CITY OF CORCORAN

STANDARD DETAIL PLATES

NOTES: 1. STAND

1. STANDARD DETAILS PLATES ARE UPDATE ANNUALLY. LATEST VERSION WILL BE ENFORCED. 2. REFERENCE ON CITY PLATES ARE TO MNDOT 2020 EDITION SPECIFICATIONS.



COVER

LAST REVISION: JUL 2023

PLATE NO.

GEN-RAL GEN-RAL GEN-RAL GEN-RAL GEN-RAL GEN-RAL STANDARD DETAILS INDEX GEN-RAL STANDARD DETAILS INDEX GEN-RAL STRUET SIGN DETAILS ONCERTE GEN-A STRUET SIGN DETAIL-BOULEVARD GEN-A GEN-A FUTURE TARKER SIGN GEN-A PRIVATE RIVE SIGN GEN-A PRIVATE RIVE SIGN GEN-A PRIVATE RIVE SIGN GEN-A PRIVATE RIVE SIGN GEN-A PRIVATE RIVE SIGN GEN-A PRIVATE RIVE SIGN GEN-A PUTURE THROUGH STRUET SIGN GEN-A SANTARY SEWER MANHOLE SAN-A SANTARY SEWER SURCE CONNECTION SAN-5 WATER TIGHT CASTING FOR SANTARY SEWER MANHOLE WITH REINFORCED TOP SLAB SAN-4 SANTARY SEWER SERVICE CONNECTION SAN-7 SANTARY SEWER JUNCTION MANHOLE WITH REINFORCED TOP SLAB STO-4 STORM SEWER MANHOLE WITH SUMP ZY CORDANI MANHOLE IN GREENSPACE STO-1 STORMER STINCTURE STO-1 STORM SEVERE				
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SECTION 3 - WATERMAIN

- WAT-1 WATER HYDRANT
- WAT-2 GATE VALVE AND BOX INSTALLATION
- WAT-3 BUTTERFLY VALVE AND BOX INSTALLATION
- WAT-4 WATERMAIN WET TAP
- WAT-5 WATER SERVICE CONNECTION
- WAT-6 CONCRETE THRUST BLOCKING
- WAT-7 WATERMAIN OFFSETS
- WAT-8 TYPICAL GATE VALVE LAYOUT
- WAT-9 IRRIGATION SYSTEM TEP, METER, AND BACKFLOW PREVENTOR ASSEMBLY
- WAT-10 WATER MAIN INSULATION
- WAT-11 PACER HYDRANT DETAIL
- WAT-12 PACER HYDRANT DOUBLE PUMPER DETAIL

SECTION 4 - STREETS

- STR-1A RESIDENTIAL STREET SECTION
- STR-1B RESIDENTIAL COLLECTOR STREET SECTION
- STR-1C RURAL COLLECTOR STREET SECTION
- STR-1D COMMERCIAL STREET SECTION
- STR-2 RESIDENTIAL STREET DIMENSIONS
- STR-3 GRAVEL ROAD
- STR-4 PRIVATE DRIVE/LONG DRIVEWAY
- STR-5 ROAD SUB DRAIN
- STR-6 CURB AND GUTTER
- STR-7 SURMOUNTABLE CURB TRANSITION AT CATCH BASIN
- STR-8 B618 CURB TRANSITION AT CATCH BASIN
- STR-9 CURB AND GUTTER TRANSITIONS
- STR-10 RESIDENTIAL DRIVEWAY APRON
- STR-11 RESIDENTIAL DRIVEWAY APRON (MOUNTABLE CURB)
- STR-12 RESIDENTIAL DRIVEWAY APRON W/ S.W. (B6 CURB)
- STR-13 RESIDENTIAL DRIVEWAY APRON W/ S.W. (MOUNTABLE CURB)
- STR-14 COMMERCIAL CONCRETE DRIVEWAY APRON
- STR-15 COMMERCIAL CONCRETE DRIVEWAY APRON W/ S.W.
- STR-16 CONCRETE VALLEY GUTTER
- STR-17 RESIDENTIAL DRIVEWAY APRON RURAL ROAD SECTION
- STR-18 TYPICAL CUL-DE-SACS
- STR-19 SIDEWALK CURB RAMP
- STR-20 SIDEWALK/BIKE PATH CURB RAMP GENERAL LOCATION
- STR-21 DOUBLE SIDEWALK/BIKE PATH CURB RAMP
- STR-22 CONCRETE WALKS AND BITUMINOUS TRAILS
- STR-23 PRIVATE DEVELOPMENT TURNAROUND
- STR-24 CENTER ISLAND CURB RAMP
- STR-25 TEMPORARY CUL-DE-SAC



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SECTION 5 - PIPE BEDDING

- BED-1 BEDDING METHODS FOR PVC
- BED-2 BEDDING METHODS FOR RCP AND DIP
- BED-3 IMPROVED PIPE FOUNDATION FOR RCP AND DIP

SECTION 6 - LANDSCAPING

- LAN-1 DECIDUOUS TREE PLANTING
- LAN-2 CONIFEROUS TREE PLANTING
- LAN-3 DECIDUOUS SHRUB PLANTING
- LAN-4 SODDING

SECTION 7 - EROSION CONTROL

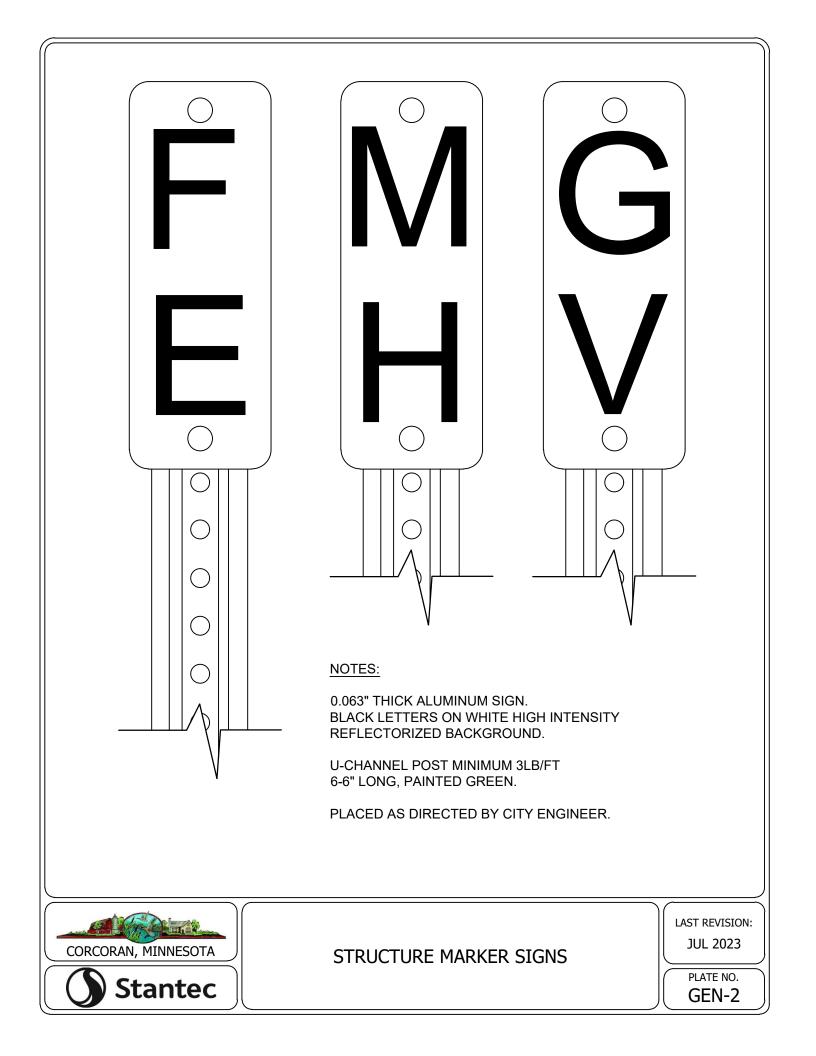
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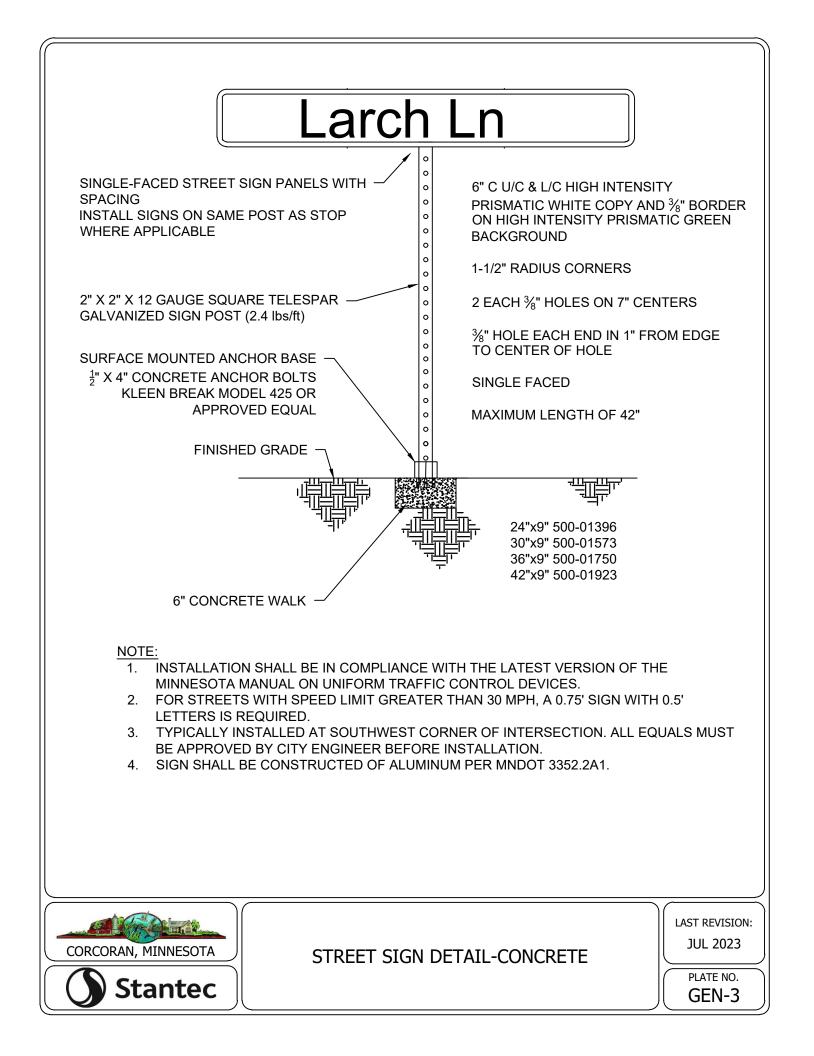


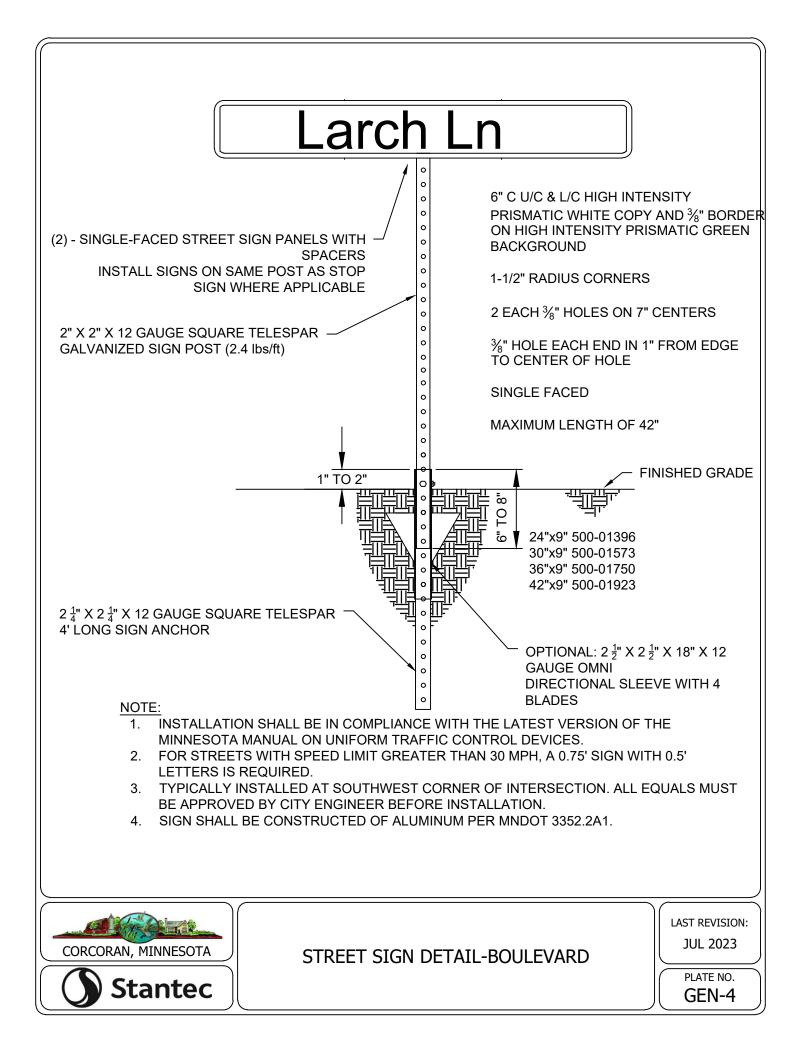
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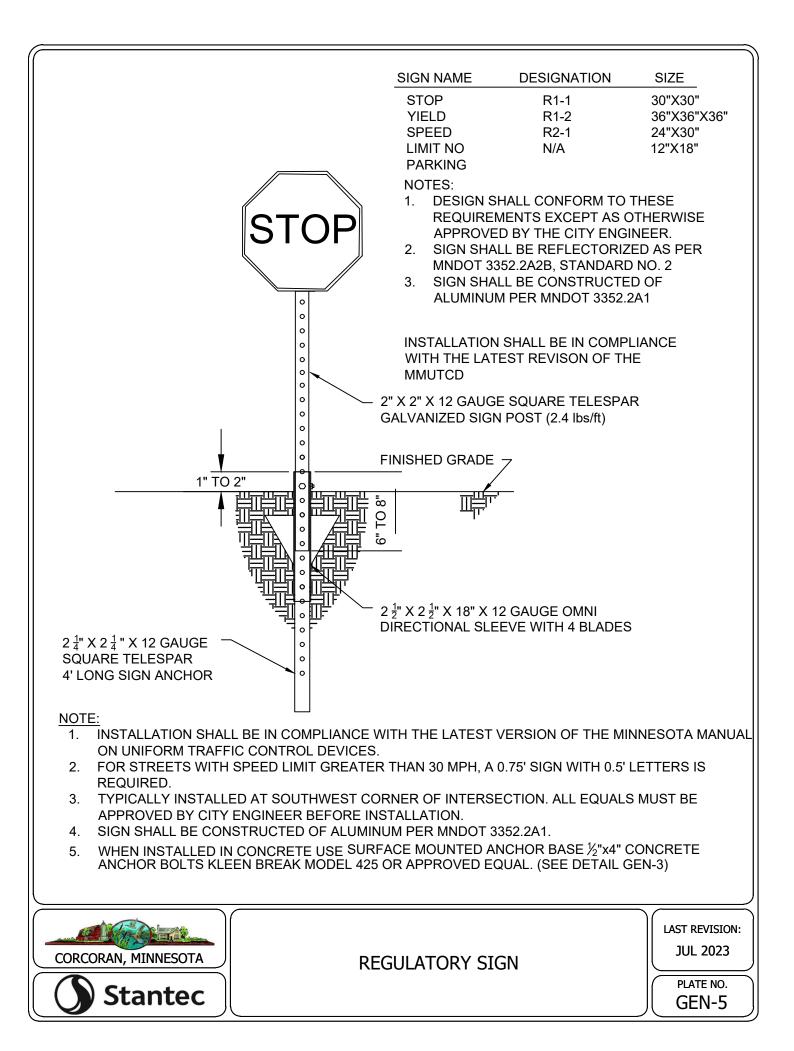
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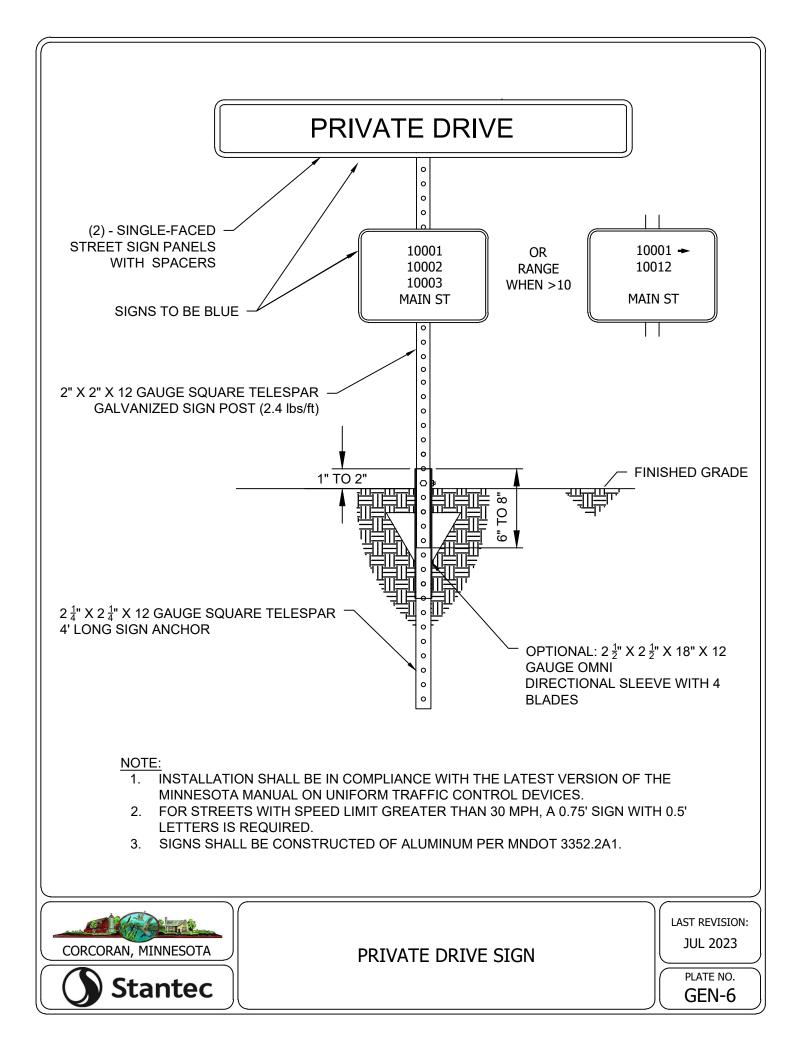
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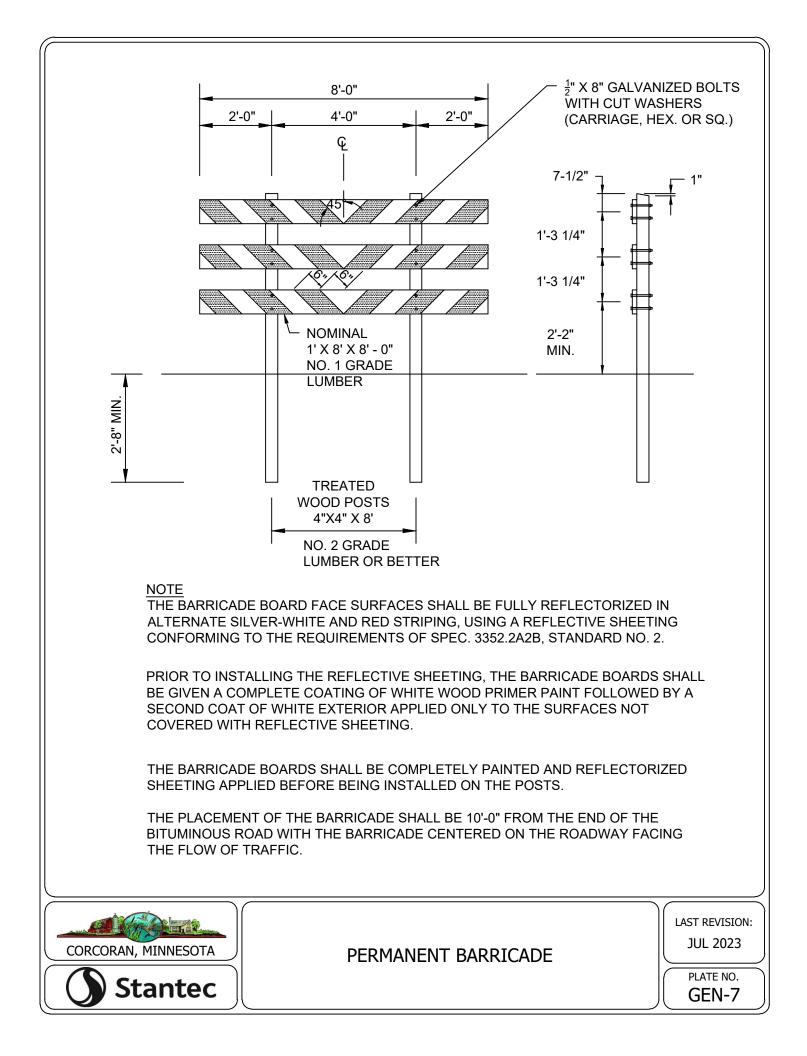


