



APP

	Issued For Bid 01-2023
<b>JN 4</b>	UPGRADES
JNTY COMMIS	
charlotte Garrido - Distric	
atherine Walters - Di	strict #3
PROVED BY	
10-23 0	Ille
DATE	DAVE TUCKER ASST. DIRECTOR OF PUBLIC WORKS
9/23	
1100	JOE RUTAN
DATE	COUNTY ROADS ENGINEER
DATE	COUNTY ROADS ENGINEER
DATE PARED BY	COUNTY ROADS ENGINEER
PARED BY	BHC Consultants, LLC
PARED BY	
bhc	BHC Consultants, LLC 1601 Fifth Avenue, Suite 500 Seattle, Washington 98101 206.505.3400 206.505.3406 (fax)
bhc	BHC Consultants, LLC 1601 Fifth Avenue, Suite 500 Seattle, Washington 98101 206.505.3400 206.505.3406 (fax)
PARED BY	BHC Consultants, LLC 1601 Fifth Avenue, Suite 500 Seattle, Washington 98101 206.505.3400 206.505.3406 (fax) www.bhcconsultants.com

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GENERAL		SCH	EDULE (	C - PUMP STATION 4			
G-1	COVER AND MAPS	<u></u>			ELEC	TRICAL	
2 G-2	INDEX OF DRAWINGS	DEM	OLITION		87	E-1C	ELECTRICAL SYN
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10 C-5	AIR/VACUUM VALVE VAULT DETAILS	43	C-5C	CONTROL BUILDING PIPING ROOM AND WET WELL SECTIONS 2 OF 3	97	E-11C	SCHEMATIC DIAC
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2 C-7	CIVIL DETAILS 2 OF 4	45	C-7C	WET WELL/DRY WELL TOP SLAB AND CHANNELING PLANS	99	E-13C	SCHEMATIC DIAG
13 C-8	CIVIL DETAILS 3 OF 4	46	C-8C	GRADING AND DRAINAGE PLAN	100	E-14C	SCHEMATIC DIAG
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DEMOLITIO	N AND TESC	50	A-3C	CONTROL BUILDING ELECTRICAL ROOM FLOOR PLAN	106	E-20C	TELEMETRY CON
15 D-1A	A BUCKLIN HILL RD DEMOLITION AND TESC PLAN STA 21+00 TO 28+00	51	A-4C	CONTROL BUILDING ROOF PLAN	107	E-21C	
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7 C-1/		55	A-8C	CONTROL BUILDING ARCHITECTURAL SECTIONS 2 OF 2	112	E-25C E-26C	ELECTRICAL DET
8 C-24		56	A-9C	TYPICAL ARCHITECTURAL EXTERIOR DETAILS	112	E-20C E-27C	ELECTRICAL DET
19 C-34		57	A-10C	TYPICAL DOOR AND LOUVER DETAILS	113	E-27C E-28C	LOAD CALCULAT
0 C-44		58	A-11C	STAIR DETAILS	114	E-28C E-29C	ELECTRICAL SCH
21 C-54	A BUCKLIN HILL RD PLAN AND PROFILE STA 32+50 TO 37+00				115	E-30C	ELECTRICAL SCH
			UCTURAL		117	E-31C	HAZARDOUS ARE
ESTORAT		59	S-1C	STRUCTURAL GENERAL NOTES 1 OF 2	118	E-31C	SIGNAL CIRCUIT
2 R-1/		60	S-2C	STRUCTURAL GENERAL NOTES 2 OF 2	110	L-320	SIGNAL CINCOLL
23 R-24	A BUCKLIN HILL RD RESTORATION PLAN STA 28+00 TO 37+00	61	S-3C	STRUCTURAL ABBREVIATIONS			
		62	S-4C	CONTROL BUILDING PIPING ROOM FLOOR AND FOUNDATION PLAN			
	ONTROL STRATEGY	63	S-5C	CONTROL BUILDING ELECTRICAL ROOM AND WET WELL TOP SLAB FRAMING PLAN			
24 TC-1		64	S-6C	CONTROL BUILDING ROOF FRAMING PLAN			
25 TC-2	2A TRAFFIC CONTROL PLANS NW BUCKLIN HILL RD	65	S-7C	CONTROL BUILDING SECTIONS 1 OF 3			
		66	S-8C	CONTROL BUILDING SECTIONS 2 OF 3			
		67	S-9C	CONTROL BUILDING SECTIONS 3 OF 3			
SCHEDUL	E B - OLD TOWN SILVERDALE	68	S-10C	TYPICAL CONCRETE DETAILS 1 OF 6			
		69	S-11C	TYPICAL CONCRETE DETAILS 2 OF 6			
	N AND TESC	70 71	S-12C S-13C	TYPICAL CONCRETE DETAILS 3 OF 6 TYPICAL CONCRETE DETAILS 4 OF 6			
26 D-1E		72	S-13C S-14C	TYPICAL CONCRETE DETAILS 5 OF 6			
27 D-2E	3 McCONNELL AVE NW DEMOLITION AND TESC PLAN STA 60+00 TO 66+50						
		73 74	S-15C S-16C	TYPICAL CONCRETE DETAILS 6 OF 6 TYPICAL MASONRY DETAILS 1 OF 2			
		74 75	S-10C S-17C	TYPICAL MASONRY DETAILS FOF 2			
28 C-1E		75	S-17C	TYPICAL STAIR DETAILS			
29 C-2E		70	S-18C	TYPICAL DETAILS			
30 C-3E		78	S-19C	PUMP GUIDE RAIL LATERAL SUPPORT CONNECTIONS			
31 C-4E	3 McCONNELL AVE NW PLAN AND PROFILE STA 64+50 TO STA 66+50	10	0-200				
	ION DETAILS	HVAG					
32 R-1E		79	H-0C	CONTROL BUILDING HVAC LEGEND, ABBREVIATIONS, AND GENERAL NOTES			
33 R-2E	McCONNELL AVE NW RESTORATION PLAN STA 60+00 TO 66+00	80	H-1C	CONTROL BUILDING HVAC SCHEDULES AND DETAILS			
		81	H-2C	CONTROL BUILDING ELECTRICAL ROOM AND WET WELL PLAN HVAC			
	ONTROL STRATEGY	82	H-3C	CONTROL BUILDING PIPING ROOM AND WET WELL PLAN - HVAC			
34 TC-1							
35 TC-2	2B TRAFFIC CONTROL PLANS MCCONNEL AVE NW	-	MBING				
		83	P-0C	CONTROL BUILDING PLUMBING LEGEND, ABBREVIATIONS, AND GENERAL NOTES			
		84	P-1C	CONTROL BUILDING PLUMBING SCHEDULES AND DETAILS			
		85	P-2C	CONTROL BUILDING ELECTRICAL ROOM AND WET WELL PLAN - PLUMBING			
		86	P-3C	CONTROL BUILDING PIPING ROOM AND WET WELL PLAN - PLUMBING			

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BHC Consultants, LLC 1601 Fifth Avenue, Suite 500 Seattle, Washington 98101

CONSULTANTS 206.505.3400 206.505.3406 (fax) www.bhcconsultants.com

Designed: T. Fisher, P.E. Drawn: P. Simon Checked: R. Dorn, P.E.

Scale

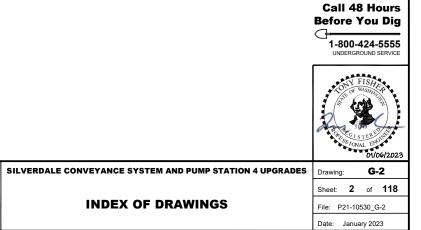




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YMBOLS AND ABBREVIATIONS ITE PLAN LDING ELECTRICAL ROOM LIGHTS AND RECEPTACLE PLAN LDING PIPING ROOM LIGHTS AND RECEPTACLE PLAN LDING ELECTRICAL ROOM AND WET WELL PROCESS PLAN LDING ELECTRICAL ROOM AND WET WELL INSTRUMENTATION AND CONTROL PLAN GRAM AND LOAD CALCULATIONS TION AND SIGNALS RISER DIAGRAM L PANEL ELEVATIONS AGRAMS 1 OF 7 AGRAMS 2 OF 7 AGRAMS 3 OF 7 AGRAMS 4 OF 7 AGRAMS 5 OF 7 AGRAMS 6 OF 7 AGRAMS 7 OF 7 ETAILS DIAGRAMS ONTROL PANEL ELEVATIONS ONTROL PANEL SCHEMATIC DIAGRAM IONS RISER ONS D ELEVATIONS ETAILS 1 OF 4 ETAILS 2 OF 4 ETAILS 3 OF 4 ETAILS 4 OF 4 ATIONS AND SCHEDULES CHEDULES 1 OF 2 CHEDULES 2 OF 2 REA CLASSIFICATION IT SCHEDULE



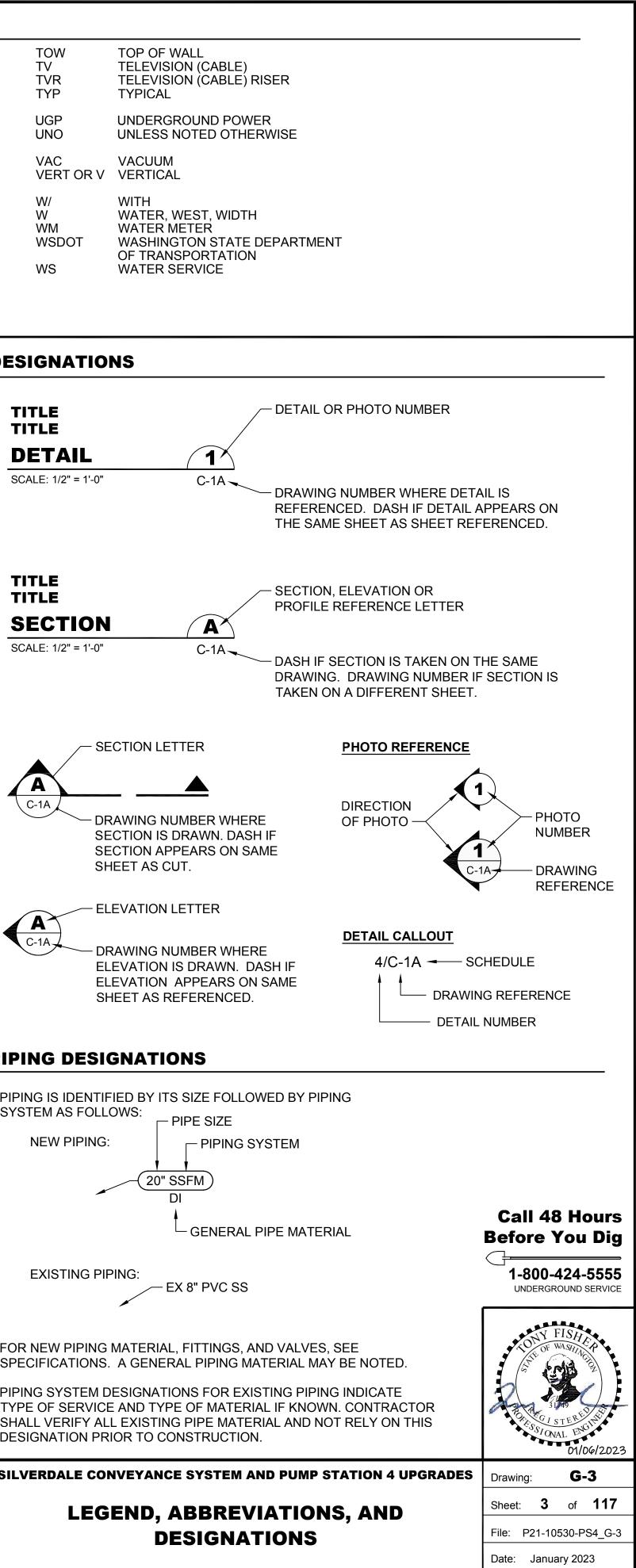
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# LEGEND

EXISTING			PRO	POSE	D		
	RIGHT OF WAY					TEMPORARY CONSTRUCTION EASEMENT	
	CENTERLINE					PROPOSED UTILITY EASEMENT	
	PROPERTY LINE		o	-00		CONSTRUCTION LIMIT DELINEATION FENCE	
	EASEMENT		/	//		FILTER FABRIC FENCE	
· ·	STREAM BUFFER				//	LIMITS OF CLEARING	
<b>•</b>	BENCHMARK						
0	SURVEY MONUMENT		• • • • • •	•••••	••••	WETLAND BUFFER BOUNDARY	
5	CONTOUR MAJOR			++ \$,	· / / / / .	TO BE REMOVED OR ABANDONED	
	CONTOUR MINOR					GEOTEXTILE	
84.3 ×	SPOT ELEVATION		>	<	X	CHAINLINK FENCE	
	DITCH, STREAM, EDGE OF WA	TER				SEWER FACILITY/PIPING	
	200' SHORELINE JURISDICTION	١			)	SANITARY SEWER MANHOLE OR STRUCTURE	Ξ
– · — · —OHW— · — · —	ORDINARY HIGH WATER MARK	K				SANITARY SEWER - GRAVITY	
SD	STORM DRAIN					SANITARY SEWER - FORCE MAIN	
W	WATER					WATER	
S	SANITARY SEWER - GRAVITY						
——————————————————————————————————————		AIN				STORM	
OP OP						ELECTRICAL	
—— BP — BP —				٥		CLEANOUT	
OT OT BT BT				V	)	VALVE BOX	
BCBC	BURIED TELEPHONE BURIED COMMUNICATIONS					CATCH BASIN	
— c — c — c —	BURIED GAS					CONCRETE THRUST BLOCK	
	EDGE OF GRAVEL			$\checkmark$	$\triangleleft$	FLANGE FITTING	
o o	FENCE			~ <sup></sup>		MECHANICAL JOINT FITTING (RESTRAINED FOR ALL PRESSURE PIPE)	
	HIGHWAY GUARDRAIL BORING			*	$\bigcirc$	FLEXIBLE COUPLING	
S	SANITARY SEWER MANHOLE					(RESTRAINED FOR ALL PRESSURE PIPE)	
SV	SEWER VALVE BOX				<b>`</b>	WIRE TRACER AND HAND HOLE	
	CATCH BASIN			C	)	CATCH BASIN INSERT	
$\bigcirc$	STORM MANHOLE					SLOPE (PROFILE)	
ф	STREET OR YARD LAMP			<		DIRECTION OF FLOW (PLAN)	
	JUNCTION BOX					HMA OVERLAY PAVEMENT (PLAN & SECTION)	)
-0-	UTILITY POLE					HMA TRENCH PATCH	
<del>(                                    </del>	POLE ANCHOR		+ + +	+ + + + + + + + +	+ + + + + + + + + + + + + + + + + + +	HMA FULL DEPTH REPLACEMENT	
	TELEPHONE PEDESTAL			<u> </u>		GRAVEL SURFACE (PLAN)	
	GAS METER			<u></u>		CAST-IN-PLACE CONCRETE	
⊞	WATER METER AND BOX			x	4		
$\bowtie$	WATER VALVE					PRECAST CONCRETE	
α	FIRE HYDRANT					FOUNDATION MATERIAL	
<u> </u>	SIGN					PIPE BEDDING	
0	POST					CSTC	
	MAILBOX			2072 2012		CSBC	
	ROCKERY					DRAIN MATERIAL	
S &	TREE					UNDISTURBED NATIVE	
	HEDGE, BRUSH LINE					TRENCH BACKFILL, SELECT BORROW	
	DENSE TREES					SAND	
	CONCRETE (PLAN)			م الأسري المدين المراجع - المحالية المحالية المحالية المحالية المحالية المحالية المحالية المحالية المحالية الم - محالية المحالية الم		GROUT	
	GRAVEL SURFACE (PLAN)						
	HMA (PLAN)		······ ·····	··········		CDF TOP SOIL	
				/////	/////		
						BHC Consultants 1601 Fifth Avenue, Suite	500
						CONSULTANTSDiffe Consultants1601 Fifth Avenue, Suite Seattle, Washington 9810206.505.3400 206.505.3406 (fax) www.bhcconsultants.com	J1
	•					206.505.3406 (fax)	

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ABBREVIA AASHTO		ASSOC. OF STATE	JB	JUNCTION BOX	
AASHTO	HIGHWAY TH	RANSPORTATION OFFICIALS	JL JB	JOINT	
AC AB		ONCRETE, ASBESTOS	KW	KILOWATT	
ACP		ONCRETE PAVEMENT	L	LENGTH OR METAL ANGLE	
ADDN ADS	ADDITION, A POLYETHYL	ENE PIPE	LB LF	POUND LINEAR FEET	
AFF AL	ABOVE FINIS	SHED FLOOR	LT	LEFT	
ld Pprox	ALDER APPROXIMA	TF	MAP MAX	MAPLE MAXIMUM	
PWA RCH	AMERICAN F	PUBLIC WORKS ASSOCIATION	MB MDD	MAIL BOX MAXIMUM DRY DENSITY	
VE	AVENUE		MFR	MANUFACTURER	
WWA		WATER WORKS ASSOCIATION	MH MIN	MANHOLE MINIMUM	
3LDG 3C	BUILDING BURIED CAE	BLE	MJ MON	MECHANICAL JOINT MONUMENT	
3F 3H	BLIND FLAN BORE HOLE		MW	MONITORING WELL	
BLT BM	BOLT BENCH MAR		N NAD	NORTH, NORTHING NORTH AMERICAN DATUM	
BMPS	BEST MANA	GÉMENT PRACTICES	NE	NORTHEAST	DE
SP	BLACK STEE		NG NGVD	NATURAL GAS NATIONAL GEODETIC VERTICAL DATUM	
B C	CATCH BASI CENTER TO	IN, CORNER BAR CENTER	NIC NO. OR #	NOT IN CONTRACT NUMBER	•
DF		ED DENSITY FILL	NPDES	NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM	-
	CUBIC FEET	· · · · · ·		NATIONAL PIPE THREAD	
=M HLK	CHAIN LINK	PER MINUTE	NPW NTS	NON-POTABLE WATER NOT TO SCALE	ę
P L, CL	CAST IN PLA CENTERLINE	Ξ	NW	NORTHWEST	
.R //P	CLEAR, CLE		OC OD	ON CENTER OUTSIDE DIAMETER	
MS		LE MESSAGE SIGN	OH OHW	OVERHEAD ORDINARY HIGH WATER	
	CONCRETE		OP	OVERHEAD POWER	-
ONSRT ONT	CONSTRUC CONTINUOU	IS	OPNG	OPENING	
PE PEP		ED POLYETHYLENE ED POLYETHYLENE PIPE	P PE	POWER PLAIN END, POLYETHYLENE	
PLG BC	COUPLING CRUSHED S		PG PK	PERFORMANCE GRADE POINT KNOWN	S
	BASE COUR	SE	PL PS	PLATE PUMP STATION	
STC	CRUSHED S TOP COURS		PSF	POUNDS PER SQUARE FOOT	
LV	CULVERT		PVC PVMT	PAVEMENT	
BH	DEPTH DIAMETER E	REAST HEIGHT	PWR	POWER	
A OR Ø	DUCTILE IRC		R RCP	RADIUS REINFORCED CONCRETE PIPE	
D	DUCTILE IRC		RD	ROAD, ROOF DRAIN	
S T	DISTANCE	ON PIPE SIZE	RED REINF	REDUCER REINFORCEMENT	
Ξ	DRIVE	NT OF ECOLOGY	REQ'D RET	REQUIRED RETAINING	
EE G	DECIDUOUS	TREE	RFCA	RESTRAINED FLANGED COUPLING ADAPTER	
-		ING, ELECTRICAL	RJ ROW, R/W	RESTRAINED JOINT	
	EACH		ROW, R/W RPBA	REDUCED PRESSURE BACKFLOW	4
ELEV C, ELECT		_	RPM	ASSEMBLY REVOLUTIONS PER MINUTE	
Ρ	EDGE OF PA EQUAL		RRC RT	RED REBAR AND CAP RIGHT	
C MT		ND SEDIMENT CONTROL	S	SOUTH, SLOPE, SEWER	
V	EACH WAY EXISTING		SCH SD	SCHEDULE STORM DRAIN	
~ =			SDMH SDR	STORM DRAIN MANHOLE STANDARD DIMENSION RATIO	_
	FINSHED FL		SE	SOUTHEAST	PIF
1	FLANGE FORCE MAIN		SERV SF	SILT FENCE, SQUARE FEET	PIF
ico P	FORCE MAIN	N CLEANOUT FORCED PLASTIC	SOC SPEC		SY
	FOOT, FEET		SQ SSFM	SQUARE SANITARY SEWER FORCE MAIN	
	GAS		SSMH	SEWER MANHOLE	
A ALV	GAUGE GALVANIZEI		SS SST		
Ξ	GROOVED E GRAVITY LA	ND	ST STA	STREET STATION	
5 PM	GUARD POS GALLONS PI	ят	STD STL	STANDARD STEEL	
RAV	GRAVEL		STRUCT	STRUCTURAL	
SP V	GALVANIZEI GATE VALVE	D STEEL PIPE	SW SWPPP		
DPE	HIGH DENSI	TY POLYETHYLENE		PREVENTION PLAN	
MA DRIZ OR H	HOT MIX ASI HORIZONTA	PHALT	T TBM	TELEPHONE TEMPORARY BENCHMARK	
Р	HIGH POINT	, HORSEPOWER	T&B	TOP AND BOTTOM	FC SF
Г YD	HUB AND TA HYDRANT	NUN, HEIGHI	TDH TELJB	TOTAL DYNAMIC HEAD TELEPHONE JUNCTION BOX	_
	INSIDE DIAM		TELR TESC	TELEPHONE RISER TEMPORARY EROSION AND	PIF TY
OR "	INVERT ELE' INCH	VATION	TOC	SEDIMENT CONTROL TOP OF CONCRETE	SF
	IRON PIPE S	IZE			
signed: T. Fis	her, P.E.	Scale:	AP COUNTY		SIL
		N/A		itsap County Public Works	
wn: P. Sin	non	One Inch at Full Scale	100	4 Division Street, MS 26 ort Orchard, WA 98366	
necked: R. Do	rn, P.E.	If Not One Inch Scale Accordingly	SHINGTON		
-			5-335V		



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### **GENERAL NOTES**

- 1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2022 EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (REFERRED TO HEREIN AS THE STANDARD SPECIFICATIONS) PREPARED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE WASHINGTON STATE CHAPTER OF THE APWA; KITSAP COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD FOR SANITARY SEWER EXTENSIONS; AND KITSAP COUNTY'S ROAD STANDARDS AND SPECIFICATIONS, AS SUPPLEMENTED BY THE DRAWINGS AND CONTRACT DOCUMENTS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND 2. IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 3. THE CONTRACTOR SHALL EMPLOY THE PROPER STANDARD OF CARE FOR ALL WORK AROUND EXISTING OVERHEAD AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE ONE CALL AT 1-800-424-5555, KITSAP COUNTY PUBLIC WORKS AT (360) 337-5777 AND THE WSDOT, A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.
- 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THE APPROVED CONSTRUCTION PLANS ON THE CONSTRUCTION SITE AT ALL TIMES.
- 5. ALL PIPING SHALL BE CLEANED AND TESTED PRIOR TO PAVING IN CONFORMANCE WITH THE SPECIFICATIONS.
- 6. PRIOR TO BACKFILL. ALL PIPES AND APPURTENANCES SHALL BE INSPECTED BY THE COUNTY. INSPECTION SHALL NOT RELIEVE THE CONTRACTOR OF CORRECTION OF ANY DEFICIENCIES AND/OR FAILURES AS DETERMINED BY SUBSEQUENT TESTING AND INSPECTION.
- 7. CONTRACTOR SHALL COORDINATE WITH THE COUNTY CONSTRUCTION MANAGER REGARDING TEMPORARY CONSTRUCTION EASEMENTS PRIOR TO CONSTRUCTION ON EASEMENTS.
- 8. CONTRACTOR SHALL DEVELOP A SANITARY SEWER TEMPORARY BYPASS PLAN PRIOR TO DISRUPTING ANY LIVE SEWERS, INCLUDING MAIN LINES, FORCE MAINS, OR SIDE SEWERS. PLAN SHALL ADDRESS COUNTY COORDINATION NEEDS. SUBMIT PLAN TO THE COUNTY CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO CONSTRUCTION.
- PHYSICAL CONNECTIONS TO THE EXISTING SEWER SYSTEM SHALL NOT BE 9 MADE UNTIL AUTHORIZED BY THE COUNTY CONSTRUCTION MANAGER. SUCH AUTHORIZATION WILL NOT BE GIVEN UNTIL THE CONTRACTOR HAS SATISFIED THE COUNTY CONSTRUCTION MANAGER THAT THE NEW GRAVITY SEWER OR FORCE MAIN IS READY TO BE PLACED INTO SERVICE.
- 10. CONTRACTOR SHALL DEVELOP A WATER LINE TEMPORARY BYPASS PLAN PRIOR TO DISRUPTING ANY LIVE WATER LINES, INCLUDING MAIN LINES OR WATER SERVICE LINES. PLAN SHALL ADDRESS WATER PURVEYOR AND PROPERTY OWNER COORDINATION. SUBMIT PLAN TO THE COUNTY CONSTRUCTION MANAGER FOR APPROVAL PRIOR TO CONSTRUCTION.
- 11. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR VERIFYING ACCURACY OF ALL UTILITY LOCATIONS SHOWN ON DRAWINGS AND TO FURTHER DISCOVER AND AVOID ALL UTILITIES, SHOWN OR NOT SHOWN, THAT MAY BE IMPACTED BY THE CONTRACTOR'S WORK.
- 12. CONTRACTOR SHALL ADJUST ALL MAINTENANCE HOLE RIMS. DRAINAGE STRUCTURES, LIDS, VALVE BOXES, UTILITY ACCESS STRUCTURES, AND MONUMENT COVERS TO FINISH GRADE WITHIN AREAS AFFECTED BY THE CONTRACTOR'S WORK.
- 13. LIFT STATION 4 SHALL HAVE TWO POWER SOURCES AT ALL TIMES -- UTILITY POWER AND TEMPORARY OR PERMANENT GENERATOR POWER. THE PRIMARY POWER SOURCE AT NIGHT -- 5 PM TO 7 AM -- SHALL BE UTILITY POWER.
- 14. THE OWNER'S TELEMETRY SYSTEM MUST BE OPERATIONAL AT ALL TIMES.
- 15. CONTRACTOR SHALL RE-ESTABLISH ALL DISTURBED SURVEYING MARKERS OR MONUMENTS USING A LICENSED LAND SURVEYOR IN ACCORDANCE WITH THE SPECIFICATIONS AND GOVERNING REGULATIONS.
- 16. NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE WASHINGTON STATE DEPARTMENT OF ECOLOGY.
- 17. CONTRACTOR SHALL BALANCE ALL HVAC SYSTEMS IN ACCORDANCE WITH THE WASHINGTON STATE ENERGY CODE, GENERALLY ACCEPTED ENGINEERING STANDARDS, AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 18. PROVIDE CONTROLS IN COMPLIANCE WITH THE WASHINGTON STATE ENERGY CODE, AND THE CONTRACT DOCUMENTS.

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# **EROSION AND SEDIMENT CONTROL NOTES**

- STORMWATER GENERAL PERMIT REQUIREMENTS.
- ACCOMPLISHED.
- THE COUNTY CONSTRUCTION MANAGER.
- 4 COMPLETED AND ACCEPTED BY THE OWNER.
- CONTRACTOR'S SWPPP.
- DISCHARGE FROM THE PROJECT SITE.
- 8.
- THE EXISTING GRADE AND SEEDED.
- MEASURES.
- AS NECESSARY.
- BY SWEEPING.



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THE OWNER HAS PREPARED A DRAFT SWPPP. CONTRACTOR MAY MODIFY THE DRAFT SWPPP INCLUDED AS AN APPENDIX TO THE SPECIFICATIONS TO ADDRESS THE CONTRACTOR'S MEANS AND METHODS OR PREPARE A NEW SWPPP AS REQUIRED BY THE PERMIT. THE CONTRACTOR SHALL THEN BE RESPONSIBLE FOR OBTAINING COVERAGE UNDER DOE'S CONSTRUCTION STORMWATER GENERAL PERMIT AND SHALL FOLLOW ALL CONSTRUCTION

2. DISTURBED AREAS SHALL BE STABILIZED WITH TESC BEST MANAGEMENT PRACTICES. CONTRACTOR SHALL PREVENT EROSION OR SEDIMENT TRANSPORT IN ALL DISTURBED AREAS UNTIL FINAL RESTORATION HAS BEEN

3. FINAL RESTORATION SHALL NOT LAG MORE THAN 2,000 FEET BEHIND THE FINAL TRENCHING OPERATION OR MORE THAN TWO WEEKS BEYOND SUCCESSFUL TESTING OF THE PIPELINE WITHOUT THE WRITTEN APPROVAL OF

CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR PREVENTING SILT AND DEBRIS LADEN RUNOFF FROM LEAVING THE PROJECT SITE, ENTERING THE DRAINAGE SYSTEM, OR VIOLATING APPLICABLE WATER QUALITY STANDARDS. FAILURE BY THE CONTRACTOR TO PREVENT SILT OR DEBRIS LADEN RUNOFF OR SEDIMENT FROM BEING TRANSPORTED FROM THE PROJECT SITE MAY RESULT IN A FINE. THE DESIGNATED CONTACT PERSON SHALL BE AVAILABLE BY TELEPHONE ON A 24 HOUR PER DAY BASIS THROUGHOUT CONSTRUCTION AND UNTIL THE PROJECT HAS BEEN

5. TESC MEASURES SHOWN ON THE PLANS AND IDENTIFIED IN THE CONTRACTOR'S SWPPP ARE CONSIDERED BASIC REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION, ADDITIONAL PROVISIONS MAY BE NECESSARY TO MAINTAIN WATER QUALITY. MINOR DEPARTURES FROM THE TESC MEASURES SHOWN ON THE PLANS MAY BE PERMITTED SUBJECT TO THE APPROVAL OF THE COUNTY CONSTRUCTION MANAGER. HOWEVER, EXCEPT FOR EMERGENCY SITUATIONS, MAJOR DEVIATIONS MUST BE APPROVED BY THE ENGINEER. DOCUMENTATION AND RECORD KEEPING OF THESE ACTIVITIES SHALL BE IN ACCORDANCE WITH THE

TESC MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AS DEFINED IN THE SPECIFICATIONS AND IMMEDIATELY AFTER EACH RAINFALL, AND SHALL BE MAINTAINED AS NECESSARY TO INSURE THEIR CONTINUED FUNCTION. ALL SEDIMENT SHALL BE REMOVED FROM SILT FENCES, STRAW BALES, SEDIMENT PONDS, CATCH BASIN INSERTS, ETC. PRIOR TO THE SEDIMENT REACHING APPROXIMATELY ONE-HALF OF THE MAXIMUM POTENTIAL DEPTH.

7. AT NO TIME SHALL CONCRETE, CONCRETE BY-PRODUCTS, VEHICLE FLUIDS, PAINT, CHEMICALS, OR OTHER POLLUTING MATTER BE PERMITTED TO DISCHARGE TO THE TEMPORARY OR PERMANENT DRAINAGE SYSTEM OR TO

PERMANENT DETENTION/RETENTION PONDS, PIPES, TANKS, OR VAULTS MAY ONLY BE USED FOR SEDIMENT CONTAINMENT WHEN SPECIFICALLY INDICATED ON THESE PLANS OR OTHERWISE APPROVED BY THE OWNER.

9. SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE TESC MEASURES ARE NO LONGER REQUIRED, SHALL BE REMOVED OR DRESSED TO CONFORM TO

10. BARE EARTH AREAS WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 15 DAYS SHALL BE IMMEDIATELY STABILIZED WITH APPROVED TESC

11. TESC MEASURES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED

12. CONTRACTOR SHALL KEEP ALL PAVED SURFACES IN THE RIGHT OF WAY CLEAN

# CONSTRUCTION SCHEDULE CONSTRAINTS

- 1. CONTRACTOR SHALL ATTEND A PRECONSTRUCTION CONFERENCE PRIOR TO COMMENCING CONSTRUCTION.
- 2. TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO ANY GROUND DISTRIBUTING ACTIVITIES.
- 3. DURING BYPASS MODE, THE TEMPORARY PUMPING SYSTEM SHALL BE CONNECTED TO THE COUNTY'S TELEMETRY SYSTEM FOR ALL STATION STATUS AND ALARM INDICATIONS. ALARM INDICATIONS SHALL BE AS LISTED IN SECTION 406196 PROGRAMMING WASTEWATER PUMP STATIONS.
- 4. THE NEW SEWER SYSTEM SHALL NOT BE CONNECTED TO THE EXISTING SEWER SYSTEM UNTIL THE NEW SEWER SYSTEM HAS BEEN CLEANED AND SUCCESSFULLY PASSED THE PRESSURE TEST.
- 5. CLOSING ANY LANES OUTSIDE THE NORMAL WORK HOURS OR FOR MORE THAN 12 HOURS REQUIRES THE APPROVAL OF THE KITSAP COUNTY COUNCIL. THE APPROVAL PROCESS MAY TAKE 6 TO 8 WEEKS TO COMPLETE AND APPROVAL IS NOT GUARANTEED. THE CONTRACTING AGENCY SHALL NOT BE RESPONSIBLE FOR ANY DELAYS OR COSTS ASSOCIATED WITH THE CONTRACTOR'S REQUEST TO CLOSE ROADS OR LANES. SEE THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
- 6. THE CONTRACTOR IS NOTIFIED THAT UPGRADES TO THE COUNTY'S LIFT STATION 4, LOCATED AT THE INTERSECTION OF BUCKLIN HILL ROAD AND FREDRICKSON ROAD NW MAY BE OCCURRING SIMULTANEOUSLY WITH CONSTRUCTION OF THE PIPELINE UPGRADES ALONG THOSE SAME ROADS. THE CONTRACTOR SHALL COORDINATE HIS/HER WORK TO AVOID OR MINIMIZE CONFLICTS WITH THE PUMP STATION CONTRACTOR.
- 4. PUMP STATION MAY BE OPERATED ON GENERATOR POWER ONLY DURING WEEK DAYS FROM 7 AM TO 6 PM. GENERATORS SHALL BE NOISE ATTENUATED TO NOT EXCEED 70 DB AT 23 FEET. UTILITY POWER SHALL BE USED TO OPERATE THE STATIONS AT ALL TIMES OUTSIDE THOSE HOURS UNLESS APPROVED OTHERWISE BY THE COUNTY CONSTRUCTION MANAGER.

# **PUMP STATION 4 DESIGN CRITERIA**

PUMP TYPE PUMP MANUFACTURER FORCE MAIN DIAMETER

NO. OF PUMPS PUMP MODEL RATED CAPACITY, EACH PUMP RATED PUMP SPEED MOTOR HP. EACH PUMP MOTOR SPEED VOLTAGE/PHASES/HERTZ SPEED CONTROL FIRM PUMPING CAPACITY STANDBY DIESEL GENERATOR

SUBMERSIBLE FLYGT 20-INCH

3 (2-DUTY, 1-STANDBY) NP 3315 MT 3 ~458 3,665 GPM @ 113' TDH 1,185 RPM 140 HP 1,185 RPM 460/3/60 VFD 5,575 GPM @ 127' TDH 500 kW (PRE-PURCHASED BY OWNER)

a <b>nts, LLC</b> Suite 500 n 98101	Designed: T. Fisher, P.E.	Scale: N/A	Kitsap County Public Works
	Drawn: P. Simon	One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366
ts.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON WASHINGTON

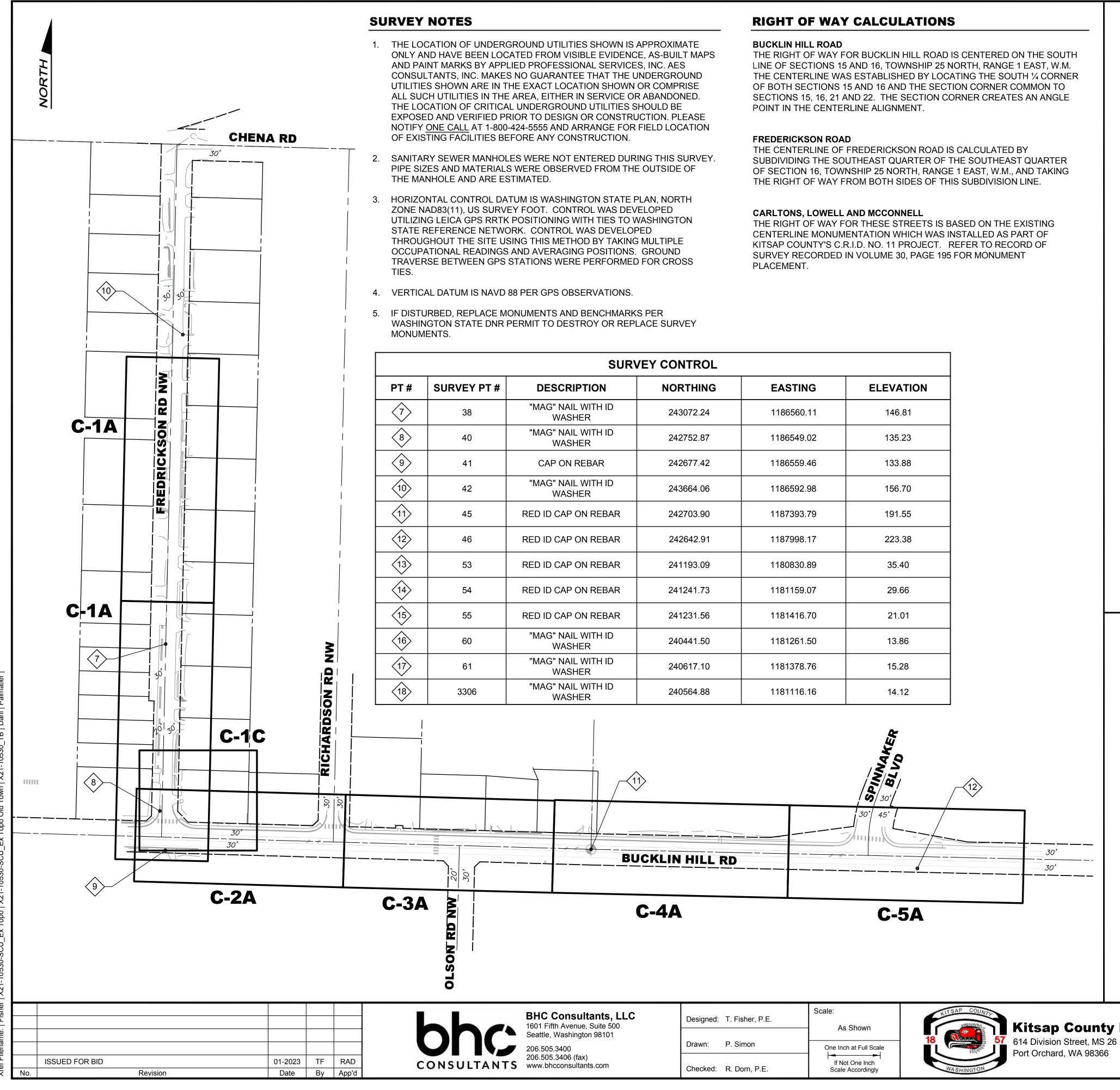
### CONCEPTUAL CONSTRUCTION SEQUENCE

### INSTALL TESC MEASURES.

- 2. INSTALL NEW SSFM WITHIN BUCKLIN HILL ROAD, INCLUDING THE BYPASS CONNECTION ONSITE.
- a. CONNECTIONS TO THE EXISTING SYSTEM SHALL BE MADE BETWEEN 12:30 A.M. AND 5:00 A.M.
- b. COUNTY CAN USE TANKER TRUCKS TO BYPASS FLOWS FOR ABOUT 3 TO 4 HOURS DURING THAT TIMEFRAME.
- 3. SETUP TEMPORARY CONTROL SYSTEM (TCS). CONNECT TCS TO EXISTING UTILITY POWER AND USE EXISTING RTU TO TRANSMIT THE FOLLOWING ALARM CONDITIONS.
  - UTILITY POWER LOSS.
  - HIGH WET WELL, LOW WET WELL.
  - PUMP FAIL, GENERATOR FAIL, VFD FAIL
  - PUMP 1 RUN, PUMP 2 RUN, PUMP 3 RUN.
- 4. RELOCATE EXISTING GENERATOR AND CONNECT TO TCS. NOTE TWO SOURCE OF POWER SUPPLY TO THE STATION SHALL BE PROVIDED AT ALL TIMES. THIS MAY REQUIRE A TEMPORARY DIESEL PUMP OR DIESEL GENERATOR TO BE MOBILIZED DURING THIS WORK.
- 5. DEMOLISH EXISTING CONTROL BUILDING, EXISTING WET WELL LID, AND EXISTING DRY WELL LID WHILE MAINTAINING UTILITY POWER TO EXISTING PUMPS FROM EXISTING TRANSFORMER.
- a. PROVIDE LATERAL SUPPORT FOR WET WELL/DRY WELL WALLS.
- b. PROVIDE TEMPORARY SHELTER OVER ALL EXPOSED OPENINGS INTO EXISTING WET WELL/DRY WELL.
- 6. INSTALL TEMPORARY BYPASS PUMPING SYSTEM (TBPS) IN EXISTING WET WELL AND CONNECT TO TCS.
  - a. AVERAGE FLOWS ~ 1,200 GPM, PEAK FLOWS ~ 2,000 GPM. b. TWO PUMPS MINIMUM OPERATING WITH VARIABLE FREQUENCY DRIVES.
- REMOVE EXISTING PUMPS, PIPING, AND VALVES FROM DRY WELL, CONSTRUCT NEW WET WELL/DRY WELL AND INSTALL NEW SUBMERSIBLE PUMPS, PIPING, AND VALVES.
- 8. CONSTRUCT CONTROL BUILDING AND INSTALL POWER, CONTROL, AND TELEMETRY PANELS.
- 9. CONSTRUCT ONSITE PIPING.
- 10. INSTALL NEW GENERATOR AND CONNECT TO NEW CONTROL SYSTEM.
- 11. RELOCATE UTILITY POWER POLE, INSTALL NEW TRANSFORMER AND CONNECT TO NEW CONTROL BUILDING PANELS. NOTE - ELECTRICAL UTILITY WORK MAY BE COMPLETED AT ANY TIME PRIOR TO TESTING AND STARTUP AS LONG AS THE NEW UTILITY POWER SERVICE IS FULLY OPERATIONAL PRIOR TO STARTUP AND TESTING OF THE NEW PUMPING SYSTEM.
- 12. SUCCESSFULLY TEST NEW PUMPING SYSTEM USING THE NEW UTILITY POWER SERVICE AND CLEAN WATER.
- 13. DIVERT FLOWS TO NEW WET WELL, TRANSFER OPERATIONS TO NEW PUMPING SYSTEM, AND DISMANTLE TBPS AND TCS.
- 14. REHABILITATE EXISTING WET WELL
- 15. CONSTRUCT BIOFILTRATION BED, RETAINING WALLS, DRIVEWAYS, AND SIDEWALK IMPROVEMENTS.
- 16. INSTALL PERIMETER FENCING AND COMPLETE ALL RESTORATION.

	Call 48 Hours Before You Dig
	1-800-424-5555 UNDERGROUND SERVICE
	POINT FISHE NOT OF WASHING STATE S
LVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES	Drawing: G-4
	Sheet: <b>4</b> of <b>117</b>
NOTES AND DESIGN CRITERIA	File: P21-10530_G-4
	Date: January 2023

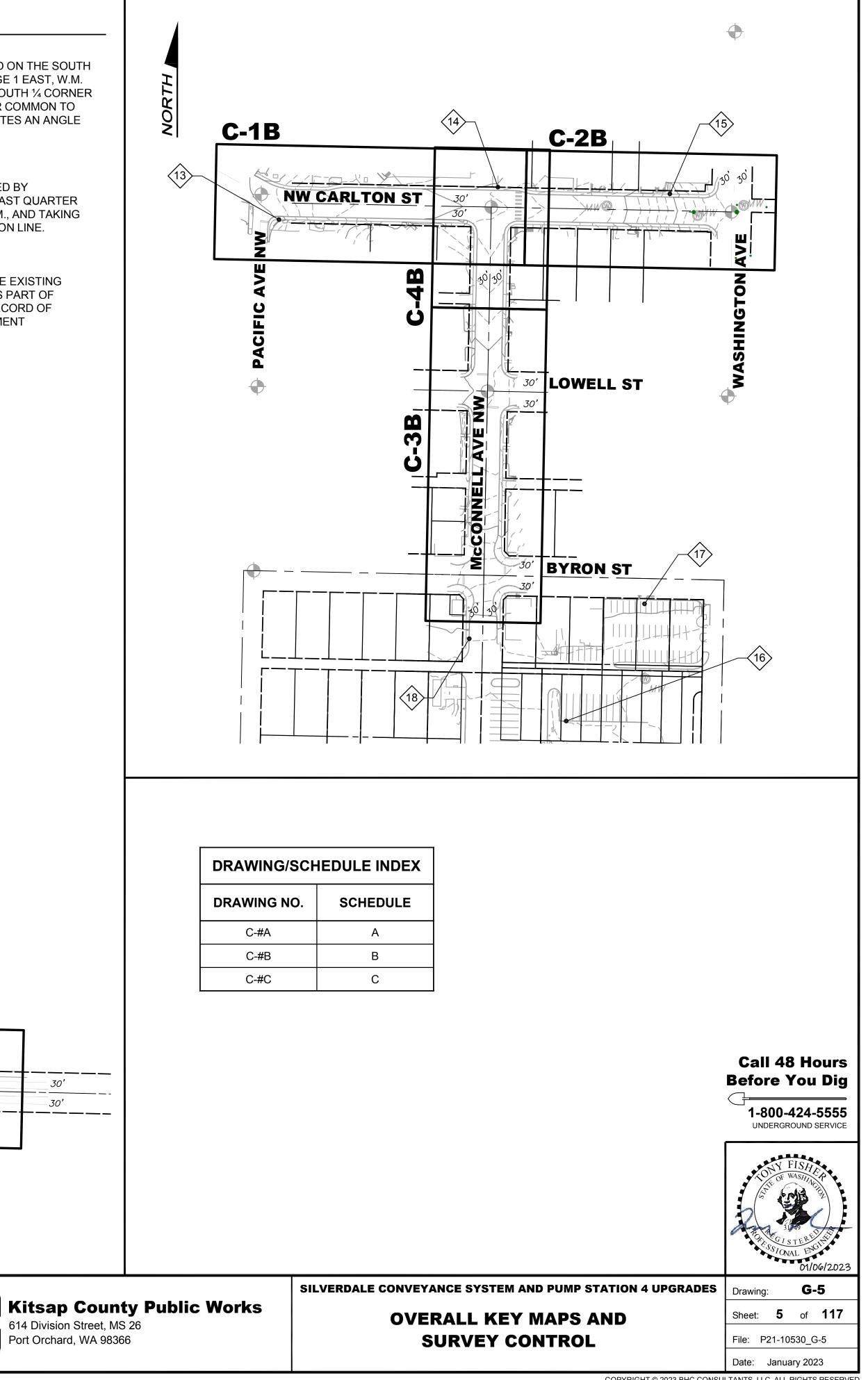
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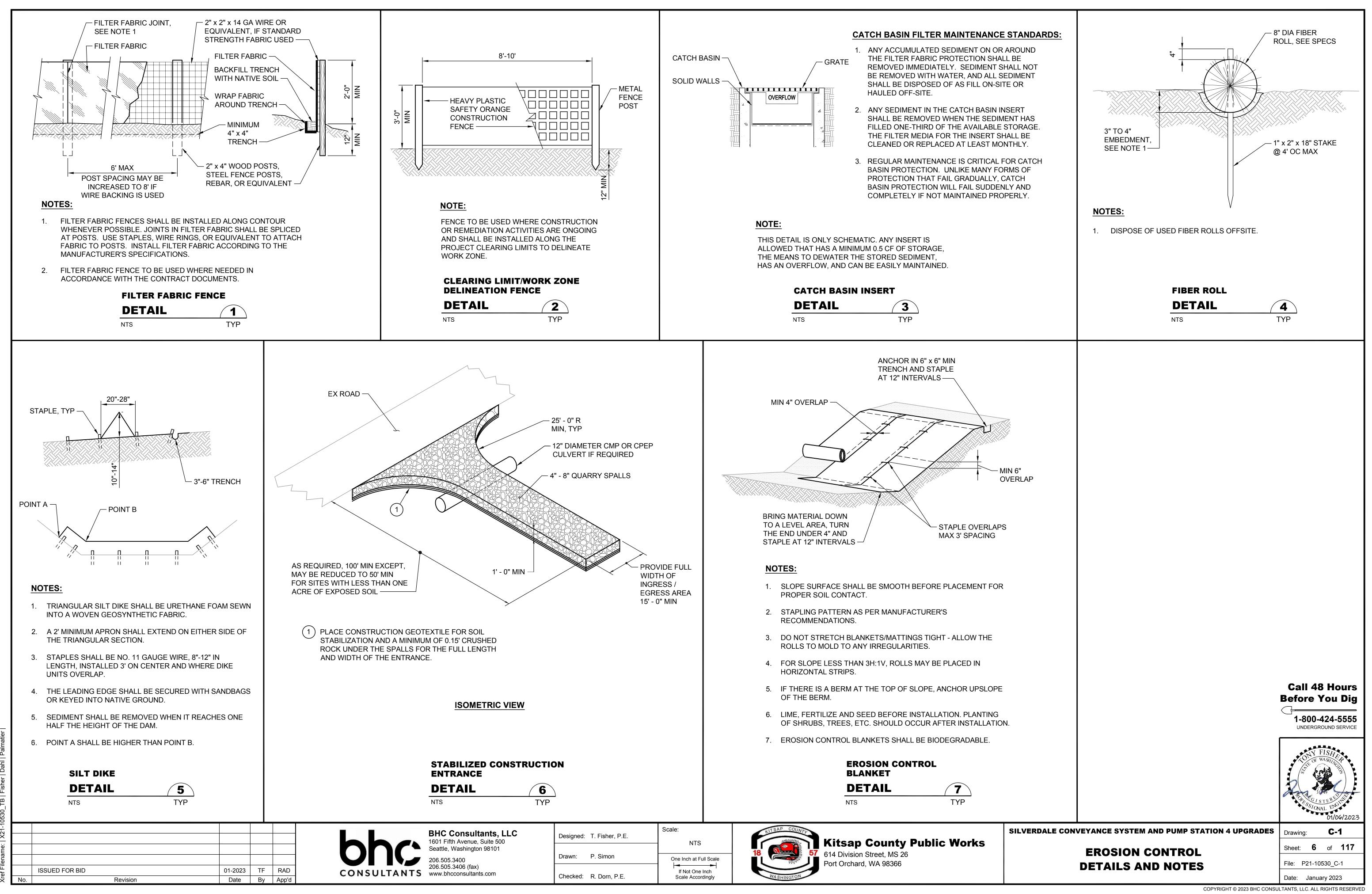
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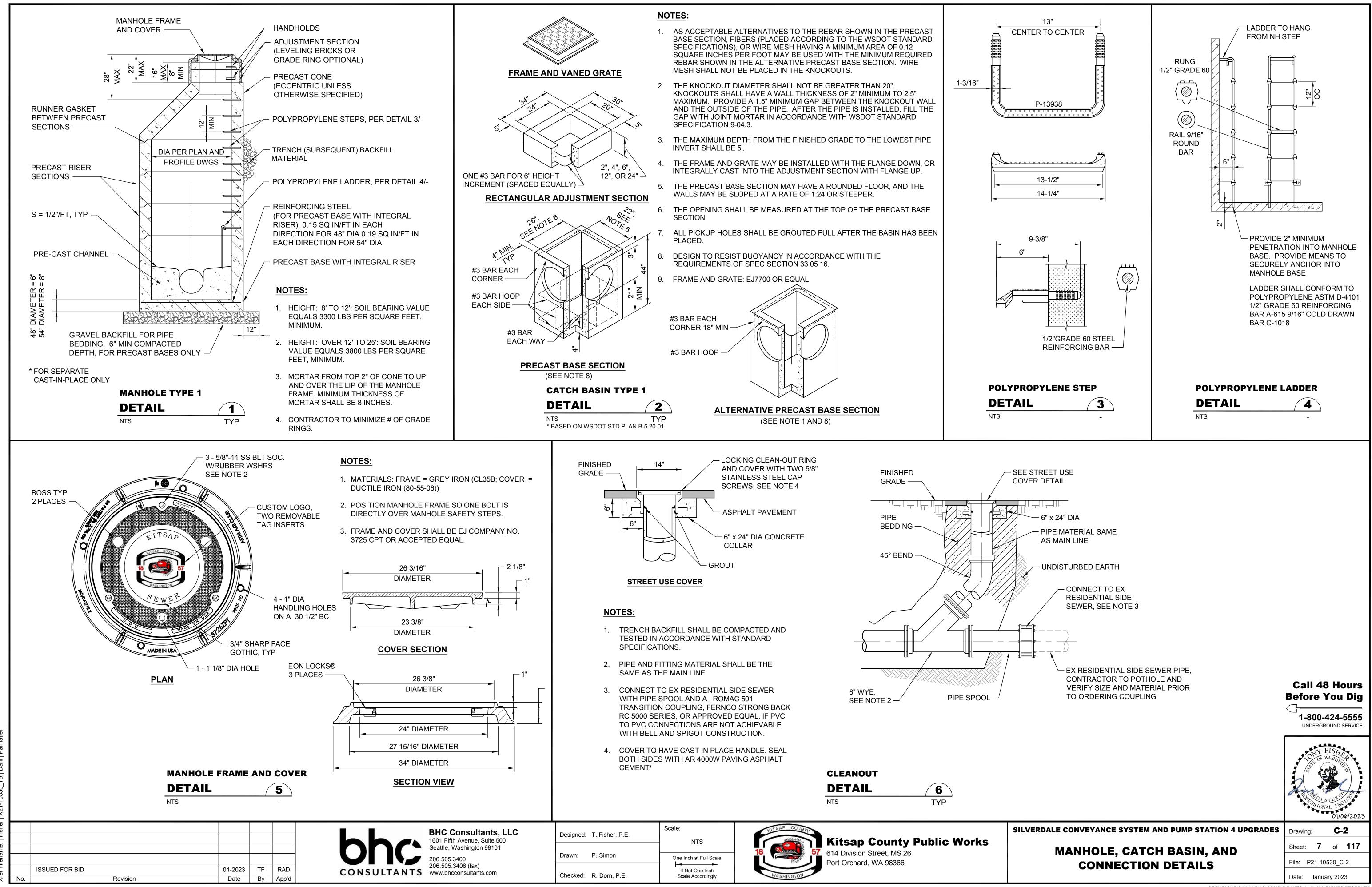
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rh id	242752.87	1186549.02	135.23
AR	242677.42	1186559.46	133.88
TH ID	243664.06	1186592.98	156.70
REBAR	242703.90	1187393.79	191.55
REBAR	242642.91	1187998.17	223.38
REBAR	241193.09	1180830.89	35.40
REBAR	241241.73	1181159.07	29.66
REBAR	241231.56	1181416.70	21.01
TH ID	240441.50	1181261.50	13.86
TH ID	240617.10	1181378.76	15.28
th id	240564.88	1181116.16	14.12

<b>tants, LLC</b> , Suite 500 on 98101	Designed: T. Fisher, P.E.	Scale: As Shown	KITSAP COUNTY
	Drawn: P. Simon	One Inch at Full Scale	18
) hts.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON

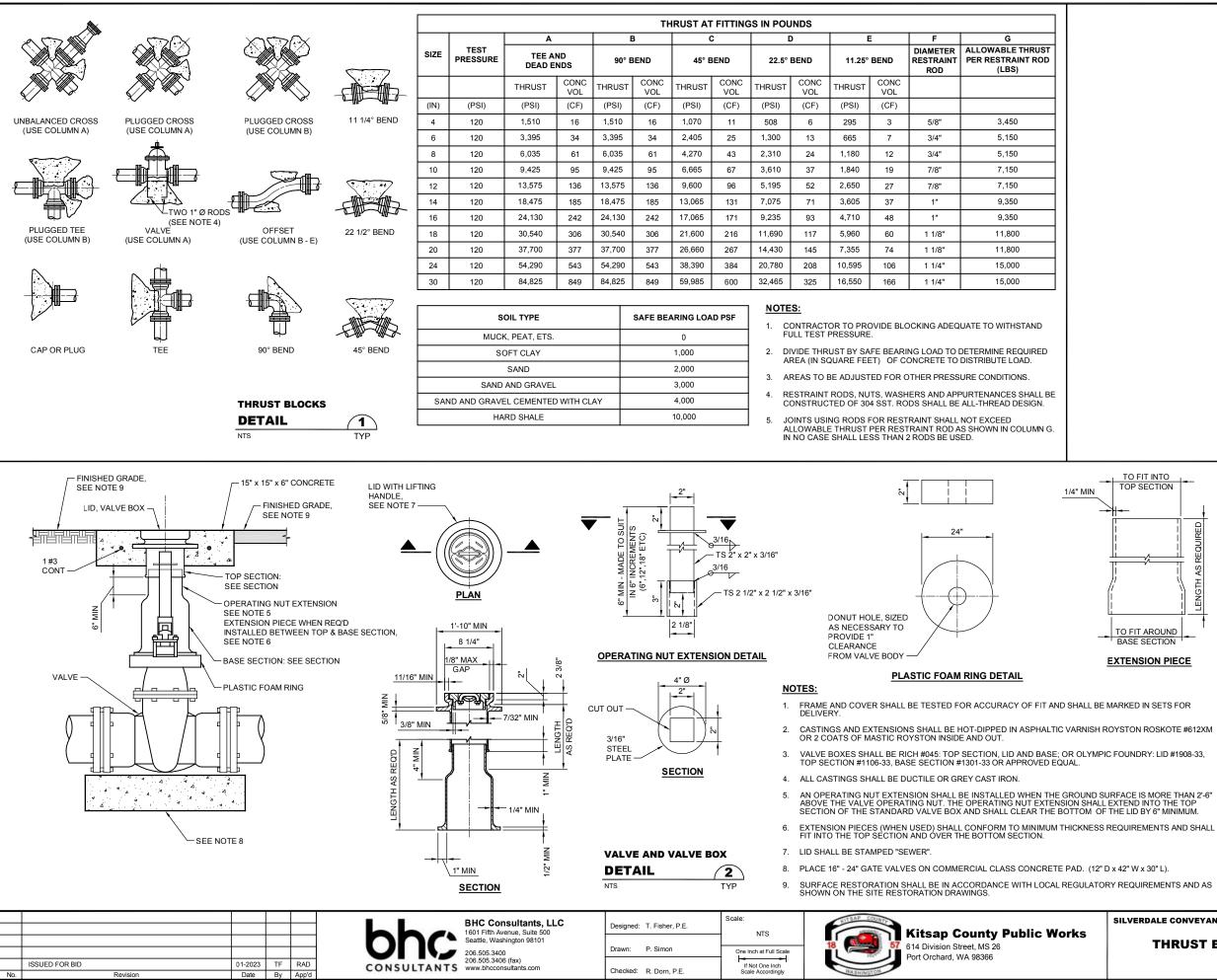


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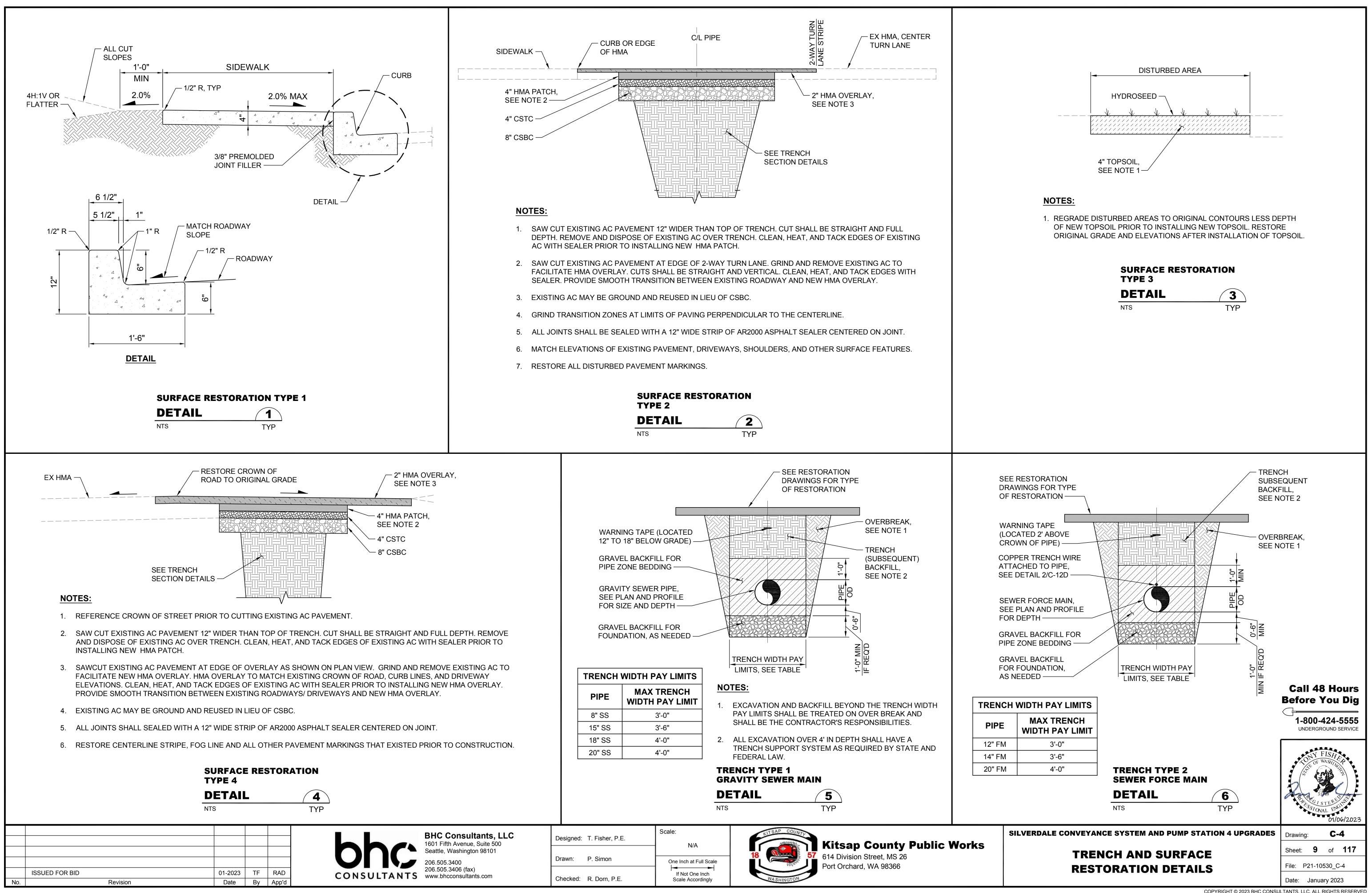


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ILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES	Drawing: C-3
THRUST BLOCK AND VALVE BOX	Sheet: <b>8</b> of <b>117</b>
DETAILS	File: P21-10530-PS4_C-3
	Date: January 2023
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**Call 48 Hours** 

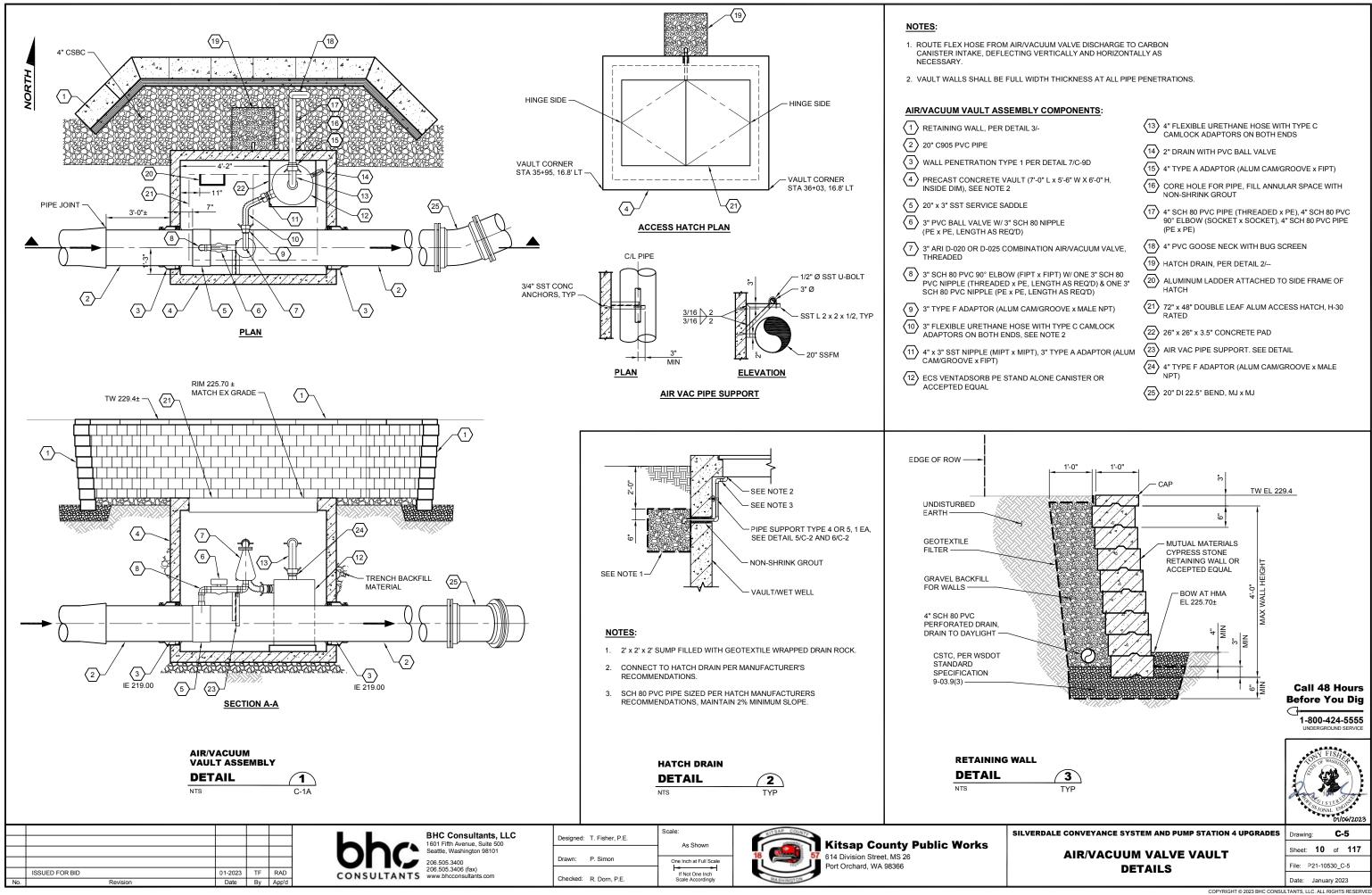
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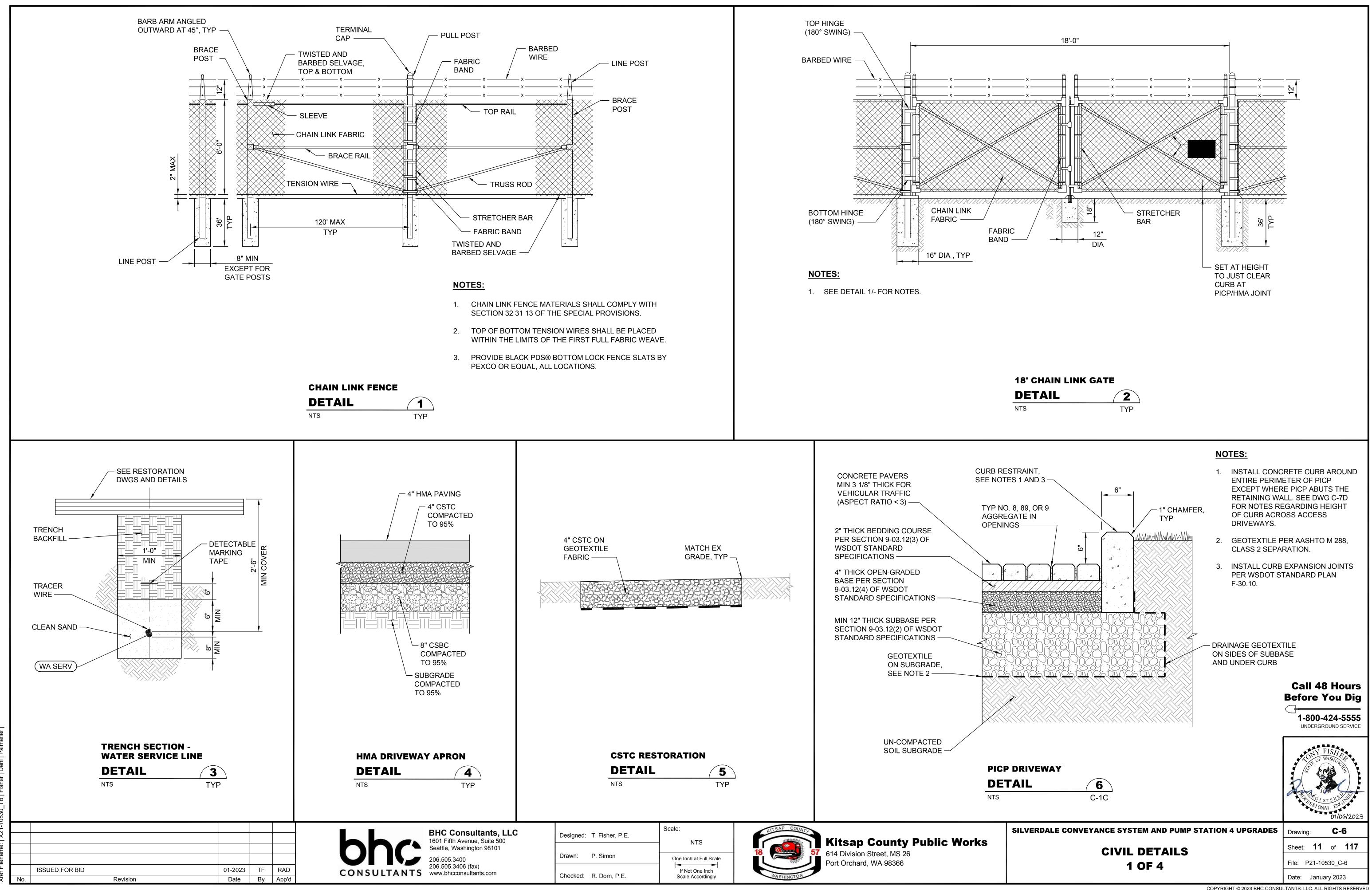
**Before You Dig** 



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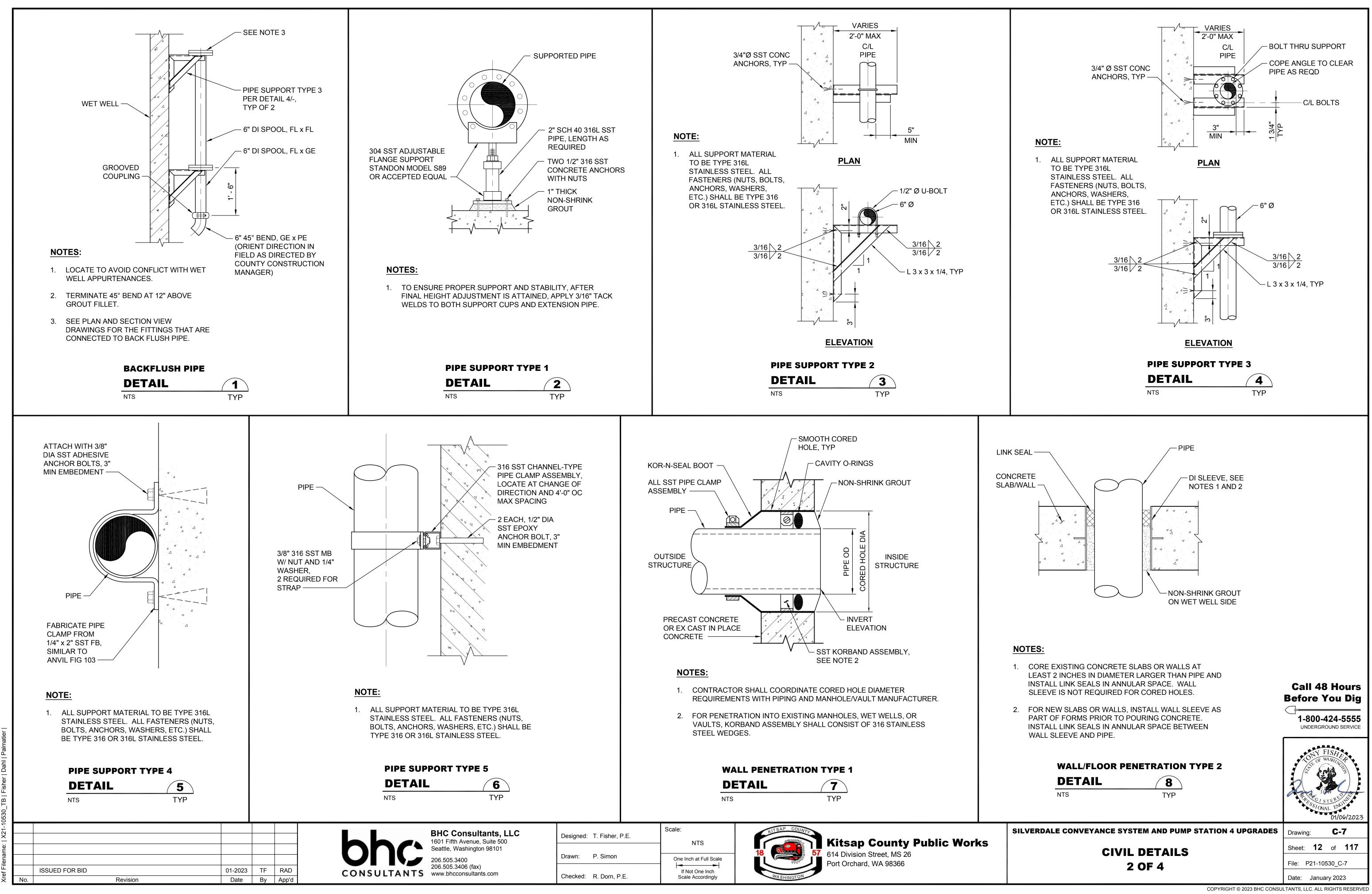
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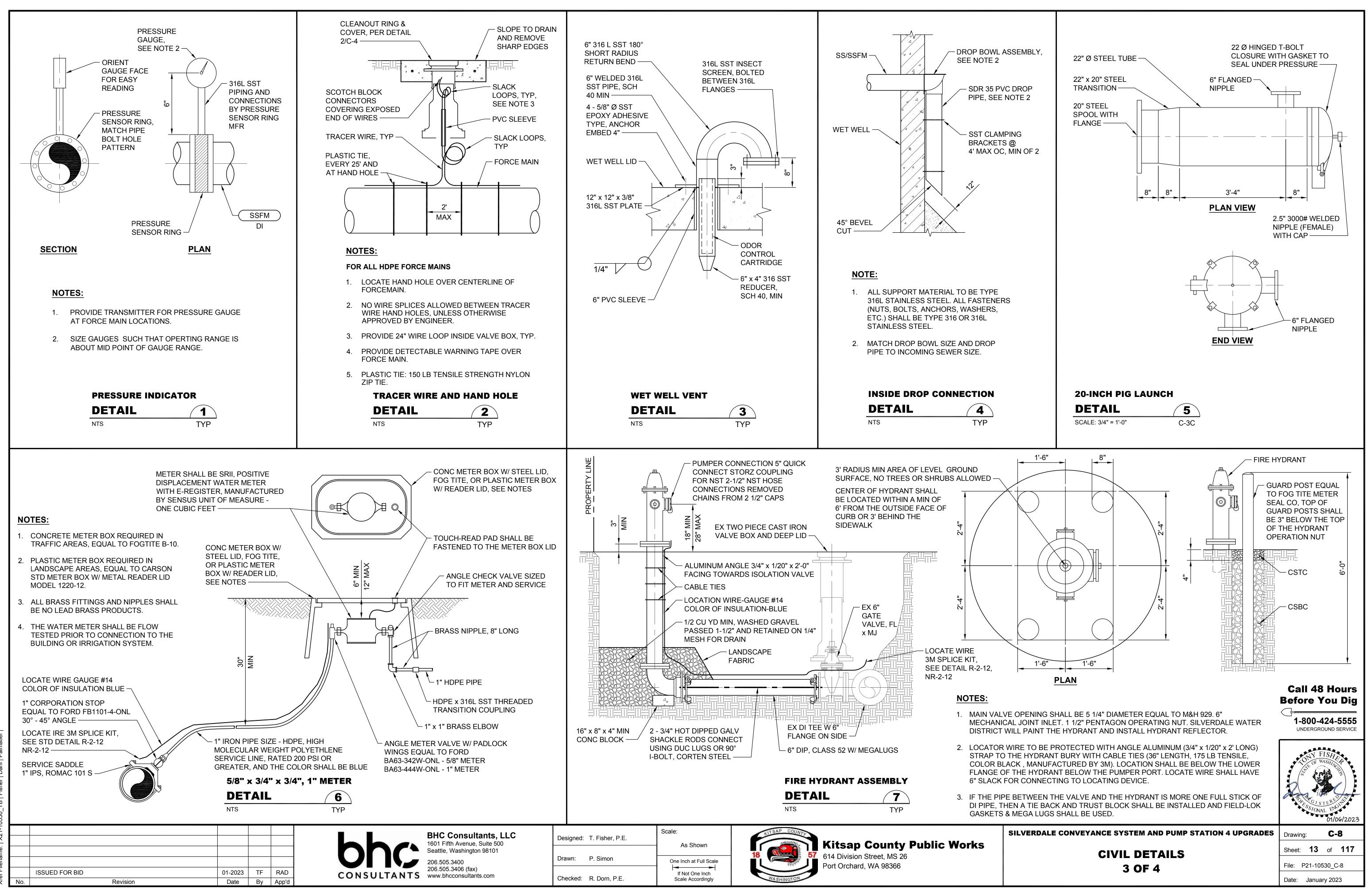


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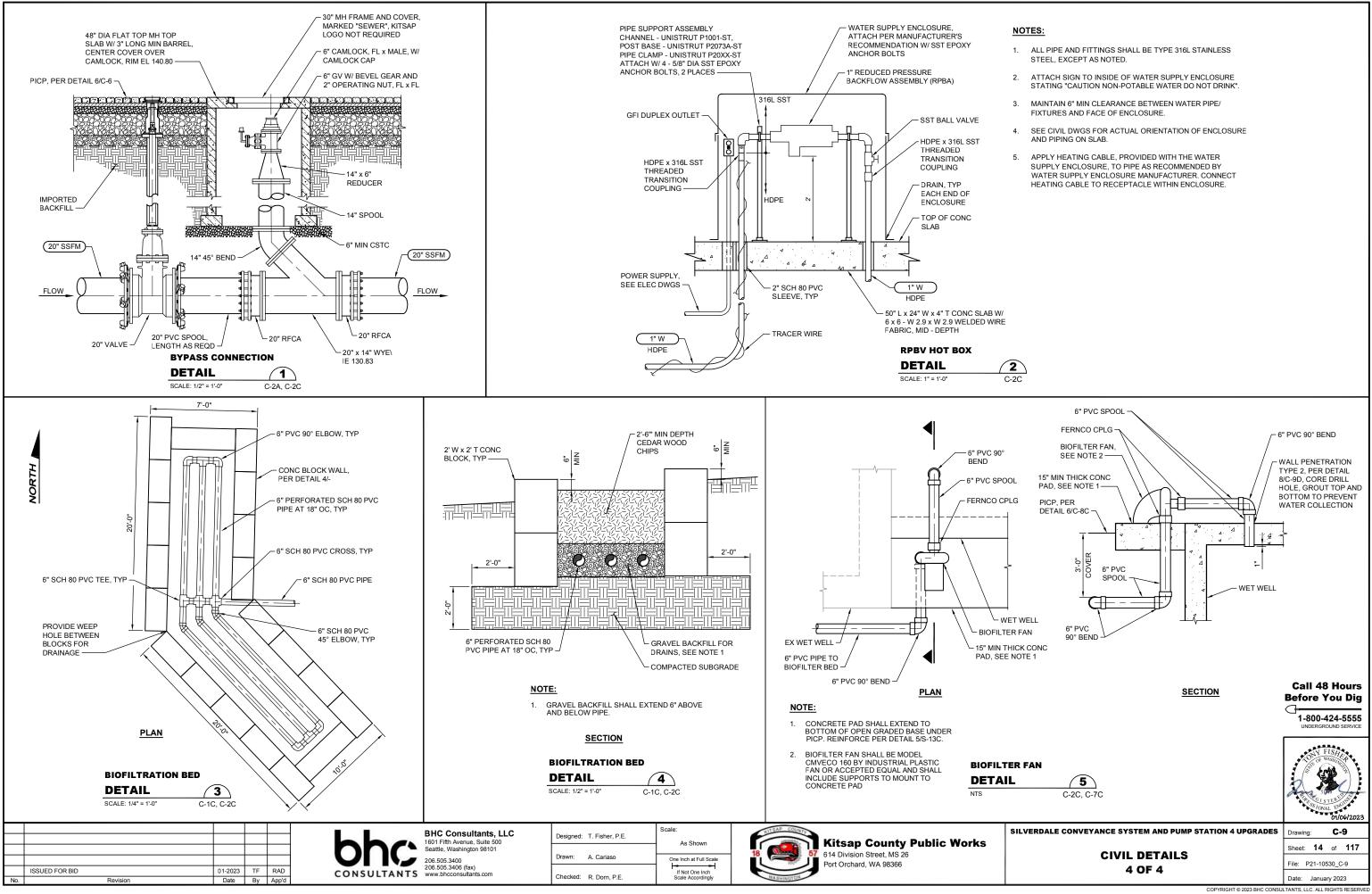


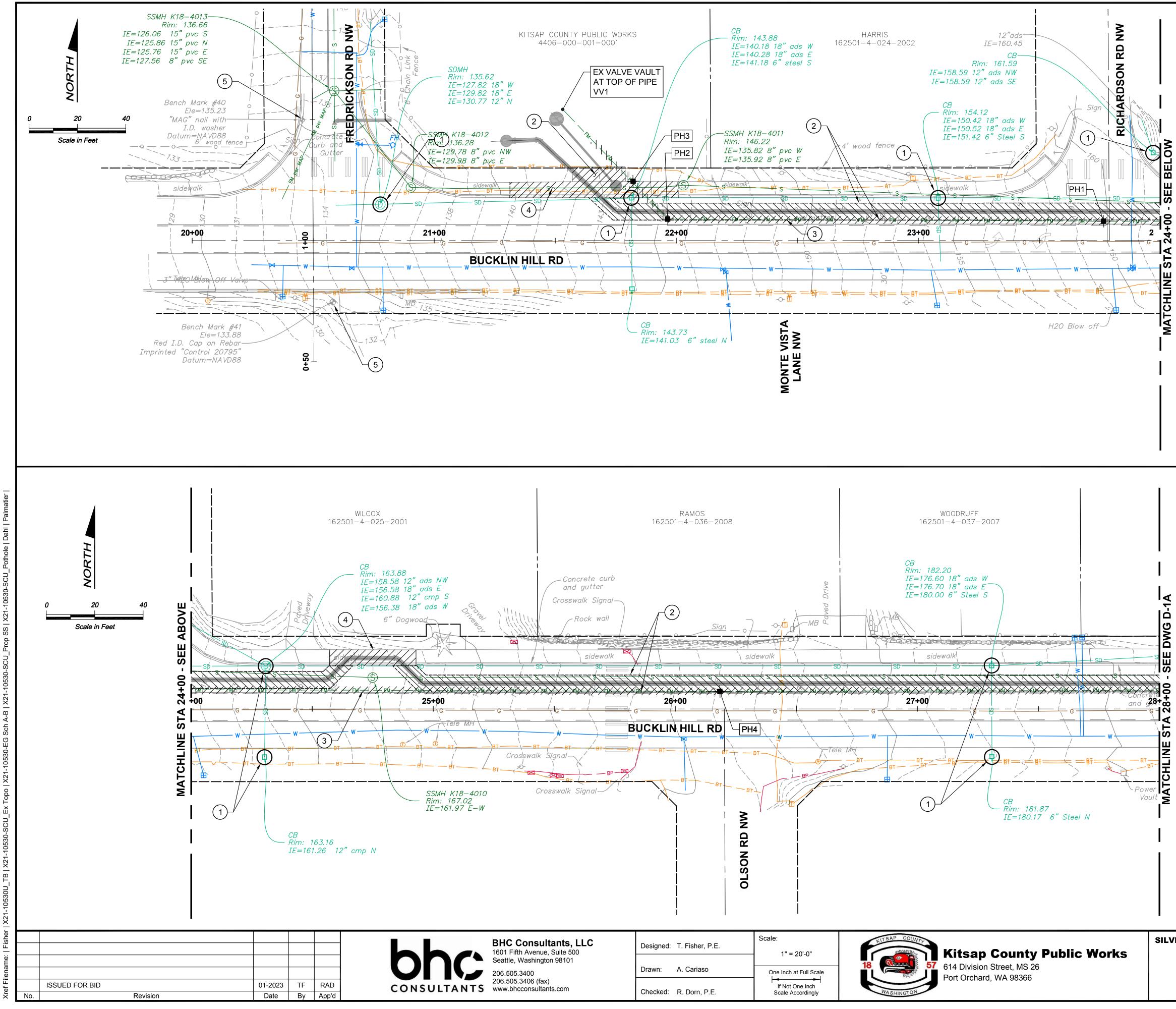
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t <b>ants, LLC</b> Suite 500	Designed: T. Fisher, P.E.	Scale: 1" = 20'-0"	Kitsap County Public Works
n 98101	Drawn: A. Cariaso	One Inch at Full Scale	18 57 614 Division Street, MS 26 Port Orchard, WA 98366
ts.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON TOT CICINAIC, WA 98300

### NOTES:

1. FOR ALL SURFACES SUBJECT TO VEHICULAR TRAFFIC, **RESTORE DISTURBED AREA WITH 1" MINIMUM TEMPORARY** HMA PATCH AND TEMPORARY STRIPING BY THE END OF EACH WORK DAY. MAINTAIN TEMPORARY HMA PATCH AND TEMPORARY STRIPING UNTIL REPLACED WITH PERMANENT HMA PATCH AND STRIPING.

### **CONSTRUCTION NOTES:**

- (1) INSTALL CATCH BASIN INSERT, PER DETAIL 3/C-1.
- 2 SAWCUT AND REMOVE FULL DEPTH OF EXISTING HMA, SEE NOTE 1 ABOVE.
- (3) ABANDON EXISTING 16" SANITARY SEWER FORCE MAIN PER SPECIAL PROVISIONS. EXISTING FORCE MAIN SHALL NOT BE ABANDONED UNTIL THE LIFT STATION 4 BYPASS SYSTEM IS FULLY OPERATIONAL.
- (4) SAWCUT AND REMOVE FULL DEPTH OF CONCRETE SIDEWALK, CURB, AND GUTTER TO THE NEAREST CONSTRUCTION JOINT.
- (5) PROTECT BENCHMARK/SURVEY MONUMENT. IF THE BENCHMARK/MONUMENT MUST BE DISTURBED, WORK SHALL COMPLY WITH SECTION 1-05.4 OF THE SPECIAL PROVISIONS AND THE WASHINGTON STATE DNR PERMIT TO DESTROY OR REMOVE A SURVEY MONUMENT.

