

WELL SITE 2, WATER SYSTEM IMPROVEMENTS

CITY OF ROY, WASHINGTON

SEC. 03 , T. 17N, R. 2, W.M.

April 2026



VICINITY MAP
NOT TO SCALE



THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALL THE UNDERGROUND LOCATE LINE AT PHONE NUMBER : 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR MAINTAINING ALL LOCATED MARKS ONCE THE UTILITIES HAVE BEEN LOCATED.



5016 Lacey Boulevard SE, Lacey, Washington 98503
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BID SET

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2	G2	LEGEND & ABBREVIATIONS
3	G3	GENERAL NOTES
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ENGINEER:
SKILLINGS INC.
5016 LACEY BLVD. SE
LACEY, WA 98503
(360)491-3399

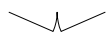
ROBIN NELSON, P.E.

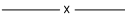
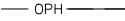
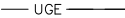
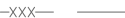
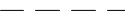
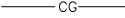
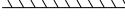
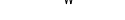
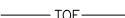
CLIENT:
CITY OF ROY
216 MCNAUGHT RD S.
ROY, WA 98580

ROYCITYHALL@CITYOFROYWA.US

RYAN MULLER
MAYOR

ABBREVIATIONS	
AVE.....	AVENUE
BLDG.....	BUILDING
CL.....	CENTERLINE
DEG(°).....	DEGREE
DI.....	DUCTILE IRON
DIAM.(ø).....	DIAMETER
DWG.....	DRAWING
EA.....	EACH
EL (ELEV)...	ELEVATION
ETC.....	ETCETERA
FF.....	FINISHED FLOOR
FL.....	FLANGED JOINT
FT(°).....	FOOT
GAL.....	GALLON
HMA.....	HOT MIX ASPHALT
HP.....	HORSE POWER
IE.....	INVERT ELEVATION
IN(°).....	INCH
LB(S).(°)...	POUND(S)
LF.....	LINEAR FOOT
MAX.....	MAXIMUM
MFR.....	MANUFACTURER
MIN.....	MINIMUM
MJ.....	MECHANICAL JOINT
MM.....	MILLIMETER
No.....	NUMBER
NTS.....	NOT TO SCALE
OC.....	ON CENTER
PE.....	CORRUGATED POLYETHYLENE
PSF.....	POUNDS PER SQUARE FOOT
R.....	RADIUS
REF.....	REFERENCE
RJ.....	IRON FLEX JOINT
SF (SQ FT)	SQUARE FEET
ST.....	STREET
STD.....	STANDARD
T&B.....	TOP AND BOTTOM
THK.....	THICK
T.O.	TOP OF
TYP.....	TYPICAL
U.N.O.	UNLESS OTHERWISE NOTED
W/.....	WITH

SURVEY CONTROL SYMBOLS	
	5/8" REBAR W/ CAP
	BRASS DISK
	HUB & TACK
	MAGNAIL W/ FLASHER
SYMBOLS	
EXISTING	
	AIR RELEASE VALVE
	CATCH BASIN (TYPE 1)
	CONIFER TREE
	DECIDUOUS TREE
	POLE ANCHOR
	POST INDICATOR VALVE
	POWER POLE
	POWER POLE W/ DROP
	TELEPHONE PEDESTAL
	WATER METER
	WATER VALVE
	20 FT DOUBLE CHAIN LINK FENCE
NEW	
	THRUST BLOCK

LINE TYPES	
EXISTING	
	BARBWIRE FENCE
	CHAIN LINK FENCE
	SPLIT RAIL FENCE
	PHONE (OVERHEAD)
	POWER (UNDERGROUND)
	RIGHT OF WAY
	ROAD CENTERLINE
	BUILDING
	GRAVEL EDGE
	LOT LINE
	EXISTING WATER LINE
	MAJOR CONTOURS
	MINOR CONTOURS
	100' SANITARY CONTROL AREA
NEW	
	CLEARING AND GRUBBING LIMIT
	BUILDING
	WATER LINE
	MAJOR CONTOURS
	MINOR CONTOURS
	SILT FENCE
	TOP OF POND
	TOE OF POND

HATCHES	
EXISTING	
	CONCRETE
	GRAVEL
	EXISTING GROUND
NEW	
	CONCRETE
	CONSTRUCTION ENTRANCE
	QUARRY SPALL
	SAND

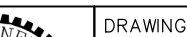
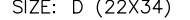
1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR MUNICIPAL PUBLIC WORKS CONSTRUCTION PREPARED BY WASHINGTON STATE CHAPTER, AMERICAN PUBLIC WORKS ASSOCIATION (APWA), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION 2026, SPECIFICATIONS, AND ANY CONDITIONS OF APPROVAL.
2. ALL CONSTRUCTION IS SUBJECT TO INSPECTION BY THE OWNER. THE CONTRACTOR SHALL NOTIFY THE OWNER OF THEIR SCHEDULE IN SUFFICIENT TIME TO PERMIT INSPECTION PRIOR TO AND DURING WORK. 24 HOURS NOTIFICATION IS REQUIRED FOR ALL INSPECTIONS.
3. THE CONTRACTOR IS FULLY RESPONSIBLE FOR MEETING THE CONDITIONS OF PROJECT PERMITS, AND LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
4. BEFORE ISSUANCE OF PERMITS, CONSTRUCTION OR ANY DEVELOPMENT ACTIVITY, A PRECONSTRUCTION MEETING IS REQUIRED BETWEEN THE OWNER'S INSPECTOR, CONTRACTOR, AND ENGINEER.
5. THE CONTRACTOR SHALL LIMIT THE AREA OF CLEARING TO ONLY THAT WHICH IS NECESSARY TO COMPLETE THE REQUIRED WORK. ALL DISTURBED AREAS SHALL BE GRADED TO MATCH THE EXISTING GROUND AND RESTORED WITH HYDROSEEDING.
6. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES PER WASHINGTON STATE SURFACE WATER MANAGEMENT MANUAL.
7. THE LOCATION OF UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. UTILITIES SHOWN HERE ARE FOR THE PURPOSE OF ASSISTING THE CONTRACTOR IN LOCATING SAID UTILITIES. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITIES LOCATION CENTER (811) 48 HOURS MINIMUM PRIOR TO THE BEGINNING OF CONSTRUCTION AND OBTAIN ON-SITE UTILITY LOCATIONS. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED PRIOR TO PROCEEDING WITH CONSTRUCTION.
8. CONSTRUCTION NOISE SHALL BE LIMITED AS PER CITY OF ROY MUNICIPAL CODE FROM 7:00AM TO 7:00PM ON WEEKDAYS, 9:00AM TO 7:00PM ON WEEKENDS AND FEDERAL, STATE, OR COUNTY OBSERVED HOLIDAYS UNLESS PERMITTED AND APPROVED BY THE CITY OF ROY OR PUBLIC WORKS DIRECTOR.
9. IN ALL CLEARING AND GRUBBING AREAS, CONTRACTOR SHALL STRIP NATIVE MATERIAL TO A DEPTH OF 1 FOOT OF MATERIAL AND MIX FOR LATER USE OR HAUL.
10. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES.
11. THE EXISTING FENCE ENCLOSES A SECURE FACILITY. THE EXISTING FENCE SHALL NOT BE REMOVED.

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST CURRENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (WSDOT/APWA).
2. TEMPORARY EROSION/WATER POLLUTION PREVENTION MEASURES SHALL BE REQUIRED IN ACCORDANCE WITH THE DEPT. OF ECOLOGY'S CONSTRUCTION STORMWATER GENERAL PERMIT.

SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THIS DRAWING NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE APPLICANT/CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES AS NECESSARY TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
3. CALL THE UNDERGROUND LOCATE LINE 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS.
4. ALL EROSION CONTROL AND STORMWATER FACILITIES SHALL BE REGULARLY INSPECTED AND MAINTAINED BY THE DESIGNATED CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCLE) DURING CONSTRUCTION.
5. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN STREET USE AND OTHER RELATED OR REQUIRED PERMITS PRIOR TO ANY CONSTRUCTION ACTIVITY IN THE MUNICIPALITY'S RIGHT-OF-WAY. IT SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL ABIDE BY ALL REQUIREMENTS FOR TRAFFIC CONTROL & SAFETY WHEN WORKING IN THE ROAD RIGHT-OF-WAY.
6. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN THE EVENT OF DISCOVERY OF POOR SOILS, STANDING GROUNDWATER, OR SEVERE DISCREPANCIES FROM SOIL LOG DESCRIPTIONS AS NOTED ON THE PLANS.

1. IN ADDITION TO THE DETAILS AND NOTES SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PERFORM ALL WORK IN COMPLIANCE WITH THE PERMIT AND OTHER APPLICABLE CITY OF ROY REQUIREMENTS. THE CONTRACTOR SHALL USE ADAPTIVE MANAGEMENT TO MEET ALL WATER QUALITY STANDARDS. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION STORMWATER DISCHARGES FROM THE SITE DO NOT EXCEED 25 NTU (NEPHELOMETRIC TURBIDITY UNIT).
2. THE EROSION AND SEDIMENT CONTROL (ESC) BEST MANAGEMENT PRACTICES (BMP) SHOWN ON THESE PLANS MUST BE INSTALLED IN CONJUNCTION WITH ALL CONSTRUCTION ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN RUNOFF WILL NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
3. THE BMPs SHOWN ON THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT, SEDIMENT-LADEN RUNOFF, AND OTHER CONSTRUCTION MATERIAL OR DEBRIS DO NOT LEAVE THE SITE.
4. THE BMPs SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AND REVISED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
5. THE CONTRACTOR SHALL PREVENT THE GENERATION OF DUST BY APPLYING WATER WITHOUT GENERATING ANY RUNOFF.
6. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL UPON PROJECT COMPLETION AND WHEN THE ENTIRE SITE IS PERMANENTLY STABILIZED.
7. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION
8. THE TESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEMS, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
9. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

1. ALL WORKMANSHIP AND MATERIAL WILL BE IN ACCORDANCE WITH THE CITY OF ROY ENGINEERING DESIGN AND DEVELOPMENT STANDARDS AND THE MOST CURRENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION; WASHINGTON STATE DEPARTMENT OF HEALTH (DOH) REGULATIONS; AND AMERICAN WATER WORKS ASSOCIATION STANDARDS.
2. A PRECONSTRUCTION MEETING WILL BE HELD WITH THE CITY PRIOR TO THE START OF CONSTRUCTION.
3. ALL LINES WILL BE CHLORINATED AND TESTED IN CONFORMANCE WITH THE ABOVE-REFERENCED SPECIFICATION (NOTE 1).
4. THE CONTRACTOR WILL PROVIDE TRAFFIC CONTROL PLAN(S) AS REQUIRED IN ACCORDANCE WITH THE CURRENT WSDOT SPECIFICATIONS AND MUTCD.
5. ALL WATER MAINS WILL BE STAKED FOR GRADES AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK. STAKING WILL BE MAINTAINED THROUGHOUT CONSTRUCTION.
6. CALL UNDERGROUND LOCATE AT 1-800-424-5555 A MINIMUM OF 2 BUSINESS DAYS BEFORE COMMENCING ANY EXCAVATION. UNDERGROUND UTILITY LOCATES WILL BE PERFORMED ONCE. IT IS THE RESPONSIBILITY OF THE REQUESTOR TO MAINTAIN THE MARKINGS AFTER THE INITIAL LOCATE IN ACCORDANCE WITH RCW 19.122.
7. THE CITY REQUIRES 10 WORKING DAYS WRITTEN NOTICE FOLLOWING APPLICATION AT THE PUBLIC WORKS DEPARTMENT TO SCHEDULE SHUTDOWNS. THE WRITTEN NOTICE WILL BE COORDINATED WITH THE CITY INSPECTOR. THE CITY OF ROY DRINKING WATER OPERATIONS OR CITY INSPECTOR WILL PERFORM THE SHUTDOWN.
8. AT ANY CONNECTION TO AN EXISTING LINE WHERE A NEW VALVE IS NOT INSTALLED, THE EXISTING VALVE MUST BE PRESSURE TESTED TO CITY STANDARDS BY THE CONTRACTOR PRIOR TO CONNECTION. IF AN EXISTING VALVE FAILS TO PASS THE TEST, THE CONTRACTOR WILL MAKE THE NECESSARY PROVISIONS TO TEST THE NEW LINE PRIOR TO CONNECTION TO THE EXISTING SYSTEM OR INSTALL A NEW VALVE.
9. AT ANY WATER MAIN TAP TO EXISTING CITY MAINS WHERE THE CONTRACTOR ENCOUNTERS A COUPLING OR EXISTING ASSEMBLIES, THE CONTRACTOR WILL PROVIDE A MINIMUM OF 18 INCHES OF CLEARANCE FROM COUPLING OR ASSEMBLIES TO EDGE OF TAPPING SLEEVE.
10. ANY WATER MAIN TAP OR CONNECTION WILL BE BLOCKED ACCORDING TO THE CITY OF ROY STANDARD PLANS.

	DATE	REVISIONS				DRAWING SIZE: D (22X34) SCALE: 		CITY OF ROY	WA	WELL SITE 2, WATER SYSTEM IMPROVEMENTS GENERAL NOTES	JOB NUMBER
DESIGNED BY: P. MAYE	10/26/26	NO.	DATE	DESCRIPTION							23097-06
ENTERED BY: D. MAERTENS	10/26/26						5016 Lacey Boulevard SE, Lacey, Washington 98503 (360) 491-3399 Fax (360) 491-3857	BID SET			
CHECKED BY: J. HNATISHIN	10/26/26										
PROJ. ENGR.: R. NELSON	10/26/26										
Plotted By: Dylan Maertens on 10/26/26 1:26 PM											
Saved By: DylanMaertens on 10/22/26 8:54 PM									SHEET		
c:\bms\skillings-pw-01\dylon_maertens\dms17896\23097-06_CN_01.dwg										G3	
										OF	
										19	
										SHEETS	

TOPOGRAPHIC SURVEY
FOR; CITY OF ROY
ROY RESERVOIR 2
SECTION 03, T17N, R2 W.M., PIERCE COUNTY, WA

CHICAGO TITLE INSURANCE COMPANY
COMMITMENT NUMBER: 0292299-16
EFFECTIVE DATE: MAY 8TH, 2025 AT 8:00 AM

TRAVERSE TABLE
(SKILLINGS)

- 1

SET MAGNAIL WITH WASHER
SKILLINGS 114
N: 611721.14'
E: 1129671.36'
ELEV: 325.44'
- 2

SET MAGNAIL WITH WASHER
SKILLINGS 1 - TIED TO SKILLINGS 115
N: 611998.84'
E: 1129732.57'
ELEV: 325.51'
- 3

SET HUB WITH TACK WITHIN GATE
SKILLINGS 3
N: 611833.35'
E: 1129822.96'
ELEV: 324.95'
- 4

LOCATED ON REBAR WITH CAP
SKILLINGS 2 - TIED TO SKILLINGS 108
N: 611694.17'
E: 1129946.39'
ELEV: 328.94'
- 5

SET HUB WITH TACK
SKILLINGS 4
N: 611867.01'
E: 1129893.58'
ELEV: 325.35'

CONTROL TABLE (SKILLINGS)

- 1

FOUND 3" BRASS DISK IN CONCRETE ON
TOP OF WEST BANK OF HIGHWAY 507 -
WSDOT DESIGNATION: GP27507-88 -
MONUMENT ID: 4218
- 2

FOUND 3" BRASS DISK IN CONCRETE
SOUTHWEST NEAR ROY CITY HALL -
WSDOT DESIGNATION: ROY -
MONUMENT ID: 4220
- 3

FOUND 5/8" REBAR WITH CAP:
LS 12620 - SKILLINGS 103
S 9°27'14" E 0.24'
- 4

FOUND 1/2" REBAR WITH CAP:
LS 30425 - SKILLINGS 104
- 5

FOUND 1/2" REBAR WITH CAP
LS 37551 - SKILLINGS 116
- 6

FOUND 1/2" REBAW WITH CAP:
LS 37551 - SKILLINGS 105
N 89°35'34" E # 2.87'
- 7

FOUND 5/8" REBAR WITH CAP:
LS 12620 - SKILLINGS 106
S 3°53'35" E 0.29'
- 8

FOUND 5/8" REBAR WITH CAP:
LS 12620 - SKILLINGS 107
S 15°13'50" E 0.25'
- 9

FOUND 5/8" REBAR WITH CAP AND TACK:
LS 12620 - SKILLINGS 108
S 28°4'54" E 0.21'
- 10

FOUND 5/8" REBAR WITH CAP:
LS 40097 - SKILLINGS 109
S 3°25'16" E 0.26'
- 11

FOUND 5/8" REBAR WITH CAP:
LS 40097 - SKILLINGS 110
S 34°17'30" E 0.34'