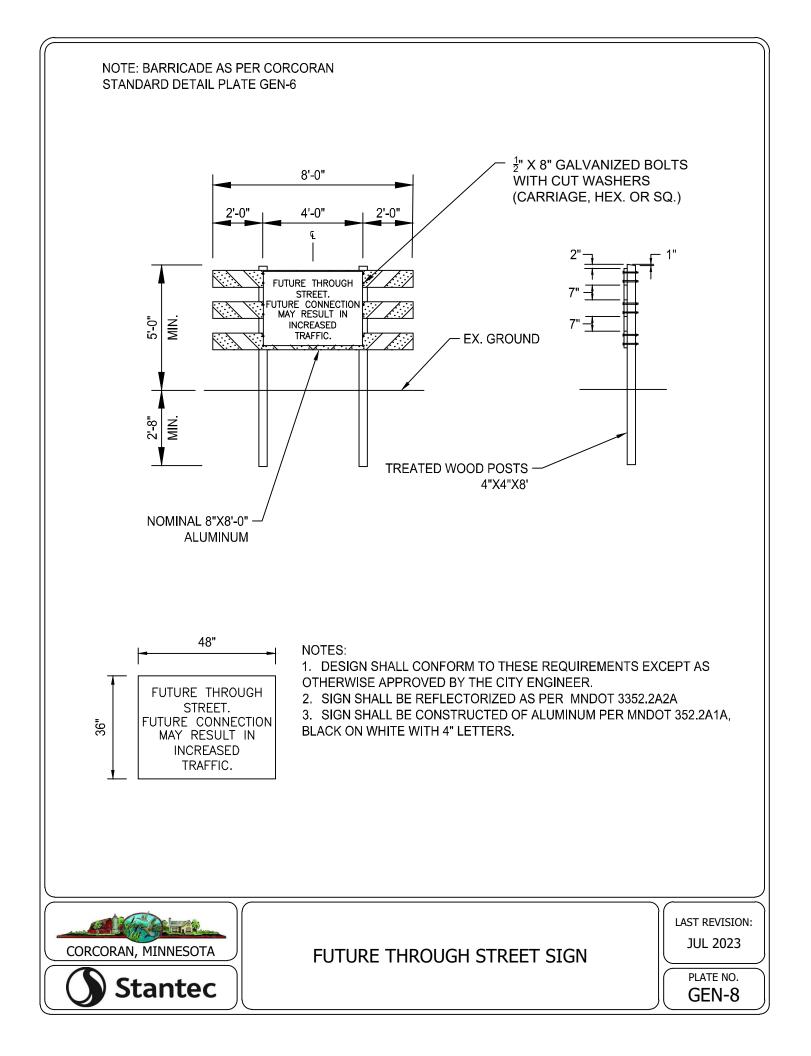


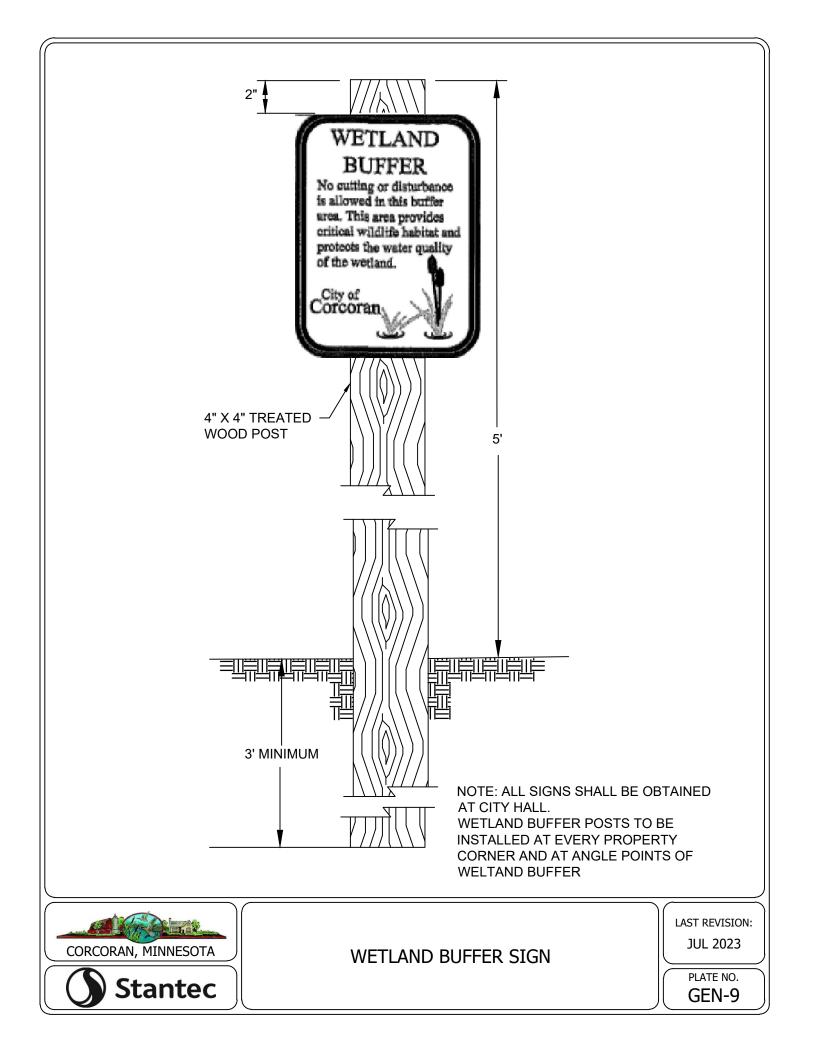












GENERAL TESTING NOTES:

- PIPE MATERIAL AND TESTING REQUIREMENTS MAY CHANGE DEPENDING ON SOIL CONDITIONS AND OTHER FACTORS.
- ALL TESTING TO OCCUR BEFORE BUILDING PERMITS ARE ISSUED OR CONSTRUCTION OF WEAR COURSE PAVEMENT.
- 3 CITY TO BE NOTIFIED MINIMUM 48 HOURS BEFORE ANY UTILITY TESTING.

SANITARY SEWER TESTING NOTES:

- A MINIMUM WAITING TIME PERIOD OF 30 DAYS AFTER INSTALLATION IS REQUIRED BEFORE DEFLECTION TEST MAY BE PERFORMED.
- TRACER WIRE TEST TO BE PERFORMED ON ALL SANITARY 2. SEWER AND SANITARY SEWER SERVICES BY METROTECH OR APPROVED EQUAL.
- AIR TEST WILL BE PERFORMED AT A PRESSURE OF 4.0 PSIG GREATER THAN THE AVERAGE BACKPRESSURE OF ANY GROUND WATER PRESENT.
- 4. *IF GROUNDWATER IS PRESENT, FOR EVERY FOOT OF GROUND WATER ABOVE THE PIPE SPRING LINE, INCREASE THE GAGE TEST PRESSURE BY 0.43 PSI (TO COMPENSATE FOR WATER BACK PRESSURE).
- 5. THE SEWER LINE WHICH IS BEING TESTED WILL BE ACCEPTED AS PASSING THE AIR TEST IF THE PRESSURE DOES NOT DROP MORE THAN 0.0 PSI IN LESS TIME THAN 30 SECONDS PER INCH IN DIAMETER OF THE PIPE BEING TESTED.
- TELEVISING SHALL BE PERFORMED ON ALL NEWLY 6. INSTALLED GRAVITY SEWER FOLLOWING ALL OTHER SUCCESSFUL TESTING. TELEVISING VIDEO AND REPORT TO BE SUBMIT TO THE ENGINEER VIA EMAIL AND HARD COPY.
- 7 SANITARY SEWER TO BE JETTED PRIOR TO TELEVISING.

WATERMAIN TESTING NOTES:

- WATERMAIN TESTING TO INCLUDE ALL CURB STOPS AND HYDRANT LEADS.
- HYDROSTATIC PRESSURE TEST PROCEDURE AS FOLLOWS: 2.
- 2.1. PUMP SYSTEM TO MINIMUM 150 PSI.
- THE WATERMAIN SYSTEM WILL BE ACCEPTED AS 2.2. PASSING IF THE PRESSURE HAS NO DROP IN PRESSURE IN 2 HOURS
- ALL BUTTERFLY VALVES TO BE INDIVIDUALLY 2.3. HYDROSTATICALLY TESTED AGAINST BOTH SIDES OF THE VALVE FOR A MINIMUM OF 30 MINUTES WITH NO DROP IN PRESSURE.
- 3. BACTERIA TEST (MINIMUM 2 SETS)
- 1 SET 24 HOUR MINIMUM AFTER 1ST FLUSH, THEN 1 SET 3.1. FOR EVERY 1200 LF.
- 2ND TEST TO BE PERFORMED 24 HOURS AFTER 1ST 3.2. TEST HAS DETERMINED TO BE PASSING.
- TRACER WIRE TEST TO BE PERFORMED BY A METROTECH 4 OR APPROVED EQUAL. TRACER ENTIRE LINE/ALL SERVICES TO CURB STOPS.
- WATERMAIN TESTING TO MEET MINNESOTA DEPARTMENT 5. OF HEALTH STANDARDS

STORM SEWER TESTING NOTES:

- TELEVISING SHALL BE PERFORMED ON ALL DRAINTILE AFTER WEAR COURSE.
- TELEVISING SHALL BE PERFORMED ON ALL REAR YARD 2 DRAINTILE AFTER RESTORATION IS COMPLETE.
- TELEVISE DRAINTILE IN THE PRESENCE OF CITY AFTER PRIVATE 3. UTILITIES ARE INSTALLED.
- 4 TELEVISING SHALL BE PERFORMED ON ALL NEWLY INSTALLED STORM SEWER PER ENGINEERS REQUEST

LAST REVISION:

JUL 2023

PLATE NO. GEN-10

MANDREL SIZE

SDR 35 (DEPTH<16')					
PIPE SIZE	DEFLECTION TEST		AIR TEST		
(IN)	BASE I. D. (IN)	5% DEFLECTION (IN)	PRESSURE* (PSIG)	TIME (MIN)	
4	3.874	3.68	4	2	
6	5.742	5.45	4	3	
8	7.665	7.28	4	4	
10	9.563	9.08	4	5	
12	11.361	10.79	4	6	
15	13.898	13.2	4	7.5	

	PS 46 (DEPTH<16')					
PIPE SIZE	DEFLECTION TEST		AIR TEST			
(IN)	BASE I. D. (IN)	5% DEFLECTION (IN)	PRESSURE* (PSIG)	TIME (MIN)		
18	16.976	16.13	4	9		
21	20.004	19	4	10.5		
24	22.48	21.36	4	12		
27	25.327	24.06	4	13.5		

	SDR 26 (16' <depth<25')< th=""></depth<25')<>					
PIPE SIZE	DEFLECTION TEST		AIR TES	Ξ.		
(IN)	BASE I. D. (IN)	5% DEFLECTION (IN)	PRESSURE* (PSIG)	TIME (MIN)		
6	5.612	5.33	4	3		
8	7.488	7.12	4	4		
10	9.342	8.87	4	5		
12	11.102	10.54	4	6		
15	13.575	12.9	4	7.5		

PS 115 (DEPTH<16')					
PIPE SIZE	DEFLECTION TEST		AIR TEST		
(IN)	BASE I. D. (IN)	5% DEFLECTION (IN)	PRESSURE* (PSIG)	TIME (MIN)	
18	16.586	15.76	4	9	
21	19.545	18.57	4	10.5	
24	21.964	20.87	4	12	
27	24.744	23.51	4	13.5	
30	28.763	27.32	4	15	

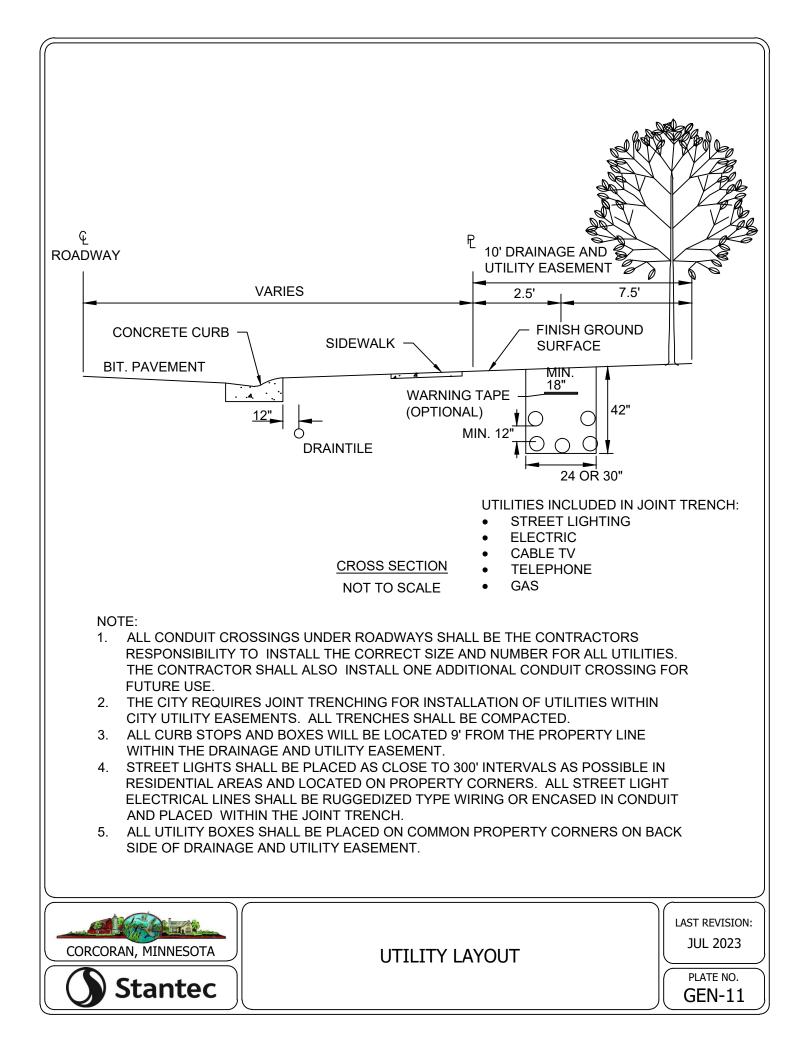
	C-900 DR 18 (25' <depth)< th=""></depth)<>					
PIPE SIZE	DEFLECTION TEST		AIR TEST			
(IN)	BASE I. D. (IN)	5% DEFLECTION (IN)	PRESSURE* (PSIG)	TIME (MIN)		
6	5.934	5.49	4	3		
8	7.754	7.37	4	4		
10	9.487	9.01	4	5		
12	11.265	10.7	4	6		
14	13.05	12.4	4	7		
16	14.831	14.09	4	8		
18	16.609	15.78	4	9		
20	18.386	17.47	4	10		
24	21.94	20.84	4	12		

