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OCT 2024

URBAN COLLECTOR STREET SECTION

PLATE NO. STR-06





NOTE:

1. TYPICAL SECTION SHOWN IS THE MINIMUM RESIDENTIAL STREET REQUIREMENT.

SEE SPECIFICATIONS FOR PROJECT SPECIFIC DETAILS.

2. PVC DRAINTILE SHALL BE INSTALLED BEHIND CURB. DRAINTILE TO BE INSTALLED ARE REQUIRED TO ADEQUATELY DRAIN ALL SELECT GRANULAR FILL AREAS.

3. STREET SHALL BE DESIGNED FOR A 30 MPH DESIGN SPEED WITH MINIMUM 0.60% AND MAXIMUM OF 6.00% GRADE.

4. THE CITY RESERVES THE RIGHT TO INCREASE THE STREET SECTION AND ADD DRAINTILE BASED ON SOIL CONDITIONS.

5. CITY ENGINEER TO DETERMINE WIDTHS.

6. WEARING COURSES MAY HAVE A MAXIMUM OF 10% RECYCLED ASPHALT PAVEMENT (RAP). NO RECYCLED ASPHALT SHINGLES (RAS) ALLOWED IN WEARING COURSES.

7. NON-WEARING COURSES MAY HAVE A MAXIMUM OF 20% RECYCLED ASPHALT PAVEMENT (RAP).





PLATE NO. STR-08





























PRIVATE DEVELOPMENT TURNAROUND

PLATE NO. STR-22









STR-26














AST REVISION: OCT 2024

SANITARY SEWER DROP INLET MANHOLE

PLATE NO.













NOTE: ALL BUTTERFLY VALVES SHALL BE INDIVIDUALLY HYDROSTATICALLY TESTED AGAINST BOTH SIDES OF VALVE		COR-BLUE OR STAINLESS STEEL BOLTS REQUIRED FOR ALL MECHANICAL FITTINGS.	
DROP LID TYLER MUELLER BIBBY-STE-CROIX	NO. 6850 OR 6860 NO. H-10361 NO.B-5160 <u>GRADE</u>	PROVIDE POLYWRAP AND TAPE AROUND ALL DIP WATERMAIN AND VALVE BOX. 7.5' MINIMUM COVER REQUIRED OVER TOP OF WATER MAIN. RESTRAIN TEE AND VALVE WITH MEGALUG (OR EQUAL) THRUST RESTRAINTS.	
TOP TYLER MUELLER BIBBY-STE-CROIX	NO. 6850 26' NO. H-10361 26' NO. VB502 27'	ALL VALVES AND VALVE BOXES SHALL BE AMERICAN MADE. EXTENSION SHALL BE WITHIN 1-2' OF FINISHED GRADE ALL VALVE BOLTS TO BE STAINLESS STEEL. ADJUST TOP TO 1/2" BELOW GRADE. BOX TO BE SET TO PROVIDE 12" OF ADJUSTMENT.	
EXTENSION TYLER MUELLER BIBBY-STE-CROIX VB520 VB521 VB522 VB523 BOTTOM TYLER MUELLER BIBBY-STE-CROIX	NO. 58 14" NO. 59 18" NO. 60 24" NO. 58 14" NO. 59 20" NO. 57 9" NO. 58 14" NO. 59 20" NO. 58 14" NO. 59 20" NO. 60 26" NO. 60 26" NO. H-10361 65" NO. H-10361 65" NO. VB516 60" 3'	TYLER NO. 6850 MUELLER NO. H-10357 BIBBY-STE-CROIX B-5001 GATE VALVE BOX, SCREW TYPE, 3 PIECE, 5 1/4" SHAFT, SIZE G BOX, 7'-6" EXTENDED. EXTENSIONS REQUIRED ON ALL BUTTERFLY VALVES EXTENSION SHALL BE WITHIN 1-2' OF FINISHED GRADE ADAPTOR REQUIRED ON ALL BUTTERFLY VALVES BUTTERFLY VALVES BUTTERFLY VALVE (>12") DEZURIK OR APPROVED EQUAL BUTTERFLY VALVE ADAPTER MEGALUGS 8" CONC. BLOCK	
Day tor Live the difference.	BUTTERF	LAST REVISION: OCT 2024 STALLATION PLATE NO. WAT-02A	





























