

# DRAWINGS FOR WILLAMETTE WATER SUPPLY PROGRAM

## RWF\_1.0



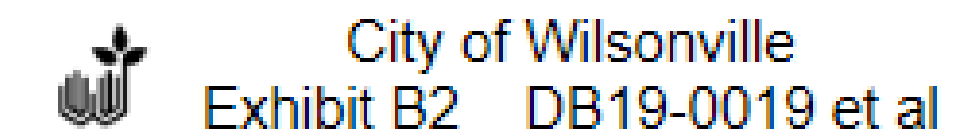
## LAND USE PERMIT DRAWINGS November 2019

**UTILITIES REPRESENTATIVE:**  
WILLAMETTE WATER SUPPLY PROGRAM  
JENNIFER MINTON, P.E.  
1500 NW BETHANY BLVD, SUITE 305  
BEAVERTON, OR 97006  
503-941-4563

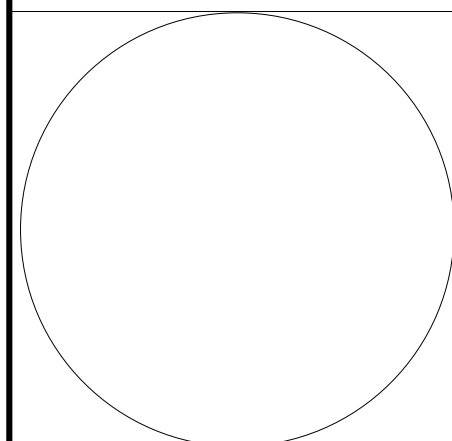
**ENGINEER'S REPRESENTATIVE**  
BLACK & VEATCH CORPORATION  
JEFF MCMULLEN, P.E.  
5885 MEADOWS RD SUITE 700  
LAKE OSWEGO, OR 97035  
503-443-4400

PRELIMINARY, SUBJECT TO CHANGE

LAND USE PERMIT  
(NOT FOR CONSTRUCTION)



Sheet	Drawing No.	Drawing Title
<b>Land Use (LU)</b>		
<b>General (G)</b>		
1	LUG-00	Cover
2	LUG-01	Index
3	LUG-03	Legend
<b>Plan (P)</b>		
4	LUP-01	Existing Conditions - Site
5	LUP-02	Existing Conditions - Vicinity
6	LUP-03	Site Plan - Overall
7	LUP-04	Site Plan - Pump Station and River Bank
8	LUP-05	Site Plan - Park
9	LUP-06	Site Plan - Upper Site
10	LUP-07	Grading Plan - Pump Station and River Bank
11	LUP-08	Grading Plan - Upper Site
12	LUP-09	Erosion Control Plan - Pump Station and River Bank
13	LUP-10	Erosion Control Plan - Upper Site
14	LUP-11	Erosion Control Plan - Details
15	LUP-12	Utility Plan - Pump Station and River Bank
16	LUP-13	Utility Plan - Park
17	LUP-14	Utility Plan - Upper Site
18	LUP-15	Landscape Plan - Legend
19	LUP-16	Landscape Plan - Pump Station and River Bank
20	LUP-16.1	Landscape Plan - Pump Station and River Bank 2
21	LUP-17	Landscape Plan - Upper Site 1
22	LUP-18	Landscape Plan - Upper Site 2
23	LUP-18.1	Landscape Plan - Upper Site 3
24	LUP-19	Landscape Details
25	LUP-20	Tree Removal and Protection Plan - River Bank
26	LUP-21	Tree Removal and Protection Plan - River Bank Aerial
27	LUP-22	Tree Removal and Protection Plan - Park
28	LUP-23	Tree Removal and Protection Plan - Upper Site
29	LUP-24	Building Design - Perspectives
30	LUP-25	Building Design - Elevations
31	LUP-26	Building Design - Elevations
32	LUP-27	Entrance Gate Plan
33	LUP-28	Bank Stabilization Profile
34	LUP-29	Proposed Work Zones
35	LUP-30	Upper Site Perspectives
36	LUP-31	Operating Floor Plan
37	LUP-32	Outdoor Lighting Plan
38	GEE-03	Panel and Lighting Fixture Schedule
39	VSC-00	Visual Site Calculations
40	USL-06	Irrigation Plan 1
41	USL-07	Irrigation Plan 2
42	USL-08	Irrigation Legend
43	USL-09	Irrigation Details 1
44	USL-10	Irrigation Details 2
45	ECC-04	Stormwater Plan - Upper Site
46	ECC-05	Stormwater Profile - Upper Site
47	ECC-06	Stormwater Profile - Upper Site
48	ECC-07	Stormwater - Details 1
49	ECC-08	Stormwater - Details 2



DSGN	M. CARLSON					
DR	S. SUDERMAN					
CHK	R. BROWN					
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY	APVD

VERIFY SCALE  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 0" = 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



**Willamette Water Supply**  
*Our Reliable Water*  
 WILLAMETTE WATER SUPPLY PROGRAM  
 RWF\_1.0

PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
 INDEX OF DRAWINGS

SHEET	2
DWG	LUG-01
DATE	07/12/19
PROJ	196999

**CIVIL LEGEND**

- 100+00      200+00
- NEW PIPELINE W/ STATIONING
- STREET CENTERLINE
- R/W      R/W
- RIGHT OF WAY
- PROPERTY LINE
- ESMT      ESMT
- EASEMENT
- X      X
- FENCE LINE
- W      W
- WATER
- STM      STM
- STORMWATER
- SAN      SAN
- SANITARY SEWER
- G      G
- GAS
- E      E
- BURIED ELECTRIC
- OW      OW
- OVERHEAD WIRE
- T      T
- TELEPHONE/COMMUNICATIONS

- PROPOSED PAVEMENT AREA
- PROPOSED GRAVEL AREA
- PROPOSED BRICK PAVER AREA
- PROPOSED PERVIOUS PAVEMENT AREA
- EXISTING FEATURE TO BE DEMOLISHED

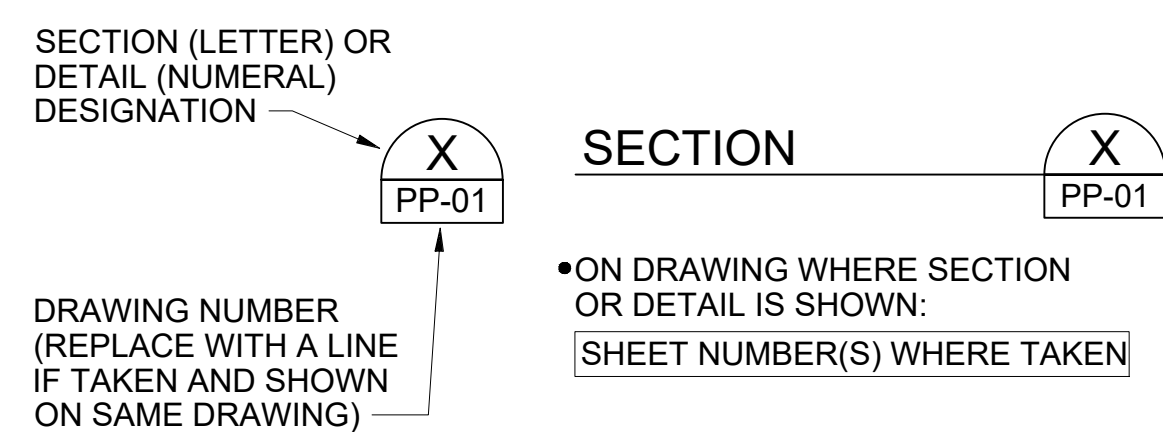
NORTH ARROW BELONGS IN THE BOTTOM RIGHT CORNER OF THE SHEET

- NORTH WILL FACE UP OR TO THE LEFT EXCEPT FOR SPECIAL SITUATIONS.
- SCALE ARROW DOWN BY 0.5 FOR 8.5X11

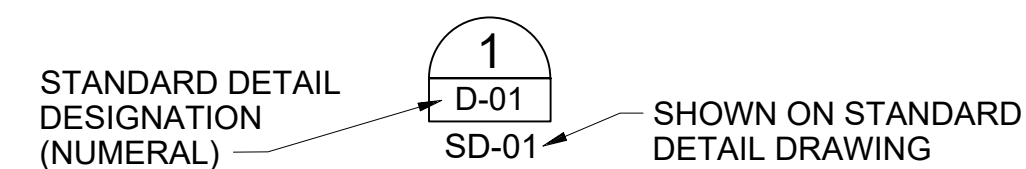
- 2:1
- CUT-FILL SLOPE
- FLOW ARROW
- WATER LEVEL
- FIRE HYD EXISTING AND PROPOSED
- WM
- WATER METER
- WATER VALVE EXISTING AND PROPOSED
- SEWER MANHOLE
- STORM DRAIN MANHOLE
- UTILITY POLE
- 3
- SLOPE
- STORM DRAIN INLET
- SEWER CLEANOUT
- TELEPHONE PEDESTAL
- MAILBOX
- POTHOLE
- CPT
- CHECK VALVE
- M
- MOTOR OPERATED
- BUTTERFLY VALVE
- FEM
- FLOW METER
- PRESSURE REDUCING VALVE
- XXX.XX
- ELEVATION POINT
- XXXX
- COORDINATE POINT
- XXX
- TREE TO PROTECT
- XXX
- TREE TO REMOVE

- SECTION CORNER
- 1/4 SECTION CORNER
- 5000
- CONTOUR W/ ELEVATION
- 28
- SURVEY CONTROL POINT W/ POINT NUMBER
- BORING PLM\_4.1-X-XX
- BORE HOLE WITH NUMBER
- BORE HOLE WITH PIEZOMETER
- COMBINATION AIR RELEASE VALVE (PLAN)
- SURGE COMBINATION AIR RELEASE VALVE (PLAN)
- BLOW OFF ASSEMBLY (PLAN)
- TEMPORARY BLOWOFF
- LOCATE STATION
- ACCESS MANWAY
- PH-X
- POTHOLE
- HANDHOLE
- TEST STATION
- SURFACE MONITORING POINT
- SCALE - PLAN VIEW
- SCALE - PLAN AND PROFILE

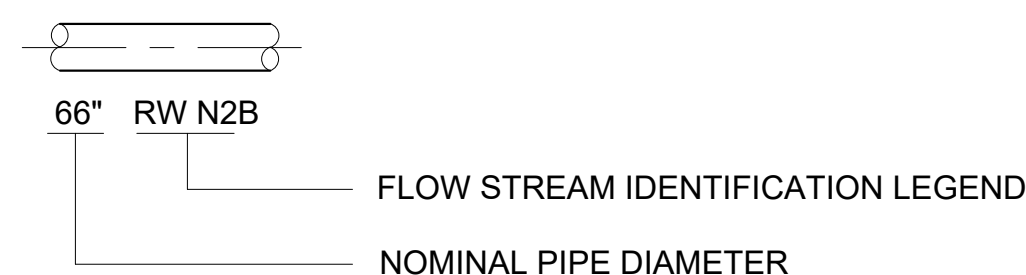
**SHEET IDENTIFICATION AND PLAN CALLOUTS**



**DETAIL AND SECTION DESIGNATION**



**PIPING DESIGNATION**



DSGN	M. CARLSON					
DR	S. SUDERMAN					
CHK	R. BROWN					
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY	APVD

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PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
LEGEND

SHEET	
DWG	LUG-03
DATE	11/5/19
PROJ	196999



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 BY: COGLIANESE, CHRISTOPHER J.



DSGN	M. CARLSON					
DR	C.J. COGLIANESE					
CHK	R. BROWN					
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY	APVD

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PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
 EXISTING CONDITIONS  
 SITE

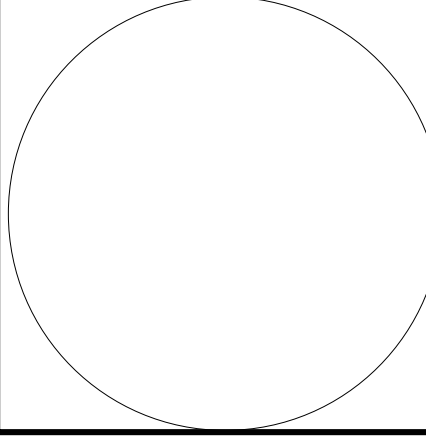
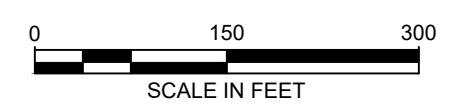
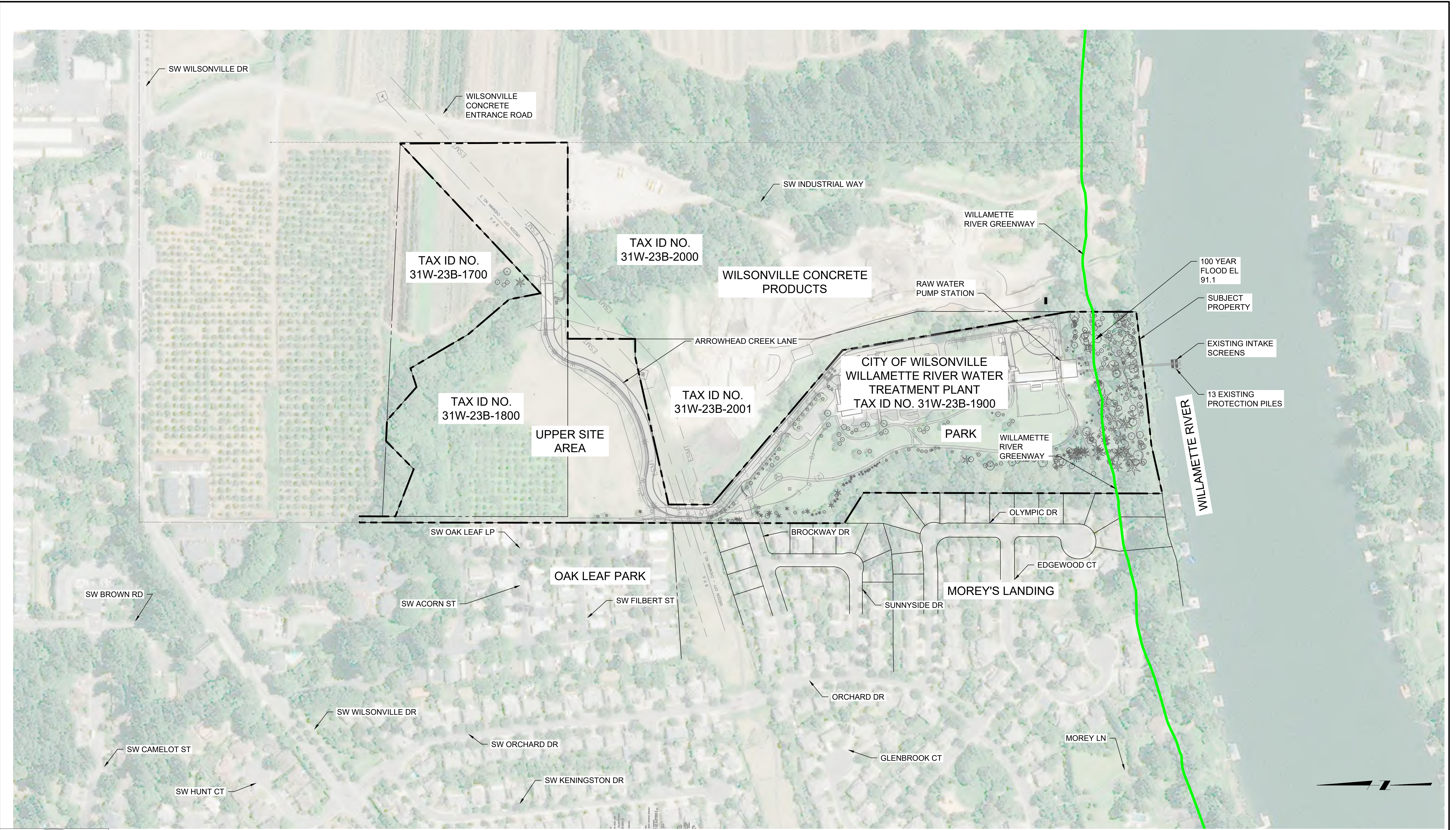
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DWG	LUP-01
DATE	07/12/19
PROJ	196999



BY: COGLIANESE, CHRISTOPHER J.

PLOT DATE: Thursday, July 11, 2019 11:37:20 AM

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DR	C. J. COGLIANESE						
CHK	R. BROWN						
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY	APVD	

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PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
 EXISTING CONDITIONS VICINITY

SHEET	5
DWG	LUP-02
DATE	07/12/19
PROJ	196999



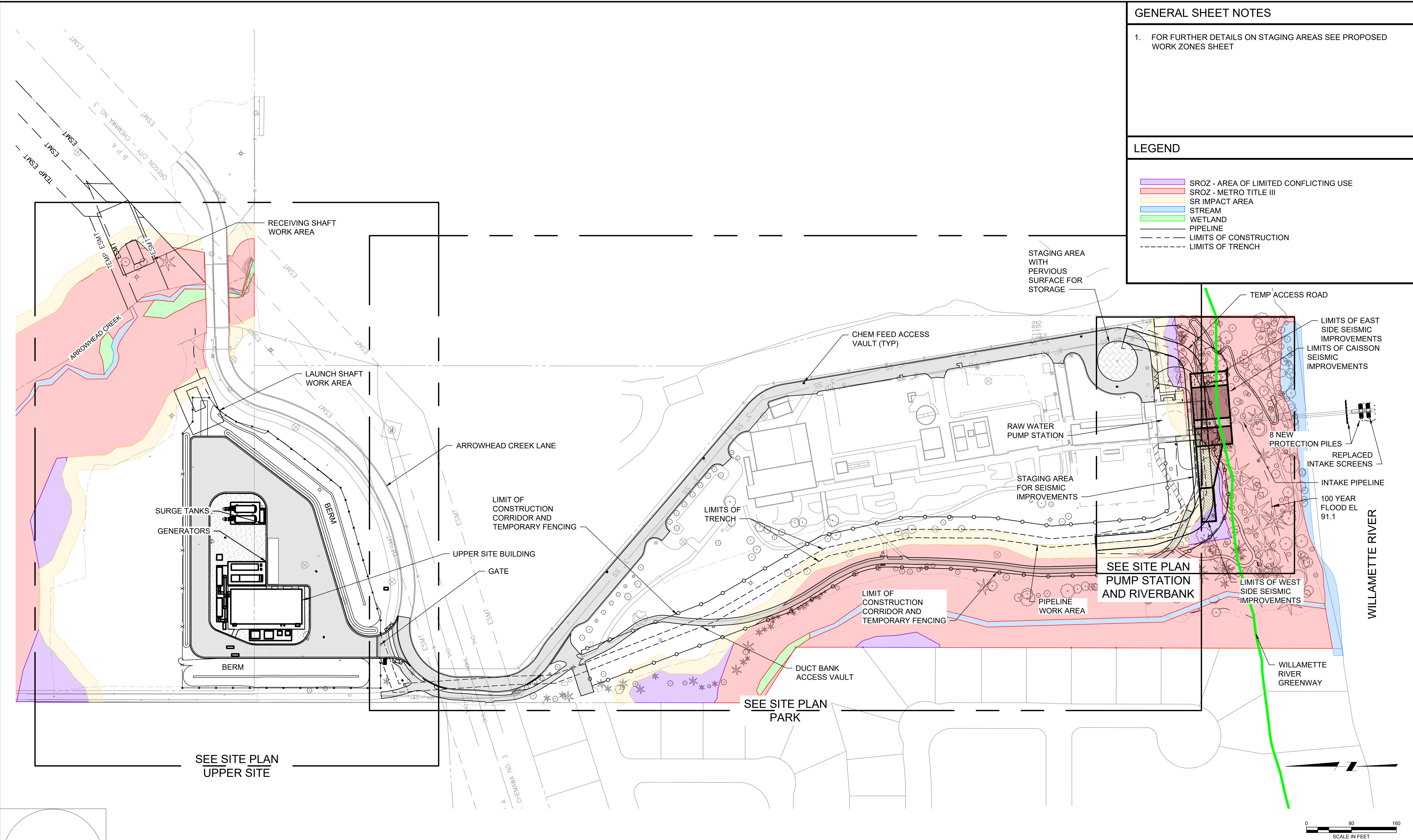
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 PLOT DATE: Tuesday, November 5, 2019 12:50:06 PM  
 BY: COGLIANESE, CHRISTOPHER J.

**GENERAL SHEET NOTES**

- FOR FURTHER DETAILS ON STAGING AREAS SEE PROPOSED WORK ZONES SHEET

**LEGEND**

- SROZ - AREA OF LIMITED CONFLICTING USE
- SROZ - METRO TITLE III
- SR IMPACT AREA
- STREAM
- WETLAND
- PIPELINE
- LIMITS OF CONSTRUCTION
- LIMITS OF TRENCH



DSGN	M. CARLSON					
DR	C.J. COGLIANESE					
CHK	R. BROWN					
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY	APVD

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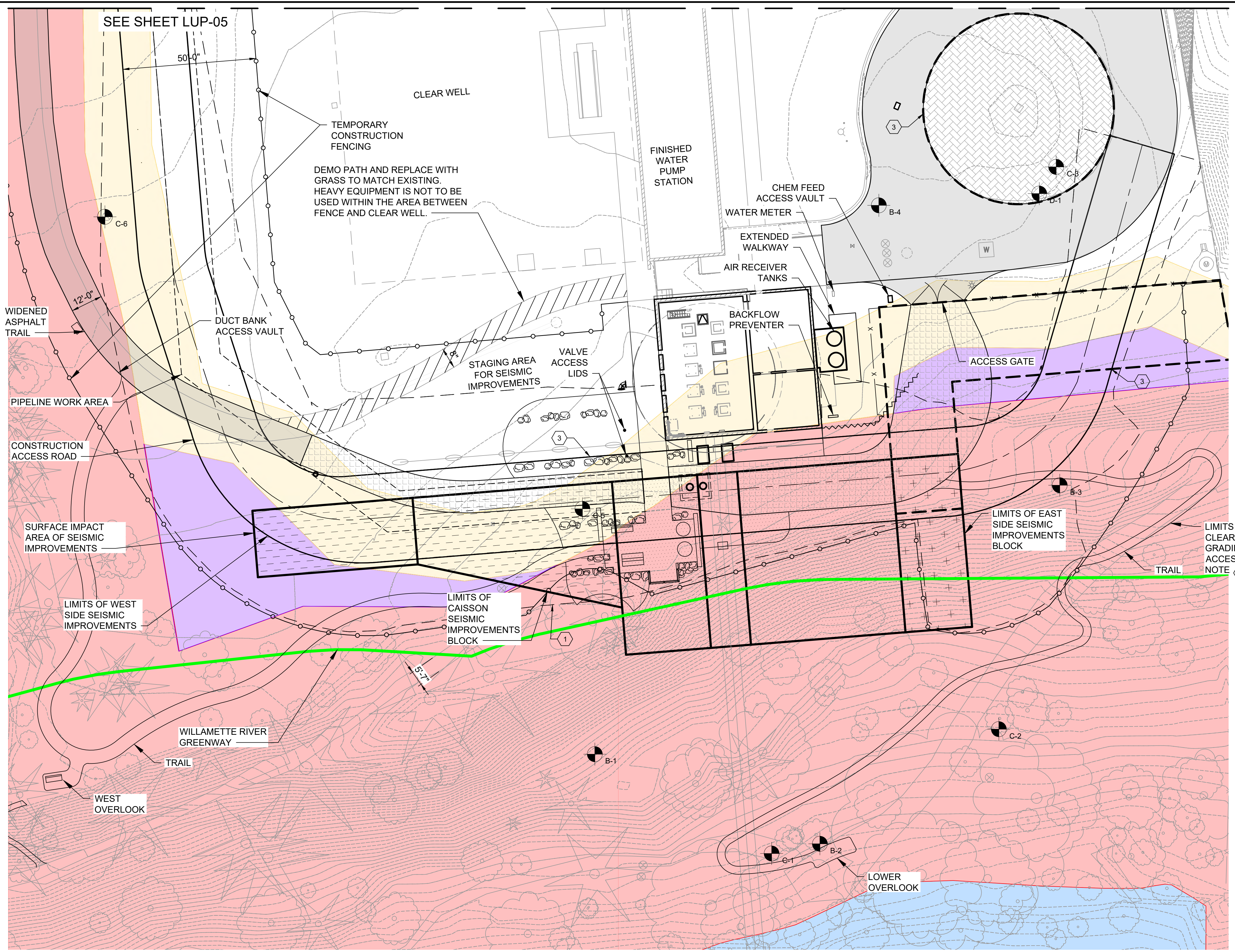
**PRELIMINARY, SUBJECT TO CHANGE**  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
**SITE PLAN OVERALL**

SHEET	6
DWG	LUP-03
DATE	11/5/19
PROJ	196999



DWG FILE: C:\pwworking\byw\_american\wvsp\sheet\sets\seismic modifications (SM)\RWF\_1.0\_SMC-03.dwg  
 PLOT DATE: Tuesday, November 5, 2019 12:40:39 PM  
 BY: COGLIANESE, CHRISTOPHER J.



1 PLAN

**GENERAL SHEET NOTES**

1. SEE GEG-07 FOR SURVEY CONTROL AND DATUM INFORMATION.
2. SEE GEC-01 FOR CIVIL LEGEND AND UTILITY INFORMATION.
3. SEE GEC-02 TO 03 FOR ADDITIONAL COORDINATE, LINE, AND CURVE INFORMATION.
4. TREES NOT IDENTIFIED FOR DEMOLITION SHALL BE PROTECTED IN PLACE PER CITY OF WILSONVILLE DETAIL RD-1230.

**SHEET KEYNOTES**

**LEGEND**

- CAISSON SEISMIC IMPROVEMENTS BLOCK
- EAST SIDE SEISMIC IMPROVEMENTS BLOCK
- WEST SIDE SEISMIC IMPROVEMENTS BLOCK
- CONSTRUCTION AND STAGING AREA
- SROZ - AREA OF LIMITED CONFLICTING USE
- SROZ - METRO TITLE III
- SR IMPACT AREA
- WETLAND

TABULATION OF PROPOSED LAND AREAS:

NEW BUILDING AREA	174.38 sq ft
NEW PAVED AREA	9532.58 sq ft
REPLACED LANDSCAPED AREA	24283.73 sq ft

\*ONLY INCLUDES RIVER BANK AND PUMP STATION IMPROVEMENTS, FOR PARK IMPROVEMENTS SEE LUP-05

DSGN	M. CARLSON				
DR	C.J. COGLIANESE				
CHK	R. BROWN				
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY

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PRELIMINARY, SUBJECT TO CHANGE

LAND USE PERMIT (NOT FOR CONSTRUCTION)

LAND USE PERMIT  
 SITE PLAN  
 PUMP STATION AND RIVER BANK

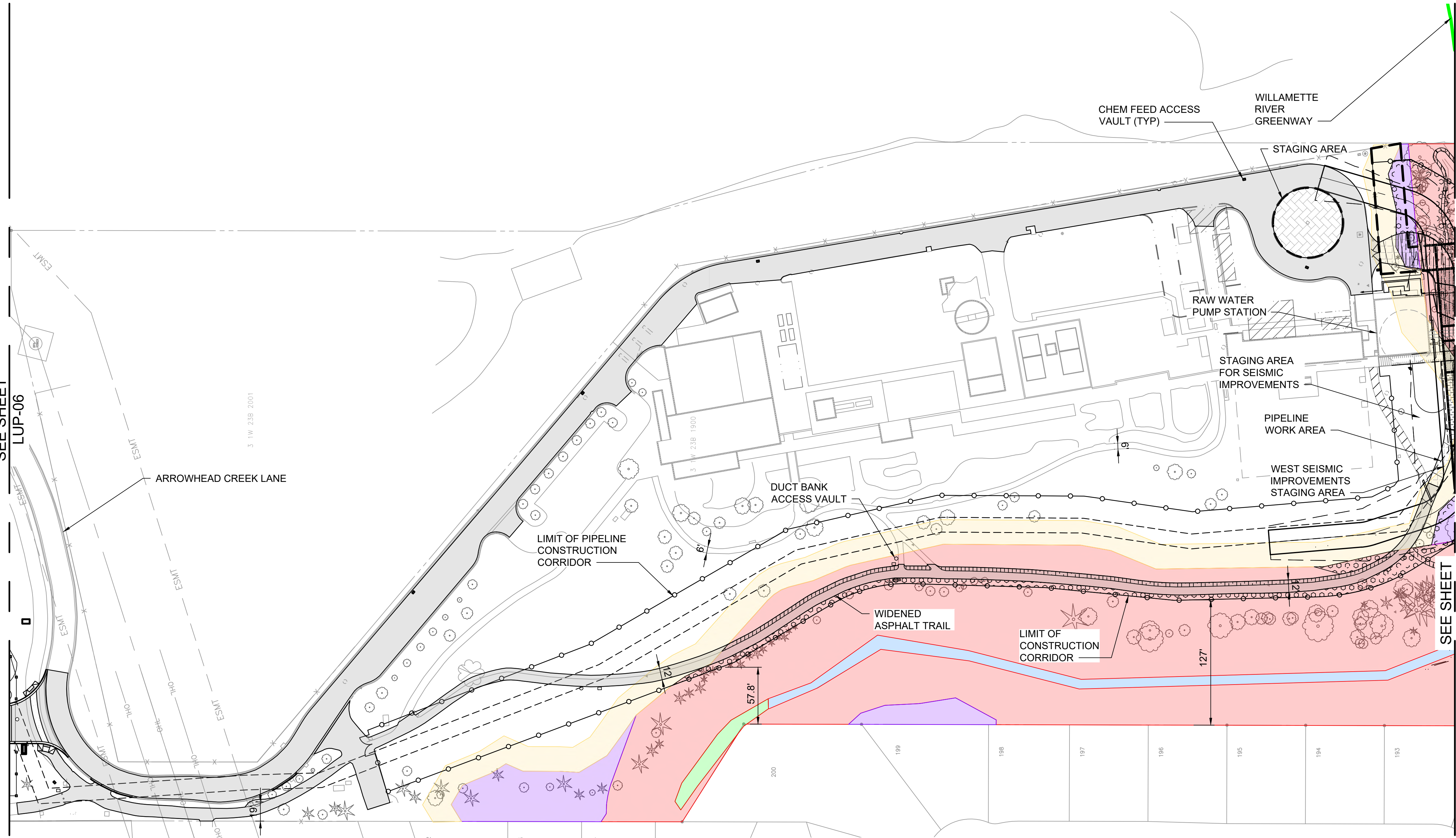
SHEET	7
DWG	LUP-04
DATE	11/5/19
PROJ	196999



BY: COGLIANESE, CHRISTOPHER J.

PLOT DATE: Tuesday, November 5, 2019 10:31:39 AM

DWG FILE: C:\pwworking\bwv\_america\wwsp\sheet\sets\general\GE\IRWF\_1.0\_GEG-03.dwg



**GENERAL SHEET NOTES**

- SEE SHEET LUP-22 FOR TREE PROTECTION PLAN

**LEGEND**

- SROZ - AREA OF LIMITED CONFLICTING USE
- SROZ - METRO TITLE III
- SR IMPACT AREA
- STREAM
- WETLAND
- PIPELINE
- LIMITS OF CONSTRUCTION
- LIMITS OF TRENCH

**TABULATION OF PROPOSED LAND AREAS**

NEW BUILDING AREA	0 sq ft
NEW PAVED AREA	3671.41 sq ft
REPLACED LANDSCAPED AREA	46270.95 sq ft

\*ONLY INCLUDES PARK IMPROVEMENTS, FOR RIVER BANK AND UPPER SITE SEE LUP-04 AND LUP-06

SEE SHEET LUP-06

SEE SHEET LUP-04



DSGN	M. CARLSON				
DR	C.J. COGLIANESE				
CHK	R. BROWN				
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY

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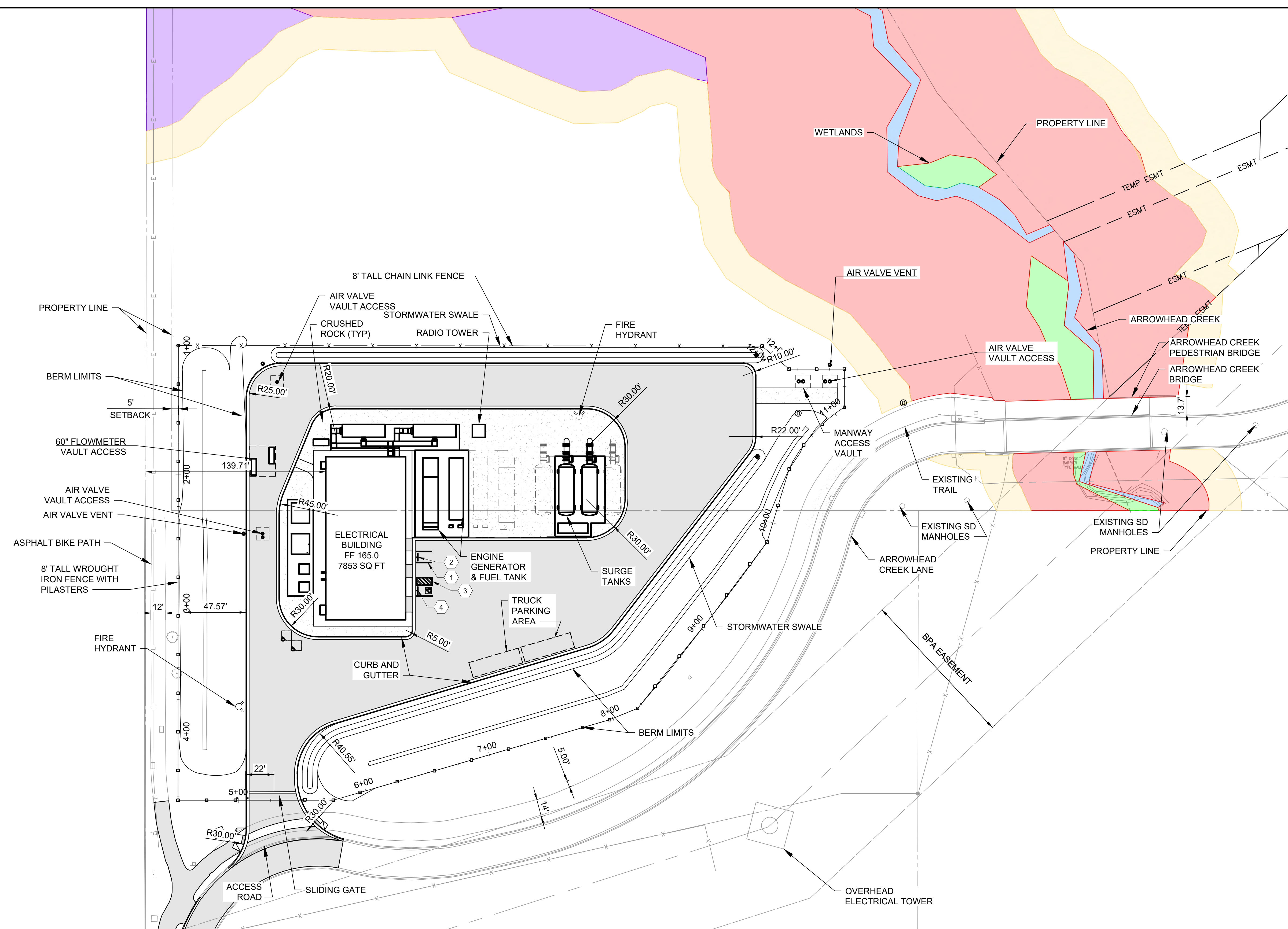
PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
 SITE PLAN  
 PARK

SHEET	8
DWG	LUP-05
DATE	11/5/19
PROJ	196999



DWG FILE: C:\pwworking\bwv\_america\wsp\sheet\sets\upper site power building (US)RWF\_1.0 USC-01.dwg PLOT DATE: Wednesday, July 10, 2019 1:43:12 PM BY: COGLIANESE, CHRISTOPHER J.



**GENERAL SHEET NOTES**

- SEE SHEET LUP-22 FOR TREE PROTECTION PLAN

**SHEET KEYNOTES**

- 4 IN WIDE WHITE TAPE, 12 FT LENGTH. 3M STAMARK PAVEMENT MARKING TAPE, SERIES 270 OR APPROVED EQUAL.
- CONCRETE WHEEL STOP, 71IN LENGTH, 8 IN WIDE BASE, 5IN TALL.
- UNLOADING ZONE, 6 IN WIDE WHITE TAPE, 12 FT LENGTH. 3M STAMARK PAVEMENT MARKING TAPE, SERIES 270 OR APPROVED EQUAL.
- UNIVERSAL PARKING SIGN 60 IN TALL.

**LEGEND**

- FACILITIES
- FUTURE
- FUTURE ROAD BOUNDARY
- FUTURE WRWTP FACILITIES
- SROZ - AREA OF LIMITED CONFLICTING USE
- SROZ - METRO TITLE III
- SR IMPACT AREA
- STREAM
- WETLAND

TABULATION OF PROPOSED LAND AREAS:

NEW BUILDING AREA	16701.06 sq ft
NEW PAVED AREA	80993.75 sq ft
REPLACED LANDSCAPED AREA	114141.53 sq ft

\*ONLY INCLUDES UPPER SITE IMPROVEMENTS, FOR PARK SEE LUP-05.

SEE SHEET LUP-05

**1 SITE PLAN**

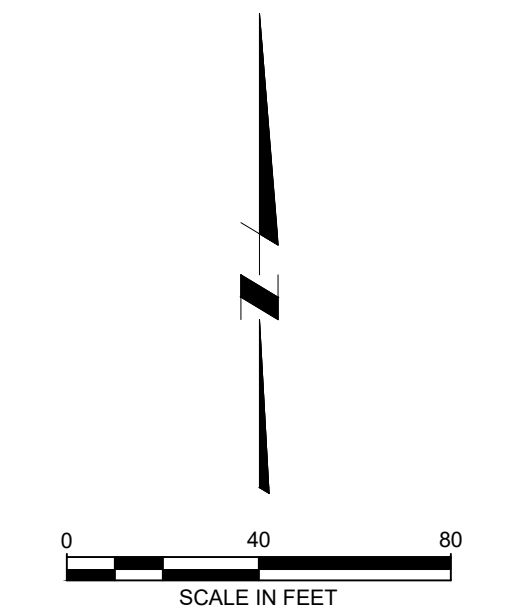
DSGN	M. CARLSON				
DR	C.J. COGLIANESE				
CHK	R. BROWN				
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY

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 RWF\_1.0

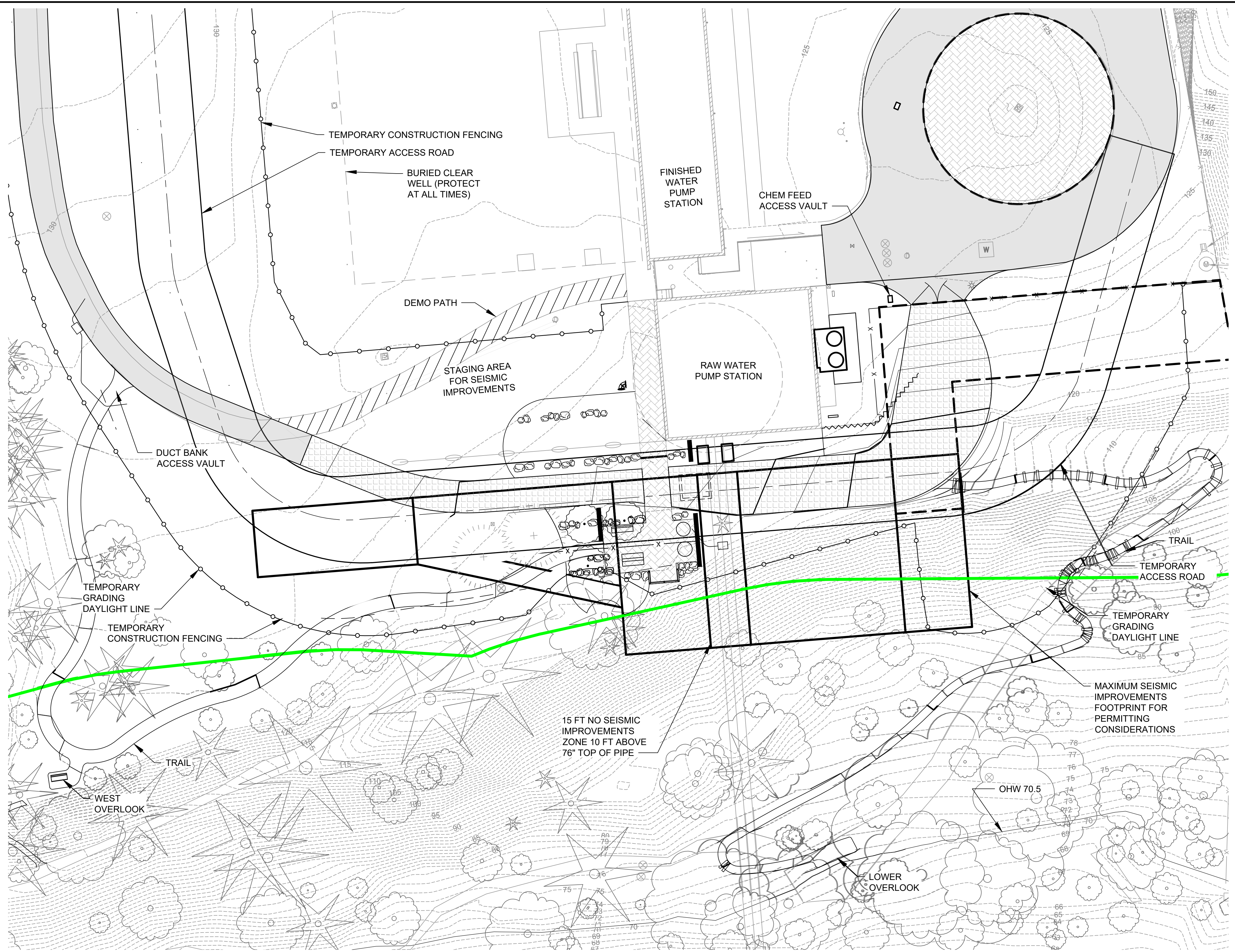
PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**



LAND USE PERMIT	SHEET 9
SITE PLAN	DWG LUP-06
UPPER SITE	DATE 07/12/19
	PROJ 196999



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 BY: COGLIANESE, CHRISTOPHER J.