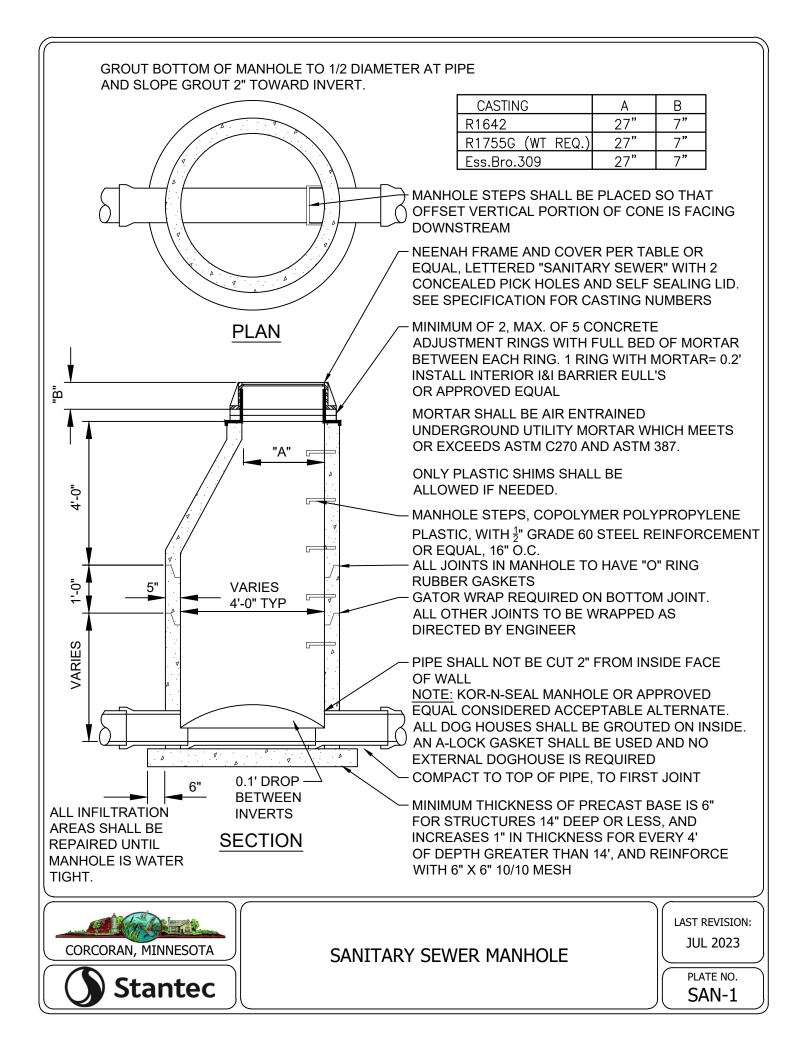
FORCEMAIN TESTING NOTES:

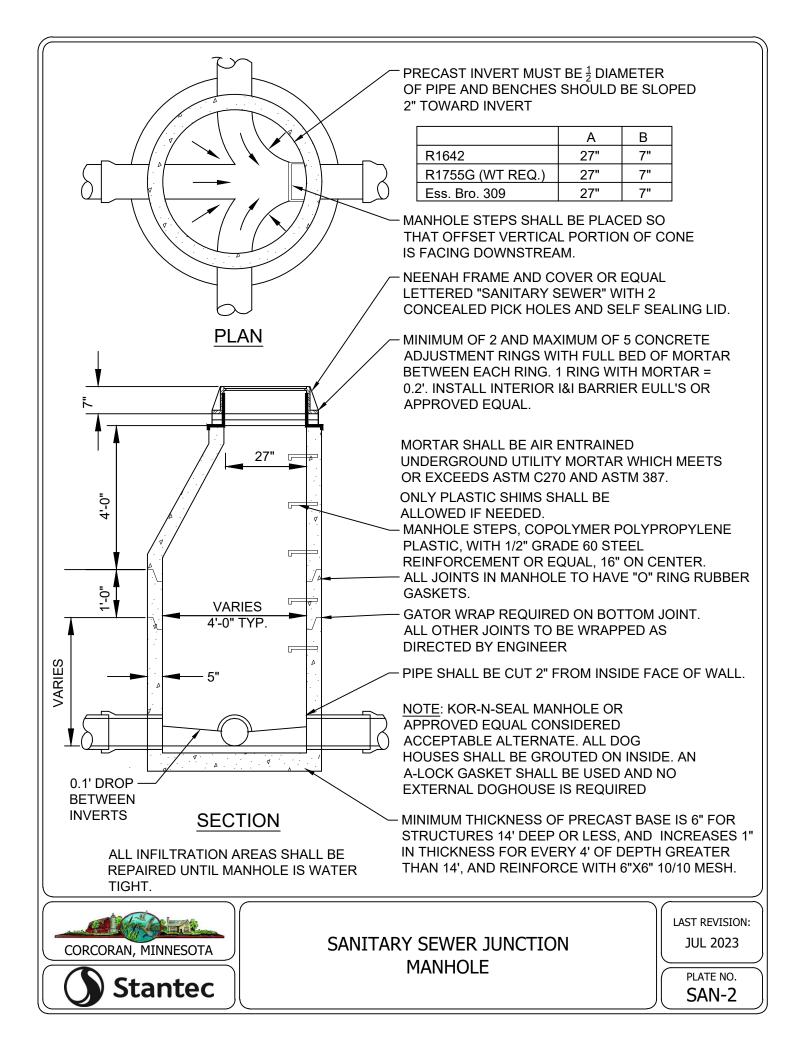
- 1. FORCEMAIN HYDROSTATIC TEST PROCEDURE AS FOLLOWS:
- PUMP SYSTEM TO MINIMUM 75 PSI 11
- THE FORCEMAIN SYSTEM WILL BE ACCEPTED AS 1.2 PASSING IF THE PRESSURE HAS NO DROP IN PRESSURE IN 2 HOURS.
- 1. GAUGE TO BE USED WILL BE ASHCROFT, MODEL 1082, 4 1/2 " DIAMETER IN ONE PSI INCREMENTS OR APPROVED EQUAL.