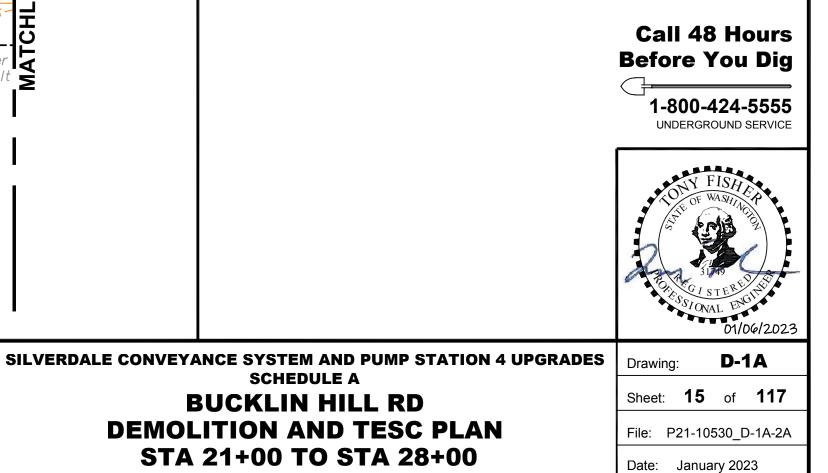
POTHOLE DATA					
PH#	EXISTING HMA THICKNESS	DEPTH TO UTILITY			
VV1	N/A	4.35 BFG			
PH1	12"	6.65' BFG			
PH2	10"	6.70' BFG			
PH3	N/A	6.85' BFG			
PH4	10"	4.85' BFG			

### LEGEND:

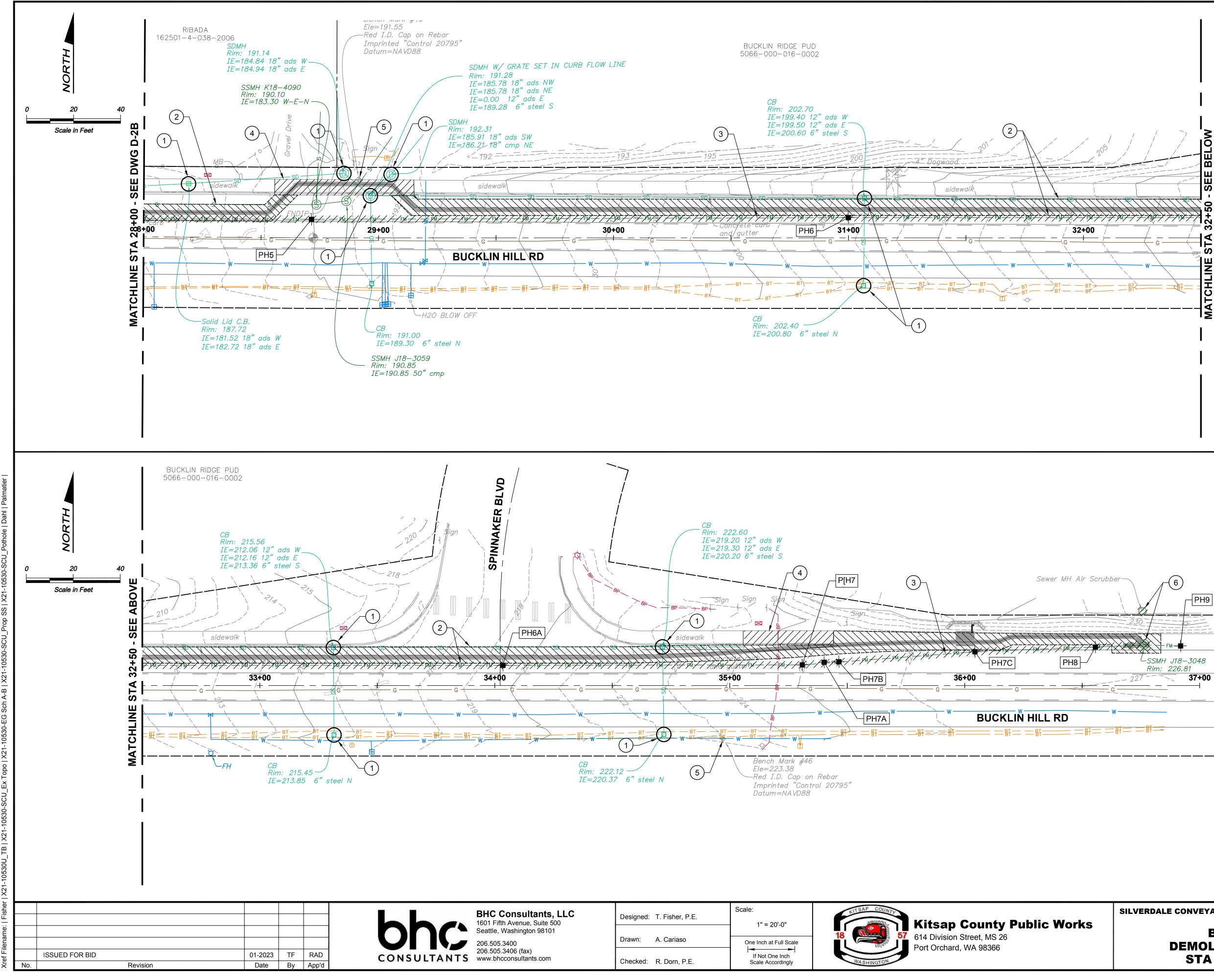
SCHEDULE A

BFG BELOW FINISH GRADE TO TOP OF PIPE.

POTHOLE



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FOR ALL SURFACES SUBJECT TO VEHICULAR TRAFFIC, RESTORE DISTURBED AREA WITH 1" MINIMUM TEMPORARY HMA PATCH AND TEMPORARY STRIPING BY THE END OF EACH WORK DAY. MAINTAIN TEMPORARY HMA PATCH AND TEMPORARY STRIPING UNTIL REPLACED WITH PERMANENT HMA PATCH AND STRIPING.

### **CONSTRUCTION NOTES:**

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- 2 SAWCUT AND REMOVE FULL DEPTH OF EXISTING HMA, SEE NOTE 1 ABOVE.
- (3) ABANDON EXISTING 16" SANITARY SEWER FORCE MAIN PER SPECIAL PROVISIONS. EXISTING FORCE MAIN SHALL NOT BE ABANDONED UNTIL THE LIFT STATION 4 BYPASS SYSTEM IS FULLY OPERATIONAL.
- (4) SAWCUT AND REMOVE FULL DEPTH OF CONCRETE SIDEWALK, CURB, AND GUTTER TO THE NEAREST CONSTRUCTION JOINT.
- 5 PROTECT BENCHMARK/SURVEY MONUMENT. IF THE BENCHMARK/MONUMENT MUST BE DISTURBED, WORK SHALL COMPLY WITH SECTION1-05.4 OF THE SPECIAL PROVISIONS AND THE WASHINGTON STATE DNR PERMIT TO DESTROY OR REMOVE A SURVEY MONUMENT.
- (6) REMOVE AND PROPERLY DISPOSE OF EXISTING AIR SCRUBBER AND MANHOLE.

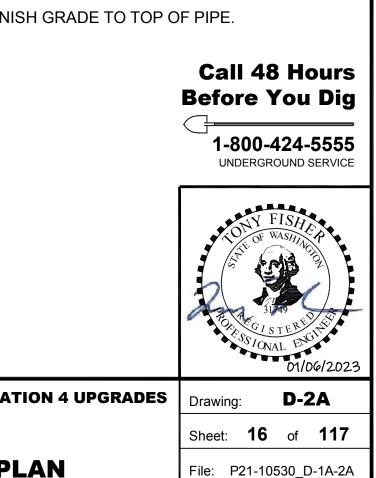
POTHOLE DATA					
PH#	EXISTINGHMA THICKNESS	DEPTH TO UTILITY			
PH5	12"	5.20' BFG			
PH6	12"	4.70' BFG			
PH6A	9"	4.75' BFG			
PH7	10"	6.42' BFG			
PH7A	10"	6.70' BFG			
PH7B	10"	6.90' BFG			
PH7C*	14"	4.70' BFG			
PH8	9"	7.60' BFG			
PH9	8"	6.90' BFG			

\* ENCOUNTERED TWO 2" HDPE PIPES ABOVE EX SSFM (4.5' BFG)

### LEGEND:

BFG BELOW FINISH GRADE TO TOP OF PIPE.

POTHOLE

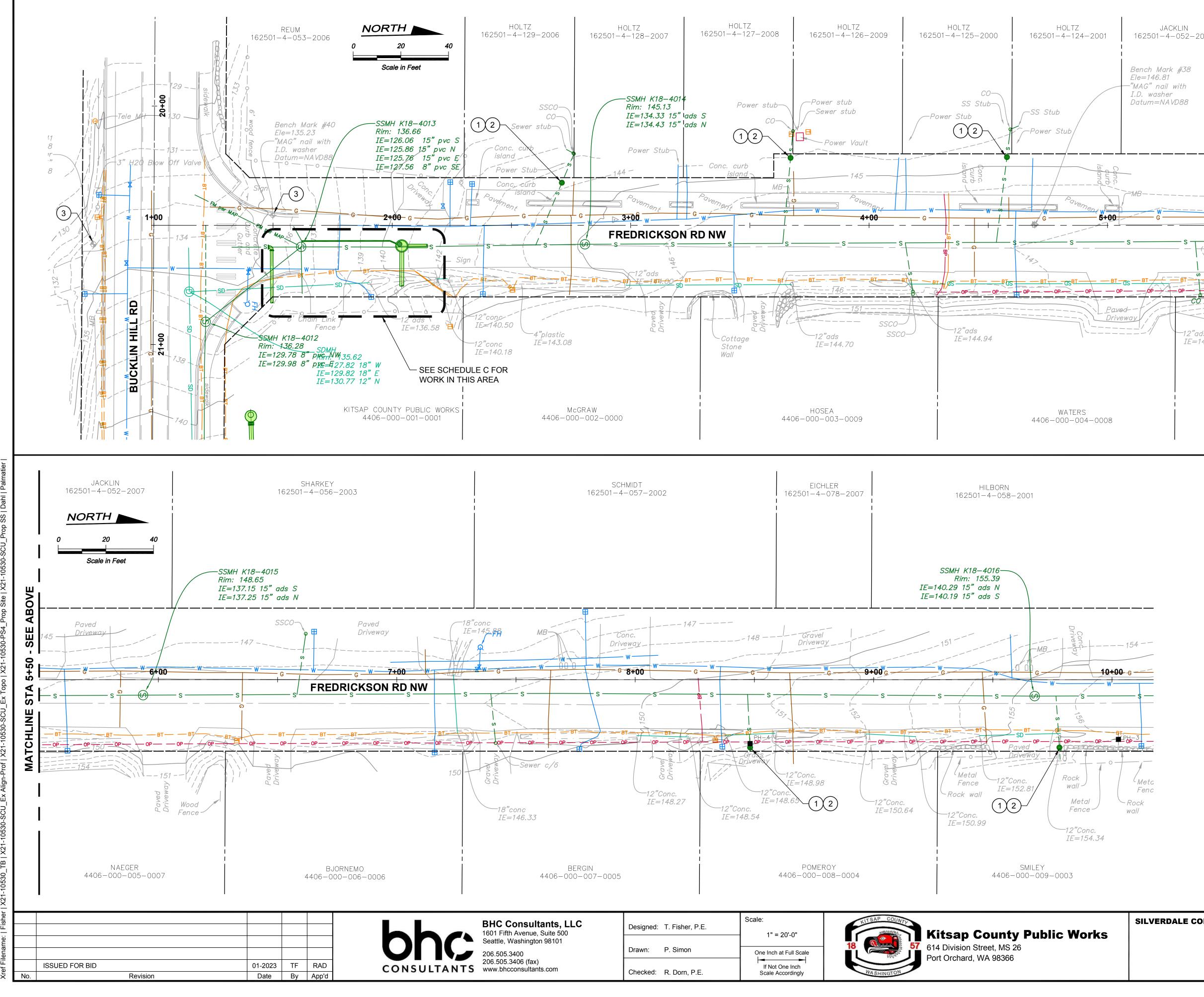


SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE A **BUCKLIN HILL RD DEMOLITION AND TESC PLAN** 

STA 28+00 TO STA 37+00

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Date: January 2023



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### Bench Mark #38 Ele=146.81 —"MAG" nail with I.D. washer Datum=NAVD88

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### NOTES:

- FOR ALL SURFACES SUBJECT TO VEHICULAR TRAFFIC, **RESTORE DISTURBED AREA WITH 1" MINIMUM TEMPORARY** HMA PATCH AND TEMPORARY STRIPING BY THE END OF EACH WORK DAY. MAINTAIN TEMPORARY HMA PATCH AND TEMPORARY STRIPING UNTIL REPLACED WITH PERMANENT HMA PATCH AND STRIPING.
- 2. BYPASS FLOWS AND COORDINATE WITH PROPERTY OWNERS AS NECESSARY TO FACILITATE CONNECTIONS TO THE EXISTING SIDE SEWER.

# **CONSTRUCTION NOTES:**

- (1) INSTALL FILTER FABRIC FENCE PER DETAIL 1/C-1 DOWNSTREAM OF ALL SOIL DISTURBING ACTIVITIES PRIOR TO DISTURBING ANY GROUND.
- (2) INSTALL CLEANOUT PER DETAIL 6/C-2. RESTORE DISTURBED AREA TO PRE-EXISTING CONDITION OR BETTER.
- (3) PROTECT BENCHMARK/SURVEY MONUMENT. IF THE BENCHMARK/ MONUMENT MUST BE DISTURBED, WORK SHALL COMPLY WITH SECTION 1-05.4 OF THE SPECIAL PROVISIONS AND THE WASHINGTON STATE DNR PERMIT TO DESTROY OR REMOVE A SURVEY MONUMENT.



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Call 48 Hours

1-800-424-5555

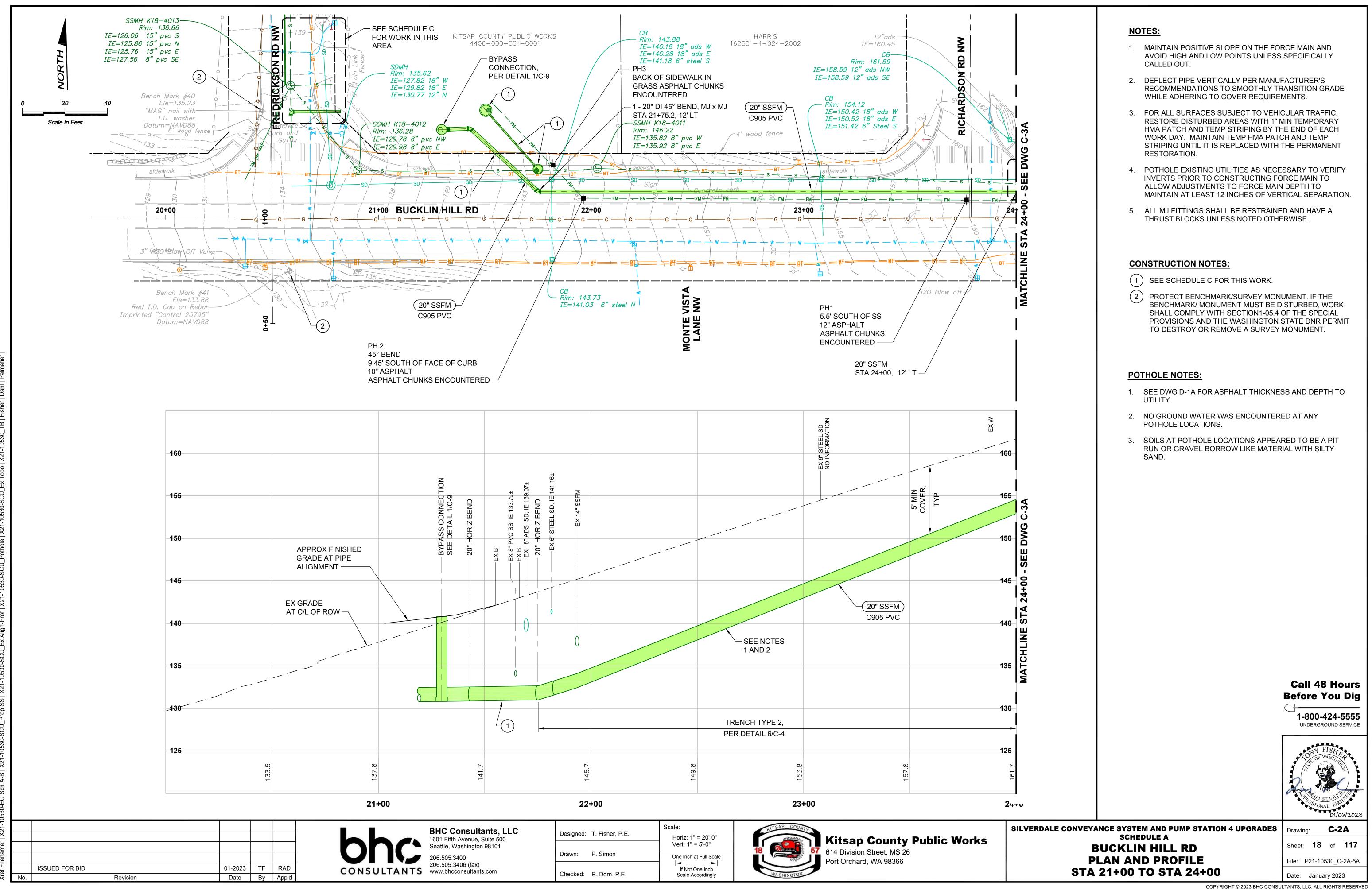
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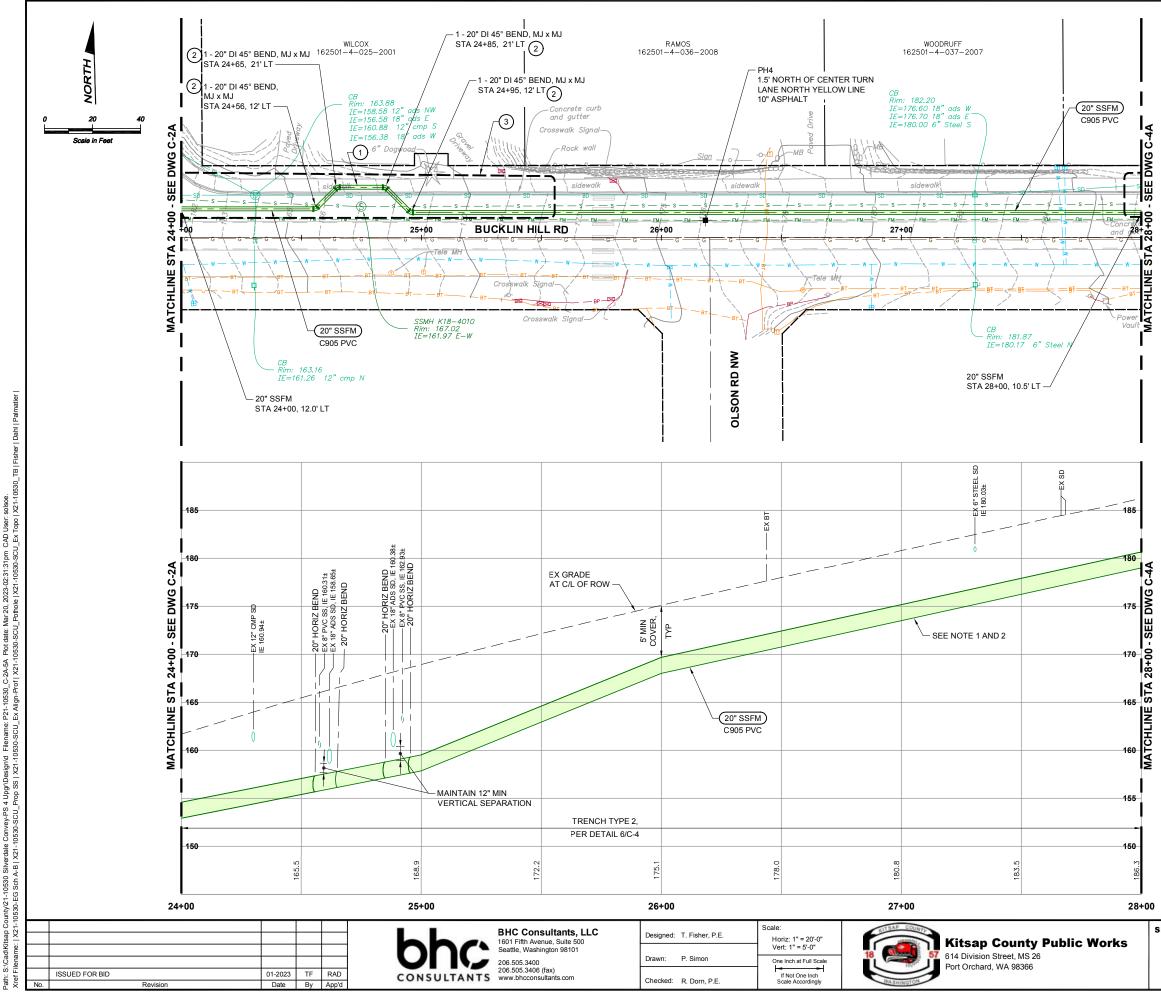
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**Before You Dig** 



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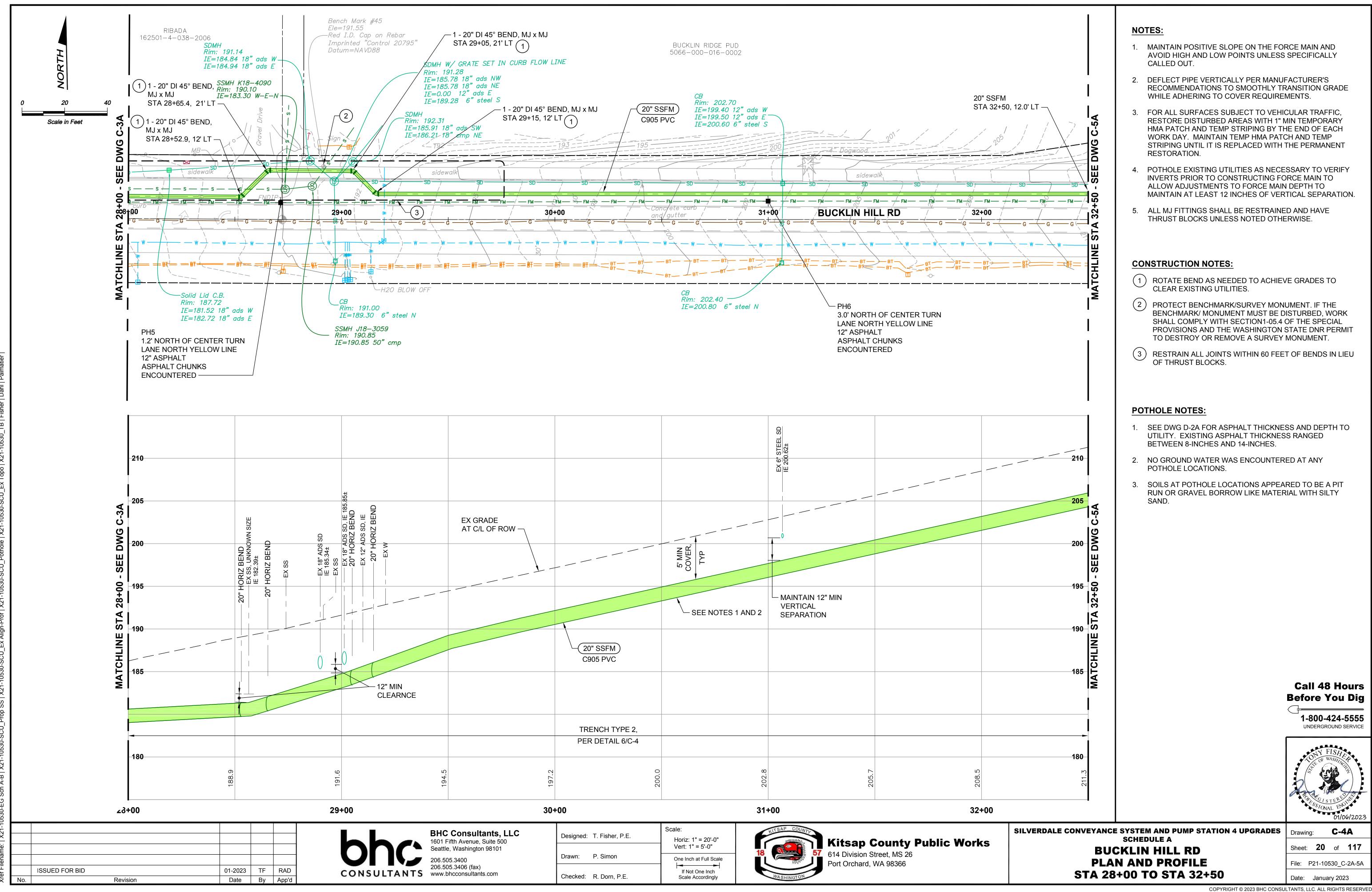
NO	TES:
1.	MAINTAIN POSITIVE SLOPE ON THE FORCE MAIN AND AVOID HIGH AND LOW POINTS UNLESS SPECIFICALLY CALLED OUT.
2.	DEFLECT PIPE VERTICALLY PER MANUFACTURER'S RECOMMENDATIONS TO SMOOTHLY TRANSITION GRAD WHILE ADHERING TO COVER REQUIREMENTS.
3.	FOR ALL SURFACES SUBJECT TO VEHICULAR TRAFFIC, RESTORE DISTURBED AREAS WITH 1" MIN TEMPORARY HMA PATCH AND TEMP STRIPING BY THE END OF EACH WORK DAY. MAINTAIN TEMP HMA PATCH AND TEMP STRIPING UNTIL IT IS REPLACED WITH THE PERMANENT RESTORATION.
4.	POTHOLE EXISTING UTILITIES AS NECESSARY TO VERIF INVERTS PRIOR TO CONSTRUCTING FORCE MAIN TO ALLOW ADJUSTMENTS TO FORCE MAIN DEPTH TO MAINTAIN AT LEAST 12 INCHES OF VERTICAL SEPARATI
5.	ALL MJ FITTINGS SHALL BE RESTRAINED AND HAVE THRUST BLOCKS UNLESS NOTED OTHERWISE.
со	NSTRUCTION NOTES:
$\overline{(1)}$	MAINTAIN 2 FOOT CLEARANCE FROM SSMH.
2	<ul> <li>ROTATE BEND AS NEEDED TO ACHIEVE GRADES TO CLEAR EXISTING UTILITIES.</li> </ul>
3	RESTRAIN ALL JOINTS WITHIN 60 FEET OF BENDS IN L OF THRUST BLOCKS. PIPE JOINTS MORE THAN 60 FEE FROM THE BEND MAY BE RESTRAINED OR UNRESTRA AT CONTRACTOR'S OPTION UNLESS NOTED OTHERWI
PO	THOLE NOTES:
1.	SEE DWG D-1A FOR ASPHALT THICKNESS AND DEPTH T UTILITY. EXISTING ASPHALT THICKNESS RANGED BETWEEN 8-INCHES AND 14-INCHES.
2.	NO GROUND WATER WAS ENCOUNTERED AT ANY POTHOLE LOCATIONS.
3.	SOILS AT POTHOLE LOCATIONS APPEARED TO BE A PIT RUN OR GRAVEL BORROW LIKE MATERIAL WITH SILTY SAND.
	Call 48 He Before You
	1-800-424- UNDERGROUND
	NY FISH

SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES Drawing: SCHEDULE A Sheet: 19 of 117 **BUCKLIN HILL RD** PLAN AND PROFILE File: P21-10530\_C-2A-5A STA 24+00 TO STA 28+00 Date: January 2023

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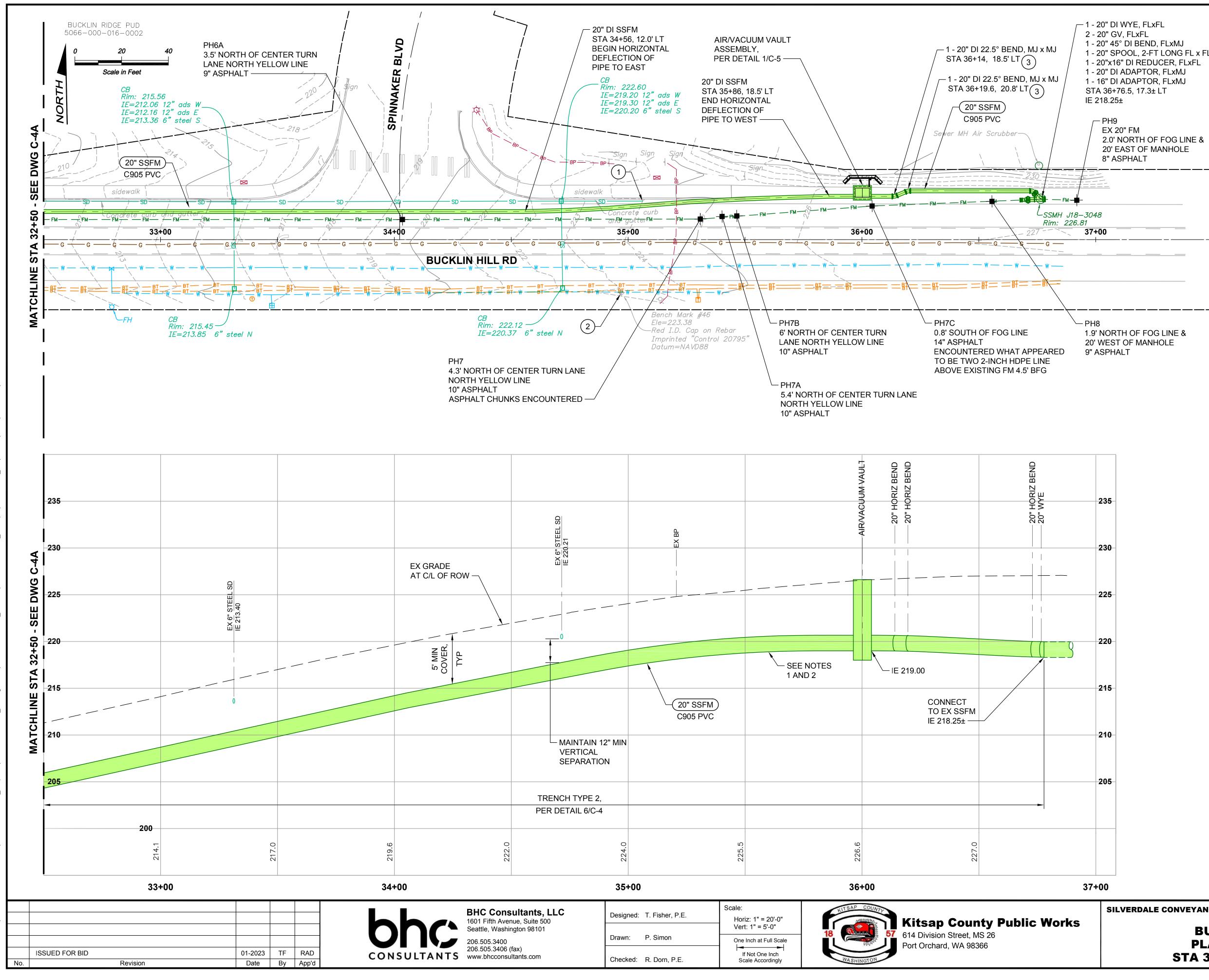


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Date: January 2023

51/06/202:

C-4A



User: JLira <sup>[</sup>opo | X21-CAD 49pm ( X21-X21-SCU 530 101 30\_C-2A-5A -Prof | X21-10 Silverdale Convey-PS 4 Upgr\Design\d Filename: P21-105 A-B | X21-10530-SCU\_Prop SS | X21-10530-SCU\_Ex Align-3530 Sch , ЪÜ X ap

— 1 - 20" DI WYE, FLxFL 2 - 20" GV, FLxFL 1 - 20" 45° DI BEND, FLxMJ 1 - 20" SPOOL, 2-FT LONG FL x FL 1 - 20"x16" DI REDUCER, FLxFL 1 - 20" DI ADAPTOR, FLxMJ 1 - 16" DI ADAPTOR, FLxMJ STA 36+76.5, 17.3± LT

> EX 20" FM 2.0' NORTH OF FOG LINE & 20' EAST OF MANHOLE 8" ASPHALT \_\_\_\_\_

1.9' NORTH OF FOG LINE & 20' WEST OF MANHOLE

### NOTES:

- MAINTAIN POSITIVE SLOPE ON THE FORCE MAIN AND AVOID HIGH AND LOW POINTS UNLESS SPECIFICALLY CALLED OUT.
- 2. DEFLECT PIPE VERTICALLY PER MANUFACTURER'S RECOMMENDATIONS TO SMOOTHLY TRANSITION GRADE WHILE ADHERING TO COVER REQUIREMENTS.
- 3. FOR ALL SURFACES SUBJECT TO VEHICULAR TRAFFIC, **RESTORE DISTURBED AREAS WITH 1" MIN TEMPORARY** HMA PATCH AND TEMP STRIPING BY THE END OF EACH WORK DAY. MAINTAIN TEMP HMA PATCH AND TEMP STRIPING UNTIL IT IS REPLACED WITH THE PERMANENT RESTORATION.
- POTHOLE EXISTING UTILITIES AS NECESSARY TO VERIFY 4 INVERTS PRIOR TO CONSTRUCTING FORCE MAIN TO ALLOW ADJUSTMENTS TO FORCE MAIN DEPTH TO MAINTAIN AT LEAST 12 INCHES OF VERTICAL SEPARATION
- 5. ALL MJ FITTINGS SHALL BE RESTRAINED AND HAVE THRUST BLOCKS UNLESS NOTES OTHERWISE.

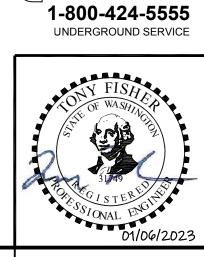
### **CONSTRUCTION NOTES:**

- (1) END OF EXISTING SD NOT LOCATED. POTHOLE AT CROSSING PRIOR TO CONSTRUCTING SSFM.
- (2) PROTECT BENCHMARK/SURVEY MONUMENT. IF THE BENCHMARK/ MONUMENT MUST BE DISTURBED, WORK SHALL COMPLY WITH SECTION1-05.4 OF THE SPECIAL PROVISIONS AND THE WASHINGTON STATE DNR PERMIT TO DESTROY OR REMOVE A SURVEY MONUMENT.
- (3) RESTRAIN ALL JOINTS WITHIN 60 FEET OF BENDS IN LIEU OF THRUST BLOCKS.

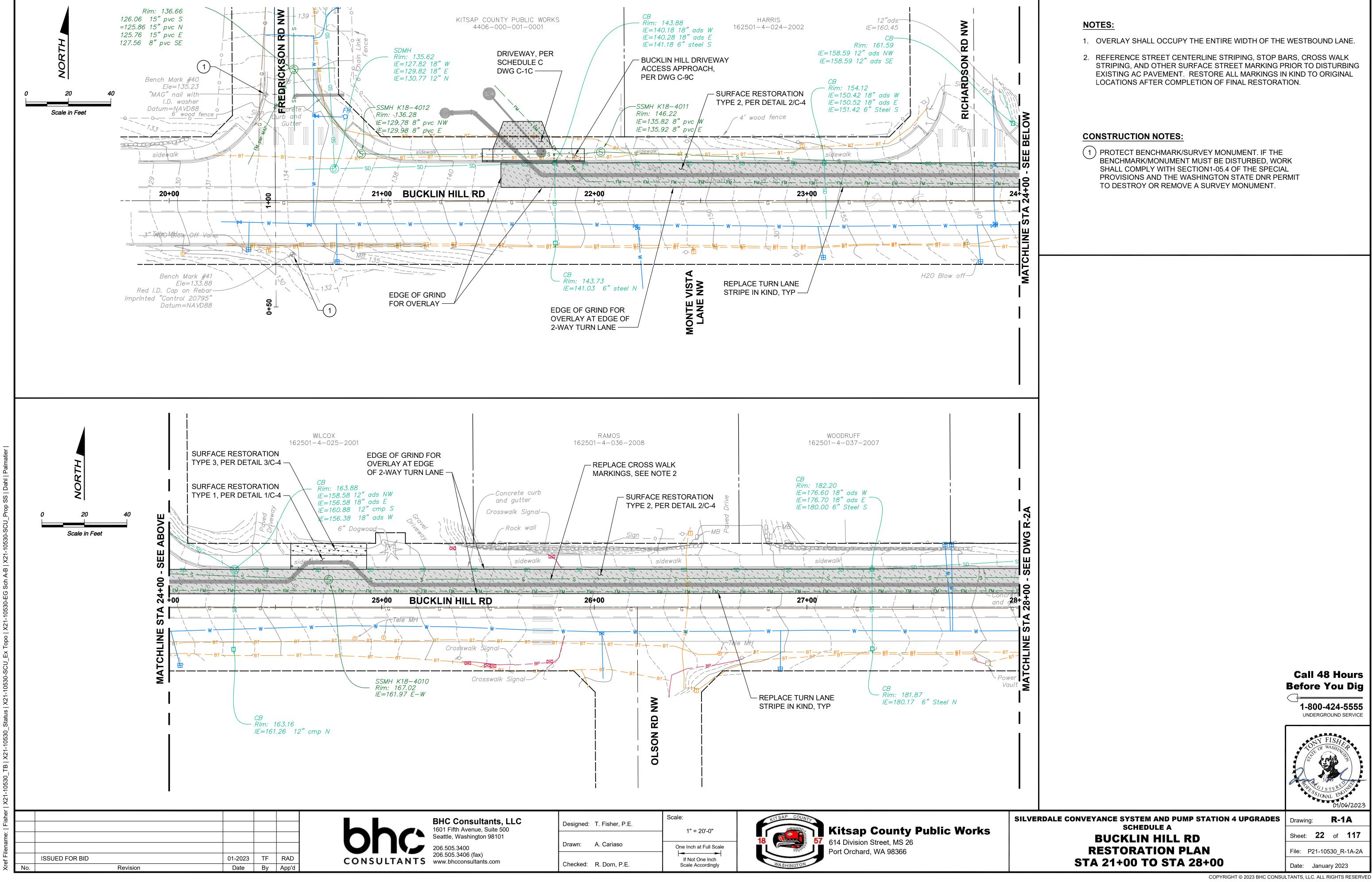
### **POTHOLE NOTES:**

- SEE DWG D-2A FOR ASPHALT THICKNESS AND DEPTH TO UTILITY. EXISTING ASPHALT THICKNESS RANGED **BETWEEN 8-INCHES AND 14-INCHES.**
- 2. NO GROUND WATER WAS ENCOUNTERED AT ANY POTHOLE LOCATIONS.
- 3. SOILS AT POTHOLE LOCATIONS APPEARED TO BE A PIT RUN OR GRAVEL BORROW LIKE MATERIAL WITH SILTY SAND.



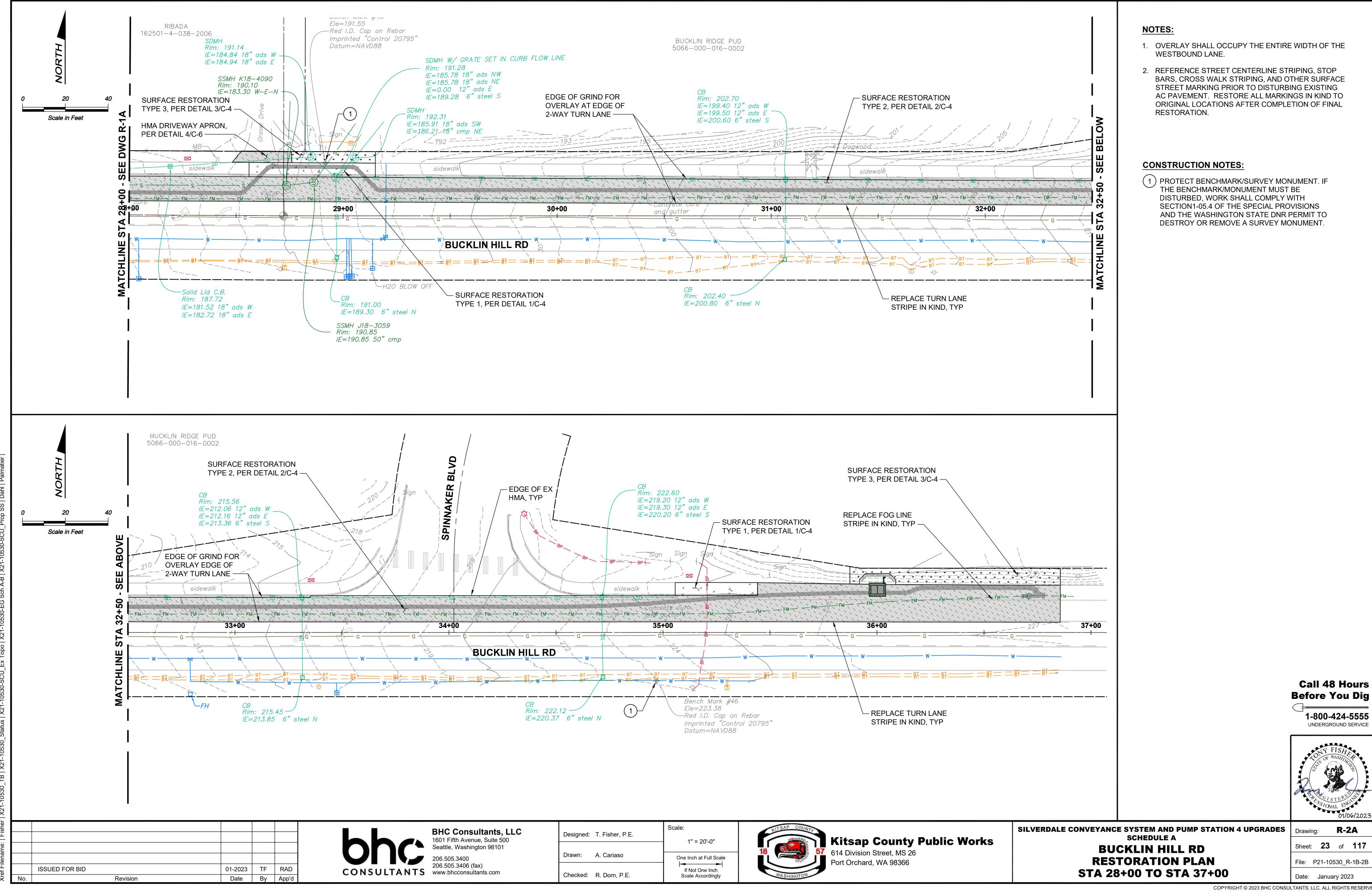


VERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES	Drawi	ng:	<b>C</b> -!	5 <b>A</b>
SCHEDULE A				
BUCKLIN HILL RD	Sheet	: 21	of	117
PLAN AND PROFILE	File:	P21-10	)530_(	C-2A-5-A
STA 32+50 TO STA 37+00	Date:	Janu	ary 20	23



53p Jan 06, 2023-01 -10530-SCU\_Pre Plot date: A-B | X21-)530\_R-1A-2A ·10530-EG Sch <u>+</u> X Ь - -X21-10530-SC 30 FB | X21-1 X21

<b>ants, LLC</b> Suite 500 98101	Designed: T. Fisher, P.E.	Scale: 1" = 20'-0"	Kitsap County Public Works	SI
	Drawn: A. Cariaso	One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366	
s.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WA SHINGTON	



8 S | S 2023 SCU Jan 06, 10530-Plot date: A-B | X21--10530\_R-1A-2A\_F 21-10530-EG Sch / ר-ו־דידי 10\_Ex Topo | X21 Upgr/Design/a X21-10530-SCI 0530\_Status | TB | X21-10 10530\_\_\_ ty/21 X21-

ants, LLC Suite 500 98101	Designed: T. Fisher, P.E.	Scale: 1" = 20'-0"	Kitsap County Public Works	SIL
90101	Drawn: A. Cariaso	One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366	
s.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WA SHINGTON	

- 1. OVERLAY SHALL OCCUPY THE ENTIRE WIDTH OF THE
- 2. REFERENCE STREET CENTERLINE STRIPING, STOP BARS, CROSS WALK STRIPING, AND OTHER SURFACE STREET MARKING PRIOR TO DISTURBING EXISTING AC PAVEMENT. RESTORE ALL MARKINGS IN KIND TO ORIGINAL LOCATIONS AFTER COMPLETION OF FINAL

THE BENCHMARK/MONUMENT MUST BE DISTURBED, WORK SHALL COMPLY WITH SECTION1-05.4 OF THE SPECIAL PROVISIONS AND THE WASHINGTON STATE DNR PERMIT TO DESTROY OR REMOVE A SURVEY MONUMENT.

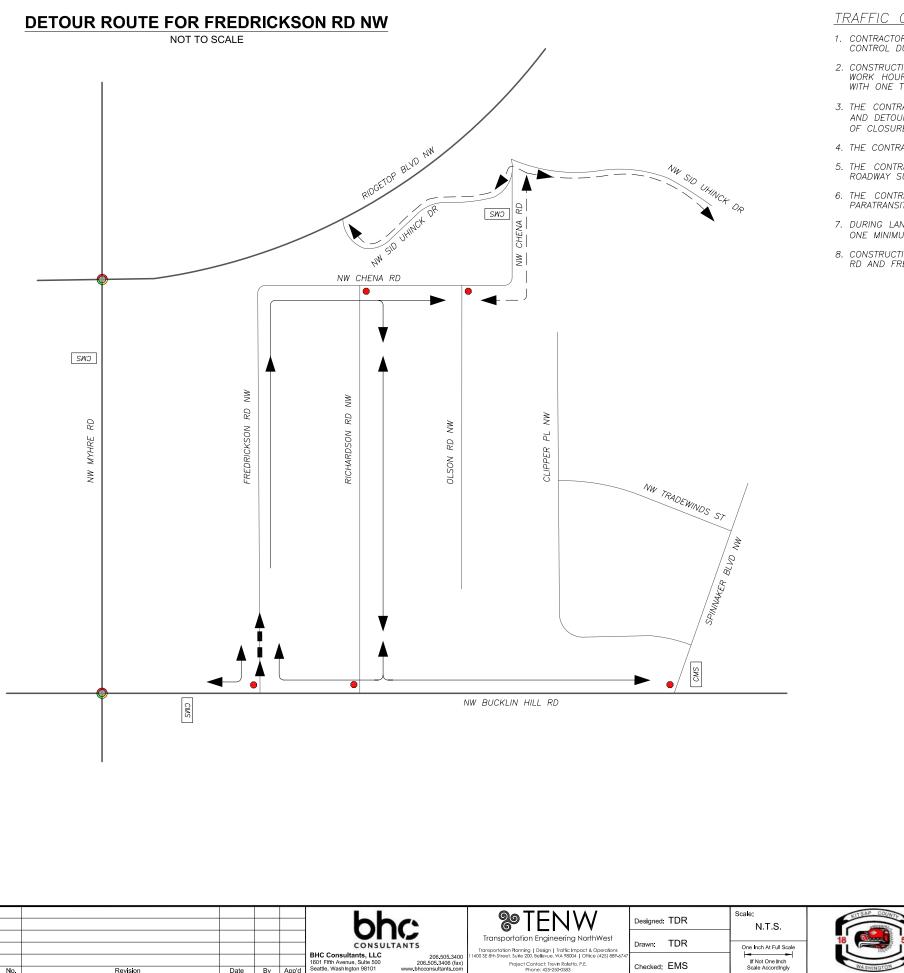
1-800-424-5555

UNDERGROUND SERVICE

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01/06/2023

**R-2A** 



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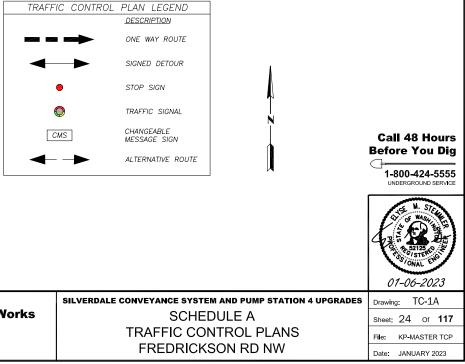
Revision

Date

By App'o

### TRAFFIC CONTROL NOTES - FREDRICKSON RD NW ONLY

- WITH ONE TRAVEL LANE, FOR ONE-WAY NORTHBOUND TRAFFIC ONLY, DURING THE CONSECUTIVE 8-HOUR PERIOD.
- OF CLOSURE. CMS'S SHALL BE LOCATED, AT A MINIMUM, AT THE LOCATIONS SHOWN ON THIS SHEET.
- 4. THE CONTRACTOR SHALL PROVIDE FOR PEDESTRIAN ACCESS AROUND OR THROUGH CONSTRUCTION WORK AT ALL TIMES.
- ROADWAY SURFACE.
- PARATRANSIT SERVICES, AND PORTAL SERVICE AT LEAST TWO WEEKS PRIOR TO ANY CHANGE TO TRAFFIC CONTROL.
- ONE MINIMUM 10' TRAVEL LANE THROUGH WORK ZONE.
- 8. CONSTRUCTION WORK AREA WILL INCLUDE THE NORTHBOUND TRAVEL LANE FOR FREDRICKSON RD NW NEAR THE NW BUCKLIN HILL RD AND FREDRICKSON RD NW INTERSECTION.



	Kitsap County Public Works
18 57	614 Division Street, MS 26
1001	Port Orchard, WA 98366
WASHINGTON	

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND SCHEDULING, INCLUDING ALL TRAFFIC CONTROL DURING CONSTRUCTION, AS IDENTIFIED IN THE WSDOT STANDARD SPECIFICATIONS AND AS AMENDED IN THE CONTRACT.

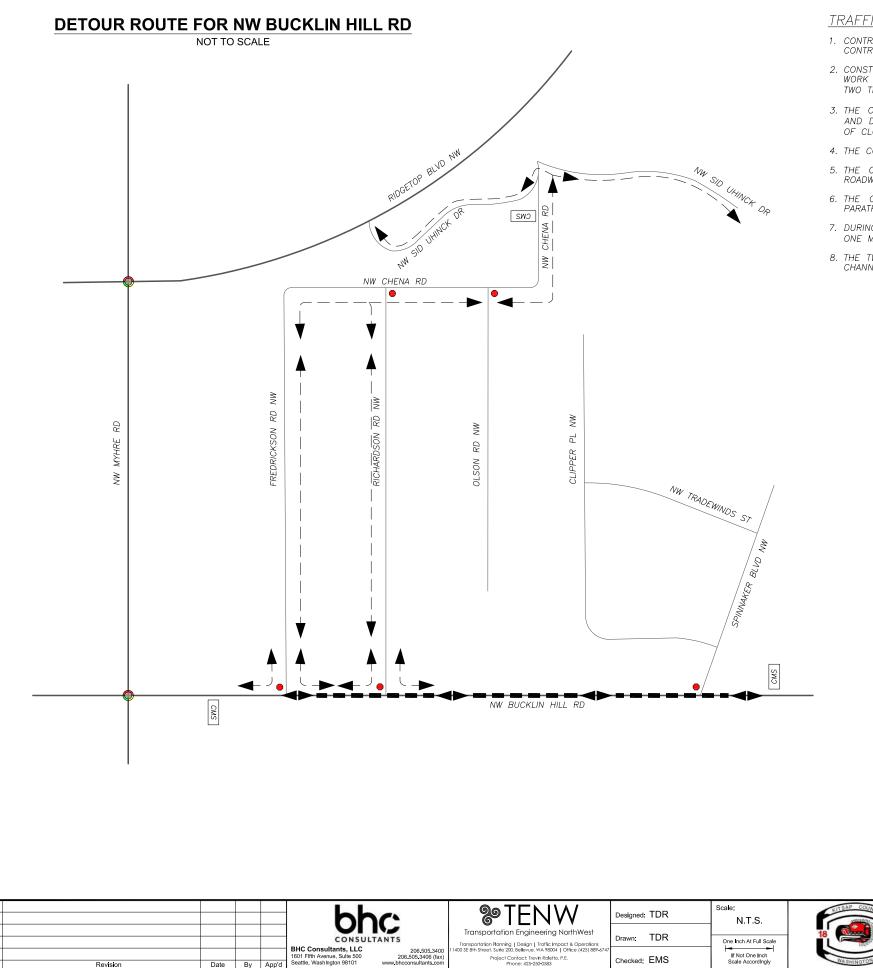
2. CONSTRUCTION ACTIVITY ON ARTERIALS AND LOCAL STREETS IN THE PUBLIC RIGHT OF WAY SHALL BE LIMITED TO WEEKDAYS, AND WORK HOURS SHALL BE ANY CONSECUTIVE 8-HOUR PERIOD BETWEEN 7 AM TO 6 PM. FREDRICKSON RD NW SHALL BE OPENED

3. THE CONTRACTOR SHALL PROVIDE CHANGEABLE MESSAGE SIGNS (CMS) TO INFORM THE TRAVELING PUBLIC OF UPCOMING CLOSURE AND DETOURS. CMS'S SHALL BE PLACED ALONG THE CONSTRUCTION ROUTE AND DETOUR ROUTE AT LEAST TWO WEEKS IN ADVANCE

5. THE CONTRACTOR SHALL POST MOTORCYCLE SUPPLEMENTAL WARNING SIGNS FOR WORK ZONES WITH STEEL PLATES OR UNEVEN

6. THE CONTRACTOR SHALL COORDINATE WITH EMERGENCY SERVICE PROVIDER, CENTRAL KITSAP SCHOOL DISTRICT, KITSAP TRANSIT,

7. DURING LANE CLOSURE THE CONTRACTOR SHALL MAINTAIN LOCAL ACCESS TO ALL PROPERTIES IN THE CLOSED AREA AND MAINTAIN



### TRAFFIC CONTROL NOTES - NW BUCKLIN HILL RD ONLY

- 4. THE CONTRACTOR SHALL PROVIDE FOR PEDESTRIAN ACCESS AROUND OR THROUGH CONSTRUCTION WORK AT ALL TIMES.
- ROADWAY SURFACE.
- ONE MINIMUM 10' TRAVEL LANE THROUGH WORK ZONE.



Kitsap County Public Works

57 614 Division Street, MS 26

Port Orchard, WA 98366

TRAFFIC CONTROL PLAN LEGEND

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND SCHEDULING, INCLUDING ALL TRAFFIC CONTROL DURING CONSTRUCTION, AS IDENTIFIED IN THE WSDOT STANDARD SPECIFICATIONS AND AS AMENDED IN THE CONTRACT.

2. CONSTRUCTION ACTIVITY ON ARTERIALS AND LOCAL STREETS IN THE PUBLIC RIGHT OF WAY SHALL BE LIMITED TO WEEKDAYS, AND WORK HOURS SHALL BE ANY CONSECUTIVE 8-HOUR PERIOD BETWEEN 7 AM TO 6 PM. NW BUCKLIN HILL RD SHALL BE OPENED WITH TWO TRAVEL LANES FOR TWO-WAY TRAFFIC (WESTBOUND AND EASTBOUND) DURING THE CONSECUTIVE 8-HOUR PERIOD.

3. THE CONTRACTOR SHALL PROVIDE CHANGEABLE MESSAGE SIGNS (CMS) TO INFORM THE TRAVELING PUBLIC OF UPCOMING CLOSURE AND DETOURS. CMS'S SHALL BE PLACED ALONG THE CONSTRUCTION ROUTE AND DETOUR ROUTE AT LEAST TWO WEEKS IN ADVANCE OF CLOSURE. CMS'S SHALL BE LOCATED, AT A MINIMUM, AT THE LOCATIONS SHOWN ON THIS SHEET.

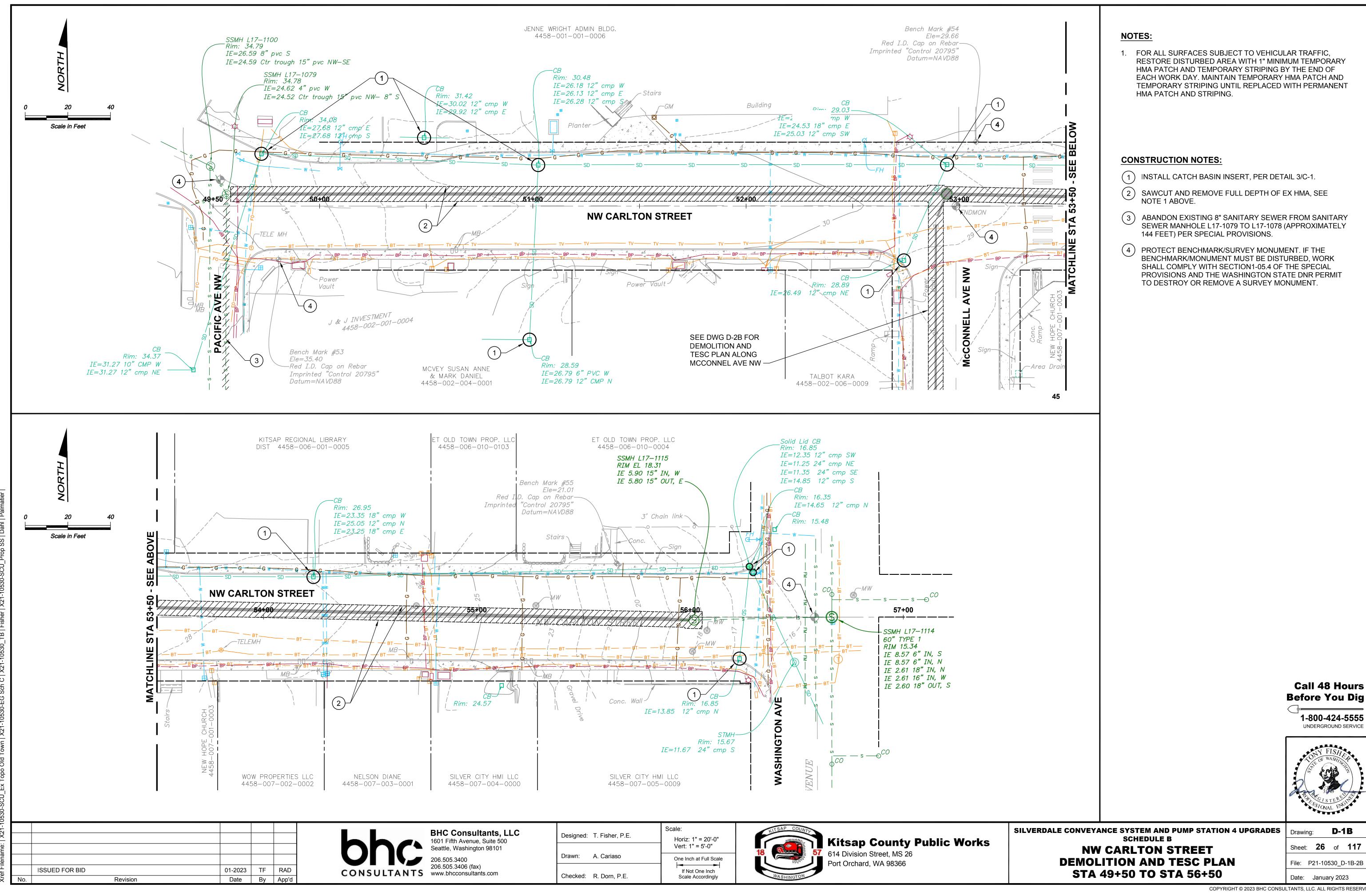
5. THE CONTRACTOR SHALL POST MOTORCYCLE SUPPLEMENTAL WARNING SIGNS FOR WORK ZONES WITH STEEL PLATES OR UNEVEN

6. THE CONTRACTOR SHALL COORDINATE WITH EMERGENCY SERVICE PROVIDER, CENTRAL KITSAP SCHOOL DISTRICT, KITSAP TRANSIT, PARATRANSIT SERVICES, AND PORTAL SERVICE AT LEAST TWO WEEKS PRIOR TO ANY CHANGE TO TRAFFIC CONTROL.

7. DURING LANE CLOSURE THE CONTRACTOR SHALL MAINTAIN LOCAL ACCESS TO ALL PROPERTIES IN THE CLOSED AREA AND MAINTAIN

8. THE TWO-WAY LEFT TURN LANE SHALL BE USED FOR WESTBOUND TRAFFIC, ALONG NW BUCKLIN HILL RD, DURING CONSTRUCTION WITH CHANNELIZING DEVICES. IF NEEDED, FLAGGER CONTROL SHALL BE USED TO MAINTAIN TWO-WAY TRAFFIC ALONG NW BUCKLIN HILL RD.

	DESCRIPTION		
	TWO WAY ROUTE		
	STOP SIGN		
)	TRAFFIC SIGNAL	N	
S	CHANGEABLE MESSAGE SIGN		Call 48 Hours
•	ALTERNATIVE ROUTE		Before You Dig 
			UNDERGROUND SERVICE
			01-06-2023
SILVERDALE (	CONVEYANCE SYSTE	M AND PUMP STATION 4 UPGRADES	Drawing: TC-2A
		DULE A	Sheet: 25 Of <b>117</b>
		NTROL PLANS	File: KP-MASTER TCP
	NW BUCKI	_IN HILL RD	Date: JANUARY 2023



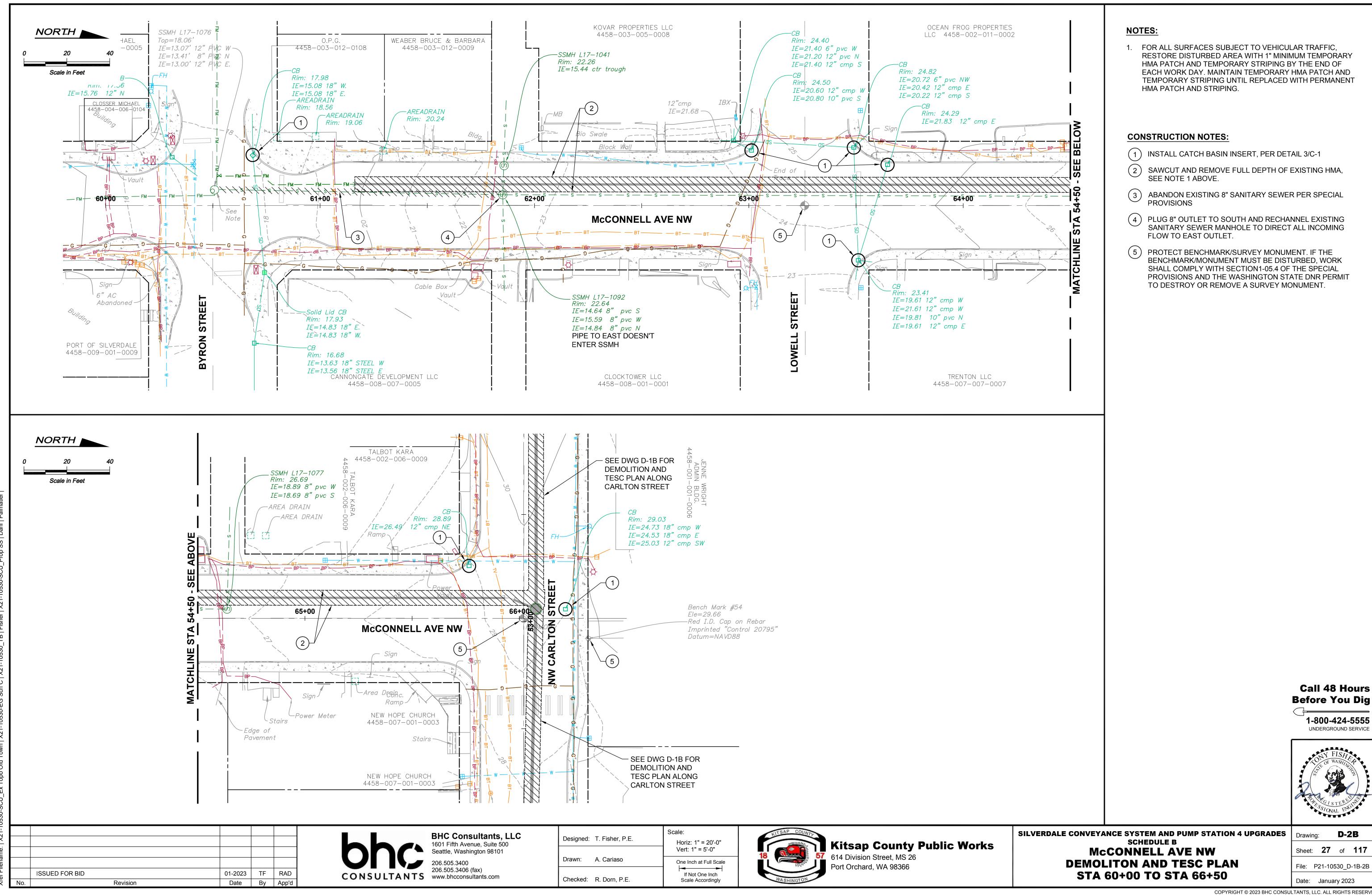
Jan 06, 2023-03: \_Prop SS | Dahl | \_D-1B-2E er | X21-X21-105 4 Upgr\Design\d 10530-EG Sch C | wn I X21old 8 X

ants, LLC Suite 500	Designed: T. Fisher, P.E.	Scale: Horiz: 1" = 20'-0"	Kitsap County Public Works	S
n 98101	Drawn: A. Cariaso	Vert: 1" = 5'-0" One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366	
s.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON TOTOTOHOIG, WASHINGTON	

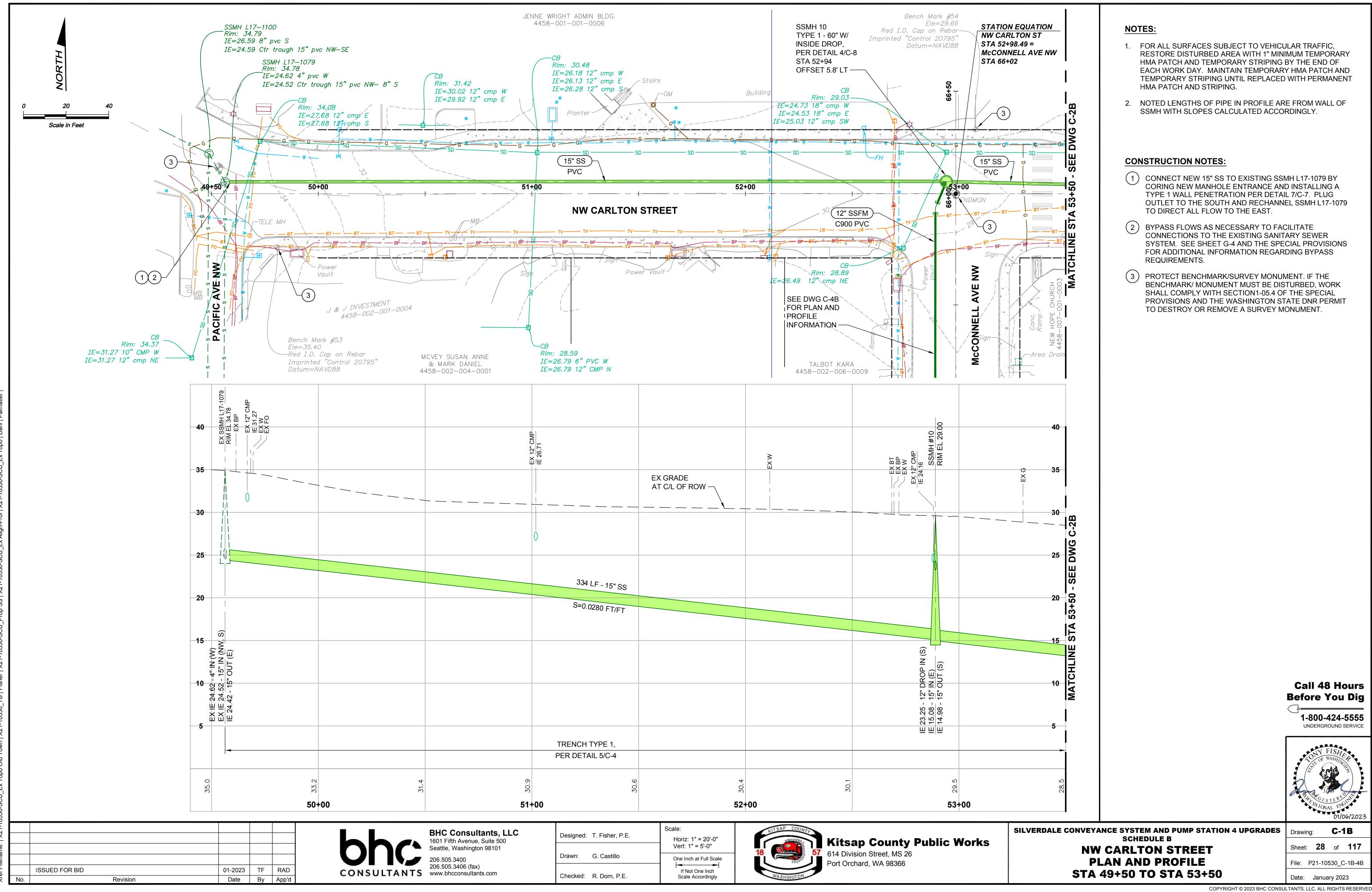
RESTORE DISTURBED AREA WITH 1" MINIMUM TEMPORARY HMA PATCH AND TEMPORARY STRIPING BY THE END OF EACH WORK DAY. MAINTAIN TEMPORARY HMA PATCH AND TEMPORARY STRIPING UNTIL REPLACED WITH PERMANENT

- SEWER MANHOLE L17-1079 TO L17-1078 (APPROXIMATELY
- BENCHMARK/MONUMENT MUST BE DISTURBED, WORK SHALL COMPLY WITH SECTION1-05.4 OF THE SPECIAL PROVISIONS AND THE WASHINGTON STATE DNR PERMIT

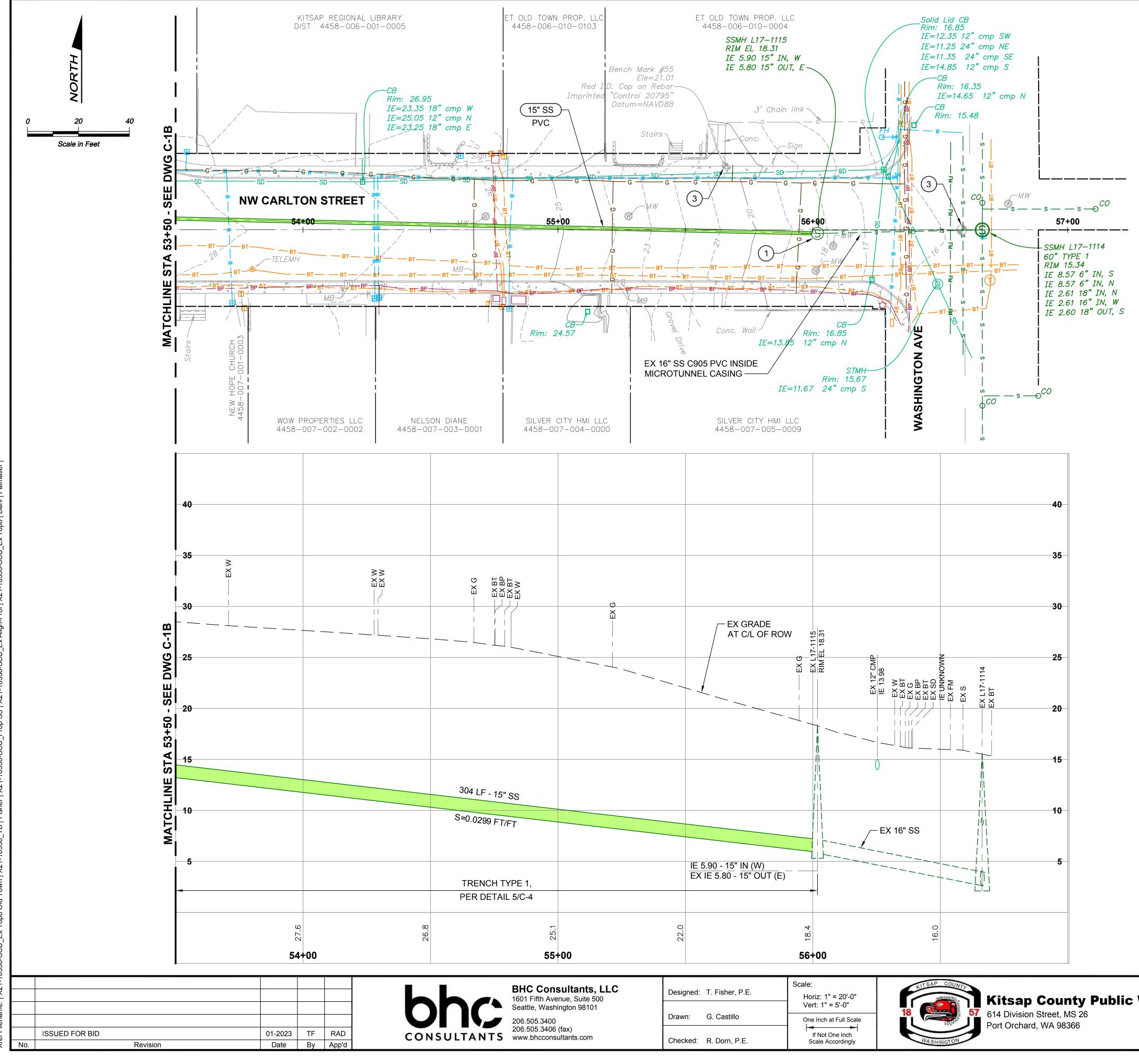
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Pa 32: date: Jan 06, 2023-03. SCU\_Prop SS | Dahl | 7101 1530 :onvey-PS 4 Upgr\Design\d Filename: P21-10530\_D-1B-2B own | X21-10530-EG Sch C | X21-10530\_TB | Fisher | X21-1 liverdale opo Old <sup>-</sup> 10530 U\_Ex X ap



USEL: JLIN SCU\_Ex <sup>-</sup> CAD 0530 X21-: Jan 06, 2 -SCU\_Ex / 10530\_C-1B-4B Plot date: :CU\_Prop SS | X21-10530-P21 X21-:onvey-PS 4 Upgr\Desig own | X21-10530\_TB | F liverdale opo Old <sup>-</sup> 8 X



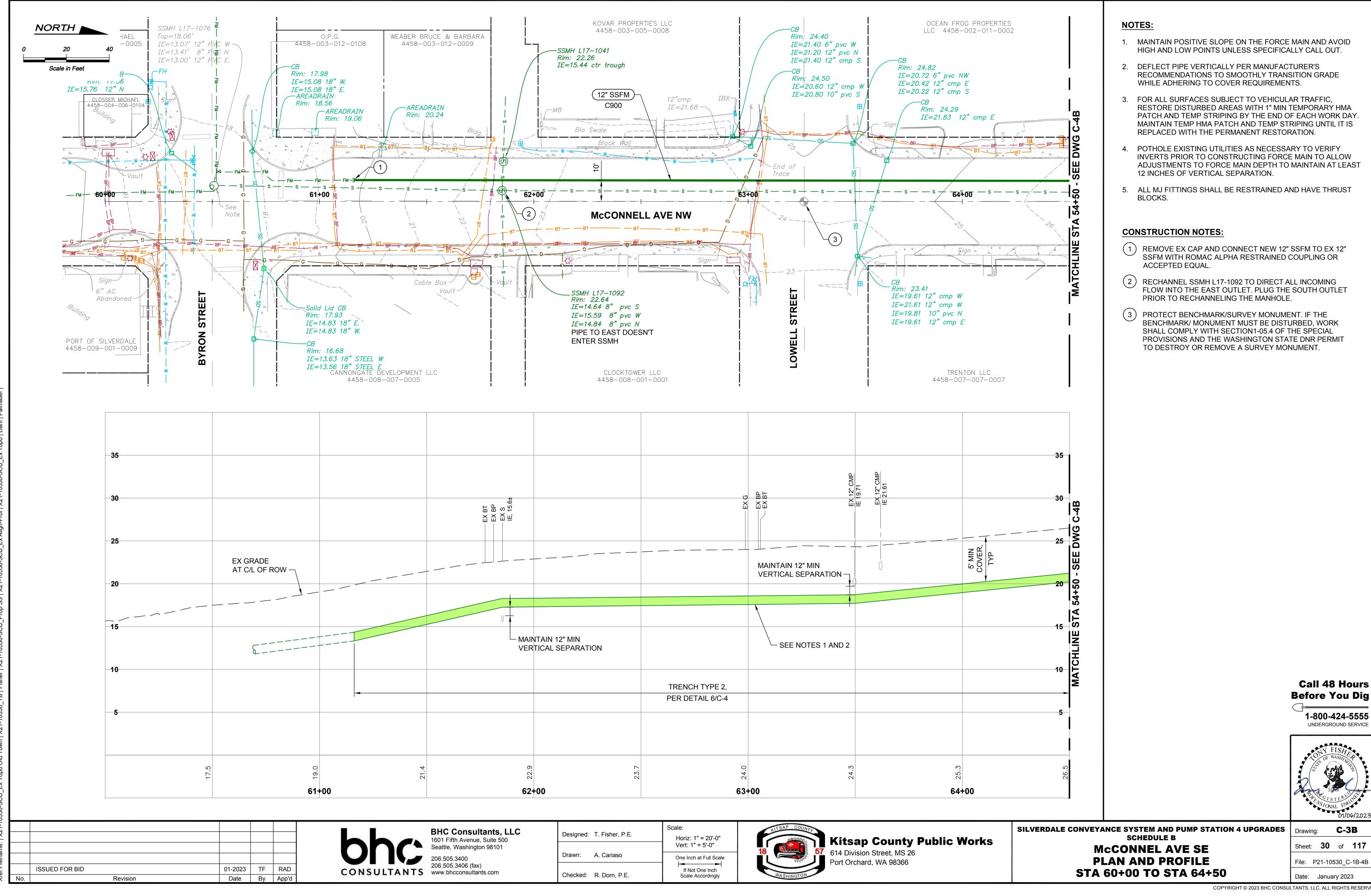
:55pm CAD User: JLira. | X21-10530-SCU\_Ex Tol ilename: P21-10530\_C-1B-4B Plot date: Jan 06, 2 X21-10530-SCU\_Prop SS | X21-10530-SCU\_Ex Silverdale Convey-PS 4 Upgr\Design\d Topo Old Town | X21-10530\_TB | Fish 10530 U\_Ex ξ ģ X2 ef.

ants, LLC Guite 500 98101	Designed: T. Fisher, P.E.	Scale: Horiz: 1" = 20'-0" Vert: 1" = 5'-0"	Kitsap County Public Works	
	Drawn: G. Castillo	One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366	
s.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON WASHINGTON	

	<ul> <li>NOTES:</li> <li>1. FOR ALL SURFACES SUBJECT TO VEHICU RESTORE DISTURBED AREA WITH 1" MINI HMA PATCH AND TEMPORARY STRIPING I EACH WORK DAY. MAINTAIN TEMPORARY TEMPORARY STRIPING UNTIL REPLACED HMA PATCH AND STRIPING.</li> <li>2. BYPASS FLOWS AS NECESSARY TO FACIL CONNECTIONS TO THE EXISTING SANITAL SYSTEM. SEE SHEET G-4 AND THE SPECT FOR ADDITIONAL INFORMATION REGARDI REQUIREMENTS.</li> </ul>	MUM TEMPORARY BY THE END OF Y HMA PATCH AND WITH PERMANENT LITATE RY SEWER AL PROVISIONS
	(1) CONNECT NEW 15" SS TO EXISTING SSM CORING NEW MANHOLE ENTRANCE AND TYPE 1 WALL PENETRATION PER DETAIL MANHOLE AS NECESSARY.	D INSTALLING A
	2 BYPASS FLOWS AS NECESSARY TO FAC CONNECTIONS TO THE EXISTING SANITA SYSTEM. SEE SHEET G-4 AND THE SPEC FOR ADDITIONAL INFORMATION REGARD REQUIREMENTS.	ARY SEWER CIAL PROVISIONS
	3 PROTECT BENCHMARK/SURVEY MONUN BENCHMARK/ MONUMENT MUST BE DIS SHALL COMPLY WITH SECTION1-05.4 OF PROVISIONS AND THE WASHINGTON ST TO DESTROY OR REMOVE A SURVEY MO	TURBED, WORK THE SPECIAL ATE DNR PERMIT
		Call 48 Hours Before You Dig
		1-800-424-5555 UNDERGROUND SERVICE
		TONY FISHER TONY FISHER STONAL ENGLISHER STONAL ENGLISHER 01/06/2023
SILVERDALE CONVEYA	ANCE SYSTEM AND PUMP STATION 4 UPGRADES	Drawing: C-2B
	SCHEDULE B CARLTON STREET	Sheet: <b>29</b> of <b>117</b>
	LAN AND PROFILE	File: P21-10530_C-1B-4B

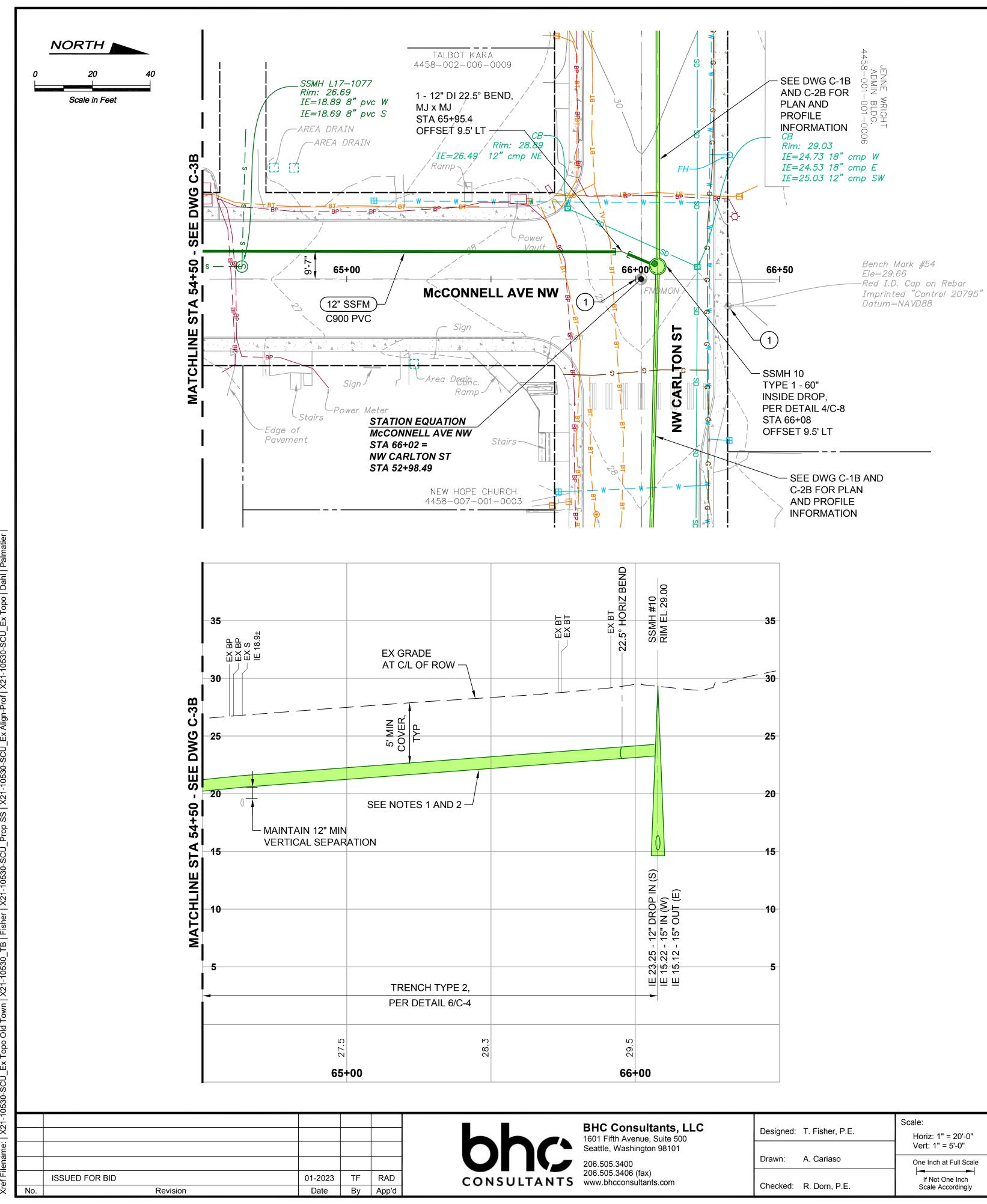
STA 53+50 TO STA 56+50

Date: January 2023



User: JLiri SCU\_Ex <sup>-</sup> X21--SCU\_E -10530\_C-1B-4B Plot date: SCU\_Prop SS | X21-10530 ilename: P21-| X21-10530-S onvey-PS 4 Upgr\Desig wn | X21-10530\_TB | F iveraale opo Old <sup>-</sup> 8 X

<b>nts, LLC</b> uite 500 98101	Designed: T. Fisher, P.E. Drawn: A. Cariaso	Scale: Horiz: 1" = 20'-0" Vert: 1" = 5'-0" One Inch at Full Scale	18 <b>Kitsap County Public Works</b> 614 Division Street, MS 26
com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	Port Orchard, WA 98366



User: JLira. -SCU\_Ex To CAD 0530-52pm X21lename: P21-10530\_C-1B-4B Plot date: Jan 06, 2 X21-10530-SCU\_Prop SS | X21-10530-SCU\_Ex :onvey-PS 4 Upgr\Design\d own | X21-10530\_TB | Fish ilverdale opo Old <sup>-</sup> 10530 U\_Ex X2 X2

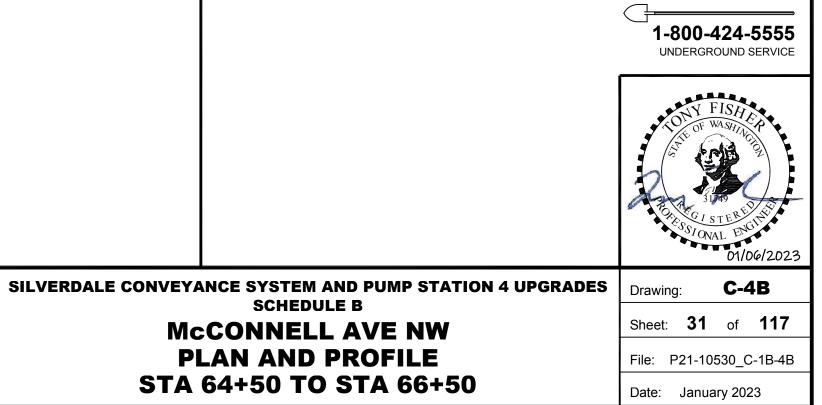
<b>tants, LLC</b> , Suite 500 on 98101	Designed: T. Fisher, P.E.	Scale: Horiz: 1" = 20'-0" Vert: 1" = 5'-0"	<b>Kitsap County Public Works</b> <b>18</b> 614 Division Street MS 26
	Drawn: A. Cariaso	One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366
) hts.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON

|--|

- MAINTAIN POSITIVE SLOPE ON THE FORCE MAIN AND AVOID 1. HIGH AND LOW POINTS UNLESS SPECIFICALLY CALL OUT.
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- 5. ALL MJ FITTINGS SHALL BE RESTRAINED AND HAVE THRUST BLOCKS.