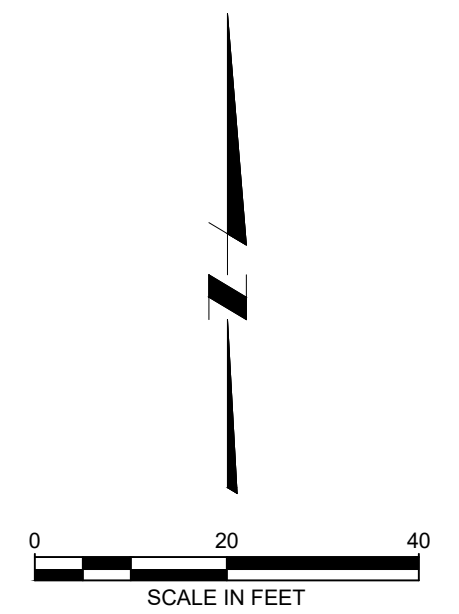
1 PLAN

**GENERAL SHEET NOTES**

- SEE SHEET SMC-01 FOR TREE PROTECTION PLAN

**SHEET KEYNOTES**

**LEGEND**



DSGN	M. CARLSON				
DR	C.J. COGLIANESE				
CHK	R. BROWN				
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY

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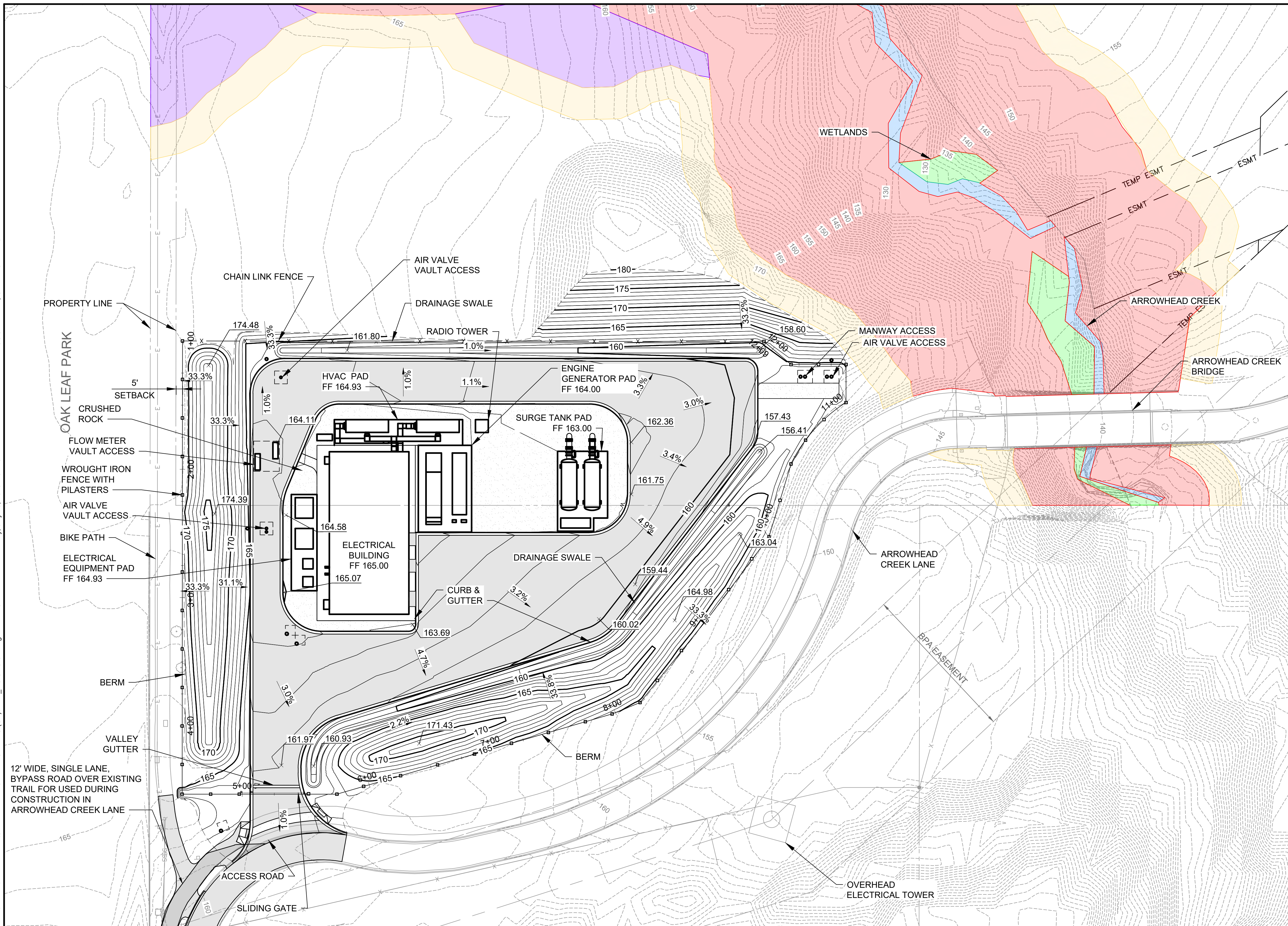
**PRELIMINARY, SUBJECT TO CHANGE**  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
 GRADING PLAN  
 PUMP STATION AND RIVERBANK

SHEET	10
DWG	LUP-07
DATE	11/5/19
PROJ	196999



DWG FILE: C:\pwworking\bwv\_america\wsp\sheet\sets\upper site power building (US)RWF\_1.0 USC-02.dwg PLOT DATE: Wednesday, July 10, 2019 1:57:26 PM BY: COGLIANESE, CHRISTOPHER J.

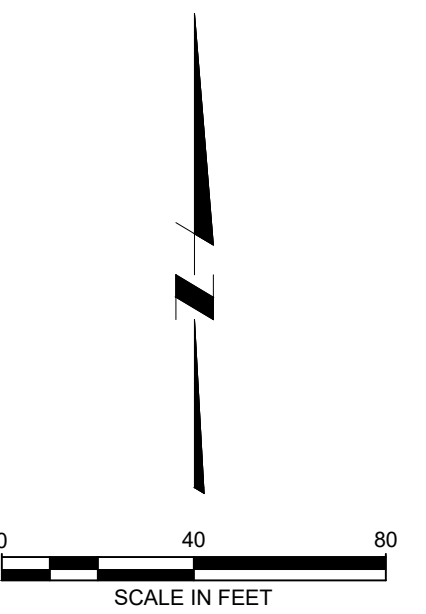


GENERAL SHEET NOTES

SHEET KEYNOTES

LEGEND

- SROZ - AREA OF LIMITED CONFLICTING USE
- SROZ - METRO TITLE III
- SR IMPACT AREA
- STREAM
- WETLAND
- FACILITIES
- FUTURE
- FUTURE ROAD BOUNDARY
- FUTURE WRWTP FACILITIES



1 SITE GRADING PLAN

DSGN	M. CARLSON		
DR	C.J. COGLIANESE		
CHK	R. BROWN		
APVD	J. MCMULLEN		
	NO.	DATE	REVISION
	BY	APVD	

VERIFY SCALE  
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PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
 GRADING PLAN  
 UPPER SITE

SHEET	11
DWG	LUP-08
DATE	07/12/19
PROJ	196999



BY: ROSER

PLOT DATE: Monday, June 24, 2019 4:08:14 PM

DWG FILE: L:\Project\164001\18439\CADD\ACADD\vwg\LOWER SITE ELECTRICAL BUILDING\RWF\_01 ECC\_02.dwg



1 PLAN






GENERAL SHEET NOTES

1. FENCE, INLET PROTECTION, BIOFILTER BAGS, CONSTRUCTION ENTRANCE TO BE REMOVED FROM SITE FOLLOWING CONSTRUCTION
2. ADD INLET PROTECTION TO ALL INLETS WITHIN PROJECT LIMITS

SHEET KEYNOTES

1. INSTALL INLET PROTECTION TYPE 5  
SEE CITY STANDARD DETAIL S-2127 SHEET ECC-03
2. INSTALL HI VISIBILITY FENCE  
PROTEX FENCE - SF2048L-12P OR APPROVED EQUAL.
3. INSTALL CONSTRUCTION ENTRANCE  
SEE CITY STANDARD DETAIL S-2240 SHEET ECC-03  
(REMOVE PRIOR TO FINAL PAVING)
4. INSTALL BIOFILTER BAG OVERLAND FLOW  
SEE CITY STANDARD DETAIL S-2250 SHEET ECC-03

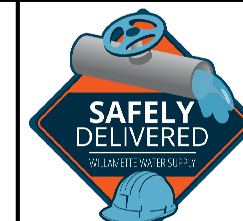
LEGEND

-  INLET PROTECTION TYPE 5
-  BIOFILTER BAG OVERLAND FLOW
-  CONSTRUCTION ENTRANCE
-  HIGH VISIBILITY FENCE
-  TEMPORARY STAGING AND STORAGE AREA  
(SEE GEG-03 SHEET)
-  FENCE LINE

DSGN	LCB						
DR	MR						
CHK	D. CLEMENTS						
APVD	AMC	NO.	DATE	REVISION	BY	APVD	

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 808 SW 3RD AVE.  
 PORTLAND, OR 97204  
 503.287.6825  
 www.otak.com



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 RWF\_1.0

PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
**EROSION CONTROL PLAN**  
 PUMP STATION AND RIVER BANK

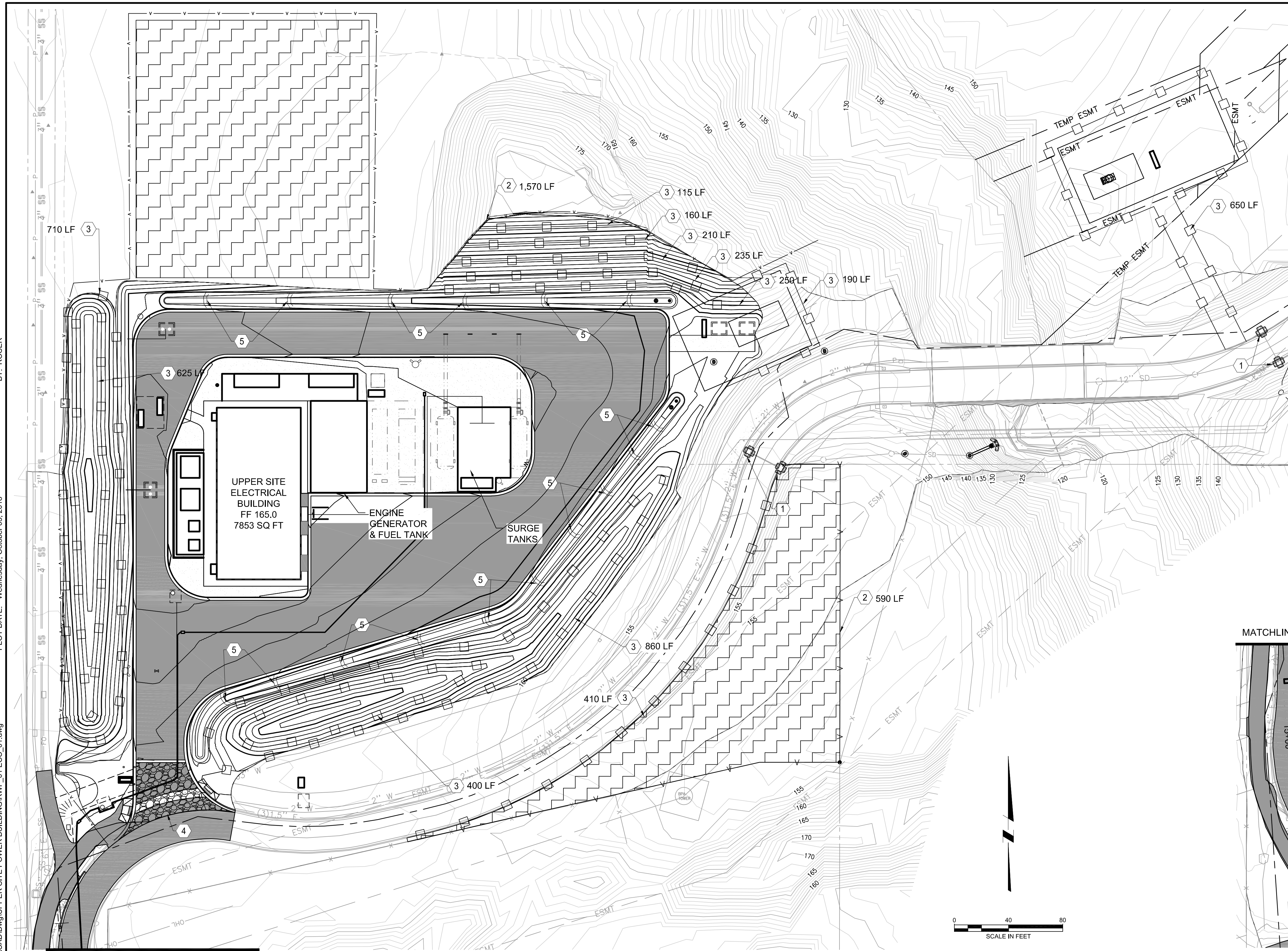
SHEET	12
DWG	LUP-09
DATE	11/5/19
PROJ	196999



BY: ROSER

PLOT DATE: Wednesday, October 03, 2018

DWG FILE: L:\Project\184001\184390\CADD\DWG\UPPER SITE POWER BUILDING\RWF\_01 ECC\_01.dwg



### GENERAL SHEET NOTES

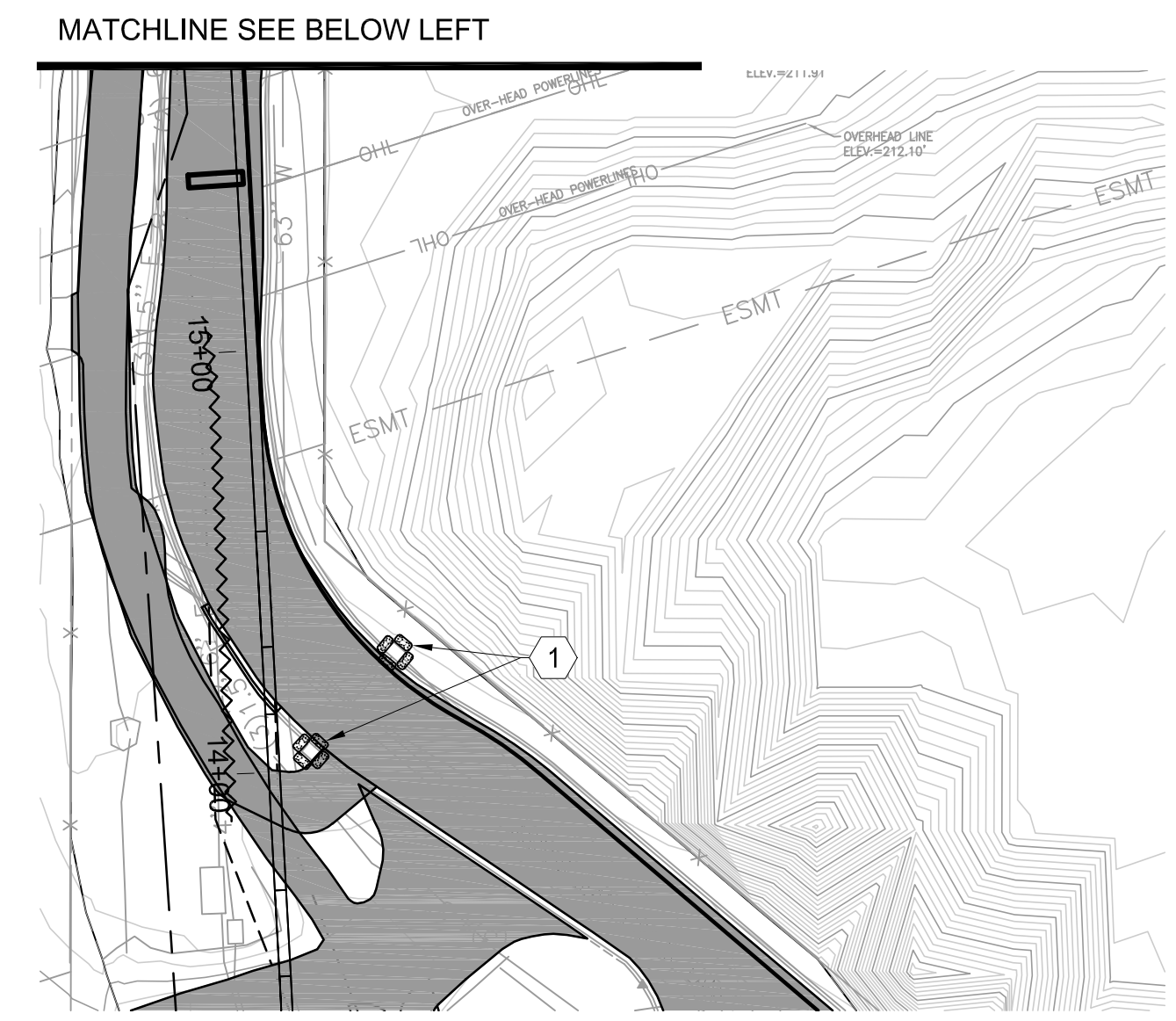
1. FENCE, INLET PROTECTION, BIOFILTER BAGS, CONSTRUCTION ENTRANCE TO BE REMOVED FROM SITE FOLLOWING CONSTRUCTION.
2. SEED ALL DISTURBED DIRT WITH EROSION CONTROL SEEDING.

### SHEET KEYNOTES

1. INSTALL INLET PROTECTION TYPE 5  
SEE CITY STANDARD DETAIL S-2127 ON SHEET ECC-03
2. INSTALL HI VISIBILITY FENCE  
PROTEX FENCE - SF2048L-12P OR APPROVED EQUAL.
3. INSTALL BIOFILTER BAG OVERLAND FLOW  
SEE CITY STANDARD DETAIL S-2250 SHEET ECC-03
4. INSTALL CONSTRUCTION ENTRANCE  
SEE CITY STANDARD DETAIL S-2240 SHEET ECC-03  
(REMOVE PRIOR TO FINAL PAVING)
5. INSTALL BIOFILTER BAG DITCHES AND SWALES  
SEE CITY STANDARD DETAIL S-2255 SHEET ECC-03

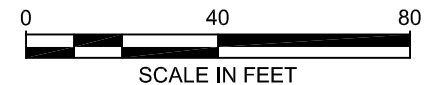
### LEGEND

- INLET PROTECTION TYPE 5
- BIOFILTER BAG OVERLAND FLOW
- HI VISIBILITY FENCE
- CONSTRUCTION ENTRANCE
- BIOFILTER BAG DITCHES AND SWALES
- TEMPORARY STAGING AND STORAGE AREA  
(SEE "GEG-03" SHEET)



MATCHLINE SEE ABOVE RIGHT

1 PLAN



DSGN	LCB						
DR	MR						
CHK	D. CLEMENTS						
APVD	AMC	NO.	DATE	REVISION	BY	APVD	

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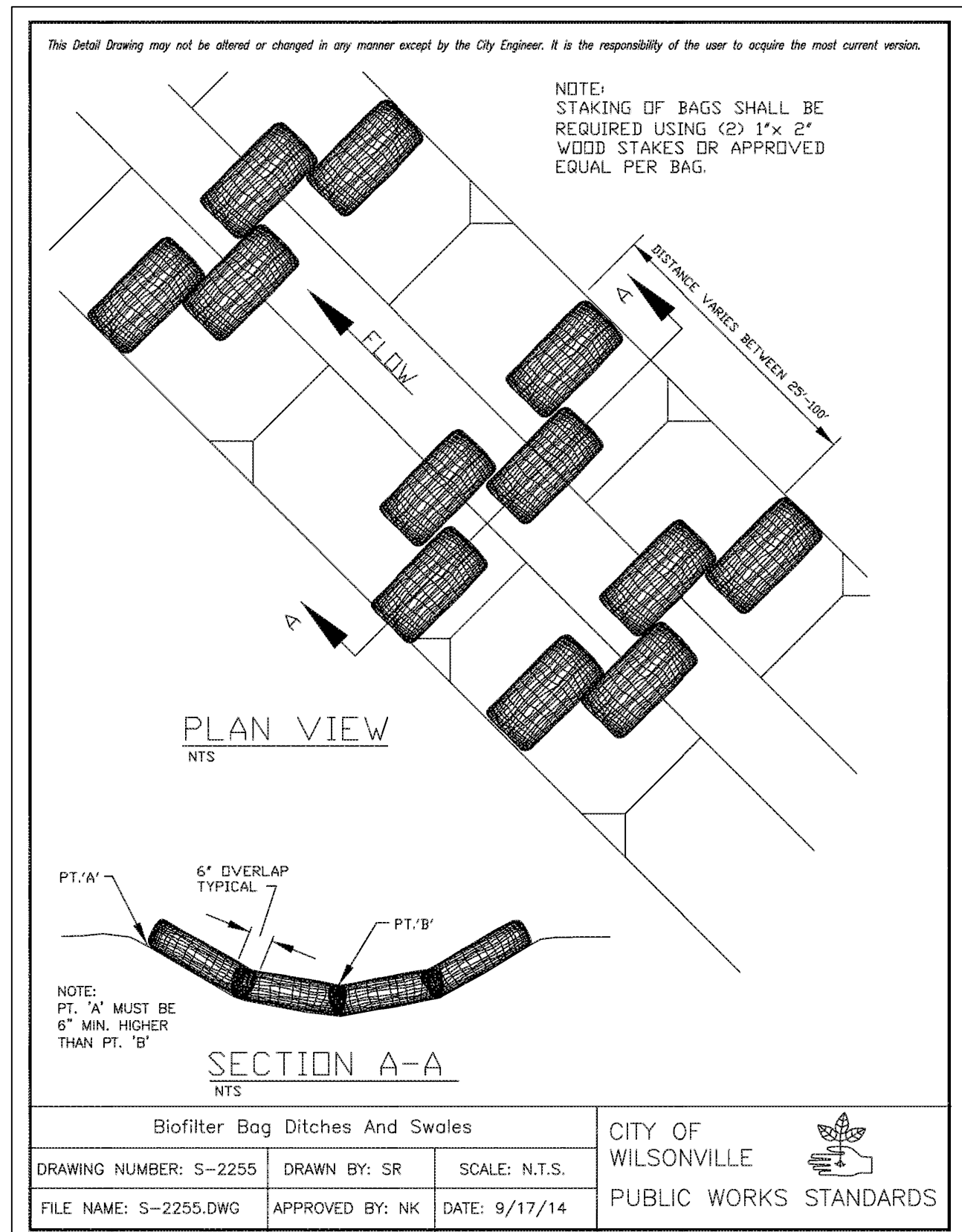
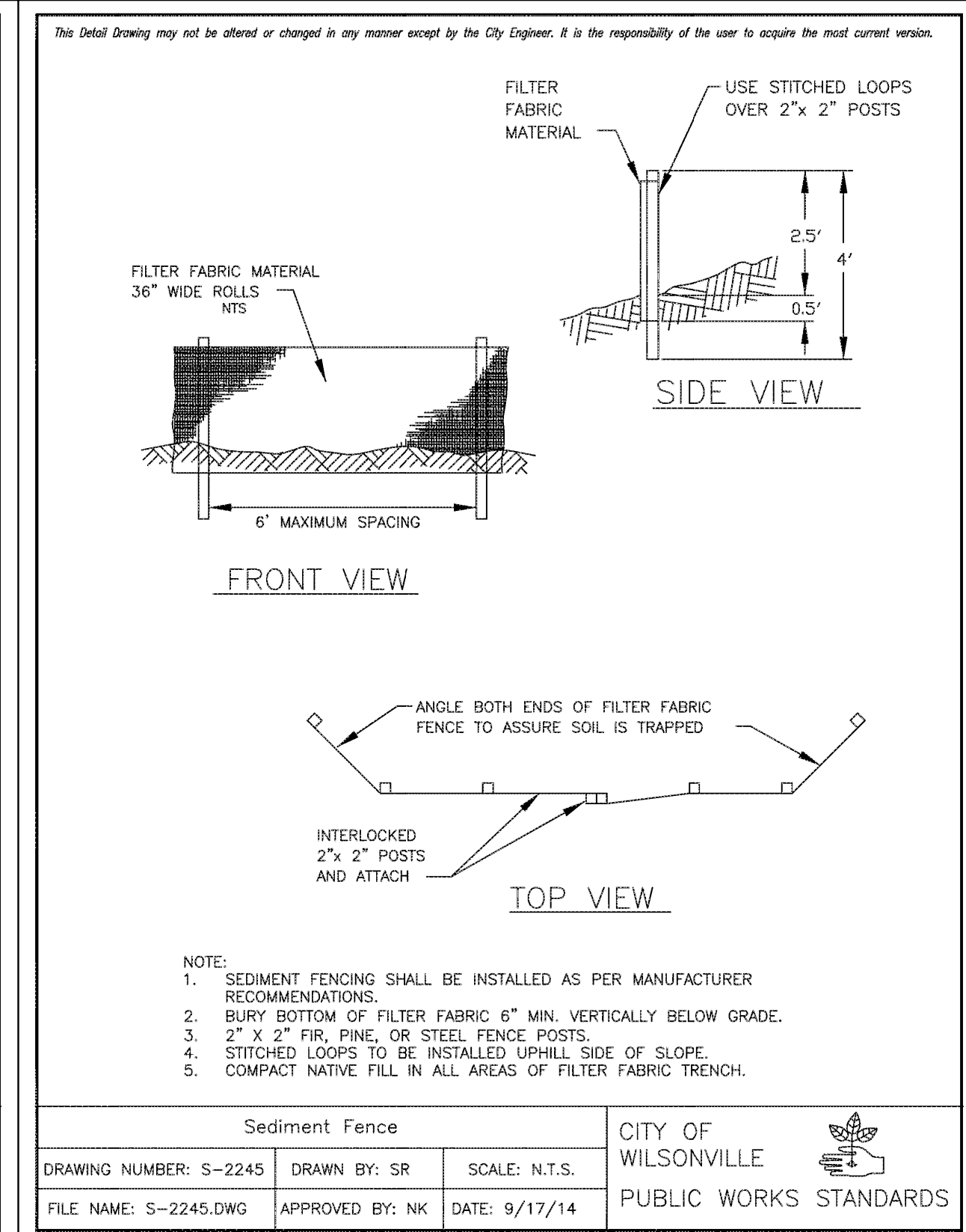
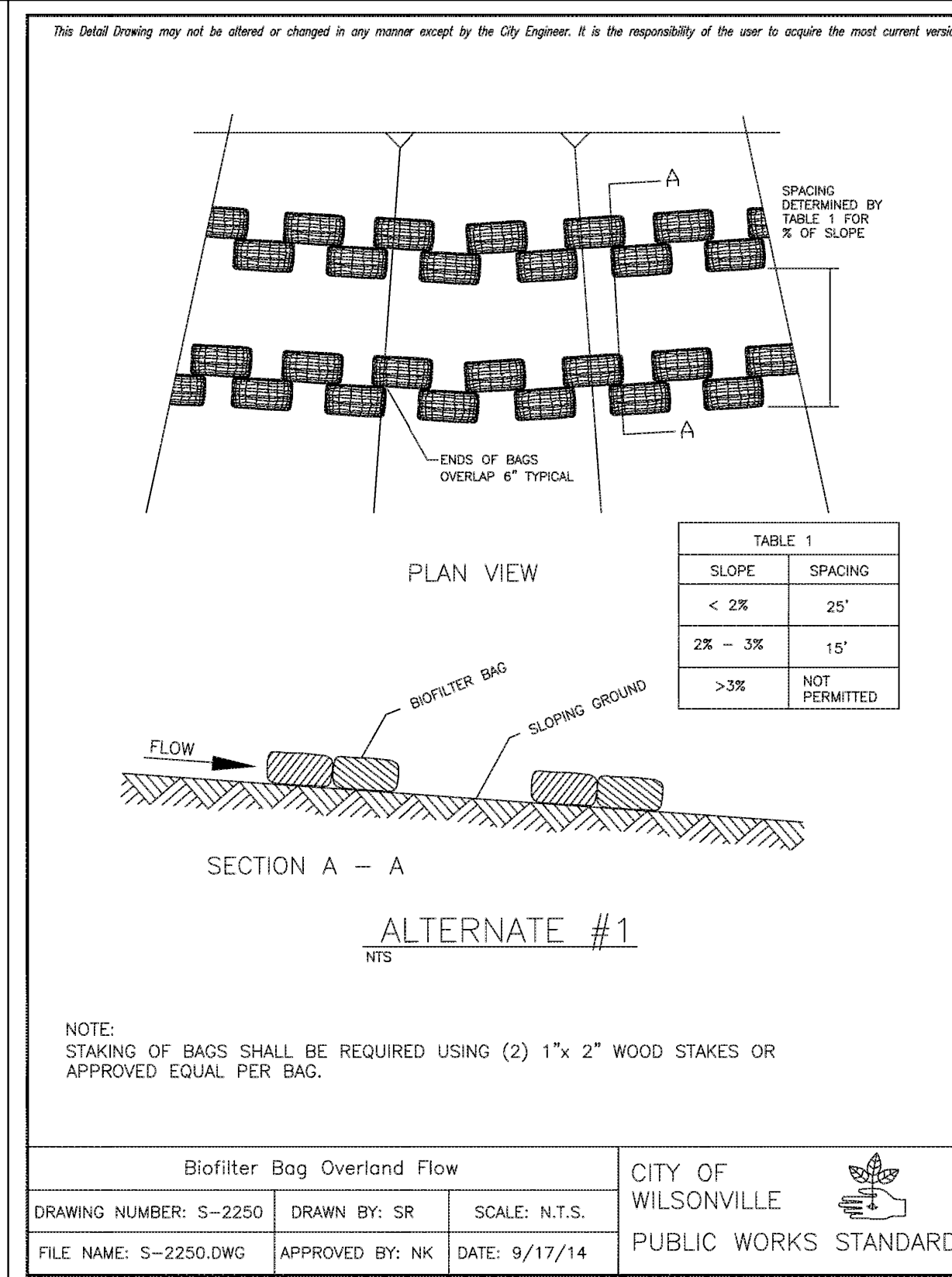
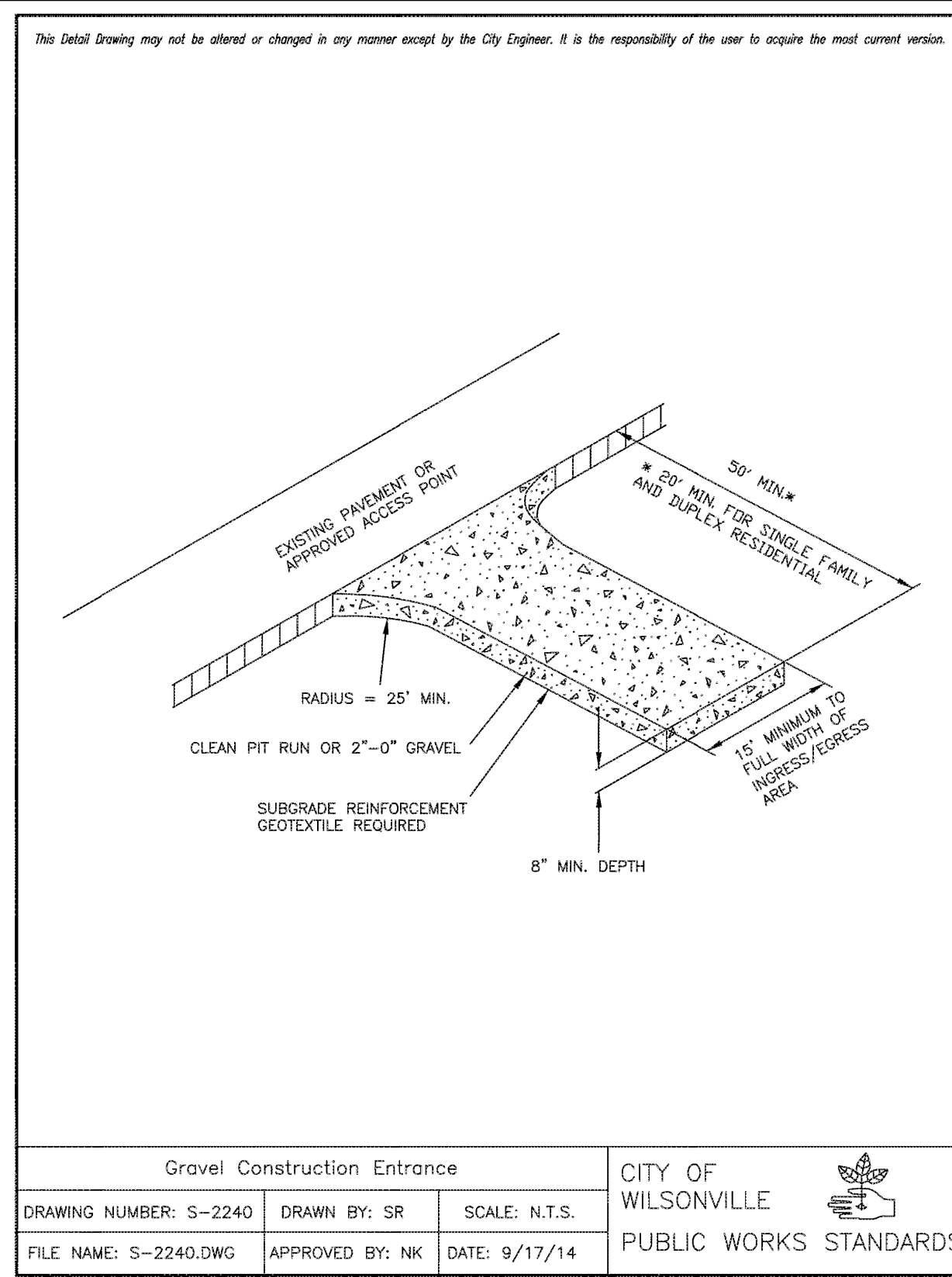
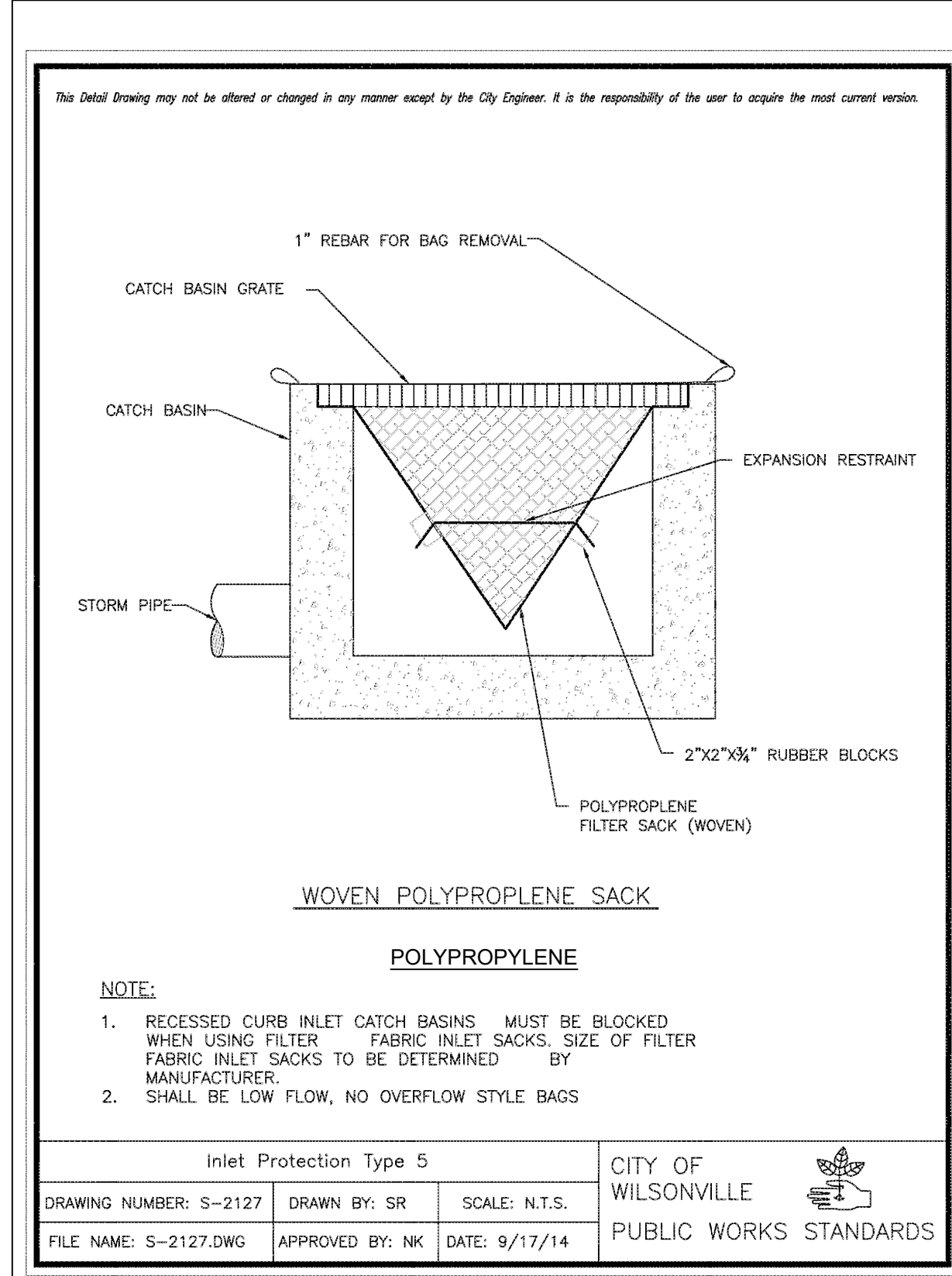
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RWF\_1.0

PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
EROSION CONTROL PLAN  
UPPER SITE

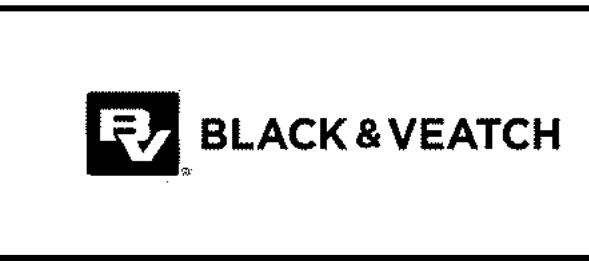
SHEET	13
DWG	LUP-10
DATE	11/5/19
PROJ	196999





DSGN						
DR	MR					
CHK	AMC					
APVD	AMC	NO.	DATE	REVISION	BY	APVD

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PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
EROSION CONTROL PLAN  
DETAILS

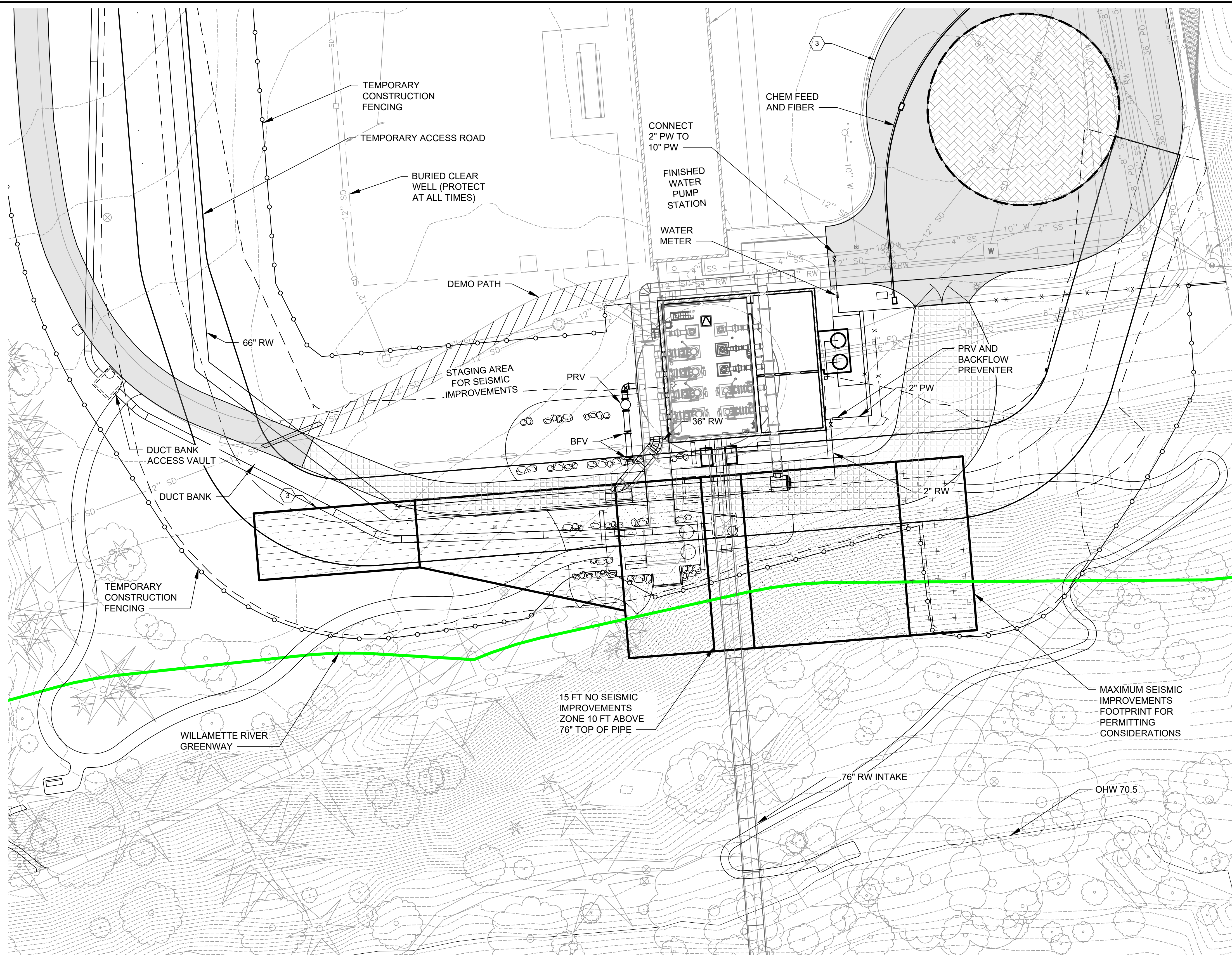
SHEET 14
DWG LUP-11
DATE 07/12/19
PROJ 196999



BY: COGLIANESE, CHRISTOPHER J.

PLOT DATE: Tuesday, November 5, 2019 1:14:48 PM

DWG FILE: C:\pwworking\bwv\_americas\wmsp\sheet\sets\seismic modifications (SM)\RWF\_1.0\_SMC-03.dwg



1 PLAN

GENERAL SHEET NOTES

- 1. SEE SHEET SMC-01 FOR TREE PROTECTION PLAN

SHEET KEYNOTES

(Empty section for sheet keynotes)

LEGEND

- CAISSON SEISMIC IMPROVEMENTS BLOCK
- EAST SIDE SEISMIC IMPROVEMENTS BLOCK
- WEST SIDE SEISMIC IMPROVEMENTS BLOCK
- CONSTRUCTION AND STAGING AREA

**Oregon 811**  
UTILITY NOTIFICATION CENTER

0 20 40  
SCALE IN FEET

DSGN	M. CARLSON				
DR	C.J. COGLIANESE				
CHK	R. BROWN				
APVD	J. MCMULLEN				
	NO.	DATE	REVISION	BY	APVD

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WILLAMETTE WATER SUPPLY PROGRAM  
RWF\_1.0

**PRELIMINARY, SUBJECT TO CHANGE**  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
UTILITY PLAN  
PUMP STATION AND RIVER BANK

SHEET	15
DWG	LUP-12
DATE	11/5/19
PROJ	196999

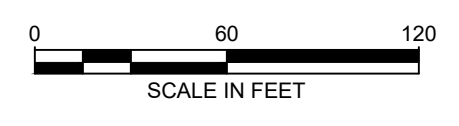
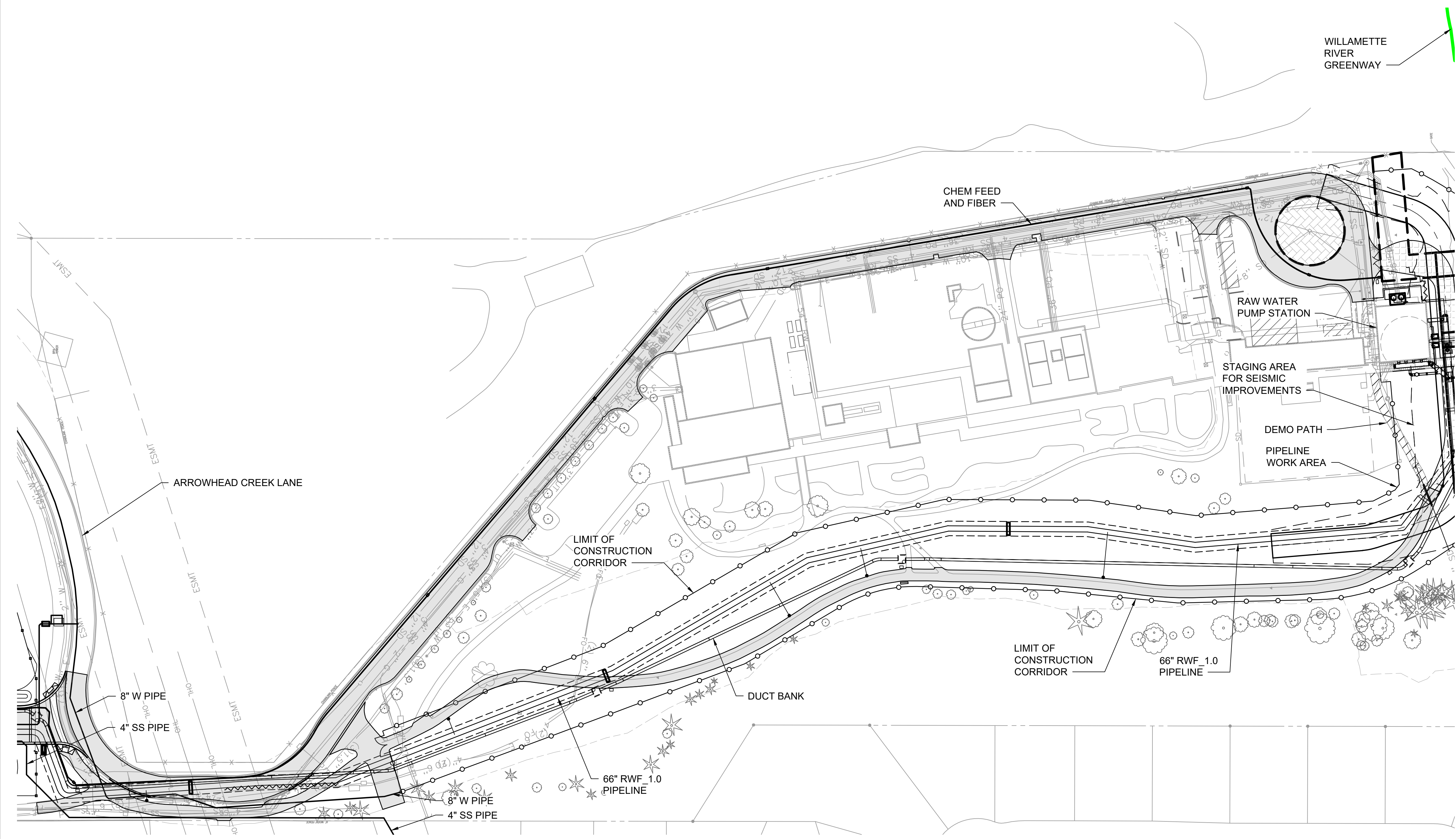


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 PLOT DATE: Tuesday, November 5, 2019 12:44:13 PM  
 BY: COGLIANESE, CHRISTOPHER J.

