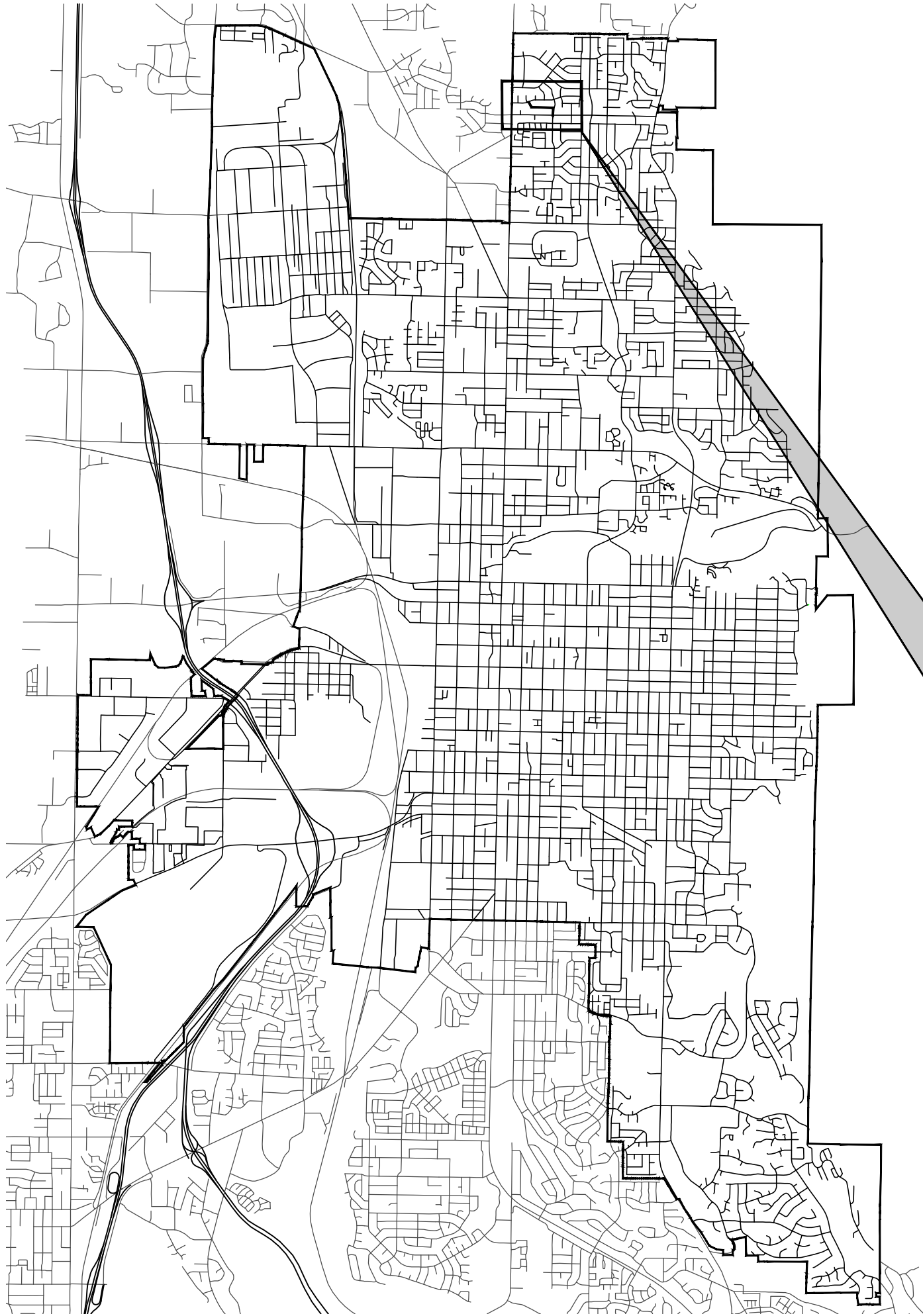


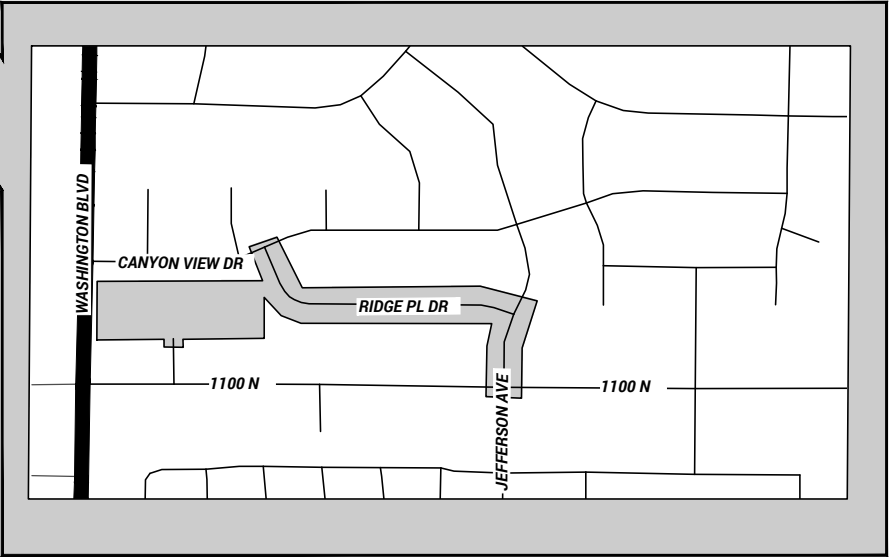


Ogden City Engineering

DETENTION POND TO 1100 N STORM PROJECT

SHEET INDEX

PG	TITLE	DESCRIPTION
1	G1	TITLESHEET
2	SC1	SURVEY CONTROL/NOTES
3	SD1	DETENTION POND
4-7	SD2-SD5	STORM DESIGN
8-9	DT1-D2	DETAILS
10-11	S001 -S002	GENERAL WEIR STRUCTURE NOTES
12	S101	WEIR STRUCTURE PLAN AND SECTION
13	S901	WEIR STRUCTURE DETAILS



REV

DATE

DESCRIPTION

0	MM/DD/YY	DESCRIPTION

PROFESSIONAL ENGINEER

No. 9880643-220

BRADLEY J. MILLER

1/19/26

STATE OF UTAH

DESIGNED

DRAWN

CHECKED

DATE

1/29/2026

DRAWING SCALE

H: NONE (22x34)

V: NONE (11x17)

V: NONE (22x34)

V: NONE (11x17)

THIS BAR MEASURES
ON THE ORIGINAL DRAWING

TITLESHEET

DETENTION TO 1100 N STORM PROJECT

DRAWING NAME: G1 Title 1100 N.dwg

PLOT DATE: 1/29/2026 2:58 PM

Ogden

UTAH

Still Untamed™

2549 Washington Blvd, Suite 760 Ogden, UT 84401

Phone: 801-629-8980 engineering.ogden-city.com

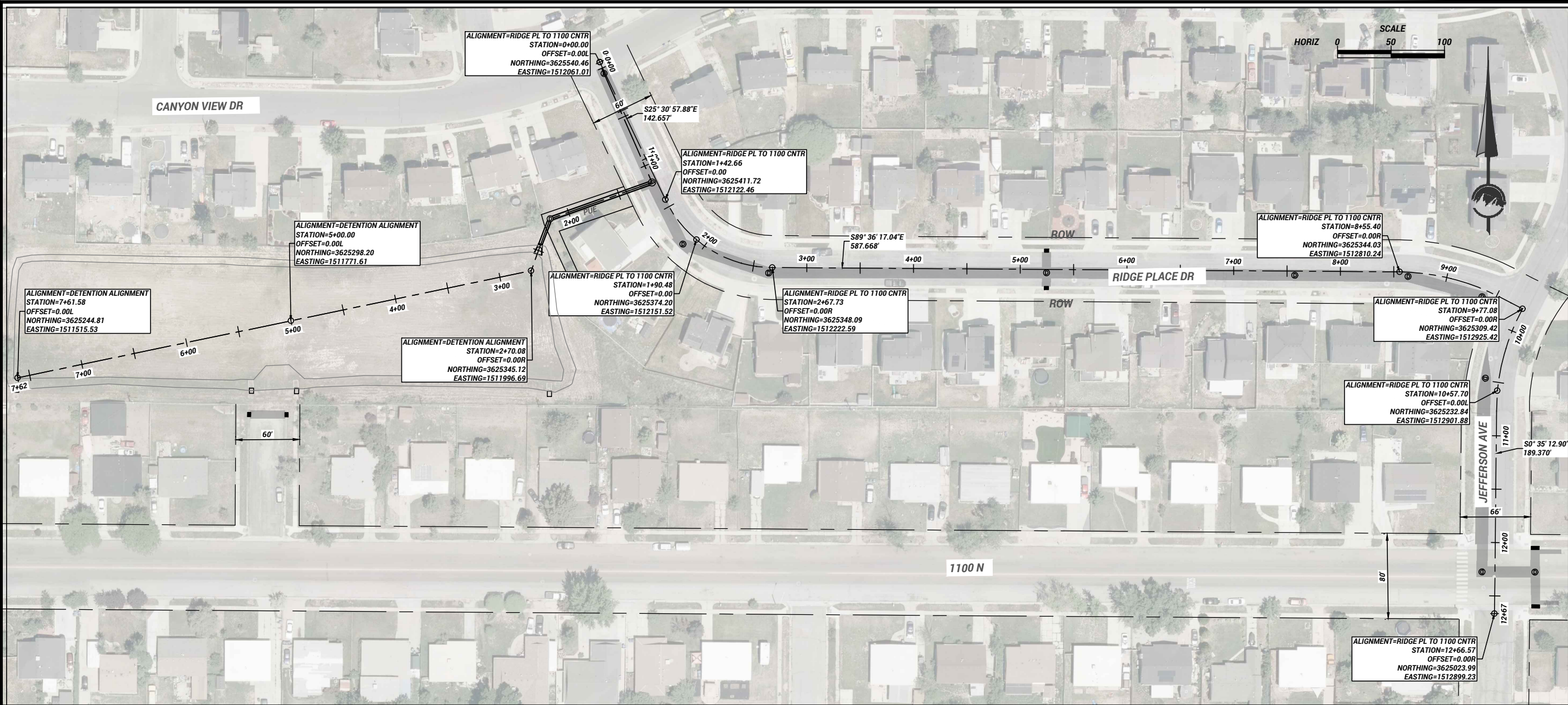
G1

SHEET

0

1

REVISION



GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE CURRENT EDITION OF THE "MANUAL OF STANDARD SPECIFICATIONS" AND "MANUAL OF STANDARD PLANS" PREPARED BY THE UTAH CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION AND OGDEN CITY AMENDMENTS TO SUCH STANDARD SPECIFICATIONS AND STANDARD PLANS UNLESS SPECIFIED OTHERWISE.
2. THE CONTRACTOR SHALL FULLY COMPLY WITH THE CONDITIONS OF THE OGDEN CITY ROW PERMIT AND OGDEN CITY ORDINANCES, POLICIES, REGULATIONS, SPECIFICATIONS AND STANDARDS RELATIVE TO WORK IN THE PUBLIC WAY AS APPLICABLE.
3. ALL EXISTING VALVES BEING ABANDONED SHALL HAVE SURFACE IMPROVEMENTS (RISER, COVER, AND CONCRETE COLLAR) REMOVED AND SURFACE REPAIRED.
4. ALL PAVING AND RESURFACING SHALL BE COMPLETE WITHIN 3 CALENDAR DAYS FROM THE TIME OF EXCAVATION UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
5. NO BACKFILL SHALL OCCUR UNTIL INSPECTED AND APPROVED.
6. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY REGULATIONS DURING ALL PHASES OF PROJECT.
7. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE PROSECUTED TO COMPLETION WITH DILIGENCE AND EXPEDITION AND RESTORE THE PUBLIC RIGHT OF WAY TO CITY SPECS WITHOUT DELAY AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND THE PUBLIC.
8. CONTRACTOR IS RESPONSIBLE TO RESTORE ALL LAND WHETHER PUBLIC OWNERSHIP OR PRIVATE OWNERSHIP, TO ITS ORIGINAL STATE.
9. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY CONSTRUCTION FACILITIES, WATER, POWER, SANITATION, AND TELEPHONE SERVICE AS NEEDED.
10. CONTRACTOR IS RESPONSIBLE TO LOCATE ALL EXISTING WATER, SEWER, ELECTRICAL, GAS AND OTHER UTILITY LINES.
11. CONTRACTOR IS RESPONSIBLE TO SUBMIT AS-BUILT DRAWINGS TO THE CITY PRIOR TO FINAL PAYMENT.
12. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING COMPLETION OF WORK. REASONABLE WEAR EXCEPTED.