EXHIBIT A
LEGAL DESCRIPTION

FOR APN/PARCEL ID(S): 021703-2-049
LOT NO. 1 AS SET FORTH IN A DECLARATION OF BOUNDARY LINE REVISION RECORDED UNDER
AUDITOR'S FEE NO. 8410170040, RECORDS OF PIERCE COUNTY, WASHINGTON LOCATED IN THE
FRANCIS GRAVAILLE DONATION LAND CLAIM NO. 38, TOWNSHIPS 17 NORTH AND 18 NORTH, RANGE
2 EAST, W.M., PIERCE COUNTY, WASHINGTON;
EXCEPT THAT PORTION OF SAID LOT NO. 1 DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWESTERLY CORNER OF SAID LOT NO. 1;
THENCE NORTH 11°13'36" EAST ALONG THE WESTERLY LINE OF SAID LOT NO. 1, SAID LINE ALSO
BEING THE EASTERLY LINE OF THE OLD SECONDARY STATE HIGHWAY NO. 5-H, SOMETIMES
KNOWN AS THE ROY-MCKENNA COUNTY ROAD AND FORMERLY KNOWN AS THE WOOD-GOODWIN
COUNTY ROAD, A DISTANCE OF 188.39 FEET;
THENCE SOUTH 65°50'19" EAST, PARALLEL WITH THE SOUTHERLY LINE OF SAID LOT NO. 1, A
DISTANCE OF 125.30 FEET TO THE INTERSECTION
WITH THE RIGHT-OF-WAY LINE DRAWN PARALLEL WITH AND 140 FEET WESTERLY, WHEN
MEASURED AT RIGHT ANGLES, OF THE SURVEY LINE OF STATE HIGHWAY ROUTE NO. 507 AS
SHOWN ON SHEET 6 OF 7 OF THAT DEPARTMENT OF HIGHWAYS MAP TITLED SR-507, YELM TO ROY
AND APPROVED OCTOBER 13, 1954;
THENCE SOUTH 77°05'16" EAST A DISTANCE OF 107.5 FEET TO A POINT ON THE EASTERLY LINE OF
SAID LOT NO. 1 WHICH POINT IS 208.21
FEET NORTHEASTERLY OF THE SOUTHEASTERLY CORNER OF SAID LOT NO. 1;
THENCE SOUTH 13°26'47" WEST ALONG THE EASTERLY LINE OF SAID LOT NO. 1, SAID LINE ALSO
BEING PARALLEL WITH AND 32.5 FEET WESTERLY, WHEN MEASURED AT RIGHT ANGLES, OF THE
ABOVE SAID SURVEY LINE OF STATE HIGHWAY ROUTE NO. 507, A DISTANCE OF
208.21 FEET TO THE SOUTHEASTERLY CORNER OF SAID LOT NO. 1;
THENCE NORTH 65°50'19" WEST ALONG THE SOUTHERLY LINE OF SAID LOT NO. 1 A DISTANCE OF
227.28 FEET TO THE SOUTHWESTERLY CORNER OF SAID LOT NO. 1 AND THE POINT OF BEGINNING.

SITUATE IN THE COUNTY OF PIERCE, STATE OF WASHINGTON.

SCHEDULE B - SPECIAL EXCEPTIONS
LEGAL DESCRIPTION

- 1

RELINQUISHMENT OF ACCESS TO STATE HIGHWAY NUMBER 5-H AND OF LIGHT, VIEW
AND AIR BY DEED: GRANTEE: STATE OF WASHINGTON
RECORDING DATE: (NOT-PLOTTED)
RECORDING NO.: (NOT-PLOTTED)
RECORDING NO.: (NOT-PLOTTED)
- 2

RECORDING NO: (NOT-PLOTTED)
- 3

RECORDING DATE: (NOT-PLOTTED)
RECORDING NO.: (NOT-PLOTTED)
- 4

AGREEMENT AND THE TERMS AND CONDITIONS THEREOF:
(100' WELL RADIUS - PER PIERCE COUNTY BOARD OF HEALTH RESOLUTION #2018-4560 -
CHAPTER 2 PAGE 35 - PLOTTED)
- 5

(NOT-PLOTTED)
- 6

SPECIAL TAXES AND CHARGES: (NOT PLOTTED)
- 7

RECORDING DATE: (NOT-PLOTTED)
RECORDING NO.: (NOT-PLOTTED)
- 8

RECORDING DATE: (NOT-PLOTTED)
RECORDING NO.: (NOT-PLOTTED)
- 9

(NOT-PLOTTED)

	DATE	REVISIONS		
DESIGNED BY: P. MAYE	5/20/26	NO.	DATE	DESCRIPTION
ENTERED BY: B. BAON	5/20/26			
CHECKED BY: J. HNATISHIN	5/20/26			
PROJ. ENGR.: P. MAYE	5/20/26			
Plotted By: Matthias Gallagher on 5/20/26 10:00 AM				
Saved By: MatthiasGallagher on 5/11/26 8:48 AM				
C:\bms\skillings-pw-01\matthias_gallagher\dms06161\23097_06_EX_BP_TOP0.dwg				



5016 Lacey Boulevard SE, Lacey, Washington 98503
(360) 491-3399 Fax (360) 491-3857



CITY OF ROY

WA

NEW RESERVOIR, BOOSTER PUMP STATION,
AND TREATMENT PLANT

TOPOGRAPHIC SURVEY

JOB NUMBER 23097-06 BID SET
SHEET C1 OF 19 SHEETS

BASIS OF BEARING
THE FOUND 3" BRASS DISK STAMPED
IDENTIFIED AS WSDOT 4218 (GP27507-88) TO
THE FOUND 3" BRASS DISK IDENTIFIED AS
WSDOT 4220 (ROY); SAID LINE BEARS
N 13° 36' 34" E A MEASURED DISTANCE OF
6,117.25 FEET (MEASURED BEARING AS
SHOWN ON MAP.)

BENCHMARK
WSDOT "ROY" DESIGNATION
MON ID 4220
N: 615,454.96'
E: 1,130,656.57'
ELEV: 316.85'

EQUIPMENT & PROCEDURES
TRIMBLE R12I RECEIVER WITH TRIMBLE TSC5
DATA COLLECTOR AND TOPCON GT1003 TOTAL
STATION USING FIELD TRAVERSE METHODS.
THE RESULTS OF THE FIELD SURVEY MEET OR
EXCEED THE REQUIRED STANDARDS LISTED IN
WAC 332-130-090.

METHOD OF SURVEY
SURVEY PERFORMED BY CONVENTIONAL
FIELD TRAVERSE USING A LINEAR AND
ANGULAR CLOSURE OF THE TRAVERSE
MEET THE STANDARDS OF WAC 332-130-090.

UNITS OF MEASURE ARE US SURVEY FEET
GRID COORDINATES SHOWN ARE NAD-83
WSRN WASHINGTON SOUTH ZONE,
ELEVATIONS SHOWN IN NAVD-88

BOUNDARY
THE BOUNDARY WAS COMPILED
USING PHYSICAL FEATURES TIED IN
THE FIELD AND DOCUMENTS OF
RECORD AS SHOWN BELOW.

SURVEYS REFERENCED
AF# 202401105006, PIERCE COUNTY,
WASHINGTON

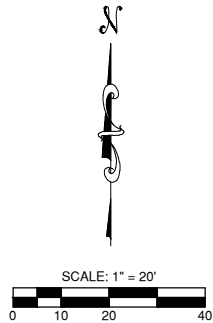
SURVEYOR'S NOTES
1. THE SCOPE OF WORK FOR
THIS TOPOGRAPHIC SURVEY
CONSISTED OF MAPPING
PARCEL NUMBER 021703204960.

2. CONTOURS DERIVED FROM
DIRECT FIELD OBSERVATION
COMPLETED MAY, 2025.

3. ELEVATIONS AND CONTOUR
ACCURACY PER "NATIONAL
MAPPING STANDARDS" TO
SUPPORT 1 FOOT CONTOUR
INTERVALS.

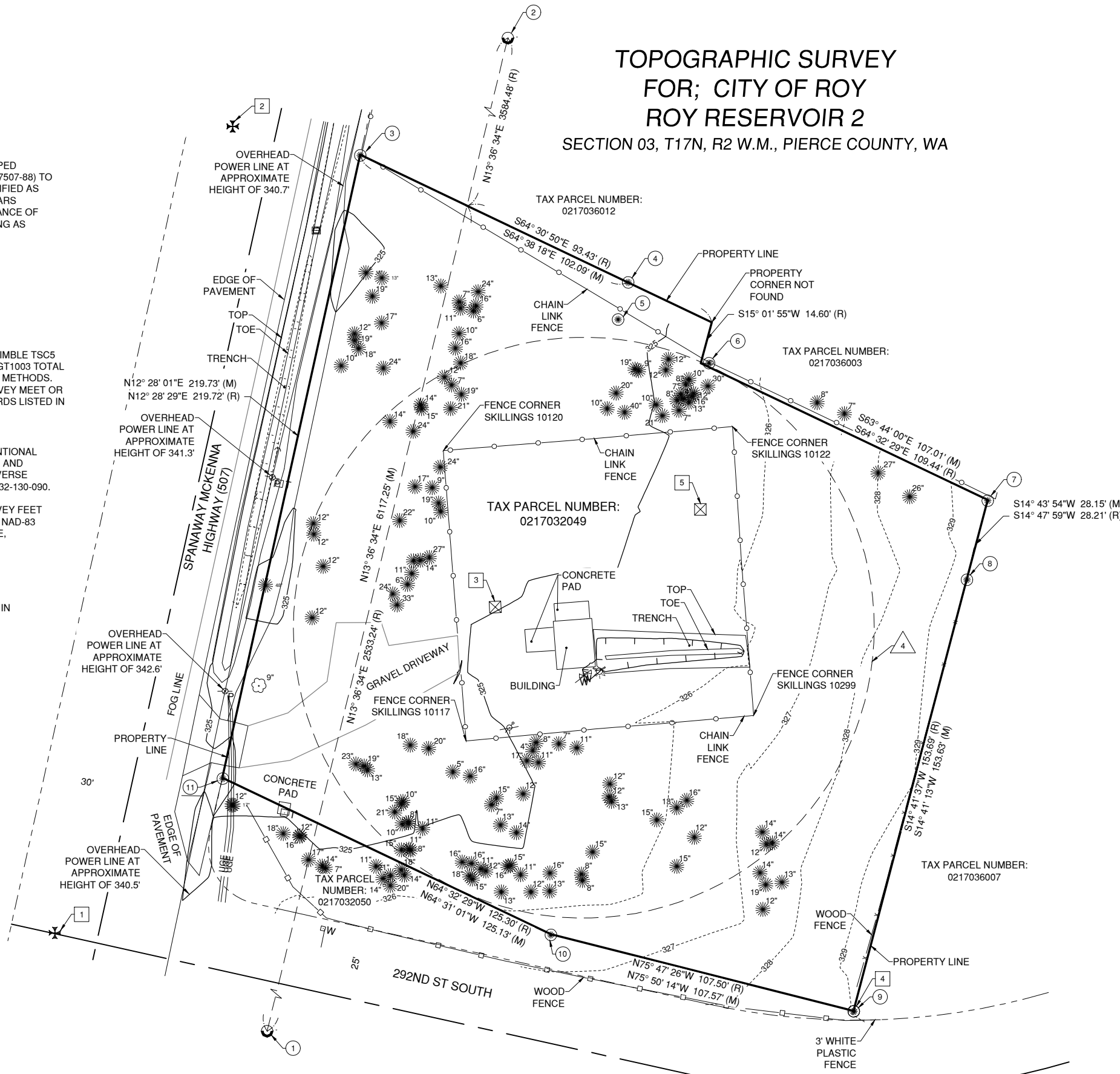
4. THIS SURVEY HAS BEEN
PREPARED FOR THE EXCLUSIVE
USE OF THE PARTIES WHOSE
NAMES APPEAR HEREON ONLY,
AND DOES NOT EXTEND TO ANY
UNNAMED THIRD PARTIES
WITHOUT THE EXPRESS
RE-CERTIFICATION BY THE LAND
SURVEYOR.

TOPOGRAPHIC SURVEY FOR; CITY OF ROY ROY RESERVOIR 2 SECTION 03, T17N, R2 W.M., PIERCE COUNTY, WA

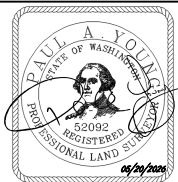


LEGEND

- ⊙ CONTROL POINT
- # TRAVERSE POINT
- △ LEGAL DESCRIPTION: SCHEDULE B SPECIAL EXCEPTIONS
- (M) MEASURED BEARING AND DISTANCE
- (R) REFERENCED BEARING AND DISTANCE
- (C) CALCULATED BEARING AND DISTANCE
- ⊙ BRASS DISK
- ⊠ HUB & TACK
- ⊙ #5 REBAR W/ CAP
- ⊠ STORM CATCH BASIN TYPE 1
- ⊠ WATER VALVE
- ⊠ POST INDICATOR VALVE
- ⊠ W WATER METER
- ⊠ AIR RELEASE VALVE
- ⊠ POWER POLE
- ⊠ POWER POLE ANCHOR
- ⊠ POWER POLE W/ DROP
- ⊠ T PHONE PEDESTAL
- ⊠ CONIFER TREE
- ⊠ DECIDUOUS TREE
- x — x — FENCE
- x — x — BARBWIRE FENCE
- o — o — CHAIN LINK FENCE
- □ — □ — WOOD FENCE
- UGE — UNDERGROUND POWER LINE
- W - - - W - - - WATER LINE
- OPH — OVERHEAD PHONE LINE



DESIGNED BY: P. MAYE	DATE	NO.	DATE	REVISIONS
ENTERED BY: B. BAON	5/20/26			DESCRIPTION
CHECKED BY: J. HNATISHIN	5/20/26			
PROJ. ENGR.: P. MAYE	5/20/26			
Plotted By: Matthias Gallagher on 5/20/26 10:04 AM				
Saved By: MatthiasGallagher on 5/11/26 8:48 AM				
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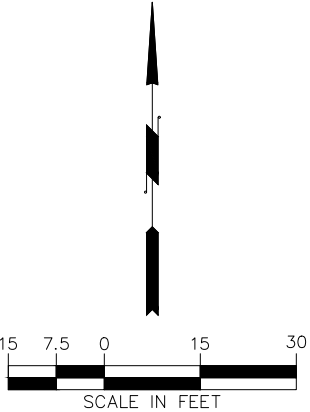
NEW RESERVOIR, BOOSTER PUMP STATION,
AND TREATMENT PLANT

TOPOGRAPHIC SURVEY

JOB NUMBER	23097-06
BID SET	
SHEET	C2
OF	19
SHEETS	

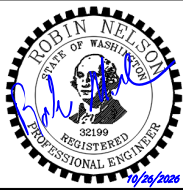
SEC. 03 , T. 17N, R. 2, W.M.

SILT FENCE			
POINT #	ELEVATION	NORTHING	EASTING
101	324.94	611824.36	1129810.97
102	324.52	611886.31	1129806.17
103	325.46	611894.42	1129903.72
104	326.60	611796.94	1129910.71
105	324.79	611788.34	1129813.86
106	324.96	611810.20	1129812.22



- DEMOLITION NOTES:**
1. USE EXISTING GRAVEL DRIVEWAY FOOTPRINT (815 SF) FOR CONSTRUCTION ENTRANCE. SEE DETAIL ON SHEET C4 FOR STANDARD CONSTRUCTION ENTRANCE DETAIL.
 2. PROVIDE SILT FENCING (569 LF) . SEE DETAIL ON SHEET C4.
 3. PROTECT IN PLACE EXISTING SPLIT RAIL FENCE.
 4. CLEARING AND GRUBBING LIMITS AT EXISTING CHAIN LINK FENCE. CHAIN LINK FENCE TO REMAIN (PROTECT IN PLACE). (0.33 ACRES)
 5. NEW IMPERVIOUS AREA. 448 SF.
 6. EXISTING BARBED WIRE FENCED TO REMAIN (PROTECT IN PLACE).
 7. EXISTING PUMP DISCHARGE TRENCH

DESIGNED BY: P. MAYE	DATE	NO.	DATE	REVISIONS
ENTERED BY: D. MAERTENS	10/26/26			DESCRIPTION
CHECKED BY: J. HNATISHIN	10/26/26			
PROJ. ENGR.: R. NELSON	10/26/26			
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DRAWING SIZE: D (22X34) SCALE: 1"=100'

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City of Roy
WASHINGTON

CITY OF ROY WA

WELL SITE 2, WATER SYSTEM IMPROVEMENTS

TESC

JOB NUMBER: 23097-06
BID SET

SHEET C3 OF 19 SHEETS

DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE, AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS. COMPACTION MUST BE ADEQUATE TO PREVENT UNDERCUTTING FLOWS.