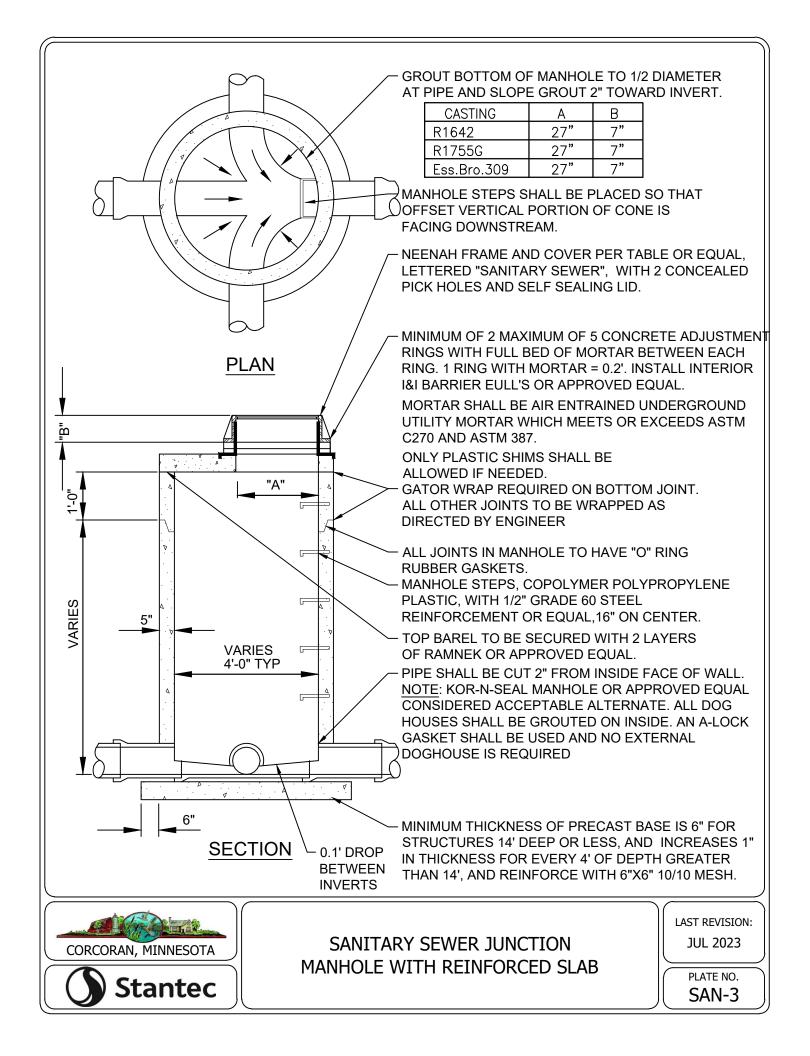


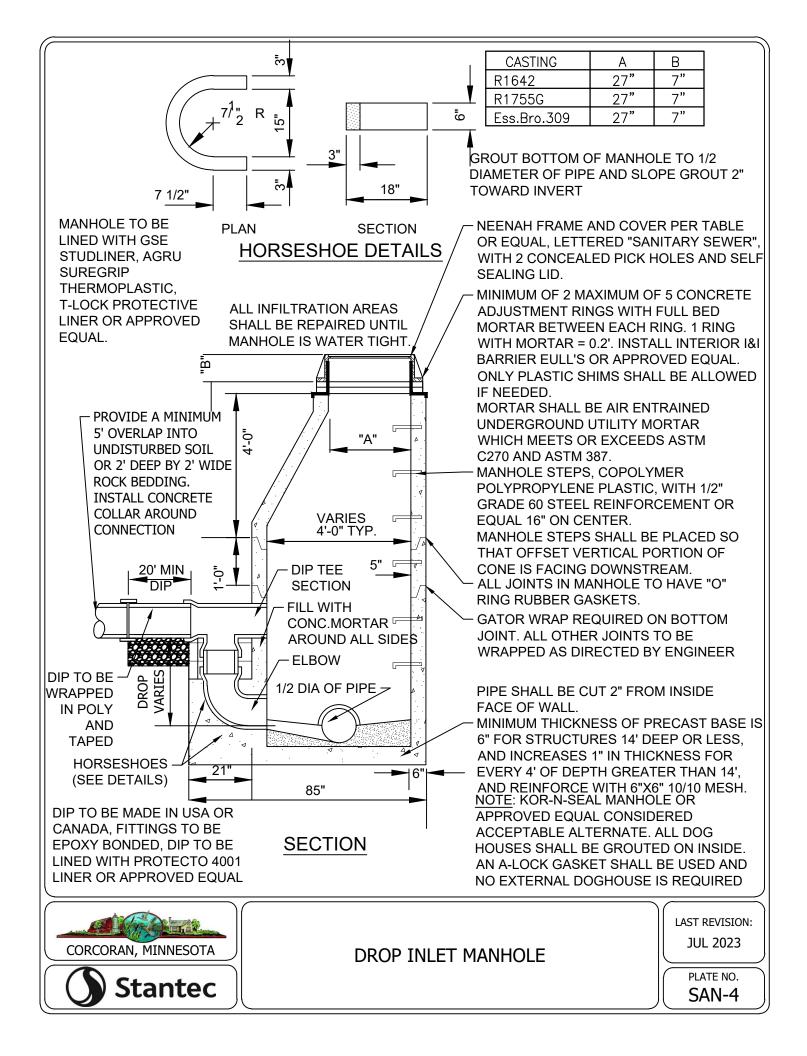
PIPE MATERIAL AND TESTING REQUIREMENTS

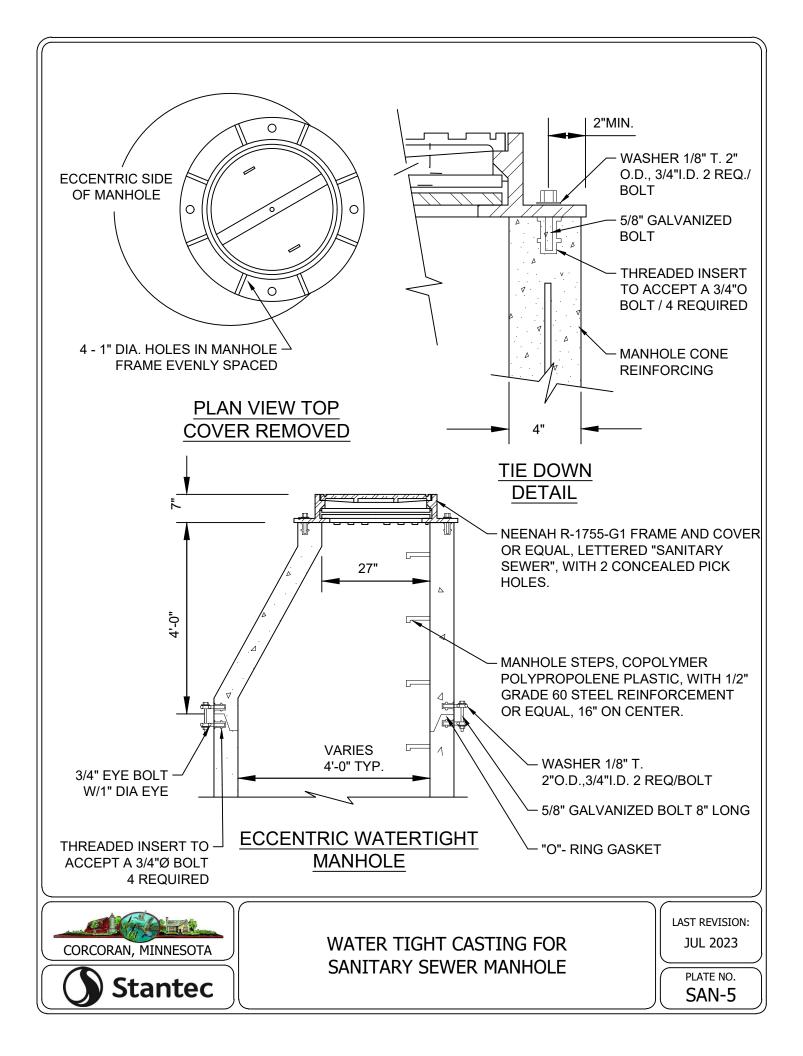


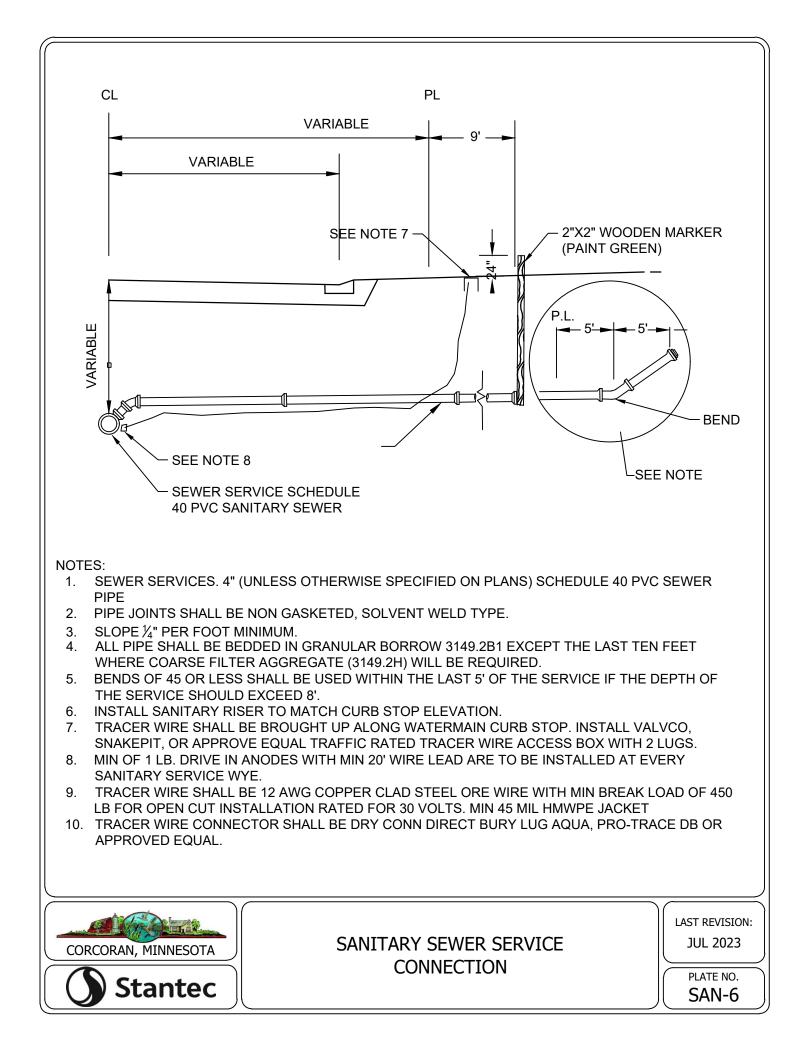


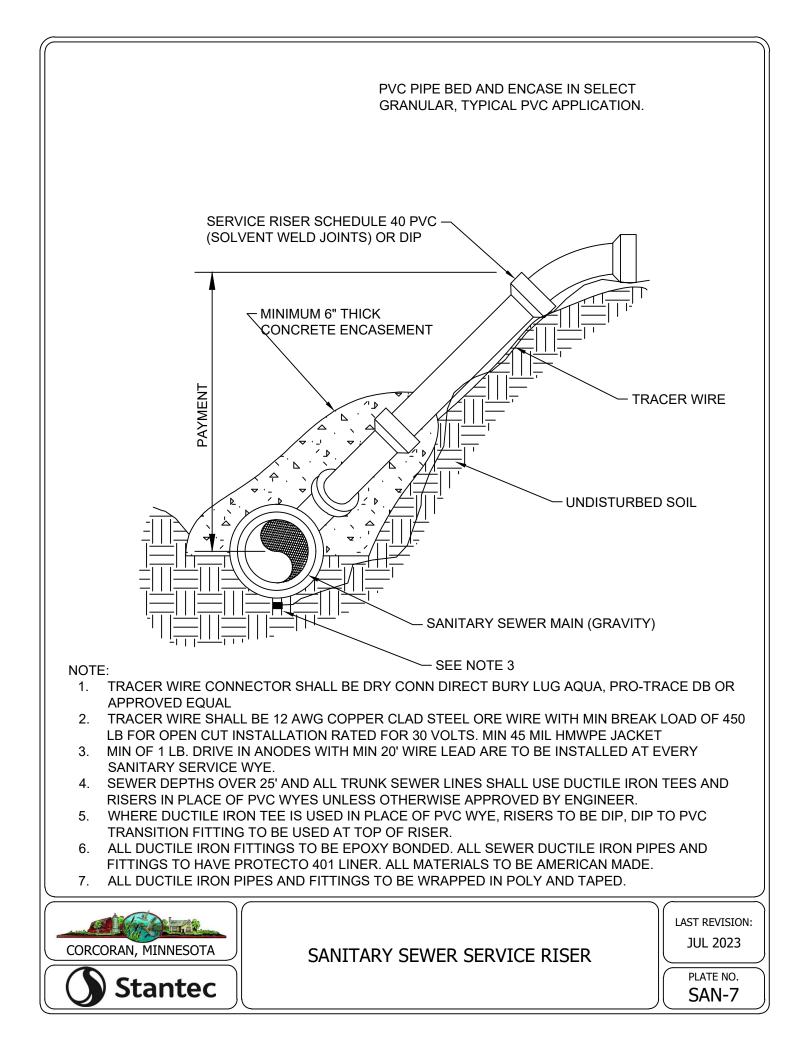


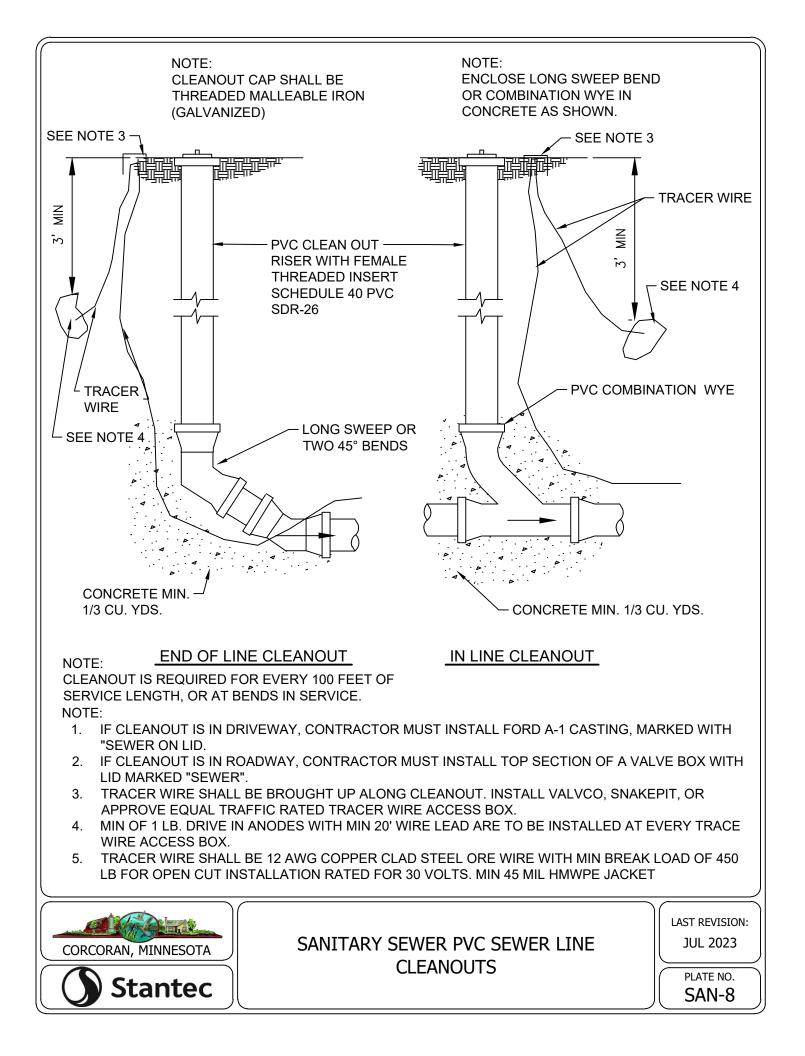


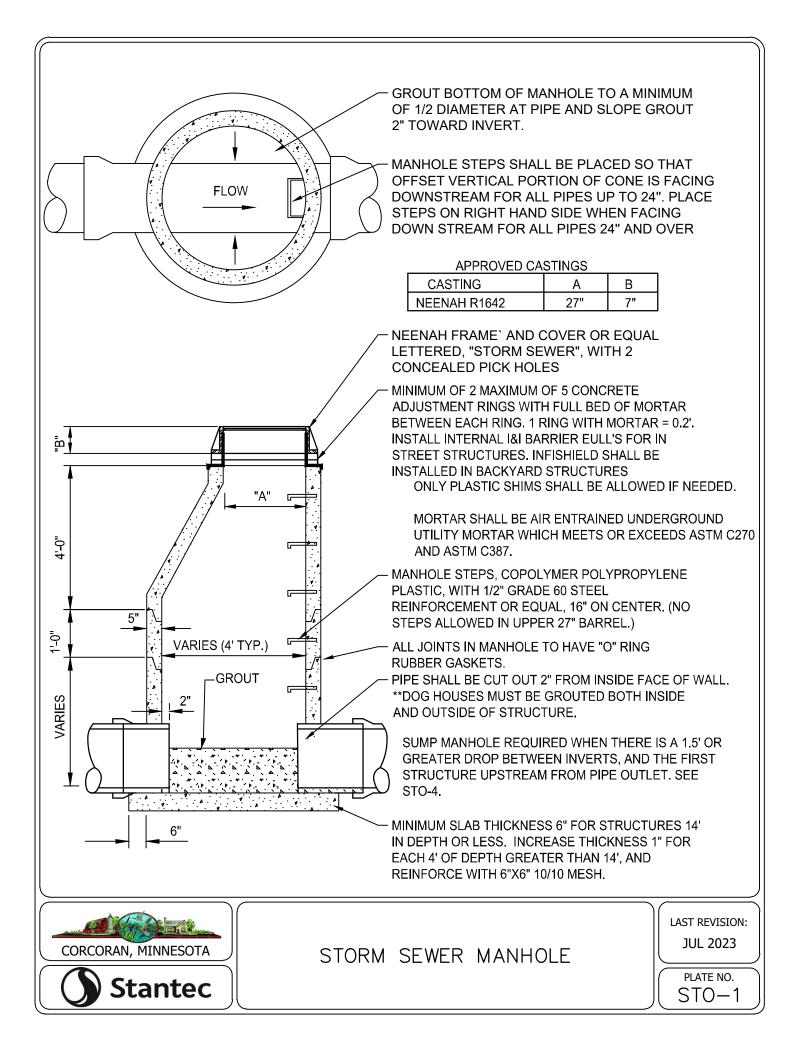