EXCAVATION NOTES

1. EXCAVATED MATERIAL MAY NOT BE USED AS BACKFILL IN THE PIPE ZONE.
2. EXCAVATION SHALL BE DONE IN ACCORDANCE WITH OSHA REQUIREMENTS (LATEST REVISION).
3. TEMPORARY SHORING OF THE EXCAVATION, IF REQUIRED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

COORDINATION

1. ALL STORM PIPE MUST BE CLEANED AND CCTV INSPECTED, AND DELIVER CCTV FOOTAGE TO THE CITY PROJECT MANAGER BEFORE ASPHALT IS INSTALLED.
2. IF ANY WATERLINE SHUT DOWNS ARE NEEDED, THEN WE REQUIRE A FIVE WORKING DAYS NOTICE FOR COMMERCIAL AND 48 HOUR NOTICE FOR RESIDENTIAL. CONTRACTOR IS TO COORDINATE WITH OGDEN CITY FOR SHUT DOWN DATES AND TIMES. CONTRACTOR WILL PROVIDE NOTICES AND OGDEN CITY WATER WILL PERFORM VALVE SHUT DOWNS.
3. APPLICATION FOR INSPECTION BY OGDEN CITY ENGINEERING SHALL BE MADE BY THE CONTRACTOR A MINIMUM OF 24 HOURS BEFORE SERVICES ARE REQUIRED.

PIPING NOTES

1. CONTRACTOR IS RESPONSIBLE FOR ALL PIPE FABRICATION AND SIZING (RCP CLASS 3 MINIMUM).
2. MINIMUM COVER REQUIRED SHALL BE 24" IN OGDEN CITY R.O.W.
3. ALL WORK SHALL HAVE 18" MINIMUM CLEARANCE FROM ALL OTHER UTILITIES.
4. ABANDONED STORM PIPES SHALL BE EITHER REMOVED OR CAPPED WITH A CONCRETE PLUG.

UTILITY LOCATION

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THESE PLANS IS BASED ON INFORMATION GATHERED FROM UTILITIES AND/OR FROM ABOVE-GROUND STRUCTURES OR EVIDENCE FOUND AT THE TIME OF SURVEY. AS SUCH, THE UNDERGROUND INFORMATION IS A BEST ESTIMATE. OGDEN CITY DOES NOT REPRESENT OR GUARANTEE THAT THE UNDERGROUND INFORMATION PROVIDED IS CORRECTLY OR UP TO DATE.

IT SHALL BE THE CONTRACTORS FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION. CALL BLUESTAKES A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY DIGGING OR UTILITY WORK.

NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY THE CONTRACTORS ACTIONS.

EXCESS MATERIAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL EXCESS OR UNSUITABLE MATERIALS OFF SITE. THIS INCLUDES CLEARED AND GRUBBED MATERIAL, TREES, BRUSH, FENCING, PIPING, CONCRETE OR ANY OTHER MATERIALS THAT CANNOT BE USED IN CONJUNCTION WITH THE PROJECT.
2. THE CONTRACTOR WILL BE RESPONSIBLE TO OBTAIN A SUITABLE SITE FOR DISPOSAL OF EXCESS OR REJECTED MATERIALS.

CONTACTS

UTILITY COMPANIES:
BLUE STAKES 800-662-4111
QUESTAR GAS DAN MACDONALD 801-324-3539
ROCKY MOUNTAIN POWER CRAIG BRUESTLE 801-629-4430
OGDEN CITY:
OGDEN CITY ENG. PHIL SUITER 801-629-8971
WATER TED BULLOCK 801-629-8363
STORM KEN MIDDLETON 801-940-6428
SEWER BILL SIMPSON 629-8331
URBAN FORESTER 801-629-8369

NOTES:

1. THE HORIZONTAL DATUM TO BE USED IS THE NAD 83 STATE PLANE UTAH NORTH ZONE GRID
2. THE VERTICAL DATUM TO BE USED IS NAVD 88 USING GEOID 12A.

SC-1

0

2

REVISION

REV	DATE	DESCRIPTION
0		INITIAL

PROFESSIONAL ENGINEER

No. 9880643-220

BRADLEY J. MILLER

1/24/26

STATE OF UTAH

DESIGNED

DATE

PJS

DATE

PJS

DRAWN

CHECKED

DRAWING SCALE

H: 1" = 50' (22x34)

V: 1" = 5' (22x34)

1" = 10' (11x17)

1" = 10' (11x17)

This bar measures on the original drawing

SURVEY & NOTES

Storm Detention to 1100 N

RIDGE PL DR TO 1100 N

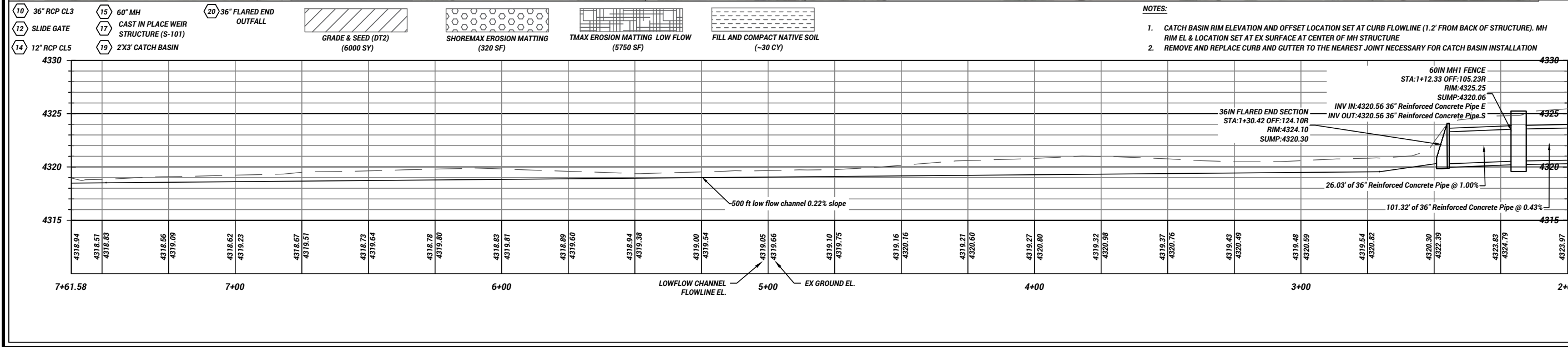
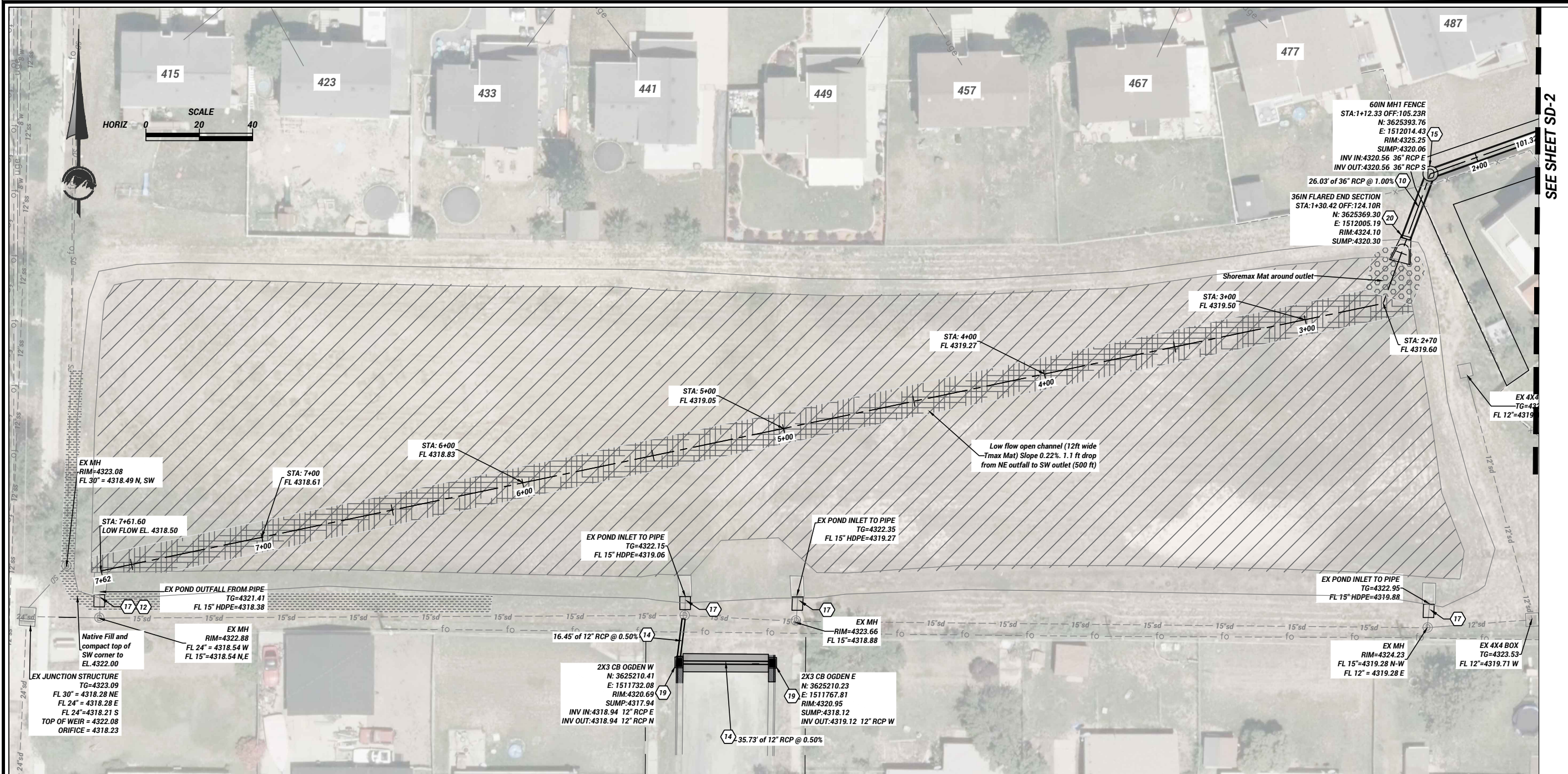
Ogden UTAH Still Untamed™

2549 Washington Blvd, Suite 760 Ogden, UT 84401

Phone: 801-629-8980 engineering.ogden-city.com

PLOT DATE: 1/29/2026 3:39 PM

DRAWING NAME: SD Sheets (Ridge Place to 1100 N).dwg



SD-1

SHEET 0

3

REVISION

REV	DATE	DESCRIPTION
0		MUDDY

PROFESSIONAL ENGINEER

No. 9800042-2202

BRADLEY J. MILLER

1/2/21

STATE OF UTAH

DESIGNED

DATE

PJS

DATE

DESIGNED

DATE

PJS

DATE

DESIGNED

DATE

PJS

DATE

DRAWING SCALE

H: 1" = 20' (22x34)

V: 1" = 5' (22x34)

V: 1" = 10' (11x17)

