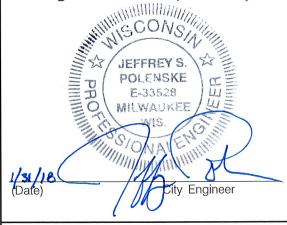


STATE PROJECT	FEDERAL PROJECT						
STATE PROJECT	PROJECT	CONTRACT					
2025-00-70	WISC 2018192	1					

# Accepted For City of Milwaukee

Commissioner of Public Works

# Original Plans Prepared By



### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

# PREPARED BY

City of Milwaukee Surveyor City of Milwaukee Designer Project Manager District Examiner District Supervisor C.O. Examiner

APPROVED FOR THE DISTRICT OFFICE

DATE: 2/ V2012 Chr & net Pappa

#### GENERAL NOTES

- I. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
- 2. THE CONTRACTOR SHALL GIVE THE PROJECT ENGINEER AT LEAST TWO WEEKS NOTICE PRIOR TO ANY CONSTRUCTION ACTIVITIES THAT MAY DISTURB ANY PUBLIC SURVEY MONUMENTS.
- 3. IMMEDIATELY AFTER CONSTRUCTION OF ANY INLET, CONTRACTOR SHALL INSTALL THE INLET PROTECTION TO MINIMIZE SEDIMENTATION IN THE INLET AND STORM SEWER.
- 4. RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND MULCH/ EROSION MAT TOP-SOILED AREAS. AS DESIGNATED BY THE ENGINEER WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOP-SOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, AND SEED THOSE AREAS WITH TEMPORARY SEED AND MULCH.
- 5. STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS, AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF THE STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH.
- 6. EROSION CONTROL BMP'S ARE AT SUGGESTED LOCATION. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE MAINTAINED UNTIL PERMANENT PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.
- 7. PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN WITH THE ENGINEER.
- 8. EXISTING DRIVEWAYS AND FIELD ENTRANCES SHALL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.
- 7. TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- 9. EXPANSION JOINTS SHALL BE CONSTRUCTED AT ALL RADIUS POINTS IN CURB AND GUTTER.
- IO. ANY MESH OR REINFORCEMENT FOUND DURING REMOVAL OF THE PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE ITEM 'REMOVING PAVEMENT'.
- II. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
- 12. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK.
  ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.
- 13. ALL PRIVATE EXISTING UTILITIES ARE TO BE ADJUSTED BY THE UTILITIES CONCERNED, UNLESS NOTED IN THE PLANS.
- 14. THESE PLANS SHOW UTILITY FACILITIES EXISTING AT THE TIME OF THE ORIGINAL SURVEY IN JULY OF 2016.
  CONTRACTOR IS ENCOURAGED TO CONTACT CITY OF MILWAUKEE PLANNING AND PERMITS SECTION AT (414) 286-2487
  TO IDENTIFY ANY UTILITY FACILITIES INSTALLED AFTER THIS DATE.

### STANDARD ABBREVIATIONS

ASPH.	- ASPHALT	MMSD	- MILWAUKEE METROPOLITAN SEWERAGE DISTRICT
В.М.	- BENCH MARK	NB	- NORTHBOUND
CTR.	- CENTER	P/L	- PROPERTY LINE
C/L	- CENTER LINE	PGL	- PROPOSED GRADE LINE
COMB.	- COMBINED	R OR RAD.	- RADIUS
CONC.	- CONCRETE	RET.	- RETAINING
C.W.	- CONCRETE WALK	RT	- RIGHT
COR.	- CORNER	R/W	- RIGHT OF WAY
C	- CURB	SB	- SOUTHBOUND
ELEV.	- ELEVATION	TEL	- AMERITECH
ENT.	- ENTRANCE	TES	- TRAFFIC ENGINEERING,
EXIST.	- EXISTING		AND ELECTRICAL SERVICES
F	- FLANGE	T/L	- TRANSIT LINE
G	- GUTTER, OR GAS	V.T. OR VT	- VARIABLE THICKNESS
HYD.	- HYDRANT	WEP	- WISCONSIN ELECTRIC POWER
LT	- LEFT		

ORDER OF SECTION 2 SHEETS

GENERAL NOTES

UTILITY CONTACTS

TYPICAL SECTION

CONSTRUCTION DETAILS

CURB RAMP DETAILS

REMOVAL PLAN

UTILITIES

STORM SEWER

PLAN DETAILS

PAVEMENT MARKING

TRAFFIC CONTROL & CONSTRUCTION STAGING

ALIGNMENT

STATE PROJECT NUMBER 2025-00-70 HWY: STH 190 COUNTY: MILWAUKEE GENERAL NOTES SCALE FEET SHEET NO: E

FILENAME: W:\SPR\CAPITOL - 35TH MEDIAN ALT\GENNOTES.DGN

# UTILITY CONTACTS

#### AT&T WISCONSIN

DAVID IRELAND 425 S. 95TH. ST. MILWAUKEE, WI 53214 PHONE: 414-257-0012 CELL: 414-469-1221

#### CHARTER COMMUNICATIONS

STEVE CRAMER 1320 N. DR. MARTIN LUTHER KING JR. DR. MILWAUKEE, WI 53212 PHONE: 414-277-4045 CELL: 414-688-2385 wis.engineering@twcable.com

#### CITY OF MILWAUKEE, UTILITY COORDINATOR

MOHAMMAD ABULUGHOD 841 N. BROADWAY RM 710 MILWAUKEE, WI 53202 PHONE: 414-286-2767 mabulu@milwaukee.gov

#### CITY OF MILWAUKEE, COMMUNICATIONS

COMMUNICATIONS DISPATCH 1440 WEST CANAL STREET MILWAUKEE, WI 53233 PHONE: 414-286-3686

#### CITY OF MILWAUKEE, CUC

KAREN ROGNEY 841 N. BROADWAY MILWAUKEE, WI 53202 PHONE: 414-286-3243

#### CITY OF MILWAUKEE, FORESTRY

JAMES KRINGER 841 N. BROADWAY MILWAUKEE, WI 53202 CELL: 414-708-2428

#### CITY OF MILWAUKEE, SEWERS

ZAFAR YOUSUF 841 N. BROADWAY MILWAUKEE, WI 53202 PHONE: 414-286-2467

#### CITY OF MILWAUKEE, STREET LIGHTING

DENNIS MILLER 1540 W. CANAL ST. MILWAUKEE, WI 53233 PHONE: 414-286-5942 CELL: 414-708-4251

#### CITY OF MILWAUKEE, TRAFFIC SIGNALS

AL NICHOLS 1540 W. CANAL ST. MILWAUKEE, WI 53233 PHONE: 414-286-5941 CELL: 414-708-5148

#### CITY OF MILWAUKEE, WATER

DAVE GOLDAPP 841 N. BROADWAY, ROOM 409 MILWAUKEE, WI 53202 PHONE: 414-286-6301 CELL: 414-708-2965

#### MILWAUKEE METROPOLITAN SEWERAGE DISTRICT

LARRY ANDERSON 260 W. SEEBOTH AVE. MILWAUKEE, WI 53204-1446 PHONE: 414-225-2241 CELL: 414-617-1429

#### WE ENERGIES - ALL CORRESPONDENCE

DAN SANDE 333 W. EVERETT ST., A291 MILWAUKEE, WI 53203 PHONE: 414-221-4578 dan.sande@we-energies.com

#### WE ENERGIES - ELECTRIC

ALEX DANTINNE 500 S. 116TH ST. WEST ALLIS, WI 53214 PHONE: 920-621-6903 alex.dantinne@we-energies.com

### WE ENERGIES - GAS

ALEX DANTINNE 500 S. 116TH ST. WEST ALLIS, WI 53214 PHONE: 920-621-6903 alex.dantinne@we-energies.com

## OTHER CONTACTS

#### WISCONSIN DEPT. OF NATURAL RESOURCES

KRISTINA BETZOLD 2300 N. DR. MARTIN LUTHER KING, JR. DR. MILWAUKEE, WI 53212 PHONE: 414-263-8517 kristina.betzold@wisconsin.gov

### MILWAUKEE COUNTY TRANSIT SYSTEM

MELANIE FLYNN 1942 N. 17TH ST. MILWAUKEE, WI 53205 PHONE: 414-343-1764 mflynn@mcts.org



STATE PROJECT NUMBER 2025-00-70 HWY: STH 190

COUNTY: MILWAUKEE UTILITY CONTACTS

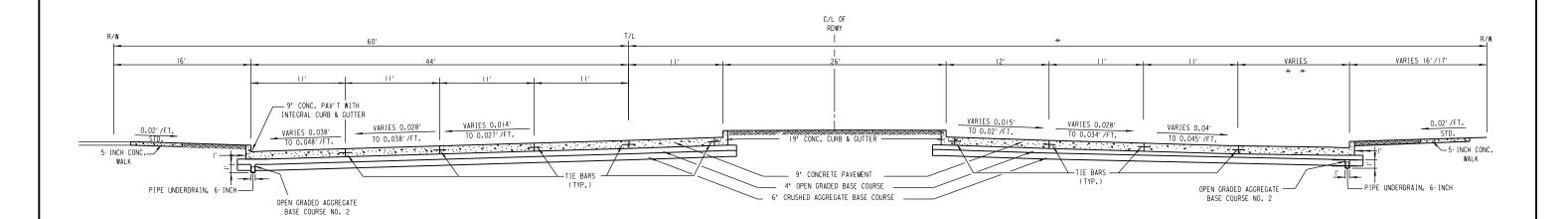
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FILENAME: W:\SPR\CAPITOL - 35TH MEDIAN ALT\GENNOTES.DGN

REVISED DATE: 10-12-2017 BY JH

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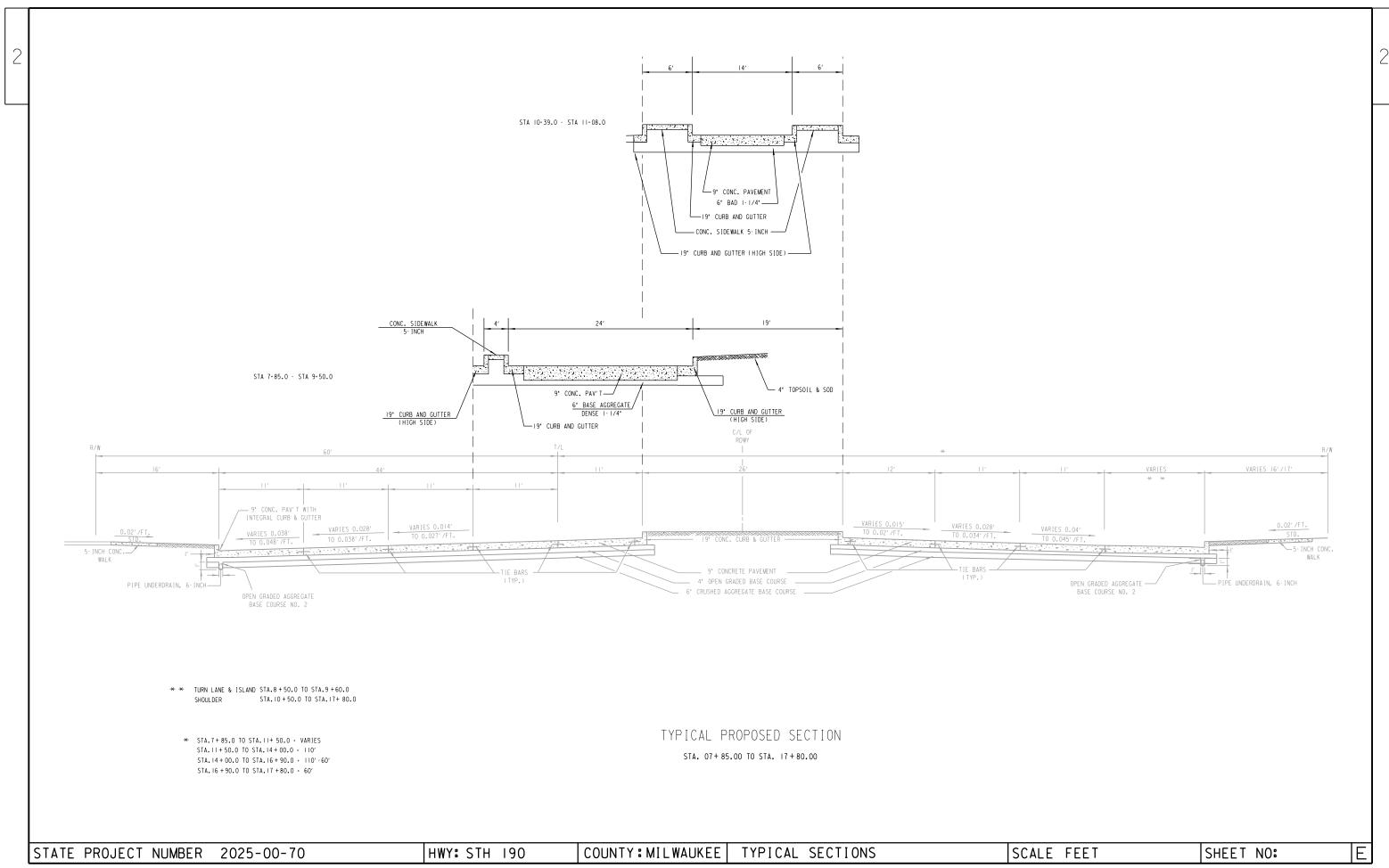


\*\* TURN LANE & ISLAND STA.8 + 50.0 TO STA.9 + 60.0 SHOULDER STA.10 + 50.0 TO STA.17 + 80.0

\* STA. 7 + 85.0 TO STA. 11 + 50.0 • VARIES STA. 11 + 50.0 TO STA. 14 + 00.0 • 110' STA. 14 + 00.0 TO STA. 16 + 90.0 • 110' - 60' STA. 16 + 90.0 TO STA. 17 + 80.0 • 60' TYPICAL EXISTING SECTION

STA. 07 + 85.00 TO STA. 17 + 80.00

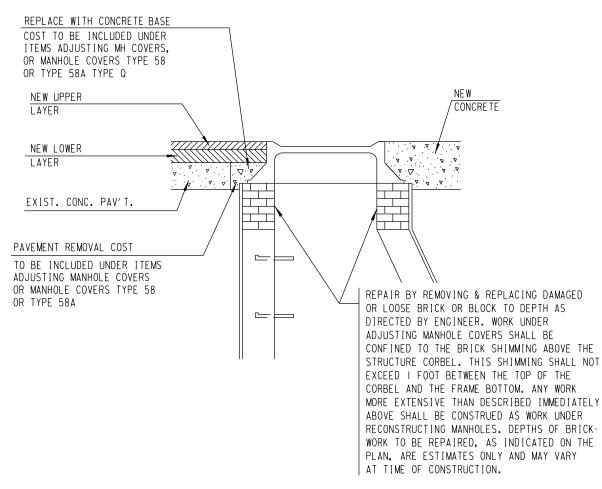
STATE PROJECT NUMBER 2025-00-70 HWY: STH 190 COUNTY: MILWAUKEE TYPICAL SECTIONS SCALE FEET SHEET NO:



FILENAME: W:\SPR\CAPITOL - 35TH MEDIAN ALT\TYPEST.DGN

# CONSTRUCTION NOTES

- I. LOCATIONS OF STRUCTURES IN CURB & GUTTER SECTIONS REFER TO FACE OF CURB.
- 2. LOCATIONS OF STRUCTURES NOT IN CURB AND GUTTER SECTIONS REFER TO CENTERLINE OF STRUCTURE.
- 3. PIPE LENGTHS GIVEN ARE APPROXIMATE OUT TO OUT OF STRUCTURE.
- 4. GRATE & RIM ELEVATIONS ARE GIVEN AT FLOW LINE OF INLET COVER OR AT CENTER-LINE OF MANHOLE COVER.
- 5. WHEN NEW COVERS ARE PLACED, THE FIRST 12" OF ADJUSTMENT OR REPAIRING SHALL BE INCLUDED IN THE COST OF THE NEW COVER. ANY ADJUSTMENT OR REPAIR OF BRICKWORK 12" OR LESS WILL BE PAID AS ADJUSTING COVERS WHEN RESETTING EXISTING COVERS, ANY ADJUSTMENT OR REPAIR OF BRICKWORK MORE THAN 12" WILL BE PAID AS A RECONSTRUCT.
- 6. MANHOLE ADJUSTMENTS IN ASPHALTIC PAVEMENT WILL BE MADE AFTER THE LOWER LAYER IS PLACED.
- 7. WHEN CONSTRUCTING CONCRETE CURB ADJACENT TO INLET COVER TYPE 57, TWO (2) DEFORMED TIE BARS SHALL BE PLACED LONGITUDINALLY THROUGH THE CURB SECTION AND EXTENDED ONE (1) FOOT BEYOND EACH SIDE OF THE FRAME. A DUMMY JOINT SHALL BE CUT IN THE CURB AT EACH SIDE OF THE FRAME.



ADJUSTING MANHOLE COVERS

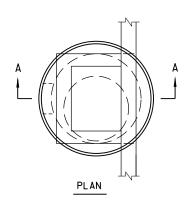
OR MANHOLE COVERS TYPE 58A

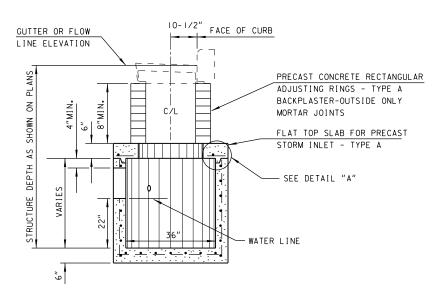
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HWY: STH 190

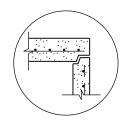
COUNTY: MILWAUKEE | CONSTRUCTION DETAILS

SHEET NO:









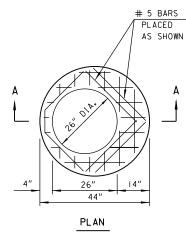
DETAIL "A"

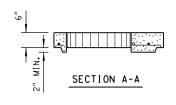
TOP WITH TONGUE AND GROOVE JOINT

STORM INLET - TYPE 45A

#### GENERAL NOTES

- I. PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION MI99 AND ASTM DESIGNATION C-478 AND THESE DETAILED REQUIREMENTS WHICH SHALL GOVERN WHERE THEY ALTER THE AASHTO AND ASTM STANDARDS.
- 2. ALL REINFORCEMENT STEEL SHALL BE GRADE 60 OR GREATER AND EMBEDDED AT LEAST I" CLEAR.
- 3. PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 4 IN DEPTH WHICH MEETS REQUIREMENTS FOR GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.
- 4. SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON PLAN.





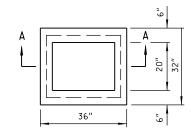
TOP SLAB - TYPE A

FLAT TOP SLAB SHALL BE 6" THICK REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.32 SO. IN. PER LINEAL FOOT IN BOTH DIRECTIONS, PLACED NEAR THE BOTTOM OF THE SLAB WITH I" CLEAR COVER.

ADDITIONALLY, NO. 5 BARS SHALL BE PLACED AROUND TOP SLAB OPENING AS SHOWN.

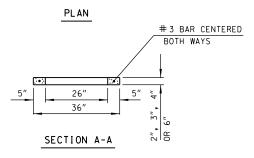
REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 4000 P.S.I.



THE ADJUSTING RINGS SHALL BE 2", 3", 4" OR 6" IN HEIGHT.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 3300 P.S.I.



### RECTANGULAR ADJUSTING RING - TYPE A

C/L OF PIPE
CONNECTION HOLE

C/L
HANDLING
HOLE

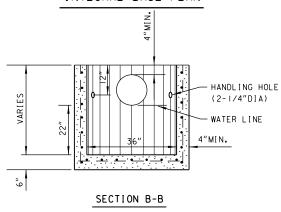
B

C/L
HANDLING
HOLE

C/L
HANDLING
HOLE

44"MIN.

# RISER SECTION WITH INTEGRAL BASE PLAN



CIRCUMFERENTIAL AND LONGITUDINAL REINFORCEMENT IN THE RISER SECTON SHALL EACH CONSIST OF ONE LAYER OF STEEL NOT LESS THAN 0.12 SO. IN. PER FOOT AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.

THE BASE SLAB SHALL BE REINFORCED WITH ONE LAYER OF STEEL WITH A MINIMUM AREA OF 0.32 SO. IN. PER FOOT IN BOTH DIRECTIONS, PLACED ABOVE THE MIDPOINT OF THE SLAB.

RISER SECTION AND BASE SLAB REINFORCEMENT SHALL BE TIED OR WELDED TOGETHER.

TWO TO THREE HANDLING HOLES 2-1/4" IN DIAMETER AND A PIPE CONNECTION HOLE SHALL BE CAST OR CORED IN THE RISER SECTION AT THE LOCATIONS SHOWN.
LIFTING DEVICES MAY BE SUBSTITUTED FOR HANDLING HOLES.

NO JOINTS OR HOLES SHALL BE BELOW THE WATERLINE.

THE MINIMUM COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE 4000 P.S.I.

RISER SECTION MAY TAPER TO A 33" INTERNAL DIAMETER AT IT'S BOTTOM PROVIDED A 44" MINIMUM OUTSIDE DIAMETER IS MAINTAINED.

STATE PROJECT NUMBER 2025-00-70

|HWY: STH 190

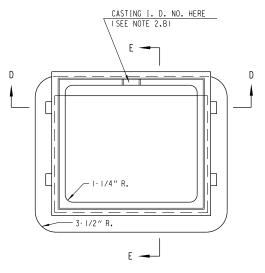
COUNTY: MILWAUKEE | CONSTRUCTION DETAILS

SHEET NO:

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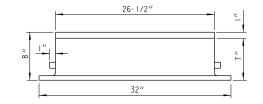
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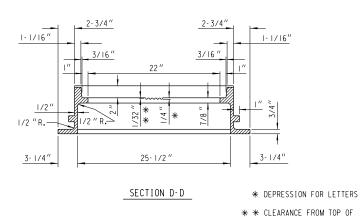


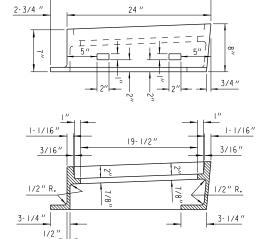


#### FRAME

LETTERS TO FACE OF SEAT

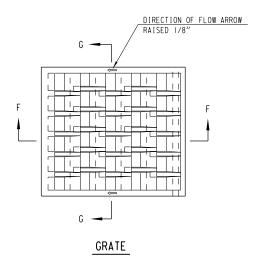


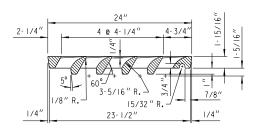


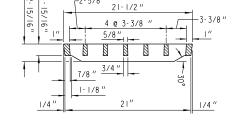


26-3/4 "

SECTION E-E







SECTION F-F

SECTION G-G

### GENERAL NOTES

- I. ALL EDGES ARE TO BE GROUND
- 2. ALL CASTINGS SHALL BEAR THE FOLLOWING IDENTIFICATION MARKS IN THE FORM OF LEGIBLE LETTERS OR NUMERALS RAISED"1/8

#### ON THE FRAME

- A) ON THE UPPER FACE OF THE FLANGE IN 1 INCH HIGH LETTERS THE INITIALS OR MONOGRAM OF THE FOUNDRY, THE YEAR MADE AND THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.
- B) ON THE SEAT OF THE FRAME IN 1 INCH HIGH LETTERS, THE CASTING IDENTIFICATION NUMBER (51).

#### ON THE GRATE

C) ON THE UPPER SIDE OF THE GRATE IN 1 INCH HIGH LETTERS, THE INITIALS OR MONOGRAM OF THE FOUNDRY, THE YEAR MADE, THE CASTING IDENTIFICATION NUMBER (57) AND THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.

INLET COVER - TYPE MS 57

LID-145 LBS., FRAME-204 LBS.

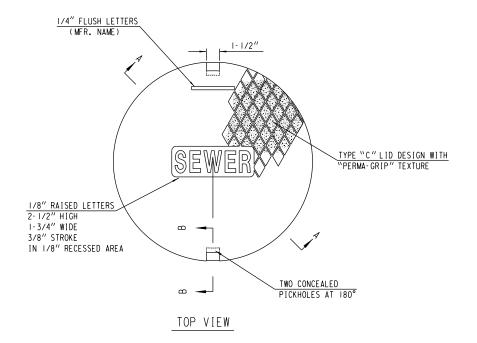
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SHEET NO:

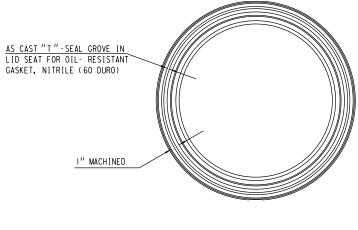
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REVISED DATE: 08-28-2017 BY ML

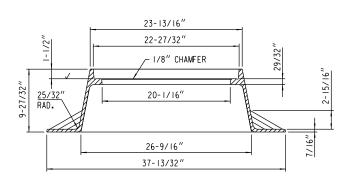




MANHOLE COVER - TYPE 58-A LID - 107 LBS.



BOTTOM VIEW



MANHOLE FRAME - TYPE MS21

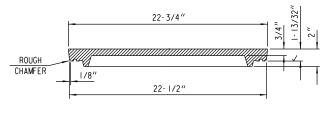
FRAME - 182 LBS.

NOTE:

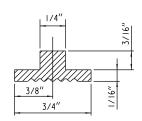
ALL CASTINGS SHALL BEAR THE FOLLOWING IDENTIFICATION MARKS IN THE FORM OF LEGIBLE LETTERS OR NUMERALS RAISED 1/8" HAVING A DIGIT OR LETTER HEIGHT OF ONE INCH ON LOWER FACE OF LID:

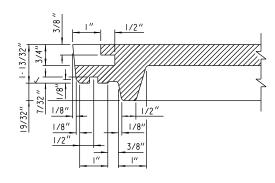
- I. THE INITIALS OR MONOGRAM OF THE FOUNDRY.
- 2. THE CONTRACT NUMBER AND YEAR MADE.
  3. THE CASTING IDENTIFICATION NUMBER.
  4. THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.

NOTE: ALL EXTERIOR EDGES SHALL BE GROUND.



SECTION A-A



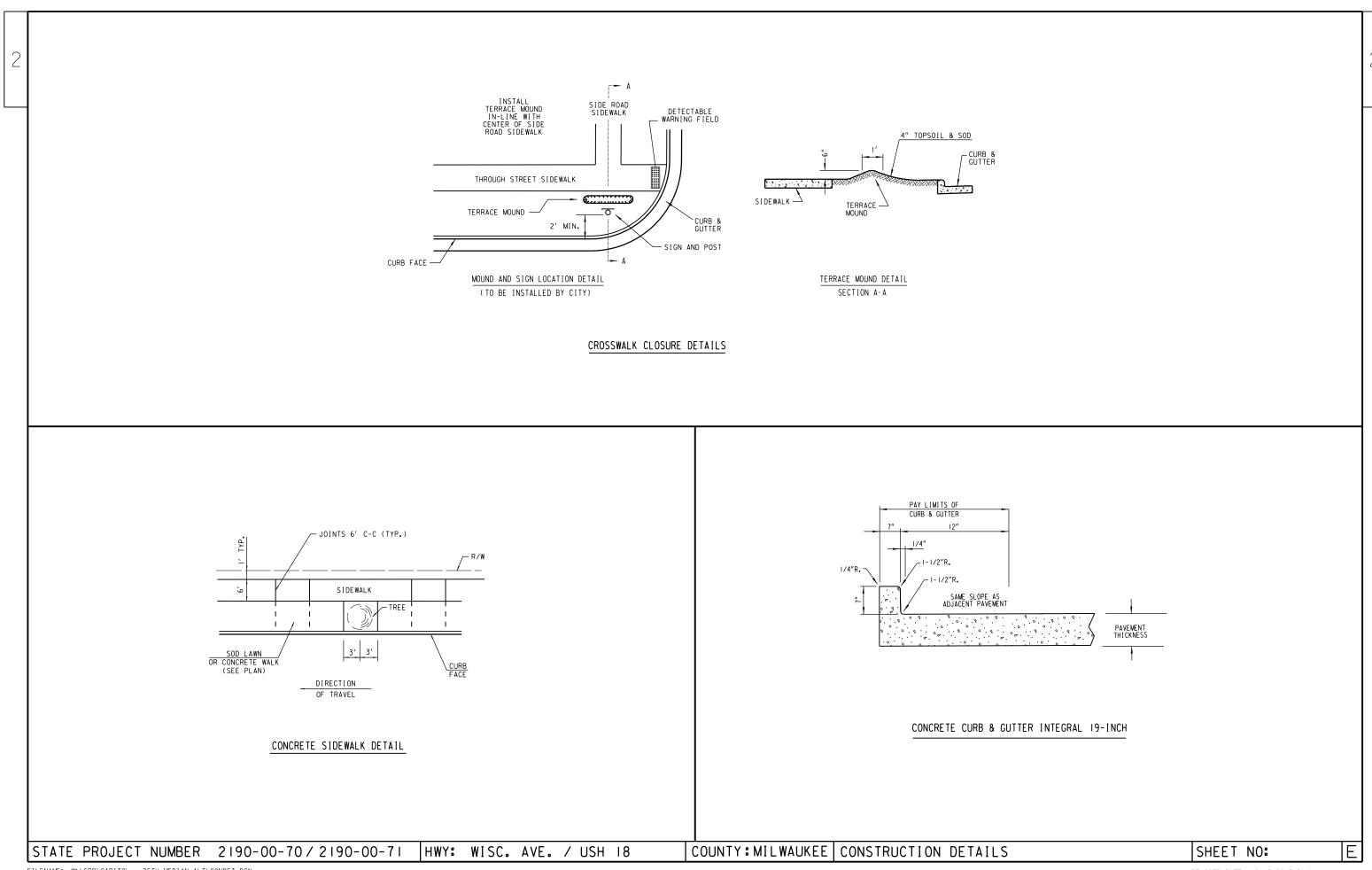


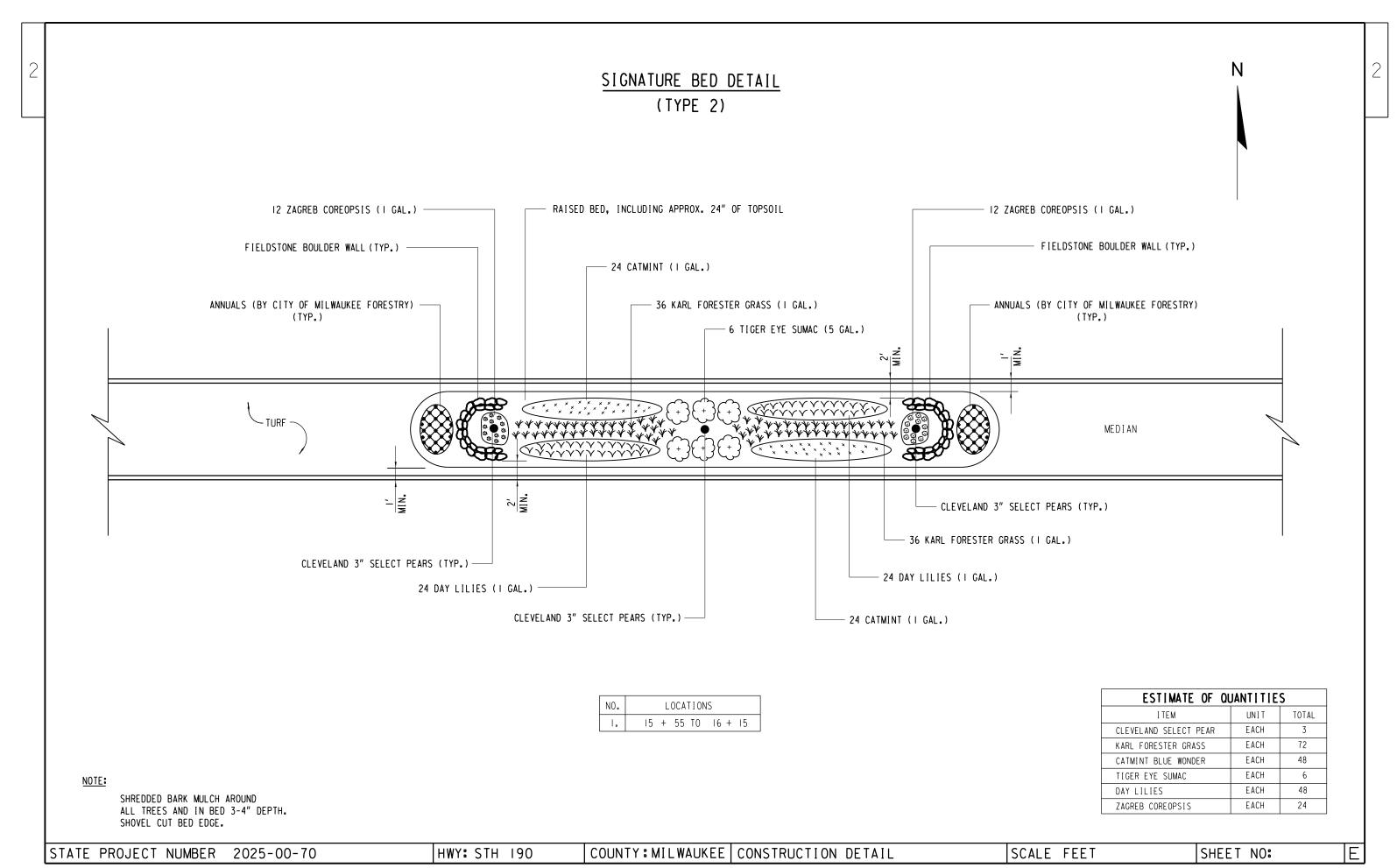
SECTION B-B

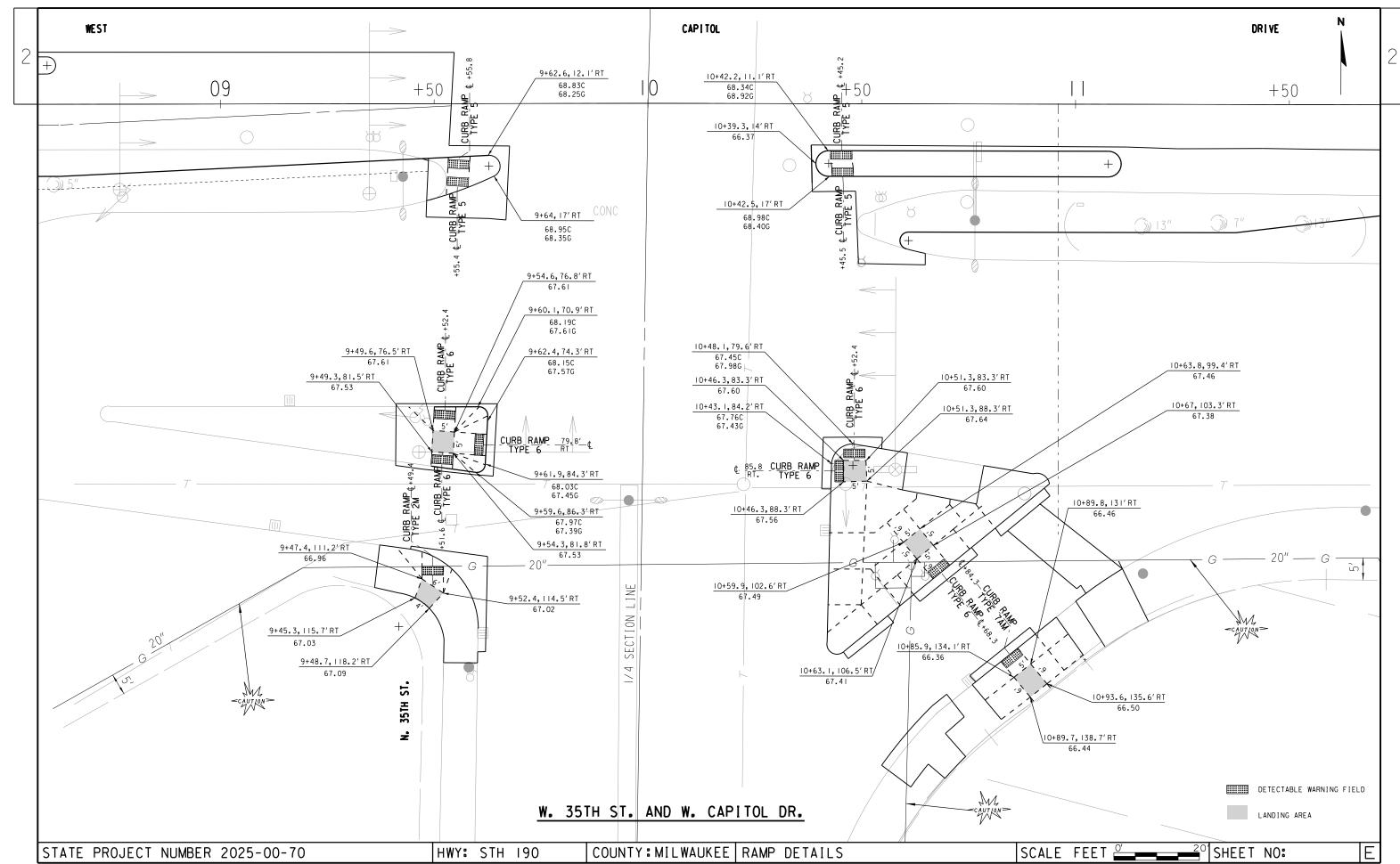
COUNTY: MILWAUKEE | CONSTRUCTION DETAILS STATE PROJECT NUMBER 2025-00-70 HWY: STH 190

