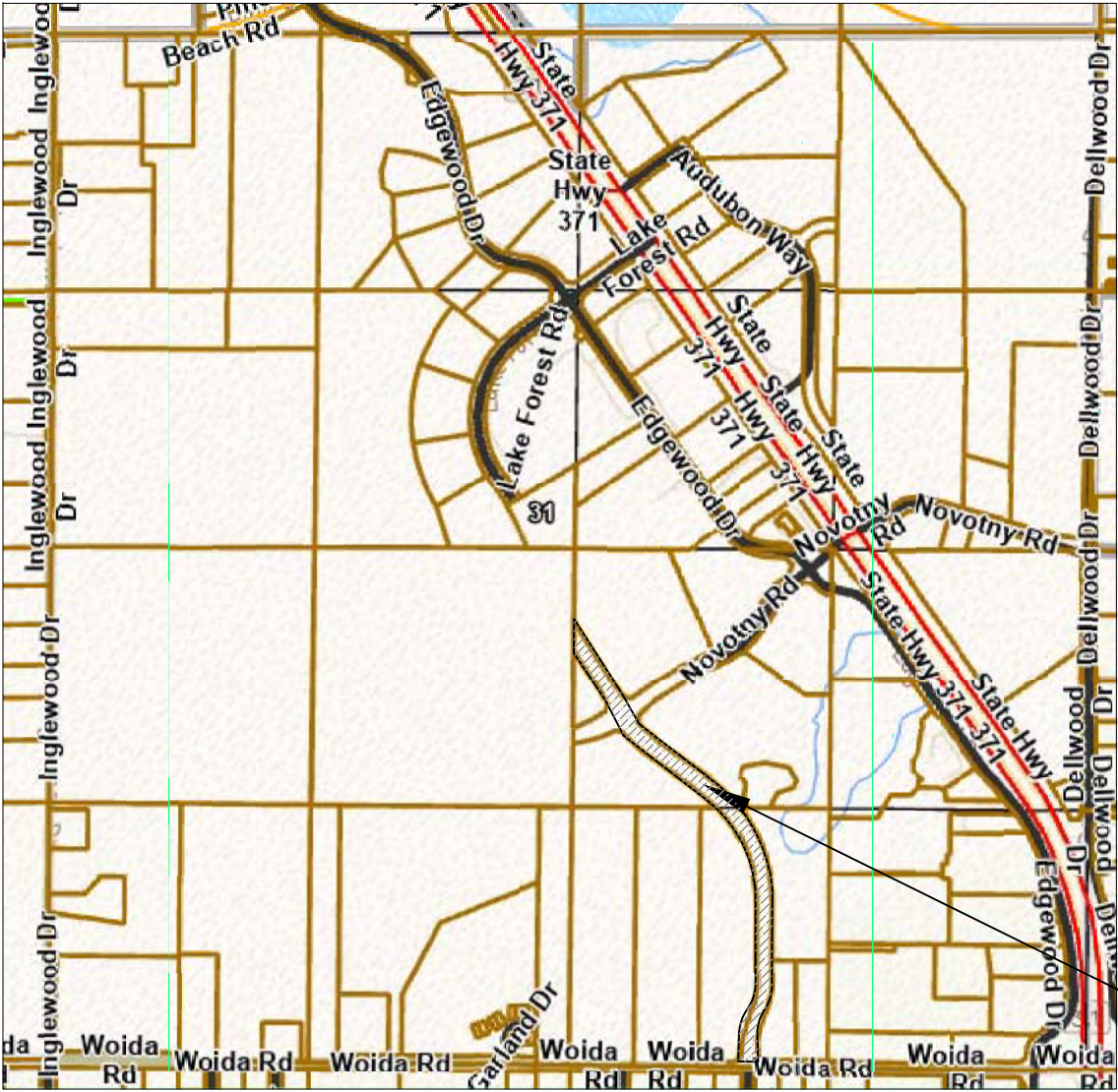


2026 LAKE FOREST ROAD IMPROVEMENTS PROJECT

CONSTRUCTION PLANS FOR:
SANITARY SEWER, WATERMAIN, STORM SEWER & STREET IMPROVEMENTS
BAXTER, MINNESOTA
STARK ENGINEERING PROJECT #25-136



SCALE: 1" = 1000'

SHEET INDEX

SHEET #	SHEET TITLE
C1	TITLE SHEET
C2	TYPICAL SECTION & NOTES
C3-C5	UTILITY & STREET DETAILS
C6-C8	PEDESTRIAN RAMP DETAILS
C9-C11	EROSION & SEDIMENT CONTROL DETAILS
C12	REMOVALS
C13	ROUNDBOUT DETAILS
C14	ALIGNMENTS
C15-C18	LAKE FOREST ROAD - SANITARY & WATERMAIN PLAN & PROFILE
C19-C20	LAKE FOREST ROAD - STREET & STORM SEWER PLAN & PROFILE
C21-C22	GRADING & DRAINAGE PLAN
C23-C24	EROSION & SEDIMENT CONTROL PLAN
C25	SWPPP NARRATIVE
C26	STRIPING & SIGNAGE PLAN
C27-C28	CROSS SECTIONS

PROJECT AREA
LAKE FOREST ROAD IMPROVEMENTS

STARK ENGINEERING

www.starkengineering.com
320-249-2611
Sauk Rapids, Minnesota

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.

Wayne C. Stark
7/27/26
26093
Date Registration No.

REVISIONS	DATE	BY	DESCRIPTION
4/14/26	CONST.	DOC.	
7/27/26	PER	REVIEW	

2026 LAKE FOREST ROAD IMP.
BAXTER, MINNESOTA
for:
15521 EDGEWOOD DR, LLC

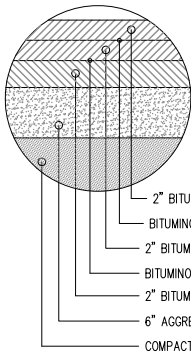
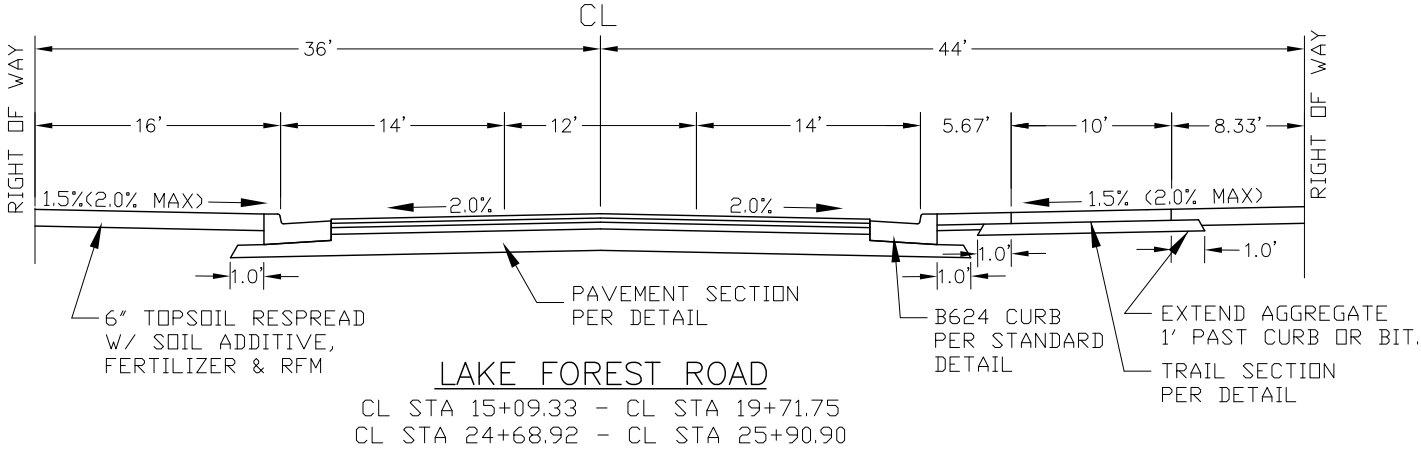
TITLE SHEET

SHEET
C-1
OF 28 SHEETS

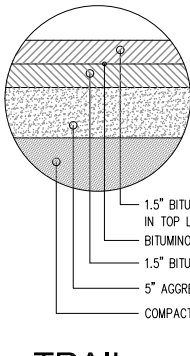
STATEMENT OF ESTIMATED QUANTITIES FOR-

Lake Forest Road

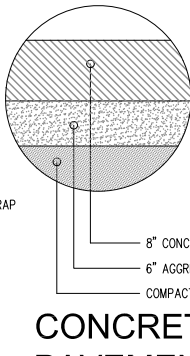
NO.	ITEM	QUANTITY	UNIT
1	MOBILIZATION	1	LUMP SUM
2	CLEARING AND GRUBBING	1	LUMP SUM
3	COMMON EXCAVATION (PLANNED QUANTITY)	5,200	CU. YD.
4	STRUCTURAL FILL (LOOSE VOLUME)	14,850	CU. YD.
5	BORROW MATERIAL (LOOSE VOLUME)	12,050	CU. YD.
6	STRIP, STOCKPILE, AND SPREAD 6" TOPSOIL (PLANNED QUANTITY)	1,550	CU. YD.
7	TOPSOIL BORROW	550	CU. YD.
8	SILT FENCE	5,885	LIN. FT.
9	ROCK CONSTRUCTION ENTRANCE	3	EACH
10	INLET PROTECTION	20	EACH
11	STREET SWEEPER (WITH PICKUP BROOM)	20	HOURL
12	CONSTRUCTION WATER	12	1000 GAL
13	TEMPORARY SEEDING	3.40	ACRE
14	PERMANENT TURF SEED, FERTILIZER, ADDITIVE & RFM	3.85	ACRE
15	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	39	LIN. FT.
16	REMOVE BITUMINOUS PAVEMENT	47	SQ. YD.
17	REMOVE EXISTING CURB & GUTTER	33	LIN. FT.
18	MILL BITUMINOUS PAVEMENT	43	SQ. YD.
19	12" RCP STORM SEWER (CLASS III)	579	LIN. FT.
20	15" RCP STORM SEWER (CLASS III)	68	LIN. FT.
21	12" RCP FES	1	EACH
22	15" RCP FES	1	EACH
23	STORM SEWER CATCH BASIN	4	EACH
24	STORM SEWER CATCH BASIN MANHOLE	4	EACH
25	STORM SEWER OUTLET MANHOLE	1	EACH
26	FLEXMAT (FES & EOF)	25	SQ. YD.
27	CONNECT TO EXISTING SANITARY SEWER	2	EACH
28	6" PVC SEWER (SCH 40)	308	LIN. FT.
29	8" PVC SEWER (SDR 26)	1,395	LIN. FT.
30	6" PVC CLEANOUT W/ IRRIGATION BOX (DETAIL S-7)	7	EACH
31	SANITARY MANHOLE	57.4	LIN. FT.
32	TRACER WIRE SYSTEM (SANITARY)	1	LUMP SUM
33	CLEAN AND TELEVISE SANITARY SYSTEM	1	LUMP SUM
34	CONNECT TO EXISTING WATER MAIN	3	EACH
35	6" GATE VALVE	7	EACH
36	8" GATE VALVE	1	EACH
37	12" GATE VALVE	4	EACH
38	HYDRANT AND 6" GATE VALVE	4	EACH
39	6" C900 WATER MAIN	420	LIN. FT.
40	8" C900 WATER MAIN	45	LIN. FT.
41	12" C900 WATER MAIN	2,039	LIN. FT.
42	DUCTILE IRON FITTINGS	2,225	LBS
43	4" INSULATION	7	SQ. YD.
44	TRACER WIRE SYSTEM (WATERMAIN)	1	LUMP SUM
45	AGGREGATE BASE (CV) CLASS 5 (P)	752	CU. YD.
46	TYPE SP 9.5 WEARING COURSE MIXTURE	819	TON
47	TYPE SP 12.5 NON WEARING COURSE MIXTURE	445	TON
48	BITUMINOUS MATERIAL FOR TACK COAT	543	GAL
49	CONCRETE VALLEY GUTTER	145	LIN. FT.
50	CONCRETE B624 CURB AND GUTTER	1,677	LIN. FT.
51	CONCRETE D424 CURB AND GUTTER	427	LIN. FT.
52	8" CONCRETE MEDIAN W/ 4" AGGREGATE BASE	136	SQ. YD.
53	8" CONCRETE COMMERCIAL DRIVEWAY	211	SQ. YD.
54	PEDESTRIAN RAMPS (6" CONCRETE WALK SECTION)	289	SQ. FT.
55	TRUNCATED DOME PANELS	64	SQ. FT.
56	STRIPING - 4" BROKEN LINE YELLOW PAINT	296	LIN. FT.
57	STRIPING - 4" SOLID LINE YELLOW PAINT	1,182	LIN. FT.
58	STRIPING - 4" DOUBLE SOLID LINE YELLOW PAINT	193	LIN. FT.
59	STRIPING - 12" SOLID LINE YELLOW PAINT	57	LIN. FT.
60	STRIPING - LEFT TURN ARROW	10	EACH
61	STREET SIGN TYPE 'C' (INCLUDES POST)	59	SQ. FT.
62	TRAFFIC CONTROL	1	LUMP SUM
63	TEMPORARY BARRICADES	9	EACH



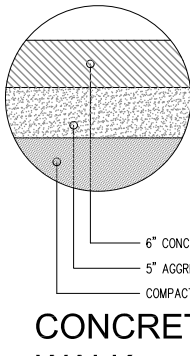
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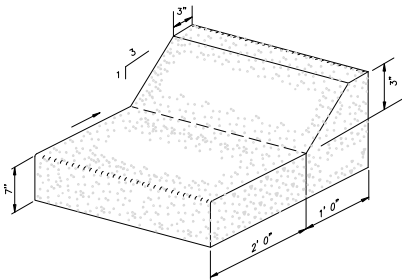
TRAIL SECTION
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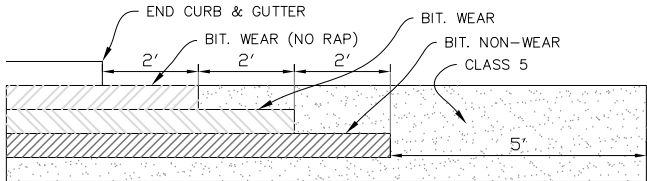
CONCRETE PAVEMENT SECTION
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CONCRETE WALK SECTION
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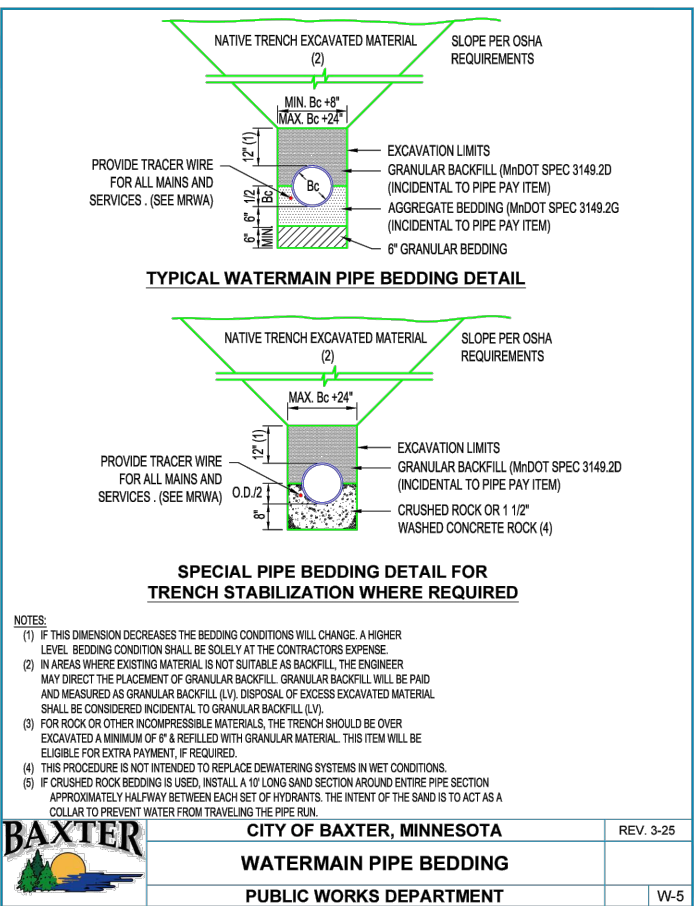
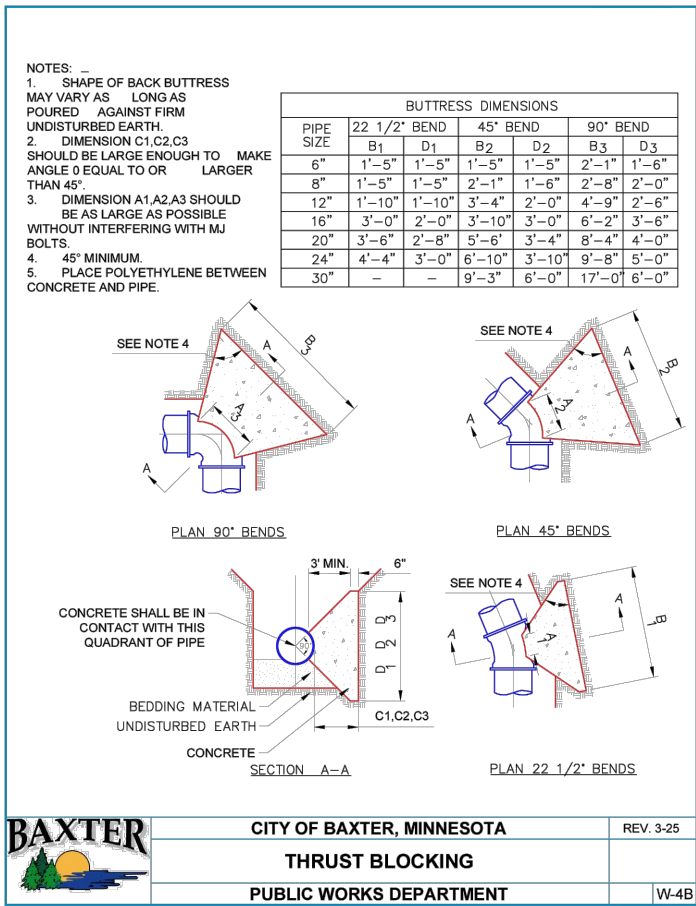
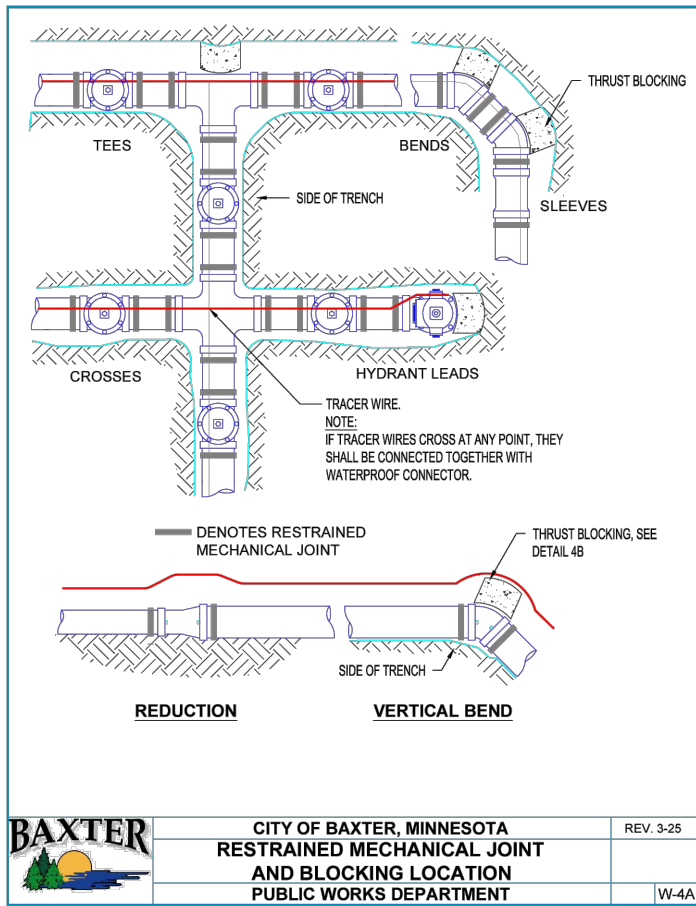
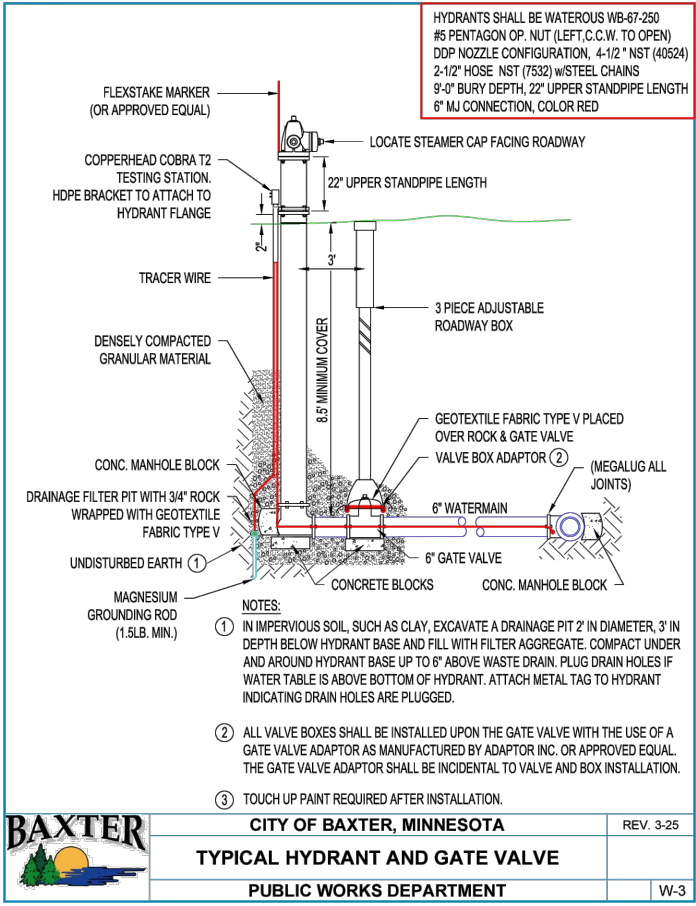
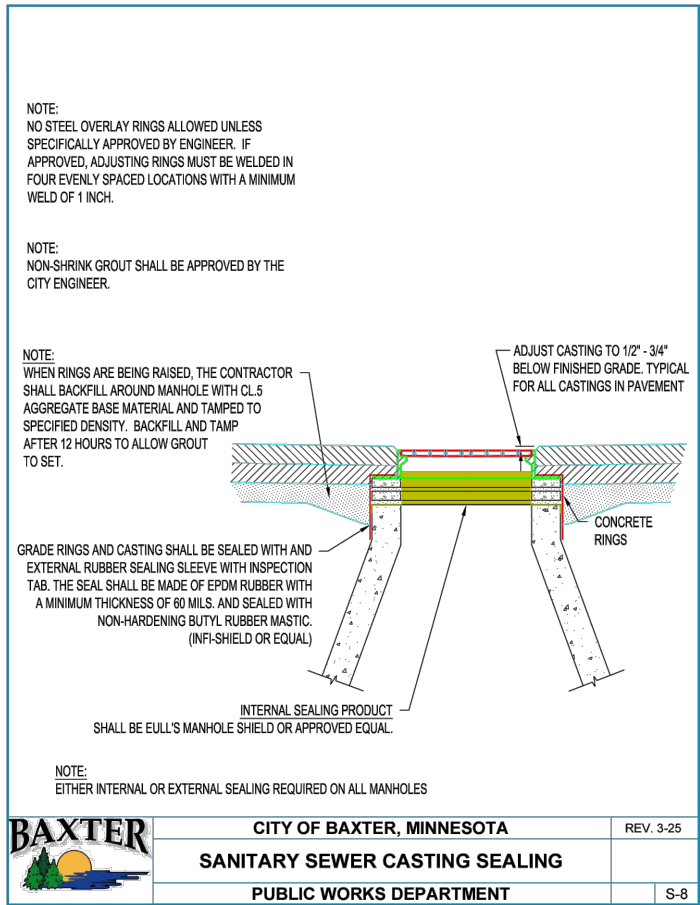
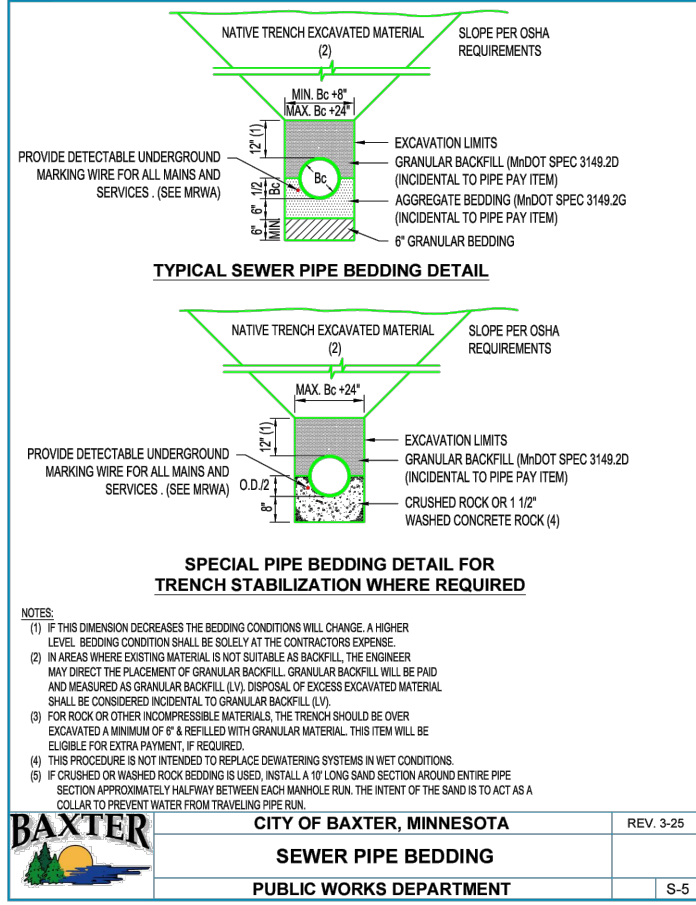
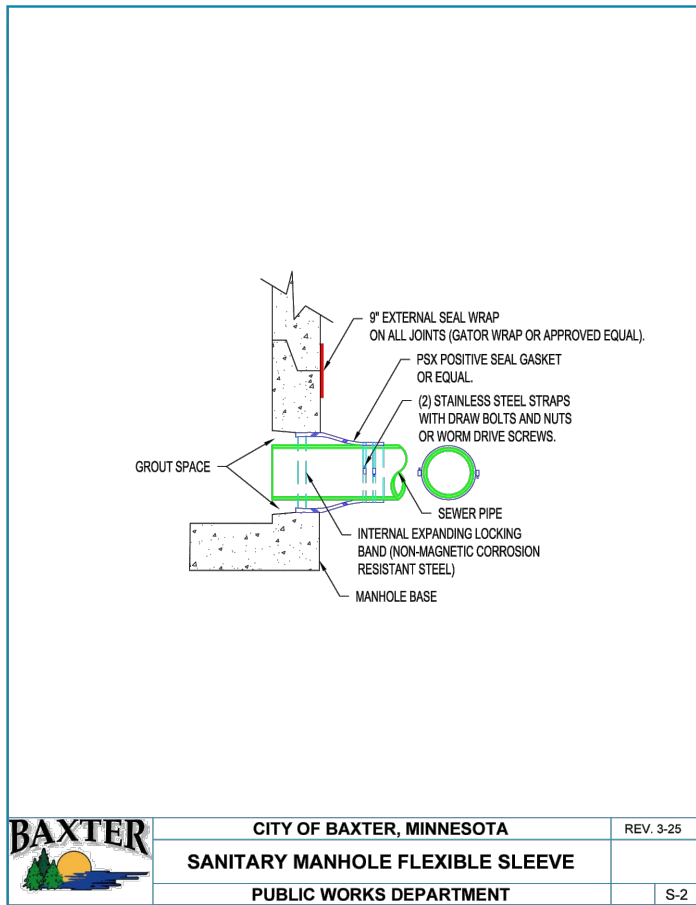
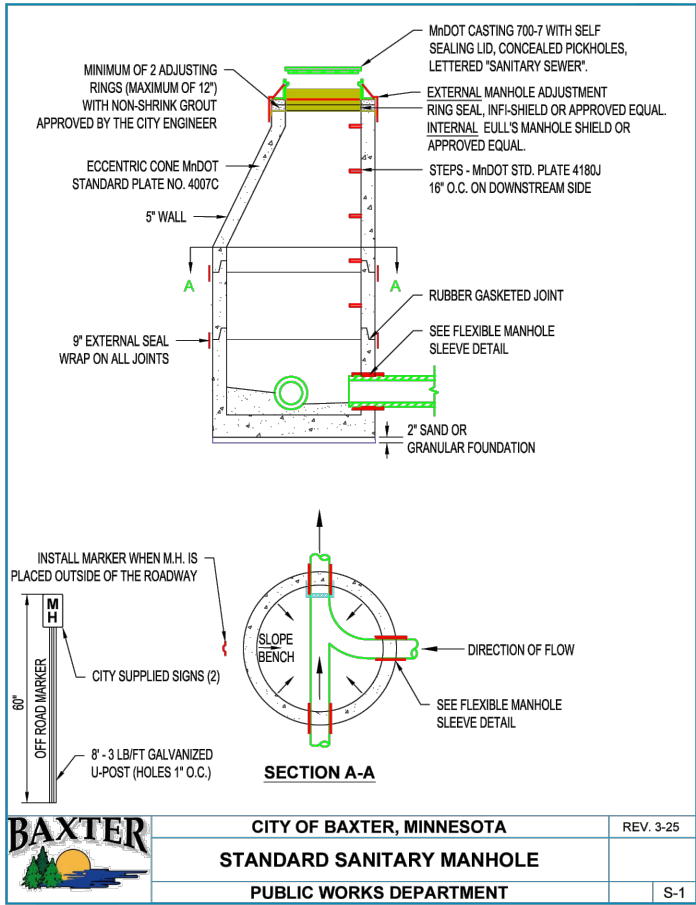