GENERAL SHEET NOTES

LEGEND

- PIPELINE
- - - LIMITS OF CONSTRUCTION
- - - LIMITS OF TRENCH



DSGN	M. CARLSON					
DR	C.J. COGLIANESE					
CHK	R. BROWN					
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY	APVD

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 WILLAMETTE WATER SUPPLY PROGRAM  
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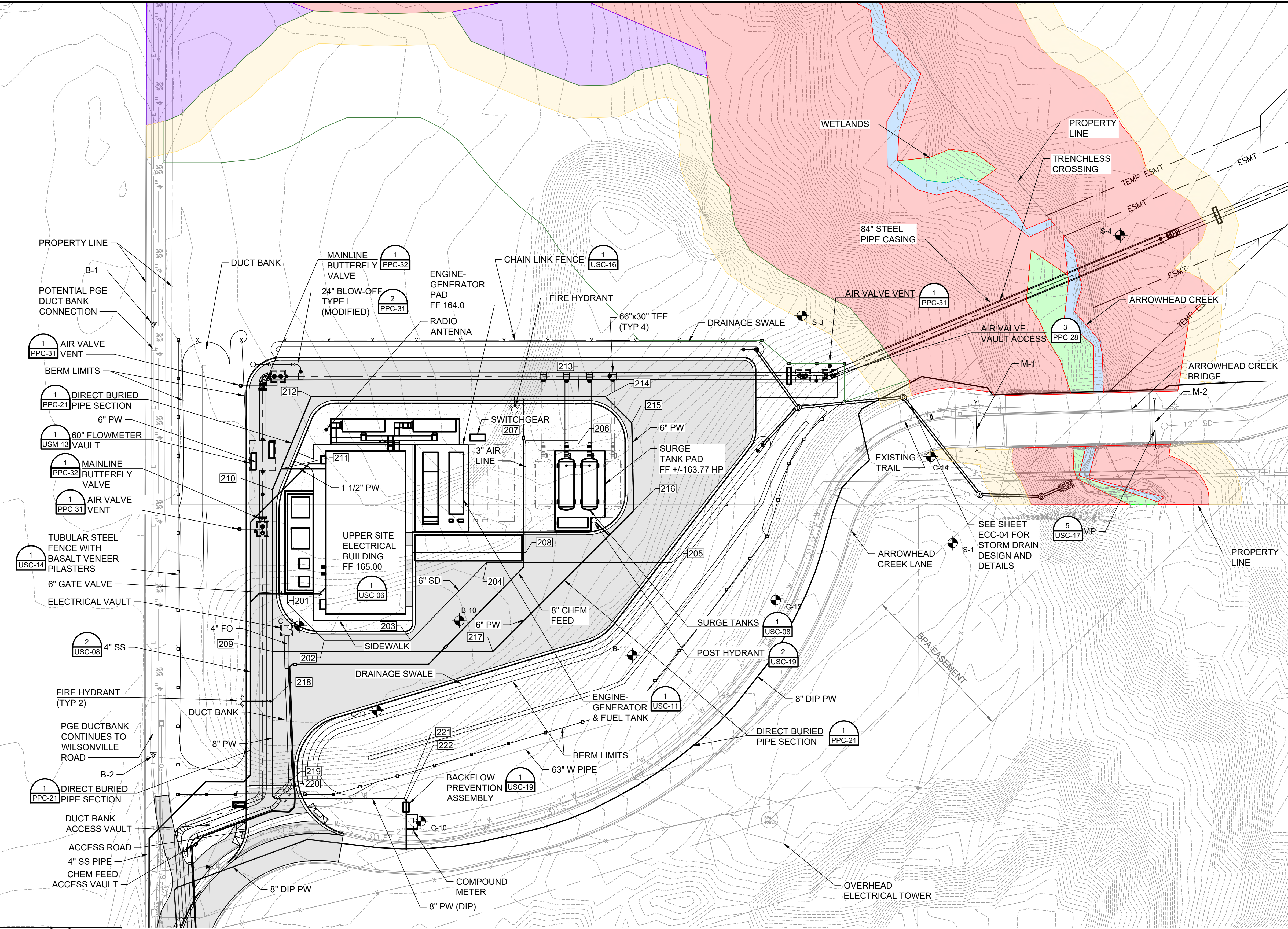
PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
 UTILITY PLAN  
 PARK

SHEET	16
DWG	LUP-13
DATE	11/5/19
PROJ	196999



DWG FILE: C:\pwworking\bwv\_america\wsp\sheet\sets\upper site power building (US)RWF\_1.0 USC-03.dwg  
 PLOT DATE: Tuesday, November 5, 2019 3:19:10 PM  
 BY: COGLIANESE, CHRISTOPHER J.



**GENERAL SHEET NOTES**

- SEE GEG-07 FOR SURVEY CONTROL AND DATUM INFORMATION.
- SEE GEC-01 FOR CIVIL LEGEND AND UTILITY INFORMATION.
- SEE GEC-02 TO 03 FOR ADDITIONAL COORDINATE, LINE, AND CURVE INFORMATION.

**SHEET KEYNOTES**

**LEGEND**

- FACILITIES
- FUTURE
- FUTURE ROAD BOUNDARY
- FUTURE WRWTP FACILITIES
- SROZ - AREA OF LIMITED CONFLICTING USE
- SROZ - METRO TITLE III
- SR IMPACT AREA
- STREAM
- WETLAND

**1 SITE YARD PIPING PLAN**

0 40 80  
SCALE IN FEET

DSGN	M. CARLSON				
DR	C.J. COGLIANESE				
CHK	R. BROWN				
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY

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**BLACK & VEATCH**

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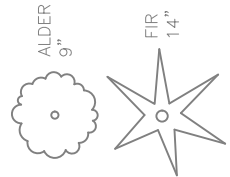
**PRELIMINARY, SUBJECT TO CHANGE**

**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT	SHEET 17
UTILITY PLAN	DWG LUP-14
UPPER SITE	DATE 11/5/19
	PROJ 196999

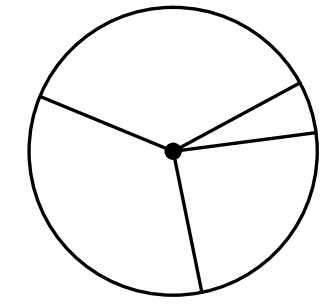


# PLANTING LEGEND



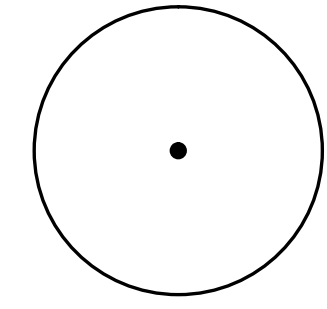
EXISTING TREES TO BE PRESERVED

## STREET TREES



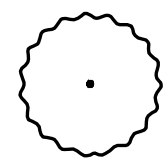
BOTANICAL NAME	COMMON NAME	SIZE & TYPE	SPACING	QTY.
ZELKOVA SERRATA 'VILLAGE GREEN'	VILLAGE GREEN ZELKOVA	2.5" CAL., B&B	AS SHOWN	21

## LARGE DECIDUOUS SCREENING TREES



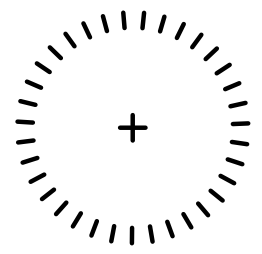
BOTANICAL NAME	COMMON NAME	SIZE & TYPE	SPACING	QTY.
ACER MACROPHYLLUM	BIGLEAF MAPLE	1.5" CAL., B&B	AS SHOWN	8
QUERCUS GARRYANA	OREGON WHITE OAK	1.5" CAL., B&B	AS SHOWN	5

## SMALL DECIDUOUS SCREENING TREES



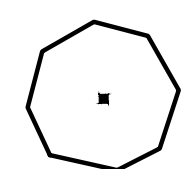
BOTANICAL NAME	COMMON NAME	SIZE & TYPE	SPACING	QTY.
ACER CIRCINATUM	VINE MAPLE	4'-6" HT., B&B	AS SHOWN	6
AMELANCHIER ALNIFOLIA	WESTERN SERVICEBERRY	1.5" CAL., B&B	AS SHOWN	4
CORNUS NUTTALLI	PACIFIC DOGWOOD	1.5" CAL., B&B	AS SHOWN	6
RHAMNUS PURSHIANA	CASCARA	1.5" CAL., B&B	AS SHOWN	5

## EVERGREEN SCREENING TREES



BOTANICAL NAME	COMMON NAME	SIZE & TYPE	SPACING	QTY.
ABIES GRANDIS	GRAND FIR	4'-6" HT., B&B	AS SHOWN	4
CALOCEDRUS DECURRENS	INCENSE CEDAR	4'-6" HT., B&B	AS SHOWN	7
PINUS PONDEROSA 'WILLAMETTENSIS'	WILLAMETTE VALLEY PONDEROSA PINE	4'-6" HT., B&B	AS SHOWN	7
PSEUDOTSUGA MENZIESII	DOUGLAS FIR	4'-6" HT., B&B	AS SHOWN	5

## STORMWATER SWALE TREES



BOTANICAL NAME	COMMON NAME	SIZE & TYPE	SPACING	QTY.
ALNUS RUBRA	RED ALDER	1" CAL., B&B	AS SHOWN	39
MALUS FUSCA	PACIFIC CRABAPPLE	1" CAL., B&B	AS SHOWN	30

## OTHER GROUNDCOVER



SEEDED FINISH LAWN  
IRRIGATED



SEEDED ROUGH LAWN  
ON ALL REMAINING AREAS DISTURBED BY CONSTRUCTION,  
TO BE MOWED 1X-2X PER YEAR, NON-IRRIGATED



BARK MULCH ONLY  
PROVIDE 2" DEPTH (OVER EROSION CONTROL NETTING  
ON SLOPES STEEPER THAN 3:1)

PRELIMINARY, SUBJECT  
TO CHANGE

LAND USE PERMIT  
(NOT FOR CONSTRUCTION)

DSGN	A.HOLDER								
DR	A.HOLDER								
CHK	D.WALTERS								
APVD	M.FAHA	NO.	DATE	REVISION	BY	APVD			

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LAND USE PERMIT  
LANDSCAPE PLAN  
LEGEND

SHEET	18
DWG	LUP-15
DATE	07/12/19
PROJ	196999

# PLANTING NOTES

- CONTRACTOR SHALL PROVIDE PLANTING SOIL, SOIL AMENDMENTS, STORMWATER SWALE GROWING MEDIUM, AND MULCH TO THE COMPOSITION AND DEPTHS IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS OF THE CONTRACT DOCUMENTS.
- PROVIDE 2" DEPTH ROCK MULCH IN STORMWATER SWALES, AND PROVIDE 2" DEPTH BARK MULCH IN ALL OTHER PLANTING AREAS.
- ALL PLANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS AND THE SPECIFICATIONS PROVIDED AS PART OF THE CONTRACT DOCUMENTS.
- QUANTITIES ARE LISTED FOR THE CONTRACTOR'S CONVENIENCE ONLY. ALL COUNTS MUST BE VERIFIED BY THE CONTRACTOR. IN THE CASE OF A DISCREPANCY BETWEEN THE LEGEND AND THE PLAN, PLANTS INDICATED ON THE PLAN SHALL SUPERCEDE QUANTITIES LISTED IN THE LEGEND.
- UTILITY LOCATIONS SHOWN ON PLANS MAY DIFFER FROM FIELD CONDITIONS. CONTRACTOR TO FIELD VERIFY ALL UTILITIES BEFORE INSTALLATION. CONFLICTS BETWEEN ANY EXISTING AND PROPOSED UTILITIES ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY.

## SHRUBS AND HERBACEOUS

BOTANICAL NAME	COMMON NAME	SIZE & TYPE	SPACING	QTY.
<b>LOW SHRUB MIX (UP TO 2' TALL)</b>				
CORNUS SERICEA 'KELSEY'	KELSEY DOGWOOD	1 GAL. CONT.	2' O.C.	766
DESCHAMPSIA CAESPITOSA	TUFTED HAIRGRASS	1 GAL. CONT.	2' O.C.	766
MAHONIA REPENS	CREeping OREGON GRAPE	1 GAL. CONT.	2' O.C.	766
POLYSTICHUM MUNITUM	SWORD FERN	1 GAL. CONT.	2.5' O.C.	491
SEDUM 'AUTUMN JOY'	AUTUMN JOY SEDUM	1 GAL. CONT.	2' O.C.	766
SPIRAEA BETULIFOLIA	BIRCH-LEAF SPIREA	1 GAL. CONT.	2.5' O.C.	491

BOTANICAL NAME	COMMON NAME	SIZE & TYPE	SPACING	QTY.
<b>MIXED-HEIGHT SHRUB MIX (UP TO 8' TALL)</b>				
CORYLUS CORNUTA V. CALIFORNICA	WESTERN HAZEL	2 GAL. CONT.	6' O.C.	122
MAHONIA AQUIFOLIUM	TALL OREGON GRAPE	2 GAL. CONT.	4' O.C.	273
POLYSTICHUM MUNITUM	SWORD FERN	1 GAL. CONT.	2.5' O.C.	705
PHILADELPHUS LEWISII	LEWIS MOCK ORANGE	2 GAL. CONT.	4' O.C.	273
RIBES SANGUINEUM	RED-FLOWERING CURRANT	2 GAL. CONT.	5' O.C.	176
SPIRAEA BETULIFOLIA	BIRCH-LEAF SPIREA	1 GAL. CONT.	2.5' O.C.	705
SYMPHORICARPOS ALBUS	COMMON SNOWBERRY	1 GAL. CONT.	3' O.C.	489

BOTANICAL NAME	COMMON NAME	SIZE & TYPE	SPACING	QTY.
<b>STORMWATER SWALE PLANTING</b>				
<b>ZONE A - BELOW HIGH WATER MARK:</b>				
CAMASSIA QUAMASH	COMMON CAMAS	4" CONT.	12" O.C.	600
CAREX OBNUPTA	SLOUGH SEDGE	4" CONT.	12" O.C.	1512
JUNCUS PATENS	SPREADING RUSH	4" CONT.	12" O.C.	1512
SPIRAEA BETULIFOLIA	BIRCH-LEAF SPIREA	1 GAL. CONT.	2.5' O.C.	60
SPIRAEA DOUGLASII	DOUGLAS SPIREA	2 GAL. CONT.	5' O.C.	101
SYMPHORICARPOS ALBUS	COMMON SNOWBERRY	1 GAL. CONT.	3' O.C.	74

BOTANICAL NAME	COMMON NAME	SIZE & TYPE	SPACING	QTY.
<b>ZONE B - ABOVE HIGH WATER MARK:</b>				
DESCHAMPSIA CAESPITOSA	TUFTED HAIRGRASS	4" CONT.	12" O.C.	3932
ELYMUS GLAUCUS	BLUE WILDRIE	4" CONT.	12" O.C.	3933
POLYSTICHUM MUNITUM	SWORD FERN	1 GAL. CONT.	2.5' O.C.	137
RIBES SANGUINEUM	RED-FLOWERING CURRANT	2 GAL. CONT.	5' O.C.	205
SYMPHORICARPOS ALBUS	COMMON SNOWBERRY	1 GAL. CONT.	3' O.C.	137

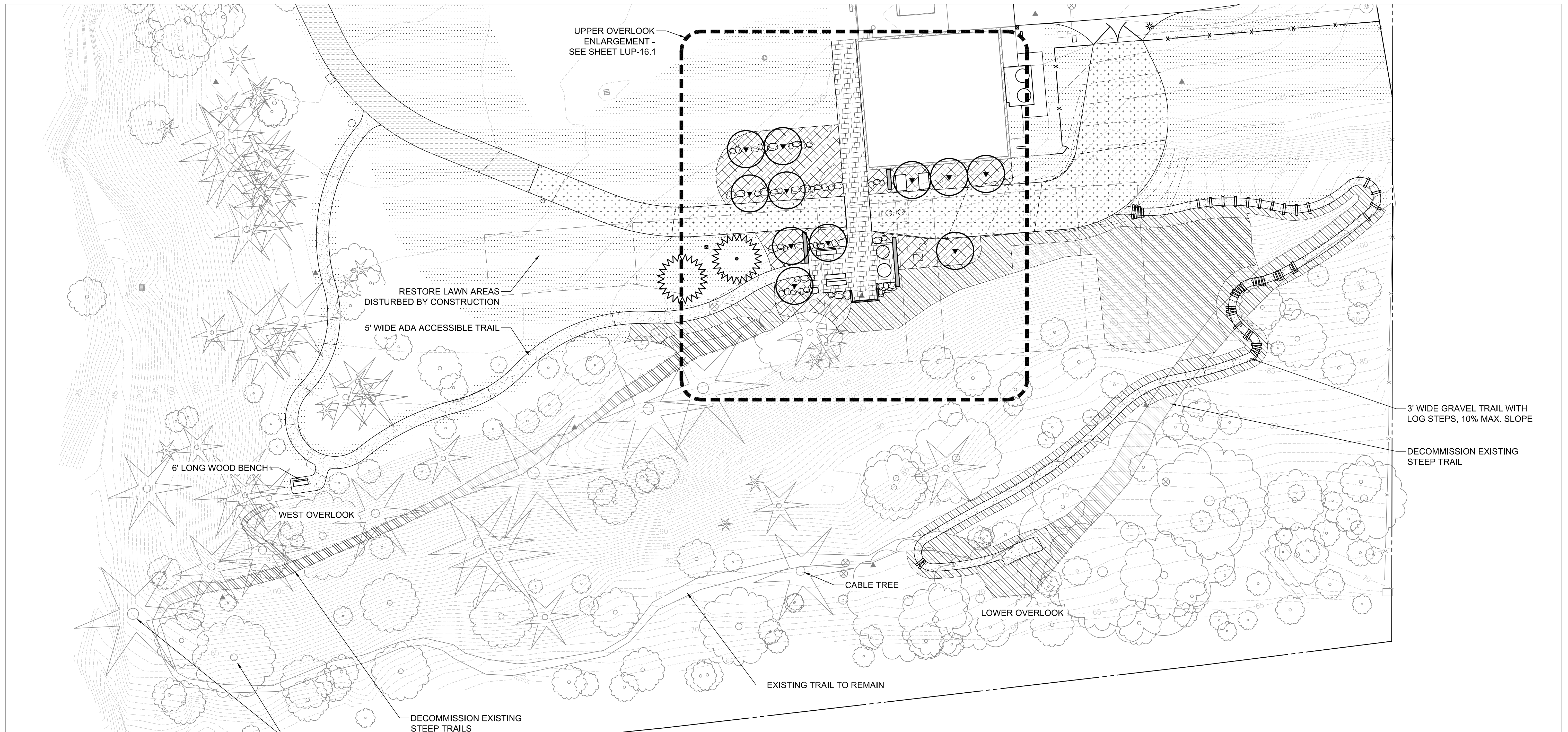
## RESTORATION PLANTING MIX

BOTANICAL NAME	COMMON NAME	SIZE & TYPE	SPACING	QTY.
<b>TREES</b>				
ACER MACROPHYLLUM	BIGLEAF MAPLE	1" CAL., B&B	30'	27
ALNUS RUBRA	RED ALDER	1" CAL., B&B	20'	30
CORNUS NUTTALLI	PACIFIC DOGWOOD	1" CAL., B&B	20'	30
PRUNUS EMARGINATA	BITTER CHERRY	1" CAL., B&B	20'	23
PSEUDOTSUGA MENZIESII	DOUGLAS FIR	3'-4' HT., B&B	25'	27
RHAMNUS PURSHIANA	CASCARA	1" CAL., B&B	20'	14

BOTANICAL NAME	COMMON NAME	SIZE & TYPE	SPACING	QTY.
<b>LARGE SHRUBS</b>				
INSTALL THE FOLLOWING PLANTS IN GROUPS OF 3 AND 5 - GROUPS TO BE EVENLY DISTRIBUTED THROUGHOUT PLANTING ZONE:				
ACER CIRCINATUM	VINE MAPLE	#1 CONT.	12'	55
AMELANCHIER ALNIFOLIA	WESTERN SERVICEBERRY	#1 CONT.	12'	55
CORYLUS CORNUTA	BEAKED HAZELNUT	#1 CONT.	10'	46
RIBES SANGUINEUM	RED FLOWERING CURRANT	#1 CONT.	8'	69
RUBUS PARVIFLORUS	THIMBLEBERRY	#1 CONT.	8'	46
SAMBUCUS CERULEA	BLUE ELDERBERRY	#1 CONT.	10'	55




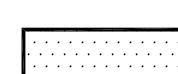
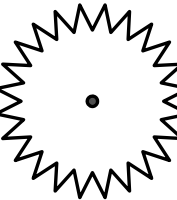
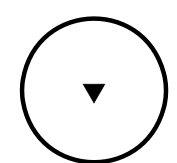
BOTANICAL NAME	COMMON NAME	SIZE & TYPE	SPACING	QTY.
<b>MEDIUM AND SMALL SHRUBS</b>				
INSTALL THE FOLLOWING PLANTS IN GROUPS OF 5, 7, AND 9 - GROUPS TO BE EVENLY DISTRIBUTED THROUGHOUT PLANTING ZONE:				
GAULTHERIA SHALLON	SALAL	#1 CONT.	5'	69
MAHONIA AQUIFOLIUM	TALL OREGON GRAPE	#1 CONT.	5'	92
MAHONIA NERVOSA	DWARF OREGON GRAPE	#1 CONT.	3'	92
OEMLERIA CERASIFORMIS	INDIAN PLUM	#1 CONT.	6'	46
POLYSTICHUM MUNITUM	SWORD FERN	#1 CONT.	3'	138
ROSA GYMNOCARPA	BALDHIP ROSE	#1 CONT.	5'	16
SYMPHORICARPOS ALBA	SNOWBERRY	#1 CONT.	4'	46
VACCINIUM OVATUM	EVERGREEN HUCKLEBERRY	#1 CONT.	6'	69
VACCINIUM PARVIFLORUM	RED HUCKLEBERRY	#1 CONT.	6'	55



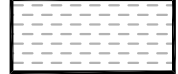
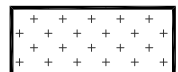




1 PLAN

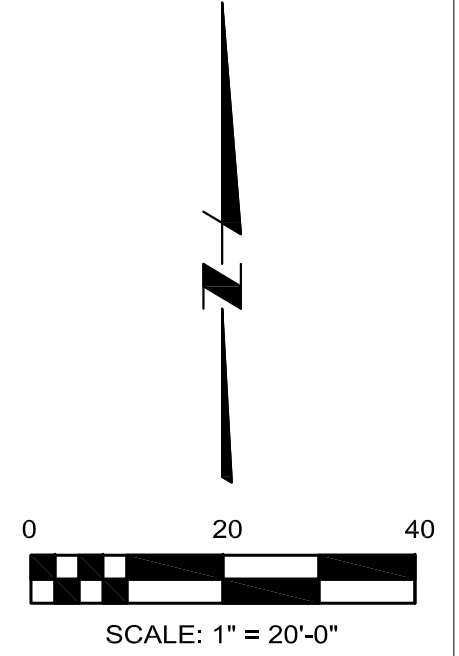
**PLANTING LEGEND**

-  ORNAMENTAL SHRUB PLANTING
-  RESTORATION PLANTING - NATIVE SHRUBS ONLY (WITHIN LIMITS OF DISTURBANCE, TBD)
-  RESTORATION PLANTING - NATIVE SHRUBS AND TREES (WITHIN LIMITS OF DISTURBANCE, TBD)
-  SEEDED LAWN (ON ALL REMAINING AREAS (WITHIN LIMITS OF DISTURBANCE, TBD))
-  DOUGLAS FIR (PSEUDOTSUGA MENZIESII)
-  CASACARA (RHAMNUS PURSHIANA)

**PAVING LEGEND**

-  ASPHALT PAVING
-  PERVIOUS ASPHALT PAVEMENT
-  UNIT PAVERS
-  COMPACTED 1/4" MINUS GRAVEL PAVING (PEDESTRIAN)

NOTE: ALL ORNAMENTAL PLANTING SHALL BE IRRIGATED WITH A PERMANENT, AUTOMATIC IRRIGATION SYSTEM. RESTORATION PLANTING WILL BE IRRIGATED ONLY FOR ESTABLISHMENT. LAWN WILL BE IRRIGATED USING THE EXISTING PARK IRRIGATION SYSTEM, RECONFIGURED TO THE NEW LAYOUT.



DSGN	AHOLDER								
DR	AHOLDER								
CHK	D.WALTERS								
APVD	M.FAHA	NO.	DATE	REVISION	BY	APVD			

VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



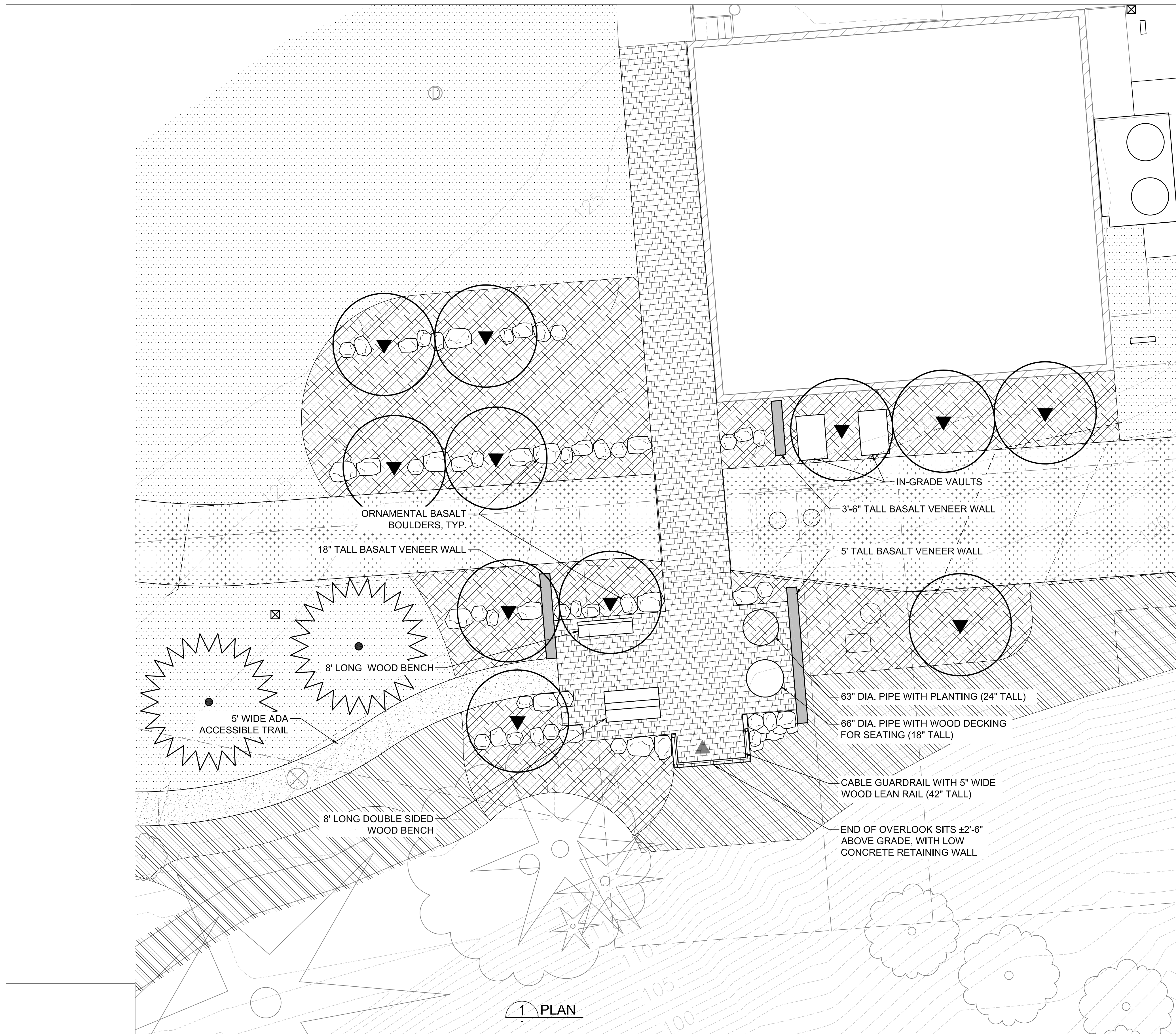
**Willamette Water Supply**  
*Our Reliable Water*  
WILLAMETTE WATER SUPPLY PROGRAM  
RWF\_1.0

PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
**LANDSCAPE PLAN**  
PUMP STATION AND RIVER BANK

SHEET	19
DWG	LUP-16
DATE	11/7/19
PROJ	196999





**PLANTING LEGEND**

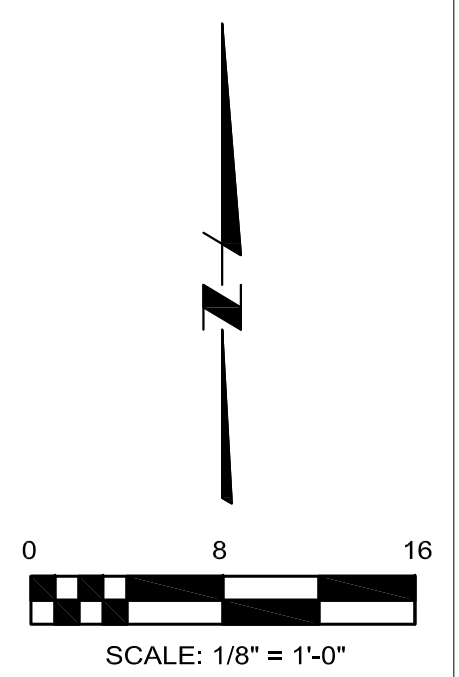
- ORNAMENTAL SHRUB PLANTING
- RESTORATION PLANTING - NATIVE SHRUBS ONLY (WITHIN LIMITS OF DISTURBANCE, TBD)
- RESTORATION PLANTING - NATIVE SHRUBS AND TREES (WITHIN LIMITS OF DISTURBANCE, TBD)
- SEEDED LAWN (ON ALL REMAINING AREAS (WITHIN LIMITS OF DISTURBANCE, TBD))
- DOUGLAS FIR (PSEUDOTSUGA MENZIESII)
- CASACARA (RHAMNUS PURSHIANA)

NOTE: ALL ORNAMENTAL PLANTING SHALL BE IRRIGATED WITH A PERMANENT, AUTOMATIC IRRIGATION SYSTEM. RESTORATION PLANTING WILL BE IRRIGATED ONLY FOR ESTABLISHMENT. LAWN WILL BE IRRIGATED USING THE EXISTING PARK IRRIGATION SYSTEM, RECONFIGURED TO THE NEW LAYOUT.

**PAVING LEGEND**

- ASPHALT PAVING
- PERVIOUS ASPHALT PAVEMENT
- UNIT PAVERS
- COMPACTED 1/4" MINUS GRAVEL PAVING (PEDESTRIAN)

1 PLAN



DSGN	AHOLDER								
DR	AHOLDER								
CHK	D.WALTERS								
APVD	M.FAHA	NO.	DATE	REVISION	BY	APVD			

VERIFY SCALE  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 0" 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



**Willamette Water Supply**  
*Our Reliable Water*  
 WILLAMETTE WATER SUPPLY PROGRAM  
 RWF\_1.0

90% DESIGN  
 (NOT FOR CONSTRUCTION)

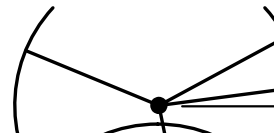
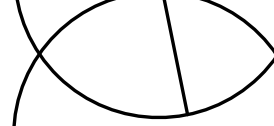


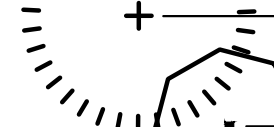
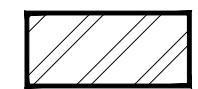





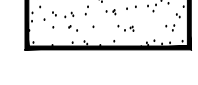
LAND USE PERMIT  
**LANDSCAPE PLAN**  
 PUMP STATION AND RIVER BANK 2

SHEET	20
DWG	LUP-16.1
DATE	11/7/19
PROJ	196999



MATCHLINE - SEE SHEET LUP-18

**PLANTING LEGEND** (SEE SHEET USL-04 FOR FULL PLANTING LEGEND WITH SPECIES)

-  STREET TREES
-  LARGE DECIDUOUS SCREENING TREES
-  SMALL DECIDUOUS SCREENING TREES
-  EVERGREEN SCREENING TREES
-  STORMWATER SWALE TREES
-  LOW SHRUBS (UP TO 2' TALL)
-  MIXED HEIGHT SHRUBS (UP TO 8' TALL)
-  STORMWATER SWALE PLANTING
-  RESTORATION PLANTING MIX
-  SEEDED FINISH LAWN (IRRIGATED)
-  SEEDED ROUGH LAWN (ON ALL REMAINING AREAS DISTURBED BY CONSTRUCTION, TO BE MOWED 1x-2x PER YEAR, NON-IRRIGATED)
-  BARK MULCH ONLY

PRESERVE MIN. 60' WIDTH (TWO ROWS) OF EXISTING ORCHARD TREES AS VISUAL BUFFER

FINAL TREE PLACEMENT WILL COMPLY WITH CLEAR VISION AREA REQUIREMENTS IN SECTION 201.2.22 OF THE CITY OF WILSONVILLE PUBLIC WORKS STANDARDS

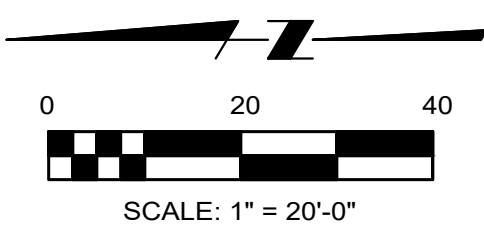
15' WIDE BUFFER OVER EXISTING 63" PIPE - NO LARGE TREES ALLOWED

PRELIMINARY, SUBJECT TO CHANGE

LAND USE PERMIT (NOT FOR CONSTRUCTION)

DSGN	AHOLDER							
DR	AHOLDER							
CHK	D.WALTERS							
APVD	M.FAHA	NO.	DATE	REVISION	BY	APVD		

VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



NOTE: SEE SHEET LUP-15 FOR PLANTING LEGEND AND NOTES; SEE SHEET LUP-19 FOR PLANTING DETAILS.

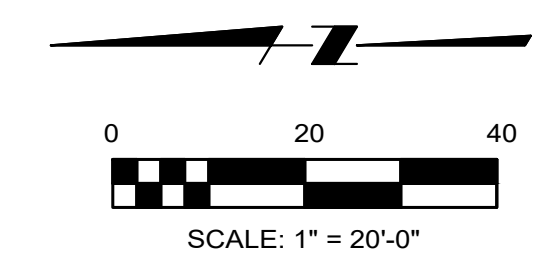
1 PLAN

A LUP-30

LAND USE PERMIT  
LANDSCAPE PLAN  
UPPER SITE 1

SHEET	21
DWG	LUP-17
DATE	07/12/19
PROJ	196999

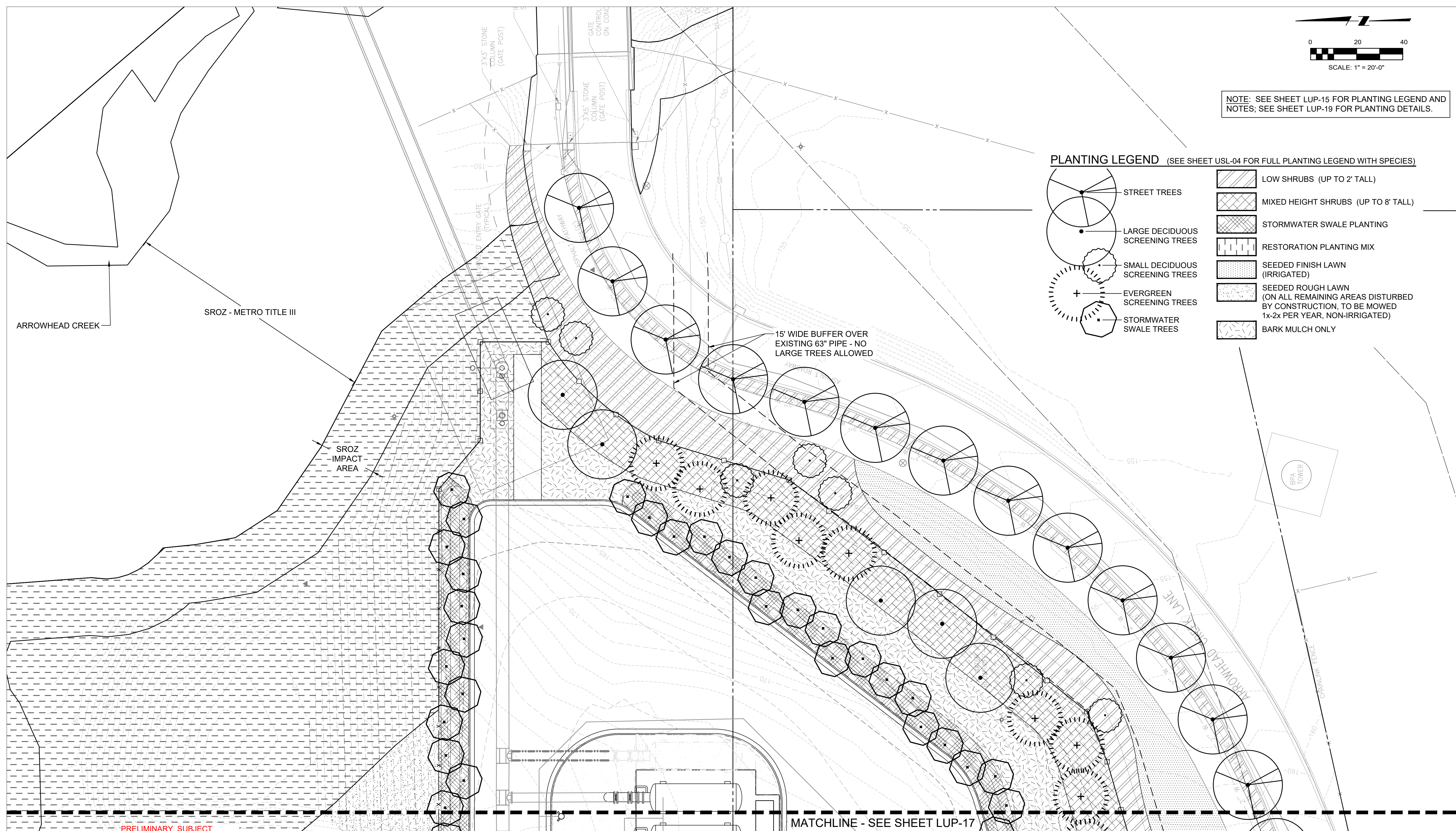




NOTE: SEE SHEET LUP-15 FOR PLANTING LEGEND AND NOTES; SEE SHEET LUP-19 FOR PLANTING DETAILS.

