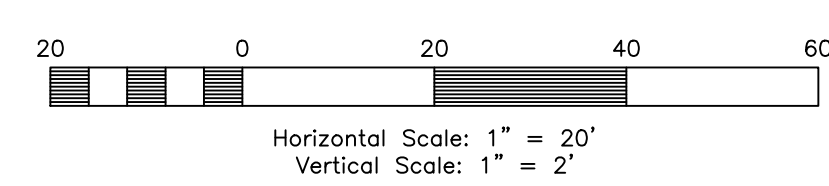


**4125 West 0+00.00 - 5+00.00**

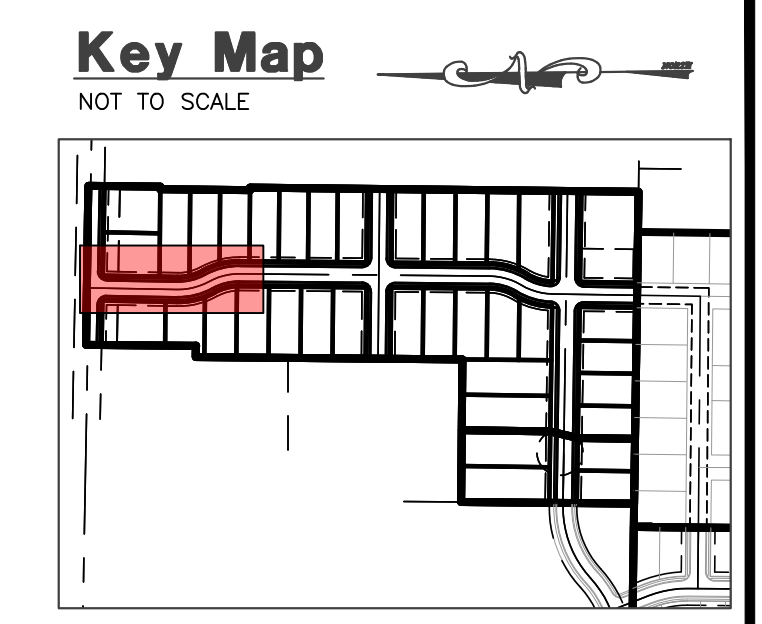
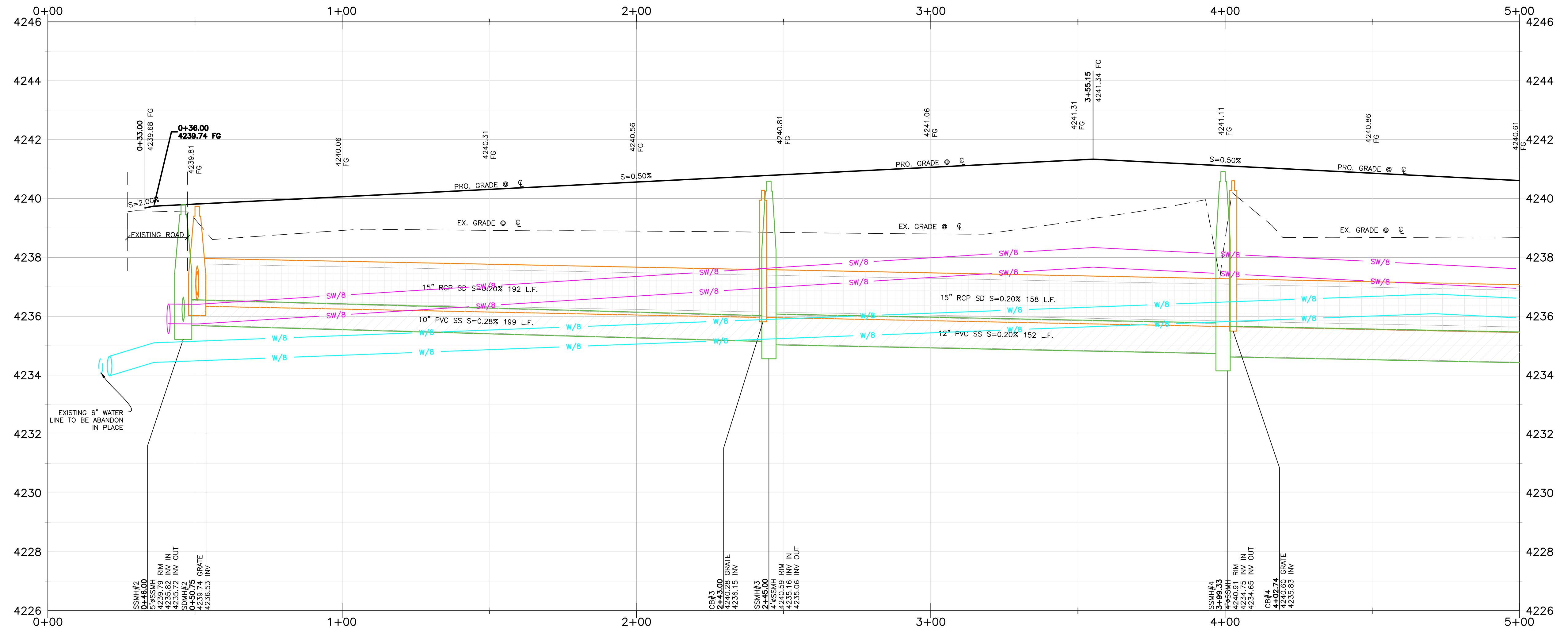


**Centerline Curve Data**

#	Delta	Radius	Length	Tangent	Chord	CH Length
C1	30°00'28"	150.00'	78.56'	40.20'	S13°57'40"E	77.67'
C2	29°28'41"	150.00'	77.17'	39.46'	S14°13'34"E	76.33'

**TBC Curve Data**

#	Delta	Radius	Length	Tangent	Chord	CH Length
C1	90°00'00"	20.00'	31.42'	20.00'	N43°57'26"W	28.28'
C2	90°00'00"	20.00'	31.42'	20.00'	S46°02'34"W	28.28'
C3	30°00'28"	170.00'	89.04'	45.56'	S13°57'40"E	88.02'
C4	29°28'41"	130.00'	66.88'	34.20'	N14°13'34"W	66.15'
C5	29°28'41"	170.00'	87.46'	44.72'	N14°13'34"W	86.50'
C6	30°00'28"	130.00'	68.09'	34.84'	S13°57'40"E	67.31'



- Construction Notes:**
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NOTE: 4" MIN. COVER REQUIRED OVER CW LINES  
W/8 - 8" PVC C900 DR-18 WATER LINE  
W - 1" SDR-9 POLY SERVICE LATERAL
- SANITARY SEWER**  
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- STORM DRAIN**  
SD/12 - 12" RCP CLASS III STORM DRAIN  
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SD/18 - 18" RCP CLASS III STORM DRAIN
- SECONDARY WATER**  
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IRR/18 - 18" RCP CLASS III IRRIGATION PIPE

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**REVISIONS**

DATE	DESCRIPTION
08-01-23	NF City Comments
08-07-23	NF Irr. & Wtr. Comments

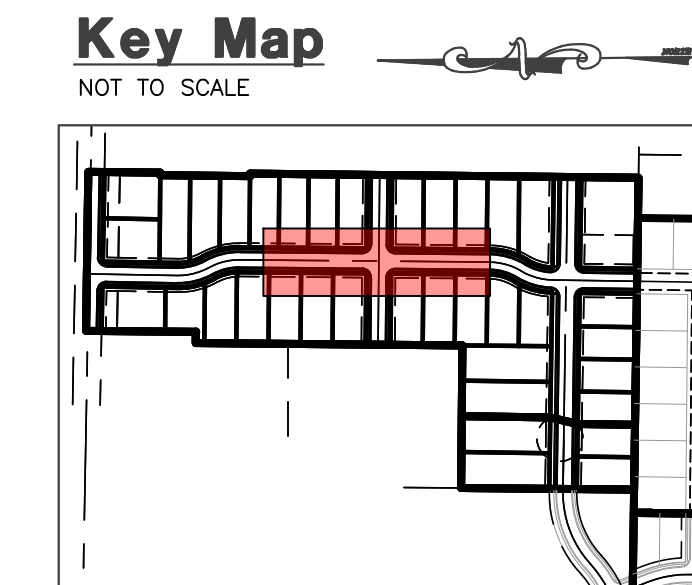
**Anselmi Acres Subdivision**  
WEBER COUNTY, UTAH

**4125 West 0+00.00 - 5+00.00**



**Project Info.**  
Engineer: J. NATE REEVE, P.E.  
Drafter: N. FICKLIN  
Begin Date: MAY, 2023  
Name: ANSELMI ACRES SUBDIVISION  
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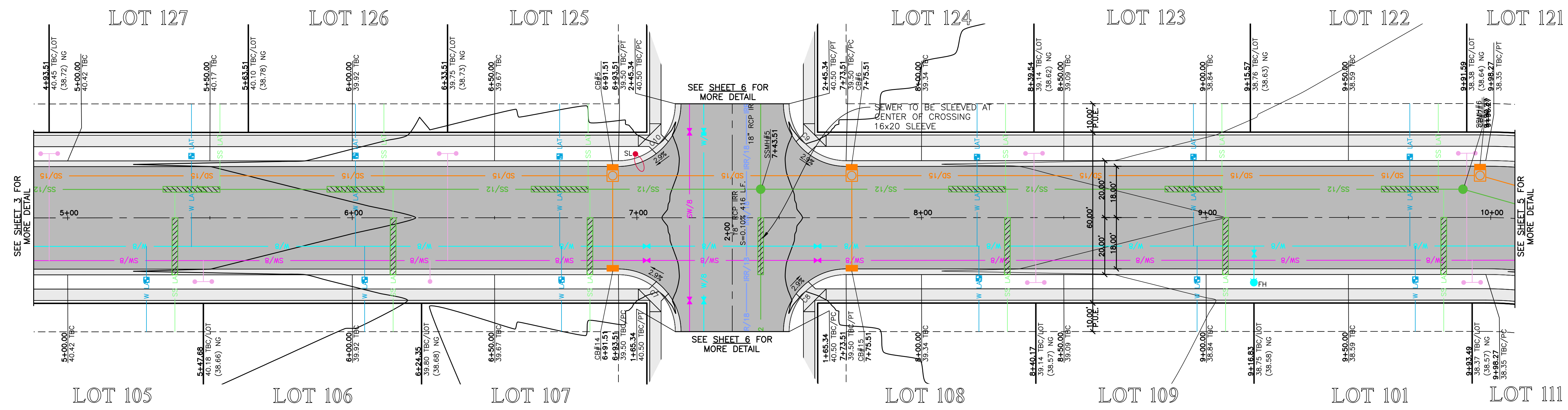


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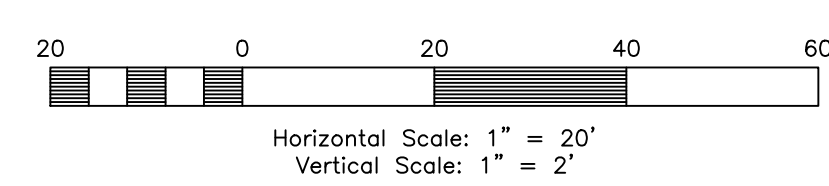


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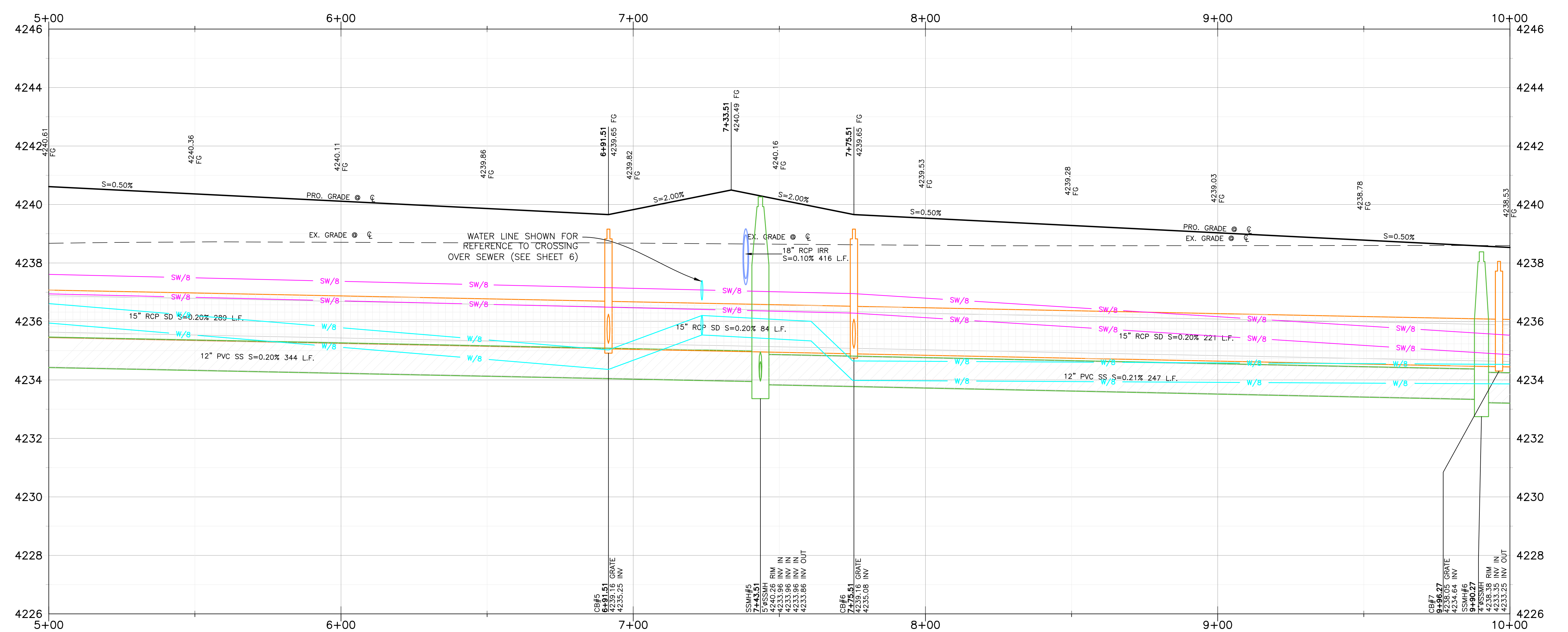
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**4125 West 5+00.00 - 10+00.00**



**TBC Curve Data**

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C7	90°00'00"	20.00'	31.42'	20.00'	N45°30'47"E	28.28'
C8	90°00'00"	20.00'	31.42'	20.00'	N44°29'13"W	28.28'
C9	90°00'00"	20.00'	31.42'	20.00'	S45°30'47"W	28.28'
C10	90°00'00"	20.00'	31.42'	20.00'	S44°29'13"E	28.28'



**Anselmi Acres Subdivision**

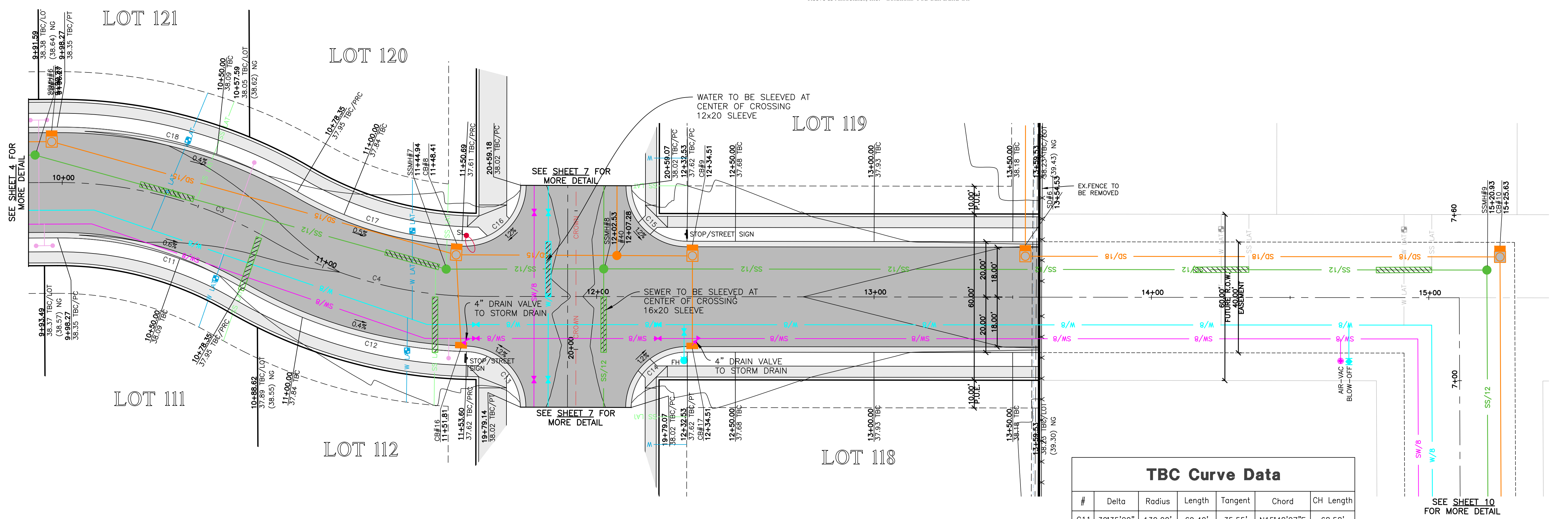
WEBER COUNTY, UTAH

**4125 West 5+00.00 - 10+00.00**

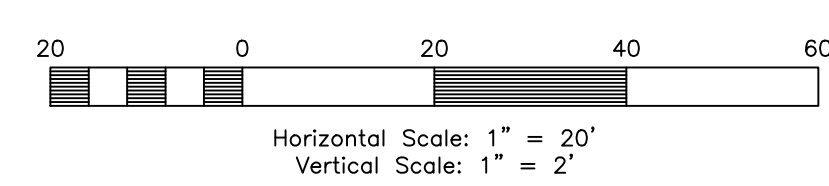


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Begin Date: MAY, 2023  
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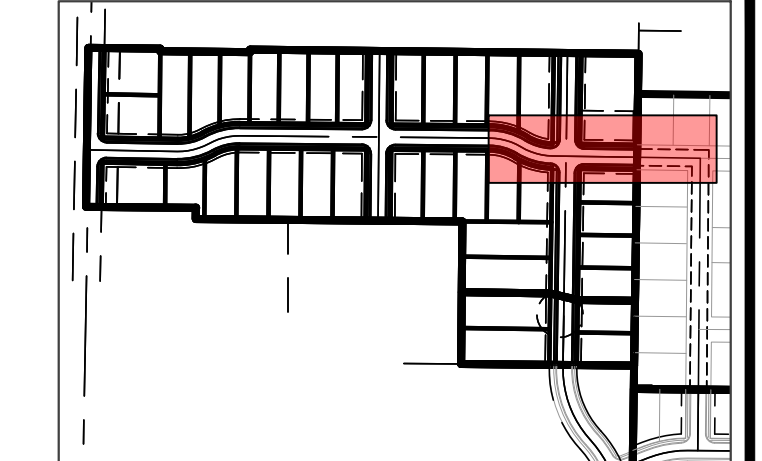
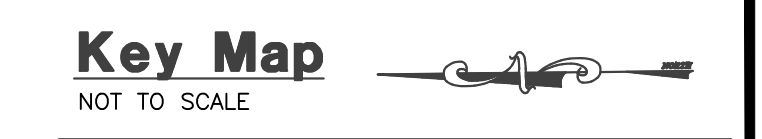
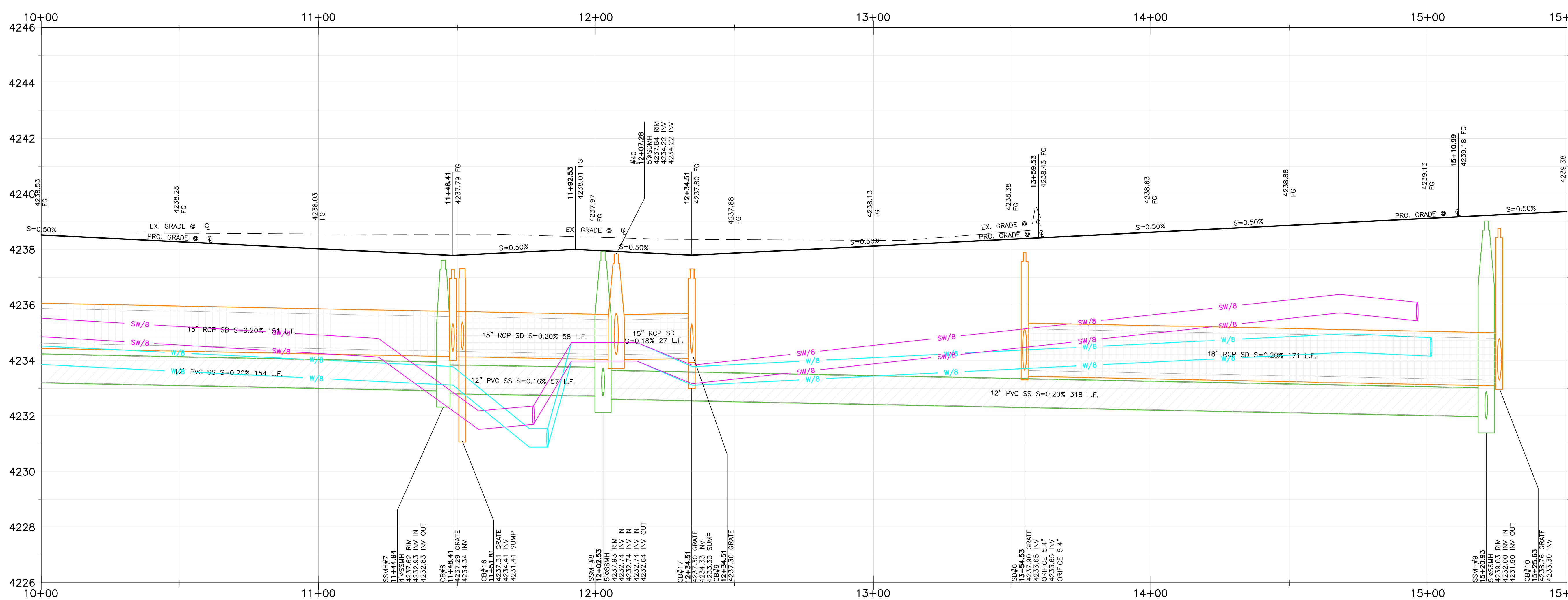