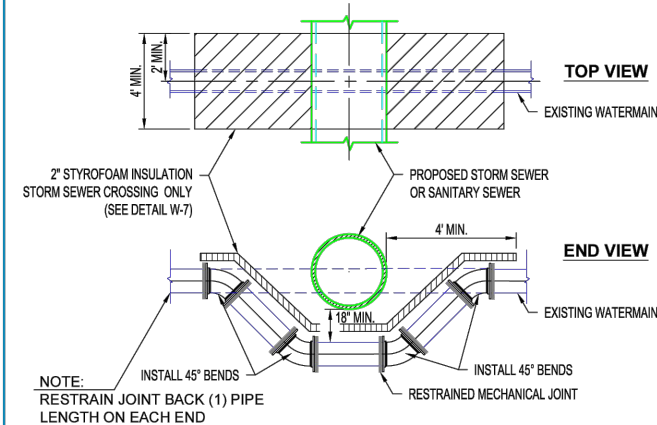
— FOR ROUNDABOUT MEDIANS
D424 MODIFIED CURB
NO SCALE



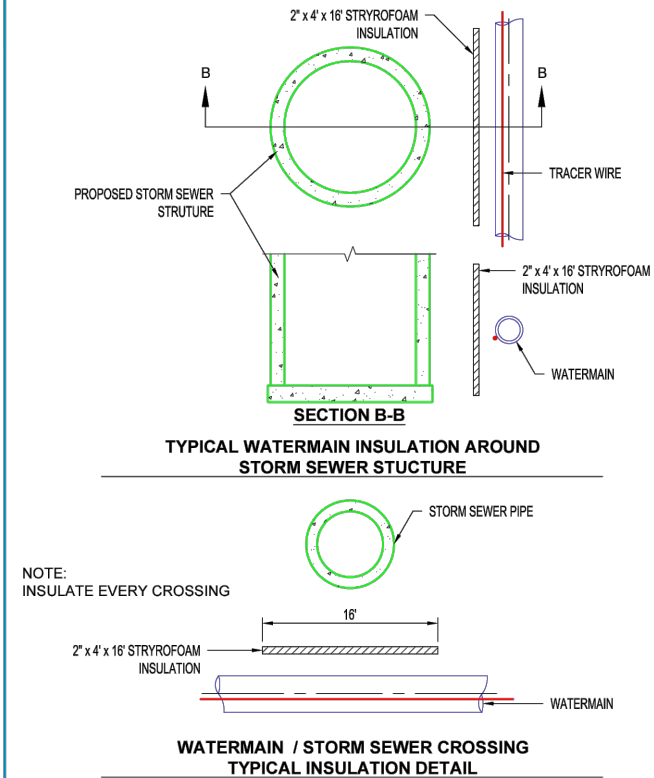
STAGGERED BITUMINOUS JOINTS
NO SCALE

MNDOT STANDARD PLATES	
STANDARD PLATE	DESCRIPTION
3000M	REINFORCED CONCRETE PIPE
3006H	GASKET JOINT FOR REINFORCED CONCRETE PIPE
3007F	SHEAR REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES
3022C	PRECAST CONCRETE SAFETY APRON
3100G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3145G	CONCRETE PIPE OR PRECAST BOX CULVERT TIES
4006L	CATCH BASIN, DESIGN G & H
4007C	PRECAST MECHANICAL JOINT SEWER MANHOLE
4010I	CONCRETE ADJUSTING RINGS
4011E	PRECAST CONCRETE BASE
4020J	MANHOLE OR CATCH BASIN COVER
4108F	ADJUSTING RINGS FOR CATCH BASINS AND MANHOLES
4101D	RING CASTING FOR MANHOLE OR CATCH BASIN (700-7)
4180J	MANHOLE OR CATCH BASIN STEP
7100H	CONCRETE CURB & GUTTER (B624)
7111J	INSTALLATION OF CATCH BASIN CASTINGS
7113A	CONCRETE APPROACH NOSE DETAIL

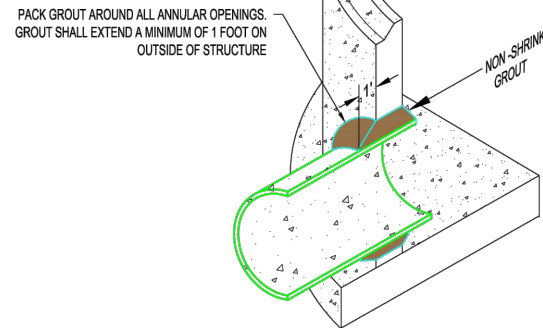




	CITY OF BAXTER, MINNESOTA	REV. 3-25
	WATERMAIN ADJUSTMENT	
	PUBLIC WORKS DEPARTMENT	W-6

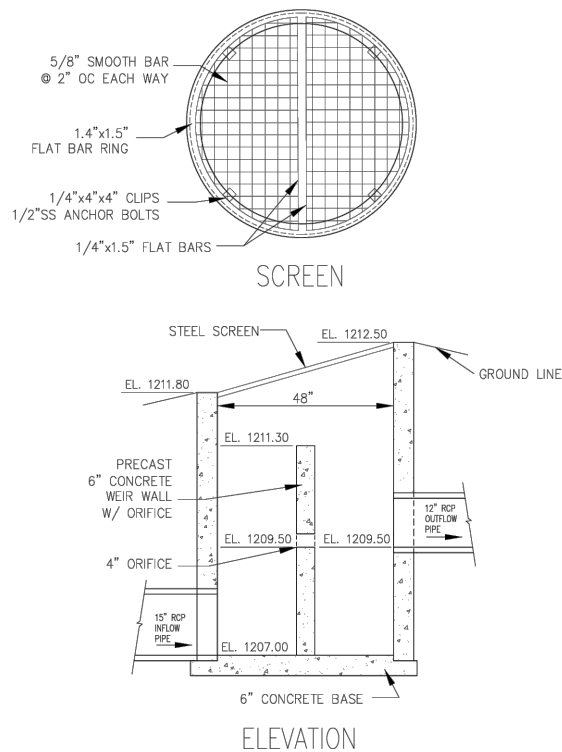


	CITY OF BAXTER, MINNESOTA	REV. 3-25
	WATERMAIN / STORM SEWER INSULATION	
	PUBLIC WORKS DEPARTMENT	W-8

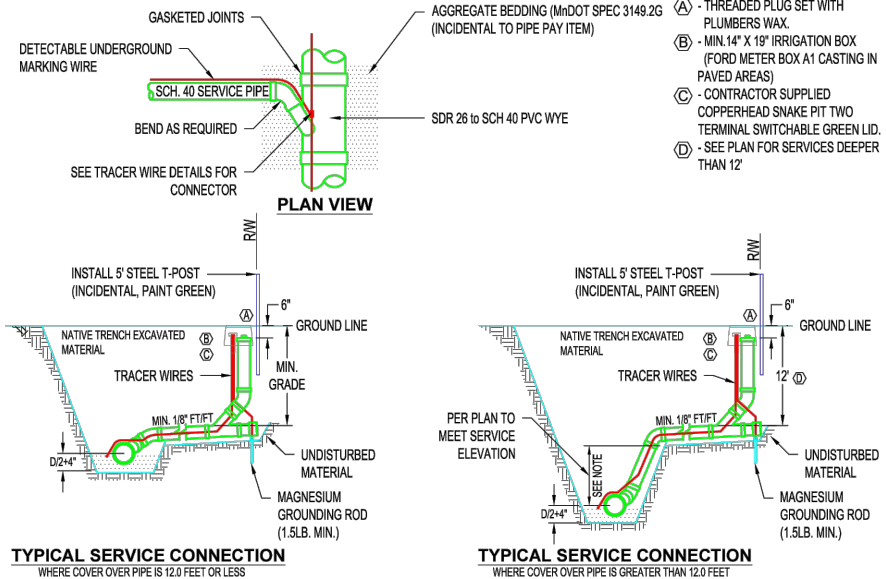


- NOTES:
1. NON - SHRINK GROUT TO BE FROM COMMERCIAL REDI-MIX PLANT OR NON - SHRINK GROUT MAY BE USED IF APPROVED BY THE CITY ENGINEER

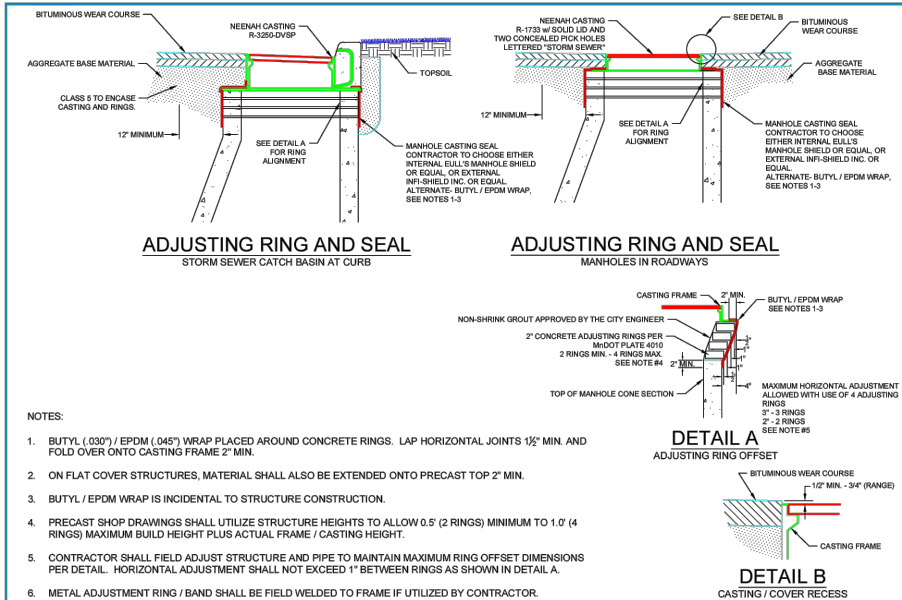
	CITY OF BAXTER, MINNESOTA	REV. 3-25
	STORM PIPE PENETRATION	
	PUBLIC WORKS DEPARTMENT	ST-2



POND OUTLET STRUCTURE DETAIL
NOT TO SCALE

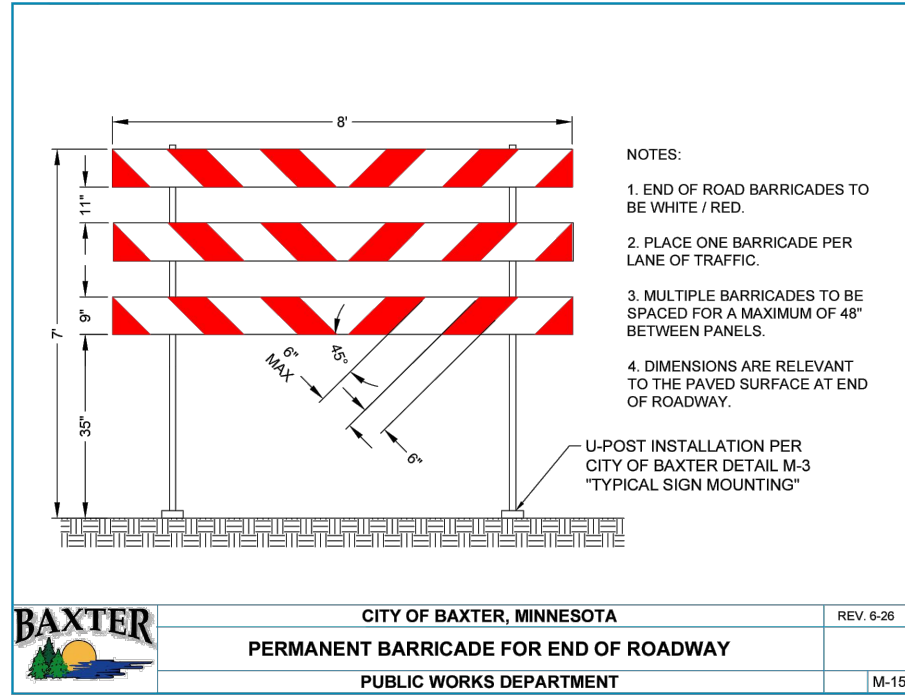
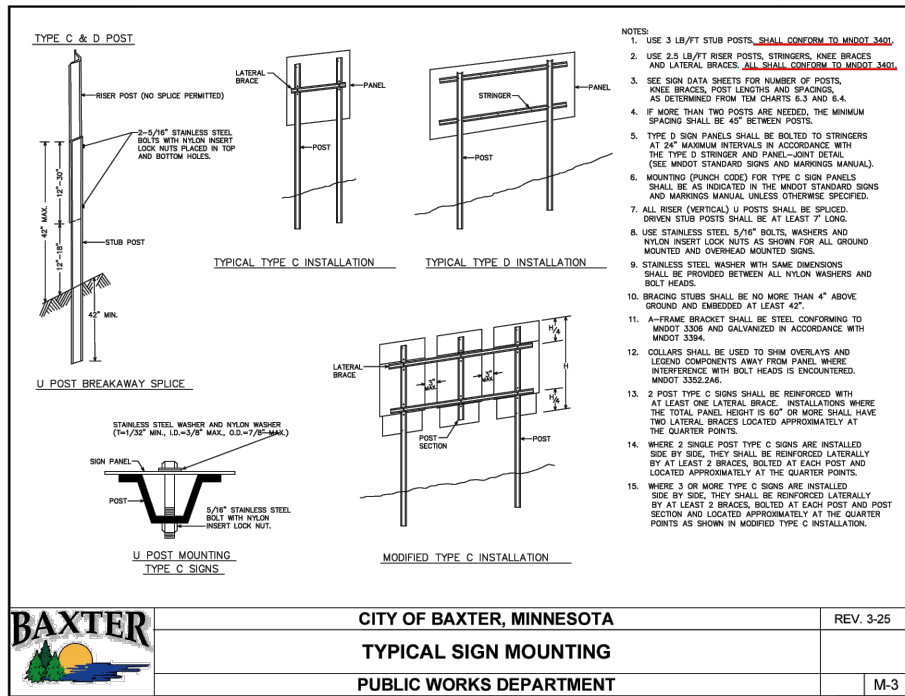
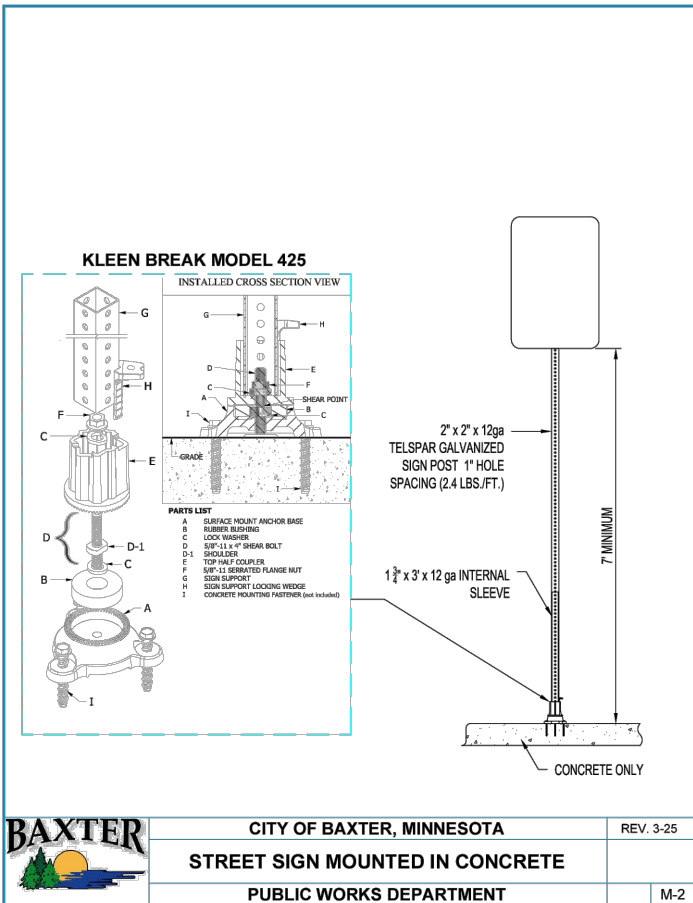
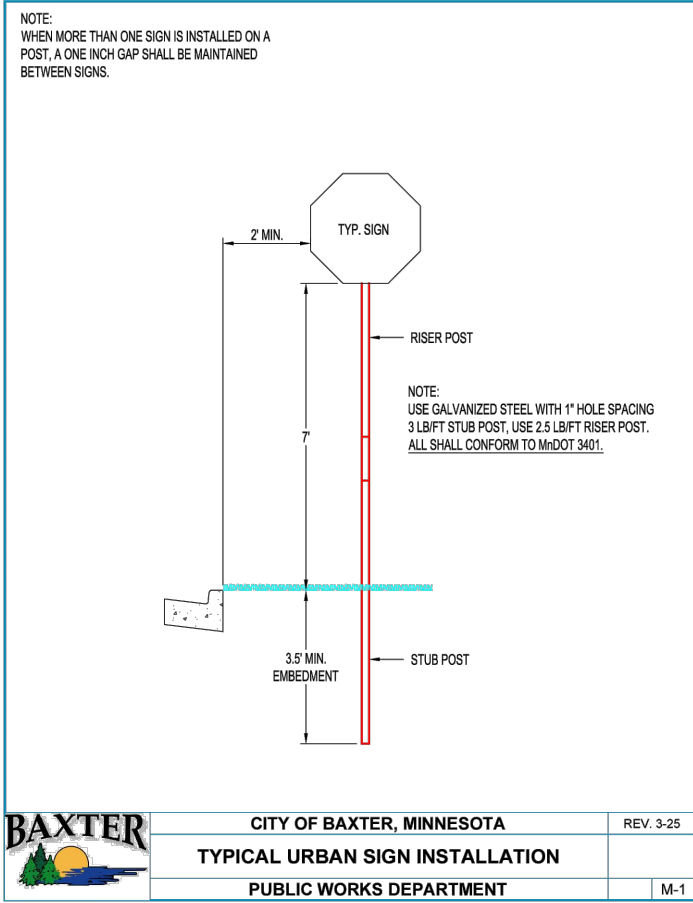
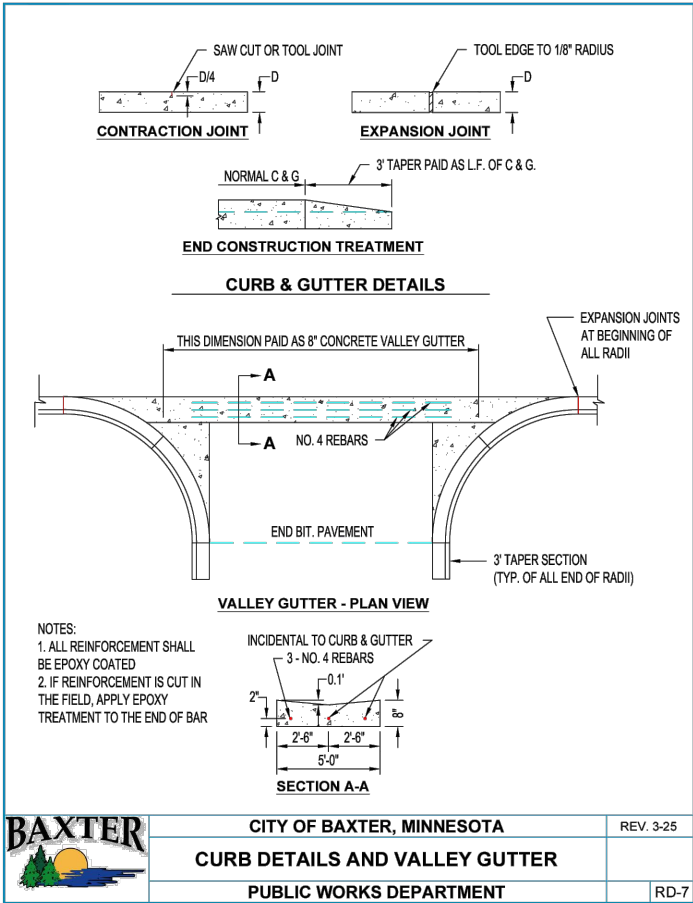


	CITY OF BAXTER, MINNESOTA	REV. 3-25
	SANITARY SEWER SERVICE CONNECTION	
	PUBLIC WORKS DEPARTMENT	S-7

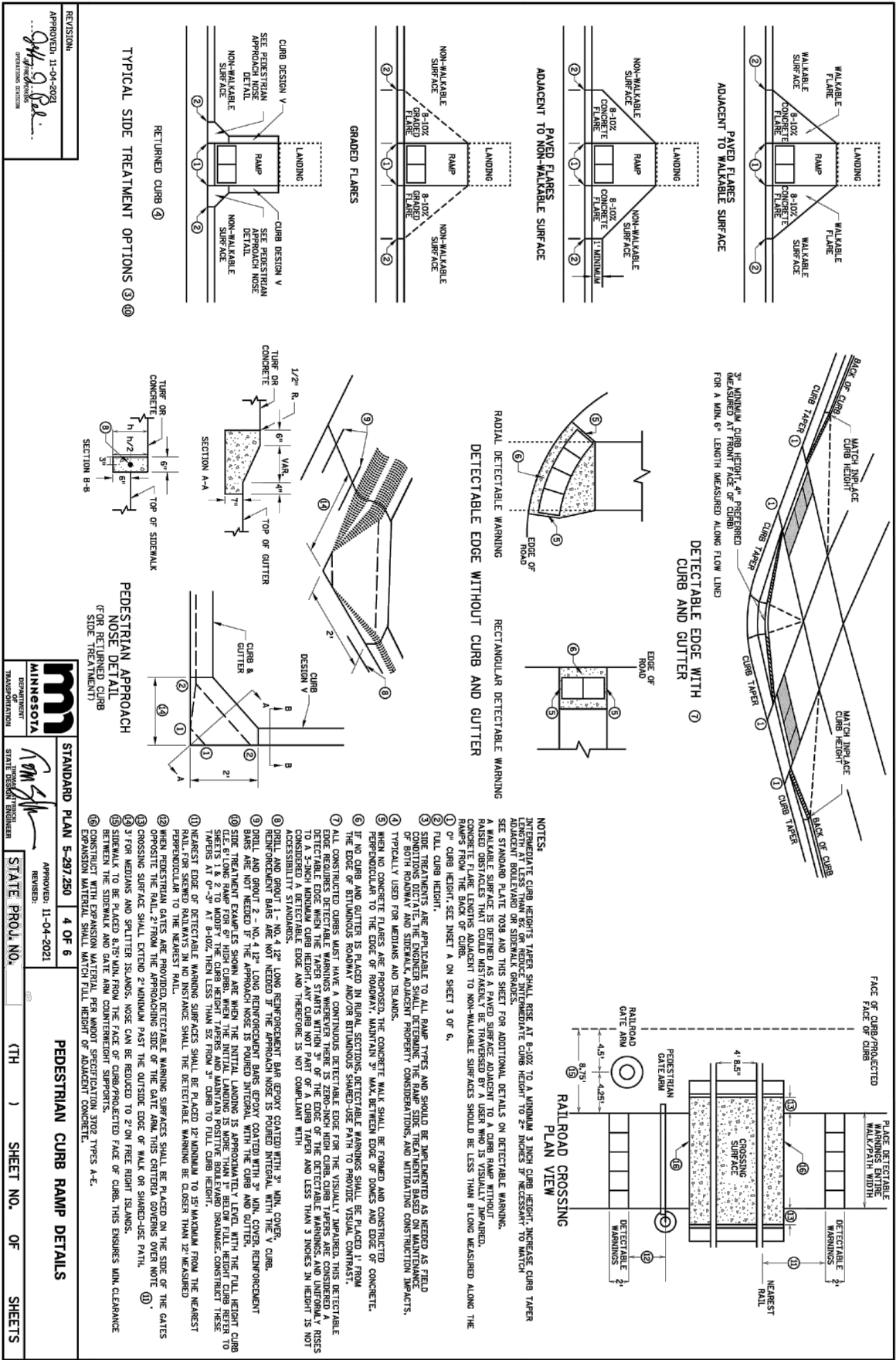


- NOTES:
1. BUTYL (.037) / EPDM (.045) WRAP PLACED AROUND CONCRETE RINGS. LAP HORIZONTAL JOINTS 1/2" MIN. AND FOLD OVER ONTO CASTING FRAME 2" MIN.
 2. ON FLAT COVER STRUCTURES, MATERIAL SHALL ALSO BE EXTENDED ONTO PRECAST TOP 2" MIN.
 3. BUTYL / EPDM WRAP IS INCIDENTAL TO STRUCTURE CONSTRUCTION.
 4. PRECAST SHOP DRAWINGS SHALL UTILIZE STRUCTURE HEIGHTS TO ALLOW 0.5' (2 RINGS) MINIMUM TO 1.0' (4 RINGS) MAXIMUM BUILD HEIGHT PLUS ACTUAL FRAME / CASTING HEIGHT.
 5. CONTRACTOR SHALL FIELD ADJUST STRUCTURE AND PIPE TO MAINTAIN MAXIMUM RING OFFSET DIMENSIONS PER DETAIL. HORIZONTAL ADJUSTMENT SHALL NOT EXCEED 1" BETWEEN RINGS AS SHOWN IN DETAIL A.
 6. METAL ADJUSTMENT RING / BAND SHALL BE FIELD WELDED TO FRAME IF UTILIZED BY CONTRACTOR.

