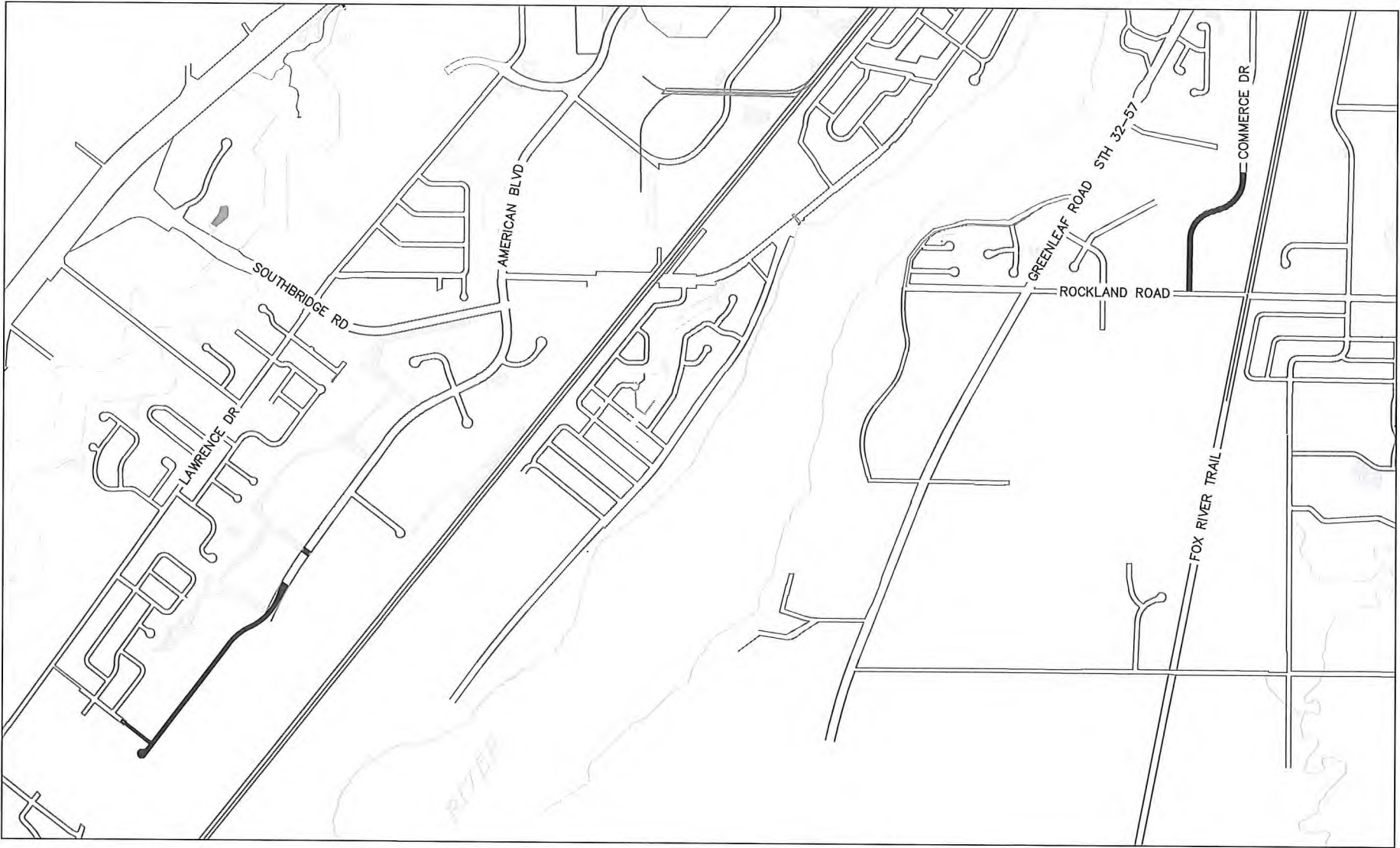


PROJECT# 22-20
AMERICAN BOULEVARD AND COMMERCE
DRIVE CONCRETE PAVING

CITY OF DE PERE



ENGINEER DIVISION
925 S. SIXTH ST
DE PERE, WI 54115



SITE LOCATION MAP
N.T.S.



SHEET NO.	DESCRIPTION
G001	TITLE SHEET
G002	STANDARD ABBREVIATION & SYMBOLS
G003-G004	AMERICAN BLVD TYPICAL SECTIONS
G005	COMMERCE DR TYPICAL SECTIONS
C101 - C108	AMERICAN BLVD PLAN AND PROFILE SHEETS
C109 - C113	COMMERCE DR PLAN AND PROFILE SHEETS
C401 - C402	AMERICAN BLVD ALIGNMENT & BENCHMARKS
C403	AMERICAN BLVD STAGING PLAN
C404 - C405	AMERICAN BLVD EROSION CONTROL
C406 - C407	AMERICAN BLVD GRADES
C408 - C414	AMERICAN BLVD TRAFFIC CONTROL
C415	COMMERCE DR ALIGNMENT & BENCHMARKS
C416	COMMERCE DR EROSION CONTROL
C417 - C419	COMMERCE DR TRAFFIC CONTROL
C420	AMERICAN BLVD PAVEMENT MARKING & SIGNAGE
E101 - E102	AMERICAN BLVD STREET LIGHTING
E103	COMMERCE DR STREET LIGHTING
E501 - E503	ELECTRICAL DETAILS
C501 - C506	CONSTRUCTION DETAILS

CITY OF DE PERE
BOARD OF PUBLIC WORKS

2/10/2022	<i>E. P. Rakers</i>
DATE	CITY ENGINEER
2/10/22	<i>James M. Dolan</i>
DATE	CITY ADMINISTRATOR
2/10/22	<i>John J. B...</i>
DATE	MAYOR

STAMPS:



LIST OF STANDARD ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC	N	NORTH
AGGR	AGGREGATE	NB	NORTHBOUND
AH	AHEAD	NC	NORMAL CROWN
ASPH	ASPHALT	NE	NORTHEAST
B/B	BACK TO BACK	NO	NUMBER
BARR	BARRICADE	NTS	NOT TO SCALE
BC	BACK OF CURB	NW	NORTHWEST
BK	BACK	O	OIL
BL	BASELINE	O&C	OIL AND CHIP
BLDG	BUILDING	OBLIT	OBLITERATE
BM	BENCHMARK	OD	OUTSIDE DIAMETER
BOW	BACK OF SIDEWALK	PC	POINT OF CURVATURE
BSMT	BASEMENT	PCC	POINT OF COMPOUND CURVE
C	CUT	PCC	PORTLAND CEMENT CONCRETE
C&G	CURB AND GUTTER	PED	PEDESTAL
C/C	CENTER TO CENTER	PLE	PERMANENT LIMITED EASEMENT
CABC	CRUSHED AGGREGATE BASE COURSE	PVMT	PAVEMENT
CB	CATCH BASIN	PE	PRIVATE ENTRANCE
CE	CONSTRUCTION ENTRANCE	PI	POINT OF INTERSECTION
CI	CAST IRON PIPE	PJF	PRE-FORMED JOINT FILLER
CL	CENTERLINE	PL	PROPERTY LINE
CMP	CORRUGATED METAL PIPE	POC	POINT OF CURVE
CNTY	COUNTY	POT	POINT ON TANGENT
CO	CLEANOUT	PP	POLYETHYLENE
CONC	CONCRETE	PRC	POINT OF REVERSE CURVATURE
CONSTR	CONSTRUCTION	PROJ	PROJECT
CONSTR JT	CONSTRUCTION JOINT	PROP	PROPOSED
CORP	CORPORATION	PSI	POUND PER SQUARE INCH
CP	CONTROL POINT	PT	POINT OF TANGENCY
CTH	COUNTY TRUNK HIGHWAY	PVC	POLYVINYL CHLORIDE
CTRL JT	CONTROL JOINT	R	RANGE OR RADIUS
CTV	CABLE TV	RCP	REINFORCED CONCRETE PIPE
CY	CUBIC YARD	REBAR	REINFORCEMENT BAR
D	DEPTH	REL	RELOCATE
DIA	DIAMETER	REM	REMAINING
DI	DUCTILE IRON PIPE	REQD	REQUIRED
DISCH	DISCHARGE	RL	REFERENCE LINE
DW	DRIVEWAY	ROW	RIGHT OF WAY
E	EAST (SEE ELEC BELOW)	RP	REFERENCE POINT
EA	EACH	RR	RAILROAD
EB	EASTBOUND	RT	RIGHT
EBS	EXCAVATION BELOW SUBGRADE	RW	RETAINING WALL
ECS	EXTERNAL CHIMNEY SEAL	S	SOUTH
EL	ELEVATION	SALV	SALVAGE
ELEC	ELECTRIC (E WHEN USED IN LINE STYLE)	SAN	SANITARY
EMB	EMBANKMENT	SB	SOUTHBOUND
ENTR	ENTRANCE	SDWK	SIDEWALK
EP	EDGE OF PAVEMENT	SE	SOUTHEAST
EW	ENDWALL	SF	SQUARE FEET
EXC	EXCAVATION	SHLDR	SHOULDER
EXIST	EXISTING	SY	SQUARE YARD
F	FILL	SS	STORM SEWER
F/F	FACE TO FACE	SSD	STOPPING SIGHT DISTANCE
FDN	FOUNDATION	ST	STREET
FE	FIELD ENTRANCE	STA	STATION
FERT	FERTILIZER	STD	STANDARD
FIN GR	FINISHED GRADE	STH	STATE HIGHWAY TRUNK
FL	FLOWLINE	STM	STORM
FO	FIBER OPTIC	STP	SEWAGE TREATMENT PLANT
FOW	FRONT OF SIDEWALK	STRUCT	STRUCTURE OR STRUCTURAL
FT	FOOT	SW	SOUTHWEST
FTG	FOOTING	TAN	TANGENT
G	GAS	T	TOWN (T WHEN USED FOR TELEPHONE LINE)
GV	GAS VALVE	TEL	TELEPHONE
GW	GUY WIRE	TEMP	TEMPORARY
HDPE	HIGH DENSITY POLYETHYLENE	TLE	TEMPORARY LIMITED EASEMENT
HR	HANDICAP RAMP	TOC	TOP OF CURB
HSE	HOUSE	TOW	TOP OF WATER
HT	HEIGHT	TRANS	TRANSITION
HYD	HYDRANT	TYP	TYPICAL
I	INTERSECTION ANGLE	UG	UNDERGROUND
ICS	INTERNAL CHIMNEY SEAL	USH	US HIGHWAY
ID	INSIDE DIAMETER	VC	VERTICAL CURVE
IN	INCH	VERT	VERTICAL
INL	INLET	VOL	VOLUME
INTERS	INTERSECTION	VPC	VERTICAL POINT OF CURVATURE
INV	INVERT	VPI	VERTICAL POINT OF INTERSECTION
IP	IRON PIPE OR PIN	VPRC	VERTICAL POINT OF REVERSE CURVE
JCT	JUNCTION	VPT	VERTICAL POINT OF TANGENCY
L	LENGTH (OF CURVE)	W	WEST
LC	LONG CHORD OF CURVE	WB	WESTBOUND
LP	LIGHTPOLE	WM	WATERMAIN
LS	LIFT STATION OR LUMP SUM	WSO	WATER SHUTOFF VALVE
LT	LEFT	WTP	WATER TREATMENT PLANT
MAINT	MAINTENANCE	WV	WATER VALVE
MATL	MATERIAL	WWTP	WASTE WATER TREATMENT PLANT
MB	MAILBOX	YD	YARD
MH	MANHOLE		
MP	MARKER POST		

MAPPING & TOPOGRAPHY SYMBOLOGY

DESCRIPTION	SYMBOL	
	EXISTING	PROPOSED
BENCHMARK		
BUSH		
CATCH BASIN		
CABLE TV BOX		
CONTROL POINT		
ELECTRICAL BOX		
EROSION CONTROL - INLET		
FIELD INLET		
GAS VALVE		
HEDGE		
HYDRANT		
IRON PIPE		
LIGHTPOLE		
MAILBOX		
MANHOLE ELECTRIC		
MANHOLE SANITARY		
MANHOLE STORM		
MONITORING WELL		
POWER POLE		
LIGHT POLE		
SIGN		
SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE		
SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE		
SOIL BORING		
STUMP		
TELEPHONE MANHOLE		
TELEPHONE PEDESTAL		
TREE		
WELL		
WATER SERVICE VALVE		
BUTTERFLY WATER VALVE		
WATER VALVE		

GENERAL CONSTRUCTION NOTES:

1. ALL ELEVATIONS ARE REFERENCED TO NAVD 88.
2. THE WORK UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE CITY OF DE PERE, CURRENT CONSTRUCTION SPECIFICATIONS AND THESE SPECIAL PROVISIONS AND PLANS, AND THE LATEST ADDITION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION SPECIFICATIONS, LATEST EDITION, WHERE REFERENCED IN THE CITY SPECIFICATIONS.
3. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL CONFIRM TO THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES CONSTRUCTION SITE EROSION CONTROL AND TECHNICAL STANDARDS.
4. EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES. WHETHER SHOWN OR NOT, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITIES OWNERS SHALL BE NOTIFIED BY THE CONTRACTOR 72 HOURS PRIOR TO EXCAVATION.

MAPPING & TOPOGRAPHY SYMBOLOGY

DESCRIPTION	SYMBOL	
	PLAN	
EXISTING SANITARY SEWER LINE	(SIZE AND MATERIAL) San	
PROPOSED SANITARY SEWER LINE	100'-8" PVC SAN San	
EXISTING STORM SEWER LINE	(SIZE AND MATERIAL) ST	
PROPOSED STORM SEWER LINE	100'-8" PVC STM ST	
EXISTING WATER MAIN LINE	(SIZE AND MATERIAL) W	
PROPOSED WATER MAIN LINE	100'-8" PVC WM (TEE-BEND) W	
EXISTING ELECTRICAL LINE	E	
EXISTING GAS MAIN LINE	G	
EXISTING TELEPHONE LINE	T	
EXISTING CABLE TV LINE	TV	
EXISTING SANITARY LATERAL	San	
EXISTING WATER SERVICE	W	
RIGHT OF WAY	ROW	
PROPERTY LINE	PL	
EASEMENT	ESM	
SILT FENCE EROSION CONTROL		
EXISTING FIBER OPTIC	FO	
EXISTING MAJOR CONTOUR	615	
EXISTING MINOR CONTOUR	612	
PROPOSED MAJOR CONTOUR	615	
PROPOSED MINOR CONTOUR	612	

PROFILE

EXISTING SANITARY SEWER LINE	(SIZE AND MATERIAL)
PROPOSED SANITARY SEWER LINE	100'-8" PVC SAN @ 0.40%
EXISTING STORM SEWER LINE	(SIZE AND MATERIAL)
PROPOSED STORM SEWER LINE	100'-8" PVC STM @ 1.0%
EXISTING WATER MAIN LINE	(SIZE AND MATERIAL)
PROPOSED WATER MAIN LINE	PROPOSE 8" PVC WM

