

Nielsen Madsen + Barber
CIVIL ENGINEERS AND LAND SURVEYORS

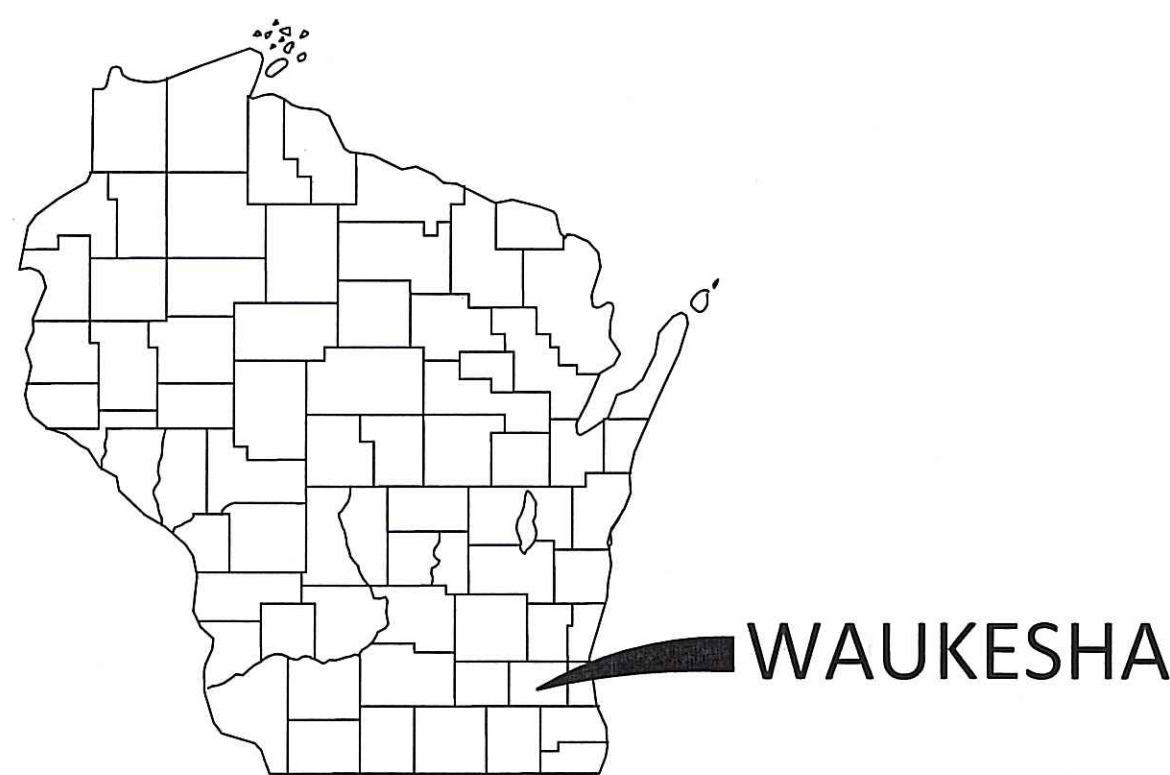
1458 Horizon Blvd. Suite 200, Racine, WI. 53406
Tele: (262)634-5588 Website: www.nmbasc.net

Waukesha Express Wash
Site Grading, Erosion Control, Utility and
Pavement Plans
FOR
Erickson Enterprises II, LLC.
City of Waukesha, Waukesha County, Wisconsin

PROJ. MGR:	MRM
DRAFTED:	ALJ
DATE:	11-14-2022
CHECKED:	MRM
DATE:	01-03-2023
2022.0186.01	
SHEET	
C-1	

ISSUE FOR APPROVAL: 01-04-2023

CONSTRUCTION PLANS for WAUKESHA EXPRESS WASH for ERICKSON ENTERPRISES II, LLC. 300 W. Sunset Drive, Waukesha, Wisconsin

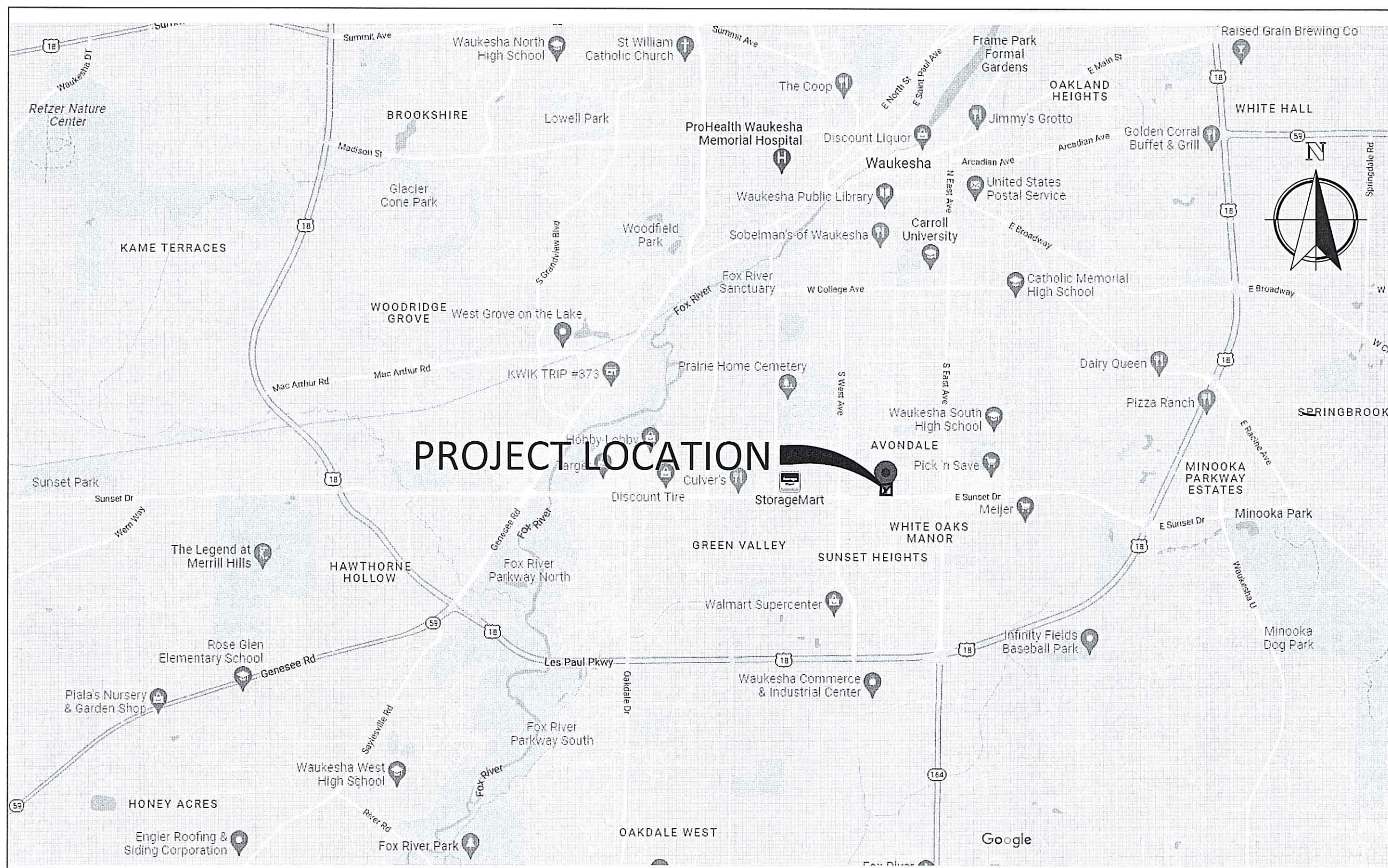


LEGEND

Description	Existing	Description	Existing	Proposed
EDGE OF WOODS		WATER SHUT OFF		
DECIDUOUS TREE		WATER MAIN VALVE		
DECIDUOUS TREE REMOVAL		HYDRANT		
CONIFEROUS TREE		WATER MAIN REDUCER		
CONIFEROUS TREE REMOVAL		SANITARY MANHOLE		
BUSH		SANITARY CLEAN OUT		
SOIL BORING		STORM MANHOLE		
TELEPHONE BOX		CATCH BASIN		
GUY WIRE		LIGHT POLE		
UTILITY POLE		ENDWALL		
GAS VALVE		STORM SEWER		
GAS METER		SANITARY SEWER		
SEPTIC VENT		WATERMAIN		
ELECTRIC MANHOLE		CONTOURS		
COMMUNICATION MANHOLE		FIRE PROTECTION		
WATER MANHOLE		UTILITY CROSSING		
HVAC UNIT		DITCH OR SWALE		
UNDERGROUND VAULT		CULVERT		
SECTION CORNER		RAILROAD TRACKS		
MAIL BOX		FENCE		
GUARD POST		NO VEHICULAR ACCESS		
STREET SIGN		UNDERGROUND ELECTRIC		
ELECTRIC PEDESTAL		UNDERGROUND GAS MAIN		
ELECTRIC METER		UNDERGROUND COMMUNICATIONS		
PAD MOUNT TRANSFORMER		SILT FENCE		
FOUND IRON PIPE		OVERHEAD ELECTRIC		
SET IRON PIPE		FORCE MAIN		

ABBREVIATIONS

BASE LINE	BL	INVERT ELEVATION	IE
LONG CORD OF CURVE	CHD	LENGTH OF CURVE	ARC
CURB AND GUTTER	C&G	MANHOLE	MH
CATCH BASIN	CB	NORMAL WATER LEVEL	NWL
CENTERLINE	CL	POINT OF CURVATURE	PC
EDGE OF PAVEMENT	EOP	POINT OF TANGENCY	PT
FINISHED FIRST FLOOR	FFF	TANGENCY OF CURVE	TAN
FINISHED GRADE	FG	POINT OF VERTICAL INTERSECTION	PVI
FLOW LINE	FL	RADIUS	R
FLOODPLAIN	FP	RIGHT OF WAY	ROW
ORDINARY HIGH WATER MARK	OHWM	SANITARY SEWER	SAN
TOP OF BANK	TOB	STORM SEWER	STW
TOP OF CURB	TOC	TOP OF FOUNDATION	TOF
TOP OF WALK	TOW	WATER MAIN	WM



WAUKESHA STATEMENT

ALL SITE IMPROVEMENTS AND CONSTRUCTION SHOWN ON THE PLANS SHALL CONFORM TO THE CITY OF WAUKESHA DEVELOPMENT HANDBOOK & INFRASTRUCTURE SPECIFICATIONS. WHERE THE PLANS DO NOT COMPLY, IT SHALL BE THE SOLE RESPONSIBILITY AND EXPENSE OF THE DEVELOPER TO MAKE REVISIONS TO THE PLANS AND/OR CONSTRUCTED INFRASTRUCTURE TO COMPLY.

UTILITY NOTE

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Mark R. Madsen
1-4-2023

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OWNER

ERICKSON ENTERPRISES II, LLC.
TRACEY ERICKSON
250 S. DIVERSATECH DRIVE
MANTENO, IL 60450
OFFICE: 815-468-1100
EMAIL: terickson@peak-inc.net

GOVERNING AGENCIES CONTACTS

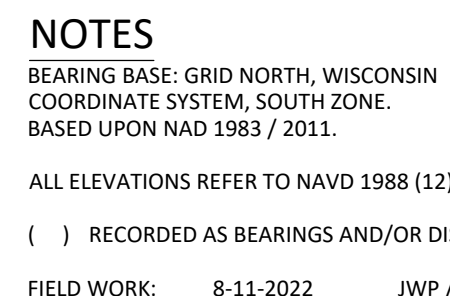
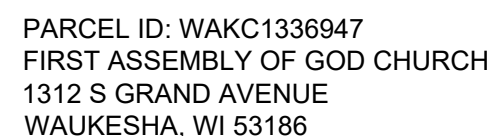
CITY OF WAUKESHA - PUBLIC WORKS DIVISION ALEX DAMIEN, INTERIM DIRECTOR OFFICE: 262-524-3600 EMAIL: adamien@waukesha-wi.gov	CITY OF WAUKESHA - COMMUNITY DEVELOPMENT JENNIFER ANDREWS, DIRECTOR OFFICE: 262-524-3750 EMAIL: jandrews@waukesha-wi.gov
CITY OF WAUKESHA - ENGINEERING DIVISION DAVID BUECHL, GENERAL OFFICE: 262-524-3582 EMAIL: dbuechl@waukesha-wi.gov	CITY OF WAUKESHA - COMMUNITY DEVELOPMENT DOUG KOHLER, PLANNER OFFICE: 262-524-3756 EMAIL: dkohler@waukesha-wi.gov
CITY OF WAUKESHA - ENGINEERING DIVISION JONATHAN SCHAEKAHM, STORMWATER EMAIL: jschapekahm@waukesha-wi.gov	CITY OF WAUKESHA - COMMUNITY DEVELOPMENT CHARLIE GRIFFITH, ASSOCIATE PLANNER OFFICE: 262-524-3529 EMAIL: cgriffith@waukesha-wi.gov
CITY OF WAUKESHA - ENGINEERING DIVISION DERRIN WOLFORD, TRAFFIC EMAIL: dwolford@waukesha-wi.gov	CITY OF WAUKESHA - COMMUNITY DEVELOPMENT KRISTIN STONE, BUILDING INSPECTION OFFICE: 262-524-3530 EMAIL: kstone@waukesha-wi.gov
CITY OF WAUKESHA - ENGINEERING DIVISION CHRIS LANGEMAK, SANITARY SEWER EMAIL: clangemak@waukesha-wi.gov	WAUKESHA WATER UTILITY CHRIS WALTERS, TECHNICAL SERVICES MGR. OFFICE: 262-521-5272 EMAIL: cwalters@waukesha-water.com
CITY OF WAUKESHA - ENGINEERING DIVISION JEFF HERNKE, STREET LIGHTING OFFICE: 262-524-3592 EMAIL: jhernke@waukesha-wi.gov	WAUKESHA WATER UTILITY TOM KRAUSE, PERMITTING OFFICE: 262-521-5272 EMAIL: tkrause@waukesha-water.com
CITY OF WAUKESHA - FIRE DEPARTMENT BRIAN CHARLESWORTH, FIRE MARSHALL OFFICE: 262-524-3651 EMAIL: bcharlesworth@waukesha-wi.gov	

PUBLIC UTILITY CONTACTS

TIME WARNER CABLE STEVE CRAMER UTILITY COORDINATOR OFFICE: 414-277-4045 EMAIL: steve.cramer@twcable.com EMERGENCY NUMBER: (800) 627-2288	WE-ENERGIES TOM SCHULTZ OFFICE: 262-552-3229 EMAIL: tom.schultz@we-energies.com NATURAL GAS EMERGENCY: (800) 261-5325 ELECTRICAL EMERGENCY: (800) 662-4797
AT&T MIKE TOYEK OFFICE: 262-636-0549 EMAIL: mt1734@att.com	AMERICAN TRANSMISSION COMPANY BRIAN MCGEE OFFICE: 262-506-6895 EMAIL: bmcgee@atcllc.com EMERGENCY NUMBER: (800) 972-5341
TDS TELECOM SOUTHEAST WISCONSIN OFFICE: 877-483-7142	

Parcel 2:
That part of the Southeast 1/4 of Section 10, in Township 6 North, Range 19 East, in the City of Waukesha, Waukesha County, Wisconsin, bounded and described as follows: Commencing at the Southwest corner of said 1/4 Section; thence North 88 degrees 25 minutes East along the South line of said 1/4 Section 967.00 feet; thence North 50.02 feet to a point in the North line of Sunset Drive, said point being the point of beginning of the line to be described; thence continuing North 154.96 feet; thence North 88 degrees 25 minutes East parallel to the South line of said 1/4 Section 150.00 feet; thence South 154.98 feet to a point in the North line of said Sunset Drive; thence South 88 degrees 25 minutes West along the North line of said Sunset Drive, being parallel to and 50.00 feet distant from the South line of said 1/4 Section 150.00 feet to the point of beginning.

Parcel 2:
That part of the Southeast 1/4 of Section 10, in Township 6 North, Range 19 East, in the City of Waukesha, Waukesha County, Wisconsin, bounded and described as follows: Commencing at the Southwest corner of said 1/4 Section; thence North 88 degrees 25 minutes East along the South line of said 1/4 Section 967.00 feet; thence North 50.02 feet to a point in the North line of Sunset Drive, said point being the point of beginning of the line to be described; thence continuing North 154.96 feet; thence North 88 degrees 25 minutes East parallel to the South line of said 1/4 Section 150.00 feet; thence South 154.98 feet to a point in the North line of said Sunset Drive; thence South 88 degrees 25 minutes West along the North line of said Sunset Drive, being parallel to and 50.00 feet distant from the South line of said 1/4 Section 150.00 feet to the point of beginning.









































NOTES
BEARING BASE: GRID NORTH, WISCONSIN
COORDINATE SYSTEM, SOUTH ZONE.
BASED UPON NAD 1983 / 2011.

ALL ELEVATIONS REFER TO NAVD 1988 (12)

FIELD WORK: 8-11-2022 JWP / KRF

LEGEND

- | | | | | | | | | | | | |
|---|------------------|---|-------------------|---|-----------------------|---|-----------|---|-------------------------|---|---------------------|
|  | SANITARY MANHOLE |  | WATER MANHOLE |  | POWER POLE |  | GAS MAIN |  | DECIDUOUS TREE |  | CONCRETE NAIL FOUND |
|  | SANITARY SEWER |  | CATCH BASIN |  | GUY WIRE |  | GAS METER |  | CONIFEROUS TREE |  | 3/4\" REBAR FOUND |
|  | CLEAN OUT |  | DOWNSPOUT |  | PAD MOUNT TRANSFORMER |  | GAS VALVE |  | BUSH |  | MISC. MANHOLE |
|  | HYDRANT |  | ELECTRIC PEDESTAL |  | COMMUNICATION MANHOLE |  | SIGN |  | GUARD POST | | |
|  | WATER VALVE |  | ELECTRIC METER |  | COMMUNICATION BOX |  | MAILBOX |  | CHISEL \"X\" FOUND | | |
|  | WATER MAIN |  | ELECTRIC LINE |  | COMMUNICATION LINE |  | HAND RAIL |  | 1-1/4\" IRON PIPE FOUND | | |
|  | OVERHEAD WIRES |  | ELECTRIC MANHOLE |  | LIGHT POLE |  | FENCE |  | \"PK\" NAIL FOUND | | |

EXISTING UTILITY DATA

SAN 1	SAN 3	STM 2	STM 4	IE. 6° E 851.75 IE. 8° NE 853.85	(CAN'T OPEN) INVERTS N/S	CB 5	IE. 12° NW 853.84	IE. 12° W 850.85
RIM 852.14	RIM 855.70	RIM 851.46	RIM 857.79	IE. 12° SW 851.75 (FLOWS SW)				
IE. 8° S	IE. 8° N/S 844.80	IE. 12° N 843.36	IE. 12° SE 852.29		CB 2	RIM 858.31		CB 8
IE. 18° E/W		IE. 27° E 843.31	IE. 27° SW 847.09		RIM 851.22	IE. 12° W 855.16		RIM 854.41
		IE. 30° W 843.31 (FLOWS WEST)	IE. 27° N 847.09 (FLOWS SW)		IE. 12° SW 843.22	IE. 12° W 854.21		IE. 10° NW 852.7°
SAN 2	STM MH 1		STM MH 7					IE. 12° NE 852.31
RIM 857.39	RIM 851.95	IE. 18° W 844.15	RIM 855.80	IE. 27° N/S 848.10	IE. 27° E/W 843.72 (FLOWS WEST)	CB 6		
IE. 18° E 842.99	IE. 18° W 842.69		STM 5	IE. 12° E 850.30		CB 8		
IE. 18° E 842.99	IE. 18° S 844.10	STM 3	RIM 858.13	IE. 12° W 850.20		IE. 12° W 850.20		IE. 12° W 854.09
IE. 8° S 843.99		IE. 12° S 850.14	IE. 12° E 855.88	IE. 12° SW 851.75 (FLOWS SOUTH)	CB 3	RIM 856.61		
		IE. 27° NE 846.54				IE. 12° N 851.36		
		IE. 27° W 846.34						

SOIL MAP LEGEND

- | | | |
|-----|---|---|
| WhA | - | Warsaw silt loam, 0 to 2 percent slopes |
| WeB | - | Warsaw loam, 2 to 6 percent slopes |
| GP | - | Gravel pit |

WAUKESHA EXPRESS WASH
EXISTING CONDITIONS
FOR
ERICKSON ENTERPRISES II, LLC.
CITY OF WAUKESHA, WAUKESHA COUNTY, WISCONSIN

[illegible]