**PLANTING LEGEND** (SEE SHEET USL-04 FOR FULL PLANTING LEGEND WITH SPECIES)

- STREET TREES
- LARGE DECIDUOUS SCREENING TREES
- SMALL DECIDUOUS SCREENING TREES
- EVERGREEN SCREENING TREES
- STORMWATER SWALE TREES
- LOW SHRUBS (UP TO 2' TALL)
- MIXED HEIGHT SHRUBS (UP TO 8' TALL)
- STORMWATER SWALE PLANTING
- RESTORATION PLANTING MIX
- SEEDED FINISH LAWN (IRRIGATED)
- SEEDED ROUGH LAWN (ON ALL REMAINING AREAS DISTURBED BY CONSTRUCTION, TO BE MOWED 1x-2x PER YEAR, NON-IRRIGATED)
- BARK MULCH ONLY



PRELIMINARY, SUBJECT TO CHANGE

LAND USE PERMIT (NOT FOR CONSTRUCTION)

1 PLAN

MATCHLINE - SEE SHEET LUP-17

DSGN	A.HOLDER						
DR	A.HOLDER						
CHK	D.WALTERS						
APVD	M.FAHA	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



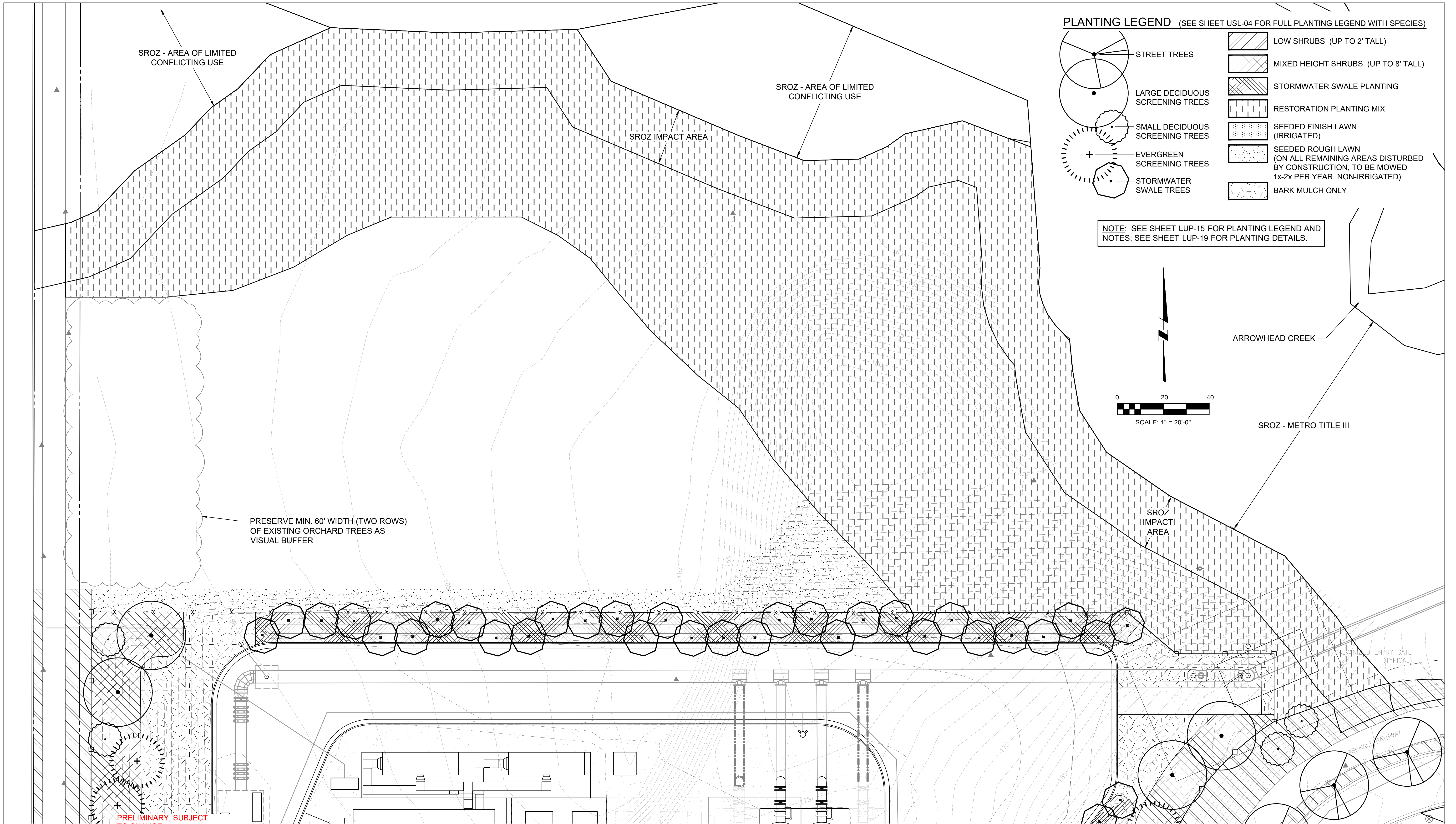
**Willamette Water Supply**  
*Our Reliable Water*  
WILLAMETTE WATER SUPPLY PROGRAM  
RWF\_1.0



LAND USE PERMIT  
LANDSCAPE PLAN  
UPPER SITE 2

SHEET	22
DWG	LUP-18
DATE	07/12/19
PROJ	196999





1 PLAN

LAND USE PERMIT  
(NOT FOR CONSTRUCTION)

DSGN	AHOLDER					
DR	AHOLDER					
CHK						
APVD						
	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
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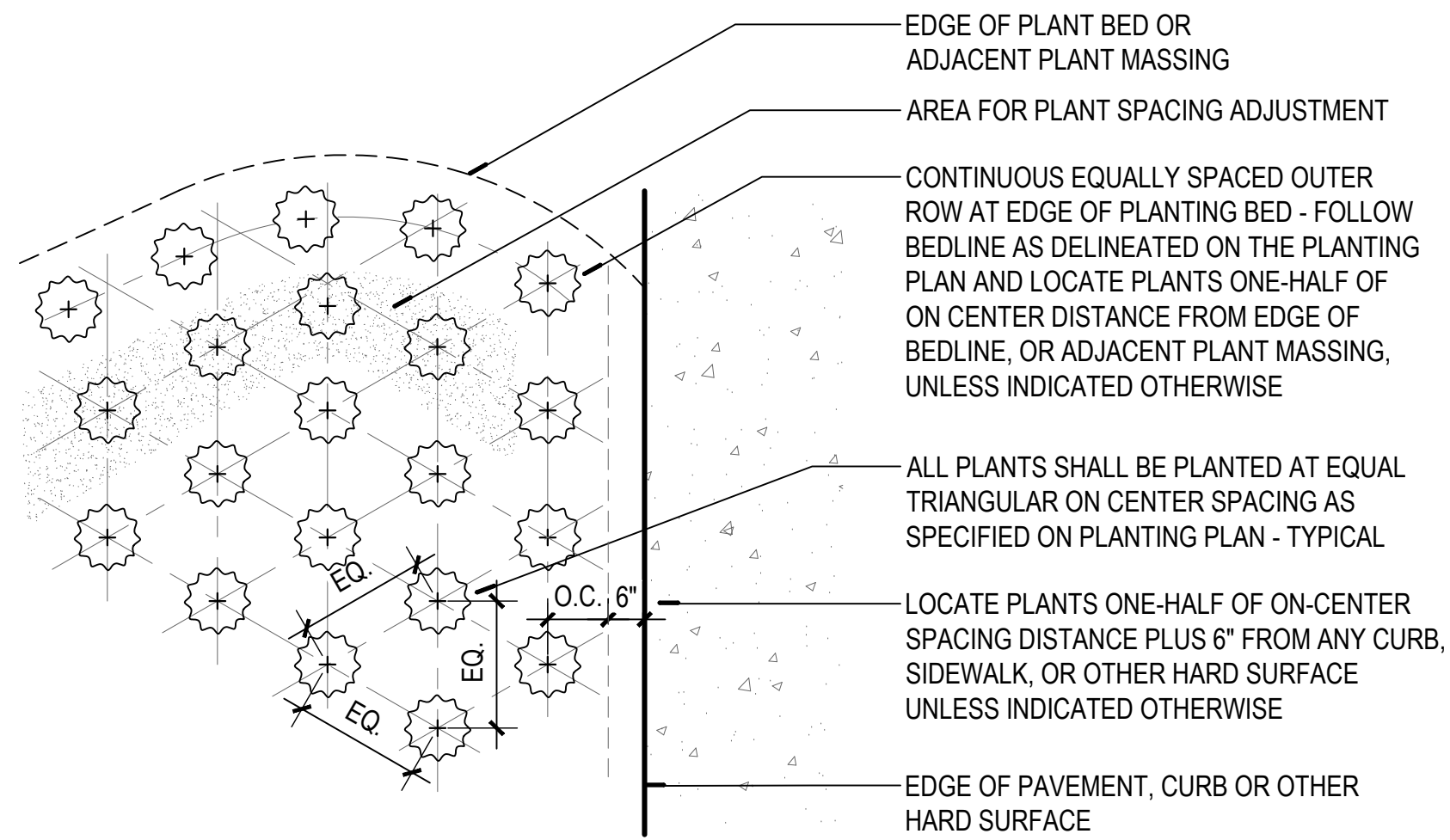
**Willamette Water Supply**  
*Our Reliable Water*  
WILLAMETTE WATER SUPPLY PROGRAM  
RWF\_1.0



LAND USE PERMIT  
LANDSCAPE PLAN  
UPPER SITE 3

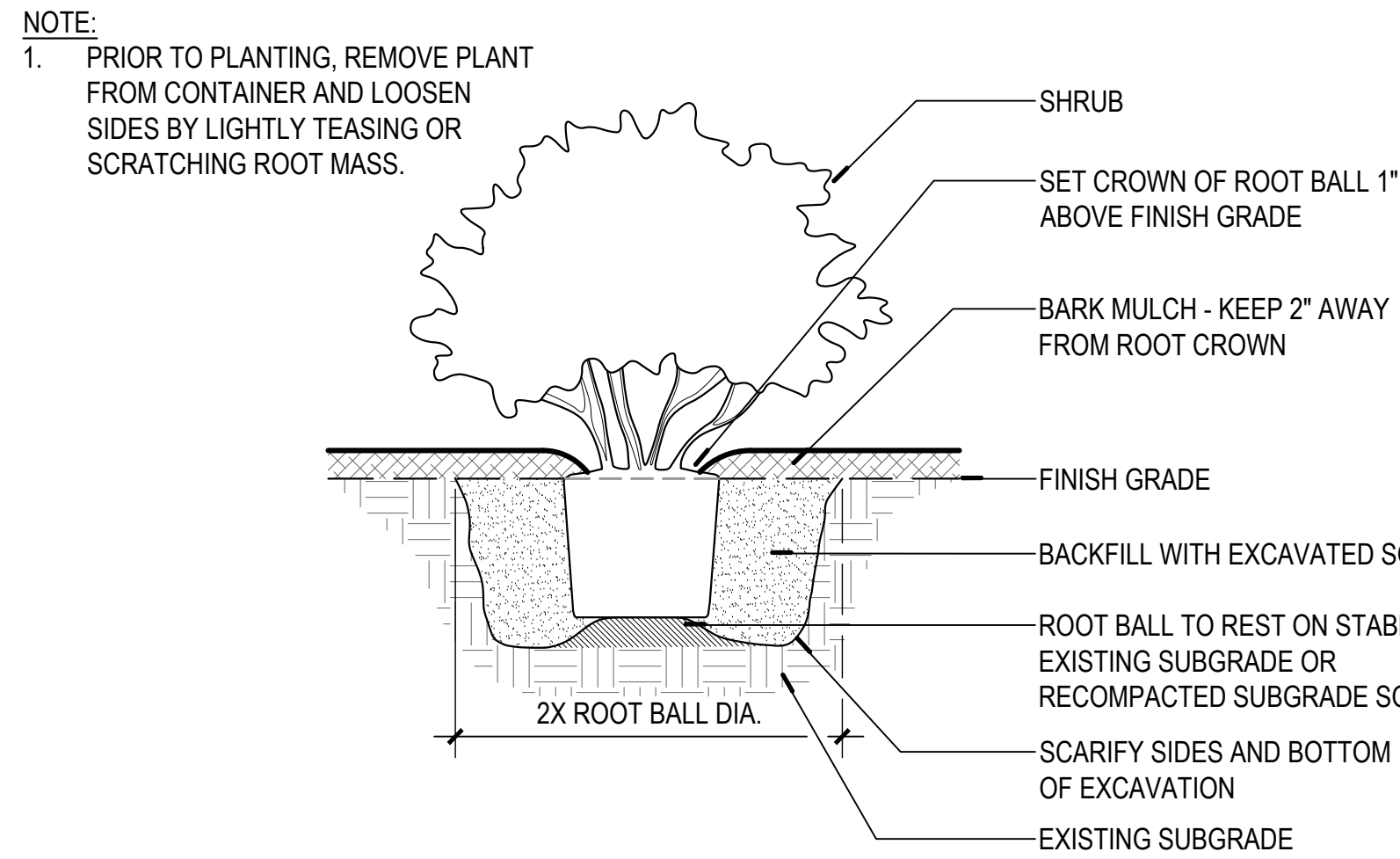
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DWG	LUP-18.1
DATE	07/12/19
PROJ	196999





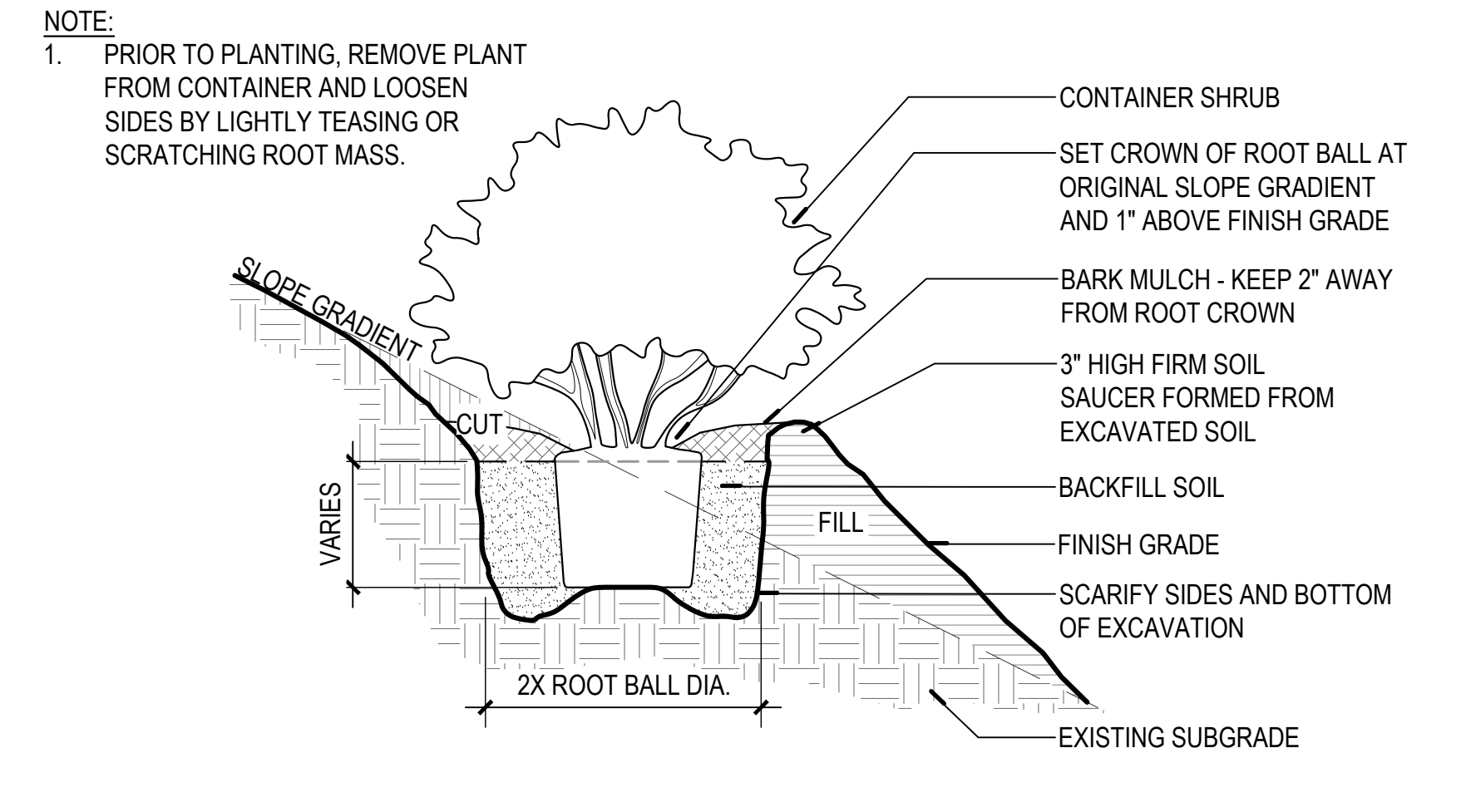
**PLANT SPACING DIAGRAM**  
NTS

1  
USL-04



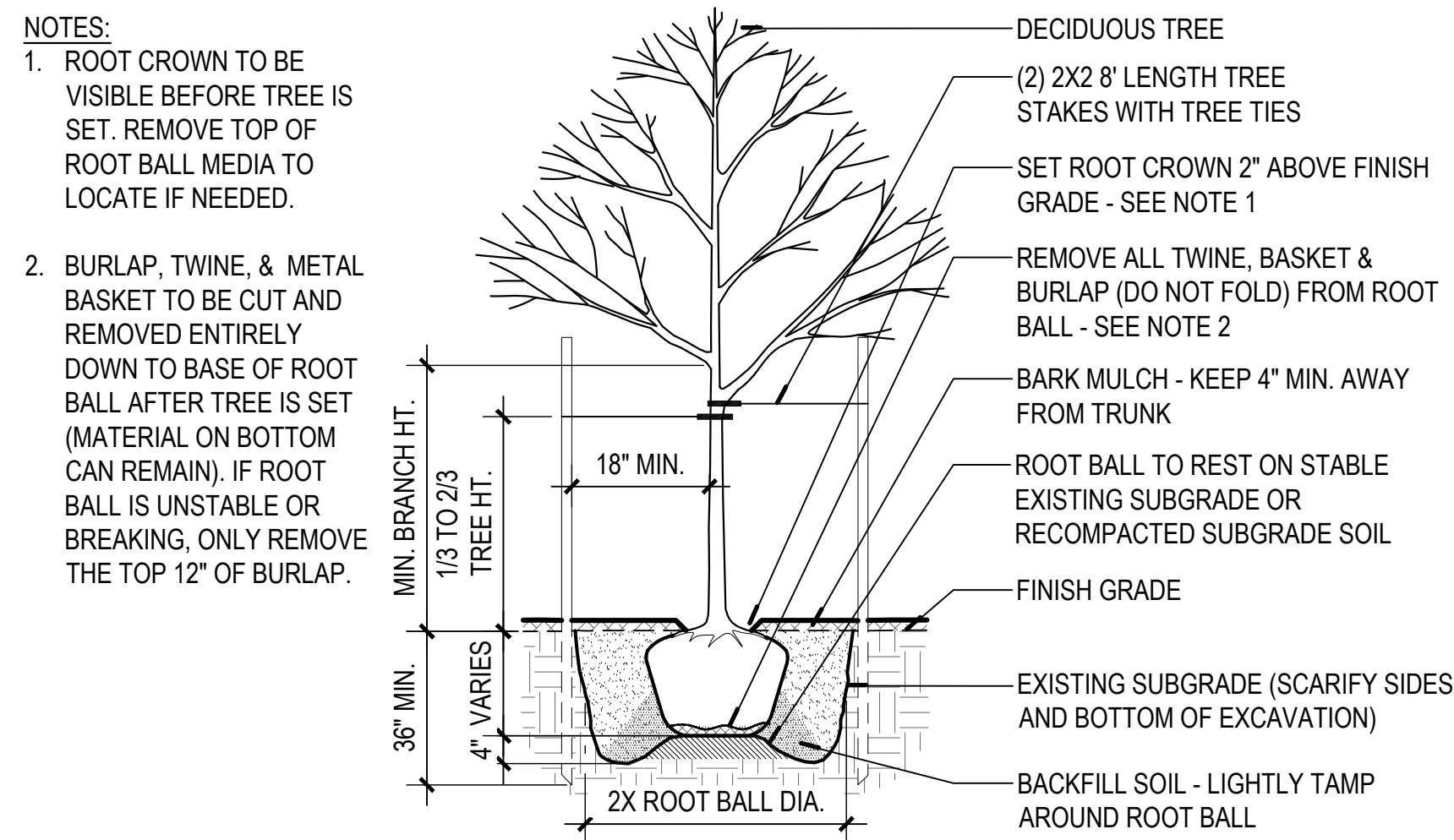
**SHRUB CONTAINER PLANTING**  
NTS

2  
USL-04



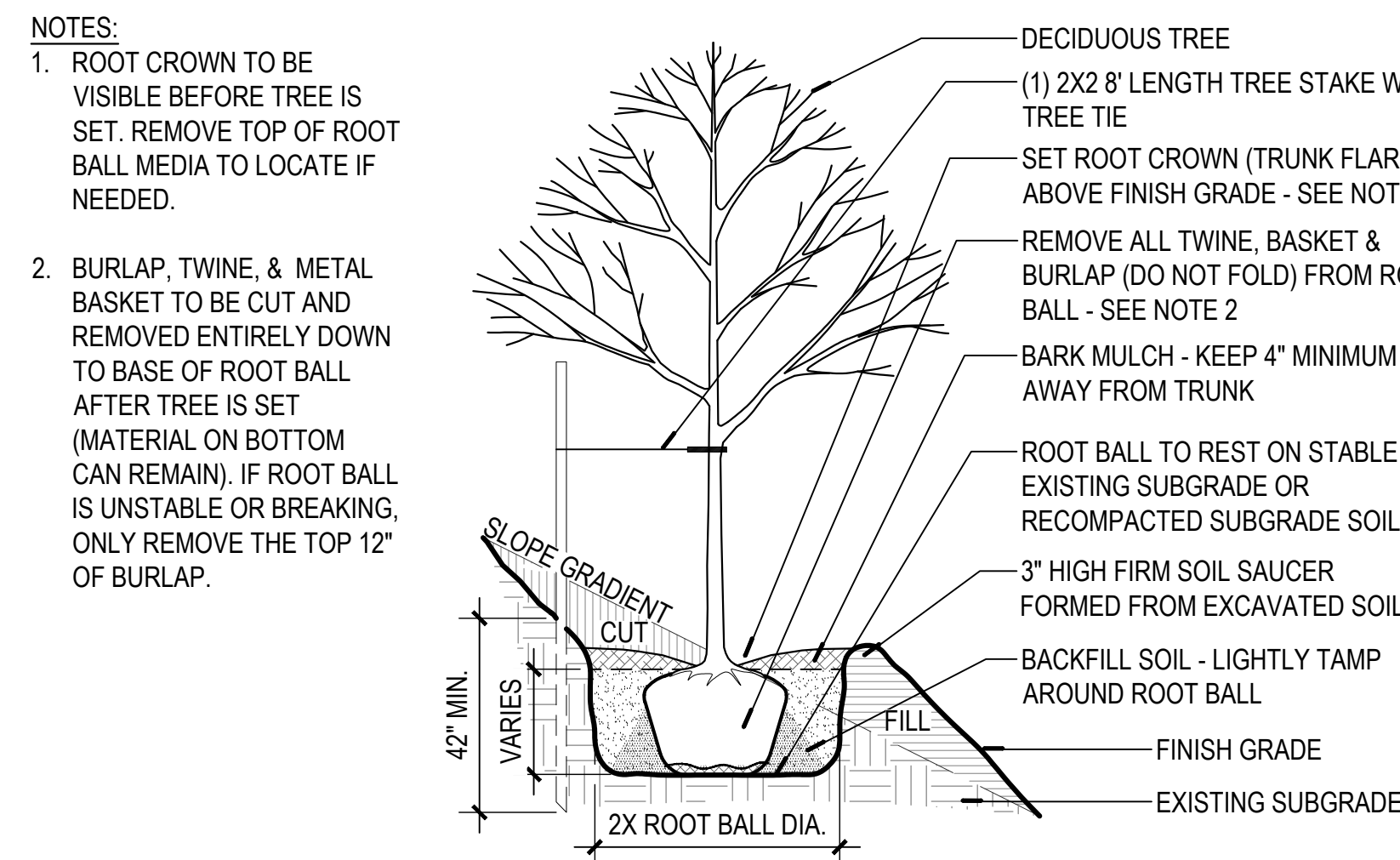
**SHRUB CONTAINER PLANTING ON SLOPE**  
NTS

3  
USL-04



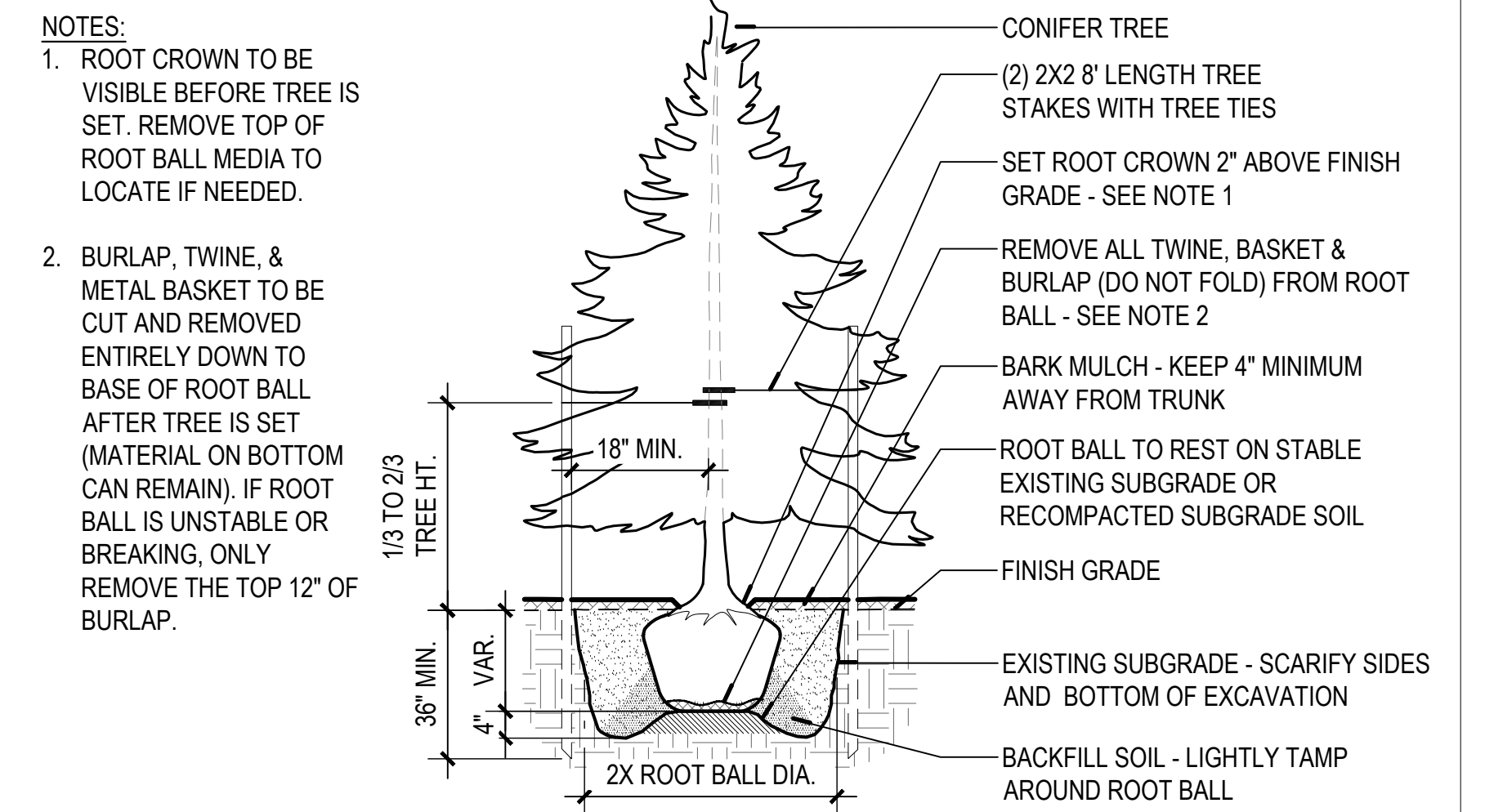
**DECIDUOUS TREE PLANTING**  
NTS

4  
USL-04



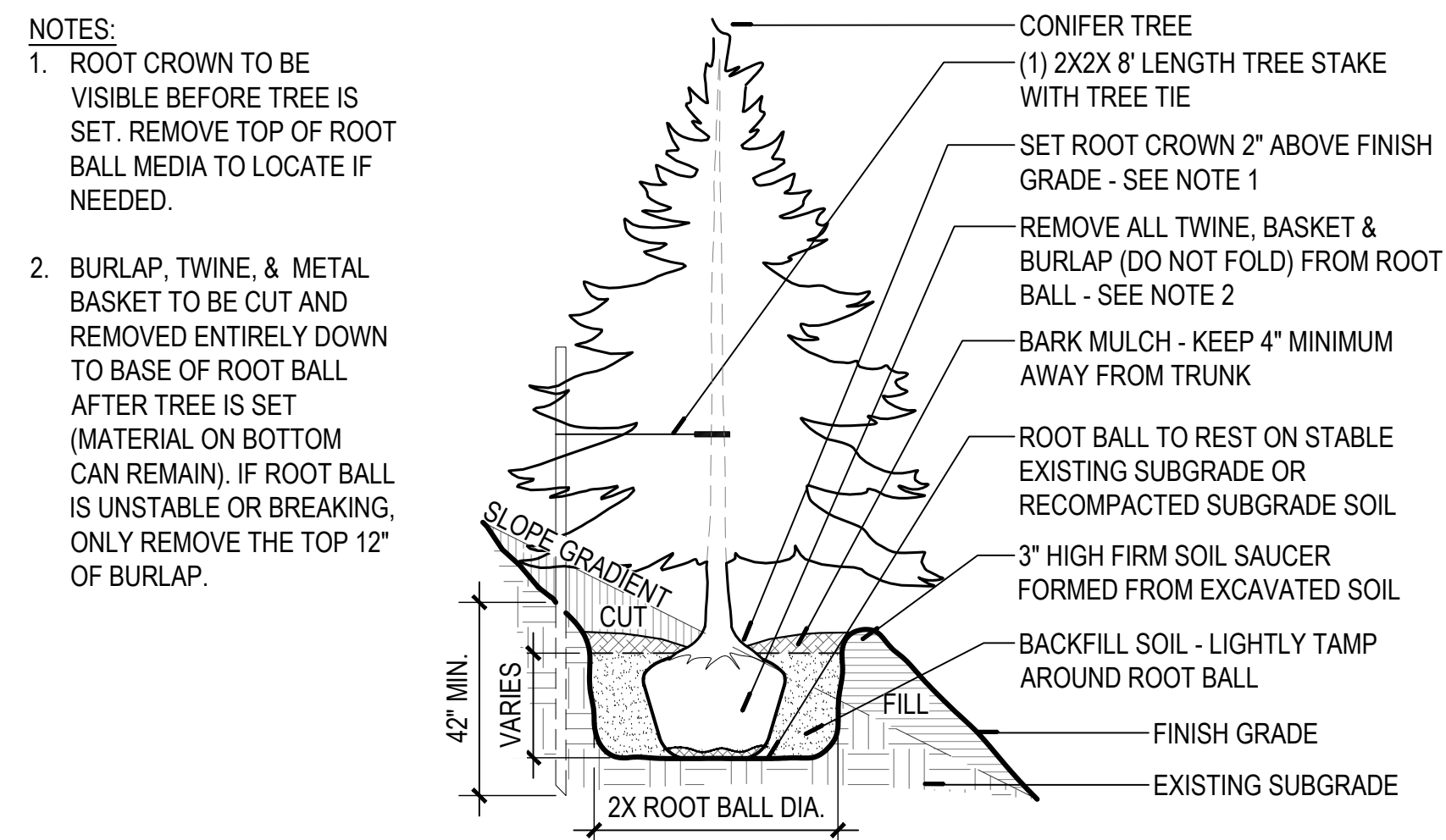
**DECIDUOUS TREE PLANTING ON SLOPE**  
NTS

5  
USL-04



**CONIFER TREE PLANTING**  
NTS

6  
USL-04



**CONIFER TREE PLANTING ON SLOPE**  
NTS

7  
USL-04

PRELIMINARY, SUBJECT TO CHANGE  
LAND USE PERMIT (NOT FOR CONSTRUCTION)

DSGN	AHOLDER								
DR	K.STOCKLEIN								
CHK	D.WALTERS								
APVD	M.FAHA	NO.	DATE	REVISION	BY	APVD			

VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



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WILLAMETTE WATER SUPPLY PROGRAM  
RWF\_1.0



LAND USE PERMIT  
LANDSCAPE  
DETAILS

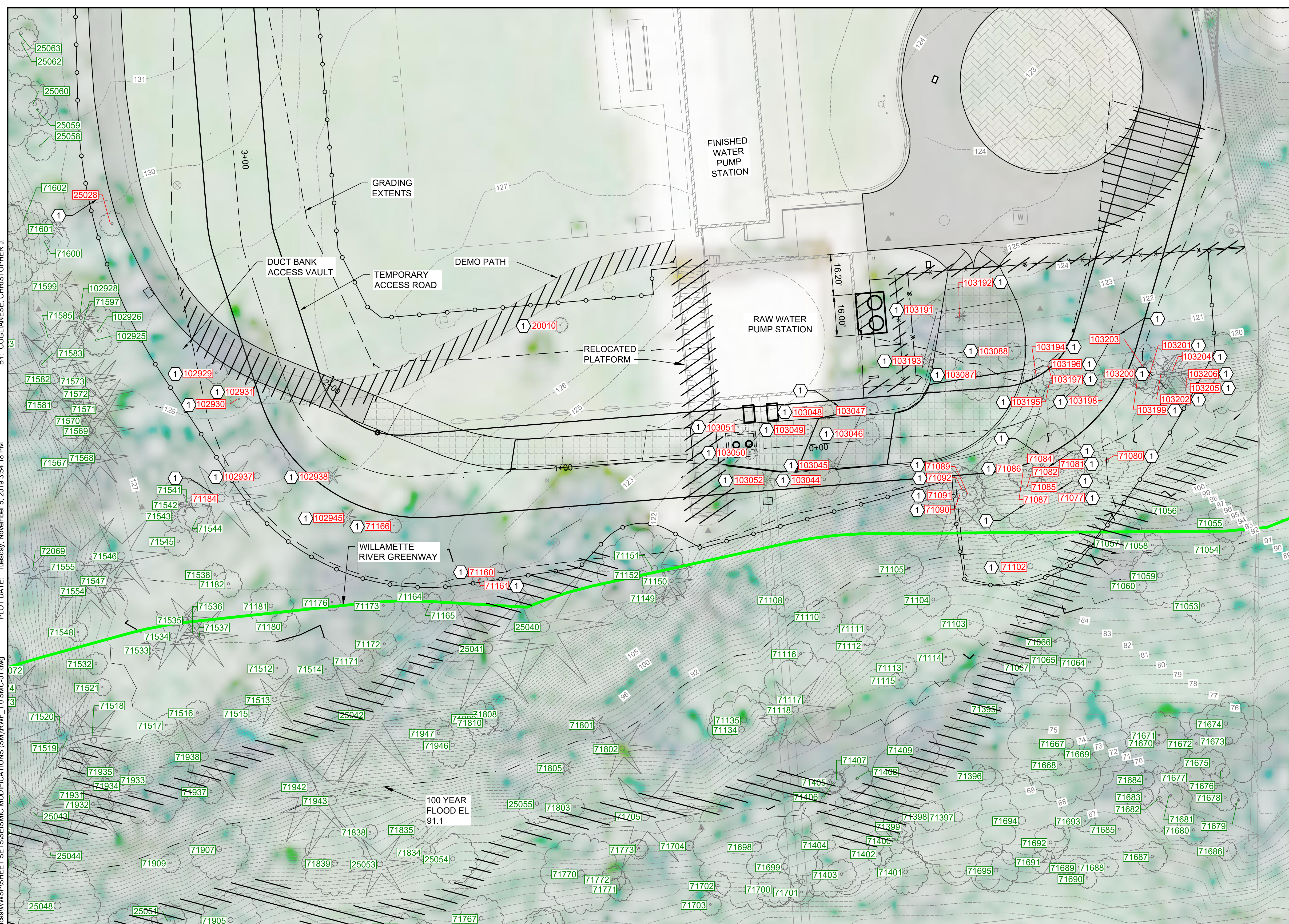
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DWG	LUP-19
DATE	07/12/19
PROJ	196999







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 PLOT DATE: Tuesday, November 5, 2019 3:54:18 PM  
 BY: COGLIANESE, CHRISTOPHER J.



1 PLAN

**GENERAL SHEET NOTES**

- SEE TREE MAINTENANCE AND PROTECTION PLAN FOR TREE INVENTORY INDEX AND DESCRIPTIONS

**SHEET KEYNOTES**

- REMOVE TREE

**LEGEND**



DSGN	M. CARLSON				
DR	C.J. COGLIANESE				
CHK	R. BROWN				
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY
					APVD

VERIFY SCALE  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



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 WILLAMETTE WATER SUPPLY PROGRAM  
 RWF\_1.0

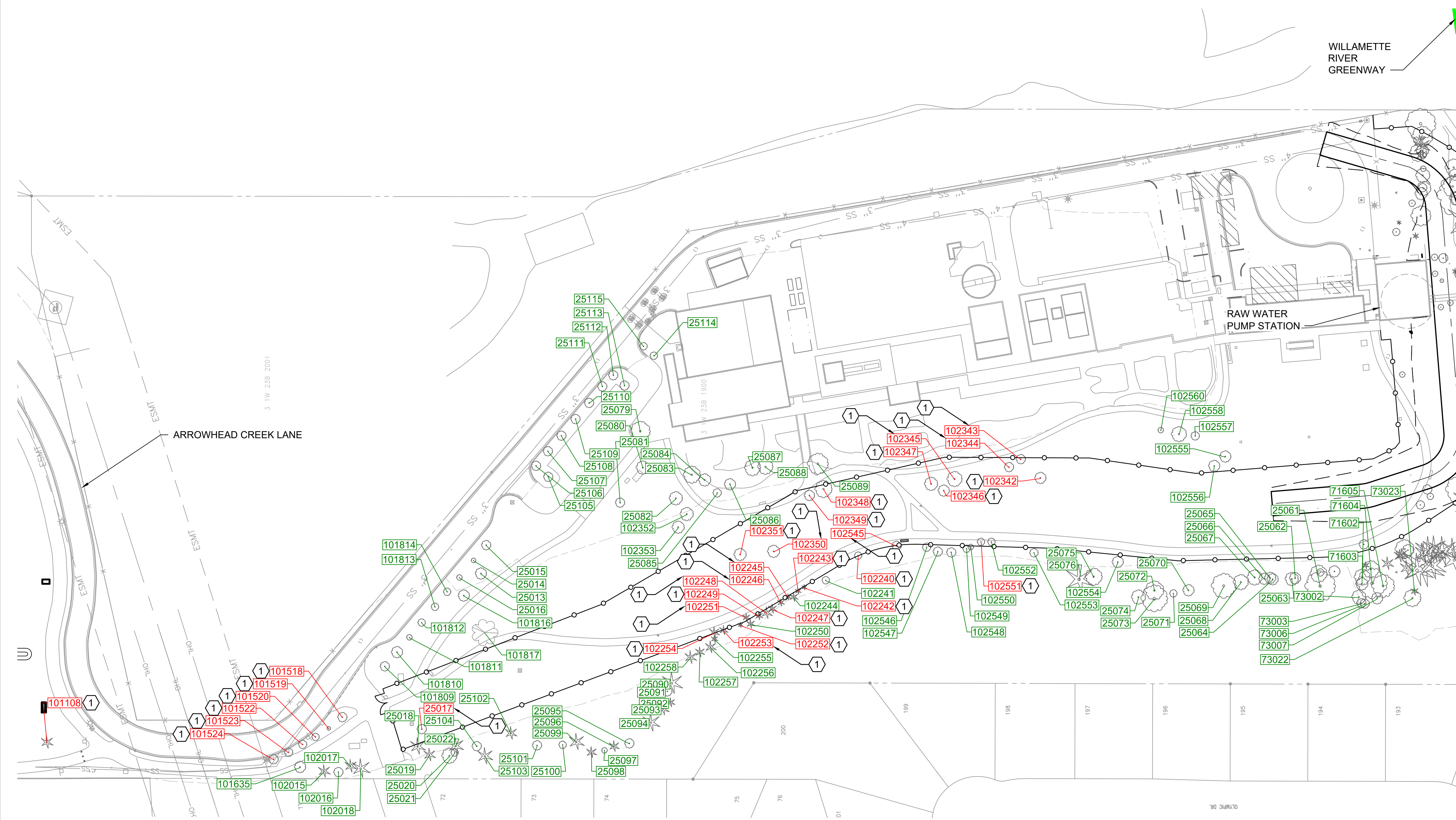
LAND USE PERMIT  
**TREE REMOVAL AND PROTECTION PLAN**  
 RIVER BANK AERIAL

SHEET	26
DWG	LUP-21
DATE	11/5/19
PROJ	196999

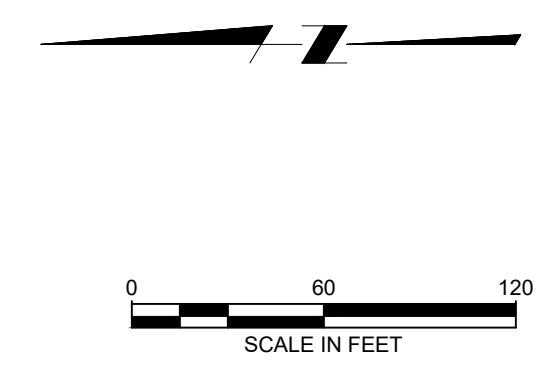


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 PLOT DATE: Tuesday, November 5, 2019 10:53:41 AM  
 BY: COGLIANESE, CHRISTOPHER J.

<b>GENERAL SHEET NOTES</b>	
1.	SEE TREE MAINTENANCE AND PROTECTION PLAN FOR TREE INVENTORY INDEX AND DESCRIPTIONS
<b>SHEET KEYNOTES</b>	
1.	REMOVE TREE
<b>LEGEND</b>	
	LIMITS OF CONSTRUCTION



OVERALL PLAN



DSGN	M. CARLSON				
DR	C.J. COGLIANESE				
CHK	R. BROWN				
APVD	J. MCMULLEN				
	NO.	DATE	REVISION	BY	APVD

VERIFY SCALE  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



**Willamette Water Supply**  
*Our Reliable Water*  
 WILLAMETTE WATER SUPPLY PROGRAM  
 RWF\_1.0

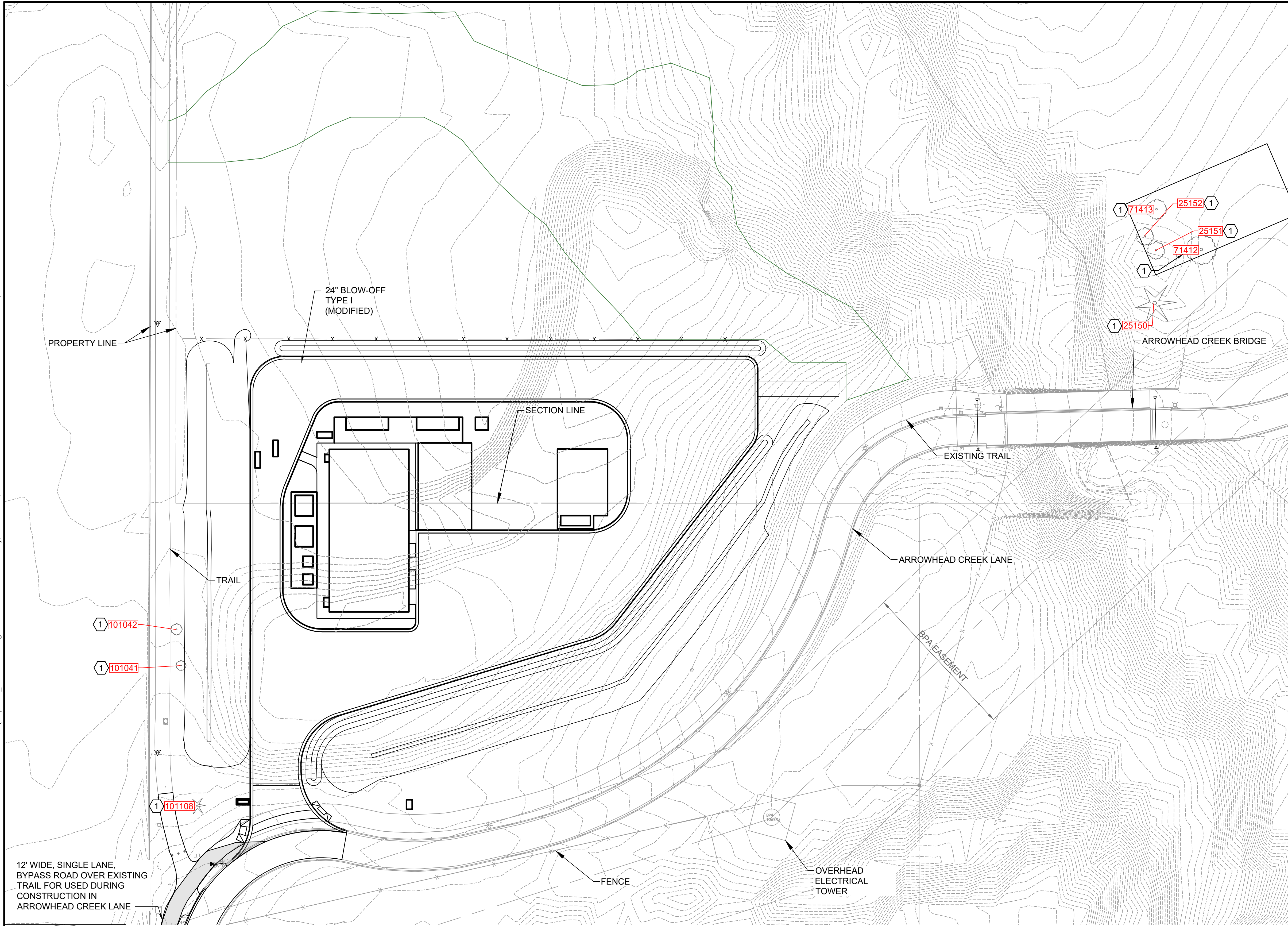
PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
**TREE REMOVAL AND PROTECTION PLAN**  
 PARK

SHEET	27
DWG	LUP-22
DATE	11/5/19
PROJ	196999



DWG FILE: C:\pwworking\bwv\_america\wsp\sheet\sets\upper site power building (US)RWF\_1.0 USC-03.dwg PLOT DATE: Tuesday, November 5, 2019 3:23:22 PM BY: COGLIANESE, CHRISTOPHER J.