PATCH SYMBOLS

ASPHALTIC CONCRETE PAVEMENT		CRUSHED AGGREGATE BASE COURSE	
PORTLAND CEMENT CONCRETE			

CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

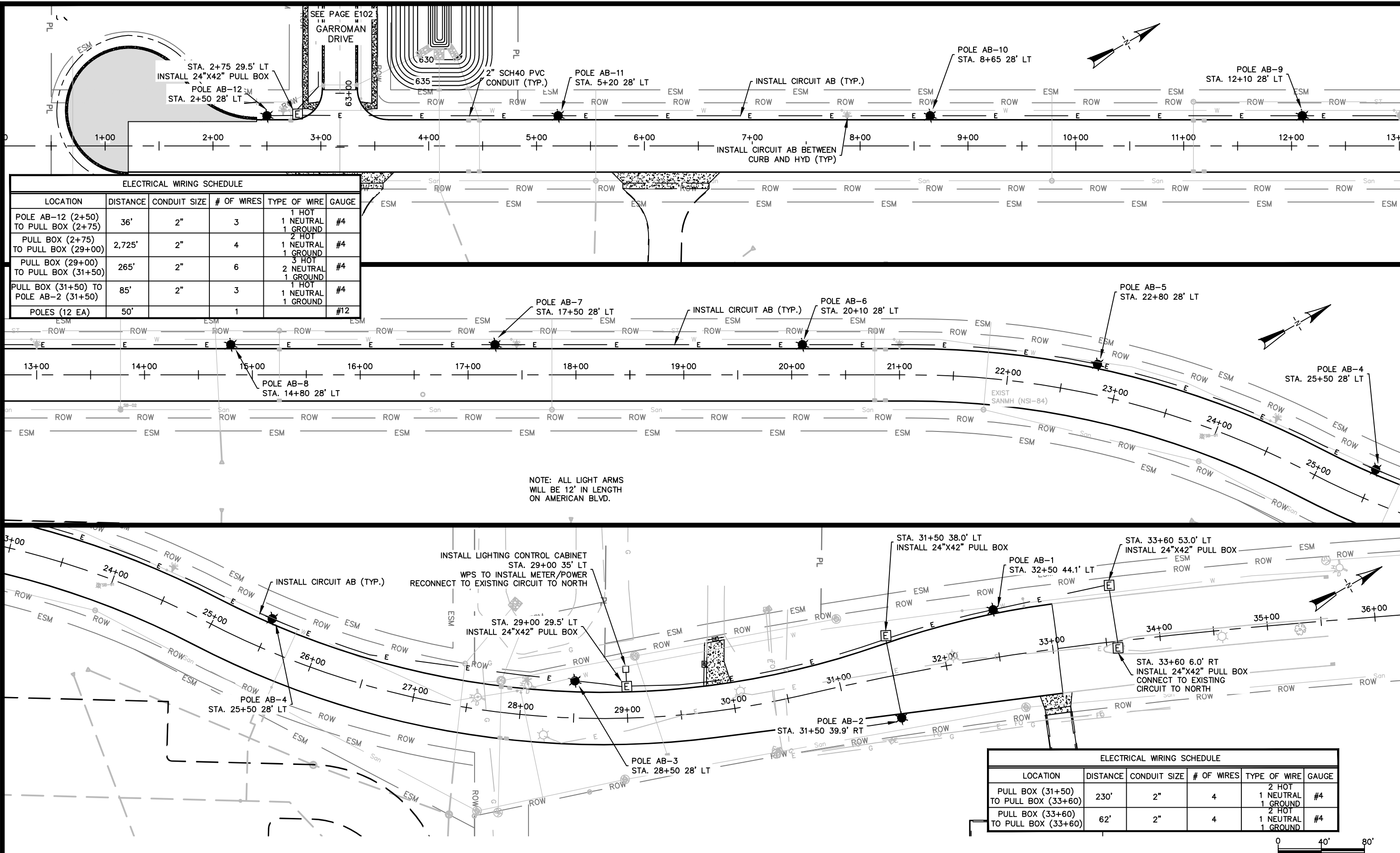
OFFICE 920-339-4060 FAX 920-339-4071

STANDARD ABBREVIATIONS
AND SYMBOLS

NAME:AMERICAN BLVD AND
COMMERCE DR
CONCRETE PAVING

PROJECT # 22-20

	BY	DATE	REVISIONS / ISSUES				PAGE NO.
			NO.	DATE	BY	REMARKS	
SURVEYED							G002
DRAWN	KAD	10-2018					
DESIGNED							
CHECKED							



ELECTRICAL WIRING SCHEDULE					
LOCATION	DISTANCE	CONDUIT SIZE	# OF WIRES	TYPE OF WIRE	GAUGE
POLE AB-12 (2+50) TO PULL BOX (2+75)	36'	2"	3	1 HOT 1 NEUTRAL 1 GROUND	#4
PULL BOX (2+75) TO PULL BOX (29+00)	2,725'	2"	4	1 HOT 1 NEUTRAL 1 GROUND	#4
PULL BOX (29+00) TO PULL BOX (31+50)	265'	2"	6	2 HOT 2 NEUTRAL 1 GROUND	#4
PULL BOX (31+50) TO PULL BOX (33+60)	85'	2"	3	1 HOT 1 NEUTRAL 1 GROUND	#4
POLES (12 EA)	50'		1		#12

ELECTRICAL WIRING SCHEDULE					
LOCATION	DISTANCE	CONDUIT SIZE	# OF WIRES	TYPE OF WIRE	GAUGE
PULL BOX (31+50) TO PULL BOX (33+60)	230'	2"	4	2 HOT 1 NEUTRAL 1 GROUND	#4
PULL BOX (33+60) TO PULL BOX (33+60)	62'	2"	4	2 HOT 1 NEUTRAL 1 GROUND	#4

NOTE: ALL LIGHT ARMS
WILL BE 12' IN LENGTH
ON AMERICAN BLVD.



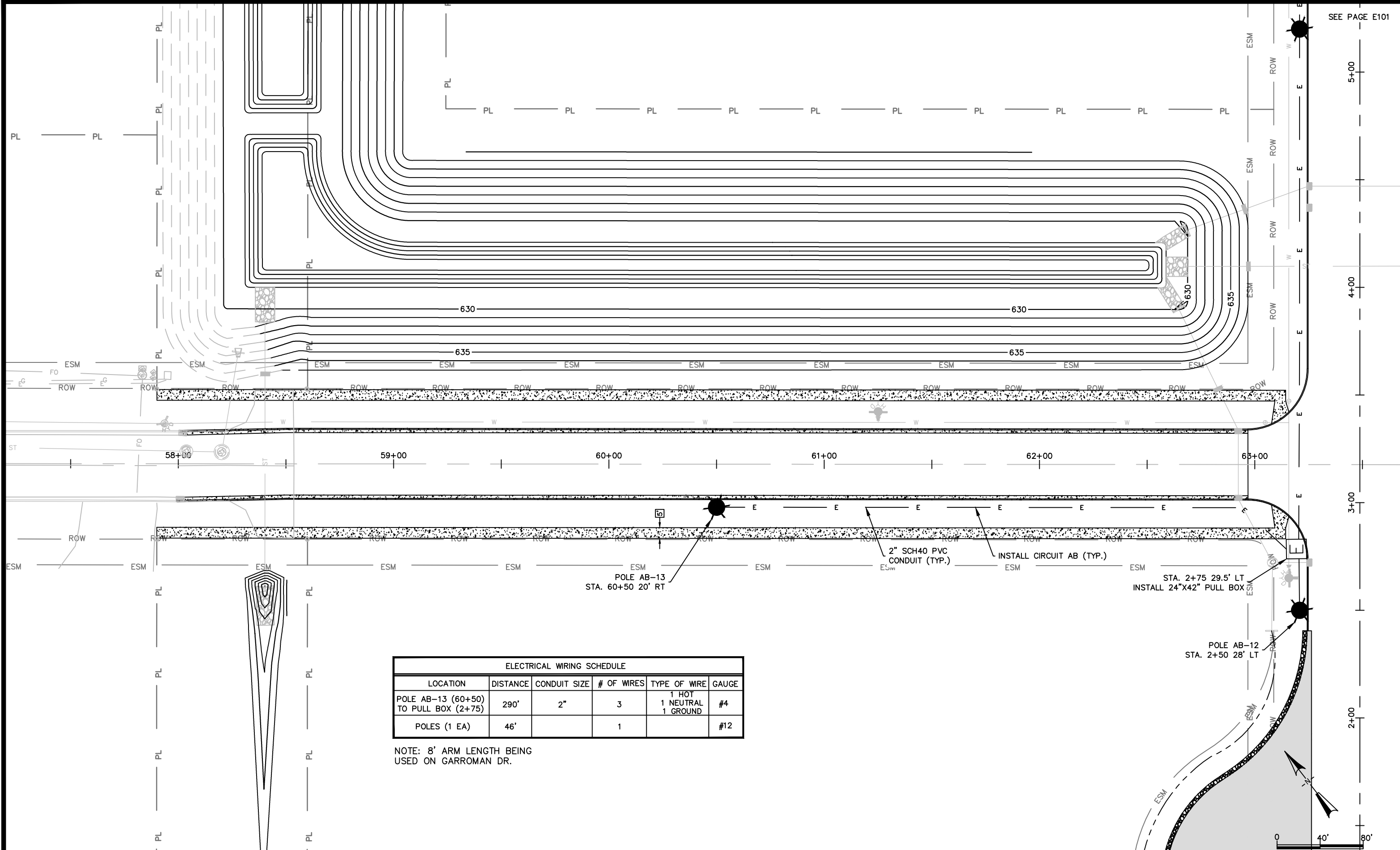
CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115
OFFICE 920-339-4061 FAX 920-339-4071

AMERICAN BOULEVARD
STREET LIGHTING INSTALLATION

NAME: AMERICAN BLVD AND
COMMERCE DR
CONCRETE PAVING
PROJECT # 22-20

		REVISIONS / ISSUES			
NO.	DATE	BY	REMARKS		
SURVEYED	REL	03-2021			
DRAWN	SRL	08-2021			
DESIGNED	SRL	09-2021			
CHECKED	EPR	02-2022			



ELECTRICAL WIRING SCHEDULE					
LOCATION	DISTANCE	CONDUIT SIZE	# OF WIRES	TYPE OF WIRE	GAUGE
POLE AB-13 (60+50) TO PULL BOX (2+75)	290'	2"	3	1 HOT 1 NEUTRAL 1 GROUND	#4
POLES (1 EA)	46'		1		#12

NOTE: 8' ARM LENGTH BEING
USED ON GARROMAN DR.



CITY OF DE PERE

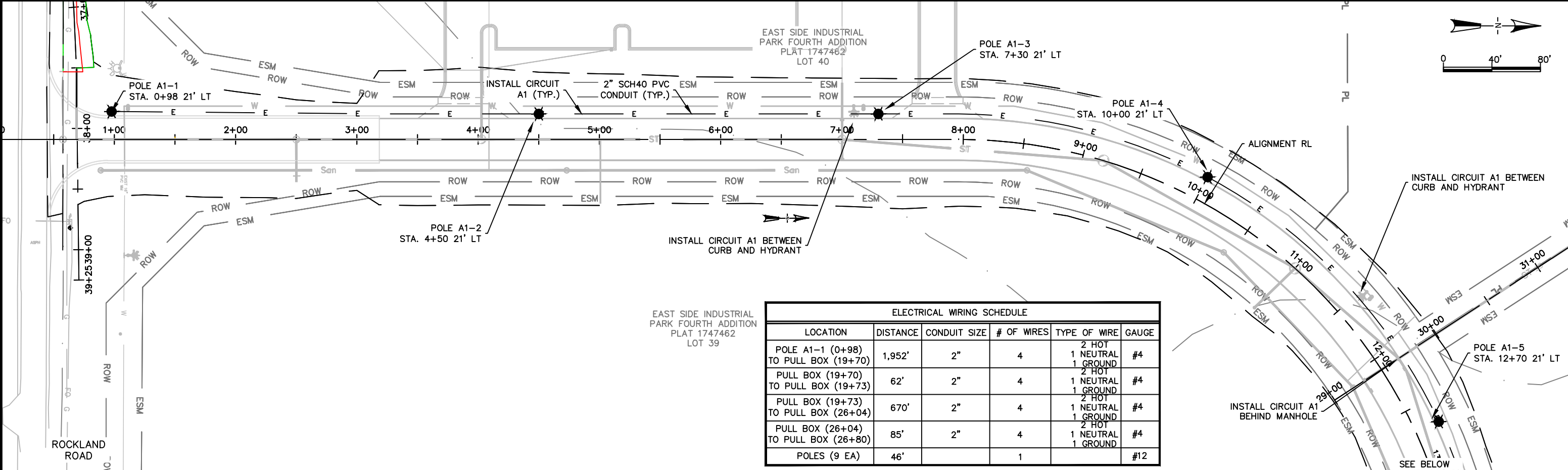
ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115
OFFICE 920-339-4061 FAX 920-339-4071

GARROMAN DRIVE
STREET LIGHTING INSTALLATION

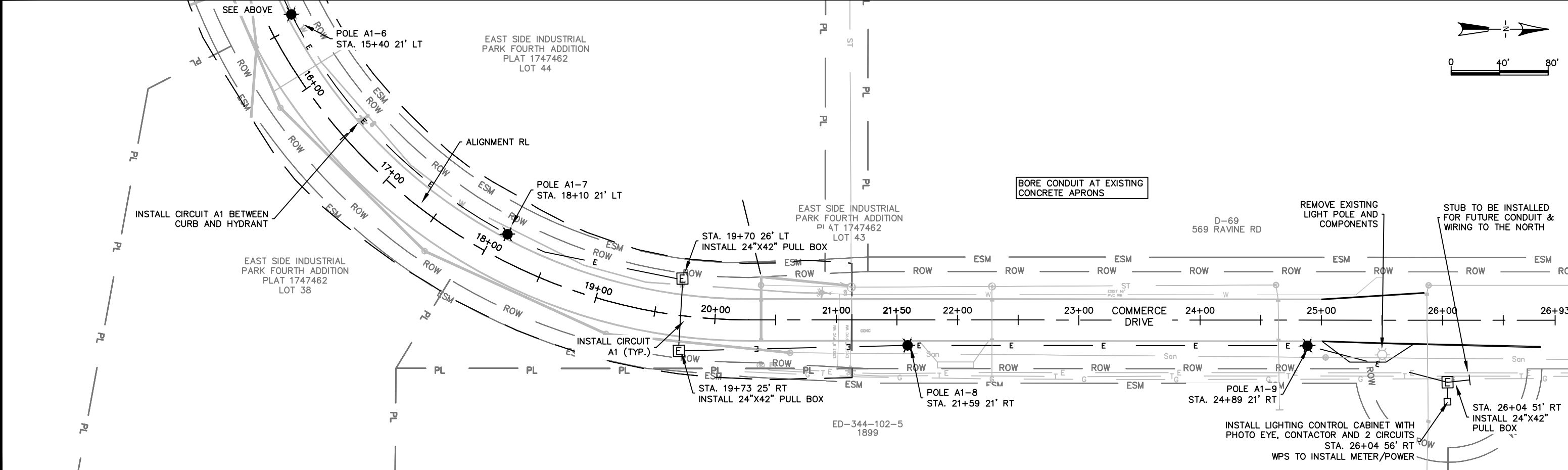
NAME:AMERICAN BLVD AND
COMMERCE DR
CONCRETE PAVING
PROJECT # 22-20

	BY	DATE
SURVEYED	REL	03-2021
DRAWN	SRL	08-2021
DESIGNED	SRL	09-2021
CHECKED	EPR	02-2022

REVISIONS / ISSUES			
NO.	DATE	BY	REMARKS



ELECTRICAL WIRING SCHEDULE					
LOCATION	DISTANCE	CONDUIT SIZE	# OF WIRES	TYPE OF WIRE	GAUGE
POLE A1-1 (0+98) TO PULL BOX (19+70)	1,952'	2"	4	2 HOT 1 NEUTRAL 1 GROUND	#4
PULL BOX (19+70) TO PULL BOX (19+73)	62'	2"	4	2 HOT 1 NEUTRAL 1 GROUND	#4
PULL BOX (19+73) TO PULL BOX (26+04)	670'	2"	4	2 HOT 1 NEUTRAL 1 GROUND	#4
PULL BOX (26+04) TO PULL BOX (26+80)	85'	2"	4	2 HOT 1 NEUTRAL 1 GROUND	#4
POLES (9 EA)	46'		1		#12



SDD 9B16 Pull Boxes Non-Conductive

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

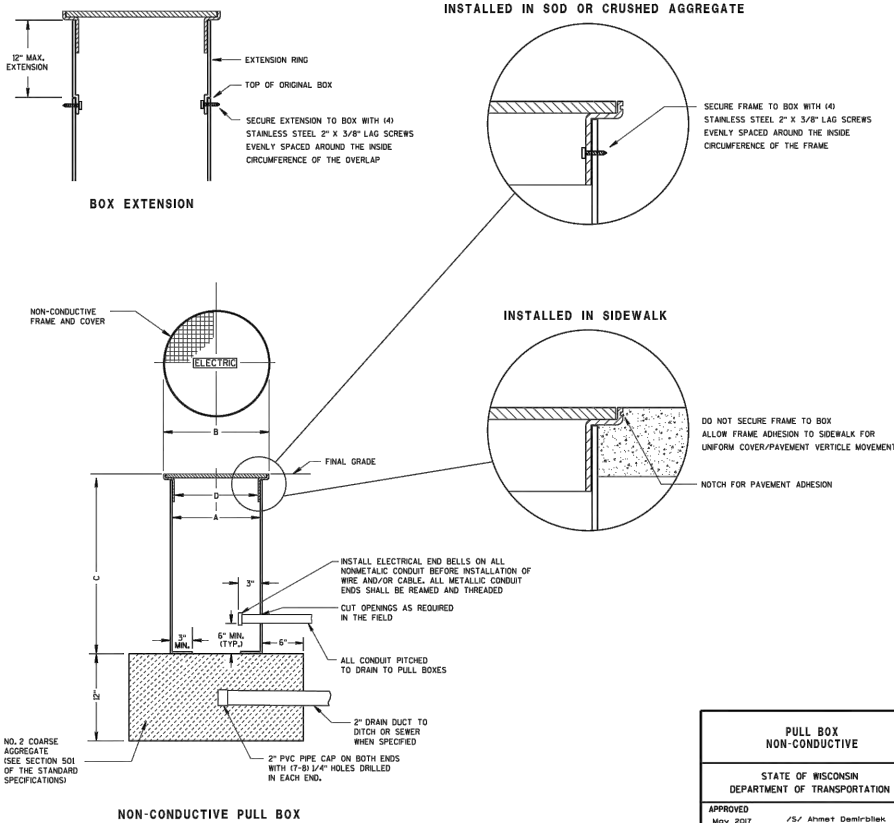
DIMENSION IN INCHES	NON-CONDUCTIVE PULL BOX	
BOX DIAMETER ** A	24	24
BOX OVERALL OUTSIDE DIAMETER B	27	27
BOX LENGTH C	36	42
FRAME OPENING D	22 1/2	22 1/2
WEIGHT IN POUNDS *		
COVER	50	50
BOX ONLY	75	85

* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 50 LBS INDIVIDUALLY.