PROJ. MGR: MRM
DRAFTED: SCB
DATE: 12-16-2022
CHECKED: MRM
DATE: 01-03-2023

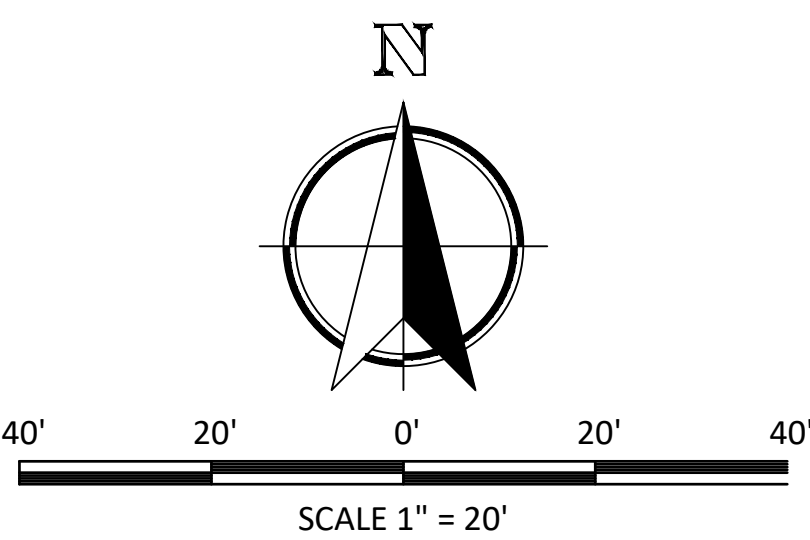
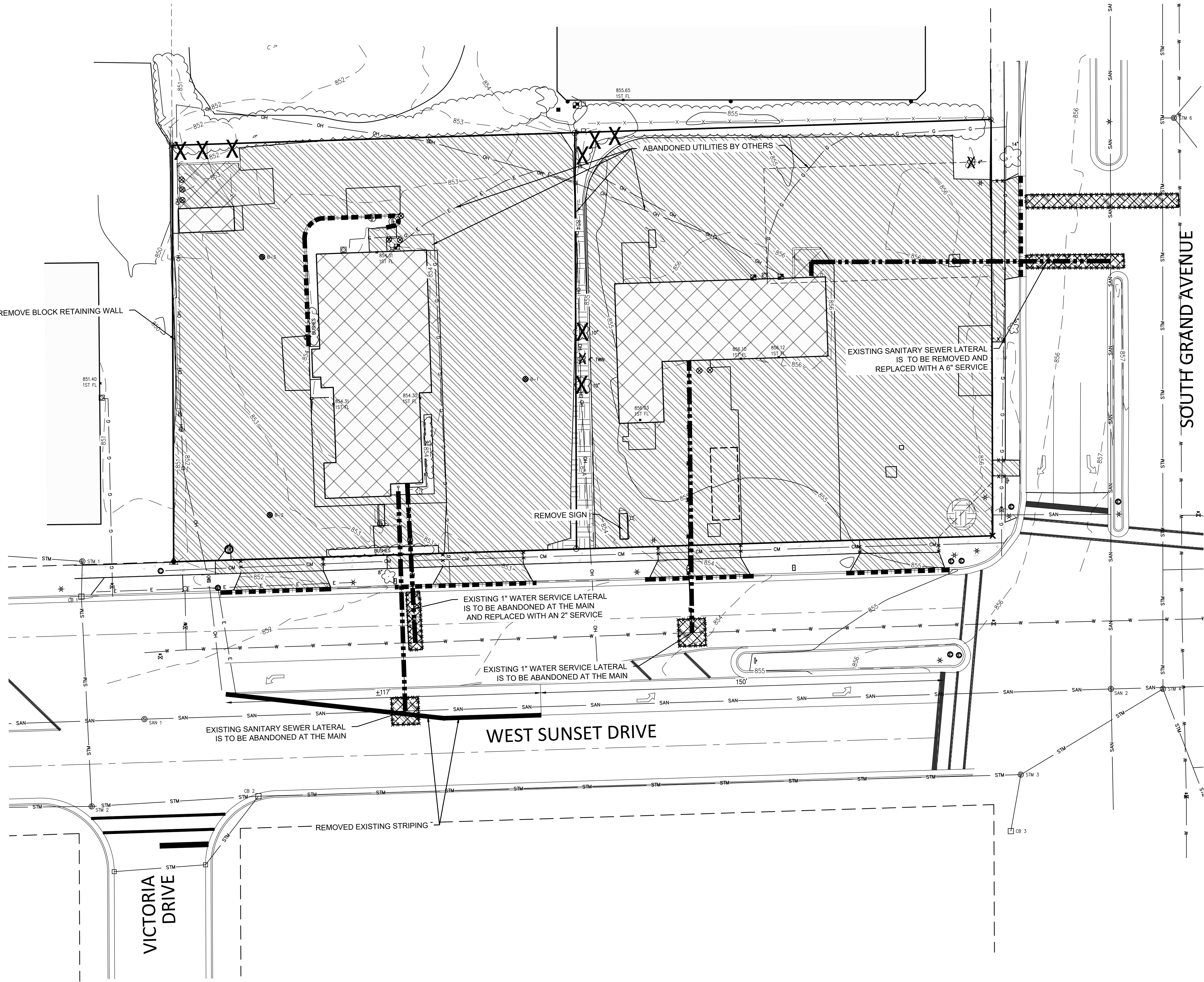
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SHEET
C-2



UTILITY NOTE

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DEMOLITION NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL AT A LOCATION APPROVED (BY ALL GOVERNING AUTHORITIES) OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PAVEMENTS, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLY COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION, SITE CLEARING, AND DISPOSAL.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE LAND SURVEYOR AND ENGINEER OF RECORD ASSUME NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ON-SITE LOCATIONS OF EXISTING UTILITIES.
- ALL EXISTING SEWERS, PIPING, AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CALL DIGGERS HOTLINE AT 1-800-242-8511 A MINIMUM OF 3 WORKING DAYS PRIOR TO EXCAVATION ACTIVITIES TO LOCATE AND MARK ALL UNDERGROUND UTILITIES.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HIRE A PRIVATE UTILITY LOCATING SERVICE TO LOCATE AND MARK ALL UNDERGROUND PRIVATE UTILITIES.
- CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH SIGNS, FENCING, BARRICADES, ENCLOSURES, ETC., (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY THE CONSTRUCTION MANAGER. TEMPORARY CLOSURE OF ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING THE COURSE OF WORK.
- PRIOR TO DEMOLITION OCCURRING, THE CITY OF APPLETON EROSION CONTROL PERMIT AND WDNR WRAPP PERMIT SHALL BE OBTAINED. ALL EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE DEMOLITION CAN OCCUR. ORANGE CONSTRUCTION FENCE TO BE INSTALLED ALONG ALL WETLAND AREAS AS SHOWN ON THE SITE GRADING PLAN.
- EXISTING ITEMS TO REMAIN INCLUDING, BUT NOT LIMITED TO, FENCES, SIGNS, UTILITIES, BUILDINGS, TREES, PAVEMENTS, AND LIGHT POLES SHALL BE CAREFULLY PROTECTED DURING THE DEMOLITION PROCESS. ANY DAMAGE SUSTAINED TO ITEMS TO REMAIN IN PLACE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE OWNER.
- PROPERTY CORNERS AND BENCHMARKS SHALL BE CAREFULLY PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL LIMIT PAVEMENT REMOVALS TO ONLY THOSE AREAS WHERE IT IS NECESSARY AS SHOWN ON THESE CONSTRUCTION PLANS. CONCRETE SIDEWALK AND CURB & GUTTER IS TO BE REMOVED TO NEAREST JOINT IN ORDER TO ACCOMMODATE PROPOSED IMPROVEMENTS. IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENTS AND/OR OTHER IMPROVEMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPAIR OF DAMAGED PAVEMENT AND OTHER ITEMS AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR TO REMOVE ALL EXISTING SIGNS WITHIN PROPERTY LIMITS EXCEPT FOR THOSE CALLED TO BE SALVAGED TO THE OWNER OR SALVAGED AND RELOCATED.
- IF PREVIOUSLY UNIDENTIFIED HAZARDOUS, CONTAMINATED MATERIALS, OR OTHER ENVIRONMENTAL RELATED CONDITIONS ARE DISCOVERED, STOP WORK IMMEDIATELY AND NOTIFY THE PROJECT CONSTRUCTION MANAGER FOR ACTION TO BE TAKEN. DO NOT RESUME WORK UNTIL SPECIFICALLY AUTHORIZED BY THE CONSTRUCTION MANAGER.
- AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED, EXCESS, WASTE, STOCKPILED AND SPOIL MATERIAL IN ACCORDANCE WITH SECTION 205.3.12 OF THE "STATE SPECIFICATIONS". THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

DEMOLITION LEGEND

- ***** SAW CUT PAVEMENT (FULL DEPTH)
- REMOVE CURB & GUTTER
- [Hatched Box] REMOVE PAVEMENT
- [Crossed Box] REMOVE BUILDING/DUMPSTER ENCLOSURE
- [Stippled Box] REMOVE LANDSCAPING
- [X in Circle] REMOVE TREES
- [V in Circle] REMOVE SIGN

Nielsen Madsen + Barber

CIVIL ENGINEERS AND LAND SURVEYORS

1458 Horizon Blvd. Suite 200, Racine, WI. 53406

Tele: (262)634-5588 Website: www.nmbssc.net

WAUKESHA EXPRESS WASH
SITE DEMOLITION PLAN
FOR
ERICKSON ENTERPRISES II, LLC.
CITY OF WAUKESHA, WAUKESHA COUNTY, WISCONSIN

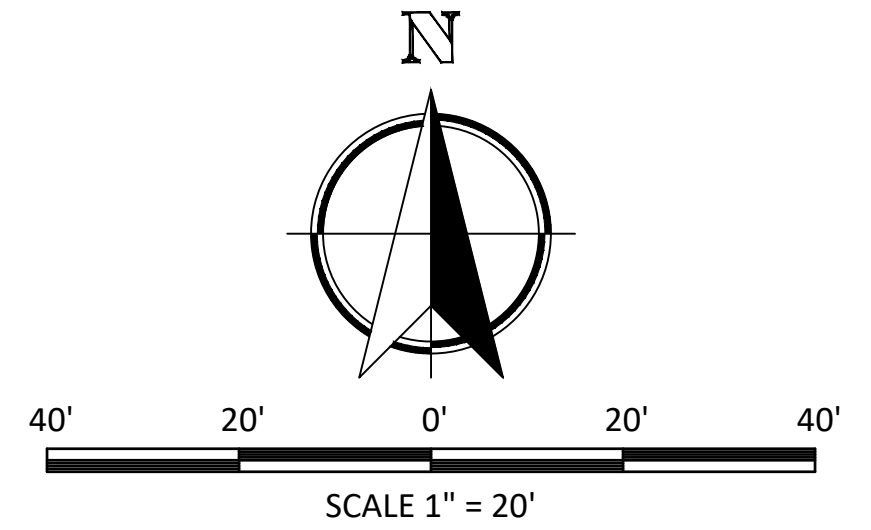
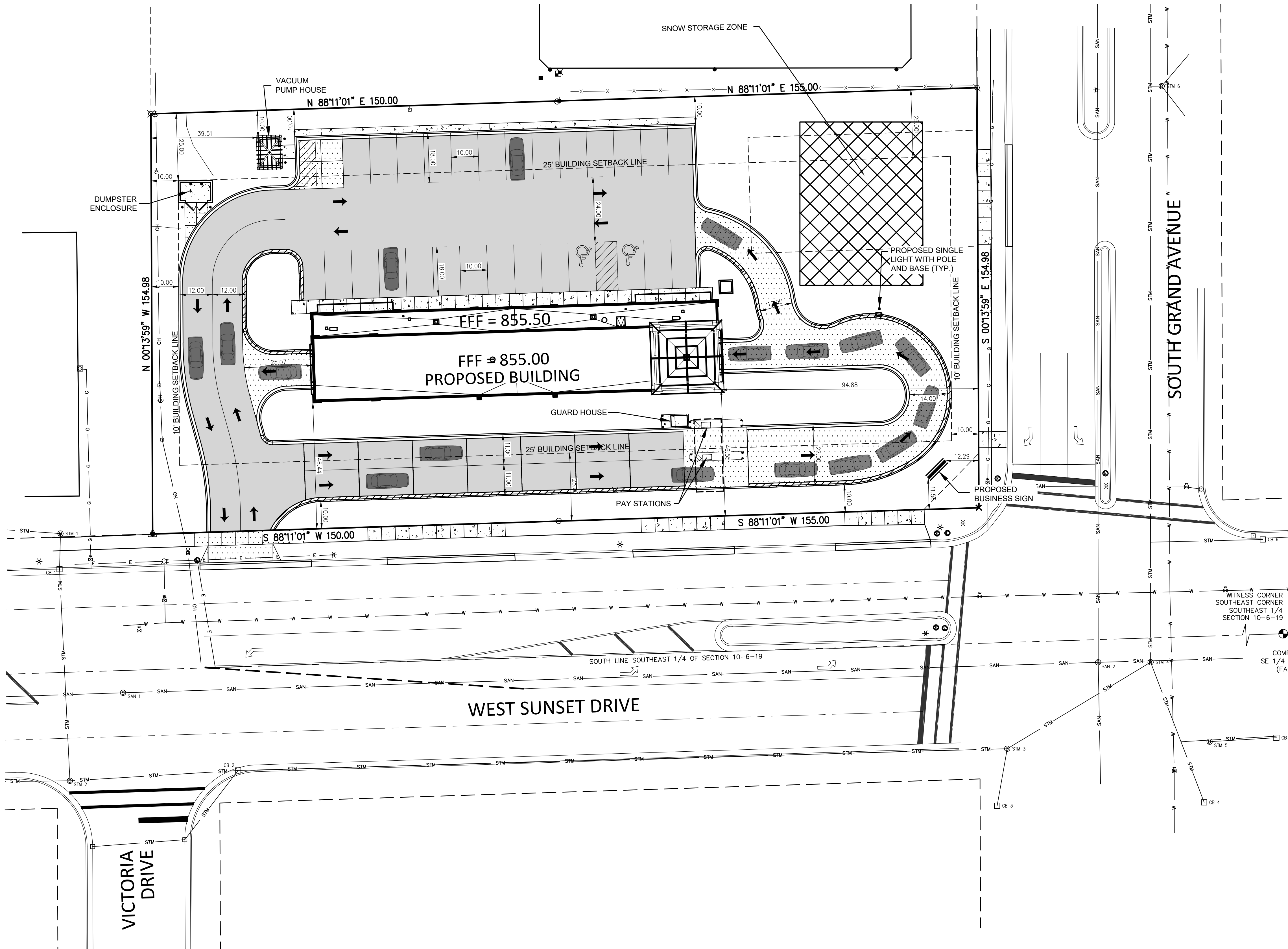
REVISION		BY	DATE
NO.			
PROJ. MGR:		MRM	
DRAFTED:		ALJ	
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EXISTING SITE INFORMATION

47,251 s.f.	TOTAL LOT AREA
2,649 s.f.	GREEN SPACE AREA

PROPOSED SITE INFORMATION

47,251 s.f.	TOTAL LOT AREA
5,007 s.f.	BUILDING AREAS
22,248 s.f.	PAVEMENT AREAS
19,996 s.f.	GREEN SPACE AREA
57.68%	IMPERVIOUS SURFACE RATIO

ZONING INFORMATION

ZONING DISTRICT - B-3

STREET YARD SETBACK	25 FEET
SIDE YARD SETBACK	10 FEET
REAR YARD SETBACK	25 FEET

PARKING INFORMATION

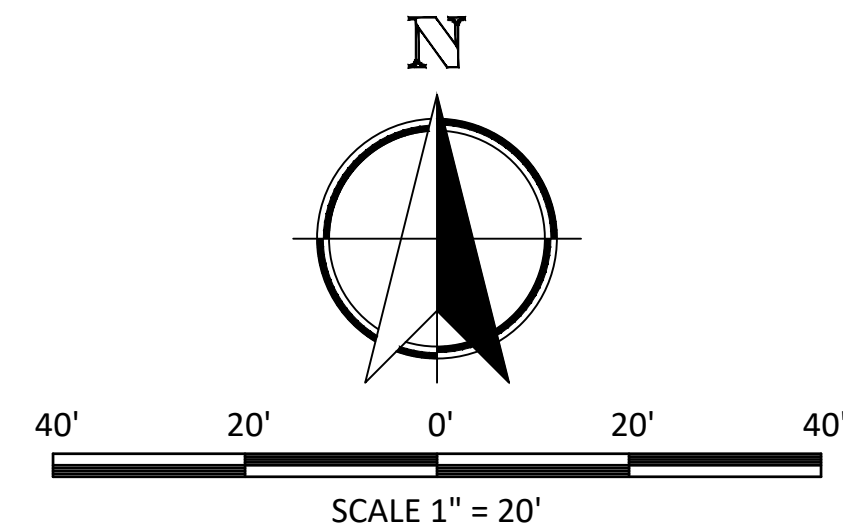
PROPOSED

HC STALLS	2
STANDARD STALLS	26
<hr/> TOTAL STALLS	<hr/> 28
STACKING BAYS	2
STALLS PER BAY	7
<hr/> TOTAL SPACES	<hr/> 14
PARKING LOT	8548 s.f.

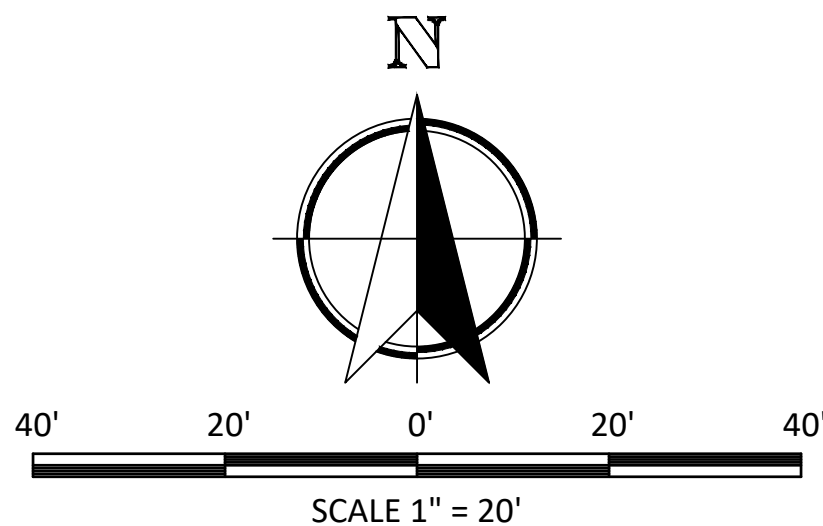
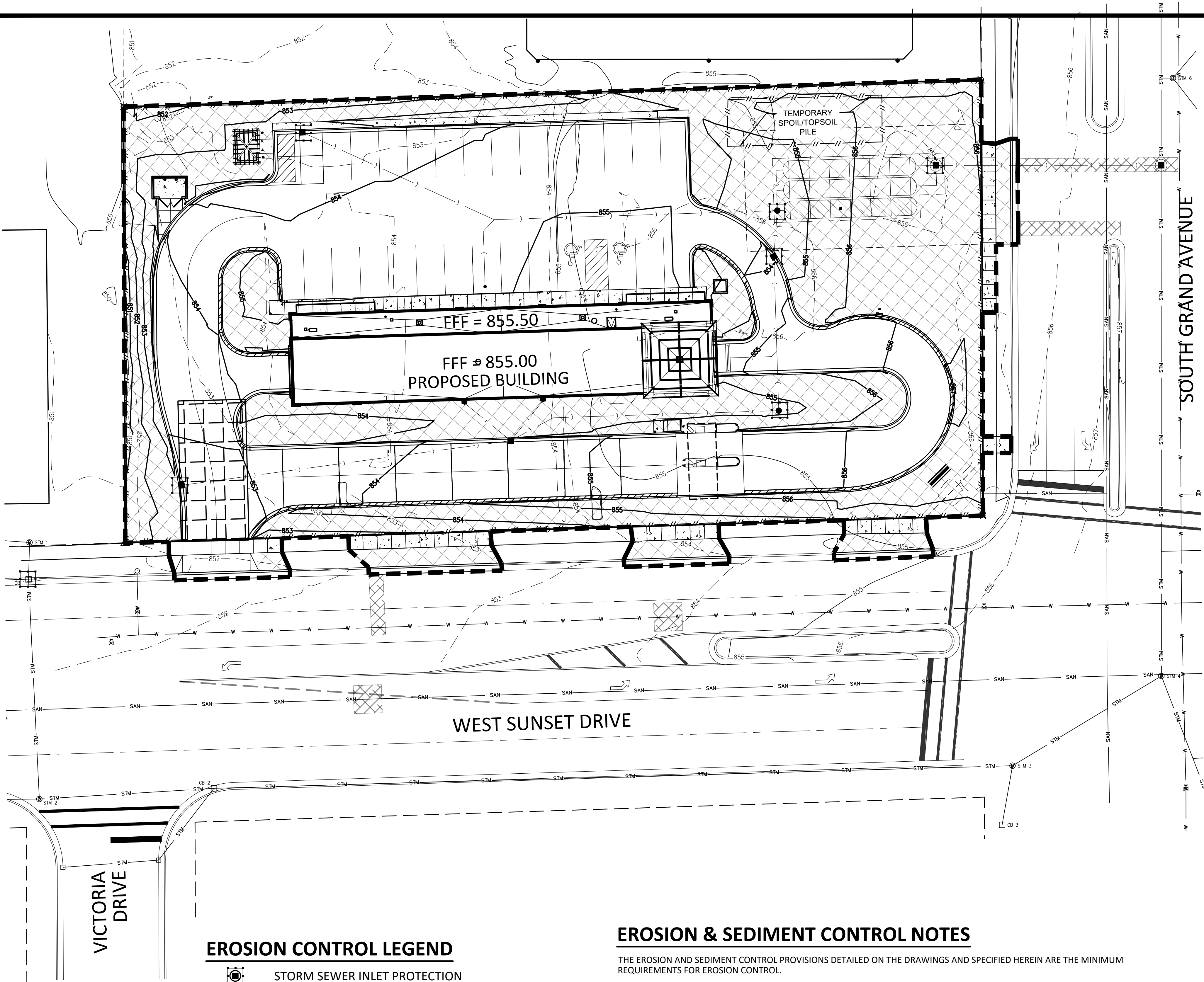
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WAUKESHA EXPRESS WASH
DIMENSIONED SITE PLAN
FOR
ERICKSON ENTERPRISES II, LLC.
CITY OF WAUKESHA, WAUKESHA COUNTY, WISCONSIN

[illegible]



ISSUE FOR APPROVAL: 01-04-2023



EROSION & SEDIMENT CONTROL NOTES

THE CONTRACTOR SHALL MAINTAIN A MONITORING RECORD WHEN THE LAND DISTURBING CONSTRUCTION ACTIVITY INVOLVES ONE OR MORE ACRES. THE MONITORING RECORD SHALL CONTAIN AT LEAST THE FOLLOWING INFORMATION:

- THE CONDITION OF THE EROSION AND SEDIMENT CONTROL PRACTICES AT THE INTERVALS SPECIFIED ABOVE.
- A DESCRIPTION OF THE MAINTENANCE CONDUCTED TO REPAIR OR REPLACE EROSION AND SEDIMENT CONTROL PRACTICES. EROSION AND SEDIMENT CONTROL INSPECTIONS AND ENFORCEMENT ACTIONS MAY BE CONDUCTED BY WDNR, THE CITY OF WAUKESHA OR THEIR AUTHORIZED AGENTS DURING AND AFTER THE CONSTRUCTION OF THIS PROJECT.

EROSION AND SEDIMENT CONTROL INSPECTIONS AND ENFORCEMENT ACTIONS MAY BE CONDUCTED BY WDNR, THE CITY OF WAUKESHA OR THEIR AUTHORIZED AGENTS DURING AND AFTER THE CONSTRUCTION OF THIS PROJECT. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY STATE OR LOCAL INSPECTORS AND/OR THE ENGINEER OF RECORD, SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST.

ALL SEDIMENT AND EROSION CONTROL DEVICES, INCLUDING PERIMETER EROSION CONTROL MEASURES SUCH AS CONSTRUCTION ENTRANCES, SILT FENCE AND EXISTING INLET PROTECTION SHALL BE INSTALLED PRIOR TO COMMENCING EARTH DISTURBING ACTIVITIES. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES UNTIL THE SITE HAS ESTABLISHED A VEGETATIVE COVER AND IS STABILIZED.