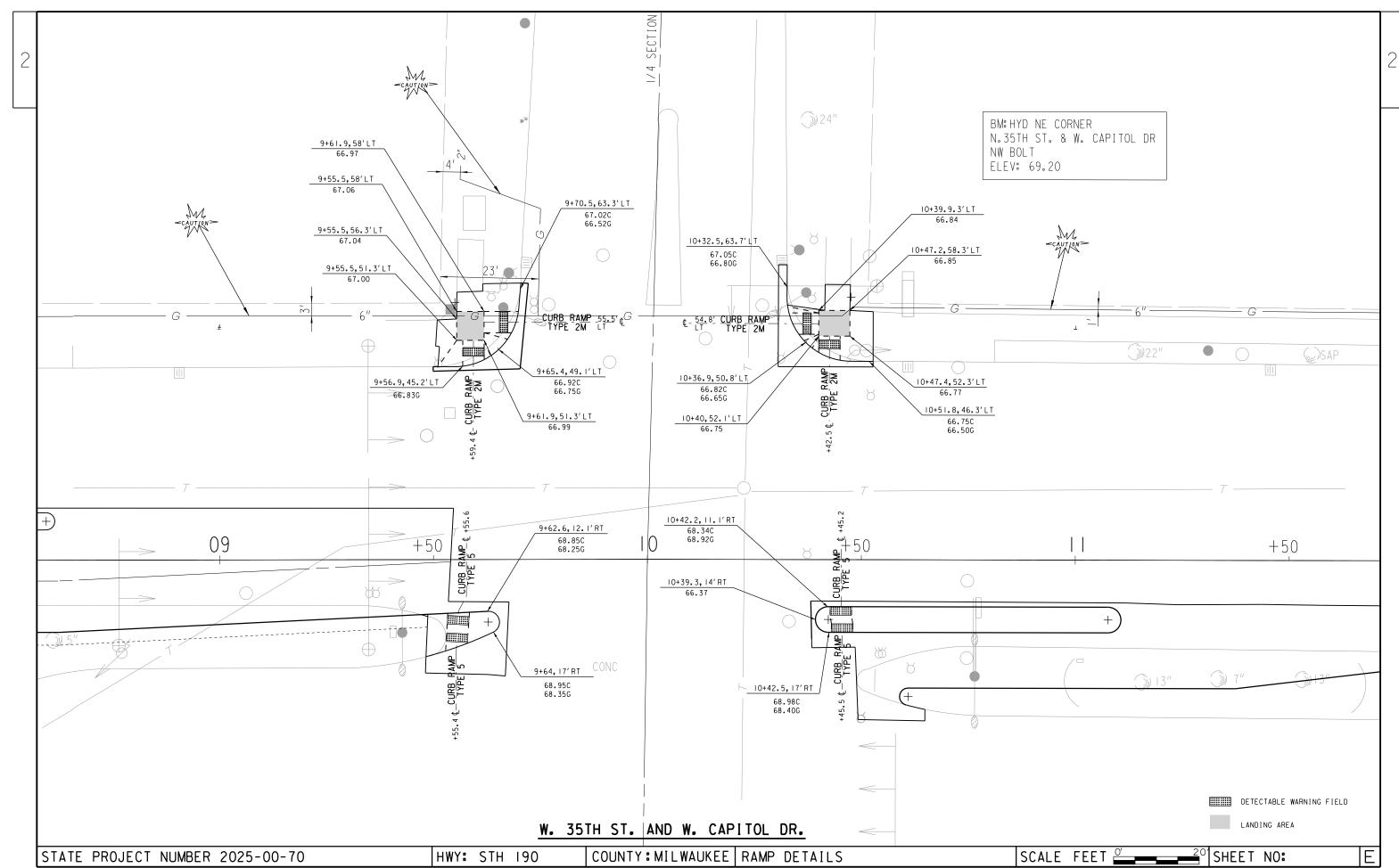
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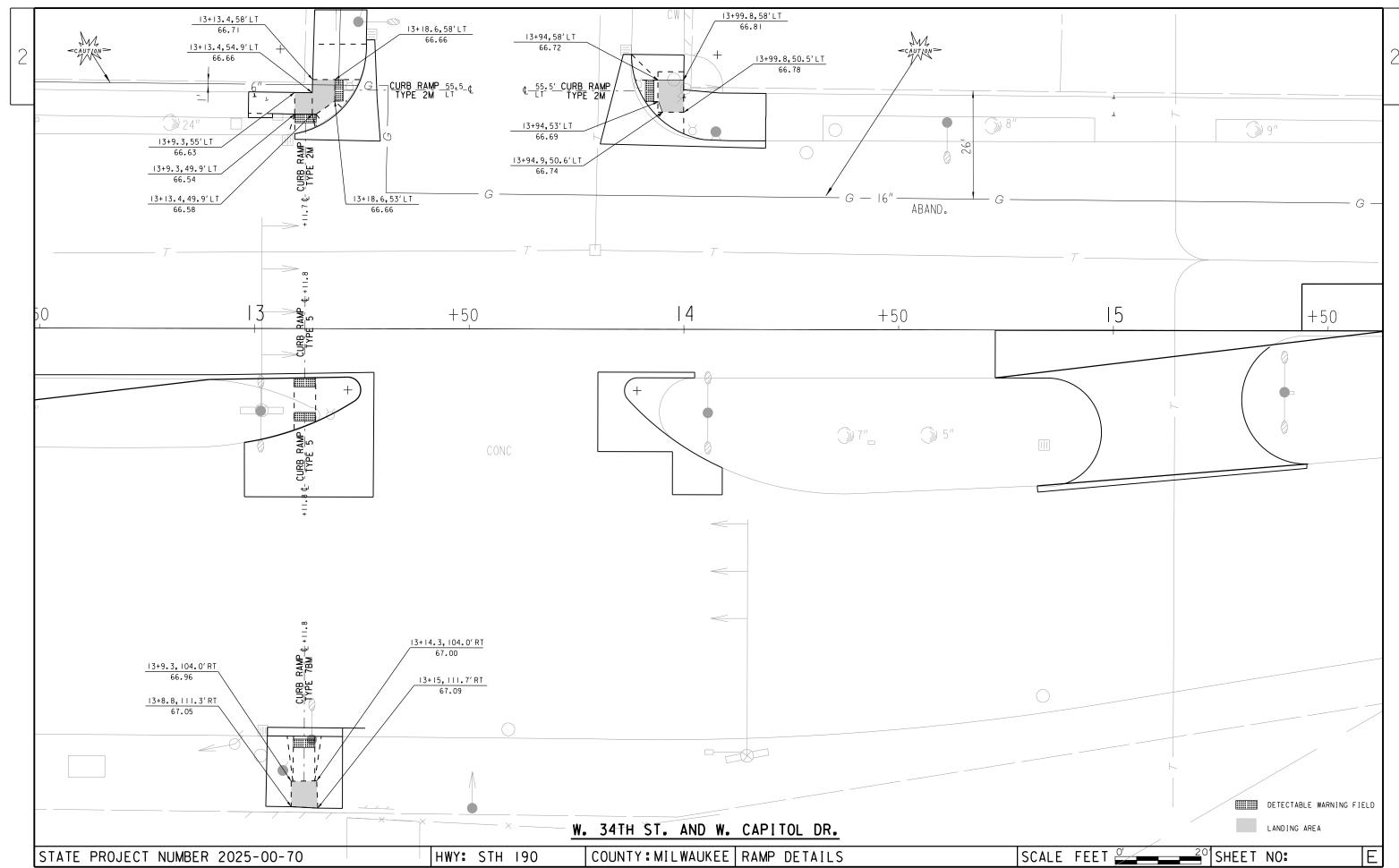
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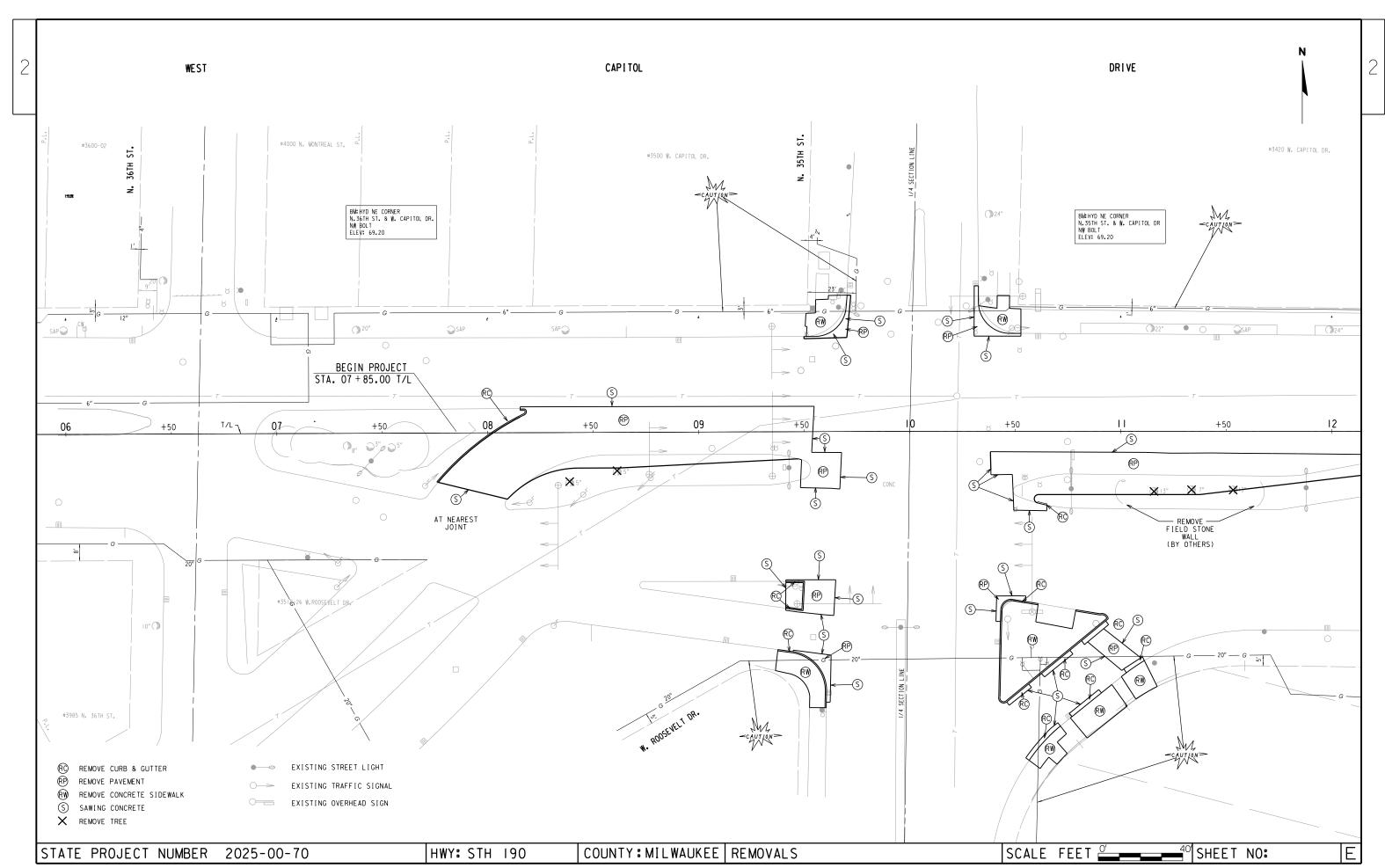