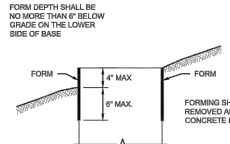
** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT. ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 1 LOADING AS SPECIFIED IN AASHTO 17. PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGER THAN PERMIT PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER. ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DISCONTINUITIES LESS THAN 1/4". COVER SHALL BE MAGNETICALLY LOCATABLE. BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH. ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4". THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER. ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE. ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE. WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE. LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WIDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.

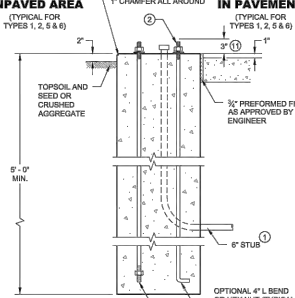


SDD 9C2 Concrete Bases, Types 1, 2, 5 & 6



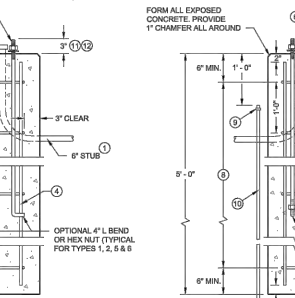
QUANTITY REQUIREMENTS	CONCRETE BASE TYPE	
APPROX. CUBIC YARDS OF CONCRETE	1	2
LBS. OF HOOP BAR STEEL	0.40	0.57
LBS. OF VERTICAL BAR STEEL	NONE	23
		18

HALF SECTION IN UNPAVED AREA



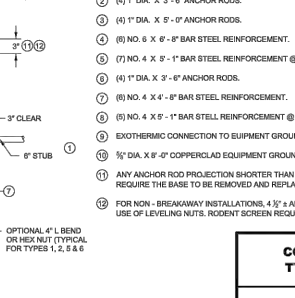
TYPE 1

HALF SECTION IN PAVEMENT



TYPE 2

TYPE 5 & 6



CONCRETE BASES

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT. BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER. TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL. CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS. THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 4\"/>

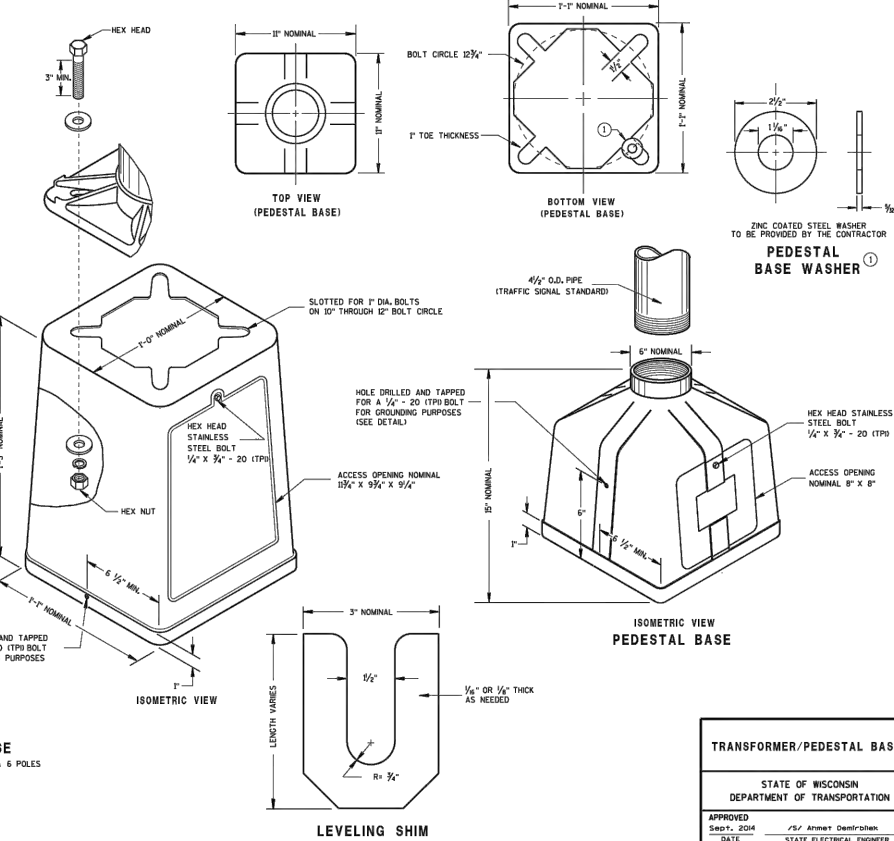
CONCRETE BASES TYPES 1, 2, 5, & 6

APPROVED	DATE	STATE ELECTRICAL ENGINEER
APPROVED	DATE	STATE ELECTRICAL ENGINEER

SDD 9c3 Transformer/Pedestal Bases

GENERAL NOTES

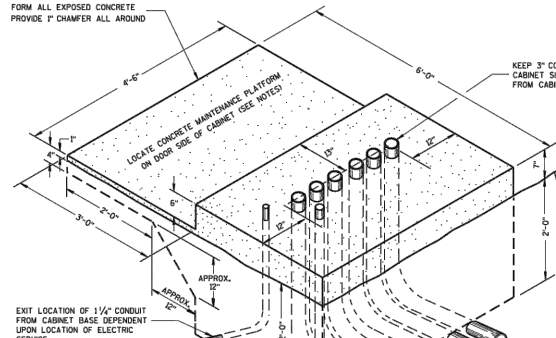
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT. FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1\"/>



TRANSFORMER/PEDESTAL BASES

APPROVED	DATE	STATE ELECTRICAL ENGINEER
APPROVED	DATE	STATE ELECTRICAL ENGINEER

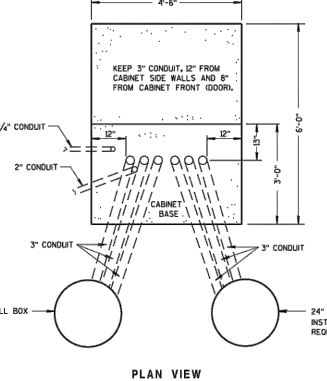
SDD 9c6 Concrete Control Cabinet Base, Type 9, Special



ISOMETRIC VIEW TYPE 9, SPECIAL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT. INSTALL FOUR 1/2\"/>



CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

APPROVED	DATE	STATE ELECTRICAL ENGINEER
APPROVED	DATE	STATE ELECTRICAL ENGINEER



CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115
OFFICE 920-339-4061 FAX 920-339-4071

CONSTRUCTION DETAILS ELECTRICAL

NAME: AMERICAN BLVD AND COMMERCE DR
PROJECT # 22-20

SURVEYED	BY	DATE
DRAWN		
DESIGNED		
CHECKED	EPR	02-2022

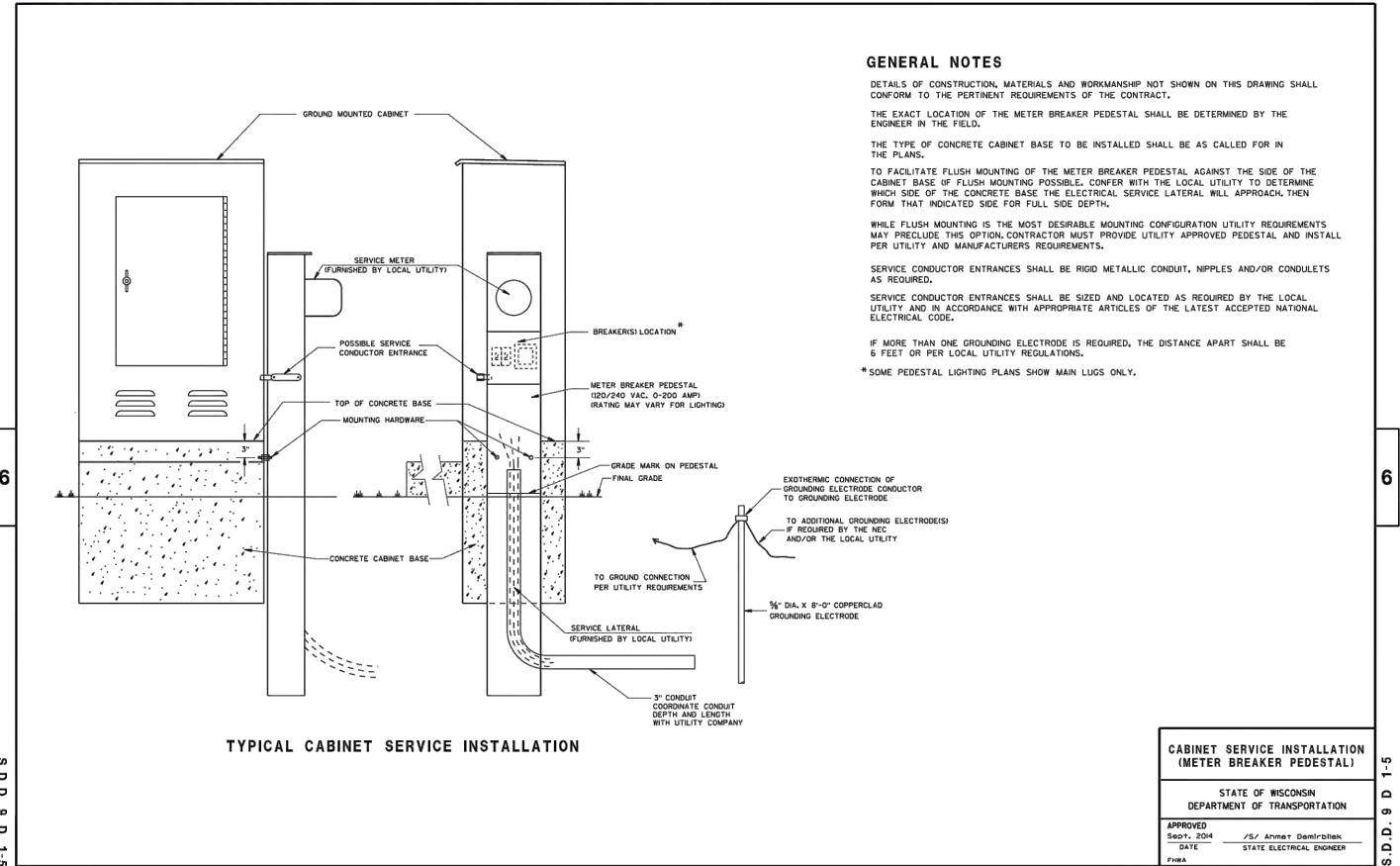
REVISIONS / ISSUES

NO.	DATE	BY	REMARKS

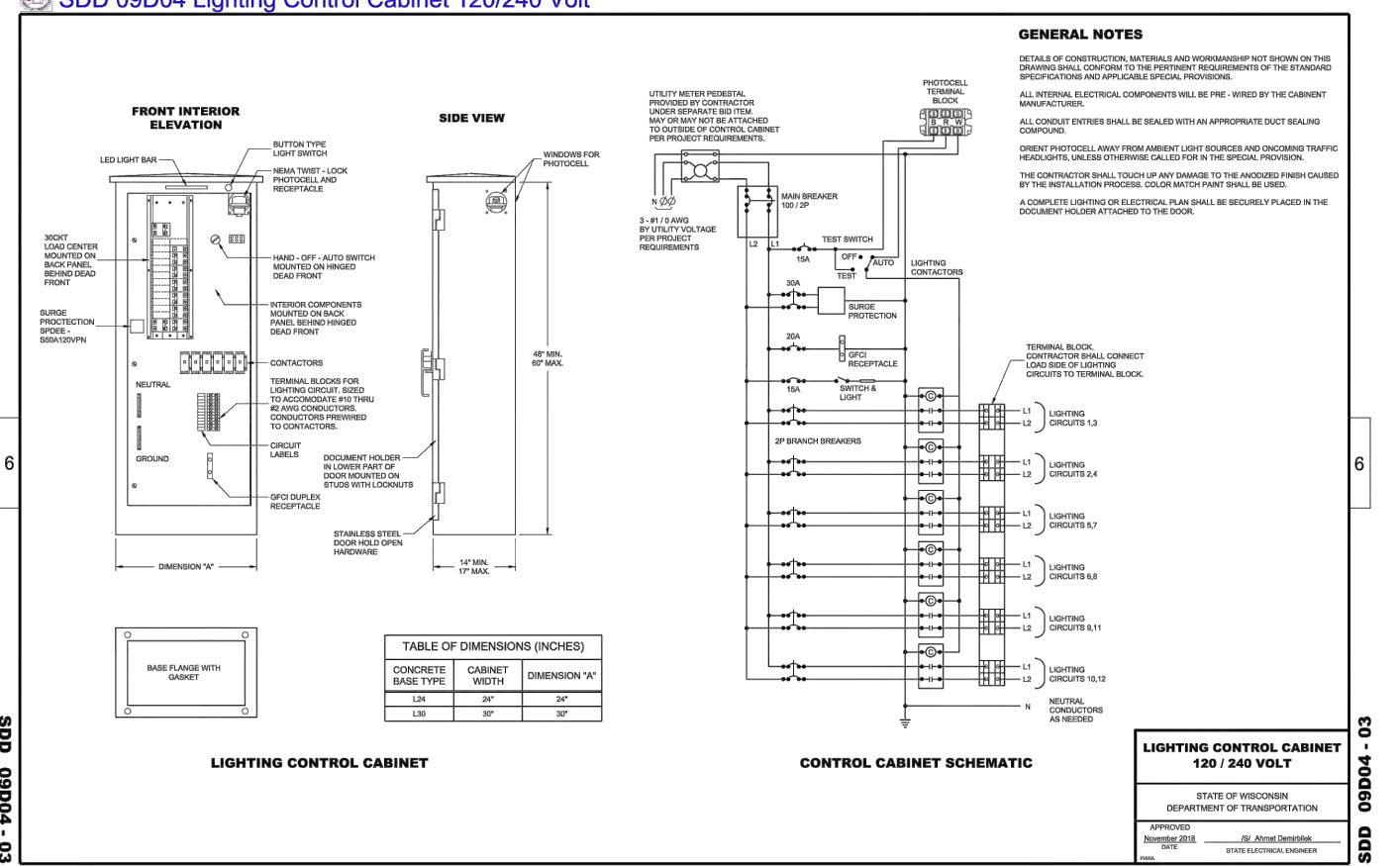
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E502

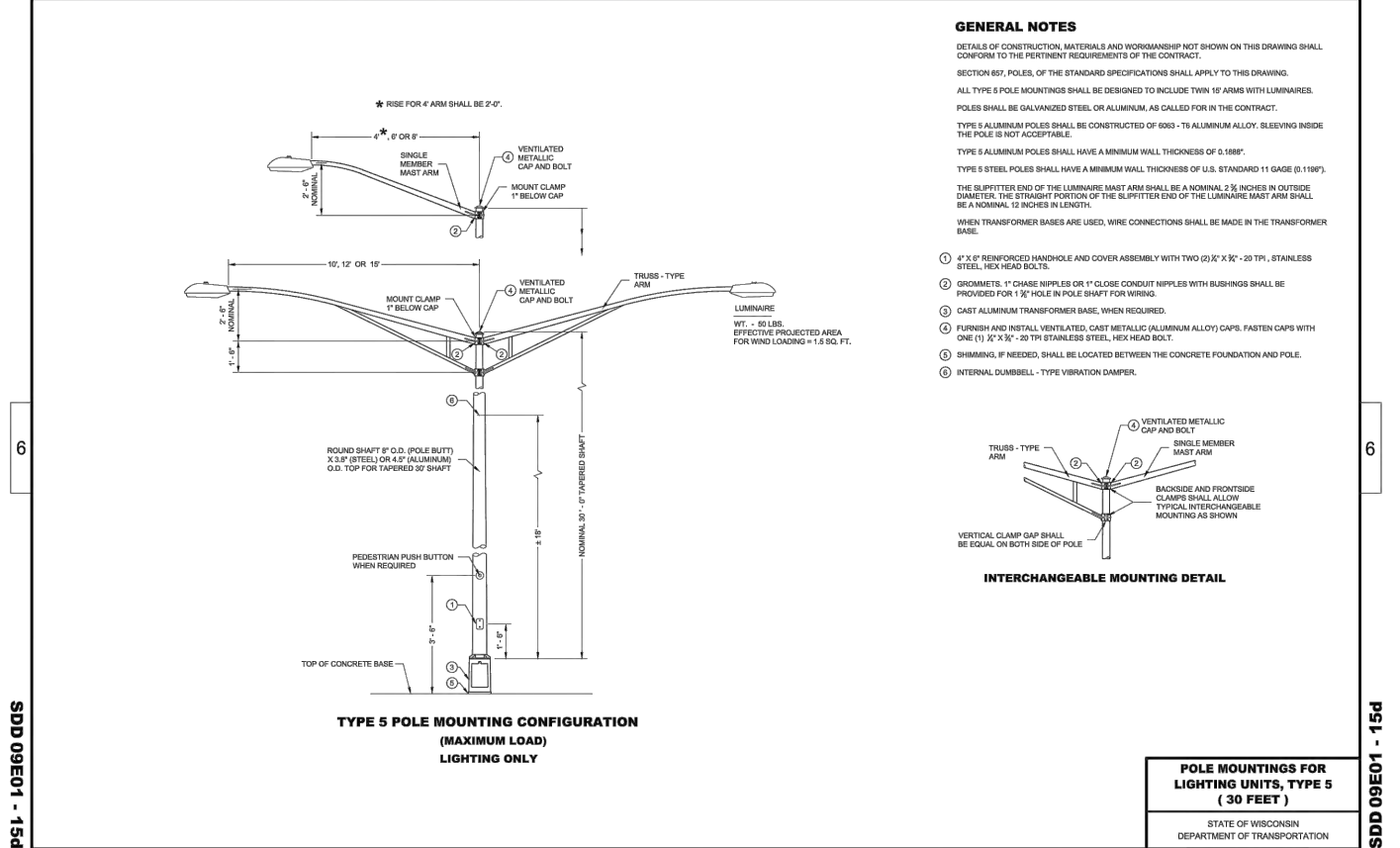
SDD 9d1 Cabinet Service Installation (Meter Breaker Pedestal)