INSTALL SILT FENCE PER SECTION 628 OF THE "STATE SPECIFICATIONS" AND WDNR TECHNICAL STANDARD 1056 AT THE LOCATIONS SHOWN ON THE PLAN. ERECT SILT FENCE PRIOR TO STARTING A CONSTRUCTION OPERATION THAT MIGHT CAUSE SEDIMENTATION OR SILTATION AT THE SITE OF THE PROPOSED SILT FENCE. CONTRACTOR SHALL INSTALL SILT FENCING AT DOWNSLOPE SIDE OF STOCKPILES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, MAINTENANCE AND REMOVAL OF ALL REQUIRED SILT FENCE MATERIAL.

CONSTRUCTION FENCE SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. CONSTRUCTION FENCING SHALL BE INSTALLED 3 TO 5 FEET DOWNSTREAM OF ANY SILT FENCE TO ALLOW FOR SEDIMENT REMOVAL, GENERAL MAINTENANCE AND REPLACEMENT OF THE EROSION CONTROL DEVICE. MATERIAL FOR CONSTRUCTION FENCE SHALL BE HIGH DENSITY POLYETHYLENE MESH SUPPLIED IN EITHER 50-FOOT OR 100-FOOT ROLLS. THE FENCING SHALL BE A MINIMUM OF 4 FEET HIGH AND SHALL BE WEATHER-, CHEMICAL- AND ULTRAVIOLET-RESISTANT TO INCREASE THE PRODUCT LIFE. FENCING SHALL BE SUPPORTED AT MAXIMUM EIGHT-FOOT (8') INTERVALS BY METAL T-POSTS OR OTHER APPROVED METHODS SUFFICIENT TO KEEP THE FENCE UPRIGHT AND IN PLACE. WOODEN STAKES AND REBAR POSTS ARE NOT CONSIDERED AN APPROVED METHOD OF SUPPORT. DEFAULT COLOR OF FENCING SHALL BE ORANGE UNLESS OTHERWISE SPECIFIED IN THE CONTRACT. CONSTRUCTION FENCE MATERIAL SHALL BE SECURED TO THE METAL T-POSTS BY PLASTIC ZIP OR WIRE TIES. FENCING AND POSTS SHALL BECOME PROPERTY OF THE CONTRACTOR AT PROJECT COMPLETION AND SHALL BE REMOVED FROM THE SITE.

ALL PROPOSED STORM SEWER STRUCTURES AND ADJACENT EXISTING STORM INLETS SHALL HAVE A LAYER OF GEOTEXTILE FABRIC (TYPE "FF") INSTALLED BETWEEN THE FRAME & GRATE TO PREVENT SEDIMENT OR SILT FROM ENTERING THE SYSTEM. THE INLET PROTECTION SHALL BE INSPECTED BY THE CONTRACTOR AND REPLACED EVERY 14 DAYS AND AFTER EACH RAINFALL EVENT. FABRIC TO BE REPLACED AS NEEDED TO MEET FIELD CONDITIONS.

THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING WIND EROSION (DUST) DURING CONSTRUCTION AT HIS/HER EXPENSE (WHEN NECESSARY OR AS REQUIRED BY LOCAL INSPECTORS AND/OR ENGINEER OF RECORD).

EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.):

- PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
- BACKFILL, COMPACT AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
- ANY WATER PUMPED FROM PITS, TRENCHES, WELLS OR PONDS SHALL BE DISCHARGED INTO A SEDIMENTATION BASIN OR FILTERING TANK IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061 AND BMP'S PRIOR TO RELEASE INTO THE STORM SEWER, RECEIVING STREAM OR DRAINAGE DITCH. PUMPED WATER CAN BE TREATED IN FILTER BAGS, STONE FILTERS OR SIMILAR DEVICES. QUALITY OF PUMPED WATER SHALL BE CONTINUOUSLY MONITORED DURING PUMPING OPERATIONS.

CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL LOCATIONS OF VEHICLE INGRESS/EGRESS POINTS. CONTRACTOR IS RESPONSIBLE TO COORDINATE LOCATION(S) WITH THE PROPER AUTHORITIES, PROVIDE NECESSARY FEES AND OBTAIN ALL REQUIRED APPROVALS OR PERMITS. ADDITIONAL CONSTRUCTION ENTRANCES, OTHER THAN SHOWN ON THE PLANS, MUST HAVE PRIOR APPROVAL BY THE CITY OF WAUKESHA.

DITCH CHECKS AND APPLICABLE EROSION NETTING/MATTING SHALL BE INSTALLED IMMEDIATELY AFTER COMPLETION OF GRADING EFFORTS WITHIN DITCHES/SWALES TO PREVENT SOIL TRANSPORTATION.

CONCRETE WASHOUT BASIN SHALL BE LOCATED ON SITE IN AN AREA THAT IS STABILIZED AND DRAINS INTO SUITABLE SEDIMENT TRAPPING OR SETTLING DEVICE. MONITOR THE WASHOUT BASIN FOR SEDIMENT ACCUMULATION, CLOGGED HOSES, APPROPRIATE WATER LEVELS, AND EFFECTIVENESS.

ALL EXPOSED SOIL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 14 DAYS AND REQUIRE VEGETATIVE COVER FOR LESS THAN 1 YEAR, REQUIRE TEMPORARY SEEDING FOR EROSION CONTROL. SEEDING FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059 AND THE CITY OF WAUKESHA ORDINANCE.

ALL DISTURBED SLOPES EXCEEDING 5:1, SHALL BE STABILIZED WITH CLASS I, TYPE A EROSION MATTING OR APPLICATION OF A WISCONSIN DEPARTMENT OF TRANSPORTATION (WisDOT) APPROVED (POLYMER) SOIL STABILIZATION TREATMENT OR A COMBINATION THEREOF, AS REQUIRED. EROSION MATTING AND/OR NETTING USED ONSITE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND WDNR TECHNICAL STANDARDS 1052.

PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEEPED AND/OR SCRAPPED TO REMOVE ACCUMULATED SOIL, DIRT AND/OR DUST AT THE END OF EACH WORK DAY AND AS REQUESTED BY THE CITY OF WAUKESHA.

EROSION CONTROL MEASURES SHALL BE REMOVED ONLY AFTER SITE CONSTRUCTION IS COMPLETE WITH ALL SOIL SURFACES HAVING AN ESTABLISHED VEGETATIVE COVER.

AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED, EXCESS, WASTE, STOCKPILED AND SPOIL MATERIAL IN ACCORDANCE WITH SECTION 205.3.12 OF THE "STATE SPECIFICATIONS". THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

EROSION & SEDIMENT CONTROL NOTES

THE EROSION AND SEDIMENT CONTROL PROVISIONS DETAILED ON THE DRAWINGS AND SPECIFIED HEREIN ARE THE MINIMUM REQUIREMENTS FOR EROSION CONTROL.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PREPARE ANY REVISIONS, ADJUSTMENTS OR PROPOSED ALTERATIONS TO THE CONSTRUCTION SEQUENCING AND/OR EROSION CONTROL PLANS. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ENGINEER OF RECORD AND REGULATORY OFFICIALS OF ANY CHANGES TO THE EROSION CONTROL AND STORMWATER MANAGEMENT PLANS. MODIFICATIONS TO THE APPROVED EROSION CONTROL DESIGN IN ORDER TO MEET UNFORESEEN FIELD CONDITIONS IS ALLOWED IF MODIFICATIONS CONFORM TO BEST MANAGEMENT PRACTICES (BMP'S). ALL SIGNIFICANT DEVIATIONS FROM THE PLANS MUST BE SUBMITTED AND APPROVED BY THE CITY OF WAUKESHA.



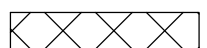


THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, MAINTENANCE, REPAIR AND REMOVAL OF ALL EROSION CONTROL DEVICES REQUIRED FOR THE PROJECT WHICH SHALL BE DONE IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (DNR) TECHNICAL STANDARDS (REFERRED TO AS BMP'S) AND THE CITY OF WAUKESHA ORDINANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL CONTROL MEASURES WHICH MAY BE NECESSARY TO MEET UNFORESEEN FIELD CONDITIONS. SEE THE CITY OF WAUKESHA AND WDNR EROSION CONTROL PERMITS FOR ADDITIONAL DETAILS OR REQUIREMENTS.

ALL EROSION AND SEDIMENT CONTROL MEASURES AND DEVICES SHALL BE INSPECTED BY THE CONTRACTOR AS REQUIRED IN THE WISCONSIN ADMINISTRATIVE CODE (SPS 360.21) AND MAINTAINED PER SPS 360.22.

INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE ROUTINE (ONCE PER WEEK MINIMUM) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES. SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE IN WORKING ORDER AT THE END OF EACH WORK DAY. THE CONTRACTOR SHALL CHECK THE EROSION AND SEDIMENT CONTROL PRACTICES FOR MAINTENANCE NEEDS AT ALL THE FOLLOWING INTERVALS UNTIL THE SITE IS STABILIZED:

- AT LEAST WEEKLY.
- WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. A RAINFALL EVENT SHALL BE CONSIDERED TO BE THE TOTAL AMOUNT OF RAINFALL RECORDED IN ANY CONTINUOUS 24-HOUR PERIOD. ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSPECTED WITHIN 24 HOURS OF ALL RAIN EVENTS EXCEEDING 0.5 INCHES. IMMEDIATELY REPAIR ANY DAMAGE OBSERVED DURING THE INSPECTION.

EROSION CONTROL LEGEND

-  STORM SEWER INLET PROTECTION (TYPE "C" UNLESS SPECIFIED DIFFERENTLY)
-  SILT FENCE
-  SLOPE EROSION MAT (CLASS 1, TYPE A, URBAN)
-  STONE TRACKING PAD
-  LIMITS OF DISTURBANCE (50,083 S.F. = 1.15 AC)



UTILITY NOTE

EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE TYPE, LOCATION, SIZE AND ELEVATION OF UNDERGROUND UTILITIES AS THEY DEEM NECESSARY FOR PROPOSED UTILITY CONNECTIONS AND / OR TO AVOID DAMAGE THERETO, CONTRACTOR SHALL CALL "DIGGER'S HOTLINE" PRIOR TO ANY CONSTRUCTION.



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Tele: (262)634-5588 Website: www.nmbssc.net

WAUKESHA EXPRESS WASH
SITE EROSION CONTROL PLAN

FOR
ERICKSON ENTERPRISES II, LLC.
CITY OF WAUKESHA, WAUKESHA COUNTY, WISCONSIN

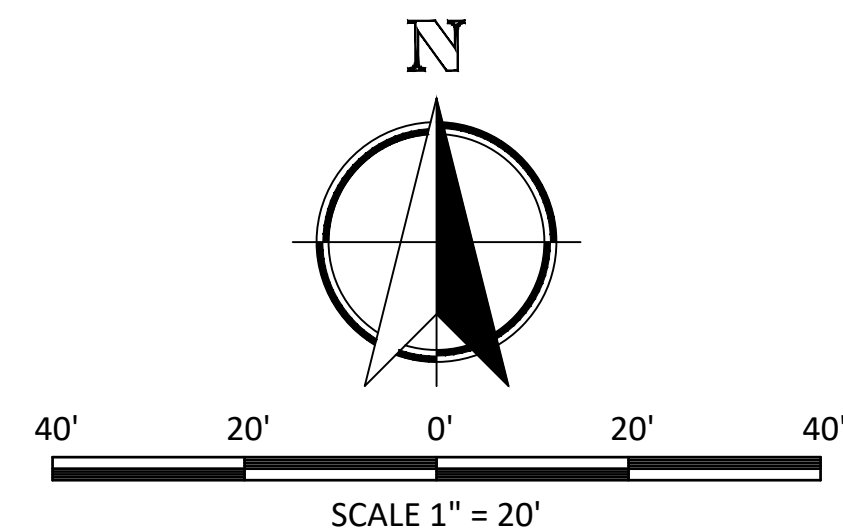
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DATE: 11-14-2022
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ISSUE FOR APPROVAL: 01-04-2023





UTILITY NOTE

EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE TYPE, LOCATION, SIZE AND ELEVATION OF UNDERGROUND UTILITIES AS THEY DEEM NECESSARY FOR PROPOSED UTILITY CONNECTIONS AND / OR TO AVOID DAMAGE THERETO, CONTRACTOR SHALL CALL "DIGGER'S HOTLINE" PRIOR TO ANY CONSTRUCTION.

WATER SERVICE NOTE

THE NEW 2" WATER SERVICE CONNECTION SHALL BE MADE BY THE WAUKESHA WATER UTILITY. THE SITE UTILITY CONTRACTOR SHALL PROVIDE TRENCH EXCAVATION AND SHORING, TRAFFIC CONTROL AND MEANS FOR LOWERING THE TAPPING MACHINE.

SITE UTILITY LEGEND

- < — PROPOSED 6" SANITARY SEWER
- W — PROPOSED 2" WATER SERVICE
- (— PROPOSED STORM SEWER (VARIOUS SIZES)

UTILITY CONSTRUCTION GENERAL NOTES

ALL APPLICATIONS AND CONNECTION FEES FOR WATER SERVICES MUST BE SUBMITTED AND PAID PRIOR TO CONNECTION TO THE PUBLIC SYSTEMS.

THE CONTRACTOR SHALL PROVIDE 7 DAYS NOTICE TO THE WAUKESHA WATER UTILITY (WWU) BEFORE COMMENCING CONSTRUCTION ON ANY WATERMAIN IMPROVEMENTS.

THE CONTRACTOR SHALL CONTACT WWU 72 HOURS PRIOR TO PROPOSED WATERMAIN SHUTDOWNS OR ANY WORK THAT MAY INTERFERE WITH EXISTING WATER SERVICE. ALL EXISTING VALVES, HYDRANTS, AND OTHER WATERMAIN INFRASTRUCTURE SHALL ONLY BE OPERATED BY WWU.

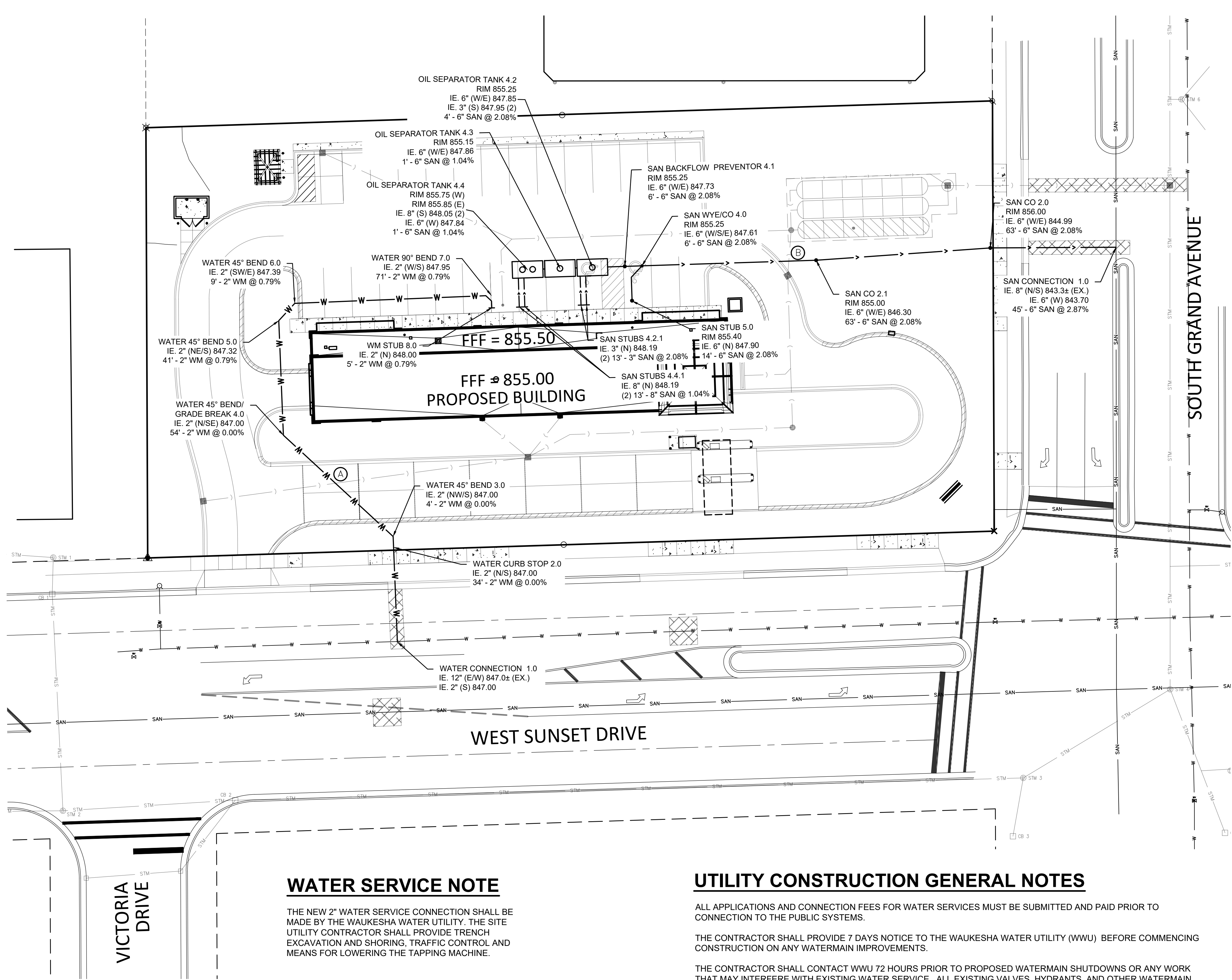
CONTRACTOR SHALL VERIFY ALL ELEVATIONS, LOCATIONS AND SIZES OF EXISTING SANITARY AND STORM SEWERS, WATER MAINS, GAS & ELECTRIC LINES AND OTHER ADJACENT UTILITIES PRIOR TO COMMENCING CONSTRUCTION. AS-BUILT (FIELD) DATA SHALL BE USED TO CHECK ALL PROPOSED UTILITY CROSSINGS FOR CONFLICTS.

CONTRACTOR SHALL CONTACT DIGGER'S HOTLINE A MINIMUM OF 72 HOURS BEFORE THE START OF CONSTRUCTION TO HAVE THE ADJACENT UNDERGROUND PUBLIC UTILITIES LOCATED. THE LOCATION OF EXISTING PRIVATE UTILITIES MAY NOT BE SHOWN ON THE PLANS AND SHOULD BE LOCATED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

ANY WATER PUMPED FROM PITS, TRENCHES, WELLS OR PONDS SHALL BE TREATED FOR SEDIMENT REMOVAL PRIOR TO DISCHARGE OFF-SITE. PUMPING OPERATIONS SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061. PUMPED WATER CAN BE TREATED IN RETENTION BASINS, FILTER BAGS, STONE FILTERS OR BY OTHER WDNR APPROVED METHODS. QUALITY OF PUMPED WATER SHALL BE CONTINUOUSLY MONITORED DURING PUMPING OPERATIONS.

THE EXACT LOCATION OF THE SANITARY SEWER LATERAL, DOMESTIC WATER LINE, FIRE PROTECTION LEAD, NATURAL GAS SERVICE, ELECTRIC, PHONE AND CABLE LINES (AS THEY ENTER THE BUILDING) SHALL BE PER THE ARCHITECTURAL OR MECHANICAL DRAWINGS.

AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED, EXCESS, WASTE, STOCKPILED AND SPOIL MATERIAL IN ACCORDANCE WITH SECTION 205.3.12 OF THE "STATE SPECIFICATIONS". THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.



SANITARY SEWER & WATERMAIN SPECIFICATIONS

MATERIALS FOR WATERMAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STATE OF WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES (SPS) AND WAUKESHA WATER UTILITY SPECIFICATIONS.

SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL BE CONSTRUCTED PER THE CITY OF WAUKESHA'S DEVELOPMENT HANDBOOK, THE CITY OF WAUKESHA'S STANDARD CONSTRUCTION SPECIFICATIONS AND THE WAUKESHA WATER UTILITY SPECIFICATIONS.

A 10-GAUGE TRACER WIRE SHALL BE INSTALLED THE ENTIRE LENGTH OF ALL PRIVATE SANITARY SEWERS AND LATERALS PER SPS 382.30(11)(h). THE TRACER WIRE SHALL BE EXTENDED TO THE SURFACE WITHIN THE PROPOSED STRUCTURES. FOR THE SANITARY SEWER LATERALS, THE TRACER WIRE SHALL BE EXTENDED TO THE SURFACE AT THE BUILDING WALL AND ALL OTHER SYSTEM LIMITS (FOR EACH SYSTEM INSTALLED) AND ENCLOSED IN A RISER BOX WITH "SEWER" ON THE COVER.

A 10-GAUGE TRACER WIRE SHALL BE INSTALLED THE ENTIRE LENGTH OF ALL PRIVATE WATER MAINS, HYDRANT LEADS, FIRE DEPARTMENT CONNECTION LEADS AND LATERALS PER SPS 382.40(8)(k). THE TRACER WIRE SHALL BE EXTENDED TO THE SURFACE AT THE BUILDING WALL AND ALL OTHER SYSTEM LIMITS (FOR EACH SYSTEM INSTALLED) AND ENCLOSED IN A RISER BOX WITH "WATER" OR "FDC" ON THE COVER. THE TRACER WIRE SHALL BE CONNECTED TO THE TRACER WIRE ON THE WATER MAIN.

- WIRE SPLICES SHALL BE IN ACCORDANCE WITH STANDARD ELECTRICAL PRACTICES. ACCEPTABLE WIRE SPLICES ARE BRASS SPLIT BOLTS, DRYCONN WATERPROOF CONNECTORS, SNAP-LOC MODEL LV 9500, OR APPROVED EQUAL. WIRE NUTS ARE NOT ACCEPTABLE
- BRANCH CONNECTIONS UTILIZING SPLIT BOLTS - SPLICE BRANCH TRACER WIRE TO MAIN TRACER WIRE USING THE FOLLOWING PROCEDURE: BARE TRACER WIRE ON MAIN LINE (DO NOT CUT); CONNECT BRANCH WIRE TO MAIN LINE WITH BRASS SPLIT BOLT; AND SEAL CONNECTION WITH RUBBER ELECTRICAL TAPE AND OVER WRAP WITH TWO LAYER OF POLYETHYLENE ADHESIVE TAPE 1-1/2" WIDE AND 8MM THICK.
- BRANCH CONNECTIONS UTILIZING OTHER APPROVED CONNECTORS - FOLLOW MANUFACTURER'S RECOMMENDATIONS.