	CITY OF BAXTER, MINNESOTA	REV. 3-25
	STORM SEWER ADJUSTING RING AND SEAL	
	PUBLIC WORKS DEPARTMENT	ST-1



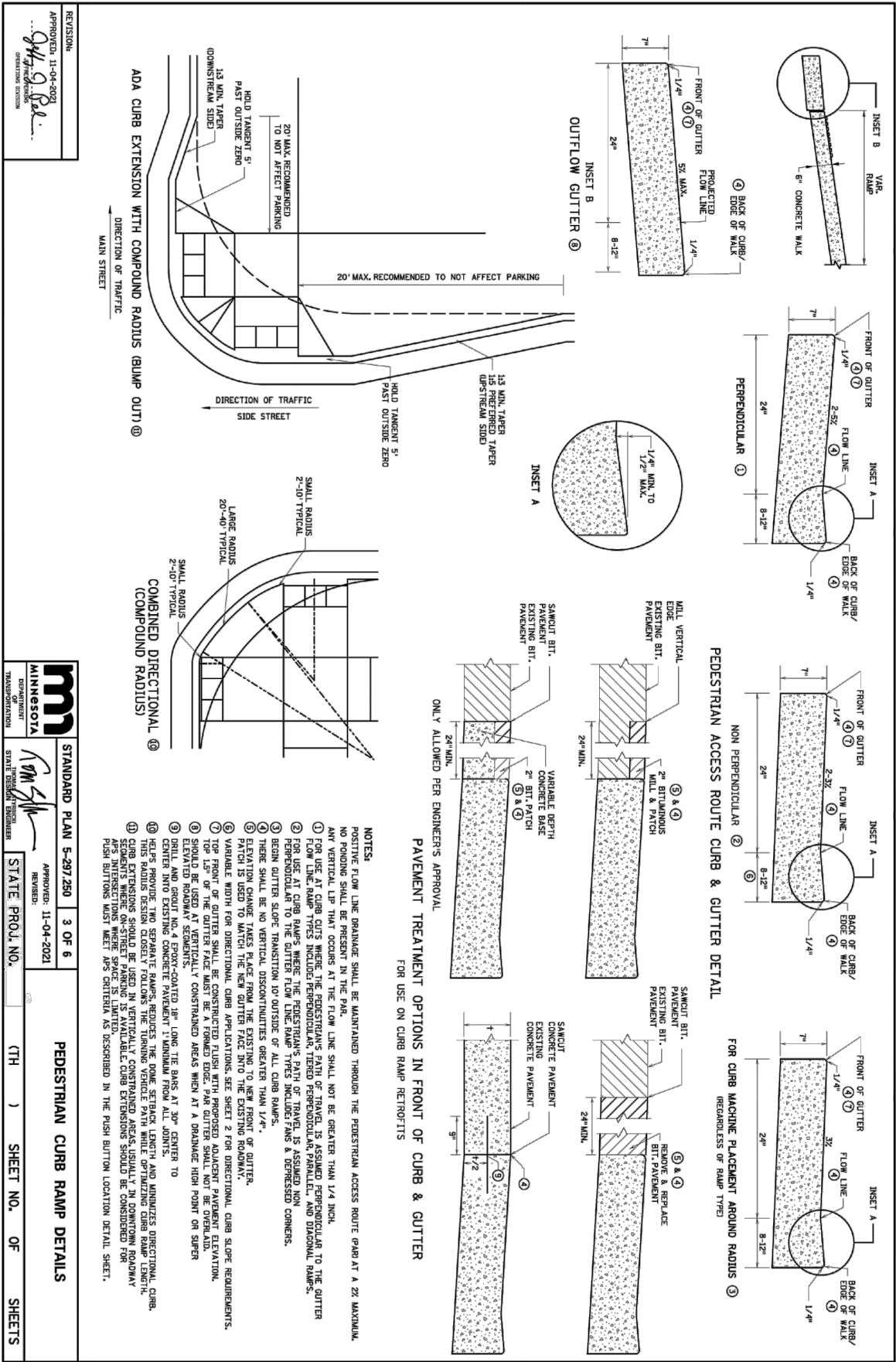
PEDESTRIAN RAMP
DETAILS



CITY OF BAXTER, MINNESOTA
PEDESTRIAN CURB RAMP DETAILS
PUBLIC WORKS DEPARTMENT

REV. 3-25

RD-4



CITY OF BAXTER, MINNESOTA
PEDESTRIAN CURB RAMP DETAILS
PUBLIC WORKS DEPARTMENT

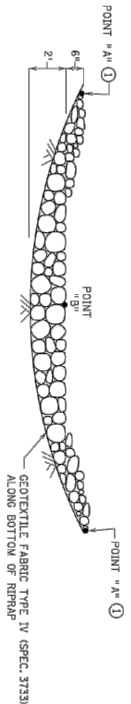
REV. 3-25

RD-3

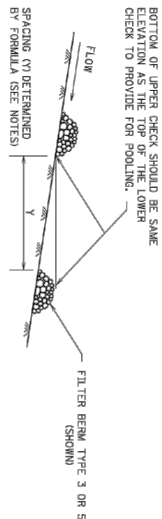
REVISIONS	4/14/26	CONST. DOC.
	7/27/26	PER REVIEW

EROSION & SEDIMENT
CONTROL DETAILS

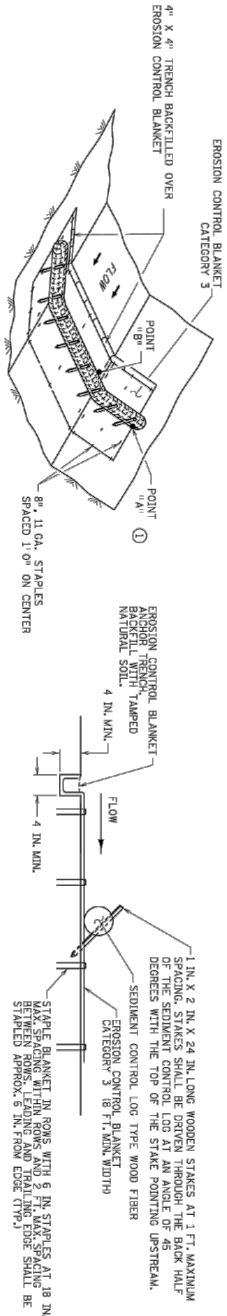
2026 LAKE FOREST ROAD IMP.
BAXTER, MINNESOTA
for: 15521 EDGEWOOD DR, LLC



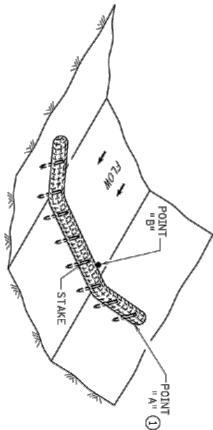
ROCK DITCH CHECKS
FILTER BERMS TYPE 3 (ROCK WEEPER) OR FILTER TYPE 5 (ROCK) ② ③
FOR USE ON ROUGH GRADED AREAS



DITCH CHECK SPACING
(FOR ALL FILTER BERM TYPES)



SEDIMENT CONTROL LOG TYPE BLANKET SYSTEM ③



SEDIMENT CONTROL LOG TYPE WOOD FIBER, OR TYPE COMPOST ③
FOR USE ON ROUGH GRADED AREAS

- NOTES:
- SEE SPECS. 2973, 3601, 3733, 3885, 3886 & 3889.
- FOR DITCH CHECKS, PLACE SEDIMENT CONTROL LOG PERPENDICULAR TO FLOW AND IN A CRESCENT SHAPE WITH APPROXIMATE SPACING BETWEEN EACH DITCH CHECK SHOULD BE DETERMINED FROM THE FOLLOWING SPACING FORMULA:
- APPROXIMATE SPACING OF DITCH CHECKS (FT) =
$$Y = \frac{X^2}{100 \times S}$$
- ① POINT "A" MUST BE A MINIMUM OF 6 INCHES HIGHER THAN POINT "B" TO ENSURE THAT WATER FLOWS OVER THE DITCH AND NOT AROUND THE ENDS.
- ② PERMANENT ROCK DITCH CHECKS PLACED WITHIN THE CLEAR ZONE ARE TO BE 18" OR LESS IN HEIGHT, A 1:6 APPROACH AND DEPARTURE SLOPE SHALL BE PROVIDED.
- ③ DITCH GRADE 1:5% - 5%, MAX. FLOW VELOCITY 12 FT./SEC.
- ④ DITCH GRADE 1:5% - 3%, MAX. FLOW VELOCITY 4.5 FT./SEC.
- ⑤ DITCH GRADE 1:5% - 3%, MAX. FLOW VELOCITY 1.5 FT./SEC.

REVISIONS
APPROVED: 2-28-2017
W. C. Stark
W. C. Stark
DESIGN ENGINEER, CIVIL

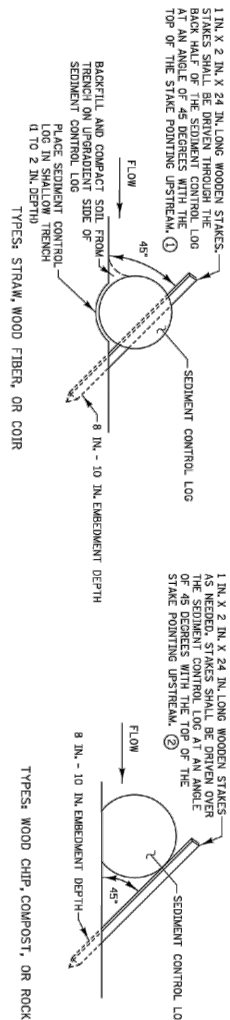
MINNESOTA
DEPARTMENT OF TRANSPORTATION
STATE DESIGN ENGINEER
APPROVED: 2-28-2017
W. C. Stark
W. C. Stark

REVISIONS
APPROVED: 2-28-2017
W. C. Stark
W. C. Stark
DESIGN ENGINEER, CIVIL

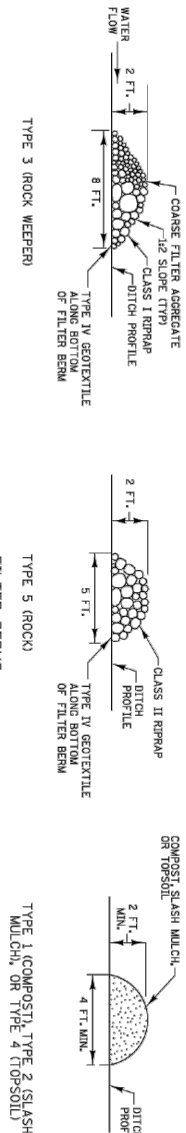


CITY OF BAXTER, MINNESOTA
DITCH CHECK
PUBLIC WORKS DEPARTMENT

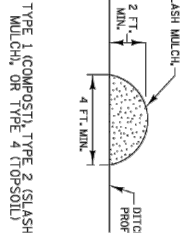
REV. 3-25
EC-3



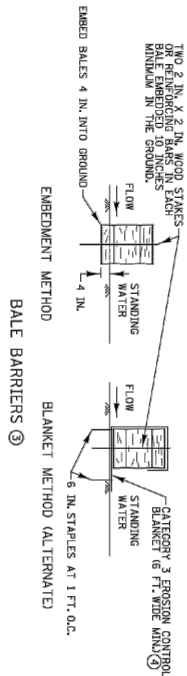
SEDIMENT CONTROL LOGS



TYPE 5 (ROCK)
FILTER BERMS



TYPE 1 (COMPOST), TYPE 2 (SLASH
MULCH), OR TYPE 4 (TOP-SOIL)



BALE BARRIERS ③

- NOTES:
- SEE SPECS. 2973, 3149, 3674, 3882, 3886, & 3897.
- ① GRADE BETWEEN STAKES SHALL BE A MAXIMUM OF 1 FOOT FOR DITCH CHECKS ON 2 FEET FOR OTHER APPLICATIONS.
- ② PLACE STAKES AS NEEDED TO PREVENT MOVEMENT OF SEDIMENT CONTROL LOGS PLACED ON SLOPES OR AS NEEDED DUE TO OTHER FACTORS. STAKES SHALL BE INCIDENTUAL.
- ③ TO BE USED FOR CRITICAL PERIMETER CONTROL AREAS WHERE STANDING WATER OCCURS 16 INCH MAX. DEPTH. BALES SHALL CONSIST OF TYPE 1 MULCH OR APPROXIMATELY 14 IN. X 18 IN. X 36 IN. LONG. BALES SHALL BE PLACED ON EDGE AND BUTTED TIGHT TO ADJACENT BALES.
- ④ INSTEAD OF TRENCHING, PLACE BALE ON THE BLANKET AND WRAP BLANKET AROUND THE BALE.

REVISIONS
APPROVED: 2-28-2017
W. C. Stark
W. C. Stark
DESIGN ENGINEER, CIVIL

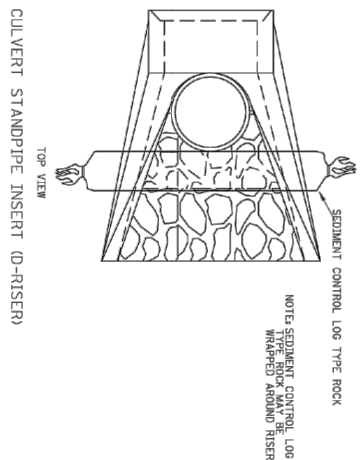
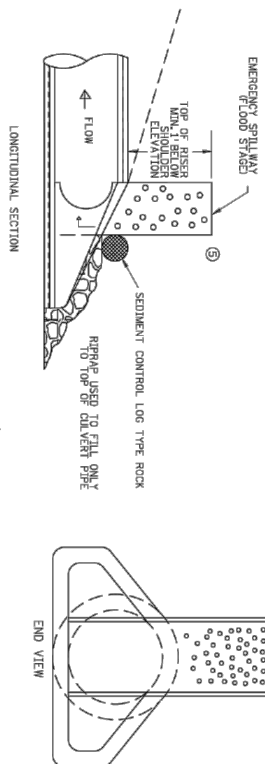
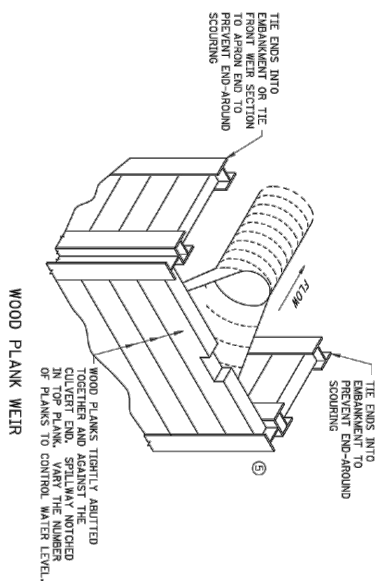
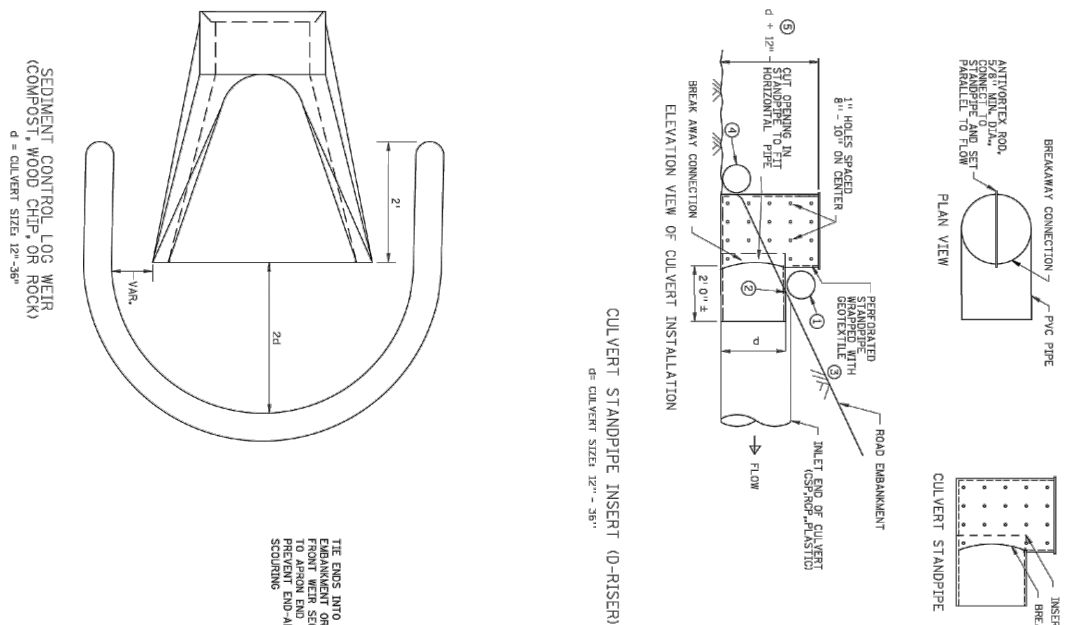
MINNESOTA
DEPARTMENT OF TRANSPORTATION
STATE DESIGN ENGINEER
APPROVED: 2-28-2017
W. C. Stark
W. C. Stark

REVISIONS
APPROVED: 2-28-2017
W. C. Stark
W. C. Stark
DESIGN ENGINEER, CIVIL



CITY OF BAXTER, MINNESOTA
FILTER BERMS, SEDIMENT CONTROL LOGS AND
BALE BARRIERS
PUBLIC WORKS DEPARTMENT

REV. 3-25
EC-2

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TEMPORARY SEDIMENT CONTROL CULVERT END CONTROLS

RD PLAN 5-297.405	8 OF 8
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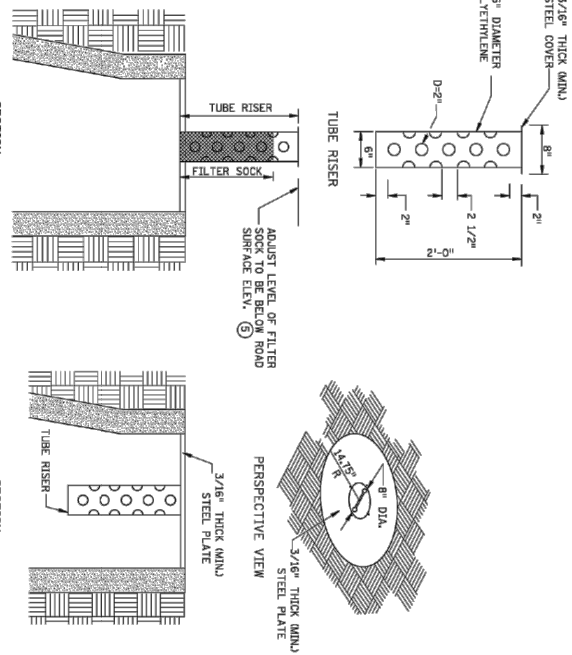
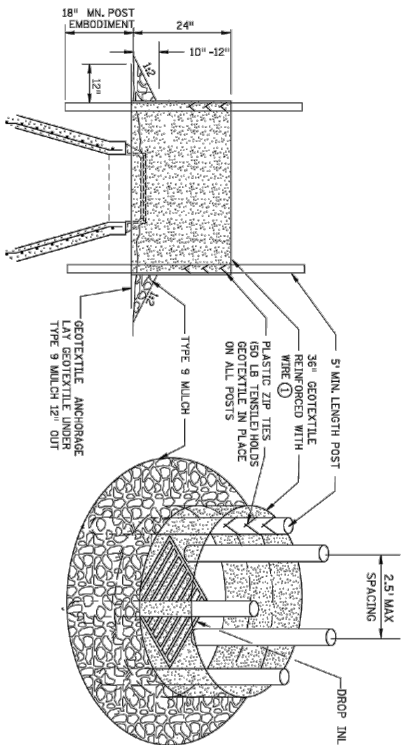
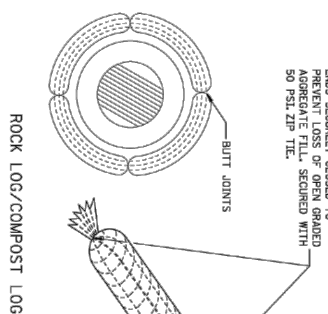
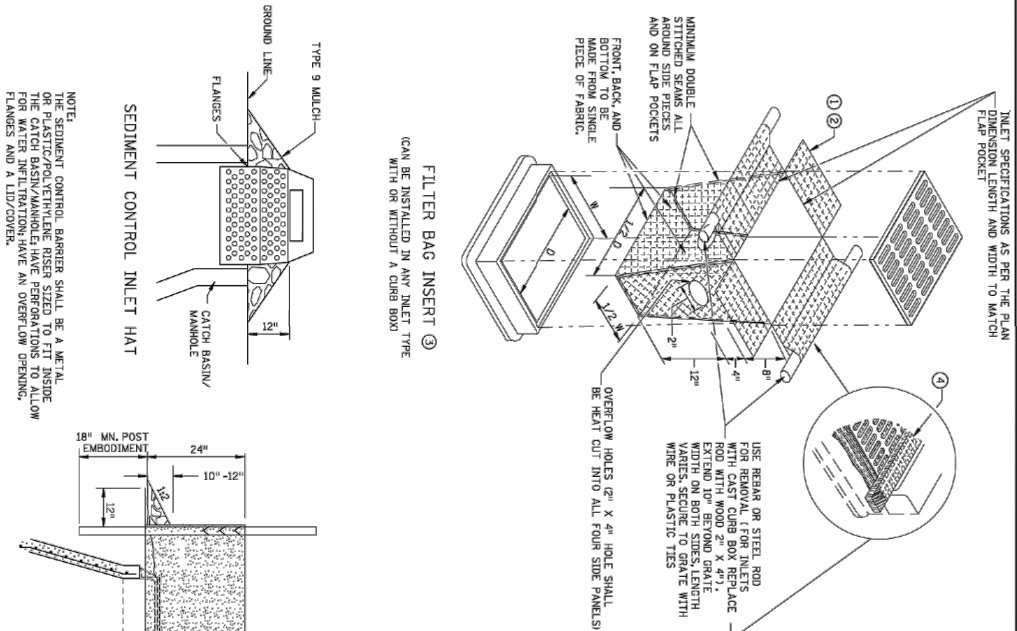
8 OF 8

AXTER

CITY OF BAXTER, MINNESOTA
CULVERT END CONTROLS
PUBLIC WORKS DEPARTMENT

REV. 3-25

EC-8



SECTION
(UP POSITION)

POP-UP HEAD

SECTION
DOWN POSITION

CITY OF BAXTER, MINNESOTA
DRM DRAIN INLET PROTECTION
PUBLIC WORKS DEPARTMENT

REV. 3-25

EC-4

REVISION: _____

APPROVED: 2-28-2017

[Signature]

CHIEF ENVIRONMENTAL OFFICER

m
MINNESOTA
DEPARTMENT
OF TRANSPORTATION

Tom Sklar
STATE DESIGN ENGINEER

APPROVED:
2-28-2017

STANDARD PLAN 5-297.405
STORM DRAIN INLET PROTECTION
TEMPORARY SEDIMENT CONTROL

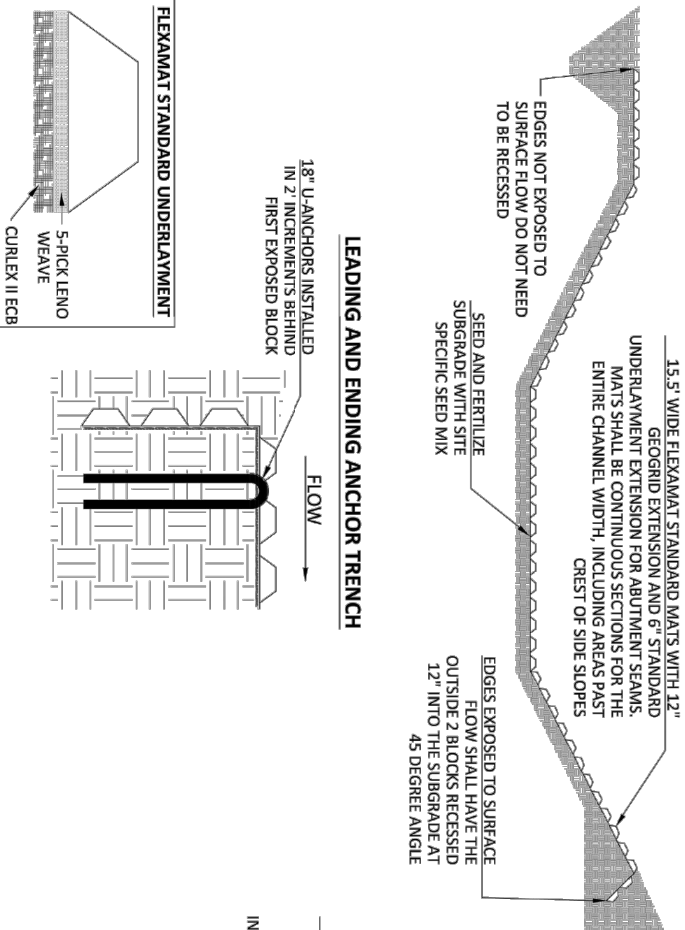
4 OF 8

- NOTES:
SEE SPECS. 2574.317 & 3866.
- DEVICES MUST BE INSTALLED ACCORDINGLY AS TO NOT CAUSE FLOODING ON ROADWAY THAT WOULD INTERFERE WITH TRAFFIC FLOW.
- ① ALL GEOTEK TYPE USED FOR INLET PROTECTION SHALL BE MONOFILAMENT IN BOTH DIRECTIONS, MEETING SPEC. 3866.
- ② FINISHED SURF, INCLUDING PAVED SURFACES WHERE REQUIRED SHALL EXTEND A MINIMUM OF 10 INCHES AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REPAIR.
- ③ INSTALLATION NOTES:
A. INLET BAG INSERT IN INLET SHALL BE LESS THAN 30 INCHES FROM THE CURB, MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRADE. THE PLACED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE OF 3 INCHES BETWEEN BAGS. WHEN NECESSARY, THE CONTRACTOR SHALL CUT THE BAG, USING A PLASTIC ZEP THIN SAW TO REMOVE THE 3 INCH SIDE CLEARANCE.
- ④ FLAP POCKET SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2 INCH X 4 INCH OR USE A ROCK SOCK OR SAND BAGS IN PLACE OF THE FLAP POCKET.
- ⑤ ROCK HEIGHT MUST NOT BE SO HIGH AS TO SLOW DOWN WATER FILTRATION TO CAUSE FLOODING OF THE ROADWAY.
- ⑥ GEOTEXTILE SOCK BETWEEN 4+0 FEET LONG AND 4+4 INCH DIAMETER, SEAM TO BE

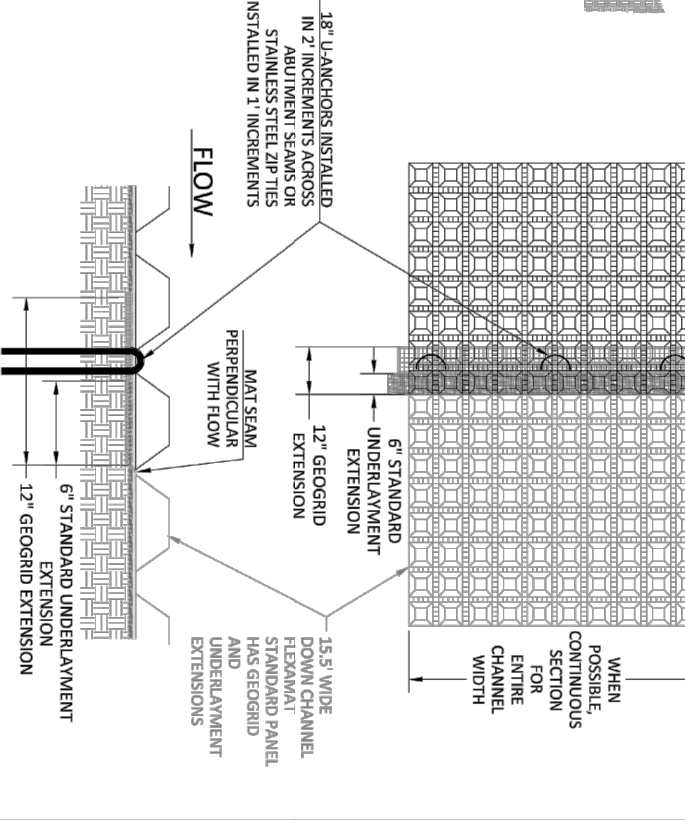
REVISIONS		
4/14/26 (CONST. DOC.)		
7/27/26 PER REVIEW		

STAIRS
EROSION & SEDIMENT
CONTROL DETAILS

METHOD FOR TREATING EDGES EXPOSED TO SURFACE SHEET FLOW



ABUTMENT METHOD FOR SEAMS PERPENDICULAR WITH FLOW



FLEXAMAT STANDARD - CHANNEL LAYOUT PERPENDICULAR TO FLOW

- CONSTRUCTION NOTES:
1. AN AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE ONSITE FOR THE START OF THE INSTALLATION.
 2. GRADE CHANNEL SO THAT WATER WILL FLOW DOWN CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND.
 3. PRIOR TO FLEXAMAT STANDARD INSTALLATION, SEED AND FERTILIZER SUBGRADE WITH SITE SPECIFIC SEED MIX IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
 4. INSTALL FLEXAMAT STANDARD ROLLS THAT ARE 15.5' WIDE WITH A 12' GEOGRID EXTENSION AND 6" STANDARD UNDERLAYMENT EXTENSION.
 - 4.1. INSTALL MATS SO THAT THE MATTING EXTENDS PAST THE CREST OF EITHER SIDE SLOPE FOR SLOPES STEEPER THAN 2:1. EMBED EDGE IN A 12" VERTICAL ANCHOR TRENCH. MATS SHALL BE CONTINUOUS SECTIONS ACROSS THE CHANNEL, INCLUDING AREAS PAST CREST OF SIDE SLOPES.
 - 4.2. FOR SLOPES LESS THAN 2:1, OUTSIDE LONGITUDINAL EDGES SHALL BE EMBEDDED IN A 12" 45 DEGREE ANCHOR TRENCH. ONLY IF EXPOSED TO SURFACE FLOW.
 - 4.3. INSTALLATION STARTS AT THE DOWN CHANNEL END AND MOVES UP THE CHANNEL. TOWARDS THE START OF CHANNEL OR OUTLET STRUCTURE, INSTALL UP CHANNEL MATS OVER THE GEOGRID AND UNDERLAYMENT EXTENSIONS OF DOWNSTREAM MATS. ENSURE EXTENSIONS ARE LAYING FLAT ON SUBGRADE AND UNDER ADJACENT MAT.
 5. INSTALL 18" U-ANCHORS IN 2' INCREMENTS BEHIND ANCHOR TRENCH AND ACROSS MAT ABUTMENT SEAMS. INSTALL U-ANCHORS PERPENDICULAR TO FLOW DIRECTLY BEHIND FIRST BLOCK OF PERPENDICULAR TO FLOW AND ENCOMPASS A MINIMUM OF THREE CORDS OF GRID OF EITHER MAT AT ABUTMENT SEAMS.
 6. AT THE INITIAL LEADING EDGE OF THE ARMORED CHANNEL, EMBED MAT 18" IN A VERTICAL ANCHOR TRENCH, FILL AND COMPACT ANCHOR TRENCH WITH SUITABLE FILL AT ENDING EDGE OF