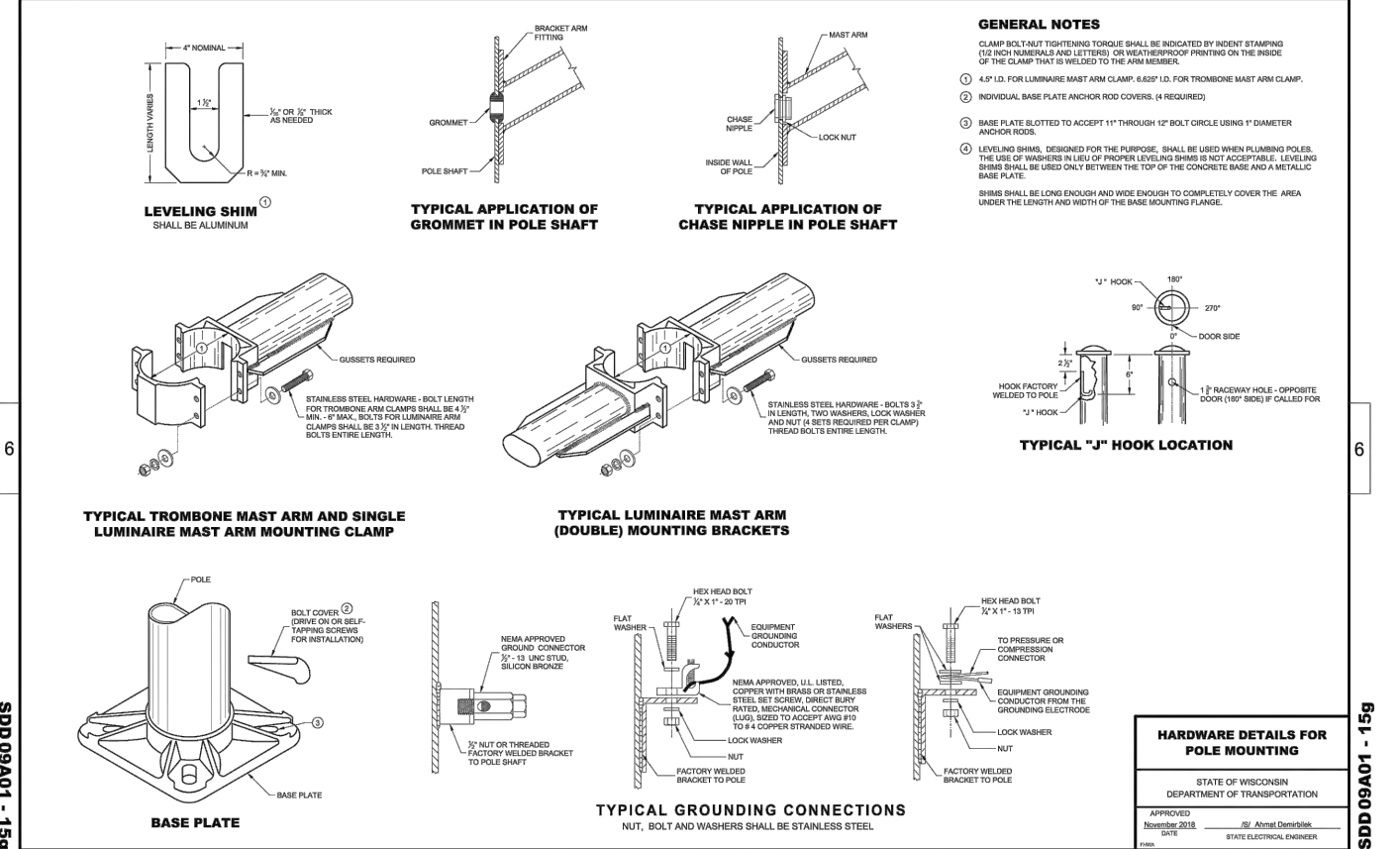
SDD 09D04 Lighting Control Cabinet 120/240 Volt



SDD 09E01-d Pole Mountings for Lighting Units, Type 5



SDD 09E01-g Hardware Details for Pole Mounting



CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115
OFFICE 920-339-4061 FAX 920-339-4071

CONSTRUCTION DETAILS
ELECTRICAL

NAME: AMERICAN BLVD AND COMMERCE DR
CONCRETE PAVING

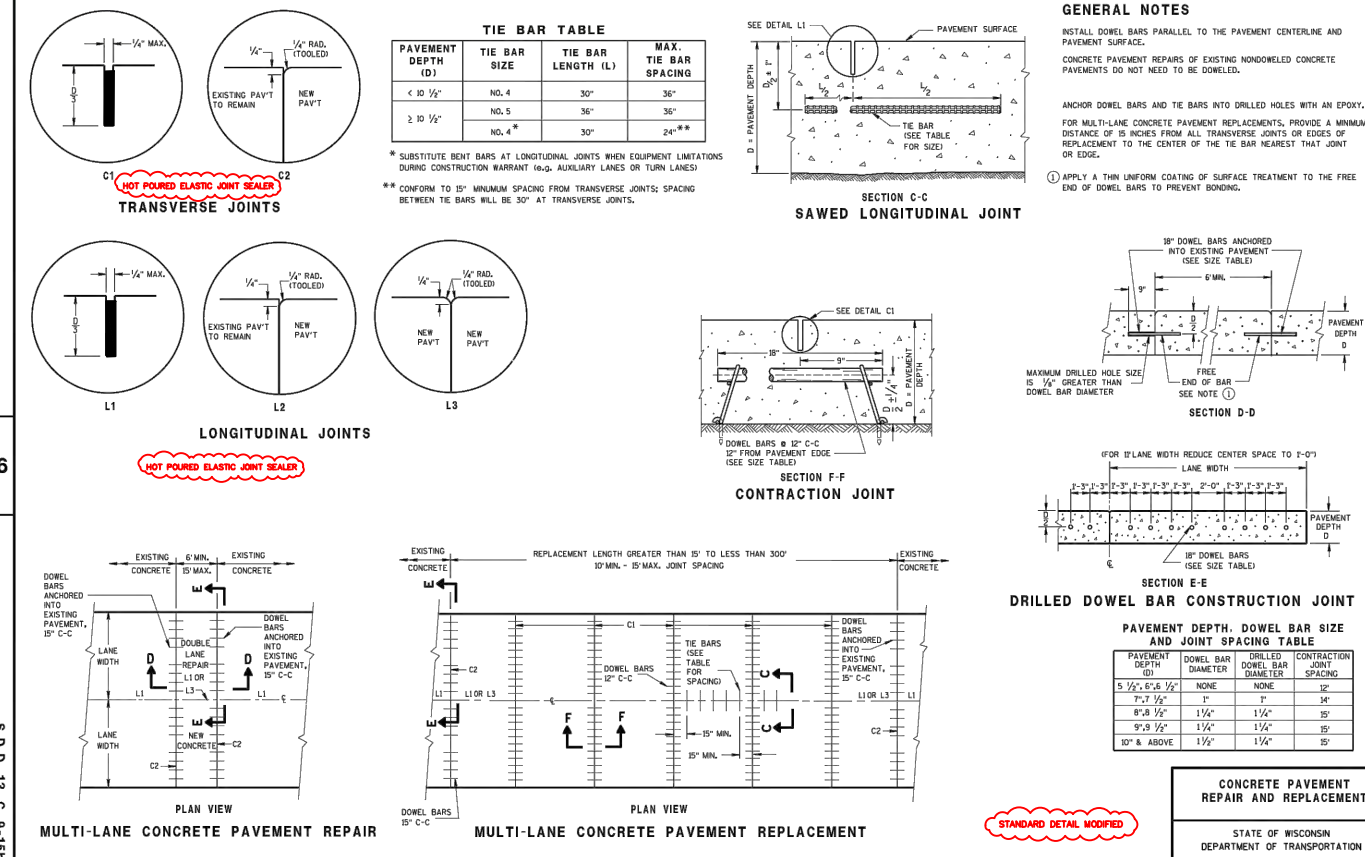
PROJECT # 22-20

BY		DATE	NO.		REVISIONS / ISSUES		REMARKS
SURVEYED							
DRAWN							
DESIGNED							
CHECKED	EPR	02-2022					

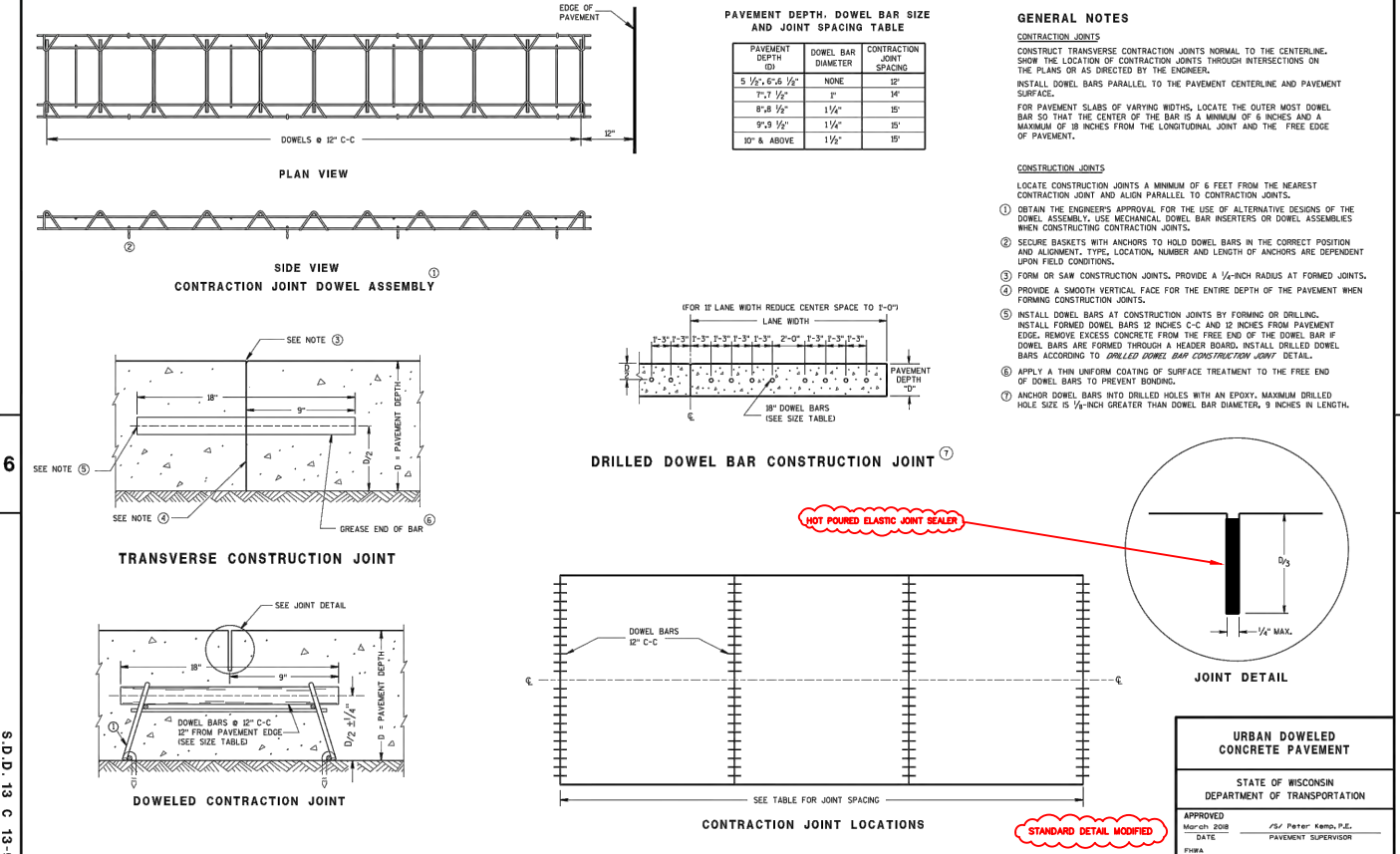
PAGE NO.

E503

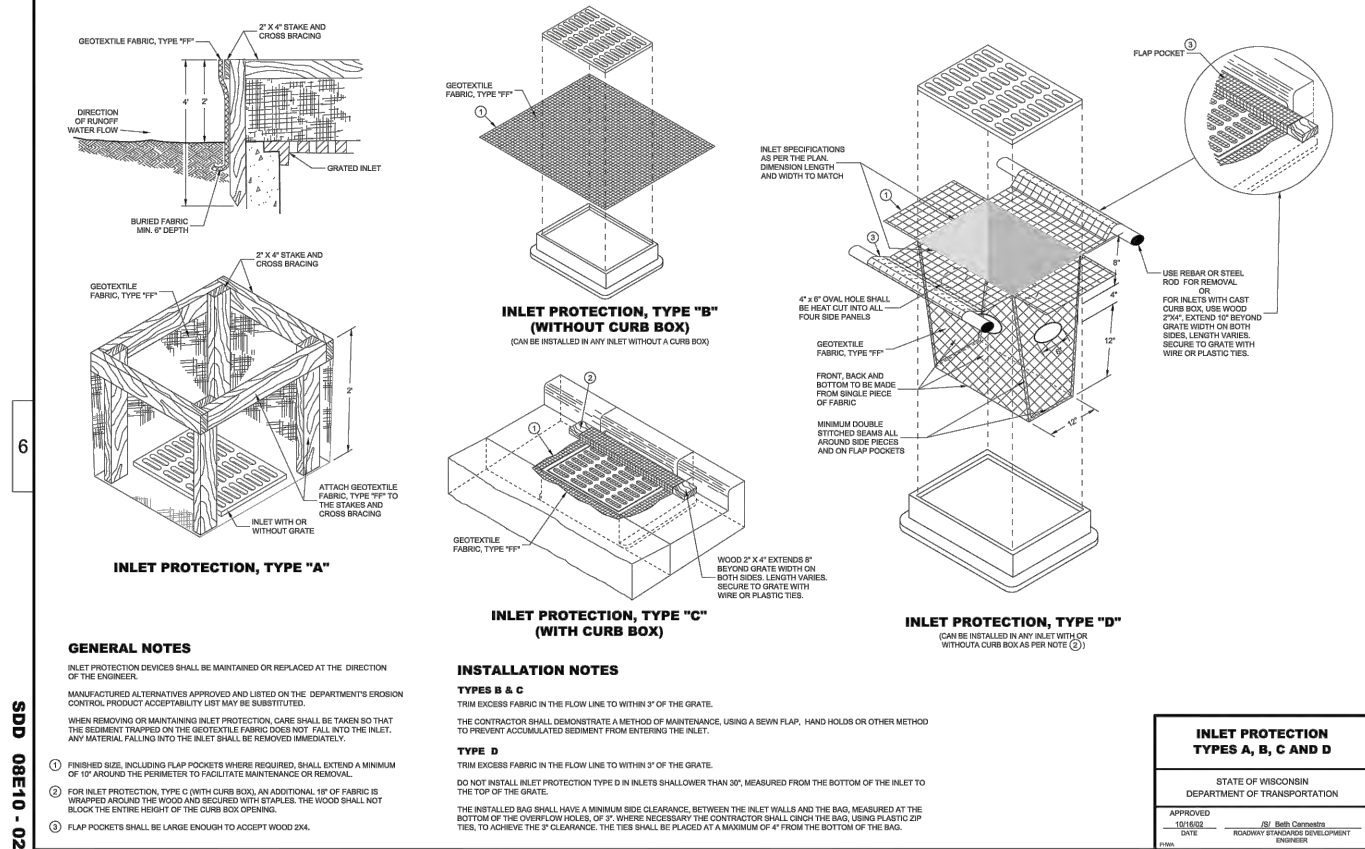
SDD 13c9-b Concrete Pavement Repair and Replacement