**4125 West 10+00.00 - 15+50.00**



#	Delta	Radius	Length	Tangent	Chord	CH Length
C3	30°35'20"	150.00'	80.08'	41.02'	S15°48'27"W	79.13'
C4	30°16'08"	150.00'	79.24'	40.57'	S15°58'03"W	78.33'

#	Delta	Radius	Length	Tangent	Chord	CH Length
C11	30°35'20"	130.00'	69.40'	35.55'	N15°48'27"E	68.58'
C12	28°44'31"	170.00'	85.28'	43.56'	S16°43'52"W	84.39'
C13	88°28'20"	20.00'	30.88'	19.47'	N46°35'46"E	27.90'
C14	90°00'03"	20.00'	31.42'	20.00'	N44°10'03"W	28.28'
C15	89°59'57"	20.00'	31.42'	20.00'	S45°49'57"W	28.28'
C16	92°38'23"	20.00'	32.34'	20.94'	S42°50'53"E	28.93'
C17	27°37'49"	130.00'	62.69'	31.97'	S17°17'13"W	62.09'
C18	30°35'20"	170.00'	90.76'	46.49'	N15°48'27"E	89.69'



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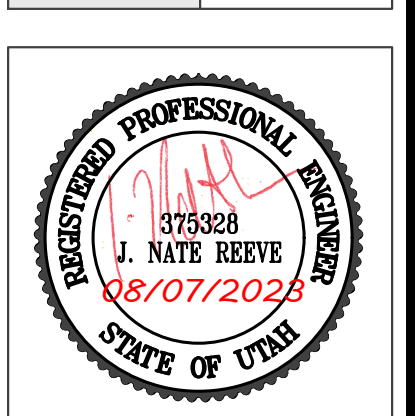
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**RA**

REVISIONS  
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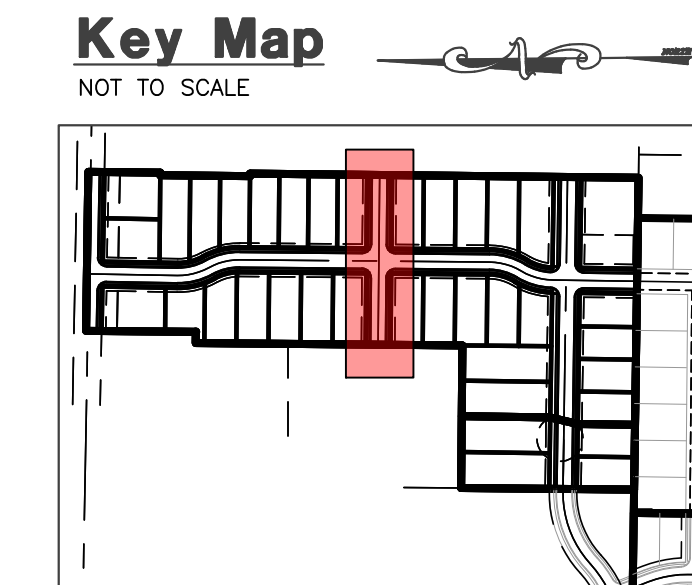
**Anselmi Acres Subdivision**  
 WEBER COUNTY, UTAH

**4125 West 10+00.00 - 15+50.00**



**Project Info.**  
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 Drafter: N. FICKLIN  
 Begin Date: MAY, 2023  
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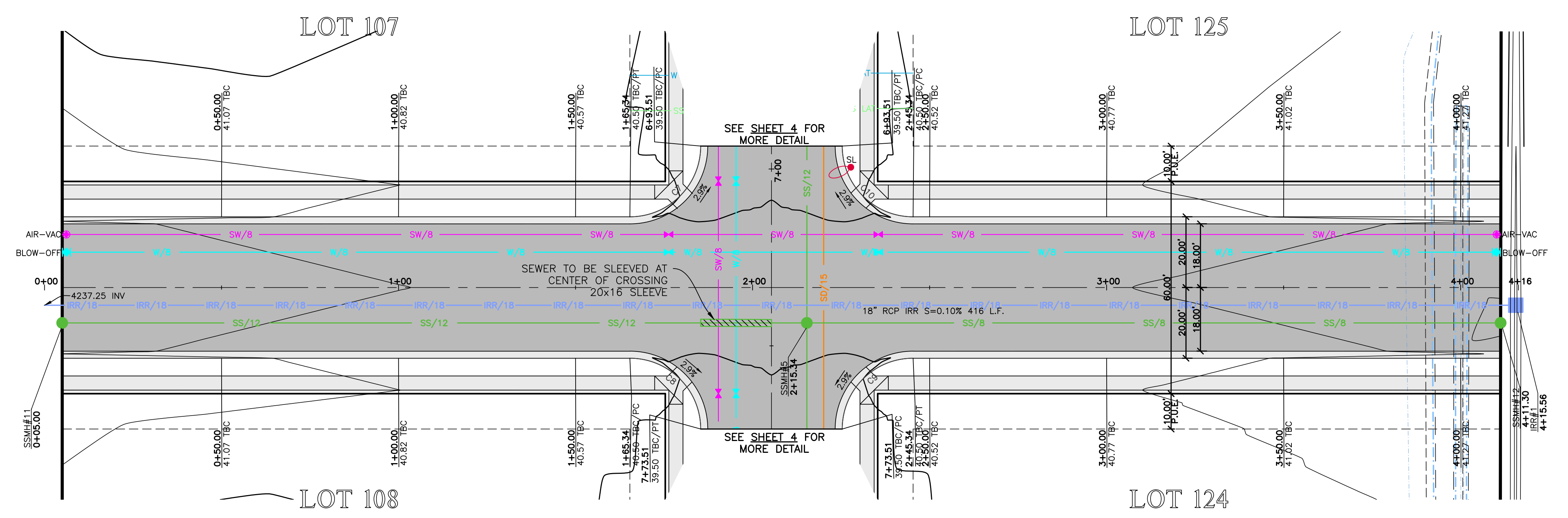
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**Anselmi Acres Subdivision**  
 WEBER COUNTY, UTAH

**A Street 0+00.00 - 4+16.00**



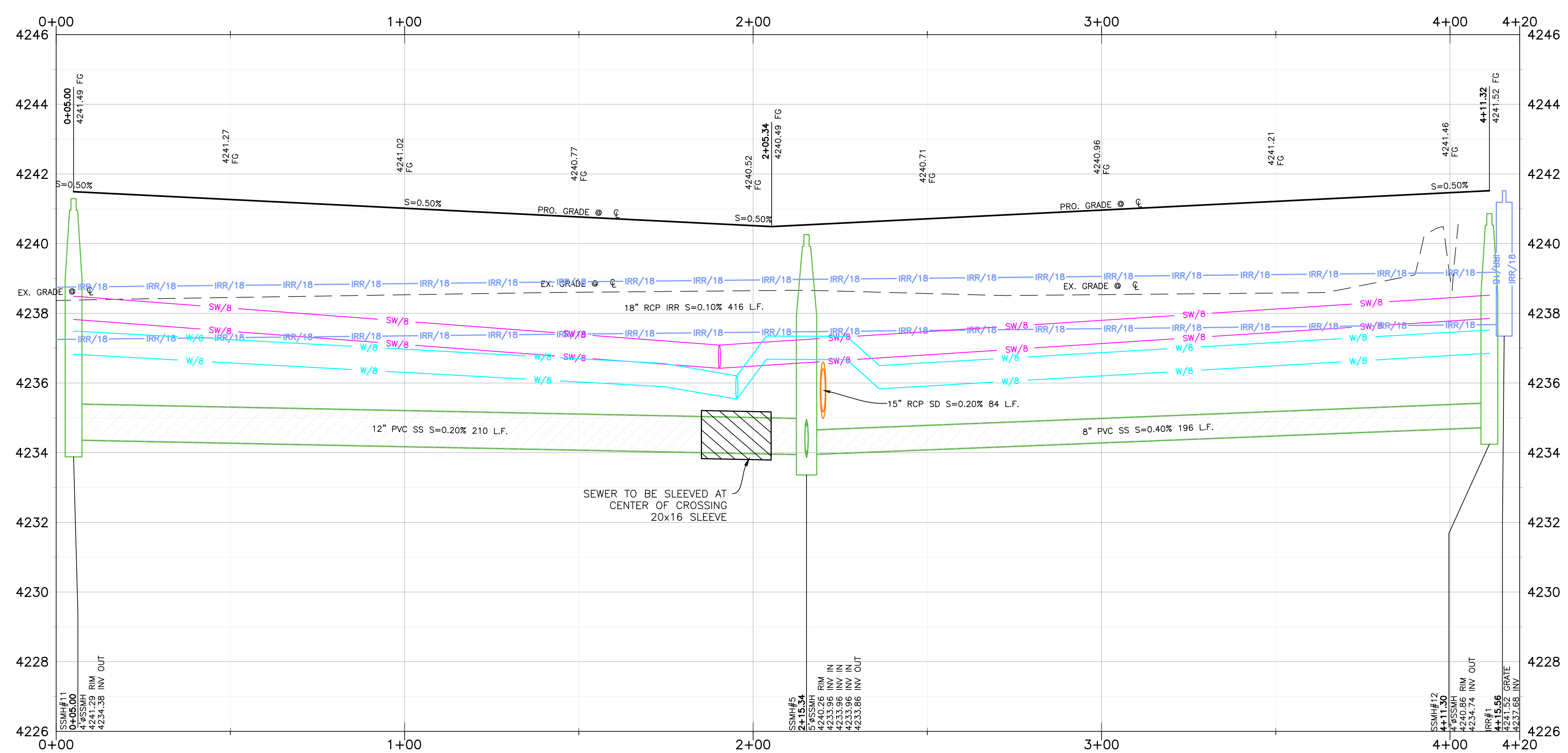
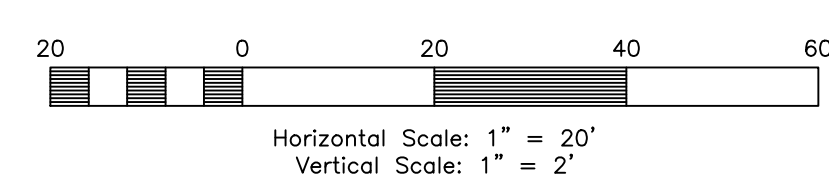
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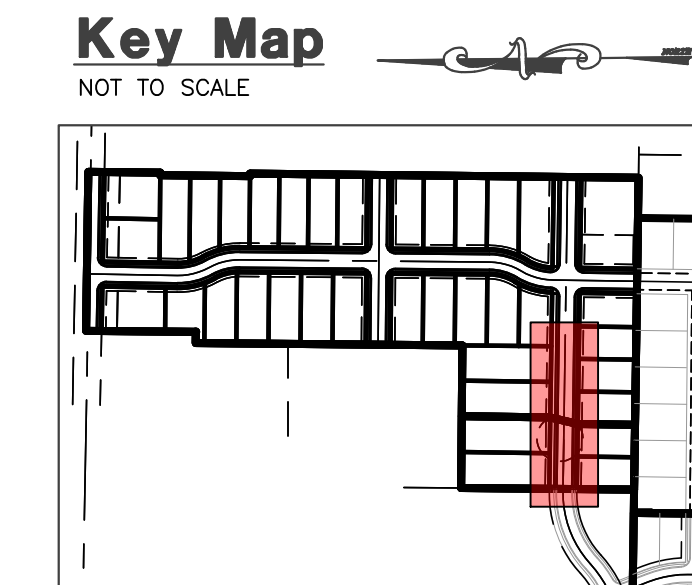


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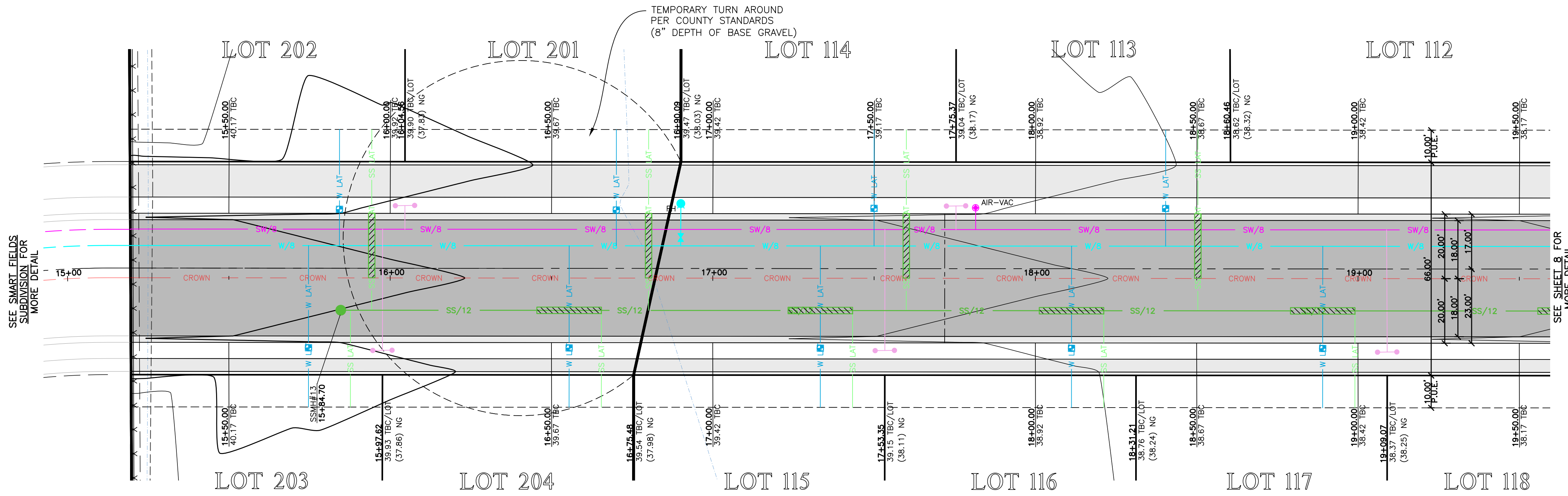
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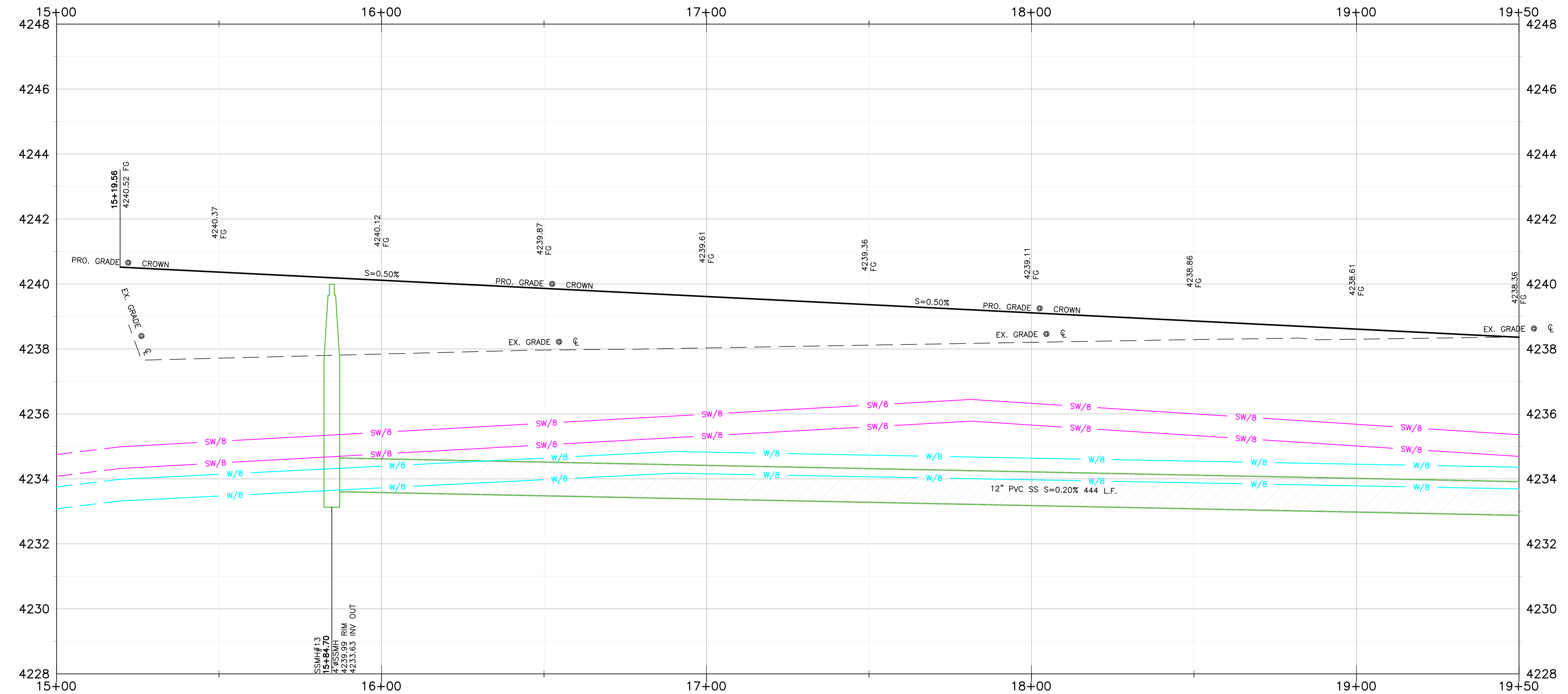
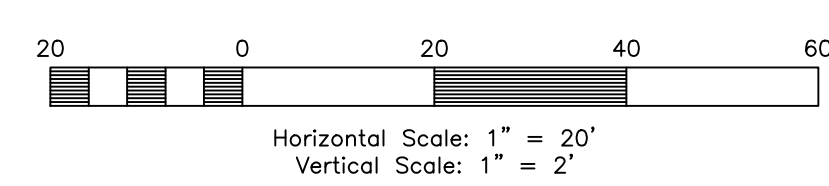
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**1600 South 15+00.00 - 19+50.00**