MINIMIZE DISTURBING THE GROUND MUCH AS IS FEASIBLE, AND SMOOTH EXCAVATION TO AVOID CONCENTRATION MUST BE ADEQUATE TO FLOWING FLOWS.

INSTALLATION DETAIL
(POSTS SHOWN)

SEE NOTE 1

FLOW

6" - 0" MAX. SPACING

PROTECTED AREA

GEOTEXTILE FOR SILT FENCE ~ SEE STANDARD SPECIFICATION SECTION 9-33.2 (1), TABLE 6

POST
~ WOOD OR STEEL
(TYPICAL)

FASTEN TO POST
EVERY 6" O.C.

FABRIC (GEOTEXTILE)
(TYPICAL)

**TYPICAL SILT FENCE
WITHOUT BACKUP SUPPORT
ISOMETRIC
(STEEL POSTS SHOWN)**

SPliced fence sections shall be close enough together to prevent silt laden water from escaping through the fence at the overlap.

1. Install the ends of the silt fence to point slightly upslope to prevent sediment from flowing around the ends of the fence.
2. Perform maintenance in accordance with **Standard Specifications 8-01.3(9)A and 8-01.3(15)**.
3. Splices shall **never** be placed in low spots or sump locations. If splices are located in low or sump areas, the fence may need to be reinstalled unless the Project Engineer approves the installation.
4. Install silt fencing parallel to mapped contour lines.



SILT FENCE

STANDARD PLAN I-30.15-02

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION

Pasco Bakotich III **3/22/13**

STATE DESIGN ENGINEER _____ DATE _____
 Washington State Department of Transportation

 Washington State Department of Transportation

ISOMETRIC VIEW
STABILIZED CONSTRUCTION ENTRANCE

STABILIZED CONSTRUCTION ENTRANCE SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 8-01.3(7).

NOT TO SCALE

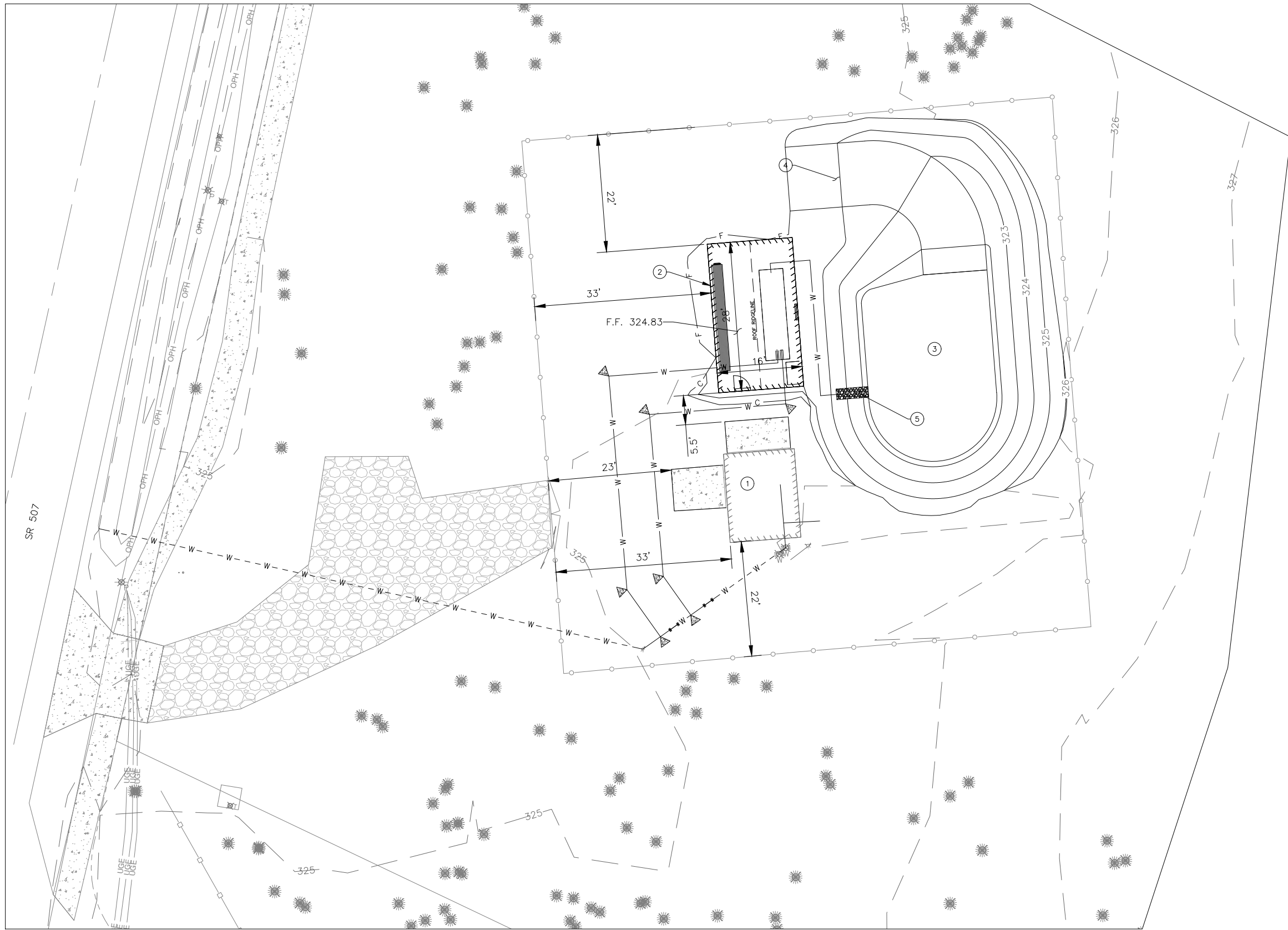
NOT TO SCALE


SKILLINGS

WA

TESC DETAIL

JOB NUMBER 23097-06 BID SET	SHEET C4 OF 19 SHEETS



- (X) CONSTRUCTION NOTES:
1. EXISTING WELL AND STRUCTURES TO BE PROTECTED IN PLACE.
 2. NEW MECHANICAL BUILDING. SEE SHEET M3.
 3. NEW SEDIMENT STORAGE POND. SEE SHEET C6.
 4. GRAVEL ACCESS TO POND.
 5. SPLASH PAD OUTFALL. SEE DETAIL 1 ON SHEET C7.
 6. CONTRACTOR SHALL INCLUDE REINFORCED CONCRETE SLAB DESIGNED BY A LICENSED

DESIGNED BY: P. MAYE	DATE	NO.	DATE	REVISIONS
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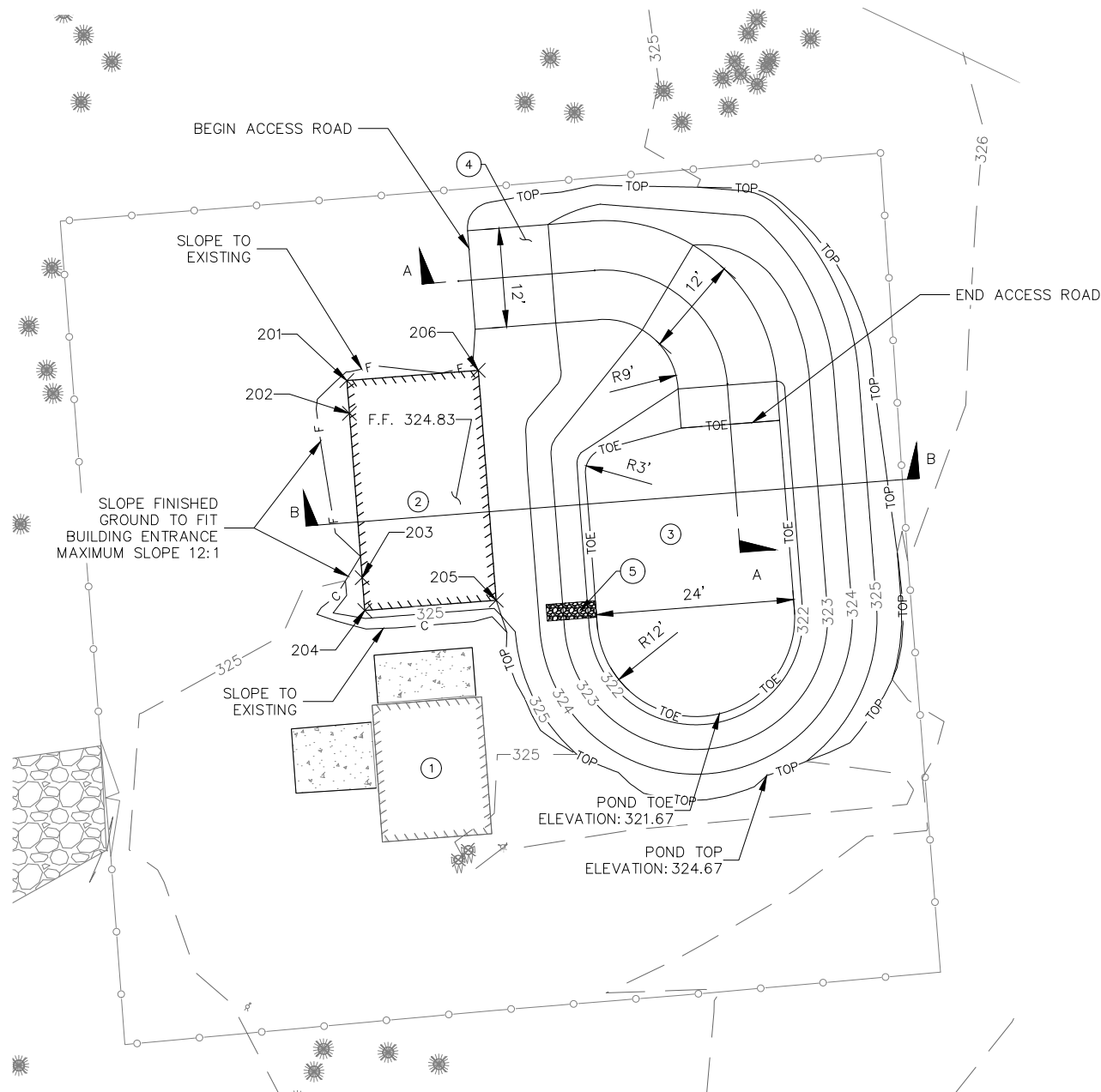
CITY OF ROY WA

WELL SITE 2, WATER SYSTEM IMPROVEMENTS

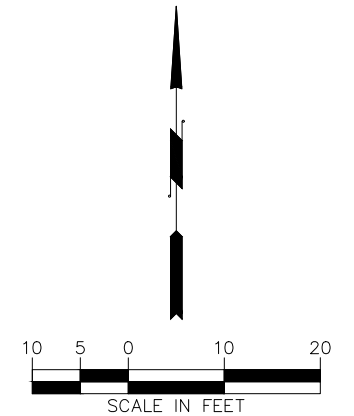
SITE PLAN

JOB NUMBER: 23097-06
BID SET

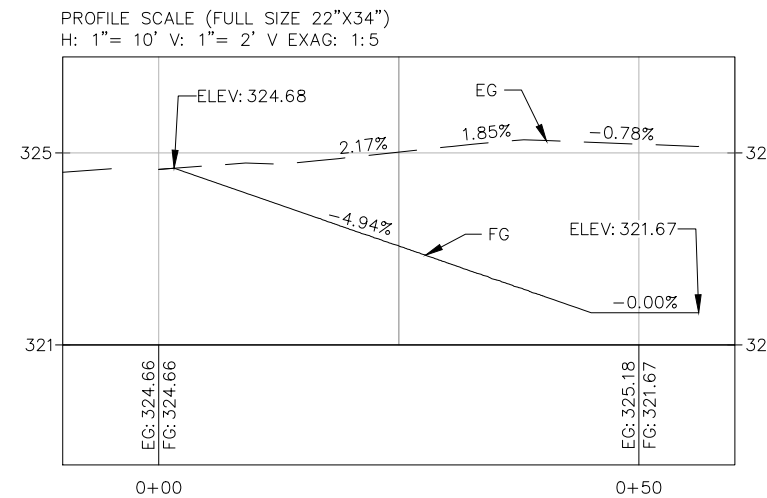
SHEET C5 OF 19 SHEETS



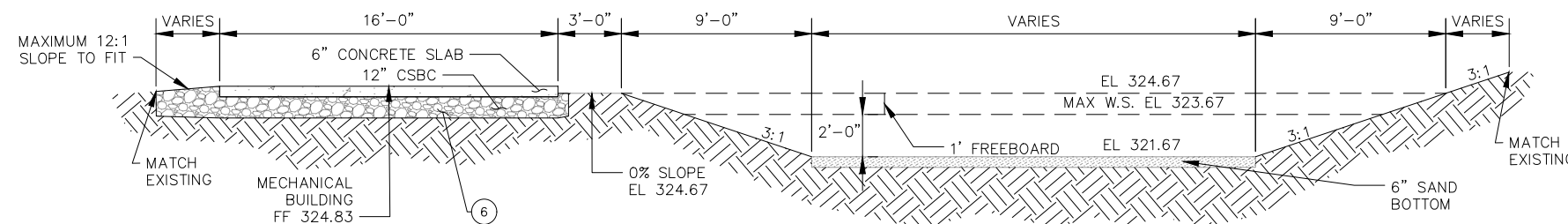
FINISHED GROUND AT MECHANICAL BUILDING			
POINT #	ELEVATION	NORTHING	EASTING
201	324.68	611867.87	1129839.88
202	324.83	611863.89	1129840.19
203	324.83	611843.95	1129841.74
204	324.68	611839.96	1129842.05
205	324.68	611841.20	1129858.00
206	324.68	611869.11	1129855.83



- (X) CONSTRUCTION NOTES:
- EXISTING WELL AND STRUCTURES TO BE PROTECTED IN PLACE.
 - NEW MECHANICAL BUILDING. SEE SHEET M3.
 - NEW SEDIMENT STORAGE POND. SEE SHEET C6.
 - GRAVEL ACCESS TO POND.
 - SPLASH PAD OUTFALL. SEE DETAIL 1 ON SHEET C7.
 - CONTRACTOR SHALL INCLUDE REINFORCED CONCRETE SLAB DESIGNED BY A LICENSED STRUCTURAL ENGINEER TO ACCOMPANY MECHANICAL BUILDING STRUCTURAL DESIGN FOR PERMITTING.

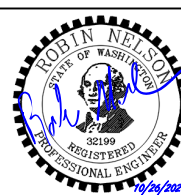


A-A POND ACCESS GRADING



B-B MECH BUILDING AND POND SECTION

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PROJ. ENGR.: R. NELSON	10/26/26			
Plotted By: Dylan Maertens on 10/26/26 1:27 PM				
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DRAWING SIZE: D (22X34) SCALE: 1"=10'

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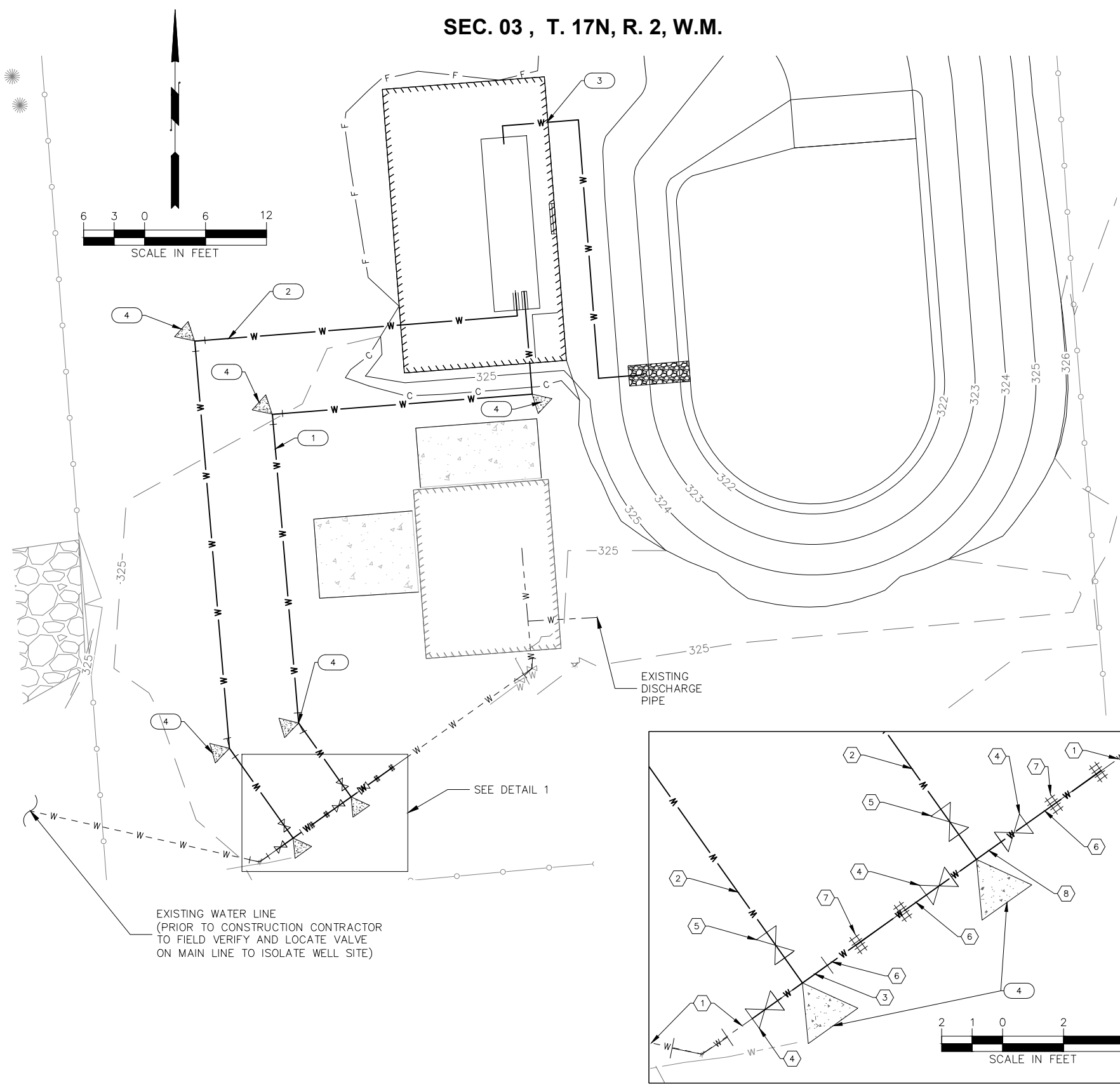


WELL SITE 2, WATER SYSTEM IMPROVEMENTS

SITE GRADING PLAN

JOB NUMBER	23097-06
BID SET	
SHEET	C6
OF	19
SHEETS	

SEC. 03 , T. 17N, R. 2, W.M.



