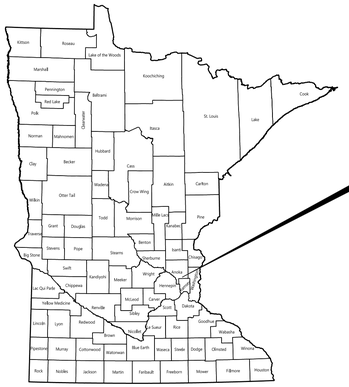
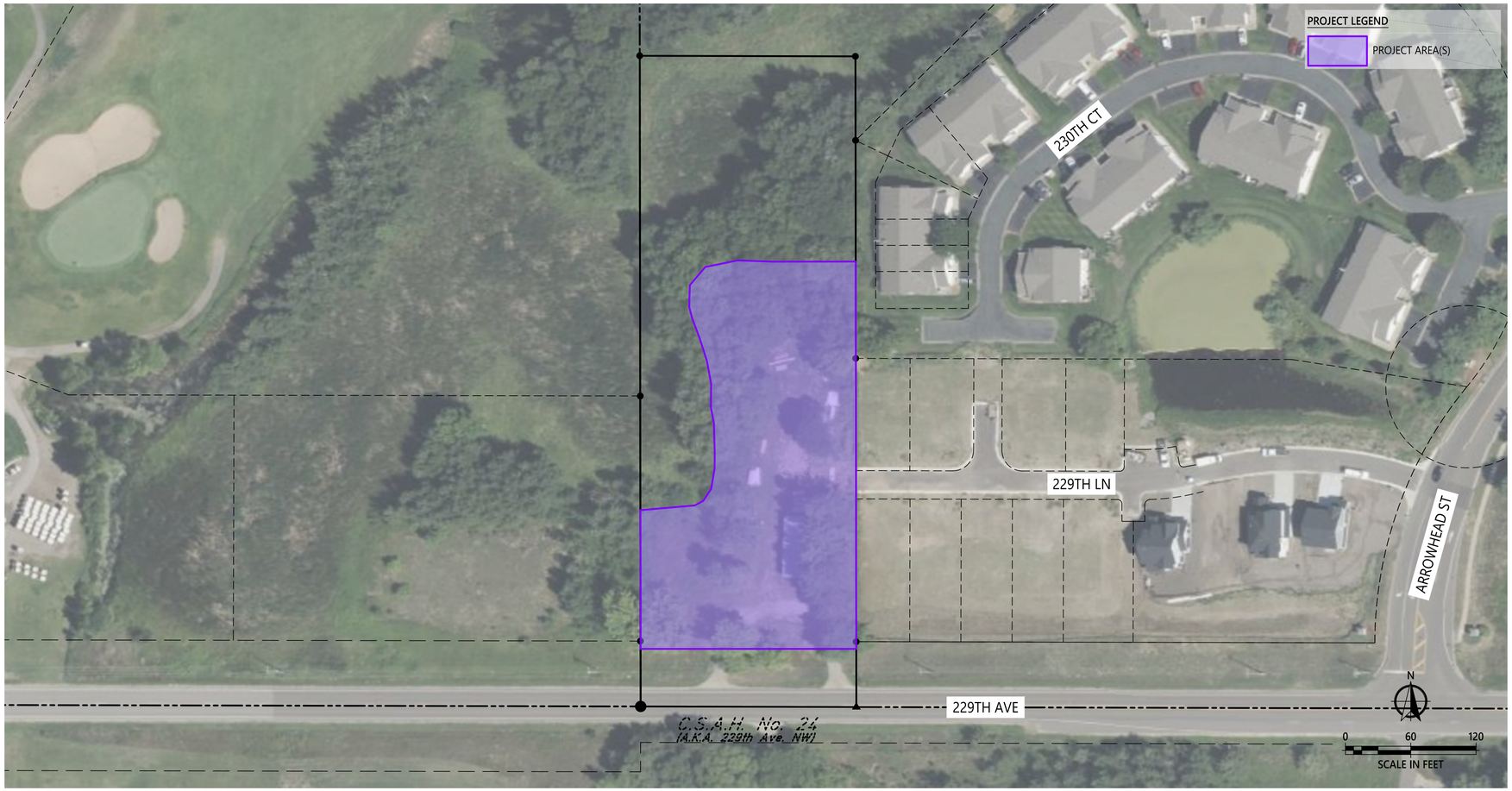
TURTLE PONDS 6TH ADDITION

ST. FRANCIS, MN
OCTOBER 2026



PROJECT LOCATION

CITY OF ST FRANCIS, ANOKA COUNTY, MN



MAP SOURCE & YEAR: AUTOCAD GEOLOCATION MAPPING, 2026
MAP DESCRIPTION: PARTIAL MAP OF ST FRANCIS, ANOKA COUNTY, MINNESOTA

PROJECT INFORMATION:

OWNER - HOME IMPROVEMENT SHOP INC.
NAME: WILLIAM CARROLL
ADDRESS: 6021 167TH AVE NW, RAMSEY, MN 55303
BUILDER/ARCHITECT
NAME: TBD
ADDRESS: _____
ENGINEER - WIDSETH
NAME: CHRISTOPHER J. DAHN
ADDRESS: 13076 FIRST ST, BECKER, MN 55308

SHEET INDEX TABLE

SHEET NUMBERS	SHEET TITLE
C1.01	TITLE SHEET
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C2.01	DETAILS SHEET
C2.02	DETAILS SHEET
C2.03	DETAILS SHEET
C2.04	DETAILS SHEET
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C3.01	DEMOLITION PLAN
C4.01	SITE PLAN
C5.01	UTILITY PLAN
C6.01	SWPPP NARRATIVE
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C8.01	PLAN & PROFILE
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C9.01	EROSION CONTROL PLAN
C10.01	WETLAND MANAGEMENT
L1.1	LANDSCAPE PLAN
THIS PLAN CONTAINS 17 SHEETS	

THIS PLAN SET CONTAINS COLOR GRAPHICS. BLACK AND WHITE PRINTS ARE NOT OFFICIAL SIGNED DOCUMENTS.

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WIDSETH
ARCHITECTS ▪ ENGINEERS ▪ SCIENTISTS ▪ SURVEYORS

DRAWN BY: PMP/DML
CHECKED BY: CJD

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CHRISTOPHER J. DAHN LIC. NO.: 58628 DATE:

DATE	REV#	REVISIONS DESCRIPTION

TURTLE PONDS 6TH ADDITION
TITLE SHEET

C1.01
PROJECT #: 2026-10089

SURVEY MONUMENTS - FOUND

- FOUND CAST IRON MONUMENT
- FOUND CONTROL POINT
- FOUND IRON PIPE
- FOUND JUDICIAL LAND MONUMENT
- FOUND LATH

SURVEY MONUMENTS - STAKED

- BENCHMARK
- STAKED CAST IRON MONUMENT
- STAKED CONTROL POINT
- STAKED IRON PIPE
- STAKED JUDICIAL LAND MONUMENT

PROPERTY LINEWORK

- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- RIGHT-OF-WAY LINE
- EASEMENT LINE
- DESCRIPTION LINE
- DEEDED LOT LINE
- PLATTED LOT LINE
- BOUNDARY LINE
- SUBDIVISION LINE
- SETBACK LINE

TOPOGRAPHIC INFORMATION - EXISTING

- 1230 MAJOR CONTOURS
- 1234 MINOR CONTOURS
- 1234.56 SPOT ELEVATION

TOPOGRAPHIC INFORMATION - PROPOSED

- 1230 MAJOR CONTOURS (WITH LABEL)
- 1234 MINOR CONTOURS (WITH LABEL)
- 1234.56 SPOT ELEVATION
- +-1.23% SLOPE - PERCENT
- 1:2 SLOPE - RISE : RUN
- TBC: 1234.56 / FLW: 1234.06 SPOT ELEVATIONS @ CURB (TBC: TOP BACK CURB / FLW: CURB FLOWLINE)
- +1.23 / -3.21 SPOT ELEVATIONS, CUT/FILL (GREEN: FILL DEPTH / RED: CUT DEPTH)

VEGETATION SYMBOLS - EXISTING

- SHRUB
- STUMP
- TREE - CONIFEROUS
- TREE - DECIDUOUS
- WETLAND

VEGETATION LINEWORK - EXISTING

- EDGE OF WOODS
- EDGE OF WETLANDS

VEGETATION SYMBOLS - PROPOSED

- SHRUB
- TREE - CONIFER
- TREE - DECIDUOUS

VEGETATION LINEWORK - PROPOSED

- EDGE OF WOODS

ROADWAY/PAVEMENT LINEWORK - EXISTING

- BITUMINOUS SURFACE
- CONCRETE SURFACE
- CURB & GUTTER
- GRAVEL SURFACE
- ROADWAY/DRIVE/TRAIL CENTERLINE

ROADWAY/PAVEMENT LINEWORK - PROPOSED

- BITUMINOUS SURFACE
- CONCRETE SURFACE
- CURB & GUTTER
- GRAVEL SURFACE
- ROADWAY/DRIVE/TRAIL CENTERLINE

SITE SYMBOLS - EXISTING

- FENCE POST
- FLAG POLE
- GUARD POST (BOLLARD)
- GUY POLE
- GUY WIRE ANCHOR
- ACCESSIBLE PARKING MARKING
- MAILBOX
- SIGN - DOUBLE POST
- SIGN - SINGLE
- SIGN - FIRE #

SITE LINEWORK - EXISTING

- BUILDING
- BARB WIRE FENCE
- CHAINLINK FENCE
- WOOD FENCE
- RAILROAD
- RETAINING WALL

SITE SYMBOLS - PROPOSED

- FENCE POST
- FLAG POLE
- GUARD POST (BOLLARD)
- GUY POLE
- GUY WIRE ANCHOR
- MAILBOX
- SIGN - DOUBLE POST
- SIGN - FIRE #
- SIGN - SINGLE

SITE LINEWORK - PROPOSED

- BUILDING
- FENCE - BARB WIRE
- FENCE - CHAINLINK
- FENCE - WOOD
- RETAINING WALL

COMMUNICATION/TELECOM UTILITY SYMBOLS - EXISTING

- TELECOM HANDHOLE
- TELECOM MANHOLE
- TELECOM PEDESTAL
- TELECOM POLE
- TV HANDHOLE
- TV PEDESTAL
- SATELLITE DISH

COMMUNICATION/TELECOM UTILITY LINEWORK - EXISTING

- FOC UNDERGROUND FIBER OPTIC LINE
- OHT OVERHEAD TELEPHONE LINE
- UGT UNDERGROUND TELEPHONE LINE
- OHC OVERHEAD TV LINE
- UGC UNDERGROUND TV LINE

COMMUNICATION/TELECOM UTILITY SYMBOLS - PROPOSED

- TELECOM HANDHOLE
- TELECOM MANHOLE
- TELECOM PEDESTAL
- TELECOM POLE
- TV HANDHOLE
- TV PEDESTAL
- SATELLITE DISH

COMMUNICATION/TELECOM UTILITY LINEWORK - PROPOSED

- FOC UNDERGROUND FIBER OPTIC LINE
- UGT UNDERGROUND TELEPHONE LINE
- OHC OVERHEAD TV LINE
- UGC UNDERGROUND TV LINE

ELECTRICAL UTILITY SYMBOLS - EXISTING

- AC UNIT
- GENERATOR
- GROUND LIGHT (FLOODLIGHT)
- ELECTRIC HANDHOLE
- LIGHT POLE
- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRIC PEDESTAL
- ELECTRIC POLE
- TRAFFIC SIGNAL
- TRANSFORMER
- YARD LIGHT

ELECTRICAL UTILITY LINEWORK - EXISTING

- OHE OVERHEAD ELECTRIC LINE
- UGE UNDERGROUND ELECTRIC LINE

ELECTRICAL UTILITY SYMBOLS - PROPOSED

- AC UNIT
- GENERATOR
- GROUND LIGHT (FLOODLIGHT)
- ELECTRIC HANDHOLE
- LIGHT POLE
- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRIC PEDESTAL
- ELECTRIC POLE
- TRAFFIC SIGNAL
- TRANSFORMER
- YARD LIGHT

ELECTRICAL UTILITY LINEWORK - PROPOSED

- OHE OVERHEAD ELECTRIC LINE
- UGE UNDERGROUND ELECTRIC LINE

NATURAL GAS UTILITY SYMBOLS - EXISTING

- NATURAL GAS METER
- NATURAL GAS VALVE
- PROPANE TANK

NATURAL GAS UTILITY LINEWORK - EXISTING

- GAS NATURAL GAS LINE

NATURAL GAS UTILITY SYMBOLS - PROPOSED

- NATURAL GAS METER
- NATURAL GAS VALVE
- PROPANE TANK

NATURAL GAS UTILITY LINEWORK - PROPOSED

- GAS NATURAL GAS LINE

SANITARY SEWER SYMBOLS - EXISTING

- SANITARY AIR RELEASE MANHOLE
- SANITARY CLEANOUT
- LIFT STATION WET WELL
- LIFT STATION VALVE VAULT
- SANITARY MANHOLE
- SANITARY VALVE (FORCEMAIN)

SANITARY SEWER LINEWORK - EXISTING

- FM SANITARY FORCE MAIN
- SANITARY GRAVITY MAIN
- SS SANITARY SERVICE LINE

SANITARY SEWER SYMBOLS - PROPOSED

- SANITARY AIR RELEASE MANHOLE
- SANITARY CLEANOUT
- LIFT STATION WET WELL
- LIFT STATION VALVE VAULT
- SANITARY MANHOLE
- SANITARY VALVE (FORCEMAIN)

SANITARY SEWER LINEWORK - PROPOSED

- FM SANITARY FORCE MAIN
- SANITARY GRAVITY MAIN
- SS SANITARY SERVICE LINE

STORM SEWER SYMBOLS - EXISTING

- STORM SEWER CATCH BASIN
- STORM SEWER CLEANOUT
- CULVERT APRON
- STORM SEWER INLET STRUCTURE
- STORM SEWER MANHOLE

STORM SEWER LINEWORK - EXISTING

- STORM SEWER GRAVITY MAIN
- DT STORM SEWER DRAINTILE

STORM SEWER SYMBOLS - PROPOSED

- STORM SEWER CATCH BASIN
- STORM SEWER CLEANOUT
- STORM SEWER INLET STRUCTURE
- STORM SEWER MANHOLE

STORM SEWER LINEWORK - PROPOSED

- STORM SEWER GRAVITY MAIN
- DT STORM SEWER DRAINTILE

WATER SYMBOLS - EXISTING

- CURB STOP
- WATER HANDHOLE
- FIRE HYDRANT
- YARD HYDRANT
- WATER MANHOLE
- WATER METER
- WATER MAIN VALVE
- WATER WELL

WATER LINEWORK - EXISTING

- WATER MAIN LINE
- WS WATER SERVICE LINE

WATER SYMBOLS - PROPOSED

- CURB STOP
- HANDHOLE
- HYDRANT
- YARD HYDRANT
- MANHOLE
- WATER METER
- WATER MAIN VALVE
- WATER WELL

WATER LINEWORK - PROPOSED

- WATER MAIN PIPE
- WS WATER SERVICE PIPE

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CHRISTOPHER J. DAHN LIC. NO.: 58628 DATE:

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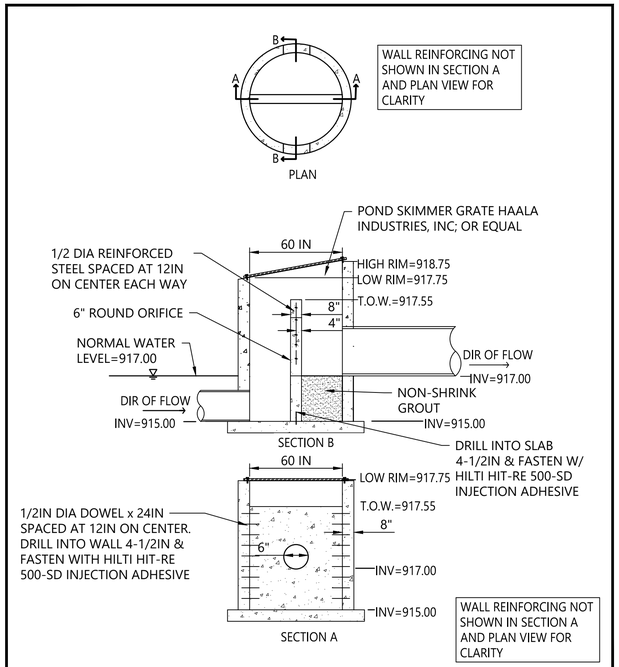
TURTLE PONDS 6TH ADDITION

LEGEND SHEET

C1.02

PROJECT #: 2026-10089

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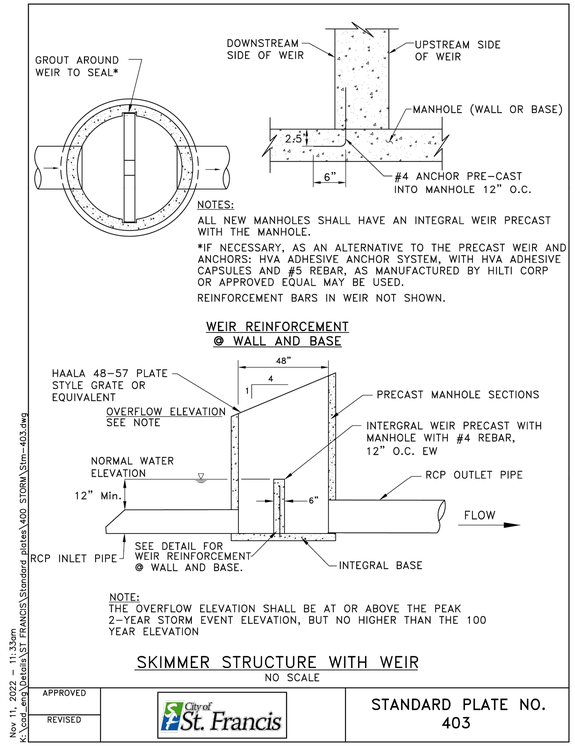


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OUTLET CONTROL STRUCTURE 2

DATE ISSUED: APRIL 2026

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SKIMMER STRUCTURE WITH WEIR

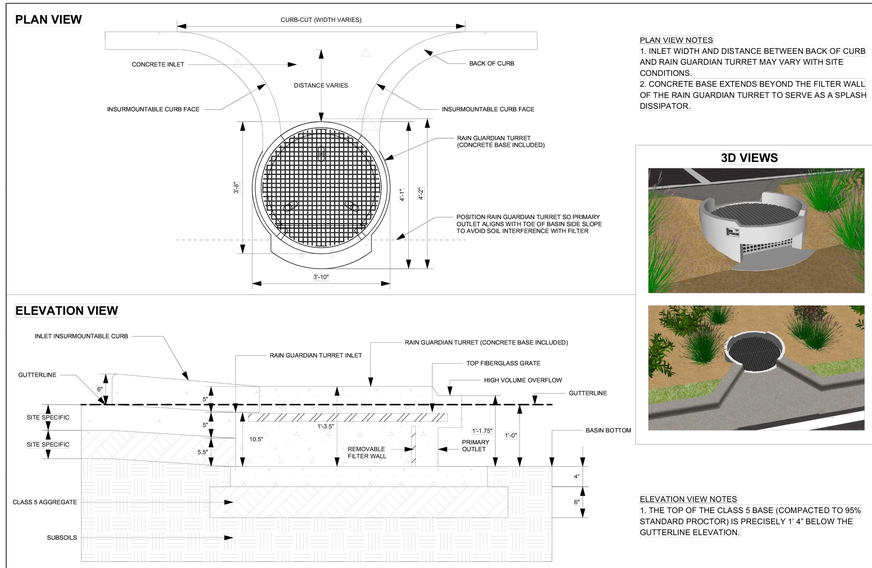
NO SCALE

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REVISED

City of St. Francis

STANDARD PLATE NO. 403



PLAN VIEW NOTES

1. INLET WIDTH AND DISTANCE BETWEEN BACK OF CURB AND RAIN GUARDIAN TURRET MAY VARY WITH SITE CONDITIONS.
2. CONCRETE BASE EXTENDS BEYOND THE FILTER WALL OF THE RAIN GUARDIAN TURRET TO SERVE AS A SPLASH DISSIPATOR.