This bar measures on the original drawing

DETENTION POND

DETENTION TO 1100 N STORM PROJECT

420 E 1150 N

2549 Washington Blvd, Suite 760

Ogden, UT 84401

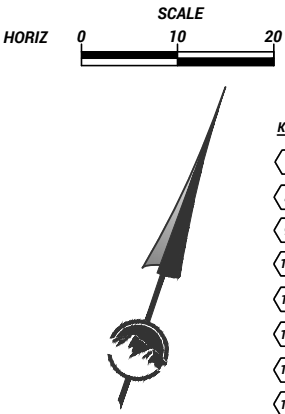
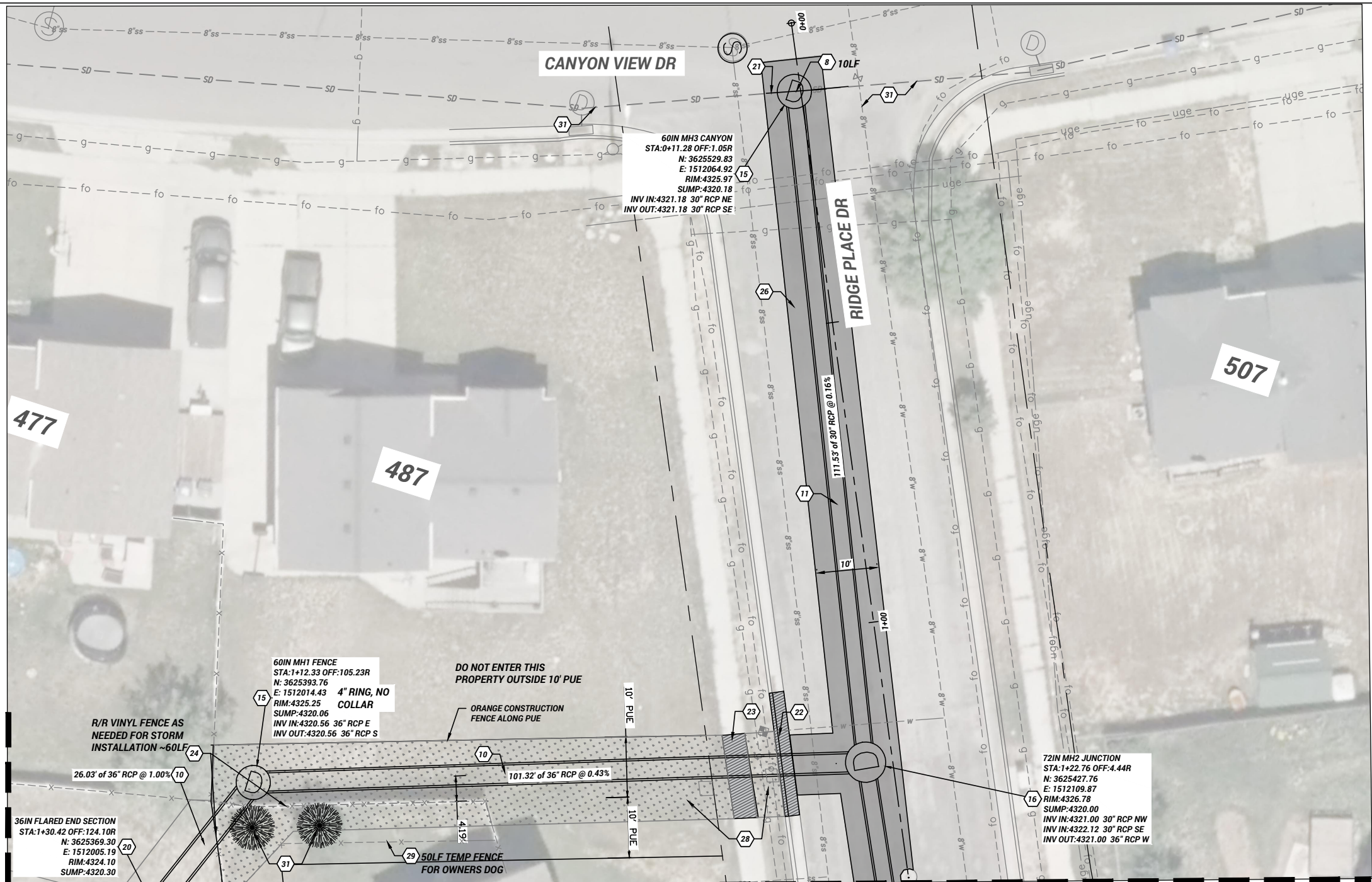
Phone: 801-629-9990

engineering.ogdenity.com

1/29/2026 3:46 PM

PLOT DATE: 1/29/2026 3:46 PM

DRAWING NAME: SD Sheets (ridge Place To 1100 N).dwg



KEYED NOTES:

- 7 REMOVE 6" PERFORATED PIPE
- 8 REMOVE 30" CIPP PIPE
- 9 8" SDR-35 PVC PIPE
- 10 36" RCP CL3
- 11 30" RCP CL5
- 12 SLIDE GATE
- 13 15" RCP CL5
- 14 12" RCP CL5
- 15 60" MH
- 16 72" MH
- 17 CAST IN PLACE WEIR STRUCTURE
- 18 2'X6' CATCH BASIN (DBL INLET)
- 19 2'X3' CATCH BASIN
- 20 36" FLARED END OUTFALL
- 21 CONCRETE PLUG PIPE
- 22 R&R TYPE A C&G
- 23 R&R 4" CONCRETE SIDEWALK
- 24 R&R VINYL FENCE
- 25 R&R WATERWAY
- 26 R&R SIDEWALK/FLATWORK (6" THICK)
- 27 ADA DETECTIBLE SURFACE (GRAY)
- 28 SOD LANDSCAPE RESTORATION
- 30 8" WATERLINE LOOP
- 31 PROTECT IN PLACE

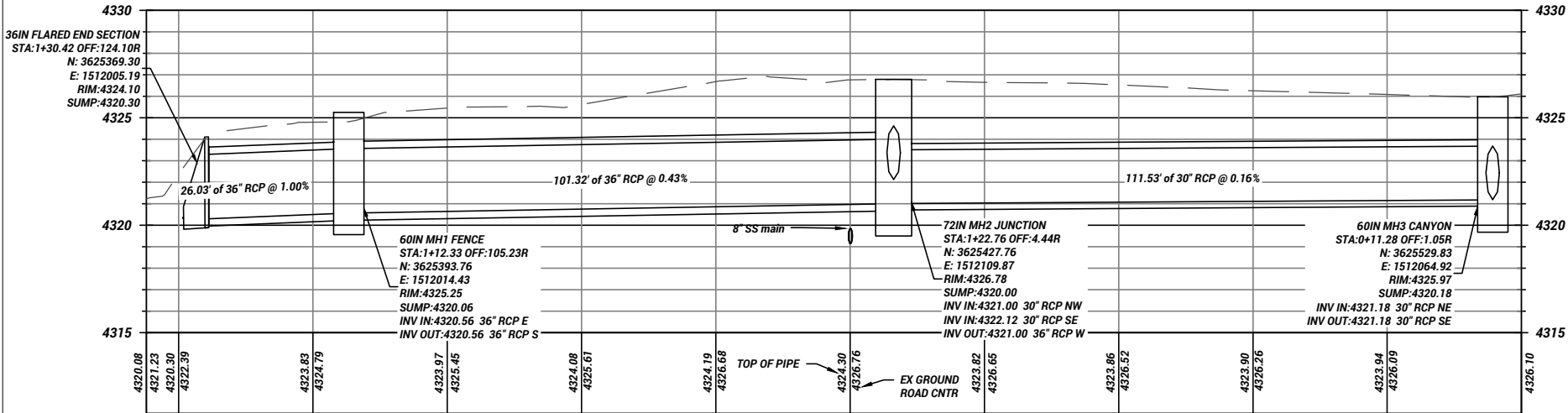
NOTES:

- CATCH BASIN RIM ELEVATION AND OFFSET LOCATION SET AT CURB FLOWLINE (1.2' FROM BACK OF CB). MH RIM EL & LOCATION SET AT EX SURFACE AT CENTER OF MH STRUCTURE
- REMOVE AND REPLACE CURB AND GUTTER TO THE NEAREST JOINT NECESSARY FOR CATCH BASIN INSTALLATION
- DO NOT ENTER 487 PROPERTY OUTSIDE 10' PUE
- TRY TO PROTECT TREES, BUT IF MOST ROOTS NEED TO BE CUT, REPLACE TREE WITH 3" CALIPER
- ONLY REMOVE VINYL FENCE AS NEEDED FOR STORM INSTALLATION PURPOSES
- SET UP TEMP FENCE THAT WILL KEEP OWNERS DOG WITHIN PROPERTY

SEE SHEET SD-1

SEE SHEET SD-3

Canyon View Dr to Outfall Storm Main Profile along CNTR of Pipe



- SOD LANDSCAPE RESTORATION
- R/R CONCRETE
- ASPHALT PATCH

SD-2

1

4

REV	DATE	DESCRIPTION
0	MM/DD/YY	DESCRIPTION
1	2/13/2026	show existing WM and water lateral for 487 Canyon View Dr
1	2/13/2026	show 2 FO boxes and line

DESIGNED

DRAWN

CHECKED

DATE

DATE

DRAWING SCALE

H: 1" = 20' (22x34)

V: 1" = 5' (22x34)

V: 1" = 10' (11x17)

STORM CANYON TO OUTFALL

DETENTION TO 1100 N STORM PROJECT

Canyon View Dr & RidgePlace Dr

Ogden

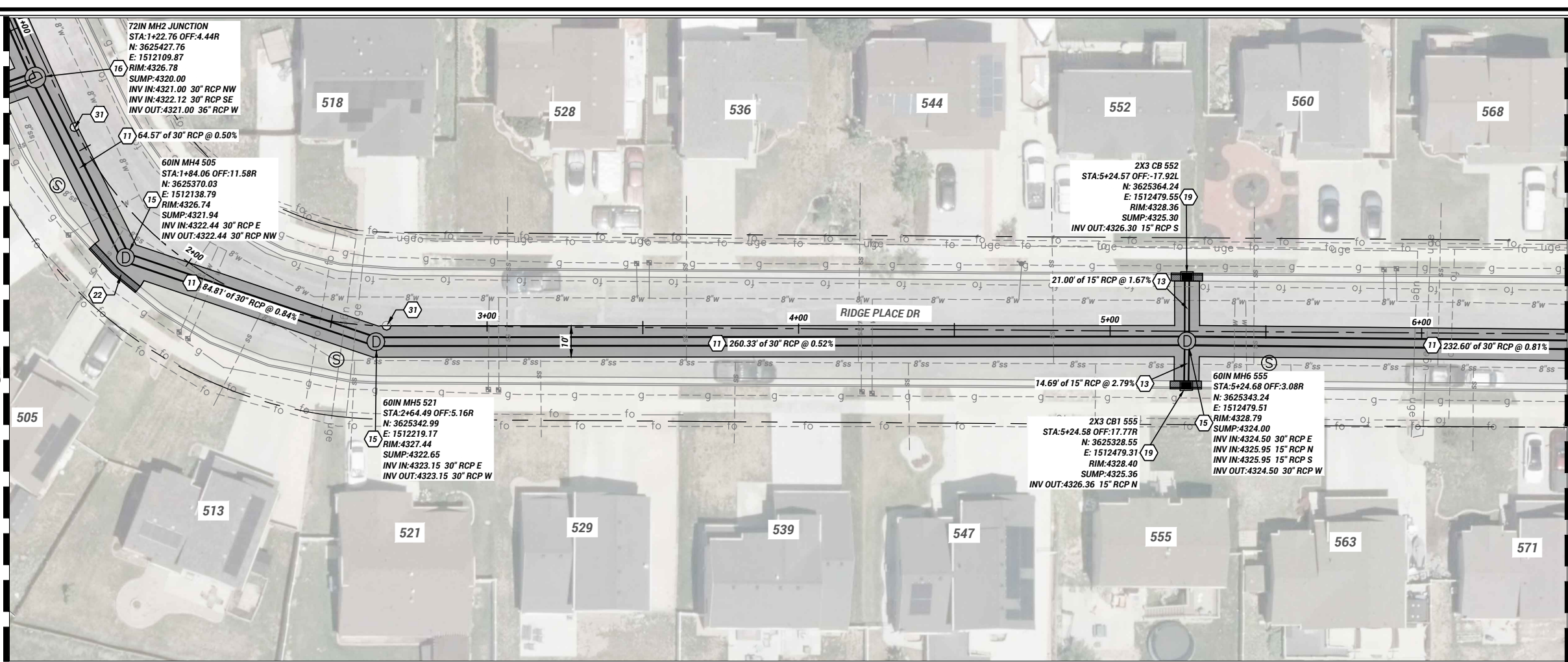
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SEE SHEET SD-2