KEY NOTES:

1. RAW WATER.
2. SUPPLY DISTRIBUTION.
3. TREATMENT BACKWASH. SEE SHEET M3.
4. THRUST BLOCK. SEE SHEET C8.
5. SPLASH PAD OUTFALL. SEE DETAILS 1

NOTES:

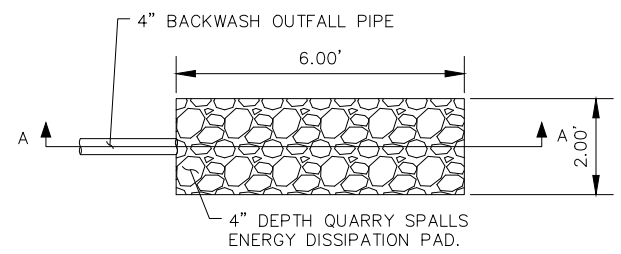
1. EXISTING 10" DIAMETER WATER MAIN.
2. 6" DIAMETER DI CL 52 PROPOSED WATER MAIN.
3. 10" x 6" DIAMETER DI TEE BEND (FL X MJ X FL).
4. 10" DIAMETER DI GATE VALVE (FL X MJ).
5. 6" DIAMETER DI GATE VALVE (FL X MJ).
6. 10" DIAMETER SPOOL (PE.).
7. 10" SOLID SLEEVE (MJ).
8. 10" x 6" DIAMETER DI TEE BEND (FL X FL).

GENERAL NOTES:

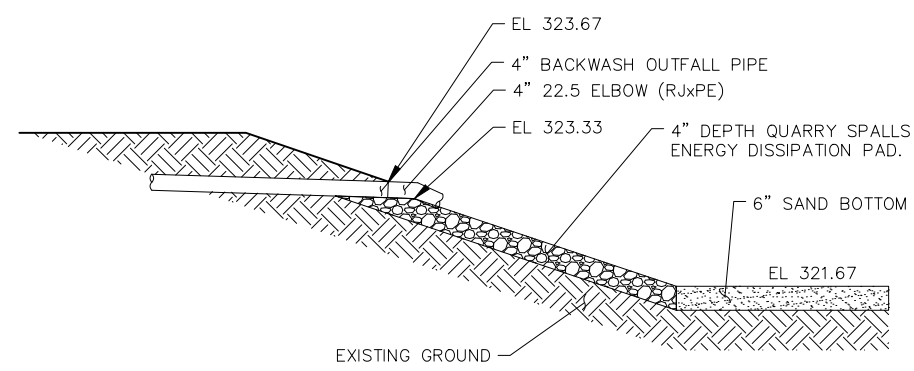
1. ALL RESTRAINED JOINT FITTINGS SHALL BE EBBA IRON MEGA FLANGE SERIES 2100 OR APPROVED EQUAL.

PIPING NOTES:

1. 4" DI 90° VERT. BEND (FL)
2. 4" FLANGE COUPLING ADAPTER
3. 4" DI SPOOL (PE)
4. 6" DI 90° VERT BEND (FL)
5. 6" FLANGE COUPLING ADAPTER
6. 6" DI SPOOL (PE)
7. RAW WATER FILTRATION SKID (SEE SHEET M4 AND M5)
8. 4" DI 22.5° VERT. BEND (FL)
9. 4" DI 90° RESTRAINED JOINT (RjxRj)



PLAN



A-A

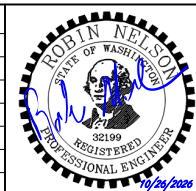
SPLASH PAD OUTFALL DETAIL

N.T.S.

RAW WATER CONNECTION DETAIL

1
C7

DESIGNED BY:	DATE	NO.	DATE	REVISIONS
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CHECKED BY: J. HNATISHIN	10/26/26			
PROJ. ENGR.: R. NELSON	10/26/26			
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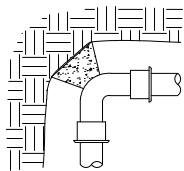
CITY OF ROY WA

WELL SITE 2, WATER SYSTEM IMPROVEMENTS

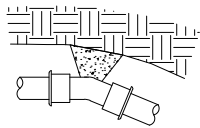
SITE YARD PIPING PLAN

JOB NUMBER: 23097-06
BID SET

SHEET: C7 OF 19 SHEETS

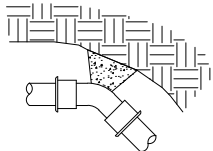


90° BEND



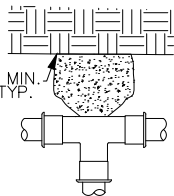
11 1/4° BEND

22 1/2° BEND



45° BEND

SEE 6001 PAGE 2 FOR MIN. THRUST BLOCK AREA, TYP. ALL BENDS.



TEE

SOIL TYPE	APPROX. BEARING CAPACITY (LBS/SQ FT)
MUCK, PEAT, ETC.	0
SOFT CLAY	500
SAND, SILT	1000
SAND AND GRAVEL, SANDY SILT	1500
SAND AND GRAVEL WITH CLAY	2000
SAND AND GRAVEL CEMENTED WITH CLAY	4000
SANDY CLAY	6000
HARD CLAY, HARD SHALE	9000

THRUST DEVELOPED BY FITTINGS IN PRESSURE PIPE

NOMONAL PIPE SIZE (IN)	TEST PRESSURE (PSI)	DEAD END, TEE, VALVE	BENDS			
			90	45	22.5	11.25
3	100	1,845	2,625	1,410	720	360
4	100	2,715	3,840	2,085	1,065	540
6	100	5,610	7,935	4,290	2,190	1,095
8	100	9,645	13,650	7,380	3,765	1,890
10	100	14,520	20,535	11,115	5,670	2,850
12	100	20,535	29,025	15,720	8,010	4,020
14	100	27,585	39,000	21,105	10,770	5,400
16	100	35,670	50,445	27,300	13,920	6,990
18	100	44,835	63,360	34,290	17,475	8,790
20	100	54,960	77,730	42,075	21,450	10,770
24	100	78,420	110,895	60,015	30,600	15,375

NOTES:

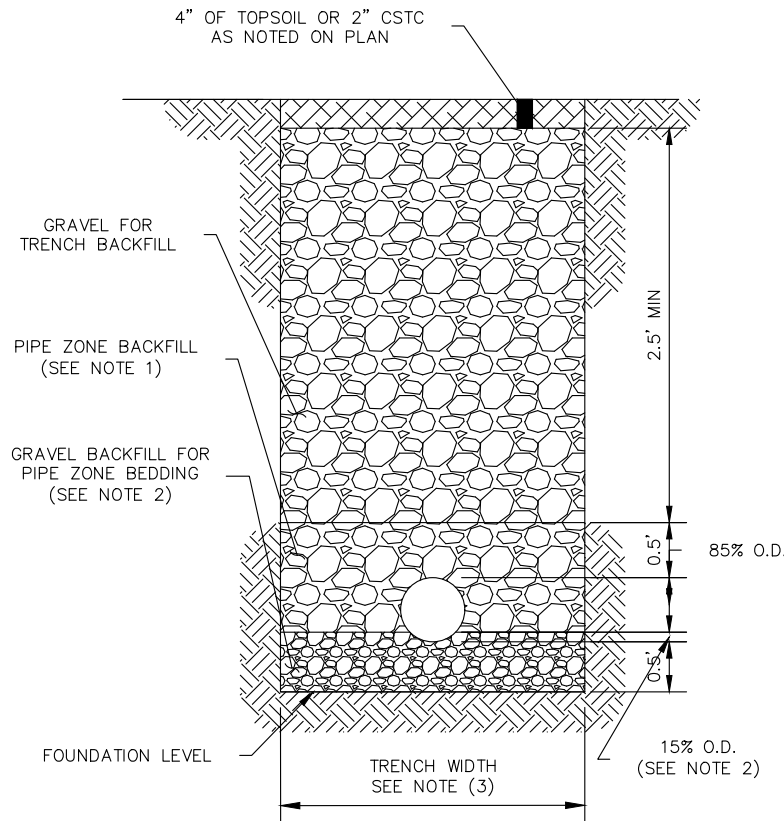
- THRUST BLOCKS ARE REQUIRED ON ALL BENDS FOR PRESSURE PIPE WITH PUSH-ON OR MECHANICAL TYPE JOINTS.
- ALL CONCRETE BLOCKING SHALL BE POURED AGAINST DRY, UNDISTURBED SOIL
- THRUST BLOCK SHALL BE SIZED USING THE TEST PRESSURE OF THE PIPE.
- THRUST BLOCKING SHALL BE POURED IN THE PRESENCE OF THE INSPECTOR.
- ALL VERTICAL BENDS AND VALVES SHALL UTILIZE GRAVITY THRUST BLOCKS.
- THE CONCRETE SHALL BE COMMERCIAL CLASS.
- THE CONTRACTOR MAY MAKE A SUBMITTAL FOR ENGINEERS APPROVAL TO USE RESTRAINED JOINTS IN LIEU OF THRUST BLOCKS. SUBMITTAL SHALL INCLUDE CALCULATIONS OF RESTRAINED LENGTHS
- THRUST BLOCK SIZING CALCULATIONS SHALL BE SUBMITTED BY THE RECORD ENGINEER FOR APPROVAL.

- SOIL BEARING CAPACITIES SHOWN ARE APPROXIMATE ACTUAL SOIL AN BEARING CAPACITY ADJACENT TO THRUST BLOCK MUST BE DETERMINED BY A LICENSED ENGINEER OR OTHER SOILS PROFESSIONAL
- TO DETERMINE MINIMUM THRUST BLOCK AREA REQUIRED, DIVIDE THE THRUST BY THE SOIL BEARING CAPCITY
- FOR TEST PRESSURES OTHER THAN 100 PSI, MULTIPLY THE THRUST BY THE RATIO OF ACTUAL PRESSURE TO 100 PSI
- EXAMPLE: 4" 45° BEND WITH TEST PRESSURE OF 250 PSI, AND SOIL BEARING CAPACITY OF 2000 LBS/SQ. FT
FROM CHART, THRUST = 2085 LBS x (250/100) = 5213 LBS
MIN THRUST BLOCK AREA = 5213 LBS/(2000 LBS/SQ FT) = 2.6 SQ FT

CONCRETE THRUST BLOCKING DETAIL

NOT TO SCALE

1
C8



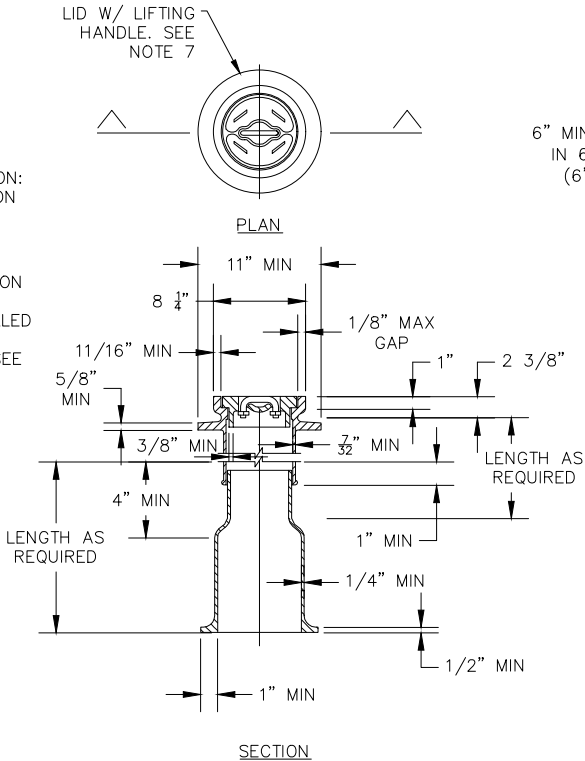
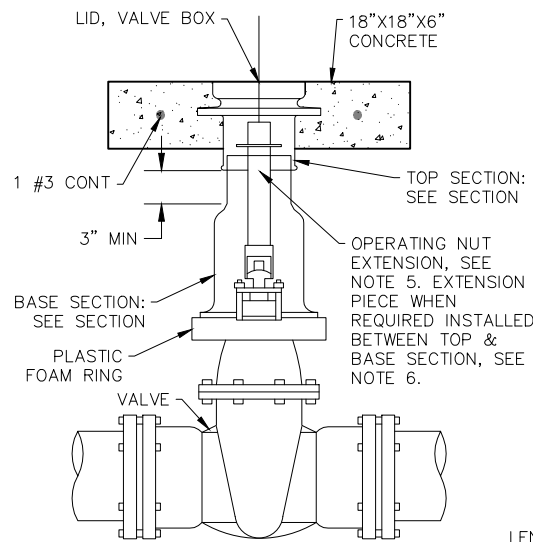
NOTES:

- SEE STANDARD SPECIFICATIONS SECTION 7-08.3(3) FOR PIPE ZONE BACKFILL.
- SEE STANDARD SPECIFICATIONS SECTION 9-03.12(3) FOR GRAVEL BACKFILL FOR PIPE ZONE BEDDING.
- SEE STANDARD SPECIFICATIONS SECTION 3-07.4 FOR MEASUREMENT OF TRENCH WIDTH.