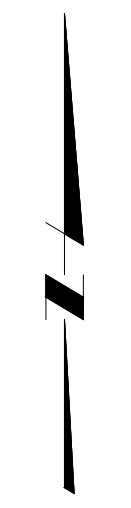
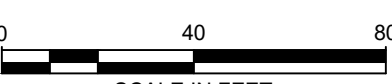
**GENERAL SHEET NOTES**


- SEE TREE MAINTENANCE AND PROTECTION PLAN FOR TREE INVENTORY INDEX AND DESCRIPTIONS

**SHEET KEYNOTES**

- REMOVE TREE

**LEGEND**

  
 UTILITY NOTIFICATION CENTER

**1 SITE YARD PIPING PLAN**

DSGN	M. CARLSON					
DR	C.J. COGLIANESE					
CHK	R. BROWN					
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY	APVD

VERIFY SCALE  
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 RWF\_1.0

PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
 TREE REMOVAL AND PROTECTION PLAN  
 UPPER SITE

SHEET	28
DWG	LUP-23
DATE	11/5/19
PROJ	196999

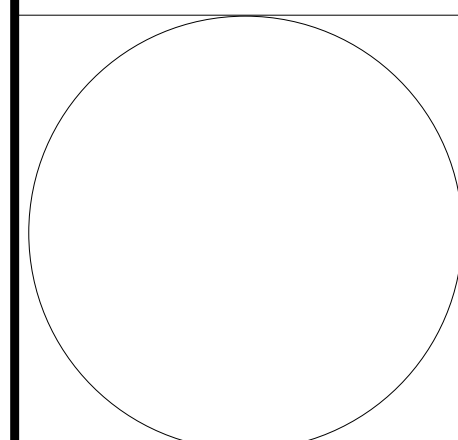




SOUTHEAST PERSPECTIVE



NORTHWEST AERIAL PERSPECTIVE



DSGN	P. RISHEL					
DR	D. YEAROUT					
CHK	D. TRUPKA					
APVD	---	NO.	DATE	REVISION	BY	APVD

VERIFY SCALE  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 0 ██████████ 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

**Black & Veatch Architects, PLLC**  
 Registered and Authorized to Practice  
 Architecture in the State of Oregon  
 8400 Ward Parkway  
 Kansas City, Missouri 64114



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*Our Reliable Water*  
 WILLAMETTE WATER SUPPLY PROGRAM  
 RWF\_1.0

PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
 BUILDING DESIGN - PERSPECTIVES

SHEET	29
DWG	LUP-24
DATE	07/12/19
PROJ	196999

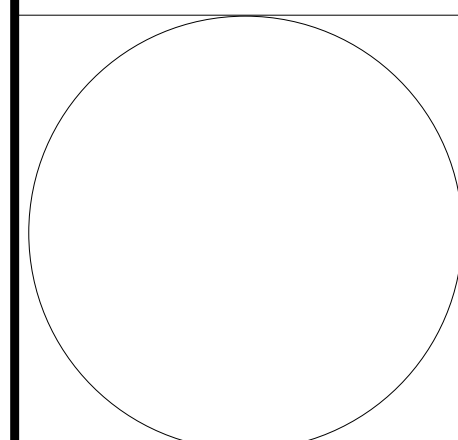




EAST ELEVATION PERSPECTIVE



WEST ELEVATION PERSPECTIVE



DSGN	P. RISHEL				
DR	D. YEAROUT				
CHK	D. TRUPKA				
APVD	---	NO.	DATE	REVISION	BY

VERIFY SCALE  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 0' ██████████ 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

**Black & Veatch Architects, PLLC**  
 Registered and Authorized to Practice  
 Architecture in the State of Oregon  
 8400 Ward Parkway  
 Kansas City, Missouri 64114



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 WILLAMETTE WATER SUPPLY PROGRAM  
 RWF\_1.0

PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
 BUILDING DESIGN - ELEVATIONS

SHEET	30
DWG	LUP-25
DATE	07/12/19
PROJ	196999

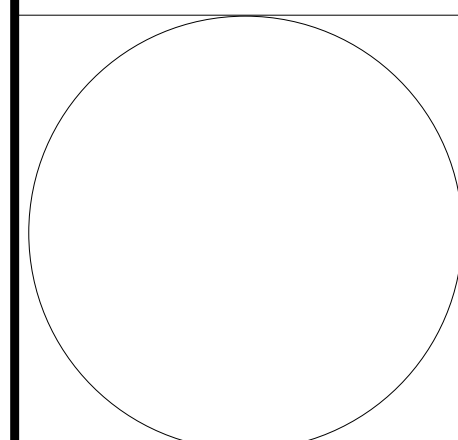




SOUTH ELEVATION PERSPECTIVE



NORTH ELEVATION PERSPECTIVE



DSGN	P. RISHEL				
DR	D. YEAROUT				
CHK	D. TRUPKA				
APVD	---	NO.	DATE	REVISION	BY

VERIFY SCALE  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

**Black & Veatch Architects, PLLC**  
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 8400 Ward Parkway  
 Kansas City, Missouri 64114



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*Our Reliable Water*  
 WILLAMETTE WATER SUPPLY PROGRAM  
 RWF\_1.0

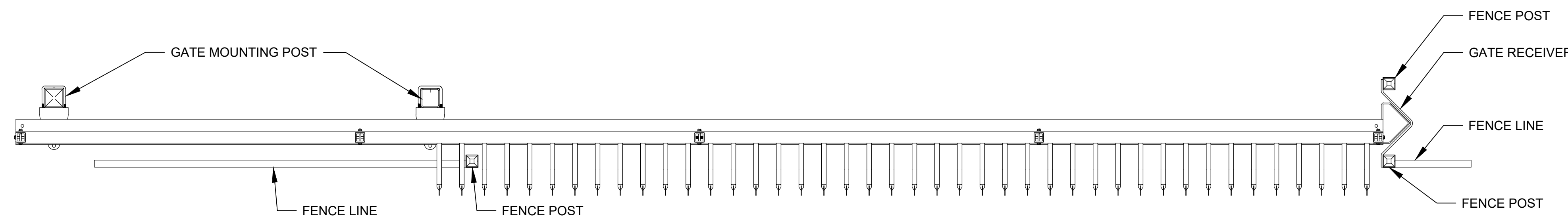
PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
 BUILDING DESIGN - ELEVATIONS

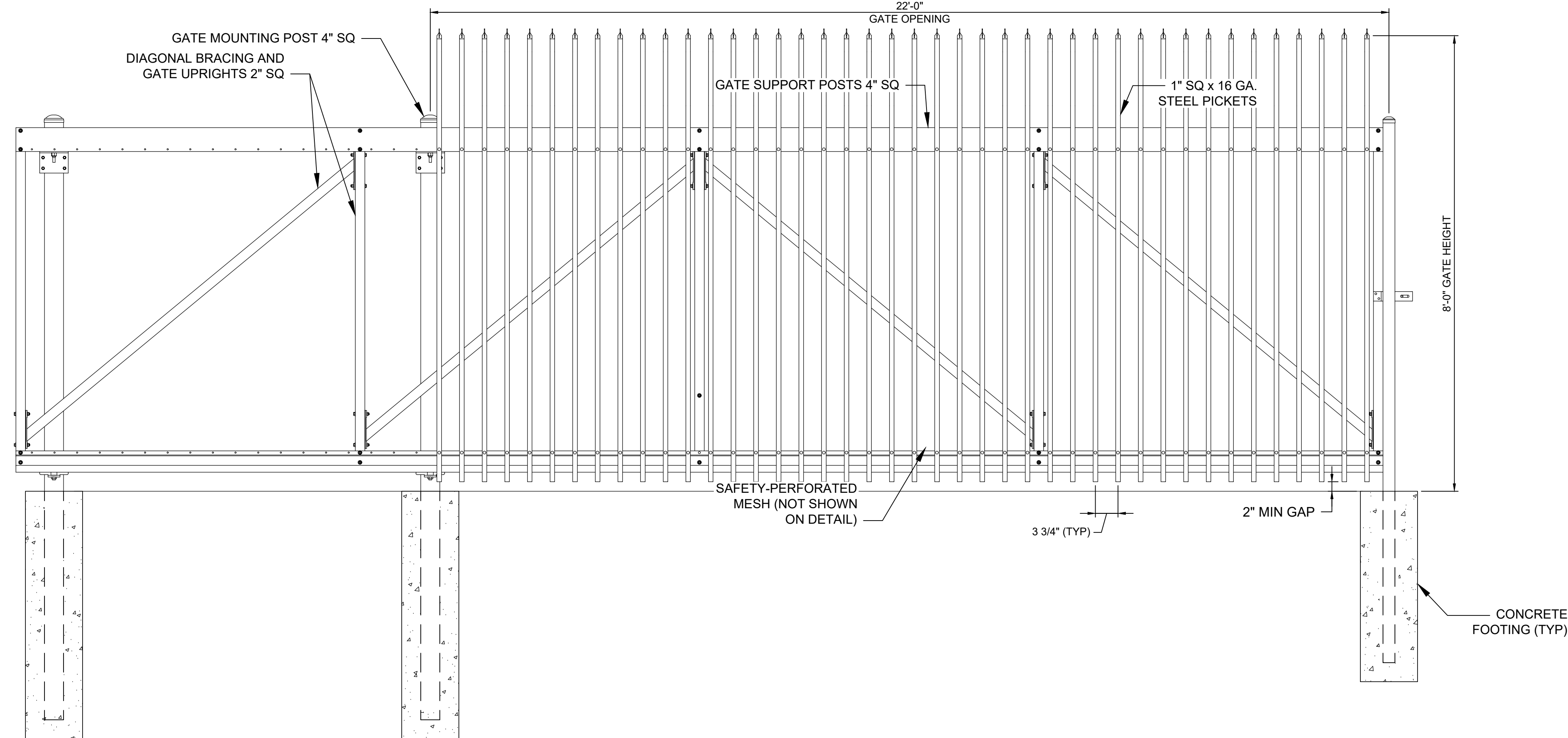
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DATE	07/12/19
PROJ	196999



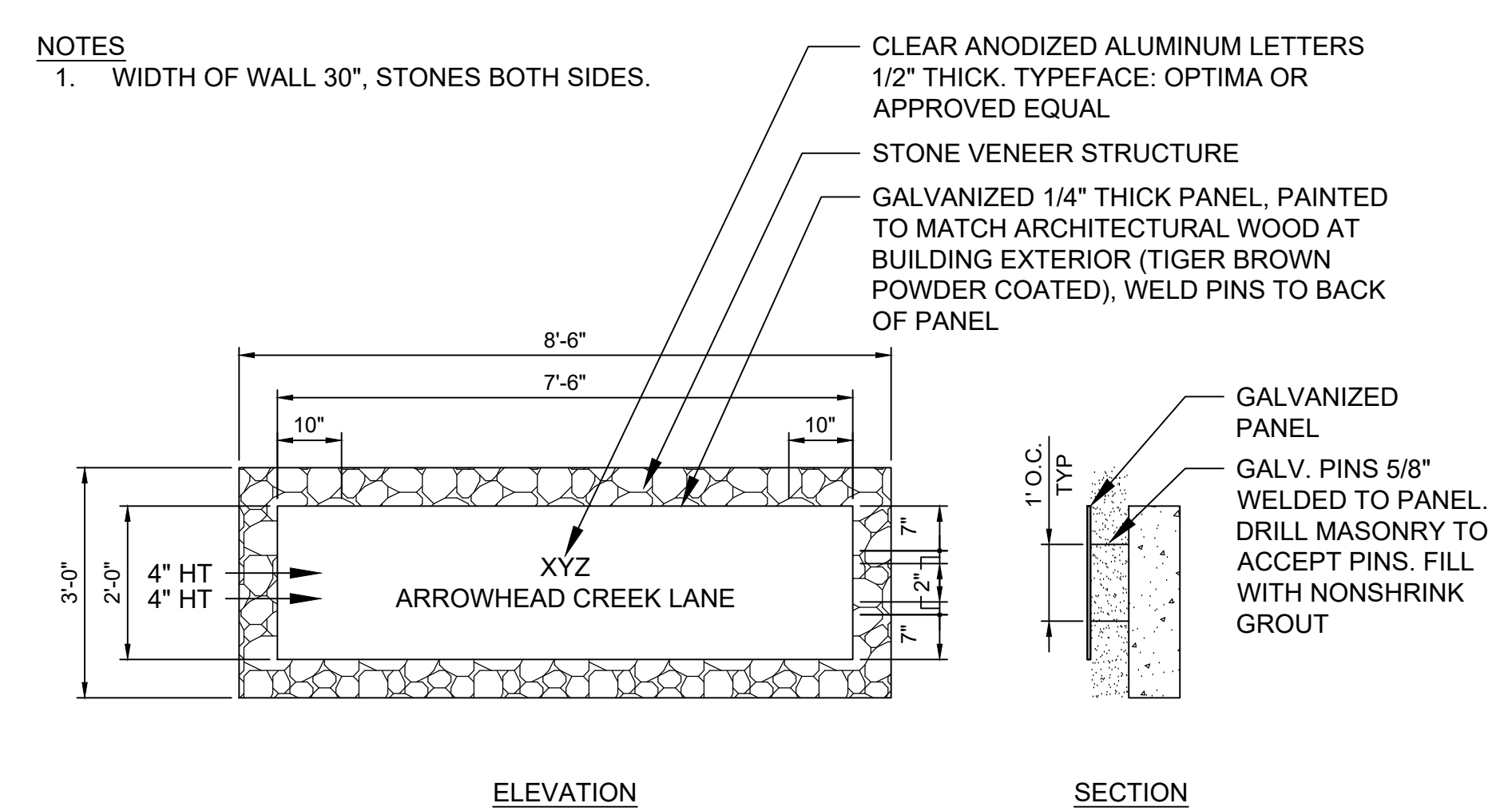
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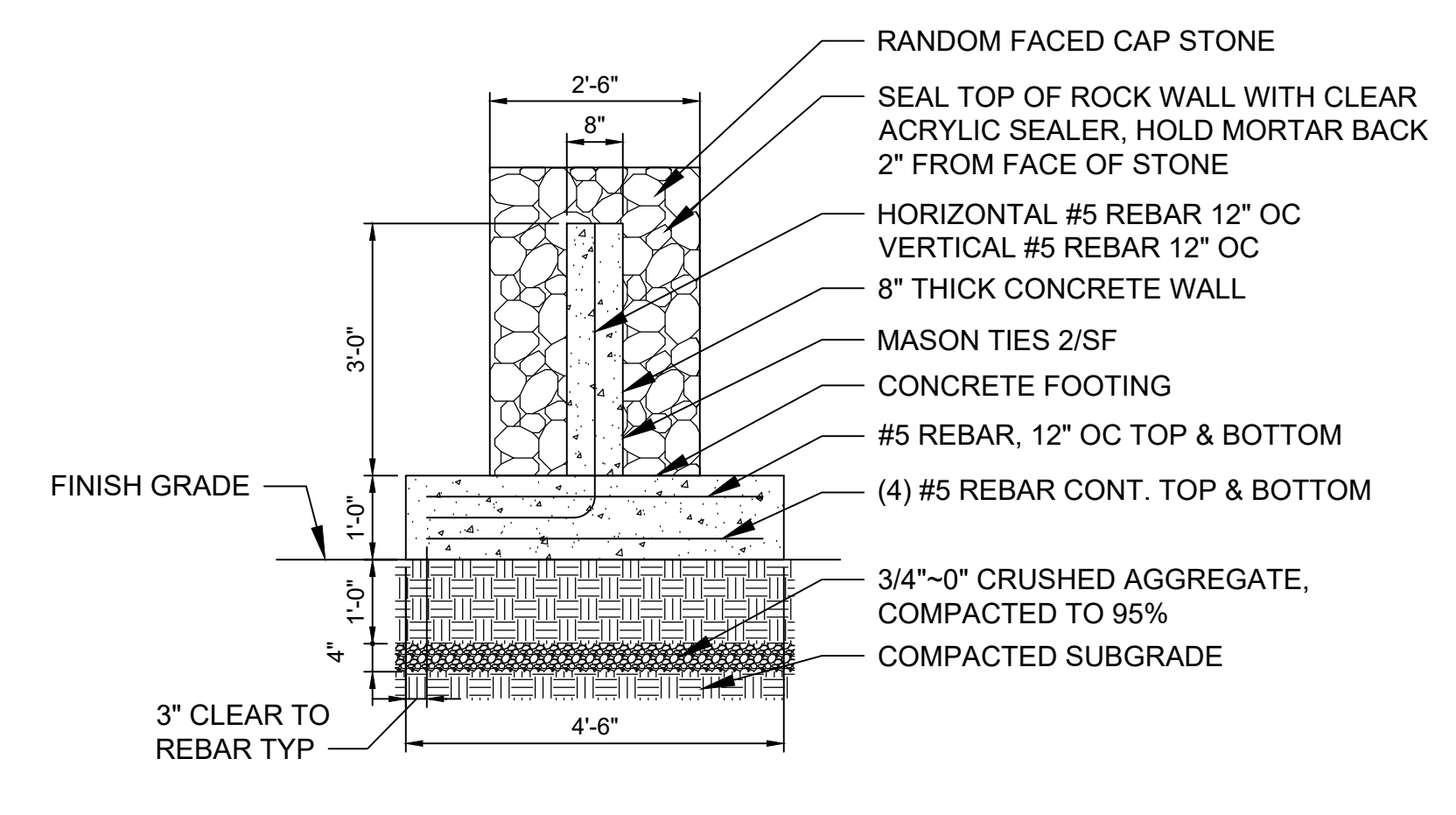
**ENTRANCE GATE PLAN**  
NO SCALE



**ENTRANCE GATE SECTION**  
NO SCALE



**ADDRESS PLACARD PLAN**  
SCALE: 1/2" = 1'-0"



**ADDRESS PLACARD SECTION**  
SCALE: 1/2" = 1'-0"

DSGN	M. CARLSON					
DR	J. GLASGOW					
CHK	R. BROWN					
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY	APVD

VERIFY SCALE  
BAR IS ONE INCH ON ORIGINAL DRAWING.  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



**Willamette Water Supply**  
*Our Reliable Water*  
WILLAMETTE WATER SUPPLY PROGRAM  
RWF\_1.0

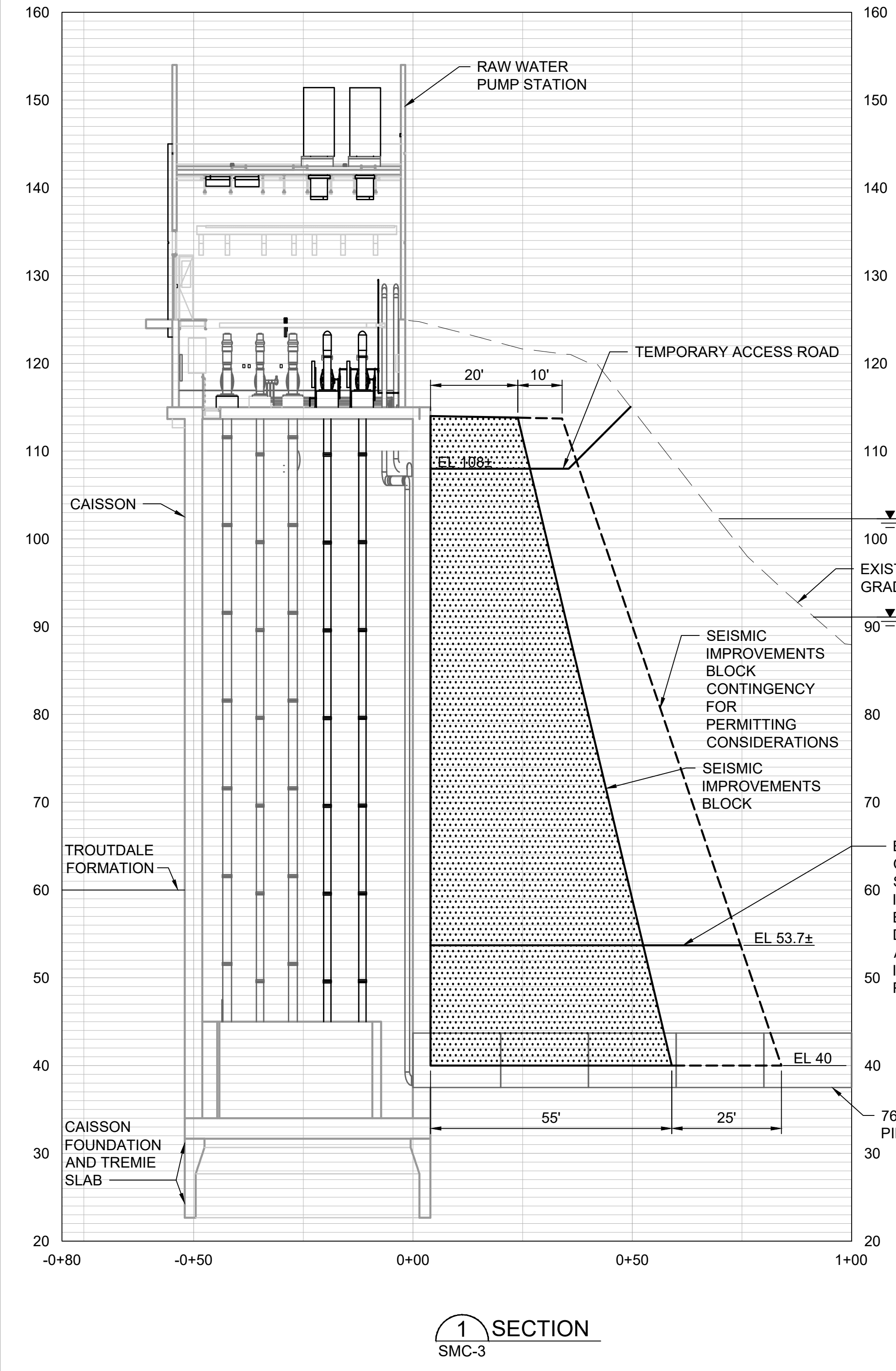
PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
**ENTRANCE GATE**

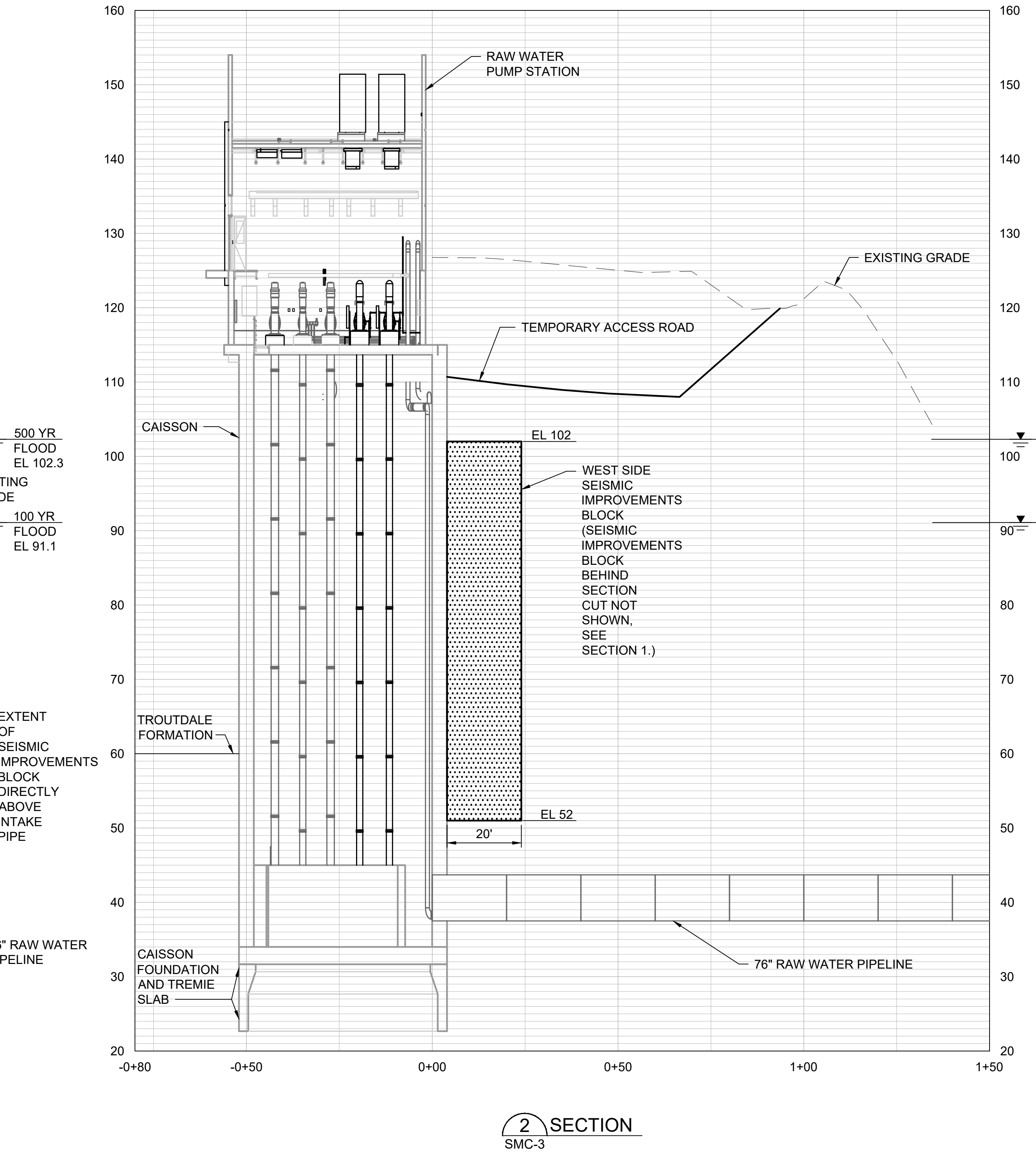
SHEET	32
DWG	LUP-27
DATE	07/12/19
PROJ	196999



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 BY: COGLIANESE, CHRISTOPHER J.



SECTION 1  
SMC-3



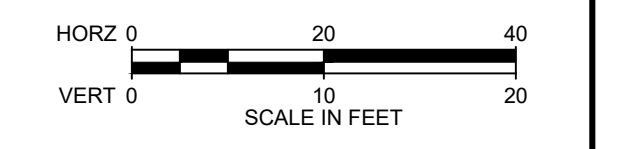
SECTION 2  
SMC-3

GENERAL SHEET NOTES

1. ALL ELEVATIONS ARE SHOWN IN NAVD 29.
2. NO OCCUPIED FACILITIES ARE CONSTRUCTED WITHIN THE 100 YEAR OR 500 YEAR FLOOD ZONE.
3. NO WORK RELATED TO THIS PROJECT IMPACTS THE 100 YEAR FLOOD PLAIN.

SHEET KEYNOTES

LEGEND



DSGN	M. CARLSON				
DR	C.J. COGLIANESE				
CHK	R. BROWN				
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY

VERIFY SCALE  
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**Willamette Water Supply**  
*Our Reliable Water*  
 WILLAMETTE WATER SUPPLY PROGRAM  
 RWF\_1.0

PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
 BANK STABILIZATION PROFILE

SHEET	33
DWG	LUP-28
DATE	07/12/19
PROJ	196999

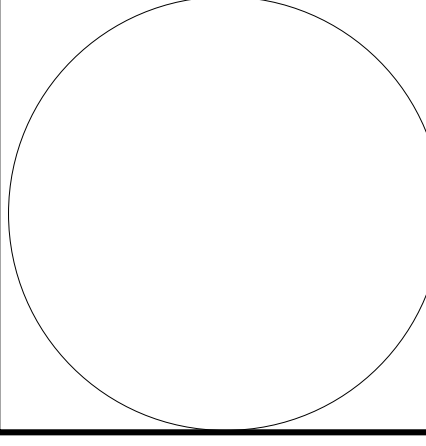
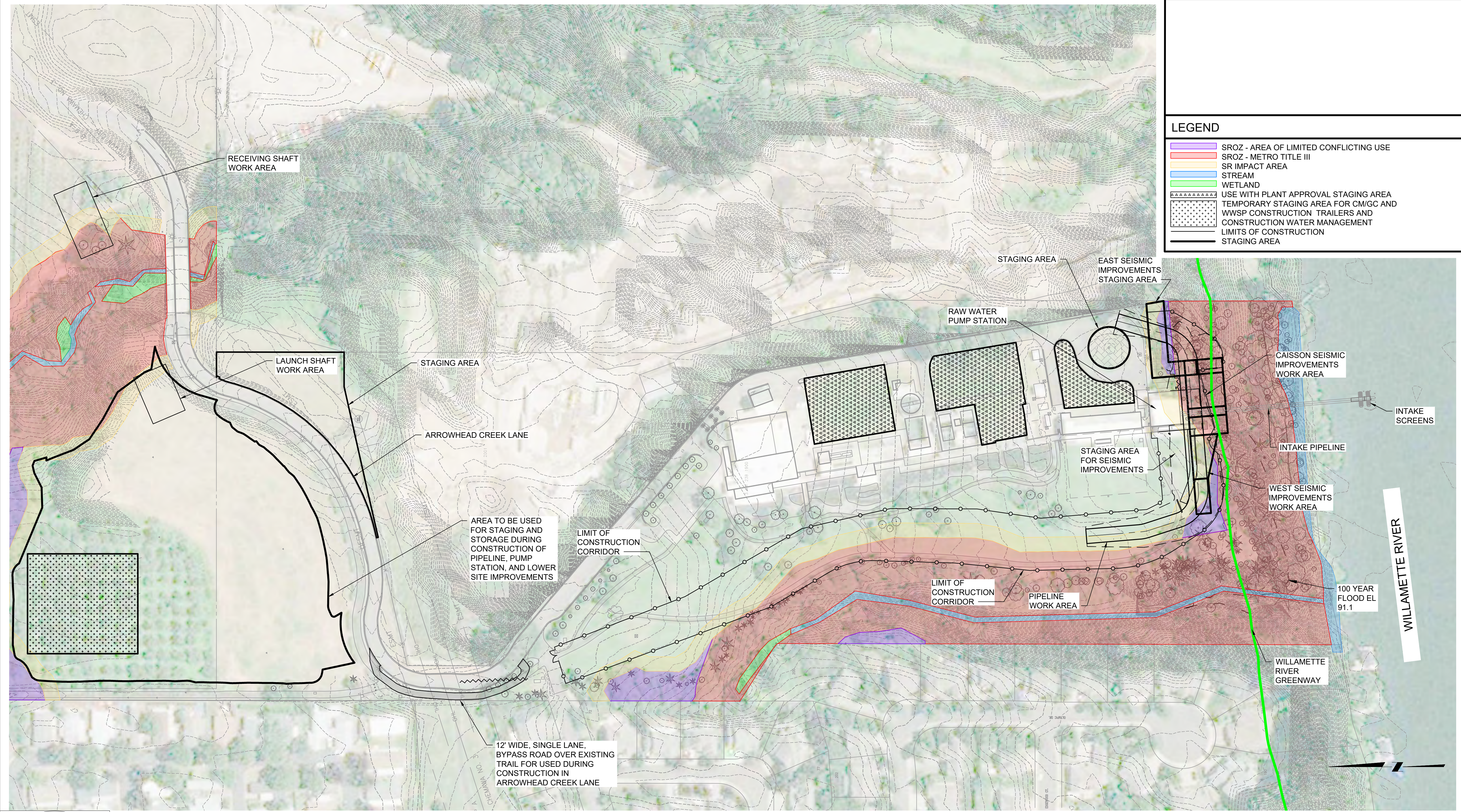


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 PLOT DATE: Tuesday, November 5, 2019 1:04:38 PM  
 BY: COGLIANESE, CHRISTOPHER J.

**GENERAL SHEET NOTES**

**LEGEND**

	SROZ - AREA OF LIMITED CONFLICTING USE
	SROZ - METRO TITLE III
	SR IMPACT AREA
	STREAM
	WETLAND
	USE WITH PLANT APPROVAL STAGING AREA
	TEMPORARY STAGING AREA FOR CM/GC AND WWSP CONSTRUCTION TRAILERS AND CONSTRUCTION WATER MANAGEMENT
	LIMITS OF CONSTRUCTION
	STAGING AREA



DSGN	M. CARLSON							
DR	C.J. COGLIANESE							
CHK	R. BROWN							
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY	APVD		

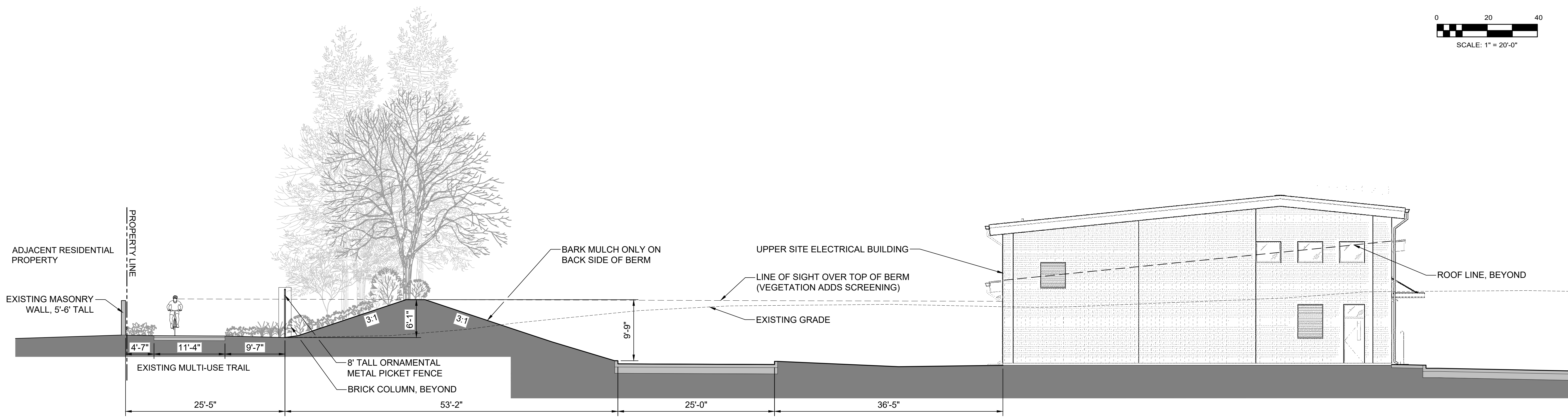
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**PRELIMINARY, SUBJECT TO CHANGE**  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

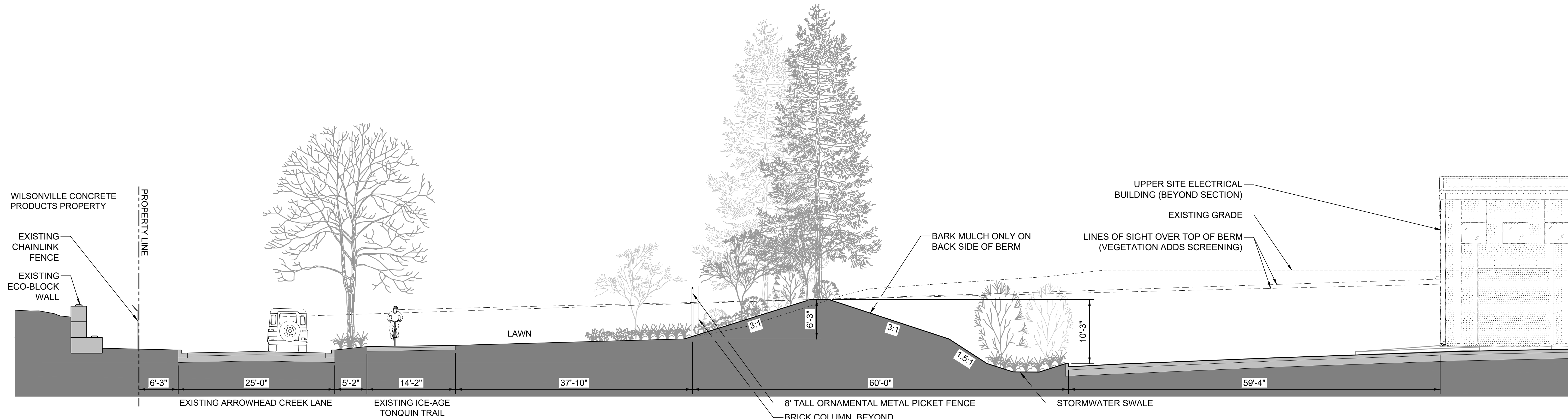
LAND USE PERMIT  
 PROPOSED WORK ZONES

SHEET	34
DWG	LUP-29
DATE	11/5/19
PROJ	196999





**SECTION A (FACING NORTH)**  
SCALE: 1/8" = 1'-0"  
A  
LUP-17



**SECTION B (FACING WEST)**  
SCALE: 1/8" = 1'-0"  
B  
LUP-17

PRELIMINARY, SUBJECT TO CHANGE  
LAND USE PERMIT (NOT FOR CONSTRUCTION)

DSGN	A.HOLDER								
DR	A.HOLDER								
CHK	D.WALTERS								
APVD	M.FAHA	NO.	DATE	REVISION	BY	APVD			

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LAND USE PERMIT  
UPPER SITE PERSPECTIVES

SHEET	35
DWG	LUP-30
DATE	07/12/19
PROJ	196999



ARCHITECTURAL SYMBOL LEGEND

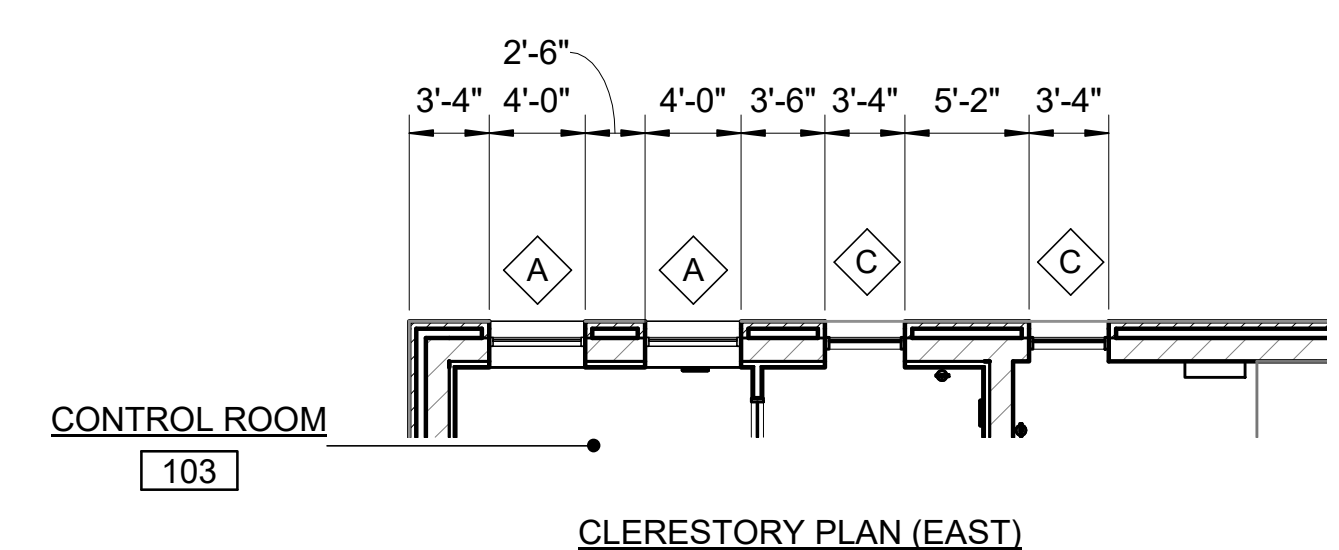
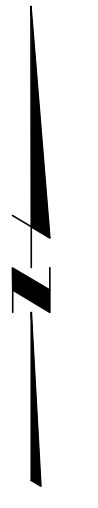
- 1. SEE DRAWING USA-12 FOR WALL TYPES.

SHEET KEYNOTES

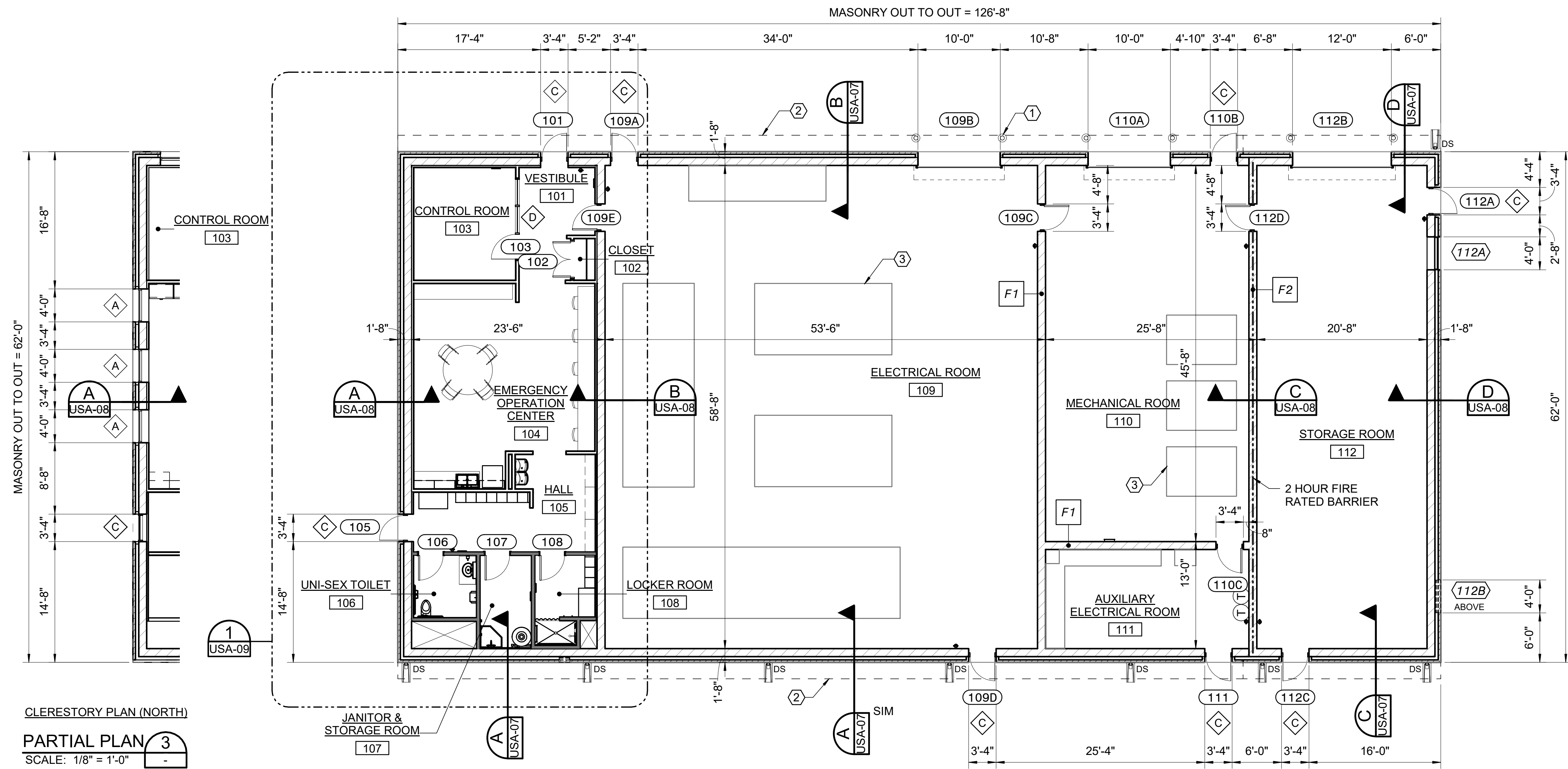
- 1. BOLLARD, TYPICAL, SEE CIVIL DRAWINGS.
- 2. ROOF OUTLINE ABOVE.
- 3. EQUIPMENT PADS, TYP. SEE STRUCTURAL DRAWINGS.