SANITARY SEWER LATERAL PIPE MATERIAL SHALL BE FOUR-INCH (4") PVC CLASS SDR-35 WITH INTEGRAL BELL TYPE ELASTOMERIC JOINTS CONFORMING TO THE REQUIREMENTS OF ASTM D3034, ASTM D3212 AND F-789/P546 WITH RUBBER GASKETS. SANITARY LATERALS SHALL BE PROVIDED WITH A CLEANOUT AT THE BUILDING PER SPS 382.35. LATERAL CLEAN-OUT RISERS SHALL BE SIX-INCH (6") DIAMETER WITH EIGHT-INCH (8") DIAMETER FROST SLEEVE CONSTRUCTED OF THE SAME MATERIAL. THE CLEANOUT RISERS SHALL TERMINATE FOUR INCHES (4") BELOW FINISHED GRADE WITH A SCREW ON CAP. THE FROST SLEEVE SHALL BE BROUGHT UP TO JUST BELOW FINISHED GRADE AND COVERED WITH A NEENAH R-3487 FRAME WITH A SOLID LID.

SANITARY SEWER BACKFLOW PREVENTOR SHALL BE CONSTRUCTED WITH A CLEAN CHECK EXTENDABLE BACKWATER VALVE MODEL MADE BY RECTORSEAL OR AN APPROVED EQUAL.

WATER SERVICE SHALL BE TWO INCH (2") MINIMUM COPPER TYPE "K". WATER SERVICE CONNECTION SHALL BE CONSTRUCTED WITH MUELLER MODEL NUMBER H-15000 CORPORATIONS, MUELLER "ORI SEAL" MODEL NUMBER H-15201 CURB VALVES, AND MUELLER 1-1/4" ARCH PATTERN CURB BOX (MODEL NUMBER H-10385).

SANITARY SEWER LATERAL PIPE MATERIAL SHALL BE 6" PVC CLASS SDR-26, CONFORMING TO THE REQUIREMENTS OF ASTM D3034 AND F-789/P546 WITH RUBBER GASKETS. CLEAN-OUT RISERS SHALL BE 6" DIAMETER WITH 8" DIAMETER FROST SLEEVE CONSTRUCTED OF THE SAME MATERIAL.

ALL SEWER AND WATER LINES INSTALLED IN PROPOSED PRIVATE PAVED AREAS SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL IN ACCORDANCE WITH TABLE 37, CHAPTER 8.43.4 OF THE "STANDARD SPECIFICATIONS". BACKFILL MATERIAL SHALL EXTEND A MINIMUM OF FIVE FEET (5') OUTSIDE OF THE PAVEMENT LIMITS. TRENCHES RUNNING PARALLEL TO AND LESS THAN FIVE FEET (5') FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE COMPACTED GRANULAR BACKFILL.

SLURRY BACKFILL SHALL BE USED WHERE INDICATED ON THE PLANS. MATERIALS SHALL BE PLACED IN A CLEAN CEMENT MIXER TRUCK AND THOROUGHLY MIXED, IN THE FOLLOWING QUANTITIES:

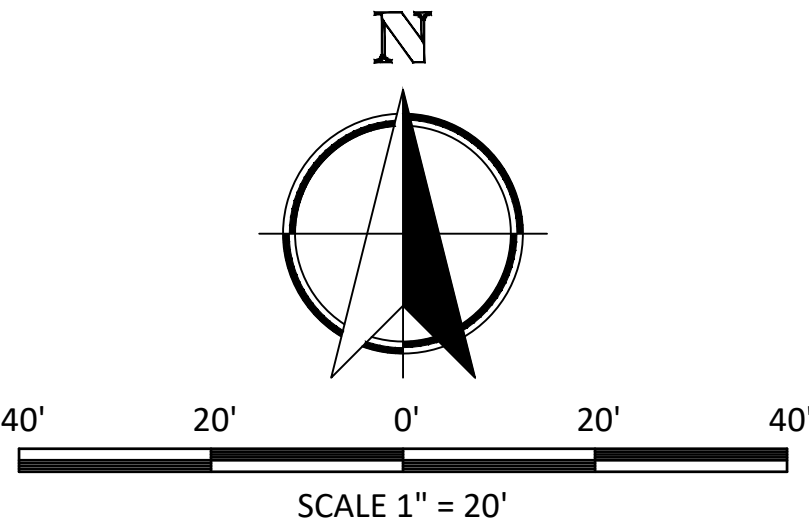
1,350 LBS	SAND
775 LBS	#1 STONE
1,150 LBS	#2 STONE
25 GAL	(+0 TO 0.5 GALS) WATER/CU. YD.

THE SLURRY BACKFILL MATERIAL SHALL BE PLACED AND MECHANICALLY COMPACTED IN LAYERS NOT TO EXCEED 8 INCHES IN DEPTH. NO ADDITIONAL WATER SHALL BE ALLOWED. THE ABOVE WEIGHTS ARE DAMP WEIGHTS. JUST PRIOR TO PLACING THE SLURRY, THE MIXER SHALL BE RUN AT MIXING SPEED FOR ONE FULL MINUTE TO ENSURE AN EVEN MIXTURE.

ALL SEWER AND WATER LINES INSTALLED IN THE PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED WITH SLURRY MATERIAL IN ACCORDANCE WITH CHAPTER 8.43.8 OF THE "STANDARD SPECIFICATIONS". BACKFILL MATERIAL SHALL EXTEND A MINIMUM OF FIVE FEET (5') OUTSIDE OF THE PAVEMENT/SIDEWALK LIMITS.

PROVIDE FIVE FEET (5') OF COVER OVER ALL SANITARY SEWERS AND FIVE AND ONE HALF FEET (5-1/2') OF COVER OVER ALL WATER MAINS. MINIMUM HORIZONTAL SEPARATION OF UTILITY MAINS IS EIGHT FEET (8'). PROVIDE VERTICAL SEPARATION OF UTILITIES PER CODE.

UTILITY CONFLICT RESOLUTION TABLE				
LOCATION	UTILITY	BOTTOM OF PIPE	TOP OF PIPE	CLEARANCE
(A)	10" STM 2" WTR	850.04 847.00	851.02 847.17	2.87'
(B)	12" STM 6" SAN	849.56 846.50	850.73 847.05	2.51'



WAUKESHA EXPRESS WASH SITE UTILITY PLAN

FOR ERICKSON ENTERPRISES II, LLC. CITY OF WAUKESHA, WAUKESHA COUNTY, WISCONSIN

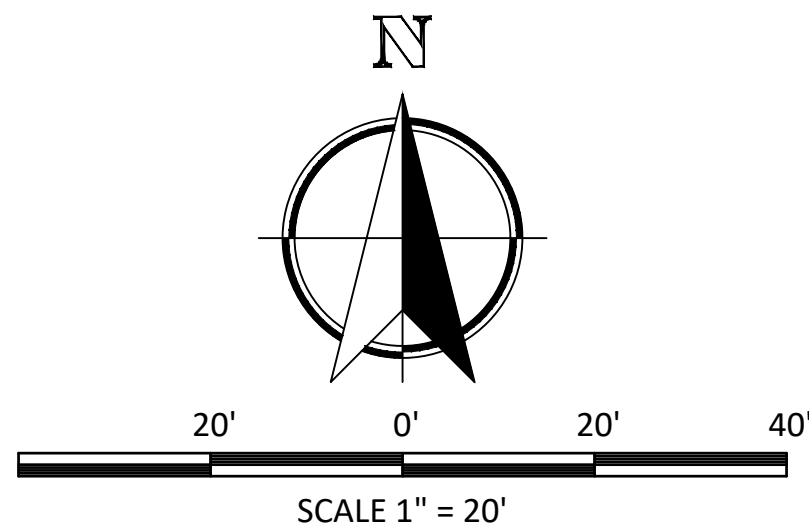
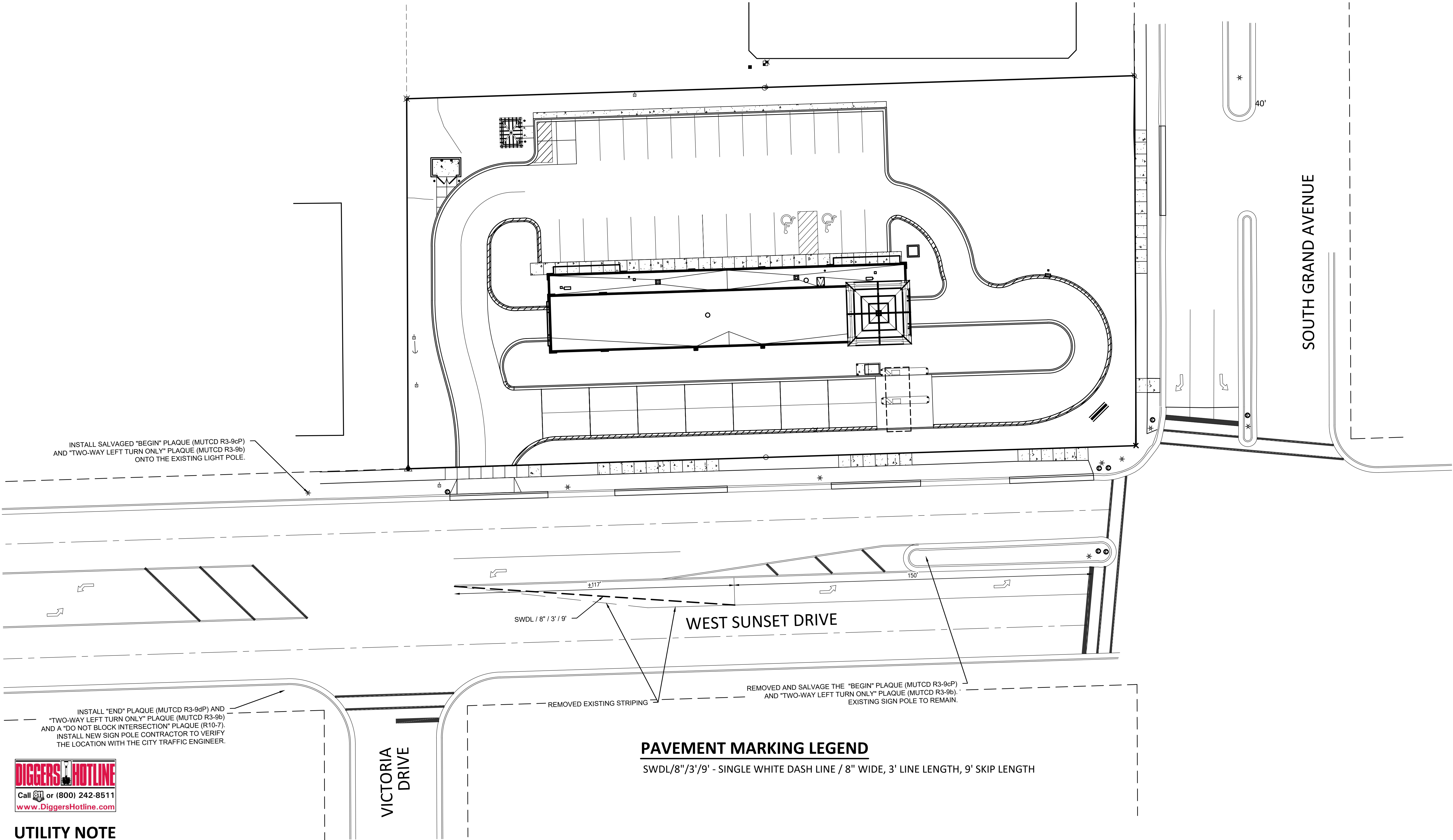
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Nielsen Madsen + Barber
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Tele: (262)634-5588 Website: www.nmbssc.net



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PAVEMENT MARKING LEGEND

SWDL/8"/3'/9' - SINGLE WHITE DASH LINE / 8" WIDE, 3' LINE LENGTH, 9' SKIP LENGTH



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WAUKESHA EXPRESS WASH
W SUNSET DR. PVMT MARKING & SIGN PLAN
FOR
ERICKSON ENTERPRISES II, LLC.
CITY OF WAUKESHA, WAUKESHA COUNTY, WISCONSIN

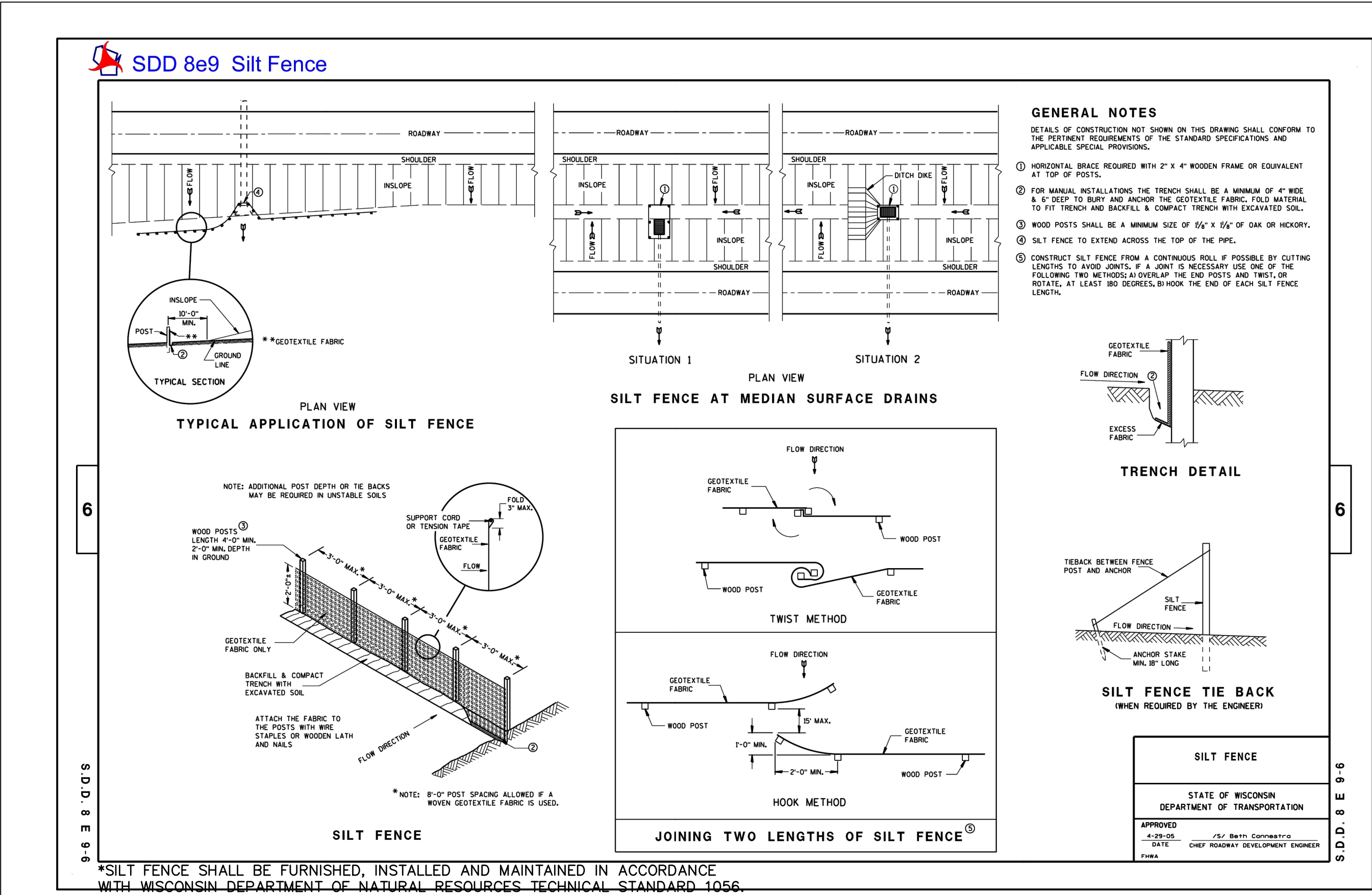
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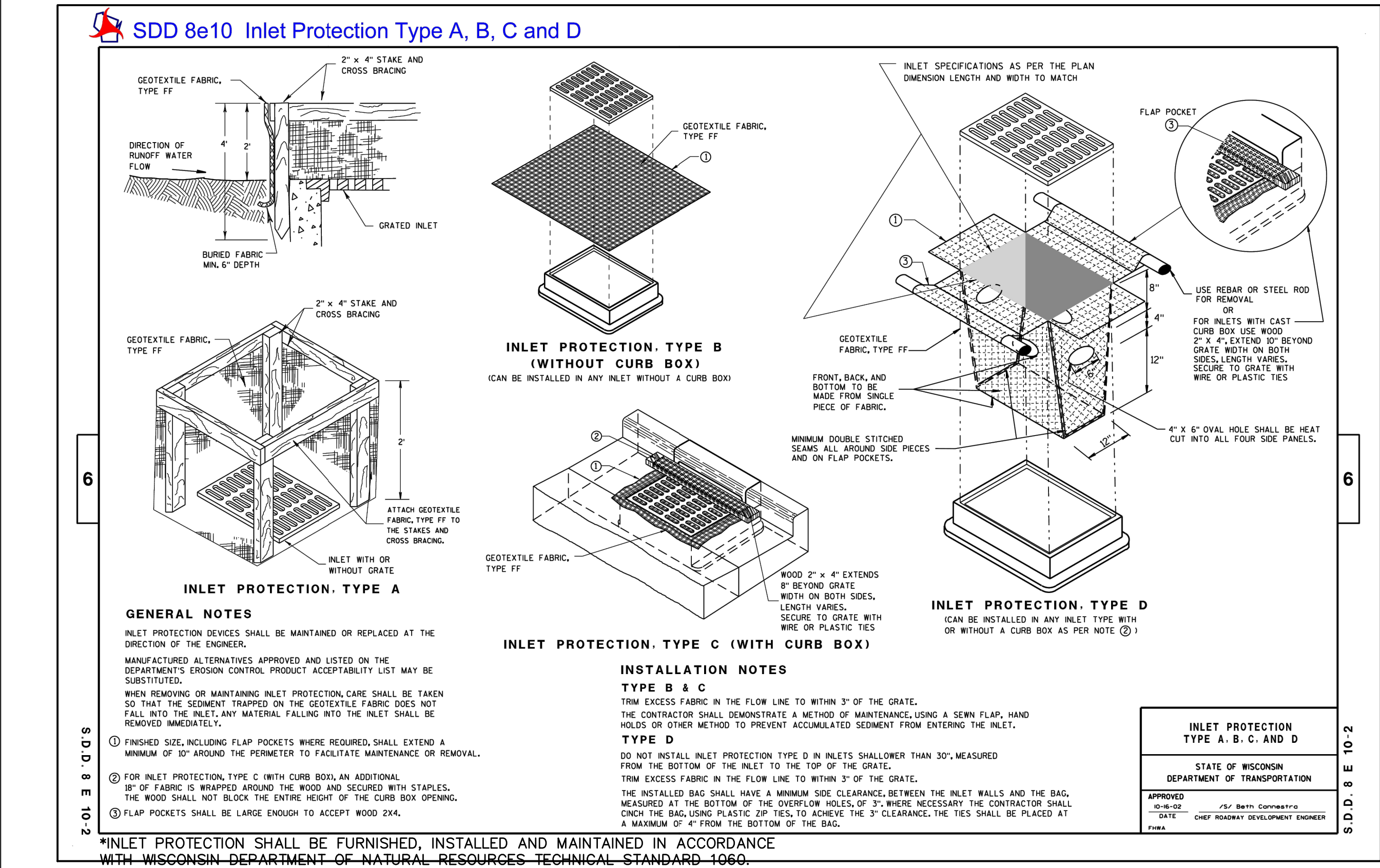
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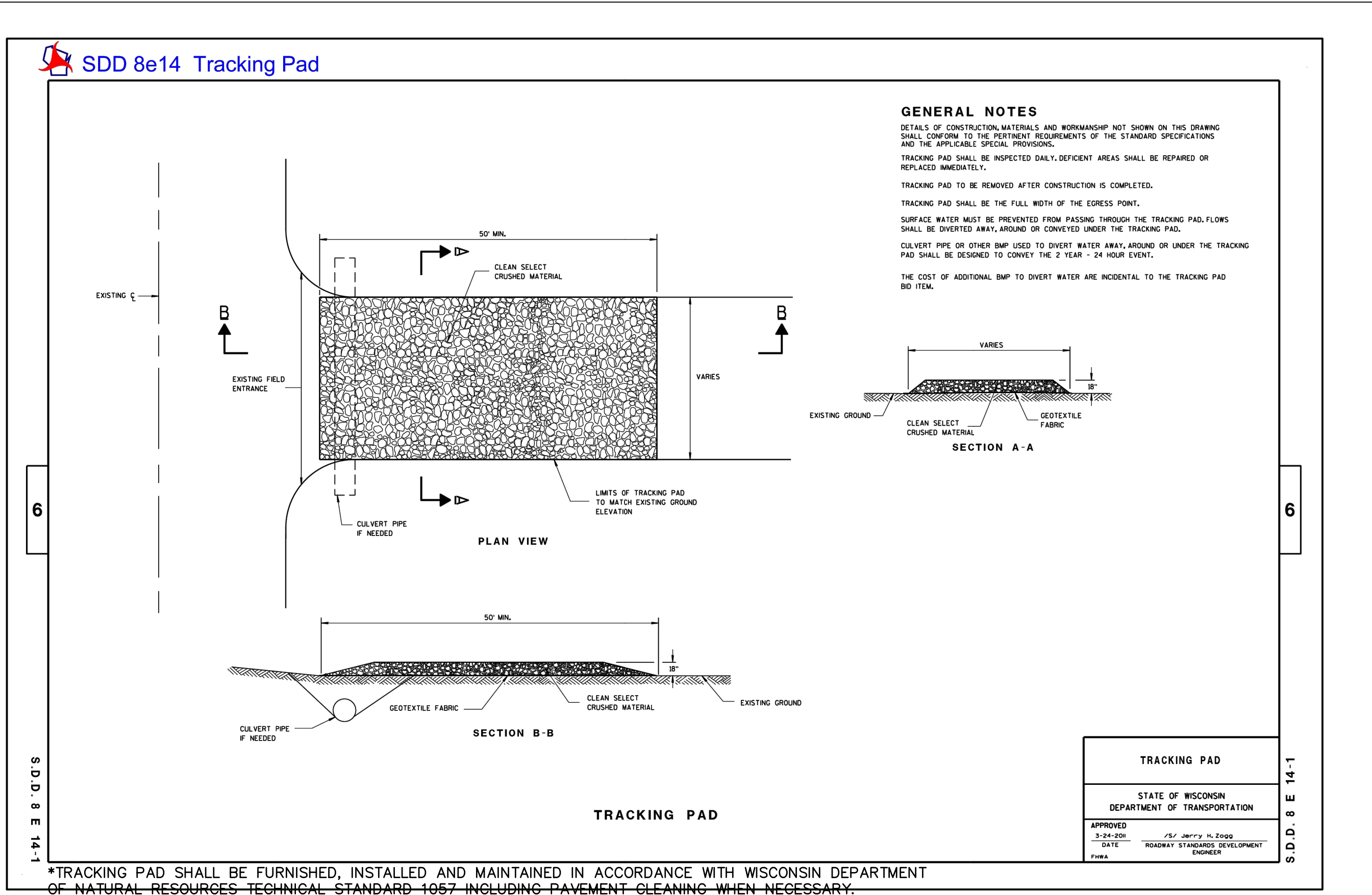
ISSUE FOR APPROVAL: 01-04-2023