3D VIEWS

ELEVATION VIEW NOTES

1. THE TOP OF THE CLASS 5 BASE (COMPACTED TO 95% STANDARD PROCTOR) IS PRECISELY 1' 4" BELOW THE GUTTERLINE ELEVATION.

SPECIFICATIONS

1. STEEL REINFORCED, COLD JOINT SECURED MONOLITHIC CONCRETE STRUCTURE (1,030 LBS). CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS. CONCRETE AIR ENTRAINED (5% TO 8.5% BY VOLUME). MANUFACTURED AND DESIGNED TO ASTM C858.

2. THREE-POINT PICK USING RECESSED LIFTING POCKETS WITH A STANDARD HOOK.

3. FIBERGLASS TOP GRATE (32 LBS, 1-1/2" THICK) - 1,760 LB CONCENTRATED LOAD OR 409 LB/SQ-FT UNIFORM LOAD.

INSTALLATION NOTES

1. INSTALL THE CLASS 5 BASE (COMPACTED TO 95% STANDARD PROCTOR). THE DISTANCE FROM THE BACK OF THE CURB MAY VARY BASED ON SITE CONDITIONS, BUT CONSIDERATIONS SHOULD INCLUDE SLOPE OF THE INLET AND BASIN SIDE SLOPES ADJACENT TO THE RAIN GUARDIAN TURRET. POSITION RAIN GUARDIAN TURRET SO PRIMARY OUTLET ALIGNS WITH TOE OF BASIN SIDE SLOPE TO AVOID SOIL INTERFERENCE WITH REMOVABLE FILTER WALL. EXCAVATE 1' 10" BELOW THE GUTTERLINE ELEVATION (I.E. THE BIORETENTION OVERFLOW ELEVATION) TO ACCOMMODATE THE 1' PONDING DEPTH, 6" CLASS 5 AGGREGATE, AND 4" RAIN GUARDIAN TURRET BASE (INCLUDED). THEREFORE, THE TOP OF THE CLASS 5 COMPACTED BASE IS PRECISELY 1' 4" BELOW THE GUTTERLINE ELEVATION. THE INLET TO THE RAIN GUARDIAN TURRET WILL BE 10-1/2" ABOVE THE TOP OF THE CONCRETE BASE AND 1-1/2" BELOW THE GUTTERLINE ELEVATION TO ACCOMMODATE A SLOPED INLET FROM THE GUTTER TO THE RAIN GUARDIAN TURRET.

2. SET RAIN GUARDIAN TURRET ON THE PREPARED CLASS 5 BASE.

3. INSTALL FRAMING FOR INLET BETWEEN RAIN GUARDIAN TURRET AND BACK OF CURB. TOP ELEVATIONS OF THE FRAMING SHOULD MATCH THE TOP OF THE CURB ON THE STREET SIDE AND THE TOP OF THE RAIN GUARDIAN TURRET ON THE BIORETENTION SIDE.

4. INSTALL EXPANSION/CONTRACTION JOINT MATERIAL OR A SHEET OF POLY TO SERVE AS A BOND BREAK BETWEEN RAIN GUARDIAN TURRET AND CONCRETE INLET BEFORE POURING INLET.

5. SIDE CURBS OF THE POURED INLET MUST HAVE AN INSURMOUNTABLE PROFILE TO PREVENT WATER FLOW FROM OVERTOPPING THE DOWNSTREAM SIDE OF THE INLET.

6. REMOVABLE FILTER WALL SHOULD BE INSTALLED WITH FILTER FABRIC ON THE INTERIOR SIDE OF THE RAIN GUARDIAN TURRET.

RAIN GUARDIAN — U.S. PATENT NOS. 8,640,869 AND 8,858,804

PRETREATMENT FOR BIORETENTION

Rain Gardens • Swales • Filtration Basins • Infiltration Basins

www.RainGuardian.biz

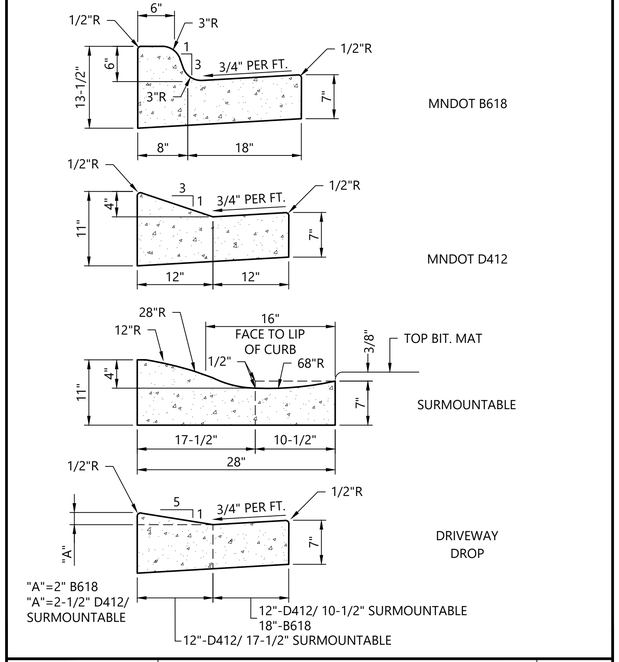
RAIN GUARDIAN TURRET
PRETREATMENT CHAMBER
BIORETENTION PONDING DEPTH: 1'
TYPICAL DETAIL

REVISION HISTORY

REV	BY	DATE	DESCRIPTION
A	MDH	11/16/2022	TURRET - 1'
SCALE		VARIABLE	
U.S. PATENT NOS.		8,501,616 AND 8,858,804	

DEVELOPED BY: ANOKA CONSERVATION DISTRICT

MANUFACTURED BY: Stoneworks — ARCHITECTURAL PRECAST / CAST STONE — NATIONAL PRECAST CONCRETE ASSOCIATION CERTIFIED PLANT



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CURB SECTIONS (TYP.)

DATE ISSUED: APRIL 2026

XX

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DRAWN BY: PMP/DML

CHECKED BY: CJD

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CHRISTOPHER J. DAHN LIC. NO.: 58628 DATE:

DATE	REV#	REVISIONS DESCRIPTION

TURTLE PONDS 6TH ADDITION

DETAILS SHEET

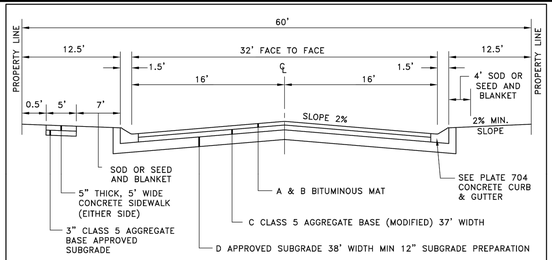
C2.01

PROJECT #: 2026-10089

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Nov 11, 2022 - 11:33am K:\Local_eng\Details\ST FRANCIS\Standard plates\400 STORM\Stm-403.dwg

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LEGEND					
AASHTO	R VALUE SIGMA N18	BITUMINOUS SURFACE		AGGREGATE BASE	
SUBGRADE SOIL CLASS		WEAR 2360***	NON-WEAR 2360***	CLASS 5 OR 6 3138 C*	CLASS 3 OR 4 3138 D*
A-3	(R-70 ≤ 90,000)	** 1 1/2"	** 2"	** 8"	–
A-4	(R-20 ≤ 90,000)	1 1/2"	2"	8"	–
A-6	(R-15 ≤ 90,000)	1 1/2"	2"	8"	12"
A-7	(R-10 ≤ 90,000)	1 1/2"	2"	8"	18"
	(R-5 ≤ 90,000)	1 1/2"	2"	8"	24"

* SUBJECT TO REVIEW BY QUALIFIED SOILS ENGINEER

** MINIMUM ALLOWABLE DESIGN THICKNESS

*** NEW CONSTRUCTION ASPHALT BINDER GRADE = B

NOTES:
R VALUE IS A MEASURE OF EMBANKMENT SOIL RESISTANCE STRENGTH AS DETERMINED BY THE HVEEM STABILOMETER METHOD.

SIGMA N18 VALUE IS THE CUMULATIVE DAMAGE EFFECT OF VEHICLES DURING THE DESIGN LIFE OF A FLEXIBLE PAVEMENT.

LOCAL RESIDENTIAL URBAN STREET SECTION – 9 TON

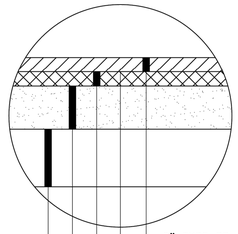
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City of St. Francis

STANDARD PLATE NO. 100



BITUMINOUS PATCH SECTION

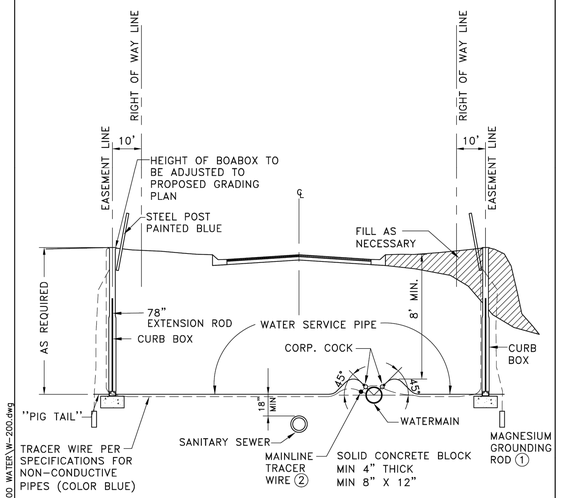
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City of St. Francis

STANDARD PLATE NO. 107



REFERENCE NOTES:
① GROUNDING ROD SHALL HAVE RED WIRE CONNECTED THAT TERMINATES IN BOABOX.
② CONNECT TO MAIN LONE TRACER WIRE WITH A THREE-WAY LUG CONNECTIONS.

WATER SERVICE DETAIL

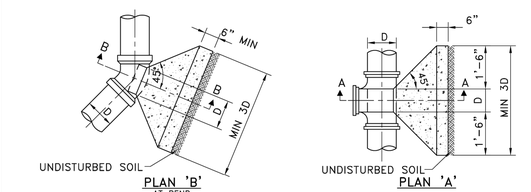
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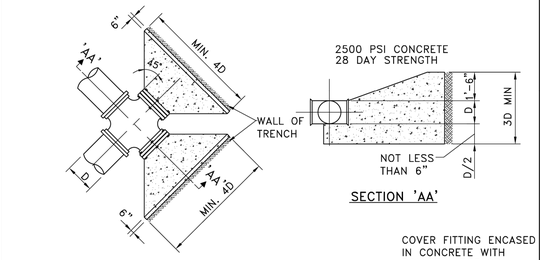
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City of St. Francis

STANDARD PLATE NO. 200





COVER FITTING ENCASED IN CONCRETE WITH POLYETHYLENE OR BUILDING PAPER PRIOR TO POURING

Nov 11, 2022 – 10:16pm
K:\cod_eng\Details\ST FRANCIS\Standard plates\200 WATER\W-203.dwg

APPROVED
REVISED

City of St. Francis

STANDARD PLATE NO. 203

PIPE SIZE	TEE or PLUG	CROSS W/ 2 PLUGS (i.e. 90° BEND)	1/8 BEND (45° BEND) AND 1/16 BEND (22.5°)
6"	0.22 CuYds	0.15 CuYds	0.05 CuYds
8"	0.27 CuYds	0.29 CuYds	0.08 CuYds
10"	0.32 CuYds	0.48 CuYds	0.14 CuYds
12"	0.37 CuYds	0.73 CuYds	0.21 CuYds
16"	0.53 CuYds	1.73 CuYds	0.49 CuYds
20"	0.82 CuYds	3.36 CuYds	0.95 CuYds
24"	1.34 CuYds	5.77 CuYds	1.63 CuYds

NOTE:
1. COVER FITTINGS ENCASED IN CONCRETE WITH POLYETHYLENE OR BUILDING PAPER PRIOR TO POURING.
2. CONCRETE BLOCKING SHALL BE POURED AGAINST FIRM, UNDISTURBED GROUND.
3. CONCRETE SHALL MEET THE REQUIREMENTS FOR GRADE B CONCRETE IN CONFORMANCE WITH Mn/DOT 2461.
4. ALL METAL PARTS OF TIE ROD OR STRAP TYPE RESTRAINTS SHALL BE GALVANIZED OR COATED WITH ASPHALTIC TYPE RUSTPROOFING.

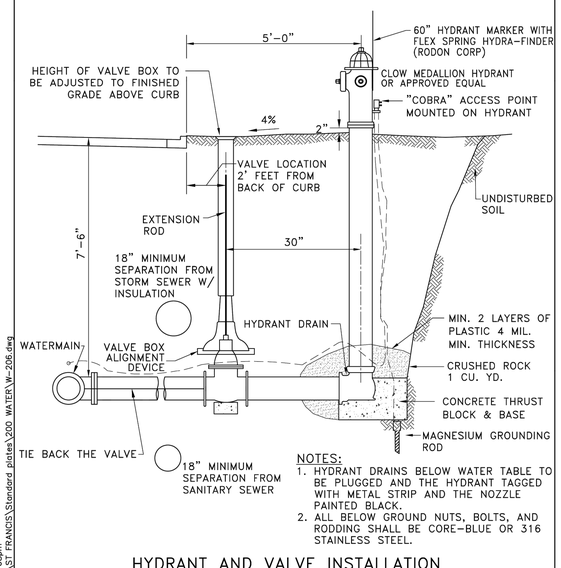
WATERMAIN CONCRETE BLOCKING QUANITIES

Nov 11, 2022 – 10:17pm
K:\cod_eng\Details\ST FRANCIS\Standard plates\200 WATER\W-204.dwg

APPROVED
REVISED

City of St. Francis

STANDARD PLATE NO. 204



NOTES:
1. HYDRANT DRAINS BELOW WATER TABLE TO BE PLUGGED AND THE HYDRANT TAGGED WITH METAL STRIP AND THE NOZZLE PAINTED BLACK.
2. ALL BELOW GROUND NUTS, BOLTS, AND RODDING SHALL BE CORE-BLUE OR 316 STAINLESS STEEL.

HYDRANT AND VALVE INSTALLATION

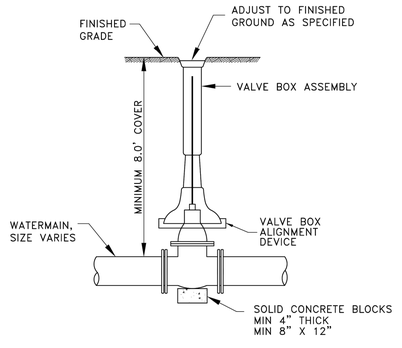
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Dec 19, 2022 – 3:08pm
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City of St. Francis

STANDARD PLATE No. 206



NOTES:
1. ALL VALVES SHALL BE FITTED WITH EXTENSION STEMS. TO BRING THE OPERATING NUT TO BE 12" FROM THE SURFACE.
2. ALL BELOW GROUND NUTS, BOLTS, AND RODDING SHALL BE CORE-BLUE OR 316 STAINLESS STEEL.