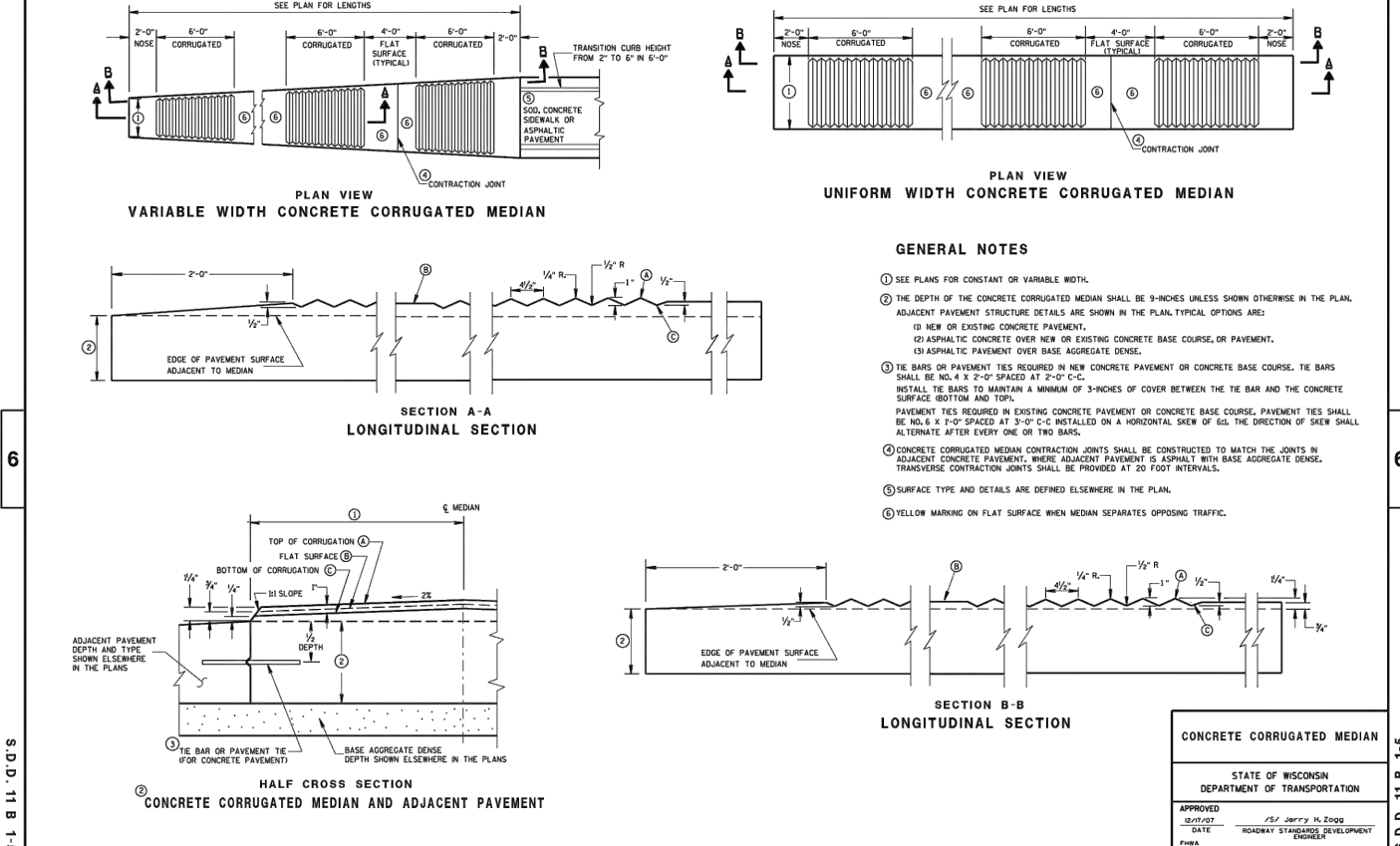
SDD 13c13 Urban Doweled Concrete Pavement



SDD 08E10 Inlet Protection, Types A, B, C and D



SDD 11B1 Concrete Corrugated Median



CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115
OFFICE 920-339-4061 FAX 920-339-4071

CONSTRUCTION DETAILS INLET PROTECTION, TYPES A, B, C AND D & CONCRETE PAVEMENT

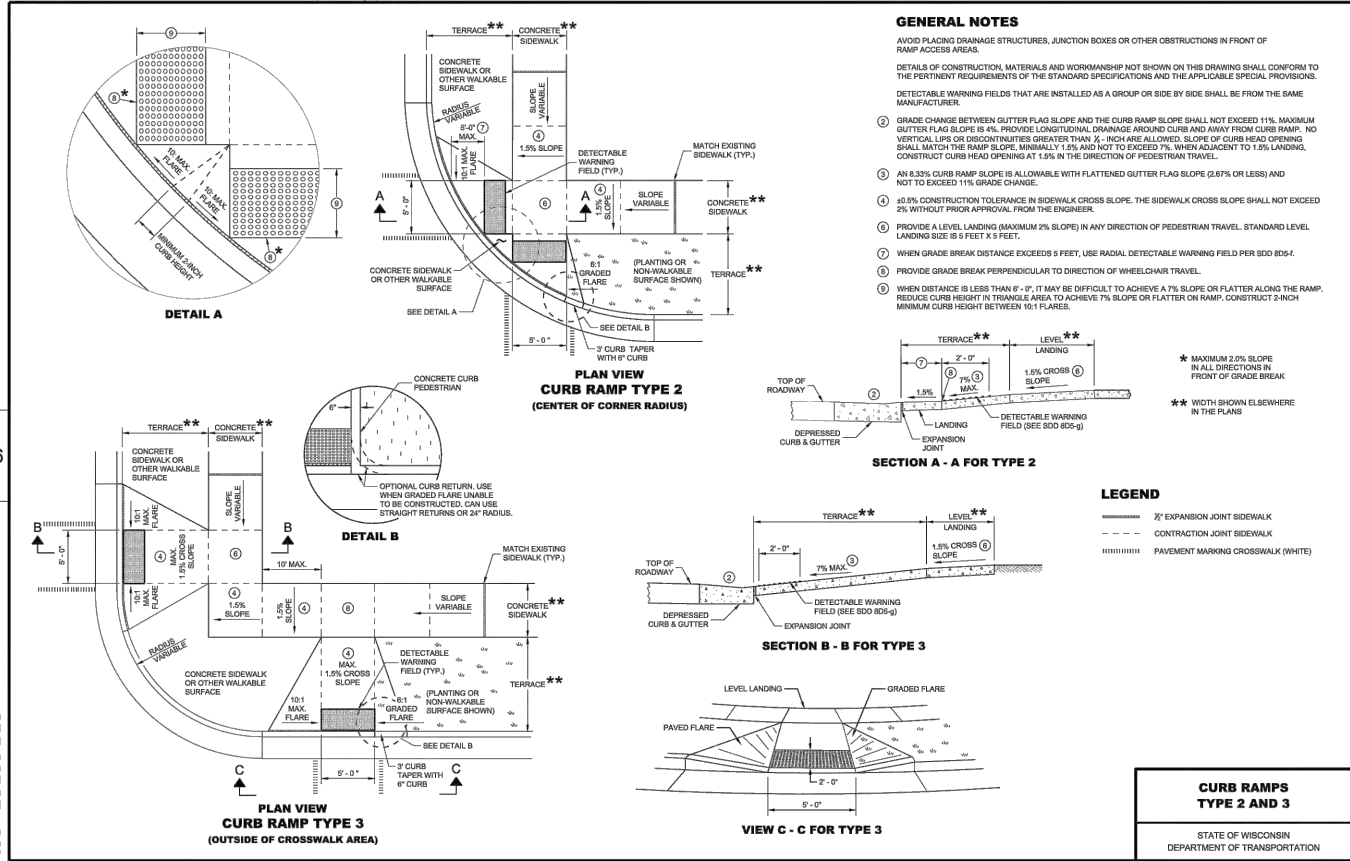
NAME: AMERICAN BLVD AND COMMERCE DR
CONCRETE PAVING
PROJECT # 22-20

BY	DATE	NO.	DATE	BY	REMARKS
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DESIGNED					
CHECKED	EPR	02-2022			

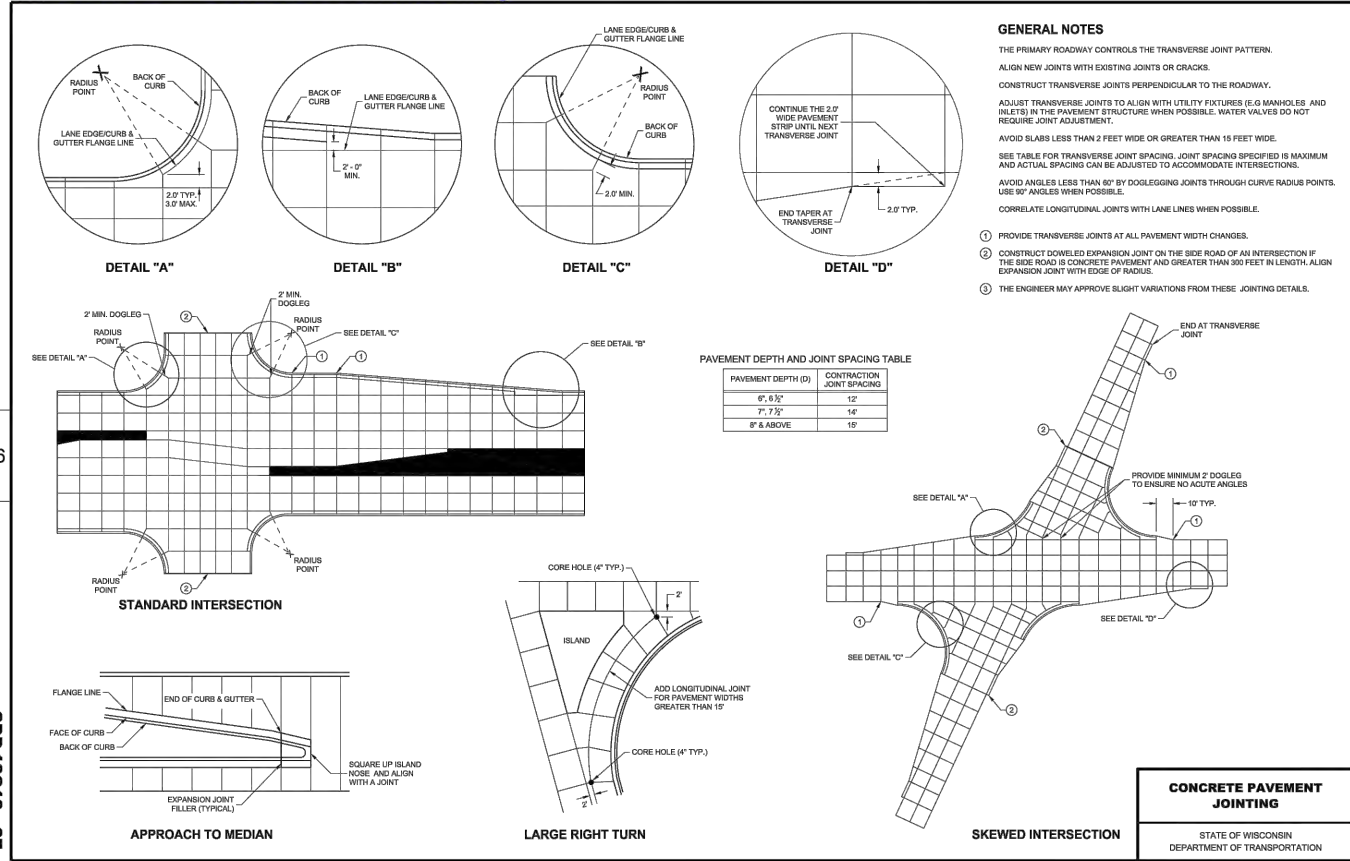
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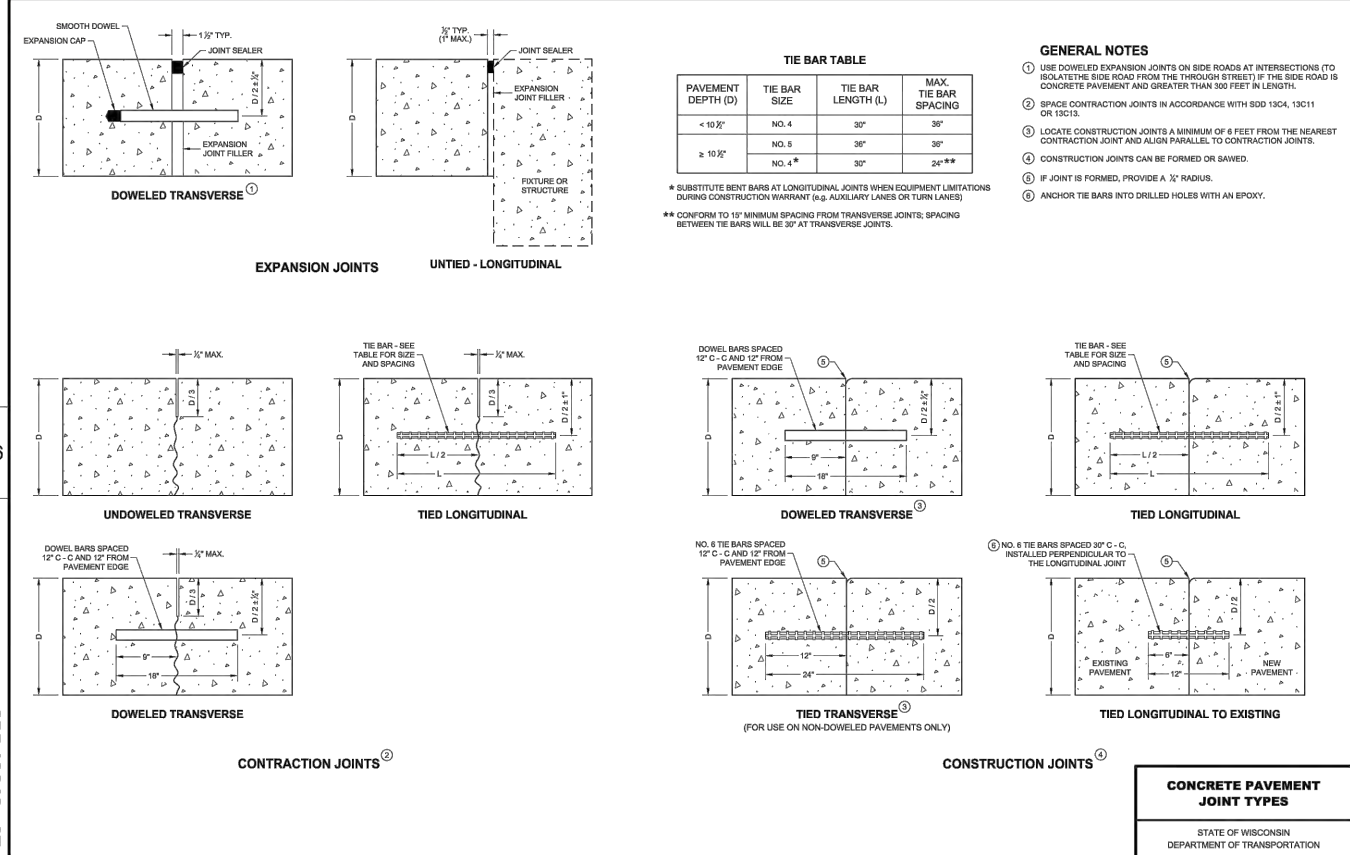
SDD 08D05-b Curb Ramps Types 2 and 3