1 SILT FENCE DETAIL N.T.S.

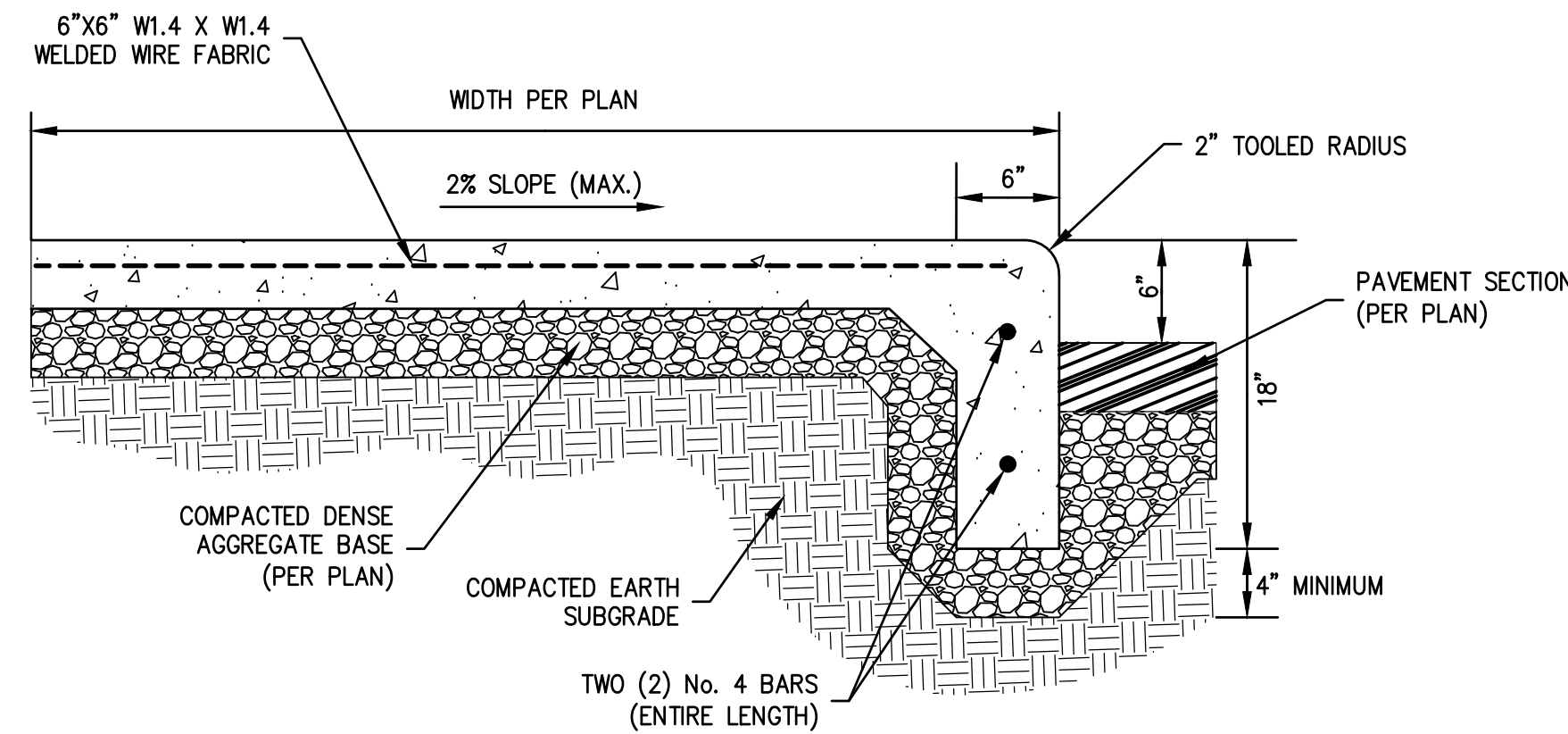


3 INLET PROTECTION DETAIL N.T.S.



2 TRACKING PAD DETAIL N.T.S.

1. CONCRETE CURB & GUTTER SHALL BE PLACED ON THOROUGHLY COMPACTED DENSE AGGREGATE BASE COURSE EXTENDING A MINIMUM OF 12 INCHES BEHIND THE BACK OF CURB.
2. CURB PAN SHALL BE A MINIMUM OF SIX INCHES (6") THICK, EXPECT AT DRIVEWAY LOCATIONS WHERE IT SHALL BE A MINIMUM OF EIGHT INCHES (8") THICK.
3. INSTALL TWO (2) NO. 4, 18-INCH LONG EPOXY COATED TIE BARS ANCHORED WITH AN EPOXY, EVENLY SPACED, DRIVEN NINE INCHES (9") INTO TO EXISTING OR PREVIOUSLY INSTALLED CURB AND GUTTER.
4. WHEN PLACED ADJACENT TO NEW CONCRETE, INSTALL NO. 4 18-INCH LONG EPOXY COATED TIE BARS, 36" ON CENTER PLACED A MINIMUM OF THREE AND ONE HALF INCHES (3½") BELOW THE TOP OF THE CURB PAN.
5. LATERAL CONTRACTION JOINTS TO BE PLACED AT AN INTERVAL OF 10 FEET TO A MINIMUM DEPTH OF TWO INCHES (2").
6. EXPANSION JOINTS SHALL BE PLACED TRANSVERSELY AT POINTS OF CURVATURE, ANGLE POINTS, THREE FEET (3') FROM EACH SIDE OF EVERY INLET AND EVERY 300 FEET ALONG TANGENT SECTIONS OR DIRECTED BY THE ENGINEER. EXPANSION JOINT FILLER MATERIAL SHALL MEET MSDOT SPECIFICATIONS HAVING THE SAME DIMENSIONS AS THE CURB & GUTTER WITH A 3/4" THICKNESS.
7. APPLY CONCRETE CURING COMPOUND PER MSDOT SPECIFICATIONS.

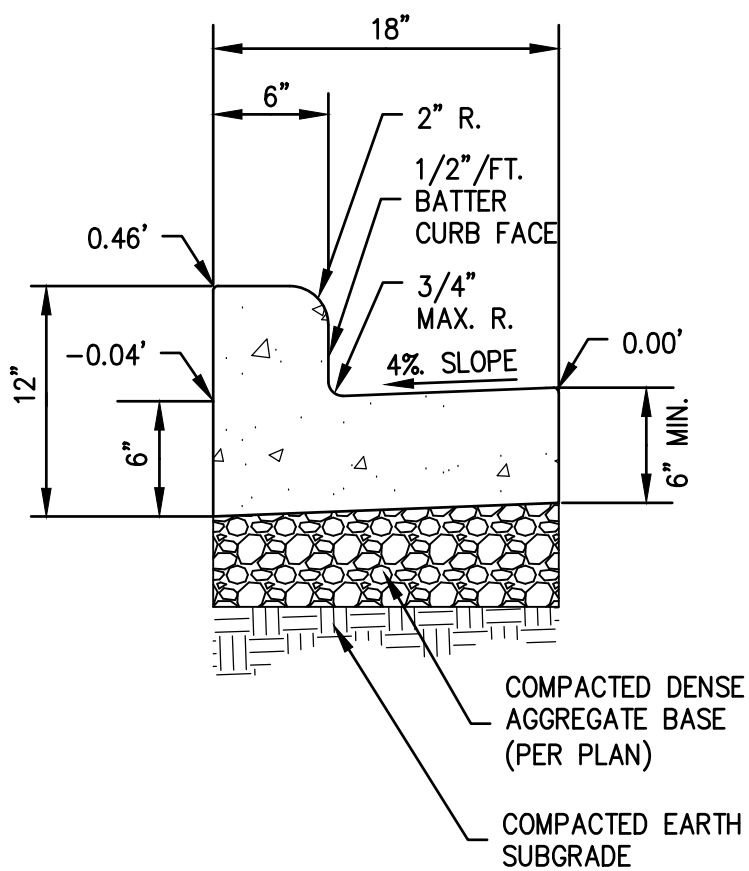


1 CONCRETE CURB AND GUTTER DETAIL NOTES

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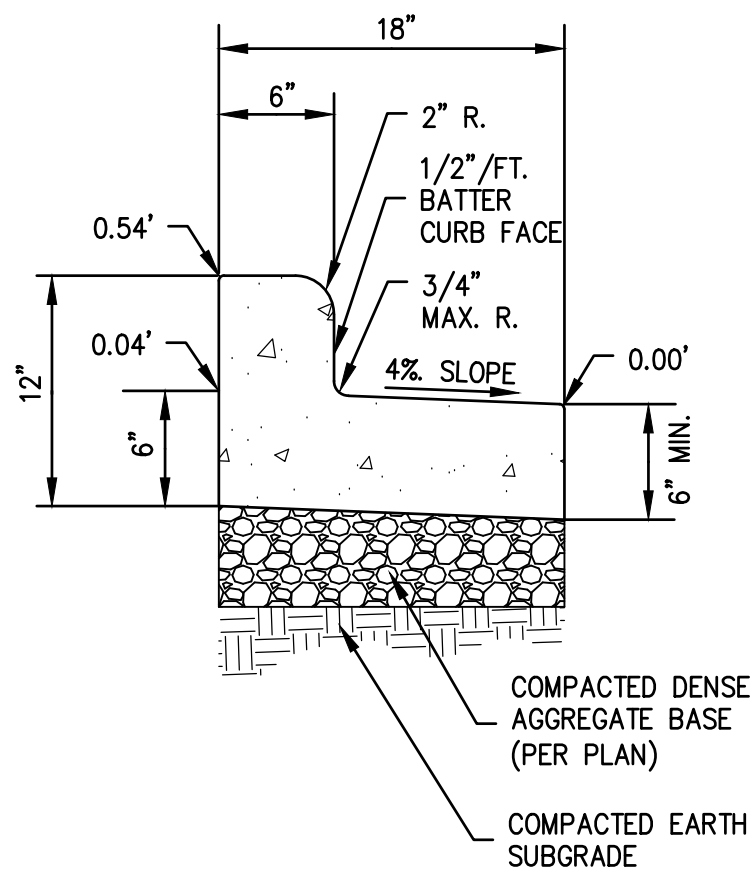
2 | INTEGRAL CONCRETE SIDEWALK / BARRIER CURB DETAIL

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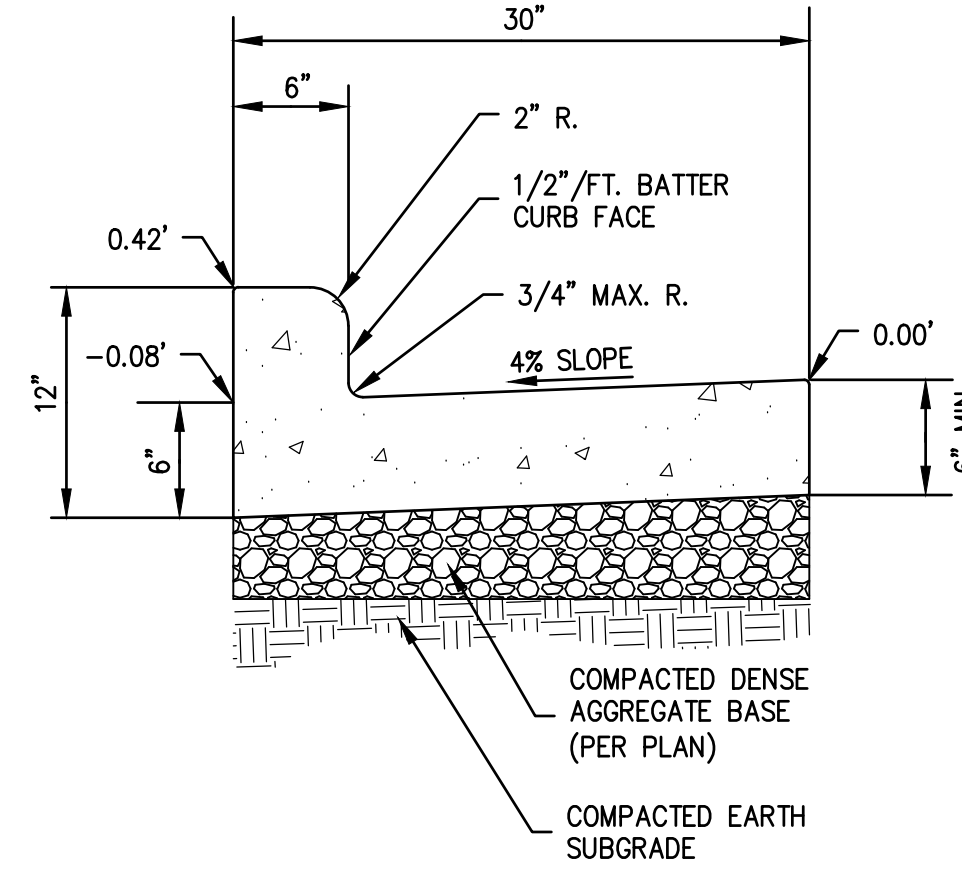
3 18" VERTICAL FACE CONCRETE CURB AND GUTTER DETAIL

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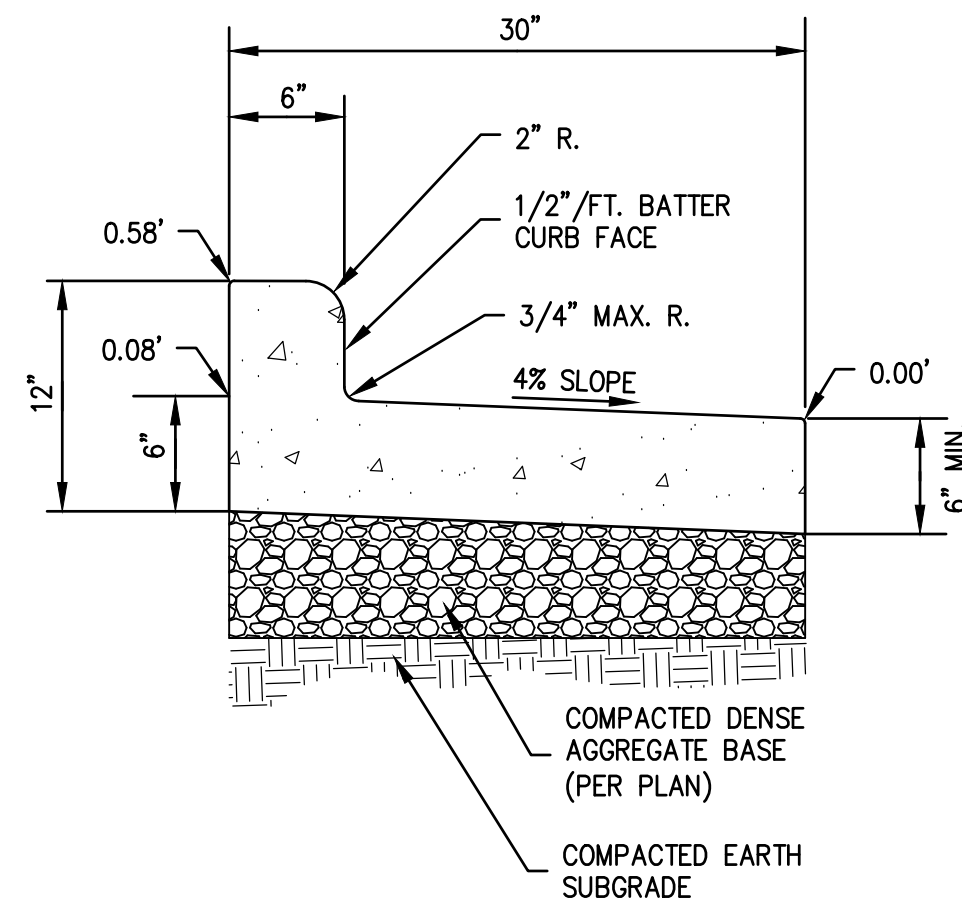
18" VERTICAL FACE REVERSE PAN CONCRETE CURB AND GUTTER DETAIL

N.T.S.



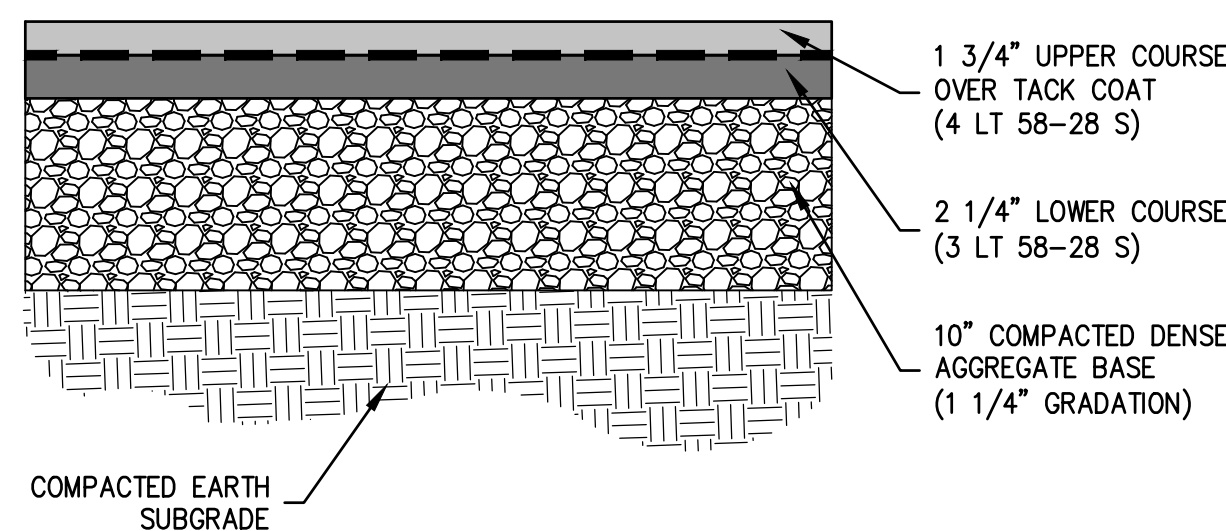
5 30" VERTICAL FACE CONCRETE CURB AND GUTTER DETAIL

N.T.S.



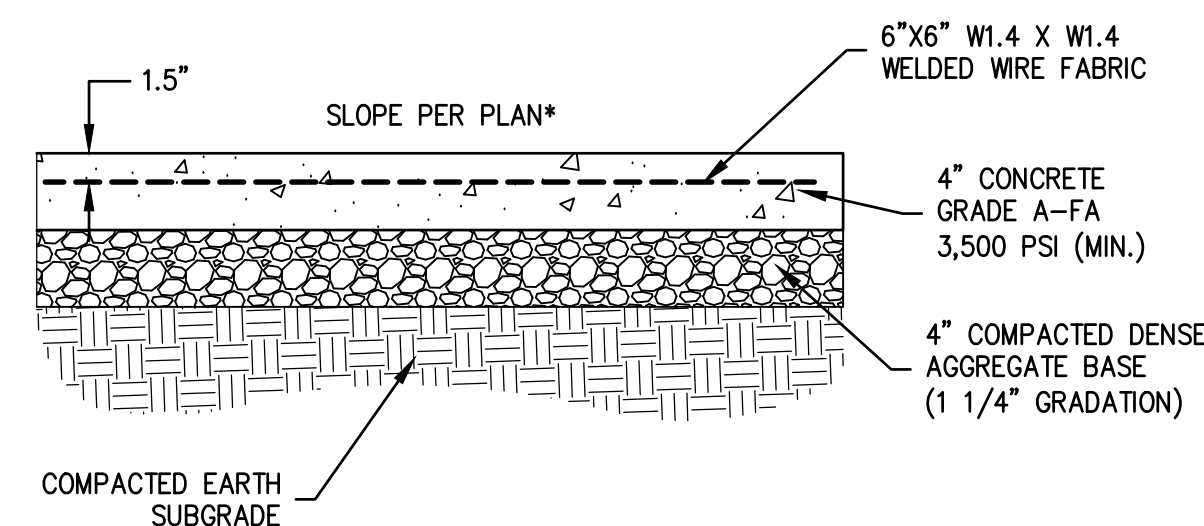
6 30" VERTICAL FACE REVERSE PAN
CONCRETE CURB AND GUTTER DETAIL

N.T.S.



7 MEDIUM-DUTY ASPHALT PAVEMENT (4") (TYPICAL SECTION)

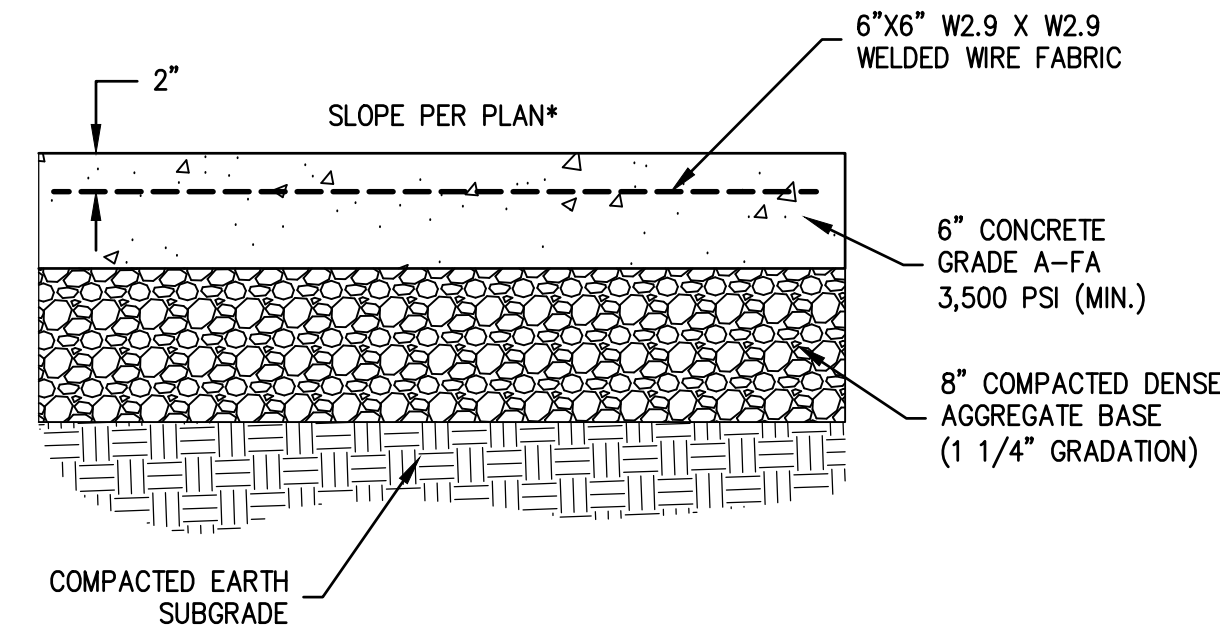
N.T.S.