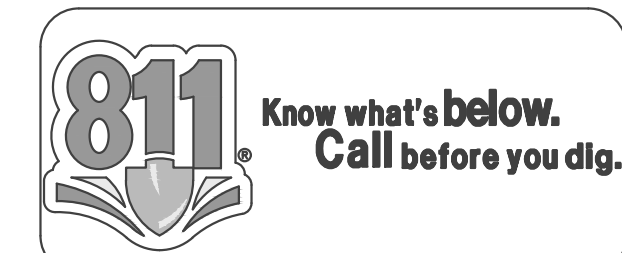
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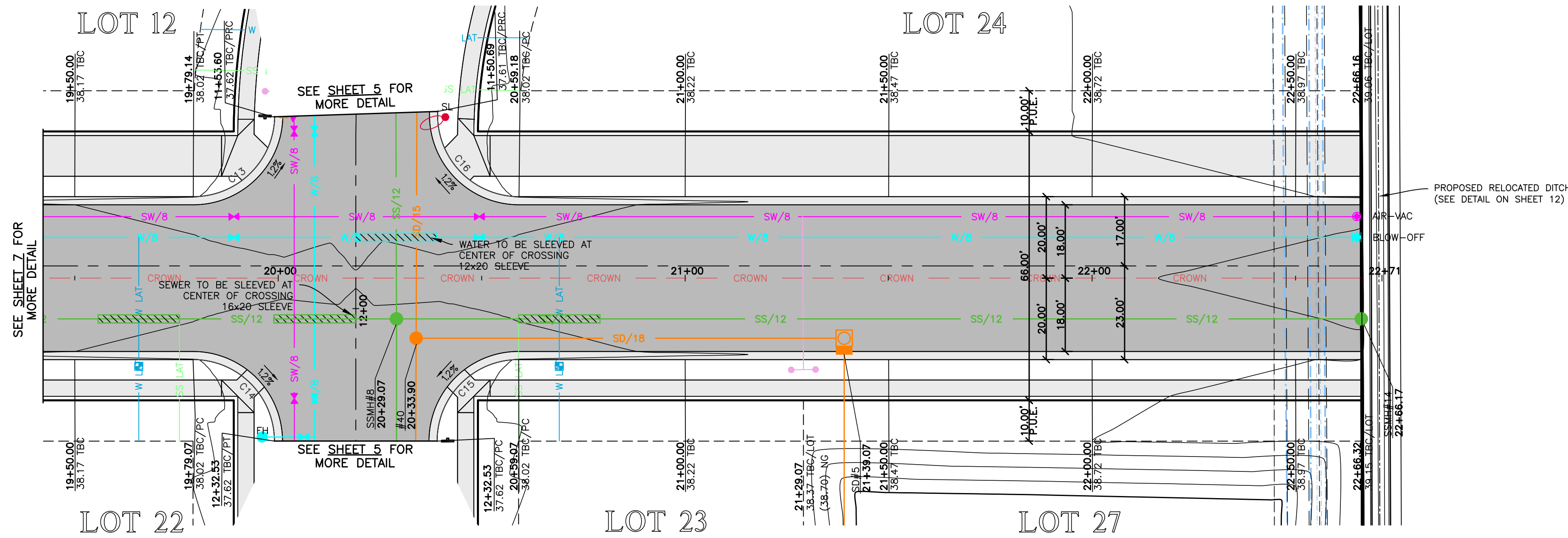
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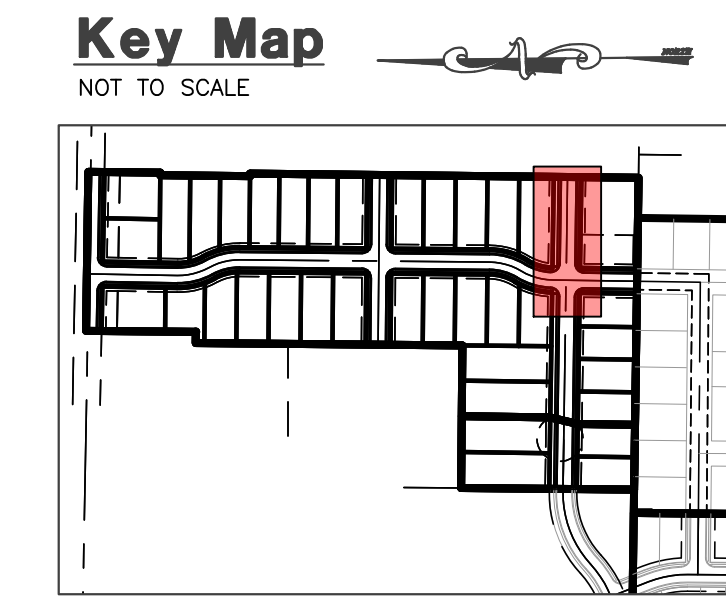
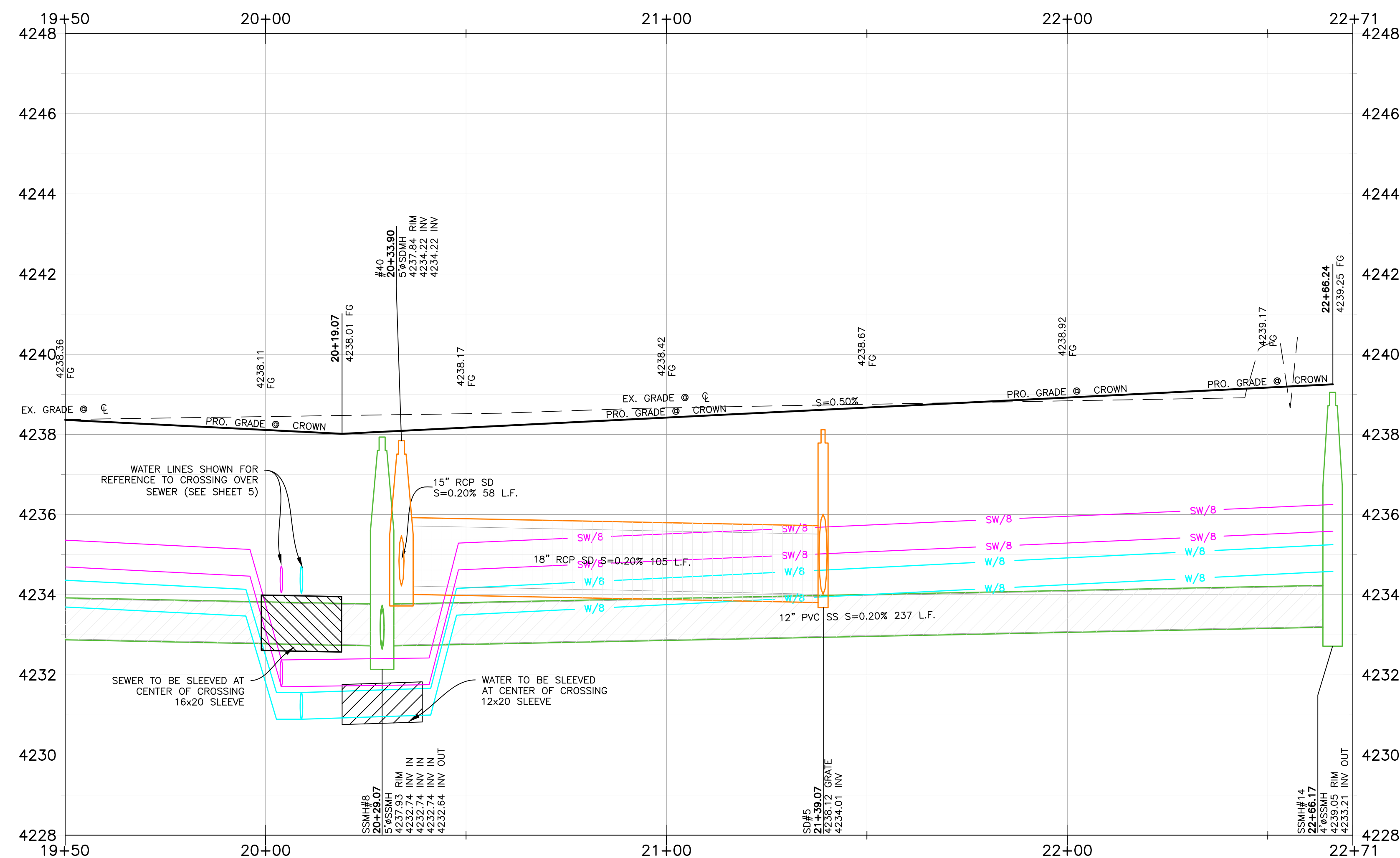
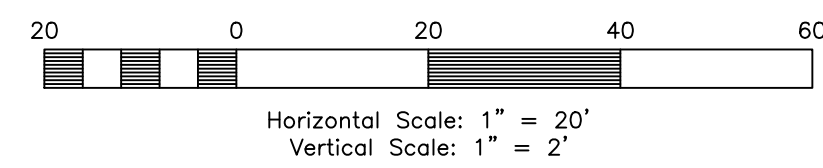
**Project Info.**

Engineer: J. NATE REEVE, P.E.  
 Drafter: N. FICKLIN  
 Begin Date: MAY, 2023  
 Name: ANSELMI ACRES SUBDIVISION  
 Number: 7152-19





1600 South 19+50.00 - 22+71.00



Construction Notes:

- CULINARY WATER**  
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REVISIONS	DATE	DESCRIPTION
08-01-23	08-07-23	City Comments
08-07-23	08-07-23	NF Irr. & Wtr. Comments

**Anselmi Acres Subdivision**  
 WEBER COUNTY, UTAH

**1600 South 19+50.00 - 22+71.00**

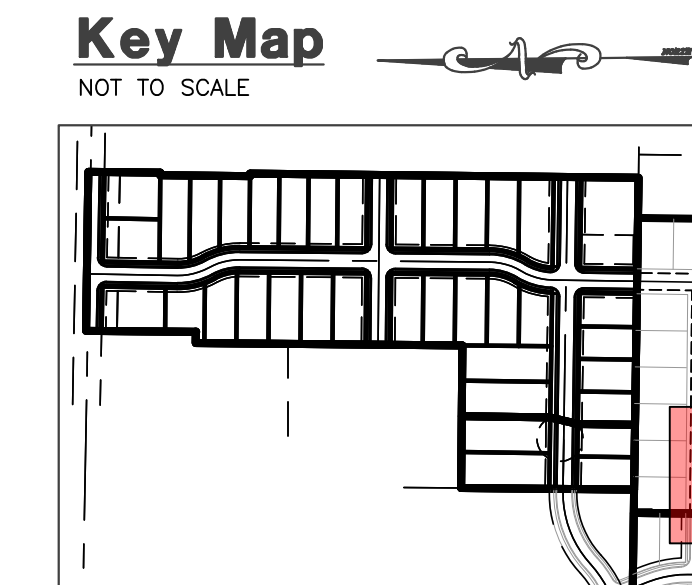


**Project Info.**

Engineer: J. NATE REEVE, P.E.  
 Drafter: N. FICKLIN  
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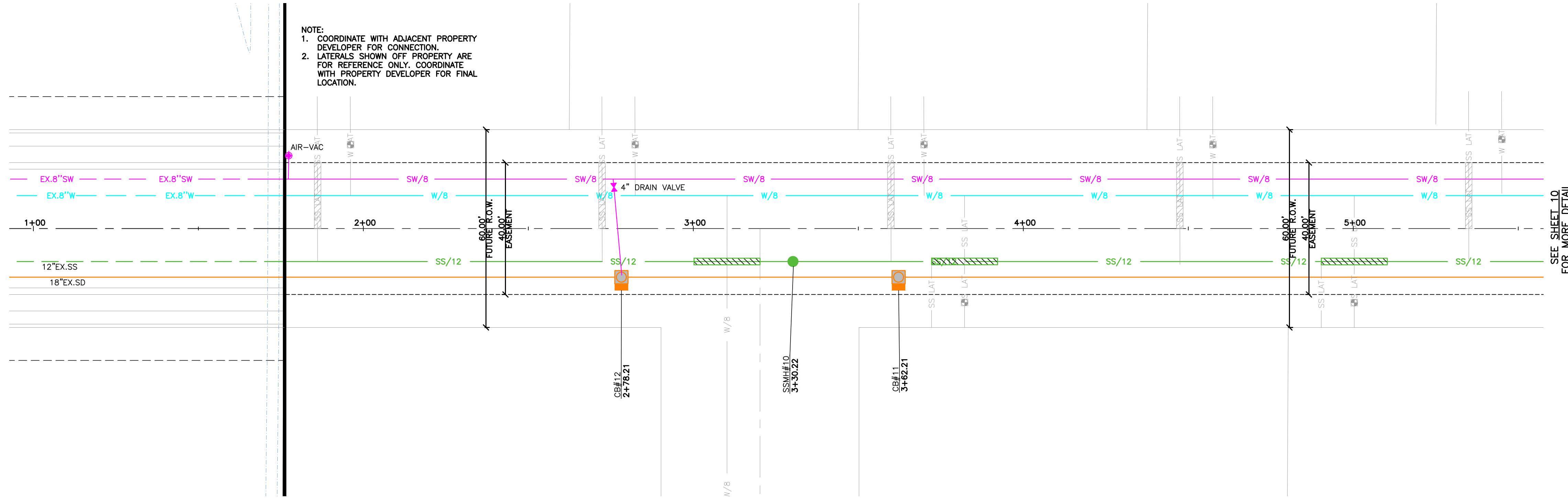
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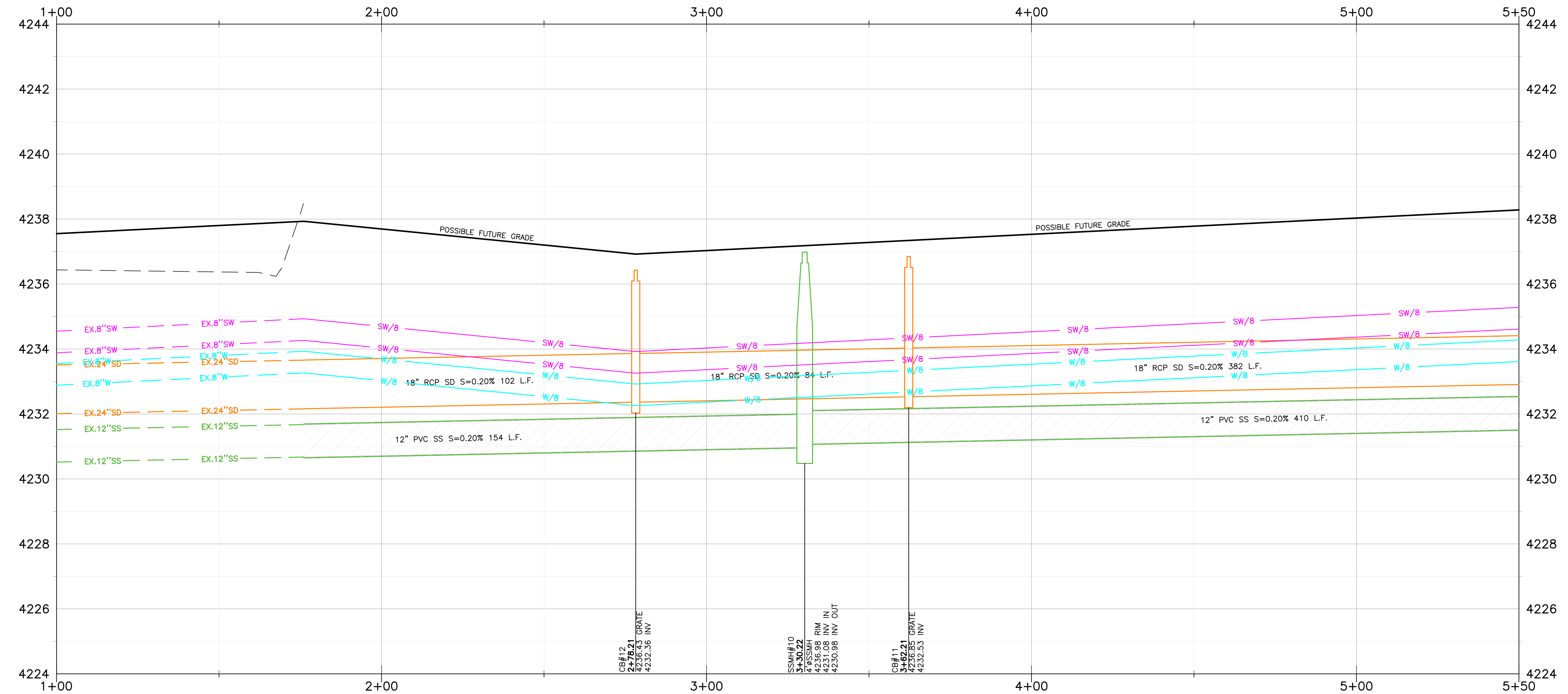
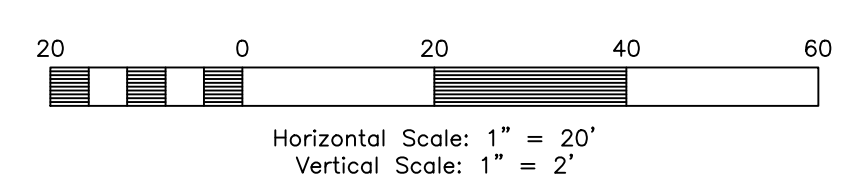
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 1. COORDINATE WITH ADJACENT PROPERTY DEVELOPER FOR CONNECTION.  
 2. LATERALS SHOWN OFF PROPERTY ARE FOR REFERENCE ONLY. COORDINATE WITH PROPERTY DEVELOPER FOR FINAL LOCATION.



**Outfall 1+00.00 - 5+50.00**



**Anselmi Acres Subdivision**  
 WEBER COUNTY, UTAH

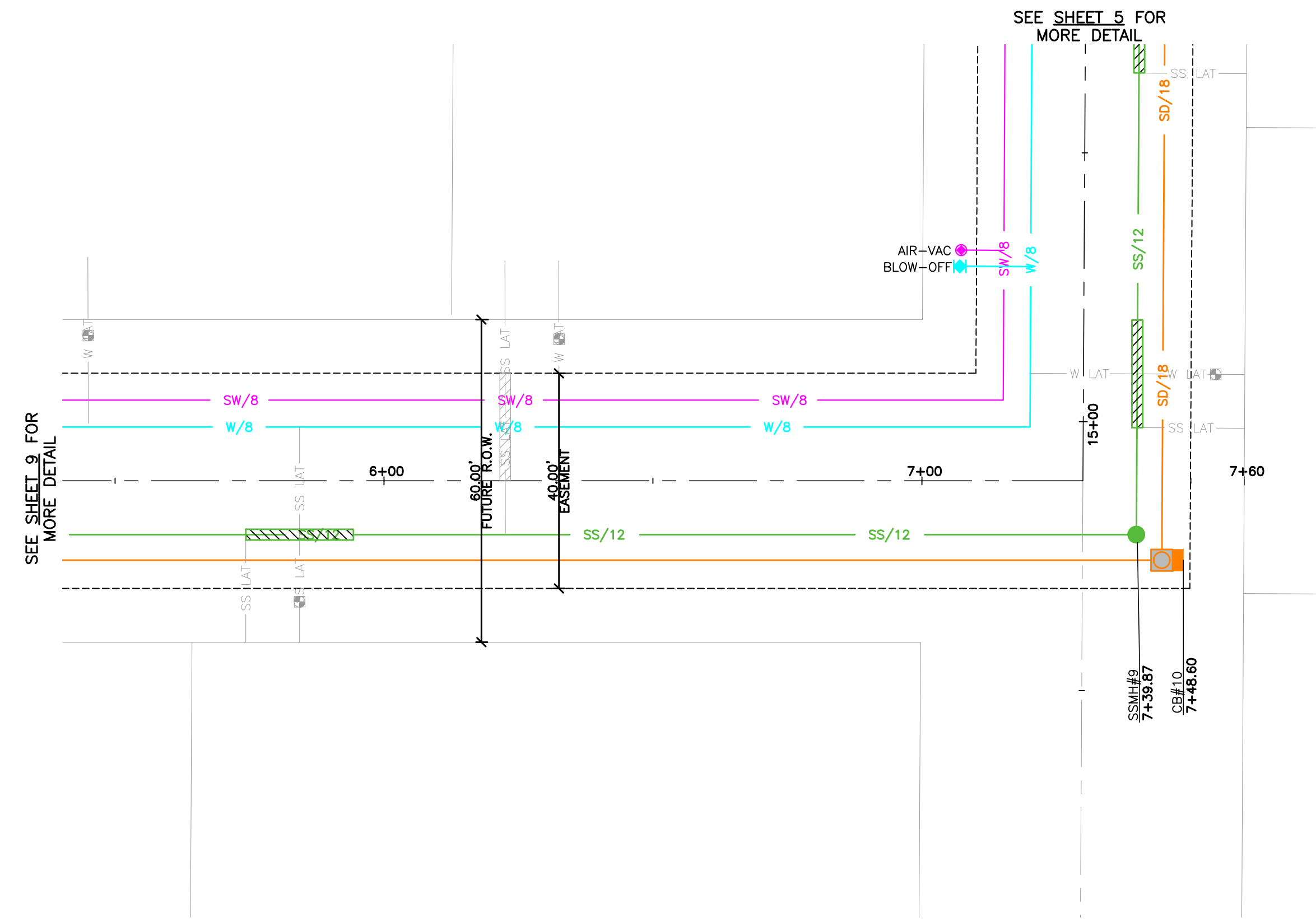
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**Project Info.**