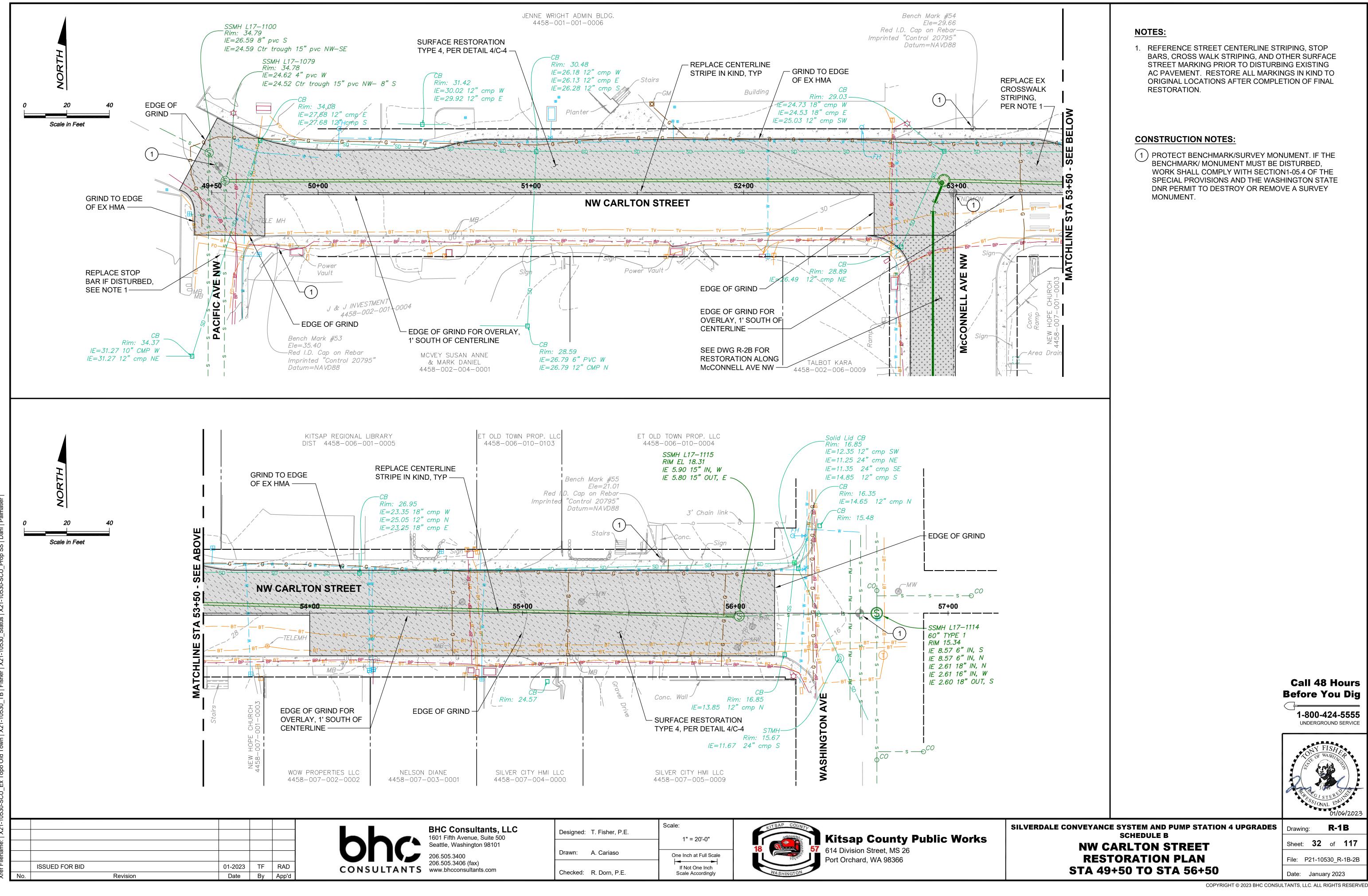
### **CONSTRUCTION NOTES:**

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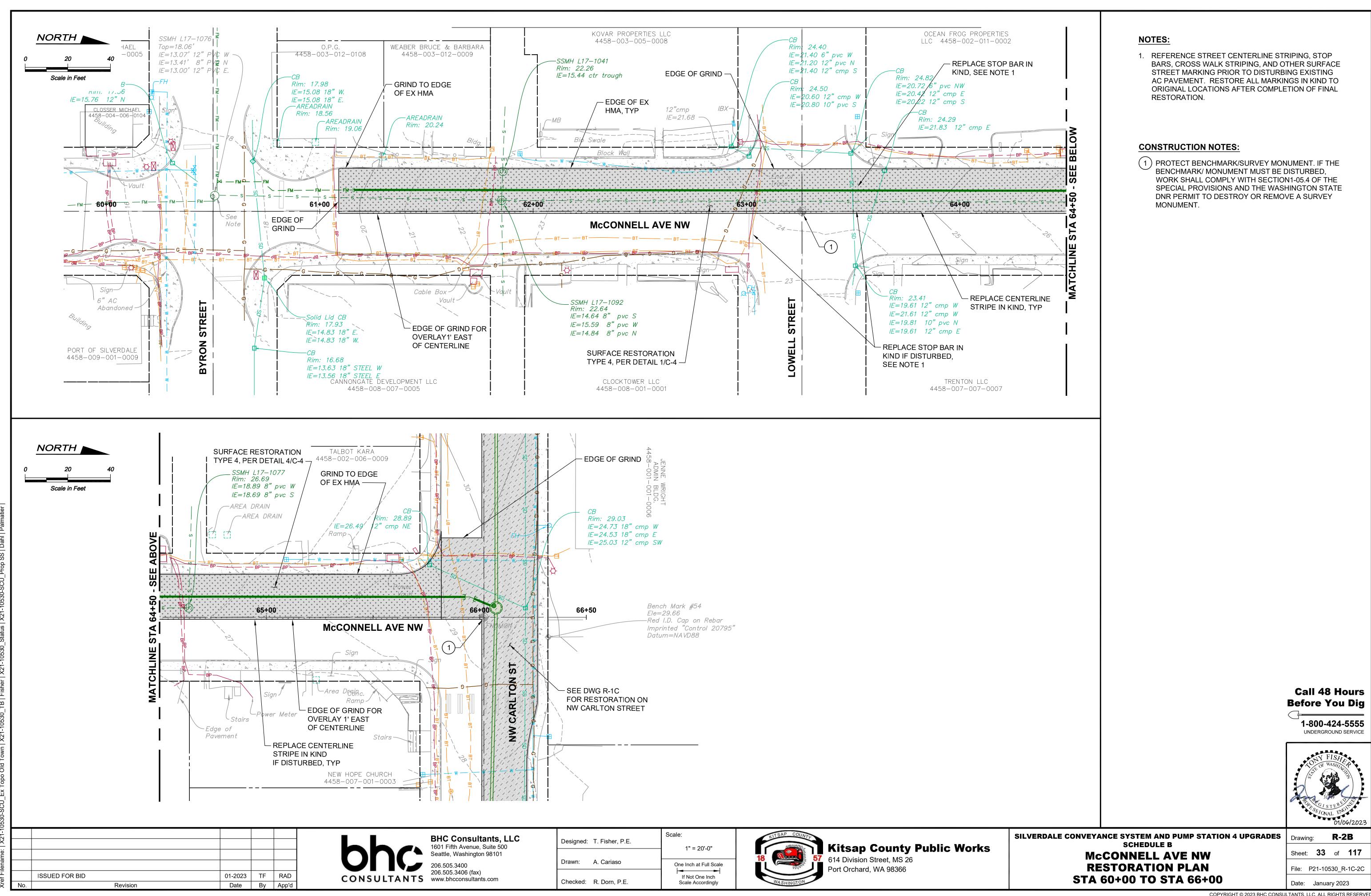
Call 48 Hours

**Before You Dig** 



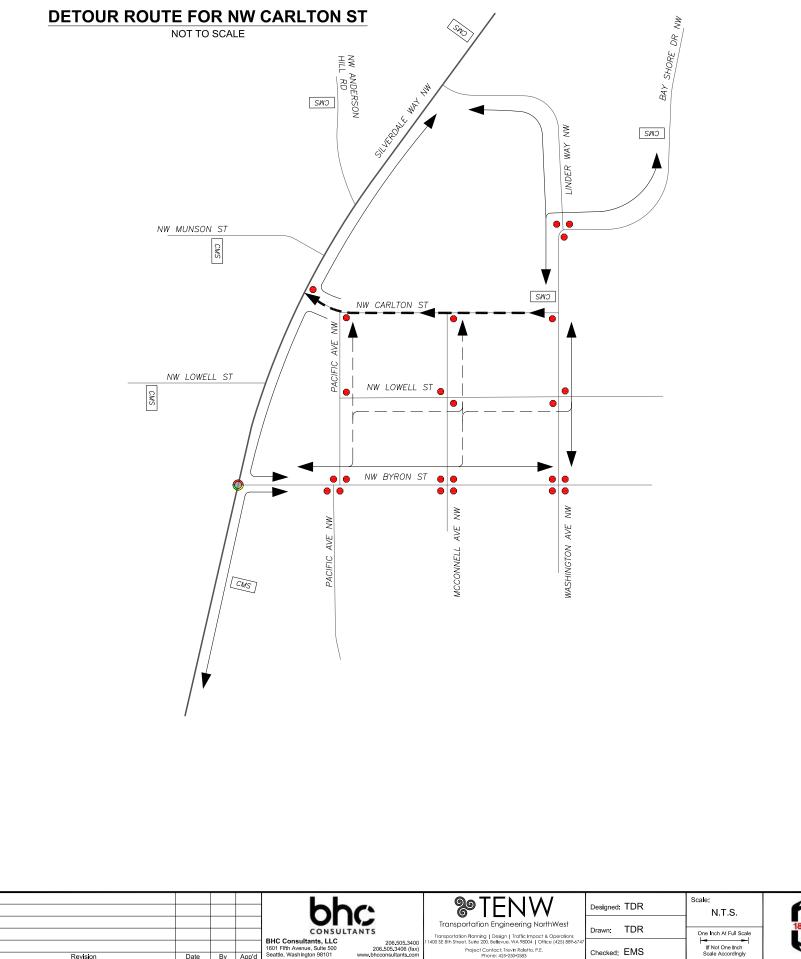
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ants, LLC Suite 500 98101	Designed: T. Fisher, P.E.		Kitsap County Public Works	SIL
	Drawn: A. Cariaso	One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366	
s.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON	



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nsultants, LLC venue, Suite 500 shington 98101	Designed: T. Fisher, P.E.	Scale: 1" = 20'-0"		Kitsap Count
10 16 (fax)	Drawn: A. Cariaso	One Inch at Full Scale	18 57	614 Division Street, MS Port Orchard, WA 98366
isultants.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON	



Revision

Date

By App'c

www.t

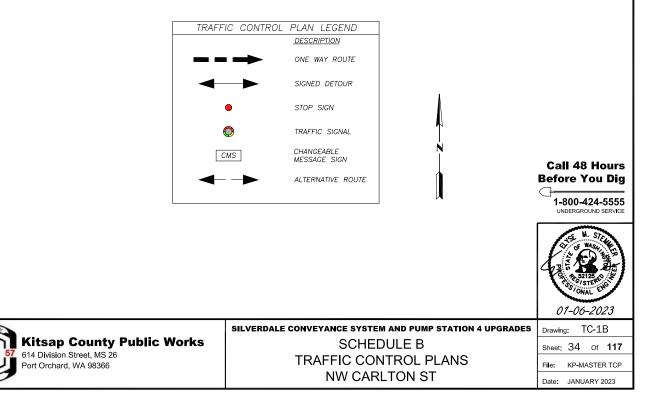
### TRAFFIC CONTROL NOTES - NW CARLTON ST ONLY

- OF CLOSURE. CMS'S SHALL BE LOCATED, AT A MINIMUM, AT THE LOCATIONS SHOWN ON THIS SHEET.
- ROADWAY SURFACE.
- ONE MINIMUM 10' TRAVEL LANE THROUGH WORK ZONE.
- WASHINGTON AVE NW.

ale

614 Division Street, MS 26

Port Orchard, WA 98366



1. CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND SCHEDULING, INCLUDING ALL TRAFFIC CONTROL DURING CONSTRUCTION, AS IDENTIFIED IN THE WSDOT STANDARD SPECIFICATIONS AND AS AMENDED IN THE CONTRACT.

2. CONSTRUCTION ACTIVITY ON ARTERIALS AND LOCAL STREETS IN THE PUBLIC RIGHT OF WAY SHALL BE LIMITED TO WEEKDAYS, AND WORK HOURS SHALL BE ANY CONSECUTIVE 8-HOUR PERIOD BETWEEN 7 AM TO 6 PM. NW CARLTON ST SHALL BE OPENED WITH ONE TRAVEL LANE, FOR ONE-WAY WESTBOUND TRAFFIC ONLY, DURING THE CONSECUTIVE 8-HOUR PERIOD.

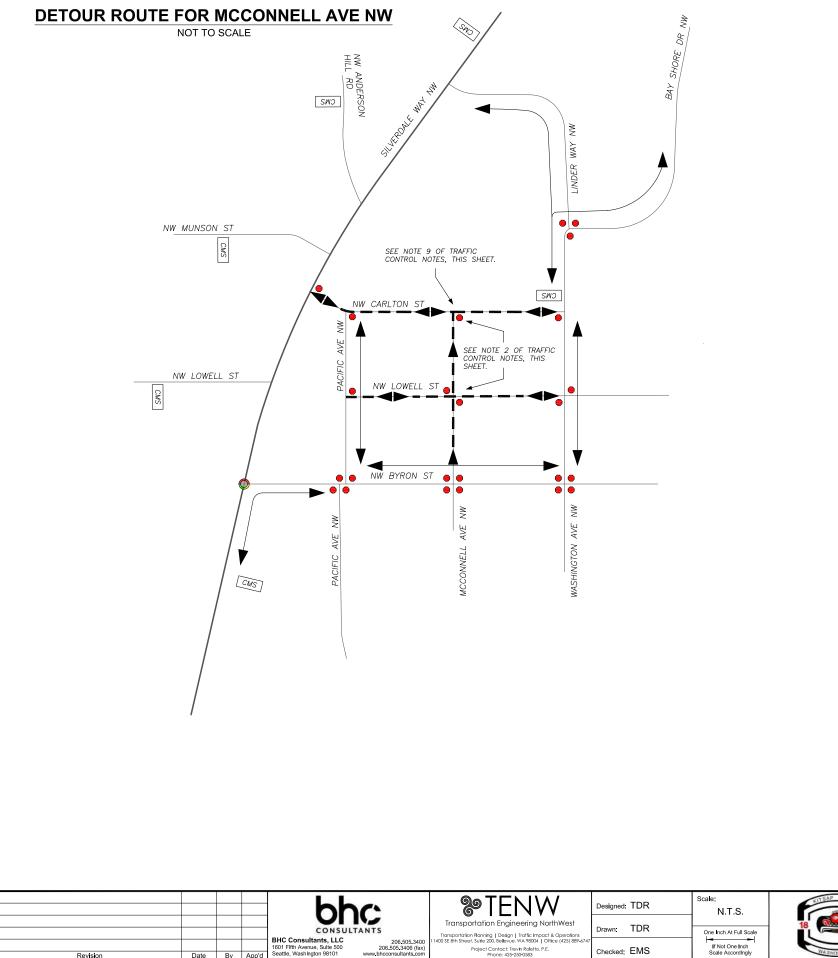
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4. THE CONTRACTOR SHALL PROVIDE FOR PEDESTRIAN ACCESS AROUND OR THROUGH CONSTRUCTION WORK AT ALL TIMES.

5. THE CONTRACTOR SHALL POST MOTORCYCLE SUPPLEMENTAL WARNING SIGNS FOR WORK ZONES WITH STEEL PLATES OR UNEVEN

6. THE CONTRACTOR SHALL COORDINATE WITH EMERGENCY SERVICE PROVIDER, CENTRAL KITSAP SCHOOL DISTRICT, KITSAP TRANSIT, PARATRANSIT SERVICES, AND PORTAL SERVICE AT LEAST TWO WEEKS PRIOR TO ANY CHANGE TO TRAFFIC CONTROL. 7. DURING LANE CLOSURE THE CONTRACTOR SHALL MAINTAIN LOCAL ACCESS TO ALL PROPERTIES IN THE CLOSED AREA AND MAINTAIN

8. CONSTRUCTION WORK AREA WILL INCLUDE THE WESTBOUND TRAVEL LANE FOR NW CARLTON ST FROM PACIFIC AVE NW TO



### TRAFFIC CONTROL NOTES - MCCONNELL AVE NW ONLY

- OPENED FOR ONE-WAY NORTHBOUND TRAFFIC ONLY, DURING THE CONSECUTIVE 8-HOUR PERIOD.

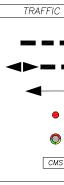
- ROADWAY SURFACE.
- ONE MINIMUM 10' TRAVEL LANE THROUGH WORK ZONE.
- RYRON ST
- FOR CONSTRUCTION WITHIN THE INTERSECTION.

Kitsap County Public Works

614 Division Street, MS 26

Port Orchard, WA 98366

- CARLTON ST AND MCCONNELL AVE NW.



1. CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND SCHEDULING, INCLUDING ALL TRAFFIC CONTROL DURING CONSTRUCTION, AS IDENTIFIED IN THE WSDOT STANDARD SPECIFICATIONS AND AS AMENDED IN THE CONTRACT.

2. CONSTRUCTION ACTIVITY ON ARTERIALS AND LOCAL STREETS IN THE PUBLIC RIGHT OF WAY SHALL BE LIMITED TO WEEKDAYS, AND WORK HOURS SHALL BE ANY CONSECUTIVE 8-HOUR PERIOD BETWEEN 7 AM TO 6 PM. NW LOWELL ST AND NW CARLTON ST SHALL BE OPENED FOR TWO-WAY TRAFFIC (WESTBOUND AND EASTBOUND) DURING THE CONSECUTIVE 8-HOUR PERIOD. THE INTERSECTIONS OF NW CARLTON ST / MCCONNELL AVE NW AND NW LOWELL ST / MCCONNELL AVE NW SHALL BE ONE-WAY TRAFFIC, WITH FLAGGER CONTROL, TO ALLOW TWO-WAY ACCESS DURING CONSTRUCTION WITHIN THE INTERSECTION. MCCONNELL AVE NW SHALL BE OPENED FOR DURY NOPTUDE DURY DURING CONSTRUCTION WITHIN THE INTERSECTION. MCCONNELL AVE NW SHALL BE OPENED FOR DURY NOPTUDE DURY DURING CONSTRUCTION WITHIN THE INTERSECTION. MCCONNELL AVE NW SHALL BE OPENED FOR DURY NOPTUDE DURY DURING THE CONSECUTIVE REVENUE DEFICION.

3. THE CONTRACTOR SHALL PROVIDE CHANGEABLE MESSAGE SIGNS (CMS) TO INFORM THE TRAVELING PUBLIC OF UPCOMING CLOSURE AND DETOURS. CMS'S SHALL BE PLACED ALONG THE CONSTRUCTION ROUTE AND DETOUR ROUTE AT LEAST TWO WEEKS IN ADVANCE OF CLOSURE. CMS'S SHALL BE LOCATED, AT A MINIMUM, AT THE LOCATIONS SHOWN ON THIS SHEET.

4 THE CONTRACTOR SHALL PROVIDE FOR PEDESTRIAN ACCESS AROUND OR THROUGH CONSTRUCTION WORK AT ALL TIMES

5. THE CONTRACTOR SHALL POST MOTORCYCLE SUPPLEMENTAL WARNING SIGNS FOR WORK ZONES WITH STEEL PLATES OR UNEVEN

6. THE CONTRACTOR SHALL COORDINATE WITH EMERGENCY SERVICE PROVIDER, CENTRAL KITSAP SCHOOL DISTRICT, KITSAP TRANSIT, PARATRANSIT SERVICES, AND PORTAL SERVICE AT LEAST TWO WEEKS PRIOR TO ANY CHANGE TO TRAFFIC CONTROL.

7. DURING LANE CLOSURE THE CONTRACTOR SHALL MAINTAIN LOCAL ACCESS TO ALL PROPERTIES IN THE CLOSED AREA AND MAINTAIN

8. CONSTRUCTION WORK AREA WILL INCLUDE THE SOUTHBOUND TRAVEL LANE FOR MCCONNELL AVE NW FROM NW CARLTON ST TO NW

9. CONTRACTOR SHALL CLOSE THE NORTHBOUND LEFT TURN MOVEMENT AT INTERSECTION OF NW CARLTON ST / MCCONNELL AVE NW

9.1. INTERSECTION WORK SHALL BE COMPLETED BEFORE THE START OF CONSTRUCTION ALONG MCCONNELL AVE NW OR AFTER THE CONSTRUCTION ALONG MCCONNELL AVE NW HAS BEEN COMPLETED UP TO THE INTERSECTION. FLAGGER CONTROL SHALL BE USED TO MAINTAIN TWO-WAY TRAFFIC ALONG NW CARLTON ST DURING WORK AT THE INTERSECTION OF NW

9.2. WHEN NORTHBOUND LEFT TURN IS CLOSED THROUGH THE INTERSECTION, DETOUR NORTHBOUND TRAFFIC ALONG MCCONNELL AVE NW TO WESTBOUND ON NW CARLTON ST TO WASHINGTON AVE NW.

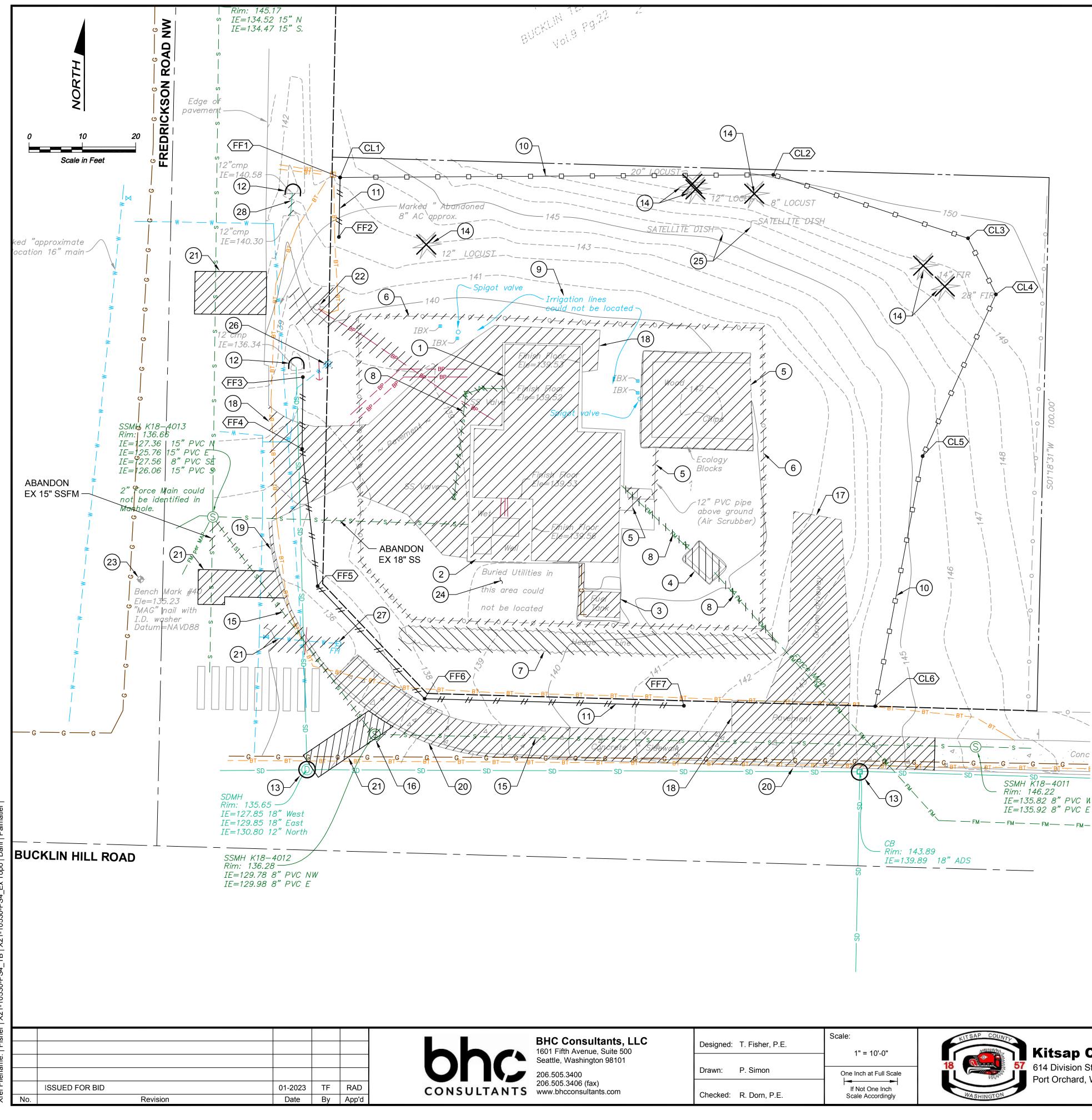
CONTROL	PLAN LEGEND
	DESCRIPTION
	ONE WAY ROUTE
╸◀►	TWO WAY ROUTE
	SIGNED DETOUR
	STOP SIGN
I	TRAFFIC SIGNAL
5	CHANGEABLE MESSAGE SIGN

Call 48 Hours **Before You Dig** 





SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES Drawing: TC-2B SCHEDULE B Sheet: 35 Of **117** TRAFFIC CONTROL PLANS File: KP-MASTER TCP MCCONNELL AVE NW Date: JANUARY 2023



TB | X21-X21

### **CONSTRUCTION NOTES:**

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NUMENT MUST /ITH SECTION1- THE WASHING <sup>-</sup> REMOVE A SUR E AND DISPOSE

(28) REMOVE EXISTING 12" CMP.

ants, LLC Suite 500 1 98101	Designed: T. Fisher, P.E.	Scale: 1" = 10'-0"	Kitsap County Public Works
	Drawn: P. Simon	One Inch at Full Scale	<ul> <li>614 Division Street, MS 26</li> <li>Port Orchard, WA 98366</li> </ul>
s.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON

(1) DEMOLISH AND REMOVE THE EXISTING ABOVE GRADE NGS D-2C AND D-3C. JCTURES NOT

> SLAB OF EXISTING WET STRUCTURAL DRAWINGS.

TING DIESEL TANK AND FUEL PIPING.

TING VAULT

TING AIR SCRUBBER, **BLOCKS, WOOD CHIPS** ND APPURTENANCES.

TING FENCE AND GATE

TING HEDGE.

AS SHOWN TO . PROVIDE TEMPORARY LLOWING TATION, REMOVE ALL

**IRRIGATION LINES.** 

FENCING, PER DETAIL

RIC FENCE PER DETAIL 1/C-1

5/C-1.

PER DETAIL 3/C-1.

TING TREE AND STUMP.

SPECIAL PROVISIONS.

EMOVING AND DISPOSING **MH AND FILLING THE** SAND OR CDF.

TING GRAVEL DRIVEWAY.

TING ASPHALT DRIVEWAY.

OF EXISTING CONCRETE

OF EXISTING CONCRETE LOSEST CONSTRUCTION

OF EXISTING ASPHALT

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OF BURIED UTILITIES IN

TING SATELITE DISHES.

VATER METER AND

RANT PER DWG C-2-C.

### NOTES:

- 1. SEE DRAWING G-4 AND SPECIAL PROVISIONS FOR SUGGESTED CONSTRUCTION SEQUENCING AND BYPASS CONSTRUCTIONS/REQUIREMENTS.
- 2. PROTECT ALL EXISTING UTILITIES AND STRUCTURES UNLESS SPECIFICALLY INDICATED TO BE REMOVED OR ABANDONED.
- 3. MAINTAIN ACCESS TO EXISTING LIFT STATION AND SITE FACILITIES FOR COUNTY STAFF AND SERVICE VEHICLES AT ALL TIMES.
- 4. REMOVE EXISTING ASPHALT, GRAVEL, VEGETATION, AND GROUND AS NECESSARY TO ACCOMMODATE UPGRADES. SEE RESTORATION DRAWINGS FOR FINAL SITE RESTORATION REQUIREMENTS.
- 5. SEE DRAWING G-4 FOR ADDITIONAL EROSION AND SEDIMENT CONTROL NOTES.
- 6. ADJUST/REMOVE/REPLACE TESC MEASURES AS NECESSARY TO CONSTRUCT IMPROVEMENTS.
- 7. LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS.

### **COORDINATE CONTROL** |PT #| NORTHING | EASTING DESCRIPTION CL1 242828.22 1186586.43 **CLEARING LIMITS** CL2 242828.72 1186667.66 **CLEARING LIMITS** CL3 242816.83 1186704.18 **CLEARING LIMITS** CL4 242806.30 **CLEARING LIMITS** 1186709.41 CL5 242775.97 1186695.67 **CLEARING LIMITS** CL6 242729.08 1186686.77 CLEARING LIMITS FF1 242828.22 1186586.43 FILTER FABRIC FENCE FF2 242817.06 1186586.20 FILTER FABRIC FENCE FF3 242790.80 1186579.45 FILTER FABRIC FENCE FF4 242777.33 1186579.31 FILTER FABRIC FENCE FF5 242751.60 1186582.22 FILTER FABRIC FENCE FF6 FILTER FABRIC FENCE 242730.49 1186602.28 FF7 1186650.90 FILTER FABRIC FENCE 242729.17

### **COORDINATE CONTROL NOTES:**

- 1. SEE DWG C-1C AND C-7C FOR ADDITIONAL COORDINATE POINTS.
- 2. ADJUST LOCATION OF FILTER FENCE AS NEEDED TO KEEP FENCE DOWNSTREAM OF ALL DISTURBED SOILS.

	1-800-424-5555 UNDERGROUND SERVICE
	TONY FISHE TONY FISHE STILL OF WASHING STILL OF STILL OF STILL STILL OF STILL OF STILL STILL OF STILL OF STILL STILL OF STILL OF STILL OF STILL STILL OF STILL OF STILL OF STILL OF STILL OF STILL STILL OF STILL
RADES	Drawing: <b>D-1C</b>
	Sheet: <b>36</b> of <b>117</b>
	File: P21-10530_D-1C
	Date: January 2023

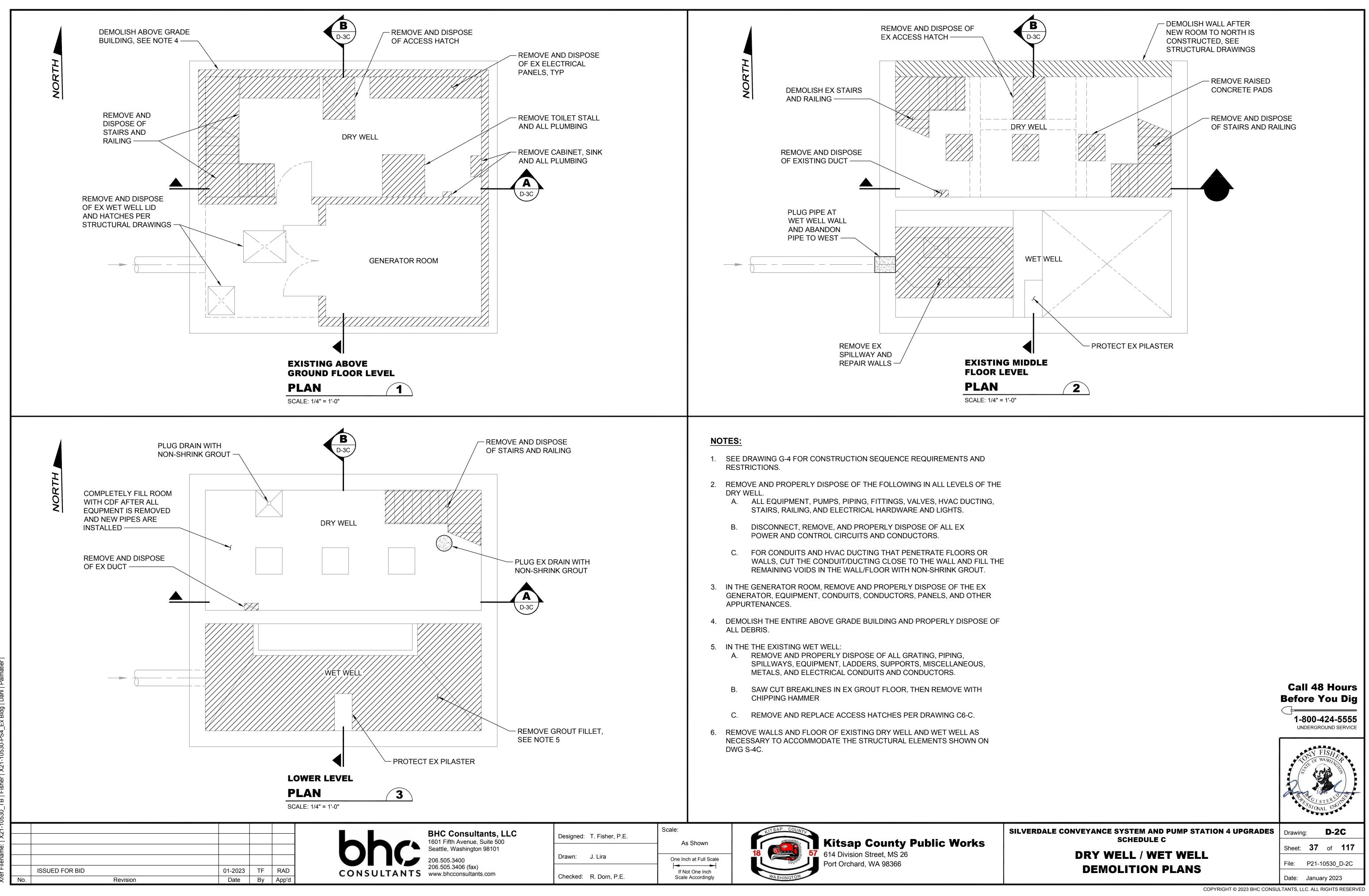
Call 48 Hours

**Before You Dig** 

SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGR SCHEDULE C

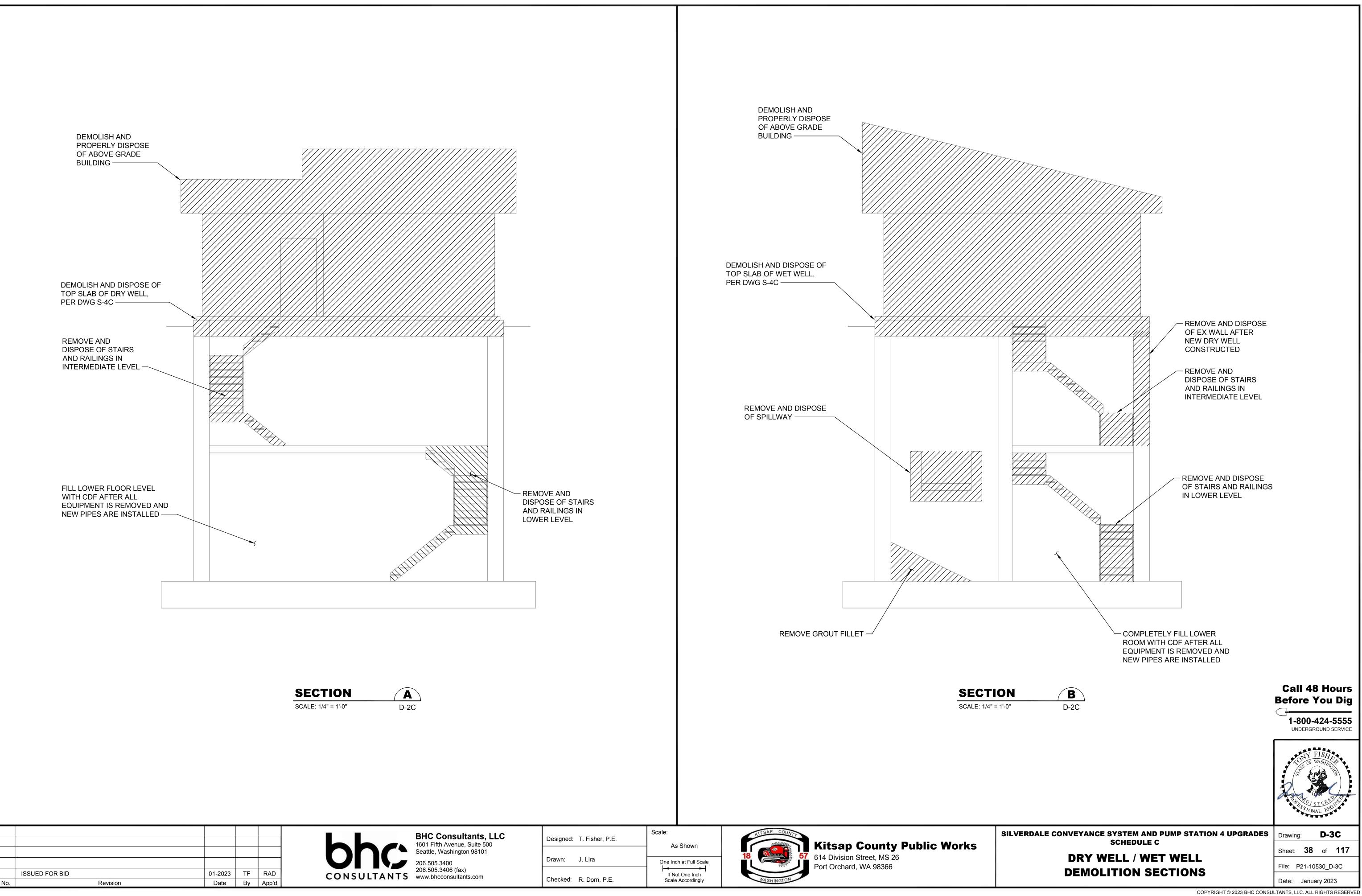
# **DEMOLITION AND TESC PLAN**

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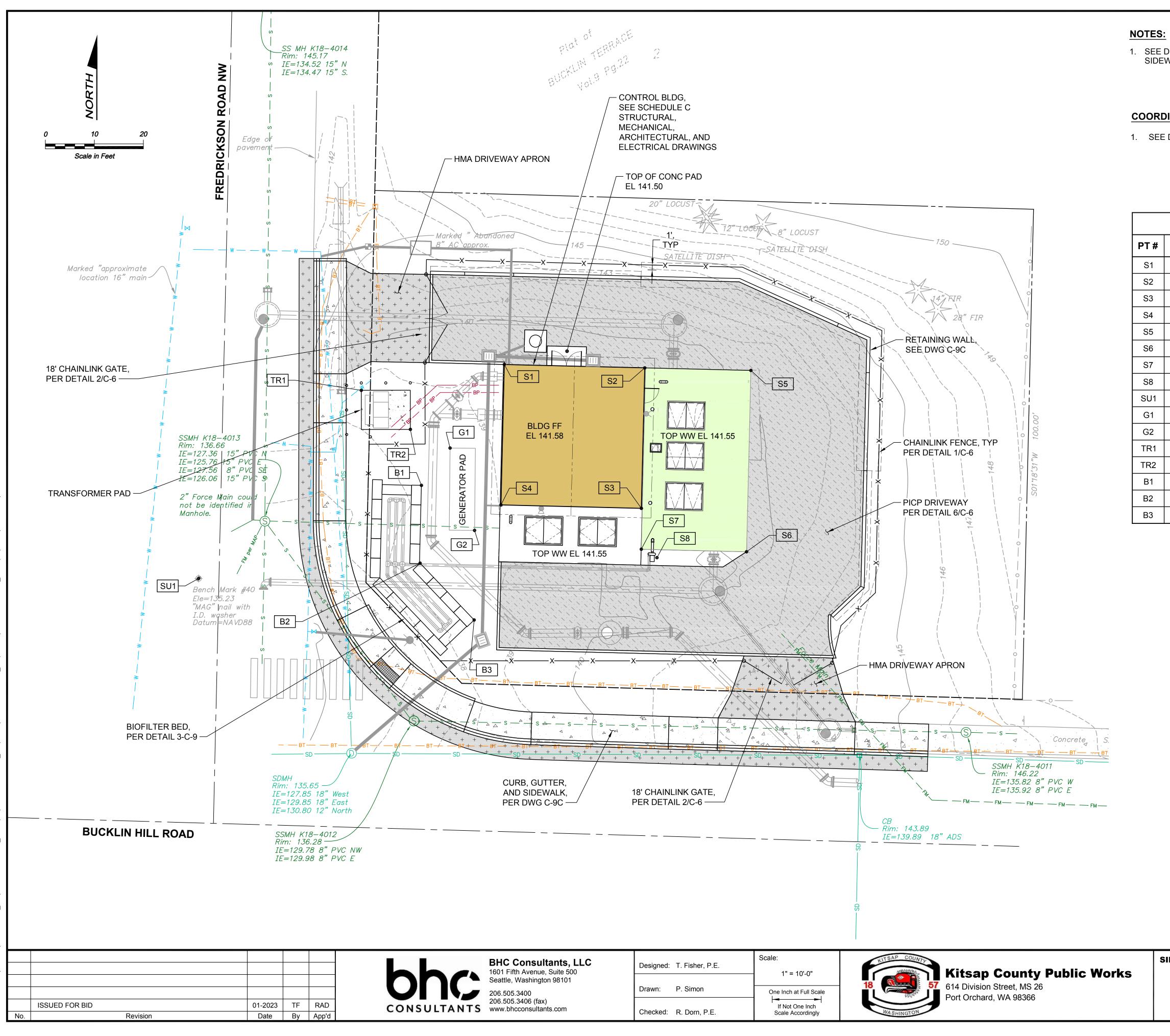
alda I X21-` × g' e X

ants, LLC Suite 500	Designed:	T. Fisher, P.E.	As Shown
98101	Drawn:	J. Lira	One Inch at Full Sc
s.com	Checked:	R. Dorn, P.E.	If Not One Inch Scale According



Silverdale Convey-PS 4 Upgr/Design\d er | X21-10530-PS4\_Ex Bldg | Dahl | P unty/21-10530 0530\_TB | Fish X2 X2 S II ⊃ath: Xref

e 500 101	Designed: T. Fisher, P.E.	As Shown
	Drawn: J. Lira	One Inch at Full Scale
m	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly

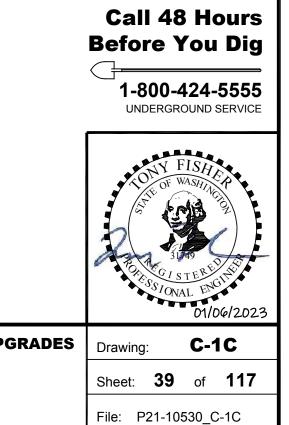


Path: S:\Cad\Kitsap County\21-10530 Silverdale Convey-PS 4 Upgr\Design\d Filename: P21-10530\_C-1C Plot date: Jan 06, 2023-05:52:17pm CAD User: solsoe. Xref Filename: | Fisher | X21-10530\_TB | X21-10530-PS4\_Ex Topo | X21-10530-PS4\_Prop Site | X21-10530-PS4\_Prop HMA | X21-10530-SCU\_Ex Topo | Dahl | Palmatier | 1. SEE DRAWING C-8C FOR GRADING AND DRAINAGE PLAN AND C-9C FOR RETAINING WALL AND SIDEWALK PLAN.

### **COORDINATE CONTROL NOTES:**

1. SEE DWGS D-1C, C-2C, C-8C AND C-9C FOR ADDITIONAL COORDINATE POINTS.

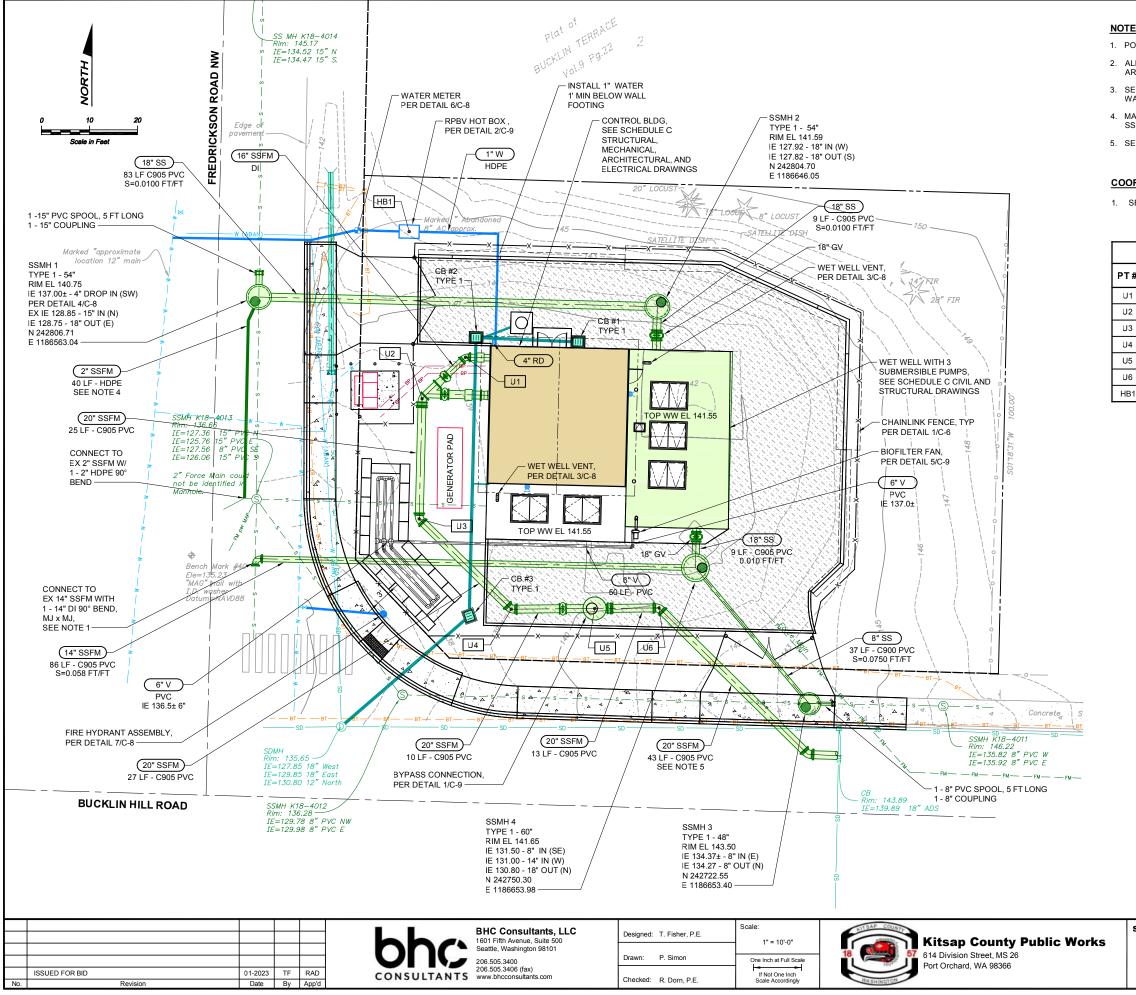
STRUCTURE ELEVATION - COORDINATE CONTROL				
NORTHING	EASTING	ELEVATION	DESCRIPTION	
242796.53	1186611.40	141.08	GROUND AT BUILDING CORNER	
242795.84	1186640.06	141.28	GROUND AT BUILDING CORNER	
242767.18	1186639.37	141.55	BUILDING CORNER AT EX WET WELL	
242767.88	1186610.71	141.55	BUILDING CORNER AT EX WET WELL	
242795.32	1186661.72	141.43	GROUND AT WET WELL CORNER	
242758.33	1186660.83	141.10	GROUND AT WET WELL CORNER	
242758.85	1186639.36	141.55	WET WELL CORNER	
242757.30	1186641.30	141.55	TOP OF BIOFILTER FAN SLAB	
242752.87	1186549.02	135.23	BENCH MARK #1	
242779.49	1186600.33	140.70	TOP OF GENERATOR PAD	
242762.68	1186605.33	140.70	TOP OF GENERATOR PAD	
242791.26	1186582.21	140.20	TOP OF TRANSFORMER PAD	
242783.29	1186592.24	140.20	TOP OF TRANSFORMER PAD	
242771.88	1186594.49		BIOFILTER BED WALL	
242756.00	1186594.22		BIOFILTER BED WALL	
242744.41	1186605.25		BIOFILTER BED WALL	



SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C

# SITE PLAN

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PT# U1

### NOTES:

1. POTHOLE EXISTING SSFM AT CONNECTION POINT TO VERIFY ELEVATIONS.

2. ALL NEW PIPE JOINTS ON PRESSURIZED PIPE AND ALL BURIED FITTINGS WITHIN THE PROJECT AREA SHALL BE RESTRAINED UNLESS NOTED OTHERWISE

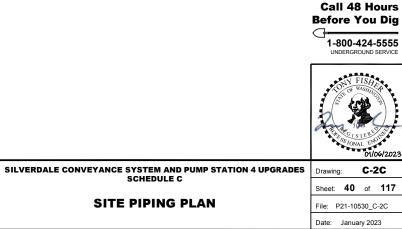
3. SEE DRAWING C-8C FOR GRADING AND DRAINAGE PLAN AND DRAWING C-9C FOR RETAINING WALL AND SIDEWALK PLAN.

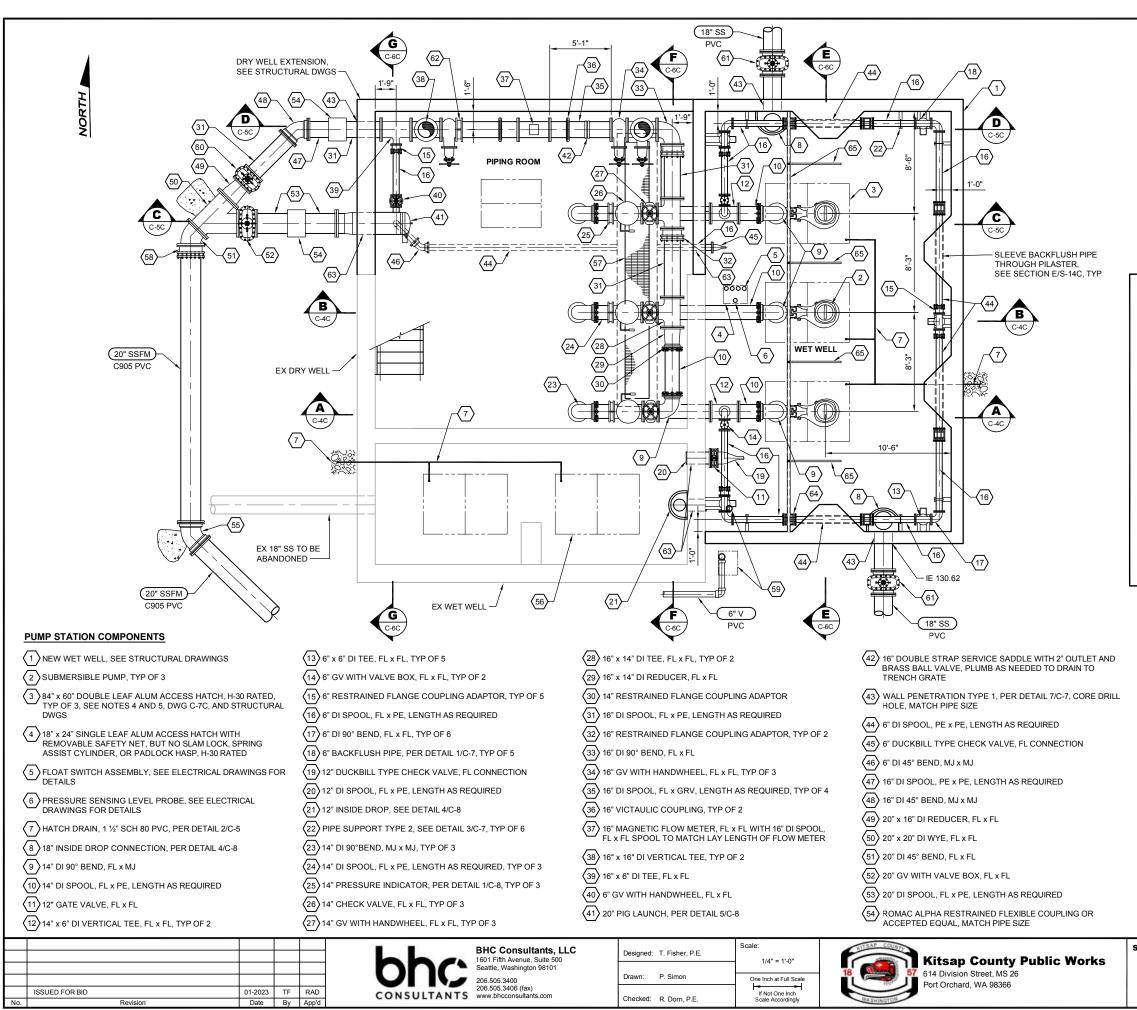
4. MAINTAIN CONSTANT UPWARD SLOPE FROM CONNECTION POINT NEAR SSMH K18-4013 TO NEW SSMH. BEND PIPE PER MANUFACTURER'S RECOMMENDATIONS TO MAKE ENTRANCE INTO SSMH. 5. SEE SCHEDULE A FOR 20" SSFM DOWNSTREAM OF BYPASS CONNECTION.

### COORDINATE CONTROL NOTES:

1. SEE DWGS D-1C, C-1C, C-8C, AND C-9C FOR ADDITIONAL COORDINATE POINTS.

	PIPE - COORDINATE CONTROL				
#	NORTHING	EASTING	INVERT/ ELEVATION	DESCRIPTION	
	242794.16	1186606.11	130.69	16" 45° BEND, MJ x MJ	
2	242785.52	1186597.03	130.52	20" 45° BEND, MJ x MJ	
	242760.47	1186596.43	130.64	20" 45° BEND, MJ x MJ	
	242741.66	1186615.61	130.78	20" 45° BEND, MJ x MJ	
;	242741.81	1186632.99	130.83	BYPASS STRUCTURE	
;	242741.92	1186646.40	130.87	20" 45° BEND, MJ x MJ	
1	242820.32	1186594.36	143.0±	RPBV HOT BOX (TOP OF SLAB)	

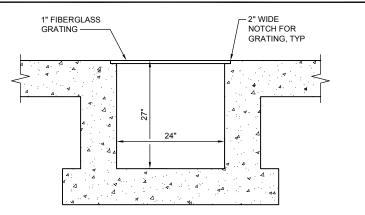




t: S:\Cadiktisap County21-10530 Silverdale Convey-PS 4 Upgr\Designd Filename: P21-10530\_C-3C\_Plot date: Mar 20, 2023-03:10.30pm C. f Filename: | X21-10530\_TB | Fisher | X21-10530-PS4\_Ex Bidg | X21-10530-PS4\_Prop Mech | Dahl | Palmatier |

### NOTES:

- 1. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE CLASS 52 AND LINED WITH PROTECTO 401.
- 2. ALL BOLTED CONNECTIONS IN THE WET WELL SHALL BE CONSTRUCTED WITH DOUBLE 316L SST NUTS.
- 3. ALL BELL AND SPIGOT, MECHANICAL, AND PLAIN END JOINTS SHALL BE RESTRAINED. ALL BURIED FITTINGS SHALL ALSO HAVE THRUST BLOCKS, UNLESS NOTED OTHERWISE.
- 4. COORDINATE HATCH LOCATION WITH PUMP MANUFACTURER AND GUIDE RAILS TO AVOID CONFLICTS.
- 5. ALL ACCESS HATCHES SHALL HAVE A SAFETY GRATE BY HATCH MANUFACTURER, UNLESS NOTED OTHERWISE. SAFETY GRATE SWING SHALL BE THE SAME AS THE HATCH DOOR.
- SEE STRUCTURAL DRAWINGS FOR LOCATIONS AND DETAILING OF LIFT/PULL POINTS IN CEILING OF PIPE ROOM THAT WILL BE USED TO FACILITATE MAINTENANCE ON THE MECHANICAL EQUIPMENT IN THE PIPE ROOM.



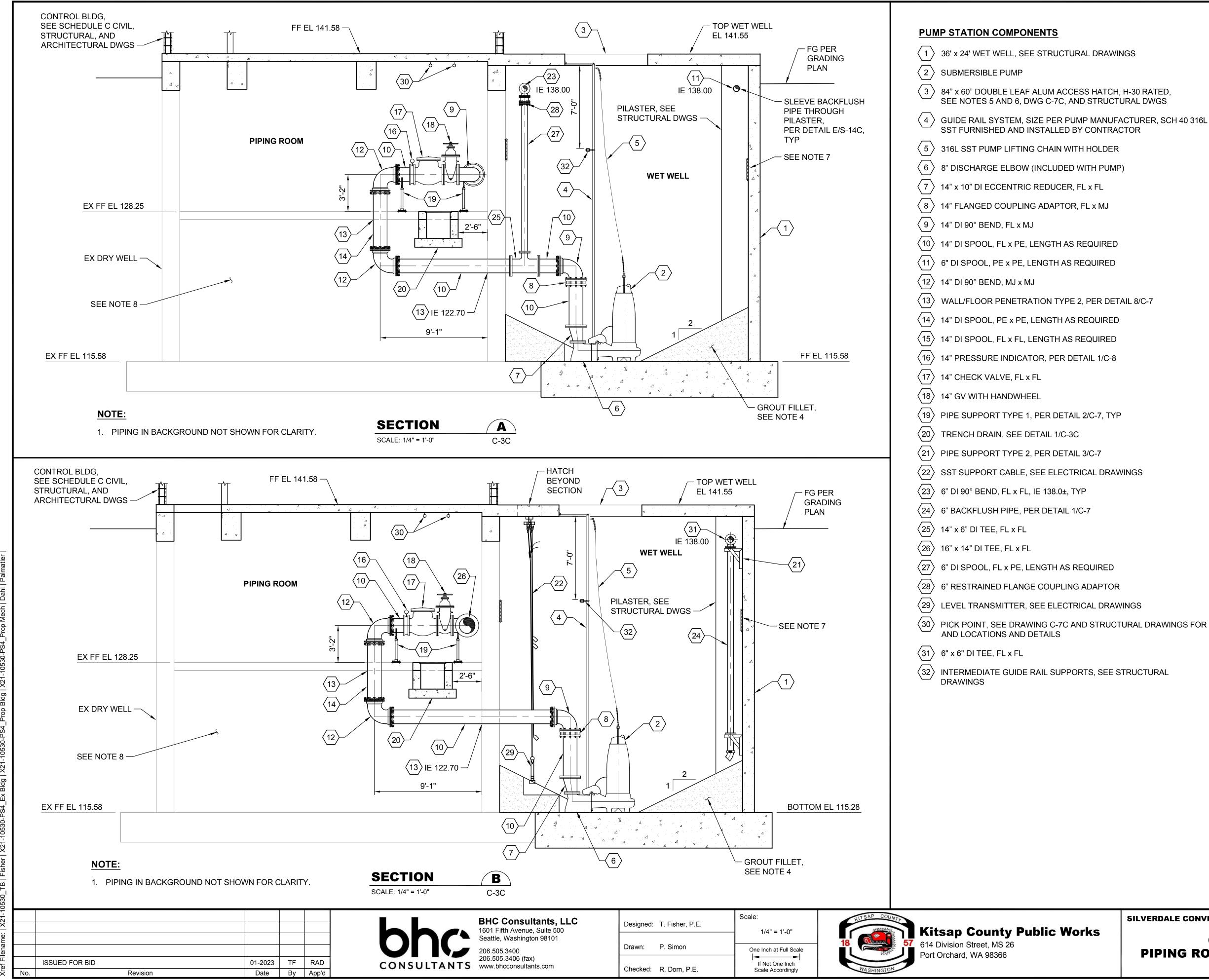
### NOTES:

1. SEE STRUCTURAL DWGS FOR REINFORCING AND WALL THICKNESS.

(1)



(55) 20" DI 45° BEND, MJ x MJ	
(56) 72" x 48" DOUBLE LEAF ALUMINUM ACCESS HATCH, H-30 RATED, TYP OF 2, SEE NOTE 5, DWG C-7C, AND STRUCTURAL DWGS	
57 TRENCH DRAIN, SEE DETAIL 1/-	
$\overline{58}$ 20" RESTRAINED FLANGE COUPLING ADAPTOR	
59) 6" C900 PVC VENT PIPE AND BIOFILTER FAN (ABOVE), PER DETAIL 5/C-9	
$\langle 60 \rangle$ 16" GV WITH VALVE BOX, FL x FL	Call 48 Hours
$\langle 61 \rangle$ 18" GV WITH VALVE BOX, MJ x MJ	Before You Dig
62 16" PRESSURE INDICATOR, PER DETAIL 1/C-8	1-800-424-5555
63) WALL PENETRATION TYPE 2, PER DETAIL 8/C-7, CORE DRILL HOLE, MATCH PIPE SIZE, TYP OF 5	
64 6" RESTAINED COUPLING, TYP OF 6	TON OF WASHING
(65) INTERMEDIATE GUIDE RAIL SUPPORTS, SEE STRUCTURAL DRAWINGS	
ILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES	Drawing: <b>C-3C</b>
SCHEDULE C	Sheet: 41 of 117
CONTROL BUILDING	File: P21-10530 C-3C
PIPING ROOM AND WET WELL PLAN	Date: January 2023

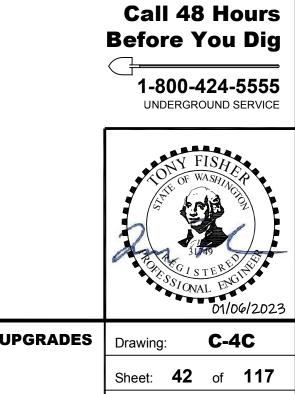


X <sup>1</sup> Upgr\Desigr Bldg | X21--PS 4 | 84\_Ex X21-1 g X

<b>Consultants, LLC</b> n Avenue, Suite 500	Designed: T. Fisher, P.E.	Scale: 1/4" = 1'-0"	Kitsap County Public W	
Vashington 98101 3400 3406 (fax) consultants.com	Drawn: P. Simon Checked: R. Dorn, P.E.	One Inch at Full Scale	- 18 57 614 Division Street, MS 26 Port Orchard, WA 98366	

### NOTES:

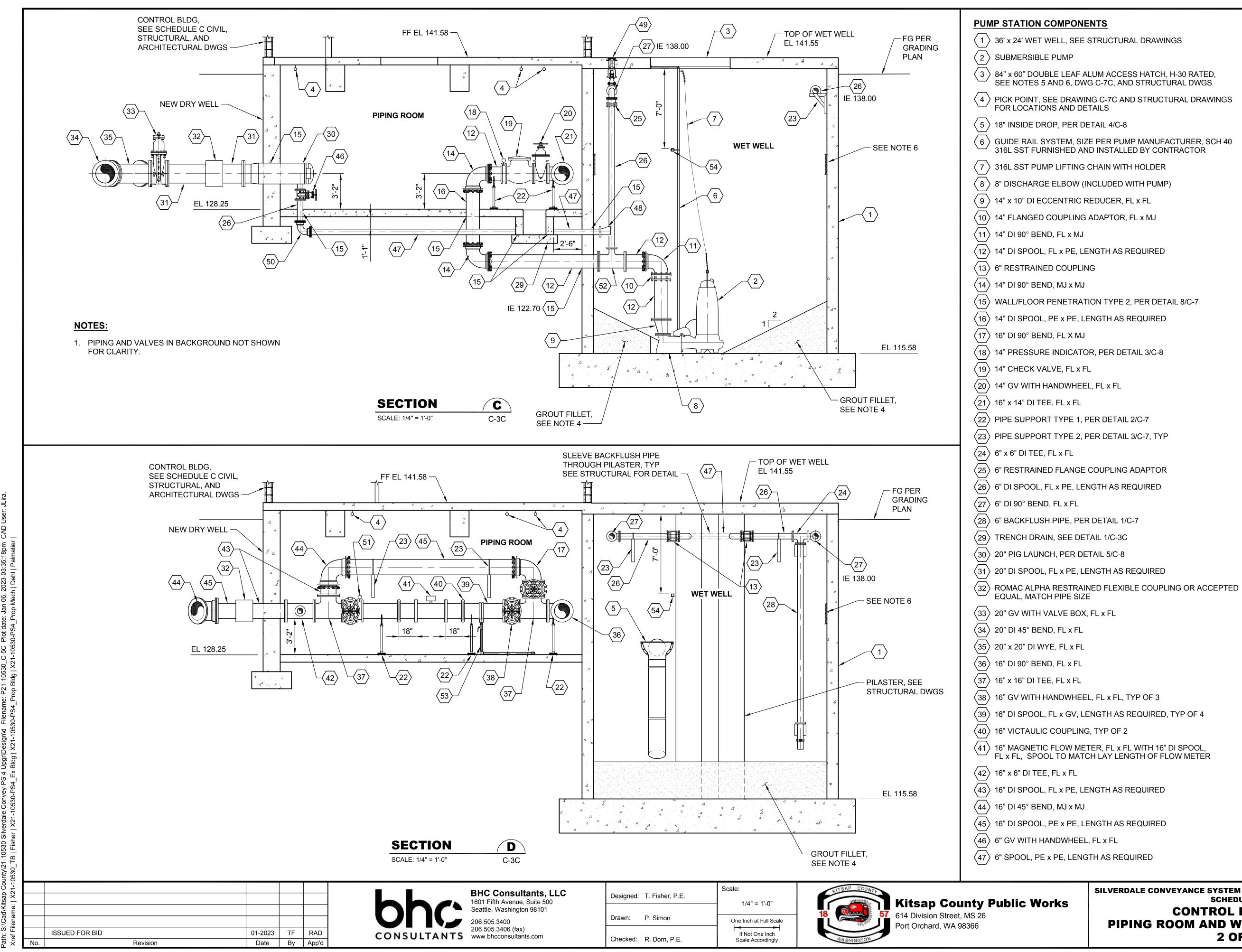
- 1. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE CLASS 52 AND LINED WITH PROTECTO 401.
- 2. ALL BOLTED CONNECTIONS IN THE WET WELL SHALL BE CONSTRUCTED WITH DOUBLE 316L SST NUTS.
- 3. ALL BELL AND SPIGOT, MECHANICAL, AND PLAIN END JOINTS SHALL BE RESTRAINED.
- 4. ADJUST DIMENSIONS OF FLAT AREA AND GROUTED FILLETS AROUND PUMPS, DISCHARGE ELBOW, PRESSURE SENSING LEVEL PROBE, AND LEVEL FLOATS TO PROVIDE 6 INCHES CLEARANCE.
- 5. COORDINATE HATCH LOCATION WITH PUMP MANUFACTURER AND GUIDE RAILS TO AVOID CONFLICTS.
- 6. ALL ACCESS HATCHES SHALL HAVE A SAFETY GRATE BY HATCH MANUFACTURER, UNLESS NOTED OTHERWISE. SAFETY GRATE SWING SHALL BE THE SAME AS THE HATCH DOOR.
- 7. CLEAN INTERIOR OF WET WELL AND COAT WITH INTERIOR COATING SYSTEM C PER SPECIFICATIONS. INSTALL FILLETS PRIOR TO COATING THE WET WELL.
- 8. COMPLETELY FILL LOWER LEVEL WITH CDF FOLLOWING INSTALLATION AND TESTING OF NEW PIPE.



File: P21-10530\_C-4C

Date: January 2023

SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C **CONTROL BUILDING PIPING ROOM AND WET WELL SECTIONS** 1 OF 3



Plot date: 30-PS4\_P P21-10530\_C-op Bldg | X21-1 Upgr\Design\d Bldg | X21-1053 er I X21-1 8 X

 $\langle$  3  $\rangle$  84" x 60" DOUBLE LEAF ALUM ACCESS HATCH, H-30 RATED, SEE NOTES 5 AND 6, DWG C-7C, AND STRUCTURAL DWGS

- $\langle 4 \rangle$  PICK POINT, SEE DRAWING C-7C AND STRUCTURAL DRAWINGS
- ( 6 ) GUIDE RAIL SYSTEM, SIZE PER PUMP MANUFACTURER, SCH 40 316L SST FURNISHED AND INSTALLED BY CONTRACTOR

- NOTES:
- 1. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE CLASS 52 AND LINED WITH PROTECTO 401
- 2. ALL BOLTED CONNECTIONS IN THE WET WELL SHALL BE CONSTRUCTED WITH DOUBLE 316L SST NUTS.
- 3. ALL BELL AND SPIGOT, MECHANICAL, AND PLAIN END JOINTS SHALL BE RESTRAINED.
- 4. ADJUST DIMENSIONS OF FLAT AREA AND GROUTED FILLETS AROUND PUMPS. DISCHARGE ELBOW, PRESSURE SENSING LEVEL PROBE, AND LEVEL FLOATS TO PROVIDE 6 INCHES CLEARANCE.
- 5. COORDINATE HATCH LOCATION WITH PUMP MANUFACTURER AND GUIDE RAILS TO AVOID CONFLICTS.
- 6. ALL ACCESS HATCHES SHALL HAVE A SAFETY **GRATE BY HATCH MANUFACTURER UNLESS** NOTED OTHERWISE. SAFETY GRATE SWING SHALL BE THE SAME AS THE HATCH DOOR.
- 7. CLEAN INTERIOR OF WET WELL AND COAT WITH INTERIOR COATING SYSTEM C PER SECTION 099600 OF THE SPECIFICATIONS. INSTALL FILLETS PRIOR TO COATING THE WET WELL.
- $\langle 48 \rangle$  6" DUCKBILL TYPE CHECK VALVE, SLIP ON CONFIGURATION
- $\langle 49 \rangle$  6" GV WITH VALVE BOX, FL x FL
- $\langle 50 \rangle$  6" DI 90° BEND, MJ x MJ
- $\langle 51 \rangle$  16" PRESSURE INDICATOR, PER DETAIL 3/C-8
- $\langle 52 \rangle$  14" x 6" DI TEE, FL x FL
- $\langle 53 \rangle$  16" DOUBLE STRAP SERVICE SADDLE WITH 2" OUTLET AND BRASS BALL VALVE, PLUMP AS NEEDED TO DRAIN TO TRENCH GRATE

**Call 48 Hours** 

1-800-424-5555

UNDERGROUND SERVICE

01/06/2023

**Before You Dig** 

File: P21-10530\_C-5C

Date: January 2023

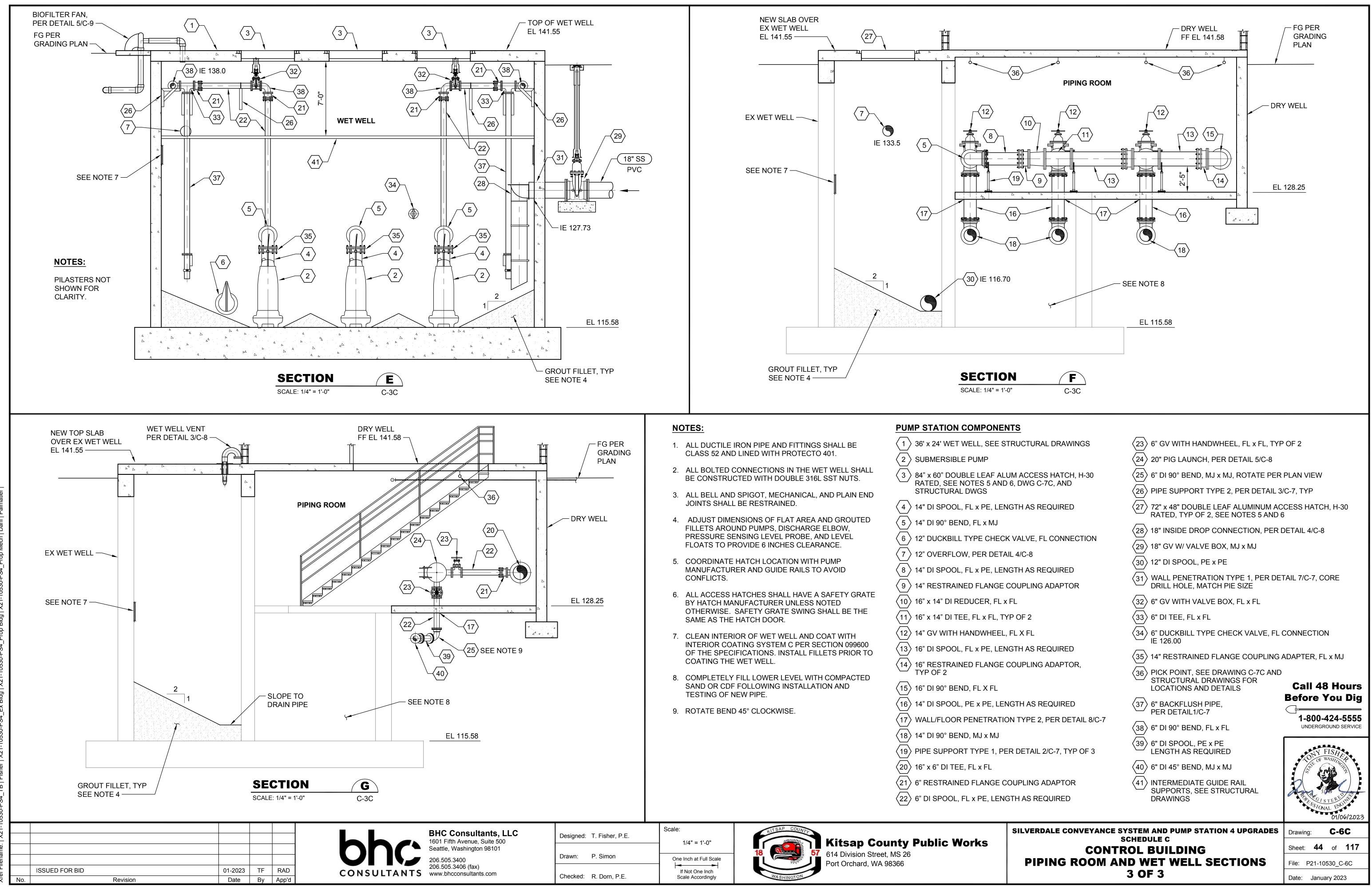
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- $\langle 54 \rangle$  INTERMEDIATE GUIDE RAIL SUPPORTS,
- SEE STRUCTURAL DRAWINGS

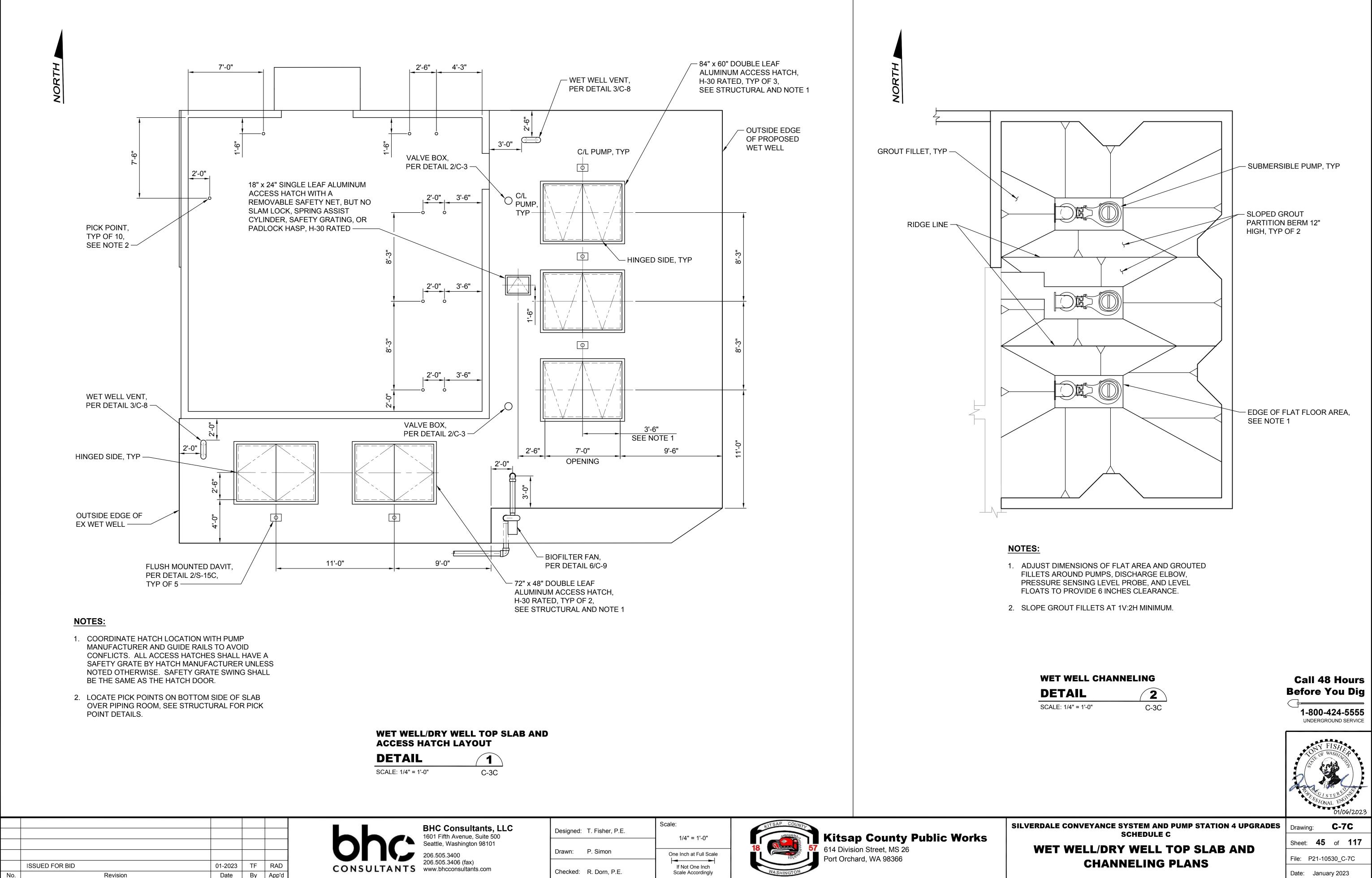


**PIPING ROOM AND WET WELL SECTIONS** 

2 OF 3



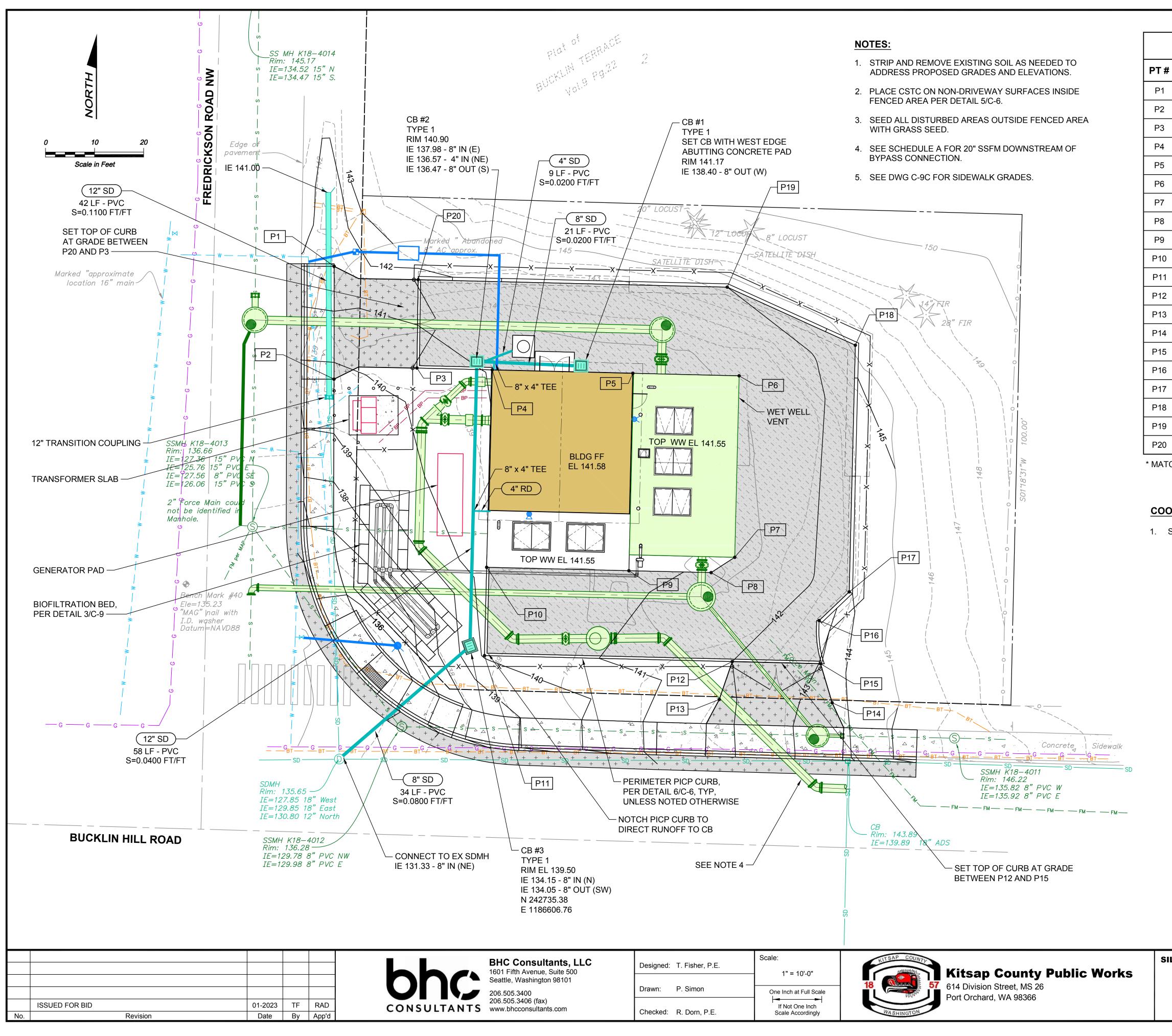
13:44: Dahl Plot date: 10530-P§ -6C X21 30\_C Bldg | Р21 84\_Р 10530-PS dale Convey-PS 4 Upgr\Design\d er | X21-10530-PS4\_Ex Bldg | X2 1B 130 8 X



CAD atier 3:58:3 Dahl 2023-03 Mech | Plot date: Jan 06, 3 10530-PS4\_Prop | 530\_C-7C Bldg | X21 con do Filename: P21--10530-PS4\_Pr t Upgr\Design\d F S4\_Ex Bldg | X21erdale Convey-PS 4 her | X21-10530-PS 10530 4\_TB| X2 ap

onsultants, LLC Avenue, Suite 500	Designed: T. Fisher, P.E.	Scale: 	KITSAP COUNTY	Kitsap County
Vashington 98101 3400	Drawn: P. Simon	One Inch at Full Scale	18 57	614 Division Street, MS 2 Port Orchard, WA 98366
3406 (fax) consultants.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON	Tort orchard, WA 30300

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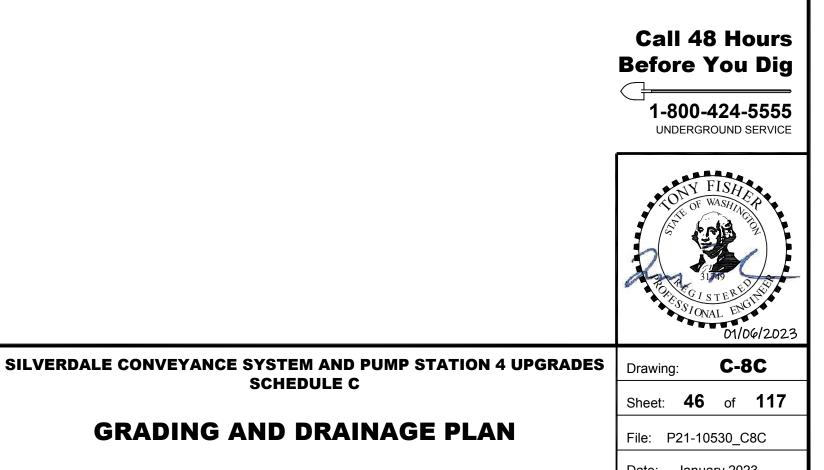
Path: S:\Cad\Kitsap County\21-10530 Silverdale Convey-PS 4 Upgr\Design\d Filename: P21-10530\_C-8C Plot date: Jan 06, 2023-05:58:20pm CAD User: so Xref Filename: | Fisher | X21-10530\_TB | X21-10530-PS4\_Ex Topo | X21-10530-PS4\_Prop Site | X21-10530-PS4\_Prop HMA | Dahl | Palmatier |

		COORD	INATE CONTRO	DL
¥	NORTHING	EASTING	ELEVATION	DESCRIPTION
	242817.64	1186579.18	142.0±/1	HMA
	242794.64	1186579.16	140.10	HMA
	242796.91	1186596.06	140.00	HMA AT PICP CURB
	242796.53	1186611.40	141.08	PICP AT BUILDING CORNER
	242795.84	1186640.06	141.28	PICP AT BUILDING CORNER
	242795.32	1186661.72	141.43	PICP AT WET WELL CORNER
	242758.33	1186660.83	141.10	PICP AT WET WELL CORNER
	242755.21	1186656.01	141.05	PICP AT SIDEWALK CORNER
	242755.60	1186639.26	140.90	PICP AT WET WELL CORNER
	242756.30	1186610.26	140.63	PICP AT WET WELL CORNER
	242738.30	1186609.83	140.14	TOP OF CURB RESTRAINT
	242737.08	1186660.32	142.00	HMA AT PICP CURB
	242729.36	1186657.68	141.82	HMA
	242728.69	1186680.67	143.50	HMA
	242736.65	1186678.31	143.02	HMA AT PICP CURB
	242745.43	1186678.02	142.40	PICP AT WALL
	242751.28	1186684.16	142.40	PICP AT WALL
	242801.56	1186685.40	142.30	PICP AT WALL
	242813.38	1186659.32	142.00	PICP AT WALL
	242814.91	1186596.31	141.14	HMA/PICP AT WALL

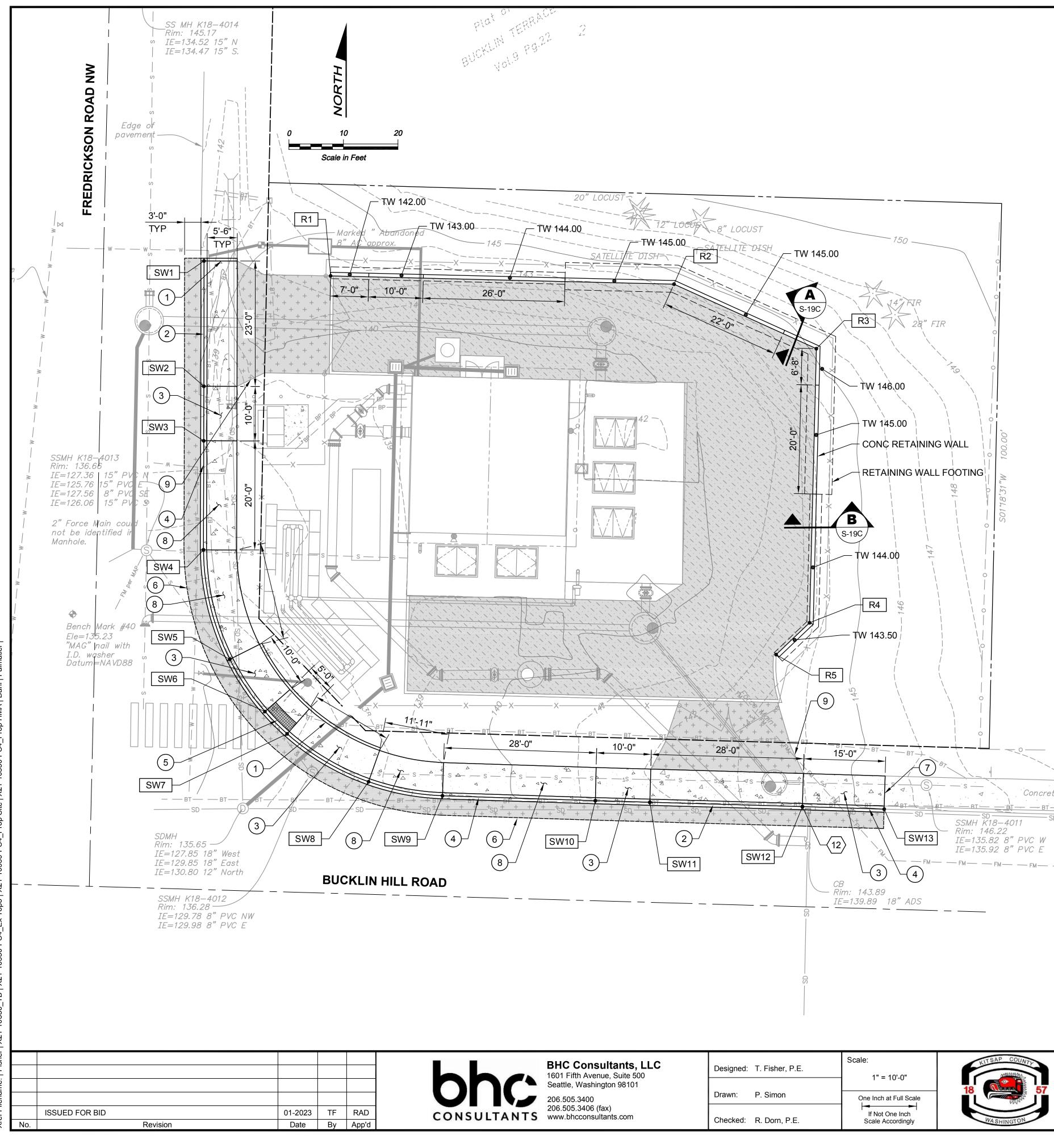
\* MATCH EXISTING GROUND ELEVATION

### **COORDINATE CONTROL NOTES:**

1. SEE DWGS D-1C C-1C, C-2C, AND C-9C AND C-1C FOR ADDITIONAL COORDINATE POINTS.



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ы Jan 06, 2023-06:( rop HMA | Dahl | F д Д 10530\_C ite | X21b 2 4 7 X21-silverdale Convey-PS 4 TB | X21-10530-PS4\_Ex 10530\_ 1530\_ ity/21 X21-

# DETAIL F-40.

NOTES:

- 4. GRADE SOIL BEHIND SIDEWALK, PEDESTRIAN RAMP, AND LANDING PER DRAWING C-8C.
- 5. CROSS SLOPE FROM BACK OF SIDEWALK TO FACE OF CURB SHALL NOT EXCEED 2%.

# **CONSTRUCTION NOTES:**

- (1) CEMENT CONCRETE PEDESTRIAN CURB PER WSDOT STD DETAIL F-10.
- 2 DEPRESSED CURB AND GUTTER PER WSDOT STD DETAIL F-10. PROVIDE CONTRACTION JOINTS IN CURB, GUTTER, AND ACCESS DRIVEWAY, EVENLY SPACED, 4'-0" MIN ON CENTER.
- (3) PROVIDE CONTRACTION JOINT(S) ON RAMPS AT 5'-0" ON CENTER.
- (5) DETECTABLE WARNING SURFACE PER WSDOT STD DETAIL F-45. LONGITUDINAL SLOPE SHALL NOT EXCEED 2%.

- 7 SAWCUT EXISTING CURB, GUTTER, AND SIDEWALK TO NEAREST FULL JOINT AND PROVIDE CLEAN EDGE AND NEW EXPANSION JOINT.
- (9) URBAN RESIDENTIAL APPROACH PER KITSAP COUNTY STANDARD DETAIL FIGURE 4-3.

	SIDEWALK AND CURB TABLE					
ITEM #	DESCRIPTION	FLOWLINE NORTHING	FLOWLINE EASTING	FLOWLINE ELEVATION	CURB HEIGHT	BACK SIDEWALK ELEVATION
SW1	ACCESS DWY	242817.66	1186573.10	141.79	0.5	141.88
SW2	ACCESS DWY	242794.66	1186573.07	139.58	0.0	139.67
SW3*	RAMP	242784.65	1186573.04	138.52	0.5	139.11
SW4	SIDEWALK PC	242764.65	1186572.99	136.49	0.5	137.08
SW5	RAMP	242744.56	1186577.82	135.13	0.5	135.72
SW6	LANDING	242734.99	1186584.27	135.25	0.0	135.35
SW7	LANDING	242730.90	1186588.34	135.35	0.0	135.44
SW8	RAMP	242722.11	1186603.27	137.26	0.5	137.79
SW9	SIDEWALK PT	242719.54	1186616.83	138.46	0.5	138.99
SW10	RAMP	242718.63	1186644.87	140.70	0.5	141.23
SW11	ACCESS DWY	242718.35	1186654.86	141.50	0.0	141.53
SW12	ACCESS DWY	242717.54	1186682.84	143.80	0.0	143.86
SW13**	RAMP	242717.08	1186697.84	145.04	0.5	145.60

\* PROVIDE CONTRACTION JOINT IN RAMP EQUALLY SPACED AT 5'-0" OC. \*\* MATCH EXISTING ELEVATIONS AT EXISTING CURB AND SIDEWALK TIE-INS.