DUCTILE IRON TRENCH DETAIL

NOT TO SCALE

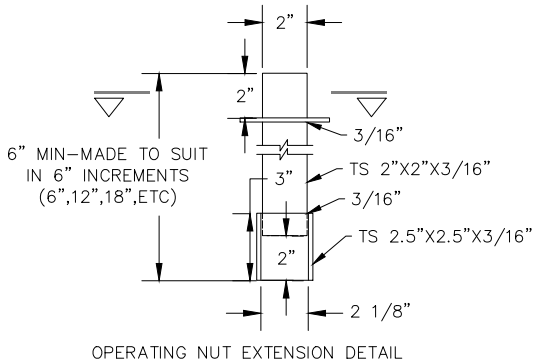
3
C8



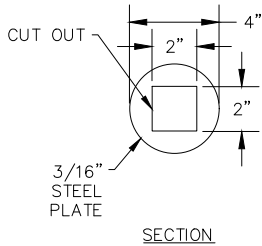
VALVE AND VALVE BOX DETAIL

NOT TO SCALE

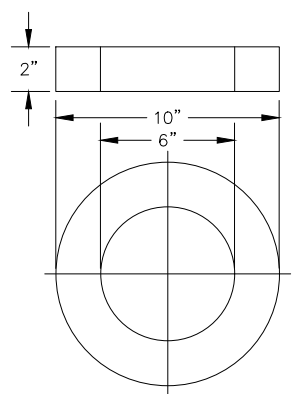
2
C8



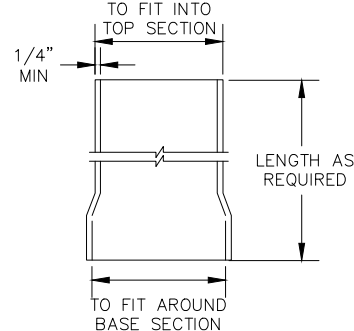
OPERATING NUT EXTENSION DETAIL



SECTION



PLASTIC FOAM RING DETAIL



EXTENSION PIECE

NOTES:

- FRAME AND COVER SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS FOR DELIVERY.
- CASTINGS AND EXTENSIONS SHALL BE HOT-DIPPED IN ASPHALTIC VARNISH ROYSTON ROSKOTE #612XM OR 2 COASTS OF MASTIC ROYSTON INSIDE AND OUT.
- VALVE BOXES SHALL BE RICH #045: TOP SECTION, LID AND BASE; OR OLYMPIC FOUNDRY: LID #1908-33, TOP SECTION #1106-33, BASE SECTION #1301-33 OR APPROVED EQUAL.
- ALL CASTINGS SHALL BE DUCTILE IRON OR GREY CAST IRON.
- AN OPERATING NUT EXTENSION SHALL BE INSTALLED WHEN THE GROUND SURFACE IS MORE THAN 2'6" ABOVE THE VALVE OPERATING NUT. THE OPERATING NUT EXTENSION SHALL EXTEND INTO THE TOP SECTION OF THE STANDARD VALVE BOX AND SHALL CLEAR THE BOTTOM OF THE LID BY 6" MINIMUM.
- EXTENSION PIECES (WHEN USED) SHALL CONFORM TO MINIMUM THICKNESS REQUIREMENTS AND SHALL FIT INTO THE TOP SECTION AND OVER THE BOTTOM SECTION.
- LID SHALL BE STAMPED "WATER".

DESIGNED BY:	DATE	NO.	DATE	REVISIONS
P. MAYE	10/26/26			DESCRIPTION
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City of Roy WASHINGTON

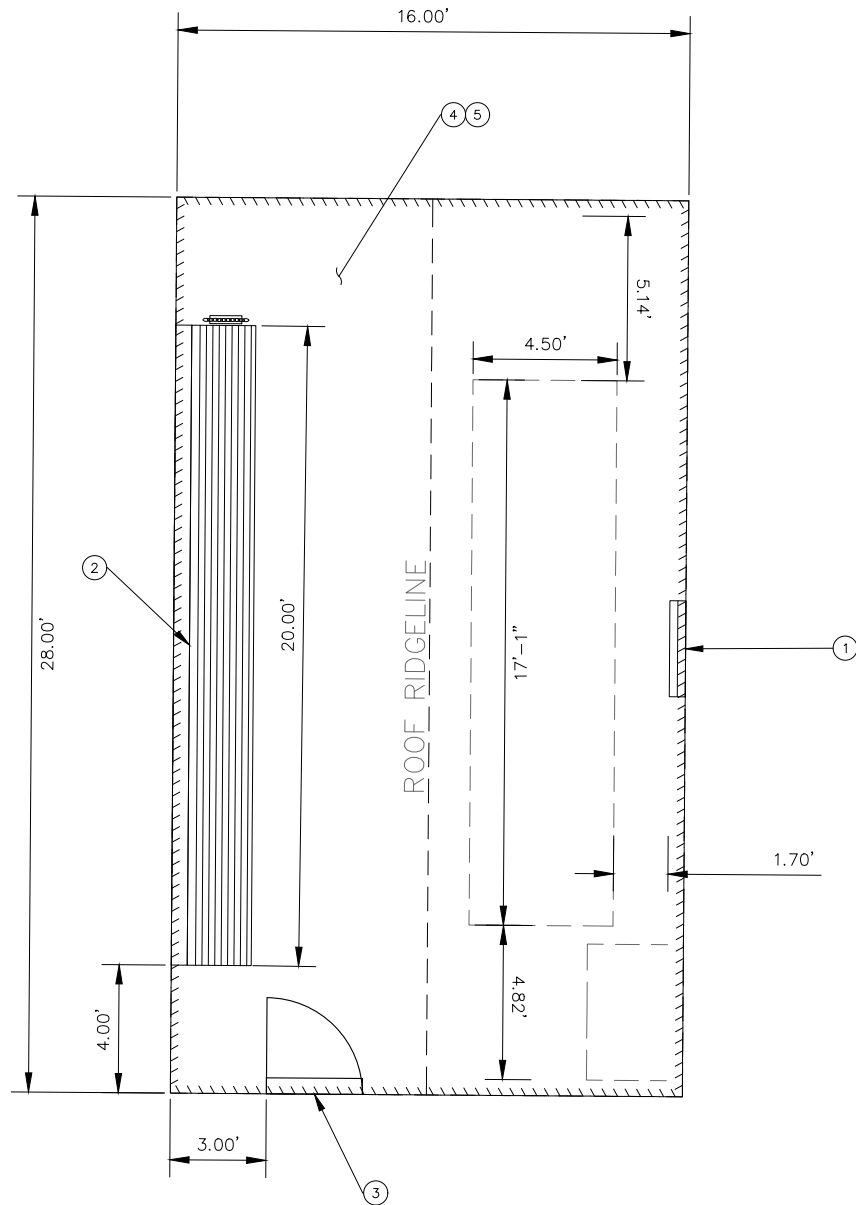
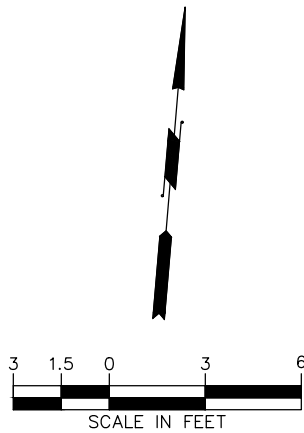
CITY OF ROY WA

WELL SITE 2, WATER SYSTEM IMPROVEMENTS

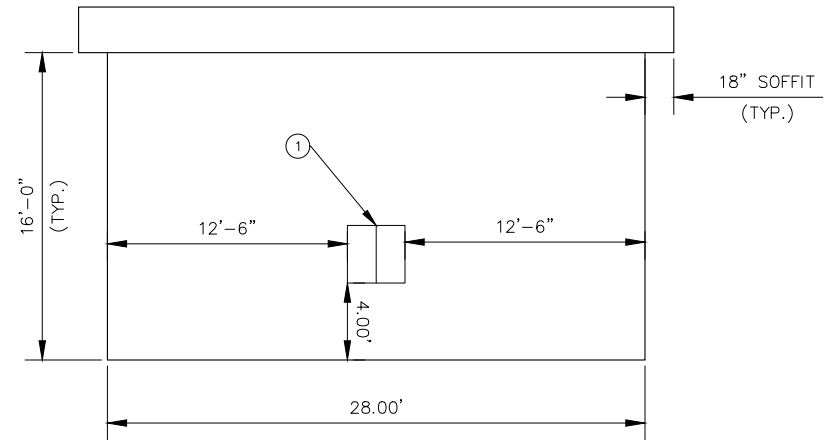
WATER DETAILS

JOB NUMBER: 23097-06
BID SET

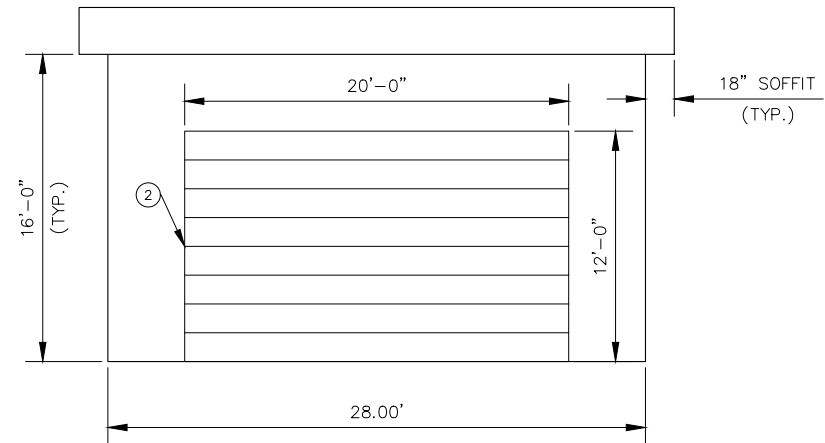
SHEET: C8 OF 19 SHEETS



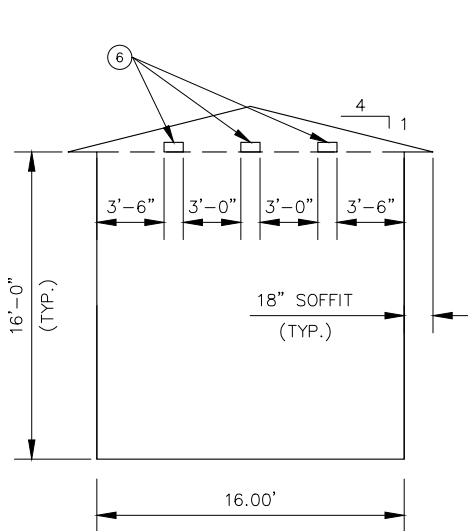
MECHANICAL BUILDING PLAN



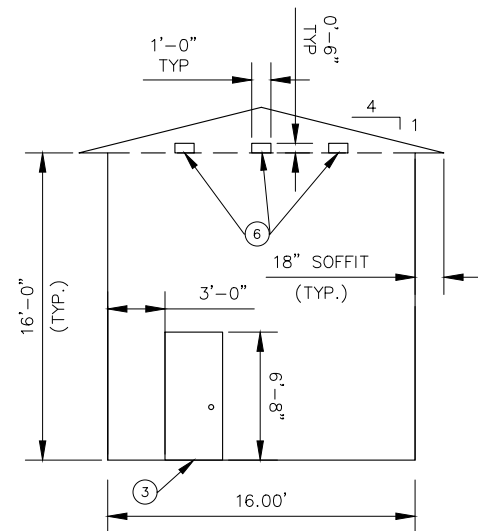
EAST ELEVATION



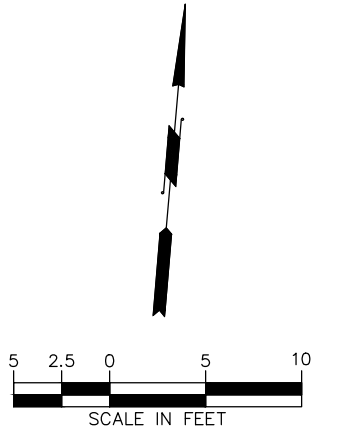
WEST ELEVATION



NORTH ELEVATION



SOUTH ELEVATION



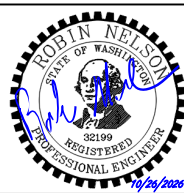
GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE COMPLETE ENGINEERED 16'x28' POST FRAME BUILDING PLANS, INCLUDING FRAMING, METAL SIDING, ROOFING, INSULATION, DOORS, WINDOWS AND ACCESSORIES AND FOUNDATION.
2. CONTRACTOR SHALL PROVIDE 8" CONCRETE FLOOR SLAB 19'x31'
3. METAL BUILDING SYSTEM SHALL BE PROVIDED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS SECTION 13 34 19 OF THE CONTRACT DOCUMENTS
4. CONTRACTOR SHALL PROVIDE STRUCTURAL CALCULATIONS PREPARED BY A LICENSED PROFESSIONAL ENGINEER IN WASHINGTON STATE.
5. CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS TO CONSTRUCT THE METAL BUILDING ON THE PROJECT SITE.

(X) CONSTRUCTION NOTES

1. 36" X 36" VINYL SLIDING WINDOWS.
2. 20' X 12' ROLLING STEEL DOOR W/ CHAIN LIFT. SEE SPECIFICATIONS.
3. 3'-0" X 6'-8" LH, INSWING SOLID CORE, PAINT GRADE STEEL PRE-HUNG DOOR.
4. 6" CONCRETE FLOOR SLAB W/ SMOOTH TROWEL FINISH.
5. PROVIDE EPOXY SEAL TO SURFACE OF CONCRETE SLAB.
6. STATIC VENTS 1' X 0.5'

DESIGNED BY: P. MAYE	DATE	NO.	DATE	REVISIONS
ENTERED BY: D. MAERTENS	10/26/26			DESCRIPTION
CHECKED BY: J. HNATISHIN	10/26/26			
PROJ. ENGR.: R. NELSON	10/26/26			
Plotted By: Dylan Maertens on 10/26/26 1:28 PM				
Saved By: Dylan Maertens on 10/14/26 11:52 AM				
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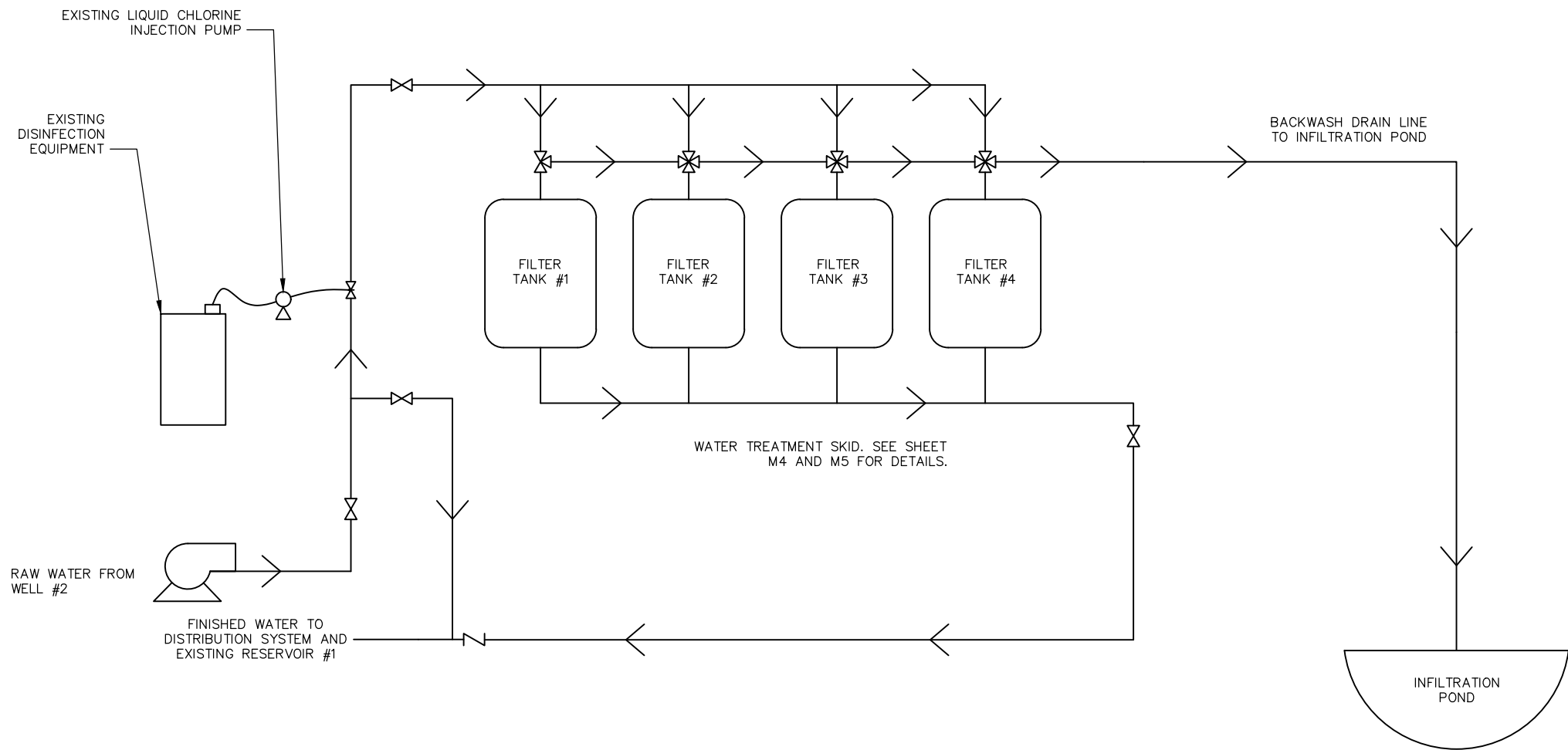
DRAWING SIZE: D (22X34) SCALE: 1"=10'

SKILLINGS

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WELL SITE 2, WATER SYSTEM IMPROVEMENTS		JOB NUMBER 23097-06 BID SET
MECHANICAL BUILDING LAYOUT		SHEET M1 OF 19 SHEETS



LEGEND:

SYMBOL	DESCRIPTION
	DISTRIBUTION PUMP
	SMALL PUMP
	4-WAY BACKWASH VALVE
	3-WAY BACKWASH VALVE
	INJECTION VALVE
	SWING CHECK VALVE
	GATE VALVE
	CHEMICAL INJECTION LINE
	FINISHED WATER LINE
	RAW WATER LINE

NOTES:

- THIS PROCESS AND INSTRUMENTATION DIAGRAM ONLY SHOWS THE SYSTEM UNDER PRODUCTION MODE.
- REFER TO ATEC'S OPERATIONS AND MAINTENANCE MANUAL FOR FURTHER GUIDANCE ON FILTER TANKS AND BACKWASH SYSTEM.
- DURING BACKWASH MODE THE FINISHED WATER LINE WILL BE A DUAL-USE LINE. IT WILL PROVIDE WATER TO THE STORAGE TANK AT A LOWER FLOWRATE AND SEND WATER TO THE ONE TANK IN BACKWASH MODE.