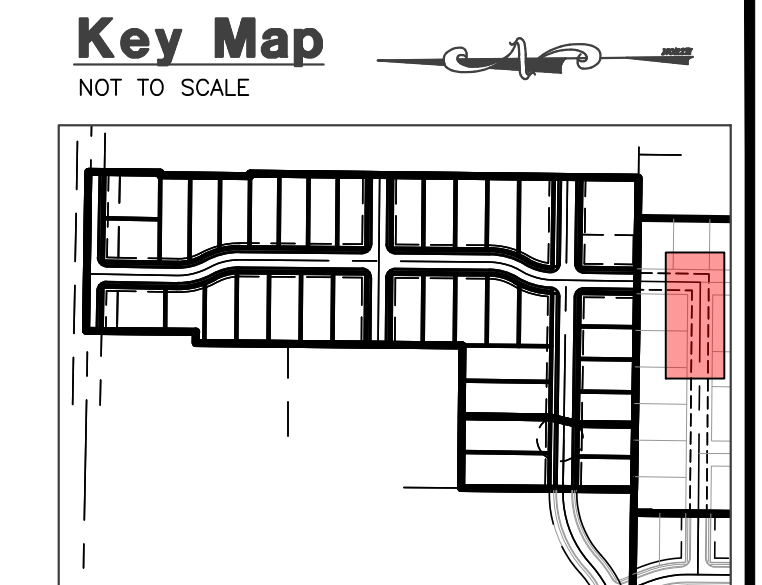
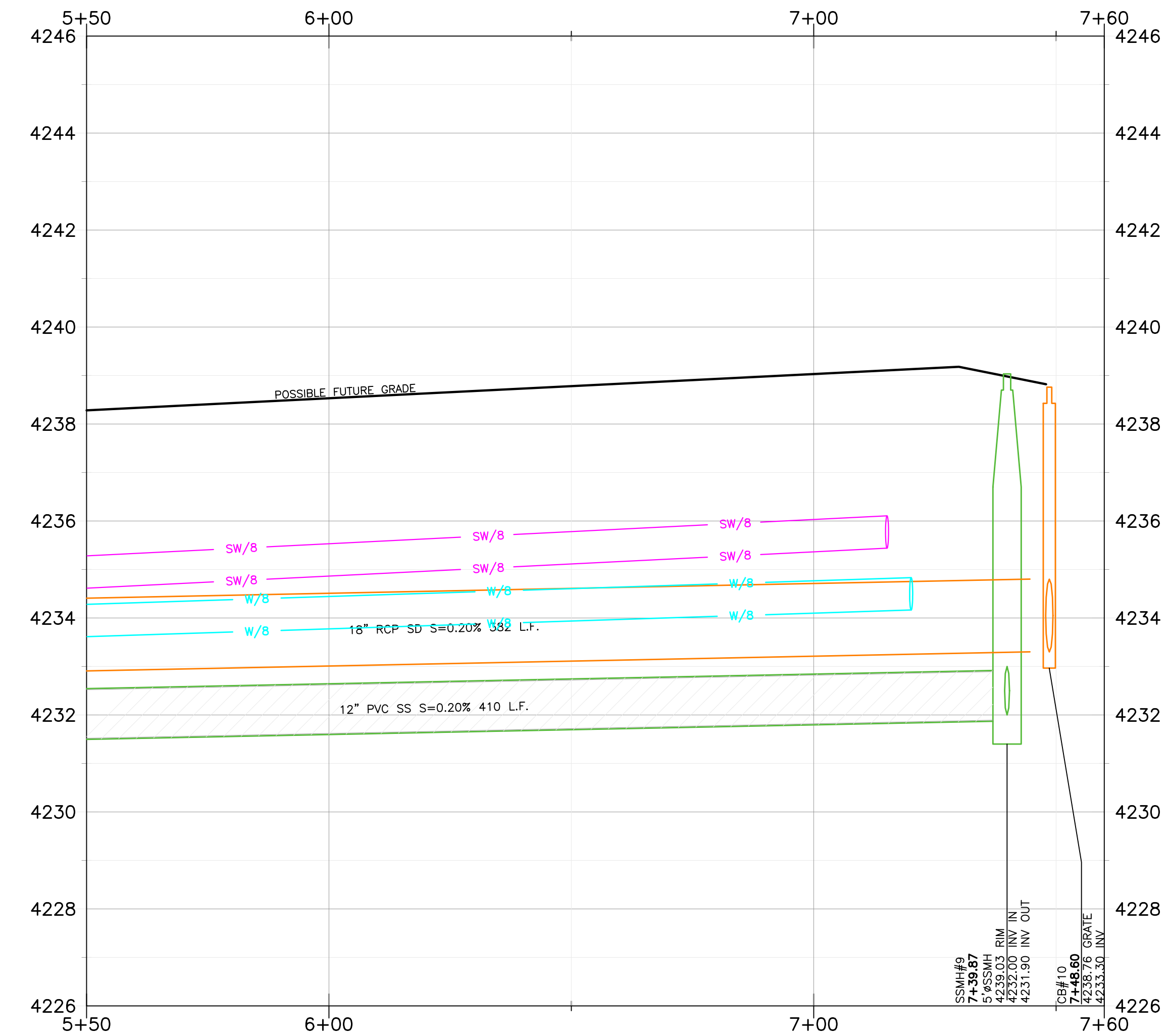
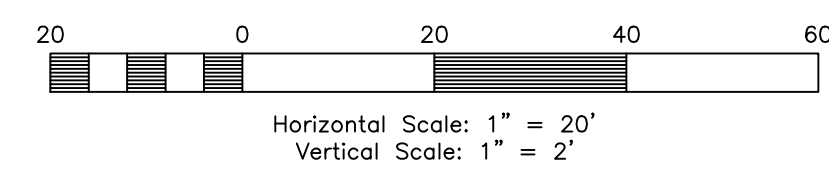
Engineer: J. NATE REEVE, P.E.  
 Drafter: N. FICKLIN  
 Begin Date: MAY, 2023  
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**Outfall 5+50.00 - 7+60.00**



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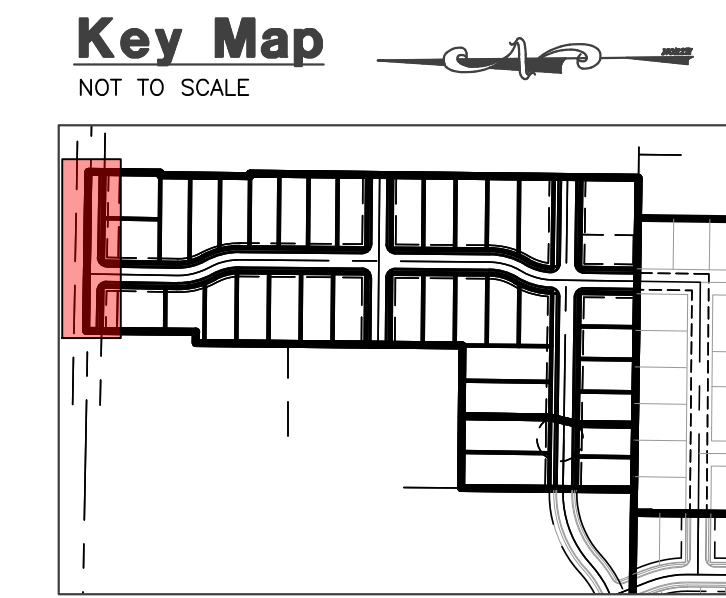
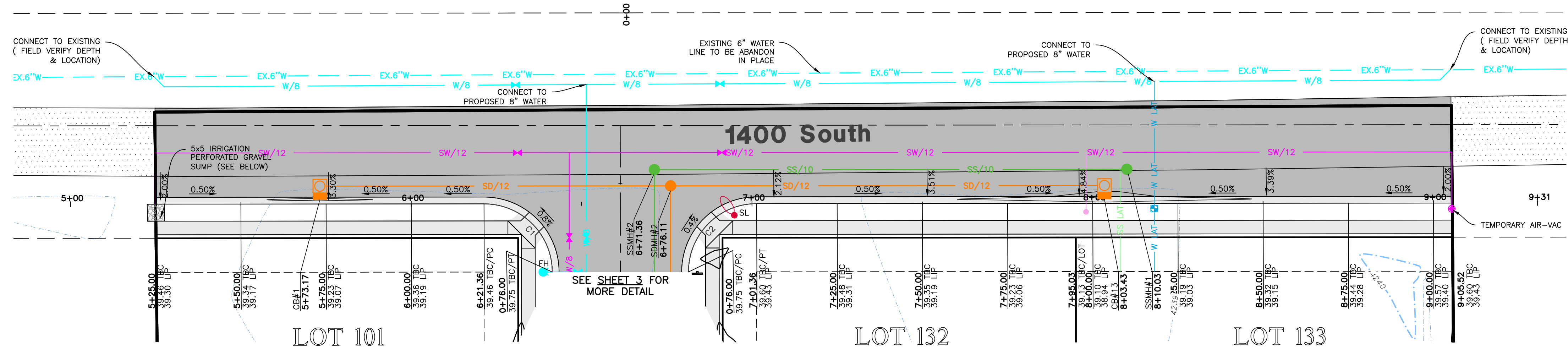
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**Anselmi Acres Subdivision**  
 WEBER COUNTY, UTAH  
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**Project Info.**  
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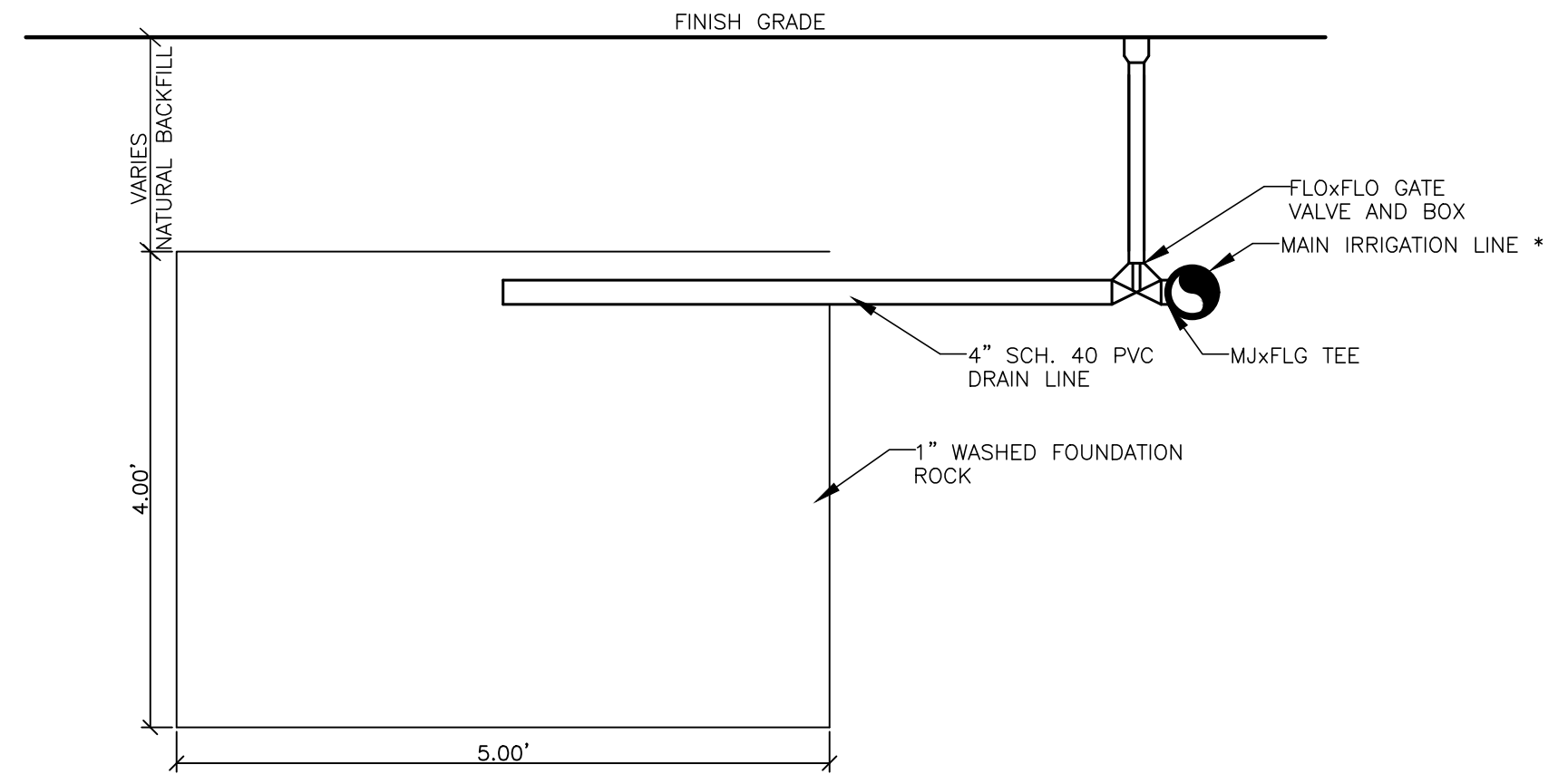
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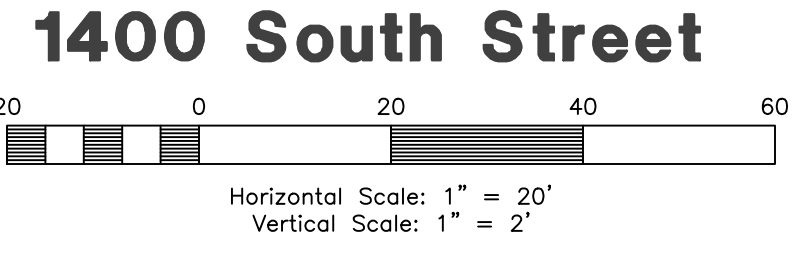
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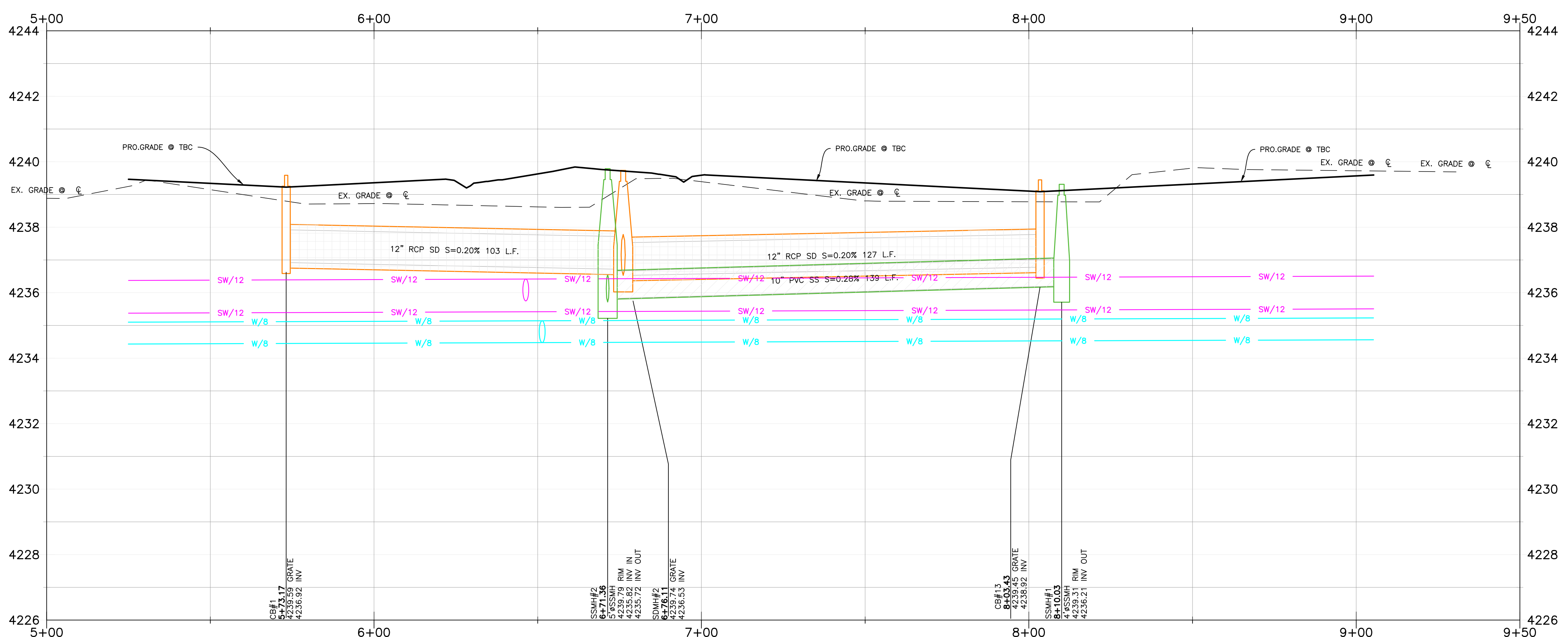


- 1400 SOUTH NOTES:**
- SAWCUT MIN. 2" INTO EXISTING ASPHALT INSIDE FROM OUTER EDGE FOR TACK SEAL OF NEW ASPHALT ON ROAD WIDENING.
  - CONTRACTOR TO VERIFY 2% MINIMUM-5% MAX SLOPE FROM EDGE OF ASPHALT TO LIP OF GUTTER.
  - SLOPE SHALL FLOW TOWARDS CURB & GUTTER UNLESS SPECIFIED DIFFERENT ON PLAN.
  - ASPHALT SEAL COAT FOR ASPHALT PRESERVATION TO BE COORDINATED WITH COUNTY.



**NOTES:**  
 \* REFER TO DRAWINGS FOR PIPE SIZES

**Local Drain w/ Sump**  
 SCALE: NONE



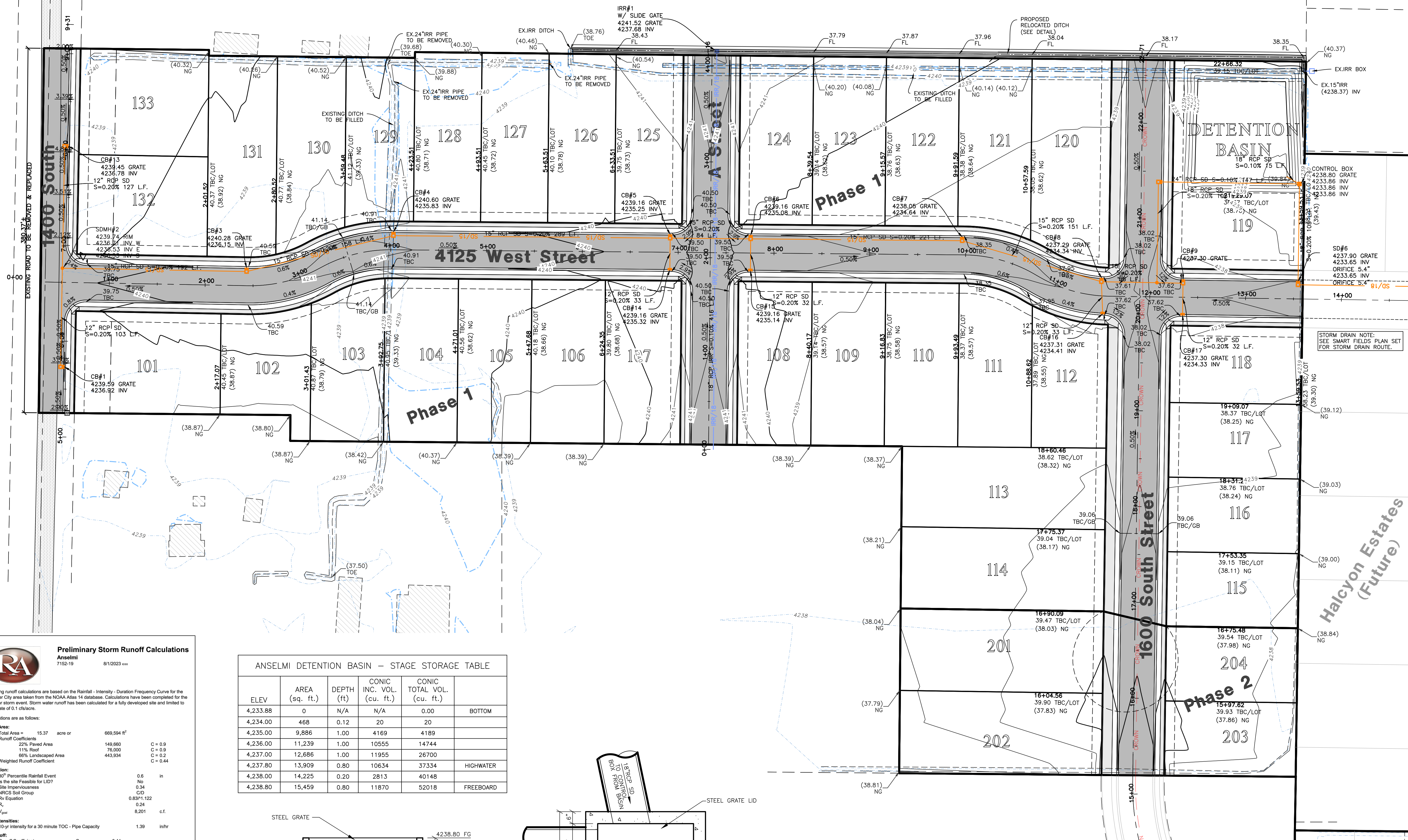
**Anselmi Acres Subdivision**  
 WEBER COUNTY, UTAH

**1400 South 5+00.00 - 9+50.00**



**Project Info.**

Engineer:	J. NATE REEVE, P.E.
Drafter:	N. FICKLIN
Begin Date:	MAY, 2023
Name:	ANSELMI ACRES SUBDIVISION
Number:	7152-19



**Preliminary Storm Runoff Calculations**  
Anselmi  
7/15/19 8/1/2023

The following runoff calculations are based on the Rainfall - Intensity - Duration Frequency Curve for the West Weber City area taken from the NOAA Atlas 14 database. Calculations have been completed for the 100-yr 24-hr storm event. Storm water runoff has been calculated for a fully developed site and limited to a release rate of 0.1 cfs/acre.