	RETAINING WALL - COORDINATE CONTROL				
PT #	NORTHING	EASTING	TW EL	BW EL	
R1	242814.91	1186596.31	142.00	141.14	
R2	242813.39	1186659.29	145.50	141.27	
R3	242801.56	1186685.40	146.00	141.40	
R4	242751.28	1186684.16	144.00	141.74	
R5	242745.43	1186678.02	144.00	142.00	

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ants, LLC Suite 500	Designed:	T. Fisher, P.E.
98101	Drawn:	P. Simon
s.com	Checked:	R. Dorn, P.E.

1. SEE DRAWING S-19C FOR RETAINING WALL STRUCTURAL DETAILS.

2. ALL SIDEWALK, LANDINGS, AND REMAPS SHALL BE BROOM FINISHED.

3. CURB RAMP SHALL BE A PARALLEL TYPE A CURB RAMP PER WSDOT STANDARD PLAN

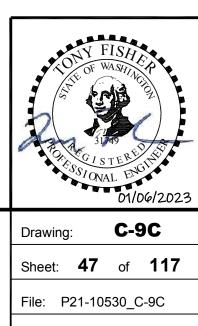
4 CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD DETAIL F-10. PROVIDE CONTRACTION JOINTS IN CURB AND GUTTER EVENLY SPACED, 4'-0" MIN ON CENTER.

6 SAWCUT EXISTING PAVEMENT, COMPACT PAVEMENT AGGREGATE BASE AND PLACE HMA IN COMPACTED LIFTS TO MATCH DEPTH OF EXISTING PAVEMENT.

(8) CEMENT CONCRETE SIDEWALK PER WSDOT STD DETAIL F30.10. PROVIDE CONTRACTION JOINTS IN SIDEWALK, EVENLY SPACED, 4'-0" MIN ON CENTER.

Call 48 Hours **Before You Dig** 1-800-424-5555

UNDERGROUND SERVICE



Date: January 2023

SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C

# **RETAINING WALL AND SIDEWALK PLAN**

# **ARCHITECTURAL GENERAL NOTES**

- 1. DRAWINGS ARE IN PART DIAGRAMMATIC AND DO NOT NECESSARILY SHOW COMPLETE DETAILS OF CONSTRUCTION, WORK, OR MATERIALS, PERFORMANCE OR INSTALLATION. DRAWINGS DO NOT NECESSARILY SHOW HOW CONSTRUCTION DETAILS, OTHER ITEMS OR WORK AND EQUIPMENT MAY AFFECT A PARTICULAR INSTALLATION.
- 2. FEATURES NOT FULLY SHOWN ON PLANS OR DETAILS ARE TO BE PROVIDED AS INDICATED FOR SIMILAR CONDITIONS.
- 3. THE OWNER SHALL BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND/OR CONDITIONS SHOWN ON THESE DOCUMENTS. ANY SUCH VARIATIONS SHALL BE APPROVED BY THE OWNER PRIOR TO PROCEEDING WITH THE WORK, OR THE CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR COST TO RECTIFY THE SAME.
- 4. ALL DIMENSIONS TO WALLS SHOWN ON DRAWINGS ARE TAKEN FROM FACE OF BLOCK.
- 5. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS ON THE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
- 6. VERIFY DIMENSIONS, ROUGH OPENING SIZES SHOWN FOR DOORS, WINDOWS AND OTHER PENETRATIONS AGAINST REQUIREMENTS OF SPECIFIED PRODUCTS, CONDITIONS, ELEVATIONS, ETC. PERTAINING TO WORK BEFORE PROCEEDING.
- 7. PROVIDE ALL SUB-FRAMING AS REQUIRED TO RECEIVE WORK BY OTHERS.
- 8. PROVIDE GALVANIC ISOLATION BETWEEN DISSIMILAR METALS.
- 9. ALL OPENINGS SHALL BE CAULKED, SEALED, OR WEATHER STRIPPED.
- 10. NOT ALL ELEMENTS ARE SHOWN ON ARCHITECTURAL DRAWINGS. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
- 11. ALL CLEAR DIMENSIONS ARE TO BE EXACTLY WITHIN 1/8" FULL HEIGHT AND WIDTH OF WALLS. CONTRACTOR SHALL NOT ADJUST ANY DIMENSIONS MARKED "CLEAR" OR "CLR" WITHOUT WRITTEN INSTRUCTIONS FROM THE OWNER.
- 12. CONTRACTOR SHALL ADHERE TO ALL CODES, RULES AND REGULATIONS GOVERNING CONSTRUCTION BUILDING ACCESS AND THE USE OF FACILITIES AS SET BY THE AUTHORITY HAVING JURISDICTION.

### **CODE NOTES**

JURISDICTION:	KITSAP COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT
BUILDING:	2018 INTERNATIONAL BUILDING CODE (IBC), WITH KITSAP COUNTY AMENDMENTS
FIRE PROTECTION:	2018 INTERNATIONAL FIRE CODE (IFC), WITH WASHINGTON STATE AMENDMENTS
	HYDRANTS, FIRE EXTINGUISHERS, COMBUSTIBLE GAS DETECTION SYSTEM PER NFPA 820, 2020 EDITION
ACCESSIBILITY:	2018 IBC CH. 11 WITH WASHINGTON STATE WAC 51-50 AMENDMENTS AND ICC A117.1-2009

### PUMP STATION BUILDING

BUILDING TYPE:	V-B
OCCUPANCY TYPE:	U (2018 IBC 312)
OCCUPANT LOAD:	49 (2018 IBC TABLE 1004.5)
FIRE SPRINKLERS:	REQUIRED: NO (2018 IBC 903.2)
	PROVIDED: NO
FIRE ALARM:	REQUIRED: NO (2018 IBC 907.2.2)
	PROVIDED: NO
BUILDING HEIGHT (201	8 IBC TABLE 504.3, 504.4)
A. ALLOWABL	.E: 1 STORIES/40 FT
B. PROPOSEI	D: 1 STORY/ 16 FT (FROM FINISH GRADE)
BUILDING AREA (2018	BIBC TABLE 506.2)
A. ALLOWABL	E: 5,500 SF
B. PROPOSEI	D:

### EXITING

EXIT ACCESS TRAVEL DISTANCE:

LESS THAN 300 FT OF TRAVEL DISTANCE

- (2018 IBC TABLE 1017.2) COMMON PATH EGRESS TRAVEL:
  - LESS THAN 100 FT

(2018 IBC TABLE 1006.2.1) MIN NUMBER OF EXITS OR EXIT ACCESS PER ROOM:

1 (2018 IBC TABLE 1006.3.3)

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### WASHINGTON STATE ENERGY CODE

USE OF EXCEPTION C OF THE TABLE C402.1.3 OF THE 2018 WASHINGTON STATE ENERGY CODE ALLOWS EXEMPTION FOR THE REQUIREMENT OF CONTINUOUS INSULATION.

EXCEPTION C:

- 1. AT LEAST 50 PERCENT OF CORES MUST BE FILLED WITH VERMICULITE OR EQUIVALENT FILL INSULATION; AND
- 2. THE BUILDING THERMAL ENVELOPE ENCLOSES ONE OR MORE OF THE FOLLOWING USES: WAREHOUSE (STORAGE AND RETAIL), GYMNASIUM, AUDITORIUM, CHURCH CHAPEL, ARENA, KENNEL, MANUFACTURING PLANT, INDOOR SWIMMING POOL, PUMP STATION, WATER AND WASTE WATER TREATMENT FACILITY, STORAGE FACILITY, STORAGE AREA, MOTOR VEHICLE SERVICE FACILITY.

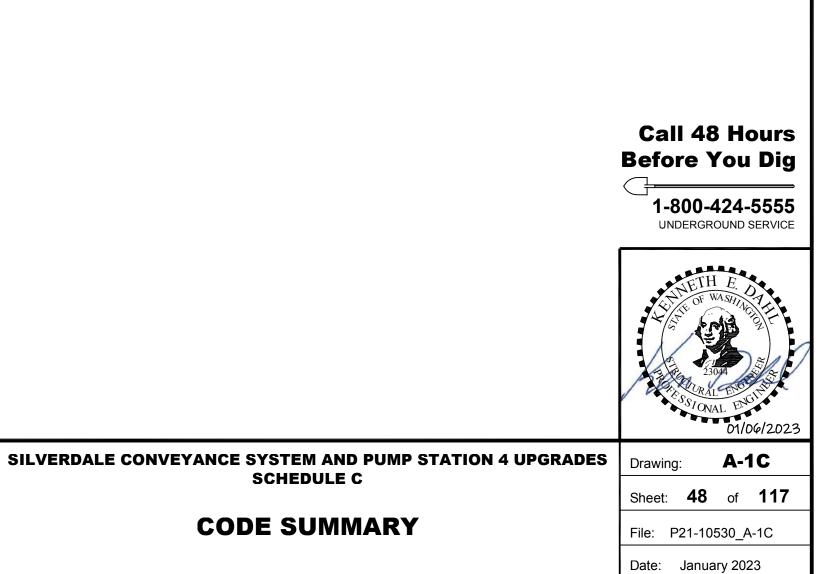
ALL INSULATION MATERIALS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS TO ACHIEVE PROPER DENSITIES, MAINTAIN CLEARANCES AND MAINTAIN UNIFORM R-VALUES TO THE MAXIMUM EXTENT POSSIBLE, INSULATION SHALL EXTEND OVER THE FULL COMPONENT AREA TO THE INTENDED R-VALUE.

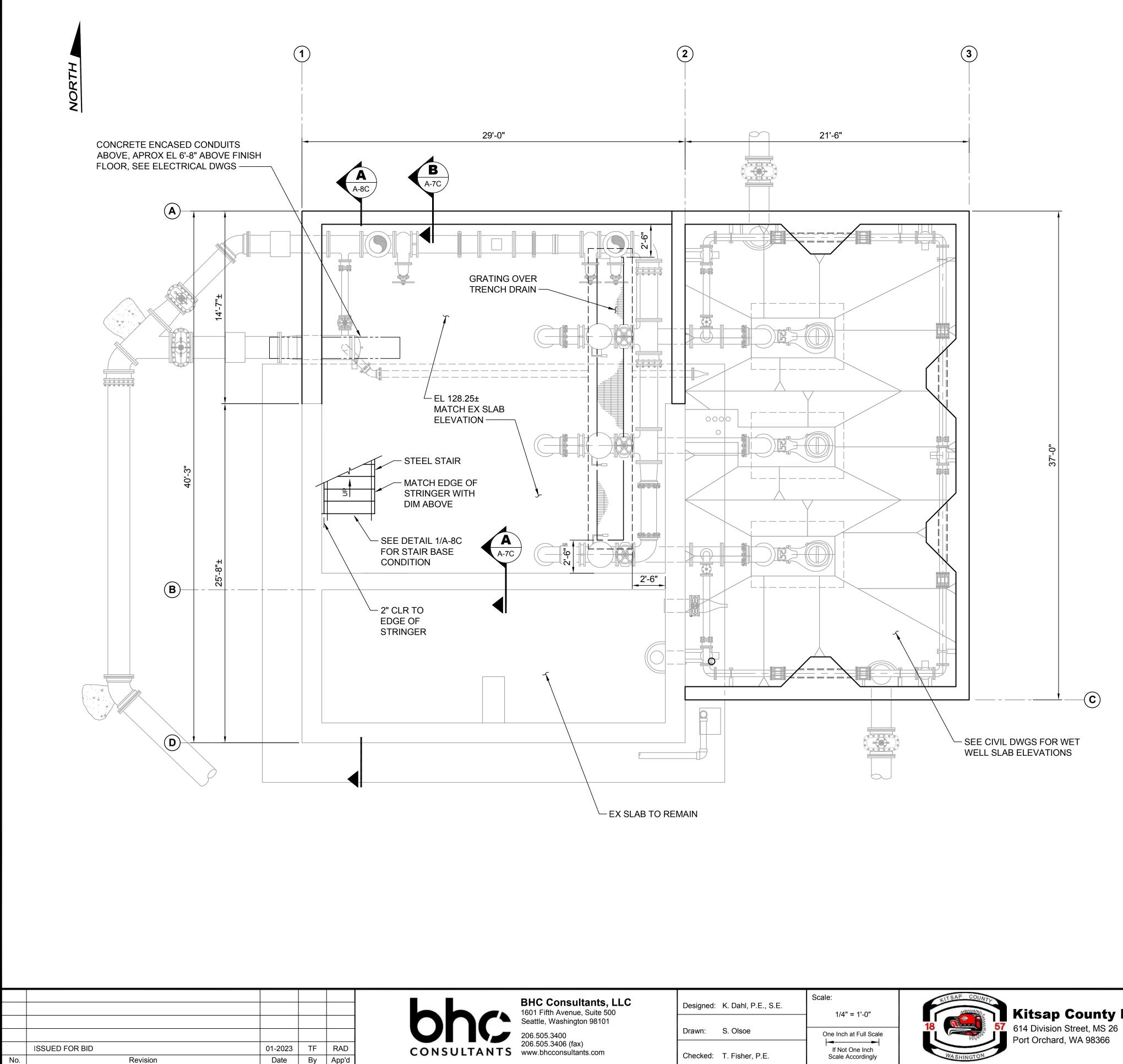
EXTERIOR JOINTS AROUND WINDOWS AND DOOR FRAMES, OPENINGS BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF AND WALL PANELS; OPENINGS AT PENETRATIONS OF UTILITY SERVICES THROUGH WALLS, FLOORS AND ROOFS; AND ALL OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED AND/OR WEATHER STRIPPED TO LIMIT AIR LEAKAGE. 'BUILDING ENVELOPE' MEANS ALL BUILDING ELEMENTS SEPARATING CONDITIONED FROM UNCONDITIONED SPACES.

DOORS AND OPERABLE GLAZING SEPARATING CONDITIONED FROM UNCONDITIONED SPACE SHALL BE WEATHER STRIPPED: FIXED WINDOWS SHALL BE TIGHT FITTING WITH GLASS RETAINED BY STOPS WITH SEALANT OR CAULKING ALL AROUND.

ants, LLC Suite 500	Designed:	K. Dahl, P.E., S.E.
98101	Drawn:	A. Bradley
s.com	Checked:	T. Fisher, P.E.



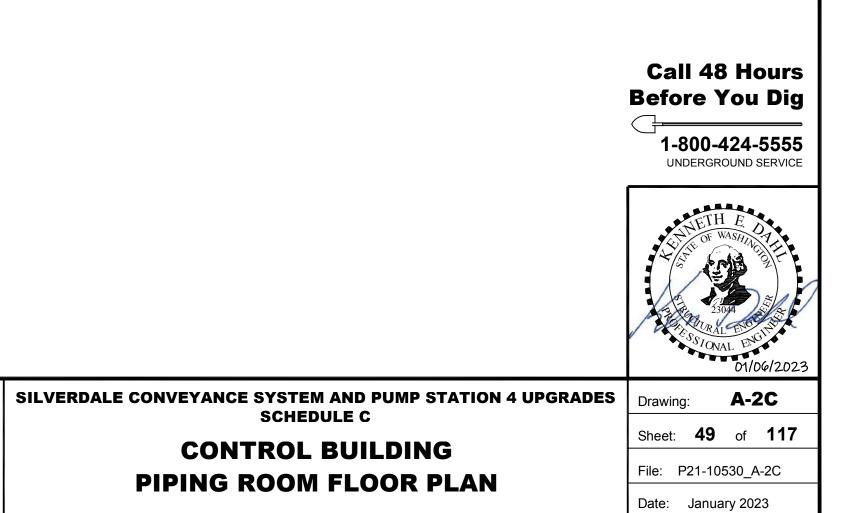


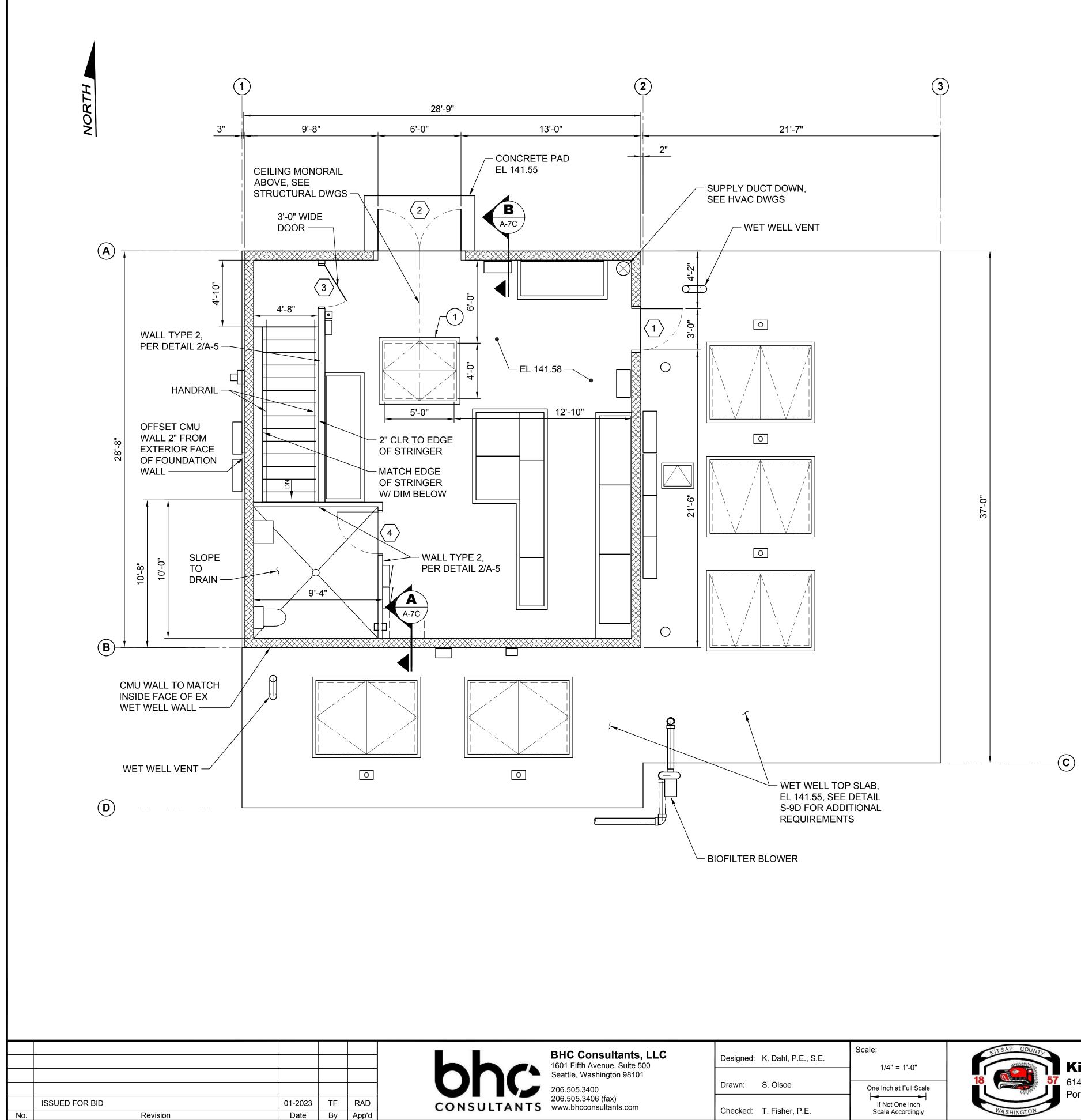


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t <b>ants, LLC</b> Suite 500	Designed:	K. Dahl, P.E., S.E.	Scale: 1/4" = 1'-0"	f
n 98101	Drawn:	S. Olsoe	One Inch at Full Scale	18
ts.com	Checked:	T. Fisher, P.E.	If Not One Inch Scale Accordingly	

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	,
WET WELL TOP SLAB, EL 141.55, SEE DETAIL S-9D FOR ADDITIONAL REQUIREMENTS	
- BIOFILTER BLOWER	

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NOTES:

1.  $\langle \# \rangle$  SYMBOL REFERS TO THE DOOR SCHEDULE ON DWG A-10C.

### **CONSTRUCTION NOTES:**

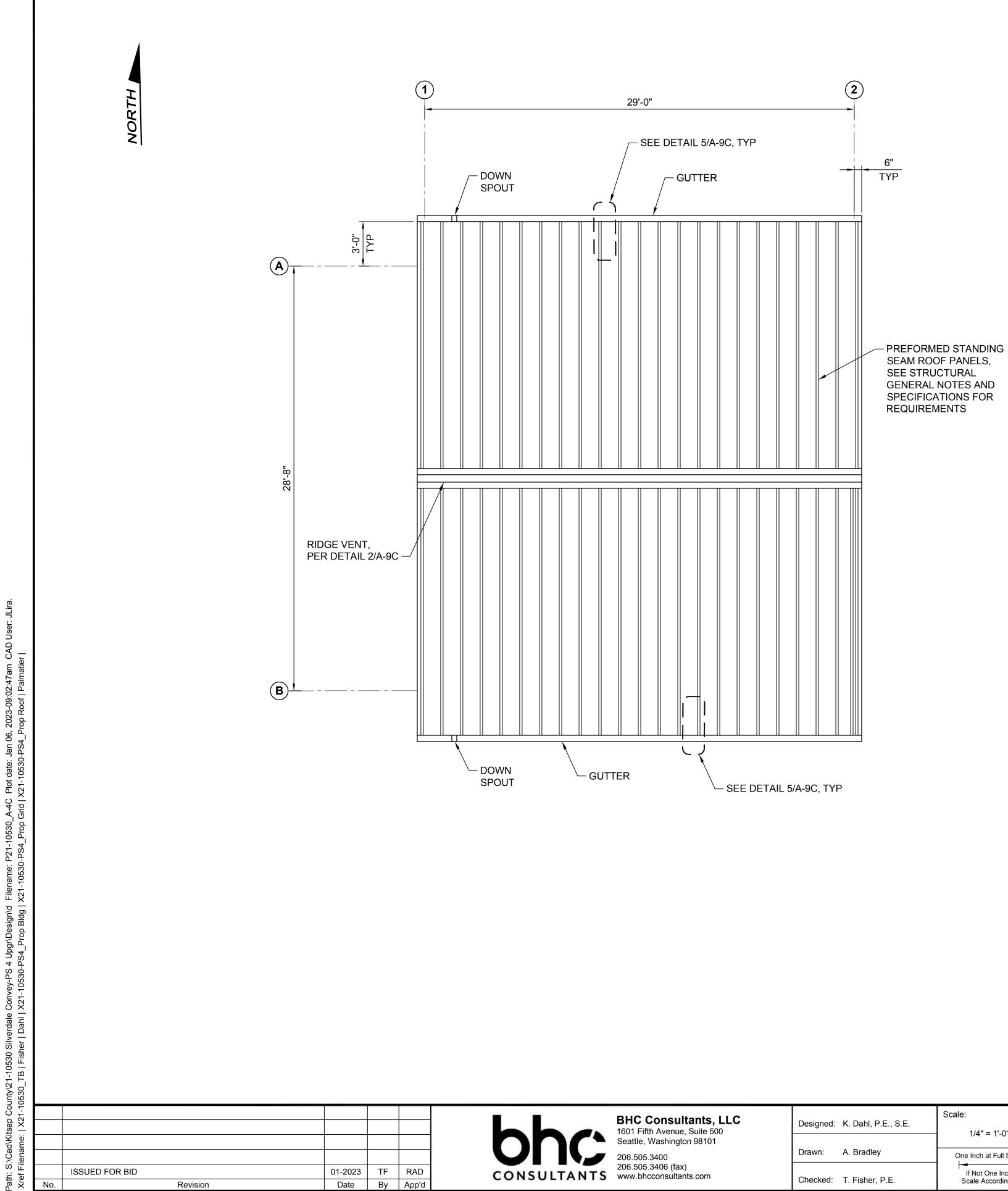
1 48" x 60" DOUBLE LEAF ALUMINUM ACCESS HATCH, H-30 RATED.



File: P21-10530\_A-3C

Date: January 2023

SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C **CONTROL BUILDING** ELECTRICAL ROOM **FLOOR PLAN** 



Date By App'd

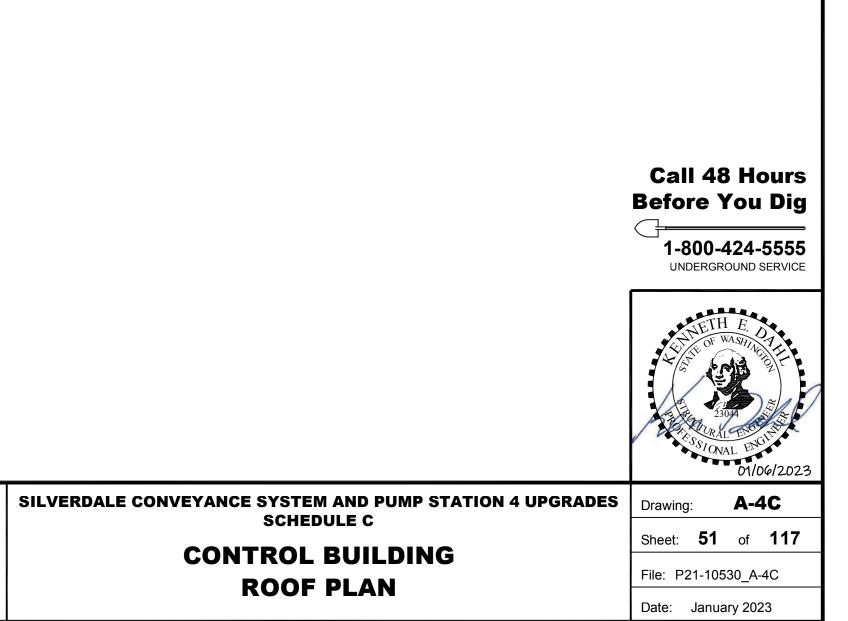
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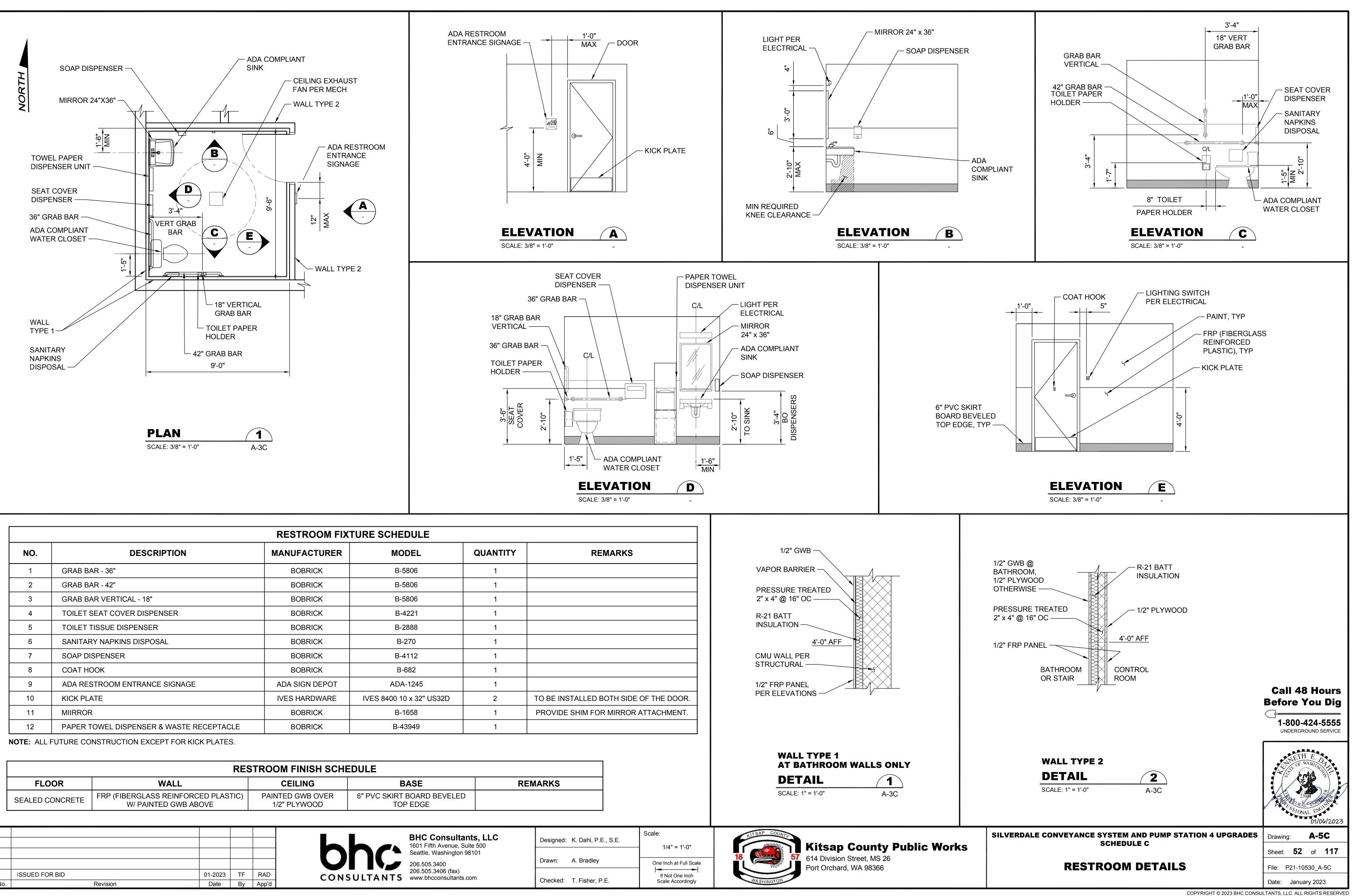
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ants, LLC Suite 500 98101	Designed:	K. Dahl, P.E., S.E.	Scale: 1/4" = 1'-0"
	Drawn:	A. Bradley	One Inch at Full Scale
s.com	Checked:	T. Fisher, P.E.	If Not One Inch Scale Accordingly



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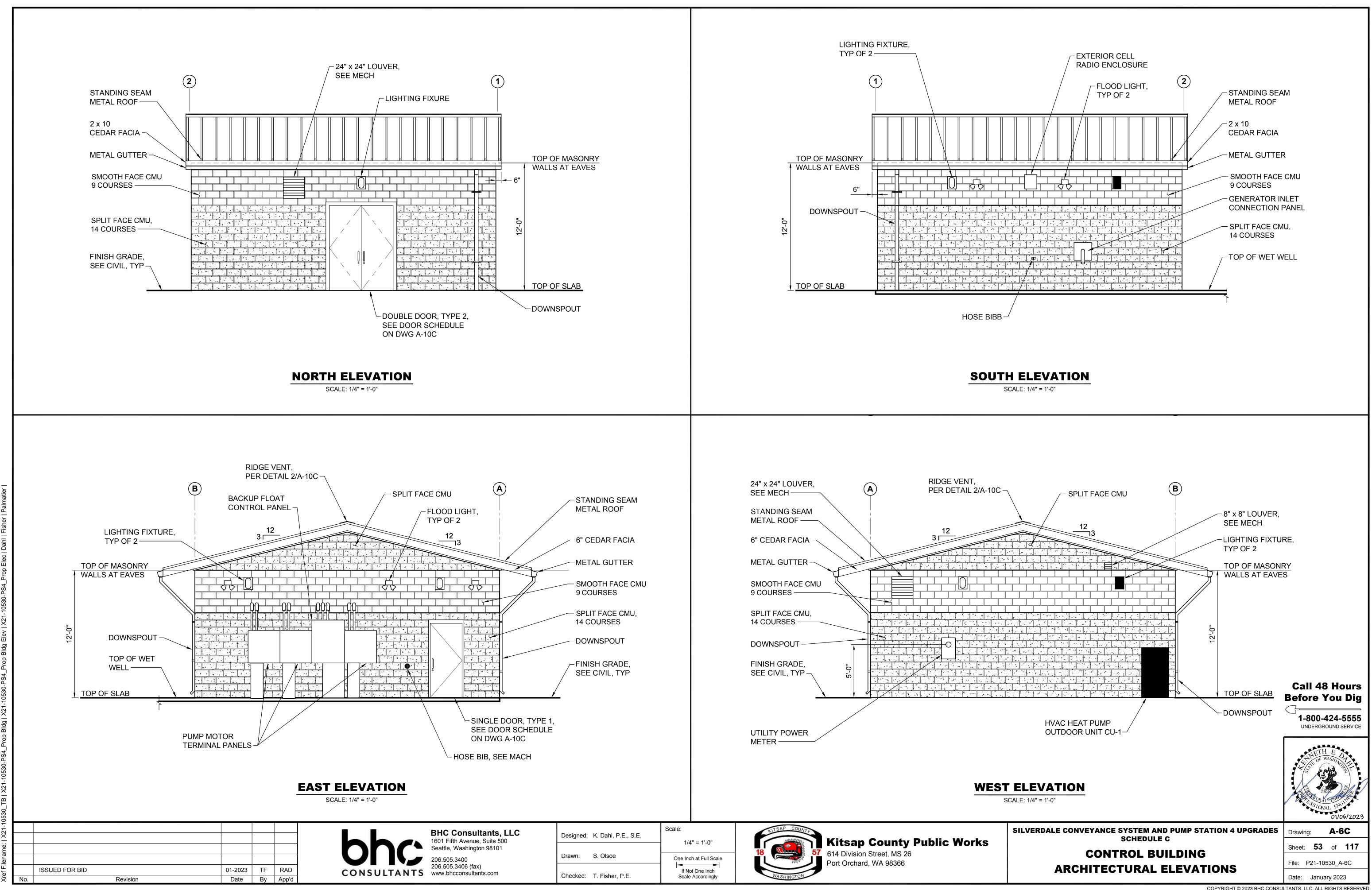




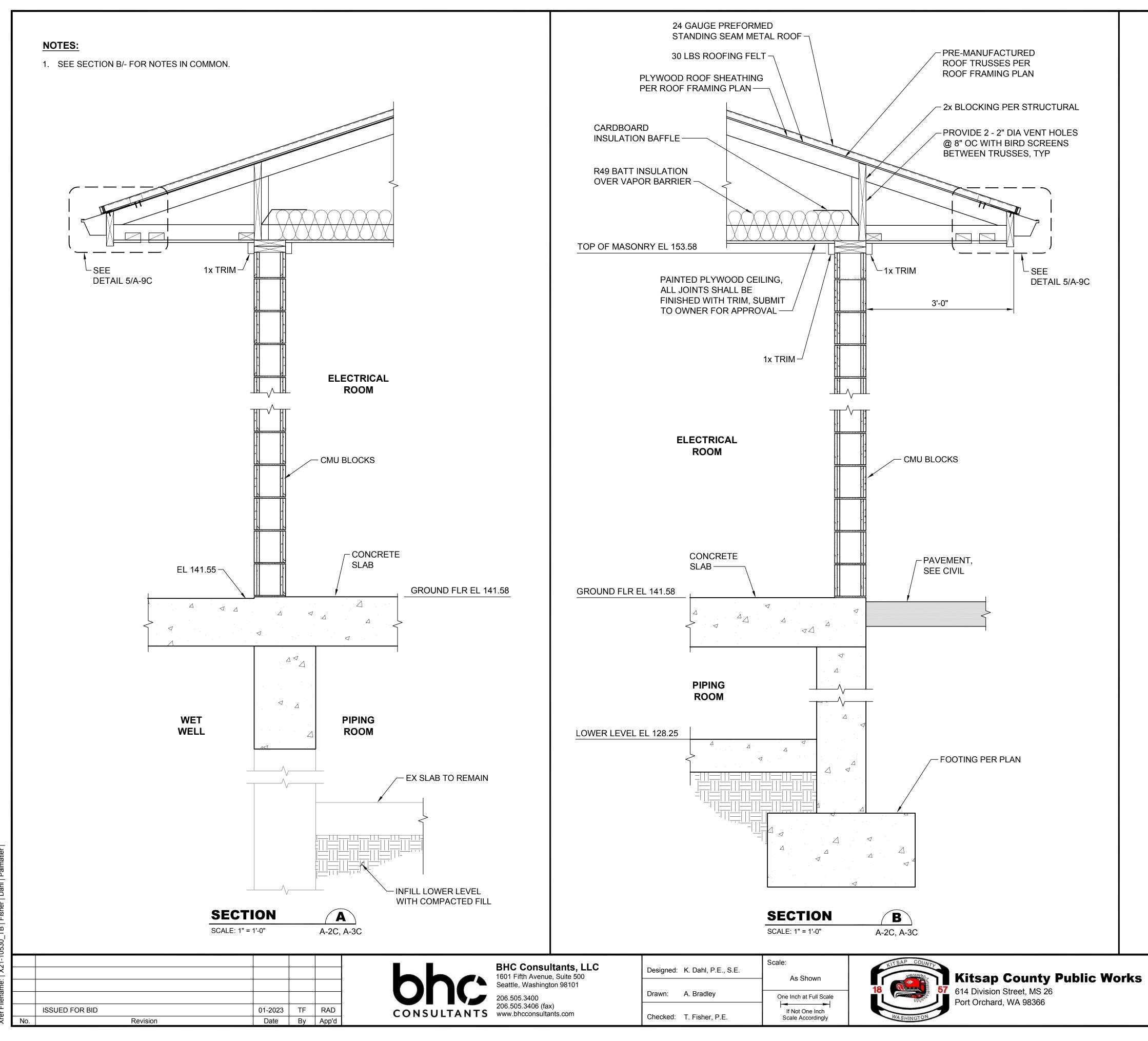
		<b>RESTROOM FIX</b>	TURE SCHEDULE	
NO.	DESCRIPTION	MANUFACTURER	MODEL	Τ
1	GRAB BAR - 36"	BOBRICK	B-5806	┢
2	GRAB BAR - 42"	BOBRICK	B-5806	
3	GRAB BAR VERTICAL - 18"	BOBRICK	B-5806	
4	TOILET SEAT COVER DISPENSER	BOBRICK	B-4221	Τ
5	TOILET TISSUE DISPENSER	BOBRICK	B-2888	
6	SANITARY NAPKINS DISPOSAL	BOBRICK	B-270	Τ
7	SOAP DISPENSER	BOBRICK	B-4112	
8	COAT HOOK	BOBRICK	B-682	Τ
9	ADA RESTROOM ENTRANCE SIGNAGE	ADA SIGN DEPOT	ADA-1245	Τ
10	KICK PLATE	IVES HARDWARE	IVES 8400 10 x 32" US32D	Τ
11	MIIRROR	BOBRICK	B-1658	Τ
12	PAPER TOWEL DISPENSER & WASTE RECEPTACLE	BOBRICK	B-43949	T

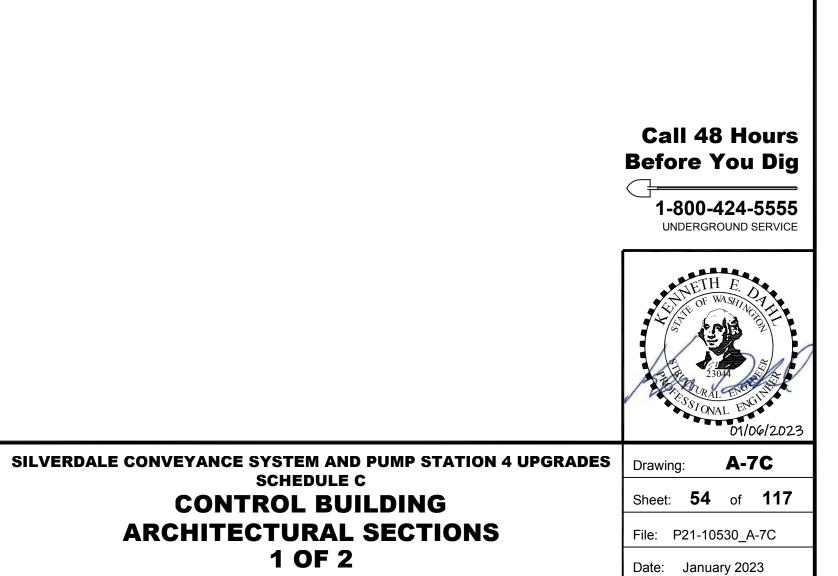
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				RES	TROC	OM FINISH SCHE	EDULE	
	FLOOR	WALL				CEILING	В	ASE
	SEALED CONCRETE	FRP (FIBERGLASS REINFORC W/ PAINTED GWB AB		TIC)		NTED GWB OVER /2" PLYWOOD		BOARD BEVELED P EDGE
						h	hr	BHC Consultant 1601 Fifth Avenue, Suit Seattle, Washington 98
	ISSUED FOR BID		01-2023	TF	RAD			206.505.3400 206.505.3406 (fax) www.bhcconsultants.cc
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BATT INSTULATION  $\neg$ D B 12 3 SEE PER DETAIL 5/A-9C — X X X X X X X X X X X X X GWD CEILING AT BATHROOM WALL TYPE 2, SEE DWG A-5C — BATHROOM SEE DWG A-5C FOR BATHROOM INFORMATION -. Д., : **⊲** : 23-09:12:40ar op Grid | Pal 1 BHC Consulta 1601 Fifth Avenue, Si eattle, Washington 
 206.505.3400

 206.505.3406 (fax)

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10530 Silverdale Convey-PS 4 Upgr\Design\d 4\_TB | Fisher | Dahl | X21-10530-PS4\_Prop B

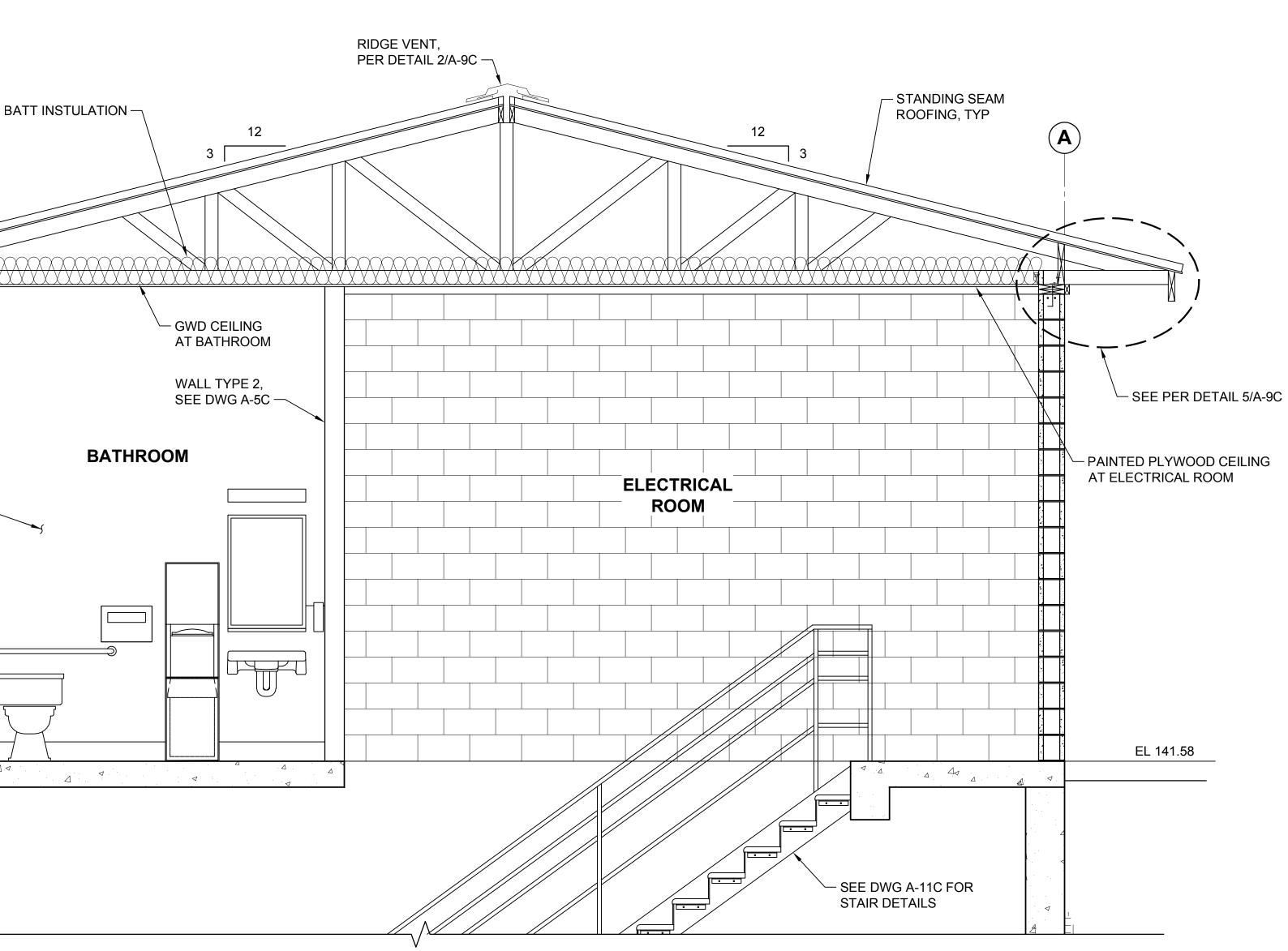
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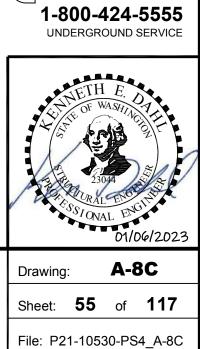
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SECTION	Á
SCALE: 3/8" = 1'-0"	A-20

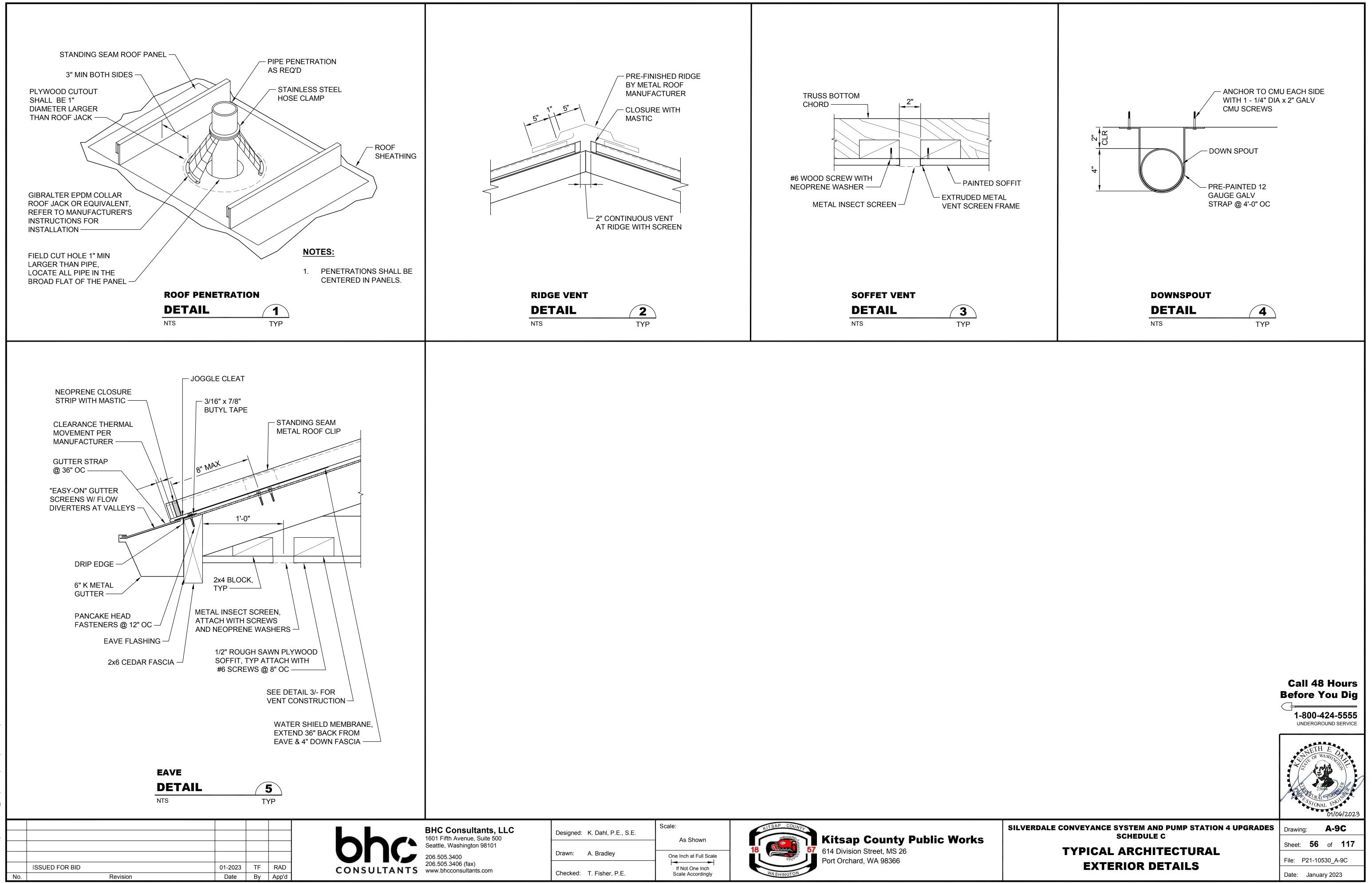
tants, LLC , Suite 500 on 98101	Designed: K. Dahl, P.E., S.E.	Scale: 3/8" = 1'-0"	Kitsap County Public Works	
) hts.com	Drawn: A. Bradley Checked: T. Fisher, P.E.	One Inch at Full Scale	614 Division Street, MS 26 Port Orchard, WA 98366	





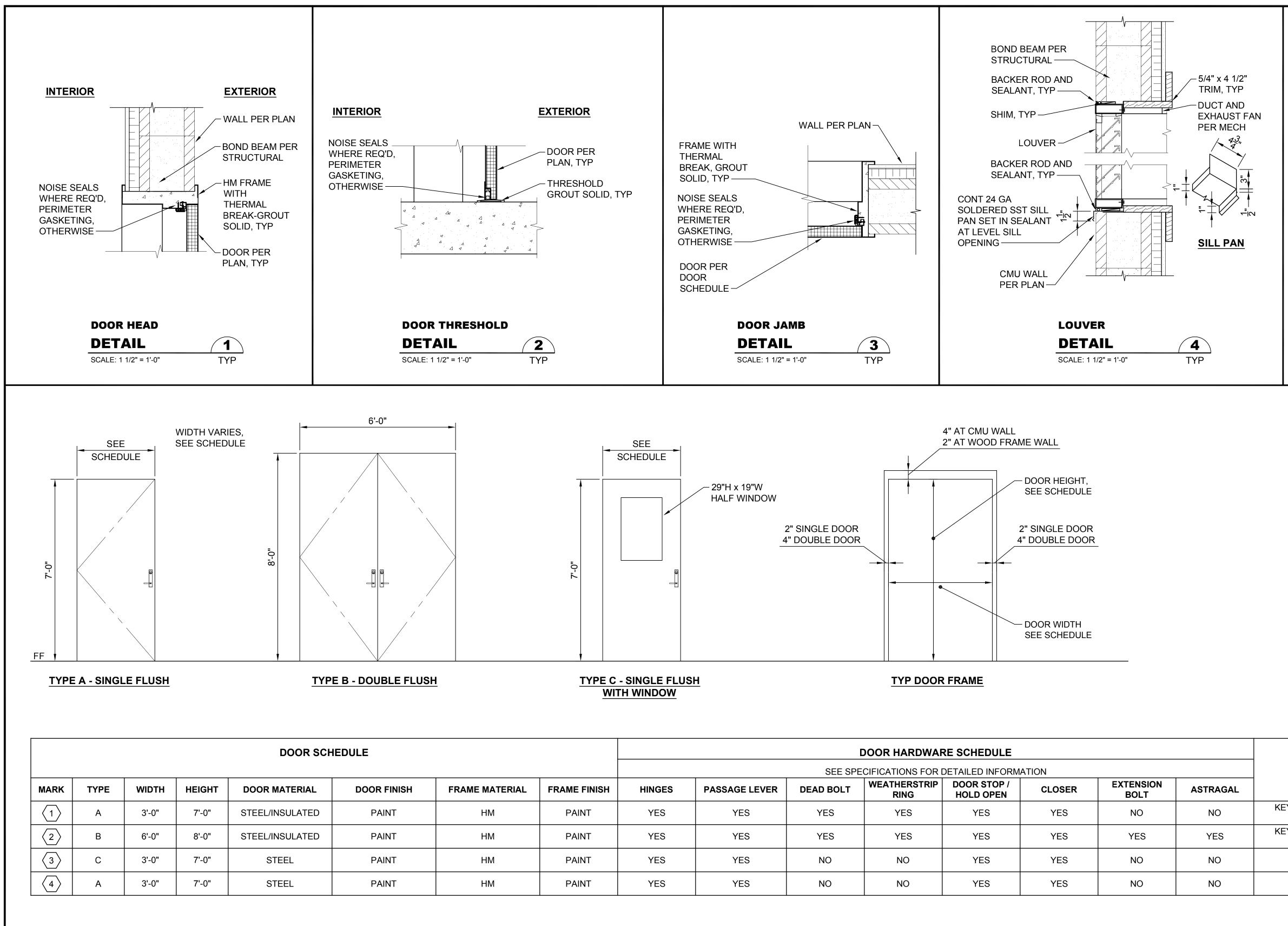
Date: January 2023

SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C **CONTROL BUILDING ARCHITECTURAL SECTIONS** 2 OF 2



silverdale ier | Dahl | unty\21-10530 3530\_TB | Fish X2

tants, LLC Suite 500	Designed: K. Dahl, P.E., S.E.	Scale: As Shown	Kitsap County Public Works
n 98101	Drawn: A. Bradley	One Inch at Full Scale	18 57 614 Division Street, MS 26 Port Orchard, WA 98366
ts.com	Checked: T. Fisher, P.E.	If Not One Inch Scale Accordingly	WASHINGTON

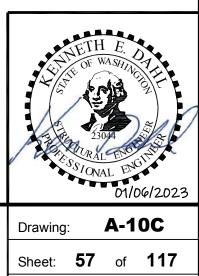


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			Γ	OOR HARDWAF	RE SCHEDULE				
	SEE SPECIFICATIONS FOR DETAILED INFORMATION						COMMENTS		
FINISH	HINGES	PASSAGE LEVER	DEAD BOLT	WEATHERSTRIP RING	DOOR STOP / HOLD OPEN	CLOSER	EXTENSION BOLT	ASTRAGAL	
INT	YES	YES	YES	YES	YES	YES	NO	NO	KEY ALL LOCKS PER COUNTY REQUIREMENTS
INT	YES	YES	YES	YES	YES	YES	YES	YES	KEY ALL LOCKS PER COUNTY REQUIREMENTS
INT	YES	YES	NO	NO	YES	YES	NO	NO	NO LOCK SYSTEM
INT	YES	YES	NO	NO	YES	YES	NO	NO	

Iltants, LLC le, Suite 500 gton 98101	Designed: K. Dahl, P.E., S.E. Drawn: J. Lira	Scale: As Shown	Kitsap County Public Works 18 614 Division Street, MS 26	SIL
ants.com	Checked: R. Dorn, P.E.	One Inch at Full Scale	Port Orchard, WA 98366	



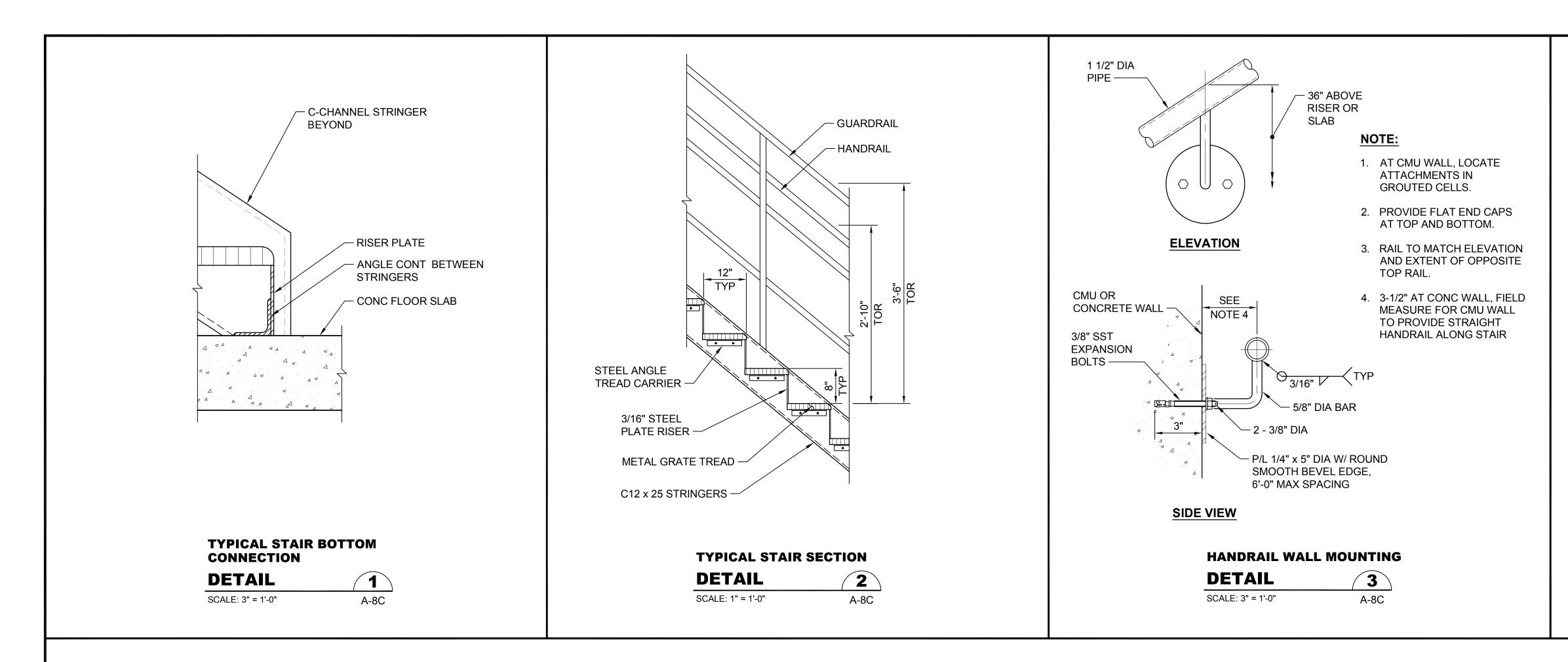


File: P19-10530\_A-10C

SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C

**TYPICAL DOOR AND LOUVER** DETAILS

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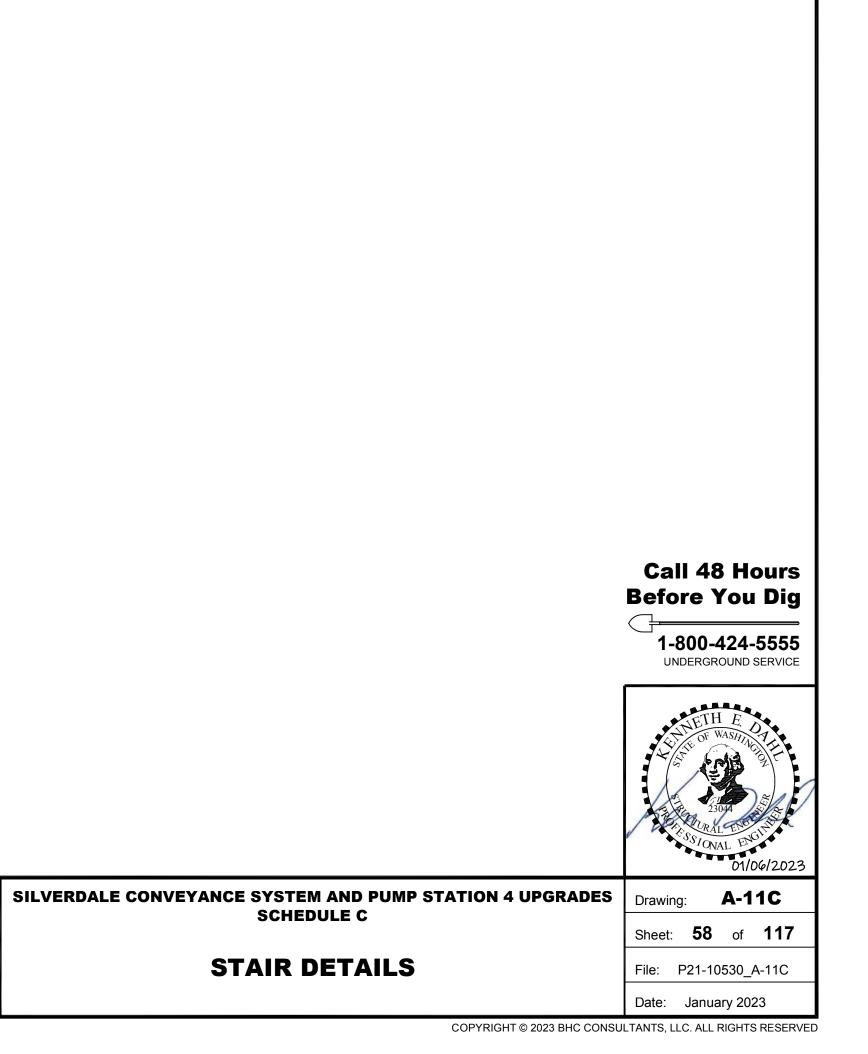
AD 10530 Silverdale Convey 34\_TB | Fisher | Dahl | Pa ounty\21-10530-PS sap Ci X21-<sup>></sup>ath: Xref

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ultants, LLC ue, Suite 500 gton 98101	Designed: K. Dahl, P.E., S.E.	Scale: As Shown	Kitsap County Public Works
	Drawn: P. Simon	One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366
ax) ants.com	Checked: T. Fisher, P.E.	If Not One Inch Scale Accordingly	WASHINGTON



# **GENERAL STRUCTURAL NOTES**

### A. GENERAL

### SCOPE

THE GENERAL STRUCTURAL NOTES AND TYPICAL STRUCTURAL DETAILS ARE GENERAL AND APPLY TO TO THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS OR MODIFICATIONS TO THE CONTRARY.

2. APPLICABLE SPECIFICATIONS AND CODES ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE BUILDING CODE. (SEE BELOW). THE PROVISIONS OF THE BUILDING CODE SHALL SUPERSEDE THE PLANS AND SPECIFICATIONS EXCEPT WHERE THE PLANS AND SPECIFICATIONS ARE MORE RESTRICTIVE.

IN ADDITION TO THE BUILDING CODE. CONSTRUCTION SHALL CONFORM TO OTHER STANDARDS AND CODES AS REFERENCED ON THE DRAWINGS OR IN THE SPECIFICATIONS.

3. DIMENSIONS STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS FOR DUCTS, PIPING, CONDUITS, ETC., NOT SHOWN. ALL OPENINGS IN STRUCTURAL MEMBERS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR SUBGRADE INFORMATION AND CRITERIA. VERIFY ALL DIMENSIONS WITH CIVIL, MECHANICAL, AND ELECTRICAL DRAWINGS

4. PROVISIONS FOR EQUIPMENT

MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, PIPE SLEEVES AND, PENETRATIONS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT REQUIRED BY OTHER CONTRACT DRAWINGS SHALL BE PROVIDED FOR. PRIOR TO CASTING CONCRETE.

- 5. CONSTRUCTION LOADS STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURES. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND SUPPORTS WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR.
- DRAINAGE SURFACES

SLOPE DRAINAGE SURFACES UNIFORMLY TO DRAIN. SLOPE SHALL BE 1/4" PER FOOT, EXCEPT WHERE NOTED OTHERWISE ON THE PLANS. AT CONTRACTOR'S OPTION, BOTTOM OF SLAB MAY BE LEVEL AND MAINTAIN A MINIMUM THICKNESS AT FLOOR DRAINS.

### **B. STRUCTURAL DESIGN DATA**

- GENERAL 1.
  - A. BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE WITH KITSAP COUNTY AMENDMENTS AND BY REFERENCE ASCE 7-16 MINIMUM DESIGN LOADS FOR AND BUILDINGS AND OTHER STRUCTURES.
  - B. OCCUPANCY: U
  - C. RISK CATEGORY IV
  - D. LOCATION: PS 4: 47.65° N, 122.66° W, EL 140

- A. DEAD LOAD: BUILDING STRUCTURE: ACTUAL PLUS 5 PSF COLLATERAL DEAD LOAD ON ROOF SYSTEM
- B. LIVE LOAD **BUILDING FLOOR: 250 PSF BUILDING ROOF: 25 PSF**
- C. SNOW LOAD GROUND SNOW LOAD Pg: 30 PSF FLAT-ROOF SNOW LOAD Pf: 31 PSF SLOPING ROOF SNOW LOAD, PS: PSF SNOW EXPOSURE FACTOR Ce: 1.0 SNOW LOAD IMPORTANCE FACTOR: Is = 1.2THERMAL FACTOR Ct = 1.2
- D. WIND DESIGN DATA BASIC WIND SPEED (3 SECOND GUST): 115 MPH WIND EXPOSURE: B ALL DIRECTIONS INTERNAL PRESSURE COEFFICIENT: ENCLOSED. GCpi = +/- .18 INTERNAL PRESSURE: ± 7 PSF

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### B. STRUCTURAL DESIGN DATA (cont.)

E. EARTHQUAKE DESIGN DATA:

SEISMIC IMPORTANCE FACTOR: le = 1.50 SEISMIC DESIGN CATEGORY: D SITE CLASS C  $S_{s} = 1.465$  $S_1 = 0.519$ F<sub>a</sub> = 1.2  $F_v = 1.481$ S<sub>DS</sub> = 1.177  $S_{D1} = 0.514$ 

**RESPONSE MODIFICATION FACTOR: 5.0** ANALYSIS PROCEDURE: EQUIVALENT STATIC FORCE PROCEDURE

F. SOILS DATA:

SOILS EXPLORATION INFORMATION IS CONTAINED IN "SILVERDALE PUMP STATION 4 UPGRADES TECHNICAL MEMO, PREPARED BY LANDAU ASSOCIATES DATED SEPTEMBER 24, 2021.

**TRAFFIC SURCHARGE: 100 PSF** SOIL BEARING PRESSURE ON STRUCTURAL BACKFILL: 3.0 KSF STATIC, 4 KSF WITH WIND OR EARTHQUAKE

FROST DEPTH: 12 INCHES **SLIDING FRICTION COEFFICIENT: 0.35** 

### C. CONCRETE

- SPECIFICATION FORMING, REINFORCEMENT, PLACING, CURING, AND FINISHING.
- 2. DESIGN STRESSES
  - A. CAST-IN-PLACE CONCRETE - STRUCTURAL CONCRETE: 4000 PSI AT 28 DAYS - PLAIN CONCRETE: 3000 PSI AT 28 DAYS

STRUCTURAL CONCRETE SHALL BE USED FOR FOUNDATIONS, WALLS, SLABS, EQUIPMENT PADS, AND ALL LOAD BEARING CONCRETE. ALL OTHER CONCRETE SHALL BE PLAIN CONCRETE.

- MINIMUM.
- 3. BAR SPLICES BASED ON THE SMALLER DIAMETER.
- 4. STANDARD HOOKS THE REQUIREMENTS OF THE BUILDING CODE.
- 5. SLOPING SLABS UNLESS OTHERWISE NOTED.
- 6. CHAMFERS HAVE FILLETS.
- CONSTRUCTION JOINTS AS SHOWN ON THE DRAWINGS.

### D. NON-SHRINK GROUT

GROUT FOR BASE PLATES, EQUIPMENT ANCHORAGE AND GENERAL PURPOSES SHALL BE APPROVED, NON-SHRINK CEMENTITIOUS GROUT CONTAINING NATURAL AGGREGATES DELIVERED TO THE JOB SITE IN FACTORY PREPACKAGED CONTAINERS REQUIRING ONLY THE ADDITION OF WATER, ASTM C1107 TYPE B OR C.



BASIC FORCE RESISTING SYSTEM: SPECIAL REINFORCED MASONRY SHEARWALLS

SEE SPECIFICATIONS FOR COMPLETE REQUIREMENTS FOR MIX DESIGNS.

B. REINFORCING STEEL SHALL BE ASTM A615 DEFORMED BARS, GRADE 60. WELDED WIRE FABRIC SHALL BE ASTM A185 SMOOTH WIRE - fy = 60 KSI

SPLICES OF REINFORCING STEEL BARS SHALL BE IN ACCORDANCE WITH THE BUILDING CODE AND SHALL BE CLASS B. UNLESS OTHERWISE NOTED. THE LENGTH OF LAP SPLICE OF BARS OF DIFFERENT DIAMETER SHALL BE

BARS ENDING IN RIGHT ANGLE BENDS OR HOOKS SHALL CONFORM TO

MONOLITHIC SLABS WITH TOPS THAT ARE SLOPED SHALL HAVE BOTTOMS SLOPED THE SAME AMOUNT, MAINTAINING A UNIFORM SLAB THICKNESS.

EXCEPT AS OTHERWISE NOTED, EXPOSED CONCRETE CORNERS AND EDGES SHALL HAVE 3/4" CHAMFERS, RE-ENTRANT CORNERS SHALL NOT

ENGINEER APPROVAL IS REQUIRED FOR ANY CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS. CONSTRUCTION JOINTS SHALL BE DETAILED

### E. MASONRY

CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE BUILDING CODE. ALL HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, MEDIUM WEIGHT. MINIMUM REQUIRED BLOCK COMPRESSIVE STRENGTH IS 2,800 PSI. ALL CELLS CONTAINING REINFORCEMENT SHALL BE FILLED SOLID WITH CONCRETE GROUT. REMAINING CELLS SHALL BE FILLED WITH LOOSE GRANULAR INSULATION. GROUT MIX SHALL CONTAIN PORTLAND CEMENT ONLY, AGGREGATE, AND A GROUT-ENHANCING SHRINKAGE-COMPENSATING ADDITIVE. MAXIMUM SIZE OF AGGREGATE SHALL BE 3/8 INCH. SLUMP SHALL BE 8 TO 11 INCHES. WATER-REDUCING ADMIXTURES MAY BE USED. MINIMUM GROUT COMPRESSIVE STRENGTH BASED ON 28-DAY TESTS SHALL BE 2,000 PSI AND GREATER THAN OR EQUAL TO THE SPECIFIED MINIMUM DESIGN STRENGTH. GROUT SHALL BE VIBRATED WHILE PLACING TO ENSURE THAT CELLS ARE COMPLETELY FILLED. SUBMIT GROUT MIXES TO STRUCTURAL ENGINEER FOR REVIEW BEFORE COMMENCING MASONRY CONSTRUCTION. ALL UNITS SHALL BE LAID IN RUNNING BOND USING TYPE S MORTAR WITH HEAD JOINTS. MASONRY DESIGN STRENGTH IS f'm = 2.000 PSI.

### F. SUPPLEMENTAL MASONRY JOINT REINFORCING

- 1. DESCRIPTION: WELDED-WIRE UNITS PREFABRICATED WITH DEFORMED CONTINUOUS SIDE RODS AND PLAIN CROSS RODS INTO STRAIGHT LENGTHS OF NOT LESS THAN 10 FEET, WITH PREFABRICATED CORNER AND TEE UNITS. AND COMPLYING WITH REQUIREMENTS INDICATED BELOW:
  - A. WIRE DIAMETER FOR SIDE RODS: 0.1875 INCH.
  - B. WIRE DIAMETER FOR CROSS RODS: 0.1483 INCH (9 GAGE)
- 2. EXTERIOR WALLS: STAINLESS STEEL WIRE, TYPE 304 COMPLYING WITH ASTM A 580.
- 3. INTERIOR WALLS: GALVANIZED CARBON STEEL WIRE, COATING CLASS AS REQUIRED UNIT MASONRY STANDARD.

### G. WOOD

1. FRAMING LUMBER

FRAMING LUMBER SHALL BE KILN DRIED OR MC-15, AND GRADED AND MARKED IN CONFORMANCE WITH WEST COAST LUMBER INSPECTION BUREAU STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 16, LATEST EDITION. FURNISH TO THE FOLLOWING MINIMUM STANDARDS: UNLESS NOTED OTHERWISE.

2x JOISTS AND BUILT-UP MEMBERS	HEM-FIR NO. 2
3x AND 4x BEAMS AND POSTS	DOUGLAS FIR-LARCH NO. 2
TOP AND BOTTOM PLATES AT BEARING WALLS	DOUGLAS FIR-LARCH CONSTRUCTION GRADE
BOLTED STUDS, LEDGERS AND PLATES	DOUGLAS FIR-LARCH STANDARD GRADE

**ROOF SHEATHING** 

PROVIDE 15/32 INCH-CDX-PLYWOOD, INDEX 32/16, BLOCKED, LAID UP WITH FACE GRAIN PERPENDICULAR TO FRAMING BELOW. STAGGER PANEL END JOINTS. PROVIDE APPROVED EDGE CLIPS AT 24 INCHES ON CENTER AT UNBLOCKED ROOF SHEATHING EDGES. PROVIDE 1/8-INCH GAP BETWEEN ALL ABUTTING PANEL EDGES. PROVIDE THE FOLLOWING MINIMUM NAILING UNLESS NOTED OTHERWISE ON PLANS

10d AT 6 INCHES ON CENTER

ALL SUPPORTED PANEL EDGES. DIAPHRAGM BOUNDARIES AND OVER EXTERIOR WALLS

10d AT 12 INCHES ON CENTER

FIELD NAILING

<b>nts, LLC</b> uite 500 98101	Designed: K. Dahl, P.E., S.E.	Scale: N/A	Kitsap County Public Works
	Drawn: A. Bradley	One Inch at Full Scale	614 Division Street, MS 26 Port Orchard, WA 98366
com	Checked: T. Fisher, P.E.	If Not One Inch Scale Accordingly	WASHINGTON

### TREATED WOOD 3

ALL WOOD PLATES, LEDGERS, AND BLOCKING IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) APPROVED PRESERVATIVE. ALTERNATIVELY PER IBC SECTION 2304.11, FOR SOME EXCEPTIONS, IMPERVIOUS MOISTURE BARRIERS MAY BE PROVIDED BETWEEN UNTREATED MEMBERS AND CONCRETE OR MASONRY.

ALL METAL FASTENERS IN CONTACT WITH TREATED WOOD SHALL BE GALVANIZED PER ASTM F2329 OR STAINLESS STEEL. WHEN USING GALVANIZED FASTENERS, THE CONTRACTOR SHALL VERIFY THE GALVANIZATION PROCESS WITH THE CHEMICAL COMPOSITION OF THE WOOD TREATMENT.

### TIMBER CONNECTORS 4.

TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE BY SIMPSON STRONG-TIE COMPANY, INC, AS SPECIFIED IN THE LATEST EDITION OF THEIR CATALOG. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE CURRENT ICC-ES EVALUATION REPORTS DEMONSTRATING THAT THE PRODUCTS HAVE EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED SPECIFICATIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. UNLESS NOTED OTHERWISE, ALL NAILS SHALL BE COMMON. ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED. ALL SINGLE JOISTS, DOUBLE JOISTS, AND TRIPLE JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "U" SERIES JOIST HANGERS.

### 5. NAILS

- A. NAILS SHALL BE GALVANIZED COMMON WIRE NAILS.
- B. MINIMUM NAILING PER 2015 IBC TABLE 2304.10.1.
- C. PRE DRILLED HOLES SHALL BE 1/16" LESS THAN SPIKE DIAMETER. WHERE SPLITTING OF WOOD MAY OCCUR, HOLES SHALL BE 1/32" LESS THAN NAIL DIAMETER AND DIAMETER OF NAIL LESS THAN THE PENETRATION OF THE NAIL.

### WOOD FRAMING DETAILS

THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS.

- A. PLYWOOD WALL SHEATHING SHALL HAVE SOLID BLOCKING AT ALL EDGES. PROVIDE THE FOLLOWING MINIMUM NAILING UNLESS NOTED OTHERWISE ON PLANS:
  - 8D AT 6 INCHES ON CENTER AT SHEET EDGES 8D AT 12 INCHES ON CENTER AT INTERMEDIATE BEARING POINTS
- B. ALL MASONRY WALLS SHALL HAVE A DOUBLE TOP PLATE. WHERE BREAKS IN A PLATE OCCUR THEY SHALL BE LAPPED BY THE OTHER PLATE A MINIMUM OF 4'-0" AND NAILED TOGETHER WITH SIMPSON MSTA36.

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SILV	ERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C	Drawing:	S-1C
	STRUCTURAL GENERAL NOTES	Sheet: 59	of <b>117</b>
	1 OF 2	File: P21-10	530-PS4_S-1C
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<sup>2.</sup> DESIGN LOADS

# STRUCTURAL ABBREVIATIONS

### H. PREFABRICATED WOOD TRUSSES

THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF PREFABRICATED OPEN WEB WOOD TRUSSES (OR COMBINATION WOOD AND METAL). THESE MEMBERS SHALL BE DESIGNED FOR THE SPANS AND CONDITIONS SHOW ON THE PLANS AND SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S PUBLISHED SPECIFICATIONS. ALL NECESSARY BRACING, BRIDGING, BLOCKING, PRE-NOTCHED PLATES, ETC, SHALL BE DETAILED AND FURNISHED BY THE CONTRACTOR.

THE FOLLOWING TRUSS LOADING IS TYPICAL UNLESS NOTED OTHERWISE ON PLANS AND/OR LOAD MAPS.

TOP CHORD LIVE LOAD (SNOW) 25 PSF TOP CHORD DEAD LOAD 15 PSF

BOTTOM CHORD DEAD LOAD 10 PSF OR 2-200 LB. POINT LOADS APPLIED AT JOINTS, WHICHEVER IS LARGER.

ROOF TRUSSES SUPPORTING SNOW LOADS SHALL BE DESIGNED TO RESIST THE STRUCTURAL FORCES SET FORTH IN SECTION 1608 OF THE IBC. ROOF TRUSS DEFLECTION SHALL MEET THE MINIMUM IBC REQUIREMENTS UNLESS A MORE STRINGENT CRITERIA IS NOTED ON THE PLANS.

FLOOR LIVE LOAD DEFLECTION SHALL BE A MAXIMUM OF L/480, AND TOTAL LOAD DEFLECTION SHALL BE A MAXIMUM OF L/240, WHERE "L" IS THE SPAN IN INCHES.

IF USED. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF PREFABRICATED CONNECTOR PLATE WOOD ROOF TRUSSES. THESE MEMBERS SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH ANSI/TPI 1. "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION," UTILIZE APPROVED CONNECTOR PLATES (GANGNAIL OR APPROVED EQUAL).

SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS (COMPLETE WITH STRESS DIAGRAMS) TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW A MINIMUM OF TWO WEEKS PRIOR TO FABRICATION. SUBMITTED DOCUMENTS SHALL BEAR THE STAMP AND SIGNATURE OF AN ENGINEER LICENSED TO PERFORM THE WORK IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.

PERMANENT AND TEMPORARY BRIDGING AND BRACING SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S PUBLISHED SPECIFICATIONS REQUIREMENTS

### METAL ROOF PANELS

PROVIDE WEATHERTIGHT PREFORMED METAL ROOF PANELS. PANEL PROFILE SHALL BE AEP DESIGN SPAN HP,16" WIDE COVERAGE OR APPROVED EQUIVALENT. PANELS SHALL BE MANUFACTURED FROM 22 GA MINIMUM PER ASTM A792, GRADE 50, STEEL. PROVIDE PROTECTIVE COATINGS PER ASTM A792. ATTACH PANELS TO FRAMING PER MANUFACTURER REQUIREMENTS TO RESIST UL 90 UPLIFT LOADING. PROVIDE A COMPLETE WATERPROOF SYSTEM INCLUDING REQUIRED FLASHING, END STOPS, AND OTHER ACCESSORIES.

### J. FOUNDATION PREPARATION

FOUNDATIONS, UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT, SHALL BEAR ON UNDISTURBED, DENSE ALLUVIAL SOIL. IF UNDISTURBED, DENSE ALLUVIAL SOIL IS NOT FOUND AT THE BOTTOM OF THE FOOTING ELEVATION. WEAK MATERIAL SHALL BE REMOVED AND REPLACED WITH COMPACTED BACKFILL IN ACCORDANCE WITH THE SPECIFICATIONS. PROVIDE GRADED CRUSHED OR NATURAL ROCK BASE COURSE BENEATH CONCRETE SLABS OR FOOTINGS WHERE INDICATED.

BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY USING ASTM D1557.

K.	SPE	ECIAL	INSP	ECTION	
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IN ADDITION TO THE INSPECTIONS REQUIRED BY SECTION 1701 OF THE IBC, SPECIAL INSPECTIONS SHALL BE PROVIDED DURING CONSTRUCTION OF THE FOLLOWING WORK:

- DURING THE PLACEMENT OF CONCRETE AROUND BOLTS.
- 1705.4.
- 3. ALL CONCRETE: SHALL BE INSPECTED IN ACCORDANCE WITH REQUIREMENTS OF 2018 IBC PARAGRAPH 1705.3.
- 5. ROOF SHEATHING NAILING AND CONNECTOR INSTALLATION.

### L. DEFERERED STRUCTURAL SUBMITTALS

SOME STRUCTURAL SYSTEMS ARE DEFINED AS VENDOR-DESIGNED COMPONENTS PER STRUCTURAL DOCUMENTS. THE ELEMENTS OF DESIGN ARE DEFERRED SUBMITTAL COMPONENTS AND HAVE NOT BEEN PERMITTED UNDER THE BASE BUILDING APPLICATION. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT THE STAMPED COMPONENT SYSTEM DOCUMENTS TO THE BUILDING OFFICIAL FOR APPROVAL.

DOCUMENTS FOR PREFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ENGINEER, WHO SHALL REVIEW THEM FOR GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE CONTRACTOR SHALL SUBMIT THESE REVIEWED DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

THE FOLLOWING LIST INCLUDES THE ITEMS THAT ARE DEFINED AS DEFERRED STRUCTURAL SUBMITTAL COMPONENTS. REFER TO THE ARCHITECTURAL, MECHANICAL. ELECTRICAL, AND CIVIL DRAWINGS FOR ADDITIONAL DEFERRED SUBMITTAL COMPONENTS.

DEFERRED STRUCTURAL SUBMITTAL COMPONENTS: PREFABRICATED WOOD TRUSSES

### M. STRUCTURAL OBSERVATIONS

THE ENGINEER OF RECORD SHALL PROVIDE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS, AT SIGNIFICANT CONSTRUCTION STAGES AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY IBC SECTIONS 109, 1704 OR OTHER SECTIONS OF THE INTERNATIONAL BUILDING CODE. STRUCTURAL OBSERVATION REPORTS SHALL BE ISSUED TO THE OWNER, ARCHITECT, CONTRACTOR, AND BUILDING OFFICIAL AT THE SIGNIFICANT CONSTRUCTION STAGES.

