50 - 135+00	LT & RT	115
135+00 - 143+00	LT & RT	207
143+00 - 150+00	LT & RT	39
150+00 - 154+00	LT & RT	34
154+00 - 157+00	LT & RT	62
157+00 - 160+00	LT & RT	105
160+00 - 167+75	LT & RT	77
167+75 - 175+00	LT & RT	259
GREEN TREE ROAD		
311+43 - 313+99	LT & RT	158
STH 156		
318+00	LT & RT	32
LYON STREET		
338+72L - 339+95L	LT	214
E 12TH STREET / SSGT WARREN HANSEN DRIVE		
333+37W - 334+23W	LT & RT	174
334+91W		26
INDUSTRIAL AVENUE		
101+24 - 102+70	LT & RT	290
ITEM TOTAL		1792

SAWING CONCRETE

STATION - STATION	LOCATION	690.0250 LF
STH 22		
130+50 - 135+00	LT & RT	99
135+00 - 143+00	LT & RT	214
143+00 - 150+00	LT & RT	189
150+00 - 154+00	LT & RT	136
154+00 - 157+00	LT & RT	85
157+00 - 160+00	LT & RT	30
160+00 - 167+75	LT & RT	106
167+75 - 175+00	LT & RT	6
175+00 - 182+87	RT	12
LYON ST		
338+72L - 339+95L	LT	4
ITEM TOTAL		881

REESTABLISH SECTION CORNER MONUMENTS

STATION - STATION	LOCATION	SPV.0060.10 EACH	REMARKS
STH 22			
140+35.34	19.89' LT	1	BERNSTEN ALUMINUM BREAK-OFF MONUMENT
ITEM TOTAL		1	

SECTION CORNER ITEMS

STATION - STATION*	LOCATION	621.0100 LANDMARK REFERENCE MONUMENTS EACH	REMARKS
STH 22			
140+30	LT	1	MAG NAIL W/ WASHER
ITEM TOTAL		1	

*STATION LOCATIONS ARE APPROXIMATE

TREE ROOT CUTTING AND REMOVAL

STATION - STATION	LOCATION	SPV.0060.03 EACH
STH 22		
132+93.7	40.0' LT	2
133+08.5	40.2' LT	2
134+90.1	35.6' LT	2
134+93.4	35.5' RT	1
135+05.6	35.6' LT	1
135+16.8	35.5' RT	3
135+37.4	35.5' LT	2
135+49.8	34.7' LT	2
135+87.2	35.6' LT	1
136+36.1	35.3' LT	2
136+66.4	38.0' RT	2
137+16.8	35.0' LT	3
137+39.0	34.8' LT	3
139+16.8	40.5' LT	2
146+67.7	32.6' LT	2
146+88.2	33.3' LT	2
148+13.0	33.1' LT	2
149+33.1	38.0' LT	1
149+89.5	49.4' LT	2
152+51.2	34.7' LT	2
152+72.0	34.5' LT	3
155+34.1	36.3' RT	2
155+59.2	36.1' RT	1
155+81.6	36.6' RT	1
156+69.3	53.6' RT	1
157+10.3	33.3' RT	1
157+37.3	31.8' RT	2
159+91.5	35.6' RT	1
ITEM TOTAL		51

GEOGRID REINFORCEMENT

STATION - STATION	LOCATION	SPV.0180.01 SY
STH 22		
130+50 - 135+00	LT & RT	2253
135+00 - 143+00	LT & RT	3964.5
143+00 - 150+00	LT & RT	3391
150+00 - 154+00	LT & RT	1966
154+00 - 157+00	LT & RT	1538
157+00 - 160+00	LT & RT	1546
160+00 - 167+75	LT & RT	3893
167+75 - 175+00	LT & RT	4100
ITEM TOTAL		22652

STREET SWEEPING

STATION - STATION	LOCATION	SPV.0075.01 HRS
STH 22		
130+50 - 154+50	LT & RT	49.5
140+50 - 168+00	LT & RT	36
168+00 - 175+00	LT & RT	10.5
130+50 - 175+00	LT & RT	8
UNDISTRIBUTED		20
ITEM TOTAL		124

PROPERTY MONUMENT ITEMS

STATION - STATION	LOCATION	SPV.0105.01 RESEARCH AND LOCATE EXISTING PROPERTY MONUMENTS LS	SPV.0105.02 VERIFY AND REPLACE EXISTING PROPERTY MONUMENTS LS
STH 22			
130+50 - 182+87	LT & RT	1	1
ITEM TOTAL		1	1

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

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6250-01-27 - 4.01
SHEET 2 OF 2
AMENDMENT NO:

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

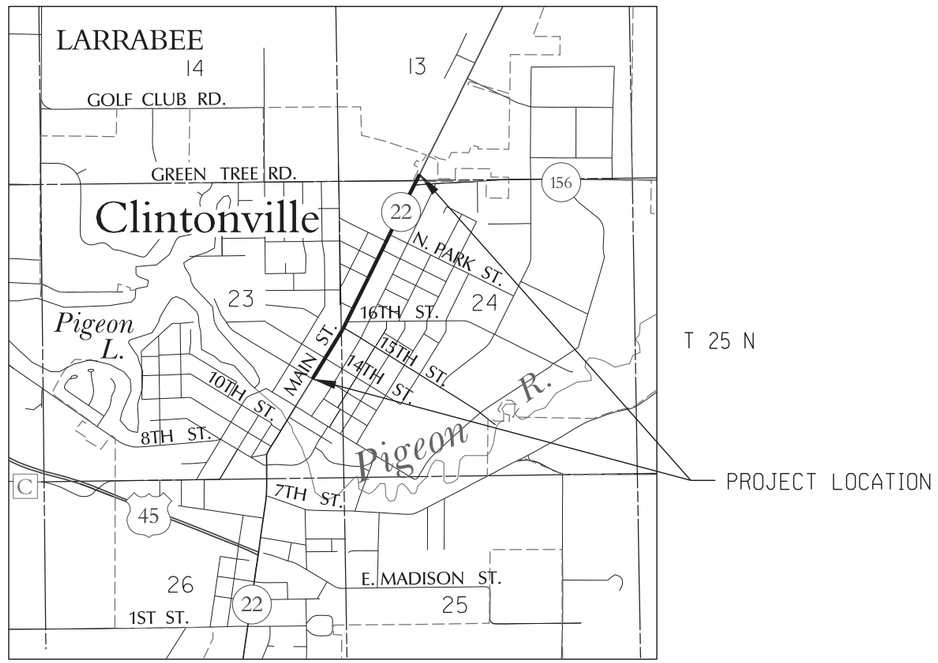
TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 6250-01-27

C CLINTONVILLE, MAIN STREET
(13TH STREET TO STH 156)

STH 22
WAUPACA COUNTY

COPIES OF RECORDED TPP AND RECORDING INFORMATION IS ON FILE AT REGISTER OF DEEDS.



LAYOUT
SCALE 0 0.5 MI.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUPACA 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.

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 STH 22 ESTABLISHED FROM THE PLAT OF THE VILLAGE OF CLINTONVILLE, U.P. CLINTON'S ADDITION TO CLINTONVILLE, R. METZNER'S ADDITION TO CLINTONVILLE, CERTIFIED SURVEY MAP 5741, REED AND HOOPER'S ADDITION TO CLINTONVILLE, CERTIFIED SURVEY MAP 5834, THE HOME CO'S FIRST ADDITION TO THE CITY OF CLINTONVILLE, ORCHARD PARK, RW PLAT T 0113(5), RW PLAT 6250-02-21, CERTIFIED SURVEY MAP 6516 EXISTING HIGHWAY RIGHT-OF-WAY FOR SIDE ROADS ESTABLISHED FROM CERTIFIED SURVEY MAP 4095 AND CENTERLINE OF EXISTING PAVEMENTS.

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.

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	|SIGN	SLOPE INTERCEPTS	- - - - - - -
SECTION CORNER MONUMENT	◍	CORPORATE LIMITS	//////////
SECTION CORNER SYMBOL	(SECTION CORNER MONUMENT)	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	◆◆◆◆ | | | | | | |
FEE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	◆◆◆◆
TEMPORARY LIMITED EASEMENT		NO ACCESS (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)	21-1	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

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

cbs2
5[illegible] W. BLUEMOUND RD.
C 138 WI54729

TRANSPORTATION PROJECT PLAT NO: 6250-01-27 - 4.01

C CLINTONVILLE, MAIN STREET (13TH STREET TO STH 156)

PART OF LOTS 1 AND 2, BLOCK L, PLAT OF THE VILLAGE OF CLINTONVILLE, PART OF LOTS 10 AND 11, BLOCK 4, AND LOT 1, BLOCK 1, U.P. CLINTON'S ADDITION TO CLINTONVILLE, PART OF LOTS 1 AND 2 OF CSM 5741, PART OF LOTS 1 AND 2, BLOCK 1, AND LOT 1, BLOCK 2, R. METZNER'S ADDITION TO CLINTONVILLE, LOCATED IN AND INCLUDING PART OF THE NE 1/4 OF THE SE 1/4, ALL IN SECTION 23, T25N. R14E, CITY OF CLINTONVILLE, WAUPACA COUNTY, WISCONSIN.

RELOCATION ORDER STH 22, WAUPACA COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF CLINTONVILLE 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 CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF CLINTONVILLE, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
736	737	S31°24'42"W	403.75'
737	735	S58°35'18"E	33.00'
735	129	S31°24'42"W	129.44'
129	128	S31°24'42"W	66.00'
128	124	S31°24'42"W	404.03'
124	117	N31°43'44"W	73.98'
117	125	N31°24'42"E	370.97'
125	126	N31°24'42"E	66.00'
126	127	N31°24'42"E	578.26'
127	130	S57°36'15"E	66.01'
130	735	S31°24'42"W	448.05'

SCHEDULE OF LANDS & INTERESTS REQUIRED

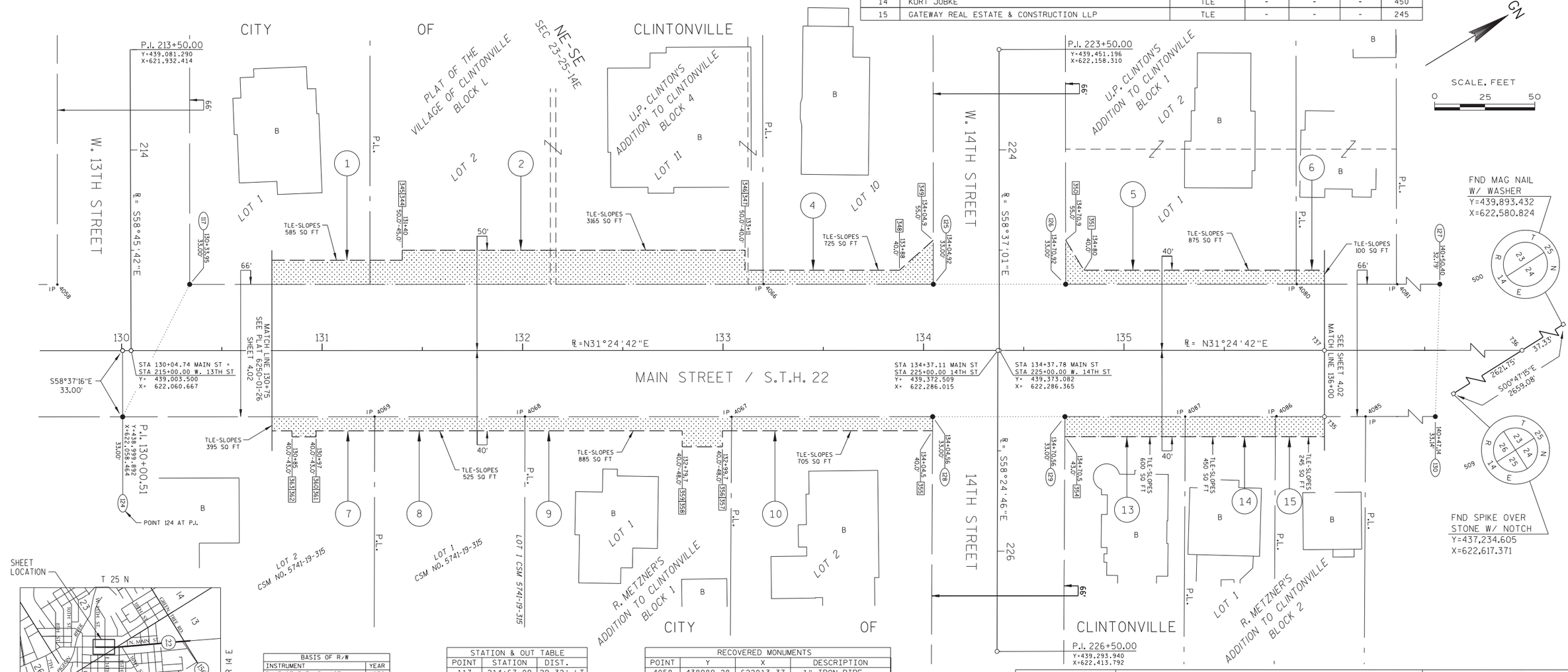
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED			TLE S.F.
			NEW	EXISTING	TOTAL	
1	BOARD OF TRUSTEES FIRST METHODIST CHURCH	TLE	-	-	-	585
2	STEVEN-HARDT LLC	TLE	-	-	-	3165
4	BRIAN P. & GLORIA J. DUNLAVY	TLE	-	-	-	725
5	JEAN GIORDANA	TLE	-	-	-	875
6	RANDY J. HANSTAD	TLE	-	-	-	100
7	ADDISON REALTY CORP	TLE	-	-	-	395
8	CITY OF CLINTONVILLE	TLE	-	-	-	525
9	STEVEN & PATRICIA BOHM	TLE	-	-	-	885
10	MARY THERESE GILLING	TLE	-	-	-	705
13	BENJAMIN L. & ANGELA C. WHITTEMORE	TLE	-	-	-	600
14	KURT JOBKE	TLE	-	-	-	450
15	GATEWAY REAL ESTATE & CONSTRUCTION LLP	TLE	-	-	-	245

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY, WISCONSIN AT ..:.. _M ON _____ AS DOCUMENT #_____ AND FILED IN _____

_____
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6250-01-27-4.01
SHEET 1 OF 2
AMENDMENT NO:



SHEET LOCATION

LOCATION SKETCH
NOT TO SCALE

BASIS OF R/W	
INSTRUMENT	YEAR
PLAT OF THE VILLAGE OF CLINTONVILLE	1872
U.P. CLINTON'S ADDITION TO CLINTONVILLE	1877
R. METZNER'S ADDITION TO CLINTONVILLE	1885
CSM NO. 5741	2002

STATION & OUT TABLE		
POINT	STATION	DIST.
117	214+67.09	29.32' LT
125	224+66.98	32.85' RT
126	224+67.02	33.15' LT
128	225+33.10	32.45' RT
129	225+32.90	33.55' LT
349	224+45	32.9' RT
350	224+45	33.1' LT
354	225+42.9	33.5' LT
355	225+40.1	32.5' RT

RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
4058	438989.28	622013.37	1" IRON PIPE
4066	439290.06	622196.85	1" IRON PIPE
4067	439241.88	622244.99	1" REBAR
4068	439154.03	622191.15	7/8" REBAR
4069	439090.03	622152.05	1/2" SQ BAR
4080	439516.96	622335.52	3/4" IRON PIPE
4081	439559.74	622361.71	2" IRON PIPE
4085	439511.87	622409.70	1-1/4" IRON PIPE
4086	439474.03	622386.39	1/2" SQ BAR
4087	439435.07	622362.84	3/4" REBAR

cbs²
515 W. PRAIRIE VIEW ROAD
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

NEIL C. BOWE (PRINTED NAME) — Neil C Bowe (SIGNATURE) — 9-8-13 (DATE)

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

LISA KUSS (PRINTED NAME) — (SIGNATURE) — (DATE)

WISCONSIN NEIL C. BOWE S-2827 CHIPPEWA FALLS WI LAND SURVEYOR

TRANSPORTATION PROJECT PLAT NO: 6250-01-27 - 4.02 AMENDMENT NO: 1
AMENDS PARCEL NO: 23 OF TRANSPORTATION PROJECT PLAT 6250-01-27 - 4.02
RECORDED AS DOCUMENT NO: 817142 IN PLAT FILE CAB C/81A

C CLINTONVILLE, MAIN STREET (13TH STREET TO STH 156)

PART OF LOTS 1,2,3,4,5 AND 6, BLOCK 2, R. METZNER'S ADDITION TO CLINTONVILLE, LOCATED IN AND INCLUDING PART OF THE NE 1/4 OF THE SE 1/4, PART OF THE SE 1/4 OF THE NE 1/4 SECTION 23, PART OF LOTS 5 AND 6, BLOCK 2, R. METZNER'S ADDITION TO CLINTONVILLE, LOCATED IN AND INCLUDING PART OF THE NW 1/4 OF THE SW 1/4, SECTION 24, T25N. R14E, CITY OF CLINTONVILLE, WAUPACA COUNTY, WISCONSIN.

RELOCATION ORDER STH 22, WAUPACA COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF CLINTONVILLE 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 CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF CLINTONVILLE, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
500	736	S00°47'15"E	37.33'
736	738	S00°47'15"E	61.93'
738	129	S31°24'42"W	480.78'
129	126	N58°16'31"W	66.00'
126	127	N31°24'42"E	578.26'
127	130	S57°36'15"E	66.01'
130	738	S31°24'42"W	96.70'

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 816845.

SCHEDULE OF LANDS & INTERESTS REQUIRED

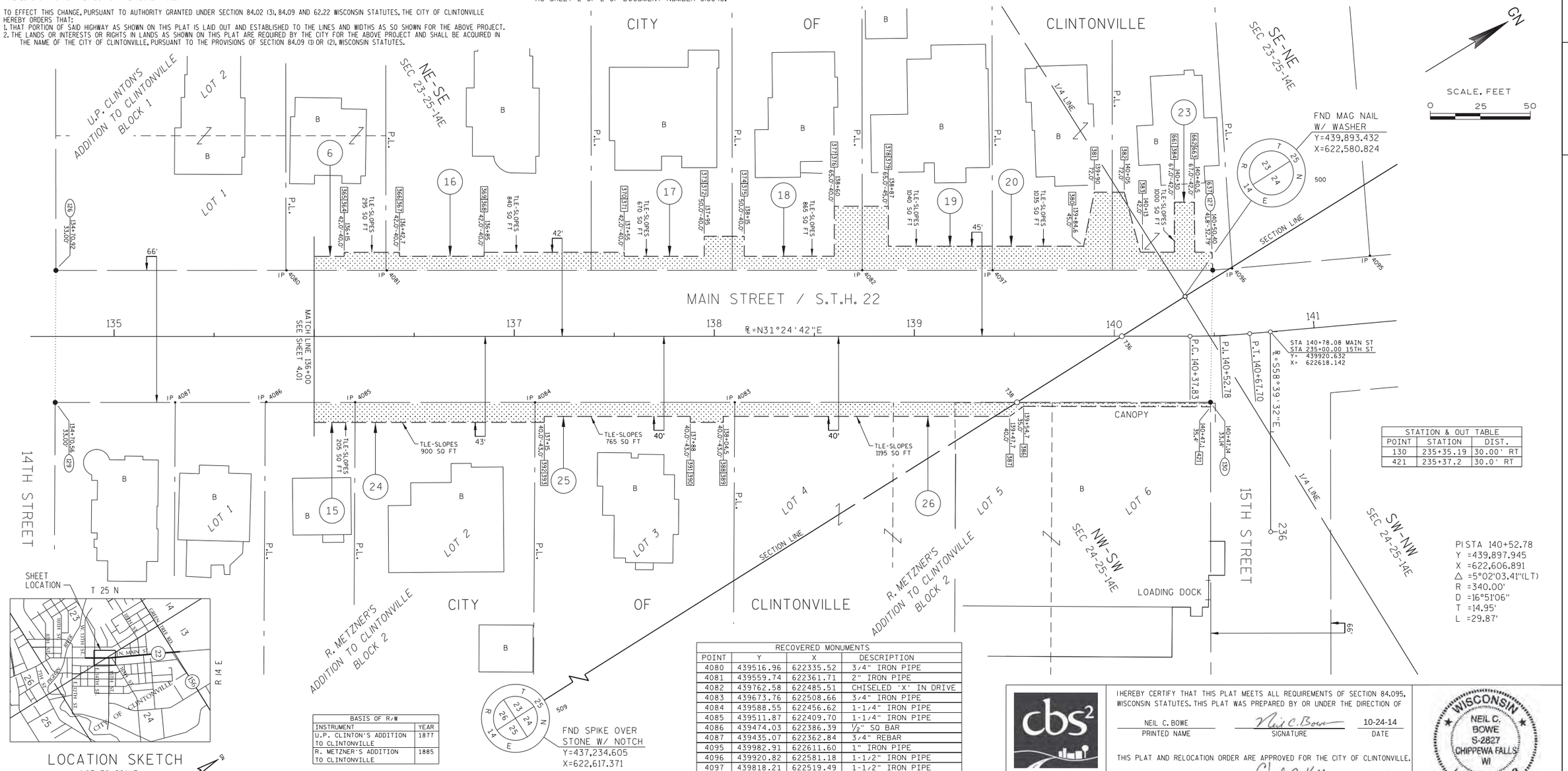
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED			TLE S.F.
			NEW	EXISTING	TOTAL	
6	RANDY J. HANSTAD	TLE	-	-	-	295
15	GATEWAY REAL ESTATE & CONSTRUCTION LLP	TLE	-	-	-	205
16	JEAN GIORDANA	TLE	-	-	-	840
17	JAMES H. & BERNICE D. OLK	TLE	-	-	-	670
18	TODD R. & PHYLLIS A. BOSSERT	TLE	-	-	-	865
19	GLEN A. & LAURAL J. JAECKS	TLE	-	-	-	1040
20	SHEILA STAMPS	TLE	-	-	-	1035
23	VALLEY INVESTMENT PROPERTIES LLC	TLE	-	-	-	1000
24	DANIEL L. & SANDRA R. LUNDT	TLE	-	-	-	900
25	JUDITH TAYLOR	TLE	-	-	-	765
26	WAUPACA PREGNANCY INFORMATION CENTER, INC.	TLE	-	-	-	1195

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY, WISCONSIN AT ..:.. _M ON _____ AS DOCUMENT #_____ AND FILED IN _____

_____
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6250-01-27-4.02
AMENDMENT NO: 1



STATION & OUT TABLE		
POINT	STATION	DIST.
130	235+35.19	30.00' RT
421	235+37.2	30.0' RT

RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
4080	439516.96	622335.52	3/4" IRON PIPE
4081	439559.74	622361.71	2" IRON PIPE
4082	439762.58	622485.51	CHISELED 'X' IN DRIVE
4083	439673.76	622508.66	3/4" IRON PIPE
4084	439588.55	622456.62	1-1/4" IRON PIPE
4085	439511.87	622409.70	1-1/4" IRON PIPE
4086	439474.03	622386.39	1/2" SQ BAR
4087	439435.07	622362.84	3/4" REBAR
4095	439982.91	622611.60	1" IRON PIPE
4096	439920.82	622581.18	1-1/2" IRON PIPE
4097	439818.21	622519.49	1-1/2" IRON PIPE

BASIS OF R/W	
INSTRUMENT	YEAR
U.P. CLINTON'S ADDITION TO CLINTONVILLE	1877
R. METZNER'S ADDITION TO CLINTONVILLE	1885

SHEET LOCATION

LOCATION SKETCH
NOT TO SCALE

cbs2
515 W. PRAIRIE VIEW ROAD
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

NEIL C. BOWE	Neil C. Bowe	10-24-14
PRINTED NAME	SIGNATURE	DATE

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF CLINTONVILLE.

CHUCK P. KELL	Charles P. Kell	10/30/2014
PRINTED NAME	SIGNATURE	DATE

WISCONSIN NEIL C. BOWE S-2827 CHIPPEWA FALLS WI LAND SURVEYOR

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\RDSTH22002-Amendment 1.dgn
APPRAISAL PLAT DATE : 9-18-13
PLOT DATE : 10/24/2014
WISDOT/CADDS SHEET 70

TRANSPORTATION PROJECT PLAT NO: 6250-01-27 - 4.03

C CLINTONVILLE, MAIN STREET (13TH STREET TO STH 156)

PART OF THE SE 1/4 OF THE NE 1/4, SECTION 23, PART OF LOT 1, CSM 5834-20-59, PART OF BLOCK A AND LOTS 1 AND 2, BLOCK B, REED AND HOOPER'S ADDITION TO CLINTONVILLE, LOCATED IN AND INCLUDING PART OF THE SW 1/4 OF THE NW 1/4, SECTION 24, T25N. R14E, CITY OF CLINTONVILLE, WAUPACA COUNTY, WISCONSIN.

RELOCATION ORDER STH 22, WAUPACA COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF CLINTONVILLE 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 CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF CLINTONVILLE, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
500	746	N00°29'45"W	26.19'
746	131	N26°22'39"E	375.64'
131	138	N26°33'07"E	50.00'
138	135	S42°08'29"E	70.76'
135	160	S26°22'39"W	190.23'
160	137	S65°43'47"E	39.18'
137	136	S77°51'09"E	21.09'
136	161	N89°26'36"E	18.01'
161	162	S00°35'46"E	60.00'
162	133	S89°26'36"W	115.17'
133	132	S26°22'39"W	73.81'
132	130	S26°53'38"W	60.18'
130	129	S31°24'42"W	577.49'
129	126	N58°16'31"W	66.00'
126	127	N31°24'42"E	578.26'
127	746	N26°22'39"E	8.43'

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	
23	VALLEY INVESTMENT PROPERTIES LLC	TLE	-	-	-	85
27	JOSEPH HAMBLIN	TLE	-	-	-	1130
28	JOSEPH TOLLES	TLE	-	-	-	930
29	VERNON & MAXINE BEALL	TLE	-	-	-	775
30	JEFFREY C. & CORINNE HOFFMAN	TLE	-	-	-	655
33	ARTHUR E. & BARBARA A. TESSMER	TLE	-	-	-	705
35	CHRISTUS LUTHERAN CHURCH	TLE	-	-	-	1560
36	CHRISTUS LUTHERAN CHURCH	FEE/TLE	620	-	620	2375

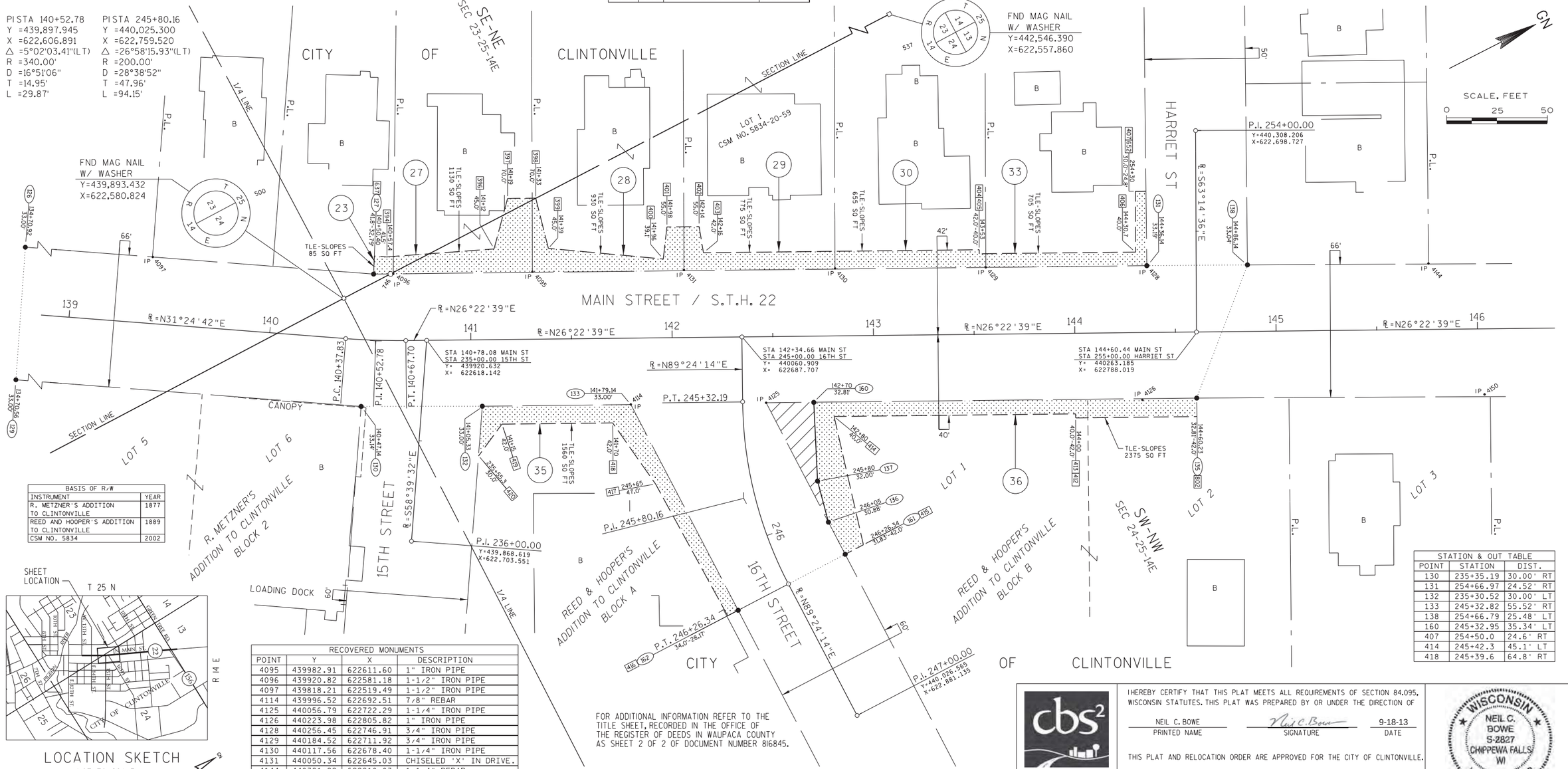
ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY, WISCONSIN AT ..:.. .M ON _____ AS DOCUMENT #_____ AND FILED IN _____

_____
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6250-01-27-4.03
AMENDMENT NO:

PISTA 140+52.78
Y =439,897.945
X =622,606.891
△ =5°02'03.41"(LT)
R =340.00'
D =16°51'06"
T =14.95'
L =29.87'

PISTA 245+80.16
Y =440,025.300
X =622,759.520
△ =26°58'15.93"(LT)
R =200.00'
D =28°38'52"
T =47.96'
L =94.15'



BASIS OF R/W	
INSTRUMENT	YEAR
R. METZNER'S ADDITION TO CLINTONVILLE	1877
REED AND HOOPER'S ADDITION TO CLINTONVILLE	1889
CSM NO. 5834	2002

STATION & OUT TABLE		
POINT	STATION	DIST.
130	235+35.19	30.00' RT
131	254+66.97	24.52' RT
132	235+30.52	30.00' LT
133	245+32.82	55.52' RT
138	254+66.79	25.48' LT
160	245+32.95	35.34' LT
407	254+50.0	24.6' RT
414	245+42.3	45.1' LT
418	245+39.6	64.8' RT

SHEET LOCATION

LOCATION SKETCH
NOT TO SCALE

RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
4095	439982.91	622611.60	1" IRON PIPE
4096	439920.82	622581.18	1-1/2" IRON PIPE
4097	439818.21	622519.49	1-1/2" IRON PIPE
4114	439996.52	622692.51	7/8" REBAR
4125	440056.79	622722.29	1-1/4" IRON PIPE
4126	440223.98	622805.82	1" IRON PIPE
4128	440256.45	622746.91	3/4" IRON PIPE
4129	440184.52	622711.92	3/4" IRON PIPE
4130	440117.56	622678.40	1-1/4" IRON PIPE
4131	440050.34	622645.03	CHISELED 'X' IN DRIVE.
4144	440381.29	622810.03	1-1/4" REBAR
4150	440376.64	622880.59	3/4" REBAR

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 816845.

cbs2
515 W. PRAIRIE VIEW ROAD
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

NEIL C. BOWE (PRINTED NAME) — Neil C. Bowe (SIGNATURE) — 9-18-13 (DATE)

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF CLINTONVILLE.

LISA KUSS (PRINTED NAME) — (SIGNATURE) — (DATE)

WISCONSIN NEIL C. BOWE S-2827 CHIPPEWA FALLS WI LAND SURVEYOR

TRANSPORTATION PROJECT PLAT NO: 6250-01-27 - 4.04

C CLINTONVILLE, MAIN STREET (13TH STREET TO STH 156)

PART OF LOT 1,2,3 AND 4, BLOCK 1, THE HOME CO.'S FIRST ADDITION TO CLINTONVILLE, PART OF LOTS 2,3,4,5,6,7 AND 8, BLOCK B, REED AND HOOPER'S ADDITION TO CLINTONVILLE, LOCATED IN AND INCLUDING PART OF THE SW 1/4 OF THE NW 1/4, SECTION 24, T25N. R14E, CITY OF CLINTONVILLE, WAUPACA COUNTY, WISCONSIN.

RELOCATION ORDER STH 22, WAUPACA COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF CLINTONVILLE 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 CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF CLINTONVILLE, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
500	757	N00°29'45"W	476.32'
757	758	S63°14'36"E	203.47'
758	138	N26°43'00"E	25.48'
138	139	N26°43'00"E	217.66'
139	142	N26°20'45"E	346.64'
142	143	N26°20'45"E	60.00'
143	163	N26°20'45"E	193.82'
163	141	S63°37'08"E	66.00'
141	140	S26°20'45"W	600.46'
140	135	S26°43'00"W	243.57'
135	795	N63°14'36"W	32.81'
795	758	N63°14'36"W	33.19'

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 816845.

SCHEDULE OF LANDS & INTERESTS REQUIRED

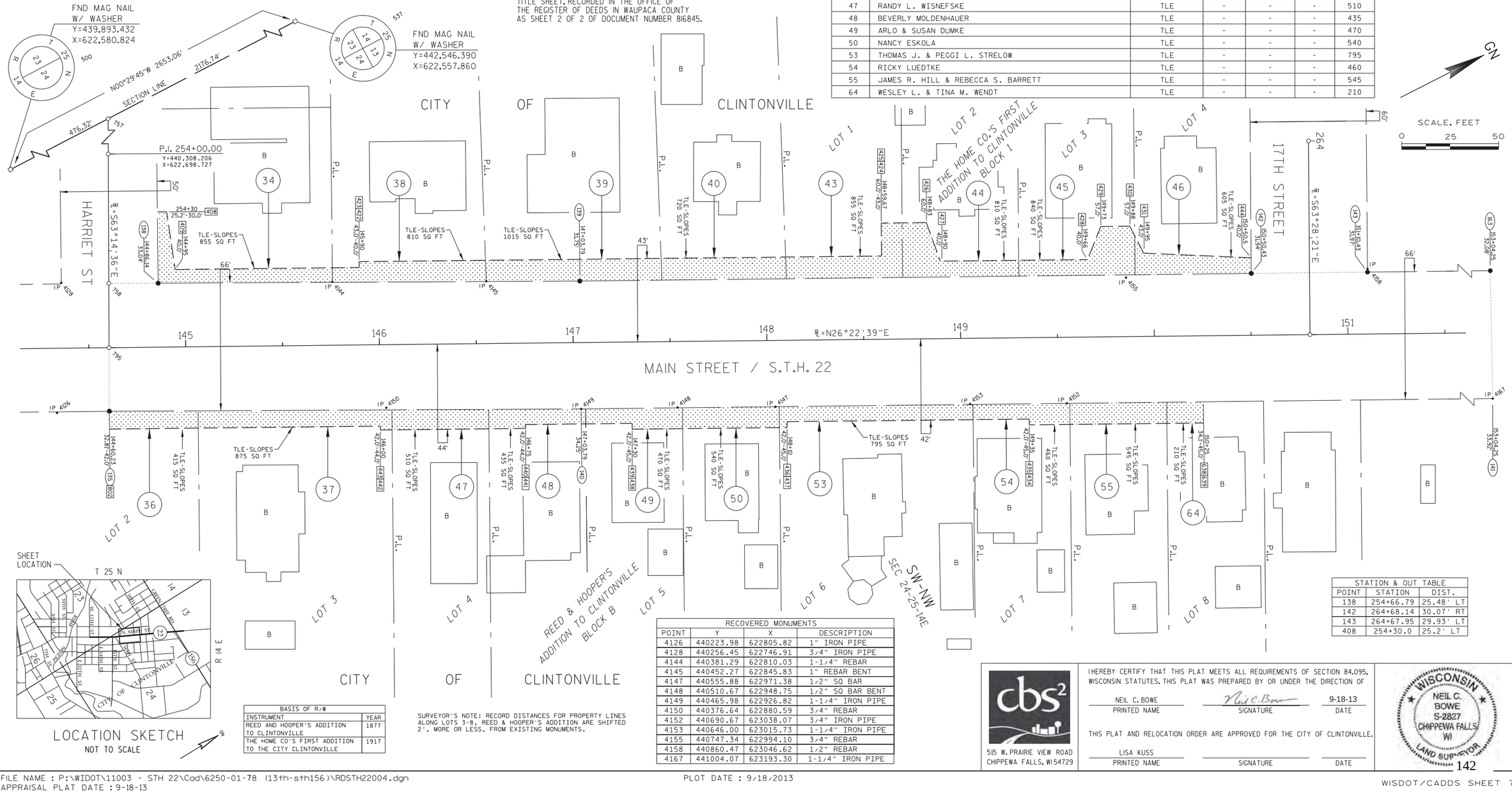
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED			TLE S.F.
			NEW	EXISTING	TOTAL	
34	MELLISSA POPPE	TLE	-	-	-	855
36	CHRISTUS LUTHERAN CHURCH	TLE	-	-	-	415
37	GR FAMILY INVESTMENTS LLC	TLE	-	-	-	875
38	L.R. HOFFMAN INVESTMENTS, LLC	TLE	-	-	-	810
39	MYRTLE KIRCHNER	TLE	-	-	-	1015
40	BRUCE E. & JEAN L. HUNDERTMARK	TLE	-	-	-	720
43	CITY OF CLINTONVILLE	TLE	-	-	-	855
44	DANIEL J. & JUDITH M. MILLER	TLE	-	-	-	810
45	NORMAN P. RUIZ	TLE	-	-	-	840
46	LISA A. BUCHERT	TLE	-	-	-	605
47	RANDY L. WISNEFSKE	TLE	-	-	-	510
48	BEVERLY MOLDENHAUER	TLE	-	-	-	435
49	ARLO & SUSAN DUMKE	TLE	-	-	-	470
50	NANCY ESKOLA	TLE	-	-	-	540
53	THOMAS J. & PEGGI L. STRELOW	TLE	-	-	-	795
54	RICKY LUEDTKE	TLE	-	-	-	460
55	JAMES R. HILL & REBECCA S. BARRETT	TLE	-	-	-	545
64	WESLEY L. & TINA M. WENDT	TLE	-	-	-	210

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY, WISCONSIN AT ..:.. _M ON _____ AS DOCUMENT #_____ AND FILED IN _____

_____
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6250-01-27-4.04
AMENDMENT NO:



STATION & OUT TABLE		
POINT	STATION	DIST.
138	254+66.79	25.48' LT
142	264+68.14	30.07' RT
143	264+67.95	29.93' LT
408	254+30.0	25.2' LT

BASIS OF R/W	
INSTRUMENT	YEAR
REED AND HOOPER'S ADDITION TO CLINTONVILLE	1877
THE HOME CO'S FIRST ADDITION TO THE CITY CLINTONVILLE	1917

SURVEYOR'S NOTE: RECORD DISTANCES FOR PROPERTY LINES ALONG LOTS 3-8, REED & HOOPER'S ADDITION ARE SHIFTED 2', MORE OR LESS, FROM EXISTING MONUMENTS.

RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
4126	440223.98	622805.82	1" IRON PIPE
4128	440256.45	622746.91	3/4" IRON PIPE
4144	440381.29	622810.03	1-1/4" REBAR
4145	440452.27	622845.83	1" REBAR BENT
4147	440555.88	622971.38	1/2" SQ BAR
4148	440510.67	622948.75	1/2" SQ BAR BENT
4149	440465.98	622926.82	1-1/4" IRON PIPE
4150	440376.64	622880.59	3/4" REBAR
4152	440690.67	623038.07	3/4" IRON PIPE
4153	440646.00	623015.73	1-1/4" IRON PIPE
4155	440747.34	622994.10	3/4" REBAR
4158	440860.47	623046.62	1/2" REBAR
4167	441004.07	623193.30	1-1/4" IRON PIPE

cbs2
515 W. PRAIRIE VIEW ROAD
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

NEIL C. BOWE	Neil C. Bowe	9-18-13
PRINTED NAME	SIGNATURE	DATE

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF CLINTONVILLE.

LISA KUSS		
PRINTED NAME	SIGNATURE	DATE

WISCONSIN NEIL C. BOWE S-2827 CHIPPEWA FALLS WI LAND SURVEYOR

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\RDSTH22004.dgn
APPRAISAL PLAT DATE : 9-18-13
PLOT DATE : 9/18/2013

TRANSPORTATION PROJECT PLAT NO: 6250-01-27 - 4.05

C CLINTONVILLE, MAIN STREET (13TH STREET TO STH 156)

PART OF LOTS 1,2,3,4 AND 5, BLOCK 2, THE HOME CO.'S FIRST ADDITION TO CLINTONVILLE, PART OF LOTS 8,9,10,11 AND 12, BLOCK B, REED AND HOOPER'S ADDITION TO CLINTONVILLE, LOCATED IN AND INCLUDING PART OF THE SW 1/4 OF THE NW 1/4, SECTION 24, T25N. R14E, CITY OF CLINTONVILLE, WAUPACA COUNTY, WISCONSIN.

RELOCATION ORDER STH 22, WAUPACA COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF CLINTONVILLE 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 CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF CLINTONVILLE, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
500	763	N00°29'45"W	1171.20'
763	764	S63°28'21"E	518.80'
764	143	N26°20'45"E	29.93'
143	163	N26°20'45"E	193.82'
163	144	N26°02'15"E	111.56'
144	145	N26°02'15"E	60.00'
145	183	N26°02'15"E	130.26'
183	148	S63°45'52"E	66.00'
148	141	S26°02'15"W	301.98'
141	140	S26°20'45"W	600.46'
140	139	N63°37'21"W	66.00'
139	142	N26°20'45"E	346.64'
142	764	N26°20'45"E	30.07'

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	
56	KENNETH & JUNE WEGE	TLE	-	-	-	655
57	TODD A. SCHULTZ	TLE	-	-	-	705
58	DENNIS L. SCHROEDER	TLE	-	-	-	475
59	NICHOLAS R. MCMILLIN	TLE	-	-	-	390
60	FRANK T. KRAINZ	TLE	-	-	-	535
64	WESLEY L. & TINA M. WENDT	TLE	-	-	-	340
65	VALLEY INVESTMENT PROPERTIES LLC	TLE	-	-	-	550
66	PHILIP J. & JO ANN R. RATH	TLE	-	-	-	1100
67	THE HELEN OLDENBURG TRUST	TLE	-	-	-	555
68	DARREN W. HELMS	TLE	-	-	-	555
69	FRANK MORGAN	TLE	-	-	-	530
70	BRADLEY S. & KELLY M. KRUEGER	TLE	-	-	-	455
73	JOHN DAVID & SANDRA WACKER	TLE	-	-	-	700
79	WELLS FARGO FINANCIAL WISCONSIN, INC.	TLE	-	-	-	140

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY, WISCONSIN AT ..:.. _M ON _____ AS DOCUMENT #_____ AND FILED IN _____

_____
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6250-01-27-4.05
AMENDMENT NO:

GN

SCALE, FEET
0 25 50

FND MAG NAIL W/ WASHER
Y=439,893.432
X=622,580.824

FND MAG NAIL W/ WASHER
Y=442,546.390
X=622,557.860

N00°29'45"W 2653.06'
1481.86'
SECTION LINE
1171.20'

CITY OF CLINTONVILLE

THE HOME CO.'S FIRST ADDITION TO CLINTONVILLE BLOCK 1
THE HOME CO.'S FIRST ADDITION TO CLINTONVILLE BLOCK 2
THE HOME CO.'S FIRST ADDITION TO CLINTONVILLE BLOCK 3
REED & HOOPER'S ADDITION TO CLINTONVILLE BLOCK B

W. 17TH STREET
W. 18TH STREET
E. 19TH STREET
MAIN STREET / S.T.H. 22

P.I. 264+00.00
Y=440,863.271
X=622,973.990

P.I. 274+00.00
Y=441,190.417
X=623,136.226

P.I. 286+50.00
Y=441,249.713
X=623,444.685

R=S63°28'21"E
R=S63°35'20"E
R=N26°22'39"E
R=S63°30'54"E 286

STA 144+60.44 MAIN ST
STA 255+00.00 W. 17TH STREET
Y= 440,818.608
X= 623,063.462

STA 154+45.78 MAIN ST
STA 275+00.00 W. 18TH STREET
Y= 441,145.936
X= 623,225.789

STA 156+36.29 MAIN ST
STA 285+00.00 19TH ST
Y= 441316.607
X= 623310.427

TLE-SLOPES 705 SQ FT
TLE-SLOPES 635 SQ FT
TLE-SLOPES 475 SQ FT
TLE-SLOPES 390 SQ FT
TLE-SLOPES 535 SQ FT
TLE-SLOPES 340 SQ FT
TLE-SLOPES 550 SQ FT
TLE-SLOPES 1100 SQ FT
TLE-SLOPES 555 SQ FT
TLE-SLOPES 555 SQ FT
TLE-SLOPES 530 SQ FT
TLE-SLOPES 455 SQ FT
TLE-SLOPES 700 SQ FT
TLE-SLOPES 140 SQ FT

SHEET LOCATION

T 25 N
R 14 E

LOCATION SKETCH
NOT TO SCALE

BASIS OF R/W	
INSTRUMENT	YEAR
REED AND HOOPER'S ADDITION TO CLINTONVILLE	1877
THE HOME CO'S FIRST ADDITION TO THE CITY CLINTONVILLE	1917

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 816845.

RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
4152	440690.67	623038.07	3/4" IRON PIPE
4155	440747.34	622994.10	3/4" IRON PIPE
4158	440860.47	623046.62	1/2" REBAR
4163	441026.34	623129.41	1" REBAR
4164	441080.07	623156.05	1" REBAR
4166	441096.10	623237.12	CHISELED 'X' IN SIDEWALK
4167	441004.07	623193.30	1-1/4" IRON PIPE
4168	440959.58	623170.89	RR SPK
4169	440914.11	623148.91	1-1/4" IRON PIPE
4180	441133.85	623182.62	1" REBAR

STATION & OUT TABLE		
POINT	STATION	DIST.
142	264+68.14	30.07' RT
143	264+67.95	29.93' LT
144	274+67.27	30.00' RT
145	274+66.88	30.00' LT
445	264+45.0	29.9' LT
459	274+60.0	30.0' RT

cbs2
515 W. PRAIRIE VIEW ROAD
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

NEIL C. BOWE — PRINTED NAME
Neil C. Bowe — SIGNATURE
9-18-13 — DATE

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF CLINTONVILLE.

LISA KUSS — PRINTED NAME
_____ — SIGNATURE
_____ — DATE

WISCONSIN
NEIL C. BOWE
S-2827
CHIPPEWA FALLS WI
LAND SURVEYOR

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\RDSTH22005.dgn
APPRAISAL PLAT DATE : 9-18-13

PLOT DATE : 9/18/2013

WISDOT/CADDS SHEET 70

TRANSPORTATION PROJECT PLAT NO: 6250-01-27 - 4.06

C CLINTONVILLE, MAIN STREET (13TH STREET TO STH 156)

PART OF LOT 1, BLOCK 3, THE HOME CO.'S FIRST ADDITION TO CLINTONVILLE, PART OF LOT 13, BLOCK B, REED AND HOOPER'S ADDITION TO CLINTONVILLE, LOCATED IN AND INCLUDING PART OF THE SW 1/4 OF THE NW 1/4, PART OF LOTS 1,2,3,4, AND 5, BLOCK 3, THE HOME CO.'S FIRST ADDITION TO CLINTONVILLE, PART OF LOT 13, BLOCK B, AND LOTS 1,2, AND 3, BLOCK C, REED AND HOOPER'S ADDITION TO CLINTONVILLE, LOCATED IN AND INCLUDING PART OF THE NW 1/4 OF THE NW 1/4, SECTION 24, T25N. R14E, CITY OF CLINTONVILLE, WAUPACA COUNTY, WISCONSIN.

RELOCATION ORDER STH 22, WAUPACA COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF CLINTONVILLE 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 CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF CLINTONVILLE, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
769	770	S63°35'20"E	702.47'
770	145	N26°02'15"E	30.00'
145	147	N26°02'15"E	300.00'
147	151	N26°24'07"E	60.00'
151	182	N26°25'40"E	789.19'
182	157	S63°38'37"E	66.00'
157	152	S26°25'40"W	653.95'
152	150	S26°25'40"W	60.00'
150	149	S26°25'40"W	245.00'
150	187	S26°25'40"W	131.16'
187	149	S26°02'15"W	113.68'
149	148	S26°02'15"W	60.00'
148	141	S26°02'15"W	301.98'
141	163	N63°37'21"W	66.00'
163	144	N26°02'15"E	111.56'
144	770	N26°02'15"E	30.00'

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

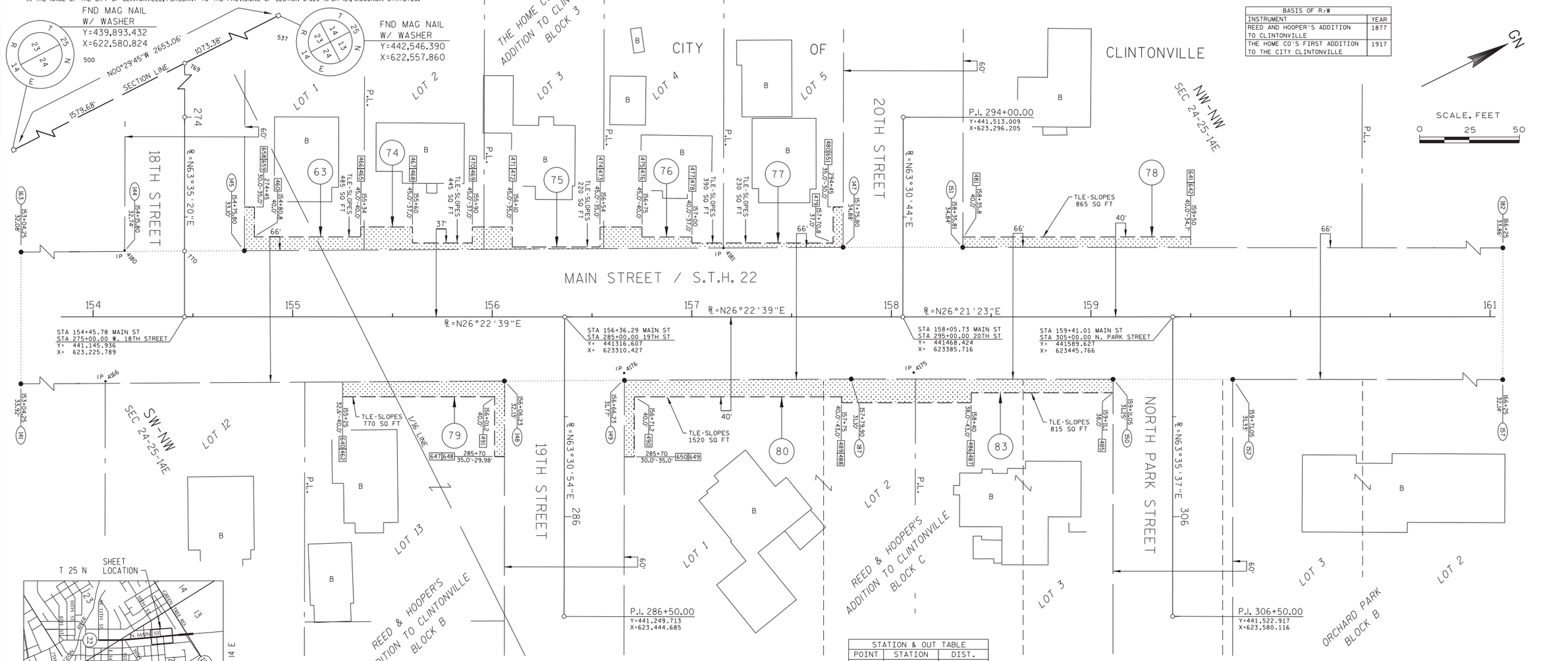
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED			TLE S.F.
			NEW	EXISTING	TOTAL	
63	MICHAEL & CANDY ADAMS	TLE	-	-	-	485
74	JASON H. RINDT & JODI RETTKOWSKI	TLE	-	-	-	445
75	LAVERN URICHSEN	TLE	-	-	-	220
76	RICHARD L. & SUSAN M. EGGERT C/O MILTON SEEHAFER	TLE	-	-	-	390
77	GERALD & LANA KUEHL	TLE	-	-	-	230
78	LEONARD M. & MARY M. SCRUTON	TLE	-	-	-	865
79	WELLS FARGO FINANCIAL WISCONSIN, INC.	TLE	-	-	-	770
80	CHERI SADLER & RANDY L. SHEPARD	TLE	-	-	-	1520
83	VERNON & GERALDINE PITT	TLE	-	-	-	815

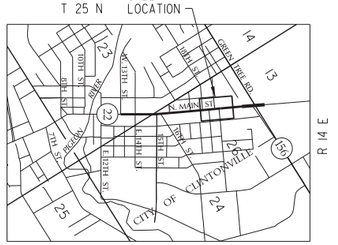
ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY, WISCONSIN AT ..:.. _M ON _____ AS DOCUMENT #_____ AND FILED IN _____

_____
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6250-01-27-4.06
AMENDMENT NO:

BASIS OF R/W	
INSTRUMENT	YEAR
REED AND HOOPER'S ADDITION TO CLINTONVILLE	1877
THE HOME CO'S FIRST ADDITION TO THE CITY CLINTONVILLE	1917





LOCATION SKETCH
NOT TO SCALE

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 816845.

RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
4166	441096.10	623237.12	CHISELED 'X' IN SIDEWALK
4167	441330.79	623348.86	CHISELED 'X' IN SIDEWALK
4175	441460.91	623413.08	1-1/2" IRON PIPE
4176	441330.79	623348.86	CHISELED 'X' IN SIDEWALK
4180	441133.85	623182.62	1" REBAR
4181	441403.20	623314.88	1" REBAR

STATION & OUT TABLE		
POINT	STATION	DIST.
144	274+67.27	30.00' RT
145	274+66.88	30.00' LT
147	294+65.18	30.00' RT
148	285+32.18	30.00' RT
149	285+31.72	30.00' LT
151	294+65.09	30.00' LT
460	274+60.0	30.0' LT
480	294+55.1	30.0' RT
490	285+39.9	30.0' LT
491	285+40.1	30.0' RT

cbs²
515 W. PRAIRIE VIEW ROAD
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

NEIL C. BOWE — PRINTED NAME
Neil C. Bowe — SIGNATURE
9-18-13 — DATE

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF CLINTONVILLE.

LISA KUSS — PRINTED NAME
_____ — SIGNATURE
_____ — DATE

WISCONSIN NEIL C. BOWE S-2827 CHIPPEWA FALLS WI LAND SURVEYOR

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\RDSTH22006.dgn
APPRAISAL PLAT DATE : 9-18-13
PLOT DATE : 9/18/2013
WISDOT/CADDS SHEET 70

TRANSPORTATION PROJECT PLAT NO: 6250-01-27 - 4.07

C CLINTONVILLE, MAIN STREET (13TH STREET TO STH 156)

PART OF LOTS 1,2 AND 3, BLOCK B, ORCHARD PARK, PART OF LOT 6, BLOCK C, REED AND HOOPER'S ADDITION TO CLINTONVILLE, PART OF LOTS 10,11 AND 12, BLOCK A, ORCHARD PARK, LOCATED IN AND INCLUDING PART OF THE NW 1/4 OF THE NW 1/4, SECTION 24, T25N, R14E, CITY OF CLINTONVILLE, WAUPACA COUNTY, WISCONSIN.

RELOCATION ORDER STH 22, WAUPACA COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF CLINTONVILLE 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 CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF CLINTONVILLE, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
930	789	S89°43'58"W	1278.34'
789	787	S26°21'23"W	390.87'
787	157	S63°38'37"E	32.14'
157	152	S26°25'40"W	653.95'
152	150	S26°25'40"W	60.00'
150	184	S26°25'40"W	75.27'
184	151	N63°38'37"W	66.00'
151	182	N26°25'40"E	789.21'
182	787	S63°38'37"E	33.86'

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

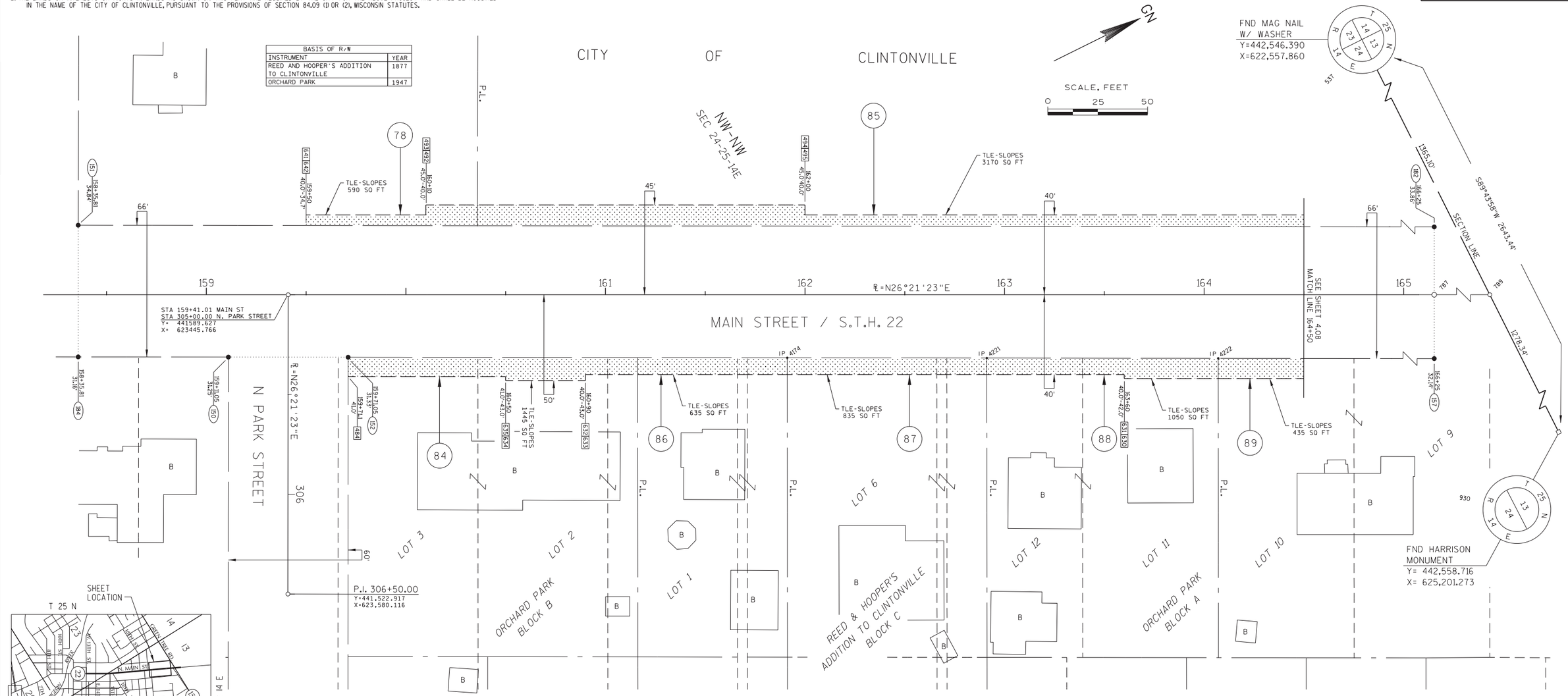
PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED			TLE S.F.
			NEW	EXISTING	TOTAL	
78	LEONARD & MARY SCRUTON	TLE	-	-	-	590
84	CATHERINE BELLIVEAU	TLE	-	-	-	1445
85	SCHOOL DISTRICT NO. 1 OF CLINTONVILLE	TLE	-	-	-	3170
86	GERALD & KATHLEEN SCHERTZ	TLE	-	-	-	635
87	JOHN WACKER C/O DAVID & JEAN WACKER	TLE	-	-	-	835
88	RONALD & LINDA GAST	TLE	-	-	-	1050
89	CLINTONVILLE BETHANY EVANGELICAL FREE CHURCH	TLE	-	-	-	435

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY, WISCONSIN AT ..:.. _M ON _____ AS DOCUMENT #_____ AND FILED IN _____

_____
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6250-01-27-4.07
AMENDMENT NO:

BASIS OF R/W	
INSTRUMENT	YEAR
REED AND HOOPER'S ADDITION TO CLINTONVILLE	1877
ORCHARD PARK	1947



SHEET LOCATION

LOCATION SKETCH
NOT TO SCALE

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 816845.

STATION & OUT TABLE		
POINT	STATION	DIST.
150	305+31.28	29.93' RT
152	305+31.30	30.07' LT
484	305+40.9	30.1' LT

RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
4174	441799.71	623585.12	1" IRON PIPE
4221	441889.21	623629.64	1-1/2" IRON PIPE
4222	441993.12	623681.24	2" IRON PIPE

cbs2
515 W. PRAIRIE VIEW ROAD
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

NEIL C. BOWE	Neil C. Bowe	9-18-13
PRINTED NAME	SIGNATURE	DATE

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF CLINTONVILLE.

LISA KUSS		
PRINTED NAME	SIGNATURE	DATE

WISCONSIN
NEIL C. BOWE
S-2827
CHIPPEWA FALLS WI
LAND SURVEYOR

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\RDSTH22007.dgn
APPRAISAL PLAT DATE : 9-18-13

PLOT DATE : 9/18/2013

TRANSPORTATION PROJECT PLAT NO: 6250-01-27 - 4.08 AMENDMENT NO: 1
AMENDS PARCEL NO: 85 AND 89 OF TRANSPORTATION PROJECT PLAT 6250-01-27 - 4.08 RECORDED AS DOCUMENT NO: 817148 IN PLAT FILE CAB C/81A

C CLINTONVILLE, MAIN STREET (13TH STREET TO STH 156)

PART OF LOTS 4,5,6,7,8,9 AND 10, BLOCK A, ORCHARD PARK, LOCATED IN AND INCLUDING PART OF THE NW 1/4 OF THE NW 1/4, PART OF LOTS 4 AND 5, BLOCK A, ORCHARD PARK, LOCATED IN AND INCLUDING PART OF THE NE 1/4 OF THE NW 1/4, SECTION 24, T25N. R14E, CITY OF CLINTONVILLE, WAUPACA COUNTY, WISCONSIN.

RELOCATION ORDER STH 22, WAUPACA COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF CLINTONVILLE 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 CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF CLINTONVILLE, 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 WAUPACA COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 816845.

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	
85	SCHOOL DISTRICT NO. 1 OF CLINTONVILLE	FEE/TLE	3580	-	3580	10530
89	CLINTONVILLE BETHANY EVANGELICAL FREE CHURCH	FEE/TLE	208	-	208	1895
93	GLENN R. & BEVERLY J. COPUS	TLE	-	-	-	520
94	JOHN W. CONNELLY	TLE	-	-	-	575

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS
201	OWEST	RELEASE OF RIGHTS

UTILITY INTEREST TABLE			
UTILITY	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
200	85	NO RECORDED EASEMENT	
201	85	NO RECORDED EASEMENT	

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
178	156	S10°59'40"W	131.93'
156	155	S56°31'46"W	129.53'
155	154	S26°25'40"W	136.36'
154	158	N63°40'44"W	9.80'
158	157	S30°10'13"W	79.72'
157	152	S26°25'40"W	628.57'
152	151	S52°25'37"W	150.56'
151	182	N26°25'40"E	789.19'
182	164	N26°25'40"E	97.88'
164	165	N22°24'07"E	90.81'
165	166	N26°21'23"E	33.94'
166	167	N18°16'56"E	35.60'
167	168	N06°52'31"W	34.67'
168	188	N49°26'42"W	40.30'
188	189	N70°23'58"W	15.10'
189	190	S89°43'58"W	43.51'
190	805	N00°47'39"W	33.00'
805	794	N89°43'58"E	89.11'
794	818	N89°43'58"E	92.89'
818	178	N89°43'58"E	97.14'

PISTA 313+80.69
Y =442,563.674
X =623,784.683
△ =18°09'02"(RT)
R =340.00'
D =16°51'06"
T =54.31'
L =107.71'

PISTA 316+38.44
Y =442,486.512
X =624,031.568
△ =20°42'38"(LT)
R =340.00'
D =16°51'06"
T =62.13'
L =122.90'

STATION & OUT TABLE		
POINT	STATION	DIST.
156	169+28.02	122.48' RT
166	314+50.42	102.08' RT
167	314+34.79	60.12' RT
168	169+33.99	80.70' LT
608	314+23.4	72.7' RT
607	314+32.1	99.3' RT
612	311+85	58.0' RT
613	311+85	42.8'RT

SURVEYOR'S NOTE: ALIGNMENT IS NOT COINCIDENT WITH 6250-01-27 - 4.08 ALIGNMENT.

FND MAG NAIL W/ WASHER
Y=442,546.390
X=622,557.860

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY, WISCONSIN AT ..:.. ..M ON _____ AS DOCUMENT #_____ AND FILED IN _____

_____
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6250-01-27-4.08
AMENDMENT NO: 1

SCALE, FEET
0 25 50

CITY OF CLINTONVILLE

NW-NW SEC 24-25-14E

NE-NW SEC 24-25-14E

MAIN STREET / S.T.H. 22

GREEN TREE RD. S.T.H. 156

GREEN TREE RD.

R/W VARIES

1/16 LINE

SECTION LINE

MATCH LINE 164+50 SEE SHEET 4.07

TLE-SLOPES 1895 SQ FT

TLE-SLOPES 520 SQ FT

TLE-SLOPES 575 SQ FT

TLE-SLOPES 10530 SQ FT

STA 169+83.41 STH 22
STA 315+00.00 STH 156
Y= 442,527.810
X= 623,899.433

FND HARRISON MONUMENT
Y= 442,558.716
X= 625,201.273

P.I. 168+15.31
Y=442,377.188
X=623,824.806
54.0°-30.00'

P.I. 166+64.98
Y=442,269.174
X=623,767.174

P.C. 313+26.38

P.I. 313+80.69

P.T. 314+34.08

P.C. 315+76.31

P.I. 316+38.44

R=N89°12'21"E 1172.69'

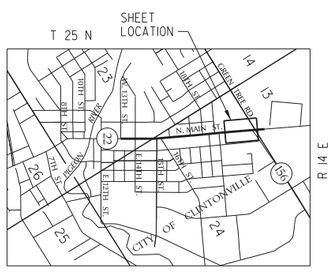
R=S72°38'37"E

N89°43'58"E 2643.44'

BASIS OF R/W	
INSTRUMENT	YEAR
ORCHARD PARK	1947
R/W PLAT T 0113 (5)	1996

RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
4219	442048.54	623875.94	1-1/2" IRON PIPE
4222	441993.12	623681.24	2" IRON PIPE
4225	442170.07	623937.14	1-1/2" IRON PIPE
4226	442231.12	623967.50	2" IRON PIPE
4227	442233.89	623969.35	2" IRON PIPE BENT
4228	442288.20	623996.01	2" IRON PIPE
4230	442301.42	624003.49	1" IRON PIPE
4232	442610.21	623904.07	1-1/4" IRON PIPE

LOCATION SKETCH
NOT TO SCALE



cbs²
770 TECHNOLOGY WAY
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

NEIL C. BOWE — PRINTED NAME
Neil C. Bowe — SIGNATURE
11-20-14 — DATE

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF CLINTONVILLE.

CHUCK P. KELL — PRINTED NAME
Chuck P. Kell — SIGNATURE
11-20-14 — DATE

WISCONSIN
NEIL C. BOWE
S-2827
CHIPPEWA FALLS WI
LAND SURVEYOR

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\RDSTH22008 - Amend No 1.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 11/20/2014

TRANSPORTATION PROJECT PLAT NO: 6250-01-27 - 4.09

C CLINTONVILLE, MAIN STREET (13TH STREET TO STH 156)

PART OF LOT 1, CSM 6516-23-233, LOCATED IN AND INCLUDING PART OF THE SW 1/4 OF THE SW 1/4, PART OF THE SE 1/4 OF THE SW 1/4, SECTION 13, T25N, R14E, CITY OF CLINTONVILLE, WAUPACA COUNTY, WISCONSIN.

RELOCATION ORDER STH 22, WAUPACA COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 62.22 WISCONSIN STATUTES, THE CITY OF CLINTONVILLE 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 CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF CLINTONVILLE, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
537	930	N89°43'58"E	2643.44'
537	800	N89°43'58"E	996.30'
800	170	N00°47'39"W	33.00'
170	171	N89°43'58"E	69.77'
171	172	N00°42'48"W	23.98'
172	173	N89°38'34"E	280.94'
173	174	N26°22'44"E	190.02'
174	175	S63°37'16"E	85.30'
175	176	S26°22'44"W	160.51'
176	177	S40°40'50"E	16.47'
177	178	S09°09'33"E	33.40'
178	792	S89°43'58"W	97.91'
792	794	S89°43'58"W	92.12'
794	800	S89°43'58"W	265.50'

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			TLE S.F.
			NEW	EXISTING	TOTAL	
95	CLINTONVILLE PUBLIC SCHOOL DISTRICT	TLE	-	-	-	1225
96	NORTHSIDE PLAZA, INC.	FEE/TLE	1825	-	1825	6785
97	ALOYSIUS J. SANDERFOOT	TLE	-	-	-	555
98	JOEL & LILY PYATSKOWIT	TLE	-	-	-	15

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY, WISCONSIN AT _:_ _.M ON _____ AS DOCUMENT #_____ AND FILED IN _____

_____
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6250-01-27-4.09
AMENDMENT NO:

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
200	FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS
201	QWEST	RELEASE OF RIGHTS

UTILITY INTEREST TABLE			
UTILITY	PARCEL	INTEREST DESCRIPTION	RECORDING INFORMATION
200	95,96	RIGHT-OF-WAY EASEMENT	DOC# 633604 DOC# 633605
201	96	NO RECORDED EASEMENT	

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 816845.

PISTA 313+80.69
Y =442,563.674
X =623,784.683
△ =18°09'02"(RT)
R =340.00'
D =16°51'06"
T =54.31'
L =107.71'

PISTA 316+38.44
Y =442,486.512
X =624,031.568
△ =20°42'38"(LT)
R =340.00'
D =16°51'06"
T =62.13'
L =122.90'

SW-SW
SEC 13-25-14E

CITY OF CLINTONVILLE

NW-NW
SEC 24-25-14E

NE-NW
SEC 24-25-14E

SE-SW
SEC 13-25-14E

TOWN OF LARRABEE

GREEN TREE RD.

GREEN TREE RD. / S.T.H. 156

MAIN STREET / S.T.H. 22

S.T.H. 22

CSM 6516-23-233

CSM 6516-23-233 LOT 1

1/16 LINE

R/W VARIES

SECTION LINE

CANOPY

TLE-SLOPES 1225 SQ FT

TLE-SLOPES 6785 SQ FT

TLE-SLOPES 15 SQ FT

TLE-SLOPES 435 SQ FT

TLE-SLOPES 120 SQ FT

FND MAG NAIL
W/ WASHER
Y=442,546.390
X=622,557.860

P.I. 311+43.00
Y=442,560.377
X=623,546.811

P.I. 313+80.69

P.C. 313+26.38

P.T. 314+34.08

STA 314+16.54

STA 314+79.91

STA 170+11.36

STA 169+83.58 STH 22
STA 315+00.00 STH 156
Y= 442,527.810
X= 623,899.433

P.C. 315+76.31

P.I. 316+38.44

P.T. 316+93.21

P.I. 168+15.48
Y=442,377.188
X=623,824.806

P.I. 170+73.83
Y=442,608.680
X=623,939.500

P.I. 171+54.56
Y=442,676.004
X=623,984.060

FND HARRISON MONUMENT
Y= 442,558.716
X= 625,201.273

BASIS OF R/W	
INSTRUMENT	YEAR
R/W PLAT 6250-02-21	1995
R/W PLAT T 0113(5)	1996
CSM NO. 6516	2005

STATION & OUT TABLE		
POINT	STATION	DIST.
173	314+79.91	79.92' LT
620	314+67.5	82.5' LT

RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
4231	442609.28	623731.78	1-1/4" IRON PIPE
4232	442610.21	623904.07	1-1/4" IRON PIPE

T 25 N
R 14 E
SHEET LOCATION
LOCATION SKETCH
NOT TO SCALE

GN
SCALE, FEET
0 25 50

cbs²
515 W. PRAIRIE VIEW ROAD
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

NEIL C. BOWE — PRINTED NAME
Neil C. Bowe — SIGNATURE
9-18-13 — DATE

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF CLINTONVILLE.

LISA KUSS — PRINTED NAME
_____ — SIGNATURE
_____ — DATE

WISCONSIN
NEIL C. BOWE
S-2827
CHIPPEWA FALLS WI
LAND SURVEYOR

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\RDSTH22009.dgn
APPRAISAL PLAT DATE : 9-18-13

PLOT DATE : 9/18/2013

WISDOT/CADDS SHEET 70

TRANSPORTATION PROJECT PLAT NO: 6250-01-27 - 4.10

C CLINTONVILLE, MAIN STREET (13TH STREET TO STH 156)

PART OF THE SE 1/4 OF THE SW 1/4, SECTION 13, T25N, R14E, CITY OF CLINTONVILLE AND TOWN OF LARRABEE, WAUPACA COUNTY, WISCONSIN.

STH 22, WAUPACA COUNTY

THE STATE OF WISCONSIN HAS DEEMED IT NECESSARY TO MONUMENT RIGHT-OF-WAY INTERESTS PREVIOUSLY ACQUIRED UNDER SECTIONS 82.01, 82.31(1), 82.31(2), AND 84.09 OF THE WISCONSIN STATE STATUTES AND DOES HEREBY CERTIFY THE DEPARTMENT OF TRANSPORTATION HAS SURVEYED THE HIGHWAY RIGHT-OF-WAY; THAT THIS PLAT IS A TRUE AND CORRECT REPRESENTATION OF THE EXTERIOR BOUNDARIES OF THE LAND SURVEYED AND SHOWS ACCURATE MEASUREMENTS THEREOF.

SURVEYOR'S NOTE: ALIGNMENT IS NOT COINCIDENT WITH 6250-01-27 - 4.09 ALIGNMENT.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 816845.

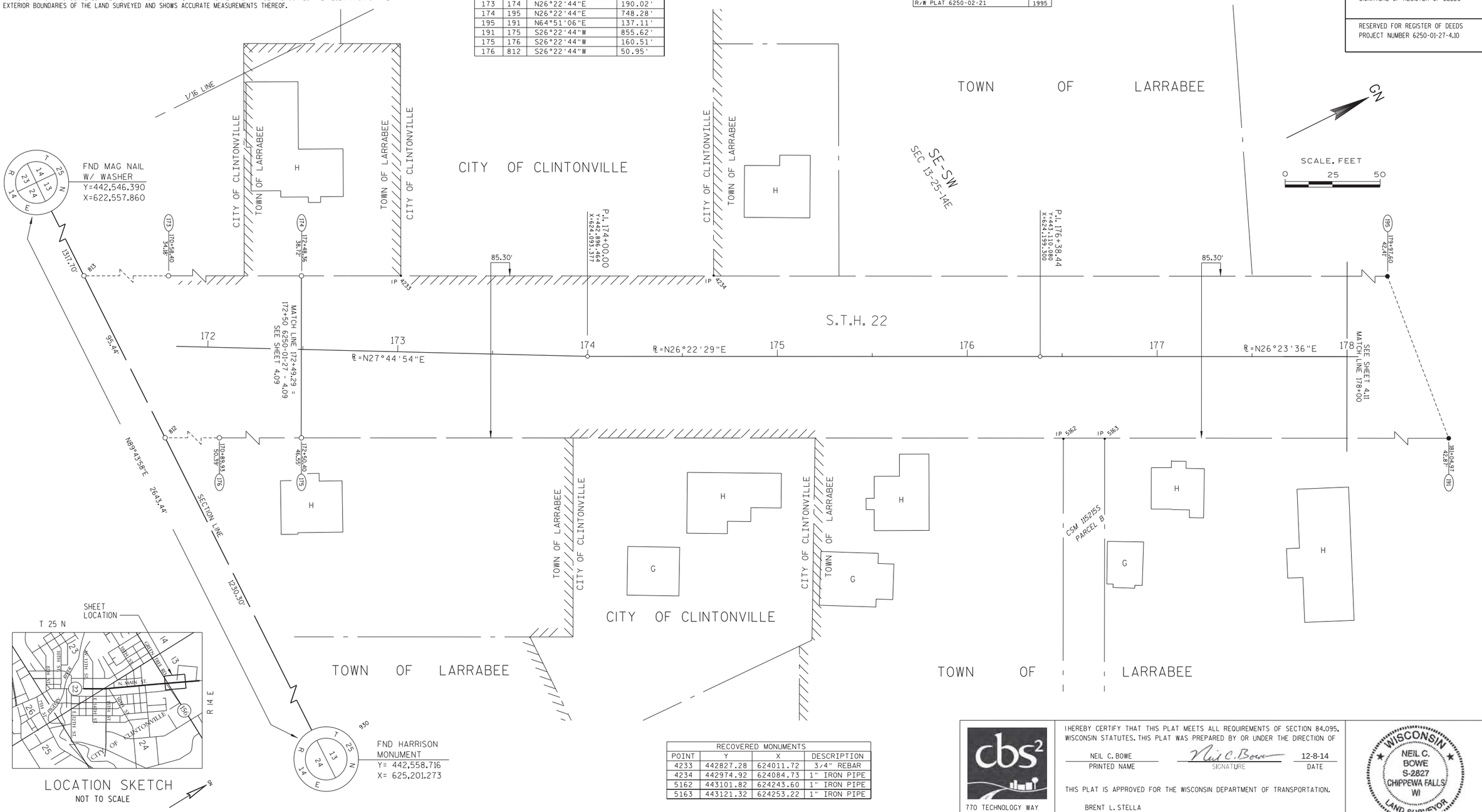
ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY, WISCONSIN AT _:_ _M ON _____ AS DOCUMENT #_____ AND FILED IN _____

_____
SIGNATURE OF REGISTER OF DEEDS

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6250-01-27-4.10

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
813	173	N26°22'44"E	64.25'
173	174	N26°22'44"E	190.02'
174	195	N26°22'44"E	748.28'
195	191	N64°51'06"E	137.11'
191	175	S26°22'44"W	855.62'
175	176	S26°22'44"W	160.51'
176	812	S26°22'44"W	50.95'

BASIS OF R/W	
INSTRUMENT	YEAR
CSM 11521SS	2012
R/W PLAT 6250-02-21	1995



RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
4233	442827.28	624011.72	3/4" REBAR
4234	442974.92	624084.73	1" IRON PIPE
5162	443101.82	624243.60	1" IRON PIPE
5163	443121.32	624253.22	1" IRON PIPE

cbs²
770 TECHNOLOGY WAY
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

NEIL C. BOWE	Neil C. Bowe	12-8-14
PRINTED NAME	SIGNATURE	DATE

THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

BRENT L. STELLA		
PRINTED NAME	SIGNATURE	DATE

WISCONSIN
NEIL C. BOWE
S-2827
CHIPPEWA FALLS
WI
LAND SURVEYOR

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\RDSTH22010.dgn
APPRAISAL PLAT DATE :

PLOT DATE : 12/8/2014

TRANSPORTATION PROJECT PLAT NO: 6250-01-27 - 4.11

C CLINTONVILLE, MAIN STREET (13TH STREET TO STH 156)

PART OF CERTIFIED SURVEY MAP NO. 1063, LOCATED IN AND INCLUDING THE SE 1/4 OF THE SW 1/4, SECTION 13, T25N, R14E, TOWN OF LARRABEE, WAUPACA COUNTY, WISCONSIN.

RELOCATION ORDER STH 22, WAUPACA COUNTY

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

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

BASIS OF R/W	
CSM 1063	2012
R/W PLAT 6250-02-21	1995

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	
99	KENNETH J. DEAN	FEE/TLE	5	-	5	115
100	JAMES R. VANDERWALKER	FEE/TLE	1670	-	1670	2280

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY, WISCONSIN AT ..:.. _M ON _____ AS DOCUMENT #_____ AND FILED IN _____

_____
SIGNATURE OF REGISTER OF DEEDS

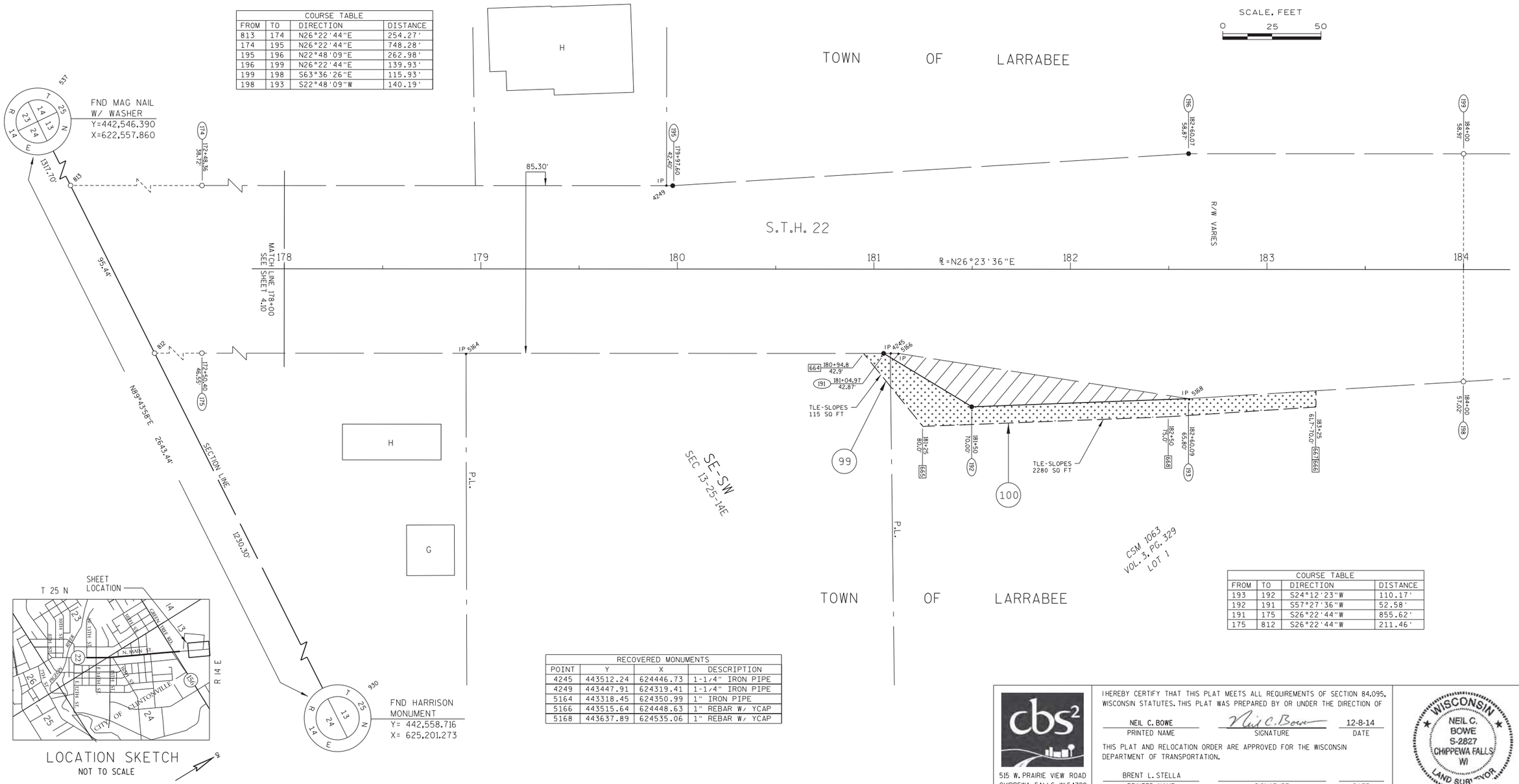
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 6250-01-27-4.11

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN WAUPACA COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 816845.

GN

SCALE, FEET
0 25 50

COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
813	174	N26°22'44"E	254.27'
174	195	N26°22'44"E	748.28'
195	196	N22°48'09"E	262.98'
196	199	N26°22'44"E	139.93'
199	198	S63°36'26"E	115.93'
198	193	S22°48'09"W	140.19'



COURSE TABLE			
FROM	TO	DIRECTION	DISTANCE
193	192	S24°12'23"W	110.17'
192	191	S57°27'36"W	52.58'
191	175	S26°22'44"W	855.62'
175	812	S26°22'44"W	211.46'

RECOVERED MONUMENTS			
POINT	Y	X	DESCRIPTION
4245	443512.24	624446.73	1-1/4" IRON PIPE
4249	443447.91	624319.41	1-1/4" IRON PIPE
5164	443318.45	624350.99	1" IRON PIPE
5166	443515.64	624448.63	1" REBAR W/ YCAP
5168	443637.89	624535.06	1" REBAR W/ YCAP

LOCATION SKETCH
NOT TO SCALE

cbs²
515 W. PRAIRIE VIEW ROAD
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

NEIL C. BOWE (PRINTED NAME) — Neil C. Bowe (SIGNATURE) — 12-8-14 (DATE)

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

BRENT L. STELLA (PRINTED NAME) — _____ (SIGNATURE) — _____ (DATE)

WISCONSIN
NEIL C. BOWE
S-2827
CHIPPEWA FALLS, WI
LAND SURVEYOR

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\RDSTH22011.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 12/8/2014
WISDOT/CADDS SHEET 70

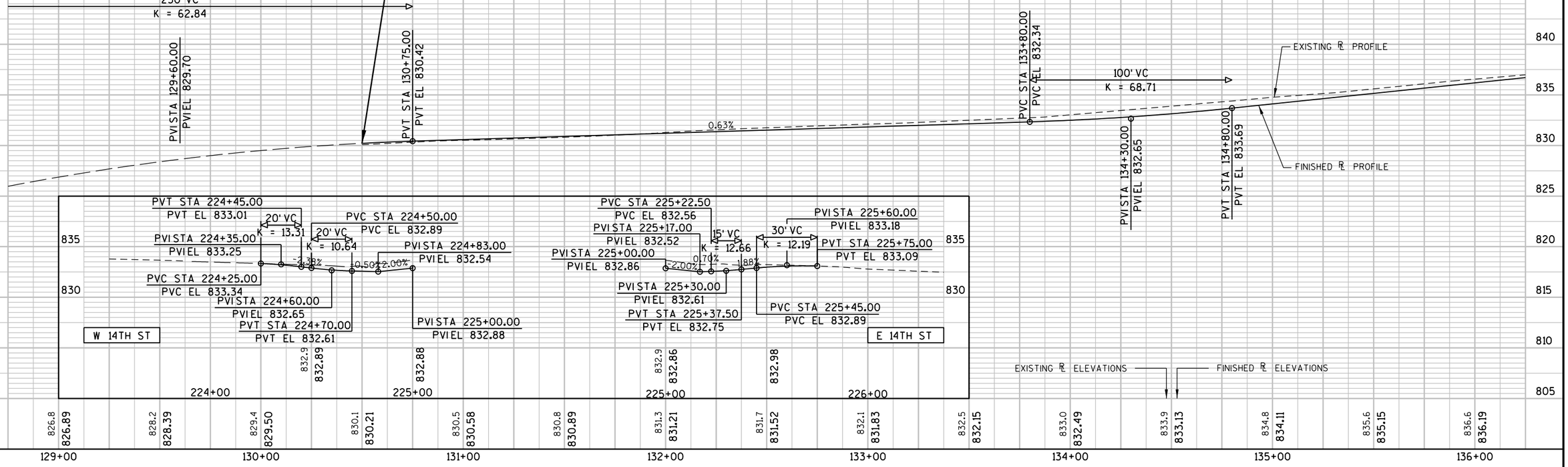
RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	134+08.16 STH 22	32.0' LT	15.0'	Y= 439364.485 X= 622243.620
CC2	134+67.36 STH 22	32.0' LT	15.0'	Y= 439415.009 X= 622274.474
CC3	134+68.01 STH 22	32.0' RT	15.0'	Y= 439382.204 X= 622329.431
CC4	134+06.01 STH 22	32.0' RT	15.0'	Y= 439329.290 X= 622297.117

ELEVATION TABLE			ELEVATION TABLE		
POINT	ELEVATION	COMMENTS	POINT	ELEVATION	COMMENTS
A	832.18	EOR	G	833.10	EOR
B	832.23	MOR	H	832.99	MOR
C	832.28	EOR	I	832.95	EOR
D	832.66	EOR	J	832.34	EOR
E	832.78	MOR	K	832.22	MOR
F	833.08	EOR	L	832.16	EOR

LEGEND
- (2) CURB RAMP TYPE 2
- X TREE REMOVAL

BENCHMARK TABLE			
NO.	STATION	DESCRIPTION	ELEVATION
113	130+35.58, 26.4' LT	TOP NUT ON HYD/NW QUAD OF STH 22 AND 13TH STREET	833.36
112	134+71.57, 26.4' LT	TOP NUT ON HYD/NW QUAD OF STH 22 AND 14TH STREET	836.29

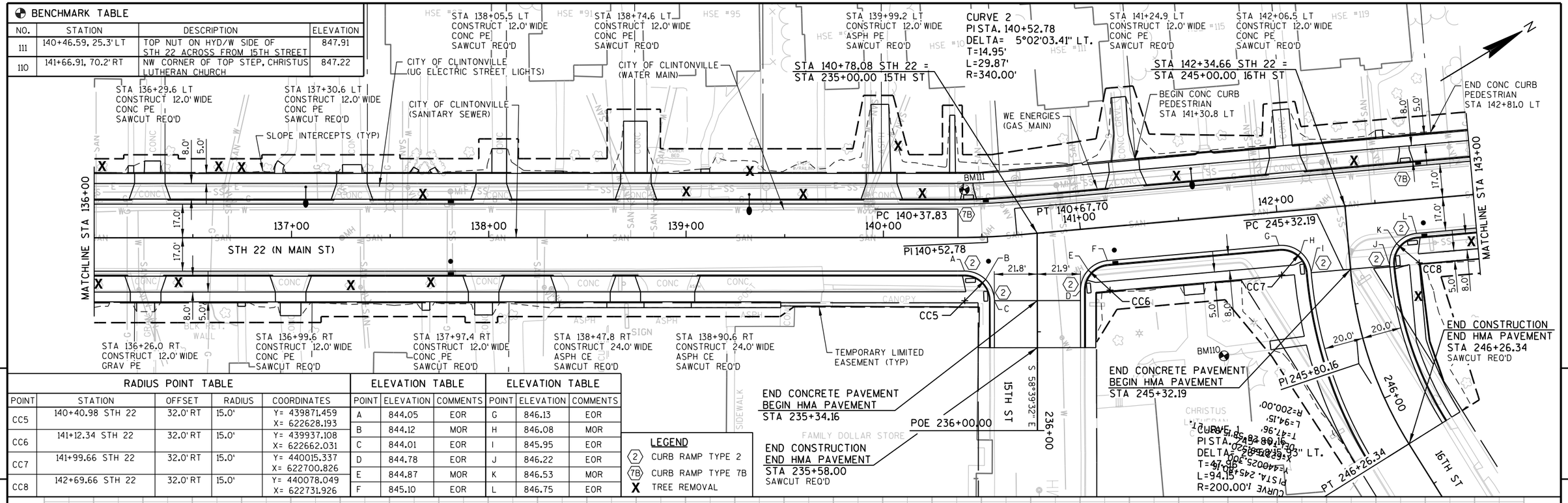
CITY OF CLINTONVILLE (UG ELECTRIC STREET LIGHTS)
SLOPE INTERCEPTS (TYP)
WE ENERGIES (GAS MAIN)
STA 132+08.0 LT CONSTRUCT 12.0' WIDE CONC CE SAWCUT REQ'D
STA 132+35.9 LT CONSTRUCT 12.0' WIDE CONC CE SAWCUT REQ'D
CITY OF CLINTONVILLE (WATER MAIN)
STA 133+01.4 LT CONSTRUCT 12.0' WIDE CONC CE SAWCUT REQ'D
BEGIN CONSTRUCTION
BEGIN HMA PAVEMENT
STA 224+25.00
SAWCUT REQ'D
END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT
STA 224+67.98
W 13TH ST
W 14TH ST
S 58°37'01" E
224+00
STA 134+37.78 STH 22 =
STA 225+00.00 W 14TH ST
BM113
BM112
CC1
CC2
CC3
CC4
+50.0
+40.2
14.6'
8.0'
5.0'
17.0'
129+00
130+00
131+00
132+00
133+00
134+00
135+00
STH 22 (N MAIN ST)
N 31°24'42" E
MATCHLINE STA 136+00
PI 130+00.51
BEGIN PROJECT
STA 130+50.00
SAWCUT REQ'D
MATCH EXISTING
CITY OF CLINTONVILLE (SANITARY SEWER)
TEMPORARY LIMITED EASEMENT (TYP)
STA 134+37.11 STH 22 =
STA 225+00.00 E 14TH ST
END CONSTRUCTION
END HMA PAVEMENT
STA 225+75.00
SAWCUT REQ'D
END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT
STA 225+32.09
16.0'
S 58°24'48" E
E 14TH ST
226+00
STA 131+10.7 RT CONSTRUCT 22.0' WIDE ASPH CE SAWCUT REQ'D
STA 132+90.6 RT CONSTRUCT 12.0' WIDE CONC PE SAWCUT REQ'D
STA 135+25.4 RT CONSTRUCT 12.0' WIDE CONC PE SAWCUT REQ'D
STA 135+77.9 RT CONSTRUCT 19.7' WIDE CONC PE SAWCUT REQ'D



PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PLAN AND PROFILE	SHEET 150	E

BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
111	140+46.59, 25.3' LT	TOP NUT ON HYD/W SIDE OF STH 22 ACROSS FROM 15TH STREET	847.91
110	141+66.91, 70.2' RT	NW CORNER OF TOP STEP, CHRISTUS LUTHERAN CHURCH	847.22



RADIUS POINT TABLE

POINT	STATION	OFFSET	RADIUS	COORDINATES
CC5	140+40.98 STH 22	32.0' RT	15.0'	Y= 439871.459 X= 622628.193
CC6	141+12.34 STH 22	32.0' RT	15.0'	Y= 439937.108 X= 622662.031
CC7	141+99.66 STH 22	32.0' RT	15.0'	Y= 440015.337 X= 622700.826
CC8	142+69.66 STH 22	32.0' RT	15.0'	Y= 440078.049 X= 622731.926

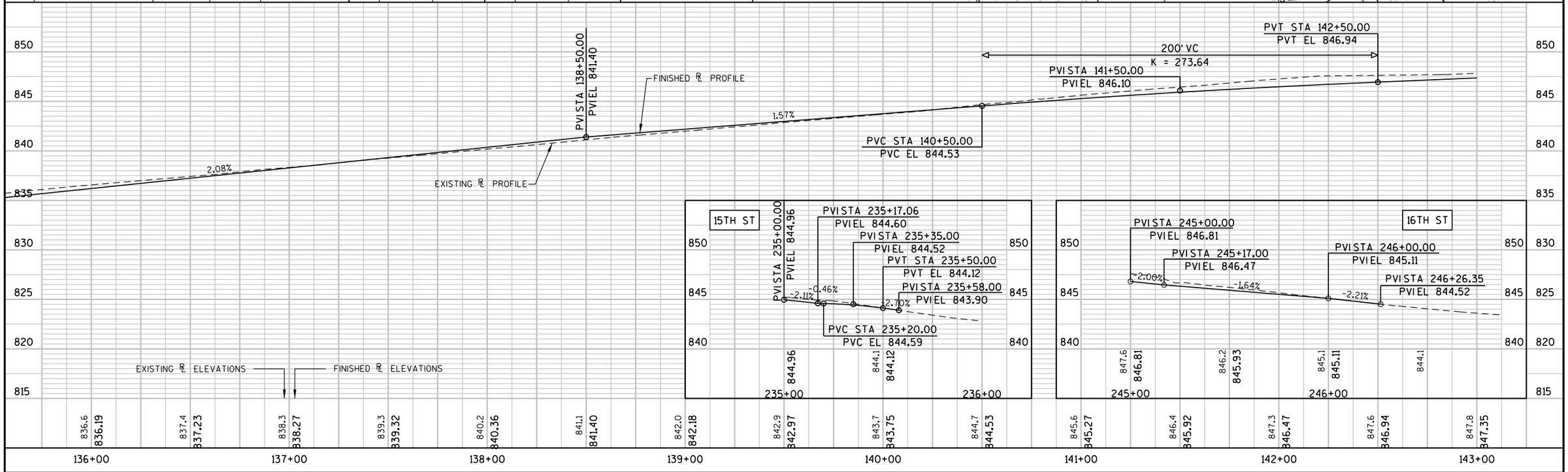
ELEVATION TABLE

POINT	ELEVATION	COMMENTS
A	844.05	EOR
B	844.12	MOR
C	844.01	EOR
D	844.78	EOR
E	844.87	MOR
F	845.10	EOR

ELEVATION TABLE

POINT	ELEVATION	COMMENTS
G	846.13	EOR
H	846.08	MOR
I	845.95	EOR
J	846.22	EOR
K	846.53	MOR
L	846.75	EOR

LEGEND
(2) CURB RAMP TYPE 2
(7B) CURB RAMP TYPE 7B
X TREE REMOVAL



PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PLAN AND PROFILE	SHEET 151	E

ELEVATION TABLE		
POINT	ELEVATION	COMMENTS
A	848.12	EOR
B	848.18	MOR
C	848.28	EOR
D	848.48	EOR
E	848.53	MOR
F	848.60	EOR

STA 143+37.8 LT
CONSTRUCT 20.0' WIDE
CONC PE
SAWCUT REQ'D

POB 254+00.00

HARRIET ST

254+00

BEGIN CONSTRUCTION
BEGIN HMA PAVEMENT
STA 254+35.00
SAWCUT REQ'D

END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT
STA 254+67.81

S 63°14'36" E

12.8' 12.8'

CC9

CC10

SLOPE INTERCEPTS (TYP)

STA 146+49.1 LT
CONSTRUCT 12.0' WIDE
CONC PE
SAWCUT REQ'D

STA 147+32.0 LT
CONSTRUCT 12.0' WIDE
ASPH PE
SAWCUT REQ'D

CITY OF CLINTONVILLE
(UG ELECTRIC STREET LIGHTS)

STA 147+55.2 LT
CONSTRUCT 12.0' WIDE
CONC PE
SAWCUT REQ'D

CITY OF CLINTONVILLE
(WATER MAIN)

STA 148+40.4 LT
CONSTRUCT 24.0' WIDE
CONC CE
SAWCUT REQ'D

STA 148+74.4 LT
CONSTRUCT 14.0' WIDE
CONC PE
SAWCUT REQ'D
SEE DETAIL

WE ENERGIES
(GAS MAIN)

STA 149+80.5 LT
CONSTRUCT 12.0' WIDE
CONC PE
SAWCUT REQ'D

BM109

MATCHLINE STA 143+00

MATCHLINE STA 150+00

144+00 145+00 146+00 147+00 148+00 149+00

STH 22 (N MAIN ST)

N 26°22'39" E

TEMPORARY LIMITED
EASEMENT (TYP)

STA 144+60.44 STH 22 =
STA 255+00.00 HARRIET ST

CITY OF CLINTONVILLE
(SANITARY SEWER)

TERRACE WIDTH WIDENS FROM
8'-9' BETWEEN DRIVEWAYS

STA 146+61.3 RT
CONSTRCUT 14.0' WIDE
CONC PE
SAWCUT REQ'D

STA 145+05.6 RT
CONSTRUCT 24.0' WIDE
ASPH/CONC CE/PE
(MATCH EXISTING MATERIAL)
SAWCUT REQ'D

STA 146+15.0 RT
CONSTRUCT 12.0' WIDE
GRAV PE
SAWCUT REQ'D

STA 147+44.3 RT
CONSTRUCT 16.0' WIDE
CONC PE
SAWCUT REQ'D

STA 147+93.9 RT
CONSTRUCT 19.0' WIDE
CONC PE
SAWCUT REQ'D

STA 148+95.9 RT
CONSTRUCT 12.0' WIDE
CONC PE
SAWCUT REQ'D

STA 149+45.7 RT
CONSTRUCT 12.0' WIDE
CONC PE
SAWCUT REQ'D

LEGEND	
(2)	CURB RAMP TYPE 2
(7B)	CURB RAMP TYPE 7B
X	TREE REMOVAL

BENCHMARK TABLE			
NO.	STATION	DESCRIPTION	ELEVATION
109	146+06.38, 23.6' LT	TOP NUT ON HYD/W SIDE OF STH 22, 75' N OF HARRIET STREET	853.41

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC9	144+32.85 STH 22	32.0' LT	15.0'	Y= 440252.686 X= 622747.094
CC10	144+88.45 STH 22	32.0' LT	15.0'	Y= 440302.498 X= 622771.796

EXISTING ℄ PROFILE

FINISHED ℄ PROFILE

0.84%

0.90%

PVI STA 144+75.00
PVI EL 848.82

HARRIET ST

PVC STA 254+50.00
PVC EL 849.05

PVI STA 254+35.00
PVI EL 849.61

30' VC
K = 10.25

PVI STA 254+83.00
PVI EL 848.35

PVI STA 255+00.00
PVI EL 848.69

3.73%

2.00%

0.88%

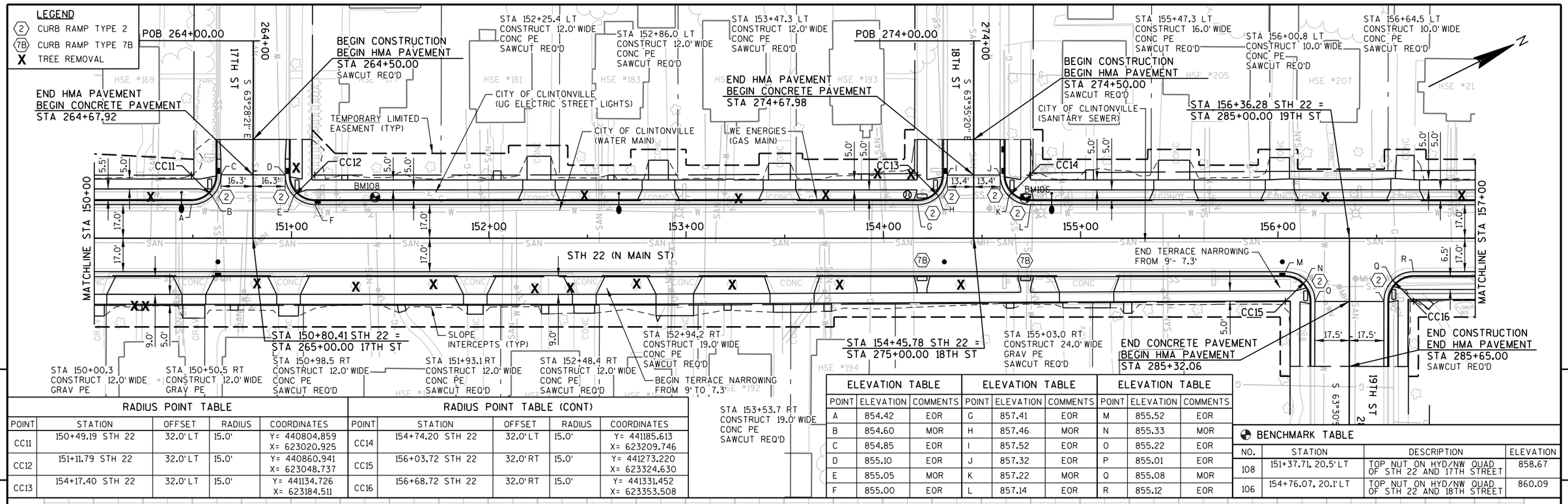
PVI STA 254+65.00
PVI EL 848.49

PVT STA 254+80.00
PVT EL 848.37

EXISTING ℄ ELEVATIONS

FINISHED ℄ ELEVATIONS

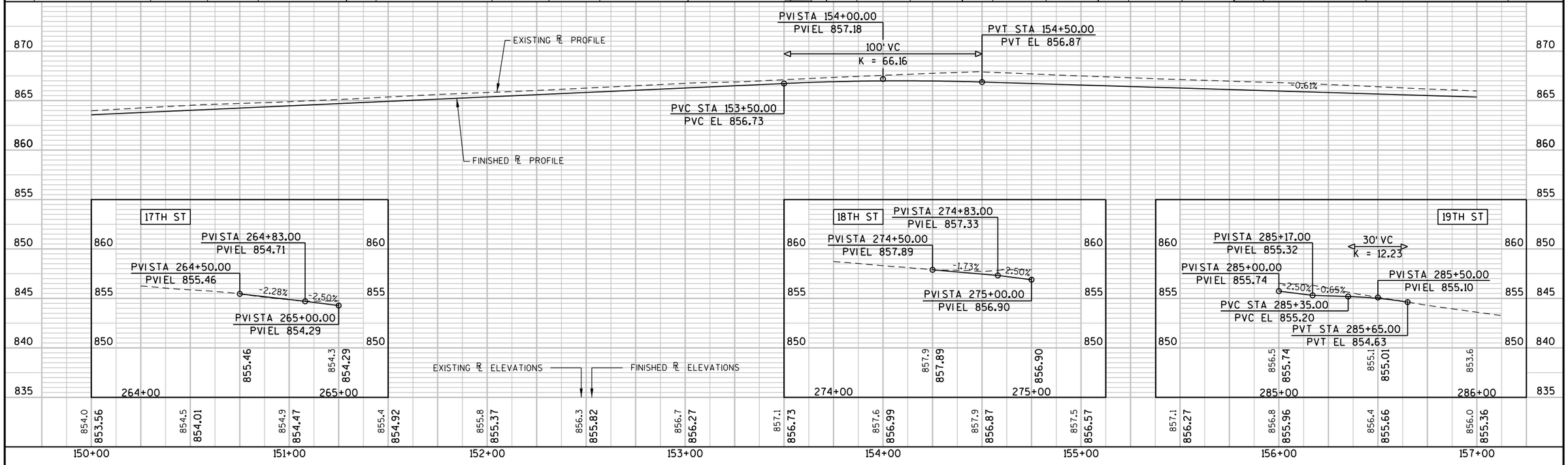
| | | | |



RADIUS POINT TABLE					RADIUS POINT TABLE (CONT)				
POINT	STATION	OFFSET	RADIUS	COORDINATES	POINT	STATION	OFFSET	RADIUS	COORDINATES
CC11	150+49.19 STH 22	32.0' LT	15.0'	Y= 440804.859 X= 623020.925	CC14	154+74.20 STH 22	32.0' LT	15.0'	Y= 441185.613 X= 623209.746
CC12	151+11.79 STH 22	32.0' LT	15.0'	Y= 440860.941 X= 623048.737	CC15	156+03.72 STH 22	32.0' RT	15.0'	Y= 441273.220 X= 623324.630
CC13	154+17.40 STH 22	32.0' LT	15.0'	Y= 441134.726 X= 623184.511	CC16	156+68.72 STH 22	32.0' RT	15.0'	Y= 441331.452 X= 623353.508

ELEVATION TABLE			ELEVATION TABLE			ELEVATION TABLE		
POINT	ELEVATION	COMMENTS	POINT	ELEVATION	COMMENTS	POINT	ELEVATION	COMMENTS
A	854.42	EOR	G	857.41	EOR	M	855.52	EOR
B	854.60	MOR	H	857.46	MOR	N	855.33	MOR
C	854.85	EOR	I	857.52	EOR	O	855.22	EOR
D	855.10	EOR	J	857.32	EOR	P	855.01	EOR
E	855.05	MOR	K	857.22	MOR	Q	855.08	MOR
F	855.00	EOR	L	857.14	EOR	R	855.12	EOR

BENCHMARK TABLE			
NO.	STATION	DESCRIPTION	ELEVATION
108	151+37.71, 20.5' LT	TOP NUT ON HYD/NW QUAD OF STH 22 AND 17TH STREET	858.67
106	154+76.07, 20.1' LT	TOP NUT ON HYD/NW QUAD OF STH 22 AND 18TH STREET	860.09



PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PLAN AND PROFILE	SHEET 153	E

LEGEND
(2) CURB RAMP TYPE 2
(7B) CURB RAMP TYPE 7B
X TREE REMOVAL

END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT
STA 294+67.92

BEGIN CONSTRUCTION
BEGIN HMA PAVEMENT
STA 294+45.00
SAWCUT REQ'D

STA 159+41.01 STH 22 =
STA 305+00.00 N PARK ST

CITY OF CLINTONVILLE
(UG ELECTRIC STREET LIGHTS)

CITY OF CLINTONVILLE
(OH ELECTRIC & STREET LIGHTS)

FRONTIER COMMUNICATIONS
(OH CABLES ATTACHED TO
ELECTRIC POLES)
CHARTER COMMUNICATIONS
(OH CABLES ATTACHED TO
ELECTRIC POLES)

SLOPE INTERCEPTS (TYP)

TEMPORARY LIMITED
EASEMENT (TYP)

CITY OF CLINTONVILLE
(WATER MAIN)

20TH ST
294+00
S 63°30'14" E
HSE #241
HSE #215
BM105
CC17
CC18
MATCHLINE STA 157+00
MATCHLINE STA 164+00
158+00
159+00
160+00
161+00
162+00
163+00
STH 22 (N MAIN ST)
N 26°21'23" E

STA 158+05.73 STH 22 =
STA 295+00.00 20TH ST

CC19
CC20

STA 158+25.2 RT
CONSTRUCT 12.0' WIDE
CONC PE
SAWCUT REQ'D

FORM CURB AND
GUTTER AROUND
MH CASTING AS
NECESSARY

END CONSTRUCTION
END HMA PAVEMENT
STA 305+80.00
SAWCUT REQ'D

END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT
STA 305+32.03

+55.0

SAWCUT REQ'D

N PARK ST
306+00
S 63°35'

HSE #240

STA 160+66.8 RT
CONSTRUCT 16.0 WIDE
CONC PE
SAWCUT REQ'D

WE ENERGIES
(GAS MAIN)

CITY OF CLINTONVILLE
(SANITARY SEWER)

STA 161+79.4 RT
CONSTRUCT 14.0' WIDE
ASPH PE
SAWCUT REQ'D

STA 162+04.4 RT
CONSTRUCT 12.0' WIDE
ASPH PE
SAWCUT REQ'D

STA 162+71.1 RT
CONSTRUCT 12.0' WIDE
ASPH PE
SAWCUT REQ'D

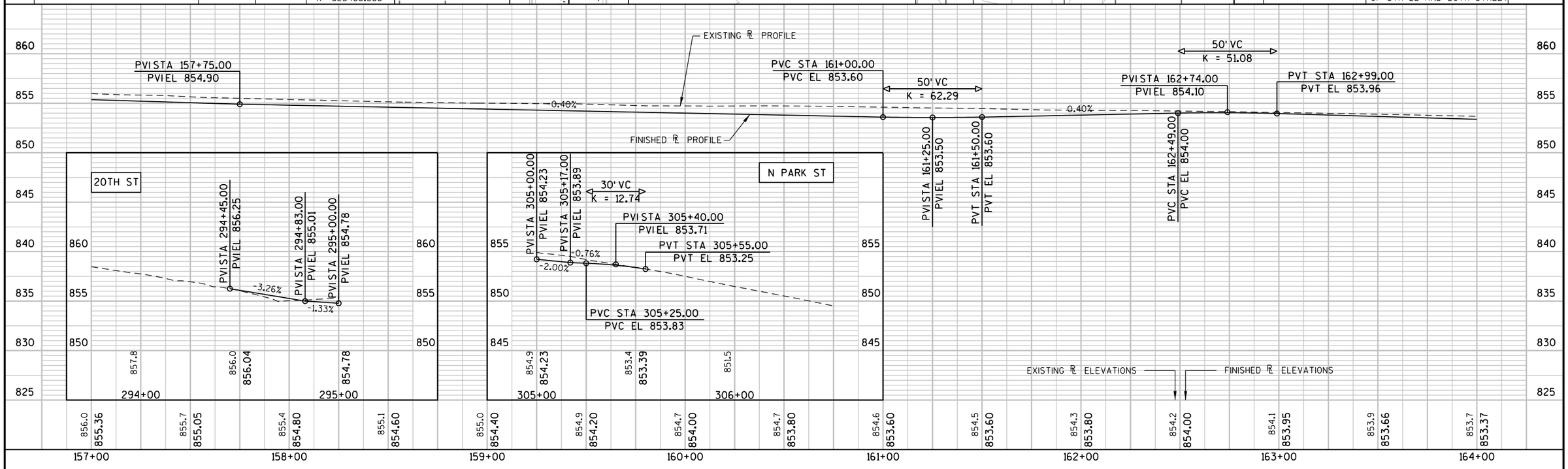
STA 162+97.7 RT
CONSTRUCT 12.0' WIDE
CONC PE
SAWCUT REQ'D

STA 163+77.9 RT
CONSTRUCT 12.0' WIDE
CONC PE
SAWCUT REQ'D

ELEVATION TABLE			ELEVATION TABLE		
POINT	ELEVATION	COMMENTS	POINT	ELEVATION	COMMENTS
A	855.34	EOR	G	854.02	EOR
B	855.38	MOR	H	853.88	MOR
C	855.52	EOR	I	853.66	EOR
D	855.10	EOR	J	853.43	EOR
E	854.85	MOR	K	853.72	MOR
F	854.68	EOR	L	853.77	EOR

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC17	157+72.79 STH 22	32.0' LT	15.0'	Y= 441453.116 X= 623342.405
CC18	158+38.79 STH 22	32.0' LT	15.0'	Y= 441512.250 X= 623371.717
CC19	159+09.58 STH 22	32.0' RT	15.0'	Y= 441547.260 X= 623460.487
CC20	159+72.38 STH 22	32.0' RT	15.0'	Y= 441603.532 X= 623488.368

BENCHMARK TABLE			
NO.	STATION	DESCRIPTION	ELEVATION
105	157+74.43, 21.6' LT	TOP NUT ON HYD/SW QUAD OF STH 22 AND 20TH STREET	857.87

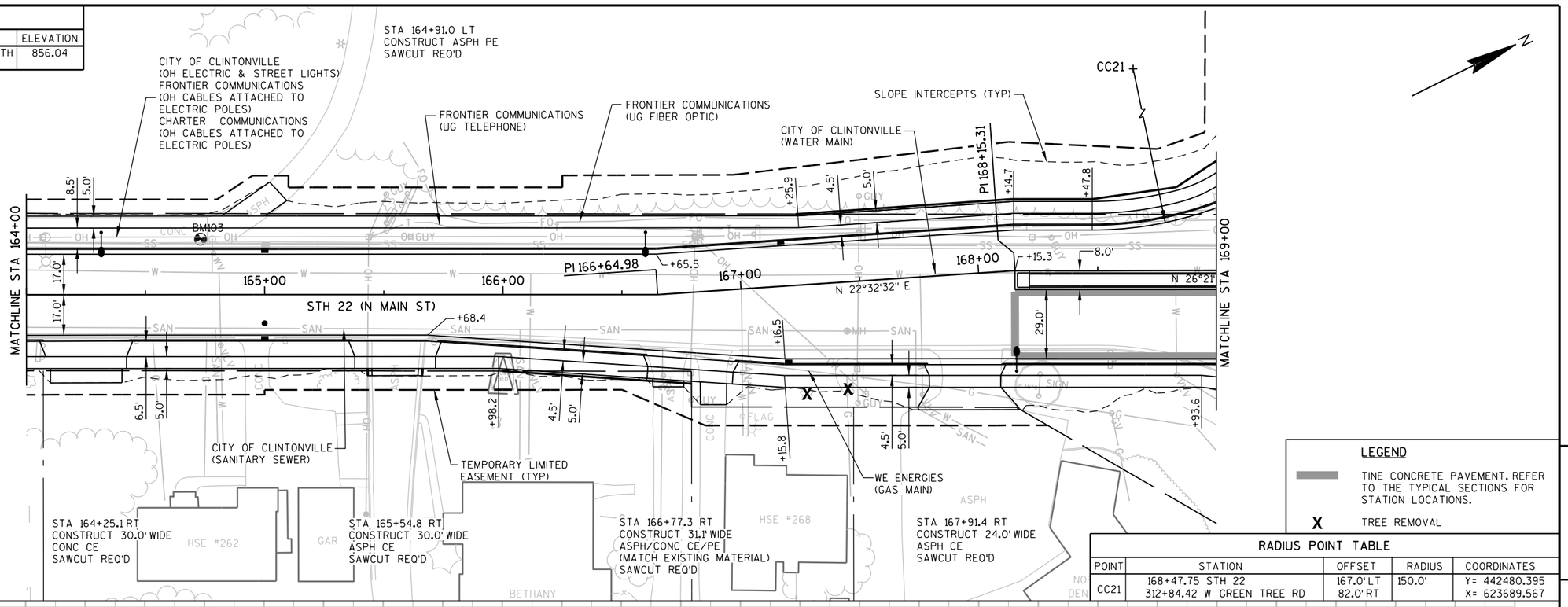


PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PLAN AND PROFILE	SHEET 154	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\PPSTH2206.dgn
PLOT DATE : 4/11/2016
PLOT BY : $$...plotuser...$$ PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
WISDOT/CADDS SHEET 40

BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
103	164+78.06, 23.3'LT	TOP NUT HYD/W SIDE OF STH 22, N OF MIDDLE SCHOOL	856.04



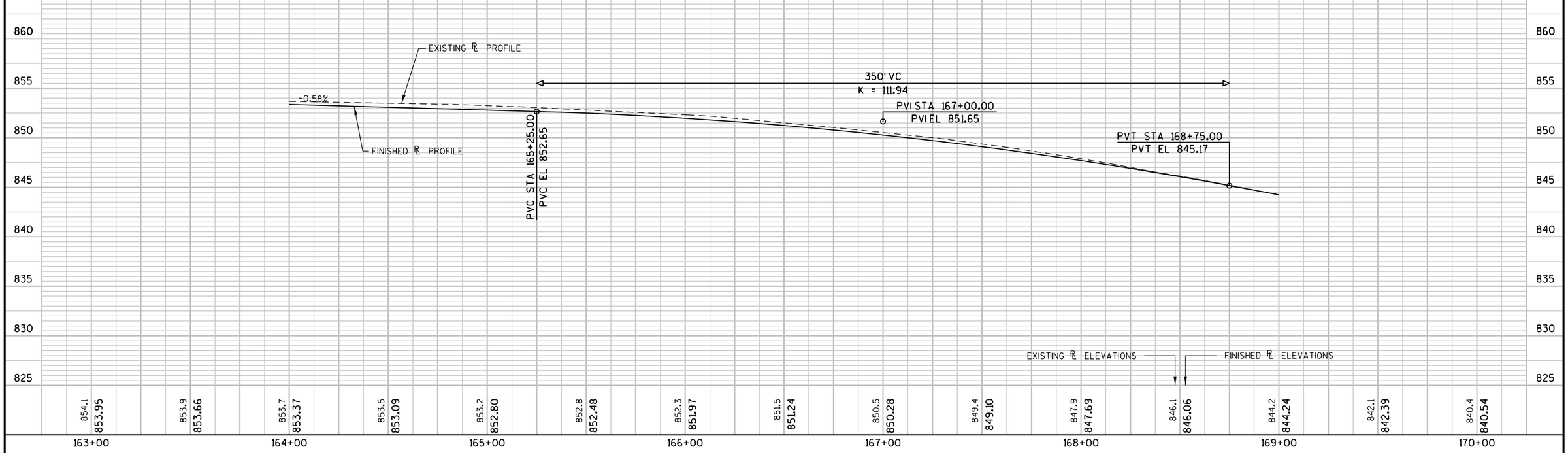
LEGEND

TINE CONCRETE PAVEMENT. REFER TO THE TYPICAL SECTIONS FOR STATION LOCATIONS.

X TREE REMOVAL

RADIUS POINT TABLE

POINT	STATION	OFFSET	RADIUS	COORDINATES
CC21	168+47.75 STH 22 312+84.42 W GREEN TREE RD	167.0' LT 82.0' RT	150.0'	Y= 442480.395 X= 623689.567



PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PLAN AND PROFILE	SHEET 155	E

END HMA PAVEMENT
BEGIN CONCRETE PAVEMENT
STA 313+98.21

314+00

313+80.69

W GREEN TREE RD

PT 314+34.08

S 72°38'37" E

FRONTIER COMMUNICATIONS
(UG TELEPHONE)

STA 171+88.7 LT
CONSTRUCT 35.5' WIDE
ASPH CE
SAWCUT REQ'D

STA 172+29.6 LT
CONSTRUCT 15.2' WIDE
GRAV PE

TEMPORARY LIMITED
EASEMENT (TYP)

STA 169+83.41 STH 22 =
STA 315+00.00 W GREEN TREE RD

BM101

BM102

MATCHLINE STA 169+00

170+00

171+00

172+00

173+00

174+00

175+00

176+00

29.0'

+28.8

+12.3

+16.8

18.0'

+0.2

N 27°44'54" E

N 26°22'29" E

STH 22 (N MAIN ST)

PI 174+00.00

17.0'

+99.6

+4.1

10.0'

CITY OF CLINTONVILLE
(SANITARY SEWER)

CITY OF CLINTONVILLE
(WATER MAIN)

STA 174+75.8 LT
CONSTRUCT 18.5' WIDE
GRAV PE

EROSION CONTROL LEGEND

- SILT FENCE
- RIPRAP LIGHT
- PERMANENT DITCH CHECKS (SEE DETAIL)

LEGEND

- TINE CONCRETE PAVEMENT. REFER TO THE TYPICAL SECTIONS FOR STATION LOCATIONS.
- X TREE REMOVAL
- (2) CURB RAMP TYPE 2
- (5) CURB RAMP TYPE 5

END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT
STA 171+42.30

SOD FLUME

STA 171+56.4 RT
CONSTRUCT 32.1' WIDE
ASPH CE
SAWCUT REQ'D

STA 172+15.4 RT
CONSTRUCT 22.6' WIDE
ASPH PE
SAWCUT REQ'D

WE ENERGIES (GAS MAIN)

SLOPE INTERCEPTS (TYP)

STA 173+74.4 RT
CONSTRUCT 18.0' WIDE
GRAV PE

STA 174+30.1 RT
CONSTRUCT 20.0' WIDE
GRAV PE

STA 175+04.4 RT
CONSTRUCT GRAV PE
MATCH EXISTING WIDTH

STA 175+34.8 RT
CONSTRUCT GRAV PE
MATCH EXISTING WIDTH

END ROADWAY CONSTRUCTION
STA 175+00.00
SAWCUT REQ'D
MATCH EXISTING

FRONTIER COMMUNICATIONS
(UG FIBER OPTIC)

SOD FLUME

PC 315+76.31

(E GREEN TREE RD)
STH 156

316+00

QWEST
(UG FIBER OPTIC)

END CONCRETE PAVEMENT
BEGIN HMA PAVEMENT
STA 316+13.31

5

5

BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
102	169+44.97, 15.1' LT	TOP NUT ON HYD/SW QUAD OF STH 22 AND GREEN TREE ROAD	845.47
101	170+61.76, 36.6' LT	PK NAIL IN PP NW QUAD OF STH 22 AND GREEN TREE ROAD	839.81

850
845
840
835
830
825
820
815

EXISTING ℄ PROFILE

-3.70%

FINISHED ℄ PROFILE

PVC STA 171+20.00
PVC EL 836.09

530' VC
K = 178.67

PVI STA 173+85.00
PVI EL 826.28

EXISTING ℄ ELEVATIONS

FINISHED ℄ ELEVATIONS

846.1	846.06	844.2	844.24	842.1	842.39	840.4	840.54	838.2	838.69	836.4	836.83	834.9	835.01	833.3	833.31	831.8	831.75	830.4	830.34	829.1	829.06	828.0	827.92	827.0	826.92	826.1	826.06	825.3	825.35	824.8	824.77

169+00 170+00 171+00 172+00 173+00 174+00 175+00 176+00

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PLAN AND PROFILE	SHEET 156	E

EROSION CONTROL LEGEND
- SILT FENCE
- RIPRAP LIGHT
- PERMANENT DITCH CHECKS (SEE DETAIL)

MATCHLINE STA 176+00

PI 176+38.40

STH 22 (N MAIN ST)

N 26°23'36" E

177+00 178+00 179+00 180+00 181+00 182+00 183+00

STA 176+84.3 RT
CONSTRUCT CONC PE
MATCH EXISTING WIDTH
SAWCUT REQ'D

STA 177+40.6 RT
CONSTRUCT GRAV PE
MATCH EXISTING WIDTH

STA 178+84.3 RT
CONSTRUCT GRAV PE
MATCH EXISTING WIDTH

SLOPE INTERCEPTS (TYP)

BEGIN V-DITCH
STA 181+58.91, 57.4' RT

STA 181+34.8 RT
CONSTRUCT GRAV PE
MATCH EXISTING WIDTH

TEMPORARY LIMITED EASEMENT (TYP)

END PROJECT
STA 182+86.82

840 835 830 825 820 815 810 805

EXISTING GROUND PROFILE ALONG DITCHLINE

PVI STA 182+75, 60.5' RT
PVI EL 812.85

-1.00%

FINISHED BOTTOM OF DITCH PROFILE -4.32%

STA 182+86.82, 65.1' RT
EL 812.34

STA 181+58.91, 57.4' RT
EL 814.01

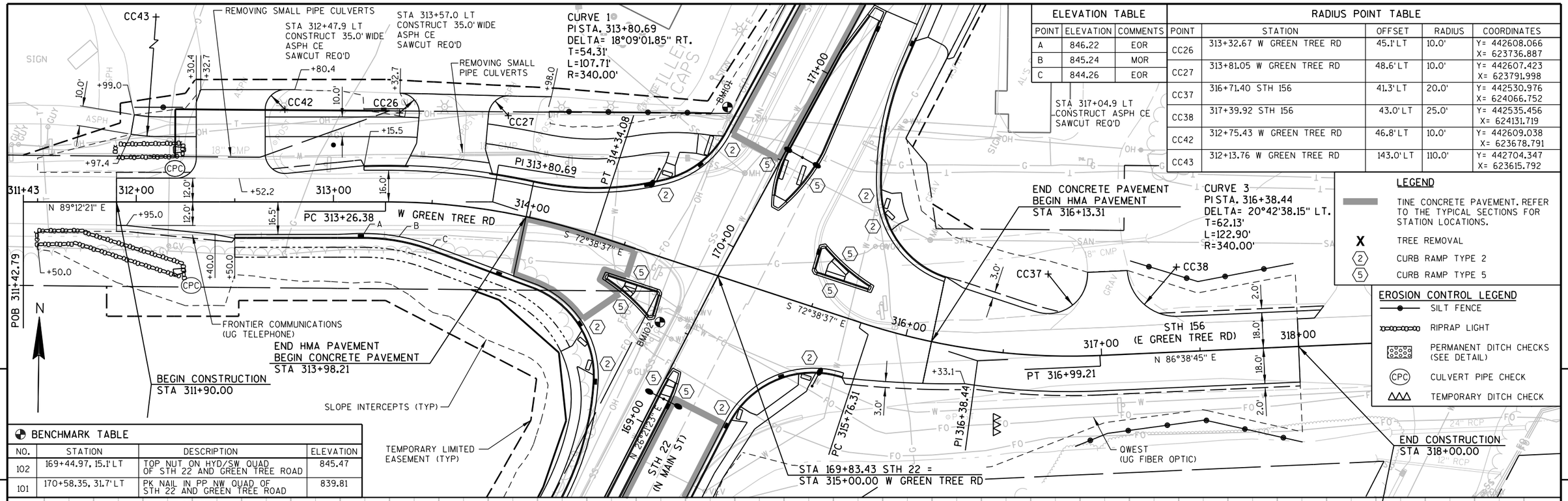
EXISTING ℄ ELEVATIONS — FINISHED ℄ ELEVATIONS

815.0 813.60 813.7 813.10

835 830 825 820 815 810 805 800

182+00 183+00

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PLAN AND PROFILE	SHEET 157	E



ELEVATION TABLE		
POINT	ELEVATION	COMMENTS
A	846.22	EOR
B	845.24	MOR
C	844.26	EOR

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC26	313+32.67 W GREEN TREE RD	45.1'LT	10.0'	Y= 442608.066 X= 623736.887
CC27	313+81.05 W GREEN TREE RD	48.6'LT	10.0'	Y= 442607.423 X= 623791.998
CC37	316+71.40 STH 156	41.3'LT	20.0'	Y= 442530.976 X= 624066.752
CC38	317+39.92 STH 156	43.0'LT	25.0'	Y= 442535.456 X= 624131.719
CC42	312+75.43 W GREEN TREE RD	46.8'LT	10.0'	Y= 442609.038 X= 623678.791
CC43	312+13.76 W GREEN TREE RD	143.0'LT	110.0'	Y= 442704.347 X= 623615.792

LEGEND

- TINE CONCRETE PAVEMENT. REFER TO THE TYPICAL SECTIONS FOR STATION LOCATIONS.
- X — TREE REMOVAL
- (2) — CURB RAMP TYPE 2
- (5) — CURB RAMP TYPE 5

EROSION CONTROL LEGEND

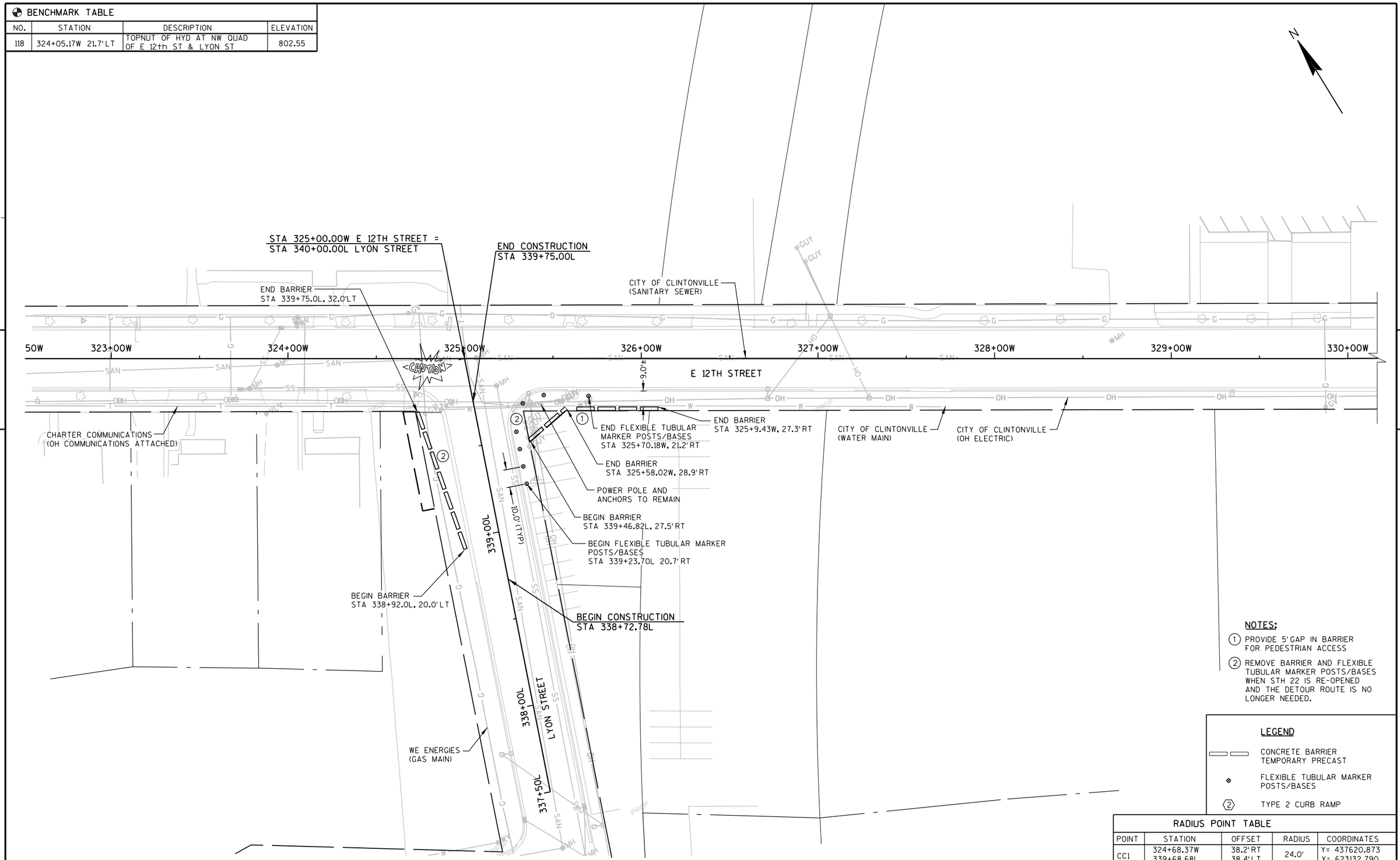
- SILT FENCE
- RIPRAP LIGHT
- PERMANENT DITCH CHECKS (SEE DETAIL)
- (CPC) — CULVERT PIPE CHECK
- TEMPORARY DITCH CHECK

BENCHMARK TABLE			
NO.	STATION	DESCRIPTION	ELEVATION
102	169+44.97, 15.1'LT	TOP NUT ON HYD/SW QUAD OF STH 22 AND GREEN TREE ROAD	845.47
101	170+58.35, 31.7'LT	PK NAIL IN PP NW QUAD OF STH 22 AND GREEN TREE ROAD	839.81

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PLAN AND PROFILE	SHEET 158	E

BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
118	324+05.17W 21.7'LT	TOPNUT OF HYD AT NW QUAD OF E 12th ST & LYON ST	802.55



NOTES:

1. PROVIDE 5' GAP IN BARRIER FOR PEDESTRIAN ACCESS
2. REMOVE BARRIER AND FLEXIBLE TUBULAR MARKER POSTS/BASES WHEN STH 22 IS RE-OPENED AND THE DETOUR ROUTE IS NO LONGER NEEDED.