TYPICAL RESILIENT WEDGE VALVE & BOX INSTALLATION 10" & UNDER WATERMAIN

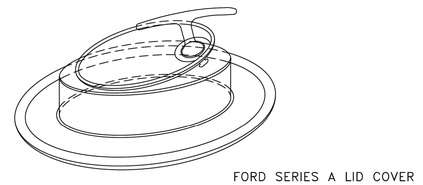
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Nov 11, 2022 – 10:27am
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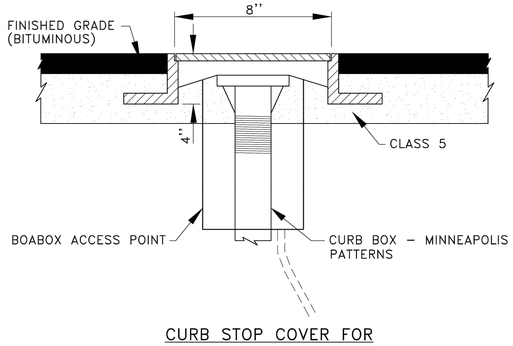
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REVISED

City of St. Francis

STANDARD PLATE NO. 207



FORD SERIES A LID COVER



CURB STOP COVER FOR DRIVEWAY INSTALLATION

NO SCALE

Dec 27, 2022 – 7:56pm
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APPROVED
REVISED

City of St. Francis

STANDARD PLATE NO. 209

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WIDSETH
ARCHITECTS ▪ ENGINEERS ▪ SCIENTISTS ▪ SURVEYORS

DRAWN BY: PMP/DML
CHECKED BY: CJD

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CHRISTOPHER J. DAHN LIC. NO.: 58628 DATE:

DATE	REV#	REVISIONS DESCRIPTION

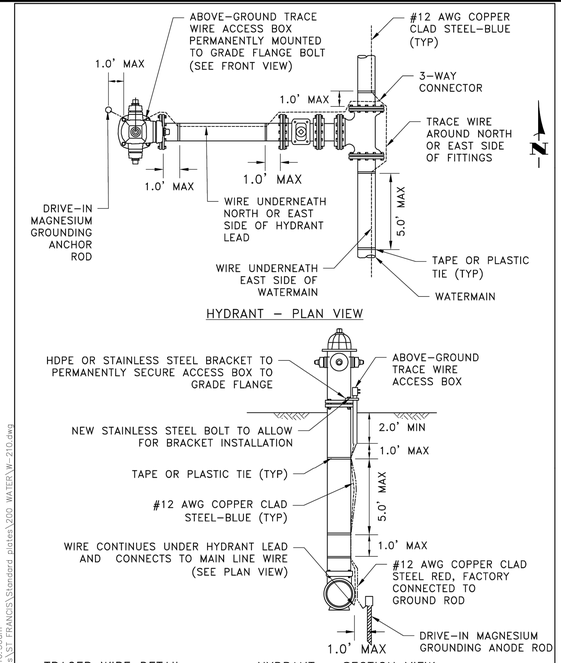
TURTLE PONDS 6TH ADDITION

DETAILS SHEET

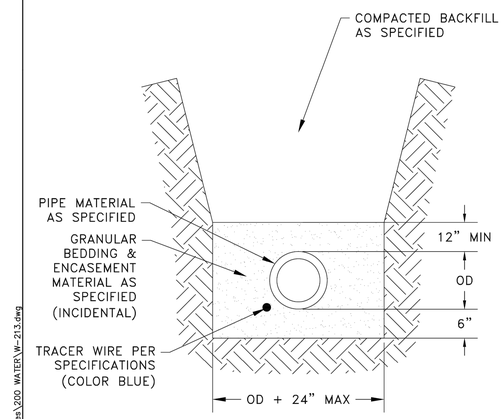
C2.02

PROJECT #: 2026-10089

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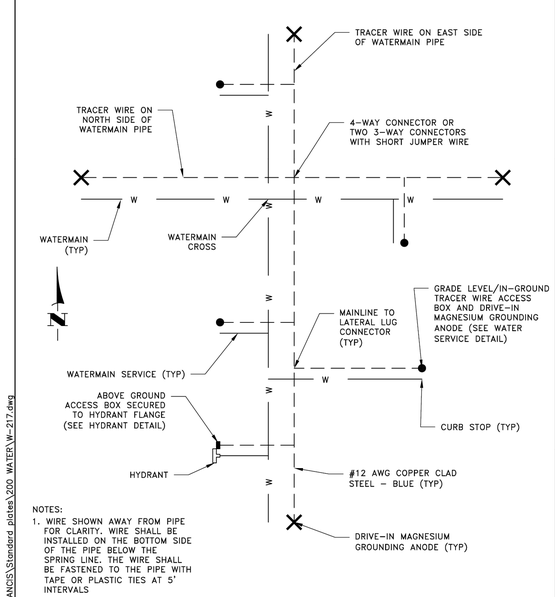


APPROVED	City of St. Francis	STANDARD PLATE NO. 210
REVISED		



PVC C-900 WATERMAIN TRENCH
NO SCALE

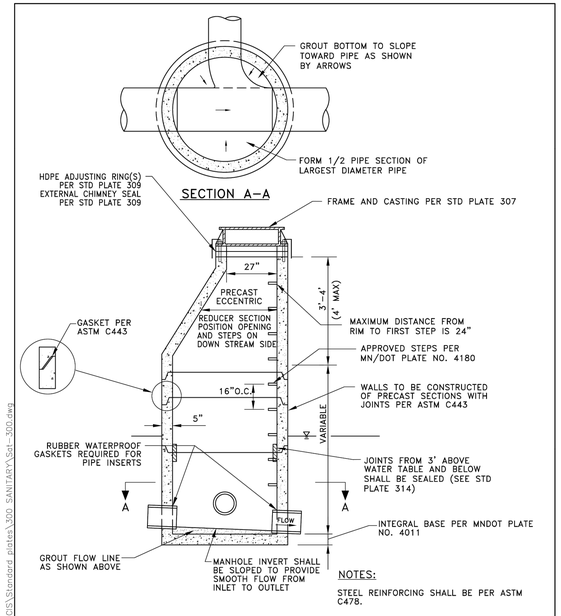
APPROVED	City of St. Francis	STANDARD PLATE NO. 213
REVISED		



NOTES:
1. WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON THE BOTTOM SIDE OF THE PIPE BELOW THE SPRING LINE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS

TRACER WIRE SAMPLE WATER PLAN
NO SCALE

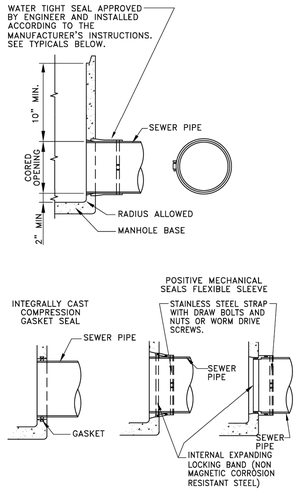
APPROVED	City of St. Francis	STANDARD PLATE NO. 217
REVISED		



NOTES:
STEEL REINFORCING SHALL BE PER ASTM C478.

SANITARY SEWER STANDARD MANHOLE
NO SCALE

APPROVED	City of St. Francis	STANDARD PLATE NO. 300
REVISED		



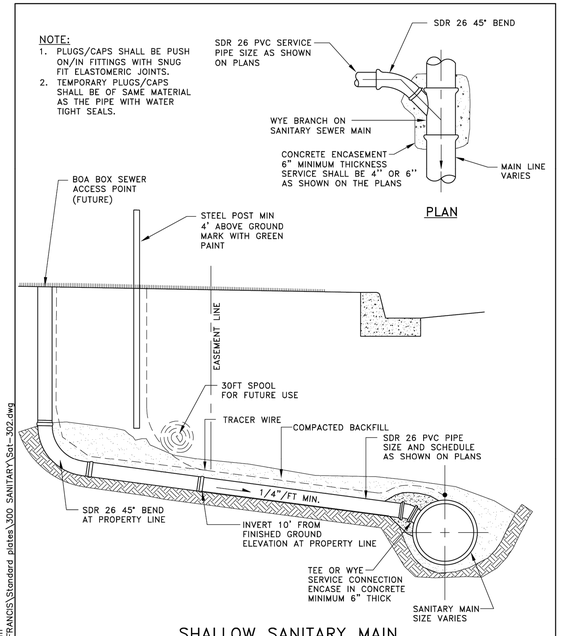
SLEEVE NOTES:

FLEXIBLE SLEEVE SHALL BE NEOPRENE MATERIAL MEETING THE REQUIREMENTS OF ASTM C-443 OR AS APPROVED

FLEXIBLE SLEEVE DIMENSIONS SHALL CONFORM TO PRODUCERS STANDARDS.

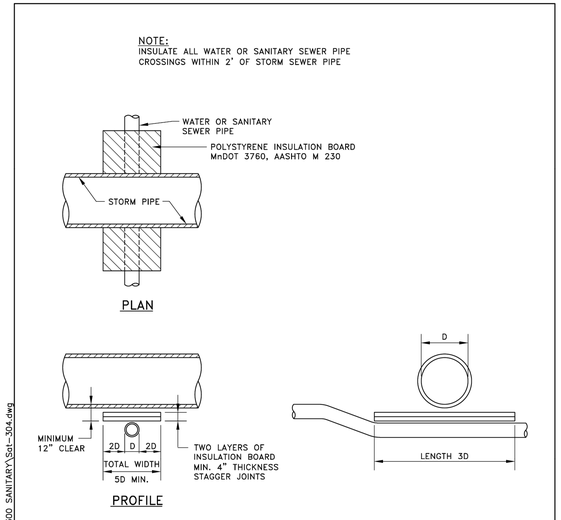
TYPICAL WATER TIGHT SEALS
NO SCALE

APPROVED	City of St. Francis	STANDARD PLATE NO. 301
REVISED		



SHALLOW SANITARY MAIN SERVICE CONNECTION
NO SCALE

APPROVED	City of St. Francis	STANDARD PLATE NO. 302
REVISED		



INSULATION FOR WATER & SANITARY SEWER PIPE & SERVICES
NO SCALE

APPROVED	City of St. Francis	STANDARD PLATE NO. 304
REVISED		

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Dec. 27, 2022 - 8:03pm K:\cod_eng\Details\ST FRANCIS\Standard plates\300 SANITARY\Sst-300.dwg
Nov 11, 2022 - 10:30pm K:\cod_eng\Details\ST FRANCIS\Standard plates\200 WATER\W-210.dwg
Nov 17, 2022 - 3:00pm K:\cod_eng\Details\ST FRANCIS\Standard plates\200 WATER\W-213.dwg
Dec. 27, 2022 - 8:05pm K:\cod_eng\Details\ST FRANCIS\Standard plates\300 SANITARY\Sst-301.dwg
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Nov 11, 2022 - 10:49pm K:\cod_eng\Details\ST FRANCIS\Standard plates\300 SANITARY\Sst-304.dwg

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CHRISTOPHER J. DAHN LIC. NO.: 58628 DATE:

DATE	REV#	REVISIONS DESCRIPTION

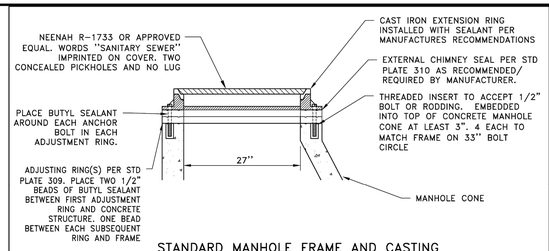
TURTLE PONDS 6TH ADDITION

DETAILS SHEET

C2.03

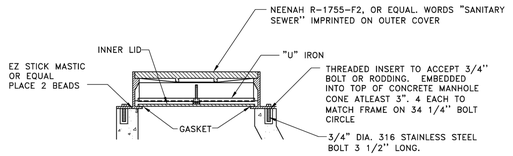
PROJECT #: 2026-10089

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STANDARD MANHOLE FRAME AND CASTING

(ALL MANHOLES EXCEPT WHERE WATERPROOF FRAMES AND CASTINGS ARE REQUIRED)



WATERPROOF FRAME AND CASTING

(ALL FORCEMAIN MANHOLES, OR ANY MANHOLE WITHIN GREEN SPACES OR WITHIN THE 100 YR HWL AREA)

NOTE:

1. ALL NUTS, BOLTS, THREADED INSERTS, AND RODDING SHALL BE 316 STAINLESS STEEL.
2. CLEAN ALL SURFACES TO REMOVE SCALE OR LOOSE IMPEDIMENTS BEFORE PLACING ANY MASTIC, SEALANT, OR INSTALLATION OF FRAME AND CASTING SYSTEM.
3. NEENAH R-1642 SYSTEM SHALL CONSIST OF CAST IRON FRAME, SOLID CAST IRON LID, CAST IRON EXTENSION RING AND HDPE "PLASTIC" ADJUSTMENT RINGS.
4. NEENAH R-1755-F2 SYSTEM SHALL CONSIST OF CAST IRON FRAME, SOLID CAST IRON LID, & INNER LID. THOUGH NOT TYPICAL IF NECESSARY HDPE "PLASTIC" ADJUSTMENT RINGS SHALL BE USED. THE INSERT EXTENSION RINGS ARE NOT ALLOWED FOR FINAL CASTING ADJUSTMENTS WITH THESE FRAMES AND CASTINGS.

SANITARY MANHOLE FRAME AND CASTING

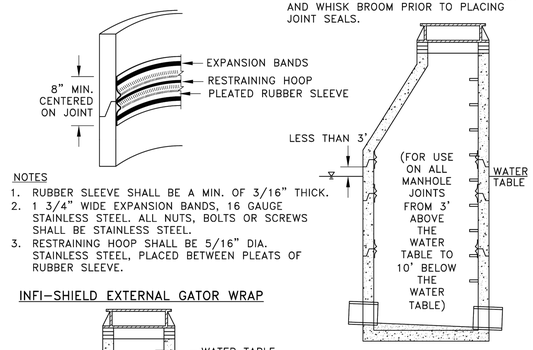
NO SCALE

APPROVED		STANDARD PLATE NO. 307
REVISED		

Nov 11, 2022 – 10:55am
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INTERNAL MANHOLE JOINT SEAL

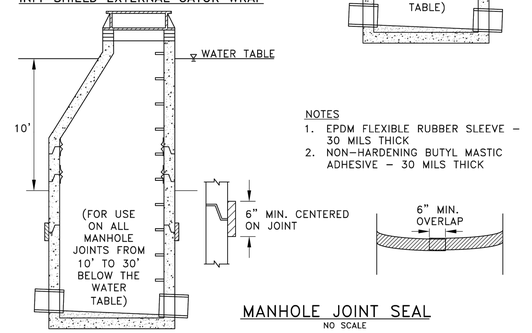
ALL SEALS SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS. CLEAN AREA AROUND JOINTS WITH WIRE BRUSH AND WHISK BROOM PRIOR TO PLACING JOINT SEALS.



NOTES

1. RUBBER SLEEVE SHALL BE A MIN. OF 3/16" THICK.
2. 1 3/4" WIDE EXPANSION BANDS, 16 GAUGE STAINLESS STEEL. ALL NUTS, BOLTS OR SCREWS SHALL BE STAINLESS STEEL.
3. RESTRAINING HOOP SHALL BE 5/16" DIA. STAINLESS STEEL, PLACED BETWEEN PLEATS OF RUBBER SLEEVE.

INFI-SHIELD EXTERNAL GATOR WRAP



NOTES

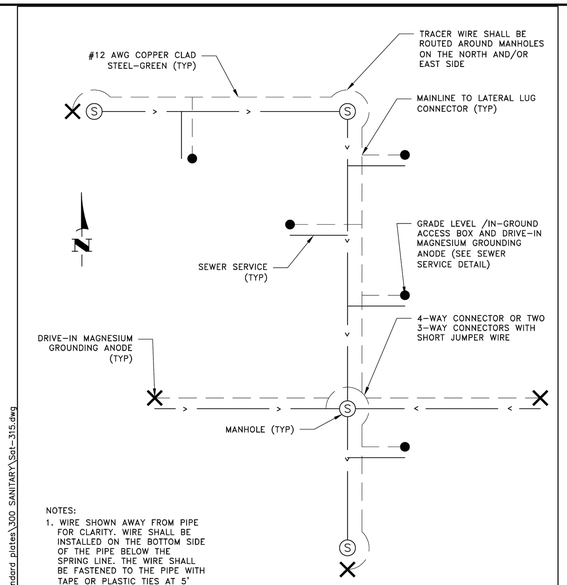
1. EPDM FLEXIBLE RUBBER SLEEVE – 30 MILS THICK
2. NON-HARDENING BUTYL MASTIC ADHESIVE – 30 MILS THICK

MANHOLE JOINT SEAL

NO SCALE

APPROVED		STANDARD PLATE NO. 314
REVISED		

Nov 11, 2022 – 10:59am
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NOTES:

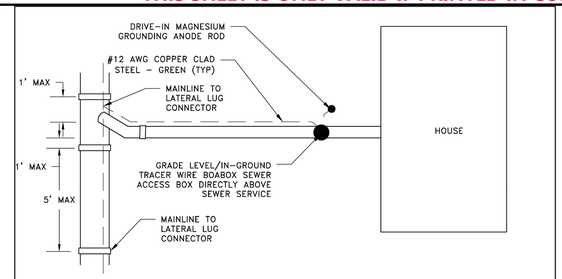
1. WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON THE BOTTOM SIDE OF THE PIPE BELOW THE SPRING LINE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS

TRACER WIRE PLAN (SEWER)

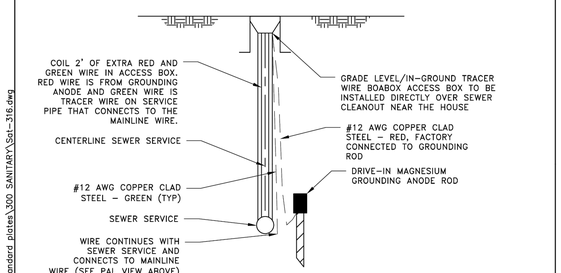
NO SCALE

APPROVED		STANDARD PLATE NO. 315
REVISED		

Dec 27, 2022 – 8:09pm
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SEWER SERVICE – PLAN VIEW



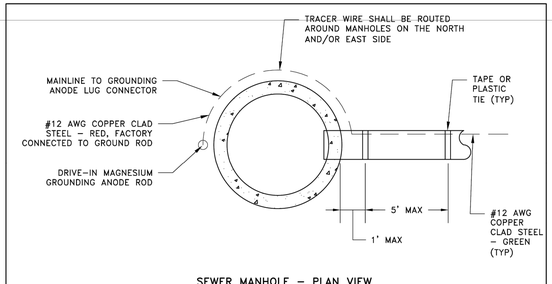
SEWER SERVICE – SECTION VIEW

TRACER WIRE SEWER SERVICE DETAIL

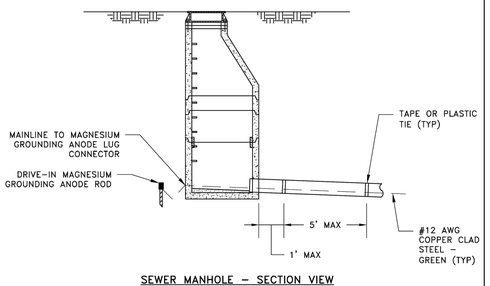
NO SCALE

APPROVED		STANDARD PLATE NO. 316
REVISED		

Dec 27, 2022 – 8:10pm
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SEWER MANHOLE – PLAN VIEW