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CITY OF BAXTER, MINNESOTA

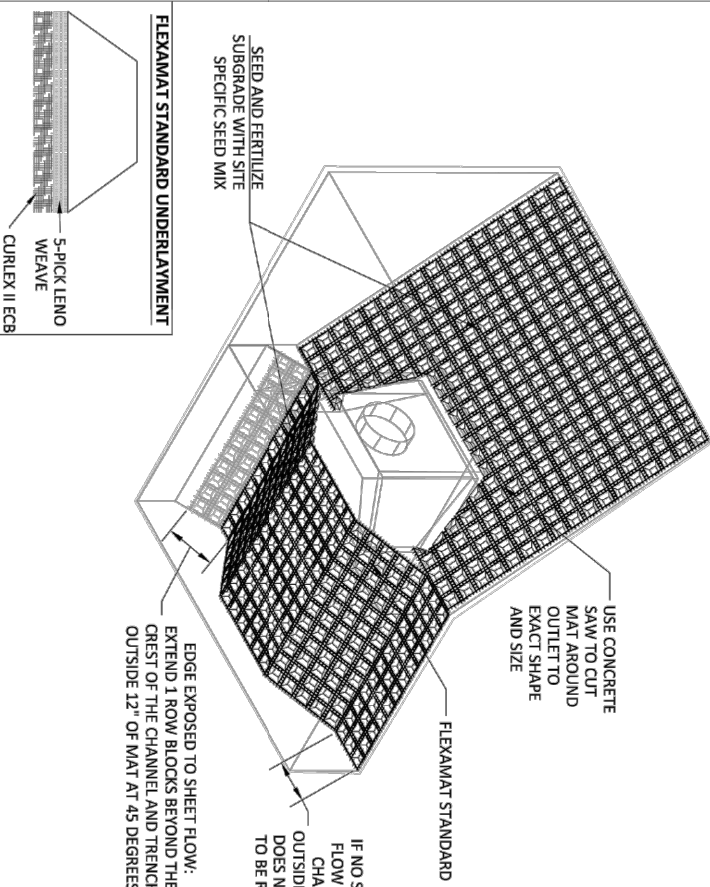
FLEXAMAT - CHANNEL LAYOUT

PUBLIC WORKS DEPARTMENT

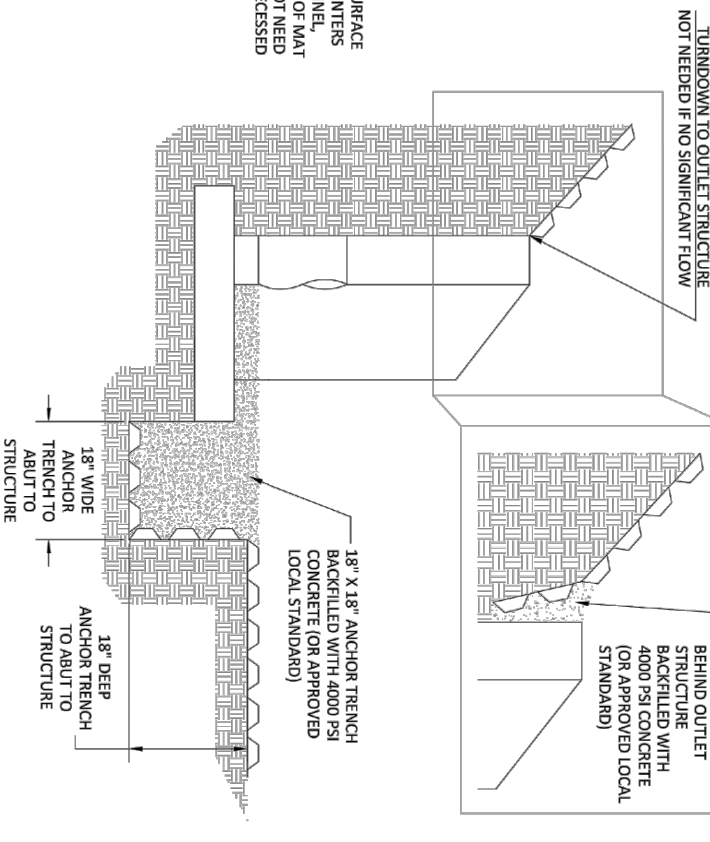
REV. 3-25

EC-9B

ISOMETRIC VIEW OF OUTLET AND SLOPE PROTECTION



PROFILE VIEW OF ANCHOR TRENCHES



FLEXAMAT STANDARD - OUTLET ARMORING

CONSTRUCTION NOTES:

1. GRADE CHANNEL SO THAT WATER WILL FLOW DOWN CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS.
2. PRIOR TO FLEXAMAT STANDARD INSTALLATION, SEED AND FERTILIZER SUBGRADE WITH SITE SPECIFIC SEED MIX IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
3. INSTALL FLEXAMAT STANDARD ROLLS THAT ARE 15.5' WIDE WITH A 12' GEOGRID EXTENSION AND 6" STANDARD UNDERLAYMENT EXTENSION.
- 3.1. WHERE POSSIBLE AVOID LONGITUDINAL ABUTMENT SEAMS IN CHANNEL BOTTOM.
- 3.2. FOR OUTLET PROTECTION WIDER THAN 16' SEE CHANNEL PARALLEL TO FLOW INSTALLATION DETAIL.
- 3.3. CHANNEL PARALLEL TO FLOW INSTALLATION DETAIL.
4. AT THE BEGINNING OF CHANNEL, THE INITIAL LEADING EDGE OF FLEXAMAT EXPOSED TO CONCENTRATED FLOW SHALL BE EMBEDDED 18" VERTICALLY INTO ANCHOR TRENCH. THE TRENCH SHALL BE FILLED WITH 4,000 PSI CONCRETE.
5. AT THE END OF THE ARMORED CHANNEL, EMBED THE MAT 18" IN A TERMINATION TRENCH, FILL AND COMPACT TERMINATION TRENCH WITH A COHESIVE FILL.

GUIDANCE TABLE FOR STORMWATER
OUTFALL PROTECTION

PIPE DIAMETER	8 CFS	5.5'	5'
18"	20 CFS	8'	8'
24"	30 CFS	8'	10'
36"	75 CFS	12'	16'
48"	100 CFS	16'	20'
60"	150 CFS	20'	25'

*CONSULT
MANUFACTURER FOR
GUIDANCE IF DESIGN
DISCHARGE VARIES
SIGNIFICANTLY FROM
VALUES LISTED IN
TABLE.
*LENGTH OF
PROTECTION WILL
VARY ON THE LENGTH
OF SLOPE, DEGREE
OF SLOPE, OR IF IT IS
DISCHARGING ONTO A
FLAT AREA. OUTFALLS
DISCHARGING ONTO
SLOPES, INCLUDING TO
RECORD, SHOULD TO
EXTEND FLEXAMAT
PLUS THE LENGTH OF
THE SLOPE AND 3'
PAST THE TOE.

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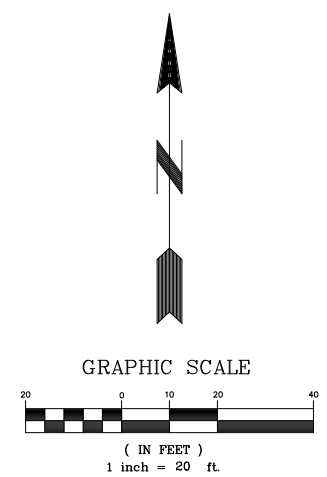
CITY OF BAXTER, MINNESOTA

FLEXAMAT - OUTLET ARMORING

PUBLIC WORKS DEPARTMENT

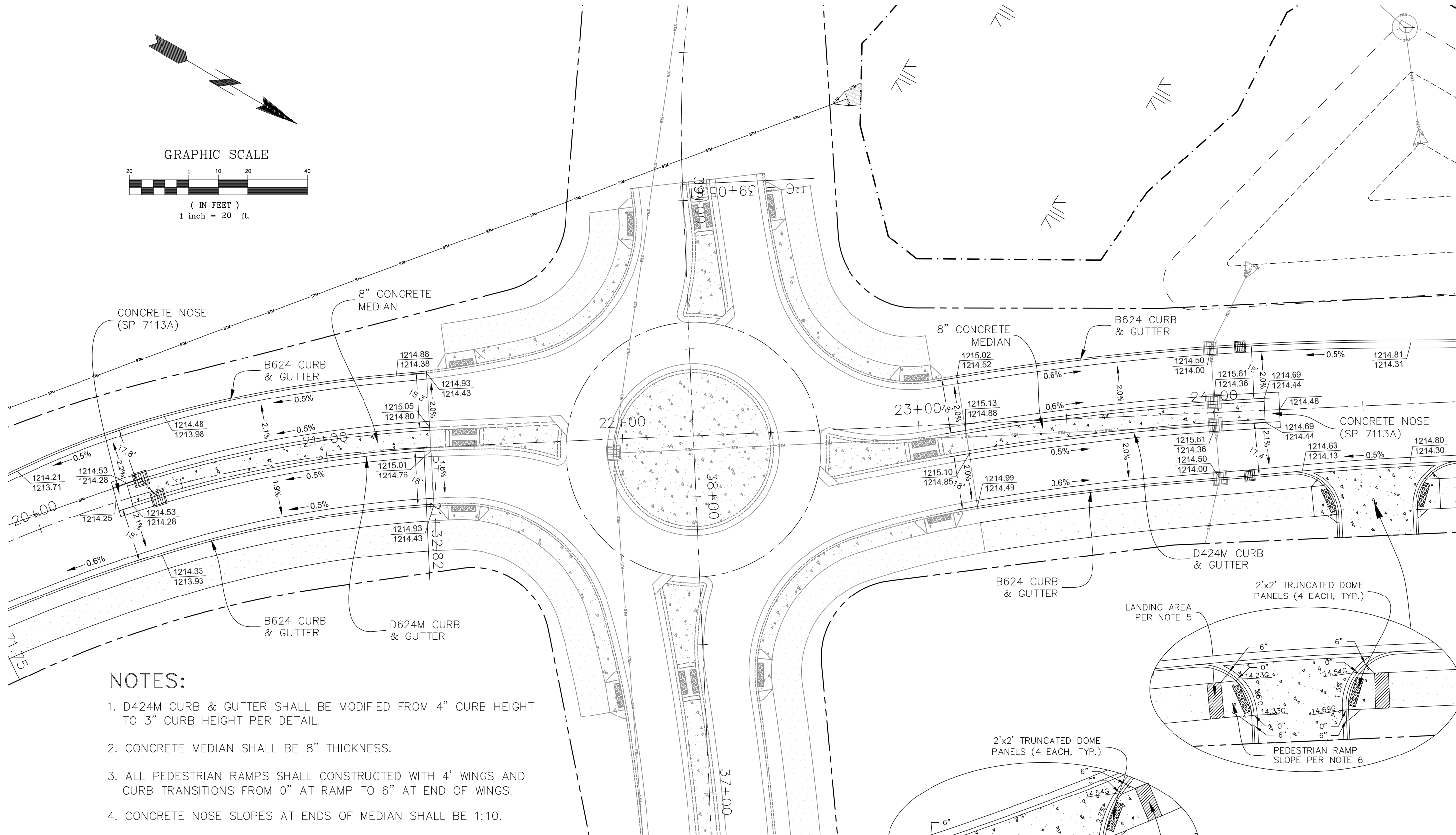
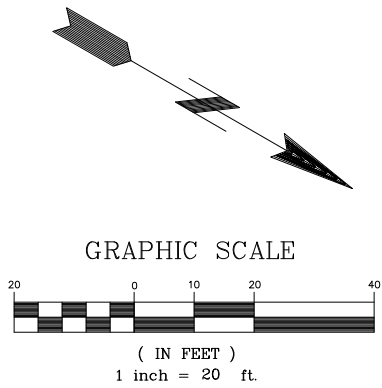
REV. 3-25

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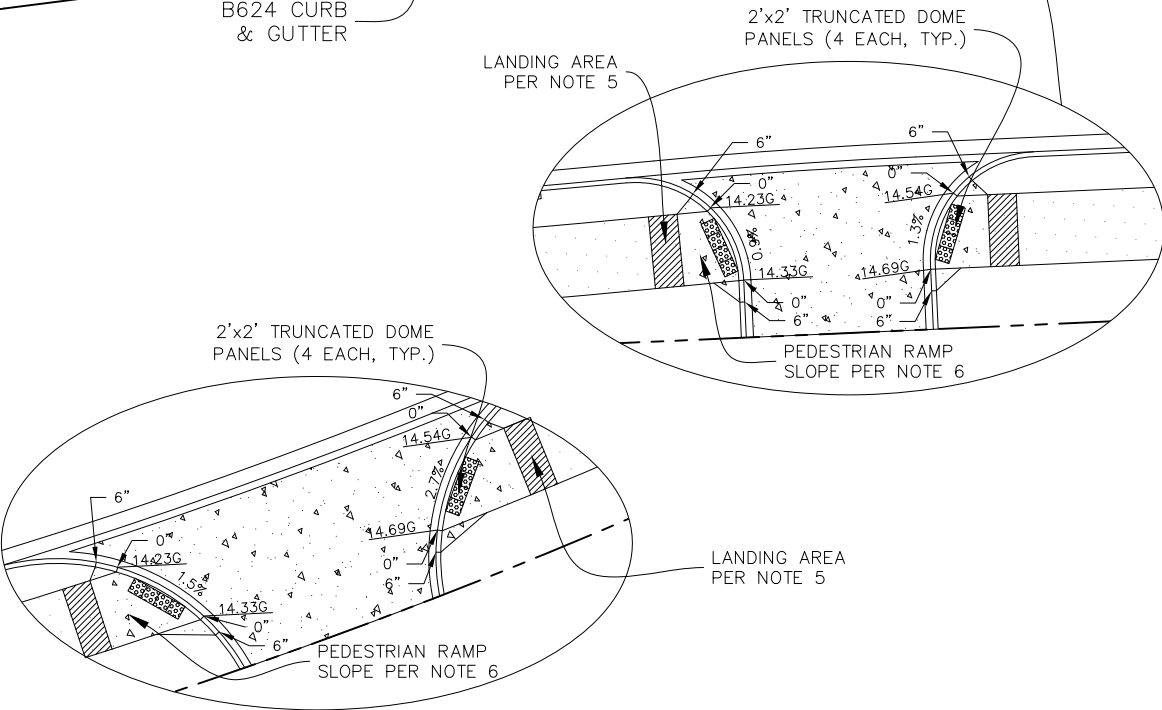
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2. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL CONFIRM ALL LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT UTILITY COMPANIES VIA GOPHER STATE ONE-CALL ONLINE OR BY CALLING 811 OR 1-800-252-1166.
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4. CONTRACTOR SHALL PROTECT ALL EXISTING SANITARY SEWER, WATERMAINS AND SERVICES NOT MARKED FOR REMOVAL.
5. ALL EXISTING STREETS SHALL BE SAWCUT AT MATCH POINTS.
6. STRIP EXISTING TOPSOIL WITHIN RIGHT-OF-WAY AND STOCKPILE ONSITE.

LAKE FOREST AND NOVOTNY ROAD



NOTES:

1. D424M CURB & GUTTER SHALL BE MODIFIED FROM 4" CURB HEIGHT TO 3" CURB HEIGHT PER DETAIL.
2. CONCRETE MEDIAN SHALL BE 8" THICKNESS.
3. ALL PEDESTRIAN RAMPS SHALL CONSTRUCTED WITH 4' WINGS AND CURB TRANSITIONS FROM 0" AT RAMP TO 6" AT END OF WINGS.
4. CONCRETE NOSE SLOPES AT ENDS OF MEDIAN SHALL BE 1:10.
5. LANDING AREA SHALL BE 4'x4' MIN. DIMENSIONS AND MAX. SLOPE OF 2.0% IN ALL DIRECTIONS.
6. PEDESTRIAN RAMP SLOPE SHALL BE BETWEEN 5% MIN. AND 8.3% MAX. WITH 2% MAX. CROSS SLOPE.



DRIVEWAY @ CL STA 16+16.6

www.starkengineer.com
320-249-2611
Sauk Rapids, Minnesota

STARK
ENGINEERING

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Engineer under the laws of the State of Minnesota.

W. C. Stark 7/27/26 26093
Date Registration No.

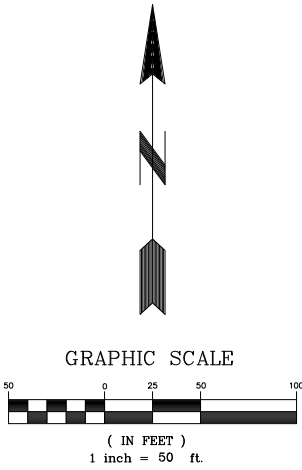
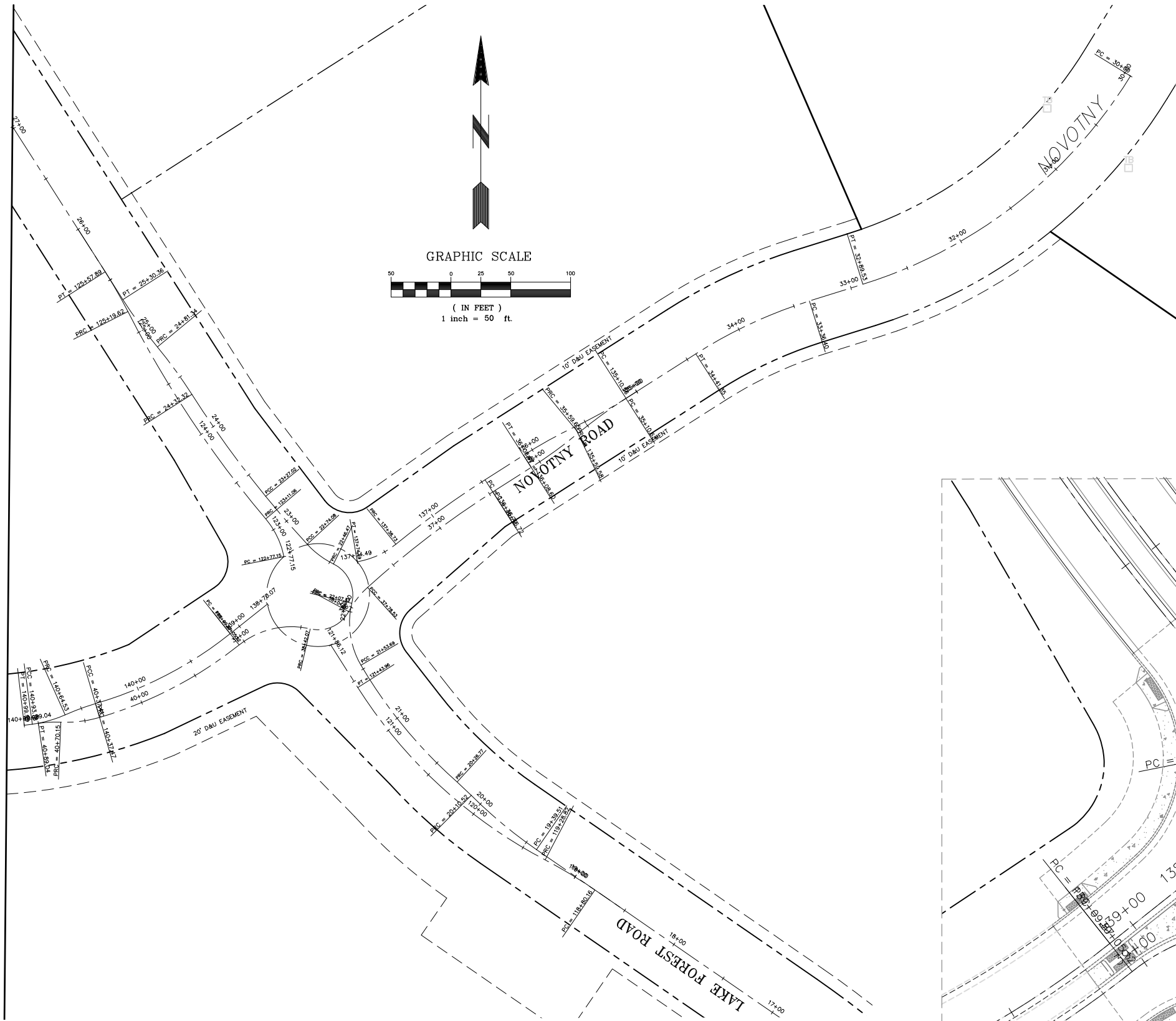
REVISIONS	4/14/26	CONST.	DOC.
	7/27/26	PRE	REVIEW

ROUNDABOUT DETAILS

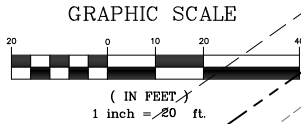
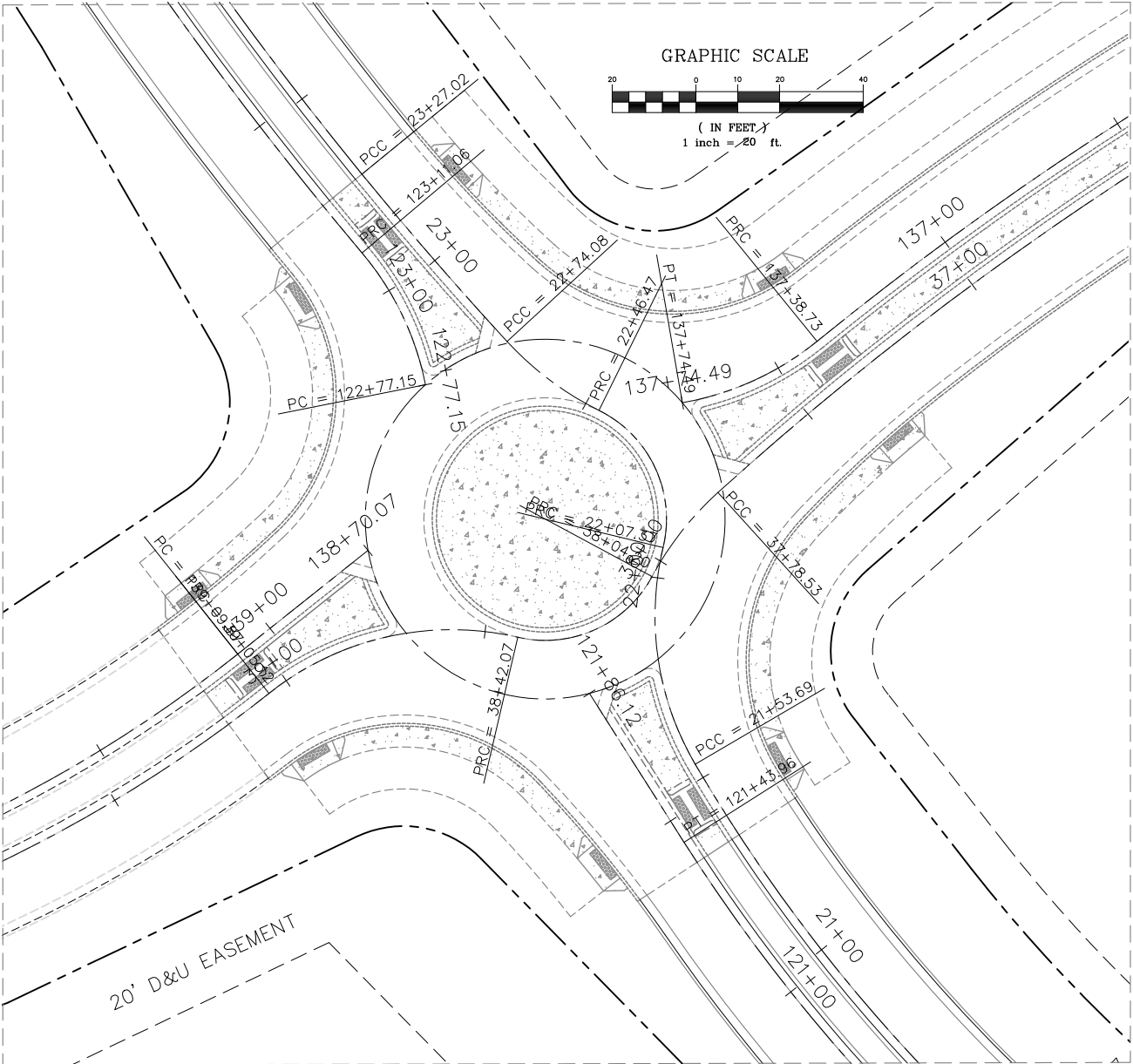
2026 LAKE FOREST ROAD IMP.
BAXTER, MINNESOTA
for: 15521 EDGEWOOD DRIVE, LLC

C-13

OF 28 SHEETS



ROUNDAABOUT ALIGNMENT



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Engineer under the laws of the State of Minnesota.

Table with 4 columns: REVISIONS, 4/14/26, CONST. DOC, 7/27/26, PER REVIEW.

LAKE FOREST ROAD IMP. BAXTER, MINNESOTA for: 15521 EDGEWOOD DR, LLC

2026 LAKE FOREST ROAD IMP. BAXTER, MINNESOTA for: 15521 EDGEWOOD DR, LLC



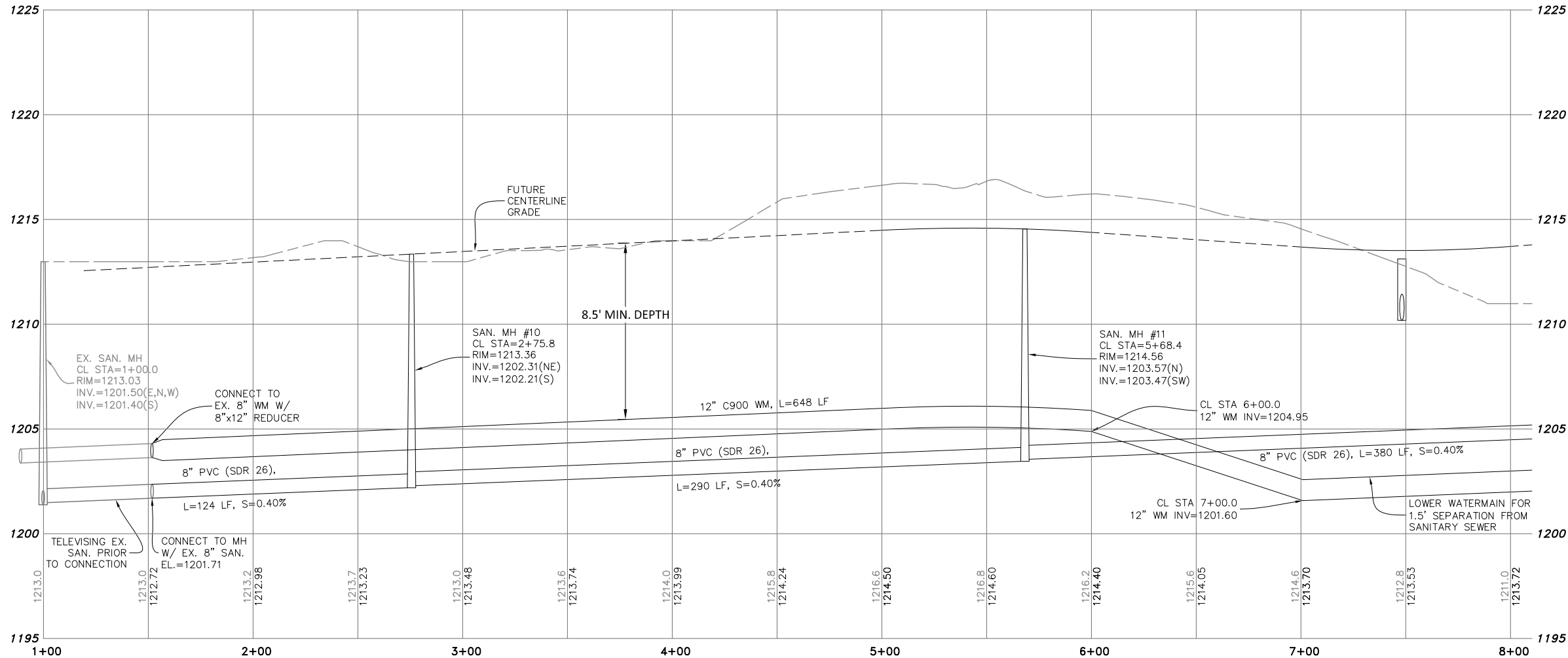
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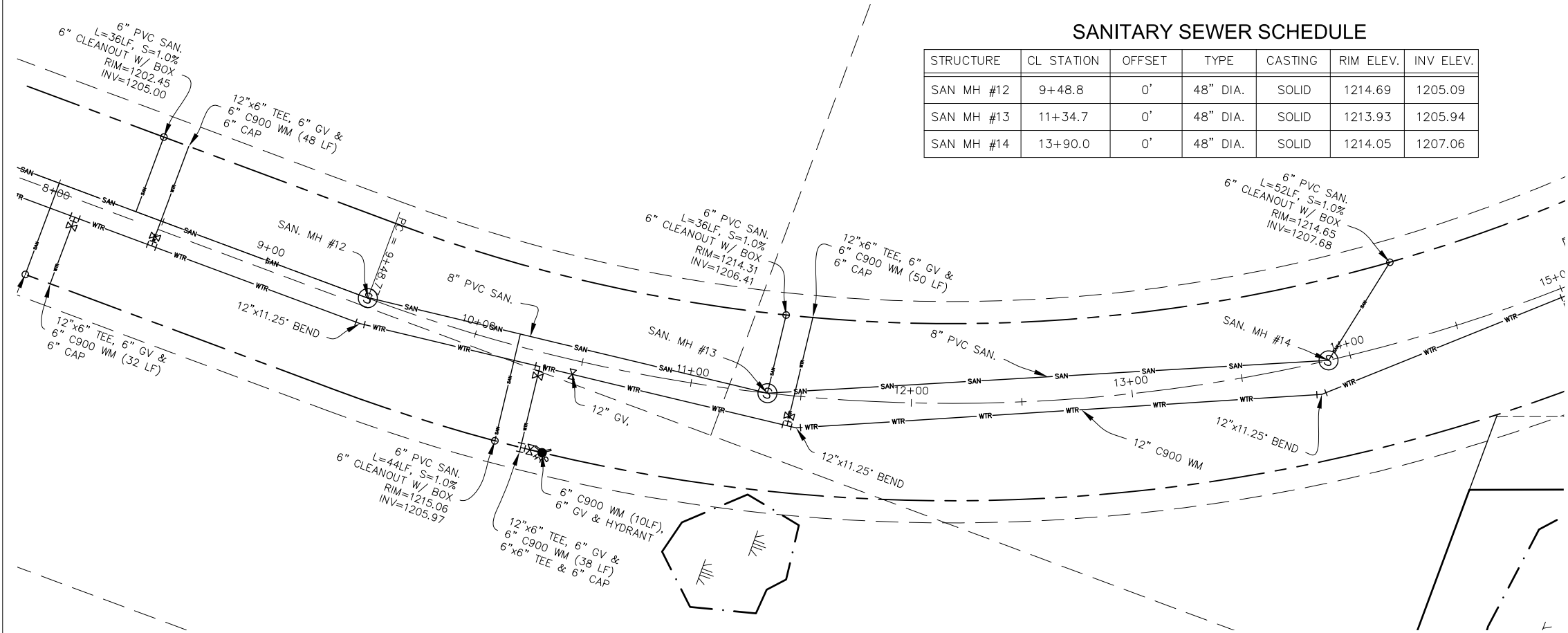
(IN FEET)

1 inch = 30 ft.

