

REVISION		
DESCRIPTION	DATE	SHEETS AFFECTED

LIGHTHOUSE HEIGHTS SUBDIVISION

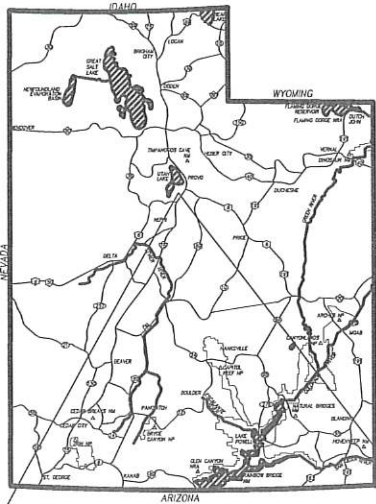
ELK RIDGE DRIVE

ELK RIDGE, UT

LOCATED IN THE NORTHWEST
QUARTER OF SECTION 26,
TOWNSHIP 9 SOUTH, RANGE 2 EAST,
SALT LAKE BASE AND MERIDIAN
ELK RIDGE, UTAH COUNTY, UTAH

SEPTEMBER 1, 2021

INDEX OF SHEETS	
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C1.0	DEMOLITION PLAN
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C4.0-C4.1	GRADING & DRAINAGE PLAN
C5.0-C5.4	PLAN & PROFILE
C6.0-C6.1	EROSION CONTROL PLAN
C7.0-C7.2	TYPICAL SECTIONS AND DETAILS



VICINITY MAP
NOT TO SCALE

ENGINEER/LAND SURVEYOR
PEPG CONSULTING, L.L.C.
CONTACT: RYAN KITCHEN (PROJECT ENGINEER)
AT (801) 562-2521
CONTACT: ROB LAW (SURVEYOR MANAGER)
AT (801) 562-2521

CLIENT
LIGHTHOUSE CUSTOM HOMES
PO BOX 525
RIVERTON, UT 84065
CONTACT: NATE BRUSIK

1/9/22



FINAL PLANS

PEPG CONSULTING L.L.C.

9270 SOUTH 300 WEST • SANDY, UT 84070
PHONE: (801) 562-2521 • FAX: (801) 562-2551

CIVIL ENGINEERING • LAND SURVEYING • PROJECT MANAGEMENT
GEOTECHNICAL • MATERIALS TESTING • INSPECTIONS

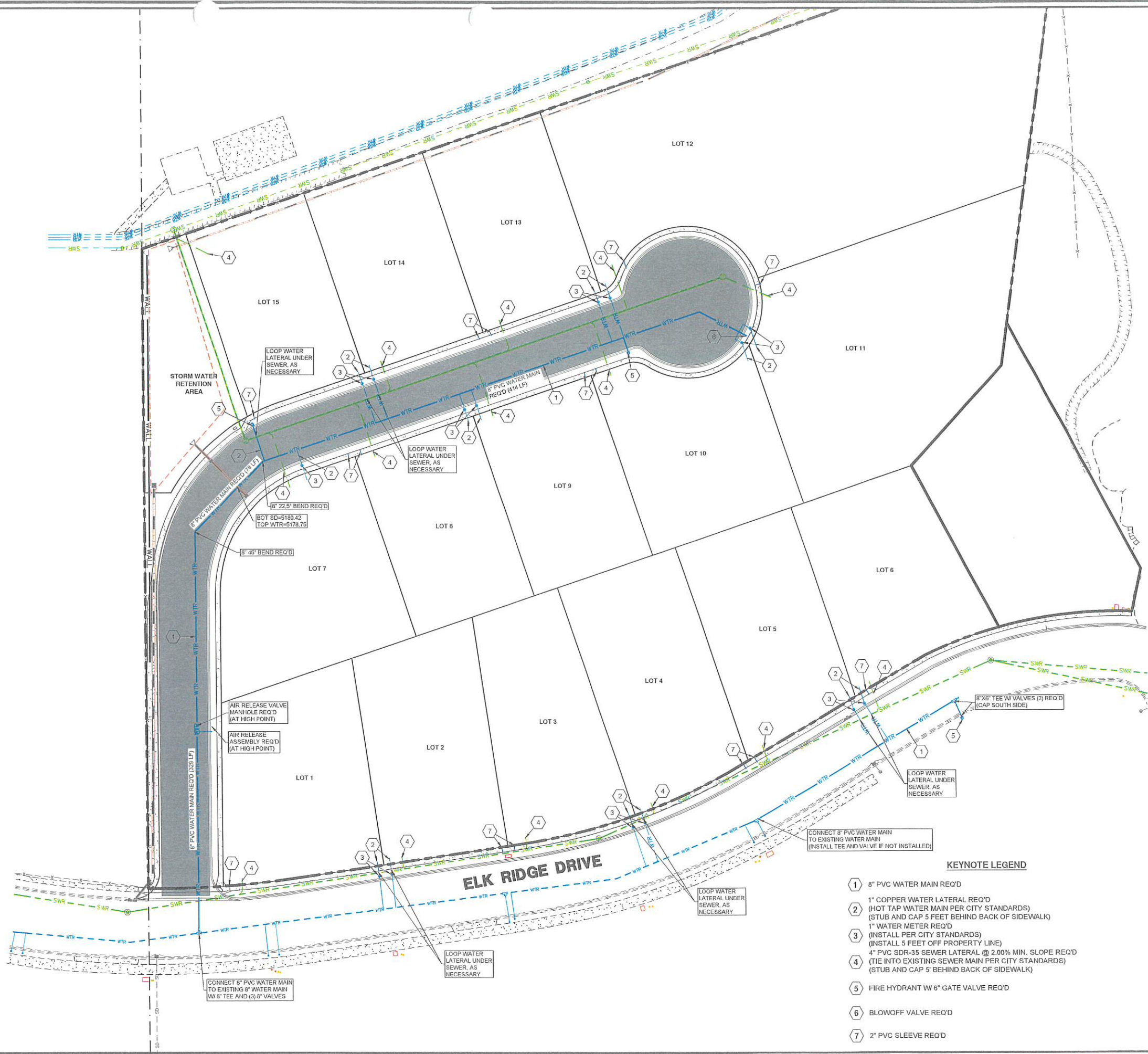
SEPTEMBER 1, 2021
DATE:

6898.2010
PROJECT:

DWG/00-TITLE-01
FILE:

SHEET NO. **C0.0**

BENCHMARK
NORTHWEST CORNER SECTION 26,
TOWNSHIP 9 SOUTH, RANGE 2 EAST
SALT LAKE BASE & MERIDIAN
BENCHMARK=5180.87
(MONUMENT FOUND)
NAD 83 COORDINATE



SCALE IN FEET

LEGEND

- PROPOSED BOUNDARY
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- EXISTING STORM DRAIN LINE
- EXISTING OVERHEAD ELECTRIC
- EXISTING TELECOM LINE
- EXISTING GAS LINE
- PROPOSED BUILDING
- PROPOSED CURB & GUTTER
- PROPOSED SIDEWALK
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- PROPOSED SEWER LATERAL
- PROPOSED STORM DRAIN LINE
- PROPOSED SAWCUT LINE

NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND SPECIFICATIONS. IN THE ABSENCE OF PROJECT STANDARD AND SPECIFICATIONS APWA STANDARD AND SPECIFICATIONS SHALL GOVERN.
- ALL WORK SHALL COMPLY WITH THE PROJECT PLANS, PROJECT SPECIFICATIONS, AND PROJECT GEOTECHNICAL ENGINEERING REPORT, WHICHEVER IS THE MOST STRINGENT.
- CONTRACTOR SHALL RETAIN AND PROTECT ALL EXISTING IMPROVEMENTS UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE TO REPAIR ALL SIDEWALK, PAVEMENT, GRAVEL, UTILITIES, LANDSCAPING, IRRIGATION, FENCING AND EXISTING IMPROVEMENTS DAMAGED AS PART OF CONSTRUCTION.
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- IF DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED WHICH INDICATE AN UNIDENTIFIED SITUATION IS PRESENT, THE CONTRACTOR SHALL CONTACT THE OWNER AND ENGINEER IMMEDIATELY.
- DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN CONTACT THE ENGINEER FOR CLARIFICATION.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES AMPLE MEANS AND DEVICES WITH WHICH TO REMOVE PROMPTLY AND TO PROPERLY DISPOSE OF ALL WATER ENTERING THE TRENCH EXCAVATION.
- CONTRACTOR SHALL INSTALL THRUST BLOCKING AT ALL WATERLINE ANGLE POINTS AND TEES.
- WATER AND SEWER LINES SHALL HAVE A MINIMUM OF 10' HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION. SEPARATION DISTANCES ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- FIRE HYDRANTS AND ACCESS ROADS SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF ANY BUILDINGS. ALL HYDRANTS SHALL BE PLACED WITH THE 4 1/2" CONNECTION FACING THE POINT OF ACCESS FOR FIRE DEPARTMENT APPARATUS. PROVIDE WRITTEN ASSURANCE THAT THIS IS MET.
- TRACER WIRE IS REQUIRED OVER THE NEW SEWER LINES.

KEYNOTE LEGEND

- 1 8" PVC WATER MAIN REQ'D
- 2 1" COPPER WATER LATERAL REQ'D (HOT TAP WATER MAIN PER CITY STANDARDS) (STUB AND CAP 5 FEET BEHIND BACK OF SIDEWALK)
- 3 1" WATER METER REQ'D (INSTALL PER CITY STANDARDS) (INSTALL 5 FEET OFF PROPERTY LINE)
- 4 4" PVC SDR-35 SEWER LATERAL @ 2.00% MIN. SLOPE REQ'D (TIE INTO EXISTING SEWER MAIN PER CITY STANDARDS) (STUB AND CAP 5' BEHIND BACK OF SIDEWALK)
- 5 FIRE HYDRANT W/ 6" GATE VALVE REQ'D
- 6 BLOWOFF VALVE REQ'D
- 7 2" PVC SLEEVE REQ'D

BENCHMARK
NORTHWEST CORNER SECTION 26,
TOWNSHIP 9 SOUTH, RANGE 2 EAST
SALT LAKE BASE & MERIDIAN
BENCHMARK=5180.87
(MONUMENT FOUND)
NAD 83 COORDINATE



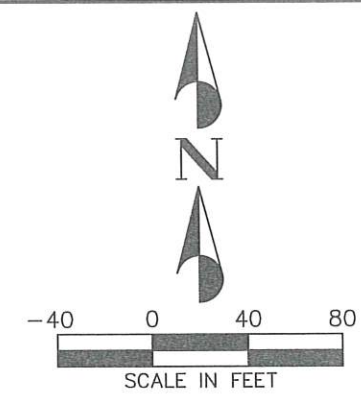
PEPG CONSULTING LLC
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CIVIL ENGINEERING • LAND SURVEYING • PROJECT MANAGEMENT
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LIGHTHOUSE HEIGHTS
SUBDIVISION
UTILITY PLAN
DWG. 03-UTIL-01
6898.2010
PROJECT NUMBER
SEPTEMBER 1, 2021
LAST REVISED

ELK RIDGE CITY

PROFESSIONAL ENGINEER
No. 7544732
RYAN KITCHEN
9-1-21
STATE OF UTAH

SHEET NO. C3.0



- LEGEND**
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 - FG FINISHED GRADE
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BENCHMARK
NORTHWEST CORNER SECTION 26,
TOWNSHIP 9 SOUTH, RANGE 2 EAST
SALT LAKE BASE & MERIDIAN
BENCHMARK=5180.87
(MONUMENT FOUND)
NAD 83 COORDINATE



NO.	DESCRIPTION	DATE	APP'D
1/21	PEPG		
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DRAWN BY:	RTD		
DESIGNED BY:	RLK		
CHECKED BY:	RLK		
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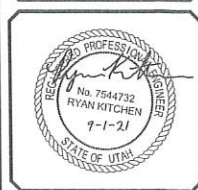
PEPG CONSULTING LLC
9270 SOUTH 300 WEST • SANDY, UT 84070
PHONE: (801) 562-2521 • FAX: (801) 562-2551

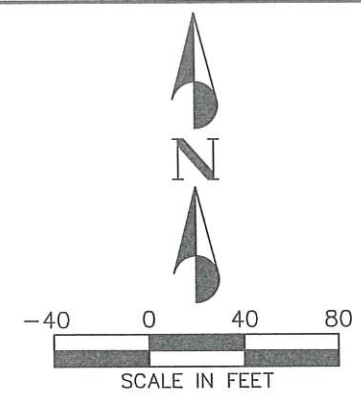
CIVIL ENGINEERING • LAND SURVEYING • PROJECT MANAGEMENT
GEOTECHNICAL • MATERIALS TESTING • INSPECTIONS

LIGHTHOUSE HEIGHTS
SUBDIVISION
GRADING & DRAINAGE
PLAN

SEPTEMBER 1, 2021 6895.2010 PROJECT NUMBER
LAST REVISED DWG 04- GRADE-01 DRAWING FILE

ELK RIDGE CITY





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 - EXISTING CURB & GUTTER
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BENCHMARK
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TOWNSHIP 9 SOUTH, RANGE 2 EAST
SALT LAKE BASE & MERIDIAN
BENCHMARK=5180.87
(MONUMENT FOUND)
NAD 83 COORDINATE