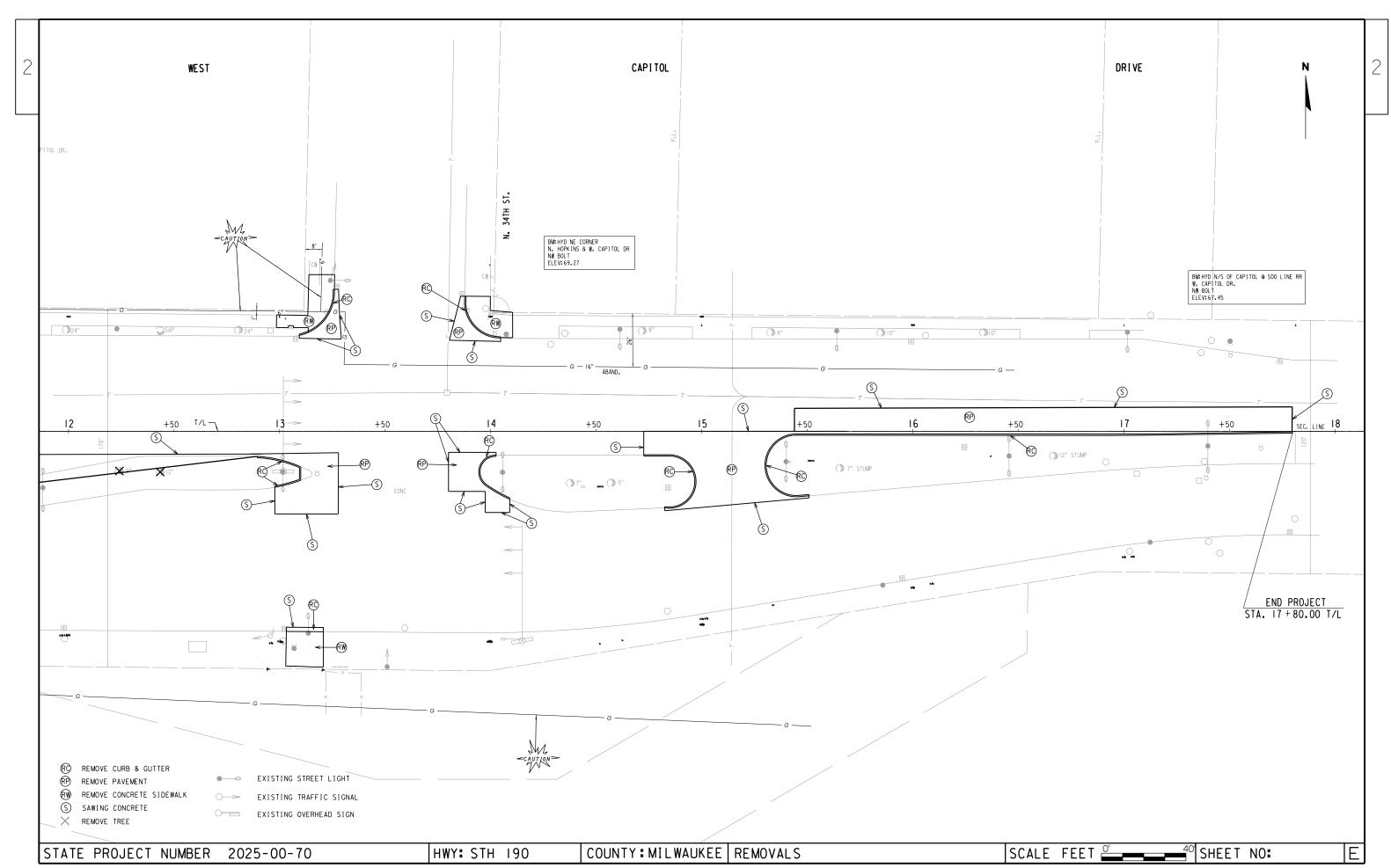


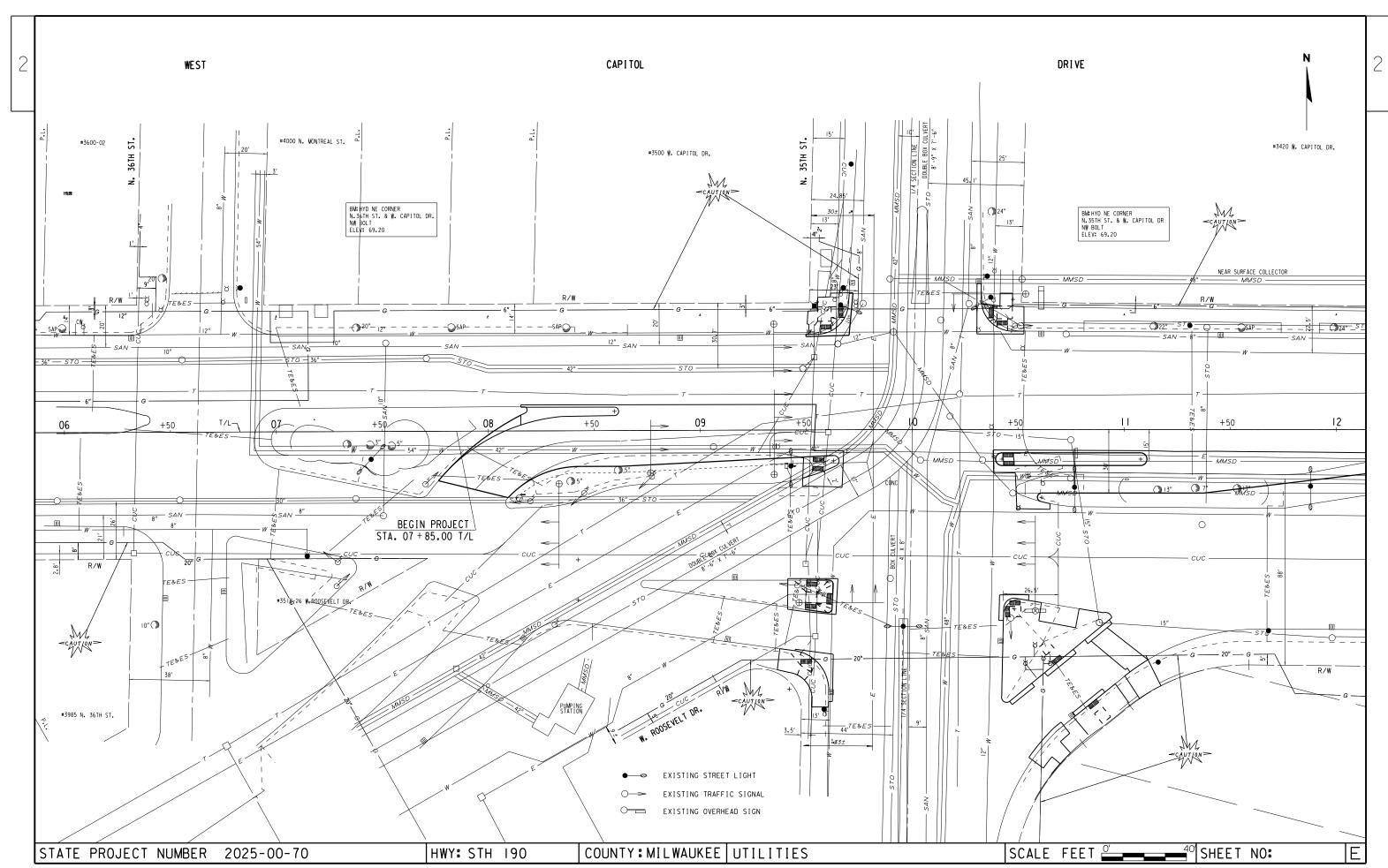


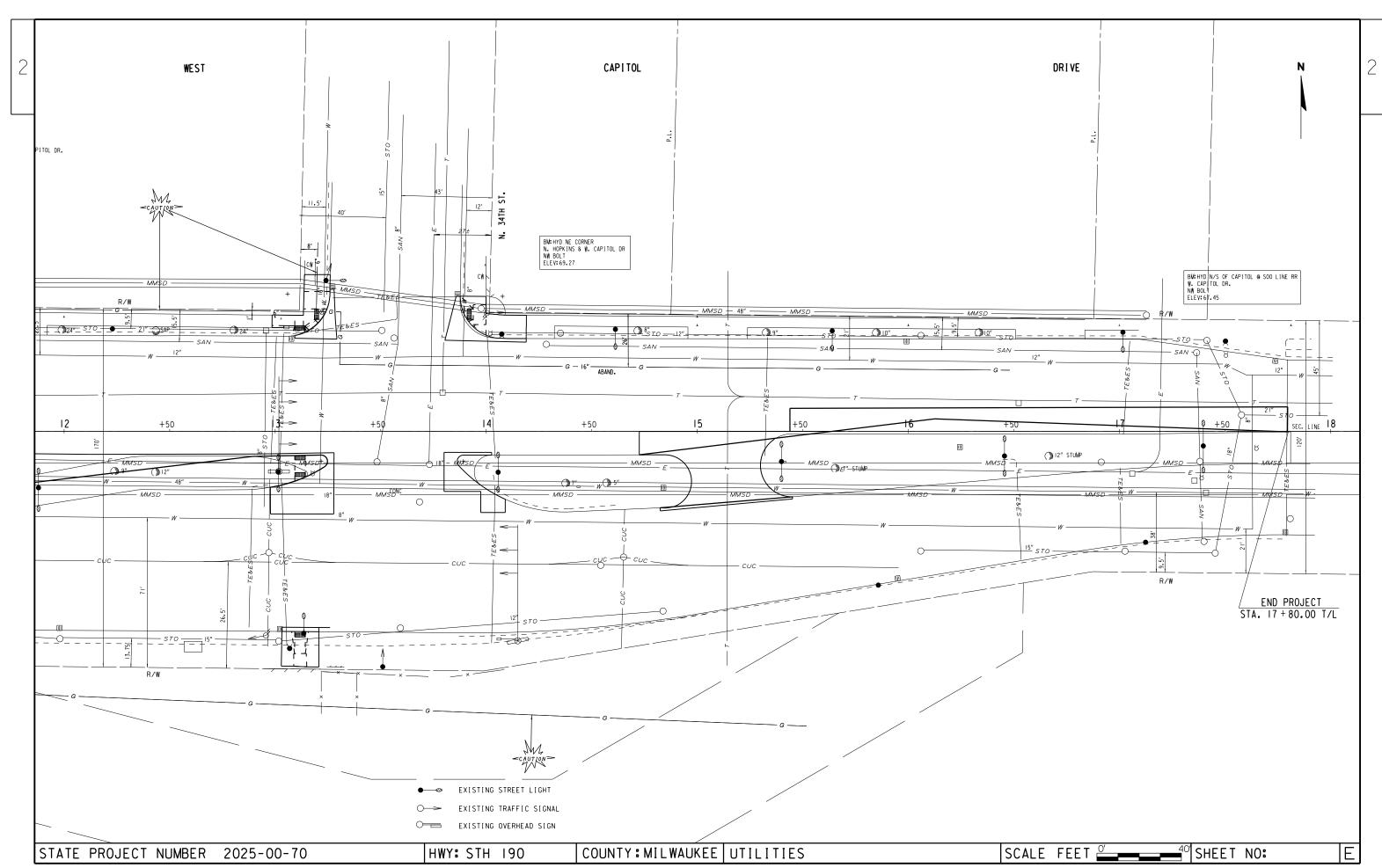


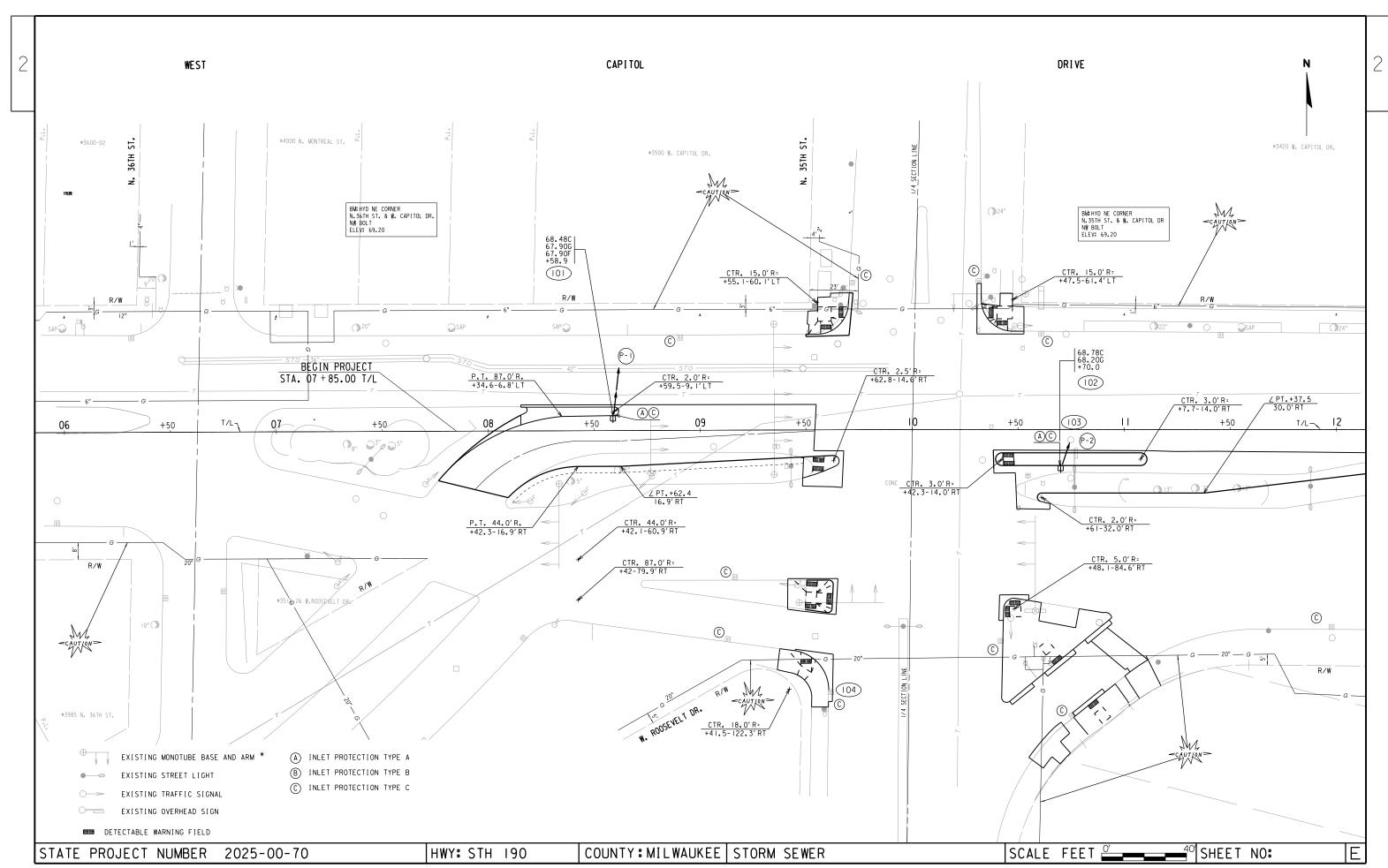


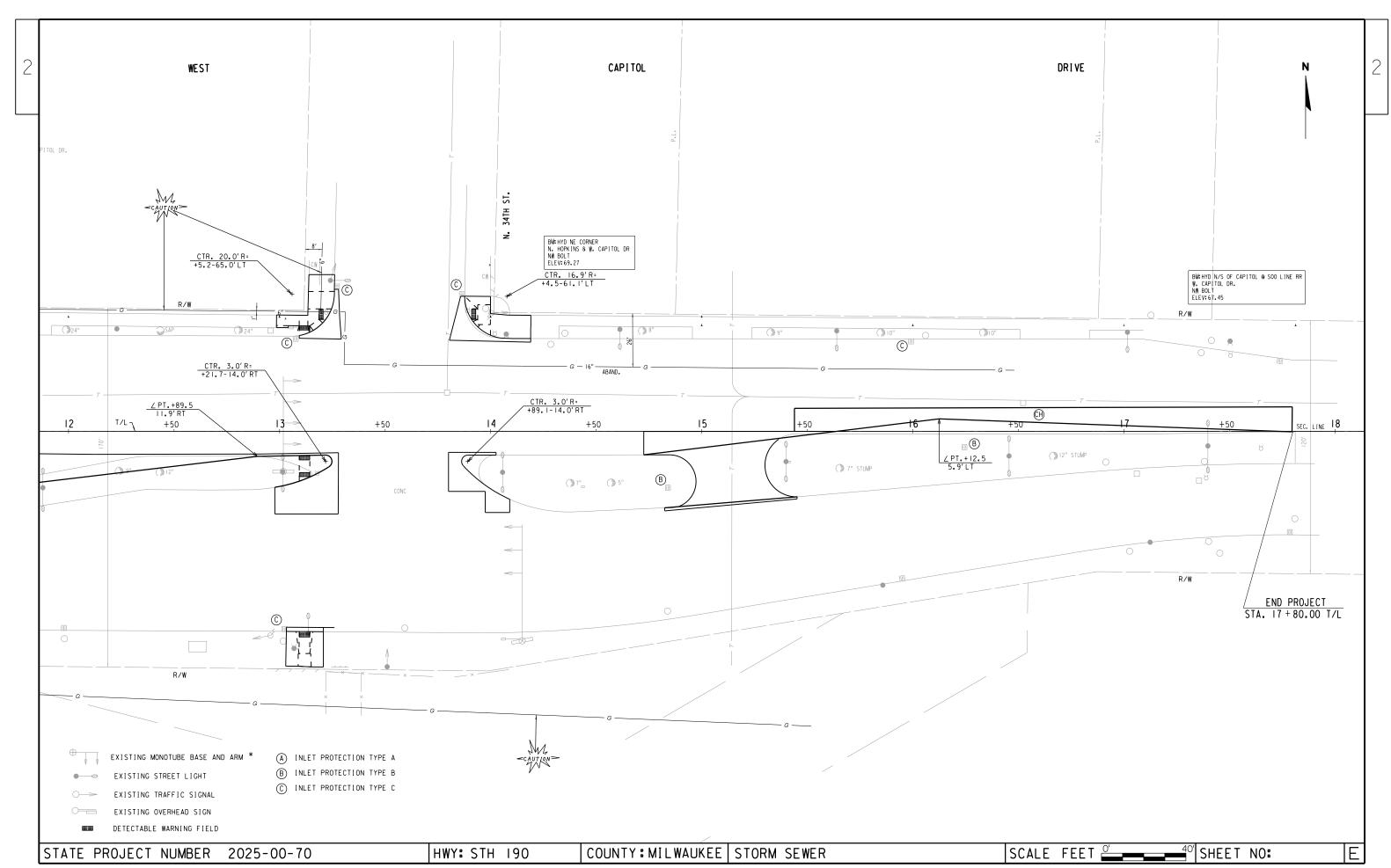


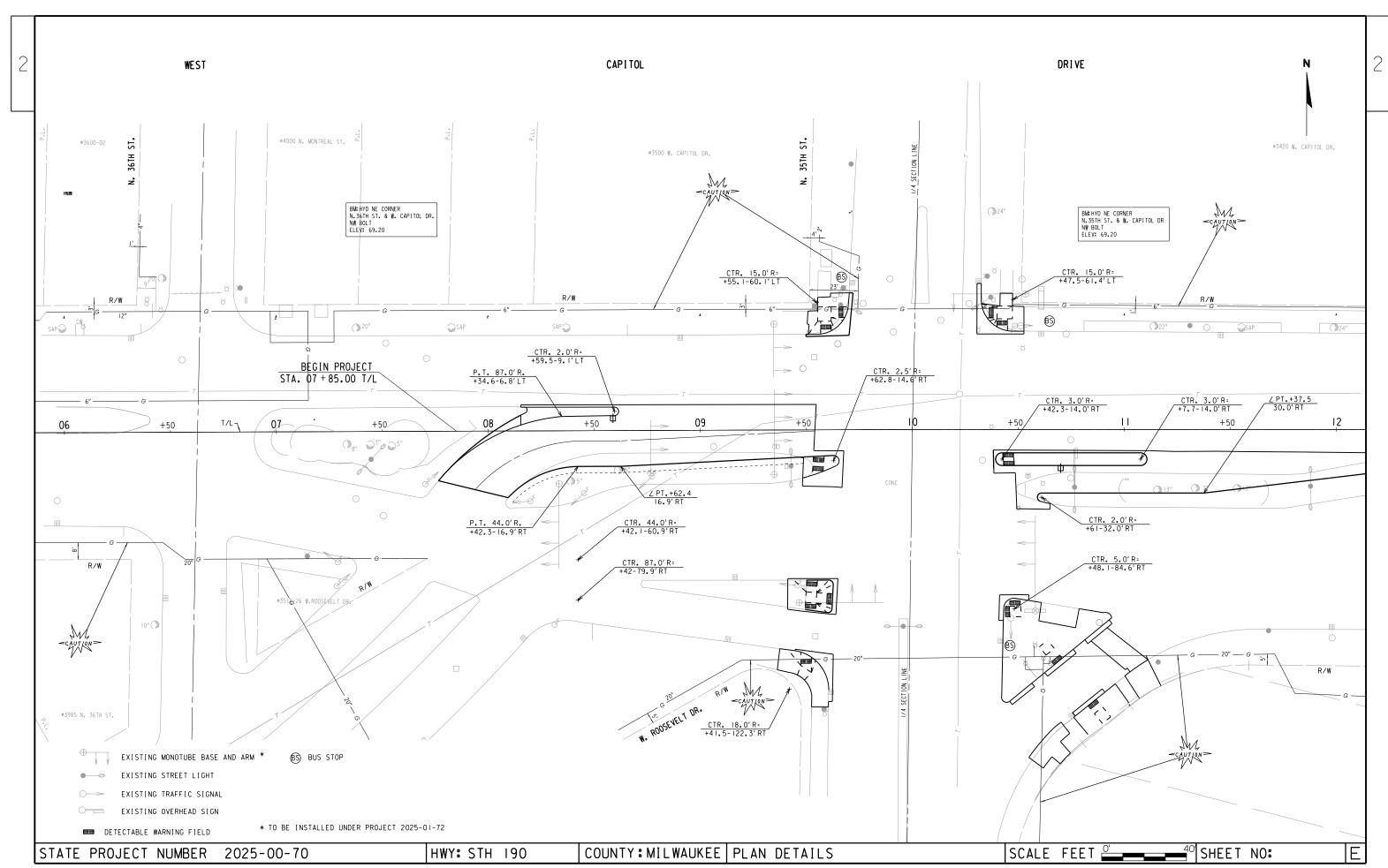


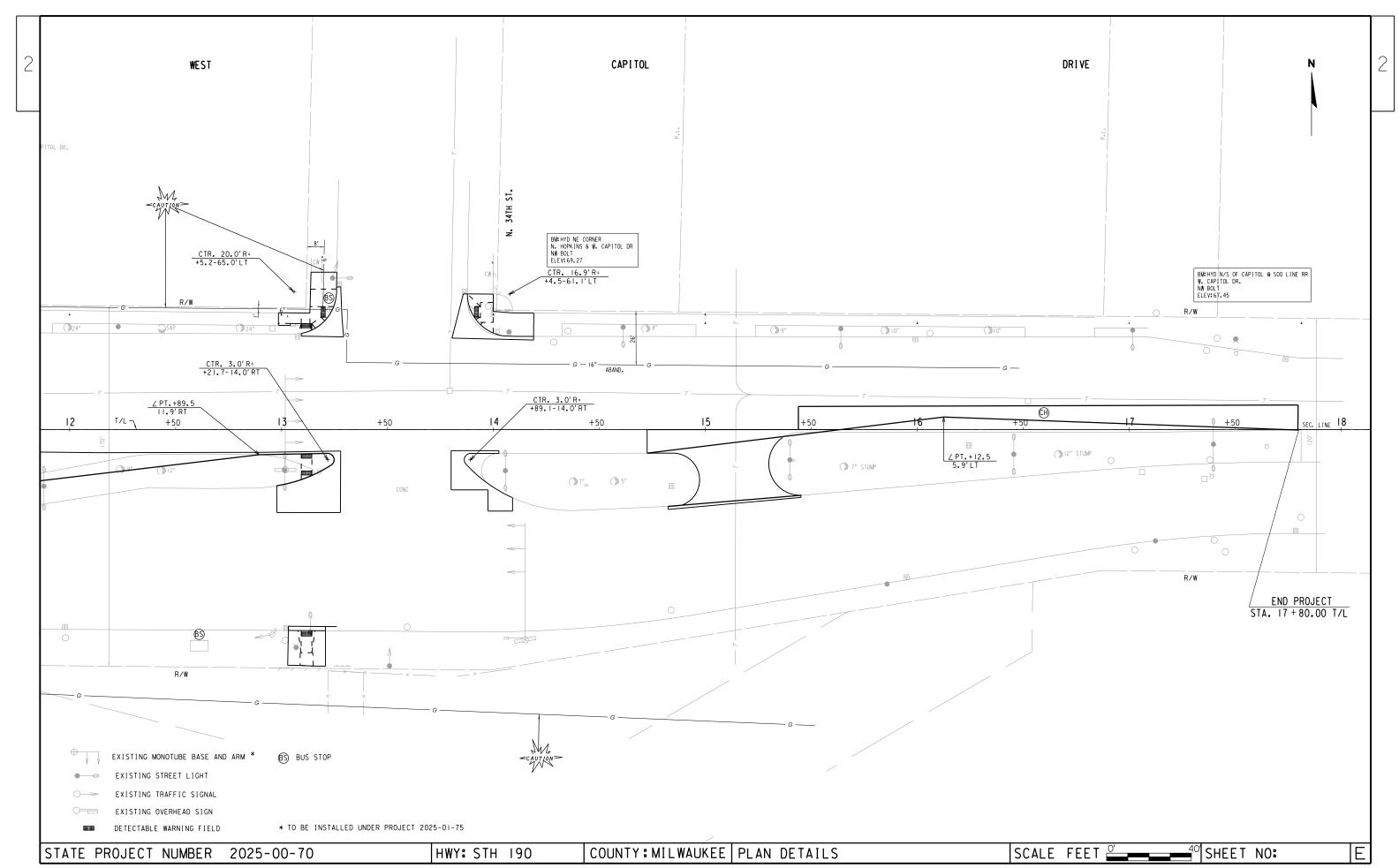


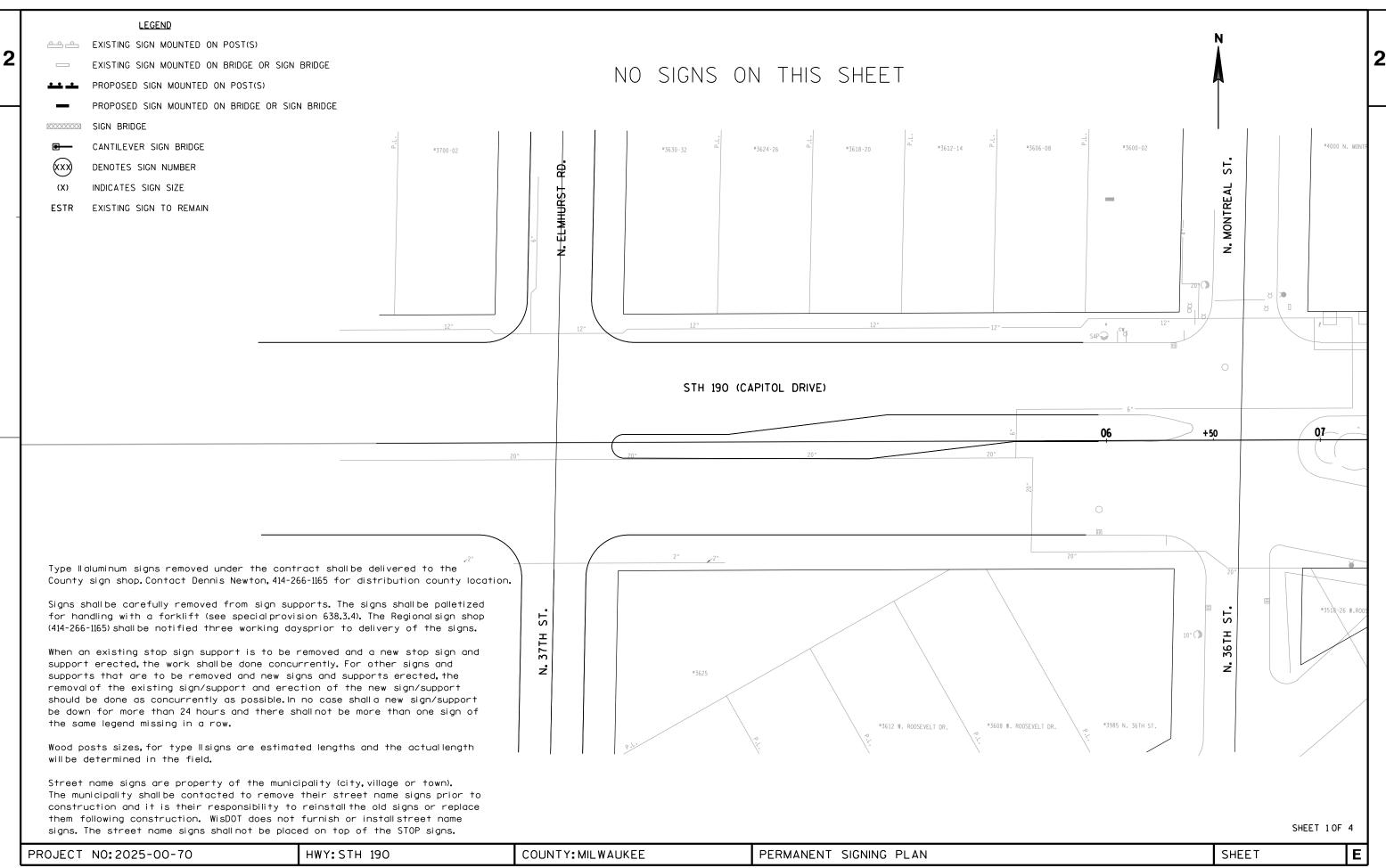












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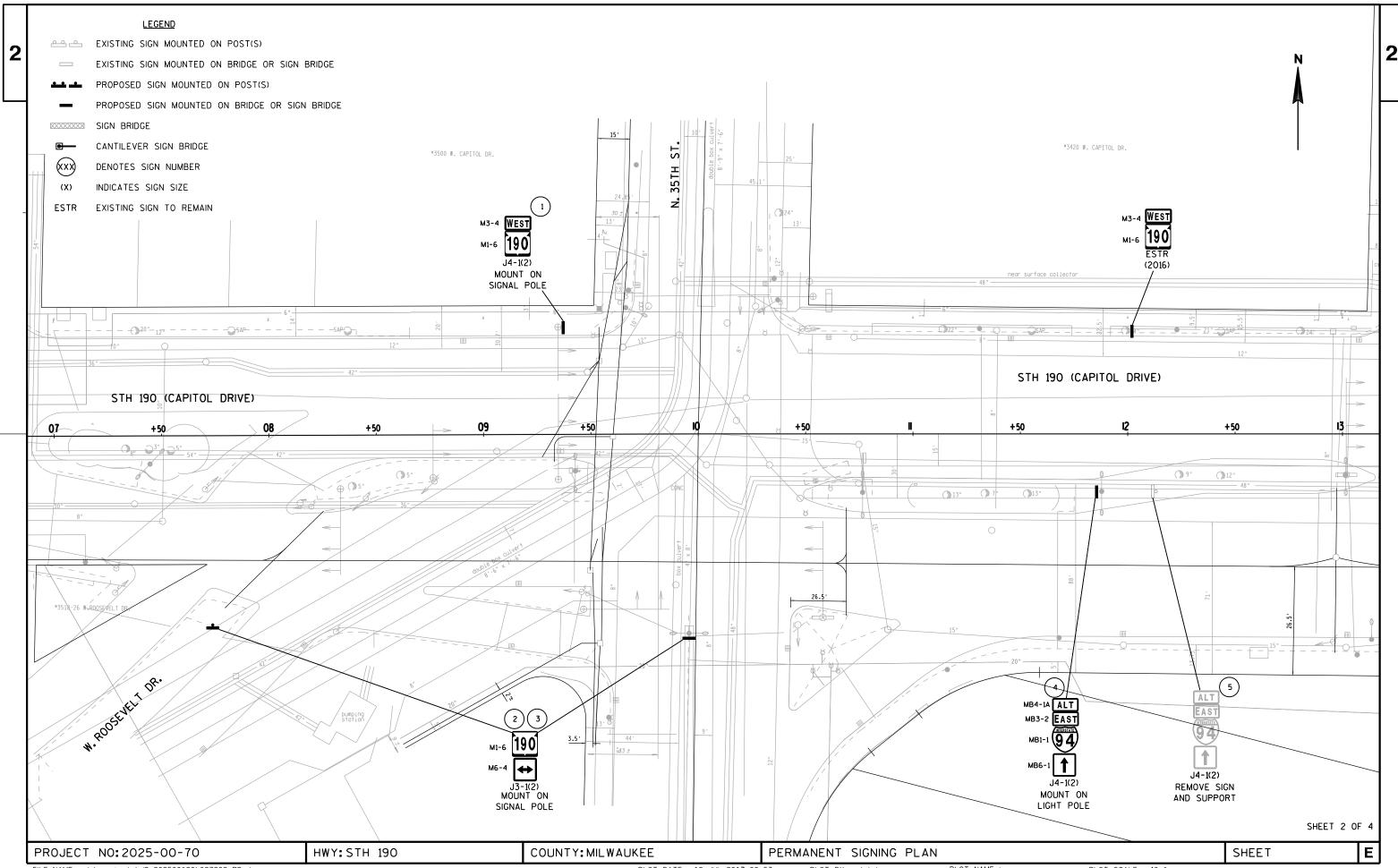
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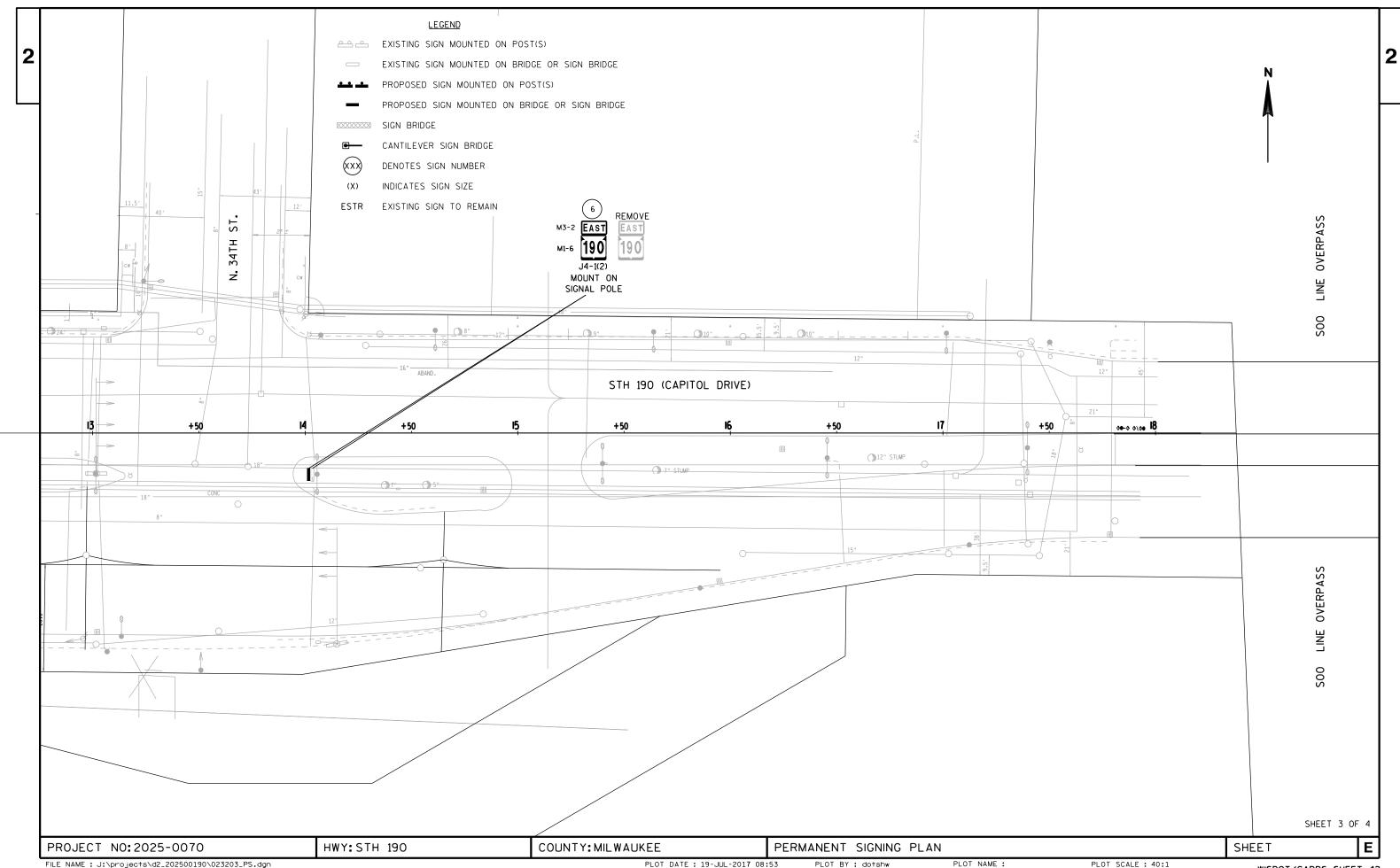
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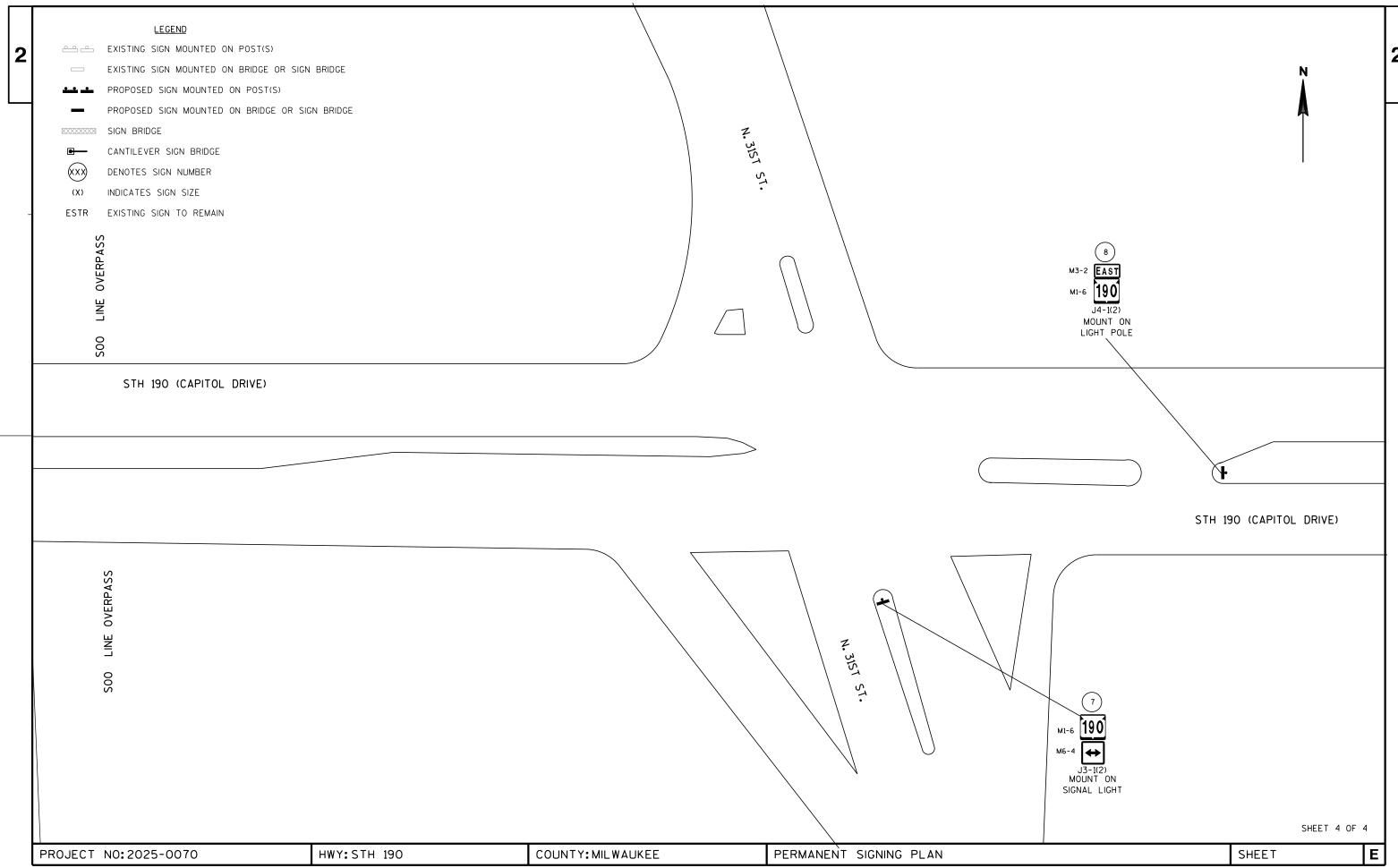
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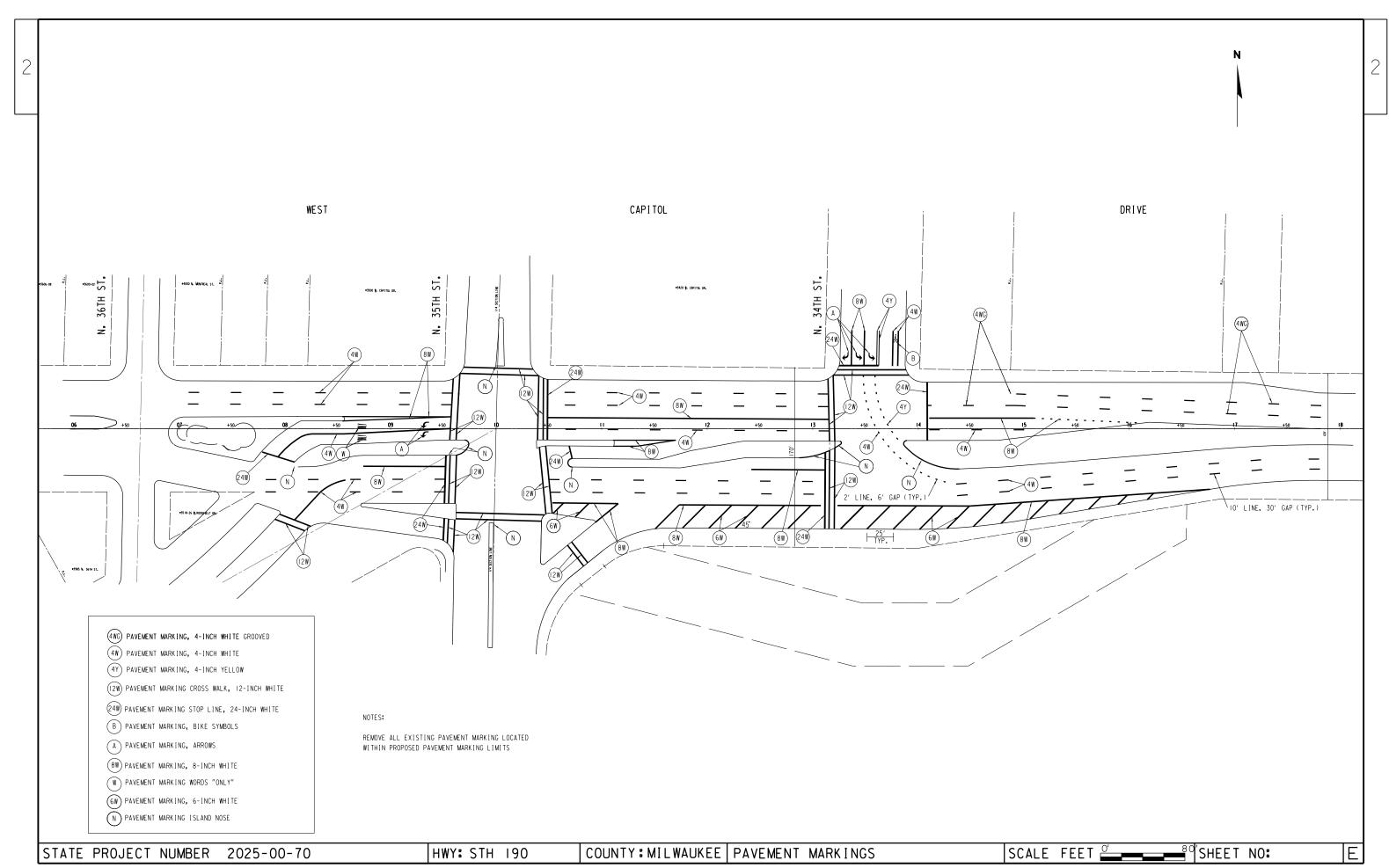
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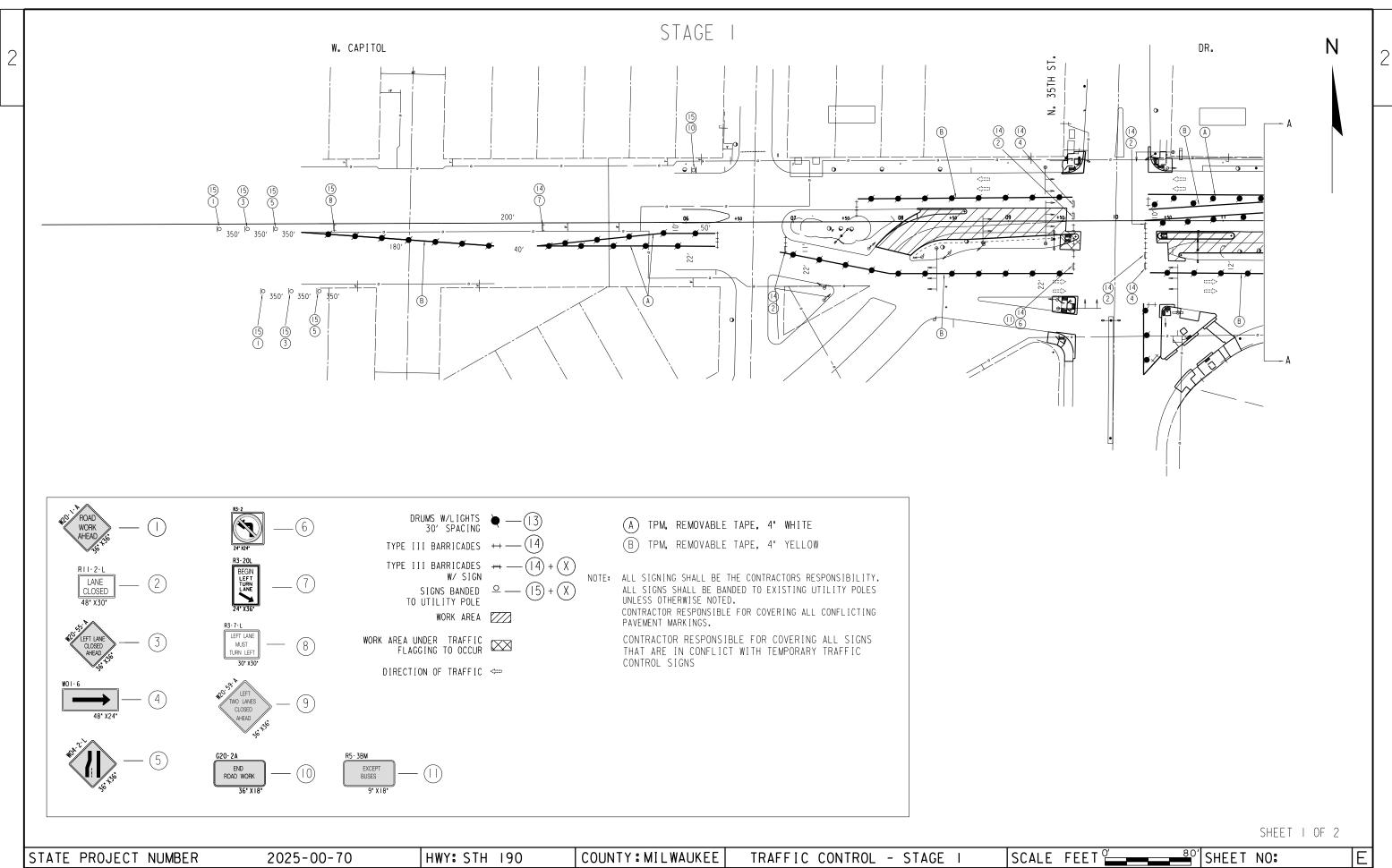
WISDOT/CADDS SHEET 42

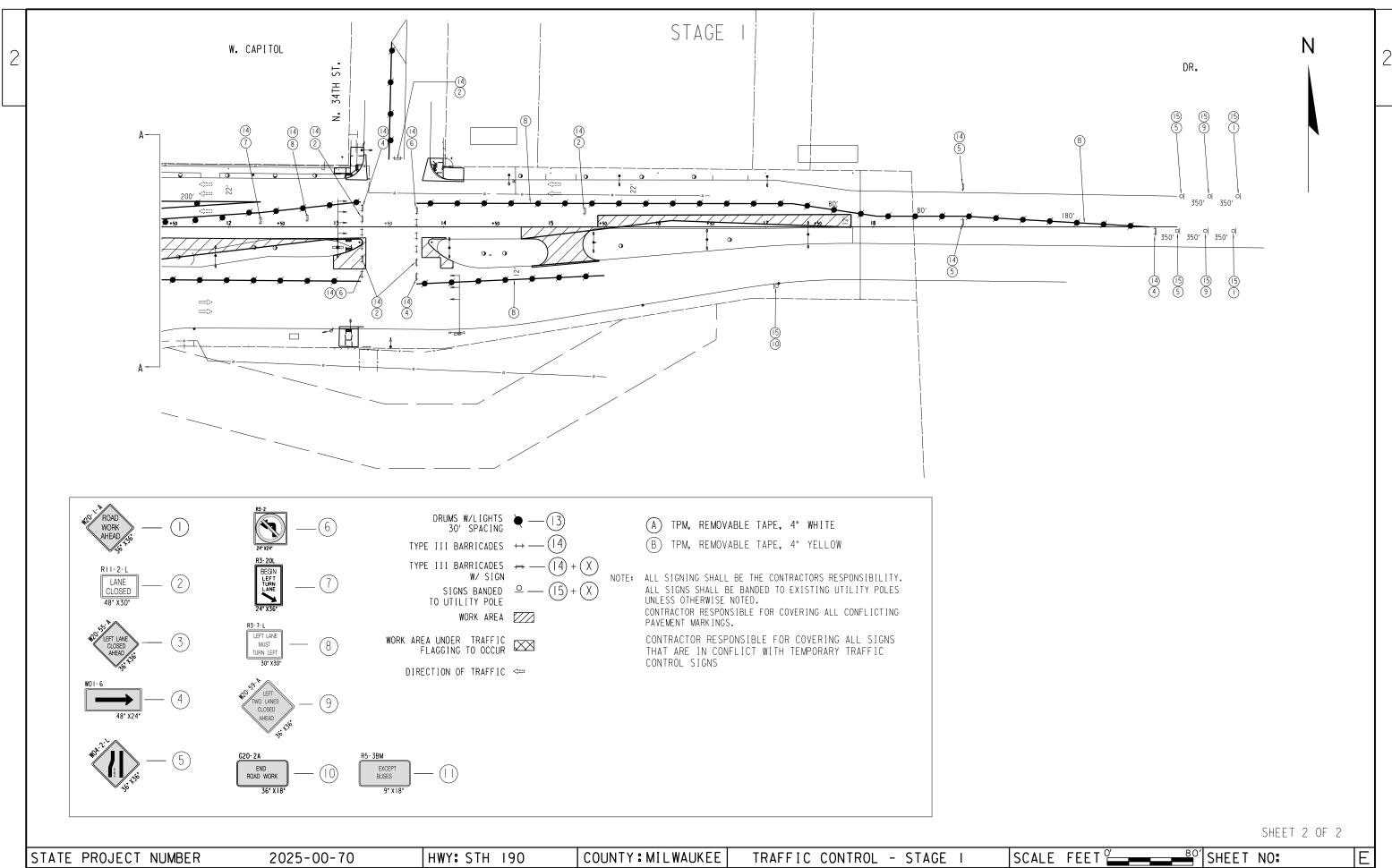


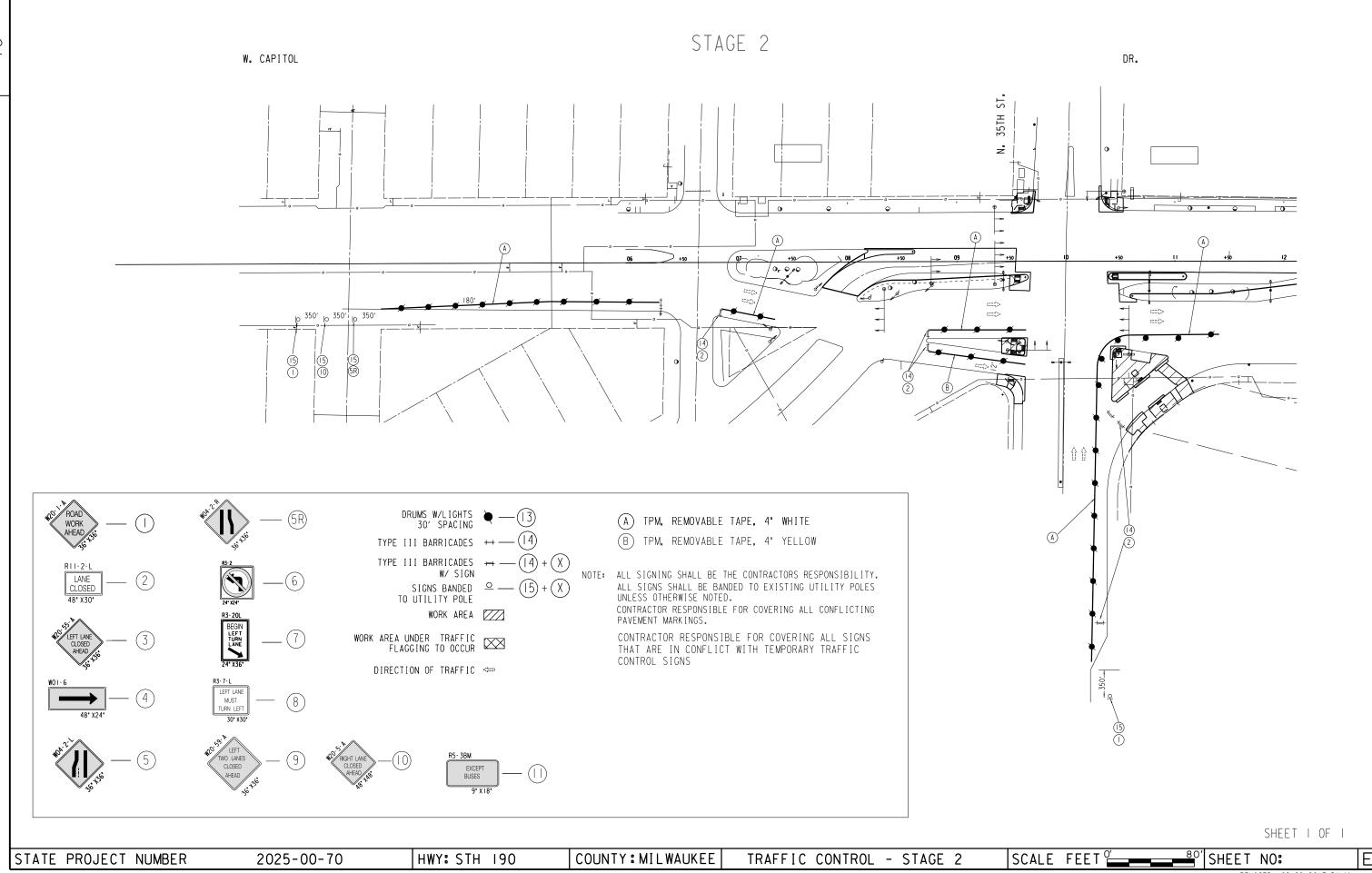












W CAPITOL DR INTERSECTION DETAIL

ALL PEDESTRIAN TRAFFIC CONTROL MUST BE PLACED PRIOR TO THE START OF ANY SIDEWALK WORK FOR EACH

ANY MID-BLOCK SIDEWALK REMOVALS MUST HAVE TEMPORARY ACCOMODATIONS PLACED IMMEDIATELY UPON REMOVAL. SEE SDD 15D30.

TRAFFIC CONTROL FOR CONSTRUCTION OF CURB RAMPS AND ADJOINING PAVEMENT SHALL BE PLACED PER FL-R SDD 15D 20-4 'TRAFFIC CONTROL SINGLE LANE CLOSURE NON-FREEWAY\EXPRESSWAY

TEMPORARY OR PERMANANT ACCOMODATIONS MUST BE PLACED AT ANY AREA OF SIDEWALK REMOVALS BEFORE ANOTHER AREA OF REMOVALS MAY BEGIN.

PEDESTRIAN ACCOMODATIONS MUST BE PROVIDED TO ALL RESIDENCES AND BUSINESSES USING EXISTING. NEWLY CONSTRUCTED OR TEMPORARY ACCOMODATIONS DURING ALL STAGES OF CONSTRUCTION,

A SIGNED PEDESTRIAN DETOUR TO ROUTE PEDESTRIAN TRAFFIC AROUND THE WORK ZONE IS SHOWN ON THE FOLLOWING CONSTRUCTION STAGING PEDESTRIAN RAMPS STREETS. FOR PEDESTRIANS WITH TRIPS STARTING OR ENDING INSIDE THE WORK ZONE, NO SIGNED DETOUR IS PLANNED. AREAS UNAVAILABLE TO PEDESTRIANS DURING CONSTRUCTION WILL BE SIGNED AND MARKED AS SHOWN IN THE 'CORNER SIDEWALK CLOSURE WITH NO TEMPORARY CROSSWALK' DETAIL.

#### STAGE 3

STAGE 3 WILL INCLUDE THE REMOVAL OF EXISTING SIDEWALK AND THE CONSTRUCTION OF PROPOSED SIDEWALK.

SEE THE PEDESTRIAN RAMP DETAILS FOR ADDITIONAL INFORMATION.

PEDESTRIAN RAMPS WILL BE RECONSTRUCTED DURING STAGE 3. TO ENSURE PEDESTRIAN ACCOMMODATIONS REMAIN AVAILABLE THE RAMPS HAVE BEEN DIVIDED INTO 3 GROUPS. EACH GROUP OF RAMPS MAY BE COMPLETED CONCURRENTLY BUT ALL RAMPS IN A GROUP MUST BE COMPLETE BEFORE STARTING WORK ON ANY OTHER RAMP.

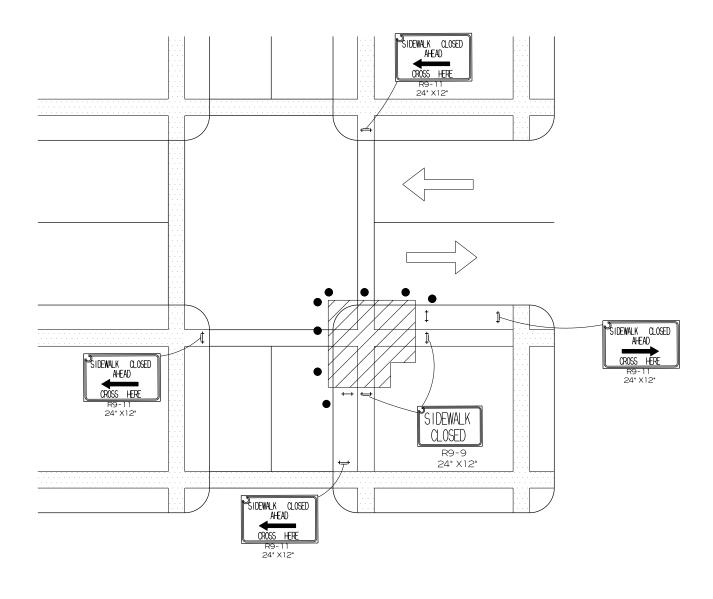
#### GROUP A

NORTHEAST CORNER OF W. CAPITOL DR. & N. 35TH ST. SOUTHWEST CORNER OF W. CAPITOL DR. & N. 34TH ST.

#### GROUP B

SOUTHWEST CORNER OF W. CAPITOL DR. & N. 35TH ST. NORTHEAST CORNER OF W. CAPITOL DR. & N. 34TH ST.

NORTHWEST CORNER OF W. CAPITOL DR. & N. 35TH ST. NORTHWEST CORNER OF W. CAPITOL DR. & N. 34TH ST.