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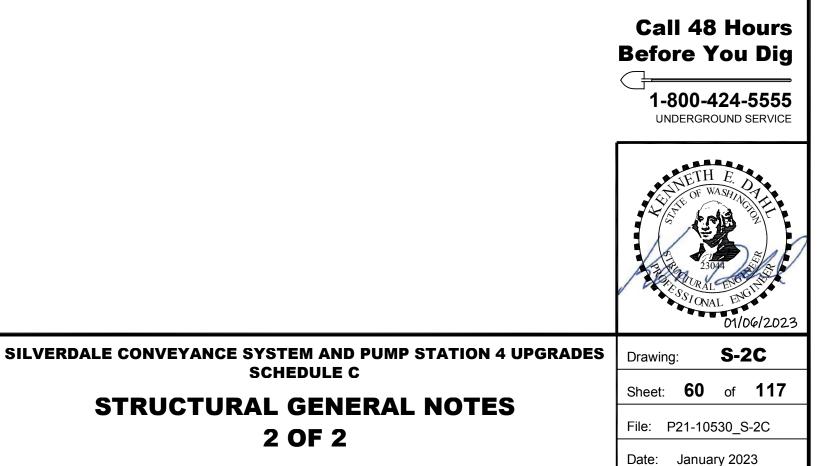
1. ANCHOR BOLTS: INSTALLED IN CONCRETE OR MASONRY PRIOR TO AND

2. ALL MASONRY CONSTRUCTION: SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH LEVEL B REQUIREMENTS OF 2018 IBC PARAGRAPH

4. PLACEMENT: OF ALL REINFORCING STEEL SHALL BE INSPECTED.

sultants, LLC nue, Suite 500 ngton 98101	Designed: K. Dahl, P.E., S.E.	Scale: N/A	Kitsap
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(fax) ultants.com	Checked: T. Fisher, P.E.	If Not One Inch Scale Accordingly	WASHINGTON POIL OICHAI

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### STRUCTURAL ABBREVIATIONS

@	AT	GA	GAGE
AB	ANCHOR BOLT	GALV	GALVANIZED
ACI	AMERICAN CONCRETE INSTITUTE	GL	GLUE LAMINATED LUMBER
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	GLULAM	GLUE LAMINATED BEAM
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	GWB	GYPSUM WALL BOARD
AL	ALUMINUM		
ALT	ALTERNATE	HORIZ or H	HORIZONTAL
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	HT	HEIGHT
APPROX	APPROXIMATE ARCH ARCHITECTURAL		
ARCH	ARCHITECT	IBC	INTERNATIONAL BUILDING CODE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	ID	INSIDE DIAMETER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	IF	INSIDE FACE
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION	IN or "	INCH
AWS	AMERICAN WELDING SOCIETY	IOT	
		JST	JOIST
BLDG	BUILDING	JT	JOINT
BM	BEAM	к	KIP
BOT BP	BOTTOM BASE PLATE	K KSF	KIPS PER SQUARE FEET
BR	BRICK	NOF	RIFS FER SQUARE FEET
BRG	BRICK BEARING	L	LENGTH or METAL ANGLE
		LBS	POUNDS
СВ	CORNER BAR	LBS	LINEAR FEET
CC	CENTER TO CENTER		LONG LEG VERTICAL
CF	CUBIC FEET	LONGIT	LONGITUDINAL
CFS	COLD FORMED STEEL	LSL	TIMBERSTRAND RIM BOARD
CIP	CAST-IN-PLACE	LVL	LAMINATED VENEER LUMBER
CJ	CONSTRUCTION JOINT		
C/L	CENTER LINE	MAX	MAXIMUM
CLR	CLEARANCE, CLEAR	MECH	MECHANICAL
CLSM	CONTROLLED LOW STRENGTH MATERIAL	MFR	MANUFACTURER
CNR	CORNER	MIN	MINIMUM
CMU	CONCRETE MASONRY UNIT	MISC	MISCELLANEOUS
COL	COLUMN	MO	MASONRY OPENING
CONC	CONCRETE	MPH	MILES PER HOUR
CONN	CONNECTION		
CONT	CONTINUOUS	Ν	NORTH
CPLG	COUPLING	N/A	NOT APPLICABLE
CTR	CENTER	NIC	NOT IN CONTRACT
		NO.	or # NUMBER
DBA	DEFORMED BAR ANCHOR	NOM	NOMINAL
DEG or °	DEGREES	NS	NEAR SIDE
DI	DUCTILE IRON	NTS	NOT TO SCALE
DIA OR Ø	DIAMETER		
DWG	DRAWING	OC	ON CENTER
		OD	OUTSIDE DIAMETER
EA	EACH	OF	OUTSIDE FACE
EF	EACH FACE	OPNG	OPENING
EJ	EXPANSION JOINT	OPP	OPPOSITE
EL, ELEV	ELEVATION	50	
ELEC	ELECTRICAL	PC	
EMBED	EMBEDMENT	PCF	POUNDS PER CUBIC FOOT
EQ	EQUAL	PERF	
ES	EACH SIDE	PJF PL	PREFORMED JOINT FILLER
EW	EACH WAY	PL PS	PLATE
EX	EXISTING	_	PRESTRESSING TENDON
EAD		PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH
FAB	FABRICATION	PSI	POUNDS PER SQUARE INCH PARALLEL STRESSED LUMBER
FB	FLAT BAR	PSL PT	PARALLEL STRESSED LUMBER PRESSURE TREATED, POST TENSIO
FIN		ГІ	FILSSURE IREATED, PUST TENSIC
FF	FINISHED FLOOR	R	RADIUS
	FLOOR		
FS	FAR SIDE	REINF	REINFORCEMENT
FLR FS FT or ' FTG	FAR SIDE FOOT or FEET FOOTING	RO	ROUGH OPENING

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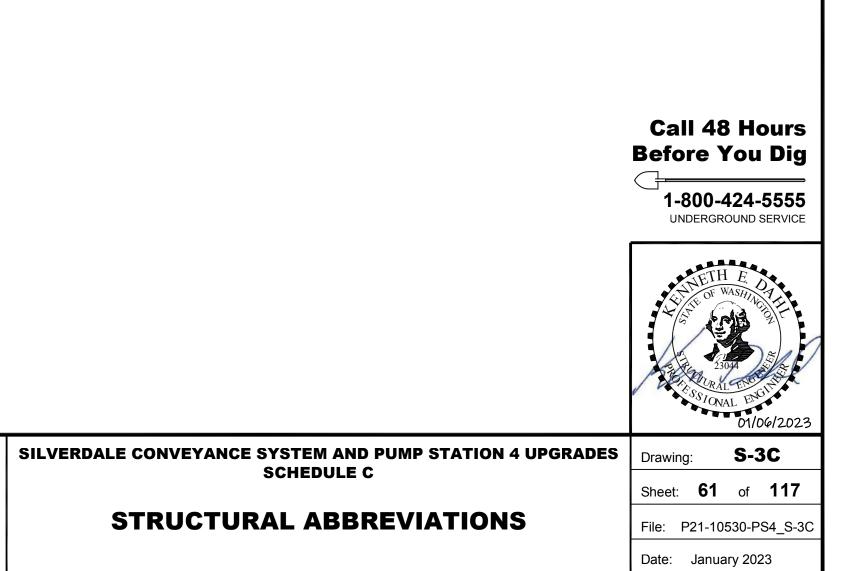
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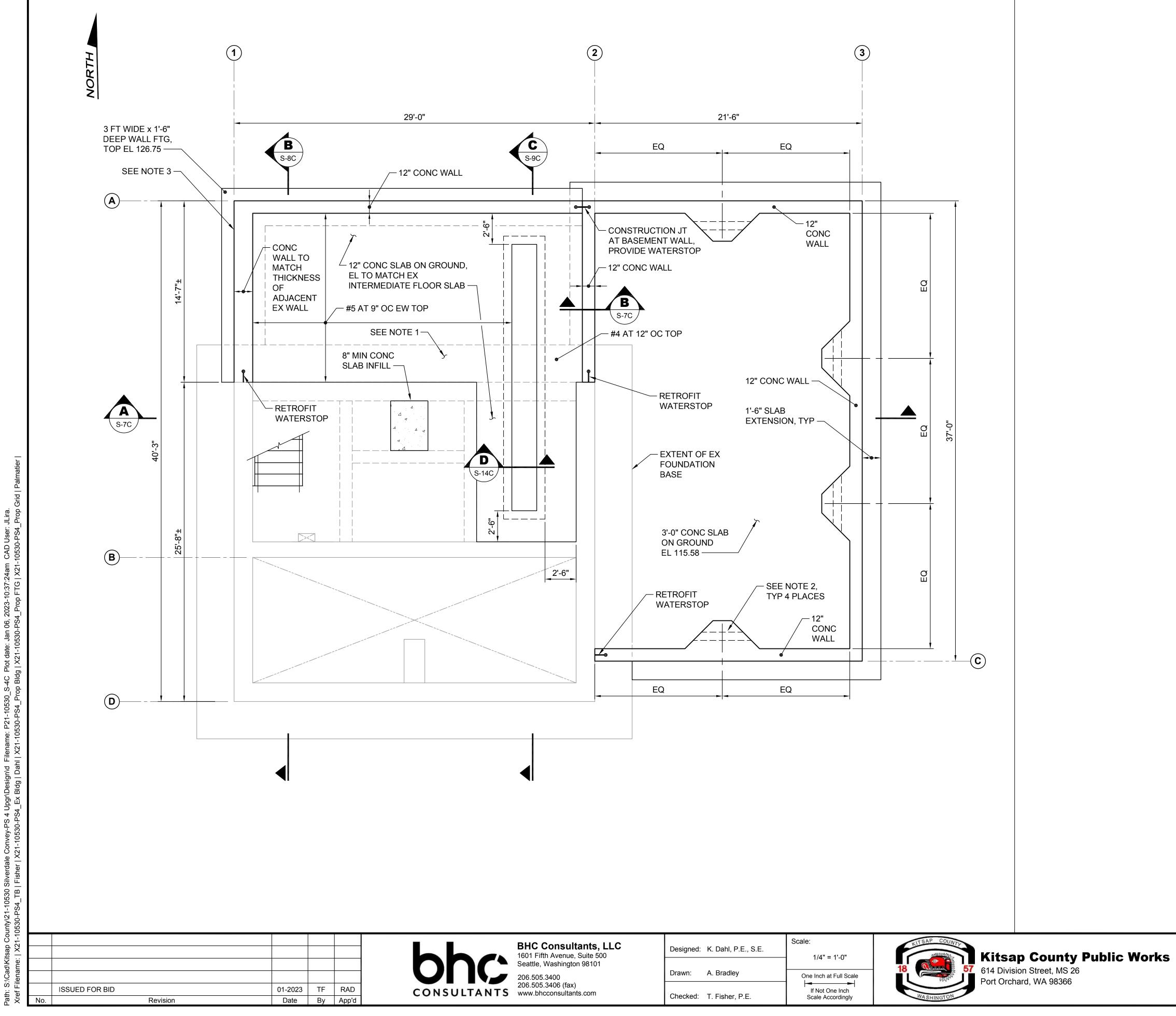


SIM	SIMILAR
SL	SLOPE
SOG	SLAB ON GRADE
SP	SPACE
SPEC	SPECIFICATIONS
SQ	SQUARE
SQ IN	SQUARE INCH
SST	STAINLESS STEEL
STIR	STIRRUP
STD	STANDARD
STL	STEEL
STR	STRUCTURAL
SYM	SYMMETRY
T&B	TOP AND BOTTOM
TEMP	TEMPORARY
ТОС	TOP OF CONCRETE
TOF	TOP OF FOOTING
ТОМ	TOP OF MASONRY
TOS	TOP OF STEEL, TOP OF SLAB
TOW	TOP OF WALL
TPI	TRUSS PLATE INSTITUTE
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAR	VARIES
VERT OR V	VERTICAL
W	WEST, WIDTH
W/	WITH
W/O	WITHOUT
WHS	WELDED HEADED STUD
WP	WORK POINT
WSDOT	WASHINGTON STATE DEPARTMENT OF
	TRANSPORTATION
WWR	WELDED WIRE REINFORCEMENT

EATED, POST TENSIONED

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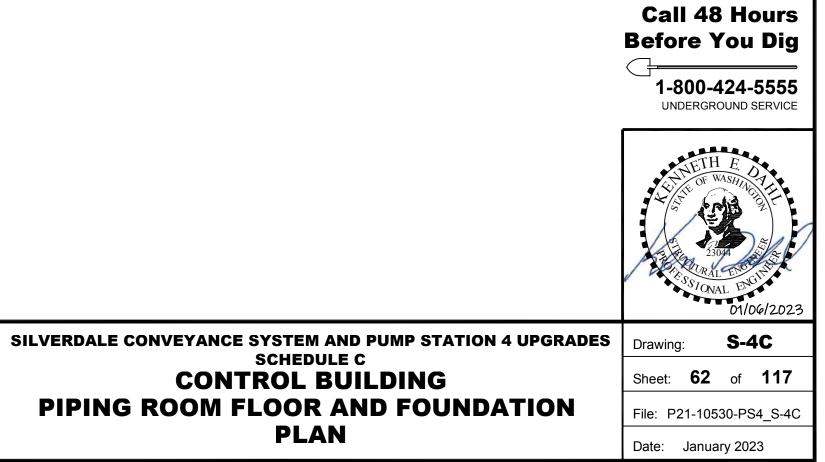


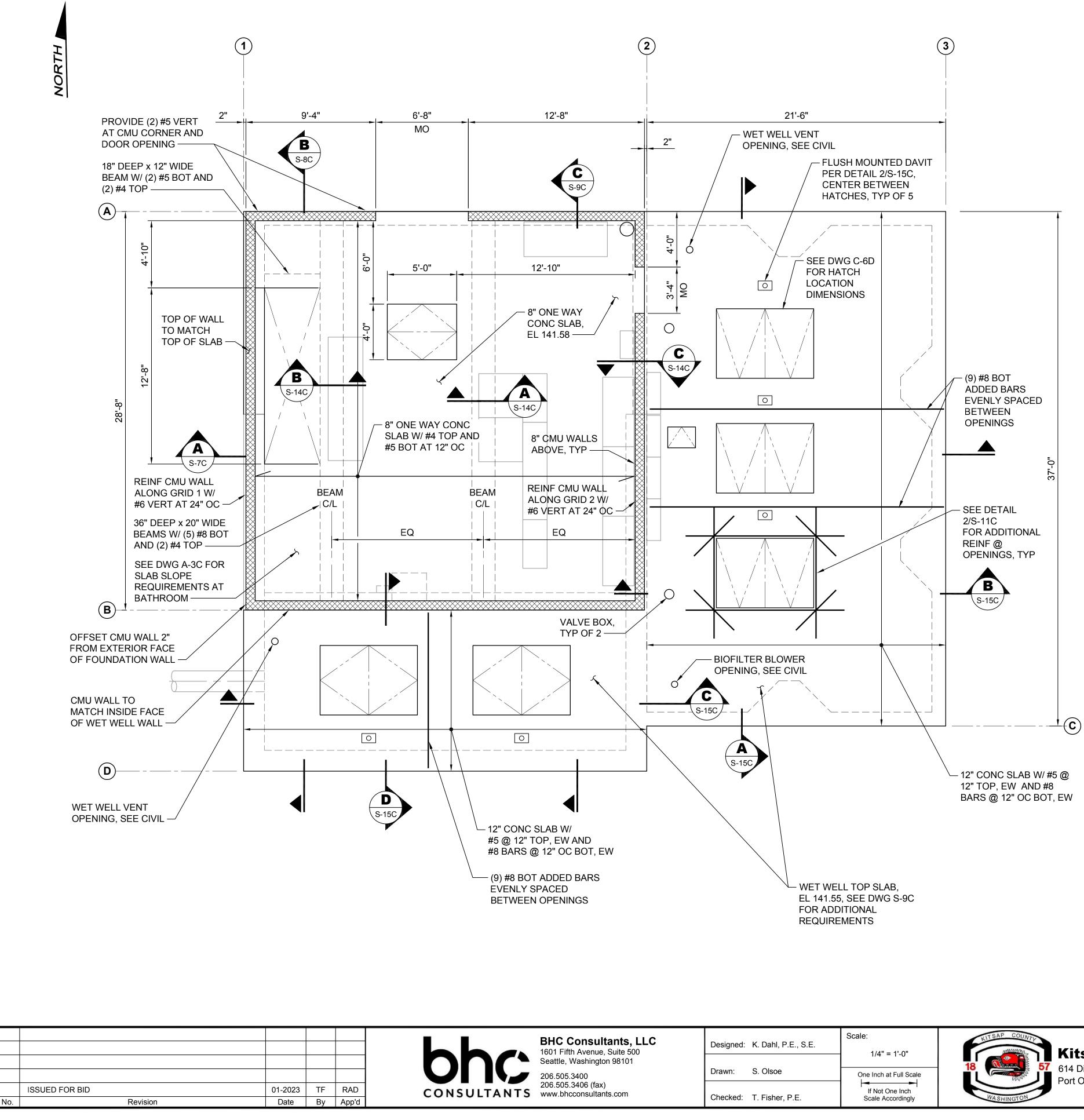


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ngton 98101				18
	Drawn:	A. Bradley	One Inch at Full Scale	
fax) Itants.com	Checked:	T. Fisher, P.E.	If Not One Inch Scale Accordingly	WAS

### NOTES:

- 1. NEW FLOOR ELEVATION TO MATCH EXISTING FLOOR ELEVATION. APPROXIMATE ELEVATION IS 128.25. FIELD VERIFY.
- 2. PROVIDE PVC PIPE SLEEVE TO MATCH CENTERLINE OF INCOMING PIPE. INSIDE DIAMETER OF SLEEVE SHALL BE 1 INCH LARGER THAN OUTSIDE OF INCOMING PIPE.
- 3. REINFORCE WALL ALONG GRID 1 SAME AS SPECIFIED FOR WALL ALONG GRID A BETWEEN GRIDS 1 AND 2.



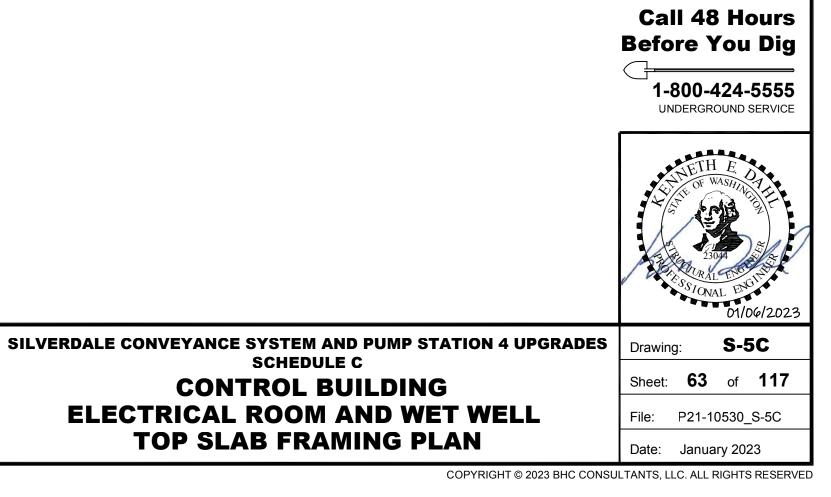


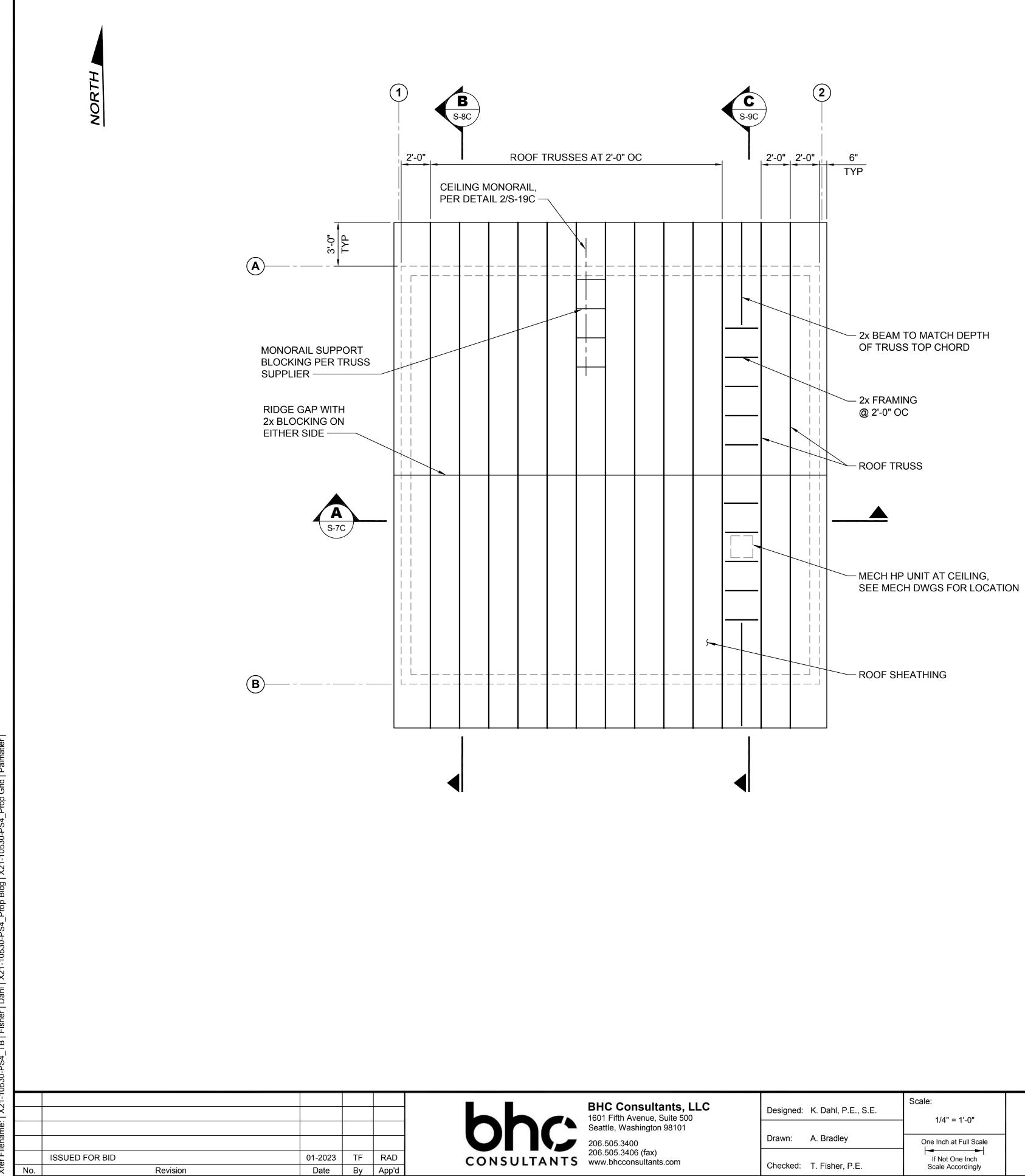
CAD User: JLira. -PS4\_Prop FTG | Бġ 10:39: X21-2023-` Bldg | 06, rop Jan S4\_P Plot date 10530-F Filename: P21-10530\_S-5C PS4\_Prop Mech | Dahl | X21 10530 Silverdale Convey-PS 4 Upgr\Design\d 54\_TB | X21-10530-PS4\_Ex Bldg | X21-10530 30-F X2

<b>ants, LLC</b> Suite 500 n 98101	Designed: K. Dahl, P.E., S.E. Drawn: S. Olsoe	Scale: 1/4" = 1'-0" One Inch at Full Scale	18 <b>Kitsap County Public Works</b> 614 Division Street, MS 26
ts.com	Checked: T. Fisher, P.E.	If Not One Inch Scale Accordingly	Port Orchard, WA 98366

### NOTES:

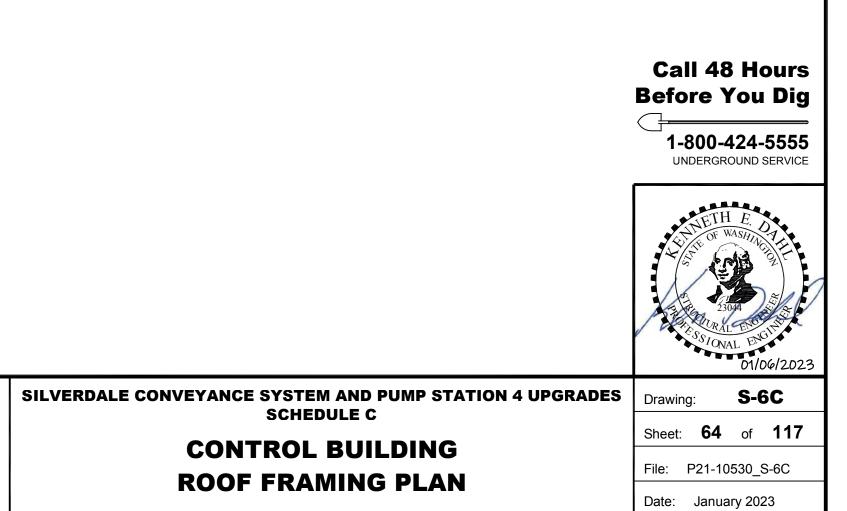
- 1. EXTERIOR CMU WALLS SHALL BE REINFORCED WITH #5 VERTS AT 24" OC CELLS WITHOUT REINFORCEMENT SHALL BE FILLED WITH VERMICULITE.
- 2. SEE CMU WALL TYPICAL DETAILS FOR HORIZONTAL AND OPENING REINFORCEMENT REQUIREMENTS.
- 3. TOP OF SLAB ELEVATION PER DWG C3-C.
- 4. SEE DWG C6-D FOR HATCH AND VALVE BOX LOCATIONS.

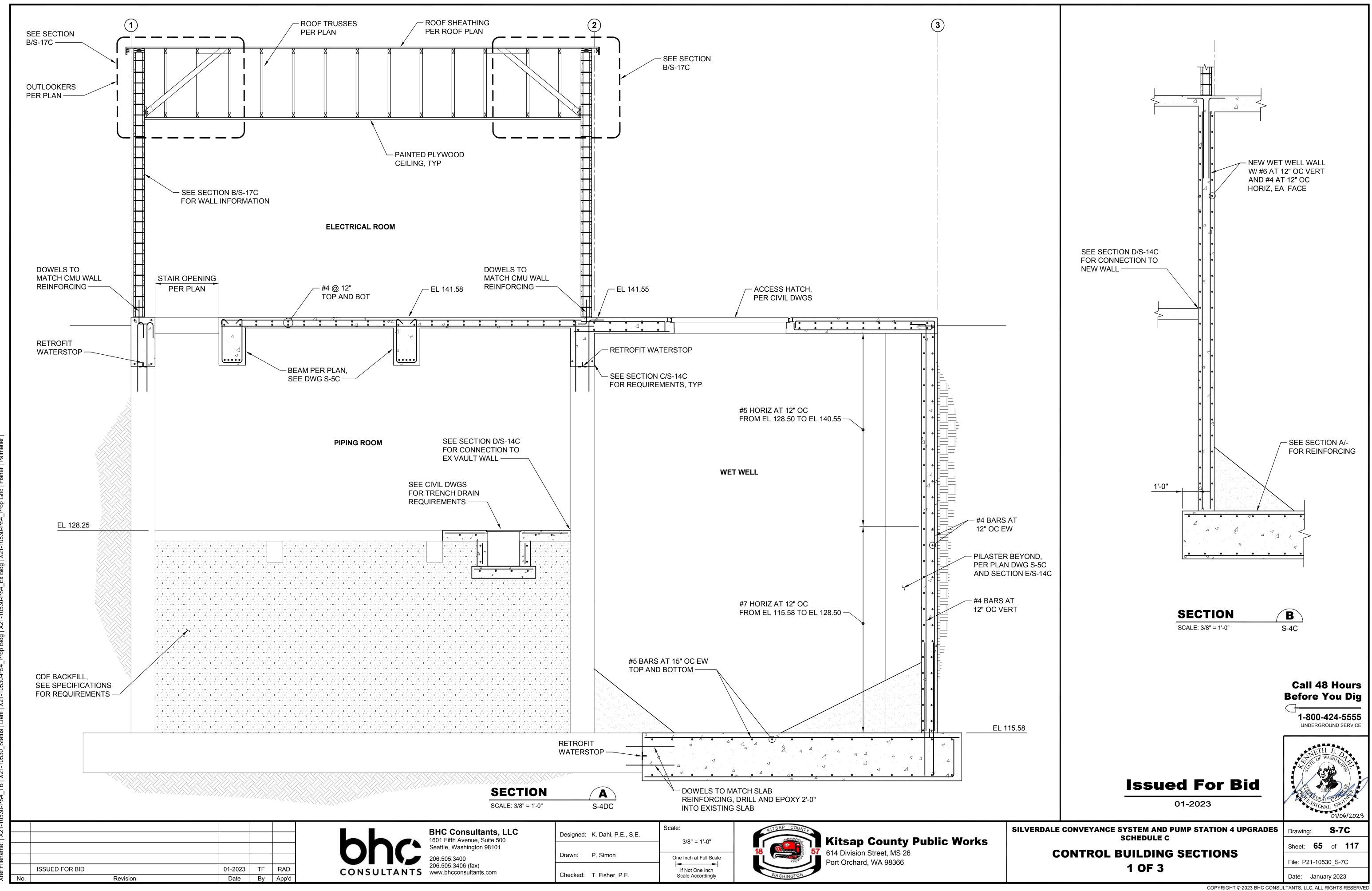




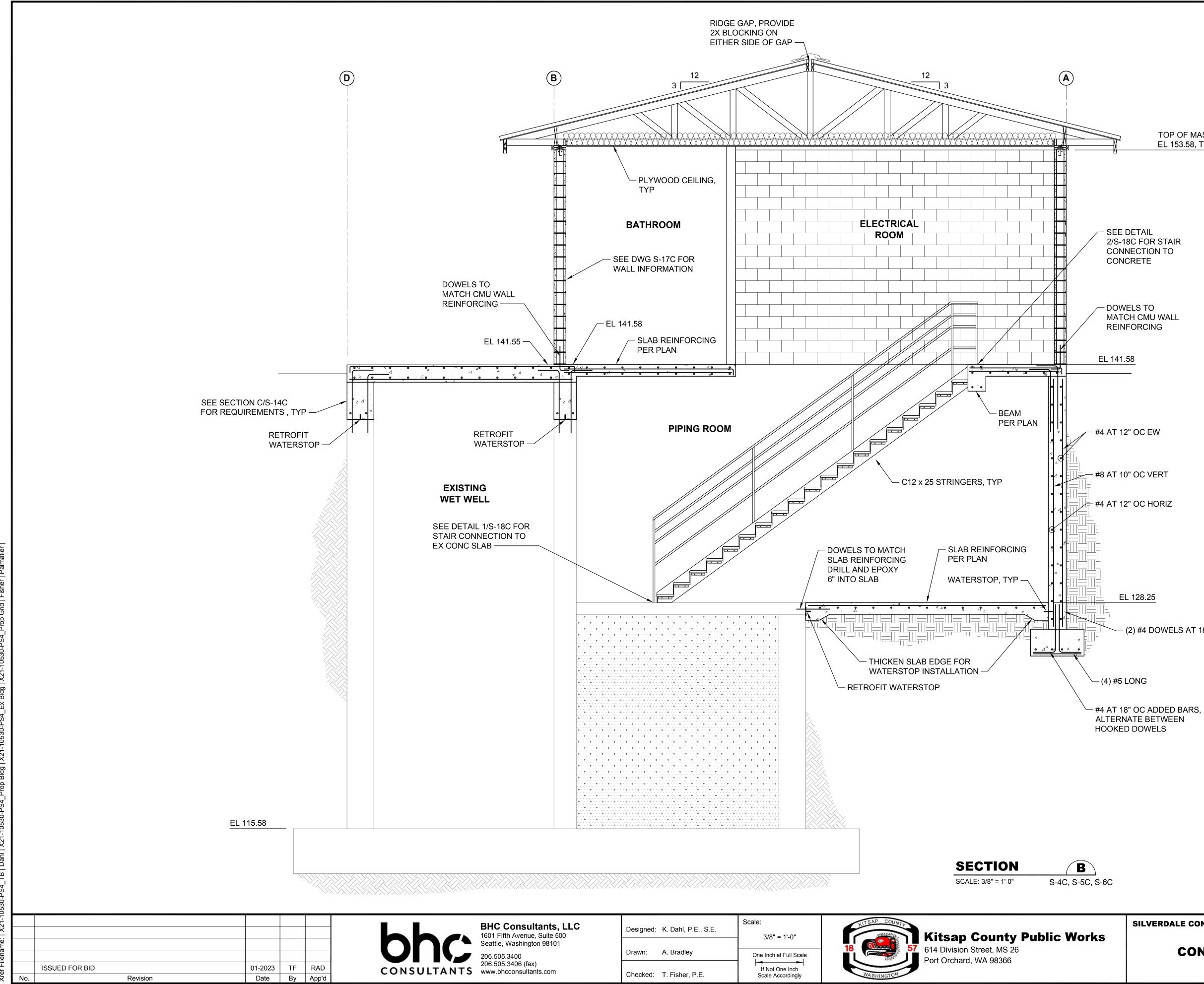
CAD Jan tier 10530 Silverdale Convey-PS 4 Upgr\Design\d Filename: P21-10530\_S-6C Plot da i4\_TB | Fisher | Dahl | X21-10530-PS4\_Prop Bldg | X21-10530-PS4\_Prop Grid | Pal ity/2 530-F Kitsap ( ie: | X21 S II Path: Xref |

tants, LLC , Suite 500 on 98101	Designed: K. Dahl, P.E., S.E.	Scale: 1/4" = 1'-0"	Kitsap County Public Works	
) hts.com	Drawn: A. Bradley Checked: T. Fisher, P.E.	One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366	





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:59 Jer 06, 2023-1 op Grid | Fl 0530\_S-8C Bldg | X21-1 -ilename: P21-10 -10530-PS4\_Ex E /Design/d Fi Bldg | X21ĥ Silverdale C Dahl | X21-TB 30 X2 ap

a <b>nts, LLC</b> Suite 500 n 98101	Designed: K. Dahl, P.E., S.E.	Scale: 3/8" = 1'-0"	Kitsap County Public Works	S
	Drawn: A. Bradley	One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366	
ts.com	Checked: T. Fisher, P.E.	If Not One Inch Scale Accordingly	WASHINGTON	

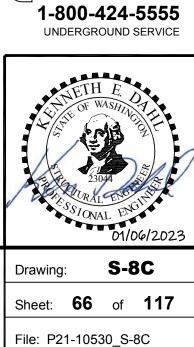
TOP OF MASONRY EL 153.58, TYP

2/S-18C FOR STAIR

MATCH CMU WALL

– (2) #4 DOWELS AT 18" OC



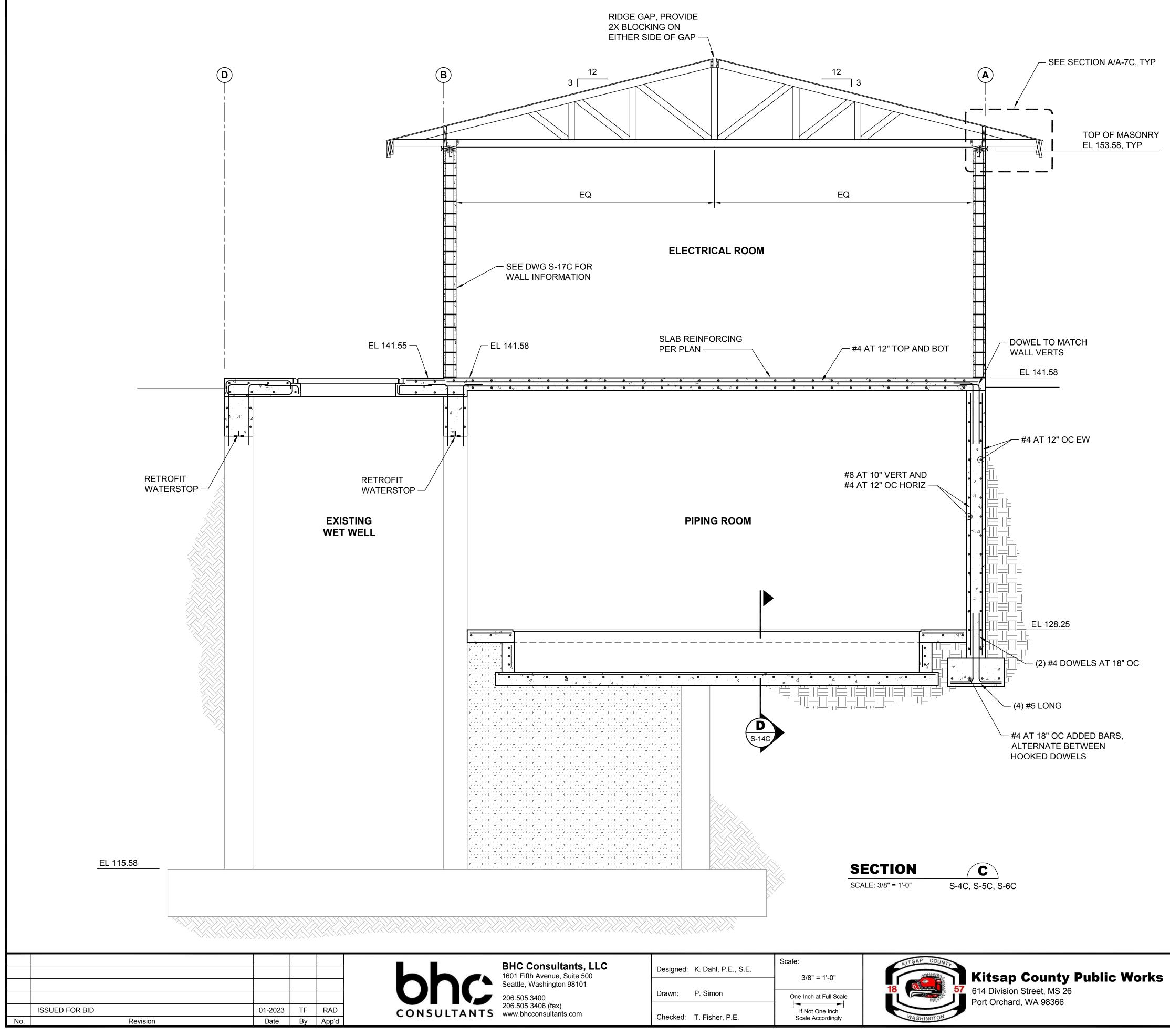


Date: January 2023

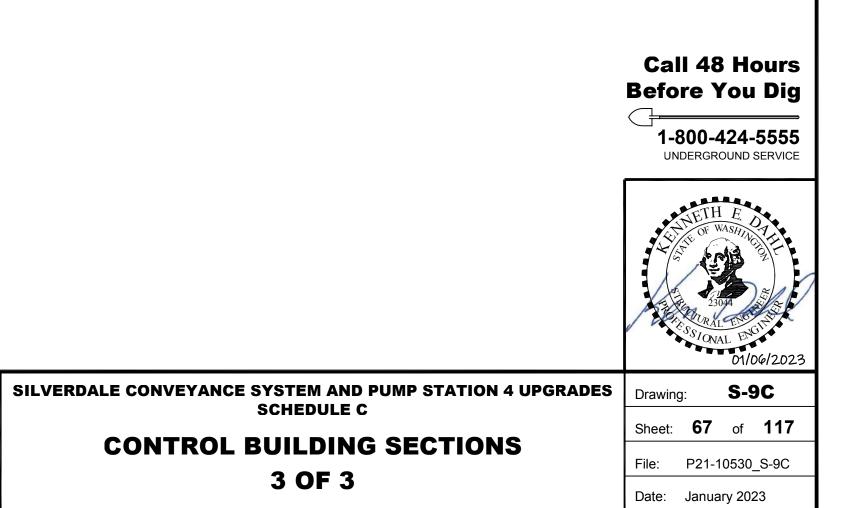
SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C

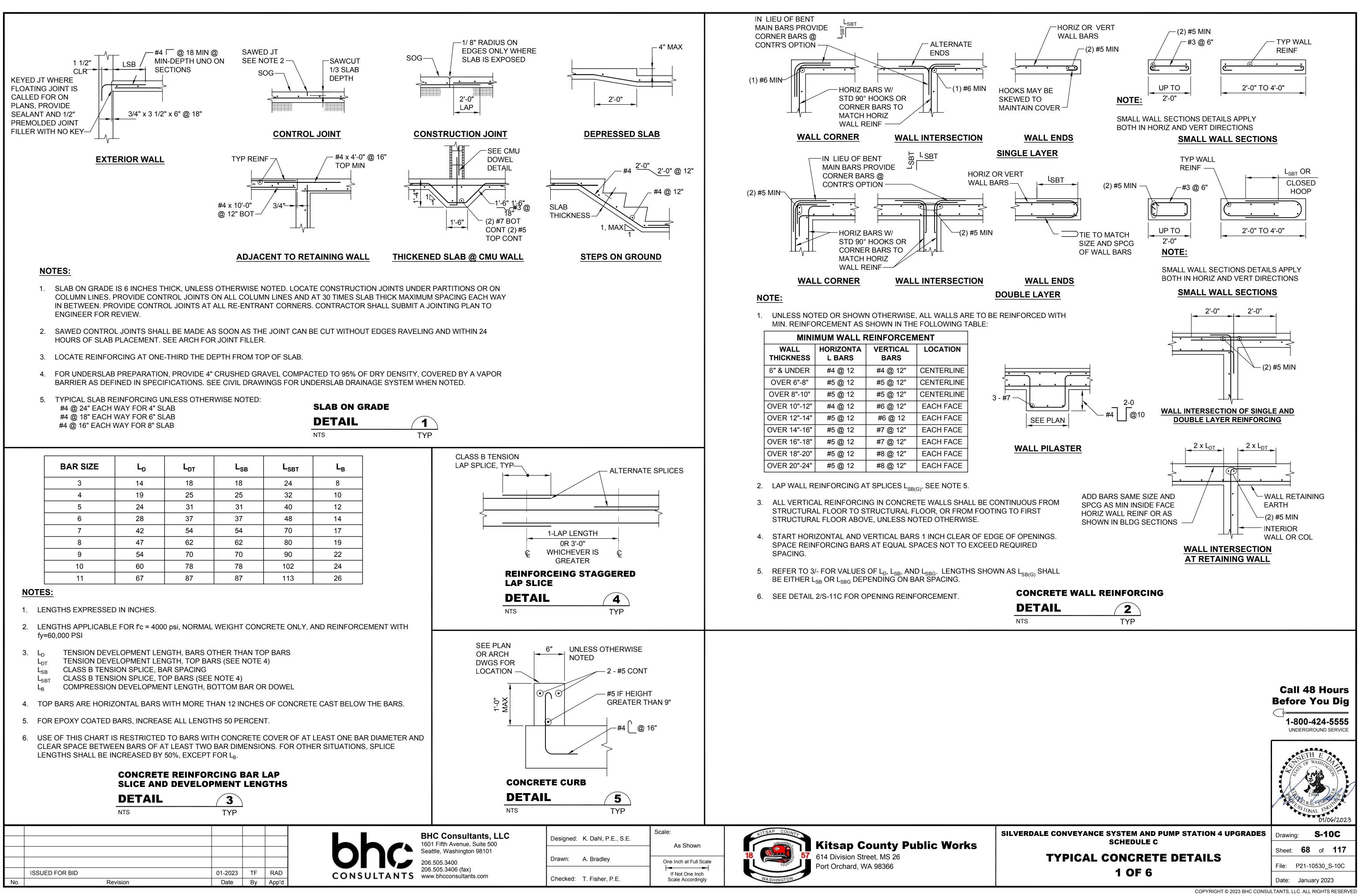
> **CONTROL BUILDING SECTIONS** 2 OF 3

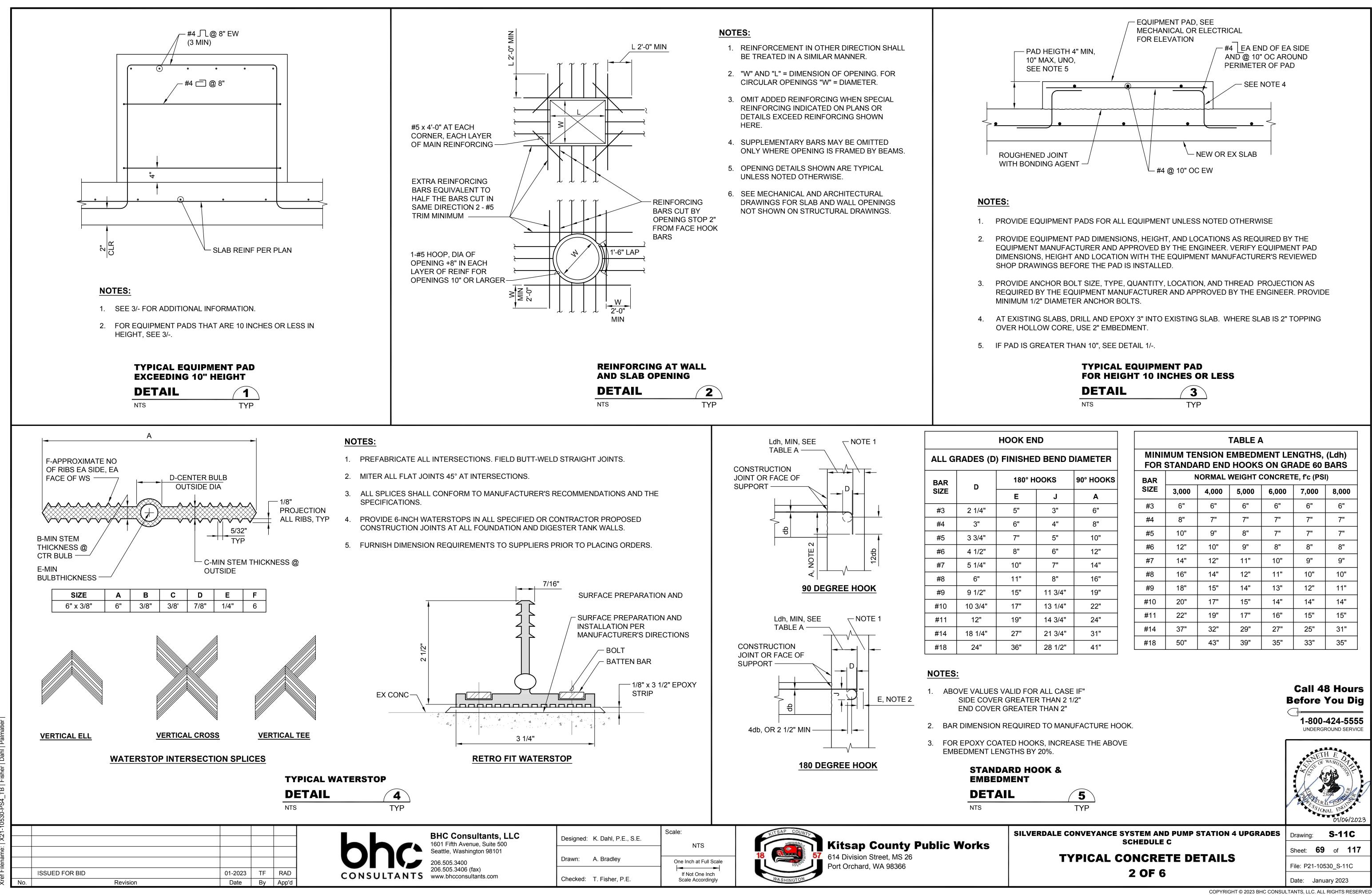
er | l1:02: Grid | : Jan 530-0530\_S-9C Plot dai PS4\_Ex Bldg | X21гиепате: ldg | X21-1 Convey-PS 4 Upgr\Design\ ahl | X21-10530-PS4\_Prop ler I D TB 30 X2



<b>ants, LLC</b> Suite 500 n 98101	Designed: K. Dahl, P.E., S.E. Drawn: P. Simon	Scale: 3/8" = 1'-0" One Inch at Full Scale	18 <b>Kitsap County Public Works</b> 614 Division Street, MS 26
s.com	Checked: T. Fisher, P.E.	If Not One Inch Scale Accordingly	Port Orchard, WA 98366



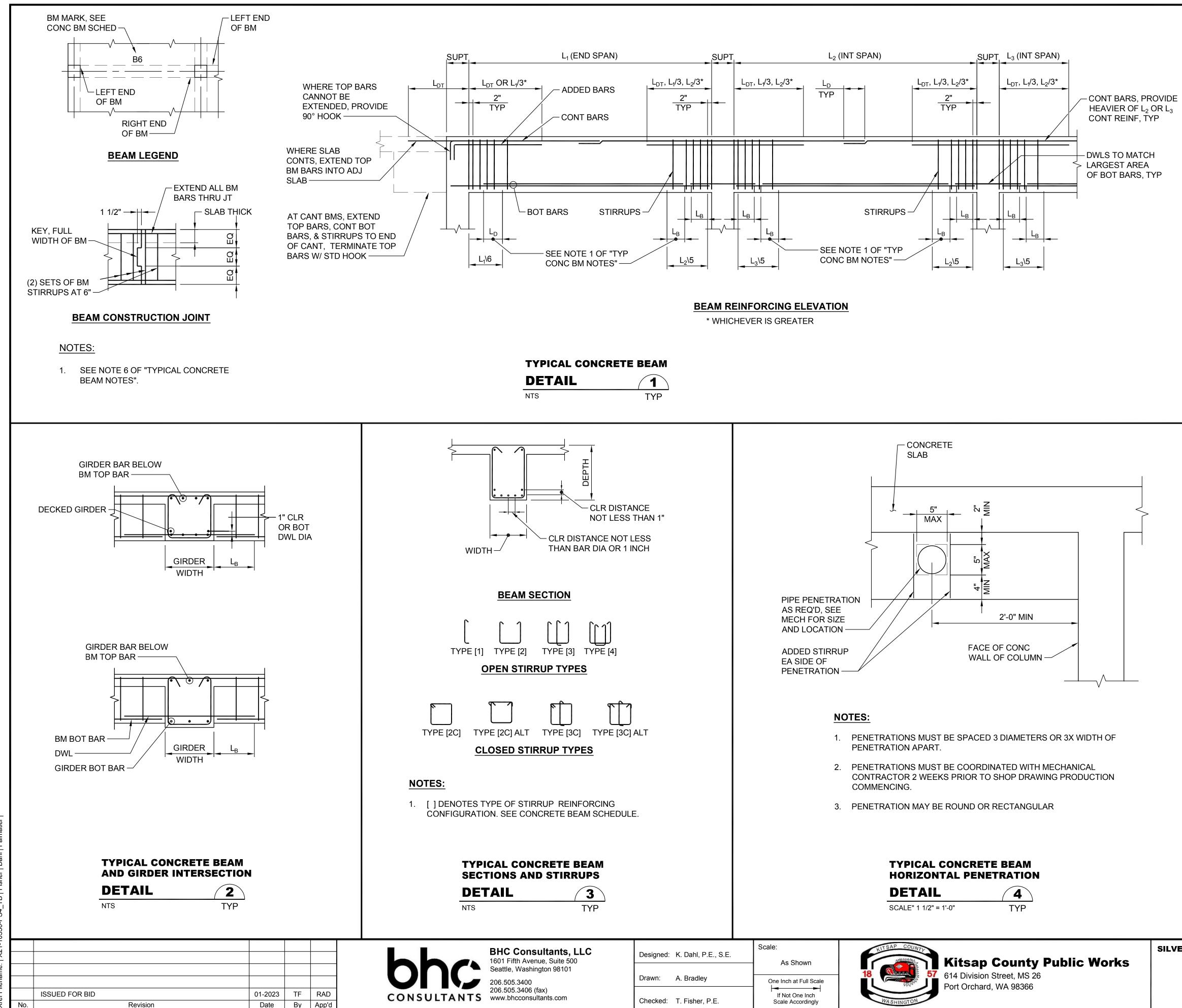




10530 4\_TB|

g X

K EN	ND		TABLE A						
SHED BEND DIAMETER				NIMUM TE R STANDA				-	• •
80° H	IOOKS	90° HOOKS	BAR	1	NORMAL	WEIGHT	CONCRET	E, f'c (PS	I)
	J	Α	SIZE	3,000	4,000	5,000	6,000	7,000	8,000
•	3"	6"	#3	6"	6"	6"	6"	6"	6"
,	4"	8"	#4	8"	7"	7"	7"	7"	7"
,	5"	10"	#5	10"	9"	8"	7"	7"	7"
,	6"	12"	#6	12"	10"	9"	8"	8"	8"
	7"	14"	#7	14"	12"	11"	10"	9"	9"
	8"	16"	#8	16"	14"	12"	11"	10"	10"
	11 3/4"	19"	#9	18"	15"	14"	13"	12"	11"
	13 1/4"	22"	#10	20"	17"	15"	14"	14"	14"
"	14 3/4"	24"	#11	22"	19"	17"	16"	15"	15"
	21 3/4"	31"	#14	37"	32"	29"	27"	25"	31"
"	28 1/2"	41"	#18	50"	43"	39"	35"	33"	35"



1B 30 e X

### **TYPICAL CONCRETE BEAM NOTES:**

- 1. AT CONTRACTOR'S OPTION, WHERE REQUIRED TO RELIEVE BAR CONGESTION, NOT MORE THAN 50 PERCENT OF THE AREA OF THE STRAIGHT BOTTOM BARS MAY BE TERMINATED AS SHOWN UNLESS NOTED OTHERWISE.

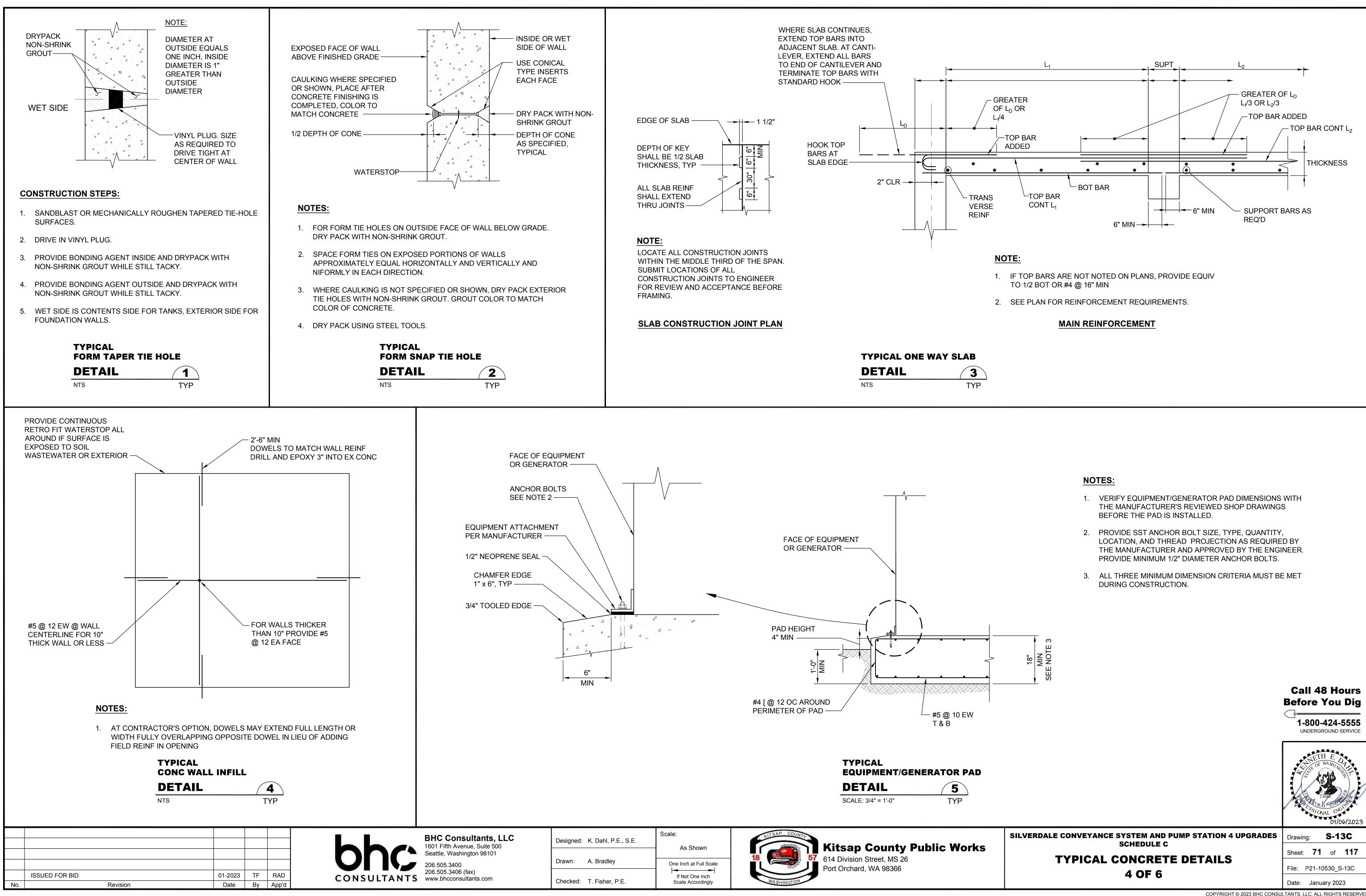
2. PLANS, SECTIONS AND DETAILS DO NOT INDICATE REQUIREMENTS FOR ARRANGING BARS. THE CONTRACTOR SHALL DETAIL AND PLACE REINFORCING STEEL IN A SINGLE LAYER WHENEVER POSSIBLE. A SECOND LAYER MAYBE USED ONLY WHERE REQUIRED TO PROVIDE PROPER CLEARANCE BETWEEN BARS IN A LAYER AND WHERE REQUIRED IN ORDER TO PROPERLY CLEAR COLUMN VERTICALS AND SIMILAR REINFORCING.

- 3. REFER TO "REINFORCING BAR DEVELOPMENT AND SPLICE LENGTH TABLE" FOR  $L_{DT}$ ,  $L_{B}$ , AND  $L_{D}$ .
- 4. EITHER 90 OR 180 DEGREE STANDARD HOOK BARS MAY BE USED FOR LONGITUDINAL BARS.
- 5. WHERE TOP BARS ARE INDICATED AS CONTINUOUS AND RUN OVER 60 FEET IN LENGTH, BARS MAY BE LAPPED L<sub>D</sub> IN THE MIDDLE THIRD OF THE BEAM SPAN UNLESS NOTED OTHERWISE. CONTINUOUS TOP BARS SHALL NOT BE LAPPED IN THE SPAN ADJACENT TO A CANTILEVER, UNLESS NOTED OTHERWISE. WHERE BOTTOM BARS ARE SHOWN AS CONTINUOUS AND RUN IN EXCESS OF 60 FEET, A LAP SPLICE MAY BE USED EQUAL TO LSB AND SHALL BE OUTSIDE THE MIDDLE THIRD OF THE BEAM SPAN. SIDE BAR SPLICES MA BE MADE WHERE CONVENIENT.
- 6. LOCATE ALL CONSTRUCTION JOINTS WITHIN THE MIDDLE THIRD OF SPAN. JOINTS SHALL BE OFFSET AT A MINIMUM DISTANCE OF TWO TIMES THE WIDTH OF INTERSECTING BEAMS. SUBMIT LOCATION OF ALL CONSTRUCTION JOINTS TO ENGINEER FOR REVIEW AND ACCEPTANCE BEFORE FORMING.
- 7. STANDARD HOOKS FOR STIRRUPS MAY BE 135 DEGREES BEND PLUS 6 BAR DIAMETER EXTENSION, BUT NOT LESS THAN 3 INCHES.
- 8. ALL BARS IN SAME LAYER UNLESS NOTED OTHERWISE.
- 9. SEE PLANS, SECTIONS, AND DETAILS FOR BAR SIZES AND LAYOUT.

					5555 SERVICE
			THE OF VILLAND	E. LASHING	7711 5 5 5 6 6 7 2023
LVERD	ALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C	Drawing	g:	S-1	2C
	TYPICAL CONCRETE DETAILS	Sheet:	70	of	117
		File: P2	1-1053	30-PS	4_S-12C
	3 OF 6	Date:	Janua	iry 202	23

Call 48 Hours

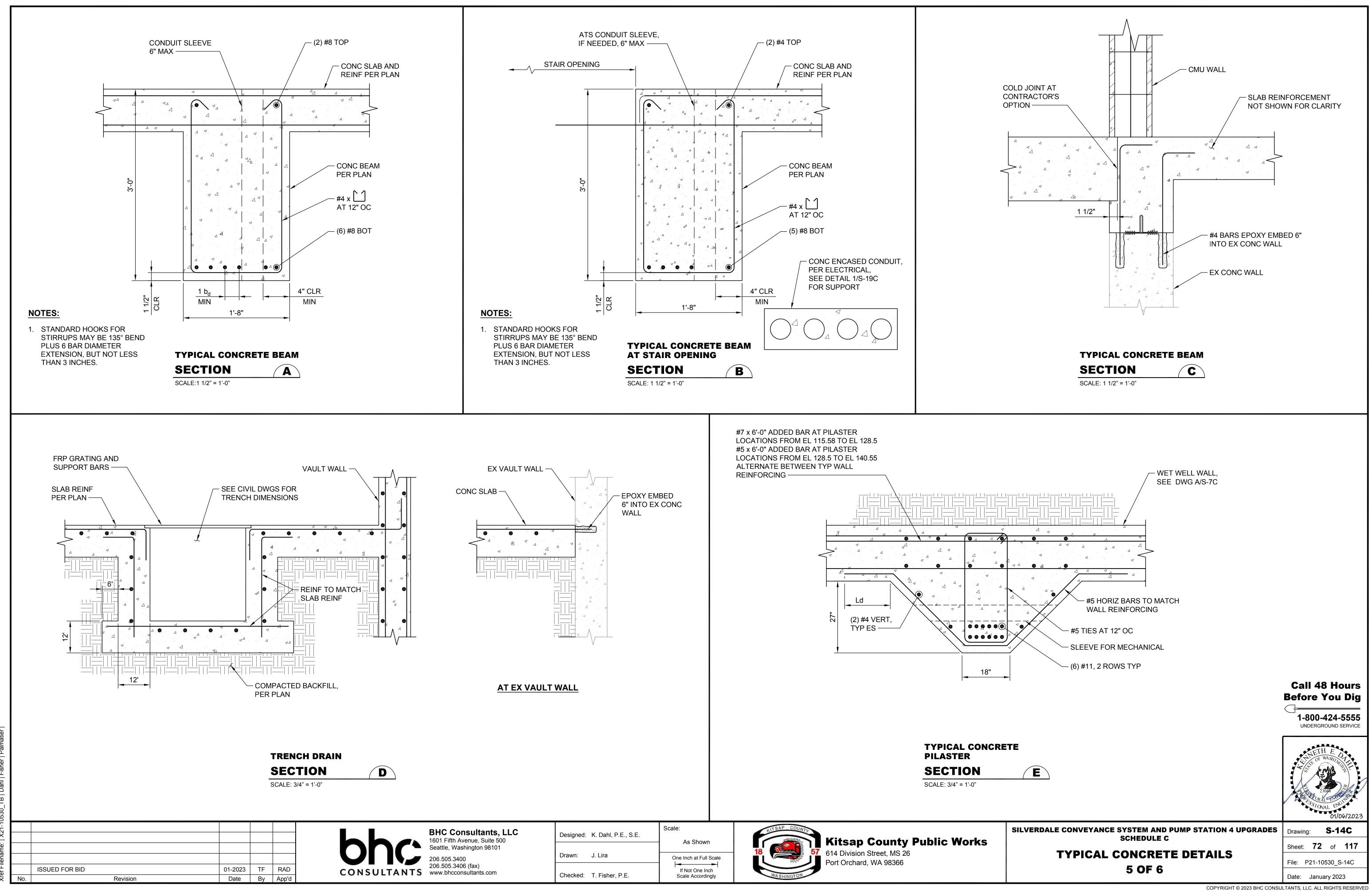
**Before You Dig** 



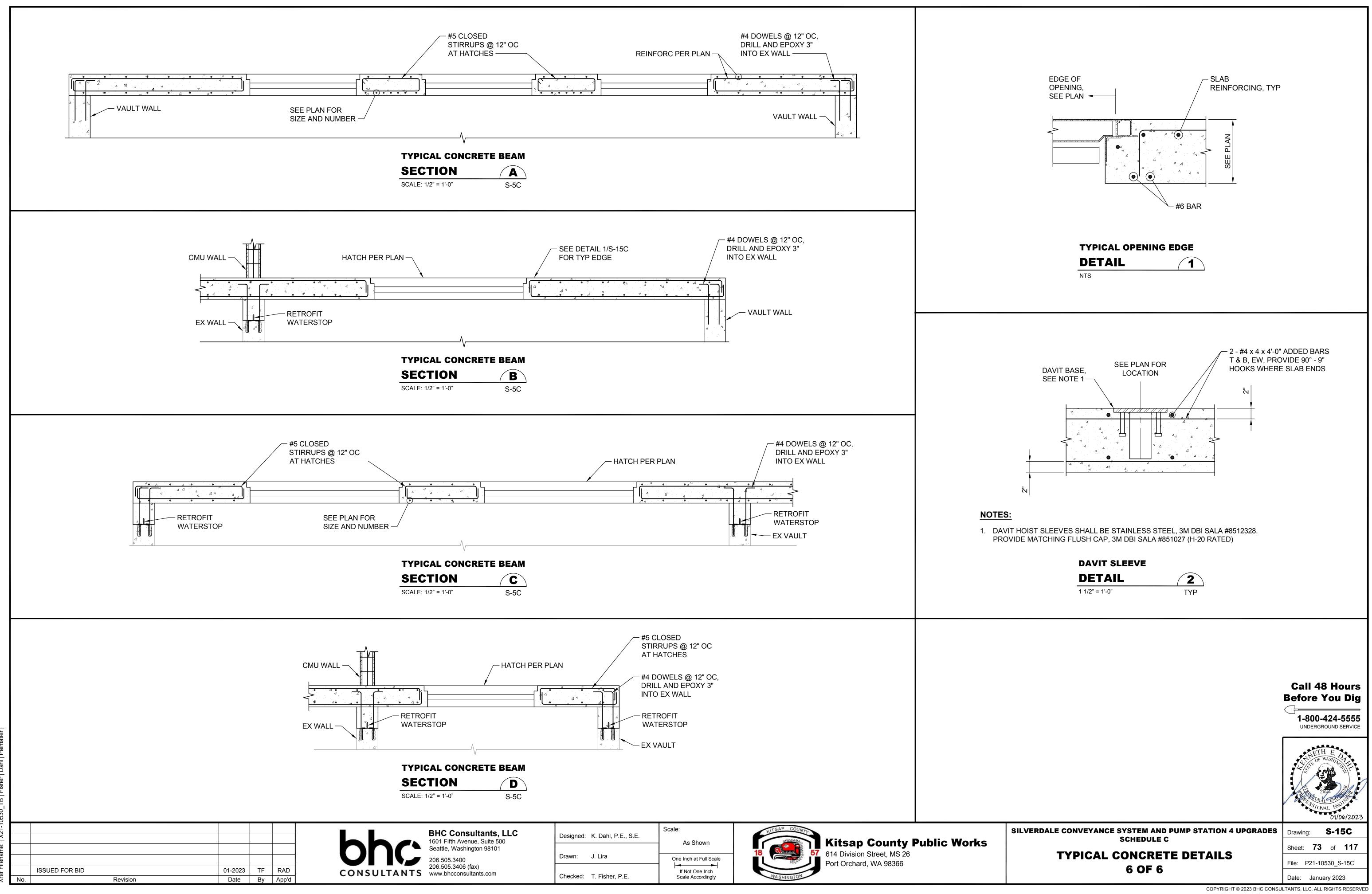
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<b>unts, LLC</b> Guite 500 98101	Designed: K. Dahl, P.E., S.E.	Scale: As Shown	Kitsap County Public Works	SII
	Drawn: A. Bradley	One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366	
s.com	Checked: T. Fisher, P.E.	If Not One Inch Scale Accordingly	WASHINGTON POIL OFCHAID, WASSOO	

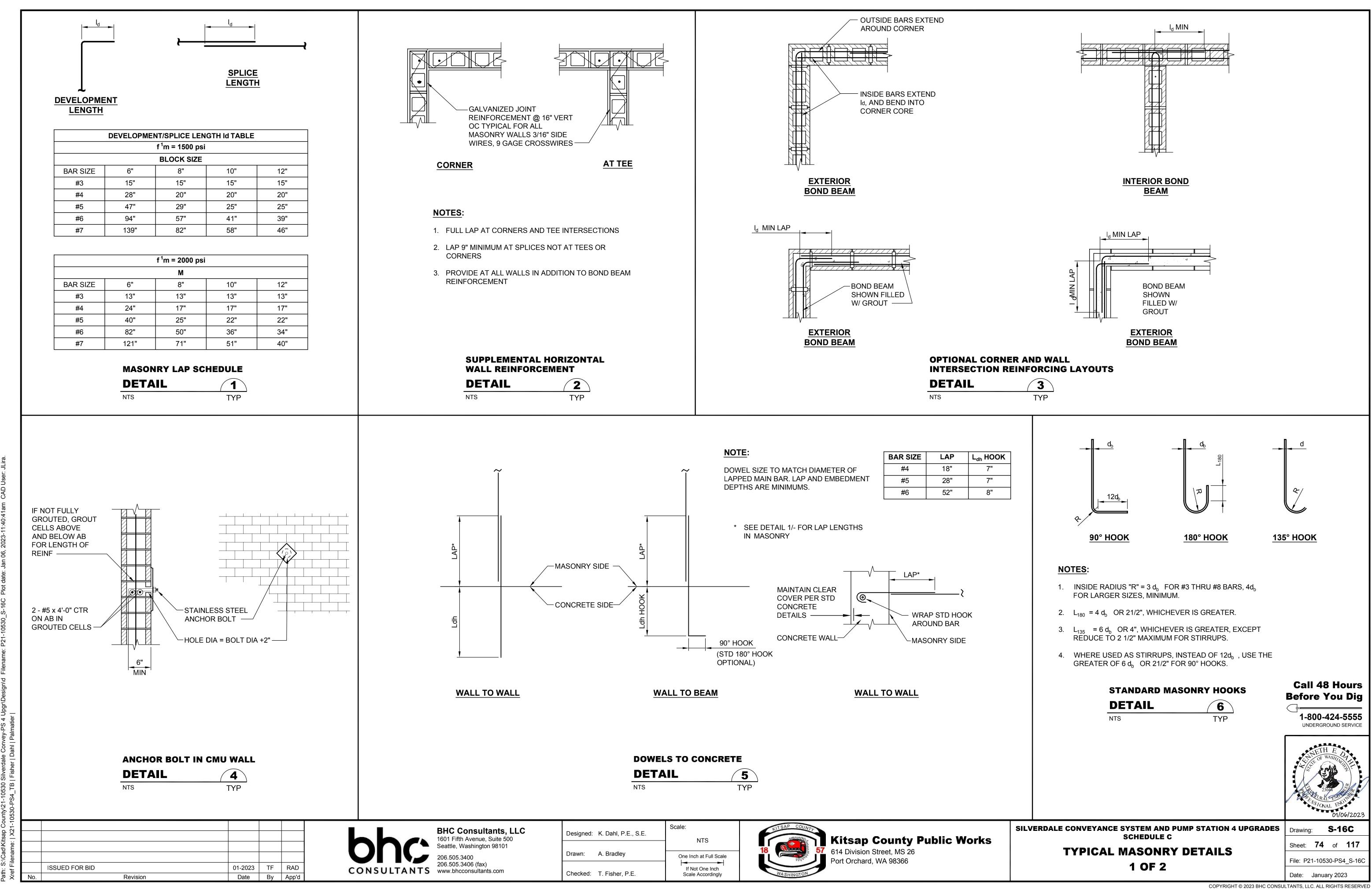
18" MIN SEE NOTE 3	
	Call 48 Hours Before You Dig
	1-800-424-5555 UNDERGROUND SERVICE
	THETHE DOF WASHINGTON THE OF WASHINGTON 23044 THE STONAL ENGINE 01/06/2023
ILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C	Drawing: S-13C
TYPICAL CONCRETE DETAILS	Sheet: <b>71</b> of <b>117</b>
4 OF 6	File: P21-10530_S-13C



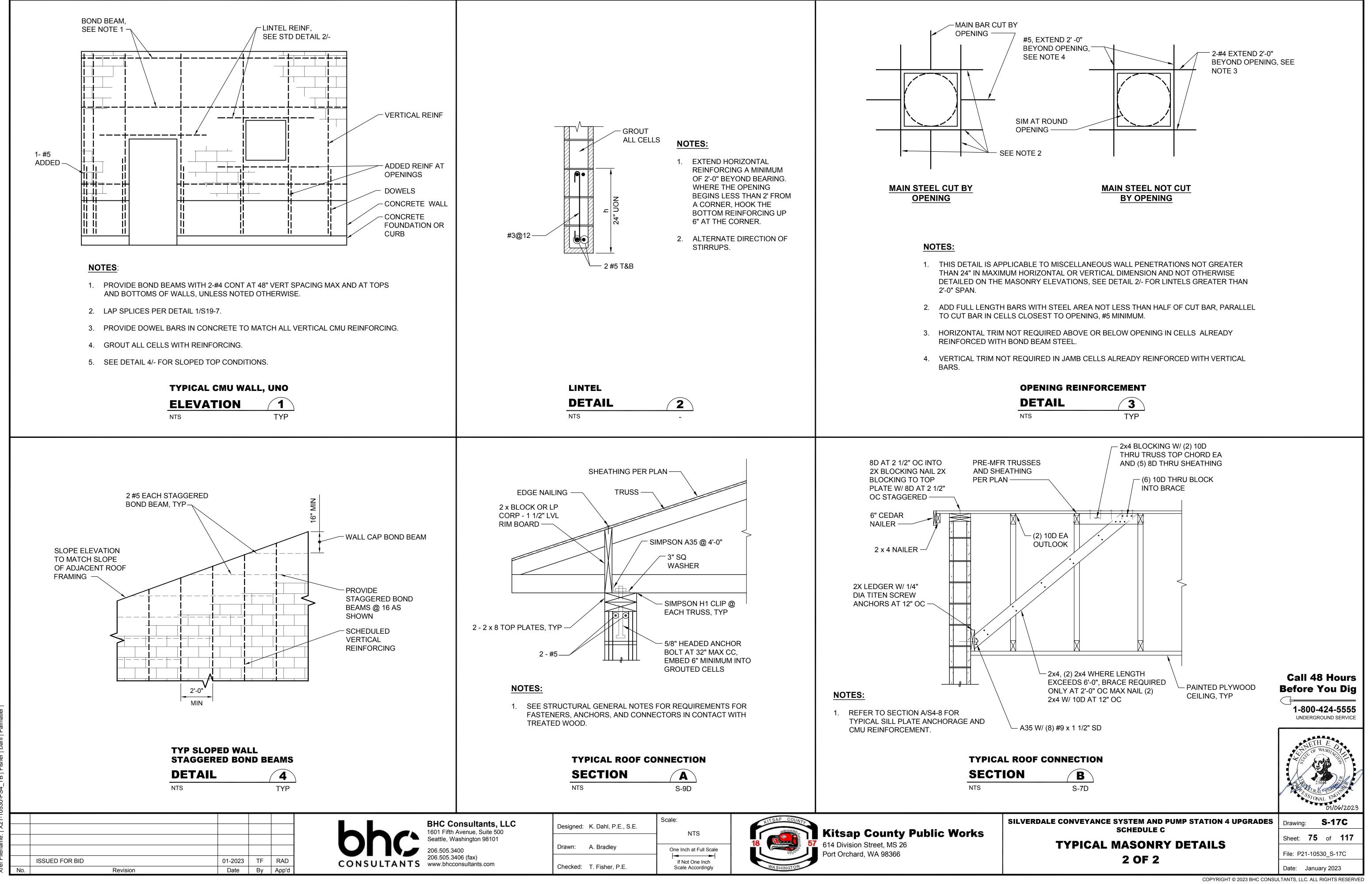
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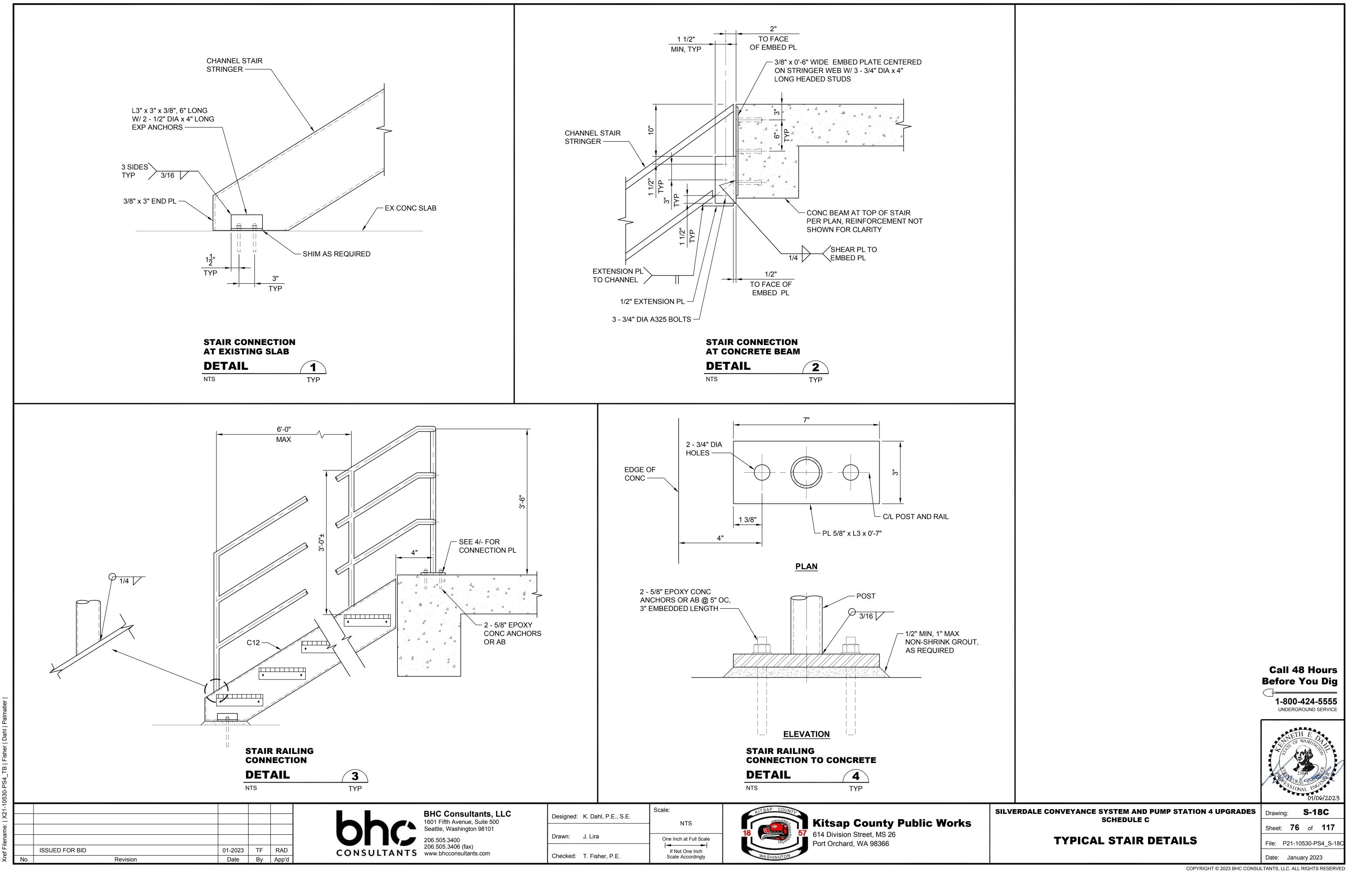
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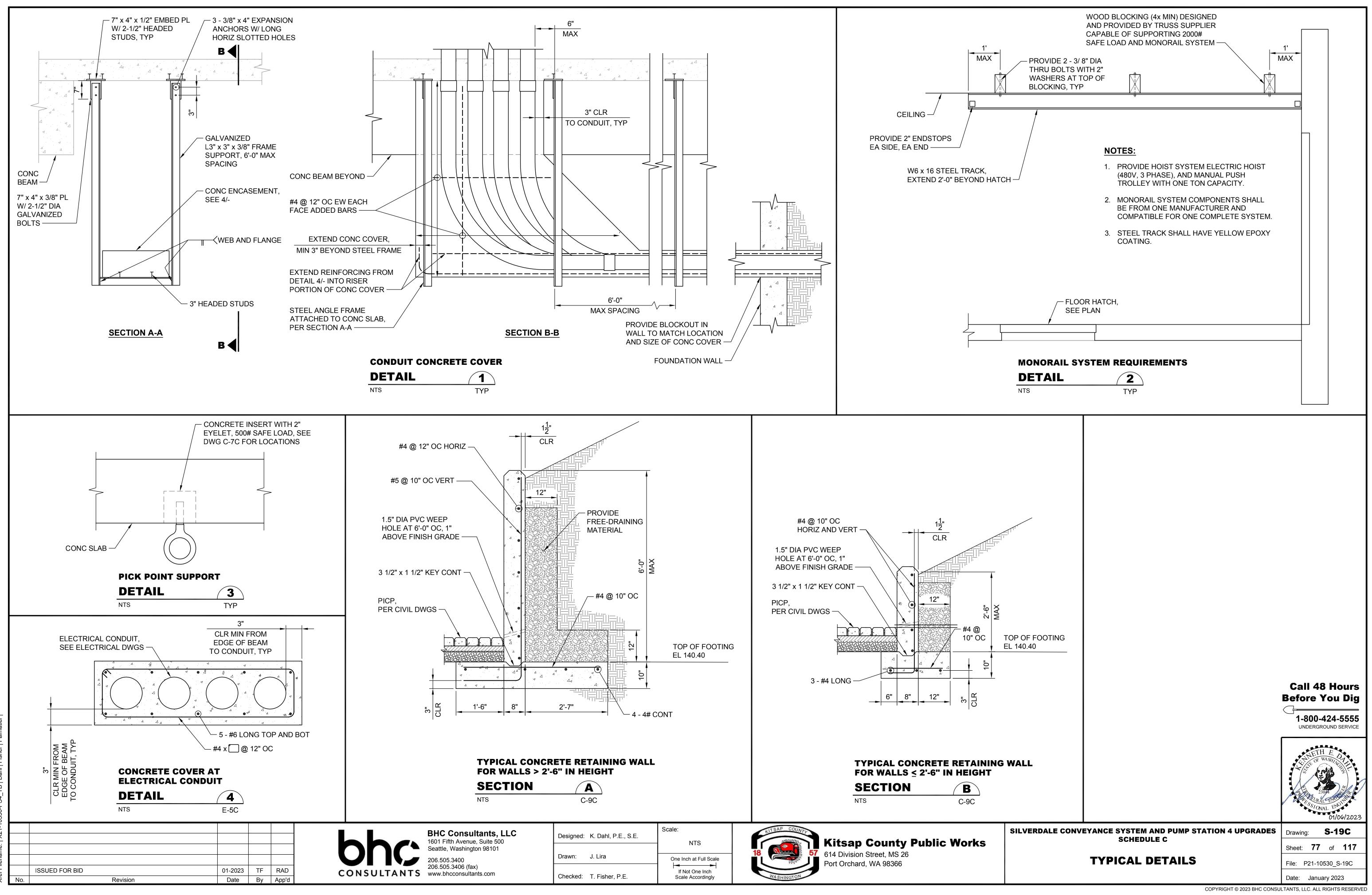
Suite 500	Designed: K. Dahl, P.E., S.E.	Scale: NTS	Kitsap County Public Works
n 98101	Drawn: A. Bradley	One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366
ts.com	Checked: T. Fisher, P.E.	If Not One Inch Scale Accordingly	WASHINGTON



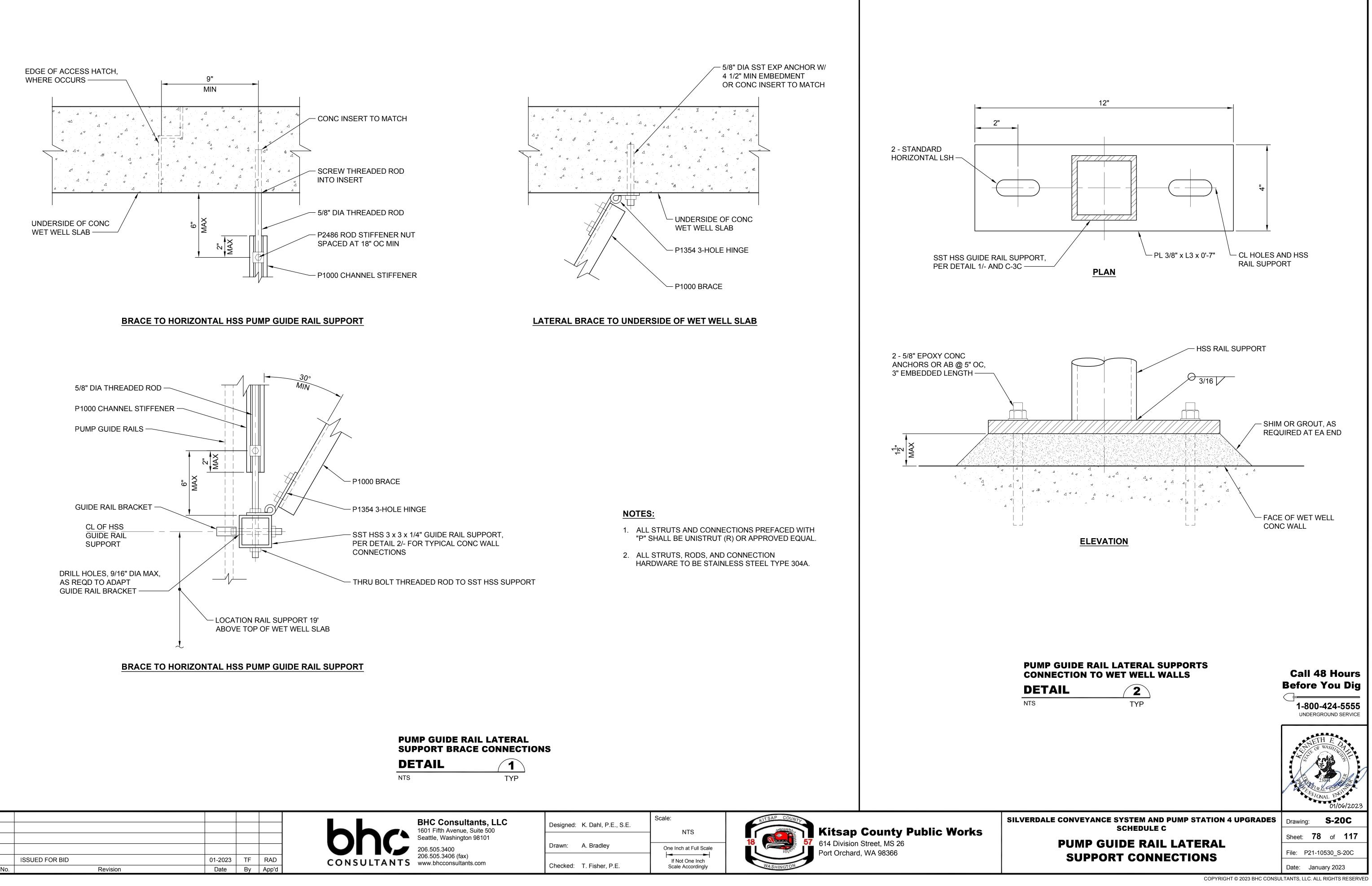
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tants, LLC Suite 500	Designed: K. Dahl, P.E., S.E.	Scale: NTS	Kitsap County Pu
on 98101	Drawn: A. Bradley	One Inch at Full Scale	18 57 614 Division Street, MS 26 Port Orchard, WA 98366
) its.com	Checked: T. Fisher, P.E.	If Not One Inch Scale Accordingly	WA SHINGTON

### GENERAL ARREVIATIONS

GENE	ERAL ABBREVIATIONS
BTUH	BRITISH THERMAL UNITS PER HOUR
(E)	EXISTING
F FEV FOR FOS FV	FUEL OIL RETURN
HP HZ	HORSE POWER; HEAT PUMP HERTZ
IBC IFC IMC IN	INTERNATIONAL BUILDING CODE INTERNATIONAL FIRE CODE INTERNATIONAL MECHANICAL CODE INCH
KW	KILOWATT
LBS	POUNDS
MCA MECH MOCP	,
N NTS	NORTH NOT TO SCALE
PH	PHASE
QTY	QUANTITY
REFER	REFRIGERANT
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
V	VOLT
W W/	WIDE(DIM); WATT WITH

AL L
RTH
)
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<b>.</b>

					<b>DNC</b>	fei
					CONSULTANTS	<b>LOI</b> L'ENGINEERS
					BHC Consultants, LLC         206.505.3400           1601 Fifth Avenue, Suite 500         206.505.3406 (fax)	Seattle // Spokane // Baltimore
No.	Revision	Date	By	App'd	1601 Fifth Avenue, Suite 500206.505.3406 (fax)Seattle, Washington 98101www.bhcconsultants.com	Baramore

### LEGEND

HVAC LEGEND	)
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THERMOSTAT

TIMER SWITCH

EQUIPMENT TAG

**AIRFLOW SWITCH** 

WALL SWITCH

 $\bigcirc$ 

 $\bigcirc$ 

AHU 1

FS

 $(\!\!W\!)$ 

G	N	C	R	
U	N		R/	

3. MECHANICAL DRAWINGS SHOW DISCONNECT AND RECONNECT POINTS AT THE PROJECT'S BOUNDARIES. AN ATTEMPT WAS MADE TO SHOW MAJOR MECHANICAL UTILITY WORK WITHIN THE PROJECT'S BOUNDARIES.

SECTION REFERENCE

DETAIL/DRAWING REFERENCE

NORTH ARROW

DETAIL REFERENCE

CONSTRUCTION NOTE

**REVISION SYMBOL** 

POINT OF CONNECTION

BOLD LINE WEIGHT INDICATES NEW WORK

BOLD DASHED LINE WEIGHT INDICATES NEW WORK BELOW SLAB

LIGHT LINE WEIGHT INDICATES EXISTING WORK

fsi	
ENGINEERS	
110 11	

Designed: ELL Drawn: KH Checked: JOJ

As Shown One Inch At Full Scale If Not One Inch Scale Accordingly

Scale:



**Kitsap County Public Works** 614 Division Street, MS 26 Port Orchard, WA 98366

- AGENCY.

### RAL CONSTRUCTION NOTES

1. PLANS ARE DIAGRAMMATIC AND DO NOT SHOW ALL SPECIALTIES AND EQUIPMENT.

2. FIELD VERIFY EXACT LOCATIONS OF EQUIPMENT PRIOR TO COMMENCING WORK.

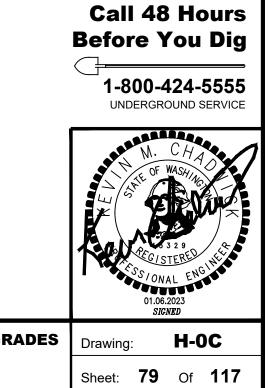
### WASHINGTON ENERGY CODE NOTES

1. PROVIDE POST CONSTRUCTION COMMISSIONING AND COMPLETION REQUIREMENTS IN ACCORDANCE WITH THE WASHINGTON STATE ENERGY CODE 2018 EDITION, SECTION C408 AND ACCORDING TO THE CONTRACT DOCUMENTS. SEE SPECIFICATION SECTIONS 23 05 00, 23 08 00 AND ALL OTHER APPLICABLE SPECIFICATION SECTIONS.

2. BALANCE ALL HVAC SYSTEMS IN ACCORDANCE WITH THE WASHINGTON STATE ENERGY CODE 2018 EDITION, GENERALLY ACCEPTED ENGINEERING STANDARDS AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. SEE SPECIFICATION SECTION 23 05 93 AND ALL OTHER APPLICABLE SPECIFICATION SECTIONS.

3. PROVIDE CONTROLS IN ACCORDANCE WITH THE WASHINGTON STATE ENERGY CODE 2018 EDITION, INCLUDING SECTION FOR HVAC CONTROL, C403.2.5 FOR VENTILATION, C403.2.6 FOR ENERGY RECOVERY AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, SEE TEMPERATURE CONTROL SPECIFICATION SECTIONS AND ALL OTHER APPLICABLE SPECIFICATION SECTIONS.

4. ALL MECHANICAL EQUIPMENT SHALL BE LISTED AND APPROVED BY A TESTING



File: P21-10530-PS4\_H-0C

Date: January 2023

SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C **CONTROL BUILDING** 

# HVAC LEGEND, ABBREVIATIONS AND GENERAL NOTES

	SPLIT SYSTEM UNIT SCHEDULE																		
CAL	LOUT				RATE	דווארו ר		COOLING [3]		HEATING								BASIS O	F DESIGN
				UNIT	EFFICIE		NOMINAL CAPACITY	TOTAL COOLING	SENSIBLE COOLING	CAPACITY @ OUTDOOR 17°F	REFER	OPERATING		E	LECTRICA	AL			
TYPE	MARK	LOCATION	AREA SERVED	CONFIGURATION	SEER	EER	(TONS) [4]	(BTUH)	(MBH)	(MBH)	TYPE	WEIGHT (LBS)	V	HZ	Ø	MOCP	MCA	MANUFACTURER	MODEL
HP	1	INSIDE	ELECTRICAL ROOM	CEILING MOUNT	21.0	11.6	2.5	42,000	33.2	20.9	R410A	56	208/230	60	1	-	2	MITSUBISHI	PLA-A42
CU	1	OUTSIDE		PAD MOUNT	21.0	11.0	3.5	42,000	33.2	30.8	R410A	214	208/230	60	1	31	25	MITSUBISHI	PUZ-A42

### SCHEDULE NOTES:

[1] AIR REMOTE - INDOOR DX UNIT PIPED TO AIR-COOLED REMOTE DC CONDENSER OUTSIDE.

[2] MINIMUM EFFICIENCY AS SCHEDULED AND AS REQUIRED BY THE WASHINGTON STATE NON-RESIDENTIAL ENERGY CODE.

[3] AT 85F OUTDOOR AIR DRYBULB TEMPERATURE. [4] NOMINAL TONNAGE INCLUDED FOR REFERENCE ONLY - DO NOT USE FOR FINAL SIZING OF EQUIPMENT.

[5] ECONOMIZER EXCEPTION 11 PER 2018 WSEC.

	EXHAUST FAN SCHEDULE															
CALL	OUT			FAN								MAX	BASIS OF DESIGN			
					DRIVE	E.S.P (IN WC)						SOUND LEVEL				
TYPE	MARK	LOCATION	SERVICE	CFM	TYPE	[1]	RPM	HP	ENCLOSURE	TYP	V	Ø	(DBA)	MANUFACTURER	MODEL	NOTES
EF	1	UPPER LEVEL	DRY WELL	975	DIRECT	0.375	1725	3/4	ODP	EC	115	1	45	GREENHECK	SQ-130-VG	[3]
EF	2	RESTROOM	RESTROOM	100	DIRECT	0.25	932	15(W)	-	ECM	115	1	43	GREENHECK	SP-100-VG	[3] [4]

SCHEDULE NOTES:

[1] STATIC PRESSURE EXTERNAL TO FAN.

[2] SINGLE POINT CONNECTION. UNIT PROVIDED WITH INTEGRAL DISCONNECT.

[3] PROVIDE HANGING NEOPRENE VIBRATION ISOLATION, INSULATED HOUSING, PERMATECTOR FINISH, AND BACKDRAFT DAMPER. [4] PROVIDE WITH MOTION SENSOR WALL SWITCH.

	SUPPLY FAN SCHEDULE															
CALL	.OUT				FAN								MAX	BASIS OF DE	SIGN	
					DRIVE	E.S.P (IN WC)		MOTOR ELECTRICAL [2]			SOUND LEVEL					
TYPE	MARK	LOCATION	SERVICE	CFM	TYPE	[1]	RPM	HP	ENCLOSURE	TYP	V	Ø	(DBA)	MANUFACTURER	MODEL	NOTES
SF	1	UPPER LEVEL	DRY WELL	1100	DIRECT	0.25	1500	3/4	ODP	EC	115	1	46	GREENHECK	SQ-140-VG	[3]

SCHEDULE NOTES:

[1] STATIC PRESSURE EXTERNAL TO FAN.