PEPG CONSULTING LLC
9270 SOUTH 300 WEST • SANDY, UT 84070
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CIVIL ENGINEERING • LAND SURVEYING • PROJECT MANAGEMENT
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**LIGHTHOUSE HEIGHTS
SUBDIVISION**

GRID GRADING
PLAN

ELK RIDGE
CITY

DATE: 1/21
SURVEY BY: PEPG
DRAWN BY: RTO
DESIGNED BY: RTO
CHECKED BY: RUK
SCALE: 1"=40'

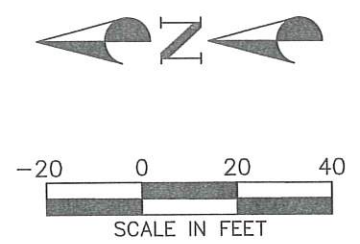
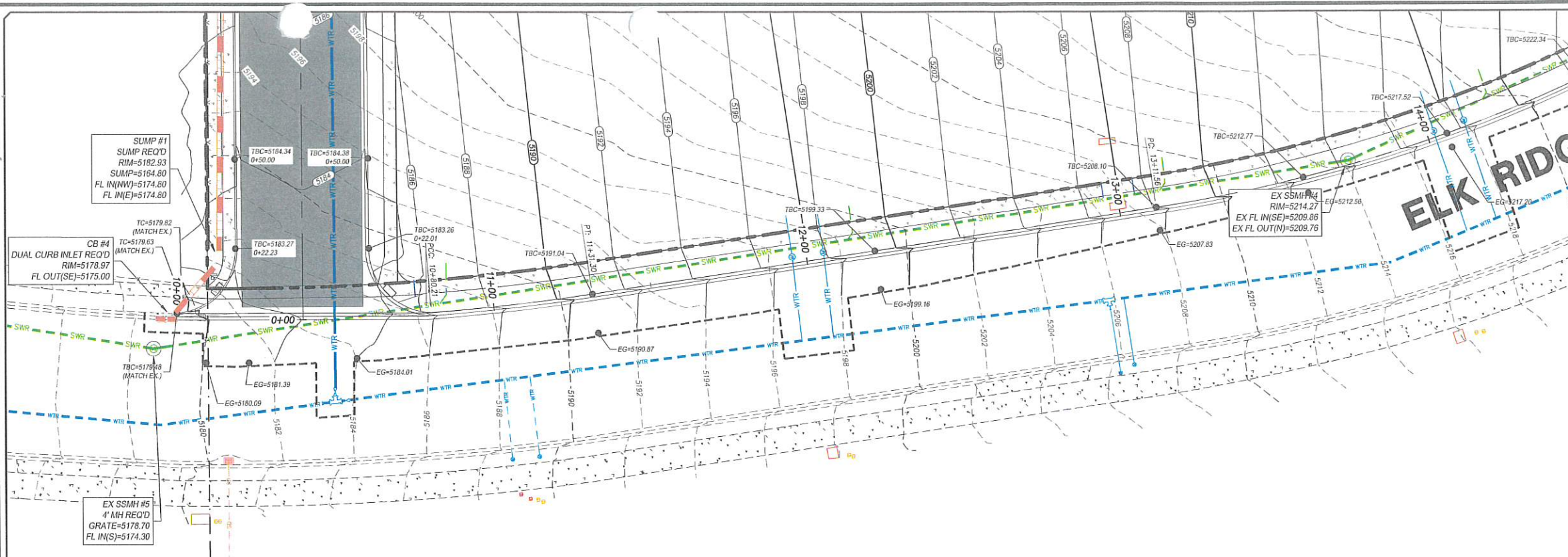
DWG: 04-GRADE-01
DRAWING FILE

6090.2010
PROJECT NUMBER

SEPTEMBER 1, 2021
LAST REVISED

PROFESSIONAL ENGINEER
No. 754732
RYAN KITCHEN
9-1-21
STATE OF UTAH

SHEET NO. **C4.1**

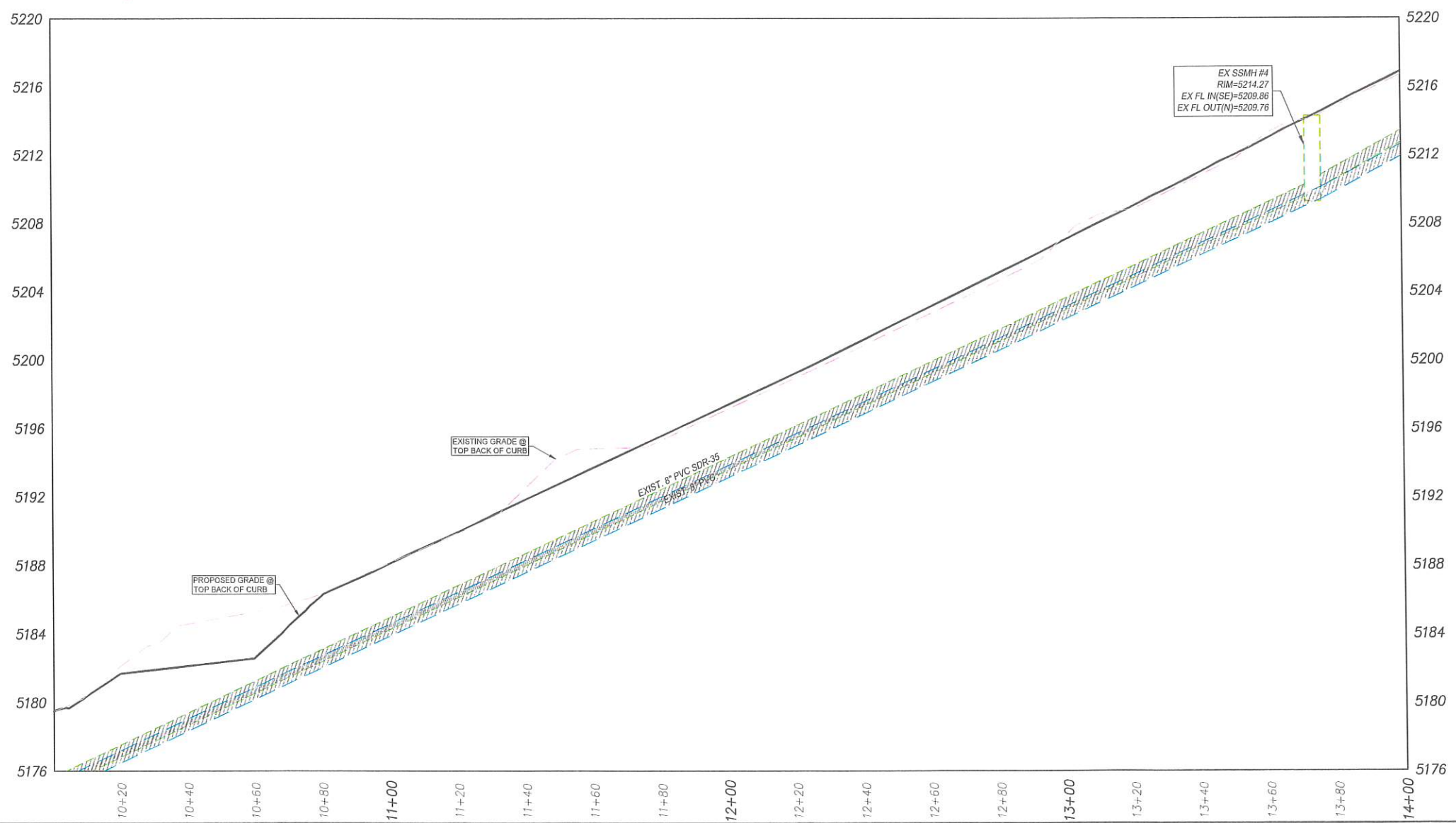


- LEGEND**
- PROPOSED BOUNDARY
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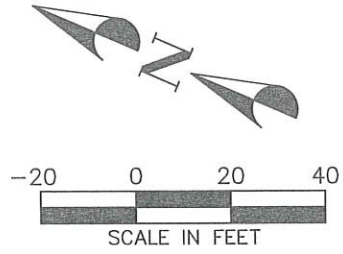
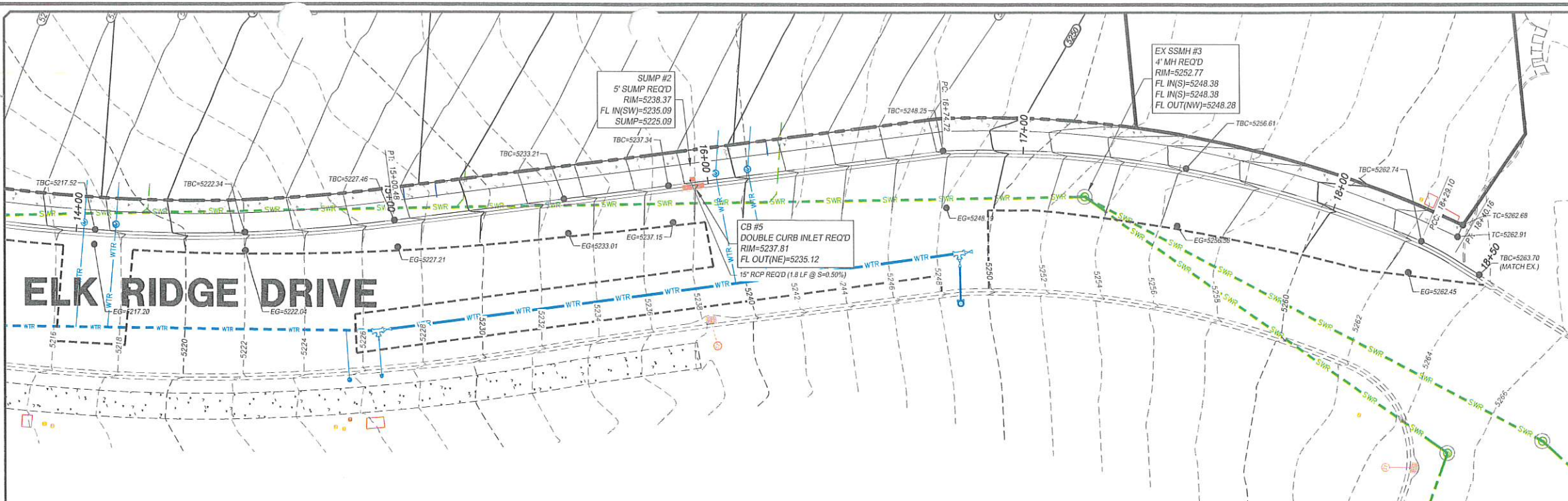
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LIGHTHOUSE HEIGHTS
SUBDIVISION
C&G PLAN & PROFILE
STA = 10+00 ~ 14+00
SEPTEMBER 1, 2021
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ELK RIDGE
CITY

PROFESSIONAL
No. 754132
RYAN KITCHEN
9-1-21
STATE OF UTAH

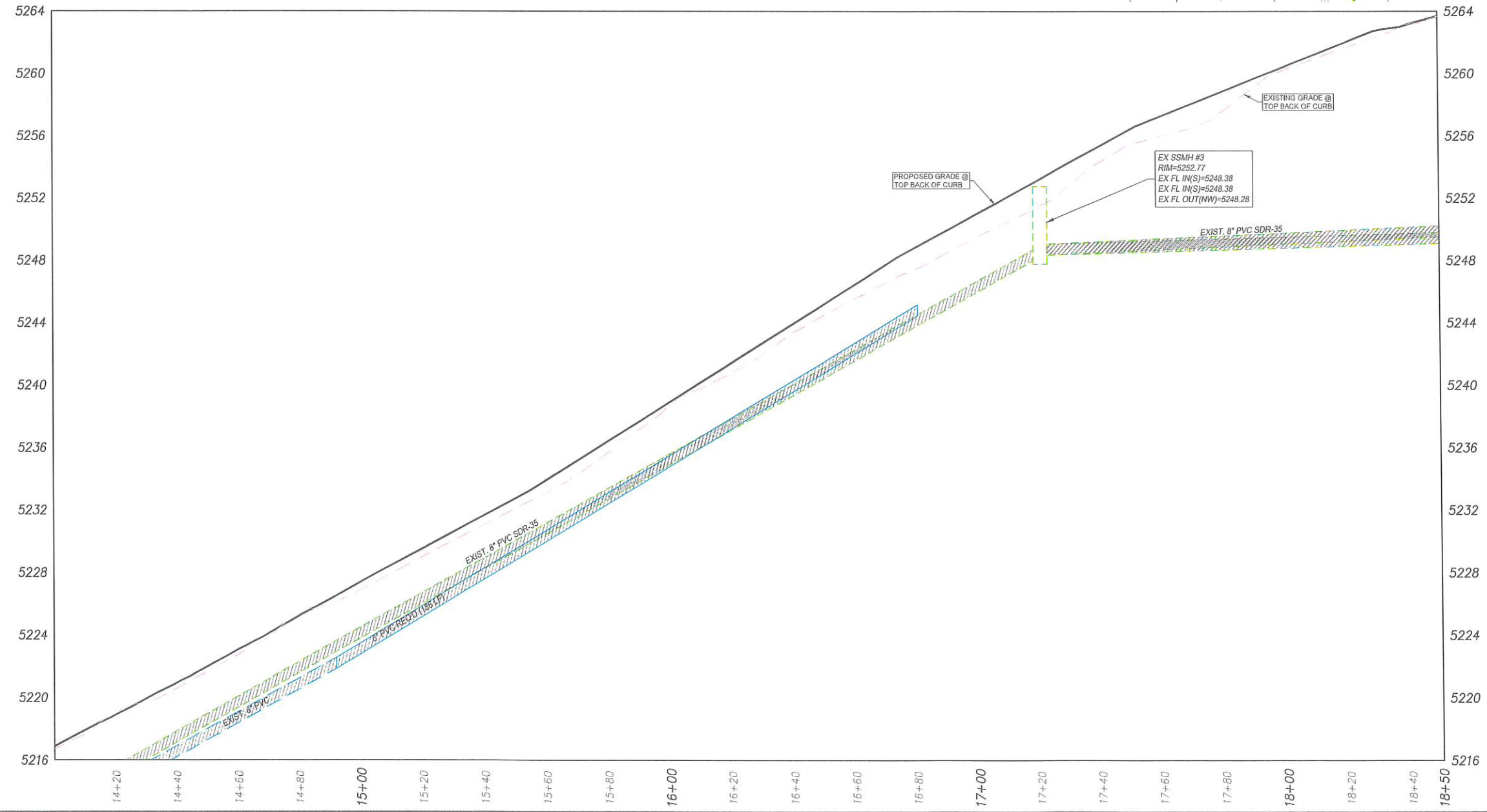
SHEET NO. **C5.0**



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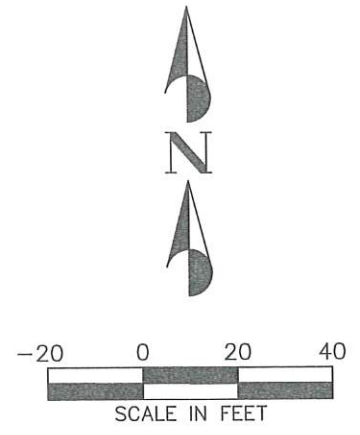
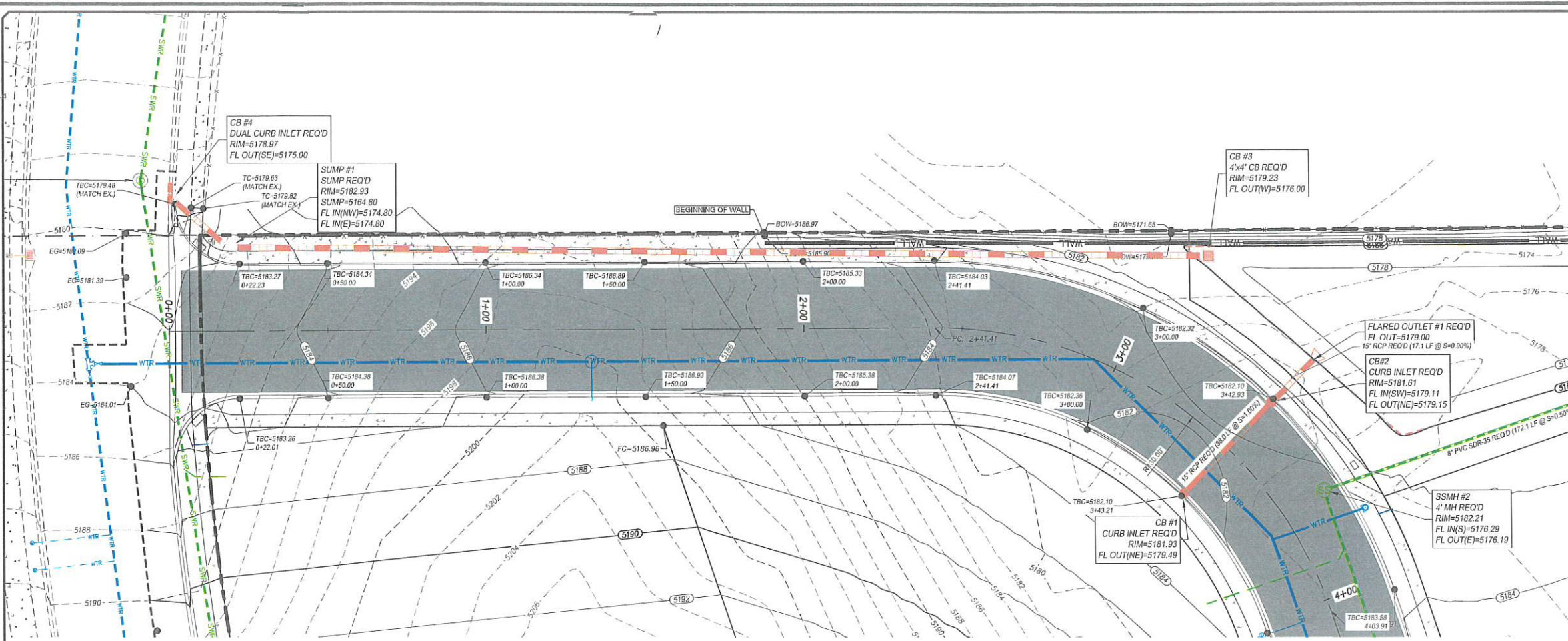
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LIGHTHOUSE HEIGHTS
SUBDIVISION
C&G PLAN & PROFILE
STA = 14+00 ~ 18+50
DWG 05-PL&PR0-01
DRAWING FILE

ELK RIDGE
CITY



SHEET NO. **C5.1**

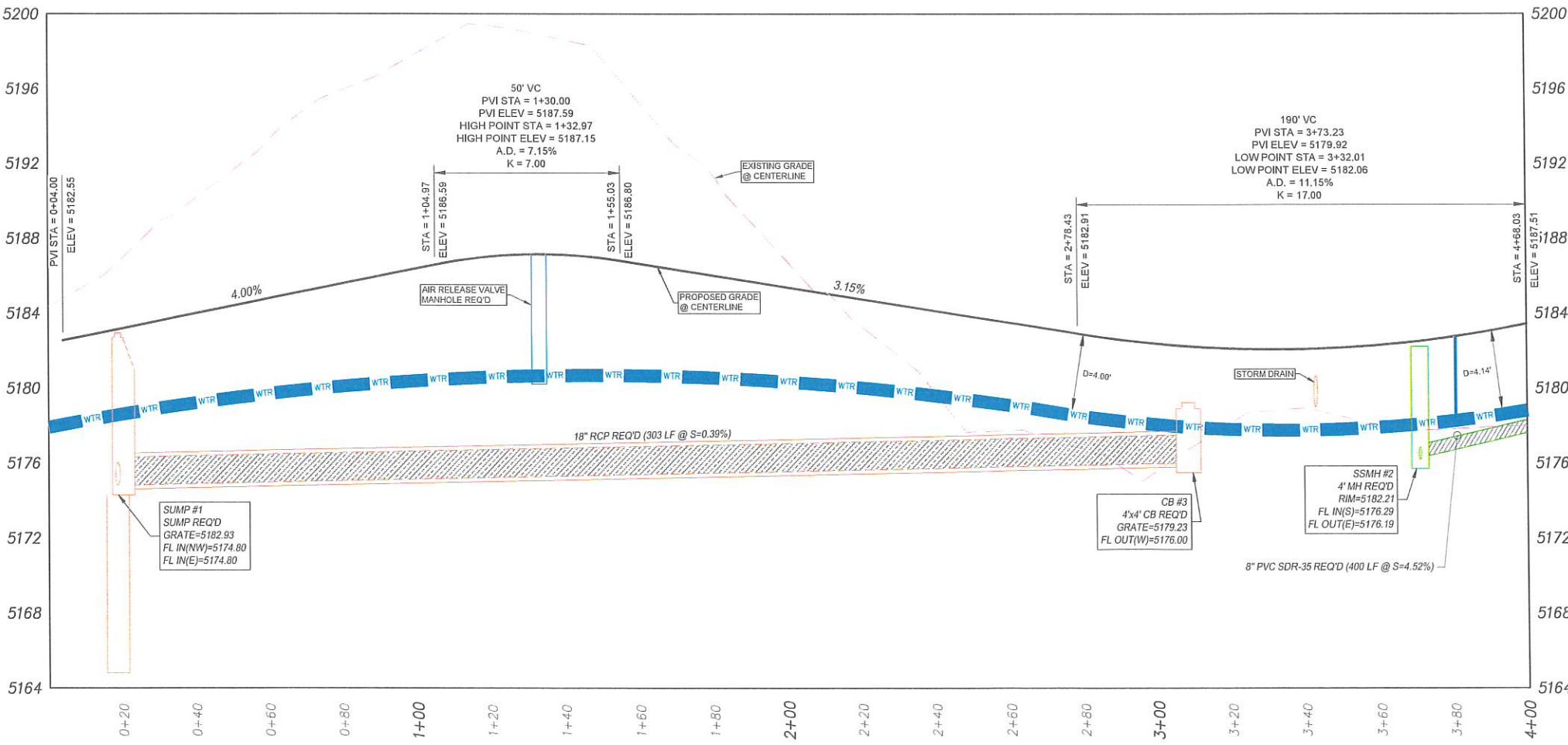


- LEGEND**
- PROPOSED BOUNDARY
 - EXISTING CURB & GUTTER
 - EXISTING SIDEWALK
 - EXISTING FENCE
 - EXISTING WATER LINE
 - EXISTING SEWER LINE
 - EXISTING STORM DRAIN LINE
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING TELECOM LINE
 - EXISTING GAS LINE
 - EXISTING 2' CONTOUR
 - EXISTING 10' CONTOUR
 - PROPOSED BUILDING
 - PROPOSED CURB & GUTTER
 - PROPOSED SIDEWALK
 - PROPOSED FENCE
 - PROPOSED WATER LINE
 - PROPOSED SEWER LINE
 - PROPOSED STORM DRAIN LINE
 - PROPOSED 2' CONTOUR
 - PROPOSED 10' CONTOUR
 - PROPOSED SAWCUT LINE

- ACRONYM DEFINITIONS**
- EG EXISTING GRADE
 - FG FINISHED GRADE
 - TBC TOP BACK OF CURB
 - TC TOP OF CONCRETE
 - TOW TOP OF WALL
 - BOW BOTTOM OF WALL

NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH GOVERNING AGENCY STANDARDS AND SPECIFICATIONS. IN THE ABSENCE OF PROJECT STANDARD AND SPECIFICATIONS APWA STANDARD AND SPECIFICATIONS SHALL GOVERN.
- CONTRACTOR SHALL RETAIN AND PROTECT ALL EXISTING IMPROVEMENTS UNLESS OTHERWISE NOTED. CONTRACTOR IS RESPONSIBLE TO REPAIR ALL SIDEWALK, PAVEMENT, GRAVEL, UTILITIES, LANDSCAPING, IRRIGATION, FENCING AND EXISTING IMPROVEMENTS DAMAGED AS PART OF CONSTRUCTION.
- ALL WORK SHALL COMPLY WITH THE PROJECT PLANS, PROJECT SPECIFICATIONS, AND PROJECT GEOTECHNICAL ENGINEERING REPORT, WHICHEVER IS THE MOST STRINGENT.
- CONTRACTOR IS RESPONSIBLE FOR PERFORMING WORK ON OR ADJACENT TO A PUBLIC ROAD TO PROVIDE, INSTALL, AND MAINTAIN APPROPRIATE TRAFFIC CONTROL DEVICES, AS WELL AS ANY ADDITIONAL TRAFFIC CONTROL DEVICES THAT MAY BE REQUIRED TO INSURE SAFE AND EFFICIENT MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE WORK AREA AND TO PROVIDE MAXIMUM PROTECTION AND SAFETY TO ROAD WORKERS.



BENCHMARK
NORTHWEST CORNER SECTION 26,
TOWNSHIP 9 SOUTH, RANGE 2 EAST
SALT LAKE BASE & MERIDIAN
BENCHMARK=5180.87
(MONUMENT FOUND)
NAD 83 COORDINATE



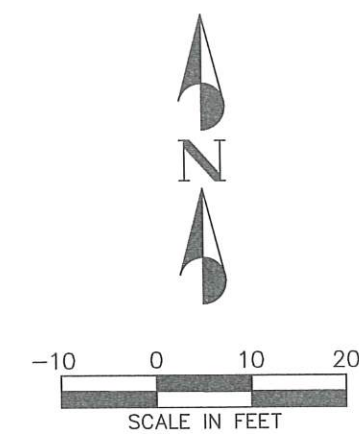
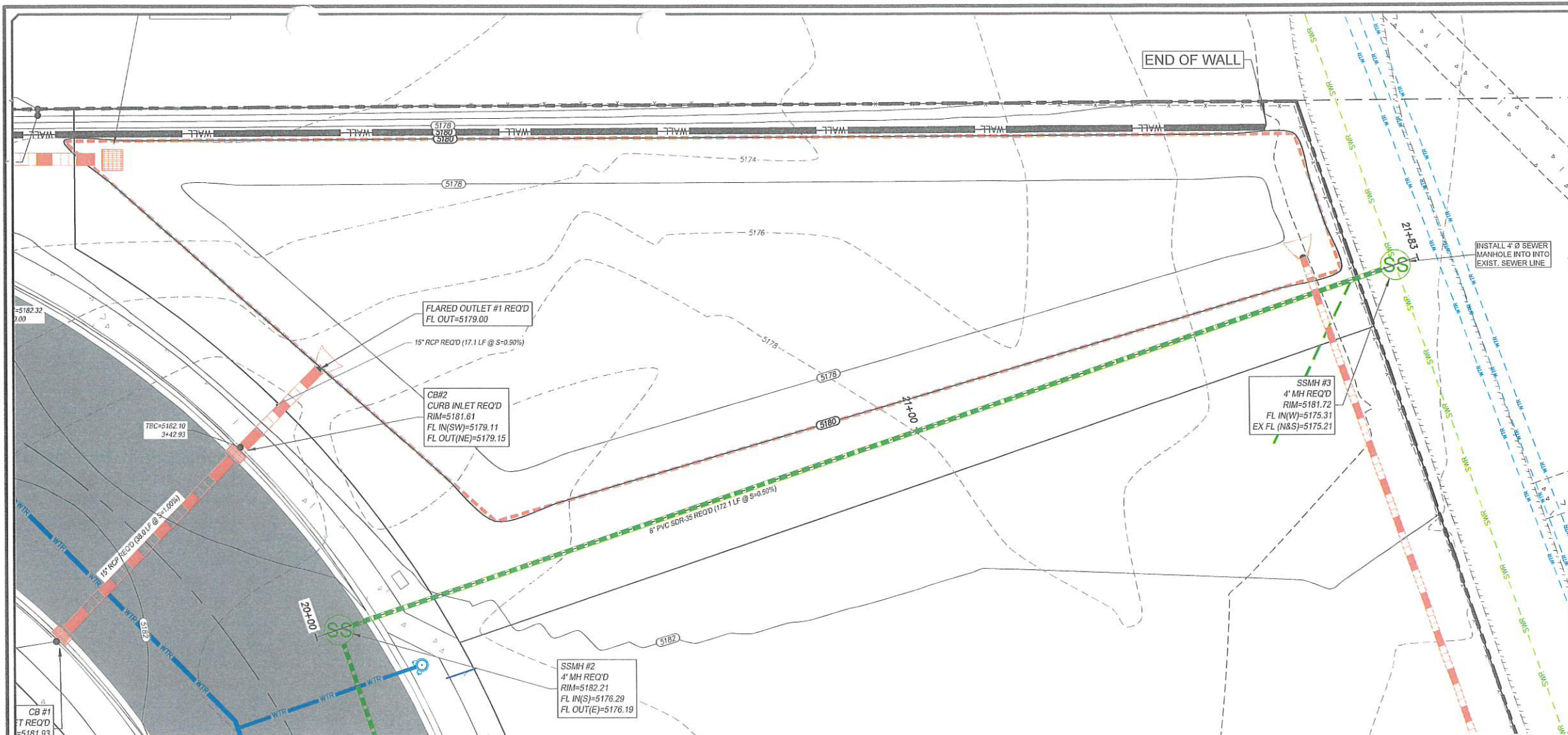
PEPG CONSULTING LLC
9270 SOUTH 300 WEST • SANDY, UT 84070
PHONE: (801) 562-2521 • FAX: (801) 562-2551
CIVIL ENGINEERING • LAND SURVEYING • PROJECT MANAGEMENT
GEOTECHNICAL • MATERIALS TESTING • INSPECTIONS

LIGHTHOUSE HEIGHTS
SUBDIVISION
ROAD PLAN & PROFILE
STA = 0+00 ~ 4+00
DWG 05-PLRPRO-01
DRAWING FILE
SEPTEMBER 1, 2021
LAST REVISED
PROJECT NUMBER
6698.2010

ELK RIDGE
CITY

PROFESSIONAL
ENGINEER
No. 754732
RYAN KITCHEN
9-1-21
STATE OF UTAH

SHEET NO. **C5.2**

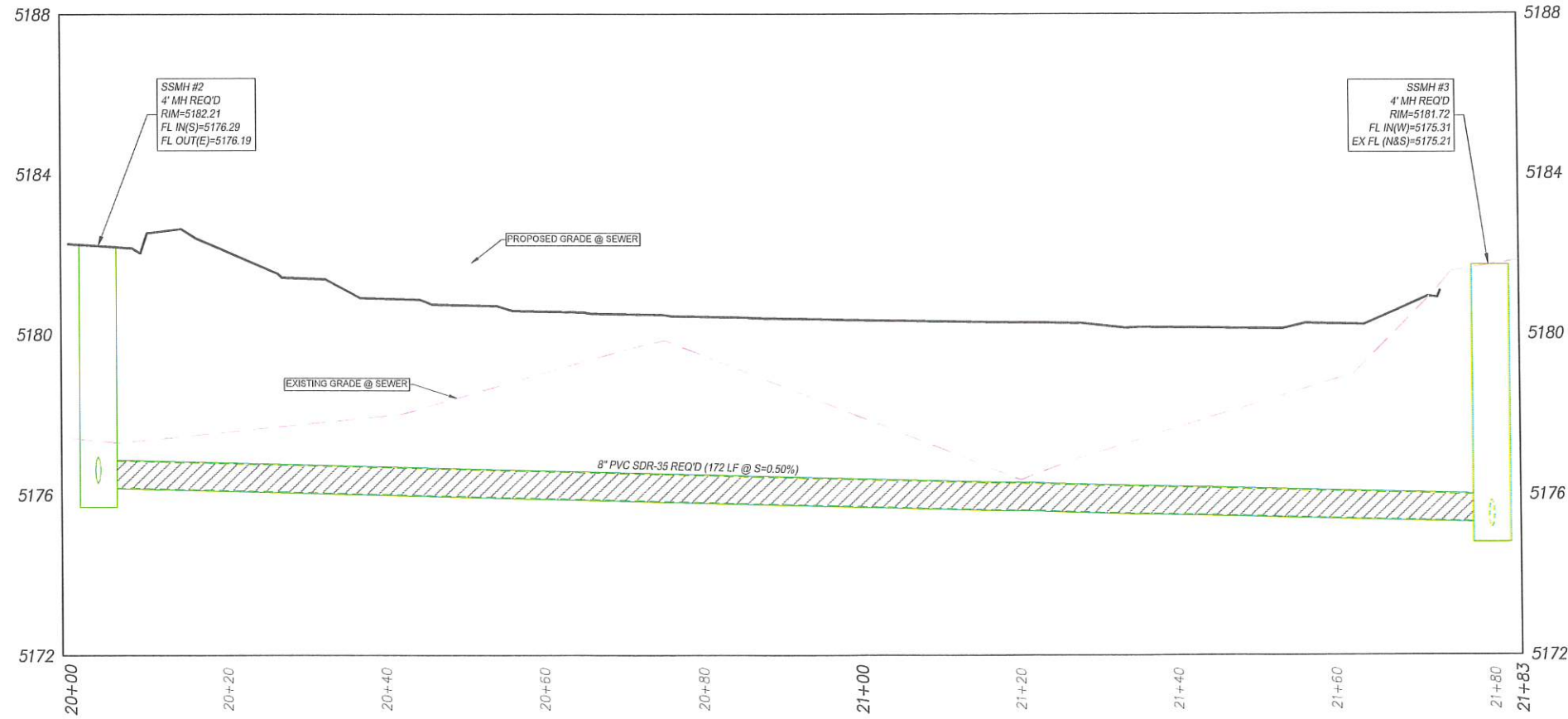


- LEGEND**
- PROPOSED BOUNDARY
 - EXISTING CURB & GUTTER
 - EXISTING SIDEWALK
 - EXISTING FENCE
 - EXISTING WATER LINE
 - EXISTING SEWER LINE
 - EXISTING STORM DRAIN LINE
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING TELECOM LINE
 - EXISTING GAS LINE
 - EXISTING 2' CONTOUR
 - EXISTING 10' CONTOUR
 - PROPOSED BUILDING
 - PROPOSED CURB & GUTTER
 - PROPOSED SIDEWALK
 - PROPOSED FENCE
 - PROPOSED WATER LINE
 - PROPOSED SEWER LINE
 - PROPOSED STORM DRAIN LINE
 - PROPOSED 2' CONTOUR
 - PROPOSED 10' CONTOUR
 - PROPOSED SAWCUT LINE

- ACRONYM DEFINITIONS**
- EG EXISTING GRADE
 - FG FINISHED GRADE
 - TBC TOP BACK OF CURB
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 - TOW TOP OF WALL
 - BOW BOTTOM OF WALL

NOTES

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BENCHMARK
NORTHWEST CORNER SECTION 26,
TOWNSHIP 9 SOUTH, RANGE 2 EAST
SALT LAKE BASE & MERIDIAN
BENCHMARK=5180.87
(MONUMENT FOUND)
NAD 83 COORDINATE



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PHONE: (801) 562-2521 • FAX: (801) 562-2551
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LIGHTHOUSE HEIGHTS SUBDIVISION
SEWER PLAN & PROFILE
STA = 20+00 ~ 21+83

SEPTEMBER 1, 2021
LAST REVISED

6895.2010
PROJECT NUMBER

DWG 05-PL&PRG-01
DRAWING FILE

ELK RIDGE CITY

Blue Stakes of UTAH811
Bluestakes.org

Professional Engineer
No. 754732
RYAN KITCHEN
9-1-21
STATE OF UTAH

SHEET NO. **C5.4**

NO.	DESCRIPTION	DATE	APP'D
1/21	PEPG		
	SURVEY BY:	RTD	
	DRAWN BY:	RTD	
	DESIGNED BY:	RLK	
	CHECKED BY:		
	SCALE:	1"=10'	

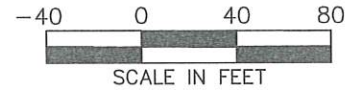


Diagram illustrating various boundary and infrastructure lines:

- PROPOSED BOUNDARY
- EXISTING CURB & GUTTER
- EXISTING SIDEWALK
- EXISTING FENCE
- PROPOSED LOT LINE
- PROPOSED CURB & GUTTER
- PROPOSED SIDEWALK
- PROPOSED FENCE
- PROPOSED SAWCUT LINE

3. THIS PLAN HAS BEEN PREPARED AS A GUIDE FOR THE INSTALLATION OF STORM WATER POLLUTION PREVENTION SYSTEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE COMPLIANCE WITH ALL U.P.D.E.S. PERMIT REQUIREMENTS AND TO ADJUST THE PLAN AS NECESSARY TO MEET SITE SURFACE WATER PROTECTION OBJECTIVES.
2. AT ALL TIME DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING ONSITE EROSION DUE TO WIND AND RUNOFF. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL FACILITIES SHOWN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DRAINAGE AND EROSION CONTROL FACILITIES AS REQUIRED. STREETS SHALL BE KEPT CLEAN OF DEBRIS FROM SITE TRAFFIC. IN ADDITION TO REGULAR CONTRACTOR INSPECTIONS, STREETS SHALL BE SWEEPED UPON CITY AND OWNER REQUEST.
4. CONTRACTOR SHALL USE VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES WILL ENTER OR EXIT THE SITE. CONTROL FACILITIES WILL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MOVED WHEN NECESSARY, AND REMOVED AT COMPLETION OF PROJECT.
5. ADDITIONAL EROSION CONTROL MEASURES MAY BE DUE TO UNFORESEEN PROBLEMS OR IF THE PLAN DOES NOT FUNCTION AS INTENDED. A REPRESENTATIVE OF THE CITY OR COUNTY PUBLIC WORKS DEPARTMENT MAY REQUIRE ADDITIONAL CONTROL DEVICES UPON INSPECTION OF PROPOSED FACILITIES.
6. CONTRACTOR SHALL BE RESPONSIBLE OF ALL SWPPP SYSTEMS, CITY INSPECTOR MUST APPROVE THE REMOVAL OF ALL SWPPP DEVICES.
7. CONTRACTOR MAY REMOVE TEMPORARY INLET PROTECTION DEVICES AND SILT FENCING AFTER PAVEMENT SURFACES ARE COMPLETED AND/OR VEGETATION IS RE-ESTABLISHED.
8. EROSION CONTROL STRUCTURES BELOW SODDED AREAS MAY BE REMOVED ONCE SOD AND FINAL LANDSCAPING IS IN PLACE. EROSION CONTROL STRUCTURES BELOW SEEDDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION (70% MIN.). EROSION CONTROL STRUCTURES IN PAVED AREAS SHALL REMAIN IN PLACE UNTIL PAVING IS COMPLETE, AND LANDSCAPE DRAINAGE ON TO PAVEMENT IS COMPLETE.
9. THE SWPPP BOOK AND UPDES PERMIT WILL BE PROVIDED BY THE CONTRACTOR PRIOR TO WORK.

- 1 VEHICLE TRACKING PAD REQ'D
- 2 INLET PROTECTION REQ'D
- 3 SILT FENCE REQ'D

BENCHMARK
NORTHWEST CORNER SECTION 26,
TOWNSHIP 9 SOUTH, RANGE 2 EAST
SALT LAKE BASE & MERIDIAN
BENCHMARK=5180.87
(MONUMENT FOUND)
NAD 83 COORDINATE

[illegible]

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CIVIL ENGINEERING • LAND SURVEYING • PROJECT MANAGEMENT
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HOUSE HEIGHTS

SUBDIVISION

EROSION CONTROL

1. Erosion Control Measures: The project shall implement the following erosion control measures during construction:

- Install silt fences and sediment basins at all construction entrances and exits.
- Use erosion control blankets on exposed soil areas.
- Construct and maintain sediment basins to capture sediment from runoff.
- Minimize exposed soil areas by scheduling construction activities to avoid rainy seasons.
- Stabilize exposed soil areas with seed or mulch as soon as possible.

SEPTEMBER 1, 2021	6898.2010	DWG\06--EROS-01
LAST REVISED	PROJECT NUMBER	DRAWING FILE

ELK RIDGE
CITY

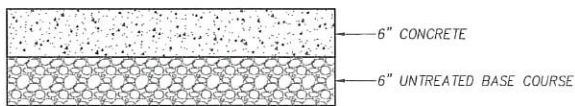


SHEET NO. C6.0

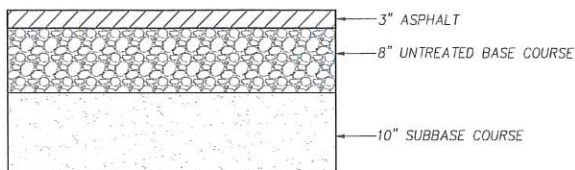
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EROSION CONTROL

344
FE. 1-1
344
FE. 1-1

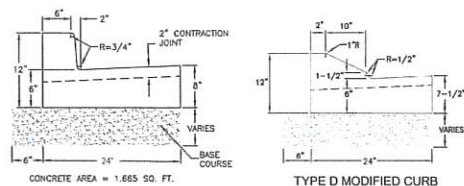


CONCRETE SIDEWALK



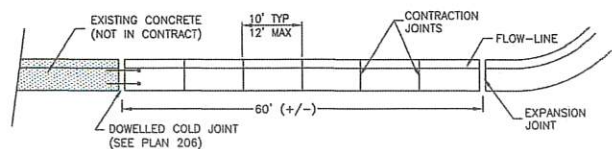
ASPHALT SECTION

DETAIL-1
PAVEMENT SECTIONS
(NOT TO SCALE)



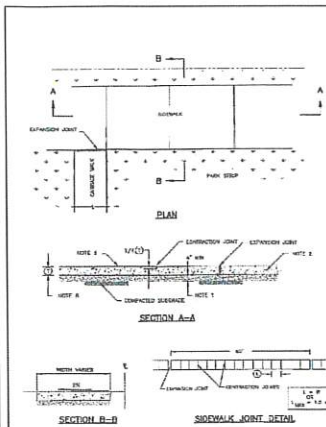
Type A

TYPE B MODIFIED CURB



JOINT DETAIL

DETAIL-2
CURB AND GUTTER
(NOT TO SCALE)

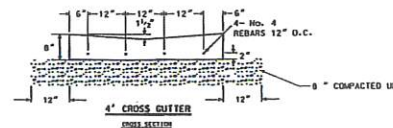


Concrete sidewalk

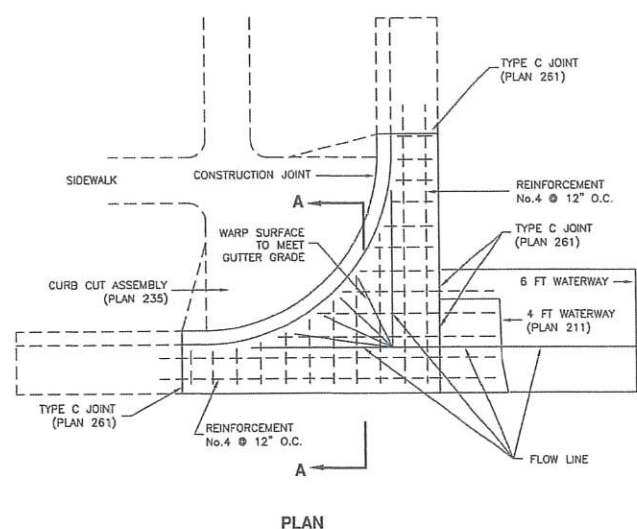
DETAIL-3
CONCRETE SIDEWALK STANDARD
(NOT TO SCALE)

CONCRETE SIDEWALK STANDARD

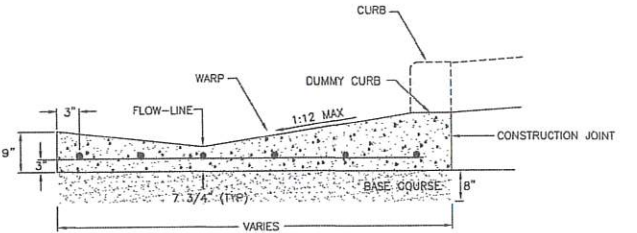
- UNTREATED BASE COURSE: Provide material specified in APWA Section 02260. Do not use gravel or stone mix. Place per APWA Section 02222. Compact per APWA Section 02224 to a modified proctor density of 95-percent or greater. Maximum lift thickness is 8-inches before compaction.
- CONCRETE: Class 4000 per APWA Section 03304. Place per APWA Section 02770. Cure per APWA Section 03300.
 - If necessary, provide concrete that achieves design strength in less than 7 days. Use caution, however, as splinter cracks develop if air temperature exceeds 50 degrees F.
 - Unless shown otherwise, provide 1/2 inch radius on concrete edges exposed to public view.
- FINISH: Finish to true on longitudinal grades under 0.5% and rough hair broom on longitudinal grades over 0.5%.
- DEPTH OF SIDEWALK (T):
 - New construction: Minimum 6" in residential zones, 8" in non-residential zones.
 - Removal and replacement construction: Match existing.



DETAIL-4
4" WATERWAY
(NOT TO SCALE)

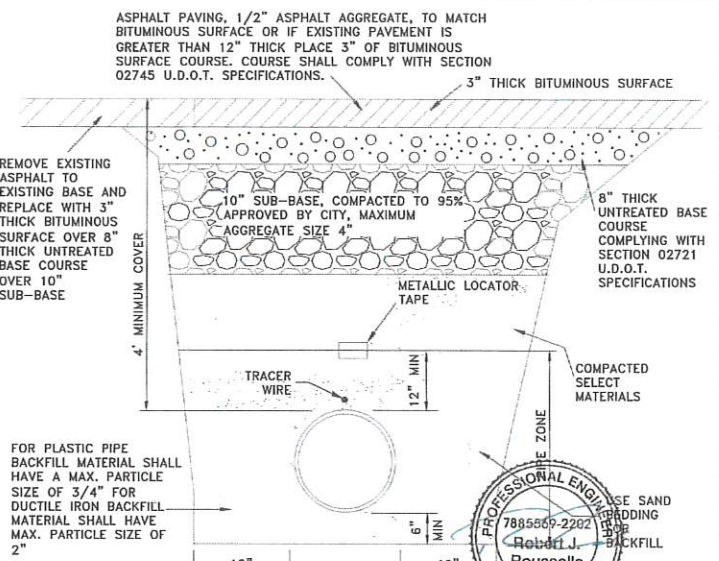


PLAN



SECTION A-A

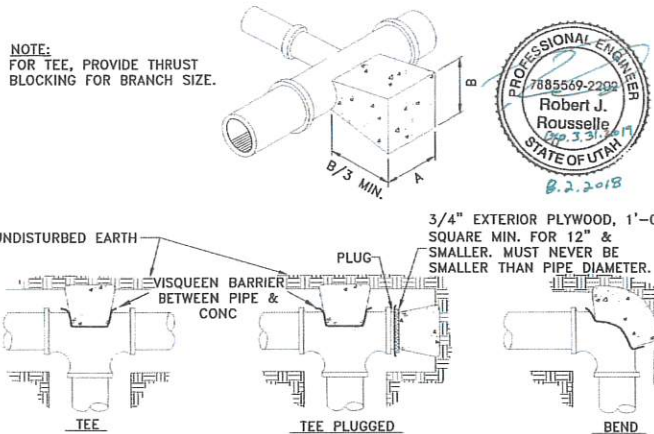
DETAIL-5
WATERWAY TRANSITION STRUCTURE
(SEE APWA PLAN NO. 213)



- NOTES:
- PIPES & FITTINGS SHALL BE LEAD FREE.
 - ASBESTOS CEMENT PIPE SHALL NOT BE ALLOWED.
 - WATER MAINS & SEWER LINES SHALL NOT BE INSTALLED IN THE SAME TRENCH.
 - ALL PIPES, FITTINGS & APPURTENANCES SHALL BE NSF-61 CERTIFIED AND CONFORM TO AWWA STANDARDS C104-A21.4 THROUGH C550, LATEST EDITIONS AND C900 THROUGH C905, LATEST EDITIONS. [UAC R309-550-6 (3)]
 - ALL NEW OR REPLACED WATER LINES SHALL BE FLUSHED & DISINFECTED PER AWWA STANDARD C651 LATEST EDITION.
 - MATERIAL THICKNESS MAY CHANGE AS DIRECTED BY THE CITY ENGINEER BASED UPON FINDINGS AND RECOMMENDATIONS IN GEOTECHNICAL REPORT.
 - FOR WATER METERS NOT CONNECTED TO FIRE HYDRANTS, THE MINIMUM LINE SIZE SHALL BE 4" IN DIAMETER, UNLESS THEY SERVE PICNIC SITES, PARKS, SEMI-DEVELOPED CAMPS, PRIMITIVE CAMPS, OR ROADWAY REST-STOP. MINIMUM WATER MAIN SIZE SERVICING A FIRE HYDRANT LATERAL SHALL BE 8 INCHES IN DIAMETER UNLESS A HYDRAULIC ANALYSIS INDICATES THAT REQUIRED FLOW AND PRESSURES CAN BE MAINTAINED BY 6" LINES. [UAC R309-550-5(4)]
 - ALL TYPES OF INSTALLED PIPE SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA C600 (LATEST EDITION).
 - UNDER NO CIRCUMSTANCES SHALL THE PIPE OR ACCESSORIES BE DROPPED INTO THE TRENCH.
 - CONSIDERATION SHALL BE GIVEN TO THE MATERIALS TO BE USED WHEN CORROSIVE SOILS OR WATERS WILL BE ENCOUNTERED. [UAC R309-550-5 (9)]

LOCATED IN SURFACED ROAD
DETAIL-6
UTILITY TRENCH FOR WATER MAIN
(SEE ELK RIDGE CITY STANDARDS AND SPECS)

NOTE:
FOR TEE, PROVIDE THRUST
BLOCKING FOR BRANCH SIZE.

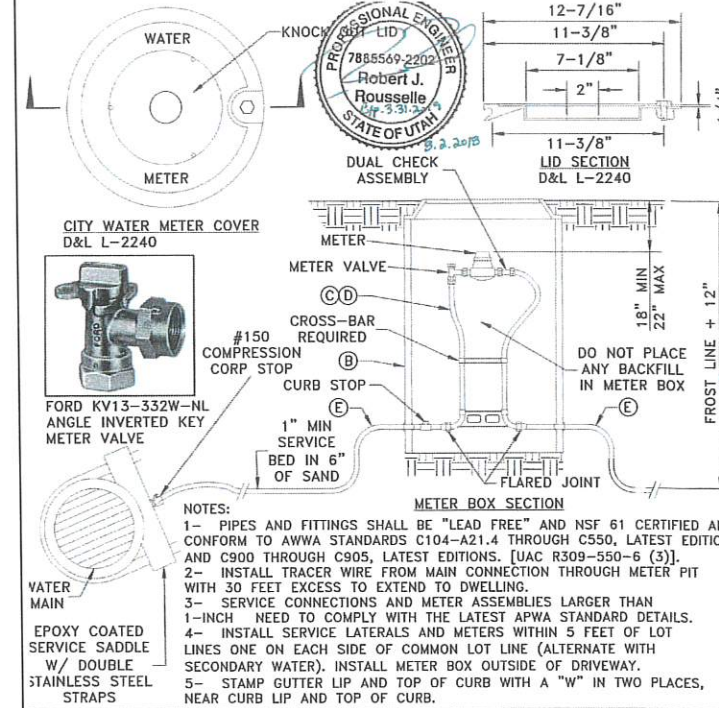


FITTING SIZES	TEES & PLUGS		90° BENDS		45° BENDS & "Y" S		22 1/2° BENDS	
	A	B	A	B	A	B	A	B
4"	1'-6"	1'-6"	1'-6"	1'-9"	1'-3"	0'-6"	1'-0"	0'-6"
6"	2'-0"	1'-0"	2'-0"	2'-0"	1'-3"	1'-6"	1'-0"	1'-5"
8"	2'-0"	1'-6"	2'-3"	2'-3"	1'-8"	1'-8"	1'-0"	1'-3"
10"	2'-6"	2'-3"	2'-9"	2'-10"	2'-3"	1'-10"	1'-3"	2'-0"
12"	3'-0"	2'-9"	3'-6"	3'-3"	2'-6"	2'-4"	2'-0"	1'-6"
14"	3'-5"	3'-0"	4'-0"	3'-8"	3'-6"	2'-4"	2'-0"	2'-3"
16"	4'-0"	3'-6"	5'-0"	4'-0"	3'-6"	3'-0"	2'-6"	2'-3"
18"	4'-0"	4'-3"	6'-0"	4'-0"	4'-0"	3'-3"	2'-9"	2'-6"
20"	5'-0"	4'-3"	6'-0"	5'-0"	4'-3"	4'-0"	3'-0"	2'-9"
24"	6'-0"	5'-3"	8'-0"	5'-6"	6'-0"	4'-0"	4'-0"	3'-0"

NOTES:

- THIS TABLE IS BASED ON 200 P.S.I. MAIN PRESSURE AND 2000 P.S.F. SOIL BEARING PRESSURE. ADJUST BEARING AREAS IN ACCORDANCE WITH SOIL CONDITIONS AND PRESSURES ENCOUNTERED.
- USE POLYETHYLENE ENCASUREMENT BETWEEN CONCRETE AND PIPE.
- REFER TO CONCRETE STANDARD SPECIFICATIONS.
- THE "THRUST BLOCKING DETAILS" IN NO WAY LIMITS THE LOCATION OR SIZE OF ADDITIONAL BLOCKING WHEN SO WARRANTED OR REQUIRED BY THE ENGINEER.
- THRUST BLOCKS NEED TO BE INSPECTED BY CITY PRIOR TO BACKFILL.

DETAIL-7
THRUST BLOCK
(SEE ELK RIDGE CITY STANDARDS AND SPECS)



LEGEND		
No	ITEM	DESCRIPTION
(A)	FRAME AND COVER	CAST IRON COVER (GRASS)
(B)	METER BOX (21" DIAMETER) (30" TO 36" DEEP)	WHITE CORRUGATED PE
(C)	1" METER YOKE	DUAL CHECK ASSEMBLY REQUIRED
(D)	1" METER YOKE	OPTIONAL BACKFLOW PROTECTION PER AGENCY REQUIREMENTS
(E)	1" SERVICE LINE	HDPE IPS SDR 9

DETAIL-8
SERVICE CONNECTION & METER ASSEMBLY
(SEE ELK RIDGE CITY STANDARDS AND SPECS)

NO.	DESCRIPTION	SCALE	DATE	APP'D
		1"=1'		

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GEOTECHNICAL • MATERIALS TESTING • INSPECTIONS

LIGHTHOUSE HEIGHTS
SUBDIVISION
TYPICAL SECTIONS
& DETAILS

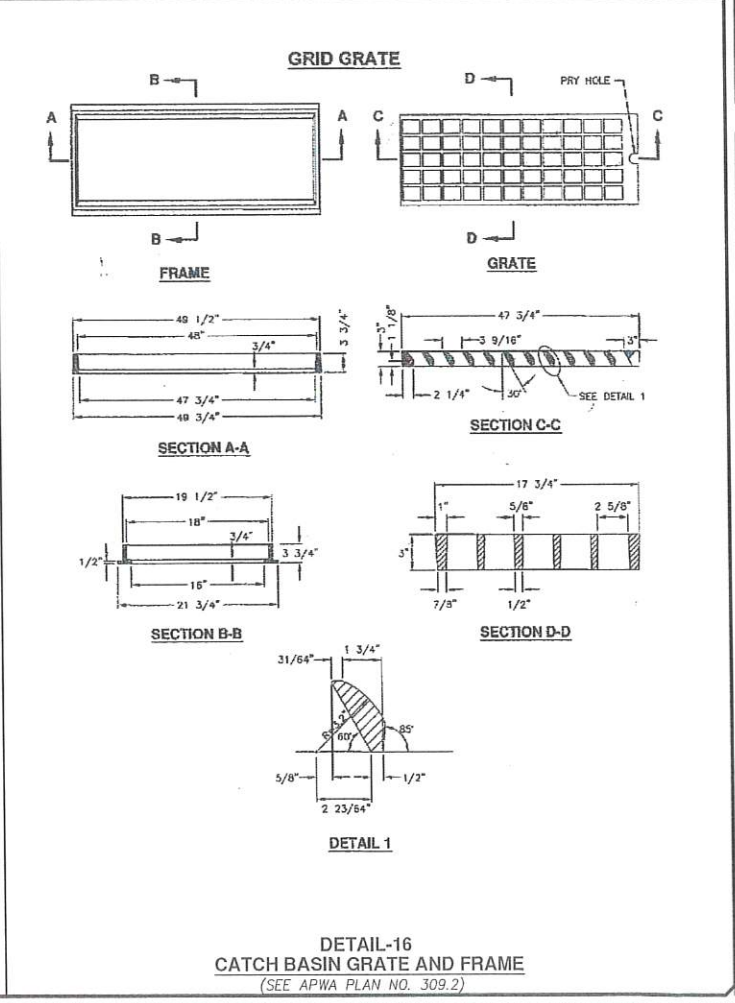
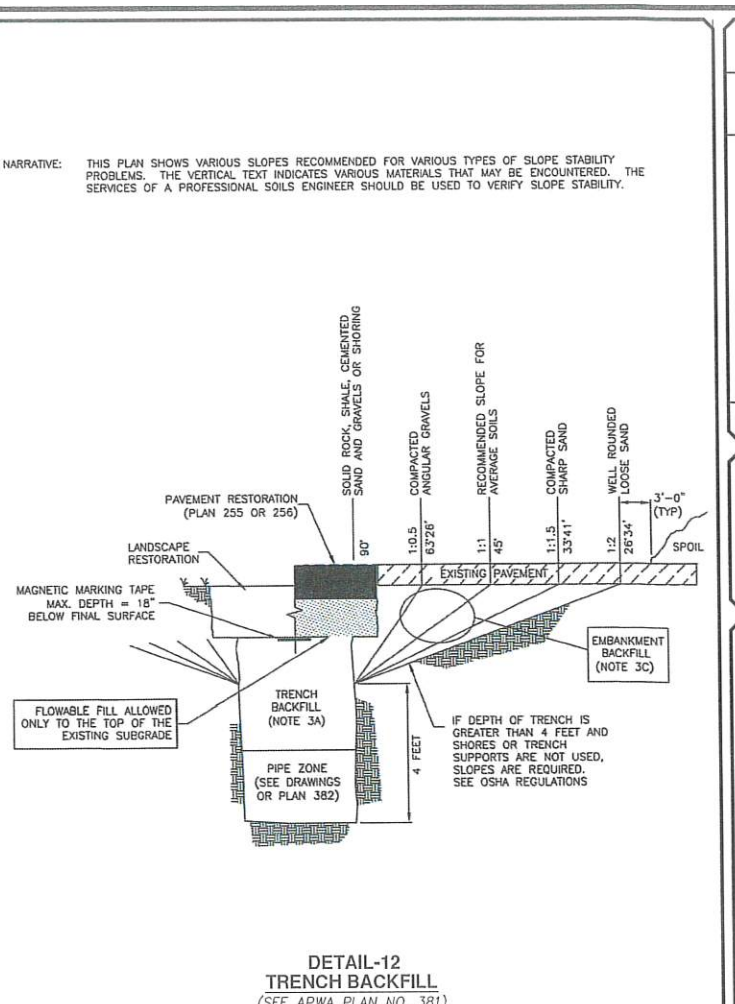
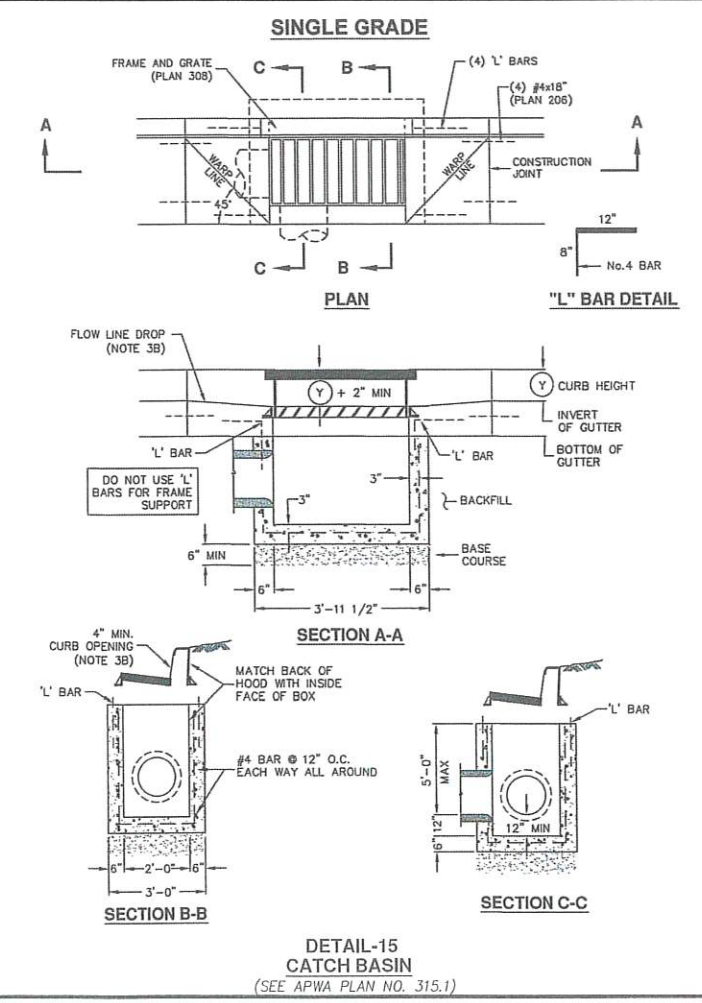
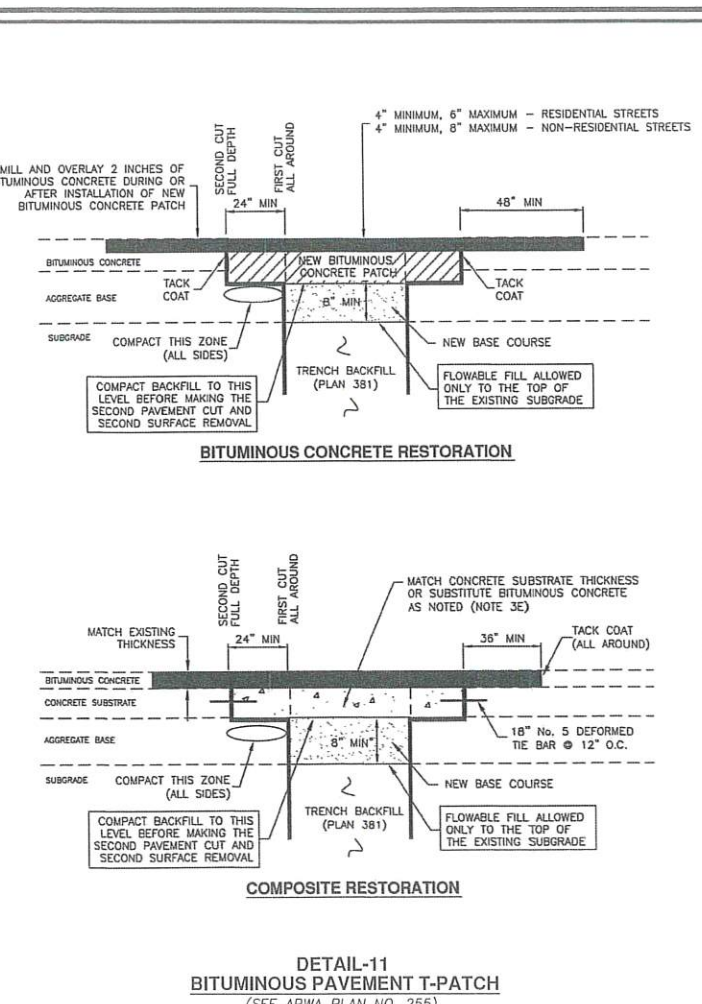
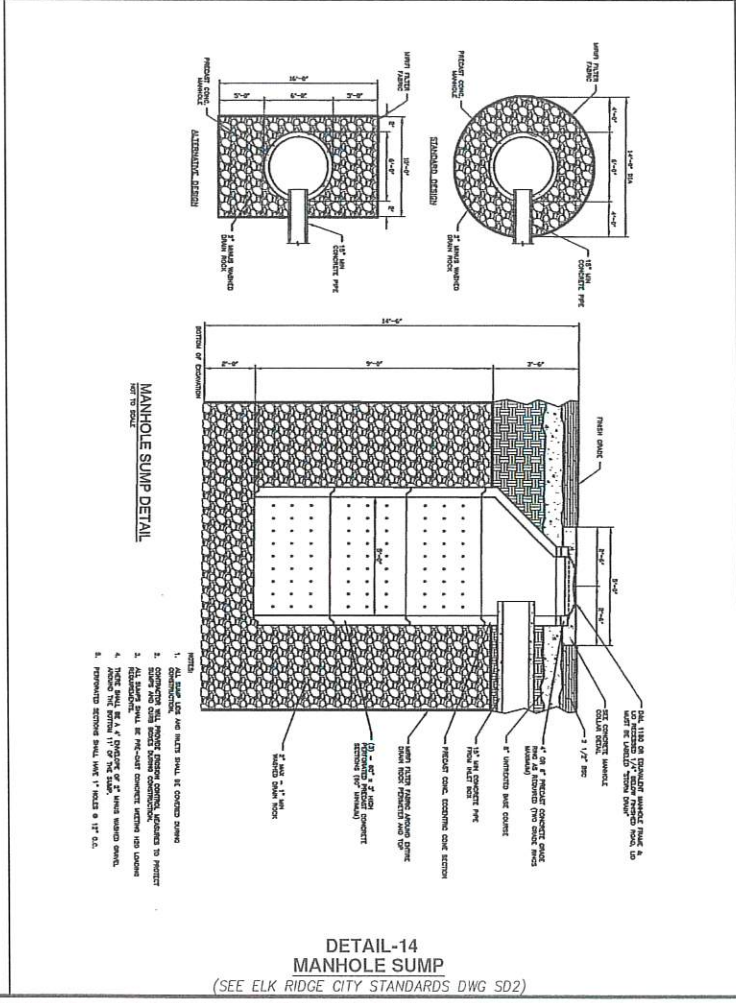
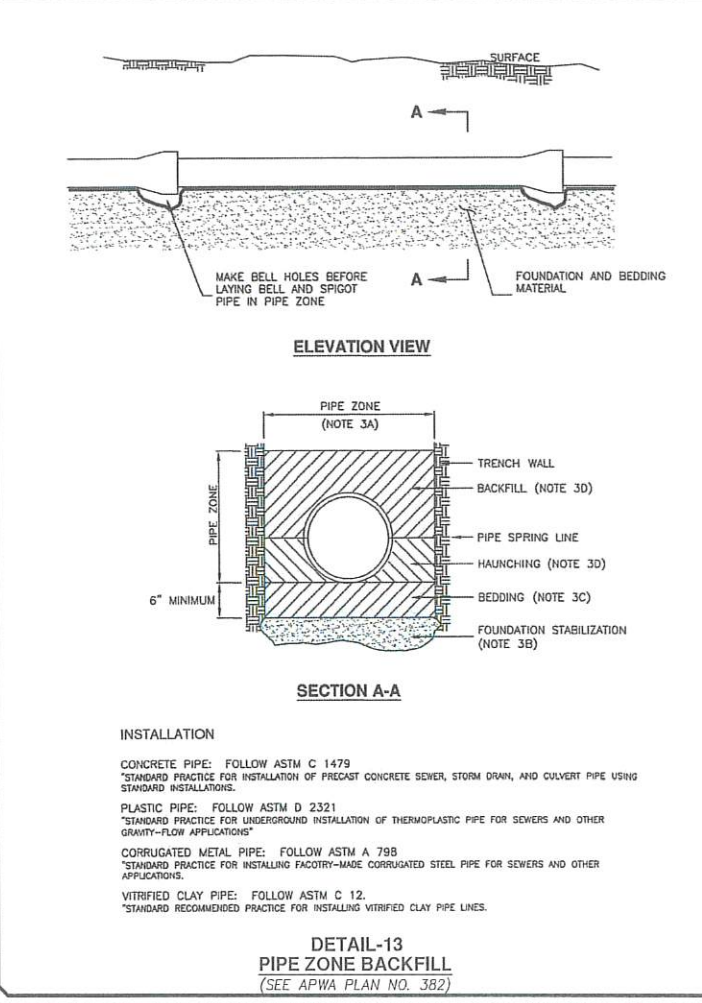
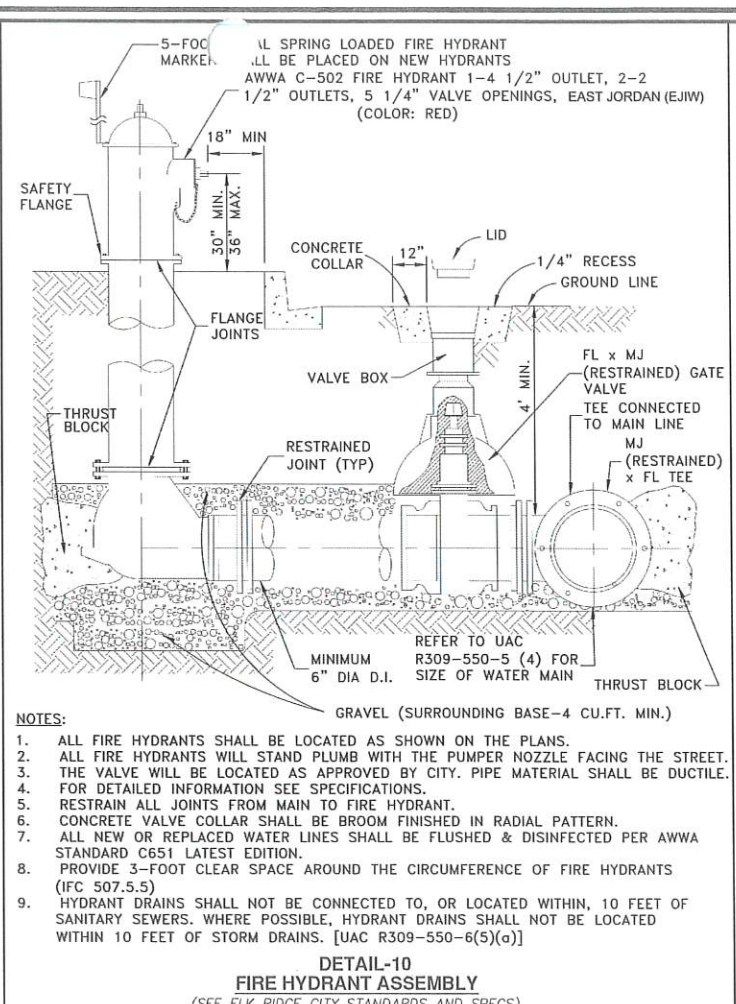
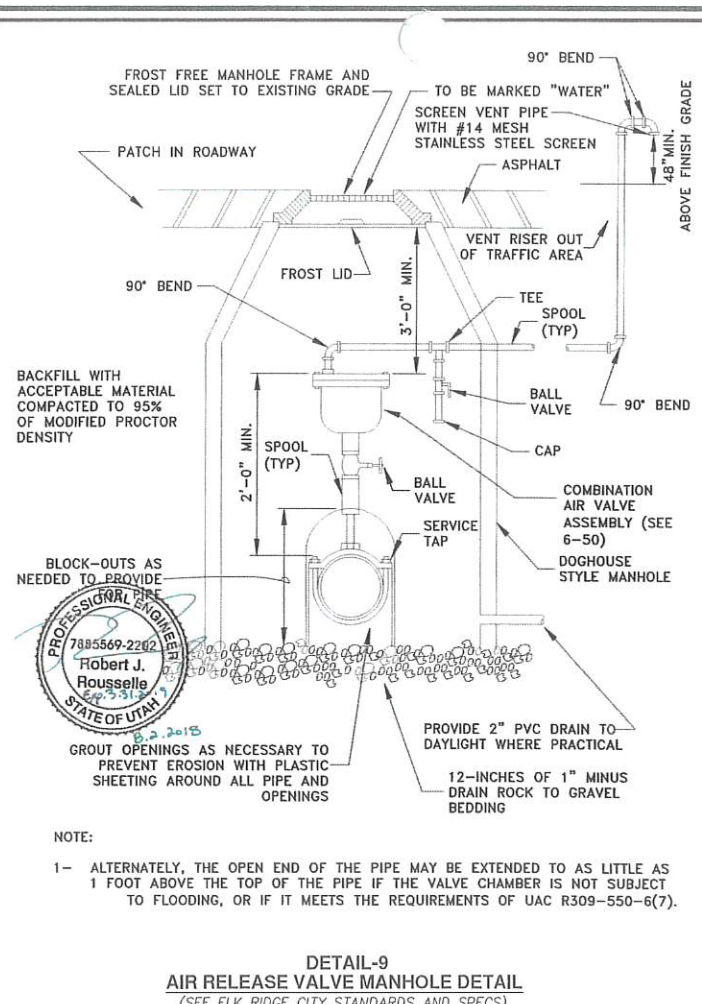
SEPTEMBER 1, 2021
LAST REVISED

DWG 07-DETAILS-01
DRAWING FILE

ELK RIDGE
CITY

PROFESSIONAL ENGINEER
No. 7644732
RYAN KITCHEN
9-1-21
STATE OF UTAH

SHEET NO. **C7.0**



PEPG CONSULTING LLC
9270 SOUTH 300 WEST • SANDY, UT 84070
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CIVIL ENGINEERING • LAND SURVEYING • PROJECT MANAGEMENT
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**LIGHTHOUSE HEIGHTS
SUBDIVISION**
TYPICAL SECTIONS
& DETAILS

SEPTEMBER 1, 2021
6888.2010
LAST REVISED

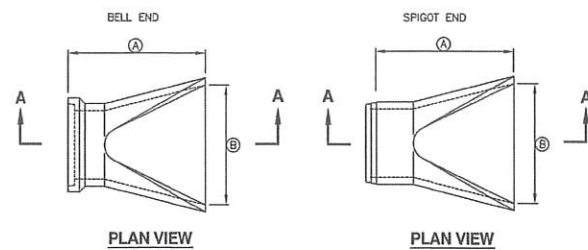
DWG 07-DETAILS-01
DRAWING FILE

**ELK RIDGE
CITY**

PROFESSIONAL ENGINEER
No. 754732
RYAN KITCHEN
9-1-21
STATE OF UTAH

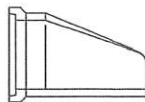
SHEET NO. **C7.1**

ROUND WITH FLARE



PLAN VIEW

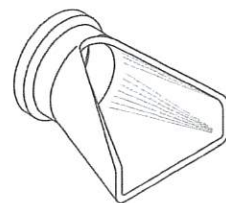
PLAN VIEW



SECTION A-A



END VIEW

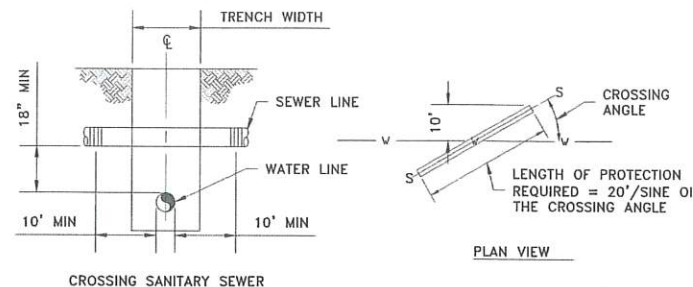


OBLIQUE

PIPE SIZE	DIMENSION	Ø
18"	73"	36"
24"	73"	48"
30"	73"	60"
36"	97"	72"
42"	98"	78"
48"	98"	84"

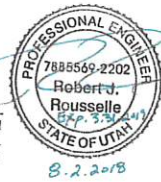
NOTE: MINIMUM DIMENSIONS ARE SHOWN. ACTUAL SIZES MAY BE SLIGHTLY LARGER

DETAIL-17
PIPE OUTFALL - FLARED OUTLET
(SEE APWA PLAN NO. 323.1)



CROSSING SANITARY SEWER

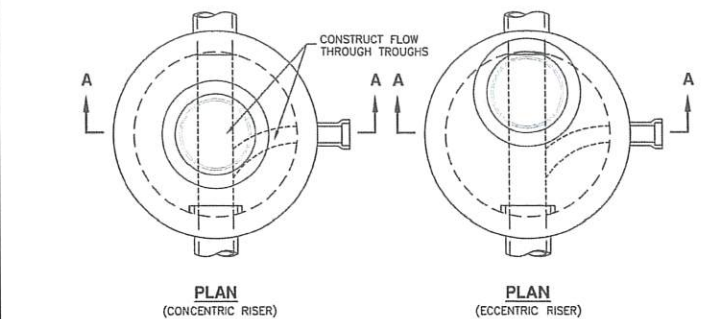
FOR NEW SANITARY SEWER LINE CONSTRUCTION WHEN SANITARY SEWER LINE IS ABOVE THE WATER LINE, INSTALL SEWER LINE WITH ONE OF THE FOLLOWING; CAST IRON, DUCTILE IRON, GALVANIZED STEEL, OR PROTECTED STEEL PIPE WITH MECHANICAL JOINTS FOR THE MINIMUM DISTANCE OF 10 FEET ON EITHER SIDE OF WATER CROSSING. THE LINES SHALL BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING. (SEE NOTE #1)



GENERAL NOTES:

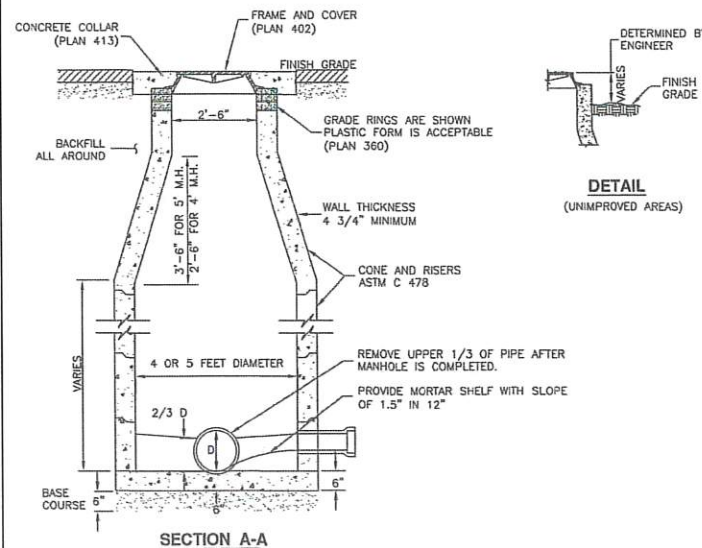
- 1- WATER AND SANITARY SEWER SEPARATIONS SHALL COMPLY WITH UAC R309-550-7.
- 2- IN ALL CASES, PROVIDE 18" MIN. OF VERTICAL SEPARATION BETWEEN WATER, SANITARY SEWER LINES. WHEN SEPARATION CAN NOT BE OBTAINED, AN EXCEPTION CAN BE APPLIED FOR WITH ADDITIONAL MEASURES TO PROTECT PUBLIC HEALTH, IN ACCORDANCE WITH UAC R309-105-6(2)(B).
- 3- IF WATER LINE IS 18" OR GREATER ABOVE THE SEWER LINE OR STORM DRAIN LINE, NO SPECIAL CONSTRUCTION IS REQUIRED.
- 4- ALL PROVISIONS ABOVE SHALL APPLY FOR CROSSINGS OTHER THAN 90° TO THE POINT AT WHICH THE 10' SEPARATION BETWEEN THE WATER AND SANITARY SEWER LINE IS ACHIEVED (10'/SINE OF CROSSING ANGLE). FOR PURPOSES OF SEPARATIONS AND PROTECTION OF THE WATER SUPPLY, A RECLAIMED WATER LINE SHALL BE CONSIDERED A SANITARY SEWER LINE.
- 5- WHEN A SANITARY SEWER FORCE MAIN CROSSES UNDER AN EXISTING WATER MAIN, ALL PORTIONS OF THE SEWER FORCE MAIN WITHIN 10 FEET (HORIZONTALLY) OF THE WATER MAIN SHALL BE ENCLOSED IN A CONTINUOUS SLEEVE.
- 7- WHEN A NEW WATER MAIN CROSSES OVER AN EXISTING SEWER FORCE MAIN, THE WATER MAIN SHALL BE CONSTRUCTED OF PIPE MATERIALS WITH A MINIMUM RATED WORKING PRESSURE OF 200 PSI OR EQUIVALENT PRESSURE RATING.

DETAIL-18
SANITARY SEWER CROSSINGS
(SEE ELK RIDGE CITY STANDARDS AND SPECS)



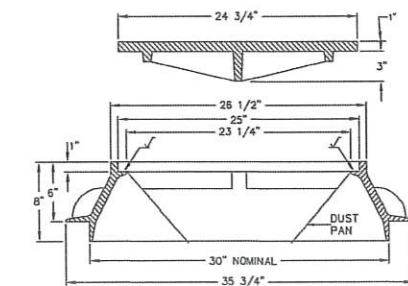
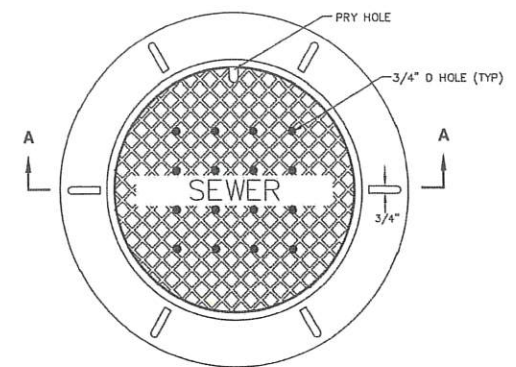
PLAN
(CONCENTRIC RISER)

PLAN
(ECCENTRIC RISER)



SECTION A-A

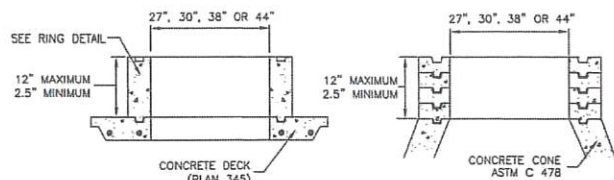
DETAIL-19
SANITARY SEWER MANHOLE
(SEE APWA PLAN NO. 411)



SECTION A-A

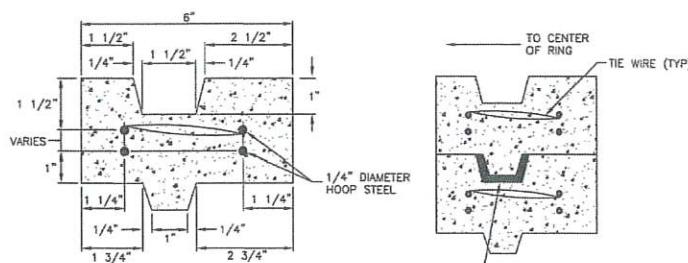
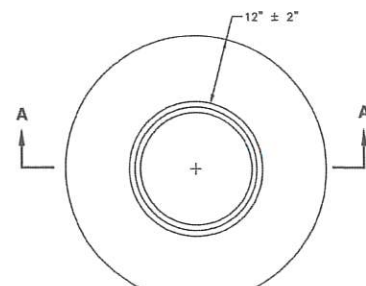
DETAIL-20
30" FRAME AND COVER
(SEE APWA PLAN NO. 402)

GRADE RING



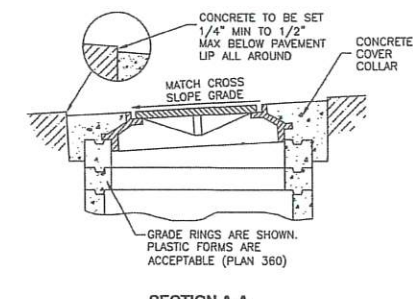
DECK SECTION

CONE SECTION



RING DETAIL

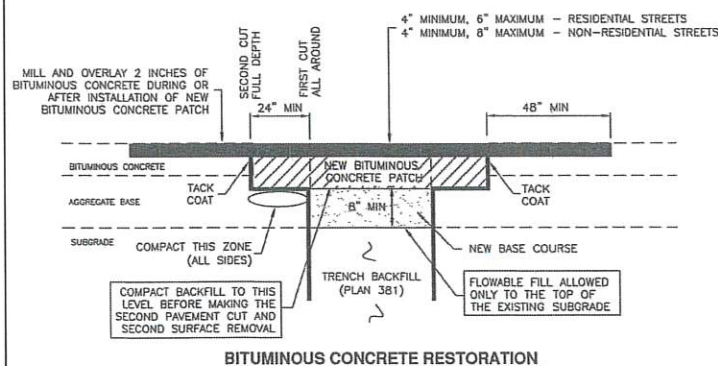
GASKET DETAIL



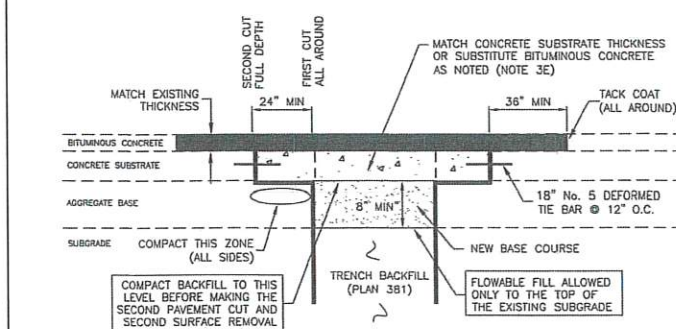
SECTION A-A

DETAIL-21
RAISE FRAME TO GRADE
(SEE APWA PLAN NO. 360)

DETAIL-22
COVER COLLAR FOR SANITARY SEWER MANHOLE
(SEE APWA PLAN NO. 413)

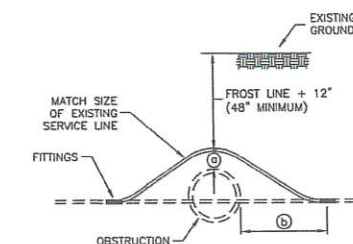


BITUMINOUS CONCRETE RESTORATION

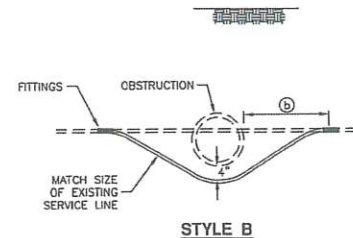


COMPOSITE RESTORATION

DETAIL-23
BITUMINOUS PAVEMENT T-PATCH
(SEE APWA PLAN NO. 255)



STYLE A



STYLE B

	OBSTRUCTION	SEWER MAIN	OTHER
Ø	18"	12" MIN.	
Ø	10'-0"	12" MIN.	

DETAIL-24
WATER SERVICE LINE LOOP
(SEE APWA PLAN NO. 542)

PEPG CONSULTING LLC
9270 SOUTH 300 WEST • SANDY, UT 84070
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LIGHTHOUSE HEIGHTS
SUBDIVISION

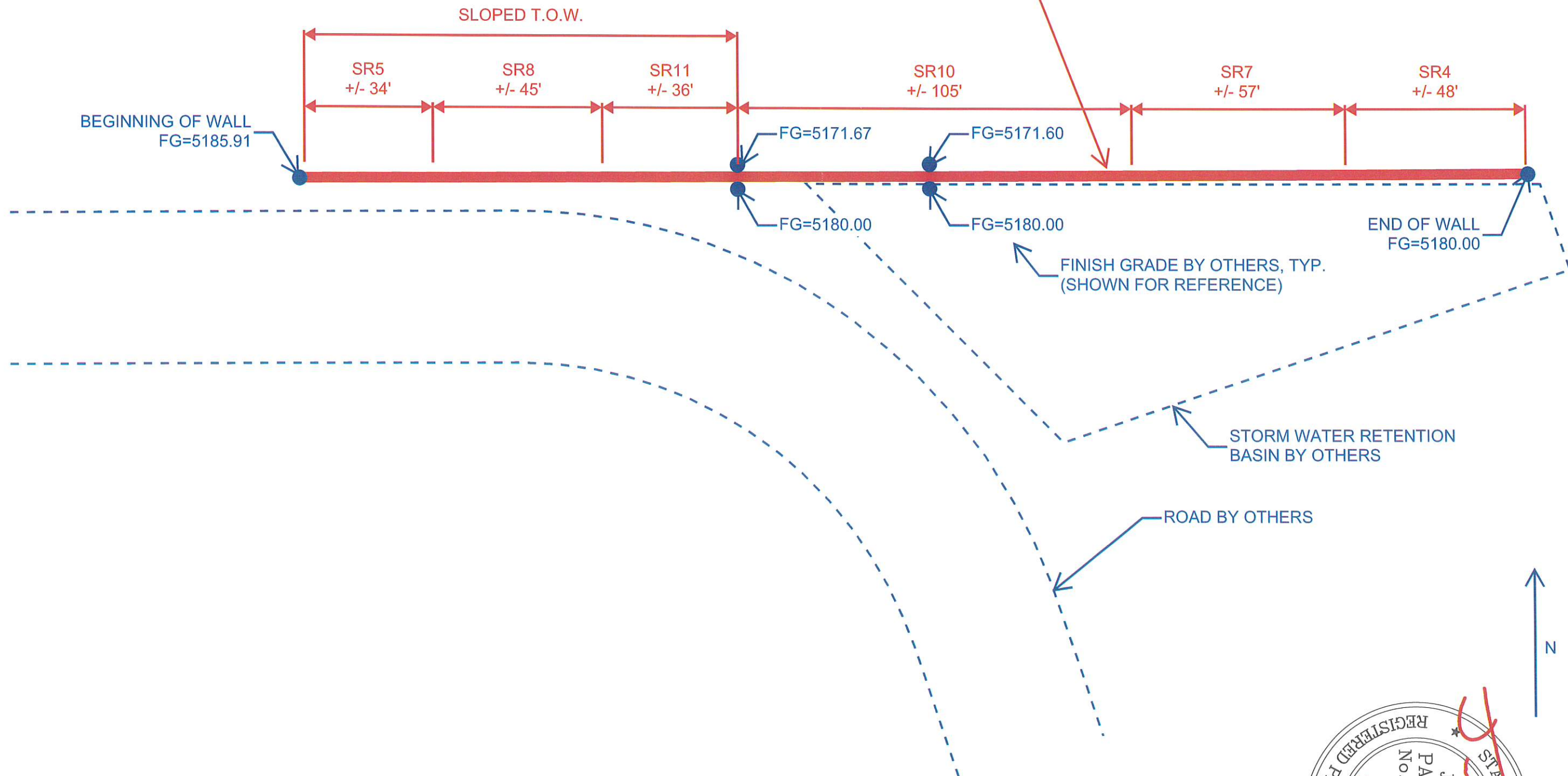
TYPICAL SECTIONS
& DETAILS

ELK RIDGE
CITY



SHEET NO. **C7.2**

CONCRETE SITE RETAINING WALL PER CORRESPONDING DETAILS. WALL LOCATION AND FINISHED GRADE BY OTHERS. DIMENSIONS SHOWN TO FOOTING STEPS ARE APPROXIMATE; CONTRACTOR SHALL VERIFY ON SITE BASED ON FINISHED GRADE. ADDITIONAL, INTERMEDIATE FOOTING STEPS MAY OCCUR AT CONTRACTORS DISCRETION



SITE RETAINING WALL PLAN
SCALE: 1" = 40'