ARCHITECTURAL SYMBOL LEGEND

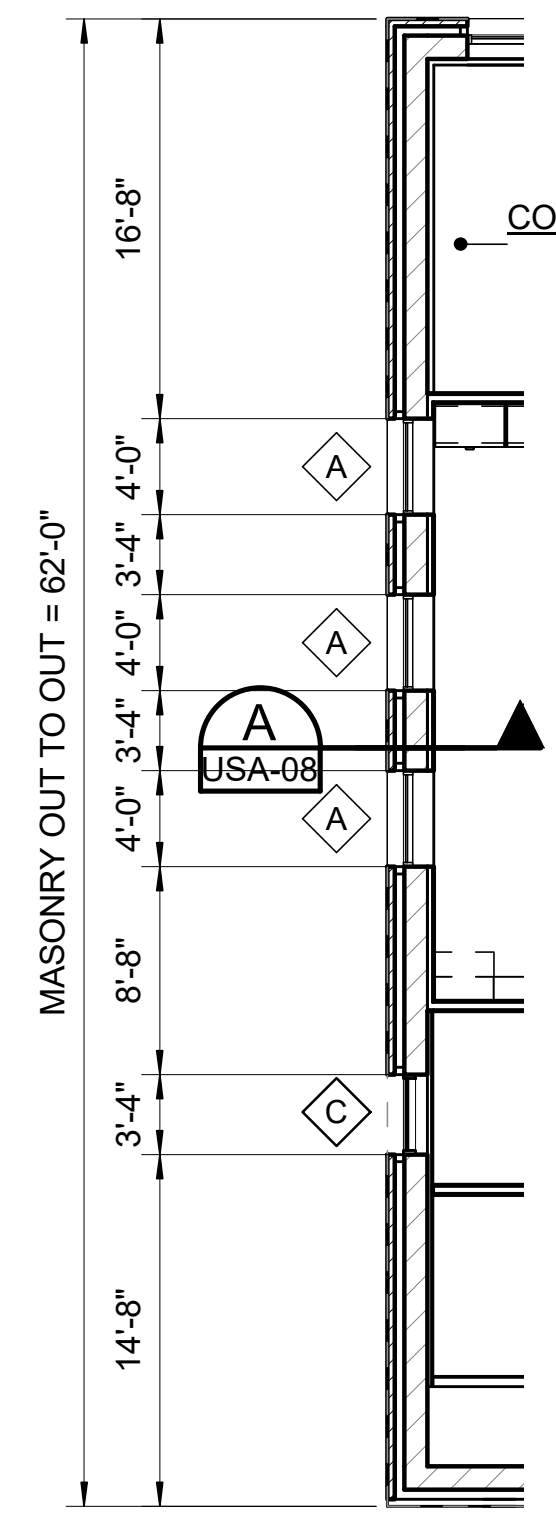
- (XX) ACCESSORY ITEM
- (101A) DOOR
- (101A) LOUVER
- (A1) WALL TYPE
- (W) WINDOW
- (WS) WINDOW SYSTEM or FRAME TYPE
- ROOM NAME ROOM NAME & NUMBER
- (101)



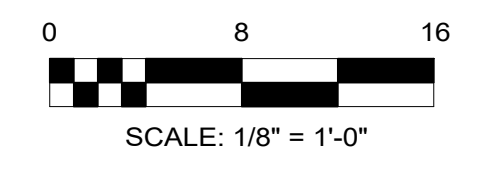
CLERESTORY PLAN (EAST)  
PARTIAL PLAN 2  
SCALE: 1/8" = 1'-0"



OPERATING LEVEL FLOOR PLAN  
PLAN 1  
SCALE: 1/8" = 1'-0"



CLERESTORY PLAN (NORTH)  
PARTIAL PLAN 3  
SCALE: 1/8" = 1'-0"



DSGN	P. RISHEL				
DR	D. YEAROUT, D. DENNEY				
CHK	D. TRUPKA				
APVD	---	NO.	DATE	REVISION	BY

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**Black & Veatch Architects, PLLC**  
Registered and Authorized to Practice  
Architecture in the State of Oregon  
8400 Ward Parkway  
Kansas City, Missouri 64114



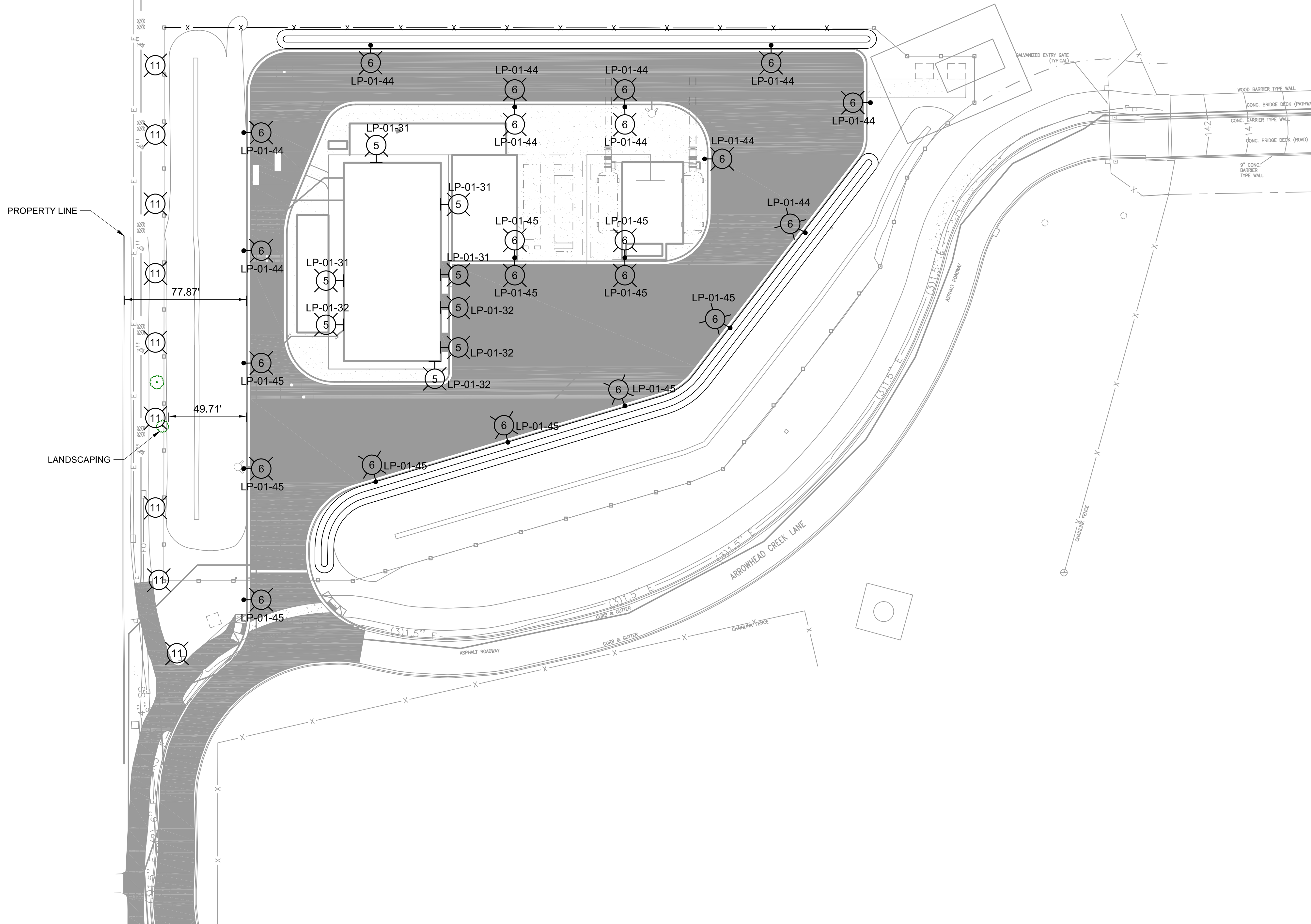
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WILLAMETTE WATER SUPPLY PROGRAM  
RWF\_1.0

PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT	
OPERATING FLOOR PLAN	
SHEET	36
DWG	LUP-31
DATE	07/12/19
PROJ	196999



DWG FILE: C:\pwworking\byw\_americas\WSP\SHEET SETS\LAND USE LANDSCAPE\RWF\_1.0\LUP-28.dwg PLOT DATE: Wednesday, May 25, 2016 1:37:44 PM BY: BLASCO, JOHN



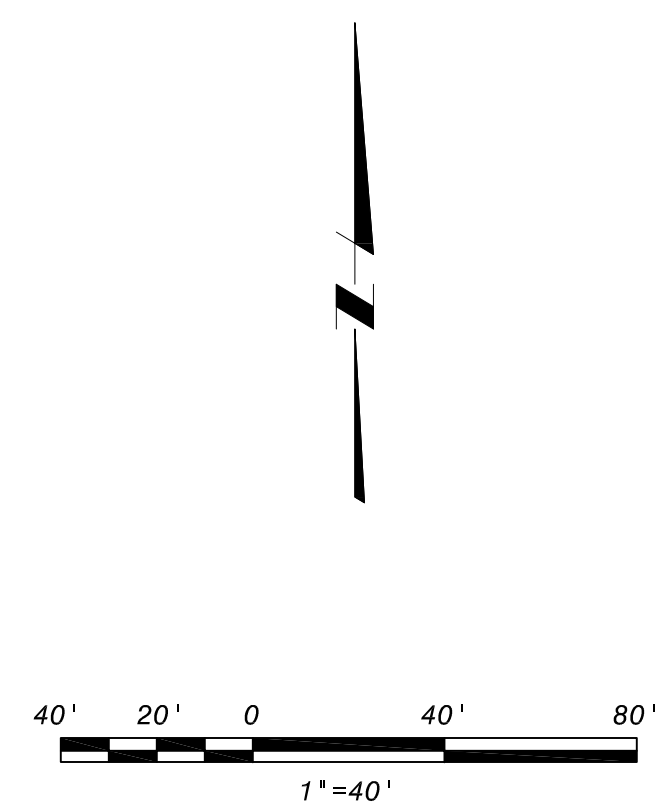
**GENERAL NOTES**

- SEE DRAWINGS GEE-01 AND GEE-02 FOR ELECTRICAL LEGENDS, ABBREVIATIONS AND NOTES.
- LIGHT FIXTURES ARE POLE-MOUNTED 20' ABOVE GRADE.
- 102 LAMP WATTAGE.
- REFER TO LIGHTING FIXTURE SCHEDULE ON GEE-03 FOR LIGHT FIXTURE NUMBERS AND DETAILS.

**SHEET KEYNOTES**

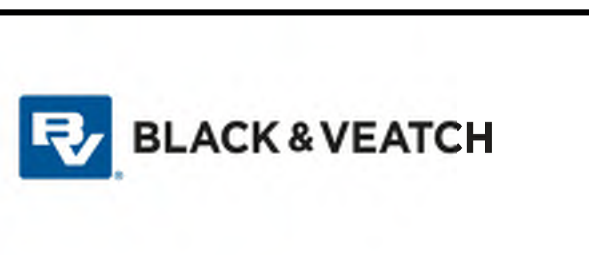
**LEGEND**

- POLE MOUNTED LIGHT FIXTURE.
- WALL MOUNTED LIGHT FIXTURE.
- GROUND MOUNTED LIGHT FIXTURE.



DSGN	A. TRUMAN				
DR	R. COSSYLEON				
CHK	R. BROWN				
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY

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PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
**OUTDOOR LIGHTING PLAN**

SHEET	37
DWG	LUP-32
DATE	07/12/19
PROJ	196999



BY: BLASCO, JOHN

PLOT DATE: Wednesday, May 25, 2016 1:37:44 PM

DWG FILE: C:\pwworking\blw\_america\cas\WVSP\SP\SHEET SETS\GENERAL (GEE)\RWF\_1.0\_GEE-03.dwg

LIGHTING FIXTURE SCHEDULE				
FIXTURE	LAMP	MOUNTING HGT	DESCRIPTION	MANUFACTURER
1	67W LED 8850 LUMENS	AS NOTED ON PLANS	EVT4, 8000 LUMENS, CLEAR POLYCARBONATE LENS, WIDE DISTRIBUTION, MVOLT 120/277, GZ10 DRIVER, 5000K, 80 CRI, CHAIN MOUNT BRACKET	HOLOPHANE: EVT4 8000LM PCL WD MVOLT GZ10 50K 80 CRI VAPCMB
1E	67W LED 8850 LUMENS	AS NOTED ON PLANS	EVT4, 8000 LUMENS, CLEAR POLYCARBONATE LENS, WIDE DISTRIBUTION, MVOLT 120/277, GZ10 DRIVER, 5000K, 80 CRI, CHAIN MOUNT BRACKET, BODINE EMERGENCY LED BATTERY PACK FOR -20°C AND UP	HOLOPHANE: EVT4 8000LM PCL WD MVOLT GZ10 50K 80 CRI VAPCMB BSL520
2	99W LED 12000 LUMENS	AS NOTED ON PLANS	EVT4, 12000 LUMENS, CLEAR POLYCARBONATE LENS, WIDE DISTRIBUTION, MVOLT 120/277, GZ10 DRIVER, 5000K, 80 CRI, CHAIN MOUNT BRACKET	HOLOPHANE: EVT4 12000LM PCL WD MVOLT GZ10 50K 80 CRI VAPCMB
2E	99W LED 12000 LUMENS	AS NOTED ON PLANS	EVT4, 12000 LUMENS, CLEAR POLYCARBONATE LENS, WIDE DISTRIBUTION, MVOLT 120/277, GZ10 DRIVER, 5000K, 80 CRI, CHAIN MOUNT BRACKET, BODINE EMERGENCY LED BATTERY PACK FOR -20°C AND UP	HOLOPHANE: EVT4 12000LM FST MD MVOLT GZ10 50K 90 CRI VAPCMB BSL520
3	33W LED 4000 LUMENS	AS NOTED ON PLANS	EVT4, 4000 LUMENS, CLEAR POLYCARBONATE LENS, MEDIUM DISTRIBUTION, MVOLT 120/277, GZ10 DRIVER, 5000K, 90 CRI, CHAIN MOUNT BRACKET	HOLOPHANE: EVT4 4000LM PCL MD MVOLT GZ10 50K 90 CRI VAPCMB
3E	33W LED 4000 LUMENS	AS NOTED ON PLANS	EVT4, 4000 LUMENS, CLEAR POLYCARBONATE LENS, MEDIUM DISTRIBUTION, MVOLT 120/277, GZ10 DRIVER, 5000K, 90 CRI, CHAIN MOUNT BRACKET, BODINE EMERGENCY LED BATTERY PACK FOR -20°C AND UP	HOLOPHANE: EVT4 4000LM PCL MD MVOLT GZ10 50K 90 CRI VAPCMB BSL520
4	67W LED 8000 LUMENS	AS NOTED ON PLANS	EVT4, 8000 LUMENS, FROSTED POLYCARBONATE LENS, MEDIUM DISTRIBUTION, MVOLT 120/277, GZ10 DRIVER, 5000K, 90 CRI, CHAIN MOUNT BRACKET	HOLOPHANE: EVT4 8000LM FST MD MVOLT GZ10 50K 90 CRI VAPCMB
4E	67W LED 8000 LUMENS	AS NOTED ON PLANS	EVT4, 8000 LUMENS, FROSTED POLYCARBONATE LENS, MEDIUM DISTRIBUTION, MVOLT 120/277, GZ10 DRIVER, 5000K, 90 CRI, CHAIN MOUNT BRACKET, BODINE EMERGENCY LED BATTERY PACK FOR -20°C AND UP	HOLOPHANE: EVT4 8000LM FST MD MVOLT GZ10 50K 90 CRI VAPCMB BSL520
5	30 LED 8151 LUMENS 71 WATTS	AS NOTED ON PLANS	HLWPC2 WALLPACK FULL CUTOFF LED, P30 7800lm, 3000K CCT, 120V, TYPE 3 SHORT, BLACK, 80CRI, MOTION/AMBIENT SENSOR, 15'-30' MOUNTING HEIGHT AMBIENT SENSOR ENABLED AT 1 FOOT CANDLE	HOLOPHANE: HLWPC2 P30 30K 120V T3S BKSDP 80CRI MASH
6	30 LED 12465 LUMENS 102 WATTS	25' ABOVE FINISHED GRADE	D-SERIES SIZE 1 LED, DSX1, P3, 3000K, TYPE IV MEDIUM DISTRIBUTION, MVOLT, SQUARE POLE MOUNTING, B-LEVEL MOTION/AMBIENT SENSOR, 15'-30' MOUNTING HEIGHT AMBIENT SENSOR ENABLED AT 5 FOOT CANDLES, HOUSE SHIELD, BLACK	LITHONIA: DSX1 P3 30K T4M MVOLT SPA PIRH HS DBLXD
SSS (D1)	N/A	N/A	SQUARE STRAIGHT STEEL POLE, DRILLING FOR 1 UNIT, MONGOOSE ONLY, BLACK PAINT, TAMPER RESISTANT SCREWS, VIBRATION DAMPENERS	HOLOPHANE: SSS2044C D1 R3 BK 3 4
SSS (D2)	N/A	N/A	SQUARE STRAIGHT STEEL POLE, DRILLING FOR 2 UNITS @ 180", MONGOOSE ONLY, BLACK PAINT, TAMPER RESISTANT SCREWS, VIBRATION DAMPENERS	HOLOPHANE: SSS2044C D2 R3 BK 3 4
7	17.5W LED 2500 LUMENS	AS NOTED ON PLANS	2X2 VTL, 2000 LUMENS, ACRYLIC LINEAR PRISMATIC, MVOLT, GZ10 DRIVER, 5000K 80CRI	LITHONIA: 2VTL2 20L ADP MVOLT GZ10 LP850
7E	17.5W LED 2500 LUMENS	AS NOTED ON PLANS	2X2 VTL, 2000 LUMENS, ACRYLIC LINEAR PRISMATIC, MVOLT, GZ10 DRIVER, 5000K 80CRI, 700 LUMEN BATTERY PACK	LITHONIA: 2VTL2 20L ADP MVOLT GZ10 LP850 EL7L
8	10.5W LED 600 LUMENS	AS NOTED ON PLANS	6" BAFFLE LED MODULE, MATTE WHITE, LED, 3000K, 93 CRI10.25W, 600L, 120V	LITHONIA: 6BPMW LED 30K 90 CRI 120V
9	14.9W LED 1000 LUMENS	AS NOTED ON PLANS	4" EVO4SH, 3000K, 1000 LUMENS, REGRESSED LENSED TRIM, TEXTURED LENS, 120V, EZ10 DRIVER	LITHONIA: EVO4SH 30K 10 4DFR SOL 120V EZ10
10	45W LED 6321 LUMENS	AS NOTED ON PLANS	EMS, L48, 6000 LUMENS, ACRYLIC DEEP FROSTED LENS, WIDE, 120V, GZ10 DRIVER, 4000K, 80 CRI, 10' SINGLE LEG AIR CRAFT CABLE STAINLESS STEEL	HOLOPHANE: EMS L48 6000LM IMAFD WD 120V GZ10 40K 80 CRI MHK120SS
10E	45W LED 6321 LUMENS	AS NOTED ON PLANS	EMS, L48, 6000 LUMENS, ACRYLIC DEEP FROSTED LENS, WIDE, 120V, GZ10 DRIVER, 4000K, 80 CRI, BODINE EMERGENCY LED BATTERY PACK FROM -20°C AND UP, 10' SINGLE LEG AIR CRAFT CABLE STAINLESS STEEL	HOLOPHANE: EMS L48 6000LM IMAFD WD 120V GZ10 40K 80 CRI BSL520 MHK120SS
11	16W LED 1194 LUMENS	AS NOTED ON PLANS	D SERIES LED, 12 LED'S, 350mA, 3000K, ASYMMETRIC, MVOLT, PHOTOELECTRIC CELL BUTTON TYPE, BLACK	LITHONIA: DSXB 12C 350 30K ASY MVOLT PE DBLXD

LIGHTING FIXTURE SCHEDULE				
FIXTURE	LAMP	MOUNTING HGT	DESCRIPTION	MANUFACTURER
EXIT	EMERGENCY EXIT AND LIGHTING LED	AS NOTED ON PLANS	LITHONIA, STENCIL, WHITE, SINGLE FACE WITH EXTRA FACEPLATE AND COLOR PANEL, RED, 120 VOLT	LITHONIA: LOM S W 3 R 120 X2
ⓓ	N/A	AS NOTED ON PLANS	AUTOMATIC DIMMING PHOTOCELL, 120-277 MVOLT, 10VDC MAX DIM LEVEL, 0VDC MIN DIM LEVEL, 42" LEAD LENGTH, SINGLE	ACUITY: LSXR ADC 120-277 MVOLT 10VDC-0VDC 42L SINGLE

PHASE		PANELBOARD: 2-LP-B (EXISTING)		BUS: COPPER		MAINS: LUGS ONLY		PHASE	
"A"	"B"	"C"	LOAD	P	BKR	CKT #	BKR	P	"A"
V.A.	V.A.	V.A.							V.A.
			ELECTRICAL RM OUTLETS	3	20	1	2	20	1
			COMPRESSOR RM OUTLETS	-	--	3	4	20	1
			ROOF OUTLETS	-	--	5	6	20	1
			PUMP RM OUTLETS	1	20	7	8	20	1
			LOUVER POWER	1	20	9	10	20	1
			03-FIT-001	1	20	11	12	20	1
			ELECTRICAL RM LIGHTS	1	20	13	14	20	1
			COMPRESSOR RM LIGHTS	1	20	15	16	20	1
			E-LIGHTS	1	20	17	18	20	1
			PUMP RM LIGHTS	1	20	19	20	20	1
			PUMP RM LIGHTS	1	20	21	22	20	1
			PUMP RM LIGHT CONTACTOR	1	20	23	24	20	1
			2-F-10 COMPRESSOR ROOM	1	20	25	26	20	1
			2-F-8 ELECTRICAL RM	1	20	27	28	20	1
			SPACE	1	29	30			
			SPACE	1	31	32			
			SPACE	1	33	34			
			SPACE	1	35	36			
1200			MSH RELAY PANEL	1	20	37	38	20	1
100			LIT_4000A/LIT_4000B	1	20	39	40	20	1
			SPARE	1	20	41	42	20	1
			TOTAL "A"					1700	
			TOTAL "B"					150	
			TOTAL "C"					360	
			TOTAL					2210	

PHASE		PANELBOARD: LP-01		BUS: COPPER		MAINS: 3P-150A MAIN BREAKER		PHASE	
"A"	"B"	"C"	LOAD	P	BKR	CKT #	BKR	P	"A"
V.A.	V.A.	V.A.							V.A.
500			ENC 5000	1	20	1	2	20	1
			SPARE	1	20	3	4	20	1
			SPARE	1	20	5	6	20	1
50			FIT/FE_5100	1	20	7	8	50	2
	3640		HP-01 (35 MCA)	2	50	9	10	--	--
		3640		--	--	11	12	20	1
750			BH-01	1	20	13	14	20	1
	750		BH-02	1	20	15	16	20	1
		1000	BH-03	1	20	17	18	20	1
80			LTG-VESTIBULE	1	20	19	20	20	1
	220		LTG-EM OPER CENTER	1	20	21	22	20	1
		120	LTG-BATHROOM JANITOR LOCKER	1	20	23	24	20	1
1091			LTG-ELEC ROOM 1	1	20	25	26	20	1
	220		LTG-MECH ROOM 1	1	20	27	28	20	1
		764	LTG-AUX ELEC ROOM	1	20	29	30	20	1
284			LTG-STORAGE ROOM 1	1	20	31	32	20	1
	720		LTG-STORAGE ROOM 2	1	20	33	34	20	1
		1080	LTG-OUTDOORS NORTH	1	20	35	36	20	1
			RECP-VESTIBULE CONTROL ROOM	1	20	37	38	20	1
			RECP-HALL, BATH, JANITOR, LOCKER	1	20	39	40	20	1
900			RECP-ELEC ROOM	1	20	41	42	20	1
	1260		RECP-MECH ROOM	1	20	43	44	20	1
		720	RECP-STORAGE ROOM	1	20	45	46	20	1
			RECP-OUTDOOR SOUTH	1	20	47	48	20	1
500			HT-01 (NOTE 1)	1	20	49	50	20	1
	1122		SITE LIGHTING SOUTH SIDE	1	20	51	52	20	1
			SITE LIGHTING NORTH SIDE	1	20	53	54	20	1
			SPARE	1	20	55	56	20	1
			SPARE	1	20	57	58	20	1
			SPARE	1	20	59	60	20	1
			SPARE	1	20	61	62	20	1
			SPARE	1	20	63	64	20	1
			SPARE	1	20	65	66	20	1
			SPARE	1	20	67	68	20	1
			SPARE	1	20	69	70	20	1
4135			TOTAL "A"					11231	
	7932		TOTAL "B"					14737	
		7324	TOTAL "C"					11560.3	
			TOTAL					37528.3	

GENERAL SHEET NOTES

DSGN	A. TRUMAN								
DR	T. GOODWIN								
CHK	S. STOCKAM								
APVD	A. TRUMAN	NO.	DATE	REVISION	BY	APVD			

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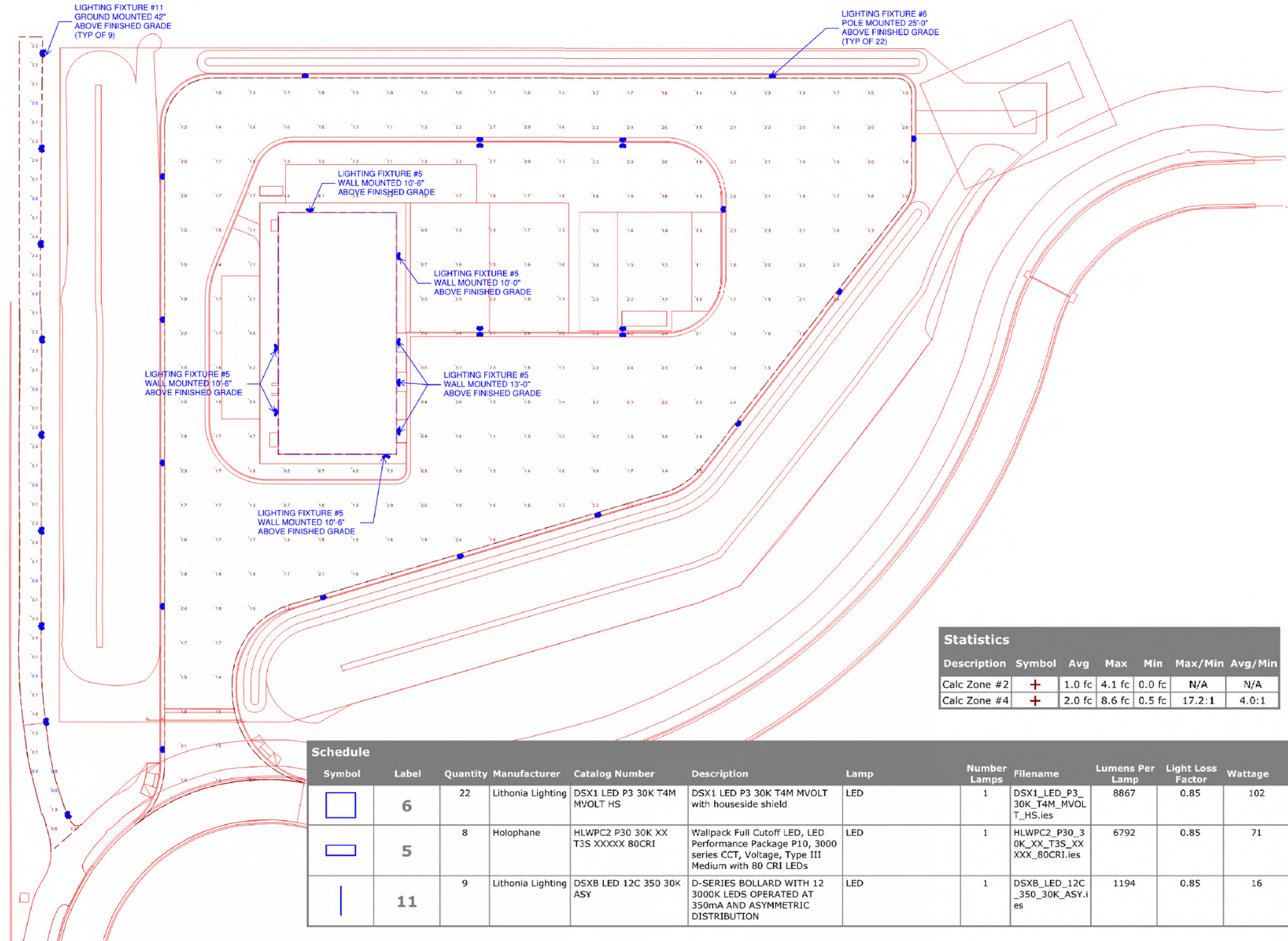


PRELIMINARY, SUBJECT TO CHANGE  
LAND USE PERMIT (NOT FOR CONSTRUCTION)

LAND USE PERMIT		SHEET 38
PANEL AND LIGHTING FIXTURE SCHEDULE		DWG GEE-03
		DATE 07/12/19
		PROJ 196999



DWG FILE: C:\pwworking\byw\_america\cas\WVSP\SHEET SETS\LAND USE LANDSCAPE\RFW\_1.0 000-VSC.dwg PLOT DATE: Wednesday, May 25, 2016 1:37:44 PM BY: BLASCO, JOHN



Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #2	+	1.0 fc	4.1 fc	0.0 fc	N/A	N/A
Calc Zone #4	+	2.0 fc	8.6 fc	0.5 fc	17.2:1	4.0:1

Schedule											
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	6	22	Lithonia Lighting	DSX1 LED P3 30K T4M MVOLT HS	DSX1 LED P3 30K T4M MVOLT with houseside shield	LED	1	DSX1_LED_P3_30K_T4M_MVOL T_HS.ies	8867	0.85	102
	5	8	Holophane	HLWPC2 P30 30K XX T3S XXXXX 80CRI	Wallpack Full Cutoff LED, LED Performance Package P10, 3000 series CCT, Voltage, Type III Medium with 80 CRI LEDs	LED	1	HLWPC2_P30_30K_XX_T3S_XX XXX_80CRI.ies	6792	0.85	71
	11	9	Lithonia Lighting	DSXB LED 12C 350 30K ASY	D-SERIES BOLLARD WITH 12 3000K LEDS OPERATED AT 350mA AND ASYMMETRIC DISTRIBUTION	LED	1	DSXB_LED_12C_350_30K_ASY.ies	1194	0.85	16

GENERAL SHEET NOTES

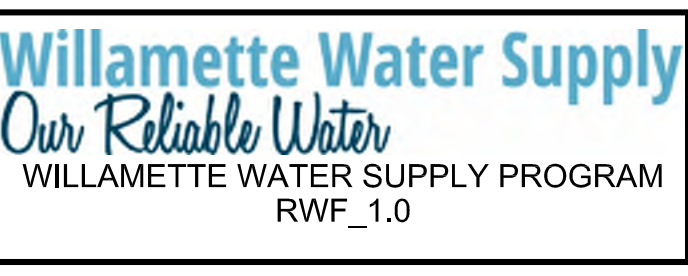
SHEET KEYNOTES

LEGEND

DSGN	A. TRUMAN
DR	J. BLASCO
CHK	S. STOCKAM
APVD	A. TRUMAN

NO.	DATE	REVISION	BY	APVD

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PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**



LAND USE PERMIT  
 VISUAL SITE CALCULATIONS

SHEET	39
DWG	VSC-00
DATE	07/12/19
PROJ	196999



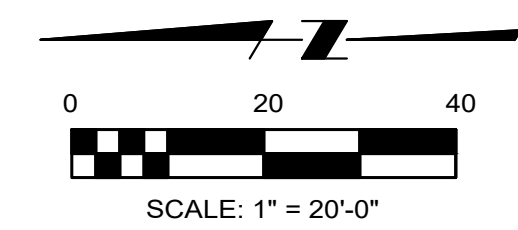
MATCHLINE - SEE SHEET USL-07

**IRRIGATION LEGEND**

-  FULLY AUTOMATIC PERMANENT IRRIGATION SYSTEM
-  TEMPORARY IRRIGATION SYSTEM FOR ESTABLISHMENT OF SWALE PLANTING AND ENTIRE MITIGATION PLANTING AREA

NOTE: SEE SHEET USL-08 FOR IRRIGATION EQUIPMENT AND NOTES; SEE SHEETS USL-09 AND USL-10 FOR IRRIGATION DETAILS.

1 PLAN



PRELIMINARY, SUBJECT TO CHANGE  
 LAND USE PERMIT  
 (NOT FOR CONSTRUCTION)

DSGN	B.DEAN						
DR	B.DEAN						
CHK	D.WALTERS						
APVD	M.FAHA	NO.	DATE	REVISION	BY	APVD	

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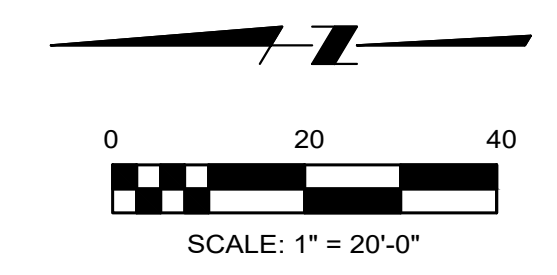
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 WILLAMETTE WATER SUPPLY PROGRAM  
 RWF\_1.0





LAND USE PERMIT  
 IRRIGATION PLAN 1

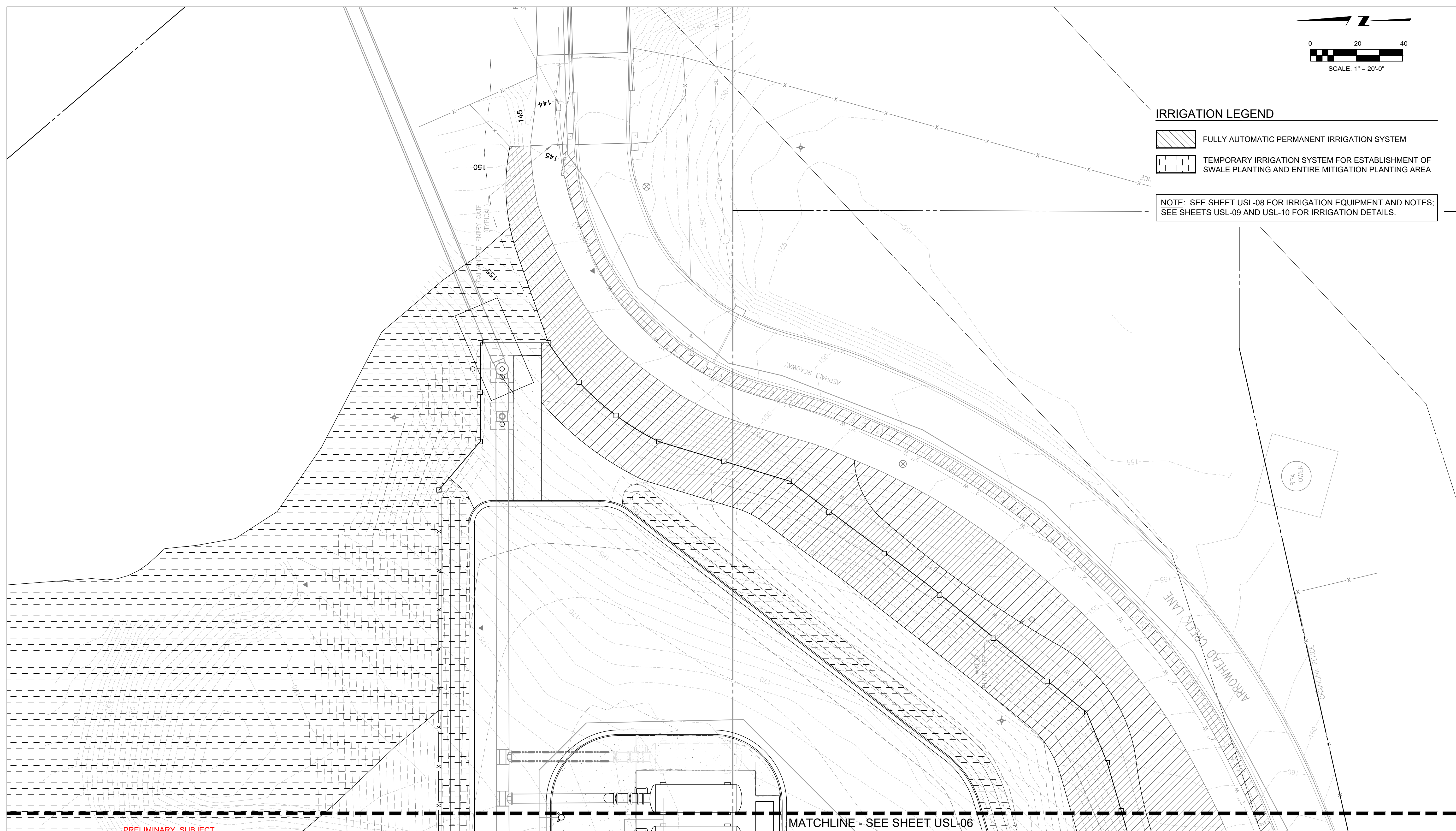
SHEET 40  
 DWG USL-06  
 DATE 07/12/19  
 PROJ 196999





- IRRIGATION LEGEND**
-  FULLY AUTOMATIC PERMANENT IRRIGATION SYSTEM
  -  TEMPORARY IRRIGATION SYSTEM FOR ESTABLISHMENT OF SWALE PLANTING AND ENTIRE MITIGATION PLANTING AREA

NOTE: SEE SHEET USL-08 FOR IRRIGATION EQUIPMENT AND NOTES;  
SEE SHEETS USL-09 AND USL-10 FOR IRRIGATION DETAILS.



PRELIMINARY, SUBJECT TO CHANGE

LAND USE PERMIT (NOT FOR CONSTRUCTION)

1 PLAN

DSGN	B.DEAN						
DR	B.DEAN						
CHK	D.WALTERS						
APVD	M.FAHA	NO.	DATE	REVISION	BY	APVD	

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LAND USE PERMIT  
IRRIGATION PLAN 2

SHEET	41
DWG	USL-07
DATE	07/12/19
PROJ	196999



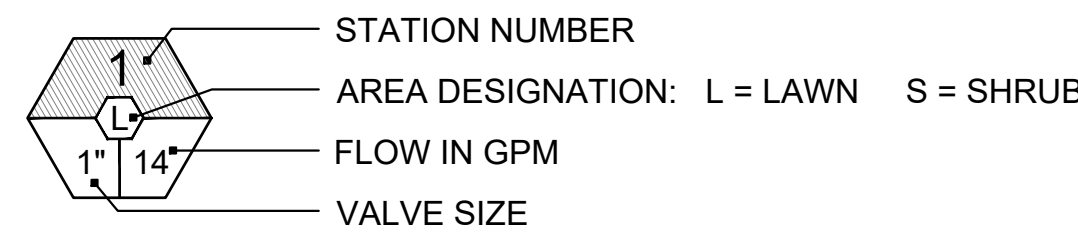
IRRIGATION EQUIPMENT

2-8 1-3  
USL-09 USL-10

SYMBOL DESCRIPTION

- WATER METER - ASSUME EXISTING
- REMOTE CONTROL VALVE - HUNTER ICV
- QUICK COUPLER
- GATE VALVE
- BACKFLOW PREVENTION DEVICE
- IRRIGATION CONTROLLER - HUNTER ACC (CONVENTIONAL TWO-WIRE)
- MANUAL DRAIN VALVE
- IRRIGATION LATERAL LINE - CLASS 200
- IRRIGATION MAIN LINE - SCH 40
- IRRIGATION SLEEVE - SCH 40

CONTROL VALVE TARGET



IRRIGATION KEY

SYMBOL	SPRINKLER BODY	NOZZLE (ARC)	COLOR	GPM	PSI	RADIUS	DETAIL/SHEET
	HUNTER PROS-12-PRS40	HUNTER MPCORNER (45-105°)	TURQUOISE	.45	40	10.5'-14'	2/USL-09
	HUNTER PROS-12-PRS40	HUNTER MPSS530	BROWN	.44	40	5' X 30'	2/USL-09
	HUNTER PROS-12-PRS40	HUNTER MPRC515	COPPER	.22	40	5' X 15'	2/USL-09
	HUNTER PROS-12-PRS40	HUNTER MPLC515	IVORY	.22	40	5' X 15'	2/USL-09
	HUNTER PROS-12-PRS30 -40°	HUNTER MP800SR-360	LIME GREEN AND GRAY	.78	30-40*	6'-10'	2/USL-09
	HUNTER PROS-12-PRS30 -40°	HUNTER MP800SR-90 (180°)	ORANGE AND GRAY	.42	30-40*	6'-10'	2/USL-09
	HUNTER PROS-12-PRS30 -40°	HUNTER MP800SR-90 (90°)	ORANGE AND GRAY	.23	30-40*	6'-10'	2/USL-09
	HUNTER PROS-12-PRS40	HUNTER MP815-90 (180°)	MAROON AND GRAY	.93	40	8'-15'	2/USL-09
	HUNTER PROS-12-PRS40	HUNTER MP815-90 (90°)	MAROON AND GRAY	.49	40	8'-15'	2/USL-09
	HUNTER PROS-12-PRS40	HUNTER MP3000 (360°)	GRAY	3.64	40	23'-30'	2/USL-09
	HUNTER PROS-12-PRS40	HUNTER MP3000 (180°)	BLUE	1.82	40	23'-30'	2/USL-09
	HUNTER PROS-12-PRS40	HUNTER MP3000 (90°)	BLUE	.86	40	23'-30'	2/USL-09
	HUNTER PROS-12-PRS40	HUNTER MP3500 (360°)	LIGHT BROWN	3.29	40	35'	2/USL-09
	HUNTER PROS-12-PRS40	HUNTER MP3500 (180°)	LIGHT BROWN	2.86	40	35'	2/USL-09
	HUNTER 1-20-06-PRB	HUNTER #6.0	BLUE	6.0	45	43'	3/USL-09
	HUNTER 1-20-06-PRB	HUNTER #3.0	BLUE	3.0	45	38'	3/USL-09
	HUNTER I-20-06-PRB	HUNTER #1.5	BLUE	1.5	45	31'	3/USL-09
	HUNTER I-40-06-SS	HUNTER #15	GRAY	14.3	60	57'	3/USL-09
	HUNTER I-40-06-SS	HUNTER #7	ORANGE	7.0	60	47'	3/USL-09

\* WHERE NEEDED TO ACHIEVE 6' RADIUS, PROVIDE HUNTER PROS-12-PRS30 SPRAY BODY TO REGULATE PRESSURE TO 30 PSI

IRRIGATION NOTES

- CALL UTILITIES TO LOCATE EXISTING SERVICES PRIOR TO EXCAVATION.
- SYSTEM OPERATION AND DESIGN IS BASED ON 80 POUNDS OF PRESSURE AND 30 GALLONS AT THE SHUTOFF VALVE. THE CONTRACTOR SHALL VERIFY THE DESIGN PRESSURE AND VOLUME BEFORE INSTALLATION AND NOTIFY OWNER IF THERE IS A DISCREPANCY.
- CONTRACTOR SHALL REFERENCE PLANTING PLAN(S) PRIOR TO INSTALLATION OF VALVES. LOCATE VALVES IN PLANTING BEDS WHEREVER POSSIBLE. ADJUST VALVE LOCATIONS TO ELIMINATE CONFLICT WITH PROPOSED PLANTINGS AND PLANTING PATTERNS.
- VALVE LOCATIONS SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF NEW IRRIGATION SYSTEM.
- THE CONTRACTOR SHALL VERIFY THE DIMENSIONS AND LAYOUT OF ALL NEW PLANTING AND LAWN AREAS ON SITE BEFORE STARTING WORK AND IMMEDIATELY NOTIFY OWNER OF ANY DEVIATIONS FROM PLAN.
- NEW TREE LOCATIONS SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF NEW IRRIGATION SYSTEM.
- THE CONTRACTOR SHALL INSTALL QUICK COUPLING VALVES A MINIMUM OF 200' ALONG MAINLINE AND AS SHOWN ON PLANS AND DETAILS.
- THE CONTRACTOR SHALL INSTALL THE IRRIGATION CONTROLLER(S) AT THE LOCATION(S) SHOWN ON THE DRAWINGS, PER THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION WITH THE OWNER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL EXTEND CONTROL WIRE CONDUIT FROM CONTROLLER AND DAYLIGHT SIX INCHES INTO PLANTING BED FOR INSTALLATION OF AUTOMATIC VALVE WIRES.
- ALL BACKFLOW PREVENTION DEVICES SHALL BE LOCATED A MINIMUM OF 5'-0" AWAY FROM CURBS OR PAVING WHEREVER POSSIBLE.
- MAIN AND LATERAL LINES MAY BE SHOWN DIAGRAMMATICALLY FOR CLARITY. MAIN AND LATERAL LINES SHOWN IN PAVED AREAS SHALL BE PLACED IN ADJACENT PLANTING BEDS UNLESS SPECIFICALLY SHOWN AS PASSING UNDER PAVING IN SLEEVE (SEE LEGEND FOR SLEEVE SYMBOL). THE CONTRACTOR MUST OBTAIN THE OWNER'S REPRESENTATIVE'S APPROVAL BEFORE MAKING CHANGES IN ROUTING OF PIPE OR LOCATION OF VALVES.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING AN APPROPRIATE POWER SUPPLY TO THE IRRIGATION CONTROLLER LOCATION.