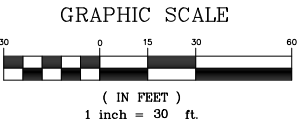
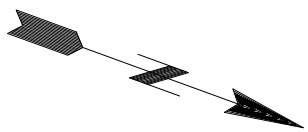
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4. 10' MINIMUM SEPARATION REQUIRED BETWEEN WATERMAIN AND SANITARY SEWER.



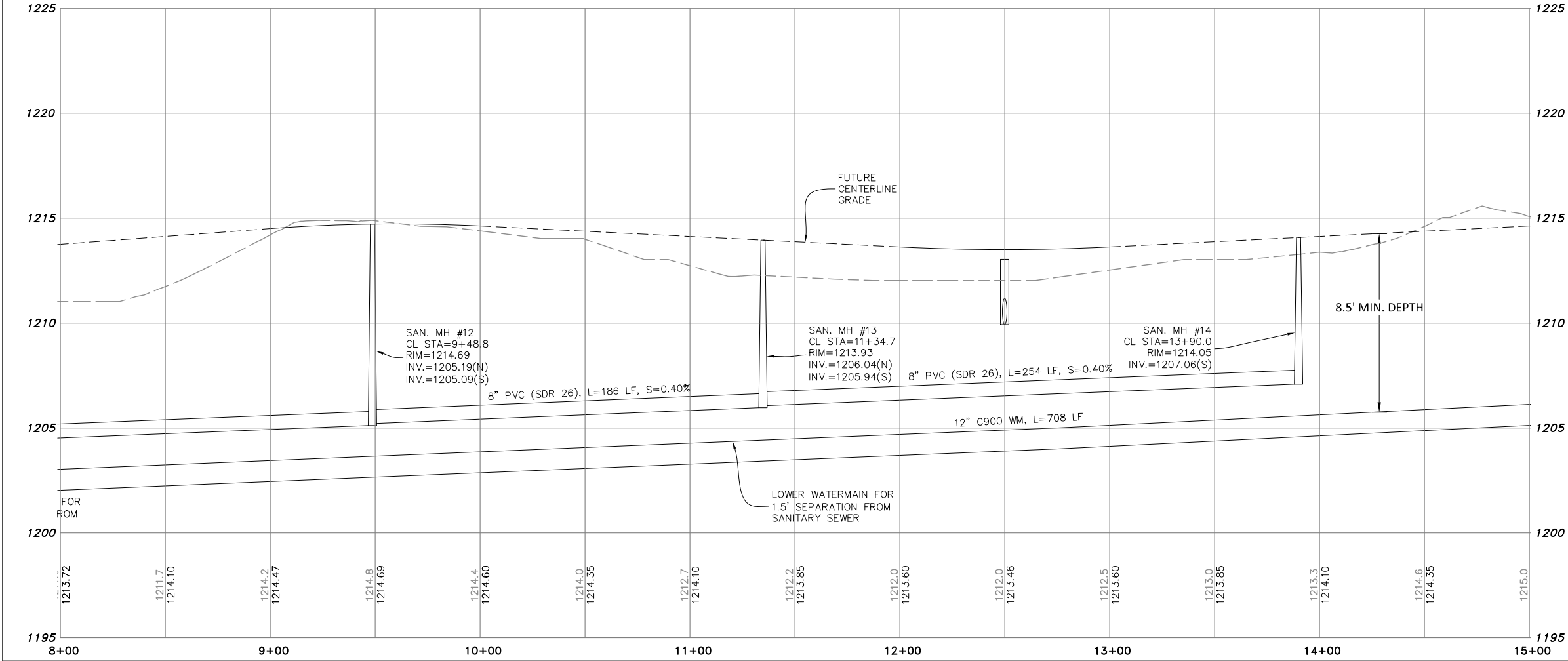


SANITARY SEWER SCHEDULE						
STRUCTURE	CL STATION	OFFSET	TYPE	CASTING	RIM ELEV.	INV. ELEV.
SAN MH #12	9+48.8	0'	48" DIA.	SOLID	1214.69	1205.09
SAN MH #13	11+34.7	0'	48" DIA.	SOLID	1213.93	1205.94
SAN MH #14	13+90.0	0'	48" DIA.	SOLID	1214.05	1207.06

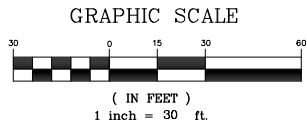
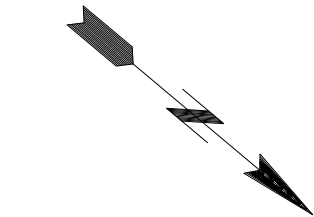
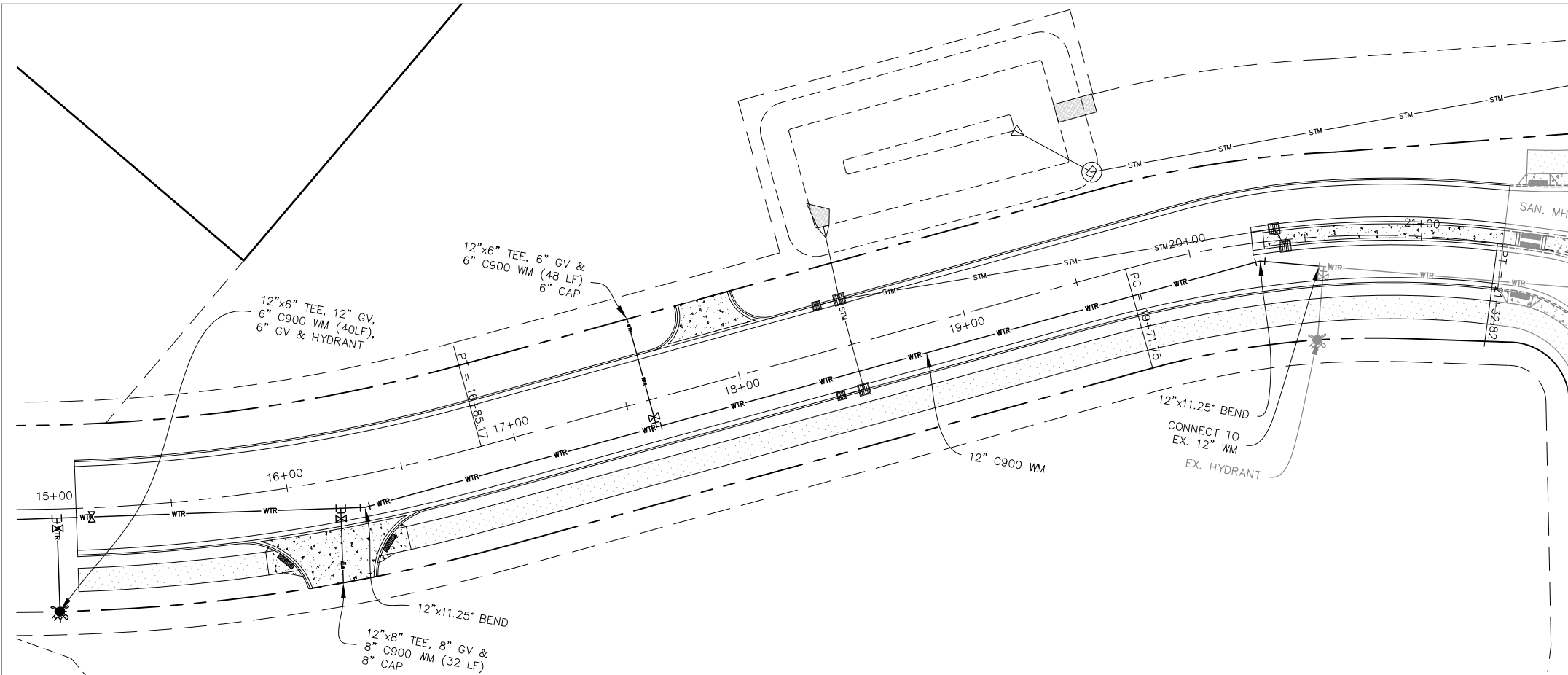


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 4. 10' MINIMUM SEPARATION REQUIRED BETWEEN WATERMAIN AND SANITARY SEWER.

LAKE FOREST ROAD - SANITARY & WATERMAIN



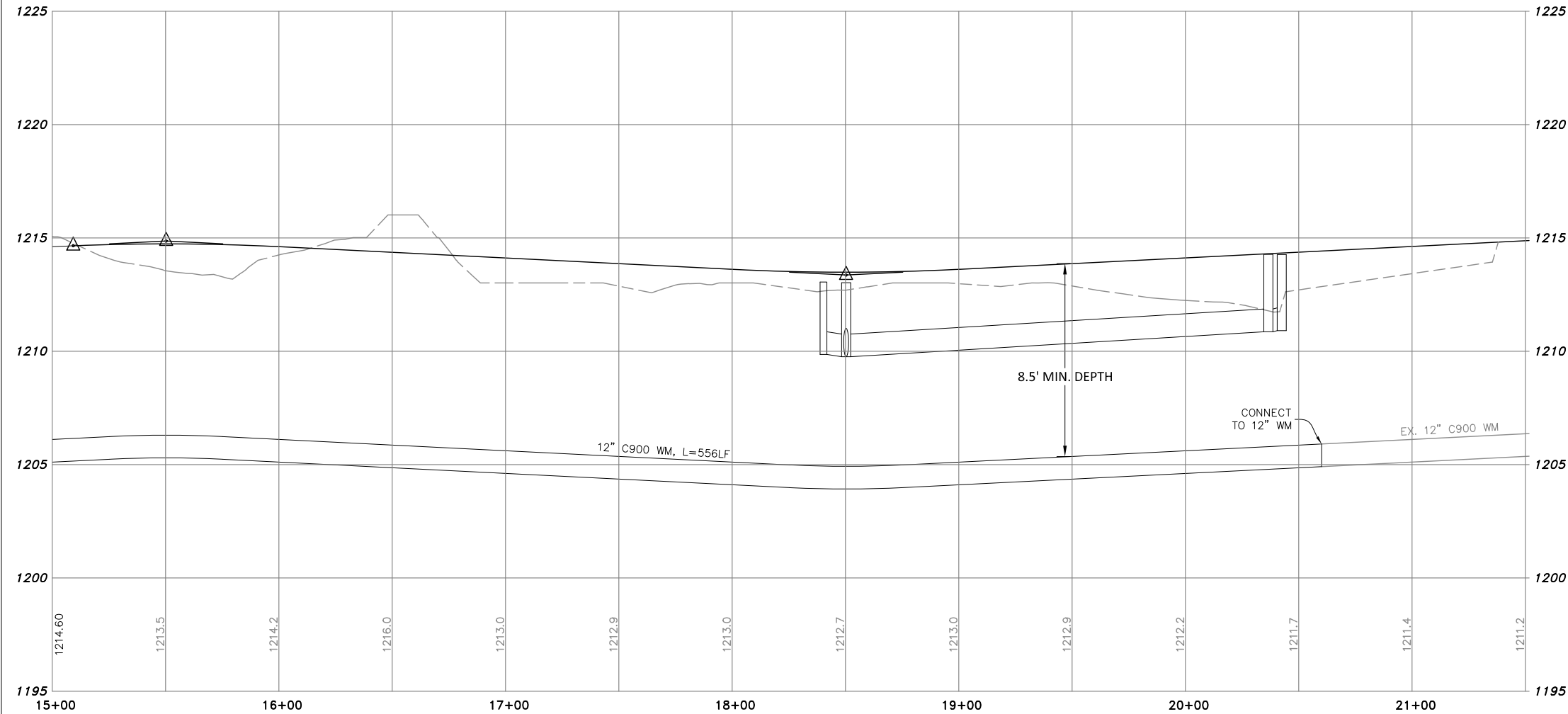
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LAKE FOREST ROAD - SANITARY & WATERMAIN



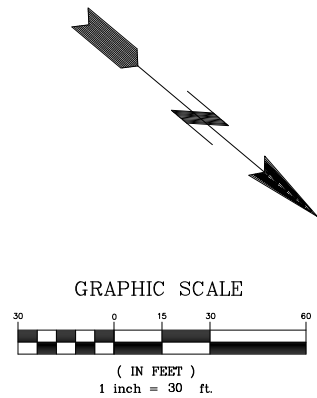
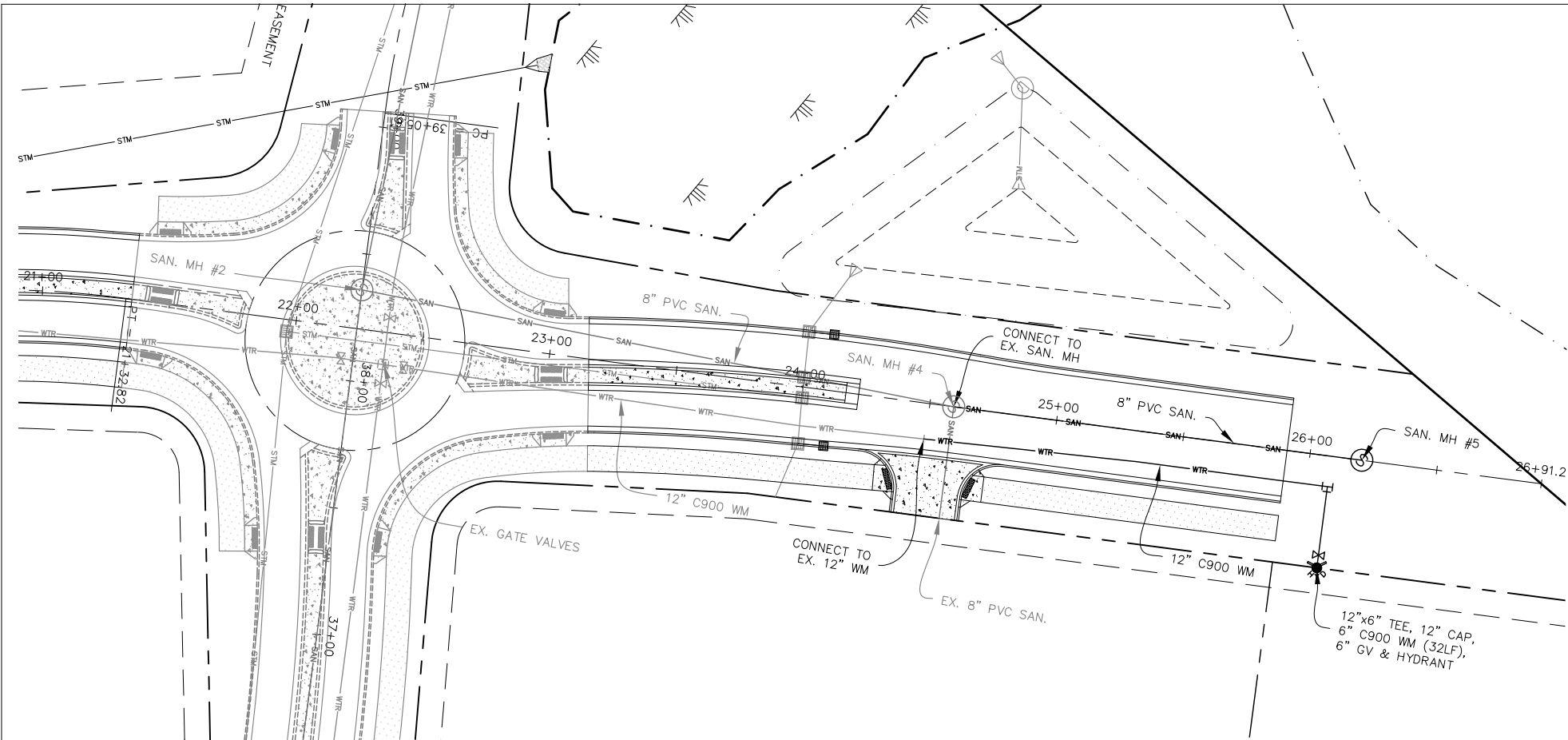
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Wm C Stark 7/27/26 26093
Wm C Stark Registration No.

REVISIONS			
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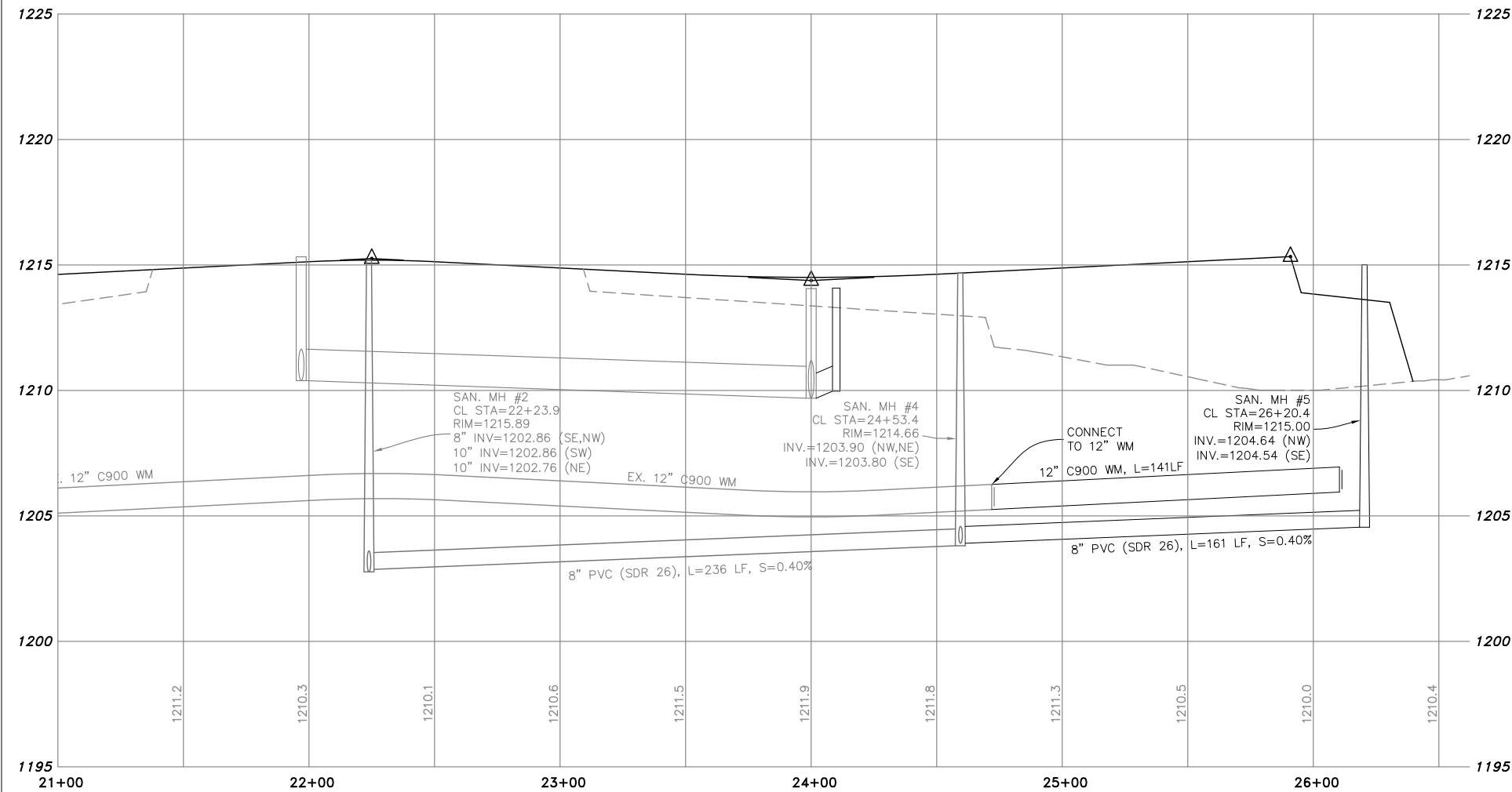
LAKE FOREST ROAD -
SANITARY & WATERMAIN
PLAN & PROFILE

2026 LAKE FOREST ROAD IMP.
BAXTER, MINNESOTA
for:
15521 EDGEWOOD DR, LLC



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LAKE FOREST ROAD - SANITARY & WATERMAIN



SANITARY SEWER SCHEDULE

STRUCTURE	CL STATION	OFFSET	TYPE	CASTING	RIM ELEV.	INV ELEV.
SAN MH #5	26+20.4	0'	48" DIA.	SOLID	1215.00	1204.54

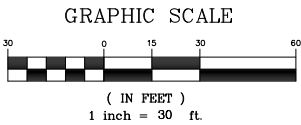
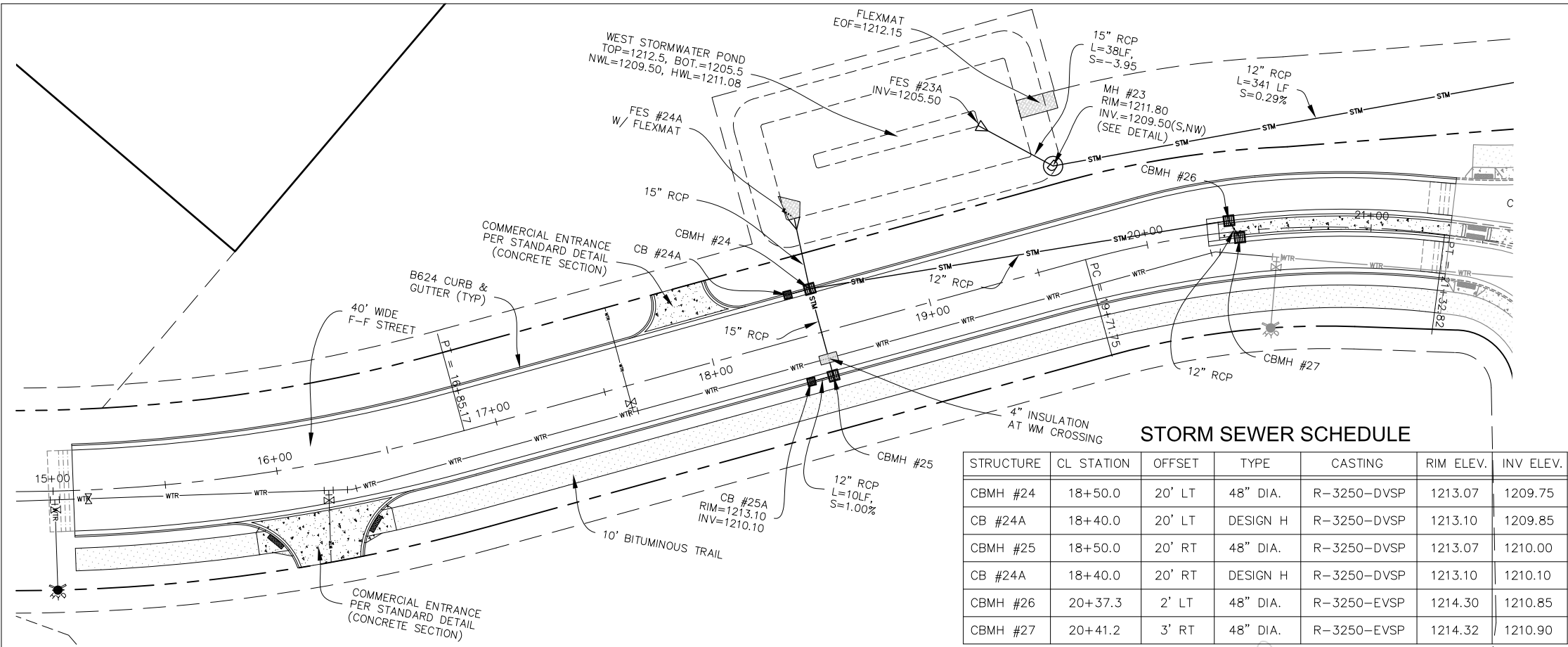
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7/27/26 26093
Date Registration No.