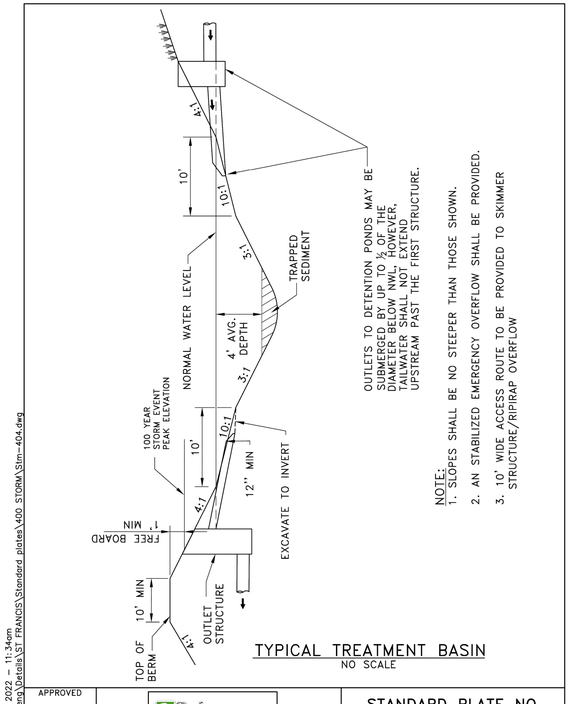
SEWER MANHOLE – SECTION VIEW

TRACER WIRE SEWER MANHOLE DETAIL

NO SCALE

APPROVED		STANDARD PLATE NO. 317
REVISED		

Dec 27, 2022 – 8:12pm
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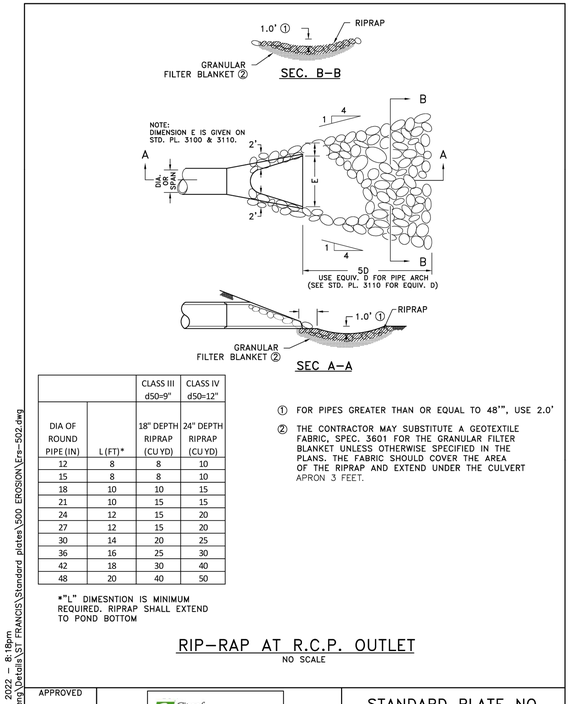


TYPICAL TREATMENT BASIN

NO SCALE

APPROVED		STANDARD PLATE NO. 404
REVISED		

Nov 11, 2022 – 11:34am
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DIA OF ROUND PIPE (IN)	L (FT)*	CLASS III d50=9" 18" DEPTH RIPRAP (CU YD)	CLASS III d50=9" 24" DEPTH RIPRAP (CU YD)	CLASS IV d50=12" 18" DEPTH RIPRAP (CU YD)	CLASS IV d50=12" 24" DEPTH RIPRAP (CU YD)
12	8	8	10		
15	8	8	10		
18	10	10	15		
21	10	15	15		
24	12	15	20		
27	12	15	20		
30	14	20	25		
36	16	25	30		
42	18	30	40		
48	20	40	50		

*"L" DIMESNTION IS MINIMUM REQUIRED. RIPRAP SHALL EXTEND TO POND BOTTOM

① FOR PIPES GREATER THAN OR EQUAL TO 48"", USE 2.0'

② THE CONTRACTOR MAY SUBSTITUTE A GEOTEXTILE FABRIC, SPEC. 3601 FOR THE GRANULAR FILTER BLANKET UNLESS OTHERWISE SPECIFIED IN THE PLANS. THE FABRIC SHOULD COVER THE AREA OF THE RIPRAP AND EXTEND UNDER THE CULVERT APRON 3 FEET.

RIP-RAP AT R.C.P. OUTLET

NO SCALE

APPROVED		STANDARD PLATE NO. 502
REVISED		

Dec 27, 2022 – 8:18pm
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DRAWN BY: PMP/DML
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CHRISTOPHER J. DAHN LIC. NO.: 58628 DATE:

DATE	REV#	REVISIONS DESCRIPTION

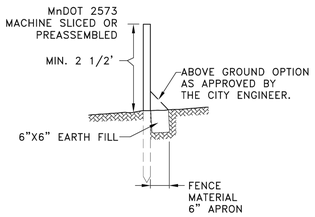
TURTLE PONDS 6TH ADDITION

DETAILS SHEET

C2.04

PROJECT #: 2026-10089

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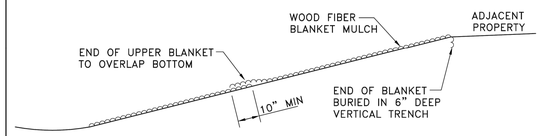


5' POSTS – 8' MAX. ON CENTER
MINIMUM 2' PENETRATION

REF. MnDOT 3886

SILT FENCE
NO SCALE

APPROVED
REVISED
City of St. Francis
STANDARD PLATE NO. 503



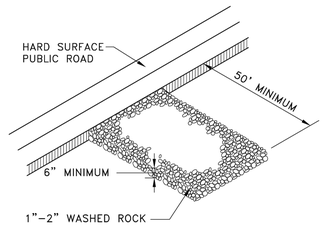
NOTE:
WOOD FIBER BLANKET SHALL BE PLACED AND STAPLED ACCORDING TO Mn/DOT SPECIFICATION 2575.3K2 WITH THE FOLLOWING EXCEPTIONS. ADJACENT STRIP EDGES SHALL BE OVERLAPPED A MINIMUM OF 6".

PLASTIC OR WOOD BIODEGRADABLE STAKES OR STAPLES SHALL BE USED IN PLACE OF METAL WIRE STAPLES.

ECOSTAKES AND BIOSTAKES ARE ACCEPTABLE PRODUCTS FOR USE TO FASTEN WOOD FIBER BLANKET.

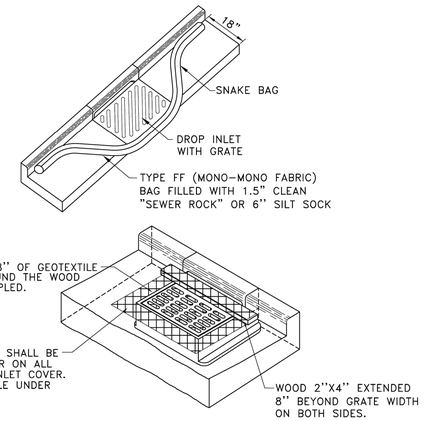
WOOD FIBER BLANKET INSTALLATION ON A CUT SLOPE
NO SCALE

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City of St. Francis
STANDARD PLATE NO. 504



ROCK CONSTRUCTION ENTRANCE
NO SCALE

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REVISED
City of St. Francis
STANDARD PLATE NO. 505



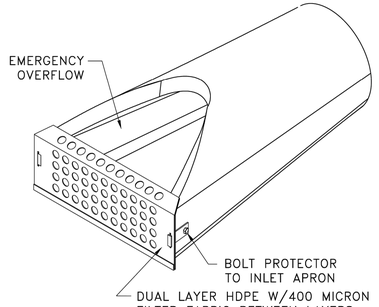
① ALL GEOTEXTILE USED FOR INLET PROTECTION SHALL BE MONOFILAMENT IN BOTH DIRECTIONS, MEETING SPEC. 3886 FOR MACHINE SLICED.

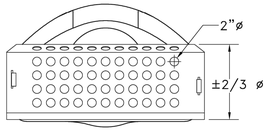
② WIMCO'S MAY BE USED IN PLACE OF ABOVE.

③ ALL DROP INLET PROTECTION SHALL BE REMOVED PRIOR TO WINTER FREEZE.

DROP INLET PROTECTION
NO SCALE

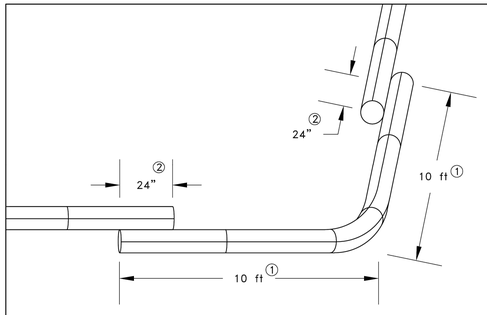
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REVISED
City of St. Francis
STANDARD PLATE NO. 506

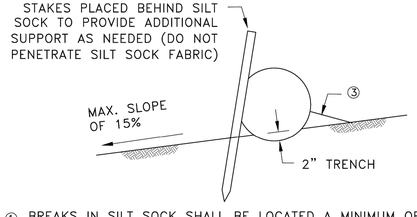




CULVERT CONTROL END
NO SCALE

APPROVED
REVISED
City of St. Francis
STANDARD PLATE NO. 507





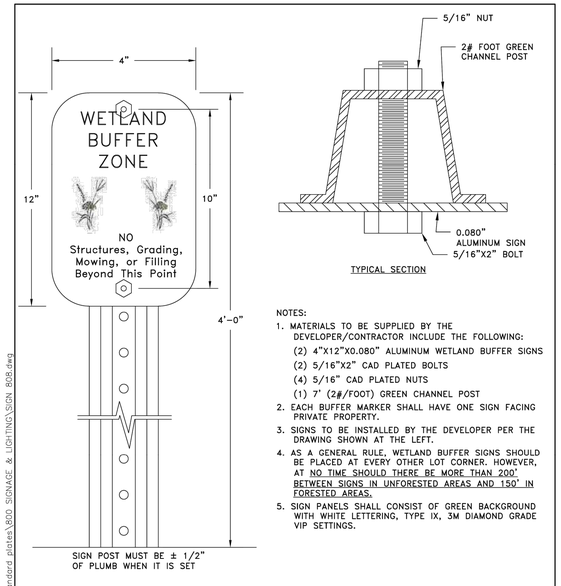
① BREAKS IN SILT SOCK SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY SHARP BEND OR CHANGE IN SOCK DIRECTION.

② SOCK'S SHALL BE OVERLAPPED A MINIMUM OF 24" WITH THE UPSLOPE SIDE INFRONT.

③ SEDIMENT ACCUMULATION OF 1/2 THE SOCK HEIGHT MUST BE REMOVED.

SILT SOCK
NO SCALE

APPROVED
REVISED
City of St. Francis
STANDARD PLATE NO. 508



TYPICAL SECTION

NOTES:
1. MATERIALS TO BE SUPPLIED BY THE DEVELOPER/CONTRACTOR INCLUDE THE FOLLOWING:
   (2) 4"X12"X0.080" ALUMINUM WETLAND BUFFER SIGNS
   (2) 5/16"X2" CAD PLATED BOLTS
   (4) 5/16" CAD PLATED NUTS
   (1) 7' (2#/FOOT) GREEN CHANNEL POST
2. EACH BUFFER MARKER SHALL HAVE ONE SIGN FACING PRIVATE PROPERTY.
3. SIGNS TO BE INSTALLED BY THE DEVELOPER PER THE DRAWING SHOWN AT THE LEFT.
4. AS A GENERAL RULE, WETLAND BUFFER SIGNS SHOULD BE PLACED AT EVERY OTHER LOT CORNER. HOWEVER, AT NO TIME SHOULD THERE BE MORE THAN 200' BETWEEN SIGNS IN UNFORESTED AREAS AND 150' IN FORESTED AREAS.
5. SIGN PANELS SHALL CONSIST OF GREEN BACKGROUND WITH WHITE LETTERING, TYPE IX, 3M DIAMOND GRADE VIP SETTINGS.

WETLAND BUFFER ZONE SIGN INSTALLATION
NO SCALE

APPROVED
REVISED
City of St. Francis
STANDARD PLATE NO. 808

WIDSETH ARCHITECTS ▪ ENGINEERS ▪ SCIENTISTS ▪ SURVEYORS

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CHECKED BY: CJD

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

CHRISTOPHER J. DAHN LIC. NO.: 58628 DATE:

DATE	REV#	REVISIONS DESCRIPTION

TURTLE PONDS 6TH ADDITION

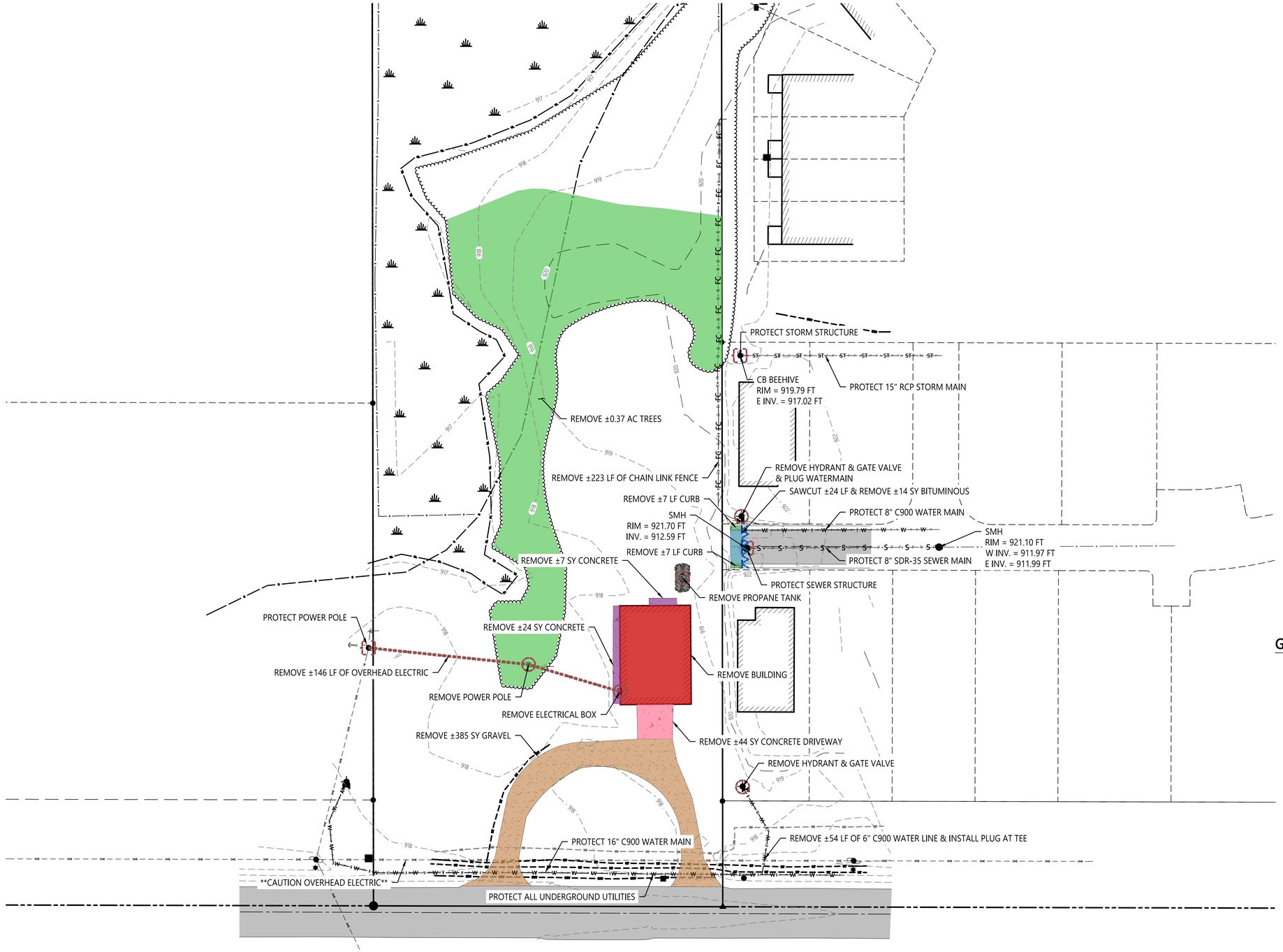
DETAILS SHEET

C2.05

PROJECT #: 2026-10089

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DEMOLITION & REMOVAL LEGEND

- REMOVE ITEM (CALLOUT FOR ITEM TYPE)
- PROTECT ITEM (CALLOUT FOR ITEM TYPE)
- RELOCATE ITEM (CALLOUT FOR ITEM TYPE)
- CLEARING AND GRUBBING (ACRE)
- REMOVE CONCRETE DRIVEWAY PAVEMENT (SY)
- REMOVE CONCRETE PAVEMENT (SY)
- PROTECT SEWER PIPE (SANITARY) (EACH)
- PROTECT SEWER PIPE (STORM) (EACH)
- REMOVE WATER MAIN (LF)
- PROTECT WATER MAIN (EACH)
- REMOVE CHAIN LINK FENCE (LF)
- REMOVE GRAVEL (SY)
- REMOVE BUILDING (EACH)
- REMOVE OVERHEAD ELECTRICAL LINE (LF)
- REMOVE BITUMINOUS PAVEMENT (SY)
- SAWING BITUMINOUS PAVEMENT (FULL DEPTH) (LF)
- REMOVE CONCRETE CURB AND GUTTER (LF)

GENERAL DEMOLITION & REMOVAL PLAN NOTES

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02. ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
- PRIVATE UTILITY LOCATES ARE TO BE COORDINATED WITH THE ENGINEER. THE PRIVATE LOCATES WILL BE DONE BY GOPHER STATE ONE CALL. ALL EROSION CONTROL MEASURES AS SHOWN ON THE EROSION CONTROL PLAN ARE TO BE IN PLACE PRIOR TO BEGINNING REMOVALS.
- CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, TREES, CONCRETE PAVEMENT, BITUMINOUS PAVEMENT, BUILDINGS, LIGHT POLES & BASES, ETC. NOT NOTED FOR DEMOLITION & REMOVAL DURING REMOVALS. ANY DAMAGED STRUCTURES TO REMAIN SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER.
- ALL SAWCUT EDGES IN CONCRETE WALK, CONCRETE PAVEMENT AND BITUMINOUS PAVEMENT SHALL BE PROTECTED AFTER REMOVALS THROUGH THE DURATION OF THE PROJECT. PAYMENT FOR SAWCUTTING WILL BE MADE ONLY ONCE. ADDITIONAL SAWCUTTING TO MAINTAIN A CLEAN SAWCUT EDGE WILL BE AT THE EXPENSE OF THE CONTRACTOR.
- ALL MATERIALS IDENTIFIED FOR REMOVAL SHALL BE DISPOSED OFF SITE IN ACCORDANCE WITH STATE AND LOCAL LAWS.
- THE CONTRACTOR SHALL VERIFY THE ELEVATIONS AT PROPOSED CONNECTIONS TO EXISTING UTILITIES PRIOR TO COMPLETING ANY DISCONNECTIONS AND/OR REMOVALS OF UTILITIES.