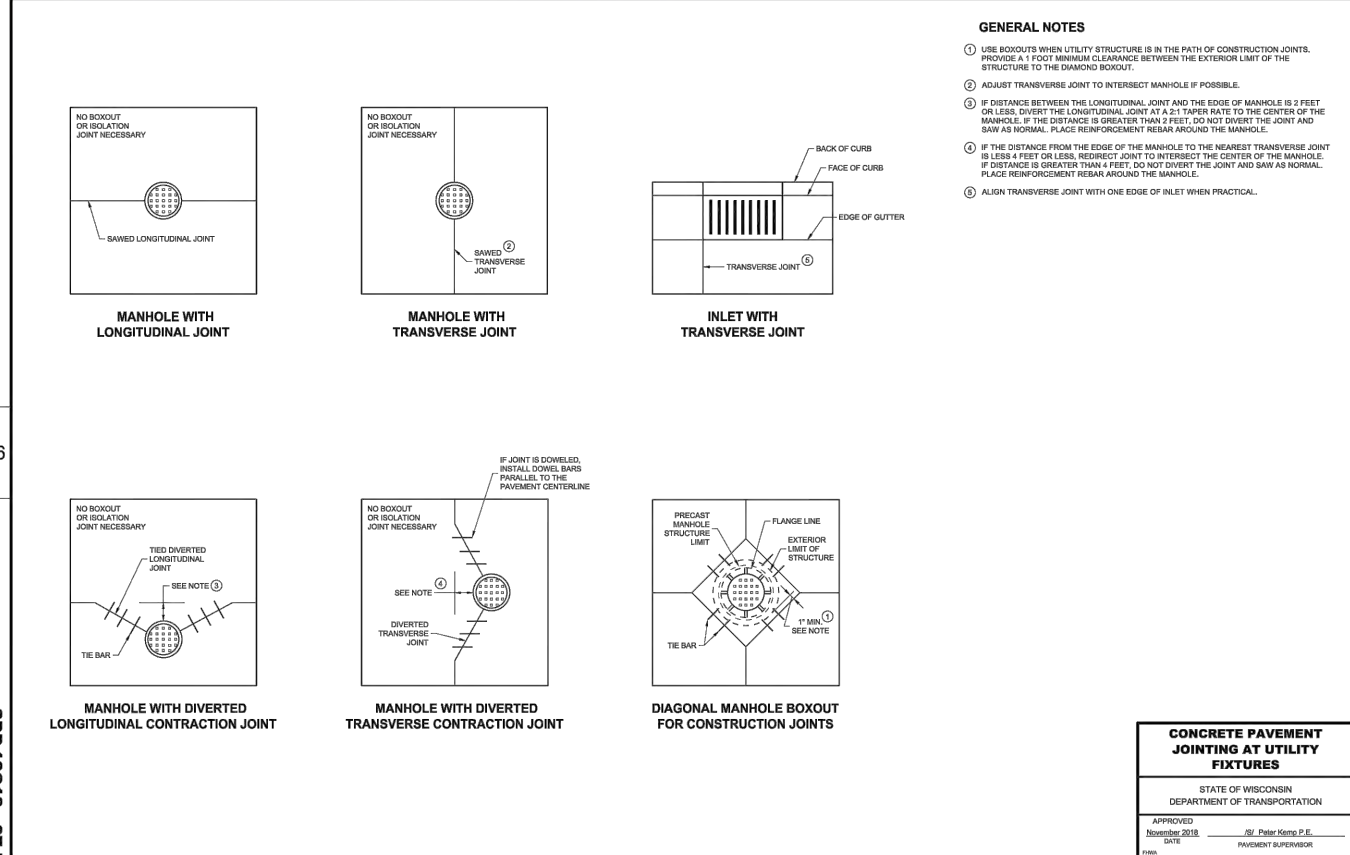
SDD 13C18-a Concrete Pavement Jointing



SDD 13C18-c Concrete Pavement Joint Types



SDD 13C18-d Concrete Pavement Jointing at Utility Fixtures



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CONSTRUCTION DETAILS
CURB RAMPS & CONCRETE PAVEMENT

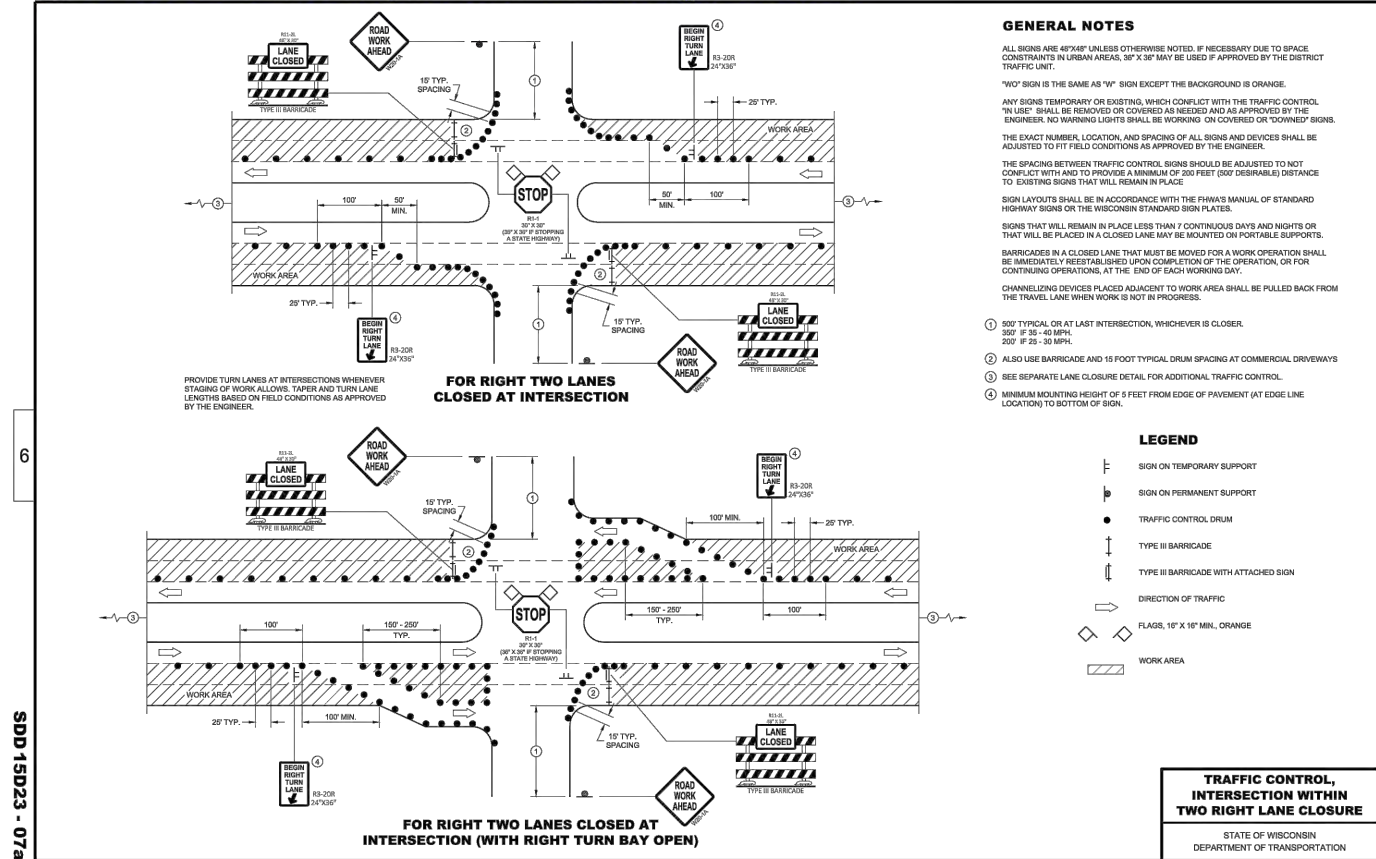
NAME: AMERICAN BLVD AND COMMERCE DR
CONCRETE PAVING
PROJECT # 22-20

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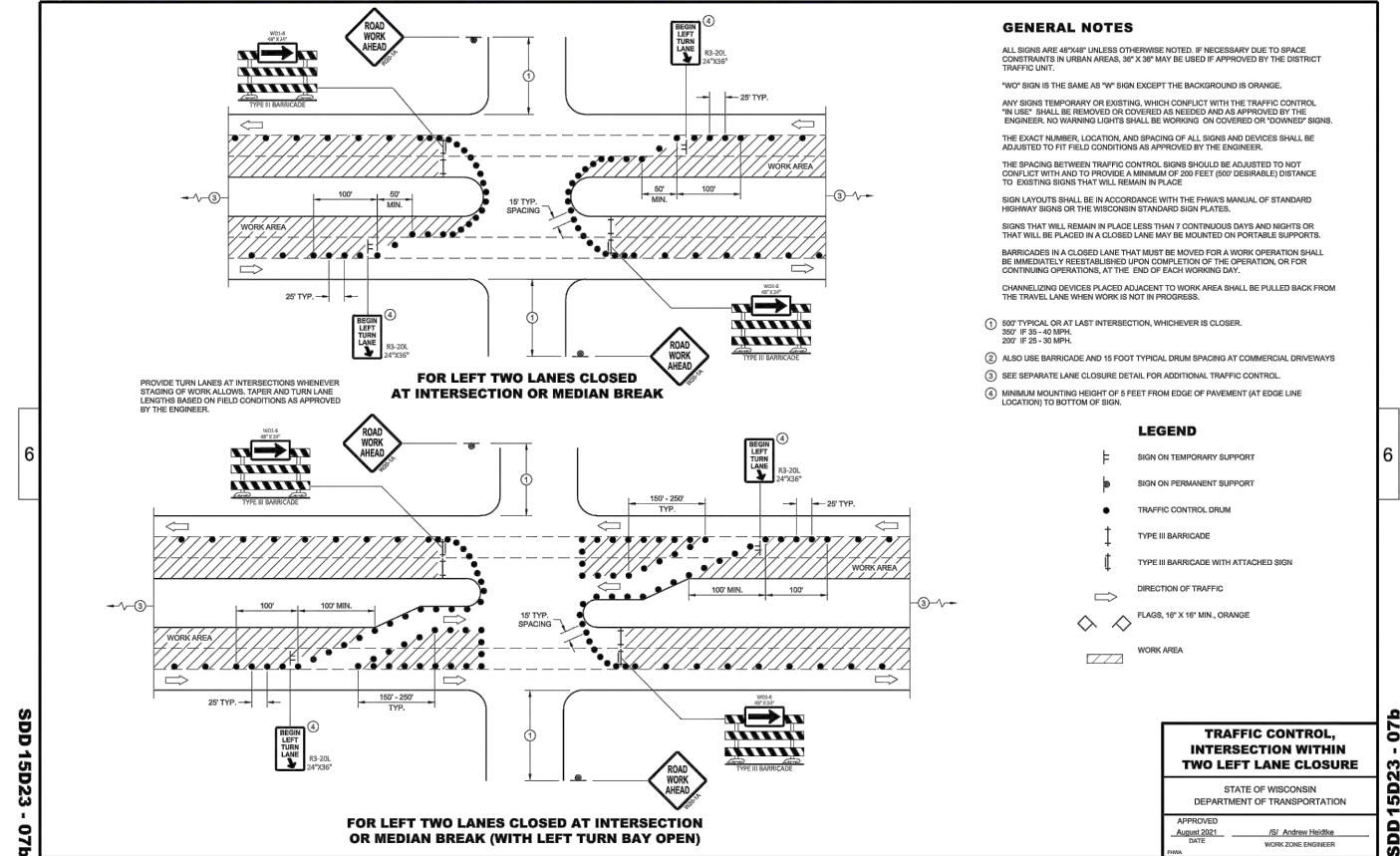
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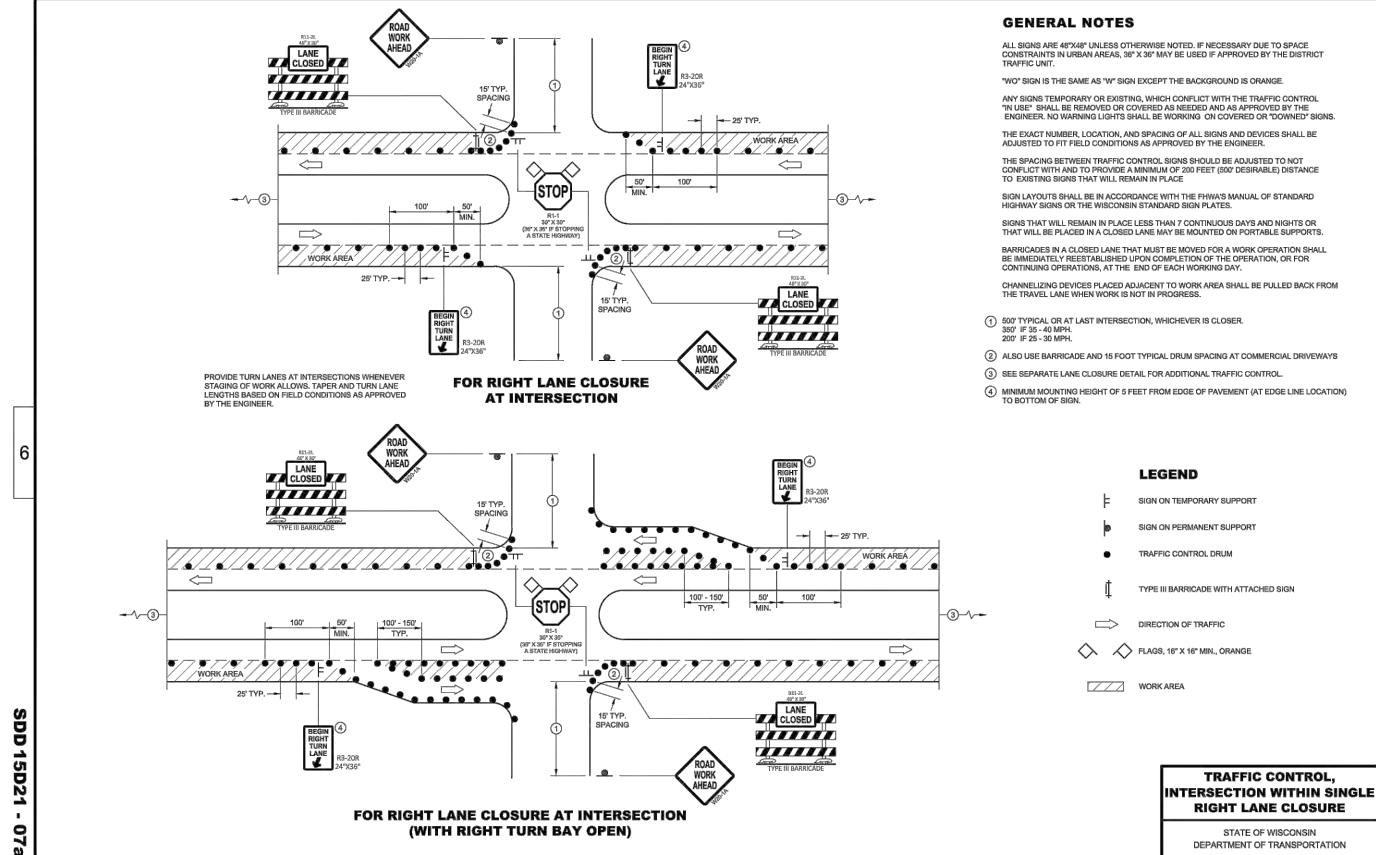
SDD 15D23-a Traffic Control, Intersection Within Two Right Lane Closure



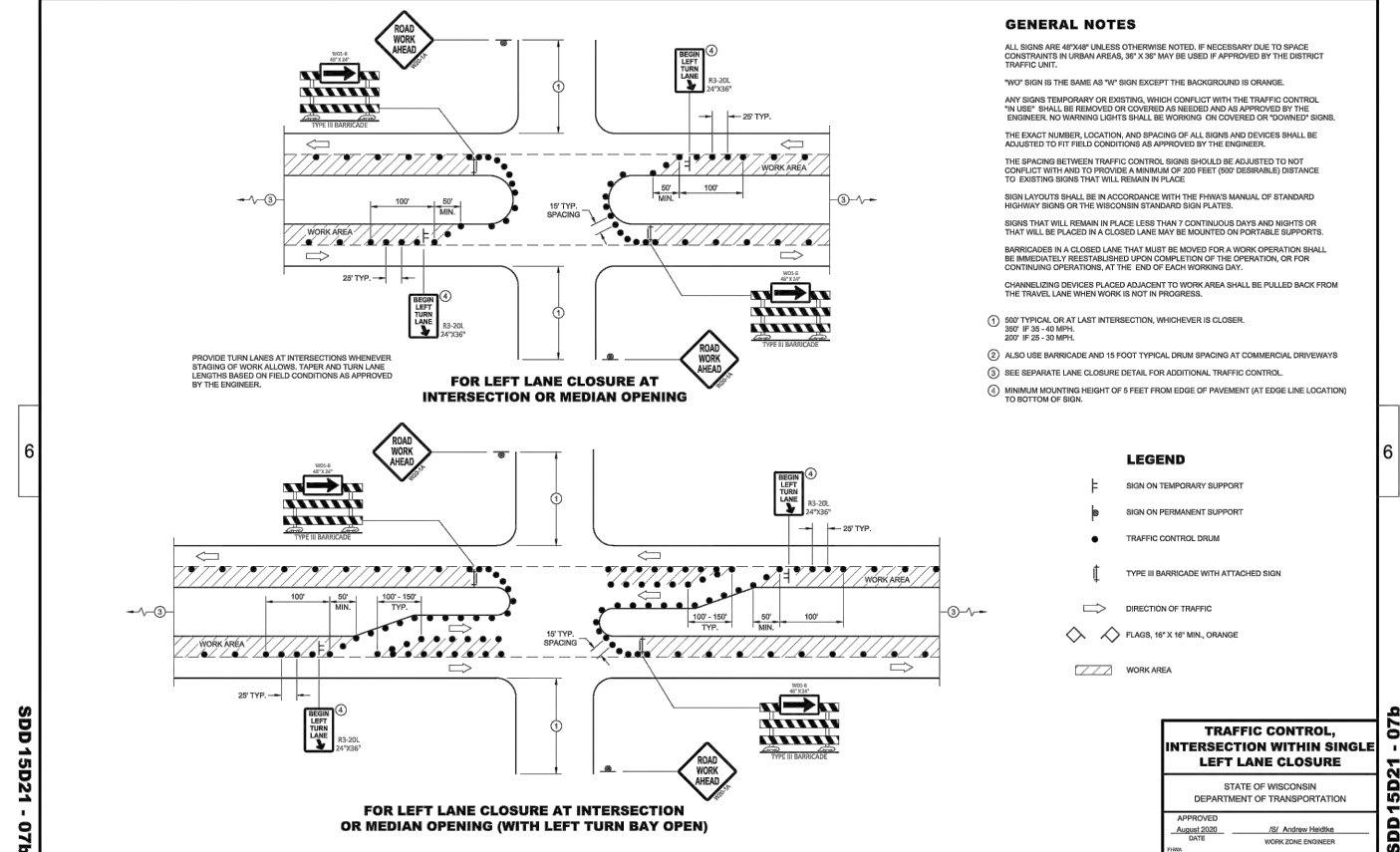
SDD 15D23-b Traffic Control, Intersection Within Two Left Lane Closure



SDD 15D21-a Traffic Control, Intersection Within Single Right Lane Closure



SDD 15D21-b Traffic Control, Intersection Within Single Left Lane Closure



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CONSTRUCTION DETAILS TRAFFIC CONTROL

NAME: AMERICAN BLVD AND COMMERCE DR CONCRETE PAVING	BY	DATE	REVISIONS / ISSUES	
PROJECT # 22-20	SURVEYED		NO.	DATE
	DRAWN		BY	REMARKS
	DESIGNED			
	CHECKED	EPR	02-2022	

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Field Manual 2020

CHANNELIZING DEVICES

TYPE 3 BARRICADES

- Orange diagonals shall slope down toward the traffic side.
- Signs mounted on Type III barricades should not cover more than half of the top two rails or 33 percent of the total area of the three rails.
- Type A Flashing Warning Lights may be used - place on both side of barricade. Required for nighttime work or if device remaining overnight.