REVISIONS	CITY REVIEW	CONST. DOC.	PER REVIEW
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LAKE FOREST ROAD IMP.
BAXTER, MINNESOTA
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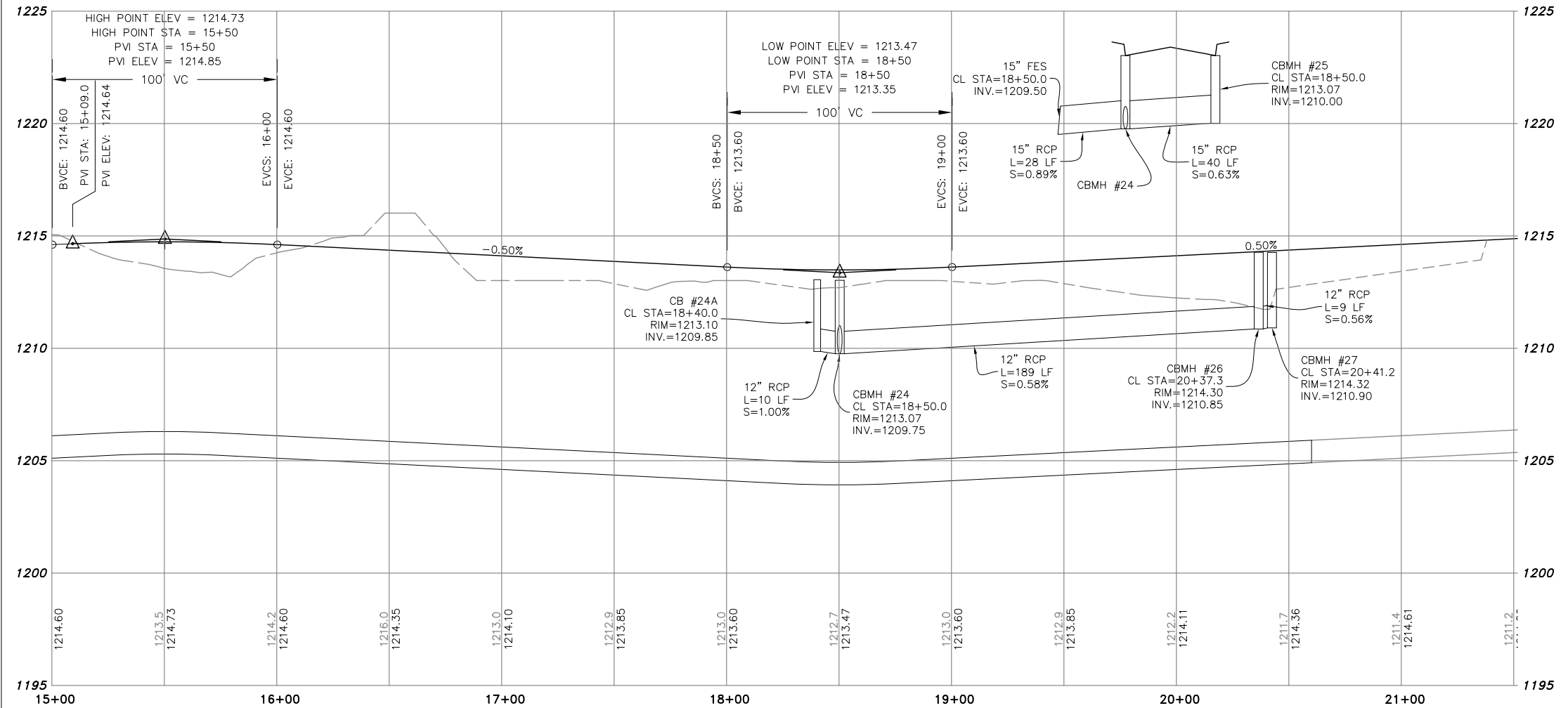
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STORM SEWER SCHEDULE

STRUCTURE	CL STATION	OFFSET	TYPE	CASTING	RIM ELEV.	INV. ELEV.
CBMH #24	18+50.0	20' LT	48" DIA.	R-3250-DVSP	1213.07	1209.75
CB #24A	18+40.0	20' LT	DESIGN H	R-3250-DVSP	1213.10	1209.85
CBMH #25	18+50.0	20' RT	48" DIA.	R-3250-DVSP	1213.07	1210.00
CB #24A	18+40.0	20' RT	DESIGN H	R-3250-DVSP	1213.10	1210.10
CBMH #26	20+37.3	2' LT	48" DIA.	R-3250-EVSP	1214.30	1210.85
CBMH #27	20+41.2	3' RT	48" DIA.	R-3250-EVSP	1214.32	1210.90

LAKE FOREST ROAD - STREET & STORM SEWER



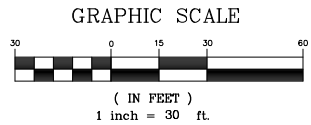
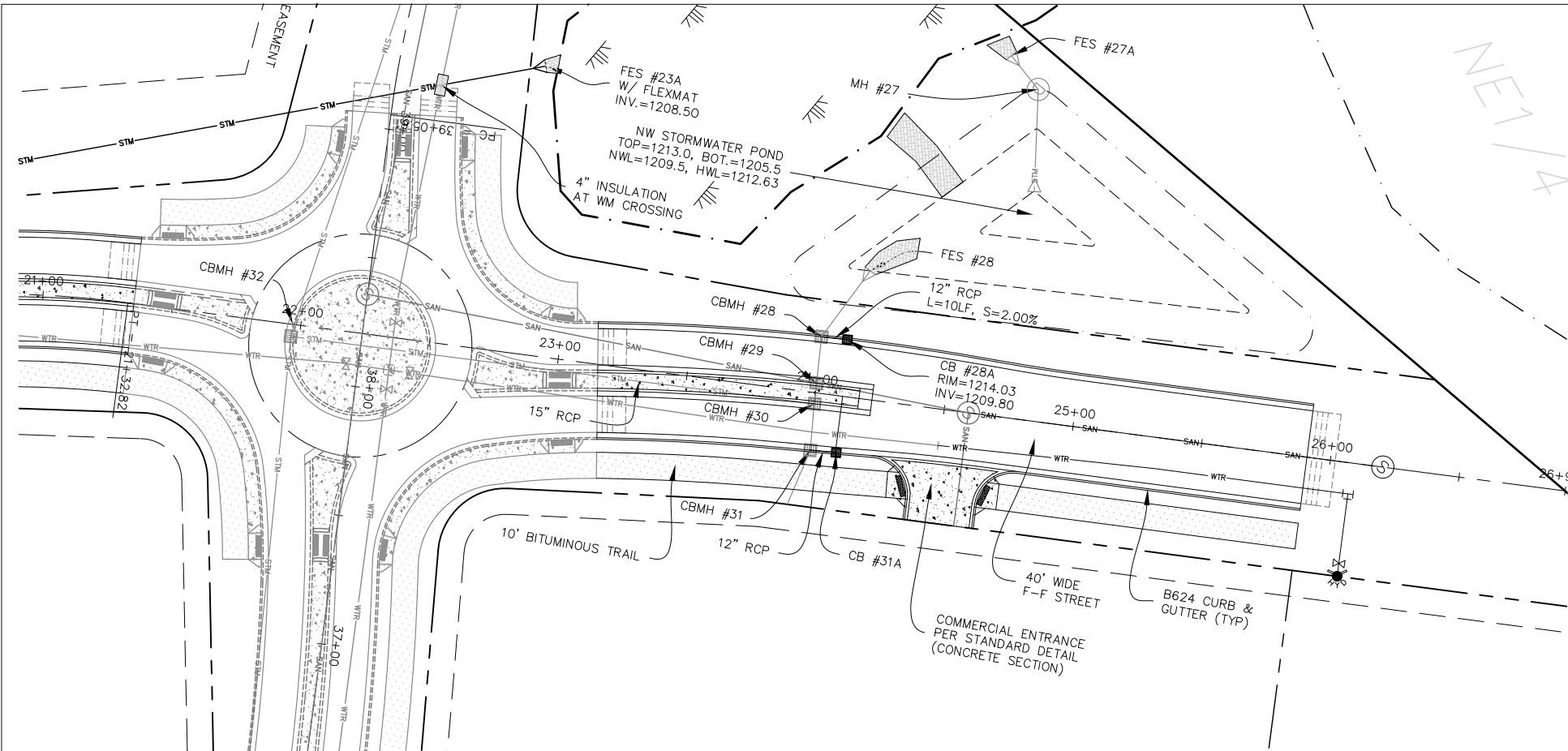
I hereby certify that this plan, specification and all data hereon are true and correct to the best of my knowledge and belief, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

[Signature]
Date: 7/27/26 Registration No. 26093

REVISIONS	CITY REVIEW	DOC.
11/10/25	4/14/26	7/27/26

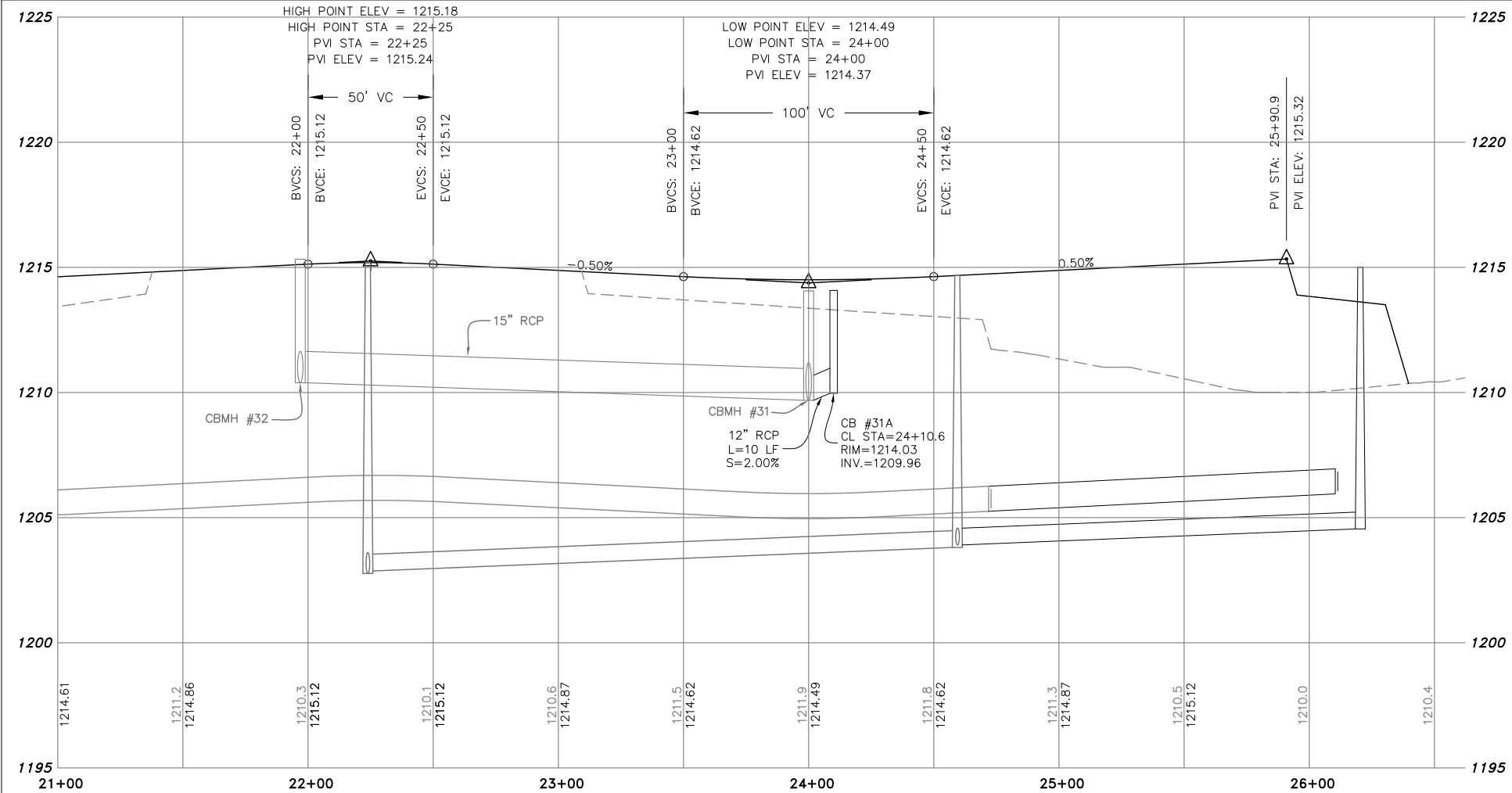
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LAKE FOREST ROAD - STREET & STORM SEWER



STORM SEWER SCHEDULE

STRUCTURE	CL STATION	OFFSET	TYPE	CASTING	RIM ELEV.	INV ELEV.
CB #28A	24+10.0	20' LT	DESIGN H	R-3250-DVSP	1214.03	1209.80
CB #31A	24+10.0	20' RT	DESIGN H	R-3250-DVSP	1214.03	1209.96

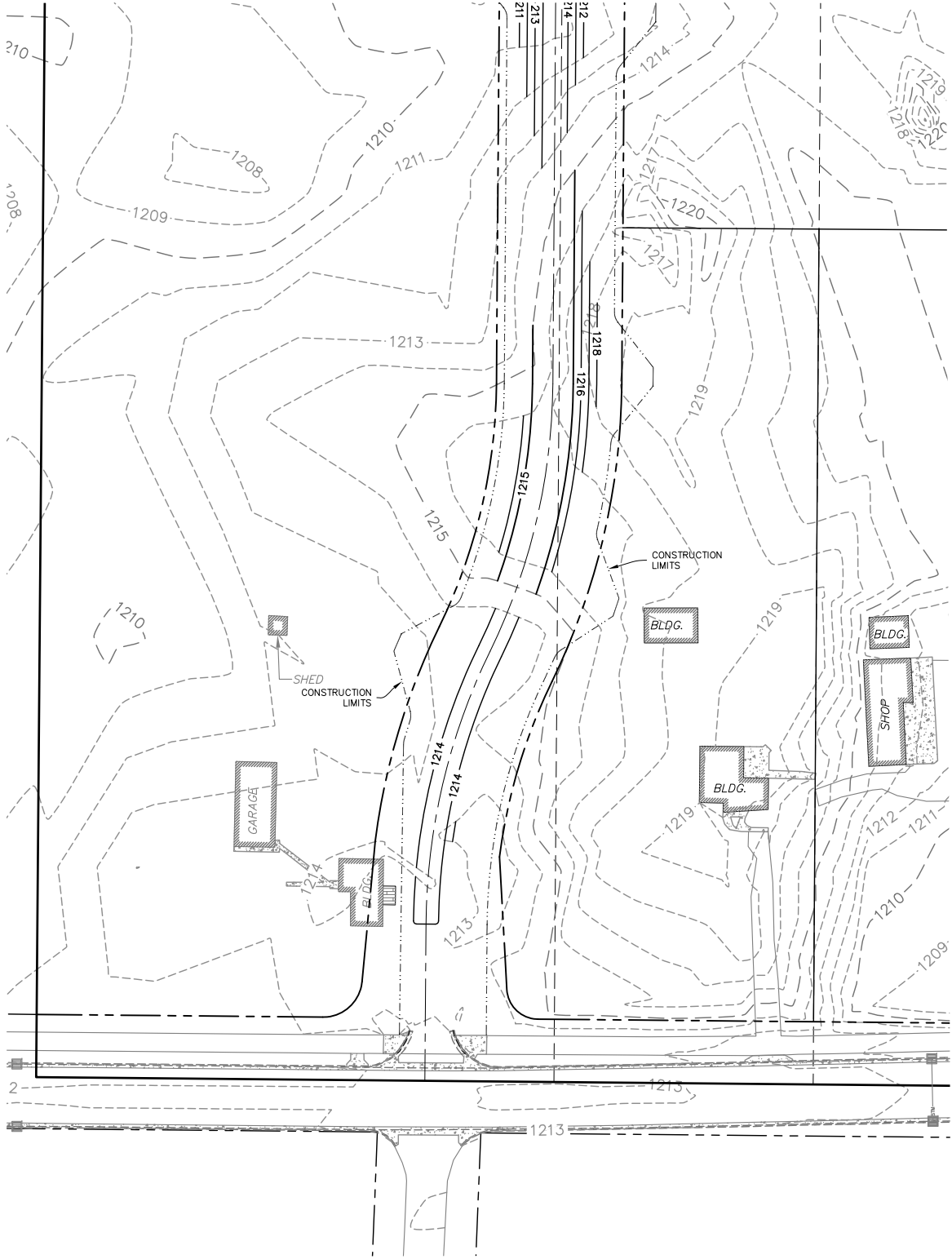
I hereby certify that this plan, specification and schedule of values were prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

W. C. Stark 7/27/26 26093
W. C. Stark Date Registration No.

REVISIONS	DATE	BY	REVIEW
11/10/25	CITY REVIEW		
4/14/26	CONST. DOC.		
7/27/26	PER REVIEW		

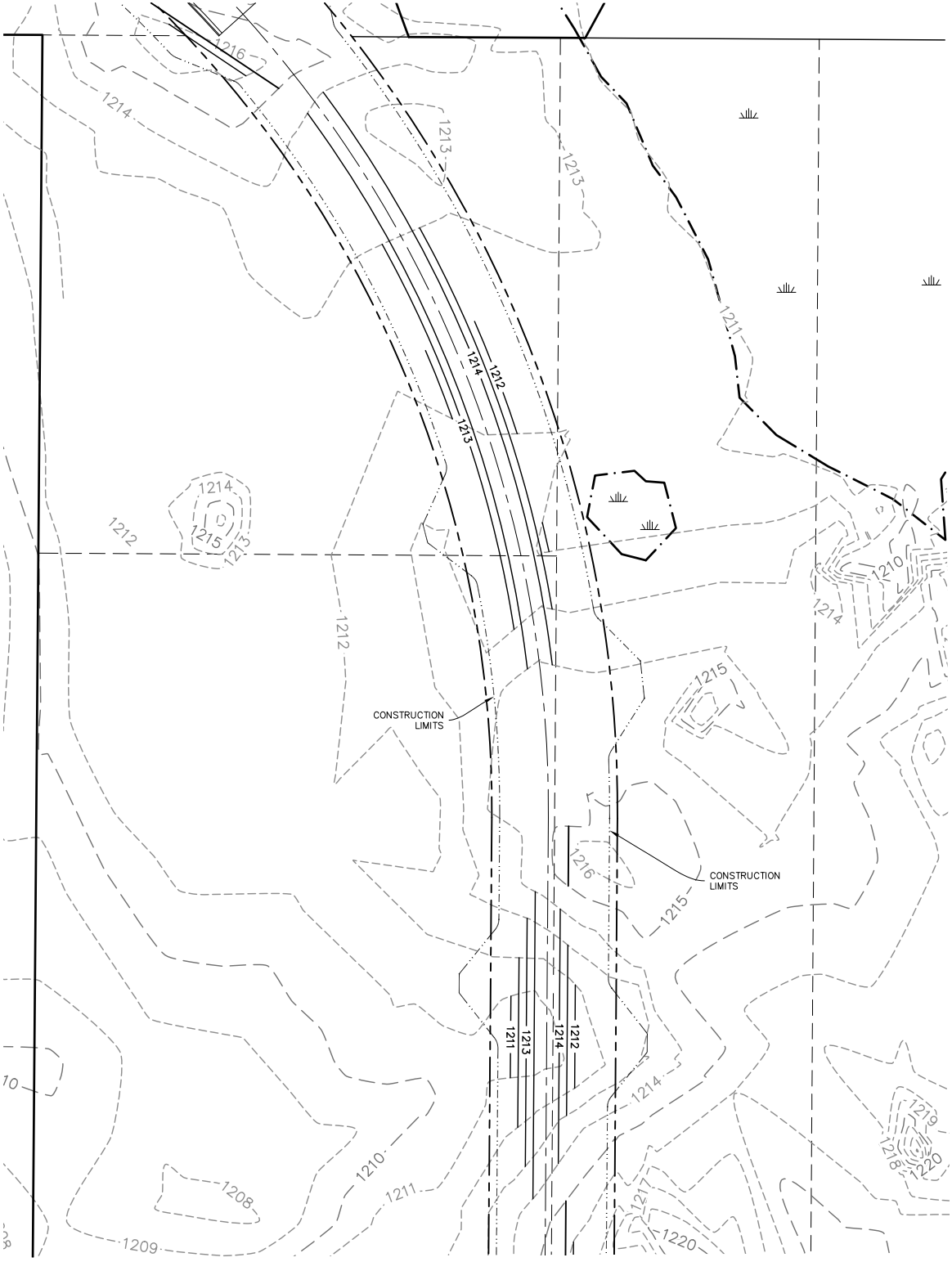
LAKE FOREST ROAD -
STREET & STORM SEWER
PLAN & PROFILE

2026 LAKE FOREST ROAD IMP.
BAXTER, MINNESOTA
for:
15521 EDGEWOOD DR, LLC



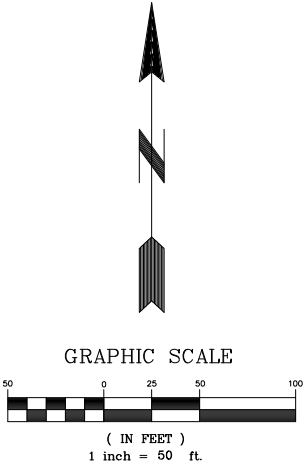
NOTES:

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3. ALL CONSTRUCTION SHALL CONFORM TO THE MOST RESTRICTIVE OF THE PROJECT SPECIFICATIONS, THE STANDARD SPECIFICATIONS OF THE CITY OF BAXTER AND THE LATEST EDITION OF MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.
4. SEE SHEET C-25 FOR THE SEQUENCE AND PROTOCOLS TO BE FOLLOWED FOR EROSION AND SEDIMENT CONTROL DURING THE SITE DEVELOPMENT PROCESS.



GRADING NOTES:

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATIONS, AND RIM AND INVERT ELEVATIONS, OF EXISTING DRAINAGE AND SANITARY STRUCTURES. LOCATION AND SIZE OF EXISTING SANITARY, WATER, AND STORM SEWER STUBS, AND EXISTING GRADES SHALL ALSO BE VERIFIED.
2. EXISTING TOPOGRAPHICAL INFORMATION WAS OBTAINED FROM A TOPOGRAPHICAL SURVEY FROM ARRO LAND SURVEYING OF BRAINERD, INC.
3. SITE BENCHMARK IS GSID STA.# A346 (NAVD 29 DATUM).
4. NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED BETWEEN THE EXISTING CONDITIONS AND THE CONDITIONS NOTED ON THE PLANS, WHICH ARE SIGNIFICANT ENOUGH TO ALTER THE INTENT OF THE DRAWINGS.
5. NOTIFY ALL UTILITY COMPANIES WITH UTILITIES IN THE PROJECT AREA BEFORE THE START OF CONSTRUCTION AND VERIFY LOCATIONS OF UTILITIES BEFORE BEGINNING WORK.
6. CONTRACTOR SHALL PERFORM CALCULATIONS TO VERIFY EARTHWORK QUANTITIES. CONTRACTOR'S BID/QUOTE SHALL BE BASED ON HIS/HER OWN EARTHWORK CALCULATIONS.
7. ALL PROPOSED ELEVATIONS ARE TOP OF PAVING, UNLESS NOTED OTHERWISE. PROPOSED ELEVATIONS ARE INTENDED TO PROVIDE POSITIVE DRAINAGE TOWARDS CULVERTS AND/OR OUTLETS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE REQUIRED ELEVATIONS, WHICH WILL PROMOTE POSITIVE DRAINAGE THROUGHOUT THE PROJECT SITE.
8. TOPSOIL SHALL BE RESPREAD IN THE SEEDING AREAS ONLY AT A MINIMUM DEPTH OF 6 INCHES.
9. ANY BITUMINOUS PAVEMENT OR CONCRETE REMOVED OR DEBRIS ENCOUNTERED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF THE R.O.W. AND EASEMENTS OF THE OWNER PER MNDOT SPECIFICATION 2104.3C3 OR RECYCLED PER MNDOT SPECIFICATIONS.



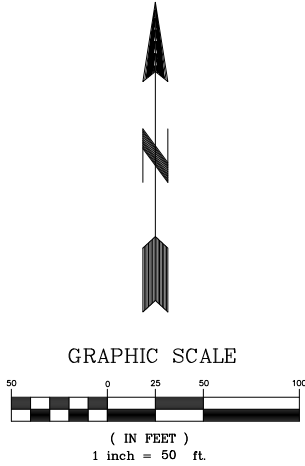
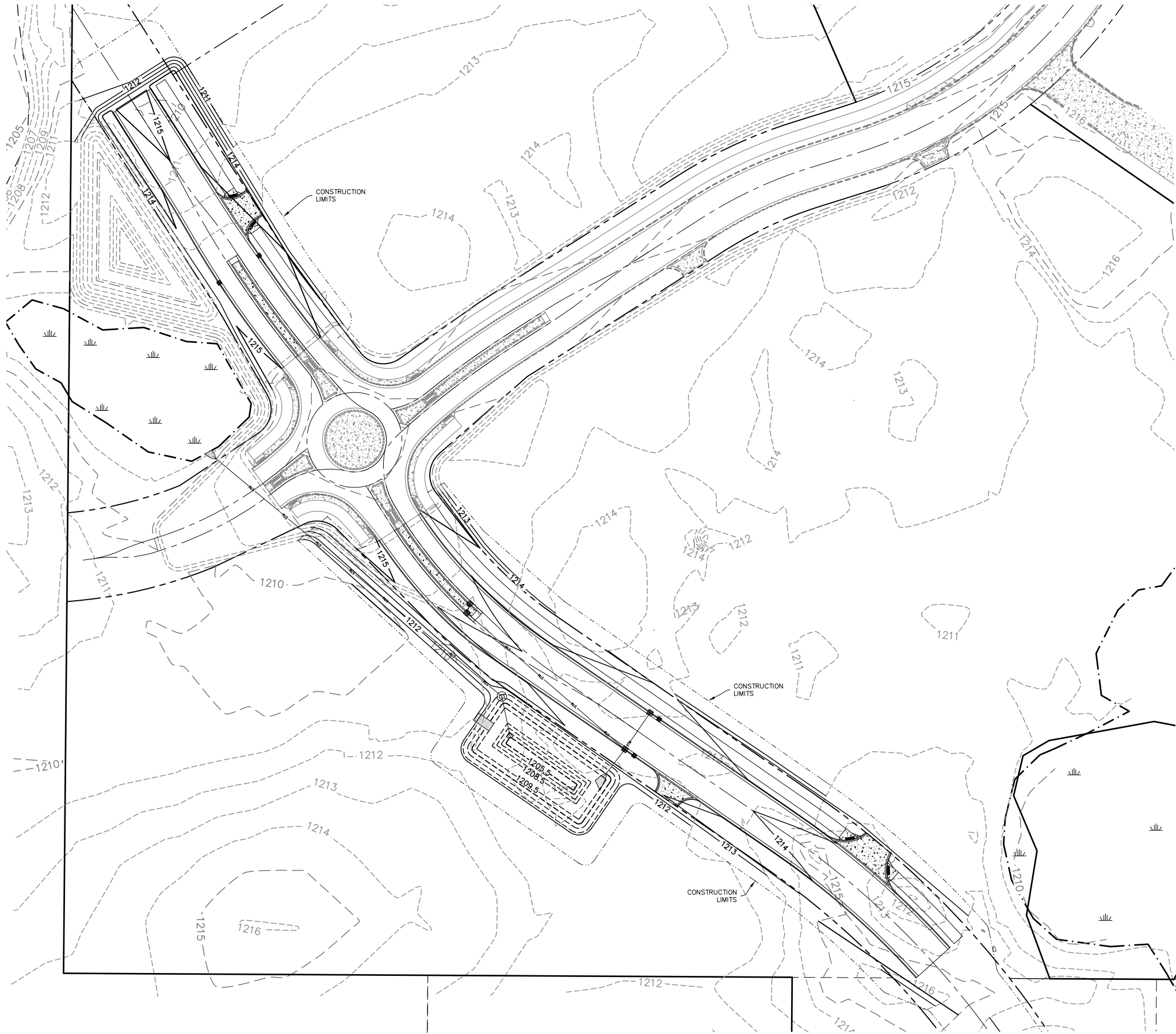
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Wm C Stark 7/27/26 26093
Date Registration No.