[2] SINGLE POINT CONNECTION. UNIT PROVIDED WITH INTEGRAL DISCONNECT. [3] PROVIDE HANGING NEOPRENE VIBRATION ISOLATION, INSULATED HOUSING AND PERMATECTOR FINISH, AND BACKDRAFT DAMPER.

	UNIT HEATER SCHEDULE												
CAL	LOUT			FAN			ELECT	RICAL	BASIS C	OF DESIGN			
TYPE	MARK	LOCATION	SERVICE	AIRFLOW (CFM)	CAPACITY (KW)	STAGES	V	Ø	MANUFACTURER	MODEL	NOTES		
UH	1	MID LEVEL	DRY WELL	725	10	1	480	3	KING	KB SERIES	[1] [2] [3]		
UH	2	RESTROOM	RESTROOM	75	.5	1	120	1	KING	PAW SERIES	[3] [4]		

SCHEDULE NOTES:

[1] PROVIDE WITH WALL MOUNTING BRACKET

[2] PROVIDE WITH INTEGRAL DISCONNECT SWITCH

[3] PROVIDE WITH WALL THERMOSTAT AND LOW VOLTAGE CONTROL KIT.

[4] PROVIDE WITH STAINLESS STEEL COVER.

		AIRFLOW C LIMITS (		NOMIN	NOMINAL SIZE NECK DIMENSIONS					MAX TSP				BASIS OF DE	ESIGN
							FOR RECTANGULAR			DROP					
CALLOUT	AIR TERMINAL DESCRIPTION	MAXIMUM	MINIMUM	LENGTH	WIDTH	DIAMETER	LENGTH	WIDTH	MAX NC	(IN. W.G.)	MATERIAL	OPD	FINISH	MANUFACTURER	MODE
EG-1	EGGCRATE RETURN GRILLE	1200	801	24"	18"		18"	18"	10	0.02	ALUMINUM BORDER AND CORE	NO	#26 WHITE	TITUS	50F
SG-1	DUCT MOUNTED GRILLE	360	0	12"	8"		6"	10"	20	0.07	ALUMINUM	YES	#26 WHITE	TITUS	272FL

SCHEDULE NOTES:

[1] PROVIDE DUCT MOUNTING.

05				_			
1-1							
X2						bbc	
ne:							
enar						CONSULTANTS	
ef Filer						1601 Fifth Avenue, Suite 500 206.505.	.505.3400 Seattle // 3406 (fax) Baltimore
Xre	No.	Revision	Date	Ву	App'd	Seattle, Washington 98101 www.bhcconsul	

nty PS 3 30-PS4 <sup>-</sup>

AIR TERMINAL	SCHEDULE
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Designed: ELL Drawn: KH Checked: JOJ

Scale: As Shown One Inch At Full Scale . If Not One Inch Scale Accordingly



**Kitsap County Public Works** 614 Division Street, MS 26 Port Orchard, WA 98366

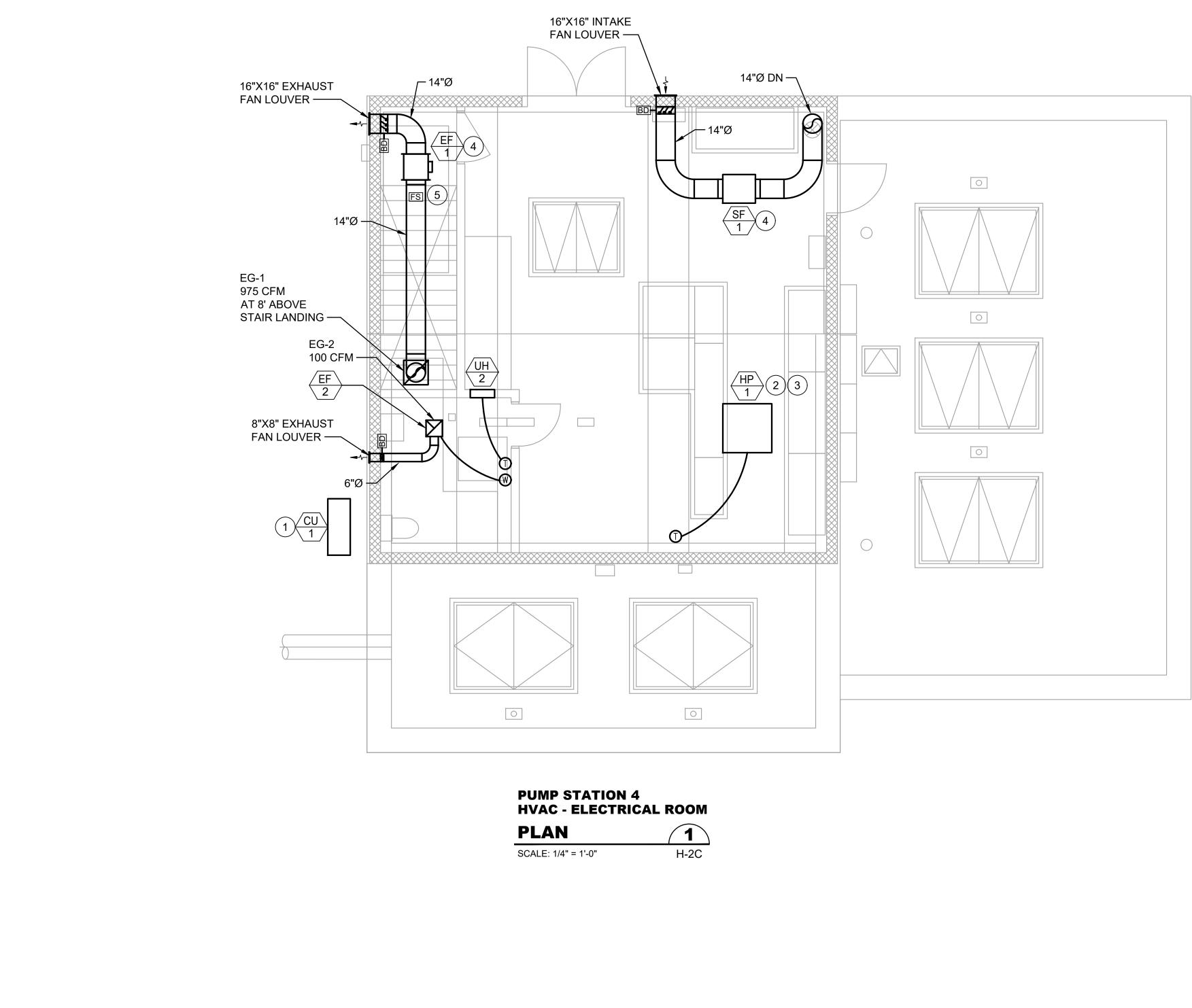
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NOTES
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DEL DF 2FL	NOTES [1] [1]		Before \ 	B Hours You Dig 424-5555
				CH WASHING 3 2 9 STERED VAL ENGINE
ILVERD		TEM AND PUMP STATION 4 UPGRADES	Drawing:	H-1C
		HEDULE C L BUILDING	Sheet: <b>80</b>	Of <b>117</b>
		LES AND DETAILS	File: P21-105	530-PS4_H-1C
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Date: January 2023



					hhr:	C
					CONSULTANTS	
					BHC Consultants, LLC         206.505.3400           1601 Fifth Avenue, Suite 500         206.505.3406 (fax)	Seattle Baltimor
No.	Revision	Date	By	App'd	Seattle, Washington 98101 www.bhcconsultants.com	Baramor

CAD Us 30-PS4 kitsap County PS 3 and 4 Upgrades\Working Drawings\P Filename: P21-10530-PS4\_H-2C Plot date: Jan 06, 2023-07:52:57a | X21-10530-PS4\_TB-Sub.dwg | X21-10530-PS4\_Ex Bldg | X21-10530-PS4\_Prop Bldg | X21-10530-PS4\_Prop Mech | X21-10



Designed: ELL KH Drawn: Checked: JOJ

1/4" = 1'-0" One Inch At Full Scale If Not One Inch Scale Accordingly

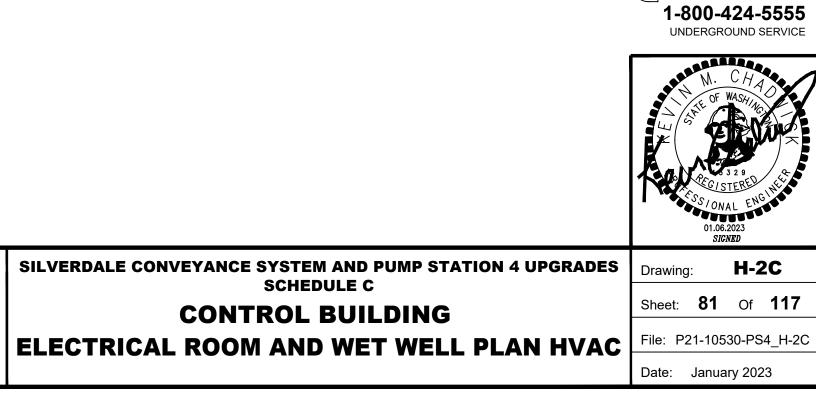
Scale:



**Kitsap County Public Works** 614 Division Street, MS 26 Port Orchard, WA 98366

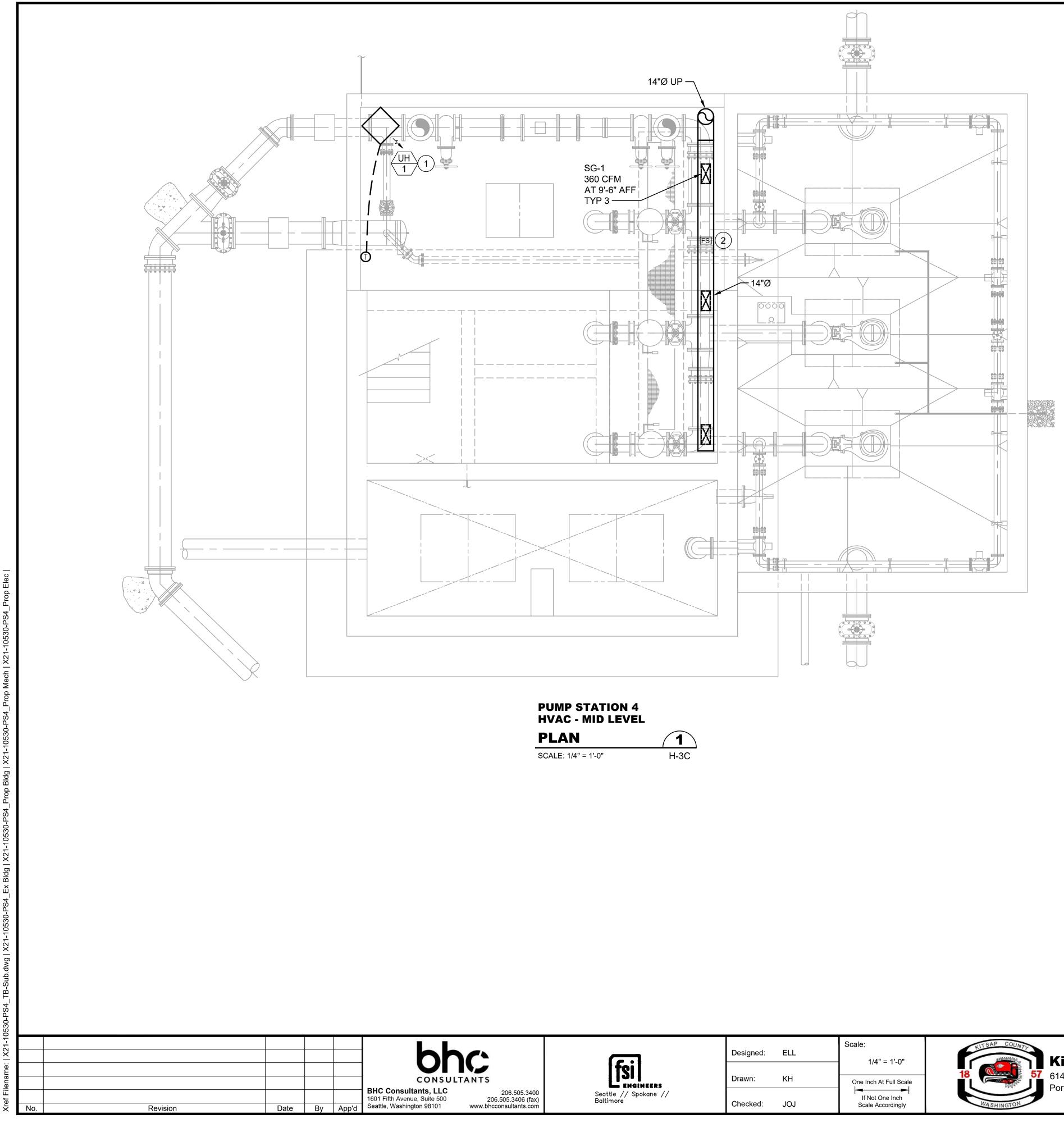
### **CONSTRUCTION NOTES:**

- 1 MOUNT OUTDOOR UNIT ON EQUIPMENT PAD. REFER TO ARCHITECTURAL PLAN FOR EQUIPMENT PAD.
- (2) MOUNT UNIT MINIMUM OF 82" AFF.
- 3 ROUTE RS/RL TO CONDENSING UNIT. PROVIDE CONDENSATE PIPING AND ROUTE TO OUTSIDE. PIPE SIZE PER MANUFACTURER.
- (4) RUN FAN CONTINUOUSLY.
- 5 INSTALL AIRFLOW SWITCH ON HORIZONTAL RUN OF DUCT PER MANUFACTURE'S RECOMMENDATION. REFER TO ELECTRICAL FOR WIRING ALARM SIGNAL.



Call 48 Hours

**Before You Dig** 



CAD 80-PS County PS 3 and 4 Upgrades\Working Drawings\P Filename: P21-10530-PS4\_H-3C Plot date: Jan 06, 2023-07:53:03a -10530-PS4\_TB-Sub.dwg | X21-10530-PS4\_Ex Bldg | X21-10530-PS4\_Prop Bldg | X21-10530-PS4\_Prop Mech | X21-10 Kitsap s: | X21 Path: Xref

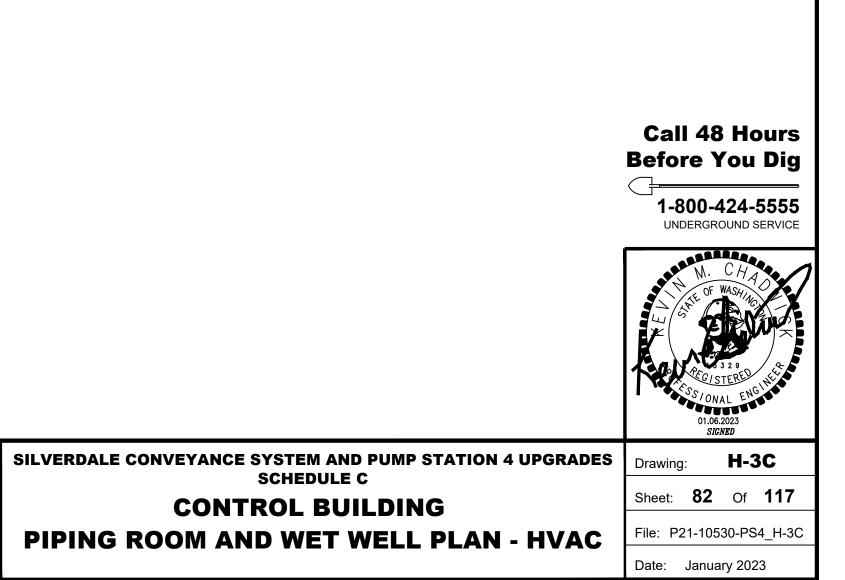
**Kitsap County Public Works** 614 Division Street, MS 26 Port Orchard, WA 98366

### **CONSTRUCTION NOTES:**



1 MOUNT UNIT AT 8' AFF.

(2) INSTALL AIRFLOW SWITCH ON HORIZONTAL RUN OF DUCT PER MANUFACTURER'S RECOMMENDATION. REFER TO ELECTRICAL FOR WIRING ALARM SIGNAL.



## PLUMBING LEGEND

		PLU
	DOMESTIC COLD WATER (CW)	СО
	SOIL, WASTE (S,W)	CW
	VENT (V)	DOM
	PIPING IDENTIFIER, SEE ABBREVIATIONS	FCO FD
ə	ELBOW DOWN	GPM
o	ELBOW UP	HB
*	TEE	IPC
÷ ;	TEE DN	NC
	TEE UP	PRV PSE
→	REDUCER	RPBA
i∳ i	NORMALLY CLOSED BALL VALVE	UPC
iφi;	NORMALLY OPEN BALL VALVE	V

					hh		
					CONSUL	TANTS	
					BHC Consultants, LLC 1601 Fifth Avenue, Suite 500	206.505.3400 206.505.3406 (fax) www.bhcconsultants.com	Seat Balti
No.	Revision	Date	By	App'd	Seattle, Washington 98101	www.bhcconsultants.com	Durt

### **PLUMBING ABBREVIATIONS**

CLEAN OUT COLD WATER

DOMESTIC

FLOOR CLEAN OUT FLOOR DRAIN

GALLONS PER MINUTE

HOSE BIBB

INTERNATIONAL PLUMBING CODE

NORMALLY CLOSED

PRESSURE REDUCING VALVE PUGET SOUND ENERGY

REDUCED PRESSURE BACKFLOW ASSEMBLY

UNIFORM PLUMBING CODE

VENT

W

WASTE

### **PLUMBING GENERAL NOTES**

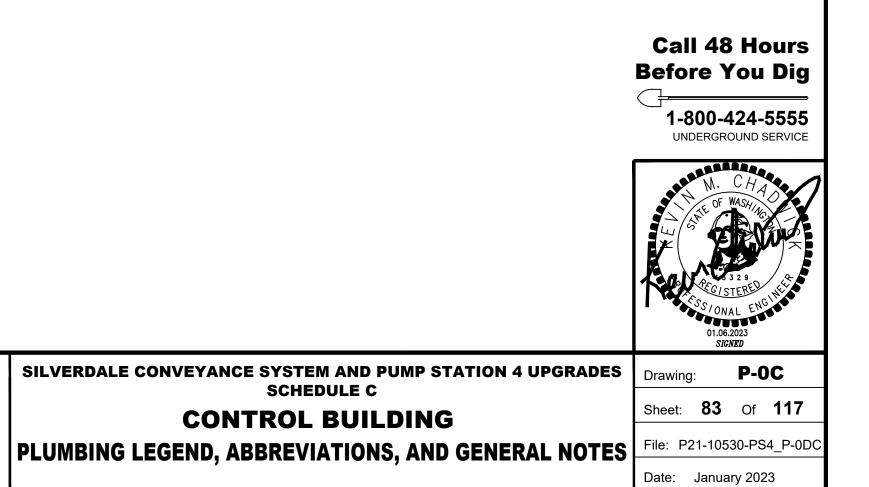
- 1. PROVIDE COMPLETE SUPPORTS, SEISMIC AND RESTRAINTS FOR ALL PIPES AND EQUIPMENT PER SPECIFICATIONS, AS REQUIRED, AND AS SHOWN ON THE DRAWINGS.
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATION AND ELEVATION.
- 3. PIPING PENETRATION THROUGH FIRE RATED WALLS OR FLOORS SHALL BE SLEEVED AND FIRE STOPPED WITH LISTED MATERIALS TO MAINTAIN RATING OF FLOOR OR WALL. INSULATED PIPING SHALL BE CONTINUOUSLY INSULATED THROUGH FLOOR OR WALL.
- 4. INSTALLATION SHALL BE COORDINATED WITH BUILDING STRUCTURE AND OTHER TRADES PRIOR FABRICATION AND INSTALLATION.
- 5. PROVIDE ISOLATION VALVE AT BRANCH SERVING 5 FIXTURES OR MORE.
- 6. ALL DOMESTIC HOT WATER PIPING TO FIXTURES SHALL BE DONE IN ACCORDANCE WITH 2018 WSEC INCLUDING SECTION C404.3.
- 7. ALL PIPING SERVING PLUMBING SYSTEMS SHALL BE INSULATED IN ACCORDANCE WITH 2018 WSEC TABLE C403.10.3



Designed: ELL Drawn: KH Checked: JOJ

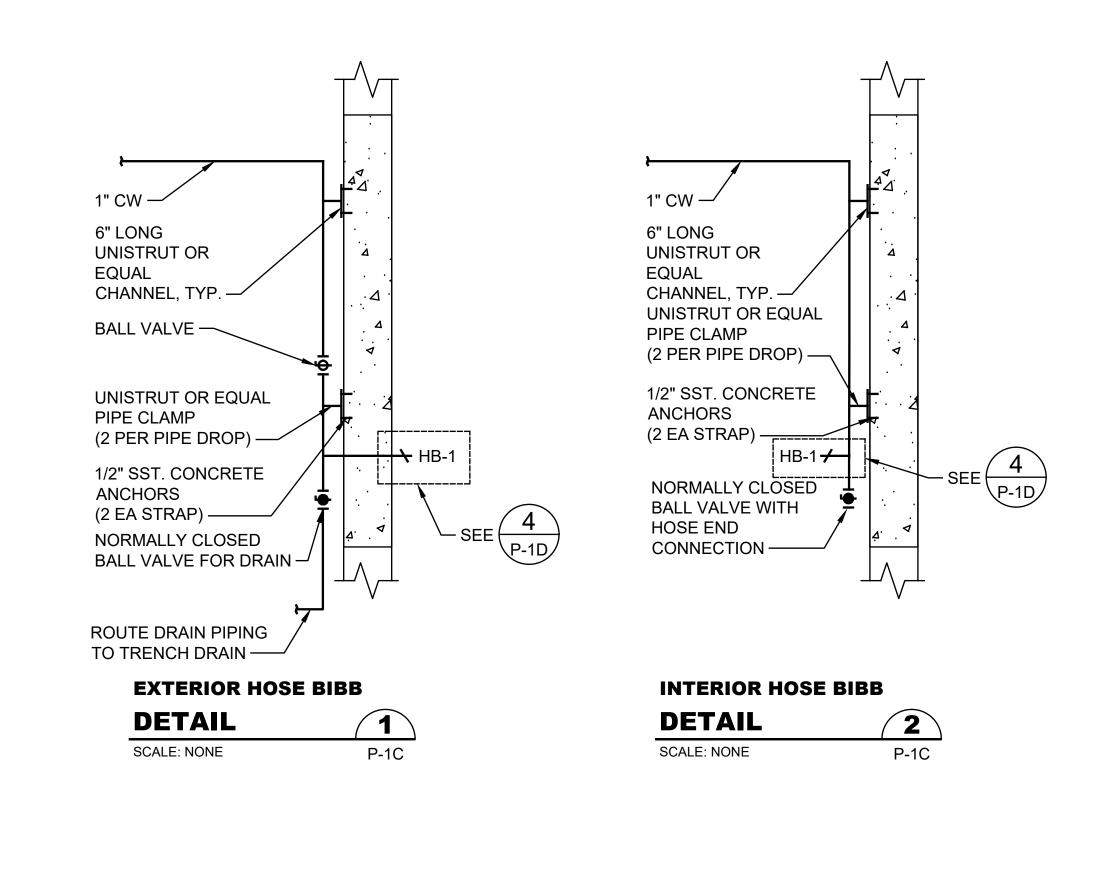


**Kitsap County Public Works** 614 Division Street, MS 26 Port Orchard, WA 98366



						PLUMBING FIXTURE SCHEDU	LE		
		BRANCH PIPE SIZE - INCHES DIA.					BASIS OF	DESIGN	
MARK	FIXTURE DESCRIPTION	COLD WATER	HOT WATER	WASTE	VENT	ADDITIONAL COMPONENTS	MANUFACTURER	MODEL	REMARKS
LAV-1	WALL-HUNG LAVATORY	1/2"	-	1 1/2"	1 1/4"	CARRIER: JAY R. SMITH FIG 0720 CHICAGO #420-ABCP W/ POP-UP DRAIN	KOHLER	#K-2005	ADA WITH PROTECTIVE SHIELD AND MIXING VALVE COMPLIANCE WITH A
WC-1	FLOOR-MOUNTED WATER CLOSET	1"	-	4"	2"	SEAT: OLSONITE #95	KOHLER	#K-3575	ADA, OBC, B651 COMPLIANT.
HR-1	WALL MOUNTED HOSE RACK	-	-	-	-	HEAVY DUTY HOOK. 5.5" WIDE X 5' HIGH X 4 1/8" DEEP	MASTER-CARR	2614N11	
TP-1	TRAP PRIMER	1/2"	-	-	-	ELECTRONIC TRAP PRIMER, 120V/60	PPP	MPB-500	COORDINATE WITH ELECTRICIAN FO
FD-1	FLOOR DRAIN					ROUND NICKEL-BRONZE STRAINER, NO-HUB OUTLET AND TRAP PRIMER CONNECTION	JAY R. SMITH	2005Y	

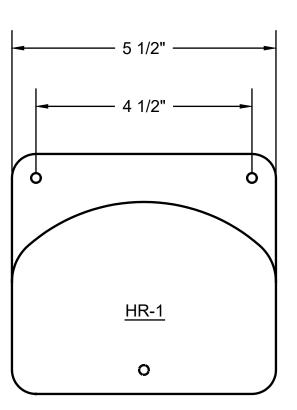
	WATER HEATER SCHEDULE													
CALLOUT				SERVICE CONDITIONS CAPACITY					ELEC	RICAL		BASIS OF DESIGN		
TYPE	MARK	LOCATION	DEMAND (GPM)	EWT (DEG F)	LWT (DEG F)	WATER TEMP RISE (DEG F)	INPUT KW	NO. OF STEPS	V	HZ	Ø	FLA	MANUFACTURER	MODEL
TANKLESS	WH-1	RESTROOM	.3	50	119	79	3.6	1	120	60	1	30	BOSCH	TRONIC 3000-US3-2R

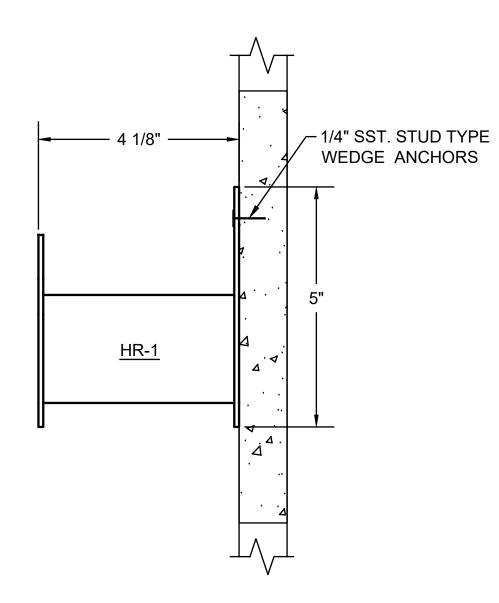


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ilename						CONSULTANTS	
ш						BHC Consultants, LLC         206.505.3400           1601 Fifth Avenue, Suite 500         206.505.3406 (fax)	Seattle /,
Xref	No.	Revision	Date	By	App'd	Seattle, Washington 98101 www.bhcconsultants.com	Baltimore

1" CW ——

UNISTRUT OR EQUAL PIPE CLAMP (2 REQ'D) UNION (TYP) -

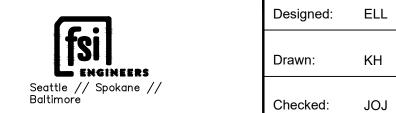




45 ELBOW —

STL NIPPLE WITH MALE CAMLOCK FITTING —

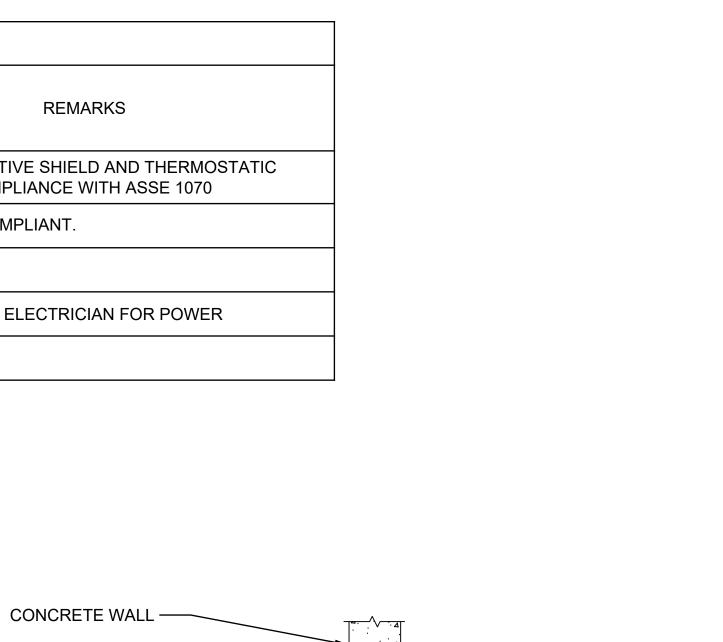
**HOSE RACK** DETAIL 3 SCALE: NONE P-1C

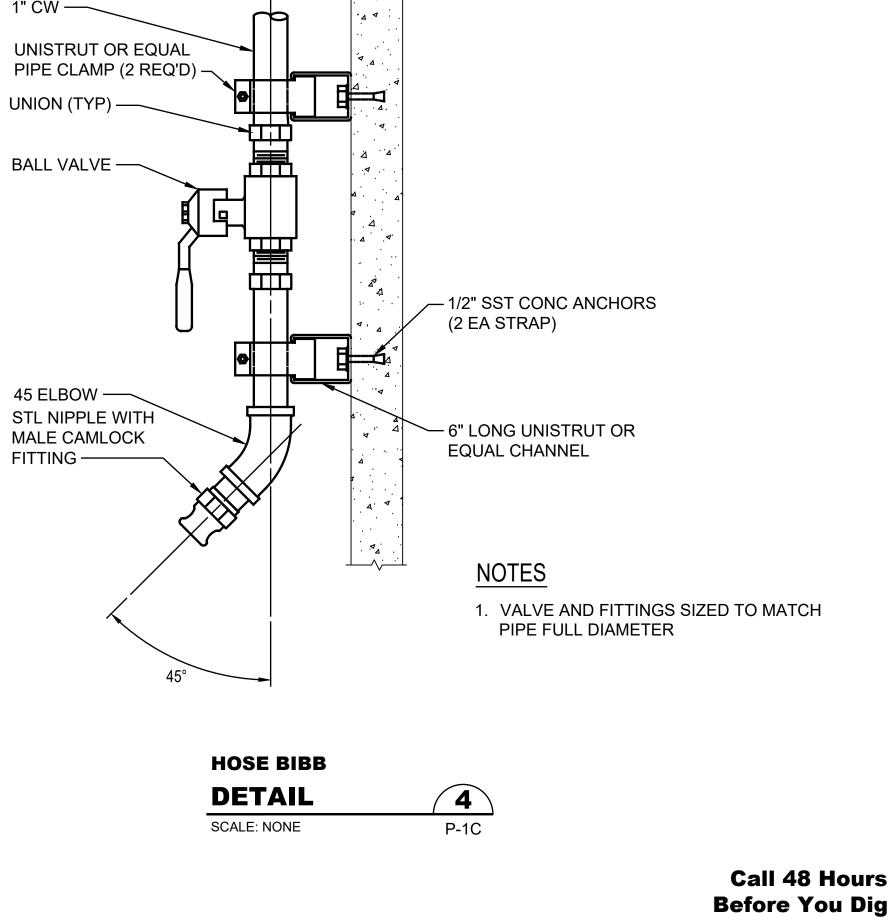


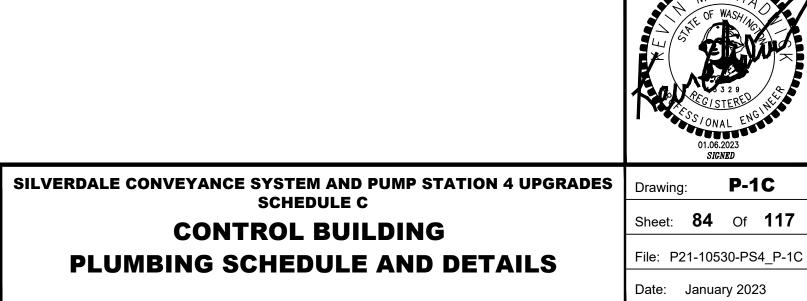
Scale: As Shown One Inch At Full Scale If Not One Inch Scale Accordingly



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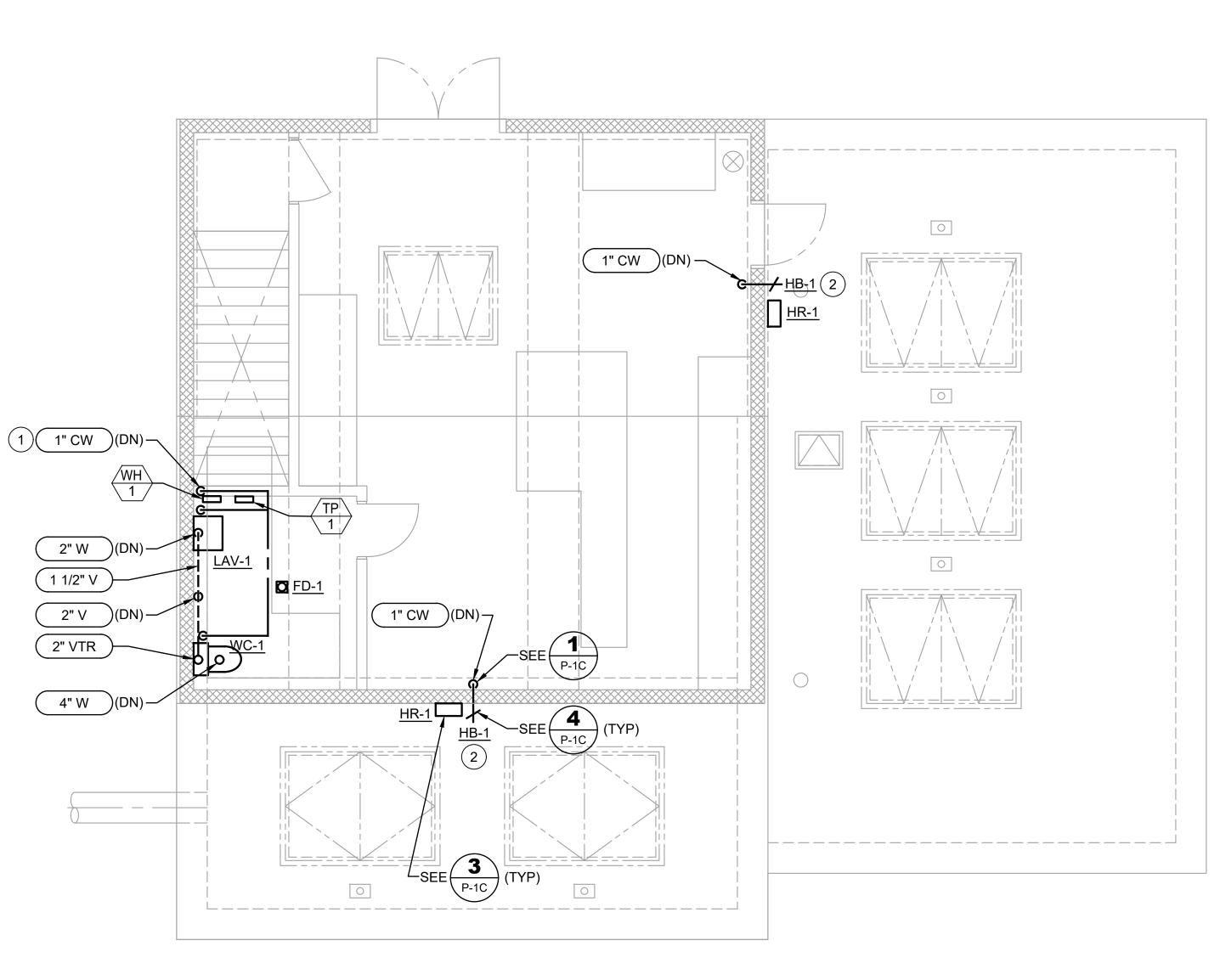


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**1-800-424-5555** UNDERGROUND SERVICE



					hhr	6
					CONSULTANTS	
					BHC Consultants, LLC         206.505.3400           1601 Fifth Avenue, Suite 500         206.505.3406 (fax)	Seattle Baltimo
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PUMP STATION PLUMBING - ELE	-
PLAN	
SCALE: 1/4" = 1'-0"	P-2C



Designed: ELL KH Drawn: Checked: JOJ

1/4" = 1'-0" One Inch At Full Scale If Not One Inch Scale Accordingly

Scale:



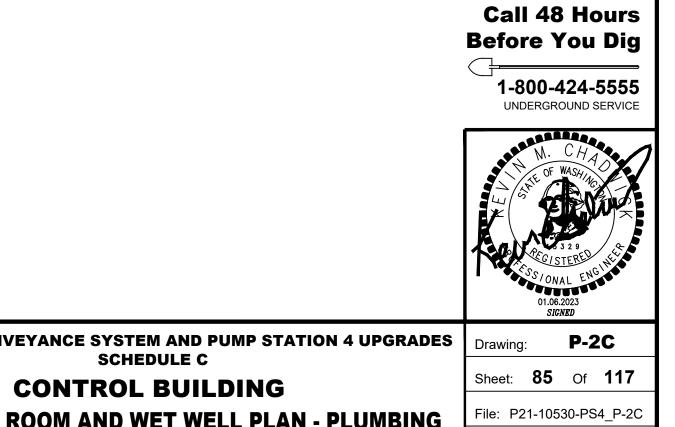
**Kitsap County Public Works** 614 Division Street, MS 26 Port Orchard, WA 98366

### NOTES:

- 1. ALL BOLTED CONNECTIONS IN THE WET WELL SHALL BE CONSTRUCTED WITH DOUBLE 316L SST NUTS.
- 2. ALL BELL AND SPIGOT, MECHANICAL, AND PLAIN END JOINTS SHALL BE RESTRAINED.
- 3. COORDINATE HATCH LOCATION WITH PUMP MANUFACTURER AND GUIDE RAILS TO AVOID CONFLICTS. ALL ACCESS HATCHES SHALL HAVE A SAFETY GRATE BY HATCH MANUFACTURER UNLESS NOTED OTHERWISE. SAFETY GRATE SWING SHALL BE THE SAME AS THE HATCH DOOR.
- 4. WATER PIPING SHALL NOT BE ROUTED DIRECTLY ABOVE ELECTRICAL EQUIPMENT

CONSTRUCTION NOTES:

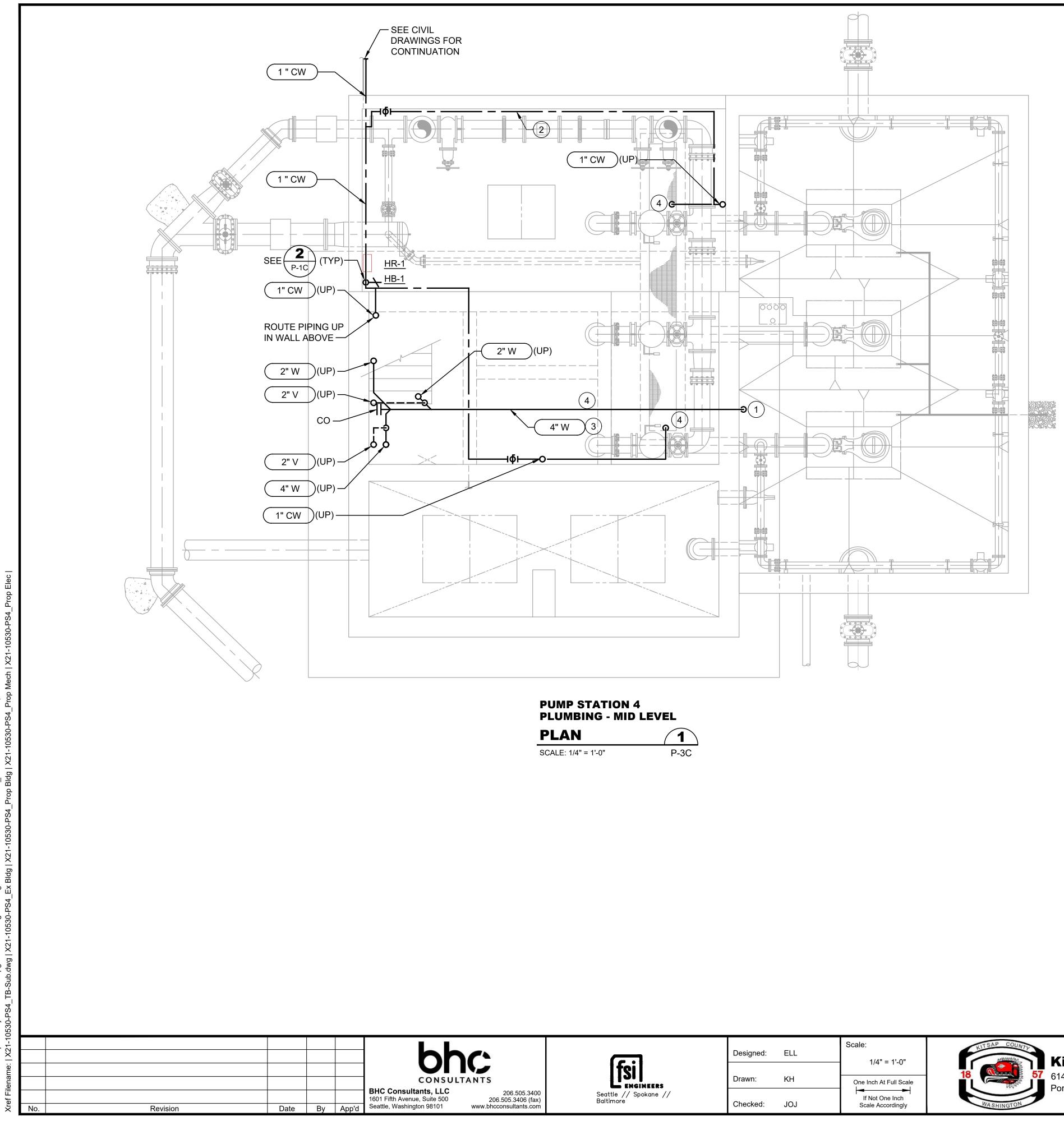
- (1) ROUTE PIPING INSIDE WALL AND ABOVE CEILING
- (2) MOUNT HB-1 3'-0" ABOVE GROUND.



SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C

ELECTRICAL ROOM AND WET WELL PLAN - PLUMBING

Date: January 2023



County 1 -10530-1 וייאס X21 ו

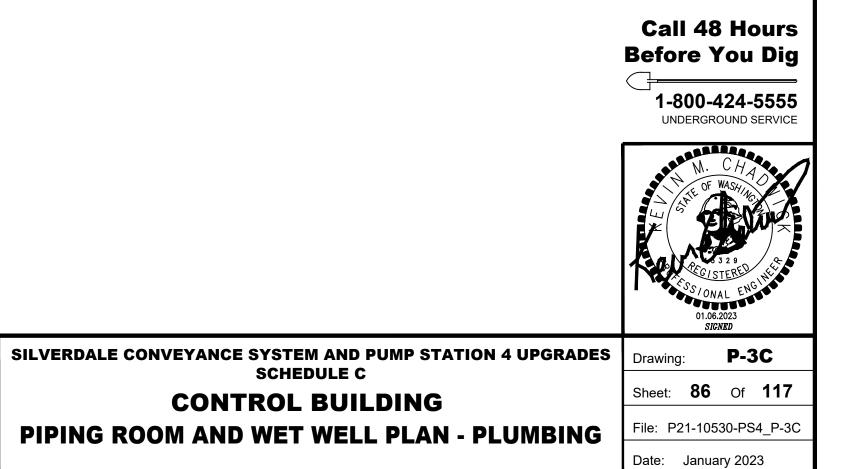
**Kitsap County Public Works** 614 Division Street, MS 26 Port Orchard, WA 98366

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CONSTRUCTION NOTES:

- 1 TERMINATE PIPE 12" BELOW ELBOW AND PROVIDE 4" DUCKBILL TYPE CHECK VALVE.
- 2 INSTALL PIPE 1'-0" BELOW CEILING. SLEEVE PIPE THROUGH BEAM.
- 3 INSTALL WASTE PIPING FROM BEAMS IN CEILING OF PIPE ROOM WHILE MAINTAINING 2% SLOPE.
- (4) ROUTE DRAIN PIPING TO TRENCH



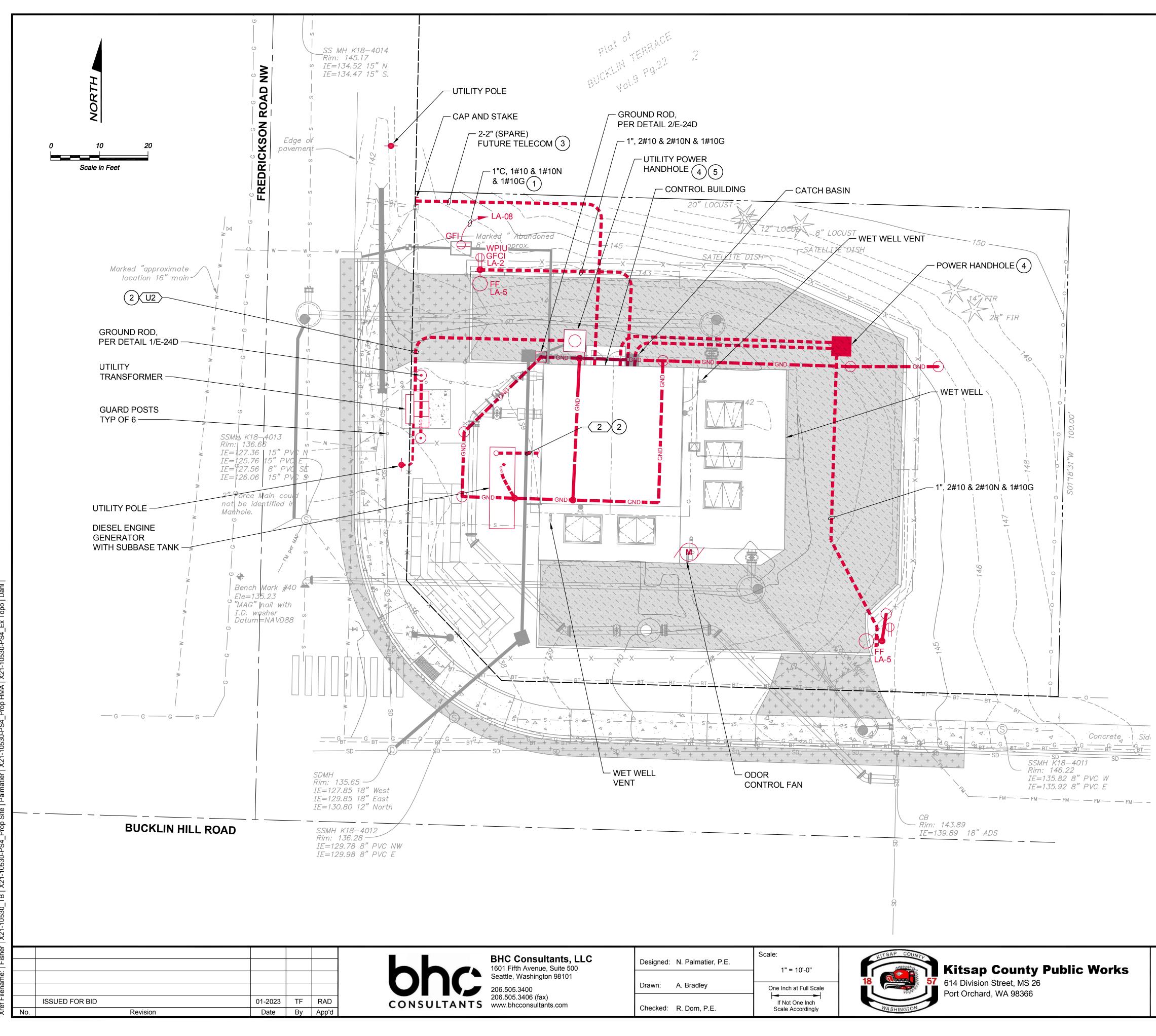
	RS AND POWER EQUIPMENT				
$\odot$	GROUND ROD IN GROUND ROD BOX	SA	- SURGE AF	RRESTER	
Т	TRANSFORMER	<i>\</i>	DISCONNECT OR SWITCH		
$\square$	MOTOR STARTER W/ DISCONNECT		TRANSFO	RMER	
		(° 15/1 o		MAGNETIC CIRCUIT BREAKER, O. POLES MO = MAGNETIC ONLY	
	DISCONNECT SWITCH, NON FUSED (60A) INDICATES AMPERAGE RATING	$\sim$	THERMAL	OVERLOAD RELAY	
F	DISCONNECT SWITCH, FUSED 100=SWITCH RATING, 80=FUSE RATING	$\mathbf{r}$		OMATIC TRANSFER SWITCH NUAL TRANSFER SWITCH	
$\square$	UTILITY METERING		POWER C	APACITOR WITH KVAR RATING	
M	MOTOR	VFD	VSD = VAF	RIABLE FREQUENCY DRIVE RIABLE SPEED DRIVE LID STATE STARTER	
(F)	EXHAUST FAN	•	GROUND 1		
	PANELBOARD, SWITCHBOARD, MCC	(15)	MOTOR - N HORSEPO	NUMBER "15" INDICATES WER	
<b>1</b> 50A	FUSE WITH AMPERE RATING		MS OR M =	= MOTOR STARTER CONTACTOR	
$\ge$	PACKAGED POWER AND CONTROL PANEL	мs 	C = CONTA	ACTOR, BP = BYPASS CONTACTOR ATION CONTACTOR	
M	UTILITY METERING	C <u>3</u>		TRANSFORMER , NUMBER "3"	
₿	GROUND		INDICATES	S NUMBER OF CTS	
SPD	SURGE PROTECTIVE DEVICE		PULL OUT CONNECT	SWITCH/PLUG-RECEPTACLE	
ELEME	ENTARY WIRING DIAGRAM SY	MBOLS			
N.O. Normai Open	LLY NORMALLY			HOA = HAND/OFF/AUTO SWITCH HOR = HAND/OFF/REMOTE SWITCH OCA = OPEN/CLOSE/AUTO SWITCH	
sw 🔨	SWITCH		À.	RO = RUN/OFF INDICATING LIGHT R=RED, G=GREEN,	
PB 	РВ СТ. PUSH BUTTON		$\bigcap_{i=1}^{\infty}$	A=AMBER, B=BLUE, W=WHITE	
NO 		(	CR	CONTROL RELAY / CONTACTOR	
FS	FS FLOW SWITCH	(	TDR	TIME DELAY RELAY	
			8	TWISTED SHIELDED PAIR (TSP)	
PS K			sv D Sv	SOLENOID VALVE	
ז≈ אָר	TS TEMPERATURE SWITCH		RTM	RTM = RUN TIME METER, AMP = AMP METER, CNT = COUNTER HMI = OPERATOR CONTROL INTERFACE	
ZS			$\bigcirc$	(VFD OPERATOR & DISPLAY) SPEED POT	
FT	INSTRUMENT - FS = FLOW SWITCH, FT = FLOW XMTR, PS= PRESSURE SWITCH,	I	ы  ∭ <u>–</u> +	BATTERY	
	PT = PRESSURE XMTR, ZS = LIMIT SWITCH, VS = VIBRATION SWITCH, VT = VIBRATION XMTR, MS = MOISTURE SWITCH,		لكل ©	HORN BLOWN FUSE INDICATOR	
	FE = FLOW ELEMENT, LE = LEVEL ELEMENT TE = TEMP ELEMENT	,	OT1	INDICATING LIGHT:	
ß	INSTRUMENT - LS = LEVEL SWITCH, TS = TEMPERATURE SWITCH,		GIL	A = AMBER  G = GREEN  W = WHITE B = BLUE  R = RED	
	HEATER - HEAT TRACE			<u>SELECTOR SWITCH:</u> FOR = FORWARD/OFF/REVERSE HOR = HAND/OFF/REMOTE	
К	KIRK KEY INTERLOCK		HOA	HOA = HAND/OFF/AUTO RO = RUN/OFF POT = POTENTIOMETER HIGH/OFF/LOW	
				BHC Consu	
				1601 Fifth Avenu Seattle, Washing	
				206.505.3400	

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	Revision	Date	By	App'd

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ef ::

RACEWA	Y SYMBOLS	LIGHTING	& RECEPTACLE SYMBOLS	ABBRE	VIATIONS			
	CONDUIT RUN 3/4"C, UNLESS OTHER WISE SHOWN	LIGHTING FIX	(TURES	A, AMP		M	METER, MOTOR	
A-4	4-#12 FOR POWER CIRCUITS TO PANEL "A" CKT "4"	0	LIGHTING FIXTURE	AC	AIR COMPRESSOR, ALTERNATING CURRENT	MCC MCP	MOTOR CONTROL CE	
C-XX	TAGGED CONDUIT RUN - SEE CONDUIT & WIRE SCHEDULE FOR DETAILS.		STRIP LIGHTING FIXTURE	AF AFF	AMPERE FRAME ABOVE FINISHED FLOOR	MFGR MH	MANUFACTURER MANHOLE	
	P=POWER, C=CONTROL, S=SIGNAL			AI AIC	ANALOG INPUT POINT (PLC) AMPERES INTERRUPTING CAPACITY	MO MOV	MAGNETIC ONLY (CIF MOTOR OPERATED V	
D	UNTAGGED CONDUIT RUN - CONTRACTOR TO	Ю	WALL MOUNTED FIXTURE (SURFACE OR ARM)	AIL	AMBER INDICATING LIGHT	MS MTS	MOTOR STARTER MANUAL TRANSFER S	SWITCH
/	PROVIDE RACEWAY FOR CONTROL OR SIGNAL WIRING AS REQUIRED BY THE EQUIPMENT , IN	•		AL ALT	ALARM ALTERNATOR	N	NEUTRAL	
	ACCORDANCE TO THE WIRING DIAGRAMS, OR AS SPECIFIED. CONDUIT SIZE PER NEC; MINIMUM 3/4"		POLE ARM MOUNTED FIXTURE	AM AO	AMMETER ANALOG OUTPUT POINT (PLC)	NC NEC	NORMALLY CLOSED NATIONAL ELECTRIC	AL CODE
	"C" = (120V) #14 CONTROL WIRE, #12 POWER WIRE	$\cap$		AS AT	AMPERE SWITCH	NEMA	NATIONAL ELECTRIC ASSOCIATION	AL MANUFACTURERS
	"S" = TSP SIGNAL WIRE "D" = DEVICENET CABLE CONNECTION		RECESSED LIGHT FIXTURE	ATS	AUTOMATIC TRANSFER SWITCH	NF N.O.	NON FUSED NORMALLY OPEN	
	"E" = ETHERNET CABLE CONNECTION (CAT-5) "F" = FIRE ALARM PANEL CONNECTION	⊢⊸	INFRARED FLOOD LIGHT FIXTURE	AWG	AMERICAN WIRE GAUGE	OI		CE
	PROVIDE # OF WIRES AS REQUIRED.			BAT BC	BATTERY BATTERY CHARGER	OIT OL	OPERATOR IN TROUE OVERLOAD RELAY	
0	CONDUIT TURNED UP OR TOWARD		EXIT LIGHT FIXTURE WALL MOUNTED	BH BIL	BLOCK HEATER BLUE INDICATING LIGHT	OT	OVER TEMP	
Э	RACEWAY TURNED DOWN	▲		BKR BP	BREAKER BYPASS CONTRACTOR	P PB	POWER PUSH BUTTON	
	CONDUIT CONCEALED	0	EMERGENCY LIGHT FIXTURE WITH BATTERY BALLAST			PBC PBD	PULLBOX (CONTROL) PULLBOX (DATA)	
	CONDUIT EXPOSED		OCCUPANCY SENSOR	C CAP	CONDUIT, CONTROL CAPACITOR	PBL PBP	PUSH BUTTON - LIGH PULLBOX (POWER)	TED
L	CONDUIT JUNCTION BOX	os	CEILING MOUNTED	CB CKT	CIRCUIT BREAKER CIRCUIT	PBS PE	PULLBOX (FOWER) PULLBOX (SIGNAL) PHOTO ELECTRIC RE	ΙΑΥ
РВ НН	PB = PULL BOX, HH = HANDHOLE	<u>SWITCHES</u>		CNT CP	START COUNTER CONTROL PANEL		PHOTO ELECTRIC RE PHASE FAILURE RELA PROGRAMMABLE LO	۹Y
	C=CONTROL, S=SIGNAL, P=POWER	\$ <sub>P3a</sub>		CPT	CONTROL POWER TRANSFORMER	PMD PNL	PROGRAMMABLE LO POWER MONITORING PANEL	
	CONDUIT CAPPED			CR CT	CONTROL RELAY CURRENT TRANSFORMER	POT	POTENTIOMETER	
$\sim$	CORD OR FLEXIBLE CONDUIT	K KEY C	ING SWITCH3THREE WAYOPERATED SWITCH4FOUR WAY	CU CV	COPPER CHECK VALVE	PS PT PVC	PRESSURE SWITCH, POTENTIAL TRANSFO POLYVINYL CHLORID	DRMER
		MC MOME	R RATED ENTARY CONTACT, a LOWER CASE =		DIRECT BURIED			· · · · ·
	CRAME AND INTO THE	P SWITC	E POSITION SWIITCH LEG	DB DC	DIRECT CURRENT	RCP RIL	REMOTE CONTROL P RED INDICATING LIGH	
WIRE DIA	GRAMS, ONE-LINES, MISC	T TIMEF		DEM DF	DEMAND DEMAND FACTOR	RO RTD	RUN - OFF RESISTANCE TEMPEI	RATURE DEVICE
<u> </u>	EXISTING	XP EXPLO	HER PROOF DSION PROOF	DI DM	AC DIGITAL INPUT POINT (PLC) DIGITAL METER	RTM RV	RUN TIME METER REDUCED VOLTAGE	
	FUTURE		PANCY SENSOR	DO DWG	AC DIGITAL OUTPUT POINT (PLC)	RVAT		AUTO TRANSFORMER
	PROPOSED WORK/EQUIPMENT	LS	MAGNETIC LIMIT SWITCH		DRAWING	S SA	STARTER SIGNAL SURGE ARRE	STOR
	- CONDUCTORS NOT CONNECTED	кs	KEY SWITCH	EF ENCL	EXHAUST FAN ENCLOSURE	SCL SE	SEATTLE CITY LIGHT SERVICE ENTRANCE	
	- CONDUCTORS CONNECTED		URPOSE CONNECTIONS	EX	EXISTING	SPD SST	SURGE PROTECTIVE STAINLESS STEEL	DEVICE
T				F	FUSED	SSS SV	SOLID STATE STARTE SOLENOID VALVE	ER
		<b>(</b> ) 2	SPECIAL PURPOSE EQUIPMENT CONNECTION	FACP FS	FIRE ALARM CONTROL PANEL FLOW SWITCH	T	THERMOSTAT	
DECENEN		- 4	SPECIAL PURPOSE EQUIPMENT CONNECTION WALL MOUNTED	FT FTB	FLOW TRANSMITTER FLUIDIZED THERMAL BACKFILL	TC TDOD	TIME CLOCK TIME DELAY ON DE-E	
REFEKEN		DECEDTAC	CLE OUTLETS	FVNR FU	FULL VOLTAGE NON-REVERSING FUSE	TDOE TDR	TIME DELAY ON DE-L TIME DELAY ON ENEI TIME DELAY RELAY	
(100.1)				FVR	FULL VOLTAGE REVERSING	TEL TNI	TELEPHONE TELEPHONE NETWO	
\			DUPLEX RECEPTACLE OUTLET	G, GND		TS TSP	TEMPERATURE SWIT	СН
L	] LIGHTS		WALL MOUNTED (NEMA 5-15R UNLESS OTHERWISE SPECIFIED)	GEN GFI	GENERATOR GROUND FAULT INTERRUPTER	TSP TST TVSS	TWISTED SHIELDED	
	11 EQUIPMENT TAG	6 ⊕ WP	QUADRUPLE RECEPTACLE OUTLET	GFP GIL	GROUND FAULT PROTECTOR GREEN INDICATING LIGHT	TYP	TYPICAL	- JUNGE JUFFKEJJEK
FIT-11		₩	WALL MOUNTED	GRS	(GRC) GALVANIZED RIGID STEEL	UH	UNIT HEATER	
(1)	CONSTRUCTION NOTE	$\rightarrow$	DUPLEX RECEPTACLE OUTLET		(CONDUIT)	UPS		UVVER OUPPLY
$\bigcirc$			CEILING MOUNTED	H HH	HOT, HIGH, HAND HAND HOLE	V VS	VOLT FLOW (VELOCITY) SV	VITCH
	INSTRUMENT TYPE / FUNCTION	$\ominus$	SINGLE RECEPTACLE	HID HMI	HIGH INTENSITY DISCHARGE HUMAN MACHINE INTERFACE	VFD	VARIABLE FREQUENCY DRIVE	
FN #	) INSTRUMENT DESIGNATION	∅ 4	SPECIAL PURPOSE RECEPTACLE OUTLET	HOA	HAND OFF AUTO (SELECTOR SWITCH)	VSD	VARIABLE SPEED DRIVE	
#			SPECIAL PURPOSE RECEPTACLE OUTLET	HP HS	HORSEPOWER HAND STATION (HOA SWITCH & POT)	W	WATT	
	INSTRUMENT NUMBER		WALL MOUNTED	HTR	HEATER	WHM WIL	WATT HOUR METER WHITE INDICATING	
			DUPLEX DATA OUTLET (RJ45 STYLE) (2 PORTS UNLESS NOTED OTHERWISE)	IC ISR	ISOLATION CONTRACTOR INTRINSICALLY SAFE RELAY	WP	LIGHT WEATHER PROOF	Call 48 Hours
				KVA	KILO VOLT AMPS	XFMR	TRANSFORMER	Before You Dig
			SPECIAL NETWORK CONNECTION	KVAR KVARH	KILO VOLT AMP REACTIVE KILOVAR HOUR	XP XMTR	EXPLOSION PROOF TRANSMITTER	1-800-424-5555
		<u>ΦΦ(</u> X)	SURFACE METAL RACEWAY WITH RECEPTACLE AT "X" OC	KW KWH	KILOWATT KILOWATT HOUR	ZS	LIMIT SWITCH	UNDERGROUND SERVICE
		1.2.3 FTC 4	RE CIRCUIT NUMBERS OF PANEL BOARD		LOW, LIGHT	_~		
			UTLET IS TO BE CONNECTED. REFER TO		LIGHTING CONTACTOR			THEL GUY PARTICIPALITY OF WASHING
				LCP LE	LOCAL CONTROL PANEL LEVEL ELEMENT			
		WP WEAT	ZONTAL THER PROOF	LS LT	LEVEL SWITCH LEVEL TRANSMITTER			Z P. 44806 S. 55
		GFCI GROU	OSION PROOF JND FAULT CIRCUIT INTERRUPTER	LTG	LIGHTING			STONAL PROTECT
		WPIU WEAT	THER PROOF, IN USE	<u> </u>				01/06/2023
ants, LLC	Designed: N. Palmatier, P.E.	KITSAP	COUNTY		ILVERDALE CONVEYANCE SYSTEM AN SCHEDULE		TATION 4 UPGRADES	Drawing: E-1C
Suite 500 n 98101	N/A	18	57 Kitsap County Public Wo	orks				Sheet: 87 of 117
	Drawn: P. Simon One Inch at Full Scale		Port Orchard, WA 98366					File: P21-10530_E-1C
s.com	Checked: T. Fisher, P.E. If Not One Inch Scale Accordingly	WASH	INGTON					Date: January 2023
							COPYRIGHT © 2023 BHC CONSI	JLTANTS, LLC. ALL RIGHTS RESERVE



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<b>tants, LLC</b> , Suite 500 on 98101	Designed: N. Palmatier, P.E.	Scale: 1" = 10'-0"	KITSAP COUNTY	Kitsap County Public Works
	Drawn: A. Bradley	One Inch at Full Scale	18	614 Division Street, MS 26 Port Orchard, WA 98366
) nts.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON	Port Orchard, WA 96366

### NOTES:

1. COORDINATE WITH UTILITY AND PROVIDE TO UTILITY REQUIREMENTS. PUGET SOUND ENERGY:

PERSON LASTNAME, PROJECT MANAGER (###) ###-####

**PROVIDE THE FOLLOWING:** 

- EXCAVATE THE VAULT AND HANDHOLE LOCATION.
- REMOVE DEBRIS AND LEVEL THE BOTTOM OF THE EXCAVATION WITH A 6-INCH BASE OF CRUSHED ROCK.
- BACKFILL THE EXCAVATION TO FINISHED GRADE AT 2 INCHES BELOW THE VAULT TOP
- GROUT AROUND SERVICE CONDUITS THAT ENTER INTO PSE VAULTS. CONDUITS MAY ONLY ENTER THROUGH MOUSE HOLE OPENINGS OR KNOCKOUTS.
- SEAL SERVICE ENTRY CONDUIT AT PSE'S VAULT TO PREVENT WATER FROM ENTERING INTO YOUR SERVICE PANEL

THE MINIMUM TRENCH WIDTH IS 18 INCHES; HOWEVER, THE EXCAVATOR MAY NEED TO INCREASE THE TRENCH WIDTH DEPENDING ON THE OTHER CONDUITS/LINES BEING INSTALLED IN THE TRENCH.

TRAIN THE CABLE AND MARK THE RUNS:

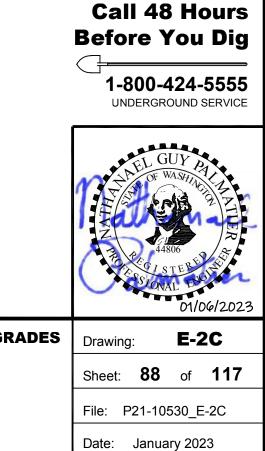
- LABEL EACH CABLE'S PHASE AND THE NEUTRALS. • LEAVE 30 FEET OF CABLE COILED IN THE VAULT.
- 2. PROVIDE GROUNDING SYSTEM : EXOTHERMICALLY WELDS ALL CONNECTIONS UNLESS NOTED OTHERWISE. DO NOT CONNECT BUILDING GROUNDING SYSTEM TO ELECTRICAL UTILITY GROUNDING SYSTEM UNLESS DIRECTED TO DO SO BY THE ELECTRICAL UTILITY. THE GROUNDING ELECTRODE CONDUCTOR SHALL BE #1/0 UNLESS NOTED OTHERWISE a. #3/0 GROUNDING RING
  - b. #1/0 CONCRETE ENCASED STRUCTURAL MEMBERS (UFER)
  - c. #1/0 WATER UTILITY PIPE CONNECTION (2)
  - d. #1/0 GROUND ROD, TYP
  - e. #1/0 SERVICE ENTRANCE SWITCHBOARD
  - f. #1/0 GENERATOR INLET RECEPTACLE PANEL
  - g. #1/0 MOTOR CONTROL CENTER (3) h. #1/0 AUTOMATIC TRANSFER SWITCH (2)
  - #1/0 DIESEL ENGINE GENERATOR
  - #2 PANEL LA
  - k. #2 TRANSFORMER TLA
  - I. #8 MAIN CONTROL PANEL
  - m. #8 MAGNETIC FLOW METER
  - n. #8 HANDHOLE LIDS (2)
  - o. #8 PUMP MOTOR TERMINAL JUNCTION BOXES (3) p. #8 WET WELL EQUIPMENT AND HATCHES (5)
- 3. INSTALL OWNER FURNISHED ENGINE GENERATOR.
- 4. SEE DWG E-30C FOR CIRCUIT INFORMATION.

### **CONSTRUCTION NOTES:**

- (1) PROVIDE METAL DETECTABLE STAKE, 3/4" REBAR OR LARGER
- 2 LINES REPRESENT MULTIPLE CONDUITS
- (3) TERMINATE CONDUITS FOR FUTURE TELECOM CIRCUITS IN JUNCTION BOX IN LOWER LEVEL OF PUMP STATION

(4) SEE DETAIL 5/E-24C. CONNECT AND HARD PIPE DRAIN TO CATCH BASIN

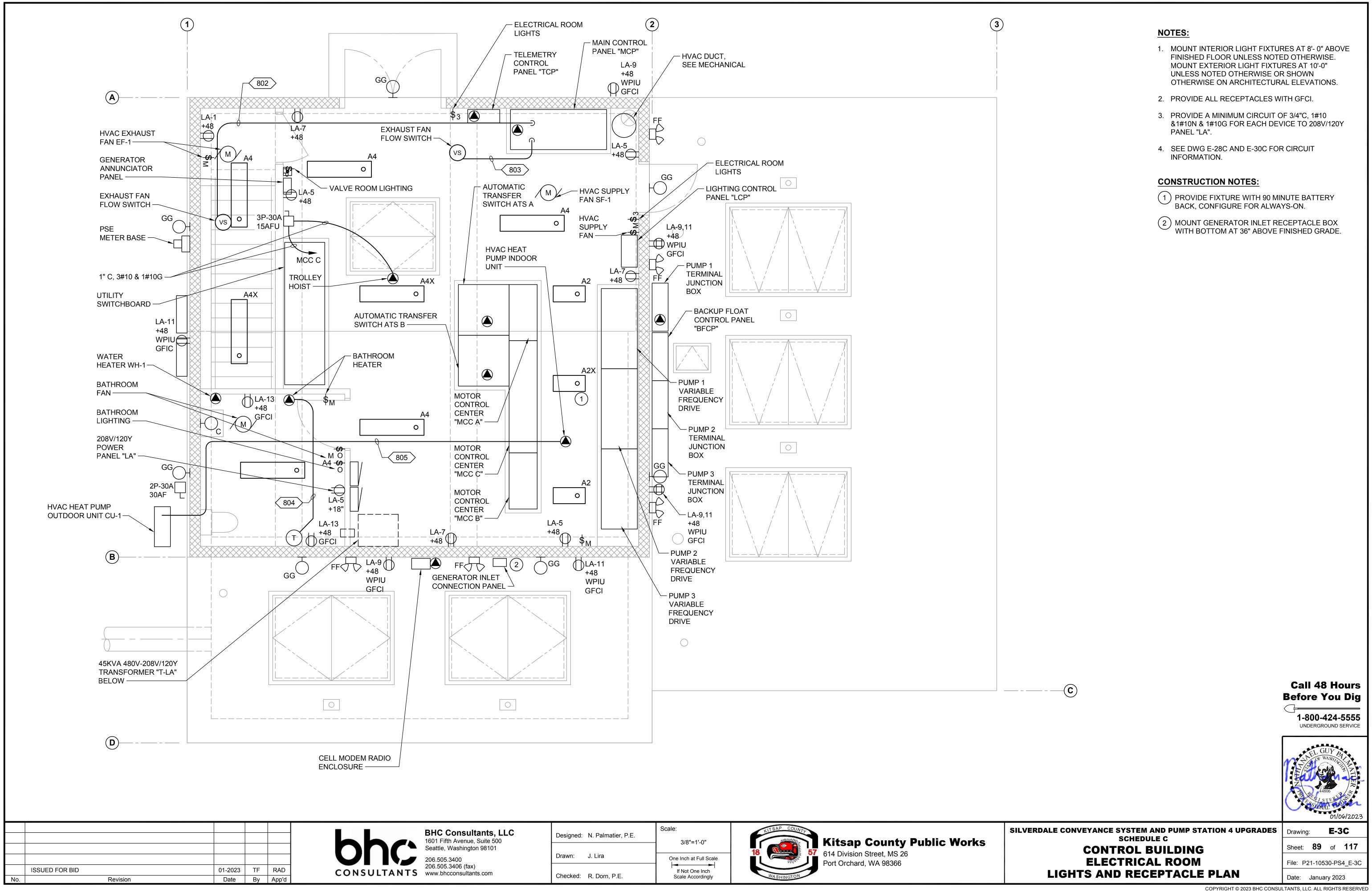
(5) SERVICE CONDUITS ENTER BUILDING. ENCASE IN CONCRETE OR CONSTANT DENSITY FILL WITHIN 36 INCHES OF EXTERIOR WALL. ENCASE SERVICE CONDUITS WITHIN PUMP STATIONS BETWEEN EXTERIOR WALL AND HOUSEKEEPING PAD UNDER SWITCHBOARD. SEE STRUCTURAL DETAILS FOR ENCASEMENT REQUIREMENTS WITHIN BUILDING. SEE DETAIL 7/E-24 FOR GENERAL ENCASEMENT REQUIREMENTS.



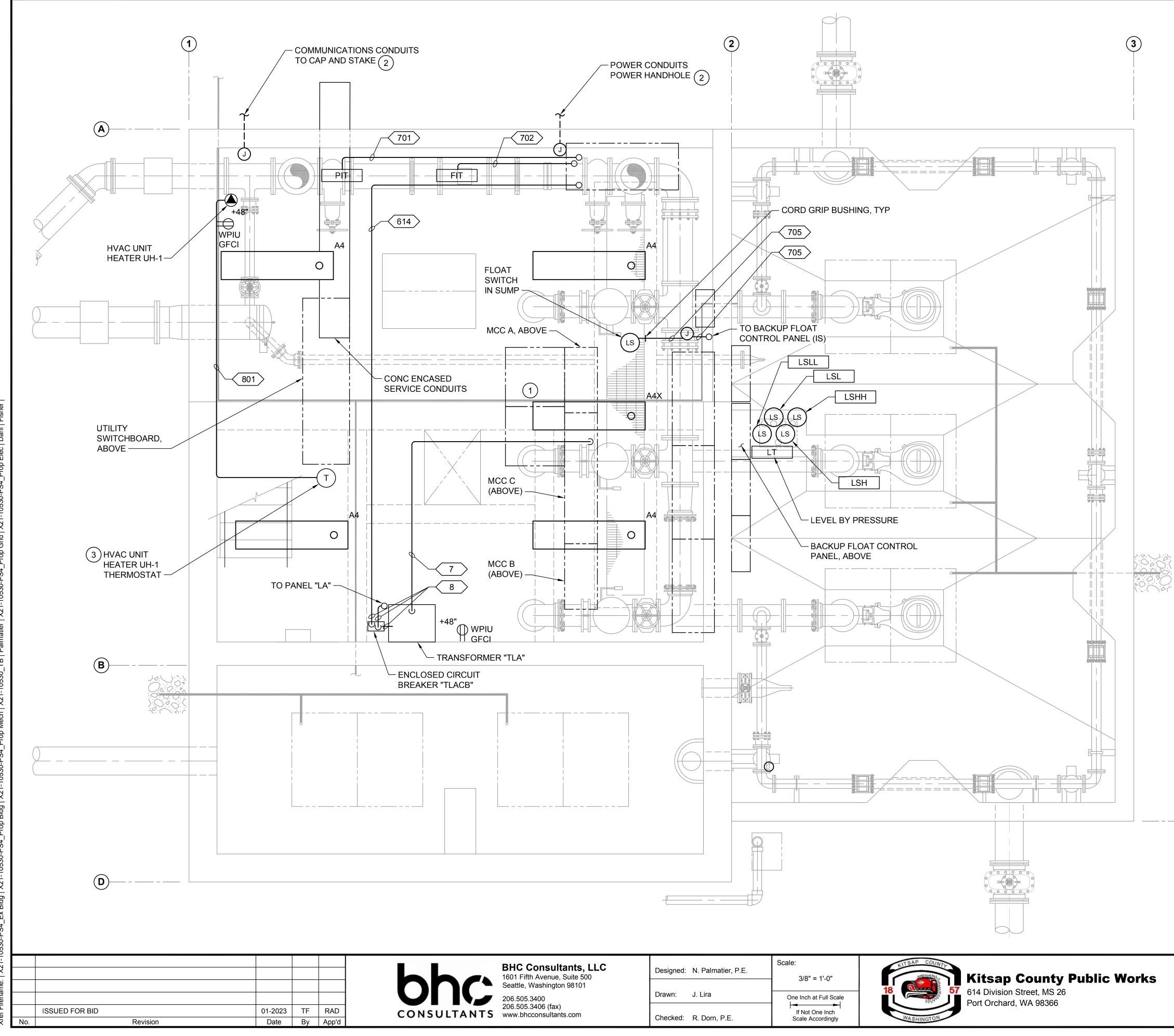
SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C

# **ELECTRICAL SITE PLAN**

: solsoe. TB | Dahl am CAD User: 1 | X21-10530\_1 :50:15 op Gric 2023-08: PS4\_Pro late: Jan 06, 3 | X21-10530-F erdale Convey-PS 4 Upgr\Design\d Filename: P21-10530\_E lec | X21-10530-PS4\_Prop Bldg | X21-10530-PS4\_Ex Bldg | X2 ap



tants, LLC 9, Suite 500 on 98101	Designed: N. Palmatier, P.E.	Scale: 3/8"=1'-0"	Kitsap County Public Works	
,	Drawn: J. Lira	One Inch at Full Scale	18 57 614 Division Street, MS 26 Port Orchard, WA 98366	
() nts.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON VASHINGTON	



Grid | CAD PS4\_ Еġ TB P 4 X P2, -liename: 0530-PS₄ -X21 | dg Ida | X21 X2 ap

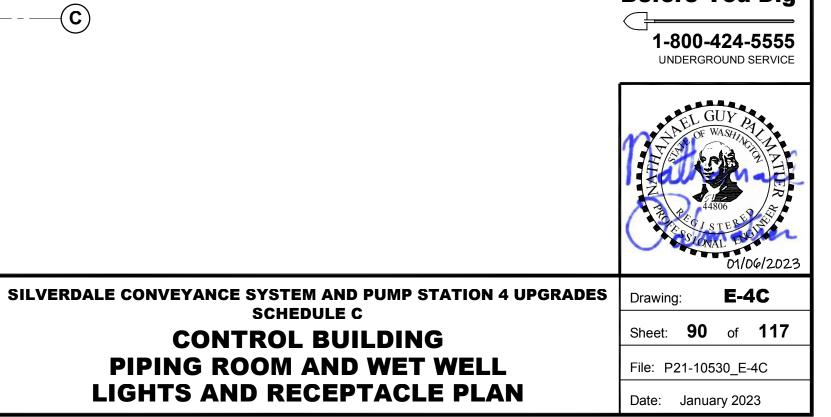
<b>tants, LLC</b> , Suite 500 on 98101	Designed: N. Palmatier, P.E.	Scale: 	KITSAP COUNTY	Kitsap County Public Work
、 、	Drawn: J. Lira	One Inch at Full Scale	18 57	614 Division Street, MS 26 Port Orchard, WA 98366
) nts.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON	

### NOTES:

- 1. PROVIDE CHAIN HANG KIT OR OTHER MEANS TO MOUNT LIGHTING FIXTURES AT 8'-0" ABOVE FINISHED FLOOR.
- 2. PROVIDE LIQUID-TIGHT CORD CONNECTIONS TO LIGHTING FIXTURES.
- 3. FIXTURES IN VALVE ROOM ARE CONTROLLED BY PILOT LIGHT SNAP SWITCH ADJACENT TO VALVE ROOM DOOR IN ELECTRICAL ROOM.
- 4. PROVIDE 3/4"C, 1#10 & 1#10N & 1#10G FOR EACH POWERED DEVICE TO PANEL LA UNLESS NOTED OTHERWISE.
- 5. SEE DWG E-30C FOR CIRCUIT INFORMATION.

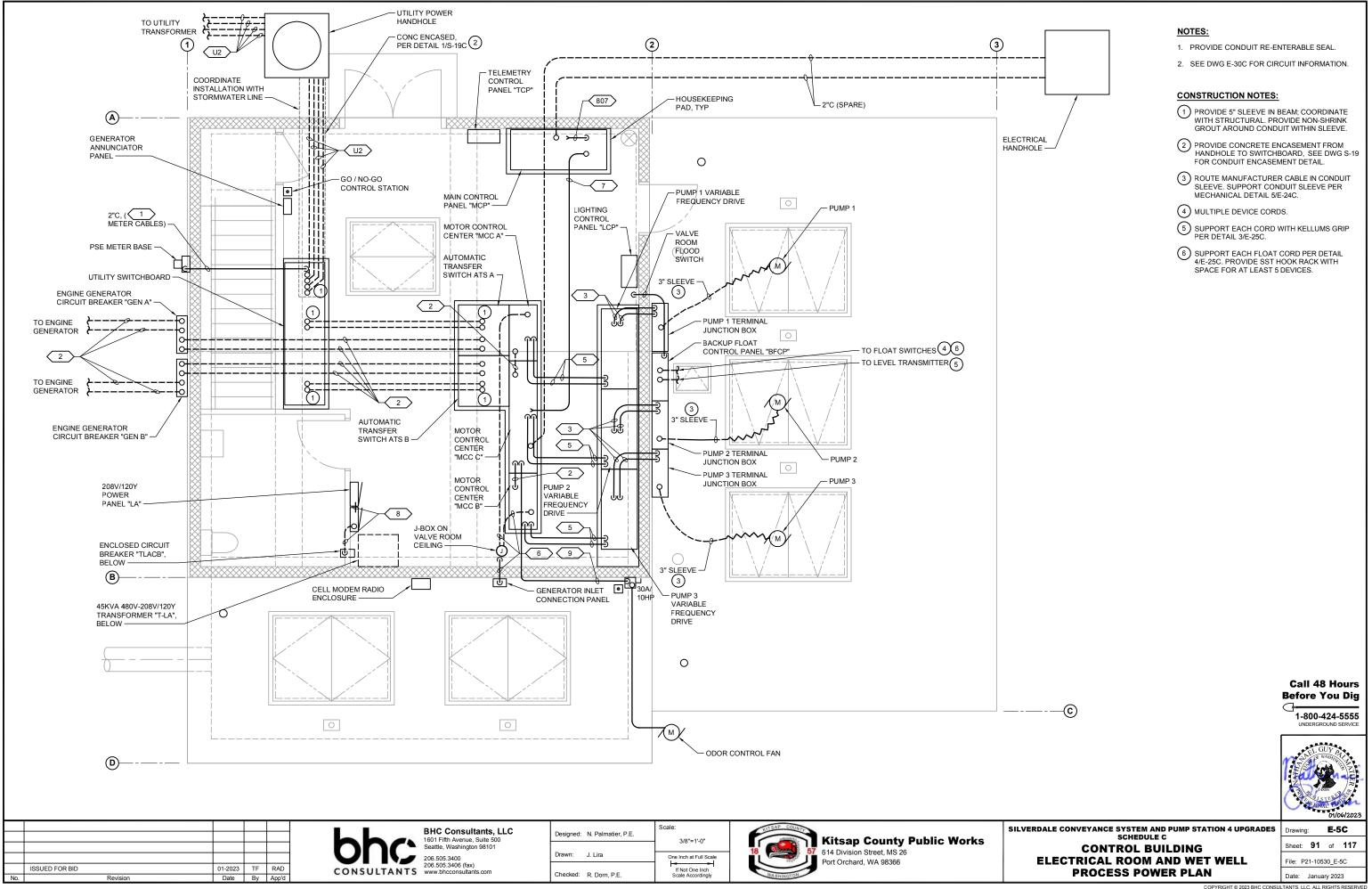
### **CONSTRUCTION NOTES:**

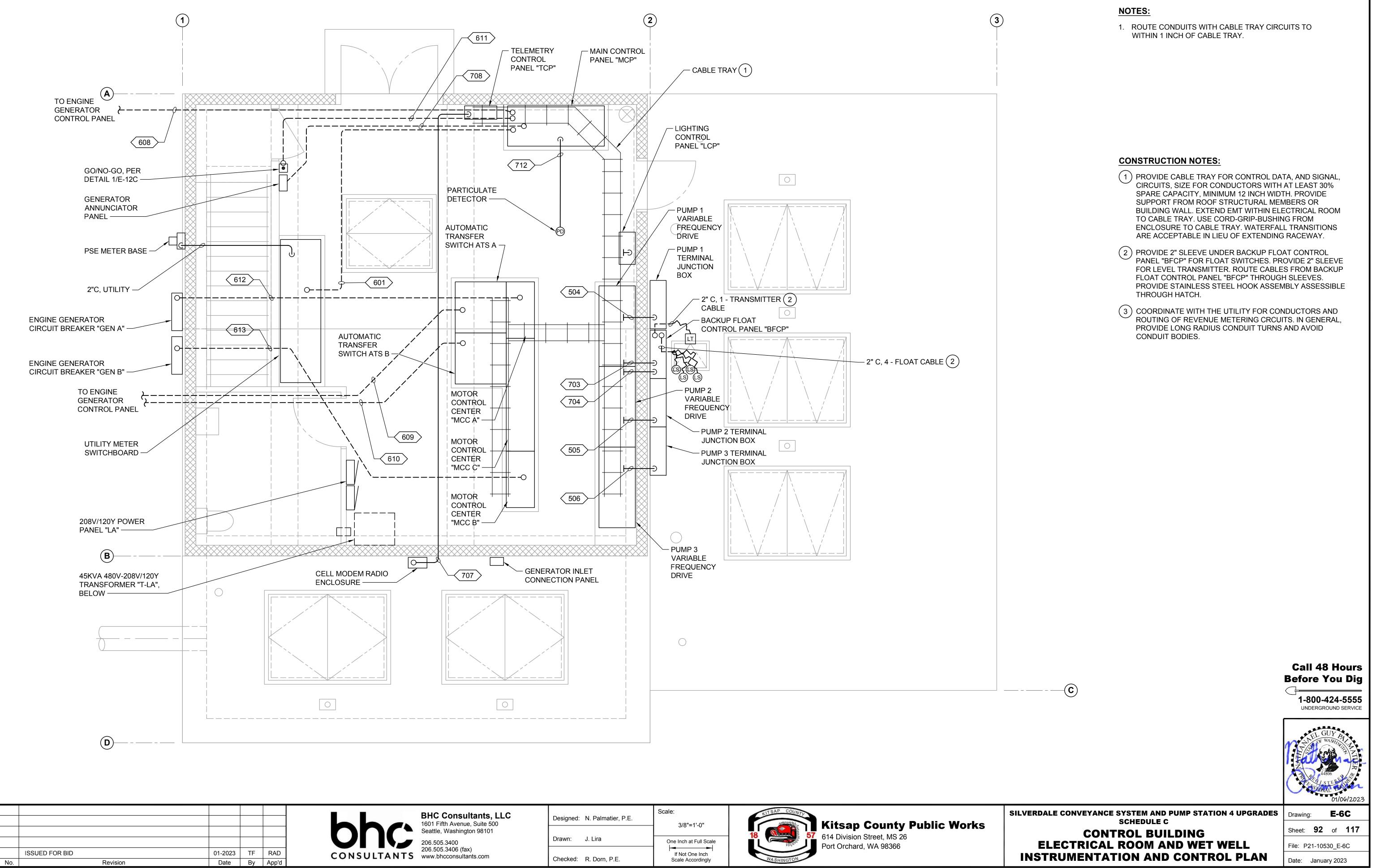
- 1 PROVIDE FIXTURE WITH 90 MINUTE BATTERY BACK, CONFIGURE FOR ALWAYS-ON.
- (2) PROVIDE 24" x 24" x 8" NEMA4 JUNCTION BOX ON WALL. POSITION ABOVE MECHANICAL PIPE. PROVIDE ENCLOSURE DRAIN. PROVIDE 1/4" STANDOFF KIT FROM STRUCTURAL WALL TO PREVENT ACCUMULATION ON J-BOX ENCLOSURE.
- 3 MOUNT HVAC THERMOSTAT ON STAIRCASE RAILING SUPPORTS.
- 4 MOUNT TRANSFORMER ON WALL WITH BOTTOM AT LEAST 10 FEET ABOVE FINISHED FLOOR.