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Field Manual 2020

NOTES:

- END ROAD WORK sign should be placed 500 feet past work area.
- When available width is less than 16 feet, a Max Width (W12-52) sign should be used with a posted width 1 foot less than available width.

45 MPH AND LESS LANE CLOSURE MULTI-LANE DIVIDED ROAD

3 DAYS or LESS LAYOUT 52

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SDD 15C02-b Barricades and Sign for Various Closures

DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW

DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60" X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- M05 - 1 AND M05 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).

2 THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.

3 FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".

4 FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".

5 FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.

6 INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

7 "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED: *[Signature]* DATE: *[Date]*
BY: *[Signature]* WORK ZONE ENGINEER

SDD 15C02 - 08b

SDD 15C05 Traffic Control, Advance Warning Signs 40 MPH or Less Two Way Undivided Road Open to Traffic

GENERAL NOTES

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (300 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48"X48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

★ THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

LEGEND

- Sign on permanent support
- Direction of traffic
- Work area

TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED: *[Signature]* DATE: *[Date]*
BY: *[Signature]* WORK ZONE ENGINEER

SDD 15C05 - 05



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**CONSTRUCTION DETAILS
TRAFFIC CONTROL**

NAME: AMERICAN BLVD AND COMMERCE DR
CONCRETE PAVING
PROJECT # 22-20

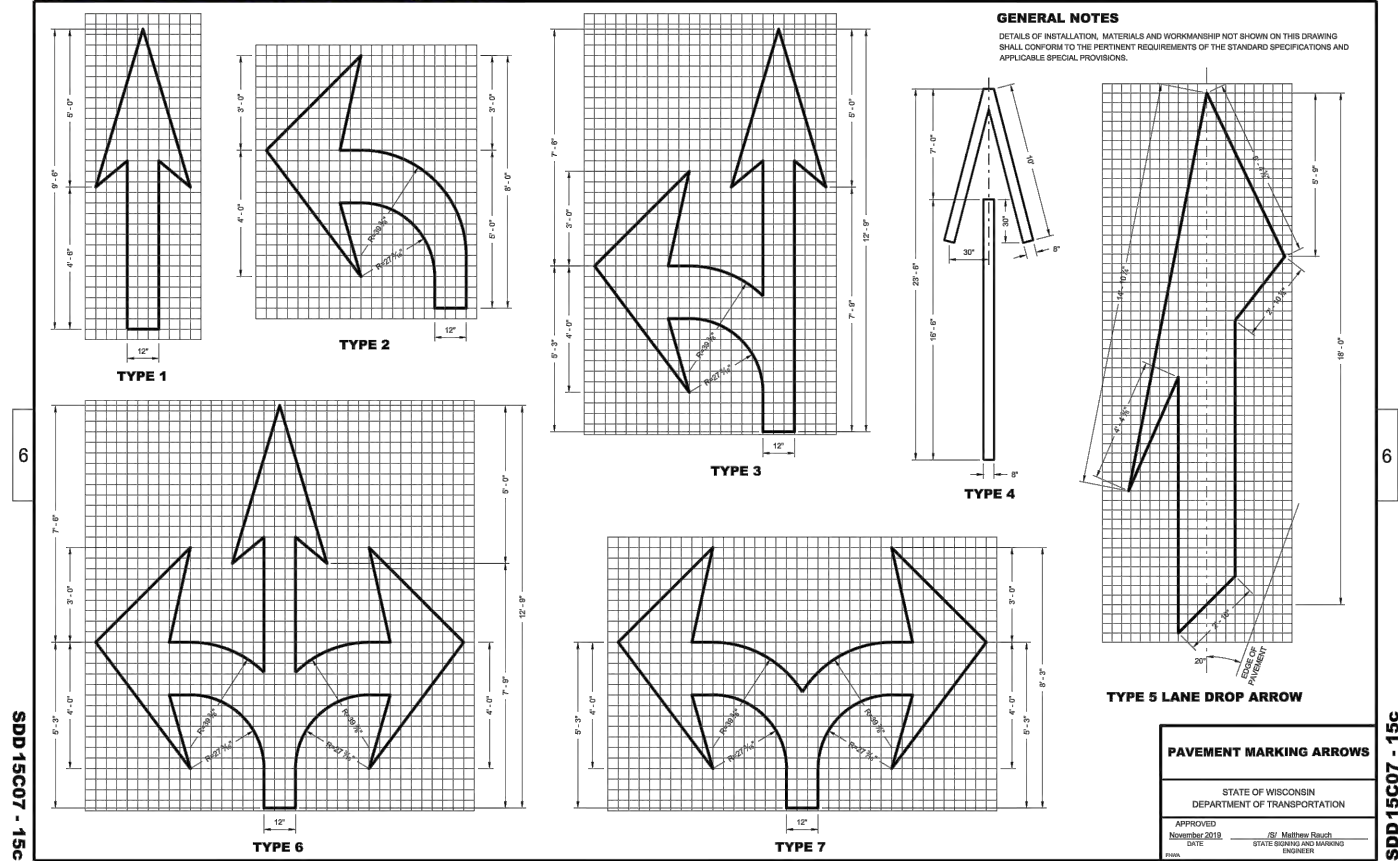
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CHECKED	EPR

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NO.	DATE	BY	REMARKS

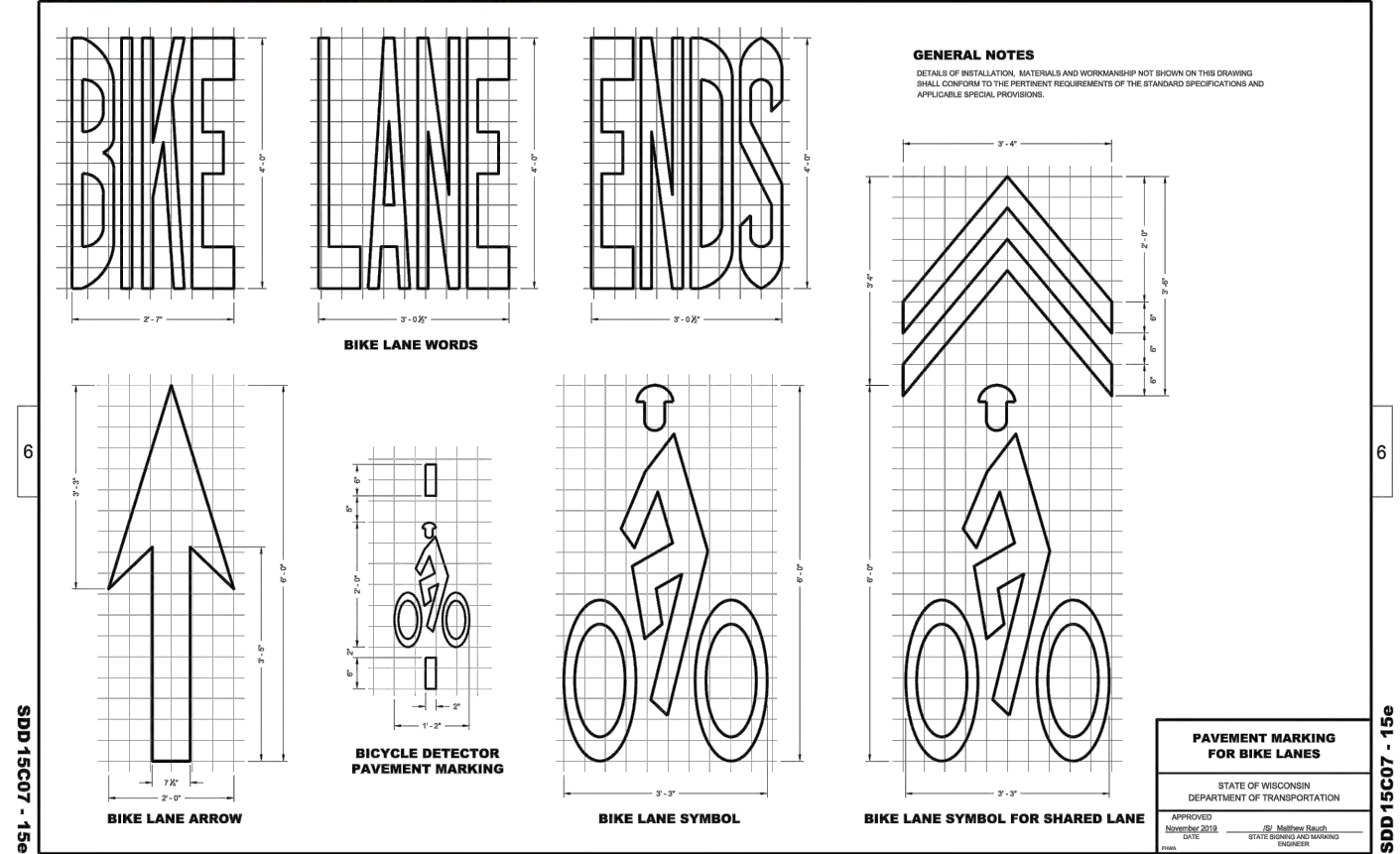
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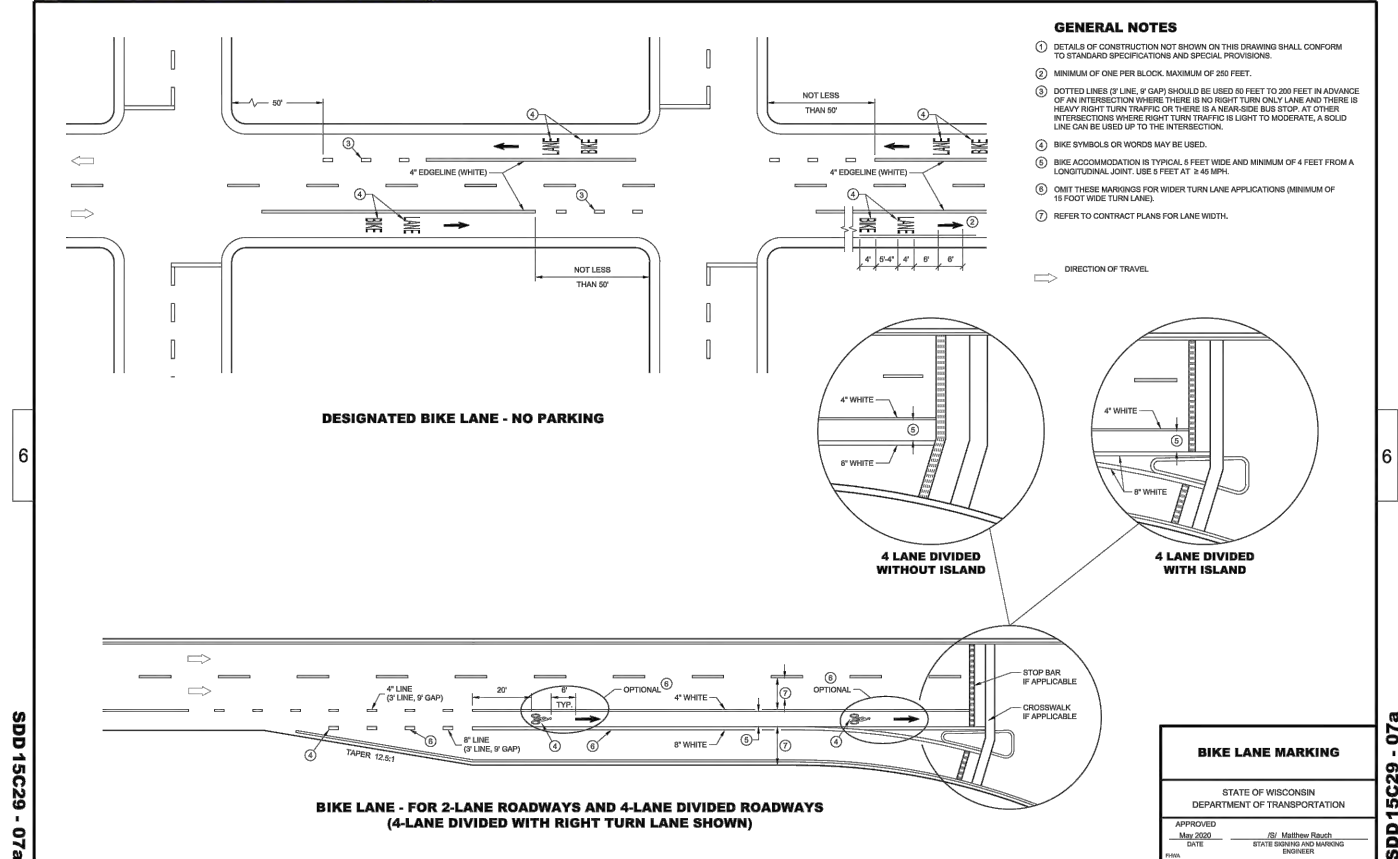
SDD 15C7-c Pavement Marking Arrows



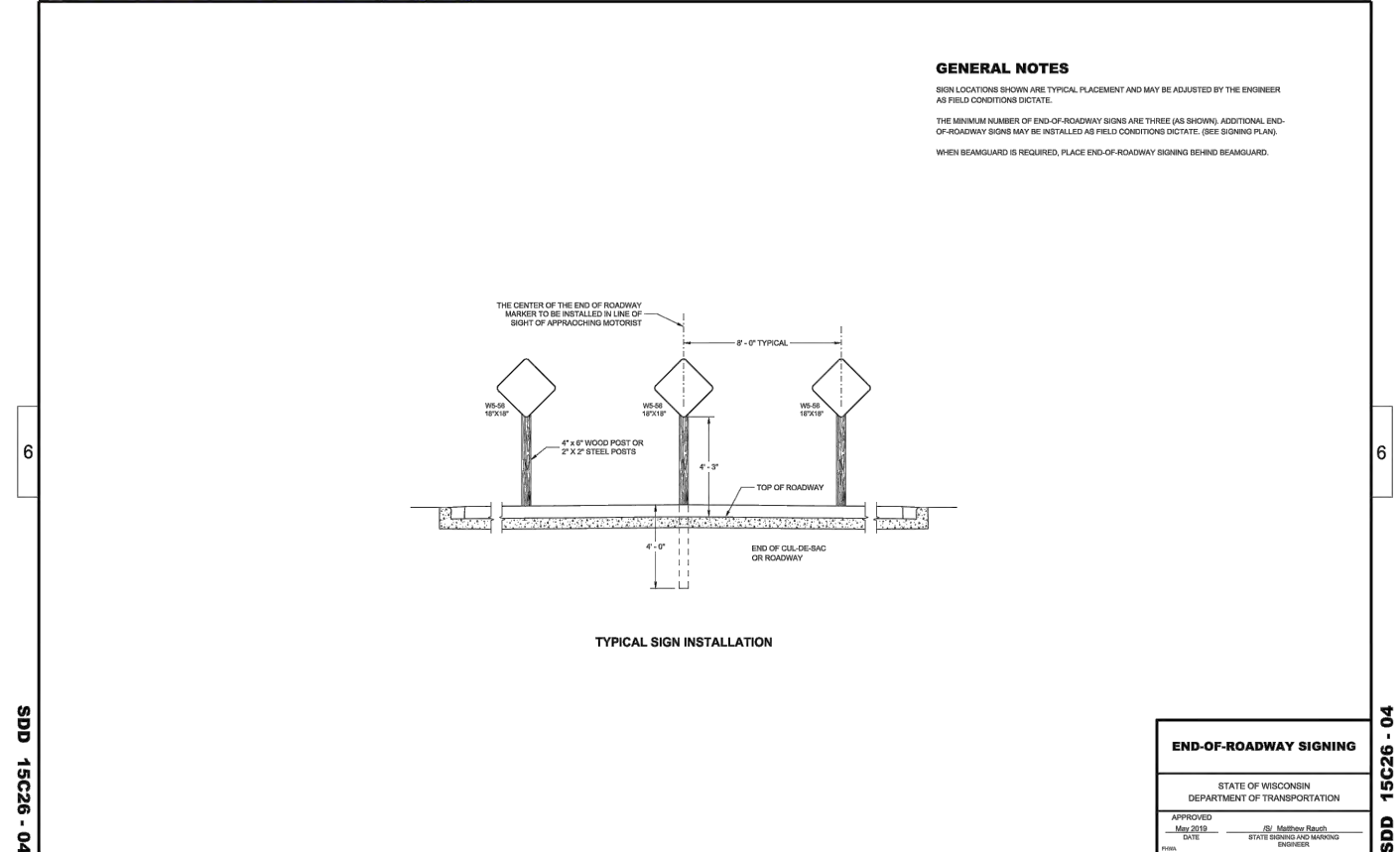
SDD 15C7-e Pavement Marking For Bike Lanes