REVISIONS	CONST.	DOC.
4/14/26	7/27/26	PER REVIEW

GRADING & DRAINAGE
PLAN

2026 LAKE FOREST ROAD IMP.
BAXTER, MINNESOTA
for:
15521 EDGEWOOD DR, LLC



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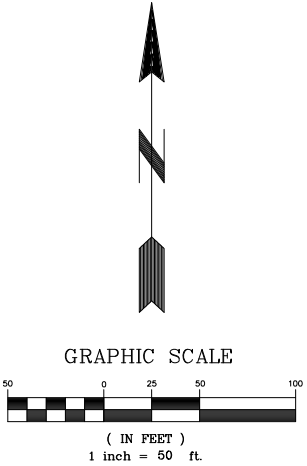
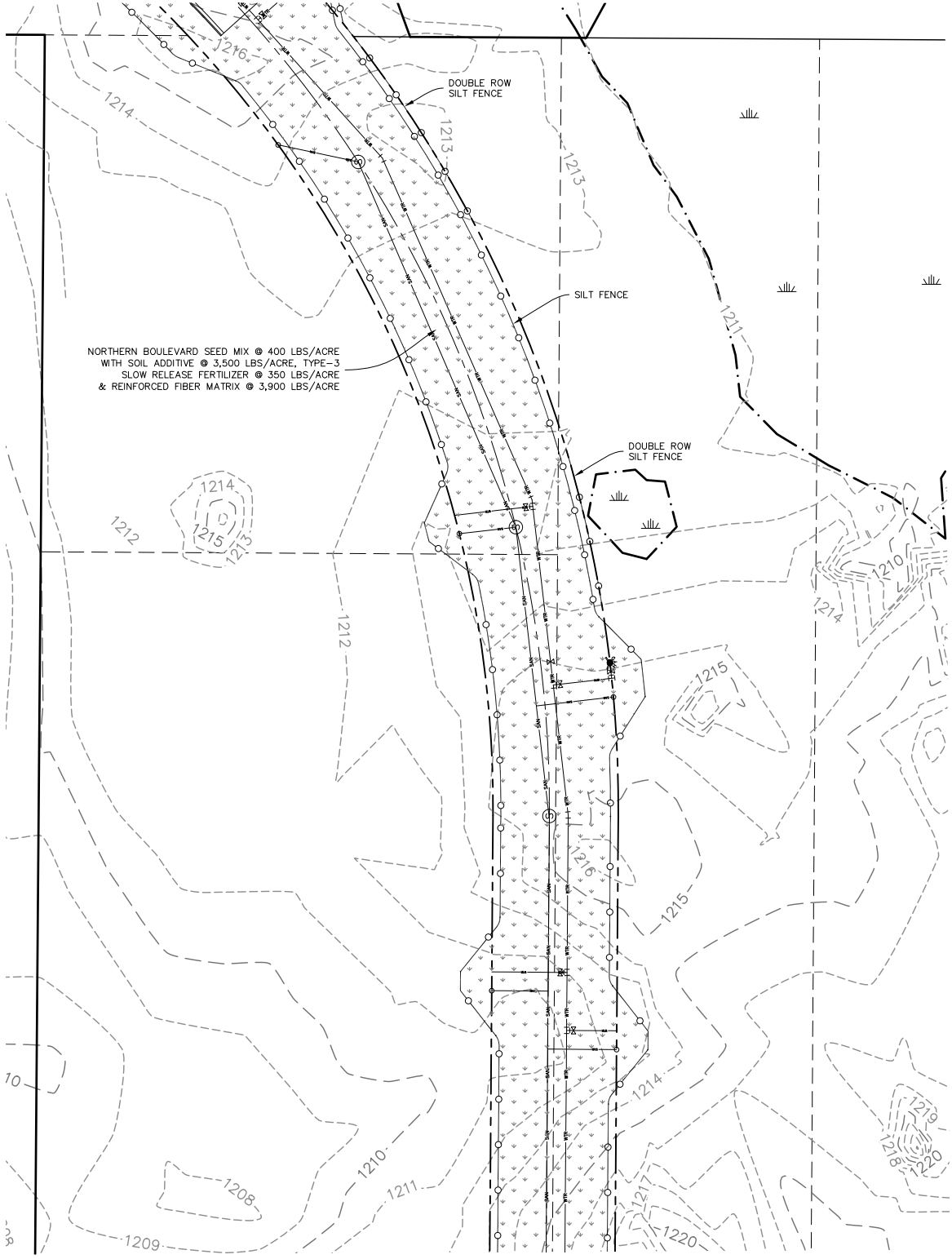
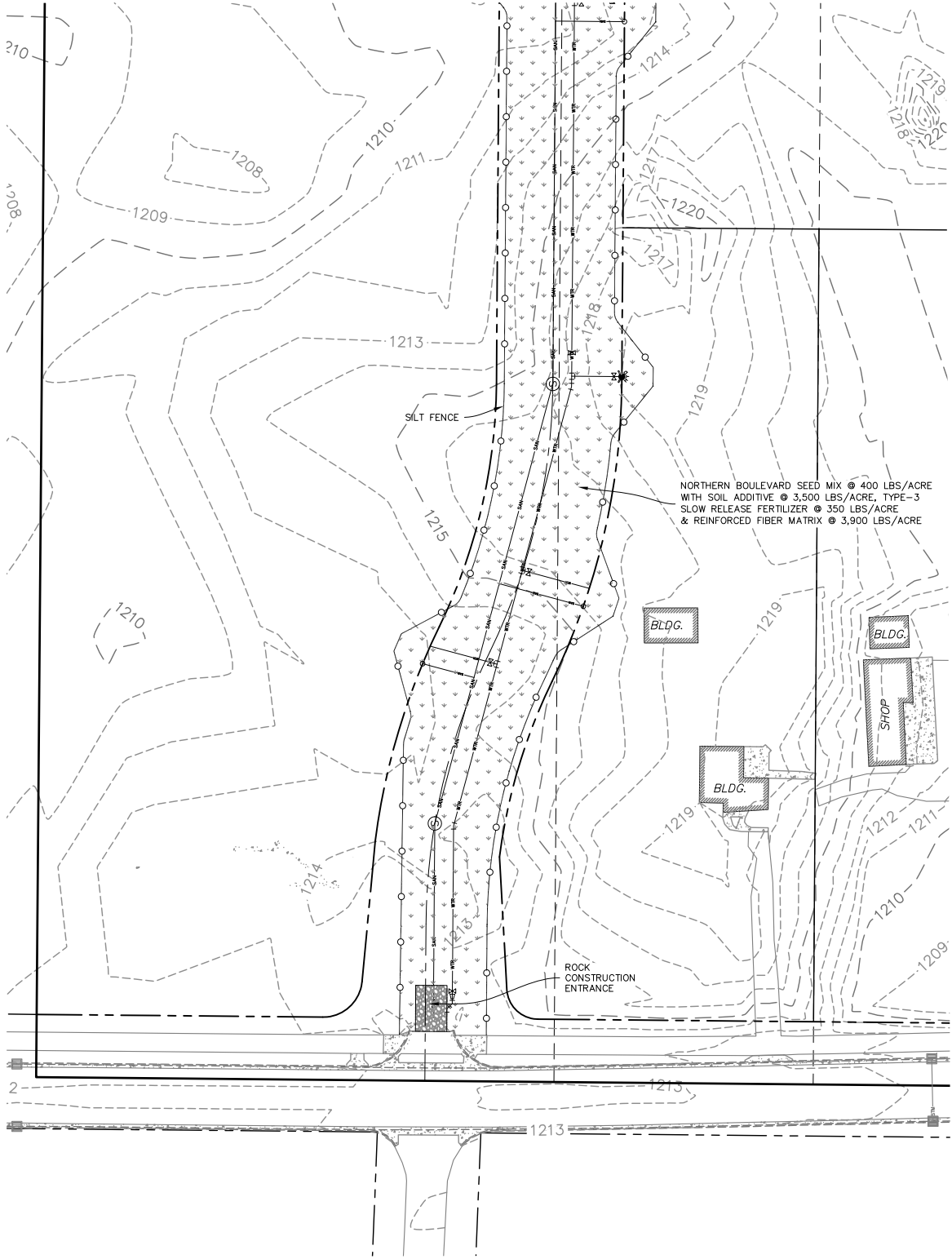
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- SURFACING NOTES:**
1. SUBGRADES SHALL BE SCARIFIED AND/OR COMPACTED AS NECESSARY TO ATTAIN THE REQUIRED COMPACTION DESCRIBED IN THE PROJECT SPECIFICATIONS. COMPACTION TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING FIRM.
 2. GRAVEL BASE COURSES SHALL BE ROLLED AND COMPACTED. TEST ROLLING OF THE GRAVEL BASE SHALL BE OBSERVED BY A SOILS ENGINEER TO VERIFY STABILITY.
 3. CONSTRUCTION OF PAVEMENT SECTION SHALL MEET CITY AND MNDOT SPECIFICATIONS.

REVISIONS	CONST.	DOC.
4/14/26	7/27/26	PER REVIEW

**GRADING & DRAINAGE
PLAN**

2026 LAKE FOREST ROAD IMP.
BAXTER, MINNESOTA
for:
15521 EDGEWOOD DR, LLC



NOTES:

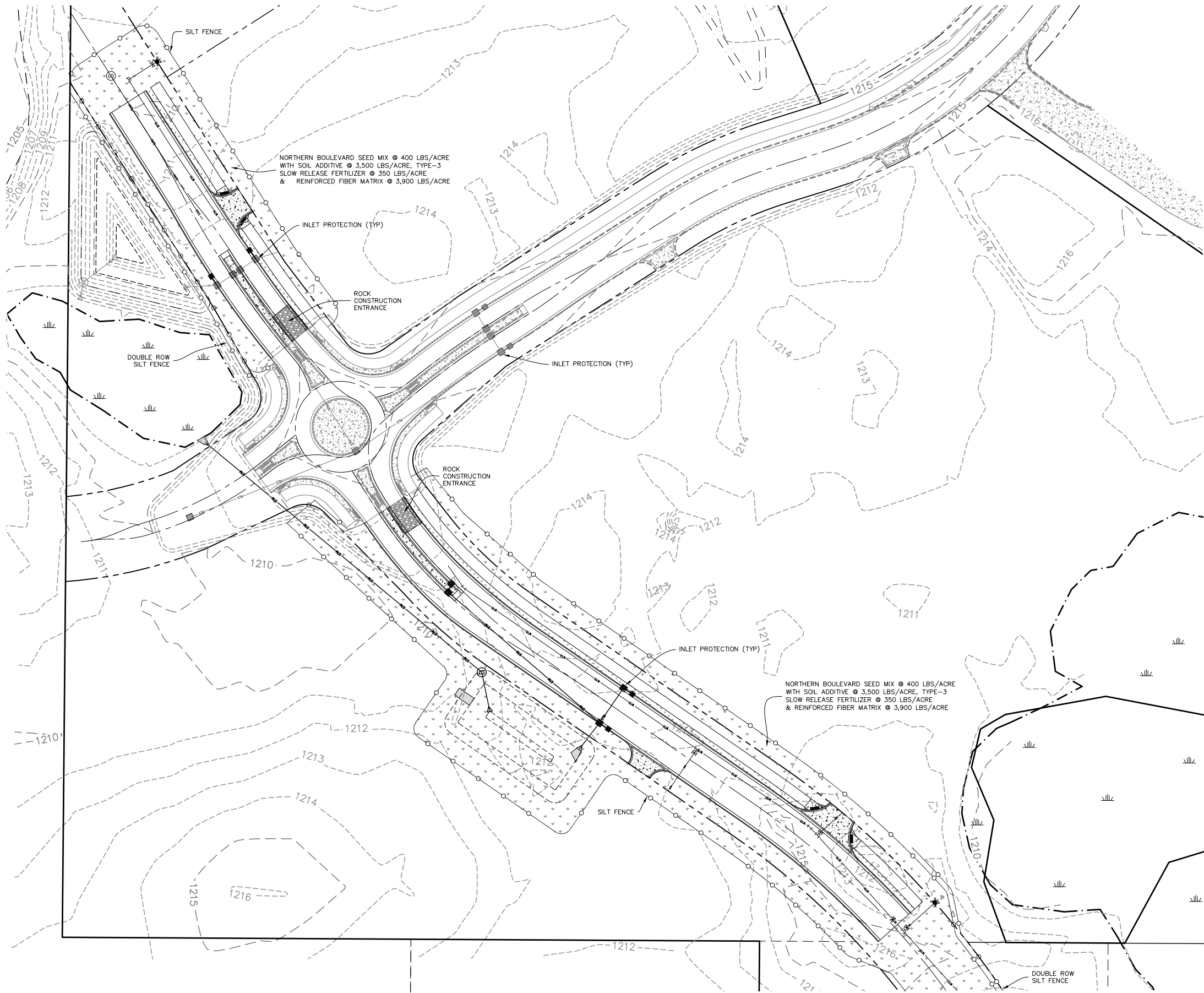
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Date 7/27/26 Registration No. 26093
Wine C Stark

REVISIONS	CONST.	DOC.
4/14/26	7/27/26	PER REVIEW

EROSION & SEDIMENT
CONTROL PLAN

2026 LAKE FOREST ROAD IMP.
BAXTER, MINNESOTA
for:
15521 EDGEWOOD DR, LLC



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2026 LAKE FOREST ROAD IMP.
BAXTER, MINNESOTA
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15521 EDGEWOOD DR, LLC

EROSION & SEDIMENT
CONTROL PLAN

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4/14/26		
7/27/26		

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W. Stark 7/27/26 26093
Date Registration No.

PROJECT INFORMATION:

1. PROJECT NAME: 2026 LAKE FOREST ROAD IMPROVEMENTS
PROJECT LOCATION: 7160 WOIDA ROAD, BAXTER, MINNESOTA
NW 1/4 & SW 1/4 OF SE 1/4 OF SEC. 31, TOWNSHIP 134, RANGE 28
N=46.372440°, E=-94.251211°
PROJECT SIZE: TOTAL=5.50 ACRES, DISTURBED=4.98 ACRES
(DOES NOT INCLUDE ADJACENT DEVELOPMENTS).
IMPERVIOUS SURFACE AREA: EXISTING=0.00 ACRES, PROPOSED=0.92 ACRES.

2. PERMANENT STORMWATER MANAGEMENT:
STORMWATER PONDS: YES - DESIGNED TO MEET CITY STORMWATER REQUIREMENTS.
CITY SHALL BE RESPONSIBLE FOR LONG TERM MAINTENANCE. MAINTENANCE PLAN IS
ON FILE WITH THE CITY'S MS 4 PERMIT DOCUMENTS.

3. RECEIVING WATERS:
ONSITE STORMWATER PONDS: SPECIAL WATER-NO, IMPAIRED WATER-NO
WETLAND COMPLEX: SPECIAL WATER-NO, IMPAIRED WATER-NO

4. STORMWATER MANAGEMENT DESCRIPTION: STORMWATER TREATMENT AND RATE
CONTROL FROM THIS SITE ARE MANAGED WITHIN THE STORMWATER POND TO THE
WEST OF THE SITE. STORMWATER REPORT AND CALCULATIONS AVAILABLE FROM
STARK ENGINEERING UPON REQUEST.

5. PERMITS FROM DNR. ARMY CORP OR LGU:
WETLAND ALTERATION PERMIT WILL BE OBTAINED PRIOR TO CONSTRUCTION DUE TO
MINOR IMPACTS TO THE EXISTING WETLAND ON THIS SITE.
EAW, ENDANGERED OR THREATENED SPECIES OR ARCHEOLOGICAL REVIEW - NONE.
IS THIS SITE LOCATED IN KARST OR DRINKING WATER SUPPLY MANAGEMENT AREA -
NO.

KNOWLEDGEABLE PERSON/CHAIN OF RESPONSIBILITY DESCRIPTION:

OWNER:
DERRICK TAYLOR, EDGEWOOD DRIVE, LLC

SWPPP DESIGNER:
WAYNE C.B. STARK, P.E. CERTIFIED SWPPP DESIGNER

SWPPP COORDINATOR:

NAME_____

TITLE_____

CONSTRUCTION NOTES:

1. THE OWNER AND CONTRACTOR SHALL COMPLETE AND SUBMIT AN NPDES PERMIT TO
THE MN POLLUTION CONTROL AGENCY (MPCA) PRIOR TO CONSTRUCTION AND COMPLY
WITH ALL REQUIREMENTS. REFER TO SHEET C-23 & C-24 FOR LOCATION OF EROSION
AND SEDIMENT CONTROL ITEMS.

2. THE FOLLOWING SEQUENCE AND PROTOCOLS SHALL BE FOLLOWED FOR EROSION AND
SEDIMENT CONTROL DURING THE SITE DEVELOPMENT PROCESS:
A. INSTALL SILT FENCE AND ROCK CONSTRUCTION ENTRANCE AS SHOWN ON THE
PLANS PRIOR TO START OF WORK.
B. NO CONCRETE WASHOUTS ARE ALLOWED ON THE PROJECT SITE. SOIL
STOCKPILES SHALL HAVE PERIMETER CONTROL AND HAVE TEMPORARY SEED AND
MULCH.
C. MAINTAIN ALL TEMPORARY EROSION CONTROL DEVICES IN PLACE UNTIL THE
CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. INSPECT TEMPORARY
EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH 1/2" OR MORE
RAIN EVENT. CLEAN OR MAINTAIN THESE DEVICES AS NEEDED TO BE EFFECTIVE.
REPLACE DETERIORATED, DAMAGED OR ROTTED EROSION CONTROL DEVICES
IMMEDIATELY.
D. REMOVE ALL SOILS AND SEDIMENTS DEPOSITED ONTO PUBLIC AND/OR PRIVATE
PAVEMENT AREAS WITHIN 24 HOURS OF DEPOSITION. REMOVAL OF TRACKING
MATERIALS SHALL BE COMPLETED AT THE END OF EACH WORK DAY WHEN IT
OCCURS. SWEEPING MAY BE ORDERED AT ANY TIME IF CONDITIONS WARRANT.
E. PERFORM SITE REMOVALS, GRADING, EXCAVATION AND EMBANKMENT. SEED AND
TRM ALL DISTURBED AREAS OUTSIDE OF PROPOSED PAVEMENT AND BUILDING
AREAS IMMEDIATELY AFTER THIS WORK WHEN ACTIVITY WILL BE CEASED FOR 7
DAYS.
F. INSTALL UTILITIES, CONCRETE FLATWORK AND BITUMINOUS PAVEMENT SECTIONS.
FINE GRADE SITE AND RESTORE GREEN AREAS WITH PERMANENT VEGETATION OF
SOD/SEED & TRM PER PLANS.
G. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER SITE
HAS UNDERGONE FINAL STABILIZATION AND PERMANENT VEGETATION HAS BEEN
ESTABLISHED WITH AT LEAST 70% COVERAGE.

NARRATIVE:

1. STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INCLUDES THE FOLLOWING:
A. DESCRIPTION OF THE EXISTING SITE CONDITIONS INCLUDING EXISTING LAND USE FOR THE SITE, SOIL TYPES
FOR THE SITE AND THE LOCATION OF SURFACE WATERS WHICH ARE LOCATED ON OR NEXT TO THE SITE.
B. IDENTIFICATION OF THE BODY OF WATER(S) WHICH WILL RECEIVE RUNOFF FROM THE CONSTRUCTION SITE
INCLUDING THE ULTIMATE BODY OF WATER THAT RECEIVES THE STORMWATER.
C. THE FOLLOWING ADDITIONAL PROJECT DOCUMENTATION SHALL BE CONSIDERED PART OF THIS SWPPP, BUT
IS NOT BEING DUPLICATED FOR THIS DOCUMENT: CERTIFICATE OF SURVEY/PLAT, BUILDING PLANS AND
GEOTECHNICAL REPORT.
D. DESCRIPTION OF STORMWATER MANAGEMENT CONTROLS AND VARIOUS BEST MANAGEMENT PRACTICES
(BMPs) NECESSARY TO REDUCE EROSION, SEDIMENT AND POLLUTANTS IN THE STORMWATER DISCHARGE.
E. DESCRIPTION OF SWPPP COORDINATOR DUTIES INCLUDING FACILITY-MONITORING PLAN AND HOW CONTROLS
WILL BE COORDINATED WITH CONSTRUCTION ACTIVITIES.
F. DESCRIPTION OF IMPLEMENTATION SCHEDULE AND PROVISIONS FOR AMENDMENT OF THE PLAN.
G. PROVISIONS FOR PERMANENT TURF ESTABLISHMENTS AND WATER QUALITY TREATMENT BMPs FOR
IMPERVIOUS SURFACES.

2. THE CONSTRUCTION SITE SWPPP COORDINATOR FOR THE FACILITY SHALL BE DEFINED BY THE OWNER AND
CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. DUTIES OF THE SWPPP
COORDINATOR SHALL INCLUDE THE FOLLOWING:
A. IMPLEMENTATION OF THE SWPPP.
B. OVERSEE MAINTENANCE PRACTICES IDENTIFIED AS BMPs IN THE SWPPP.
C. CONDUCT OR PROVIDE FOR INSPECTION AND MONITORING ACTIVITIES.
D. IDENTIFY POTENTIAL POLLUTANT SOURCES AND MAKE SURE THEY ARE ADDED TO THE PLAN.
E. IDENTIFY ANY DEFICIENCIES OF THE SWPPP AND MAKE SURE THAT THEY ARE CORRECTED.
F. ENSURE THAT ANY CHANGES IN CONSTRUCTION PLANS ARE ADDRESSED IN THE SWPPP.
G. EDUCATE AND/OR INSURE THAT CONTRACTORS AND SUB-CONTRACTORS ARE AWARE OF THE SWPPP AND
PRACTICE EROSION/SEDIMENT CONTROLS, SPILL PREVENTION AND RESPONSE, GOOD HOUSEKEEPING,
PROPER MATERIAL HANDLING, DISPOSAL AND CONTROL OF WASTE, EQUIPMENT FUELING, AND PROPER
STORAGE, WASHING AND INSPECTION PROCEDURES.

3. FACILITY DESCRIPTION:
A. THE CONSTRUCTION SITE IS LOCATED IN BAXTER, CROW WING COUNTY, MN. SEE PROJECT INFORMATION
SECTION FOR MORE DETAILED LOCATION INFORMATION. IT IS BOUNDED BY VACANT LAND TO THE EAST,
NORTH AND WEST SIDES AND WOIDA ROAD ON THE SOUTH SIDE.
B. THE CONSTRUCTION WILL CONSIST OF LOT GRADING, UTILITY INSTALLATION AND STREET CONSTRUCTION
WITH CURB AND GUTTER AND BITUMINOUS PAVEMENT. NO CONCENTRATED FLOW AREAS (DITCHES) OR PIPE
OUTLETS ARE PROPOSED.
C. THE EXISTING CONDITIONS OF THIS SITE ARE A VACANT GRASS AND WOODED AREA WITH NO BUILDINGS.
ACCORDING TO THE WEB SOIL SURVEY, THE EXISTING SOILS ARE LOUGEE-BARBER-GUIDA COMPLEX (D53B)
AND ZIMMERMAN LOAMY FINE SAND (D62A). SITE SPECIFIC SOIL BORINGS ENCOUNTERED POORLY GRADED
SAND (SP) AND SILTY SAND (SM).
D. REFER TO THE PLANS FOR THE SITE IMPROVEMENTS AND CONTOURS. DISTURBANCE OF THE SITE WILL
OCCUR DUE TO SITE GRADING, UTILITY INSTALLATION, STREET CONSTRUCTION AND LANDSCAPING.

4. IDENTIFICATION OF POTENTIAL STORMWATER CONTAMINANTS:
A. SIGNIFICANT MATERIAL INVENTORY OF POLLUTANTS INCLUDING HERBICIDES, FERTILIZER, ASPHALT,
CONCRETE, CURING COMPOUNDS, HYDRAULIC FLUIDS, GASOLINE, DIESEL, KEROSENE, ANTIFREEZE, SANITARY
TOILETS AND SEDIMENT THAT RESULT FROM CLEARING, GRADING, EXCAVATION AND CONSTRUCTION
MATERIALS THAT HAVE THE POTENTIAL TO BE PRESENT IN STORMWATER RUNOFF.
B. THE FOLLOWING POTENTIAL SOURCE AREAS OF STORMWATER CONTAMINATION WERE IDENTIFIED AND
EVALUATED: CLEARED AND GRADED AREAS, SITE CONSTRUCTION INCLUDING CONCRETE WALKS AND
BITUMINOUS PAVEMENTS, UTILITY INSTALLATION AND BUILDING CONSTRUCTION.

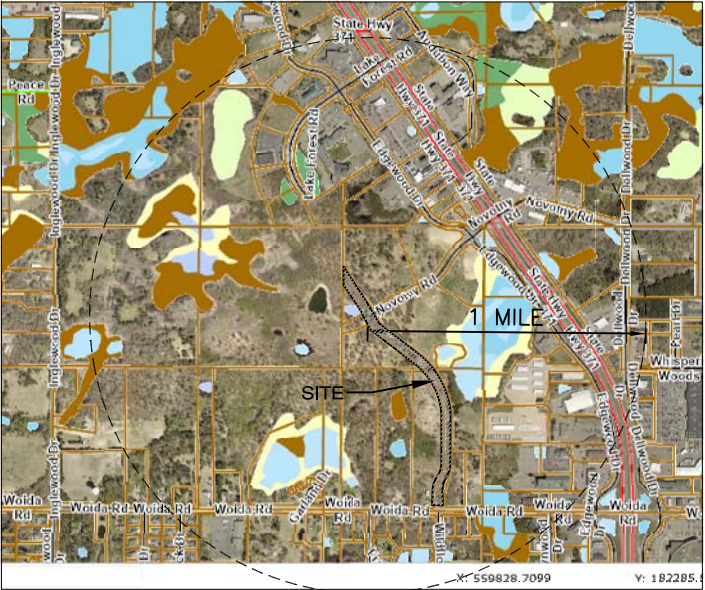
5. TEMPORARY AND PERMANENT EROSION CONTROL PRACTICES:
A. SILT FENCE BARRIERS WILL BE PLACED ACCORDING TO THE PLANS AND PRIOR TO CONSTRUCTION. THESE
TEMPORARY PERIMETER CONTROLS SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION
ACTIVITIES ARE COMPLETED ON THIS SITE AND SOILS HAVE ACHIEVED PERMANENT STABILIZATION (70%
VEGETATIVE COVER).
B. TOPSOIL WILL BE STRIPPED AND STOCKPILED. STOCKPILES WILL HAVE PERIMETER CONTROLS (SILT FENCE
OR SILT SOCK) AND BE STABILIZED WITH MULCH.
C. A ROCK CONSTRUCTION ENTRANCE WILL BE MAINTAINED THROUGHOUT THE PROJECT. THIS ENTRANCE WILL
BE REQUIRED TO REDUCE VEHICLE TRACKING FROM THE SITE. REGULAR MAINTENANCE MAY NEED TO BE
PERFORMED TO INSURE SEDIMENT IS NOT TRACKED ONTO LOCAL ROADWAYS. SWEEPING WILL BE USED TO
CLEAN UP TRACKED SEDIMENT.
D. INLET PROTECTION WILL BE USED AT ALL DRAINAGE INLETS LOCATED DOWNSTREAM OF THE PROJECT.
E. EROSION CONTROL BLANKET AND SEDIMENT LOGS WILL ALSO BE IMPLEMENTED IN CRITICAL AREAS ALONG
WITH SEED AND MULCH OR SOD DURING KEY PERIODS OF TURF ESTABLISHMENT.
F. UPON COMPLETION OF EXTERIOR WORK, TOPSOIL WILL BE RESTORED AND THE SITE WILL BE LANDSCAPED
AND RESTORED PER CITY SPECIFICATIONS.
G. ONCE UP SLOPE AREAS ARE PERMANENTLY STABILIZED, ACCUMULATED SEDIMENT WILL BE REMOVED FROM
ANY DITCH AREAS AND THEY WILL BE SEEDED AND MULCHED.
H. AFTER THE ENTIRE SITE IS STABILIZED, THE TEMPORARY BMPs WILL BE REMOVED FROM THE SITE.

6. CONSTRUCTION PRACTICES TO MINIMIZE STORMWATER CONTAMINATION:
A. ALL CONSTRUCTION WASTE MATERIALS WILL BE COLLECTED AND DISPOSED OF PROPERLY ACCORDING TO ALL LOCAL AND
REGULATORY REQUIREMENTS. GOOD HOUSEKEEPING, MONITORING AND SPILL CONTROL PRACTICES WILL BE FOLLOWING
DURING CONSTRUCTION TO MINIMIZE STORMWATER CONTAMINATION FROM PETROLEUM PRODUCTS, FERTILIZERS, PAINTS AND
CONCRETE.
B. ENVIRONMENTALLY FRIENDLY FERTILIZERS WILL ONLY BE APPLIED WITHIN THIS AREA AND WILL BE WORKED INTO THE SOIL
TO LIMIT EXPOSURE TO STORMWATER.
C. ALL VEHICLES ON SITE WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE
THE CHANCE FOR LEAKAGE.
D. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
E. SANITARY WASTE WILL BE MONITORED AND COLLECTED AT REGULAR INTERVALS FROM PORTABLE UNITS TO AVOID
OVERFILLING.
F. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY.
G. CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER
WITHIN THE PROJECT SITE.
H. PLASTER AND DRYWALL CLEANUP WATER WILL USE AN APPROVED ONSITE CONTAINMENT FACILITY.

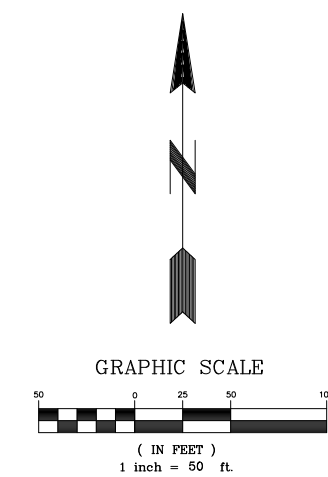
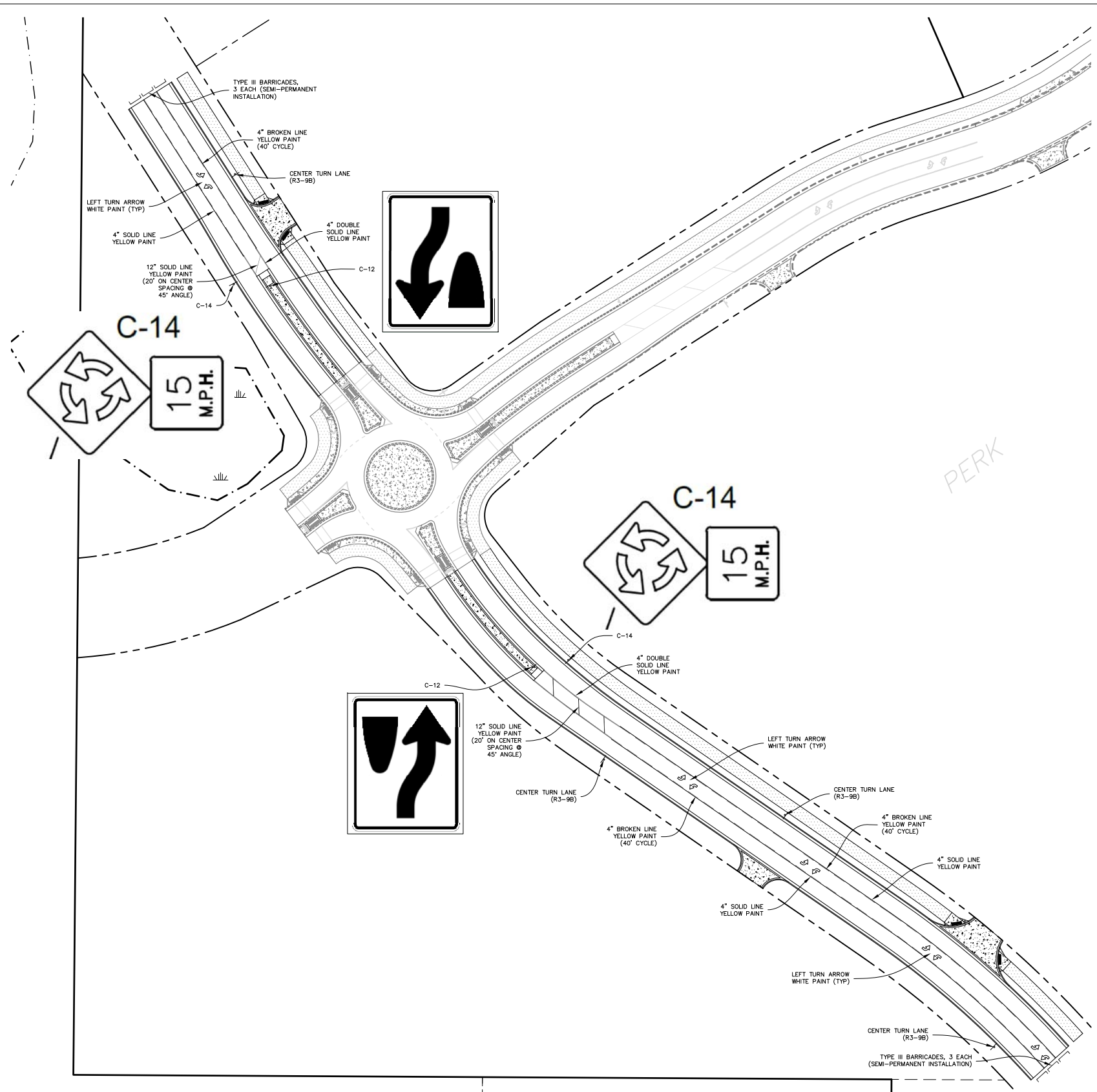
7. DEWATERING
A. IF DEWATERING OF SANDY SUBSOILS IS REQUIRED FOR THIS PROJECT, THE PUMP DISCHARGE SHALL BE TREATED PRIOR TO
DISCHARGE OFF-SITE OR INTO A SURFACE WATER. TREATMENT OF DISCHARGE SHALL BE ACHIEVED WITH THE USE OF A
"DANDY DEWATERING BAG" AS MANUFACTURED BY DANDY PRODUCTS, INC. (877) 307-0141 OR WWW.DANDYPRODUCTS.COM.
THE "DANDY DEWATERING BAG" SHALL BE INSTALLED, UTILIZED, AND MAINTAINED PER THE MANUFACTURER'S INSTRUCTIONS
AND SPECIFICATIONS.
B. THE DEWATERING DISCHARGE SHALL BE VISUALLY CHECKED TO ENSURE THAT IT IS RELATIVELY CLEAN AND NOT VISIBLY
DIFFERENT FROM ANY RECEIVING WATERS. IF DISCHARGE IS NOTICEABLY "DIRTY", THE ENGINEER SHALL BE CONTACTED AS
ADDITIONAL TREATMENT METHODS MAY BE NECESSARY.
C. ADEQUATE EROSION CONTROL SHALL BE PROVIDED AT THE POINT OF DISCHARGE IF IT IS LOCATED IN AN AREA WITH
EXPOSED SOILS OR ESTABLISHED TURF. THE EROSION CONTROL MEASURES SHALL BE EFFECTIVE AND SHALL BE
MAINTAINED ADEQUATELY SUCH THAT NO EROSION OCCURS AT THE POINT OF DISCHARGE.