PRELIMINARY, SUBJECT TO CHANGE

LAND USE PERMIT (NOT FOR CONSTRUCTION)

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DR	B.DEAN						
CHK	D.WALTERS						
APVD	M.FAHA	NO.	DATE	REVISION	BY	APVD	

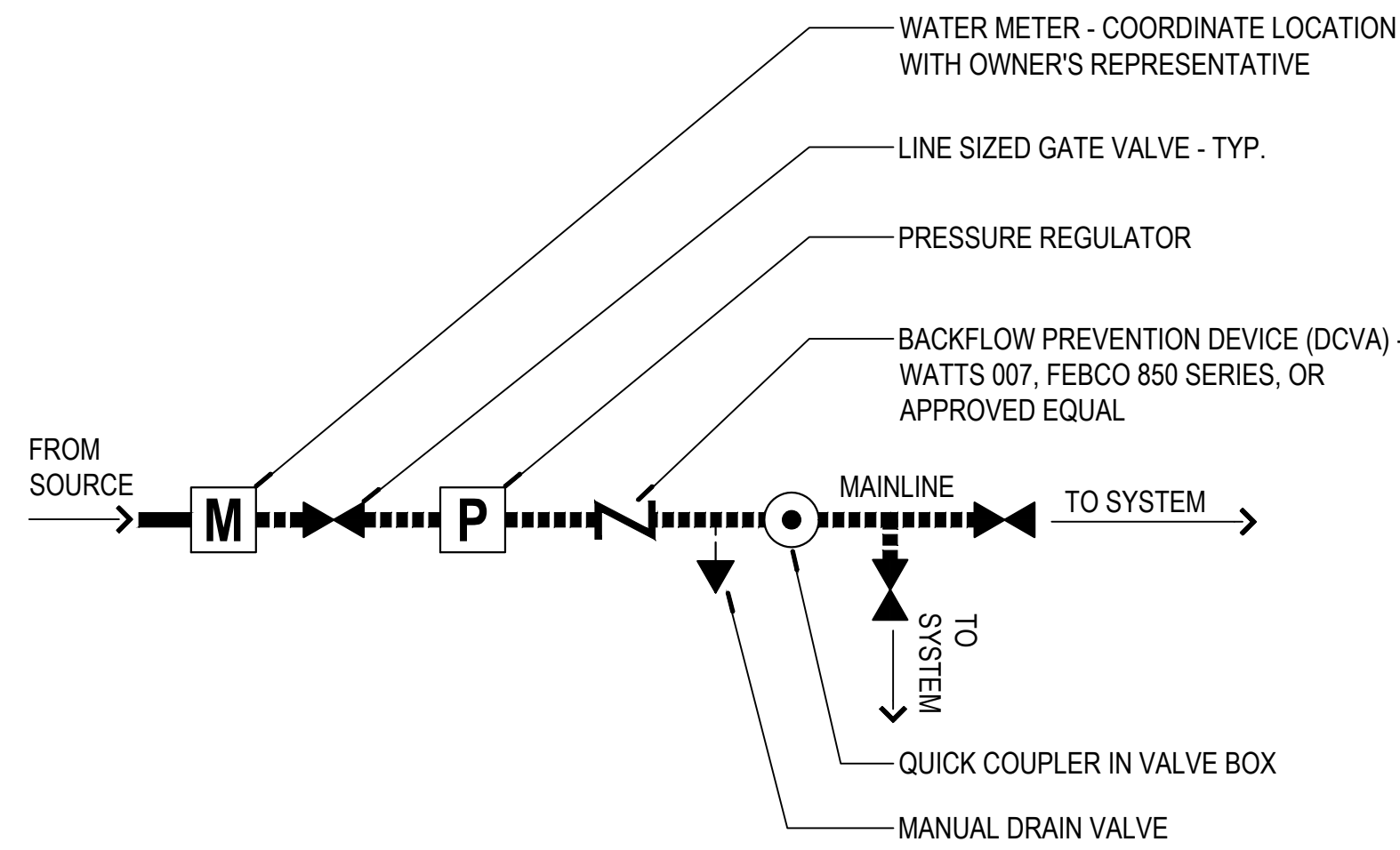
VERIFY SCALE  
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LAND USE PERMIT IRRIGATION LEGEND

SHEET	42
DWG	USL-08
DATE	07/12/19
PROJ	196999

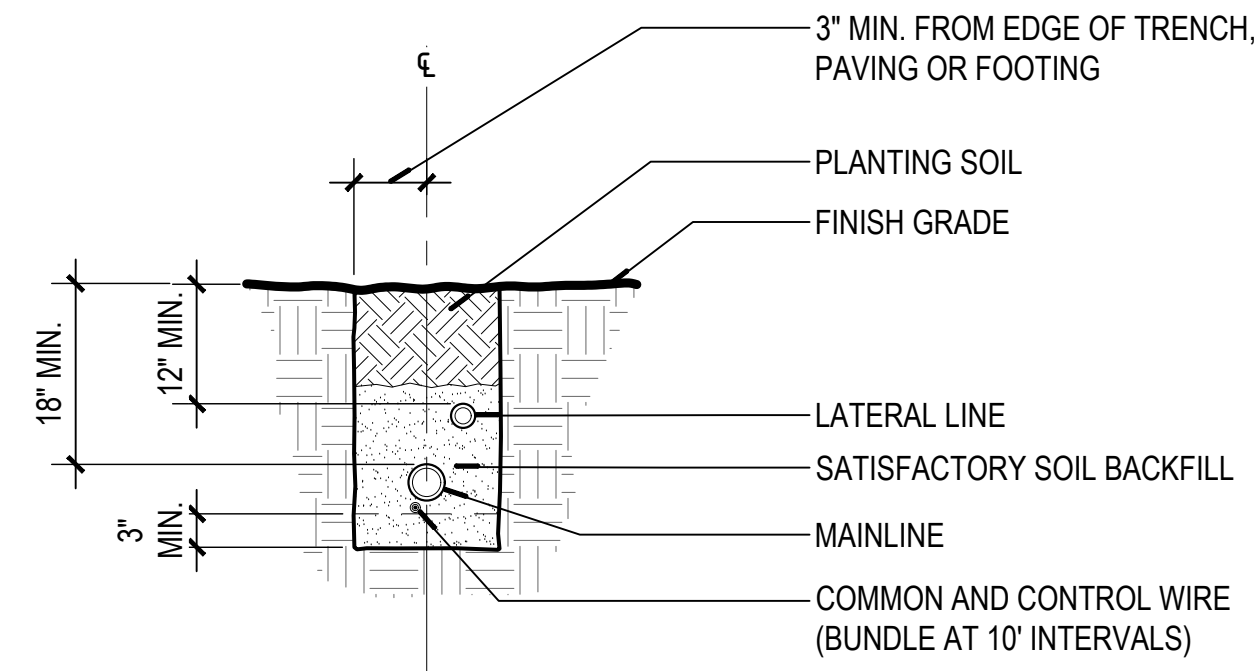




**POINT OF CONNECTION DIAGRAM**  
NTS

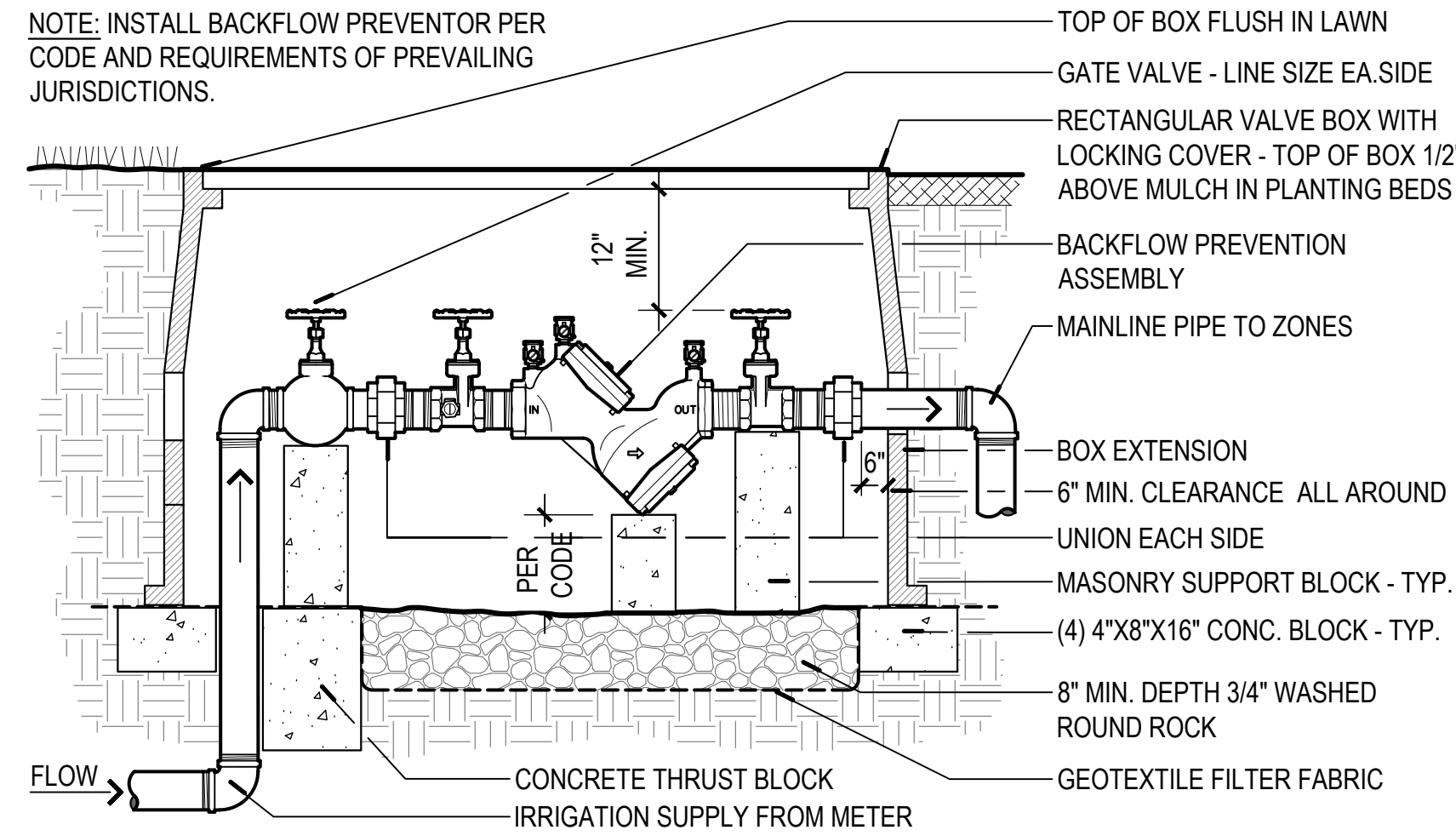
1  
USL-08

NOTE:  
REPAIR TRENCH SETTLEMENT AND RESTORE FINISH GRADES PRIOR TO SEEDING OR PLANTING.



**TRENCHING IN PLANTING AREAS**  
NTS

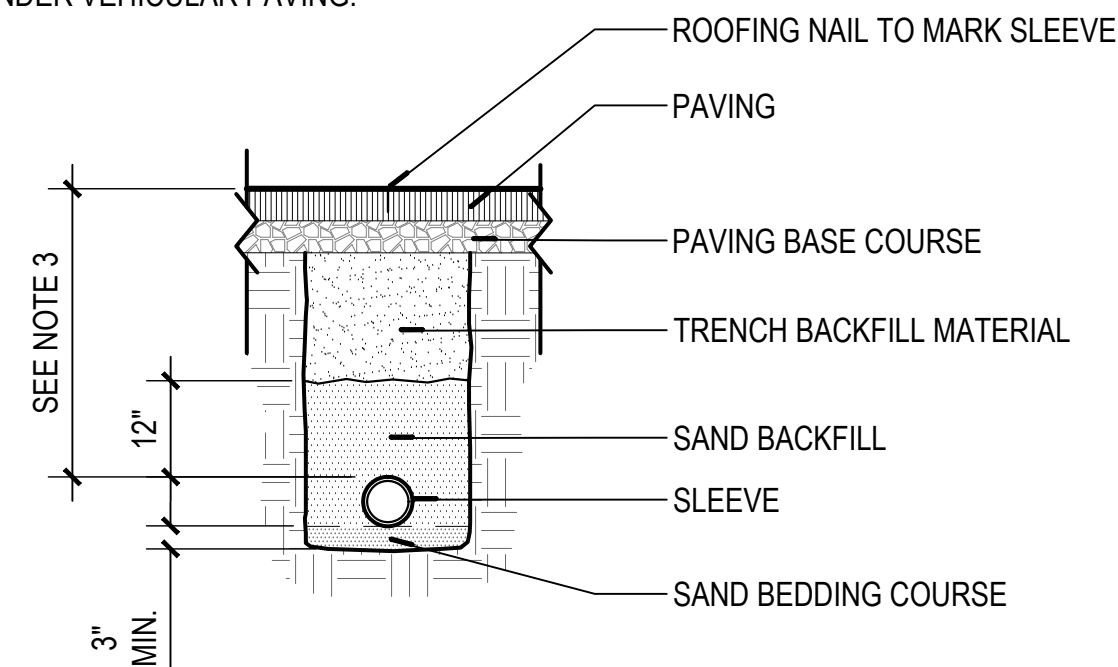
4  
USL-08



**BACKFLOW PREVENTION ASSEMBLY**  
NTS

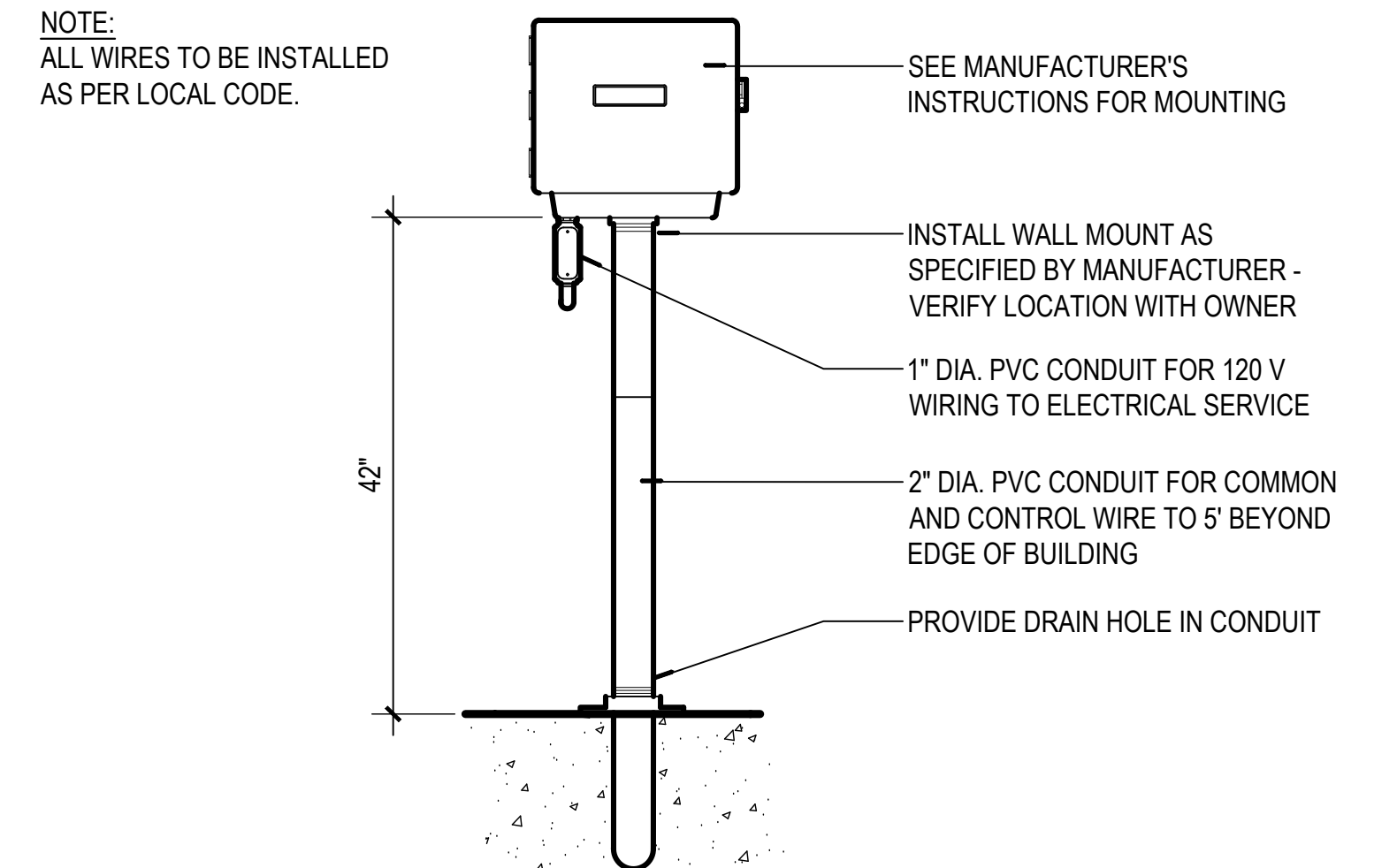
2  
USL-08

NOTES:  
1. EXTEND IRRIGATION SLEEVES 24" BEYOND EACH SIDE OF PAVING.  
2. SLEEVE PIPE DIAMETER TO BE A MINIMUM OF TWO TIMES PIPE DIAMETER(S) IT CONTAINS.  
3. 24" MINIMUM DEPTH UNDER PEDESTRIAN WALKS; 36" MINIMUM DEPTH UNDER VEHICULAR PAVING.



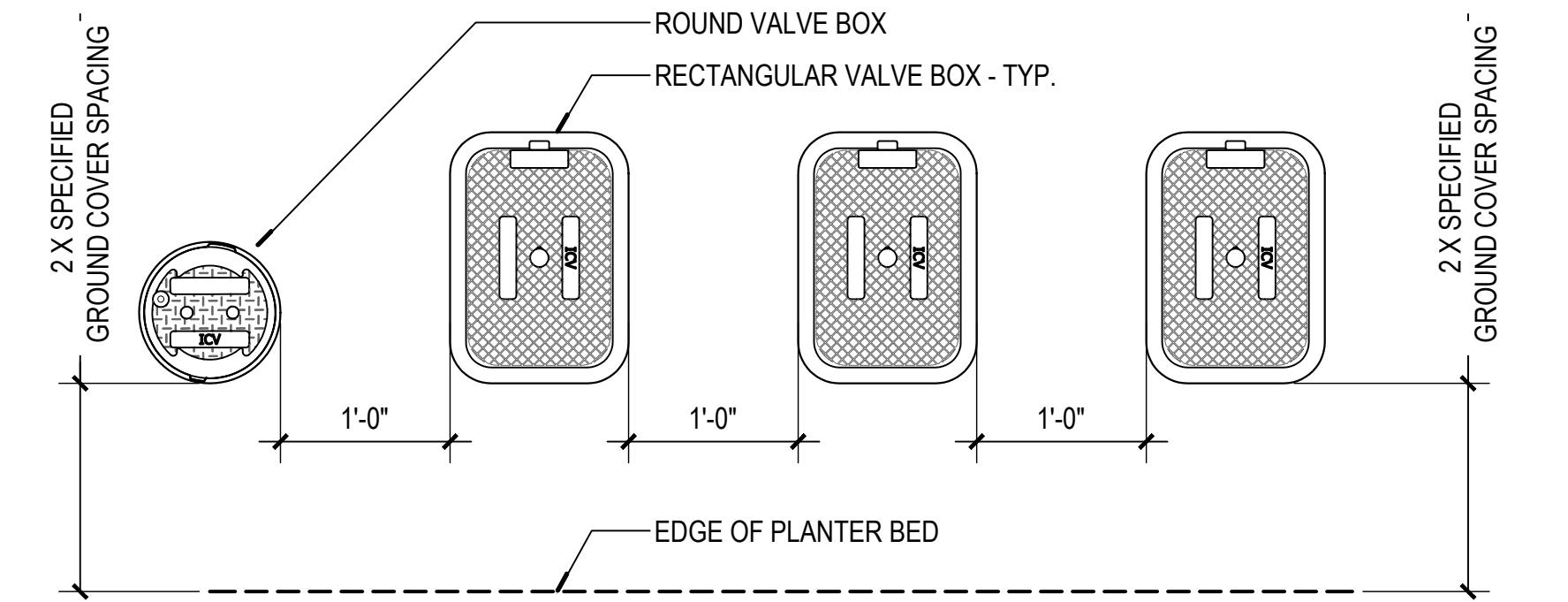
**TRENCHING UNDER PAVEMENT**  
NTS

5  
USL-08



**CONTROLLER - WALL MOUNT**  
NTS

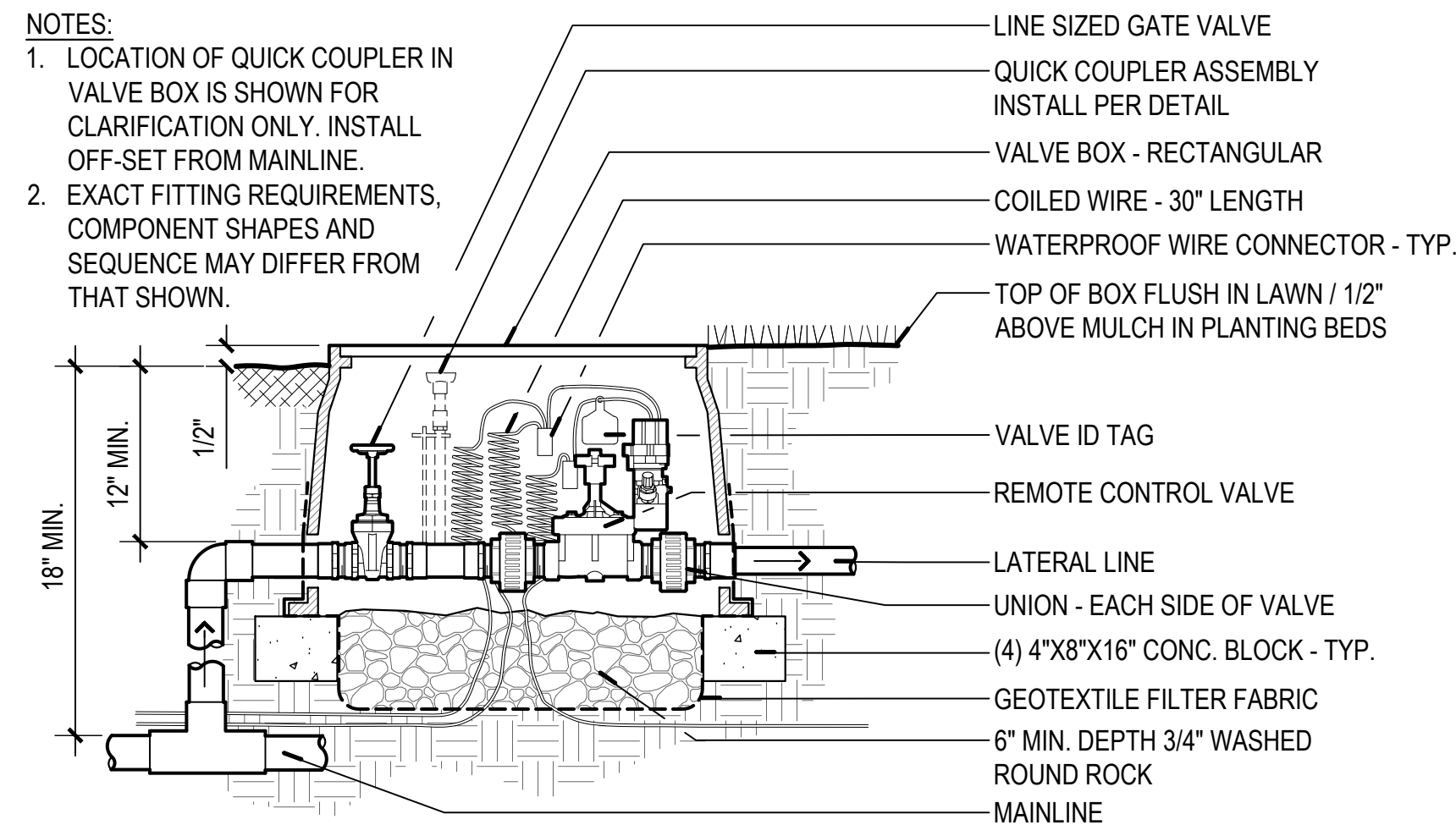
3  
USL-08



NOTES:  
1. VALVE BOX LID COLOR SHALL BE PER IRRIGATION SPECIFICATIONS.  
2. VALVE BOXES TO BE INSTALLED TO ALLOW FOR ORDERLY ARRANGEMENT.  
3. LOCATION OF VALVE ASSEMBLIES SHALL BE STAKED FOR APPROVAL BY OWNER'S REPRESENTATIVE.  
4. CENTER VALVE BOXES OVER VALVE ASSEMBLIES.  
5. SET VALVE BOXES WITH TOPS AT EQUAL ELEVATIONS UNLESS STATED OTHERWISE.

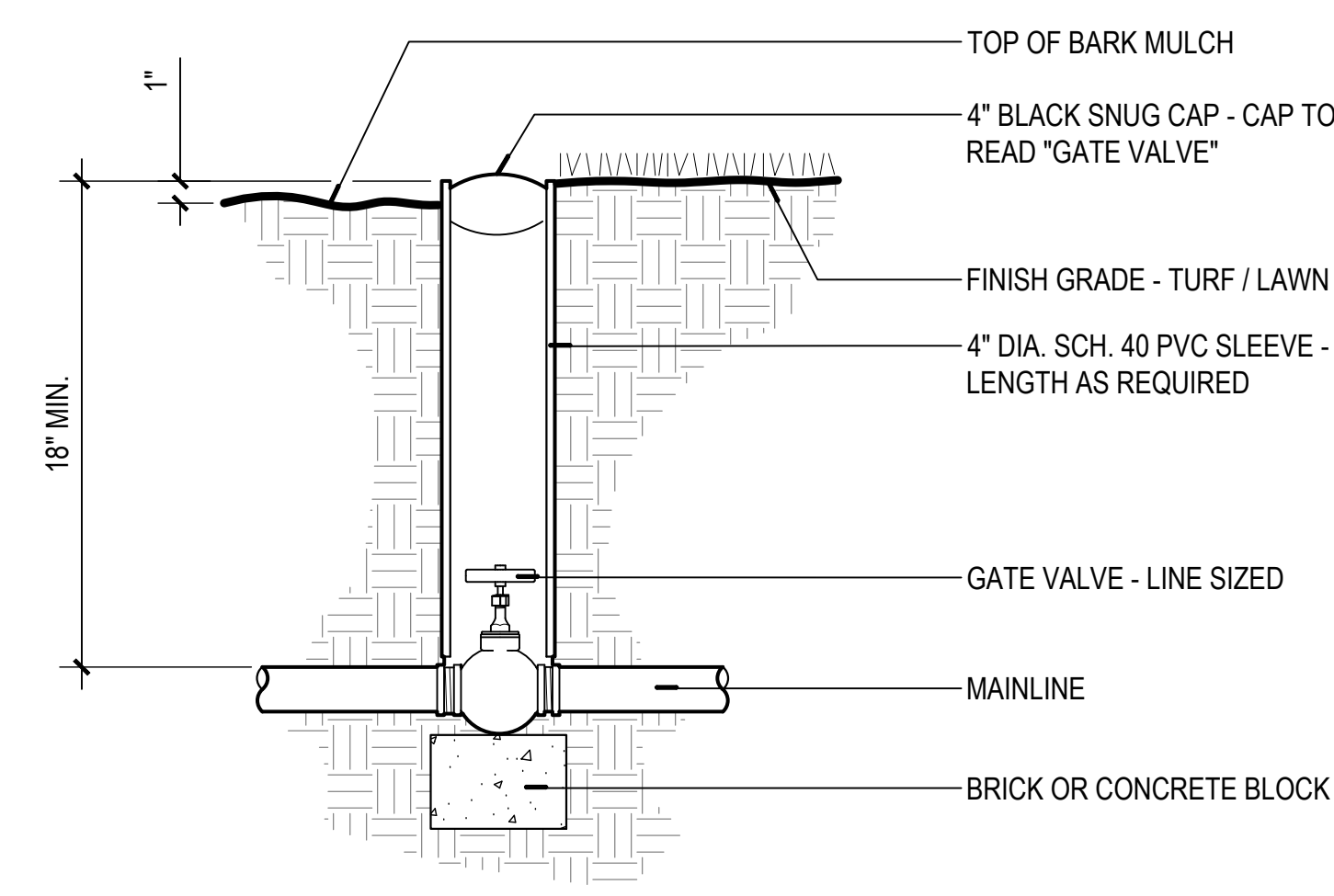
**VALVE BOX LAYOUT**  
NTS

6  
USL-08



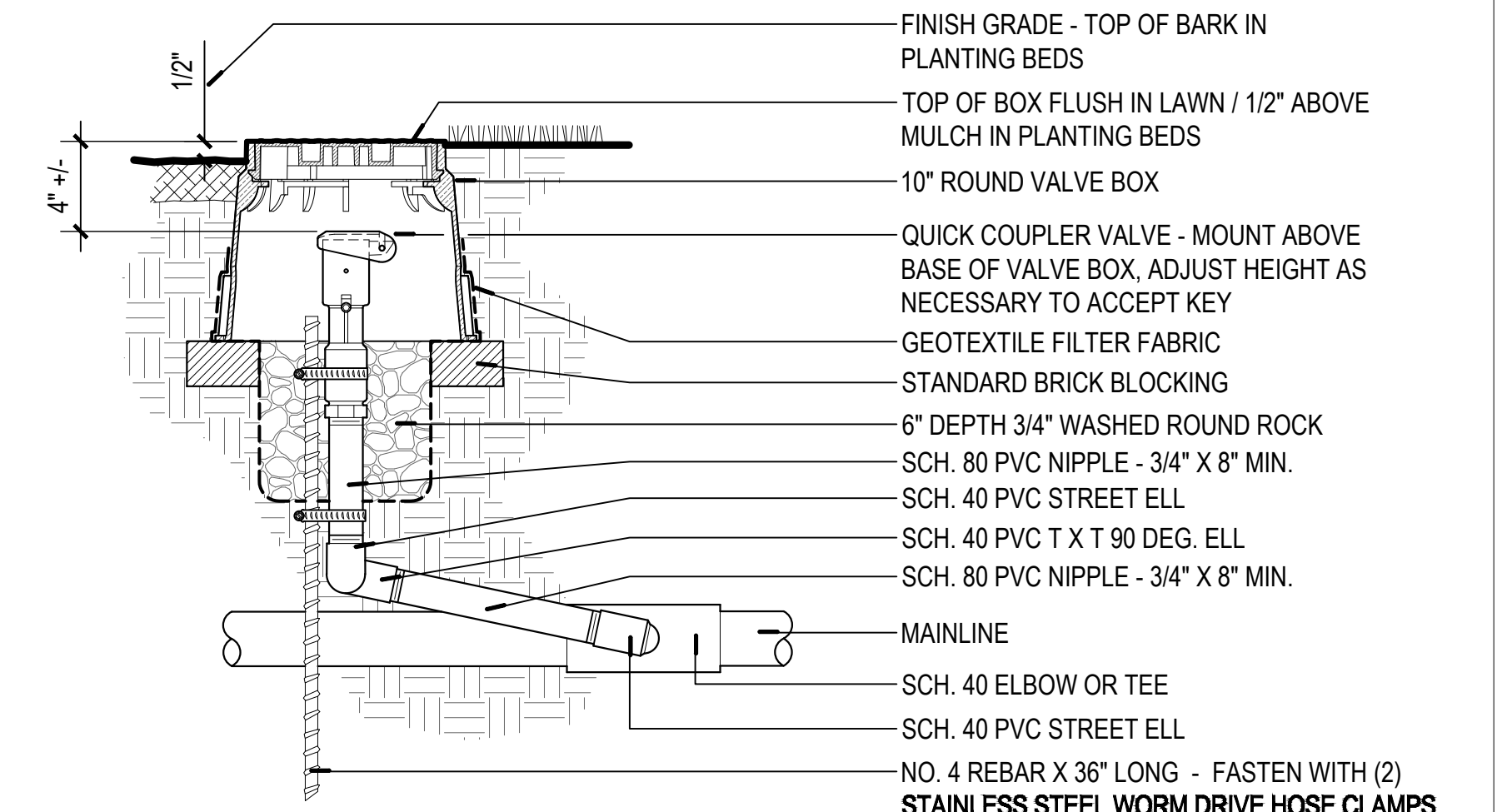
**REMOTE CONTROL VALVE**  
NTS

7  
USL-08



**GATE VALVE ASSEMBLY**  
NTS

8  
USL-08



**QUICK COUPLER ASSEMBLY**  
NTS

9  
USL-08

PRELIMINARY, SUBJECT TO CHANGE  
LAND USE PERMIT (NOT FOR CONSTRUCTION)

DSGN	B.DEAN								
DR	B.DEAN								
CHK	D.WALTERS								
APVD	M.FAHA	NO.	DATE	REVISION	BY	APVD			

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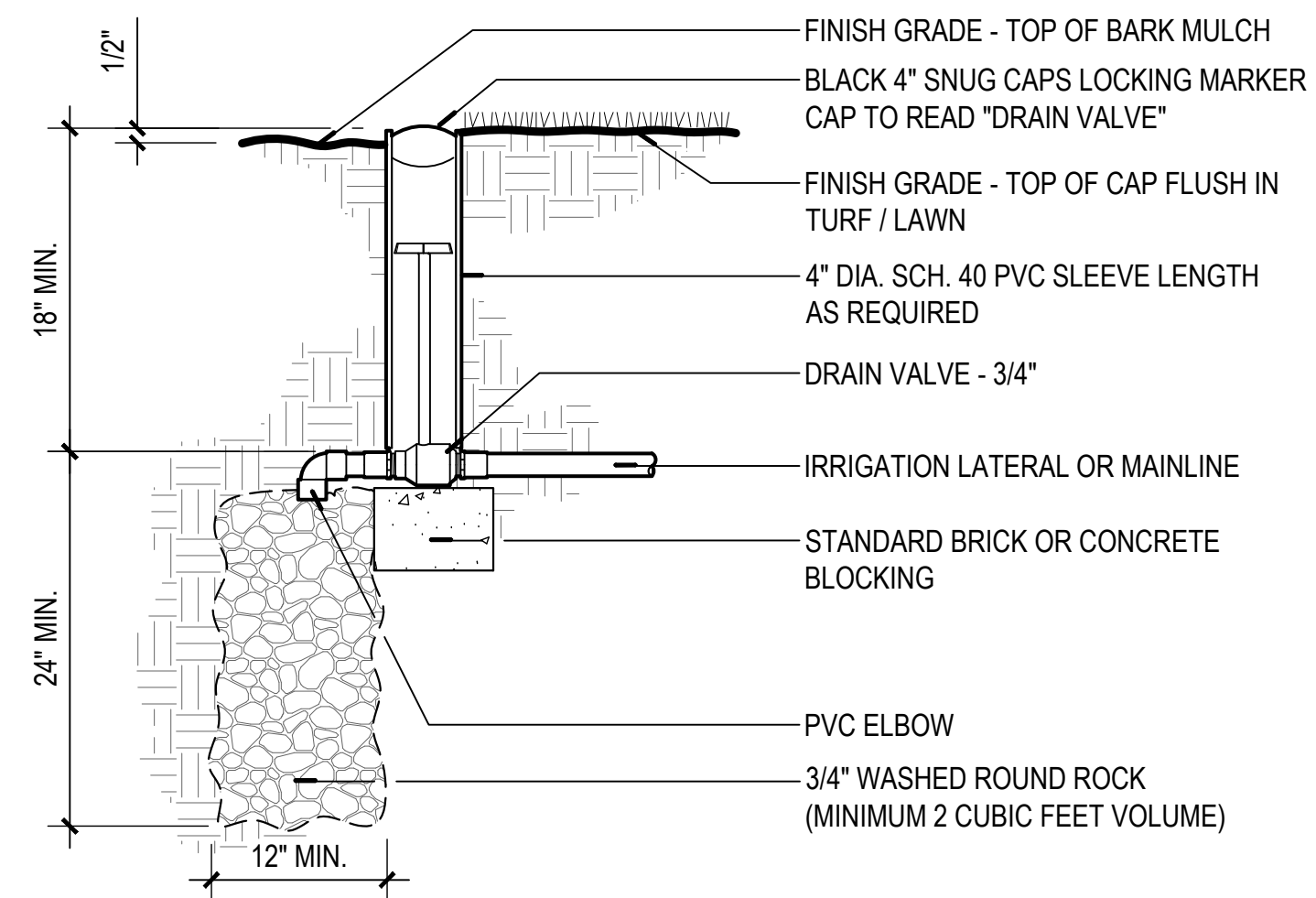
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WILLAMETTE WATER SUPPLY PROGRAM  
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LAND USE PERMIT  
IRRIGATION  
DETAILS 1

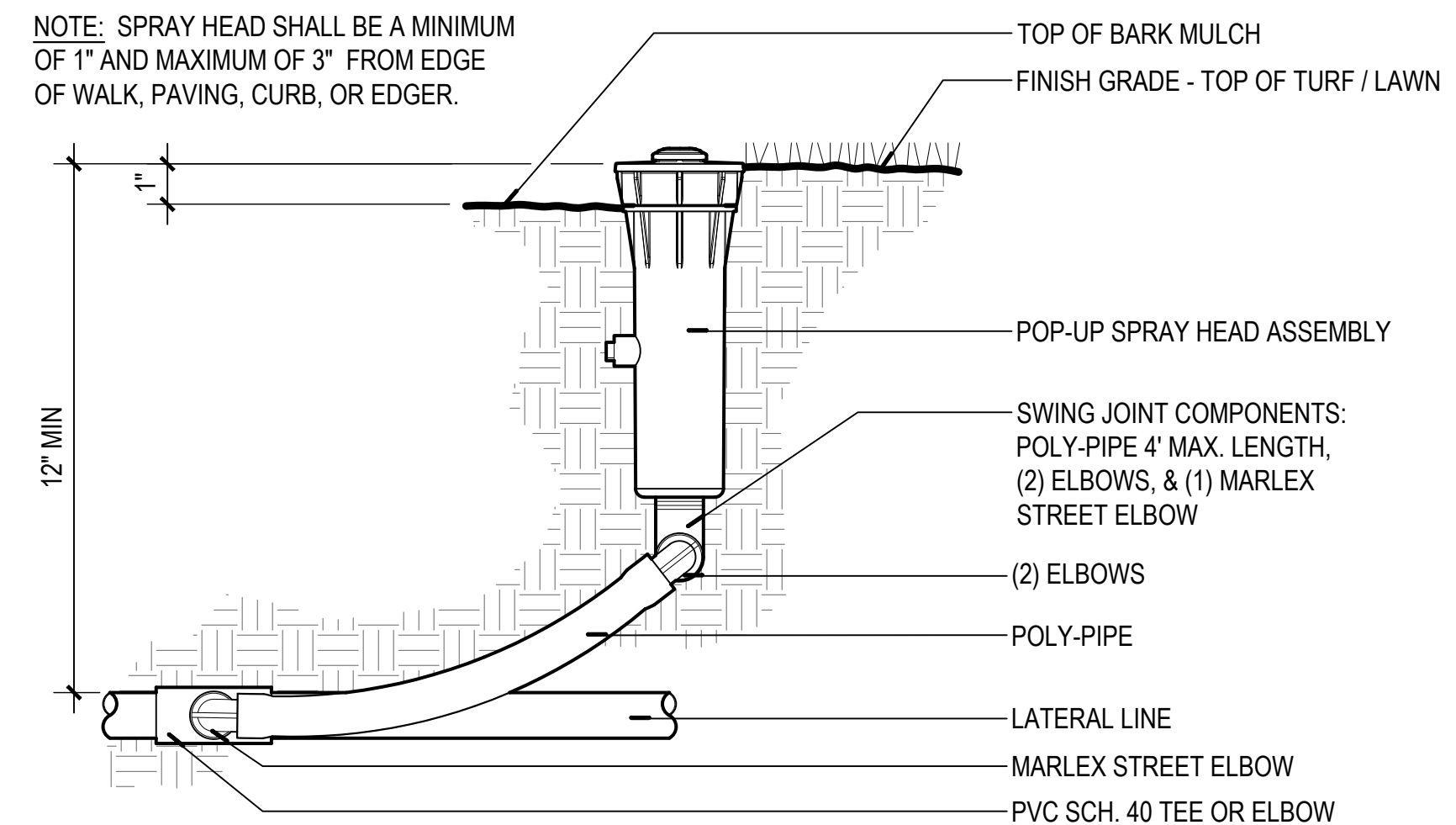
SHEET 43  
DWG USL-09  
DATE 07/12/19  
PROJ 196999