SDD 15C29-a Bike Lane Marking



SDD 15C26 End-of-Roadway Signing



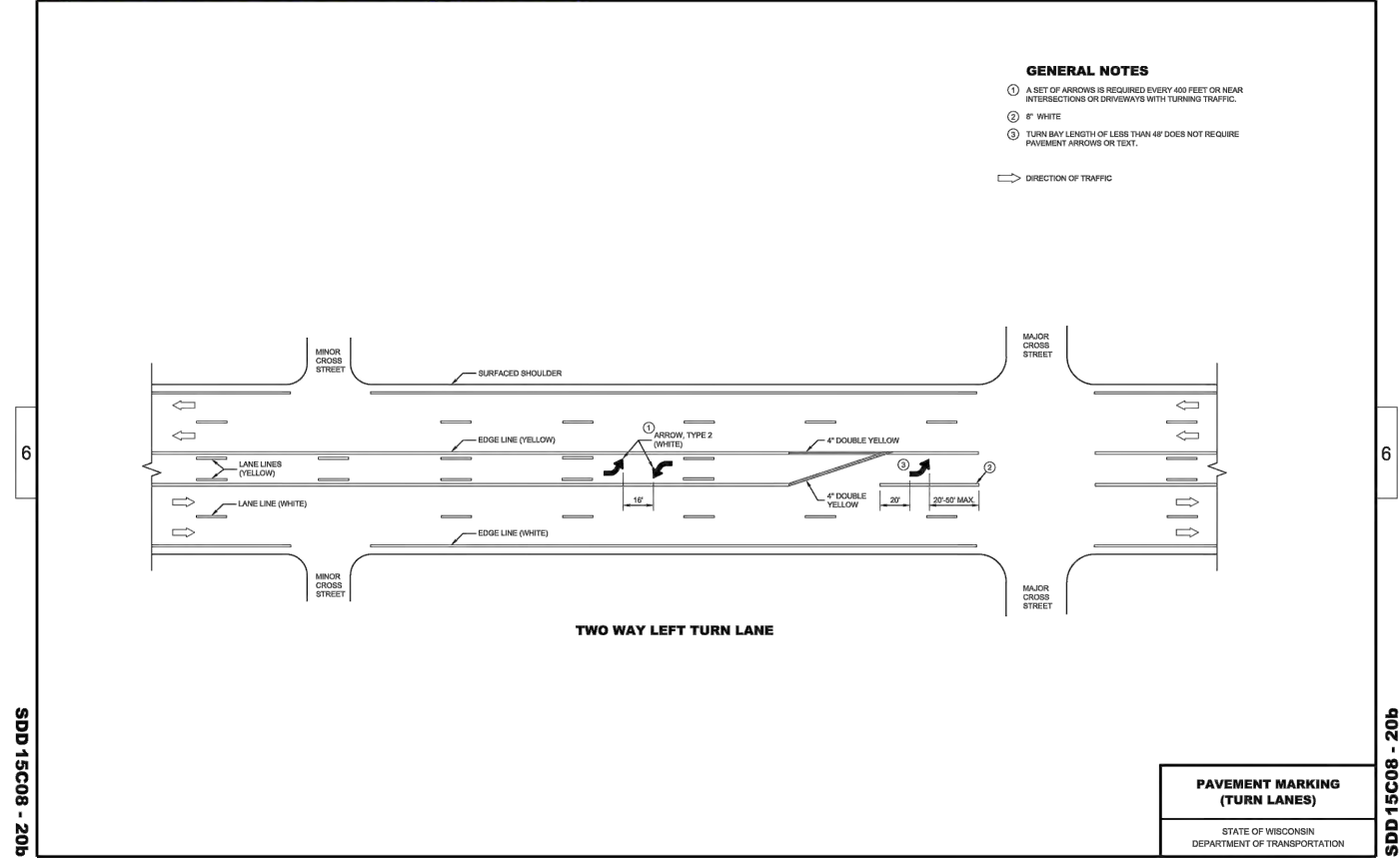
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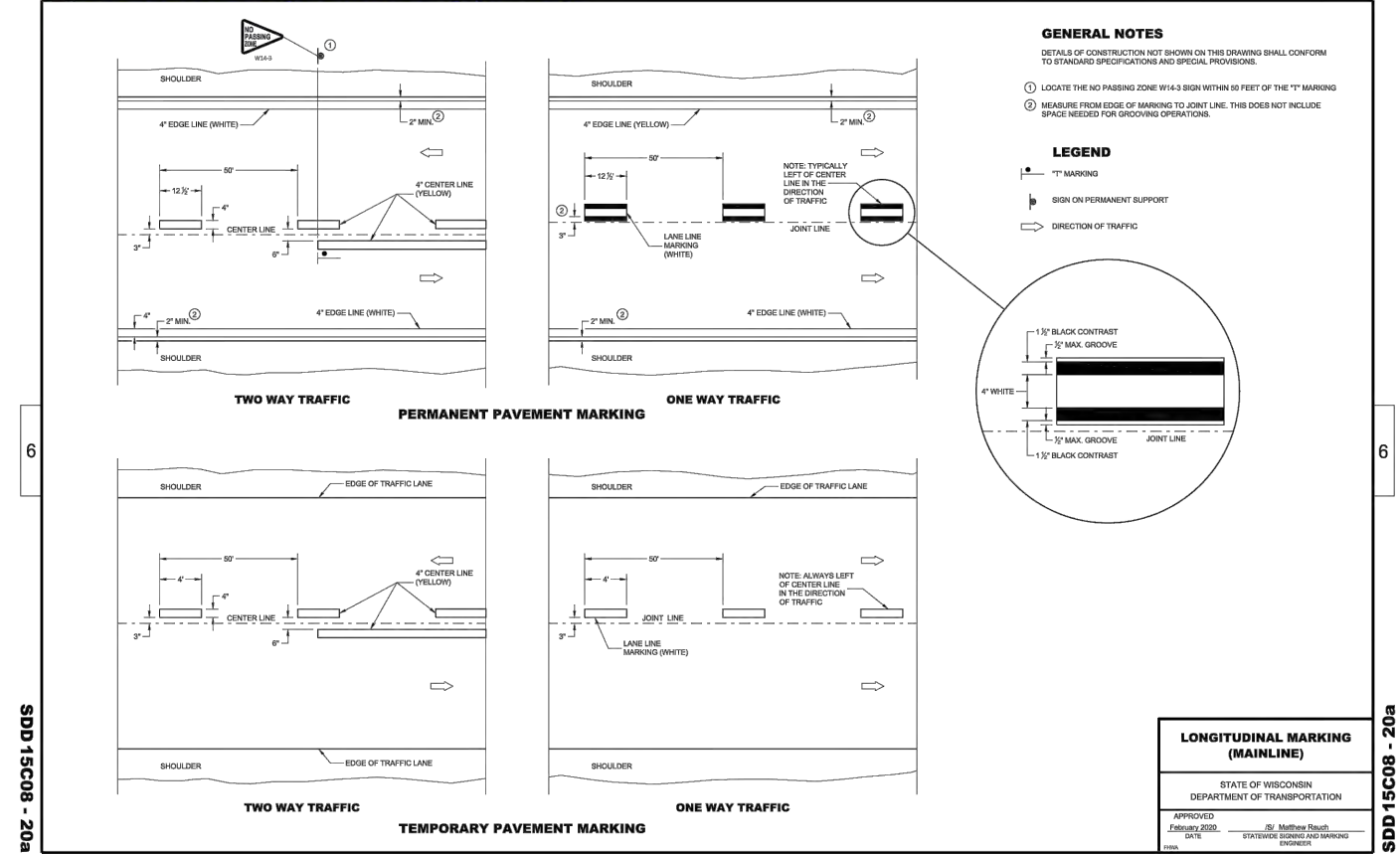
CONSTRUCTION DETAILS
PAVEMENT MARKING & SIGNAGE

NAME: AMERICAN BLVD AND COMMERCE DR CONCRETE PAVING		BY		DATE		NO.		REVISIONS / ISSUES		PAGE NO.	
PROJECT #		DESIGNED		CHECKED		DATE		BY		REMARKS	
22-20		EPR		02-2022							

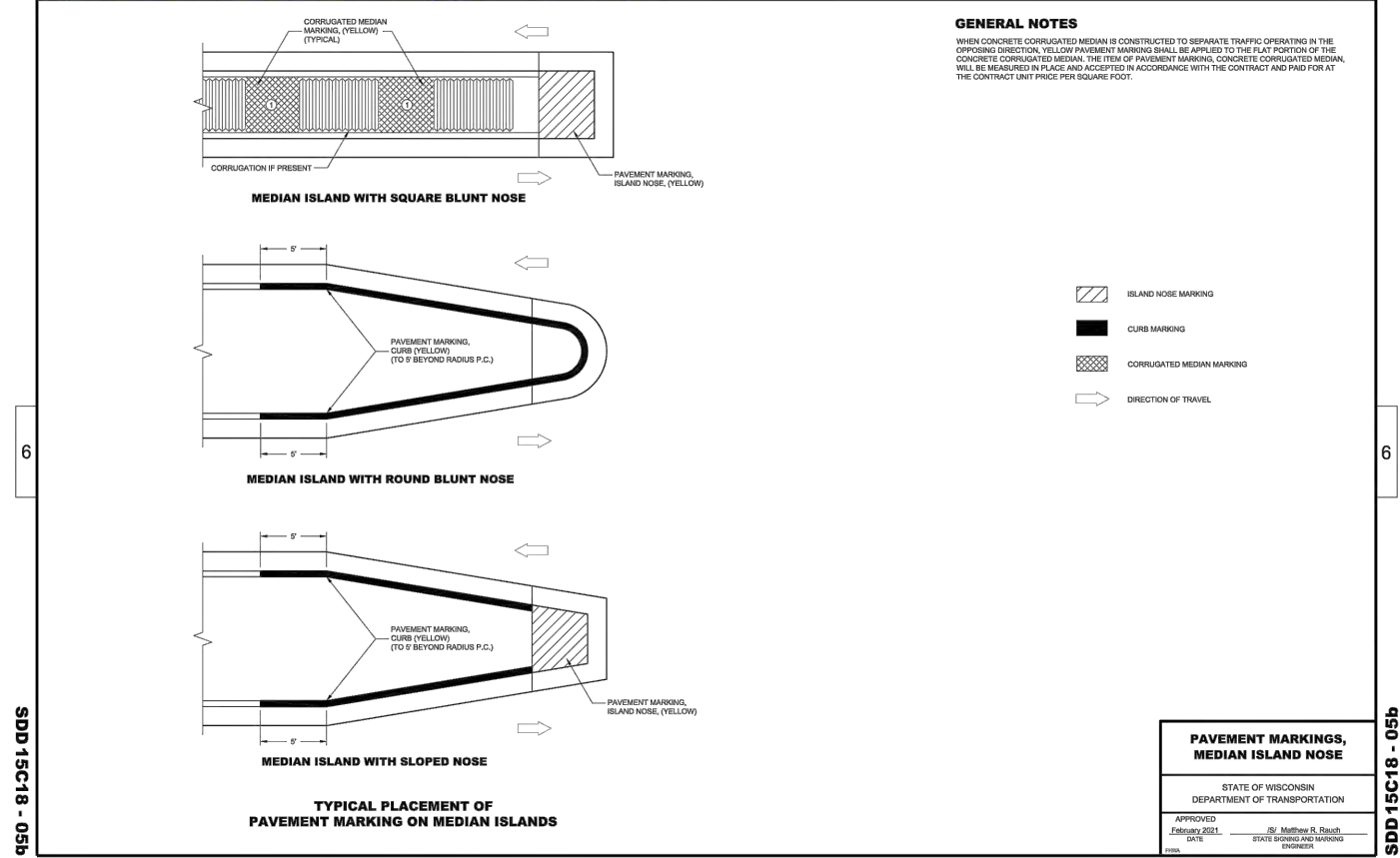
SDD 15C08-b Pavement Marking (Turn Lanes)



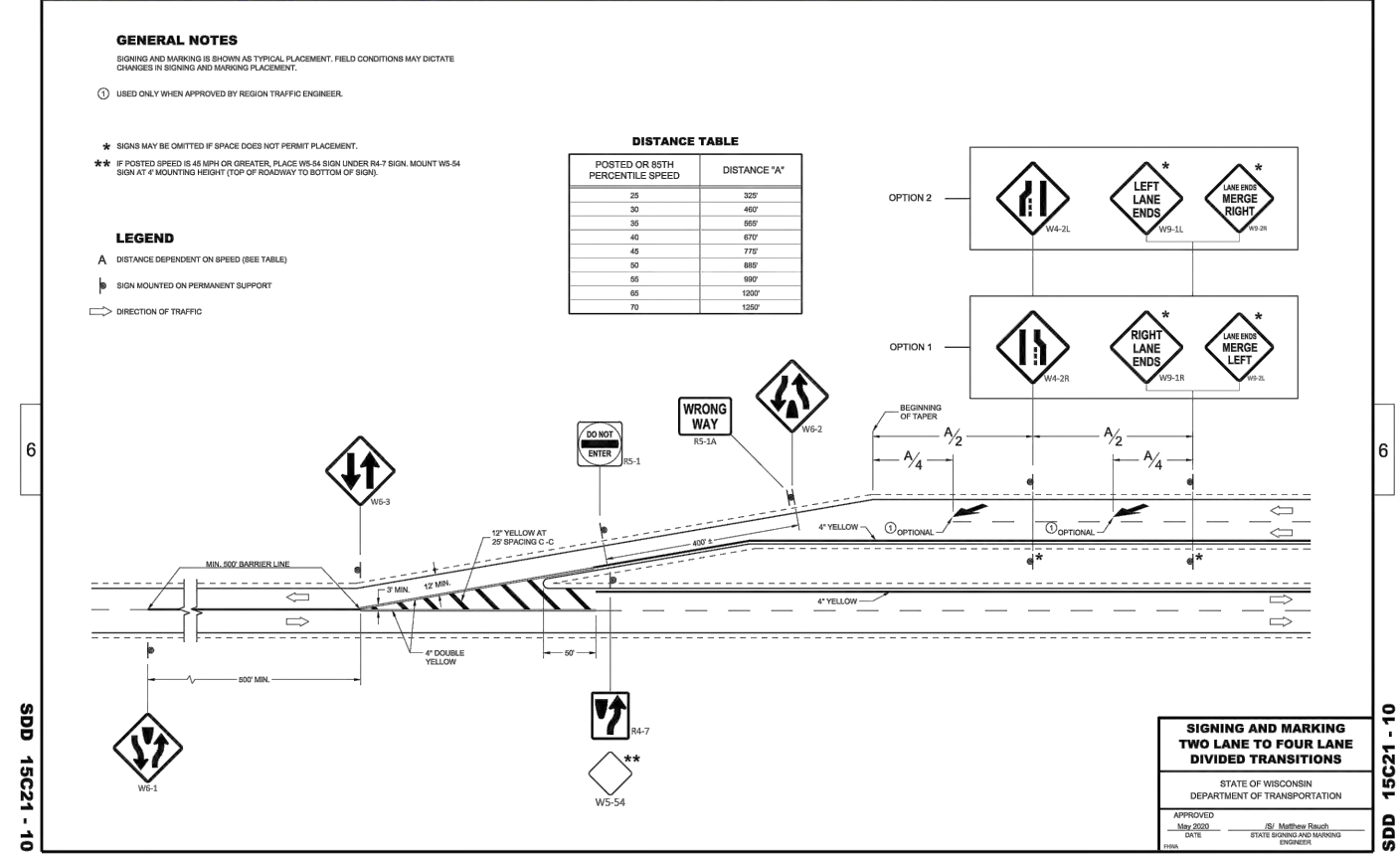
SDD 15C08-a Longitudinal Marking (Mainline)



SDD 15C18-b Pavement Markings, Median Island Nose



SDD 15C21 Signing and Marking for Two Lane to Four Lane Divided Transitions



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CONSTRUCTION DETAILS
PAVEMENT MARKING & SIGNAGE

NAME: AMERICAN BLVD AND
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PROJECT # 22-20

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NO.	DATE	BY	REMARKS

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