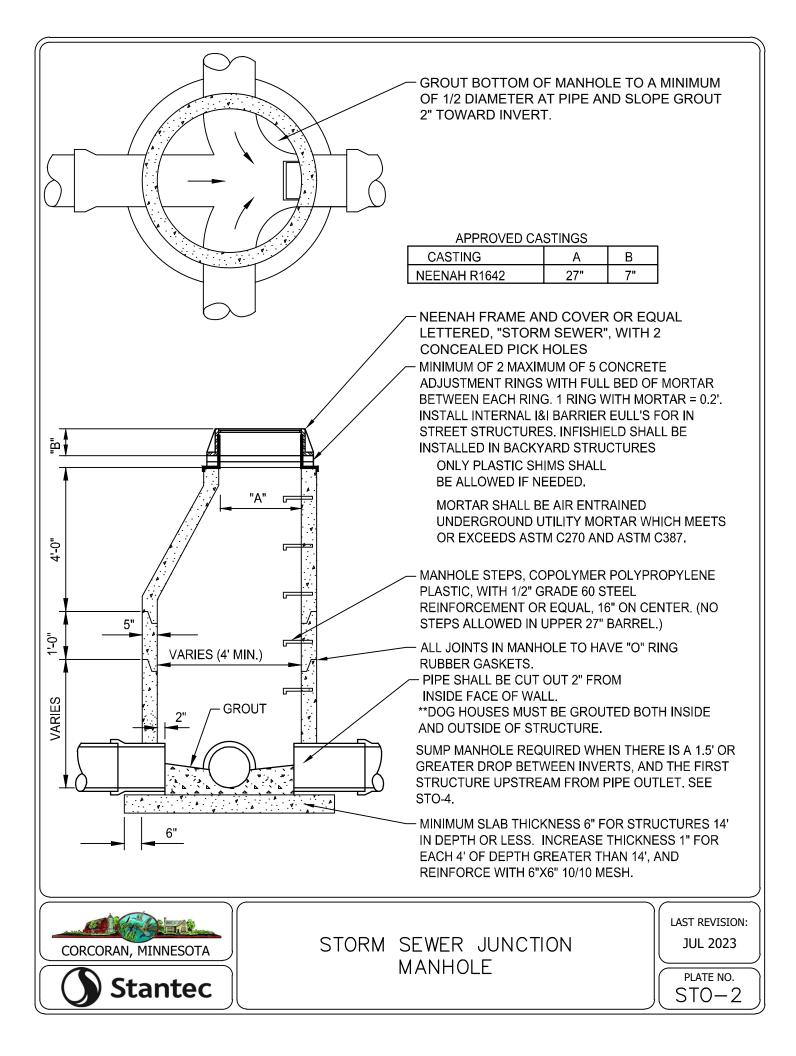


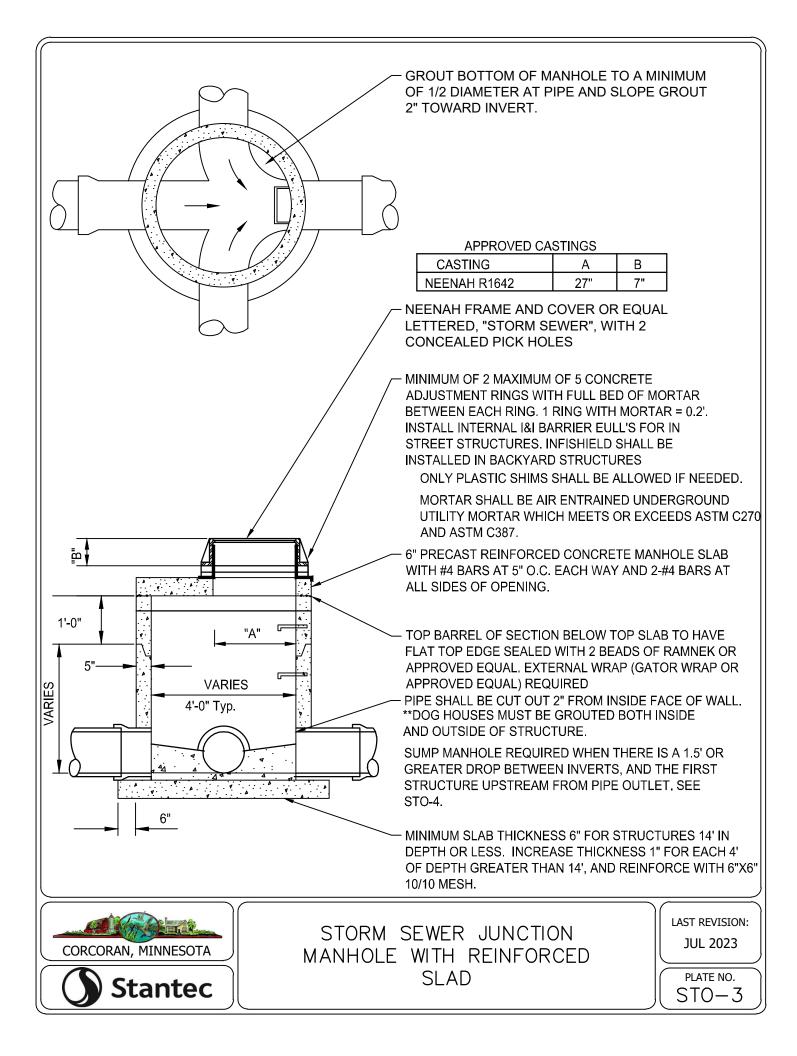


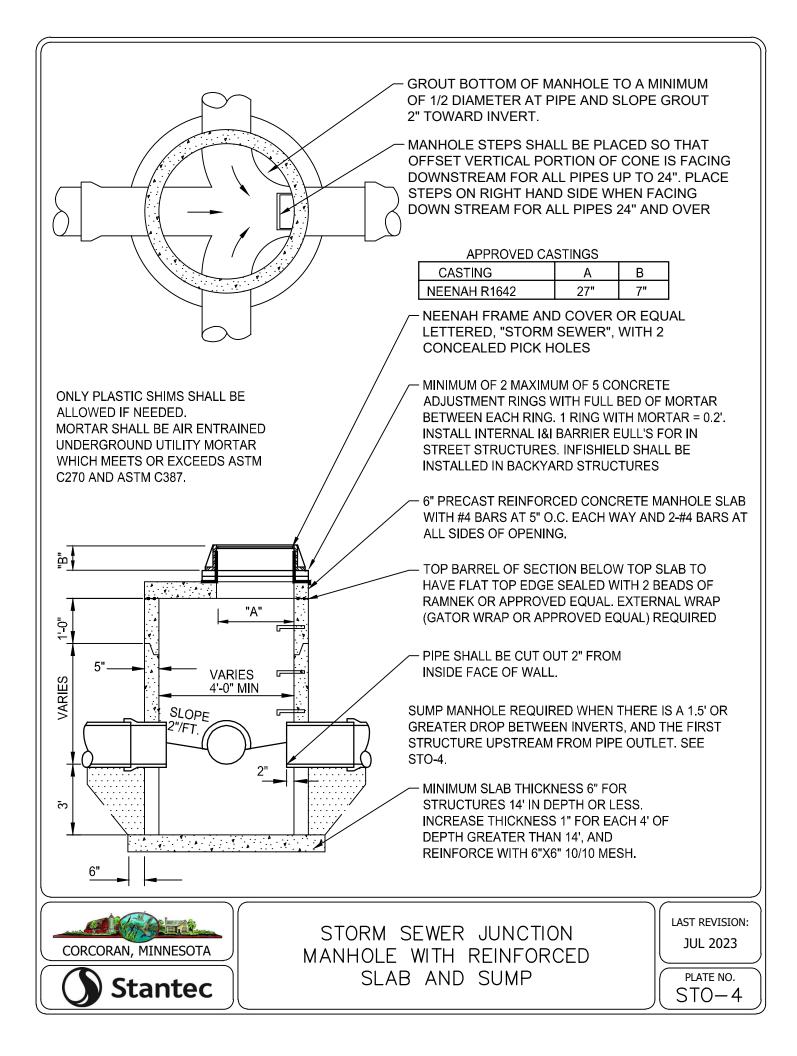


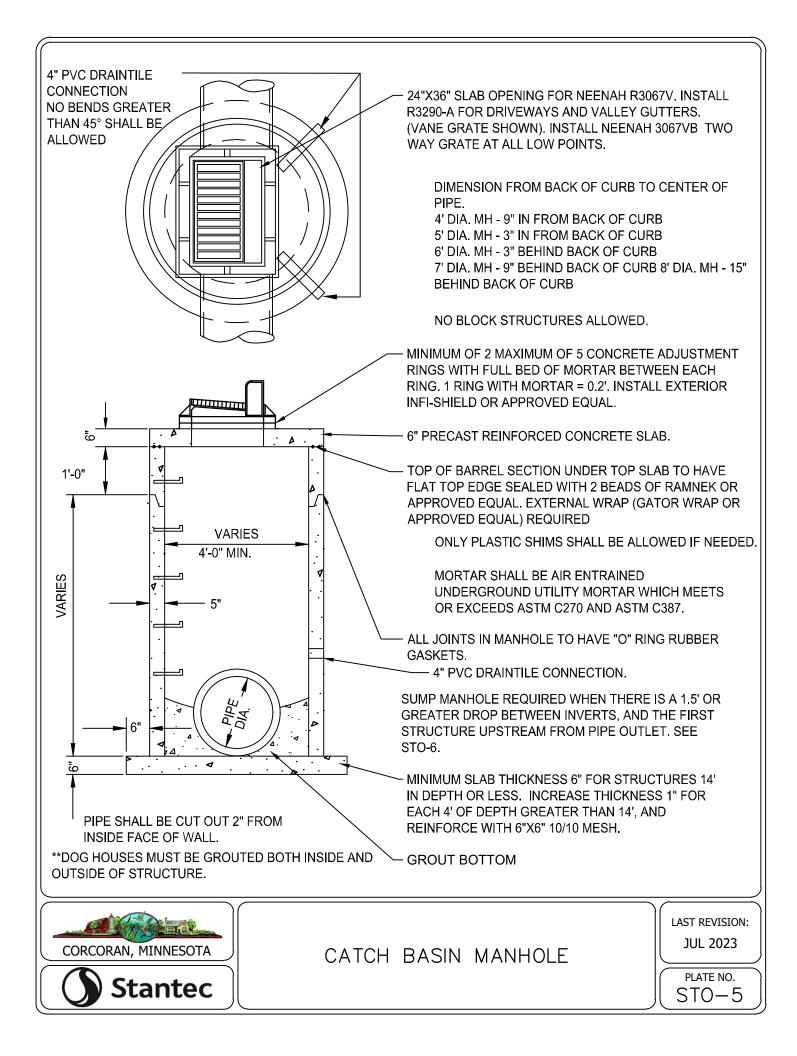


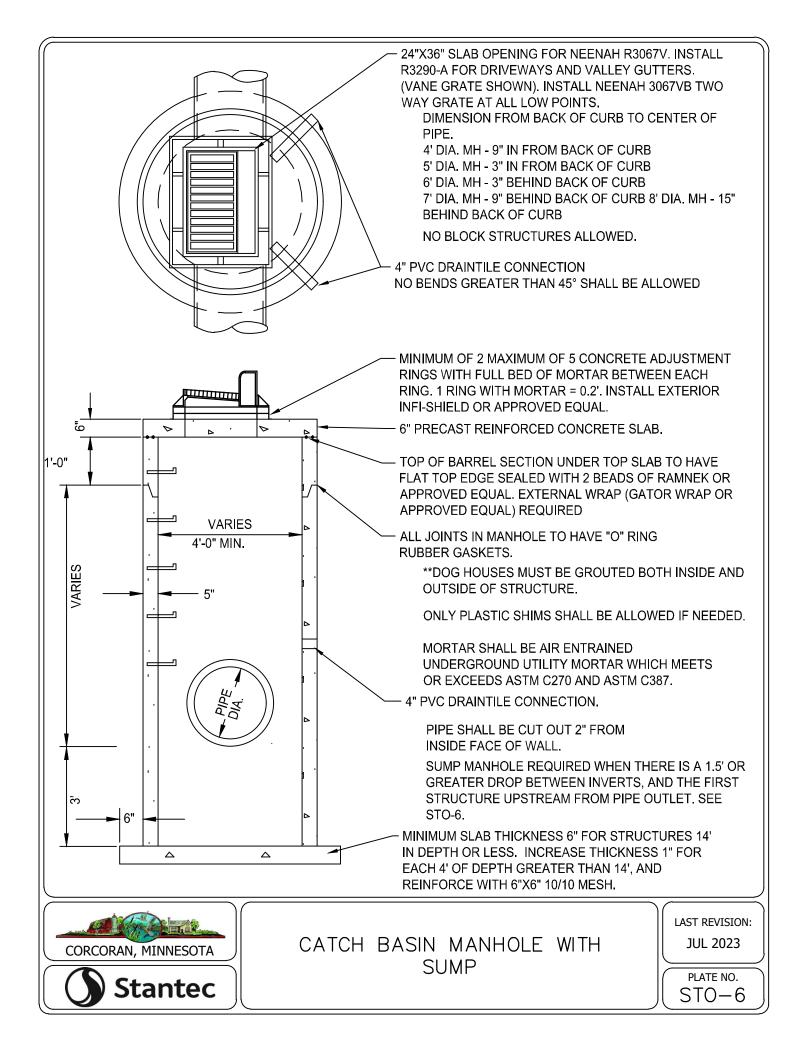


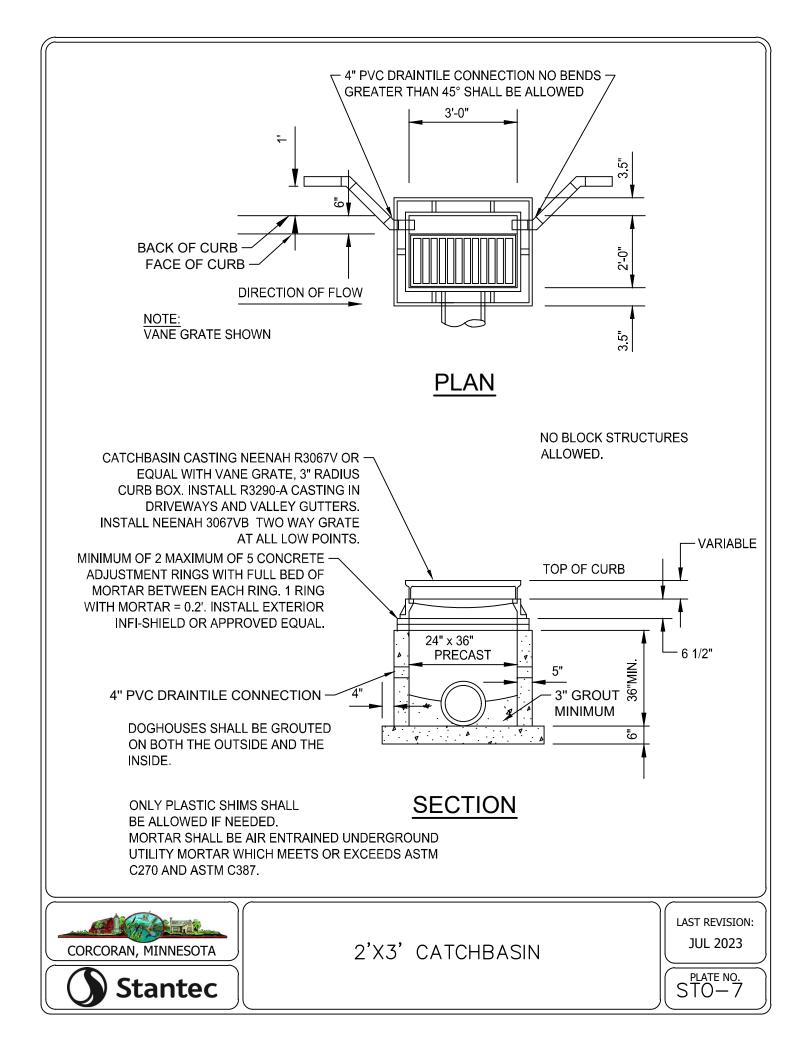


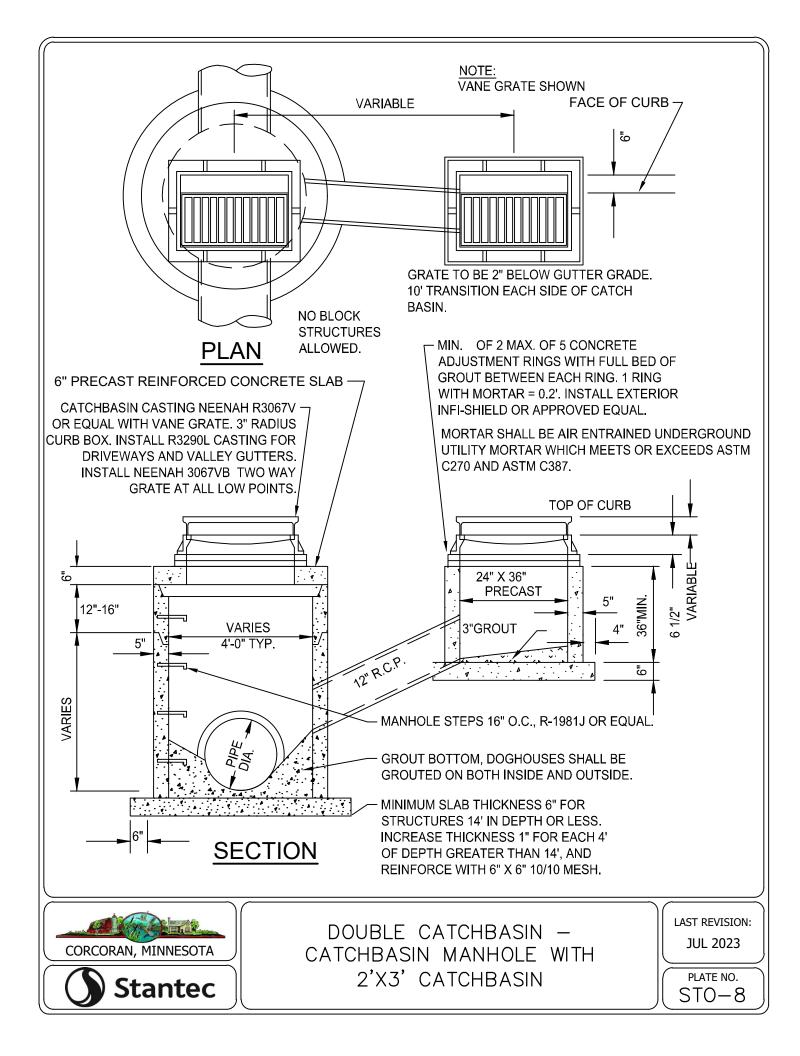