SEE SHEET SD-4

SCALE
HORIZ 0 20 40

KEYED NOTES:

- 7 REMOVE 6" PERFORATED PIPE
- 8 REMOVE 30" CIPP PIPE
- 9 8" SDR-35 PVC PIPE
- 10 36" RCP CL3
- 11 30" RCP CL5
- 12 SLIDE GATE
- 13 15" RCP CL5
- 14 12" RCP CL5
- 15 60" MH
- 16 72" MH
- 17 CAST IN PLACE WEIR STRUCTURE
- 18 2'X6" CATCH BASIN (DBL INLET)
- 19 2'X3" CATCH BASIN
- 20 36" FLARED END OUTFALL
- 21 CONCRETE PLUG PIPE
- 22 R&R TYPE A C&G
- 23 R&R 4" CONCRETE SIDEWALK
- 24 R&R VINYL FENCE
- 25 R&R WATERWAY
- 26 R&R SIDEWALK/FLATWORK (6" THICK)
- 27 ADA DETECTIBLE SURFACE (GRAY)
- 28 SOD LANDSCAPE RESTORATION
- 30 8" WATERLINE LOOP
- 31 PROTECT IN PLACE

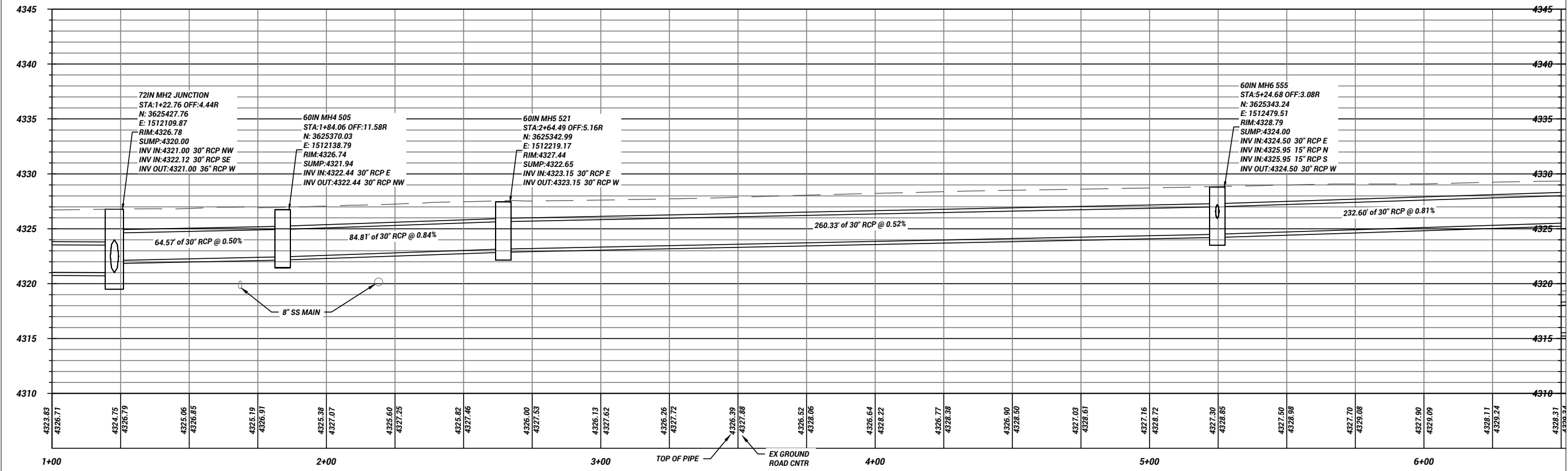
SOD LANDSCAPE RESTORATION

R/R CONCRETE

ASPHALT PATCH

- NOTES:**
- CATCH BASIN RIM ELEVATION AND OFFSET LOCATION SET AT CURB FLOWLINE (1.2' FROM BACK OF CB). MH RIM EL & LOCATION SET AT EX SURFACE AT CENTER OF MH STRUCTURE
 - REMOVE AND REPLACE CURB AND GUTTER TO THE NEAREST JOINT NECESSARY FOR CATCH BASIN INSTALLATION

STORM MAIN PROFILE RIDGE PLACE



SD-3

SHEET 5

REVISION 0

REV	DATE	DESCRIPTION
0		INITIAL

DESIGNED PJS
DRAWN PJS
CHECKED PJS

DATE

DATE

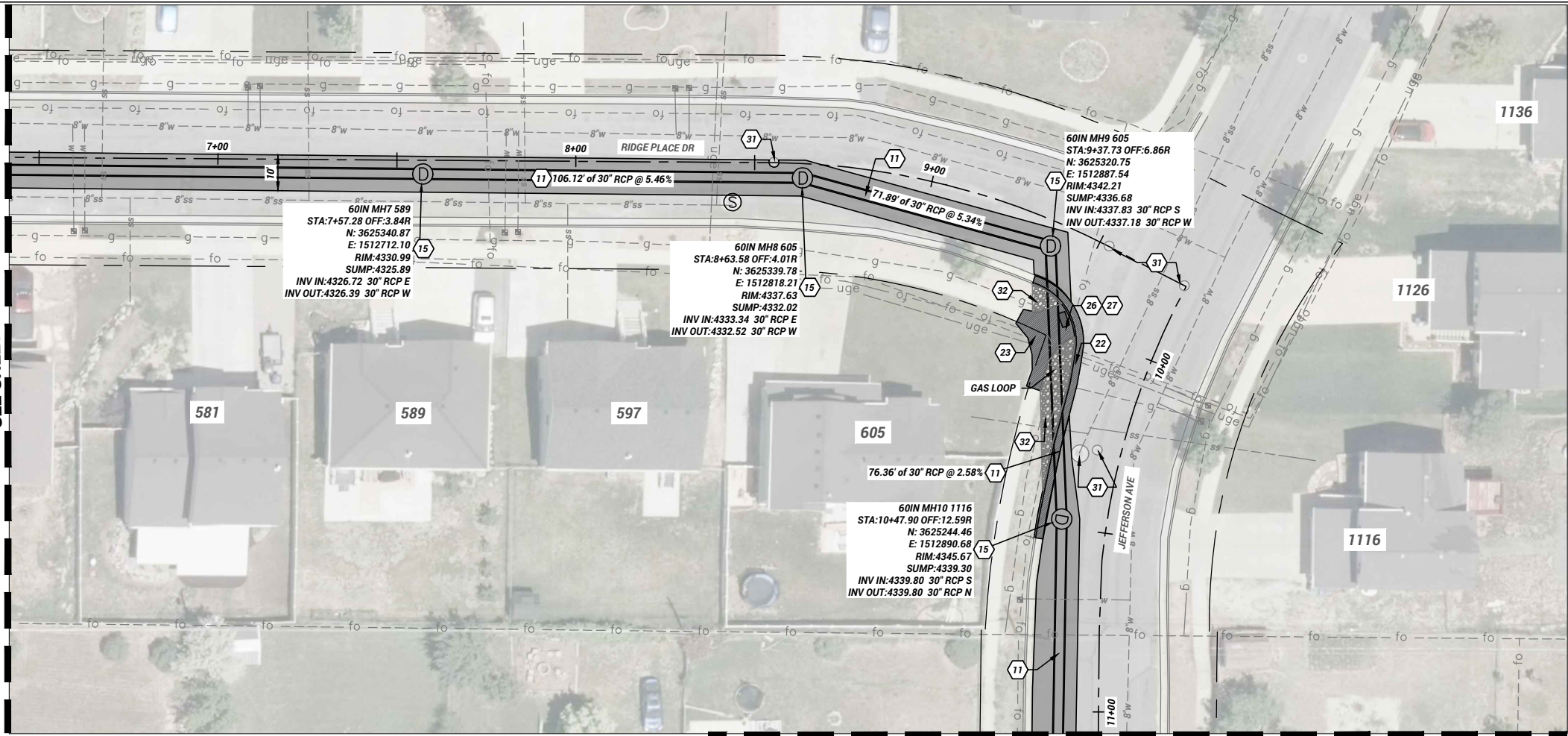
DRAWING SCALE
H: 1" = 20' (22x34)
V: 1" = 40' (11x17)
1" = 5' (22x34)
1" = 10' (11x17)

STORM RIDGE PLACE
DETENTION TO 1100 N STORM PROJECT
Ridge Place Dr

Ogden UTAH *Still Untamed™*
2549 Washington Blvd, Suite 760 Ogden, UT 84401
Phone: 801-629-9980 engineering.ogdenity.com

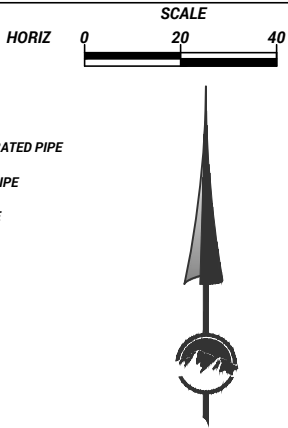
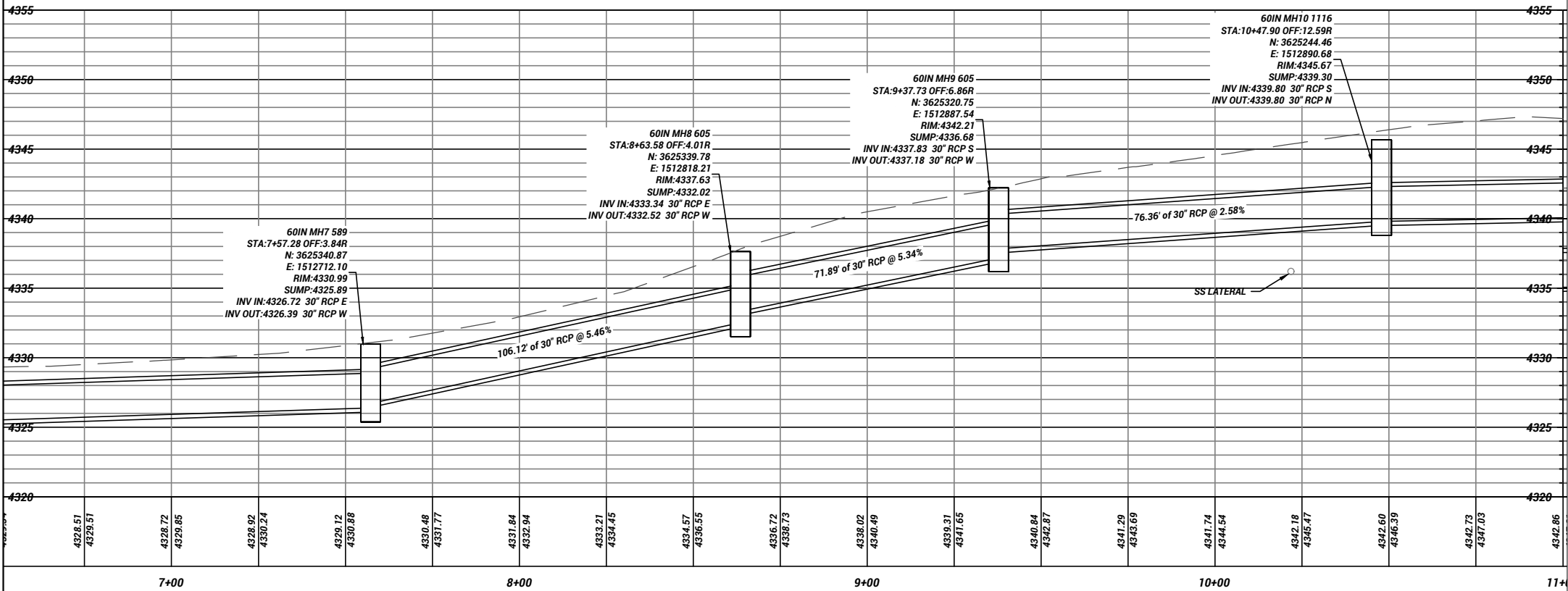
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SEE SHEET SD-3