LEGEND

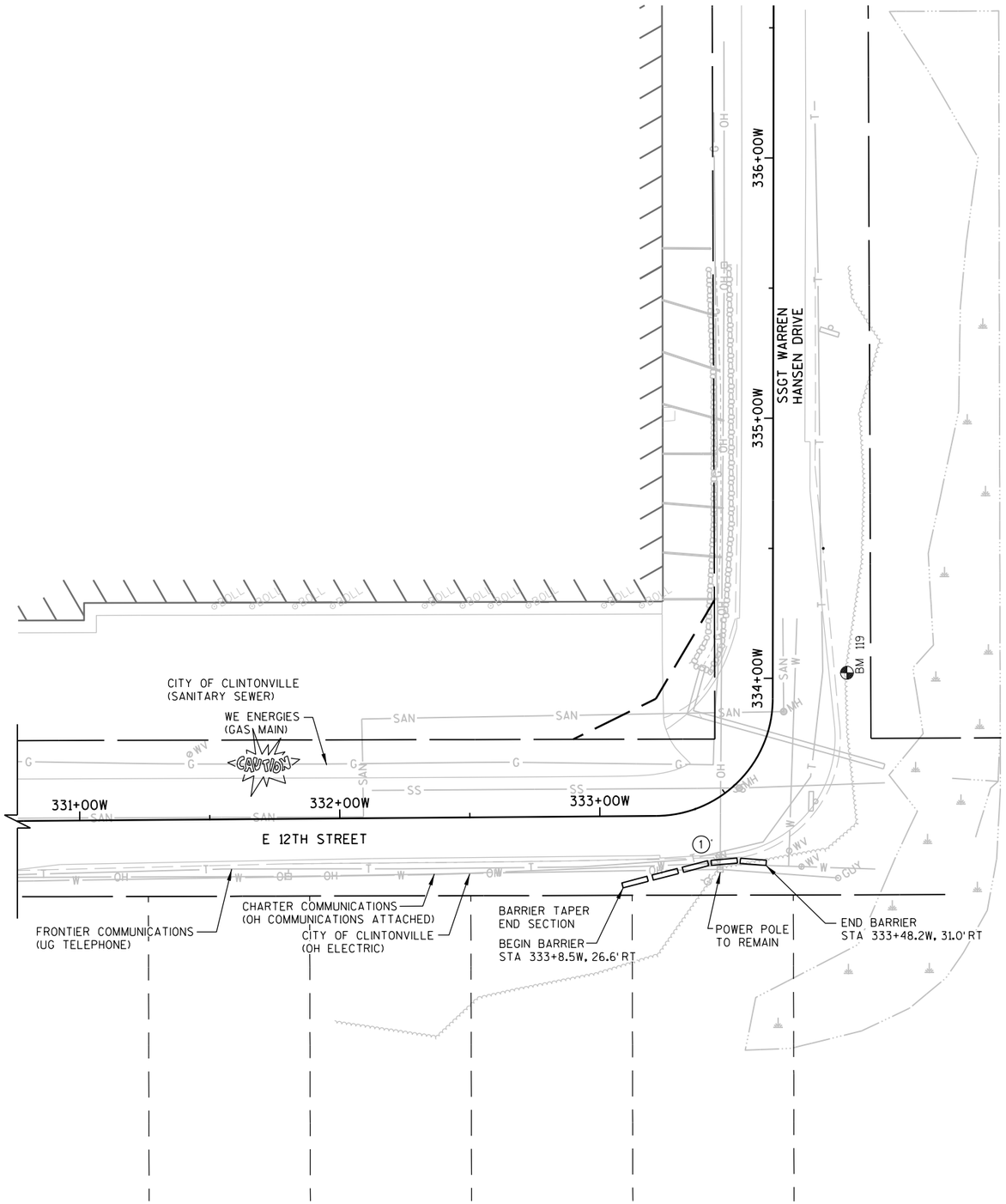
- CONCRETE BARRIER TEMPORARY PRECAST
- FLEXIBLE TUBULAR MARKER POSTS/BASES
- (2) TYPE 2 CURB RAMP

RADIUS POINT TABLE

POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	324+68.37W 339+68.68L	38.2'RT 38.4'LT	24.0'	Y= 437620.873 X= 623132.790

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	DETOUR IMPROVEMENT PLAN - PRIOR TO STH 22 CLOSURE	SHEET 159	E

BENCHMARK TABLE			
NO.	STATION	DESCRIPTION	ELEVATION
119	334+02.18W, 28.5' RT	SPIKE IN BASE OF 18" TREE EAST OF SSGT WARREN HANSEN DR.	798.18



CURVE 2
PI STA. 333+66.43W
DELTA= 89°27'40.65" LT.
T=44.58'
L=70.26'
R=45.00'

NOTES:

(1) REMOVE BARRIER WHEN STH 22 IS RE-OPENED AND THE DETOUR ROUTE IS NO LONGER NEEDED.

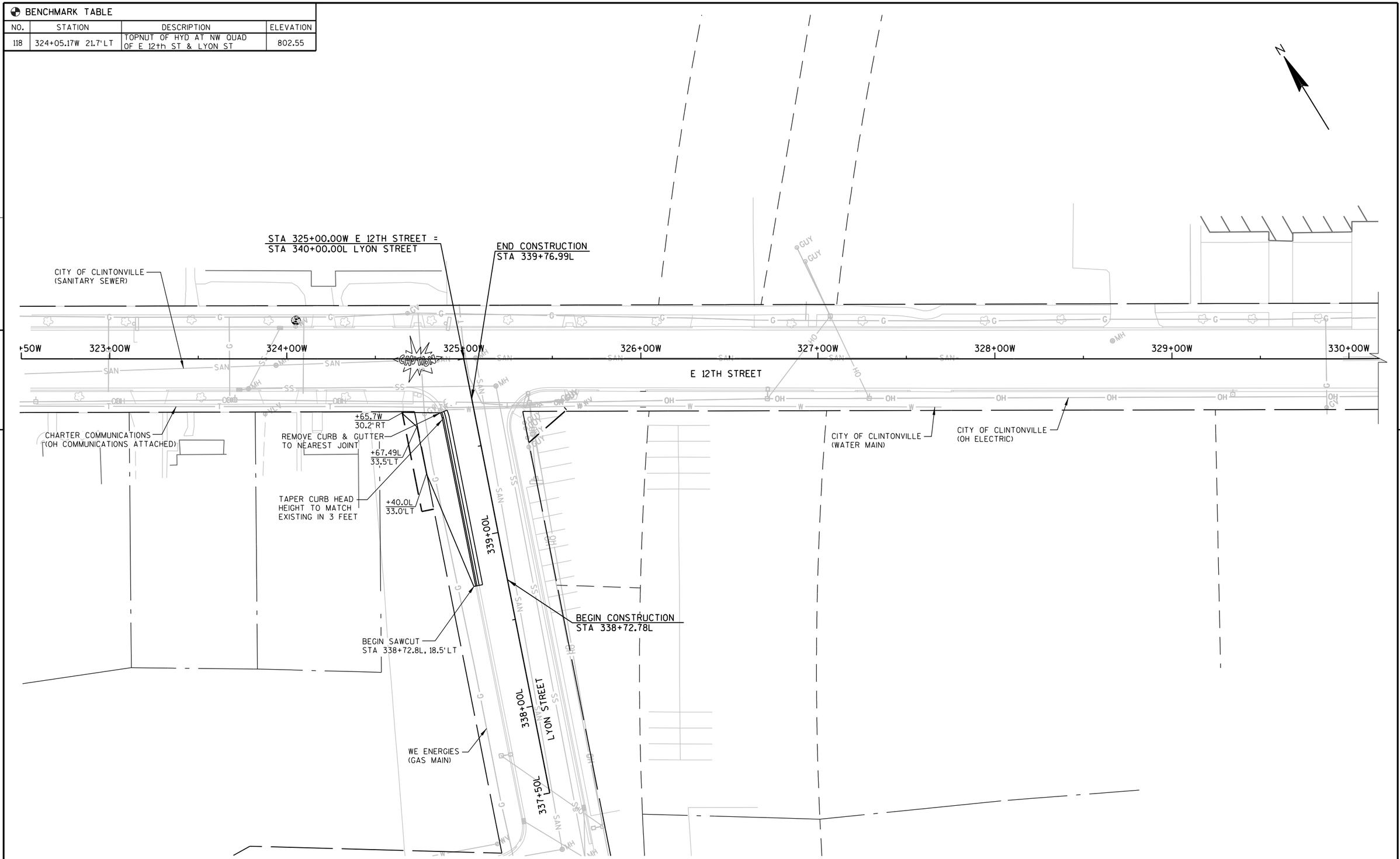
LEGEND

CONCRETE BARRIER TEMPORARY PRECAST

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC2	333+17.18W E 12TH ST	16.8' LT	45.0'	Y= 437222.974 X= 623917.623

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	DETOUR IMPROVEMENT PLAN - PRIOR TO STH 22 CLOSURE	SHEET 160	E

BENCHMARK TABLE			
NO.	STATION	DESCRIPTION	ELEVATION
118	324+05.17W 21.7'LT	TOPNUT OF HYD AT NW QUAD OF E 12th ST & LYON ST	802.55

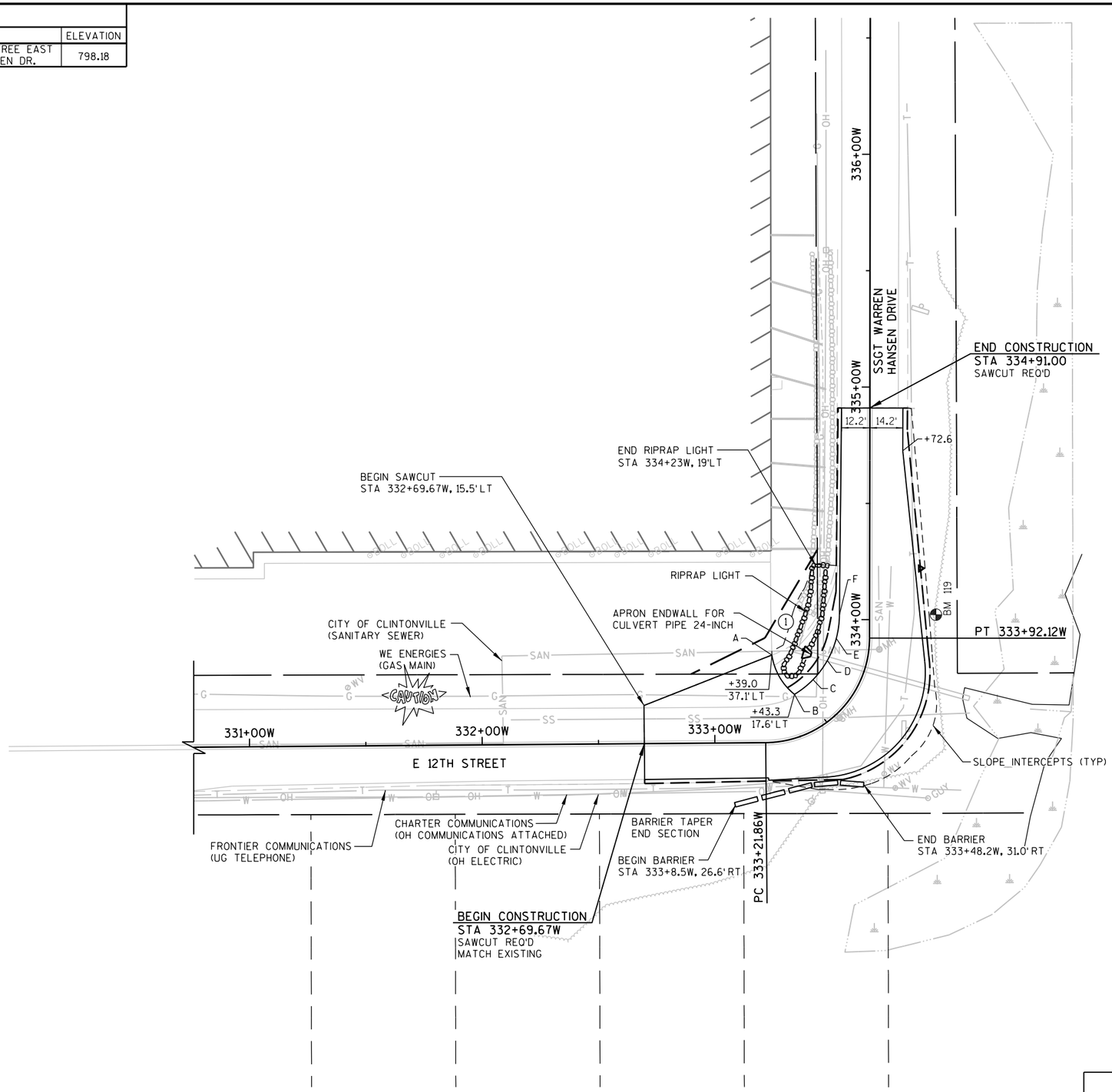


PROJECT NO:6250-01-78	HWY:STH 22	COUNTY:WAUPACA	DETOUR IMPROVEMENT PLAN - AFTER STH 22 IS RE-OPENED	SHEET 161	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\PPSTH22DETOUR02-78.dgn PLOT DATE : 4/11/2016 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

BENCHMARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
119	334+02.18W, 28.5' RT	SPIKE IN BASE OF 18" TREE EAST OF SSGT WARREN HANSEN DR.	798.18



CURVE 2
PI STA. 333+66.43W
DELTA= 89°27'40.65" LT.
T=44.58'
L=70.26'
R=45.00'

NOTES:

(1) REMOVE CULVERT PIPE TEMPORARY 18-INCH AFTER STH 22 IS RE-OPENED. (SEE DETAIL)

STATION/OFFSET TABLE

POINT	STATION	OFFSET
A	333+39.00W	37.1'LT
B	333+43.62W	17.6'LT
C	333+60.14W	17.6'LT
D	333+76.56W	16.4'LT
E	333+91.81W	14.3'LT
F	334+02.04W	13.0'LT

LEGEND

CONCRETE BARRIER TEMPORARY PRECAST (TO BE REMOVED AFTER STH 22 IS RE-OPENED)

RIPRAP LIGHT

RADIUS POINT TABLE

POINT	STATION	OFFSET	RADIUS	COORDINATES
CC2	333+17.18W E 12TH ST	16.8'LT	45.0'	Y= 437222.974 X= 623917.623

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	DETOUR IMPROVEMENT PLAN - AFTER STH 22 IS RE-OPENED	SHEET 162	E

RADIUS POINT TABLE				
POINT	STATION	OFFSET	RADIUS	COORDINATES
CC1	336+69.09 STH 156 101+76.35 INDUSTRIAL AVENUE	83.0' LT 86.9' RT	70.0'	Y= 442661.814 X= 626057.971

LEGEND

SILT FENCE

N

STA 335+82.91 STH 156 =
STA 100+94.11 INDUSTRIAL AVE

BEGIN CONSTRUCTION
BEGIN HMA PAVEMENT
STA 101+05.36

END CONSTRUCTION
END HMA PAVEMENT
STA 102+69.33

335+00

+33.2

+25.4

+59.4

16.0'

12.6'

100+00 101+00 102+00 103+00 104+00 105+00 106+00

N 0°14'31" W

INDUSTRIAL AVENUE

14.0'

+5.6

+9.3

+2.2

+69.4
17.3' RT

SLOPE INTERCEPTS (TYP)

SIGN

336+00

S 89°43'15" E

+69.0

13.1'

CC1

SOIL STABILIZER TYPE B

337+00

STH 156

WETLAND BOUNDARY

338+00

FLAG

PRIOR TO CLOSING STH 22 / STH 156 INTERSECTION

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	DETOUR IMPROVEMENT PLAN	SHEET 163	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\PPSTH22DETOUR03-78.dgn PLOT DATE : 4/11/2016 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

NOTES:

(1) REMOVE ASPHALTIC SURFACE TO PRE-WIDENING LOCATION.

LEGEND

SILT FENCE

N

STA 335+82.91 STH 156 =
STA 100+94.11 INDUSTRIAL AVE

335+00

BEGIN CONSTRUCTION
BEGIN HMA PAVEMENT
STA 101+05.36

END CONSTRUCTION
END HMA PAVEMENT
STA 102+69.33

+33.2

SAWCUT TO REMOVE
ASPHALT SURFACE

100+00 101+00 102+00 103+00 104+00 105+00 106+00

11.6'

12.0'

+5.6

N 0°14'31" W

INDUSTRIAL AVENUE

336+00

S 89°43'15" E

SAWCUT TO REMOVE
ASPHALT SURFACE

SLOPE INTERCEPTS (TYP)

SIGN

+69.0

12.1'

337+00

STH 156

WETLAND BOUNDARY

FLAG

338+00

AFTER STH 22 / STH 156 INTERSECTION REOPENED

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	DETOUR IMPROVEMENT PLAN	SHEET 164	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\PPSTH22DETOUR04-78.dgn PLOT DATE : 4/11/2016 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

Standard Detail Drawing List

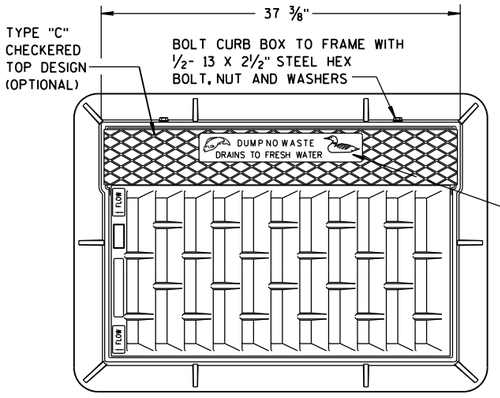
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08A08-01	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08A09-01	CATCH BASINS 2X3-FT AND 2.5X3-FT
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08B10-01	MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT
08D01-18	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-16A	CURB RAMPS TYPES 1 AND 1-A
08D05-16B	CURB RAMPS TYPES 2 AND 3
08D05-16C	CURB RAMPS TYPES 4A AND 4A1
08D05-16D	CURB RAMPS TYPE 4B AND 4B1
08D05-16E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
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
09B02-09	CONDUIT
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C14-02	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-02	LIGHTING CONTROL CABINET 120/240 VOLT
09E01-14D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
11B02-02	CONCRETE MEDIAN NOSE
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
13C18-03A	CONCRETE PAVEMENT JOINTING
13C18-03B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-03C	CONCRETE PAVEMENT JOINT TIES
13C18-03D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
14A02-01	TREE PLANTING DETAIL
14B07-14A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12A	PAVEMENT MARKING SYMBOLS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C11-06	FLEXIBLE TUBULAR MARKER POST
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C27-01	DOUBLE ARROW WARNING SIGN PLACEMENT
15C29-03A	BICYCLE LANE MARKING
15C29-03C	URBAN BICYCLE LANE MARKING
15C29-03D	URBAN BICYCLE LANE MARKING
15C29-03E	PAVEMENT MARKING FOR BIKE LANES
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D30-02A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-02B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-02C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

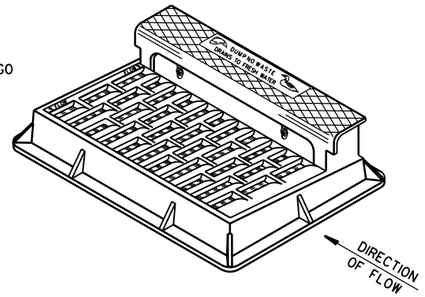
Standard Detail Drawing List

15D38-01B	ATTACHMENT OF SIGNS TO POSTS
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS

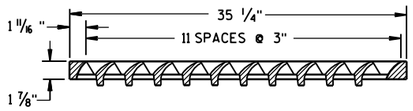
6

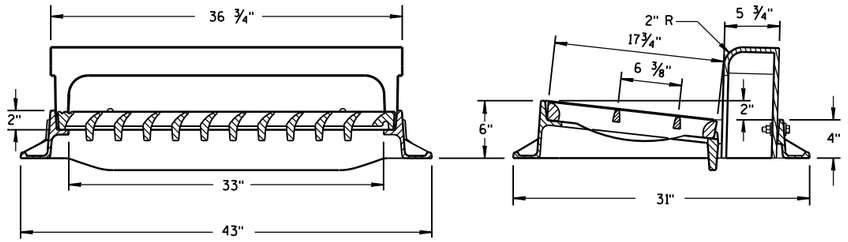


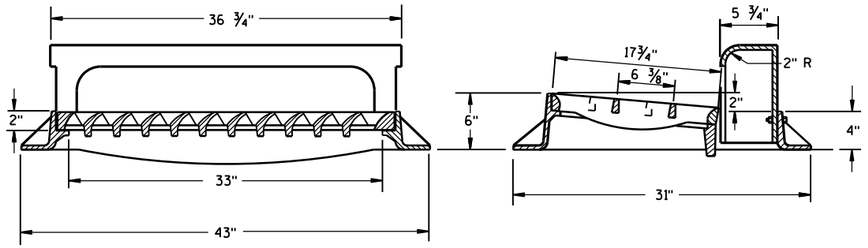
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

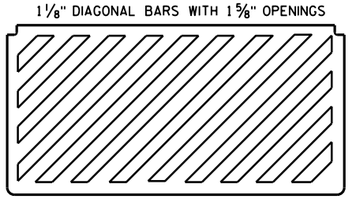






TYPE "H"

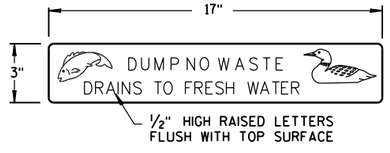
NOTE: EITHER CASTING IS ACCEPTABLE



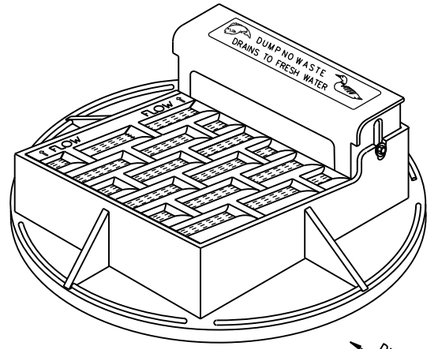
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

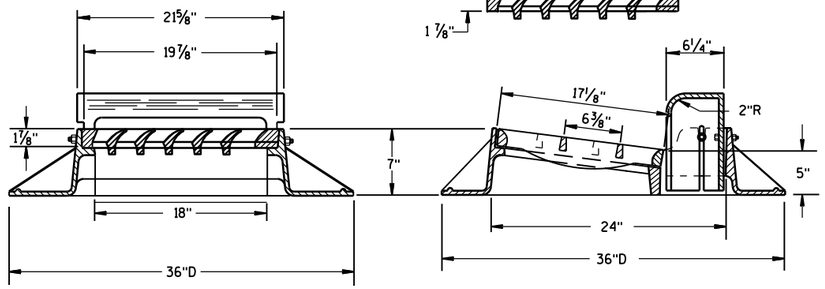


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



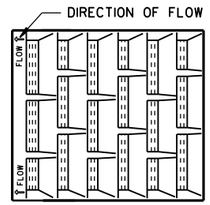
TYPE "A"

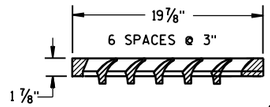
GENERAL NOTES

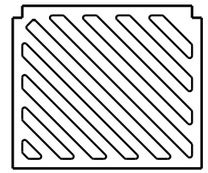
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



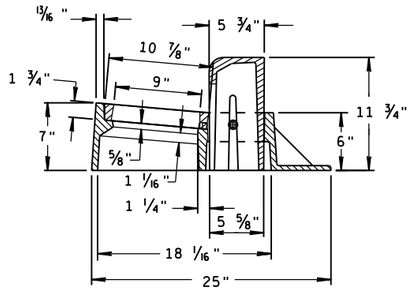


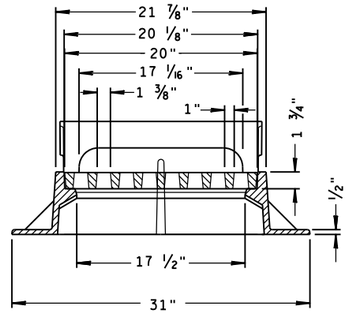


SPECIAL GRATE FOR TYPE "A" COVER

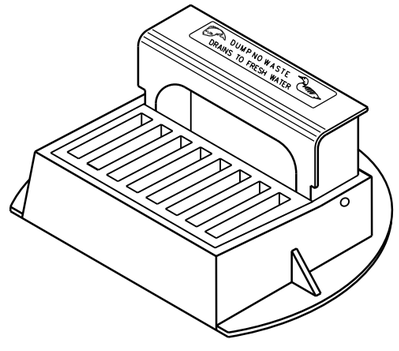
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"



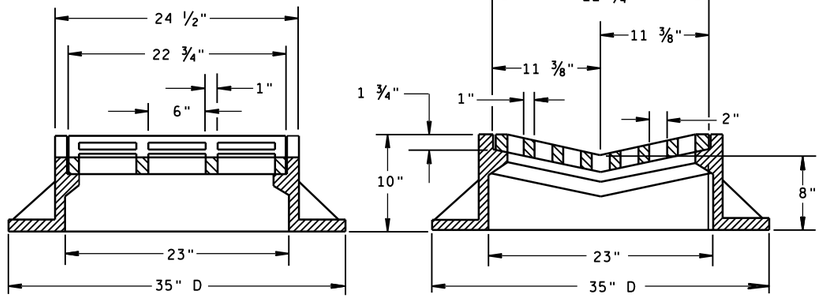
INLET COVERS TYPE A, H, A-S, H-S & Z

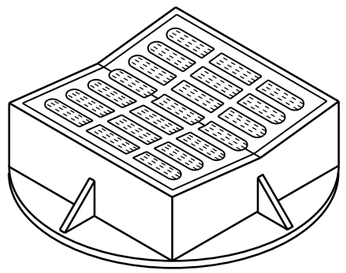
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

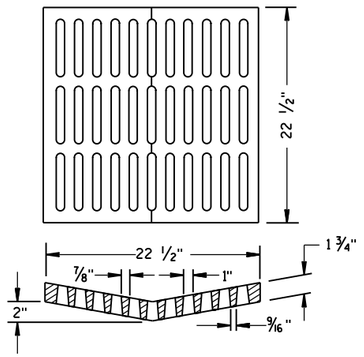
6

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





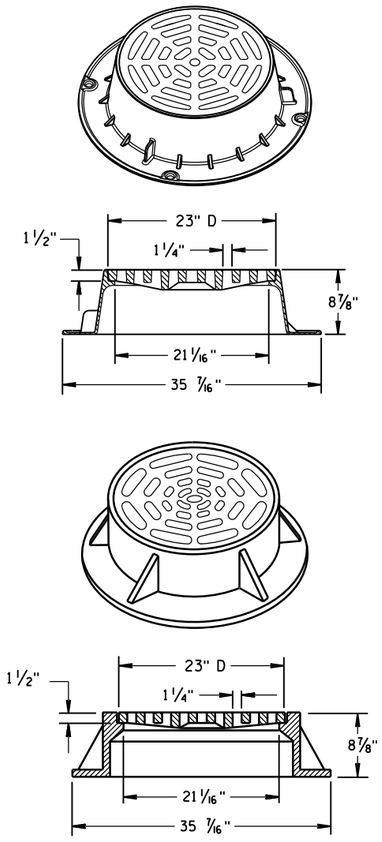
TYPE "B"



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"

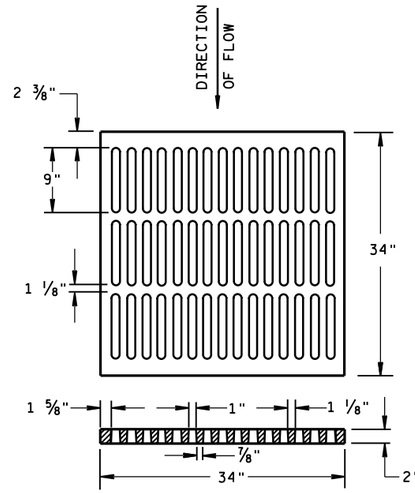
NOTE: EITHER CASTING IS ACCEPTABLE

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.

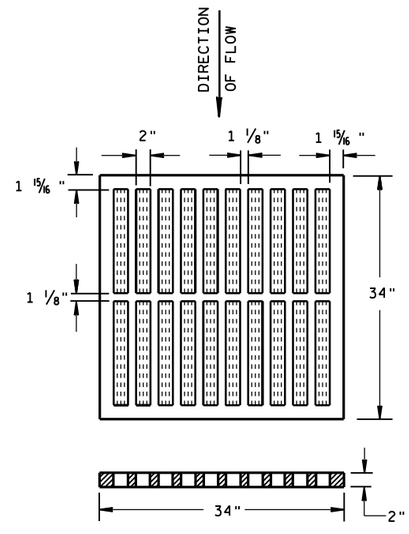
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED

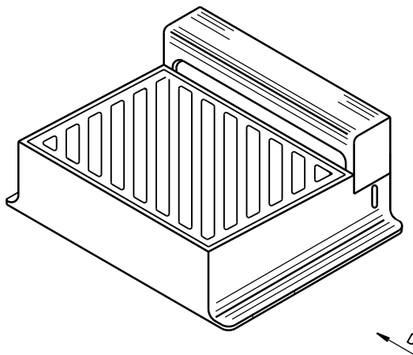
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



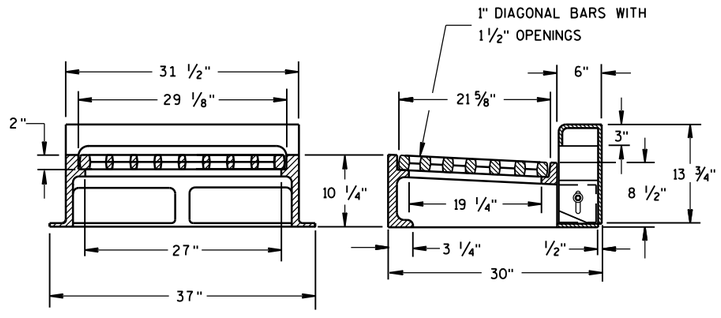
TYPE "MS"

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

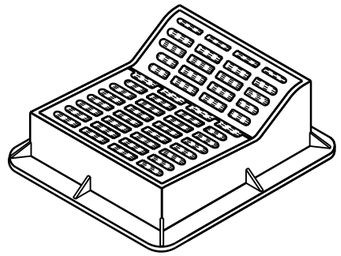
11/27/2013 — DATE

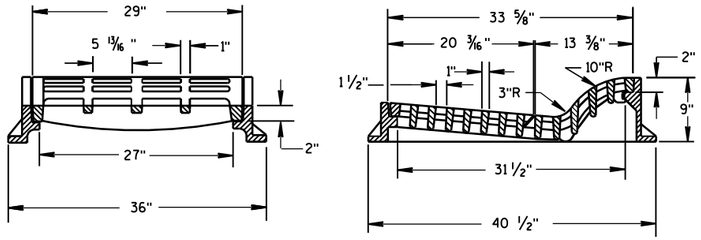
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

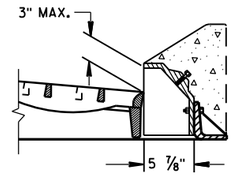
S.D.D. 8 A 5-19b





TYPE "F"

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



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

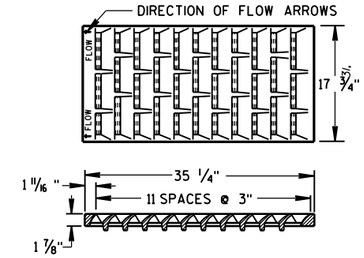
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

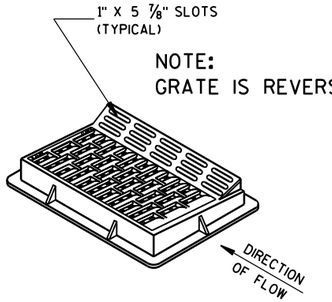
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

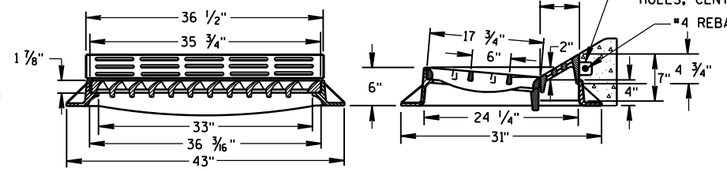
GENERAL NOTES

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

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



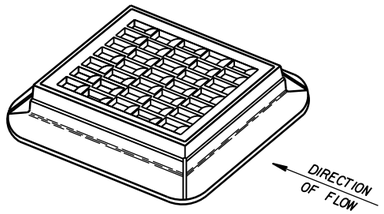


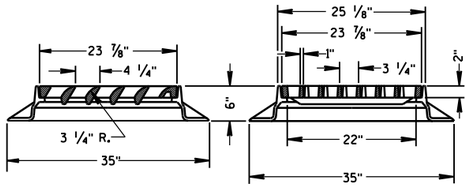


TYPE "HM"

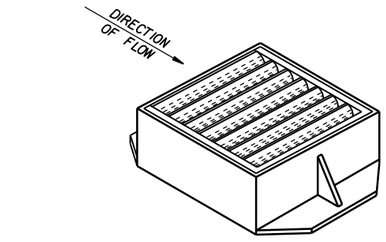
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

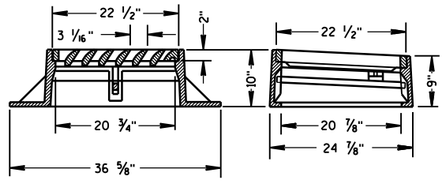
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE





TYPE "S"





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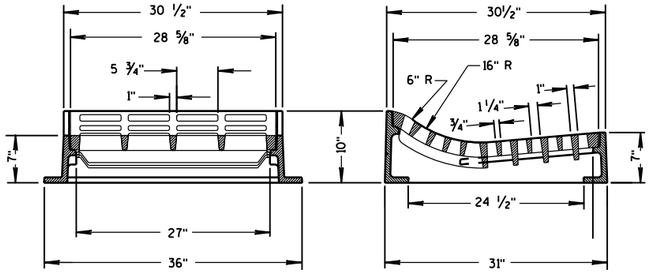
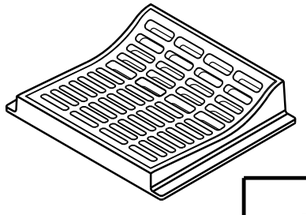




TYPE "T"

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

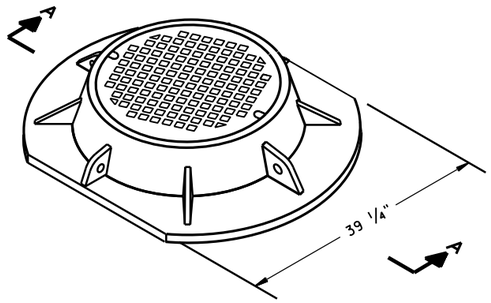
APPROVED
11/27/2013
DATE

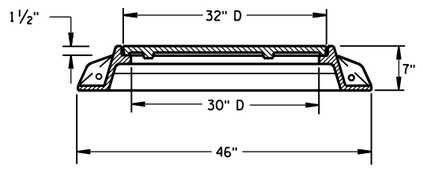
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

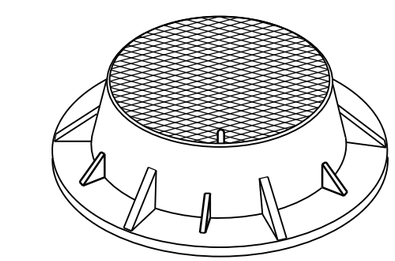
6

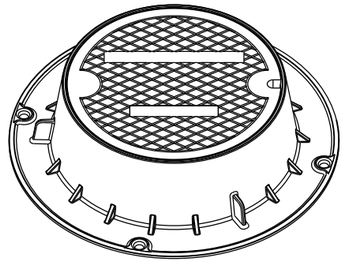
S.D.D. 8 A 5-19c

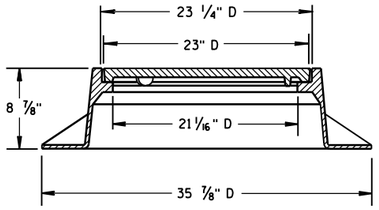


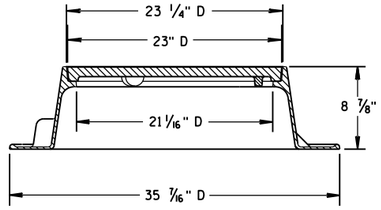


SECTION A-A
TYPE "K"









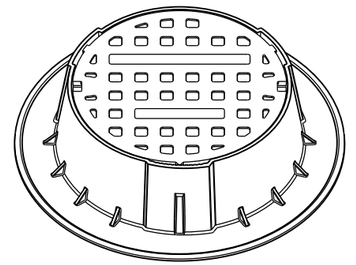
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

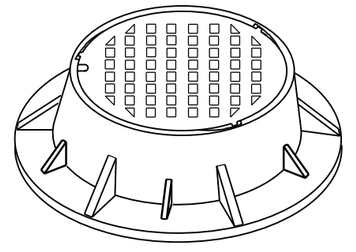
GENERAL NOTES

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.

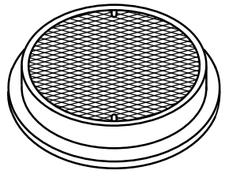
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

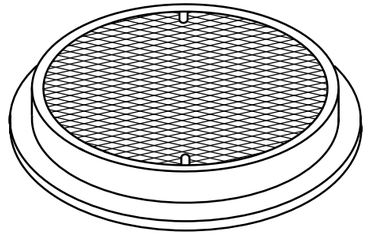
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

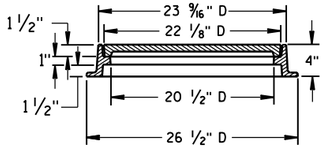




TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE







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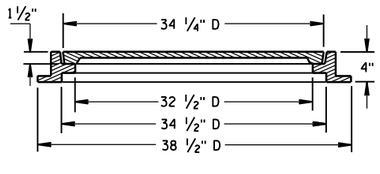
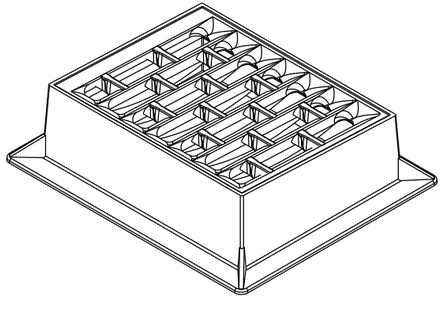
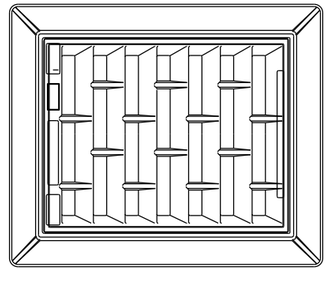
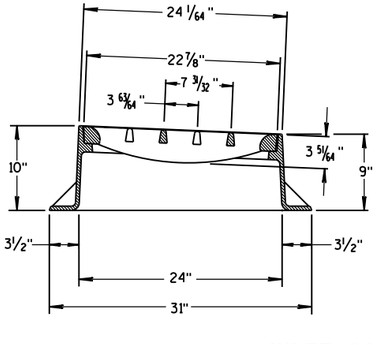
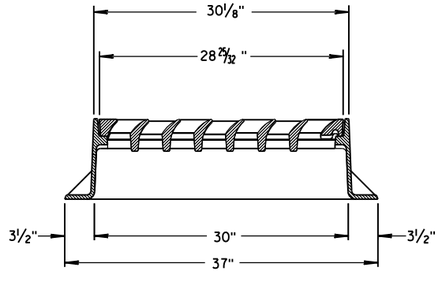


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

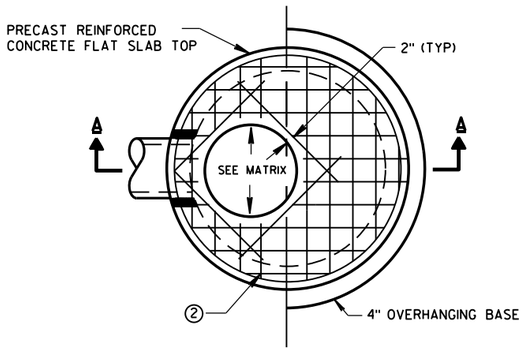
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

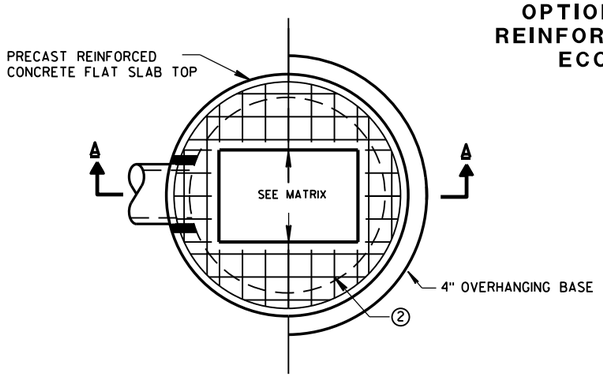
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

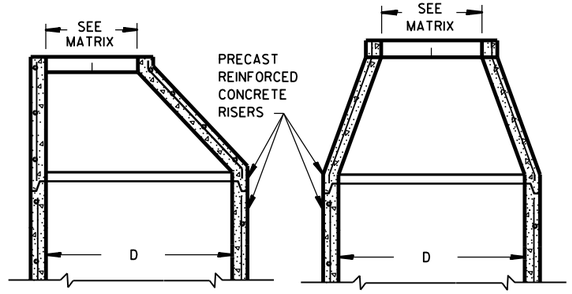
S.D.D. 8 A 5-19d



PLAN VIEW CIRCULAR OPENING

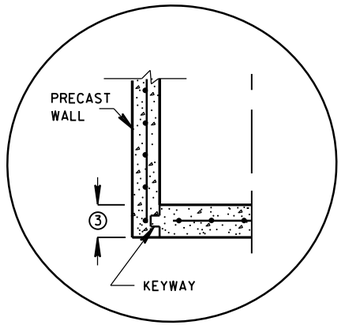


PLAN VIEW RECTANGULAR OPENING

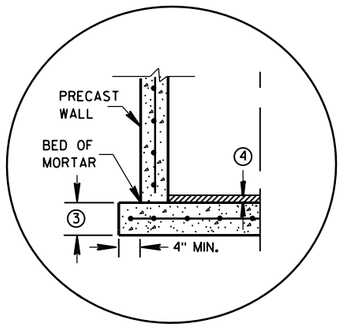


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

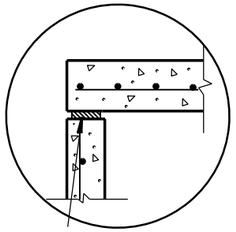


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



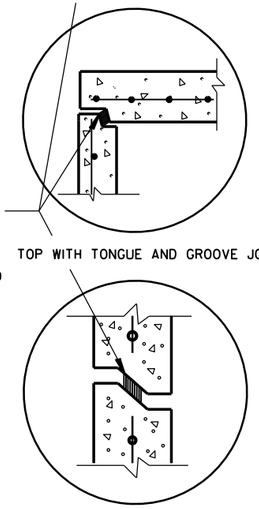
SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



TOP WITH PLAIN END JOINT

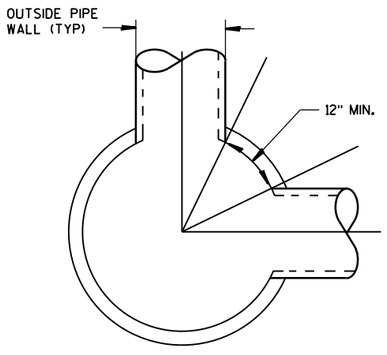
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



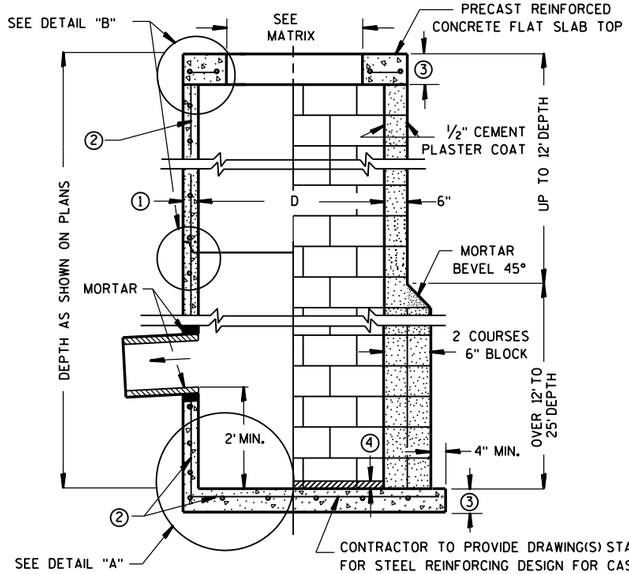
TOP WITH TONGUE AND GROOVE JOINT

RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



DETAIL "C"



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

SECTION A-A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

GENERAL NOTES

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

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

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

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

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

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2 INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

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

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

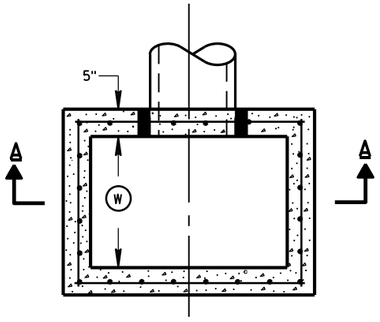
CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

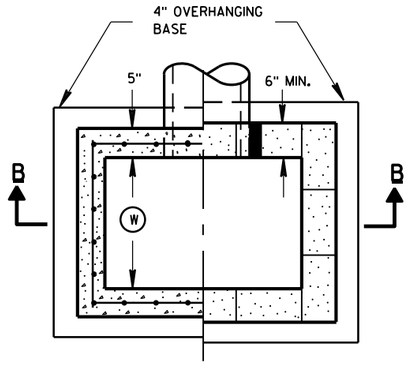
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

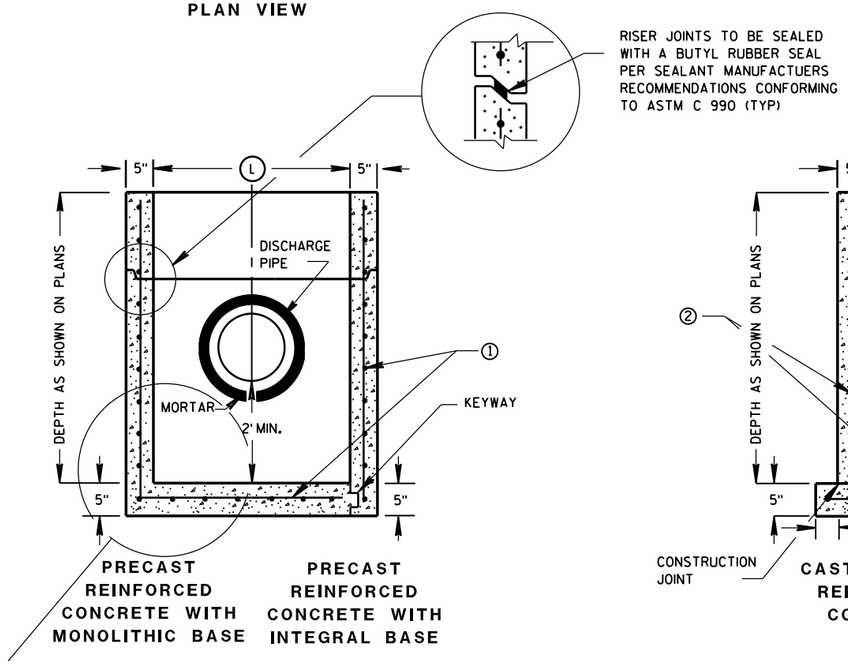
S.D.D. 8 A 8-1



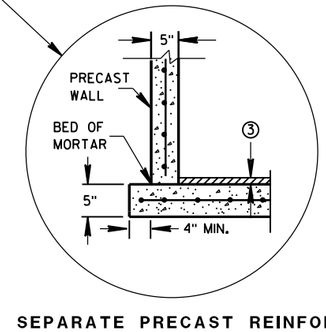
PLAN VIEW



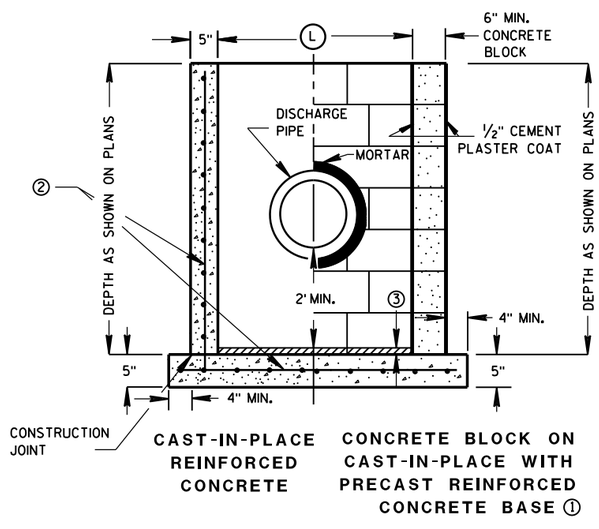
PLAN VIEW



SECTION A-A



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION



SECTION B-B

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

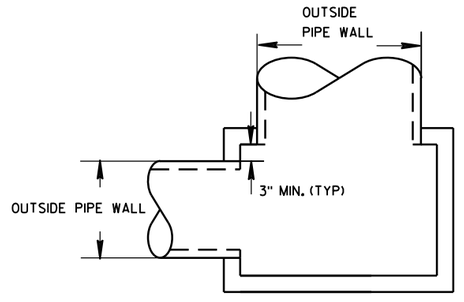
③ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER MATRIX

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

PIPE MATRIX

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



DETAIL "A"

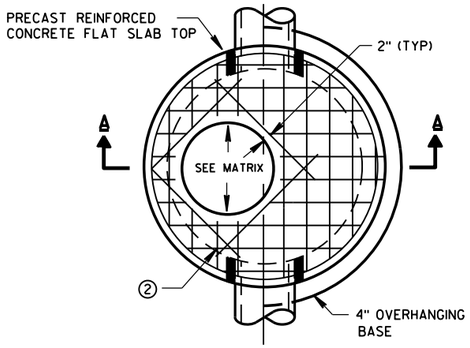
CATCH BASINS 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

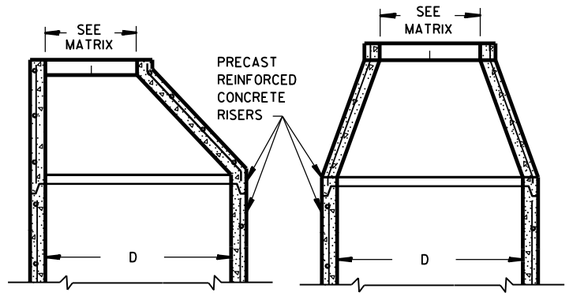
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 A 9-1

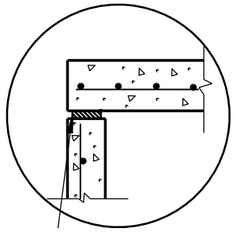


PLAN VIEW CIRCULAR OPENING

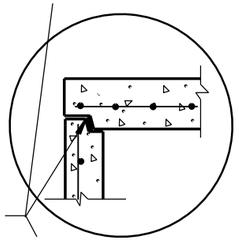


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

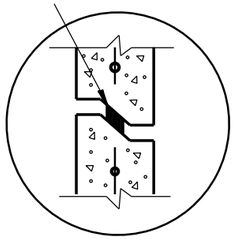


TOP WITH PLAIN END JOINT



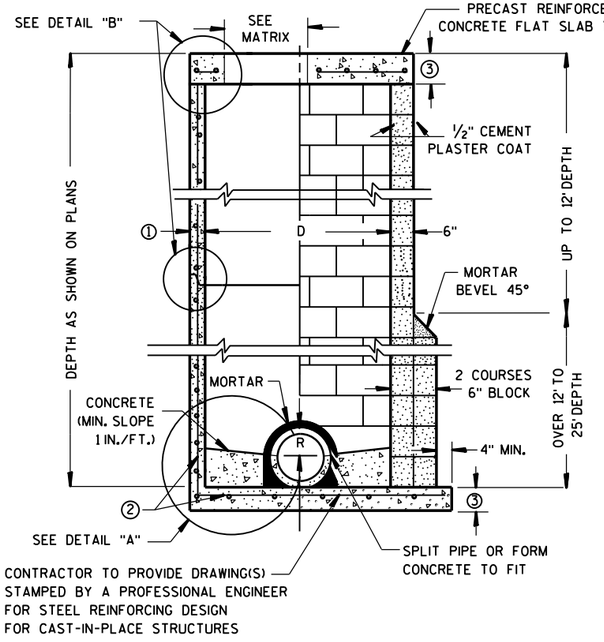
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



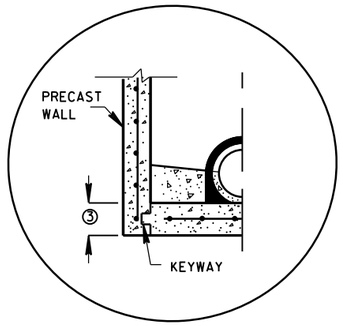
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

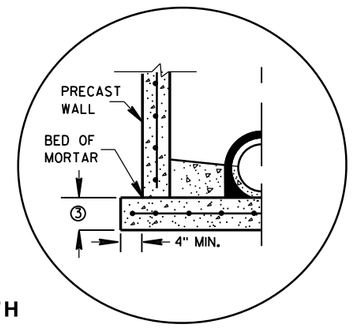


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

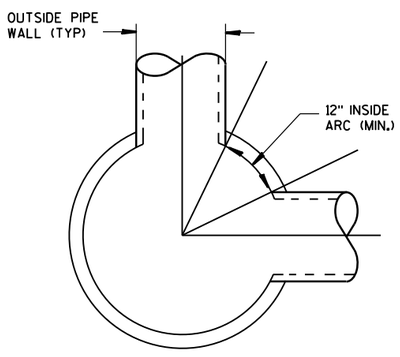


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

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

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

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

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

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

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

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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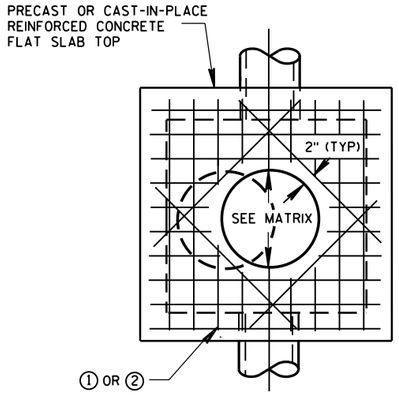
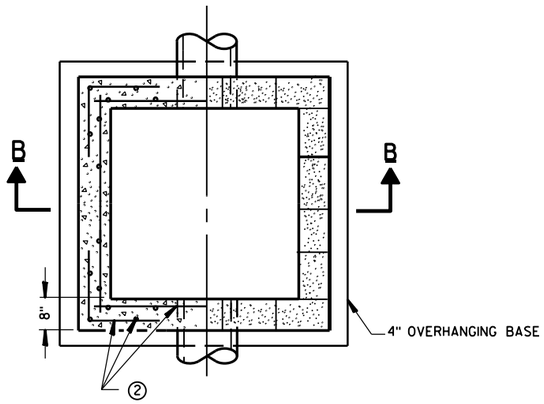
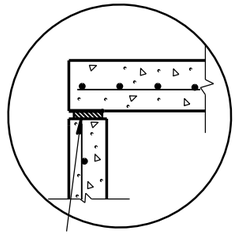
S.D.D. 8 B 9-1



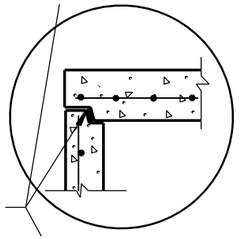
PLAN VIEW
CIRCULAR OPENING



SECTION A-A
PLAN VIEW

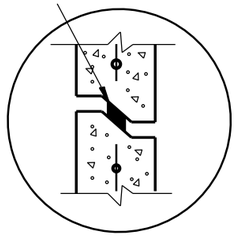


TOP WITH PLAIN END JOINT



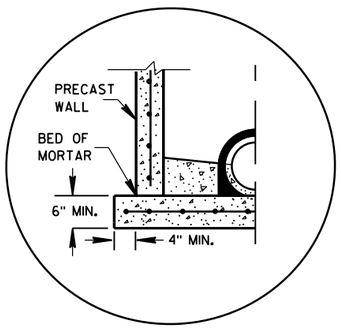
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



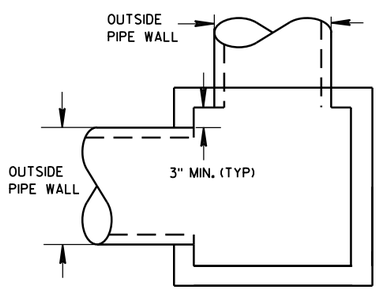
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



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.

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

PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

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.

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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 WIDTH.

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 ASTM C 913.

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.

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

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

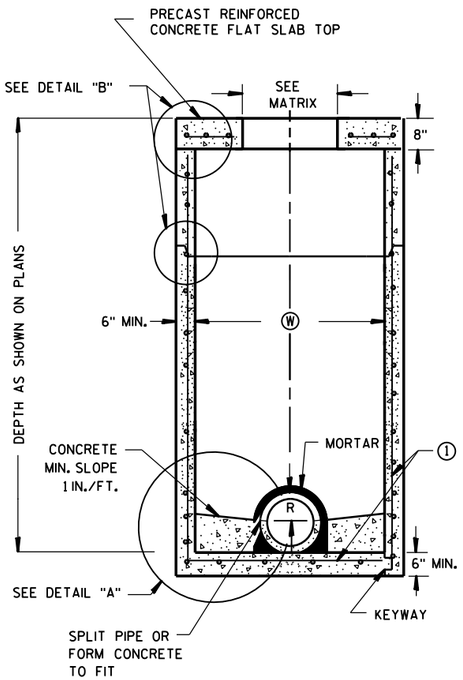
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

MANHOLE COVER OPENING MATRIX

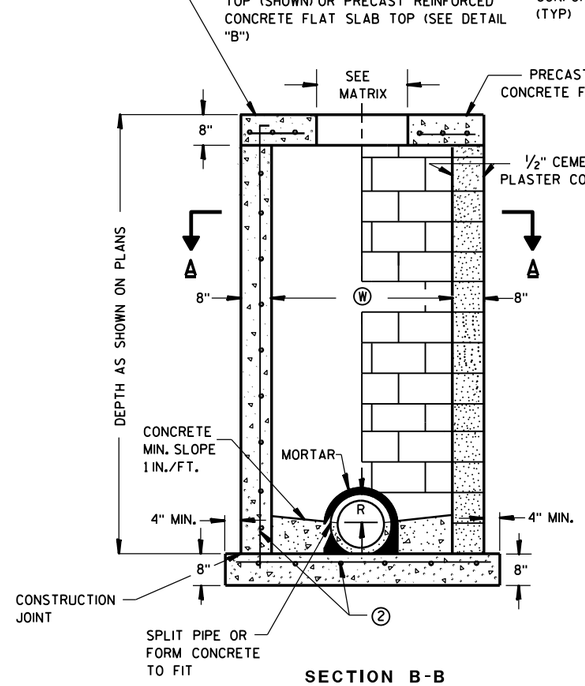
MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (W) (IN)	LENGTH (L) (IN)
3X3-FT	24	24
4X4-FT	30	30
5X5-FT	42	42
6X6-FT	54	54



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE



PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

CAST-IN-PLACE REINFORCED CONCRETE

SECTION B-B

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE

SQUARE MANHOLES W/ FLAT TOP

MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT

MANHOLES 3X3-FT, 4X4-FT 5X5-FT AND 6X6-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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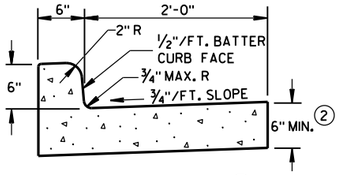
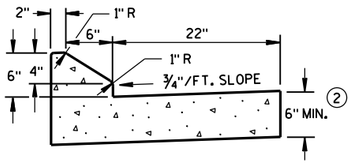
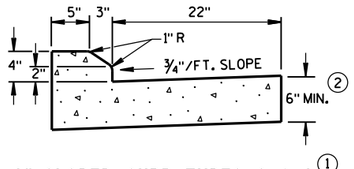


TYPES A & D ①

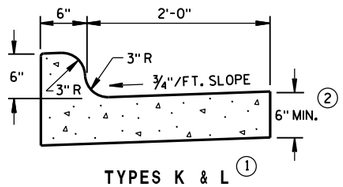


6" SLOPED CURB TYPES G & J ①

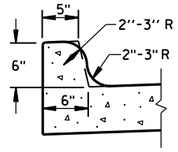


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

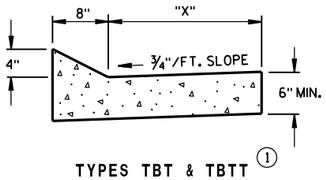


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

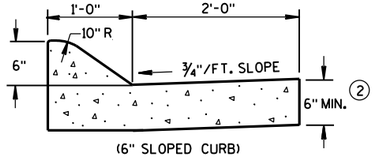
CONCRETE CURB & GUTTER 30"



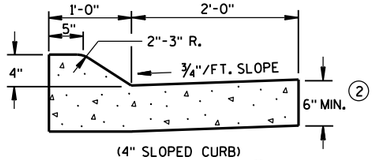
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

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

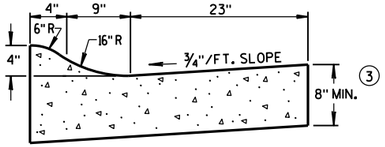


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ① ④

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

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

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

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

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

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

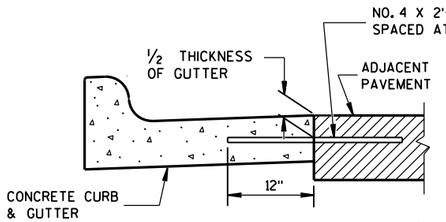
① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

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

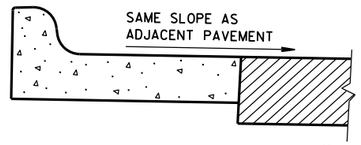
③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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

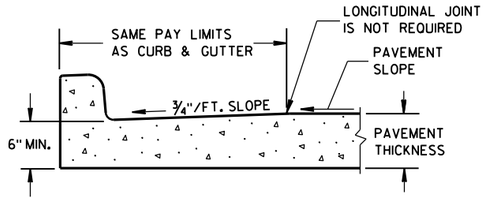
⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



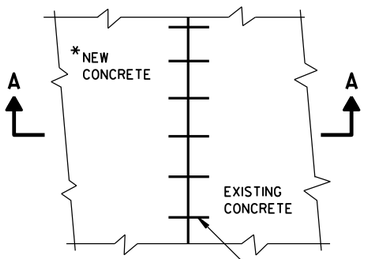
TYPICAL TIE BAR LOCATION ①



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

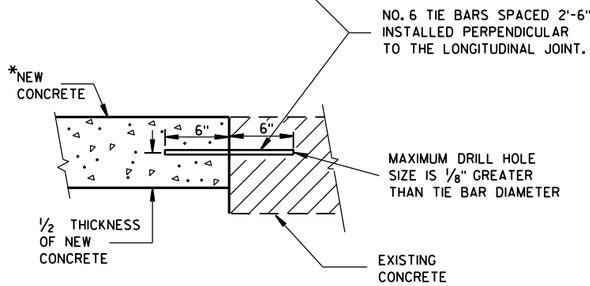


PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



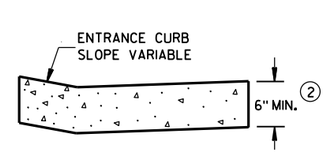
PLAN VIEW

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

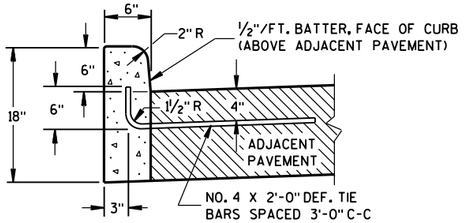


SECTION A-A

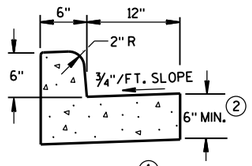
TIE BARS DRILLED
INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

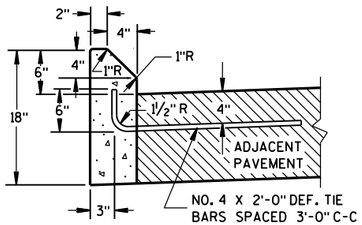


① TYPES A & D

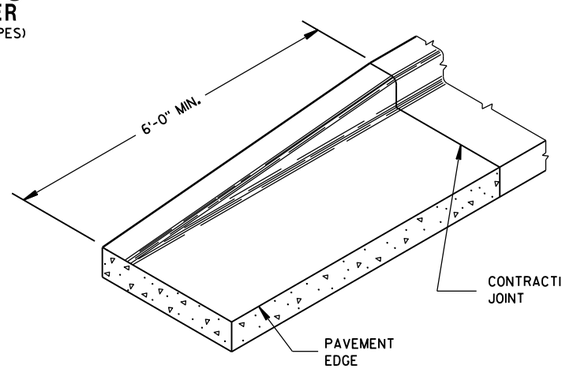


① TYPES A & D

CONCRETE CURB & GUTTER 18"



① TYPES G & J



END SECTION CURB & GUTTER

CONCRETE CURB

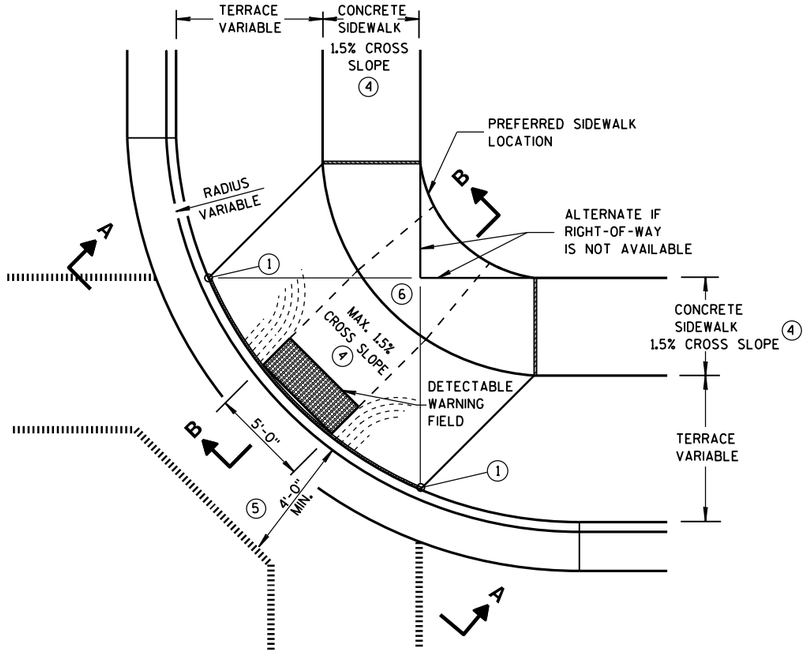
CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

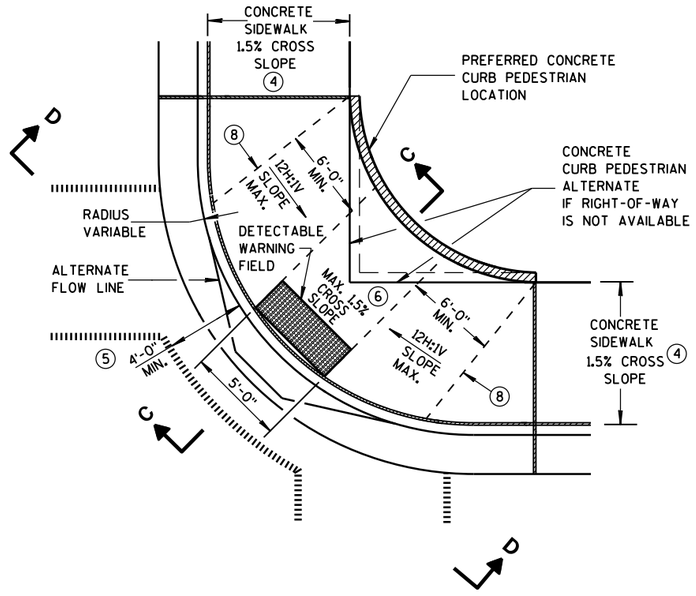
S.D.D. 8 D 1-18



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

GENERAL NOTES

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

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

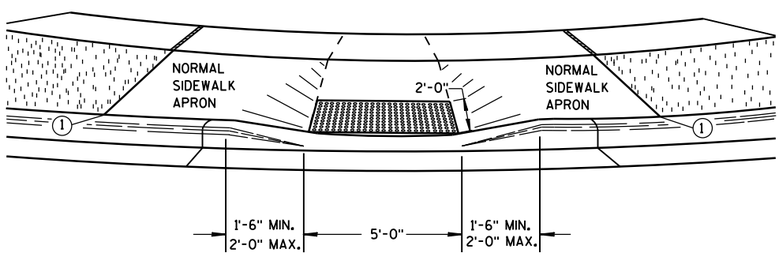
(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

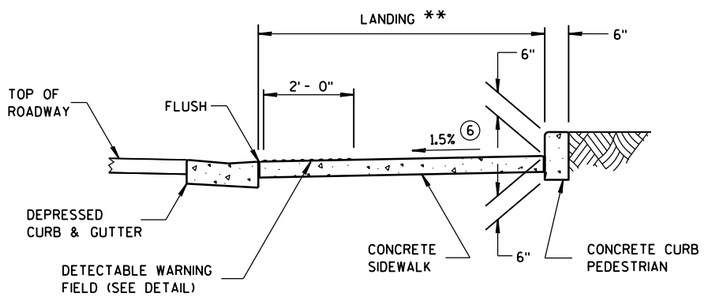
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.



VIEW A-A

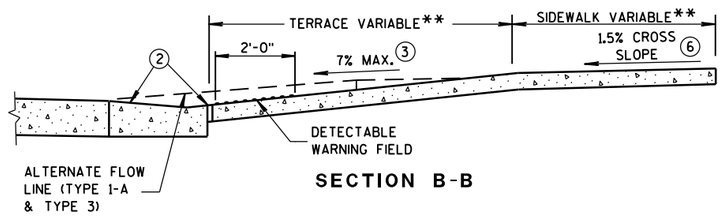
** WIDTH SHOWN ELSEWHERE IN THE PLANS



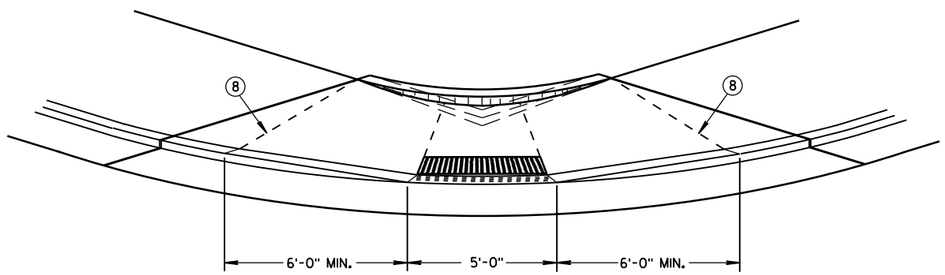
SECTION C-C

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



SECTION B-B



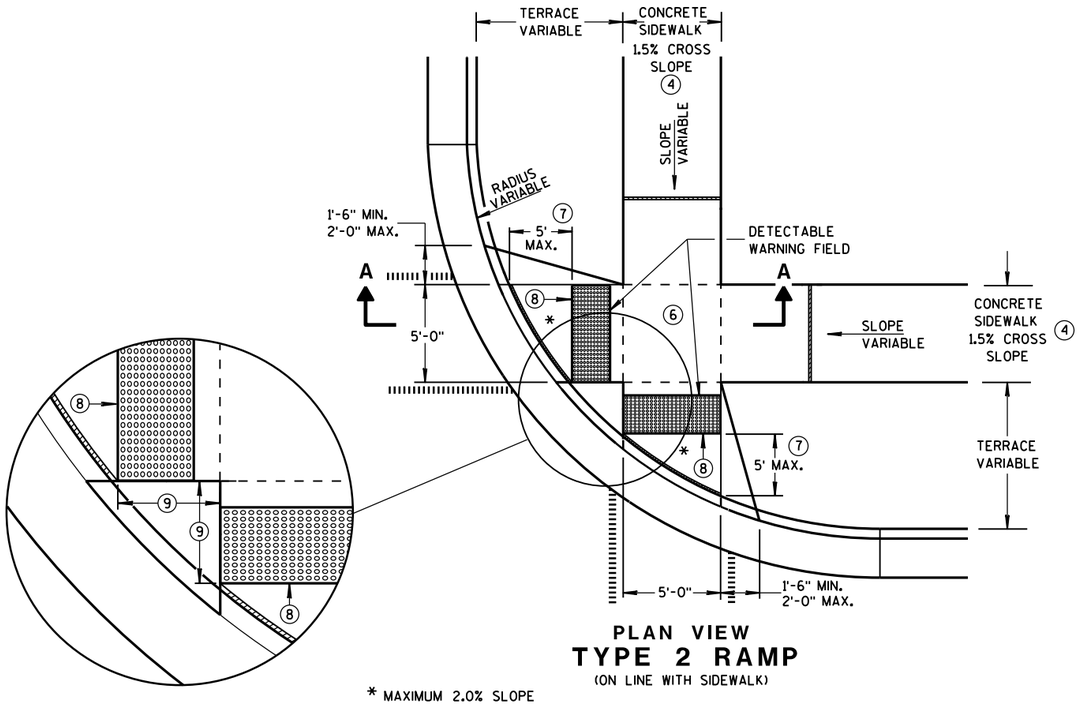
VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 8 D 5-16a

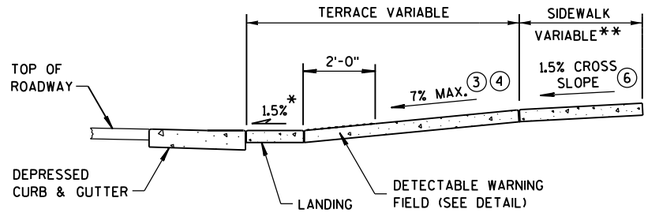


PLAN VIEW

TYPE 2 RAMP

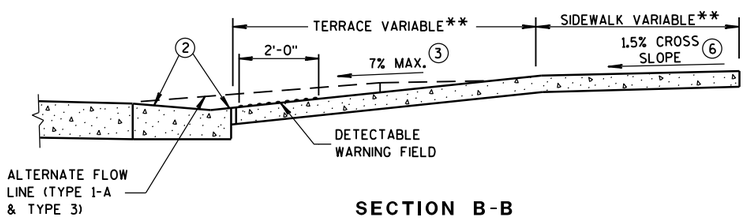
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

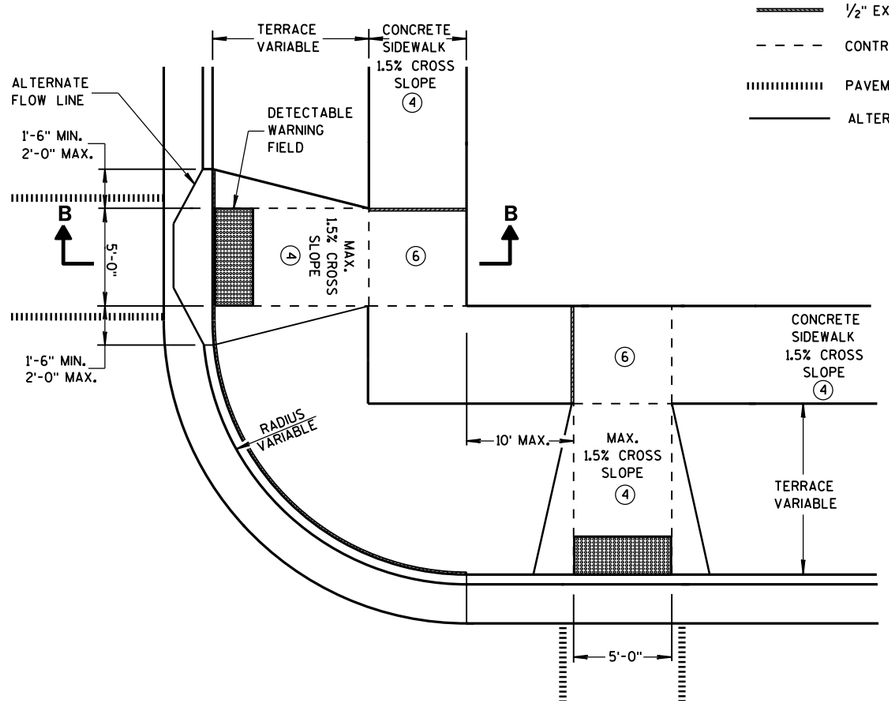
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. 2" MINIMUM CURB HEIGHT.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



PLAN VIEW

TYPE 3 RAMP

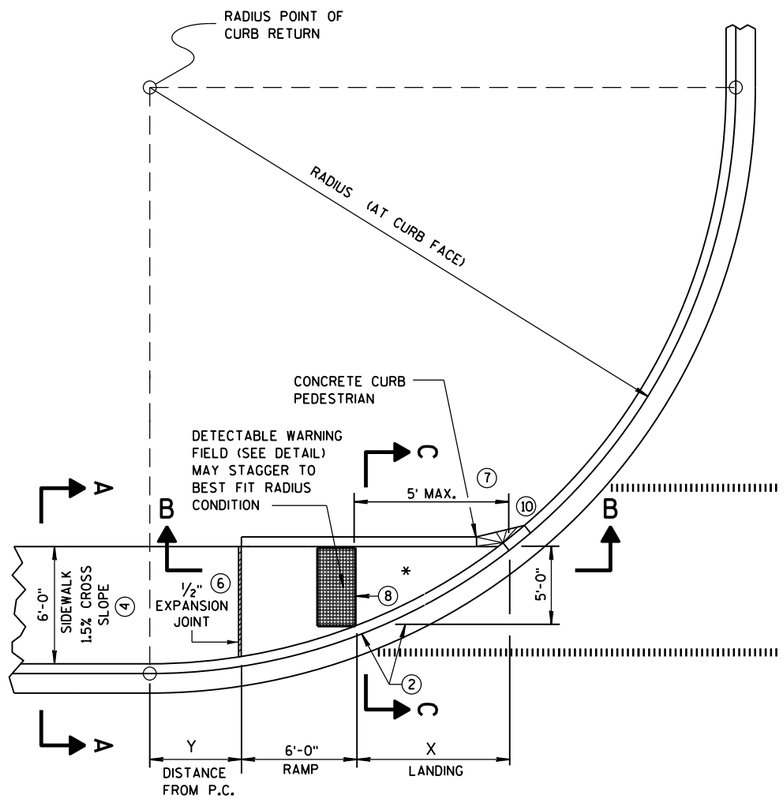
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-16b

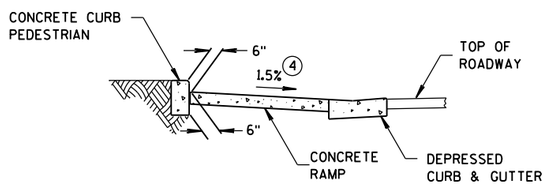


CURB RAMP TYPE 4A
PLAN VIEW

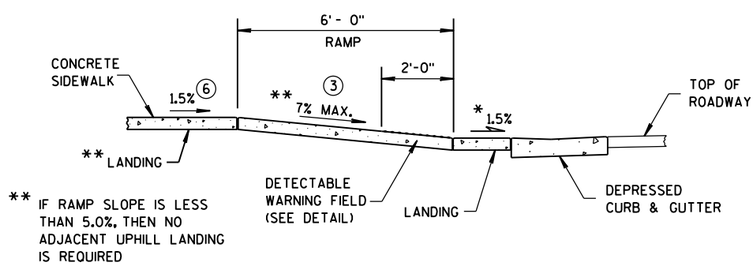
RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

INTERMEDIATE RADII CAN BE INTERPOLATED

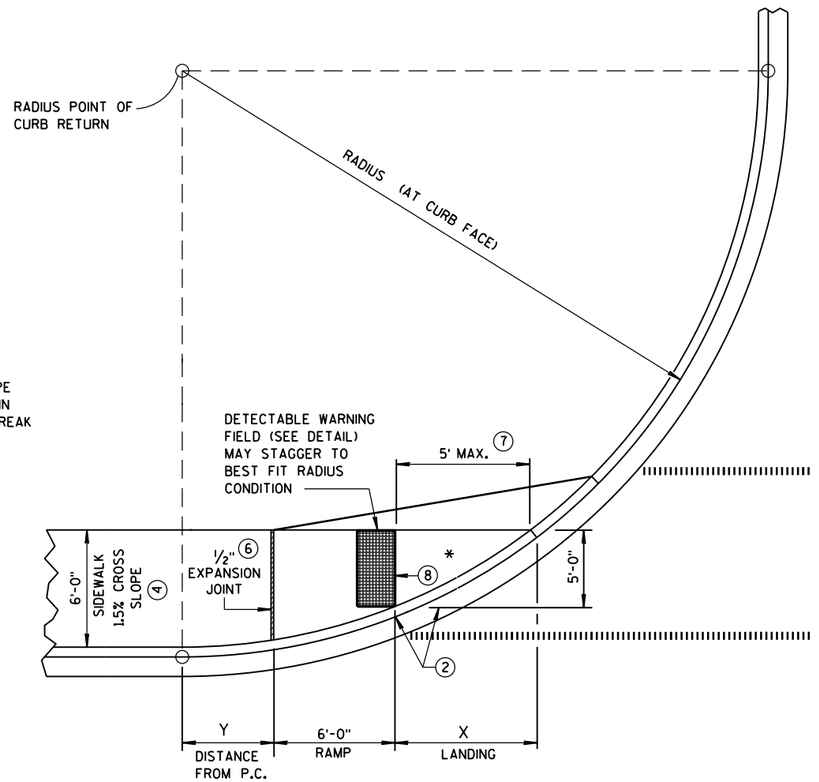
SECTION A-A FOR TYPE 4A



SECTION C-C FOR TYPE 4A



SECTION B-B FOR TYPE 4A



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

CURB RAMP TYPE 4A1
PLAN VIEW

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

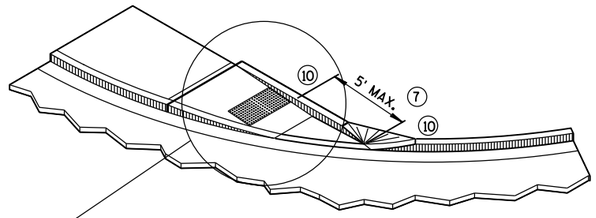
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

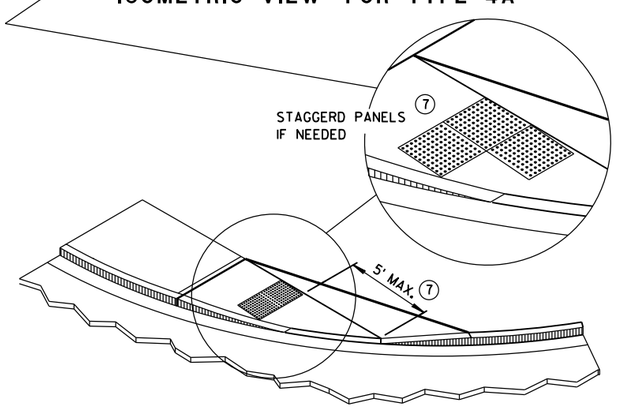
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

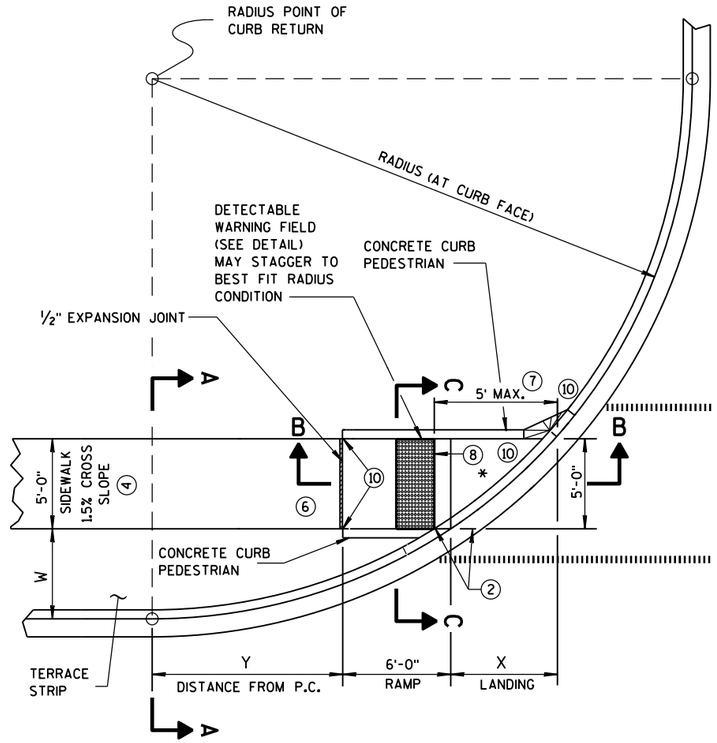
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

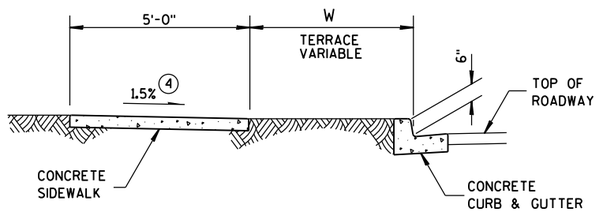
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

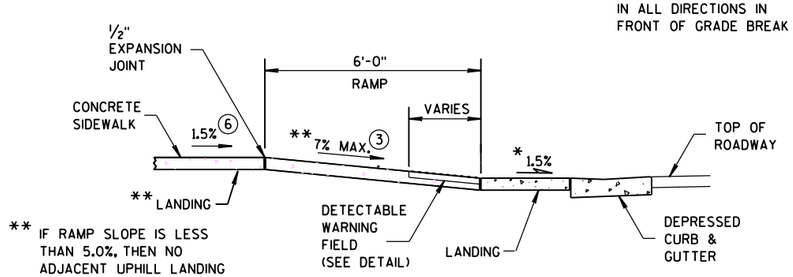
S.D.D. 8 D 5-16c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



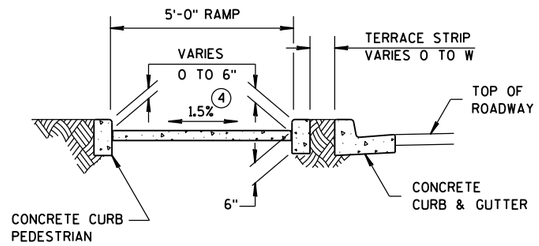
SECTION B-B FOR TYPE 4B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)



SECTION C-C FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-5½"	4'-6½"	4'-8½"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-3½"	3'-1½"	9'-2½"
30 FEET	7'-3¾"	7'-1"	6'-5½"	8'-11½"	5'-9¼"	10'-7"	5'-2½"	12'-0"	4'-8¾"	13'-3¼"
40 FEET	8'-9½"	9'-2½"	7'-10"	11'-5¼"	7'-1"	13'-4½"	6'-5¾"	15'-¾"	5'-11½"	16'-7¼"
50 FEET	10'-¾"	11'-¾"	9'-¼"	13'-7¼"	8'-2½"	15'-9½"	7'-6½"	17'-9"	6'-11¾"	19'-6¼"
60 FEET	11'-2½"	12'-8¾"	10'-¾"	15'-6½"	9'-2¼"	17'-11¾"	8'-5¾"	20'-1¾"	7'-10½"	22'-1½"

INTERMEDIATE RADII CAN BE INTERPOLATED

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

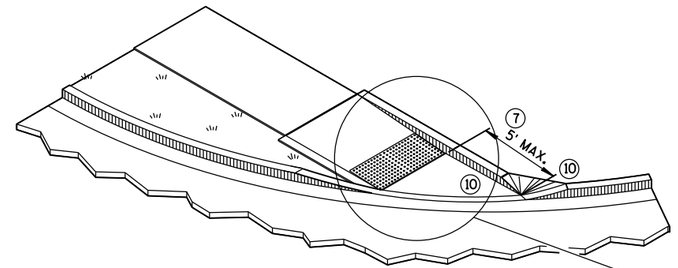
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

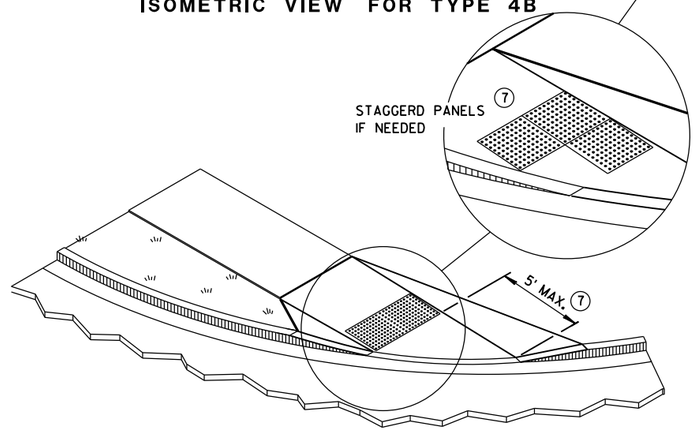
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

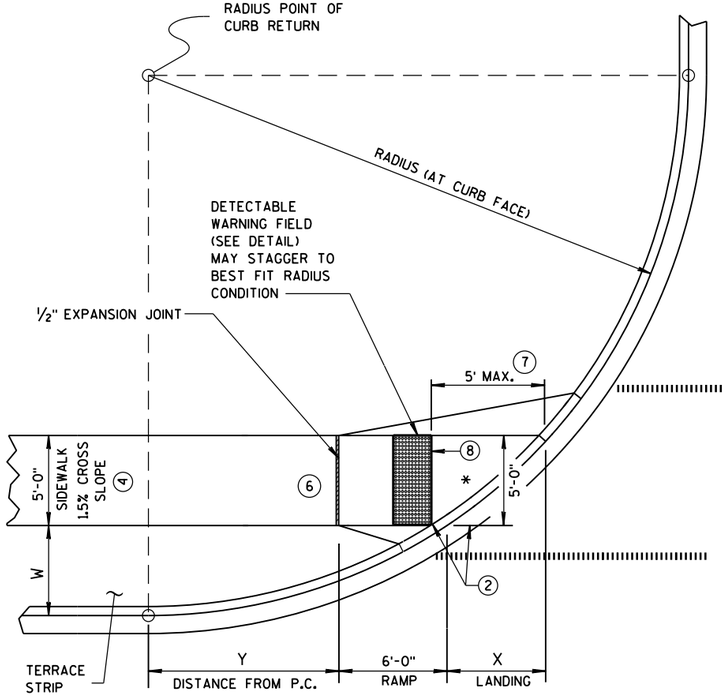
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1



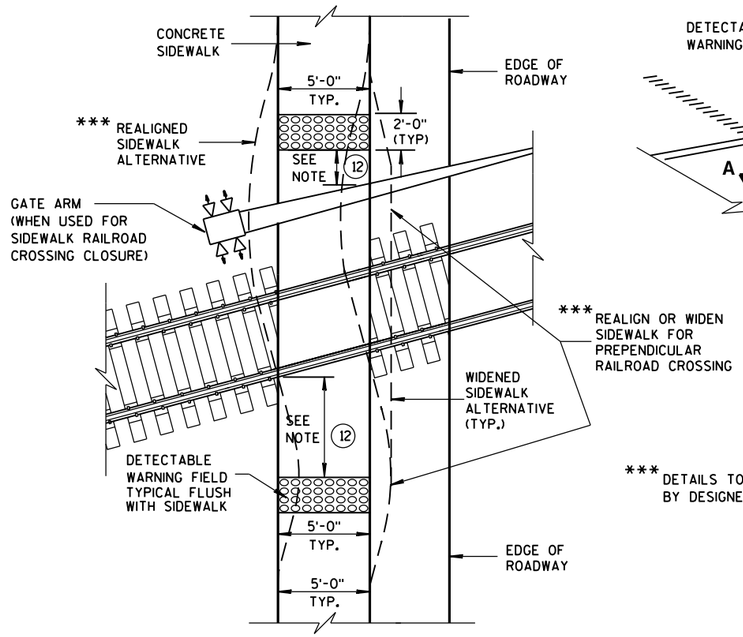
CURB RAMP TYPE 4B1
PLAN VIEW

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

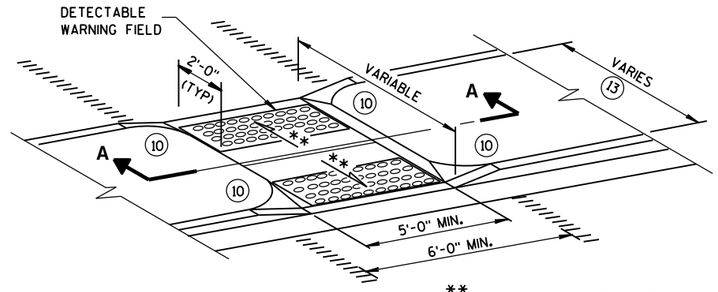
6

S.D.D. 8 D 5-16d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING

*** DETAILS TO BE DETERMINED BY DESIGNER



MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

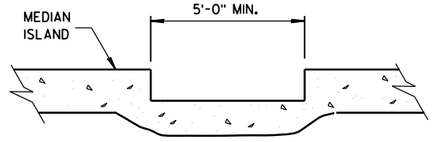
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

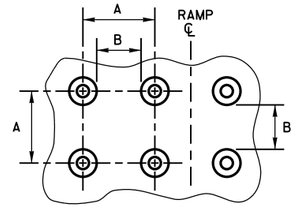
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS IF MEDIAN WIDTH BETWEEN BACK OF CURBS IS LESS THAN 6 FEET.



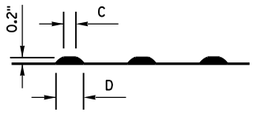
SECTION A-A

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

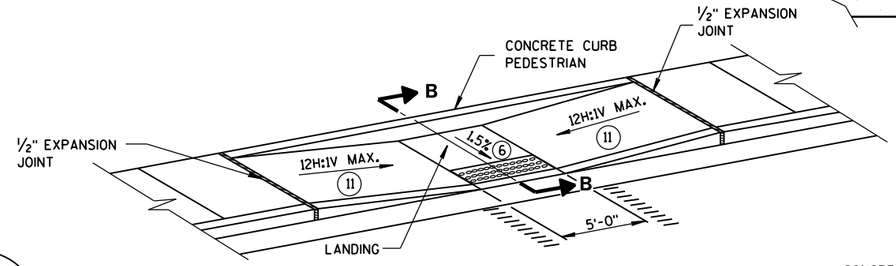


PLAN VIEW

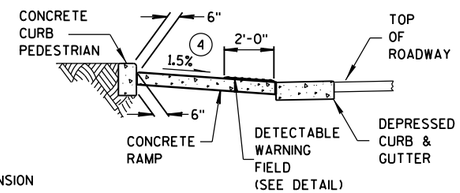


ELEVATION VIEW

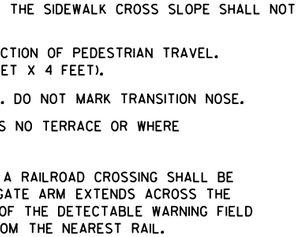
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



MID-BLOCK CROSSING
TYPE 7A



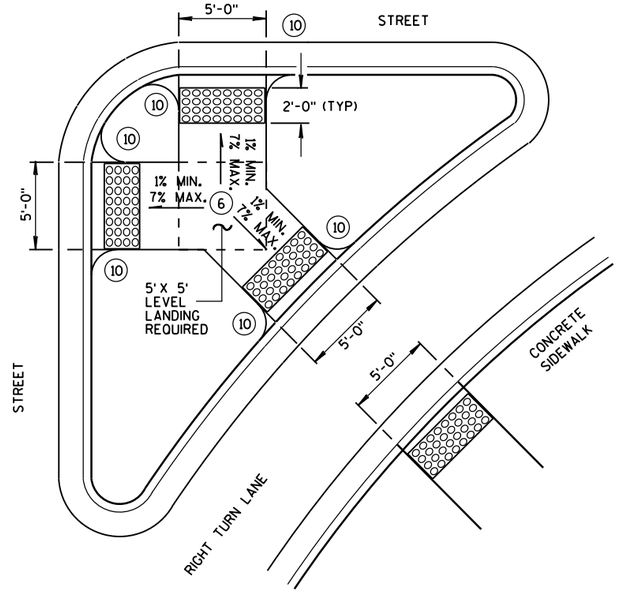
SECTION B-B



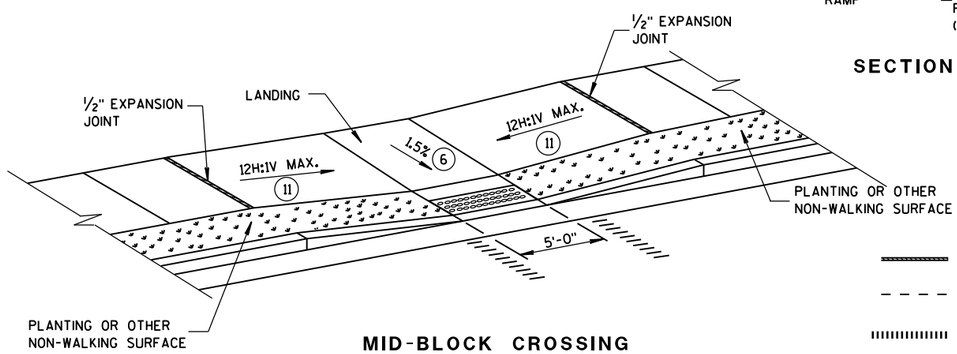
PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

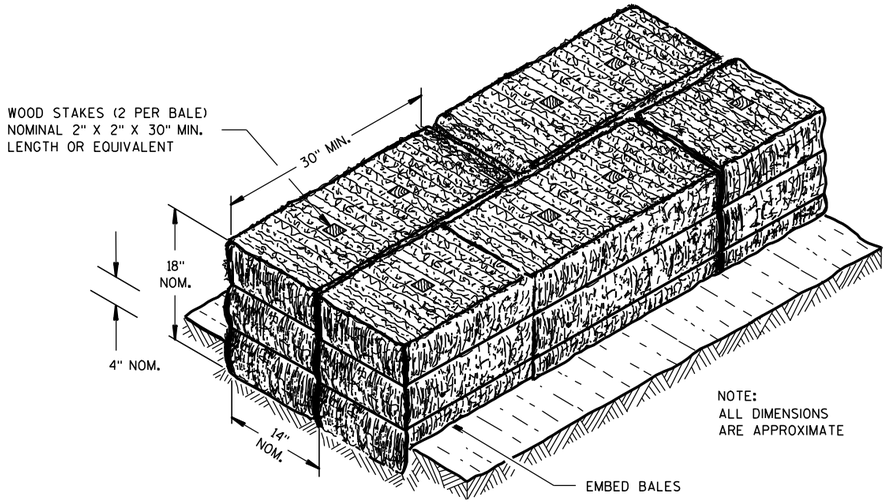
CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

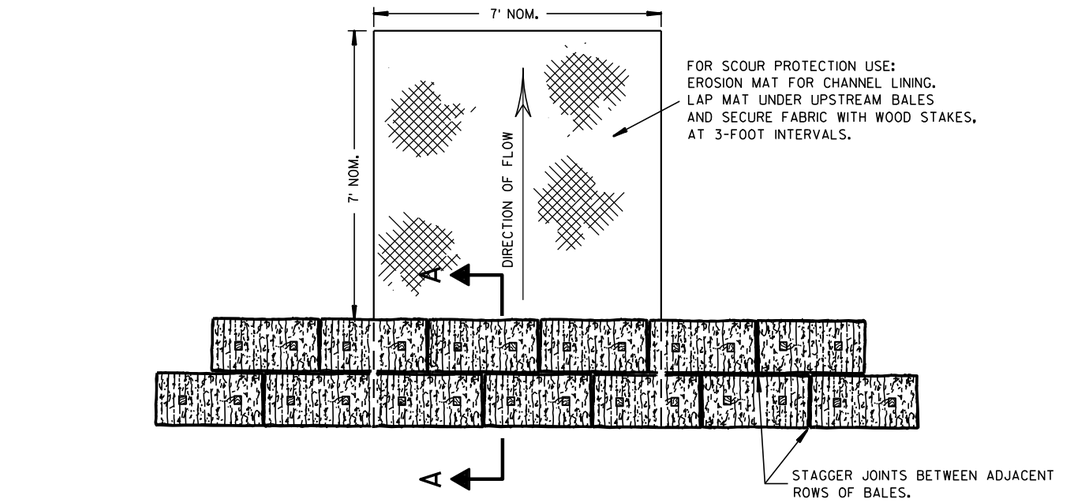
APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

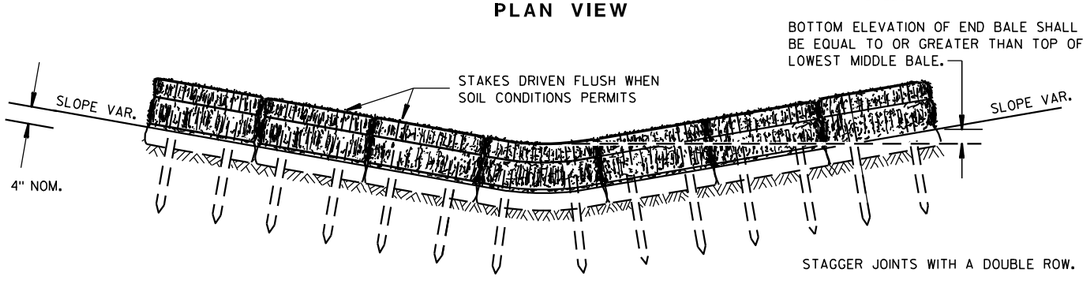
S.D.D. 8 D 5-16e



SECTION A-A



PLAN VIEW



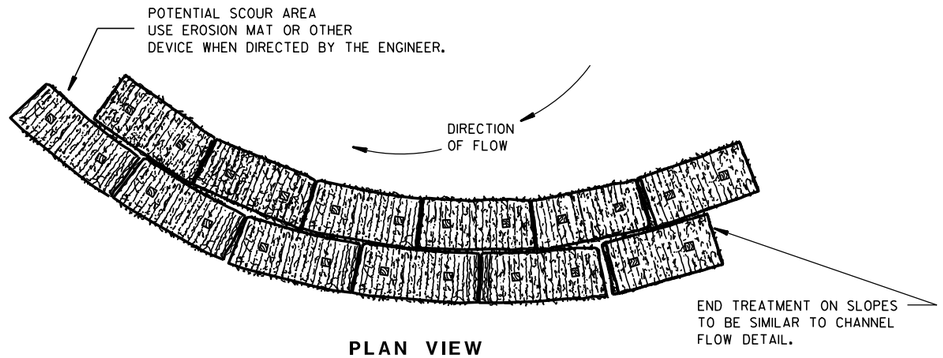
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

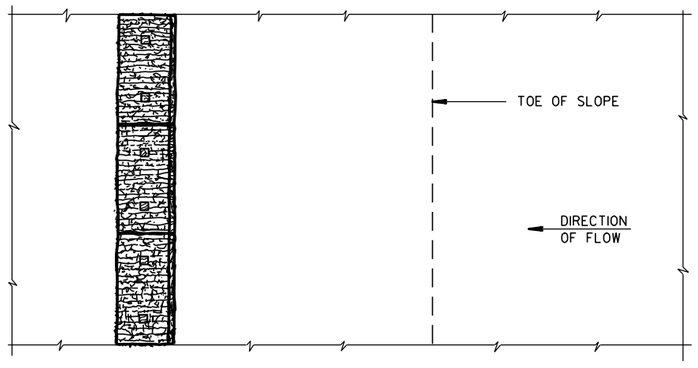
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

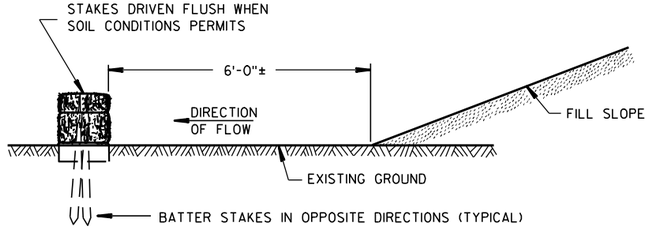


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

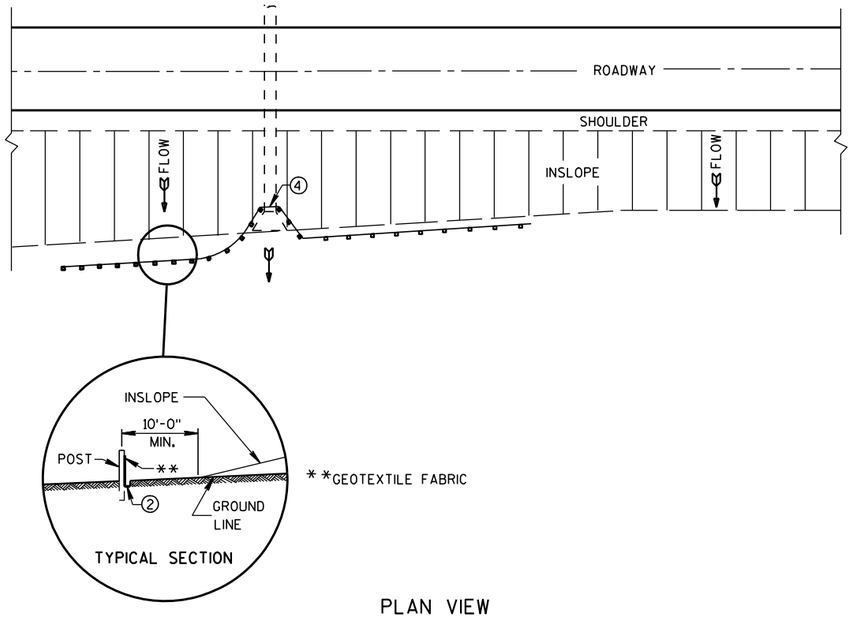
APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

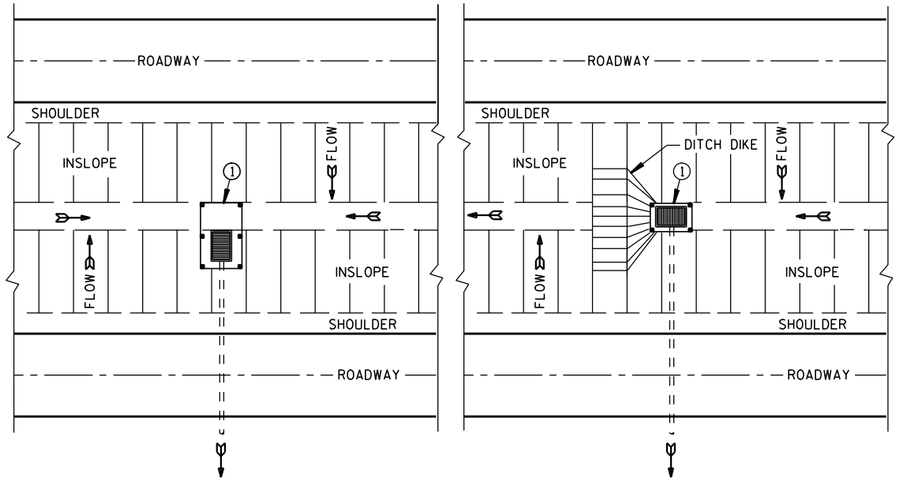
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



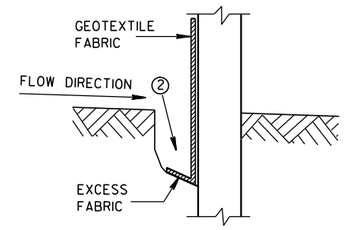
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

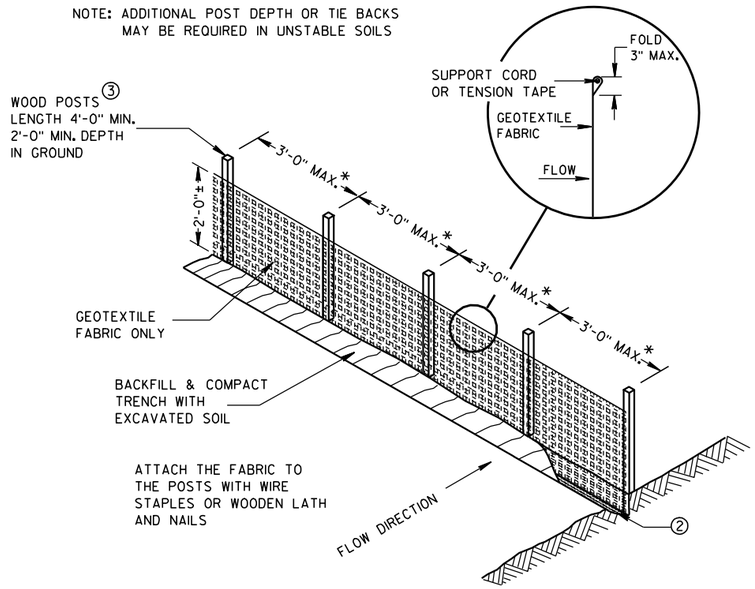
GENERAL NOTES

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

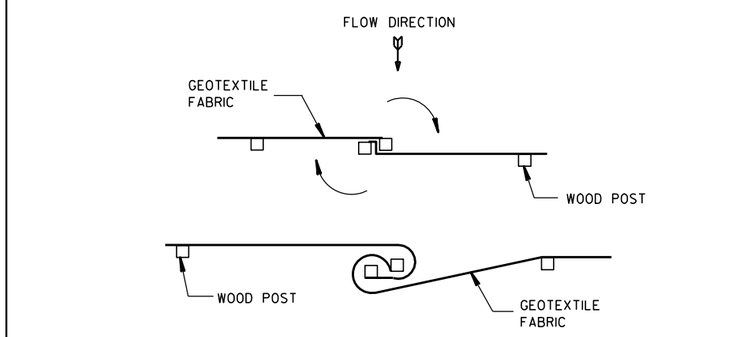
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



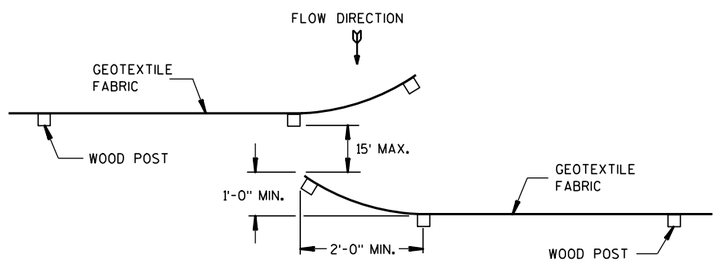
TRENCH DETAIL



SILT FENCE

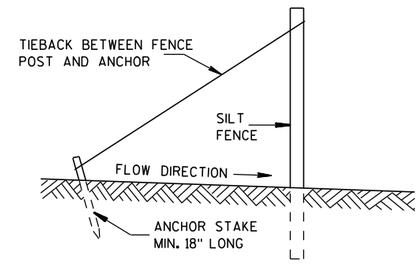


TWIST METHOD



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

6

S.D.D. 8 E 9-6

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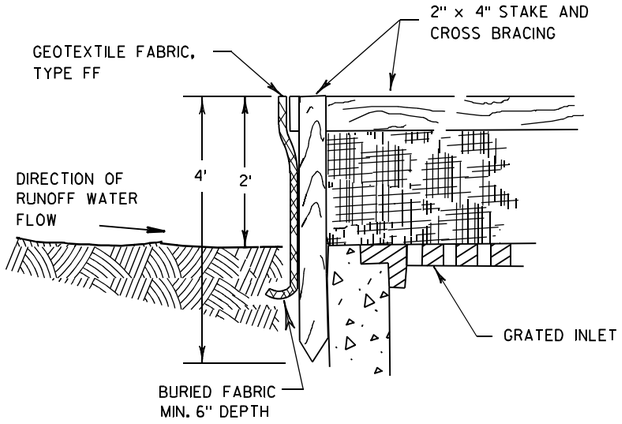
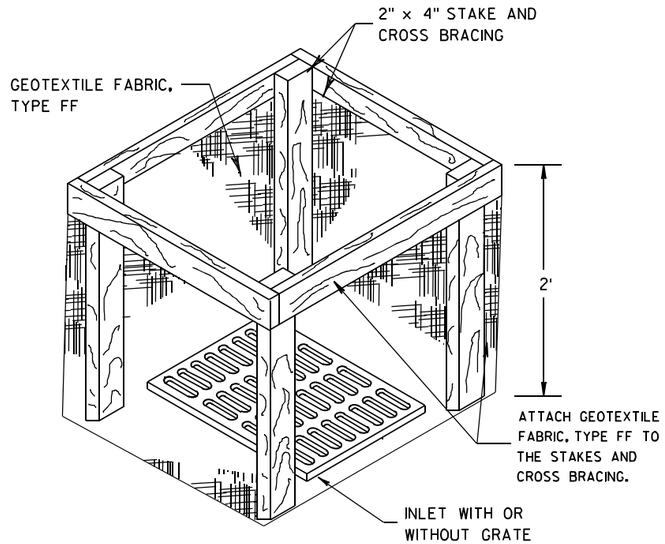
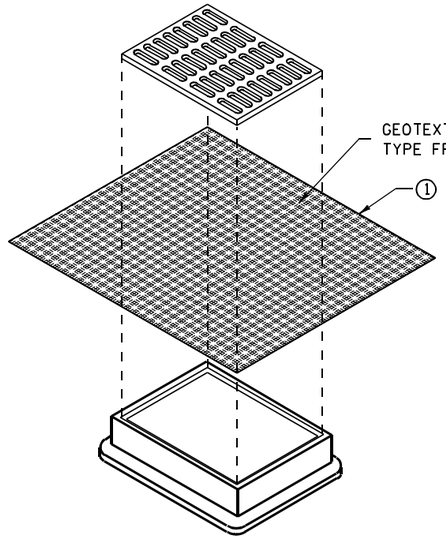
S.D.D. 8 E 9-6



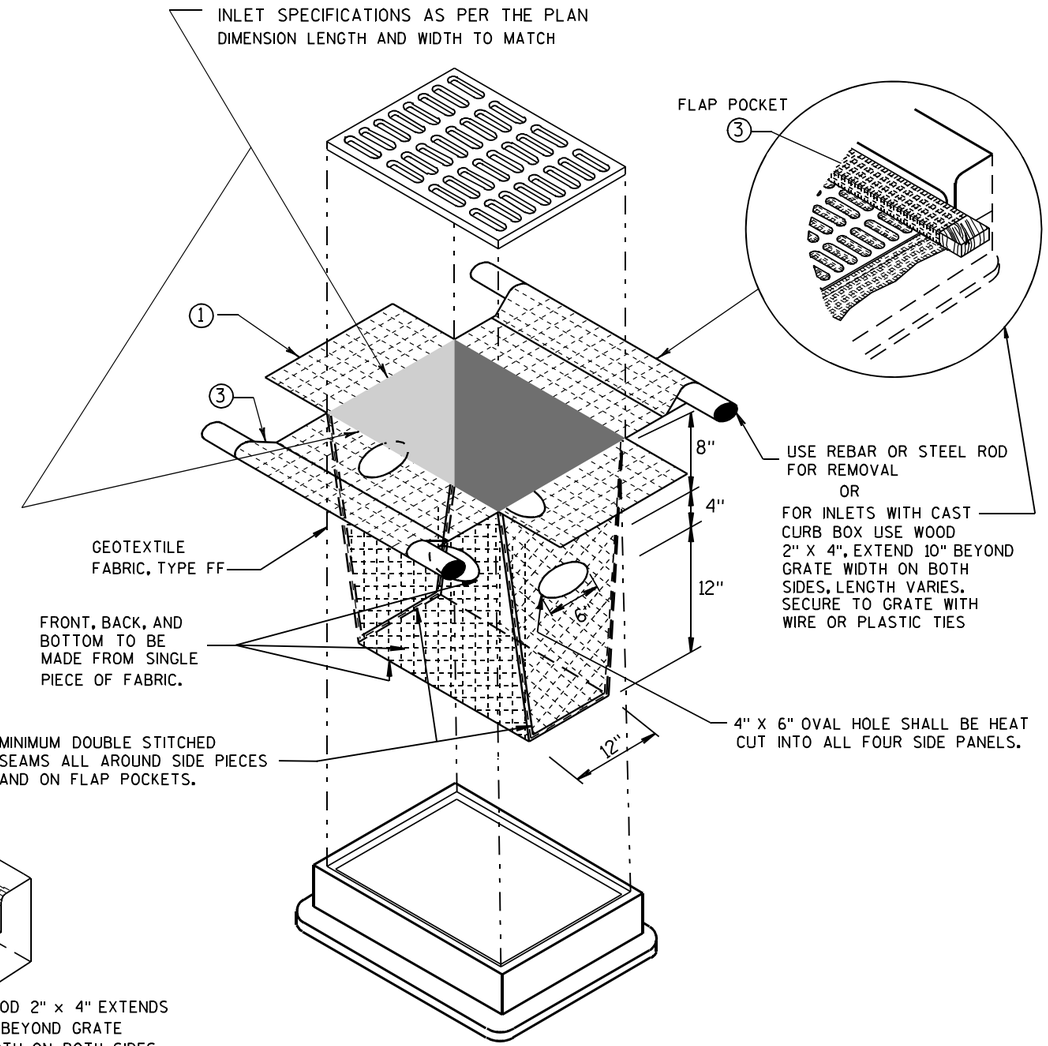


INLET PROTECTION, TYPE A



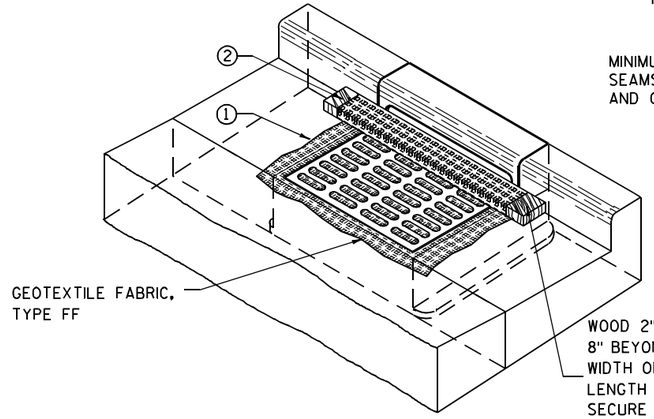
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

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



INLET PROTECTION, TYPE D

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



INLET PROTECTION, TYPE C (WITH CURB BOX)

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

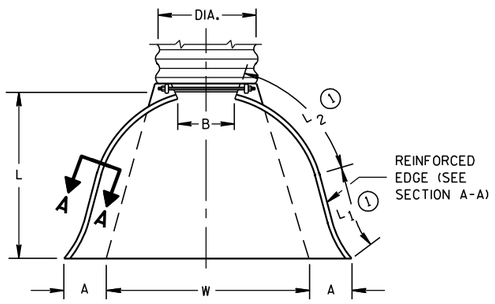
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to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

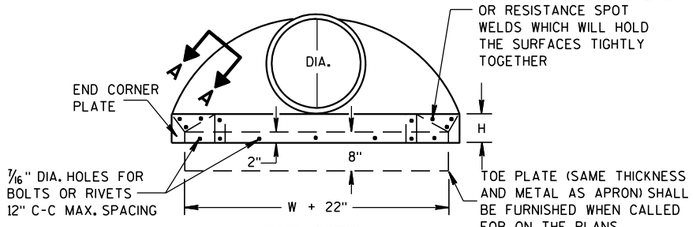
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
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

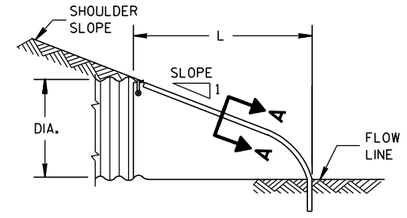
*MINIMUM
**MAXIMUM



PLAN VIEW

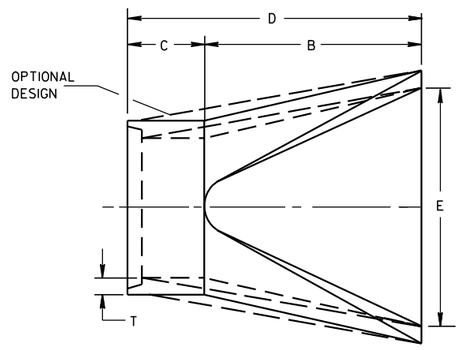


END VIEW

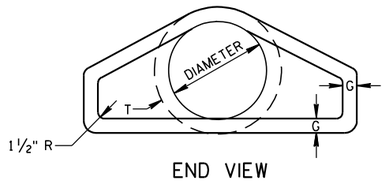


SIDE ELEVATION

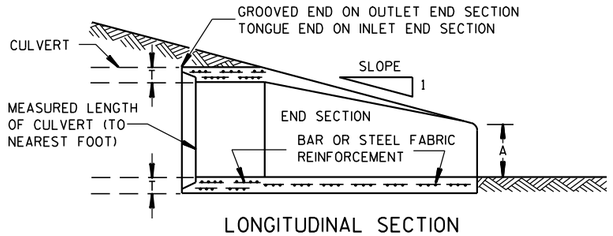
METAL ENDWALLS



PLAN

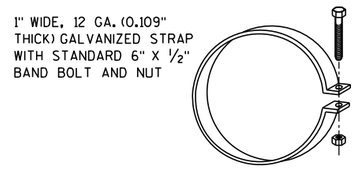


END VIEW



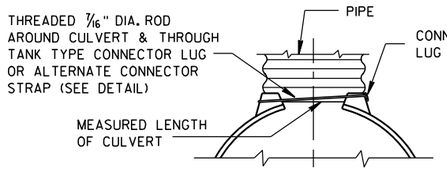
LONGITUDINAL SECTION

CONCRETE ENDWALLS

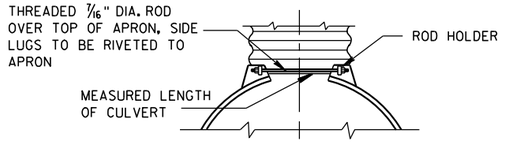


ALTERNATE FOR TYPE 1 CONNECTION

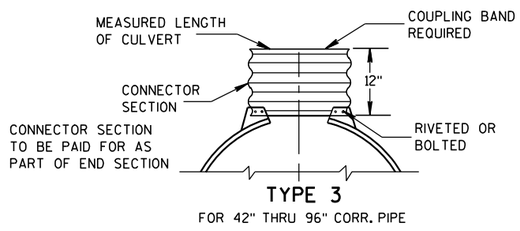
END SECTION CONNECTOR STRAP



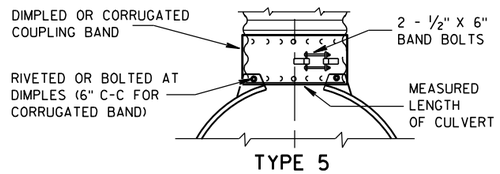
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

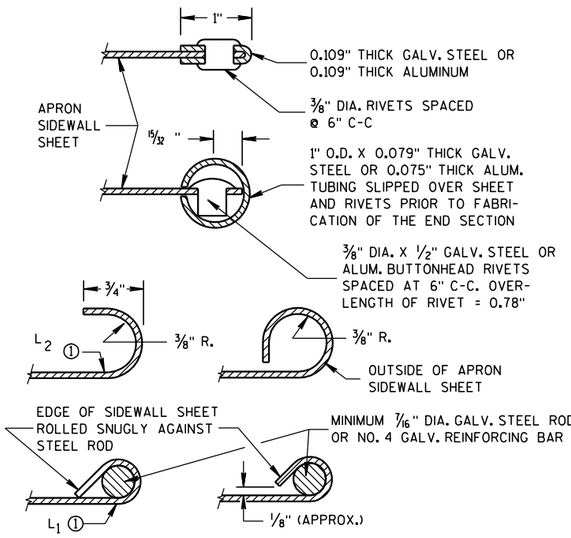
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

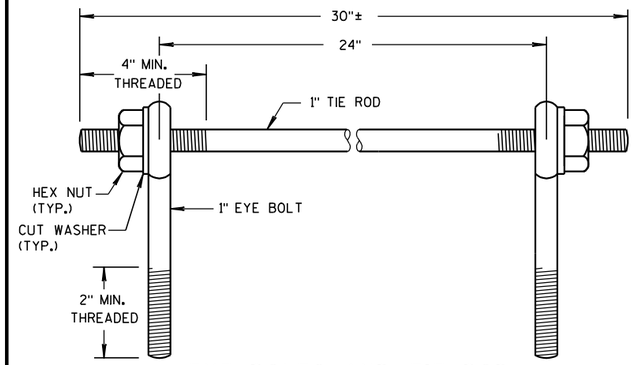
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

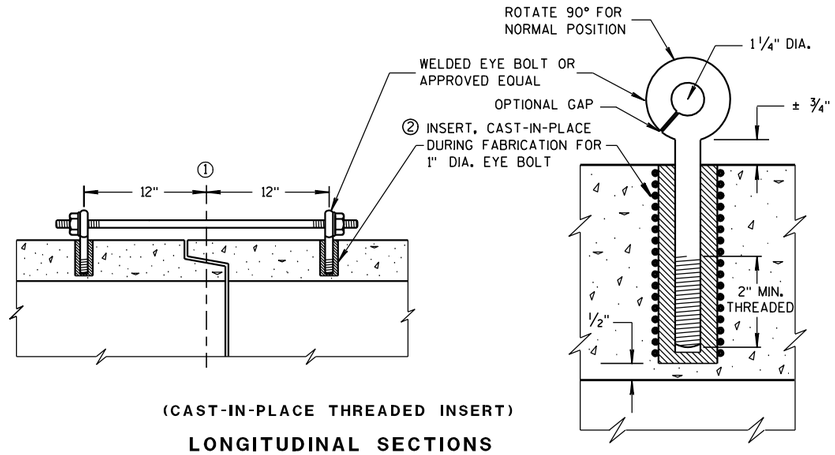
APPROVED
11/30/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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.