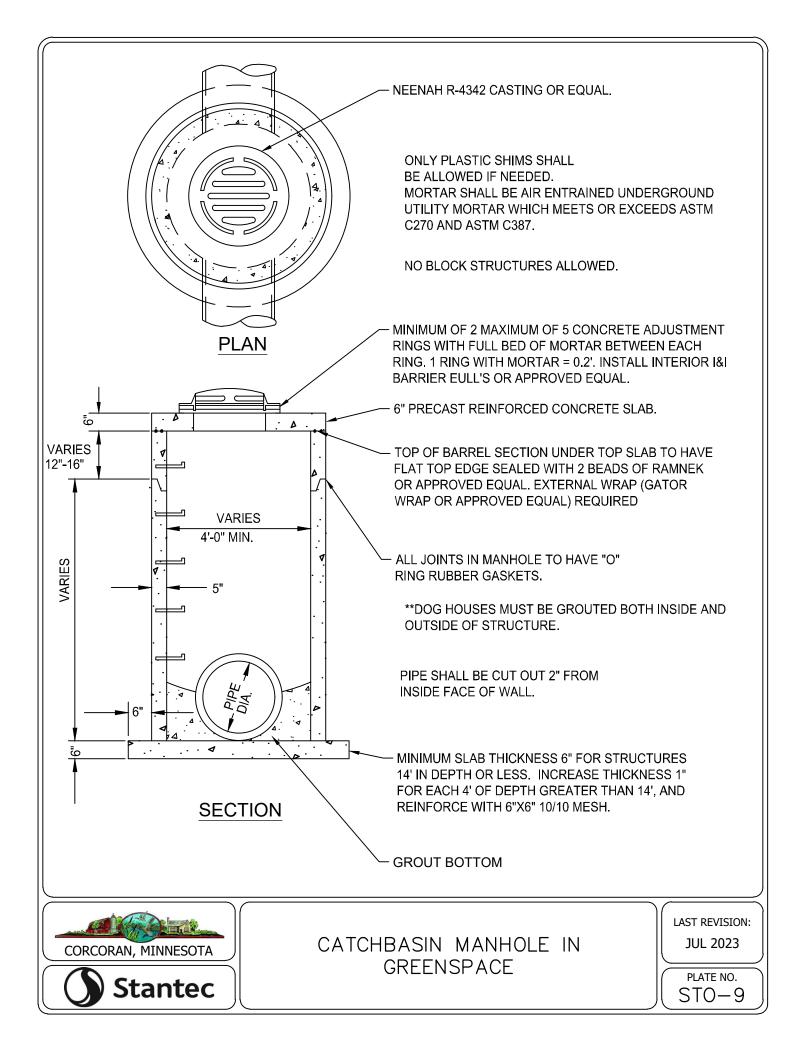


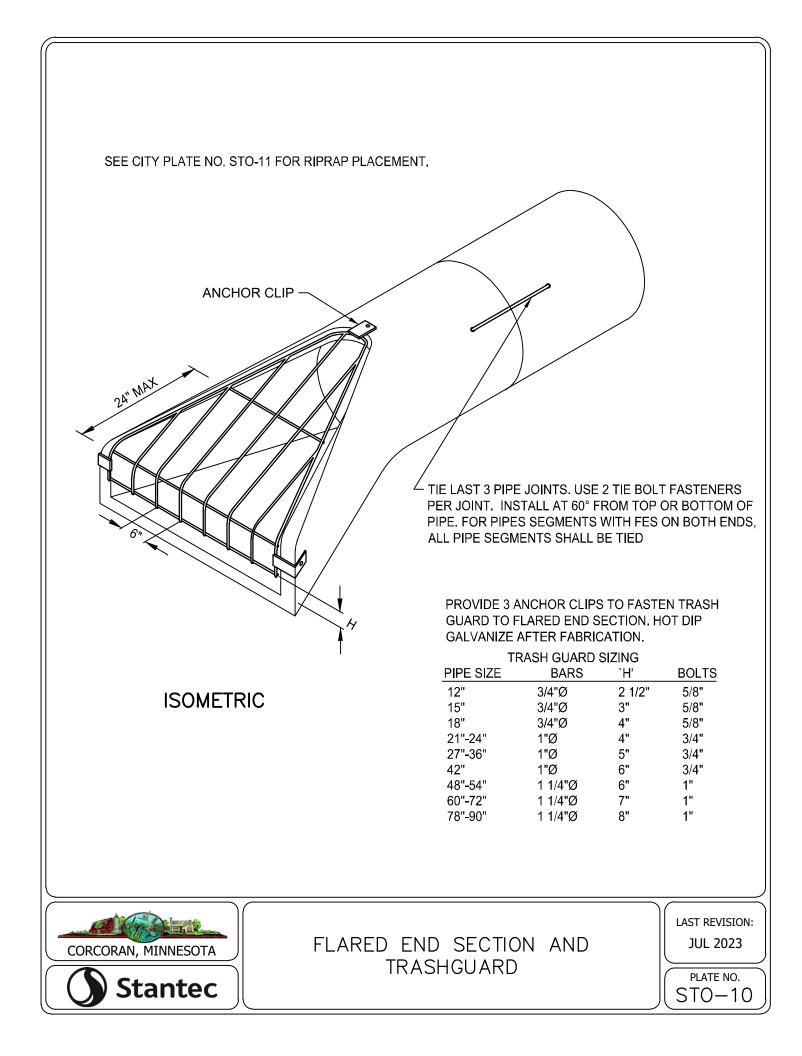


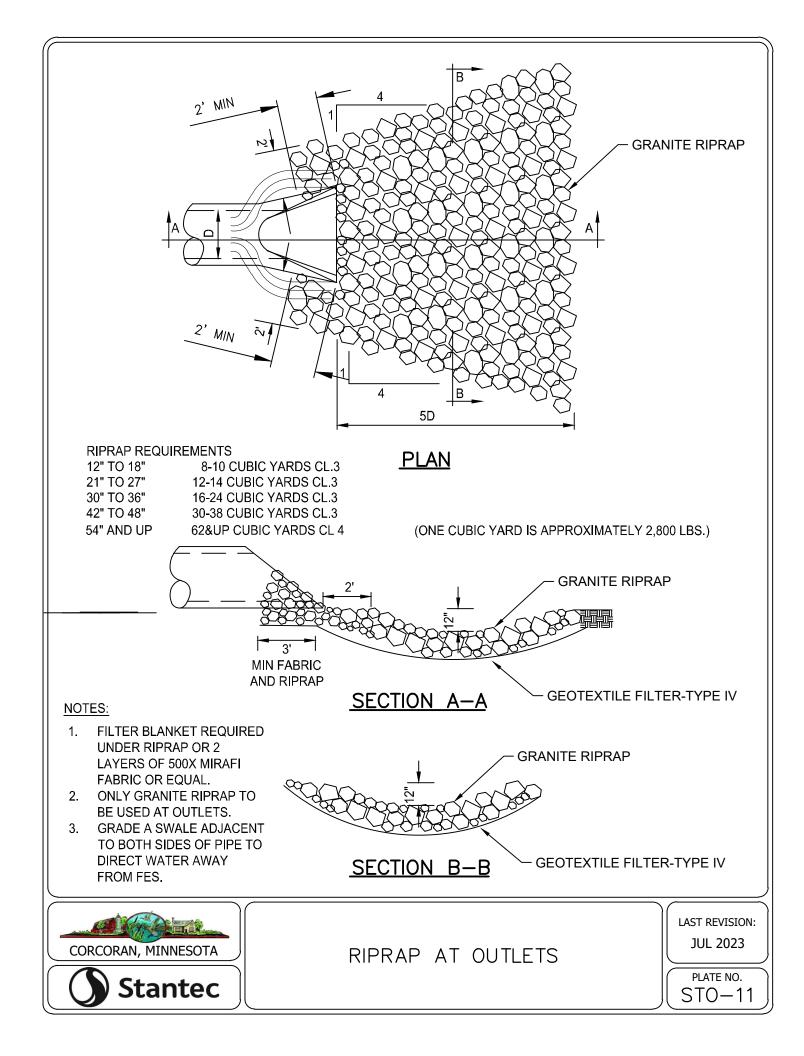


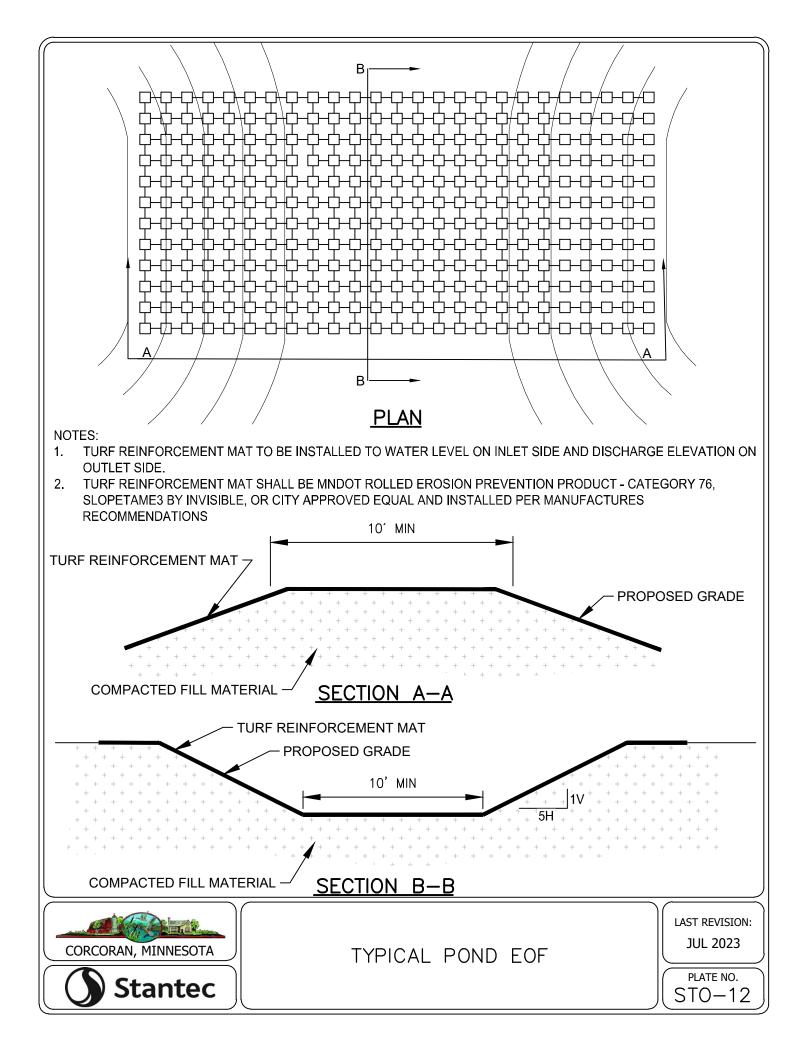


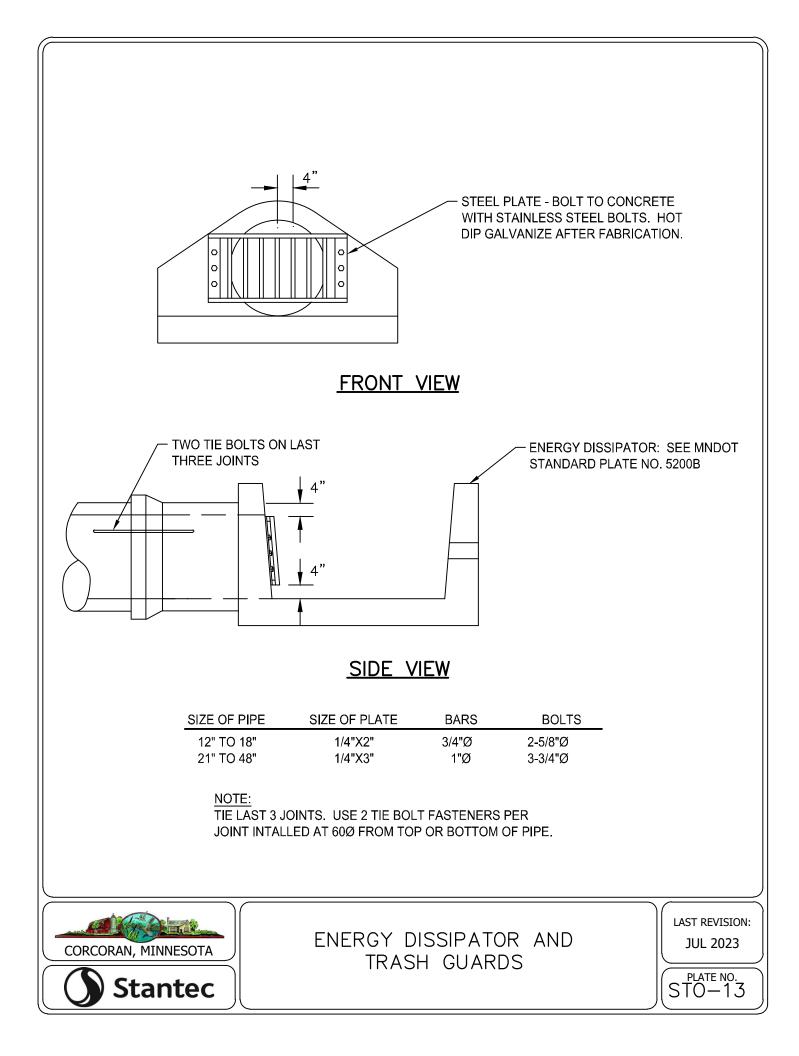


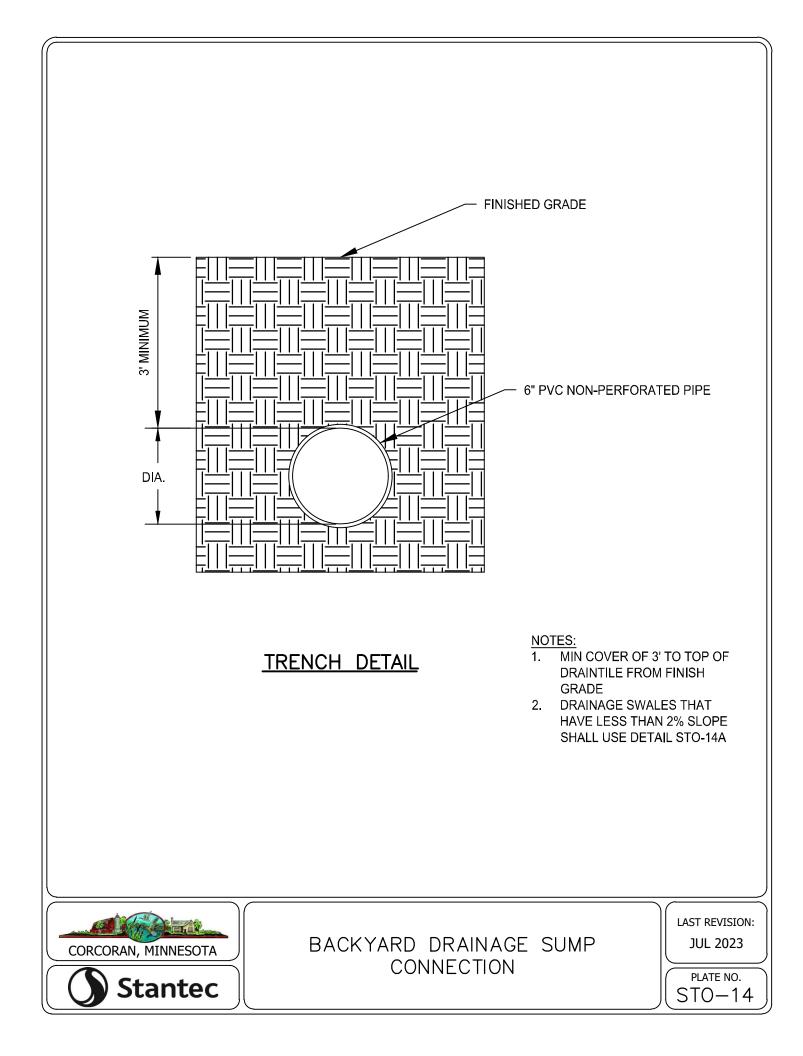


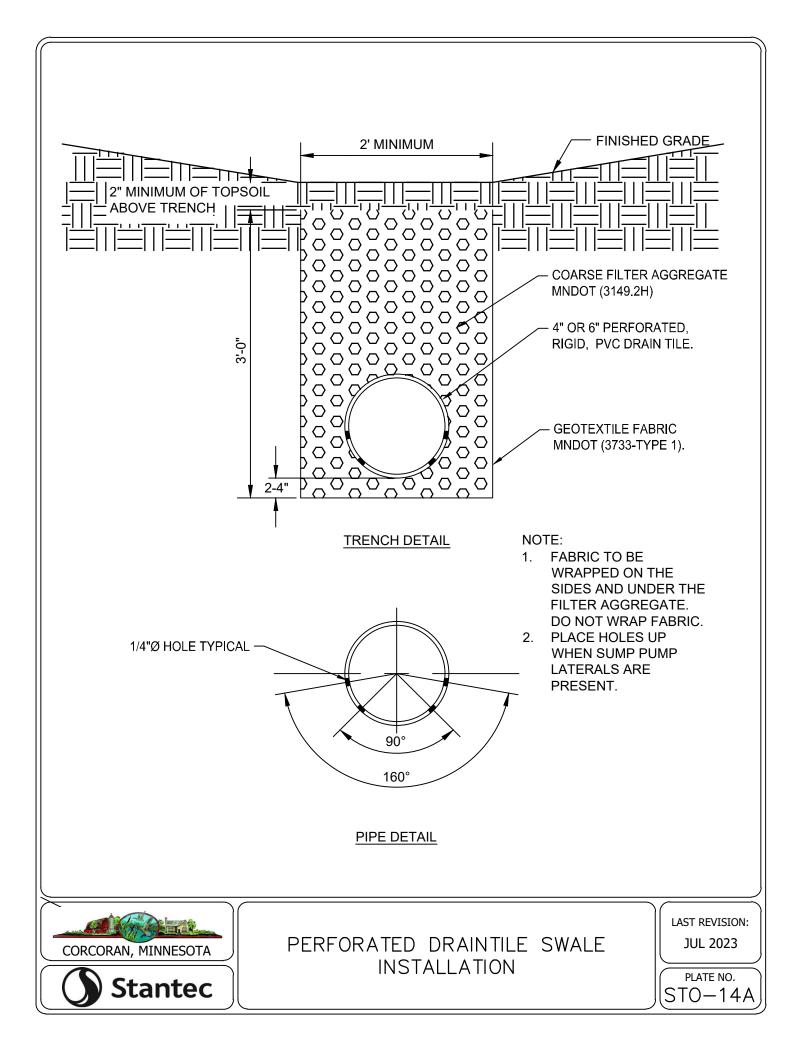