SEE SHEET SD-5

STORM MAIN PROFILE RIDGE PLACE TO JEFFERSON



KEYED NOTES:

- 7 REMOVE 6" PERFORATED PIPE
- 8 REMOVE 30" CIPP PIPE
- 9 8" SDR-35 PVC PIPE
- 10 36" RCP CL3
- 11 30" RCP CL5
- 12 SLIDE GATE
- 13 15" RCP CL5
- 14 12" RCP CL5
- 15 60" MH
- 16 72" MH
- 17 CAST IN PLACE WEIR STRUCTURE
- 18 2'X6' CATCH BASIN (DBL INLET)
- 19 2'X3' CATCH BASIN
- 20 36" FLARED END OUTFALL
- 21 CONCRETE PLUG PIPE
- 22 R&R TYPE A C&G
- 23 R&R 4" CONCRETE SIDEWALK
- 24 R&R VINYL FENCE
- 25 R&R WATERWAY
- 26 R&R SIDEWALK/FLATWORK (6" THICK)
- 27 ADA DETECTIBLE SURFACE (GRAY)
- 28 SOD LANDSCAPE RESTORATION
- 30 8" WATERLINE LOOP
- 31 PROTECT IN PLACE
- 32 1" COBBLE LANDSCAPE RESTORATION

- 1" COBBLE LANDSCAPE RESTORATION
- R/R CONCRETE
- ASPHALT PATCH

NOTES:

- CATCH BASIN RIM ELEVATION AND OFFSET LOCATION SET AT CURB FLOWLINE (1.2' FROM BACK OF CB). MH RIM EL & LOCATION SET AT EX SURFACE AT CENTER OF MH STRUCTURE
- REMOVE AND REPLACE CURB AND GUTTER TO THE NEAREST JOINT NECESSARY FOR CATCH BASIN INSTALLATION

SD-4

SHEET 7

6

REV	DATE	DESCRIPTION
0	MM/DD/YY	DESCRIPTION
1	2/13/26	replaced sod with cobble
2	2/13/26	show existing to utility

DATE

DATE

PJS

PJS

DESIGNED

DRAWN

CHECKED

DRAWING SCALE

H: 1" = 20' (22x34)

V: 1" = 5' (22x34)

1" = 10' (11x17)

1" COBBLE LANDSCAPE RESTORATION

R/R CONCRETE

ASPHALT PATCH

STORM RIDGE TO JEFF

DETENTION TO 1100 N STORM PROJECT

Ridge Place Dr & Jefferson Ave

Ogden

UTAH

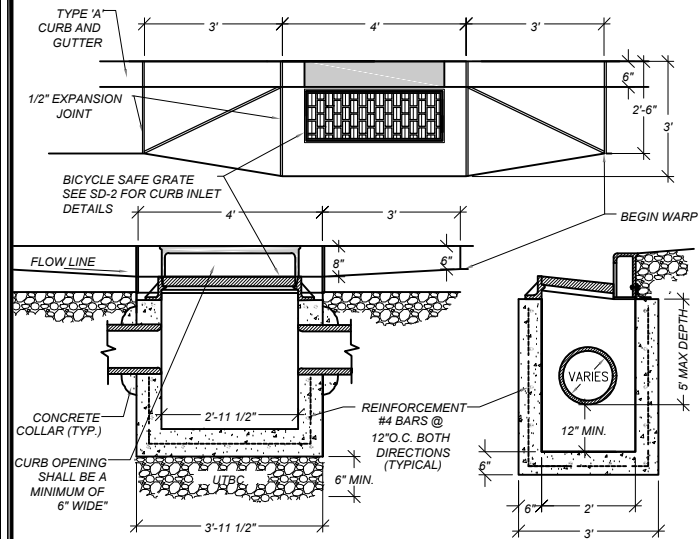
Still Untamed™

2549 Washington Blvd, Suite 760 Ogden, UT 84401

Phone: 801-629-8980 engineering@ogdenity.com

PLAT DATE: 2/13/2026 3:46 PM

DRAWING NAME: SD Sheets (Ridge Place To 1100 N).dwg



NOTES:

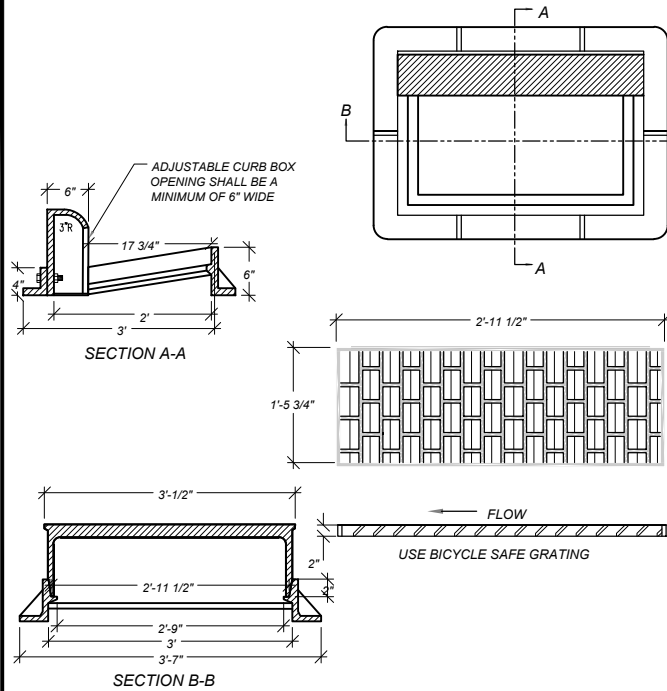
1. COMPACT BASE COURSE AND BACKFILL PER APWA SECTION 31 23 26 TO A DENSITY OF 95 PERCENT. MAXIMUM LIFT THICKNESS IS 8" BEFORE COMPACTION.
 - 1.1. BACKFILL: PROVIDE AND PLACE PER APWA SECTION 31 23 23 ON ALL SIDES OF THE BASIN.
 - 1.2. PROVIDE BASE COURSE MATERIAL PER APWA SECTION 32 11 23. PLACE MATERIAL PER APWA SECTION 31 23 23.
2. REINFORCEMENT SHALL BE PER ASTM A 615, GRADE 60, DEFORMED STEEL.
3. CONCRETE SHALL BE CLASS 4000 PER APWA SECTION 03 30 04. PLACE CONCRETE PER APWA SECTION 03 30 10. CURE PER APWA SECTION 03 39 00. PRECAST CATCH BASINS ARE ACCEPTABLE.
4. CURB FACE OPENING SHALL BE AT LEAST 6" WIDE. PROVIDE A 2" DROP BETWEEN THE 'BEGIN WARP' LINE IN THE GUTTER AND THE TOP OF THE GRATE AT THE CURB OPENING.

OGDEN CITY ENGINEERING - STANDARD DRAWINGS		
CATCH BASIN WITH CURB INLET		SD-1
TAYLOR NIELSEN, CITY ENGINEER	SHEET 1 OF 1	2025

NOTES:

1. COMPACT BACKFILL AND BASE COURSE PER APWA SECTION 31 23 26 TO A DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS BEFORE COMPACTION IS 8" WHEN USING RIDING AND 6" WHEN USING HAND COMPACTION EQUIPMENT.
 - 1.1. BACKFILL: PROVIDE AND PLACE PER APWA SECTION 31 23 23 ON ALL SIDES OF THE BASIN.
 - 1.2. PROVIDE UNTREATED BASE COURSE MATERIAL PER APWA SECTION 32 11 23. PLACE MATERIAL PER APWA SECTION 31 23 23.
 - 1.3. SEWER ROCK (ASTM No. 4) WITH SEPARATION FABRIC IS ACCEPTABLE FOR MANHOLE BEDDING.
2. REINFORCEMENT SHALL BE PER ASTM A 615, GRADE 60, DEFORMED STEEL. REFER TO APWA 03 20 00.
3. CONCRETE SHALL BE PER CLASS 4000 PER APWA SECTION 03 30 04. PLACE CONCRETE PER APWA SECTION 03 30 10. CURE PER APWA SECTION 03 39 00.
4. STATIONING AND ELEVATIONS SHOWN ON THE DRAWING SHOULD MATCH THE CENTERLINE OF THE MANHOLE.
 - 4.1. INV IN: (FLOW LINE IN) ELEVATION APPLIES TO THE POINT OF INTERSECTION OF THE INLET PIPE INVERT AND THE MANHOLE WALL.
 - 4.2. INV OUT: (FLOW LINE OUT) ELEVATION APPLIES TO THE POINT OF INTERSECTION OF THE OUTLET PIPE INVERT AND THE MANHOLE WALL.
5. LOW PROFILE MANHOLE LIDS WILL NOT BE ALLOWED IN ANY OGDEN CITY RIGHT OF WAY.
5. LADDER RUNGS ARE REQUIRED IN ALL BOXES. SEE SS-6 FOR TYPICAL MANHOLE STEP REQUIREMENTS.
6. GROUT ALL PIPE OPENINGS WITH 2:1 SAND/CEMENT MORTAR.
7. PLACE FLEXIBLE GASKET-TYPE SEALANT IN ALL MANHOLE JOINTS. SEAL MUST MEET THE REQUIREMENTS OF SS-S-00210 (210A), AASHTO M-198, AND ASTM C990.
8. PRECAST CONCRETE WALLS MUST BE A MINIMUM OF 5" THICK.
9. CAST-IN-PLACE CONCRETE MUST BE A MINIMUM OF 8" THICK.
10. THE INSTALLED PIPE SHALL BE PLACED SUCH THAT THE HORIZONTAL INSIDE DIAMETER OF THE PIPE INTERSECTS THE INSIDE FACE OF THE RISER.
11. PROVIDE A SMOOTH AND NEAT FINISH ON THE INTERIOR OF THE CONES, SHAFT, RINGS, AND FLOOR. IMPERFECT MOLDINGS OR HONEYCOMBS WILL NOT BE ACCEPTED.

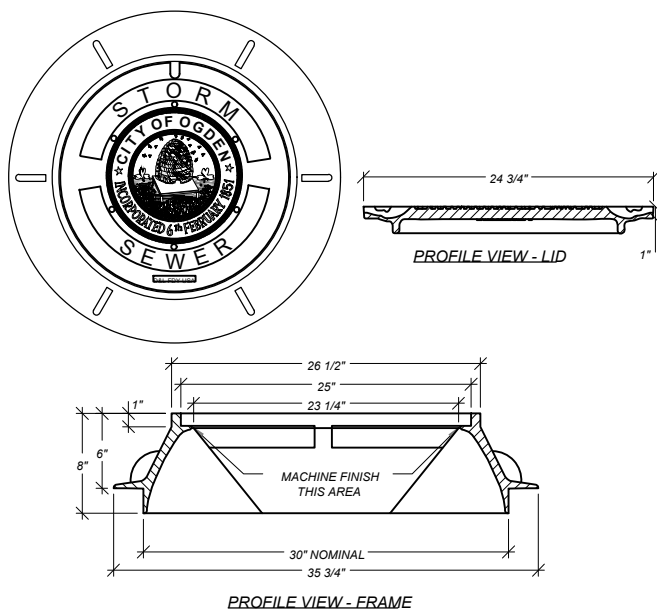
OGDEN CITY ENGINEERING - STANDARD DRAWINGS		
STORM DRAIN MANHOLE (PRECAST)		SD-4
TAYLOR NIELSEN, CITY ENGINEER	SHEET 2 OF 2	2025



NOTES:

1. CASTING: GREY IRON CLASS 35 MINIMUM PER ASTM A 48.
2. COATINGS: EXCEPT MACHINED SURFACES, COAT ALL METAL PARTS WITH ASPHALTUM PAINT.
3. USE STAINLESS STEEL BOLTS, NUTS, AND WASHERS.
4. SEE SD-1 FOR INLET BOX DETAILS.