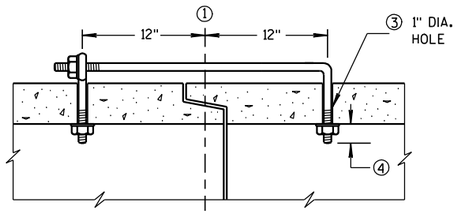
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

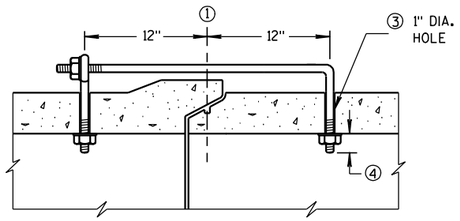
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

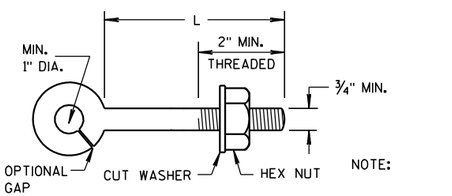


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

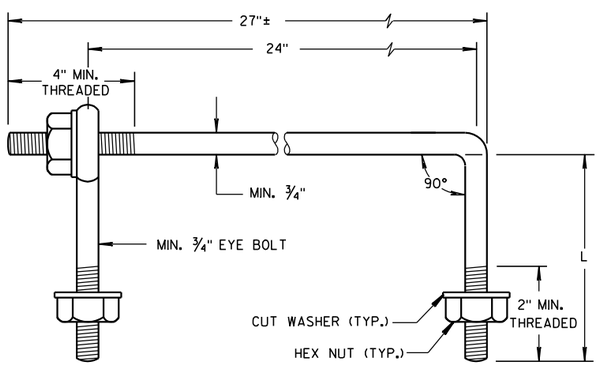
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

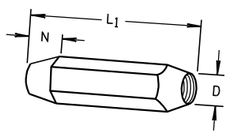
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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



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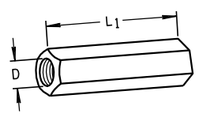
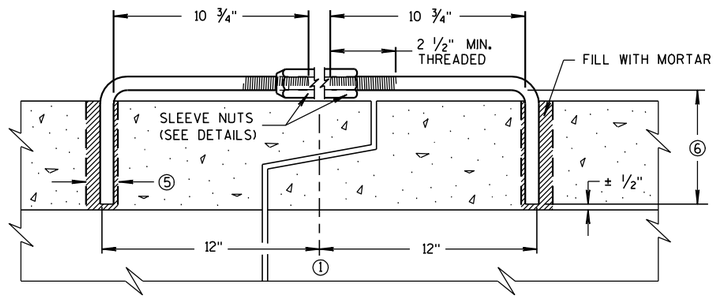


PLAIN

RIGHT AND LEFT THREADS

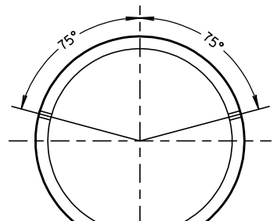
SLEEVE NUTS



LONGITUDINAL SECTION

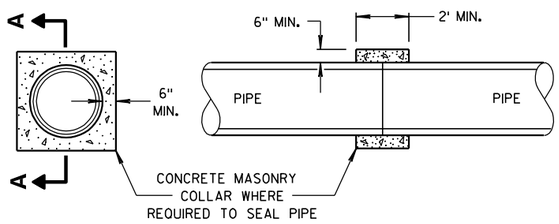
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

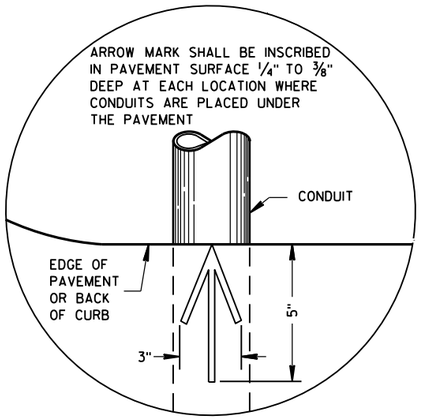
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 F 4-7

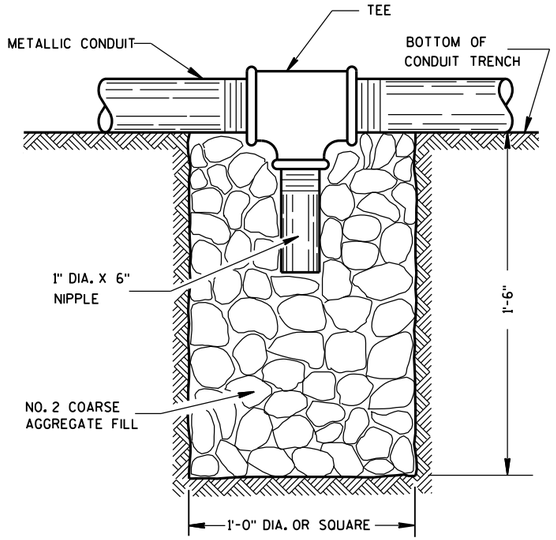
6

S.D.D. 8 F 4-7



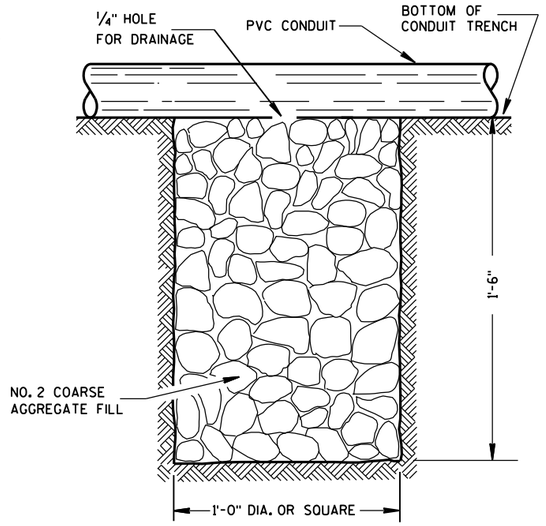
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

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

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

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

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

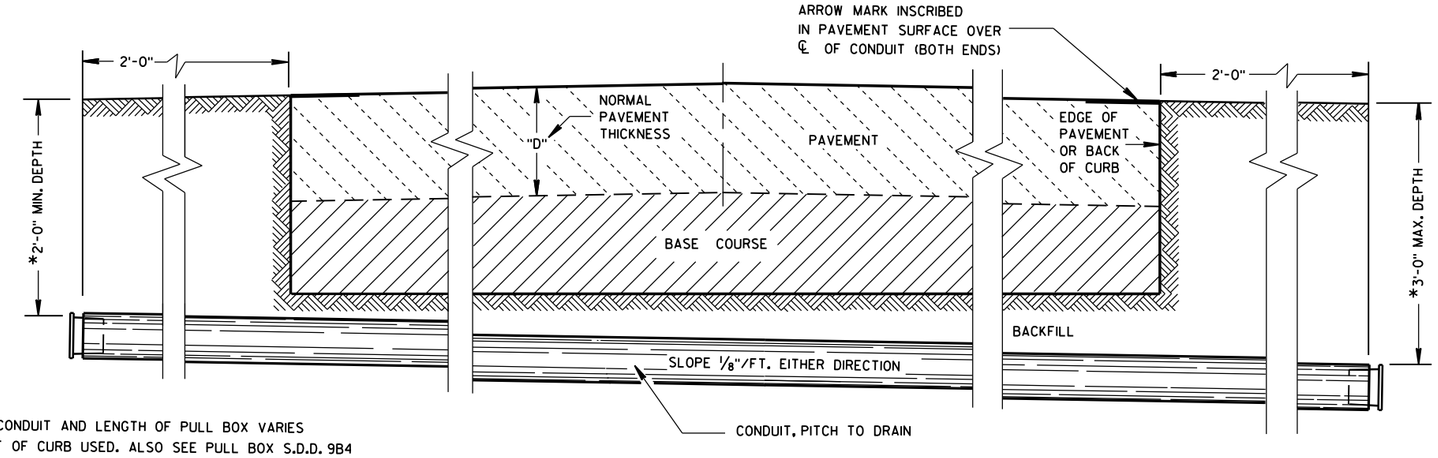
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

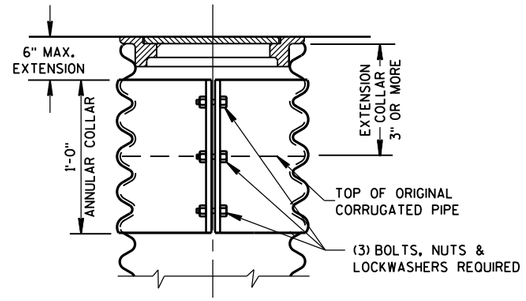
S.D.D. 9 B 2-9

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

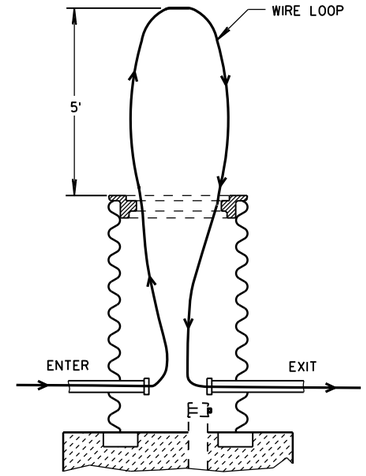
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

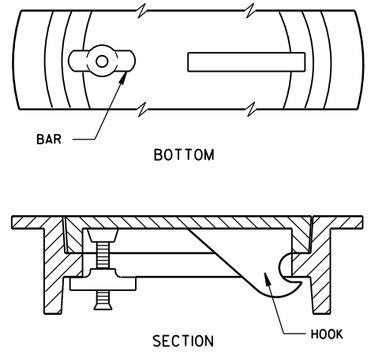
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

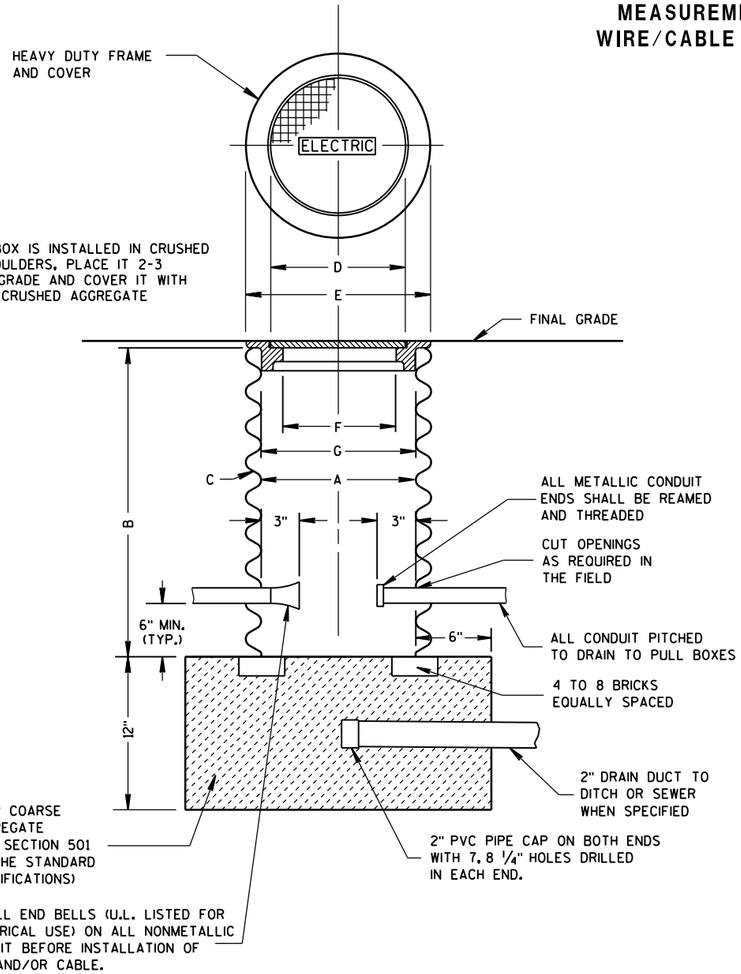


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



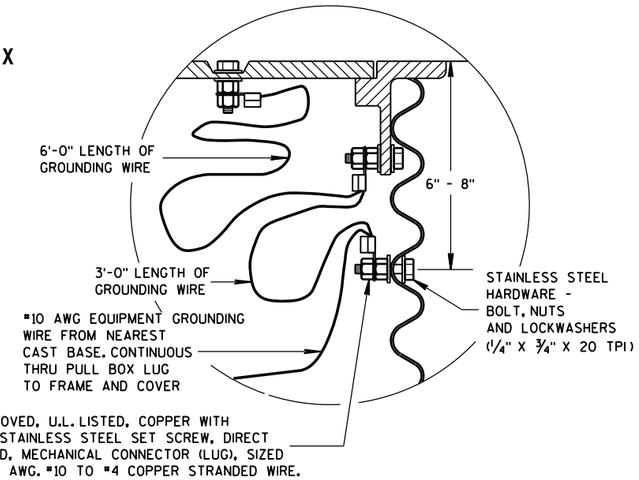
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



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

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

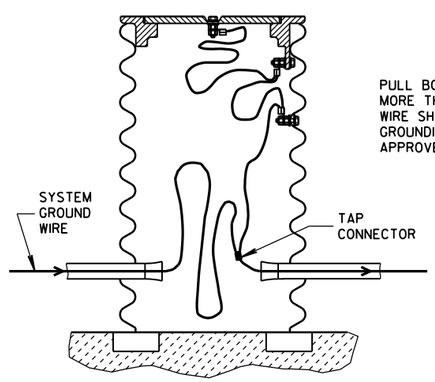
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
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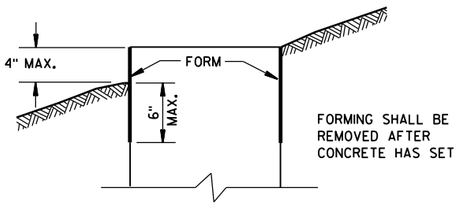
FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



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 DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 1, TYPE 2, TYPE 5, AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

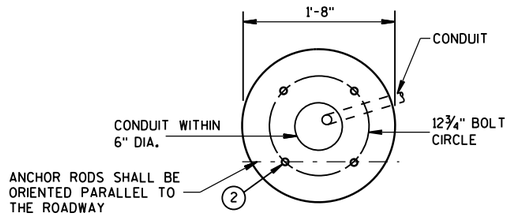
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

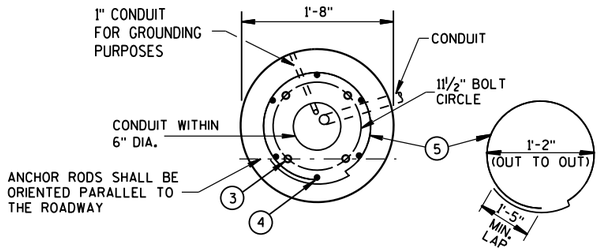
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

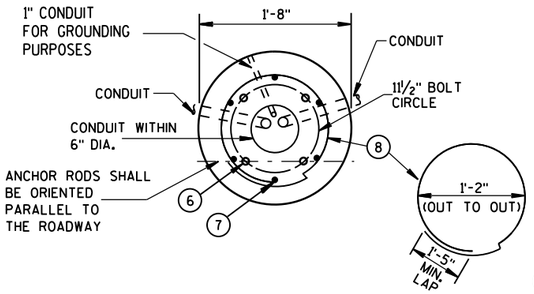
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.



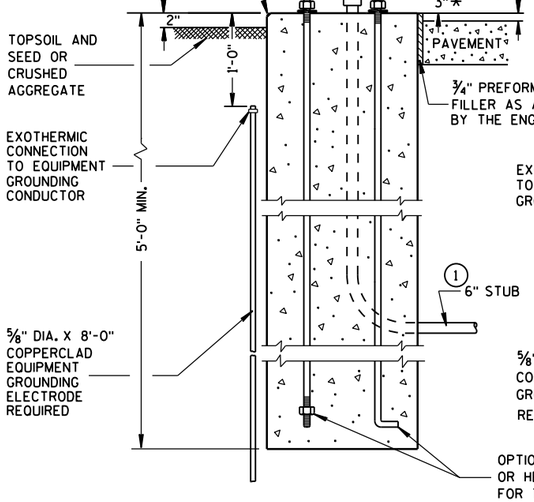




FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND

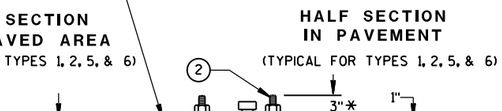
HALF SECTION IN UNPAVED AREA

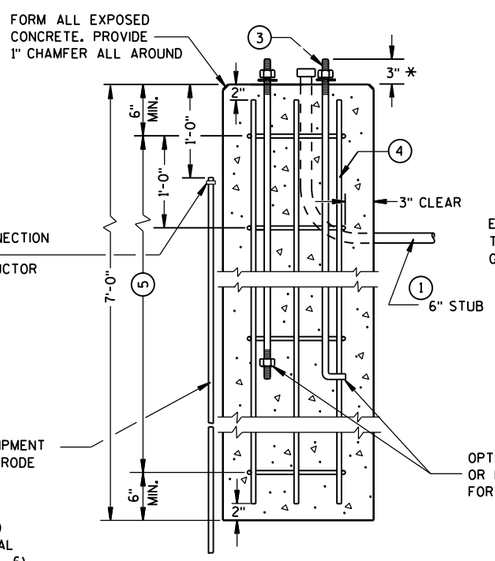
(TYPICAL FOR TYPES 1, 2, 5, & 6)



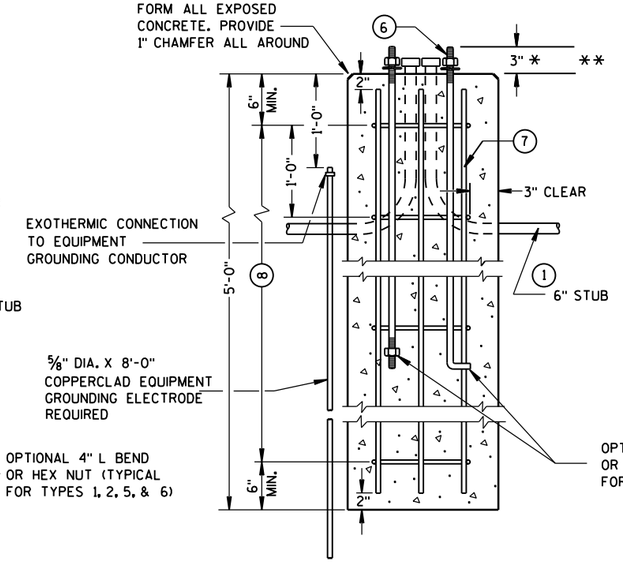
HALF SECTION IN PAVEMENT

(TYPICAL FOR TYPES 1, 2, 5, & 6)





TYPE 2



TYPE 5 & 6

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

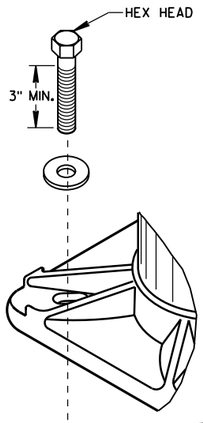
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

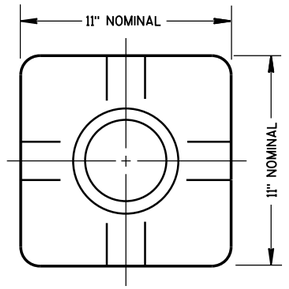
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

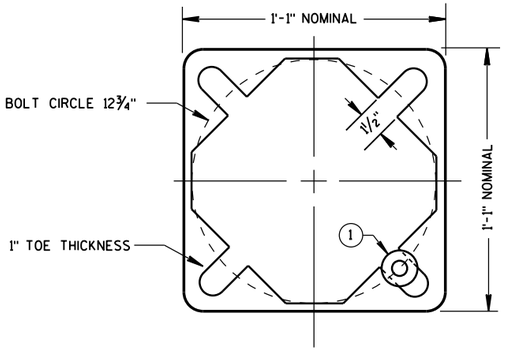
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

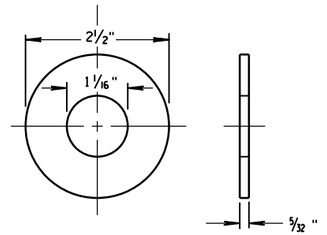




TOP VIEW
(PEDESTAL BASE)

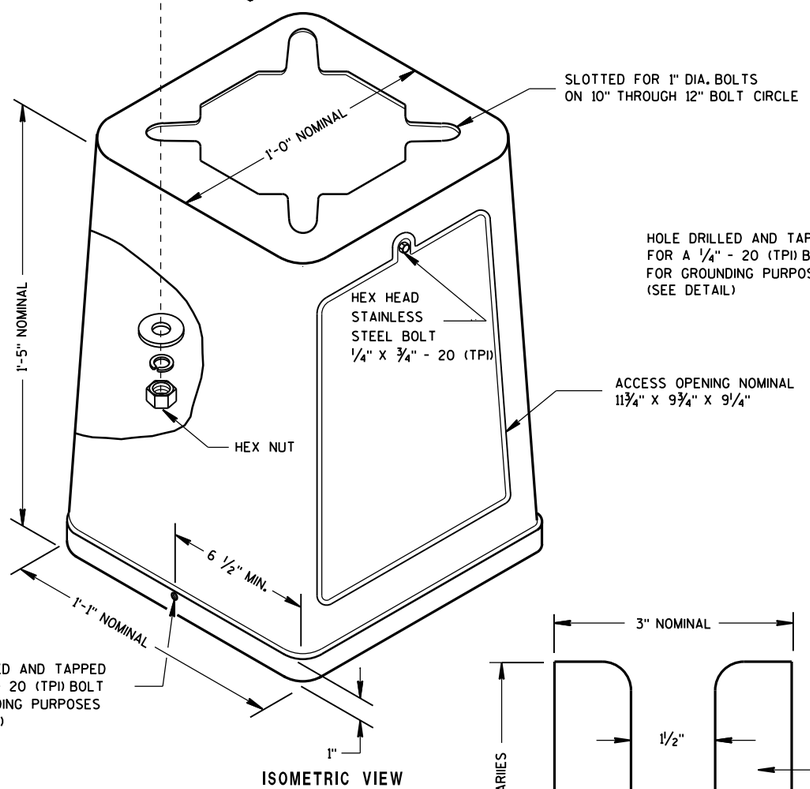


BOTTOM VIEW
(PEDESTAL BASE)

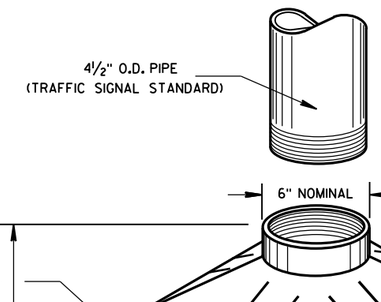


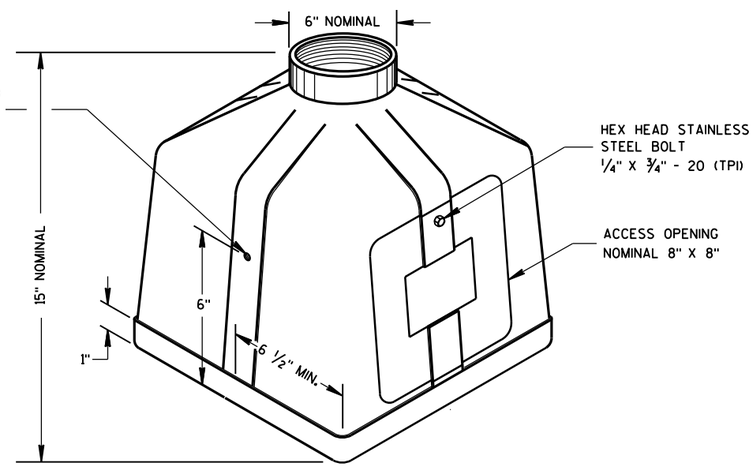
ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

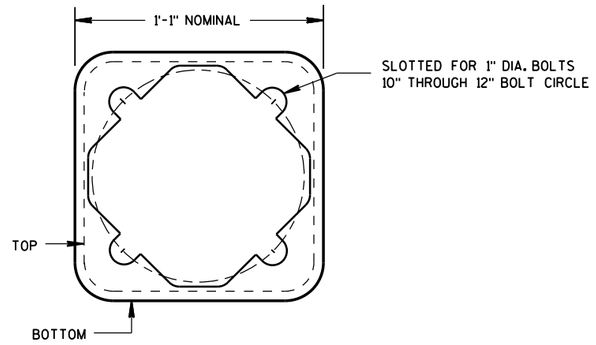


ISOMETRIC VIEW

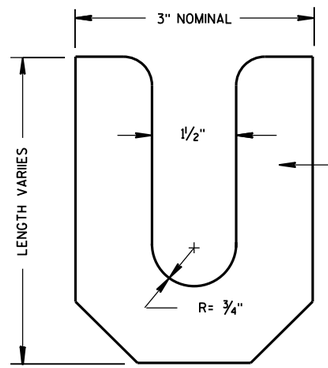




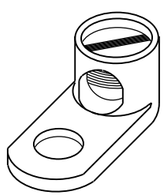
ISOMETRIC VIEW
PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)



LEVELING SHIM



TYPICAL MECHANICAL
CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE
INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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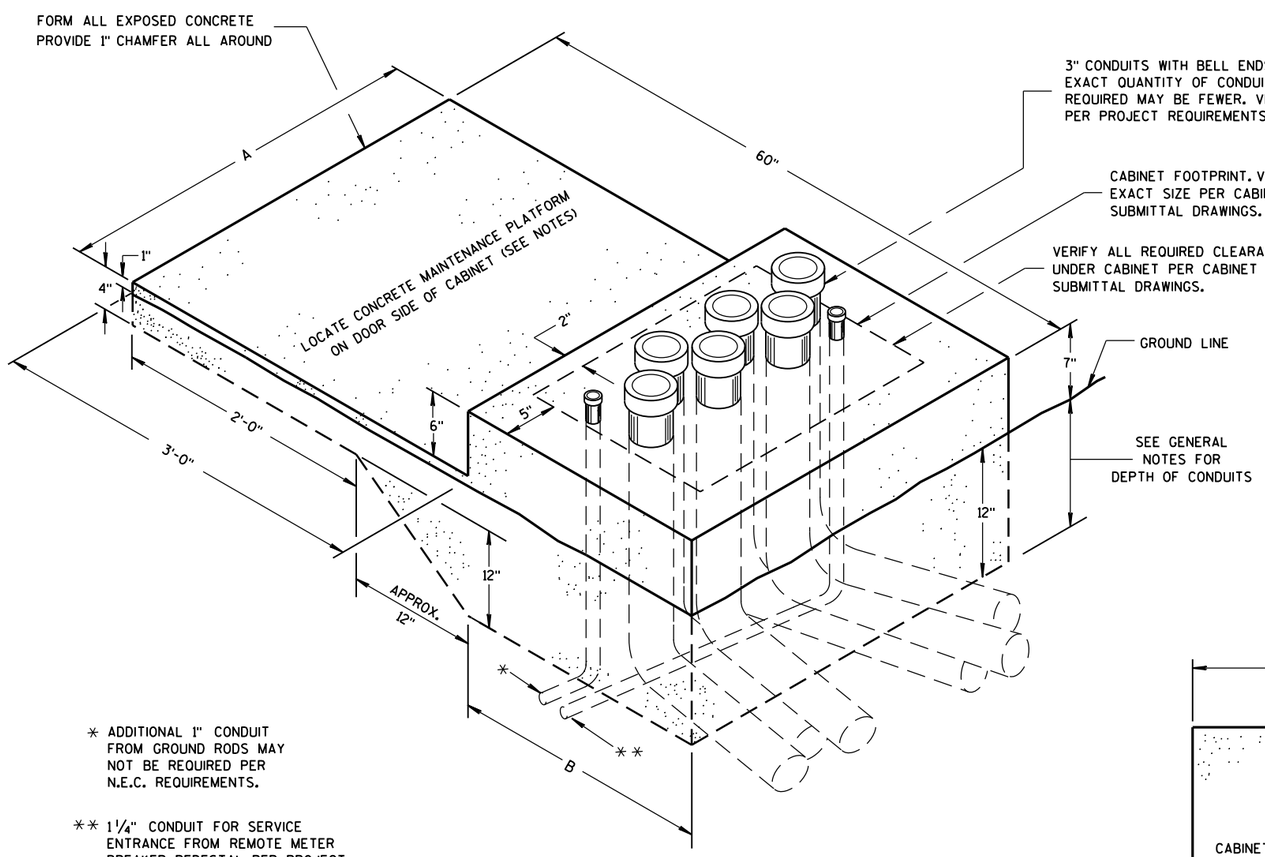


* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

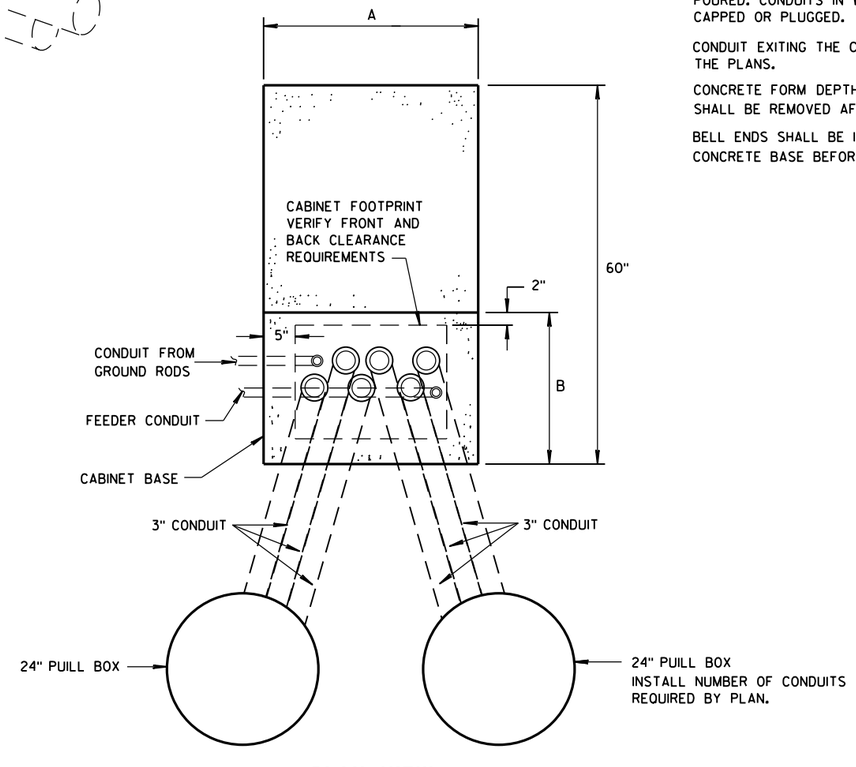
** 1¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

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

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Nov. 2014 — DATE
/S/ Thomas Gonring — STATE LIGHTING ENGINE — WYS
FHWA

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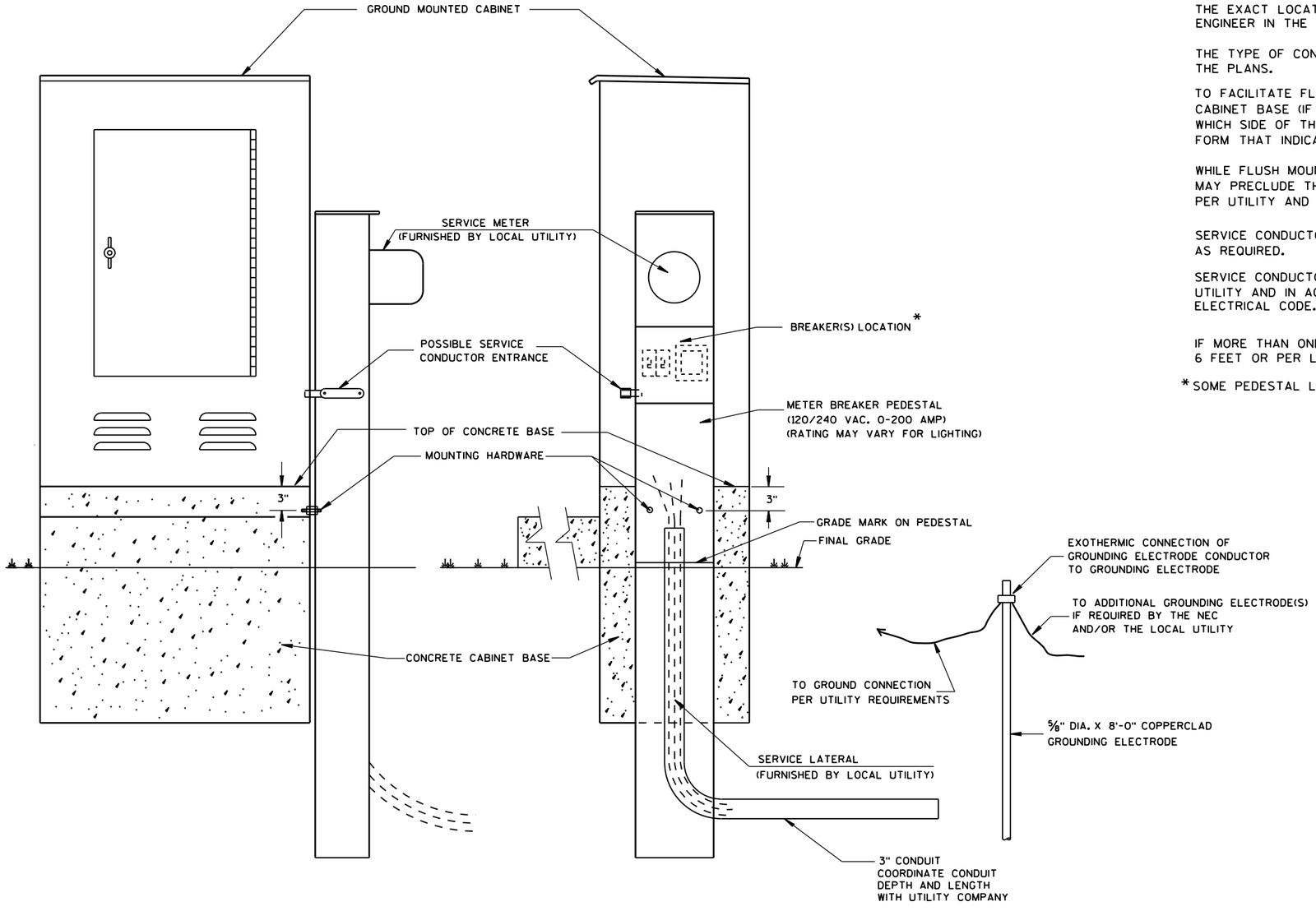

TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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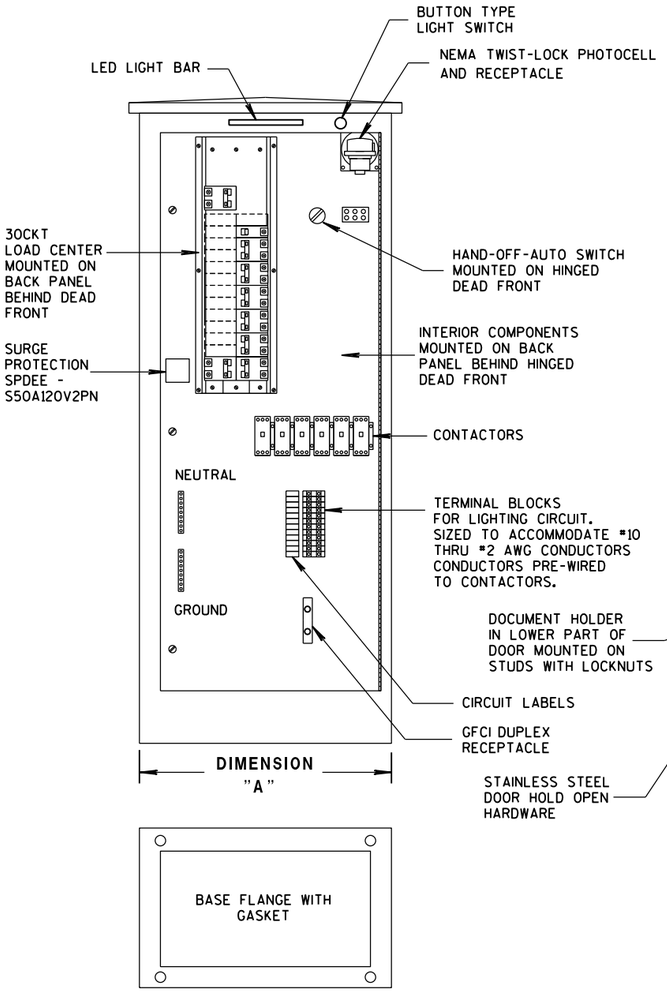
FRONT INTERIOR ELEVATION



SIDE VIEW

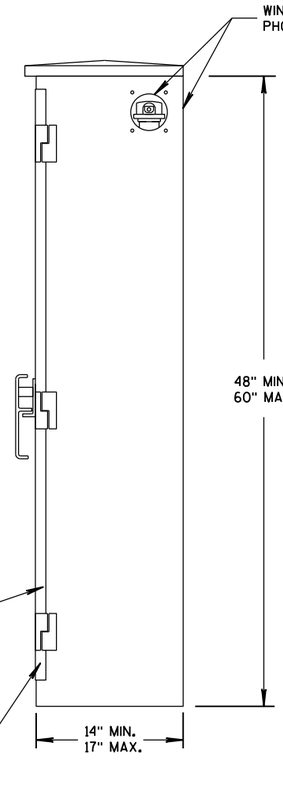
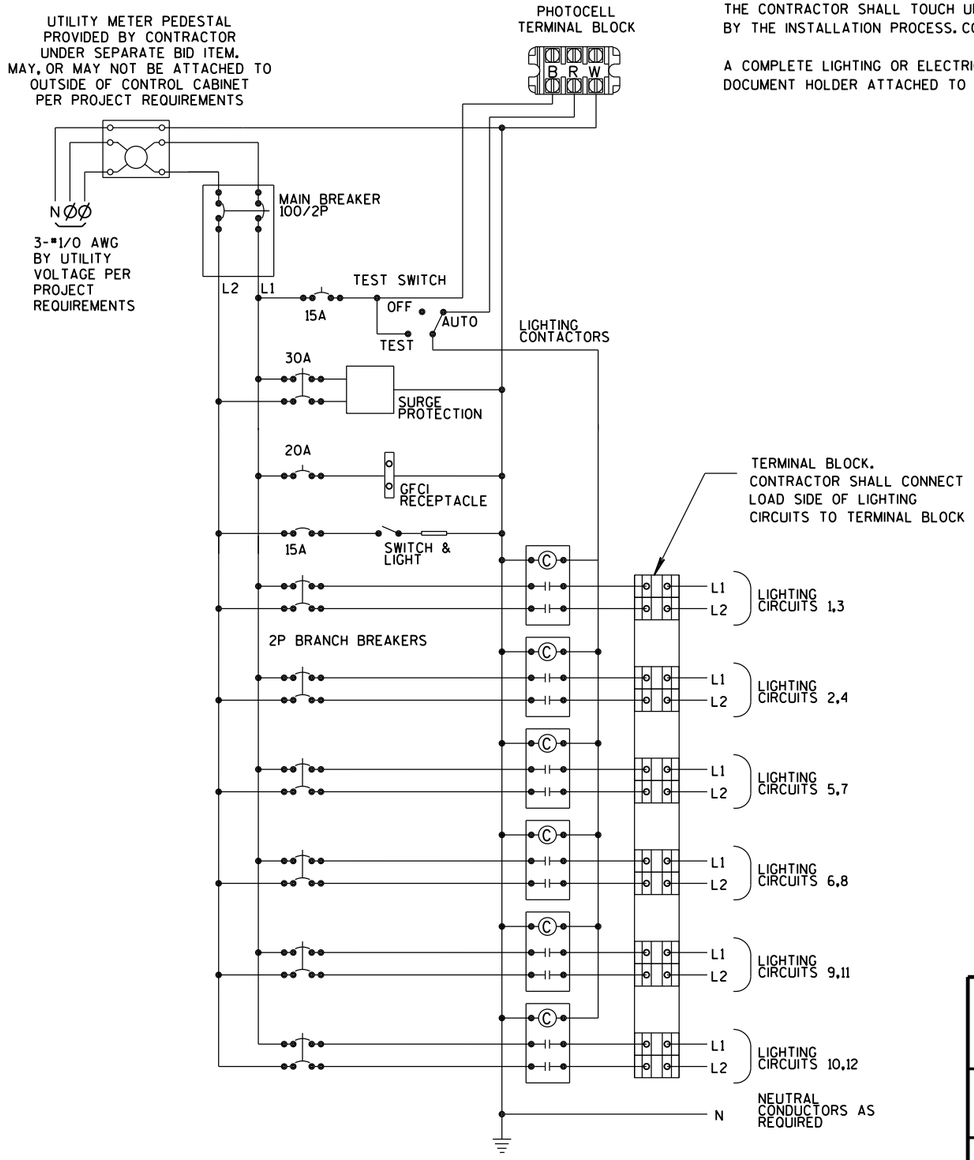


TABLE OF DIMENSIONS (INCHES)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

GENERAL NOTES

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

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE-WIRED BY THE CABINET FABRICATOR.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

LIGHTING CONTROL CABINET 120/240 VOLT

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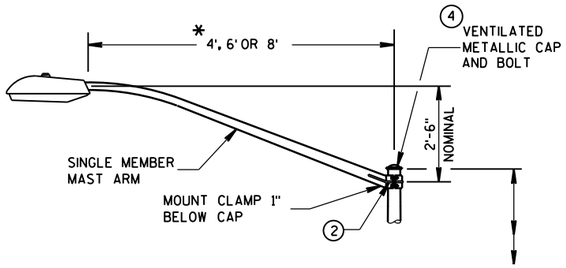
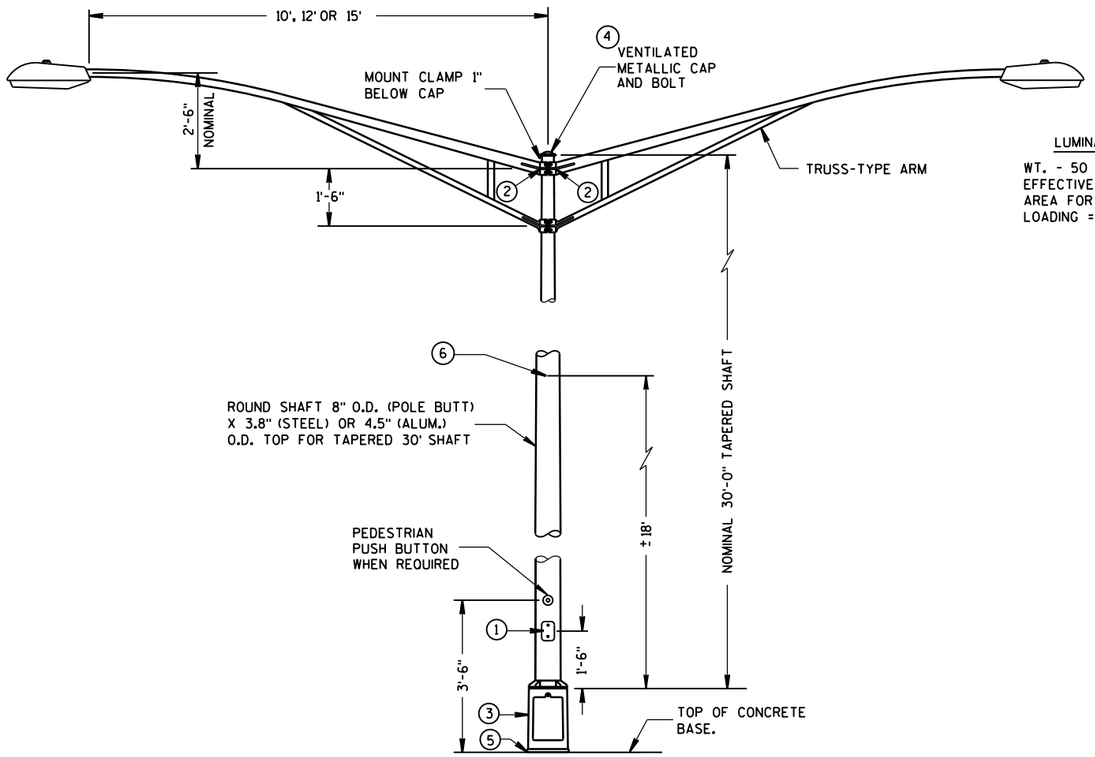
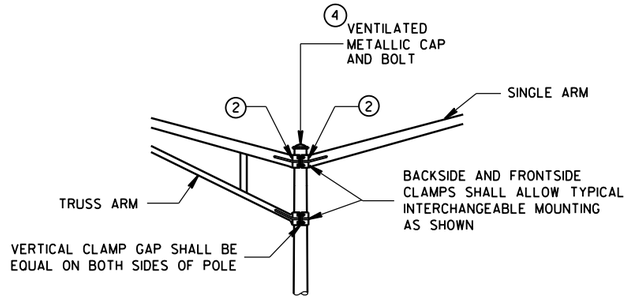
*RISE FOR 4' ARM SHALL BE 2'-0".





TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED
AREA FOR WIND
LOADING = 1.5 SQ. FT.

GENERAL NOTES

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

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.188".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONEECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(6) INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

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POLE MONTINGS FOR
LIGHTING UNITS, TYPE 5
(30 FEET)

STATE OF WISCONSIN
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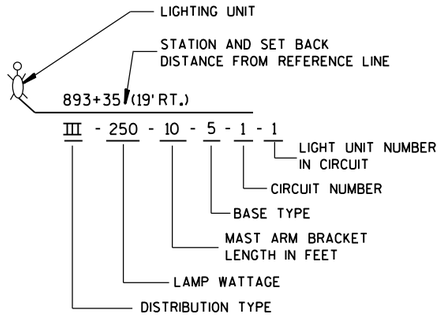
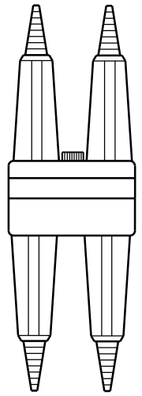
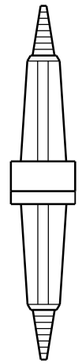


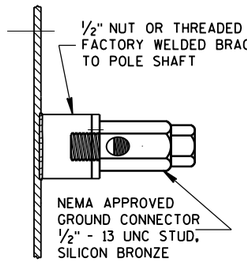
LIGHTING UNIT CODE
(TYPICAL)

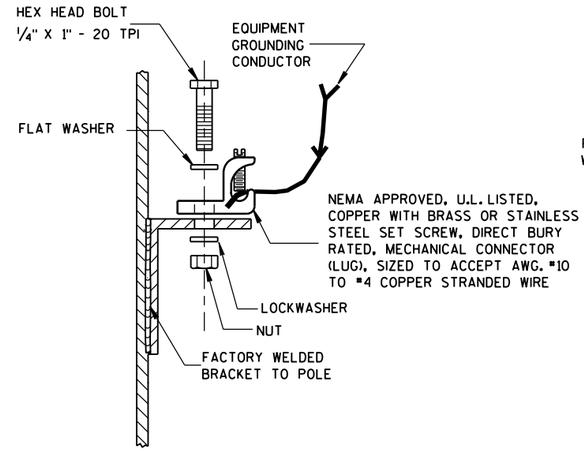


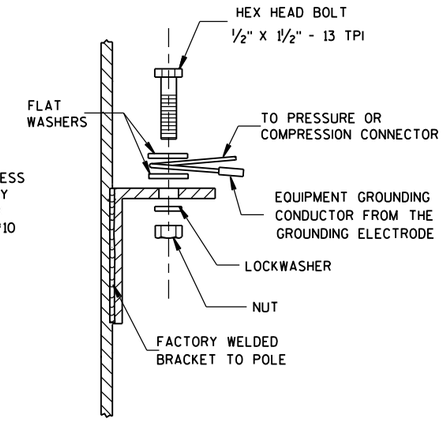
DETAIL "A"
BREAKAWY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



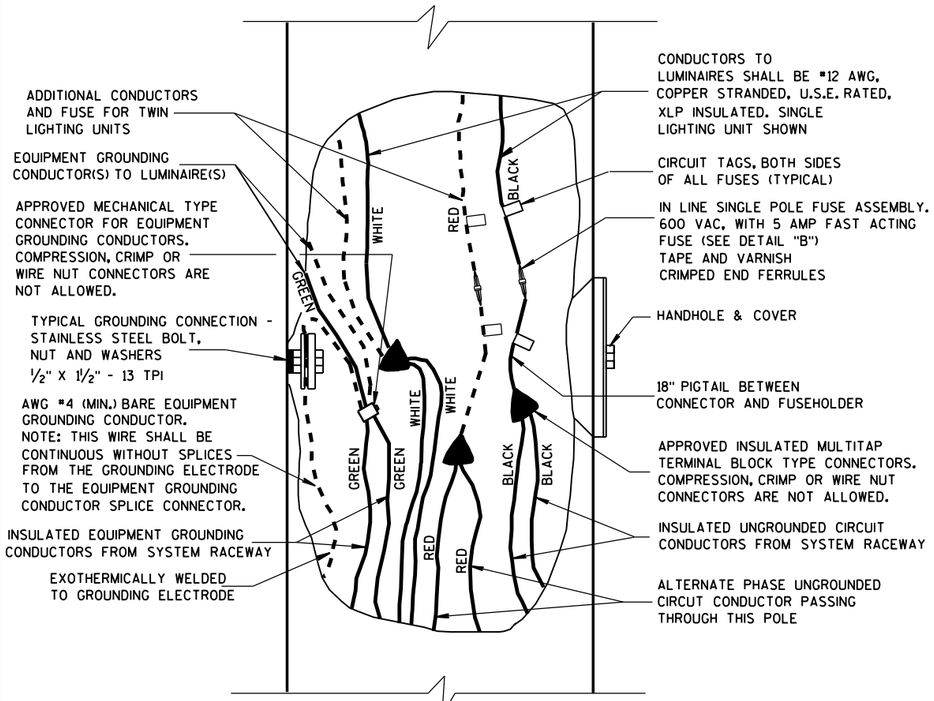
DETAIL "B"
BREAKAWY SINGLE POLE WITH WATERPROOF INSULATING BOOT



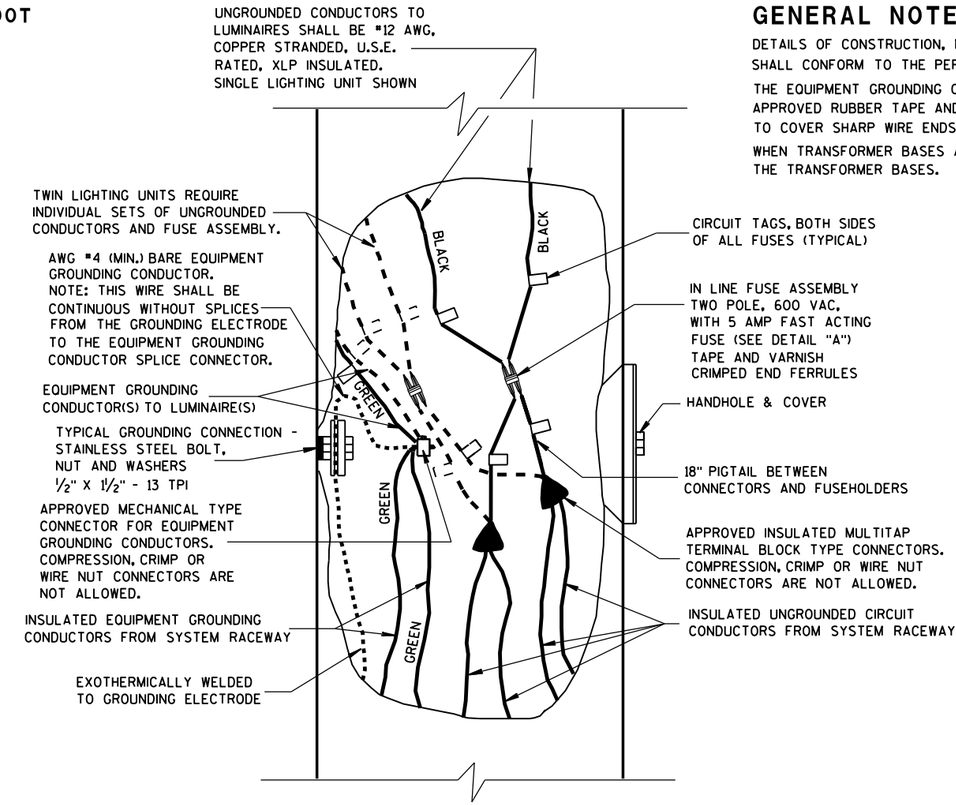




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTOR) WITH GROUNDED CONDUCTOR AND WITH EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

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

THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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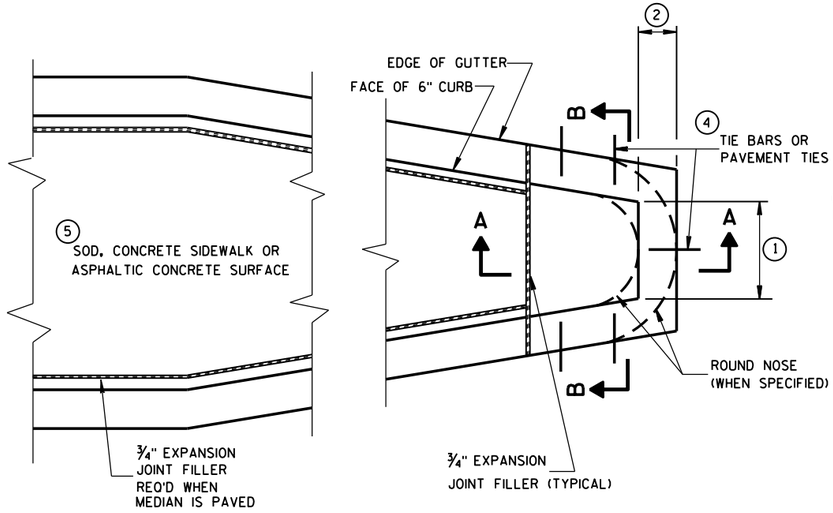
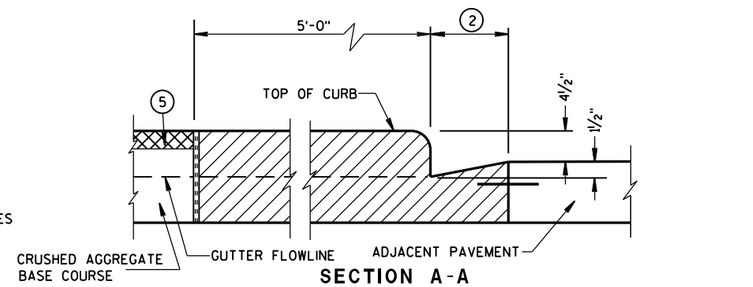
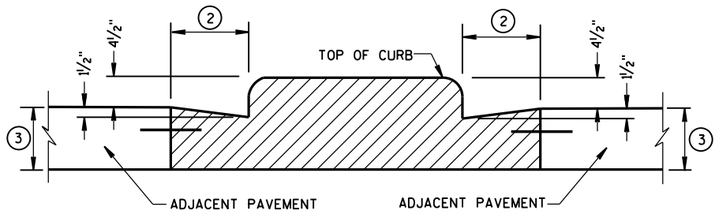






CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

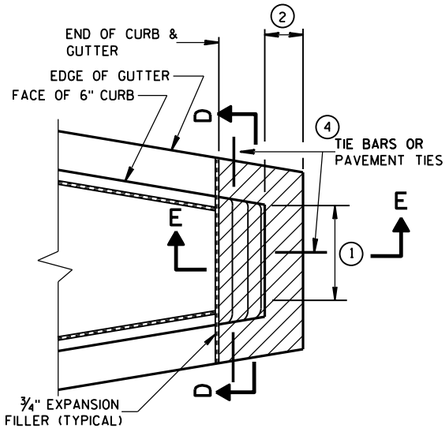
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

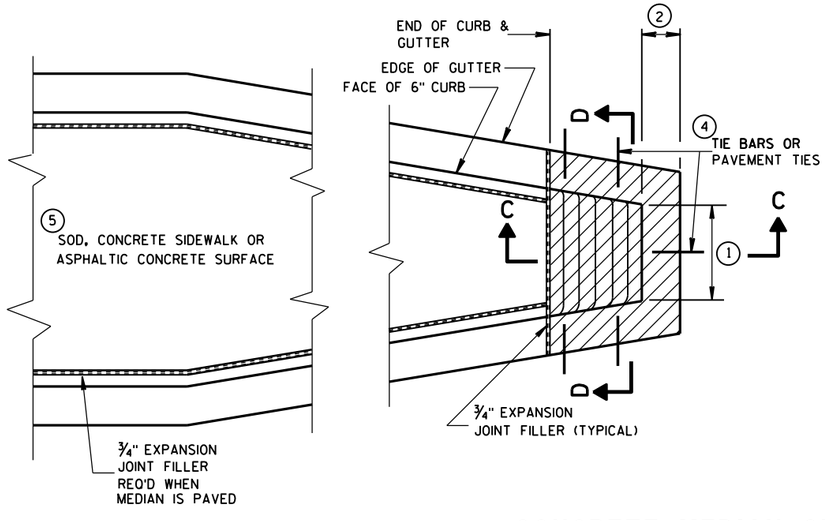
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

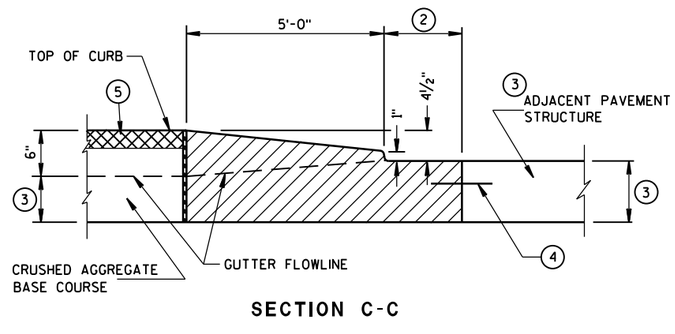
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

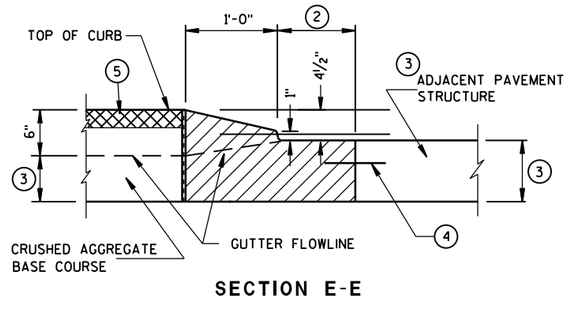
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



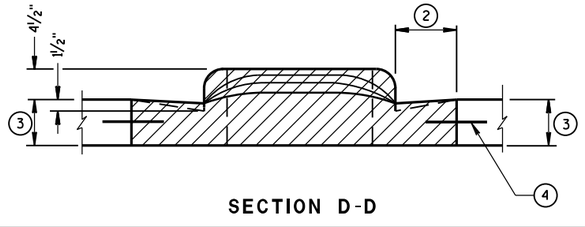






CONCRETE MEDIAN SLOPED NOSE TYPE 2

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

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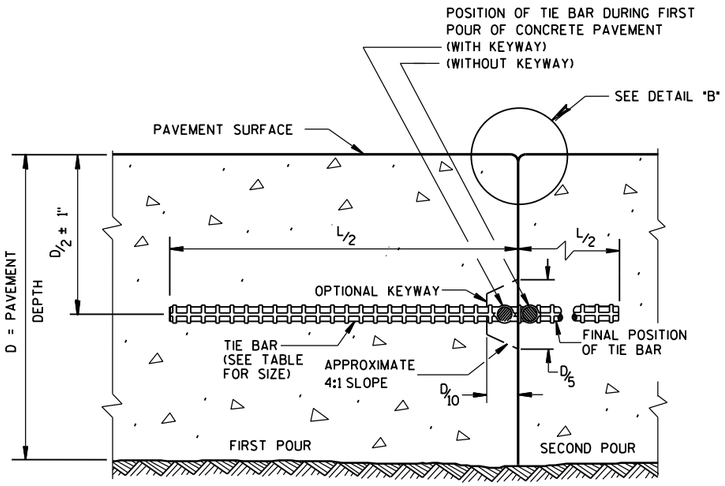
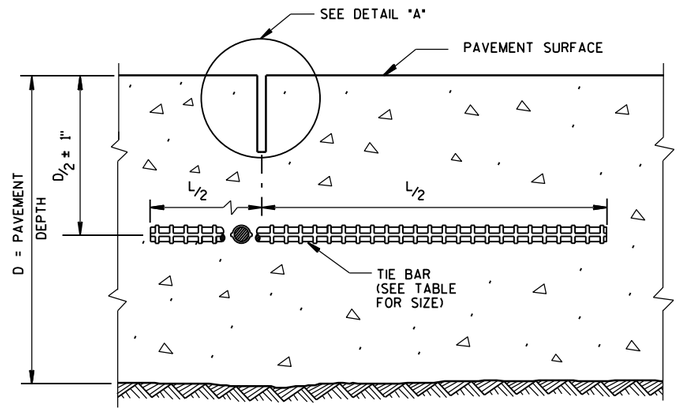


CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

PLAN VIEW

SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

DETAIL "A"

DETAIL "B"

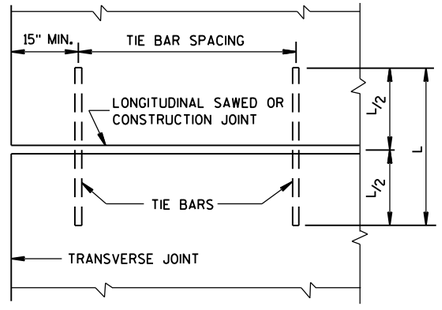
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPER

FHWA

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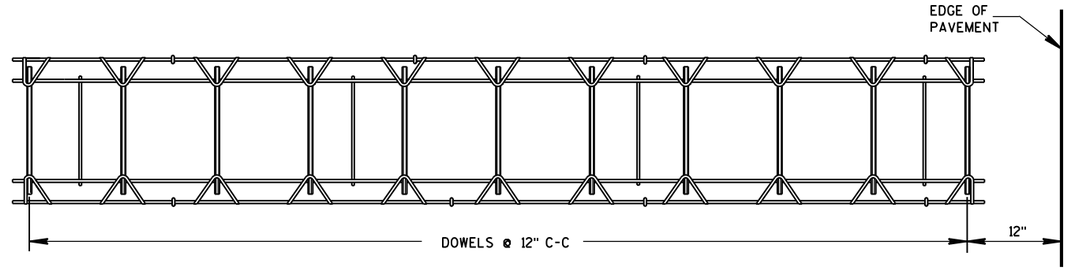
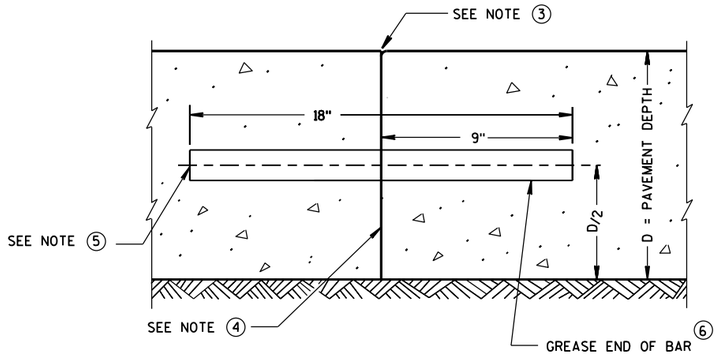


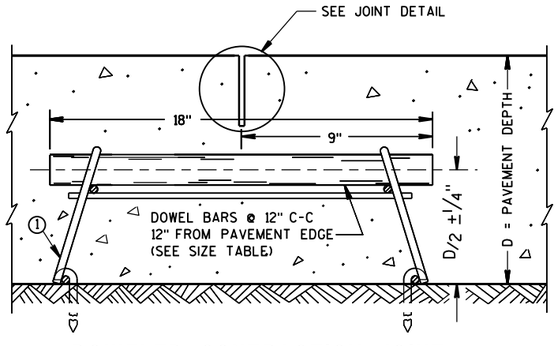
PLAN VIEW

SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



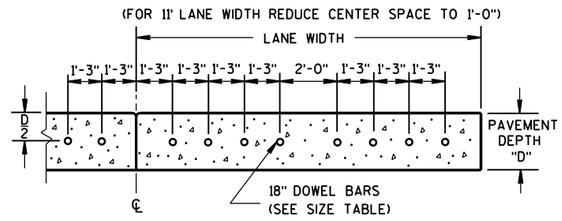
TRANSVERSE CONSTRUCTION JOINT



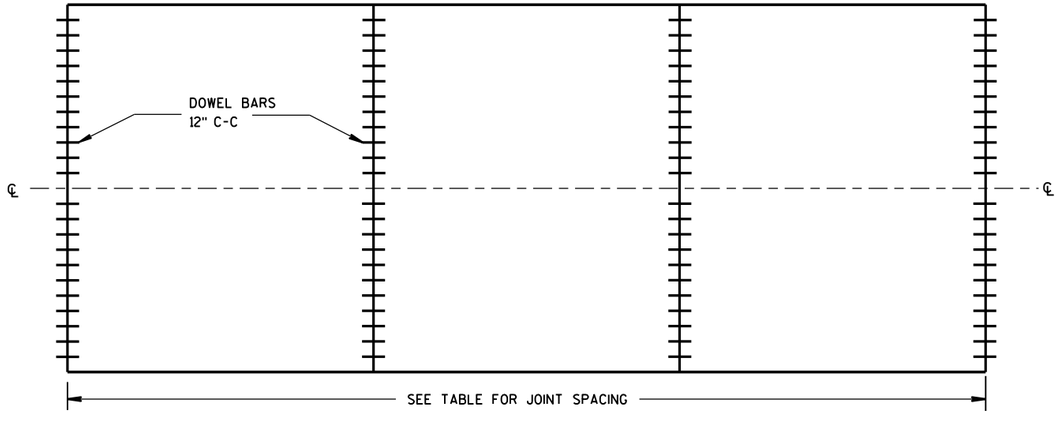
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① **OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.**

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

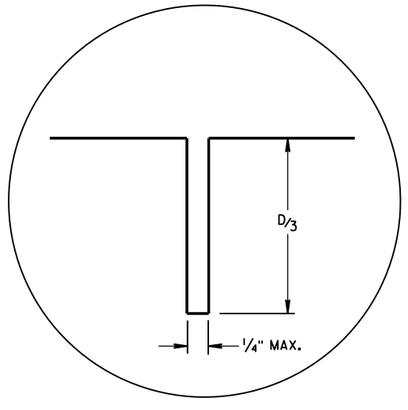
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

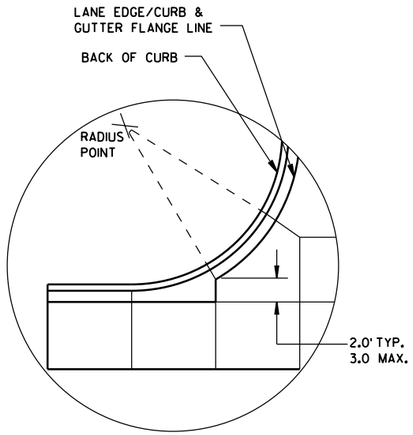
URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

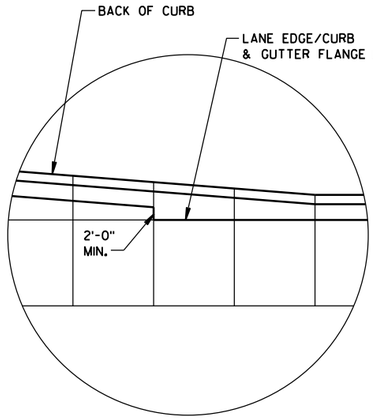
APPROVED
5/3/2013 DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE
FHWA

6

S.D.D. 13 C 13-8



DETAIL "A"



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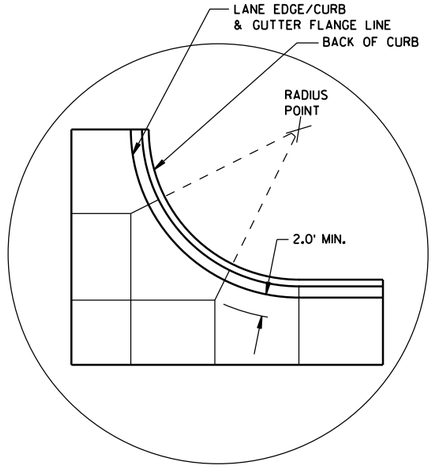

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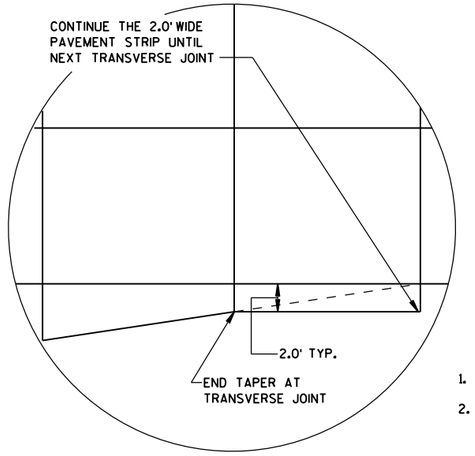


DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

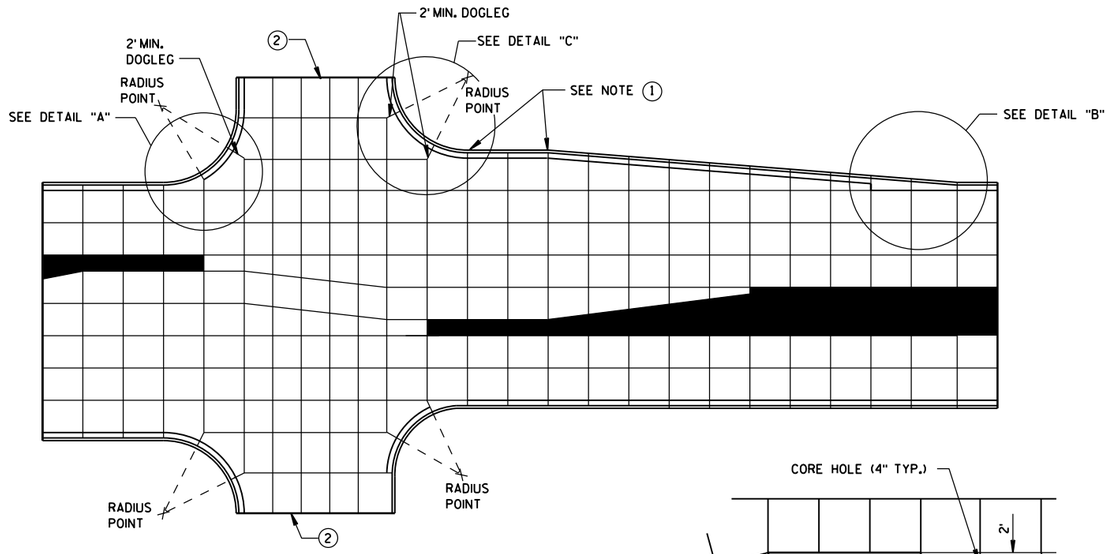
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

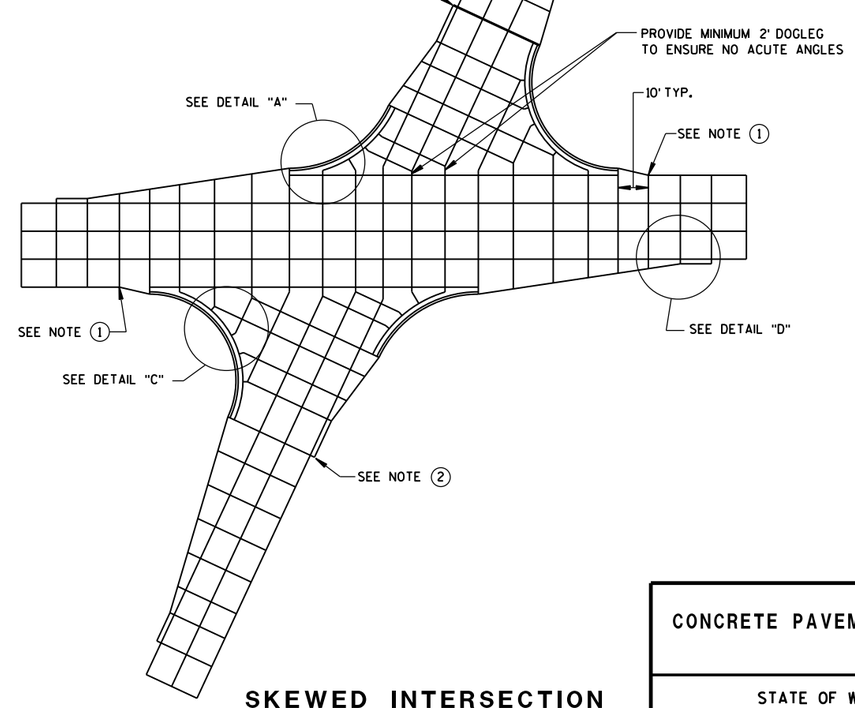
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



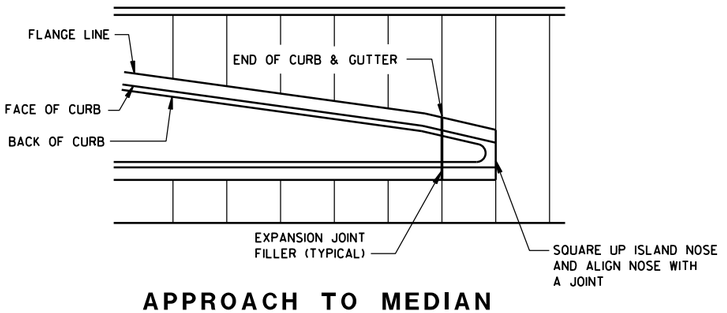
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

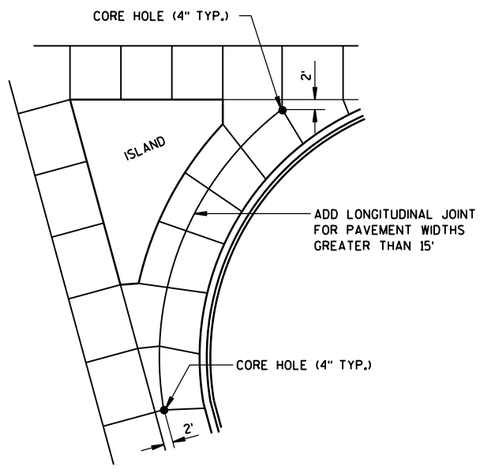
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 198

6

S.D.D. 13 C 18-3a

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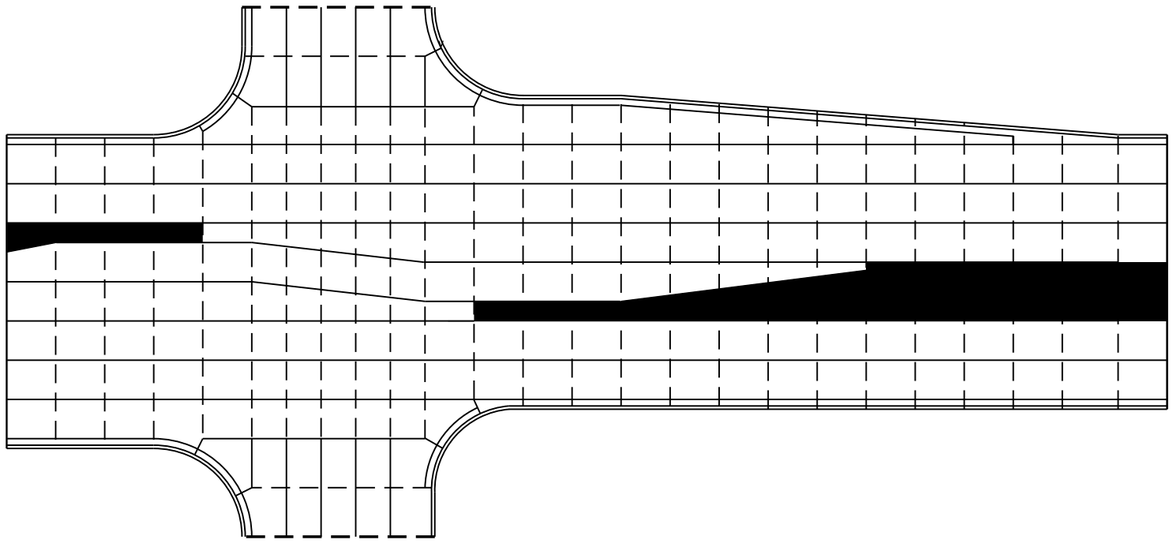
S.D.D. 13 C 18-3a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

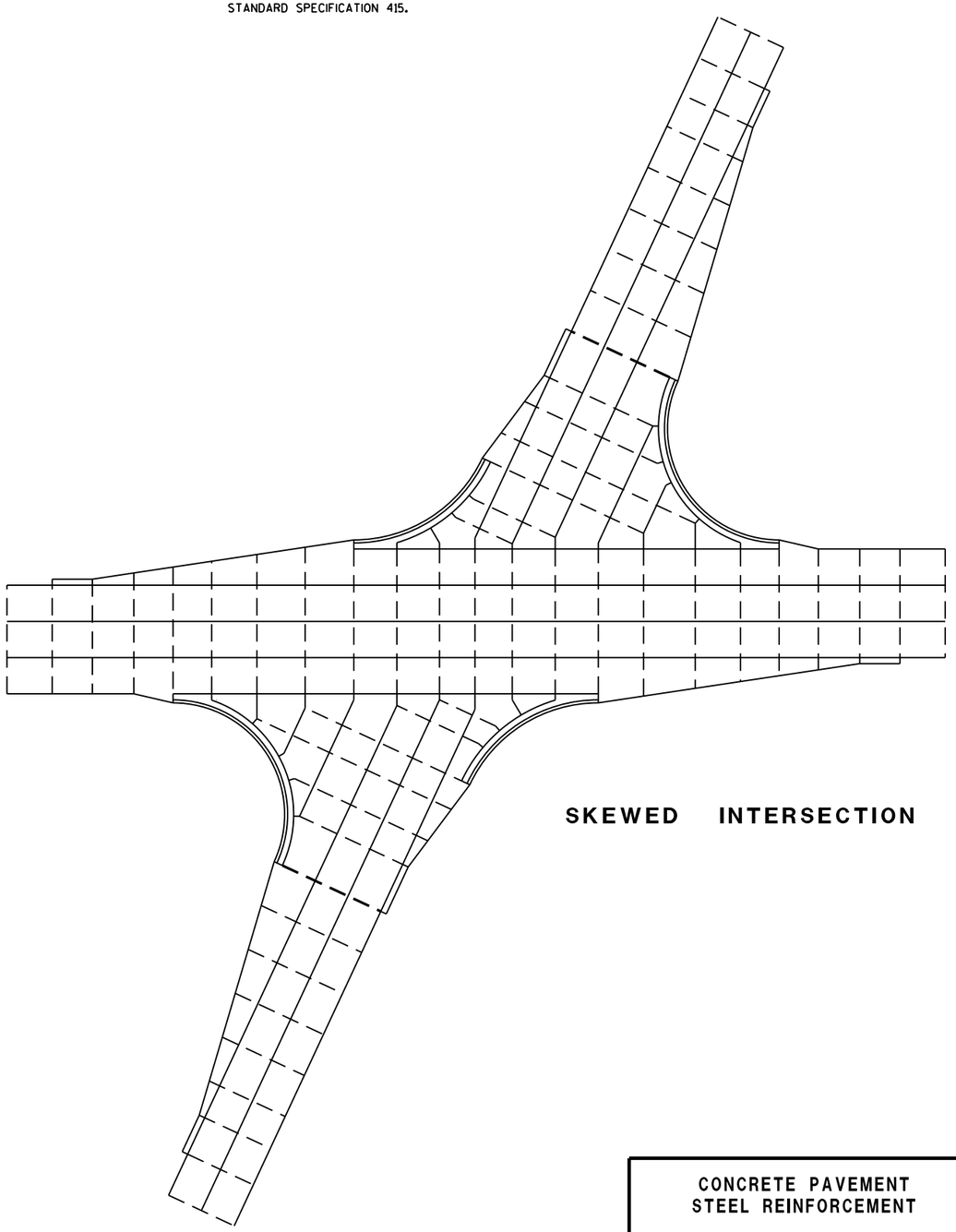
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

CONCRETE PAVEMENT
STEEL REINFORCEMENT

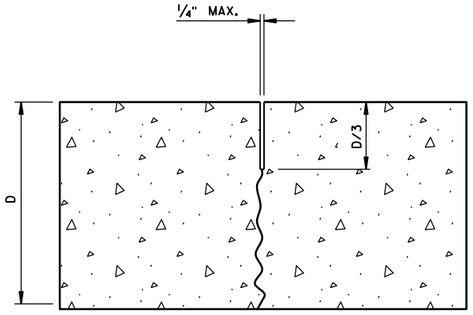
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

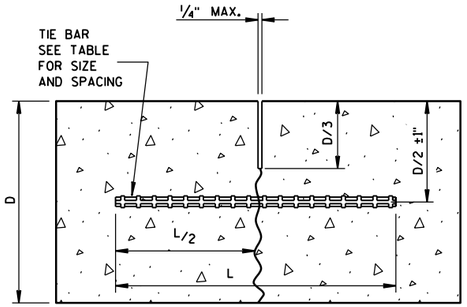
S.D.D. 13 C 18-3b

6

S.D.D. 13 C 18-3b



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

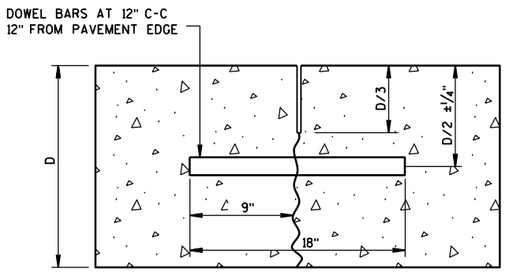
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

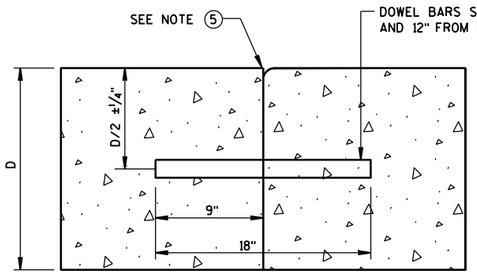
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



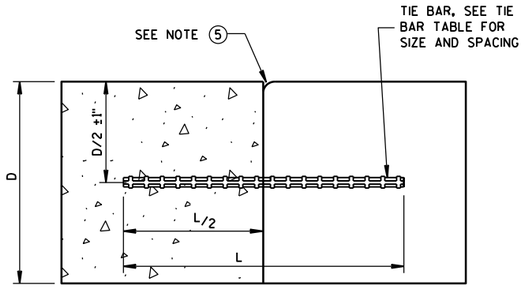
DOWELED-TRANSVERSE

CONTRACTION JOINTS

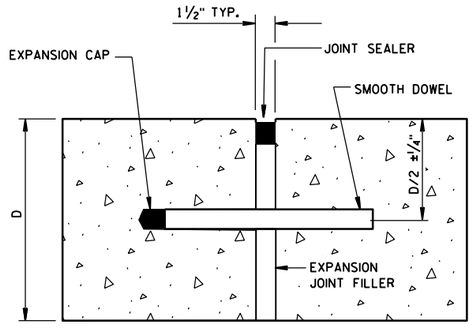
SEE NOTE (2)



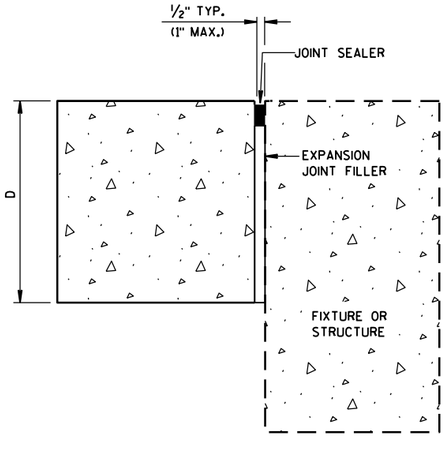
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL

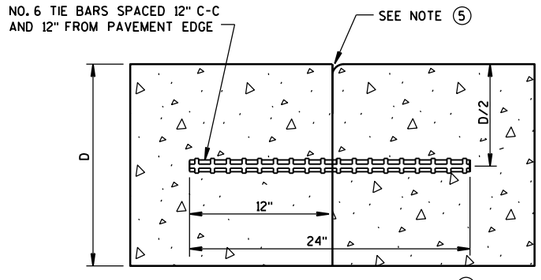


DOWELED-TRANSVERSE
SEE NOTE (1)

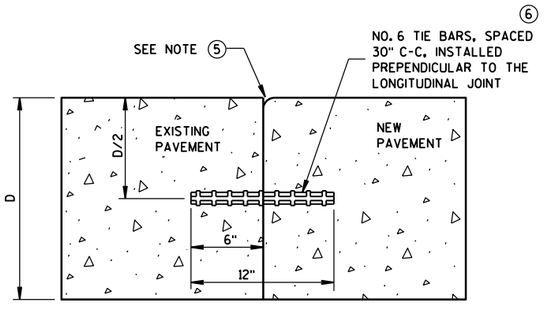


UNTIED-LONGITUDINAL

EXPANSION JOINTS



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS

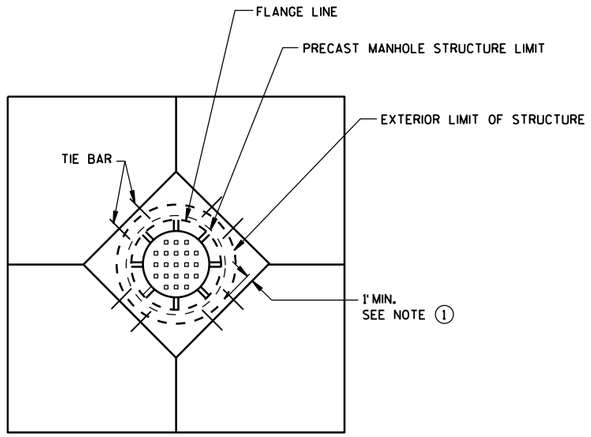
SEE NOTE (4)

CONCRETE PAVEMENT
JOINT TYPES

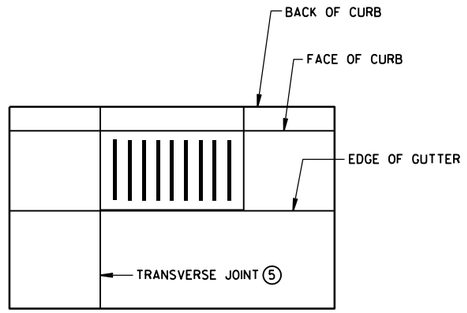
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

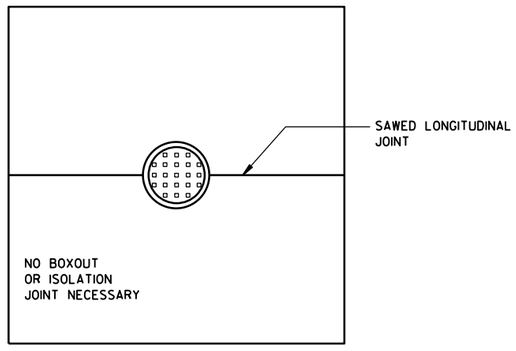
S.D.D. 13 C 18-3c



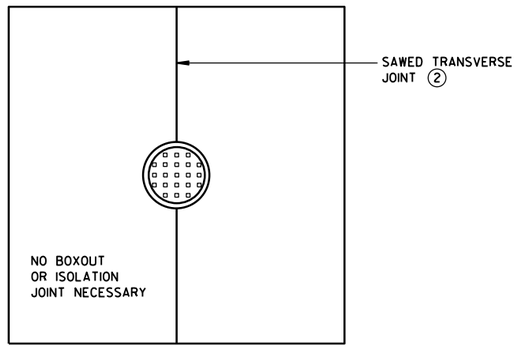
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



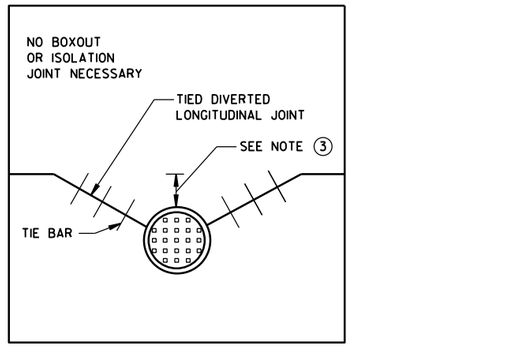
INLET WITH TRANSVERSE JOINT



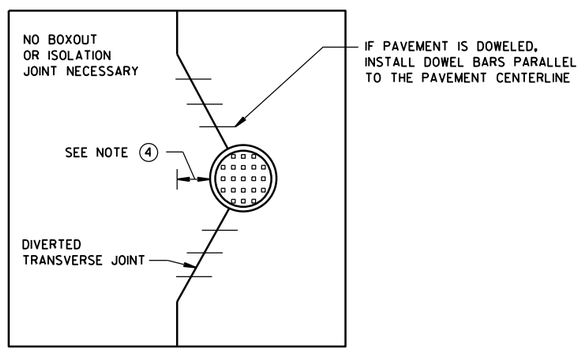
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

(1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

(2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

(3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

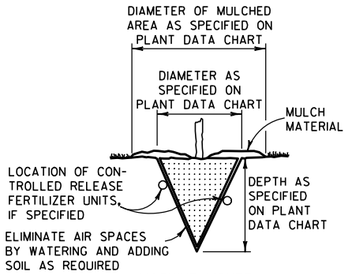
CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

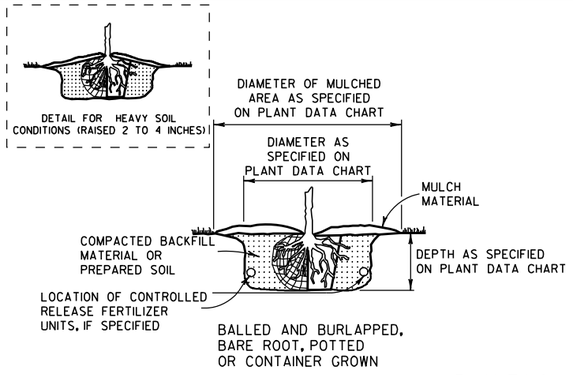
APPROVED
June, 2015
DATE
/S/ Peter Kemp, P.E.
PAVEMENT SUPER
FHWA

6

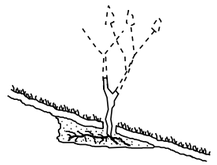
S.D.D. 13 C 18-3d



MACHINE MOVED

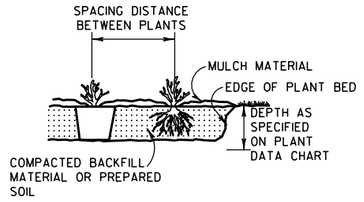


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



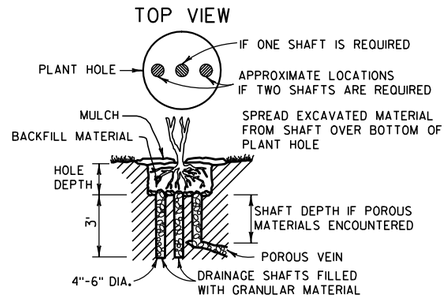
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



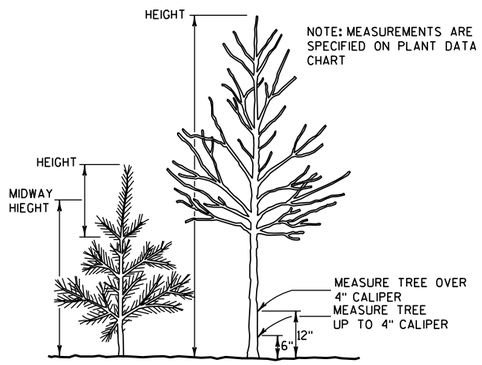
PREPARED BED (BARE ROOT AND POTTED)

PLANTING



NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

DRAINING



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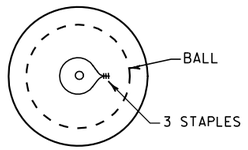
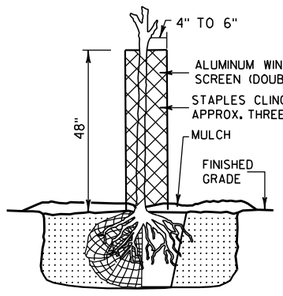
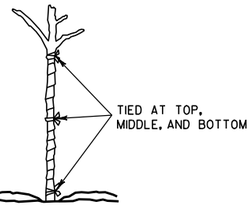


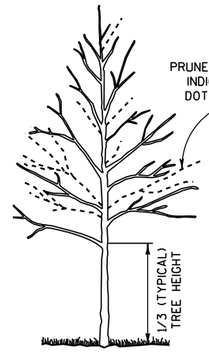
TOP VIEW



RODENT PROTECTION



WRAPPING

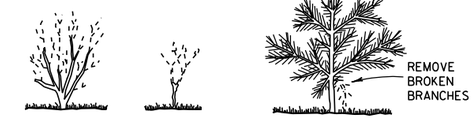


TALL DECIDUOUS TREES (ASH, MAPLE, LINDEN, OAK)

SINGLE STEMMED LOW DECIDUOUS TREES (CRABS AND OTHER SINGLE STEM TYPE)

MULTI-STEMMED LOW DECIDUOUS TREES OR LARGE SHRUBS (HAWTHORN, SERVICEBERRY)

NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES

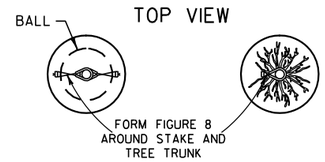


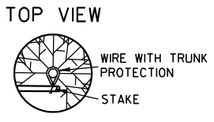
SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

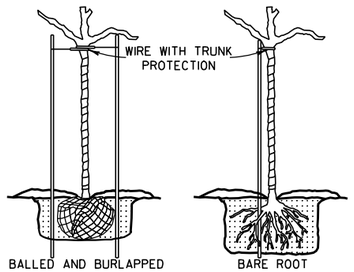
SUMAC

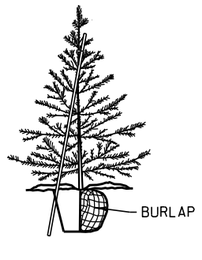
TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

PRUNING



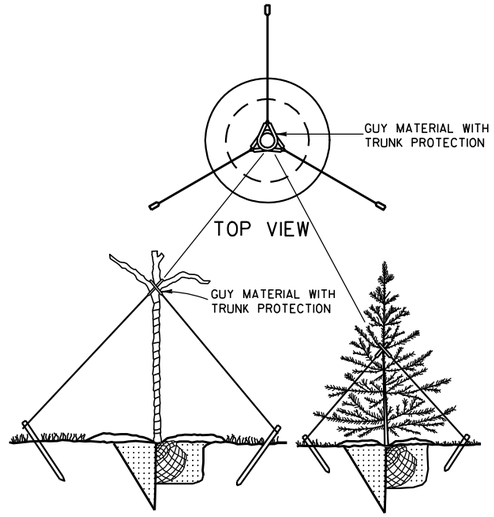






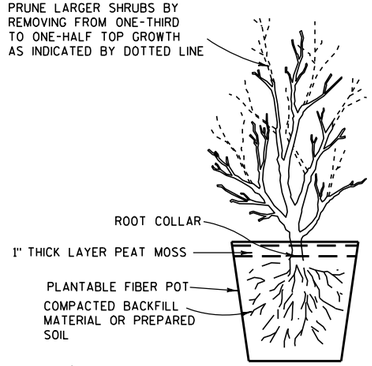
NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING

PRUNE LARGER SHRUBS BY REMOVING FROM ONE-THIRD TO ONE-HALF TOP GROWTH AS INDICATED BY DOTTED LINE



POTTING

NOTES

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

BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

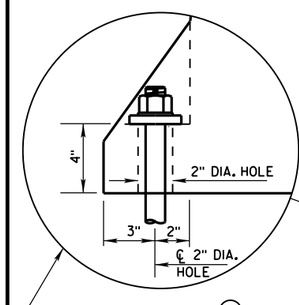
TREE PLANTING DETAIL

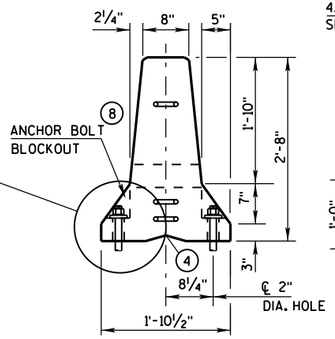
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/11/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

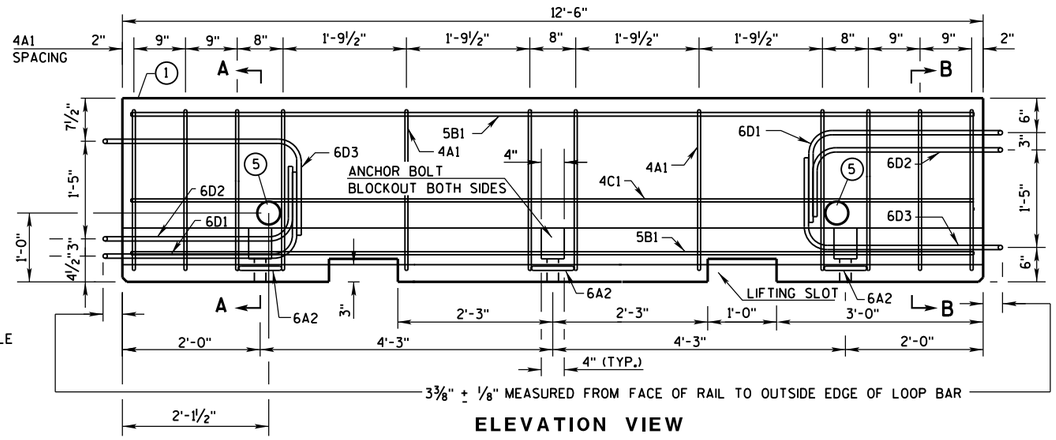
S.D.D. 14 A 2-1

6

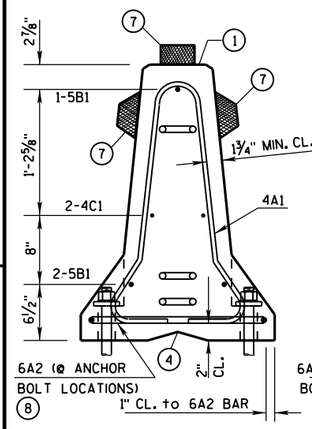




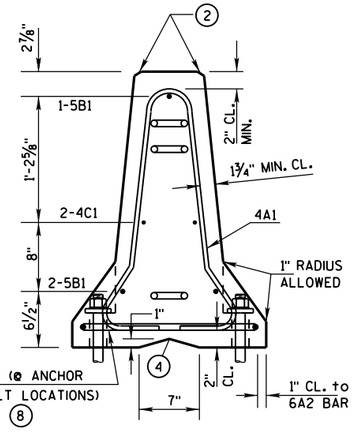
END VIEW



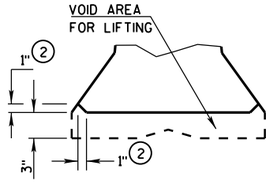
ELEVATION VIEW



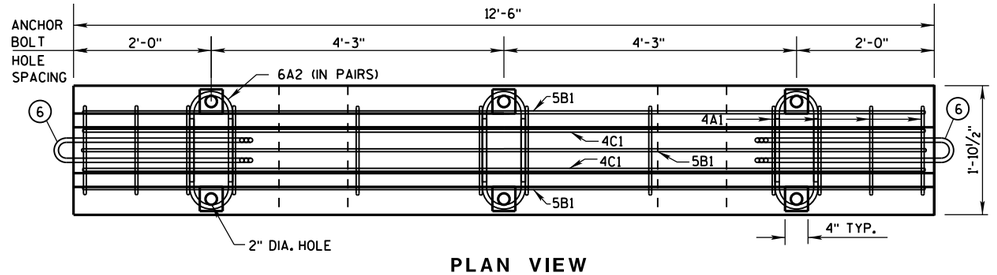
SECTION A-A
(STIRRUP PLACEMENT)



SECTION B-B
(STIRRUP PLACEMENT)

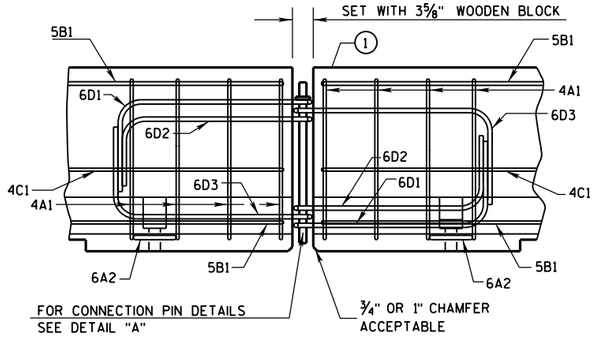


DETAIL "B"
LIFTING SLOT DETAIL

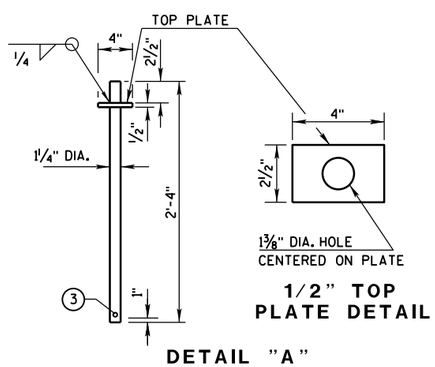


PLAN VIEW

DETAILS OF BARRIER SECTION

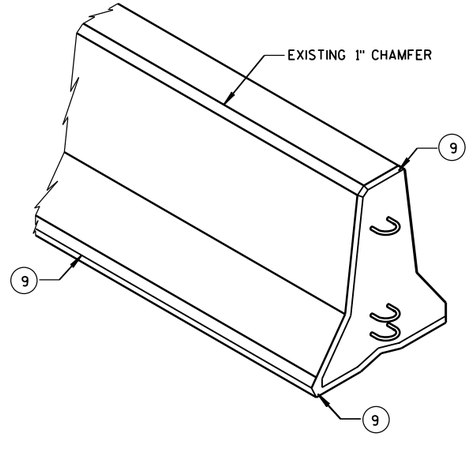


DETAILS OF BARRIER CONNECTION



1/2" TOP
PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-14(a) THRU 14B7-14(h).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

(8) SEE SHEET D FOR ANCHORING CRITERIA.

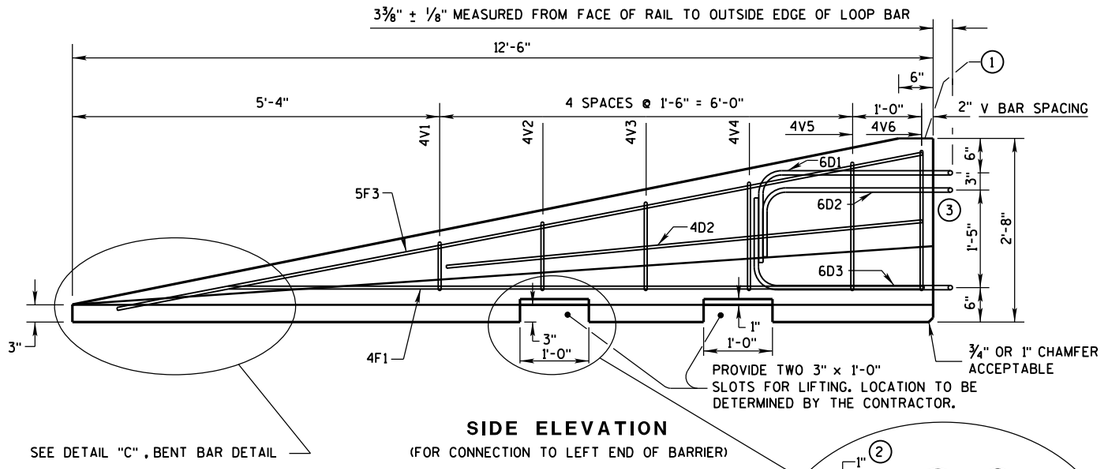
(9) 1" CHAMFER OPTIONAL.

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

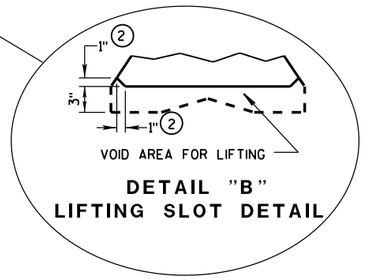
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

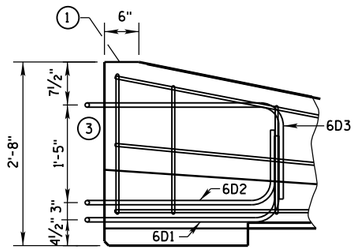
S.D.D. 14 B 7-14a



SIDE ELEVATION
(FOR CONNECTION TO LEFT END OF BARRIER)



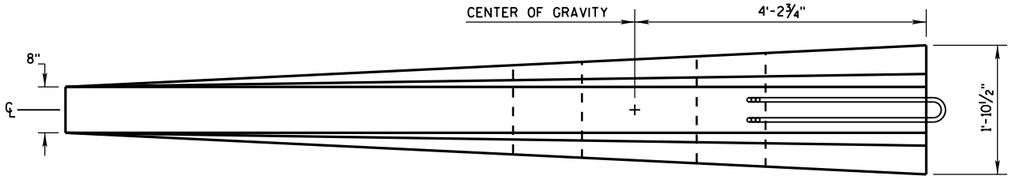
DETAIL "B"
LIFTING SLOT DETAIL



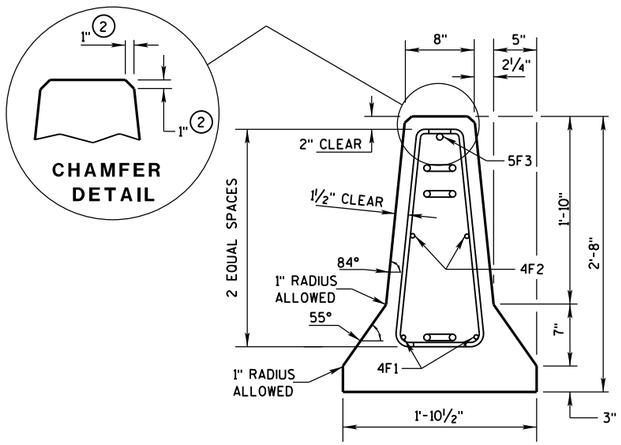
SIDE ELEVATION
LOOP BAR ASSEMBLY INVERTED
FOR OPPOSITE END.
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

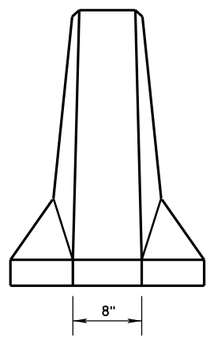
1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.



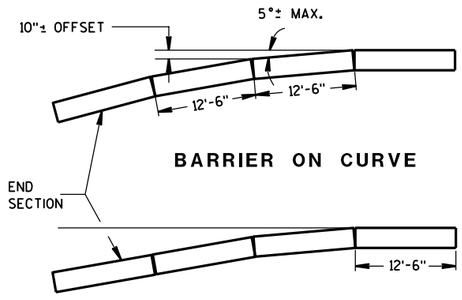
PLAN VIEW



END SECTION



FRONT ELEVATION



BARRIER ON CURVE

FLARE AT BARRIER END

POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

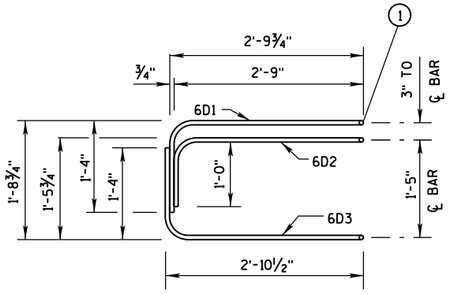
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-14b

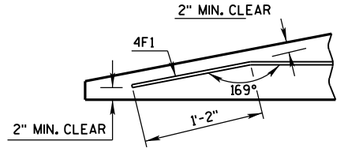
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

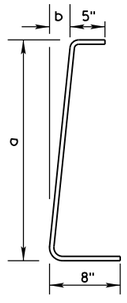
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

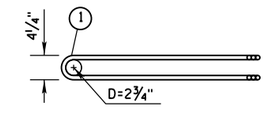
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

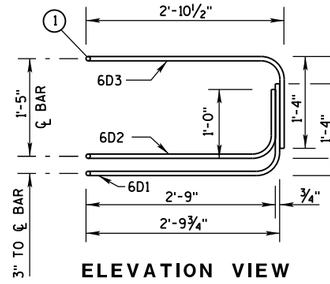
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

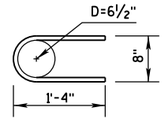
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



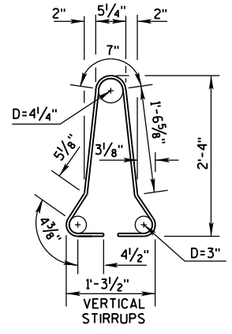
PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



ELEVATION VIEW



6A2



4A1

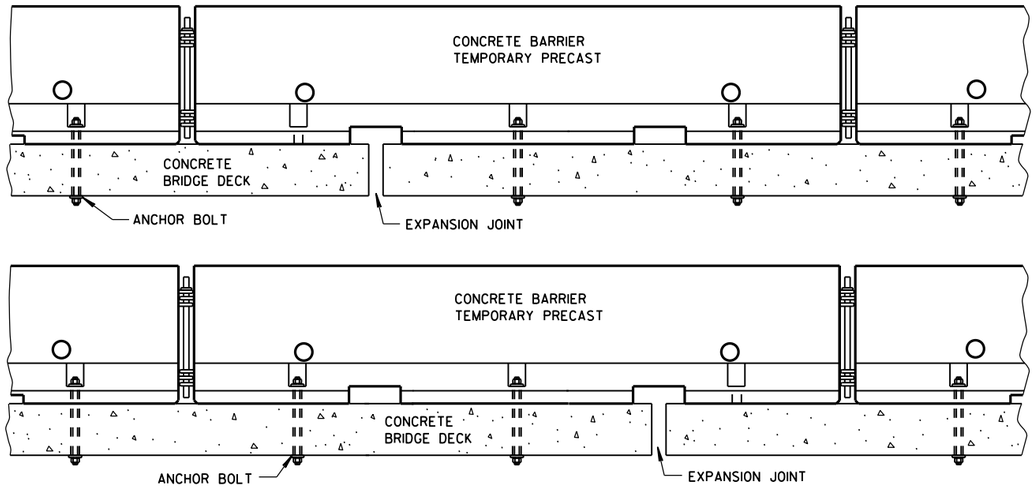
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

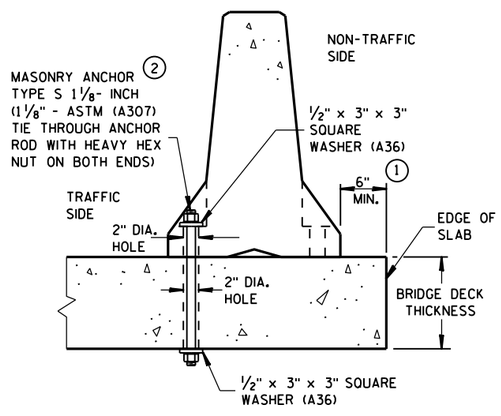
6

S.D.D. 14 B 7-14c



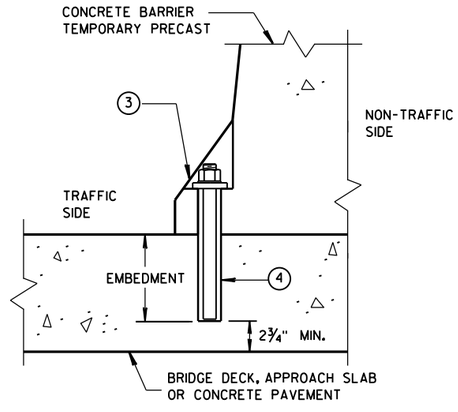
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)



THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)



REMOVABLE ADHESIVE BONDED ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT ②

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

① CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF:
THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT. IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

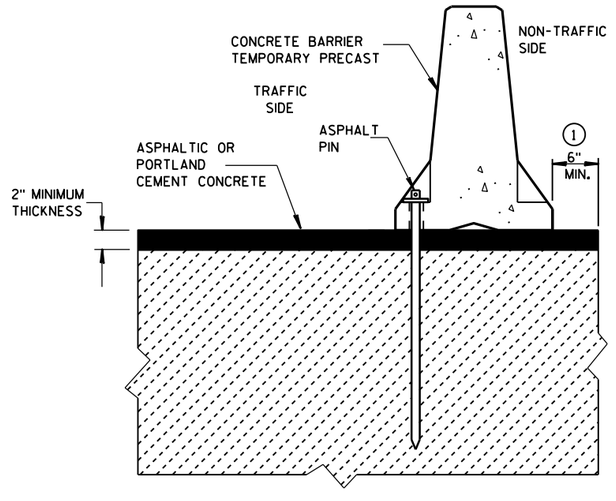
② ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1⅛-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALL ANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CONCRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.

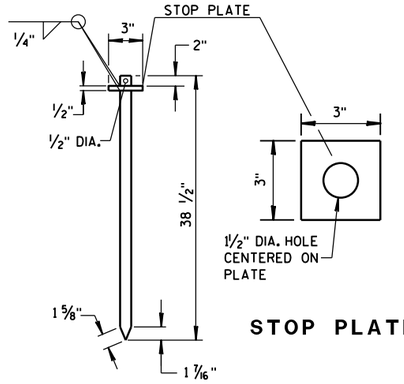
③ 1⅛" DIAMENTER A307 THREADED ROD, ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.

④ ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.



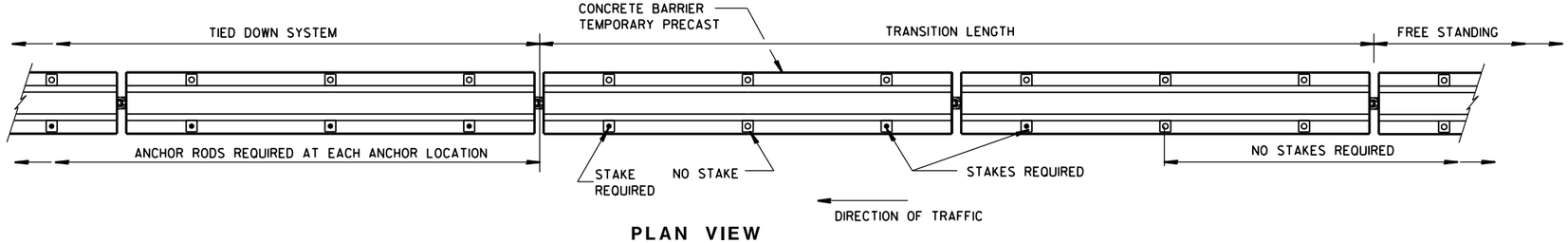
STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



STOP PLATE

ASPHALT PIN
(ASTM A36 STEEL)



PLAN VIEW

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

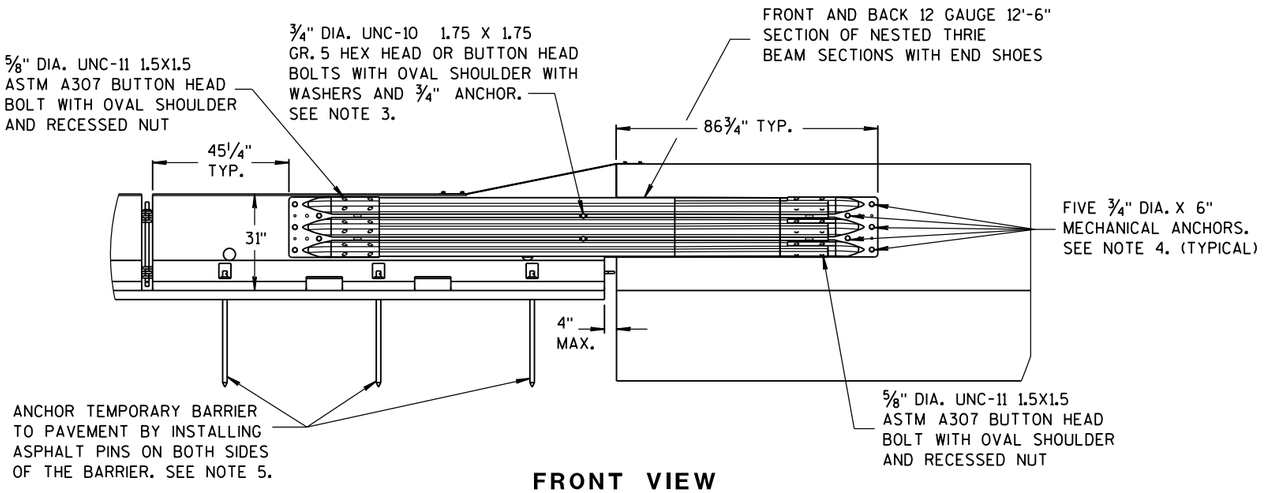
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

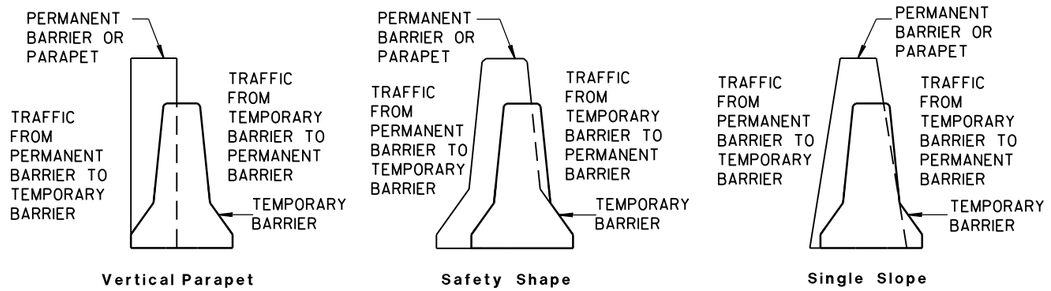
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 7-14d



FRONT VIEW

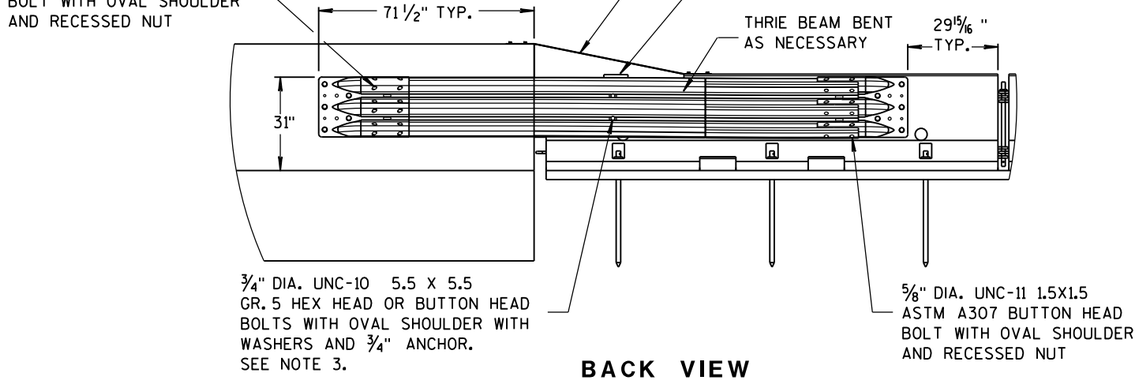


TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

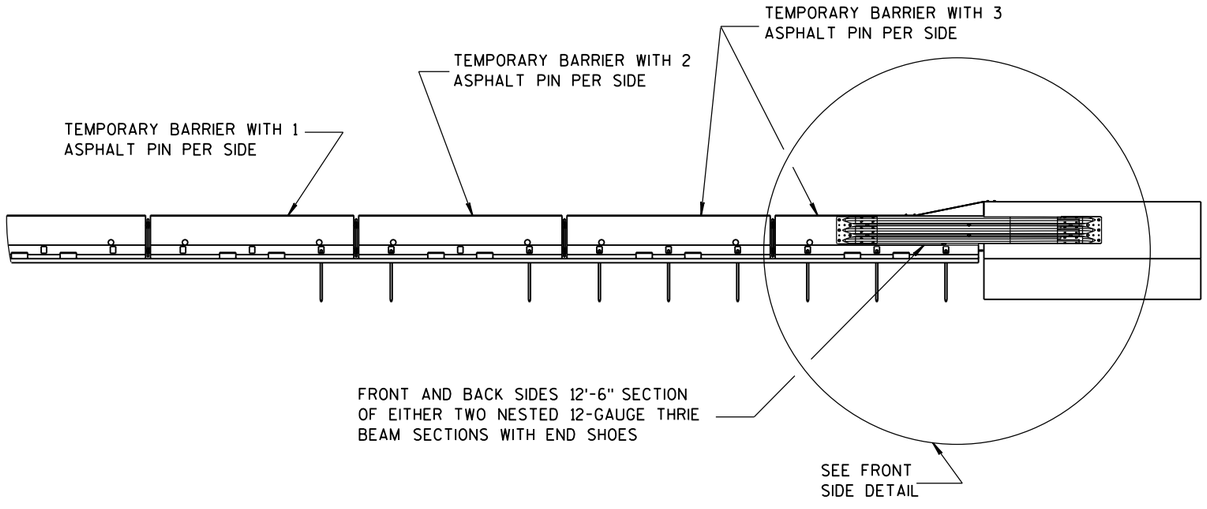
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS.