* SIDEWALKS: 1.5% CROSS-SLOPE (TYP.) 2.08% CROSS-SLOPE (MAX.)
PATIOS, PLAZAS, AND LANDINGS: 2.08% SLOPE IN ANY DIRECTION (MAX.)
ALL OTHER PAVEMENTS: SLOPE PER PLAN

8 LIGHT-DUTY CONCRETE PAVEMENT (4") (TYPICAL SECTION)

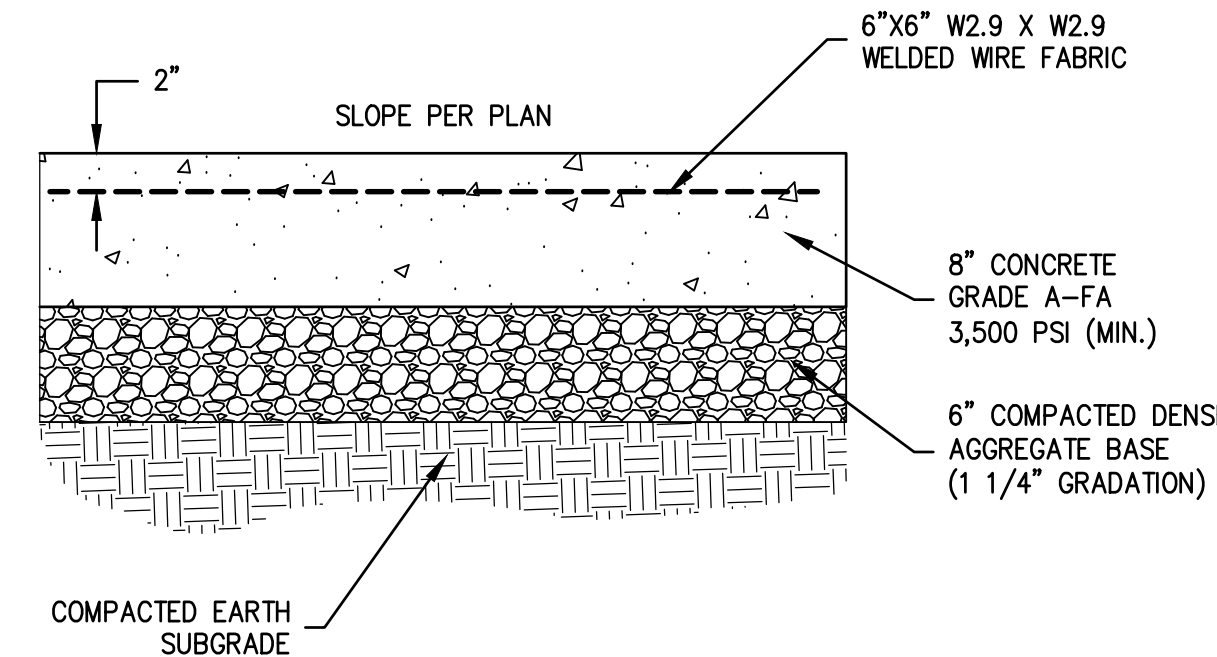
N.T.S.



* SIDEWALKS: 1.5% CROSS-SLOPE (TYP.) 2.08% CROSS-SLOPE (MAX.)
PATIOS, PLAZAS, AND LANDINGS: 2.08% SLOPE IN ANY DIRECTION (MAX.)
ALL OTHER PAVEMENTS: SLOPE PER PLAN

**9 MEDIUM-DUTY CONCRETE PAVEMENT (6")
(TYPICAL SECTION)**

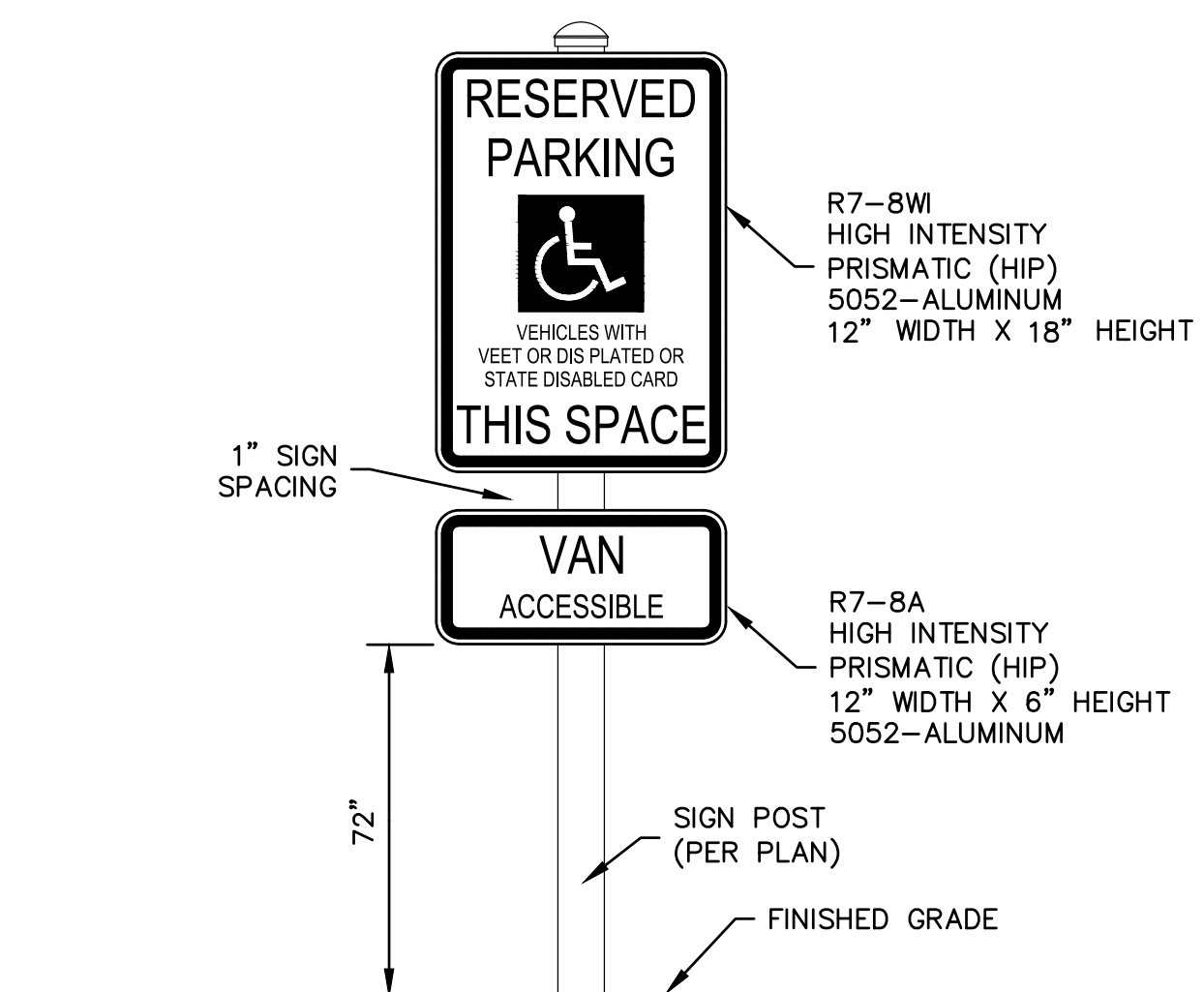
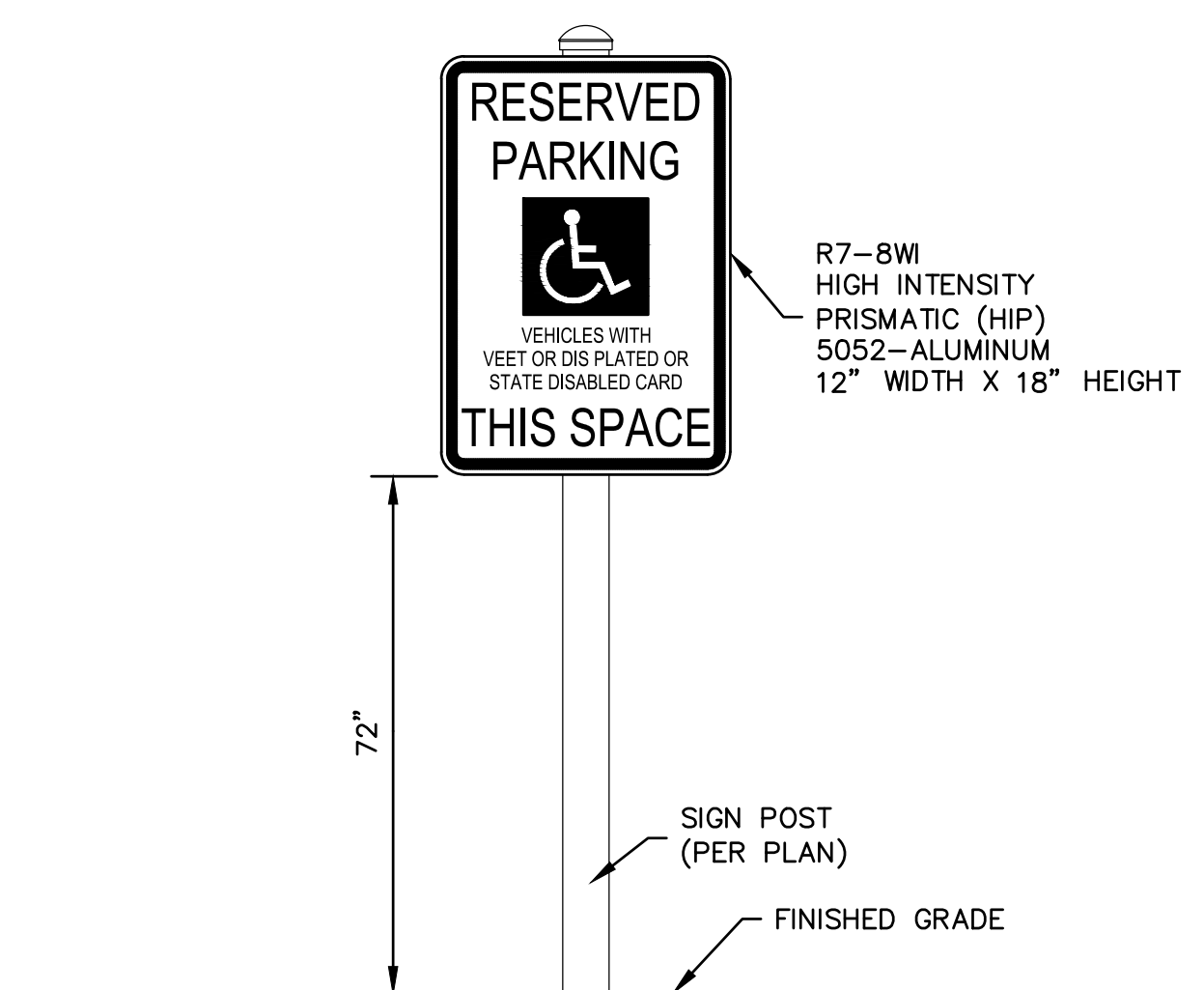
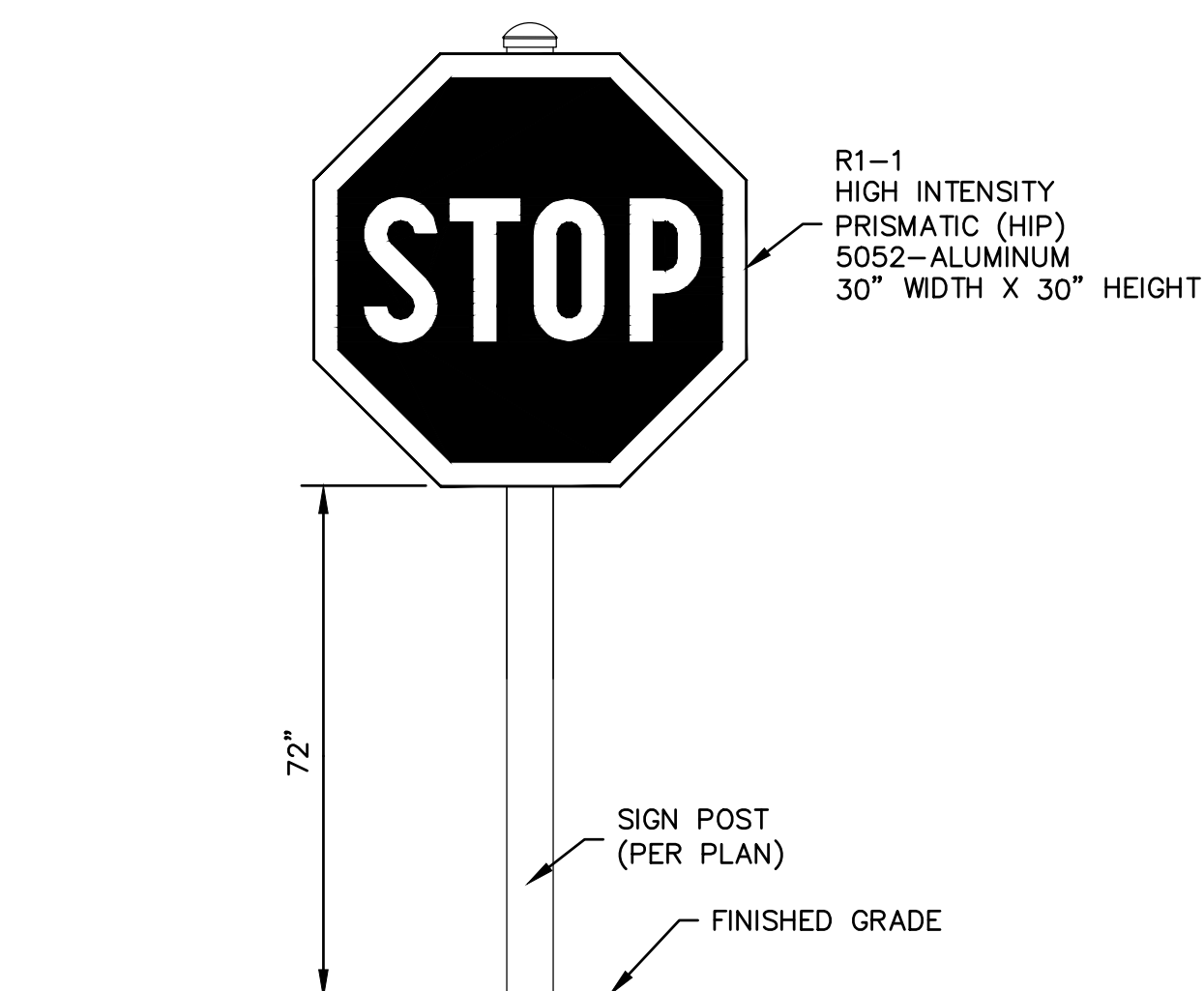
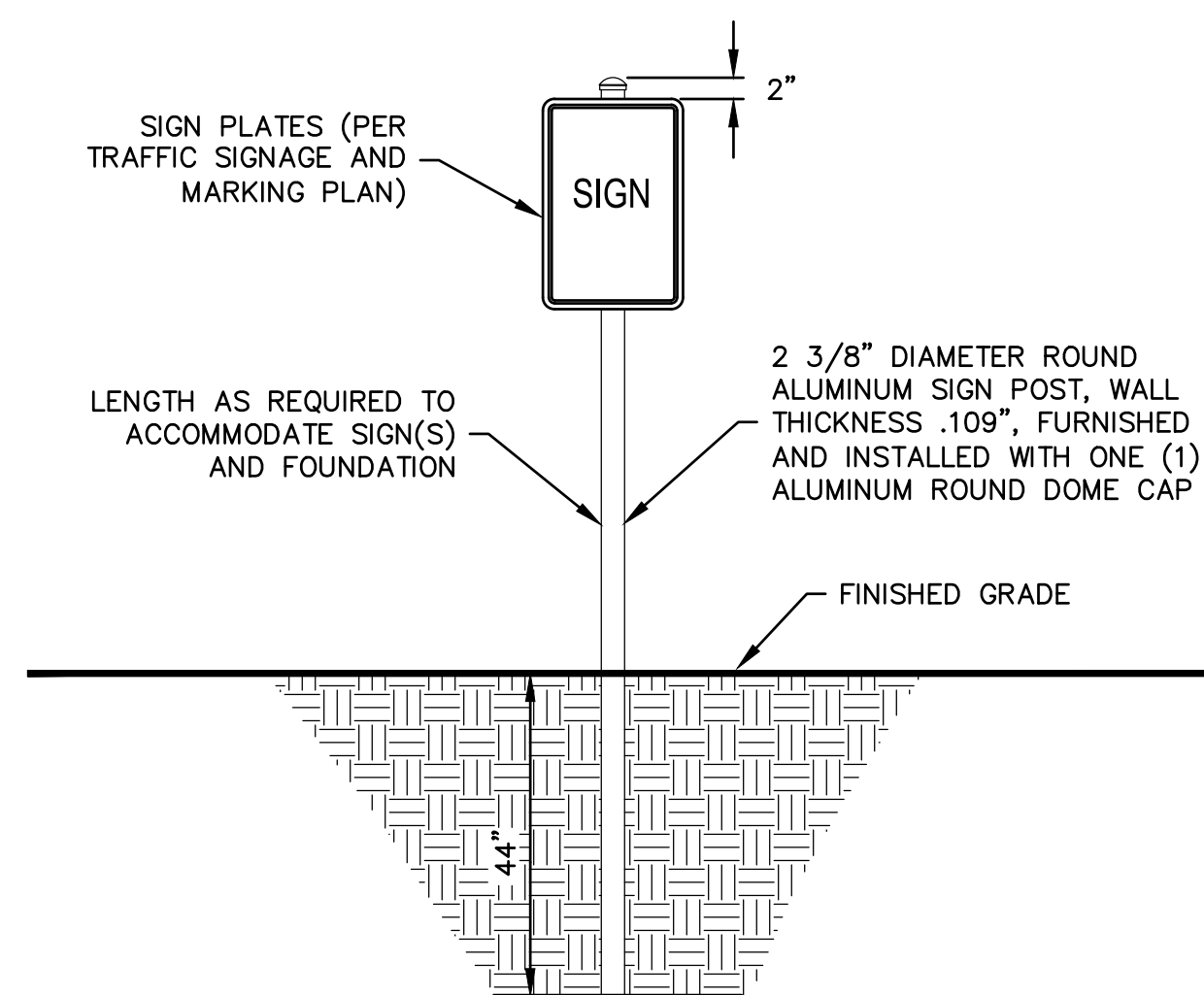
N.T.S.



10 HEAVY-DUTY CONCRETE PAVEMENT (8") (TYPICAL SECTION)

N.T.S.