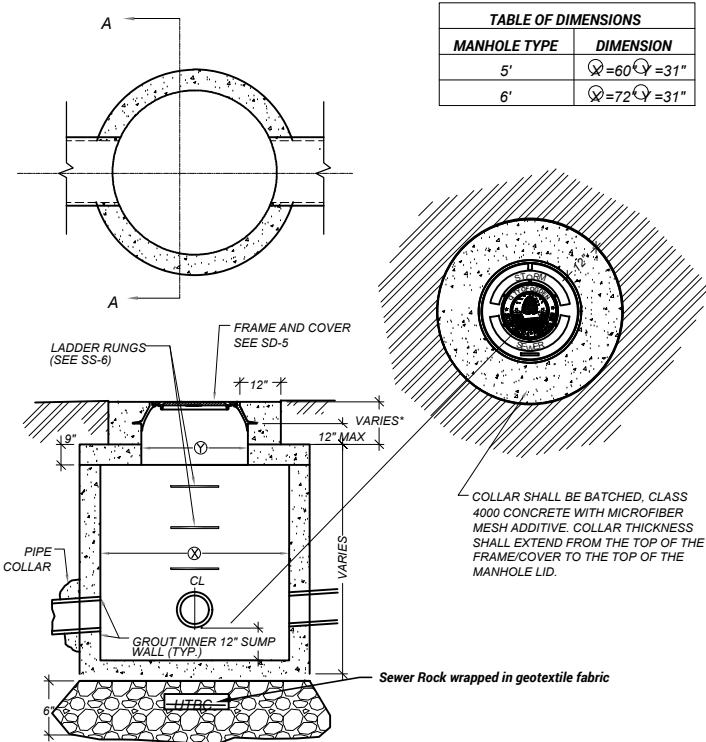
OGDEN CITY ENGINEERING - STANDARD DRAWINGS		
35 1/2" GRATE AND FRAME WITH ADJUSTABLE CURB BOX		SD-2
TAYLOR NIELSEN, CITY ENGINEER	SHEET 1 OF 1	2025



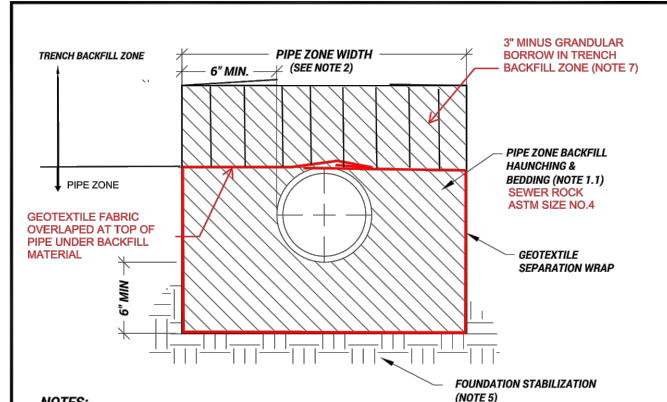
NOTES:

1. CONTACT THE OGDEN CITY STORM WATER DIVISION FOR DETAILS AND ORDERING INFORMATION FOR SEWER LID AND FRAME (801) 629-8331.
2. LOW PROFILE LIDS WILL NOT BE ALLOWED IN ANY OGDEN CITY RIGHT OF WAY.
3. CASTINGS: GREY IRON CLASS 35 MINIMUM PER ASTM A 48.
4. COATINGS: EXCEPT MACHINED SURFACES, COAT ALL METAL PARTS.
5. HEAT NUMBER: PLACE FOUNDRY AND HEAT NUMBER ON THE INSIDE OF THE FRAME AND ON THE BOTTOM OF THE COVER.
6. SEE SD-3 FOR COMBINATION INLET / CLEANOUT BOX, SD-4 FOR STORM DRAIN MANHOLE DETAILS.

OGDEN CITY ENGINEERING - STANDARD DRAWINGS		
STORM DRAIN MANHOLE FRAME AND COVER		SD-5
TAYLOR NIELSEN, CITY ENGINEER	SHEET 1 OF 1	2025



OGDEN CITY ENGINEERING - STANDARD DRAWINGS		
STORM DRAIN MANHOLE (PRECAST)		SD-4
TAYLOR NIELSEN, CITY ENGINEER	SHEET 1 OF 2	2025



NOTES:

1. DO NOT USE RECYCLED FILL MATERIAL IN THE PIPE ZONE WITHOUT THE APPROVAL OF THE CITY ENGINEER. IF MANUFACTURE RECOMMENDS ANYTHING CONTRARY TO WHAT IS LISTED BELOW, CONSULT WITH THE ENGINEERING DEPARTMENT.
 - 1.1. HAUNCHING/BEDDING: INSTALL AND COMPACT PER MANUFACTURER RECOMMENDATIONS AND ASTM SPECIFICATIONS. IMPORT SEWER ROCK ASTM SIZE NO. 4 WITH GEOTEXTILE WRAP.
 - 1.1.1. WATER JETTING IS NOT ALLOWED.
2. PIPE ZONE WIDTH IS RECOMMENDED BY THE MANUFACTURE OF THE PIPE. WIDTH OF PIPE ZONE IS MEASURED AT THE PIPE SPRING LINE AND INCLUDES ANY NECESSARY SHEATHING. FOLLOW MANUFACTURE RECOMMENDATIONS FOR ANY TRENCH BOX APPLICATIONS.
3. INSTALL THE PIPE IN THE CENTER OF THE TRENCH. THE EDGE OF THE PIPE WALL SHALL BE A MINIMUM DISTANCE OF 6" FROM THE TRENCH WALL.
4. PEA GRAVEL OR ANY GRAVEL LESS THAN 3/4" NOMINAL IS NOT ALLOWED IN ANY PART OF THE PIPE ZONE.
5. FOUNDATION STABILIZATION REQUIRES SEWER ROCK PER APWA SECTION 31 05 13.
 - 5.1. INSTALLATION OF STABILIZATION-SEPARATION GEOTEXTILE PER APWA SECTION 31 05 19 WILL BE REQUIRED TO SEPARATE PIPE ZONE MATERIAL AND NATIVE SUBGRADE MATERIAL IF NATIVE SOIL IS FINE AND SEWER ROCK CANNOT PROVIDE A WORKING SURFACE OR PREVENT SOIL MIGRATION.
6. REFER TO APWA SECTION 33 05 07 FOR ADDITIONAL INFORMATION ON PVC PIPE.
7. Backfill (above pipe zone) : Import structural fill (3" Minus per APWA 31 05 13) Compact per section 31 23 26 to a density of 95 percent or greater. Maximum lift thickness before compaction is 6" when using riding and 6" when using hand compaction equipment

OGDEN CITY ENGINEERING - STANDARD DRAWINGS		
STORM SEWER MAIN PIPE ZONE		SD-6A
TAYLOR NIELSEN, CITY ENGINEER	SHEET 1 OF 1	2025

DT-1

SHEET 7
8

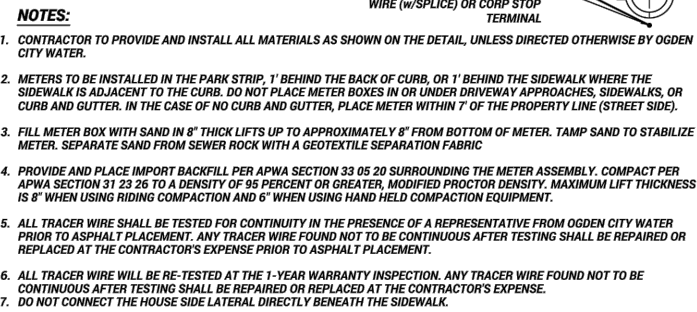
REVISION

REV	DATE	DESCRIPTION
0	MM/DD/YY	DESCRIPTION
1	12/13/25	Replace SD-6 with SD-6A

DESIGNED	DATE	PJS	PJS
	1/29/2026		
DRAWN	CHECKED	DRAWING SCALE	
		H: NONE (22x34)	
		V: NONE (11x17)	
		V: NONE (22x34)	
		V: NONE (11x17)	

STANDARD DRAWINGS
DETENTION TO 1100 N STORM PROJECT
PLOT DATE: 2/13/2026 3:58 PM
DRAWING NAME: G1 Title 1100 N.dwg

Ogden UTAH
Still Untamed™
2549 Washington Blvd, Suite 760 Ogden, UT 84401
Phone: 801-629-8980 engineering.ogden-city.com

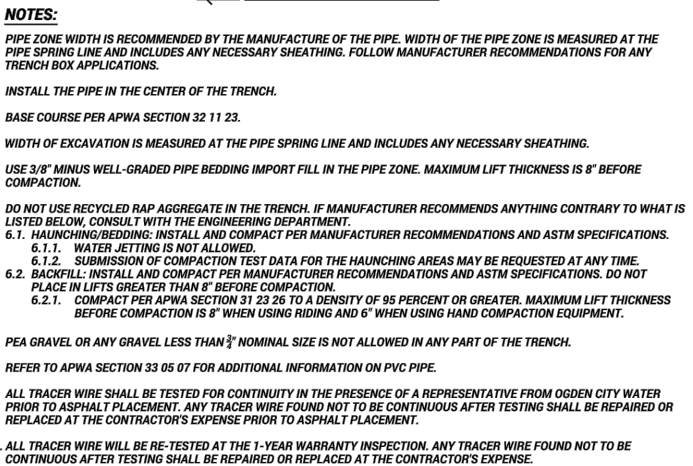


ITEM	QTY	DESCRIPTION
①	1	1" OR SMALLER WATER METER (CITY PROVIDED WITH METER/TAPPING FEE)
②	1	18" FRAME AND COVER WITH RECESSED HOLE FOR ANTENNA READ WITH LARGE BOLT "LB" OPTION
③	1	RAVEN METER BOX OR APPROVED EQUAL
④	1	1" ASSE 1024 DUAL CHECK VALVE (BACKFLOW PREVENTER, TOP ENTRY ONLY)
⑤	1	1" BALL ANGLE VALVE - FORD BA43-444W-Q-NL, MUELLER - B-24258N
⑥	VARIES	1" AWWA C901 CTS POLY TUBING
⑦	VARIES	TRACER WIRE
⑧	1	CORP STOP WITH TEE-HEAD CAP ADAPTOR (TAP HORIZONTALLY)

TYPICAL SERVICE INSTALLATION

W-3

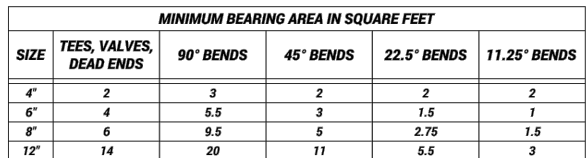
SHEET 1 OF 1	2025
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TYPICAL WATERLINE TRENCH

W-18

SHEET 1 OF 1	2025
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**MINIMUM BEARING AREA IN SQUARE FEET**

SIZE	TEES, VALVES, DEAD ENDS	90° BENDS	45° BENDS	22.5° BENDS	11.25° BENDS
4"	2	3	2	2	2
6"	4	5.5	3	1.5	1
8"	6	9.5	5	2.75	1.5
12"	14	20	11	5.5	3

1. ALL PIPES WITHIN OGDEN CITY MUST BE RESTRAINED USING JOINT RESTRAINT DEVICES. THRUST BLOCKS ARE ONLY TO BE USED IN SITUATIONS THAT WOULD REQUIRE A THRUST BLOCK SUCH AS AT HYDRANTS AND AT CONNECTIONS TO EXISTING.
2. CONCRETE: CLASS 4000 MINIMUM PER APWA SECTION 03 30 04. POUR AGAINST UNDISTURBED SOIL. NO BAG MIXES ALLOWED. SANDIES OR KAPP UCART ARE ALLOWED FOR USE FOR THRUST BLOCKS.
3. PIPE JOINTS: DO NOT COVER WITH CONCRETE. LEAVE COMPLETELY ACCESSIBLE.
4. GREASE: APPLY POLY-FM GREASE TO ALL BURIED METAL SURFACES. WRAP 8 MIL THICK POLYETHYLENE SHEET AND TAPE WRAP.
5. SPECIAL CONSTRUCTION REQUIREMENTS:
 - 5.1. THRUST DESIGN FOR PIPE SIZES OR CONFIGURATIONS NOT SHOWN REQUIRE A SPECIAL DESIGN.
 - 5.2. BEARING AREAS, VOLUMES, AND SPECIAL THRUST BLOCKING DETAILS SHOWN ON CONSTRUCTION PLANS TAKE PRECEDENCE OVER THIS PLAN.
6. INSPECTIONS: PRIOR TO BACKFILLING AROUND THE THRUST BLOCK, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
7. BACKFILL: PROVIDE AND PLACE PER APWA SECTION 33 05 20. COMPACT PER APWA SECTION 31 23 26 TO A DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS IS 8" WHEN USING RIDING COMPACTION AND 6" WHEN USING HANDHELD COMPACTION EQUIPMENT.