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SCALE IN FEET

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DRAWN BY: PMP/DML
CHECKED BY: CJD

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CHRISTOPHER J. DAHN LIC. NO.: 58628 DATE:

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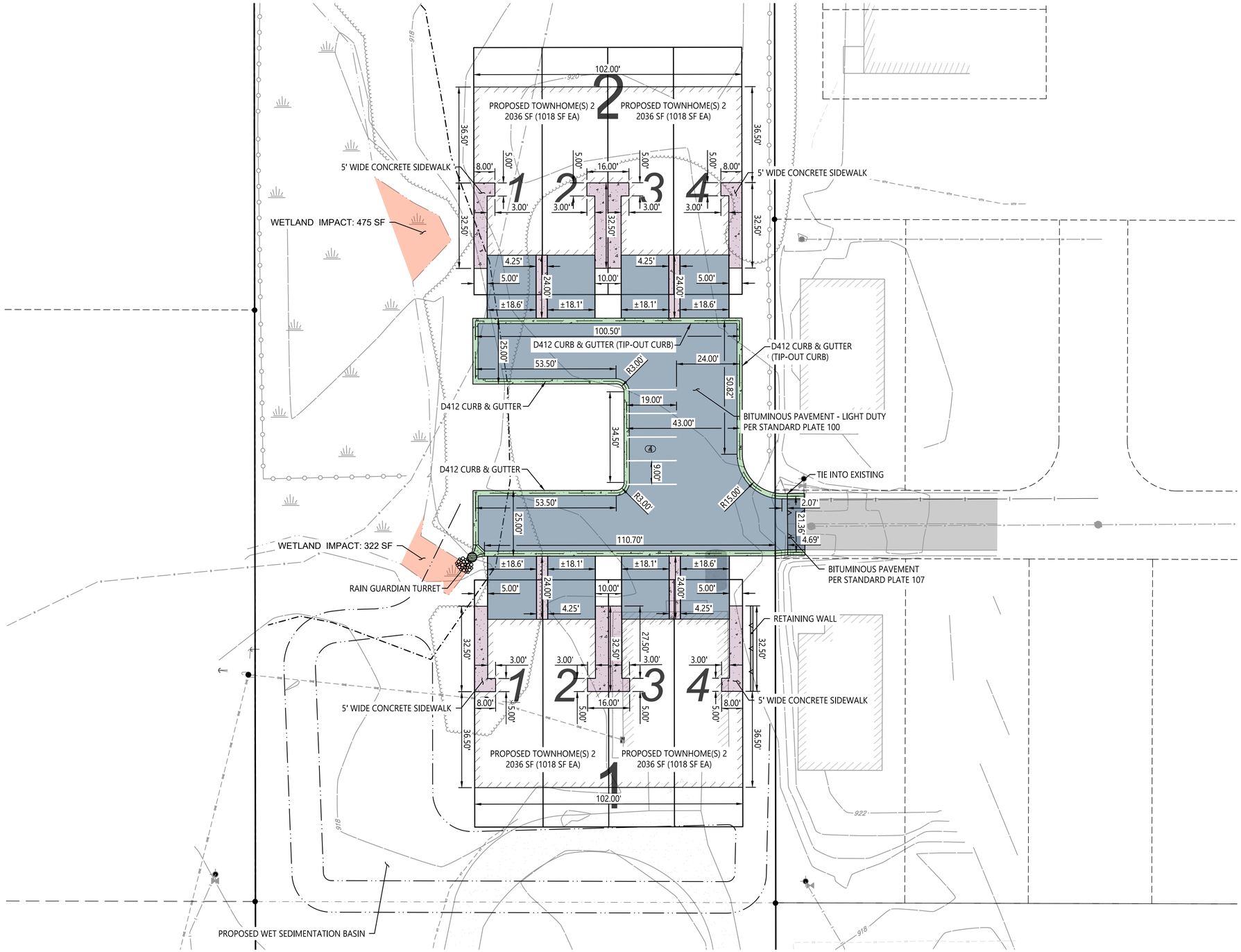
TURTLE PONDS 6TH ADDITION

DEMOLITION PLAN

C3.01

PROJECT #: 2026-10089

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PROPOSED LEGEND

- BITUMINOUS SURFACE
- CONCRETE SURFACE
- CURB & GUTTER
- BUILDING
- WETLAND IMPACT AREA

GENERAL SITE PLAN NOTES:

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38.2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
- CONTRACTOR SHALL CALL GOPHER STATE ONE CALL PRIOR TO BEGINNING REMOVALS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY OWNER AND ENGINEER OF ANY DIFFERENCES BETWEEN THE FIELD AND PLAN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL AND SHALL BE IN COMPLIANCE WITH THE MINNESOTA UNIFORM TRAFFIC CONTROL DEVICES MANUAL AND TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS FIELD MANUAL. THE TRAFFIC CONTROL SHALL BE APPROVED BY THE CITY PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL RECEIVE THE NECESSARY PERMISSION/PERMITS FOR ALL WORK LOCATED OUTSIDE OF THE MUNICIPAL RIGHT-OF-WAY AND PROPERTY LIMITS.
- ALL CURB TO MEET MINNESOTA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR A TYPE "D412 CURB & GUTTER", UNLESS PLANS ARE MARKED OTHERWISE.
- ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
- ALL CURB RADII ARE 5.0 FEET TO FACE OF CURB UNLESS OTHERWISE NOTED.

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SCALE IN FEET

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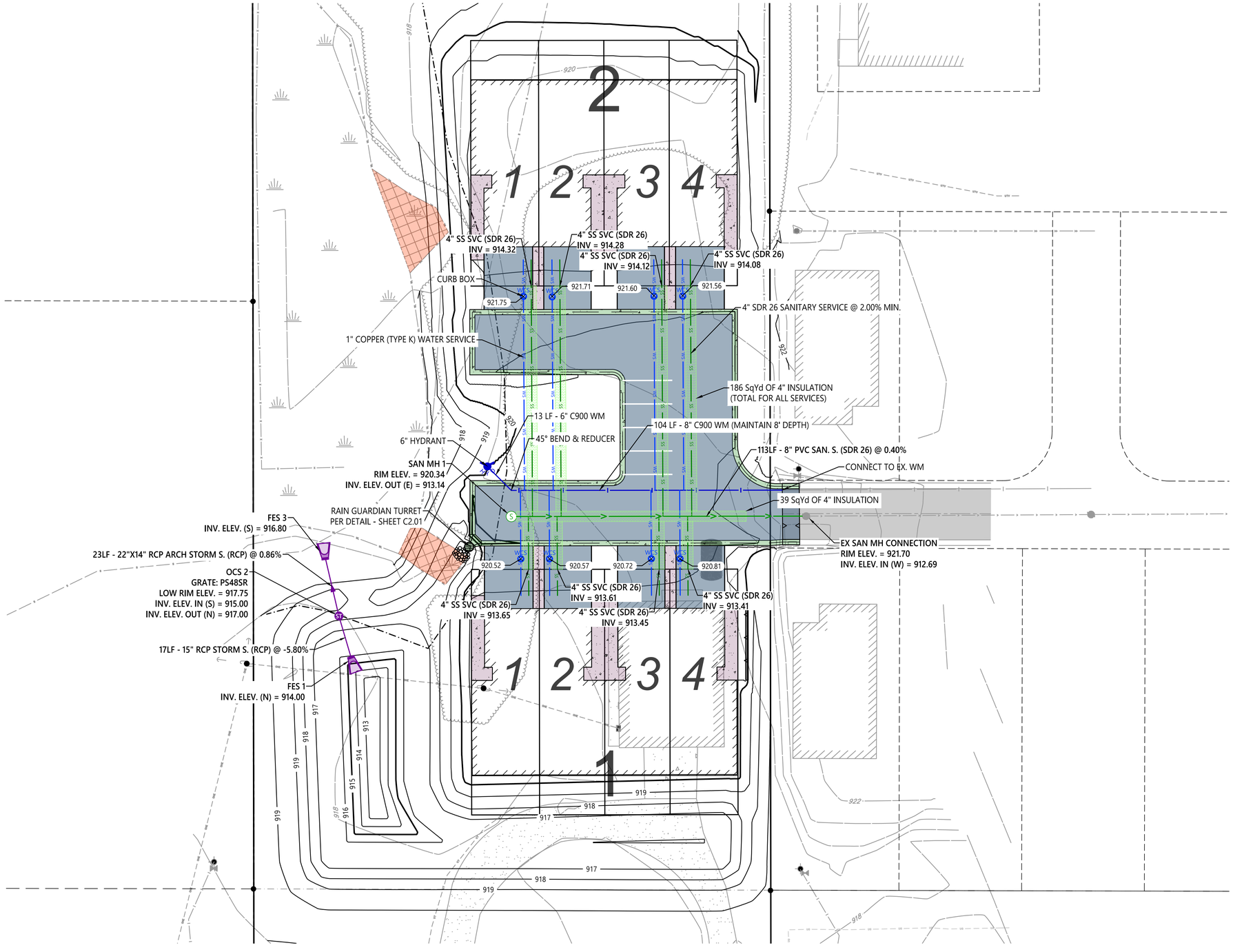
TURTLE PONDS 6TH ADDITION

SITE PLAN

C4.01

PROJECT #: 2026-10089

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PROPOSED LEGEND

- SANITARY GRAVITY MAIN
- SANITARY SERVICE LINE
- WATER MAIN PIPE
- WATER SERVICE PIPE
- SANITARY MANHOLE
- CURB STOP
- HYDRANT
- STORM SEWER GRAVITY MAIN

GENERAL UTILITY NOTES

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-.2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
- THE ENGINEER HAS MADE AN ATTEMPT TO SHOW ALL PUBLIC UTILITIES WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT. PUBLIC UTILITIES SHOWN ON THIS PLAN WERE DRAWN USING FIELD SURVEY INFORMATION AND MAPS PROVIDED TO THE ENGINEER BY THE UTILITY COMPANIES AS A RESULT OF A GOPHER STATE ONE CALL DESIGN LOCATE REQUEST. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE LOCATIONS PRIOR TO BIDDING AND CONSTRUCTING THE PROJECT.
- PRIVATE UTILITY LOCATES ARE TO BE COORDINATED WITH THE ENGINEER. THE PRIVATE LOCATES WILL BE DONE BY GOPHER STATE ONE CALL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION LOCATES AND SHALL NOTIFY ALL AFFECTED UTILITY COMPANIES AT LEAST 48-HOURS BEFORE CONSTRUCTION.
- UNLESS OTHERWISE NOTED, ALL MATERIALS, CONSTRUCTION TECHNIQUES AND TESTING SHALL CONFORM TO THE 2013 EDITION OF THE "STANDARD SPECIFICATIONS FOR TRENCH EXCAVATION AND BACKFILL/SURFACE RESTORATION, WATERMAIN AND SERVICE LINE INSTALLATION AND SANITARY SEWER AND STORM SEWER INSTALLATION" AS PUBLISHED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA AND THE "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AS PUBLISHED BY THE MINNESOTA DEPARTMENT OF TRANSPORTATION, 2020 EDITION. THE CONTRACTOR SHALL BE REQUIRED TO FOLLOW ALL PROCEDURES AS OUTLINED BY THE LOCAL AGENCY AND THE MINNESOTA PLUMBING CODE. THE CONTRACTOR SHALL REQUIRE ALL PROCEDURES AS OUTLINED BY THE LOCAL AGENCY.
- THE CONTRACTOR SHALL RECEIVE THE NECESSARY PERMITS FOR ALL WORK OUTSIDE THE PROPERTY LIMITS.
- COORDINATE SERVICE LOCATION ENTRIES WITH THE MECHANICAL ENGINEER.
- WATER SERVICE LINES SHALL BE INSTALLED WITH A MINIMUM OF 8.5 FEET OF COVER.
- RIM ELEVATIONS REFLECT A SUMP OF 0.05 FEET.
- STORM SEWER OF DIFFERING DIAMETERS SHALL MATCH 0.8 DIAMETER GRADE LINE ELEVATIONS AT CATCH BASIN OR MANHOLE JUNCTIONS.
- PROVIDE WATER MAIN THRUST RESTRAINTS PER CITY STANDARD REQUIREMENTS.
- A MINIMUM OF 18 INCH VERTICAL SEPARATION SHALL BE REQUIRED AT ALL WATER MAIN CROSSINGS WITH SANITARY SEWER AND STORM SEWER.
- UTILITY SERVICES TERMINATE 5 FEET OUTSIDE THE BUILDING WALL UNLESS OTHERWISE STATED. SEE ARCHITECTURAL PLAN OR MECHANICAL PLAN FOR EXACT LOCATION AND CONSTRUCTION DETAILS FROM BUILDING WALL TO 5 FEET OUTSIDE BUILDING WALL.
- HDPE STORM SEWER PIPE SHALL MEET THE REQUIREMENTS OF AASHTO M294, TYPE S WITH WATERTIGHT JOINTS. PVC STORM SEWER SHALL BE SCHEDULE 40 PIPE. FLARED ENDS SHALL BE RCP WITH TRASH GUARDS AND RIP RAP.
- TRACER WIRE TO BE INSTALLED WITH SANITARY SEWER AND WATER LINE INSTALLATION PER STANDARD PLATE NO. 315 & 217.

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SCALE IN FEET

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CHRISTOPHER J. DAHN LIC. NO.: 58628 DATE:

DATE	REV#	REVISIONS DESCRIPTION

TURTLE PONDS 6TH ADDITION

UTILITY PLAN

C5.01

PROJECT #: 2026-10089

GENERAL CONSTRUCTION ACTIVITY

Project Name: TURTLE PONDS 6TH ADDITION - ST. FRANCIS

Project Location:
PID: 2761 229th Ave NW St. Francis, MN 55070
Anoka County
45.38547, -93.33677

Project Description (type of construction, phases, timelines, potential for sediment/pollutant discharge):

This project includes the development of a proposed development consisting of 4 - Townhomes. The existing site is developed with an existing structure, bituminous/gravel driveway, and predominately woods/wetland for the north and west half of the property. The proposed project will include construction of the 4- Townhomes as well as a 4 space parking area.

The overall stormwater runoff will be directed from East to West. Runoff will be directed to proposed rain guardian turret and swales on the site and into proposed wet sedimentation basin. The total impervious area of the site will be increased.

Seeding, mulch, and fertilizer will be used for temporary and permanent stabilization. Flocculants and other chemicals are not anticipated to be used on this project.

Total acres of disturbed area = 1.29 acres
Pre-construction acres of impervious surface = 0.15 acres
Post-construction acres of impervious surface = 0.56 acres
Total new acres of impervious surface = 0.41 acres (net increase)

RECEIVING WATERS
This project does include one impaired or special waters within one mile of the project area, the impaired stream is the Rum River, which is roughly a ±0.88 miles to the west-southwest of the site. This site will not be discharging directly into the impaired stream. This project will require a permanent storm water management system and will include temporary and permanent methods to minimize erosion and sedimentation.

Wetland areas will be protected with double row silt protection, which may include silt fence, bioroll, or earthen berms. Drainage ditches and construction exits will be established where needed. All disturbed areas will be covered with turf (seed, mulch, and fertilizer).

PROJECT CONTACTS

Owner:

Contact Name:
Address:
Phone:
Email:

Contractor:
To be determined
Contact Name:
Address:
Phone:
Email:

SWPPP Designer:
Widseth, Inc.
Dylan Lannes, EIT
13076 1st Street
Becker, MN 55308
763-270-6147
dylan.lannes@widseth.com
(UMN Erosion and Stormwater Management Design of Construction SWPPP certification - expires May 31, 2029)

Site Manager / Contractor's Erosion Control Supervisor:
Name:
Training Dates:
Instructor(s:
Content/Hours:

BMP Installer:
Name:
Training Dates:
Instructor(s:
Content/Hours:

Other:
MPCA
Matt Hoskins
651-757-2864
matthew.hoskins@state.mn.us

State Duty Officer
800-422-0798
651-649-5451

SOILS INFORMATION:
According to the NRCS Web Soil Survey, soils on site consists of Isanti fine sandy loam and Lino loamy fine sand (0-4% slopes).

SUMMARY OF OTHER SWPPP REQUIREMENTS IN PROJECT PLANS

DESCRIPTION	SHEET NAME	SHEET NUMBER
Construction limits and project phasing	GRADING PLAN	C7.01
Existing and final grades, direction of flow	EROSION CONTROL PLAN	C8.01
Locations of impervious surfaces	SITE PLAN	C4.01
Standard erosion control construction details	CIVIL DETAILS	C2.01-C2.05
Locations and types of all temp. and perm. erosion prevention and sediment control BMPs	EROSION CONTROL PLAN	C8.01
Estimated quantities of erosion control items	EROSION CONTROL PLAN	C8.01

SEDIMENT AND EROSION CONTROL PRACTICES:
The contractor/ECS is responsible for the sediment and erosion control practices contained in the NPDES permit. Sediment control practices must be installed on all down gradient perimeters before any up gradient land disturbing activities begin. These practices must remain in place until Permit Termination Conditions have been established.

The timing of installation of sediment control practices may be adjusted to accommodate short-term activities, such as clearing and grubbing or passage of vehicles. Short-term activities must be completed as quickly as possible, and practices must be installed immediately after the activity is completed. However, these practices must be installed before the next precipitation event even if the activity is not complete.

Temporary sediment control devices for this project will primarily include the following:

Silt fence for primary perimeter control
Biorolls for secondary perimeter control
Storm drain inlet protection
Stabilized construction exits

The contractor/ECS must plan for, and implement, appropriate construction phasing, vegetative buffer strips, horizontal slope grading, and other construction practices that minimize erosion. The location of areas not to be disturbed must be delineated (marked) on site prior to construction.

All disturbed/exposed soil areas must be stabilized as soon as possible to limit soil erosion but in no case later than fourteen days after the construction activity in that portion of the site has temporarily or permanently ceased.