[illegible]

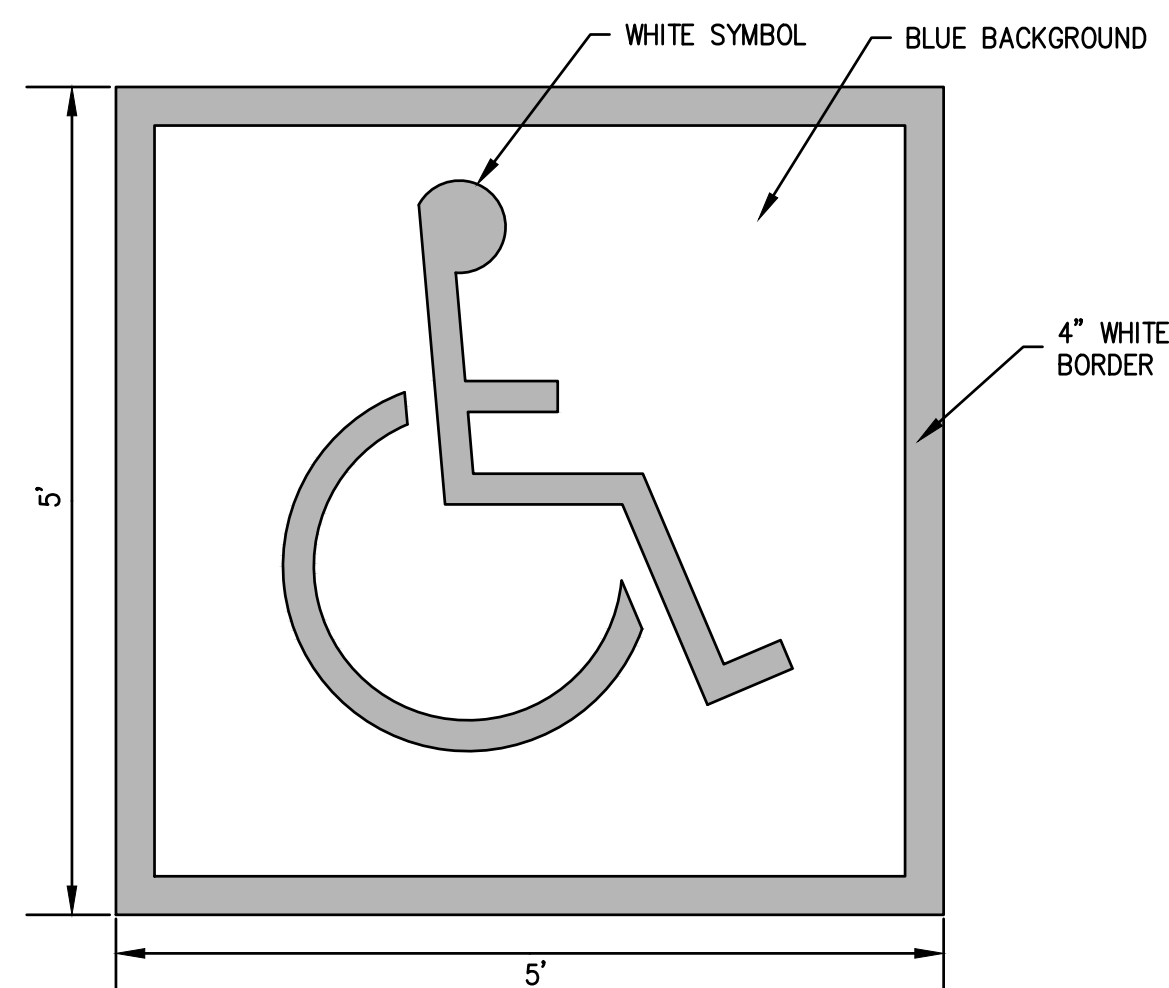


1	ALUMINUM ROUND SIGN POST DETAIL	N.T.S.
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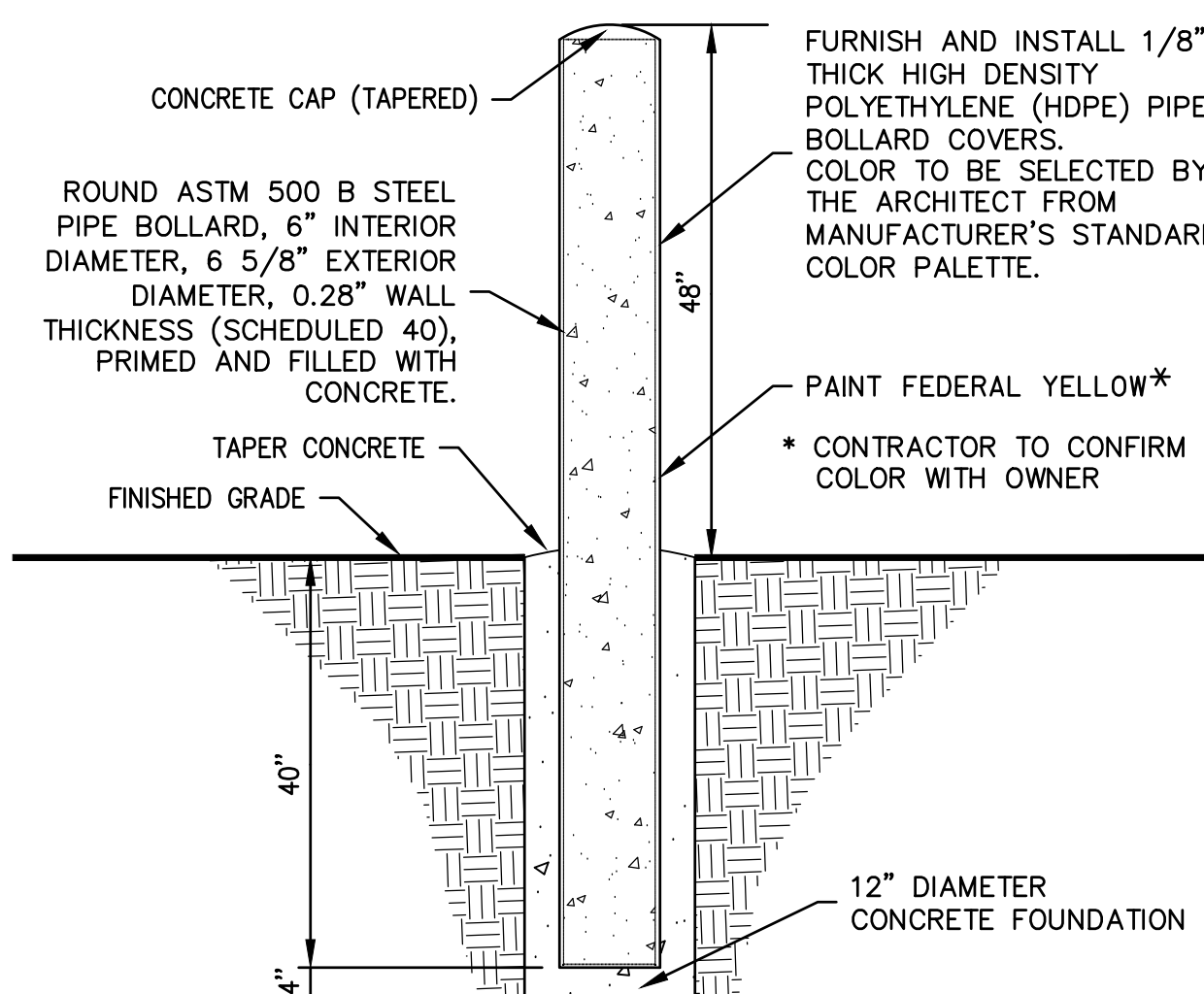
2	"STOP" SIGN DETAIL	N.T.S.
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3	ADA "RESERVED PARKING" SIGN DETAIL	N.T.S.
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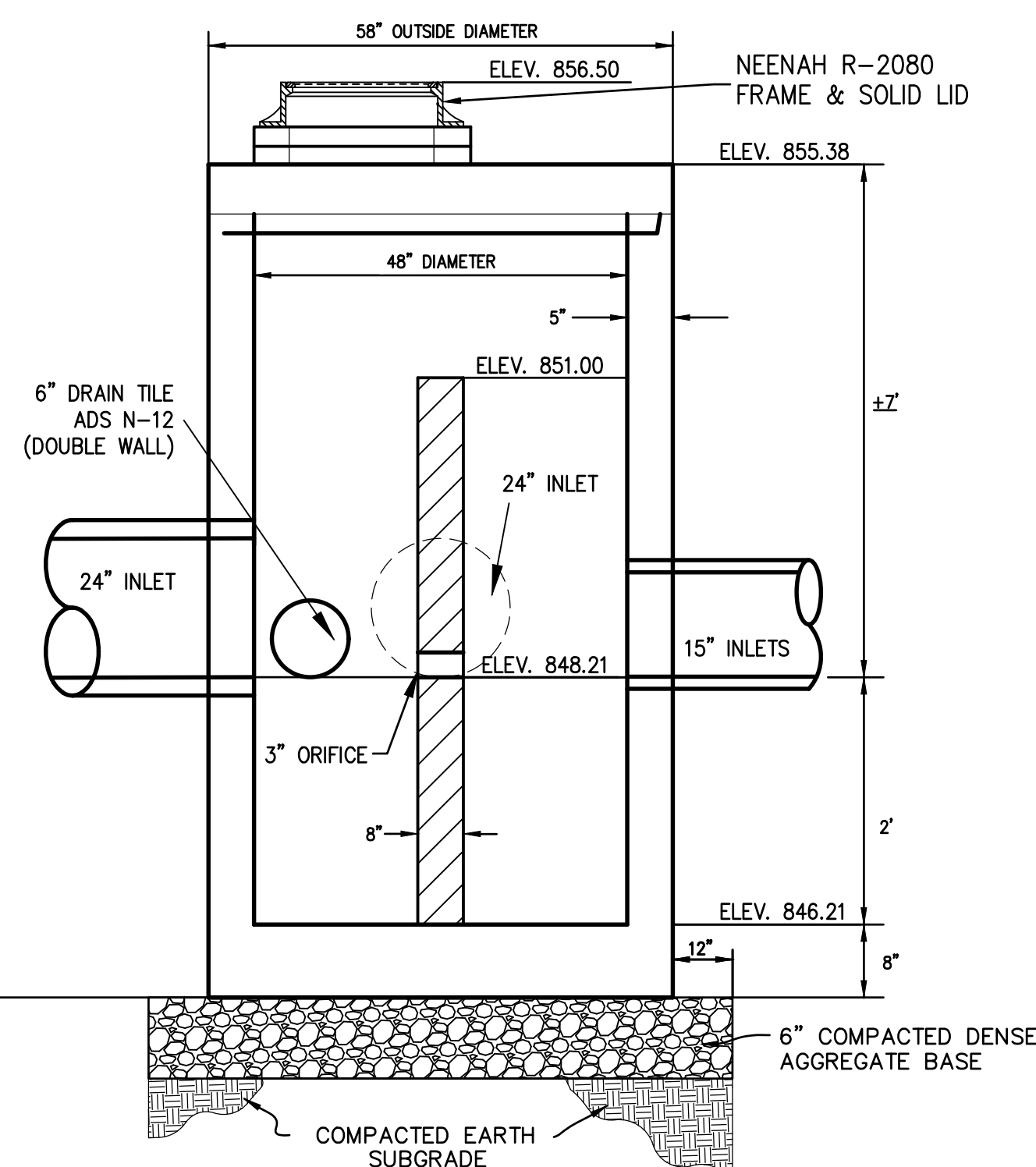
4	ADA "RESERVED PARKING VAN ACCESSIBLE" SIGN DETAIL	N.T.S.
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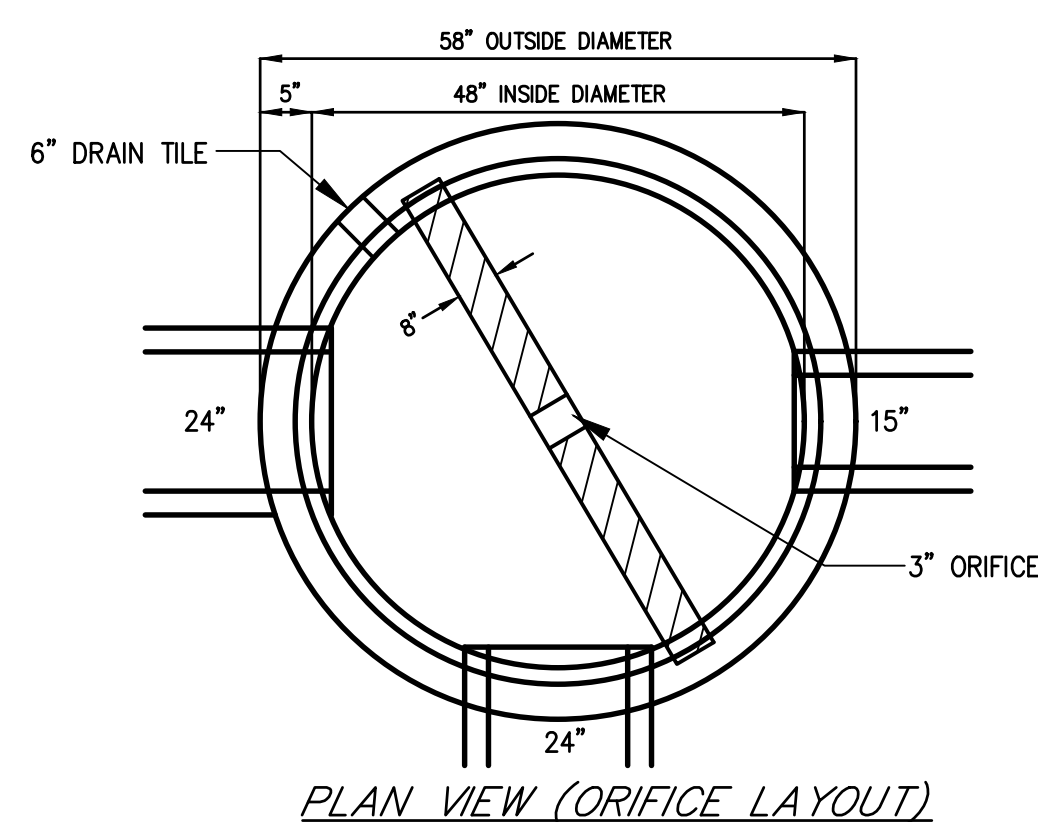
5	PAINTED INTERNATIONAL SYMBOL FOR ACCESSIBILITY DETAIL	N.T.S.
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6	6" STEEL PIPE BOLLARD DETAIL	N.T.S.
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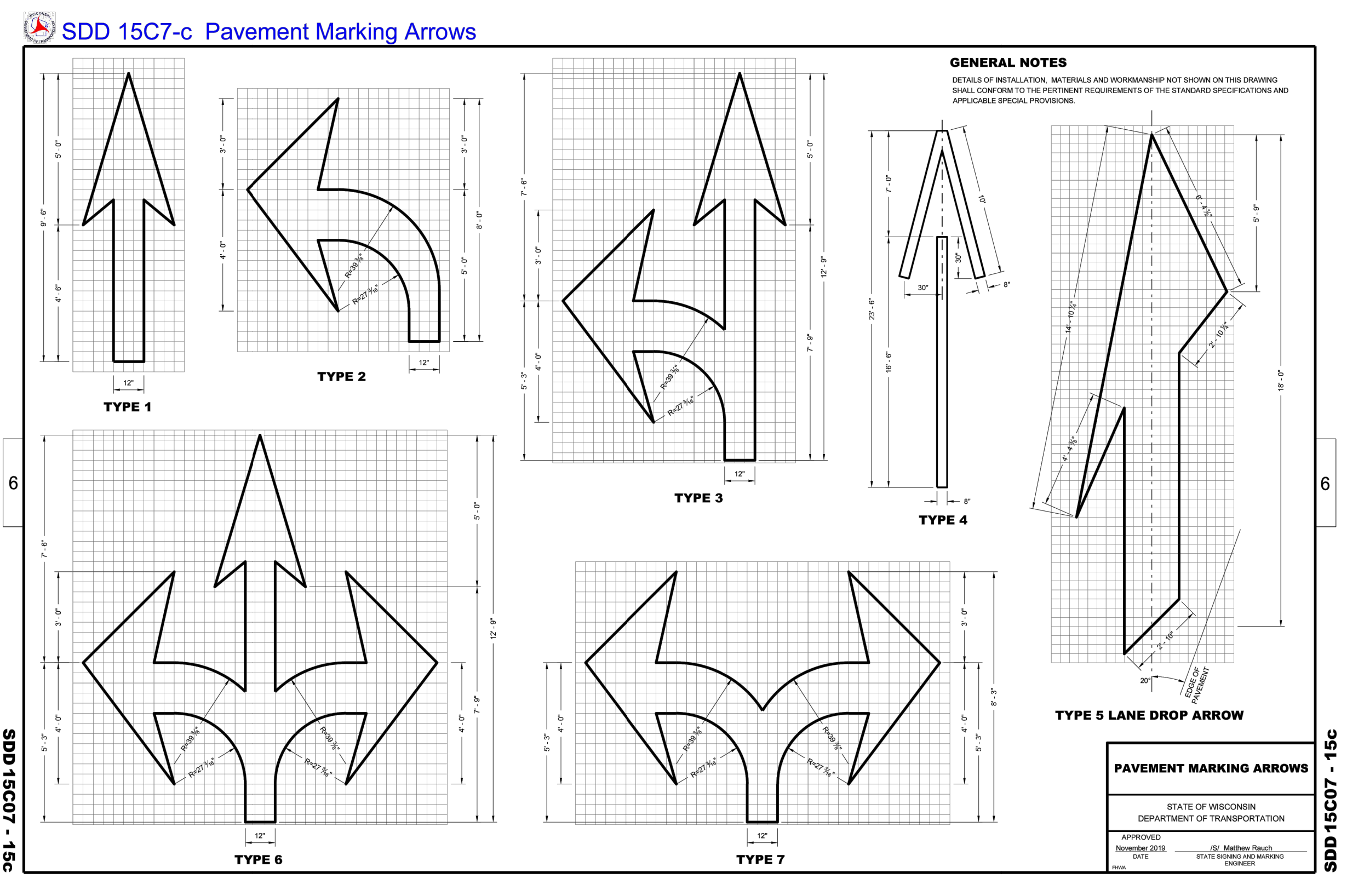