DIRECT BEARING THRUST BLOCK

W-16

TAYLOR NIELSEN, CITY ENGINEER

MIX NAME: BARKLEY CABIN BLEND

%PURE	COMMON NAME
46.46%	FESCUE SHEEP
33.78%	CRESTED WHEATGRASS
14.80%	STREAMBANK WHEATGRASS
4.95%	INERT MATTER
0.01%	OTHER CROP
0.01%	WEED SEED



DESIGNED	PJS	DATE
	PJS	1/29/2026

DRAWING SCALE

H: NONE (22x34)
 NONE (11x17)

V: NONE (22x34)
 NONE (11x17)

This bar measures exactly one inch on the original drawing

DETAILS

DETENTION TO 1100 N STORM PROJECT

DRAWING NAME: G1 Title 1100 N.dwg

DRAWING NAME: G1 Title 1100 N.dwa



2549 Washington Blvd, Suite 760 Ogden, UT 84401
Phone: 801-629-8980 engineering.ogdencity.com

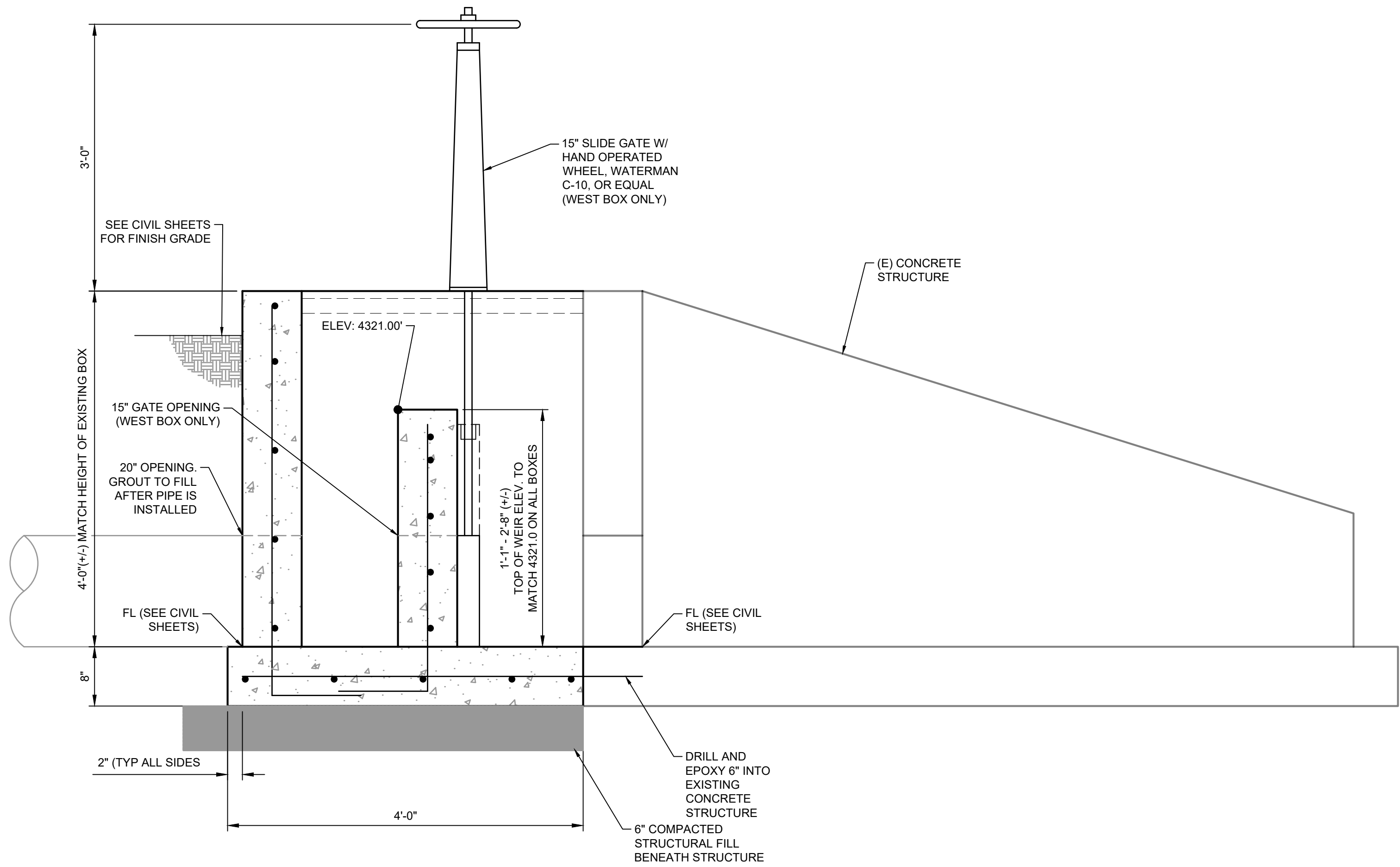
Plot Date: 2/11/2026 9:26 AM Plotted By: Jana C. Hurst
Date Created: 1/21/2026 JUB.COM/CENTRAL/Clients/UTOGDEN/CITYPROJECT/ISSUES-25-020 JACKSONCANYONVIEW/SDANALYSIS/DESIGN/CAUSHEET/ISSUES-25-020 S-001X.DWG