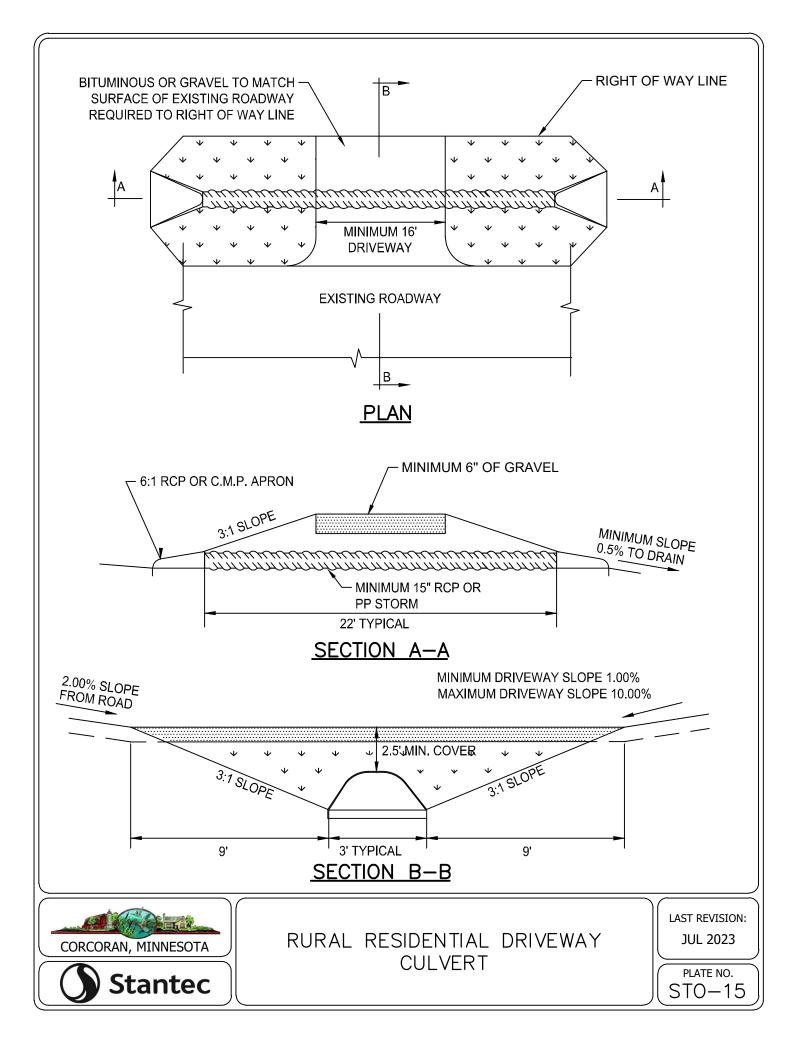


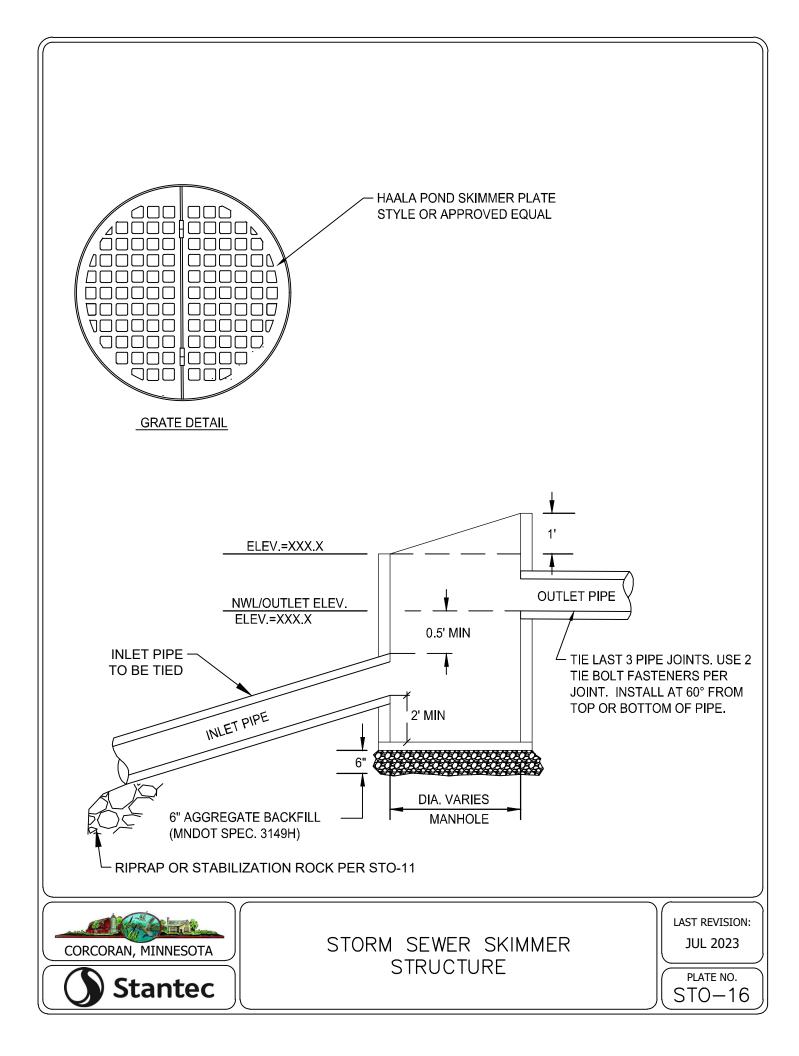


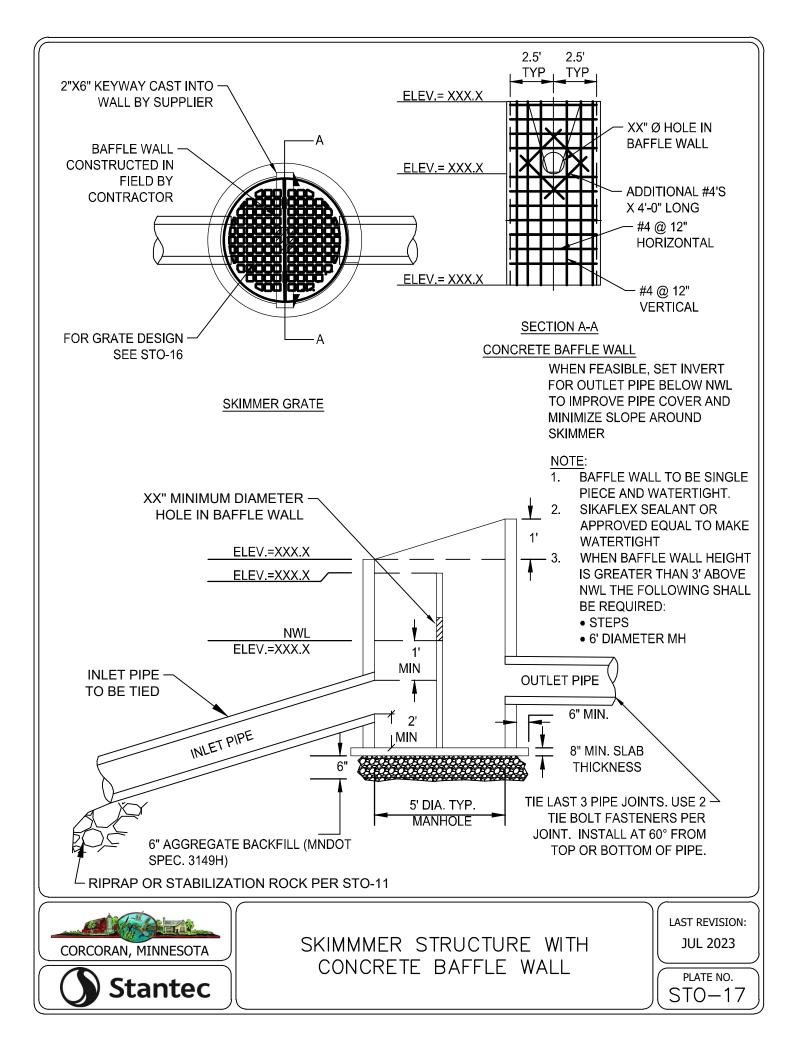


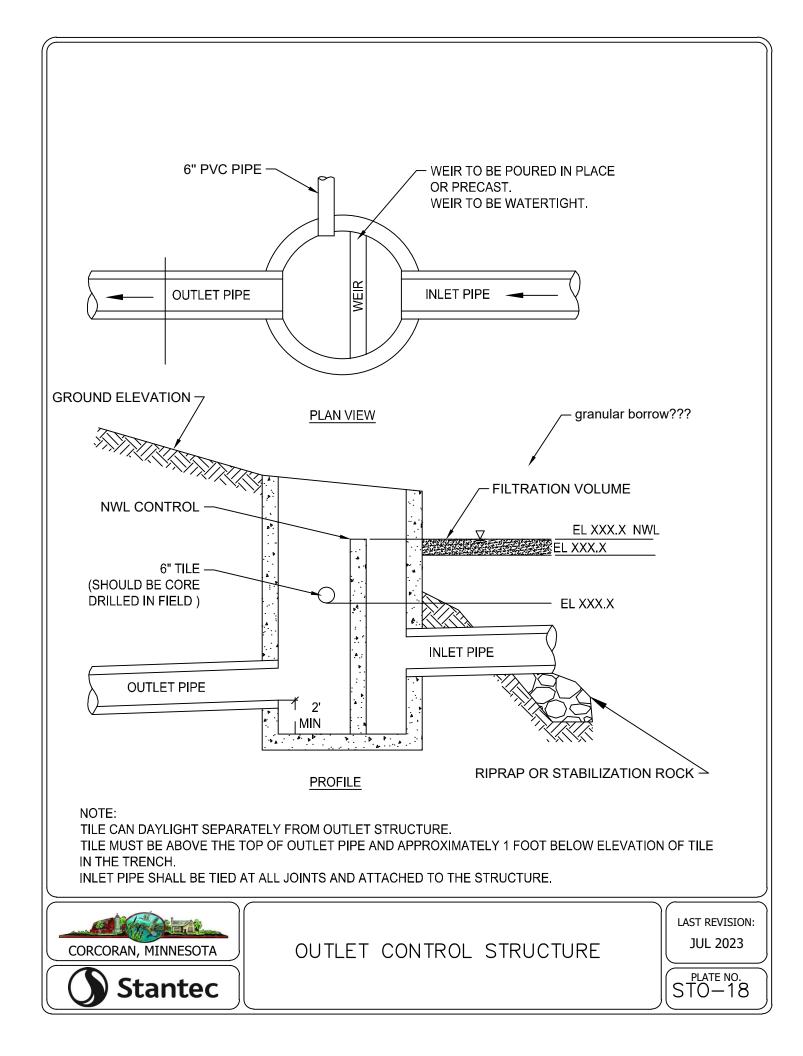


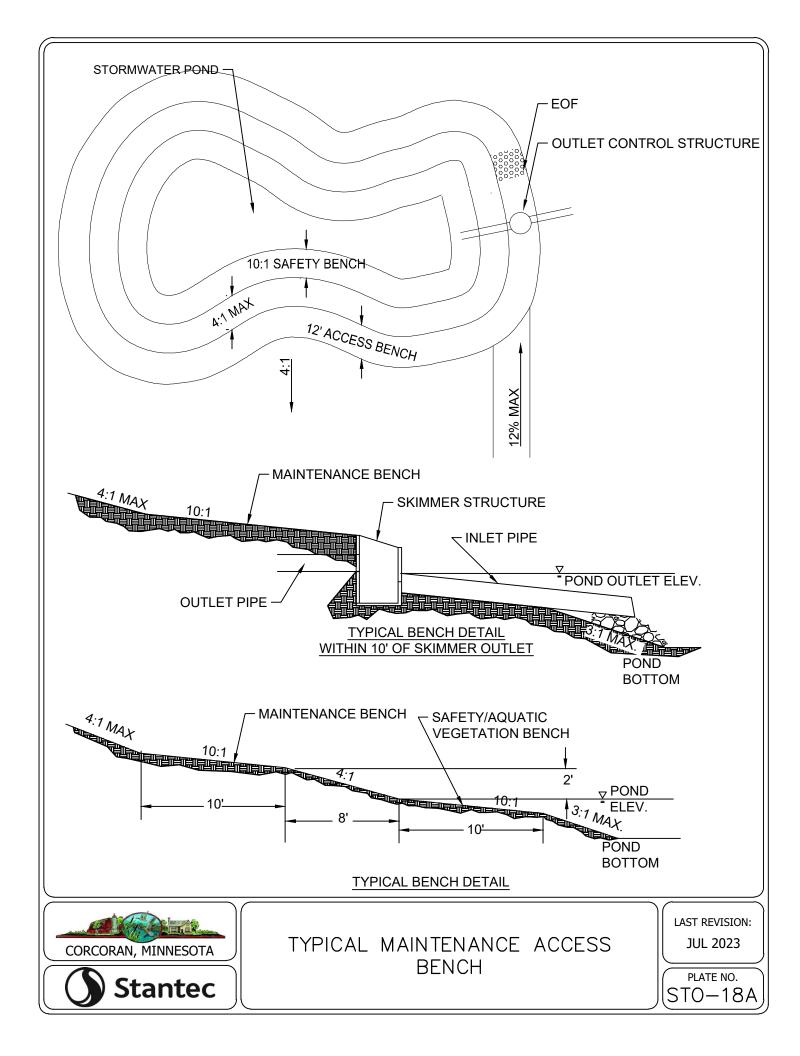


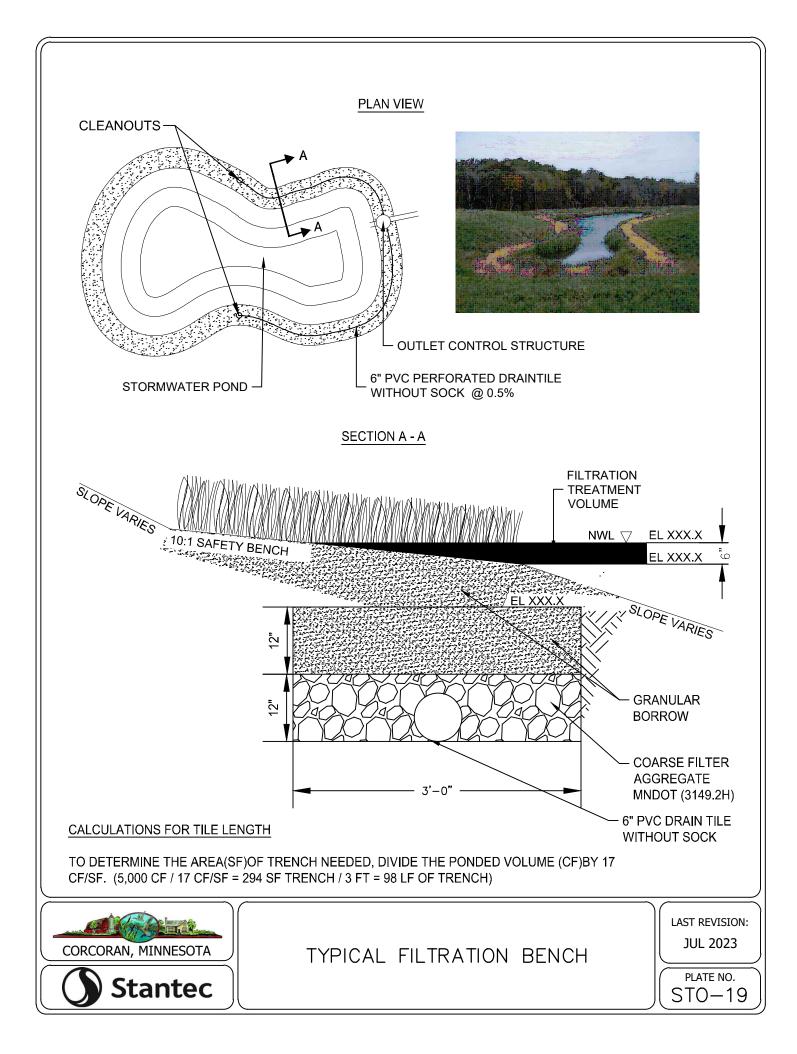


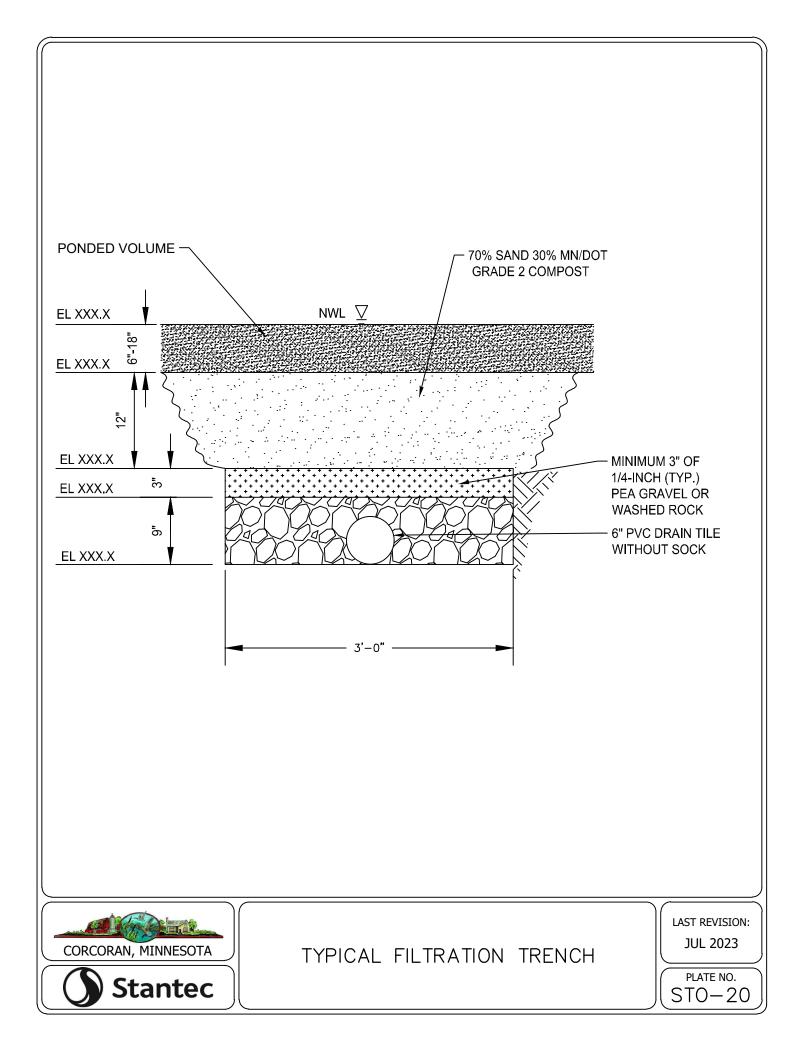


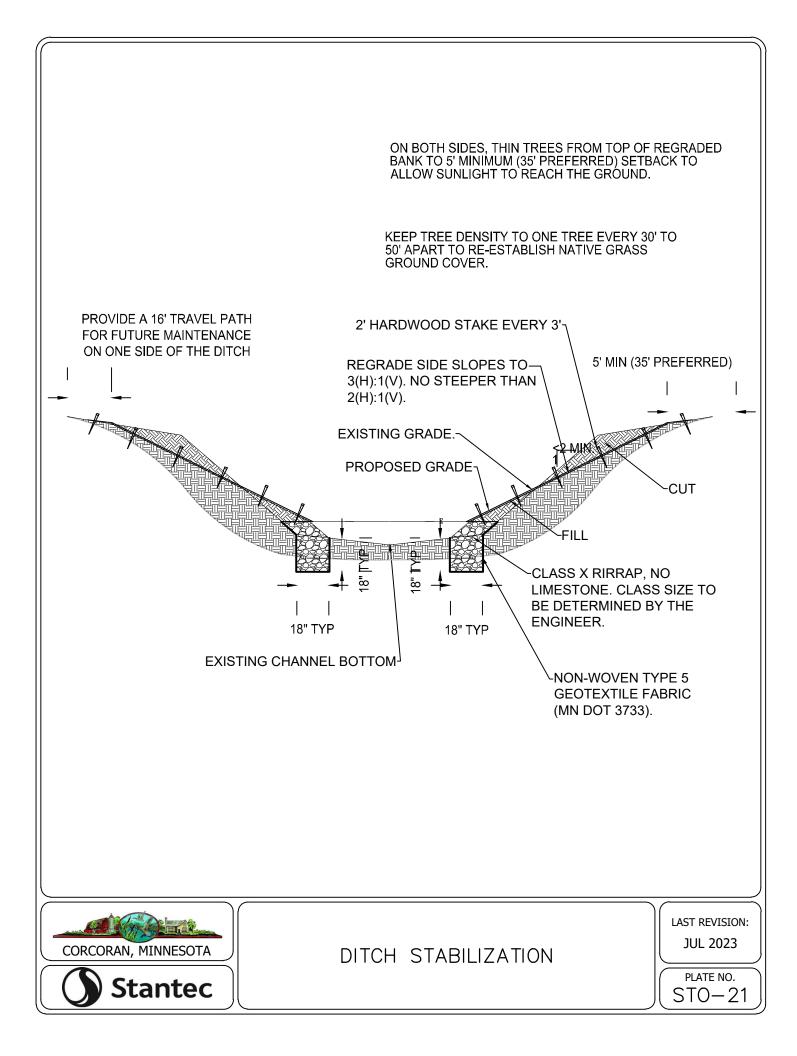