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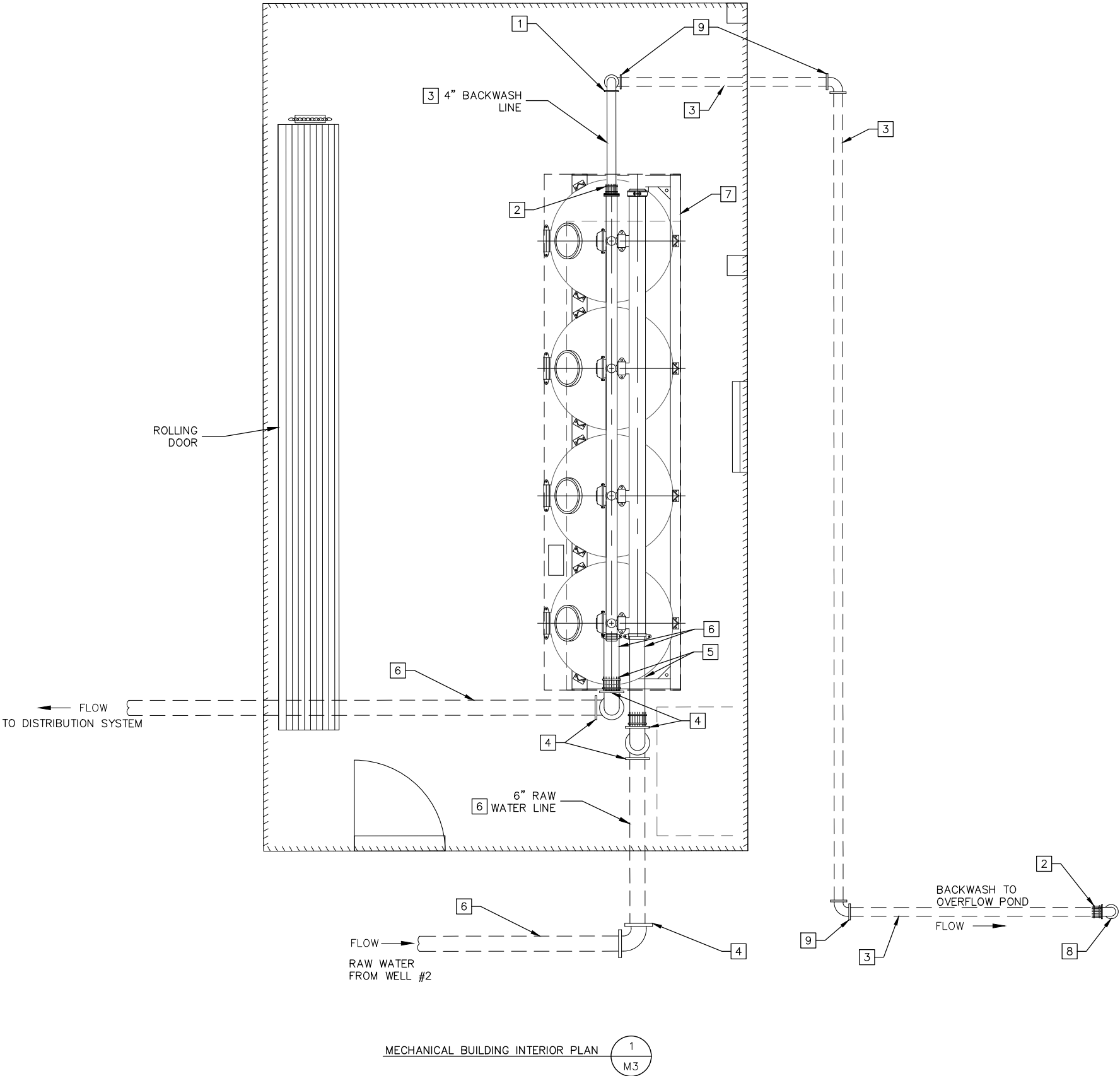
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WELL SITE 2, WATER SYSTEM IMPROVEMENTS		JOB NUMBER
MECHANICAL BUILDING PROCESS & BLOCK DIAGRAM		23097-06
		BID SET
		SHEET
		M2
		OF
		19
		SHEETS

SEC. 03 , T. 17N, R. 2, W.M.



- [X] PIPING NOTES:
1. 4" DI 90° VERT. BEND (FL)
 2. 4" FLANGE COUPLING ADAPTER
 3. 4" DI SPOOL (PE)
 4. 6" DI 90° VERT BEND (FL)
 5. 6" FLANGE COUPLING ADAPTER
 6. 6" DI SPOOL (PE)
 7. RAW WATER FILTRATION SKID (SEE SHEET M4 AND M5)
 8. 4" DI 22.5° VERT. BEND (FL)
 9. 4" DI 90° RESTRAINED JOINT (RjxRj)

MECHANICAL BUILDING INTERIOR PLAN 1 M3

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DRAWING SIZE: D (22X34) SCALE: 1"=1'

SKILLINGS

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City of Roy WASHINGTON

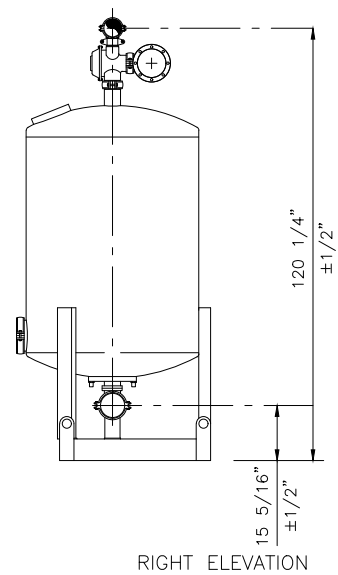
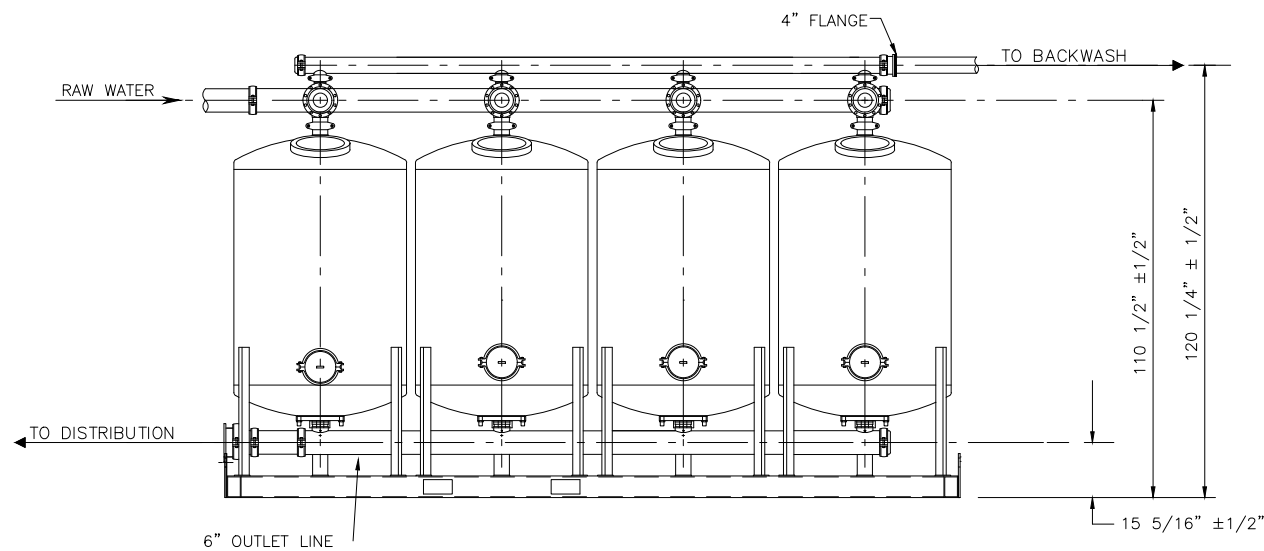
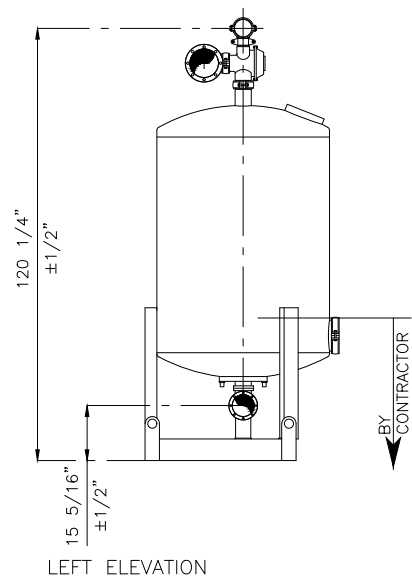
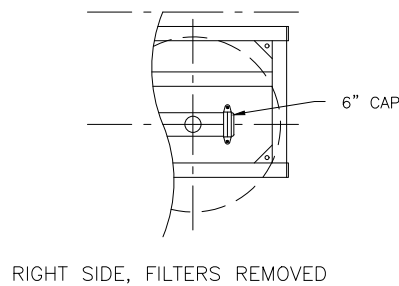
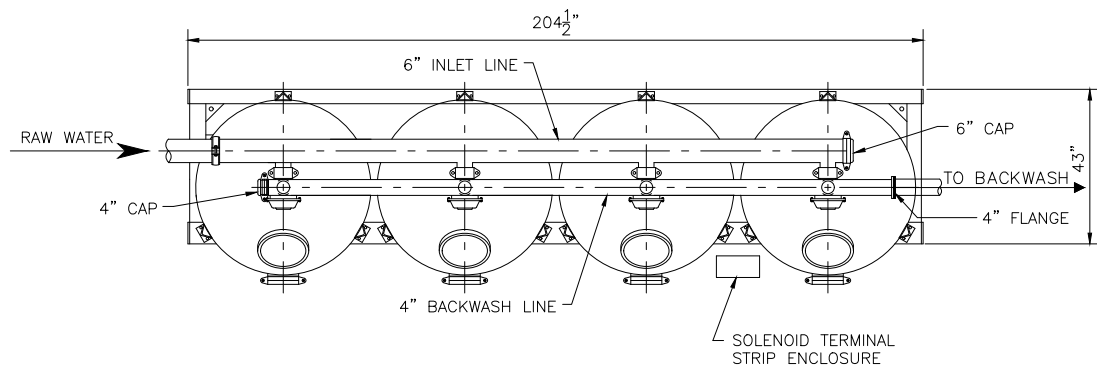
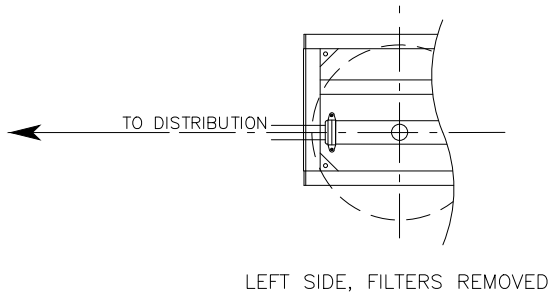
CITY OF ROY WA

WELL SITE 2, WATER SYSTEM IMPROVEMENTS

MECHANICAL BUILDING INTERIOR PLAN

JOB NUMBER 23097-06 BID SET

SHEET M3 OF 19 SHEETS



- NOTES:
- [A] THE TEN (10) FILTER SYSTEM IS DELIVERED ON (2) 5 FILTER SKIDS.
- [B] AIR RELIEF/VACUUM RELIEF VALVE WILL BE SUPPLIED FOR INSTALL ON 2" COUPLING ON INLET LINE.
- [C] SHADED PIPING BY CONTRACTOR.
- [D] FILTER PIPING CONNECTIONS WILL BE PROVIDED TO SUIT FIELD CONDITIONS.



ATEC WATER SYSTEMS, 1690 LANA WAY, BLDG A,
HOLLISTER CA, 95203, PHONE (831) 637-9264,
WWW.ATECWATER.COM

DESIGN BY: .
DRAWN BY: .
CHECKED BY: .
APRD BY: .

NO.

DATE

BY

APVD

MODEL 04-60-48
48 - INCH DIA VESSELS
ATEC TREATMENT SYSTEM

FILTER PLAN AND PROFILES

SHEET NO. 1 of 2
DWG. NO.
DATE: 1-4-2013
FILE:
Standard 10 - Filter 48

DESIGNED BY: P. MAYE	DATE	NO.	DATE	REVISIONS
ENTERED BY: D. MAERTENS	10/26/26			DESCRIPTION
CHECKED BY: J. HNATISHIN	10/26/26			
PROJ. ENGR.: R. NELSON	10/26/26			
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Saved By: DylanMaertens on 10/22/26 5:20 PM				
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DRAWING SIZE: D (22X34) SCALE: 1"=1'

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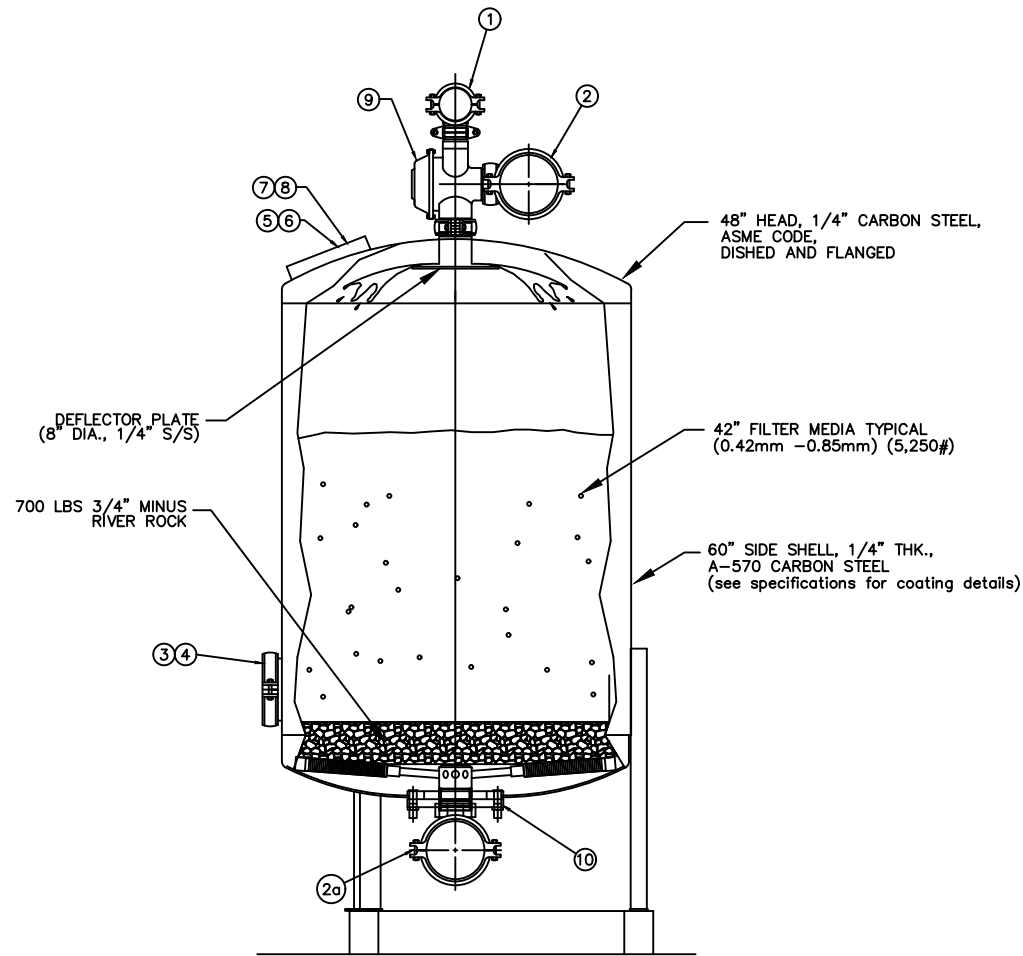