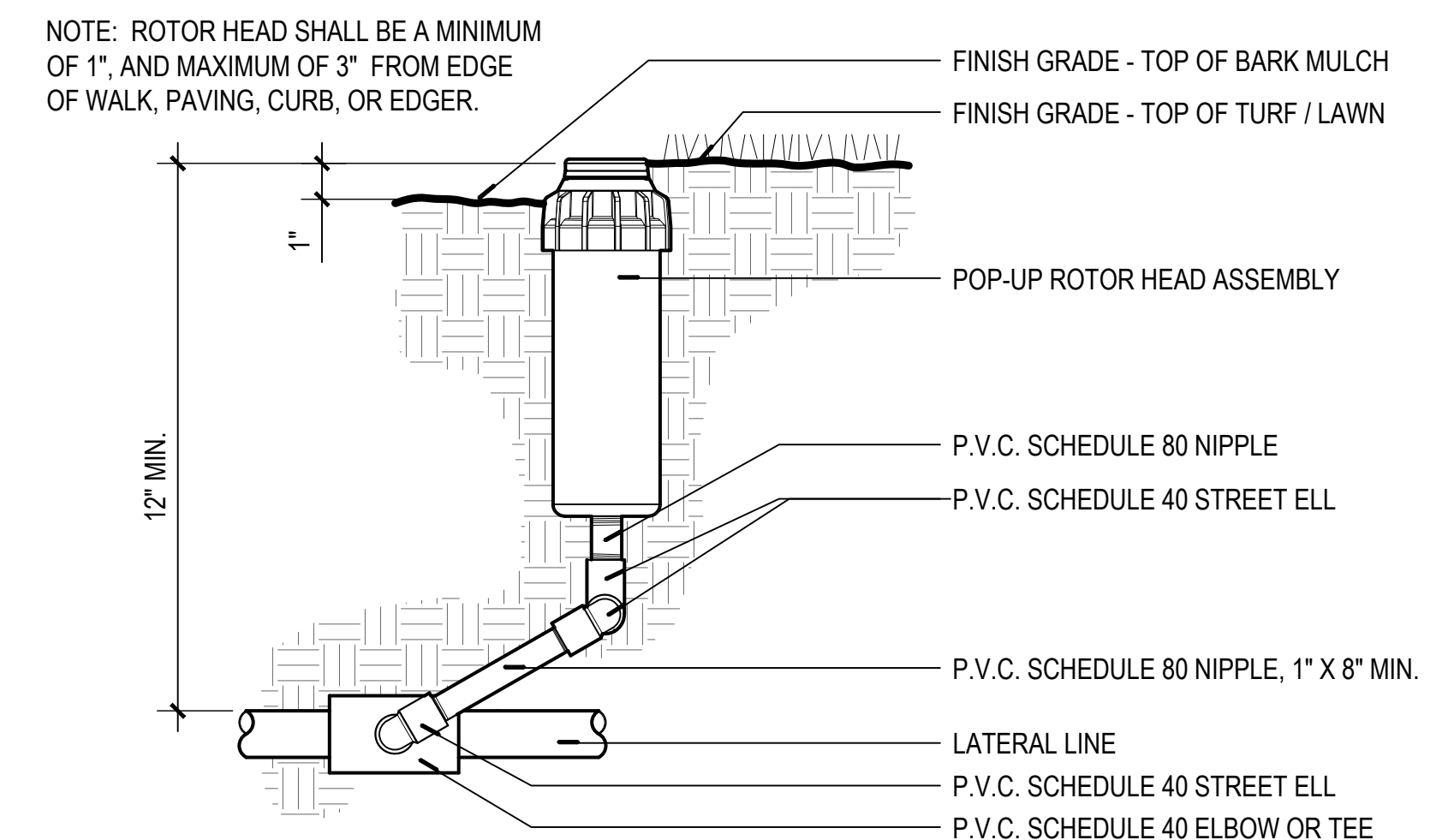
**MANUAL DRAIN VALVE ASSEMBLY**  
NOT TO SCALE

1  
USL-08



**SPRAY HEAD - POLY SWING PIPE ASSEMBLY**  
NOT TO SCALE

2  
USL-08



**ROTOR HEAD - PVC SWING JOINT ASSEMBLY**  
NOT TO SCALE

3  
USL-08

PRELIMINARY, SUBJECT TO CHANGE  
LAND USE PERMIT (NOT FOR CONSTRUCTION)

DSGN	B.DEAN								
DR	B.DEAN								
CHK	D.WALTERS								
APVD	M.FAHA	NO.	DATE	REVISION	BY	APVD			

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LAND USE PERMIT  
IRRIGATION  
DETAILS 2

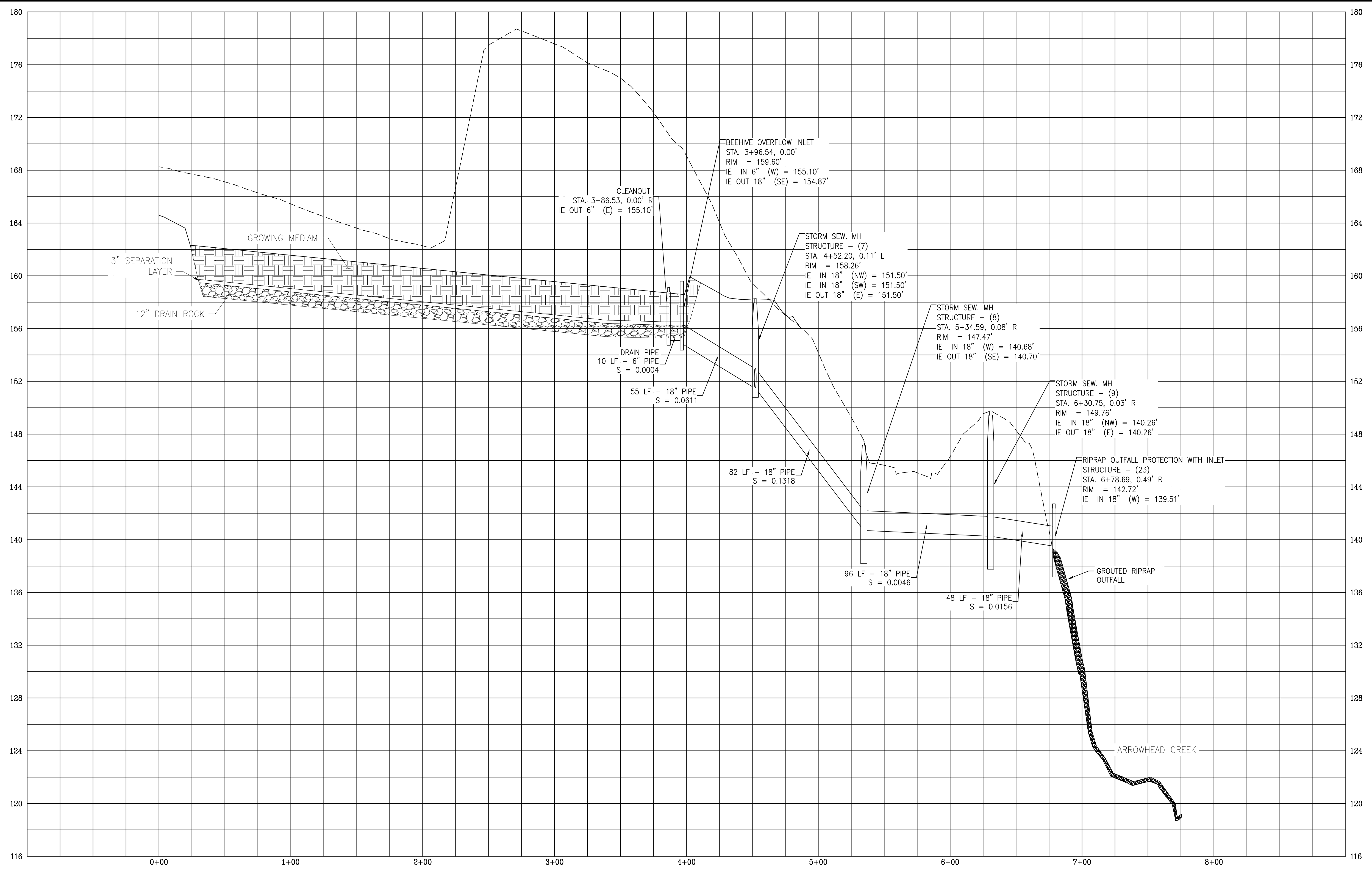
SHEET	44
DWG	USL-10
DATE	07/12/19
PROJ	196999







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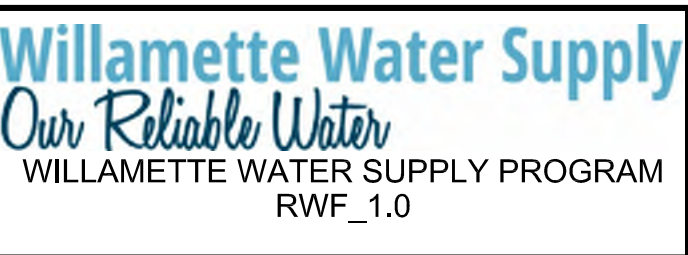


SD 1 ALIGN PROFILE: -1+00-9+00  
 Horiz. Scale: 1"=40'  
 Vert. Scale: 1"=4'

1 PROFILE

DSGN	NO.	DATE	REVISION	BY	APVD
DR	AMC				
CHK	AMC				
APVD	AMC				

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PRELIMINARY, SUBJECT TO CHANGE  
 LAND USE PERMIT (NOT FOR CONSTRUCTION)

LAND USE PERMIT  
 STORMWATER PROFILE  
 UPPER SITE

SHEET	46
DWG	ECC-05
DATE	07/12/19
PROJ	196999







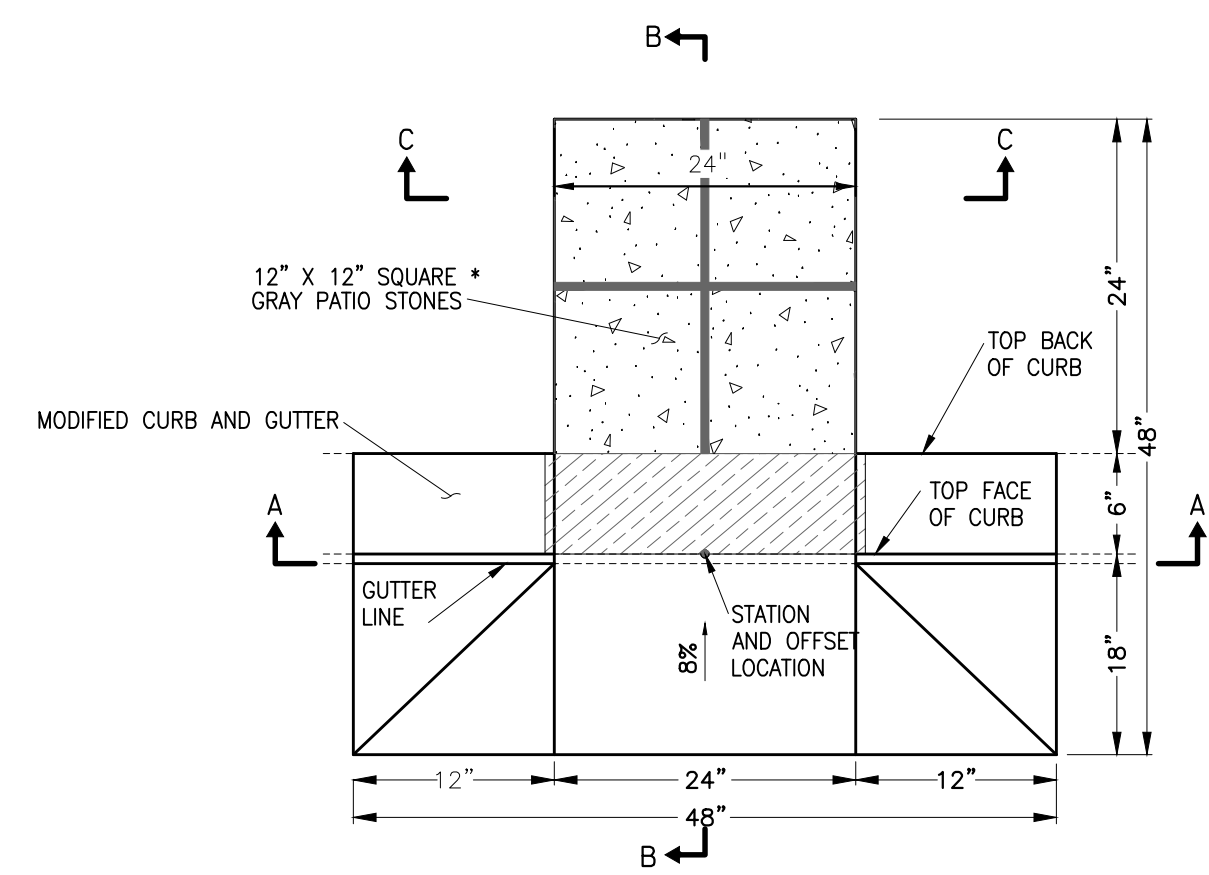




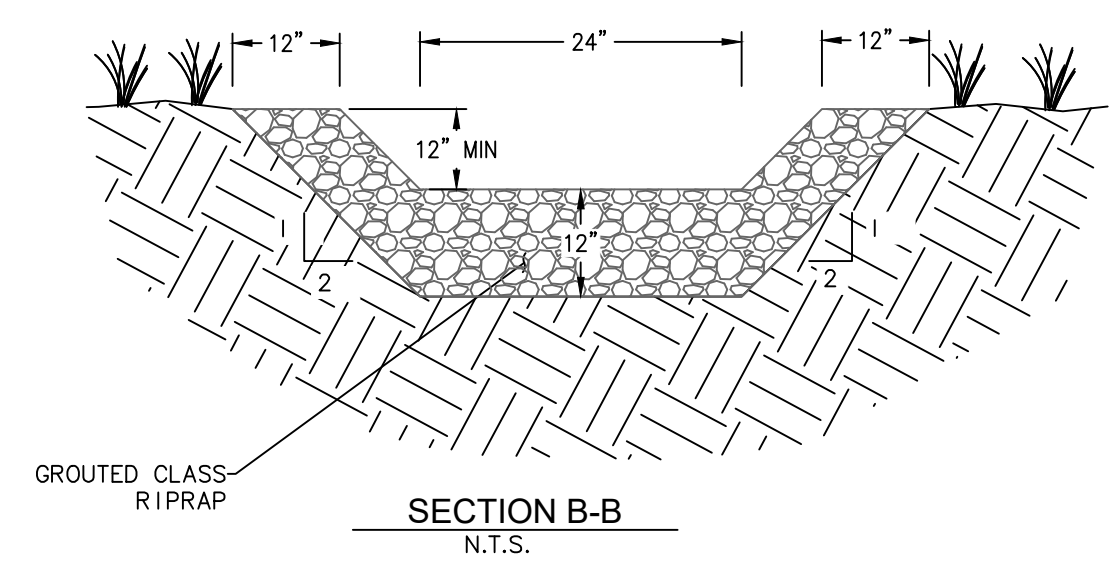
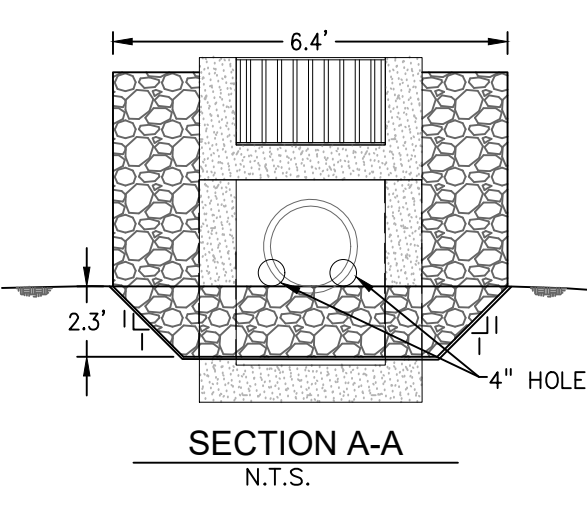
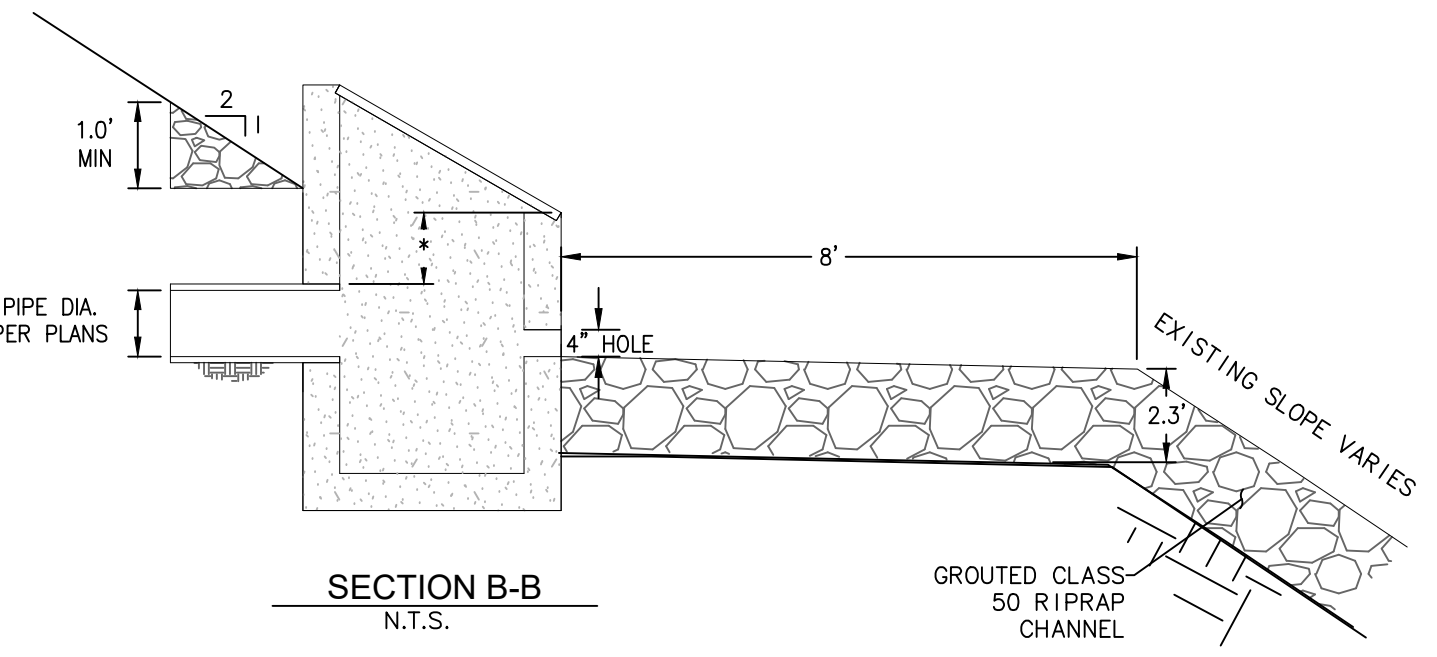
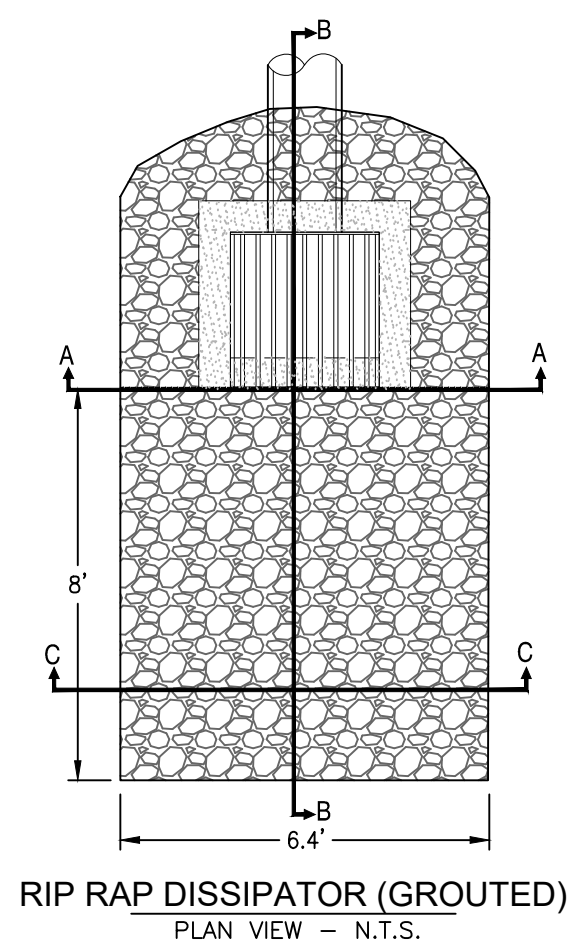
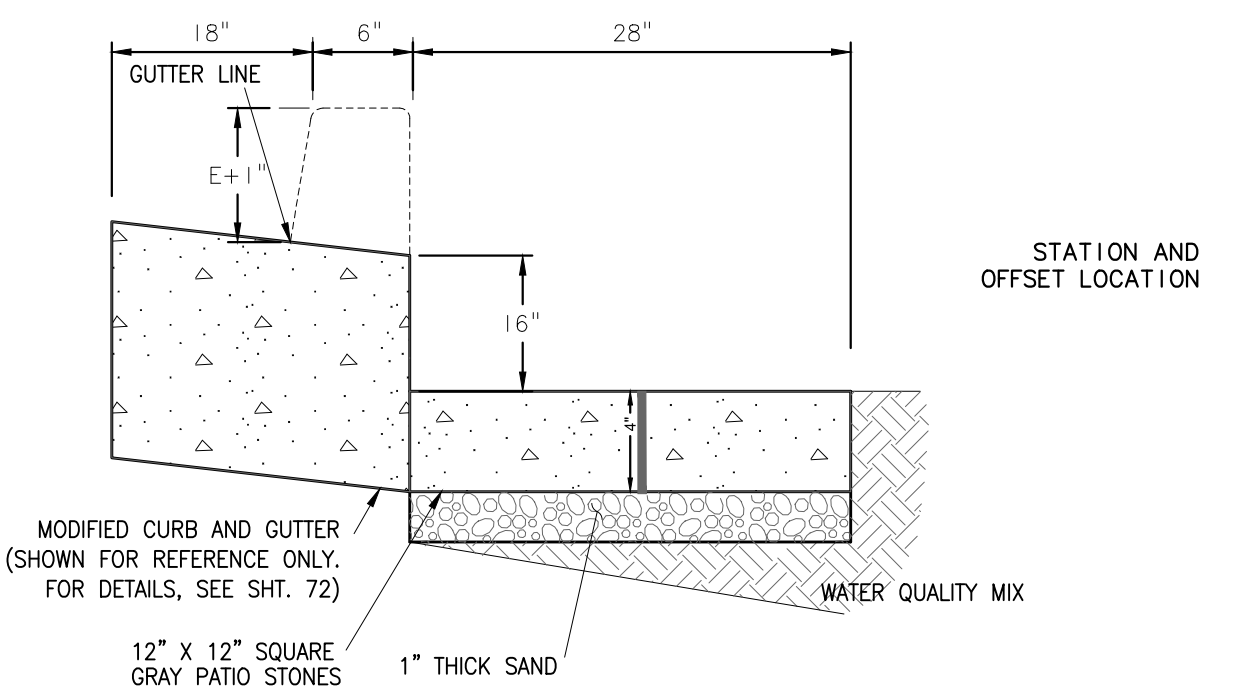
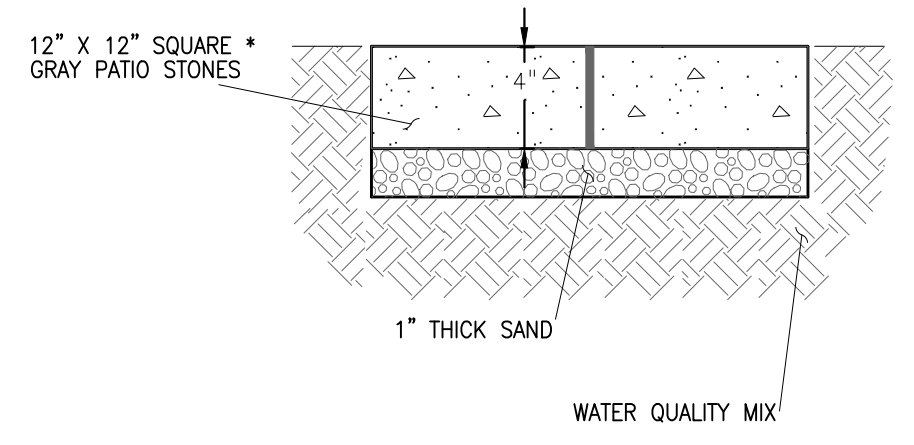
BY: LEAH BENSCHING

PLOT DATE: Wednesday, October 03, 2018

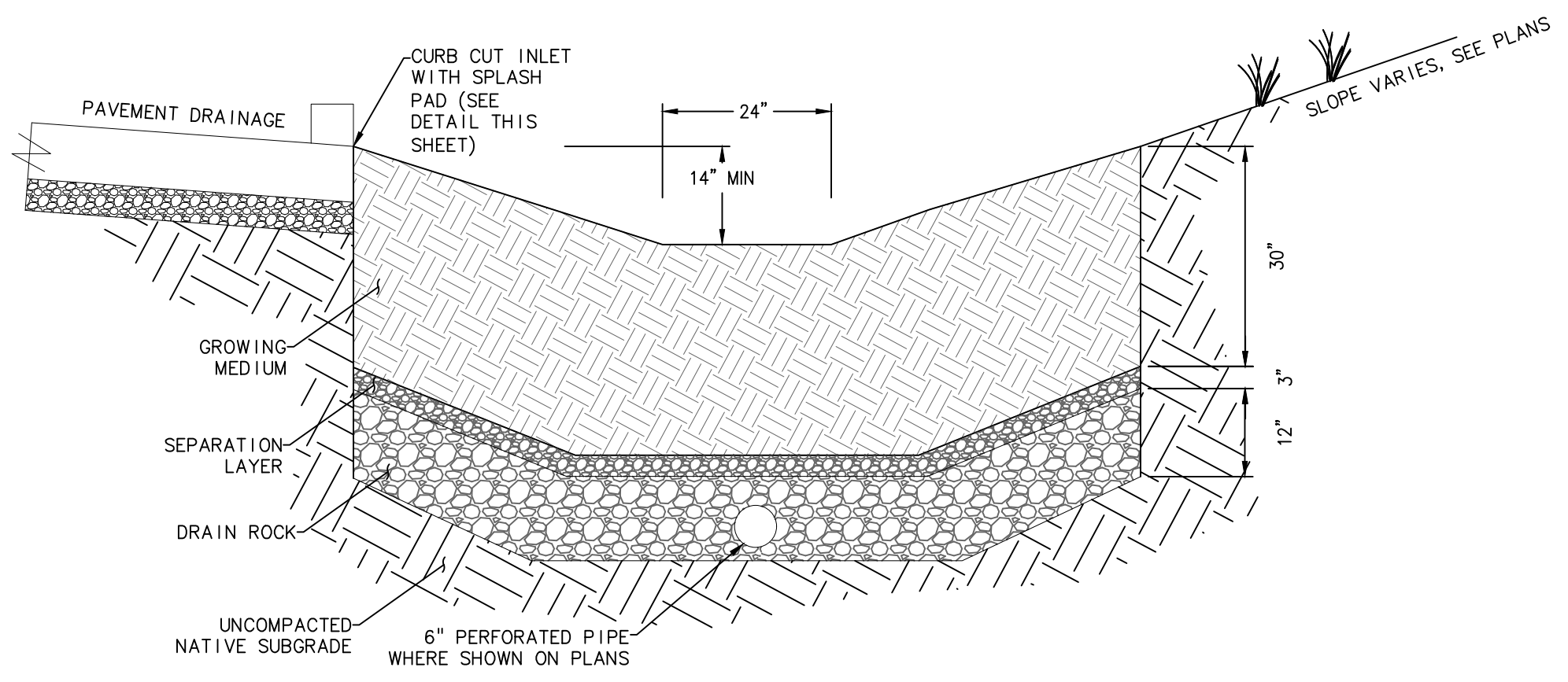
DWG FILE: L:\Project\1840018439\CADD\ACADD\DWG\UPPER SITE POWER BUILDING\RWF\_01 ECC\_06\_07.dwg



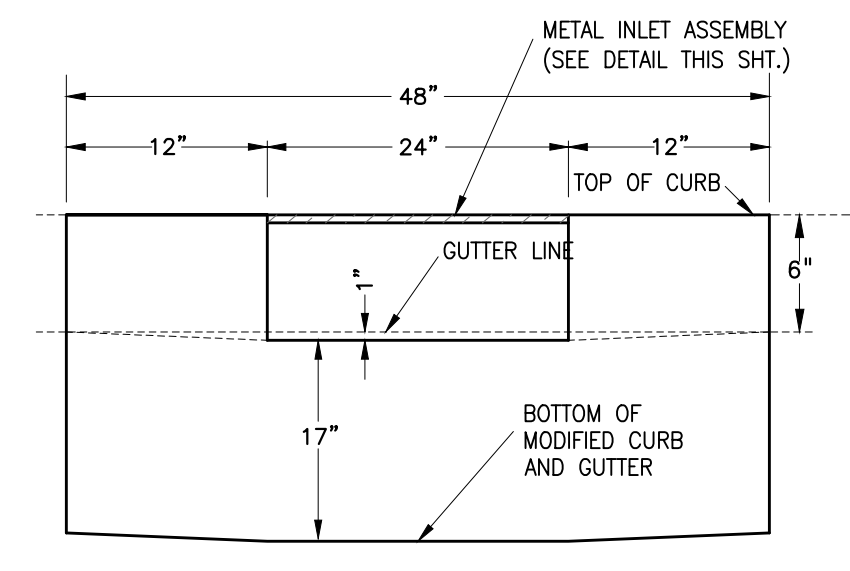
\* EACH PATIO STONE SPLASH PAD SHALL BE FOUR (4) 12" X 12" GRAY PATIO STONES ARRANGED IN A 2' X 2' SQUARE.



**RIP RAP OUTFALL PROTECTION WITH INLET**  
N.T.S.



**MODIFIED SWALE SECTION**  
N.T.S.



**CURB CUT INLET WITH SPLASH PAD**  
N.T.S.

DSGN					
DR	####				
CHK	####				
APVD	####				
	NO.	DATE	REVISION	BY	APVD

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PRELIMINARY, SUBJECT TO CHANGE  
**LAND USE PERMIT (NOT FOR CONSTRUCTION)**

LAND USE PERMIT  
**STORMWATER DETAILS 2**

SHEET	49
DWG	ECC-08
DATE	07/12/19
PROJ	196999

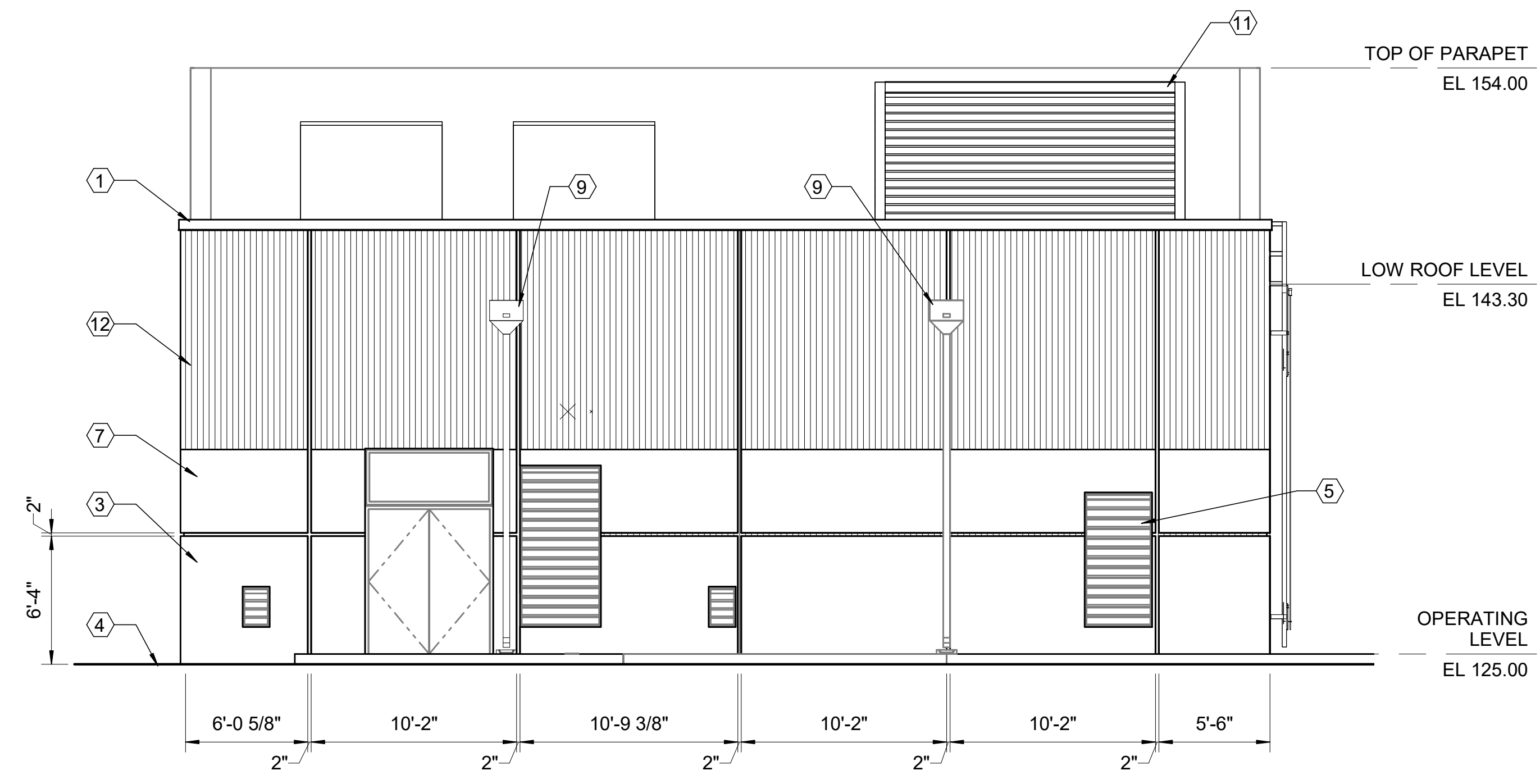


**GENERAL SHEET NOTES**

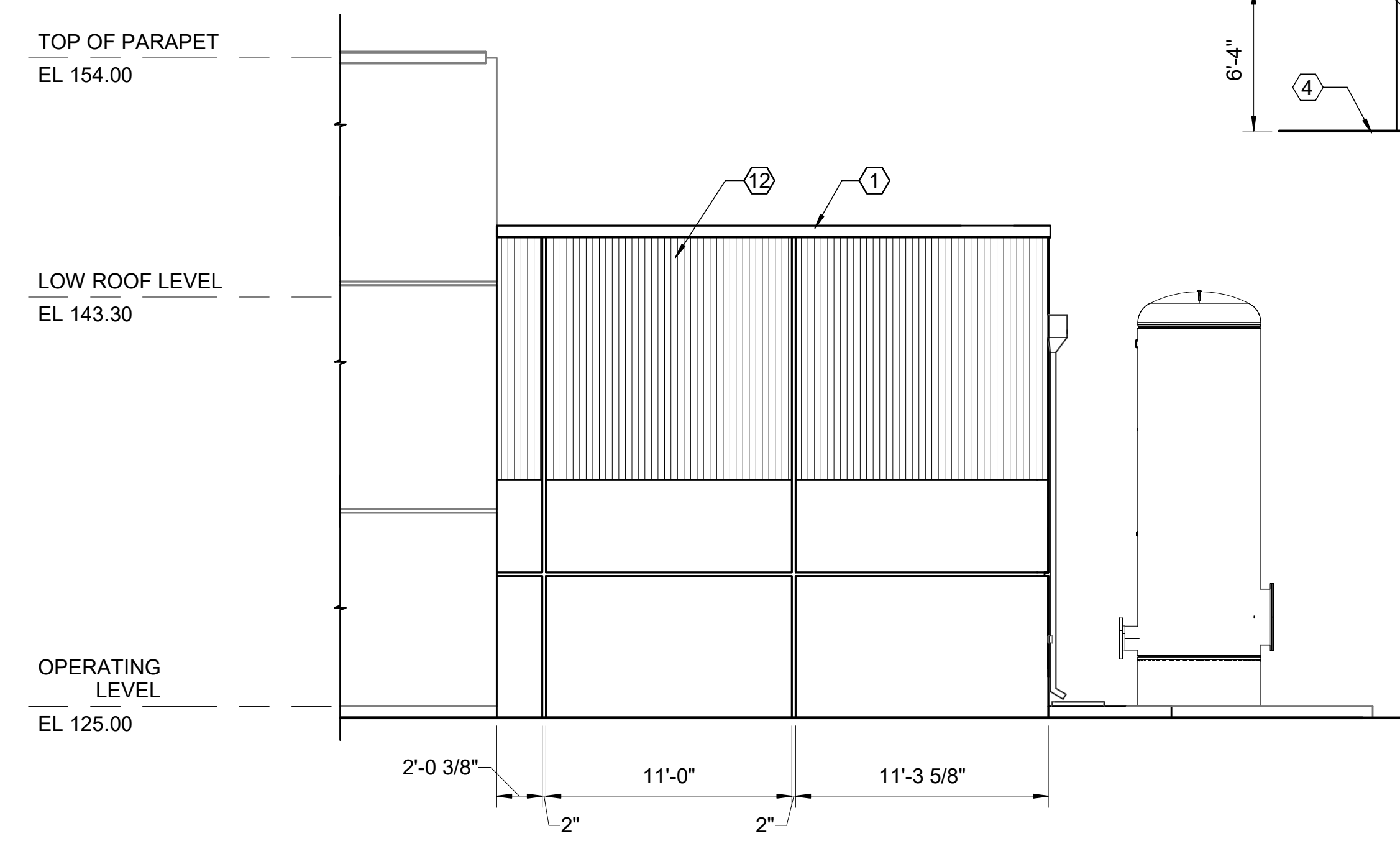
1. NEW CAST-IN-PLACE CONCRETE SHALL HAVE FORM LINER AND REVEALS MATCHING EXISTING NORTH AND WEST BUILDING FACADES.

**SHEET KEYNOTES**

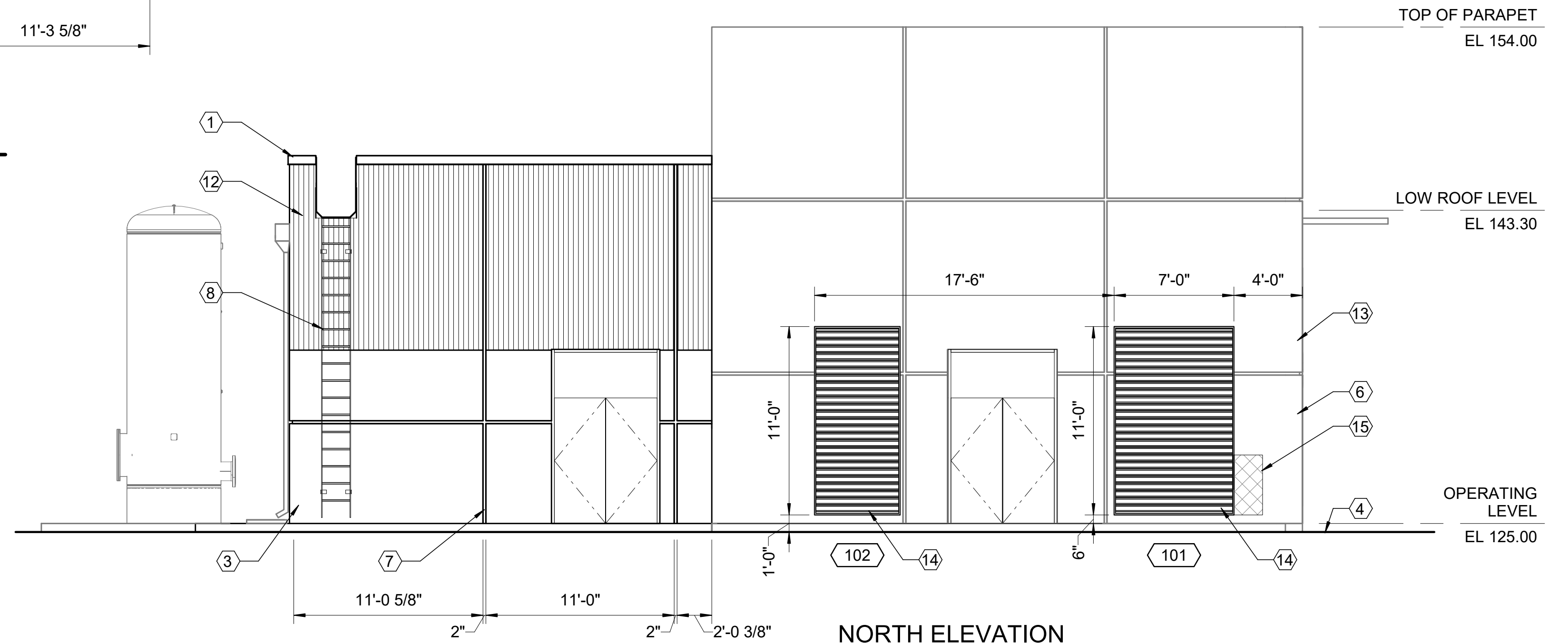
1. PREFINISHED METAL COPING.
2. NOT USED.
3. CAST-IN-PLACE CONCRETE WITH SMOOTH FORM LINER TO MATCH EXISTING.
4. FINISH GRADE, SEE CIVIL DRAWINGS.
5. EXISTING LOUVER, TYP. EAST FACADE.
6. EXISTING CAST-IN-PLACE CONCRETE WITH SMOOTH FORM LINER.
7. PANEL ACCENT REVEAL, TYP.
8. NEW ROOF ACCESS LADDER.
9. NEW SCUPPER AND DOWNSPOUT (WITH SPLASHBLOCK) TO MATCH EXISTING.
10. NEW LOUVER INSTALLED IN PLACE OF EXISTING TRANSOM.
11. NEW LOUVER PENTHOUSE, BEYOND. SEE SPECIFICATION SECTION 08 90 00.
12. CAST-IN-PLACE CONCRETE WITH VERTICAL FORMLINER TO MATCH EXISTING.
13. EXISTING CAST-IN-PLACE CONCRETE WITH VERTICAL FORM LINER.
14. NEW LOUVER IN NEW WALL OPENING, SEE DEMOLITION AND STRUCTURAL DRAWINGS.
15. INFILL DEMOLISHED LOUVER OPENING WITH CONCRETE, FINISH TO MATCH EXISTING SMOOTH FORM LINER.



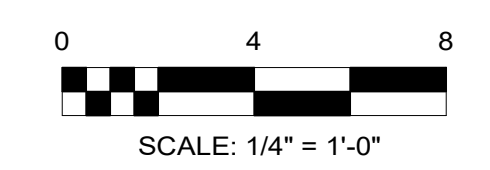
**EAST ELEVATION**  
SCALE: 3/16" = 1'-0"



**SOUTH ELEVATION**  
SCALE: 3/16" = 1'-0"



**NORTH ELEVATION**  
SCALE: 3/16" = 1'-0"



DSGN	P. RISHL						
DR	D. DENNEY, S. HICKMAN						
CHK	D. TRUPKA						
APVD	J. MCMULLEN	NO.	DATE	REVISION	BY	APVD	

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0 1"  
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**Black & Veatch Architects, PLLC**  
Registered and Authorized to Practice Architecture in the State of Oregon  
8400 Ward Parkway  
Kansas City, Missouri 64114



**Willamette Water Supply**  
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WILLAMETTE WATER SUPPLY PROGRAM  
RWF\_1.0

**90% DESIGN (NOT FOR CONSTRUCTION)**

ARCHITECTURAL  
**RAW WATER PUMP STATION BUILDING ELEVATIONS**

SHEET	50
DWG	PSA-02
DATE	10/30/19
PROJ	196999