8. MAINTENANCE AND INSPECTION PROCEDURES: :
A. AT LEAST ONCE A WEEK OR WITHIN 24 HOURS OF A 1/4" RAINFALL EVENT OR GREATER, VISUAL INSPECTIONS OF THE
ENTIRE CONSTRUCTION SITE WILL BE PERFORMED. THESE INSPECTIONS WILL BE CONDUCTED BY THE SWPPP COORDINATOR
OR THEIR DESIGNEE. THE INSPECTION WILL VERIFY THE EROSION AND SEDIMENT BMPs ARE FUNCTIONING PROPERLY. THE
FOLLOWING INSPECTION AND MAINTENANCE PRACTICES WILL BE USED TO MAINTAIN THE EROSION AND SEDIMENT CONTROLS.
B. SILT FENCES WILL BE INSPECTED FOR DEPTH OF SEDIMENT, FOR TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO
THE FENCE POSTS AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
C. BUILT UP SEDIMENT WILL BE REMOVED FROM THE SILT FENCE WHEN IT HAS REACHED 1/3 OF THE HEIGHT OF THE FENCE.
D. TEMPORARY SEDIMENT BASINS ARE REQUIRED IF ANY AREA 5 ACRES OR LARGER DRAIN TO A COMMON LOCATION. THESE
BASINS WILL BE INSPECTED FOR DEPTH OF SEDIMENT. SEDIMENT SHALL BE REMOVED FROM THE BASIN WHEN IT REACHES
A DEPTH OF 1-FOOT.
E. TEMPORARY SEEDING SHALL BE COMPLETED WITHIN 7 DAYS IN DISTURBED AREAS. BOTH TEMPORARY AND PERMANENT
SEEDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS AND HEALTHY GROWTH.
F. THE ROCK CONSTRUCTION ENTRANCE WILL BE INSPECTED FOR SEDIMENT TRACKED ONTO ROADWAY, FOR CLEAN GRAVEL
AND TO MAKE SURE THAT ALL TRAFFIC USE IT WHEN LEAVING THE SITE.
G. A MAINTENANCE INSPECTION REPORT WILL BE COMPLETED DURING EACH INSPECTION BY THE SWPPP COORDINATOR. A
BLANK REPORT FORM IS AVAILABLE UPON REQUEST. COMPLETED FORMS WILL BE STORED ONSITE DURING THE ENTIRE
CONSTRUCTION PROJECT. FOLLOWING CONSTRUCTION, THE COMPLETED FORMS WILL BE RETAINED BY THE OWNER OR
THEIR DESIGNEE FOR A MINIMUM OF 3 YEARS.
H. TERMINATION OF COVERAGE: THE SWPPP COORDINATOR AND THE OWNER WILL TERMINATE THE PERMIT BY SUBMITTING THE
NOTICE OF TERMINATION AS DIRECTED IN PART 11C OF THE NPDES PERMIT. THE NOTICE SHALL BE SUBMITTED WHEN
CONSTRUCTION IS COMPLETE AND PERMANENT COVER IS ESTABLISHED.
I. MAINTENANCE PLAN: MAINTENANCE INSPECTIONS WILL BE COMPLETED BY THE OWNER BIANNUALLY AND WILL INCLUDE
INSPECTION OF THE DRAINAGE BASINS, RECORD THE FINDINGS AND NOTE ANY CORRECTIVE ACTIONS TAKEN.

SWPPP SITE MAP



REVISIONS	4/14/26	CONST. DOC.
	7/27/26	PER REVIEW



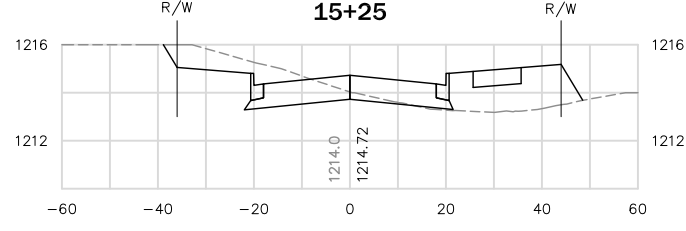
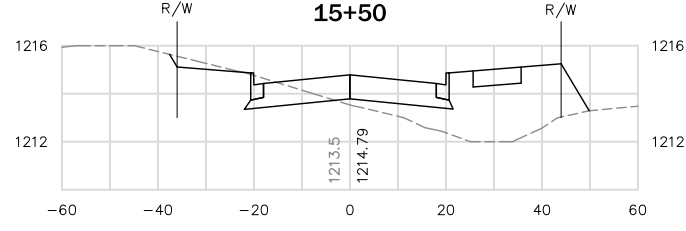
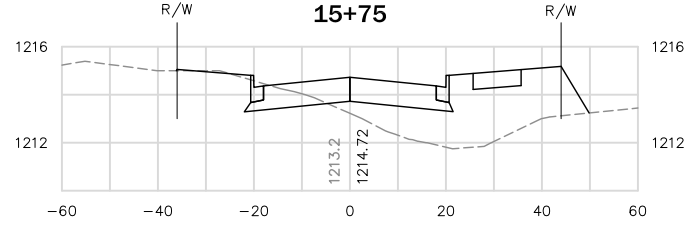
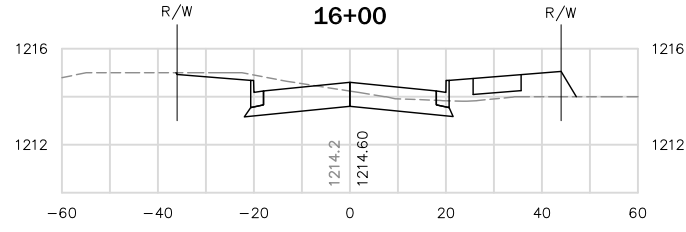
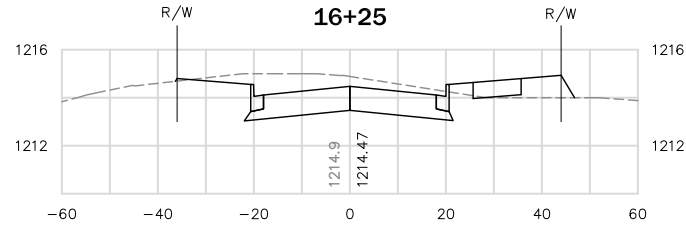
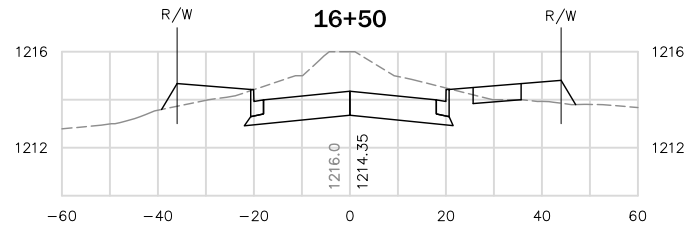
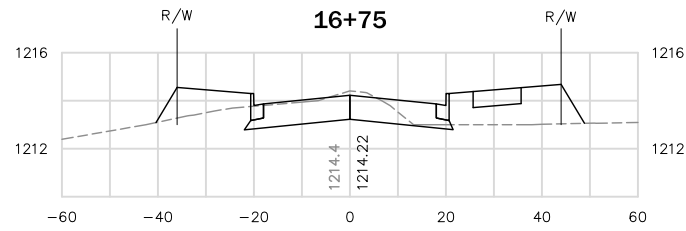
NOTES:

1. BASE PLAN USED IS A SURVEY PREPARED BY ARRO LAND SURVEYING OF BRAINERD, INC
2. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL CONFIRM ALL LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT UTILITY COMPANIES VIA GOPHER STATE ONE-CALL ONLINE OR BY CALLING 811 OR 1-800-252-1166.
3. ALL CONSTRUCTION SHALL CONFORM TO THE MOST RESTRICTIVE OF THE PROJECT SPECIFICATIONS, THE STANDARD SPECIFICATIONS OF THE CITY OF BAXTER AND THE LATEST EDITION OF MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

SIGN PANELS TYPE C

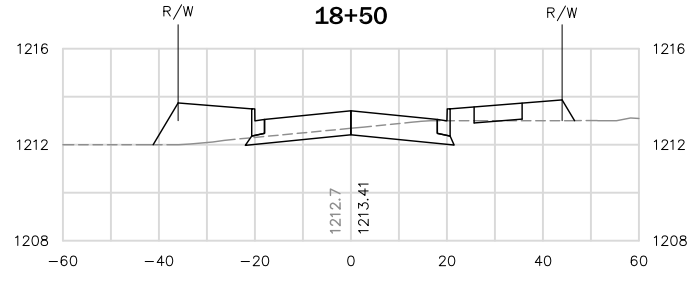
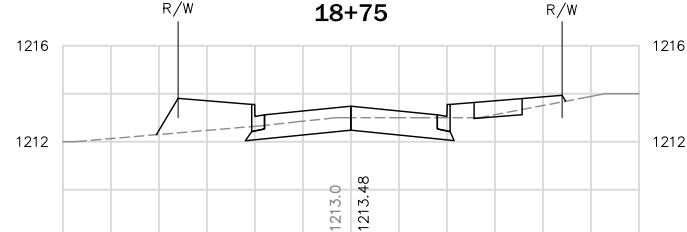
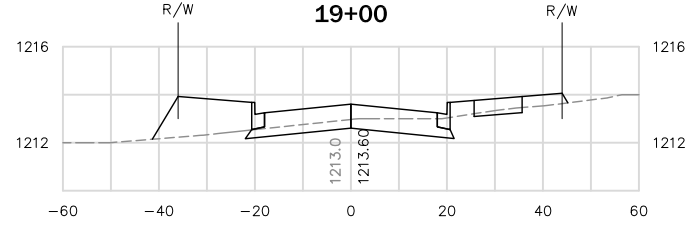
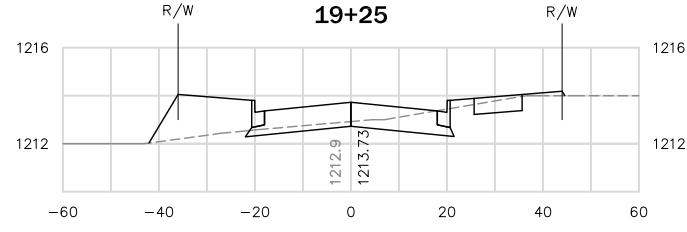
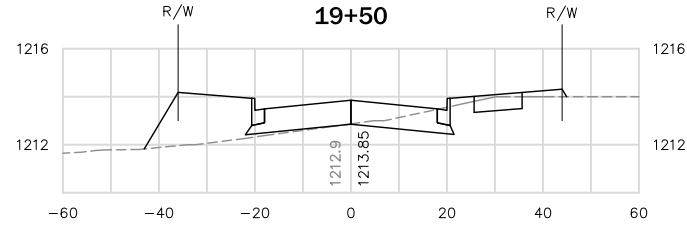
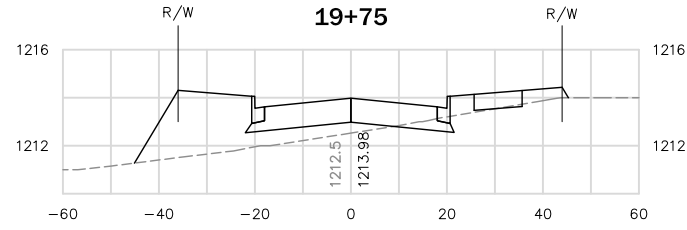
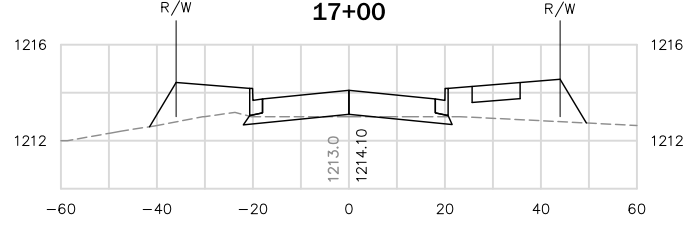
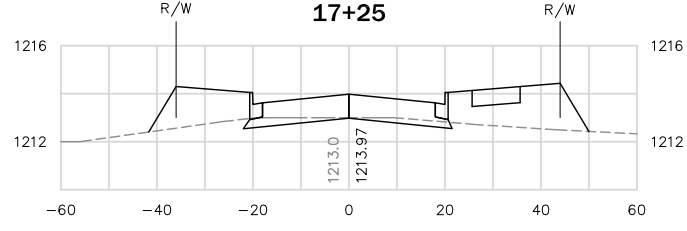
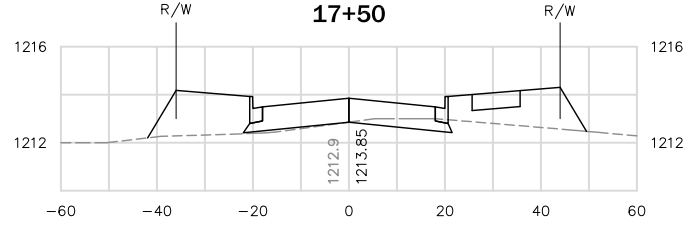
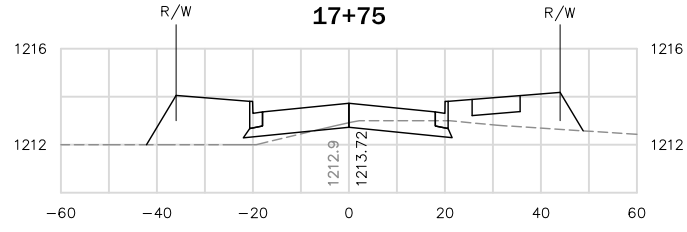
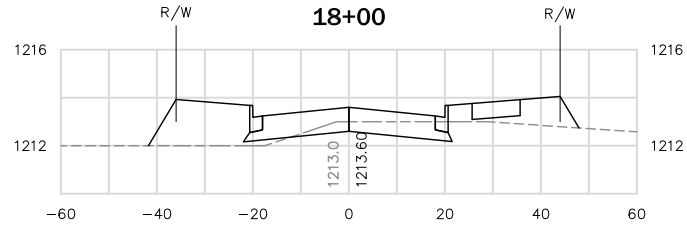
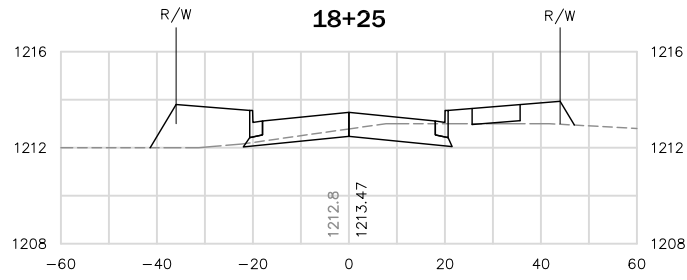
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C-7	4	1U	24"x36"	6.00	24.00	R3-9b	CENTER LANE LEFT TURN ONLY	1
C-12	2	1 ST	24"x36"	6.00	18.00	R4-7	KEEP RIGHT	1
C-14	2	2U	30"x30"	6.25	12.5	W2-6A	ROUNDAABOUT INTERSECTION	1
C-14	2		18"x18"	2.25	4.5	W13-1p	15 MPH ADVISORY	1,2

- NOTES:
- 1 - FURNISH AND INSTALL
 - 2 - MOUNT BELOW SIGN
 - 3 - MOUNT BACK TO BACK



LAKE FOREST ROAD

STA. 15+25 - STA. 19+75



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Engineer under the laws of the State of Minnesota.
W. Stark 7/27/26 26093
Date Registration No.

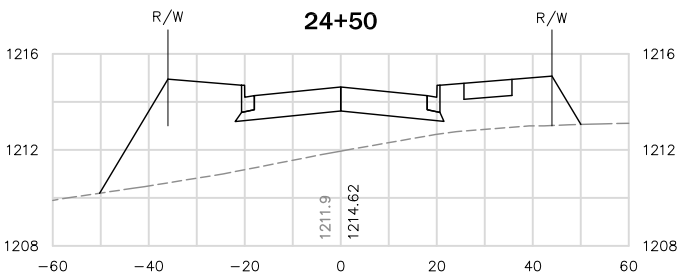
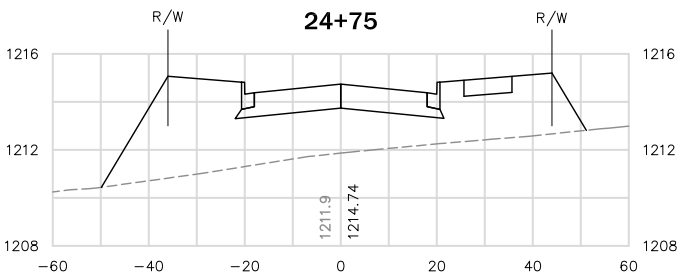
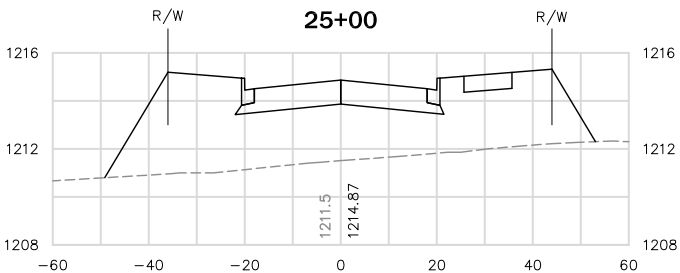
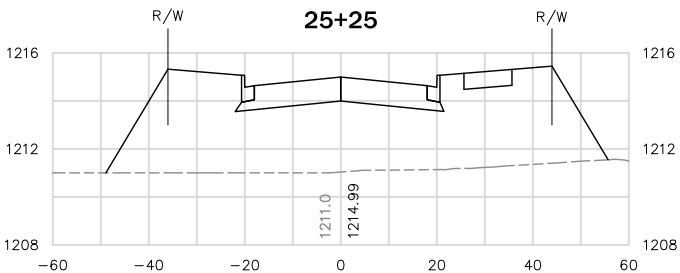
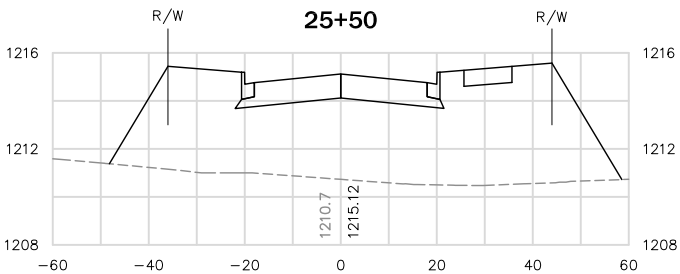
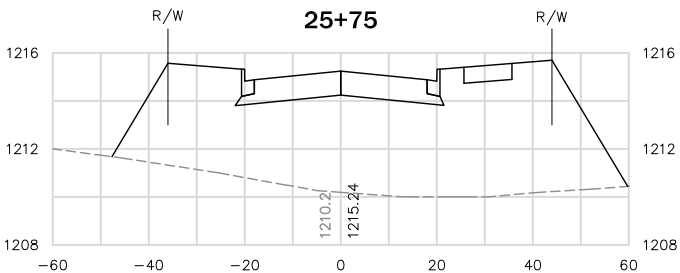
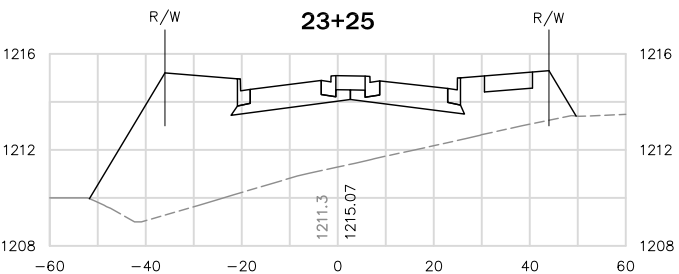
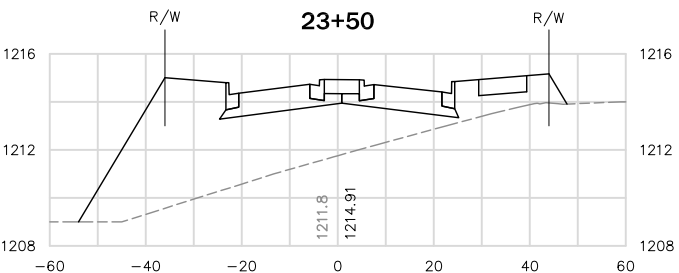
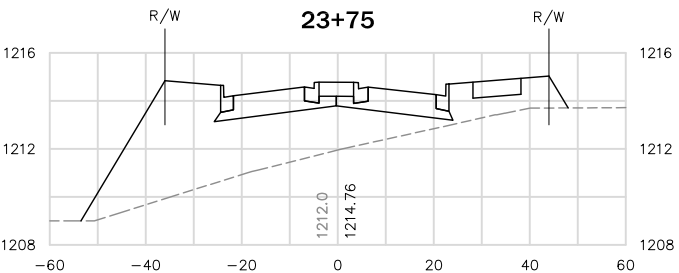
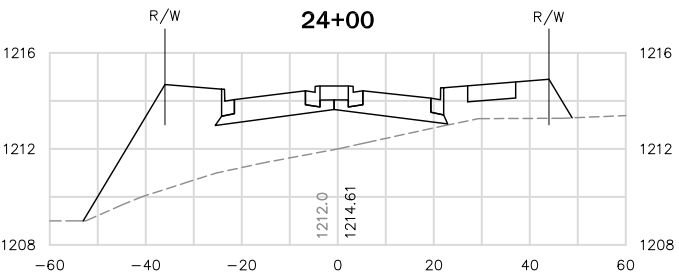
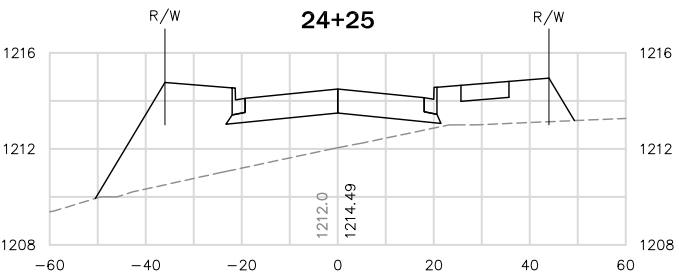
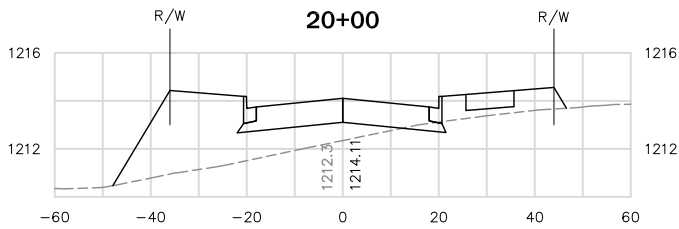
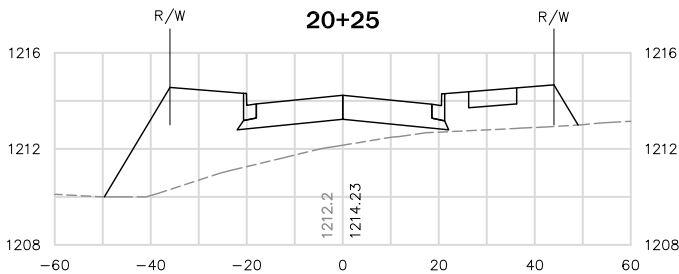
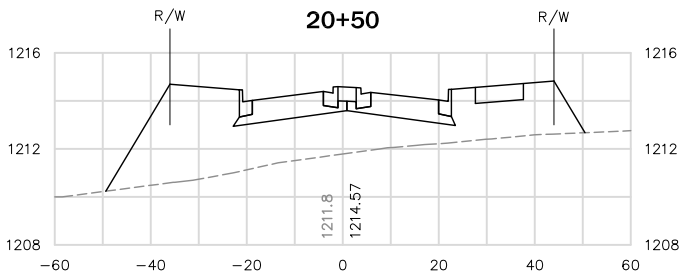
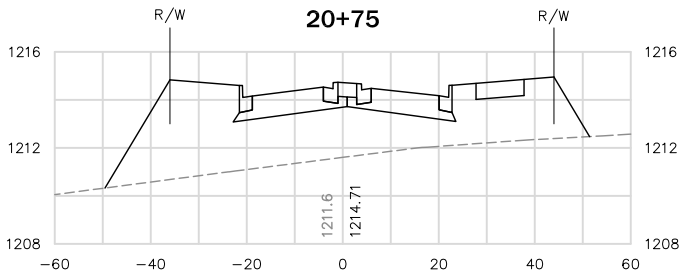
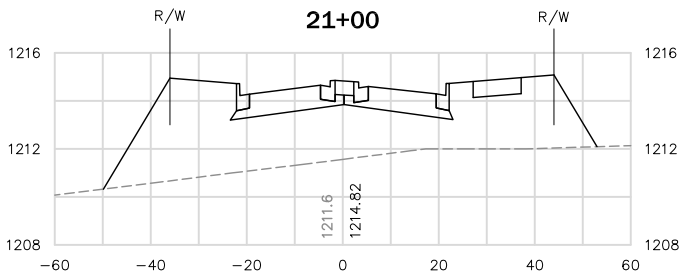
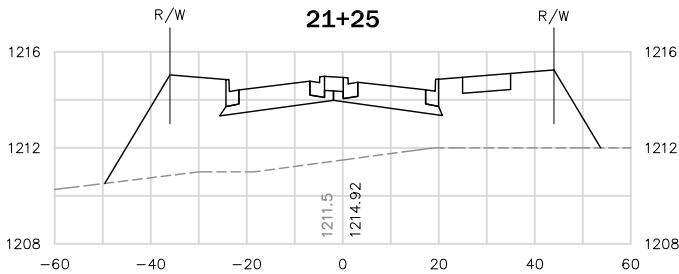
REVISIONS	4/14/26	CONST.	DOC.
	7/27/26	PER	REVIEW

CROSS SECTIONS

2026 LAKE FOREST IMPROVEMENTS
BAXTER, MINNESOTA
for: 15521 EDGEWOOD DR, LLC

LAKE FOREST ROAD

STA. 20+00 - STA. 21+25
STA. 23+25 - STA. 25+75



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Engineer and that I am a duly State of Minnesota.

REVISIONS	DATE	BY	DESCRIPTION
4/14/26	DOC.		
7/27/26	PER REVIEW		

CROSS SECTIONS

2026 LAKE FOREST IMPROVEMENTS
BAXTER, MINNESOTA
for: 15521 EDGEWOOD DR, LLC

Wine C Stark
Date 7/27/26 Registration No. 26093



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