FLARED END SECTION AND TRASH GUARD LAST REVISION: OCT 2024

PLATE NO. STO-08









ENERGY DISSIPATOR AND TRASH GUARD

PLATE NO. STO-11

OCT 2024

LAST REVISION:

NOTE: TIE LAST 3 JOINTS. USE 2 TIE BOLT FASTENERS PER JOINT INTALLED AT 60Ø FROM TOP OR BOTTOM OF PIPE.

SIZE OF PIPE	SIZE OF PLATE	BARS	BOLTS
12" TO 18"	1/4" X 2"	3/4"Ø	2-5/8"Ø
21" TO 48"	1/4" X 3"	1"Ø	3-3/4"Ø

SIDE VIEW



FRONT VIEW



STEEL PLATE - BOLT TO CONCRETE WITH STAINLESS STEEL BOLTS. HOT DIP GALVANIZE AFTER FABRICATION.



"MINI-TEE" MANHOLE

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the difference

LAST REVISION: OCT 2024

















Däuton	PVC DRAINTILE CLEANOUTS	LAST REVISION: OCT 2024
Live the difference.		PLATE NO. STO-18




















PERMITS REQUIRED

- (1) ABANDON SEPTIC TANK -SEE PROCEDURES BELOW
- (2) CONNECTION FROM THE BUILDING TO STUB- LICENSED PIPE LAYER REQUIRED
- (3) NEW INTERNAL PLUMBING LICENSED MASTER PLUMBER REQUIRED
- (4) ABANDON WELL HENNEPIN COUNTY (SEE ATTACHED INFORMATION)



PERMITS REQUIRED

- (1)ABANDON SEPTIC TANK -SEE PROCEDURES BELOW
- 2 CONNECTION FROM THE BUILDING TO STUB- LICENSED PIPE LAYER REQUIRED
- 3 NEW INTERNAL PLUMBING - LICENSED MASTER PLUMBER REOUIRED
- (4)ABANDON WELL - HENNEPIN COUNTY (SEE ATTACHED INFORMATION)



NOTES

- 1. GATE VALVE SHALL NOT BE LOCATED IN DRIVEWAY.
- 2. ALL SYSTEMS WITH NO FUTURE INTENT FOR USE MUST BE ABANDONED. ALL SOLIDS AND LIQUIDS MUST BE DISPOSED OF ACCORDINGLY BY A LICENSED MAINTENANCE BUSINESS. ALL ELECTRICAL DEVICES AND DEVICES CONTAINING MERCURY MUST BE REMOVED AND DISPOSED OF ACCORDING TO APPLICABLE REGULATIONS, ABANDONED TANKS OR ANY OTHER UNDERGROUND CAVITIES MUST BE REMOVED OR REMAIN IN PLACE AND CRUSHED WITH THE REMAINING CAVITY FILLED WITH SOIL OR ROCK MATERIAL.ACCESS FOR FUTURE DISCHARGE TO THE SYSTEM MUST BE PERMANENTLY DENIED.
- 3. SANITARY SEWER SERVICE SIZE SHALL BE BASED ON FLOW USAGE
- 4. WATER SERVICE SIZE SHALL BE BASED ON USAGE/FIRE PROTECTION.
- 5. WATER SERVICE SHALL BE INSTALLED WITH TRACER WIRE.
- 6. COMPLY WITH MINNESOTA DEPARTMENT OF HEALTH SEPARATION REQUIREMENTS.