The calculations are as follows:

**Drainage Area:**  
Total Area = 15.37 acre or 669,594 ft<sup>2</sup>  
Runoff Coefficients:  
22% Paved Area 149,660 C = 0.9  
11% Roof 76,000 C = 0.9  
66% Landscaped Area 443,934 C = 0.2

**Weighted Runoff Coefficient**  
C = 0.44

**LID Retention:**  
80<sup>th</sup> Percentile Rainfall Event is the site Feasible for LID? 0.6 in  
Site Imperviousness No  
NRCS Soil Group C2 0.34  
Rv Equation 0.83P<sup>1.122</sup>  
Rv 0.24  
Y<sub>min</sub> 8.201 c.f.

**Rainfall Intensity:**  
10-yr Intensity for a 30 minute TOC - Pipe Capacity 1.39 in/hr

**Peak Run-off:**  
Runoff Coefficient C = 0.44  
Rainfall Intensity i = 1.39 in/hr  
Acreage A = 15.37 ACRES  
Q = 9.31 cfs

**Volume of Run-off for 100-year Storm Event:**  
C = 0.44  
I = See Below in/hr  
A = 669,594 sq ft  
Q(in) = 1.54 ft/s (0.1 cfs per acre)

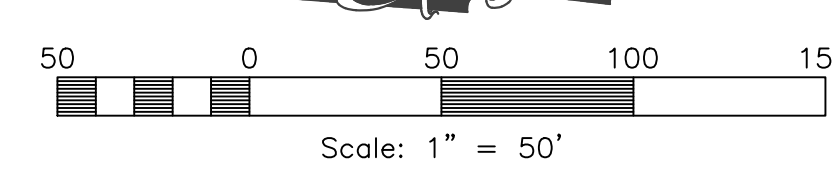
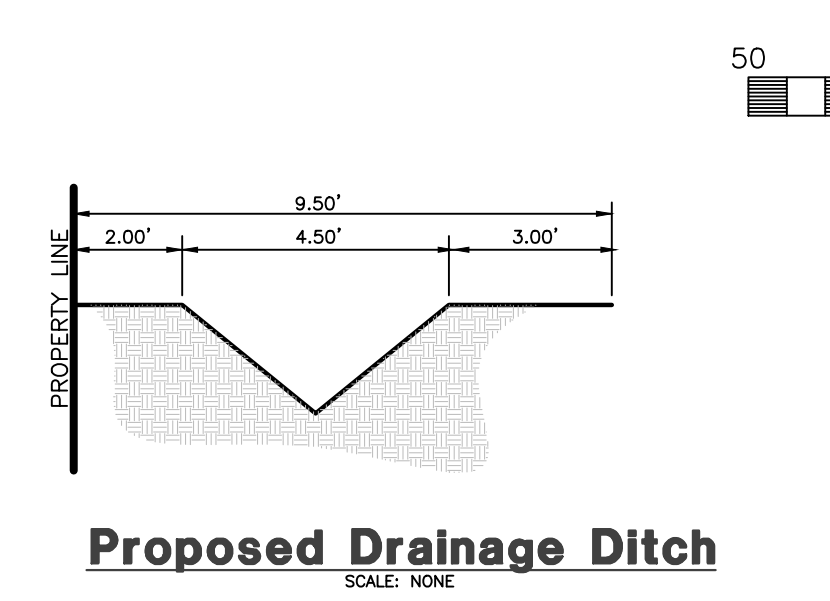
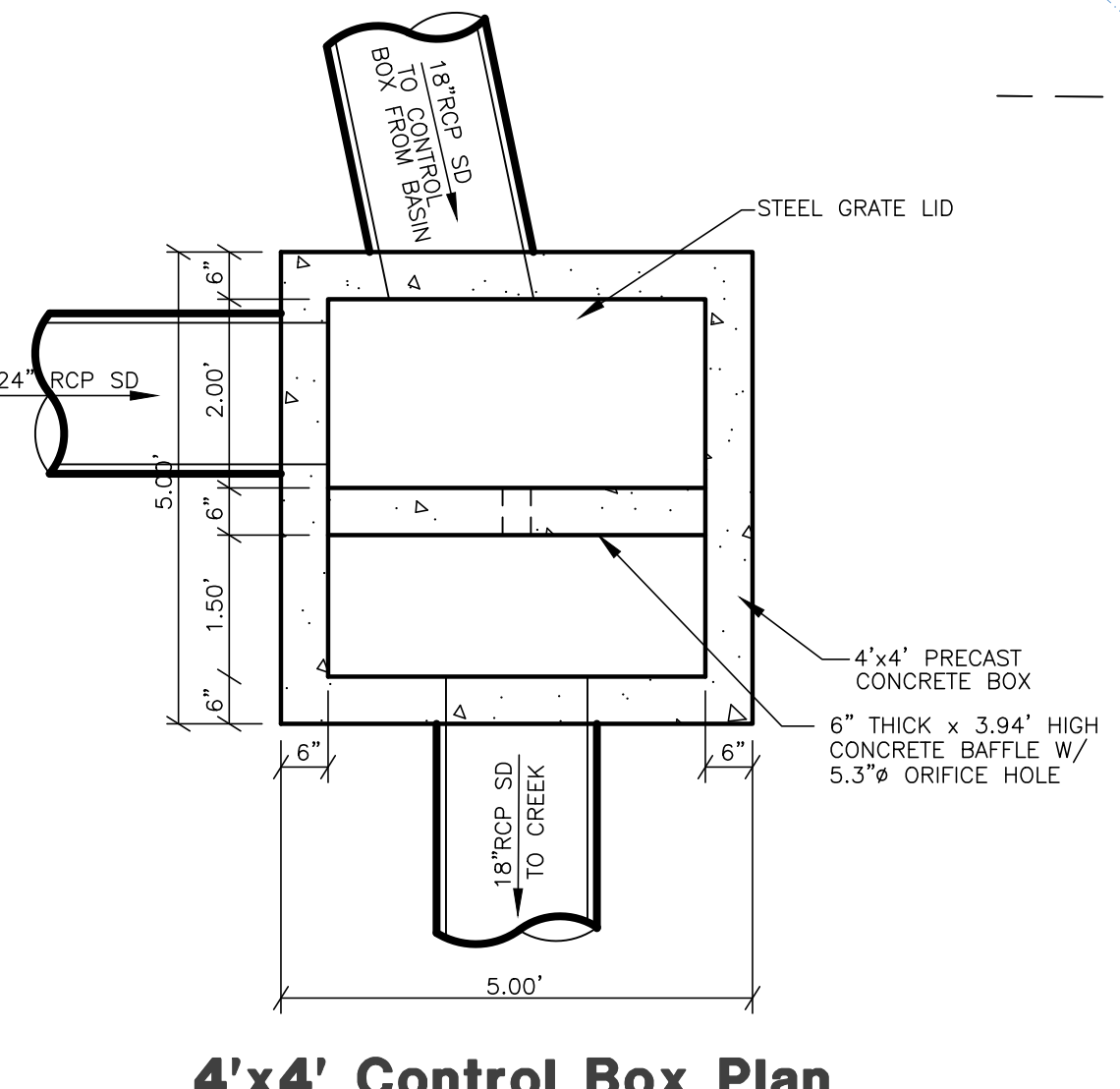
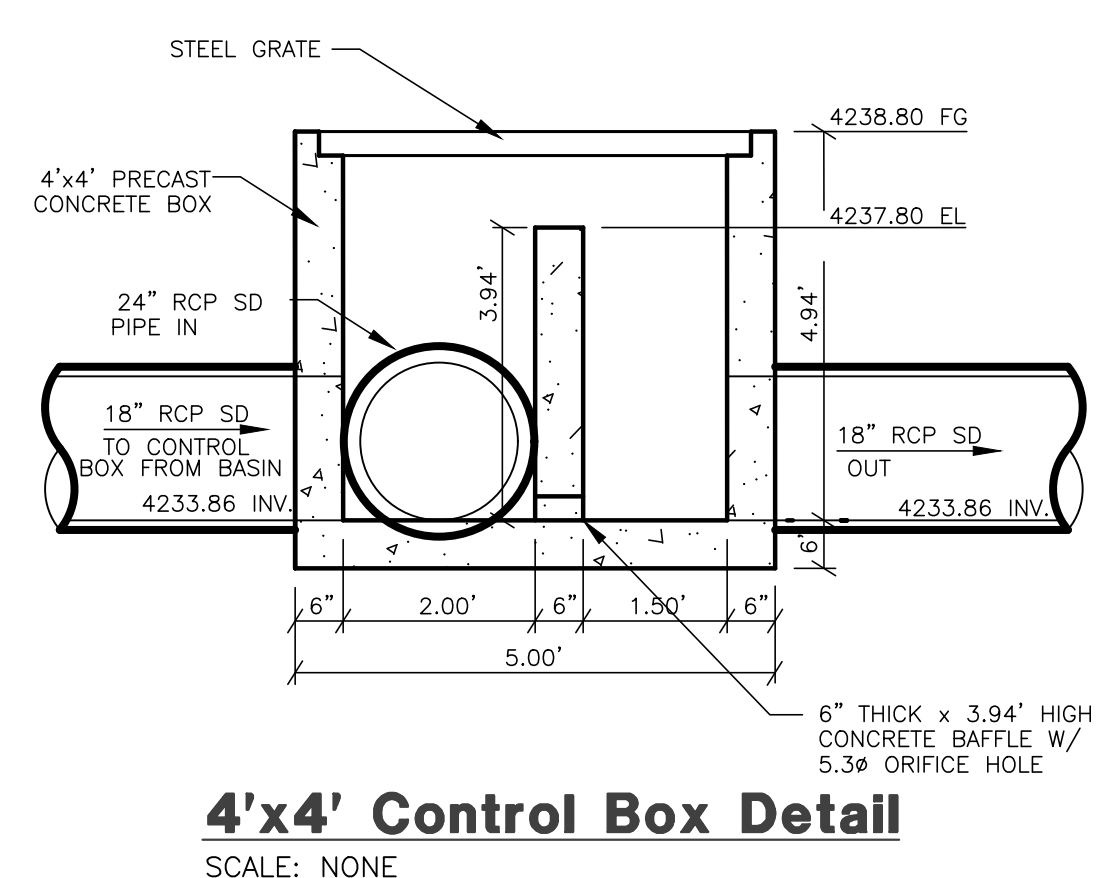
time (min)	I (in/hr)	Q (cfs)	Vol. in (cu ft)	Vol. out (cu ft)	Difference (cu ft)
0	0.00	0.00	0	0	0
5	3.00	6.59	44.53	13358	461
10	6.00	5.00	33.78	20270	19347
15	9.00	4.14	27.97	25175	1383
30	18.00	2.79	18.85	33931	31164
60	36.00	1.72	11.62	41936	30324
120	72.00	0.94	6.38	49923	34855
180	108.00	0.64	4.34	48917	30245
360	216.00	0.36	2.42	52247	19044
720	432.00	0.22	1.49	64214	66406
1440	864.00	0.12	0.84	72386	150912

**Office Sizing:**  
Given: Q = 1.54 cfs  
Zp = 64.4 in  
H = 3.94 ft  
Cd = 0.62  
R = SQRT((Q\*1.4848)/(H\*1.4848))  
R = 0.22 feet  
D = 2.67 inches  
A = 5.34 inches<sup>2</sup>  
0.1557 ft<sup>2</sup>

**SUMMARY:**  
The required 100-yr storage volume is 36,302 cubic feet  
The required LID Retention volume is Not Feasible cubic feet  
Orifice size is 5.3 inches

**ANSELMI DETENTION BASIN - STAGE STORAGE TABLE**

ELEV.	AREA (sq. ft.)	DEPTH (ft)	CONIC INC. VOL. (cu. ft.)	CONIC TOTAL VOL. (cu. ft.)	
4,233.88	0	N/A	N/A	0.00	BOTTOM
4,234.00	468	0.12	20	20	
4,235.00	9,886	1.00	4169	4189	
4,236.00	11,239	1.00	10555	14744	
4,237.00	12,686	1.00	11955	26700	
4,237.80	13,909	0.80	10634	37334	HIGHWATER
4,238.00	14,225	0.20	2813	40148	
4,238.80	15,459	0.80	11870	52018	FREEBOARD



**Notice:**  
THESE PLANS WERE CREATED UTILIZING COLORS FOR UTILITIES & OTHER INFRASTRUCTURE. IF PRINTED IN, OR COPIED TO BLACK & WHITE, SOME LINE WORK MAY NOT SHOW UP PROPERLY.

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**RA**

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**REVISIONS**

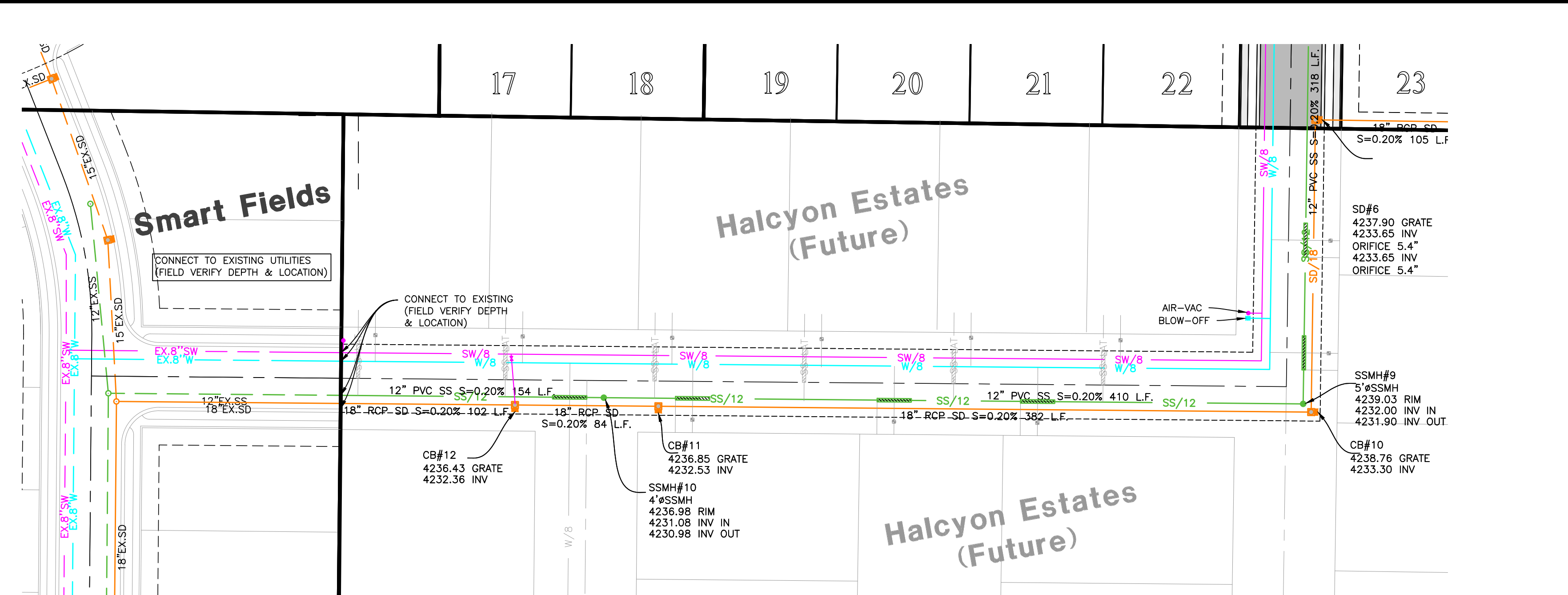
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**Anselmi Acres Subdivision**  
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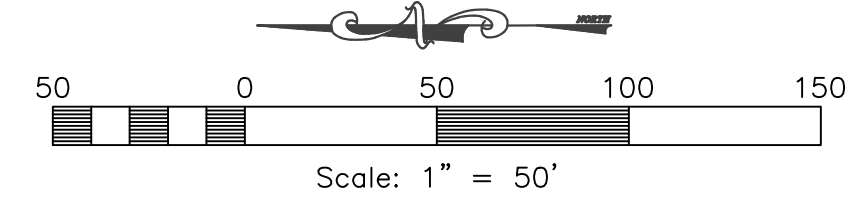
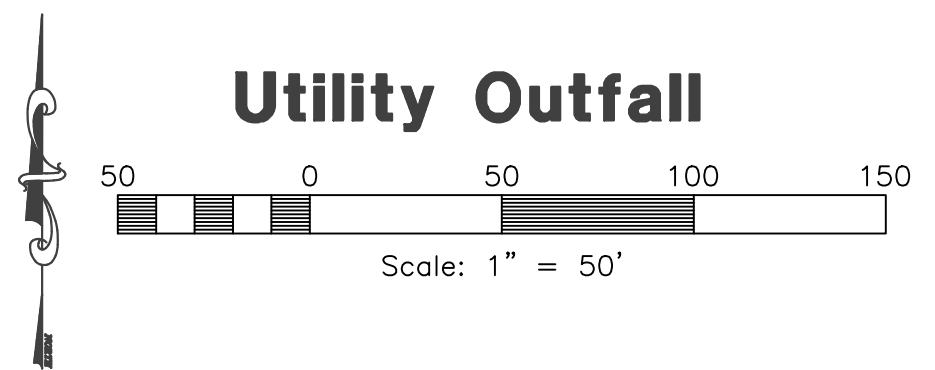
**Grading Plan**

**REGISTERED PROFESSIONAL ENGINEER**  
J. NATE REEVE  
375328  
08/07/2023  
STATE OF UTAH

**Project Info.**  
Engineer: J. NATE REEVE, P.E.  
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Begin Date: MAY, 2023  
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STORM DRAIN NOTE:  
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REVISIONS	DATE	DESCRIPTION
08-01-23	08-01-23	08-01-23 NF City Comments
08-07-23	08-07-23	08-07-23 NF Irr. & Wtr. Comments

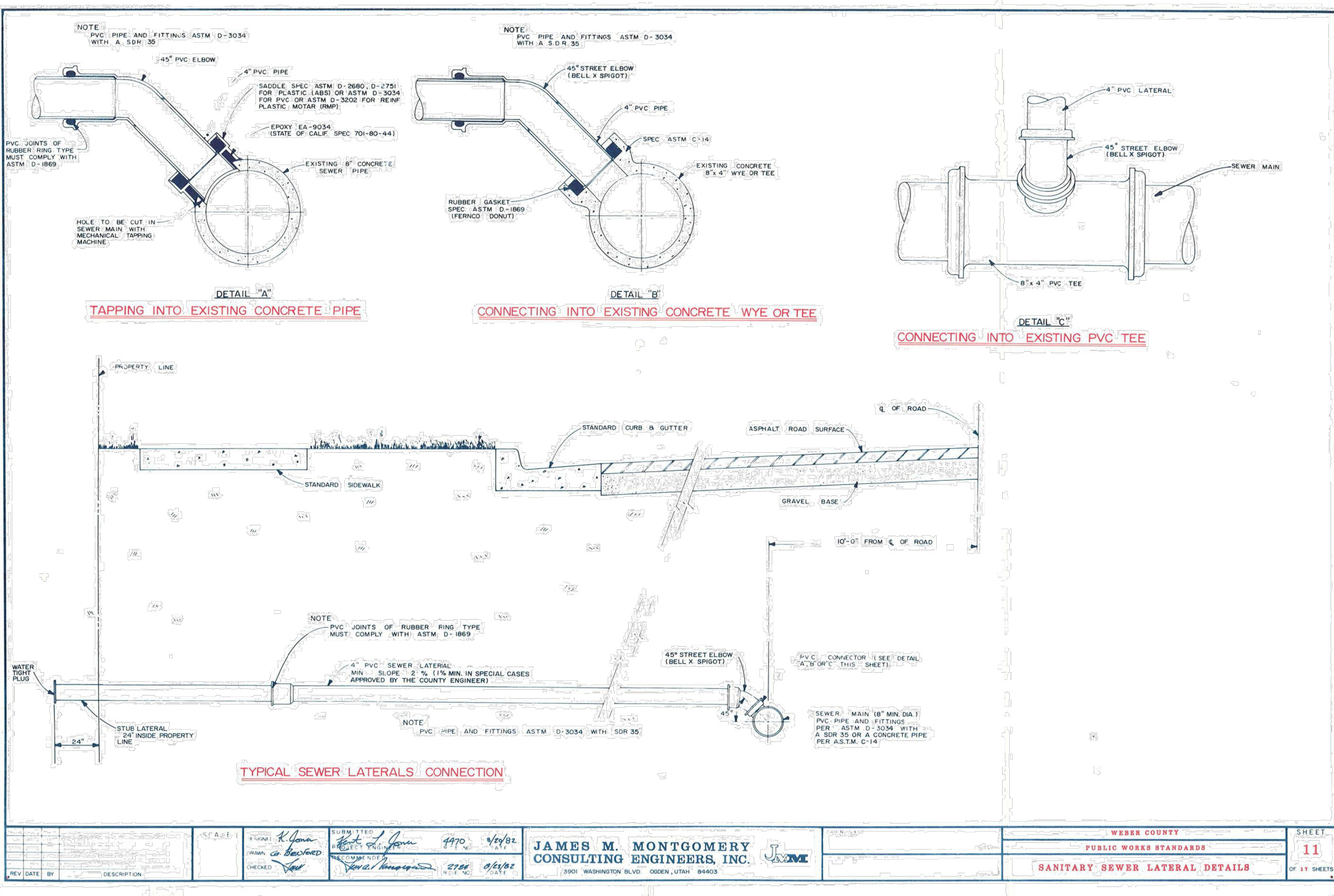
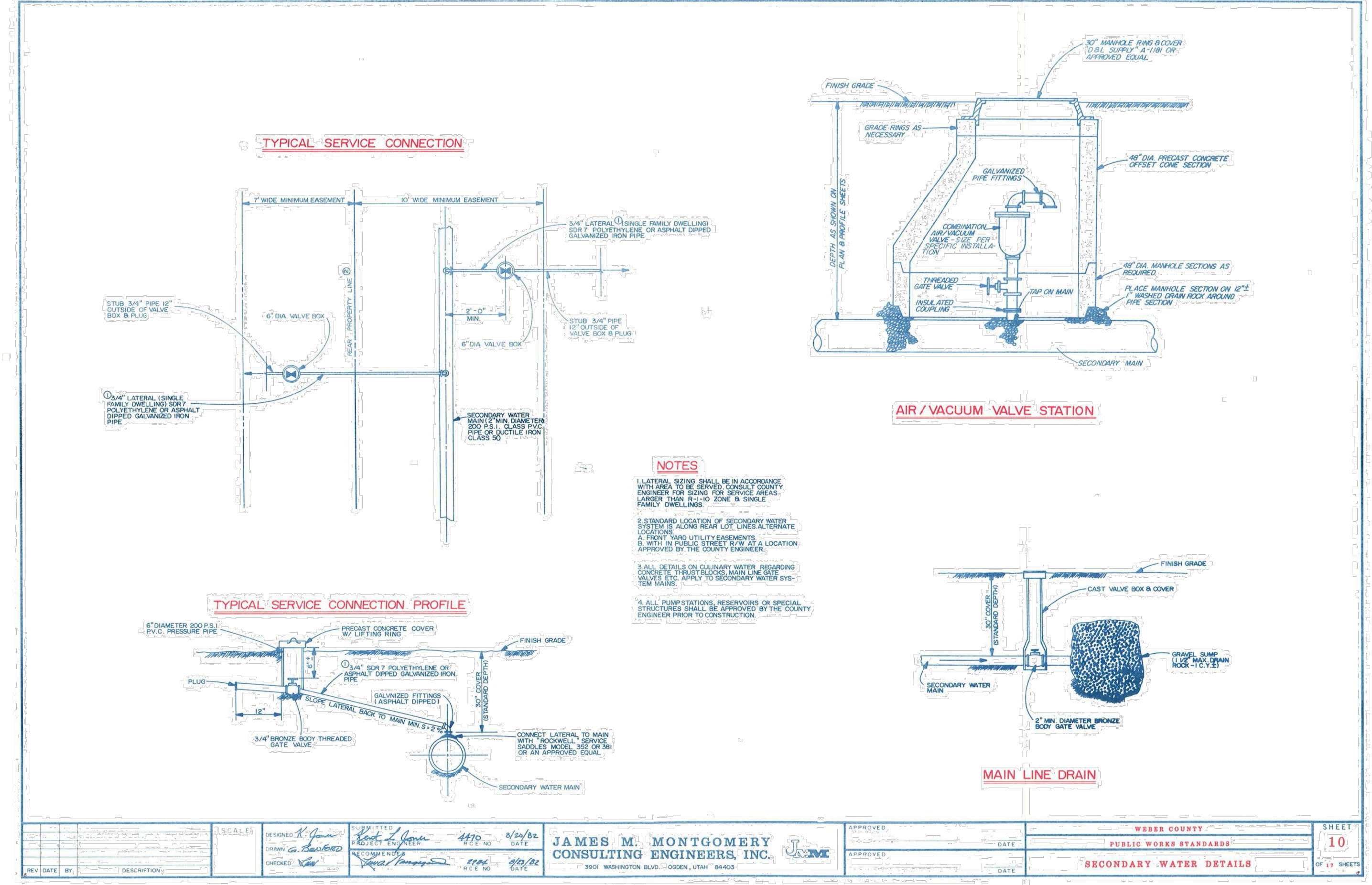
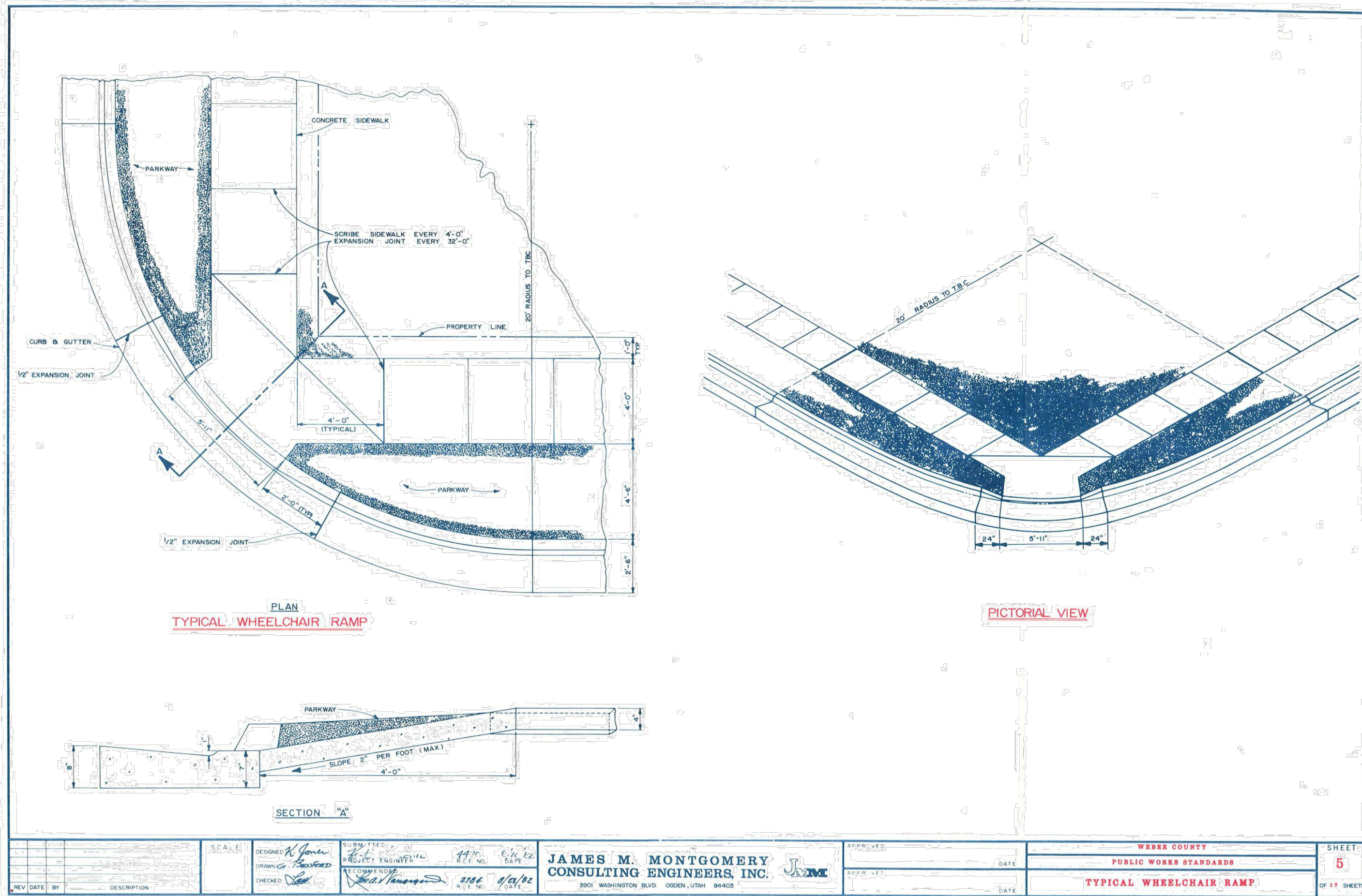
**Anselmi Acres Subdivision**  
WEBER COUNTY, UTAH

**Utility Plan**



**Project Info.**

Engineer:	J. NATE REEVE, P.E.
Drafter:	N. FICKLIN
Begin Date:	MAY, 2023
Name:	ANSELMI ACRES SUBDIVISION
Number:	7152-19



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REVISIONS	DATE	DESCRIPTION
08-01-23	08-07-23	08-07-23

**Anselmi Acres Subdivision**  
 WEBER COUNTY, UTAH

**Standard Details**



**Project Info.**

Engineer: J. NATE REEVE, P.E.  
 Drafter: N. FICKLIN  
 Begin Date: MAY, 2023  
 Name: ANSELMI ACRES SUBDIVISION  
 Number: 7152-19

**WATER LATERAL OVER SEWER MAIN**  
**WATER MAIN OVER SEWER LATERAL**  
**WATER LATERAL UNDER SEWER MAIN**  
**WATER MAIN UNDER SEWER LATERAL**

18" IN LENGTH STEEL, DUCTILE IRON OR SDR-35 HDPE CASING DIAMETER AS NEEDED (CENTERED AT POINT OF CROSSING)

ENDSEAL ON END OF 18" CASING (TYP.)

WATER LATERAL ABOVE OR BELOW SEWER

CASING SPACERS (TYP.)

CENTER FULL STACK OF PIPE AT POINT OF CROSSING (TYP.)

**8 SEWER/WATER VERTICAL SEPARATION EXCEPTION DETAIL** NTS

DRAFTED: MOD. DEVIATIONS FROM STANDARDS MUST BE APPROVED DESIGNED: CBY BY TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT (TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT) CHECKED: JRE (DISTRICT UTAN-DOW APPROVAL, R030) REV. 1 - 11/21/21 ADDED SEWER/WATER CROSSING REV. 2 - 1/22/22 REVISED CASING TO ALWAYS BE ON SEWER LINE REV. 3 - REV. 4 -

STANDARD WATER DETAILS TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT SEWER/WATER CROSSING SHEET 6

**GARDNER ENGINEERING** CIVIL & LAND SURVEYING 1000 S. 1000 W. TAYLOR WEST WEBER, UTAH 84405 (801) 476-2000 (F) 801 476-0000

ALL TIMERS FOR BLOCKING IS TO BE REDWOOD

10" ANCHORS AROUND GATE VALVES TO THRUST BLOCK

THRUST BLOCKS REQUIRED AT ALL BENDS AND 11' ON WORK

CONCRETE SHALL NOT BE PLACED AROUND JOINTS AND BOLTS. COVER ALL METAL CONTACT AREAS WITH AN EMULSION POLYMER TO CONCRETE PLACEMENT

IN THE ABSENCE OF A SOIL REPORT, ALL THRUST BLOCKS SHALL BE SIZED ON THE BASIS OF A MAXIMUM LATERAL BEARING VALUE OF 300 P.S.I. AND A THRU PRESSURE RESULTING FROM 150% OF THE WATER LINE STATIC PRESSURE

ALL VALVES, TEES, CROSSES AND BENDS SHALL ALSO BE FITTED WITH MECHANICAL RESTRAINTS, SUCH AS MEGA LUGS OR ROMA GRIP WITH FLUOROPOLYMER COATED BOLTS AND NUTS

AREAS GIVEN IN TABLE ARE BASED UPON AN INTERNAL STATIC PRESSURE OF 100 P.S.I. AND A SOIL BEARING CAPACITY OF 100 LBS PER SQ. FT. BEARING AREAS FOR ANY PRESSURE AND SOIL BEARING CAPACITY MAY BE OBTAINED BY MULTIPLYING THE TABULATED VALUES BY A CORRECTION FACTOR "F"

F = ACTUAL SPECIFIED TEST PRESSURE IN HUNDREDS OF LBS/SQ. IN. / ACTUAL SOIL BEARING CAPACITY IN THOUSANDS OF LBS

EXAMPLE: TO FIND BEARING AREA FOR 8" 90° BEND WITH A STATIC INTERNAL PRESSURE OF 150 P.S.I. AND WITH A SOIL BEARING CAPACITY OF 3000 LBS. PER SQ. FT.

F = 1.5 / 30.0 = 0.05

100.0 x 0.05 = 5.0 SQ. FT. (OR 3 FT. LONG BY 2 FT. HIGH)

**1 THRUST BLOCK DETAIL** APPLIES TO ALL PRESSURE PIPE NTS

ADJUST WATER VALVE BOX TO GRADE FOLLOWING FINAL SURFACE PREP. W/CONCRETE COLLAR. COLLAR TO BE HELD DOWN 1/4" BELOW TOP OF NEW ASPHALT IF IN ROADWAY

2" MIN. VALVE BOX

12" MIN. COIL TRACER LINE IN VALVE BOXES (RUN OUTSIDE BOTTOM OF VALVE BOX, BRING INSIDE RISER)

RESILIENT SEAT GATE VALVE OR BUTTERFLY VALVE, 200# OR 300# OR 400# STAINLESS STEEL NUTS AND BOLTS (HEAD ON VALVE, STAINLESS) OR COATED CONNECTION HARDWARE TO PIPE REDWOOD

NOTE: VALVE BOX RISER AND LID MUST COME FROM THE SAME PIPE. BE REVIEWED FOR USE AND SHALL BE WITHIN PUBLISHED DIMENSION TOLERANCES

IF LOCATED IN ROADWAY W/ SPEED LIMIT OF 40 MPH OR GREATER, LID SHALL BE HEAVY AND EXTRA DEEP

FLOWABLE FILL MAY BE REQUIRED BY UDOT PERMIT

**2 TYPICAL VALVE DETAIL** NTS

DRAFTED: MOD. DEVIATIONS FROM STANDARDS MUST BE APPROVED DESIGNED: CBY BY TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT (TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT) CHECKED: JRE (DISTRICT UTAN-DOW APPROVAL, R030) REV. 1 - 8/21/21 S.S. PARADISE RECD. REV. 2 - REV. 3 - REV. 4 -

STANDARD WATER DETAILS TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT THRUST BLOCK DETAIL TYPICAL VALVE DETAIL SHEET 1

**GARDNER ENGINEERING** CIVIL & LAND SURVEYING 1000 S. 1000 W. TAYLOR WEST WEBER, UTAH 84405 (801) 476-2000 (F) 801 476-0000

NOTE: CONTRACTOR IS RESPONSIBLE TO MEET TRENCH RESTORATION STANDARDS OF THE ENTITY OWNING THE ROADWAY. RESTORE THE ROADWAY TO SAID STANDARDS AND SHALL BE SOLELY RESPONSIBLE FOR ALL ROADWAY PERMITS AND/OR FEES. \*STANDARDS AS OF 1/2018

IF ROADBASE OR MATCH EXISTING LANDSCAPING SURFACE IMPROVEMENTS

SHOULDER / SOD / CONCRETE UNIMPROVED SURFACE

ASPHALT T-PATCH

SAW CUT W/ BLADE BEFORE REMOVAL, CLEAN & TUCK

COMPACTED BACKFILL 24" OVER PIPE COMPACT TO 90% AASHTO T-180

TRACER WIRE #14 GAUGE PLASTIC COATED COPPER TAPED TO TOP OF PIPE

BEEDING MATERIAL TO 90% AASHTO T-180

PIPE FOUNDATION MATERIAL COMPACT TO 90% AASHTO T-180

IN UNSTABLE GROUND AREAS

MIN. #10 PVC MAIN LINE POTABLE WATER PIPE SHALL BE BLUE. NO OTHER BURIED UTILITIES SHALL BE BLUE

NOTE: CONTRACTOR SHALL OBTAIN UDOT PERMIT PRIOR COMMENCING WORK

CHIP SEAL TYPE 1 WITH EMULSION LAGERS PER UDOT STD. SPEC 0276

ESTIMATED APPLICATION RATE OF 0.45 GAL/SY IS REQUIRED FOR THIS ROADWAY ON AT LEAST ALL NEW PAVEMENT PLACED WITHIN THE UDOT RIGHT-OF-WAY

ALL CONSTRUCTION WITHIN THE UDOT RIGHT-OF-WAY SHALL CONFORM TO THE MOST CURRENT UDOT STANDARD DRAWINGS AND SPECIFICATIONS, FOUND AT UDOT.UTAH.GOV/UDOT/STANDARD

RESTORE ALL LANDSCAPING AND SHOULDERING TO UDOT STANDARDS, OR TO THE REQUIREMENTS OF THE PROPERTY OWNERS, IF NOT WITHIN THE UDOT ROW

EXISTING ASPHALT MUST BE SAWCUT AT DESIGNATED LINE LINES OR SKIDDED CENTER OF LINE. SAWCUTS MUST BE CLEANED AND A TACK COAT APPLIED BEFORE ASPHALT PLACEMENT (MILLING EDGES TO BE TREATED THE SAME)

2" MILL AND FILL TYPICAL EACH SIDE OF TRENCH

COVER DEPTH SEE UDOT STANDARD DRAWING DD16

6" BEEDING MATERIAL UNDER PIPE COMPACT TO 90% AASHTO T-180

UNSTABLE GROUND AREAS 6" PIPE FOUNDATION MATERIAL COMPACT TO 90% AASHTO T-180

6" UTBC PER UDOT STD. SPEC 0271

10" UNIMPORTED GRANULAR BORROW PER UDOT STD. SPEC 0266

GRANULAR BORROW OR APPROVED NATIVE MATERIAL COMPACTED TO 90% BY AASHTO T180 METHOD 7

BEEDING MATERIAL (SAND OR 1/2" MINUS GRAVEL) 12" MIN. OVER PIPE. MATERIAL SHALL BE COMPACTED TO 90% BY AASHTO T180 METHOD 7

TRACER WIRE #14 GAUGE PLASTIC COATED COPPER TAPED TO TOP OF PIPE

INSTALL PIPE ON STABLE FOUNDATION WITH UNIFORM BEARING UNDER FULL LENGTH OF PIPE

SHAPE TRENCH BY HAND TO FIT BOTTOM QUADRANT OF PIPE

GRAVEL DRAIN 1 CU. TO MIN.

**3A TYPICAL TRENCH SECTION** NTS

**3B UDOT CROSSING TRENCH DETAIL** NTS

DRAFTED: MOD. DEVIATIONS FROM STANDARDS MUST BE APPROVED DESIGNED: CBY BY TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT (TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT) CHECKED: JRE (DISTRICT UTAN-DOW APPROVAL, R030) REV. 1 - 3A, 2022-01-21, PIPE SIZE, TYPE, COLOR REV. 2 - REV. 3 - REV. 4 -

STANDARD WATER DETAILS TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT TYPICAL TRENCH DETAIL UDOT TRENCH DETAIL SHEET 2

**GARDNER ENGINEERING** CIVIL & LAND SURVEYING 1000 S. 1000 W. TAYLOR WEST WEBER, UTAH 84405 (801) 476-2000 (F) 801 476-0000

NOTES:

ACCEPTABLE COPPER SETTINGS: FORD BWHC 72-10W-44-4420L

ACCEPTABLE COPPER CONNECTION STDS: FORD F81100-4-0-NL

ALL COMPRESSION FITTINGS SHALL HAVE STAINLESS STEEL INSERTS

CAST IRON COVER WITH ANTENNA DIAL LEG UNIVERSAL

STANDARD CURB AND GUTTER

ASPHALT ROAD SURFACE

6" X 30" CONCRETE METER BOX

INSTALL 14 GAUGE TRACING WIRE ALONG SERVICE LINE FROM MAIN TO PROPERTY

CORPORATION STOP (SEE NOTES)

ROMAC SPOOLE DRAIN 1" I.P. THREADED ON SAKO/LEICORP 35000 POWER JOINT

1"CTS POLY PIPE SDR 9, 200' PER MAIN TO METER AND METER TO PROPERTY LINE

COLLARIARY WATER MAIN FINISH GRADE TO TOP OF PIPE 4'-0" MIN.

STUB INSIDE OF PROPERTY LINE AND LOW POINT CONNECTED FOR SERVICE

NOTE: HYDRANT DRAINS SHALL NOT BE CONNECTED TO OR LOCATED WITHIN 10 FEET OF SANITARY SEWERS. WHERE POSSIBLE, HYDRANT DRAINS SHALL NOT BE LOCATED WITHIN 10 FEET OF STORM

**4 TYPICAL WATER CONNECTION/RE-CONNECTION** NTS

**5 FIRE HYDRANT DETAIL** NTS

DRAFTED: MOD. DEVIATIONS FROM STANDARDS MUST BE APPROVED DESIGNED: CBY BY TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT (TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT) CHECKED: JRE (DISTRICT UTAN-DOW APPROVAL, R030) REV. 1 - 3/22, AND SAKO/LEICORP 35000 REV. 2 - REV. 3 - REV. 4 -

STANDARD WATER DETAILS TAYLOR WEST WEBER WATER IMPROVEMENT DISTRICT TYPICAL WATER CONNECTION DETAIL FIRE HYDRANT DETAIL SHEET 3

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**IRA**

REVISIONS

DATE	DESCRIPTION
08-01-23	NF City Comments
08-07-23	NF Irr. & Wtr. Comments

**Anselmi Acres Subdivision**  
 WEBER COUNTY, UTAH

**TWWID Details**

REGISTERED PROFESSIONAL ENGINEER  
 375328  
 J. NATE REEVE  
 08/07/2021  
 STATE OF UTAH

**Project Info.**  
 Engineer: J. NATE REEVE, P.E.  
 Drafter: N. FICKLIN  
 Begin Date: MAY, 2023  
 Name: ANSELMI ACRES SUBDIVISION  
 Number: 7152-19

14.1  
 16 Total Sheets

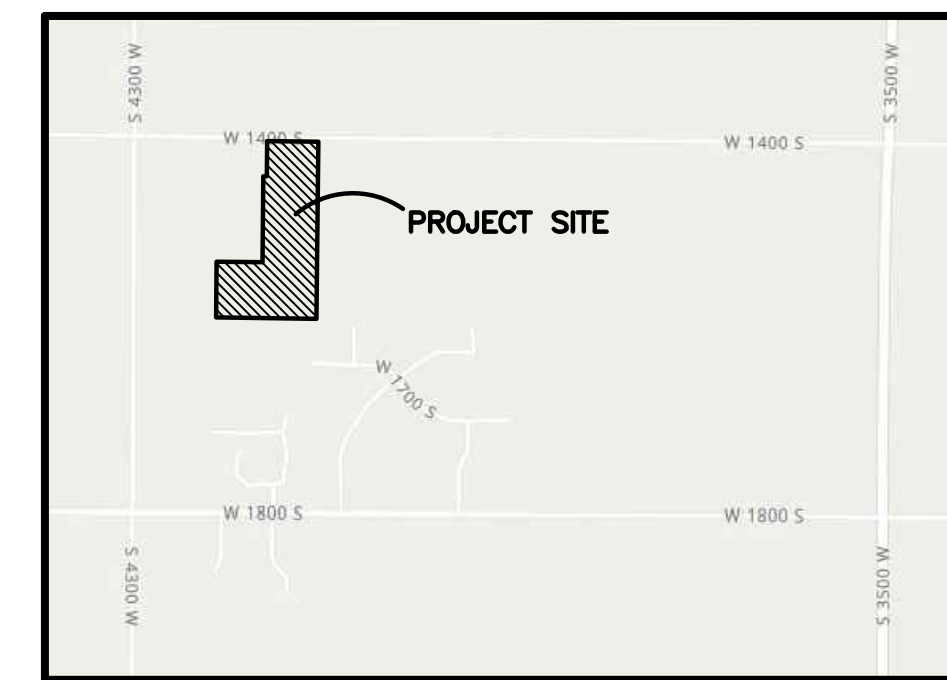
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# ANSEMI ACRES

## Storm Water Pollution Prevention Plan Exhibit

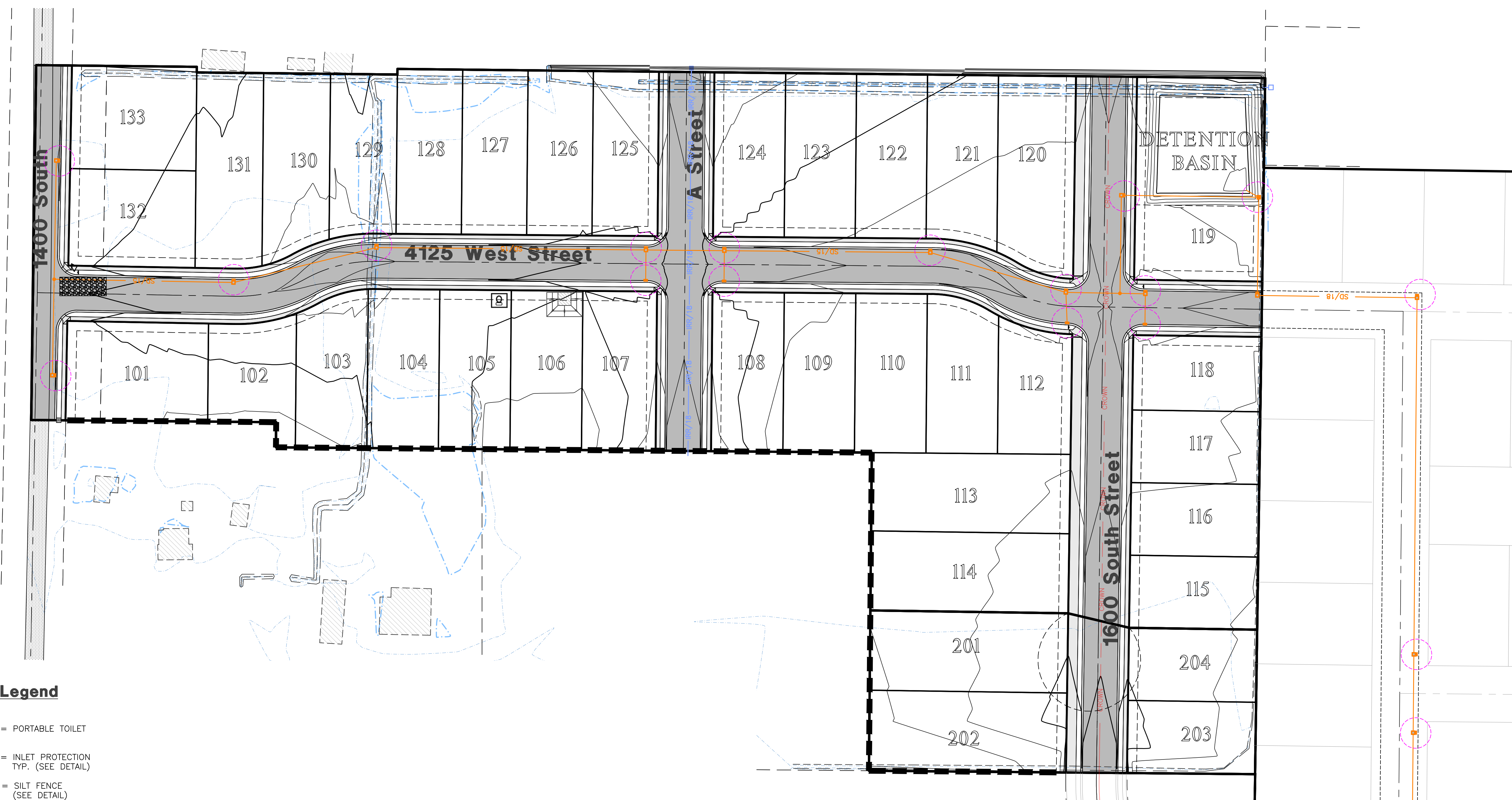
WEBER COUNTY, UTAH  
MAY, 2023



Vicinity Map  
NOT TO SCALE

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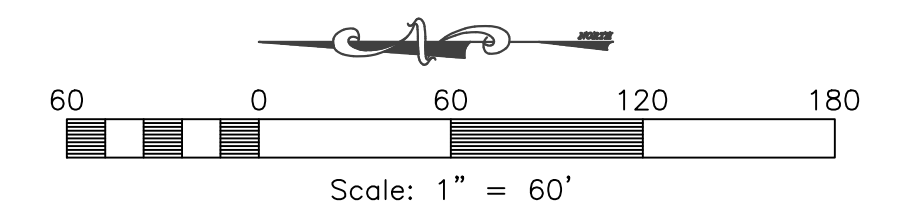
REVISIONS	DATE	DESCRIPTION
	08-01-23	NF City Comments
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**SWPPP Legend**

- = PORTABLE TOILET
- = INLET PROTECTION TYP. (SEE DETAIL)
- = SILT FENCE (SEE DETAIL)
- = 50'x20' CONSTRUCTION ENTRANCE W/8" CLEAN GRAVEL
- = CONCRETE WASH AREA (SEE DETAIL) OR AS SELECTED BY CONTRACTOR

- SWPPP NOTES:**
- ALL VEHICLES EXITING SITE TO PROCEED THROUGH CONSTRUCTION ENTRANCE TO REDUCE AMOUNTS OF SEDIMENT TRACKED ONTO ROADWAYS.
  - STREETS TO BE SWEEPED WITHIN 1000 FEET OF CONSTRUCTION ENTRANCE DAILY IF NECESSARY.



Construction Activity Schedule	
PROJECT LOCATION.....	WEBER COUNTY, (UT)
PROJECT BEGINNING DATE.....	MAY 2023
BMP'S DEPLOYMENT DATE.....	MAY 2023
STORM WATER MANAGEMENT CONTACT / INSPECTOR.....	SKY HAZLEHURST (801) 837-2020
SPECIFIC CONSTRUCTION SCHEDULE INCLUDING BMP CONSTRUCTION SCHEDULE TO BE INCLUDED WITH SWPPP BY OWNER/DEVELOPER	

**Anselmi Acres Subdivision**  
WEBER COUNTY, UTAH

**Storm Water Pollution Prevention Plan Exhibit**

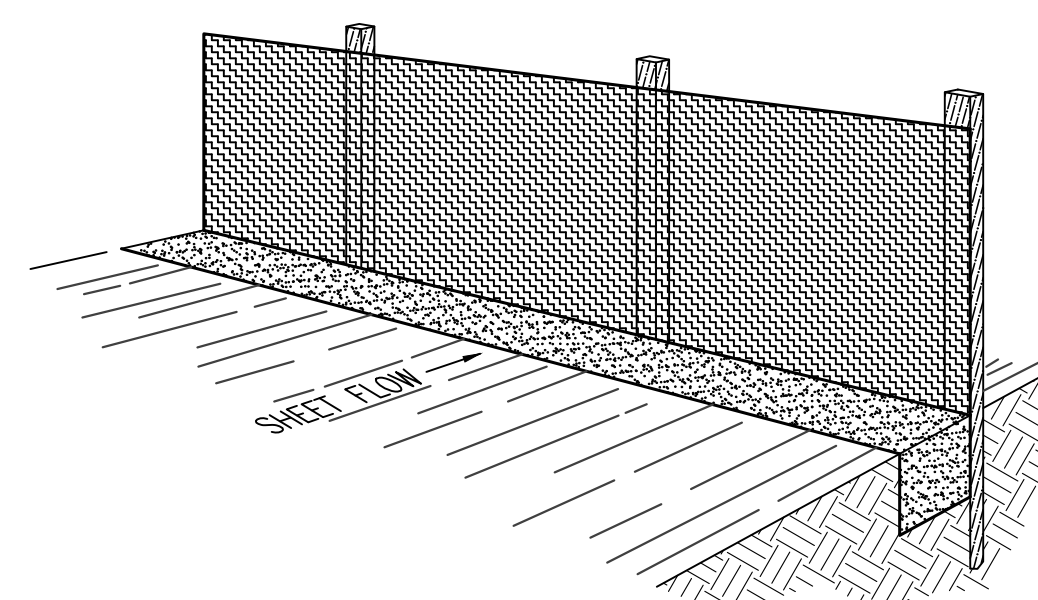


Project Info.	
Engineer:	J. NATE REEVE, P.E.
Drafter:	N. FICKLIN
Begin Date:	MAY, 2023
Name:	ANSEMI ACRES SUBDIVISION
Number:	7152-19



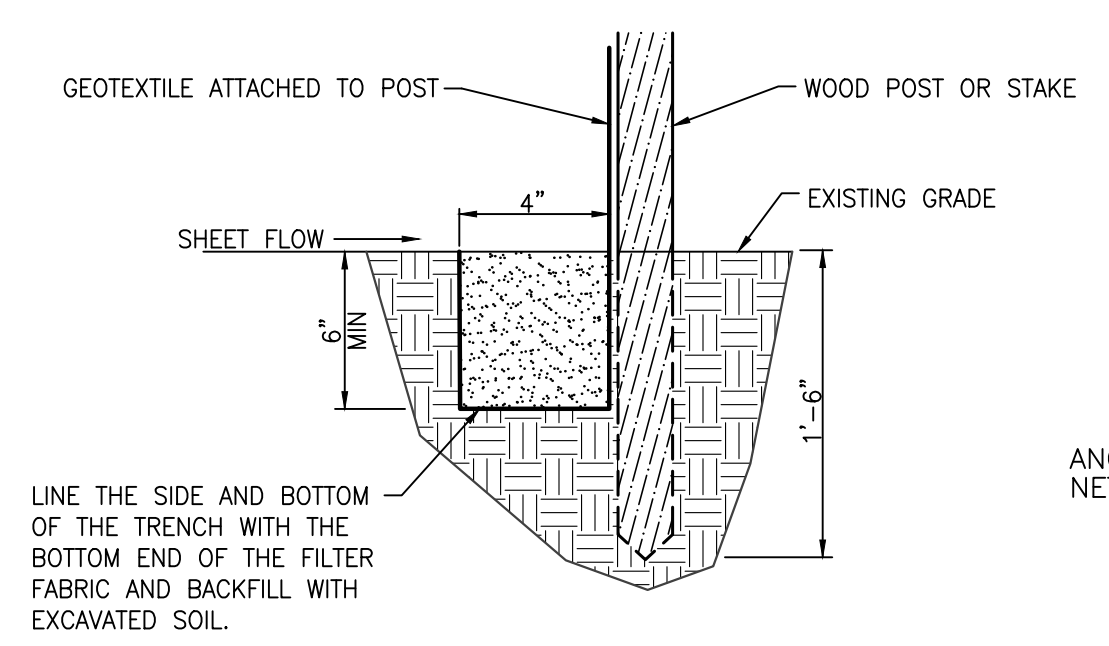
**Notes:**

- Describe all BMP's to protect storm water inlets:  
All storm water inlets to be protected by straw wattle barriers, or gravel bags (see detail).
- Describe BMP's to eliminate/reduce contamination of storm water from:
  - Equipment / building / concrete wash areas:  
To be performed in designated areas only and surrounded with silt fence barriers.
  - Soil contaminated by soil amendments:  
If any contaminants are found or generated, contact environmental engineer and contacts listed.
  - Areas of contaminated soil:  
If any contaminants are found or generated, contact environmental engineer and contacts listed.
  - Fueling area:  
To be performed in designated areas only and surrounded with silt fence.
  - Vehicle maintenance areas:  
To be performed in designated areas only and surrounded with silt fence.
  - Vehicle parking areas:  
To be performed in designated areas only and surrounded with silt fence.
  - Equipment storage areas:  
To be performed in designated areas only and surrounded with silt fence.
  - Materials storage areas:  
To be performed in designated areas only and surrounded with silt fence.
  - Waste containment areas:  
To be performed in designated areas only and surrounded with silt fence.
  - Service areas:  
To be performed in designated areas only and surrounded with silt fence.
- BMP's for wind erosion:  
Stockpiles and site as needed to be watered regularly to eliminate / control wind erosion
- Construction Vehicles and Equipment:
  - Maintenance
    - Maintain all construction equipment to prevent oil or other fluid leaks.
    - Keep vehicles and equipment clean; prevent excessive build-up of oil and grease.
    - Regularly inspect on-site vehicles and equipment for leaks, and repair immediately.
    - Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment on-site.
    - Segregate and recycle wastes, such as greases, used oil or oil filters, antifreeze, cleaning solutions, automotive batteries, hydraulic, and transmission fluids.
  - Fueling
    - If fueling must occur on-site, use designated areas away from drainage.
    - Locate on-site fuel storage tanks within a bermed area designed to hold the tank volume.
    - Cover retention area with an impervious material and install in a manner to ensure that any spills will be contained in the retention area. To catch spills or leaks when removing or changing fluids.
    - Use drip pans for any oil or fluid changes.
  - Washing
    - Use as little water as possible to avoid installing erosion and sediment controls for the wash area.
    - If washing must occur on-site, use designated, bermed wash areas to prevent waste water discharge into storm water, creeks, rivers, and other water bodies.
    - Use phosphate-free, biodegradable soaps.
    - Do not permit steam cleaning on-site.
- Spill Prevention and Control
  - Minor Spills:  
Minor spills are those which are likely to be controlled by on-site personnel. After contacting local emergency response agencies, the following actions should occur upon discovery of a minor spill:
    - Contain the spread of the spill.
    - If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (i.e. absorbent materials, cat litter, and / or rags).
    - If the spill occurs in dirt areas, immediately contain the spill by constructing an earth dike. Dig up and properly dispose of contaminated soil.
    - If the spill occurs during rain, cover the impacted area to avoid runoff.
    - Record all steps taken to report and contain spill.
  - Major Spills:  
On-site personnel should not attempt to control major spills until the appropriate and qualified emergency response staff have arrived at the site. For spills of federal reportable quantities, also notify the National Response Center at (800) 424-8802. A written report should be sent to all notified authorities. Failure to report major spills can result in significant fines and penalties.
- Post Roadway / Utility Construction
  - Maintain good housekeeping practices.
  - Enclose or cover building material storage areas.
  - Properly store materials such as paints and solvents.
  - Store dry and wet materials under cover, away from drainage areas.
  - Avoid mixing excess amounts of fresh concrete or cement on-site.
  - Perform washout of concrete trucks offsite or in designated areas only.
  - Do not wash out concrete trucks into storm drains, open ditches, streets or streams.
  - Do not place material or debris into streams, gutters or catch basins that stop or reduce the flow of runoff water.
  - All public streets and storm drain facilities shall be maintained free of building materials, mud and debris caused by grading or construction operations. Roads will be swept within 1000' of construction entrance daily, if necessary.
  - Install straw wattle around all inlets contained within the development and all others that receive runoff from the development.
- Erosion Control Plan Notes
  - The contractor will designate an emergency contact that can be reached 24 hours a day 7 days a week.
  - A stand-by crew for emergency work shall be available at all times during potential rain or snow runoff events. Necessary materials shall be available on site and stockpiled at convenient locations to facilitate rapid construction of emergency devices when rain or runoff is eminent.
  - Erosion control devices shown on the plans and approved for the project may not be removed without approval of the engineer of record. If devices are removed, no work may continue that have the potential of erosion without consulting the engineer of record. If deemed necessary erosion control should be reestablished before this work begins.
  - Graded areas adjacent to fill slopes located at the site perimeter must drain away from the top of the slope at the conclusion of each working day. This should be confirmed by survey or other means acceptable to the engineer of record.
  - All silt and debris shall be removed from all devices within 24 hours after each rain or runoff event.
  - Except as otherwise approved by the inspector, all removable protective devices shown shall be in place at the end of each working day and through weekends until removal of the system is approved.
  - All loose soil and debris, which may create a potential hazard to offsite property, shall be removed from the site as directed by the engineer of record of the governing agency.
  - The placement of additional devices to reduce erosion damage within the site is left to the discretion of the engineer of record.
  - Desilting basins may not be removed or made inoperable without the approval of the engineer of record and the governing agency.
  - Erosion control devices will be modified as need as the project progresses and plans of these changes submitted for approval by the engineer of record and the governing agency.
- Conduct a minimum of one inspection of the erosion and sediment controls every two weeks. Maintain documentation on site.
  - Part III.D.4 of general permit UTRC00000 identifies the minimum inspection requirements.
  - Part III.D.4.C identifies the minimum inspection report requirements.
  - Failure to complete and/or document storm water inspections is a violation of part III.D.4 of Utah General Permit UTR 300000.



**Perspective View**

Figure 2



**Section**

**INSTALLATION**

The silt fence should be installed prior to major soil disturbances in the drainage area. The fence should be placed across the slope along a line of uniform elevation wherever flow of sediment is anticipated. Table 1 shows generally-recommended maximum slope lengths (slope spacing between fences) at various site grades for most silt fence applications.

Slope Steepness (%)	Max. Slope Length m (ft)
<2%	30.5m (100ft)
2-5%	22.9m (75ft)
5-10%	15.2m (50ft)
10-20%	7.6m (25ft)
>20%	4.5m (15ft)

**PREFABRICATED SILT FENCE ROLLS**  
 \*Excavate a minimum 15.2cm x 15.2cm (6"x6") trench at the desired location.  
 \*Unroll the silt fence, positioning the post against the downstream wall of the trench.  
 \*Adjacent rolls of silt fence should be joined by nesting the end post of one fence into the other. Before nesting the end posts, rotate each post until the geotextile is wrapped completely around the post, then abut the end posts to create a tight seal as shown in Figure 1.  
 \*Drive posts into the ground until the required fence height and/or anchorage depth is obtained.  
 \*Bury the loose geotextile at the bottom of the fence in the upstream trench and backfill with natural soil, tamping the backfill to provide good compaction and anchorage. Figure 2 illustrates a typical silt fence installation and anchor trench placement.

should generally be less than three (3) times the height of the fence.

\*If a steel or plastic mesh is required to reinforce the geotextile, it shall have a minimum mesh opening of 15.2cm (6").  
 \*Fasten the mesh to the upslope side of the posts using heavy duty wire staples, tie wires or hog strings. Extend the mesh into the bottom of the trench.  
 \*The geotextile shall then be stapled or wired to the posts. An extra 20-50cm (8-20") of geotextile shall extend into the trench.

**INSPECTION**

\*Inspect the silt fence daily during periods of rainfall, immediately after significant rainfall event and weekly during periods of no rainfall. Make any repairs immediately.  
 \*When sediment deposits behind the silt fence are one-third of the fence height, remove and properly dispose of the silt accumulations. Avoid damage to the fabric during cleanout.

**REMOVAL**

\*Silt fence should not be removed until construction ceases and the upslope area has been properly stabilized and/or revegetated.

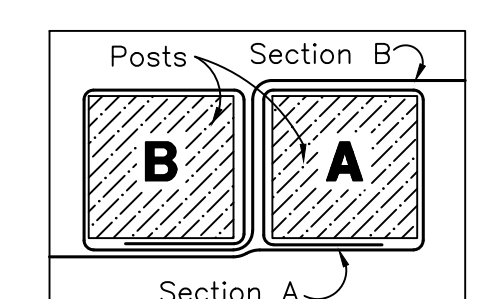


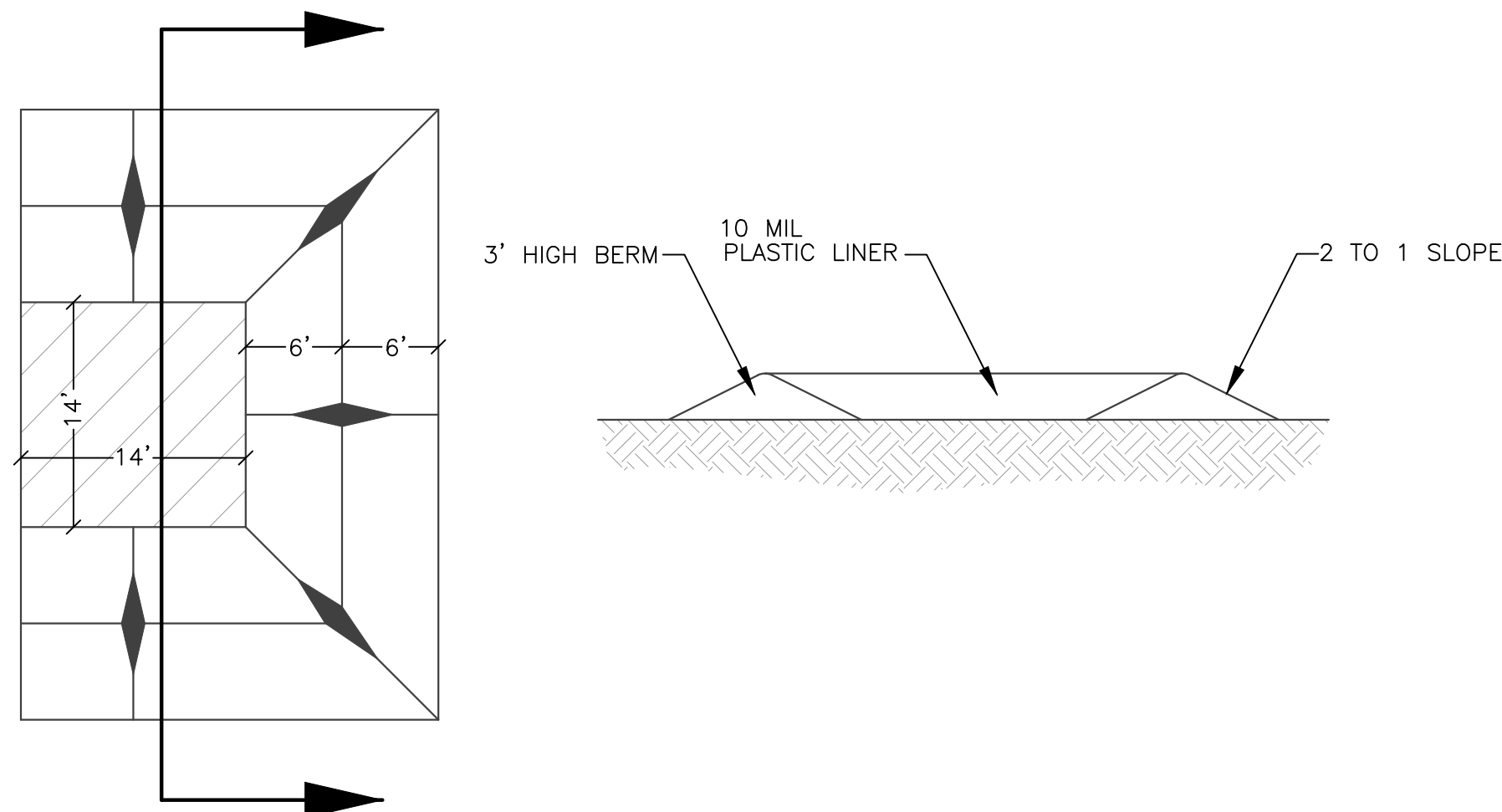
Figure 1: Top View of Roll-to-Roll Connection

**FIELD ASSEMBLY:**

\*Excavate a minimum 15.2cm x 15.2cm (6"x6") trench at the desired location.  
 \*Drive wooden posts, or steel posts with fastening projections, against the downstream wall of the trench. Maximum post spacing should be 2.4-3.0m (8-10ft). Post spacing

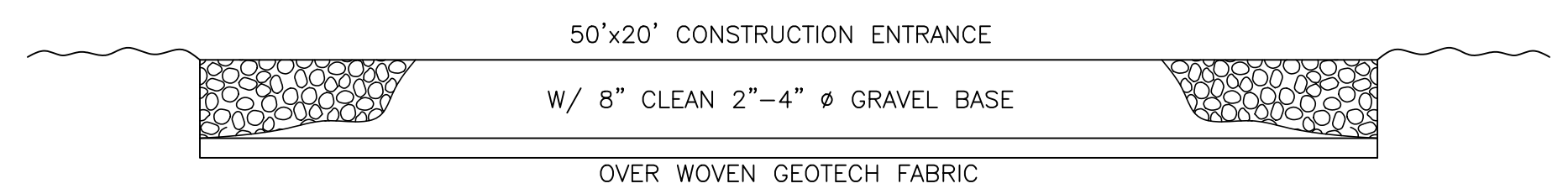
**Silt Fence Detail**

SCALE: NONE

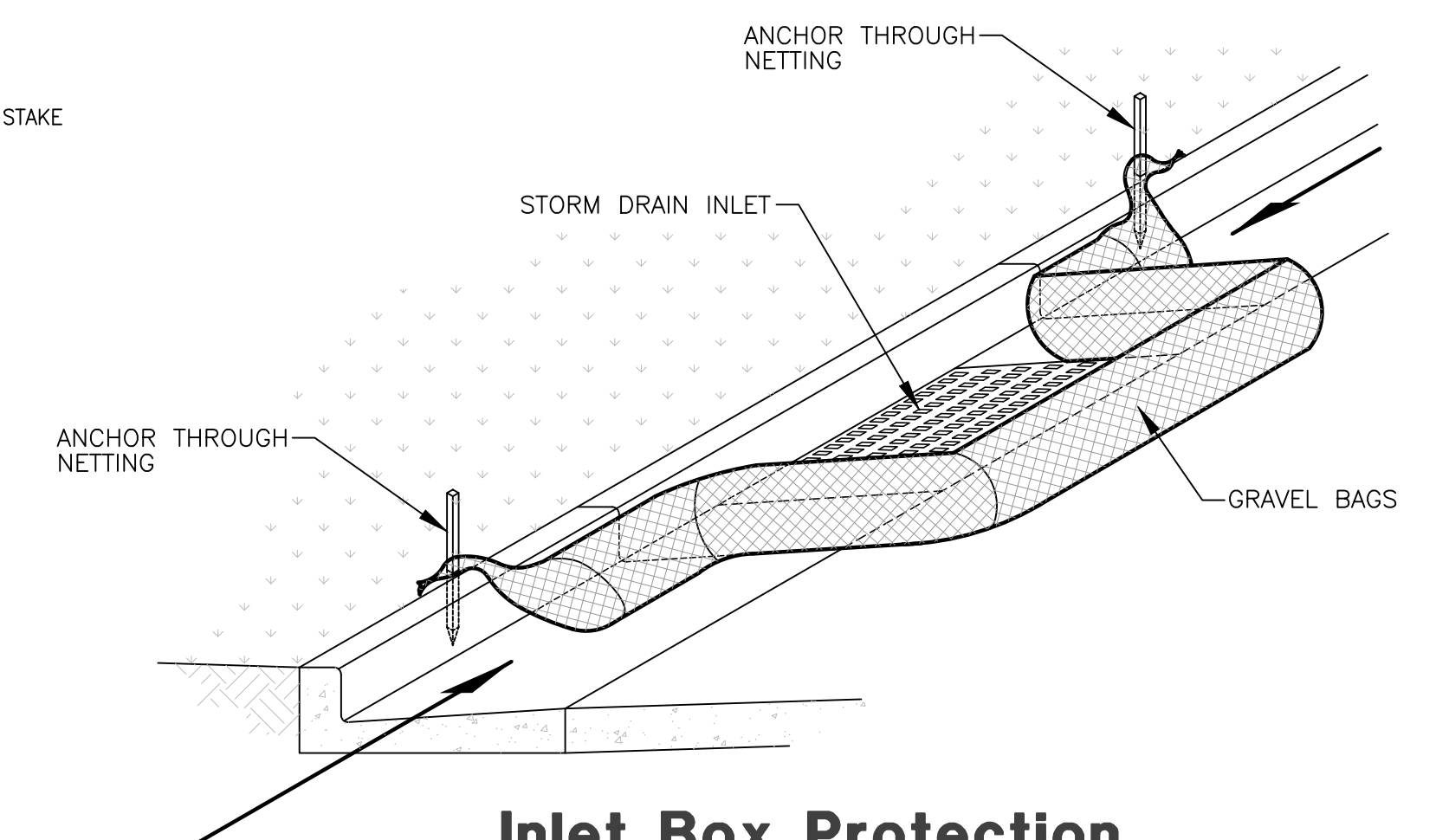


**Concrete Washout Area w/ 10 mil Plastic Liner**

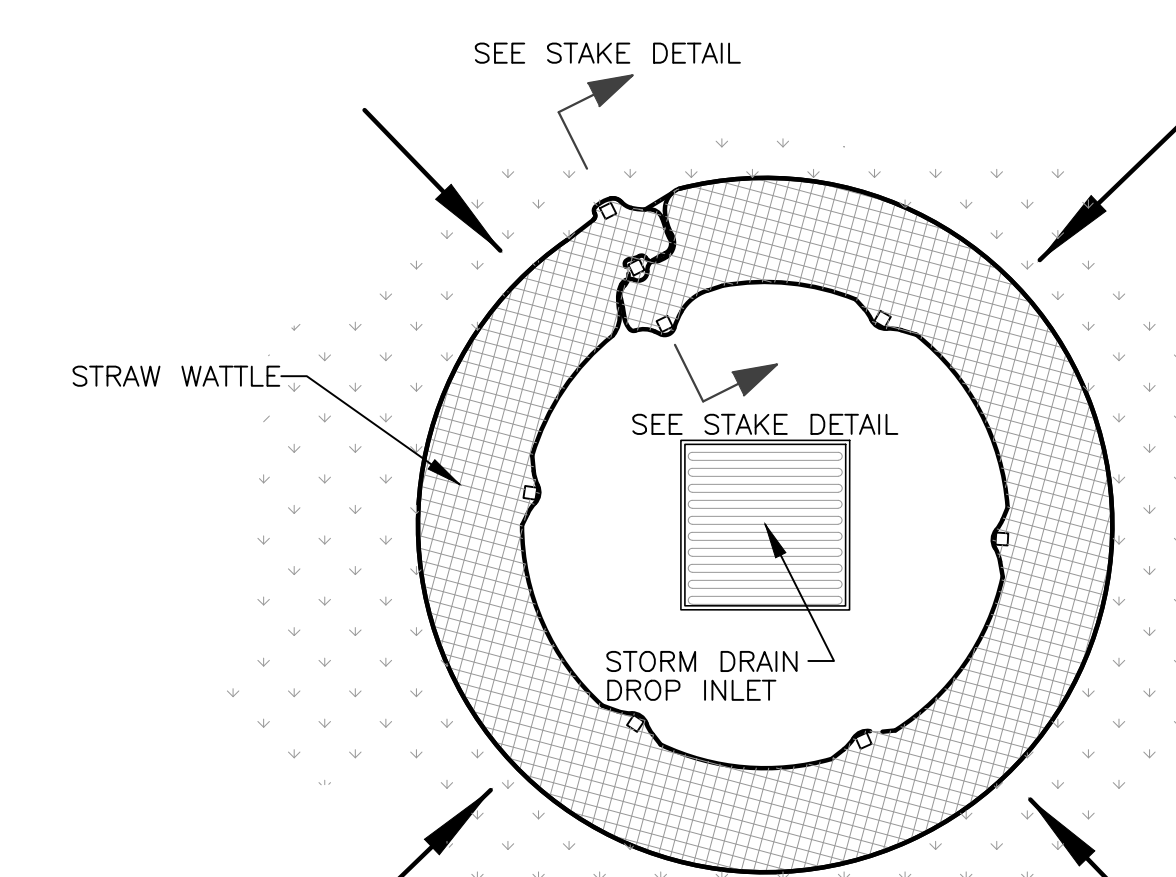
SCALE: NONE



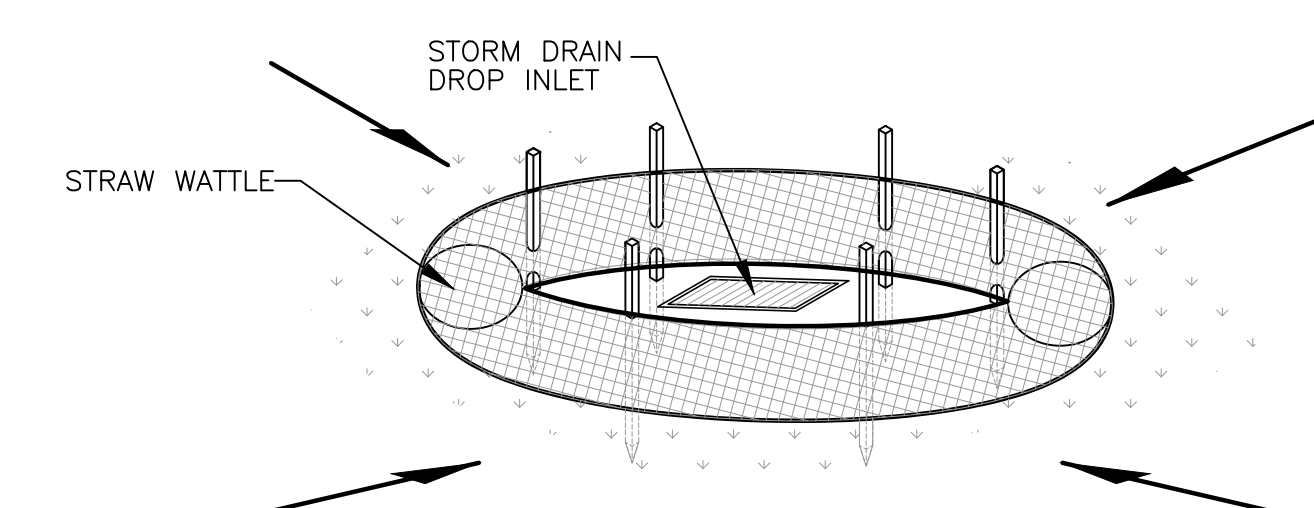
**Cross Section 50' x 20' Construction Entrance**



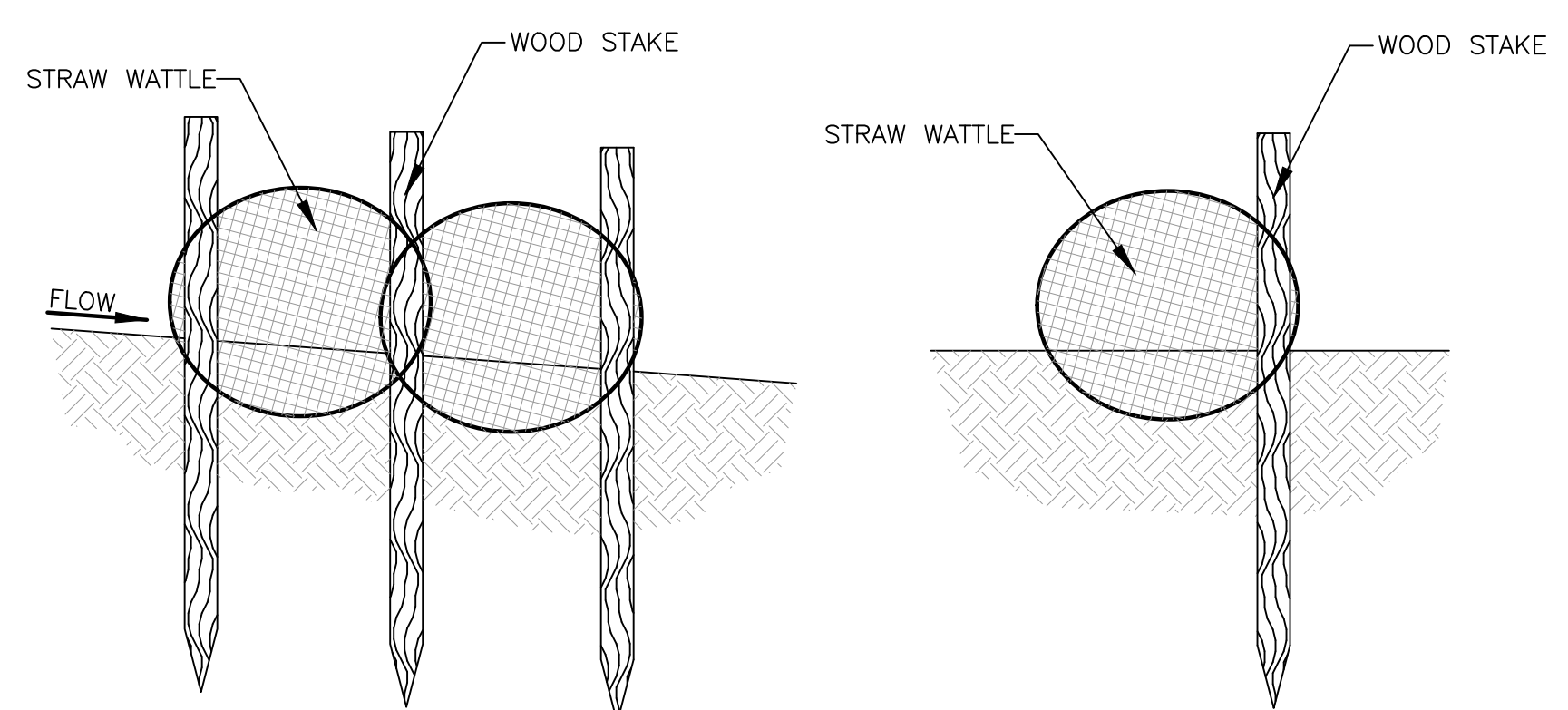
**Inlet Box Protection**



**Plan View**



**Drop Inlet Protection**



**Stake Detail**

**Reeve & Associates, Inc.**  
 5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405  
 TEL: (801) 621-3100 www.reeve.co

**RA**

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REVISIONS	DATE	DESCRIPTION
08-01-23	NF	City Comments
08-07-23	NF	Irr. & Wtr. Comments

**Anselmi Acres Subdivision**  
 WEBER COUNTY, UTAH

**Storm Water Pollution Prevention Plan Details**

REGISTERED PROFESSIONAL ENGINEER  
 375328  
 J. NATE REEVE  
 08/07/2023  
 STATE OF UTAH

**Project Info.**  
 Engineer: J. NATE REEVE, P.E.  
 Drafter: N. FICKLIN  
 Begin Date: MAY, 2023  
 Name: ANSELMI ACRES SUBDIVISION  
 Number: 7152-19