Temporary erosion control shall consist of the following:

MnDOT seed mixture Oats (O) at 100 lbs per acre
Fertilizer Type 1 (10-10-20) at 200 lbs per acre
Mulch type 3 at 2 tons per acre

All storm drain inlets must be protected by appropriate BMPs during construction until all sources with potential for discharging to the inlet have been stabilized. Inlet protection may be removed if a specific safety concern has been identified and the procedure as described in the NPDES permit is followed.

Temporary soil stockpiles must have silt fence or other effective sediment controls and cannot be placed in surface waters, including storm water conveyances such as curb and gutter systems or ditches.

Vehicle tracking of sediment from the construction site must be minimized by BMPs such as stone or wood chip pads, concrete or steel wash racks, or equivalent systems. Street sweeping with collection must be used if such BMPs are not adequate to prevent sediment tracking.

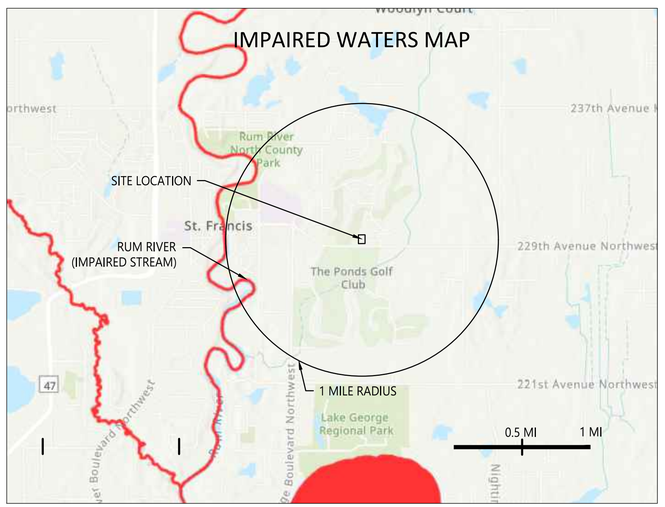
Dewatering related to the construction activity must comply with the NPDES permit. Dewatering discharge that may have turbid or sediment laden discharge must be discharged to a temporary or permanent sedimentation basin on the project site whenever possible, and BMPs must be implemented to prevent water containing sediment or other pollutants from being discharged to surface waters or downstream properties.

Contractor may construct temporary sedimentation basins in accordance with the NPDES permit.

The normal wetted perimeter of any temporary or permanent drainage ditch or swale that drains water from any portion of the construction site, or diverts water around the construction site, must be stabilized within 200 lineal feet from the property edge or from the discharge into any surface water. Stabilization must be completed within 24 hours after connecting to surface water.

Pipe outlets must be provided with temporary or permanent energy dissipation within 24 hours after connecting to a surface water.

Permanent erosion control shall consist of the following:
Fertilizer type 1 (20-10-20) at 350 lbs per acre
Mulch type 1 at 2 tons per acre



EROSION CONTROL SUPERVISOR REQUIREMENTS:
The contractor must identify an Erosion Control Supervisor (ECS) who is knowledgeable and experienced in the application of erosion and sediment control Best Management Practices (BMPs). The ECS must work with the contractor to oversee and implement the SWPPP and the installation, inspection, and maintenance of erosion and sediment control BMPs before, during, and after construction.

The contractor/ECS is required to comply with all applicable training requirements of the NPDES permit. The permittee(s) shall ensure that employees are properly trained with certification proof. The contractor/ECS shall develop a chain of responsibility with all operators on the site to ensure that the SWPPP will be implemented and stay in effect until the project site has undergone permit termination.

The contractor/ECS must routinely inspect the entire construction site at least once every seven days during active construction and within 24 hours after a rainfall event greater than 0.5 inch in 24 hours. The contractor/ECS shall take immediate action to eliminate any deficiencies found during these inspections. Inspections, maintenance, and documentation must be in accordance with the NPDES permit. Copies of the inspection records must be submitted to the engineer.

The contractor/ECS must amend the SWPPP as necessary to include additional requirements, such as additional or modified BMPs, designed to correct problems or address situations in accordance with the NPDES permit. The contractor shall have a petroleum release plan and have all necessary materials on hand to implement the plan. All employees shall be trained in implementation of the plan. The MPCA must be informed of any petroleum spills greater than five gallons.

TMDL IMPLEMENTATION PLANS CONTAINING STORM WATER REQUIREMENTS:
No TMDL Implementation Plans are currently available for the project's receiving waters.

LONG TERM MAINTENANCE:
Long term maintenance of the permanent storm water management system will be performed by the owner. Infiltration basins shall be inspected and maintained annually and cleaned and restored to design grade after one half the storage volume has been filled with sediment. Inlets and outlets shall be monitored and repaired for any erosion or defects that may develop.

CONSTRUCTION PRACTICES TO MINIMIZE STORM WATER AND OTHER POLLUTANT CONTAMINATION:
- Each contractor on site is individually responsible for maintaining a clean and safe work environment.
- Stockpiles should be constructed away from slopes and natural drainage ways and have sediment controls at the base.
- Collected solid waste, sediment, asphalt and concrete millings, floating debris, paper, p[lastic, fabric, construction demolition debris, and other wastes must be disposed of properly and must comply with MPCA disposal requirements.
- No construction materials can be buried on site.
- Licensed sanitary waste management handler must dispose of sanitary waste.
- Fertilizers must be stored in covered locations.
- Restricted access to chemical storage areas must be provided to prevent vandalism.
- All chemicals must be stored in locked containers when not in use.
- Oil, gasoline, paint, and other hazardous substances must be properly stored, including secondary containment, to prevent spills, leaks, or other discharges.
- Storage and disposal of hazardous waste must be in compliance with MPCA regulations.
- Vehicles must be monitored for leaks and preventative maintenance scheduled.
- Spill kits must be available during equipment fueling and maintenance operations.
- External washing of construction vehicles must be limited to a defined area of the site. Runoff must be contained and waste properly disposed of. No engine degreasing is allowed on site.
- Asphalt substances must be applied according to manufacturers recommendations.
- Spray guns must be cleaned on removable surfaces such as tarpaulins.
- Contractor/ECS must make a spill response plan before the application of any chemical that may be harmful to the environment.
- All spills must be reported immediately. Spill clean-up materials must be available on site. Material shall include but not limited to brooms, mops, rags, gloves, absorbent material, sand, plastic and metal containers. Spills that reach storm sewer conveyance systems connected to public waters must be immediately reported to the State Duty Officer.
- Contractor must control weeds on the entire project site.
- Form release oil must be applied over a pallet covered with absorbent material to collect excess fluid. The absorbent material shall be replaced when saturated.
- Dust control must be provided as conditions warrant.
- If this project is not stabilized before winter conditions, it shall be the contractor's responsibility to ensure sediment does not reach public waters. A written plan of this activity shall be presented to the engineer one month prior before expected project shut-down for the season occurs. This plan shall include dates of BMP employment, duration of BMPs employed, and schedule of subsequent BMPs employed.
- All liquid and solid wastes generated by concrete washout operations must be contained in a leak-proof containment facility or impermeable liner. The liquid and solid wastes must not contact the ground and not runoff from the concrete washout operations area. A sign must be installed adjacent to the washout facility to inform concrete equipment operators to utilize the proper facilities.
- PER MPCA CONSTRUCTION STORMWATER PERMIT:
  - 23.9 - Permittees must immediately initiate stabilization of exposed soil areas, as described in item 8.5 & 8.8, and complete the stabilization within seven (7) calendar days after the construction activity in that portion of the site temporarily or permanently ceases. [Minn. R. 7090]
  - 23.10 - Permittees must provide a temporary sediment basin as described in Section 14 for common drainage locations that serve an area with five (5) or more acres disturbed at one time. [Minn. R. 7090]

*Refer to MPCA - Authorization to Discharge Stormwater Associated with Construction Activity Under the National Pollutant Discharge Elimination System (NPDES)/ State Disposal System (SDS) Program - MNR10001

SWPPP AMENDMENTS:

1. _____
2. _____
3. _____
4. _____
5. _____

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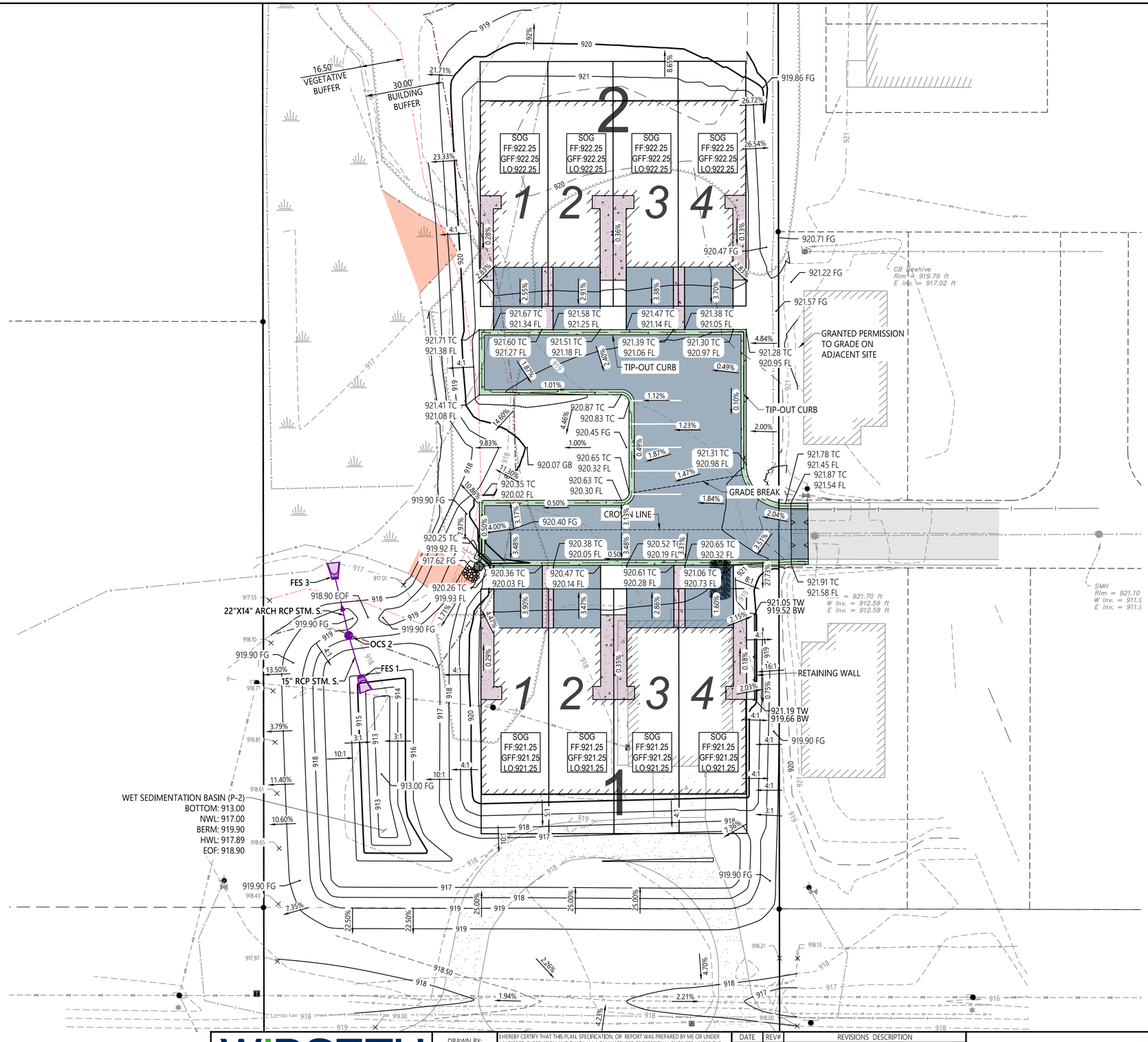
TURTLE PONDS 6TH ADDITION

SWPPP NARRATIVE

C6.01

PROJECT #: 2026-10089

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TOPOGRAPHIC INFORMATION - PROPOSED

- 1230 — MAJOR CONTOURS (WITH LABEL)
- 1234 — MINOR CONTOURS (WITH LABEL)
- 1234.56 — SPOT ELEVATION
- +-1.23% — SLOPE - PERCENT
- 1:2 — SLOPE - RISE : RUN
- TBC: 1234.56 / FLW: 1234.06 — SPOT ELEVATIONS @ CURB (TBC: TOP BACK CURB / FLW: CURB FLOWLINE)
- +1.23 + -3.21 — SPOT ELEVATIONS, CUT/FILL (GREEN: FILL DEPTH / RED: CUT DEPTH)

TOPOGRAPHIC INFORMATION - EXISTING

- 1230 — MAJOR CONTOURS
- 1234 — MINOR CONTOURS
- + 1234.56 — SPOT ELEVATION

GENERAL GRADING NOTES

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-.2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
- ALL CONSTRUCTION SHALL CONFORM TO LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS.
- SPOT ELEVATIONS SHOWN INDICATE FINISHED GRADE ELEVATIONS, GUTTER FLOW LINE OF CURB GUTTER (FL), BACK OF CURB ELEVATIONS (TC), TOP OF SIDEWALK (TW), AND FINISHED SURFACE GRADE (FG), UNLESS OTHERWISE NOTED.
- ALL SLOPES SHALL BE GRADED TO 3:1 OR FLATTER, UNLESS OTHERWISE NOTED ON THE PLANS.
- THE CONTRACTOR SHALL NOTE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD REPRESENTED WITHIN THE PLANS AS SHOWN AND ALERT THE ENGINEER BEFORE BIDDING THE PROJECT AND BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL UTILITIES WHICH MAY AFFECT THIS WORK AND NOTIFY THE OWNER OF ANY CHANGES. CONTACT LOCAL UTILITY COMPANIES FOR EXACT LOCATIONS PRIOR TO BIDDING THE PROJECT AND COMMENCING WORK.
- CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT SILT AND DEBRIS RUN-OFF DURING GRADING OPERATIONS (I.E. SILT FENCE, STRAW BALES, ETC.).
- CONTRACTOR SHALL VERIFY CRITICAL ELEVATIONS TO ENSURE CONFORMANCE WITH GRADING PLAN, PARTICULARLY WITH EXISTING STRUCTURES AND/OR PAVEMENTS TO REMAIN. MEET EXISTING GRADES ALONG STREETS, PROPERTY LINES, AND DRIVEWAY ENTRANCES. RESTORE ALL PAVEMENTS THAT REMAIN TO THEIR ORIGINAL IF NOT BETTER CONDITION. NOTIFY OWNER OF ANY CONFLICTS PRIOR TO BIDDING THE PROJECT.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES OF CUT, FILL AND WASTE MATERIALS TO BE HANDLED, AND FOR AMOUNT OF GRADING TO BE DONE IN ORDER TO COMPLETELY PERFORM ALL WORK INDICATED ON THE DRAWINGS. IMPORT SUITABLE MATERIAL AND EXPORT UNSUITABLE / EXCESS / WASTE MATERIAL AS REQUIRED. ALL COSTS ASSOCIATED WITH IMPORTING AND EXPORTING MATERIALS SHALL BE INCIDENTAL TO THE CONTRACT.
- CONTRACTOR SHALL MAINTAIN DRAINAGE FROM EXISTING & NEW BUILDING AT ALL TIMES. PROVIDE TEMPORARY STORM SEWER (INCLUDING, BUT NOT LIMITED TO, CATCH BASINS, MANHOLES, PIPING, ETC.) AS REQUIRED. EXISTING STORM SEWER SHALL NOT BE REMOVED UNTIL TEMPORARY OR PERMANENT STORM SEWER IS INSTALLED AND FUNCTIONAL. COORDINATE ALL REMOVALS WITH APPROPRIATE TRADES (SITE UTILITY CONTRACTOR, ETC.) AS REQUIRED.
- SEE PLAN LEGEND FOR A COMPLETE LIST OF HATCHES AND SYMBOLS USED FOR GRADING.

CUT/FILL VOLUME TABLE		
ITEM	**VALUE**	
CUT VOLUME (UNADJUSTED)	560	CU.YD.
FILL VOLUME (UNADJUSTED)	3319	CU.YD.
CUT FACTOR	1.0	
FILL FACTOR	1.0	
ADJUSTED CUT VOLUME[1]	560	CU.YD
ADJUSTED FILL VOLUME[2]	3319	CU.YD.
TOTAL CUT/FILL VOLUME[3]	2759	CU.YD.

[1] ADJUSTED CUT VOLUME = CUT VOLUME x CUT FACTOR

[2] ADJUSTED FILL VOLUME = FILL VOLUME x FILL FACTOR

[3] NEGATIVE NUMBER (-123, ETC.) DENOTES VOLUME OF MATERIAL TO BE REMOVED FROM THE SITE; POSITIVE (123, ETC.) DENOTES VOLUME OF MATERIAL TO BE DELIVERED TO THE SITE.