NON-RESIDENTIAL SEWER AND WATER SERVICE CONNECTIONS FROM STUB TO BUILDING

LAST REVISION: OCT 2024

PLATE NO. **SER-06**
































































SHRUB PLANTING DETAIL

PLATE NO. **GEN-07**



LAST REVISION: OCT 2024



DECIDUOUS TREE PLANTING DETAIL

PLATE NO. **GEN-08**



- 10. FILL REMAINING SPACE WITH WATER AND WAIT FOR IT TO SETTLE.
- 11. FINISH FILLING HOLE WITH SOIL AND MAKE A SOIL DIKE AROUND ROOT BALL.
- 12. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES PRIOR TO DIGGING AND PLANT INSTALLATION.



CONIFEROUS TREE PLANTING DETAIL

LAST REVISION: OCT 2024

PLATE NO.





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	13.20	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	19.00	4	10.5		
24	22.480	21.36	4	12		
27	25.327	24.06	4	13.5		

SDR 26 (16' < DEPTH < 25')					
PIPE SIZE	DEFLECTION TEST		AIR TEST		
(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	12.90	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 (DEPTH > 25')				
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	10.70	4	6
14	13.050	12.40	4	7
16	14.831	14.09	4	8
18	16.609	15.78	4	9
20	18.386	17.47	4	10
24	21.940	20.84	4	12

NOTE: SEE GEN-13 FOR SANITARY SEWER TESTING REQUIREMENTS



DEFLECTION TEST PIPE MATERIAL AND MANDREL SIZE LAST REVISION: OCT 2024

PLATE NO.

GENERAL TESTING NOTES:

- 1. PIPE MATERIAL AND TESTING REQUIREMENTS MAY CHANGE DEPENDING ON SOIL CONDITIONS AND OTHER FACTORS.
- 2. 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 OR BUILDING PERMIT.

SANITARY SEWER TESTING NOTES:

- 1. A MINIMUM WAITING TIME PERIOD OF 30 DAYS AFTER INSTALLATION IS REQUIRED BEFORE DEFLECTION TEST MAY BE PERFORMED. (SEE GEN-11)
- 2. TRACER WIRE TEST TO BE PERFORMED ON ALL SANITARY SEWER AND SANITARY SEWER SERVICES BY METROTECH OR APPROVED EQUAL.
- 3. AIR TEST WILL BE PERFORMED AT A PRESSURE OF 4.0 PSIG GREATER THAN THE AVERAGE BACKPRESSURE OF ANY GROUND WATER PRESENT.
- *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). (SEE GEN-11)
- 7. 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.
- 8. TELEVISING SHALL BE PERFORMED ON ALL NEWLY INSTALLED GRAVITY SEWER FOLLOWING ALL OTHER SUCCESSFUL TESTING.
- 9. SANITARY SEWER TO BE JETTED PRIOR TO TELEVISING.
- 6. ALL PROXIMATE STORM SEWER MUST BE INSTALLED BEFORE WATERMAIN TESTING BEGINS.

FORCEMAIN TESTING NOTES:

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

WATERMAIN TESTING NOTES:

1. WATERMAIN TESTING TO INCLUDE ALL CURB STOPS AND HYDRANT LEADS.

- 2. HYDROSTATIC PRESSURE TEST PROCEDURE AS FOLLOWS:
- 2.1. PUMP SYSTEM TO MINIMUM 150 PSI.
- 2.2. THE WATERMAIN SYSTEM WILL BE ACCEPTED AS PASSING IF THE PRESSURE HAS NO DROP IN PRESSURE IN 2 HOURS.
- 2.3. ALL BUTTERFLY VALVES TO BE INDIVIDUALLY HYDROSTATICALLY TESTED AGAINST BOTH SIDES OF VALVE.
- 3. BACTERIA TEST (MINIMUM 2 SETS)
- 3.1. 1 TEST FOR EVERY 1200 LF
- 3.2. 1ST SET OF TESTS 24 HOURS AFTER INITIAL FLUSHING.
- 3.3. SECOND SET OF TESTS TO BE TAKEN AFTER PASSING RESULTS FROM FIRST TEST, MINIMUM 24 HOURS AFTER FIRST TEST.
- 4. TRACER WIRE TEST TO BE PERFORMED BY A METROTECH OR APPROVED EQUAL. TRACER ENTIRE LINE/ALL SERVICES TO CURB STOPS.
- 5. WATERMAIN TESTING TO MEET MINNESOTA DEPARTMENT OF HEALTH STANDARDS.
- 6. ALL PROXIMATE STORM SEWER MUST BE INSTALLED BEFORE WATERMAIN TESTING BEGINS.

STORM SEWER TESTING NOTES:

- 1. TELEVISING SHALL BE PERFORMED ON ALL NEWLY INSTALLED STORM SEWER.
- 2. TELEVISING SHALL BE PERFORMED ON ALL DRAINTILE AFTER WEAR COURE AND AFTER PRIVATE UTILITIES ARE INSTALLED.
- 3. TELEVISING SHALL BE PERFORMED ON ALL REAR YARD DRAINTILE AFTER RESTORATION IS COMPLETE.
- 4. ALL TELEVISING TAPES TO BE EMAILED TO CITY REPRESENTATIVE.



TESTING REQUIREMENTS

LAST REVISION: OCT 2024

PLATE NO.