JUB J-U-B ENGINEERS, INC.		J-U-B ENGINEERS, INC. 745 W. Hanley Ave. Suite 301 Coeur d'Alene, ID 83815 Phone: 208.762.8787 www.jub.com																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
REUSE OF DRAWINGS JUB SHALL RETAIN ALL RIGHTS IN ANY DRAWING, COPYRIGHT AND OTHER RESERVED RIGHTS OF THESE DRAWINGS, AND THE SAME SHALL NOT BE REUSED WITHOUT J-U-B'S PRIOR WRITTEN CONSENT. ANY REUSE WITHOUT WRITTEN CONSENT BY J-U-B WILL BE AT CLIENT'S SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO J-U-B.		REVISION 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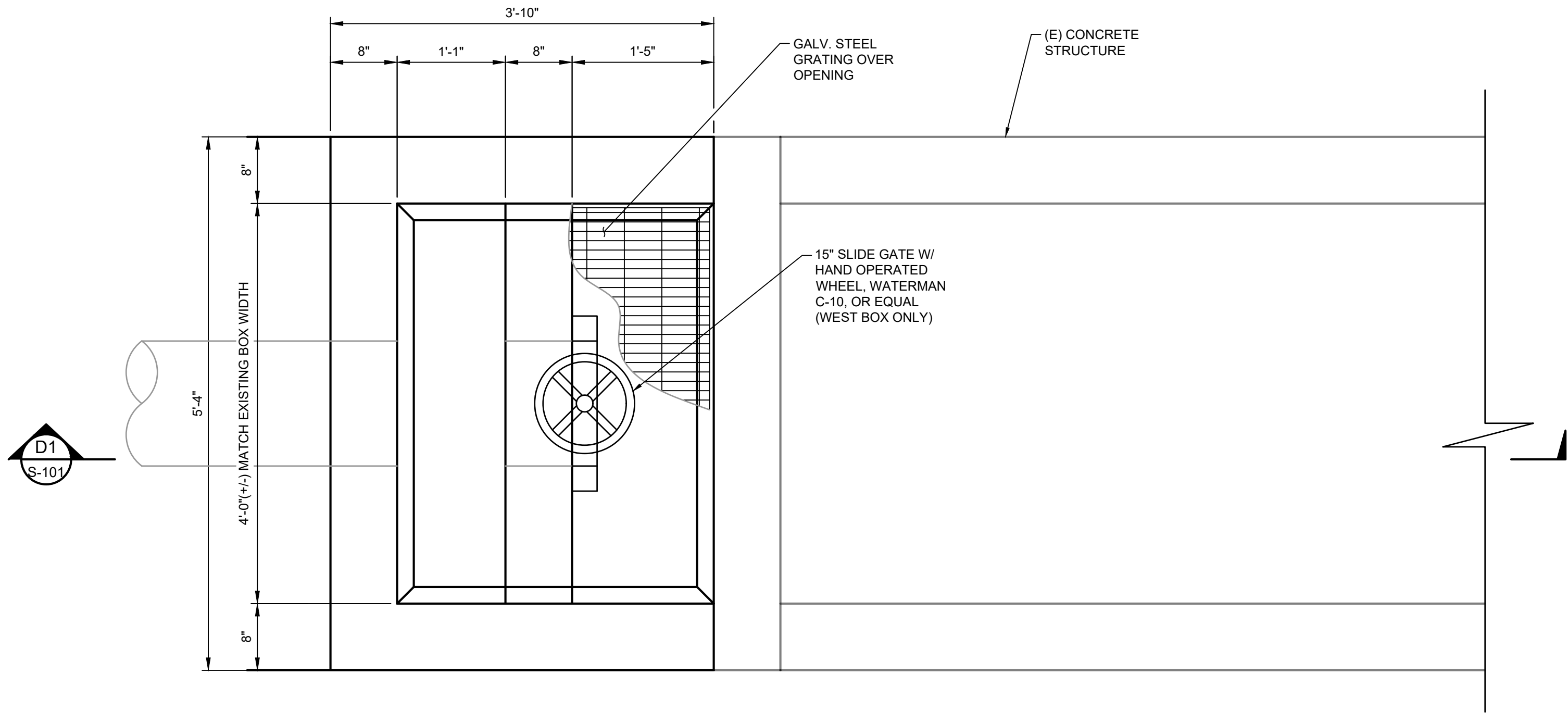
CONCRETE QUALITY AND DETAILS		DETAILS OF REINFORCEMENT	
A. GENERAL. CONCRETE SHALL BE PROPORTIONED TO PROVIDE AN AVERAGE COMPRESSIVE STRENGTH, FC, AS PRESCRIBED IN ACI 318/350 AND SHALL SATISFY THE DURABILITY CRITERIA OF ACI 318/350. B. CONCRETE PROPORTIONS. i. CONCRETE MIX PROPORTIONING SHALL BE IN ACCORDANCE WITH ACI 211.1: STANDARD PRACTICE FOR SELECTING PROPORTIONS FOR NORMAL-DENSITY AND HIGH-DENSITY CONCRETE. ii. CONCRETE MIX PROPORTIONING FOR LIGHTWEIGHT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 211.2: STANDARD PRACTICE FOR SELECTING PROPORTIONS FOR LIGHTWEIGHT CONCRETE. C. CONCRETE MIX VERIFICATION: CONCRETE MIX DESIGNS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39. D. EVALUATION AND ACCEPTANCE OF CONCRETE. CONCRETE SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318/350. E. MIXING & PLACING CONCRETE. CONCRETE SHALL BE PREPARED, MIXED, PLACED AND CONSOLIDATED IN ACCORDANCE WITH ACI 318/350 AND AS FOLLOWS: i. ACI 304: GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE. ii. ACI 309: GUIDE FOR CONSOLIDATION OF CONCRETE. F. MINIMUM TIME BETWEEN ADJACENT PLACEMENTS: i. NON-LIQUID RETAINING STRUCTURES: (a) CONSTRUCTION JOINTS: FIVE (5) DAYS WET CURE, OR SEVEN (7) DAYS DRY CURE. (b) CONTROL JOINTS: TWO (2) DAYS. (c) EXPANSION JOINTS: ONE (1) DAY. ii. FLOOR SLABS: (a) CONSTRUCTION JOINTS: SEVEN (7) DAYS WET CURE, OR TEN (10) DAYS DRY CURE. (b) CONTROL JOINTS: FOUR (4) DAYS. (c) EXPANSION JOINTS: ONE (1) DAY. iii. LIQUID RETAINING STRUCTURES: (a) CONSTRUCTION JOINTS: TEN (10) DAYS WET CURE, OR FOURTEEN (14) DAYS DRY CURE. (b) CONTROL JOINTS: SIX (6) DAYS. G. HORIZONTAL JOINTS IN REINFORCED CONCRETE WALLS: i. PROVIDE A LAYER OF SLURRY CONCRETE IN THE BOTTOM OF ALL HORIZONTAL WALL JOINTS, 1-INCH MINIMUM TO 2-INCH MAXIMUM THICKNESS. THOROUGHLY VIBRATE TO MIX CONCRETE & SLURRY TOGETHER. H. HORIZONTAL CONSTRUCTION JOINTS CONTAINING WATER-STOP. i. UNLESS OTHERWISE SPECIFICALLY DIRECTED, IN ALL HORIZONTAL CONSTRUCTION JOINTS IN NEW CONCRETE CONSTRUCTION CONTAINING WATER-STOPS, PROVIDE AN INITIAL LAYER OF SLURRY MIX TO AID IN CONSOLIDATION OF FRESHLY PLACED CONCRETE AT THE JOINT INTERFACE. ii. SLURRY MIX SHALL BE A MIXTURE OF 3/8-INCH MAXIMUM AGGREGATE, SAND, CEMENT AND WATER. iii. PLACE SLURRY MIX 2-INCH MINIMUM TO 4-INCH MAXIMUM IN THICKNESS. iv. PLACE WITH BUCKETS OR OTHER MEANS PERMITTING VISUAL VERIFICATION THAT ONLY ENOUGH SLURRY MIX IS DEPOSITED IN THE VICINITY OF THE CONCRETE POUR TO MEET THE THICKNESS REQUIREMENTS. v. PLACE CONCRETE OVER SLURRY MIX WHILE SLURRY MIX IS STILL FLOWABLE. vi. LIMIT INITIAL CONCRETE PLACEMENT ON TOP OF SLURRY MIX TO 12-INCHES IN THICKNESS. THOROUGHLY VIBRATE AND CONSOLIDATE CONCRETE AND SLURRY MIX TOGETHER. vii. CONCRETE CURING. CONCRETE SHALL BE MAINTAINED ABOVE 50-DEGREES F AND IN A MOIST CONDITION FOR AT LEAST 7 DAYS AFTER PLACEMENT, EXCEPT WHEN CURED IN ACCORDANCE WITH ACI 308 GUIDE TO EXTERNAL CURING OF CONCRETE. I. COLD WEATHER REQUIREMENTS. ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR-FREEZING WEATHER. THE RECOMMENDED PROCEDURES LISTED IN ACI 306: COLD WEATHER CONCRETING SHALL BE FOLLOWED. i. COLD WEATHER IS DEFINED AS A PERIOD WHEN, FOR MORE THAN 3 CONSECUTIVE DAYS, THE FOLLOWING CONDITIONS EXIST: (a) THE AVERAGE DAILY AIR TEMPERATURE IS LESS THAN 40-DEGREES F AND (b) THE AIR TEMPERATURE IS NOT GREATER THAN 50-DEGREES F FOR MORE THAN ONE-HALF OF ANY 24-HOUR PERIOD. J. HOT WEATHER REQUIREMENTS. DURING HOT WEATHER, PROPER ATTENTION SHALL BE GIVEN TO INGREDIENTS, PRODUCTION METHODS, HANDLING, PLACING, PROTECTION, AND CURING TO PREVENT EXCESSIVE CONCRETE TEMPERATURES OR WATER EVAPORATION THAT COULD IMPAIR REQUIRED STRENGTH OR SERVICEABILITY OF THE MEMBER OR STRUCTURE. THE RECOMMENDED PROCEDURES LISTED IN ACI 305: HOT WEATHER CONCRETING SHALL BE FOLLOWED. i. HOT WEATHER IS ANY COMBINATION OF THE FOLLOWING CONDITIONS THAT TENDS TO IMPAIR THE QUALITY OF FRESHLY MIXED OR HARDENED CONCRETE BY ACCELERATING THE RATE OF MOISTURE LOSS AND RATE OF CEMENT HYDRATION, OR OTHERWISE CAUSING DETRIMENTAL RESULTS: (a) HIGH AMBIENT TEMPERATURE. (b) HIGH CONCRETE TEMPERATURE. (c) LOW RELATIVE HUMIDITY. (d) WIND SPEED. (e) SOLAR RADIATION.		A. PLACEMENT OF ALL REINFORCING STEEL WITHIN CONCRETE STRUCTURES SHALL BE IN CONFORMANCE WITH ACI 318/350. B. REINFORCING STEEL HOOKS, BENDS, TIES, SPLICES AND OTHER REINFORCEMENT DETAILS SHALL BE IN ACCORDANCE WITH ACI 315, GUIDE TO PRESENTING REINFORCING STEEL DESIGN DETAILS. C. SPACING LIMITS FOR REINFORCEMENT SHALL BE IN CONFORMANCE WITH ACI 318/350. D. CONCRETE PROTECTION FOR REINFORCEMENT: UNLESS NOTED ELSEWHERE ON THE DRAWINGS, ALL REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER: i. FOR NON-LIQUID CONTAINING CONCRETE STRUCTURES; PER ACI 318: (a) CONCRETE CAST AGAINST EARTH: 3.00 INCH (b) CONCRETE EXPOSED TO EARTH OR WEATHER: - NO. 5 OR SMALLER BARS: 1.50-INCH - NO. 6 OR LARGER BARS: 2.00-INCH (c) CONCRETE NOT EXPOSED TO EARTH OR WEATHER: - NO. 11 OR SMALLER BARS: 0.75-INCH - NO. 14 OR LARGER BARS: 1.50-INCH (d) BEAMS AND COLUMNS: - PRIMARY REINFORCEMENT, TIES, STIRRUPS, OR SPIRALS: 1.50-INCH ii. FOR LIQUID CONTAINING CONCRETE STRUCTURES; PER ACI 350: (a) CONCRETE CAST AGAINST EARTH: 3.00 INCH (b) CONCRETE EXPOSED TO EARTH, LIQUID OR WEATHER: - SLABS AND JOINTS: 2.00-INCH - WALLS: 2.00-INCH (c) BEAMS AND COLUMNS: - TIES, STIRRUPS, OR SPIRALS: 2.00-INCH - PRIMARY REINFORCEMENT: 2.50-INCH (d) FOOTINGS AND BASE SLABS: - FORMED SURFACES: 2.00-INCH - TOP OF FOOTINGS AND BASE SLABS: 2.00-INCH E. CONCRETE BLOCKS OR PLASTIC-COATED BAR CHAIRS SHALL BE PROVIDED FOR SUPPORT OF ALL SLAB REINFORCING STEEL. SUFFICIENT IN NUMBER TO PREVENT SETTLEMENT OR SAGGING, BUT IN NO CASE SHALL SUCH SUPPORT BE CONTINUOUS. METAL CLIPS OR SUPPORTS SHALL NOT BE PLACED IN CONTACT WITH THE FORMS OR THE SUB-GRADE. F. DOWELS AND ANCHOR BOLTS SHALL BE WIRED OR OTHERWISE HELD IN CORRECT POSITION PRIOR TO PLACING CONCRETE. CARE SHALL BE TAKEN TO ENSURE THAT DOWELS AND ANCHOR BOLTS REMAIN PLUMB AFTER CONCRETE IS POURED AND VIBRATED. IN NO CASE SHALL DOWELS OR ANCHOR BOLTS BE STABBED INTO FRESHLY POURED CONCRETE! G. PROVIDE DOWELS IN FOOTINGS AND AT CONSTRUCTION JOINTS TO MATCH VERTICAL REINFORCING BAR SIZE AND SPACING, UNLESS OTHERWISE NOTED ON THE DRAWINGS. H. COORDINATE PLACEMENT OF DOWELS INTO MASONRY OR BRICK WALLS WITH THE MASONRY SHOP DRAWINGS. I. WHERE DRILLED IN ANCHORS ARE TO BE POST-INSTALLED INTO CONCRETE SURFACES TAKE CARE TO LOCATE REINFORCING STEEL SO THAT IT WILL NOT INTERFERE WITH THE DRILLING OPERATIONS. MOVE BARS PLUS OR MINUS 1 TO 2 INCHES IN ORDER TO AVOID DRILLING CONFLICTS. J. ALL BAR BENDS, HOOKS, SPLICES AND OTHER REINFORCING STEEL DETAILS SHALL CONFORM TO THE REQUIREMENTS OF ACI 315. K. UNLESS OTHERWISE NOTED ON THE PLANS ALL BARS SHALL BE SPLICED WITH A MINIMUM CLASS B LAP SPLICE; LAP SPLICES OF DEFORMED BARS AND DEFORMED WIRE IN COMPRESSION ZONES MAY BE CLASS A SPLICES. L. AT ALL CORNERS AND WALL INTERSECTIONS PROVIDE BENT BARS TO MATCH THE HORIZONTAL REINFORCING STEEL AND IN ACCORDANCE WITH THE TYPICAL CORNER REINFORCING DETAILS. M. CHAMFER ALL EXPOSED CORNERS AND FILLET ENTRANT ANGLES 3/4" UNLESS OTHERWISE NOTED ON THE DRAWINGS. N. WATERSTOP. ALL CONTROL AND CONSTRUCTION JOINTS IN LIQUID-RETAINING STRUCTURES SHALL BE DOWELED, KEYED AND PROVIDED WITH CONTINUOUS WATERSTOP, PER THE TYPICAL DETAILS, TECHNICAL SPECIFICATIONS OR AS DIRECTED BY THE PROJECT ENGINEER. O. AT SLAB AND WALL OPENINGS PROVIDE A MINIMUM OF (4) #5 BARS: OVER, UNDER AND AT EITHER SIDE OF THE OPENINGS. EXTEND THESE BARS A MINIMUM OF 24" PAST THE OPENING EDGE. PROVIDE (1) MATT OF (4) #5 BARS FOR WALLS OR SLABS WITH SINGLE-LAYER REINFORCING AND (2) MATTS OF (4) #5 BARS FOR DOUBLE-LAYER REINFORCING WALLS OR SLABS. PROVIDE #4, 4'-0" LONG DIAGONAL BARS AT EACH RE-ENTRANT CORNER IN SLABS; (1) BAR FOR SLABS WITH SINGLE LAYER REINFORCING AND (2) BARS FOR SLABS WITH DOUBLE LAYER REINFORCING.	
JACKSON CANYON VIEW SD ANALYSIS OGDEN CITY		GENERAL STRUCTURAL NOTES	
FILE : 55-25-020 S-001X JUB PROJ. # :55-25-020 DRAWN BY: EM DESIGN BY: JCH CHECKED BY: — ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY LAST UPDATED: 1/28/2026 SHEET NUMBER: S-002		JUB J-U-B ENGINEERS, INC. J-U-B ENGINEERS, INC. 745 W. Hanley Ave. Suite 301 Coeur d'Alene, ID 83815 Phone: 208.762.8787 www.jub.com	

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D1 **OUTFALL STRUCTURE SECTION**
SCALE: 1" = 1'-0"



B1 **OUTFALL STRUCTURE PLAN**
SCALE: 1" = 1'-0"





J-U-B ENGINEERS, INC.

J-U-B ENGINEERS, INC.
745 W. Hanley Ave.
Suite 301
Coeur d'Alene, ID 83815
Phone: 208.762.8787
www.jub.com

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