HOLDDOWN TABLE		
ITEM	**VALUE**	
TOTAL IMPERVIOUS AREA	24582	SQ.FT.
ASSUMED SUBGRADE	2	FT
TOTAL IMPERVIOUS HOLDDOWN	1820.9	CU.YD
ADJUSTED CUT/FILL		
ITEM	**VALUE**	
TOTAL CUT/FILL VOLUME[3]	2759	CU.YD.
TOTAL IMPERVIOUS HOLDDWON	1821	CU.YD.
TOTAL ADJUST CUT/FILL VOLUME	938.3	CU. YD

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TURTLE PONDS 6TH ADDITION

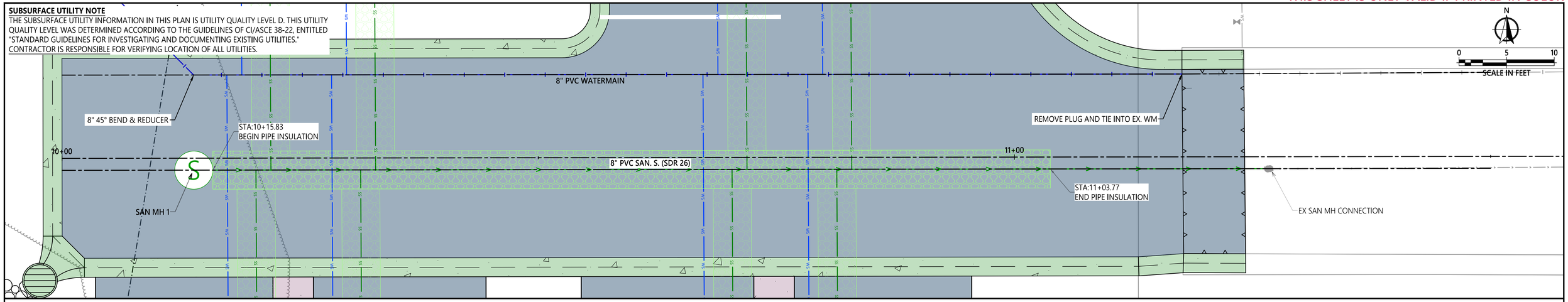
GRADING PLAN

C7.01

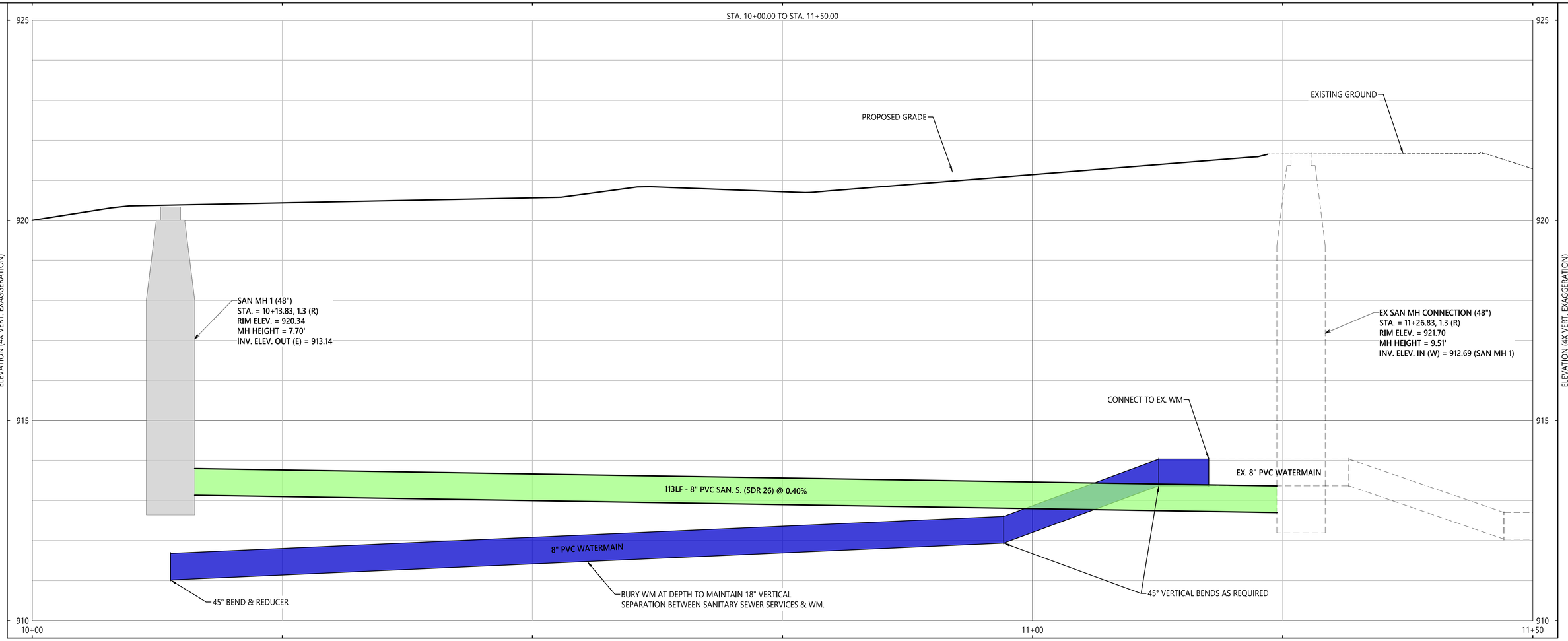
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SUBSURFACE UTILITY NOTE
THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES." CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION OF ALL UTILITIES.



PLAN & PROFILE



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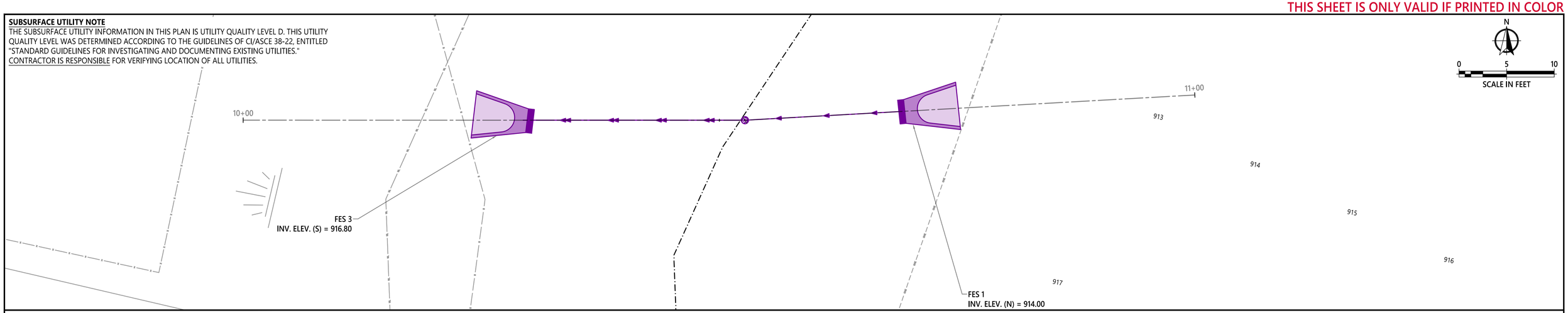
PLAN & PROFILE

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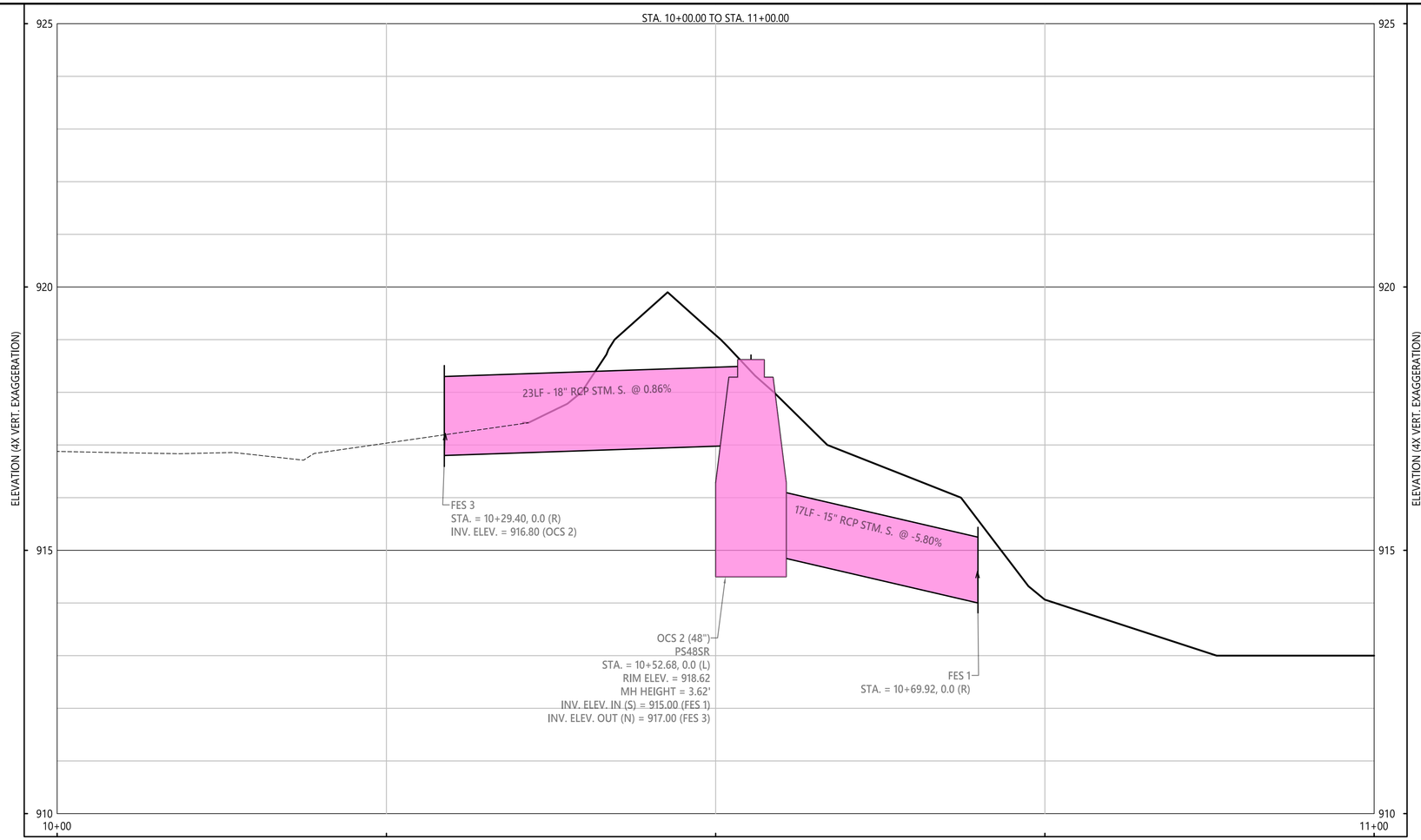
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TURTLE PONDS 6TH ADDITION

PLAN & PROFILE

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EROSION CONTROL LEGEND

- SURFACE DRAINAGE FLOW DIRECTION ARROW
- RANDOM RIPRAP (SEE CALLOUT FOR CLASS)
- REMAINING SEEDING AREA
- POND SEEDING AREA
- WETLAND BUFFER SEEDING AREA
- SILT FENCE, TYPE MS
- STORM DRAIN INLET PROTECTION
- STABILIZED CONSTRUCTION EXIT
- ROLLED EROSION PREVENTION (SEE CALLOUT FOR CATEGORY)

GENERAL EROSION CONTROL NOTES

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-.2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
- ALL CONSTRUCTION SHALL CONFORM TO LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPPDES) PERMIT REQUIREMENTS.
- ALL SILT FENCE AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY EXCAVATION/CONSTRUCTION AND SHALL BE MAINTAINED UNTIL VIABLE TURF OR GROUND COVER HAS BEEN ESTABLISHED. MAINTENANCE AND REMOVAL OF SEDIMENT CONTROL DEVICES SHALL BE INCIDENTAL TO THE GRADING CONTRACT.
- ALL STREETS UTILIZED FOR PROJECT CONSTRUCTION MUST BE CLEANED AT THE END OF EACH DAY. A ROCK ENTRANCE TO THE SITE MUST BE PROVIDED ACCORDING TO THE DETAILS TO REDUCE TRACKING OF SEDIMENT ONTO PUBLIC STREETS. STREET SWEEPING MAY BE NECESSARY AND WILL BE CONSIDERED INCIDENTAL.
- ALL EXPOSED SOILS MUST BE STABILIZED WITHIN 7 CALENDAR DAYS OF ROUGH GRADE COMPLETION OF AFTER CONSTRUCTION TERMINATES. ALL STOCKPILES SHALL HAVE ADEQUATE SEDIMENT TRAPPING SYSTEMS INSTALLED AROUND THEM.
- ALL AREAS TO BE ESTABLISHED TO GRASS COVER SHALL RECEIVE 4" OF TOPSOIL AND SEED. THESE AREAS SHALL BE WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- INLET PROTECTION SHALL BE INSTALLED AT ALL STORM SEWER INLETS WHICH HAVE A POTENTIAL TO RECEIVE RUNOFF FROM THE CONSTRUCTION SITE.
- CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT SILT AND DEBRIS RUN-OFF DURING GRADING OPERATIONS (I.E. SILT FENCE, STRAW BALES, ETC.).
- FAILURE OF TURF ESTABLISHMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, THE CONTRACTOR SHALL RE-SEED ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.
- SEE PLAN LEGEND FOR A COMPLETE LIST OF HATCHES AND SYMBOLS USED FOR EROSION CONTROL.
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED AND VEGETATED AS SOON AS POSSIBLE. ANY FINISHED AREAS SHALL BE SEEDED AND MULCHED WITHIN 7 DAYS AFTER FINISHED GRADING IS COMPLETED IN ACCORDANCE TO MN/DOT 2575.
- ALL DISTURBED AREAS SHALL BE REVEGETATED WITH MN/DOT SEED MIX, MULCHED, FERTILIZED & DISK ANCHORED, PER THE FOLLOWING SCHEDULE:

FERTILIZER 22-5-10:	350 LB/AC.
MULCH MATERIAL TYPE 3 (200%):	2 TONS/AC.
WET DITCH SEED MIX:	20 LB/AC.
NATIVE CONSTRUCTION SEED MIX:	37.6 LB/AC.
SOUTHERN BOULEVARD SEED MIX:	160 LB/AC.

- CONTRACTOR SHALL INSTALL TEMPORARY SEDIMENT BMP'S SHOWN AND NOT SHOWN ON PLANS DURING PHASING ON PROJECT TO COMPLY WITH MPCA, CITY INSPECTOR AND DEVELOPER REQUEST.

GENERAL EROSION CONTROL QUANTITIES

• EROSION CONTROL ENTRANCE:	2	EACH
• INLET PROTECTION:	1	EACH
• TEMPORARY SILT FENCE, MS:	1840	LF
• TEMPORARY BIO-ROLL:	11	LF
• POND SEEDING AREA (WET DITCH):	0.14	ACRE
• BUFFER SEEDING AREA (NATIVE):	0.04	ACRE
• REMAINING SEEDING AREA (SO. BLVD.):	0.38	ACRE
• EROSION CONTROL BLANKET, 3N:	713	SY
• RIP RAP, CL III:	20	CY

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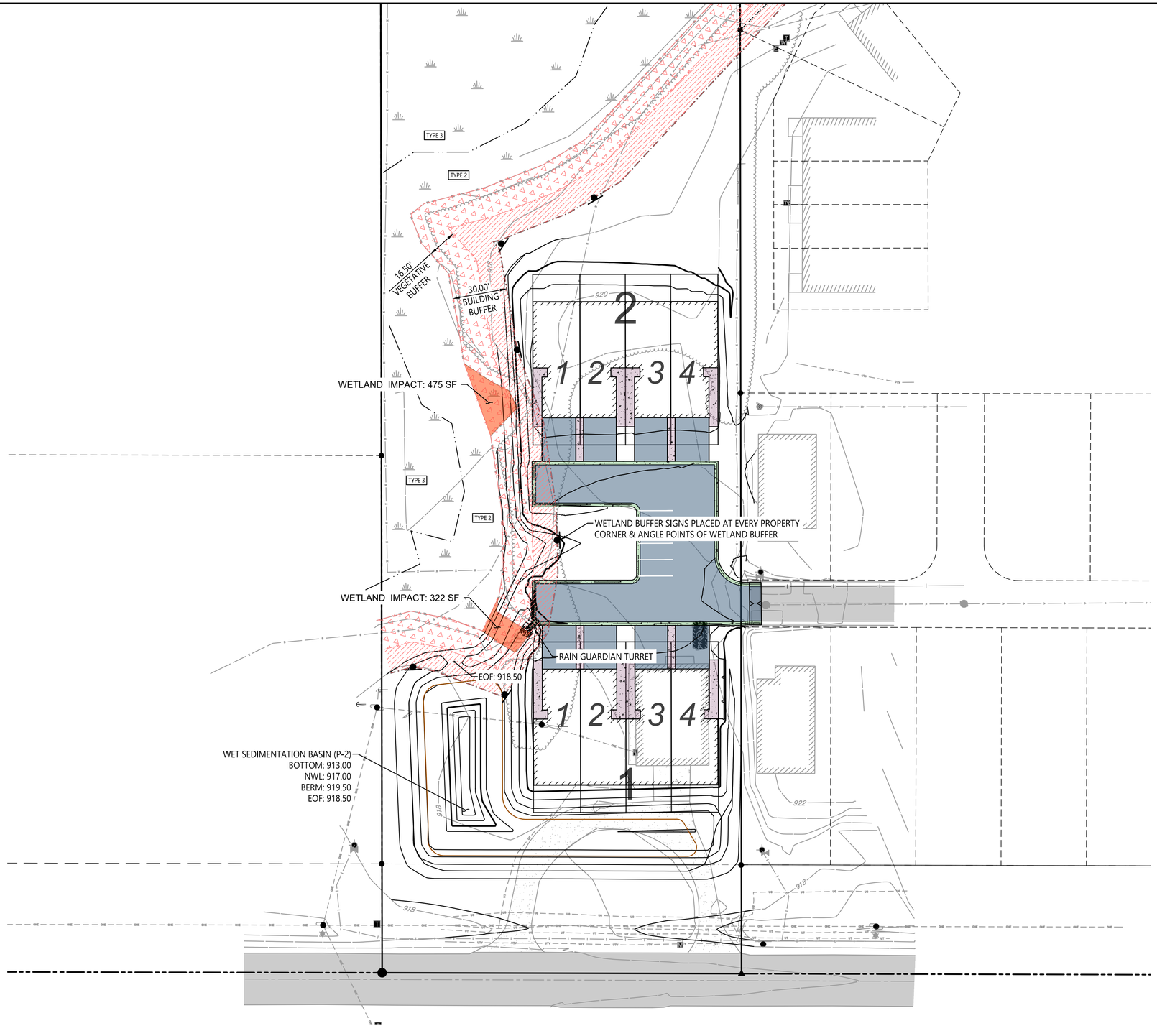
TURTLE PONDS 6TH ADDITION