RESIDENTIAL BUILDING PERMIT GRADING REQUIREMENTS LAND SURVEYS/CERTIFICATES OF SURVEY MUST BE PREPARED BY A MINNESOTA LICENSED LAND SURVEYOR. IT IS RECOMMENDED THAT LAND SURVEYS MEET THE STANDARDS OF THE AMERICAN LAND TITLE ASSOCIATION (ALTA) AND AMERICAN CONGRESS OF SURVEYING AND MAPPING (ASCM). COMPLETE AND ACCURATE INFORMATION WILL EXPEDITE THE PLAN REVIEW PROCESS. 1. <u>CERTIFICATE OF SURVEY</u> A CERTIFICATE OF SURVEY IS REQUIRED TO OBTAIN A BUILDING PERMIT FOR NEW CONSTRUCTION AND MAY BE REQUIRED FOR BUILDING OR ACCESSORY STRUCTURE ADDITIONS OR SIGNIFICANT GRADING CHANGES WHEN A LAND SURVEY IS NOT IN CITY RECORDS. GRADING AS-BUILT 2 A GRADING AS-BUILT IS REQUIRED TO RELEASE ESCROW HELD ON THE LOT DURING CONSTRUCTION. FOR NEW CONSTRUCTION AND WHEN SUBMITTED SHOWING CONFORMANCE WITH REQUIRED BUILDING SETBACKS, LOCATIONS, ELEVATIONS, AND GRADING. PROPOSED SURVEYS MUST SHOW CERTIFICATION *LAND SURVEYOR CERTIFICATION *SCALE AND NORTH ARROW *PREDARATION DATE AND R *LEGAL DESCRIPTION *PREPARATION DATE AND REVISION DATES FEATURES *FOUNDATION TYPE (FULL BASEMENT, WALKOUT, LOOKOUT, ETC.) *LOT DIMENSIONS *BUILDING SETBACKS *PROPERTY AND EASEMENT LINES *ADJACENT SIDEWALKS, CURBS, AND STREETS *DELINEATED WETLAND EDGE *EDGE OF WETLAND BUFFER WITH BUFFER SIGN LOCATIONS *DRIVEWAYS AND PATHWAYS *TREE LINES/EDGE OF CANOPY *WELL, SEPTIC SYSTEMS, TANKS *WELL, SEPTIC STSTEMS, TANKS *LOCATIONS AND DIMENSIONS OF EXISTING AND PROPOSED STRUCTURES *WETLANDS, PONDS, LAKES, STREAMS, DRAINAGE SWALES, ETC. *SETBACKS TO OHW/NHW CONTOUR, WETLANDS, PONDS, LAKES, RIVERS *WATERMAINS, SANITARY AND STORM SEWER, DRAINTILE AND DRAINTILE CLEANOUTS, CATCHBASINS, AND MANHOLES *DRAINAGE OUTLETS, OUTLET CONTROL STRUCTURES, AND EMERGENCY OVERFLOWS *VISIBLE AND UNDERGROUND COMPONENTS OF PUBLIC AND PRIVATE UTILITIES INCLUDING WATER AND SEWER STUBS AND SIZES ELEVATIONS *LOT CORNER ELEVATIONS, EXISTING LOT ELEVATIONS, AND PROPOSED ELEVATIONS AND CONTOURS PER APPROVED GRADING PLAN *SPOT ELEVATIONS AT THE MINIMUM REQUIREMENTS SHOWING MINIMUM 2% DRAINAGE: LOWEST GROUND ELEVATION ADJACENT TO THE BUILDING, LOT CORNERS, HIGH POINT DRAINAGE BREAKS, WHERE DRAINAGE SWALES INTERSECT LOT LINES, AND WHERE PONDING EASEMENTS INTERSECT LOT LINES *CENTER OF CITY STREET AND TOP OF CURB ELEVATIONS *PROPOSED DRIVE/ROAD GRADE IN % SLOPE (MINIMUM 2%, NOT TO EXCEED 10%) *LOWEST FLOOR, LOWEST OPENING, TOP OF FOUNDATION, AND GARAGE FLOOR ELEVATIONS *DRAINAGE DIRECTION ARROWS ON ALL SIDES AND PROPOSED DRAINAGE PATHS *DRAINAGE OUTLETS, OUTLET CONTROL STRUCTURES, AND EMERGENCY OVERFLOWS *NORMAL WATER LEVEL AND HIGH WATER LEVEL ELEVATIONS OF ADJOINING LAKES, WETLANDS, PONDS, AND STREAMS *UTILITY PEDESTALS (GRADING AS-BUILT ONLY) *TREES (GRADING AS-BUILT ONLY) ELEVATIONS MUST BE SHOWN AS SEA LEVEL MEASUREMENTS. FOR AS-BUILT CONSTRUCTION AND GRADING SURVEYS, ELEVATIONS MUST BE CROSS-REFERENCED WITH APPROVED ELEVATIONS. MINIMUM REQUIRED BUILDING ELEVATIONS BUILDING OPENINGS AND FLOOR ELEVATIONS ALL OPENINGS AND FLOOR ELEVATIONS MUST BE CONSTRUCTED AT LEAST TWO (2) FEET ABOVE 100-YEAR FLOOR ELEVATION AND TWO (2) FEET ABOVE HIGHEST ANTICIPATED WATER LEVEL (HWL) ELEVATION AS ESTABLISHED BY THE APPROVED PLANS AND THE CITY ENGINEER. BUILDING AND GARAGE OPENINGS ALL LOW ADJACENT GRADE AND GARAGE FLOOR ELEVATIONS MUST BE AT LEAST ONE (1) FOOT ABOVE ALL EMERGENCY OVERFLOWS. THIS INFORMATIONAL DOCUMENT MAY NOT COMPREHENSIVELY ADDRESS ALL LAWS RELATED TO THE SUBJECT ADDRESSED. IT IS PROVIDED TO SERVE ONLY AS A HELPFUL GUIDE. SITE PREPARATION OR PERMITTED WORK IS NOT ALLOWED UNTIL PERMITS HAVE BEEN ISSUED BY THE CITY OF DAYTON. LAST REVISION: OCT 2024 CERTIFICATE OF SURVEY AND GRADING AS-BUILT REQUIREMENTS PLATE NO. GEN-14