WORK AREA

UNDER PEDESTRIAN TRAFFIC

TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)

DIRECTION OF TRAFFIC

● TRAFFIC CONTROL DRUM

SHEET I OF I

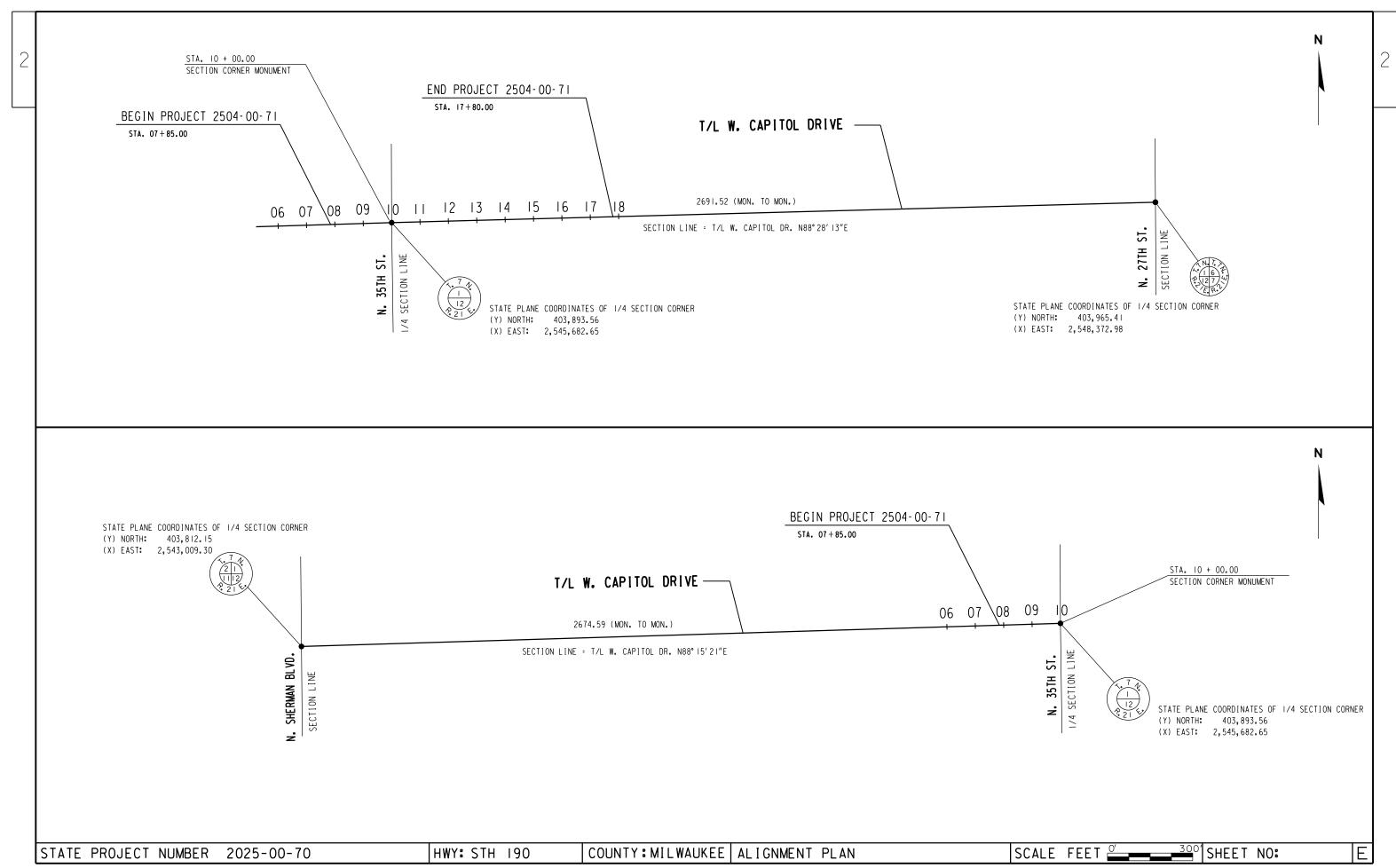
STATE PROJECT NUMBER 2025-00-70

HWY: STH 190

COUNTY: MILWAUKEE TRAFFIC CONTROL - STAGE 3

SCALE FEET

SHEET NO:



					2025-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	201.0120	Clearing	ID	64.000	64.000
0004	201.0220	Grubbing	ID	64.000	64.000
0006	204.0100	Removing Pavement	SY	1,221.800	1,221.800
8000	204.0150	Removing Curb & Gutter	LF	125.000	125.000
0010	204.0155	Removing Concrete Sidewalk	SY	478.900	478.900
0012	204.0220	Removing Inlets	EACH	1.000	1.000
0014	205.0100	Excavation Common	CY	520.800	520.800
0016	213.0100	Finishing Roadway (project) 01. 2025-00-70	EACH	1.000	1.000
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	594.500	594.500
0020	415.0090	Concrete Pavement 9-Inch	SY	1,340.100	1,340.100
0022	416.0610	Drilled Tie Bars	EACH	518.000	518.000
0024	416.0620	Drilled Dowel Bars	EACH	152.000	152.000
0026	601.0331	Concrete Curb & Gutter 31-Inch	LF	360.600	360.600
0028	602.0410	Concrete Sidewalk 5-Inch	SF	5,154.700	5,154.700
0030	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	220.000	220.000
0030	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-	LF	41.000	41.000
0032	000.0312	Inch	Li	41.000	41.000
0034	611.3225	Inlets 2x2.5-FT	EACH	1.000	1.000
0036	619.1000	Mobilization	EACH	1.000	1.000
0038	620.0300	Concrete Median Sloped Nose	SF	260.000	260.000
0040	625.0100	Topsoil	SY	424.700	424.700
0042	627.0200	Mulching	SY	45.000	45.000
0044	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0046	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0048	628.7005	Inlet Protection Type A	EACH	2.000	2.000
0050	628.7010	Inlet Protection Type B	EACH	2.000	2.000
0052	628.7015	Inlet Protection Type C	EACH	17.000	17.000
0054	630.0200	Seeding Temporary	LB	1.200	1.200
0056	631.1000	Sod Lawn	SY	424.700	424.700
0058	632.0101	Trees (species) (size) (root) 01. Cleveland Select Pear	EACH	3.000	3.000
	002.0101	3" Cal B&B	_, .0	0.000	0.000
0060	632.0201	Shrubs (species) (size) (root) 01. Tiger Eye Sumac #5	EACH	6.000	6.000
		CG			
0062	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	6.000	6.000
0064	637.2210	Signs Type II Reflective H	SF	50.000	50.000
0066	638.2602	Removing Signs Type II	EACH	4.000	4.000
0068	638.3000	Removing Small Sign Supports	EACH	1.000	1.000
0070	642.5201	Field Office Type C	EACH	1.000	1.000
0072	643.0300	Traffic Control Drums	DAY	5,870.000	5,870.000
0074	643.0410	Traffic Control Barricades Type II	DAY	620.000	620.000

# Estimate Of Quantities Page 3

					2025-00-70
Line	Item	Item Description	Unit	Total	Qty
0154	SPV.0060	Special 10. Manhole Cover Type 58A	EACH	1.000	1.000
0156	SPV.0060	Special 11. Inlet Cover Type 57	EACH	3.000	3.000
0158	SPV.0090	Special 01. Fieldstone Boulder Wall	LF	40.000	40.000
0160	SPV.0090	Special 02. Concrete Curb & Gutter Integral 19-Inch	LF	1,196.500	1,196.500
0162	SPV.0090	Special 03. Marking Stop Line Epoxy 24-Inch	LF	334.000	334.000

3	CLEARING AND GRUBBING  CAT 10 CAT 10 CLEARING GRUBBING 201.0120 201.0220 I.D. I.D.  PROJECT TOTAL 64 64	REMOVII PAVEME 204.010 SY  PROJECT TOTAL 1,221.8	REMOVI NG CURB NT GUTTE 00 204.015 	NG I & () R 60 ==	CAT 10 REMOVING CONCRETE SIDEWALK 204.0155 SY 478.9				CAT 10 XCAVATION COMMON 205.0100 CY 520.8
	FINISHING ROADWAY  CAT 10  FINISHING ROADWAY  PROJECT 2025-00-70  213.0100  EACH  PROJECT TOTAL  1	E AGG D 1-1/ 30	BASE REGATE CC ENSE PA '4 INCH S 5.0120 4	CAT 10 NCRETE /EMENT -INCH 5.0090 SY ,340.1	CONCRETE ITE  CAT 10  CONCRETE  CURB &  GUTTER  19-INCH  SPV.0090.02  LF  1,196.5	CAT 10 CONCRETE CURB & GUTTER 31-INCH 601.0331 LF 360.6	CAT 10  CONCRETE WALK 5-INCH 602.0410 SF  5,154.7	CAT 10 CURB RAMP DWF NATURAL PATINA 602.0515 SF	CAT 10 CONCRETE MEDIAN SLOPE NOSE 620.0300 SF
	TIE BARS AND DOWEL BARS  CAT 10 CAT 10 DRILLED DRILLED TIE DOWEL BARS BARS 416.0610 416.0620 EACH EACH  PROJECT TOTAL 518 152	PROJECT TO	LIZATION  CAT  MOBILIZ  619.11  EAC  TAL  1	ATION 100			PROJE	FIELD OF	CAT 10 FIELD OFFICE TYPE C 642.5201 EACH

3

FILE NAME : \_\_\_\_\_ PLOT DATE : \_\_\_\_ PLOT BY : \_\_\_\_ PLOT NAME : \_\_\_\_ PLOT SCALE : 1:1

PROJECT TOTAL	CAT 10  TOPSOIL 625.0100 SY  424.7	MULCHIN G	CAT 10 CAT EEDING SC TEMP LAV 330.0200 631. LB S	NN 1000 <u>Y</u>	PROJECT TO		CAT 10 BILIZATIONS EROSION CONTROL 628.1905 EACH	MC E	CAT 10 DBILIZATIONS MERGENCY SION CONTRO 628.1910 EACH		PROJECT T	INLET PROCE CAT 10 TYPE A 628.7005 EACH	CAT 10 CAT 10 TYPE B TYPE C
			SIGNATURI	E BED ITEMS								SURVEILLANCE A	ND CARE CYCLES
LOCATION	CAT 10 632.0101.01 CLEVELAND SELECT PEAR 3" CAL B&B EACH*	CAT 10 632.0201.01 TIGER EYE SUMAC #5 CG EACH	CAT 10 SPV.0060.04 CATMINT BLUE WONDER #1 CG EACH	CAT 10 SPV.0060.05 KARL FORESTER GRASS #1 CG EACH	CAT 10 SPV.0060.06 DAY LILIES #1 CG EACH	CAT 10 SPV.0060. ZAGREE COREOPS #1 CG EACH	07 SPV.00	0.60.08 TURE ED	CAT 10 SPV.0090.0 FIELDSTON BOULDER WALL L.F.	IE			CAT 10 632.9101 PLANTING SURVEILLANCE & CARE CYCLES EACH
SIGNATURE BED STA 15+55 TO STA 16+15	3	6	48	72	48	24	1		40			PROJECT	TOTAL 6
					TREI	E & PLANT CHA	RT						
COMMON NAME		SCIENTIFIC NA	ME	SIZE PLANTED	ROOT ZONE MODE HEIG	BAL (MIN. S HT DIA. DE	IZE) (MIN	IOLE N. SIZE) DEPTH	BRACE OR GUY	FERT. UNITS REQ'D	RODENT PROTECTION REQ'D	MULCH RING DIAMETER	REMARKS
CLEVELAND SELECT PEAR	PYRUS CAI	LLERYANA "CLEV	ELAND SELECT"	3" CAL.	B&B	24"	19" 48"	24"	BRACE	4 EACH	NONE	68"	SPECIMEN QUALITY
DAY LILIES				1 GAL.	CG								SPECIMEN QUALITY
CATMINT BLUE WONDER				1 GAL.	CG								SPECIMEN QUALITY
ZAGREB COREOPSIS				1 GAL.	CG								SPECIMEN QUALITY
				5 GAL.	CG								SPECIMEN QUALITY
TIGERS EYE SUMAC													

3

FILE NAME : \_\_\_\_\_ PLOT DATE : \_\_\_\_ PLOT BY : \_\_\_\_ PLOT NAME : \_\_\_\_ PLOT SCALE : 1:1

3

3

# STORM SEWER ITEMS

STRUCTURE	LOCA	TION	COVER	STRUCT.	LID		PIPE SIZE	LENGTH	RISER	INVER	T ELEV.	SLOPE	
NUMBER	STATION	OFFSET	ELEV.	TYPE	TYPE	CONNECTION STRUCTURE	(IN)	(FT)	LENGTH	INLET	OUTLET	FT/FT	REMARKS
101	8+58.9	6' LT	67.90	45A	57	Direct Connect	12	23	4	63.80	62.85	0.041	Direct Connect to Existing 42" Sewer at 29' LT; Protect Telephone
104	9+61	123' RT	66.60	45A	57	Existing Storm Sewer	12	5					
102	10+70	17' RT	68.20	2' x 2.5' Inlet	57	Storm MH at 10+75, 5' RT	12	13		65.00	64.00	0.077	54" WM is Below Inlet, Protect & Support Electric and WM
103	10+75	5' RT	68.14		58A								Adjusting Manhole Paid for with New Cover Bid Item

# STORM SEWER SUMMARY

ΙT	EΜ
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NUMBER	ITEM	QUANTITY	
204.0220	REMOVING INLETS	1	EACH
608.0312	SSPR CONCRETE CLASS III 12-INCH	41	LF
611.3225	INLETS 2x2.5-FT	1	EACH
SPV.0060.09	CATCH BASINS TYPE 45A	2	EACH
SPV.0060.10	MANHOLE COVER TYPE 58A	1	EACH
SPV.0060.11	INLET COVERS TYPE 57	3	EACH

PROJECT NO: 2025-00-70 HWY: STH 190 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET: E

FILE NAME : \_\_\_\_\_ PLOT DATE : \_\_\_\_ PLOT BY : \_\_\_\_ PLOT NAME : \_\_\_\_ PLOT SCALE : 1:1

TYPE II PERMANENT SIGNING - 2025-00-70 STH 190

						637.2210	638.2602	638.3000	
						007.2210	000.2002	000.000	
						SIGNS		REMOVING	
	SIGN			SIGN		TYPE II	REMOVING	SMALL	
SIGN	CODE	SIGN		SIZE		REFLC	SIGNS	SIGN	
NO.	& SIZE	MESSAGE	W	X	Н	H	TYPE II	SUPPORTS	
INO.	Q OIZE	WESSAGE		X		[SF]	[EA]		REMARKS / NEW SIGN LOCATION
			[IN.]	^	[IN.]	[SF]	[[]	[ĽA]	REWARKS/NEW SIGN LOCATION
1	J4-1(2)		24	Х	36	6.000	1		MOUNT ON SIGNAL POLE
	M3-4		24	X	12	0.000			WOON TON SIGNAL TOLL
	M1-6	STH 190	24		24				_
2	J3-1(2)	31H 190	24	X X	33	5.500			MOUNT ON SIGNAL POLE
	M1-6					3.500			
		STH 190	24	X	12				-
	M6-4		21	Х	21	7.500			MOUNT ON GIONAL POLE
3	J3-1(2)		24	Х	45	7.500			MOUNT ON SIGNAL POLE
	M1-6	STH 190	24	Х	24				-
	M6-4		21	Х	21				
4	J4-1(2)		24	Х	69	11.500			MOUNT ON LIGHT POLE
	MB4-1		24	Х	12				
	MB3-2		24	Х	12				
	MB1-1	IH 94	24	Х	24				
	MB6-1	<u></u>	21	Х	21				
	J4-1(2)			Х			1	1	
6	J4-1(2)		24	Х	36	6.000	1		MOUNT ON SIGNAL POLE
	M3-2		24	Х	12				
	M1-6	STH 190	24	Х	24				
7	J3-1(2)		24	Х	45	7.500			MOUNT ABOVE SIGNAL LIGHT
	M1-6	STH 190	24	х	24				
	M6-4		21	х	21				
8	J4-1(2)		24	Х	36	6.000	1		MOUNT ON LIGHT POLE
	M3-2		24	х	12				-
	M1-6	STH 190	24	х	24				-
	TOTALS					50.000	4	1	

E PROJECT NO:2025-00-70 HWY: STH 190 COUNTY: MILWAUKEE PERMANENT SIGNING PLAN SHEET:

FILE NAME : N:\SPO\Operations\Signing\Miscellaneous Quantities\2025-00-70

PLOT DATE : \_7/20/2017

PLOT BY : DONALD STEEL

PLOT NAME : D.S.

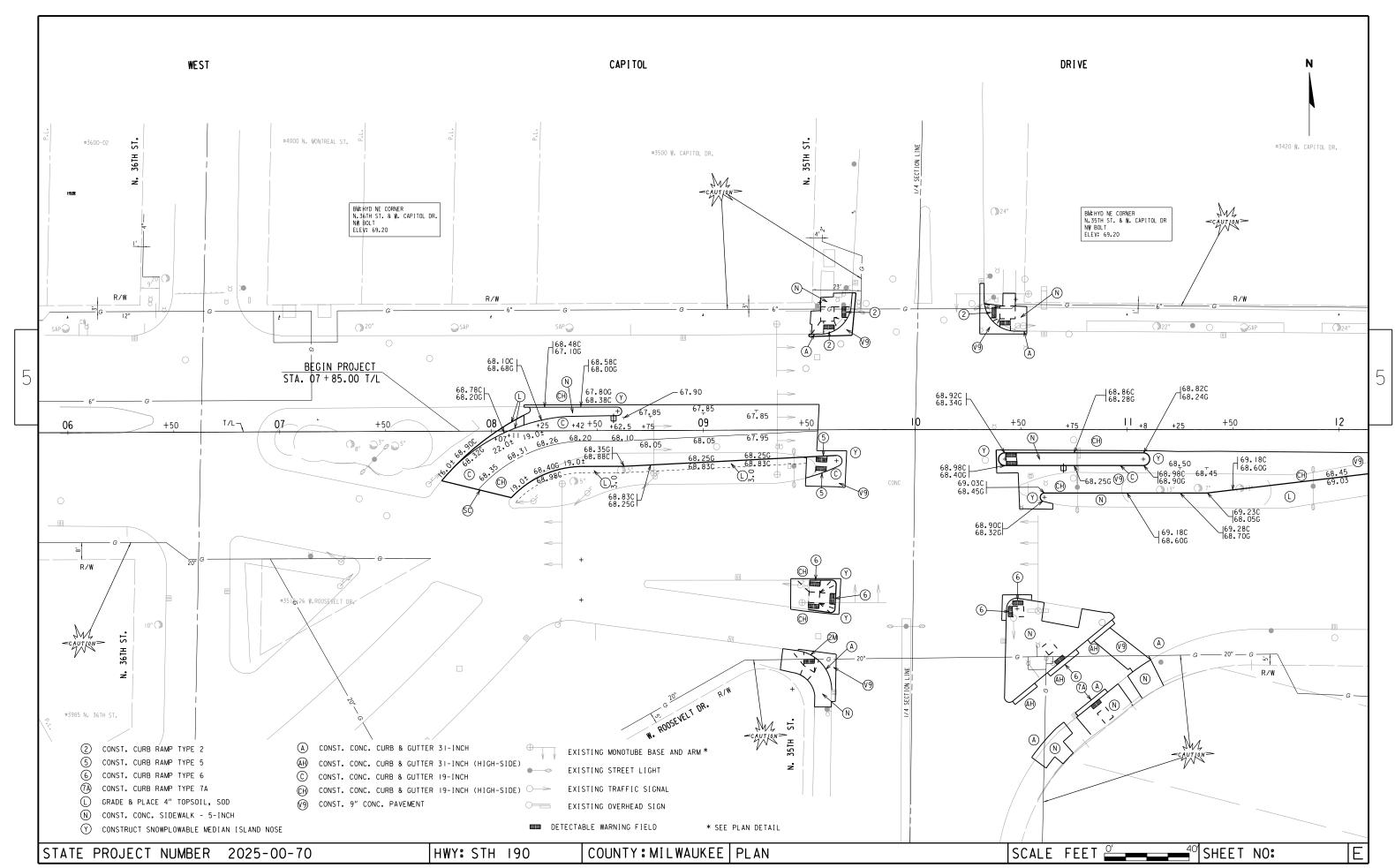
PLOT SCALE : 1:1

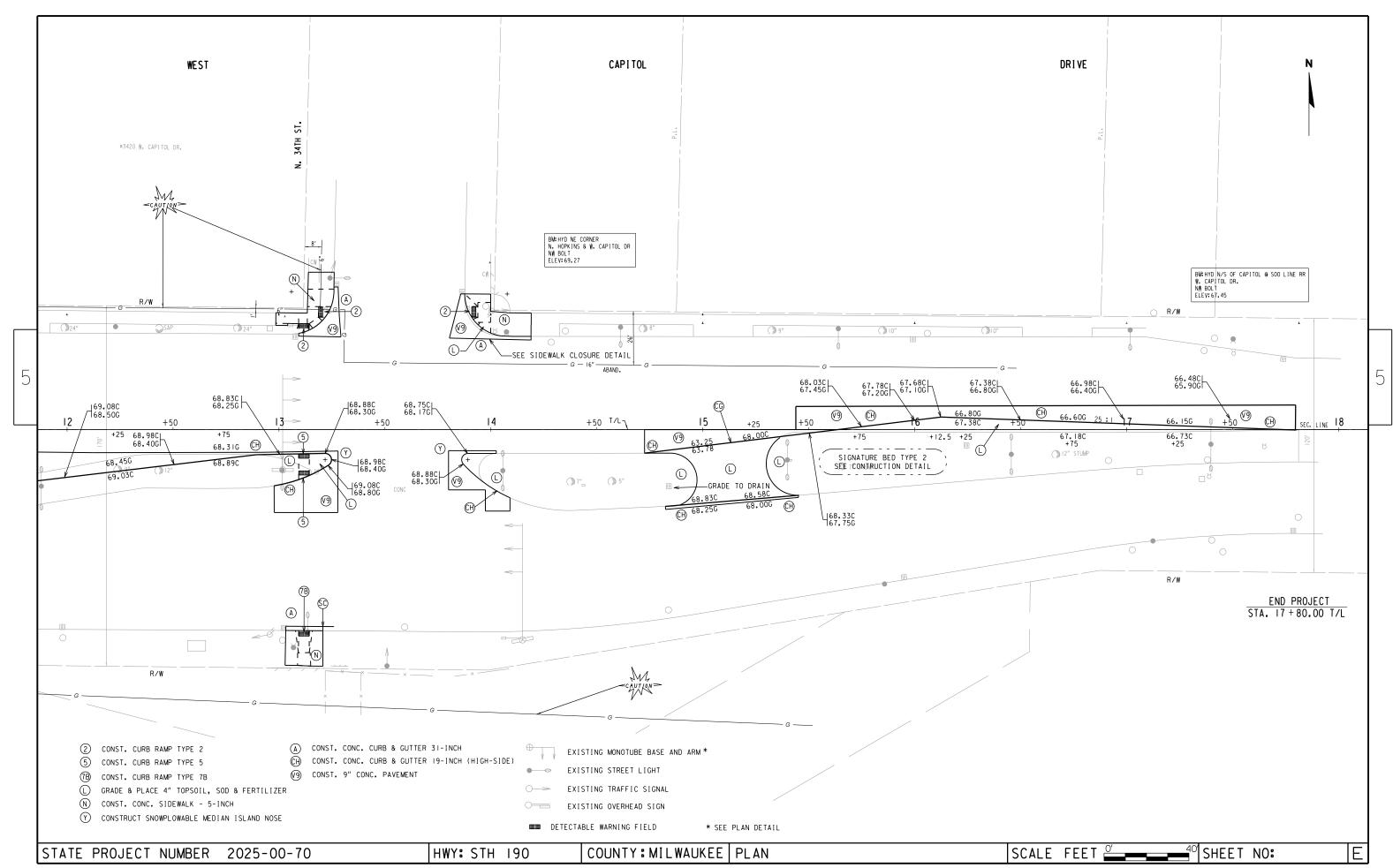
TRAFFIC CONTROL ITEMS
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TRAFFIC CONT	<sup>-</sup> ROL					.0300	TRA	.0410 AFFIC	TRA	.0420 AFFIC	TRA	0705 FFIC	643.		643.0 TRAF	FIC
	CAT 10	CATEGOR	Y 10	STAGE DURATION		CONTROL	BARR	ITROL ICADES PE II	BARRI	ITROL ICADES PE III	WARNING	TROL G LIGHTS PE A	TRAFFIC ( WARNING TYP	G LIGHTS	CONT	
	TRAFFIC CONTROL	STAGE	LOCATION	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	DAYS	NO.	D
	643.5000 EACH	1	STH 190 MEDIAN WORK	45	93	4,185	0	0	38	1,710	76	3,420	93	4,185	37	1
PROJECT TOTAL	1		UNDISTRIBUTED MEDIAN AND INTERSECTIONS, PEDESTRIAN ACCESS		5	225	4	180	4	180	8	360	5	225	2	
			SUBTOTA	AL		4,410		180		1,890	_	3,780		4,410		1
		2	STH 190 & N 35TH ISLANDS	35	31	1,085	0	0	6	210	12	420	31	1,085	10	
			UNDISTRIBUTED MEDIAN AND INTERSECTIONS, PEDESTRIAN ACCESS		3	105	4	140	2	70	4	140	3	105	2	
			SUBTOTA	AL.		1,190		140		280		560		1,190		
		3	STH 190 CURB RAMPS; SIDEWALK	15	16	240	16	240	0	0	0	0	16	240	10	
TRAFFIC CONTRO			UNDISTRIBUTED MEDIAN AND INTERSECTIONS, PEDESTRIAN ACCESS		2	30	4	60	0	0	0	0	2	30	2	
TEMPORARY PAVEME	NT MARKING		SUBTOTA	AL .		270		300		0		0		270		
6	EGORY 10 49.0150 TPM			PROJECT TO	TAL	5,870		620		2,170		4,340		5,870		2
	MOVABLE TAPE 4-INCH YELLOW							PED	ESTRIAN	N ACCON	MODATIO	ON ITEMS	;			
STAGE LF	LF	TR	AFFIC CONTROL COVERING SIGN	NS				TEMPORA	RY	TEMPO	RARY	TEMPO	DRARY	TEMP	ORARY	
1 560	2015		CAT 10					PEDESTRI	AN	PEDES	TRIAN	PEDES	STRIAN	CL	JRB	
2 0	900		TRAFFIC CONTROL	_	CATI	EGORY 10		SURFAC		SURF			FACE	RA	MP	
2 0	300		COVERING SIGNS					ASPHAL <sup>-</sup> 644.1410.		PLYW0 644.14		PL/ 644.1	ATE 420.5	644.4	601.S	
3 0	0		TYPE II 643.0920		S	ΓAGE		644.1410. SF	J	644.14 SF			430.S F		ют.5 <u>СН</u>	_
560	2,915	LOC	CATION EACH	_		1		0		0		10			0	
			H STREET 2	_		2		300		20	)	(	)		1	
PROJECT TOTALS	3,475	PR	OJECT TOTAL 2			3		150		240	0	(	)	1	2	_
					PRO	JECT TOTAL	5	450		260	0	10	00	1	3	
ECT NO: 2025-00-70	HWY: S	 STH 190	COUNTY: MILWA	UKEE	М	SCELLANE	OUS QUA	ANTITIES						SHEET:		
:				PLOT DATE :	1	PLOT BY :			PLOT NAME : _		PI O	T SCALE : 1:1				

			PAVEM	MENT MARKING				SA	AWING PAVEMENT	
	CAT 10 MARKING LINE EPOXY 4-INCH 646.1020 LF	CAT 10 MARKING GROOVED WET REF EPOXY 4-INCH 646.1040 LF	CAT 10 MARKING LINE EPOXY 8-INCH 646.3020 LF	CAT 10  MARKING  ARROW  EPOXY  646.5020  EACH	CAT 10  MARKING  WORD  EPOXY 646.5120  EACH	CAT 10  MARKING SYMBOL EPOXY 646.5220 EACH		PROJE	CAT SAW CONC 690.0 L CT TOTAL 1,4	/ING RETE D250 F
ROJECT TOTAL	1,123	663	1,576	5	2	1				
	CAT 10 MARKING DIAGONAL EPOXY 6-INCH 646.7020 LF	CAT 10 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH 646.7420 LF	CAT 10 MARKING ISLAND NOSE EPOXY 646.8220 EACH	CAT 10 MARKING REMOVAL LINE WATER BLASTING 4-INCH 646.9010 LF	CAT 10 MARKING REMOVAL LINE WATER BLASTING WIDE 646.9210 LF	CAT 10 MARKING REMOVAL SPECIAL MARKING WATER BLASTING 646.9310 EACH	CAT 10 MARKING STOP LINE EPOXY 24-INCH SPV.0090.03 LF	INCE	INC STI CO PA' 71	CAT 10 CENTIVE RENGTH NCRETE VEMENT 15.0415 DOL
ROJECT TOTAL	516.0	2,688	7	2157	1,475	8	334	PROJECT TOTAL		2010
		CONS	STRUCTION ST	TAKING				ADJUSTING WA	TER BOXES AND MA	NHOLES
		STAKING STORM SEWER	CAT 10 STAKING CURB & GUTTER 650.5500 LF	CAT 10 STAKING SUPPLEMENTAL CONTROL PROJECT 2025-00- 650.9910 EACH	CURB	IG B D D0		<u>LOCATION</u>	CAT 20 ADJUSTING WATER BOXES SPV.0060.02 EACH	CAT 20 ADJUSTING WATER MANHOLES SPV.0060.03 EACH
PROJECT	TOTAL	3	1,557	1	16			PROJECT TOTAL	15	2

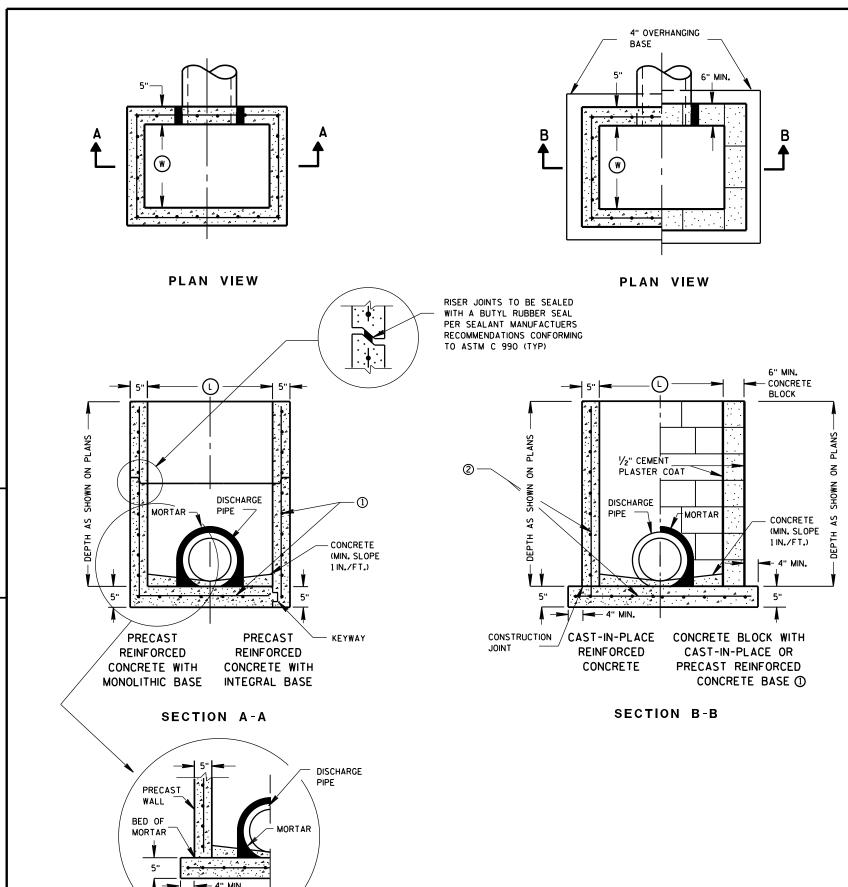
FILE NAME : \_\_\_\_\_ PLOT DATE : \_\_\_\_ PLOT BY : \_\_\_\_ PLOT NAME : \_\_\_\_ PLOT SCALE : 1:1





# Standard Detail Drawing List

08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D05-19A	CURB RAMPS TYPES 1 AND 1-A
08D05-19B	CURB RAMPS TYPES 2 AND 3
08D05-19C	CURB RAMPS TYPES 4A AND 4A1
08D05-19D	CURB RAMPS TYPE 4B AND 4B1
08D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-19F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-19G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D16-10	CONCRETE GUTTER, CURB AND GUTTER AND PAVEMENT TIES
08E10-02	INLET PROTECTION TYPE A, B, C AND D
11B02-02	CONCRETE MEDI AN NOSE
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
13C18-05A	CONCRETE PAVEMENT JOINTING
13C18-05B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-05C	CONCRETE PAVEMENT JOINT TYPES
13C18-05D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
14A02-01	TREE PLANTING DETAIL
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-14A	PAVEMENT MARKING SYMBOLS
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C07-14E	PAVEMENT MARKING FOR BIKE LANES
15C08-18A	LONGITUDINAL MARKING (MAINLINE)
15C08-18B	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-04	MEDIAN ISLAND MARKING
15C29-05A	BICYCLE LANE MARKING
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D21-04	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D30-03A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-03B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-03C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



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

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

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

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

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

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

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

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

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.

OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

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

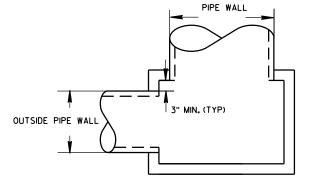
- ① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- ② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

#### INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	Т	٧	WM
	WIDTH (V) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	х	х				Х		х	
2X2.5-FT	2	2.5			Х			Х	Х	Х	Х
2X3-FT	2	3					Х				
2.5X3-FT	2.5	3				Х					

#### PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER							
INLET SIZE	WIDTH (IN)	LENGTH (IN)						
2X2-FT	12	12						
2X2.5-FT	12	18						
2X3-FT	12	24						
2.5X3-FT	18	24						



DETAIL "A"

OUTSIDE

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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APPROVED

Sept., 2016

DATE

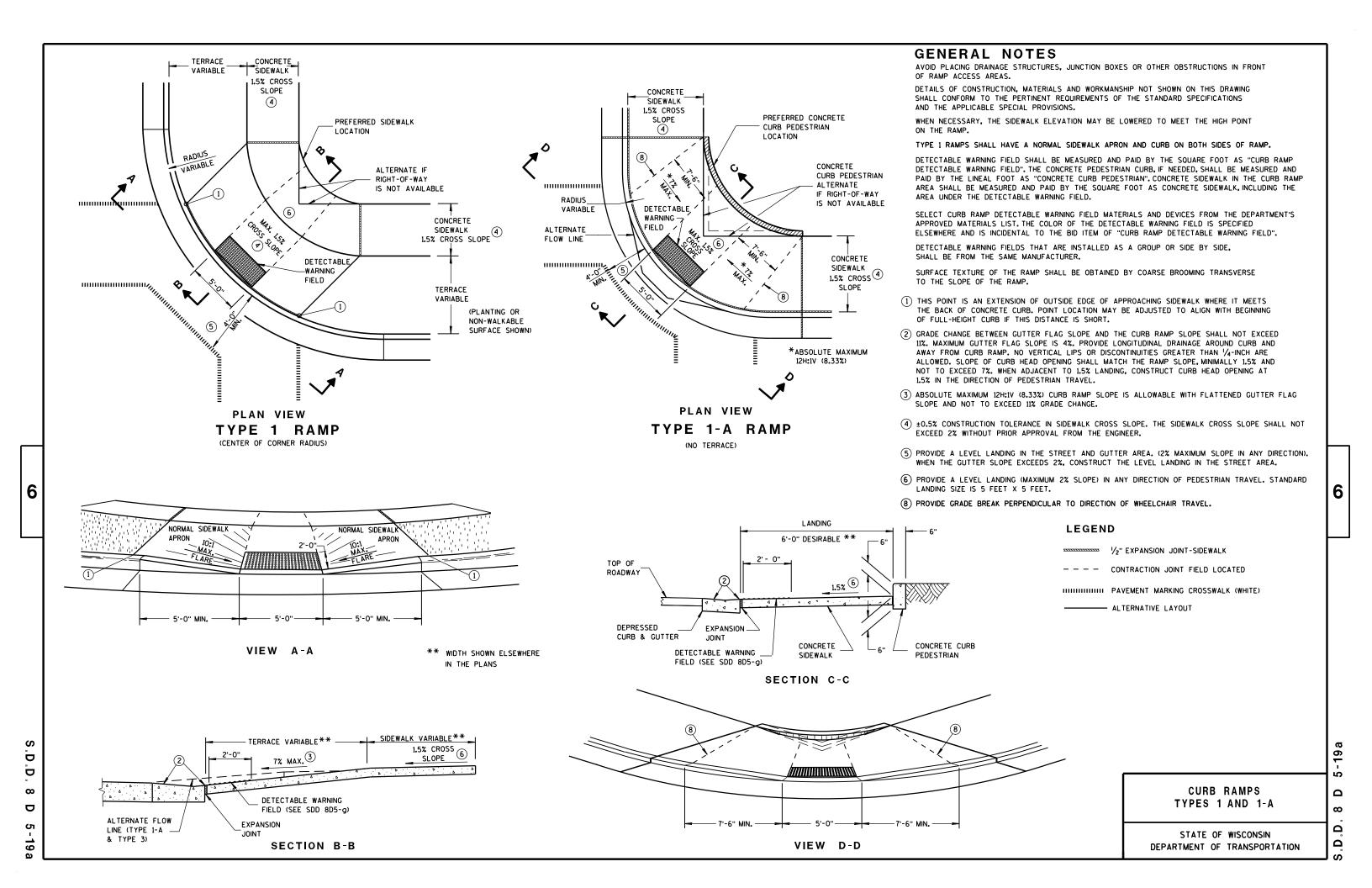
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

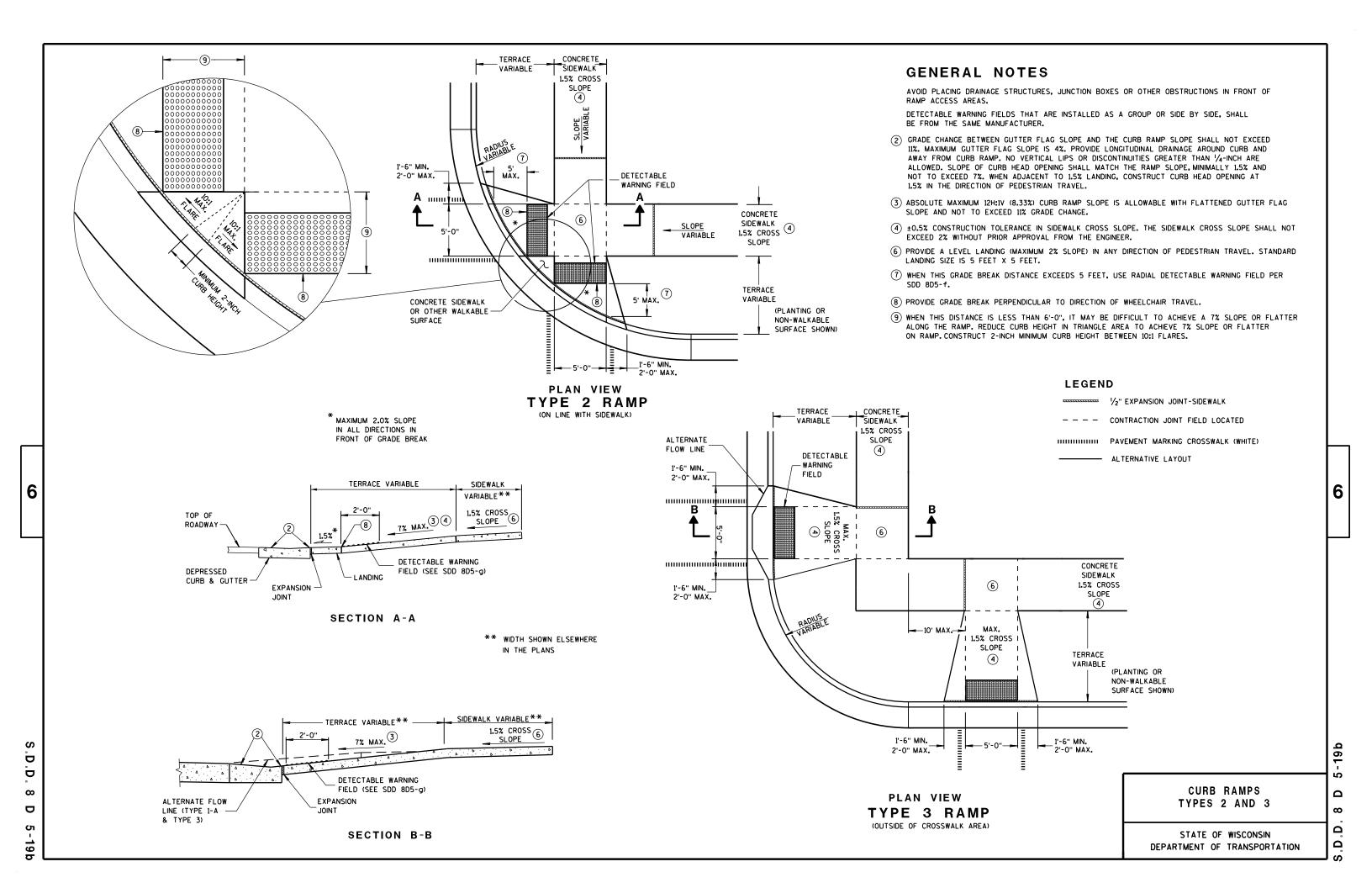
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

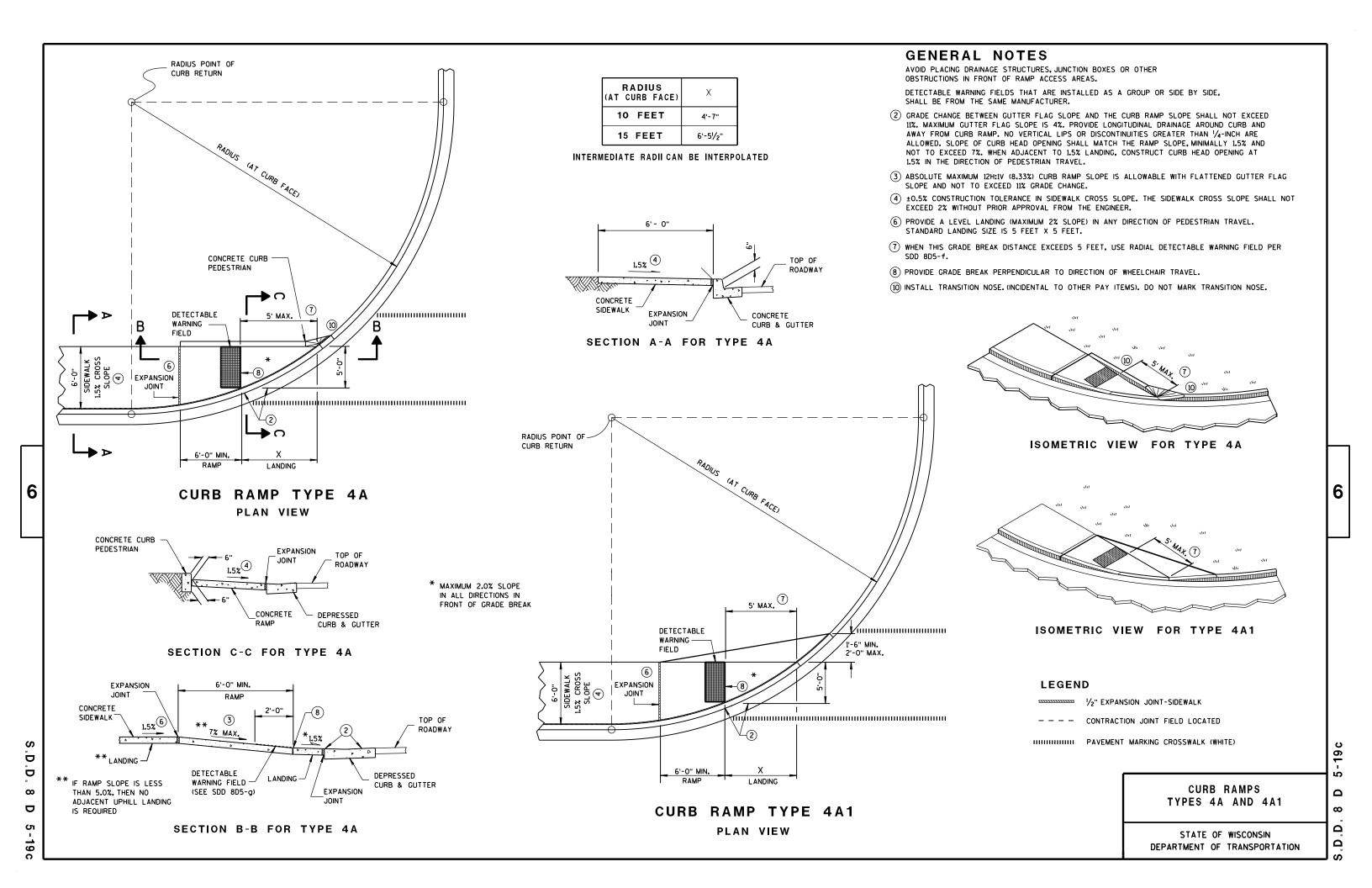
S.D.D. 8 C

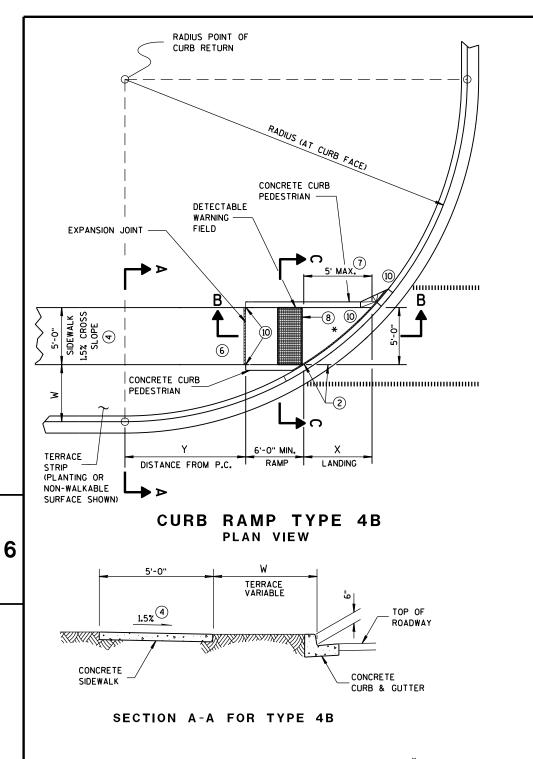
SEPARATE PRECAST REINFORCED

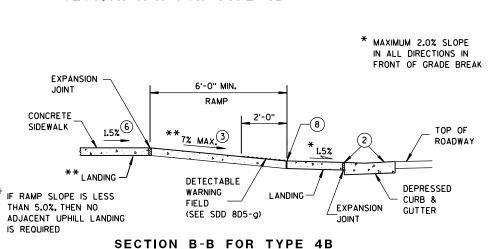
**CONCRETE BASE OPTION** 











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RADIUS	W = 3' - 0"		W = 4' - Ø"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9'-0"		W = 10' - 0"	
(AT CURB FACE)	Х	Y	Х	Y	Х	Y	X	Y	Х	Y	Х	Y	Х	Y	Х	Y
10 FEET	2'-101/4"	0'-5"	2'-1"	1'-41/2"	1'-5"	2'-1"	0'-10"	2'-71/2"	0'-31/4"	3'-01/4"						
15 FEET	4'-6¾"	2'-13/4"	3'-9"	3'-51/4"	3'-1'/4"	4'-6"	2'-6¾"	5'-41/2"	2'-1"	6'-1"	1'-8"	6'-81/2"	1'-31/4"	7'-21/2"	0'-10¾"	7'-71/4"
20 FEET	5'-9¾"	3'-61/2"	4'-11'/2"	5'-13/4"	4'-3'/4"	6'-51/2"	3'-8¾"	7'-7"	3'-3"	8'-61/2"	2'-10"	9'-41/2"	2'-51/2"	10'-1'/4"	2'-11/4"	10'-9"
30 FEET			6'-9'/4"	7'-11'/4"	6'-0'/4"	9'-8"	5'-5"	11'-1¾''	4'-10¾"	12'-5¾"	4'-51/2"	13'-7¾"	4'-0¾"	14'-81/2"	3'-81/2"	15'-8'/4"
40 FEET									6'-1¾"	15'-81/2"	5'-8"	17'-2"	5'-3"	18'-5¾"	4'-10¾"	19'-8'/4"
50 FEET															5'-10'/4"	23'-2"

# **GENERAL NOTES**

5'-0" RAMP

VARIES

0 TO 6"

<u>1.5%</u>

SECTION C-C FOR TYPE 4B

CONCRETE CURB

PEDESTRIAN

TERRACE STRIP

VARIES O TO W

CONCRETE

CURB & GUTTER

ROADWAY

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

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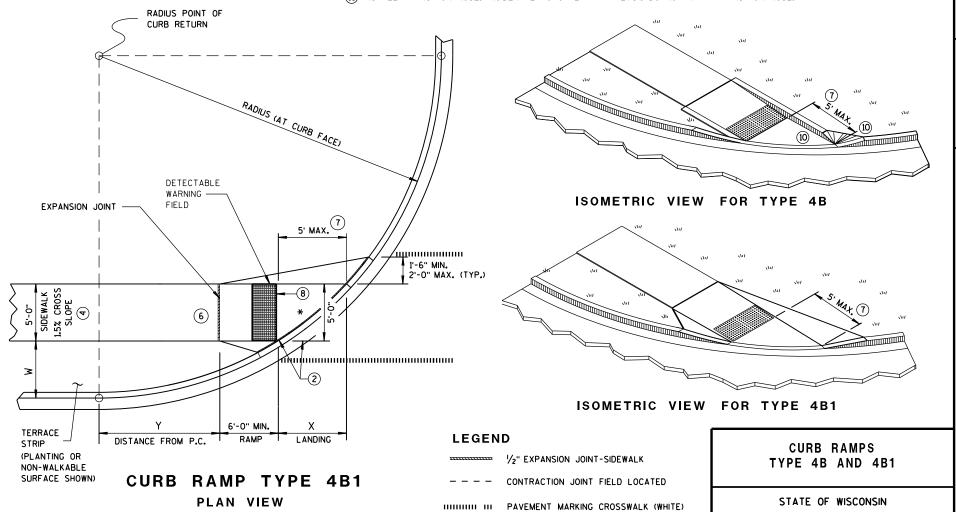
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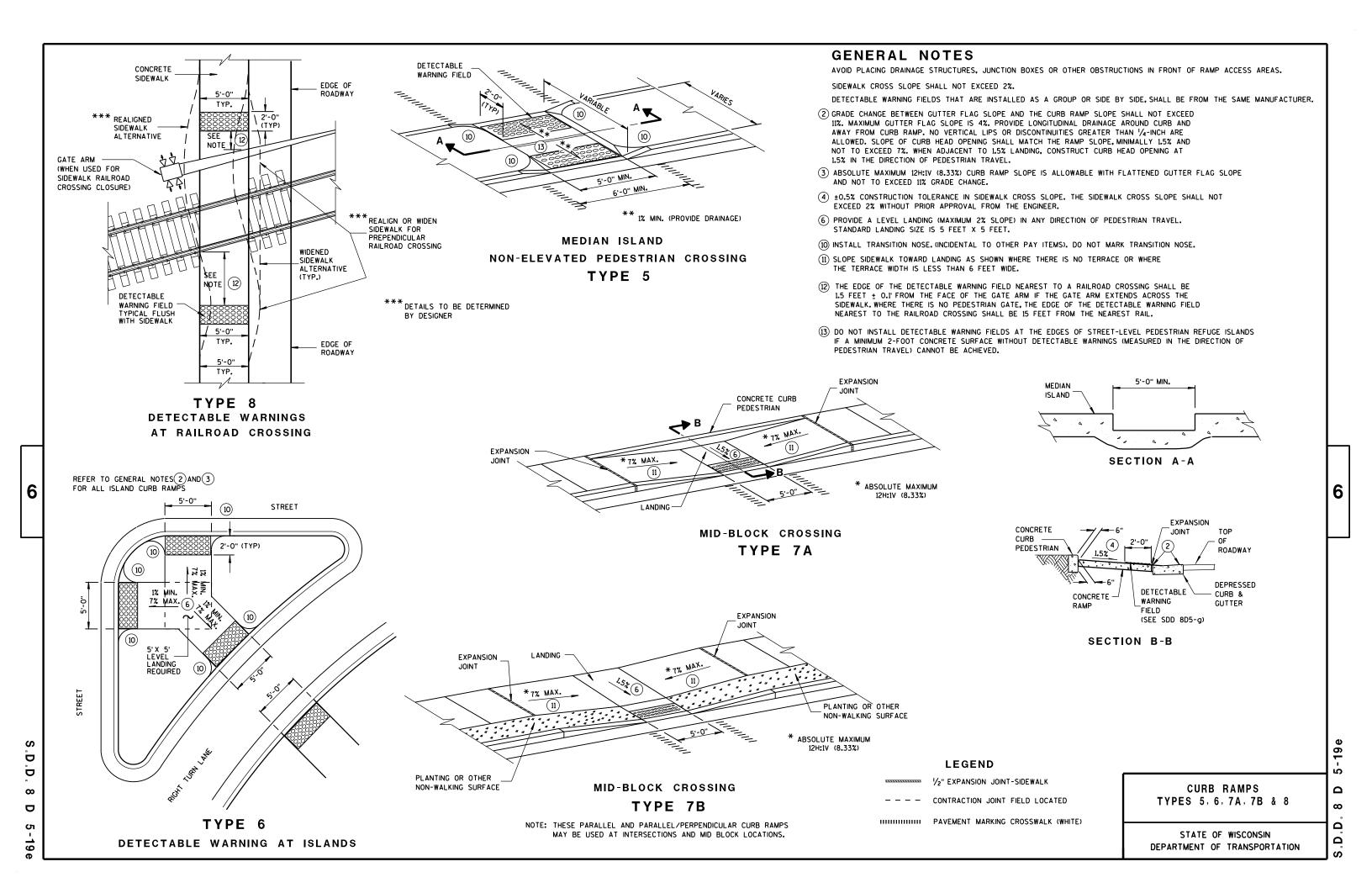
DEPARTMENT OF TRANSPORTATION

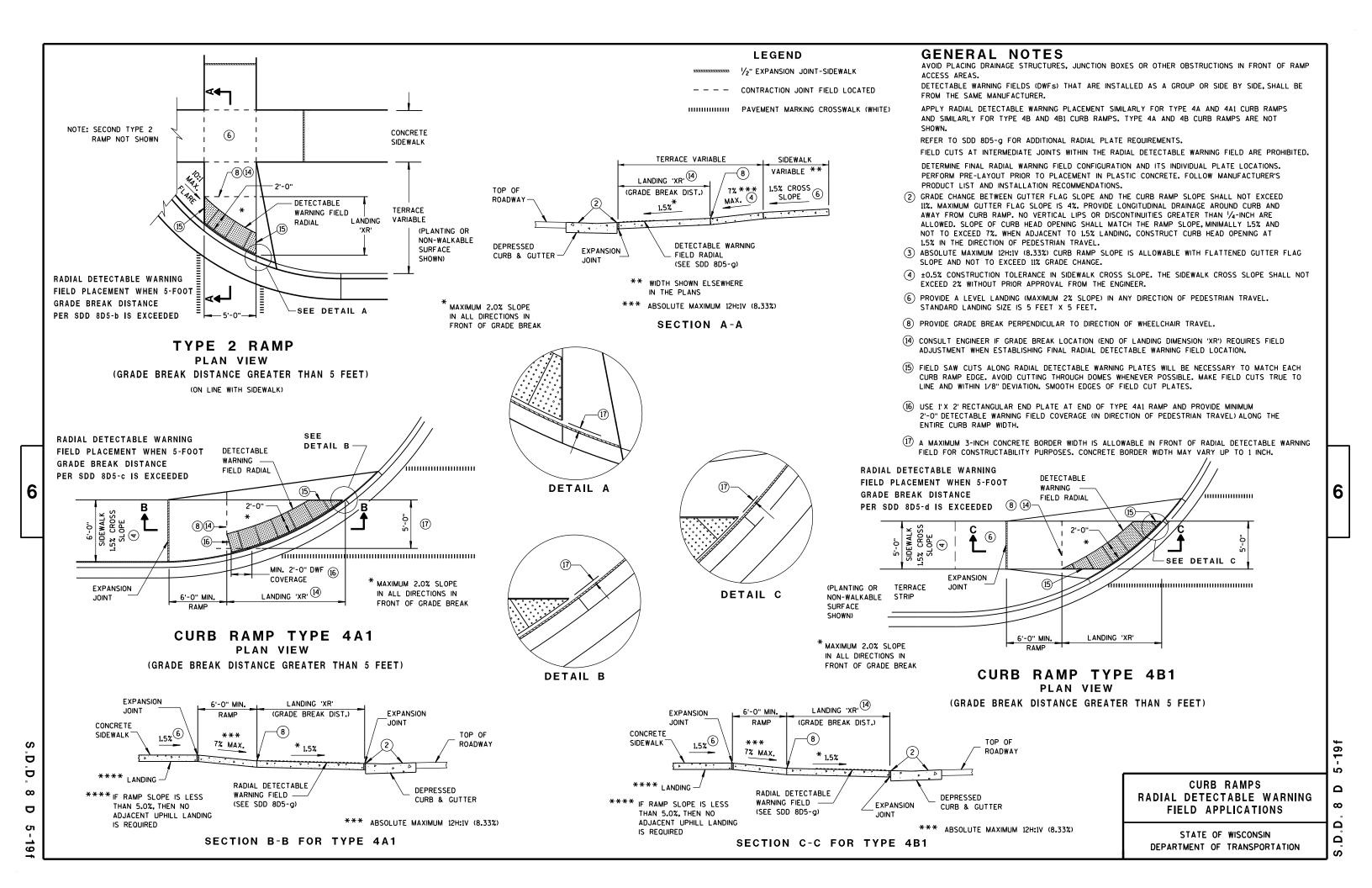
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

- ② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- 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.
- WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.
- 8 PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- (10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.







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A B	RAI <del>Q</del>	
A		B

**PLAN VIEW** 

00 C	
ELEVATION	VIEW

THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

MIN.

1.6"

0.65"

В

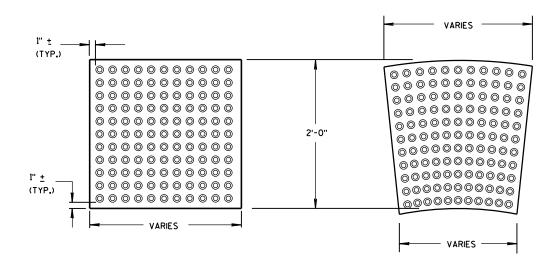
MAX

2.4"

1.5"

1.4"

# TRUNCATED DOMES DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR **PLATES** 

RADIAL **PLATES** 

DETECTABLE WARNING FIELDS (TYPICAL)

**PLAN VIEW** 

## **GENERAL NOTES**

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

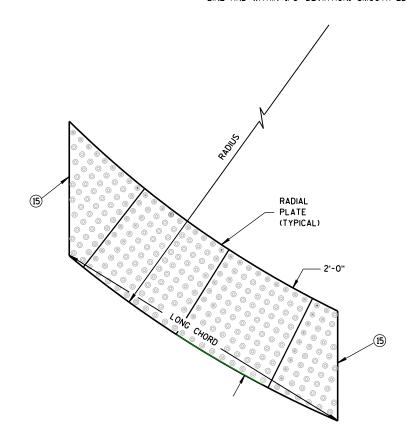
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGES IN COMBINATION WITH SQUARE PANELS ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



RADIAL DETECTABLE **WARNING FIELD ATTRIBUTES** 

## CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES

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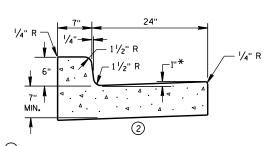
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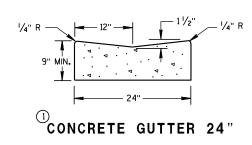
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

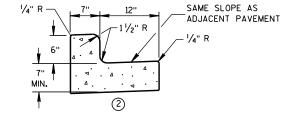


CONCRETE CURB & GUTTER 31"

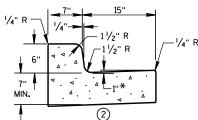


\* TO BE MEASURED TO A

MAXIMUM OF 3" WHERE DRAINAGE PROBLEMS EXIST.



**CONCRETE CURB & GUTTER 19"** 



OCONCRETE CURB & GUTTER 22"

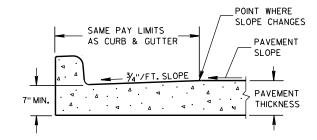
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PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER

#### **GENERAL NOTES**

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

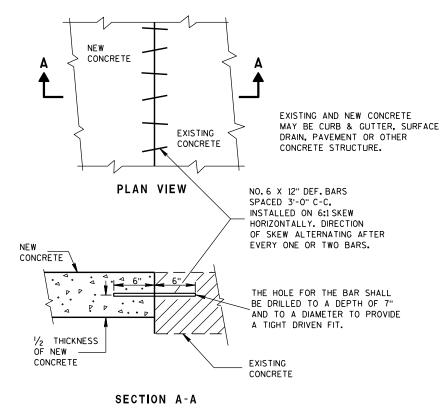
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

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.

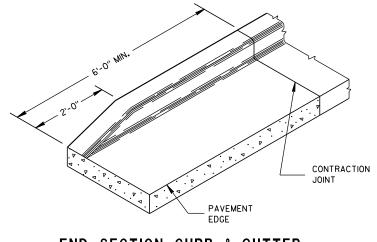
WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 2'-O" BEHIND THE BACK OF CURB.

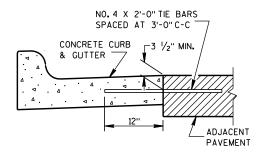
- WHEN PLACED ADJACENT TO NEW CONCRETE, TIE BARS ARE REQUIRED FOR CURB AND GUTTER 31", 22", 19" AND CONCRETE GUTTER 24".
- THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 7" MIMIMUM GUTTER THICKNESS IS
- (3) WHEN HIGH SIDE CURB SECTION IS REQUIRED, THE LOCATION(S) WILL BE NOTED ON THE PLAN.



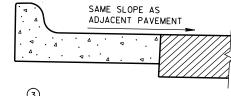
**PAVEMENT TIES** 



**END SECTION CURB & GUTTER** 



TYPICAL TIE BAR LOCATION



HIGH SIDE SECTION

(TYPICAL FOR ALL CURB & GUTTER)



(For Optional Use in Milwaukee Co. Only)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Jerry Zogg 11/2/2010 ROADWAY STANDARDS DEVELOPMENT ENGINEER

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INLET PROTECTION, TYPE A

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

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.



# INLET PROTECTION, TYPE C (WITH CURB BOX)

#### **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

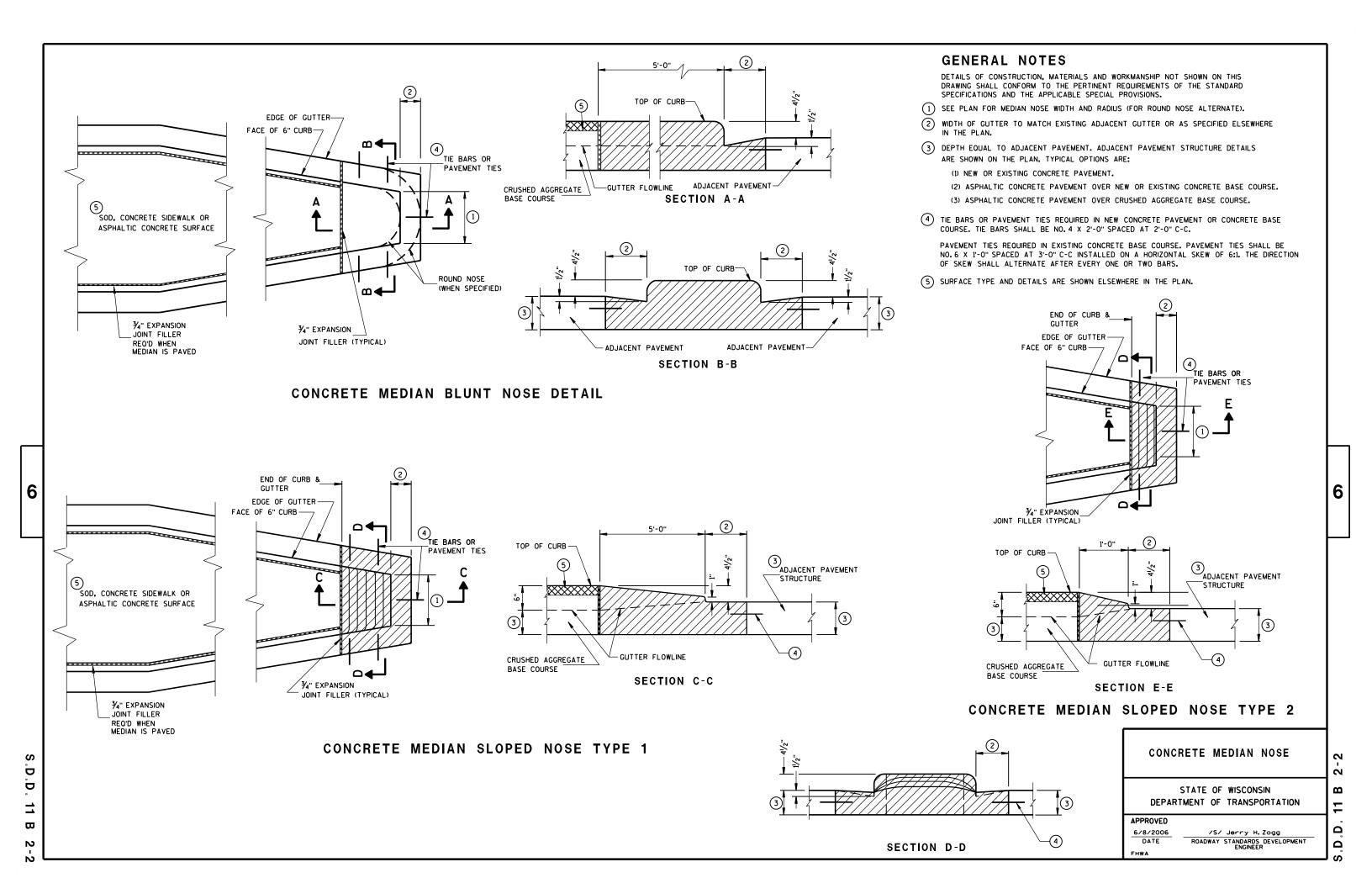
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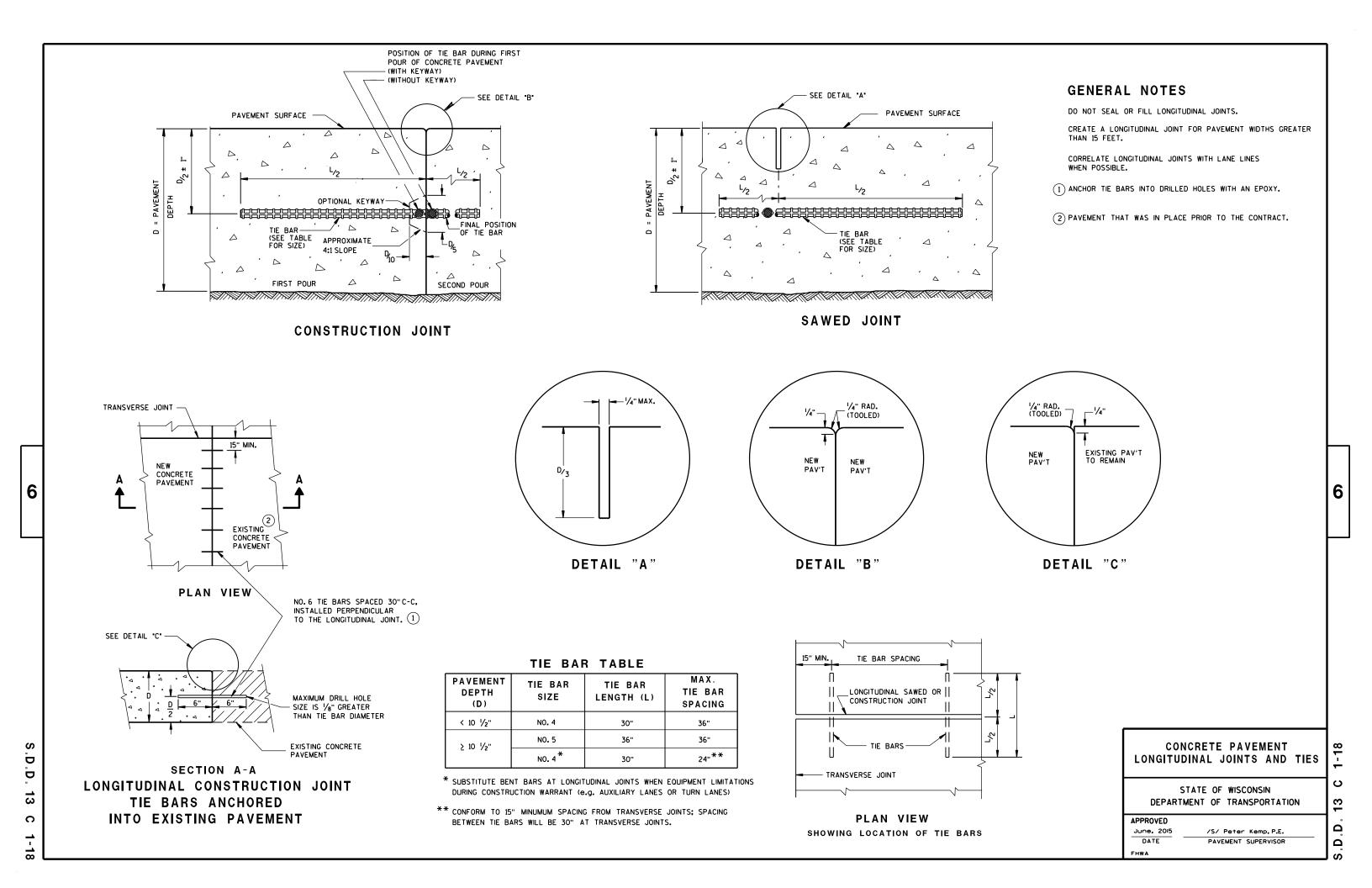
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

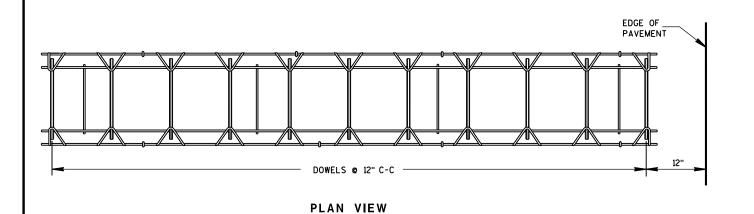
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#### PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING		
5 1/2", 6",6 1/2"	NONE	12'		
7",7 1/2"	1"	14'		
8"•8 1/2"	1 1/4"	15'		
9",9 1/2"	1 1/4"	15'		
10" & ABOVE	1 1/2"	15'		

#### **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.

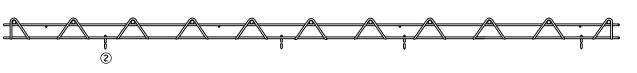
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

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

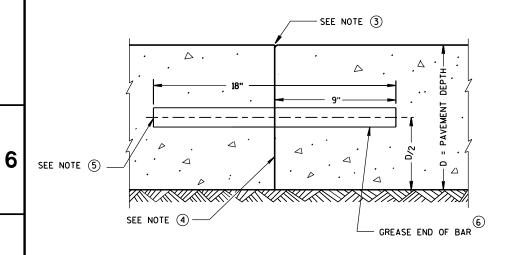
#### CONSTRUCTION JOINTS

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 1/4-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 1/8-INCH GREATER THAN DOWEL BAR DIAMETER. 9 INCHES IN LENGTH.