WELL SITE 2, WATER SYSTEM
IMPROVEMENTS

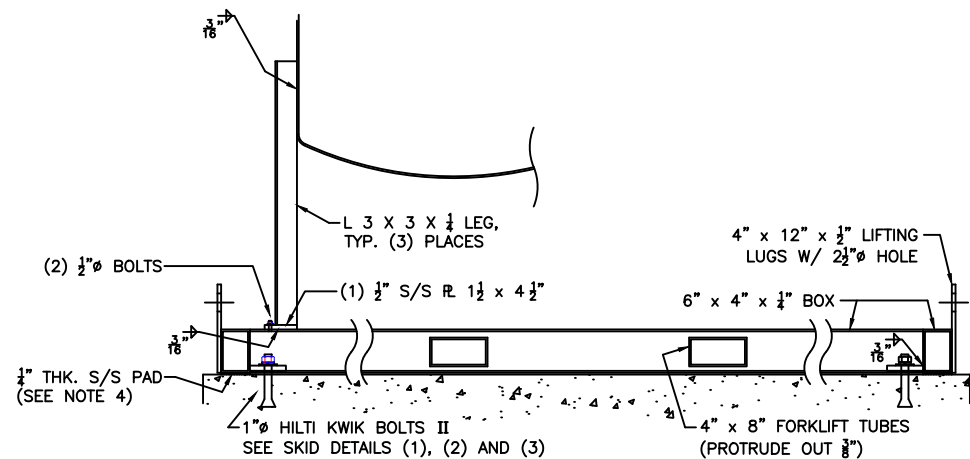
ATEC FILTERS DRAWING 1

JOB NUMBER
23097-06
BID SET

SHEET
M4
OF
19
SHEETS



TANK SECTION



SECTION A-A (TYPICAL)

BILL OF MATERIAL			
ITEM	QTY	PART NO.	DESCRIPTION
1	1	PFS-CPL03	4" GROOVED COUPLING, CAST IRON W/ BOLTS & GASKET
2	3	PFS-CPL04	6" GROOVED COUPLING, CAST IRON W/ BOLTS & GASKET
3	1	PFS-CAPO8	8" GROOVED END CAP
4	1	PFS-CPL08	8" GROOVED COUPLING, CAST IRON W/ BOLTS & NUTS
5	1	PFS=HHP11	11"x15" HAND HOLE PLATE
6	1	PFS-HHG11	11"x15" HAND HOLE GASKET
7	1	PFS-HHGS11	11"x15" HAND HOLE BOLT SET
8	1	PFS=HHC11	11"x15" HAND HOLE HOLD DOWN CRAB
9	1	V-BF4	4"x4"x3" SERIES 350 BERMAD BACKWASH VALVE
10	1	UA SS48	UNDER-DRAIN ASSEMBLY 316L SS W/ SCH 80 PVC CAP COMPLETE

NOTE: QUANTITIES FOR ONE (1) TANK



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HOLLISTER CA, 95203, PHONE (831) 637-9264,
WWW.ATECWATER.COM

DESIGN BY:

DRAWN BY:

CHECKED BY:

APRD BY:

NO.

DATE

BY

APVD

42 - INCH DIA VESSELS
ATEC TREATMENT SYSTEM

FILTER PLAN AND PROFILES

SHEET NO. 2 of 2
DWG. NO.
DATE: 1-4-2013
FILE:
Standard 5 - Filter 42

DESIGNED BY:	DATE	NO.	DATE	REVISIONS
ENTERED BY: D. MAERTENS	10/26/26			DESCRIPTION
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DRAWING SIZE: D (22X34) SCALE: 1"=1'

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City of Roy
WASHINGTON

CITY OF ROY WA

WELL SITE 2, WATER SYSTEM
IMPROVEMENTS

ATEC FILTERS DRAWING 2

JOB NUMBER
23097-06
BID SET

SHEET
M5
OF
19
SHEETS

ABBREVIATIONS	
(SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS)	
ABBREV	DESCRIPTION
A or AMP	AMPERES
AIC	AMPERE INTERRUPTING CAPACITY
ARCH	ARCHITECTURAL
ARMS	ARC REDUCTION MAINTENANCE SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CSBC	CRUSHED SURFACE BASE COURSE
CSTC	CRUSHED SURFACE TOP COURSE
CT	CURRENT TRANSFORMER
CU	COPPER
DIA	DIAMETER
DIV	DIVISION
DRC	DIGITAL ROOM CONTROLLER
DWG	DRAWING
ELEC	ELECTRIC
EMT	ELECTRICAL METALLIC TUBING
(E) or EXST	EXISTING
FA	FIRE ALARM
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE CONDUIT
G or GND	GROUND
HP	HORSEPOWER
HZ	HERTZ
J-BOX	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATTS
LTG	LIGHTING
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MCM or KCM	THOUSAND CIRCULAR MILS
MDP	MAIN DISTRIBUTION PANELBOARD
MDS	MAIN DISTRIBUTION SWITCHBOARD
MIN	MINIMUM
MOP or MOCp	MAXIMUM OVERCURRENT PROTECTION
N or NEUT	NEUTRAL
NTS	NOT TO SCALE
OFci	OWNER FURNISHED, CONTRACTOR INSTALLED
CFci	CONTRACTOR FURNISHED AND INSTALLED
ø or PH	PHASE
PNL	PANEL
RLA	RUNNING LOAD AMPS
RM	ROOM
SCA	SHORT CIRCUIT CURRENT AVAILABLE
SP	SINGLE POLE
STD	STANDARD
SW	SWITCH
SWBD	SWITCHBOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VA	VOLT AMPERES
W	WATTS
W/	WITH
WP	WEATHER PROOF
XFMR	TRANSFORMER

ELECTRICAL LEGEND					
(SOME SYMBOLS MAY NOT BE USED ON DRAWINGS)					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
DISTRIBUTION		POWER		LIGHTING CONTROL	
	PANELBOARD – SURFACE		DEVICE SUBSCRIPTS: (DUPLX RECEPTACLE SHOWN)		SWITCH SUBSCRIPTS: (TOGGLE SWITCH SHOWN)
	PANELBOARD – EXISTING (SURFACE PANEL SHOWN)		* COUNTER HEIGHT		2 DOUBLE POLE
	PANELBOARD – FLUSH		WC WATER COOLER		3 THREE WAY
	SWITCHBOARD OR MCC (DRAWN TO SCALE)		REF REFRIGERATOR		4 FOUR WAY
	DISCONNECT SWITCH		COP COPPER		D DIMMER
	FUSED DISCONNECT SWITCH		HWD HOT WATER DISPENSER		OS OCCUPANCY SENSOR
	MAGNETIC MOTOR STARTER OR OTHER MOTOR CONTROL DEVICE AS SCHEDULED		MWO MICROWAVE OVEN		K KEY OPERATED
	DRY TYPE TRANSFORMER		P PEDESTAL		LV LOW VOLTAGE
	CROSS LINES INDICATE NUMBER OF CONDUCTORS IF MORE THAN TWO WIRE CIRCUIT. LONG DENOTES NEUTRAL. DOT DENOTES GROUND. DOTTED HASH MARK INDICATES ISOLATED GROUND. CONDUIT IS 1/2" AND CONDUCTOR IS #12 AWG UNLESS OTHERWISE NOTED OR SCHEDULED. ONLY BRANCH CIRCUIT HOMERUNS ARE INDICATED WITH CONDUCTOR COUNT. SEE GENERAL ELECTRICAL NOTES.		WP WEATHERPROOF		LVM LOW VOLTAGE MASTER
	WIRING CONCEALED IN CEILING OR WALL		C CEILING		M MANUAL MOTOR STARTER
	WIRING CONCEALED UNDERGROUND OR BELOW FLOOR		DW DISHWASHER		W/OVERLOADS
	WIRING EXPOSED		IWB INTERACTIVE WHITE BOARD		MC MOMENTARY CONTACT
	WIRING HOMERUN		U W/2 USB CHARGER PORTS		P SWITCH W/PILOT LIGHT
	CONDUIT UP, DOWN		WF WIRELESS CONTROL (WIFI)		T TIMER
	FLEXIBLE WIRING CONNECTION		SINGLE RECEPTACLE (NEMA 5–20R)		WP WEATHERPROOF
LIGHTING			FOURPLEX RECEPTACLE (NEMA 5–20R)		abc MULTIGANG STATION
	LIGHTING OUTLET – CEILING MOUNT		GFCI DUPLEX RECEPTACLE (NEMA 5–20R)		
	LIGHTING OUTLET – WALL MOUNT		GFCI FOURPLEX RECEPTACLE (NEMA 5–20R)		\$ DIGITAL SWITCH STATION
	STRIP LUMINAIRE (LENGTH TO SCALE)		SPLIT WIRED RECEPTACLE, 1/2 OF RECEPTACLE IS CONTROLLED BY OCCUPANCY SENSOR OR TIME SWITCH		S SINGLE POLE TOGGLE SWITCH
	LUMINAIRE (TO SCALE ON DRAWINGS)		RECEPTACLE CONTROLLED BY OCCUPANCY SENSOR OR TIME SWITCH		OS OCCUPANCY SENSOR – CEILING MOUNT
	SURFACE FIXTURE – WALL		RECEPTACLE CONTROLLED BY OCCUPANCY SENSOR OR TIME SWITCH		OS OCCUPANCY SENSOR – WALL MOUNT
	RECESSED LAY-IN LUMINAIRE		SPLIT WIRED FOURPLEX (1) DUPLEX RECEPTACLE UNSWITCHED, (1) DUPLEX RECEPTACLE CONTROLLED BY OCCUPANCY SENSOR OR TIME SWITCH		D DAYLIGHT SENSOR (D = DUAL ZONE)
	RECESSED LAY-IN LUMINAIRE, CONFIRM ORENTATION WITH ARCHITECT PRIOR TO INSTALLATION				UL924 TRANSFER RELAY
	RECESSED FIXTURE – ROUND		RANGE RECEPTACLE (NEMA 14–50R)		r# LIGHTING RELAY #
	EXIT FIXTURE WITH BATTERY BACKUP – CEILING		DRYER RECEPTACLE (NEMA 14–30R)		FAC SYMBOL FOR FIRE ALARM CONTROL PANEL
	EXIT FIXTURE – WALL		SPECIAL PURPOSE OUTLET (AS NOTED)		RA REMOTE ANNUNCIATOR
	EXIT FIXTURE WITH DIRECTION ARROWS		JUNCTION BOX – CEILING OR EXPOSED		MANUAL STATION
	EMERGENCY FIXTURE – TWIN HEAD		JUNCTION BOX – WALL MOUNT		HORN [SPEAKER]
	LUMINAIRE WITH EMERGENCY CONNECTION AS INDICATED		BLANKED OUTLET – CEILING		HORN [SPEAKER] WITH VISUAL SIGNAL (STROBE)
	SUBSCRIPT BY FIXTURE INDICATES NIGHT LIGHT (ON CONTINUOUSLY)		FLOOR BOX		VS VISUAL SIGNAL (STROBE)
	POLE MOUNTED LIGHT		EQUIPMENT CONNECTION		H DETECTOR
	PHOTOCELL		SUBSCRIPT: WH WATER HEATER		SD SMOKE DETECTOR
	INDICATES SPLIT WIRED BALLASTS		HD HAND DRYER		D HVAC DETECTOR IN HVAC DUCT
REMODEL			WD WASTE DISPOSER		MD MAGNETIC DOOR HOLDER
	HEAVY LINE WEIGHT = NEW WORK (2 X 4 LAY-IN SHOWN)		TELEVISION STATION		CALLOUTS
	STANDARD LINE WEIGHT = EXISTING TO REMAIN (RECEPTACLE SHOWN)		(1) POWER OUTLET – NEMA 5–20R DUPLEX		FEEDER CALLOUT X–Y–Z. SEE SCHEDULE.
	CROSS HATCH LINE WORK = ELECTRICAL DEMOLITION (RECEPTACLE SHOWN)		(1) SIGNAL OUTLET – TV WALL TAP DATA OUTLET WITH JACK		DEVICE SIZE / FUSE OR TRIP RATING – No. OF POLES
	BROKEN LINE WORK = ELECTRICAL DEMOLITION (RECEPTACLE SHOWN)		TELECOMMUNICATIONS TERMINAL BOARD		FIXTURE SYMBOL
	STANDARD LINE WEIGHT WITH (N) = EXISTING TO BE REPLACED OR MODIFIED (SEE REMODEL NOTES) (RECEPTACLE SHOWN)		DATA (COMPUTER) OUTLET WITH JACK		BUBBLE NOTE TAG SYMBOL: # – IDENTIFYING NUMBER
			VOICE (TELEPHONE) OUTLET WITH JACK		DRAWING REVISION SYMBOL: # – IDENTIFYING NUMBER
			# INDICATES QUANTITY OF VOICE / DATA JACKS IN A SINGLE OUTLET. PROVIDE 2 MINIMUM UNO.		SCHEDULED EQUIPMENT CONNECTION (INCLUDE ALL WIRING, DISCONNECTING MEANS, CONTROL AND OTHER REQUIREMENTS SCHEDULED)
			DRC DIGITAL ROOM CONTROLLER		DETAIL SYMBOL: (AS INDICATED ON DRAWINGS) # – IDENTIFYING NUMBER
			DPC DIGITAL PLUG CONTROLLER		B – SHEET WHERE DETAIL SHOWN
			WD WATT HOUR DEMAND METER		DETAIL SYMBOL: (AS INDICATED ON DRAWINGS) # – IDENTIFYING NUMBER
			U UTILITY COMPANY METER		B – SHEET WHERE DETAIL SHOWN
			M MULTI-FUNCTION CUSTOMER METER		

GENERAL ELECTRICAL NOTES:

- BRANCH CIRCUIT NOTES:
 - PROVIDE ALL WIRING REQUIRED FOR DEVICES, FIXTURES, AND EQUIPMENT INDICATED.
 - VERIFY BRANCH CIRCUIT WIRE COUNT BEFORE PULLING CONDUCTORS. PROVIDE REQUIRED CONDUCTORS TO EACH OUTLET AND DEVICE FOR PHASE, NEUTRAL AND EQUIPMENT GROUND BASED ON CIRCUIT DESIGNATIONS SHOWN AND AS OTHERWISE INDICATED ON PLANS OR NOTED BELOW.
 - MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE FOR OUTDOORS SHALL BE MINIMUM #10 AWG. PROVIDE LARGER SIZE FEEDER PER CODE WHERE EQUIPMENT MCA EXCEEDS 30 AMPS.
 - HOMERUNS LONGER THAN 75 FEET OF CONDUCTOR LENGTH TO THE FIRST DEVICE SHALL BE #10 AWG.
 - PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR BRANCH CIRCUITS SERVING RECEPTACLE OUTLETS UNLESS OTHERWISE INDICATED.
- MINIMUM CONDUIT SIZE FOR HOMERUNS AND FOR CONDUIT INSTALLED BELOW GRADE OUTDOORS SHALL BE 3/4 INCH.
- CONTRACTOR SHALL INSTALL ELECTRICAL CONDUIT AND WIRING STUB-UPS THROUGH THE CONCRETE FLOOR TO ALL DESIGNATED SITE LOCATIONS FOR EQUIPMENT AND UTILITIES INDICATED. COORDINATE WITH OTHER TRADES, STRUCTURAL AND ARCHITECTURAL ELEMENTS PRIOR TO SLAB POUR
- LIGHTING, POWER, AND MECHANICAL EQUIPMENT CONDUCTORS SHALL NOT BE COMBINED IN THE SAME RACEWAY UNLESS NOTED OTHERWISE.
- WHERE ROOM OCCUPANCY SENSORS ARE INDICATED, PROVIDE QUANTITY AND LOCATION OF DEVICES PER MANUFACTURER’S RECOMMENDATION FOR COMPLETE ROOM COVERAGE AND TO MINIMIZE FALSE ACTIVATION THRU OPEN DOORS.
- REFER TO ARCHITECTURAL PLANS FOR LIGHT FIXTURE LOCATIONS AND FOR MOUNTING HEIGHT OF SUSPENDED AND WALL MOUNTED LIGHT FIXTURES. REFER TO REFLECTED CEILING PLANS, INTERIOR ELEVATIONS, EXTERIOR ELEVATIONS, ROOM SECTIONS, AND DETAILS SHOWN ON ARCHITECTURAL CONTRACT DOCUMENTS PRIOR TO ROUGH-IN. REPORT CONFLICTS TO ARCHITECT/ENGINEER FOR RESOLUTION.
- VERIFY BACK BOX REQUIREMENTS OF EQUIPMENT FURNISHED UNDER OTHER THAN DIVISION 26 SECTIONS AND EQUIPMENT FURNISHED BY OWNER.
- SEAL RACEWAYS AND SLEEVES WHERE PASSING FROM BUILDING INTERIOR TO EXTERIOR OR TO COLD STORAGE LOCATIONS, AND WHERE SUBJECTED TO DIFFERENT TEMPERATURES BETWEEN LOCATIONS.