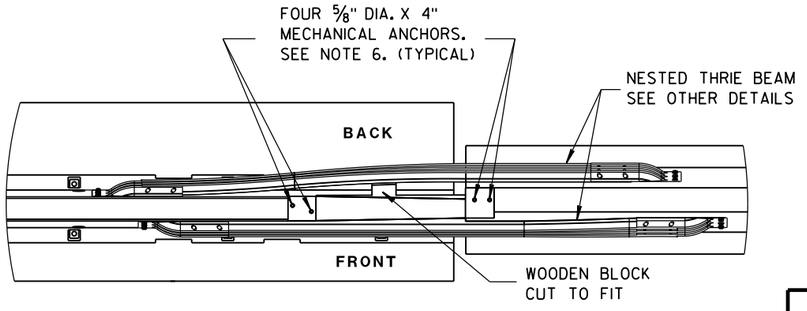
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



BACK VIEW



FRONT VIEW



PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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S.D.D. 14 B 7-14e

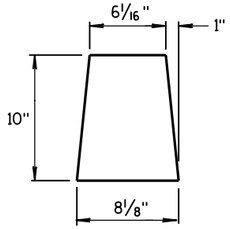
GUSSET 1

GUSSET 2

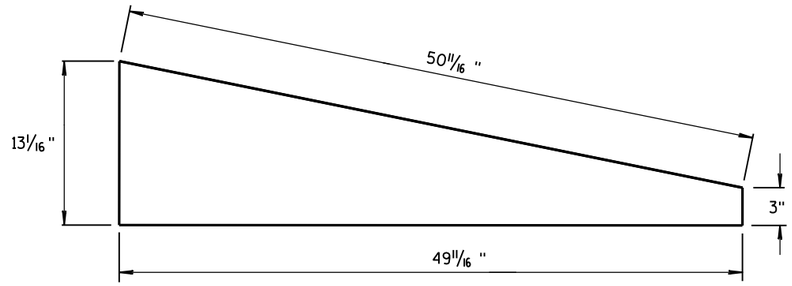
GUSSET 3

GUSSET 4

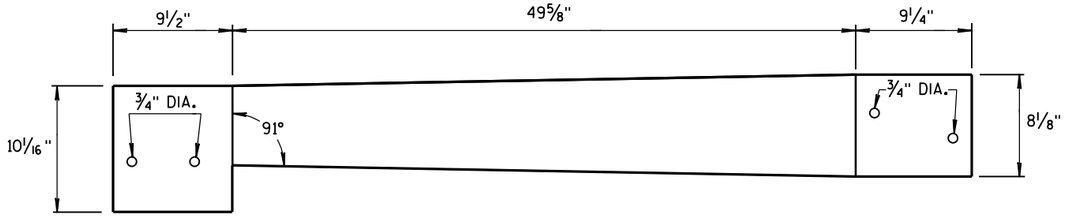
GUSSETS

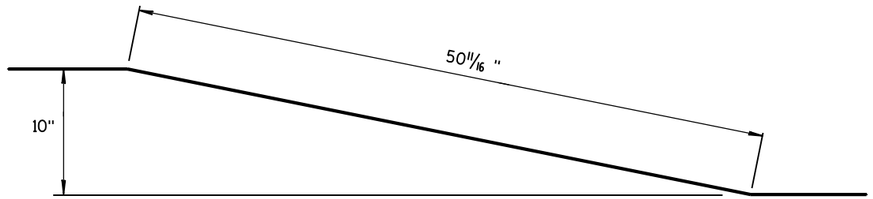


END PLATE

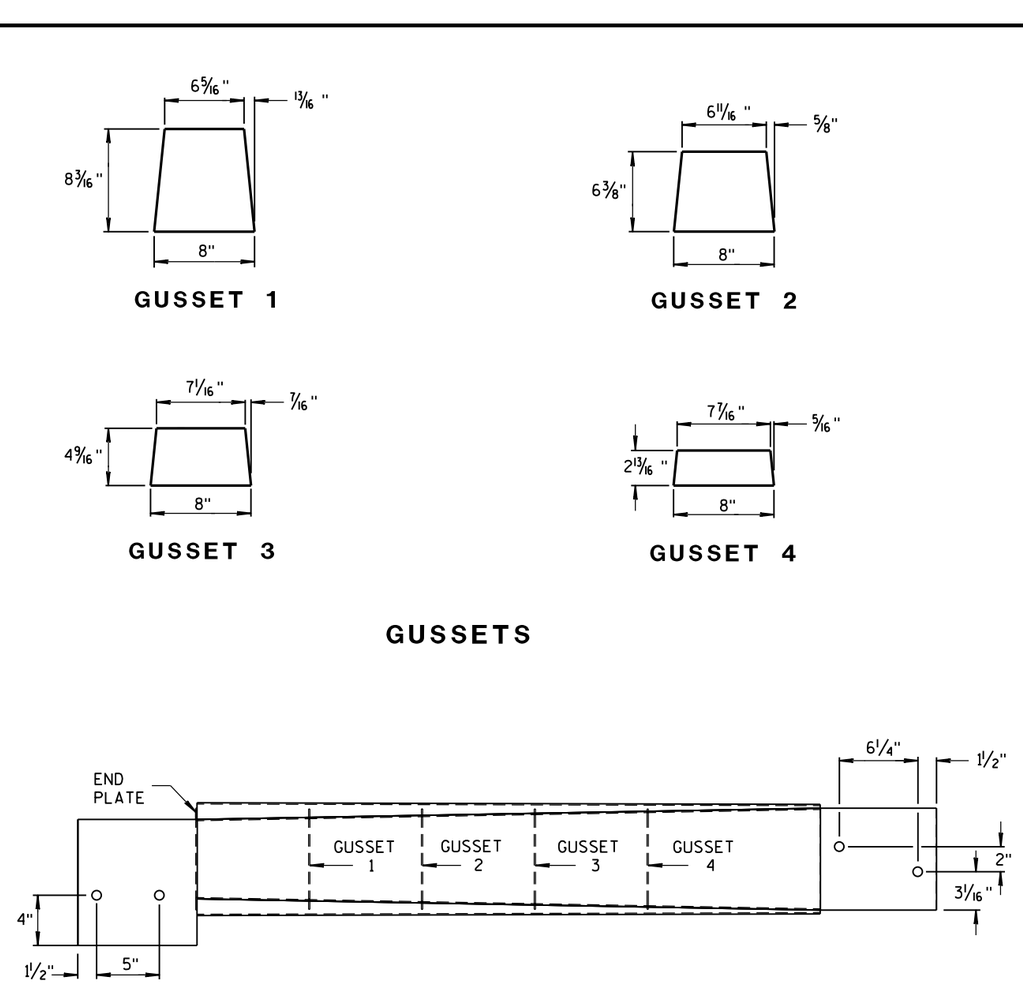


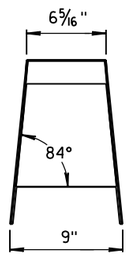
SIDE PLATE





TOP PLATE





SECTION C-C

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.

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.

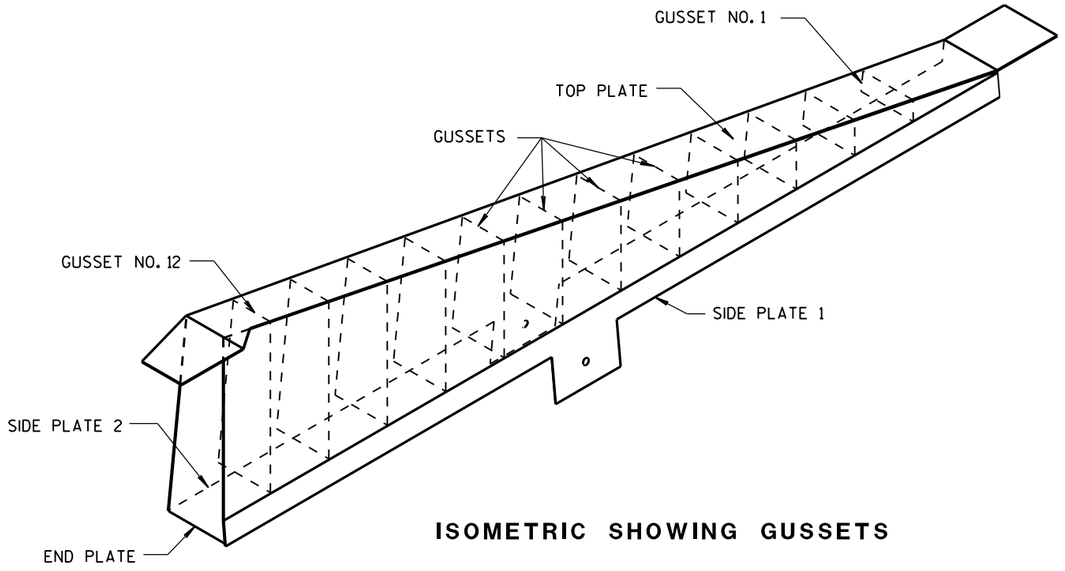
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

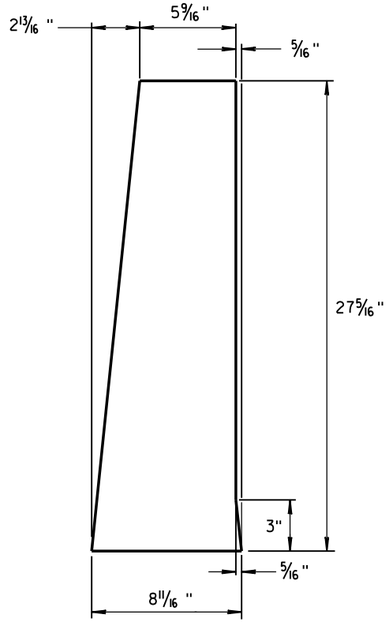
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 7-14f

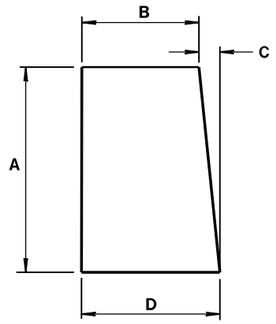


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



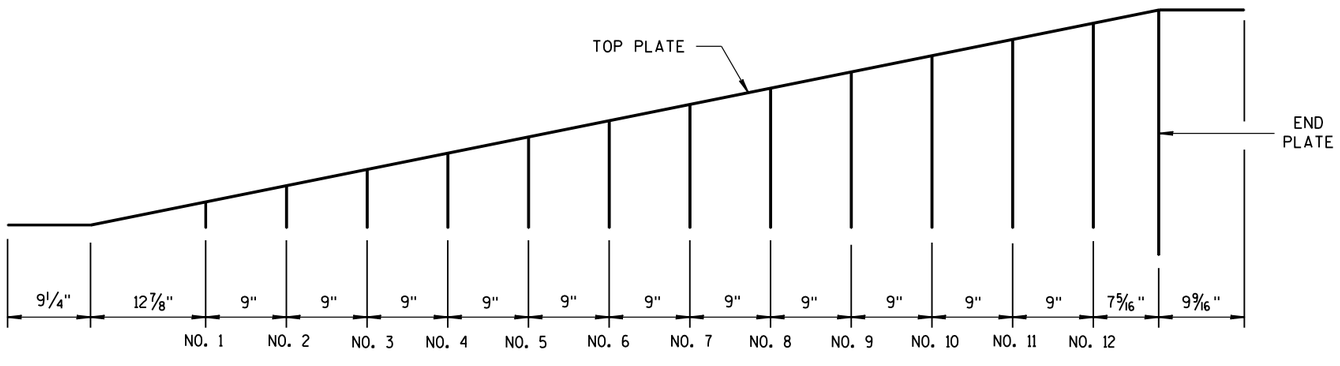
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 14 B 7-14g

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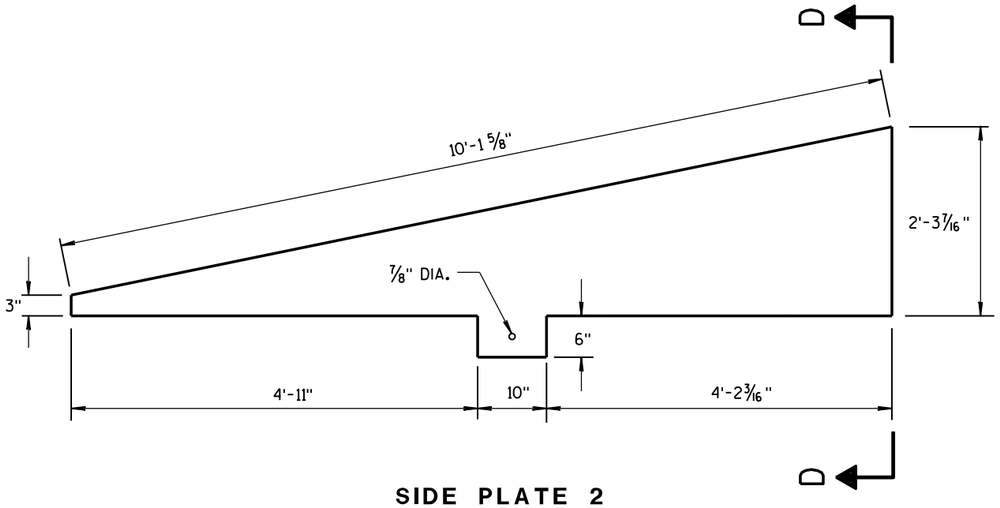
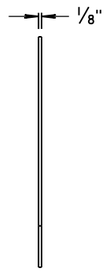
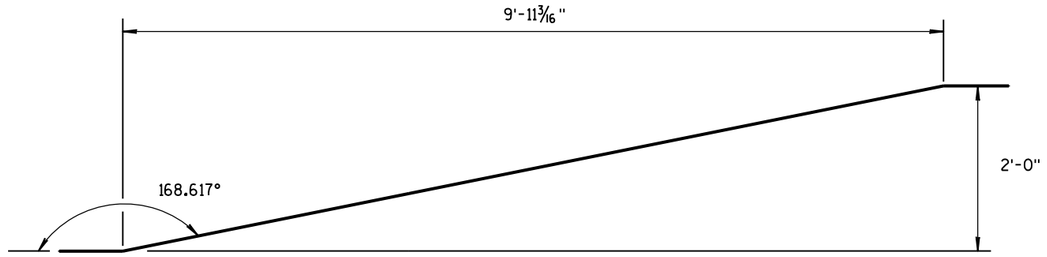
S.D.D. 14 B 7-14g



SIDE PLATE 2

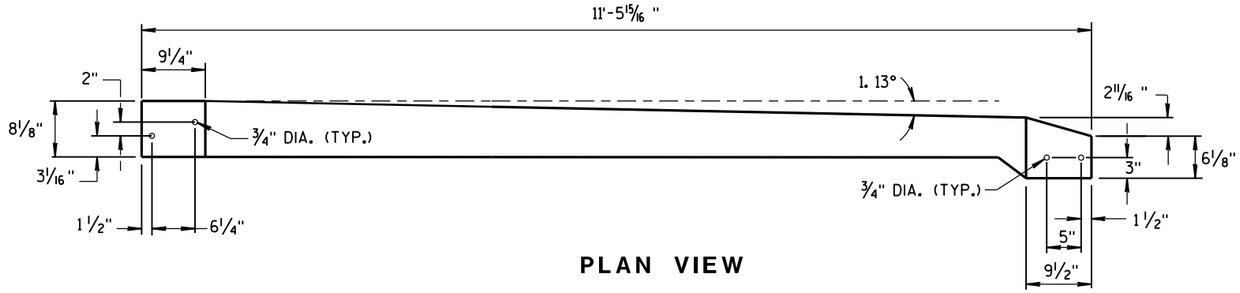


END VIEW



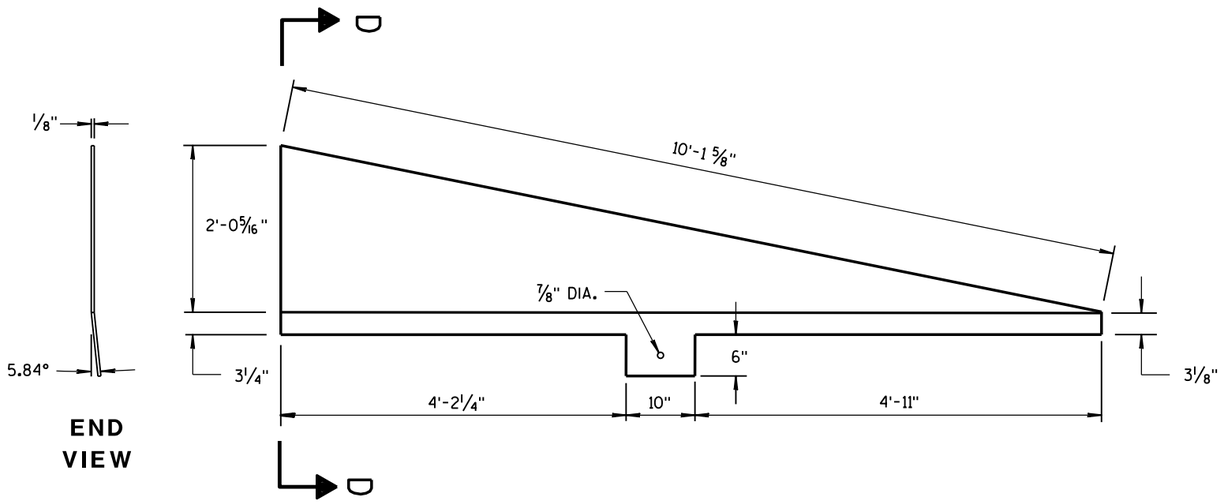
SIDE VIEW

TOP PLATE



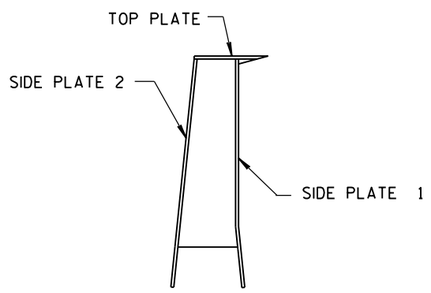
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARD DEVELOPMENT ENGINEER
FHWA

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S.D.D. 14 B 7-14h

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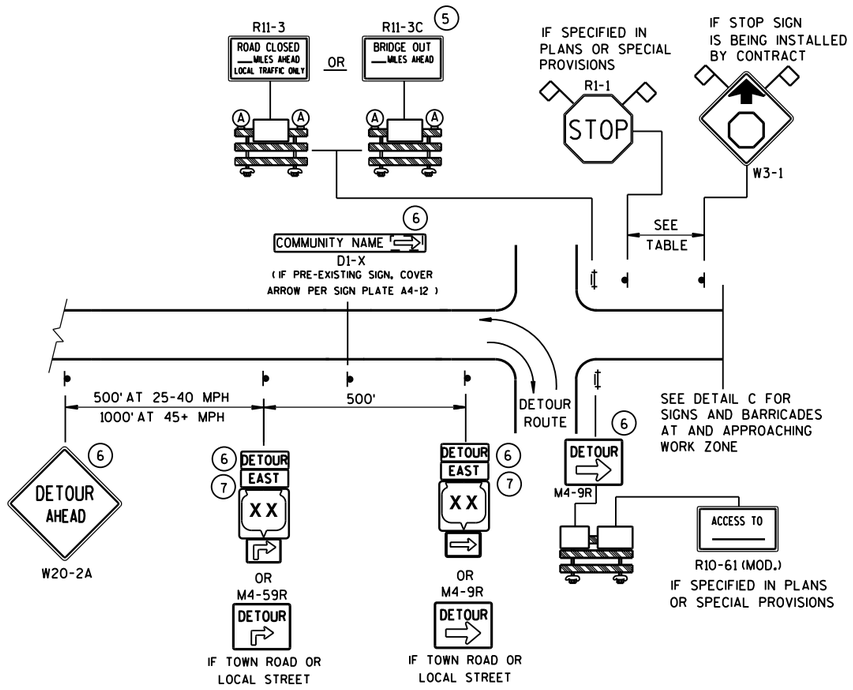
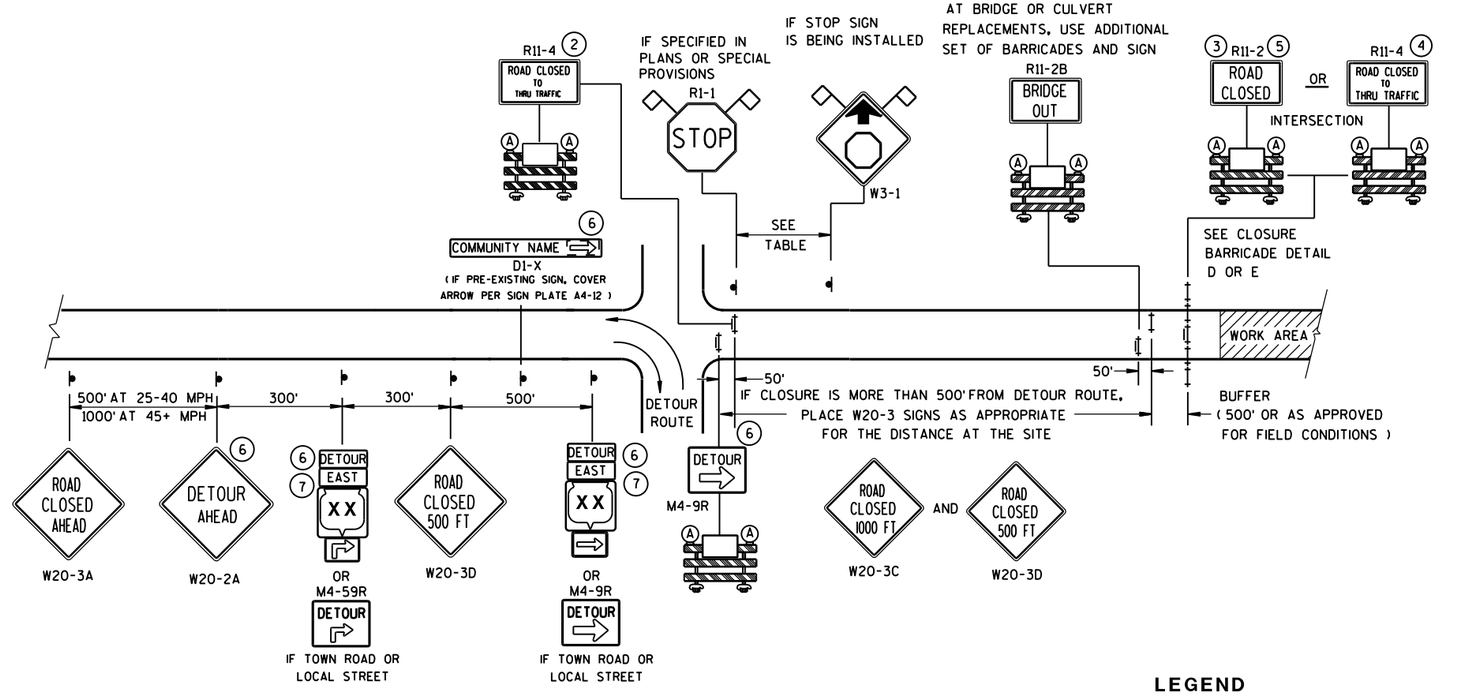
S.D.D. 14 B 7-14h



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

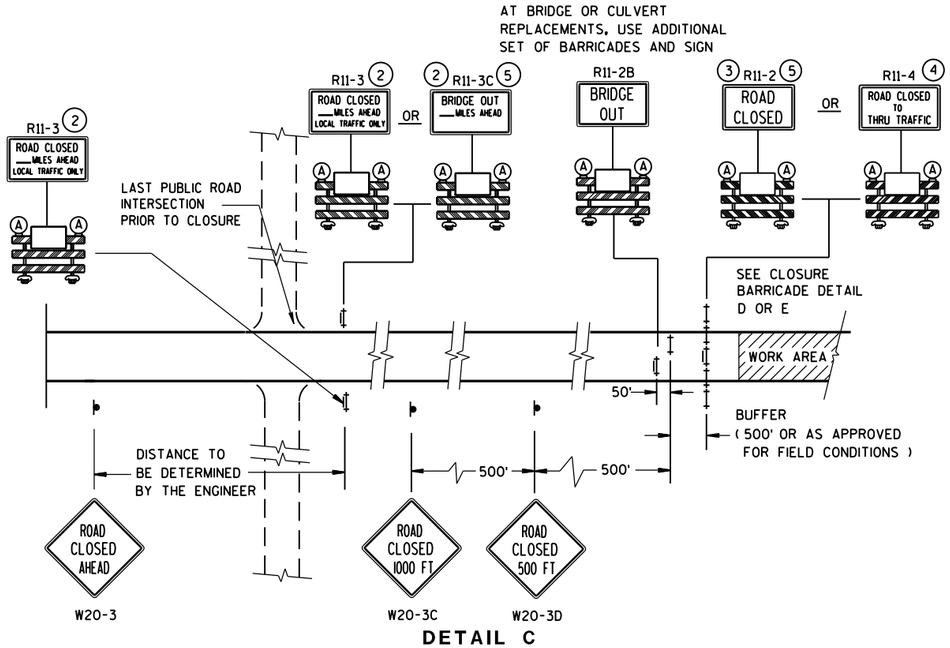
WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C

MAINLINE CLOSURE, NO POSTED DETOUR

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

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
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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S.D.D. 15 C 2-6a

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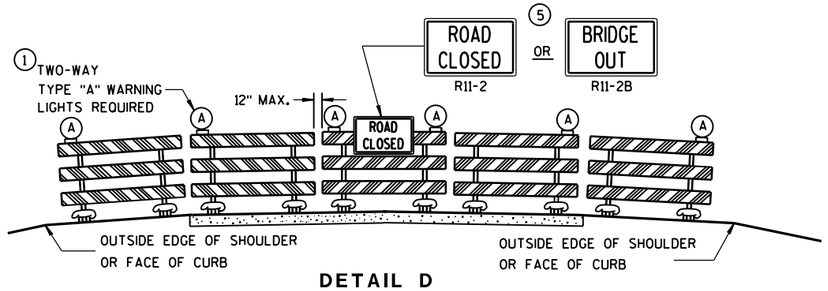
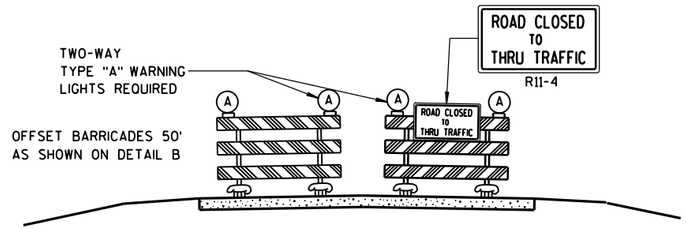
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI — FIC

FHWA

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S.D.D. 15 C 2-6b

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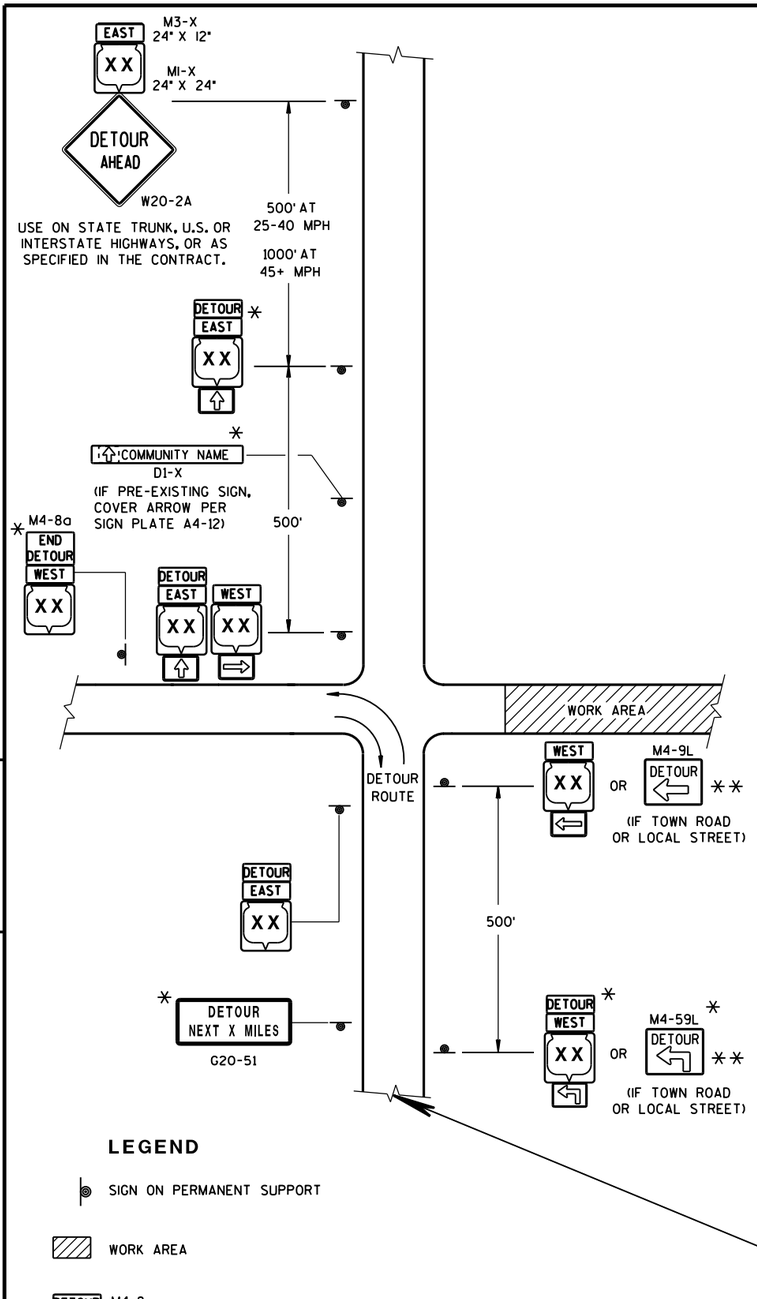
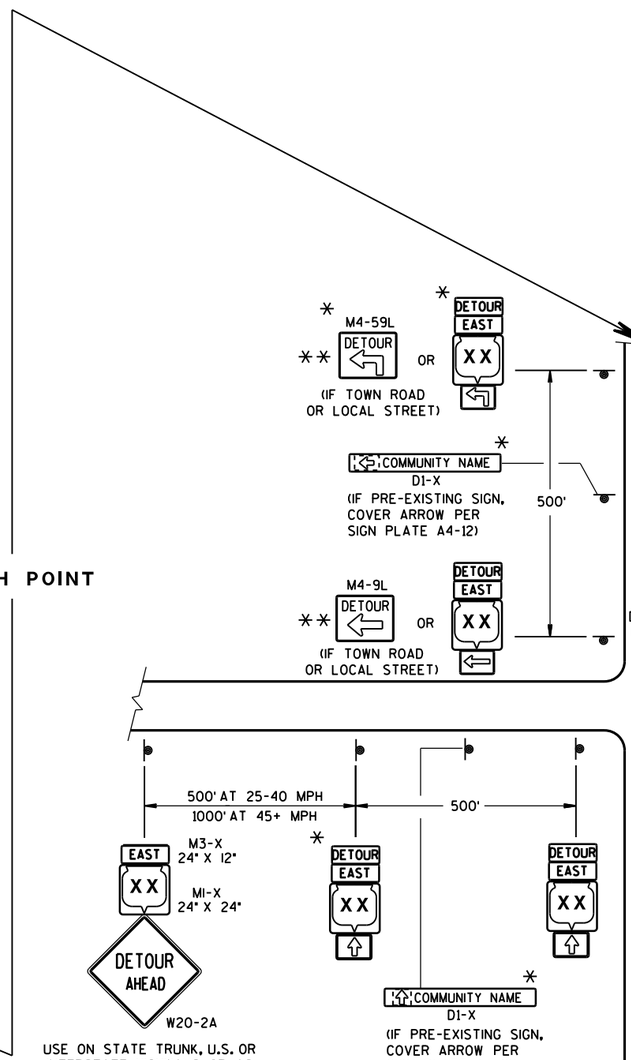
S.D.D. 15 C 2-6b

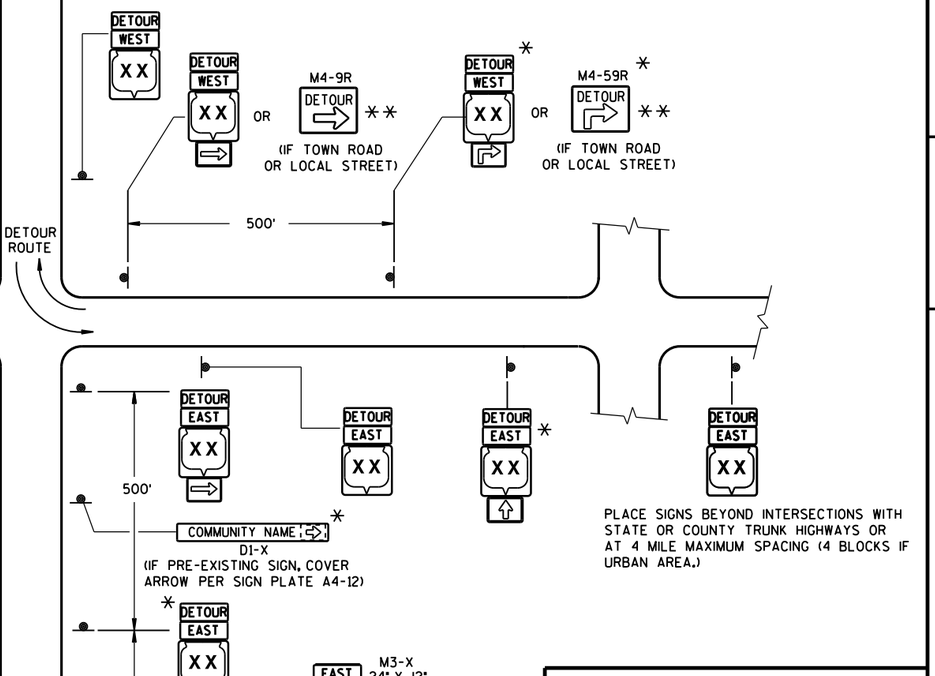


SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD 15C2-SHEET "a"

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

MATCH POINT





GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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

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

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

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI...

FHWA

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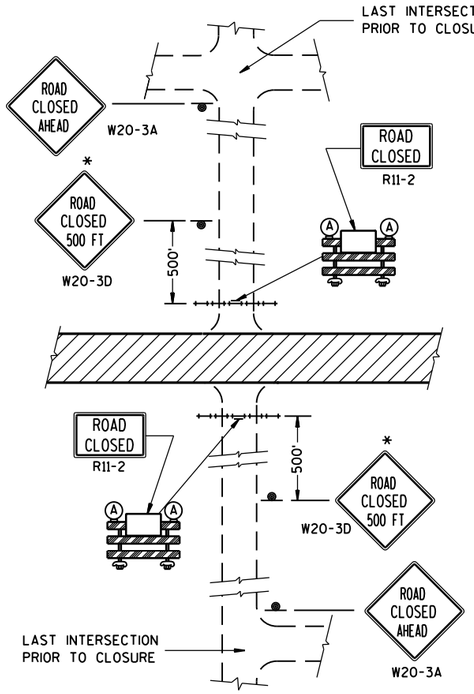
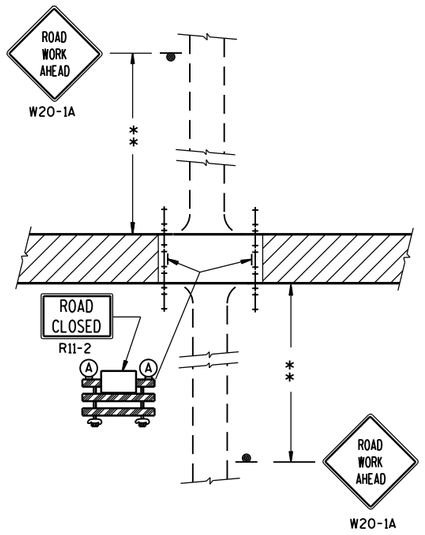
S.D.D. 15 C 2-6c



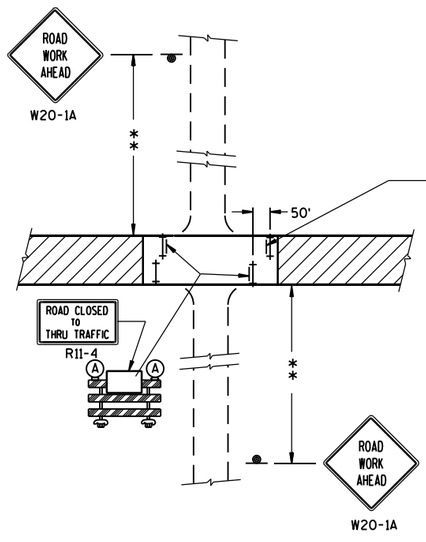
DETAIL 1

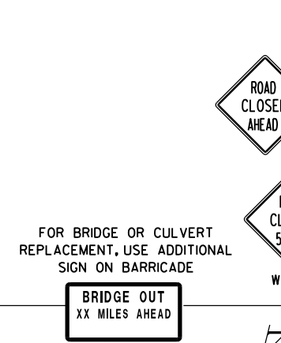
(NO ACCESS TO PROJECT)



DETAIL 2

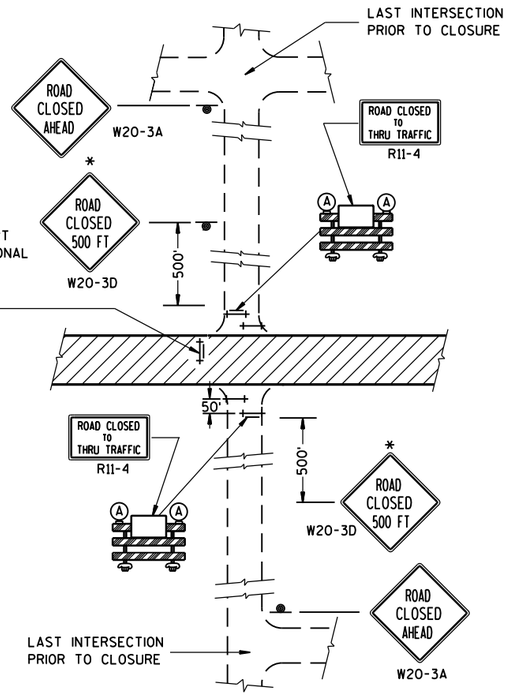
(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).





DETAIL 3

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



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

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

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

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

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

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

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

LEGEND

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

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible]FIC SAFETY ENGI[illegible]
FHWA

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S.D.D. 15 C 3-3

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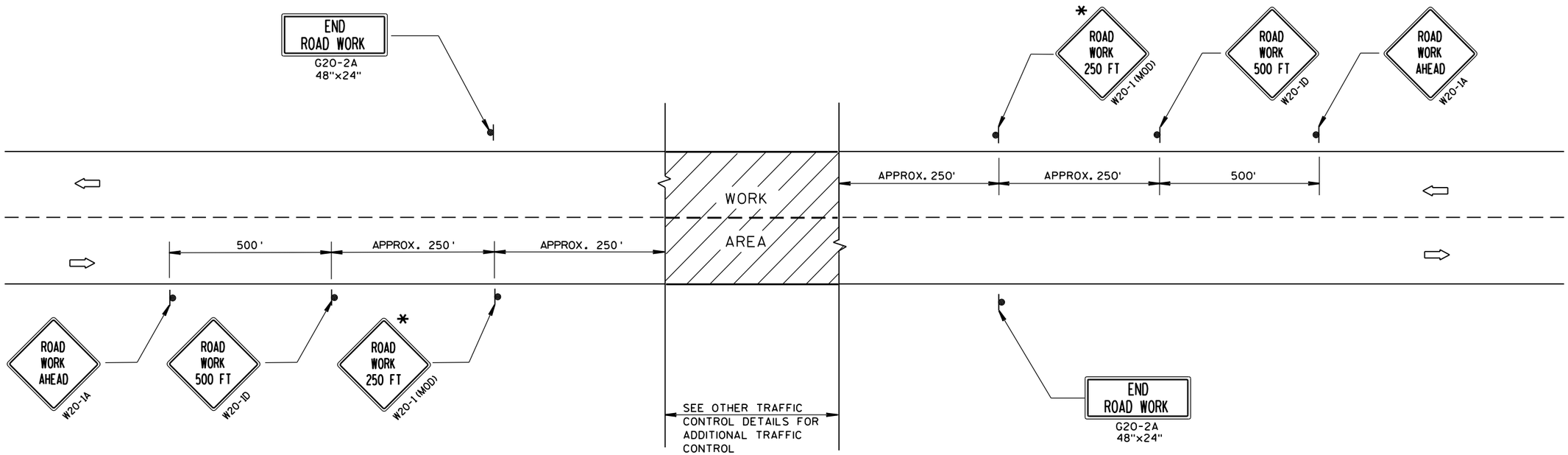
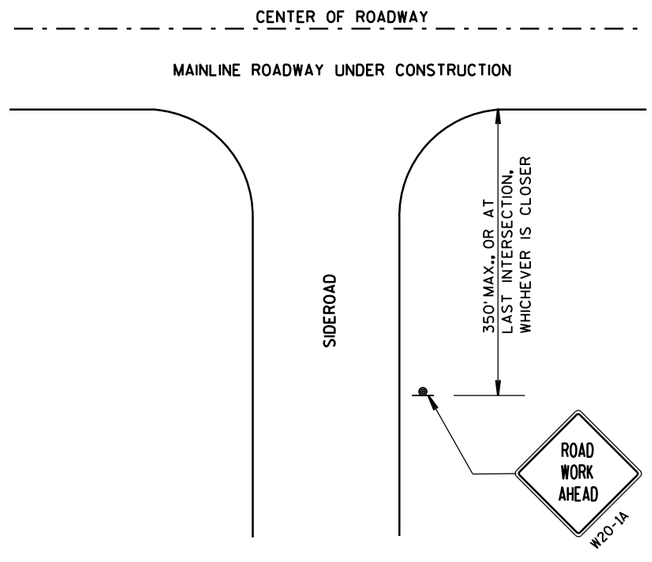
S.D.D. 15 C 3-3



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

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

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

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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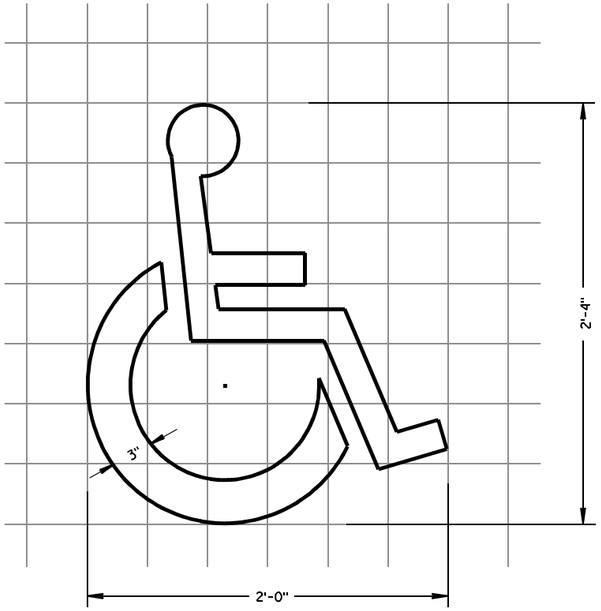
S.D.D. 15 C 5-3

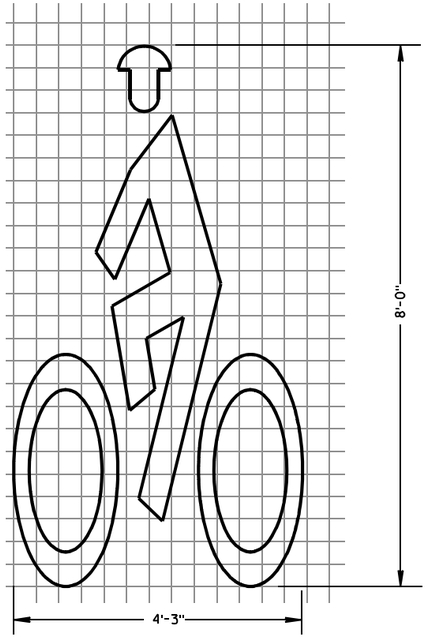
GENERAL NOTES

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

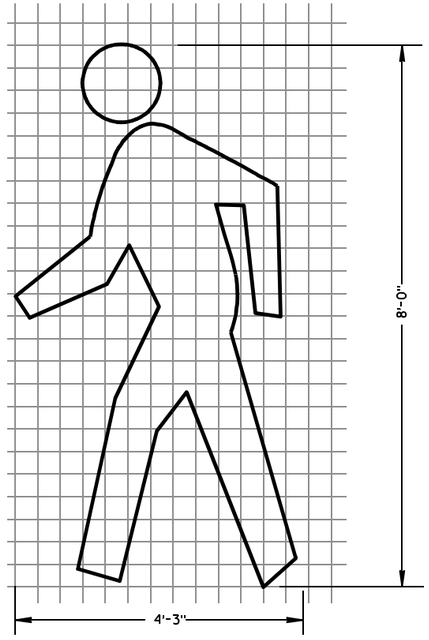
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.

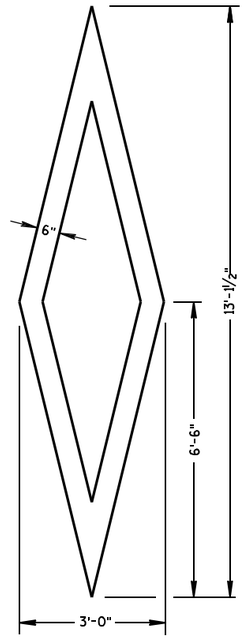




BIKE CROSSING SYMBOL



PEDESTRIAN SYMBOL



PREFERENTIAL LANE SYMBOL

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 DATE

/S/ Thomas N Nathan STATE TRAFFIC ENGINEER

FHWA

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S.D.D. 15 C 7-12a

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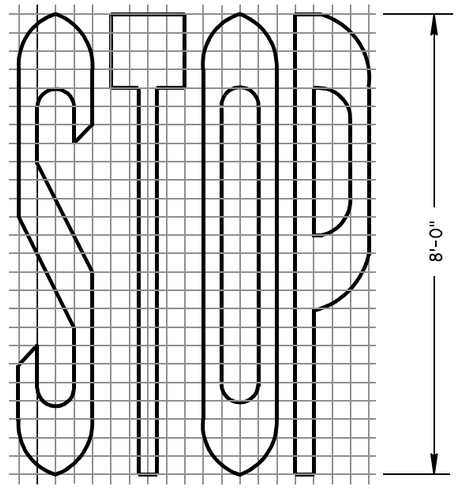
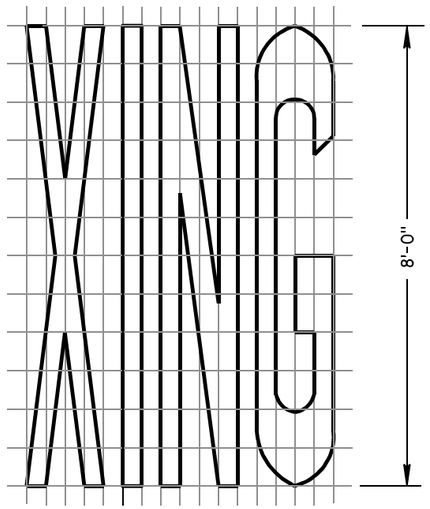
S.D.D. 15 C 7-12a

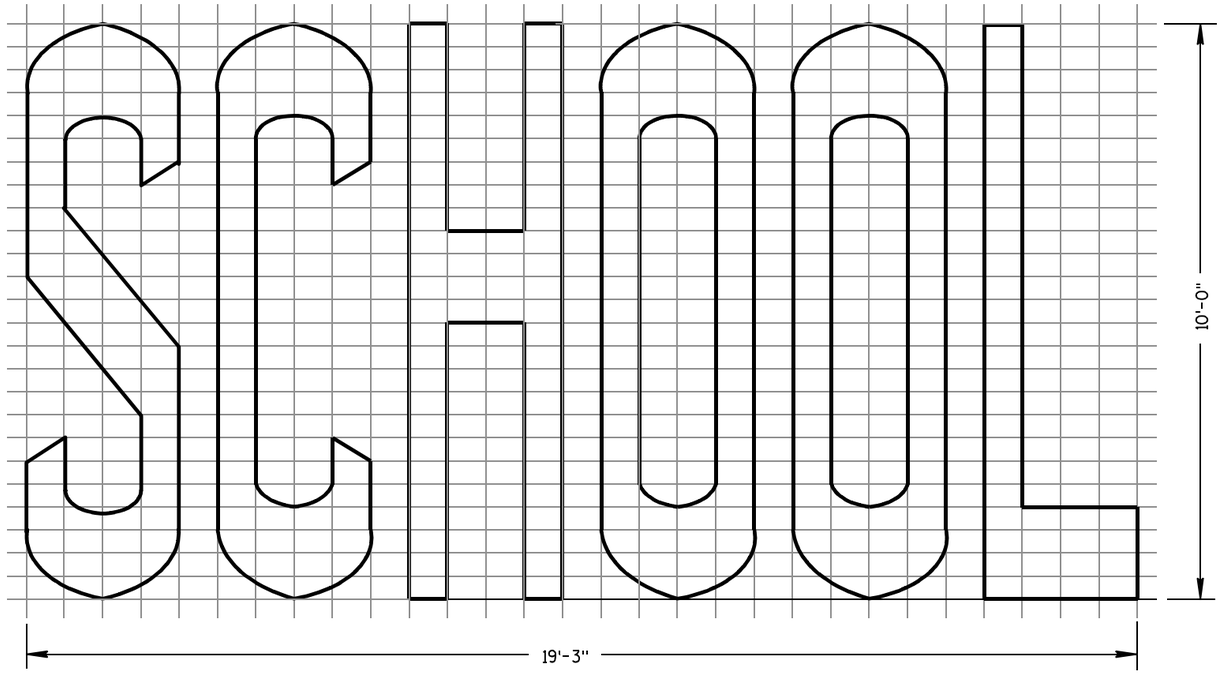
GENERAL NOTES

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.

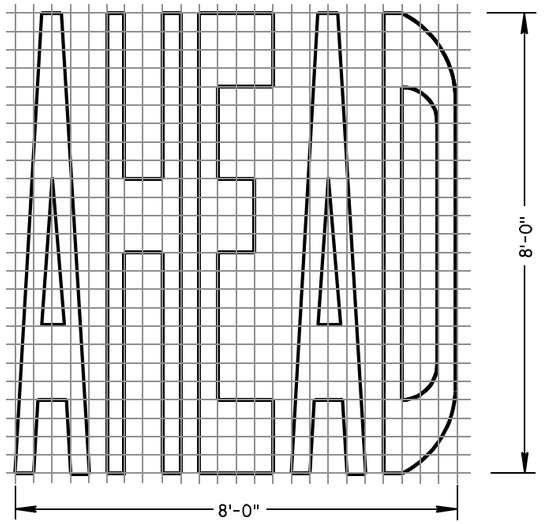
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

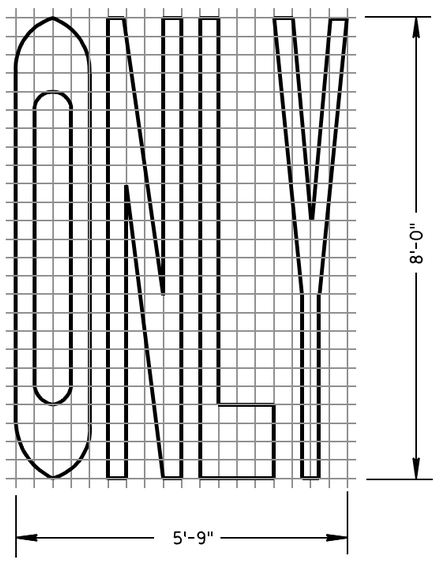


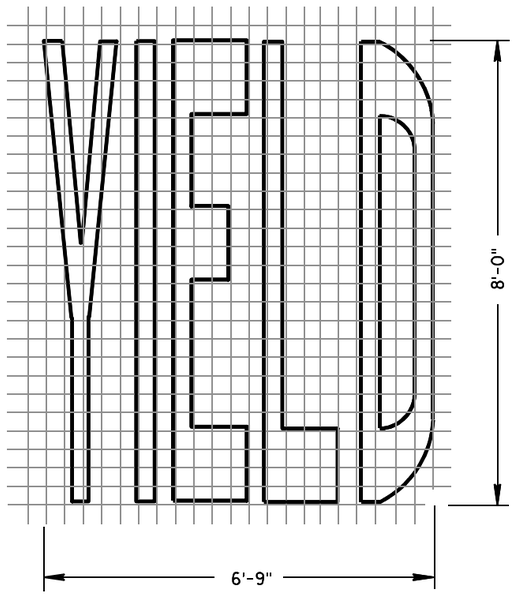


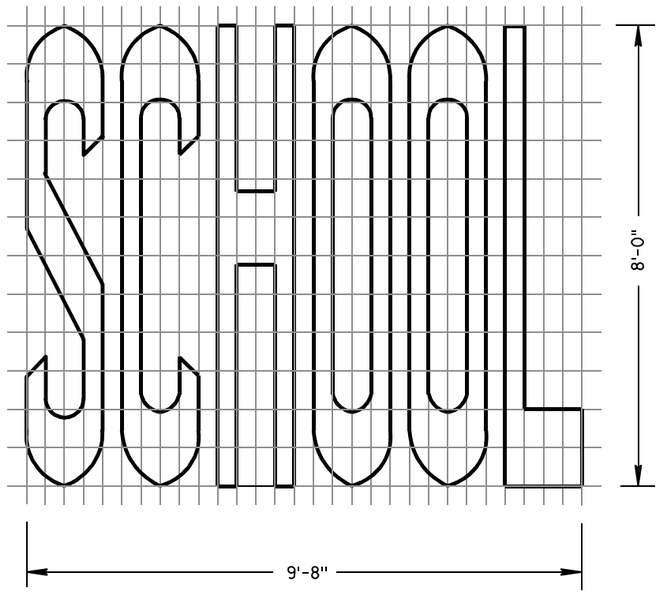


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER

FHWA

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S.D.D. 15 C 7-12b

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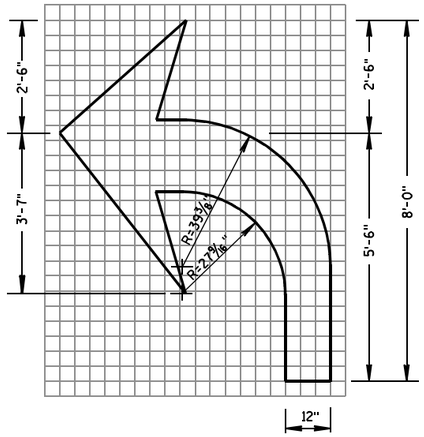
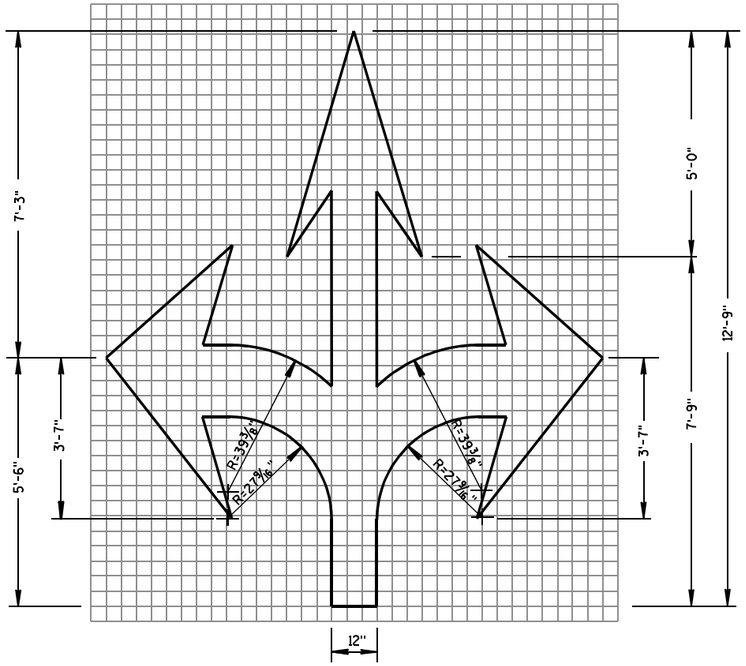
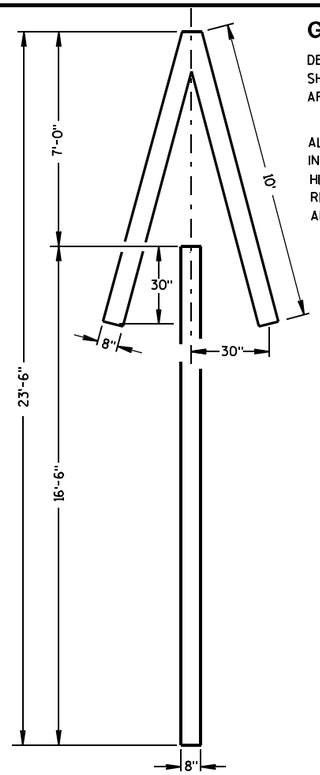
S.D.D. 15 C 7-12b



TYPE 2



TYPE 6

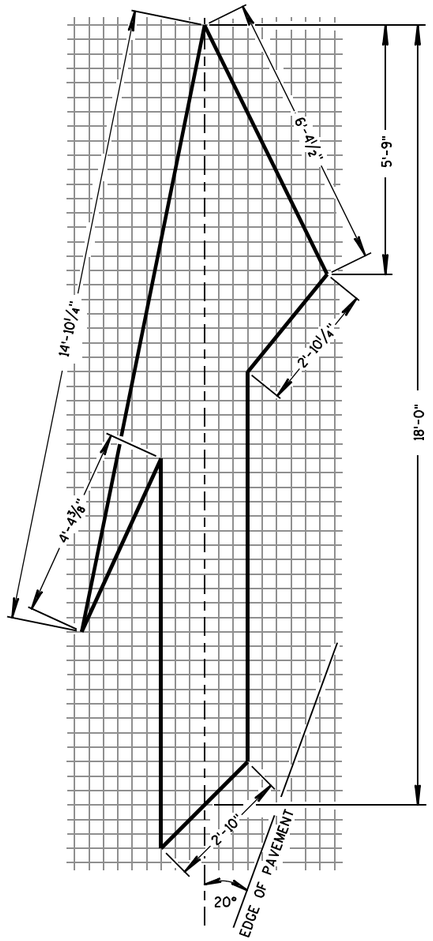


TYPE 4

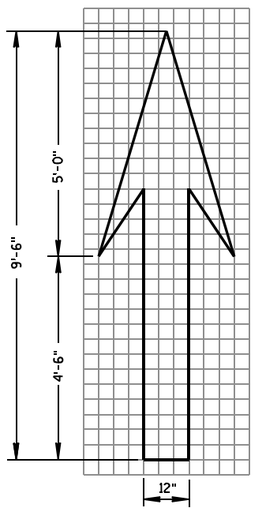
GENERAL NOTES

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.

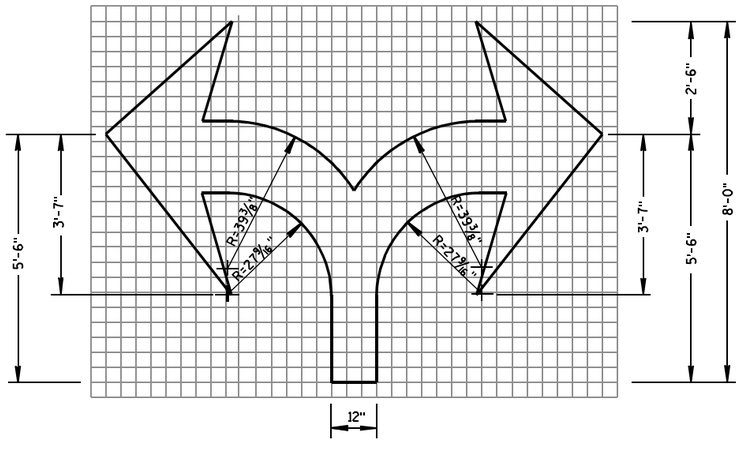
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



TYPE 5 LANE DROP ARROW



TYPE 1



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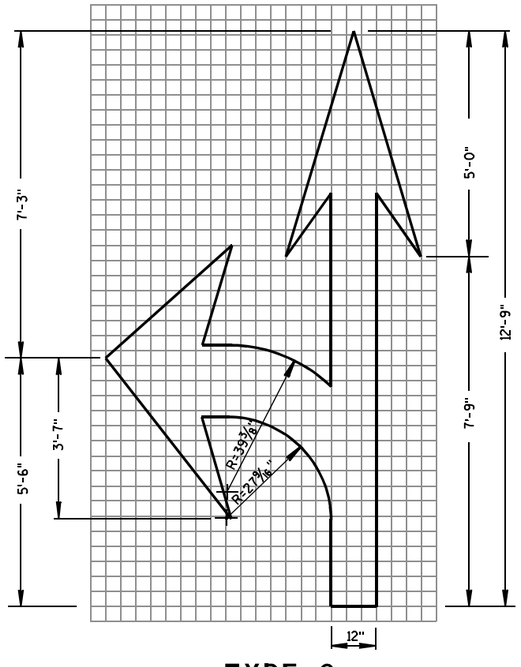

TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

FHWA

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S.D.D. 15 C 7-12c

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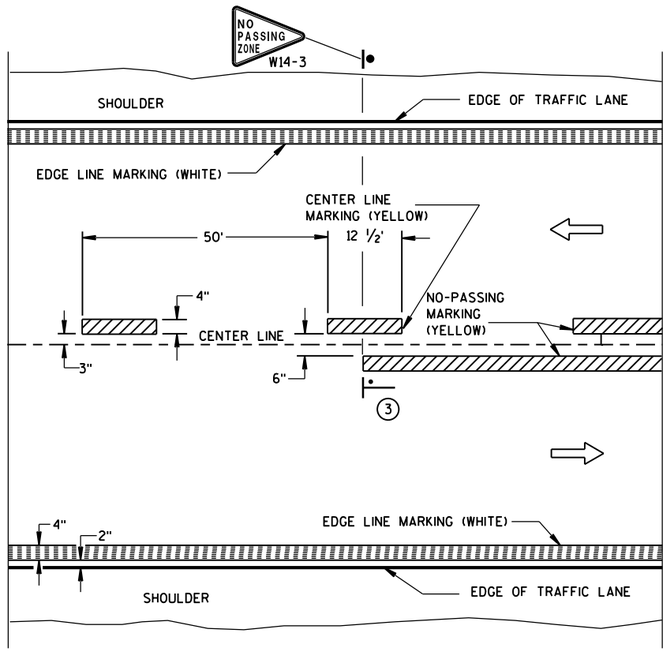
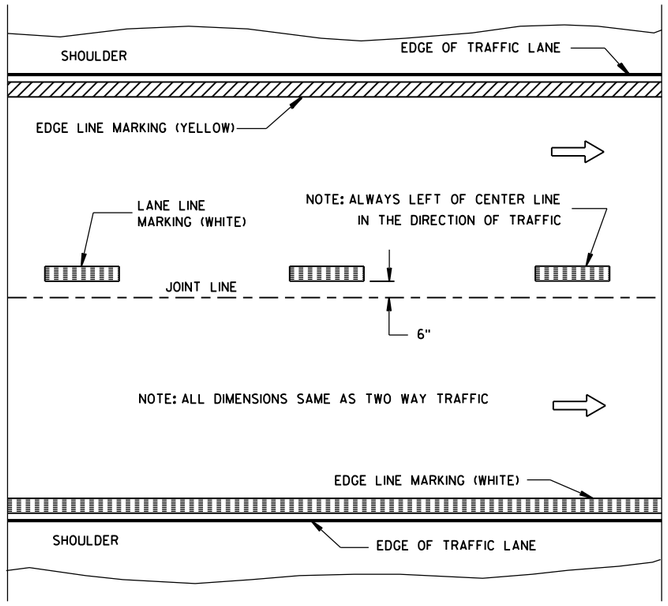
S.D.D. 15 C 7-12c

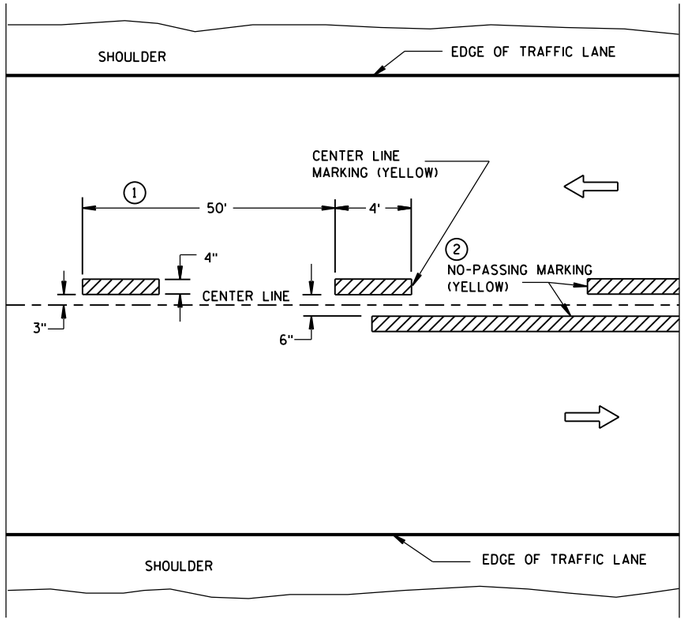


TWO WAY TRAFFIC

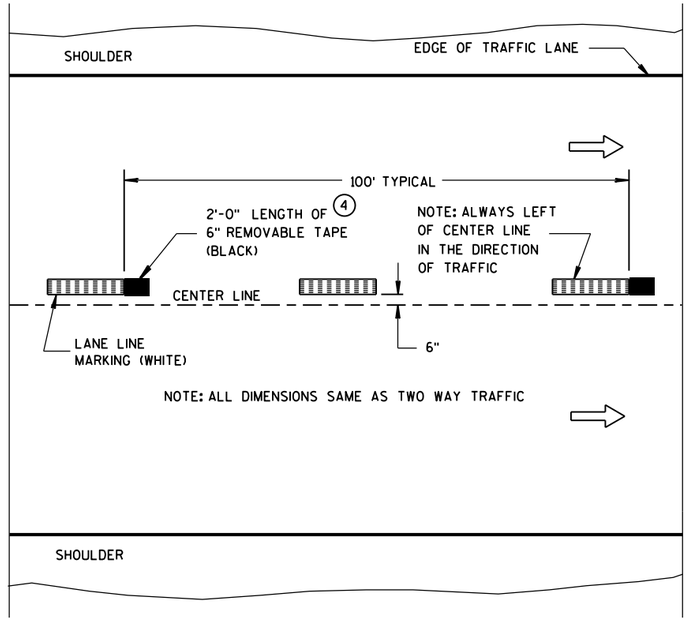


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

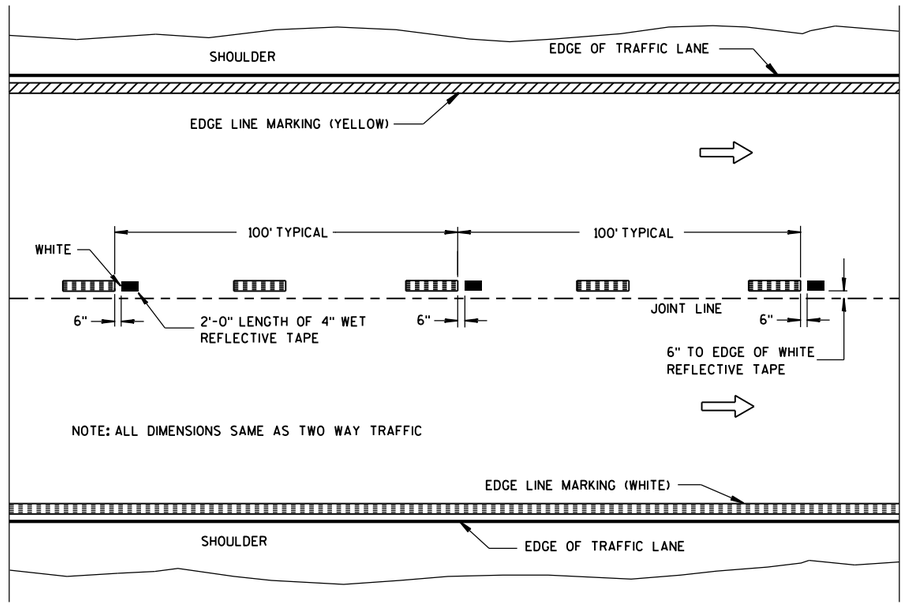
GENERAL NOTES

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

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-13-2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC E

FHWA

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S.D.D. 15 C 8-16a

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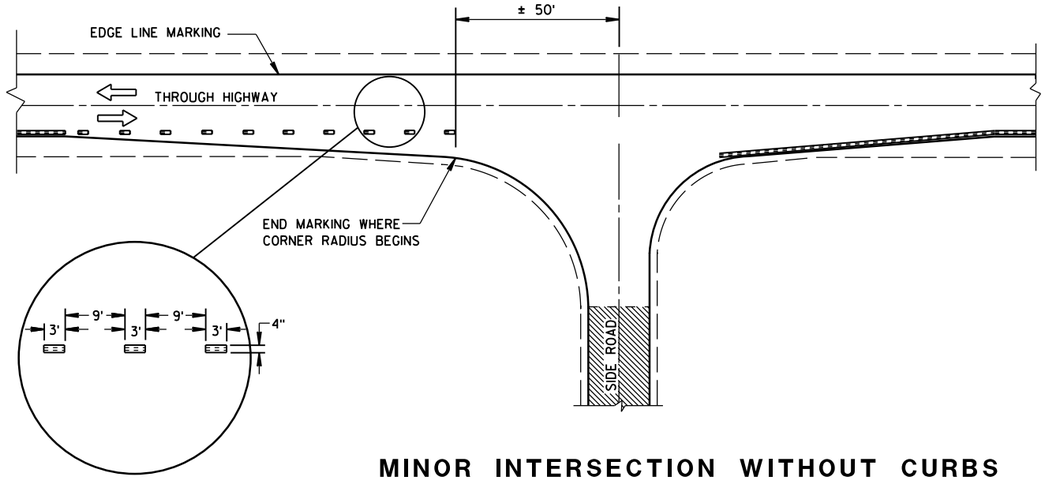
S.D.D. 15 C 8-16a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

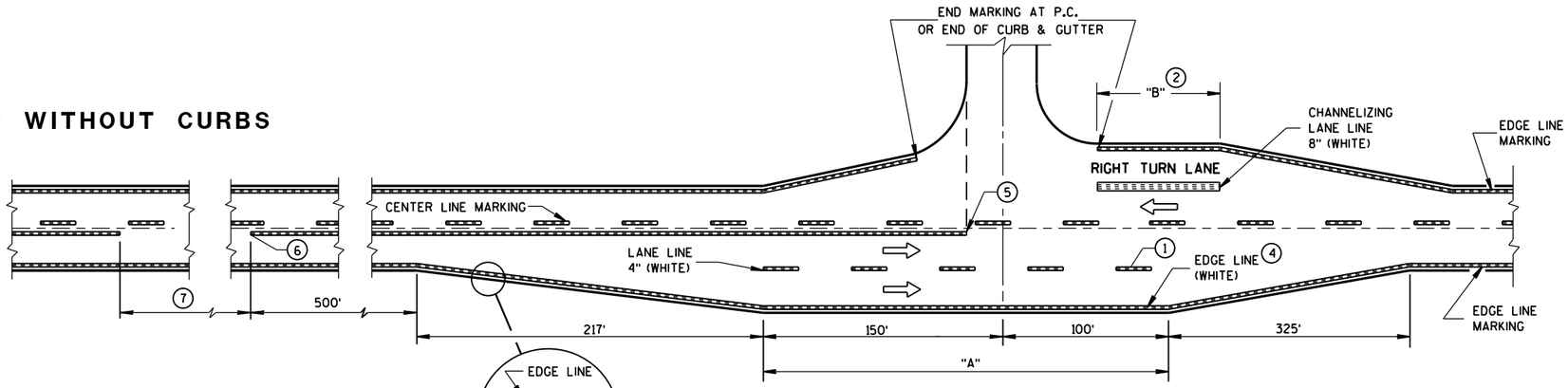
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

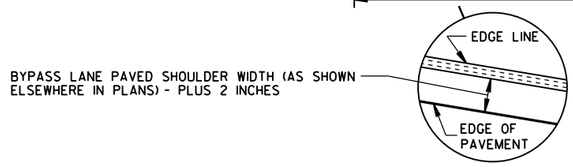
(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

(7)

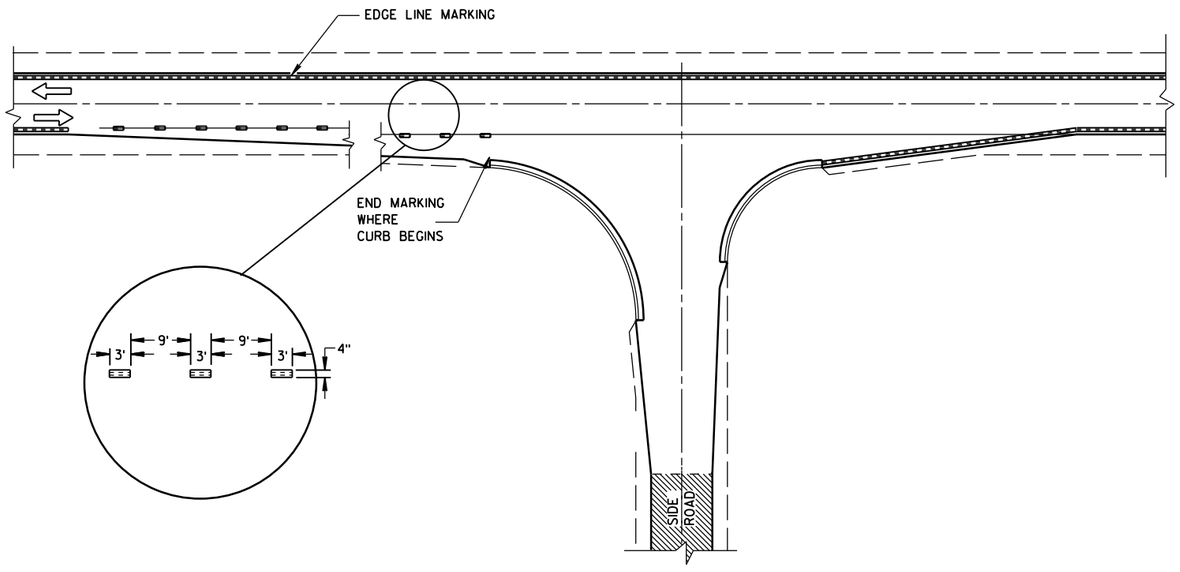
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792





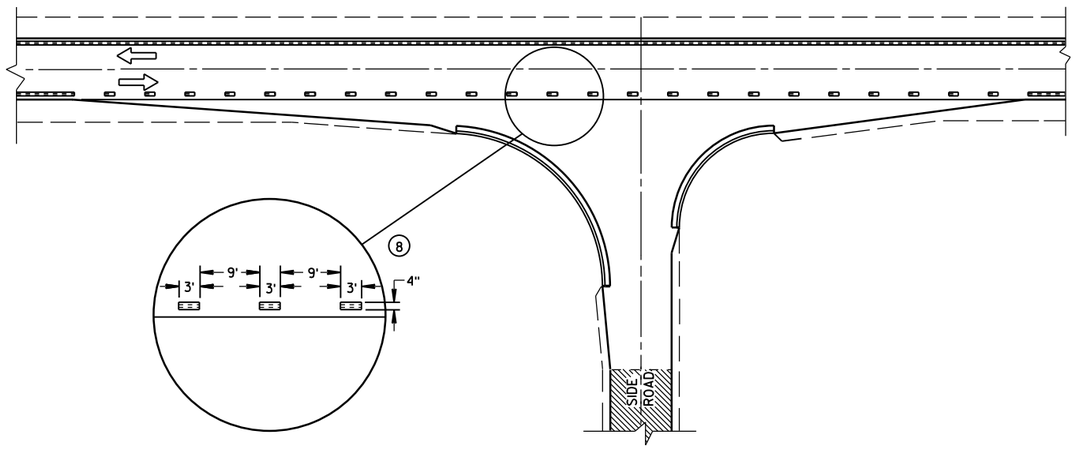
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

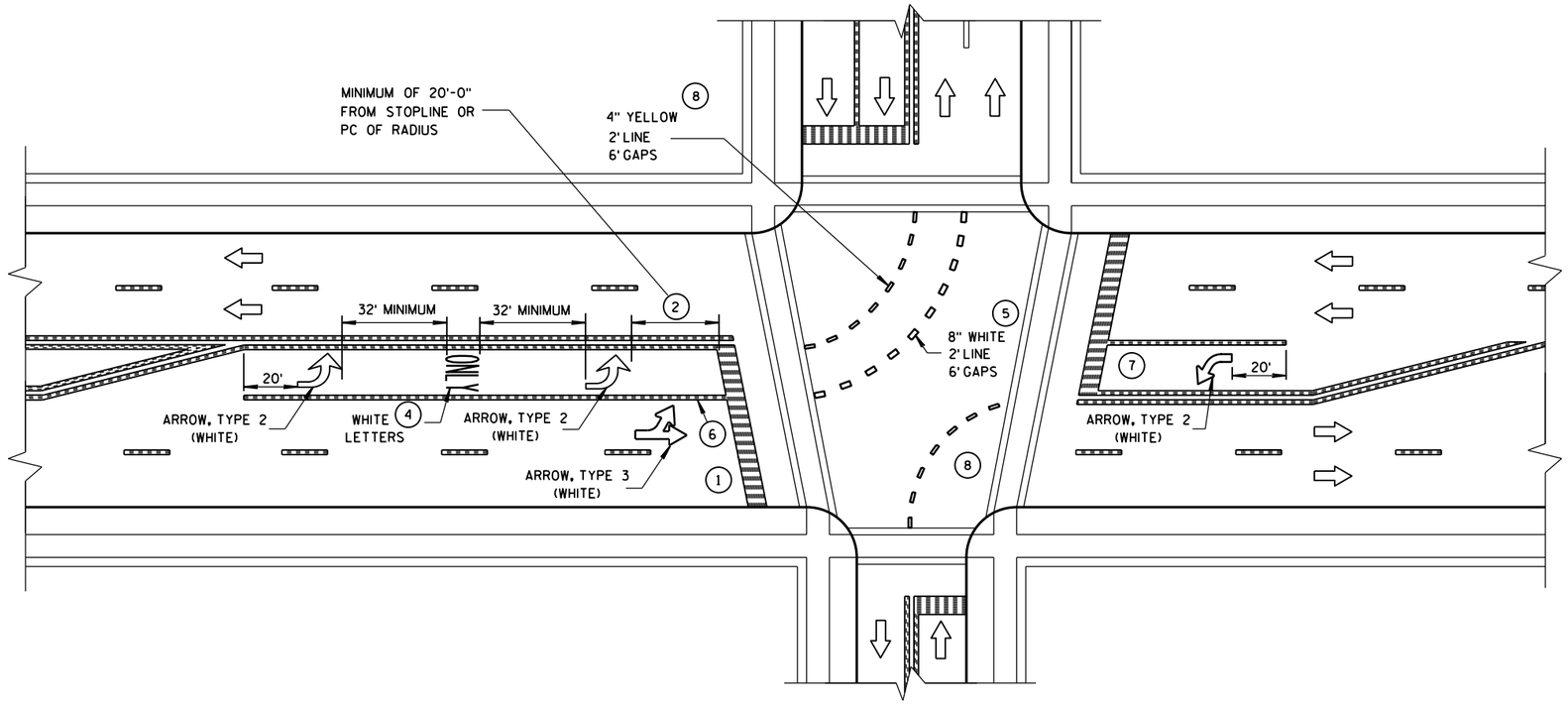
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 220

6

S.D.D. 15 C 8-16b

6

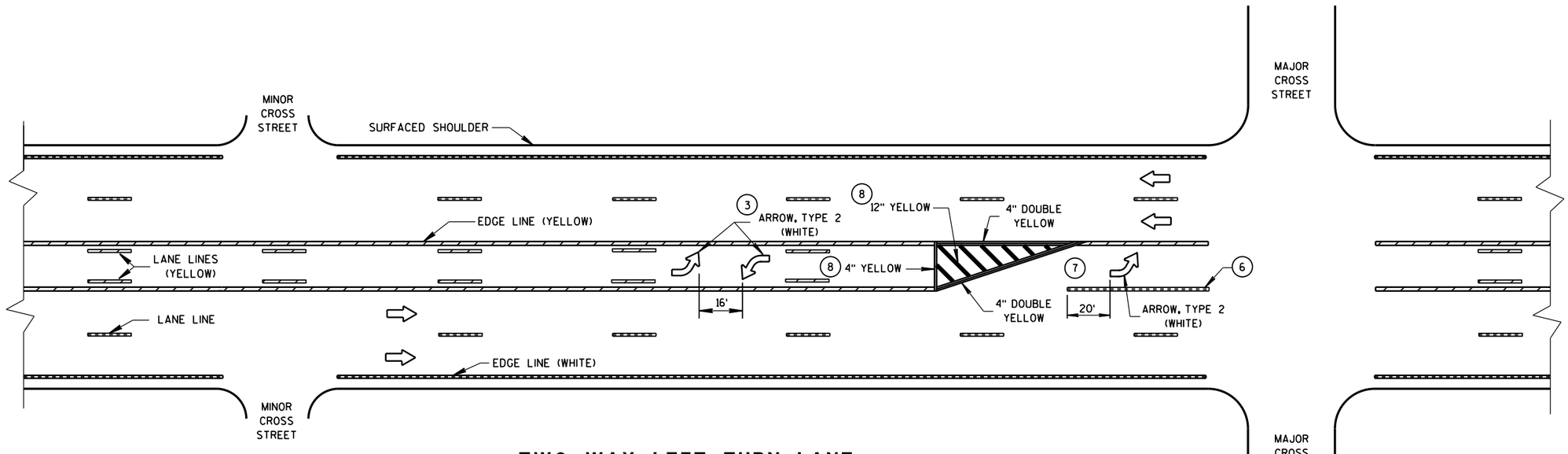
S.D.D. 15 C 8-16b



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 15 C 8-16e

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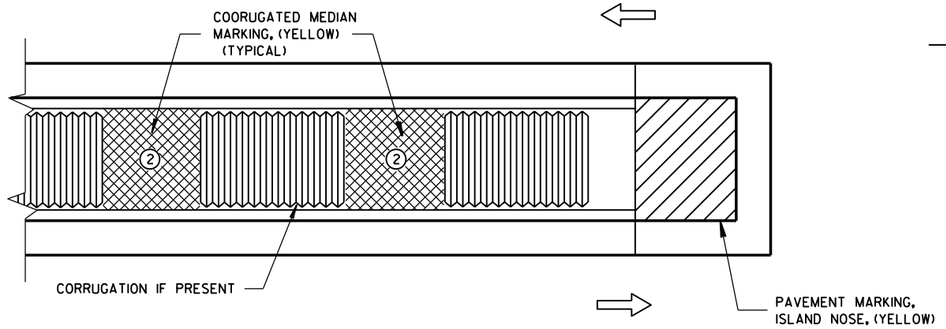
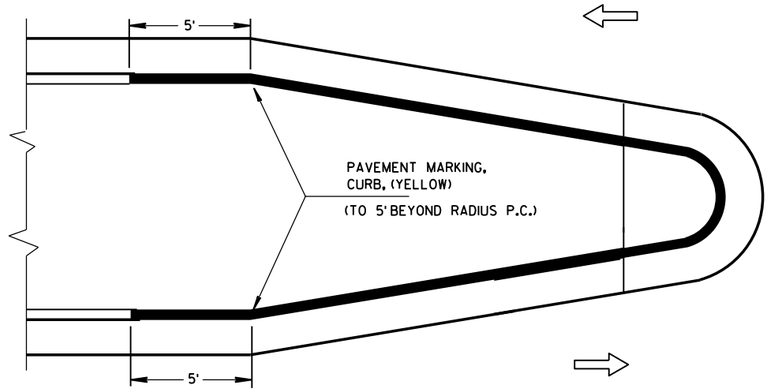
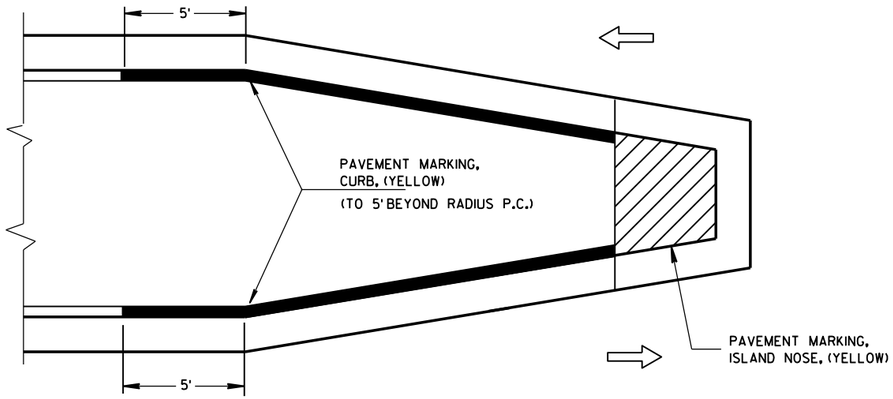
S.D.D. 15 C 8-16e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

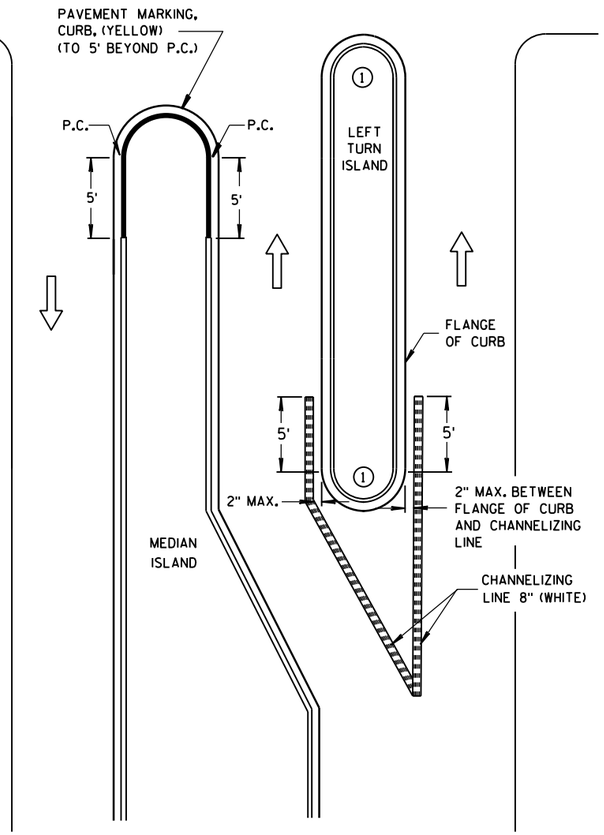


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

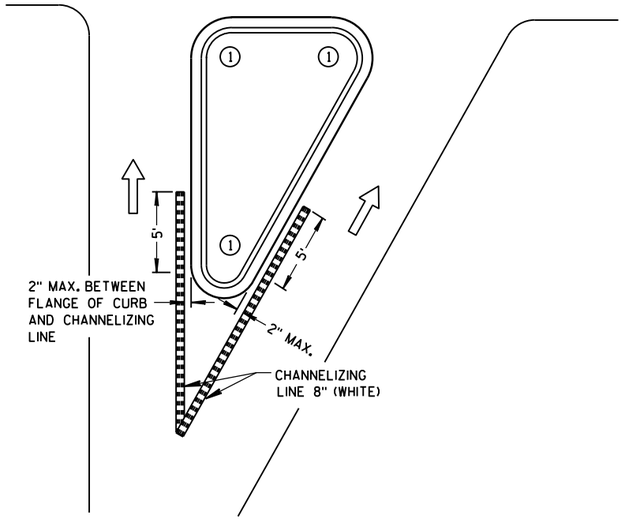


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 C 8-16f

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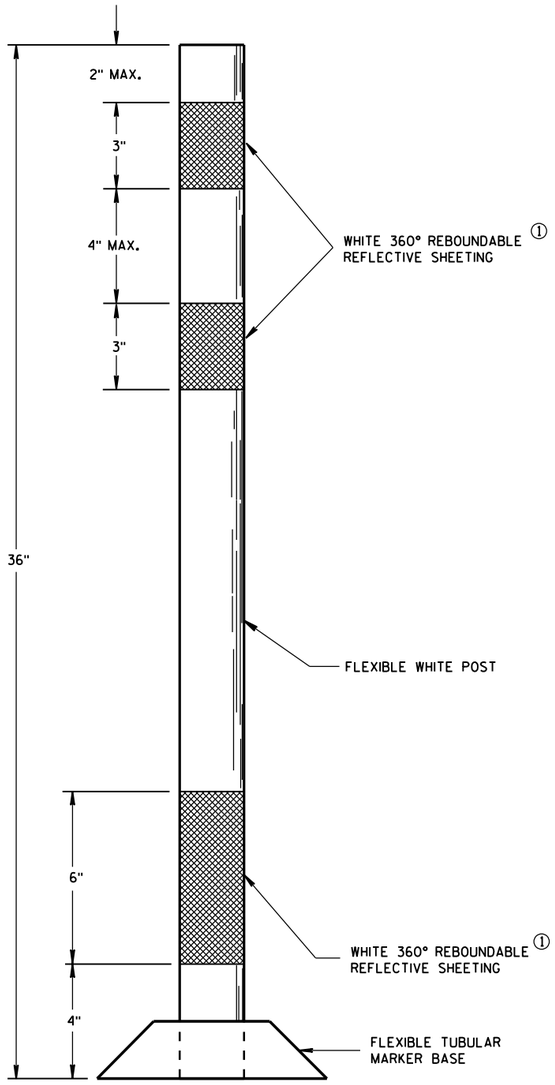
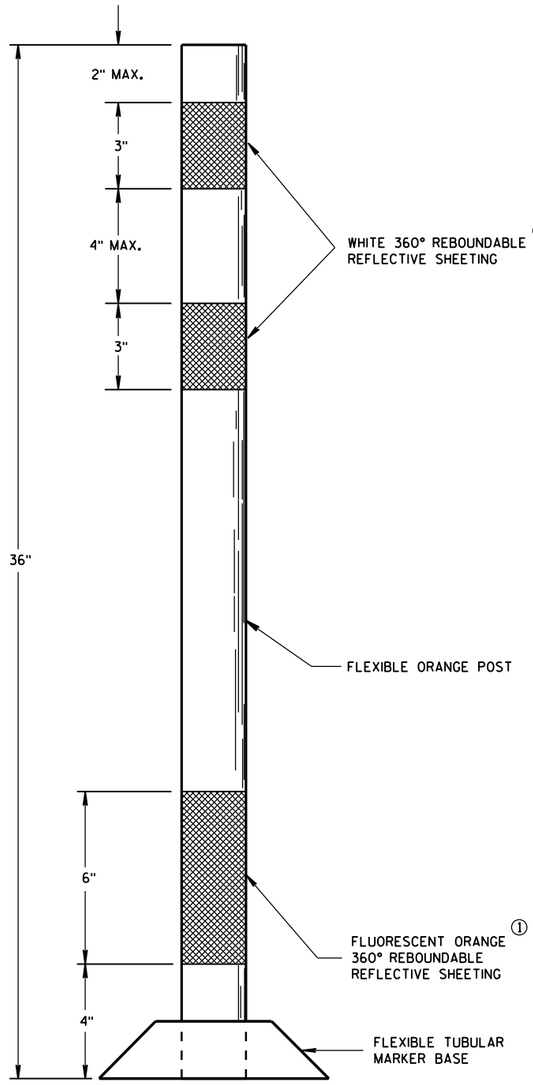
S.D.D. 15 C 8-16f



FLEXIBLE
TUBULAR MARKER POST
PERMANENT CROSSOVER



FLEXIBLE
TUBULAR MARKER POST
WORK ZONE

GENERAL NOTES

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

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

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

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

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S.D.D. 15 C 11-6

S.D.D. 15 C 11-6

FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-16-2015
DATE
FHWA

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZON
SAFETY ENGINE

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

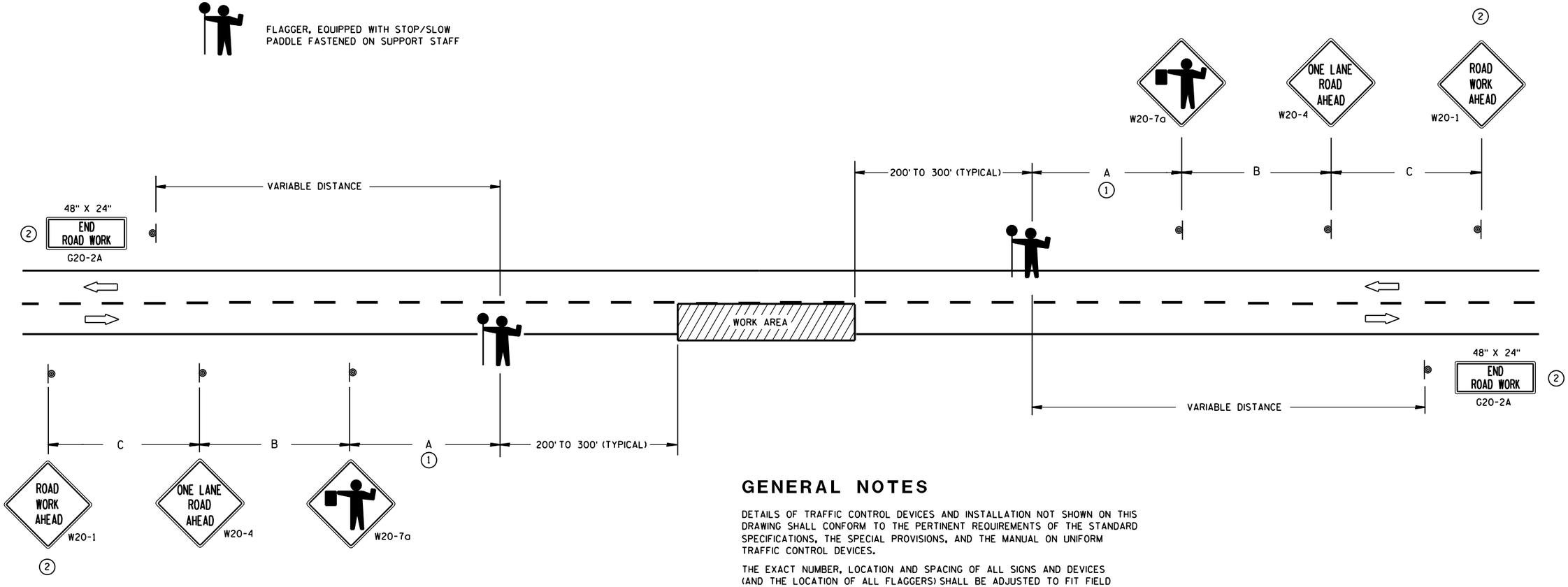
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

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

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

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

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

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

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 12-4

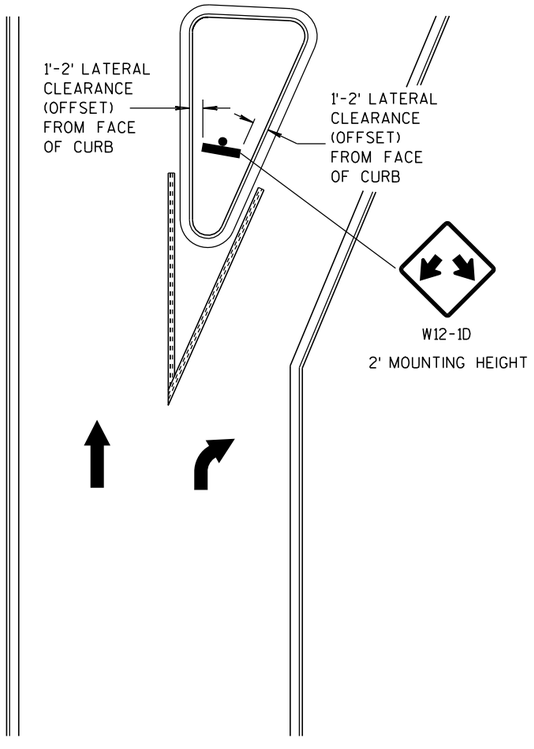
6

S.D.D. 15 C 12-4

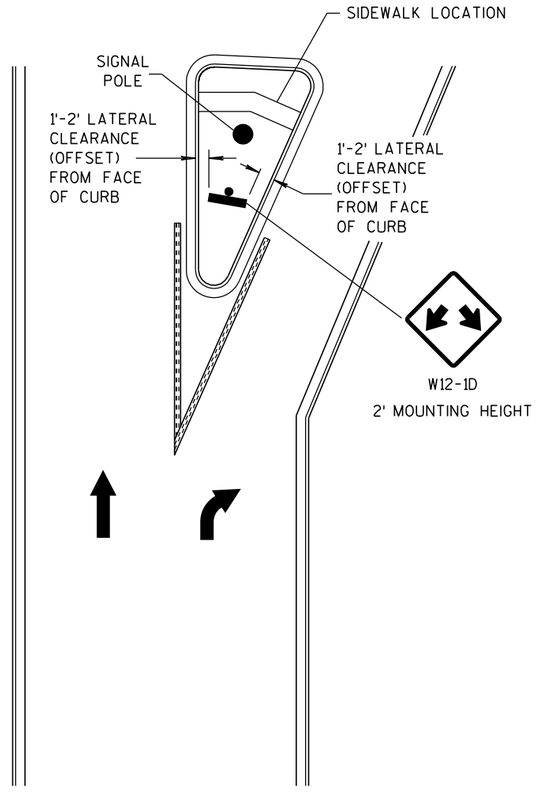
GENERAL NOTE

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

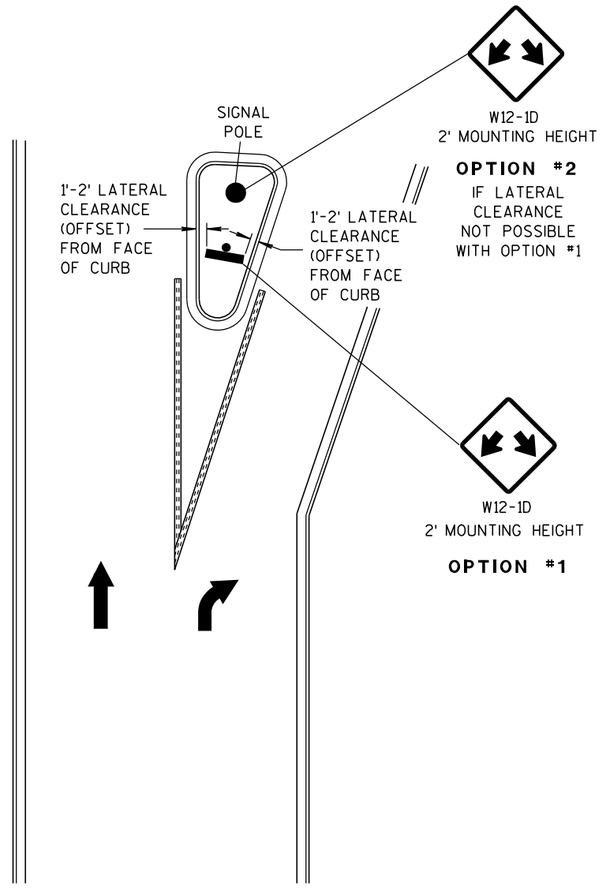
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.



LARGE RIGHT TURN ISLAND



LARGE RIGHT TURN ISLAND
WITH SIGNAL POLE



SMALL RIGHT TURN ISLAND

DOUBLE ARROW WARNING SIGN PLACEMENT

DOUBLE ARROW WARNING SIGN PLACEMENT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
10-22-08 DATE	/S/ Thomas N. Nothdurft STATE TRAFFIC ENGINEER
FHWA	225 IGN

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S.D.D. 15 C 27-1

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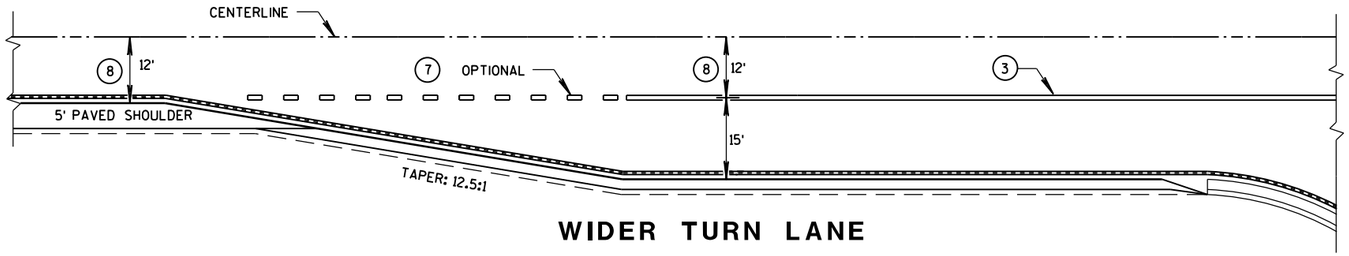
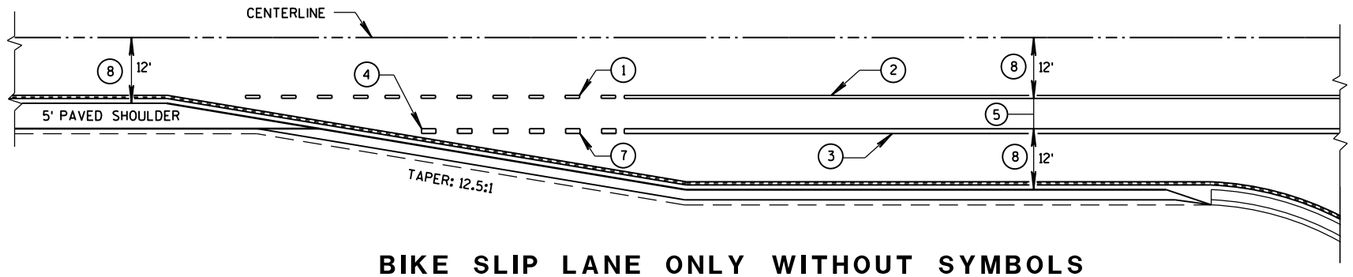
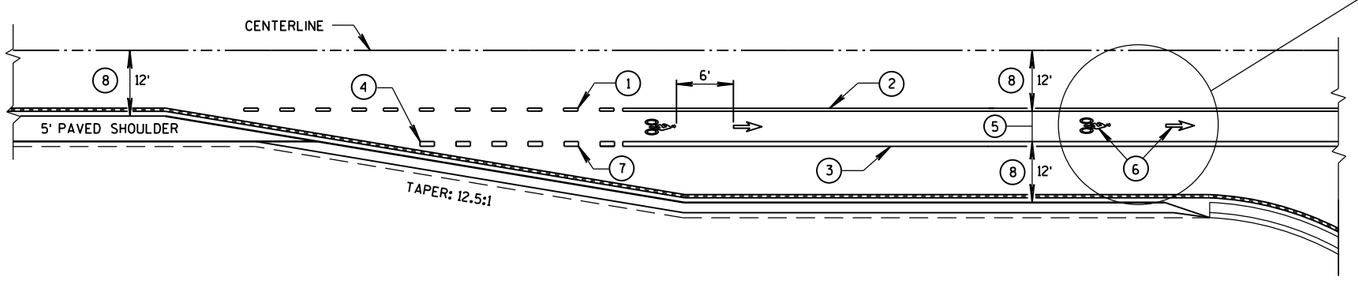
S.D.D. 15 C 27-1



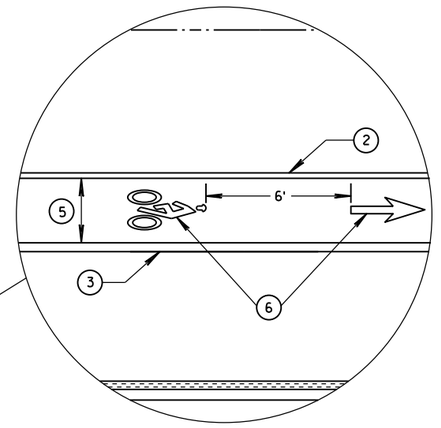
WIDER TURN LANE



BIKE SLIP LANE ONLY WITHOUT SYMBOLS



BIKE LANE WITH SYMBOLS



GENERAL NOTES

1. 3' LINE, 9' GAP - 4-INCH WIDE, WHITE.
2. 4-INCH, WHITE.
3. 8-INCH, WHITE.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. BIKE ACCOMMODATION FOR CONCRETE PAVEMENT IS 5' WIDE.
   BIKE ACCOMMODATION FOR ASPHALT PAVEMENT IS A MINIMUM OF 4', 5' AT ≥ 45 MPH.
6. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
7. 3' LINE, 9' GAP - 8-INCH WIDE, WHITE.
8. REFER TO CONTRACT PLANS.

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S.D.D. 15 C 29-3a

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

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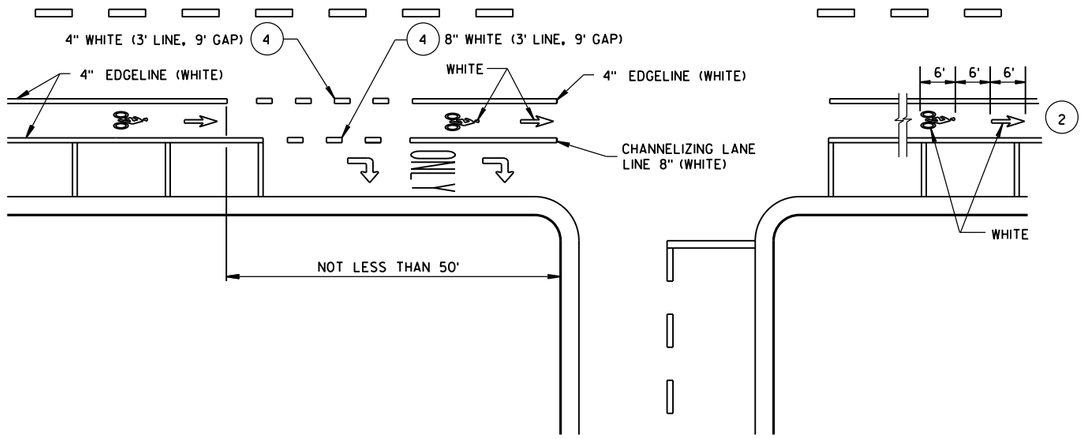
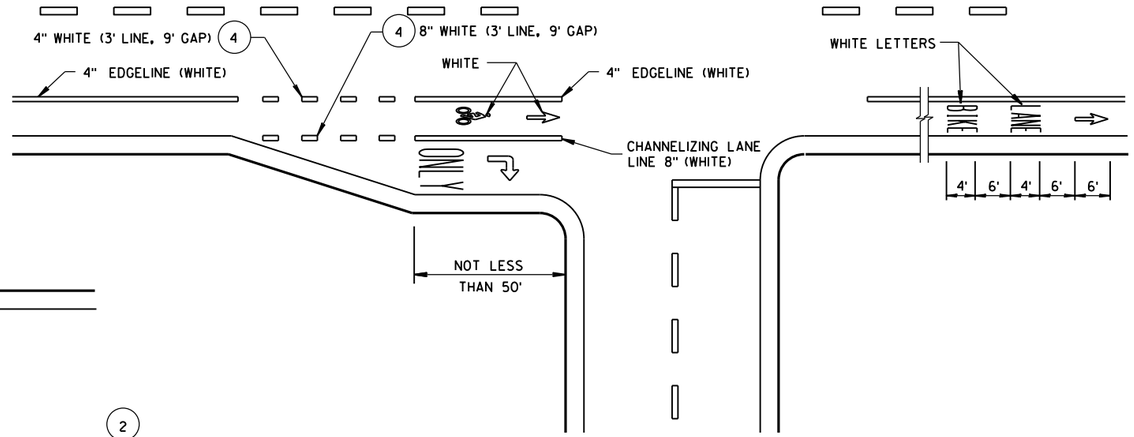
S.D.D. 15 C 29-3a



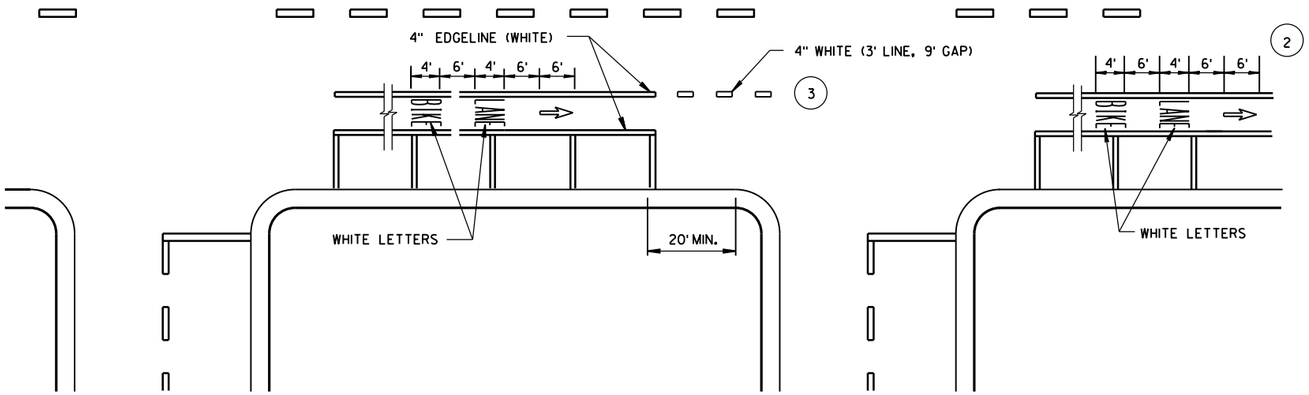
DESIGNATED BICYCLE LANE

GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. THE SERIES OF PAVEMENT MARKING SYMBOLS SHALL BE REPEATED AFTER INTERSECTIONS AND SPACED A MAXIMUM OF 250'. NO PAVEMENT MARKING WILL TAKE PLACE IN THE CROSSWALK.
3. DOTTED LINES SHOULD BE USED 50' TO 200' 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. WHEN SPECIFIED IN THE CONTRACT.



DESIGNATED BICYCLE LANE
NO PARKING, RIGHT TURN LANE



DESIGNATED BICYCLE LANE
WITH PARKING, NO RIGHT TURN LANE

URBAN BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/30/2013 DATE
/S/ Travis Feltes
STATE TRAFFIC E
FHWA

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S.D.D. 15 C 29-3c

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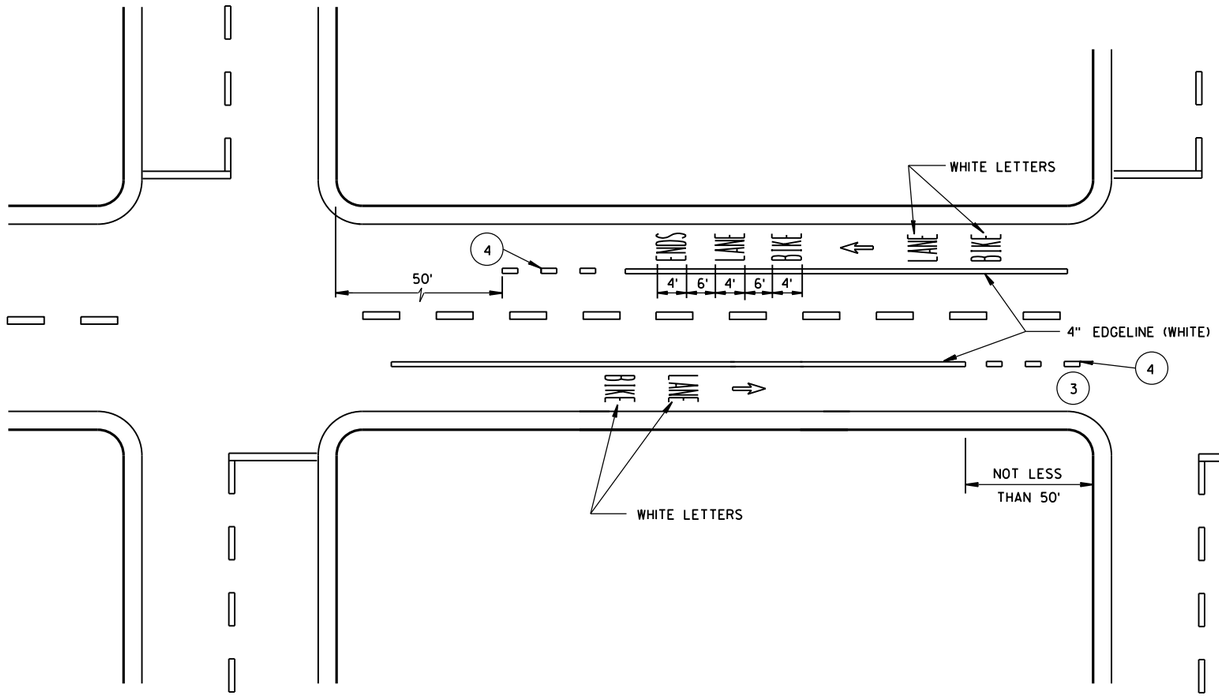
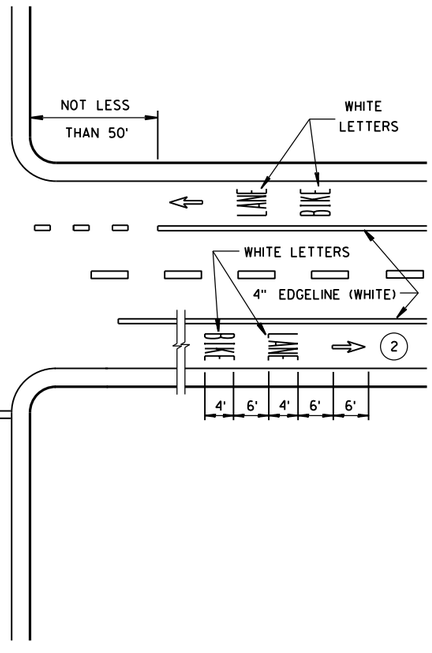
S.D.D. 15 C 29-3c

GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. THE SERIES OF PAVEMENT MARKING SYMBOLS SHALL BE REPEATED AFTER INTERSECTIONS AND SPACED A MAXIMUM OF 250'. NO PAVEMENT MARKING WILL TAKE PLACE IN THE CROSSWALK.
3. DOTTED LINES SHOULD BE USED 50' TO 200' 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. 3' LINE, 9' GAP - 4" WIDE, WHITE.





DESIGNATED BICYCLE LANE
NO PARKING

URBAN BICYCLE LANE MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
4/30/2013 DATE	/S/ Travis Feltes STATE TRAFFIC EN 228
FHWA	

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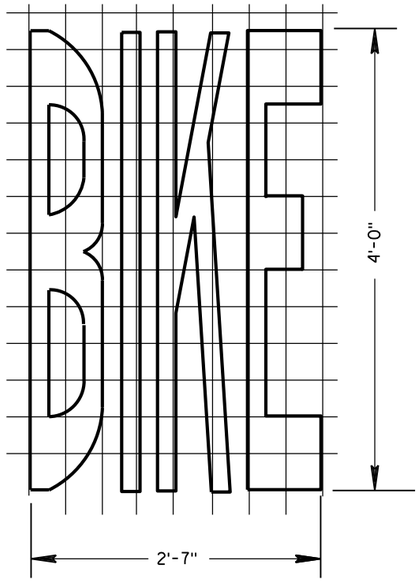
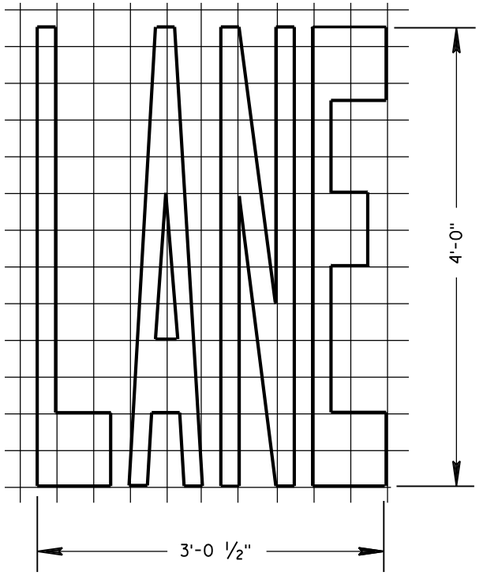
S.D.D. 15 C 29-3d

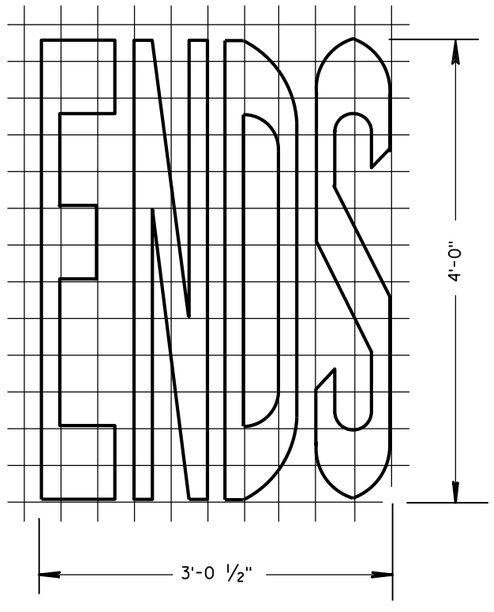
GENERAL NOTES

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.

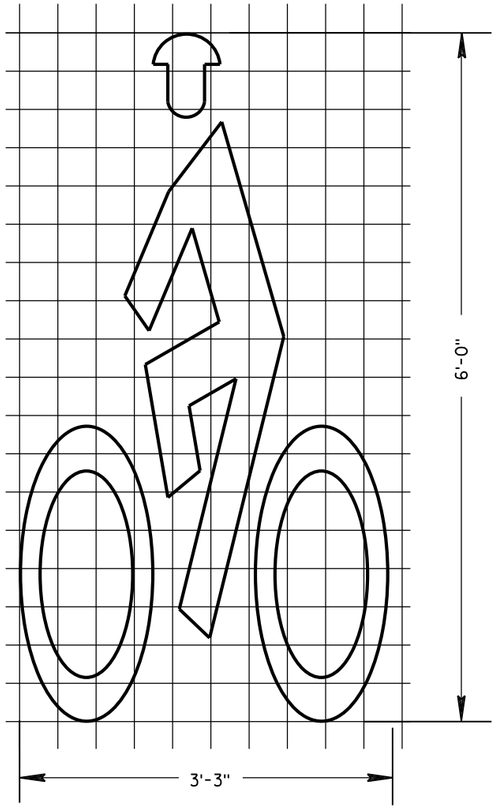
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



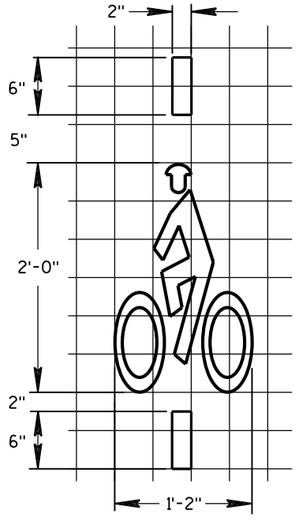




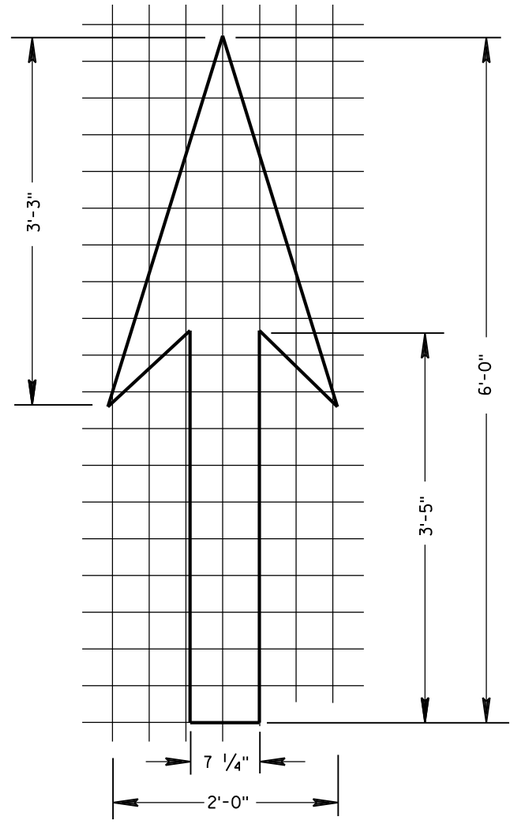
BIKE LANE WORDS



BIKE LANE SYMBOL



BICYCLE DETECTOR PAVEMENT MARKING



BIKE LANE ARROW

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-30-2013
DATE

/S/ Travis Feltes
STATE TRAFFIC EN

FHWA

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S.D.D. 15 C 29-3e

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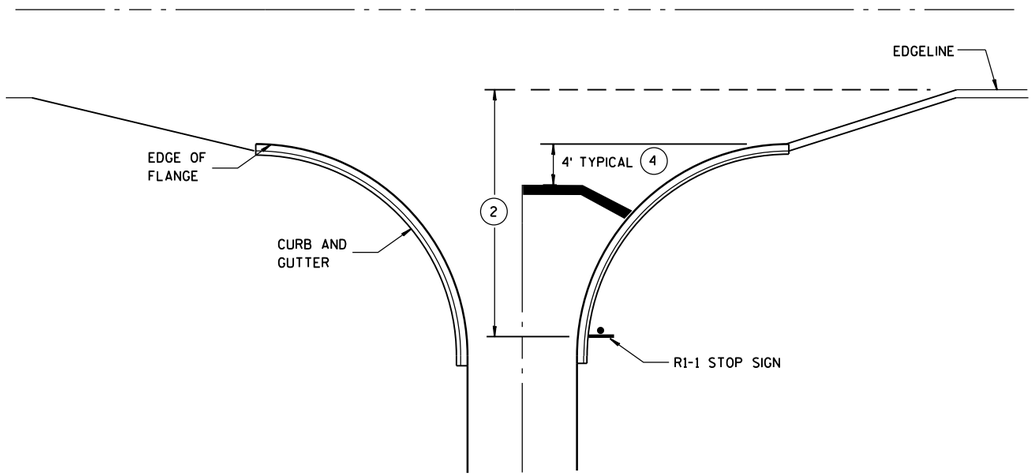
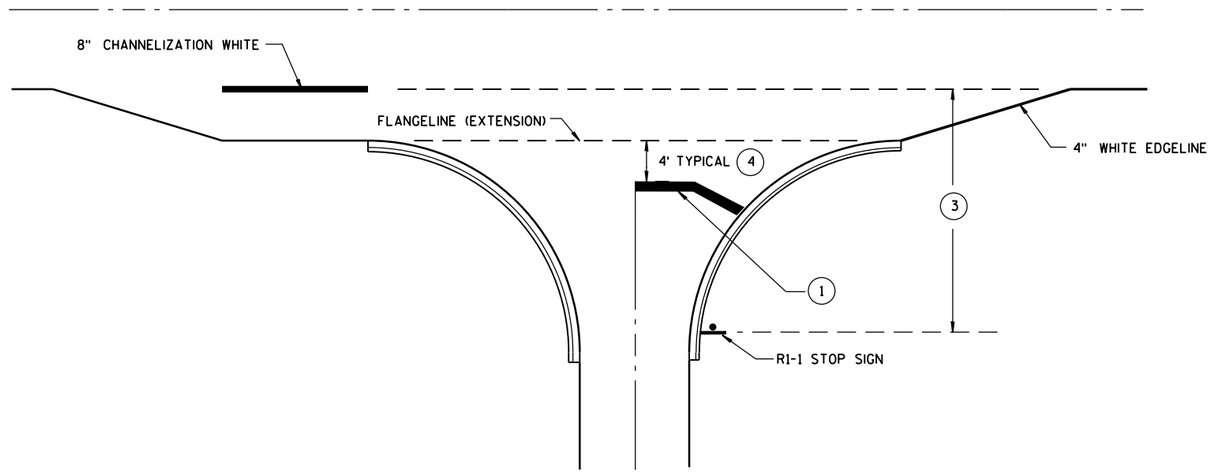
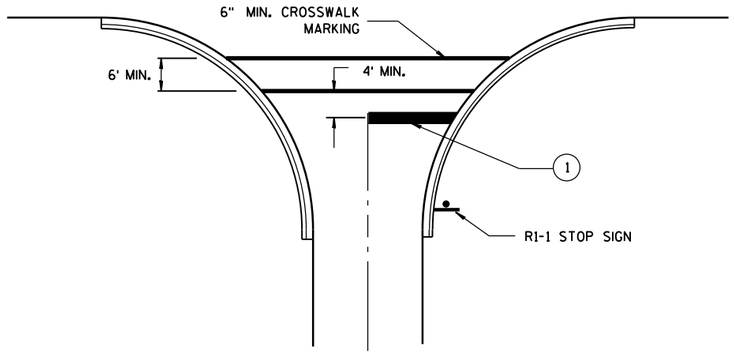
S.D.D. 15 C 29-3e



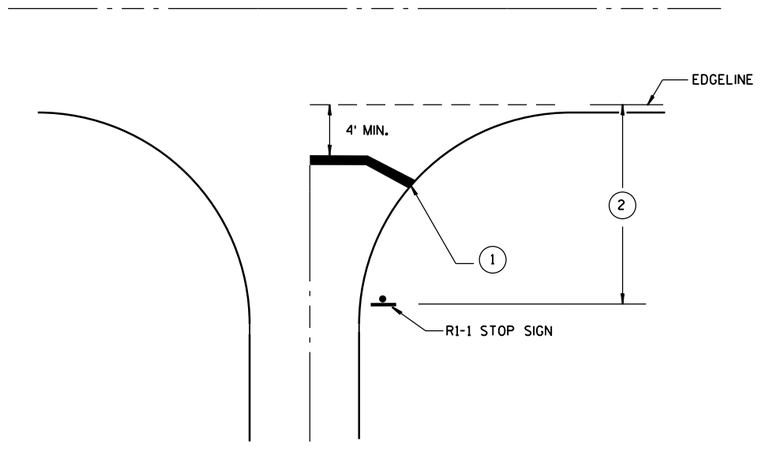
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

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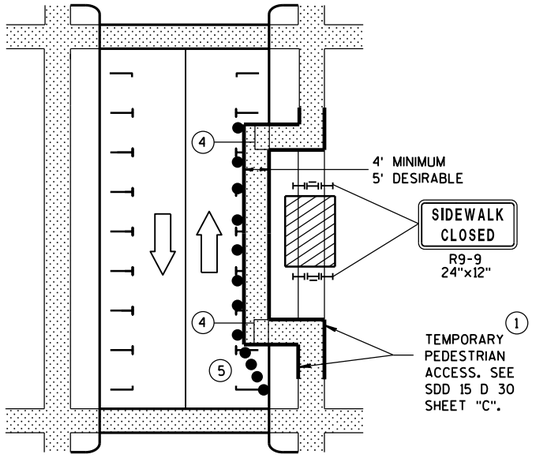
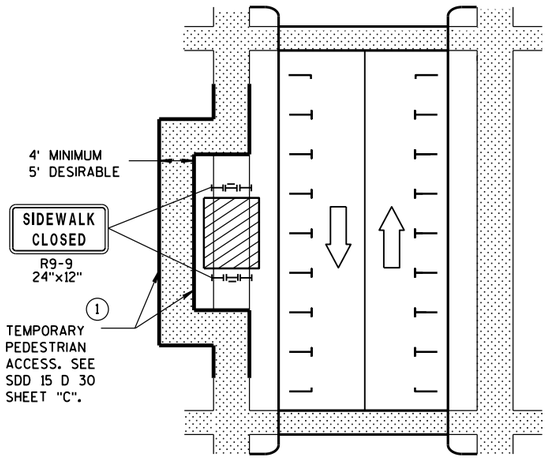
S.D.D. 15 C 33-1

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

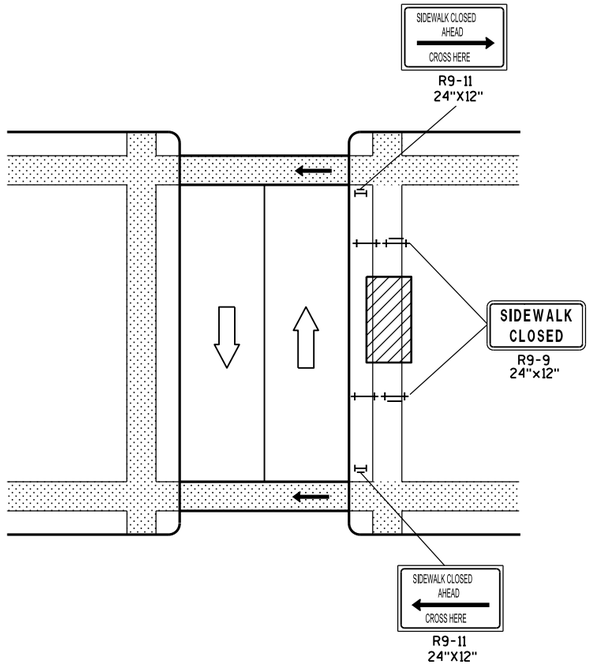


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

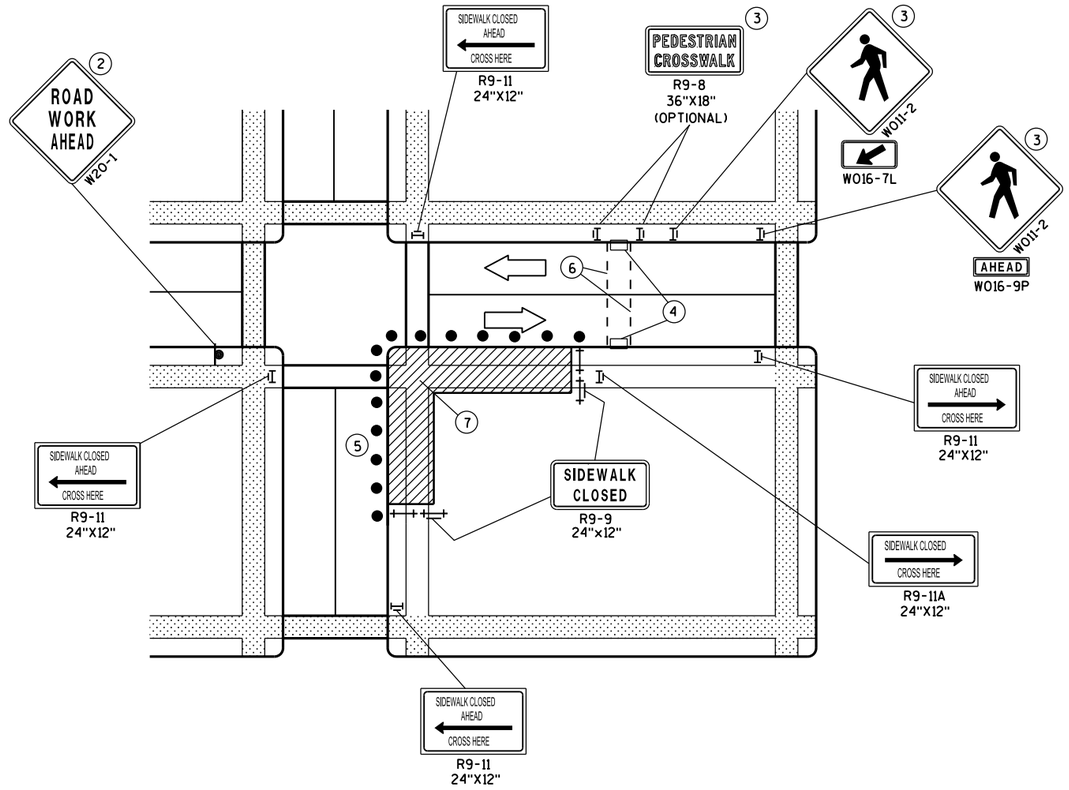
NOTE: LAYOUT SAME AS ABOVE.