SIDE VIEW CONTRACTION JOINT DOWEL ASSEMBLY



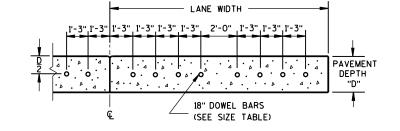
TRANSVERSE CONSTRUCTION JOINT

△ DOWEL BARS © 12" C-C 12" FROM PAVEMENT EDGE-

**DOWELED CONTRACTION JOINT** 

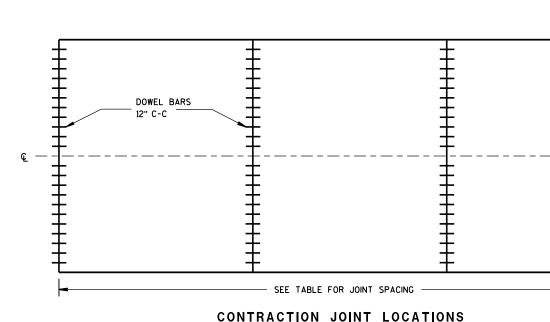
(SEE SIZE TABLE)

SEE JOINT DETAIL



(FOR 11' LANE WIDTH REDUCE CENTER SPACE TO 1'-O")

# DRILLED DOWEL BAR CONSTRUCTION JOINT $^{\scriptsize \bigcirc}$



JOINT DETAIL

# **URBAN DOWELED CONCRETE PAVEMENT**

- ¼" MAX.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

**APPROVED** 5/3/2013

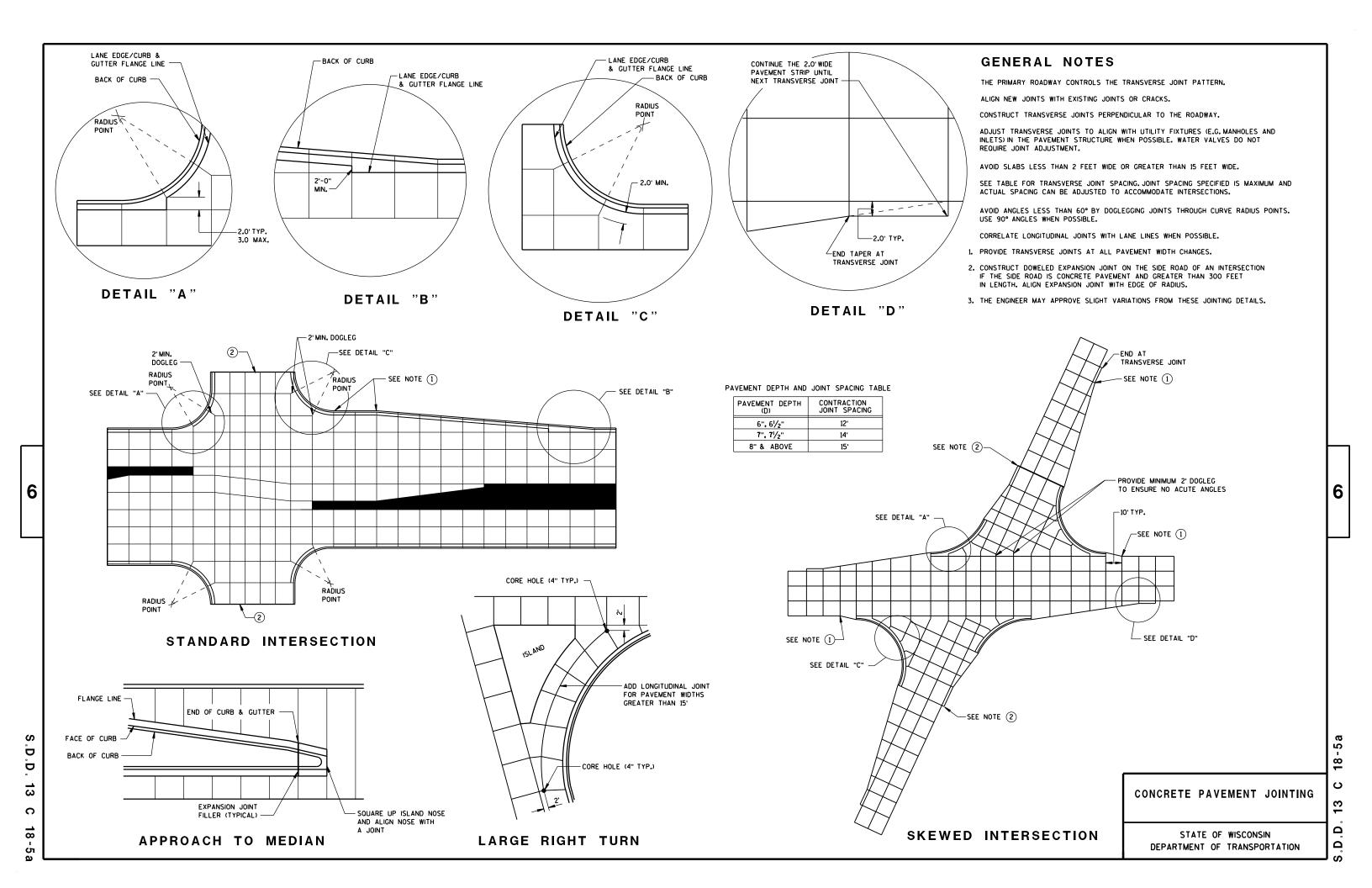
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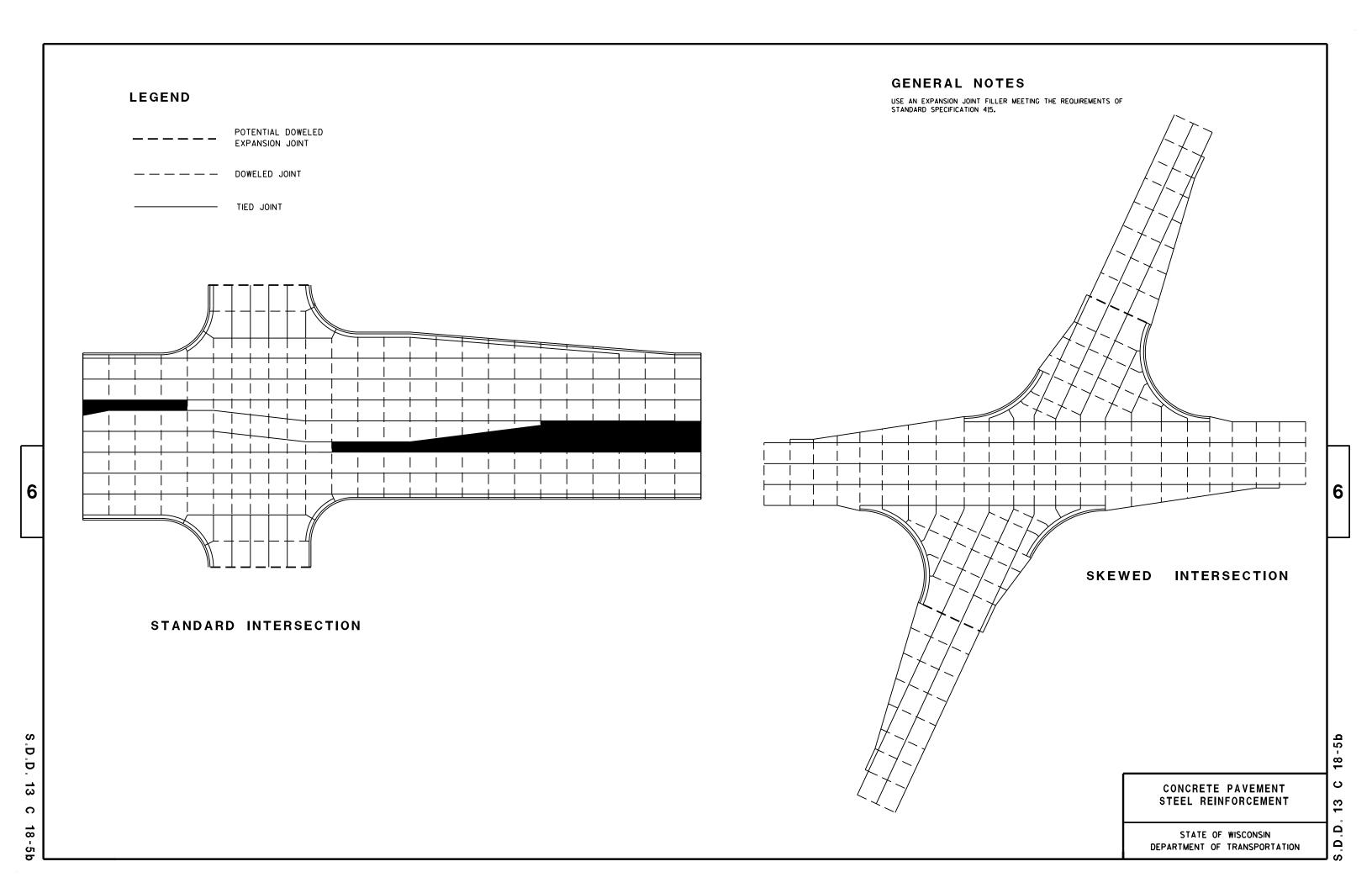
/S/ Deb Bischoff PAVEMENT POLICY & DESIGN ENGINEER

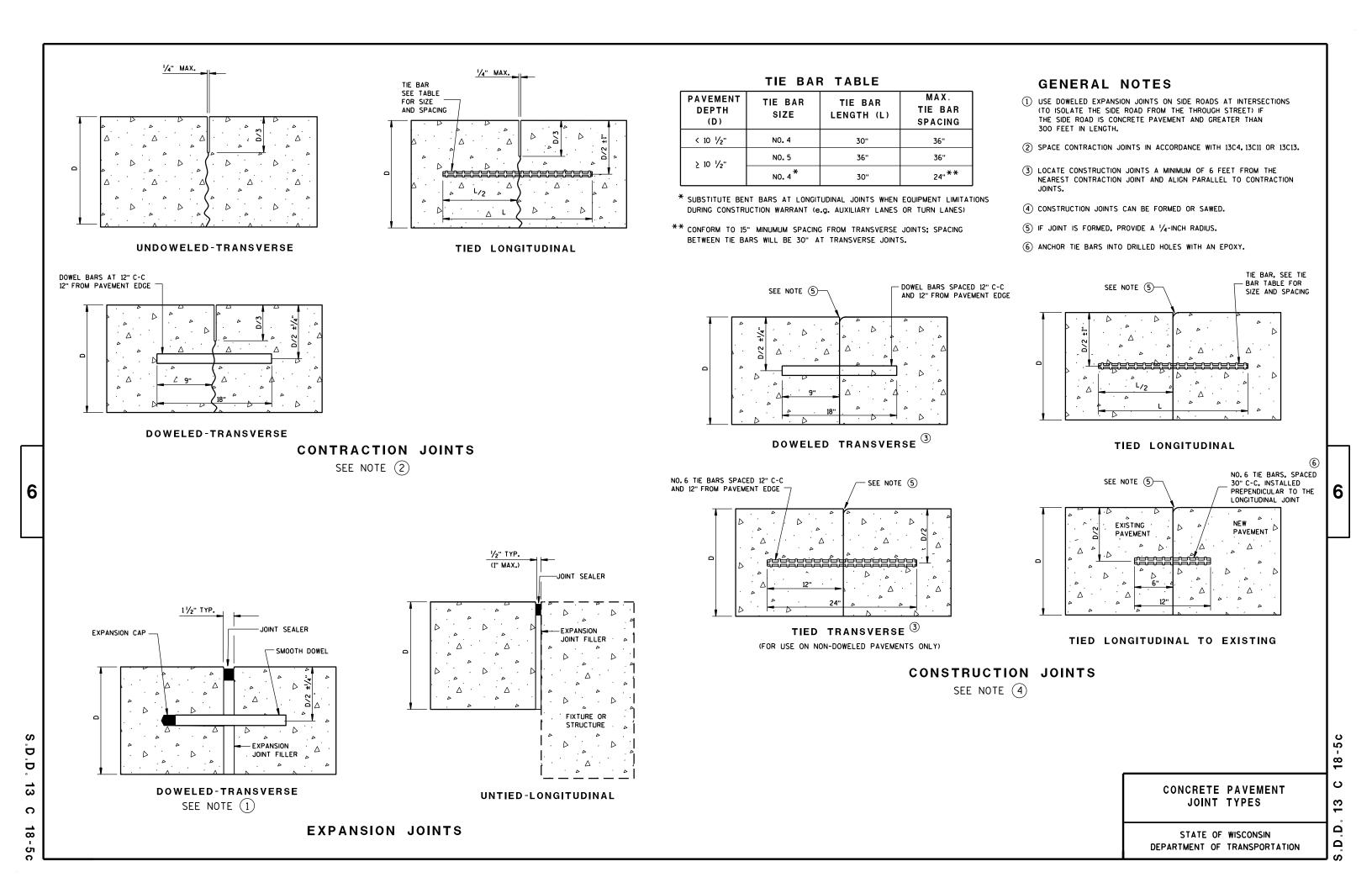
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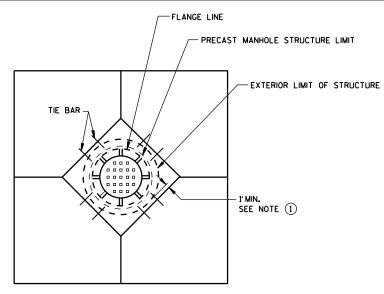
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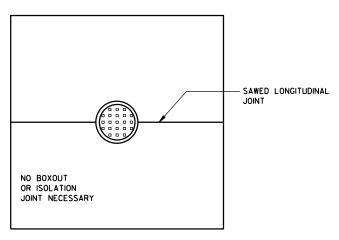




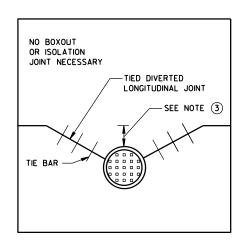




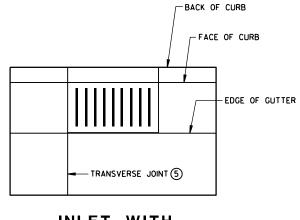
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



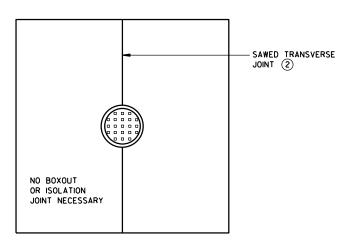
MANHOLE WITH LONGITUDINAL JOINT



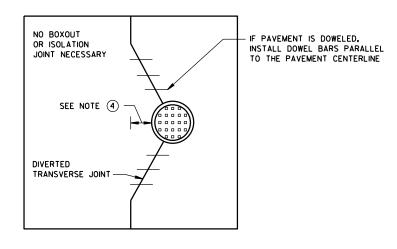
MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



INLET WITH TRANSVERSE JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

- 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

FHWA

December, 2016 /S/ Peter Kemp, P.E.

DATE PAVEMENT SUPERVISOR

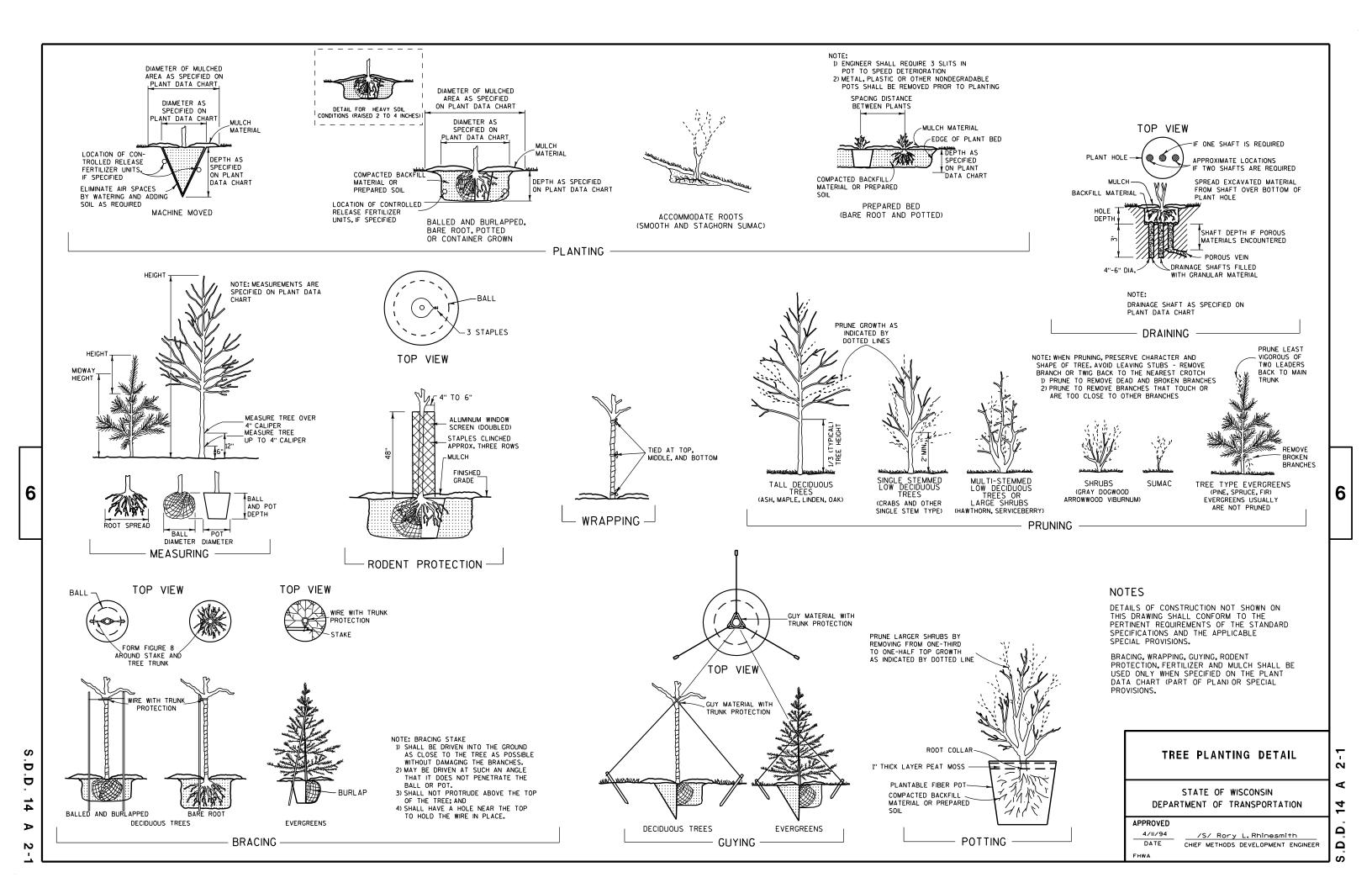
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THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

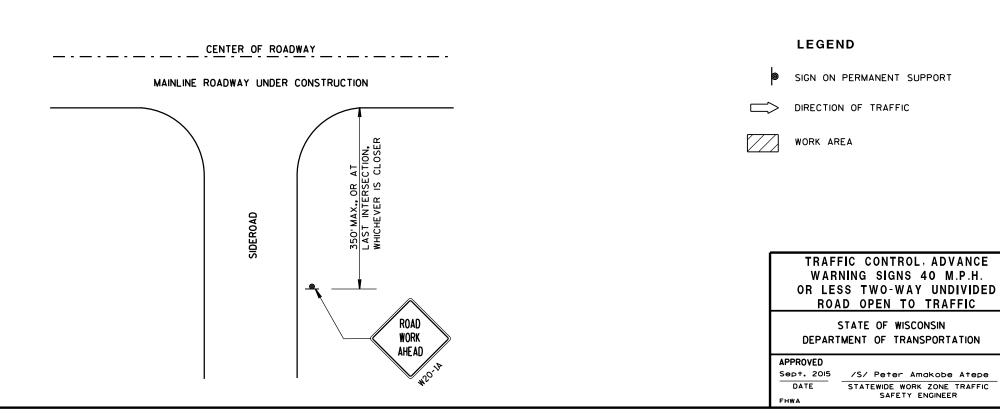
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"×36" SIGNS MAY BE USED INSTEAD OF 48"×48" 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.

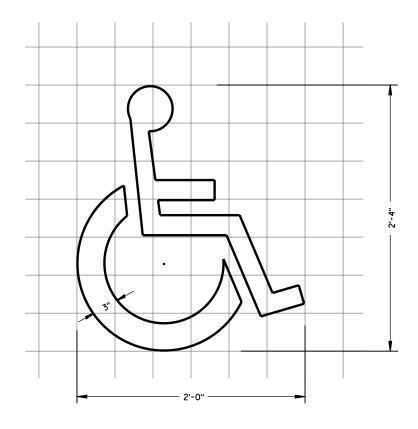


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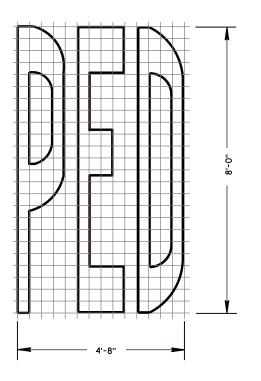
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DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



HANDICAP SYMBOL



3'-0"

PREFERENTIAL LANE SYMBOL

PAVEMENT MARKING SYMBOLS

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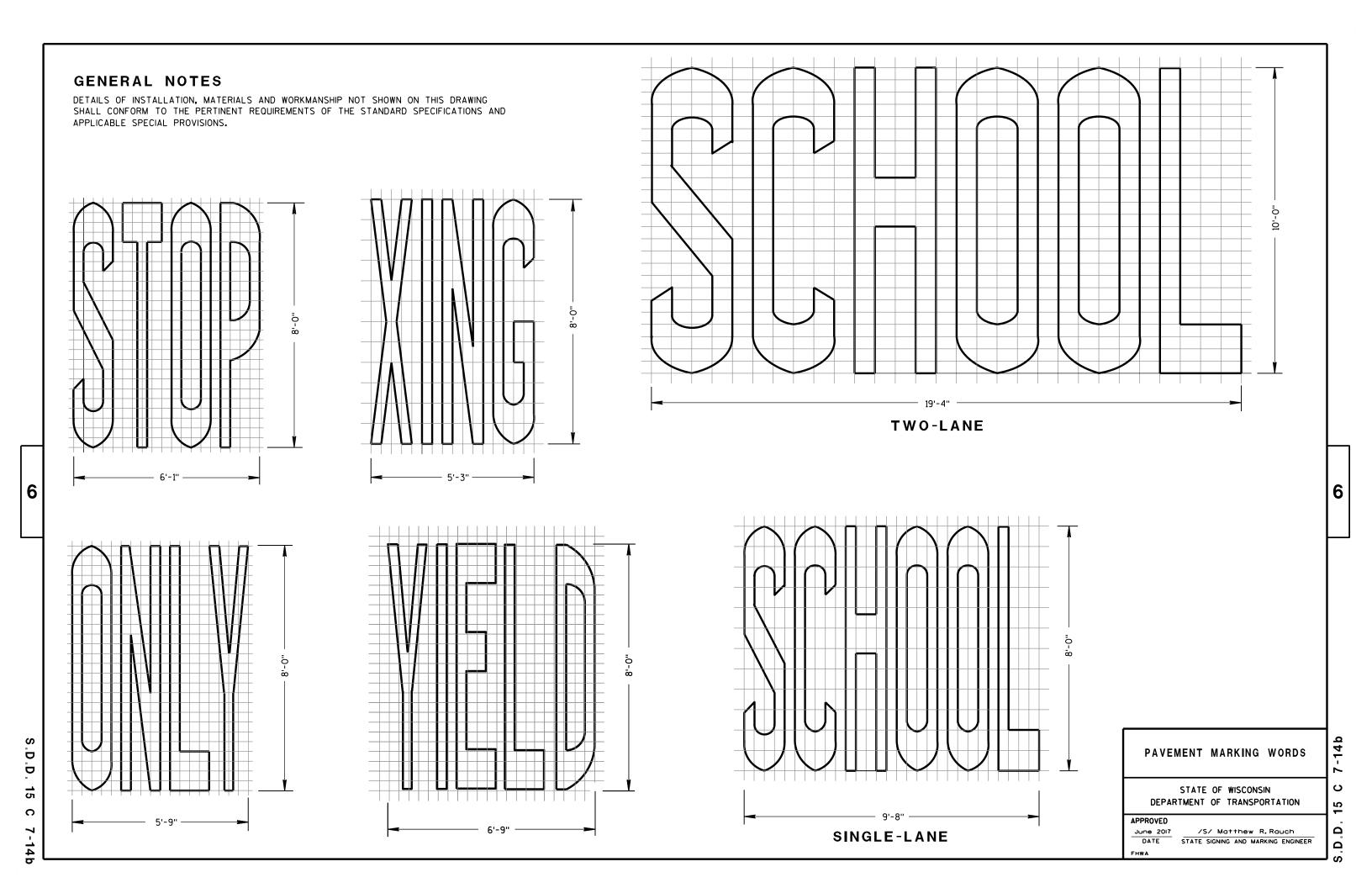
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

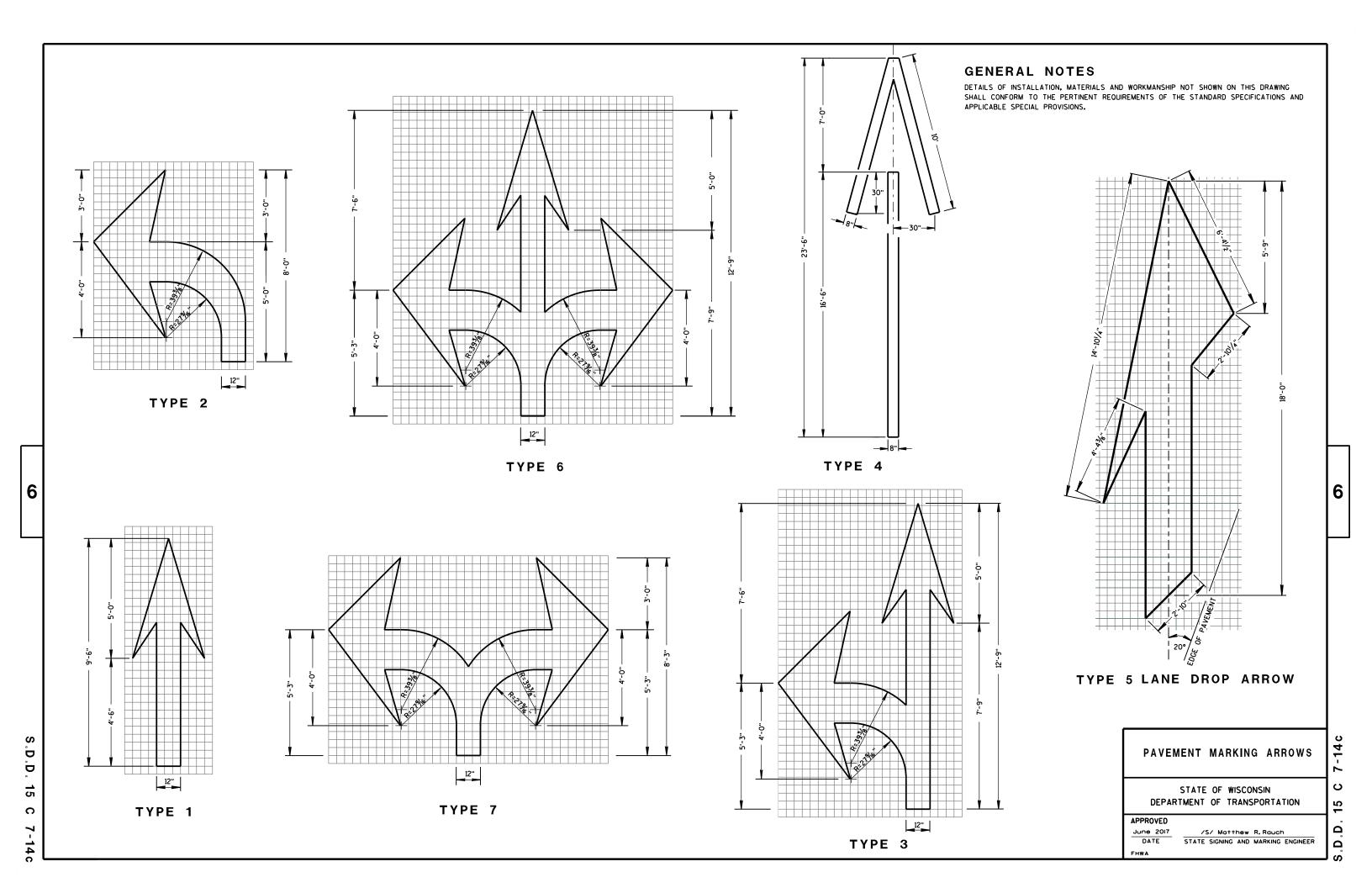
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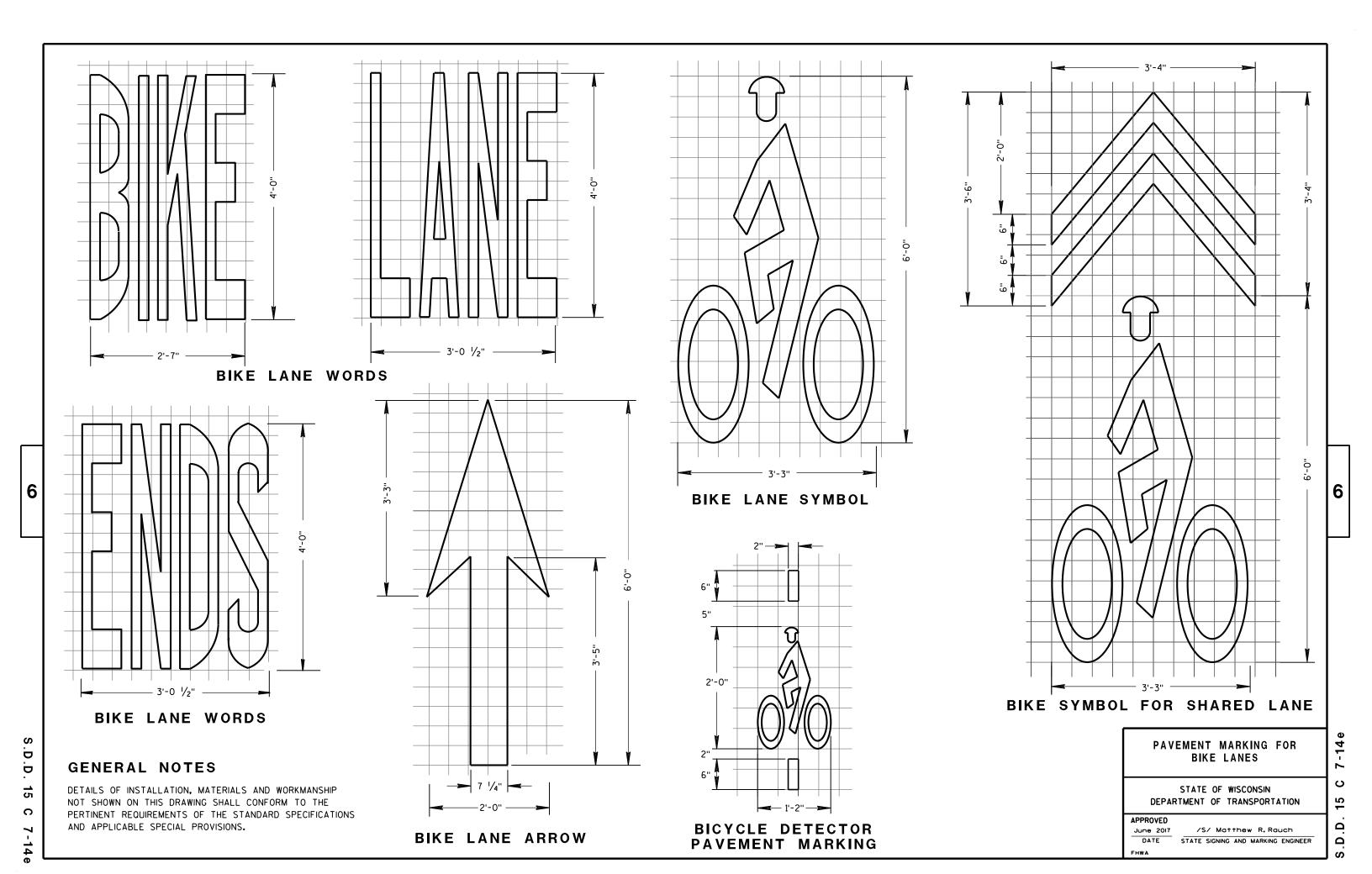
June 2017
DATE

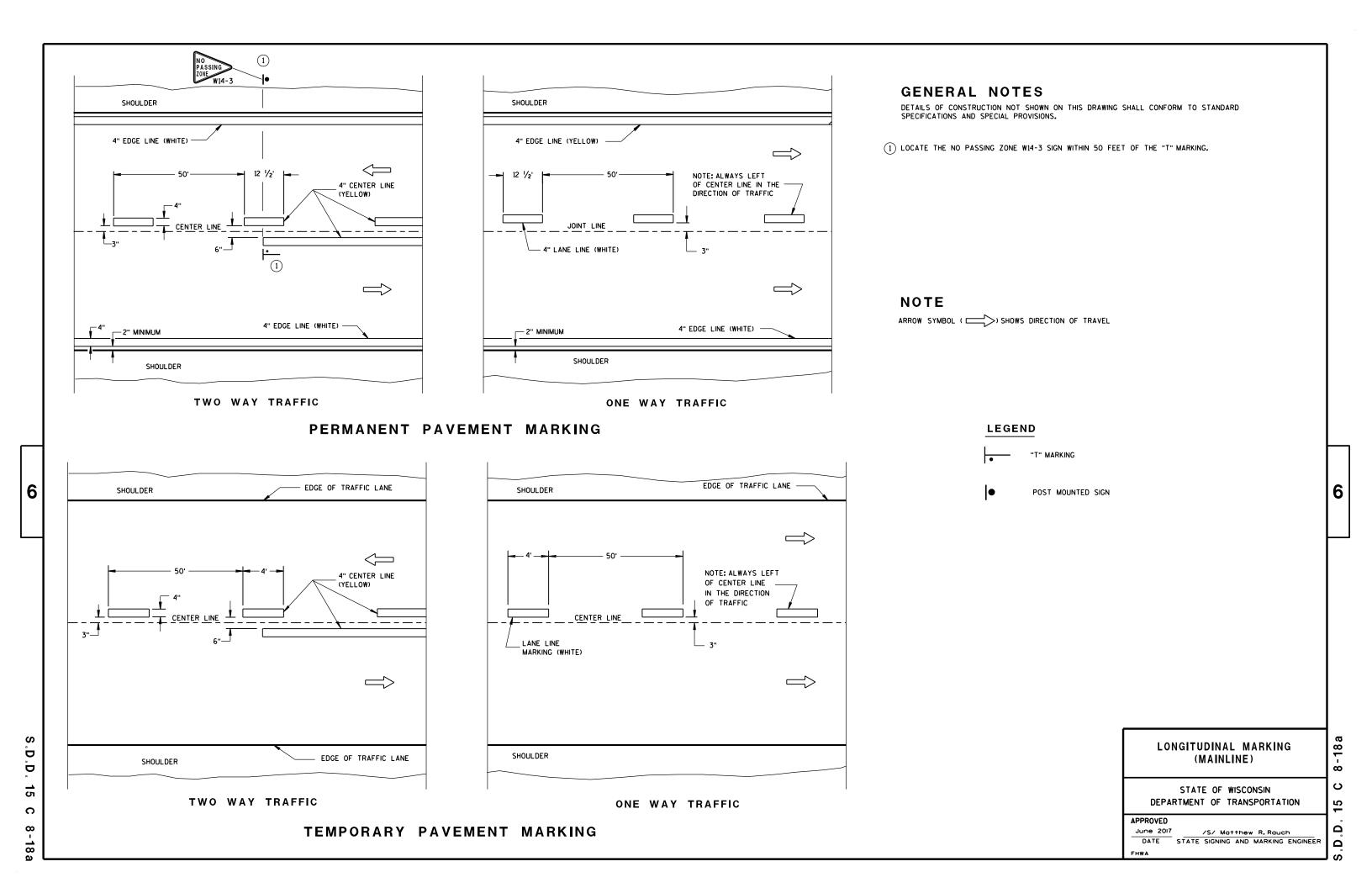
//S/ Motthew R. Rouch
STATE SIGNING AND MARKING ENGINEER

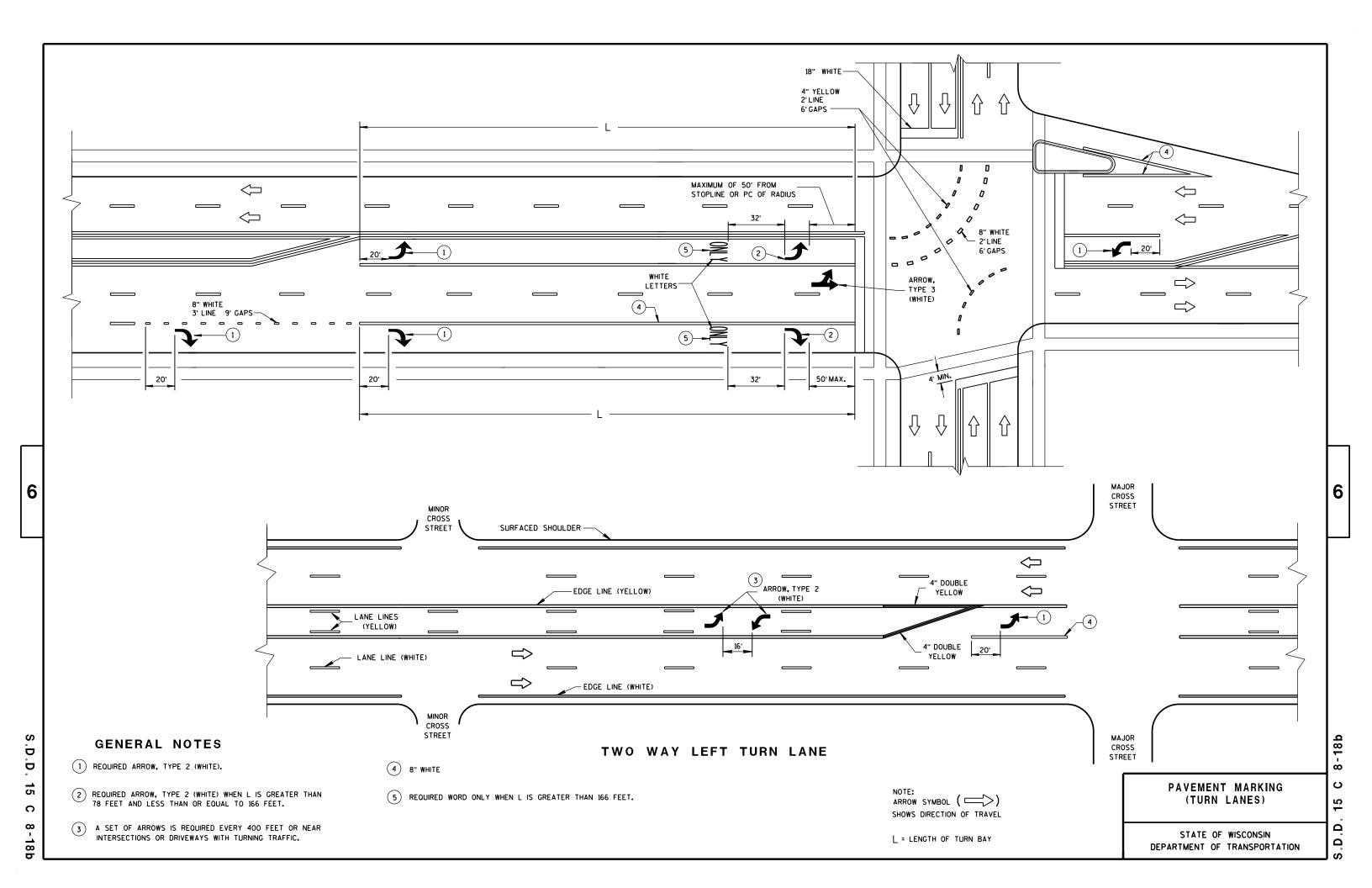
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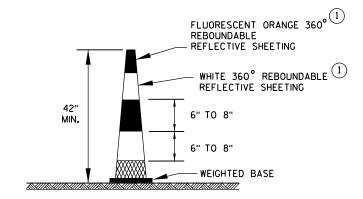




**DRUM** 

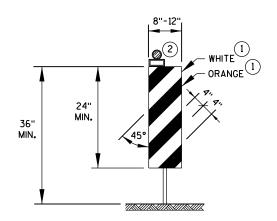
# TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



# **42**" CONE

DO NOT USE IN TAPERS 1/2 SPACING OF DRUMS

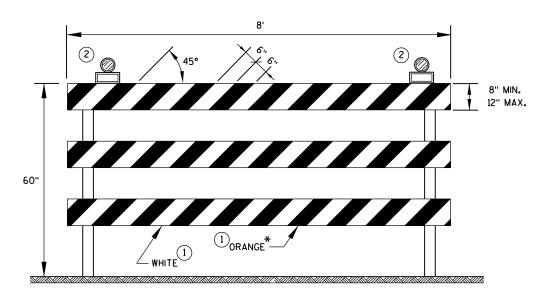


# **VERTICAL PANEL**

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.