EROSION CONTROL PLAN

C9.01

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WETLAND MANAGEMENT LEGEND

- WETLAND VEGETATION BUFFER
- WETLAND BUILDING BUFFER

WETLAND MANAGEMENT NOTES

- PHASING OF CONSTRUCTION: CONTRACTOR SHALL PROVIDE THE CITY WITH A SCHEDULE OF THE CONSTRUCTION ACTIVITIES IN THE VICINITY OF THE WETLANDS PRIOR TO START OF CONSTRUCTION.
- INSPECTIONS OF THE WETLAND MANAGEMENT PLAN MEASURES. AT A MINIMUM SUCH INSPECTIONS SHALL BE DONE MONTHLY TO ASSURE PROTECTION OF THE WETLAND AND SURROUNDING BUFFER.
- PERMANENT STABILIZATION: THE PLAN SHALL ESTABLISH THE MANNER IN WHICH BUFFER AREAS WILL BE STABILIZED AFTER CONSTRUCTION IS COMPLETED, INCLUDING BUFFER WIDTH AND TYPE OF VEGETATION, SPECIFICATIONS, TIME FRAMES OR SCHEDULES, AND MAINTENANCE PROCEDURES.
- THE APPLICANT AND/OR PROPERTY OWNER SHALL MAINTAIN THE BUFFER STRIP. ALL BUFFER STRIPS SHALL BE MARKED AS SUCH WITH PERMANENT SIGNS.
- MINIMUM WETLAND MANAGEMENT PLAN MEASURES AND INSPECTION. THESE MINIMUM CONTROL MEASURES ARE REQUIRED WHERE LAND DISTURBANCE ACTIVITIES ARE ADJACENT TO WETLANDS. DUE TO THE DIVERSITY OF INDIVIDUAL CONSTRUCTION SITES, EACH SITE WILL BE INDIVIDUALLY EVALUATED. WHERE ADDITIONAL CONTROL MEASURES ARE NEEDED, THEY WILL BE SPECIFIED AT THE DISCRETION OF THE CITY ENGINEER.
- ALL GRADING PLANS AND BUILDING SITE SURVEYS SHALL BE REVIEWED BY THE CITY FOR EFFECTIVENESS OF EROSION CONTROL MEASURES PROTECTING THE WETLAND IN THE CONTEXT OF THE SITE TOPOGRAPHY AND DRAINAGE.
- SEDIMENT CONTROL MEASURES SHALL BE PROPERLY INSTALLED BY THE APPLICANT/CONTRACTOR BEFORE CONSTRUCTION ACTIVITY BEGINS. SUCH STRUCTURES MAY BE ADJUSTED DURING DRY WEATHER TO ACCOMMODATE SHORT TERM ACTIVITIES, SUCH AS THOSE THAT REQUIRE VERY LARGE VEHICLES. AS SOON AS THIS ACTIVITY IS FINISHED OR BEFORE RAINFALL, THE EROSION AND SEDIMENT CONTROL STRUCTURES MUST BE RETURNED TO THE CONFIGURATION SPECIFIED BY THE CITY. AN INSPECTION TO CONFIRM COMPLIANCE SHALL BE SCHEDULED, AND PASSED BEFORE A FOOTING INSPECTION WILL BE DONE.
- MINIMIZE AMOUNT OF EXPOSED SOIL AND DISTURBANCE OF VEGETATION ADJACENT TO WETLANDS TO PROVIDE WIDER BUFFERS THROUGH THE MAJORITY OF CONSTRUCTION.
- LOCATE STOCKPILES IN AREAS A SAFE DISTANCE FROM EXISTING WETLANDS AND OTHER NATIVE BUFFER AREAS.
- MONTHLY INSPECTIONS OF ALL WETLAND BUFFERS WILL BE REQUIRED WHEN CONSTRUCTION ACTIVITIES ARE OCCURRING TO ASSIST IN PRESERVING THE BUFFER AREA AND ASSURING PROPER ESTABLISHMENT/PRESERVATION OF THE VEGETATION. FOLLOW-UP INSPECTIONS MUST BE PERFORMED BY THE CITY ON A REGULAR BASIS TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE PROPERLY INSTALLED AND MAINTAINED. IN ALL CASES THE INSPECTORS WILL ATTEMPT TO WORK WITH THE APPLICANT AND/OR BUILDER TO MAINTAIN PROPER EROSION AND SEDIMENT CONTROL AT ALL SITES. IN CASES WHERE COOPERATION IS WITHHELD, A STOP WORK ORDER MAY BE ISSUED BY THE CITY ENGINEER OR BUILDING OFFICIAL, UNTIL EROSION AND SEDIMENT CONTROL MEASURES MEET SPECIFICATIONS. A SECOND EROSION AND SEDIMENT CONTROL/GRADING INSPECTION MUST THEN BE SCHEDULED AND PASSED BEFORE THE FINAL INSPECTION WILL BE DONE.

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TURTLE PONDS 6TH ADDITION

WETLAND MANAGEMENT

C10.01

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LANDSCAPE PLANTING REQUIREMENTS

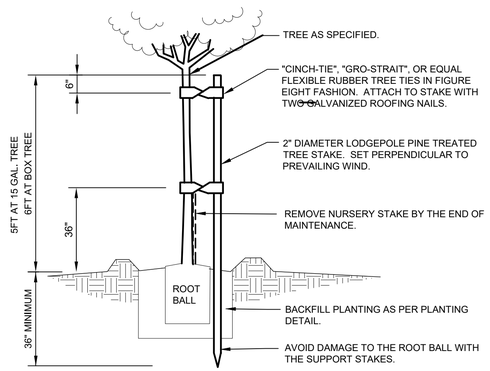
LANDSCAPE REQUIREMENTS/PERFROMANCE STANDARDS : 10-73-04 REQ. LANDSCAPING

Design Standards	Total gross square footage of all floors	Canopy Plantings: Total square Footage/ 320	Canopy Plantings: # Required in Caliper Inches	Minimum Deciduous Tree (25%)	Minimum Evergreen Tree (25%)	Minimum Ornamental Tree (10%)
Multi-Unit						
	18,972		59	8	8	3
Total			59			

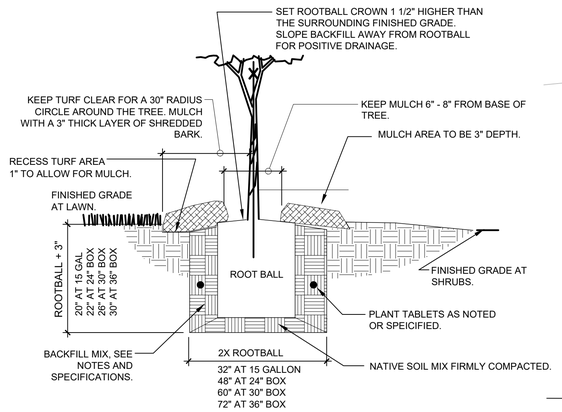
Notes:
All trees are to be a minimum of 10' from any underground utilities and 25' from hydrants.

PROPOSED LANDSCAPE PLAN

Total Canopy & Evergreen Trees Required	30	
Total Canopy Trees Planned	30	



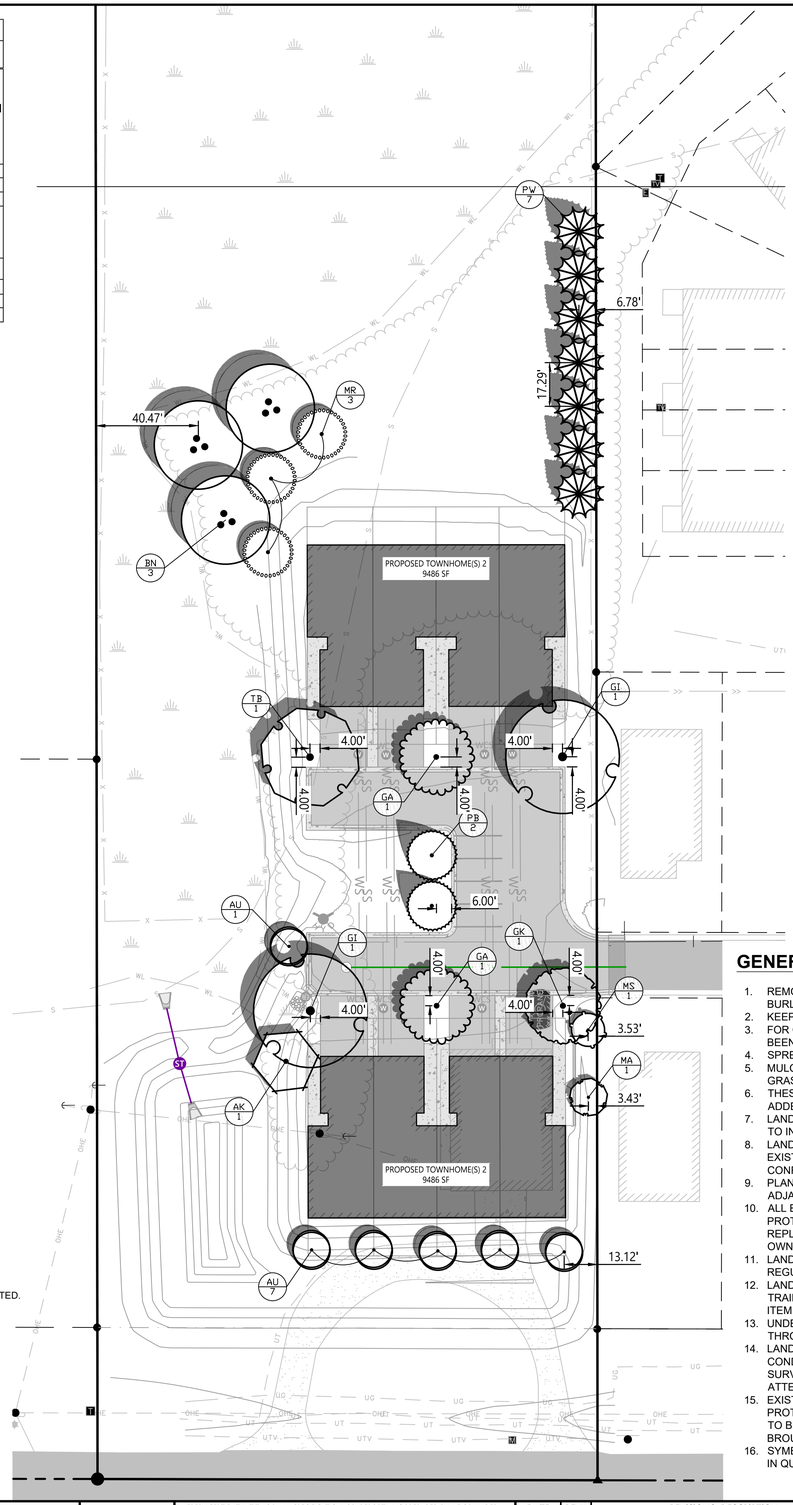
STAKING DETAIL



PLANT PIT DETAIL

1 TREE SINGLE STAKE PLANTING

3/8" = 1'-0" P-RE-HOM-HOME-01



PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY
TREES					
	BN	BETULA NIGRA / RIVER BIRCH MULTI-TRUNK	2" CAL.	B&B	3
	GA	GINKGO BILOBA 'AUTUMN GOLD' / AUTUMN GOLD MAIDENHAIR TREE MALE VARIETY	2" CAL.	B&B	2
	GI	GLEDITSIA TRIACANTHOS INERMIS / THORNLESS HONEY LOCUST	2" CAL.	B&B	2
	GK	GYMNOCLADUS DIOICUS / KENTUCKY COFFEETREE	2" CAL.	B&B	1
	TB	TILIA AMERICANA 'BOULEVARD' / BOULEVARD AMERICAN LINDEN	2" CAL.	B&B	1
EVERGREEN TREES					
	PB	PICEA PUNGENS GLAUCA / COLORADO BLUE SPRUCE POT SIZE MIN. 10 GAL.	6` HT.	POT	2
	PW	PINUS ALBA / WHITE PINE POT SIZE MIN. 10 GAL.	6` HT.	POT	7
ORNAMENTAL TREE					
	AK	ACER PSEUDOSIEBOLDIANUM / KOREAN MAPLE	2" CAL.	B&B	1
	AU	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' / AUTUMN BRILLIANCE SERVICEBERRY	2" CAL.	B&B	6
	MA	MALUS X 'ADIRONDACK' / ADIRONDACK CRABAPPLE	2" CAL.	B&B	1
	MR	MALUS X 'ROYALTY' / ROYALTY CRABAPPLE	2" CAL.	B&B	3
	MS	MALUS X 'SPRING SNOW' / SPRING SNOW CRABAPPLE	2" CAL.	B&B	1

GENERAL NOTES

1. REMOVE ALL BURLAP FROM THE TOP OF ROOT BALL. REMOVE ALL GREEN TREATED BURLAP. REMOVE ALL PLANT IDENTIFICATION TAGS FROM ALL PLANT MATERIALS.
2. KEEP ALL PLANT MATERIALS MOIST AND SHADED UNTIL PLANTED.
3. FOR CONTAINER PLANTS: MAKE 4 TO 5 VERTICAL CUTS IN ROOT BALL AFTER PLANT HAS BEEN REMOVED. MAKE CUTS 1/2" DEEP. PLANT IMMEDIATELY.
4. SPREAD MULCH SO THAT IT IS NOT IN CONTACT WITH WOODY BASE OF PLANT.
5. MULCH AT BASE OF TREES 5'-0" DIAMETER RING WHERE TREES ARE LOCATED IN OPEN GRASS AREAS.
6. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
7. LANDSCAPE CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
8. LANDSCAPE CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF ALL EXISTING AND FUTURE UNDERGROUND SERVICES AND IMPROVEMENTS WHICH MAY CONFLICT WITH WORK TO BE DONE.
9. PLANT MATERIAL SHALL NOT BE INSTALLED IN AN AREA WHICH WILL CAUSE HARM TO ADJACENT STRUCTURES. NOTIFY THE ARCHITECT SHOULD CONFLICTS ARISE.
10. ALL EXISTING TREES, SHRUBS, VINES AND GROUND COVERS TO REMAIN SHALL BE PROTECTED. ANY DAMAGE CAUSED BY CONTRACTOR'S WORK OR NEGLIGENCE SHALL BE REPLACED OR REPAIRED AT THE CONTRACTORS EXPENSE TO THE SATISFACTION OF THE OWNER.
11. LANDSCAPE CONTRACTOR SHALL ASSURE COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK AND MATERIALS SUPPLIED.
12. LANDSCAPE CONTRACTOR SHALL PROTECT EXISTING ROADS, CURB AND GUTTER, TRAILS, TREES, LAWNS AND SITE ELEMENTS DURING CONSTRUCTION. DAMAGE TO THESE ITEM SHALL BE REPAIRED AT NO COST TO OWNER.
13. UNDERGROUND SERVICES SHALL BE INSTALLED SO THAT TRENCHES DO NOT CUT THROUGH ROOT SYSTEMS OF EXISTING TREES TO REMAIN.
14. LANDSCAPE CONTRACTOR SHALL REVIEW THE SITE FOR DEFICIENCIES IN SITE CONDITIONS WHICH MIGHT NEGATIVELY AFFECT PLANT MATERIALS ESTABLISHMENT, SURVIVAL OR WARRANTY. UNDESIRABLE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BEGINNING OF WORK.
15. EXISTING TREES OR SIGNIFICANT SHRUB MASSING FOUND ON SITE SHALL BE PROTECTED AND SAVED UNLESS NOTED TO BE REMOVED OR ARE LOCATED IN AN AREA TO BE GRADED. QUESTIONS REGARDING EXISTING PLANT MATERIALS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO REMOVAL.
16. SYMBOLS ON PLAN DRAWING TAKE PRECEDENCE OVER SCHEDULES IF DISCREPANCIES IN QUANTITIES EXIST. DETAILS TAKE PRECEDENCE OVER NOTES.

PLANTING NOTES

1. LANDSCAPE CONTRACTOR SHALL LAY OUT PLANT MATERIAL PER PLAN AND FACE TO GIVE BEST APPEARANCE OR RELATION TO ADJACENT PLANTS, STRUCTURES OR VIEWS. CONTRACTOR TO OBTAIN APPROVAL FROM ARCHITECT PRIOR TO INSTALLATION.
2. PLANT LOCATIONS ARE DIAGRAMMATIC AND MAY BE ADJUSTED IN THE FIELD AT THE ARCHITECT'S REQUEST PRIOR TO INSTALLATION. OBTAIN APPROVAL OF PLANT LAYOUT FROM ARCHITECT PRIOR TO PLANTING.
3. ALL NEWLY PLANTED MATERIAL SHALL BE THOROUGHLY SOAKED WITH WATER WITHIN 3 HOURS OF PLANTING.
4. THIRTY DAYS AFTER PLANTING, CONTRACTOR SHALL RE-STAKE AND STRAIGHTEN TREES AS NECESSARY.
5. LANDSCAPE CONTRACTOR SHALL THOROUGHLY LOOSEN ANY COMPACTED SUBGRADES PRIOR TO PLACING TOPSOIL, TO A MINIMUM DEPTH OF 10". ROLL SUBGRADES TO PREVENT SETTLING.
6. CONTRACTOR WILL RE-USE EXISTING TOPSOIL FROM SITE AND BRING TO FINISH GRADE WITH 4" OF TOPSOIL IN ALL LAWN AREAS, AND 12" OF TOPSOIL IN ALL PLANTING BED NOT ADJACENT TO BUILDING.
7. LANDSCAPE CONTRACTOR SHALL REMOVE SOD, CONTAMINATED SOILS, MISCELLANEOUS WASTE MATERIALS FROM AREAS TO BE PLANTED AND SEEDED. CONTRACTOR SHALL LOOSEN COMPACTED SUBSOILS BY TILLING AND IMPORT NEW TOPSOIL AS REQUIRED TO RESTORE GRADES AND MAINTAIN POSITIVE DRAINAGE AWAY FROM THE BUILDING. VERIFY FINAL LIMITS OF AREAS WITH ARCHITECT PRIOR TO COMMENCING. OPERATIONS.
8. KEEP ALL PLANT MATERIALS MOIST AND SHADED UNTIL PLANTED.
9. NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL IS GRANTED BY THE ARCHITECT TO THE LANDSCAPE CONTRACTOR PRIOR TO THE SUBMISSION OF BID.
10. LANDSCAPE CONTRACTOR SHALL WARRANTY NEW PLANT MATERIAL THROUGH ONE CALENDAR YEARS FROM DATE OF SUBSTANTIAL COMPLETION.
11. CONTRACTOR SHALL HAVE SUFFICIENT WATERING EQUIPMENT AND/OR FORCES AVAILABLE TO COMPLETELY WATER ALL PLANT MATERIALS ONCE EACH WEEK THROUGH THE WARRANTY PERIOD. WATERING INTERVALS SHALL BE VARIED AND BASED ON PREVAILING MOISTURE AND WEATHER CONDITIONS.

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SCALE IN FEET

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WIDSETH
ARCHITECTS ▪ ENGINEERS ▪ SCIENTISTS ▪ SURVEYORS

DRAWN BY: RSH
CHECKED BY: JER

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

JILLIAN E. REINER LIC. NO.: 55038 DATE: 09/18/2026

DATE	REV#	REVISIONS DESCRIPTION

TURTLE PONDS 6TH ADDITION

LANDSCAPE PLAN

L1.01

PROJECT #: 2026-10089