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 NIGHTTIME 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 BETWEEN 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 W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 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
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- 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)
- DIRECTION OF TRAFFIC
- TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 D 30-2a

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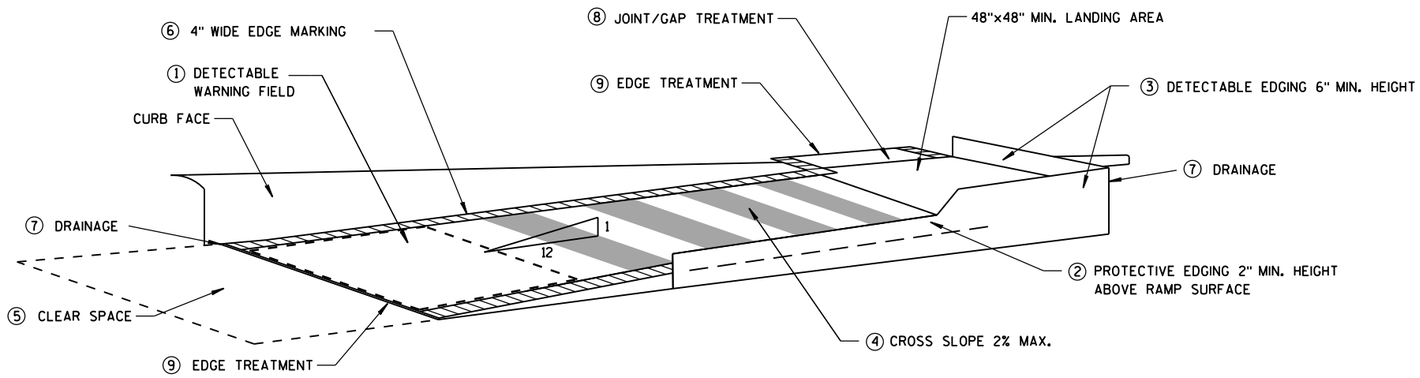
S.D.D. 15 D 30-2a



TEMPORARY CURB RAMP PARALLEL 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 FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 8D5 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"X48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

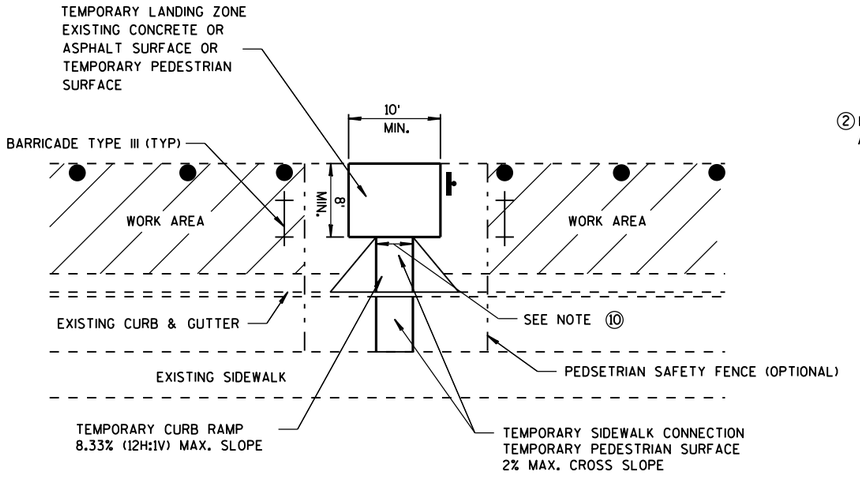
⑥ THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.

⑦ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

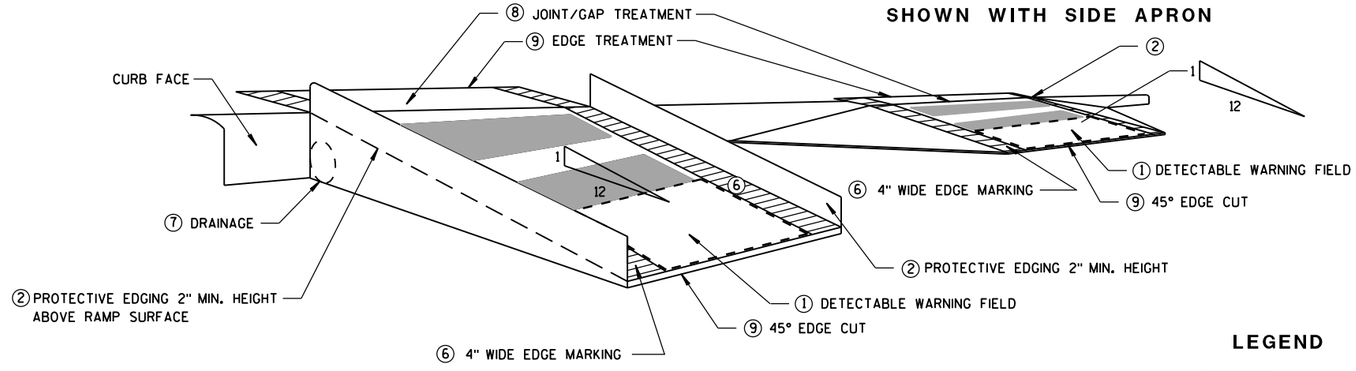
⑧ LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

⑨ CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHALL BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

⑩ 5' WIDE MIN. WITH PEDSETRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.



TEMPORARY BUS STOP PAD



SHOWN WITH SIDE APRON

SHOWN WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

LEGEND

WORK AREA

TYPE III BARRICADE

TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

March 2015 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER — SIGN

FHWA

6

S.D.D. 15 D 30-2b

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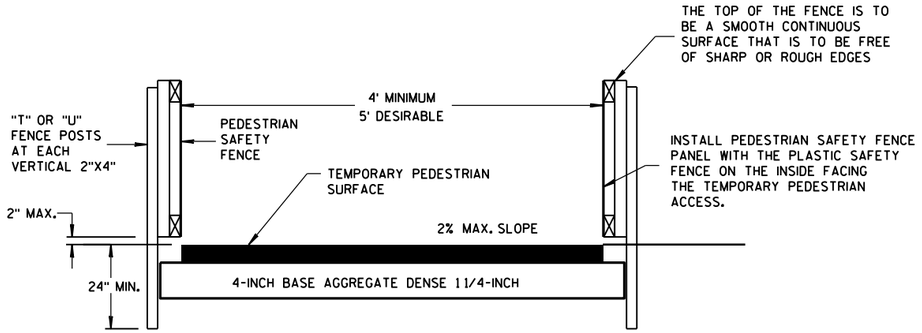
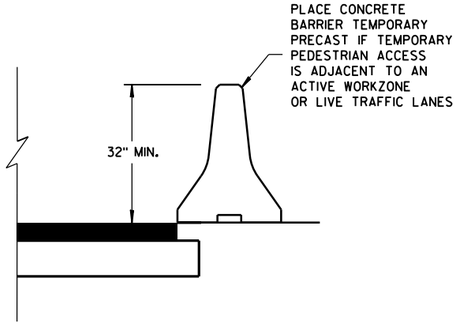
S.D.D. 15 D 30-2b

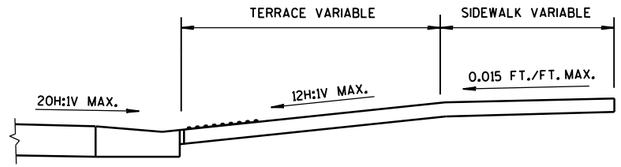




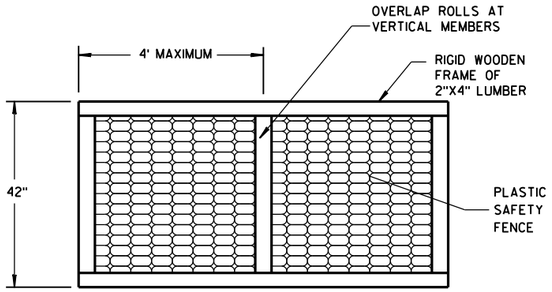
TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

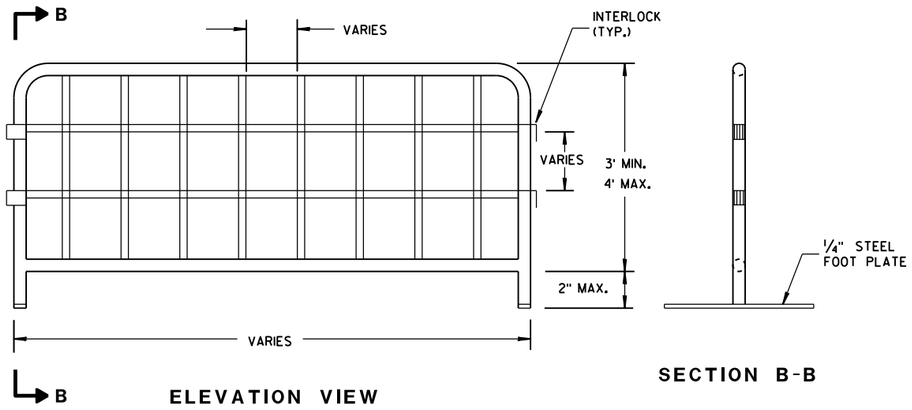
(1) INTERCHANGEABLE WITH THE PEDESTRIAN SAFETY FENCE.



SECTION A-A



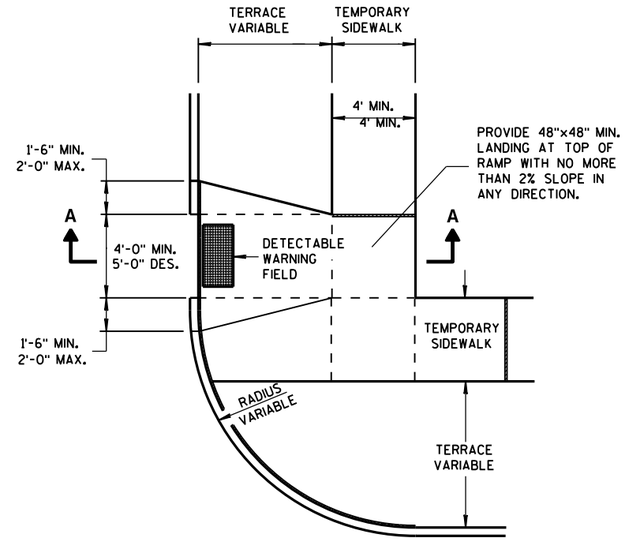
PEDESTRIAN SAFETY FENCE



ELEVATION VIEW

SECTION B-B

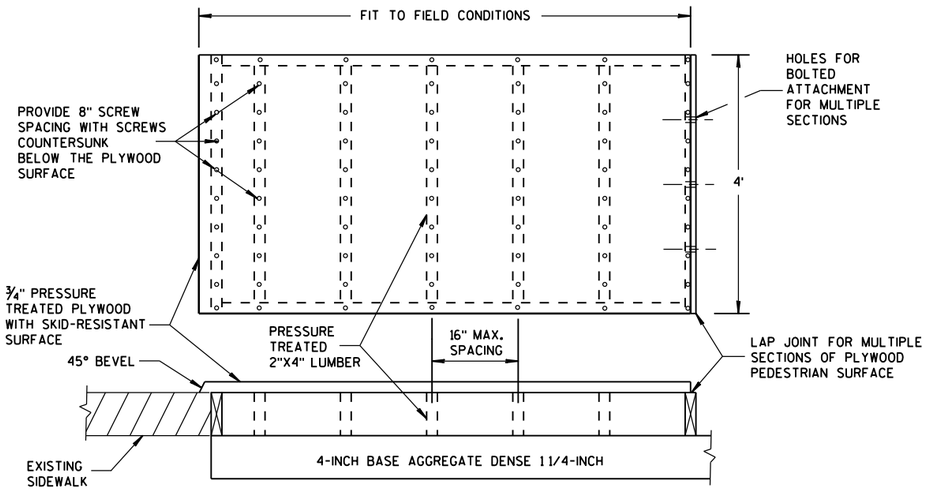
TEMPORARY PEDESTRIAN STEEL BARRICADE (1)



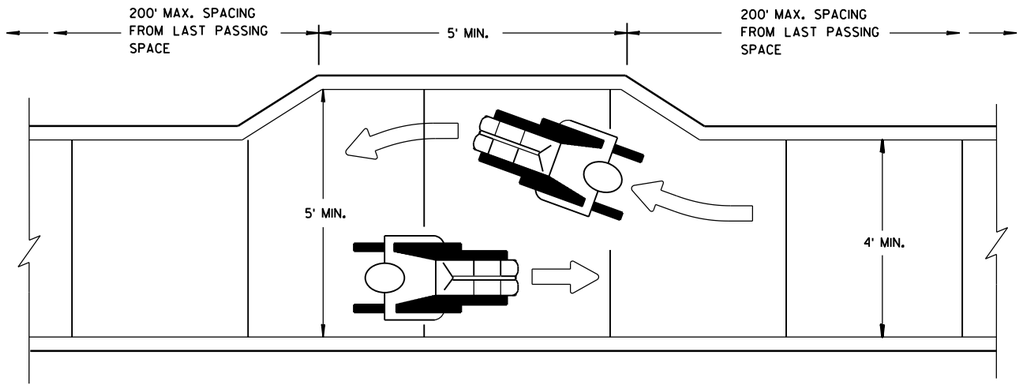
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



NARROW SIDEWALK PASSING DETAIL

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER — SIGN
FHWA

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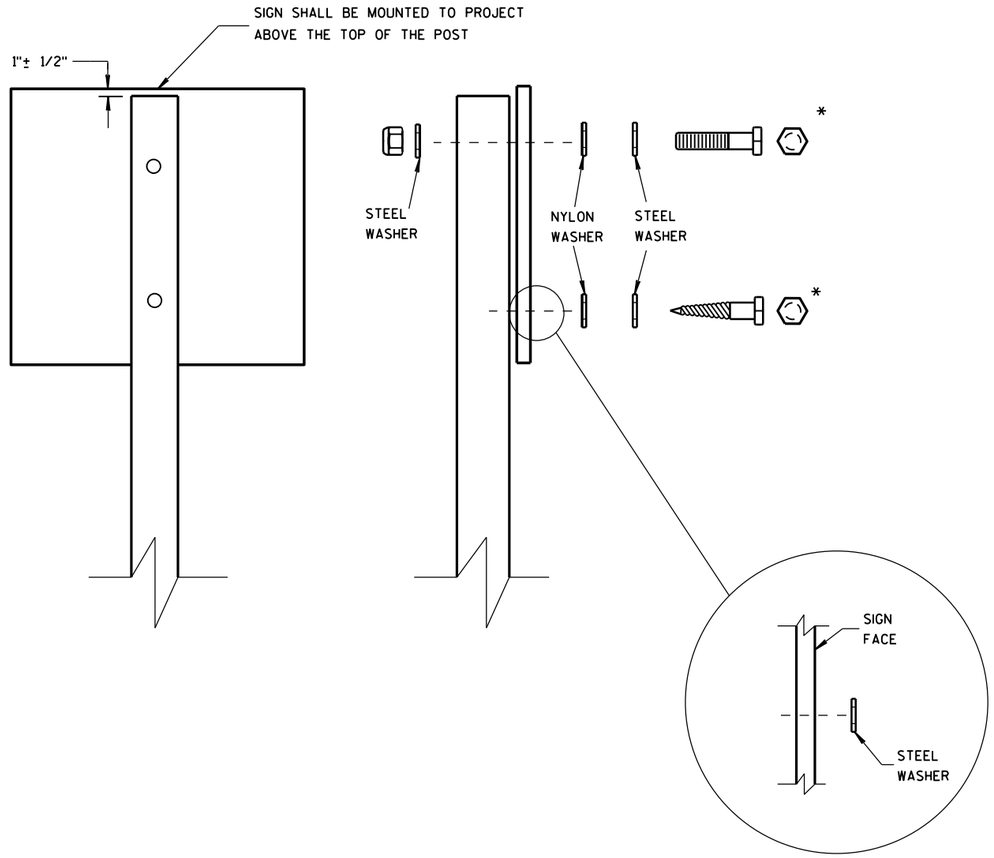
S.D.D. 15 D 30-2c

6

S.D.D. 15 D 30-2c



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

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

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

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

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

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

6

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S.D.D. 15 D 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

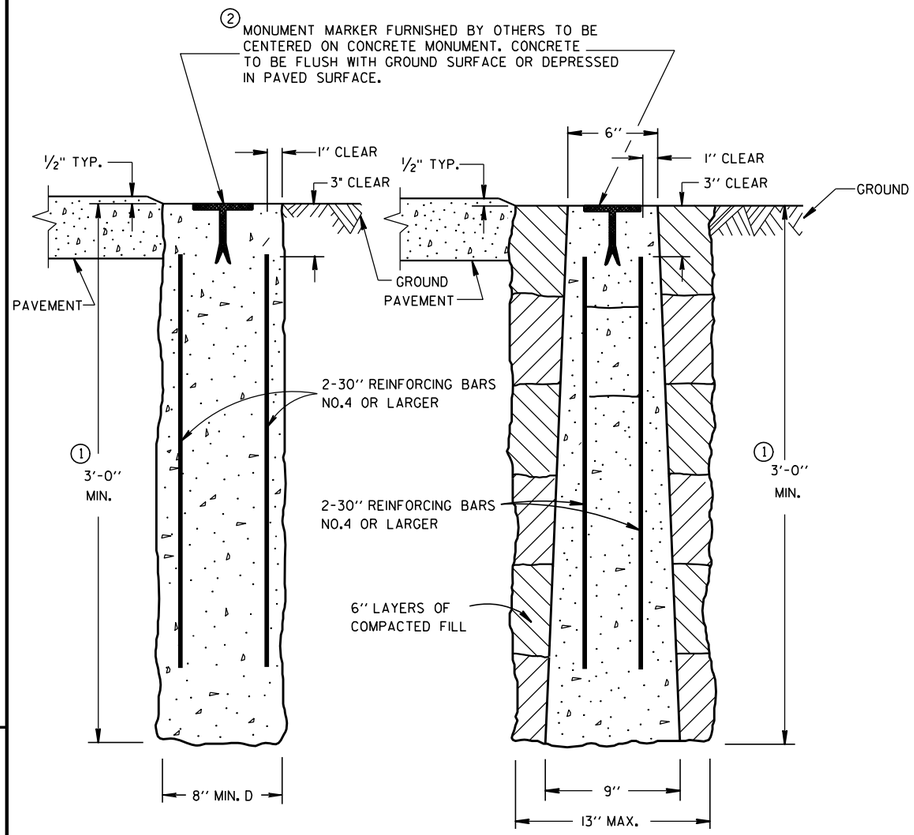
APPROVED

Feb. 2015 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

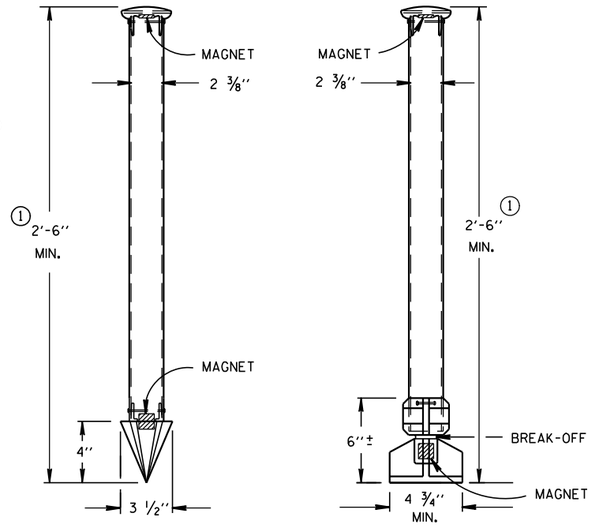
SIGN



CAST-IN-PLACE PRECAST

CONCRETE MONUMENTS

TYPE A



TYPE C DRIVE-IN MONUMENT

TYPE D BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

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.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

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.

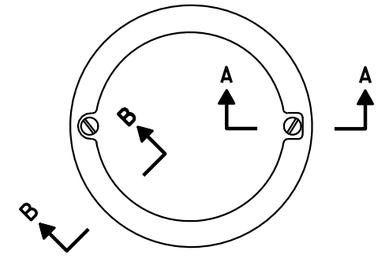
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

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.

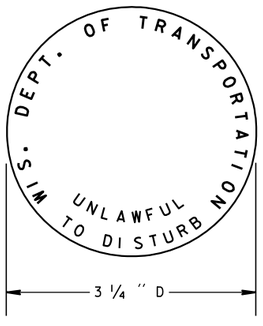
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

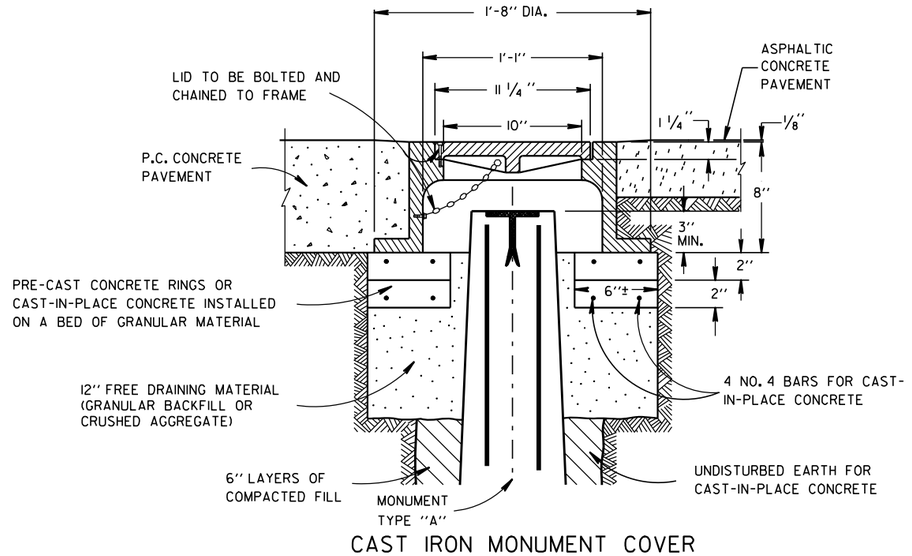
② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW

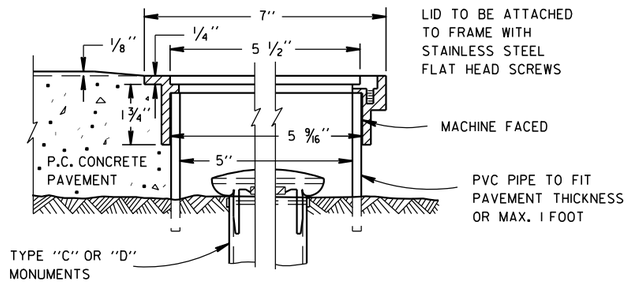


② WIS DOT MONUMENT MARKER LOGO FOR TYPES "A", "C" & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)

(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MOUNMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/22/1999 DATE

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6

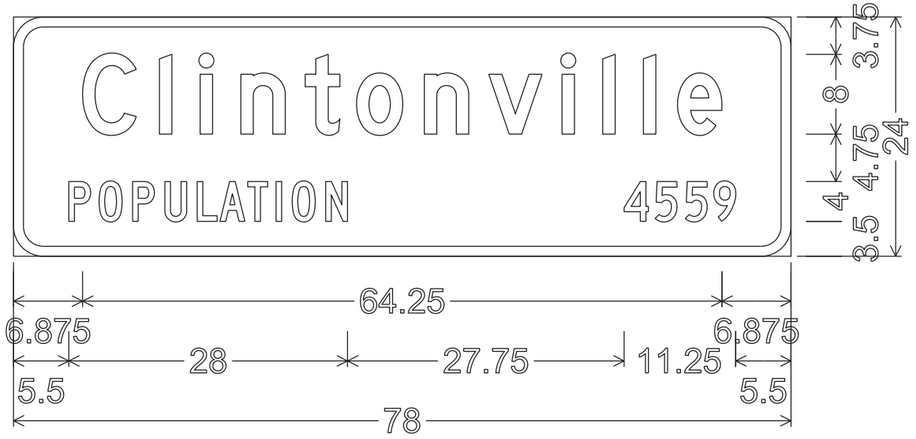
S.D.D. 16 A 1-6

6

S.D.D. 16 A 1-6

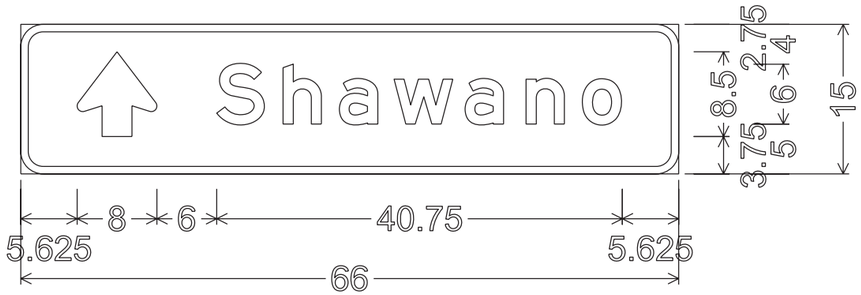
NOTES

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

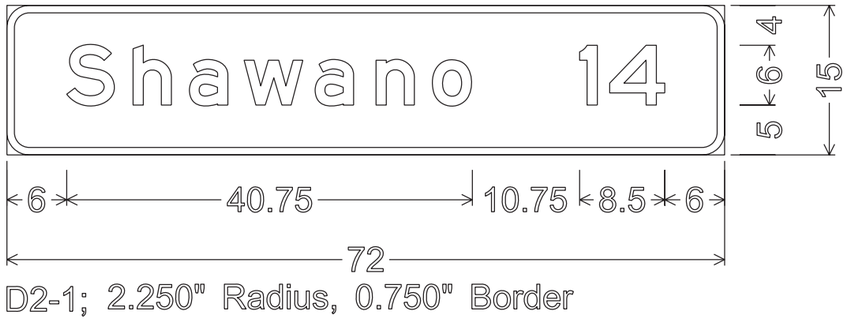


I2-3; 3.000" Radius, 1.000" Border

"Clintonville" D; "POPULATION" C ; "4559" C;



D1-1; 2.250" Radius, 0.750" Border



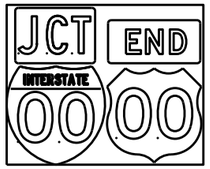
D2-1; 2.250" Radius, 0.750" Border

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	PERMANENT SIGNING	SHEET NO:	E

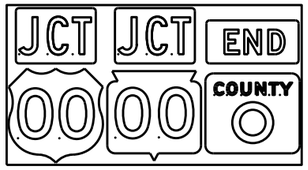
FILE NAME : C:\CAEfiles\Projects\tr_d4\4681a315.dgn PLOT DATE : 30-MAR-2015 13:28 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 15.374630:1.000000 WISDOT/CADDS SHEET 42

TYPICAL ASSEMBLIES

J1-1

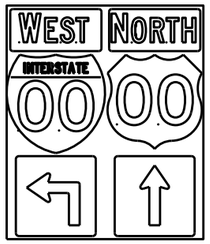


J1-2

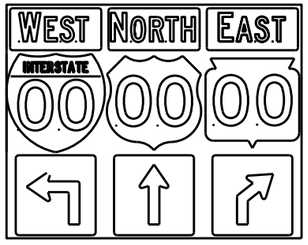


J1-3

J2-1



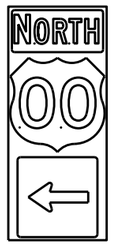
J2-2



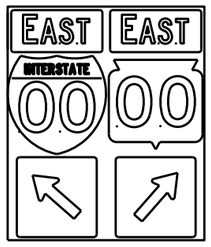
J2-3

JV

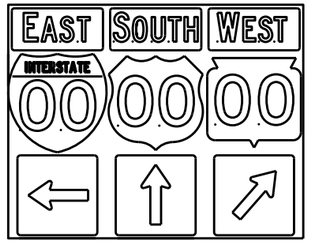
(Typical Vertical J-Assembly
See Note 10 and 11)



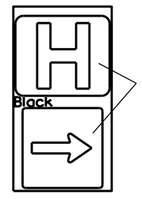
J3-1



J3-2



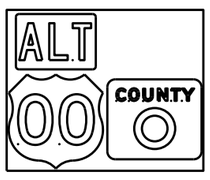
J3-3



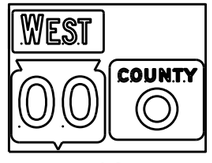
Blue Background

JH-1

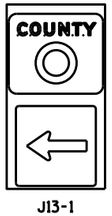
J4-1



J4-2



J4-2



J13-1

J12-1

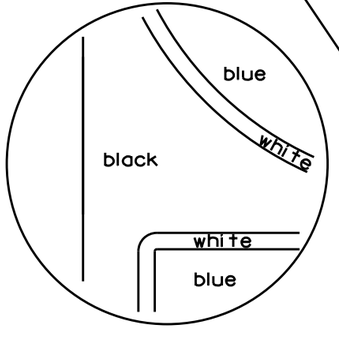
J32-1

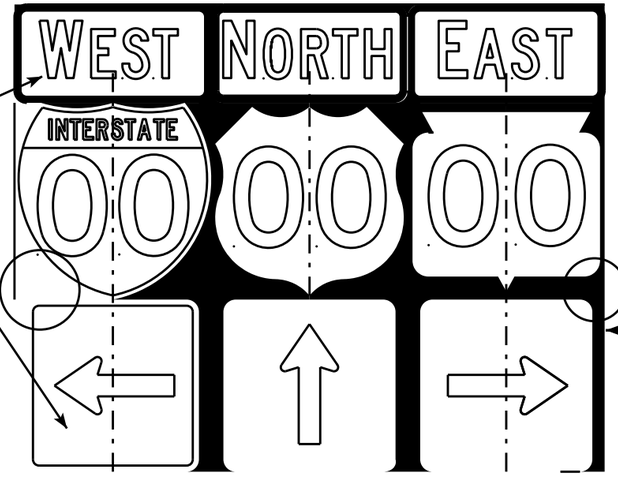
J33-1

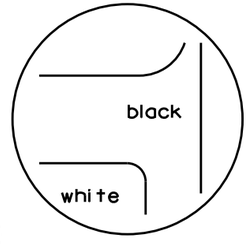
J23-1

J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

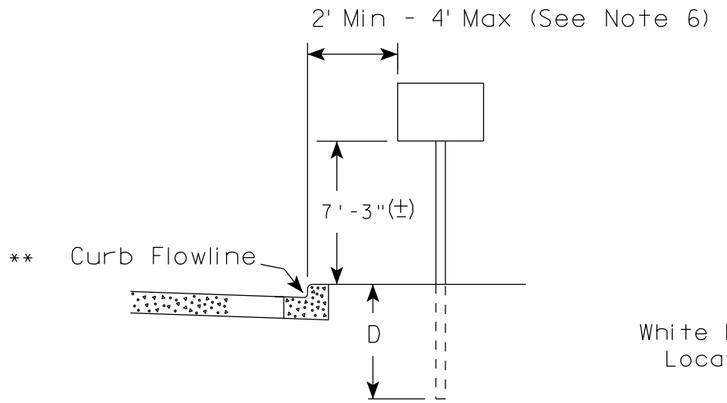
APPROVED Matthew R Rauch
for State Traffic Engineer

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

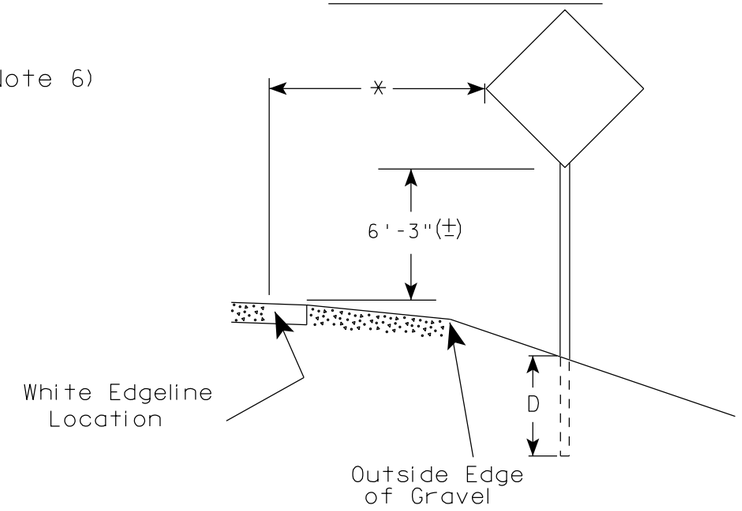
PROJECT NO: | SHEET NO: E

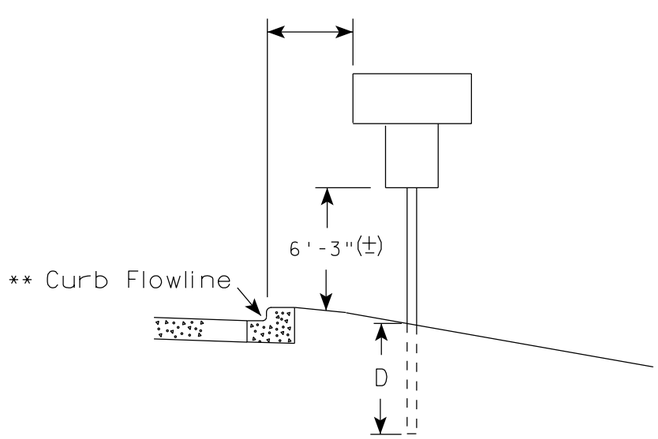
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :
WISDOT/CADDS SHEET 42

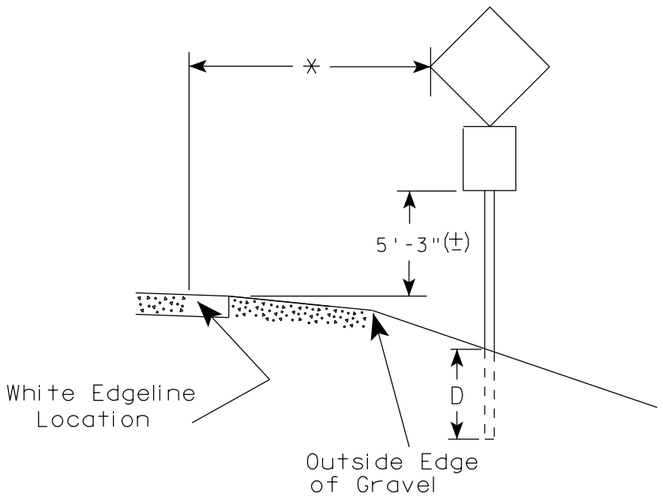
URBAN AREA



RURAL AREA (See Note 2)







GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

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

** 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.

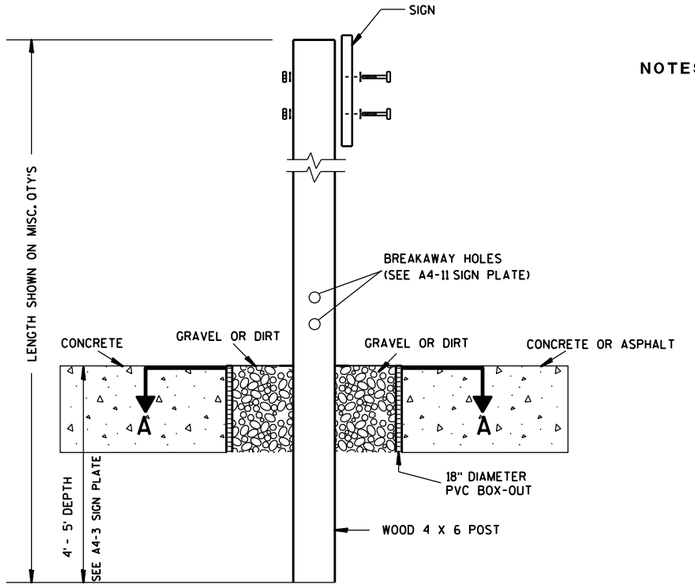
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

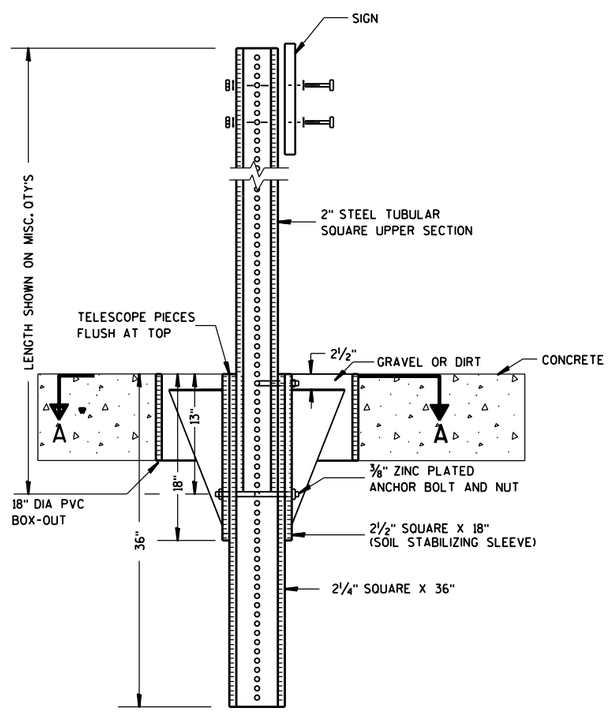
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

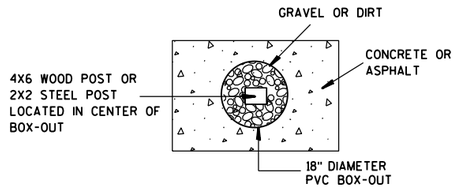
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

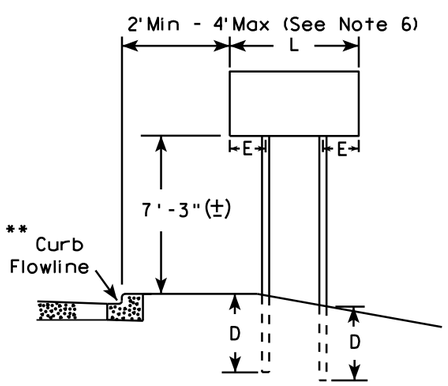
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

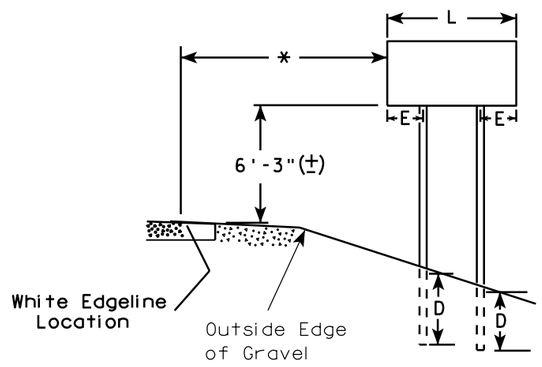
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

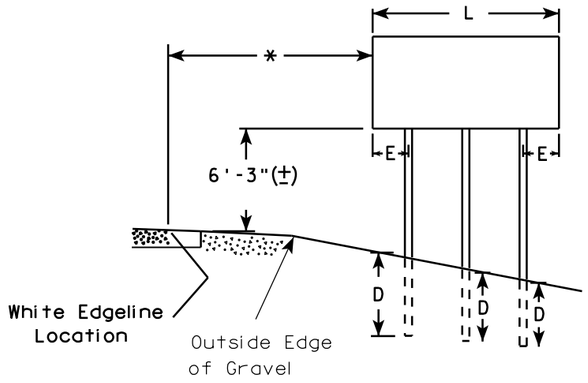
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

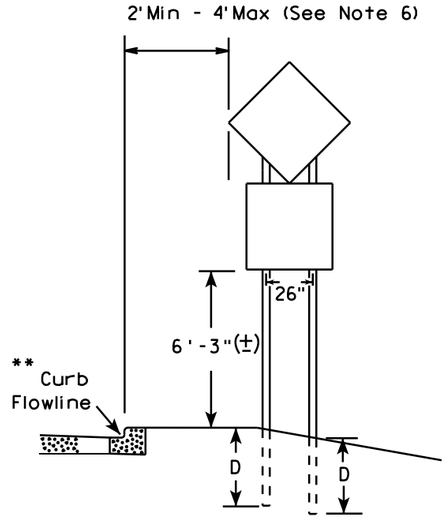
URBAN AREA



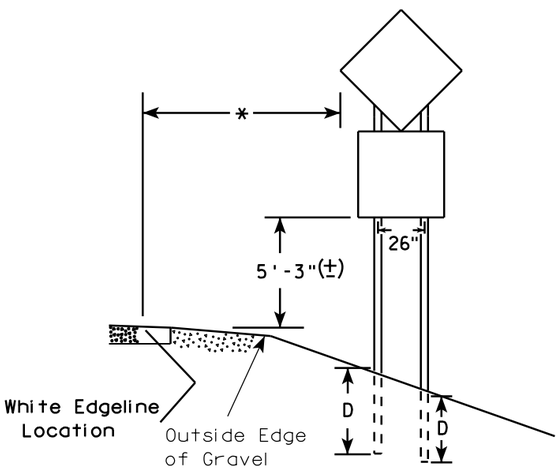
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

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

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

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

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

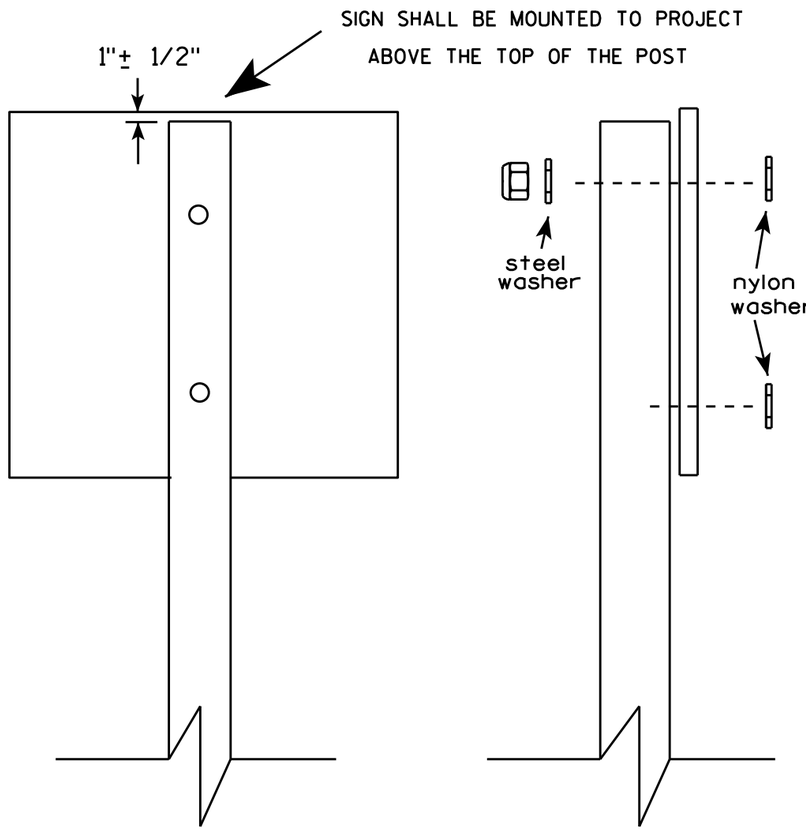
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

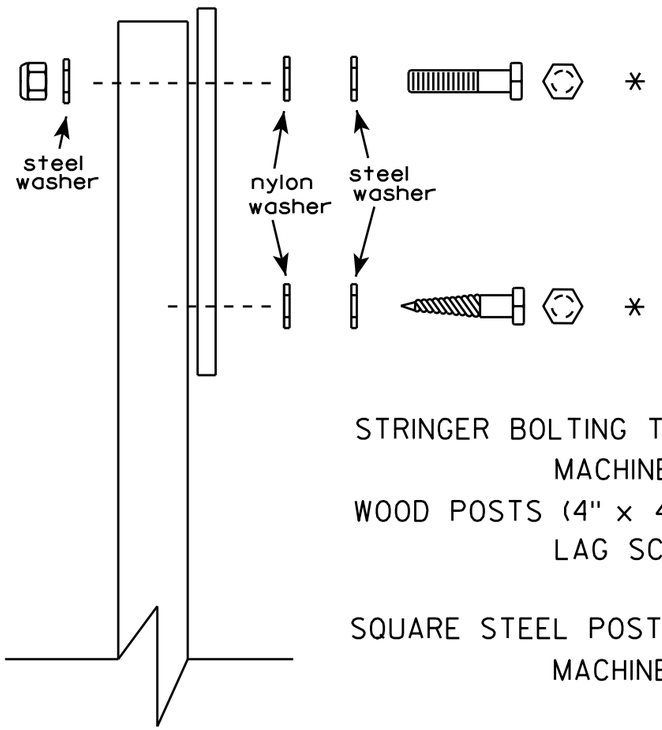
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. AA-1 240 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E





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

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

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

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/8" X 1-3/4" Length w/ nuts

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

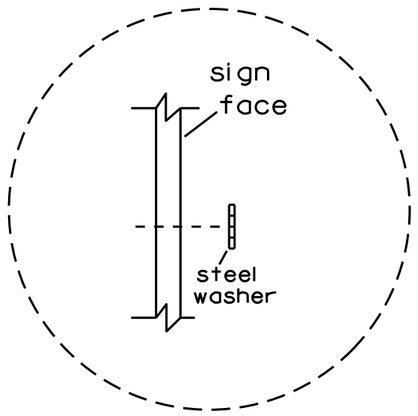
SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

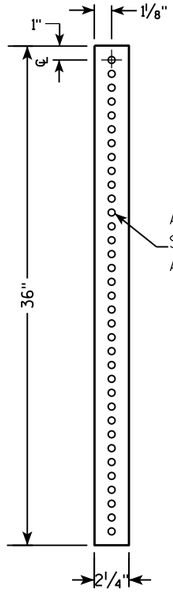
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/16 PLATE NO. A4-8.8

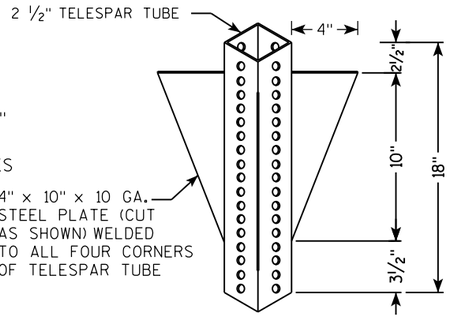
PROJECT NO: SHEET NO: E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

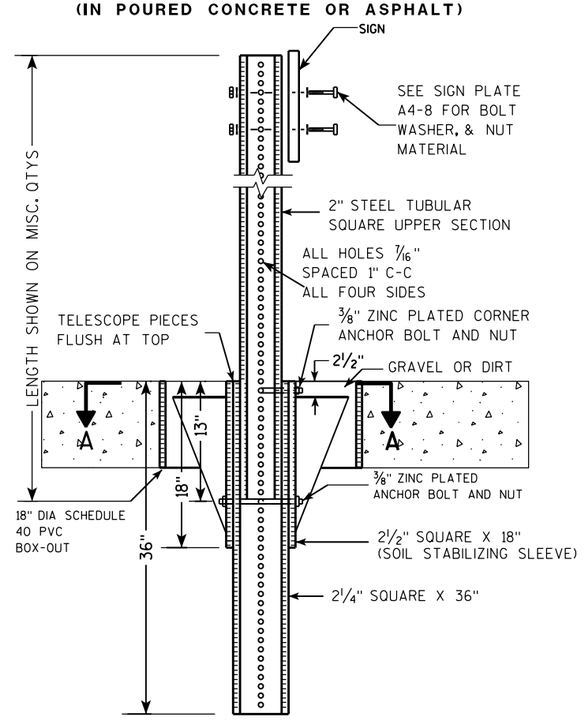
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



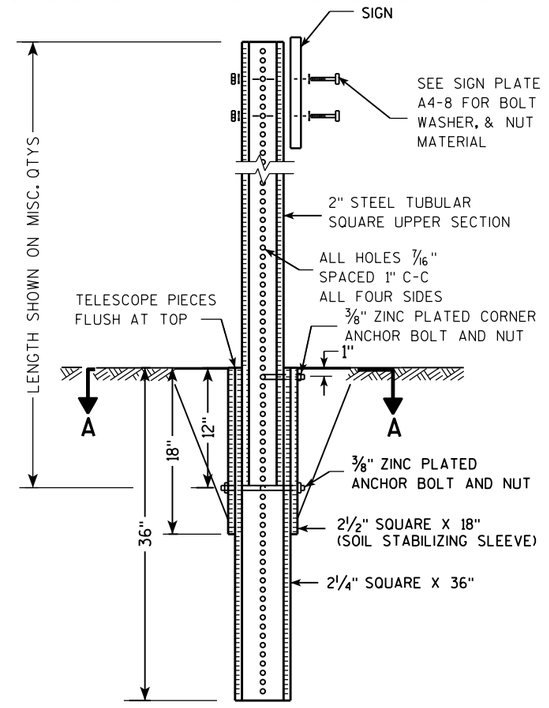
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

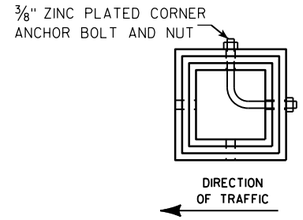


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

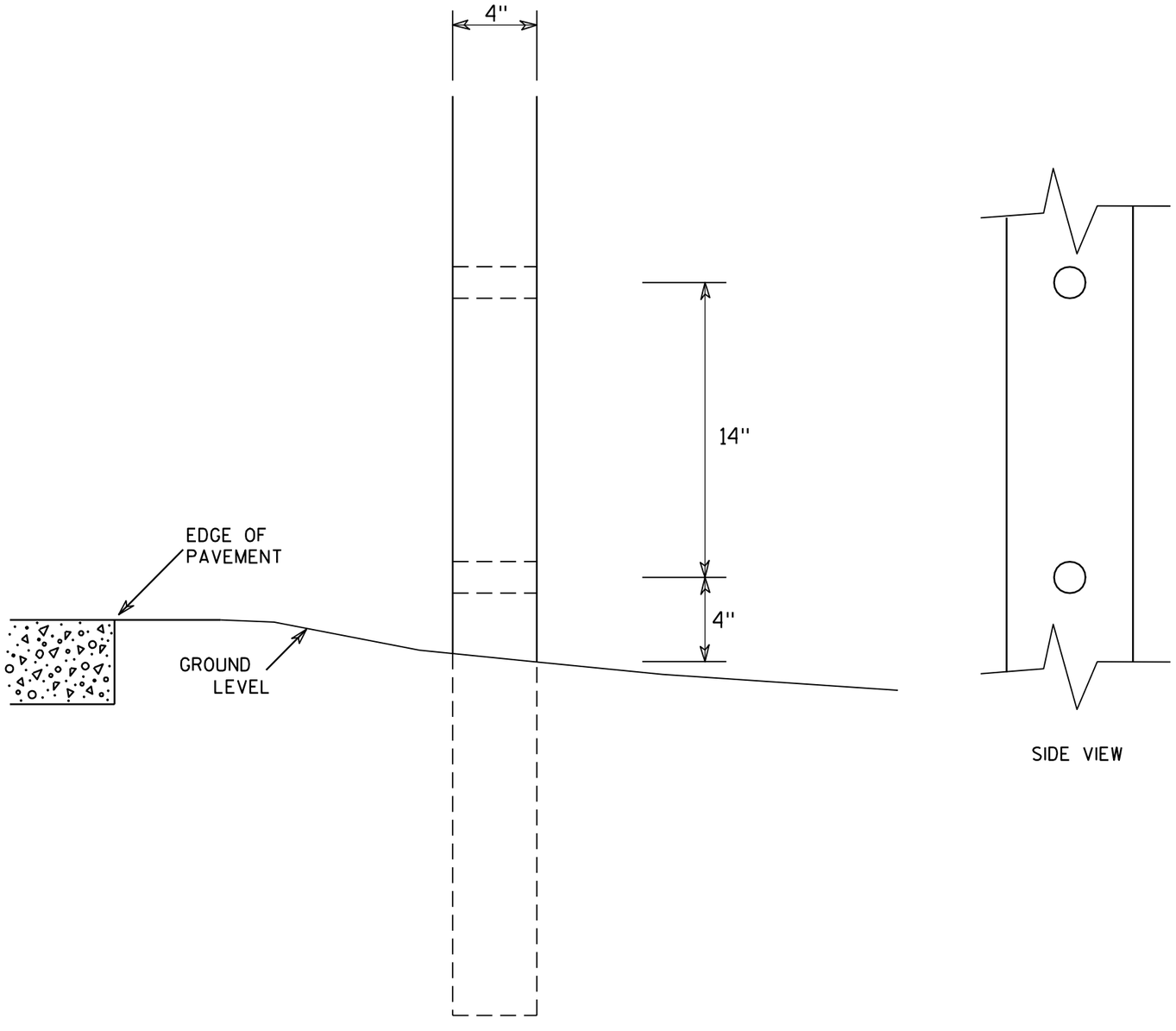
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 242 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

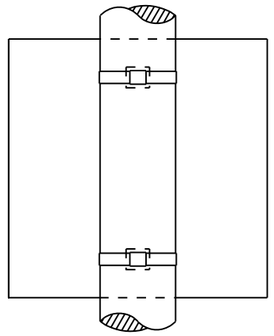
APPROVED Chester J Spang for State Traffic Engineer

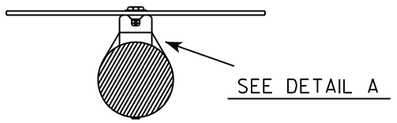
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 243	E

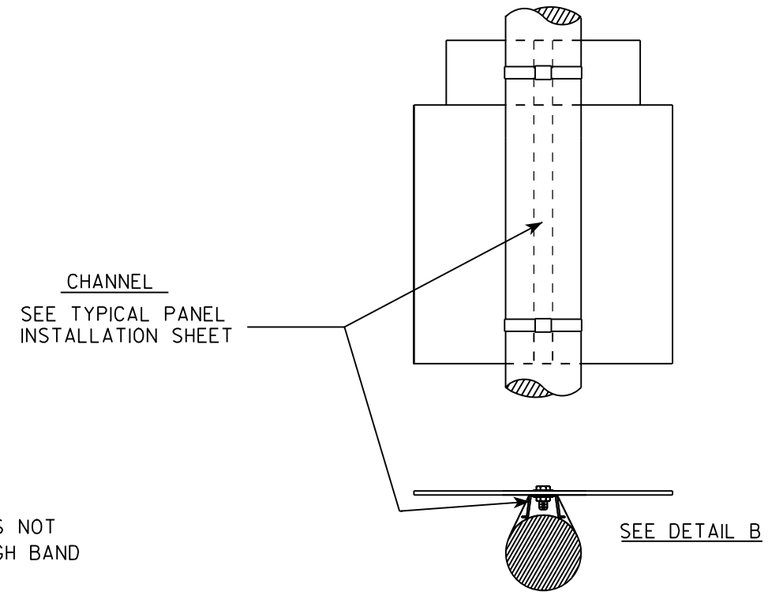
BANDING

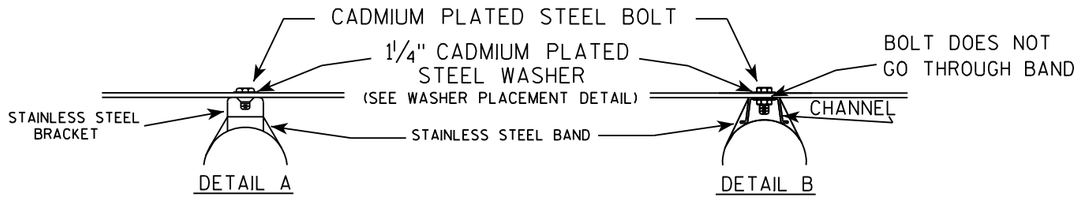
SINGLE SIGN



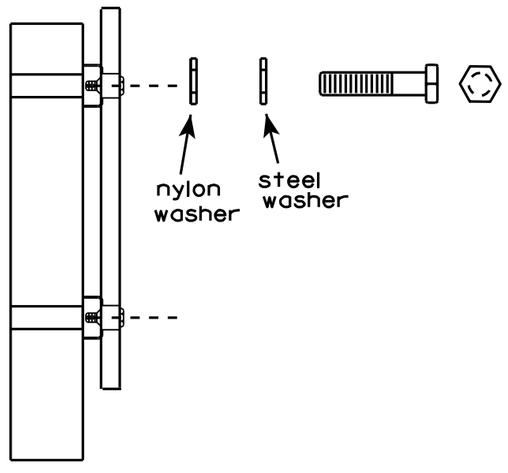


"J" ASSEMBLY





WASHER PLACEMENT



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

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

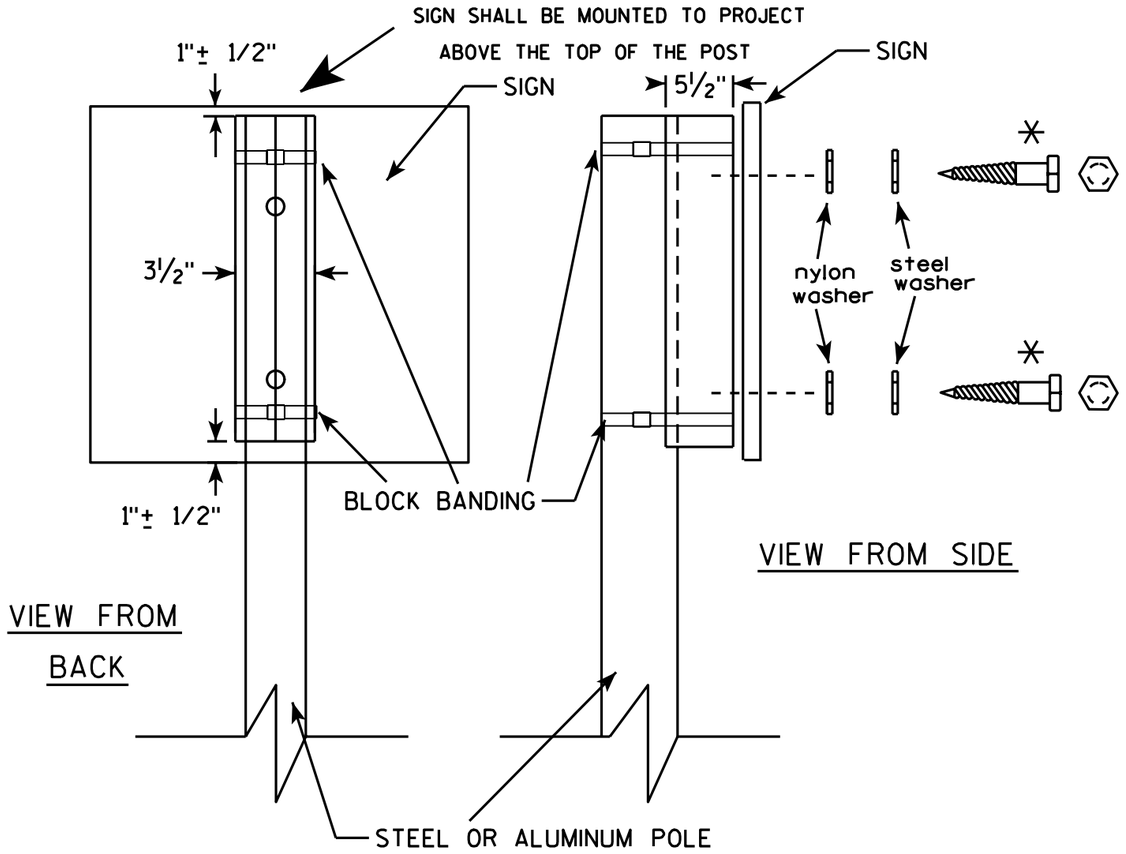
STANDARD SIGN
SIGN BANDING DETAILS

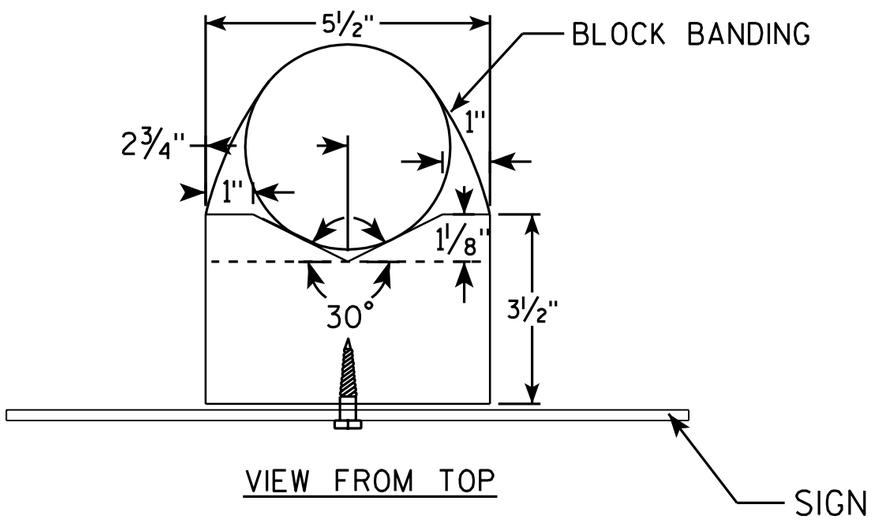
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 244	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

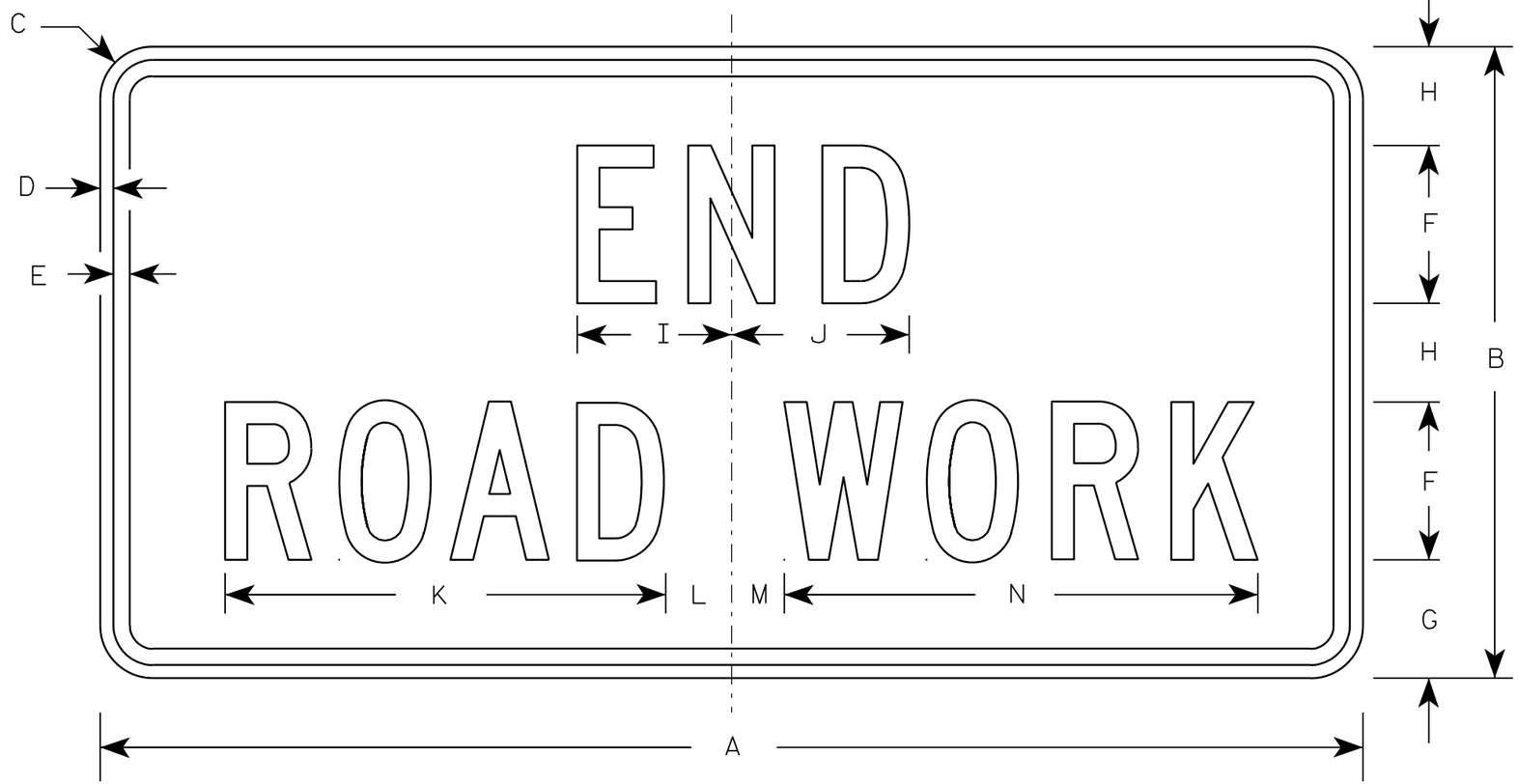
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 245 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

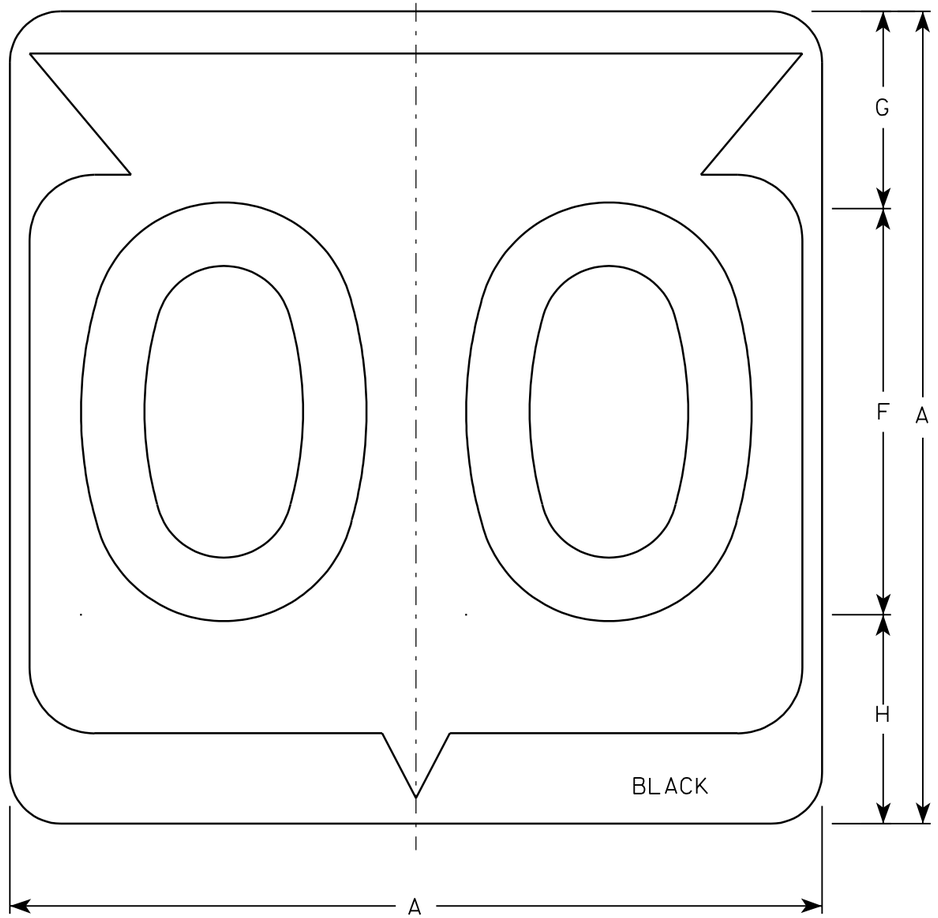
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

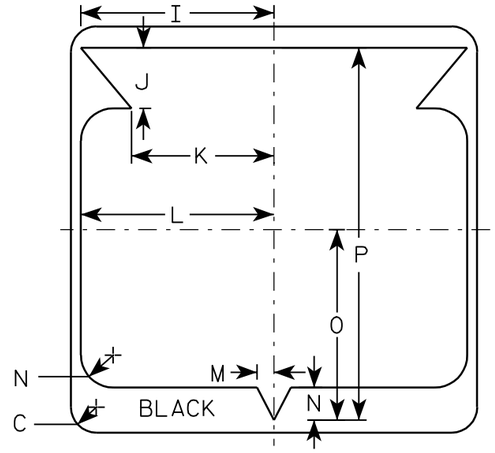
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 246	E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

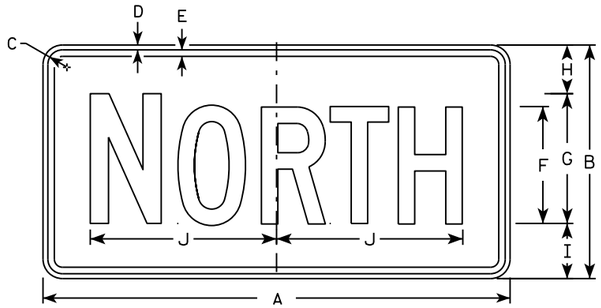
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

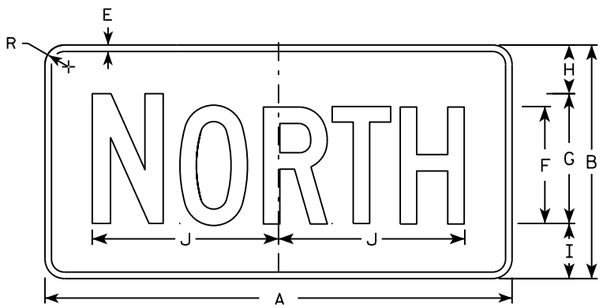
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 247	E



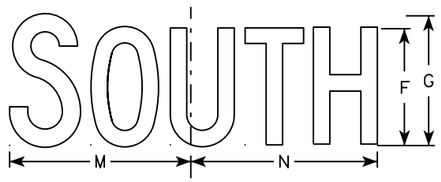
M3-1
MM3-1
MP3-1



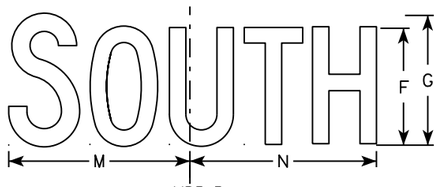
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

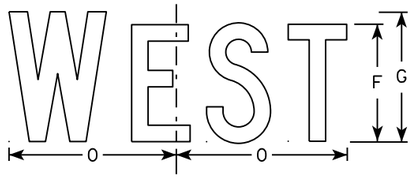
MB3-2
MK3-2
MN3-2



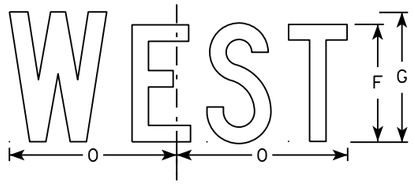
M3-3
MM3-3
MP3-3



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

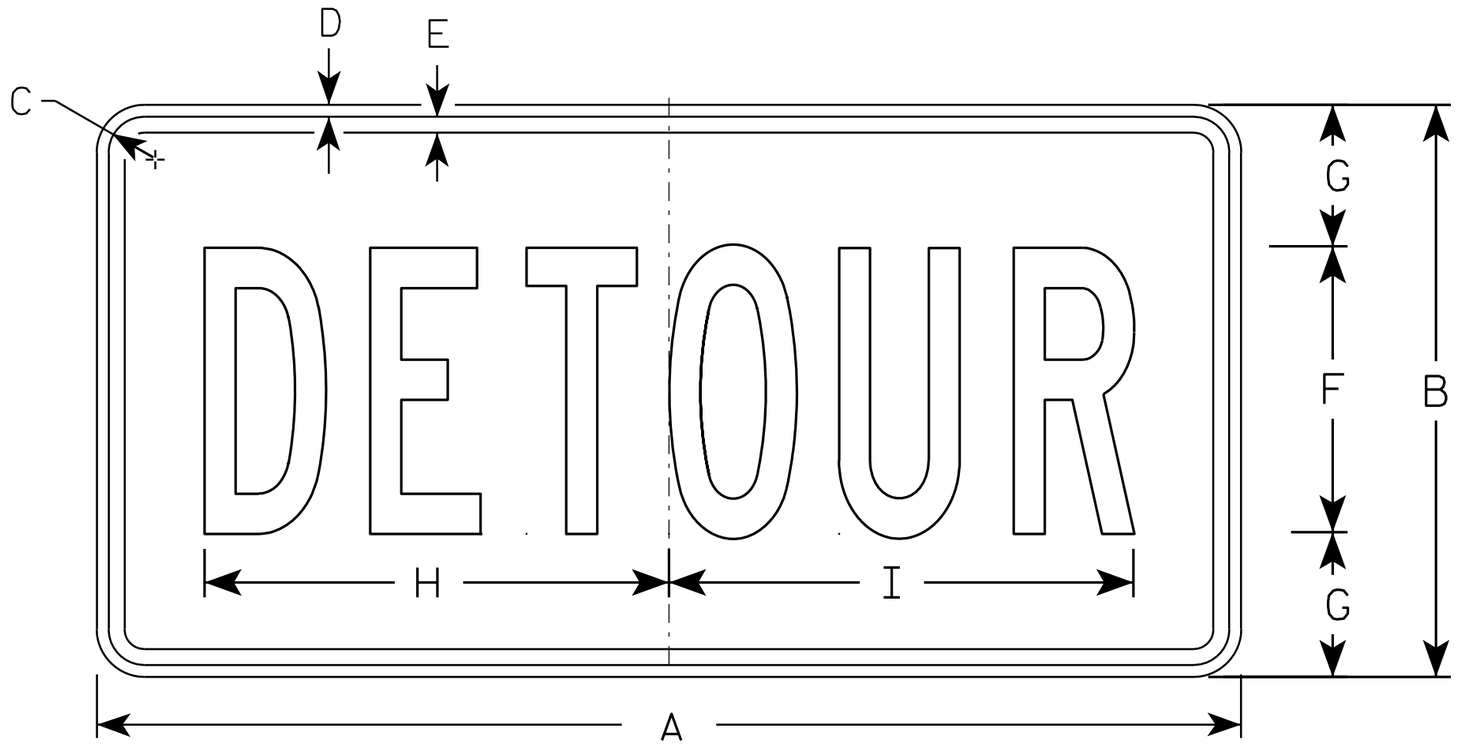
WISCONSIN DEPT OF TRANSPORTATION

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



M4-8

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																											

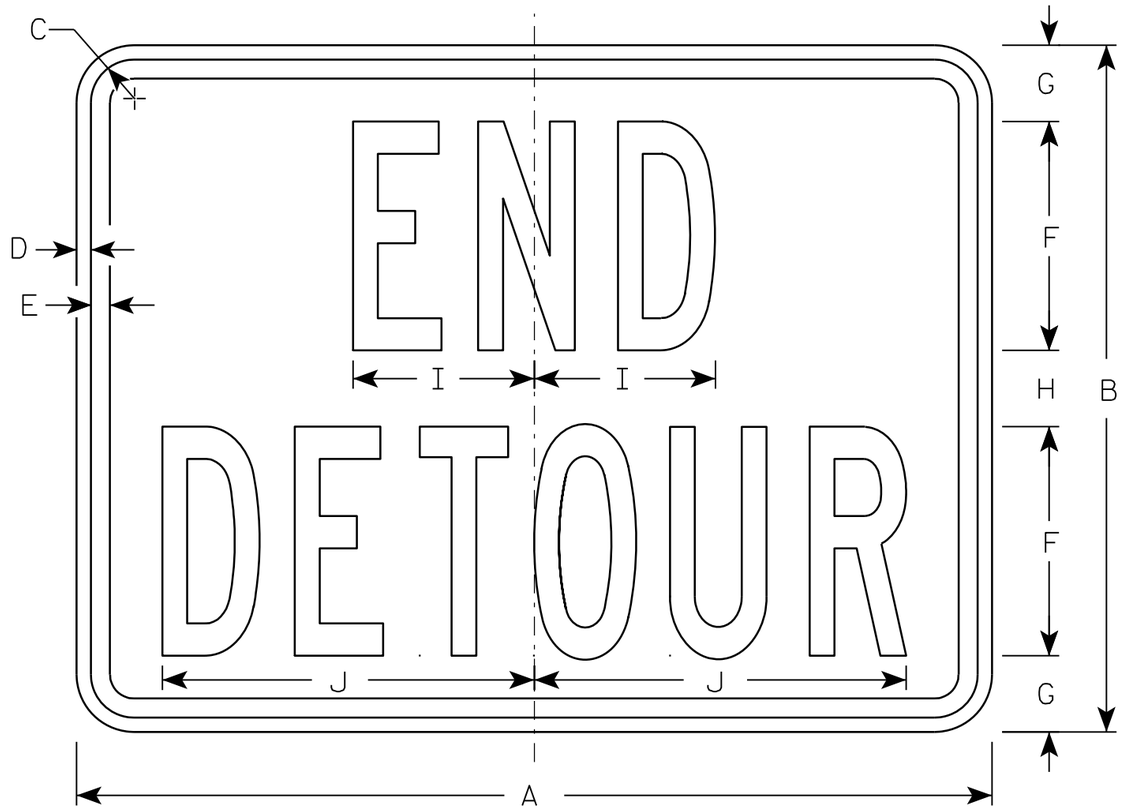
STANDARD SIGN
M4-8

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: 249	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																											

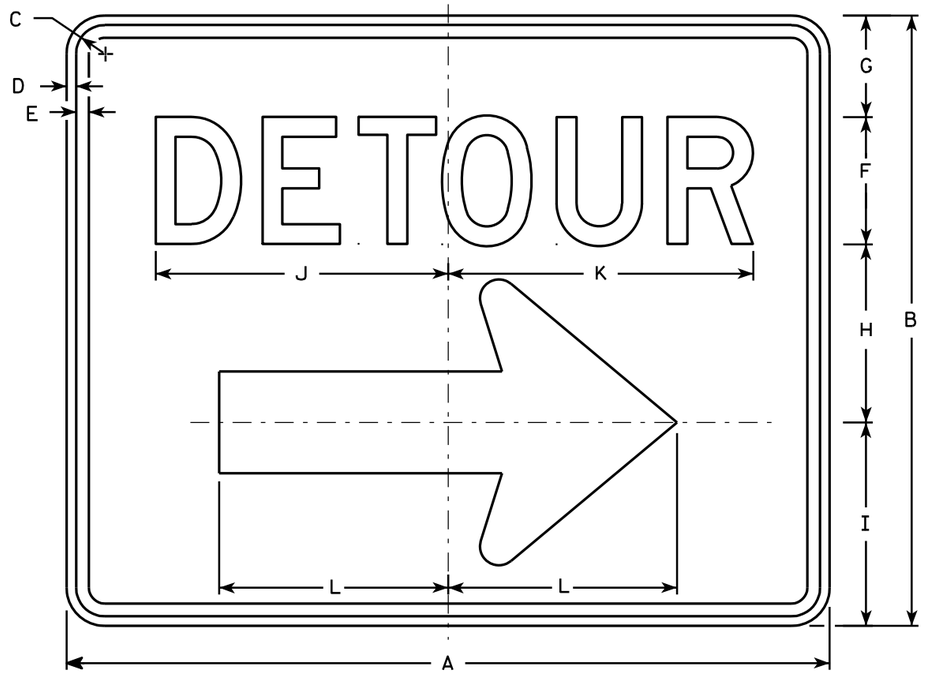
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

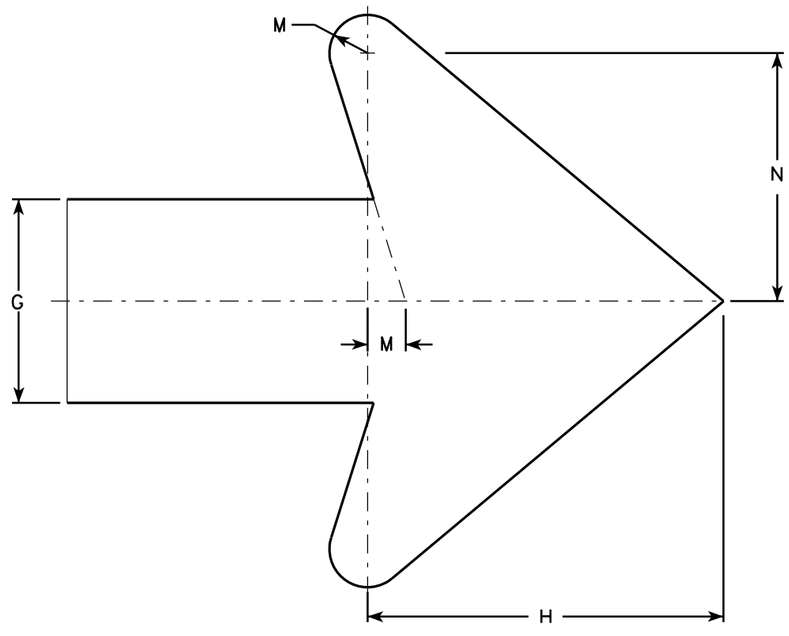
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 250	E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

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

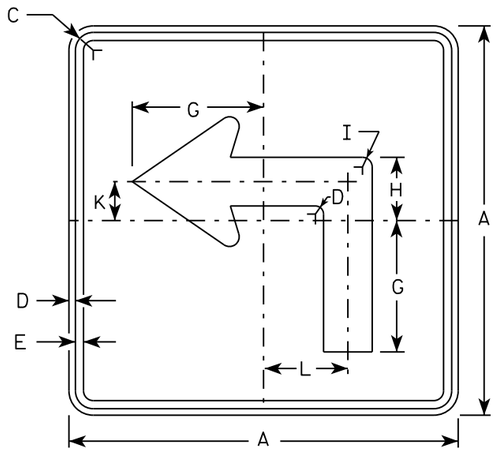
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

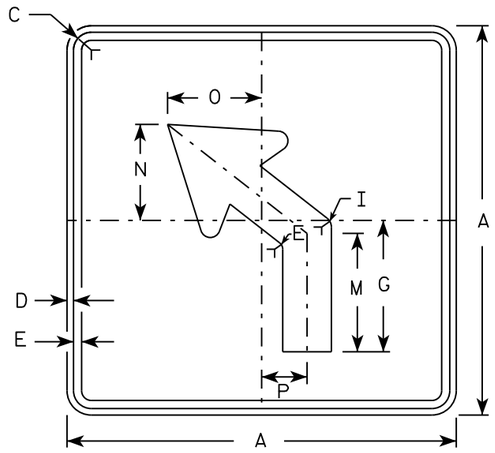
APPROVED Matthew R Rauch
for State Traffic Engineer

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

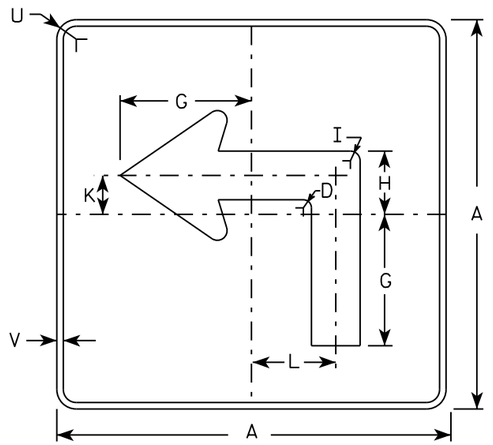
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 251	E



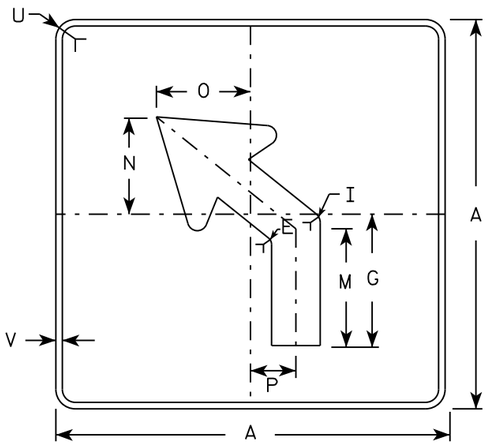
M5-1L
MM5-1L
MO5-1L
MP5-1L



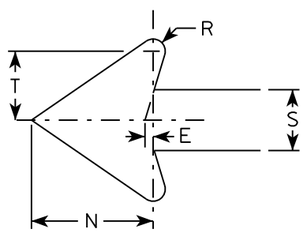
M5-2L
MM5-2L
MO5-2L
MP5-2L



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



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



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

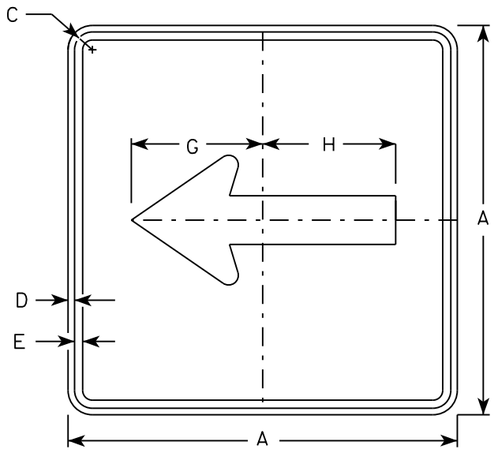
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

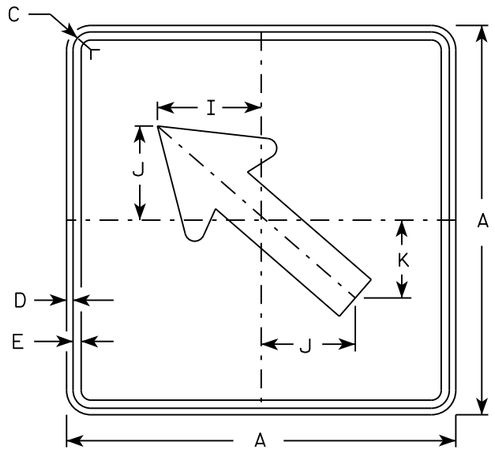
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



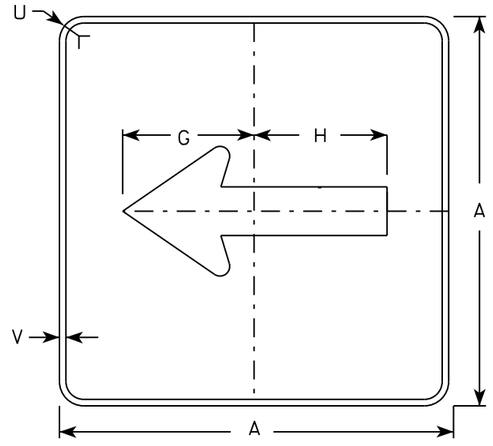
M6-1
MM6-1
MO6-1
MP6-1



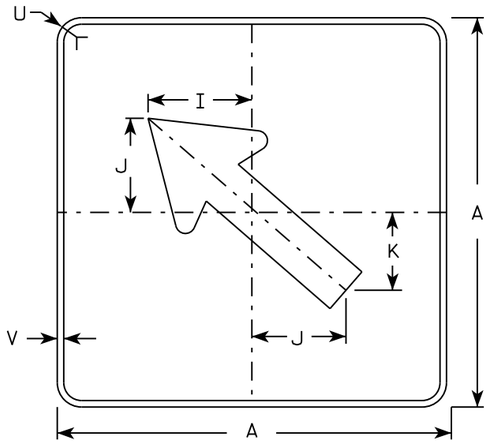
M6-2
MM6-2
MO6-2
MP6-2

NOTES

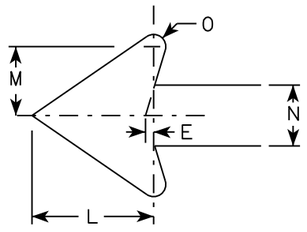
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



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



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

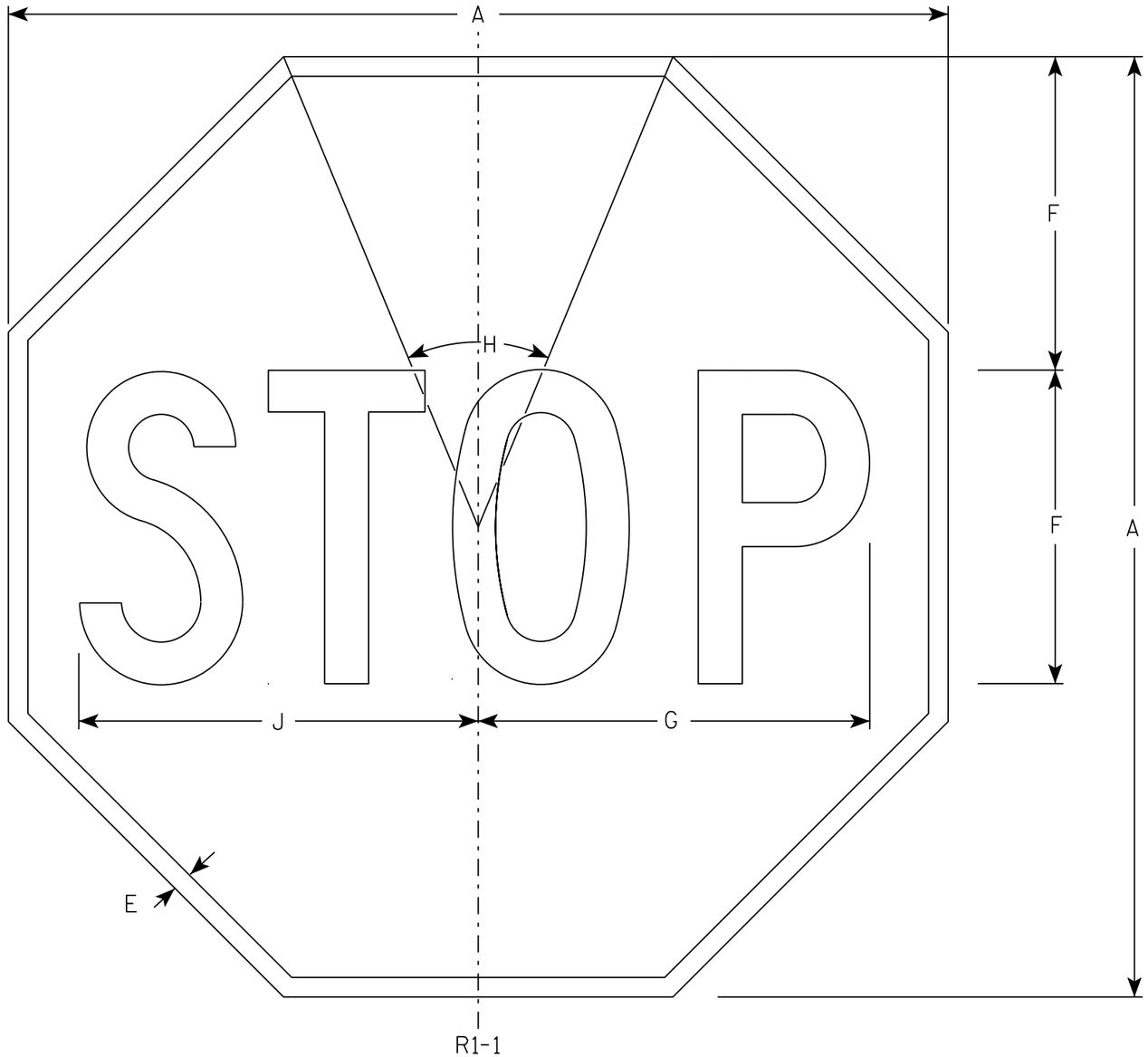
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 253 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



R1-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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

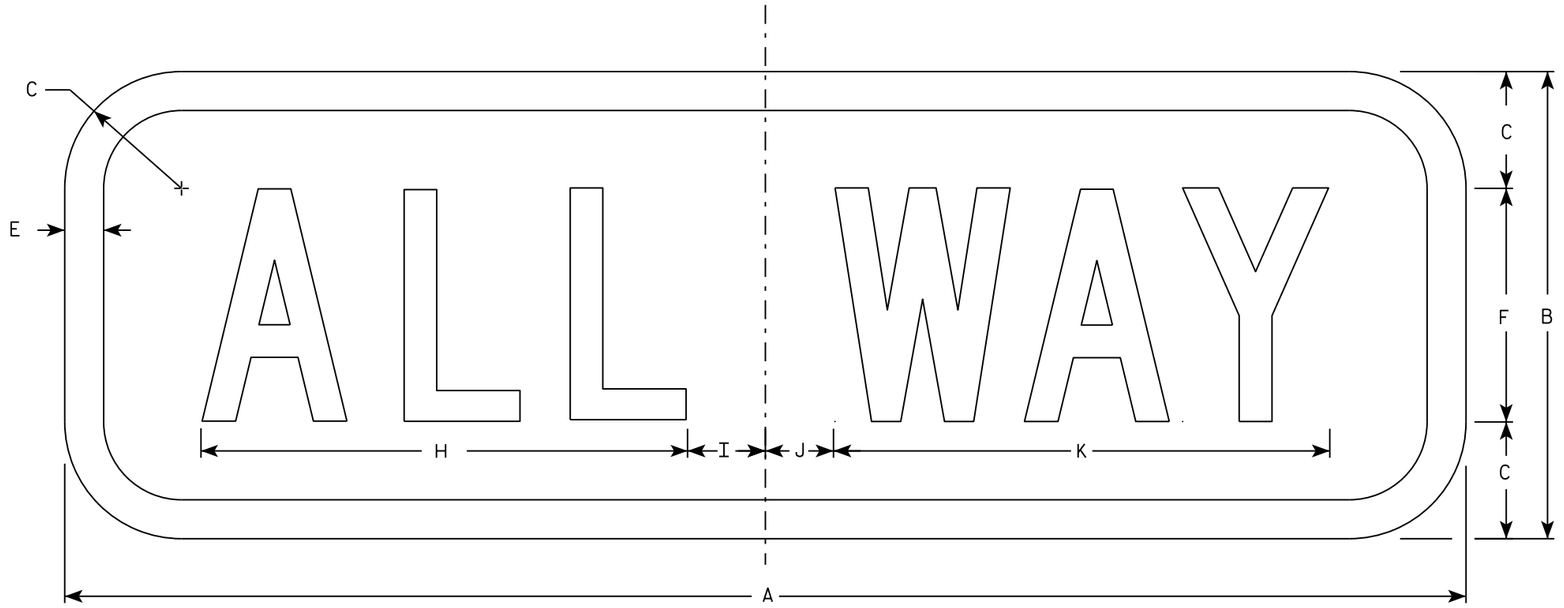
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE 254 R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.378143:1.000000



R1-3P

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
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	18	6	1 ½		½	3		6 ¼	1 ¼	⅞	6 ⅜																0.75
2S	18	6	1 ½		½	3		6 ¼	1 ¼	⅞	6 ⅜																1.5
2M	24	9	1 ½		½	5		9 ¼	1 ¼	¾	9 ¾																1.5
3	24	9	1 ½		½	5		9 ¼	1 ¼	¾	9 ¾																1.5
4	30	12	2 ¼		⅝	6		11	2 ¼	1 ½	11 ¾																2.5
5	30	12	2 ¼		⅝	6		11	2 ¼	1 ½	11 ¾																2.5

STANDARD SIGN
R1-3P

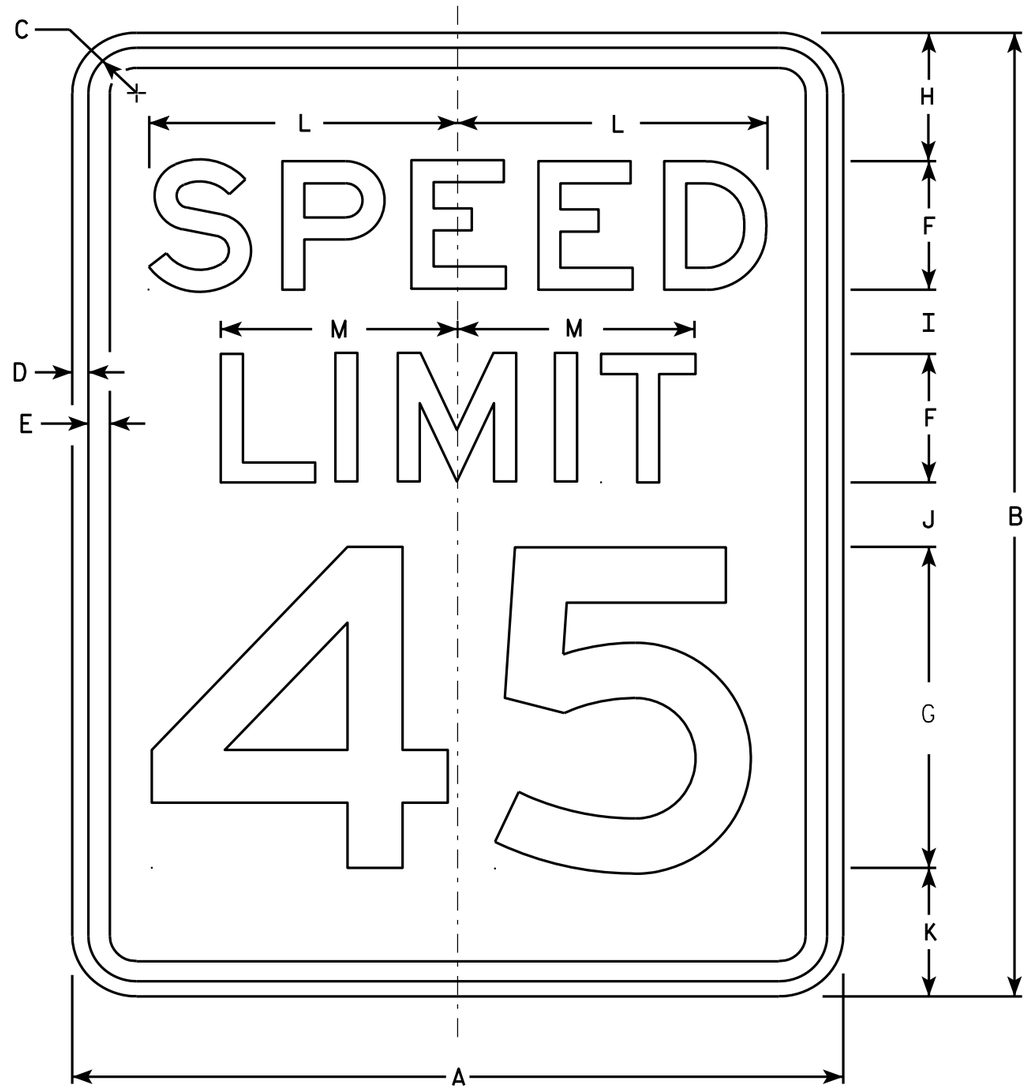
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/24/15 PLATE no. R1-3P.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R13P.DGN PLOT DATE : 01-DEC-2015 18:08 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 1.945842:1.000000



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

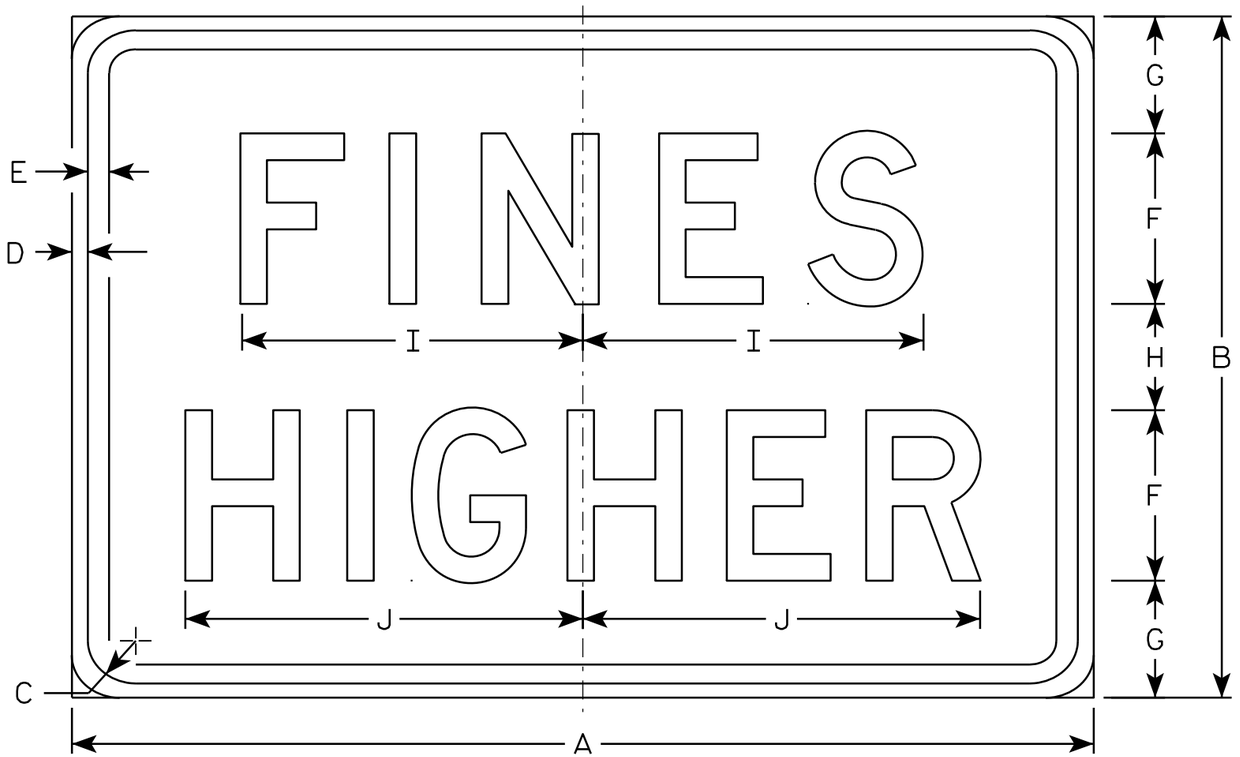
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 256 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000

WISDOT/CADDS SHEET 42



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

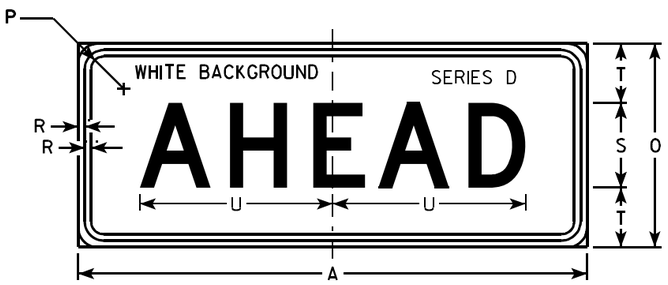
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 257 | E

7

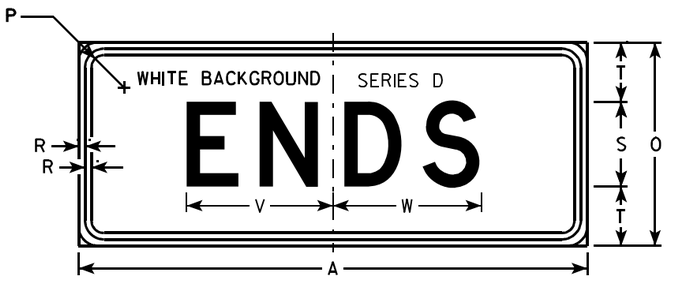
R3-17

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - AS SHOWN
   Message - BLACK
3. Message Series - C or as noted on the Signs.
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.



R3-17ap



R3-17bp

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	R3-17 Area sq. ft.	R3-17ap Area sq. ft.	R3-17bp Area sq. ft.
1																													
2S	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
2M	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
3																													
4																													
5																													

STANDARD SIGN
R3-17 & R3-17a&bp

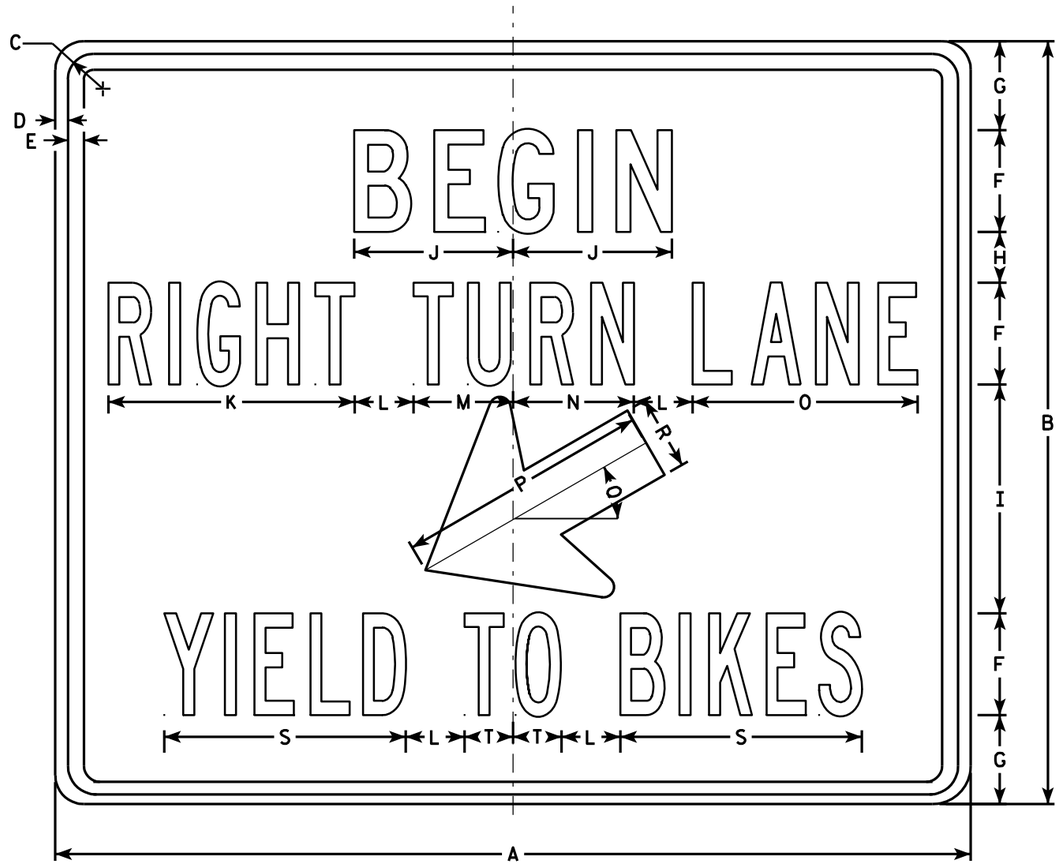
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/12/2011 PLATE NO. R3-17.2

PROJECT NO:

SHEET NO: 258 E



R4-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series C
   Lines 2 & 3 are Series B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	30	1 3/8	1/2	5/8	4	3 1/2	2	9	6 1/4	9 3/4	2 3/8	3 7/8	4 3/4	8 7/8	10	30°	2 7/8	9 1/2	1 7/8							7.5
2M	36	30	1 3/8	1/2	5/8	4	3 1/2	2	9	6 1/4	9 3/4	2 3/8	3 7/8	4 3/4	8 7/8	10	30°	2 7/8	9 1/2	1 7/8							7.5
3																											
4																											
5																											

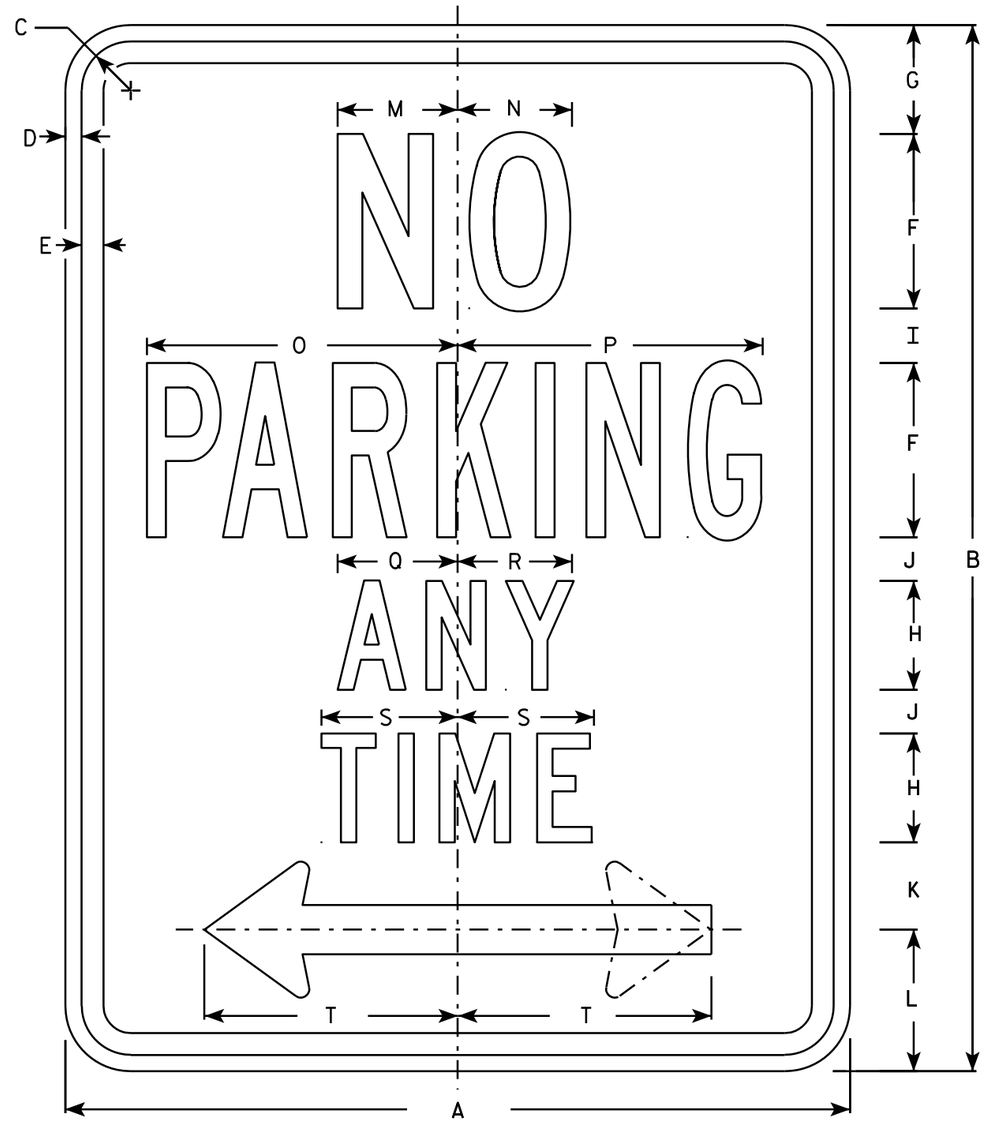
STANDARD SIGN
R4-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew L Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-4.2

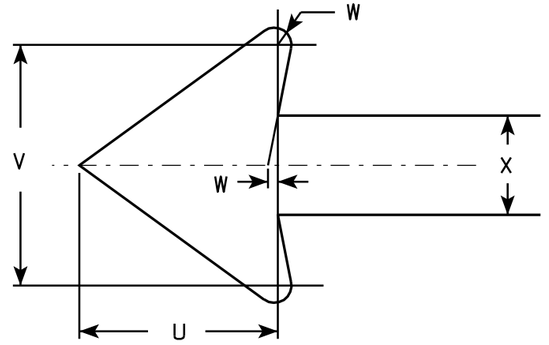
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 259 | E



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																											

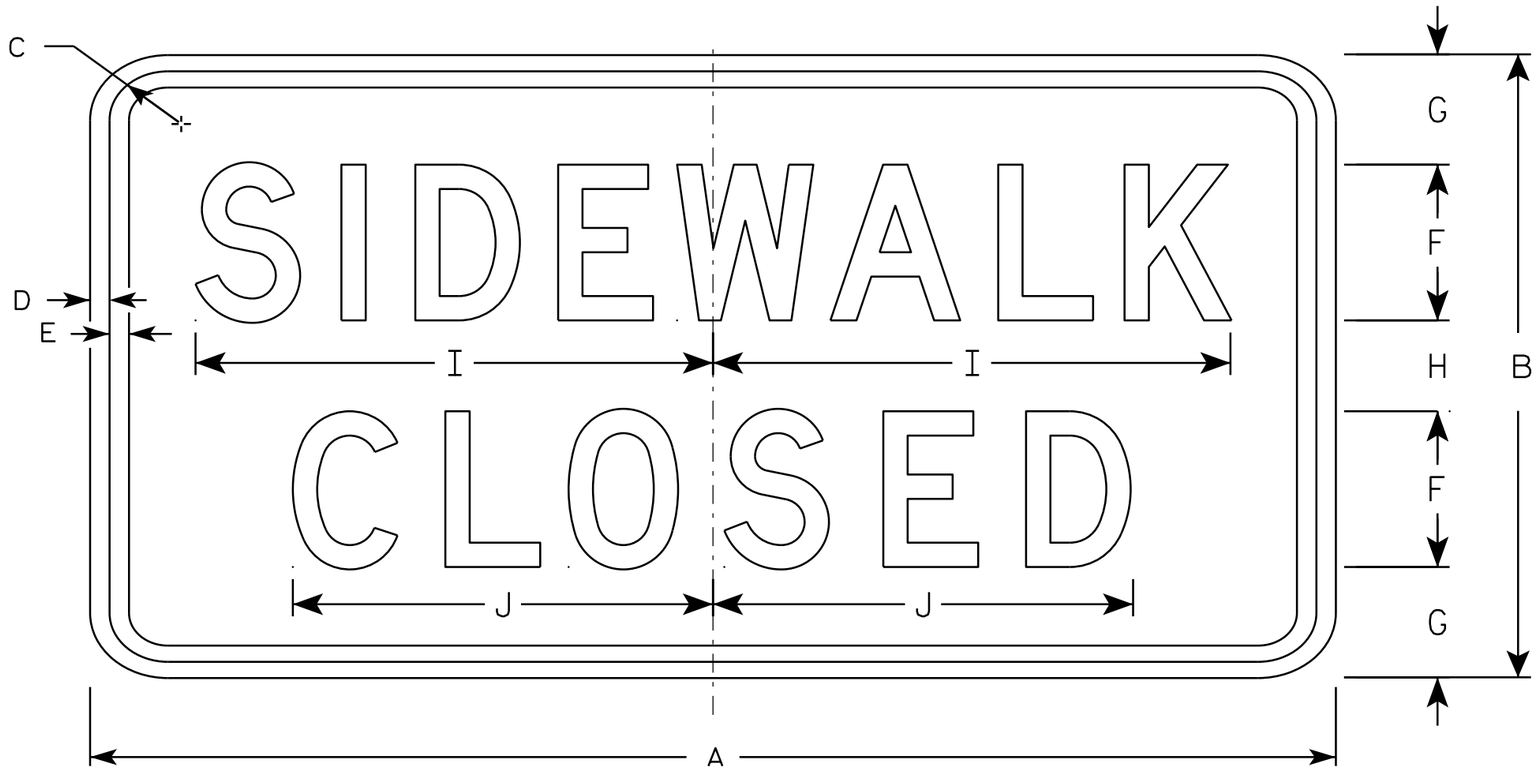
STANDARD SIGN
R7-1

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: 260 | E



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.

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

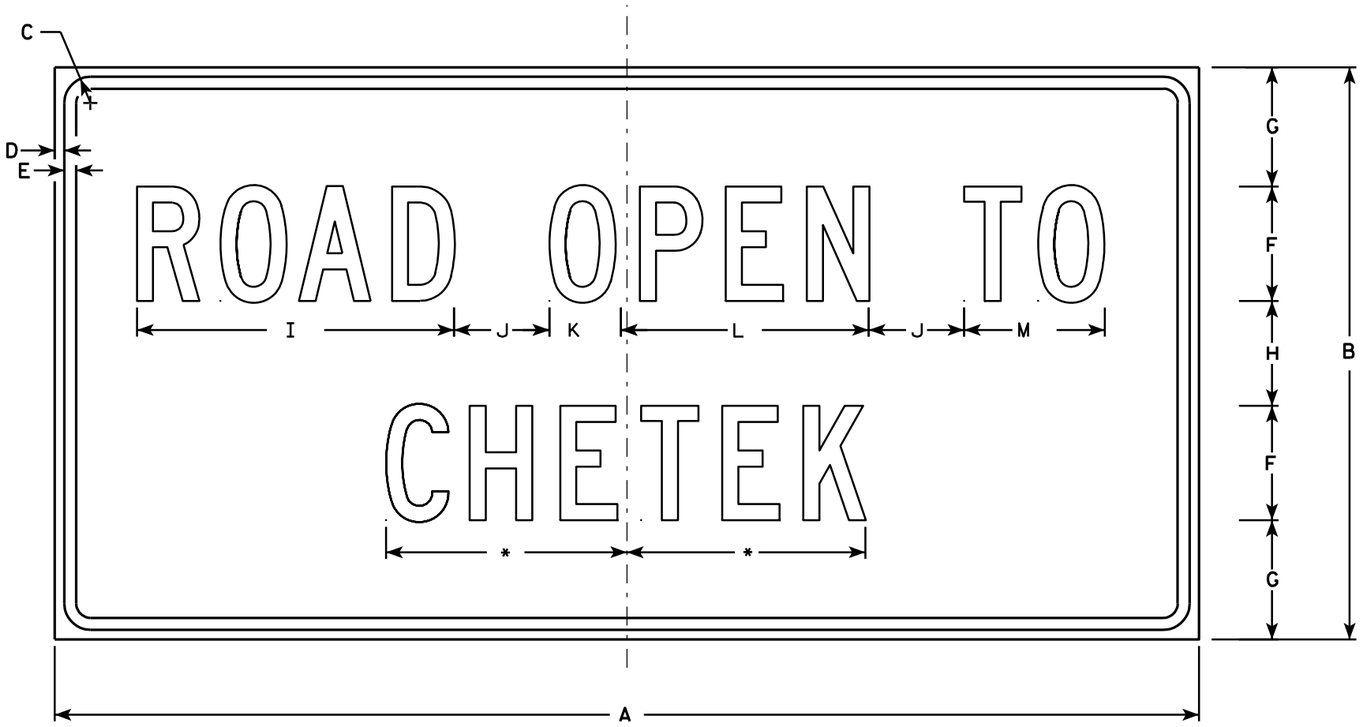
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE R9-9.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 10-MAR-2016 15:44 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 2.918761:1.000000
WISDOT/CADDS SHEET 42



R10-61

NOTES

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

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

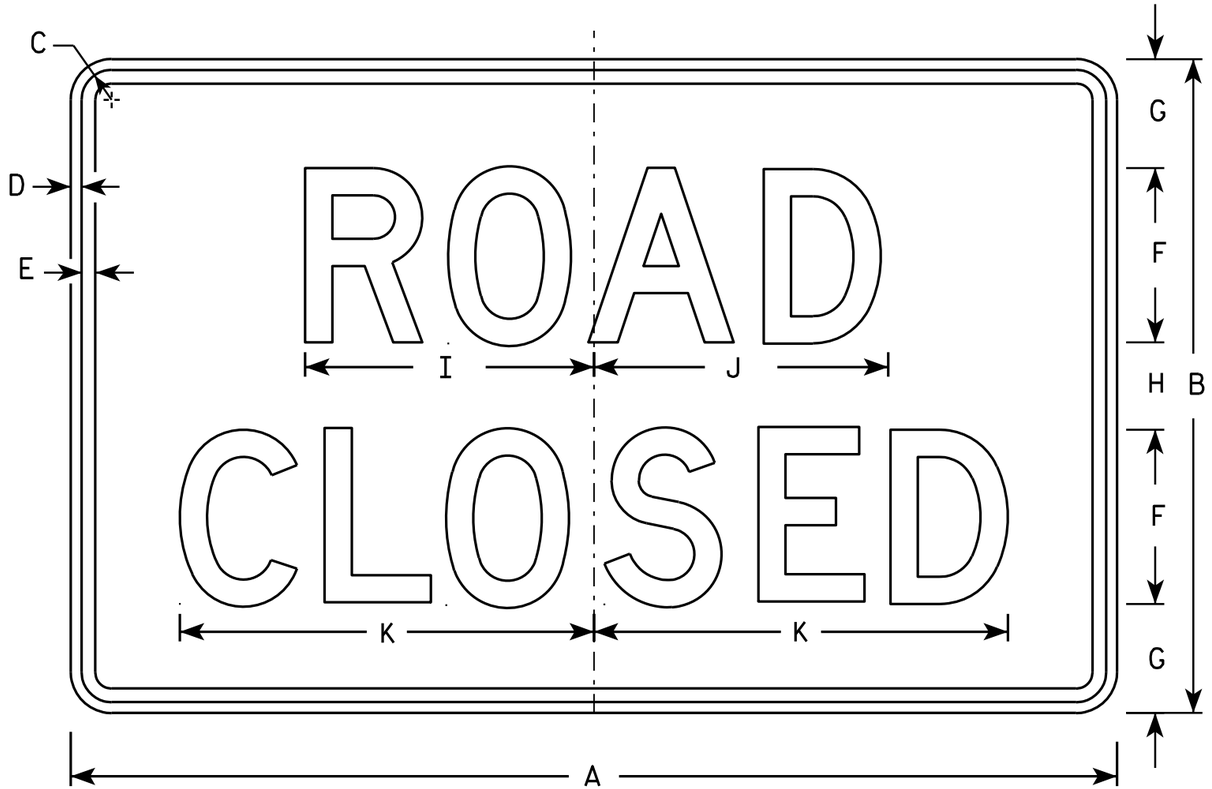
STANDARD SIGN
R10-61

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/4/11 PLATE NO. R10-61.5

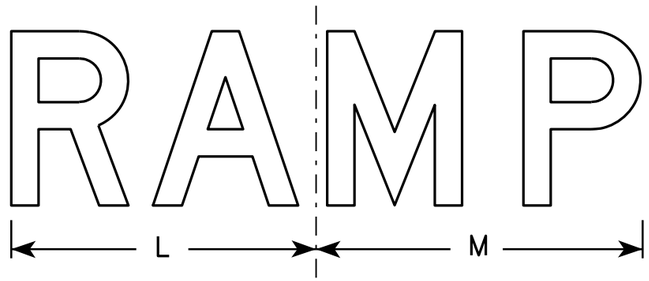
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 262 | E



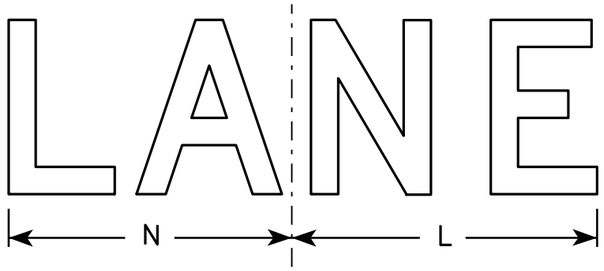
R11-2

NOTES

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



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

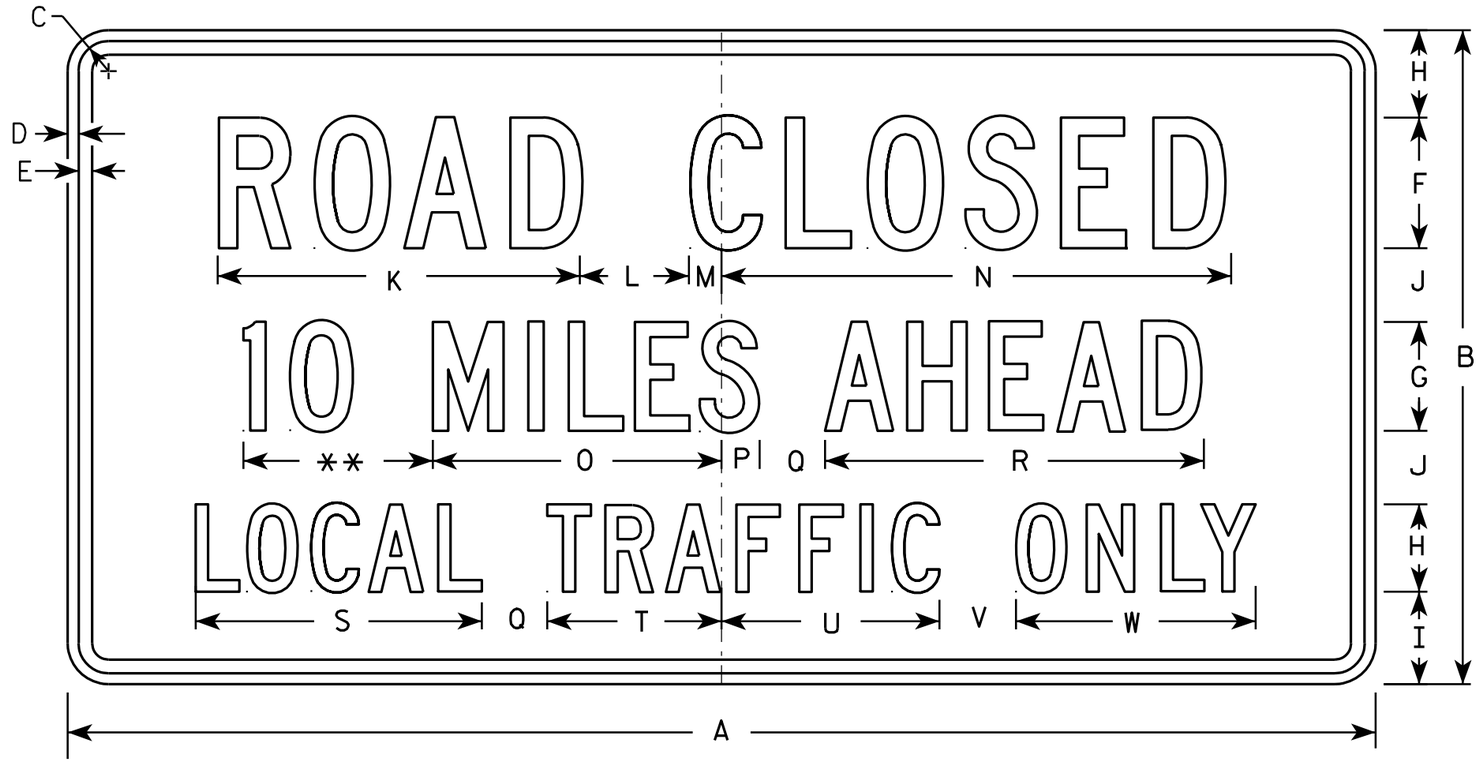
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 263	E



R11-3

NOTES

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

** See Note 5

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

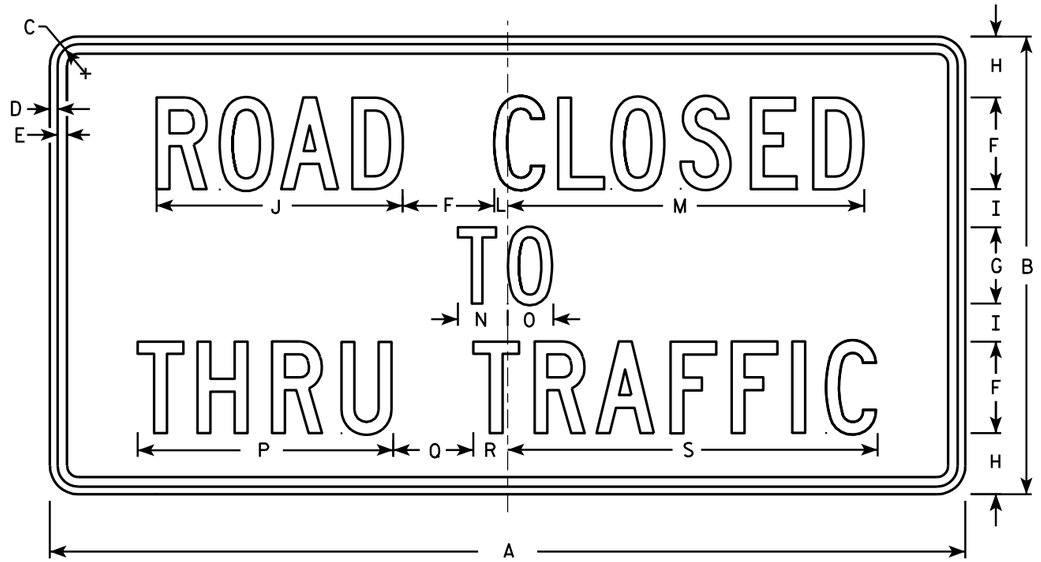
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-3.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 264	E



R11-4

NOTES

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

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

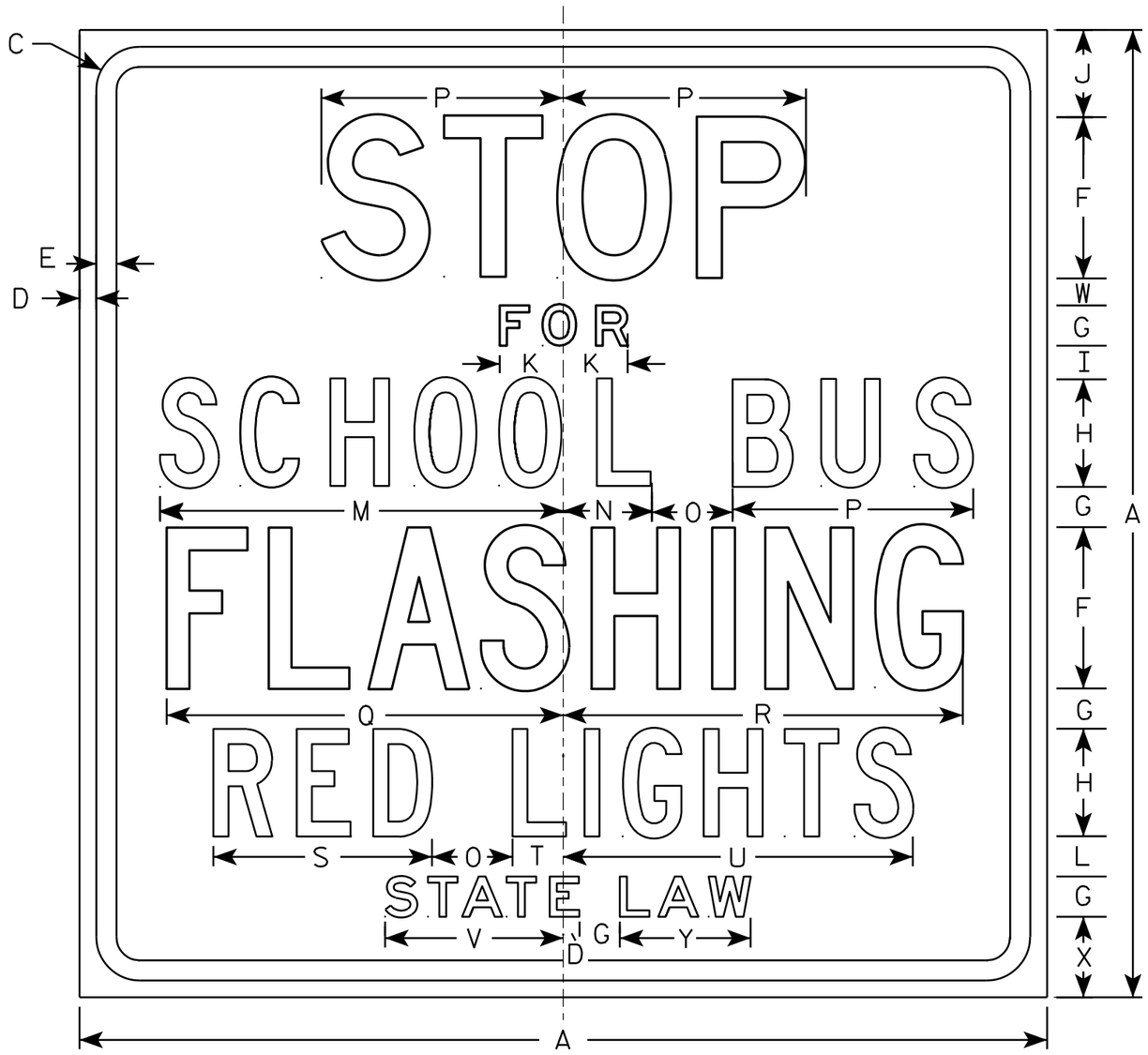
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 265 | E



R59-51

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D
   Lines 2 & 6 are Series E
   Line 3, 4 & 5 are Series C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
2M	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
3	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
4	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
5																											

STANDARD SIGN
R59-51

WISCONSIN DEPT OF TRANSPORTATION

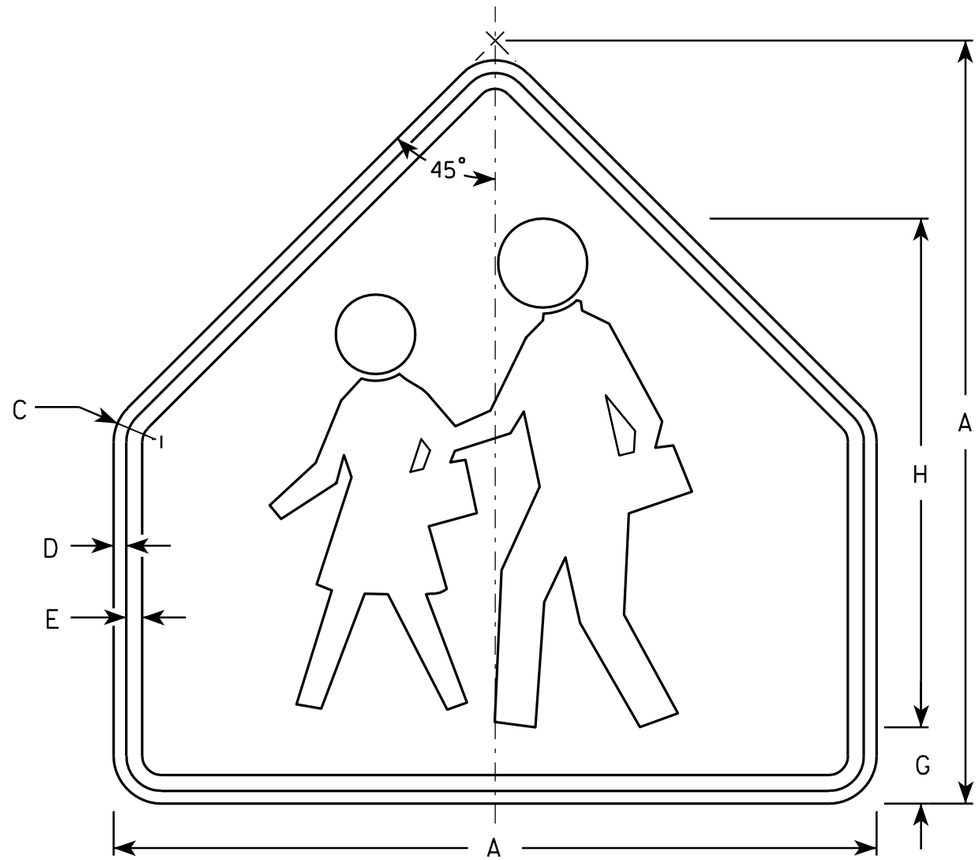
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/30/11 PLATE NO. R59-51.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 266 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R5951.DGN 30-MAR-2011 09:59 PLOT DATE : 30-MAR-2011 09:59 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.287650:1.000000
WISDOT/CADDS SHEET 42



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																											

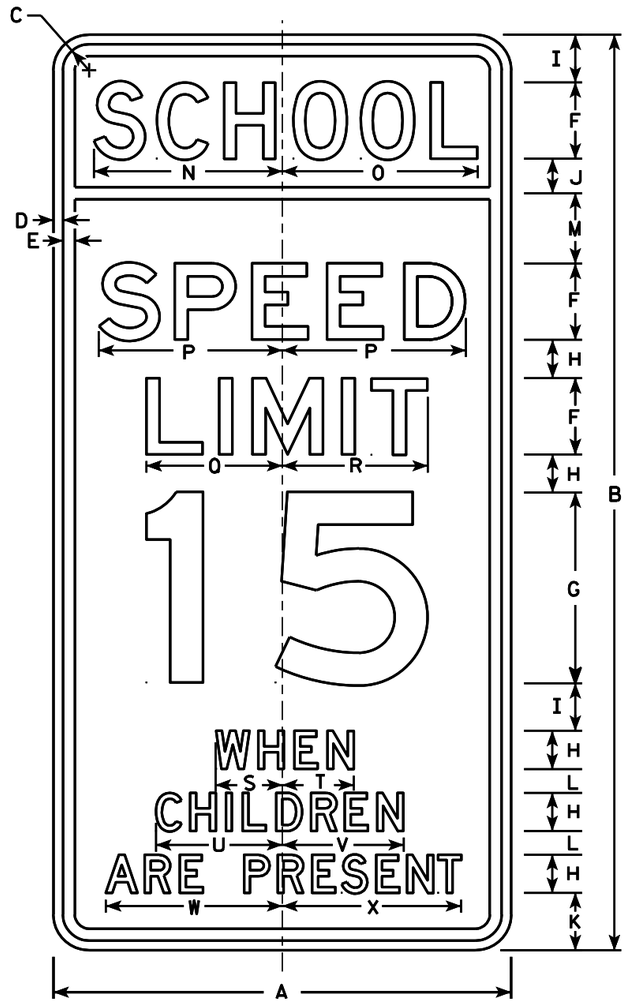
STANDARD SIGN
S1-1

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: 267	E



S4-51

NOTES

1. Sign is Type II - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. (See note 5).
2. Color:
   Background - See note 5
   Message - Black
3. Message Series - See note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Top panel (SCHOOL) background - Yellow Green -Type F Reflective.
   Lower panel background - White -Type H Reflective.
6. From top to bottom:
   Lines 1, 5, 6 & 7 are series D
   Lines 2, 3 & 4 are series E
7. Line 4 substitute appropriate numerals and adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 1200 mm
3	900 mm X 1800 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	48	1 3/8	1/2	5/8	4	10	2	2 1/2	1 3/4	3	1 1/4	3 3/4	9 7/8	10 1/4	9 5/8	7 1/8	7 5/8	3 1/2	3 3/8	6 5/8	6 3/8	9 1/4	9 3/8			8.00	0.72
3	36	72	2 1/4	3/4	1	6	15	3	3 3/4	2 3/4	4 1/2	1 7/8	5 1/2	15	15 1/4	14 1/2	11 1/4	11 1/2	5 1/2	5 3/4	10	9 3/4	14	14 1/8			18.00	1.62
4																												
5																												

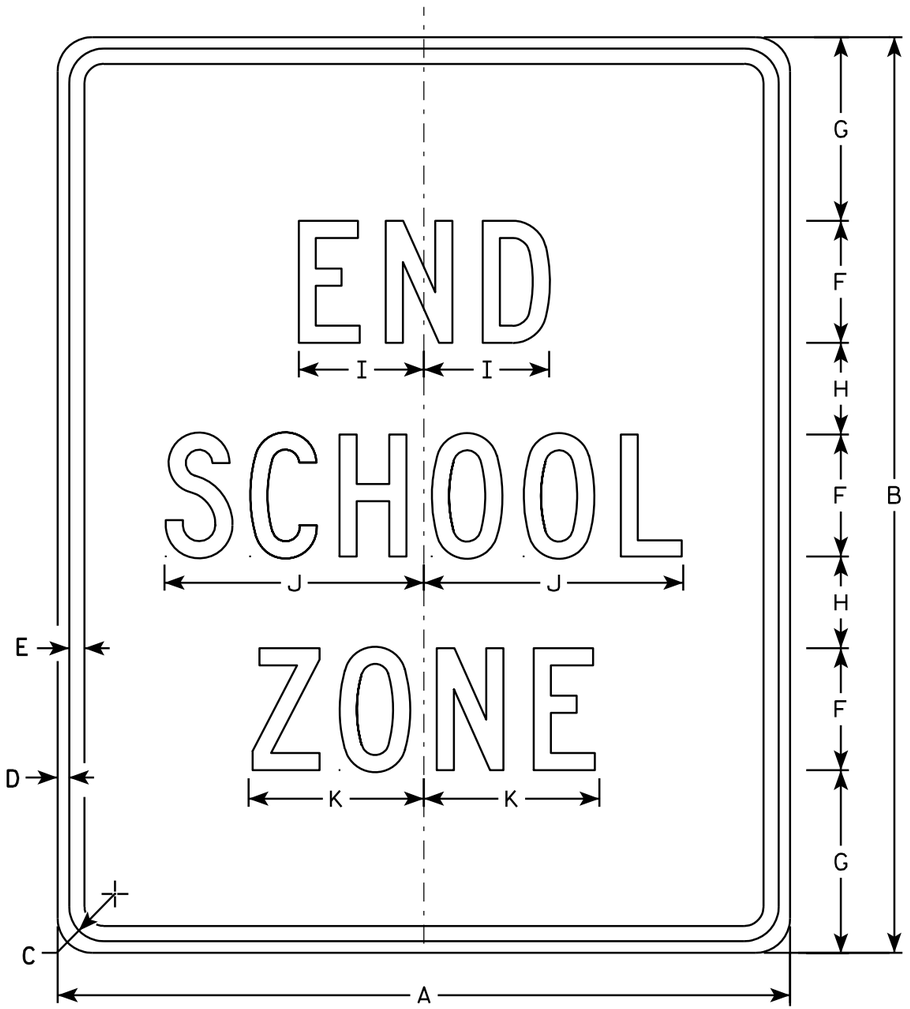
STANDARD SIGN
S4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/26/10 PLATE NO. S4-51.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 268	E



S5-2

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	30	1 1/8	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
3	36	42	1 5/8	5/8	3/4	6	7	5	6 1/8	12 5/8	8 5/8																10.5
4																											
5																											

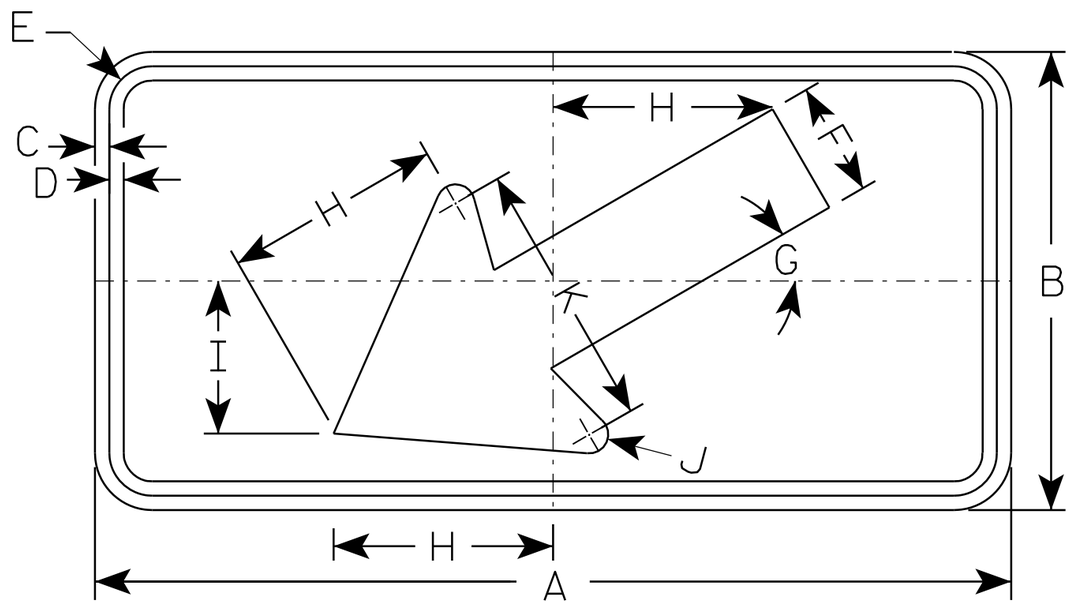
STANDARD SIGN
S5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/8/11 PLATE NO. S5-2.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 269 | 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																											

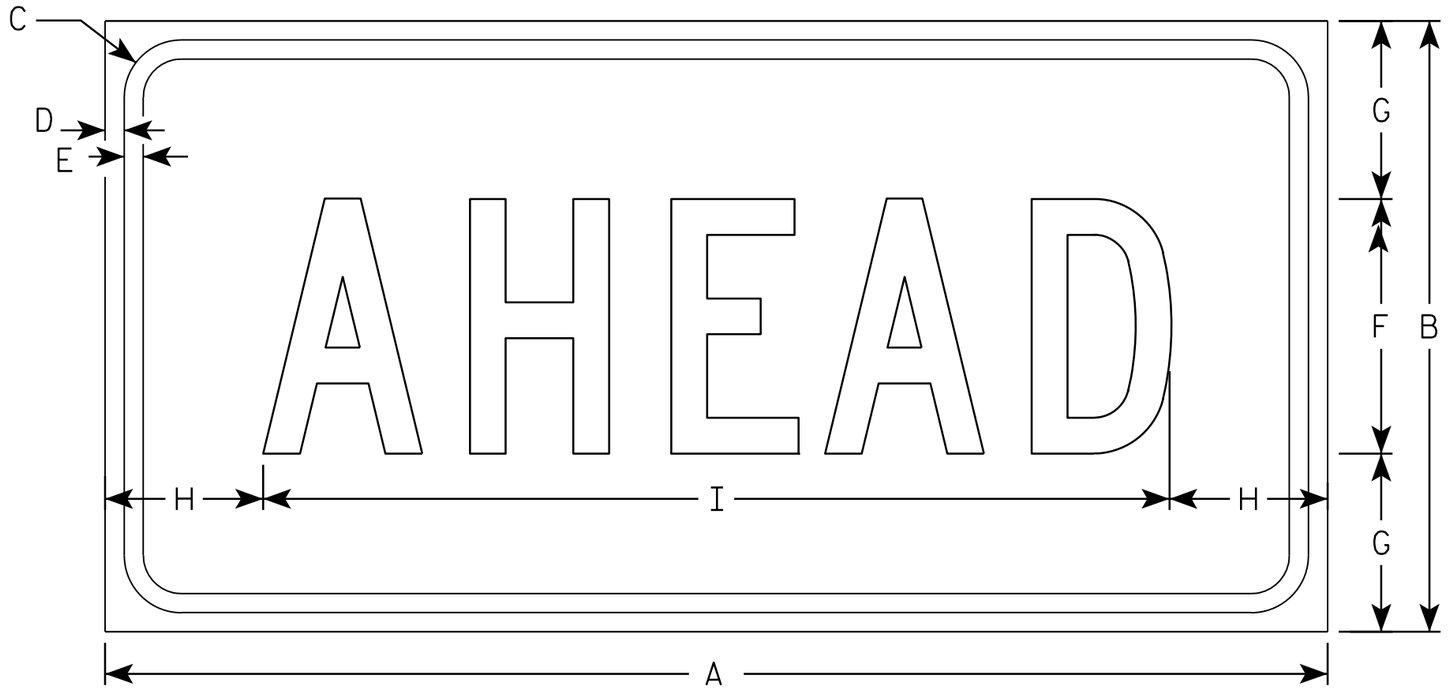
STANDARD SIGN
S16-7

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: 270 | E



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

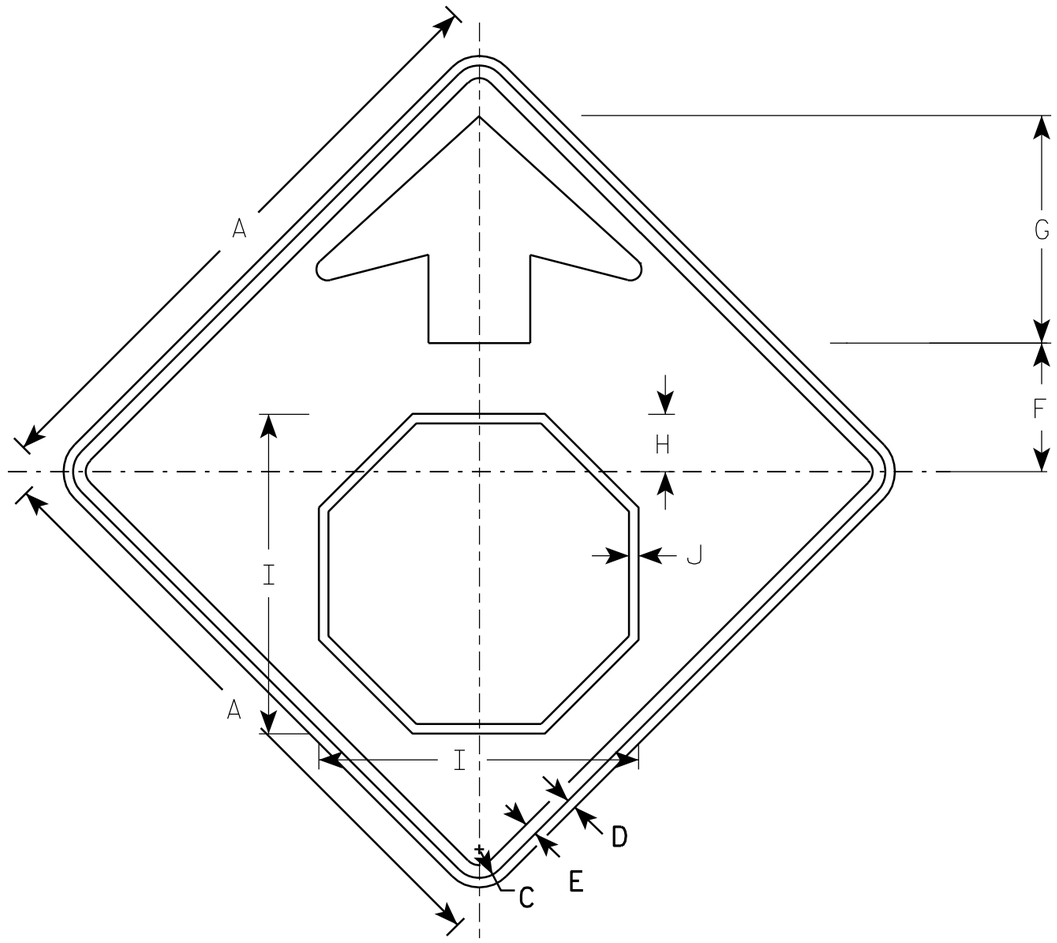
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-9P.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 271 | E

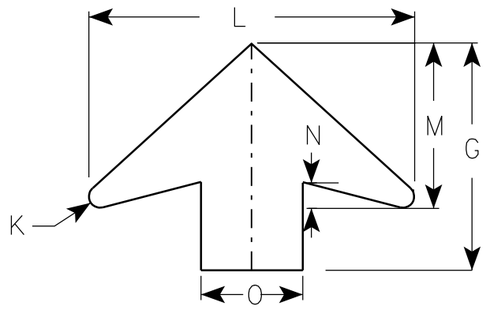
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\S169P.dgn PLOT DATE : 22-JUL-2013 10:32 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 2.977140:1.000000
WISDOT/CADDS SHEET 42



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

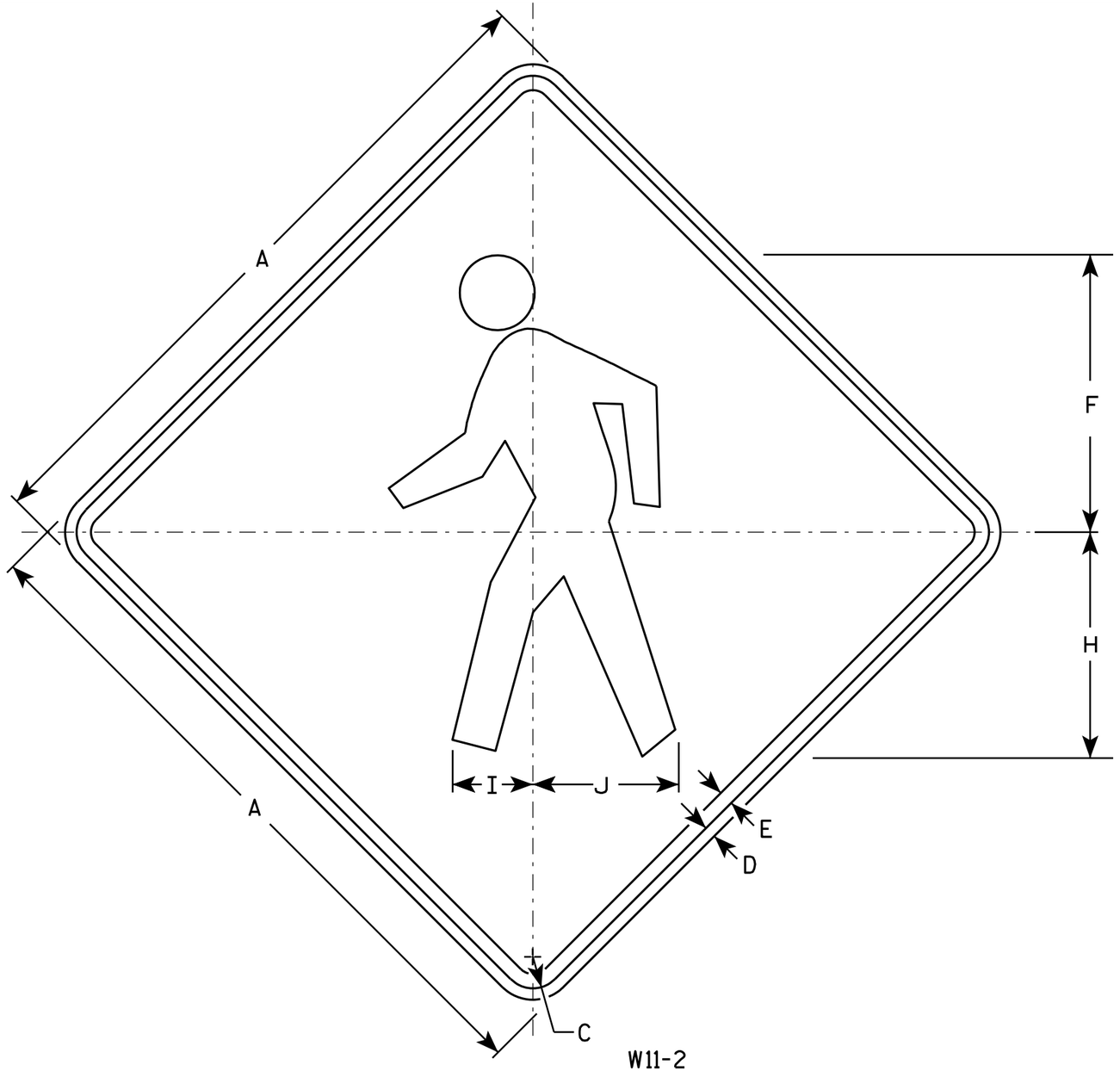
SHEET NO: 272 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W31.DGN PLOT DATE : 07-JUN-2010 12:59 PLOT BY : ditjph

WISDOT/CADDS SHEET 42

7

7



W11-2

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

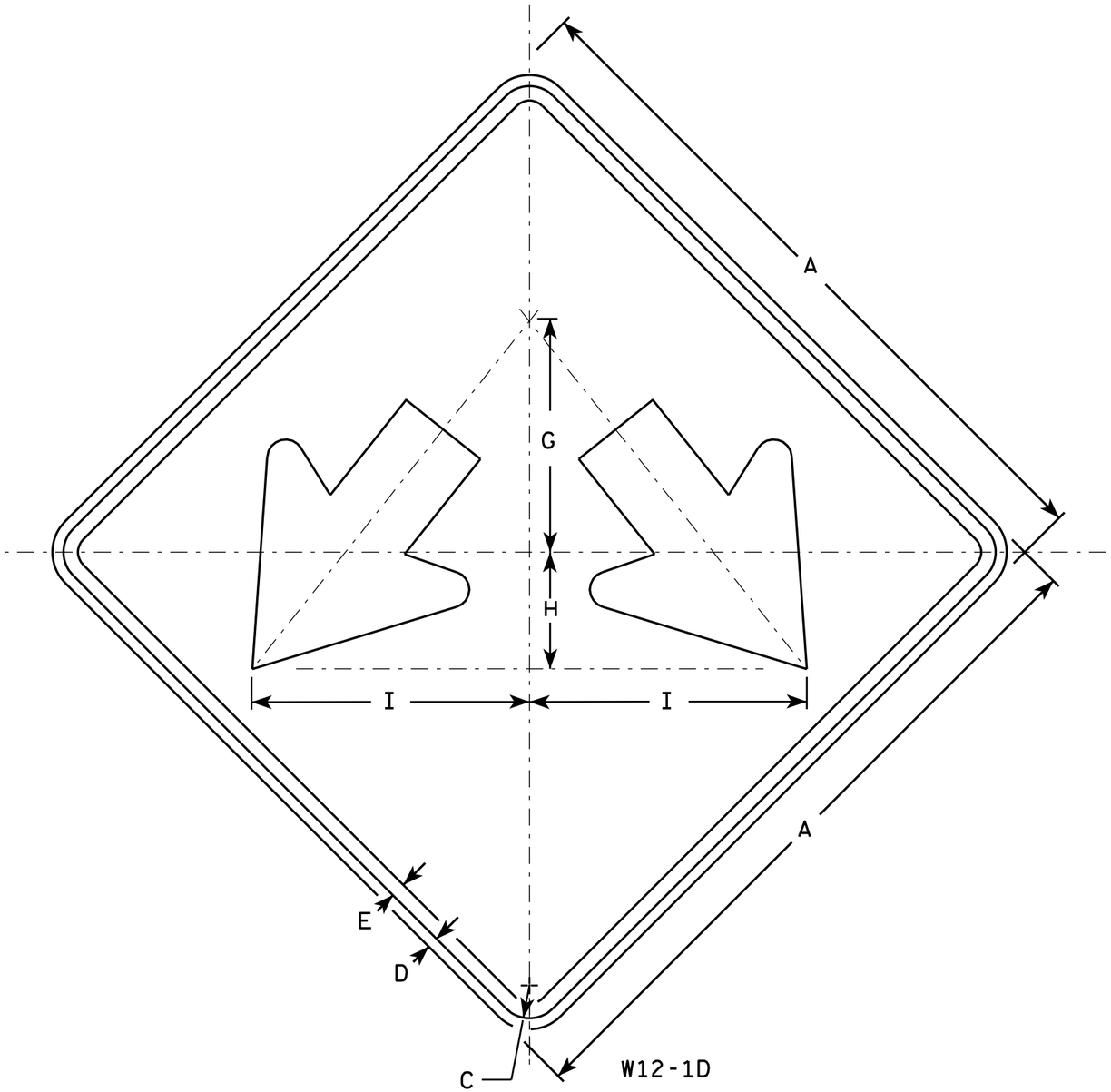
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

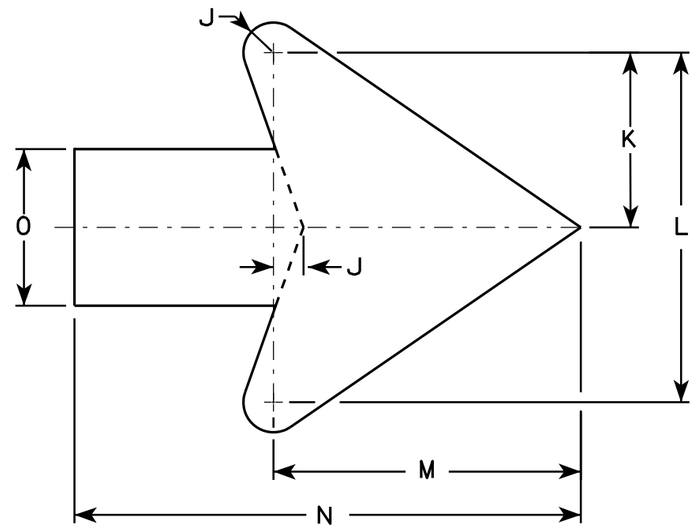
DATE 6/7/10 PLATE NO. W11-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 273	E



NOTES

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



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		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 274	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W121D.DGN PLOT DATE : 13-MAR-2013 13:26 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 4.713802:1.000000

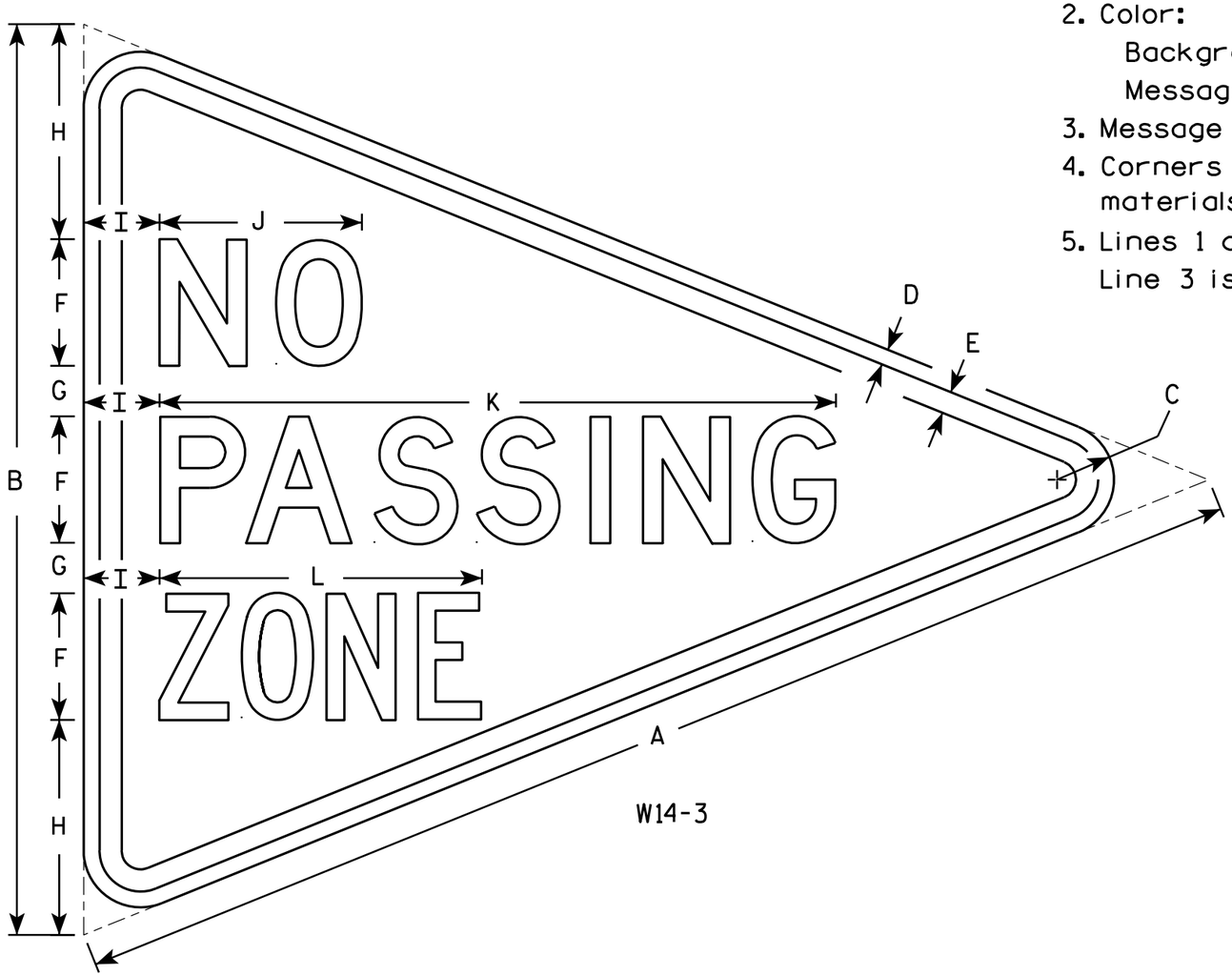
WISDOT/CADDS SHEET 42

7

7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See note 5
4. Corners and borders shall be rounded on all base materials for this sign.
5. Lines 1 and 2 are Series D.
   Line 3 is series C.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

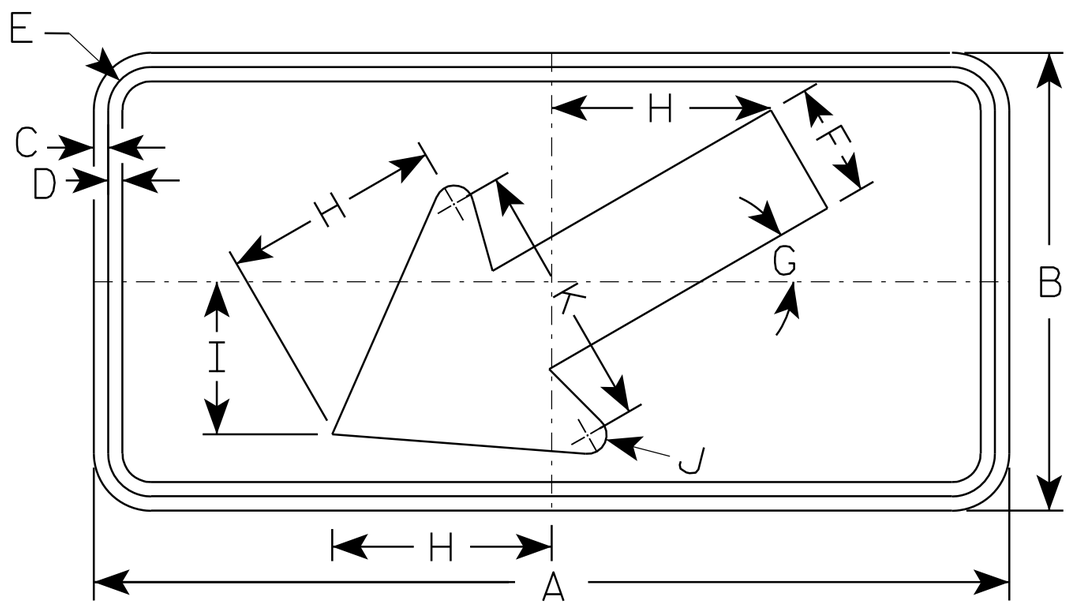
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 275	E



W16-7L

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W16-7R is the same as W16-L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4																											8
5																											8

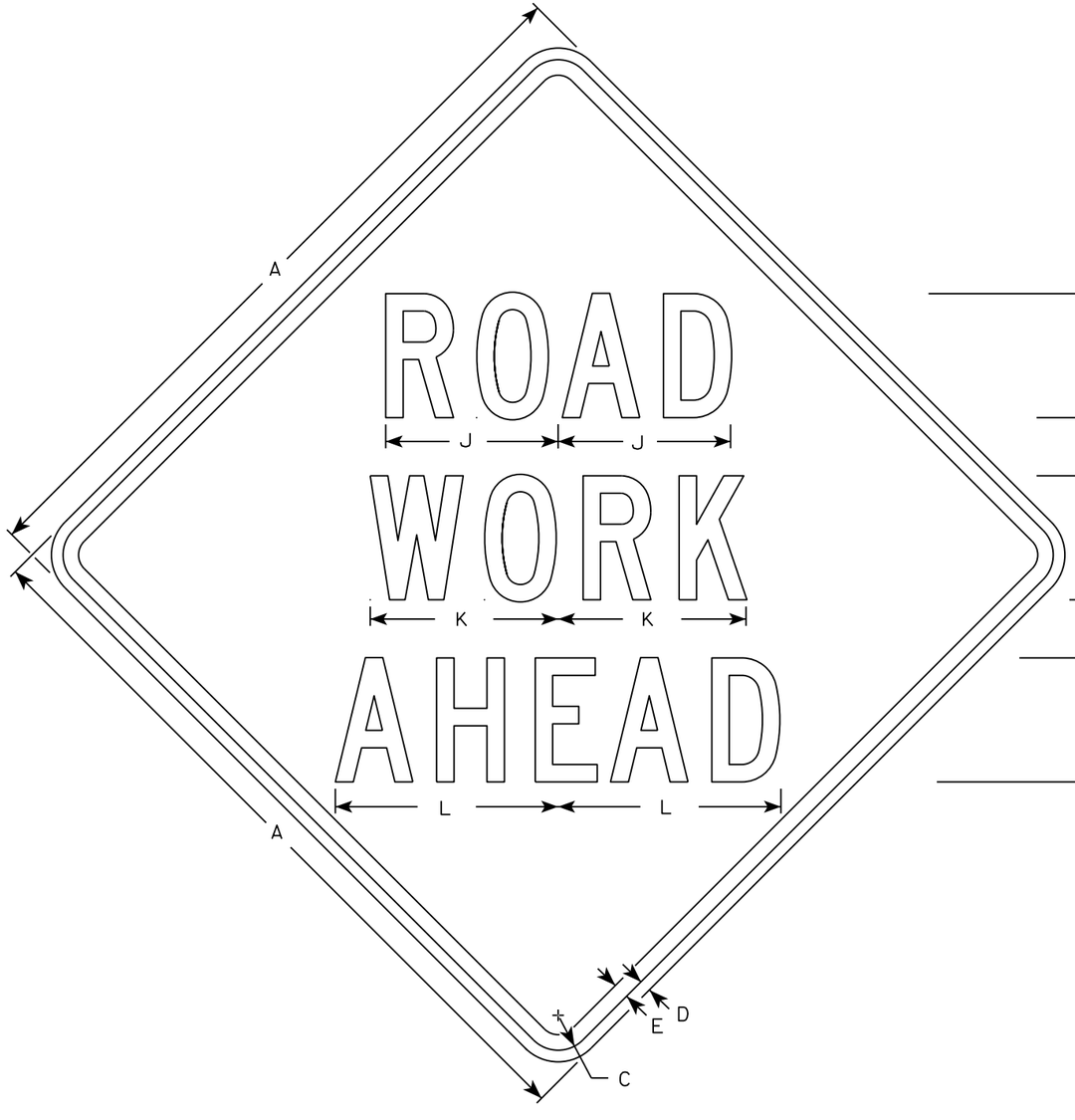
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

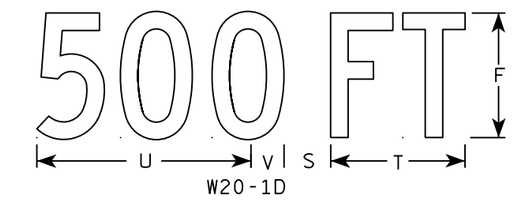
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. W16-7.5

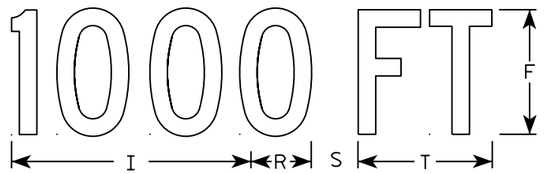
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 276	E



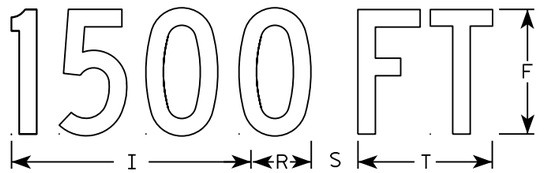
W20-1A



W20-1D

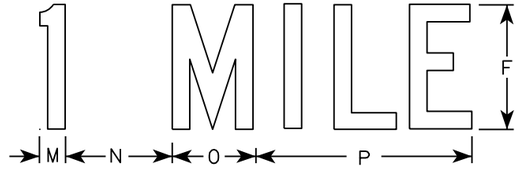


W20-1C

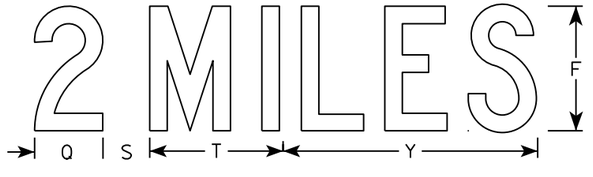


W20-1B

W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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

WISCONSIN DEPT OF TRANSPORTATION

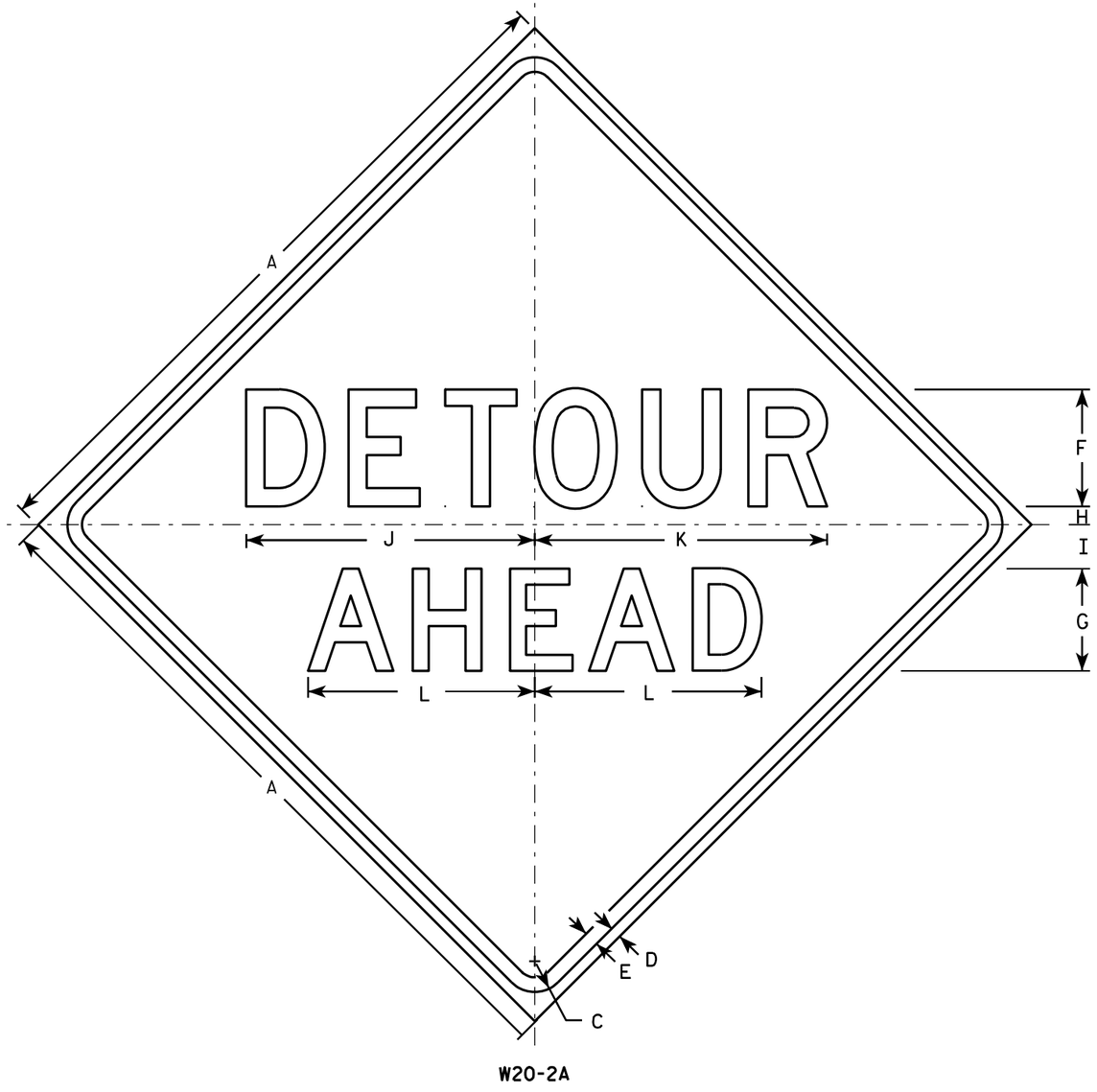
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

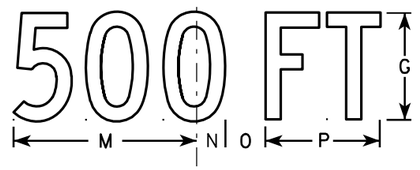
PROJECT NO:

SHEET NO: E

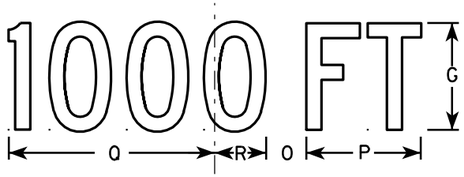
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



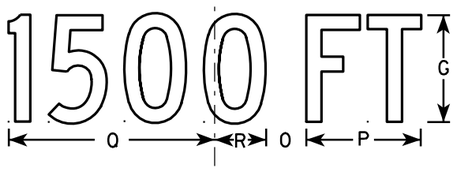
W20-2A



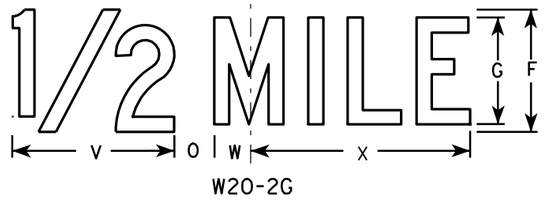
W20-2D



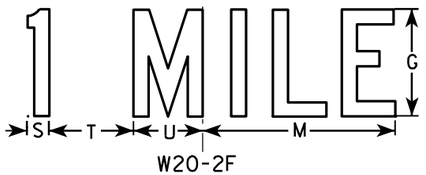
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

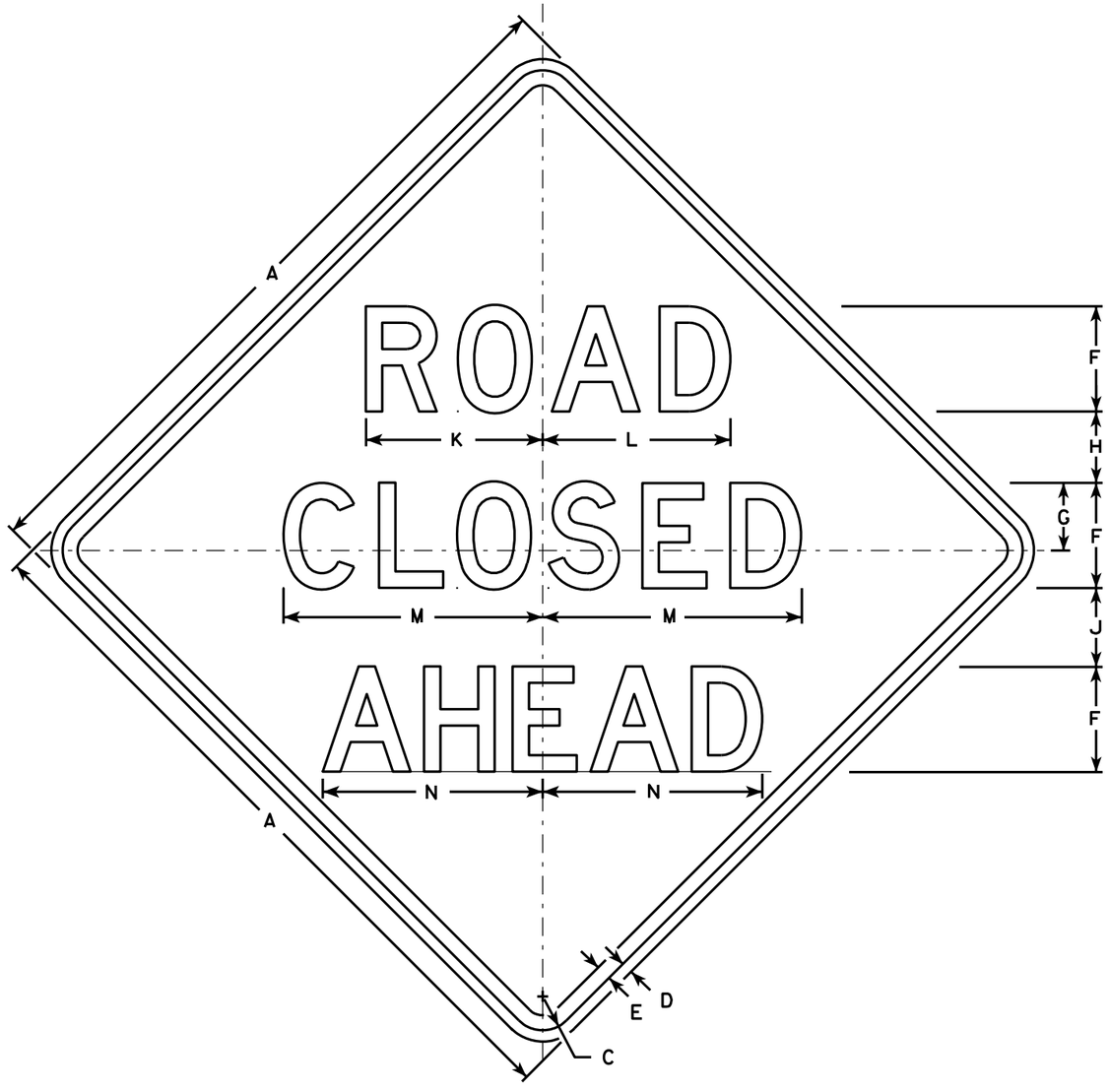
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

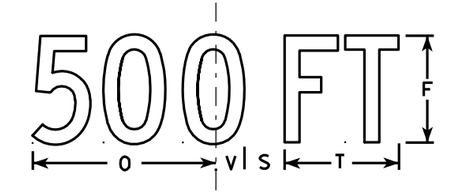
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

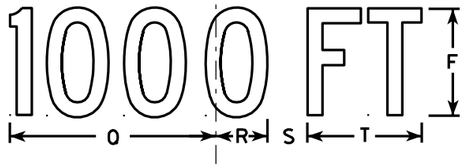
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 278	E



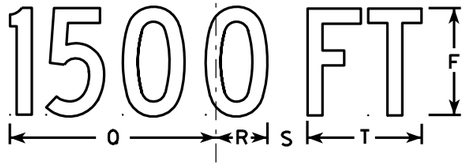
W20-3A



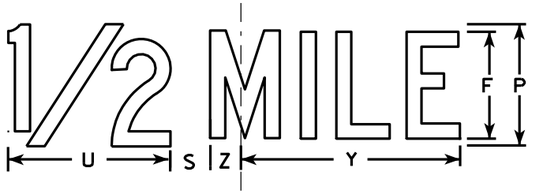
W20-3D



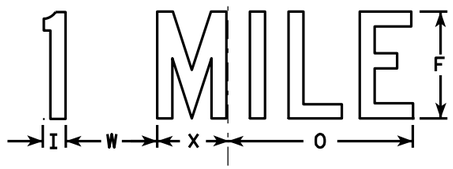
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

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

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

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 279 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000

WISDOT/CADDS SHEET 42

7

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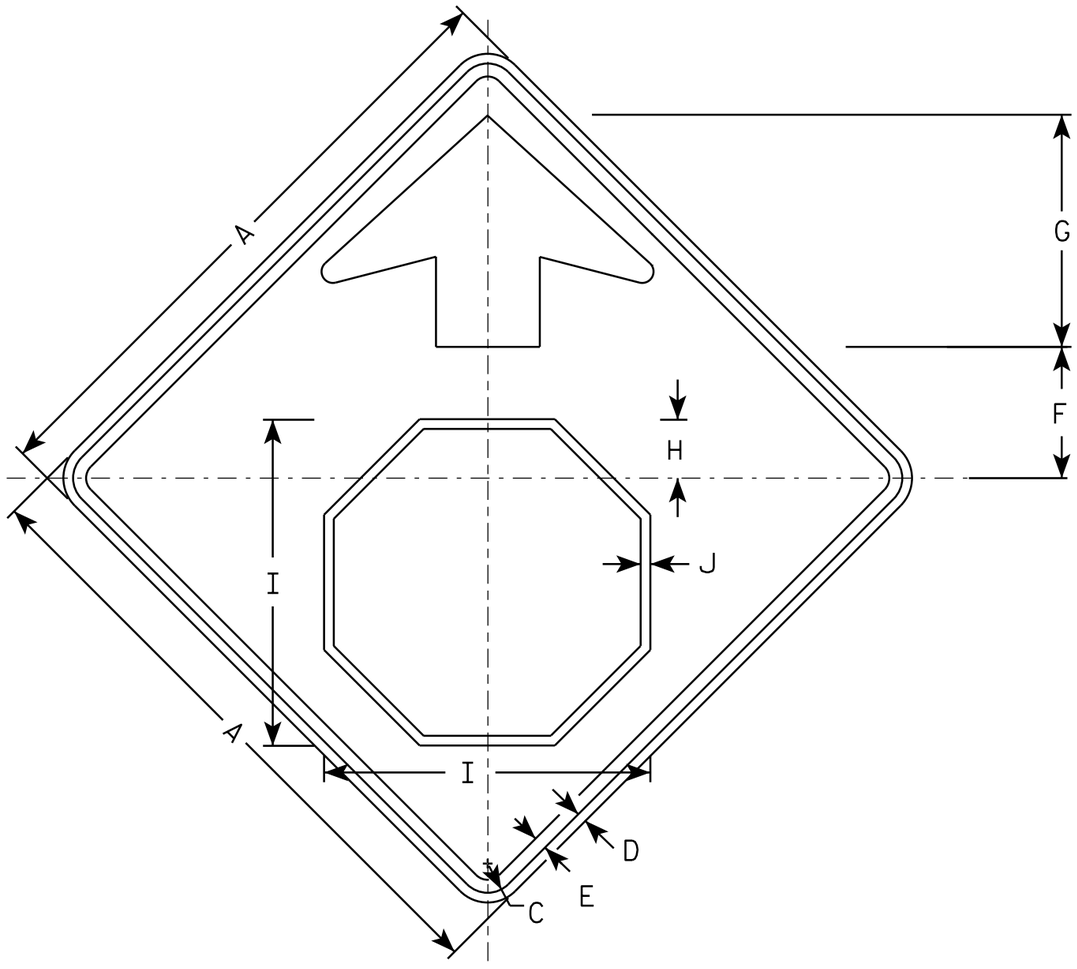
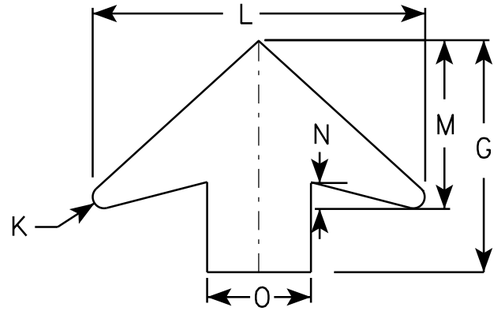


W03-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - ORANGE
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2S	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
2M	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
3	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W03-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 280 03-1.1

PROJECT NO: | SHEET NO: E

7 7

STH 22						*EXPANDED = 1.3	
	END AREA		VOLUME		CUMULATIVE VOLUME		
STATION	CUT (S.F.)	FILL (S.F.)	CUT (C.Y.)	FILL (C.Y.)	CUT (C.Y.)	*FILL (C.Y.)	MASS HAUL (C.Y.)
130+50	96.5	1.9					
130+75	99.0	0.3	90.5	1.0	91	1	89
131+00	99.9	1.3	92.1	0.7	183	2	180
131+50	100.5	0.0	185.6	1.2	368	4	364
132+00	105.2	0.9	190.5	0.8	559	5	554
132+50	114.5	0.0	203.4	0.8	762	6	756
133+00	137.0	0.0	232.9	0.0	995	6	989
133+50	110.7	0.0	229.4	0.0	1224	6	1219
134+06	107.2	2.4	226.4	2.5	1451	9	1442
134+68	130.8	0.9	272.9	3.8	1724	14	1710
135+00	133.5	0.1	156.6	0.6	1880	15	1865
135+50	121.4	0.0	236	0.1	2116	15	2101
136+00	114.1	0.5	218.1	0.5	2334	16	2319
136+50	109.5	0.2	207	0.6	2541	16	2525
137+00	121.6	0.1	214	0.3	2755	17	2739
137+50	105.1	0.4	209.9	0.5	2965	17	2948
138+00	135.3	0.1	222.6	0.5	3188	18	3170
138+50	95.3	0.1	213.5	0.2	3401	18	3383
139+00	107.0	0.0	187.3	0.1	3589	18	3570
139+50	103.4	3.9	194.8	3.6	3784	23	3760
140+00	187.0	4.3	268.9	7.6	4052	33	4019
140+41	137.0	0.0	245.9	3.3	4298	37	4261
141+12	132.4	1.5	356	2.0	4654	40	4614
141+50	126.9	1.0	180.8	1.7	4835	42	4793
142+00	185.6	0.0	289.4	0.9	5125	43	5081
142+70	116.6	0.0	391.6	0.0	5516	43	5473
143+00	112.0	0.0	127.1	0.0	5643	43	5600
143+50	131.4	0.0	225.4	0.0	5869	43	5825
144+00	122.9	0.0	235.5	0.0	6104	43	6061
144+33	123.4	0.0	149.8	0.0	6254	43	6211
144+89	114.8	0.3	245.5	0.3	6499	44	6456
145+50	105.2	0.9	250.6	1.4	6750	46	6705
146+00	89.8	3.6	180.6	4.2	6931	51	6880
146+50	106.9	0.0	182.1	3.3	7113	55	7057
147+00	98.7	0.2	190.4	0.2	7303	56	7248
147+50	129.2	0.0	211	0.2	7514	56	7458
148+00	124.4	0.0	234.8	0.0	7749	56	7693
148+50	120.2	0.0	226.5	0.0	7975	56	7920
149+00	126.8	0.0	228.7	0.0	8204	56	8148
149+50	125.3	0.0	233.4	0.0	8438	56	8382
150+00	141.0	0.0	246.6	0.0	8684	56	8628
150+49	130.9	0.0	247.7	0.0	8932	56	8876
151+12	105.6	0.3	274.2	0.3	9206	56	9150
151+50	114.7	0.1	155.8	0.3	9362	57	9305
152+00	155.6	0.0	250.3	0.1	9612	57	9555
152+50	122.8	0.2	257.8	0.2	9870	57	9813
153+00	124.6	0.0	229.1	0.2	10099	57	10042
153+50	142.9	0.0	247.7	0.0	10347	57	10290
154+00	123.2	0.2	246.4	0.2	10593	57	10536
154+17	129.5	0.0	79.6	0.1	10673	58	10615
154+74	130.7	0.0	275.6	0.0	10948	58	10891
155+00	142.3	0.0	130.4	0.0	11079	58	11021
155+50	143.7	0.0	264.8	0.0	11344	58	11286
156+03	126.6	0.5	265.3	0.5	11609	58	11551
156+37	132.5	0.0	161.3	0.3	11770	59	11711
157+00	121.4	0.1	298.1	0.1	12068	59	12009
157+50	121.3	0.5	224.7	0.6	12293	60	12233
157+73	120.0	0.5	101.8	0.4	12395	60	12335
158+39	117.6	1.4	290.5	2.3	12685	63	12622
158+50	122.7	1.0	49.8	0.5	12735	64	12671
159+00	129.2	0.2	233.2	1.1	12968	65	12903
159+10	123.1	0.2	44.8	0.1	13013	65	12948
159+72	134.5	0.2	299.6	0.5	13313	66	13247
160+00	141.7	0.1	141.3	0.2	13454	66	13388

STH 22						*EXPANDED = 1.3	
	END AREA		VOLUME		CUMULATIVE VOLUME		
STATION	CUT (S.F.)	FILL (S.F.)	CUT (C.Y.)	FILL (C.Y.)	CUT (C.Y.)	*FILL (C.Y.)	MASS HAUL (C.Y.)
160+50	147.0	0.0	267.3	0.1	13721	66	13655
161+00	143.8	0.0	269.3	0.0	13991	66	13924
161+50	142.7	0.1	265.3	0.1	14256	66	14189
162+00	132.3	0.9	254.6	0.9	14510	68	14443
162+50	98.6	3.4	213.8	4.0	14724	73	14651
163+00	109.6	4.3	192.8	7.1	14917	82	14835
163+50	106.8	3.0	200.4	6.8	15117	91	15027
164+00	110.8	2.4	201.5	5.0	15319	97	15222
164+50	117.7	0.7	211.6	2.9	15531	101	15429
165+00	135.6	0.3	234.5	0.9	15765	102	15663
165+50	129.6	0.3	245.6	0.6	16011	103	15908
166+00	137.0	0.2	246.9	0.5	16258	104	16154
166+50	150.4	0.2	266.1	0.4	16524	104	16419
167+00	160.5	0.0	287.9	0.2	16812	105	16707
167+50	201.6	0.0	335.3	0.0	17147	105	17042
167+75	228.9	0.0	199.3	0.0	17346	105	17242
168+00	256.2	0.0	224.6	0.0	17571	105	17466
168+50	247.7	0.0	466.6	0.0	18037	105	17933
169+00	257.0	1.0	467.3	0.9	18505	106	18399
171+00	140.9	6.5	1473.7	27.8	19978	142	19836
171+50	113.8	0.0	235.8	6.0	20214	150	20064
172+00	100.3	3.0	198.2	2.8	20412	153	20259
172+50	78.2	1.9	165.3	4.5	20578	159	20418
173+00	75.2	2.2	142	3.8	20720	164	20556
173+50	72.1	4.0	136.4	5.7	20856	171	20685
174+00	67.6	7.1	129.4	10.3	20985	185	20801
174+50	66.9	8.3	124.5	14.3	21110	203	20906
175+00	72.8	0.9	129.4	8.5	21239	215	21025
175+50	0.0	4.2	67.4	4.7	21307	221	21086
176+00	0.2	2.9	0.2	6.6	21307	229	21078
176+50	0.1	1.4	0.3	4.0	21307	234	21073
177+00	10.1	0.1	9.4	1.4	21317	236	21080
177+50	22.2	0.0	29.9	0.1	21347	236	21110
178+00	4.9	0.2	25.1	0.2	21372	237	21135
178+50	0.2	0.7	4.7	0.8	21376	238	21139
179+00	1.0	1.6	1.1	2.1	21377	240	21137
179+50	0.6	2.4	1.5	3.7	21379	245	21134
180+00	0.3	3.5	0.8	5.5	21380	252	21127
180+50	0.2	7.9	0.5	10.6	21380	266	21114
181+00	0.3	6.5	0.5	13.3	21381	283	21097
181+35	6.6	46.4	4.5	34.3	21385	328	21057
181+50	0.1	47.1	1.9	26.0	21387	362	21025
181+60	20.8	24.1	3.9	13.2	21391	379	21012
182+00	7.6	22.2	21	34.3	21412	424	20988
182+50	1.7	24.6	8.6	43.3	21421	480	20941
182+87	0.1	33.2	1.2	39.6	21422	531	20890

14TH STREET (WEST SIDE)						*EXPANDED= 1.3	
	END AREA		VOLUME		CUMULATIVE VOLUME		
STATION	CUT (S.F.)	FILL (S.F.)	CUT (C.Y.)	FILL (C.Y.)	CUT (C.Y.)	*FILL (C.Y.)	MASS HAUL (C.Y.)
224+25	50.2	0					
224+50	63.3	0.3	52.5	0.1	53	0	52
224+68	66.9	0.1	43.4	0.1	96	0	96
224+79	75	0	29	0	125	0	125

14TH STREET (EAST SIDE)						*EXPANDED= 1.3	
	END AREA		VOLUME		CUMULATIVE VOLUME		
STATION	CUT (S.F.)	FILL (S.F.)	CUT (C.Y.)	FILL (C.Y.)	CUT (C.Y.)	*FILL (C.Y.)	MASS HAUL (C.Y.)
225+21	90	0					
225+32	80.7	0	34.8	0	35	0	35
225+50	60.7	0	47.1	0	82	0	82
225+75	55.2	0	53.7	0	136	0	136

15TH STREET						*EXPANDED= 1.3	
	END AREA		VOLUME		CUMULATIVE VOLUME		
STATION	CUT (S.F.)	FILL (S.F.)	CUT (C.Y.)	FILL (C.Y.)	CUT (C.Y.)	*FILL (C.Y.)	MASS HAUL (C.Y.)
235+22	95	0					
235+34	77.3	0.1	38.8	0	39	0	39
235+50	72.8	0	44	0	83	0	83
235+58	70	0	21.2	0	104	0	104

16TH STREET						*EXPANDED= 1.3	
	END AREA		VOLUME		CUMULATIVE VOLUME		
STATION	CUT (S.F.)	FILL (S.F.)	CUT (C.Y.)	FILL (C.Y.)	CUT (C.Y.)	*FILL (C.Y.)	MASS HAUL (C.Y.)
245+22	120	0					
245+32	118.5	2	45	0.4	45	1	44
245+50	112.6	5.2	76.2	2.4	121	4	118
246+00	79.4	0.1	177.8	4.9	299	10	289
246+26	70.4	0	73.1	0	372	10	362

HARRIET STREET *EXPANDED= 1.3

STATION	END AREA CUT (S.F.)	END AREA FILL (S.F.)	VOLUME CUT (C.Y.)	VOLUME FILL (C.Y.)	CUMULATIVE VOLUME CUT (C.Y.)	CUMULATIVE VOLUME *FILL (C.Y.)	MASS HAUL (C.Y.)
254+35	52.9	0					
254+50	60.9	0	31.6	0	32	0	32
254+68	62.5	0	40.7	0	72	0	72
254+79	75	0	28.5	0	101	0	101

19TH STREET *EXPANDED= 1.3

STATION	END AREA CUT (S.F.)	END AREA FILL (S.F.)	VOLUME CUT (C.Y.)	VOLUME FILL (C.Y.)	CUMULATIVE VOLUME CUT (C.Y.)	CUMULATIVE VOLUME *FILL (C.Y.)	MASS HAUL (C.Y.)
285+22	90	0					
285+32	81.6	0	32	0	32	0	32
285+50	65	0	48.7	0	81	0	81
285+65	63.8	0	35.8	0	117	0	117

GREEN TREE RD/STH 156 *EXPANDED= 1.3

STATION	END AREA CUT (S.F.)	END AREA FILL (S.F.)	VOLUME CUT (C.Y.)	VOLUME FILL (C.Y.)	CUMULATIVE VOLUME CUT (C.Y.)	CUMULATIVE VOLUME *FILL (C.Y.)	MASS HAUL (C.Y.)
311+90	111.7	0					
312+50	105.5	3.7	241.3	4.1	241	5	236
313+00	127.0	0.3	215.3	3.7	457	10	446
313+50	201.4	0.7	304.1	0.9	761	11	749
314+00	290.8	11.2	455.7	11	1216	26	1191
314+29	316.7	16.7	324.6	14.9	1541	45	1496
314+69	515.0	20.0	618.4	27.3	2159	80	2079
315+42	430.0	55.0					
316+13	217.3	53.1	854.8	142.8	855	186	669
316+50	150.9	25.4	250.2	53.3	1105	255	850
317+00	108.1	0	239.8	23.5	1345	285	1059
317+50	67.5	0	162.6	0	1507	285	1222
318+00	68.5	6.2	125.9	5.7	1633	293	1340

17TH STREET *EXPANDED= 1.3

STATION	END AREA CUT (S.F.)	END AREA FILL (S.F.)	VOLUME CUT (C.Y.)	VOLUME FILL (C.Y.)	CUMULATIVE VOLUME CUT (C.Y.)	CUMULATIVE VOLUME *FILL (C.Y.)	MASS HAUL (C.Y.)
264+52	38	0					
264+68	39.2	0	22.8	0	23	0	23
264+79	47	0	17.7	0	41	0	41

20TH STREET *EXPANDED= 1.3

STATION	END AREA CUT (S.F.)	END AREA FILL (S.F.)	VOLUME CUT (C.Y.)	VOLUME FILL (C.Y.)	CUMULATIVE VOLUME CUT (C.Y.)	CUMULATIVE VOLUME *FILL (C.Y.)	MASS HAUL (C.Y.)
294+45	64	0					
294+50	65.8	0	12	0	12	0	12
294+68	49.9	0.5	38.4	0.2	50	0	50
294+79	65	0	23.6	0.1	74	0	74

LYON STREET *EXPANDED= 1.3

STATION	END AREA CUT (S.F.)	END AREA FILL (S.F.)	VOLUME CUT (C.Y.)	VOLUME FILL (C.Y.)	CUMULATIVE VOLUME CUT (C.Y.)	CUMULATIVE VOLUME *FILL (C.Y.)	MASS HAUL (C.Y.)
338+73	2.5	0.0					
339+00	5.5	0.0	4.0	0.0	4	0	4
339+50	7.2	0.0	11.8	0.0	16	0	16
339+73	9.0	0.0	6.9	0.0	23	0	23

18TH STREET *EXPANDED= 1.3

STATION	END AREA CUT (S.F.)	END AREA FILL (S.F.)	VOLUME CUT (C.Y.)	VOLUME FILL (C.Y.)	CUMULATIVE VOLUME CUT (C.Y.)	CUMULATIVE VOLUME *FILL (C.Y.)	MASS HAUL (C.Y.)
274+50	58	0					
274+68	62.5	0	40.1	0	40	0	40
274+79	70	0	27	0	67	0	67

PARK STREET *EXPANDED= 1.3

STATION	END AREA CUT (S.F.)	END AREA FILL (S.F.)	VOLUME CUT (C.Y.)	VOLUME FILL (C.Y.)	CUMULATIVE VOLUME CUT (C.Y.)	CUMULATIVE VOLUME *FILL (C.Y.)	MASS HAUL (C.Y.)
305+21	80	0					
305+32	64.6	0	29.5	0	30	0	30
305+55	54.2	0.5	50.5	0.2	80	0	80
305+56	20	0	0.7	0	81	0	80
305+90	15	0	22.4	0	103	0	103

E 12TH STREET/SSGT WARREN HANSEN DRIVE *EXPANDED= 1.3

STATION	END AREA CUT (S.F.)	END AREA FILL (S.F.)	VOLUME CUT (C.Y.)	VOLUME FILL (C.Y.)	CUMULATIVE VOLUME CUT (C.Y.)	CUMULATIVE VOLUME *FILL (C.Y.)	MASS HAUL (C.Y.)
332+70	18.0	0.0					
333+00	19.0	0.0	20.8	0.0	21	0	21
333+50	22.0	0.0	38.0	0.0	59	0	59
334+00	21.0	0.0	39.8	0.0	99	0	99
334+25	18.0	0.0	18.1	0.0	117	0	117
334+26	0.0	0.0	0.3	0.0	117	0	117
334+50	0.0	0.0	0.0	0.0	117	0	117
334+91	0.0	0.0	0.0	0.0	117	0	117

INDUSTRIAL AVENUE *EXPANDED= 1.3

STATION	END AREA CUT (S.F.)	END AREA FILL (S.F.)	VOLUME CUT (C.Y.)	VOLUME FILL (C.Y.)	CUMULATIVE VOLUME CUT (C.Y.)	CUMULATIVE VOLUME *FILL (C.Y.)	MASS HAUL (C.Y.)
101+05 - 102+70	N/A	N/A	43.0	5.0	43	7	37
101+05 - 102+70	N/A	N/A	68.0	0.0	111	7	105

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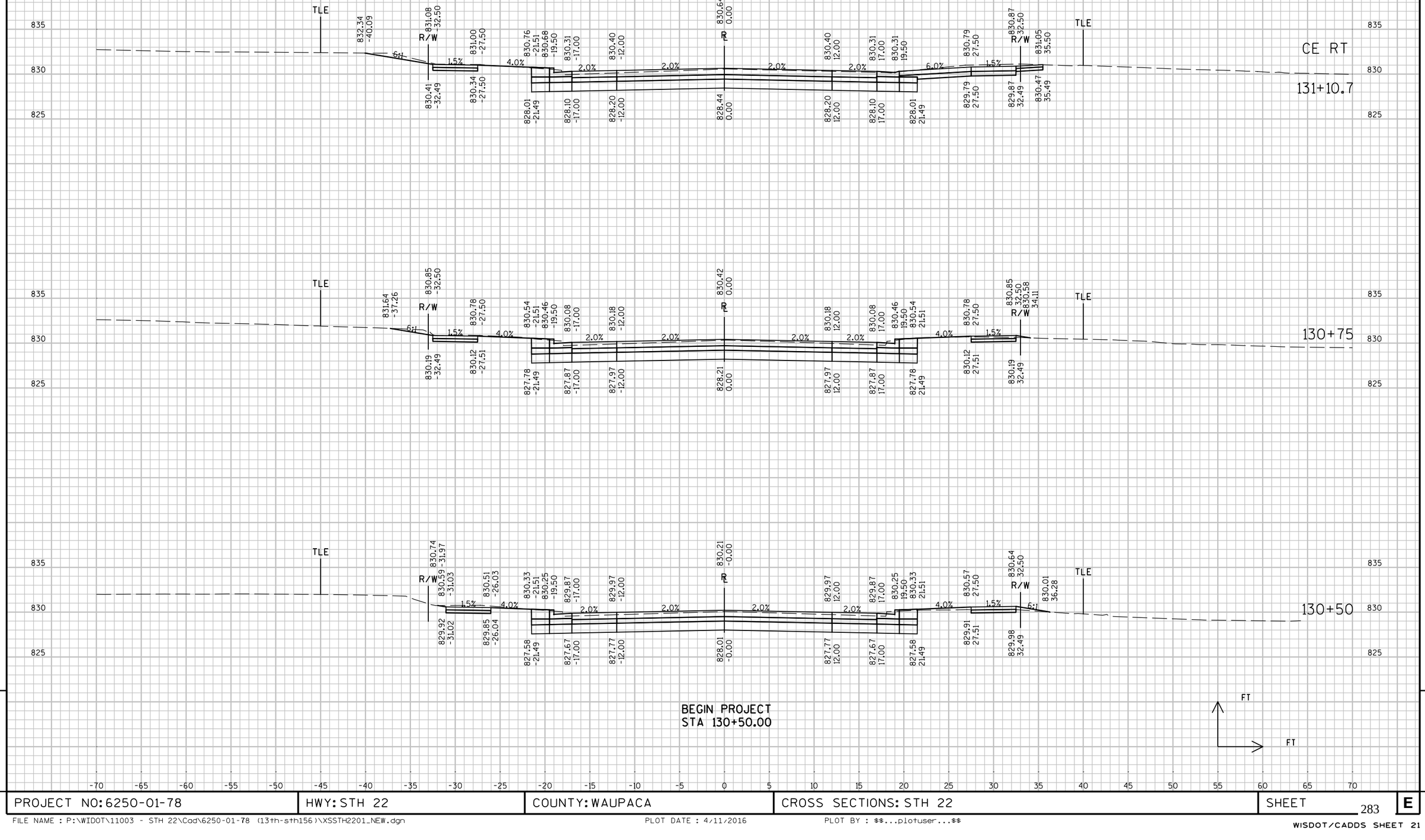
PROJECT NO: 6250-01-78 | HWY: STH 22 | COUNTY: WAUPACA | EARTHWORK | SHEET 282 | E



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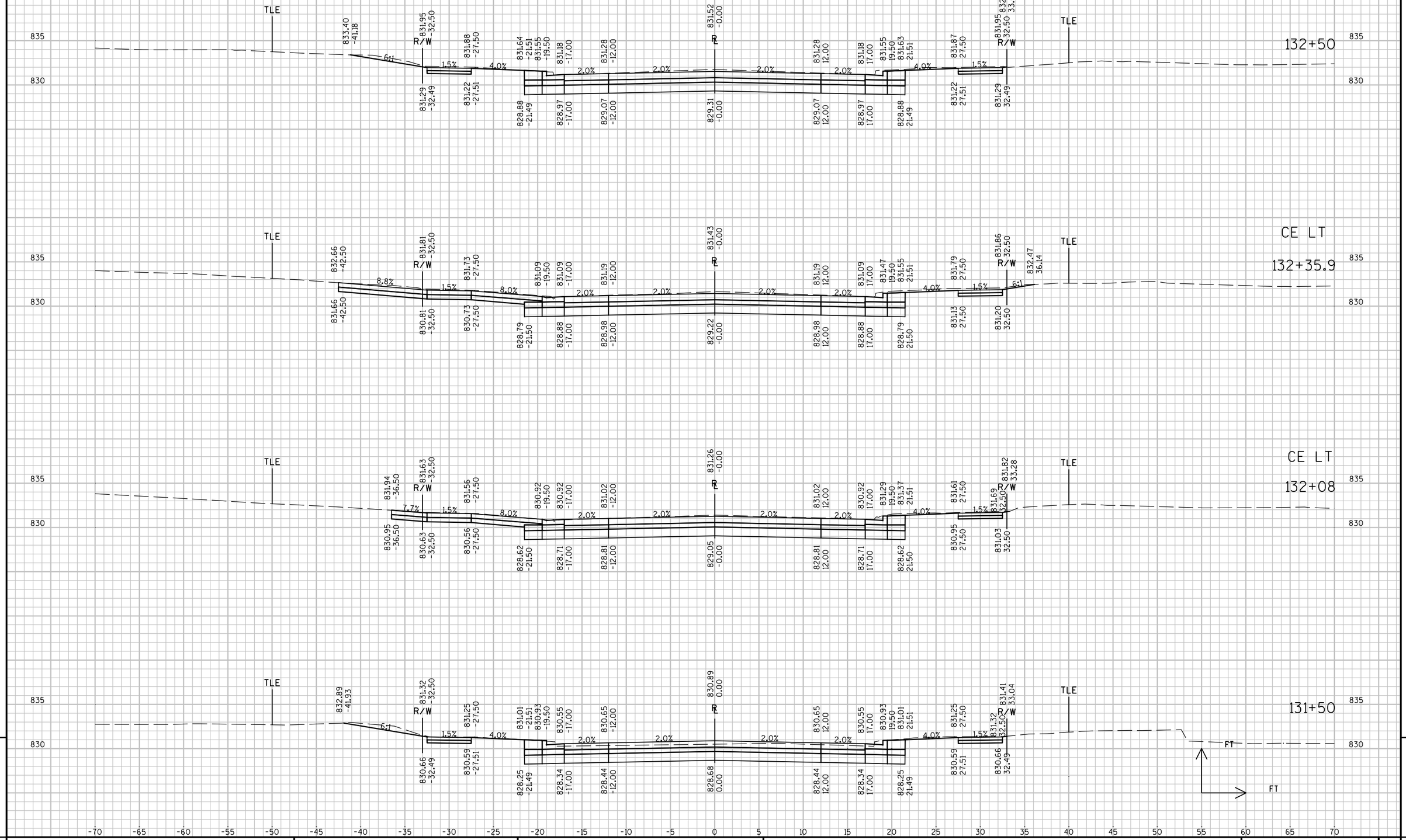
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 283	E



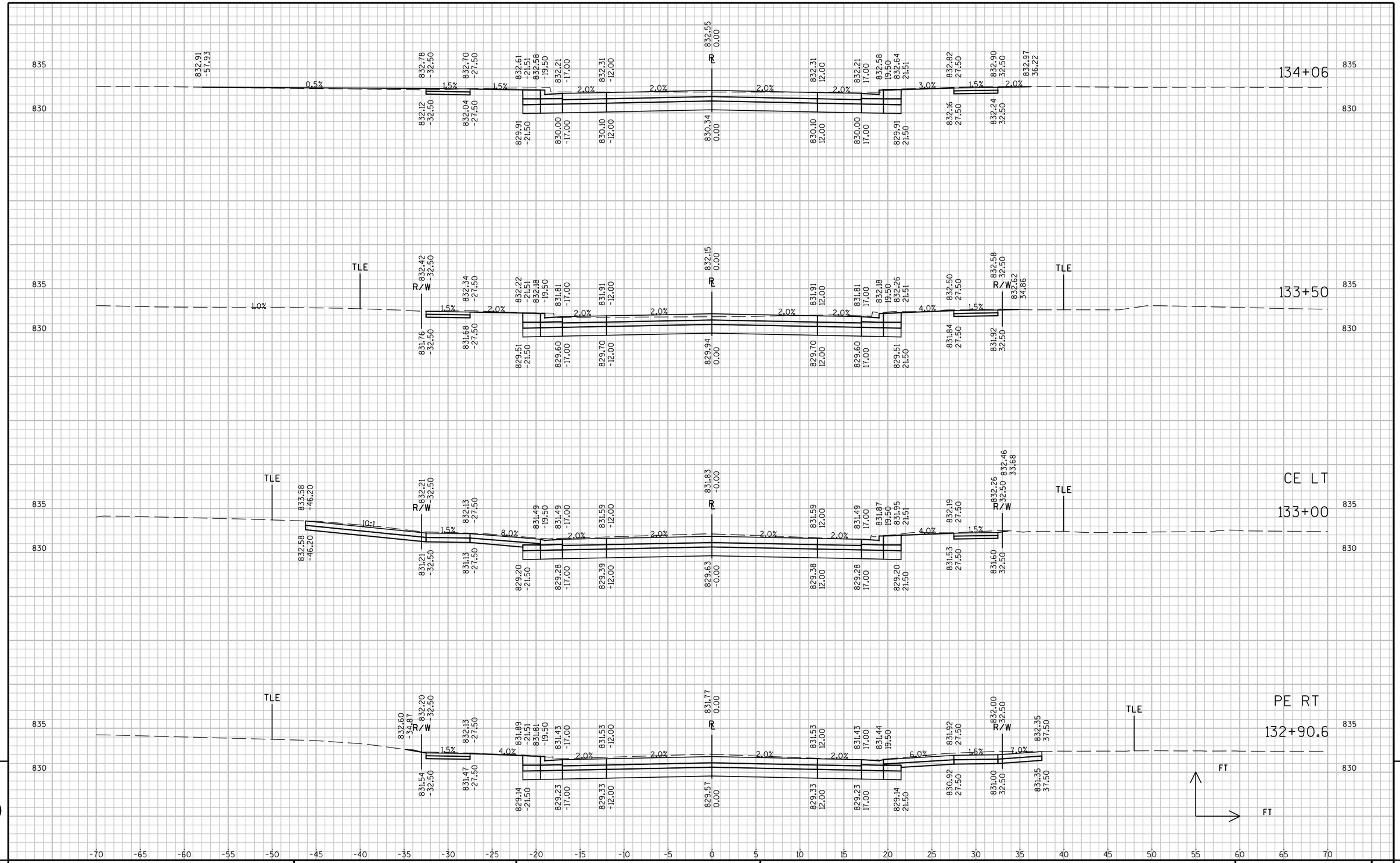
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 284	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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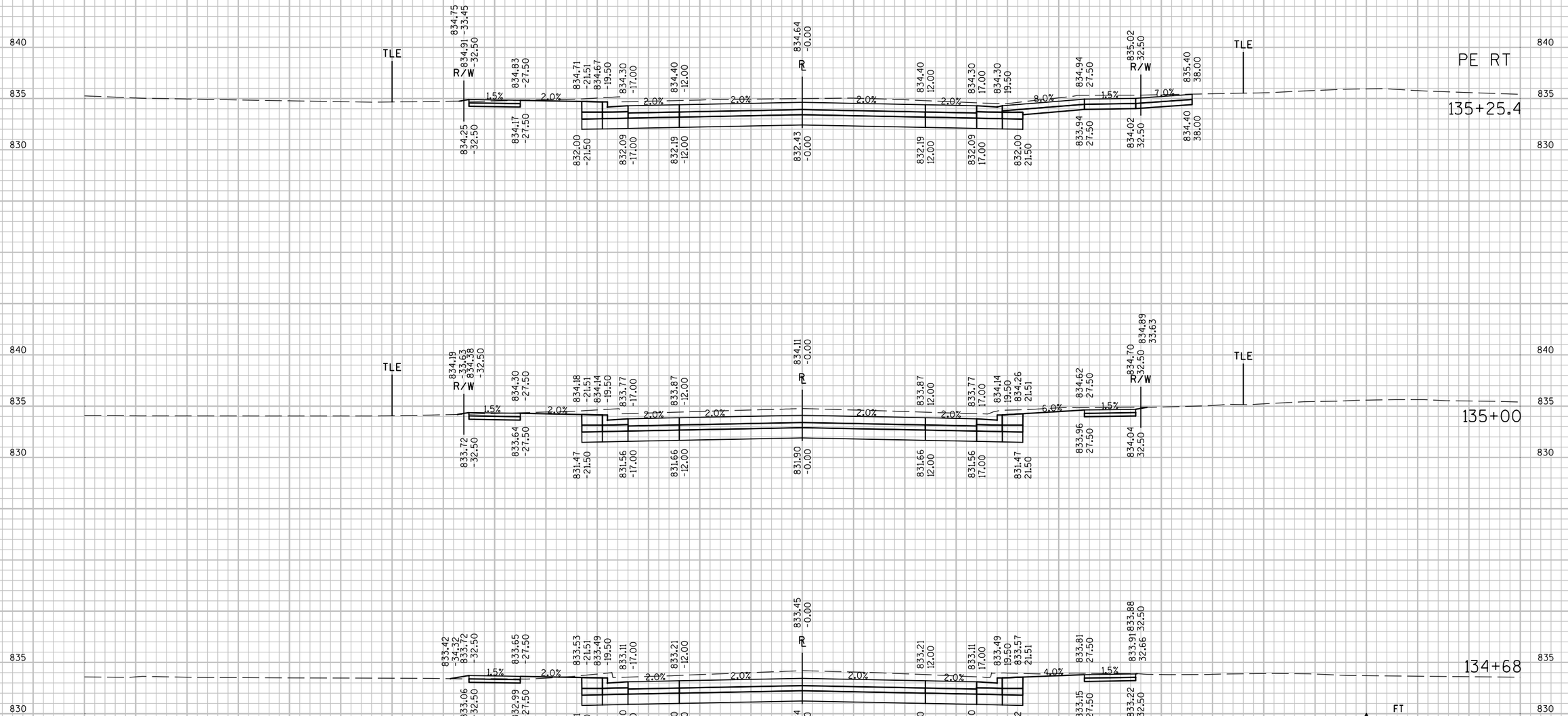
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 285	E



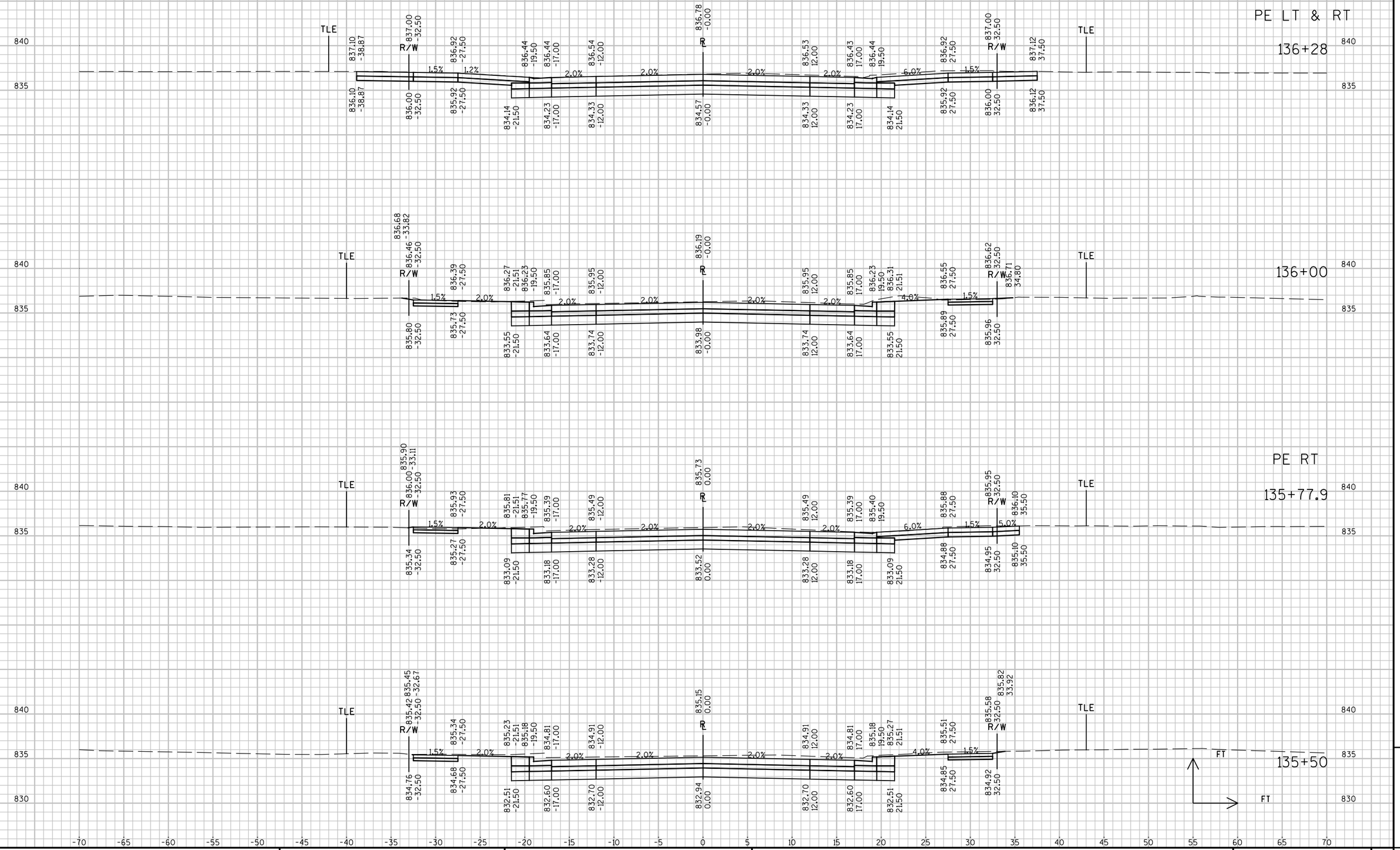
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 286	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



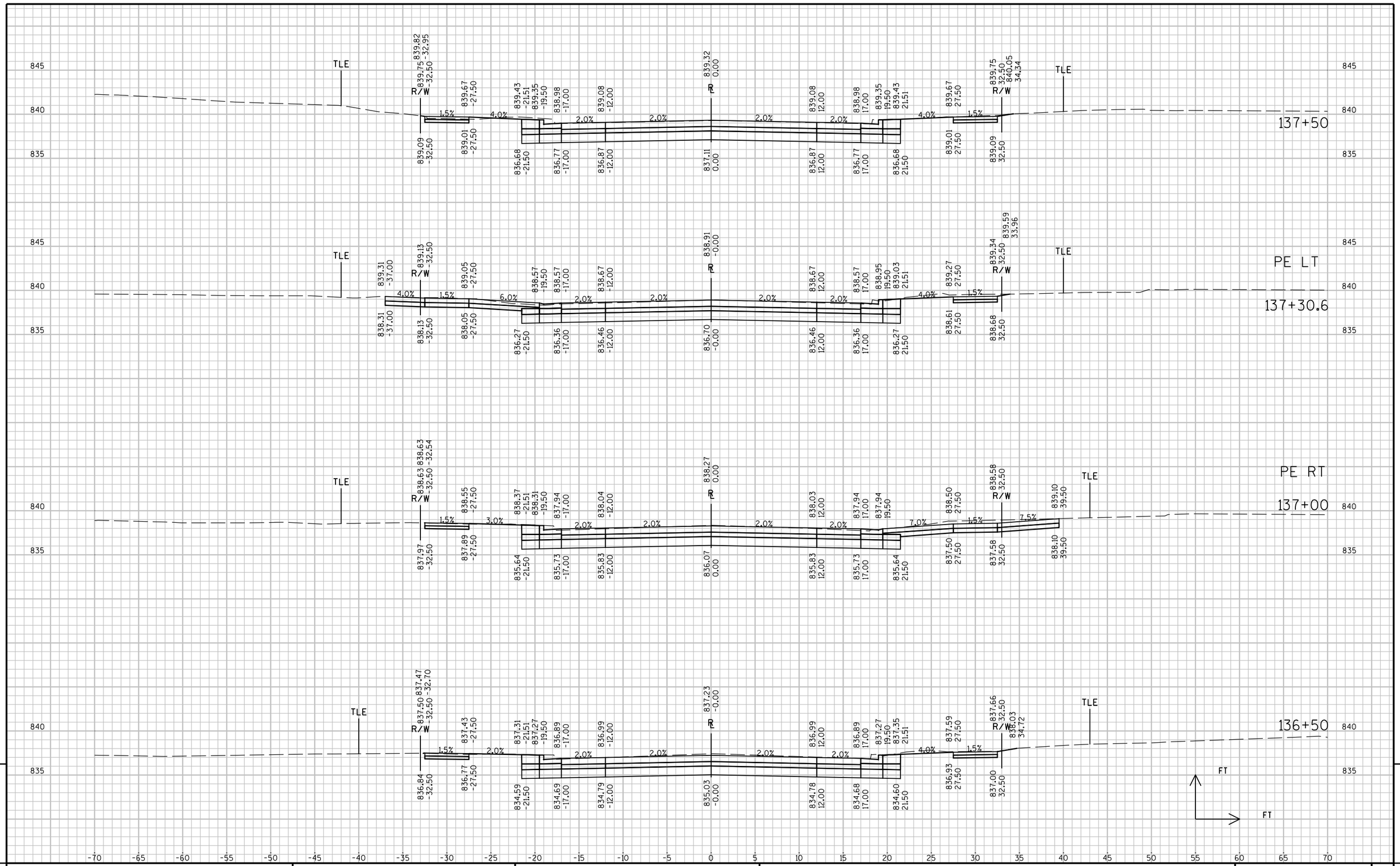
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 287	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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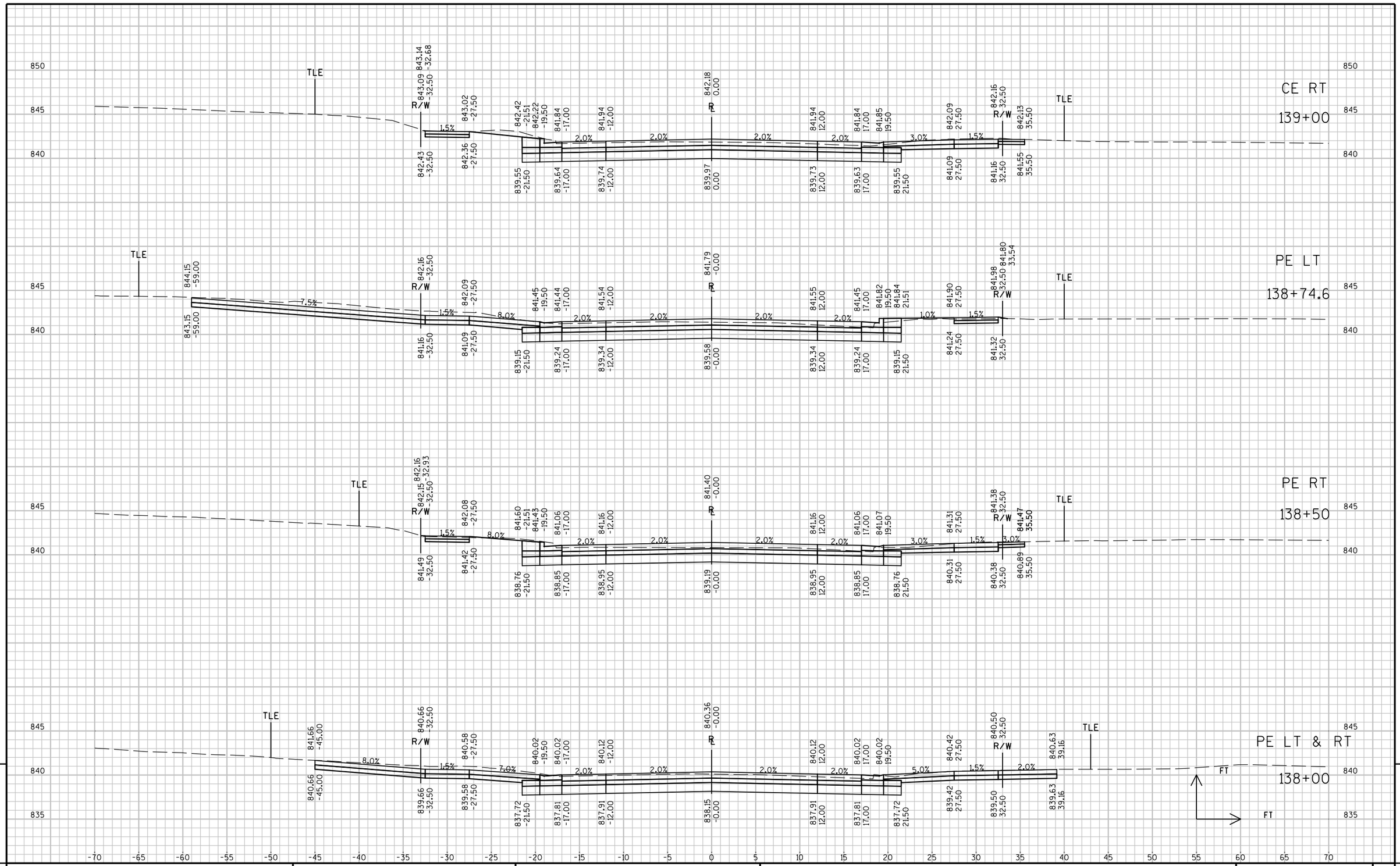
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 288	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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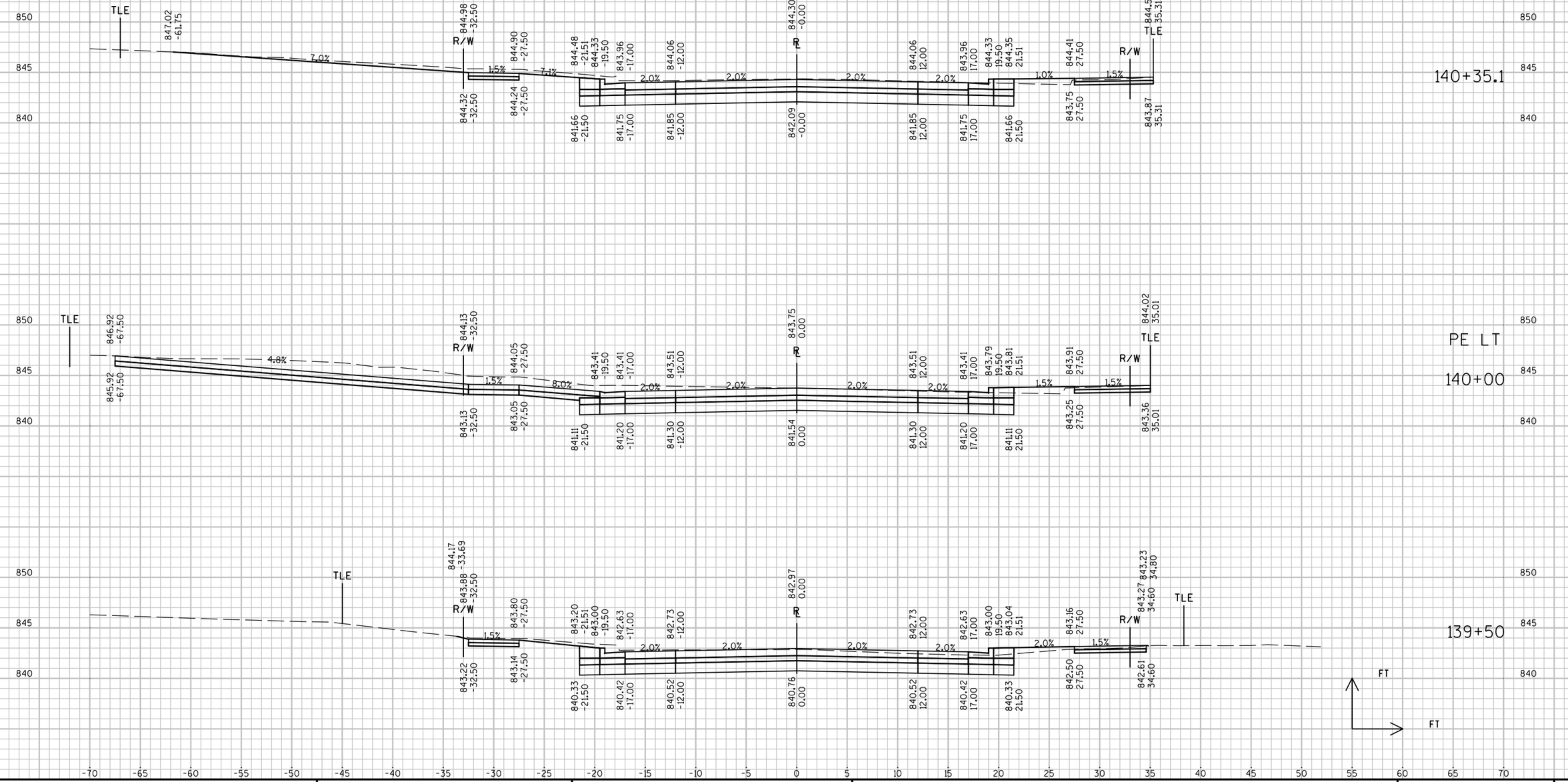
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 289	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

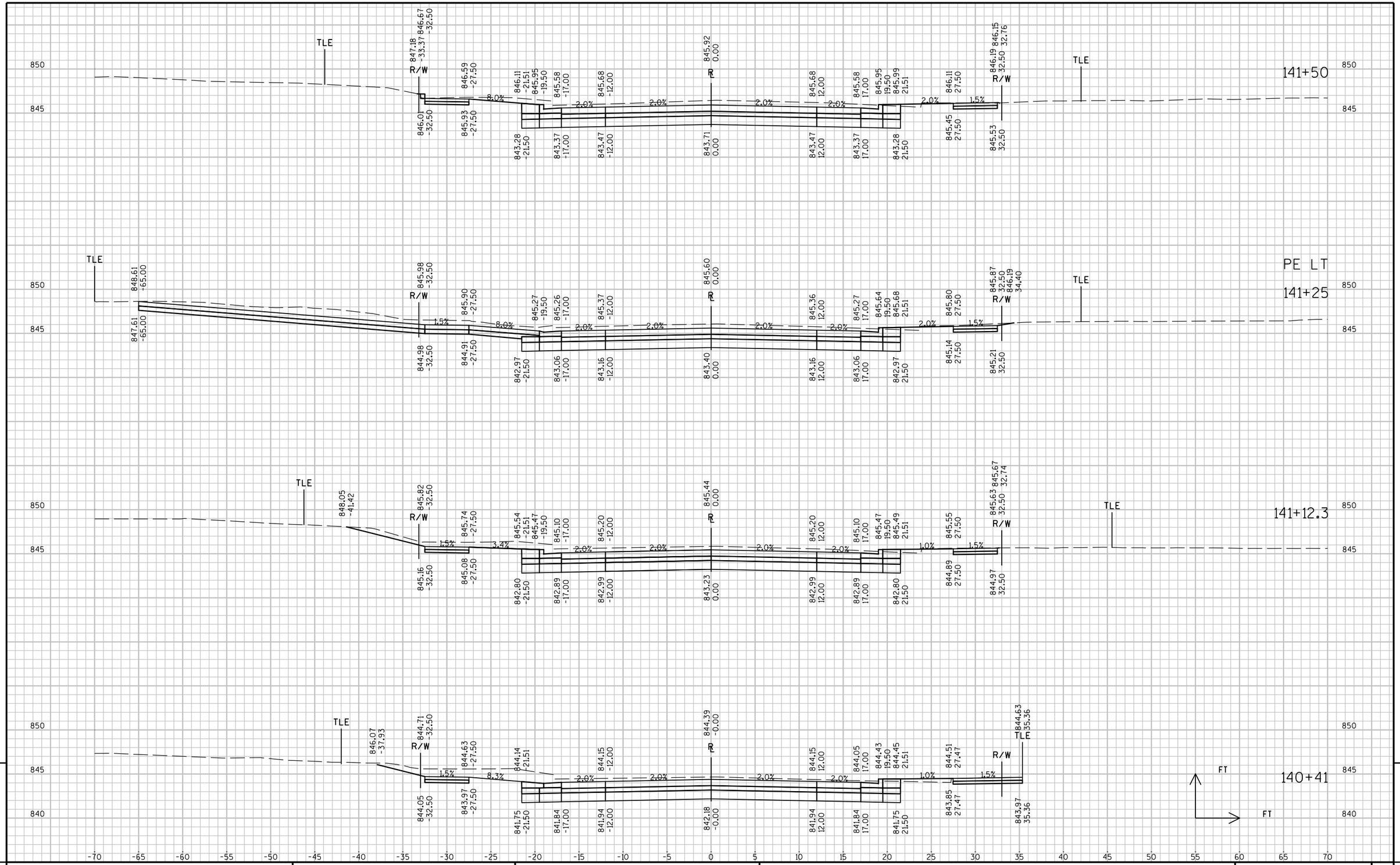
PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 290	E



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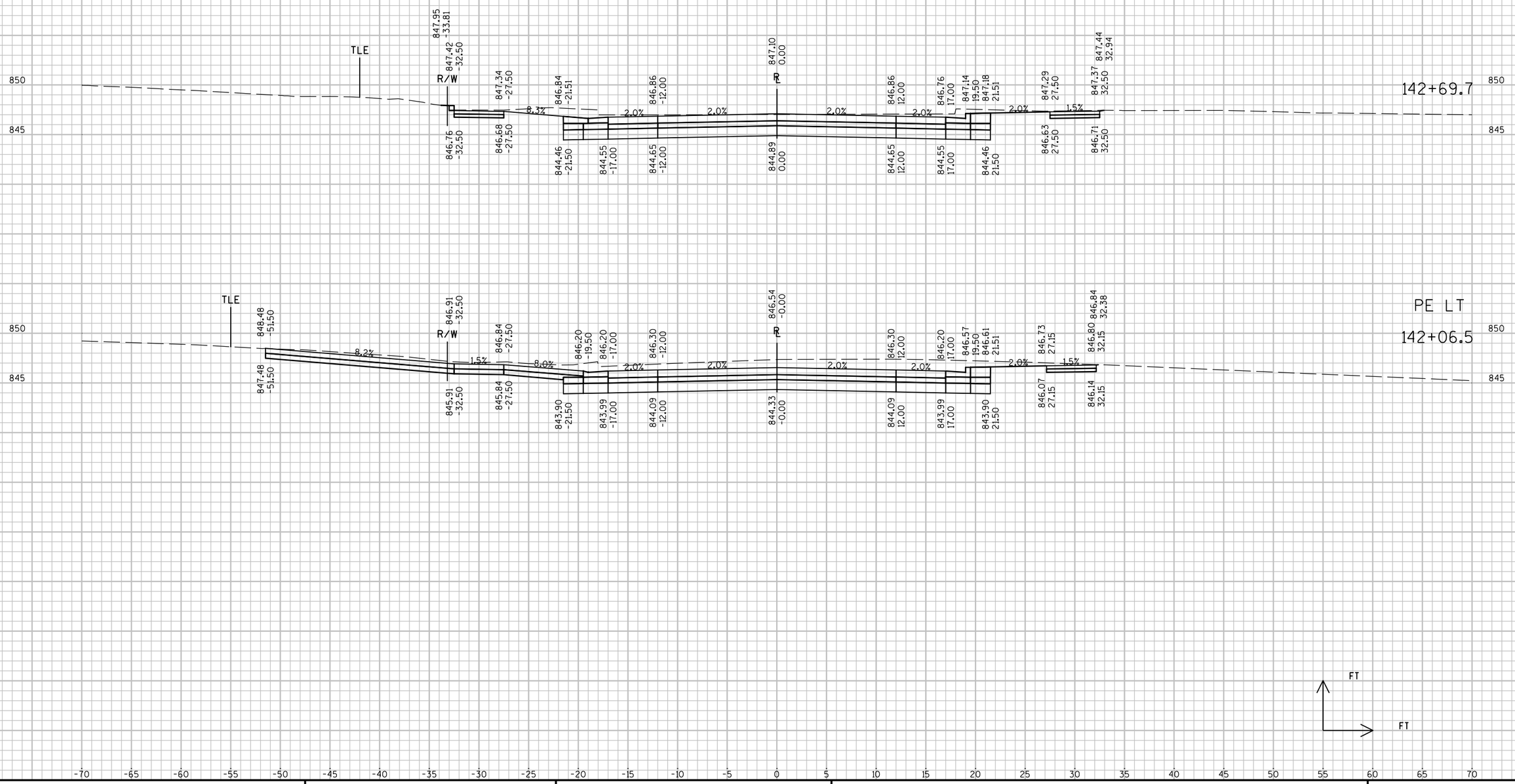
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 291	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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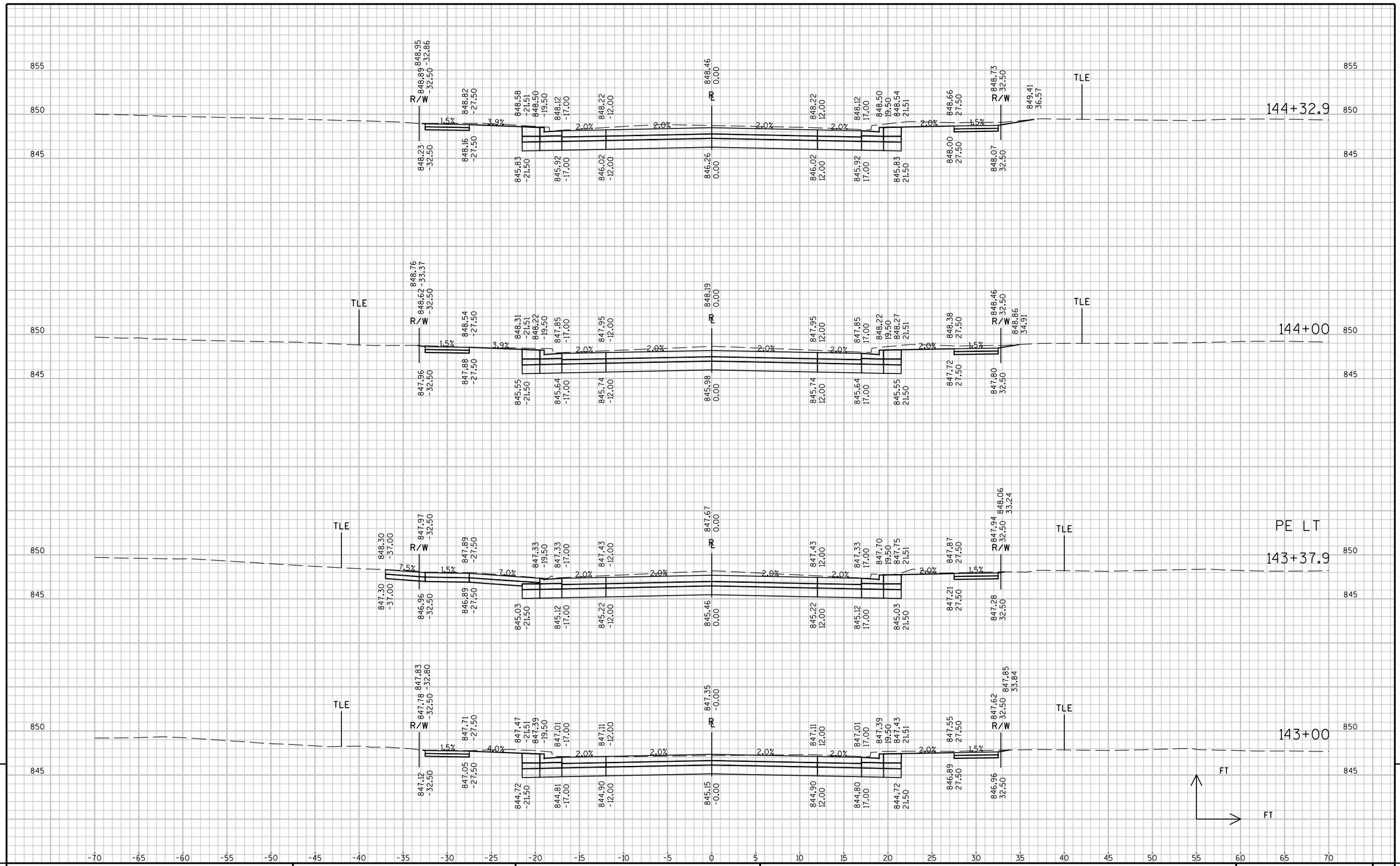
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 292	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



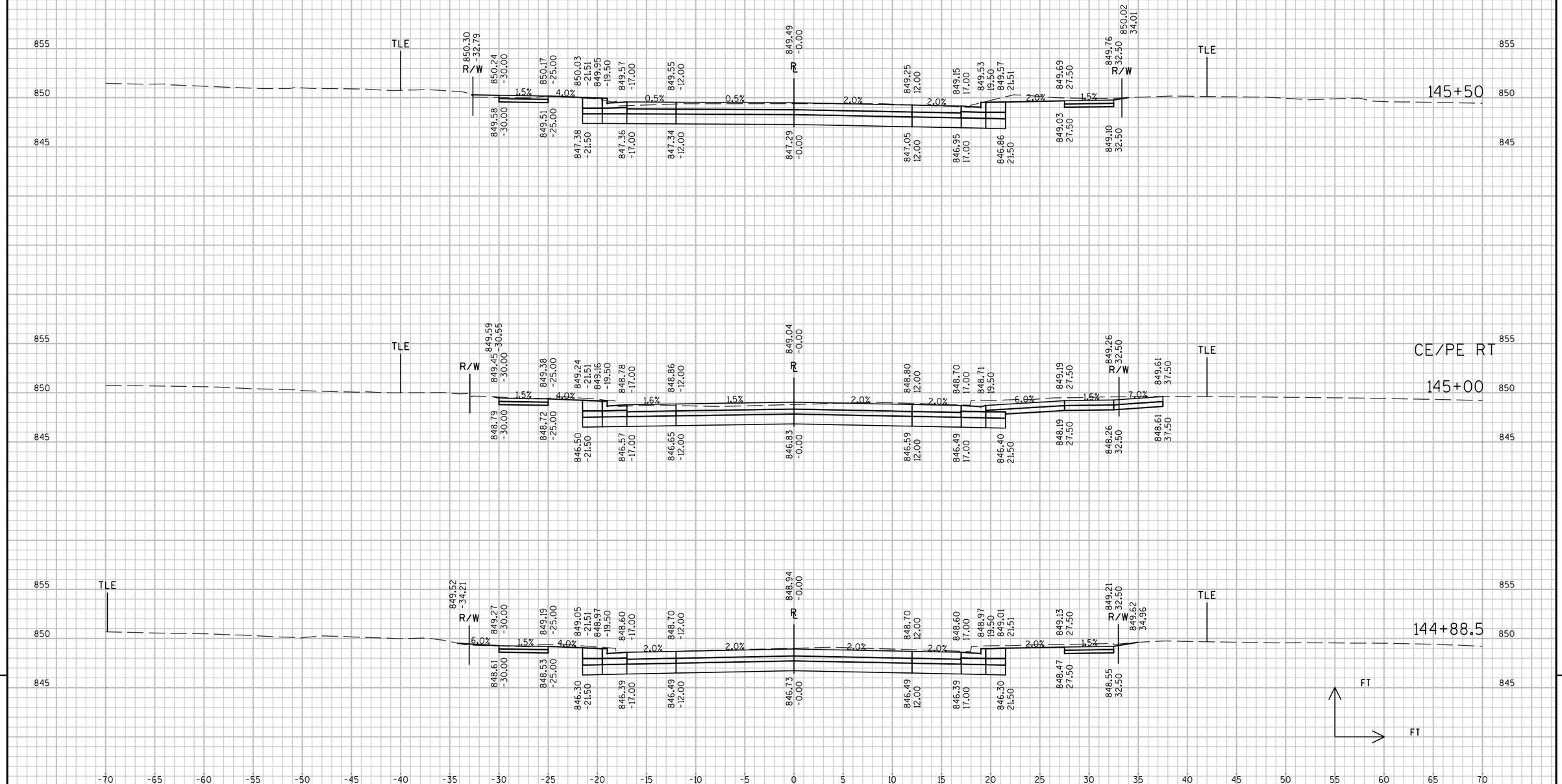
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 293	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



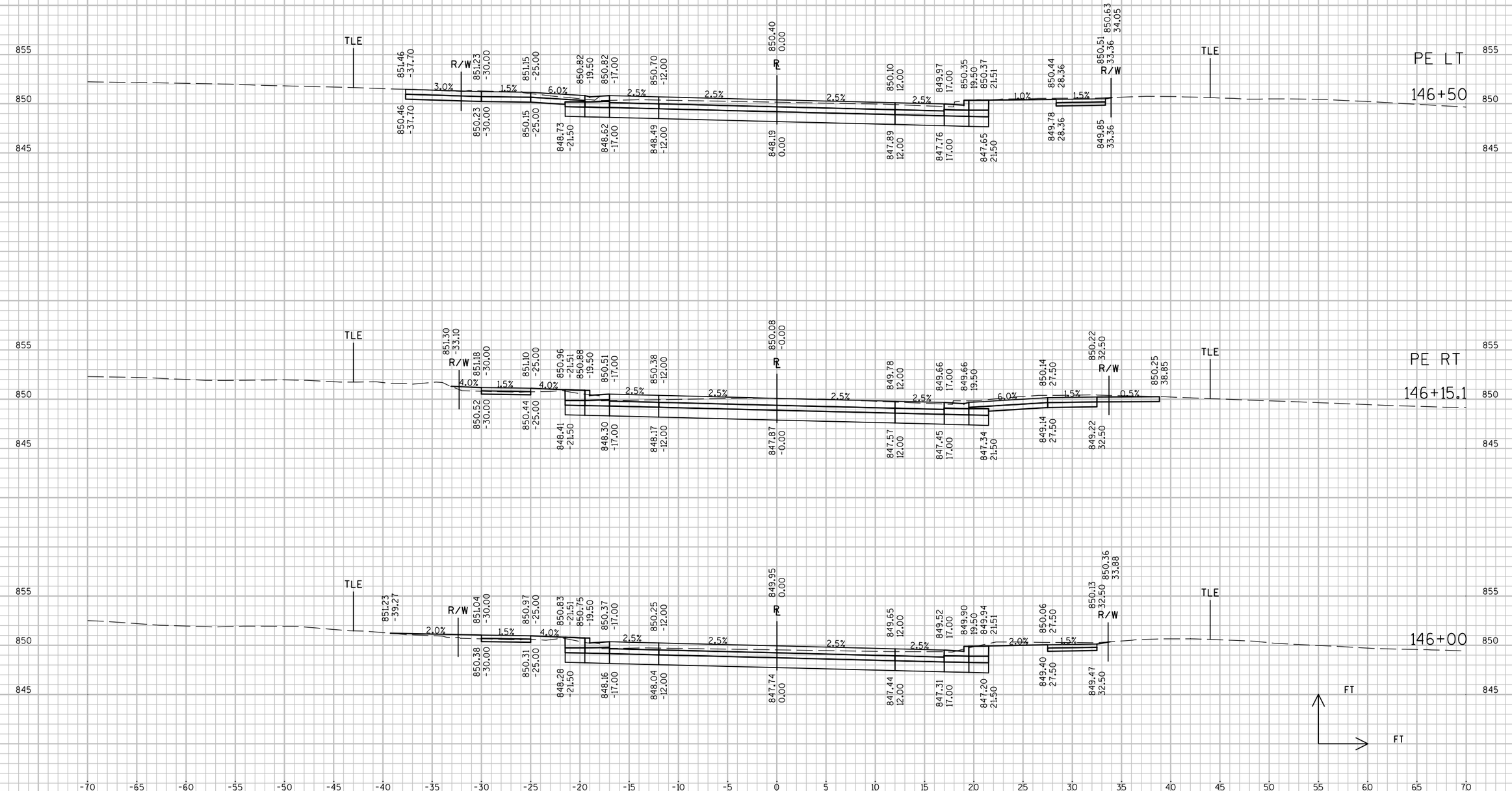
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 294	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



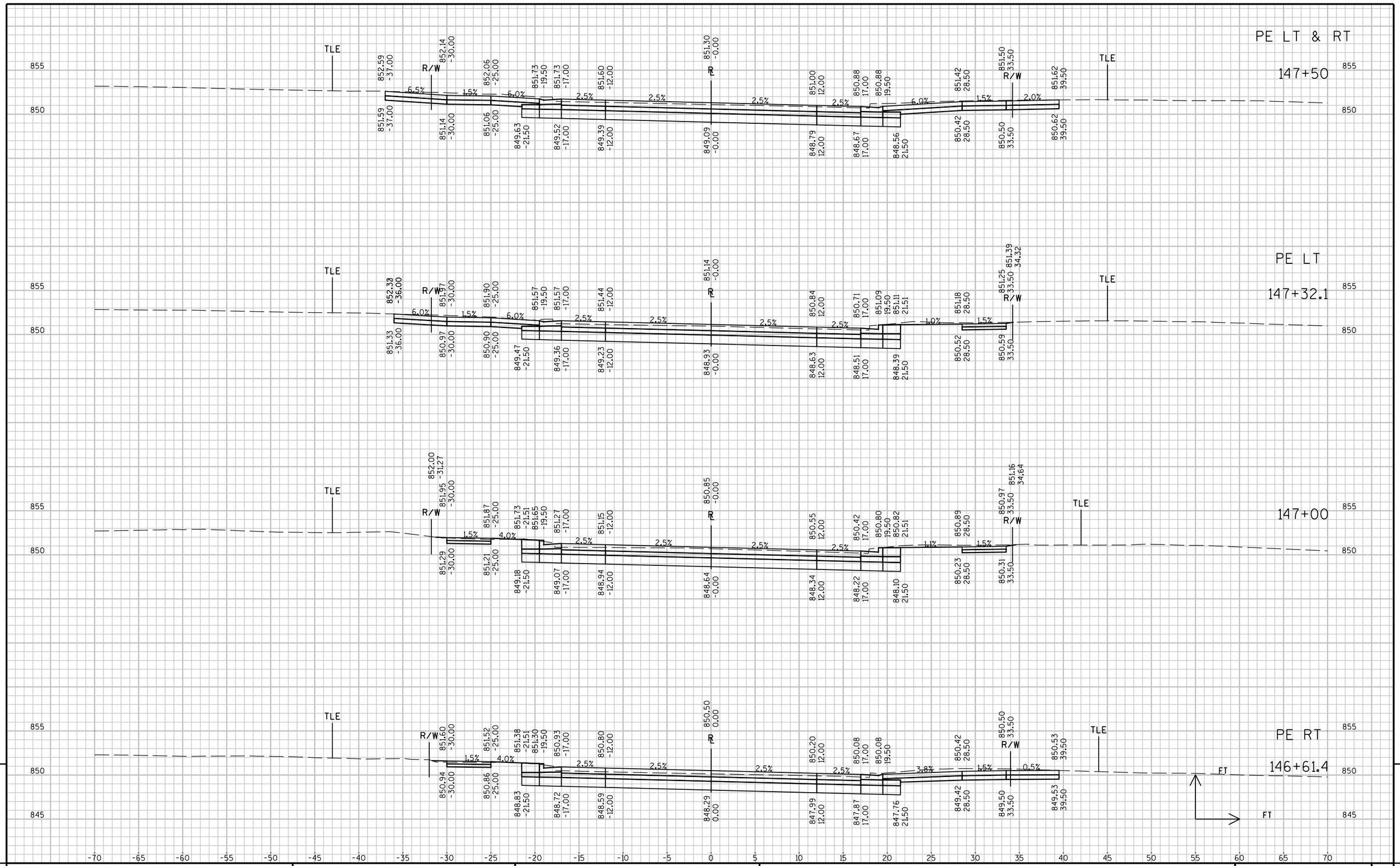
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 295	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

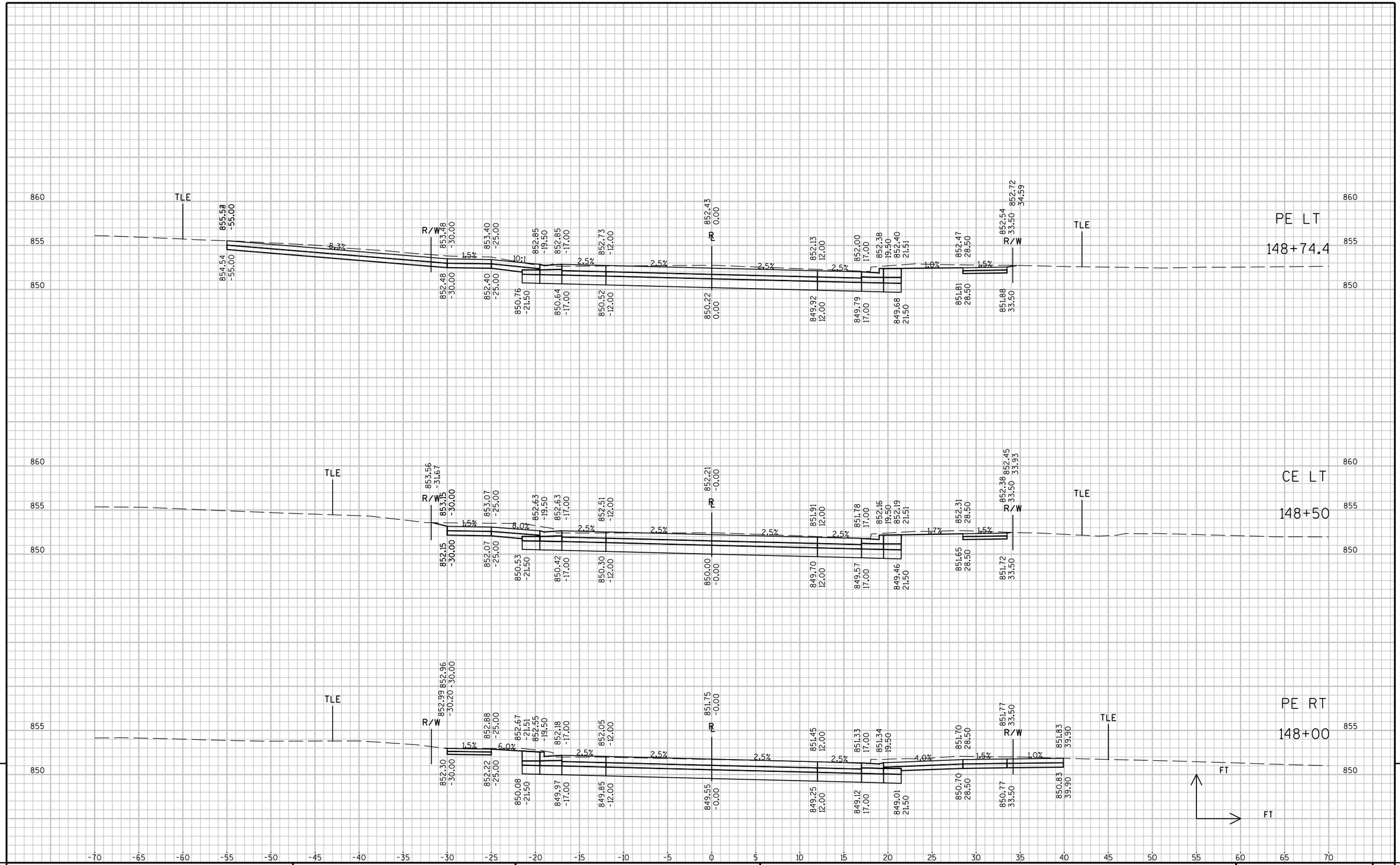
WISDOT/CADDS SHEET 21



PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 296	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn PLOT DATE : 4/11/2016 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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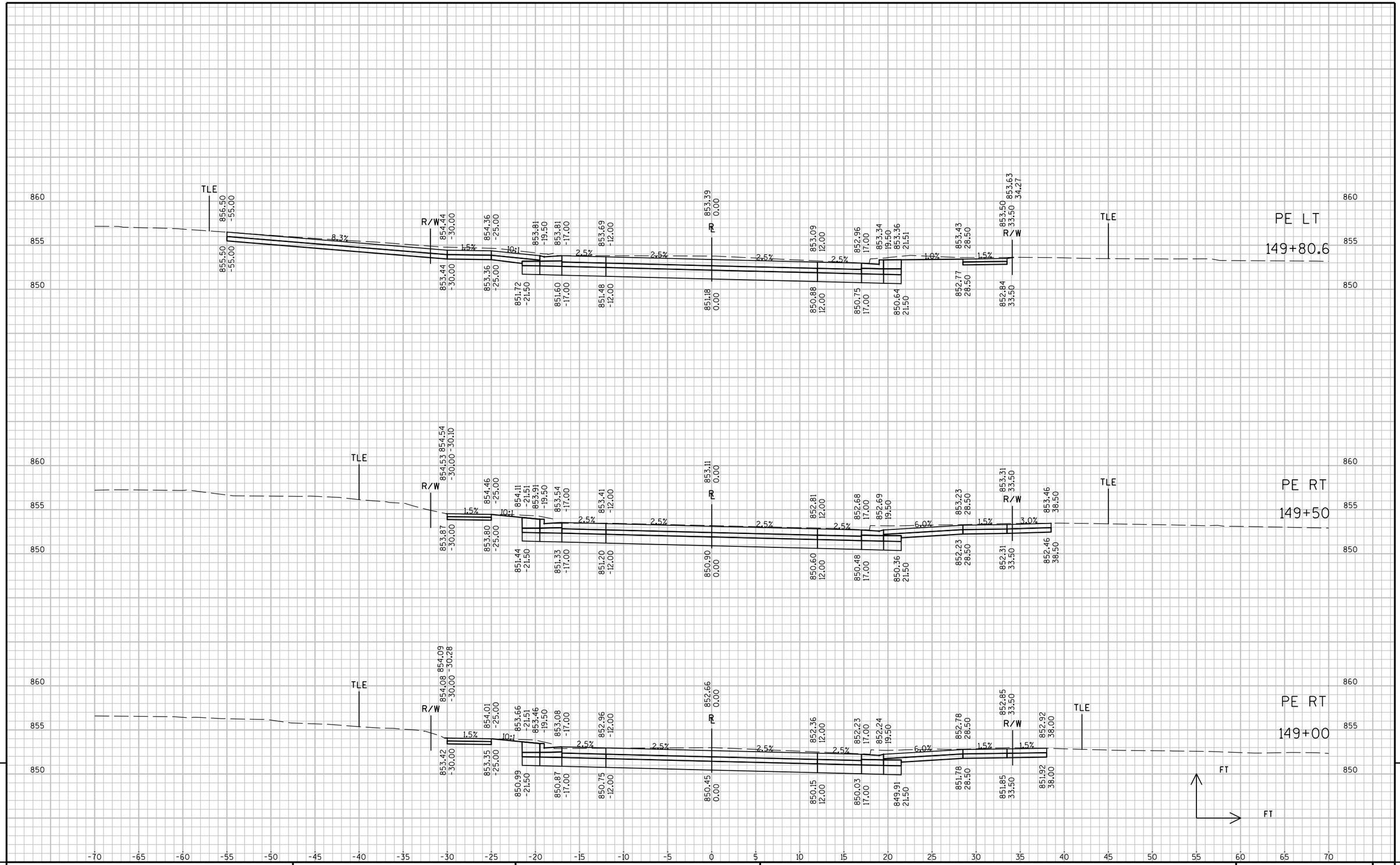
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 297	E



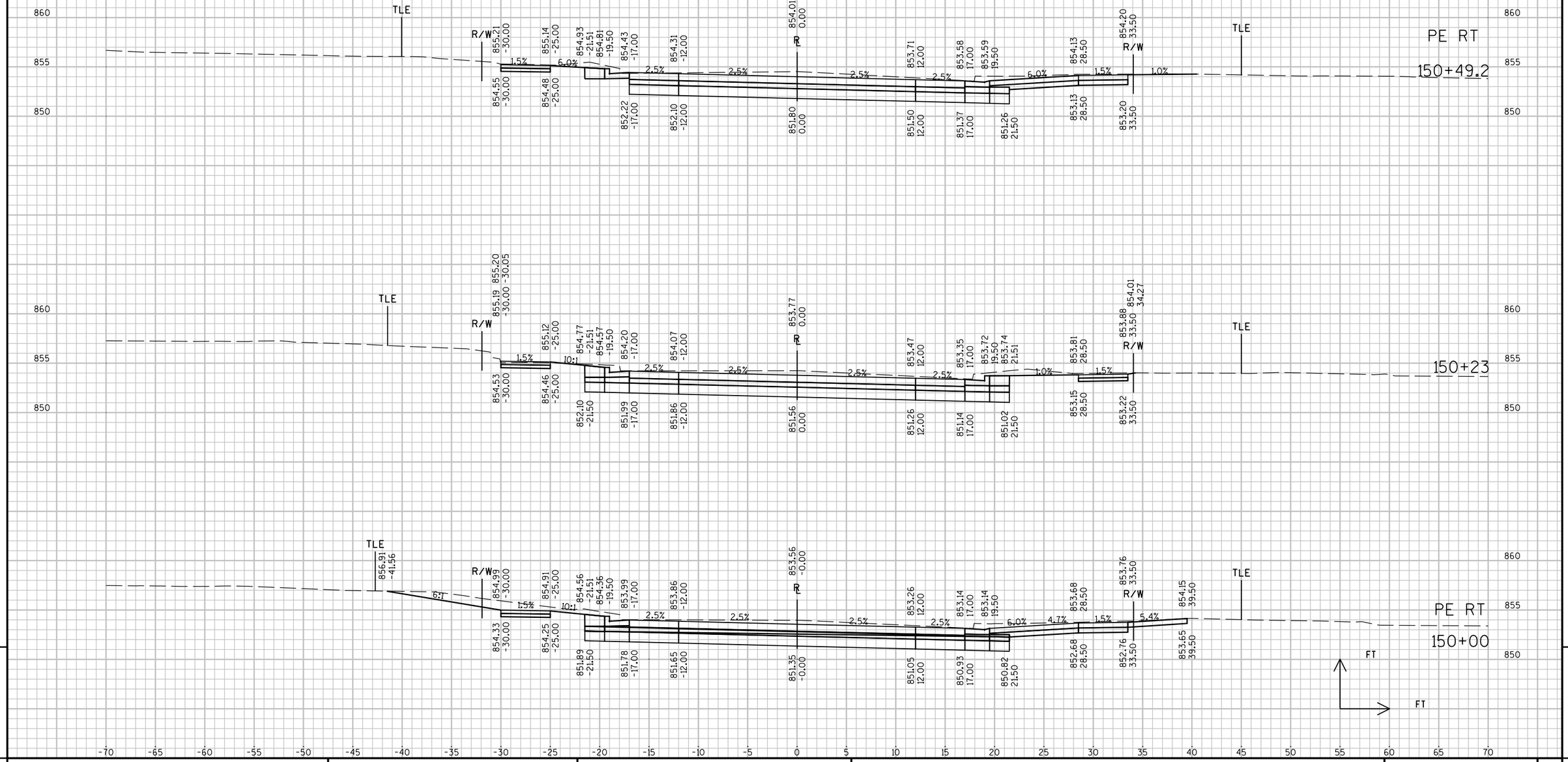
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 298	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



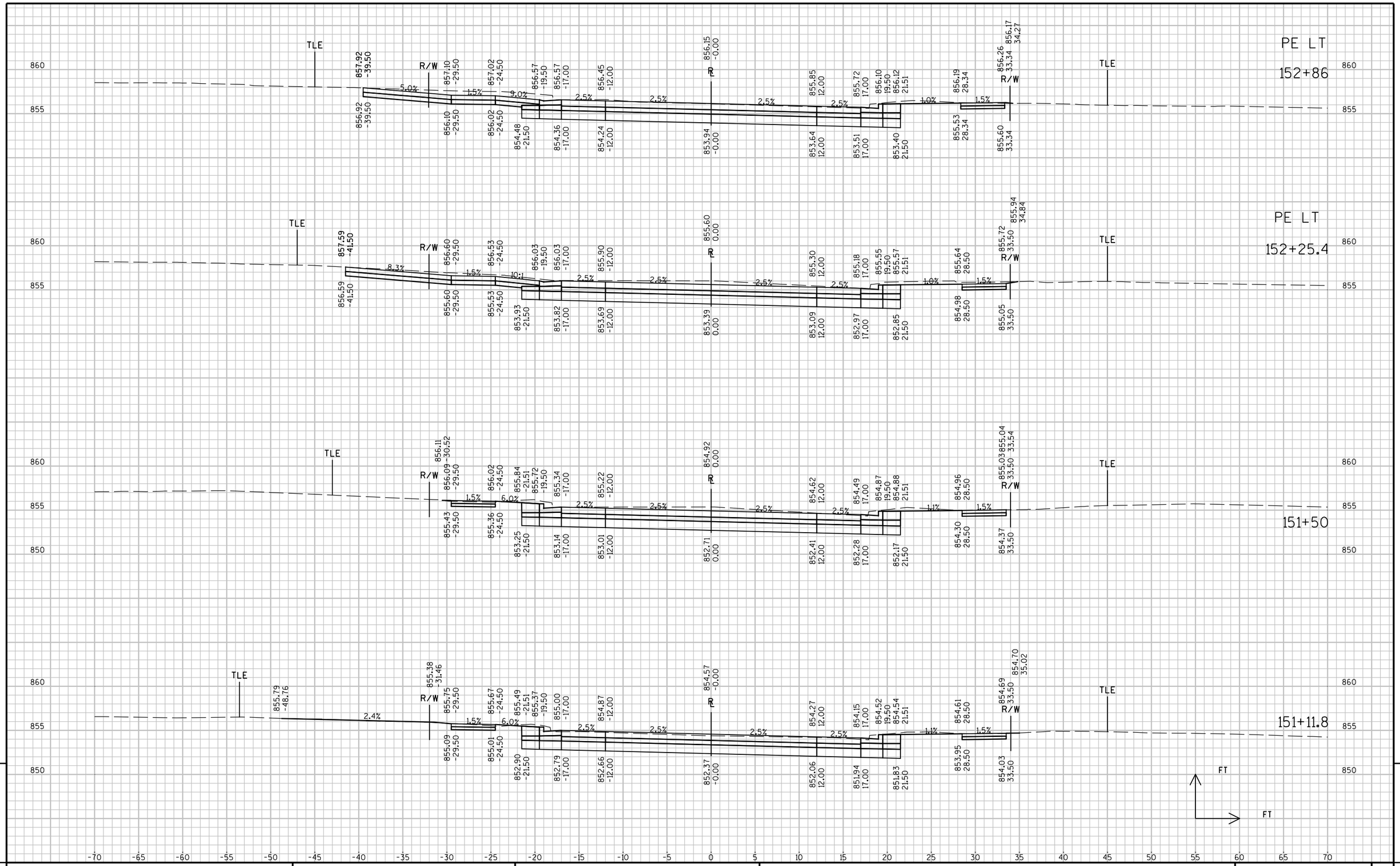
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 299 E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



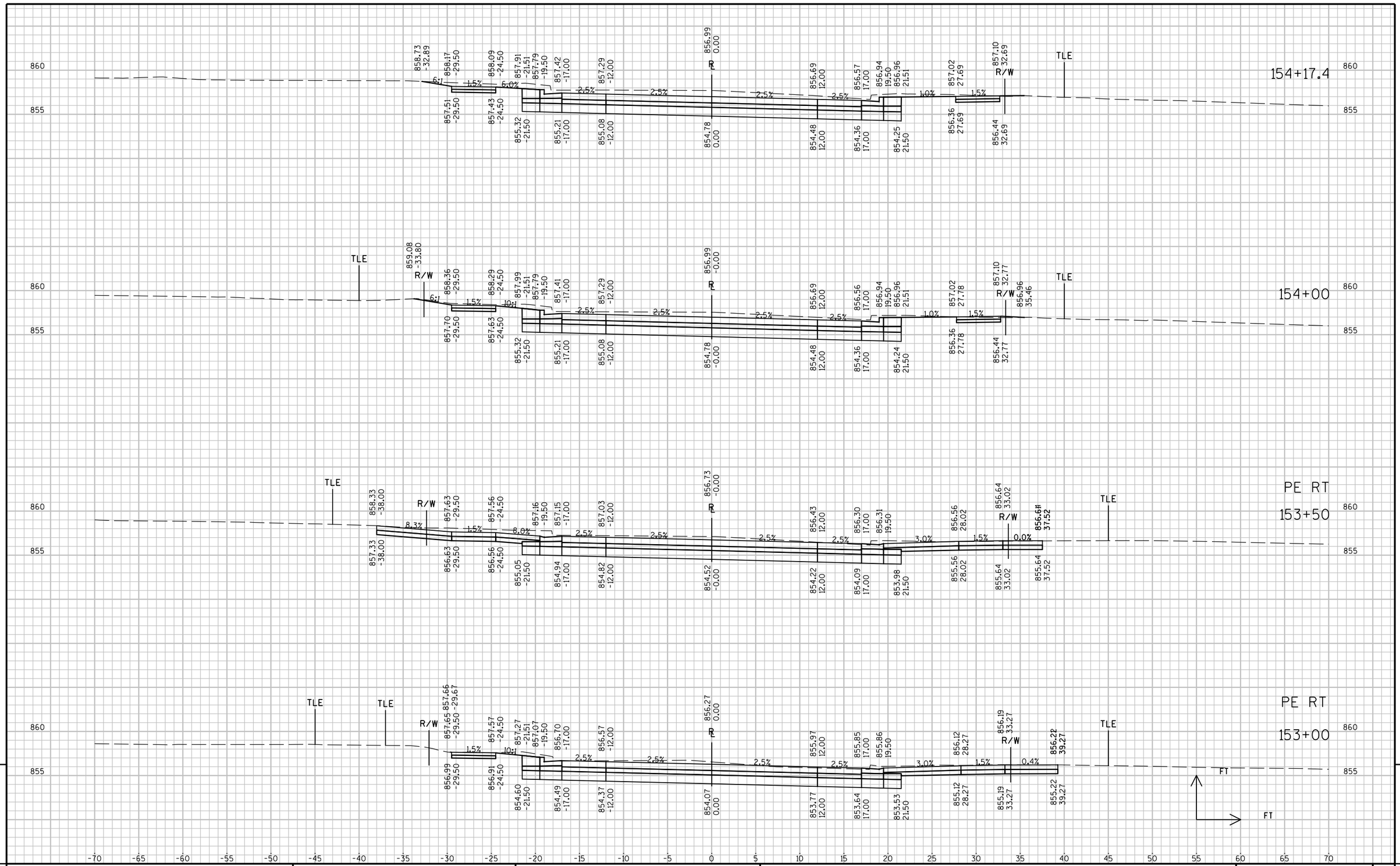
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 300	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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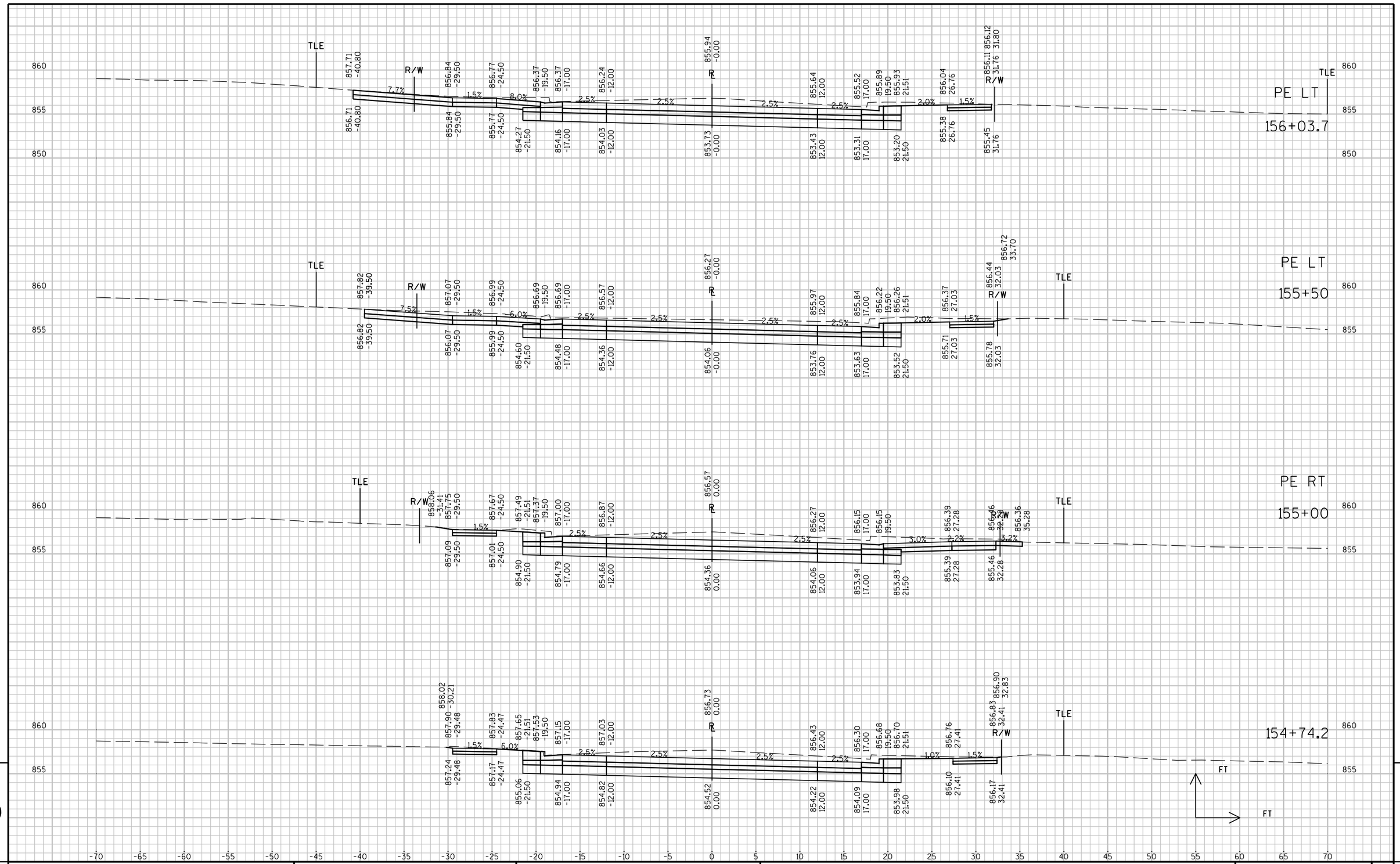
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 301	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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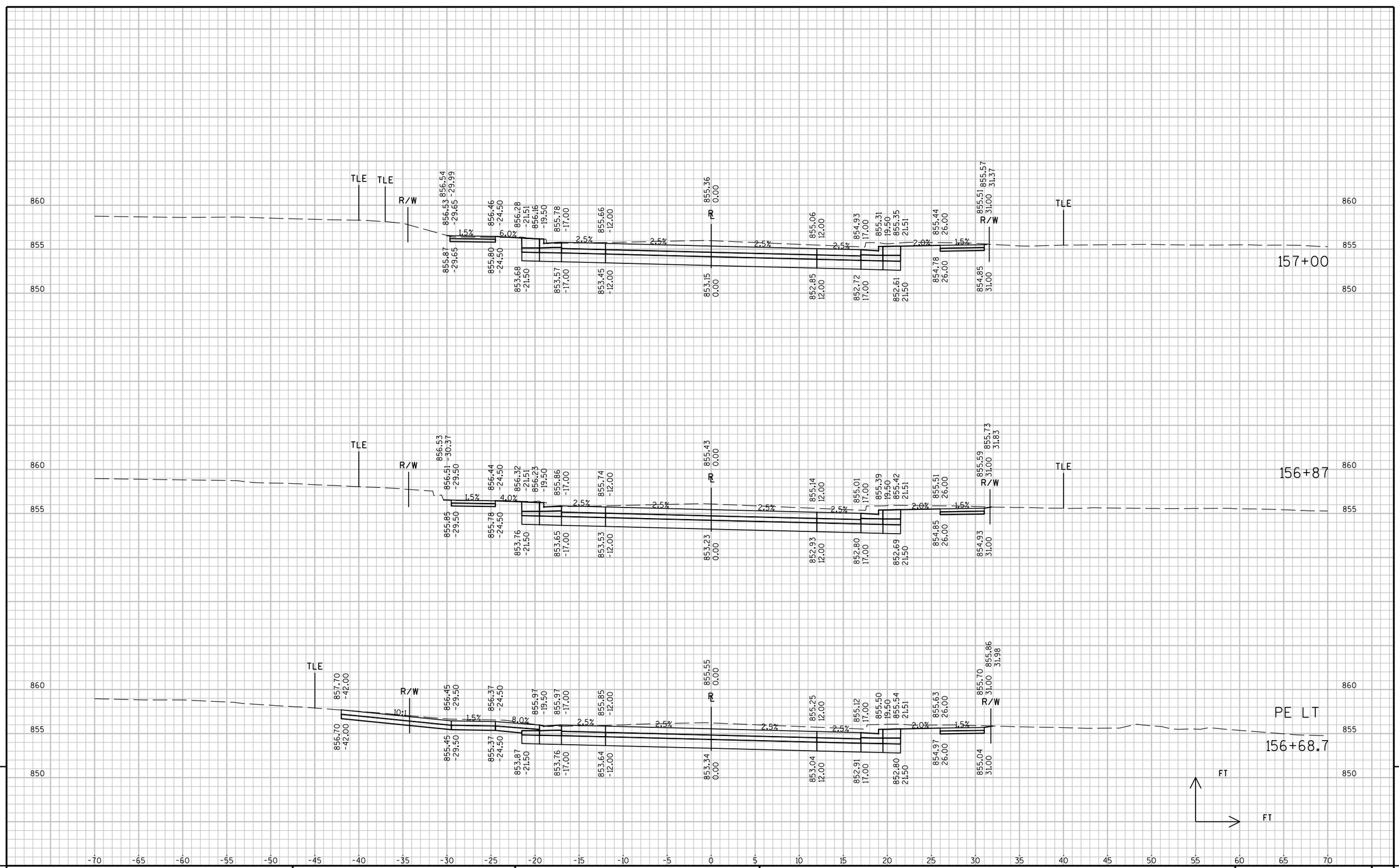
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 302	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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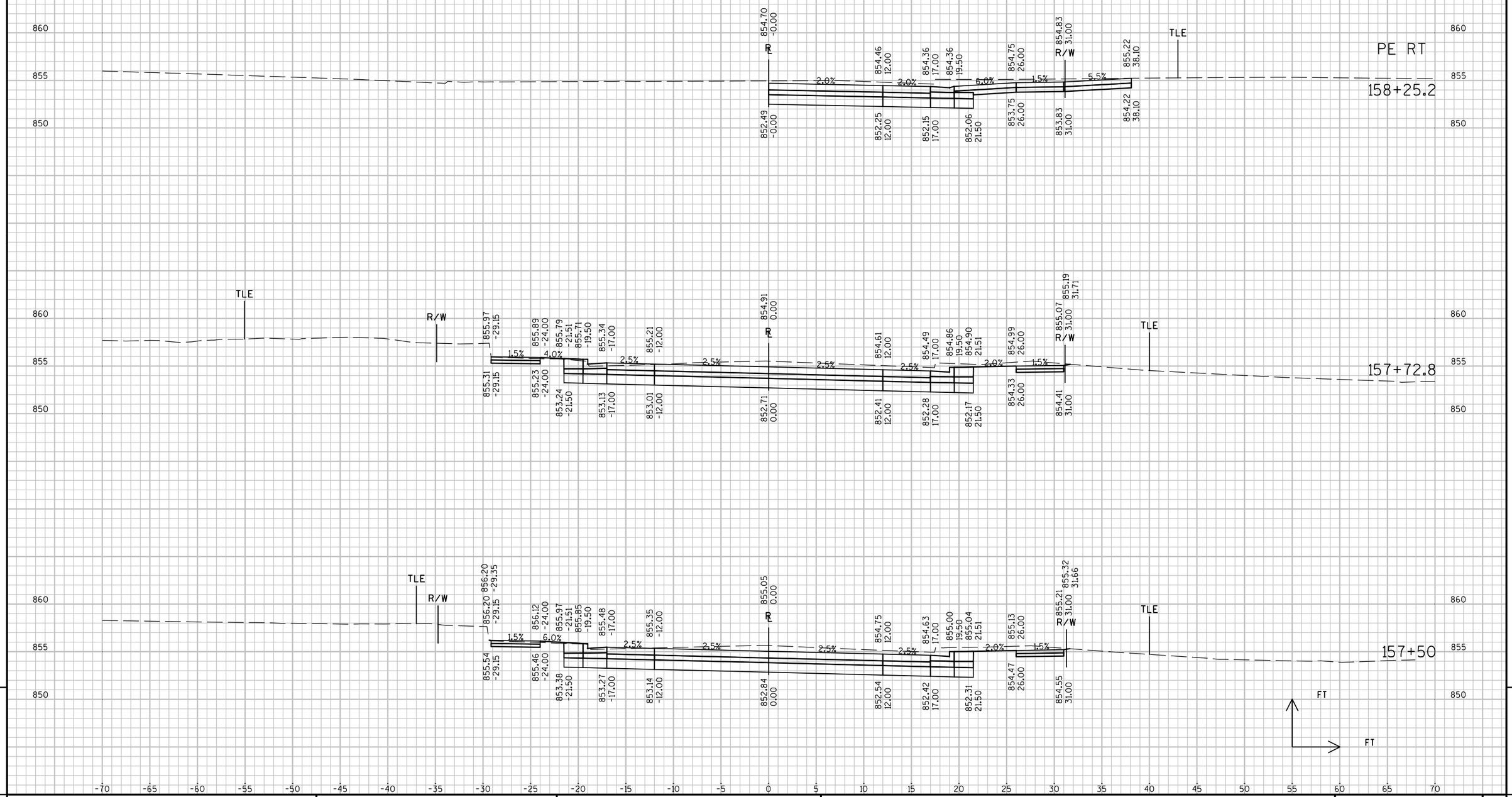
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 303	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



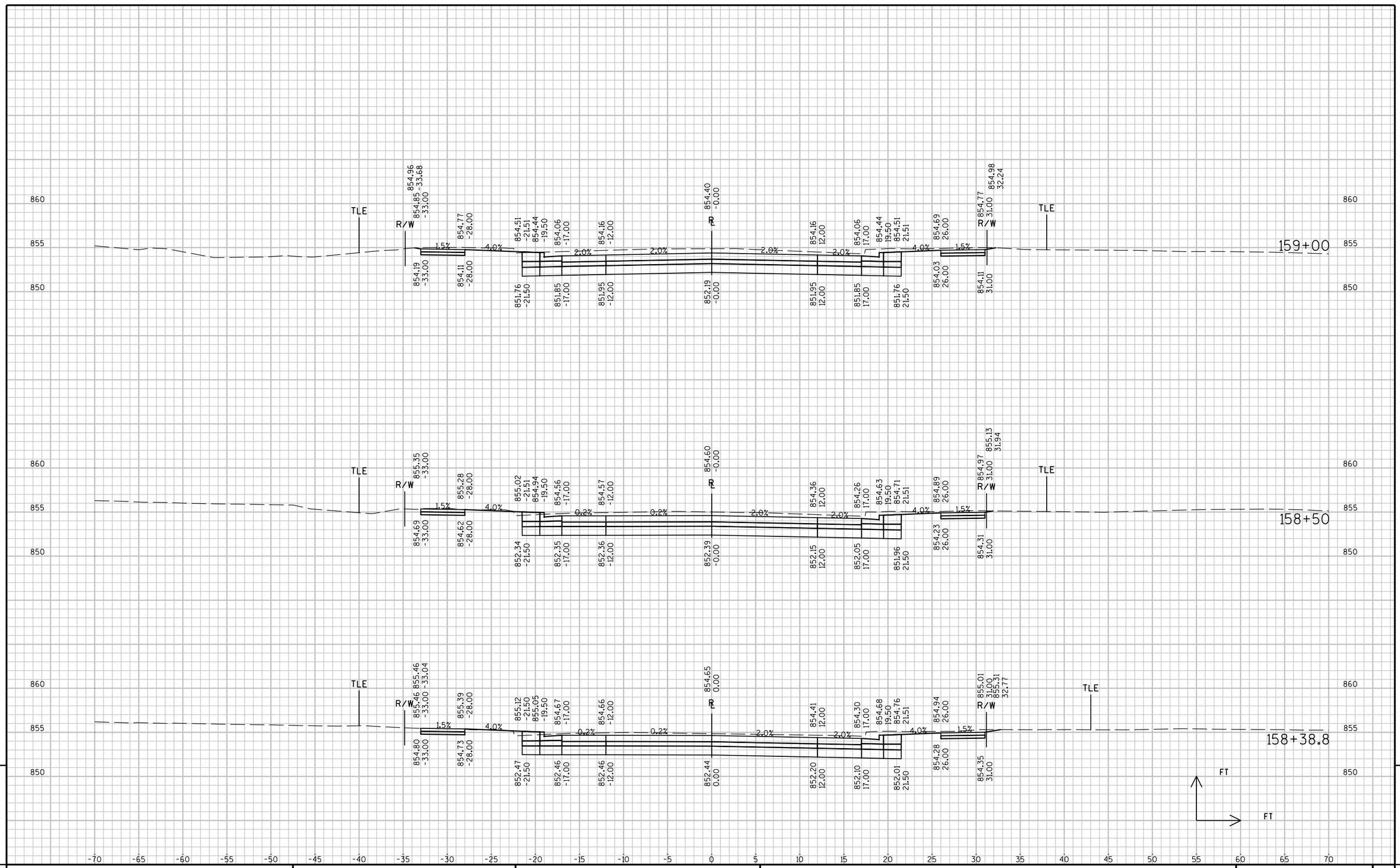
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 304	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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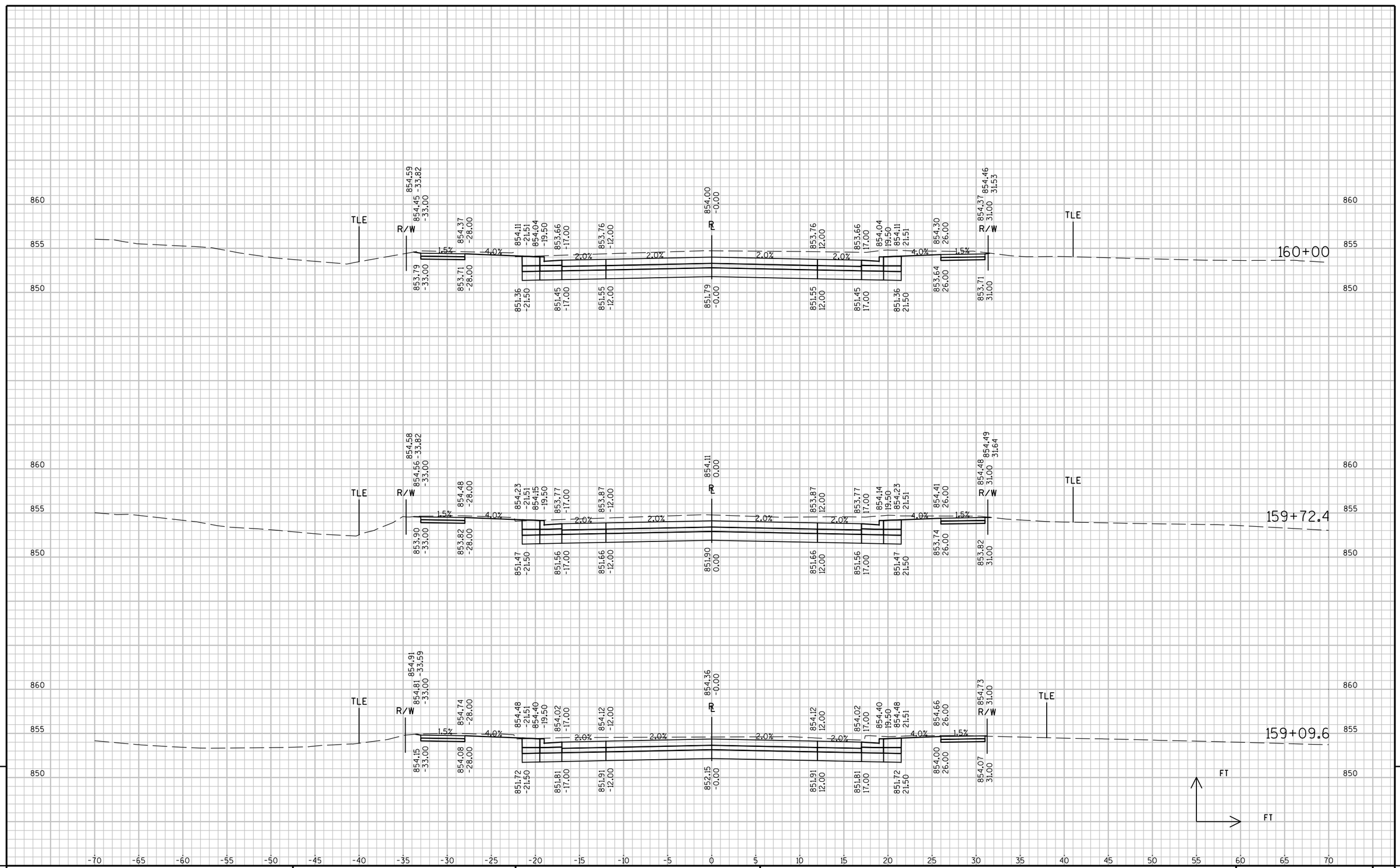
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 305	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



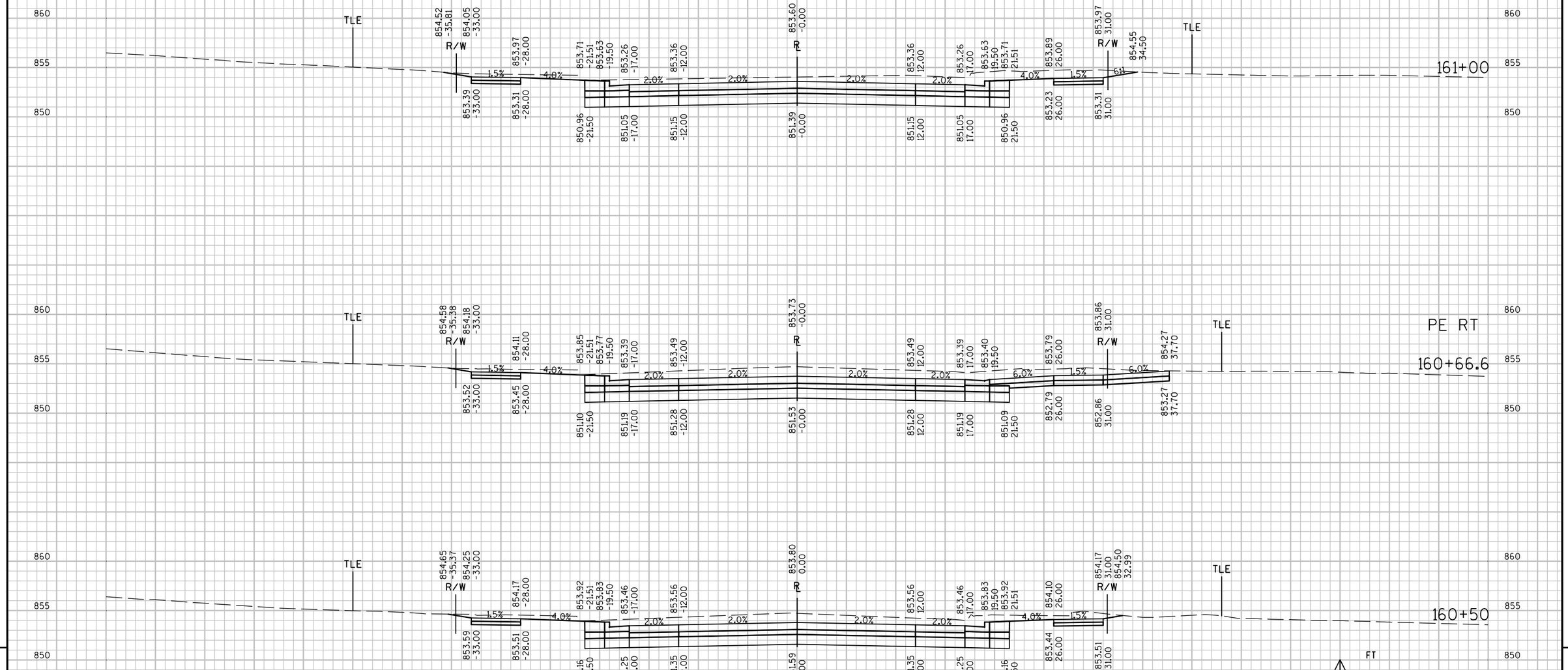
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 306	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



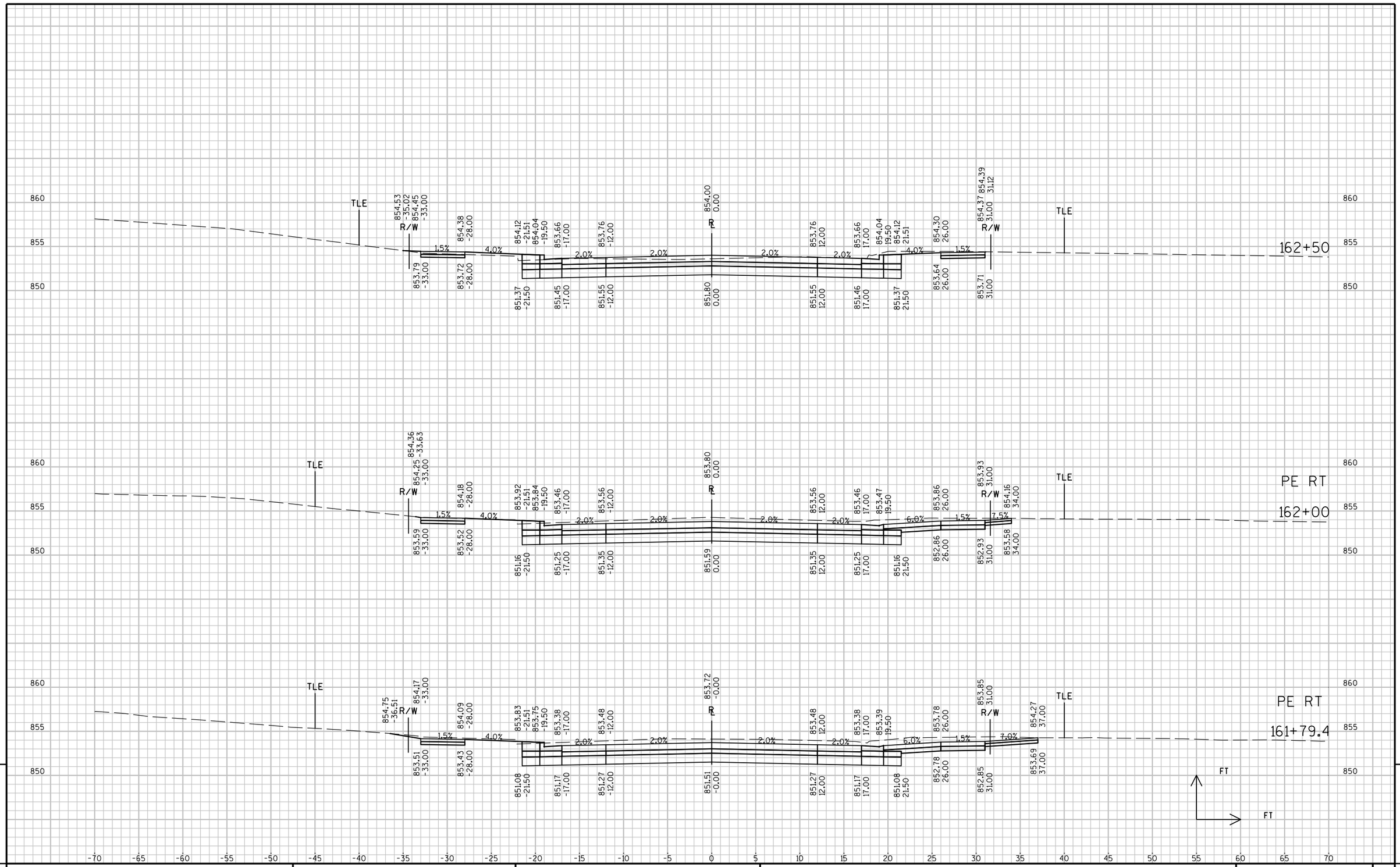
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 307	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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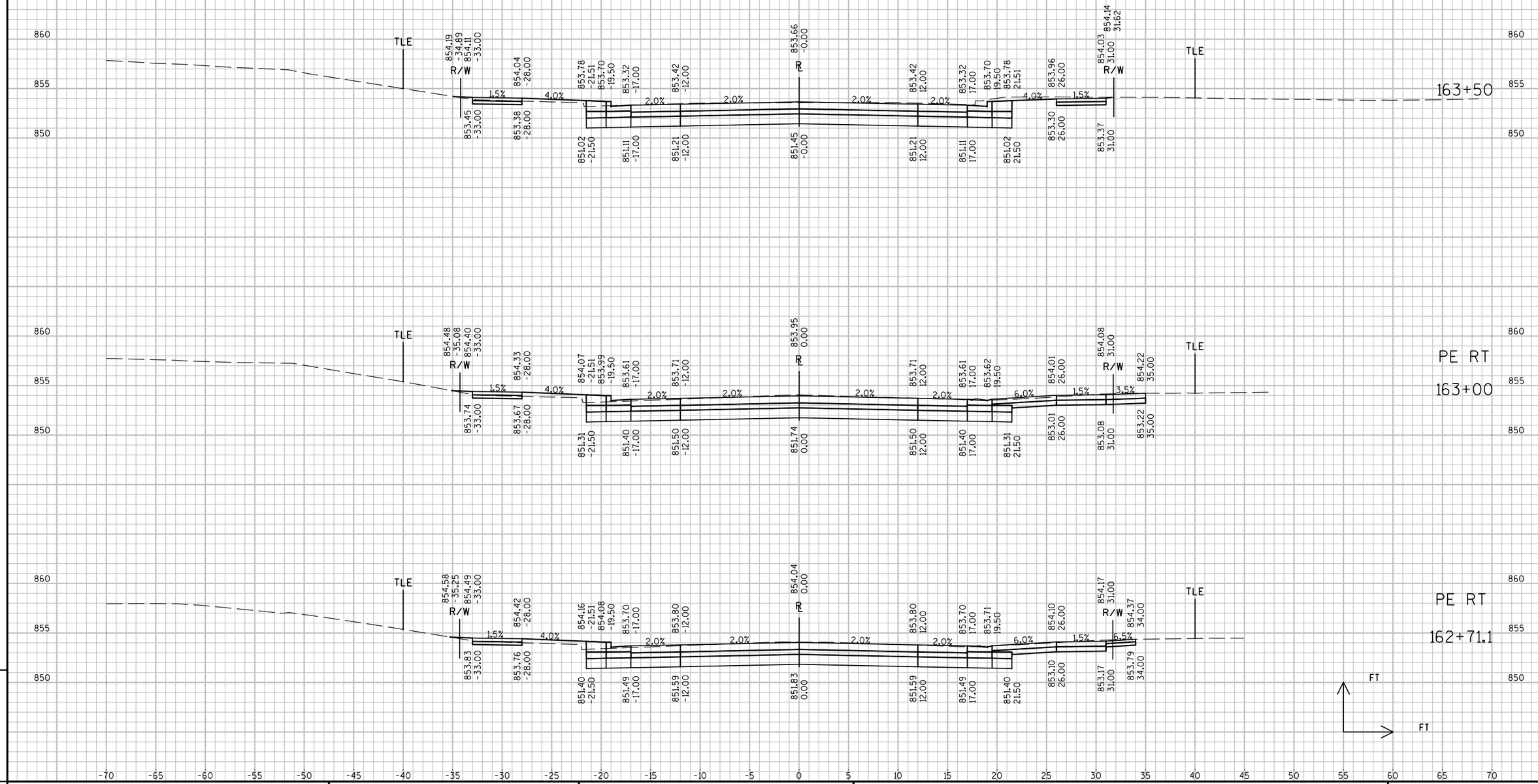
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 308	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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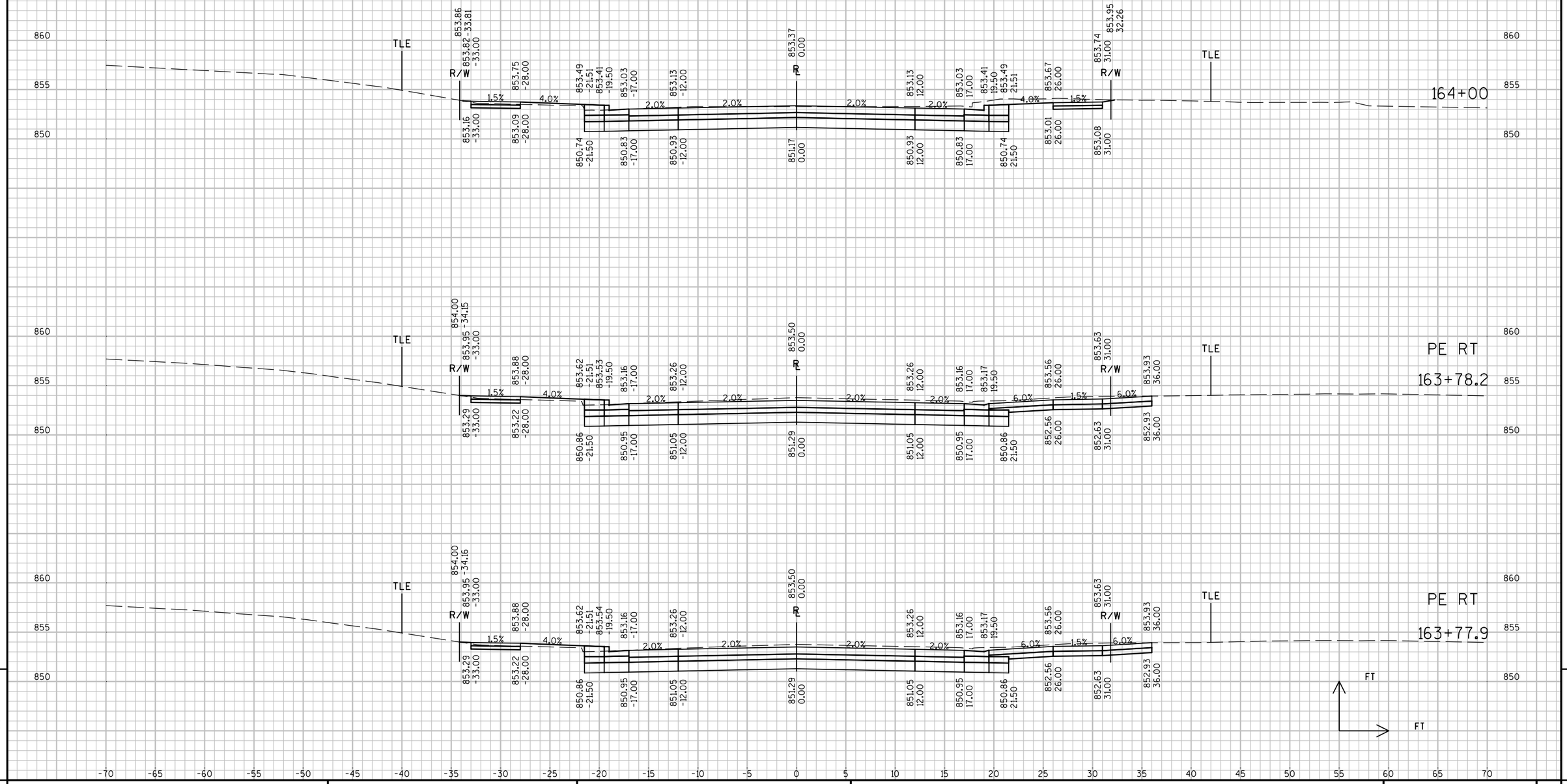
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 309	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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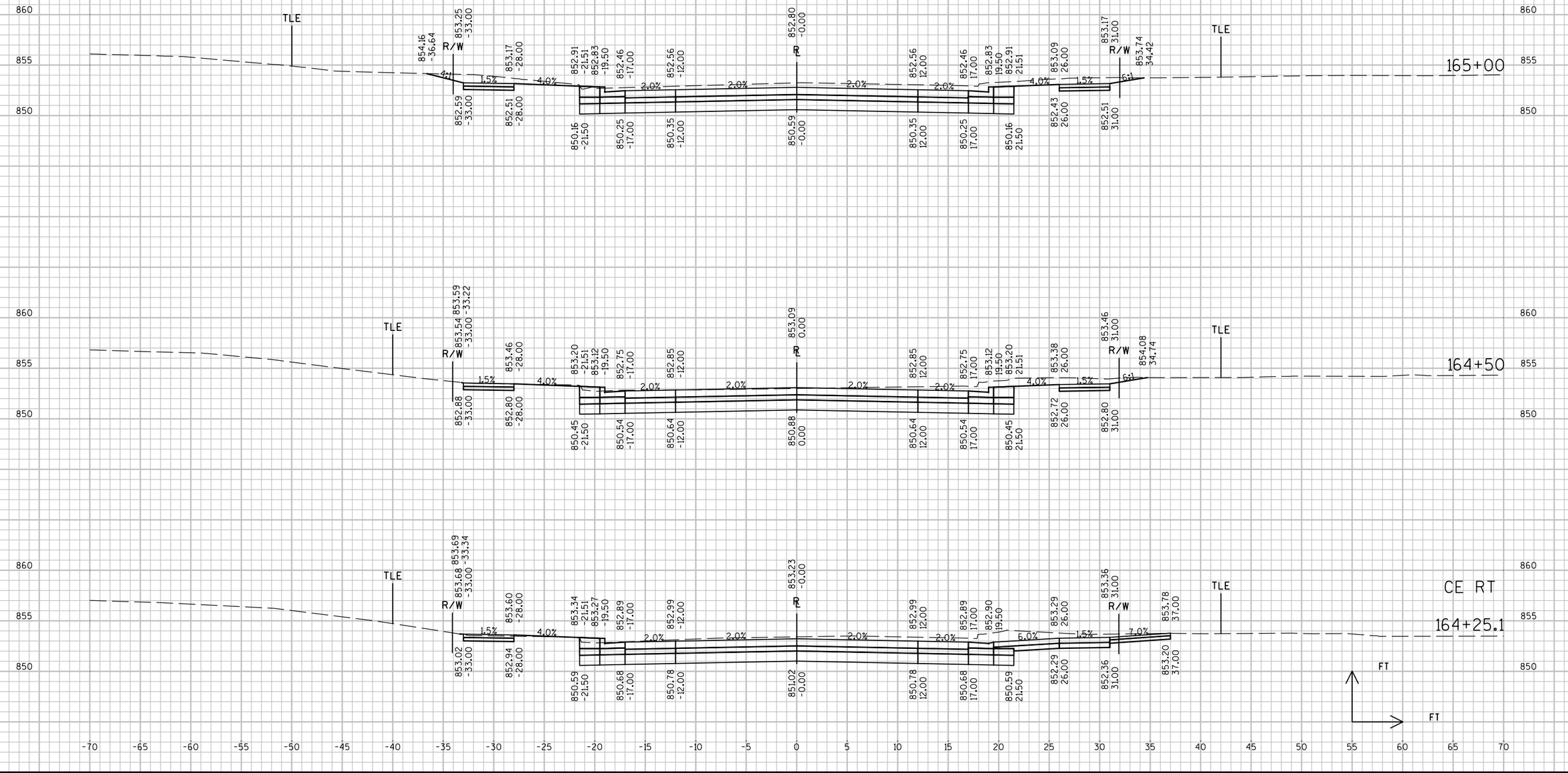
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 310	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



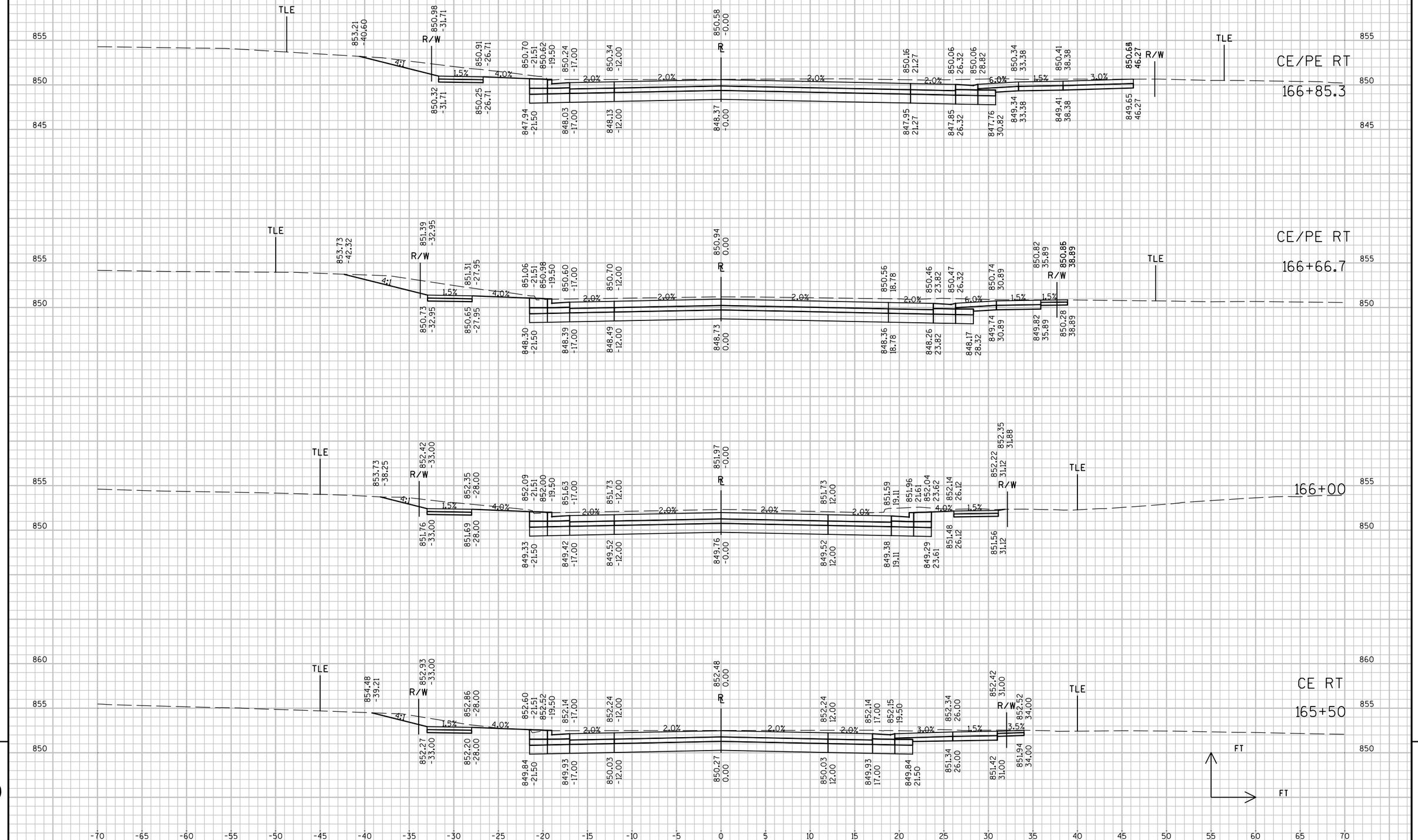
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 311	E

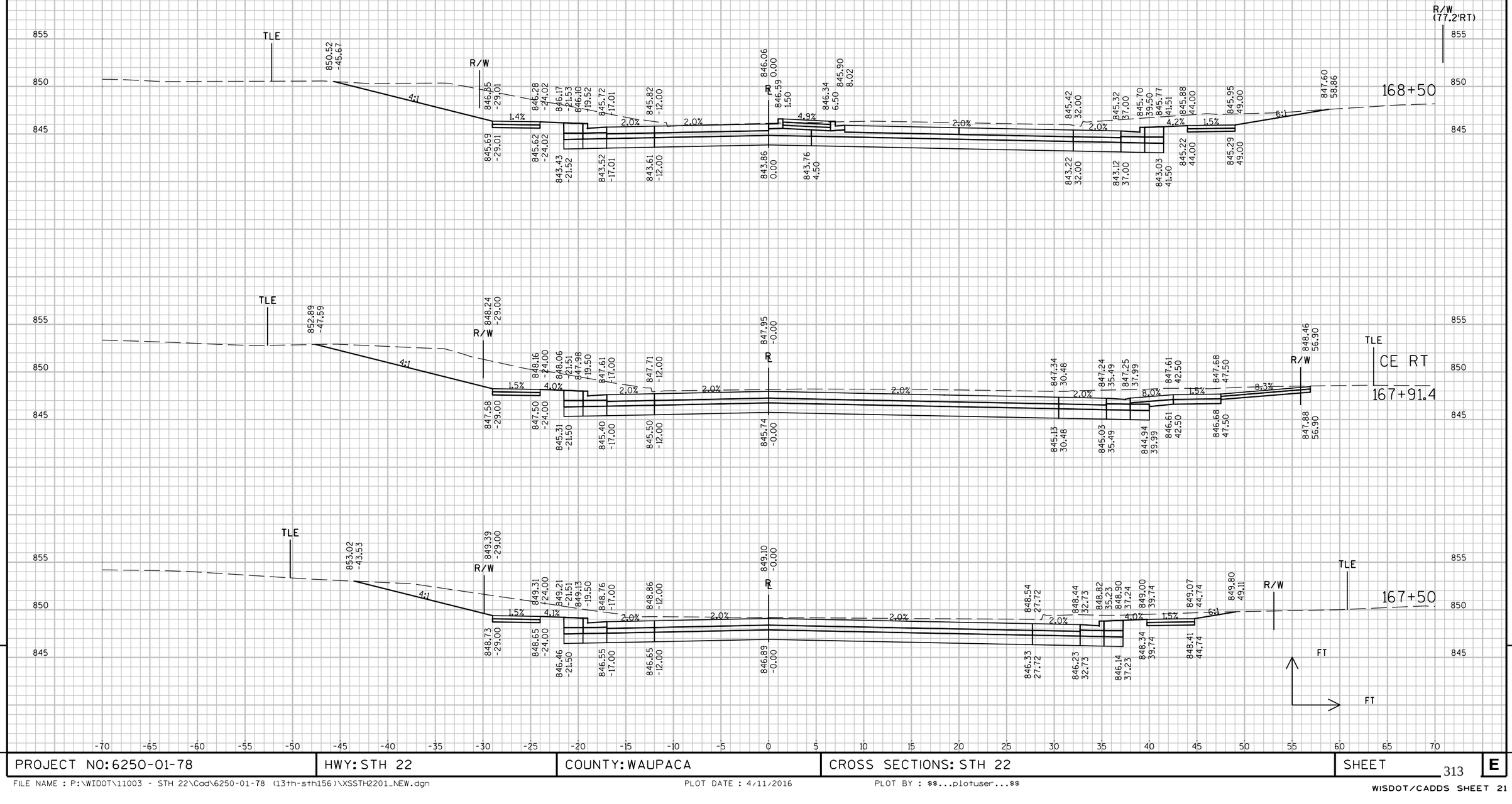
FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21


CE/PE RT
166+85.3
CE/PE RT
166+66.7
166+00
CE RT
165+50
TLE
R/W
R
4:1
1.5%
4.0%
2.0%
6.0%
3.0%
3.5%
FT



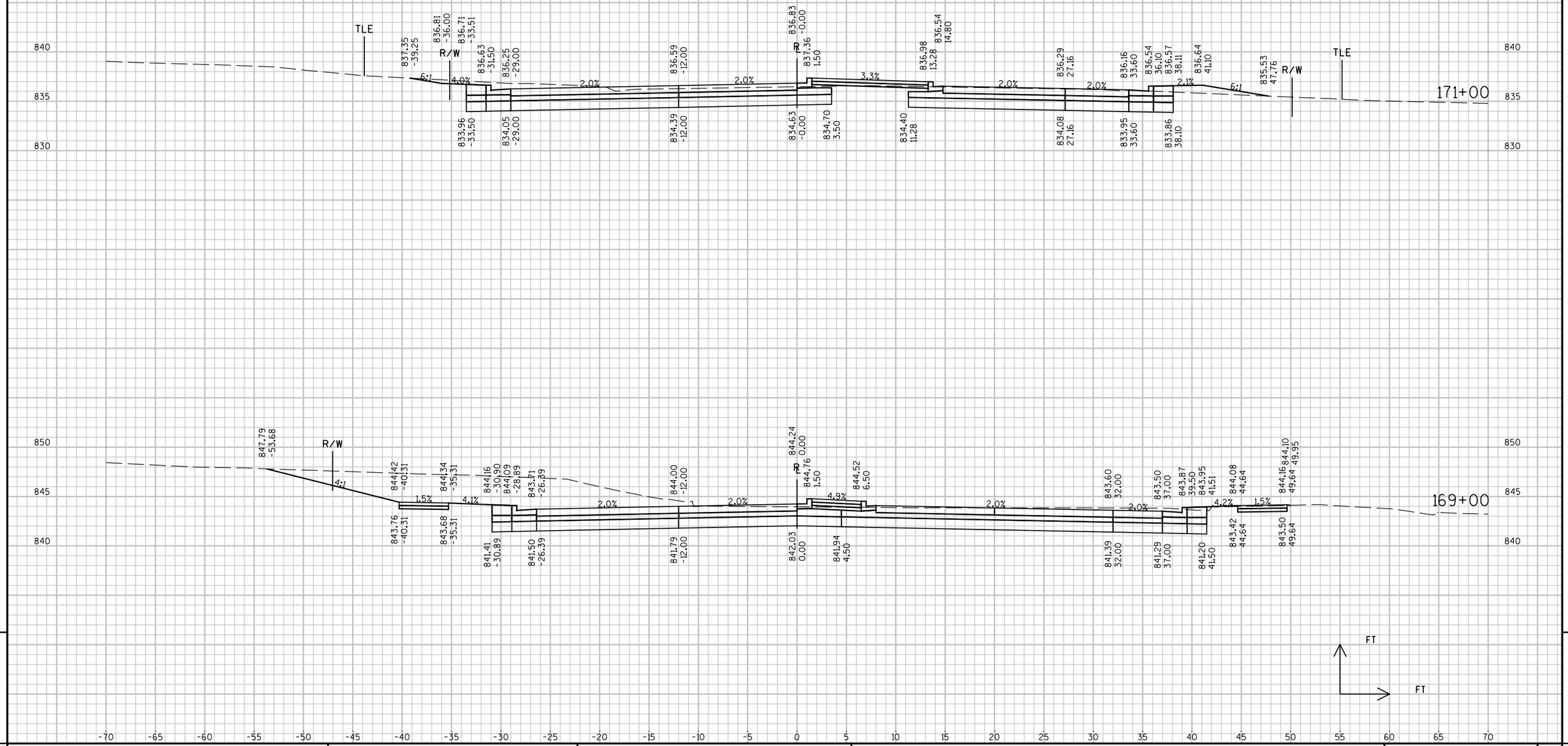
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 313	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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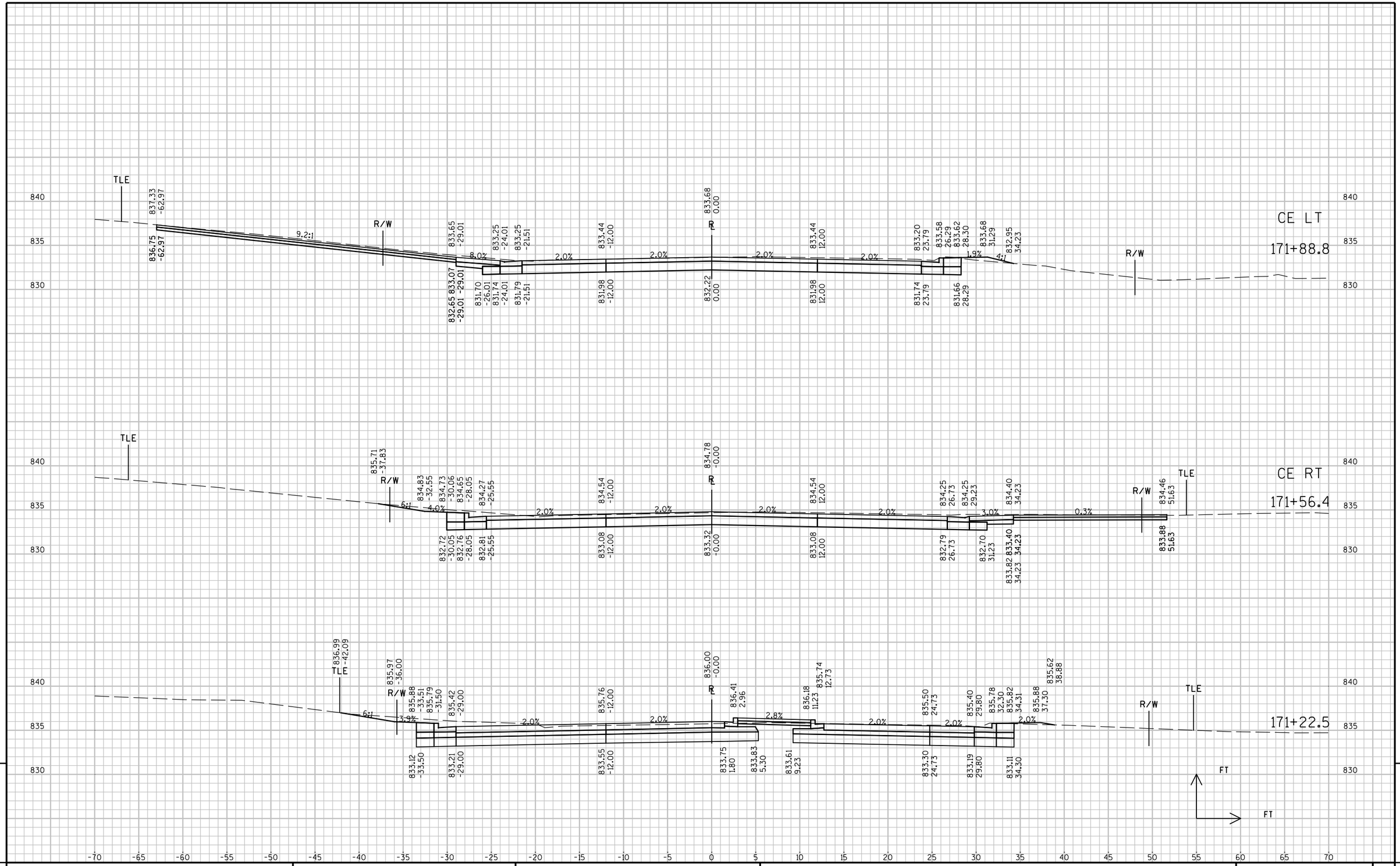
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 314	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



9

9

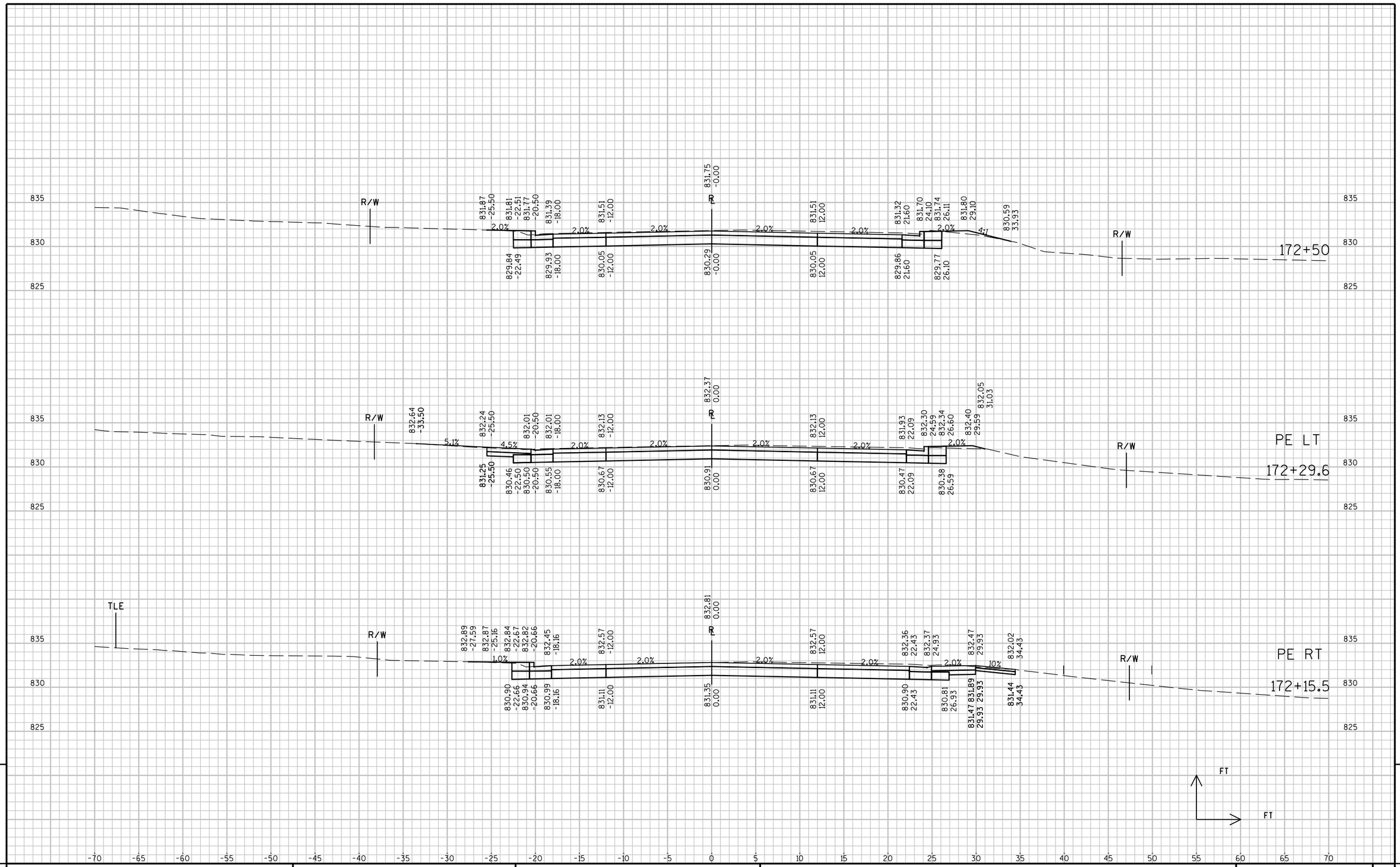
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 315	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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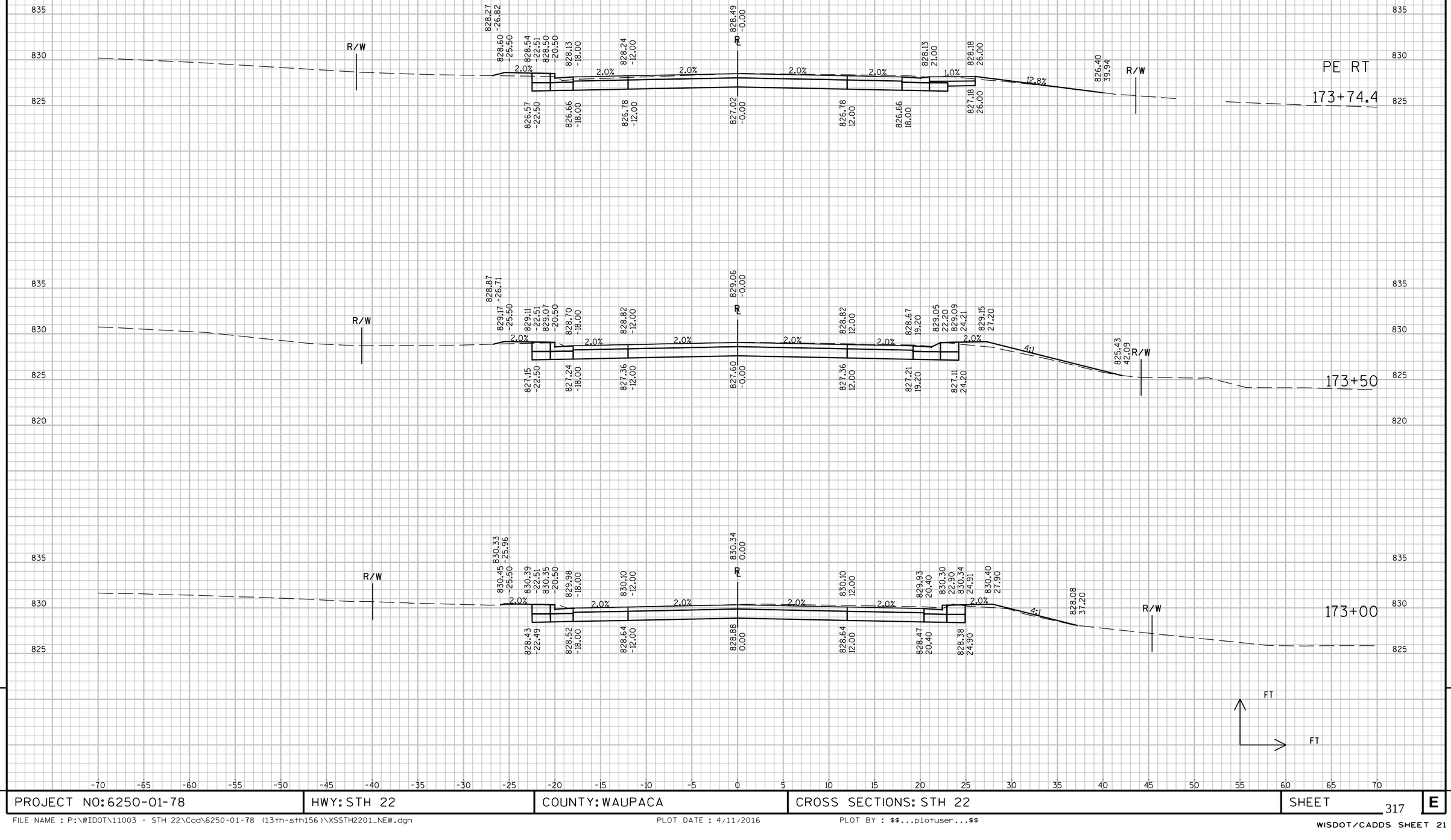
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 316	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



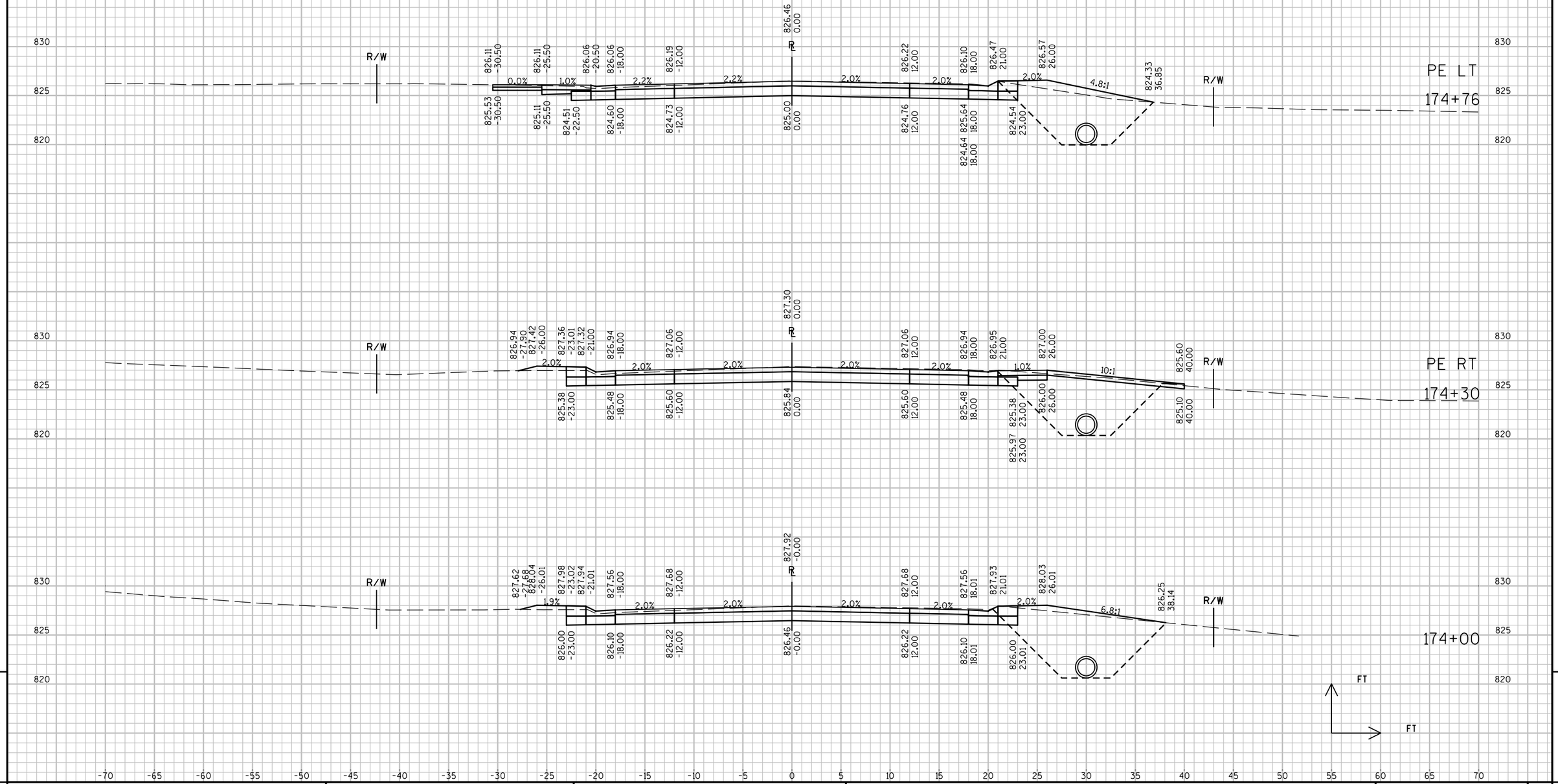
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 317	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

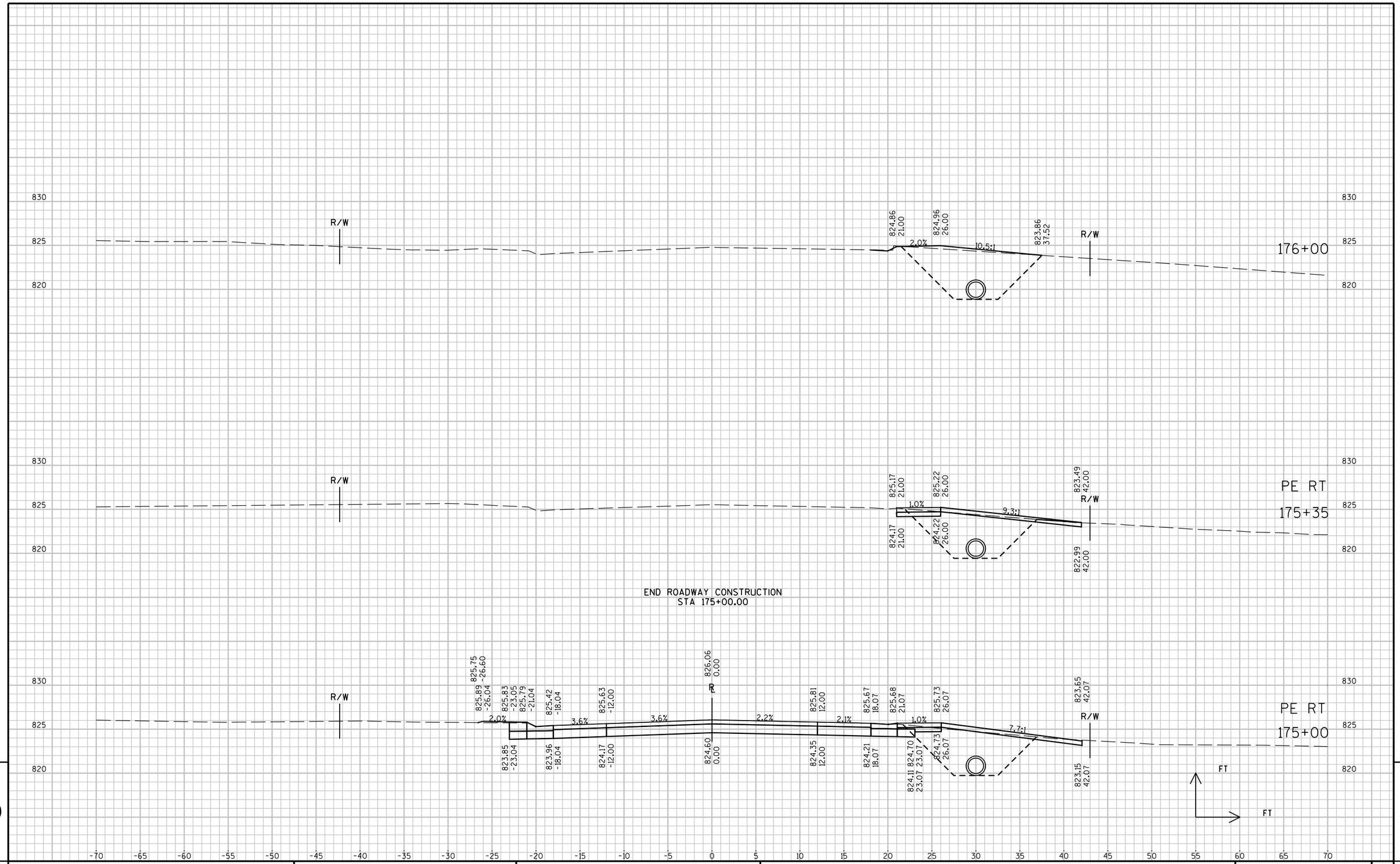
WISDOT/CADDS SHEET 21



PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 318	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn PLOT DATE : 4/11/2016 PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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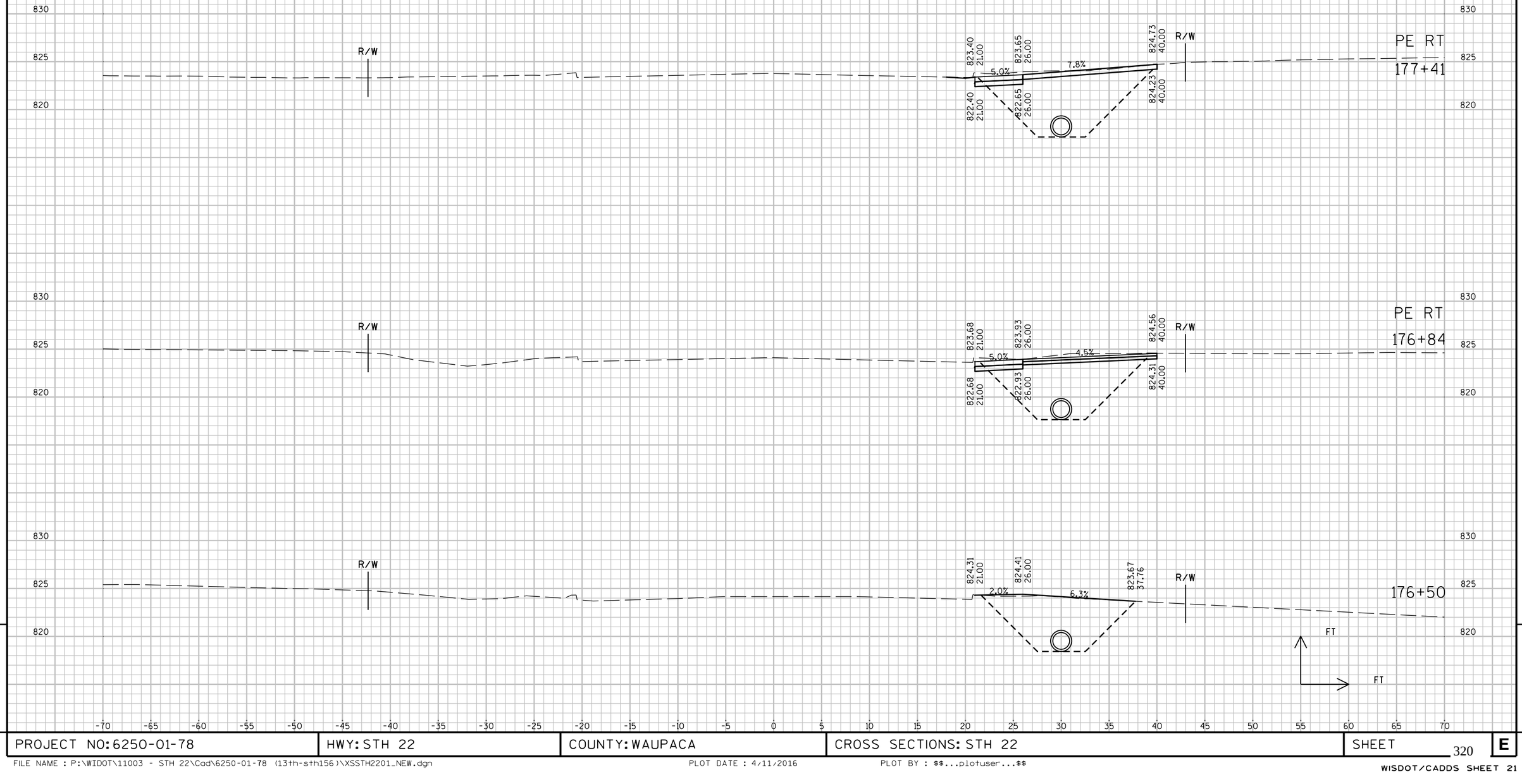
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 319	E



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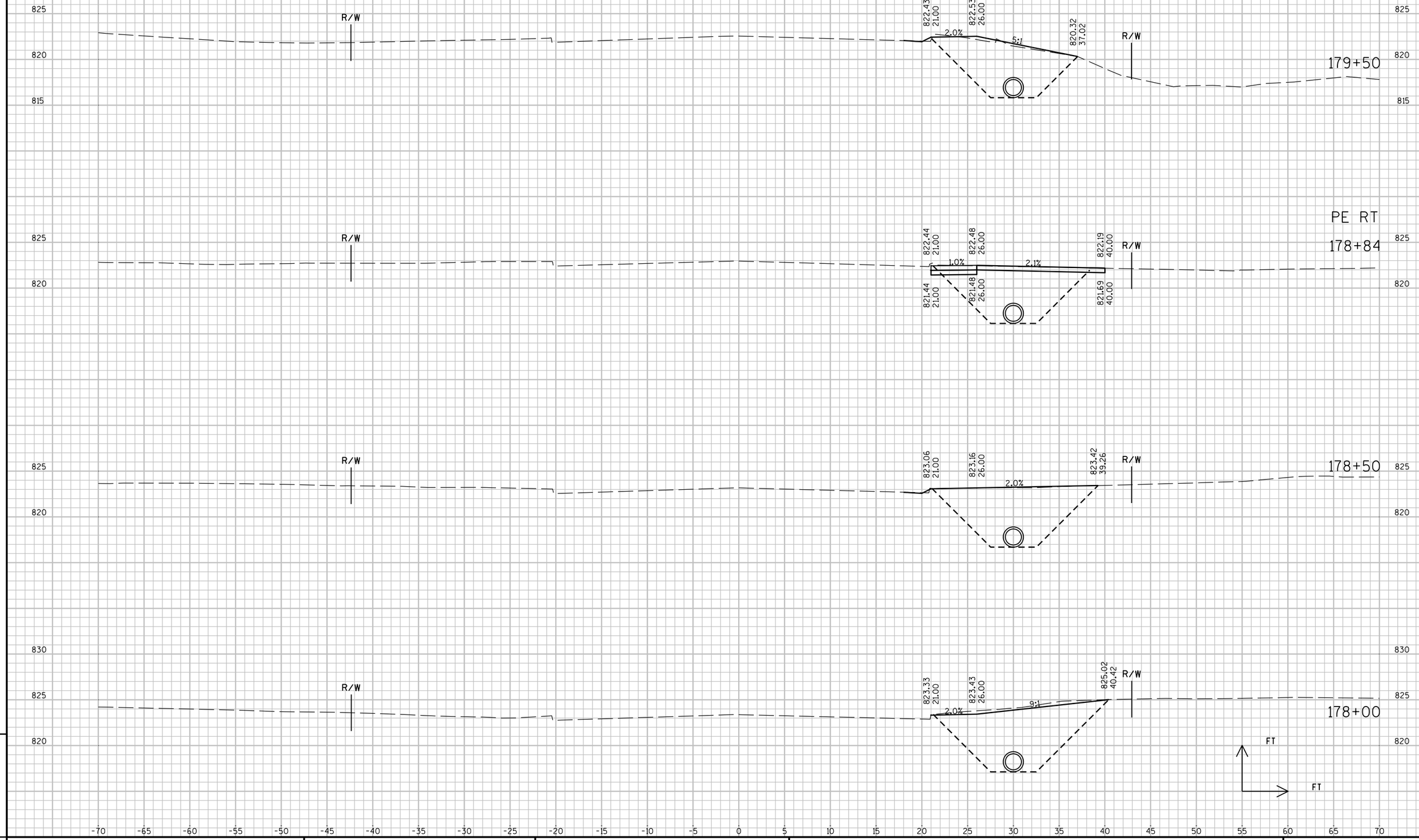
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 320	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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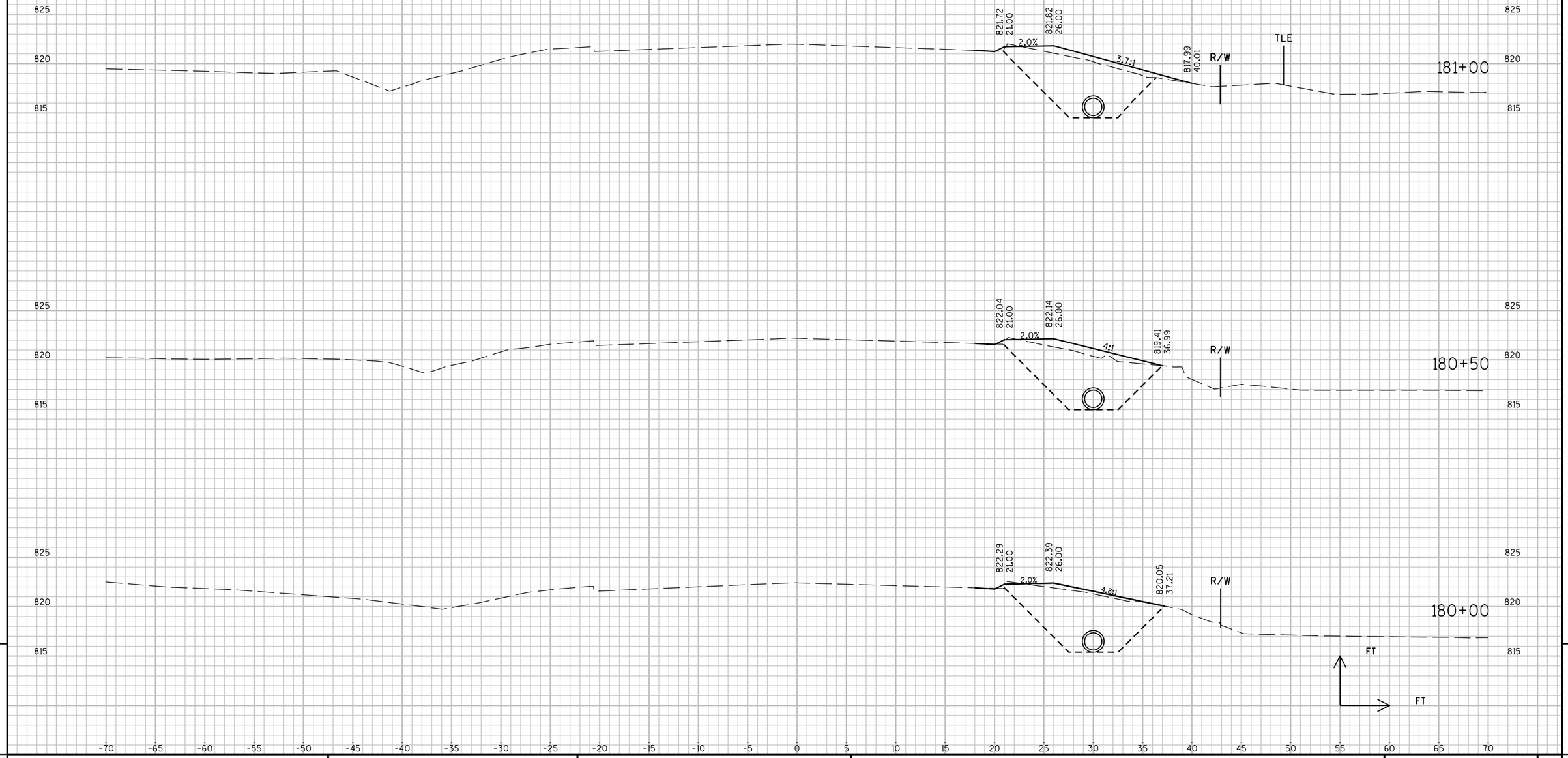
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 321	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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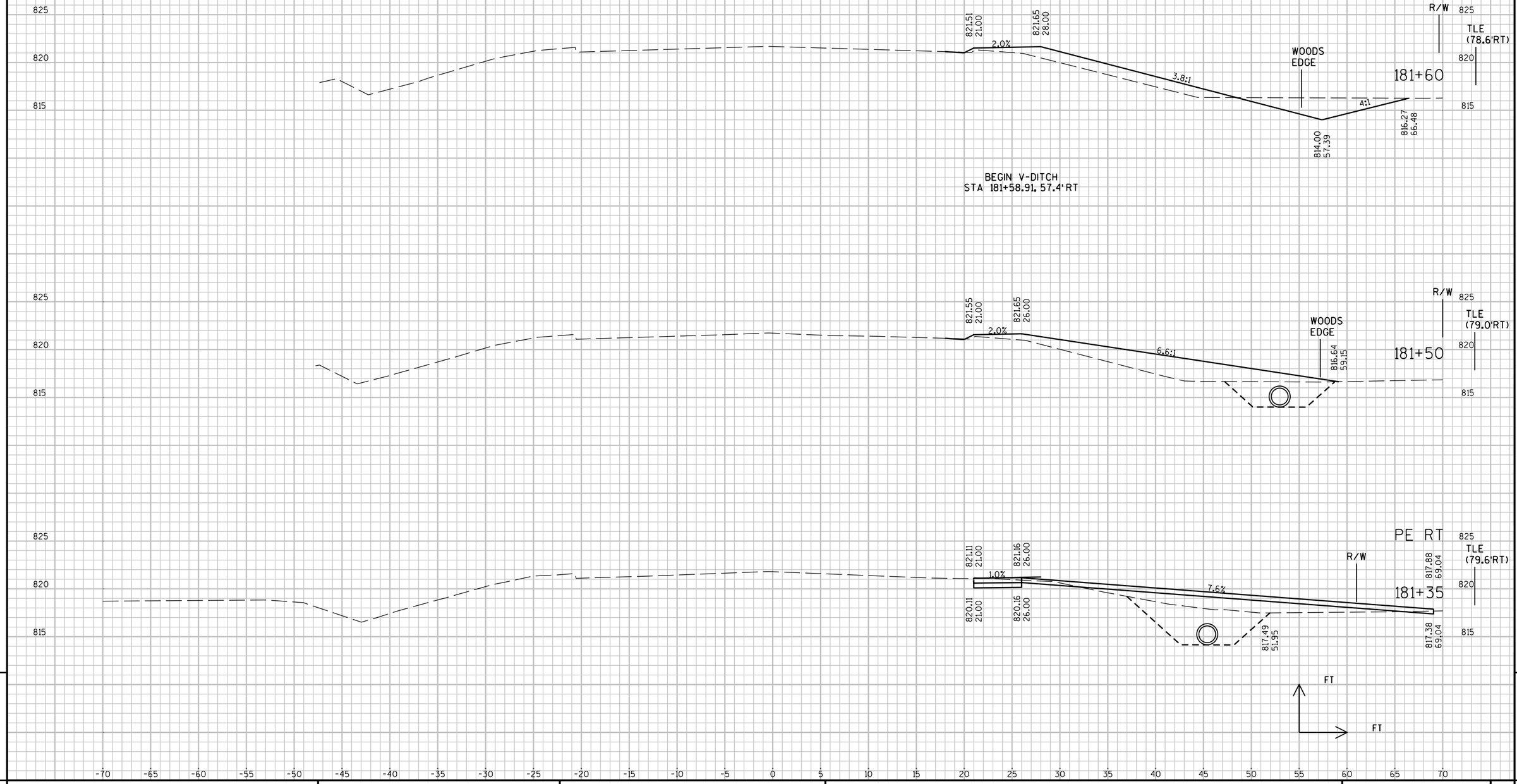
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 322	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 323	E

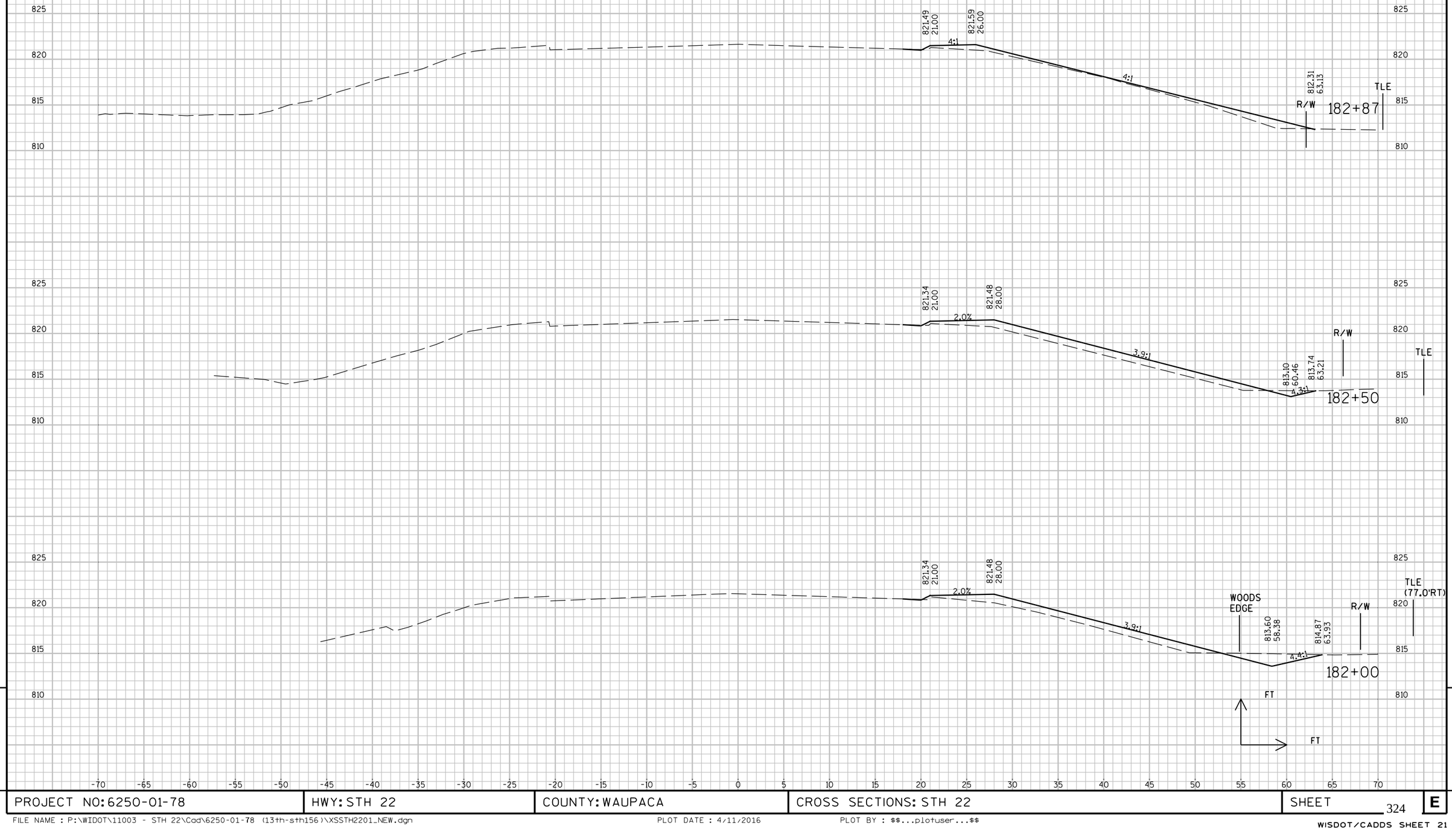
FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

END PROJECT
STA 182+86.82



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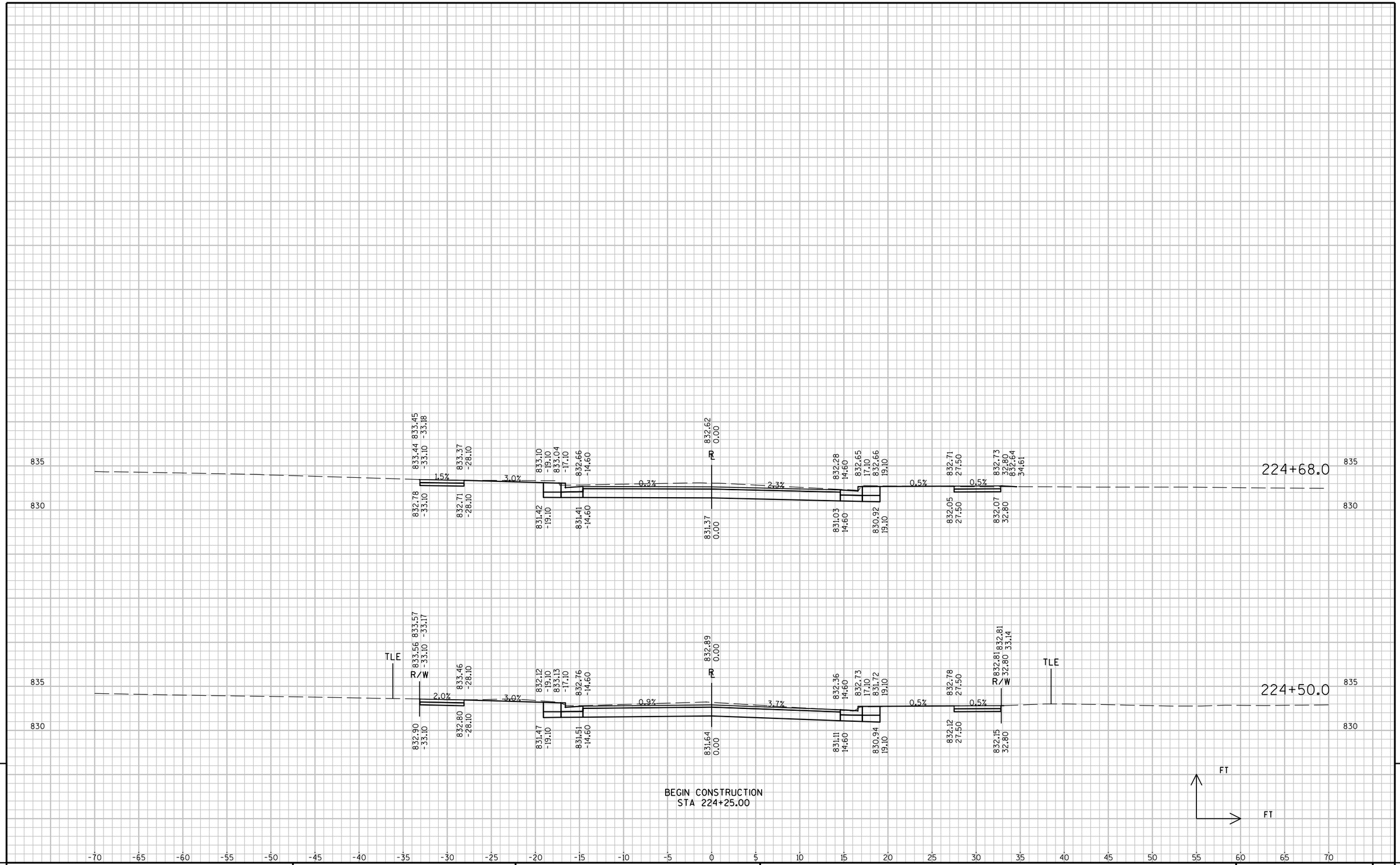
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 22	SHEET 324	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XSSTH2201_NEW.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: W 14TH ST	SHEET 325	E

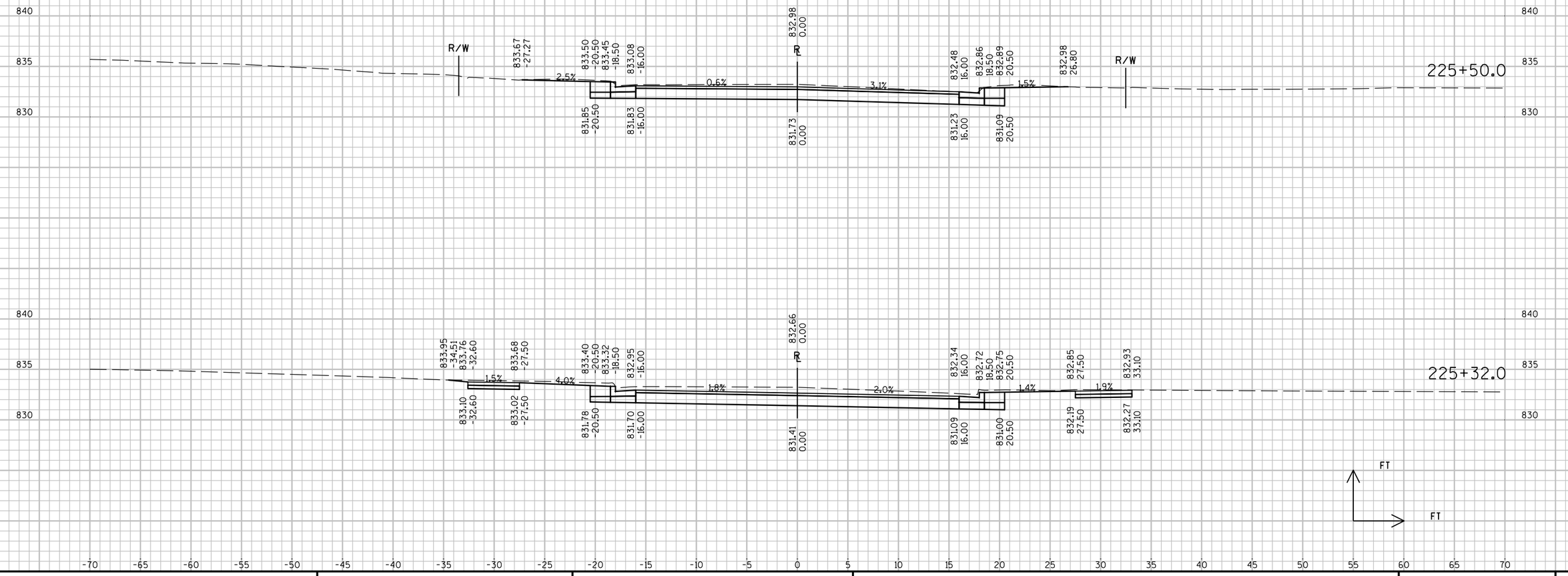
FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS_14TH_W.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA 225+75.00



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PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: E 14TH ST	SHEET 326	E

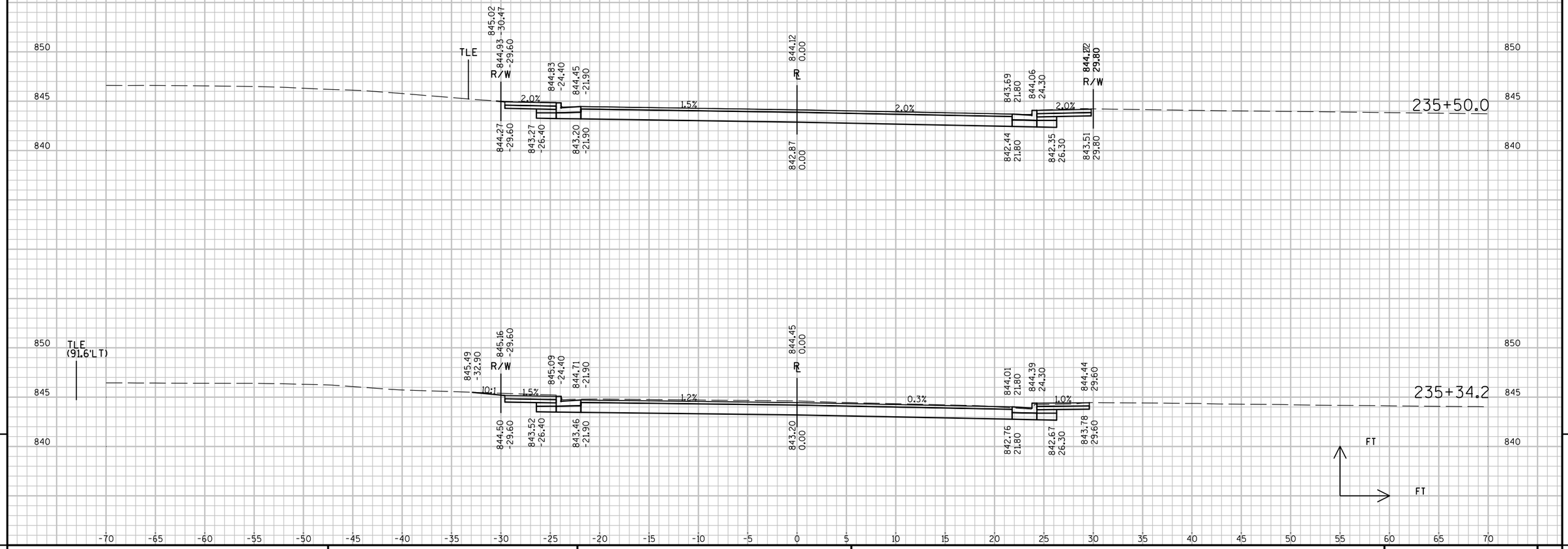
FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS_14TH_E.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA 235+58.00

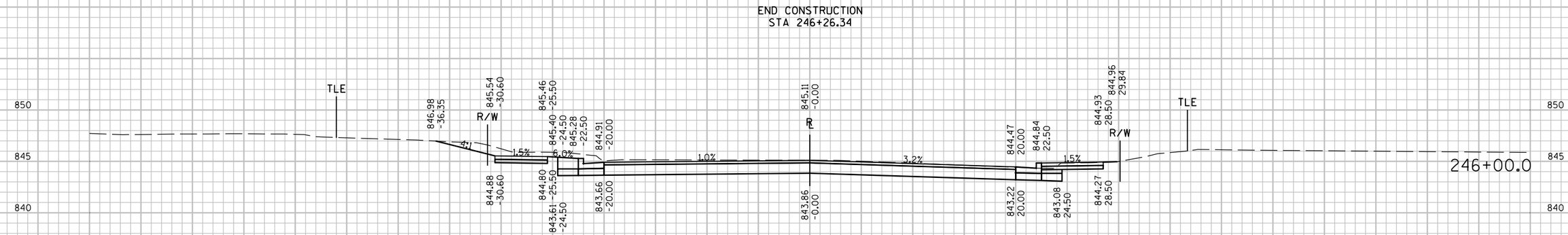


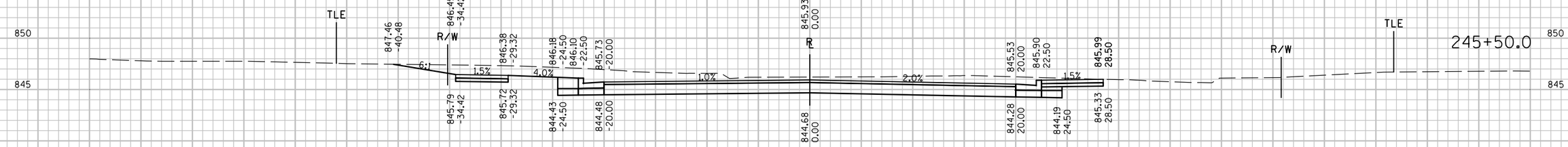
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: 15TH ST	SHEET 327	E

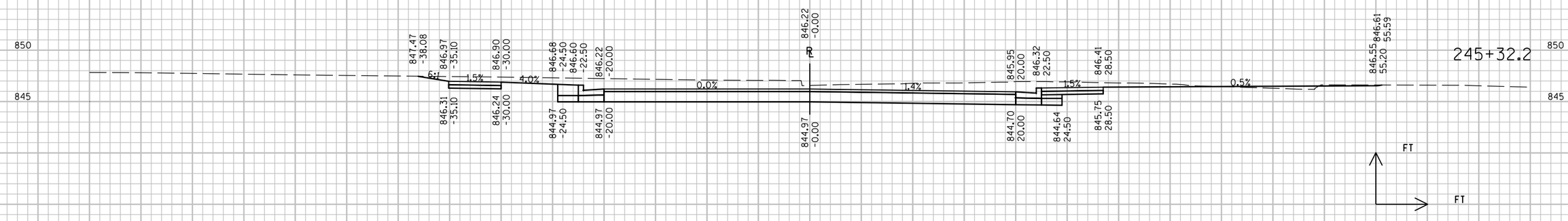
FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS_15TH.dgn
PLOT DATE : 4/11/2016
PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA 246+26.34

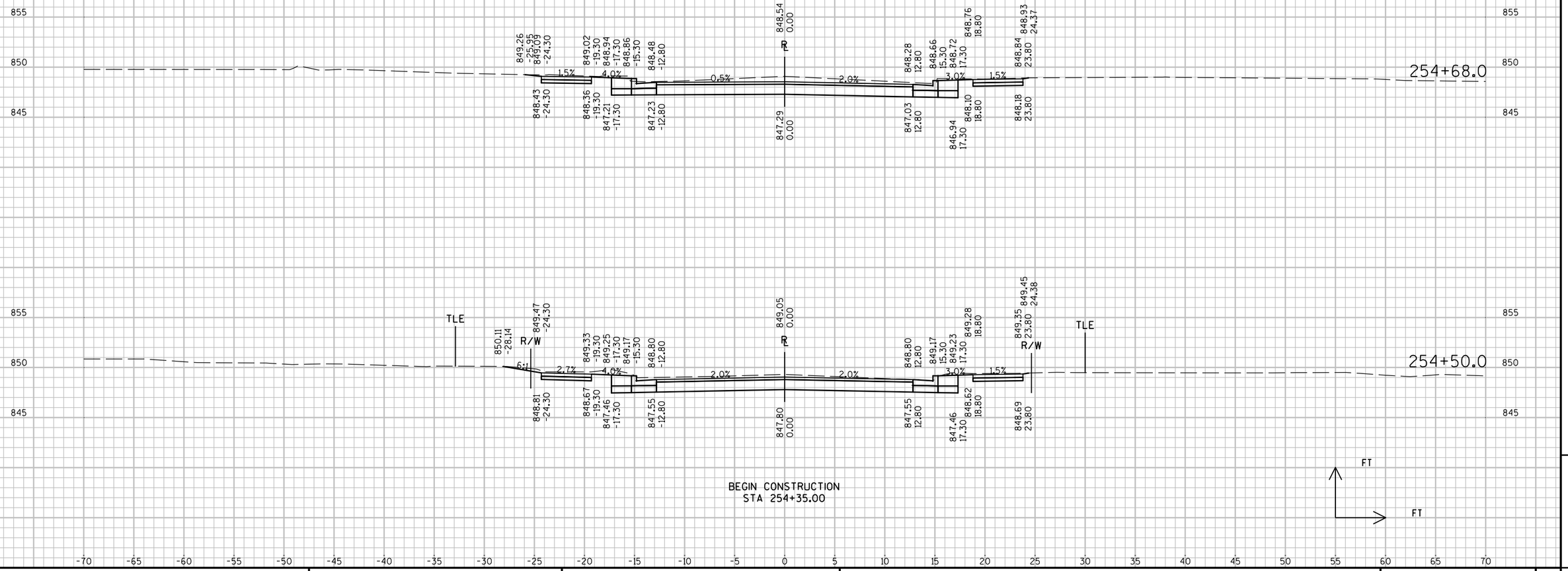






PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: 16TH ST	SHEET 328	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS_16TH.dgn
PLOT DATE : 4/11/2016
PLOT BY : $$...plotuser...$$
WISDOT/CADDS SHEET 21



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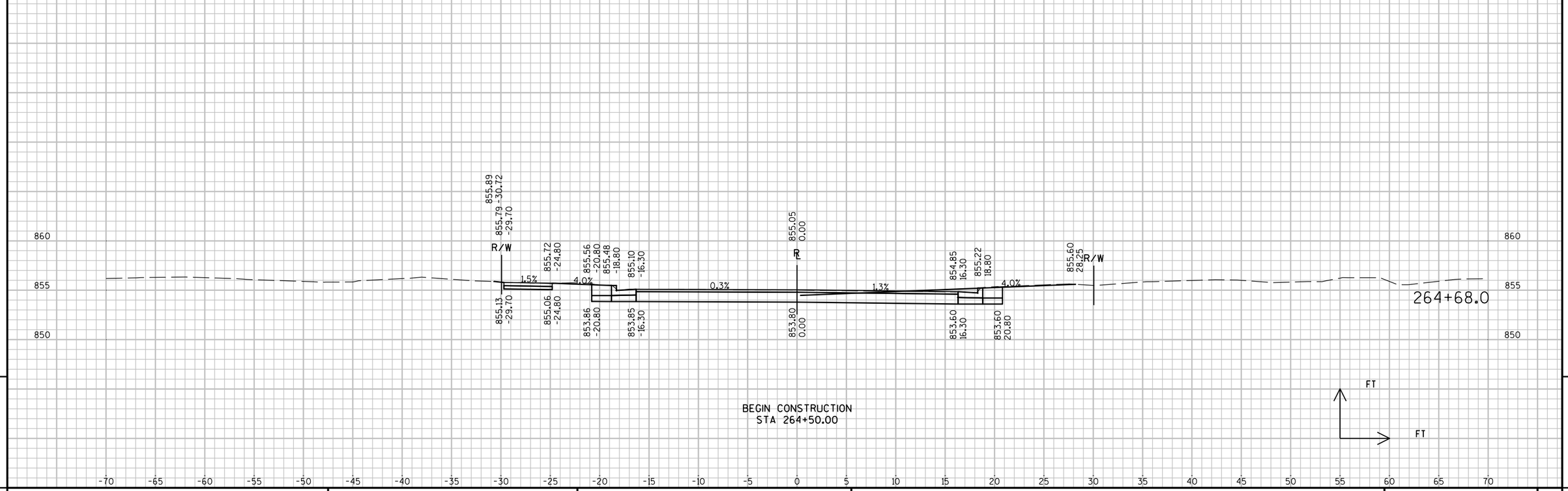
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: HARRIET ST	SHEET 329	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS_HARRIET.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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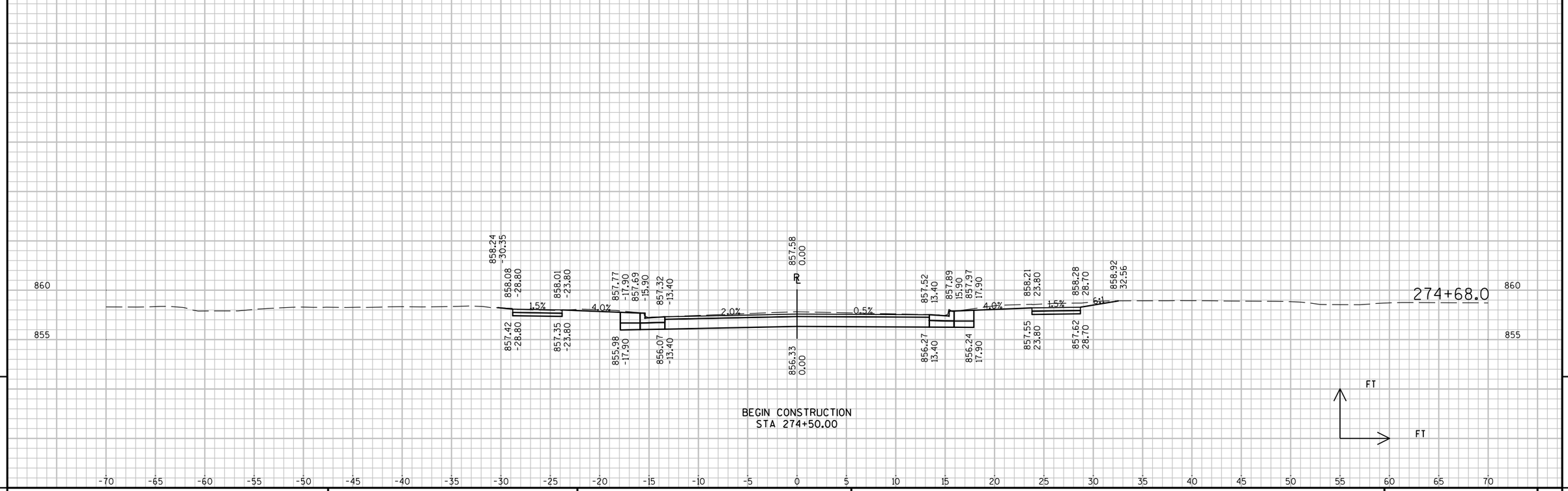
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: 17TH ST	SHEET 330	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS_17TH.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: 18TH ST	SHEET 331	E

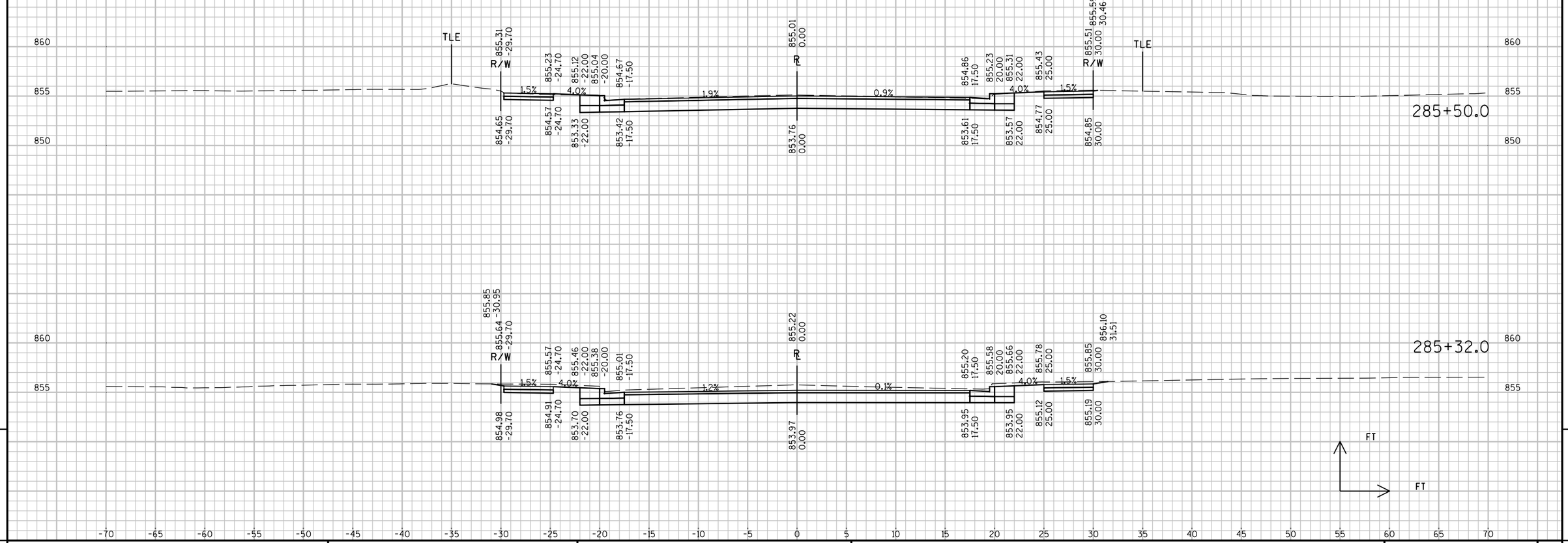
FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS_18TH.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA 285+65.00



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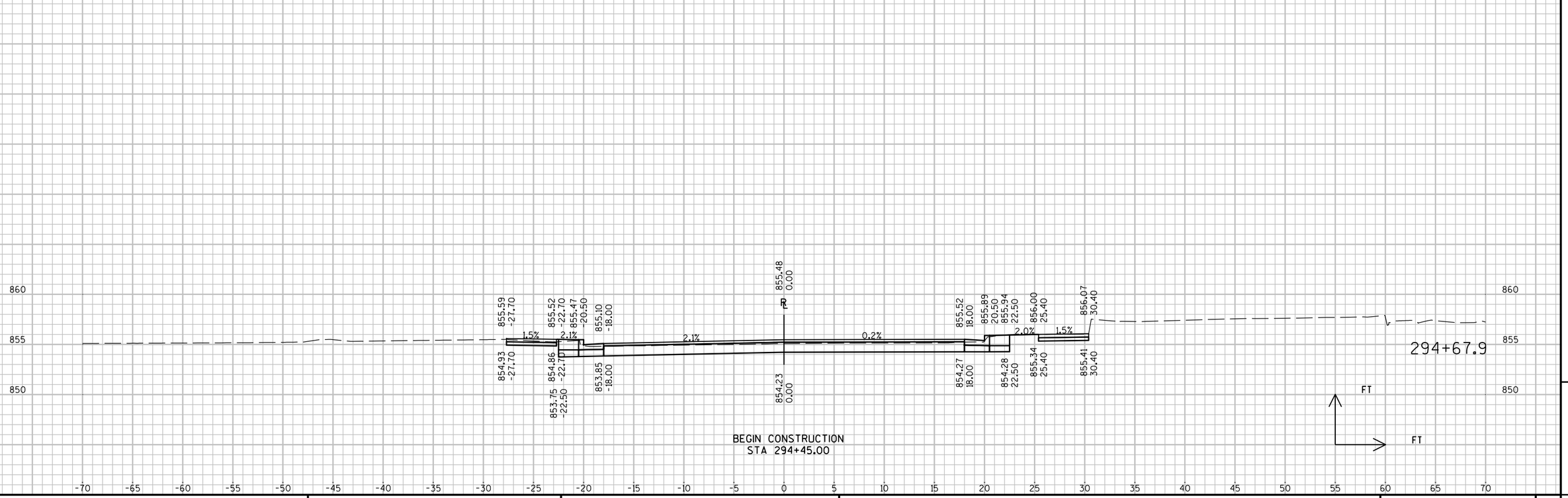
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: 19TH ST	SHEET 332	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS_19TH.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: 20TH ST	SHEET 333	E