# GENERAL NOTES

- REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



# TYPE 3 BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

\* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

# CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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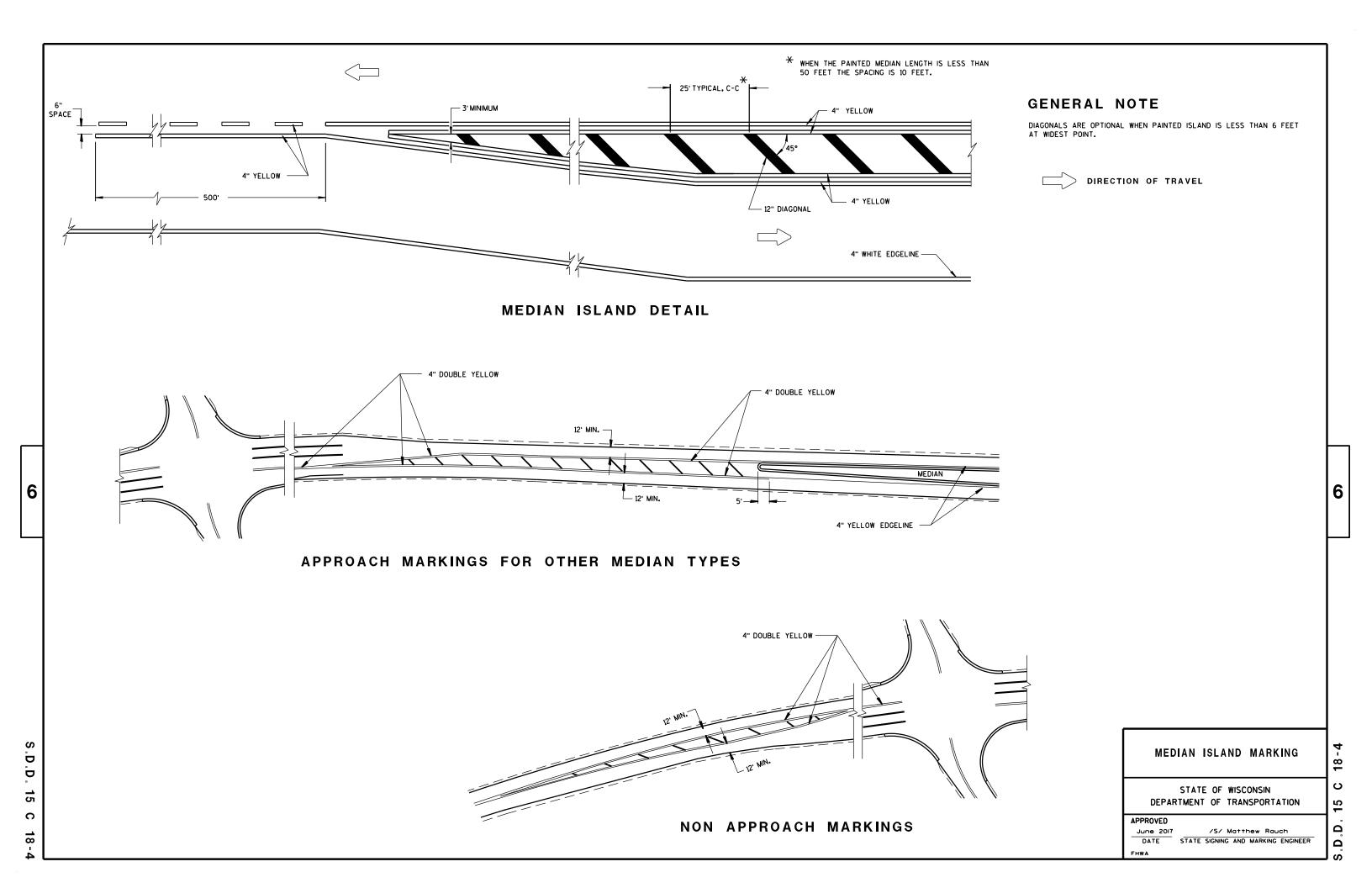
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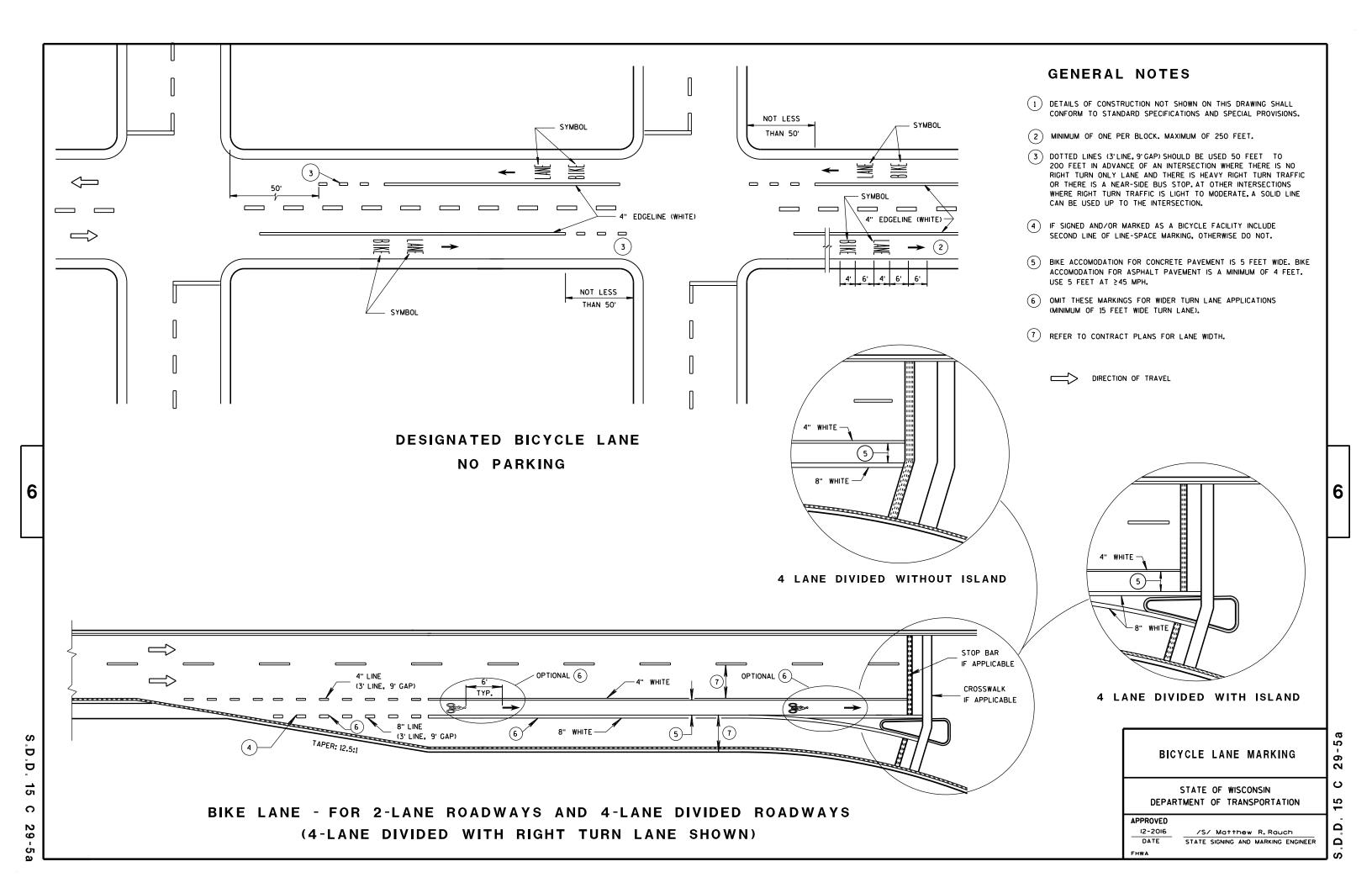
APPROVED

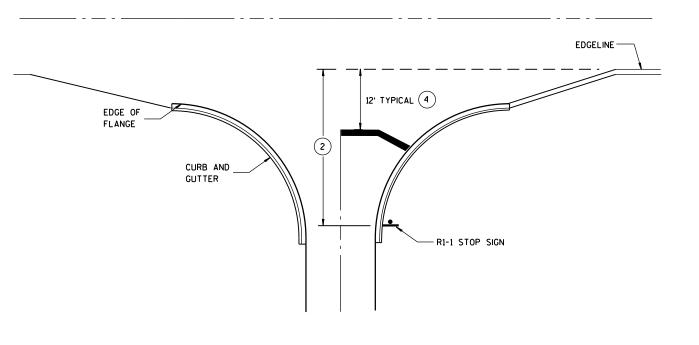
June 2017
DATE

WORK ZONE ENGINEER
FHWA

S.D.D. 15 C 1







8" CHANNELIZATION WHITE

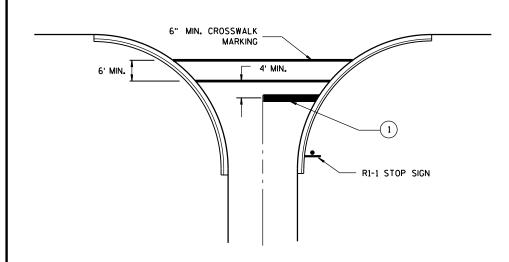
FLANGELINE (EXTENSION)

4" WHITE EDGELINE

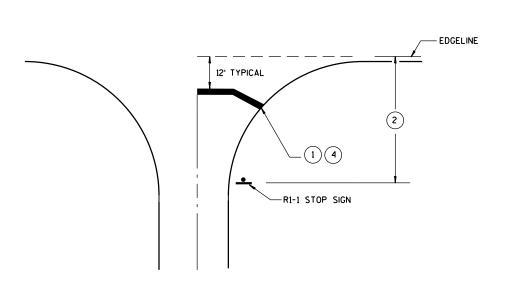
RI-1 STOP SIGN

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.
- MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

# STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
4-18-2016	/S/ Matthew R. Rauch
DATE	STATE SIGNING AND MARKING ENGINEER

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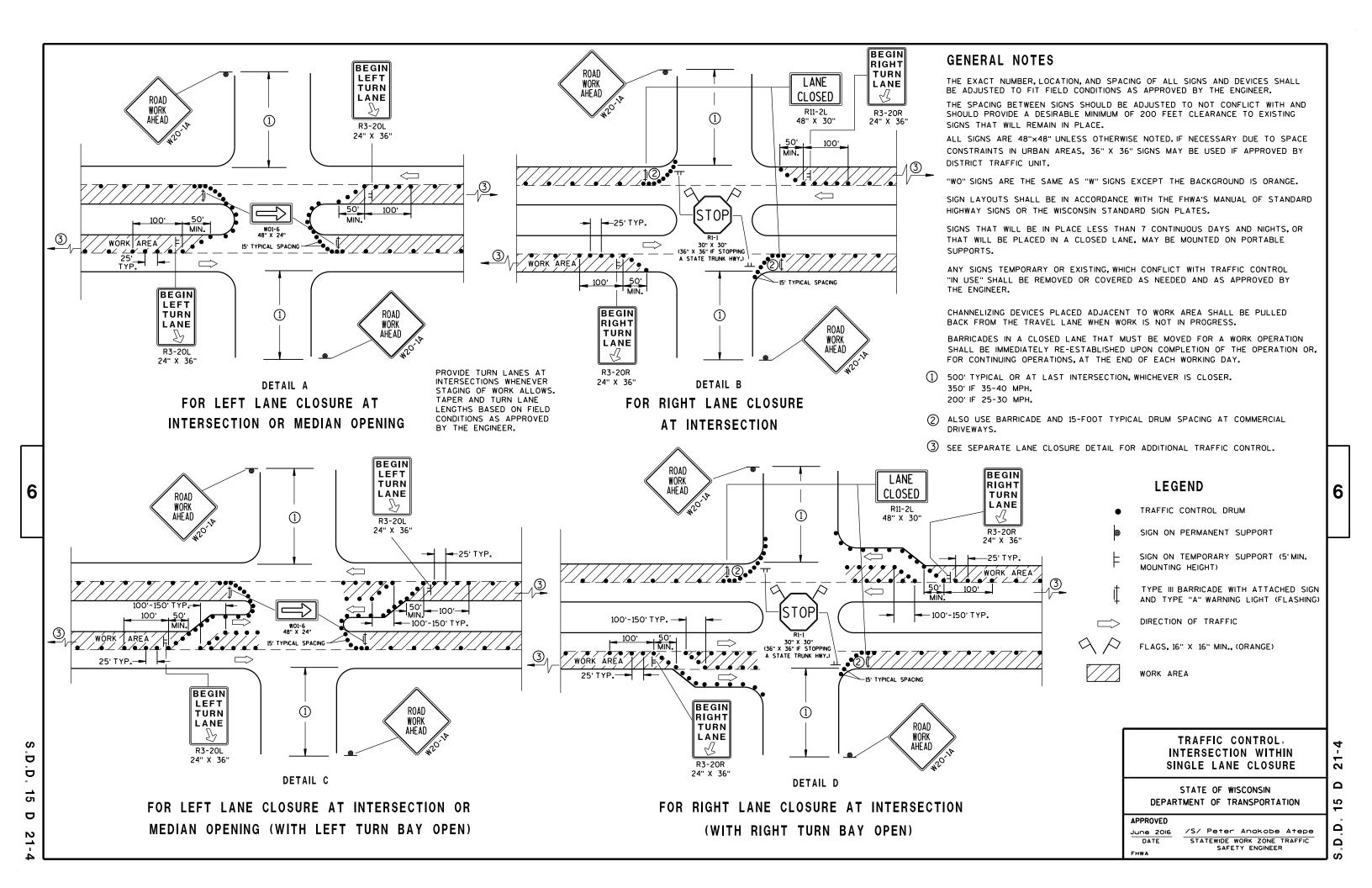
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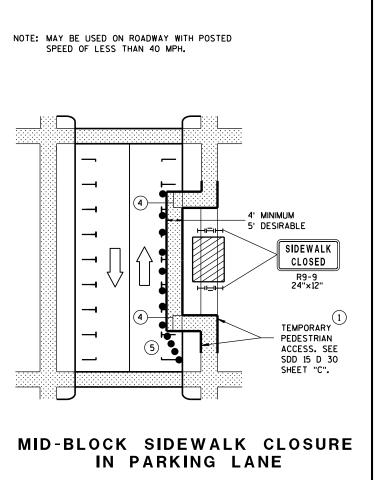
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NOTE: LAYOUT SAME AS ABOVE. 4' MINIMUM 5' DESIRABLE SIDEWALK CLOSED RQ-Q TEMPORARY PEDESTRIAN ACCESS. SEE SDD 15 D 30 SHEET "C". SIDEWALK DIVERSION

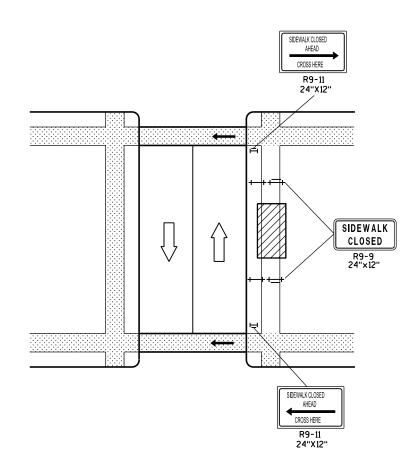
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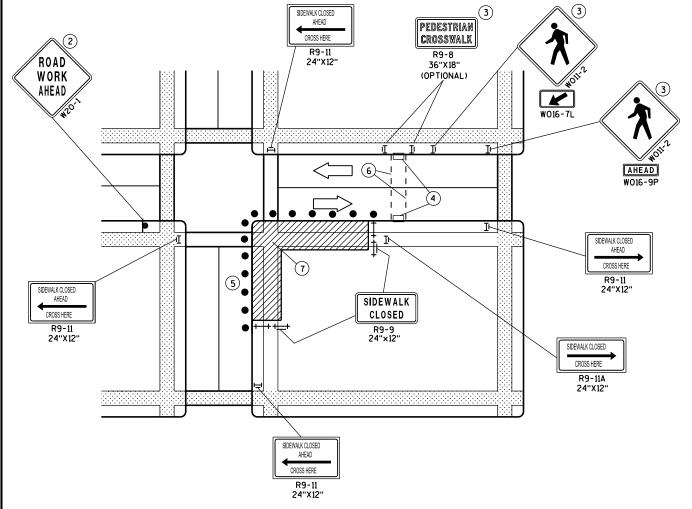
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MID-BLOCK SIDEWALK CLOSURE



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 WO11-2 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

#### **LEGEND**

SIGN ON PERMANENT SUPPORT

UNDER PEDESTRIAN TRAFFIC

TRAFFIC TRAFFIC CONTOL DRUM

DIRECTION OF

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)

#### TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION က 0 က Ω Ω

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PARALLEL TO CURB

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#### **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.

DEPARTMENT OF TRANSPORTATION

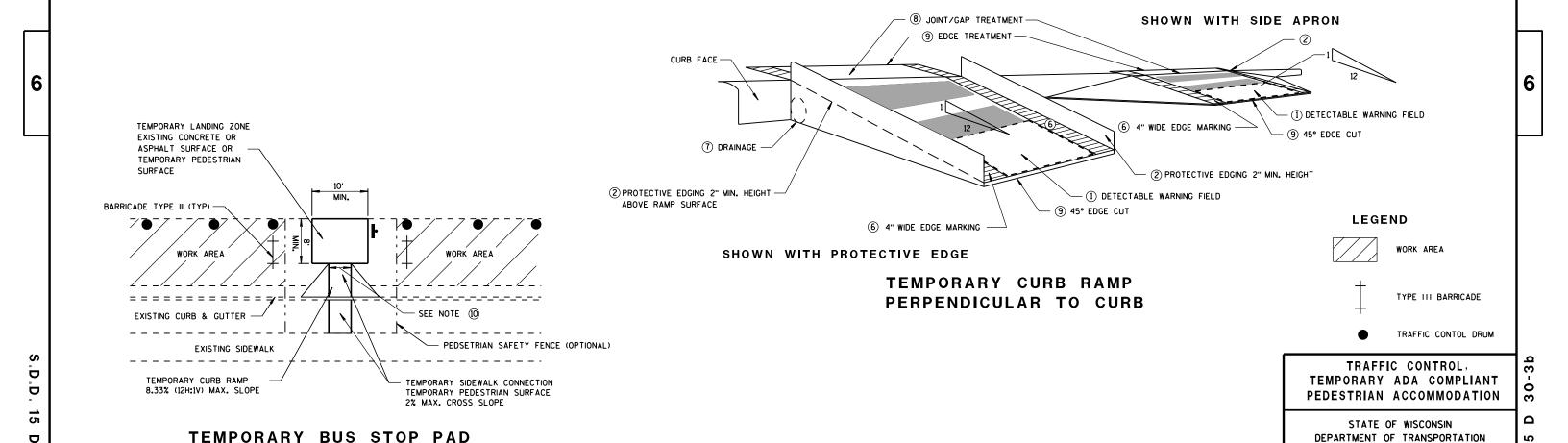
/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC

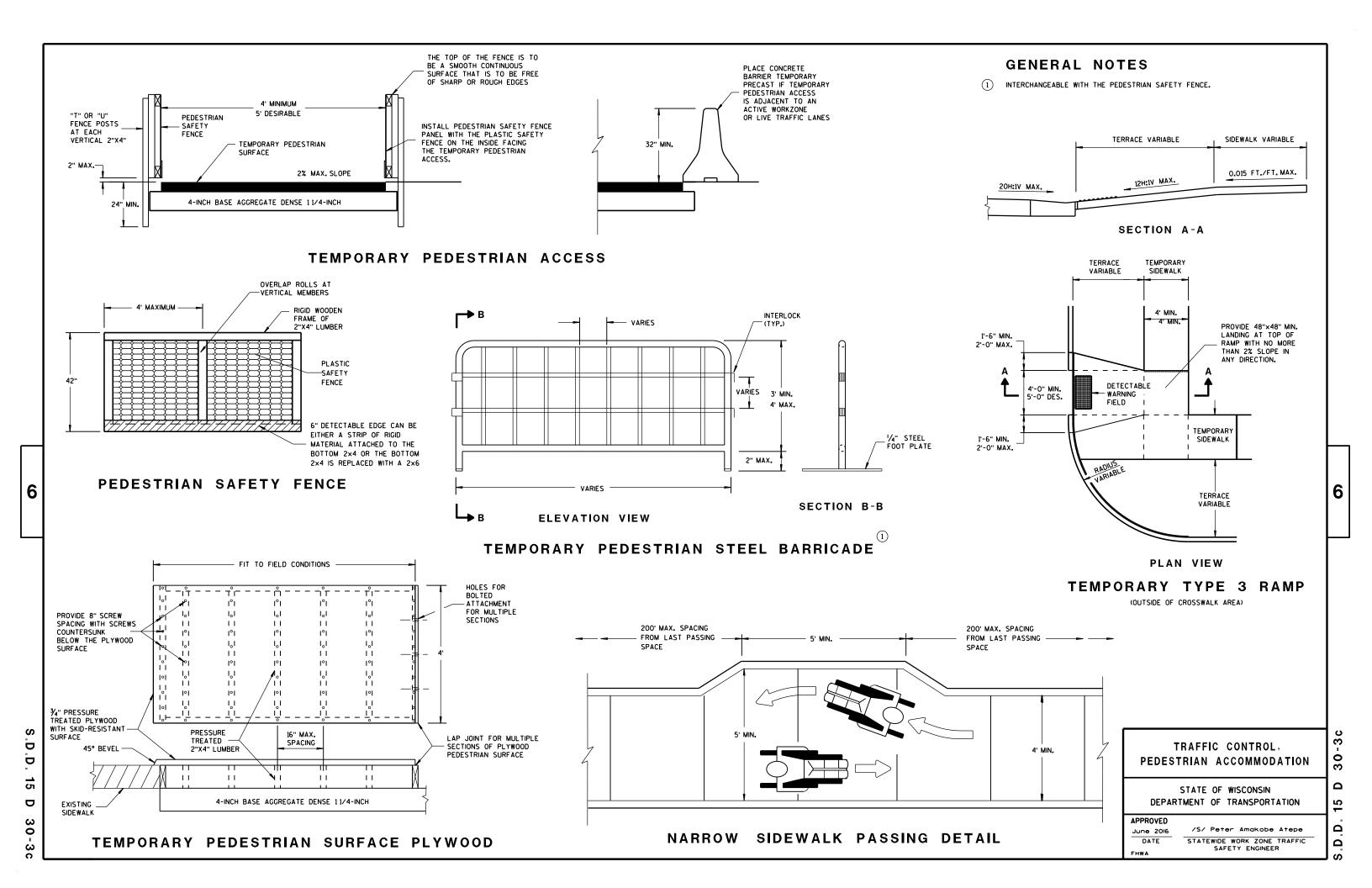
SAFETY ENGINEER

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APPROVED

June 2016







TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

#### URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH** 

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	NUMBER OF		
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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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 - 1/6" 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 - 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.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 /S/ Andrew Heidtke DATE WORK ZONE ENGINEER FHWA

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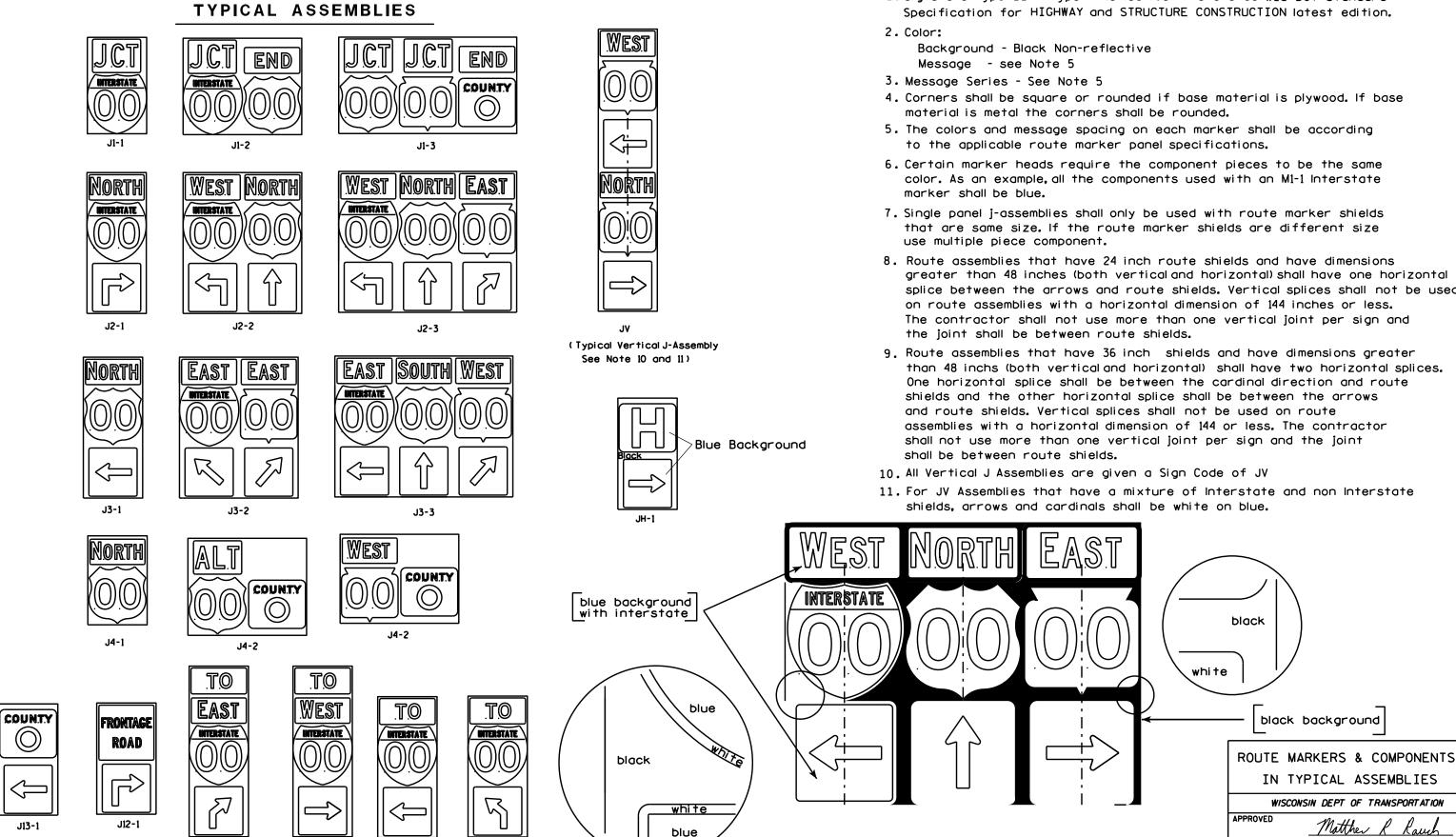
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1. Signs are Type II - Type H Reflective - reference WIS DOT Standard

areater 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.



PROJECT NO:

J32-1

J22-1

J23-1

J33-1

PLOT BY: mscsja

PLATE NO. \_\_A2-15.8

DATE 2/06/14

SHEET NO:

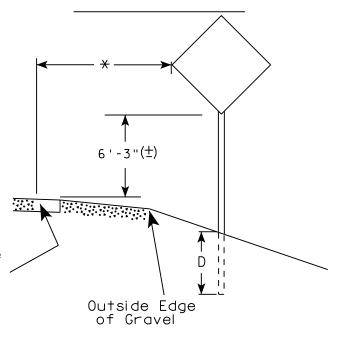
# urban area

2' Min - 4' Max (See Note 6)

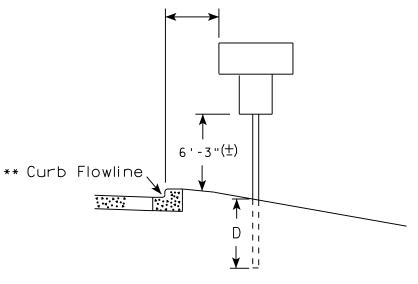
\*\* Curb Flowline

D | White Edgeline Location

RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 6)



White Edgeline
Location

Outside Edge
of Gravel

\*\* 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.

#### 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"  $(\pm)$  or 6'-3"  $(\pm)$  depending upon existence of a sub-sign.
- 4. J-Assemblies are considered to be one sign for mounting height.
- 5. Minimum mounting height for signs mounted on traffic signal poles is  $5'-3''(\pm)$ .
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The  $(\pm)$  tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) 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	D
( Sq.Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

SHEET NO:

PROJECT NO: HWY: COUNTY:



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



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

# GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (±) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8). Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4''-3'' (±).
- \* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- \*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- \*\* \* See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

# POST EMBEDMENT DEPTH

D
(Min)
4'
5'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRE)		
	L	E	
***	Greater than 48" Less than 60"	12"	
	60" to 108"	L/5	

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:



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

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

PLOT DATE . 11-416-2016 11:35

PINT RY \* \$\$ nintuser \$\$

SHEET NO:

| | |



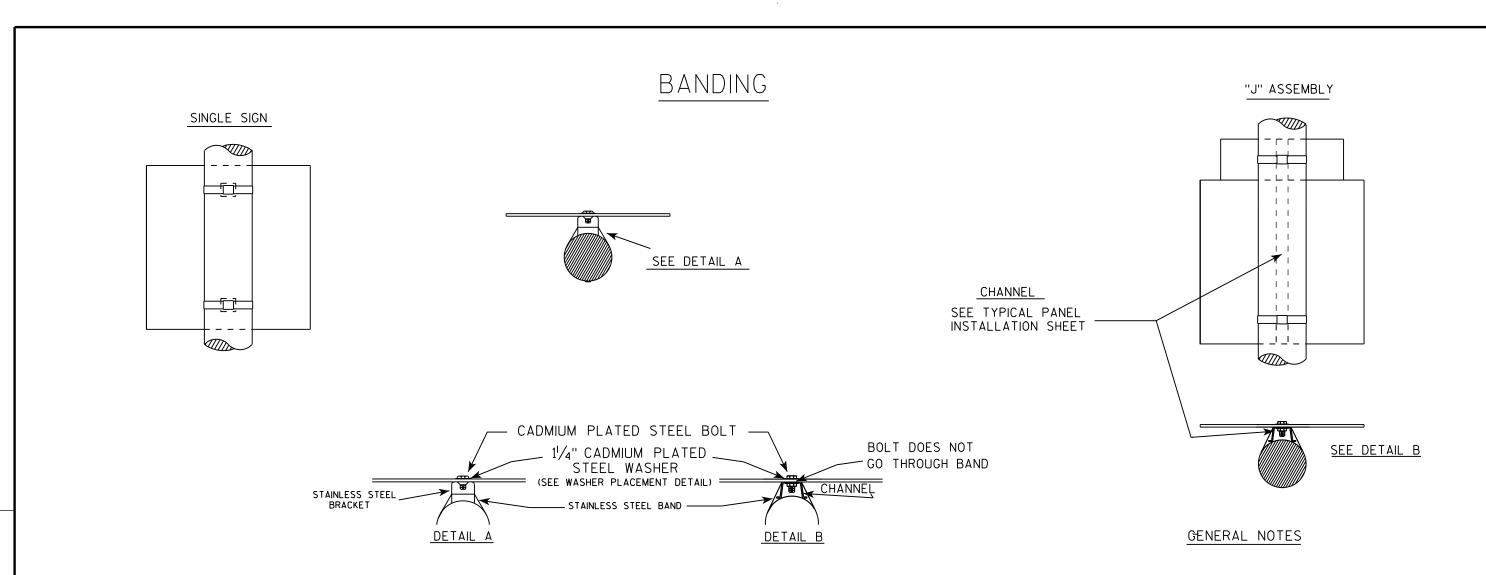
PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

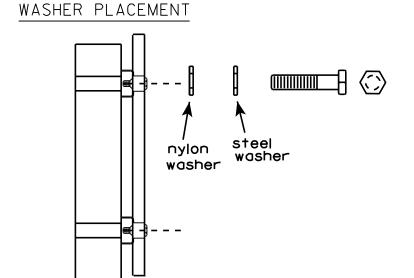
DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer







HWY:

WASHERS (ALL POSTS) -

COUNTY:

1-1/4" O.D. X3/8" I.D. X1/16" STEEL 1-1/4" O.D. X3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

PLOT BY: mscsja

- 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  $\frac{3}{4}$ " in width and 0.025" thickness.

STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 8/16/13

SHEET NO:

State Traffic Engineer

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A59.DGN

PROJECT NO:

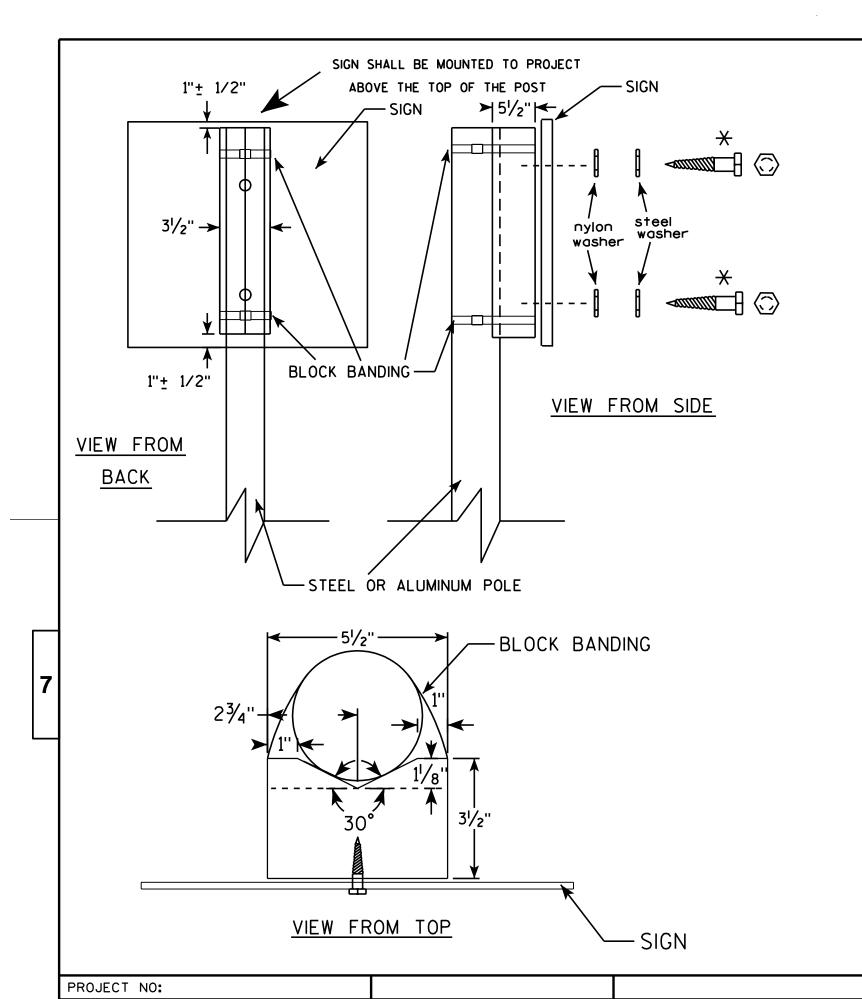
PLOT DATE: 16-AUG-2013 13:27

PLOT NAME :

PLOT SCALE: 33.740899:1.000000

WISDOT/CADDS SHEET 42

PLATE NO. A5-9.3



# 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, 3/4" 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 11/4" O.D. X 3/8" I.D. X 1/16"
- 8. NYLON WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

X LAG BOLTS SHALL BE 3/8" X 21/2"

BLOCK BANDING DETAIL
( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

For State Traffic Engineer

DATE 7/12/07

PLATE NO. A5-10.1

SHEET NO:

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	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	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 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED 400 110 00 00 110

for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\G202A.DGN

HWY:

PROJECT NO:

PLOT DATE: 30-SEP-2009 09:31

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

5.561773:1.000000 WISDOT/CADDS SHEET 42

- 1. Sign is Type II See Note 6 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Top Red - Bottom Blue (See Note 6) Message - White - See Note 6

- 3. Message Series See note 5
- 4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
- 5. M1-1 Numerals D Interstate - C

M1-1A - All copy - C

6. Permanent Signs

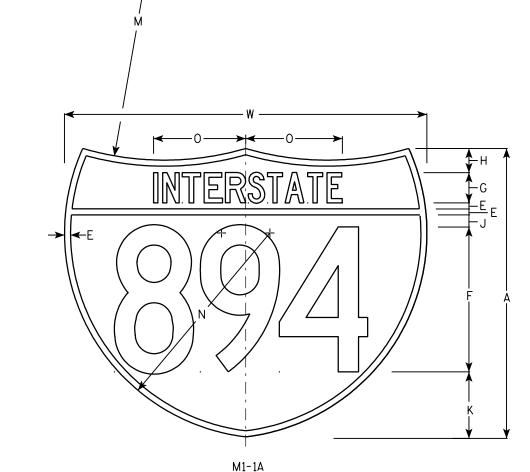
Message - Type H Reflective

Detour or other temporary signs Background - Reflective

Message - Reflective

M1-1

HWY:



PLOT DATE: 13-OCT-2005 14:49

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

<u></u>	100	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	X 300	וווווו		J00 I	IIIII X I	123 11111	<u>'                                    </u>																	M1 - 1	W1-1A	M1-1	W1-1A
SIZE	Α	В	С	D	E	F	G	Ι	I	J	K	L	М	N	0	Ρ	a	R	S	T	U	٧	W	Х	Y	Area sq. ft.	Area sq. ft.	Area m2	Area m2
1																													
2	24				1/2	12	2 ½	2		1	5 ½	15	24	17	7 1/8								30			3.13	3.91	<b>.</b> 36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 ½	36	25 ½	11 ¾								45			7.03	8.79	<b>.</b> 81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 ½	36	25 ½	11 ¾								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 ¾								45			7.03	8.79	<b>.</b> 81	1.05

COUNTY:

INTERSTATE ROUTE MARKER M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 08/23/05

For State Traffic Engineer

SHEET NO:

PLOT BY : DITJPH PLOT NAME :

PROJECT NO:

- 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

	BLACK  BLACK
Metric equivalent for this sign is:	<b>&gt;</b>

HWY:

SIZE 600 mm X 600 mm 900 mm X 900 mm 900 mm X 900 mm 900 mm X 900 mm

PROJECT NO:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1																												ļ
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 %	11 ½	1	1 %	11 1/4	21 1/8											4.0	<b>.</b> 36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0	<b>.</b> 81

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 3/20/02 PLATE NO. M1-6.9

SHEET NO:

FILE NAME : C:\Users\Projects\tr\_stdplate\M16.DGN

PLOT DATE: 13-OCT-2005 14:55

PLOT BY : DITJPH

PLOT NAME :

PLOT SCALE : 6.715871:1.000000







MP3-1









HWY:



# 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	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	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 1/8	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

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 **SERIES** 

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/15/15 PLATE NO. M3-1.14

Ε

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000



- 1. Sign is Type II Type H except as Shown
- 2. Color:

Background - See Note 5 Message - See note 5

- 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. M4-1A Background White

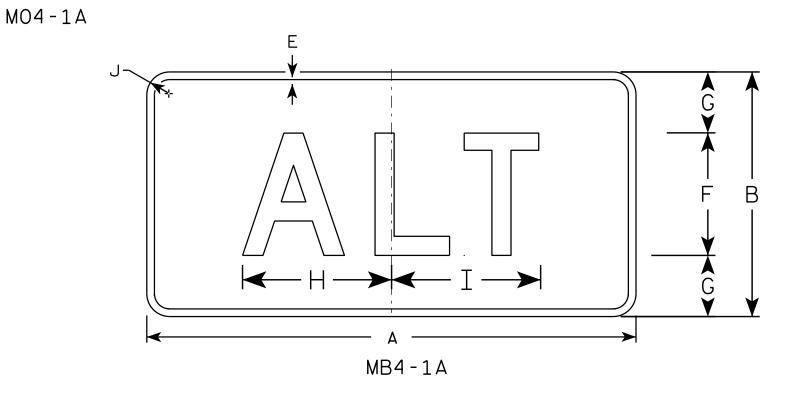
Message - Black

MB4-1A Background - Blue

Message - White

M04-1A Background - Orange - Type F

Message - Black



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3∕8	3/8	6	3	7 1/4	7 3/8	1 1/8																	2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	11	11 1/8	1 1/8																	4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	11	11 1/8	1 1/8																	4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	11	11 1/8	1 1/8																	4.5

COUNTY:

STANDARD SIGN

M4-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R K

For State Traffic Engineer

DATE 6/30/14

PLATE NO. M4-1A.3
SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\M41A.DGN

PROJECT NO:

M4-1A

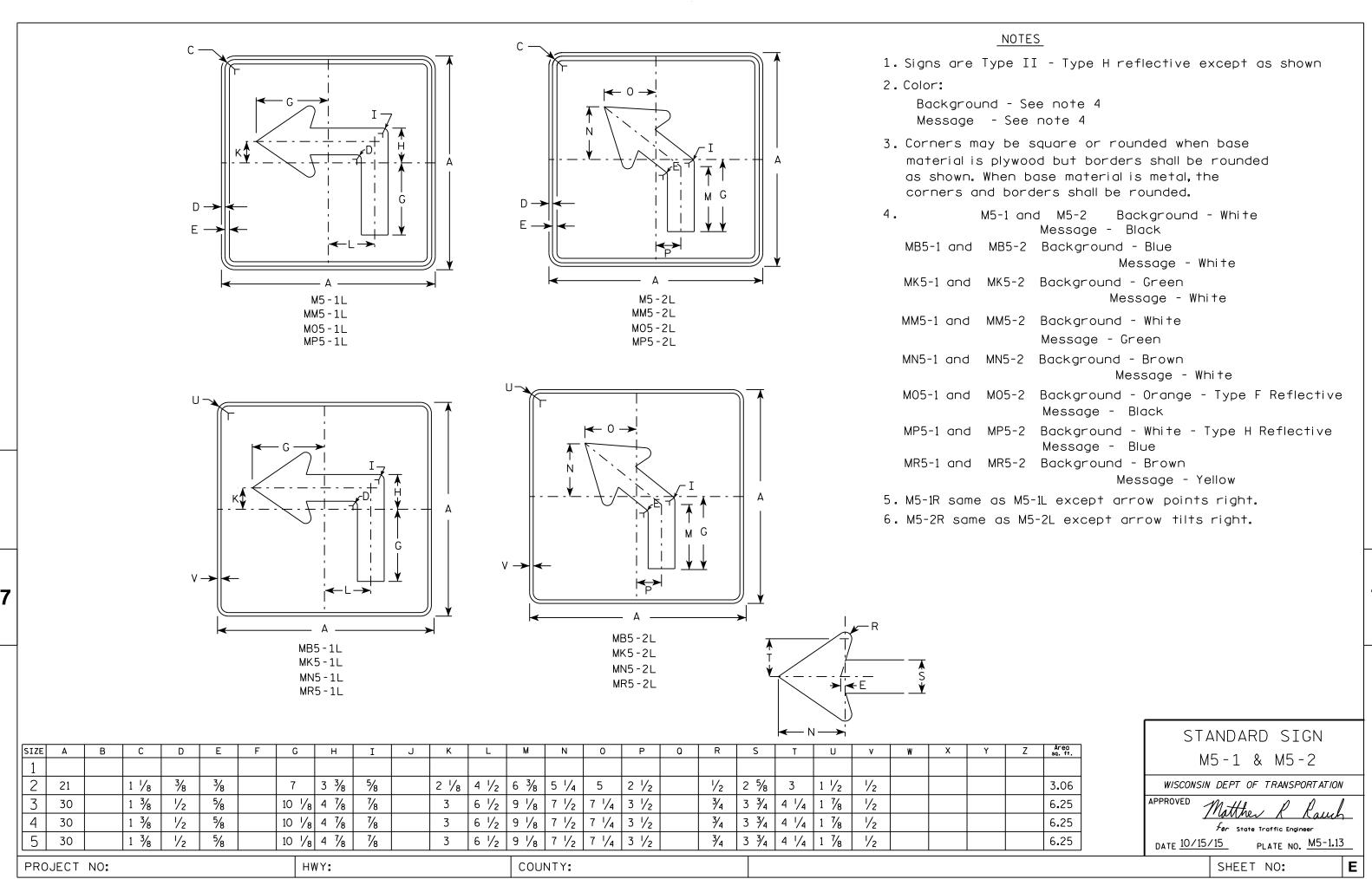
HWY:

PLOT DATE: 30-JUN-2014 15:28

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 4.708937:1.000000

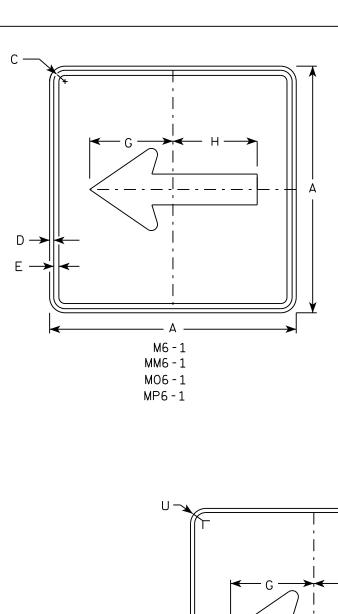


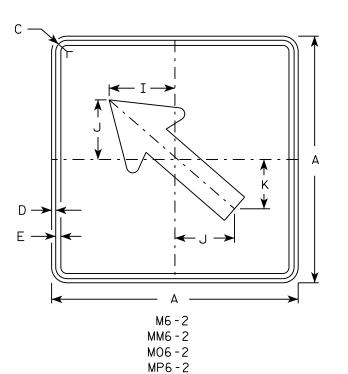
FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

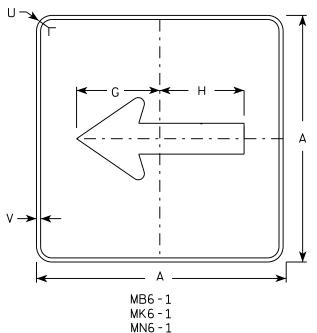
PLOT DATE . 01-DEC-2015 18:07

PINT RY . \$\$ DIOTUSET \$\$ PINT NAMF :

PLOT SCALE . 11 675051.1 000000

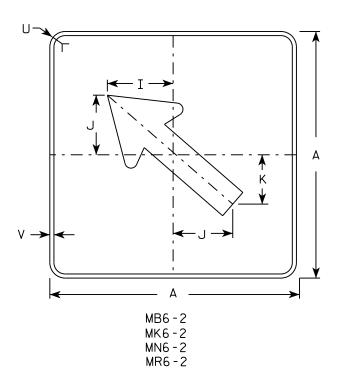






MR6-1

HWY:



#### 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

M06-1 and M06-2 Background - Orange - Type F Reflective

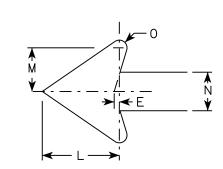
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	٥	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1 1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 %	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 1/8	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 1/8	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 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rawl For State Traffic Engineer

Ε

DATE 10/15/15 PLATE NO. M6-1.15

SHEET NO:

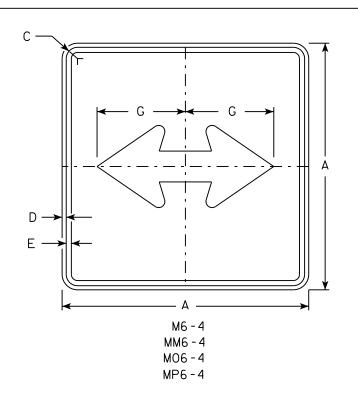
FILE NAME · C·\CAFfiles\Projects\tr stdplote\M61 DCN

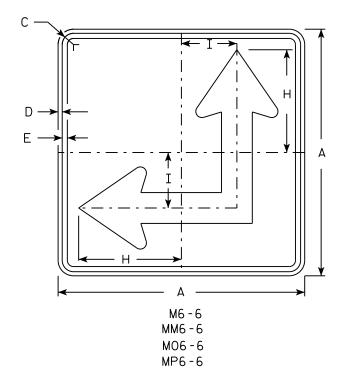
PROJECT NO:

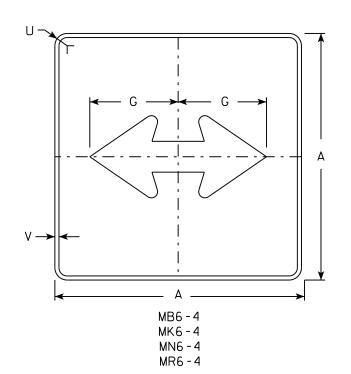
PLOT DATE . 01-DEC-2015 17:57

PIOT RY . \$\$ plotuser \$\$ PIOT NAMF :

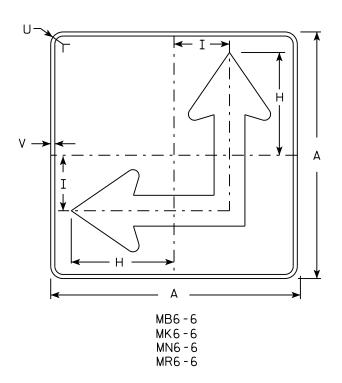
PLOT SCALE . 11 675051.1 000000







HWY:



#### NOTES

- 1. Signs are Type II Type H except as Shown
- 2. Color:

Background - See Note 4 Message - See Note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-4 and M6-6 Background White Message - Black

MB6-4 and MB6-6 Background - Blue

Message - White

MK6-4 and MK6-6 Background - Green

Message - White

and MM6-6 Background - White MM6-4

Message - Green

MN6-4 and MN6-6 Background - Brown

Message - White

M06-4 and M06-6 Background - Orange - Type F Reflective

Message - Black

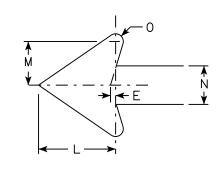
MP6-4 and MP6-6 Background - White

Message - Blue

MR6-4 and MR6-6 Background - Brown

Message - Yellow

5. M6-6R same as M6-6L except arrow points ahead and right.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	a	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
																											==

COUNTY:

STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 10/15/15

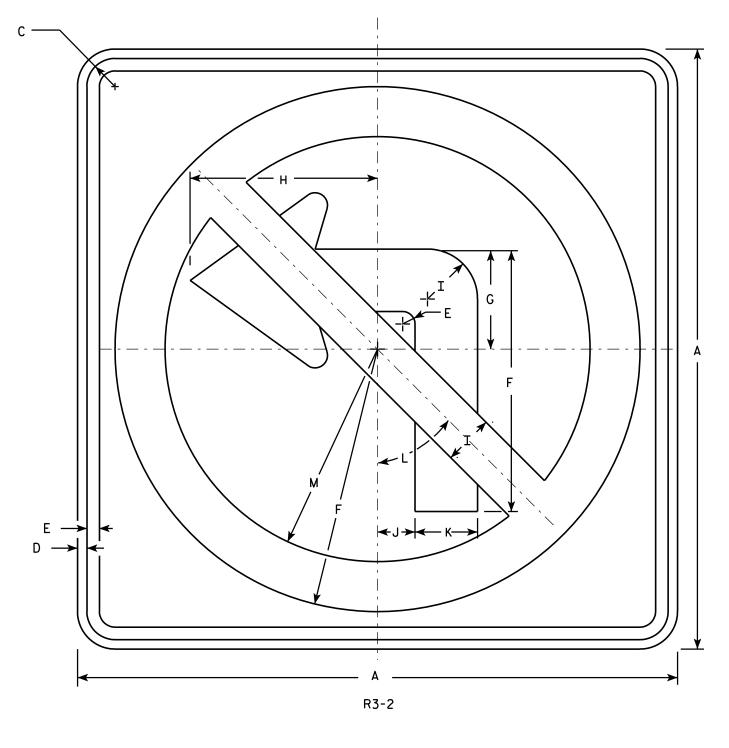
PLATE NO. M6-4.10 Ε

PLOT DATE . 01-DEC-2015 17.58

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000

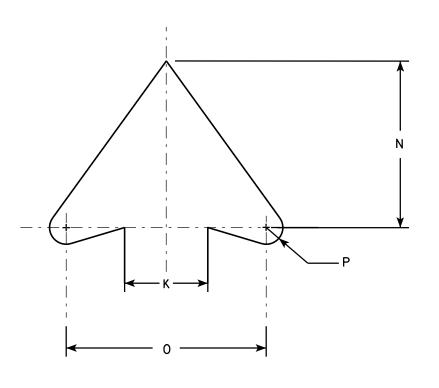
PROJECT NO:



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	₩	X	Y	Z	Area sq. ft.
1	24		1 1/8	3⁄8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	9	1/2											4.0
2M	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

COUNTY:

STANDARD SIGN R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $f_{\it or}$  State Traffic Engineer

DATE 12/08/10

PLATE NO. R3-2.10

SHEET NO:

HWY:

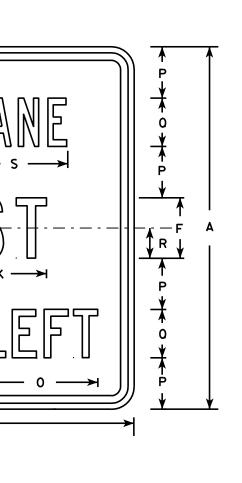
PROJECT NO:

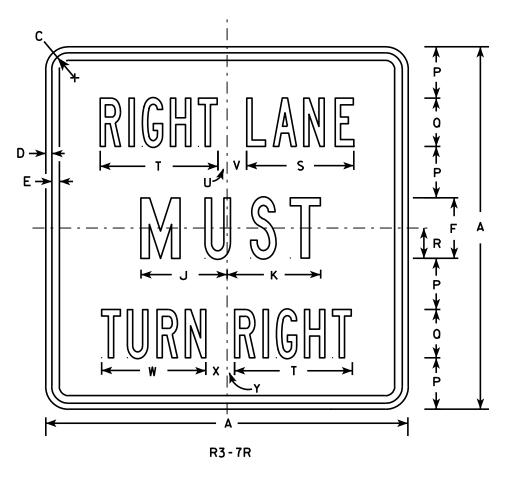
PLOT NAME :

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series Line 1 is Series B. Line 2 is Series C. Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.





SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	V	w	X	Y	Z	Areo sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 %	4 1/4	4	2 1/2	8 %	9 3/4	3/4	1 %	8 %	1 %	5/8		6.25
25	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 %	4 1/4	4	2 1/2	8 1/8	9 3/4	3/4	1 %	8 %	1 %	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 %	4 1/4	4	2 1/2	8 %	9 3/4	3/4	1 %	8 %	1 %	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 %	2	1 1/8	8 3/4	9	13 ½	3 %	1 1/2	12 1/2	5	5	3	10 %	12	7∕8	2 1/4	10 %	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 ½	11 1/2	11 1/8	17 3/4	3 %	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 1/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

COUNTY:

STANDARD SIGN R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

DATE 3/18/2011

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R37.DGN

PROJECT NO:

R3-7L

HWY:

PLOT DATE: 18-MAR-2011 09:43

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 7.945391:1.000000

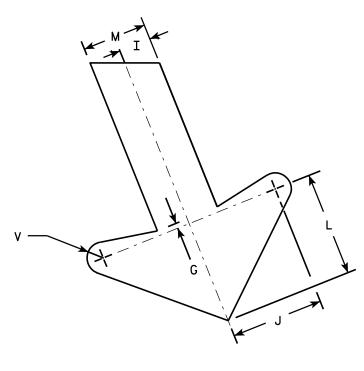
WISDOT/CADDS SHEET 42

PLATE NO. R3-7.3

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series E
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL
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SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Areg sq. ft.
1																									1		
25	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 %	3	2 1/4	10 %	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

COUNTY:

R3-20L

HWY:

М

М

0

STANDARD SIGN R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7 SHEET NO:

PLOT BY: dotsja

PLOT NAME :

PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R320L.DGN

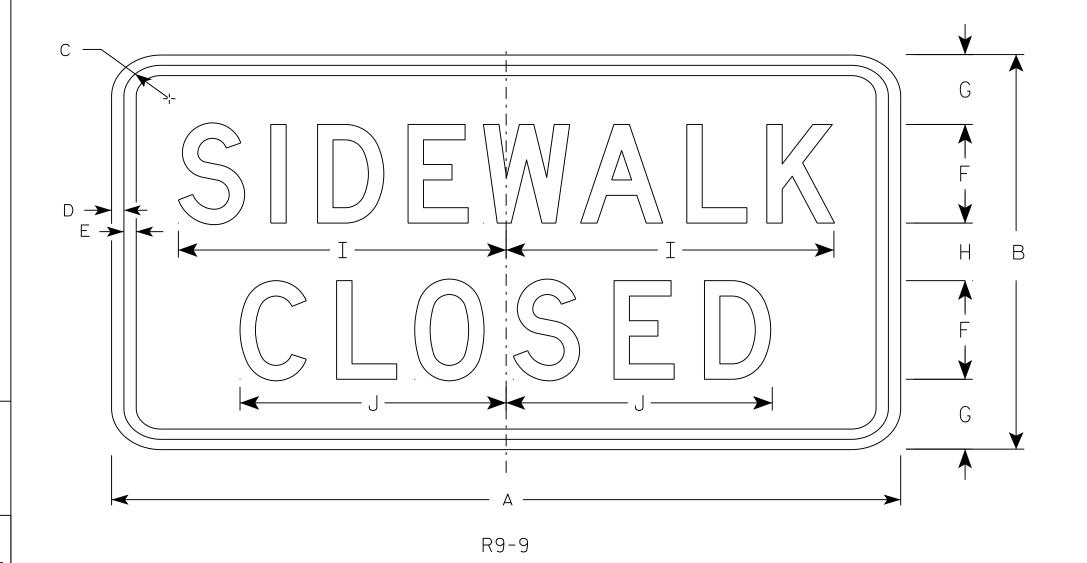
PROJECT NO:

PLOT DATE: 15-OCT-2010 14:45

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.



SIZE A 2S 24 1 3/4 1/2 2 1/8 1 3/4 10 1/2 12 3 8 1/8 2.0 24 1 3/4 1/2 2 1/8 1 3/4 8 1/8 12 10 2.0 1 3/4 3 1/2 30 18 1/2 1/2 3 | 12 1/2 | 10 1/4 3.75

COUNTY:

STANDARD SIGN R9-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Marther R Ray

DATE <u>8/11/16</u>

SHEET NO: R9-9.6

Ε

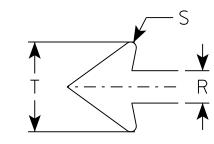
HWY:

PROJECT NO:

- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series C except Size 1 is 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. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.



R9-11

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	O	R	S	Т	U	V	W	Х	Υ	Z	Area sq. ft.
1																											
25	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 %	3 1/2	9 1/4	6 %	5 1/8		1	1/8	2 3/4							2.0
2M	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 %	3 1/2	9 1/4	6 %	5 1/8		1	1/8	2 3/4							2.0
3	30	15	1 1/8	3/8	1/2	2	1 1/2	1 1/2	13	3/4	2	10 1/4	4 5/8	12 3/8	8 1/8	6 1/8		1 1/4	1/4	3 %							3.125
4																											
5																											

COUNTY:

STANDARD SIGN R9-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For 3

PLATE NO. R9-11.3

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R911.DGN

HWY:

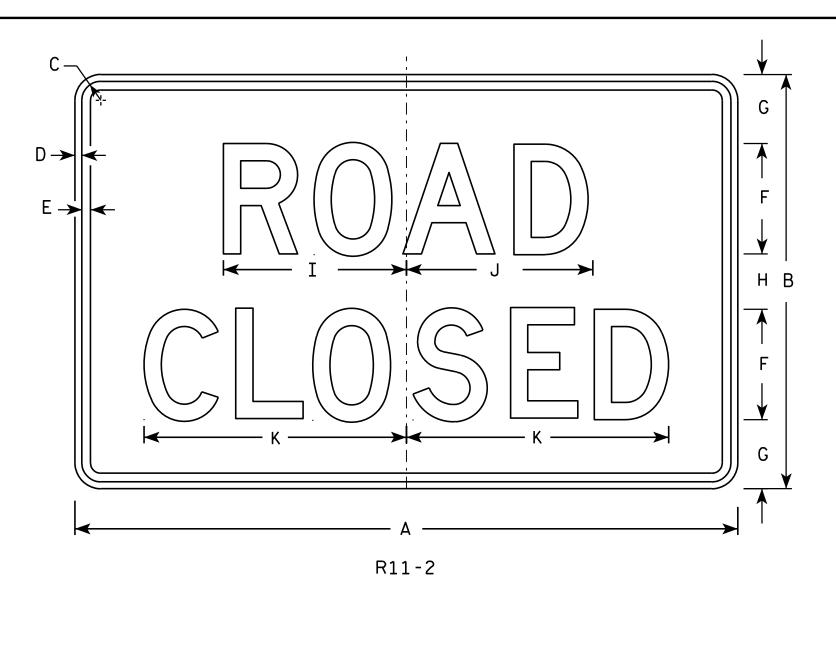
PROJECT NO:

 $D \rightarrow$ 

PLOT DATE: 01-DEC-2016 11:45

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 5.927195:1.000000

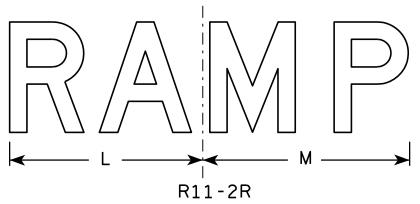


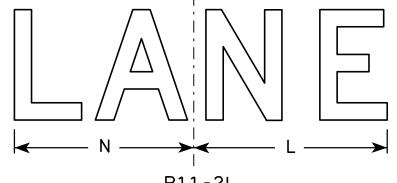
# <u>NOTES</u>

- 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.





R	1	1	-	2	L

PLOT NAME :

SIZ	Έ	A	В	С	D	Ε	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																												
2	S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
21	<b>I</b>	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 ½	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 ½	19	14	15	13													10.0

COUNTY:

STANDARD SIGN R11-2

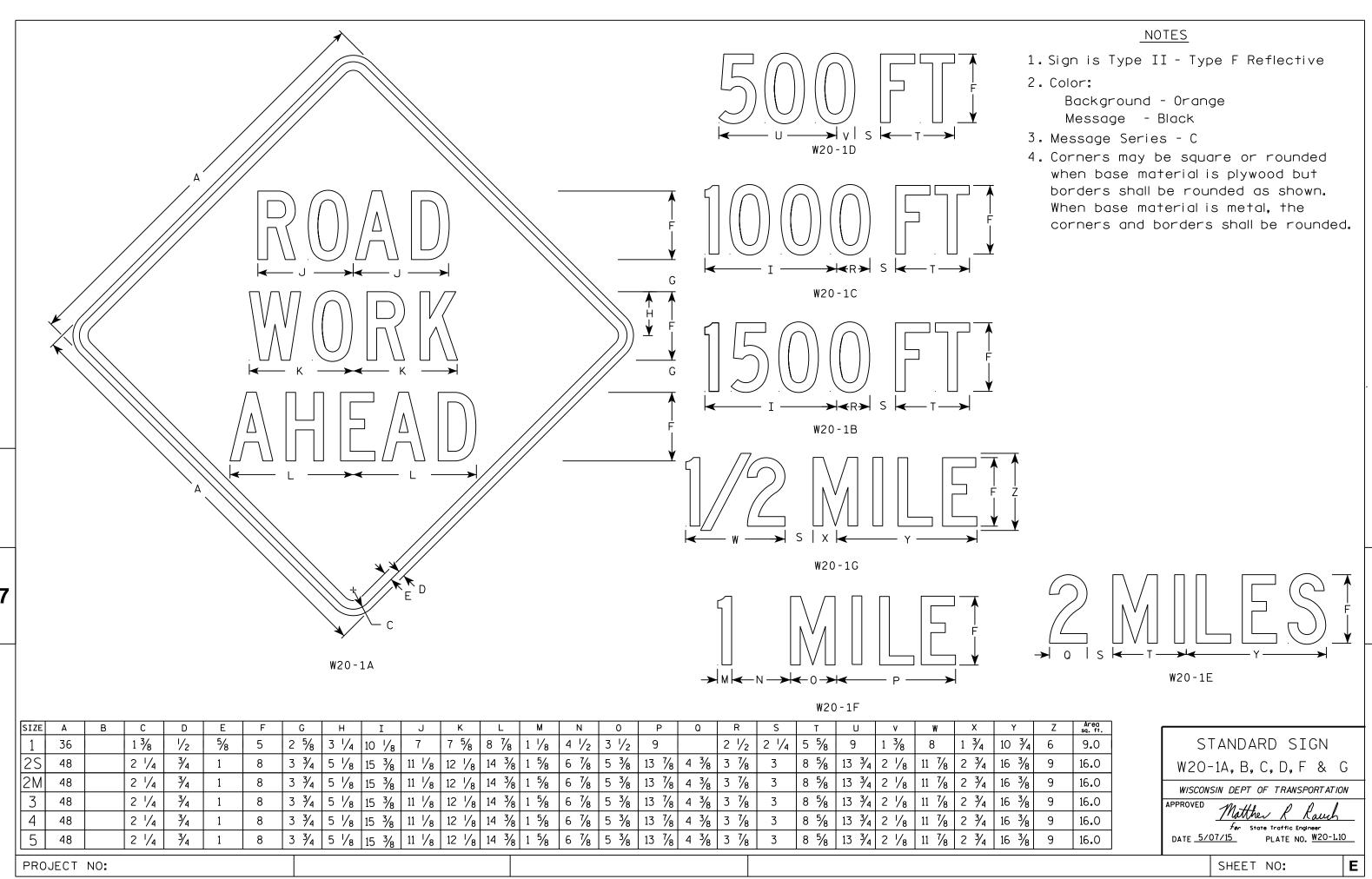
WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2.10

SHEET NO:

HWY:

PROJECT NO:



FILE NAME . C.\CAFfiles\Projects\tr stdolote\W201 DCN

PLOT DATE . 01-DEC-2015 18.24

PIOT RY \* \$\$ plotuser \$\$

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series See Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. " \_\_\_\_\_ LANE" is Series B. All other copy is Series C.

W20-5D

W20-5B

W20-5G

PLOT BY: mscj9h

->I0I← R-		
	W20-5F	

								W20-	5 A																	11 2	20-56
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	v	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	<b>7/8</b>	2 1/2	13 1/8	10 ¾	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 %	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 1/8	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 5/8	7 1/2	13 1/2	3 %	2 3/8	10 %	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 %	1 1/2	6	4 %	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 %	1 1/2	6	4 5/8	12	2 %	7 1/2	13 1/2	3 ¾	2 3/8	10 %	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 <del>%</del>	2 3/8	10 %	16.0

COUNTY:

STANDARD SIGN W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Kauch Fer State Traffic Engineer DATE 3/18/11 PLATE NO. W20-5.11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W205.DGN

PROJECT NO:

HWY:

W20-56A

W20-55A

PLOT DATE: 18-MAR-2011 12:15

PLOT NAME :

PLOT SCALE: 11.918087:1.000000

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

	G
	_ <b>¥</b> B
W01-6	₩

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	M	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾													12.5

COUNTY:

STANDARD SIGN WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

For State Traffic Engineer

13 PLATE NO. <u>W01-6.1</u>

DATE <u>11/18/13</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W016.DGN

HWY:

PROJECT NO:

PLOT DATE : 28-FEB-2014 11:37

PLOT NAME :

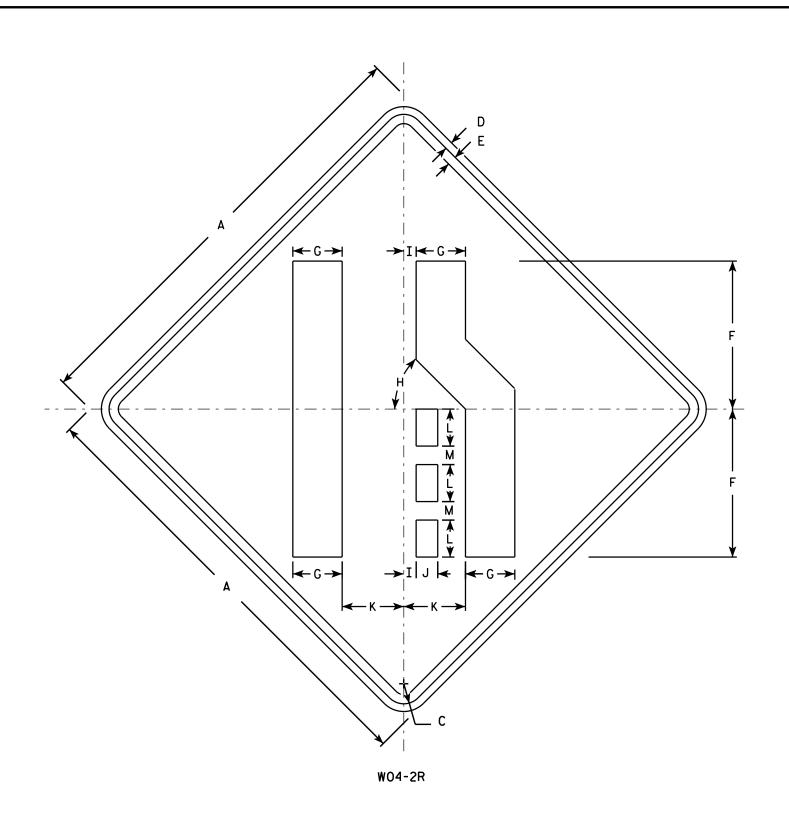
PLOT BY: mscj9h

PLOT SCALE: 5.837526:1.000000

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W04-2L is the same as W04-2R except the symbolis reversed along the vertical centerline.



SIZE 1 % 5/8 3/4 12 45° 1 3/4 5 1 1/2 4 36 3 9.0 2S 2 1/4 5 3/8 45° 1 ¼ 2 ¾ 6 ¾ 3/4 48 16.0 45° 1 ¼ 2 ¾ 6 ¾ 2 1/4 3/4 5 3/8 48 2 16.0 2 1/4 3 48 3/4 5 % 45° | 1 1/4 | 2 3/8 | 6 3/4 2 16.0 2 1/4 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 48 2 16.0 5 2 1/4 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 48 2 16.0

STANDARD SIGN W04 - 2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

ForState Traffic Engineer

DATE 11/20/13 PLATE NO. <u>WO4-2.1</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W042.DGN

PROJECT NO:

PLOT DATE: 20-NOV-2013 11:43

Notes



# Wisconsin Department of Transportation

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