PROFILE VIEW

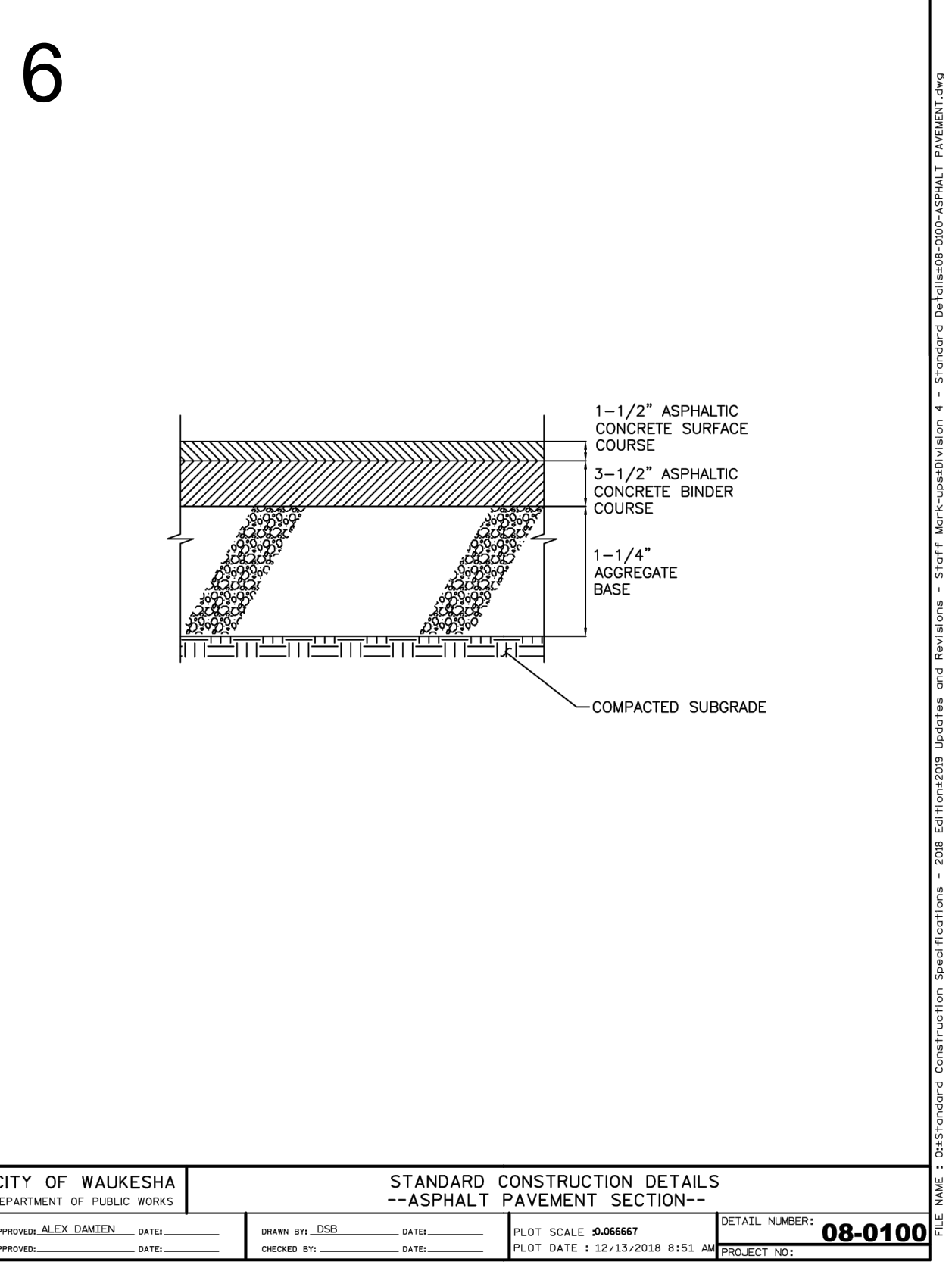
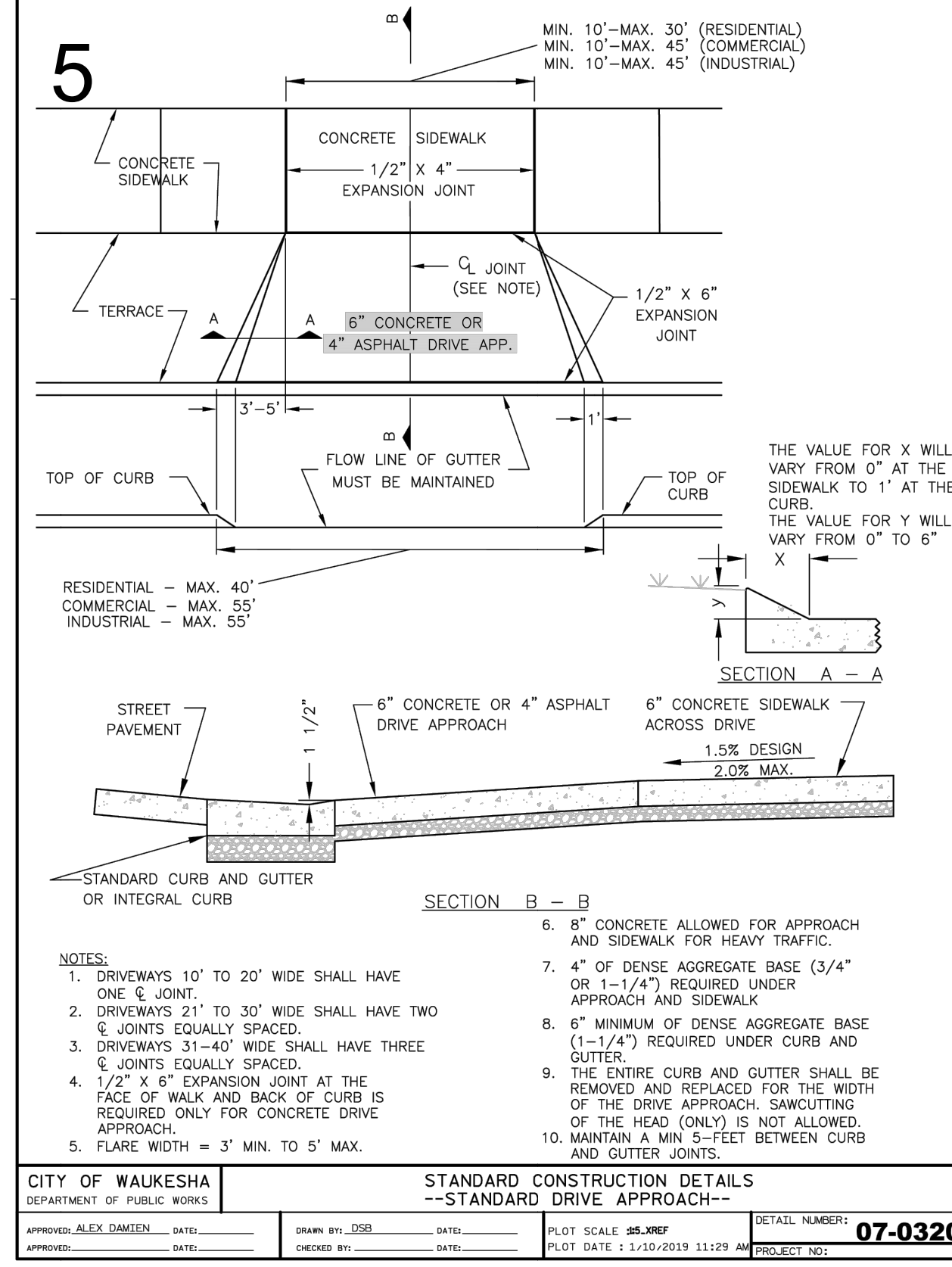
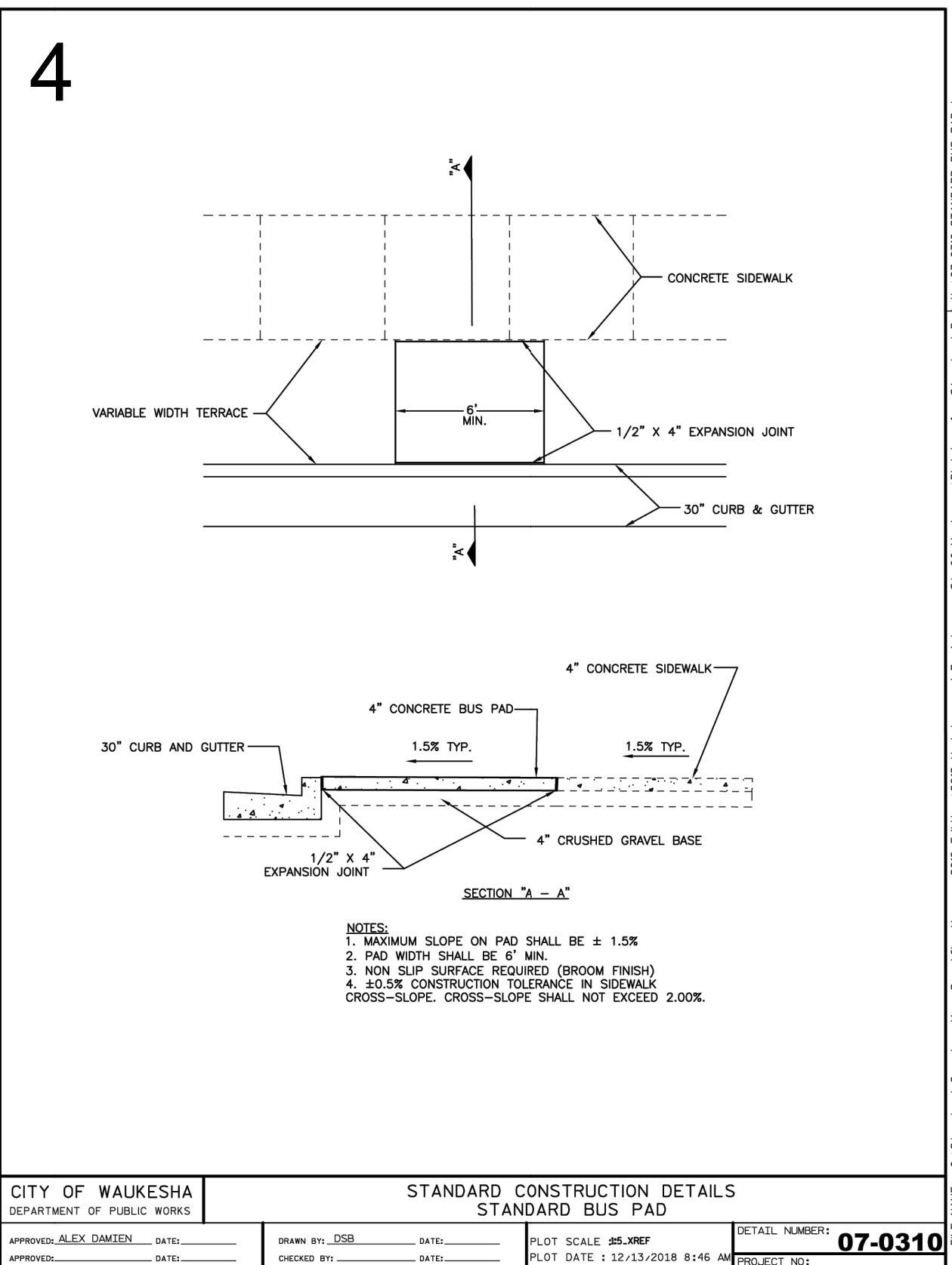
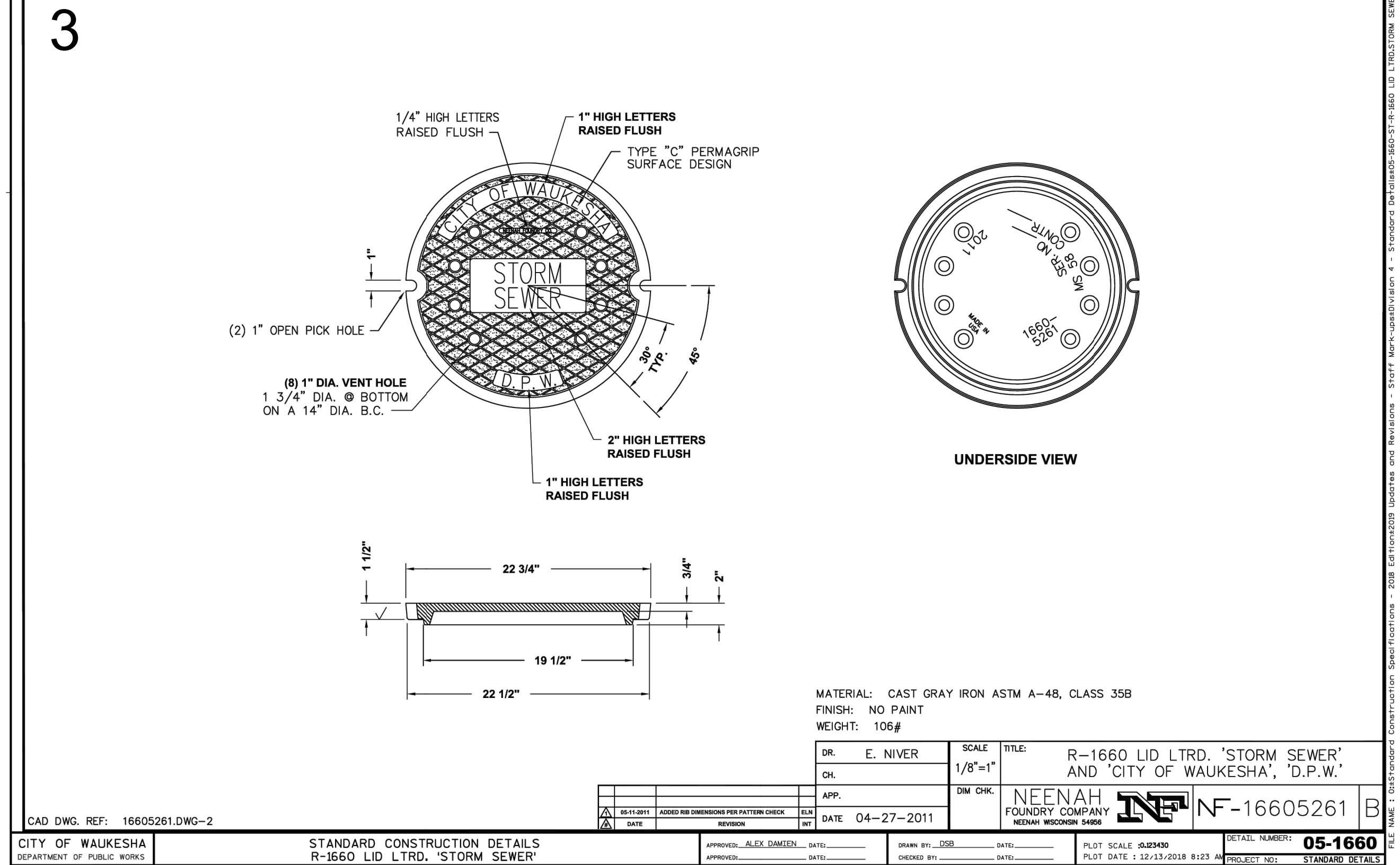
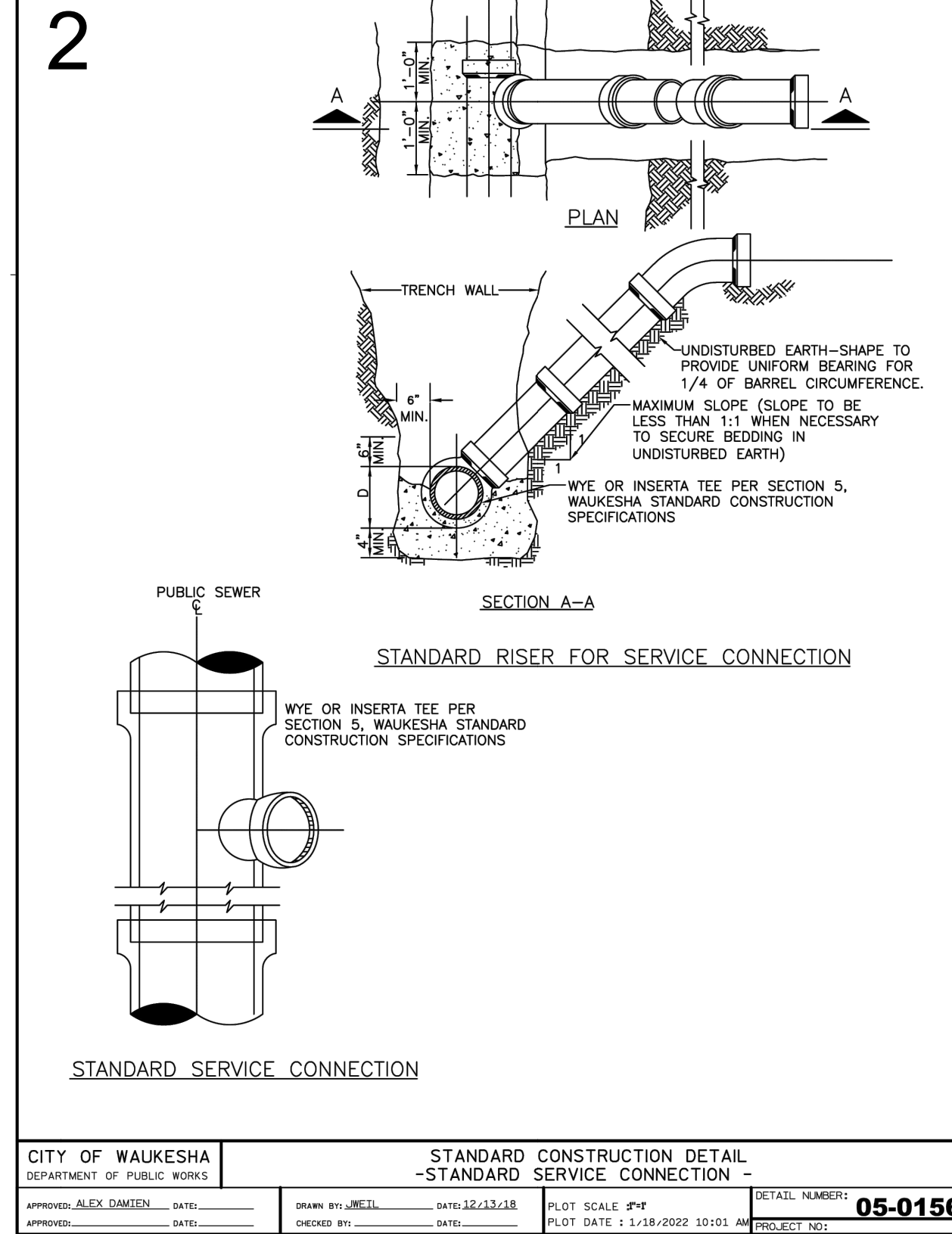
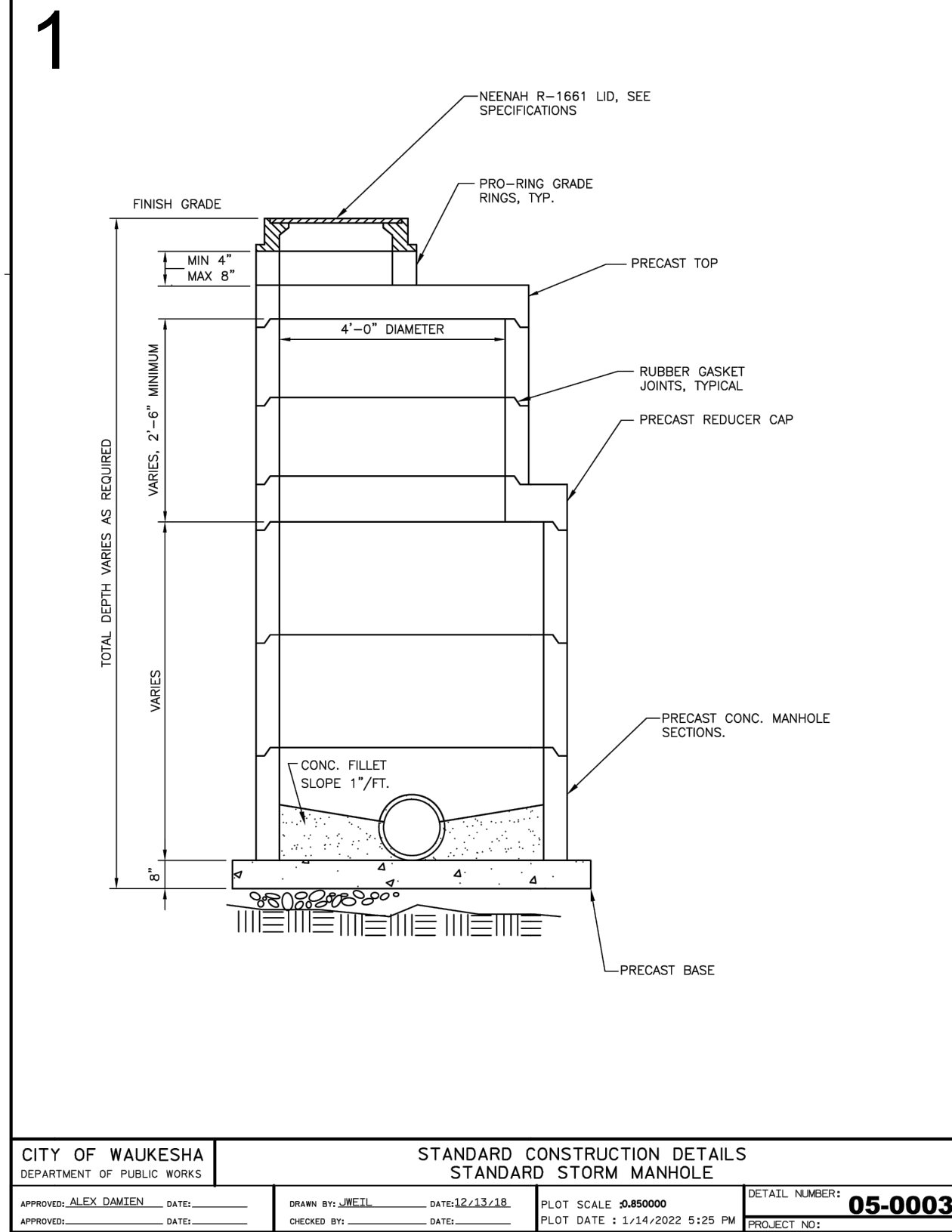


PLAN VIEW (ORIFICE LAYOUT)

7	UNDERGROUND DETENTION SYSTEM OUTLET CONTROL STRUCTURE DETAIL	N.T.S.
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8	PAVEMENT ARROW MARKING DETAIL	N.T.S.
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[illegible]

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT

- INSPECTION PORTS IF PRESENT:
 - REMOVE COVER FROM ISOLATOR ROWLINE DRAIN
 - REMOVE AND CLEAN ISOLATOR FILTER IF NEEDED
 - USING A FLASHLIGHT AND STYCHO ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - COVER A CAMERA INTO ISOLATOR ROW PLUS FOR RECORDING OF SEDIMENT LEVELS (OPTIONAL)
- IF SEDIMENT IS AT OR ABOVE 2" (50 mm) PROCEED TO STEP 2; IF NOT, PROCEED TO STEP 3

ALL ISOLATOR ROW PLUS

- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
- USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
- IF SEDIMENT IS AT OR ABOVE 2" (50 mm) PROCEED TO STEP 2; IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE ATJAC PROCESS

- A PNEUMATICALLY OPERATED NOZZLE WITH 100% FLOW RATE OF ATJAC 1.1 (1) IN OR MORE IS PREFERRED
- APPLY MULTIPLE PASSES OF ATJAC UNTIL BACKFLOW WATER IS CLEAN
- VACUUM STRUCTURE SLUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LOGS, RECORD OBSERVATIONS AND ACTIONS

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTRENCH SYSTEM

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH FLOW ELEVATIONS.
- CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

12\" (300 mm) MIN WIDTH

CONCRETE COLLAR NOT REQUIRED FOR UNPAVED APPLICATIONS

6\" NYLOPLAST INSPECTION PORT BODY (PART #25040000) ON TRAFFIC RATED BOX WOULD LOOKING COVER

PAVEMENT

CONCRETE SLAB

6\" (150 mm) MIN THICKNESS

STORMTRENCH CHAMBER

4\" (100 mm) SDR 35 PIPE

4\" (100 mm) INSERT TEE TO BE CENTERED ON CORRUGATION VALLEY

NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

4\" PVC INSPECTION PORT DETAIL
(MC SERIES CHAMBER)

N/A

4405 TRUSMAY BLVD
180723, 072
180723, 072

StormTech
Chamber System

888-862-2841 | WWW.STORMTECH.COM

MC-SERIES END CAP INSERTION DETAIL

NORMAL END CAP SPECIFICATIONS

SIZE	WEIGHT	MINIMUM STONE FOUNDATION
12" (300 mm) END CAP STORAGE	14.0 CUBIC FEET (1.2 cu m)	18" (457 mm)
MINIMUM INSTALLED STORAGE	45 CUBIC FEET (1.2 cu m)	24" (609 mm)

WEIGHT

SIZE	WEIGHT
12" (300 mm) STONE ABOVE 9" (229 mm) STONE FOUNDATION	49 lbs. (22.2 kg)

"ASSUMES 1" (25 mm) STONE PERIMETER IN FRONT OF END CAPS AND 4" STONE POROSITY

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A WELDED CHROWN LAID END WITH "C"
END CAPS WITH A PRE-FABRICATED WELDED STUB END WITH "W"

PART

PART #	STUB	B	C
MC300EPP06T	6" (150 mm)	32.2" (844 mm)	0.95" (17 mm)
MC300EPP08T	8" (200 mm)	31.18" (791 mm)	0.91" (21 mm)
MC300EPP08B	8" (200 mm)	31.18" (791 mm)	0.91" (21 mm)
MC300EPP10T	10" (250 mm)	29.04" (738 mm)	0.87" (22 mm)
MC300EPP10B	10" (250 mm)	29.04" (738 mm)	0.87" (22 mm)
MC300EPP12T	12" (300 mm)	26.88" (682 mm)	1.97" (49 mm)
MC300EPP12B	12" (300 mm)	26.88" (682 mm)	1.97" (49 mm)
MC300EPP16T	16" (400 mm)	23.39" (594 mm)	1.98" (50 mm)
MC300EPP16B	16" (400 mm)	23.39" (594 mm)	1.98" (50 mm)
MC300EPP18T	18" (450 mm)	20.93" (530 mm)	1.97" (49 mm)
MC300EPP18B	18" (450 mm)	20.93" (530 mm)	1.97" (49 mm)
MC300EPP18W	18" (450 mm)	20.93" (530 mm)	1.97" (49 mm)
MC300EPP24T	24" (600 mm)	14.48" (368 mm)	2.00" (50 mm)
MC300EPP24B	24" (600 mm)	14.48" (368 mm)	2.00" (50 mm)
MC300EPP24W	24" (600 mm)	14.48" (368 mm)	2.00" (50 mm)
MC300EPP30T	30" (750 mm)	2.15" (50 mm)	2.15" (50 mm)


NOTE: ALL DIMENSIONS ARE NOMINAL

NOTE: MANHOLE STUB MUST BE LAID HORIZONTAL AND PROPERLY FIT IN END CAP OPENING.

CUSTOM PRECUTTED INVERTS ARE AVAILABLE UPON REQUEST
INVENTED MANHOLE INVERTS INCLUDE 12" (300 mm) SIZES ON 12" (300 mm) STUBS AND 18" (450 mm) SIZES ON 18" (450 mm) STUBS
INVERT LOCATIONS ON THE MC-300 AND MC-450 CAN BE IN THE FIELD OR NOT RECOMMENDED FOR PIPE SIZES 18" (450 mm) AND LARGER. THE INVERT LOCATION IN COLUMN "B" ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

NOTES			
1	3-37" (952-762 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 15-03-05		
2	15-37" (392-762 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-10-05		
3	DRAIN BASINS TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS		
4	DRAINAGE CONNECTIONS AT JUNCTIONS JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE ADS & HANCOCK DUAL WALL & SDR 35 PE		
5	FOR COMPLETE DESIGN AND PRODUCT INFORMATION: WWW.NYLOPLAST-US.COM		
6	TO ORDER CALL: 800-421-6710		

A	PART #	GRATE/SOLID COVER OPTIONS	
6" (152 mm)	2856AG	PEDESTALN LIGHT DUTY	STANDARD LIGHT DUTY
			SOLID LIGHT DUTY
10" (254 mm)	2810AG	PEDESTALN LIGHT DUTY	STANDARD LIGHT DUTY
			SOLID LIGHT DUTY
12" (303 mm)	2812AG	PEDESTALN ASKHITO H-10	STANDARD ASKHITO H-20
			SOLID ASKHITO H-20
15" (375 mm)	2815AG	PEDESTALN ASKHITO H-10	STANDARD ASKHITO H-20
			SOLID ASKHITO H-20
18" (457 mm)	2818AG	PEDESTALN ASKHITO H-10	STANDARD ASKHITO H-20
			SOLID ASKHITO H-20
24" (603 mm)	2824AG	PEDESTALN ASKHITO H-10	STANDARD ASKHITO H-20
			SOLID ASKHITO H-20
30" (762 mm)	2830AG	PEDESTALN ASKHITO H-20	STANDARD ASKHITO H-20
			SOLID ASKHITO H-20


 SHEET
 OF 6

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