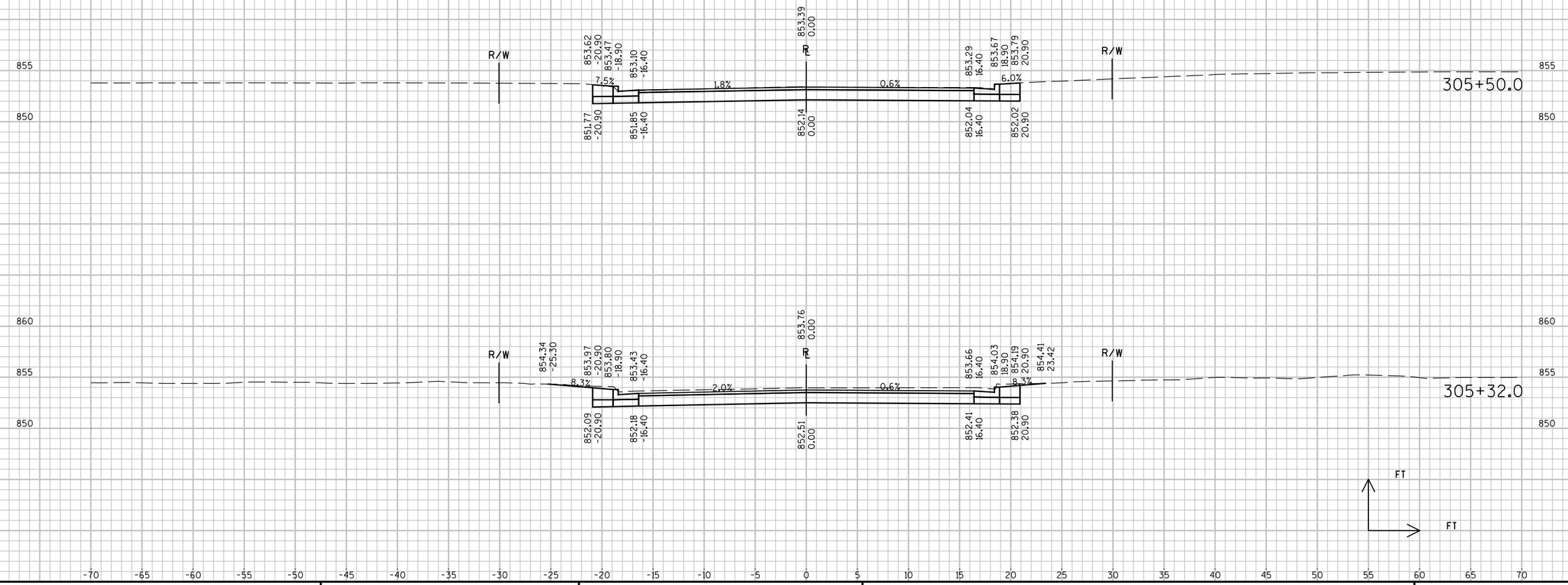
FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS_20TH.dgn

PLOT DATE : 4/11/2016

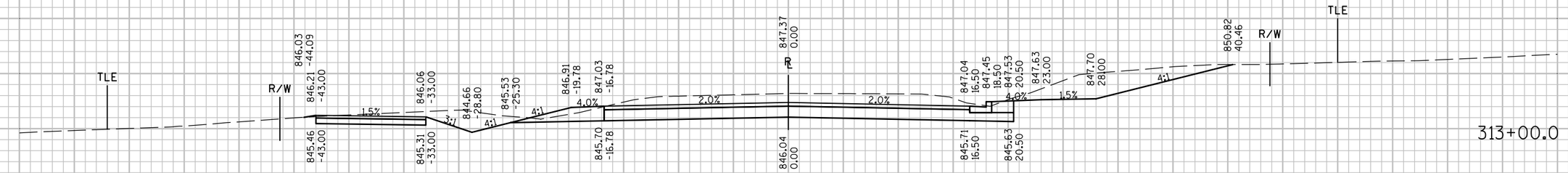
PLOT BY : $$...plotuser...$$

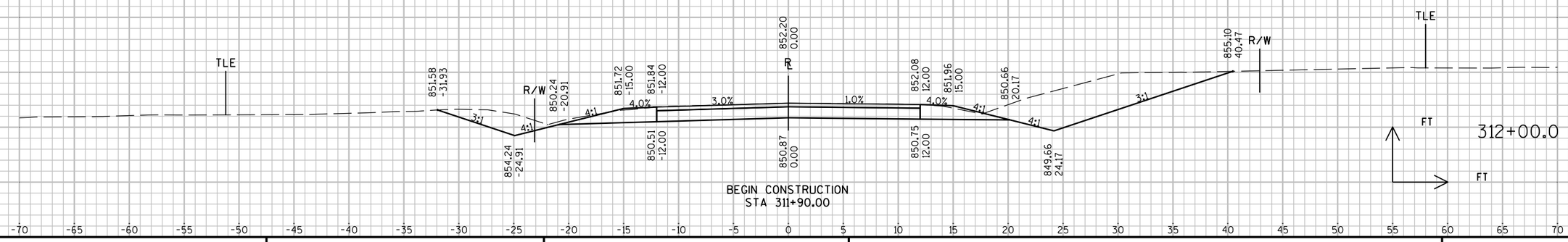
WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA 305+80.00



PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: N PARK ST	SHEET 334	E





-70 -65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

9

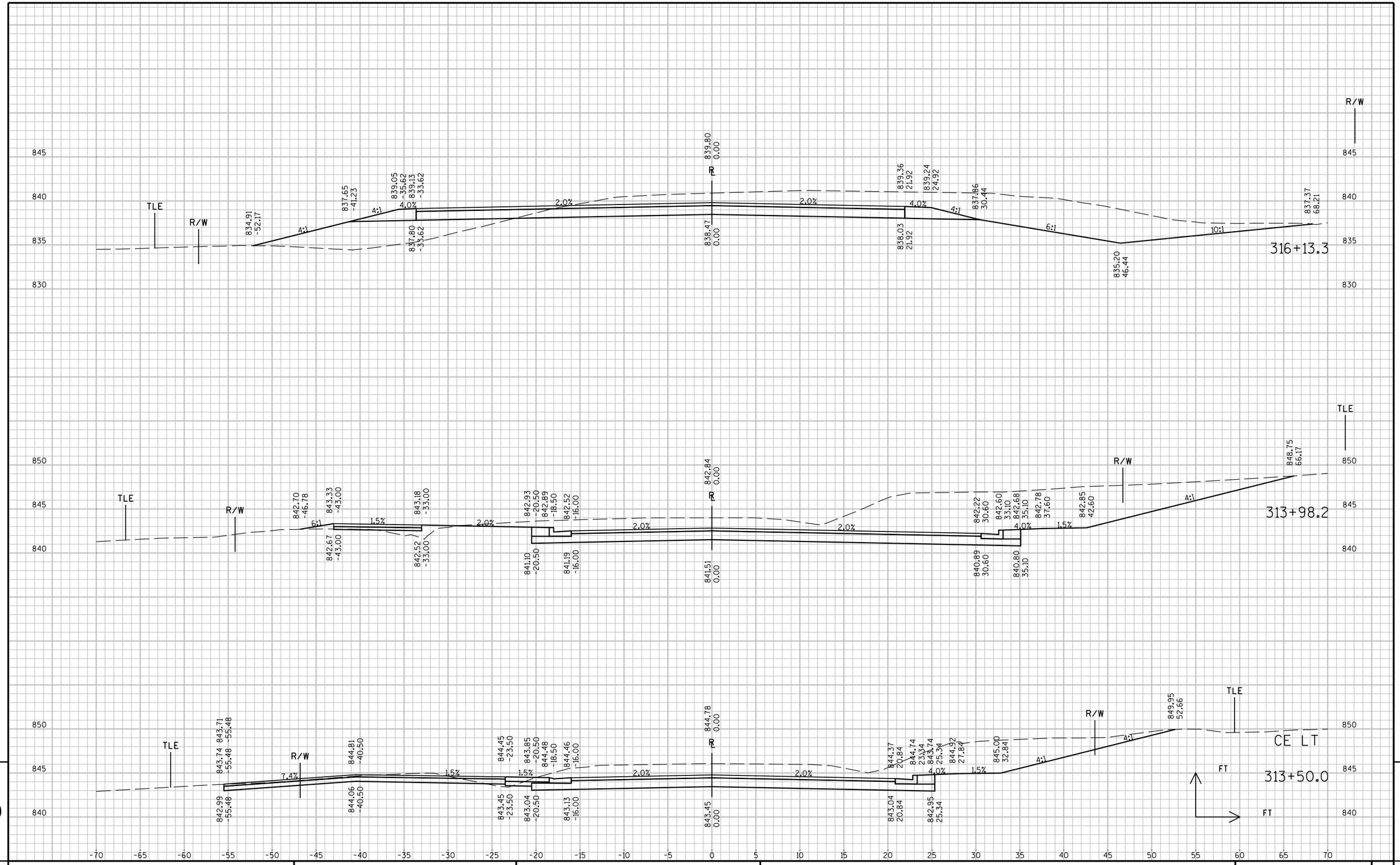
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: GREEN TREE RD / STH 156	SHEET 335	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS_GTREE_STH156.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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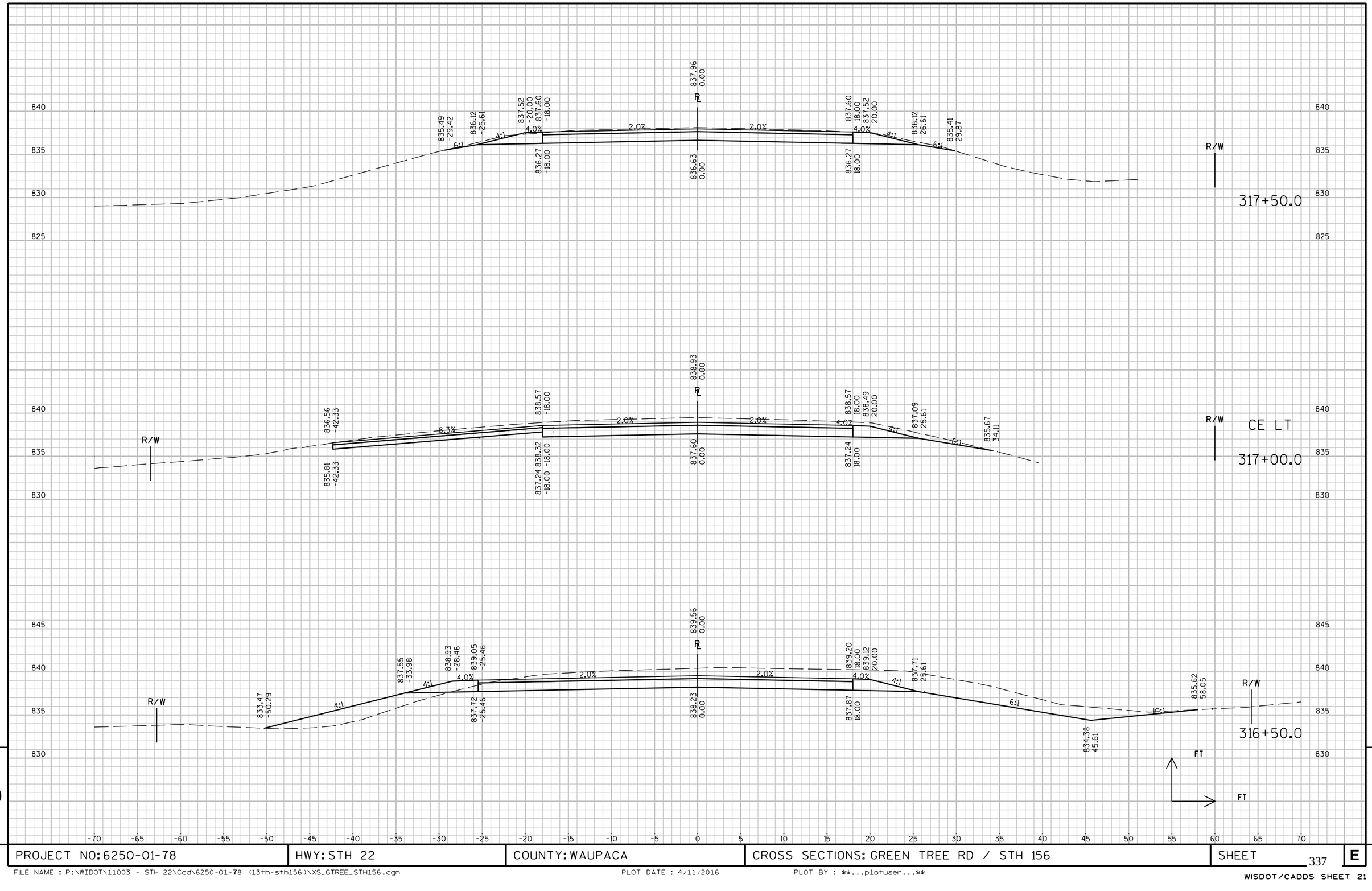
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: GREEN TREE RD / STH 156	SHEET 336	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS_GTREE_STH156.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



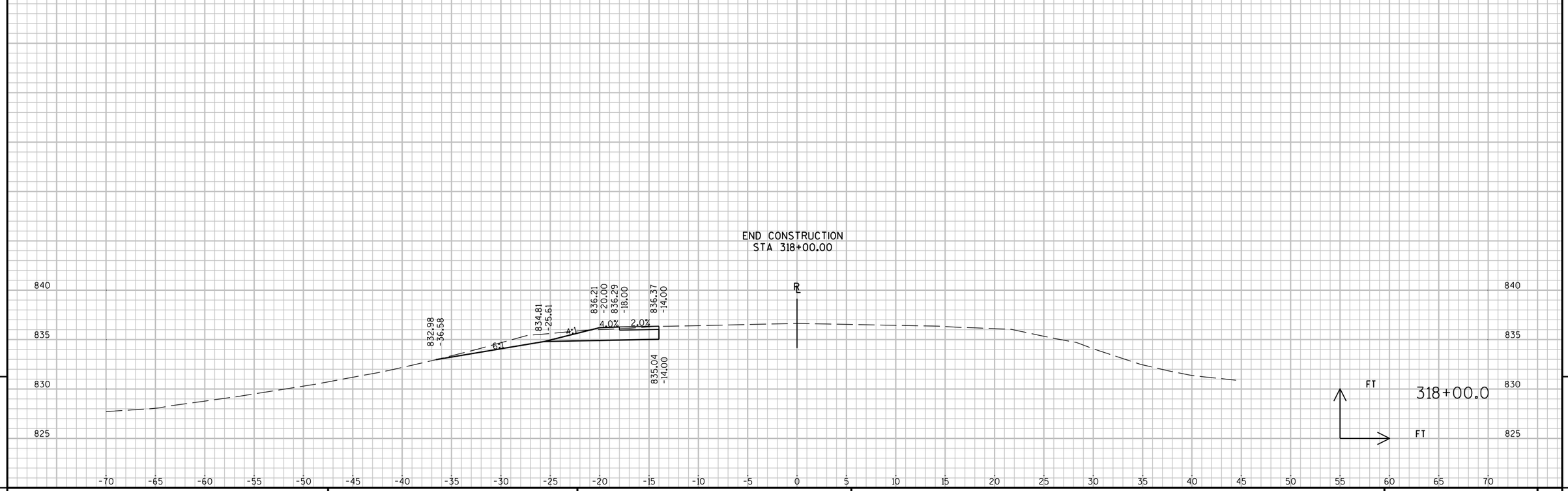
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: GREEN TREE RD / STH 156	SHEET 337	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS_GTREE_STH156.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: GREEN TREE RD / STH 156	SHEET 338	E

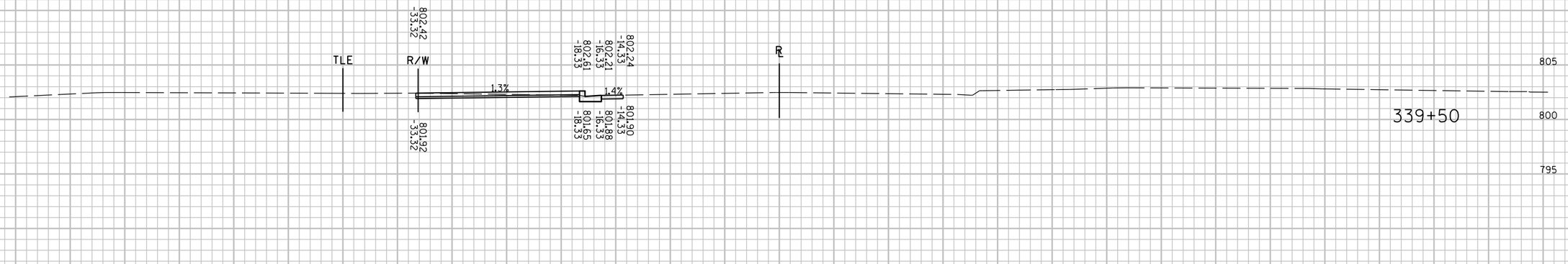
FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS_GTREE_STH156.dgn

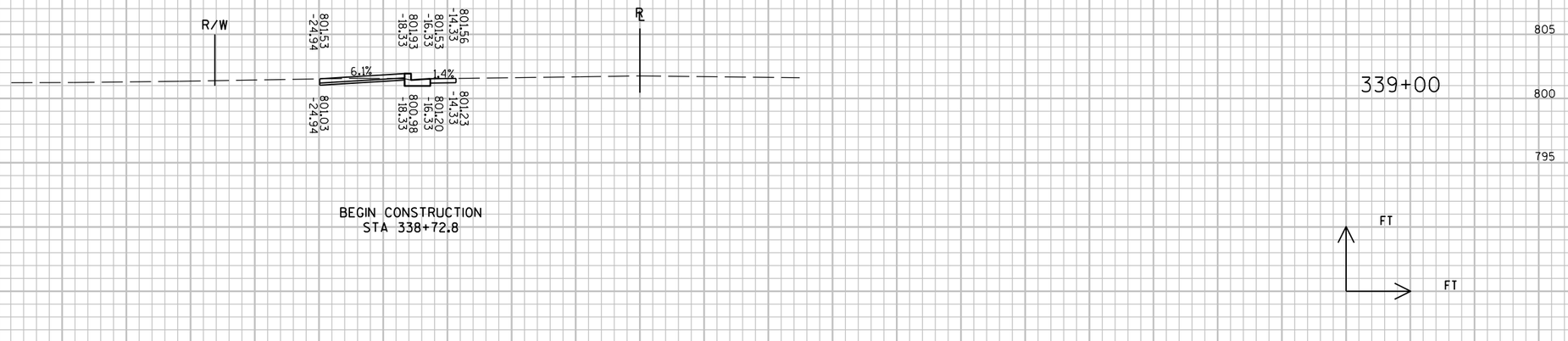
PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA 339+94.7





BEGIN CONSTRUCTION
STA 338+72.8

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9

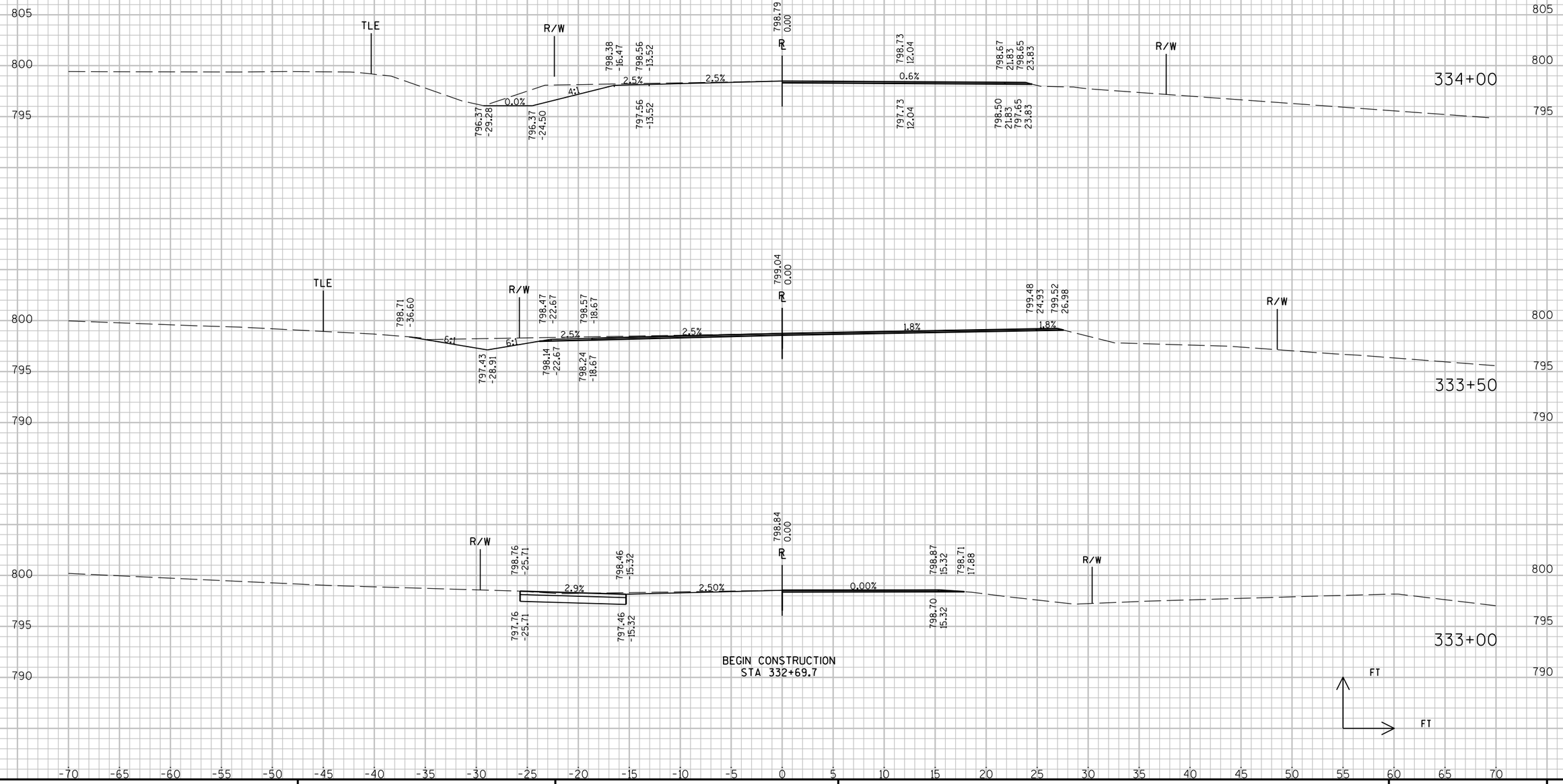
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: LYON STREET	SHEET 339	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS Lyon Street.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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9

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: E 12TH STREET	SHEET 340	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS E 12th Street.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA 334+91.0

798.59
0.00
℄

798.19
-14.03
798.39
-12.4

798.22
-12.4

798.42
0.00

798.41
11.96

797.41
11.96

798.34
16.55

797.17
16.55

798.12
19.14

R/W

R/W

1.6%

1.5%

1.5%

805

800

795

800

795

790

334+50

FT

FT

-70 -65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

9

9

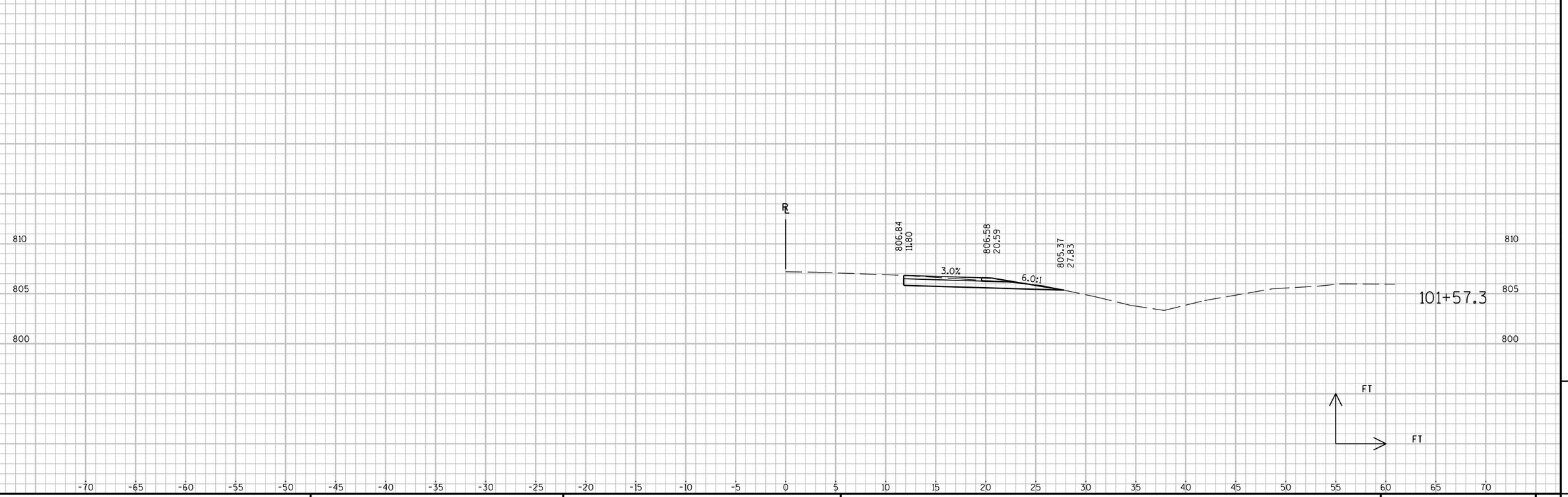
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: E 12TH STREET	SHEET 341	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS E 12th Street.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



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9

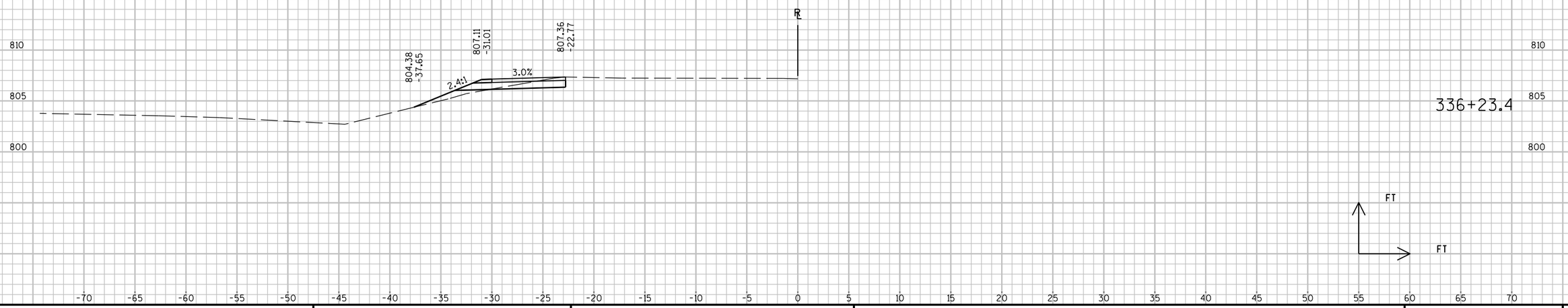
PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: INDUSTRIAL AVENUE (DETOUR WIDENING	SHEET 342	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS_INDUSTRL AVE DETOUR.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 6250-01-78	HWY: STH 22	COUNTY: WAUPACA	CROSS SECTIONS: STH 156 (DETOUR WIDENING)	SHEET 343	E

FILE NAME : P:\WIDOT\11003 - STH 22\Cad\6250-01-78 (13th-sth156)\XS_STH156 DETOUR.dgn

PLOT DATE : 4/11/2016

PLOT BY : $$...plotuser...$$

WISDOT/CADDS SHEET 21

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov

WIS

PROJECT ID: 6250-01-79

JUNE 2016

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 = 24

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C CLINTONVILLE, MAIN STREET

13TH STREET TO STH 156

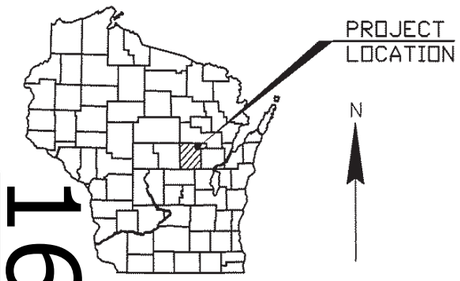
STH 22

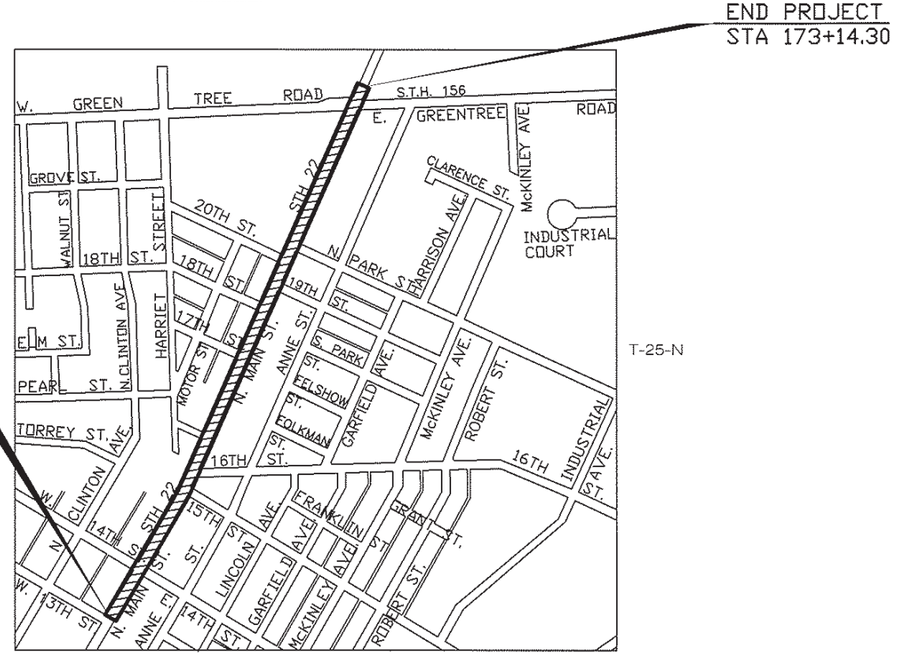
WAUPACA COUNTY

LOCAL UTILITY, SANITARY SEWER & WATER MAIN

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6250-01-79		

STATE PROJECT NUMBER
6250-01-79





DESIGN DESIGNATION

A.A.D.T.(2017)	=	15,700
A.A.D.T.(2037)	=	18,400
D.H.V. (2037)	=	2,225
D.D.	=	58/42
T.	=	5.3%
DESIGN SPEED	=	30 M.P.H.
ESALS	=	3,117,100

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE (PL)
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT OR STORM SEWER
- 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)
- TELEPHONE (T)
- WATER (W, WM)
- TELEPHONE PEDESTAL (T)
- POWER / TELEPHONE POLE

LAYOUT
SCALE 0 500' MI.

TOTAL NET LENGTH OF CENTERLINE = 0.808 MI.

Coordinates on this plan are referenced to the Wisconsin County Coordinate System (WCCS), Waupaca County.

ACCEPTED FOR CITY OF CLINTONVILLE

7/30/15 Date — Chuck Kell City Administrator BAT

ORIGINAL PLANS PREPARED BY

NORDIN DESIGN GROUP, INC.
N5841 HWY 47-55 SHAWANO WI 54166
(715)526-2027

WISCONSIN MARY T. NORDIN E-25033 SHAWANO, WIS. PROFESSIONAL ENGINEER
Mary T. Nordin 7-30-15

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	CBS SQUARED INC.
Designer	NORDIN DESIGN GROUP
Project Manager	MARK STEIDL
Regional Examiner	CHERYL SIMON
Regional Supervisor	SHANNON RILEY
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 7/30/15 Shannon P. Riley (Signature)

E

COUNTY: WAUPACA

GENERAL NOTES

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.

UTILITY CONTACTS

TOBY KERSTEN
CITY OF CLINTONVILLE - STORM SEWER
50 TENTH ST
CLINTONVILLE, WI 54929
(715)823-7600
(715)250-0220 (MOBILE)
TKERSTEN@CLINTONVILLEWI.ORG

BRIAN ELLICKSON
CLINTONVILLE UTILITIES - ELECTRICITY
50 TENTH ST
CLINTONVILLE, WI 54929
(715)823-7600
(715)250-2870 (MOBILE)
BELLICKSON@CLINTONVILLEWI.ORG

JAMES JASKOLSKI
FRONTIER COMMUNICATION OF WI LLC - COMMUNICATION LINE
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CLINTONVILLE, WI 54929
(715)823-1227
JAMES.JASKOLSKI@FTR.COM

Send all WE Energies Correspondence to:
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ATTN: LATROY BRUMFIELD
333 W EVERET ST, A299
MILWAUKEE, WI 53203
(414)221-5617
LATROY.BRUMFIELD@WE-ENERGIES.COM

WE ENERGIES CONSTRUCTION FIELD CONTACT:
CODY BECKMAN
WE ENERGIES - GAS/PETROLEUM
800 S LYNDALE DR
APPLETON, WI 54914
(920)380-3422
(920)428-1038 (MOBILE)
CODY.BECKMAN@WE-ENERGIES.COM

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(715)250-0200 (MOBILE)
BSTANISLAWSKI@CLINTONVILLEWI.ORG

JENNY PAGEL
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50 TENTH ST
CLINTONVILLE, WI 54929
(715)823-7600
(715)250-0067 (MOBILE)
JPAGEL@CLINTONVILLEWI.ORG

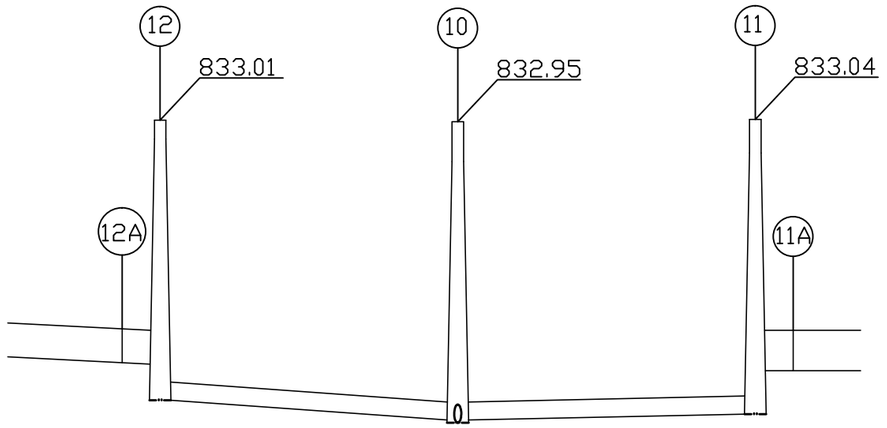
RUDI RUDIGER
CHARTER COMMUNICATIONS - COMMUNICATION LINE
5025 HEFFRON ST
STEVENS POINT, WI 54481
(715)204-5339 (MOBILE)
RUDIRUDIGER@CHARTER.NET

WDNR CONTACT

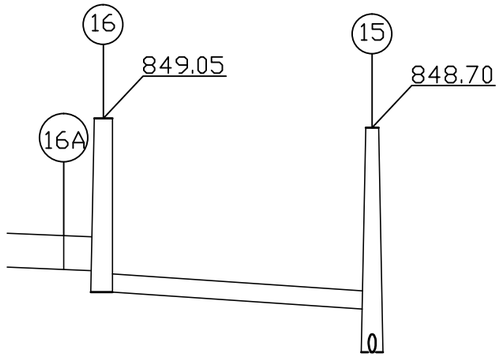
BOBBIE JO FISCHER
WDNR
WAUTOMA SERVICE CENTER
427 EAST TOWER DRIVE, SUITE 100
WAUTOMA, WI 54982
(920)787-3015
BOBBI.FISCHER@WISCONSIN.GOV

ALL SANITARY SEWER AND WATER MAIN CONSTRUCTION UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS SHALL COMPLY WITH APPLICABLE PROVISIONS OF "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN", 6TH EDITION, DATED DECEMBER 22, 2003, WITH ADDENDUM NO. 1 DATED DECEMBER 22, 2004 AND ADDENDUM NO. 2, DATED APRIL 22, 2008. APPLICABLE DETAIL DRAWINGS ARE AS FOLLOWS:

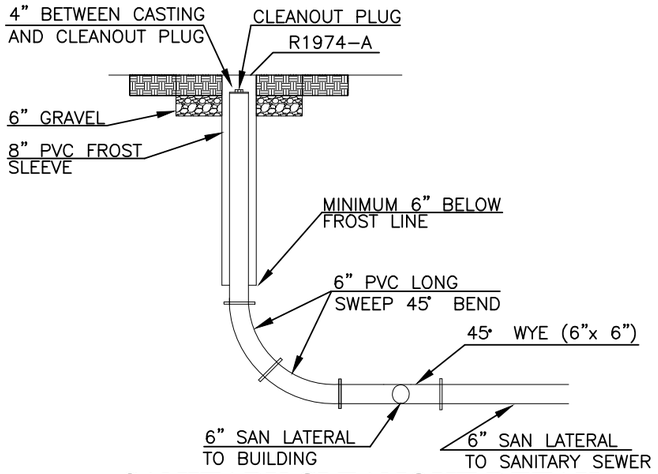
FILE NO. 3 COMPACTED SECTION (CLASS "C" BEDDING)
FILE NO. 10E RISER DETAIL "TYPE D" FLEXIBLE RISER TO FLEXIBLE MAIN
FILE NO. 12A FLEXIBLE WATERTIGHT FRAME/CHIMNEY SEALS
FILE NO. 13 STANDARD MANHOLE INVERTS
FILE NO. 19 OUTSIDE DROP PRECAST MANHOLE FLEXIBLE PIPE TO MANHOLE SEAL
FILE NO. 22 OUTSIDE DROP EXISTING MANHOLE
FILE NO. 24A TRACER WIRE DETAIL
FILE NO. 24B TRACER WIRE SPLICE CONNECTION DETAIL
FILE NO. 30 GO-NO GO MANDREL FOR FLEXIBLE PIPE
FILE NO. 30B MANDREL DIMENSIONS
FILE NO. 36 STANDARD WATERMAIN TRENCH SECTION
FILE NO. 37 STANDARD GATE VALVE BOX SETTING
FILE NO. 38 STANDARD HYDRANT SETTING
FILE NO. 44 BUTTRESS FOR 45 DEG. & 90 DEG. BENDS
FILE NO. 44A BUTTRESS FOR 11.25 DEG. & 22.5 DEG. BENDS
FILE NO. 46 BUTTRESS FOR TEES
FILE NO. 47A RETAINING GLAND RESTRAINT
FILE NO. 50 STANDARD SECTION FOR BUILDING SEWER AND WATER SERVICES
FILE NO. 51 TAP SERVICE PIPING (COPPER)
FILE NO. 52 TAP SERVICE PIPING FROM NEW WATERMAIN TO EXISTING COPPER OR LEAD SERVICE



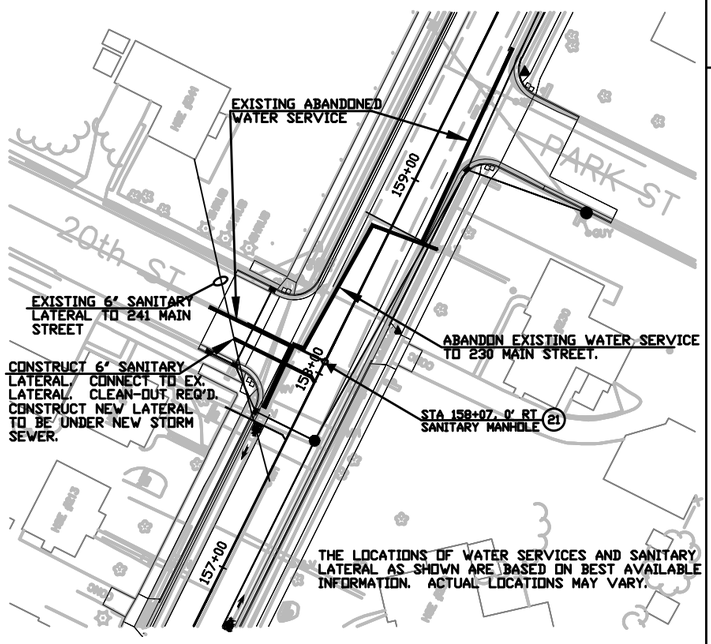
14TH STREET SANITARY SEWER



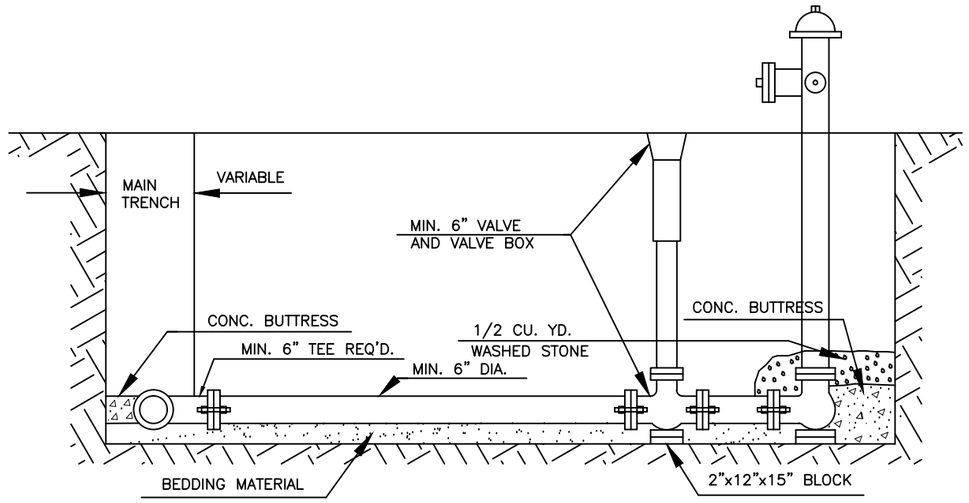
HARRIET STREET SANITARY SEWER



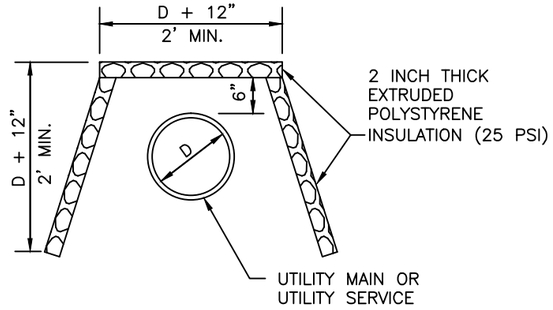
SANITARY CLEANOUT DETAIL



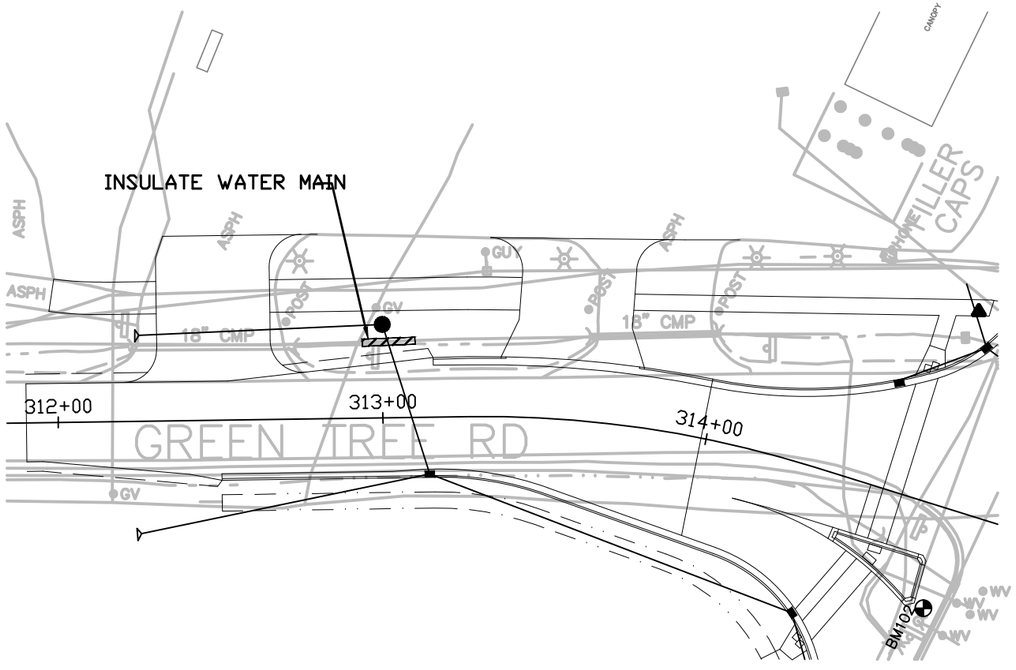
WATER SERVICE AND SANITARY LATERAL DETAIL AT 20TH & MAIN ST.



STANDARD HYDRANT ASSEMBLY



WATER MAIN INSULATION DETAIL



WATER MAIN INSULATION LOCATION

DATE 03MAY16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6250-01-79 QUANTITY
0200	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	300.000	300.000
0210	209.0100	Backfill Granular	CY	200.000	200.000
0240	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	60.000	60.000
0580	611.0535	Manhole Covers Type J-Special	EACH	17.000	17.000
0760	612.0902.S	Insulation Board Polystyrene (inch) 01. 2-Inch	SY	11.000	11.000
0780	619.1000	Mobilization	EACH	0.250	0.250
1760	690.0250	Sawing Concrete	LF	820.000	820.000
1930	SPV.0060	Special 40. Abandon Water Service	EACH	3.000	3.000
1940	SPV.0060	Special 41. Remove Hydrant & Branch Piping	EACH	8.000	8.000
1950	SPV.0060	Special 42. Remove Water Valve & Box	EACH	7.000	7.000
1960	SPV.0060	Special 43. Remove Water Valve MH & Valve	EACH	5.000	5.000
1970	SPV.0060	Special 44. Corporation, Curb Stop & Box	EACH	67.000	67.000
1980	SPV.0060	Special 45. Water Main, 8 Inch X 6 Inch Reducer	EACH	8.000	8.000
1990	SPV.0060	Special 46. Water Main, 6 Inch X 4 Inch Reducer	EACH	1.000	1.000
2000	SPV.0060	Special 47. Water Main, 8 Inch 90 Degree Bend	EACH	4.000	4.000
2010	SPV.0060	Special 48. Water Main, 8 Inch X 6 Inch Tee	EACH	9.000	9.000
2020	SPV.0060	Special 49. Water Main, 8 Inch X 8 Inch Tee	EACH	8.000	8.000
2030	SPV.0060	Special 50. Water Main, 8 Inch 45 Degree Bend	EACH	22.000	22.000
2040	SPV.0060	Special 51. Water Main, 8 Inch Cut-In Sleeve	EACH	2.000	2.000
2050	SPV.0060	Special 52. Water Main, 6 Inch Cut-In-Sleeve	EACH	8.000	8.000
2060	SPV.0060	Special 53. Water Main, 4 Inch Cut-In-Sleeve	EACH	1.000	1.000
2070	SPV.0060	Special 54. Water Main Connection	EACH	11.000	11.000
2080	SPV.0060	Special 55. Adjust Water Valve Box	EACH	5.000	5.000
2090	SPV.0060	Special 56. 8 Inch Valve & Valve Box	EACH	21.000	21.000
2100	SPV.0060	Special 57. 6 Inch Valve & Valve Box	EACH	9.000	9.000
2110	SPV.0060	Special 58. Hydrant	EACH	8.000	8.000
2120	SPV.0060	Special 59. Remove Curb Box	EACH	9.000	9.000
2130	SPV.0060	Special 60. Remove Sanitary Manhole	EACH	18.000	18.000
2140	SPV.0060	Special 61. Sanitary Connection	EACH	10.000	10.000
2150	SPV.0060	Special 62. Outside Drop, Existing Manhole	EACH	1.000	1.000
2160	SPV.0060	Special 63. Adjust Sanitary Manhole	EACH	3.000	3.000
2170	SPV.0060	Special 64. Chimney Seal	EACH	20.000	20.000
2180	SPV.0060	Special 65. WYE, 10 Inch X 6 Inch PVC	EACH	21.000	21.000
2190	SPV.0060	Special 66. WYE, 8 Inch X 6 Inch PVC	EACH	44.000	44.000
2200	SPV.0060	Special 67. Clean-Out, PVC, 6-Inch	EACH	2.000	2.000
2210	SPV.0060	Special 68. Abandon Sanitary Lateral	EACH	2.000	2.000
2280	SPV.0090	Special 69. Abandon Water Main	LF	355.000	355.000
2290	SPV.0090	Special 70. Remove Water Main	LF	3,947.000	3,947.000
2300	SPV.0090	Special 71. Remove Water Service	LF	2,199.000	2,199.000
2310	SPV.0090	Special 72. Water Main, 6-Inch	LF	149.000	149.000
2320	SPV.0090	Special 73. Water Main, 8-Inch	LF	4,311.000	4,311.000
2330	SPV.0090	Special 74. Water Main, Staking	LF	4,460.000	4,460.000

3

DATE 03MAY16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	6250-01-79 QUANTITY
2340	SPV.0090	Special 75. Water Service, HPDE, 1-Inch	LF	2,353.000	2,353.000
2350	SPV.0090	Special 76. Abandon Existing Sanitary	LF	1,090.000	1,090.000
2360	SPV.0090	Special 77. Remove Sanitary Sewer	LF	3,003.000	3,003.000
2370	SPV.0090	Special 78. Remove Sanitary Lateral	LF	2,070.000	2,070.000
2380	SPV.0090	Special 79. Sanitary Lateral, PVC, 6-Inch	LF	2,239.000	2,239.000
2390	SPV.0090	Special 80. Sanitary Sewer, 8-Inch	LF	2,690.000	2,690.000
2400	SPV.0090	Special 81. Sanitary Sewer, 10-Inch	LF	1,432.000	1,432.000
2410	SPV.0090	Special 82. Sanitary Sewer, 15-Inch	LF	5.000	5.000
2420	SPV.0090	Special 83. Sanitary Sewer, 18-Inch	LF	10.000	10.000
2430	SPV.0090	Special 84. Sanitary Sewer Staking	LF	4,137.000	4,137.000
2480	SPV.0165	Special 01. Temporary Pedestrian Surface	SF	2,400.000	2,400.000
2510	SPV.0200	Special 85. Sanitary Manhole, 4-Ft Diameter, W/ Eccentric Top	VF	164.300	164.300
2520	SPV.0200	Special 86. Outside Drop Sanitary Manhole, 4-Ft Diameter, W/ Eccentric Top	VF	14.350	14.350

3

VALVES

STATION	LOCATION	SPV.0060.56 8" VALVE & VALVE BOX EACH	SPV.0060.57 6" VALVE & VALVE BOX EACH
134+17	12' LT	1	-
134+23	36' RT	1	-
134+47	54' LT	1	-
134+52	12' LT	1	-
134+95	15' LT	-	1
140+65	15' LT	-	1
140+78	12' LT	1	-
140+90	12' LT	1	-
144+34	12' LT	1	-
144+68	52' LT	1	-
144+85	12' LT	1	-
144+98	15' LT	-	1
150+37	15' LT	-	1
150+71	12' LT	1	-
150+94	41' LT	1	-
150+98	12' LT	1	-
154+08	15' LT	-	1
154+23	12' LT	1	-
154+54	38' LT	1	-
154+59	12' LT	1	-
156+23	51' RT	1	-
156+33	12' LT	1	-
158+39	15' LT	-	1
159+43	12' LT	1	-
159+53	41' RT	1	-
159+68	12' LT	1	-
162+90	34' LT	-	1
163+76	15' LT	-	1
164+39	12' LT	1	-
168+90	16' LT	-	1
	TOTALS	21	9

ABANDON WATER MAIN

FROM STATION	FROM LOCATION	TO STATION	TO LOCATION	SPV.0090.69 WATER MAIN LF
130+70	12' LT	130+75	17' LT	7
130+75	17' LT	134+23	15' LT	348
			TOTALS	355

ADJUST WATER VALVE BOX

STATION	LOCATION	SPV.0060.55 EACH
169+54	2' LT	1
169+55	7' LT	1
169+62	1' LT	1
333+35, DETOUR	21.5' RT	1
339+75, DETOUR	18' LT	1
	TOTAL	5

WATER MAIN INSULATION

FROM STATION	FROM LOCATION	TO STATION	TO LOCATION	ITEM 612.0902.S INSULATION BOARD POLYSTYRENE, 2-INCH SY
312+94, GREENTREE	23' LT	313+10, GREENTREE	24' LT	11
			TOTAL	11

WATER MAIN CONNECTION

STATION	LOCATION	SPV.0060.54 EACH
130+70	12' LT	1
134+23	60' RT	1
134+53	60' LT	1
140+86	53' RT	1
144+76	55' LT	1
150+94	45' LT	1
154+54	42' LT	1
156+23	55' RT	1
159+53	45' RT	1
162+90	37' LT	1
169+52	2' LT	1
	TOTAL	11

REMOVE WATER MAIN

FROM STATION	FROM LOCATION	TO STATION	TO LOCATION	SPV.0090.70 WATER MAIN LF
134+23	MAIN ST	169+52	MAIN ST	3529
134+23	14' LT	134+23	60' RT	74
134+53	12' LT	134+53	60' LT	48
140+86	15' LT	140+86	53' RT	68
144+76	14' LT	144+76	55' LT	41
150+94	12' LT	150+94	45' LT	33
154+54	12' LT	154+54	42' LT	30
156+23	12' LT	156+23	55' RT	67
159+53	12' LT	159+53	45' RT	57
			TOTALS	3947

HYDRANTS

STATION	LOCATION	SPV.0060.58 HYDRANT EACH
134+95	25' LT	1
140+65	24' LT	1
144+98	23' LT	1
150+37	23' LT	1
154+08	23' LT	1
158+39	26' LT	1
163+76	26' LT	1
168+90	38' LT	1
	TOTALS	8

WATER MAIN REMOVALS

STATION	LOCATION	SPV.0060.42 WATER VALVE & BOX EACH	SPV.0060.41 HYDRANT & BRANCH PIPING EACH	SPV.0060.43 WATER VALVE MANHOLE & VALVE EACH	SPV.0165.01 TEMPORARY PEDESTRIAN SURFACE* SF	690.0250 SAWING CONCRETE* LF	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH* TON
133+97	17' LT	-	-	1	-	-	-
134+23	13' LT	1	-	-	-	-	-
134+53	40' LT	1	-	-	-	-	-
134+72	26' LT	-	1	-	32	10	0.8
140+46	26' LT	-	1	-	32	10	0.8
140+62	15' LT	-	-	1	-	-	-
140+86	12' LT	-	-	1	-	-	-
144+77	35' LT	1	-	-	-	-	-
145+10	15' LT	1	-	-	-	-	-
146+06	24' LT	-	1	-	32	10	0.8
151+38	20' LT	-	1	-	32	10	0.8
154+54	15' LT	-	-	1	-	-	-
154+76	20' LT	-	1	-	32	10	0.8
156+23	33' RT	1	-	-	-	-	-
157+74	22' LT	-	1	-	32	10	0.8
157+85	15' LT	1	-	-	-	-	-
159+53	26' RT	1	-	-	-	-	-
162+90	13' LT	-	-	1	-	-	-
164+78	23' LT	-	1	-	32	20	0.8
169+45	15' LT	-	1	-	32	20	0.8
	TOTALS	7	8	5	256	100	6.4

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

WATER MAIN

STREET	FROM STATION	FROM LOCATION	TO STATION	TO LOCATION	SPV.0090.72 6-INCH LF	SPV.0090.73 8-INCH LF	SPV.0090.74 STAKING LF	SPV.0165.01 TEMPORARY PEDESTRIAN SURFACE* SF	690.0250 SAWING CONCRETE* LF	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH* TON
MAIN STREET	130+70	12' LT	169+52	12' LT	-	3882	3882	-	-	-
14TH STREET	134+23	12' LT	134+23	60' RT	-	72	72	-	-	-
14TH STREET	134+47	12' LT	134+47	60' LT	-	48	48	-	-	-
14TH STREET	134+47	60' LT	134+53	60' LT	-	6	6	-	-	-
MAIN STREET	134+95	12' LT	HYDRANT		13	-	13	32	10	0.8
MAIN STREET	140+65	12' LT	HYDRANT		12	-	12	32	10	0.8
15TH STREET	140+86	12' LT	140+86	53' RT	-	65	65	-	-	-
HARRIET STREET	144+68	55' LT	144+68	55' LT	-	43	43	-	-	-
HARRIET STREET	144+68	12' LT	144+76	12' LT	-	8	8	-	-	-
MAIN STREET	144+98	12' LT	HYDRANT		11	-	11	32	10	0.8
MAIN STREET	150+37	12' LT	HYDRANT		11	-	11	32	10	0.8
17TH STREET	150+94	12' LT	150+94	45' LT	-	33	33	-	-	-
MAIN STREET	154+08	12' LT	HYDRANT		11	-	11	32	10	0.8
18TH STREET	154+54	12' LT	154+54	42' LT	-	30	30	-	-	-
19TH STREET	156+23	12' LT	156+23	55' RT	-	67	67	-	-	-
MAIN STREET	158+39	12' LT	HYDRANT		14	-	14	32	10	0.8
PARK STREET	159+53	12' LT	159+53	45' RT	-	57	57	-	-	-
MAIN STREET	162+90	12' LT	162+90	38' LT	26	-	26	32	20	0.8
MAIN STREET	163+76	12' LT	HYDRANT		14	-	14	32	20	0.8
MAIN STREET	168+90	2' LT	HYDRANT		37	-	37	32	20	0.8
				TOTALS	149	4311	4460	288	120	7.2

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

WATER MAIN FITTINGS

STATION	LOCATION	SPV.0060.45 8"X6" REDUCER EACH	SPV.0060.46 6"X4" REDUCER EACH	SPV.0060.47 8" 90 DEG. BEND EACH	SPV.0060.48 8"X6" TEE EACH	SPV.0060.49 8"X8" TEE EACH	SPV.0060.50 8" 45 DEG. BEND EACH	SPV.0060.51 8" CUT-IN SLEEVE EACH	SPV.0060.52 6" CUT-IN SLEEVE EACH	SPV.0060.53 4" CUT-IN SLEEVE EACH
130+70	12' LT	-	-	-	-	-	-	1	-	-
130+77	12' LT	-	-	-	-	-	1	-	-	-
130+81	12' LT	-	-	-	-	-	1	-	-	-
134+23	12' LT	-	-	-	-	1	-	-	-	-
134+23	4' LT	-	-	-	-	-	1	-	-	-
134+23	6' RT	-	-	-	-	-	1	-	-	-
134+23	17' RT	-	-	-	-	-	1	-	-	-
134+23	27' RT	-	-	-	-	-	1	-	-	-
134+23	60' RT	1	-	-	-	-	-	-	1	-
134+47	12' LT	-	-	-	-	1	-	-	-	-
134+47	60' LT	-	-	1	-	-	-	-	-	-
134+53	60' LT	1	-	1	-	-	-	-	1	-
134+62	12' LT	-	-	-	-	-	1	-	-	-
134+69	12' LT	-	-	-	-	-	1	-	-	-
134+80	12' LT	-	-	-	-	-	1	-	-	-
134+89	12' LT	-	-	-	-	-	1	-	-	-
134+95	12' LT	-	-	-	1	-	-	-	-	-
140+65	12' LT	-	-	-	1	-	-	-	-	-
140+86	12' LT	-	-	-	-	1	-	-	-	-
140+86	4' LT	-	-	-	-	-	1	-	-	-
140+86	6' RT	-	-	-	-	-	1	-	-	-
140+86	17' RT	-	-	-	-	-	1	-	-	-
140+86	27' RT	-	-	-	-	-	1	-	-	-
140+86	53' RT	-	-	-	-	-	-	1	-	-
144+47	12' LT	-	-	-	-	-	1	-	-	-
144+55	12' LT	-	-	-	-	-	1	-	-	-
144+68	12' LT	-	-	-	-	1	-	-	-	-
144+68	55' LT	-	-	1	-	-	-	-	-	-
144+70	12' LT	-	-	-	-	-	1	-	-	-
144+76	55' LT	1	-	1	-	-	-	-	1	-
144+79	12' LT	-	-	-	-	-	-	-	-	-
144+98	12' LT	-	-	-	1	-	-	-	-	-
150+37	12' LT	-	-	-	1	-	-	-	-	-
150+94	12' LT	-	-	-	-	1	-	-	-	-
150+94	45' LT	1	-	-	-	-	-	-	1	-
154+08	12' LT	-	-	-	1	-	-	-	-	-
154+54	12' LT	-	-	-	-	1	-	-	-	-
154+54	42' LT	1	-	-	-	-	-	-	1	-
156+23	12' LT	-	-	-	-	1	-	-	-	-
156+23	55' RT	1	-	-	-	-	-	-	1	-
158+39	12' LT	-	-	-	1	-	-	-	-	-
159+53	12' LT	-	-	-	-	1	-	-	-	-
159+53	45' RT	1	-	-	-	-	-	-	1	-
162+90	12' LT	-	-	-	1	-	-	-	-	-
162+90	38' LT	-	1	-	-	-	-	-	-	1
163+76	12' LT	-	-	-	1	-	-	-	-	-
168+90	2' LT	-	-	-	1	-	-	-	-	-
168+93	2' LT	-	-	-	-	-	1	-	-	-
169+06	2' LT	-	-	-	-	-	1	-	-	-
169+16	2' LT	-	-	-	-	-	1	-	-	-
169+23	2' LT	-	-	-	-	-	1	-	-	-
169+52	2' LT	1	-	-	-	-	-	-	1	-
	TOTALS	8	1	4	9	8	22	2	8	1

3

WATER SERVICE

STATION	LOCATION TO CURB STOP	SPV.0090.75 WATER SERVICE HDPE, 1" LF	SPV.0060.44 CORPORATION, CURB STOP & BOX EACH
131+70	35' LT	23	1
132+24	35' RT	47	1
132+47	35' LT	23	1
133+29	35' RT	47	1
133+31	35' LT	23	1
134+73	35' RT	47	1
135+65	35' RT	47	1
135+81	35' RT	47	1
135+98	35' LT	23	1
136+26	35' RT	47	1
136+68	35' LT	23	1
137+36	35' RT	47	1
137+59	35' LT	23	1
138+65	35' LT	23	1
138+83	35' LT	23	1
139+91	35' LT	23	1
139+97	35' LT	23	1
140+97	35' LT	23	1
141+91	35' LT	23	1
142+51	35' LT	23	1
142+90	35' LT	23	1
145+40	35' RT	47	1
145+41	35' LT	23	1
146+03	35' LT	23	1
146+42	35' RT	47	1
146+83	35' RT	47	1
147+05	34' LT	22	1
147+27	36' RT	47	1
147+60	33' LT	21	1
147+79	35' RT	47	1
148+32	36' RT	48	1
148+83	33' LT	21	1
149+48	33' LT	21	1
149+63	36' RT	48	1
150+33	33' LT	21	1
150+41	36' RT	48	1
150+76	36' RT	48	1
151+23	32' LT	20	1
151+44	36' RT	48	1
151+96	32' LT	20	1
152+14	36' RT	48	1
152+57	32' LT	20	1
152+92	36' RT	48	1
153+20	32' LT	20	1
153+64	35' RT	47	1
153+70	35' RT	47	1
154+00	32' LT	20	1
154+75	35' RT	47	1
154+90	32' LT	20	1
155+42	35' RT	47	1
155+65	32' LT	20	1
156+09	20' LT	11	1
156+90	32' LT	20	1
157+16	34' RT	46	1
157+42	20' LT	8	1
158+34	36' LT	24	1
158+75	34' RT	46	1
160+34	34' RT	46	1
161+50	34' RT	46	1
162+59	34' RT	46	1
163+13	34' RT	46	1
164+82	34' RT	46	1
166+11	34' RT	46	1
166+98	44' RT	55	1
167+73	52' RT	56	1
170+96	48' RT	53	1
172+46	47' RT	56	1
	TOTALS	2353	67

REMOVE WATER SERVICE

STATION	LOCATION TO CURB STOP	SPV.0090.71 WATER SERVICE LF
132+24	35' RT	47
132+47	35' LT	23
133+29	35' RT	47
133+31	35' LT	23
134+73	35' RT	47
135+65	35' RT	47
135+76	35' RT	47
135+98	35' LT	23
136+23	35' RT	47
136+66	35' LT	21
137+36	35' RT	49
137+59	35' LT	21
138+69	35' LT	21
138+81	35' LT	21
139+91	35' LT	21
140+02	35' LT	21
140+97	35' LT	20
141+91	35' LT	20
142+51	35' LT	20
142+90	35' LT	20
145+40	35' RT	47
145+41	35' LT	23
146+03	35' LT	22
146+42	35' RT	49
146+83	35' RT	49
147+05	34' LT	20
147+27	36' RT	49
147+60	33' LT	20
147+79	35' RT	49
148+32	36' RT	50
148+83	33' LT	19
149+48	33' LT	19
149+63	36' RT	50
150+33	33' LT	19
150+41	36' RT	50
150+76	36' RT	50
151+23	32' LT	19
151+44	36' RT	49
151+96	32' LT	19
152+14	36' RT	50
152+57	32' LT	18
152+92	36' RT	49
153+20	32' LT	19
153+70	35' RT	48
154+00	32' LT	18
154+75	35' RT	47
154+90	32' LT	20
155+42	35' RT	47
155+65	32' LT	20
156+09	32' LT	11
156+90	32' LT	20
157+16	34' RT	46
157+42	20' LT	8
158+34	36' LT	21
158+75	34' RT	48
160+34	34' RT	46
161+50	34' RT	46
162+59	34' RT	46
163+13	34' RT	46
164+82	34' RT	43
166+11	34' RT	43
166+98	44' RT	51
167+73	52' RT	53
172+46	47' RT	56
	TOTALS	2199

ABANDON WATER SERVICE

STATION	LOCATION TO CURB STOP	SPV.0060.40 WATER SERVICE EACH
158+76	RT	1
163+84	RT	1
168+83	RT	1
	TOTAL	3

REMOVE CURB BOX

STATION	LOCATION TO CURB STOP	SPV.0060.59 CURB BOX EACH
131+36	25' RT	1
131+97	26' LT	1
138+28	25' RT	1
143+08	26' RT	1
143+75	26' RT	1
144+56	26' RT	1
148+17	25' LT	1
149+20	27' RT	1
157+70	18' LT	1
	TOTAL	9

3

3

SANITARY SEWER MAIN SCHEDULE

LOCATION	FROM	TO	DISCHARGE ELEVATION	INLET ELEVATION	SLOPE	SPV.0090.80 8-INCH LF	SPV.0090.81 10-INCH LF	SPV.0090.82 15-INCH LF	SPV.0090.83 18-INCH LF	SPV.0090.84 STAKING LF
MAIN STREET	9	10	817.60	821.80	1.14%	-	369	-	-	369
E. 14TH STREET	10	11	821.90	822.12	0.40%	55	-	-	-	55
E. 14TH STREET	11	11A	823.72	823.73	0.18%	-	-	-	5	5
W. 14TH STREET	10	12	821.90	822.63	1.32%	55	-	-	-	55
W. 14TH STREET	12	12A	823.97	824.02	0.99%	-	-	-	5	5
MAIN STREET	10	13	823.40	829.05	1.96%	-	288	-	-	288
MAIN STREET	13	14	829.15	835.54	1.89%	-	339	-	-	339
MAIN STREET	14	15	835.64	840.40	1.20%	-	396	-	-	396
HARRIET STREET	15	16	842.00	842.62	1.12%	50	-	-	-	50
HARRIET STREET	16	16A	843.42	843.46	0.72%	-	-	5	-	5
MAIN STREET	15	17	840.50	843.60	0.85%	366	-	-	-	366
MAIN STREET	17	18	843.70	845.60	0.75%	255	-	-	-	255
17TH STREET	18	18A	846.50	847.01	1.14%	45	-	-	-	45
MAIN STREET	18	19	845.70	848.30	0.71%	364	-	-	-	364
18TH STREET	19	19A	849.40	849.88	1.19%	-	40	-	-	40
MAIN STREET	19	20	848.40	849.18	0.40%	194	-	-	-	194
19TH STREET	20A	20	839.33	839.85	0.95%	55	-	-	-	55
MAIN STREET	20	21	839.75	840.42	0.40%	167				167
20TH STREET	21	21A	845.41	846.17	1.90%	40	-	-	-	40
MAIN STREET	21	22	840.42	841.70	0.40%	322	-	-	-	322
MAIN STREET	22	23	841.70	842.57	0.40%	215	-	-	-	215
MAIN STREET	23	24	842.57	843.14	0.40%	142	-	-	-	142
MAIN STREET	26	25	831.96	838.21	2.99%	209	-	-	-	209
MAIN STREET	27	26	829.00	832.06	1.90%	156	-	-	-	156
					TOTALS	2690	1432	5	10	4137

SANITARY MANHOLES

MANHOLE	STATION	LOCATION	SPV.0200.85 MANHOLES 4-FT DIAMETER W/ ECCENTRIC TOP VF**	SPV.0200.86 OUTSIDE DROP MANHOLES 4-FT DIAMETER W/ ECCENTRIC TOP VF**	ITEM 611.0535 MANHOLE COVER TYPE J-SPECIAL EACH	SPV.0060.64 CHIMNEY SEAL* EACH
10	134+38	0' RT	11.15	-	1	1
11	134+38	55' RT	10.92	-	1	1
12	134+38	55' LT	10.38	-	1	1
13	137+26	0' RT	9.77	-	1	1
14	140+65	0' RT	9.22	-	1	1
15	144+61	0' RT	8.30	-	1	1
16	144+61	50' LT	6.43	-	1	1
17	148+27	0' RT	8.40	-	1	1
18	150+82	0' RT	8.70	-	1	1
19	154+46	0' RT	8.60	-	1	1
20	156+40	0' RT	15.97	-	1	1
21	158+07	0' RT	-	14.35	1	1
22	161+29	0' RT	11.84	-	1	1
23	163+44	0' RT	11.13	-	1	1
24	164+86	0' RT	9.73	-	1	1
25	166+97	12' RT	11.90	-	1	1
26	169+06	20' RT	11.86	-	1	1
		TOTALS	164.30	14.35	17	17

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

** VF IS AS MEASURED FROM THE FINISHED RIM TO THE LOWEST INVERT.

ABANDON SANITARY

FROM STATION	FROM LOCATION	TO STATION	TO LOCATION	SPV.0090.76 EXISTING SANITARY LF	SPV.0060.68 SANITARY LATERAL EACH
156+41	20' RT	158+05	20' RT	164	
157+47	0' RT	157+97	42' LT		1
158+09	20' RT	159+42	14' RT	133	
159+46	14' RT	161+27	12' RT	181	
161+31	12' RT	163+44	14' RT	213	
163+44	14' RT	167+43	16' RT	399	
163+82	RT				1
			TOTALS	1090	2

REMOVE SANITARY MANHOLE

STATION, OFFSET	LOCATION	SPV.0060.60 EACH
130+69, 0' RT	MAIN STREET	1
133+99, 0' RT	MAIN STREET	1
134+38, 43' LT	W 14TH ST	1
134+38, 38' RT	E 14TH ST	1
137+26, 0' RT	MAIN STREET	1
140+50, 0'RT	MAIN STREET	1
142+21, 1' LT	MAIN STREET	1
144+60, 1' RT	MAIN STREET	1
148+26, 1' RT	MAIN STREET	1
150+81, 3' RT	MAIN STREET	1
154+45, 2' RT	MAIN STREET	1
156+39, 20' RT	MAIN STREET	1
157+44, 2' RT	MAIN STREET	1
158+06, 20' RT	MAIN STREET	1
159+44, 14' RT	MAIN STREET	1
161+29, 12' RT	MAIN STREET	1
163+45, 14' RT	MAIN STREET	1
167+43, 21' RT	MAIN STREET	1
	TOTAL	18

EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL

FROM STATION	TO STATION	205.0501.S TON
139+75	140+25	300
	TOTAL	300

BACKFILL GRANULAR

LOCATION	ITEM 209.0100 CY
UNDISTRIBUTED	200

SANITARY CONNECTION

REFERENCE	LOCATION	STATION	LOCATION	SPV.0060.61 MAIN EACH	SPV.0060.61 MANHOLE EACH	SPV.0060.62 OUTSIDE DROP, EXISTING MANHOLE EACH
9	MAIN STREET	130+67	0' RT	1	-	-
11A	14TH STREET	134+38	60' RT	1	-	-
12A	14TH STREET	134+38	60' LT	1	-	-
16A	HARRIET STREET	144+61	55' LT	1	-	-
18A	17TH STREET	150+82	45' LT	1	-	-
19A	18TH STREET	154+46	40' LT	1	-	-
20A	19TH STREET	156+40	55' RT	1	-	-
21A	20TH STREET	158+07	40' LT	1	-	-
27	STH 156	170+49	85' RT	-	1	1
			SUB-TOTALS	9	1	1
			GRAND TOTAL	10		

REMOVE SANITARY SEWER

FROM STATION	FROM LOCATION	TO STATION	TO LOCATION	SPV.0090.77 LF
130+71	0' RT	133+97	0' RT	326
134+01	0' RT	134+36	0' RT	35
133+99	0' RT	134+38	41' LT	54
134+38	45' LT	134+38	60' LT	15
133+99	0' RT	134+38	36' RT	50
134+38	40' RT	134+38	60' RT	20
134+40	0' RT	137+24	0' RT	284
137+28	0' RT	140+48	0' RT	320
140+52	0' RT	142+19	0' RT	167
142+23	0' RT	144+59	1' RT	236
144+61	1' LT	144+61	55' LT	54
144+63	1' RT	148+25	1' RT	362
148+29	1' RT	150+80	1' RT	251
150+82	2' LT	150+82	45' LT	43
150+84	1' RT	154+44	2' RT	360
154+46	0' LT	154+46	40' LT	40
154+48	2' RT	157+42	2' RT	294
156+40	21' RT	156+40	55' RT	34
158+07	18' RT	158+07	40' LT	58
			TOTAL	3003

ADJUST SANITARY MANHOLE

STATION	LOCATION	SPV.0060.63 EACH	SPV.0060.64 CHIMNEY SEAL* EACH
170+48	20' LT	1	1
170+51	86' RT	1	1
172+29	31' LT	1	1
	TOTALS	3	3

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

SANITARY LATERALS

STATION	LOCATION	SPV.0090.79 SANITARY LATERAL PVC 6-INCH LF	SPV.0060.65 WYE PVC 10"X6" EACH	SPV.0060.66 WYE PVC 8"X6" EACH	SPV.0060.67 CLEAN-OUT PVC 6-INCH EACH	SPV.0165.01 TEMPORARY PEDESTRIAN SURFACE* SF	690.0250 SAWING CONCRETE* LF	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH* TON
131+72	LT	35	1	-	-	32	10	0.8
132+21	RT	35	1	-	-	32	10	0.8
132+49	LT	35	1	-	-	32	10	0.8
133+25	RT	35	1	-	-	32	10	0.8
133+33	LT	35	1	-	-	32	10	0.8
134+71	RT	35	1	-	-	32	10	0.8
135+62	RT	35	1	-	-	32	10	0.8
135+79	RT	35	1	-	-	32	10	0.8
136+01	LT	35	1	-	-	32	10	0.8
136+28	RT	35	1	-	-	32	10	0.8
136+70	LT	35	1	-	-	32	10	0.8
137+38	RT	35	1	-	-	32	10	0.8
137+56	LT	35	1	-	-	32	10	0.8
138+68	LT	35	1	-	-	32	10	0.8
138+86	LT	35	1	-	-	32	10	0.8
139+93	LT	34	1	-	-	32	10	0.8
139+99	LT	34	1	-	-	32	10	0.8
140+99	LT	35	1	-	-	32	10	0.8
141+89	LT	34	1	-	-	32	10	0.8
142+48	LT	35	1	-	-	32	10	0.8
142+92	LT	35	1	-	-	32	10	0.8
145+43	LT	34	-	1	-	32	10	0.8
145+44	RT	35	-	1	-	32	10	0.8
146+01	LT	34	-	1	-	32	10	0.8
146+39	RT	35	-	1	-	32	10	0.8
146+86	RT	35	-	1	-	32	10	0.8
147+02	LT	34	-	1	-	32	10	0.8
147+30	RT	35	-	1	-	32	10	0.8
147+57	LT	33	-	1	-	32	10	0.8
147+76	RT	35	-	1	-	32	10	0.8
148+29	RT	35	-	1	-	32	10	0.8
148+80	LT	33	-	1	-	32	10	0.8
149+46	LT	33	-	1	-	32	10	0.8
149+66	RT	35	-	1	-	32	10	0.8
150+29	LT	33	-	1	-	32	10	0.8
150+43	RT	35	-	1	-	32	10	0.8
150+74	RT	35	-	1	-	32	10	0.8
151+21	LT	32	-	1	-	32	10	0.8
151+40	RT	35	-	1	-	32	10	0.8
152+00	LT	32	-	1	-	32	10	0.8
152+12	RT	35	-	1	-	32	10	0.8
152+56	LT	32	-	1	-	32	10	0.8
152+91	RT	35	-	1	-	32	10	0.8
153+17	LT	32	-	1	-	32	10	0.8
153+61	RT	35	-	1	-	32	10	0.8
153+73	RT	35	-	1	-	32	10	0.8
153+98	LT	32	-	1	-	32	10	0.8
154+73	RT	35	-	1	-	32	10	0.8
154+88	LT	32	-	1	-	32	10	0.8
155+44	RT	35	-	1	-	32	10	0.8
155+63	LT	32	-	1	-	32	10	0.8
156+11	LT	23	-	1	-	32	10	0.8
156+88	LT	32	-	1	-	32	10	0.8
157+18	RT	34	-	1	-	32	10	0.8
157+40	LT	20	-	1	-	-	-	-
157+97	LT	42	-	1	1	-	-	-
158+78	RT	34	-	1	-	32	10	0.8
160+37	RT	33	-	1	-	32	10	0.8
161+29	LT	35	-	1	-	32	20	0.8
161+52	RT	33	-	1	-	-	-	-
162+57	RT	33	-	1	-	-	-	-
163+10	RT	33	-	1	-	-	-	-
163+44	LT	35	-	-	-	32	20	0.8
164+80	RT	33	-	1	-	-	-	-
167+00	RT	32	-	1	-	-	-	-
167+70	RT	37	-	1	1	-	-	-
	TOTALS	2239	21	44	2	1856	600	46.4

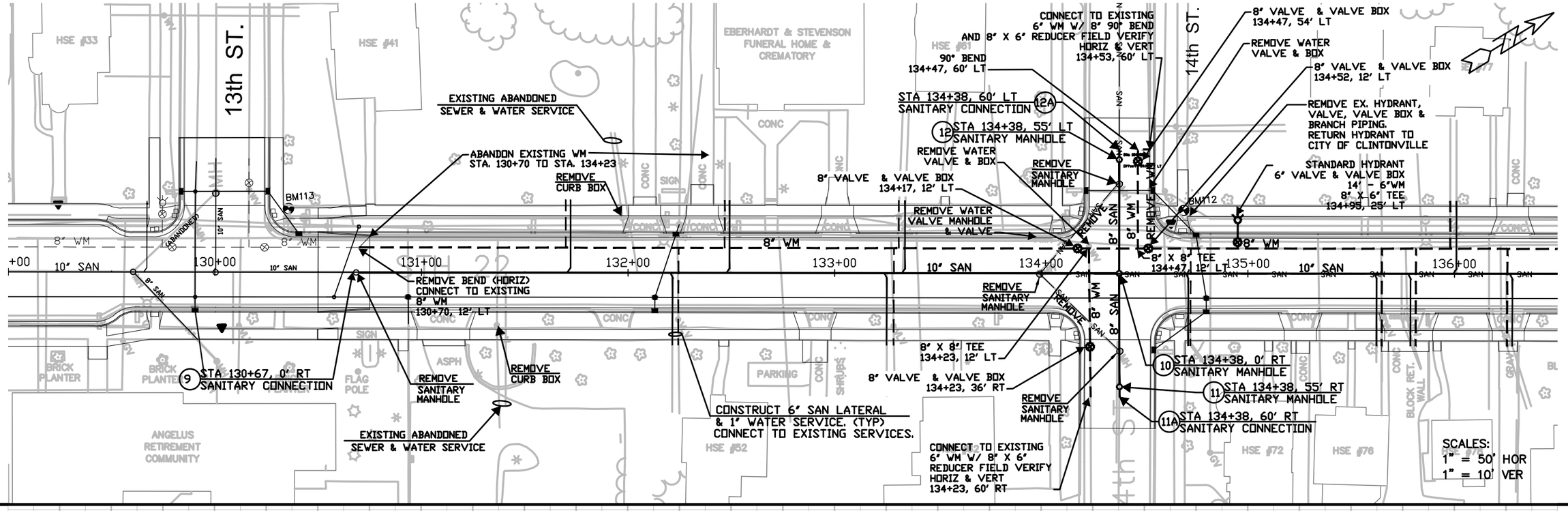
NOTE: THE LOCATION OF EXISTING SANITARY LATERALS IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING SANITARY LATERALS PRIOR TO CONSTRUCTION OF NEW SANITARY LATERAL.

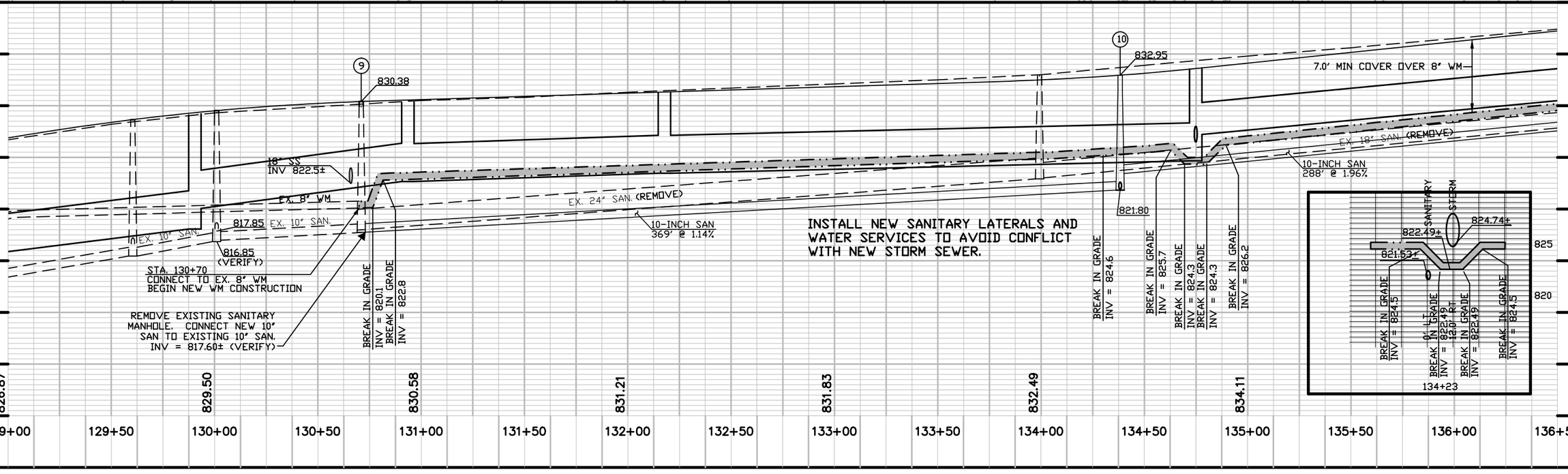
* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVE SANITARY LATERALS

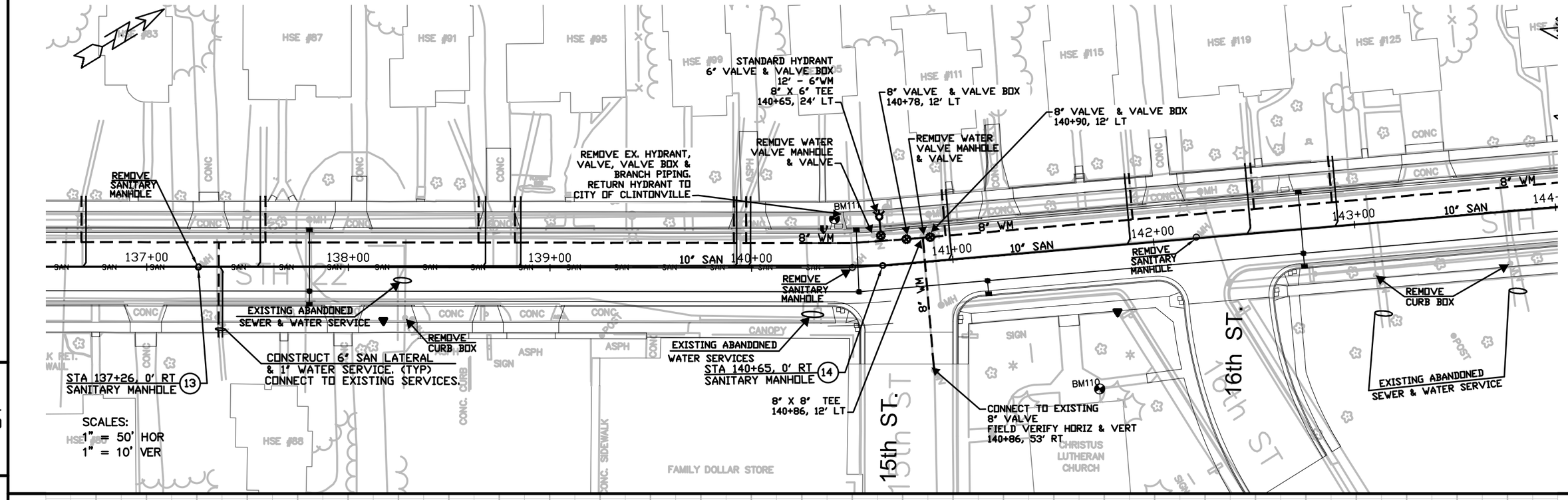
STATION	LOCATION	SPV.0090.78 SANITARY LATERAL LF
132+21	RT	35
132+49	LT	35
133+25	RT	35
133+33	LT	35
134+71	RT	35
135+62	RT	35
135+76	RT	35
136+01	LT	35
136+28	RT	35
136+70	LT	35
137+38	RT	35
137+56	LT	35
138+72	LT	35
138+84	LT	35
139+93	LT	34
139+94	LT	34
140+99	LT	35
141+89	LT	34
142+48	LT	35
142+92	LT	35
145+43	LT	34
145+44	RT	35
146+01	LT	34
146+39	RT	35
146+86	RT	35
147+02	LT	34
147+30	RT	35
147+57	LT	33
147+76	RT	35
148+29	RT	35
148+80	LT	33
149+46	LT	33
149+66	RT	35
150+29	LT	33
150+43	RT	35
150+74	RT	35
151+21	LT	32
151+40	RT	35
152+00	LT	32
152+12	RT	35
152+56	LT	32
152+91	RT	35
153+17	LT	32
153+67	RT	35
153+73	RT	35
153+98	LT	32
154+73	RT	35
154+88	LT	32
155+44	RT	35
155+63	LT	32
156+11	LT	23
156+88	LT	32
157+18	RT	34
157+40	LT	20
158+78	RT	20
160+37	RT	20
161+29	LT	35
161+52	RT	20
162+57	RT	20
163+10	RT	20
163+44	LT	35
164+80	RT	18
167+00	RT	26
167+70	RT	32
	TOTALS	2070

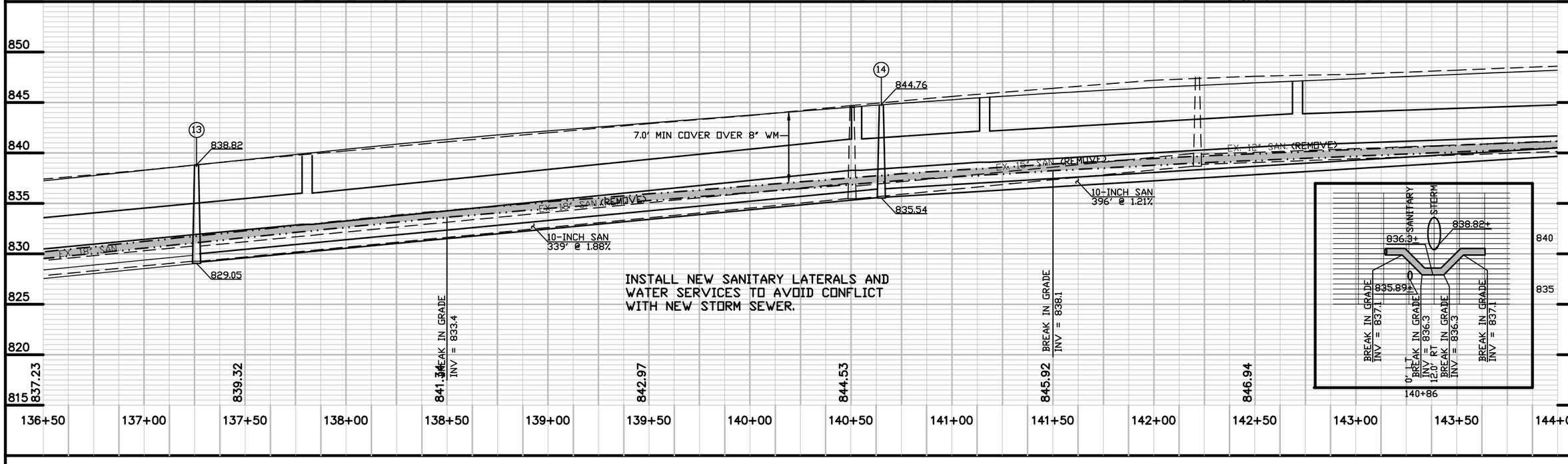
3





PROJECT NO: 6250-01-79	HWY: STH 22	COUNTY: WAUPACA	SANITARY SEWER / WATER MAIN	SHEET	E





PROJECT NO: 6250-01-79	HWY: STH 22	COUNTY: WAUPACA	SANITARY SEWER / WATER MAIN	SHEET	E

STA 144+61, 55' LT
SANITARY CONNECTION
13

STA 144+61, 50' LT
SANITARY MANHOLE
16

90° BEND
144+68, 55' LT

8" VALVE & VALVE BOX
144+68, 52' LT

CONNECT TO EXISTING
6" WM W/ 8" 90° BEND
AND 8" X 6" REDUCER FIELD VERIFY
HORIZ & VERT
144+76, 55' LT

8" x 8" TEE
144+68, 12' LT

STANDARD HYDRANT
6" VALVE & VALVE BOX
11' - 6"WM
8" X 6" TEE
144+98, 23' LT

8" VALVE &
VALVE BOX
144+34, 12' LT

HARRIET ST.

8" WM

8" SAN

10" SAN

+00

145+00

146+00

147+00

148+00

149+00

150+00

151+00

REMOVE EX. HYDRANT,
VALVE, VALVE BOX &
BRANCH PIPING.
RETURN HYDRANT TO
CITY OF CLINTONVILLE

BM109

EXISTING ABANDONED
SEWER & WATER SERVICE

REMOVE
CURB BOX

8" VALVE & VALVE BOX
150+94, 41' LT

STA 150+82, 45' LT
SANITARY CONNECTION
18A

STANDARD HYDRANT
6" VALVE & VALVE BOX
11' - 6"WM
8" X 6" TEE
150+37, 23' LT

CONNECT TO EXISTING
6" WM W/ 8" X 6"
REDUCER FIELD VERIFY
HORIZ & VERT
150+94, 45' LT

17th ST.

8" VALVE
& VALVE BOX
150+98, 12' LT

BM108

REMOVE WATER
VALVE & BOX

REMOVE
SANITARY
MANHOLE

REMOVE
CURB BOX

STA 144+61, 0' RT
SANITARY MANHOLE
15

8" VALVE & VALVE BOX
144+85, 12' LT

CONSTRUCT 6' SAN LATERAL
& 1" WATER SERVICE. (TYP)
CONNECT TO EXISTING SERVICES.

EXISTING ABANDONED
SEWER & WATER SERVICE

STA 148+27, 0' RT
SANITARY MANHOLE
17

REMOVE
SANITARY
MANHOLE

REMOVE
CURB BOX

EXISTING ABANDONED
SEWER & WATER SERVICE

8" VALVE & VALVE BOX
150+71, 12' LT

REMOVE
SANITARY
MANHOLE

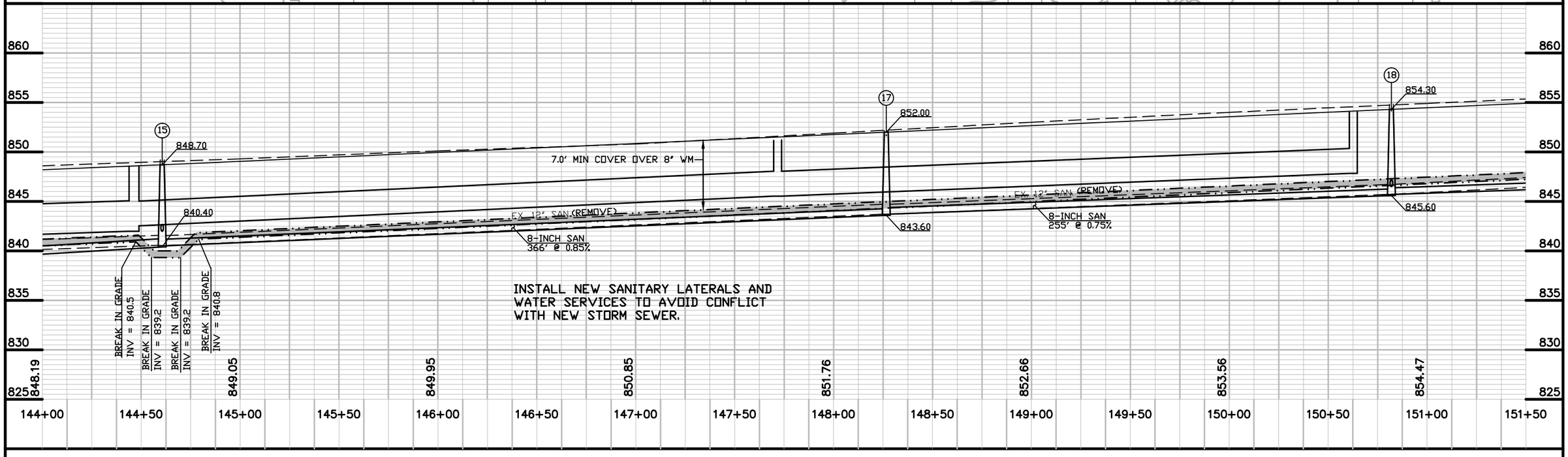
8" SAN
8" X 8" TEE
150+94, 12' LT

STA 150+82, 0' RT
SANITARY MANHOLE
18

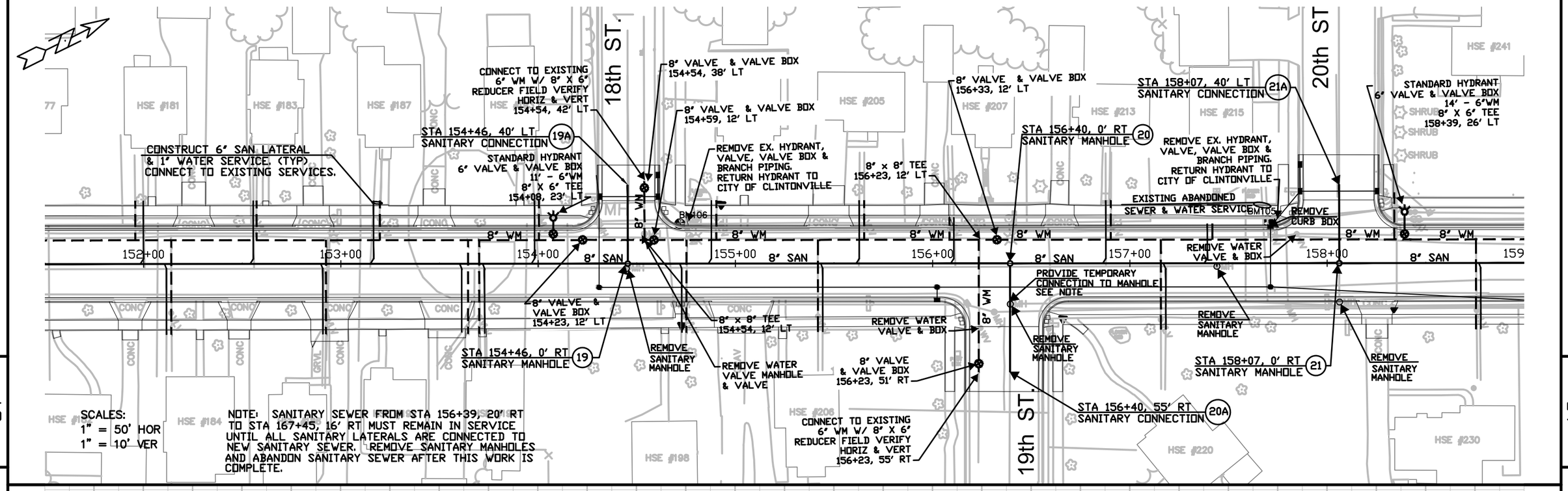
REMOVE EX. HYDRANT,
VALVE, VALVE BOX &
BRANCH PIPING.
RETURN HYDRANT TO
CITY OF CLINTONVILLE

SCALES:
1" = 50' HOR
1" = 10' VER

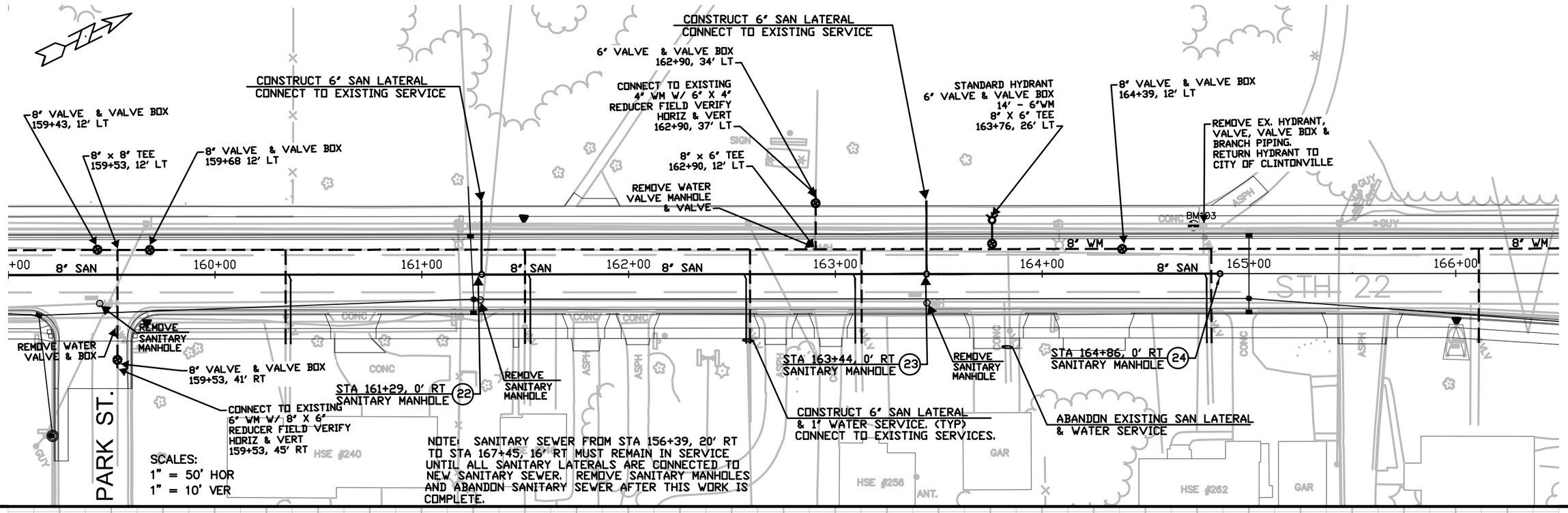
HSE #137 HSE #139 HSE #153 HSE #161 HSE #140 HSE #146 HSE #150 HSE #152 HSE #154 HSE #158 HSE #164 HSE #172



PROJECT NO: 6250-01-79	HWY: STH 22	COUNTY: WAUPACA	SANITARY SEWER / WATER MAIN	SHEET	E



PROJECT NO: 6250-01-79	HWY: STH 22	COUNTY: WAUPACA	SANITARY SEWER / WATER MAIN	SHEET	E



PROJECT NO: 6250-01-79	HWY: STH 22	COUNTY: WAUPACA	SANITARY SEWER / WATER MAIN	SHEET	E

STANDARD HYDRANT
6" VALVE & VALVE BOX
26' - 6"WM
8" X 6" TEE
168+90, 38' LT

GREEN TREE RD.

REMOVE EX. HYDRANT, VALVE, VALVE BOX & BRANCH PIPING. RETURN HYDRANT TO CITY OF CLINTONVILLE

BM100

BM101

FILLER CAPS

CANOPY

SEPTIC

HSE

GRAVEL

ASPH

SIGN

GUY

8" WM

8" SAN

167+00

168+00

169+00

170+00

171+00

172+00

173+00

174

REMOVE SANITARY MANHOLE

ADJUST SANITARY MANHOLE

ADJUST WATER VALVE BOX

CONNECT TO EXISTING 6" VALVE FIELD VERIFY HORIZ & VERT 169+52, 2' LT

STA 169+06, 20' RT
SANITARY MANHOLE (26)

CLEANOUT REQUIRED

ABANDON WATER SERVICE

STH 156

CONSTRUCT NEW WATER SERVICE

CONSTRUCT NEW WATER SERVICE (VERIFY LOCATION)

AL'S BAR & GRILL

ADJUST SANITARY MANHOLE

SCALES:
1" = 50' HOR
1" = 10' VER

CONSTRUCT 6" SAN LATERAL & 1" WATER SERVICE. (TYP) CONNECT TO EXISTING SERVICES.

STA 166+97, 12' RT
SANITARY MANHOLE (25)

STA 170+49, 85' RT
SANITARY CONNECTION (27)

5

5

25

850.11

26

843.82

7.0' MIN COVER OVER 8" WM

838.21

8-INCH SAN
209' @ -2.99%

STA. 169+52
CONNECT TO EX. 6" VALVE
VERIFY LOCATION

831.96

8-INCH SAN
156' @ -1.90%

BREAK IN GRADE
INV = 842.4

BREAK IN GRADE
INV = 836.7

BREAK IN GRADE
INV = 834.2

BREAK IN GRADE
INV = 834.2

BREAK IN GRADE
INV = 835.6

INSTALL NEW SANITARY LATERALS AND WATER SERVICES TO AVOID CONFLICT WITH NEW STORM SEWER.

CONNECT NEW 8" SANITARY SEWER TO EXISTING SANITARY MANHOLE.
INV. = 829.00
CONSTRUCT OUTSIDE DROP ON ON EXISTING MANHOLE

851.24 | 849.10 | 846.07 | 842.39 | 838.69 | 835.01 | 831.75 | 829.06

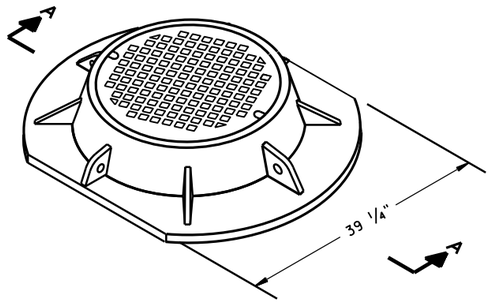
850 845 840 835 830 825 820 815

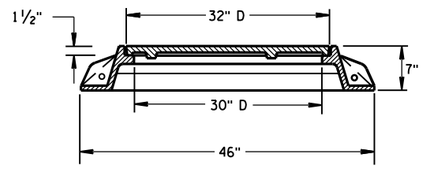
166+50 167+00 167+50 168+00 168+50 169+00 169+50 170+00 170+50 171+00 171+50 172+00 172+50 173+00 173+50 174+00

PROJECT NO: 6250-01-79	HWY: STH 22	COUNTY: WAUPACA	SANITARY SEWER / WATER MAIN	SHEET	E

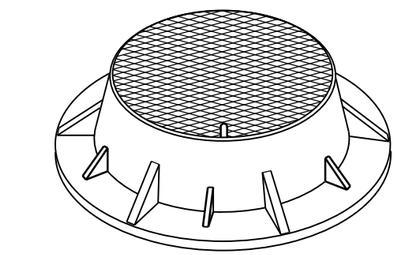
Standard Detail Drawing List

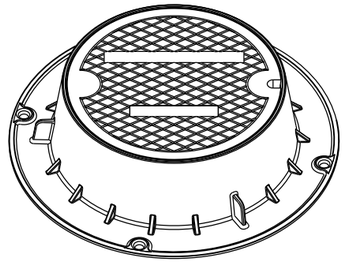
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
15D30-02A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-02B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-02C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

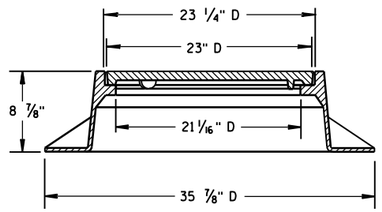


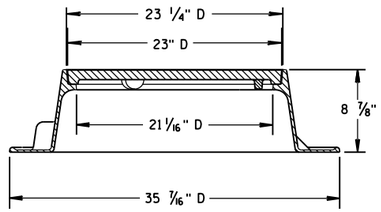


SECTION A-A
TYPE "K"









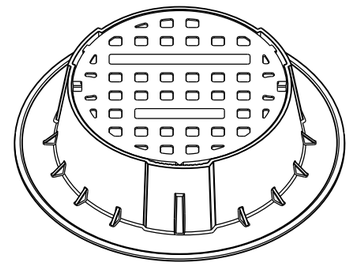
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

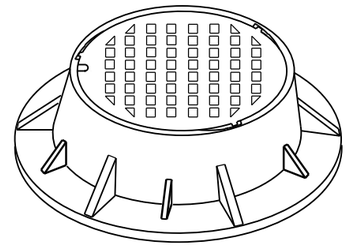
GENERAL NOTES

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.

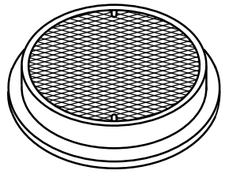
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

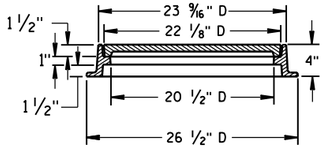
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



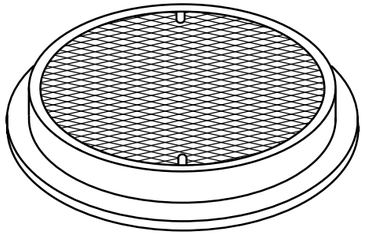


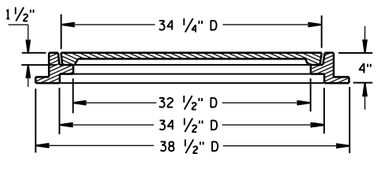
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



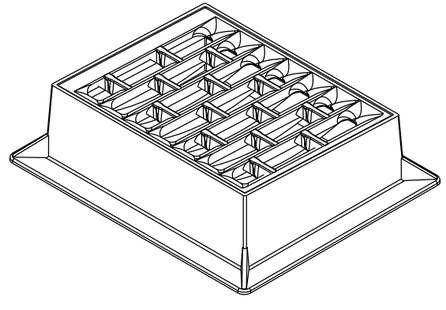


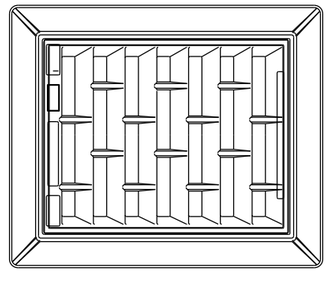
TYPE "L"

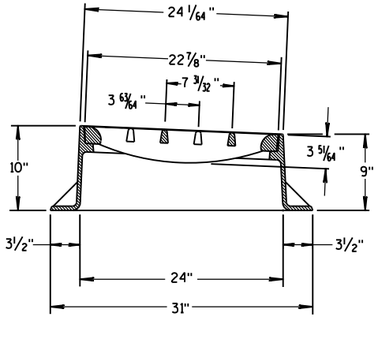


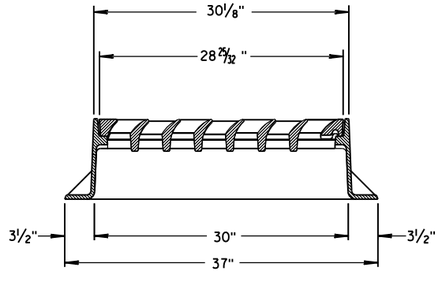


TYPE "M"









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

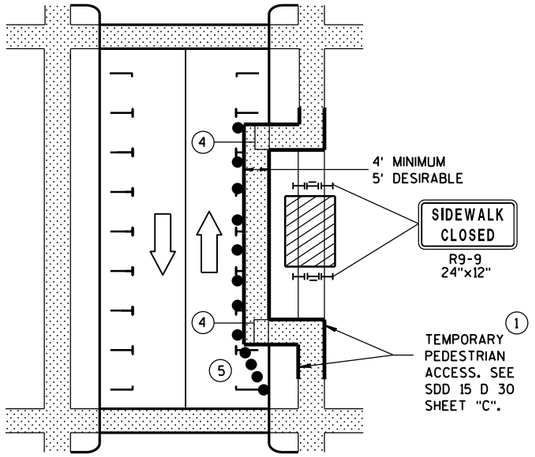
6

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

6

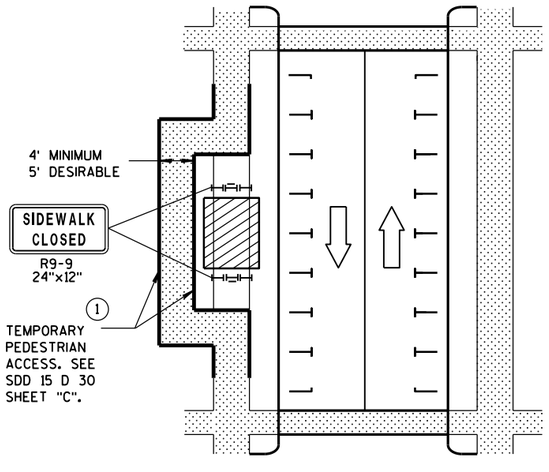
S.D.D. 8 A 5-19d

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

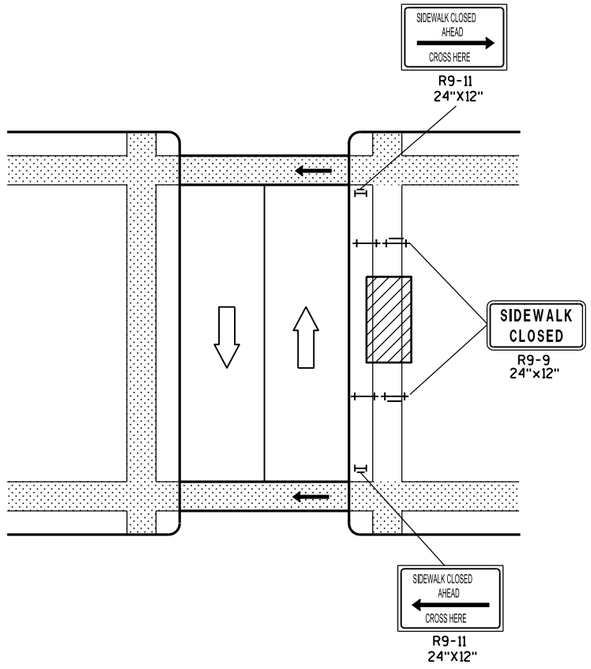


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

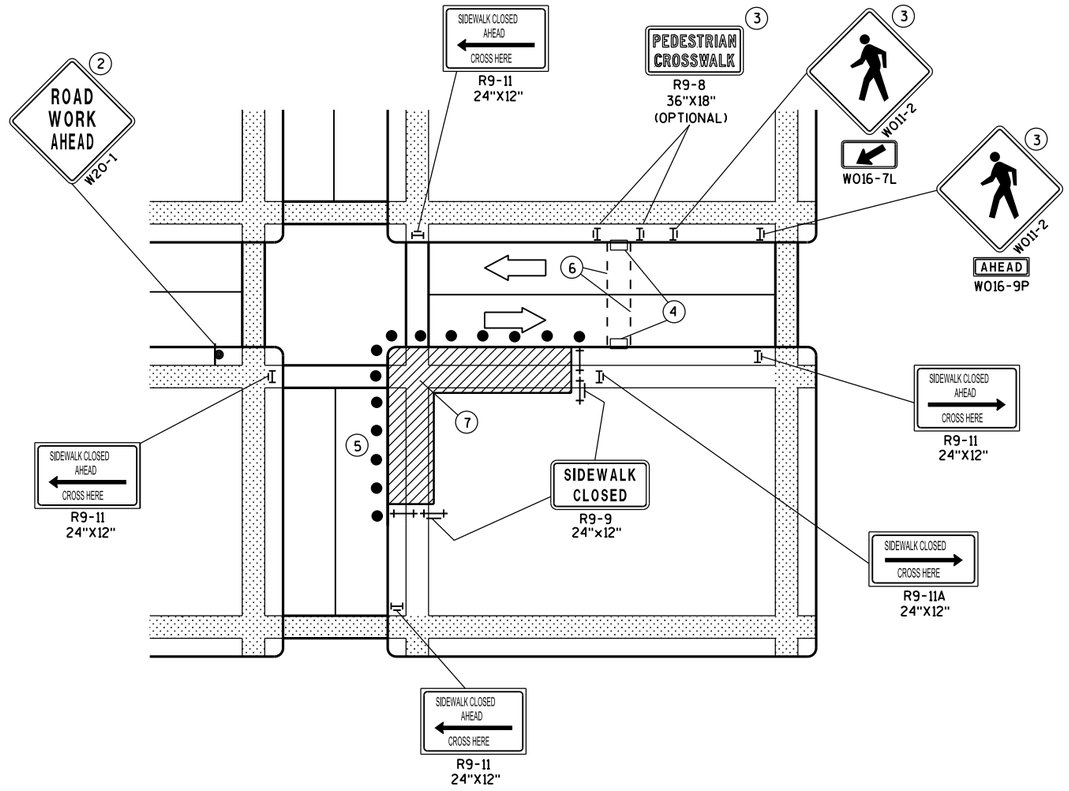
NOTE: LAYOUT SAME AS ABOVE.



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 NIGHTTIME 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 BETWEEN 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 W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 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
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- 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)
- DIRECTION OF TRAFFIC
- TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 30-2a

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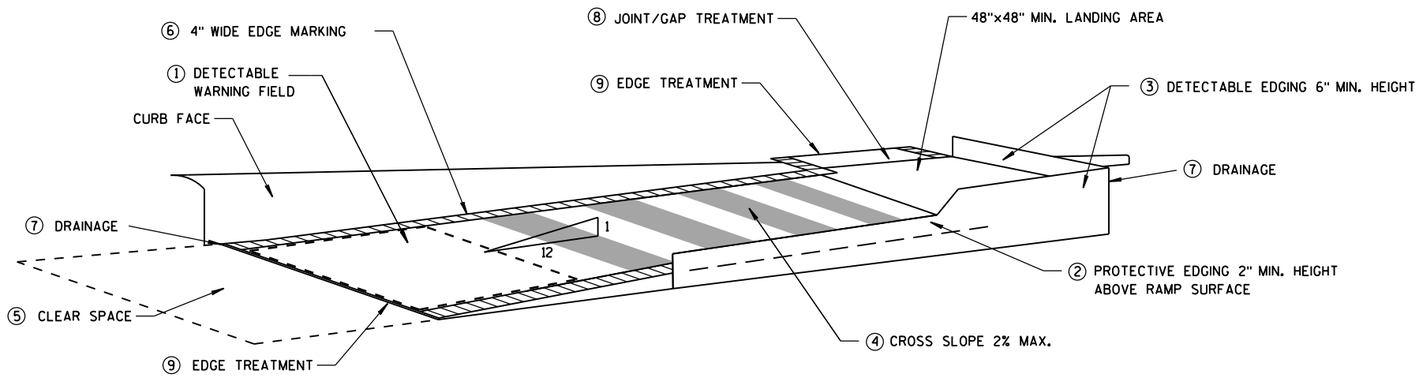
S.D.D. 15 D 30-2a



TEMPORARY CURB RAMP PARALLEL 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 FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 8D5 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"X48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

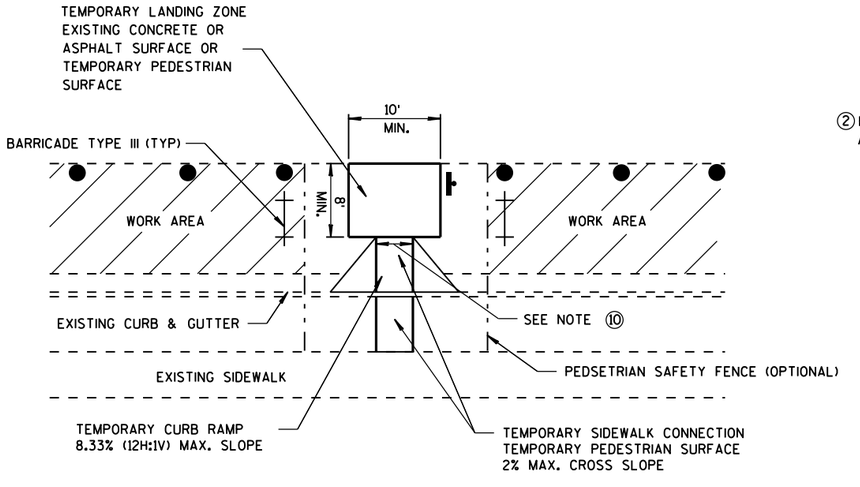
⑥ THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.

⑦ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

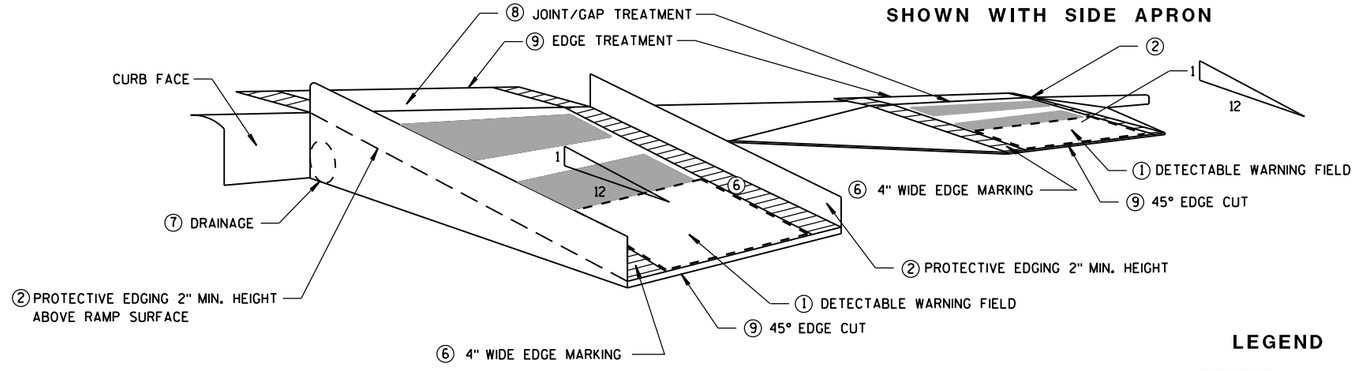
⑧ LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

⑨ CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHALL BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

⑩ 5' WIDE MIN. WITH PEDSETRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.



TEMPORARY BUS STOP PAD



SHOWN WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

LEGEND

WORK AREA

TYPE III BARRICADE

TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

March 2015 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER — SIGN

FHWA

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S.D.D. 15 D 30-2b

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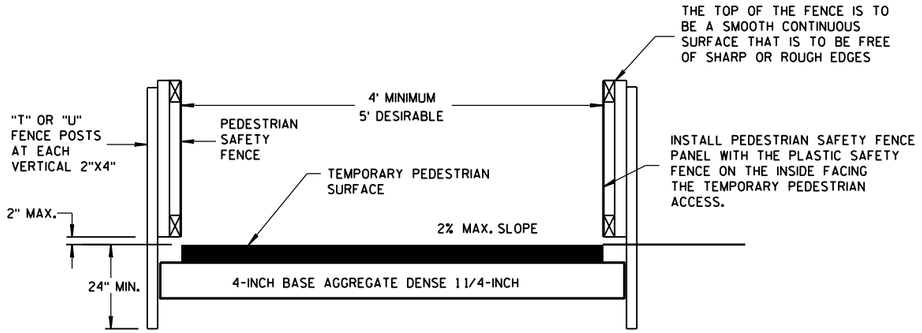
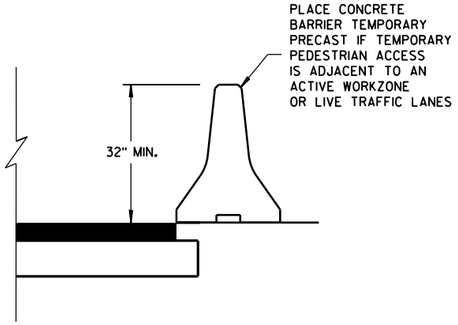
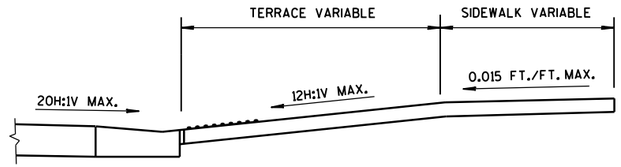




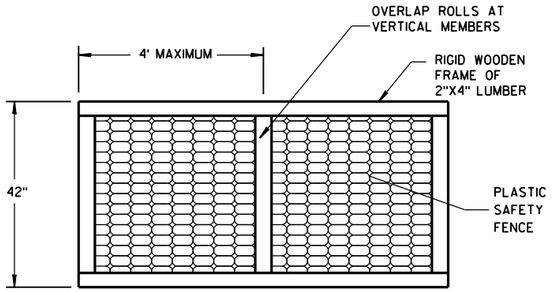
TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

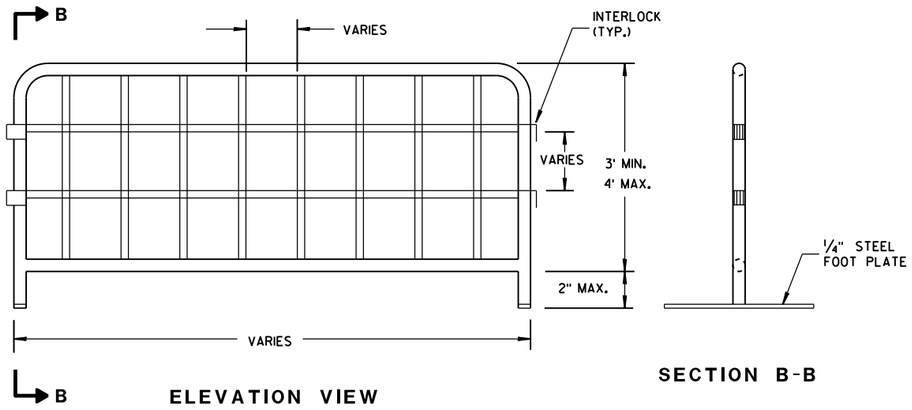
(1) INTERCHANGEABLE WITH THE PEDESTRIAN SAFETY FENCE.



SECTION A-A



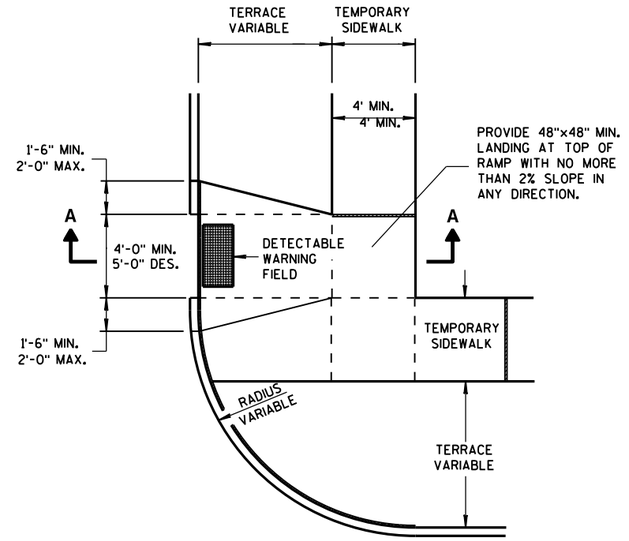
PEDESTRIAN SAFETY FENCE



ELEVATION VIEW

SECTION B-B

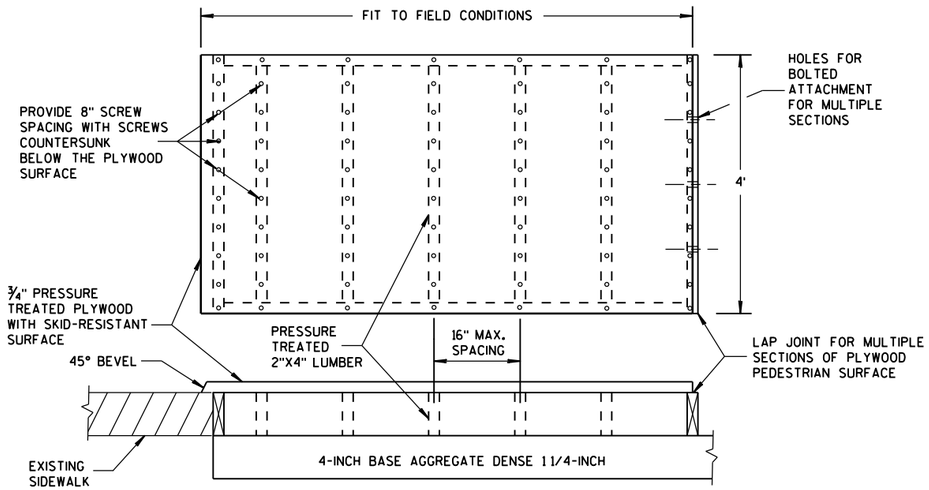
TEMPORARY PEDESTRIAN STEEL BARRICADE (1)



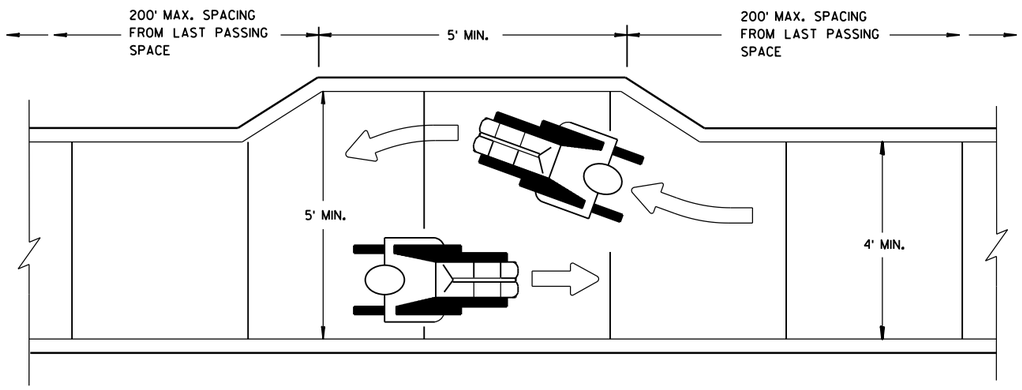
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



NARROW SIDEWALK PASSING DETAIL

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
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APPROVED
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Notes

Wisconsin Department of Transportation

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