SHEET LIST TABLE	
SHEET NO.	SHEET TITLE
E1	LEGEND & NOTES – ELECTRICAL
E2	SITE PLAN – ELECTRICAL
E3	BUILDING PLAN – ELECTRICAL

HULTZ  BHU
engineers inc

1111 Fawcett Ave, Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257 Fax: (253) 383-3283
general@hultzbhu.com Job Number: 25-190

	DATE	REVISIONS		
		NO.	DATE	DESCRIPTION
DESIGNED BY: AD	10/22/26			
ENTERED BY: AD	10/22/26			
CHECKED BY: NM	10/22/26			
PROJ. ENGR.: CTU	10/22/26			



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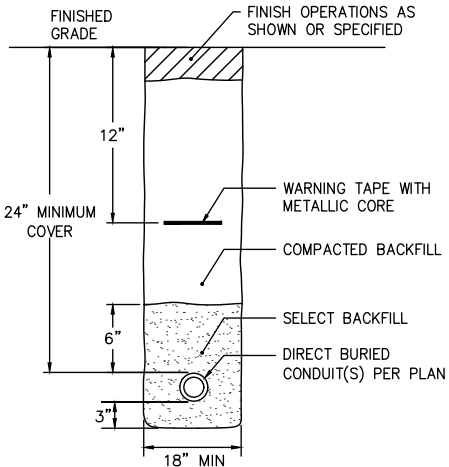
CITY OF ROY

WELL SITE 2, WATER SYSTEM IMPROVEMENTS

LEGEND & NOTES -
ELECTRICAL

JOB NUMBER
23097–06
BID SET
SHEET
E1
19
SHEETS

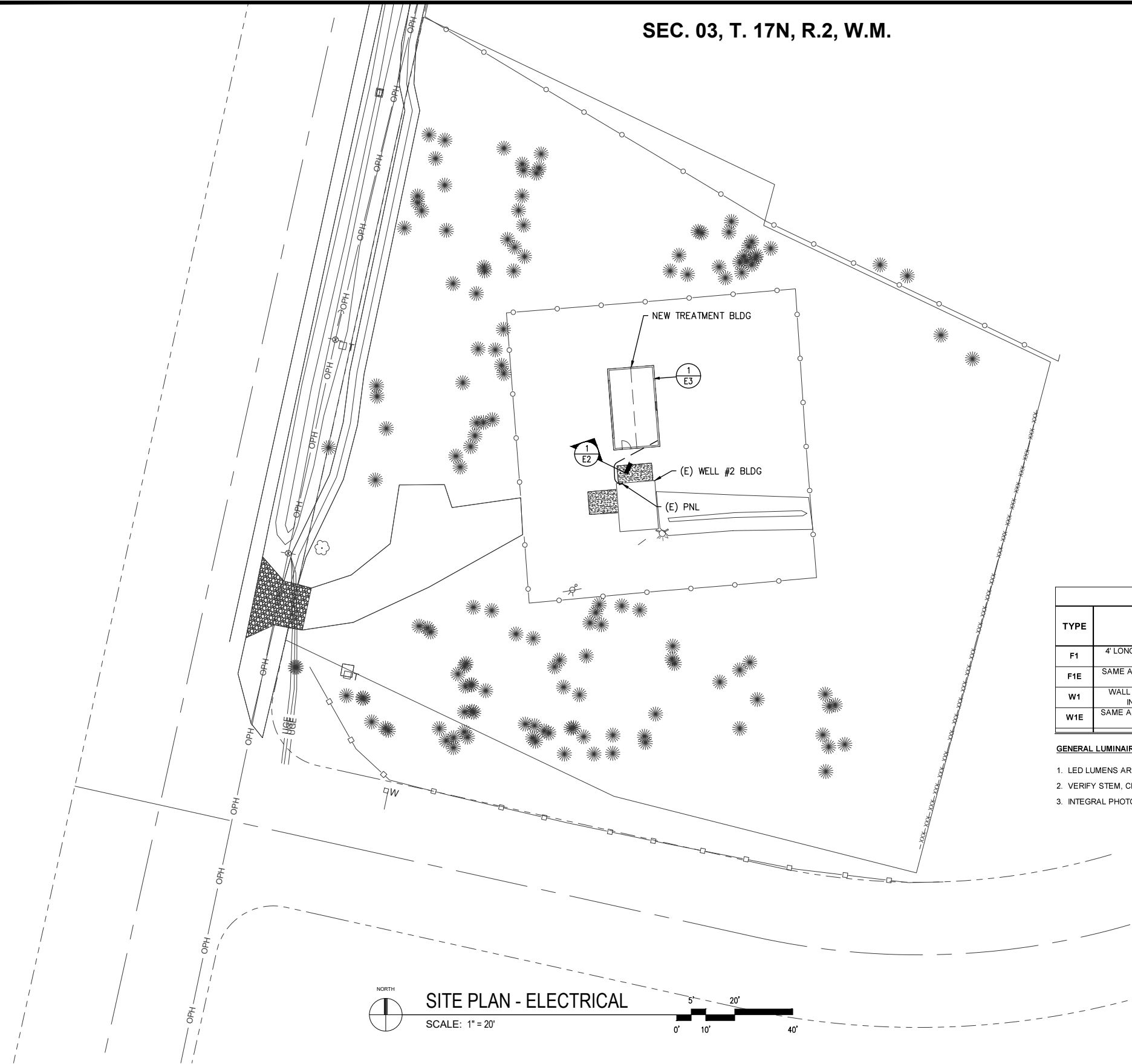
SEC. 03, T. 17N, R.2, W.M.



ELECTRICAL UTILITY TRENCH

SECTION - BELOW 600 VOLTS

SCALE: N.T.S.



LUMINAIRE SCHEDULE								
TYPE	DESCRIPTION	MANUFACTURER	ALTERNATE MANUFACTURER	LAMP (NOTE 1)	VOLTAGE	INPUT WATTS	BALLAST/ DRIVER	REMARKS
F1	4' LONG LED, NATAROIUM RATED, OPAL LENS.	LUMINAIRE LED VPF4	CERTOLUX VRSE-5	LED 4000K 5,000 LUMENS	120-277V	50W	0-10V	NOTE 2
F1E	SAME AS F1 FIXTURE EXCEPT WITH EM BATTERY	LUMINAIRE LED VPF4	CERTOLUX VRSE-5	LED 4000K 5,000 LUMENS	120-277V	50W	0-10V	
W1	WALL MOUNT, LED WALL PACK, INTEGRAL PHOTOCELL	LITHONIA WPX LED		LED 4000K 1550 LUMENS	120-277V	11W		
W1E	SAME AS W1 FIXTURE EXCEPT WITH EM BATTERY	LITHONIA WPX LED		LED 4000K 1550 LUMENS	120-277V	11W		

GENERAL LUMINAIRE SCHEDULE NOTES:

- LED LUMENS ARE BASED ON TOTAL ILLUMINATION OUTPUT OF THE LUMINAIRE UNLESS OTHERWISE INDICATED.
- VERIFY STEM, CHAIN, OR CABLE LENGTH WITH FIXTURE VENDOR AS REQUIRED TO ACCOMMODATE THE INDICATED MOUNTING HEIGHT MEASURED TO BOTTOM OF FIXTURE.
- INTEGRAL PHOTOCELL AND OCCUPANCY SENSOR SET TO DIM TO 30% WHEN UNOCCUPIED.



SITE PLAN - ELECTRICAL

SCALE: 1" = 20'



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DESIGNED BY: AD	DATE	NO.	DATE	REVISIONS
ENTERED BY: AD	10/22/26			DESCRIPTION
CHECKED BY: NM	10/22/26			
PROJ. ENGR.: CTU	10/22/26			



5016 Lacey Boulevard SE, Lacey, Washington 98503
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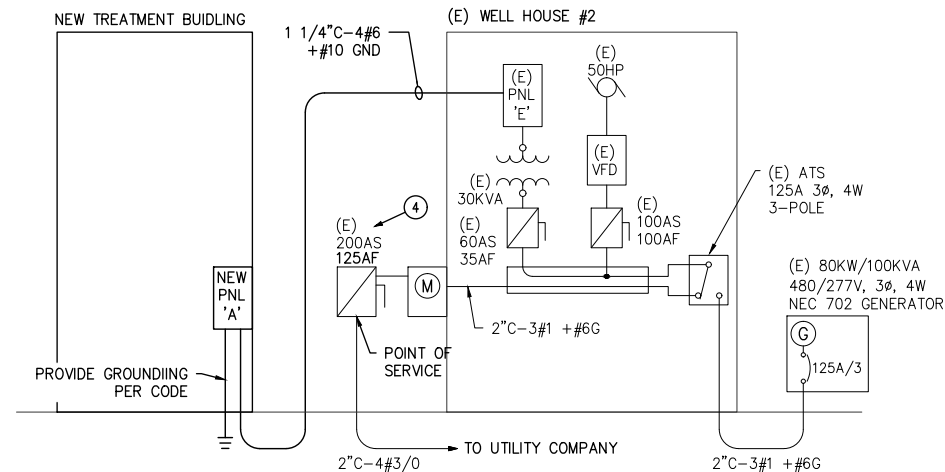
WA

WELL SITE 2, WATER SYSTEM IMPROVEMENTS

SITE PLAN - ELECTRICAL

JOB NUMBER
23097-06
BID SET
SHEET
E2
19
SHEETS

1. ALL FEEDERS ARE COPPER UNLESS NOTED OTHERWISE.
2. PROVIDE ADDITIONAL PULL BOXES AS REQUIRED.
3. SHORT CIRCUIT CURRENTS LESS THAN 10,000 SCA FOR 208V PANELS AND 14,000 SCA FOR 480V PANELS MAY NOT BE INDICATED.
4. THE ONE-LINE DIAGRAM IS DIAGRAMMATIC AND DOES NOT SHOW THE ACTUAL ROUTING OF THE RACEWAYS.



EXISTING		THREE PHASE PANEL SCHEDULE						
SERVICE		VOLTAGE: 480/277		4W		RATING: 200 A MAIN: DISCONNECT		
CODE	KVA			KVA		TOTAL LOAD	KVA	AMPS
LIGHTING	0.6	X	125%	0.8		CONNECTED	70.0	84.2
RECEPTACLES	1.3	X	100%	1.3		CALCULATED	85.1	102.4
RECEPTACLES OVER 10K		X	50%					
MOTORS		X	100%		NOTE *			
LARGEST MOTOR	59.8	X	125%	74.8				
NONCOINCIDENT		X	0%					
REMAINDER	8.3	X	100%	8.3				

EQUIPMENT CONNECTION SCHEDULE NOTES:

1. VERIFY VOLTAGE, PHASE, FLY/MCA OF EACH CONNECTION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. NOTIFY ARCHITECT/ENGINEER WHEN SCHEDULED SUPPLY WILL NOT MEET NEC REQUIREMENTS.
2. LOCATION OF OUTLETS, DISCONNECTS, CONTROL DEVICES, AND EQUIPMENT CONNECTIONS ARE DIAGRAMMATIC AND TO BE LOCATED IN FIELD BY THE CONTRACTOR AS APPROVED BY THE ENGINEER. UNLESS OTHERWISE INDICATED ON PLANS, INSTALL SCHEDULED DISCONNECTS AND CONTROL DEVICES IN SIGHT OF EQUIPMENT. ARRANGE WIRING AND EQUIPMENT TO AVOID INTERFERENCE WITH OTHER WORK AND TO MAXIMIZE ACCESSIBILITY FOR MAINTENANCE AND REPAIRS.
3. COORDINATE WITH THE OTHER INSTALLING CONTRACTORS TO ENSURE NEC REQUIRED ACCESS TO DISCONNECTS IS PROVIDED FOR EACH PIECE OF EQUIPMENT.
4. WIRING BETWEEN EQUIPMENT DISCONNECT AND POINT OF CONNECTION SHALL COMPLY WITH NEC BASED ON EQUIPMENT NAMEPLATE RATING EXCEPT MINIMUM BRANCH CIRCUIT RATING SHALL BE 20 AMPERES.
5. SIZE OF DISCONNECT SWITCH AND MOTOR STARTER SHALL BE SIZED TO COMPLY WITH NEC REQUIREMENTS. WHERE INDICATED MOTOR CONTROL IS NOT LOCATED IN SIGHT OF MOTOR AS DEFINED BY NEC, PROVIDE ADDITIONAL DISCONNECTING MEANS TO COMPLY WITH NEC 430.102.
6. WIRING SIZES ARE BASED ON 60 DEGREE C. FOR AMPACITIES 100 AMPERES AND LESS. FOR FEEDERS LESS THAN 100 FEET IN LENGTH, CONDUCTOR SIZES MAY BE SELECTED BASED ON 75 DEGREE C. WHERE EQUIPMENT INSTALLED IS LABELED FOR 75 DEGREE C. WIRING.

SCHEDULE LEGEND:

- = FURNISH AND INSTALL NEW UNDER DIVISION 26
- = INSTALL UNDER DIVISION 26; FURNISHED WITH EQUIPMENT OR BY OTHERS.
- x = FURNISH AND INSTALL BY OTHERS (NOT DIVISION 26)
- * = EXISTING, RELOCATED EQUIPMENT

1. ALL RECEPTACLES INSIDE WATER TREATMENT BUILDING SHALL BE INSTALLED AT +48" AFF AND BE GFCI PROTECTED.
2. ALL INTERIOR LIGHTING CIRCUITED TO PANEL A CIRCUIT NO. 3.
3. ALL EXTERIOR BUILDING LIGHTS CIRCUITED TO PANEL A CIRCUIT NO. 5.

- ① PROVIDE LOW VOLTAGE 7-DAY PROGRAMMABLE THERMOSTAT.
- ② PROVIDE UNIT HEATER WITH WALL MOUNTING BRACKET AND CONTROLS FOR REMOTE THERMOSTAT.
- ③ PROVIDE WIRING TO CONTROLLER AND FROM CONTROLLER TO SOLENOID VALVES. REFER TO PLUMBING PLANS.
- ④ REPLACE EXISTING FUSES WITH NEW.

NEW				THREE PHASE PANEL SCHEDULE											
A VOLTAGE: 208/120 4W <u>ENCLOSURE</u> FLUSH SECTION: 1 OF 1 LOCATION: TREATMENT BUILDING X SURFACE X NEMA TYPE 1 NEMA TYPE 3R NEMA TYPE 12				RATING: 60 A MAIN:				BREAKER SERVICE RATED <u>AIC ASSEMBLY</u> SERIES RATED X 10K 22K 42K							
				<u>ACCESSORIES</u> ISOLATED GROUND X SPD 200% NEUTRAL FEED THRU LUGS DOUBLE LUGS											
CODE	DESCRIPTION	*	VA	BKR	CKT	A	B	C	CKT	BKR	VA	*	DESCRIPTION	CODE	
L L	SPARE			20/1	1	360			2	20/1	360		REC - TREATMENT BUILDING	R	
	LTG - NEW TREATMENT BLDG		300	20/1	3		400		4	20/1	100		SOLENOID		
	LTG - BUILDING EXTERIOR		48	20/1	5			48	6	20/1			SPARE		
	SPACE				7	0			8	20/1			SPARE		
	SPACE				9		0		10	20/1			SPARE		
	SPACE				11			2500	12	30/2	2500		UH-1		
	SPACE				13	2500			14	-			-		
	SPACE				15		0		16				SPACE		
	SPACE				17			0	18				SPACE		
BREAKER CODE: A=AFCI, G=GFCI, N=SWITCHED NEUTRAL, S=SHUNT TRIP K=KEYED, P=PADLOCK ATTACHMENT							400	2548	VA		A				
									VA						
									VA						
						2860	400	2548	VA SUB-TOTAL						
L R	CODE		KVA		KVA				TOTAL LOAD		KVA	AMPS			
	LIGHTING		0.3	X	125%	0.4			CONNECTED		5.8	16.1			
	RECEPTACLES		0.4	X	100%	0.4			CALCULATED		5.9	16.4			
	RECEPTACLES OVER 10K			X	50%										
M	MOTORS			X	100%		NOTE *								
LM	LARGEST MOTOR			X	125%		1								
K	KITCHEN			X	100%										
N	NONCOINCIDENT			X	0%										
EV	REMAINDER		5.1	X	100%	5.1									
	EV CHARGER			X	125%										

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	DATE	REVISONS			 SKILLINGS 5016 Lacey Boulevard SE, Lacey, Washington 98503 (360) 491-3399 Fax (360) 491-3857	 CITY OF ROY WA	WELL SITE 2, WATER SYSTEM IMPROVEMENTS BUILDING PLAN - ELECTRICAL	JOB NUMBER
DESIGNED BY: AD	10/22/26	NO.	DATE	DESCRIPTION				23097-06
ENTERED BY: AD	10/22/26							BID SET
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PROJ. ENGR.: CTU	10/22/26							19 SHEETS