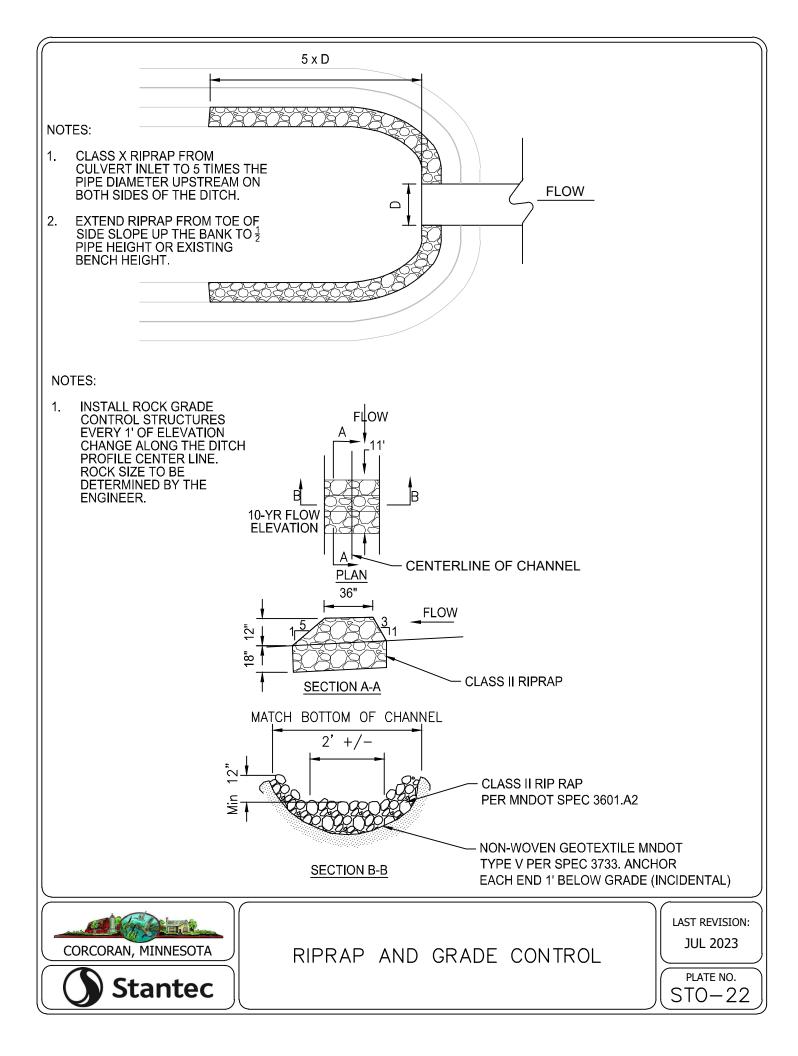


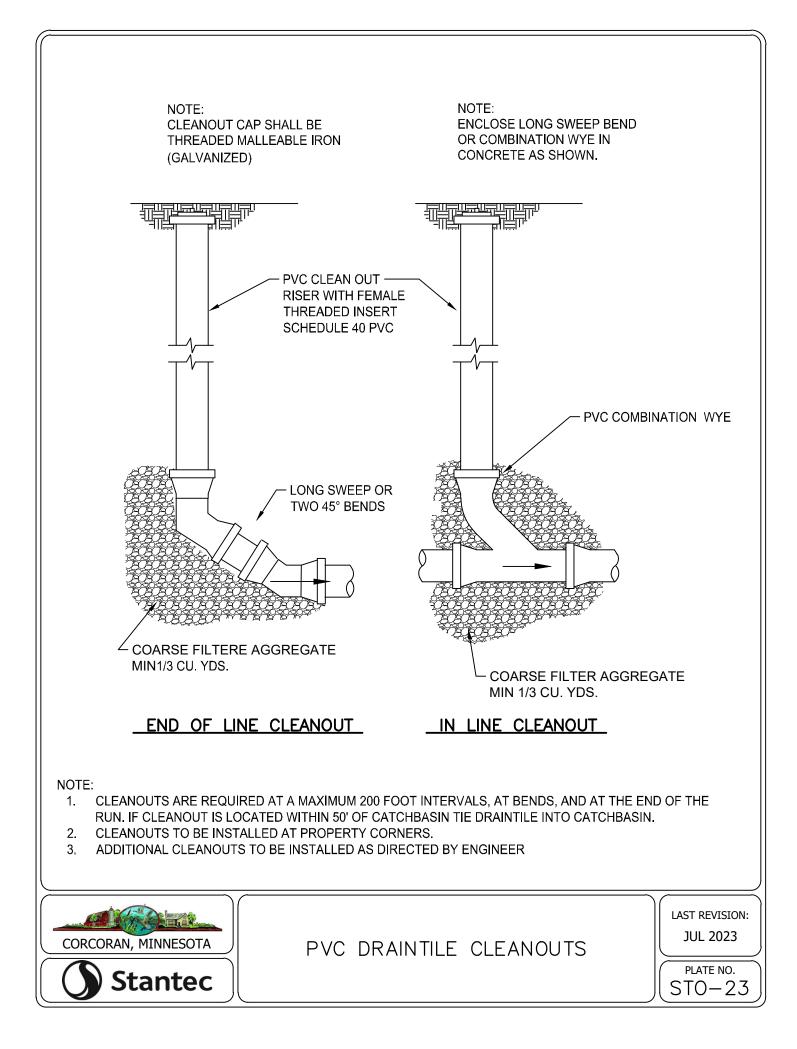


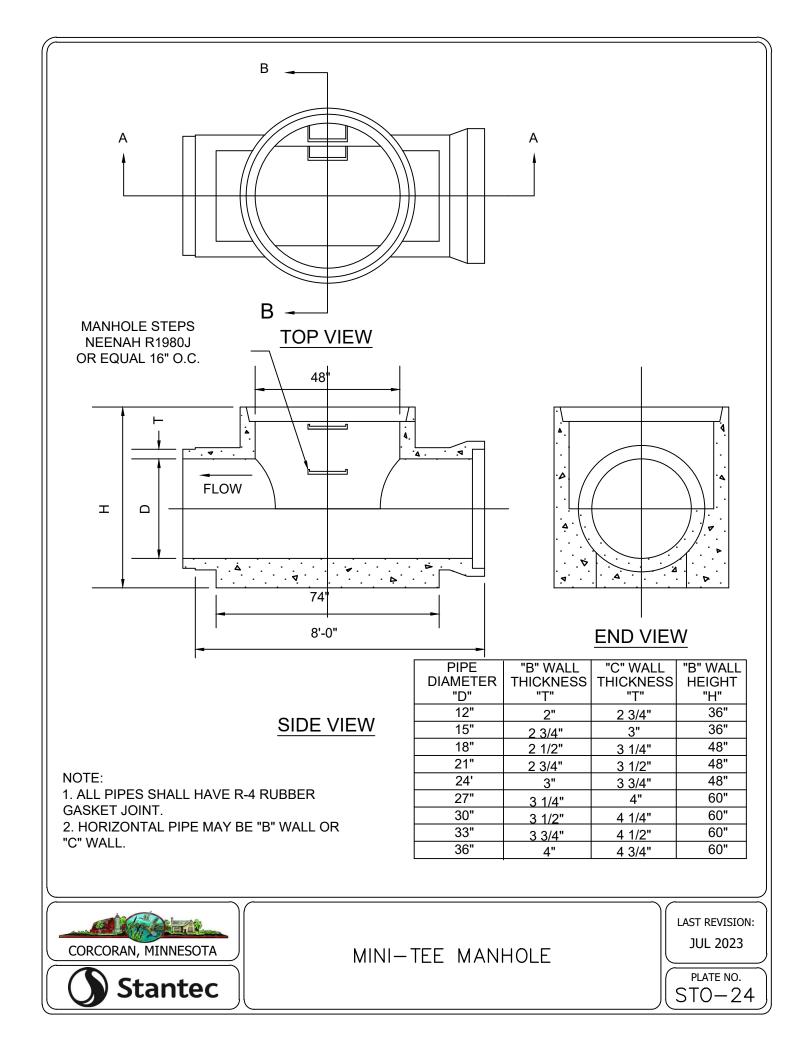


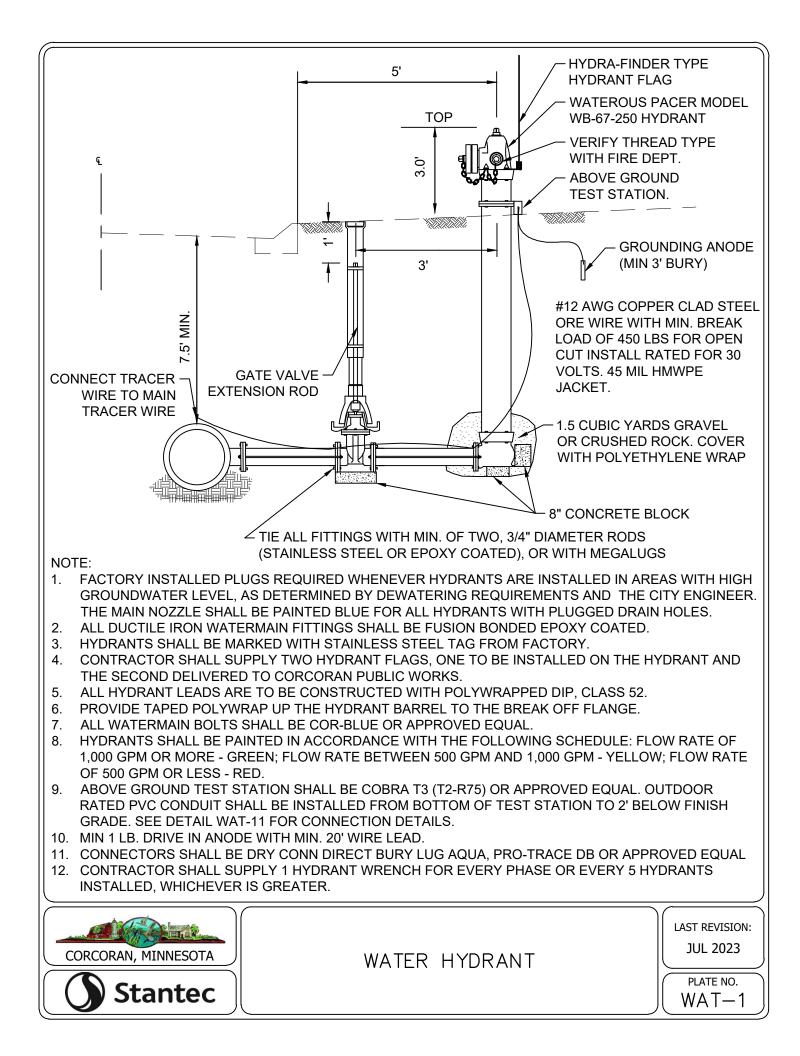


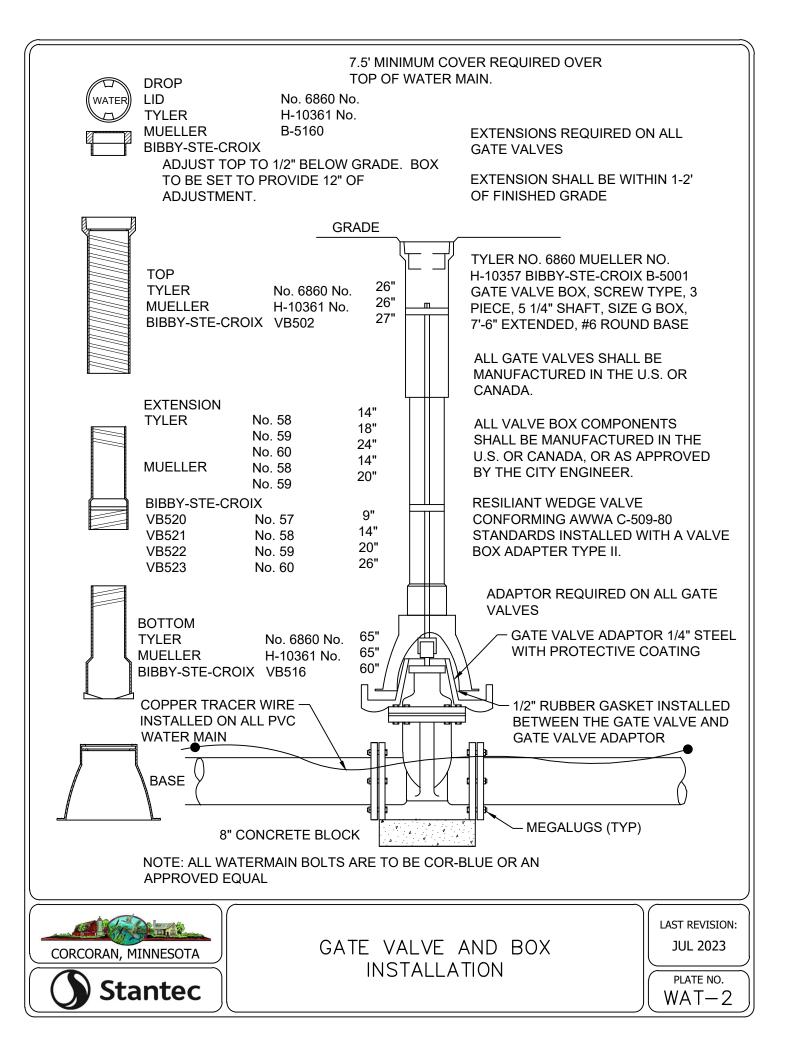


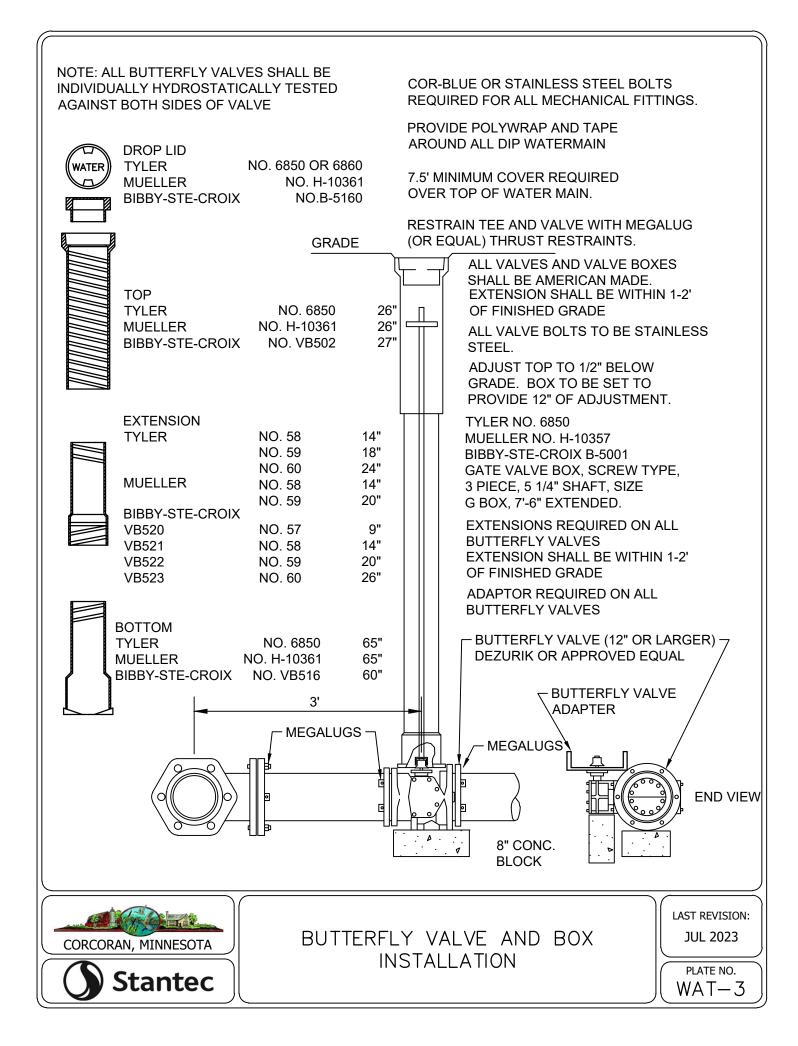


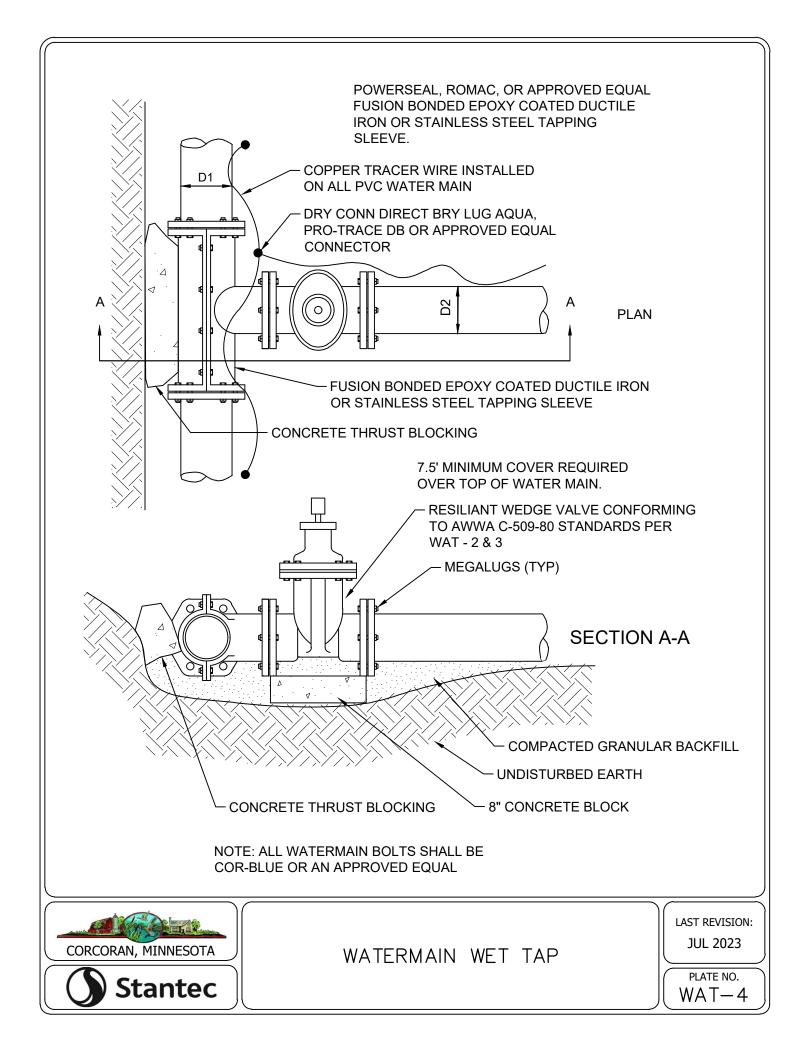












NOTES:

