

REVISIONS			
	DESCRIPTION	DATE	SHEETS AFFECTED

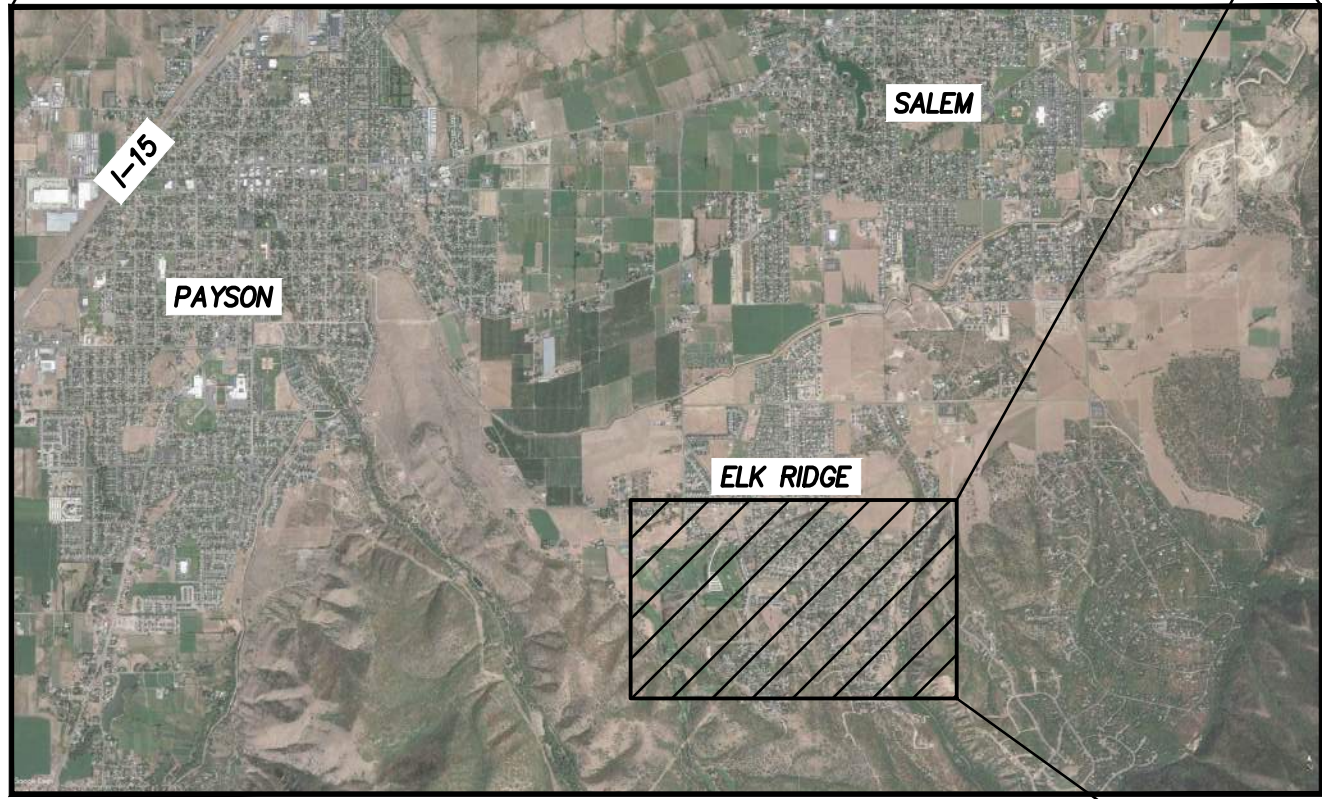
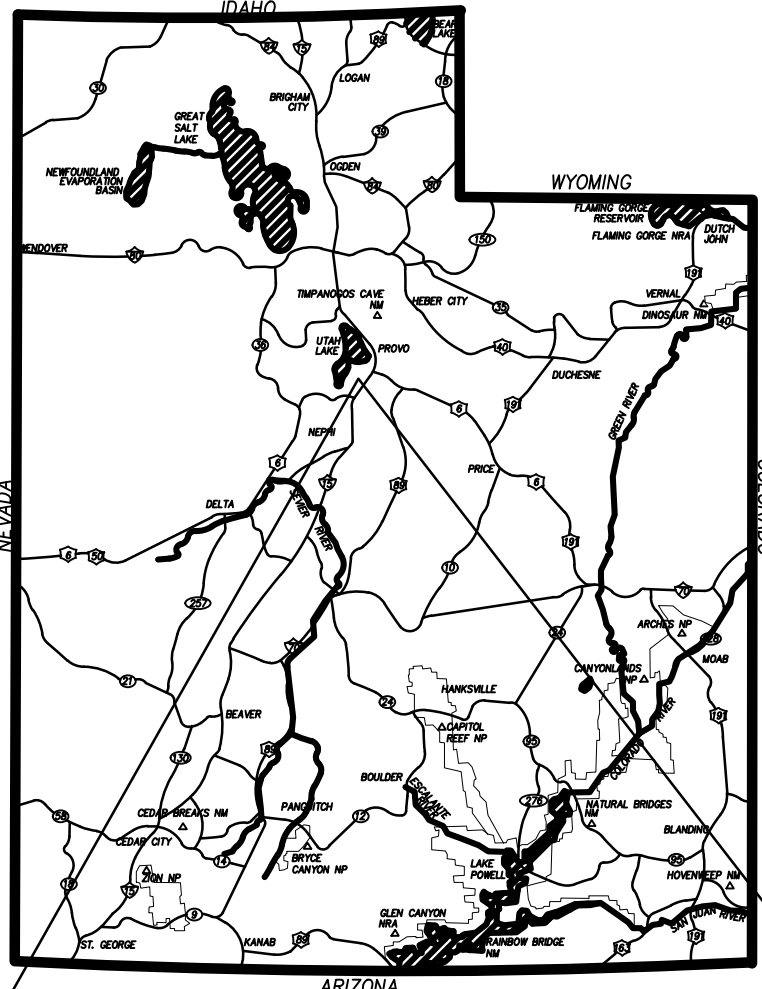
# LIGHTHOUSE HEIGHTS SUBDIVISION

## 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  
AUGUST 11, 2021

INDEX OF SHEETS	
C0.0	TITLE SHEET
C1.0	DEMOLITION PLAN
C2.0-C2.1	SITE PLAN
C3.0	UTILITY PLAN
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

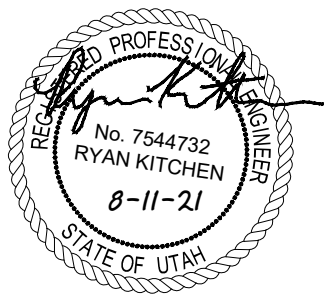


VICINITY MAP  
NOT TO SCALE

**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

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

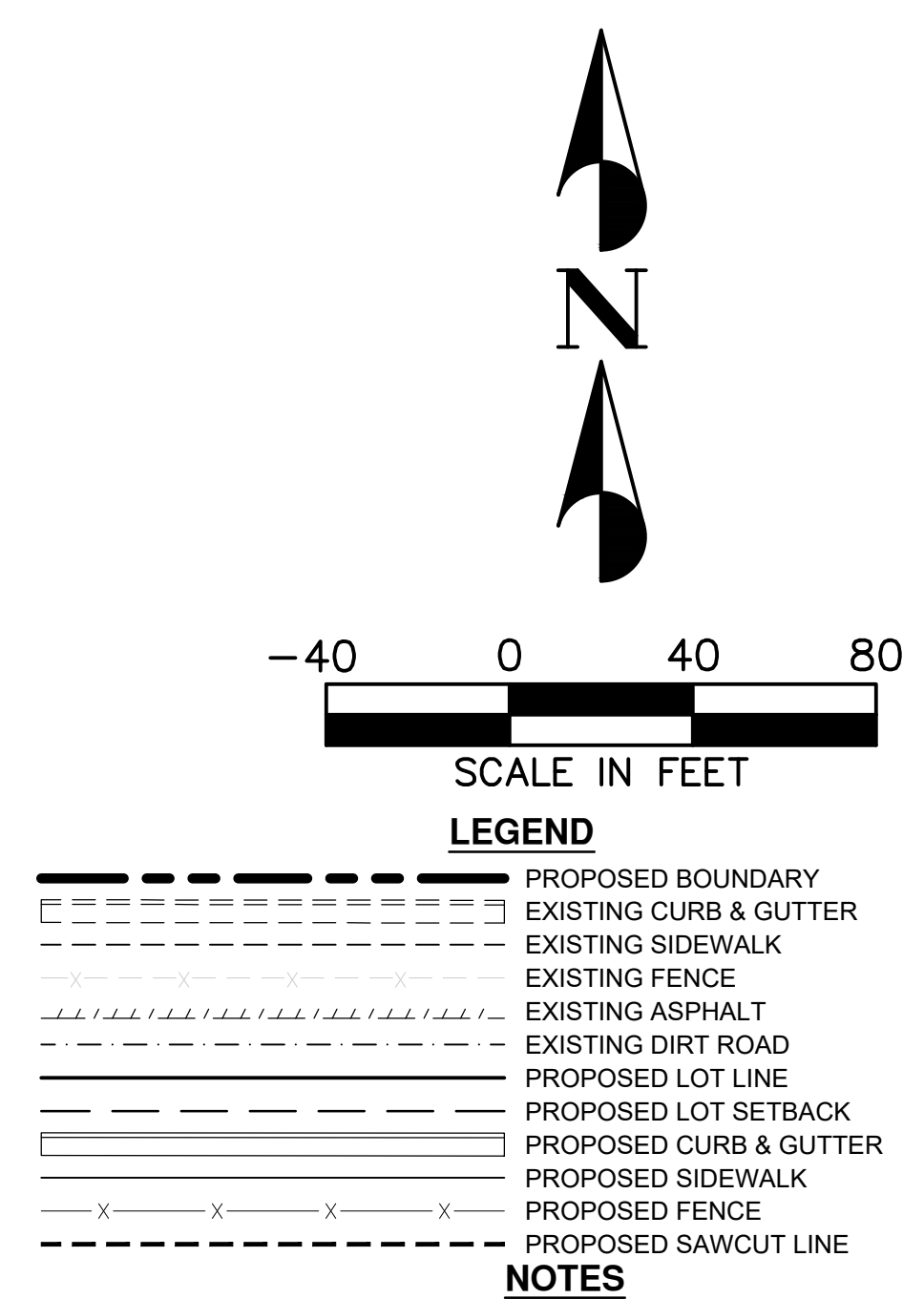
CIVIL ENGINEERING • LAND SURVEYING • PROJECT MANAGEMENT  
GEOTECHNICAL • MATERIALS TESTING • INSPECTIONS





SHEET NO. **C1.0**





1. 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.
2. 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.
3. ALL CURB DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
4. ALL WORK SHALL COMPLY WITH THE PROJECT PLANS, PROJECT SPECIFICATIONS, AND PROJECT GEOTECHNICAL ENGINEERING REPORT, WHICHEVER IS THE MOST STRINGENT.
5. ALL STRIPING, PAVEMENT MARKINGS, AND SIGNAGE TO COMPLY WITH THE CURRENT M.U.T.C.D. EDITION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR LOCAL CODE, WHICHEVER IS MORE STRINGENT.
6. 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.
7. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN CONTACT ENGINEER FOR CLARIFICATION.
8. 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.
9. PRIOR TO BEGINNING CONSTRUCTION OF ANY BUILDINGS, A FIRE FLOW TEST OF THE NEW HYDRANTS SHALL BE CONDUCTED TO VERIFY THE ACTUAL FIRE FLOW AVAILABLE FOR THIS PROJECT. THE FIRE PREVENTION DIVISION OF THIS DEPARTMENT SHALL WITNESS THIS TEST AND SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE TEST.
10. ALL LOTS ARE RESPONSIBLE TO RETAIN ALL WATER RUNOFF TO WITHIN THEIR PROPERTY LOT THROUGH SWALES OR RETENTION POND, DEPRESSED AREA.
11. ALL FINAL EARTHWORK MUST MEET GEOTECHNICAL SPECIFICATIONS.
12. ALL BUILDING FOOTINGS MUST BE PLACED ON NATIVE SOIL.
13. CLEAR AND GRUB PRIOR TO CONSTRUCTION.
14. EARTHWORK BEING ADDED TO EXISTING GRADE MUST BE DONE IN 6 TO 12 INCH LIFTS AND COMPACTED TO 95% UNTIL FINAL GRADE IS MET.
15. EXCAVATION AND EARTHWORK SHALL BE OBSERVED BY A GEOTECH. THE GEOTECH SHALL PROVIDE A REPORT OF ONSITE OBSERVATIONS INCLUDING A MAP OF THE SITE DETAILING WHERE SPECIFIC FIELD CONDITIONS WERE PROVIDED.

BENCHMARK  
NORTHWEST CORNER SECTION 26,  
TOWNSHIP 9 SOUTH, RANGE 2 EAST  
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(MONUMENT FOUND)  
NAD 83 COORDINATE

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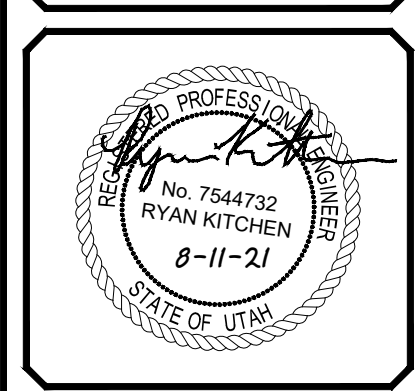
ORIG. DATE :	1/21
SURVEY BY :	PEPG
DRAWN BY :	RTD
DESIGNED BY :	RTD
CHECKED BY :	RUK
SCALE :	1"=40'

**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

<b>LIGHTHOUSE HEIGHTS</b>	
<b>SUBDIVISION</b>	
<i>SITE</i>	
<i>PHASING</i>	
AUGUST 11, 2021	6996 2010
LAST REVISED	PROJECT NUMBER
DWG 02-SITE-01	
DRAWING FILE	

ELK RIDGE  
CITY



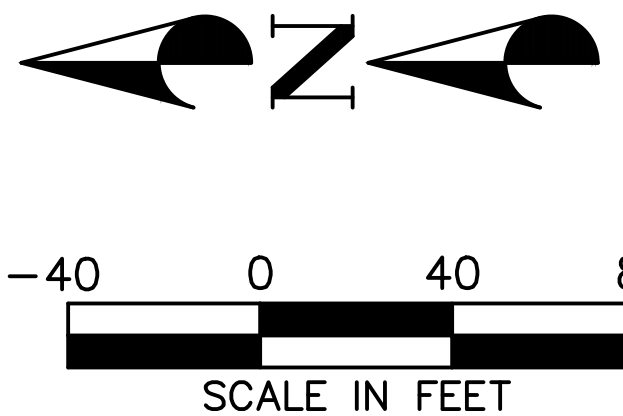
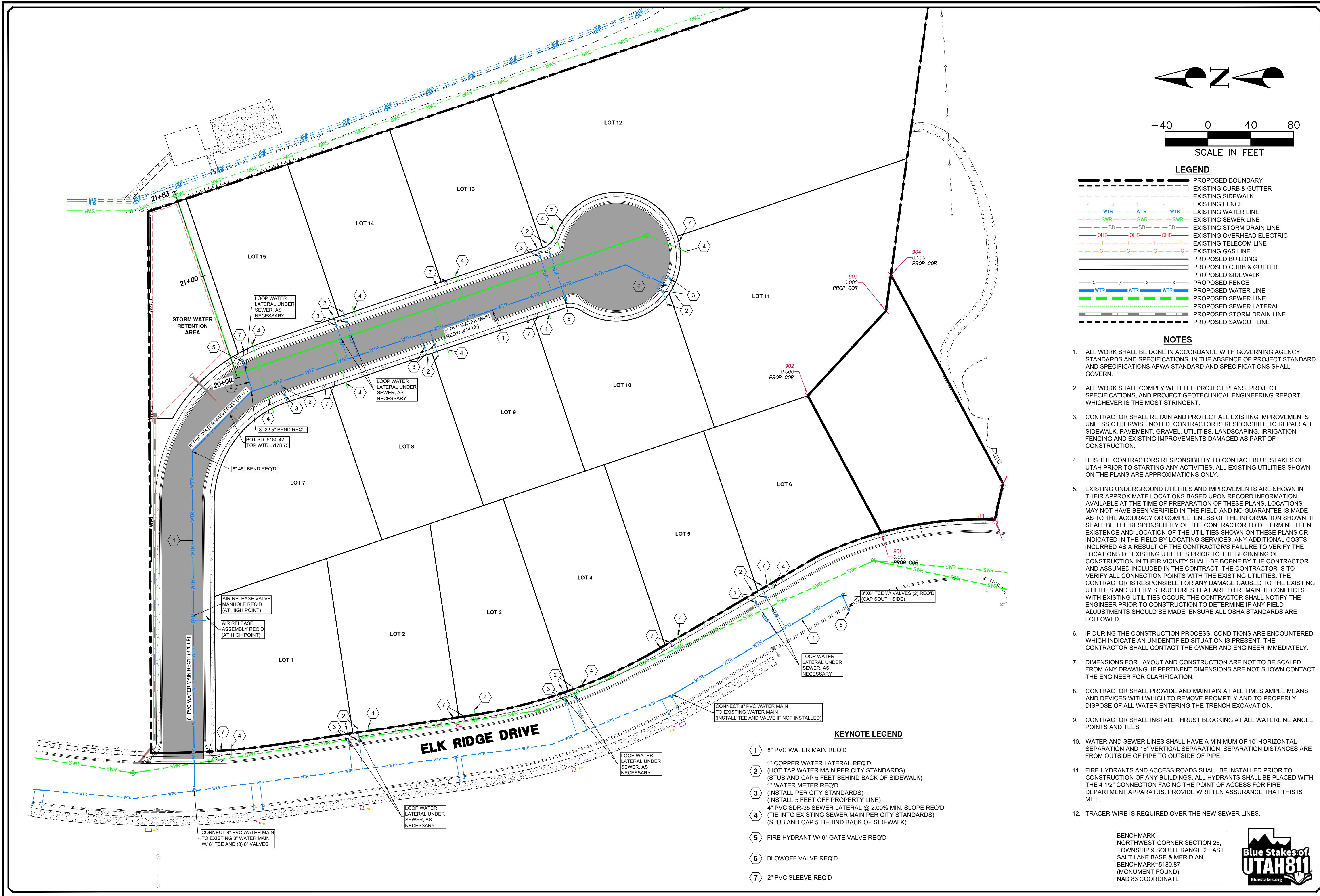
SHEET NO. **C2.0**





SHEET NO. **C2.1**





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
	PROPOSED BUILDING
	PROPOSED CURB & GUTTER
	PROPOSED SIDEWALK
	PROPOSED FENCE
	PROPOSED WATER LINE
	PROPOSED SEWER LINE
	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.
  - IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT BLUE STAKES OF UTAH PRIOR TO STARTING ANY ACTIVITIES. ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATIONS ONLY.
  - EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THEN EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE. ENSURE ALL OSHA STANDARDS ARE FOLLOWED.
  - 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.

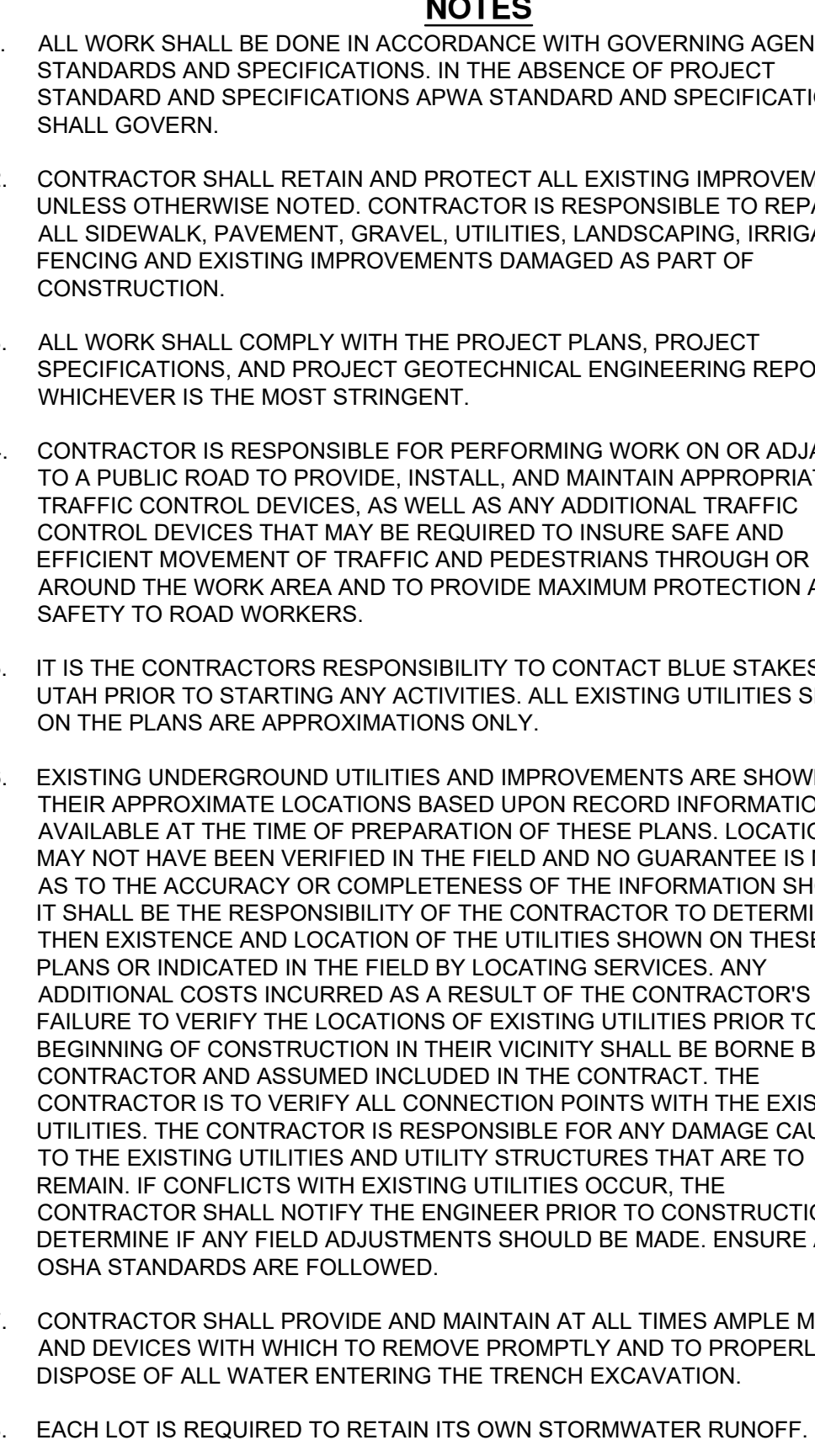
- KEYNOTE LEGEND**
- 1 8" PVC WATER MAIN REQ'D
  - 2 1" COPPER WATER LATERAL REQ'D (HOT TAP WATER MAIN PER CITY STANDARDS) (STUB AND CAP 5 FEET BEHIND BACK OF SIDEWALK)
  - 3 1" WATER METER REQ'D (INSTALL PER CITY STANDARDS) (INSTALL 5 FEET OFF PROPERTY LINE)
  - 4 4" PVC SDR-35 SEWER LATERAL @ 2.00%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



1/21		PEPG		RTD		RTD		RLK		APPD	
ORIG. DATE :		SURVEY BY :		DRAWN BY :		DESIGNED BY :		CHECKED BY :		SCALE :	
9/27/2010		SANDY, UT 84070		PHONE: (801) 562-2521		FAX: (801) 562-2551		CIVIL ENGINEERING - LAND SURVEYING - PROJECT MANAGEMENT		GEOTECHNICAL - MATERIALS TESTING - INSPECTIONS	
<b>PEPG CONSULTING LLC</b>											
LIGHTHOUSE HEIGHTS SUBDIVISION UTILITY PLAN											
ELK RIDGE CITY											
AUGUST 11, 2021 LAST REVISED											
PROJECT NUMBER 6596.2010											
DWG. 03-UTIL-01 DRAWING FILE											
SHEET NO. <b>C3.0</b>											





Blue Stakes of  
**UTAH811**  
Bluestakes.org

SHEET NO. **C4.0**



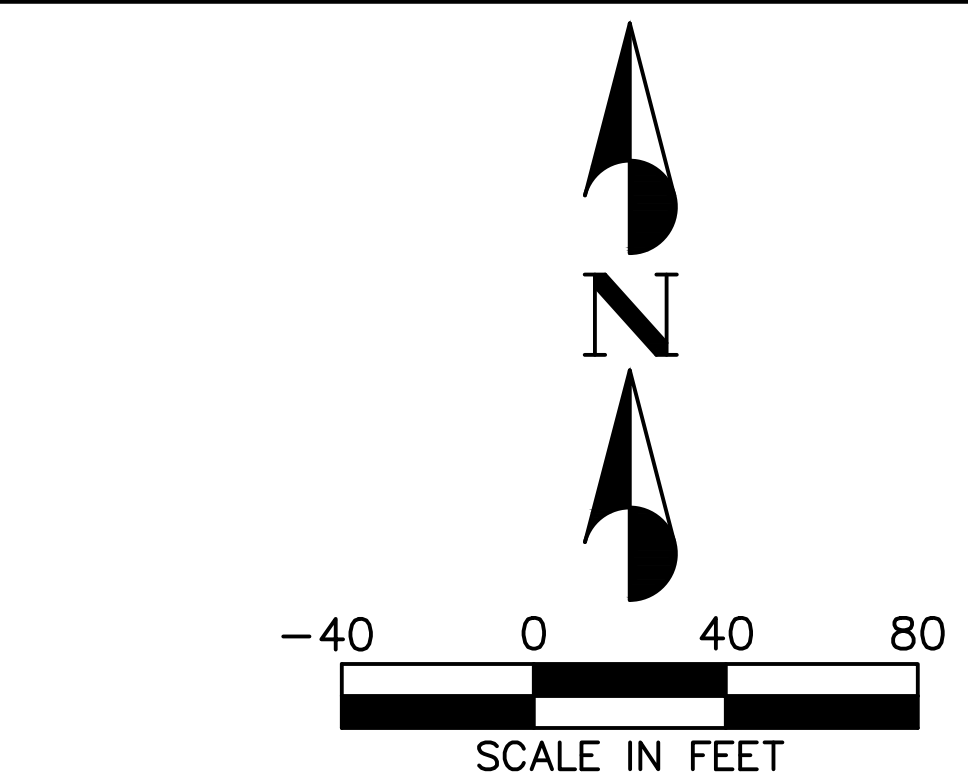


Figure 1: Schematic diagram of the proposed 10' contour. The diagram shows a cross-section of a road with various features labeled on the left and right sides. The left side labels include: PROPOSED BOUNDARY, EXISTING CURB & GUTTER, EXISTING SIDEWALK, EXISTING FENCE, EXISTING WATER LINE, EXISTING SEWER 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, and PROPOSED SAWCUT LINE. The right side labels include: 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, and PROPOSED SAWCUT LINE. The diagram also shows various symbols for water lines (WTR), sewer lines (SWR), storm drain lines (SD), overhead electric (OHE), and telecom lines (T). A scale bar indicates 5200 feet.

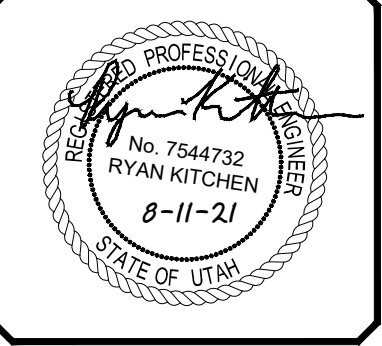
<b>EG</b>	EXISTING GRADE
<b>FG</b>	FINISHED GRADE
<b>TBC</b>	TOP BACK OF CURB
<b>TC</b>	TOP OF CONCRETE
<b>TOW</b>	TOP OF WALL
<b>BOW</b>	BOTTOM OF WALL

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7. 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.
8. EACH LOT IS REQUIRED TO RETAIN ITS OWN STORMWATER RUNOFF.

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



ELK RIDGE  
CITY



SHEET NO. **C4.1**

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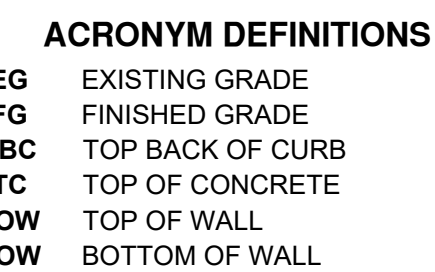
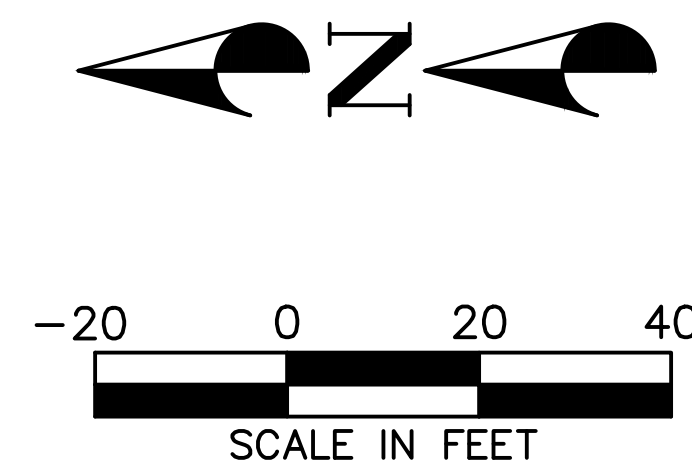
ORIG. DATE :	1/21
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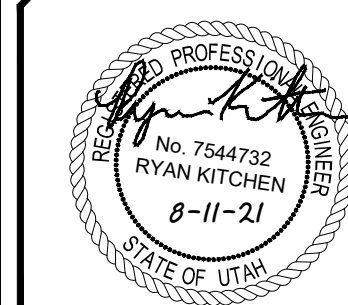
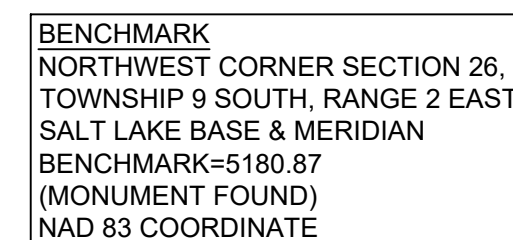
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GEOTECHNICAL • MATERIALS TESTING • INSPECTIONS

AUGUST 11, 2021	6998.2010	DWG\04-GRADE-01
LAST REVISED	PROJECT NUMBER	DRAWING FILE





- ## **NOTES**
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ORIG. DATE :	1/21
SURVEY BY :	PEPG
DRAWN BY :	RTD
DESIGNED BY :	RTD
CHECKED BY :	RLK
SCALE :	1"=20'

**PEPG CONSULTING LLC**

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

## LIGHTHOUSE HEIGHTS

## SUBDIVISION

## C&G PLAN & PROFILE

$$\overline{STA} = 10+00 \sim 14+00$$

AUGUST 11, 2021	6898.2010	DWG\05-PL&PRO-01
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6898.2010

DWG\05-

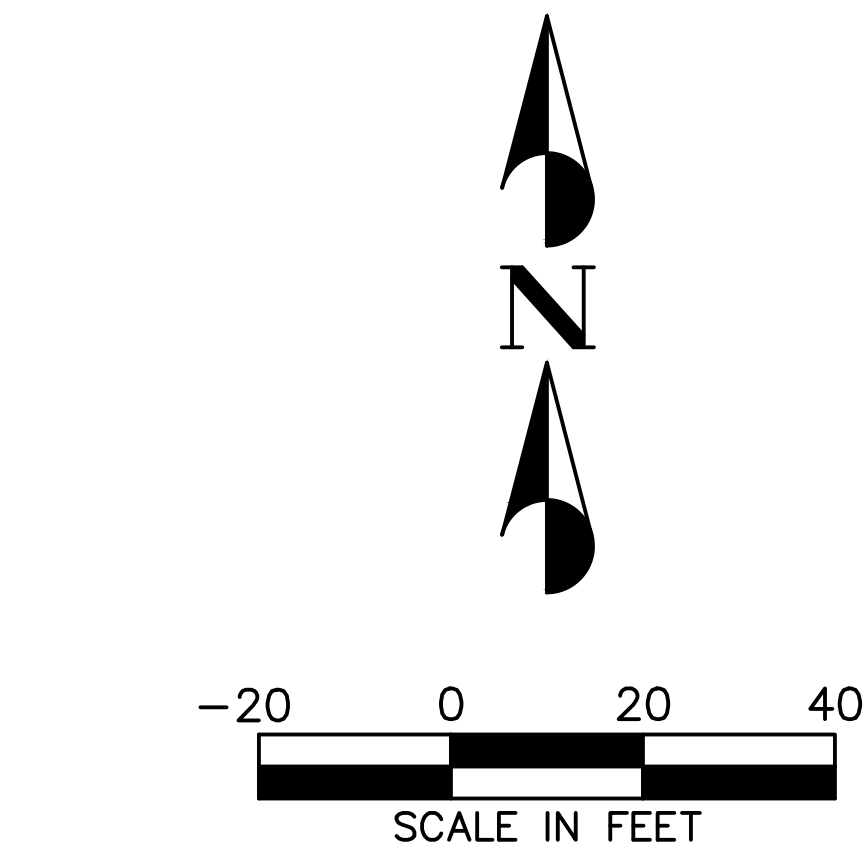
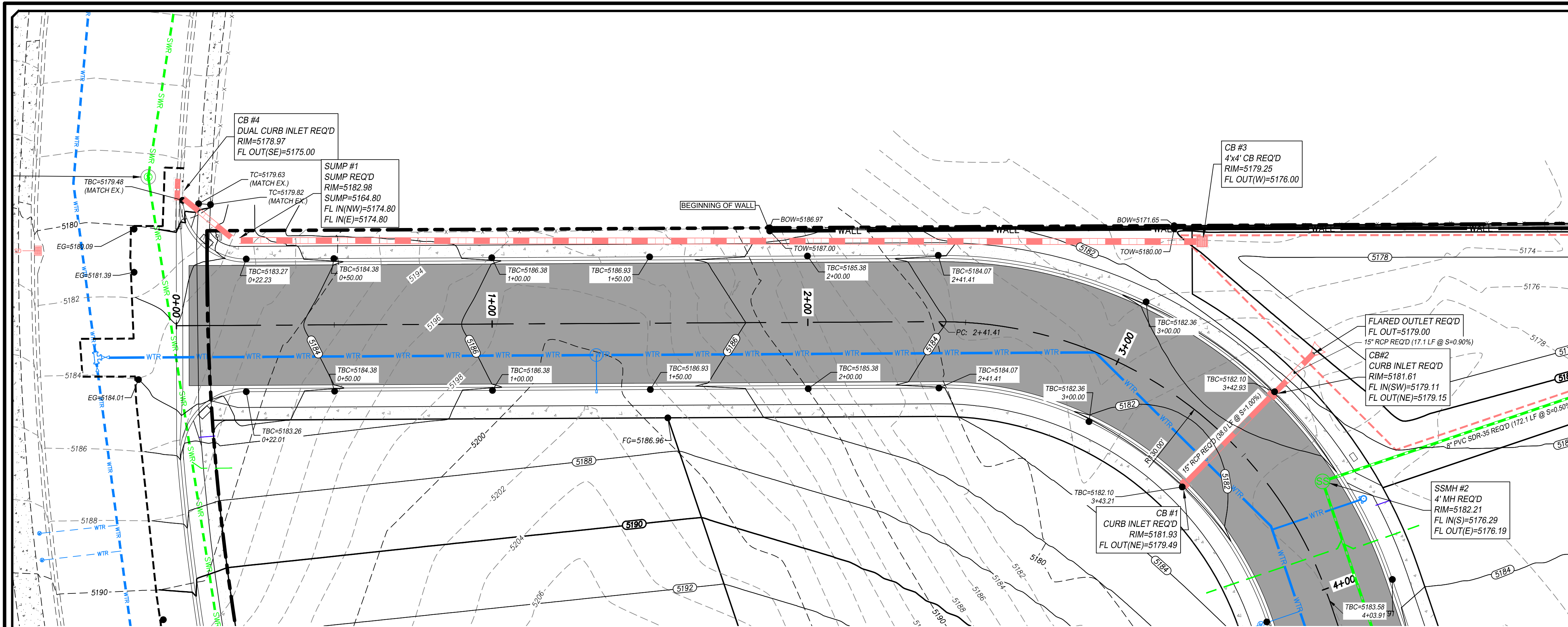
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SHEET NO. **C5.1**

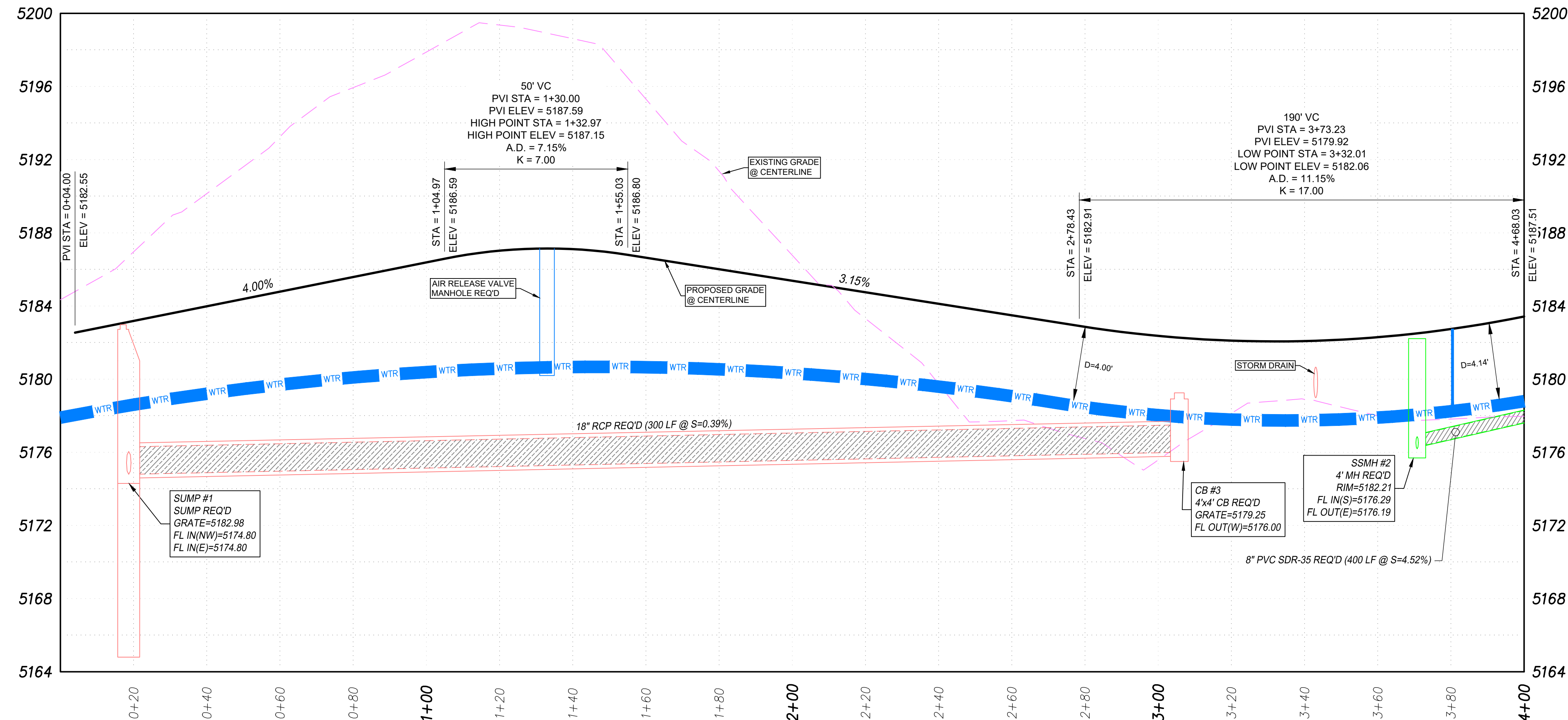




- LEGEND**
- PROPOSED BOUNDARY
  - EXISTING CURB & GUTTER
  - EXISTING SIDEWALK
  - EXISTING FENCE
  - EXISTING WATER LINE
  - EXISTING SEWER LINE
  - EXISTING STORM DRAIN LINE
  - EXISTING OVERHEAD ELECTRIC
  - EXISTING TELECOM LINE
  - EXISTING GAS LINE
  - EXISTING 2' CONTOUR
  - EXISTING 10' CONTOUR
  - PROPOSED BUILDING
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  - 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**
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**LIGHTHOUSE HEIGHTS**  
**SUBDIVISION**  
ROAD PLAN & PROFILE  
STA = 0+00 ~ 4+00

ELK RIDGE CITY

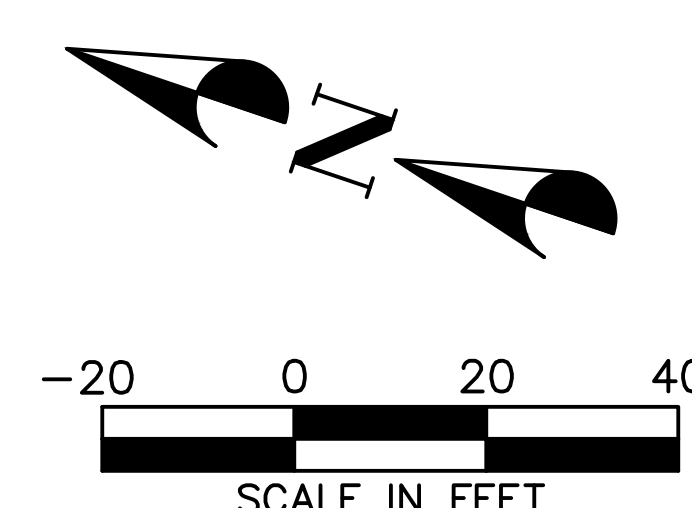
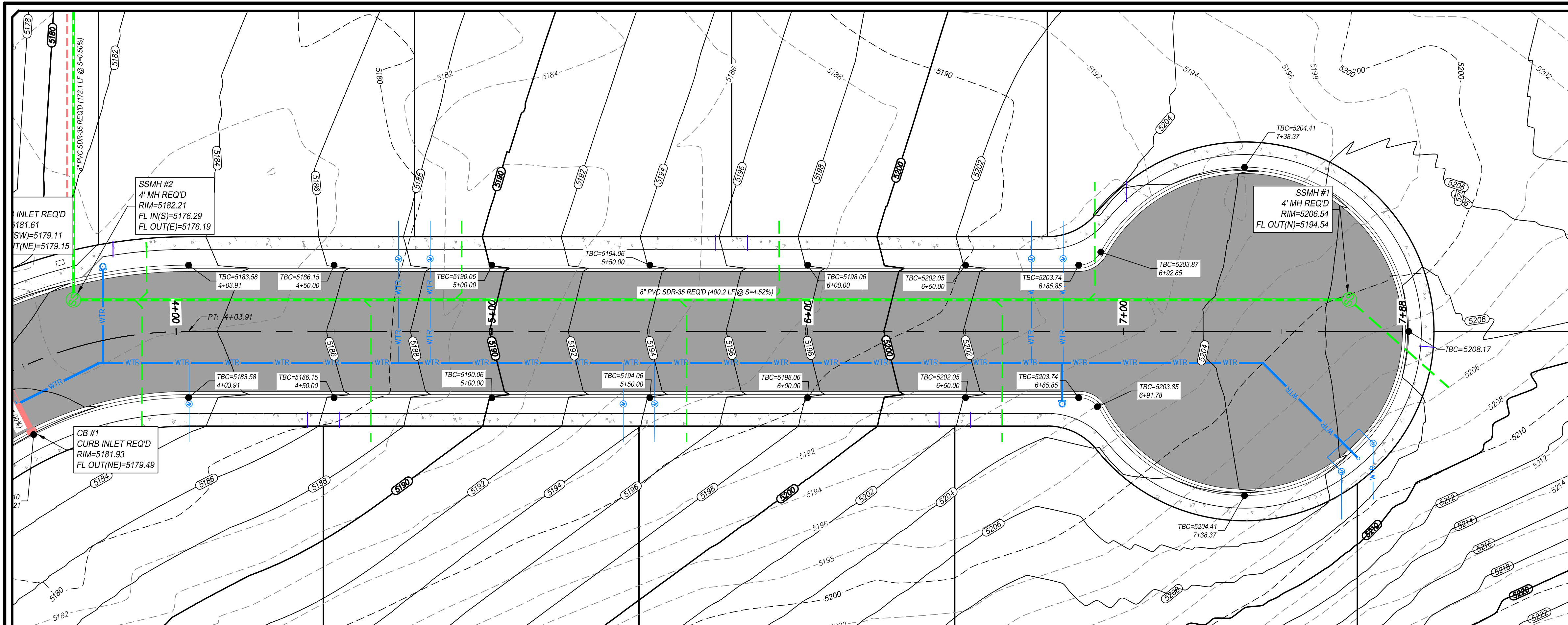
STATE OF UTAH  
No. 7544732  
RYAN KITCHEN  
8-11-21

SHEET NO. **C5.2**

DATE: 1/21  
SURVEY BY: PEPG  
DRAWN BY: RJD  
DESIGNED BY: RJD  
CHECKED BY: RJK  
SCALE: 1"=20'

DWG. NO.: PL&PRO-01  
PROJECT NUMBER: 6898.2010  
LAST REVISED: AUGUST 11, 2021





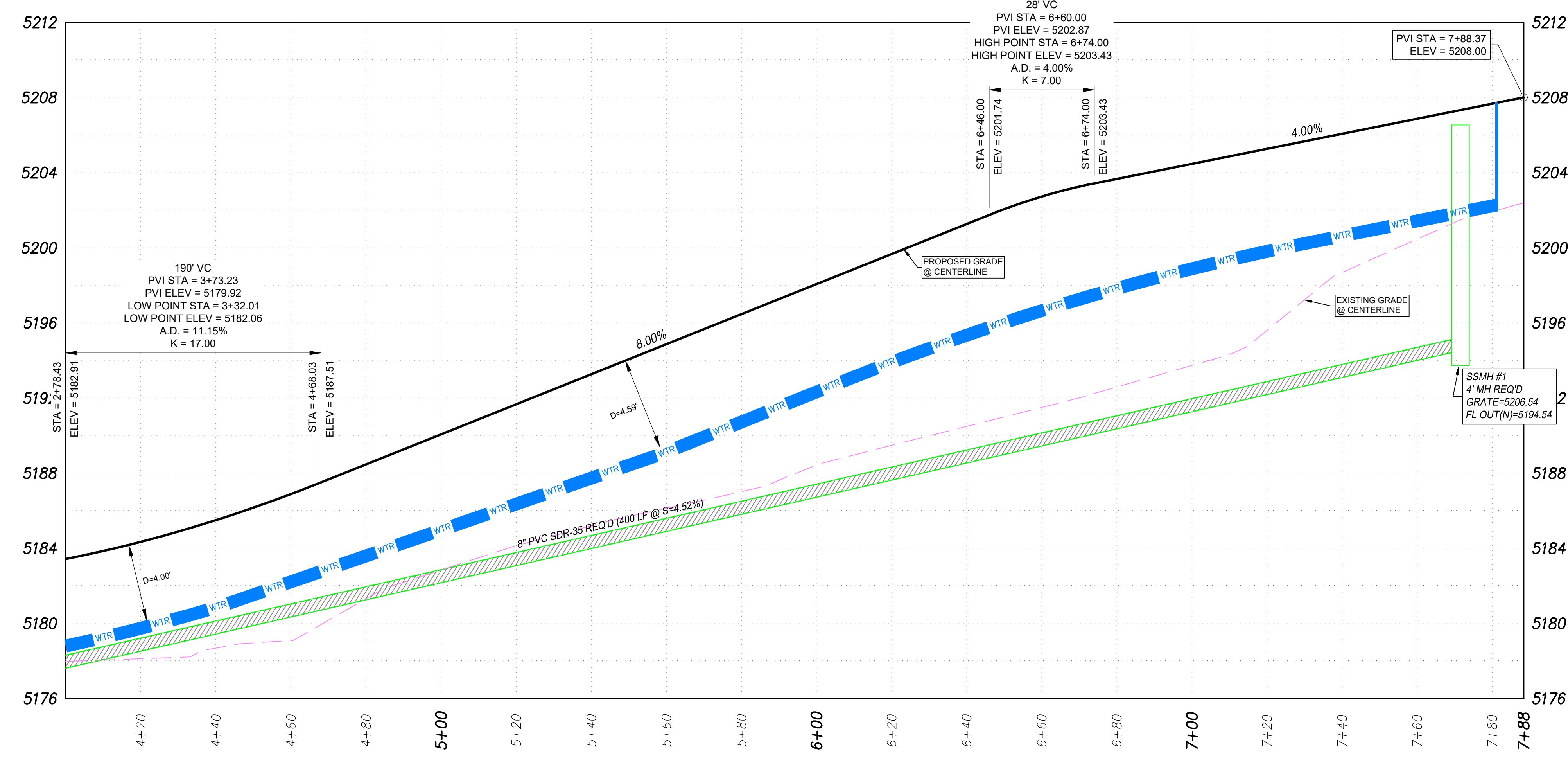
- LEGEND**
- PROPOSED BOUNDARY
  - EXISTING CURB & GUTTER
  - EXISTING SIDEWALK
  - EXISTING FENCE
  - EXISTING WATER LINE
  - EXISTING SEWER LINE
  - EXISTING STORM DRAIN LINE
  - EXISTING OVERHEAD ELECTRIC
  - EXISTING TELECOM LINE
  - EXISTING GAS LINE
  - EXISTING 2' CONTOUR
  - EXISTING 10' CONTOUR
  - 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 = 4+00 ~ 7+88

ELK RIDGE

CITY

PROFESSIONAL SEAL

No. 7544732

RYAN KITCHEN

8-11-21

STATE OF UTAH

AUGUST 11, 2021

6898.2010

PROJECT NUMBER

DWG 05-PL&PRO-01

DRAWING FILE

LAST REVISED

DATE

NO.

DESCRIPTION

SCALE

1"=20'

DATE

APPRO

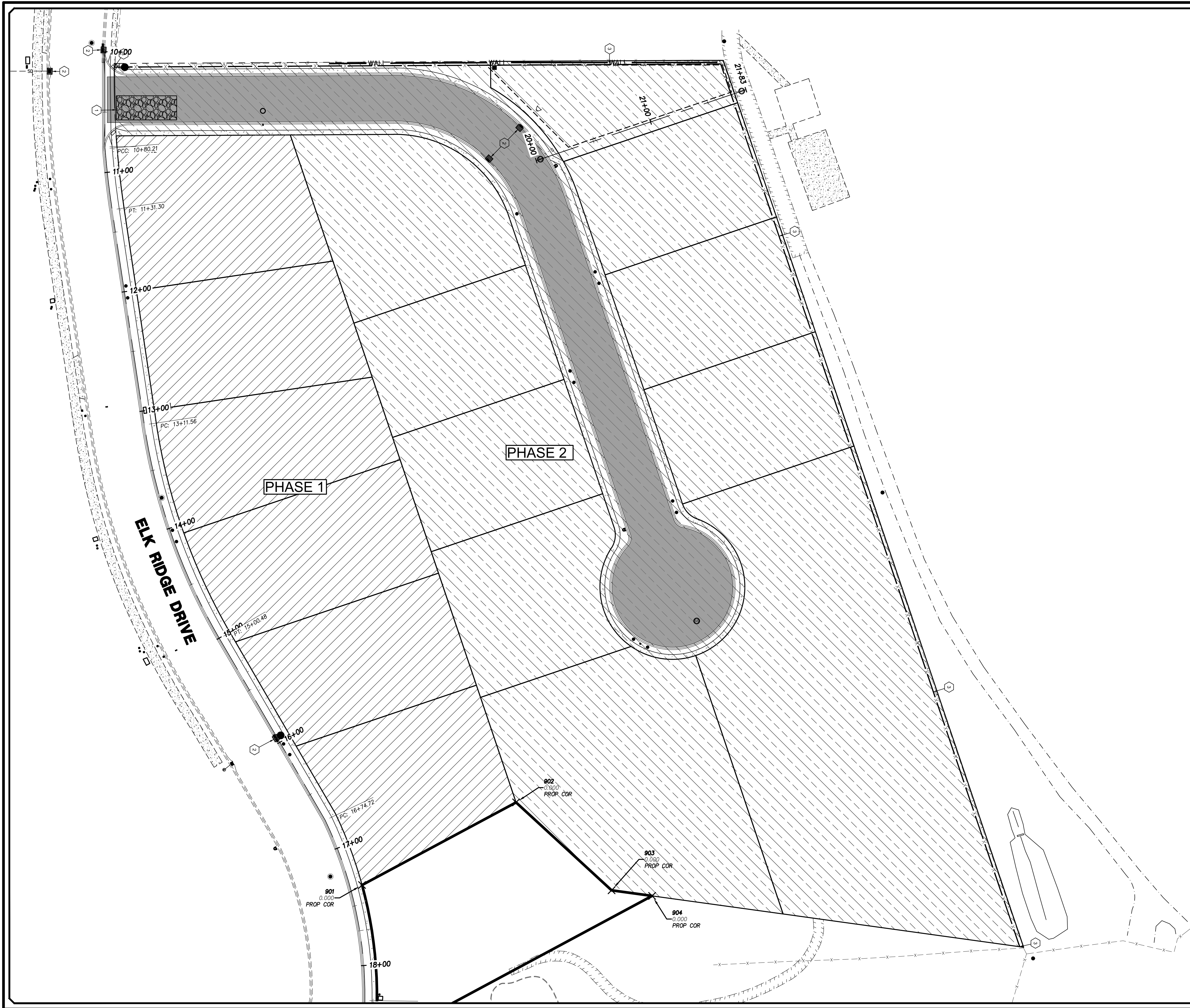
SHEET NO.

C5.3









400

0

40

80

SCALE IN FEET

LEGEND

PROPOSED BOUNDARY

EXISTING CURB & GUTTER

EXISTING SIDEWALK

EXISTING FENCE

PROPOSED LOT LINE

PROPOSED CURB & GUTTER

PROPOSED SIDEWALK

PROPOSED FENCE

PROPOSED SAWCUT LINE

NOTES

1. THIS PLAN HAS BEEN PREPARED AS A GUIDE FOR THE INSTALLATION OF STORM WATER POLLUTION PREVENTION SYSTEMS. IT IS THE CONTRACTORS 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 SEEDED 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.

- KEYNOTE LEGEND
- 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



1/21

PEPG

RTD

RTD

RLK

1"=40'

ORIG. DATE :

SURVEY BY :

DRAWN BY :

DESIGNED BY :

CHECKED BY :

SCALE :

NO.

DESCRIPTION

DATE

APPRO

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

EROSION CONTROL

PLAN

AUGUST 11, 2021

6898.2010

PROJECT NUMBER

DWG 06-EROS-01

DRAWING FILE

LAST REVISED

ELK RIDGE

CITY

PROFESSIONAL SEAL

NO. 7544732

RYAN KITCHEN

8-11-21

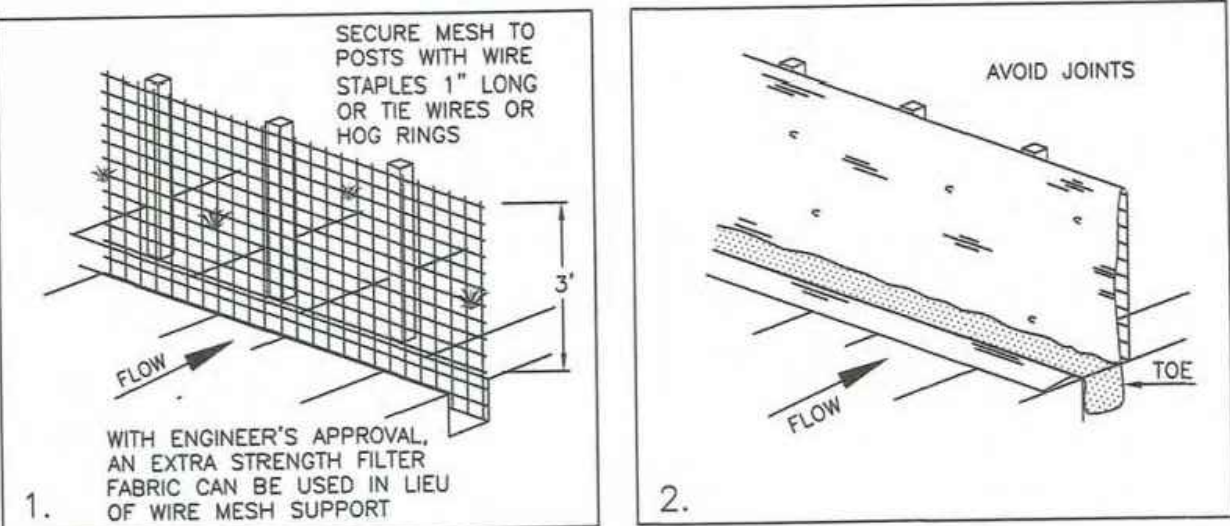
STATE OF UTAH

SHEET NO.

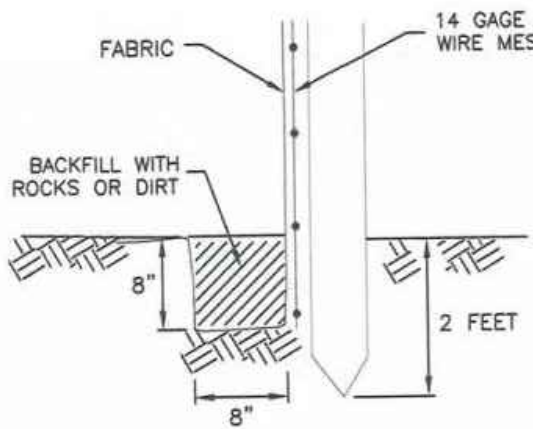
C6.0



NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



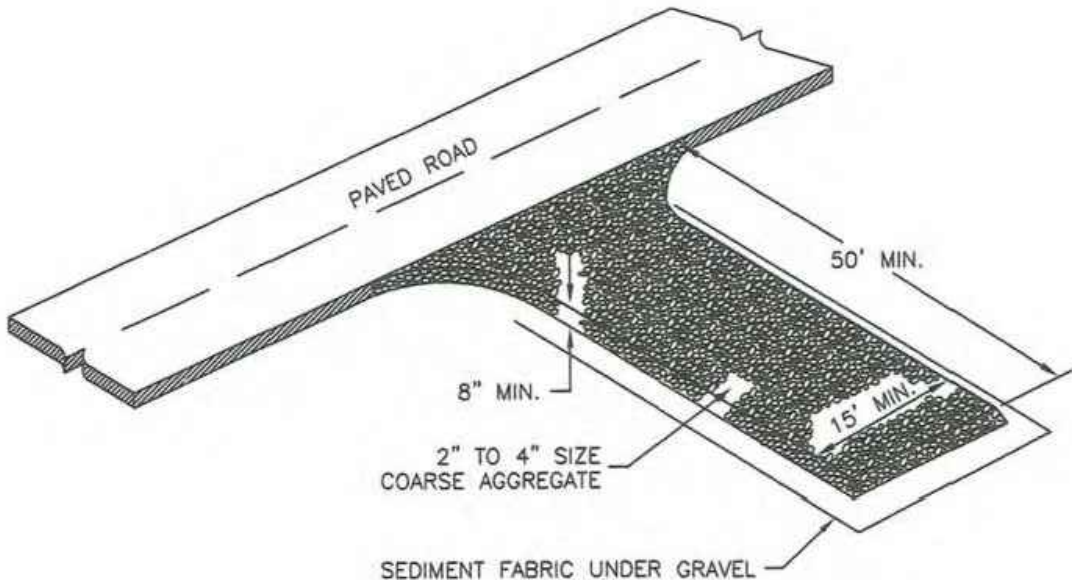
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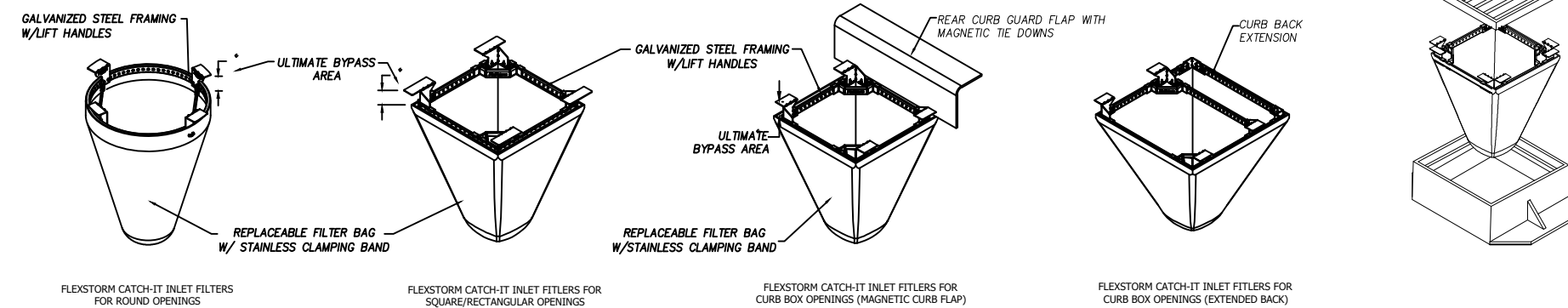
DETAIL-A  
SILT FENCE  
(SEE APWA PLAN NO. 122)

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



DETAIL-B  
STABILIZED ROADWAY ENTRANCE  
(SEE APWA PLAN NO. 126)

FLEXSTORM CATCH-IT FILTERS FOR TEMPORARY INLET PROTECTION  
PRODUCT SELECTION AND SPECIFICATION DRAWING



Product selection for FLEXSTORM CATCH-IT Filters (Temporary Inlet Protection)							
Standard	Inlet Type	Grate Size	Opening Size	Bag Cap. (ft³)	Flow Ratings (CFS)		ADS P/N
					FX	Bypass	
12" x 12" precast catch basin	Concrete Box (HD)	15 x 15	12 x 12	0.9	1.0	2.6	62S012FX
18" x 18" precast catch basin	Concrete Box (HD)	21 x 18	18 x 18	2.1	1.5	3.9	62S018FX
24" x 24" precast catch basin	Concrete Box (HD)	27 x 24	24 x 24	3.4	1.9	5.0	62S024FX
35 Sx18 Curb Box	Curb Inlet (CB)	35.5x18	33x18.5	3.4	2.0	4.6	62JTCBEX1FX
36" x 24" precast catch basin	Concrete Box (HD)	40 x 24	36 x 24	5.6	2.5	6.5	62S03624FX
36" X 24" Combination Inlet	Concrete Box (HD)	40 x 24	36 x 32	4.5	2.3	5.9	62S036324FX
48" x 18 drop inlet	Frame and Grate (SD)	48x18	44x18	4.7	2.6	5.5	62S04818FX
36" X 36" precast catch basin	Concrete Box (HD)	40 x 36	36 x 36	7.6	4.4	10.0	62S036FX
48" X 48" precast catch basin	Concrete Box (HD)	52 x 48	48 x 48	13.8	5.4	12.0	62S048FX

\*FLOW RATINGS SHOWN ARE SIZE MAXIMUM

NOTES

- ALL FRAMING IS CONSTRUCTED OF CORROSION RESISTANT STEEL FRAMING FOR PROLONGED PRODUCT LIFE.
- TOTAL BYPASS CAPACITY WILL VARY WITH EACH SIZED DRAINAGE STRUCTURE. FLEXSTORM DESIGNS FRAMING BYPASS TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE STRUCTURE. CONCRETE STRUCTURES MAY REQUIRE ADDITIONAL REVIEW.
- UPON ORDERING THE ADS P/N CONFIRMATION OF THE DOT CALLOUT, FLEXSTORM ITEM CODE, CASTING MAKE AND MODEL, OR DETAILED DIMENSIONAL FORMS MUST BE PROVIDED.
- FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT [WWW.INLETFILTERS.COM](http://WWW.INLETFILTERS.COM)

INSTALLATION:

- REMOVE GRATE
- DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
- REPLACE GRATE

DETAIL-C  
INLET DROP PROTECTION  
(NOT TO SCALE)



LIGHTHOUSE HEIGHTS

SUBDIVISION

EROSION CONTROL

DETAILS

AUGUST 11, 2021  
LAST REVISED

65898.2010  
PROJECT NUMBER

DWG 06-EROS-01  
DRAWING FILE

ELK RIDGE  
CITY



SHEET NO. **C6.1**

**PEPG CONSULTING LLC**

9270 SOUTH 300 WEST • SANDY, UT 84070

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ORG. DATE : 1/21  
SURVEY BY : PEPG  
DRAWN BY : RTD  
DESIGNED BY : RTD  
CHECKED BY : RLK  
SCALE : #####

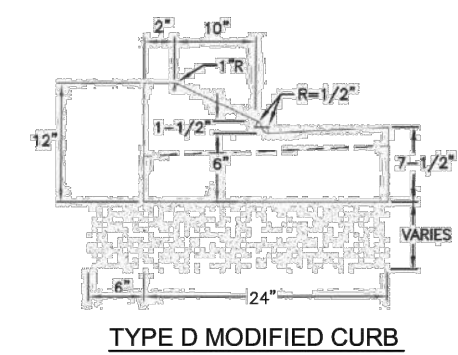
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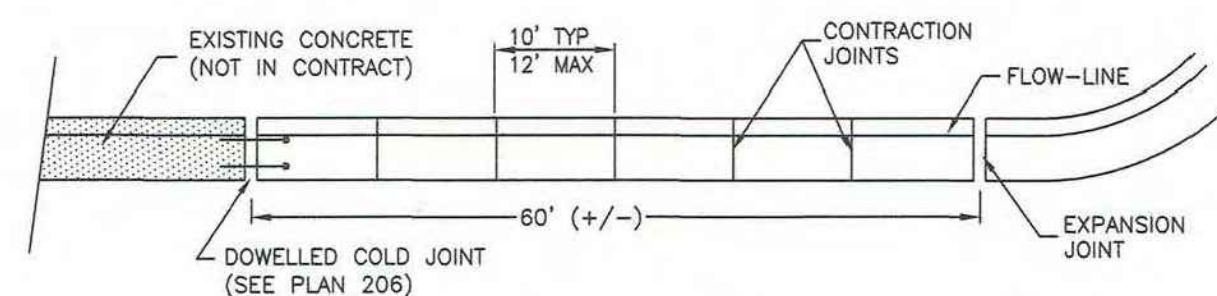
### CONCRETE SIDEWALK

ASPHALT SECTION

**DETAIL-1**  
**PAVEMENT SECTIONS**  
*(NOT TO SCALE)*

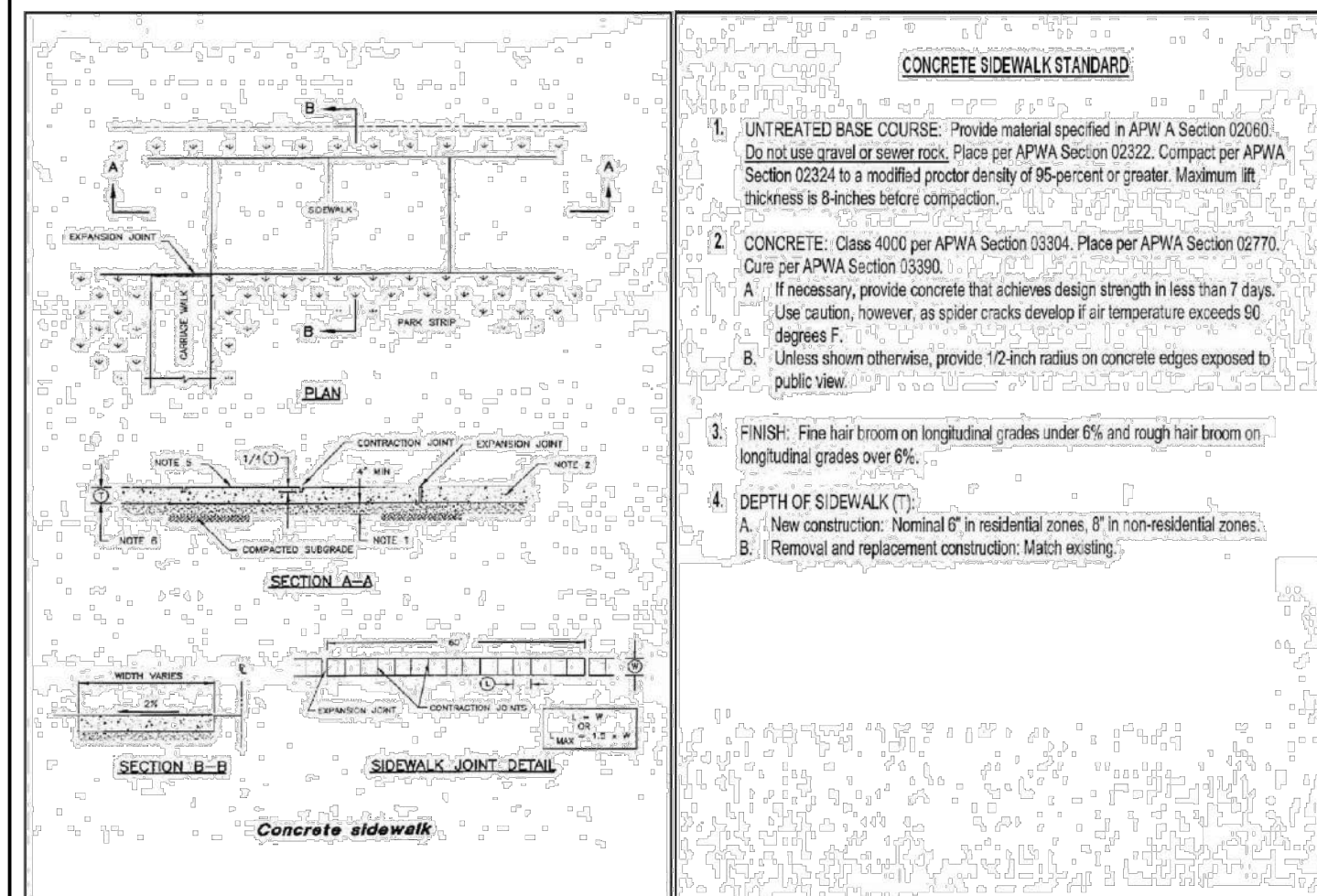


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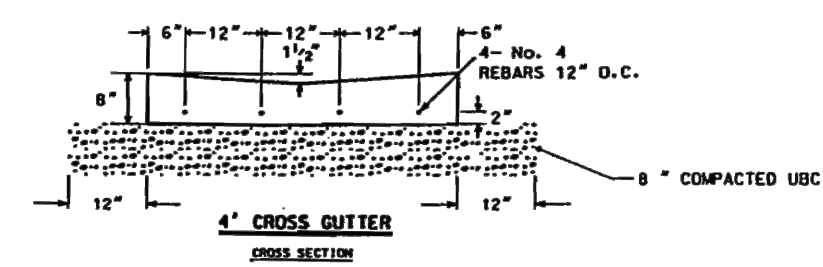


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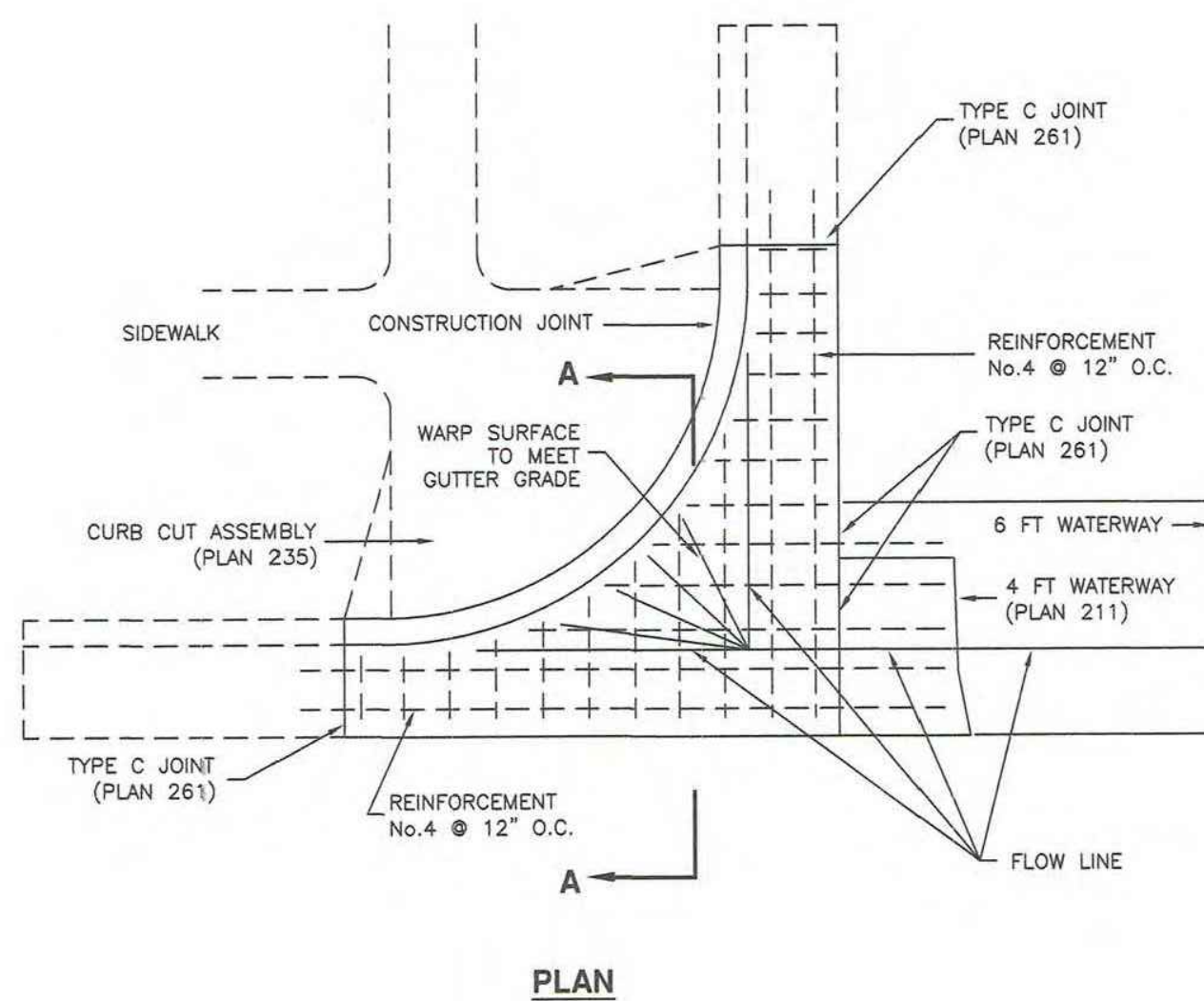
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**TYPE-D MODIFIED CURB**  
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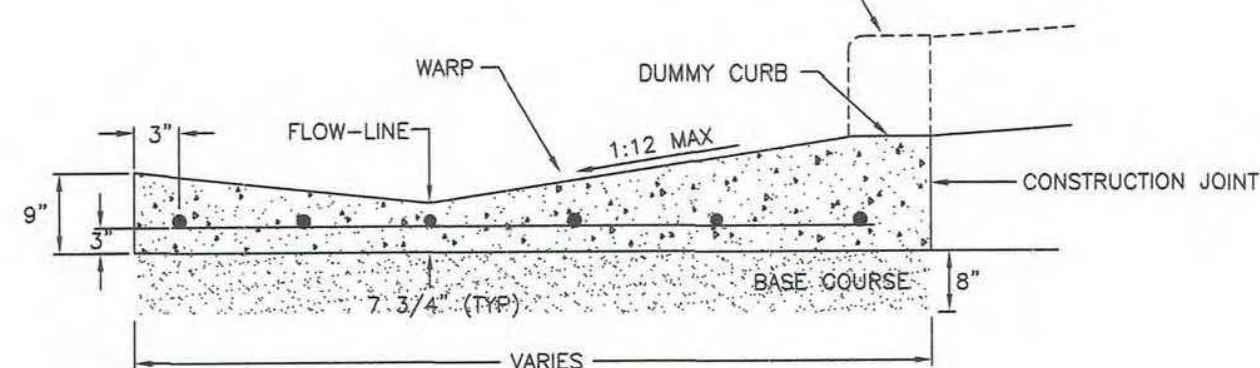
**DETAIL-3**  
**CONCRETE SIDEWALK STANDARD**  
*(NOT TO SCALE)*



**DETAIL-4**  
**4' WATERWAY**  
(NOT TO SCALE)

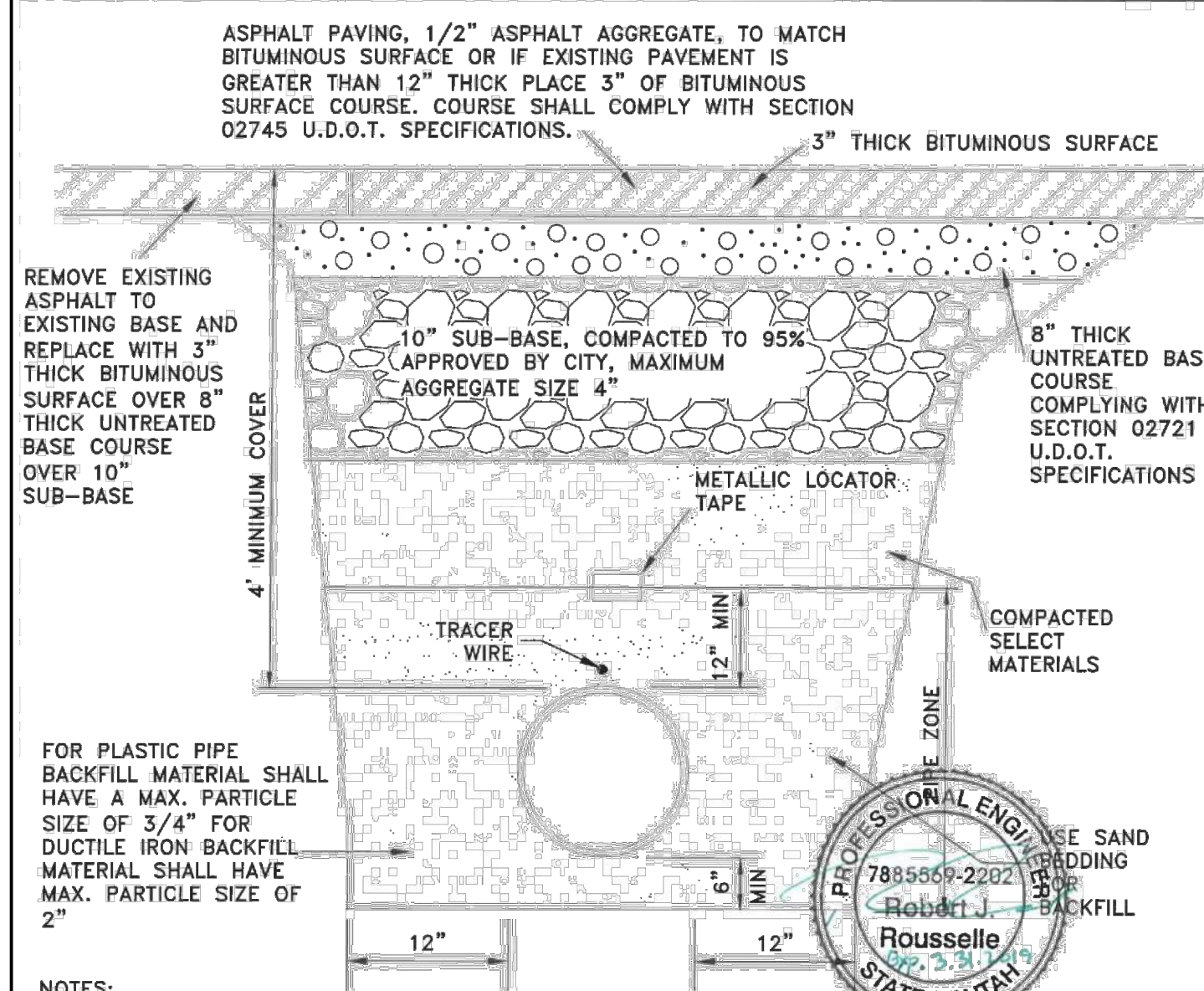


### PLAN



SECTION A-A

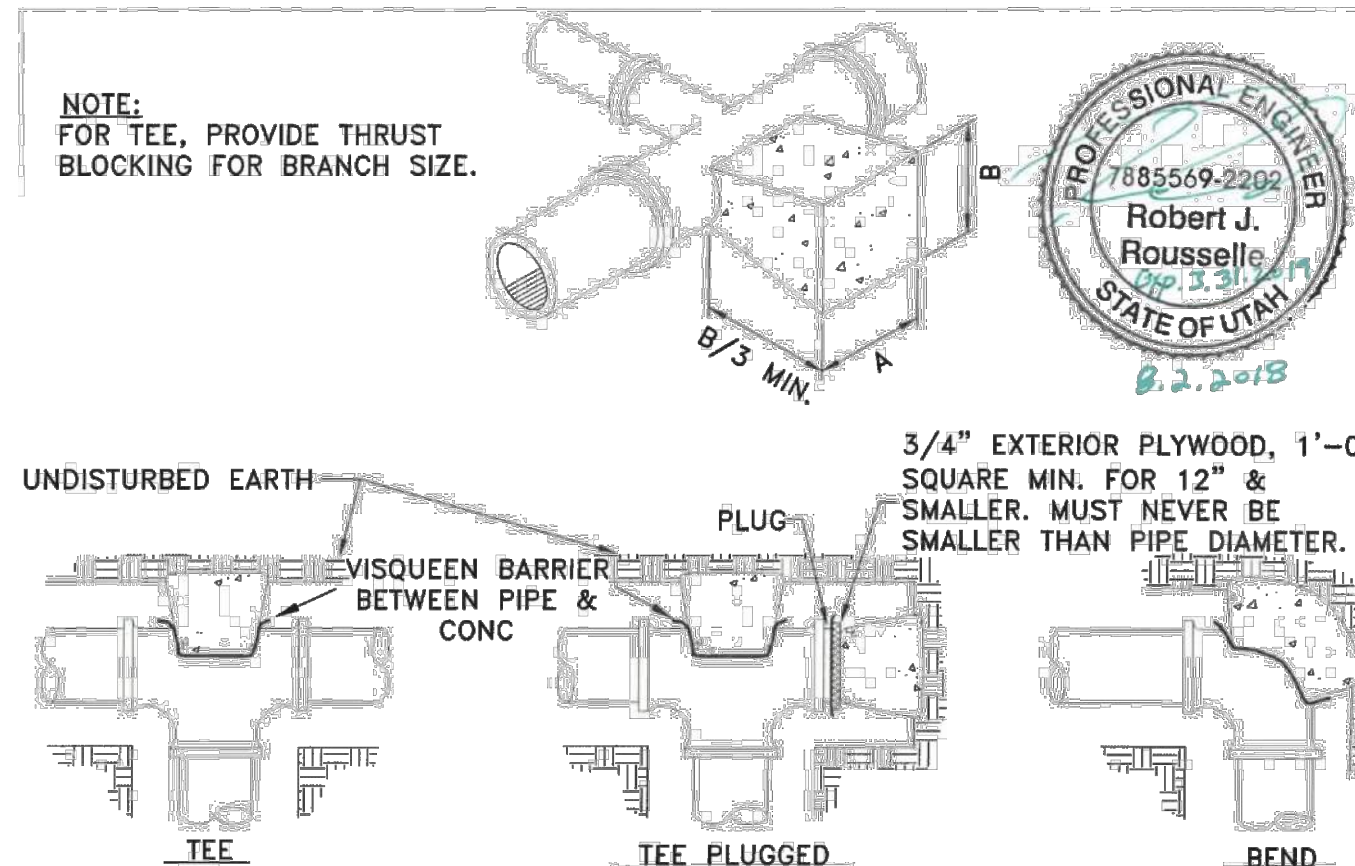
**DETAIL-5**  
**WATERWAY TRANSITION STRUCTURE**  
(SEE APWA PLAN NO. 213)



- NOTES:
1. PIPES & FITTINGS SHALL BE LEAD FREE.
  2. ASBESTOS CEMENT PIPE SHALL NOT BE ALLOWED.
  3. WATER MAINS & SEWER LINES SHALL NOT BE INSTALLED IN THE SAME TRENCH.
  4. PIPES & FITTINGS APPOINTMENTS 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)]
  5. ALL NEW OR REPLACED WATER LINES SHALL BE FLUSHED & DISINFECTED PER AWWA STANDARD C651 LATEST EDITION.
  6. MATERIAL THICKNESS MAY CHANGE AS DIRECTED BY THE CITY ENGINEER BASED UPON FINDINGS AND RECOMMENDATIONS OF GEOTECHNICAL REPORT.
  7. 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-STOPS. MINIMUM WATER MAIN SIZE SERVING 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)].
  8. ALL TYPES OF INSTALLED PIPE SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA C600.
  9. UNDER NO CIRCUMSTANCES SHALL THE PIPE OR ACCESSORIES BE DROPPED INTO THE TRENCH.
  10. 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.)



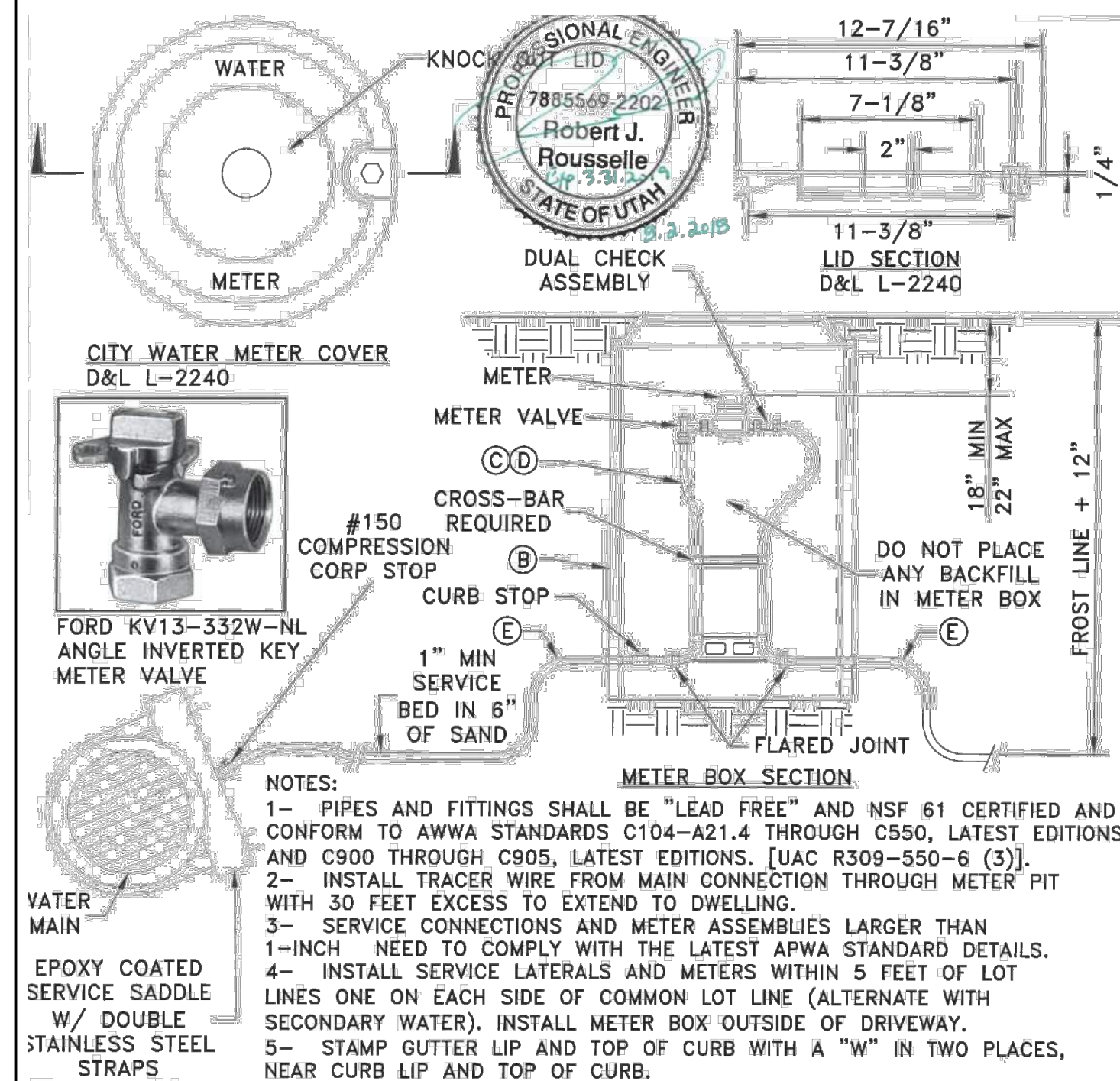
DIMENSIONS FOR THRUST BLOCKING						
FITTING SIZES	TEES & PLUGS	90° BENDS	45° BENDS & "Y"'S	22 1/2° BENDS	BENDS	
1	1-6"	1-6"	1-9"	3-6"	1-0"	0-6"
2	2-0"	1-0"	2-0"	1-3"	1-6"	1-6"
3	2-0"	1-6"	2-3"	1-8"	1-0"	1-3"
4	2-6"	2-3"	2-9"	2-10"	2-3"	2-0"
6	3-0"	2-9"	3-6"	3-3"	2-6"	2-4"
8	3-6"	3-0"	4-0"	3-8"	3-6"	2-4"
10	4-0"	3-6"	5-0"	4-0"	3-6"	2-6"
12	4-6"	4-0"	5-6"	4-6"	4-0"	2-6"
14	5-0"	4-6"	6-0"	5-0"	4-6"	3-0"
16	5-6"	5-3"	6-6"	5-6"	5-0"	3-0"

NOTES:

1. 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.
2. USE POLYETHYLENE ENCASEMENT BETWEEN CONCRETE AND PIPE.
3. REFER TO CONCRETE STANDARD SPECIFICATIONS.
4. THE "THRUST BLOCKING DETAILS" IN NO WAY LIMITS THE LOCATION OR SIZE OF ADDITIONAL BLOCKING WHEN SO WARRANTED OR REQUIRED BY THE ENGINEER.
5. 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)

[illegible]

ORIG. DATE :
SURVEY BY :
DRAWN BY :
DESIGNED BY :
CHECKED BY :
SCALE : 1" = 1'



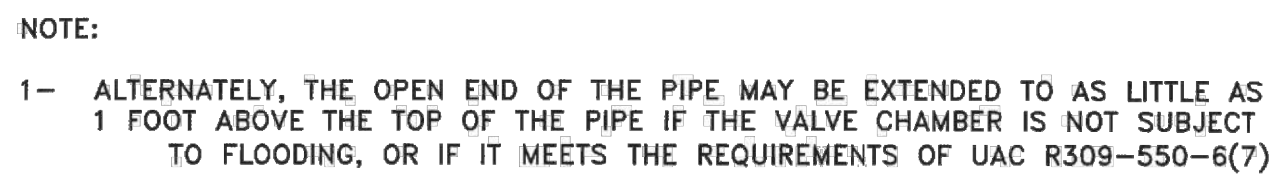


Diagram illustrating the trench preparation for a pipe with bell and spigot joints. The diagram shows a cross-section of a trench with a pipe laid inside. The pipe has bell and spigot joints. The trench is filled with foundation and bedding material. Labels include 'SURFACE' at the top, 'A' indicating the trench walls, 'MAKE BELL HOLES BEFORE LAYING BELL AND SPIGOT' pointing to the pipe joints, and 'FOUNDATION AND BEDDING MATERIAL' pointing to the material in the trench.

The diagram illustrates a cross-section of a trench. At the center is a circular pipe. Surrounding the pipe is a hatched area labeled 'PIPE SPRING LINE'. Above and below this are layers labeled 'BACKFILL (NOTE 3D)' and 'BEDDING (NOTE 3C)' respectively. The entire trench structure is contained within a larger hatched area labeled 'TRENCH WALL'. The top and bottom of the trench are labeled 'PIPE ZONE (NOTE 3A)'. A dimension line on the left indicates a '6" MINIMUM' thickness for the trench wall. A dimension line at the top indicates the 'PIPE ZONE (NOTE 3A)' width. A dimension line at the bottom indicates the 'FOUNDATION STABILIZATION (NOTE 3B)' layer.

5-FOOT METAL SPRING LOADED FIRE HYDRANT MARKER SHALL BE PLACED ON NEW HYDRANTS  
 AWWA C-502 FIRE HYDRANT 1-4 1/2" OUTLET, 2-2 1/2" OUTLETS, 5 1/4" VALVE OPENINGS, (COLOR: RED)

SAFETY FLANGE

18" MIN

30" MIN. 56" MAX.

CONCRETE COLLAR

12"

LID

1/4" RECESS

GROUND LINE

FLANGE JOINTS

THRUST BLOCK

THRUST BLOCK

RESTRAINED JOINT (TYP)

VALVE BOX

4" MIN.

FL x MJ (RESTRAINED) GATE VALVE TEE CONNECTED TO MAIN LINE

MJ (RESTRAINED) x FL TEE

MINIMUM 6" DIA D.I.

REFER TO UAC R309-550-5 (4) FOR SIZE OF WATER MAIN

THRUST BLOCK

GRAVEL (SURROUNDING BASE-4 CU.FT. MIN.)

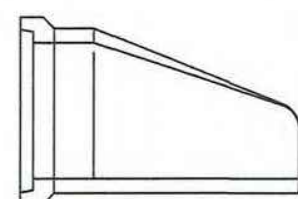
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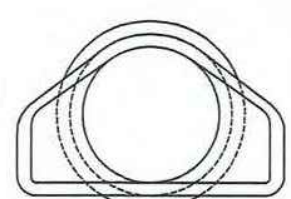
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SHEET NO. **C7.1**

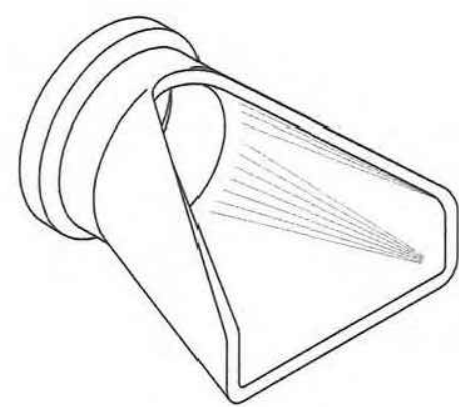




**SECTION A-A**



**END VIEW**

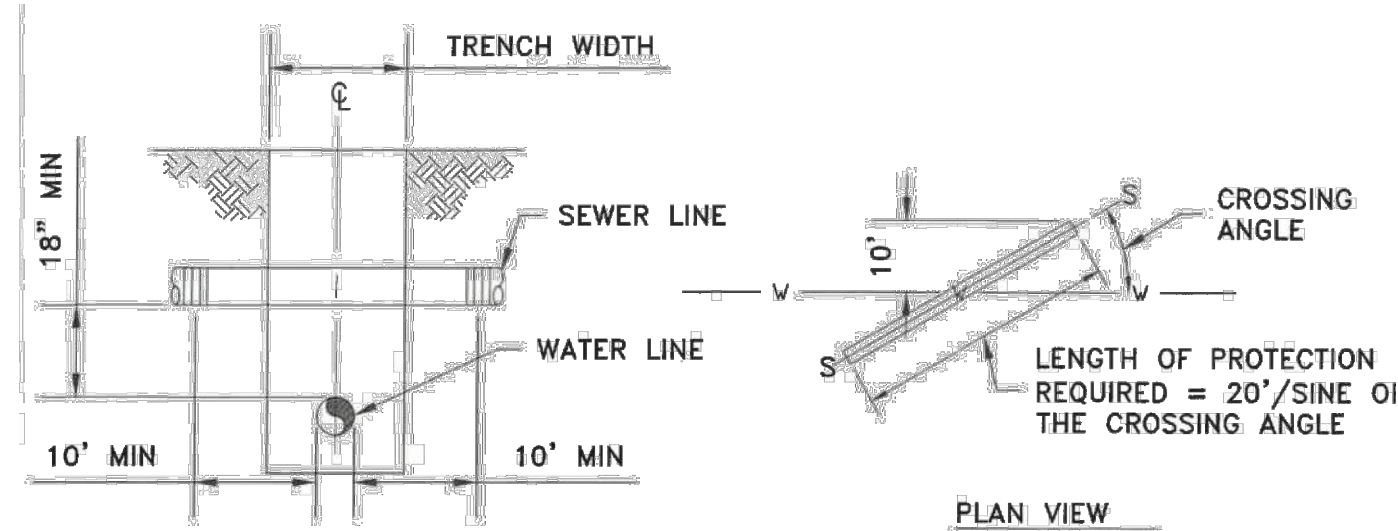


## OBLIQUE

PIPE SIZE	DIMENSION	
	Ⓐ	Ⓑ
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)

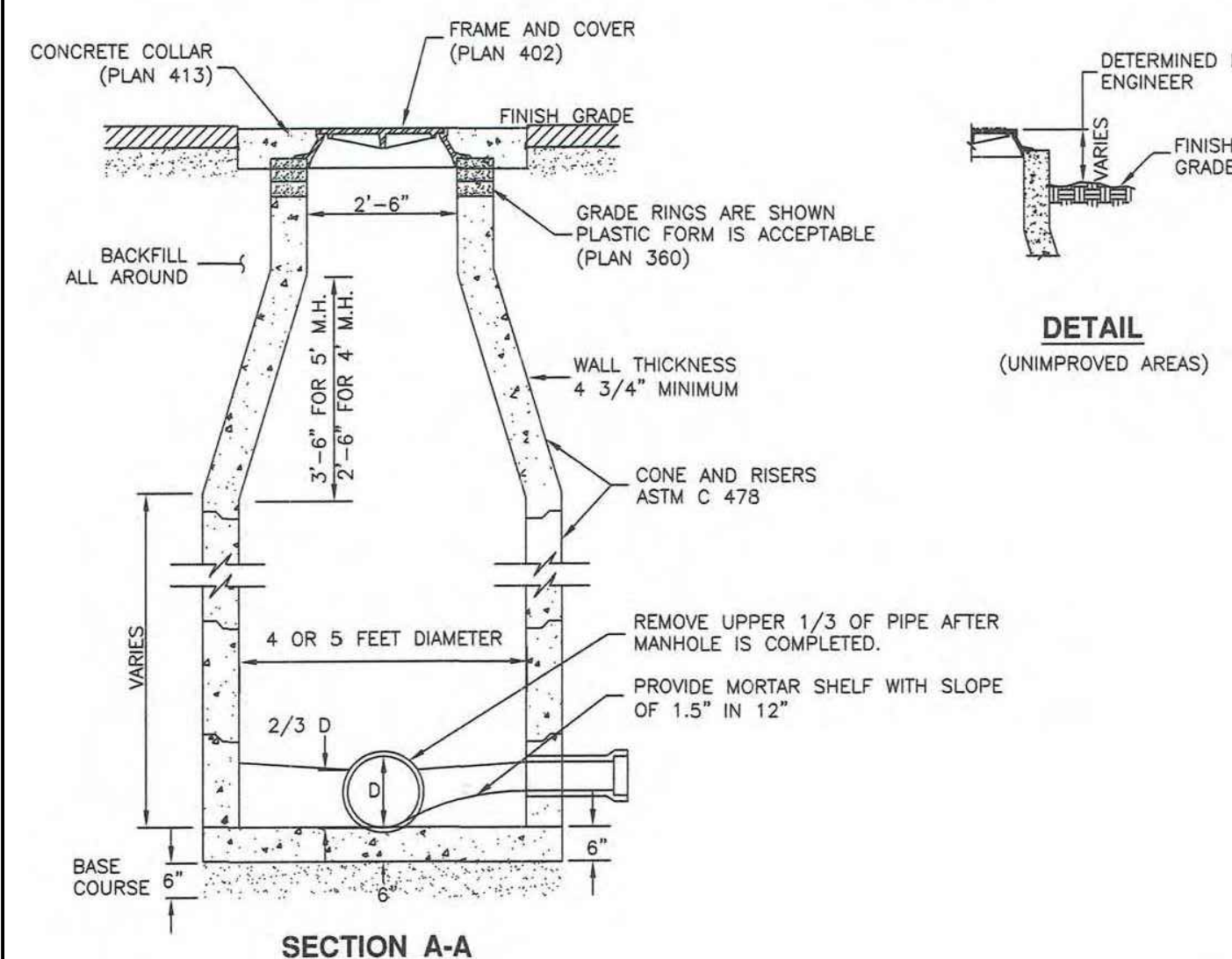
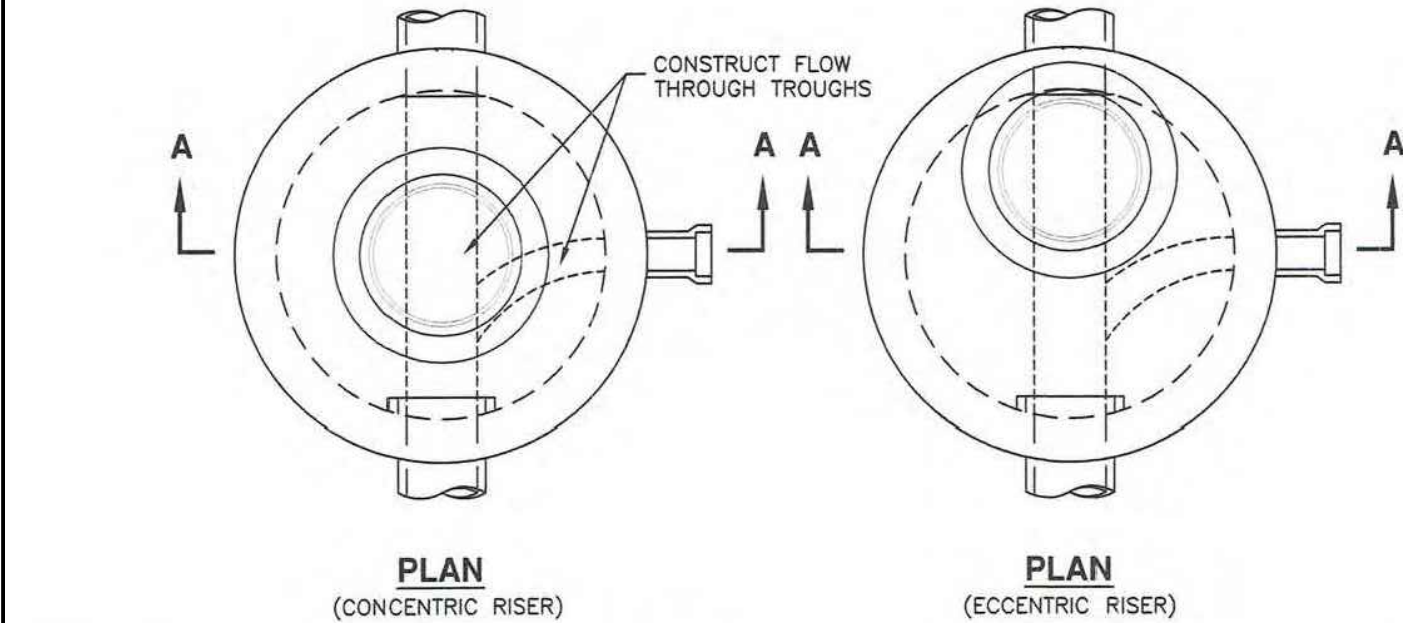


FOR NEW SANITARY SEWER LINE CONSTRUCTION  
WHEN SANITARY SEWER LINE IS ABOVE THE WATER  
LINE, INSTALL SEWER LINE WITH ONE OF THE  
FOLLOWING: CAST IRON, DUCTILE IRON, GALVANIZED  
STEEL, OR PROTECTED STEEL PIPE WITH MECHANICAL  
COUPLERS. THE MINIMUM DISTANCE TO 10 FEET ON  
EITHER SIDE OF WATER CROSSING.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

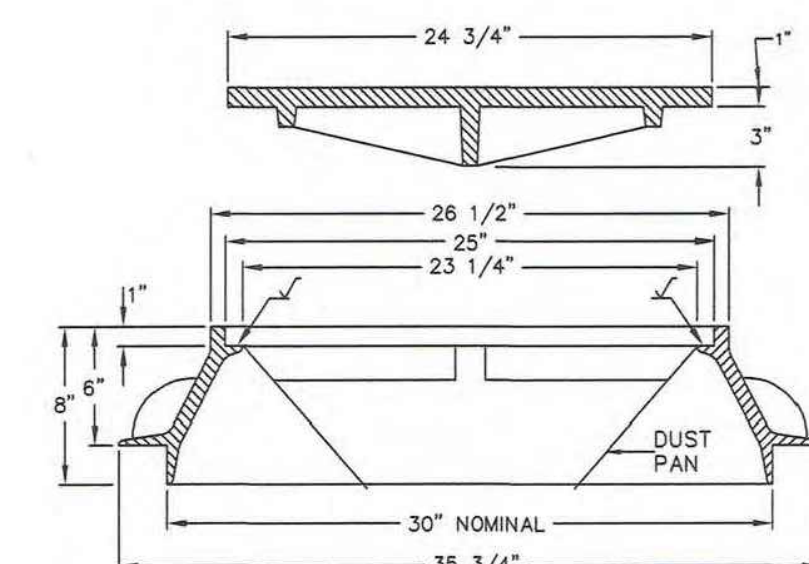
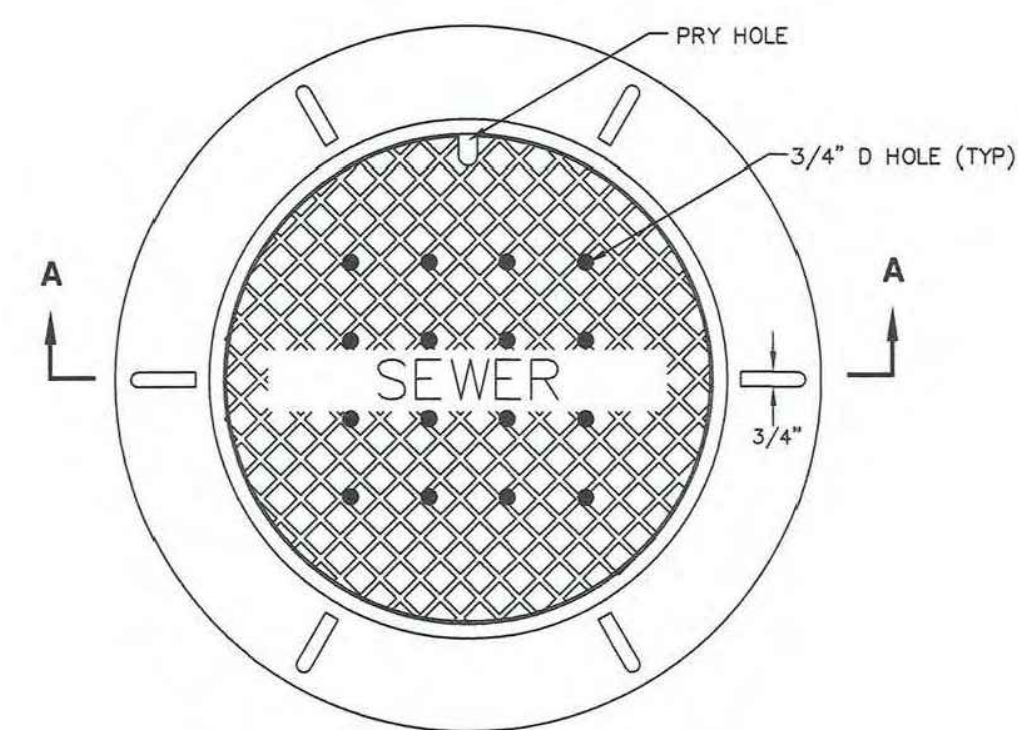
GENERAL NOTES:

- 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).
- 5- FOR PURPOSES OF SEPARATIONS AND PROTECTION OF THE WATER SUPPLY, A RECLAIMED WATER LINE SHALL BE CONSIDERED A SANITARY SEWER LINE.
- 6- 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)



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



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

The image contains two technical drawings of the bridge deck structure. The left drawing, labeled 'DECK SECTION', shows a cross-section of the deck with a 'CONCRETE DECK (PLAN 345)' and a 'SEE RING DETAIL' callout. The right drawing, labeled 'CONE SECTION', shows a cross-section of the deck with a 'CONCRETE CONE ASTM C 478' and a 'SEE RING DETAIL' callout. Both drawings specify a width of 27", 30", 38" or 44" and a height of 12" maximum and 2.5" minimum.

SEE RING DETAIL

27", 30", 38" OR 44"

12" MAXIMUM  
2.5" MINIMUM

CONCRETE DECK  
(PLAN 345)

**DECK SECTION**

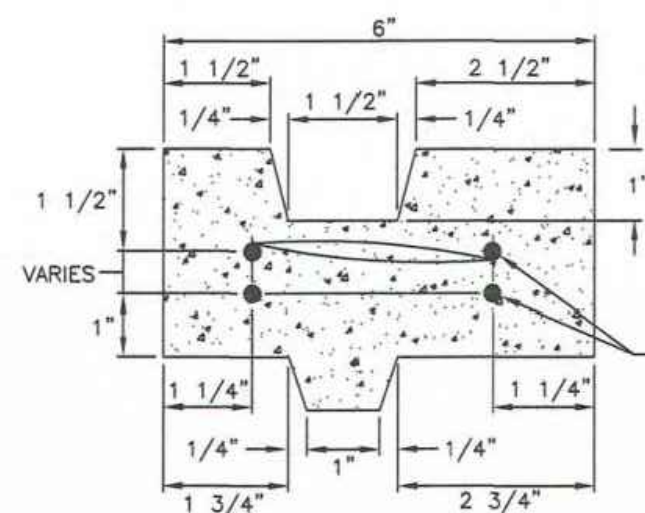
SEE RING DETAIL

27", 30", 38" OR 44"

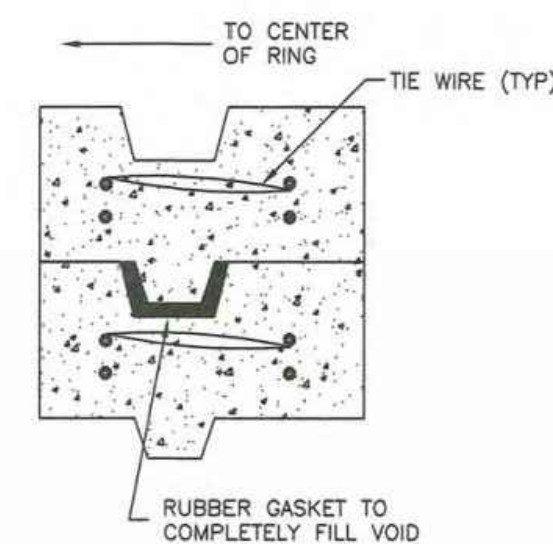
12" MAXIMUM  
2.5" MINIMUM

CONCRETE CONE  
ASTM C 478

**CONE SECTION**

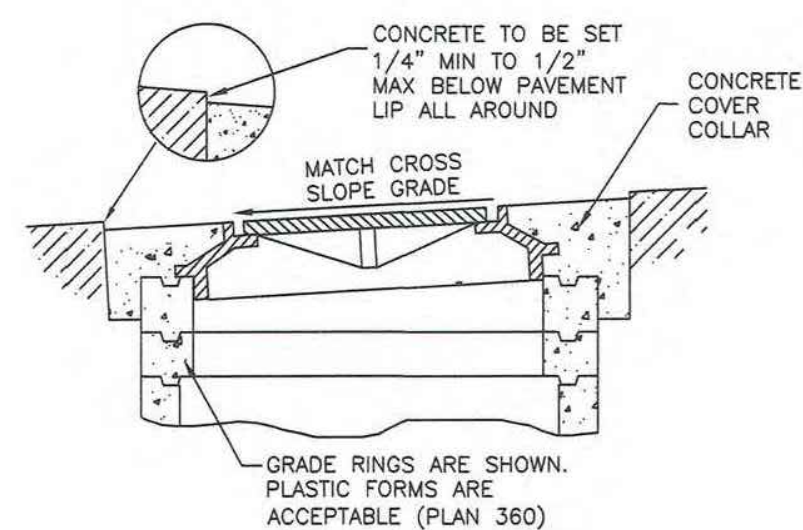
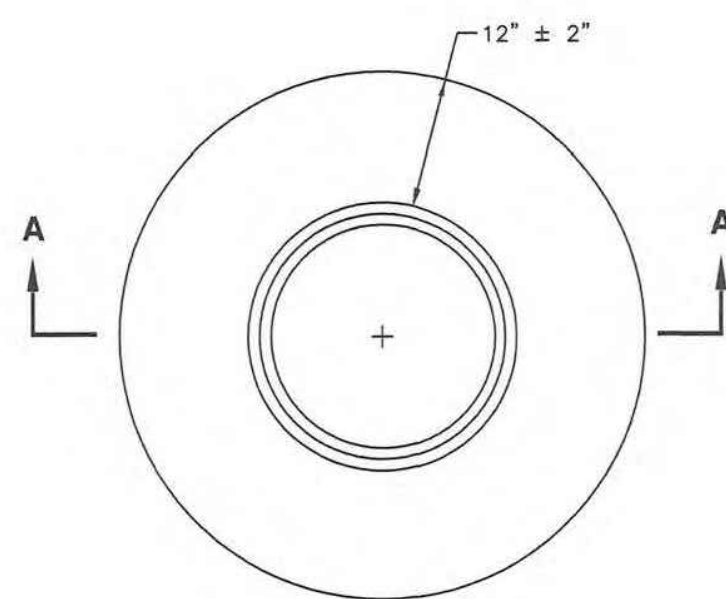


### RING DETAIL



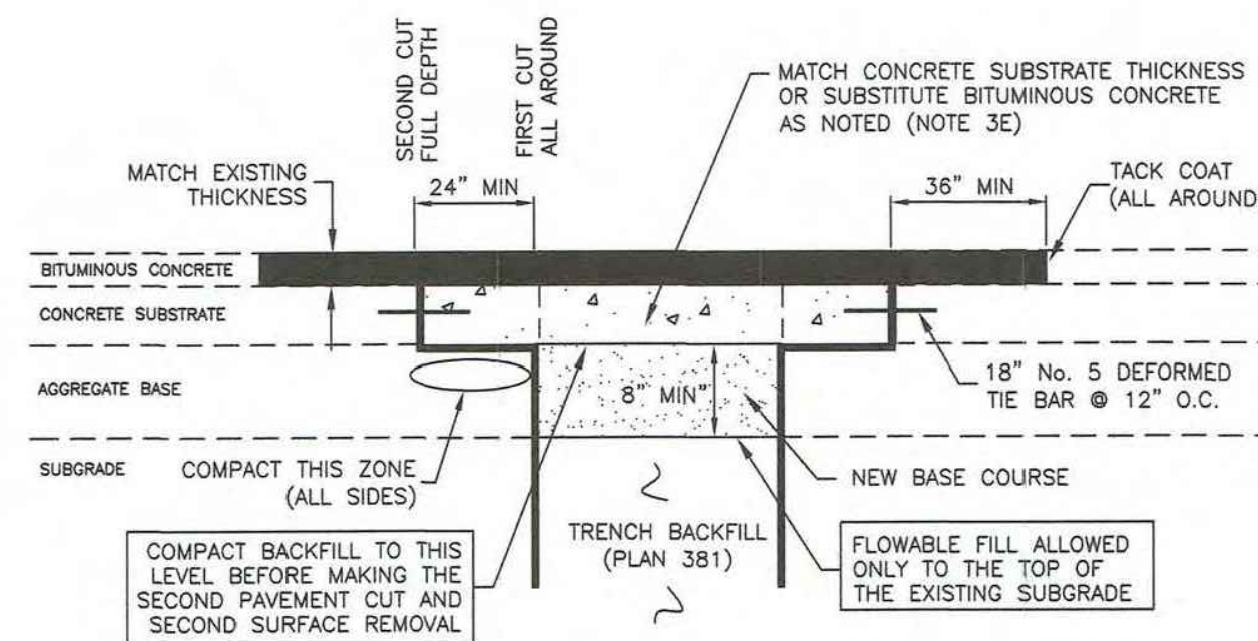
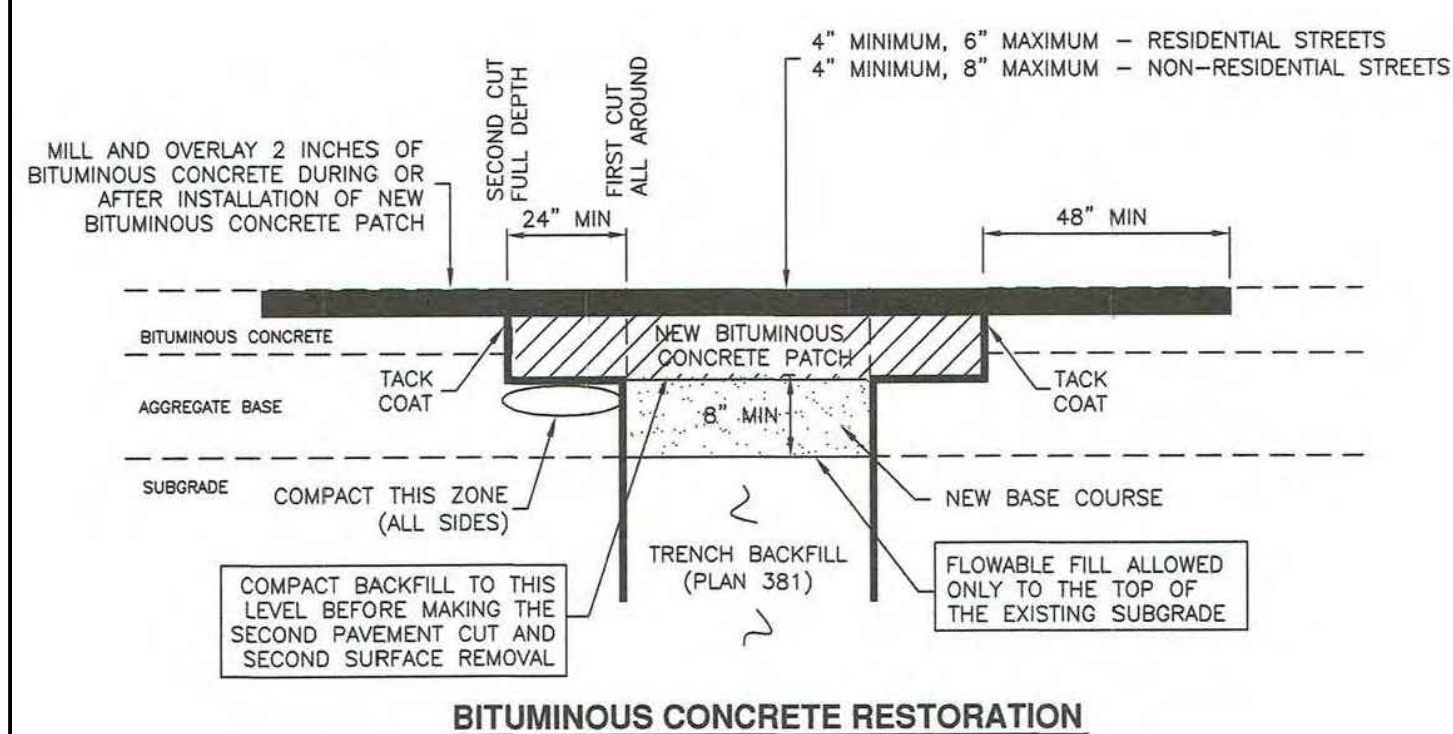
### GASKET DETAIL

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

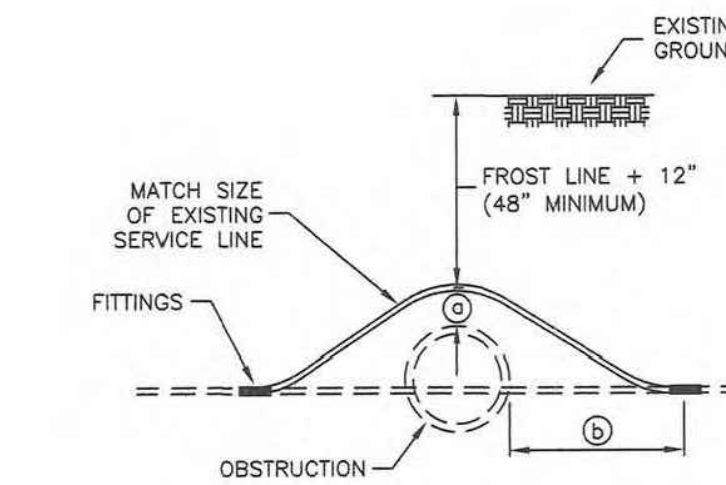


**SECTION A-A**

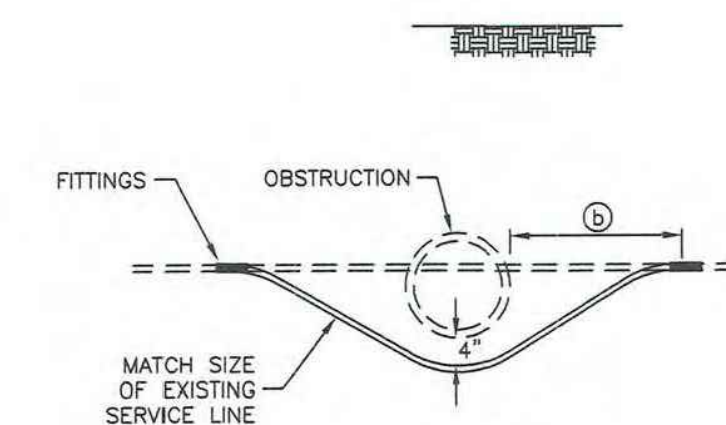
**DETAIL-22**  
**COVER COLLAR FOR SANITARY SEWER MANHOLE**  
(SEE APWA PLAN NO. 413)



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



### STYLE A



**STYLE B**

	OBSTRUCTION	
	SEWER MAIN	OTHER
(a)	18"	12" MIN.
(b)	10'-0"	12" MIN.

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