Call 48 Hours

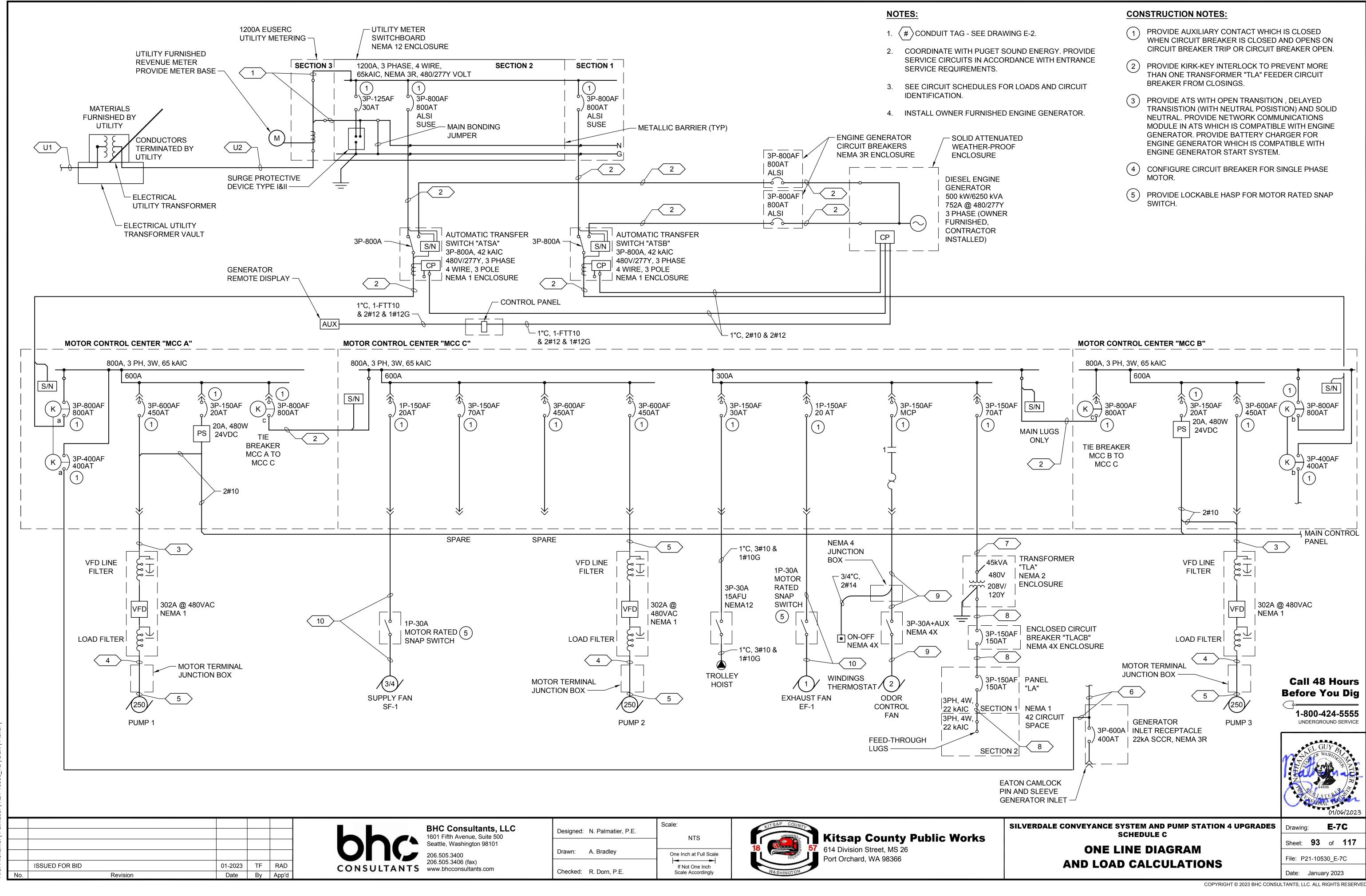
**Before You Dig** 





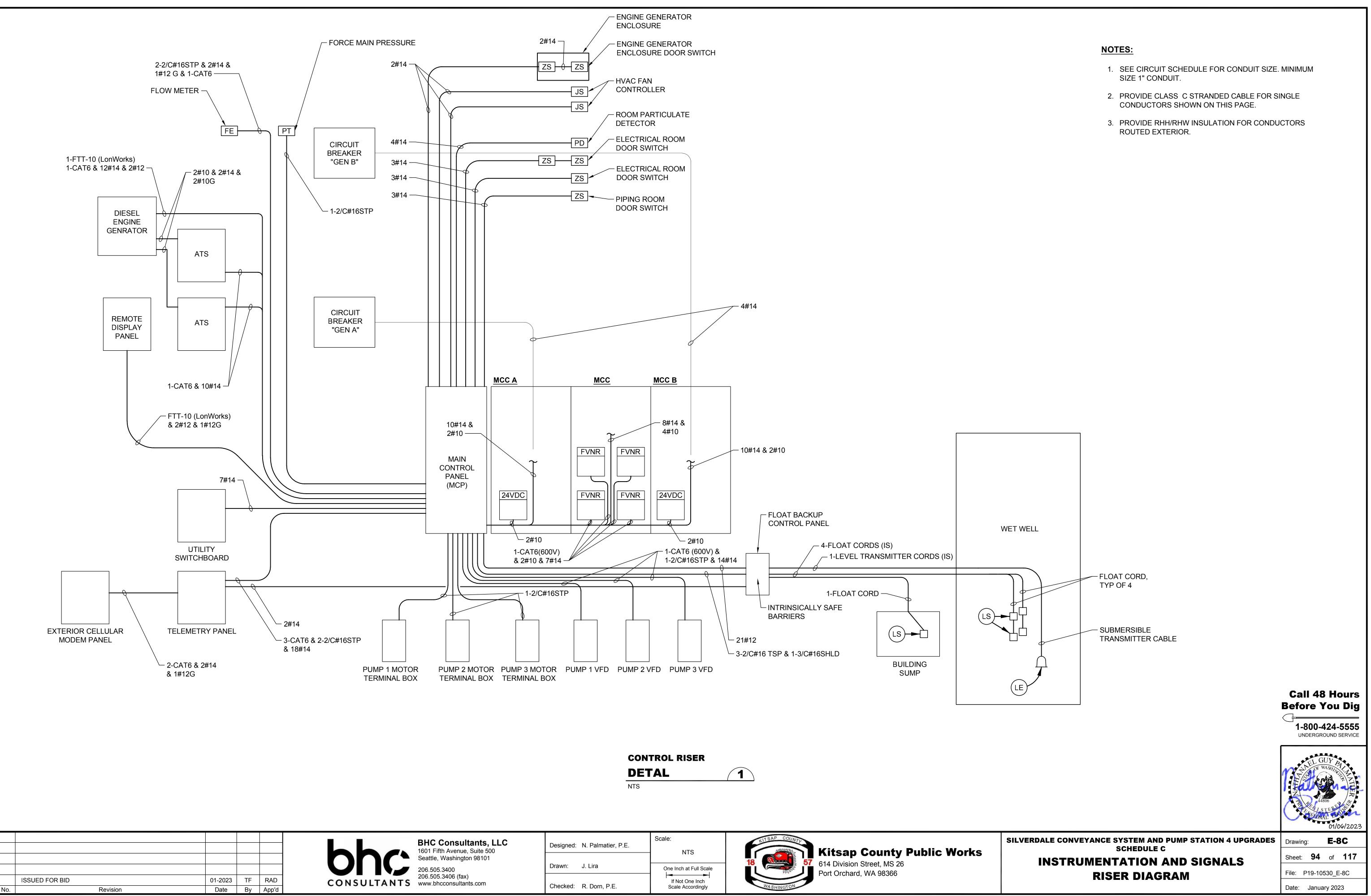
: Jan 06 54\_TB | E-6C X21h/d، dg | X21lda | X21. g X

t <b>ants, LLC</b> Suite 500 n 98101	Designed: N. Palmatier, P.E. Drawn: J. Lira	Scale: 3/8"=1'-0" One Inch at Full Scale	18 <b>Kitsap County Public Works</b> 614 Division Street, MS 26	s
ts.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	Port Orchard, WA 98366	

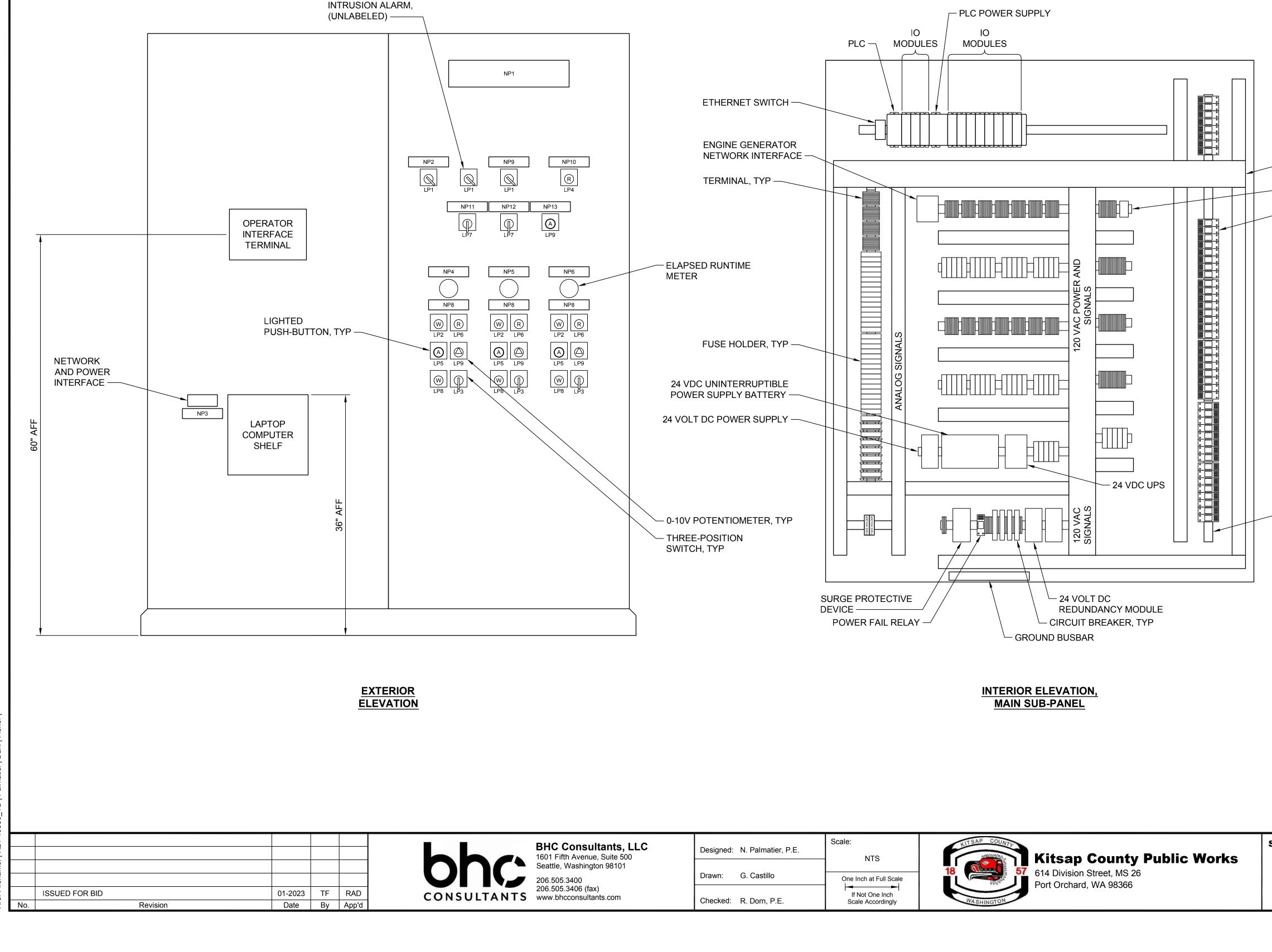


30\_TB | Dal 5 2

Itants, LLC e, Suite 500 ton 98101	Designed: N. Palmatier, P.E.	Scale: NTS	Kitsap County Public Works
	Drawn: A. Bradley	One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366
x) Ints.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON POIL OICHAID, WA 98366



erdale Convey-P3 er | Dahl | Fisher | unty\21-1053 0530\_TB | Pa X2 ap S II ⊃ath: Xref



<b>ants, LLC</b> Suite 500 n 98101	Designed: N. Palmatier, P.E.	Scale: NTS	Kitsap County Public Works
	Drawn: G. Castillo	One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366
s.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON

	NAME PLATE SCHEDULE
NP1	PUMP STATION 4 MAIN CONTROL PANEL (MCP) HAEDEN AND COLCHESTER DR SE
NP2	ALARM HORN ENABLE
NP3	RECEPTACLE FOR LAPTOP ONLY (2A MAX)
NP4	PUMP 1
NP5	PUMP 2
NP6	PUMP 3
NP7	PUMP STATION 4 FLOWMETER
NP8	RUNTIME (HRS)
NP9	ALARM HORN
NP10	HIGH FLOAT ALARM
NP11	LEAD SELECT
NP12	LAG SELECT
NP13	SELECT ERROR

– WIRE WAY, TYP

- THERMOSTAT

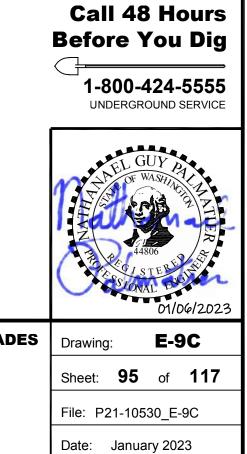
-RELAY, TYP

	LEGEND PLATE SCHEDULE
LP1	OFF - ON
LP2	READY
LP3	HAND - OFF - AUTO
LP4	COMMON ALARM/RESET
LP5	FAULT/RESET
LP6	RUNNING
LP7	123
LP8	FOLLOW SELECTED
LP9	ERROR

### NOTES:

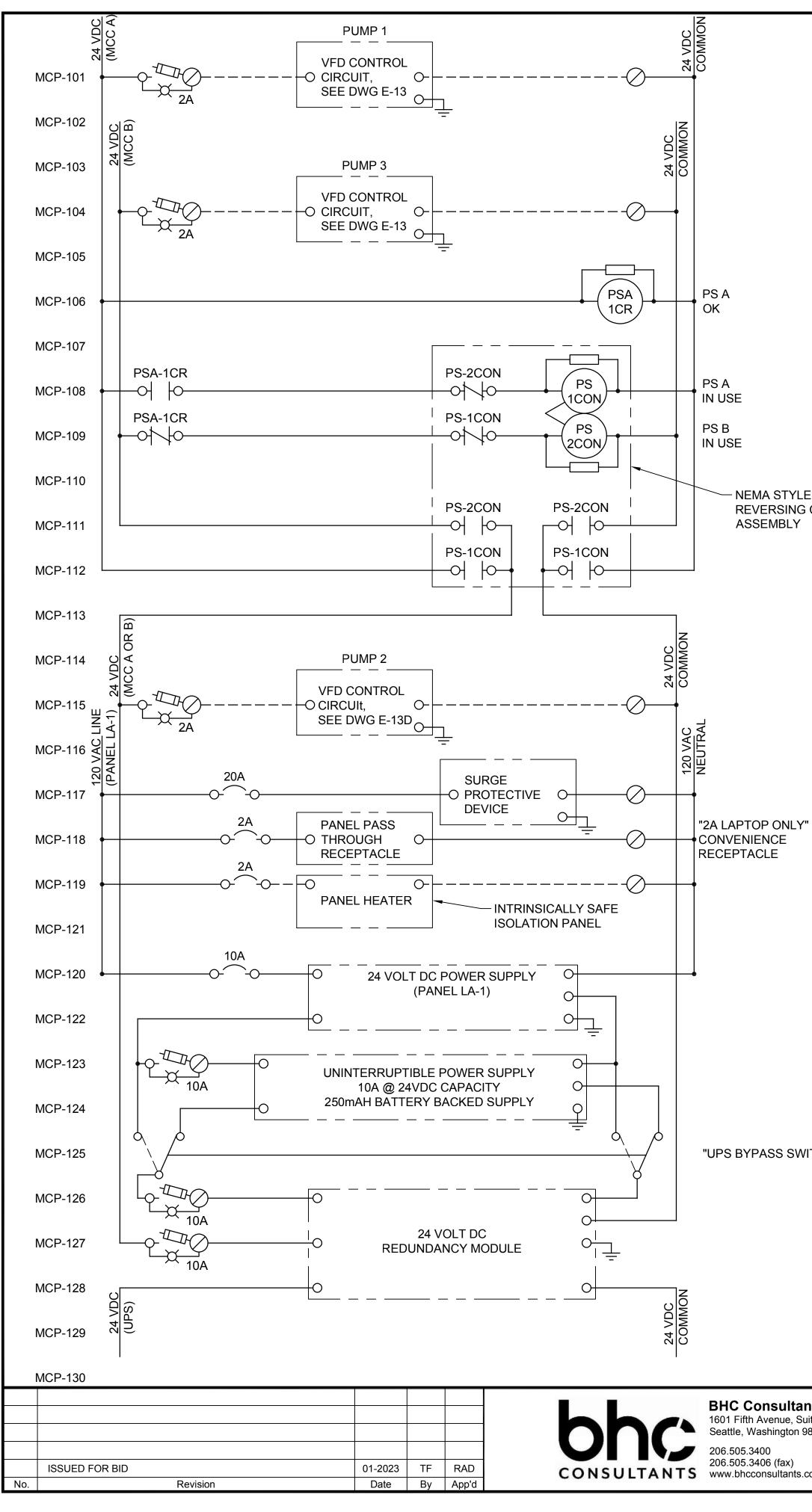
1. THE COUNTY WILL PROVIDE THE ACTUAL STREET ADDRESS TO THE SUCCESSFUL CONTRACTOR AFTER AWARD. USE THE ACTUAL STREET ADDRESS.

– DIN RAIL, TYP



SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C ELECTRICAL

MAIN CONTROL PANEL ELEVATIONS



21-1 X21

Silverdale 30\_TB | Dat ef 11:

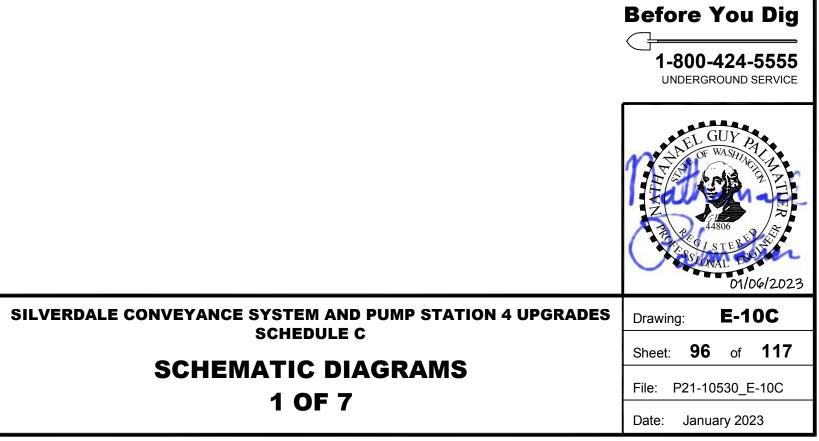
	MCP-131 00/ 12 MCP-132 72	) -				24 VDC COMMON
	MCP-132	)				24 V CON
	MCP-133			O PARTICULATE O		⊘
	MCP-134	~~ 6A				
	MCP-135					⊘
	MCP-136					
	MCP-137					
	MCP-138					
	MCP-139	~ 2A		— — — — — — — — — — — — — — — — — — —	 switch	
	MCP-140	$-\gamma \overset{\sim}{\sim} \overset{2A}{\sim} \overset{2A}{\sim}$				<u>⊥</u>
LE SIZE 0 G CONTACTOR	MCP-141					Ţ_
	MCP-142	<u>6</u> A				<u>-</u>
	MCP-143 -			SPARI	Ξ	$\oslash$
	MCP-144	6A				
	MCP-145 -				, ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
	MCP-146	<u>1A</u>				
	MCP-147					
711	MCP-148	<u>1A</u>				
	MCP-149				, ≻	
	MCP-150	∽ 1A				
	MCP-151					
	MCP-152	∽ 1A				
	MCP-153				,	
	MCP-154	<sup>∽</sup> 1A				
/ITCH"	MCP-155				, ≻	
	MCP-156					$\oslash$
	MCP-157	<sup>24</sup> 2A				
	MCP-158			ENGINE GENERATOR NETWORK O		⊘
	MCP-159	<sup>∽</sup> 6A				
	MCP-160					
unts, LLC uite 500	Designed: N. Palmatier, P.	E. Scale:	NTS	KITSAP COUNTY	itsap County	Public Wor
98101						
30101	Drawn: A. Bradley	One Ir	nch at Full Scale		4 Division Street, MS 26 ort Orchard, WA 98366	

### NOTES:

- 1. CONNECT TO 24VDC POWER SUPPLIES IN MCC A AND MCC B. 1.1. POWER SUPPLY PS A IS LOCATED IN MCC A.
  - 1.2. POWER SUPPLY PS B IS LOCATED IN MCC B.

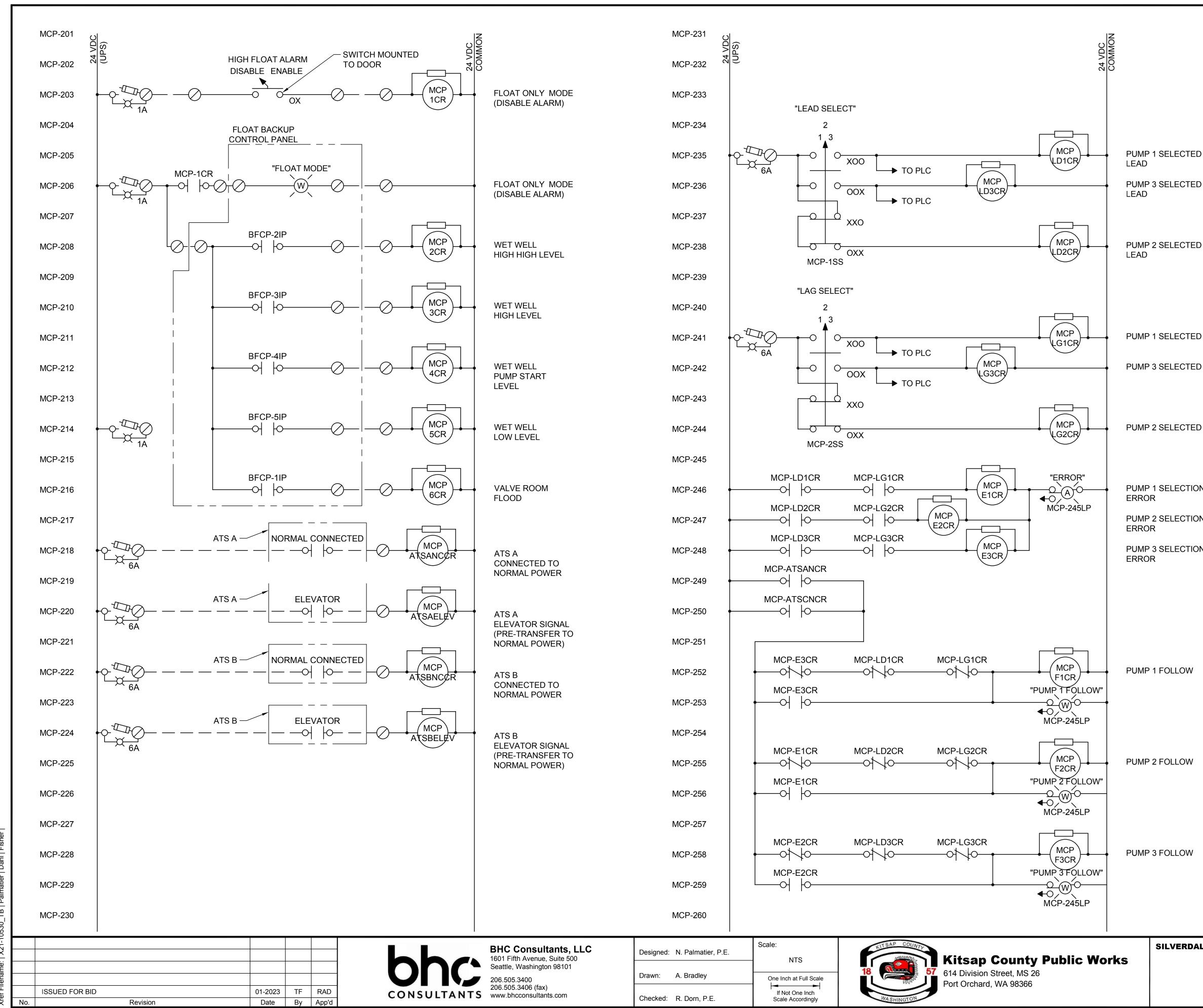
### **CONSTRUCTION NOTES:**

(1) PROVIDE FUSES FOR EACH DEVICE SCHEDULED ON DRAWING E-28.



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Call 48 Hours



Path: S:\Cad\Kitsap County\21-10530 Silverdale Convey-PS 4 Upgr\Design\d Filename: P21-10530\_E-11C Plot date: Jan 06, 2023-09:07:21am CAD User: Xref Filename: | X21-10530\_TB | Palmatier | Dahl | Fisher |

### NOTES:

1. PROVIDE FUSES OR CIRCUIT BREAKERS FOR POWER LOADS. PROVIDE FUSES FOR I/O SIGNALS.

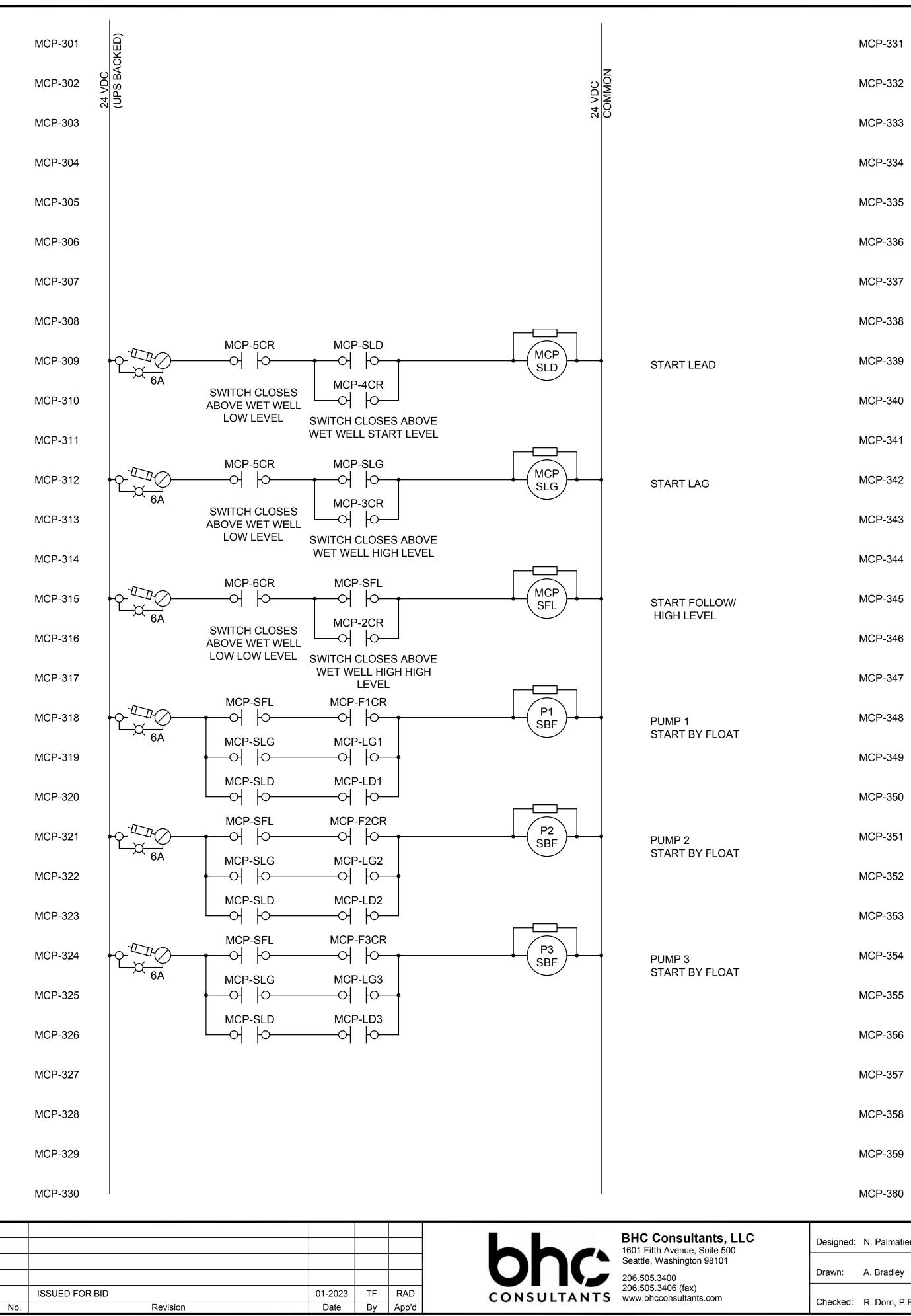
PUMP 1 SELECTED LAG PUMP 3 SELECTED LAG PUMP 2 SELECTED LAG PUMP 1 SELECTION PUMP 2 SELECTION PUMP 3 SELECTION **Call 48 Hours Before You Dig** 1-800-424-5555 UNDERGROUND SERVICE VAL D 01/06/2023 SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES E-11C Drawing: SCHEDULE C Sheet: **97** of **117** SCHEMATIC DIAGRAMS

2 OF 7

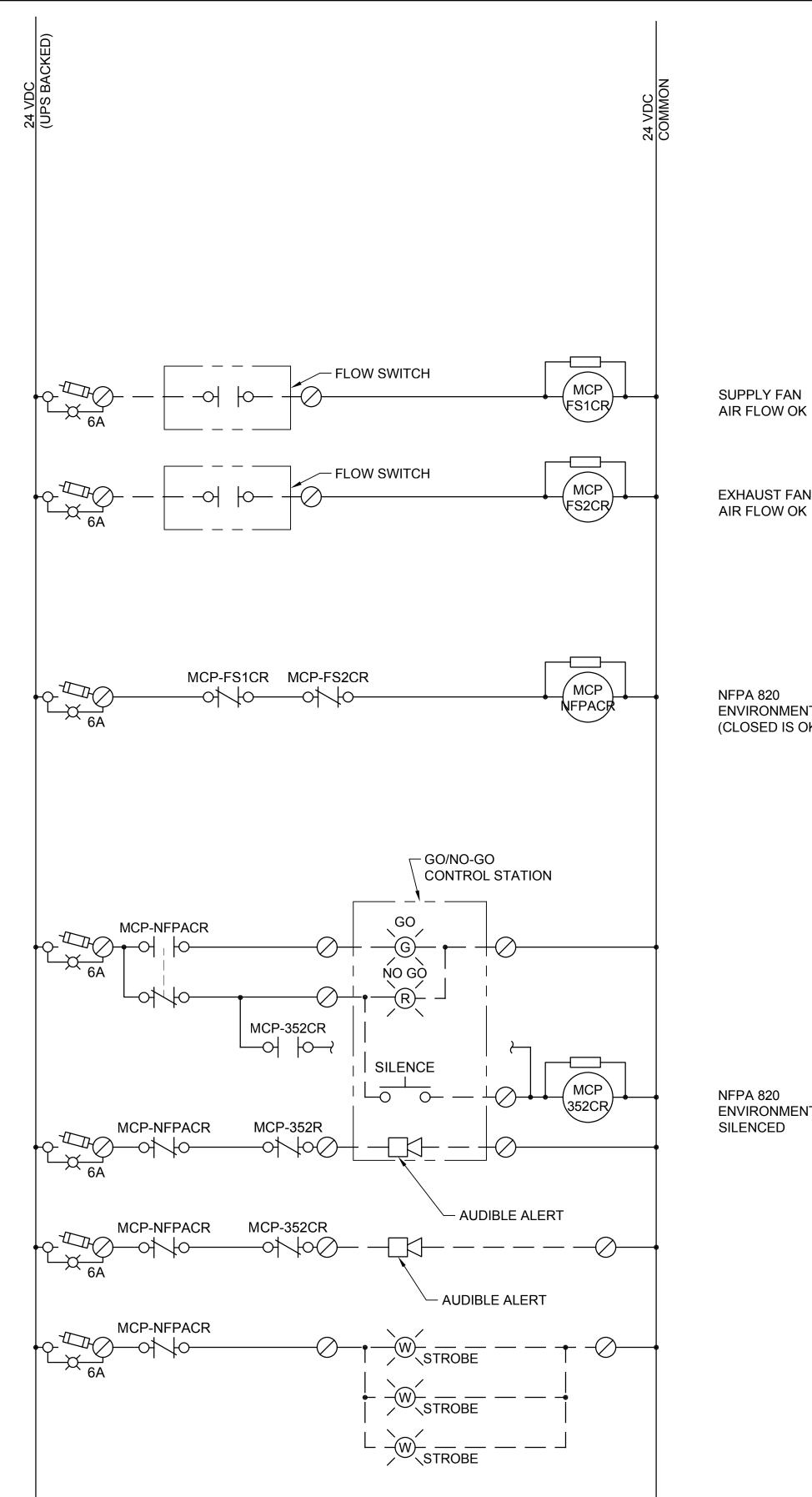
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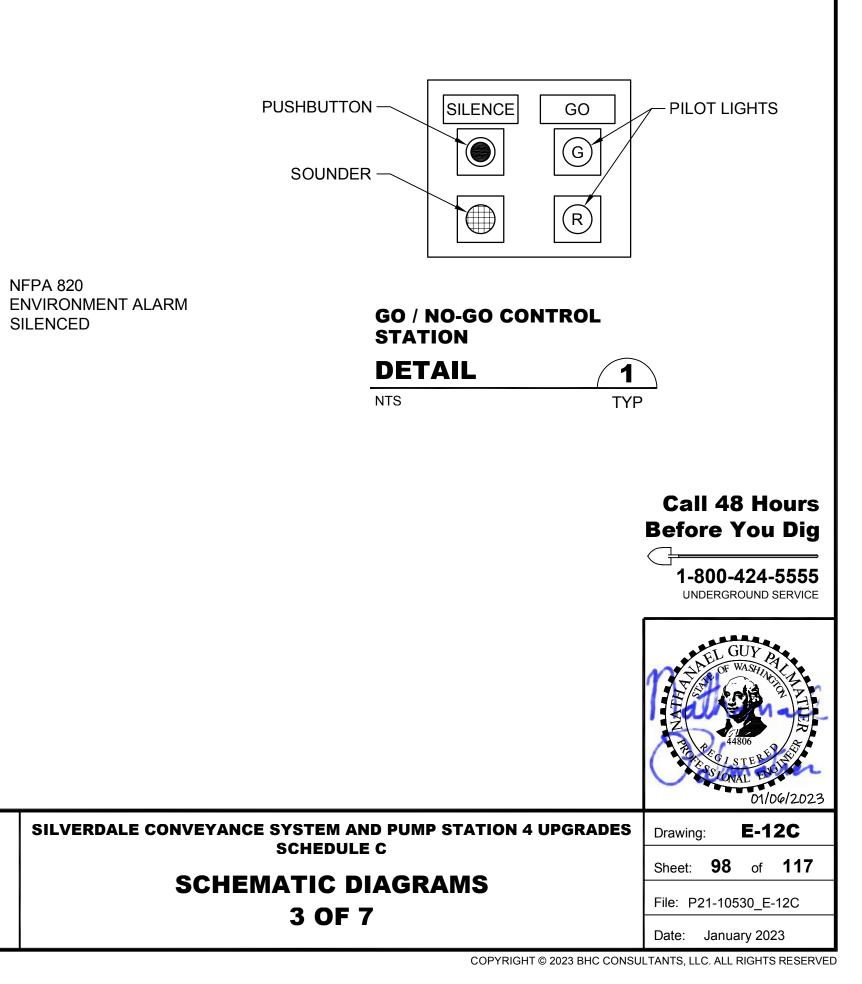
Date: January 2023



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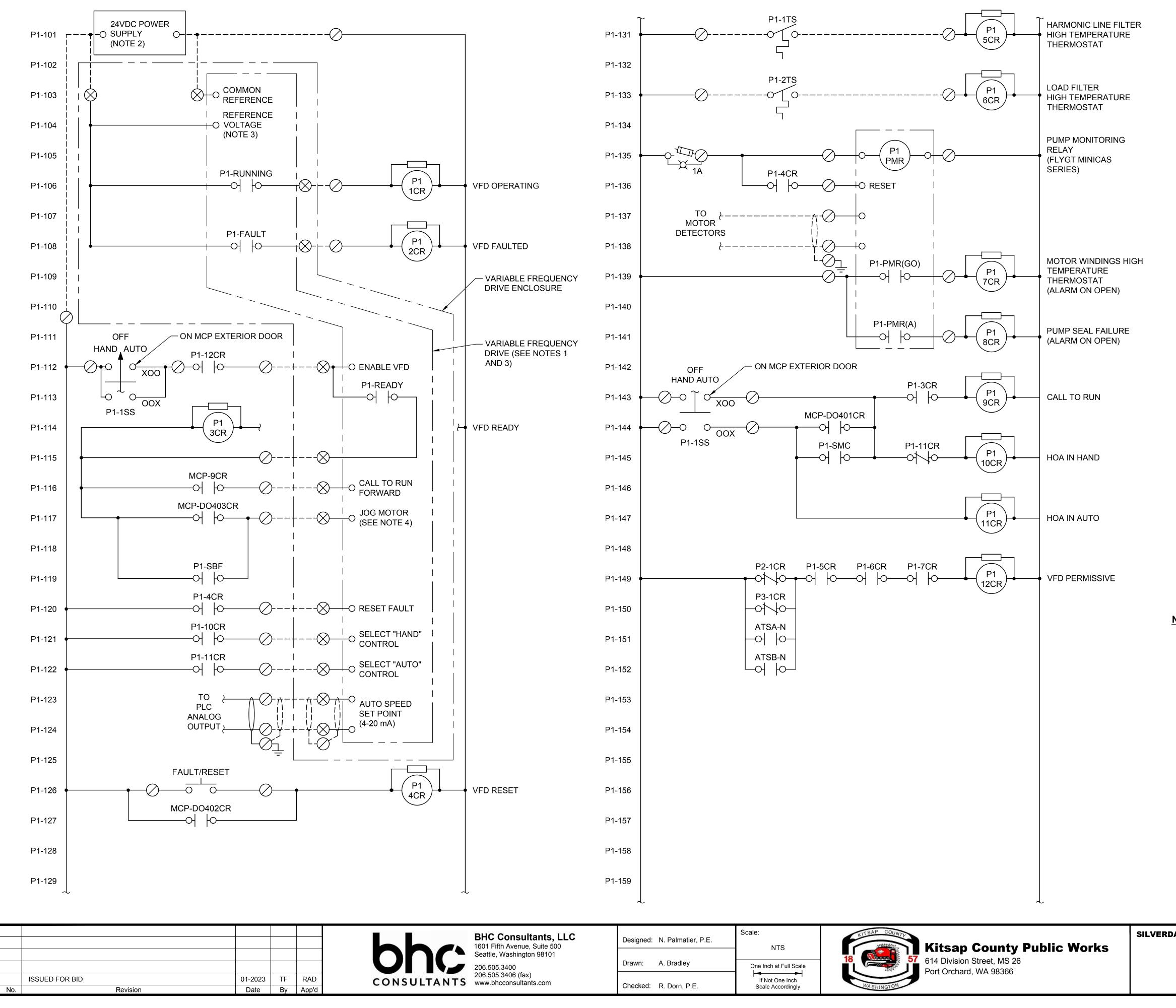
t <b>ants, LLC</b> Suite 500	Designed: N. Palmatier, P.E.	Scale: NTS	Kitsap County Public Works	•
n 98101	Drawn: A. Bradley	One Inch at Full Scale	18 57 614 Division Street, MS 26 Port Orchard, WA 98366	
ts.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON	



NFPA 820 ENVIRONMENT ALARM (CLOSED IS OK)

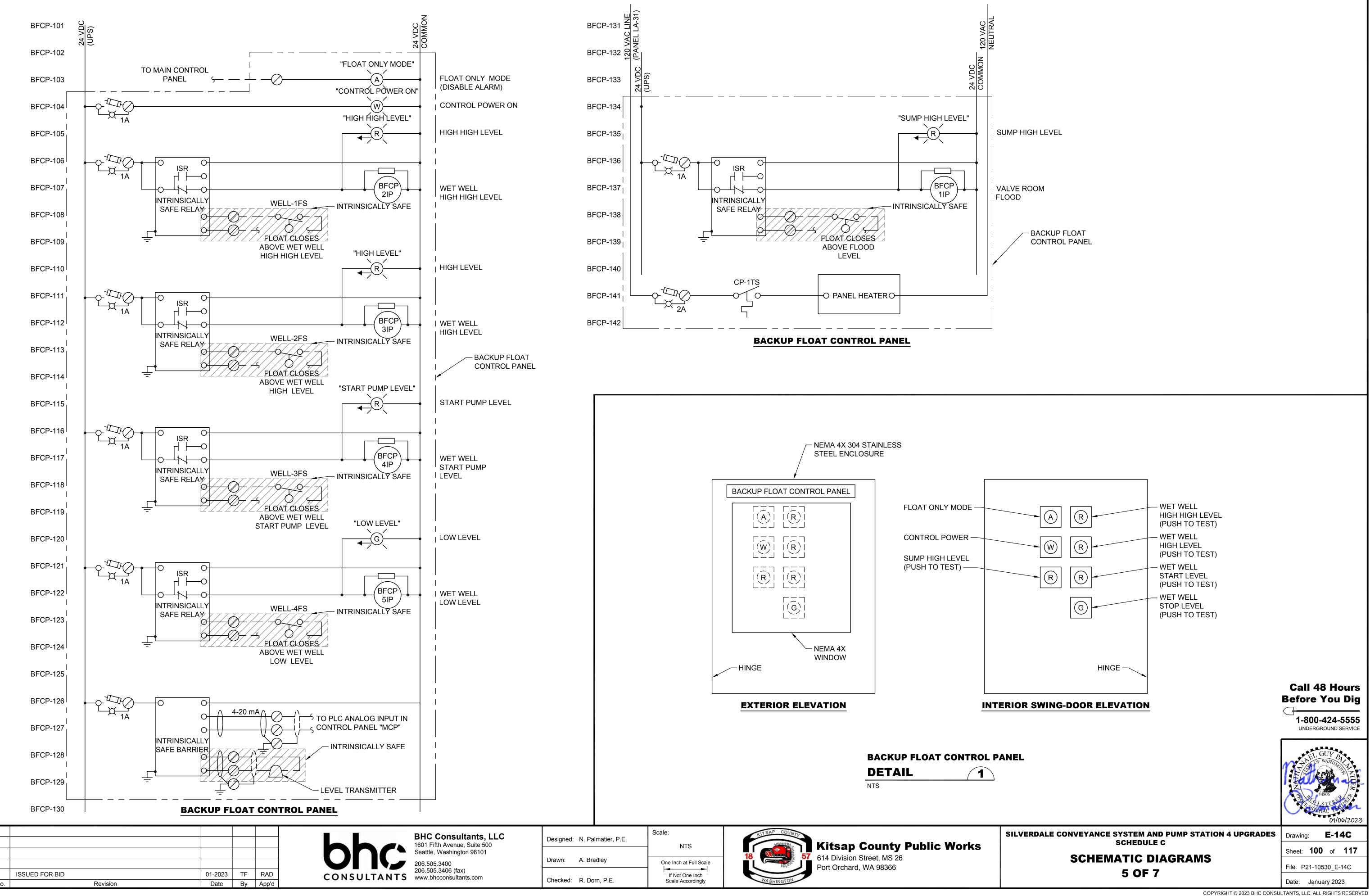
EXHAUST FAN

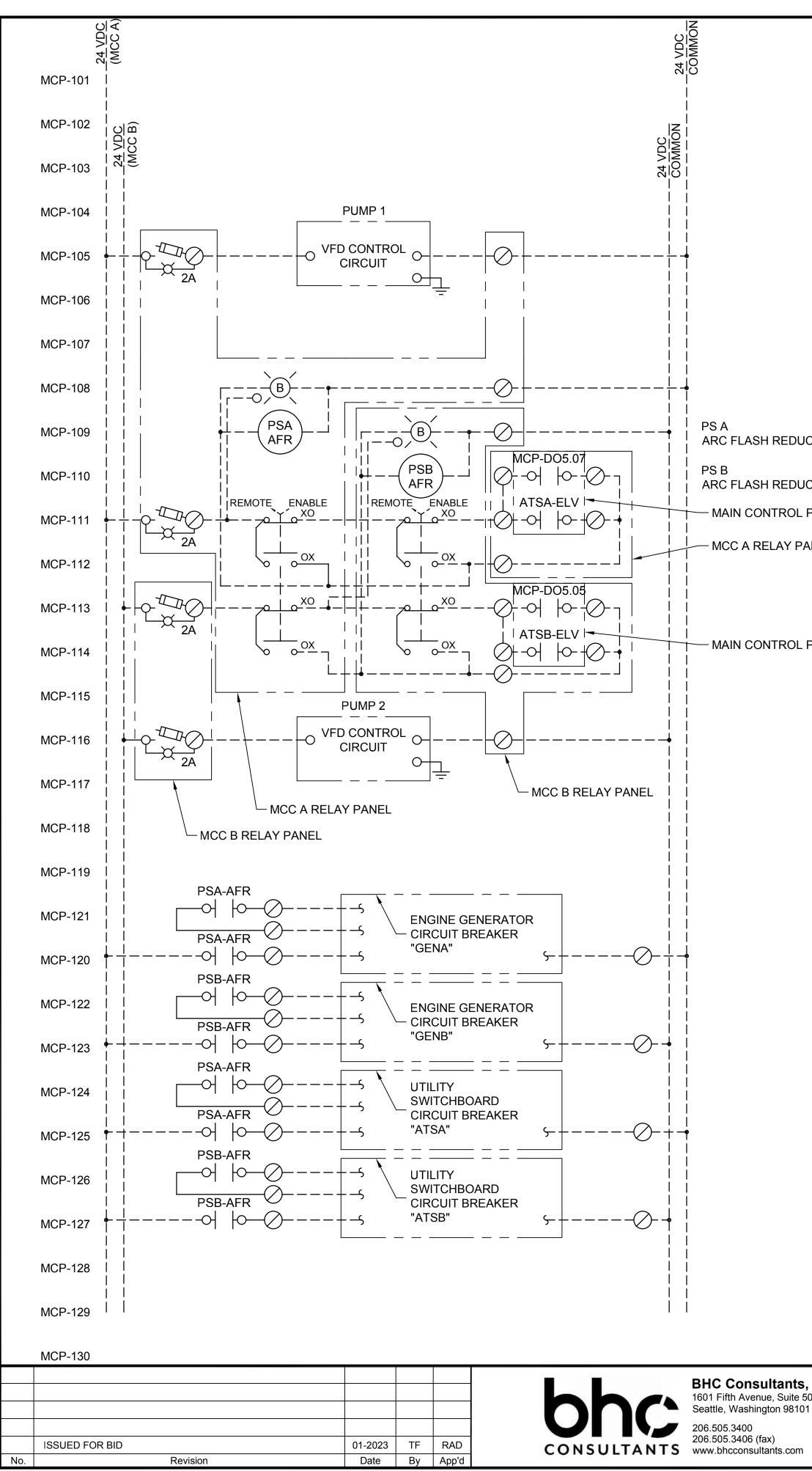
SUPPLY FAN AIR FLOW OK



u <b>ltants, LLC</b> ue, Suite 500 gton 98101	Designed: N. Palmatier, P.E.	Scale: NTS	Kitsap County Public Works
-	Drawn: A. Bradley	One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366
ax) tants.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON FOIL OICHAID, WA 98300

	R	ELAY	SCHEDULE	
TAG	EQUIPME #	ENT	DESCRIPTION	
TAG	EQUIPMENT			
ATSA-N	ATS A		CTED TO NORMAL POWER	
ATSC-N	ATS C	CONNE	CTED TO NORMAL POWER	
MCP-DO4010			LL TO RUN	
MCP-DO4020		RESET	-	
MCP-DO4030 P1-1CR	PUMP 1		IDE SPEED SETPOINT PERATING (RUNNING)	
P1-2CR	PUMP 1	VFD FA	· · · · · · · · · · · · · · · · · · ·	
P1-3CR	PUMP 1	VFD RE		
P1-4CR	PUMP 1	VFD RE		
P1-5CR	PUMP 1		NIC LINE FILTER THERMOSTA	-
P1-6CR P1-7CR	PUMP 1 PUMP 1		ILTER HIGH TEMPERATURE T	
P1-8CR	PUMP 1		SEAL FAILURE	
P1-9CR	PUMP 1	CALL T		
P1-10CR	PUMP 1	HOA IN		
P1-11CR P1-12CR	PUMP 1 PUMP 1		AUTO	
P1-SBF	PUMP 1		BY FLOAT	
MCP-DO4090		PLC CA	LL TO RUN	
MCP-DO4100		RESET		
MCP-DO4110 P2-1CR	CR PUMP 2 PUMP 2		IDE SPEED SETPOINT	
P2-1CR P2-2CR	PUMP 2 PUMP 2	VFD OF	PERATING (RUNNING) .ULTED	
P2-3CR	PUMP 2	VFD RE		
P2-4CR	PUMP 2	VFD RE		_
P2-5CR P2-6CR	PUMP 2 PUMP 2		NIC LINE FILTER THERMOSTA	
P2-0CR	PUMP 2		IG HIGH TEMPERATURE THER	
P2-8CR	PUMP 2	PUMP S	SEAL FAILURE	
P2-9CR	PUMP 2	CALL T		
P2-10CR P2-11CR	PUMP 2 PUMP 2	HOA IN		
P2-12CR	PUMP 2		RMISSIVE	
P2-SBF	PUMP 2	START	BY FLOAT	
	CR PUMP 3			
MCP-DO5020 MCP-DO5030		RESET		
P3-1CR	PUMP 3		PERATING (RUNNING)	
P3-2CR	PUMP 3	VFD FA		
P3-3CR P3-4CR	PUMP 3	VFD RE		
P3-4CR P3-5CR	PUMP 3 PUMP 3		NIC LINE FILTER THERMOSTA	Т
P3-6CR	PUMP 3		ILTER HIGH TEMPERATURE T	-
P3-7CR	PUMP 3		IG HIGH TEMPERATURE THER	MOSTAT
P3-8CR	PUMP 3	_	SEAL FAILURE	
P3-9CR P3-10CR	PUMP 3 PUMP 3	CALL T HOA IN		
P3-11CR	PUMP 3	HOA IN		
P3-12CR	PUMP 3		RMISSIVE	
P3-SBF	PUMP 3	START	BY FLOAT	
NOTES:				
WHICH MA	AKES AVAILABLE	E STATU	TIONS MODULE (FOR FUTURI S REGISTERS ON THE VFD O	
	TCP PROTOCOL			
	ATE THE CONTR Y PROVIDED.	OL REL	AY COILS TO MATCH THE VO	LTAGE
3. PROVIDE		יבסד רי	(TERNAL POWER FOR THE C	
		-	TERNAL POWER FOR THE CO	
THE FREC	QUENCY CONVE	RTER PO	OWER BUS.	
4. JOG MOT	OR WILL OVFRR	IDE THF	SELECTED SPEED SET	
POINT.				
5. WIRING F	OR SUBMERSIBI	E WAS	FEWATER PUMPS WILL BE	Call 48 Hours
SIMILAR T	O PUMP 1.	-		Before You Dig
				1-800-424-5555
				UNDERGROUND SERVICE
				EL GUY P
				1 Ennanal
				A4806 2 2
				STERING STER
				01/06/2023
DALE CONVEYA		_	MP STATION 4 UPGRADES	Drawing: E-13C
	SCHEDU	LEC		Sheet: <b>99</b> of <b>117</b>
SCH		DIAG	RAMS	
	4 OF	7		File: P21-10530_E-13C
		_		Date: January 2023
			COPYRIGHT © 2023 BHC CONSU	LTANTS, LLC. ALL RIGHTS RESERVED





REDUCTION REDUCTION ROL PANEL "MCP" AY PANEL TROL PANEL "MCP"	MCP-131 MCP-132 MCP-133 MCP-134 MCP-135 MCP-136 MCP-137 MCP-138 MCP-138 MCP-139 MCP-140 MCP-140 MCP-141 MCP-142 MCP-143 MCP-143 MCP-144 MCP-144 MCP-144 MCP-145	MANE PLATE PROTECTED MODE (PUSH TO TEST) REMOTE ENABLE CO MCC RELAY UNIT ELEVATION DETAIL NTS MINICONTROL PANEL MINICONTROL PANEL MINICONTROL PANEL MINICONTROL PANEL MINICONTROL PANEL CIRCUIT BIREAKER CIRCUIT BIREAKER
	MCP-150 MCP-151 MCP-152	ENGINE GENERATOR CIRCUIT BREAKER
	MCP-153 MCP-154 MCP-155	
	MCP-156 MCP-157 MCP-158 MCP-159	
t <b>ants, LLC</b> Suite 500 n 98101	MCP-160 Designed: N. Palmatier, P.E.	Scale: NTS NTS NTS NTS Scale: NTS NTS NTS NTS NTS NTS NTS NTS NTS NTS

Drawn: A. Bradley

Checked: R. Dorn, P.E.

One Inch at Full Scale

If Not One Inch

Scale Accordingly

614 Division Street, MS 26

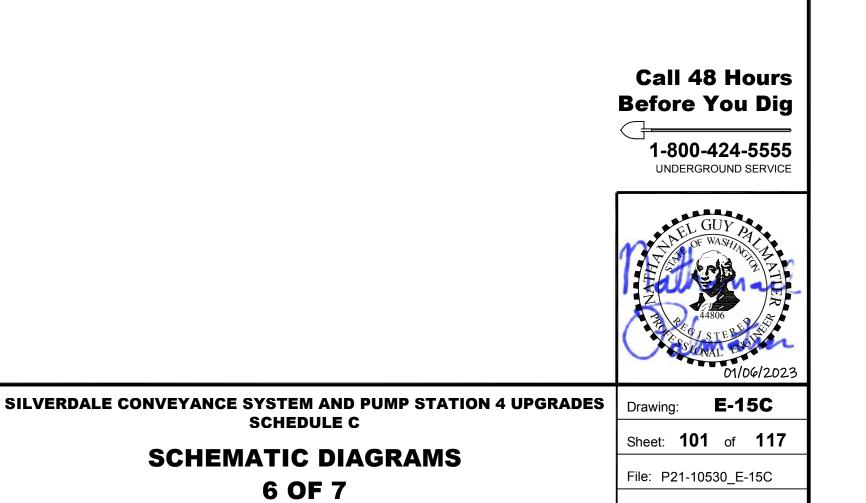
Port Orchard, WA 98366

### NOTES:

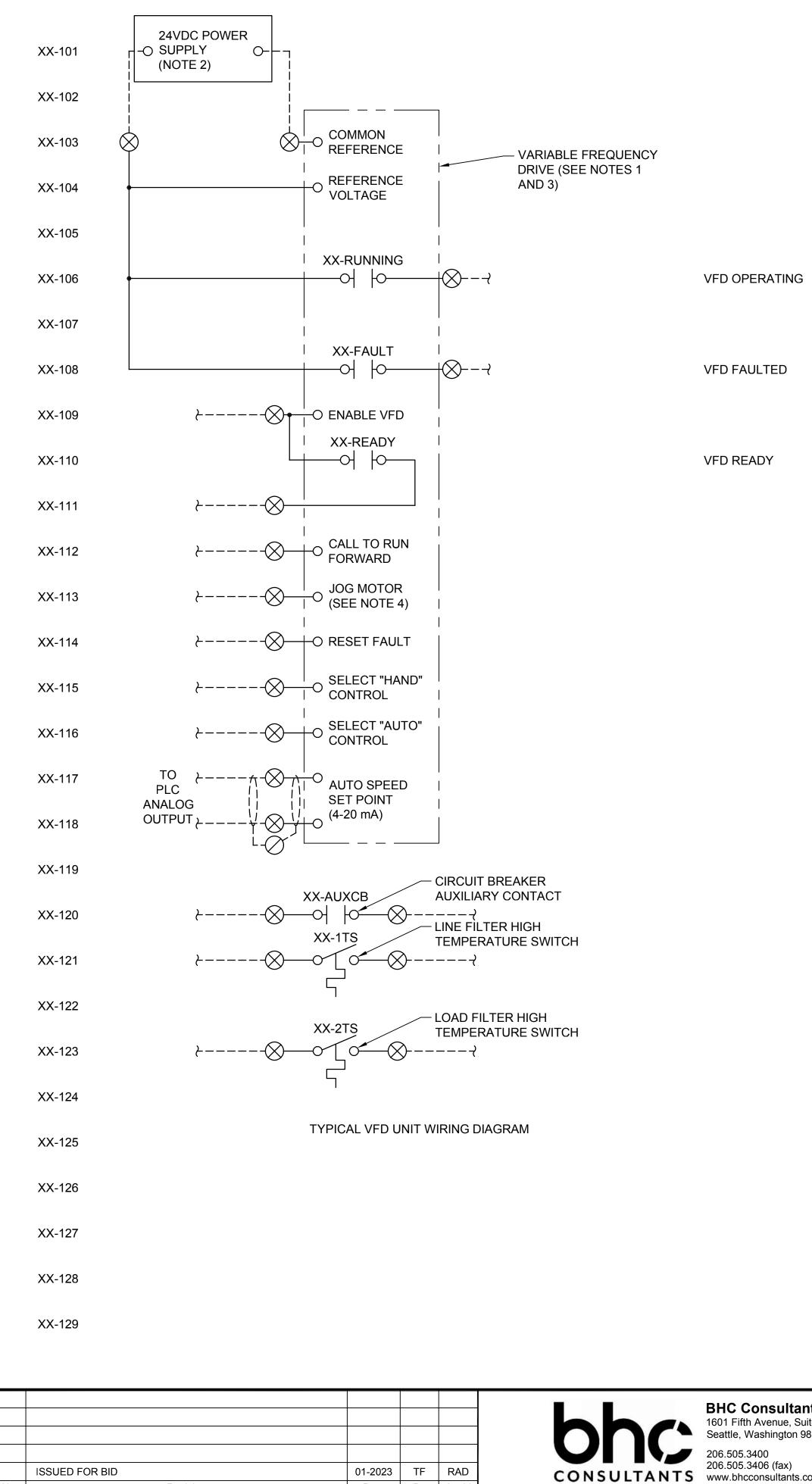
- 1. CONNECT TO 24VDC POWER SUPPLIES IN MCC A AND MCC B. 1.1. POWER SUPPLY PS A IS LOCATED IN MCC A.
  - 1.2. POWER SUPPLY PS B IS LOCATED IN MCC B.
- 2. ELEV ATS CONNECT TO THE ELEVATOR "PRE-TRANSFER" SIGNAL.

### 3. CONNECT TO CIRCUIT BREAKER'S ARC FLASH REDUCTION MODULE. ARRANGE CONTACTS FOR EITHER DRY CONTACT OR POWERED FROM MCC A OR MCC B 24VDC POWER SUPPLY.

- a. ATS A (FROM UTILITY) FEEDER
- b. ATS B (FROM UTILITY) FEEDER c. ATS A (FROM GENERATOR) FEEDER
- d. ATS B (FROM GENERATOR) FEEDER



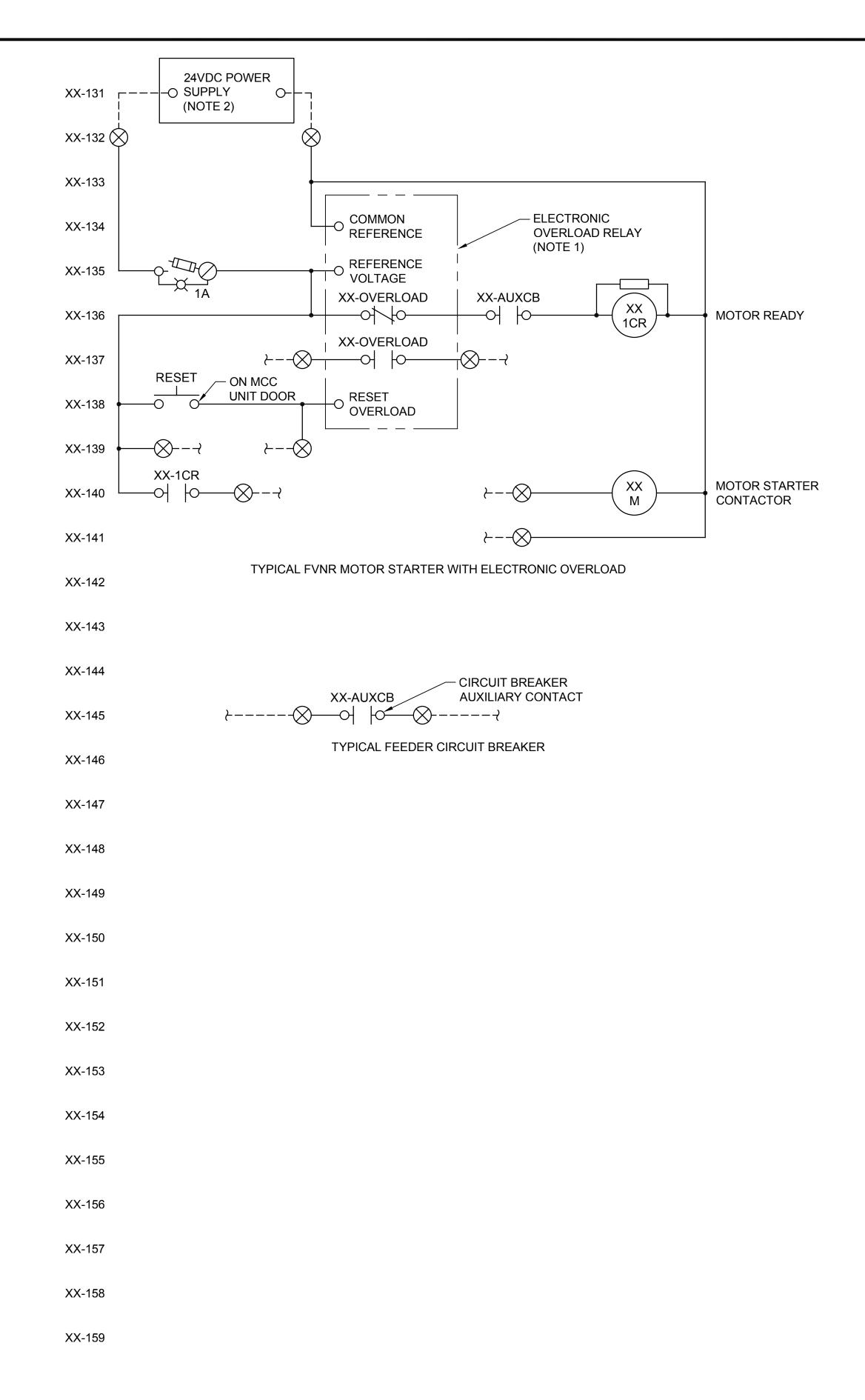
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Date By App'd

Revision

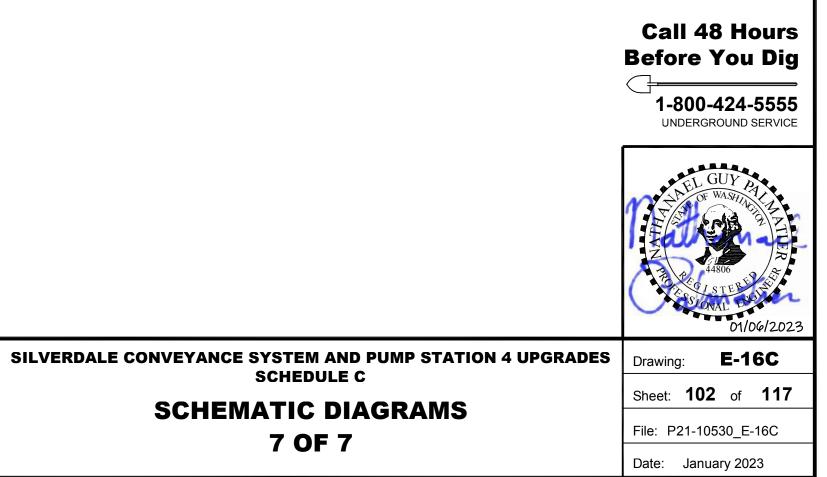
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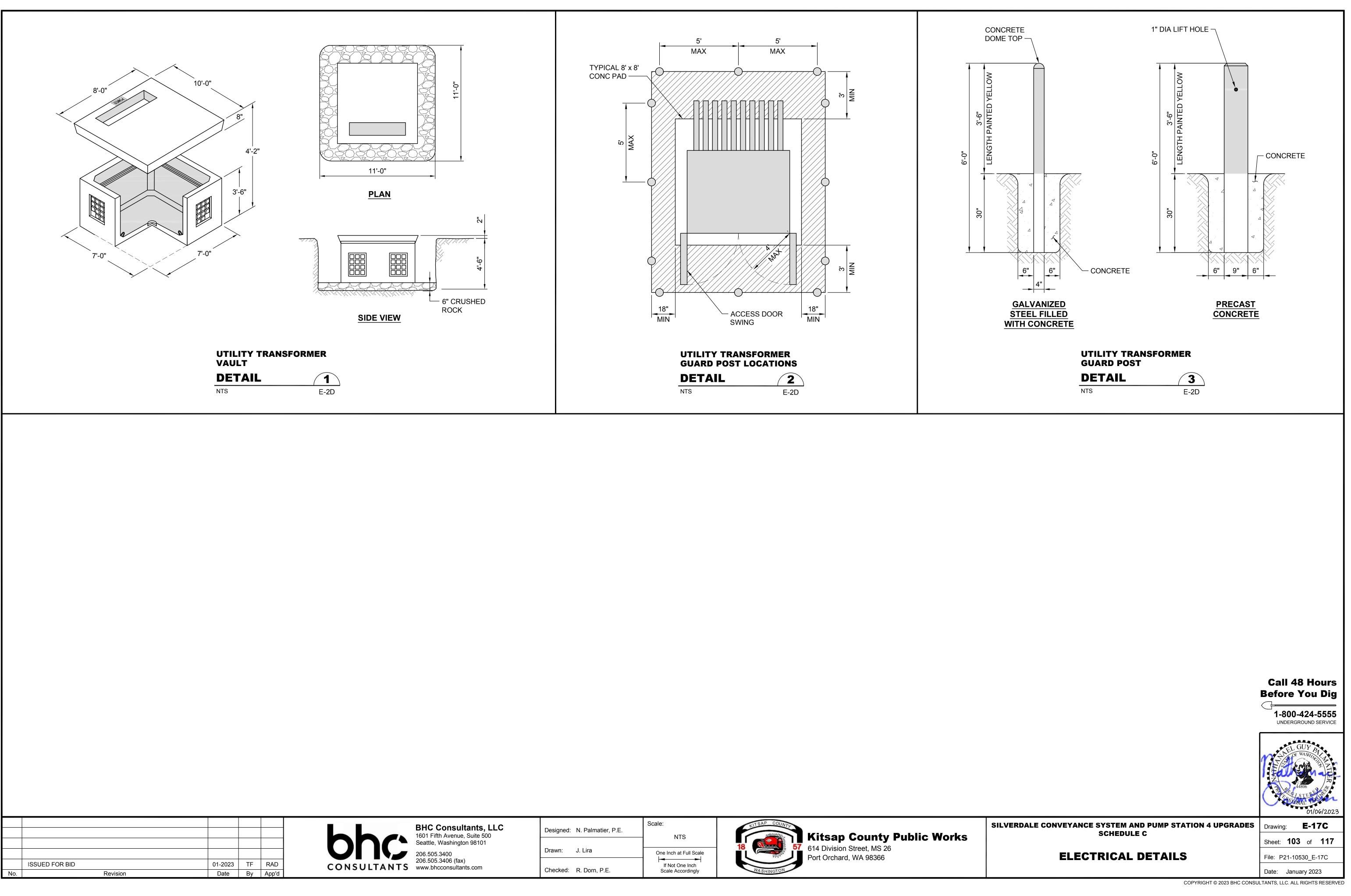


tants, LLC Suite 500 on 98101	Designed: N. Palmatier, P.E.	Scale: NTS	Kitsap County Public Works
	Drawn: N. Palmatier, P.E.	One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366
) its.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WA SHINGTON

### NOTES:

- 1. PROVIDE NETWORK COMMUNICATIONS MODULE (FOR FUTURE USE) WHICH MAKES AVAILABLE STATUS REGISTERS OVER AN EHTERNET NETWORK USING ROCKWELL AUTOMATION ETHERNET IP OR MODBUS TCP PROTOCOL.
- 2. COORDINATE THE CONTROL RELAY COILS TO MATCH THE VOLTAGE ACTUALLY PROVIDED.
- 3. PROVIDE MODULE TO ACCEPT EXTERNAL POWER FOR THE CONTROL FUNCTIONS OF THE VFD; THE EXTERNAL POWER SHALL NOT CHARGE THE FREQUENCY CONVERTER POWER BUS.
- 4. JOG MOTOR WILL OVERRIDE THE SELECTED SPEED SET POINT.
- 5. WIRING FOR SUBMERSIBLE WASTEWATER PUMPS WILL BE SIMILAR TO PUMP 1.
- 6. FIELD WIRING FROM THE MCC UNITS ROUTE TO THE BUILDING MAIN CONTROL PANEL.



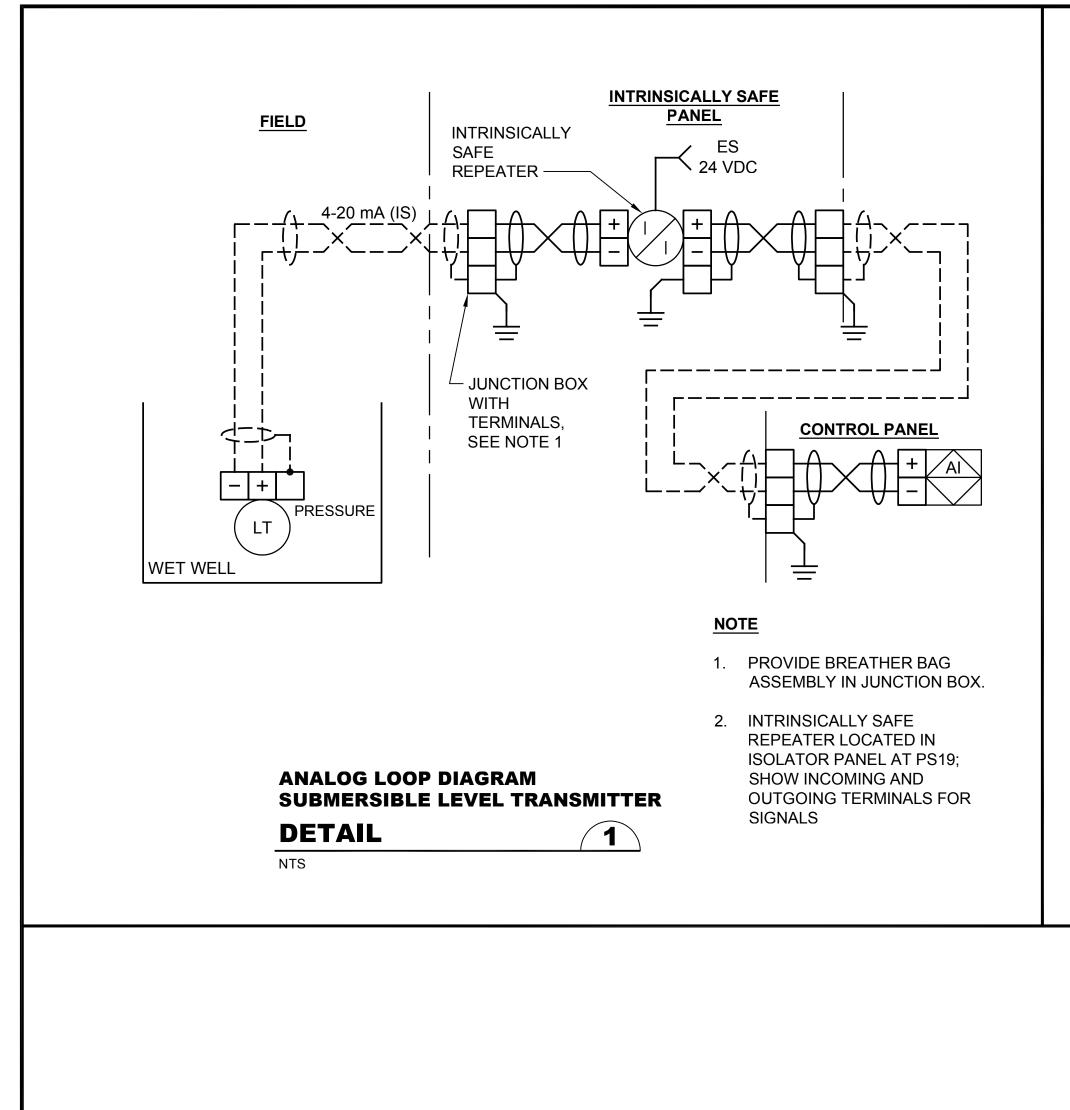




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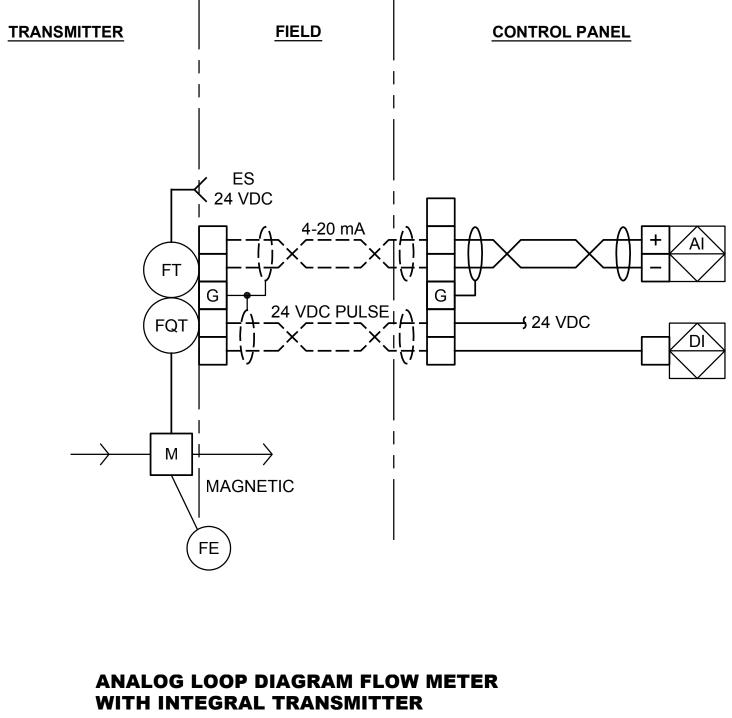
sultants, LLC enue, Suite 500	Designed: N. Palmatier, P.E.	Scale: NTS	Kitsap County Public W
hington 98101	Drawn: J. Lira	One Inch at Full Scale	18 614 Division Street, MS 26 Port Orchard, WA 98366
6 (fax) sultants.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON



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		ISSUED FOR BID	01-2023	TF	RAD	
	No.	Revision	Date	By	App'd	



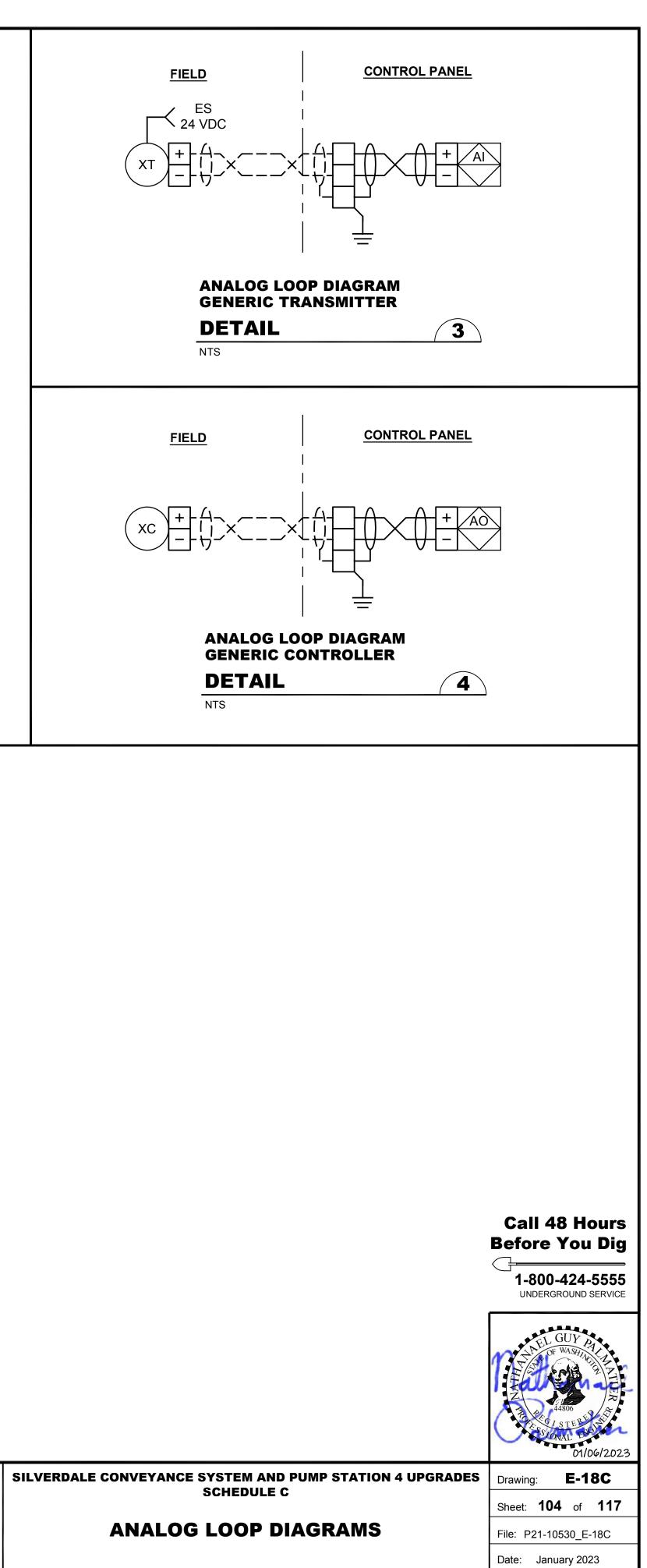
BHC Consult 1601 Fifth Avenue, eattle, Washingto

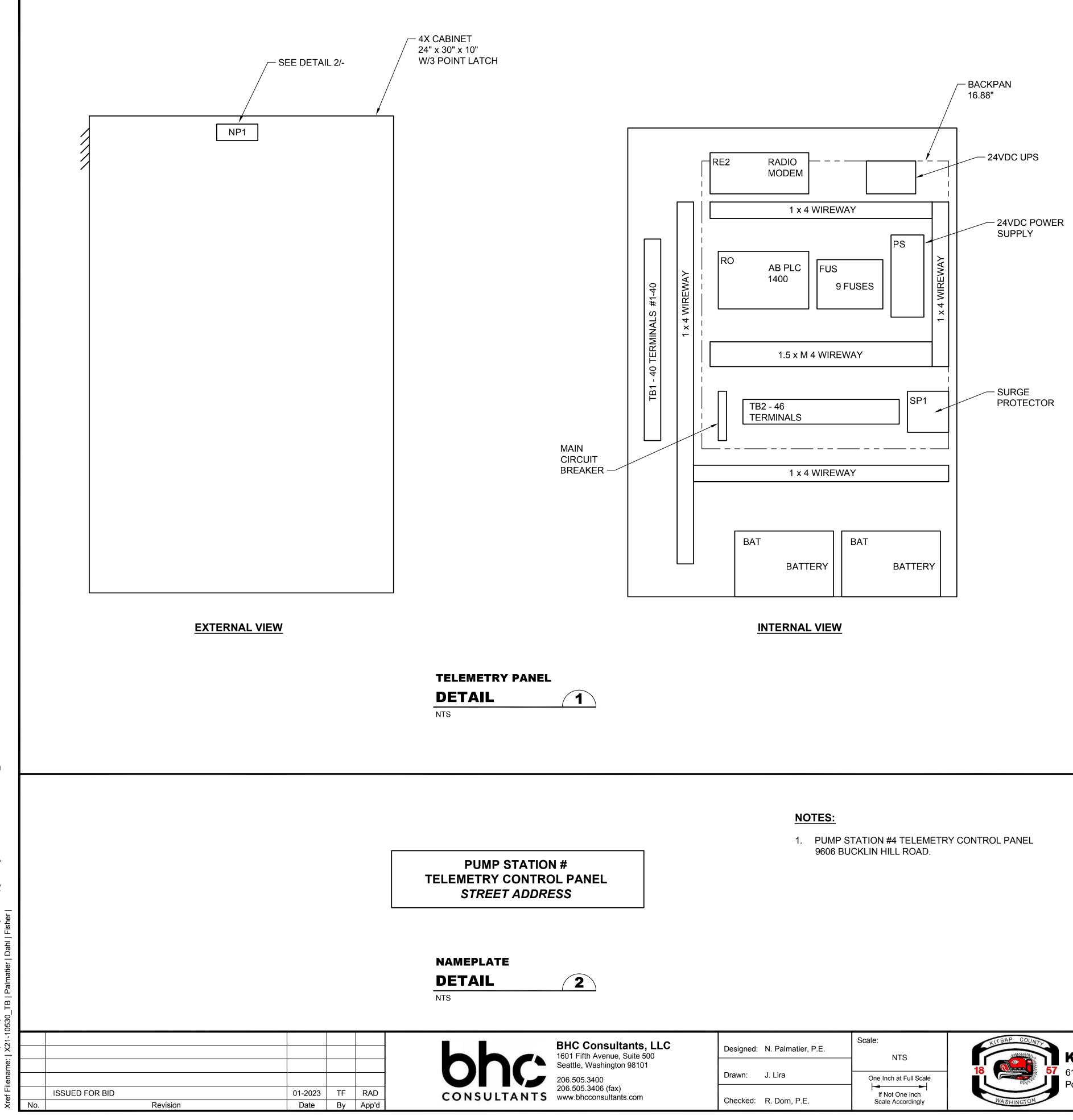


DETAIL	2
NTS	

<b>Iltants, LLC</b> ie, Suite 500 gton 98101	Designed: N. Palmatier, P.E.	Scale: NTS	KITSAP COUNTY
	Drawn: J. Lira	One Inch at Full Scale	<b>18 57</b> 614
ax) ants.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON Por

**Kitsap County Public Works** 14 Division Street, MS 26 Port Orchard, WA 98366





X2

nts, LLC	Docignod	N. Palmatier, P.E.	Scale:	
ite 500 8101			NTS	
	Drawn:	J. Lira	One Inch at Full Scale	
om	Checked:	R. Dorn, P.E.	If Not One Inch Scale Accordingly	



- SHALL BE PROVIDED WITHOUT SUBSTITUTIONS.

	TELEMETRY PANEL MATERIALS - BOM									
TAG	SUBSITUTION ALLOWED	DESCRIPTION	MANUFACTURER	PART NUMBER						
RO	NO	MICROLOGIX 1400, 24VDC (20) DC INPUTS (6) DC OUTPUTS, (6) RELAY OUTPUTS (4) ANALOG INPUTS (2) ANAKOG INPUTS	ALLEN BRADLEY	1766-L32BXBA						
RE1	NO	RADIO/MODEM 136-174 MHZ, 10-30VDC, 1.5A 1 WATT @ FREQUENCY CALAMP VIPER SC-100 IP 250-5								
CBL1		CAT 5 ETHERNET CABLE								
CBL2		COAX ANTENNA CABLE								
SP1		SURGE PROTECTOR		AS SPECIFIED						
BAT	NO	UPS BATTERIES	WERKER	WKA12-12F2						
PS	NO	90W 24VDC POWER SUPPLY	IDEC	IDECPS5R-VE24						
FUS		FUSED DISCONNECTS WITH BLOWN FUSE INDICATORS		AS SPECIFIED						
LA	NO	RADIO LIGHTNING ARRESTOR	POLY PHASER	DT-NFF						
UPS	NO	BATTERY VOLTAGE UPS RELAY	TRANSTRONICS	BVUPS24PFA						
ANT	NO	RADIO ANTENNA	KATHERIEN	YA7-166						
RE2	NO	CELL ETHERNET RADIO MODEM	CRADLEPOINT	IBR900-600M-NA						
REC		RADIO ENCLOSURE WITH 110VAC OUTLET AND HEATER	L-COMM	NB141207-100-UL						
EMCL	NO	TELEMETRY PANEL ENCLOSURE AND SUB-PANEL	STAHL	J3024HPL						

**Kitsap County Public Works** 614 Division Street, MS 26 Port Orchard, WA 98366

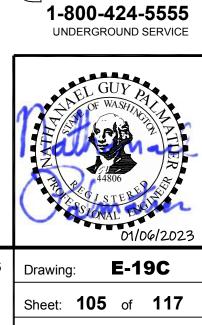
1. THE TELEMETRY PANEL LAYOUT AND DEVICES AS SHOWN ON THE PLANS ARE INTENDED TO BE SPECIFIC IN THE DESIGN AND CONSTRUCTION SO AS TO BE IDENTICAL TO THE COUNTY'S STANDARD TELEMETRY PANEL. COORDINATE WITH THE OWNER FOR SPECIFIC DETAILS SUCH AS WIRE AND TERMINAL NUMBERING, BACKPAN LAYOUT, ETC.

2. THE BACKPAN SIZE AND HOLE PATTERN/PLACEMENT SHALL BE COORDINATED WITH THE OWNER SO THAT BACKPANS CAN BE EXCHANGED WITH EXISTING PANELS.

3. THE COUNTY WILL PROVIDE THE ACTUAL STREET ADDRESS TO THE SUCCESSFUL CONTRACTOR AFTER AWARD. USE THE ACTUAL STREET ADDRESS.

4. THE FOLLOWING COMPONENTS ARE COUNTY STANDARD FOR TELEMETRY PANELS AND



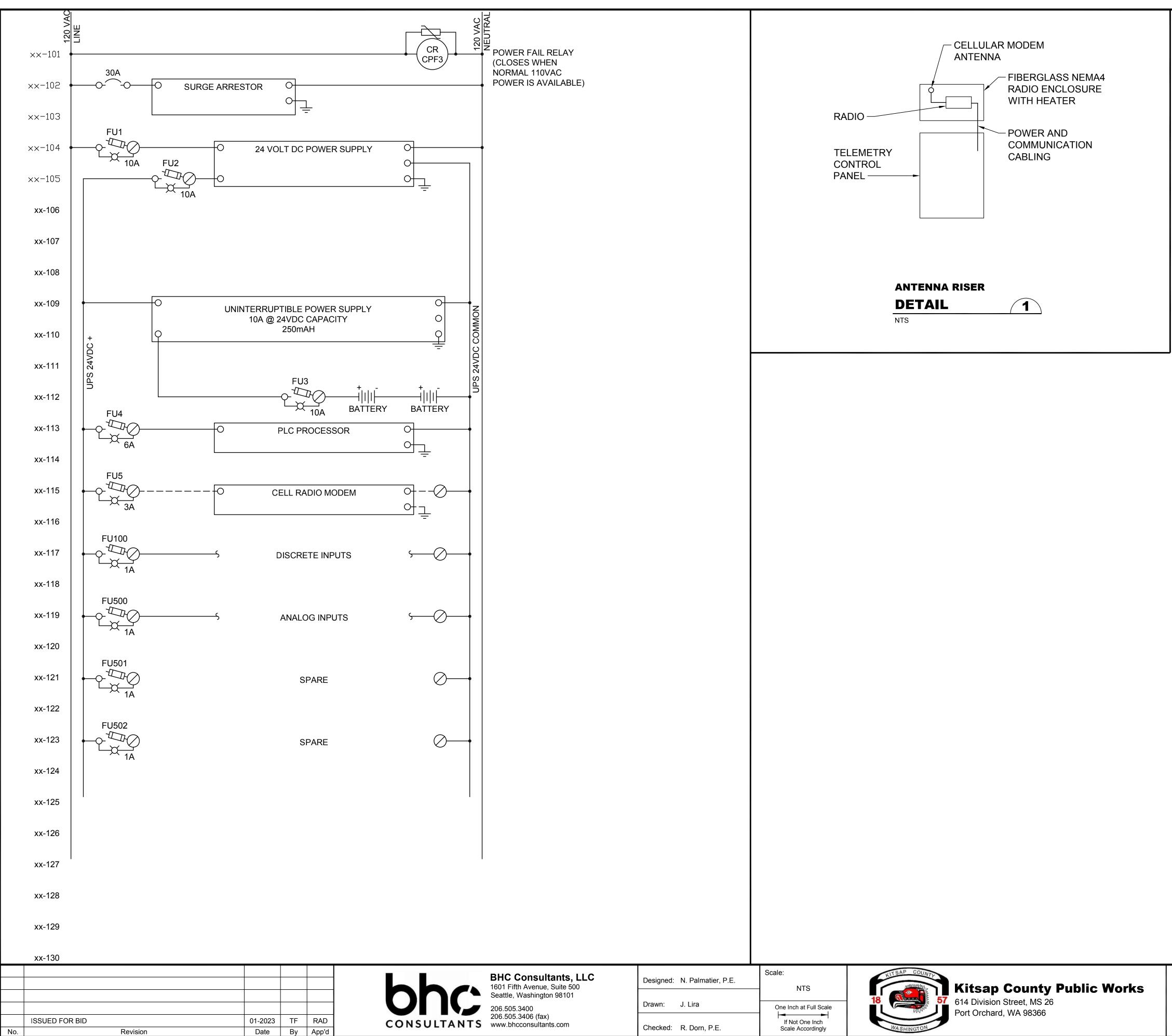


File: P21-10530\_E-19C

SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C

> **TELEMETRY CONTROL PANEL ELEVATIONS**

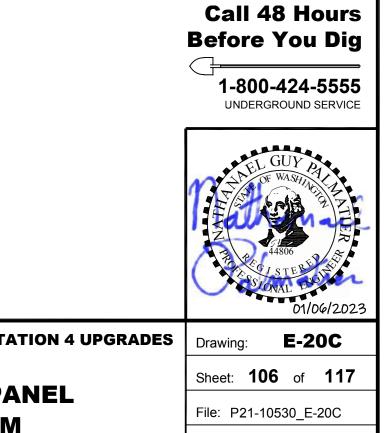
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### NOTES:

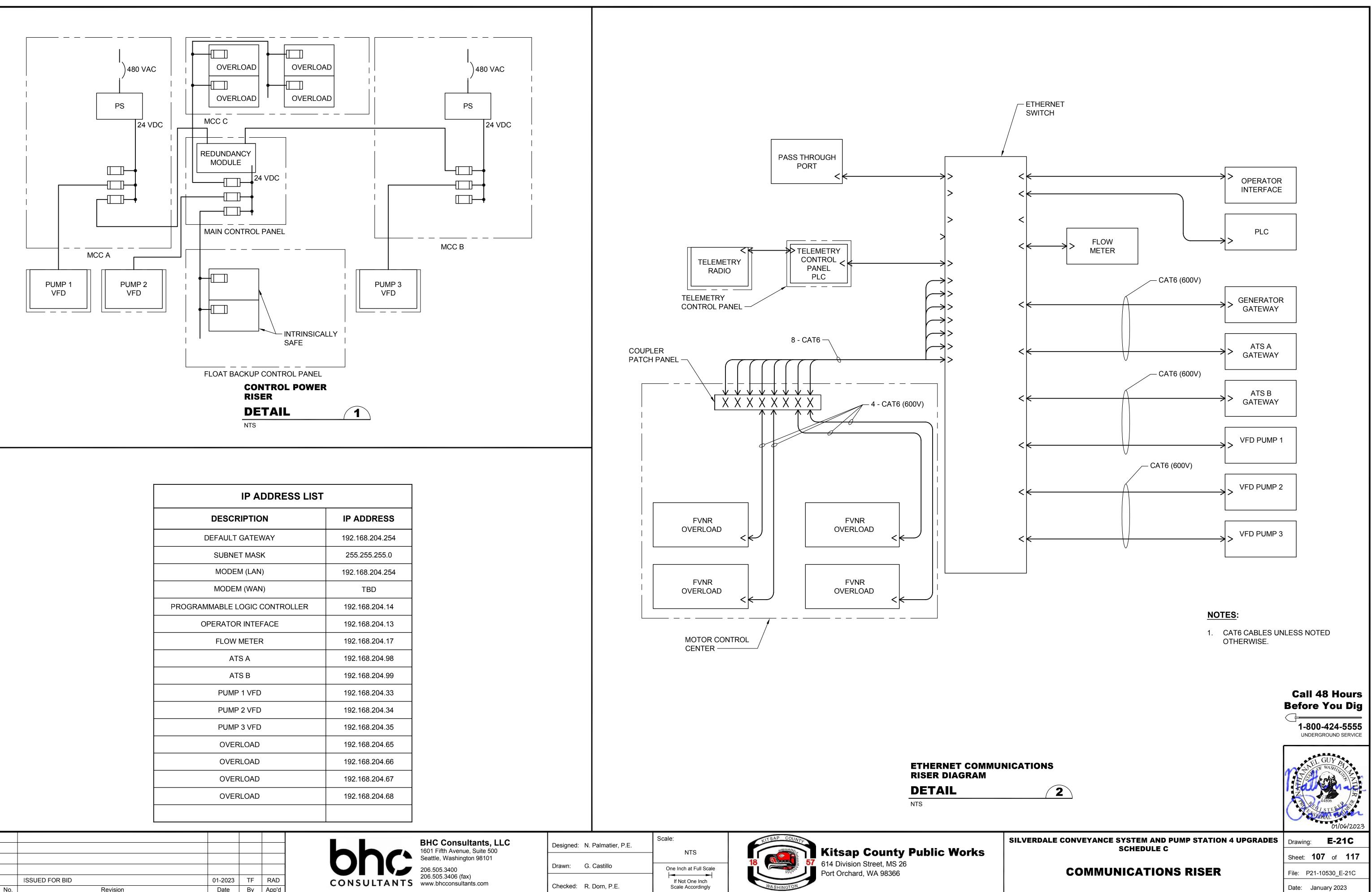
- \* PROVIDE CIRCUIT INDEX OR COPY OF POWER CIRCUIT WIRING DIAGRAM FOR ALL DISTRIBUTION BREAKERS AND DC DISTRIBUTION FUSES - LAMINATE AND MOUNT ON INSIDE CABINET DOOR.
- \*\* PROVIDE ALL POWER FAIL AS MONITORING CIRCUITS. NORMALLY OPEN CONTACTS THAT ARE HELD CLOSED AND OPEN WHEN POWER FAILS.
- \*\*\* PROVIDE (FUTURE POWER FAIL ALARM OUTPUTS) TO BE A NORMALLY ENERGIZED RELAY THAT WILL DE-ENERGIZE FOR ANY COMMON ALARM CONDITION SO THAT TELEMETRY CONTACT INPUT WILL BE NORMALLY CLOSED AND OPEN ON ALARM CONDITION.



SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C

> **TELEMETRY CONTROL PANEL** SCHEMATIC DIAGRAM

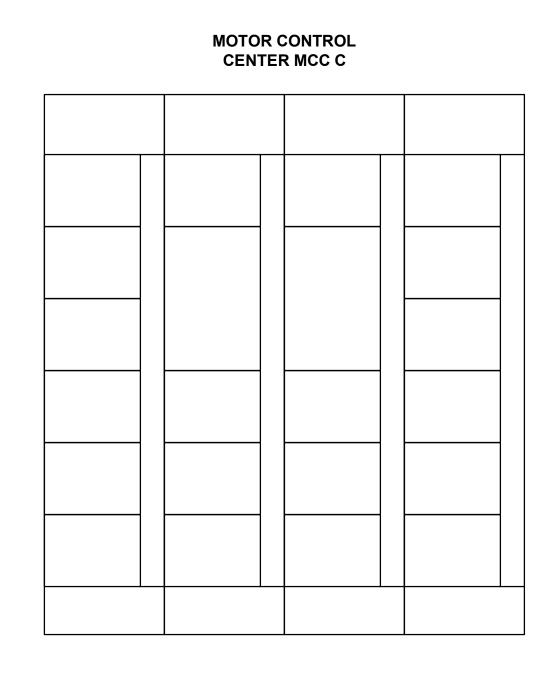
Date: January 2023



IP ADDRESS LIST								
DESCRIPTION	IP ADDRESS							
DEFAULT GATEWAY	192.168.204.254							
SUBNET MASK	255.255.255.0							
MODEM (LAN)	192.168.204.254							
MODEM (WAN)	TBD							
PROGRAMMABLE LOGIC CONTROLLER	192.168.204.14							
OPERATOR INTEFACE	192.168.204.13							
FLOW METER	192.168.204.17							
ATS A	192.168.204.98							
ATS B	192.168.204.99							
PUMP 1 VFD	192.168.204.33							
PUMP 2 VFD	192.168.204.34							
PUMP 3 VFD	192.168.204.35							
OVERLOAD	192.168.204.65							
OVERLOAD	192.168.204.66							
OVERLOAD	192.168.204.67							
OVERLOAD	192.168.204.68							

3 4 Upgr\Design\d f relim | Dahl | Fisher Silverdale Convey-PS 4 matier | X21-10530\_Prel county/21-10530 -10530\_TB | Palr \Kitsap Co ne: | X21-′ Path: S: Xref Fil





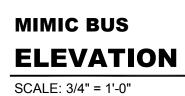
MOTOR CONTROL CENTER MCC B

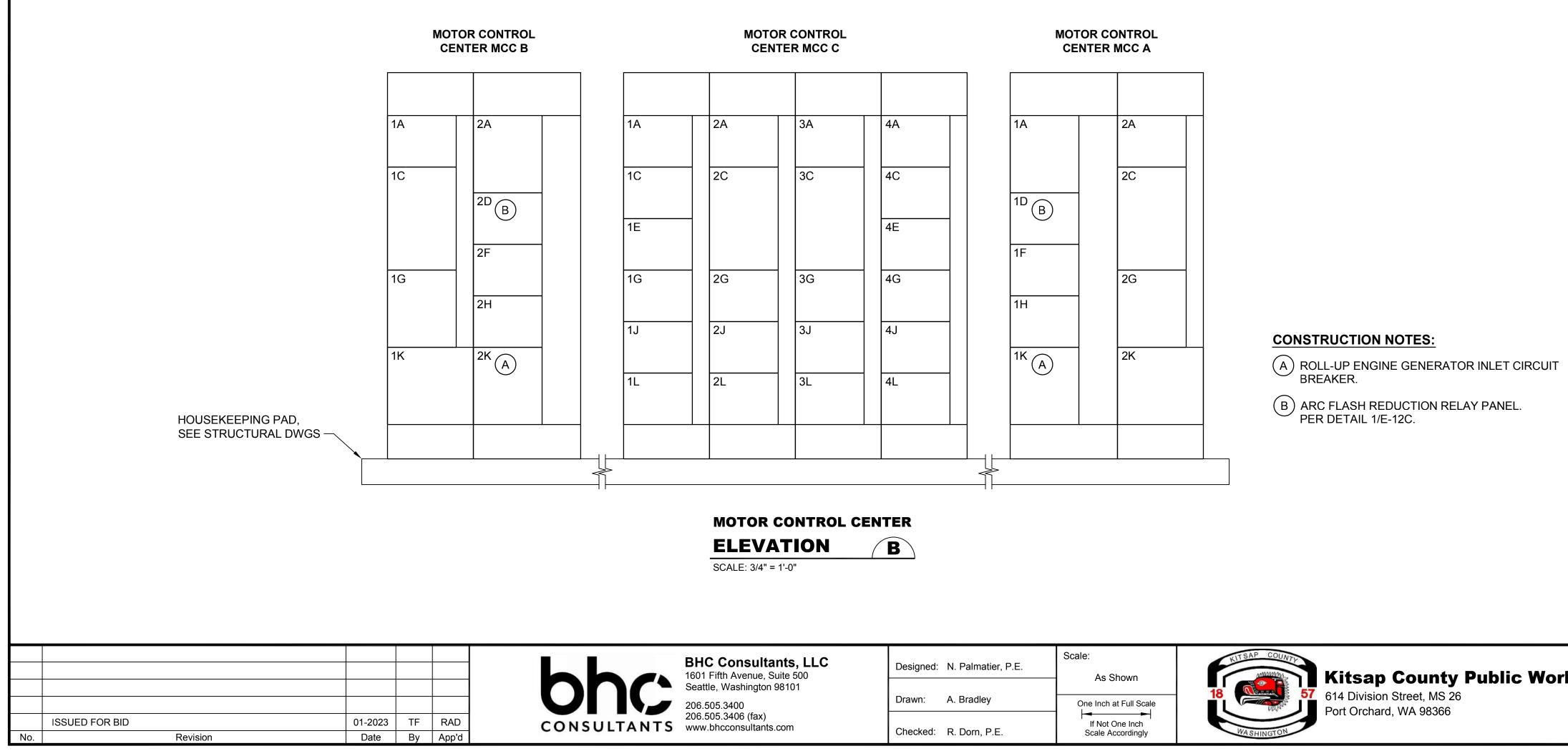
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( K )

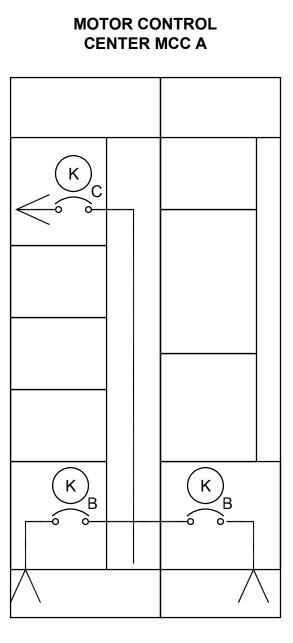
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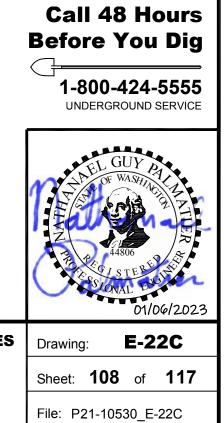
AD verdale Convey-PS tier | Dahl | Fisher | ounty/21-10530 10530\_TB | Palı Kitsap ( ie: | X21 S II Path: Xref



# 

Kitsap County Public Works 614 Division Street, MS 26 Port Orchard, WA 98366

MCC ELEVATION								
MCC A	2	Α						
MCC A	2	С	PUMP 1 VFD	BRANCH				
MCC A	2	G	24VDC POWER SUPPLY	MCC A				
MCC A	2	К	MAIN CIRCUIT BREAKER	KIRK KEY A				
MCC A	1	Α	MCC C BRANCH	KIRK KEY C				
MCC A	1	D	ARC FLASH REDUCTION					
MCC A	1	F						
MCC A	1	н						
MCC A	1	К	MAIN CIRCUIT BREAKER	KIRK KEY A				
MCC C	1	Α	MAIN LUGS ONLY	FROM MCC A				
MCC C	1	С	2HP SPARE STARTER					
MCC C	1	E	SPARE CIRCUIT BREAKER	125A				
MCC C	1	G	1HP SPARE STARTER					
MCC C	1	J	TRANSFORMER "TLA"					
MCC C	1	L						
MCC C	2	Α						
MCC C	2	С	PUMP 2 VFD	BRANCH				
MCC C	2	G	SPARE CIRCUIT BREAKER	125A				
MCC C	2	J						
MCC C	2	L						
MCC C	3	Α						
MCC C	3	С	SPARE VFD	BRANCH				
MCC C	3	G	SUMP PUMP					
MCC C	3	J	2HP SPARE STARTER					
MCC C	3	L						
MCC C	4	Α	MAIN LUGS ONLY	FROM MCC B				
MCC C	4	С						
MCC C	4	Е						
MCC C	4	G						
MCC C	4	J						
MCC C	4	L						
MCC B	2	A	MCC BRANCH	KIRK KEY C				
MCC B	2	D	ARC FLASH REDUCTION					
MCC B	2	F						
MCC B	2	н						
MCC B	2	К	MAIN CIRCUIT BREAKER	KIRK KEY B				
MCC B	1	A						
MCC B	1	С	PUMP 3 VFD	BRANCH				
MCC B	1	G	24VDC POWER SUPPLY	MCC A				
MCC B	1	К	MAIN CIRCUIT BREAKER	KIRK KEY B				

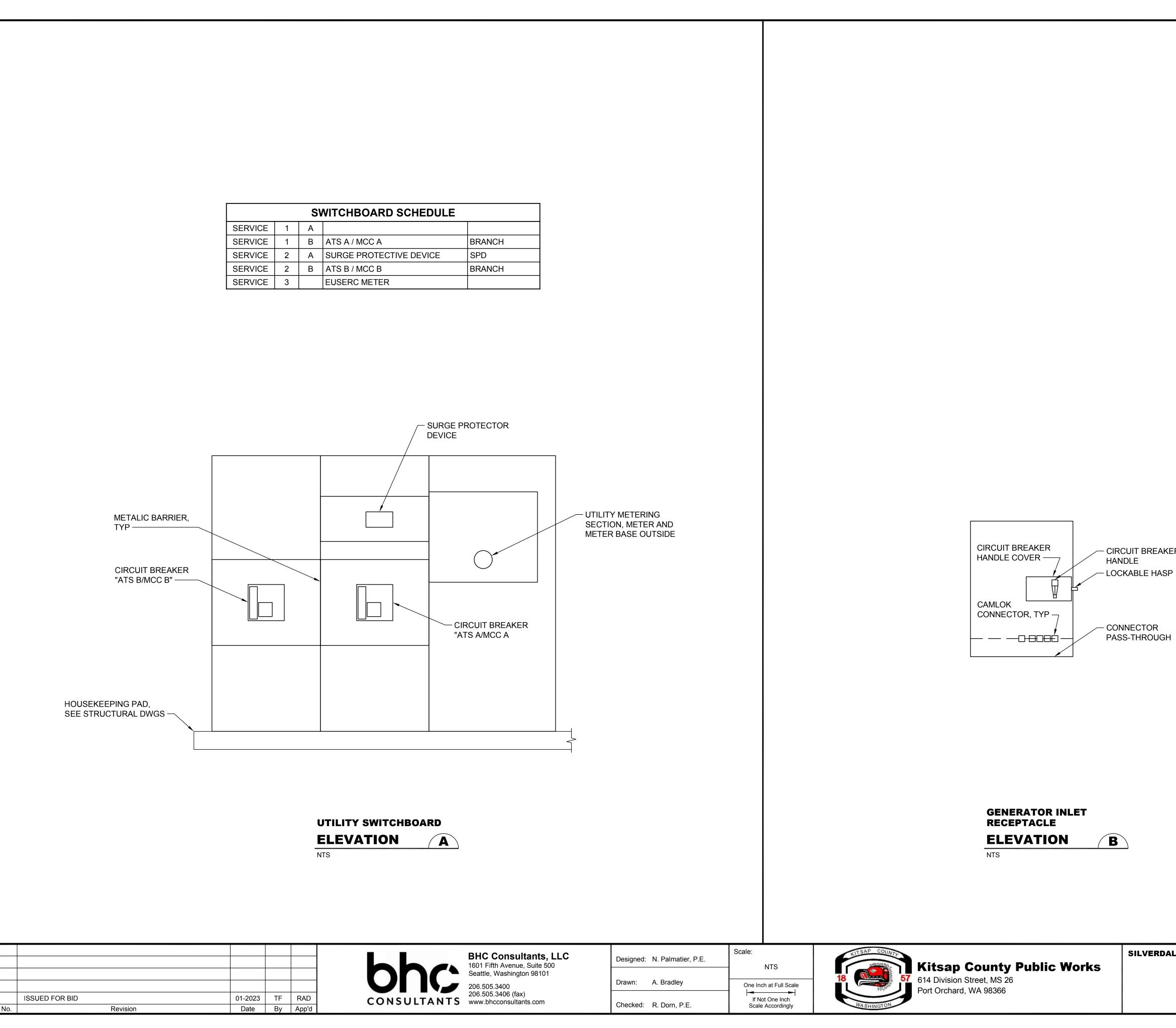


Date: January 2023

SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C

# **MCC ELEVATIONS**

	SWITCHBOARD SCHEDULE										
SERVICE	1	A									
SERVICE	1	В	ATS A / MCC A	BRANCH							
SERVICE	2	A	SURGE PROTECTIVE DEVICE	SPD							
SERVICE	2	В	ATS B / MCC B	BRANCH							
SERVICE	3		EUSERC METER								



Q verdale Conve tier | Dahl | Fish unty/21-1053 0530\_TB | Pa Kitsap ( ie: | X21 S II Path: Xref

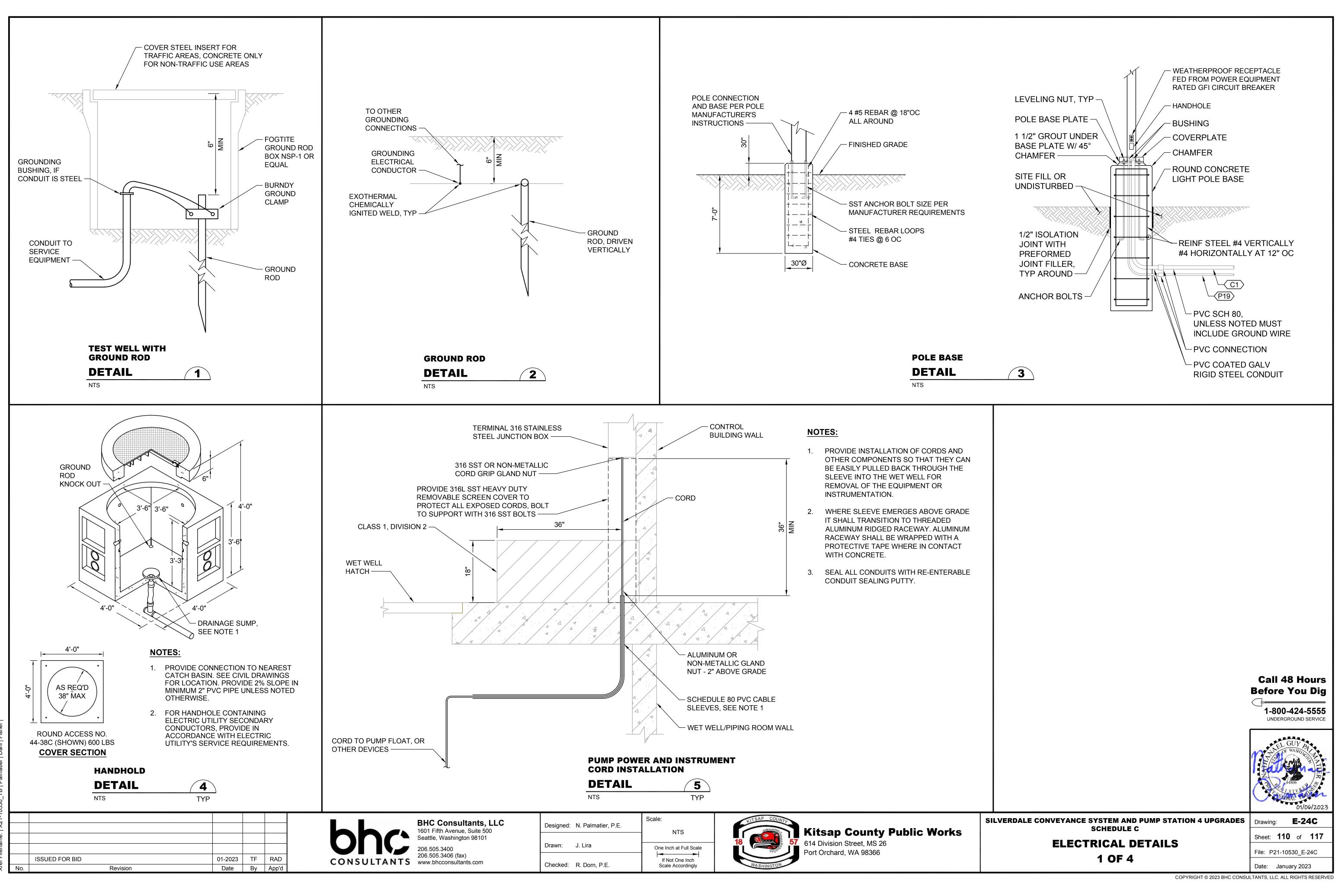
- CIRCUIT BREAKER



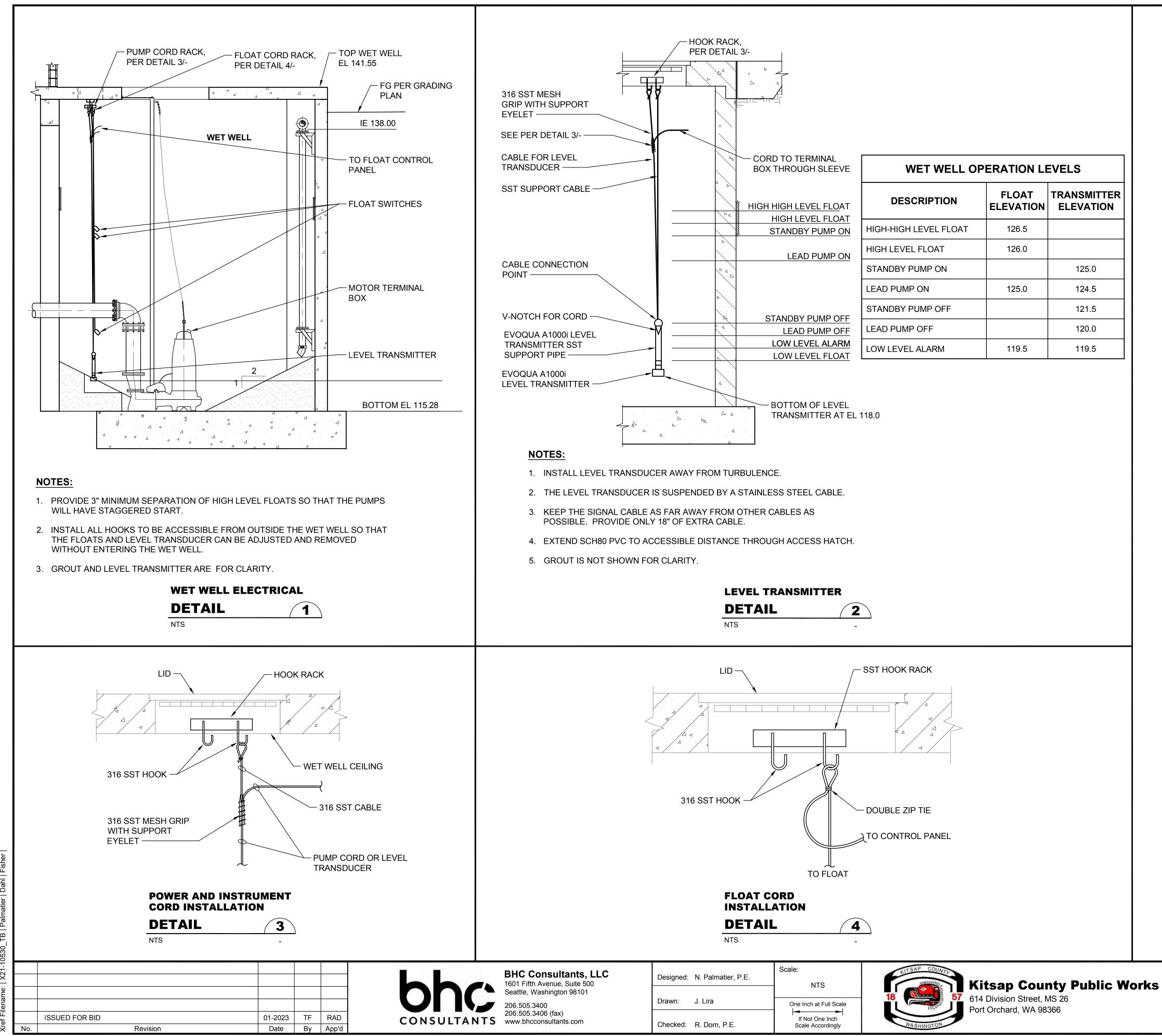
SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C

# SWITCHBOARD ELEVATIONS

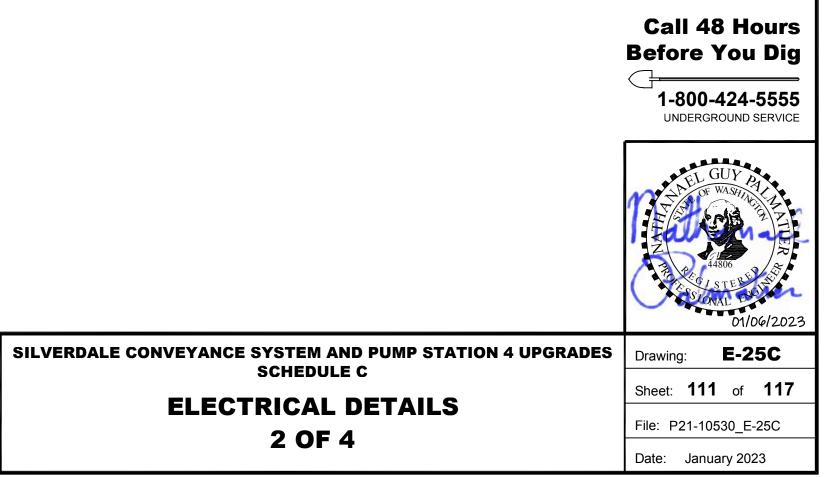
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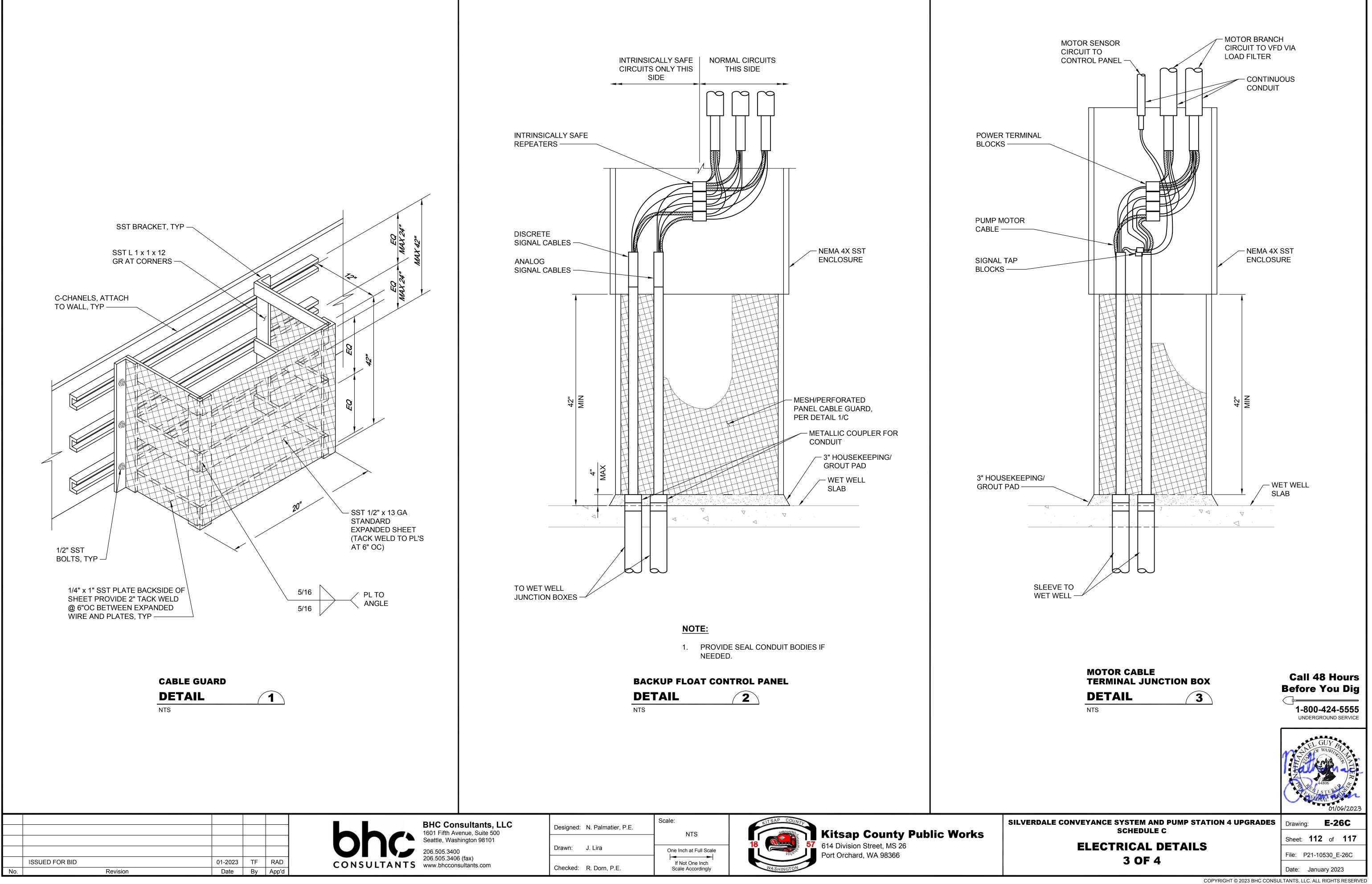


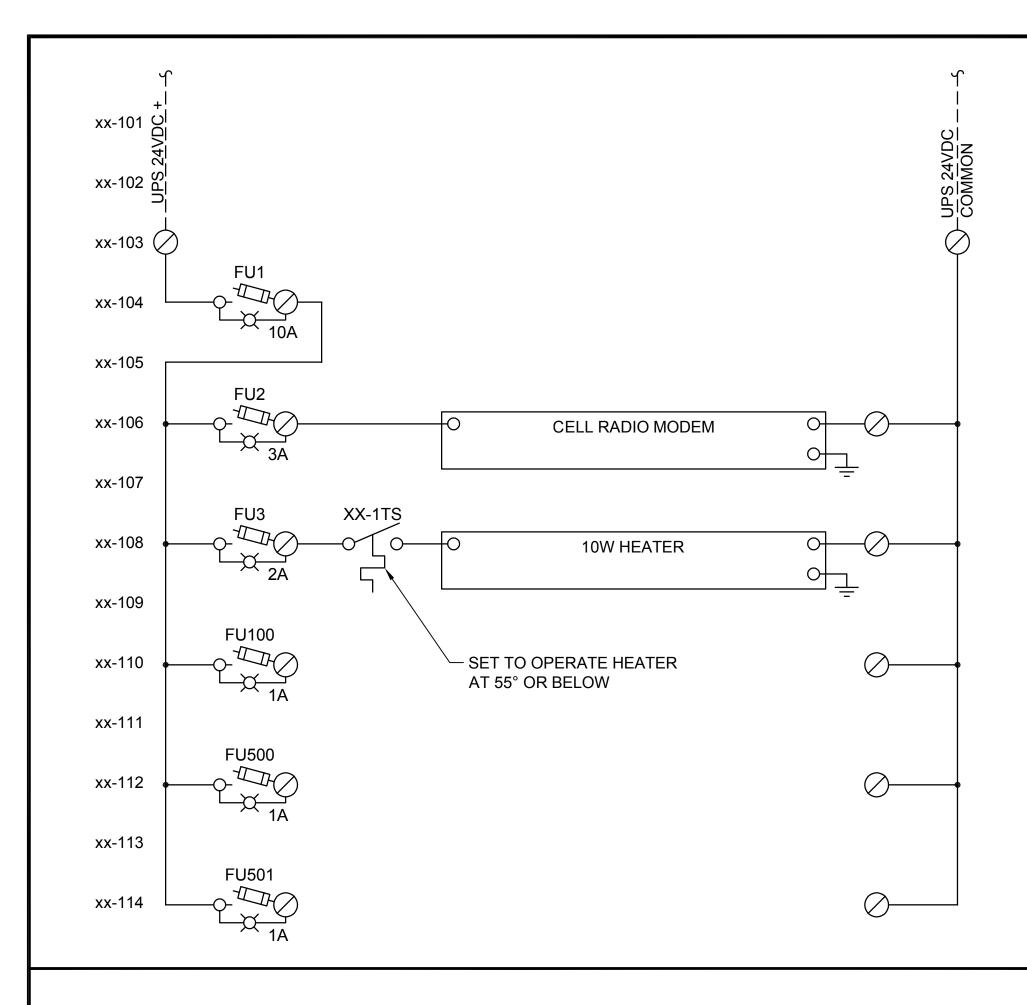
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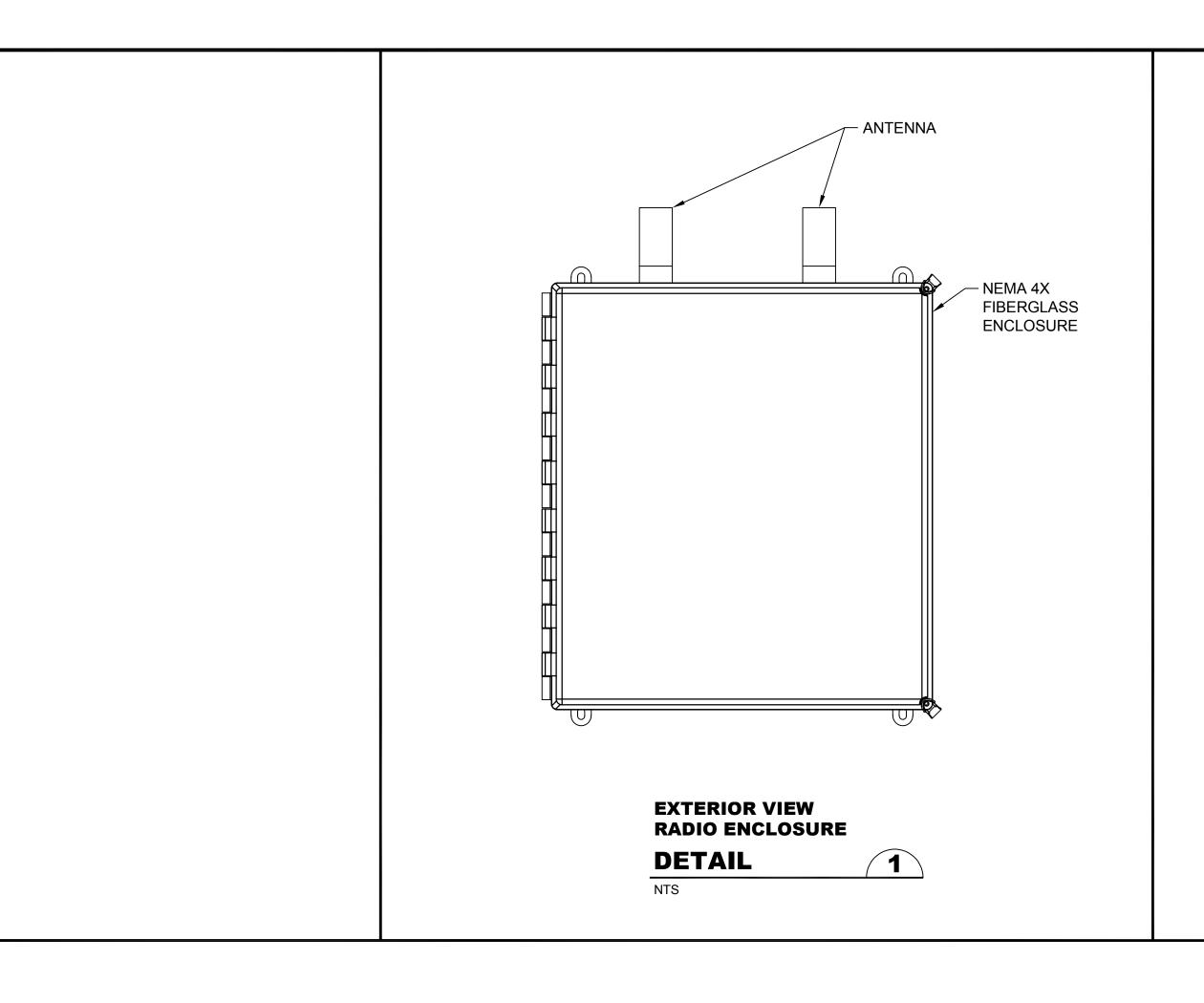




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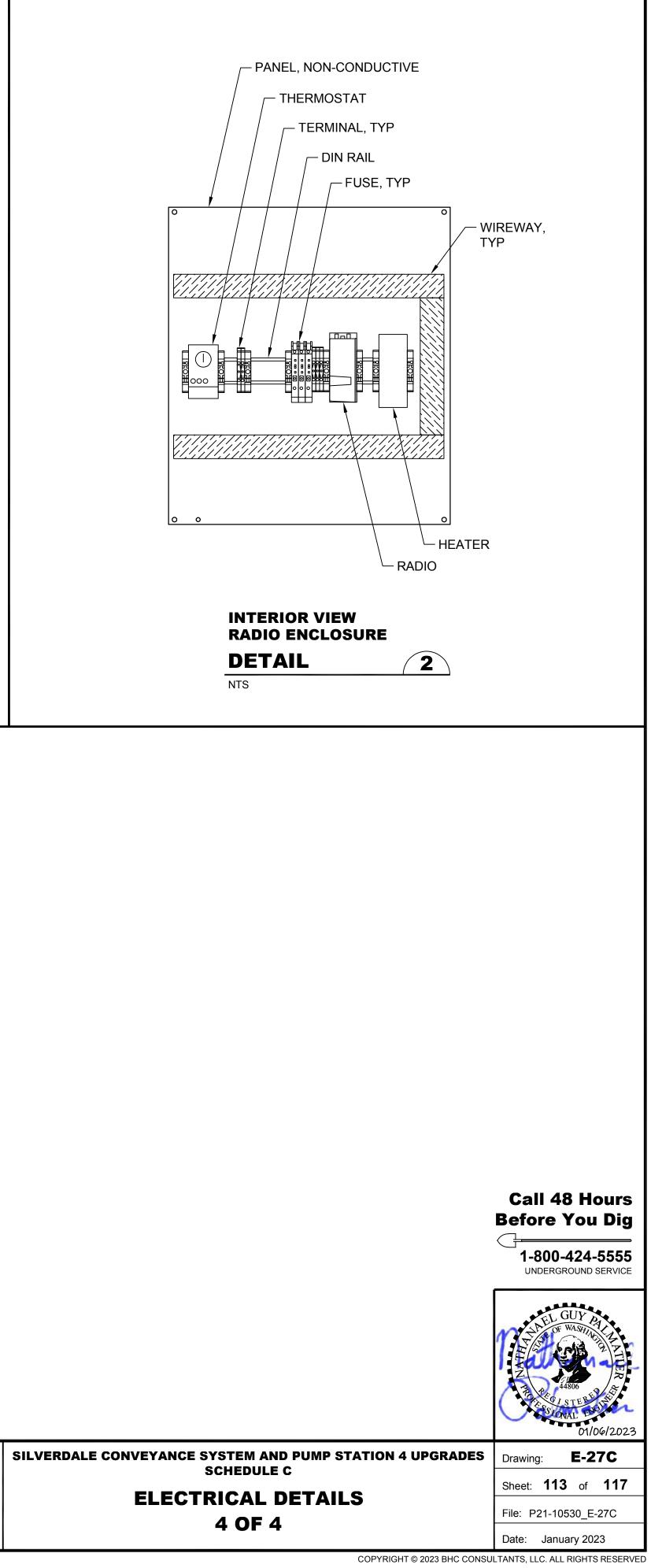
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BHC Con 1601 Fifth Ave Seattle, Washi 206.505.3400 206.505.3406 ( www.bhcconsu



enue, Suite 500 hington 98101	Designed: N. Palmatier, P.E.	Scale: NTS	KITSAP COUNTY	
)	Drawn: A. Bradley	One Inch at Full Scale	18	
ວິ (fax) sultants.com	Checked: R. Dorn, P.E.	If Not One Inch Scale Accordingly	WASHINGTON	

Kitsap County Public Works 614 Division Street, MS 26 Port Orchard, WA 98366



			S					
NEC 220 DEMAND CALCULATIONS								
792105 VA	3 PH VA CONNECTED							
917.6 A	AMPS	480 V						
1029.0 A	DEMAND A	480 V	(TOTAL STATION LOAD)					
56.3 A	DEMAND A	208 V	(PANEL LA1)					
GENERATO R								
390604 W	CALCULATED [W]	490.00 kW	ENGINE GENERATOR SIZE					
470.0 A	CALCULATED [A @ 480VAC]							
PSE CALCULATI ONS								
3000 VA	HEATING	2.92 kW						
763171 VA	MOTOR	743.33 kW						
1558 VA	NONC	1.52 kW						
2878 VA	REC	2.80 kW						
21498 VA	CONTINUOUS	20.94 kW						
0 VA	ELEVATOR	0.00 kW						
3000 VA	HEATING	3.00 kW	*INCLUDES HEAT PUMP					
2600 VA	COOLING	2.60 kW	*COOLING OF HEAT PUMP					
0 VA	REFRIDGERATION	0.00 kW						
6864 VA	WATER HEATING	6.86 kW						
1558 VA	LIGHTING	1.52 kW						
0 VA	COOKING	0.00 kW						
17512 VA	MISCELLANEOUS	17.06 kW						
763171 VA	OTHER MOTORS	743.33 kW						
792105 VA	TOTAL NEW CONNECTED LOAD	771.77 kW						
792105 VA	EST. TOTAL LOAD	771.77 kW						

<b></b>																			
	LIGHTING FIXTURE SCHEDULE										PA		E - PANEL LA			MCC UNIT SCHEDULE			
		A24	A24	A48	A48X	C	F GG		TYPE		скт	OCPD	MIN	CONDUCTORS	DESCRIPTION	UNIT	Т	YPE DESCRIPTION	
		19.9 W	19.9 W	37.8 W	37.8 W	9.6 W 21	.0 W 28.0 V	V 133.0 W	WATT/FI X		LA-01	1P-20A GFCI	CONDUIT 3/4"C	1#12 & 1#12N &	DRY WELL/STAIRWELL RECEPTACLES	MCC A	1 A		
AREA	WATT / AREA										LA-03	1P-20A GFCI	3/4"C	1#12G 1#12 & 1#12N &	DRY WELL/STAIRWELL RECEPTACLES	MCC A	1 C I	FCB PUMP 1 VFD	BRANCH
CONTROL ROOM	286.50 W	2	1	5	1								3/4 °C	1#12G 1#12 & 1#12N &		MCC A	1 G	PS 24VDC POWER SUPPLY	MCC A
BATHROOM	85.21 W			2		1					LA-05	1P-20A		1#12G 1#12 & 1#12N &	ELECTRICAL ROOM RECEPTACLES	MCC	1 K N	MCB MAIN CIRCUIT BREAKER	KIRK KEY A
STAIRWELL	75.60 W			1	1						LA-07	1P-20A	3/4"C	1#12G	ELECTRICAL ROOM RECEPTACLES	MCC	2 A F	-CB MCC C BRANCH	KIRK KEY C
VALVE ROOM	340.20 W			8	1					787.5	LA-09	1P-20A GFCI	3/4"C	1#12 & 1#12N & 1#12G	EXTERIOR RECEPTACLES	A MCC		ELAY ARC FLASH REDUCTION	
									CKT 2	W	LA-11	1P-20A GFCI	3/4"C	1#12 & 1#12N & 1#12G	EXTERIOR RECEPTACLES	A MCC			· · · · · · · · · · · · · · · · · · ·
	E22.00.14/								CKT 2	6.6 A	LA-13	1P-20A	3/4"C	1#12 & 1#12N & 1#12G	ELECTRICAL ROOM CONTROL PANEL	A MCC	2 F		
EXTERIOR DRIVE	532.00 W 28.00 W						1	4			LA-15	1P-20A	3/4"C	1#12 & 1#12N &	ELECTRICAL ROOM CONTROL PANEL	A	2 H		
EXTERIOR EAST	98.00 W						2 2				LA-17	1P-20A		1#12G		MCC A	2 K N	MCB MAIN CIRCUIT BREAKER	KIRK KEY A
EXTERIOR SOUTH WALL	56.00 W						2				LA-19		3/4"C	1#12 & 1#12N & 1#12G	ENGINE GENERATOR OIL ALT. BATTERY HEATER	мсс с	1 A M	MLO MAIN LUGS ONLY	FROM MCC A
EXTERIOR WEST	56.00 W						2				LA-21	1P-15A GFCI	3/4"C	1#12 & 1#12N &	ENDING GENERATOR COOLANT CCV HEATER	MCC C	1 C F	VNR 2HP SPARE STARTER	
WALL									СКТ 4	770.0	LA-21			1#12G		MCC C	1 E F	-CB SPARE CIRCUIT BREAKER	125A
										W	LA-25	1P-20A				MCC C	1 G F	VNR 1HP SPARE STARTER	
									CKT 4	6.4 A	LA-27	1P-20A				MCC C		CB TRANSFORMER "TLA"	
	SWITCHE										LA-29	1P-20A				MCC C MCC C			
					JULE						LA-31	1P-20A				MCC C		FCB PUMP 2 VFD	BRANCH
CIRCUIT		TYPE	DE	SCRIP	TION						LA-33 LA-35	1P-20A 1P-20A				MCC C		-CB SPARE CIRCUIT BREAKER	125A
SERVICE	1 A	DDANOU		<u> </u>							LA-35	1P-20A						-CB SPARE CIRCUIT BREAKER	IZSA
SERVICE SERVICE	1 B 2 A	BRANCH SPD		S A/MM							LA-39	1P-20A				MCC C			
	2 B	BRANCH				VE DEVICE					LA-41	1P-20A				MCC C MCC C			
	3			SERC N							LA-02	1P-15A	3/4"C	1#12 & 0#12N & 1#12G	EXTERIOR LIGHTS	MCC C		FCB SPARE VFD	BRANCH
											LA-04	1P-15A	3/4"C	1#12 & 1#12N &	INTERIOR LIGHTS	MCC C	3 G F	VNR SUMP PUMP	
													3/4 0	1#12G		MCC C		VNR 2HP SPARE STARTER	
											LA-06	1P-15A 1P-15A 30MA		1#12 & 1#12N &		MCC C	3 L		
											LA-08	GFI	3/4"C	1#12G	WATER SERVICE HOTBOX	MCC C	4 A M	MLO MAIN LUGS ONLY	FROM MCC B
											LA-10	1P-15A 30MA GFI	3/4"C	1#12 & 1#12N & 1#12G	ODOR CONTROL PIPING HEAT TRACE	мсс с	4 C I	-CB TROLLEY HOIST (30A CIRCUIT BREAKER	-
											LA-12	1P-15A				MCC C	4 E		
											LA-14	1P-20A				MCC C	4 G		
JRE SCHEDULE											LA-16	1P-20A		0//40.0.0//4001.0		MCC C			
N		DE	SCRIP	ΓΙΟΝ							LA-18	2P-20A	3/4"C	2#12 & 0#12N & 1#12G	AC-1 CONTROL ROOM HEAT PUMP	MCC C			
MD MVOLT GZ10 40K	24" LINEA		TURE, 4	1000K LI	GHT,						LA-20			2#8 & 1#8N &		MCC B		CB     MCC C BRANCH       ELAY     ARC FLASH REDUCTION	KIRK KEY C
MD MVOLT GZ10 40K	ACRYLLI 48" LINEA		TURE, 4	1000K LI	GHT,						LA-22	2P-40A	3/4"C	1#10G	WATER HEATER	MCC B			
											LA-24	05.404				MCC B			
MD MVOLT GZ10 40K	48" LINEA ACRYLLI				•						LA-26 LA-28	2P-40A				МСС В		MCB MAIN CIRCUIT BREAKER	KIRK KEY B
80K35K40K 90CRI KR	OVER-SI	IK VANITY	LIGHT	IXTURE	Ξ						LA-30	1P-20A	3/4"C	1#12 & 1#12N &	SF-1 DRY WELL SUPPLY FAN	MCC B			
MVOLT THK SF DDBXD	FLOOD S	POT, BULE	DING MC	UNTED							LA-32		3/4"C	1#12G 1#12 & 1#12N &	EF-1 DRY WELL EXHAUST FAN	MCC B	2 C I	CB PUMP 3 VFD	BRANCH
T PE SF DDBTXD	LED WAL	_ PACK, PI	HOTOEY	E CON	TROL									1#12G 1#12 & 0#12N &		MCC B	2 G	PS 24VDC POWER SUPPLY	MCC A
OLT RPA PE SF	POLE MO				, PHOTO	EYE,					LA-34	1P-15A	3/4"C	1#12G 1#12 & 0#12N &	BATHROOM FAN	MCC B	2 K N	MCB MAIN CIRCUIT BREAKER	KIRK KEY B
UL DDBXD	15' POLE										LA-36	1P-15A	3/4"C	1#12G	ODOR CONTROL SYSTEM				
	20' POLE										LA-38 LA-40	1P-20A 1P-20A							Call 48 Hours Before You Dig
UL DDBXD	ZU PULE										LA-40	1P-20A							

CIRCUIT			TYPE	DESCRIPTION
SERVICE	1	А		
SERVICE	1	В	BRANCH	ATS A/MMC A
SERVICE	2	А	SPD	SURGE PROTECTIVE DEVICE
SERVICE	2	В	BRANCH	AST B/MCC B
SERVICE	3			EUSERC METER

	LIGHTING FIXTURE SCHEDULE										
TYPE	MIN LUMENS	WATT/FIX	MNF	PN	DESCRIPTION						
A24	3000	19.9	LITHONIA	FEM L24 3000LM LPPCL MD MVOLT GZ10 40K 80CRI	24" LINEAR LED FIXTURE, 4000K LIGHT, ACRYLLIC LENS						
A48	6000	37.8	LITHONIA	FEM L48 6000LM LPPCL MD MVOLT GZ10 40K 80CRI	48" LINEAR LED FIXTURE, 4000K LIGHT, ACRYLLIC LENS						
A48X	6000	37.8	LITHONIA	FEM L48 6000LM LPPCL MD MVOLT GZ10 40K 80CRI E10WMCP	48" LINEAR LED FIXTURE, 4000K LIGHT, ACRYLLIC LENS, 90 MINUTE BATTERY						
С	800	9.61	LITHONIA	FMVCCLS 12IN MVOLT 30K35K40K 90CRI KR	OVER-SINK VANITY LIGHT FIXTURE						
FF	2800	21	LITHONIA	DSXF1 LED P1 40K NSP MVOLT THK SF DDBXD	FLOOD SPOT, BULDING MOUNTED						
GG	3400	28	LITHONIA	TWR1 LED P2 50K MVOLT PE SF DDBTXD	LED WALL PACK, PHOTOEYE CONTROL						
НН	16000	133	LITHONIA	RSX1 LED P4 50K R3 MVOLT RPA PE SF DDBTXD	POLE MOUNTED, LED AREA LIGHT, PHOTOEYE, TYPE 3 WIDE DISTRIBUTION						
P15			LITHONIA	RSS 15 DM19AS EHH3B UL DDBXD	15' POLE ROUND STEEL POLE						
P25			LITHONIA	RSS 25 DM19AS EHH3B UL DDBXD	20' POLE ROUND STEEL POLE						

Nd Filename: P21-10530 E-28C	
1-10530 Silverdale	Visite Comparison and the second control of the second

	ISSUED FOR BID	01-2023	TF	RAD
No.	Revision	Date	By	App'd

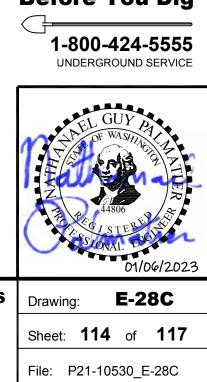


BHC Consult 1601 Fifth Avenue, Seattle, Washington

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<b>sultants, LLC</b> nue, Suite 500 ngton 98101 (fax) Iltants.com	Designed: N. Palmatier, P.E. Drawn: G. Castillo Checked: R. Dorn, P.E.	Scale: NTS One Inch at Full Scale	Kitsap County Public Works 614 Division Street, MS 26 Port Orchard, WA 98366

LA-42 1P-20A



SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES Drawing: E-28C SCHEDULE C

LOAD CALCULATIONS AND SCHEDULES

RACK	SLOT	CHANNEL	TYPE	DESCRIPTION
2	1	0	DO	PUMP 1 CALL TO RUN
2	1	1	DO	PUMP 2 CALL TO RUN
2	1	2	DO	PUMP 1 FAULT (LIGHT)
2	1	3	DO	PUMP 2 FAULT (LIGHT)
2	1	4	DO	PUMP 1 RESET
2	1	5	DO	PUMP 2 RESET
2	1	6	DO	
2	1	7	DO	
2	1	8	DO	
2	1	9	DO	ALARM LIGHT
2	1	10	DO	ALARM HORN
2	1	11	DO	NFPA 820 FAULT
2	1	12	DO	GAS OK
2	1	13	DO	SPARE
2	1	14	DO	SPARE
2	2	15 0	DO DO	PLC FAIL
2	2	1	DO	PLC FAIL PUMP 3 CALL TO RUN
2	2	2	DO	
2	2	3	DO	PUMP 3 FAULT (LIGHT)
2	2	4	DO	
2	2	5	DO	PUMP 3 RESET
2	2	6	DO	
2	2	7	DO	
2	2	8	DO	
2	2	9	DO	
2	2	10	DO	
2	2	11	DO	
2	2	12	DO	
2	2	13	DO	
2	2	14	DO	
2	2	15	DO	
2	3	0	DI	INTRUSION ENABLE (NOT LABELED)
2	3	1	DI	ALARM RESET / ACKNOWLEDGE
2	3	2	DI	DIESEL ENGINE GENERATOR RUNNING
2	3	3	DI	DIESEL ENGINE GENERATOR WARNING
2	3	4	DI	DIESEL ENGINE GENERATOR FAULT/SHUTDOWN
2	3	5	DI	DIESEL ENGINE GENERATOR LOW FUEL
2	3	6	DI	DIESEL ENGINE GENERATOR FUEL LEAK
2	3	7	DI	DIESEL ENGINE GENERATOR PANEL OPEN
2	3	8	DI	FM1 FLOW PULSE
2	3	9	DI	BUILDING SUMP PUMP WET WELL FLOAT ONLY MODE
2	3	10	DI	BUILDING SUMP PUMP WET WELL HIGH HIGH LEVEL
2	3	11	DI	BACKUP FLOAT CONTROL PANEL HIGH LEVEL
2	3	12	DI	BUILDING SUMP PUMP WET WELL LOW LEVEL
2	3	13	DI	BUILDING SUMP PUMP WET WELL LOW LOW LEVEL
2	3	14 15		PARTICULATE DETECTOR ALARM
2	3	15 0		PUMP 1 VFD OPERATING
2	4	1	DI	PUMP 1 VFD OPERATING PUMP 1 VFD FAULTED
2	4	2	DI	PUMP 1 VFD FAULTED PUMP 1 VFD READY
2	4	2	DI	PUMP 1 VFD READY PUMP 1 HARMONIC LINE FILTER HIGH TEMPERATURE ALARM
2	4	4	DI	PUMP 1 VFD LOAD FILTER HIGH TEMPERATURE ALARM
2	4	5	DI	PUMP 1 VFD/MOTOR MONITOR RESET
2	4	6	DI	PUMP 1 HIGH TEMPERATURE ALARM
2	4	7	DI	PUMP 1 LEAK SEAL ALARM
2	4	8	DI	PUMP 1 CALL TO RUN
2	4	9	DI	PUMP 1 HOA IN AUTO
2	4	10	DI	PUMP1 HOA IN HAND
2	4	11	DI	PUMP1 HOA IN AUTO
2	4	12	DI	PUMP 1 HOA IN HAND
2	4	13	DI	PUMP 1 LINE FILTER CONTACTOR ENABLE
2	4	14	DI	

	01.07	OLIANNE:	T\/D-							
RACK	SLOT	CHANNEL	TYPE							
2	5	0	DI	PUMP 2 VFD OPERATING						
2	5	1	DI							
2	5 5	2		PUMP 2 VFD READY PUMP 2 HARMONIC LINE FILTER HIGH TEMPERATURE ALARM						
2	5	4		PUMP 2 VFD LOAD FILTER HIGH TEMPERATURE ALARM						
2	5	5	DI	PUMP 2 VFD / MOTOR MONITOR RESET						
2	5	6	DI	PUMP 2 HIGH TEMPERATURE ALARM						
2	5	7	DI	PUMP 2 LEAK SEAL ALARM						
2	5	8	DI	PUMP 2 START LEVEL FLOAT						
2	5	9	DI	PUMP 2 STOP LEVEL FLOAT						
2	5	10	DI	PUMP 2 RUN ON FLOATS						
2	5	11	DI	PUMP 2 HOA IN AUTO						
2	5	12	DI	PUMP 2 HOA IN HAND						
2	5	13	DI	PUMP 2 LINE FILTER CONTACTOR ENABLE						
2	5	14	DI							
2	5	15	DI							
2	6	0	DI	PUMP 3 VFD OPERATING						
2	6	1								
2	6	2								
2	6 6	3		PUMP 3 HARMONIC LINE FILTER HIGH TEMPERATURE ALARM						
2	6	4 5		PUMP 3 VFD LOAD FILTER HIGH TEMPERATURE ALARM PUMP 3 VFD / MOTOR MONITOR RESET						
2	6	5 6		PUMP 3 VFD / MOTOR MONITOR RESET						
2	6	6 7		PUMP 3 HIGH TEMPERATURE ALARM PUMP 3 LEAK SEAL ALARM						
2	6	8		PUMP 3 START LEVEL FLOAT						
2	6	9	DI	PUMP 3 STOP LEVEL FLOAT						
2	6	10	DI	PUMP 3 RUN ON FLOATS						
2	6	11	DI	PUMP 3 HOA IN AUTO						
2	6	12	DI	PUMP 3 HOA IN HAND						
2	6	13	DI	PUMP 3 LINE FILTER CONTACTOR ENABLE						
2	6	14	DI							
2	6	15	DI							
2	7	0	DI	PS1CON PS A IN USE						
2	7	1	DI	PS2CON PS B IN USE						
2	7	2	DI	UPS ON BATTERY POWER						
2	7	3	DI	UPS READY / NOT FAULT						
2	7	4	DI							
2	7	5	DI							
2	7	6	DI	CONTROL ROOM - MAIN DOOR OPEN						
2	7	7	DI	CONTROL ROOM - SIDE DOOR OPEN						
2	7	8	DI	SERVICE SWITCHBOARD SURGE PROTECTIVE DEVICE ALARM						
2	7	9	DI	SERVICE SWITCHBOARD SPD CIRCUIT BREAKER CLOSED (OK)						
2	7	10		SERVICE SWITCHBOARD ATS A CIRCUIT BREAKER CLOSED (OK						
2	7	11		SERVICE SWITCHBOARD ATS B CIRCUIT BREAKER CLOSED (OK MCC A MAIN CIRCUIT BREAKER CLOSED (OK)						
2	7 7	12 13	DI DI	MCC A MAIN CIRCUIT BREAKER CLOSED (OK) MCC A ROLL UP GENERATOR FEEDER CIRCUIT BREAKER (OK)						
2	7	13		MCC A VFD PUMP 1 CIRCUIT BREAKER CLOSED (OK)						
2	7	14		MCC A MCC A TO MCC C TIE BREAKER CLOSED (OK)						
2	8	0	DI	MCC B MAIN CIRCUIT BREAKER CLOSED (OK)						
2	8	1	DI	MCC B ROLL UP GENERATOR FEEDER CIRCUIT BREAKER (OK)						
2	8	2	DI	MCC B VFD PUMP 3 CIRCUIT BREAKER CLOSED (OK)						
2	8	3	DI	MCC B MCC B TO MCC C TIE BREAKER CLOSED (OK)						
2	8	4	DI	MCC C SPARE FVNR START MCP CLOSED (OK)						
2	8	5	DI	MCC C VFD PUMP 3 CIRCUIT BREAKER CLOSED (OK)						
2	8	6	DI	MCC C SUMP PUMP START MCP CLOSED (OK)						
2	8	7	DI	MCC C TRANSFORMER TLA CIRCUIT BREAKER CLOSED (OK)						
2	8	8	DI	ATS A NORMAL POWER AVAILABLE						
2	8	9	DI	ATS A NORMAL POWER CONNECTED						
2	8	10	DI	ATS A SECONDARY POWER AVAILABLE						
2	8	11	DI	ATS A SECONDARY POWER CONNECTED						
2	8	12	DI	ATS B NORMAL POWER AVAILABLE						
2	8	13	DI	ATS B NORMAL POWER CONNECTED						
2	8	14	DI	ATS B SECONDARY POWER AVAILABLE						
2	8	15	DI	ATS B SECONDARY POWER CONNECTED						

ilverdale Convey-PS atier | Dahl | Fisher | Kitsap County/21-10530 e: | X21-10530\_TB | Palr S II Path: Xref

	ISSUED FOR BID	01-2023	TF	RAD
No	Revision	Date	By	App'd



BHC 1601 Fifth Avenue, Suite 500 Seattle, Washington 98101

# PROGRAMMABLE LOGIC CONTROLLER INPUT AND OUTPUT SCHEDULES

RACK	SLOT	CHANNEL	TYPE	DESCRIPTION
2	9	0	DI	MCC A ARC FLASH REDUCTION MAINTENANCE MODE
2	9	1	DI	MCC B ARC FLASH REDUCTION MAINTENANCE MODE
2	9	2	DI	PUMP 1 SELECTED LEAD
2	9	3	DI	PUMP 2 SELECTED LEAD
2	9	4	DI	PUMP 3 SELECTED LEAD
2	9	5	DI	PUMP 1 SELECTED LAG
2	9	6	DI	PUMP 2 SELECTED LAG
2	9	7	DI	PUMP 3 SELECTED LAG
2	9	8	DI	SUPPLY FAN AIR FLOW OK
2	9	9	DI	EXHAUST FAN AIR FLOW OK
2	9	10	DI	NFPA 820 ENVIRONMENT ALARM SILENCED
2	9	11	DI	SUPPLY FAN MOTOR CONTROL IN ON
2	9	12	DI	EXHAUST FAN OOR IN ON
2	9	13	DI	EXHAUST FAN OOR IN REMOTE
2	9	14	DI	
2	9	15	DI	

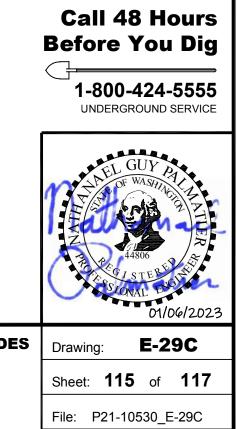
	PROGRAMMABLE LOGIC CONTROLLER INPUT AND OUTPUT SCHEDULES											
RACK SLOT CHANNEL			TYPE	DESCRIPTION	RANGE							
1	3	0	AI	SUBMERSIBLE LEVEL (PRESSURE) TRANSMITTER	0 FT - 15 FT, 4 mA - 20 mA							
1	3	1	AI	FORCE MAIN PRESSURE	0 PSI - 100 PSI, 4 mA - 20 mA							
1	3	2	AI	FORCE MAIN FLOW METER	0 GPM - 1000 GPM, 4 mA - 20 mA							
1	3	3	AI	PUMP1 POWER FEEDBACK	0% - 100%, 4 mA - 20 mA							
1	4	0	AI	PUMP 2 POWER FEEDBACK	50% - 100%, 4 mA - 20 mA							
1	4	1	AI	PUMP 3 POWER FEEDBACK	50% - 100%, 4 mA - 20 mA							
1	4	2	AI	CONTROL PANEL TEMPERATURE	0°F - 150°F, 4 mA - 20 mA							
1	4	3	AI	CONTROL PANEL TEMPERATURE	0°F - 150°F, 4 mA - 20 mA							
1	5	0	AI	ENGINE GENERATOR FUEL LEVEL	0% - 100%, 4 mA - 20 mA							
1	5	1	AI		0% - 100%, 4 mA - 20 mA							
1	5	2	AI		0% - 100%, 4 mA - 20 mA							
1	5	3	AI		0% - 100%, 4 mA - 20 mA							
1	1	0	AO	PUMP 1 SPEED REF	MIN - MAX, 4 mA - 20 mA							
1	1	1	AO	PUMP 2 SPEED REF	MIN - MAX, 4 mA - 20 mA							
1	1	2	AO		- , 4 mA - 20 mA							
1	1	3	AO		- , 4 mA - 20 mA							
1	1	0	AO	PUMP 3 SPEED REF	- , 4 mA - 20 mA							
1	1	1	AO		- , 4 mA - 20 mA							
1	1	2	AO		- , 4 mA - 20 mA							
1	1	3	AO		- , 4 mA - 20 mA							

**Kitsap County Public Works** 614 Division Street, MS 26 Port Orchard, WA 98366

SILVERDALE CONVEYANCE SYSTEM AND PUMP STATION 4 UPGRADES SCHEDULE C

NTS Drawn: A. Bradley One Inch at Full Scale Checked: R. Dorn, P.E.





# **ELECTRICAL SCHEDULES** 1 OF 2

		CIRCUIT SCH	EDULES POWER CIRCUITS			
TAG	CONDUIT	CONDUCTORS	FROM	то		
U1)	2-4"	CONDUCTORS BY UTILITY	UTILITY PRIMARY POLE	UTILITY TRANSFORMER		
(U2)	4-4"	3 SETS EACH 3-600KCMIL & 1-300KCMIL(N)	UTILITY TRANSFORMER	UTILITY METER SWITCHBOARD		
			UTILITY METERING	UTILITY METER SWITCHBOARD		
(2)	2-4"	2 SETS EACH 3-600KCMIL & 1-300KCMIL(N) & 1-1/0(G)	UTILITY METER SWITCHBOARD	ATS A		
			UTILITY METER SWITCHBOARD	ATS B		
			ENGINE GENERATOR PACKAGE	ATS A		
			ENGINE GENERATOR PACKAGE	ATS B		
			ATS A	MCC A		
			ATS B	MCC B		
			MCC C	MCC A		
			MCC C	MCC B		
3	2-2"	2 SETS EACH 3/0VFD (MIN BEND RADIUS 19")	MCC A	VFD PUMP 1		
			MCC B	VFD PUMP 2		
			MCC C	VFD PUMP 3		
(4)	2-2"	2 SETS EACH 3/0VFD (MIN BEND RADIUS 19")	VFD PUMP 1	MOTOR TERMINAL JUNCTION BOX PUMP 1		
			VFD PUMP 2	MOTOR TERMINAL JUNCTION BOX PUMP 2		
			VFD PUMP 3	MOTOR TERMINAL JUNCTION BOX PUMP 3		
5	2-4"	2 SETS EACH MNF (MIN BEND RADIUS 19")	MOTOR TERMINAL JUNCTION BOX PUMP 1	SUBMERSIBLE PUMP 1		
			MOTOR TERMINAL JUNCTION BOX PUMP 2	SUBMERSIBLE PUMP 2		
			MOTOR TERMINAL JUNCTION BOX PUMP 3	SUBMERSIBLE PUMP 3		
6	2-3"	2 SETS EACH 3#3/0 & 1#3/0N & 1#3G	GENERATOR INLET RECEPTACLE PANEL	MCC A		
			GENERATOR INLET RECEPTACLE PANEL	MCC B		
	1-1/4"	3#4 & 1#8G	MCC C	TLA		
8	2-1/2"	3#1 & 1#1N & 1#6G	TLA	TLACB		
			TLACB	LA (SECTION 1)		
			LA (SECTION 1)	LA (SECTION 2)		
9	1"	3#10 & 2#14 & 1#10G	MCC C	ODOR CONTROL FAN		
10	3/4"	1#10 & 2#14 & 1#10G	MCC C	SUPPLY FAN (SF-1)		
			MCC C	EXHAUST FAN (EF-1)		

MOTOR SCHEDULE												
	HP	EFFICIENCY	LRC	FLA	VOLTAGE	PHASE	NOTES/WSEC EXCEPTION					
EF-1	0.75	85%	50. A	8.8 A	115 V	1	ELECTRICALLY COMMUTATED					
SF-1	0.75	85%	50. A	8.8 A	115 V	1	ELECTRICALLY COMMUTATED					
PUMP 1	250	93.50%	2030. A	284. A	480 V	3	C405.8 EXCEPTION: SUBMERSIBLE ELECTRIC MOTOR					
PUMP 2	250	94%	2030. A	284. A	480 V	3	C405.8 EXCEPTION: SUBMERSIBLE ELECTRIC MOTOR					
PUMP 3	250	94%	2030. A	284. A	480 V	3	C405.8 EXCEPTION: SUBMERSIBLE ELECTRIC MOTOR					
ODOR CONTROL FAN	3	89.50%	32. A	4.8 A	480 V	3						

	TRANSFORMER SCHEDULE									
	PRIMARY VOLTAGE	SECONDARY VOLTAGE	SIZE [KVA]	EFFICIENCY	NOTES/WSEC EXCEPTION					
TLA	480V, 3PH, DELTA	208V/120Y, 3PH, WYE	45	98.40% MIN						

		W	ASH			N STA TING (				
LIGHTING COM	PLIANC	ESUN	MAR		вп	ING	00			
2018 WSEC Compliance Forme	for Commercia	il Bailder	ps including	Group H2	R3& 84 o	ver 3 minics and a	all R.I.			
			n Title			Silverdal: Lift 960	Station	4 Upgrades -	2018 W5E	ð
		Project Address				960	06 Fred	rickson RD NV m, WA 98311	N	
Penject & Applicant Information		Applicant Name			-		Nathan	ael Poltnatier 357-9954		
			rant Phone rant Email	_	2			357-9954 miabhcconsult		
		Labbu	te questions :	about this	report, conti	ect WSEC Comm	ercul T	echnical Sopp	ort at 360-	5
General Occupancy		T	AUC	eccordal		General Baild	ine the	Type	1	
				New Bush	ding or		ie Lieb		Alteratio	
General Project Types		New	Building	Addition Lightleg	Scept	Ester	ior Light	tring	Lighting	
Lighting Project Description		1	-		-	Revis	ed para	e station contri	of building	
		-		Interior	/ Exterior					
Lighting Compliance Scop	Projec	s Type	Shaheein	e inclusion B	eth interior a	parklegt	Lan	sinaire Roplac	onual So	
and Method	New B	uibing .	-	Exterio	e Lighting e Lighting		_			
Additional Efficiency Options Included					- Fighting					
Options Included						1				
Project Talk Salv		-		_	_					
Lighting Power Calculation	-	NEW	BUILDI	NG - IN	ERIOR	LIGHTING		_		
Surgilance Method				Spa	is to space	÷			LPAG	
						Interio	w Ligh	ting Power Al	llew soce -	
General Space Type	Specifi	e Space 7	Spe	Ceilie	8	Grass Interio			LPAT	,
ElectricalInochanical			-	Height	10	70	_	-		í
Electrical/mochanies	1					36				
Restroom	1	General	-		-	8				1
Marwell	1	Lichtin		_					Prepr	
			Totals							
					1225		Pre	powerd Lightin	g Power I	1
						Quantity of				
Finture Ty	Finture Type					Pistures (#F)				
	the .		Fian	ere ID		Fistures (JF)		pe	w Findure	
1	he.		Tie	ire ID		Quantity of Fistures (JF)	_	pe	Astts er Hage Limi # Fisture (WpF)	
ndividual Pixtures	lerizontal setfis	(e-m)()		24		Quantity of Fistures (IF)	_	pr	e Fisture (WpF) 26	
ndividual Flutures	keripental serfia keripental serfia		-			Quantity of Fistures (IF)	_	pr	20 38	
Individual Fictures	lerizoenal serfia		-	34		Fistures (JF)		P	26	
Individual Pitchres II H	ketizontal setfia ketizontal setfia Wall-	co-mined	Å	24 48 C		Fistures (JF)		H	20 38	
Individual Pitchres II H	keripental serfia keripental serfia	co-mined	Å	24 48 C	WSEC	Fistures (JF)		P	20 38	
ndiridaal Fixtures B Project Titly Silve	keizontal setfis keizontal setfis Walt erdale Lift S	constrait constrait	A A Upgrade	24 48 C 5 - 2918		Fistures (JF)		P	20 38	
ndiridaal Fixtures B Project Title Silve Propente Fixtures Details	keizontal serfia keizontal serfia Walt- erdiale Läft S	terrented Reation 4	A A Upgrade	24 48 C 5 - 2918		Fisters (JF)		,	20 38	
Project Title Silve Project Title Silve Project Title Silve Project Type Applicati	keizontal serfia keizontal serfia Walt- erdiale Läft S	terrented Reation 4	A A Upgrade	24 48 C 5 - 2918		Fistures (IF)	Sec 10.0	,	20 38	
ndividual Flotares	erizontal serfia erizontal serfia Walt eridale Låft S on face-mount	iz count number kation 4 NEW	A Upgrade BUILDI nore ID A24	24 48 C x - 2948 NG - 1N	TERIOR	Fistures (JF)		,	20 38	
adicional Pluteres	erizontal serfia erizontal serfia Walt eridale Låft S on face-mount	iz count number kation 4 NEW	A Upgrade BUILDI nore ID A24	24 48 C x - 2948 NG - 1N	TERIOR	Pistores (JP)		,	20 38	
ndicified Fivieres	erizonal orfin Wal- eridale Lift S on face-mount Fo	te ennet enneted itation 4 NEW Fir there Des	A A BUILDID tore ID A24 reprise 24*	24 48 C s - 2918 NG - 1N Linear LE	D Sature, 4	Pixtures (#F) 3 13 13 1 LIGHTING Location in D 6.3 900K light, sampli ghting controlof.	ic lens	atı	26 38 10	
adicional Pluteres	erizantal artia Wali- eridale Lâft S 666   face-mount   Fei Davi-mount	ice excent connected ication 4 NEW Fit state Deale these fits	A A BUILD() ature ID A24 A24 A48	24 48 C NG - IN Linear DE geotheau	D Esture, 4 plication by	Pistures (#F) 3 13 1 LIGHTING Location in D 63 90% light, scryfil ghing consider) (constant)	ic lens None re	atı	20 38	
ndicified Fivieres	ertizental serfia Vali- ertiale Láñ S face-mount Fei face-mount Fi	itation 4	A A BUILDI fore ID A24 rigine: 34* Isrre requite A48 requise: 48*	24 48 C NG - 1N Linear UE greath ag	D fisture, 40 plication by D fisture, 40	2 13 1 LIGHTING Location in D E3 906K light, anyll ghting controls; E7 and 906K light, anyll	ic lets None re E-4 ic lets	at.	26 38 10	
adividual Hivarus Project Title Silvy Proposed Elsteres Details Fistere Type/Apficial Moriodal as Thoracetal as	orizontal setfini lecizontal setfin Wath cridade Lâft S cridade Lâft S decomount Fri De De Deso-mount Fri De Deso-mount	ic constant constant of itation 4 NEW Fin state Dess offere fix state Dess offere fix	A A BUILDI dure ID A24 artigious 24° Add Artigious 24° articiaes 48° articiaes 48°	24 48 C S = 2018 NG = 3N Uncor LE specific ag Uncor LE	D Enture, 4 reflection by D Enture, 4 reflection by	Pistures (#F) 3 13 1 LIGHTING Location in D 63 90% light, scryfil ghing consider) (constant)	ic lens None re IE-8 ic lens None re	at.	26 38 10	
hidiridual Photons Project Title Silve Proposed Fistures Details Fisture 32ge/applicat Torspeedal no Thorspeedal no Thorspeedal no	ertizental serfia ketronial sarfia wats ertiale Lift S face-mount	itation 4 itation 4 NEW fin state Desc these fits state Desc these fits	A A BUILDO BUILDO More ID A32 repose 24* https://www.applice.a	24 48 C x = 2048 NG = 3N1 Unser LE specific ag t-sizk. Van	D fature, 40 pfication by D fature, 40 splication by D fature, 40 splication by	Fatters (JF) 3 13 1 LEGHTING Lecator in D E-3 and E-3 and E-	ic lens None re E-4 ic lens None re	ads.	26 38 10	
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adividual Hivarus Project Title Silvy Proposed Elsteres Details Fistere Type/Apficial Moriodal as Thoracetal as	lerizontal serfis ereratal erefus wat- erelale Lift S (acc-mount Feb (acc-mount) Feb (acc-mount) Feb (b) (acc-mount) Feb (b) (b) (b) (b) (b) (b) (b) (b) (b) (b	terrented construct itation 4 NEW Fire there Desc i these fix there Desc i these fix	A A BUILDIN tore ID A24 reprise 24* inters require C reprise 48* creation Over arrise require	24 48 C NG - 1NT Linear LE specific as inter LE specific as inter LE	D finner, 4 plication by D finner, 4 plication by D finner, 40 plication by try Light	Fatters (JF) 3 13 1 LEGHTING Lecator in D E-3 and E-3 and E-	ic lens None re E-4 ic lens None re	ads.	26 38 10	
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hha	BHC Consultants, 1601 Fifth Avenue, Suite 50 Seattle, Washington 98101
CONSULTANTS	206.505.3400 206.505.3406 (fax) www.bhcconsultants.com

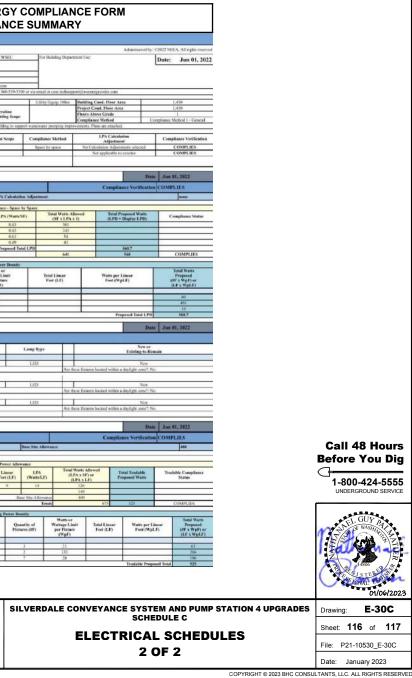
onsultants, LLC	Designed:	N. Palmatier, P.E.
ashington 98101 00	Drawn:	A. Bradley
06 (fax) onsultants.com	Checked:	R. Dorn, P.E.

Scale:

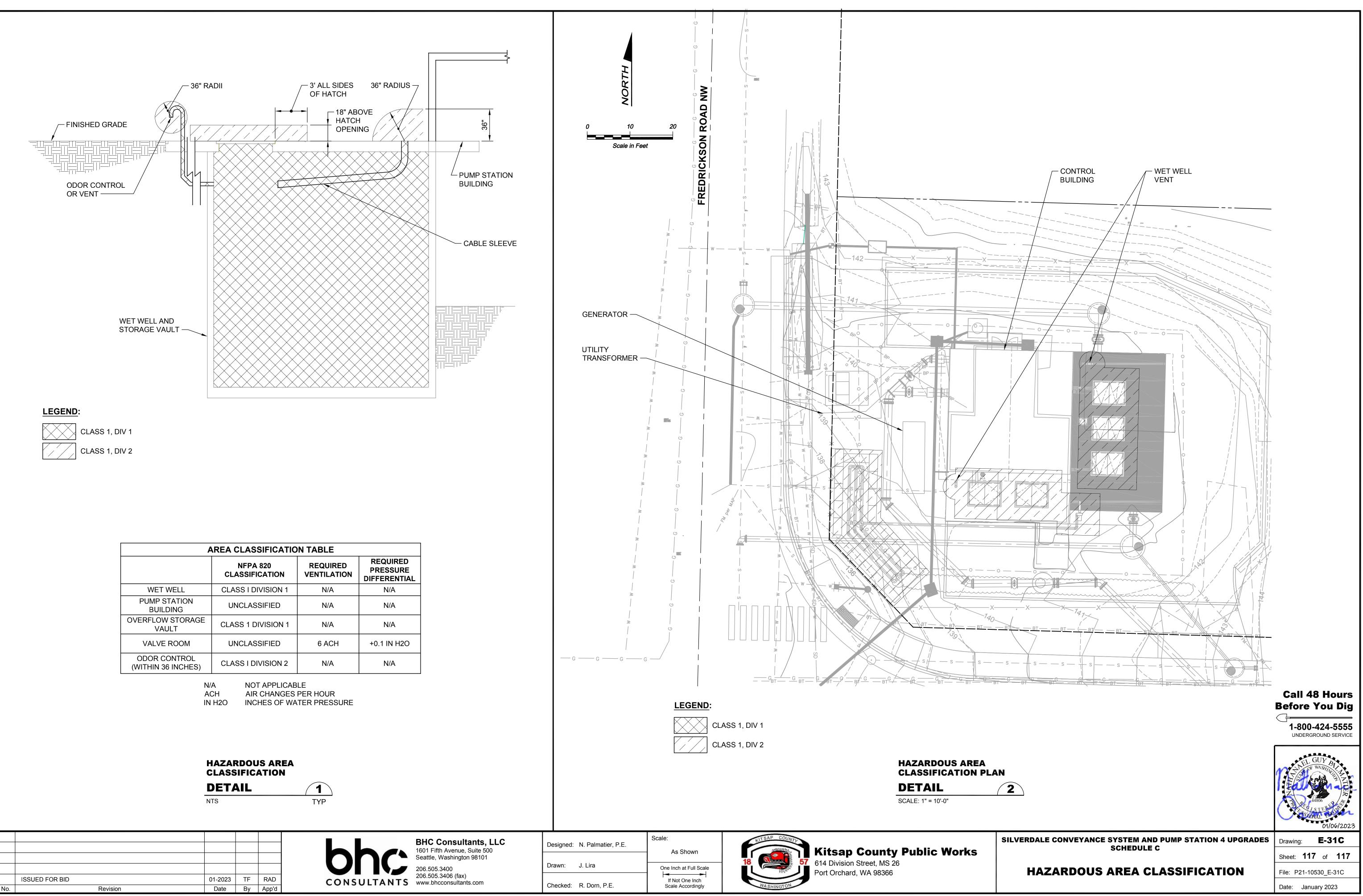
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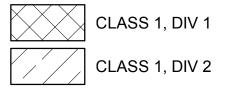
One Inch at Full Scale

18 57	Kitsap County Public Works 614 Division Street, MS 26 Port Orchard, WA 98366
WASHINGTON	Port Orchard, WA 98366

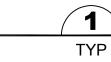


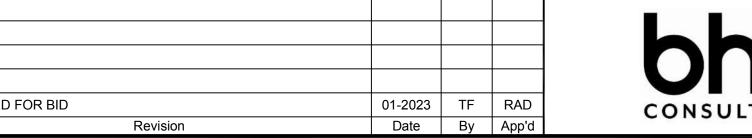
GUU





AREA CLASSIFICATION TABLE				
	NFPA 820 CLASSIFICATION	REQUIRED VENTILATION	REQUIRED PRESSURE DIFFERENTIAL	
WET WELL	CLASS I DIVISION 1	N/A	N/A	
PUMP STATION BUILDING			N/A	
OVERFLOW STORAGE VAULT	CLASS 1 DIVISION 1	N/A	N/A	
VALVE ROOM	UNCLASSIFIED	6 ACH	+0.1 IN H2O	
ODOR CONTROL (WITHIN 36 INCHES)	CLASS I DIVISION 2	N/A	N/A	





				SIGN	AL CIRCUITS	
ID	MIN.	СКТ А	MIN.	СКТ В	FROM	то
501	1-1/4"	15#14	1"	1-CAT6(600V) & 1-2/C#16STP	VFD PUMP 1	MAIN CONTROL PANEL
502	1-1/4"	15#14	1"	1-CAT6(600V) & 1-2/C#16STP	VFD PUMP 2	MAIN CONTROL PANEL
503	1-1/4"	15#14	1"	1-CAT6(600V) & 1-2/C#16STP	VFD PUMP 3	MAIN CONTROL PANEL
504			1"	1-2/C#16STP	MOTOR TERMINAL JUNCTION BOX PUMP 1	MAIN CONTROL PANEL
505			1"	1-2/C#16STP	MOTOR TERMINAL JUNCTION BOX PUMP 2	MAIN CONTROL PANEL
506			1"	1-2/C#16STP	MOTOR TERMINAL JUNCTION BOX PUMP 3	MAIN CONTROL PANEL
601	1"	7#14			UTILITY SWITCHBOARD	MAIN CONTROL PANEL
602	1-1/4"	10#14 & 2#10			MOTOR CONTORL CENTER "MCC A"	MAIN CONTROL PANEL
603	1-1/2"	18#14 & 2#10	1"	4-CAT6(600V)	MOTOR CONTORL CENTER "MCC C"	MAIN CONTROL PANEL
604	1-1/2"	18#14 & 2#10	1"	4-CAT6(600V)	MOTOR CONTORL CENTER "MCC C"	MAIN CONTROL PANEL
605	1-1/4"	10#14 & 2#10			MOTOR CONTORL CENTER "MCC B"	MAIN CONTROL PANEL
606	1"	12#14 & 2#12	1"	1-FFT10 & 1-CAT6	AUTOMATIC TRANSFER SWITCH "ATS A"	MAIN CONTROL PANEL
607	1"	12#14 & 2#12	1"	1-FFT10 & 1-CAT6	AUTOMATIC TRANSFER SWITCH "ATS B"	MAIN CONTROL PANEL
608	1"	12#14 & 2#12	1"	1-FFT10 & 1-CAT6	DIESEL ENGINE GENERATOR	MAIN CONTROL PANEL
609	1"	2#10 & 2#12 & 1#10G			DIESEL ENGINE GENERATOR	ATS A
610	1"	2#10 & 2#12 & 1#10G			DIESEL ENGINE GENERATOR	ATS B
611			3/4"	1-FFT10 & 2#12 & 1#12G	DIESEL ENGINE GENERATOR REMOTE DISPLAY	MAIN CONTROL PANEL
612	3/4"	2#14			ENGINE GENERATOR CIRCUIT BREAKER "GEN A"	MOTOR CONTROL CENTER "MCC A"
613	3/4"	4#14			ENGINE GENERATOR CIRCUIT BREAKER "GEN B"	MOTOR CONTROL CENTER "MCC B"
614	3/4"	2#14			ENCLOSED CIRCUIT BREAKER "TLACB"	MAIN CONTROL PANEL
615	3/4"	4#14			MOTOR CONTROL CENTER "MCC A"	UTILITY SWITCHBOARD
616	3/4"	4#14			MOTOR CONTROL CENTER "MCC B"	
701			1"	1-2/C#16STP	FORCE MAIN PRESSURE TRANSMITTER	MAIN CONTROL PANEL
702	3/4"	4#14 & 1#14G	1"	1-CAT6 & 2-2/C#16STP	FLOW METER TRANSMITTER	MAIN CONTROL PANEL
703	1-1/2"	11#14 & 2#12 & 1#12G	1"	1-2/C#16STP	BACKUP FLOAT CONTROL PANEL	MAIN CONTROL PANEL
704	3/4"	2#14			TELEMETRY PANEL	BACKUP FLOAT CONTROL PANEL
705	3/4"	2#14 & 1#14G			VALVE ROOM FLOOD SWITCH	BACKUP FLOAT CONTROL PANEL
706	1-1/4"	18#14	1"	3-CAT6 & 2-2/C#16STP	TELEMETRY PANEL	MAIN CONTROL PANEL
707			1"	1-CAT6 & 2#12 & 1#12G	EXTERIOR CELLULAR MODEM PANEL	TELEMETRY PANEL
708	1"	7#14 & 1#14G			GO/NO-GO	MAIN CONTROL PANEL
709	3/4"	3#14 & 1#14G			PIPING ROOM DOOR SWITCH	MAIN CONTROL PANEL
710	3/4"	3#14 & 1#14G			ELECTRICAL ROOM (SINGLE DOOR) SWITCH	MAIN CONTROL PANEL
711	3/4"	3#14 & 1#14G			ELECTRICAL ROOM (DOUBLE DOOR) SWITCH	MAIN CONTROL PANEL
712	3/4"	4#14 & 1#14G			PARTICULATE DETECTOR	MAIN CONTROL PANEL
801	3/4"	4#14 & 1#14G			HVAC UNIT HEATER UH-1 THERMOSTAT	HVAC UNIT HEATER UH-1
802	3/4"	3#14 & 1#14G			HVAC AIR FLOW SWITCH EXHAUST	MAIN CONTROL PANEL
803	3/4"	3#14 & 1#14G			HVAC AIR FLOW SWITCH SUPPLY	MAIN CONTROL PANEL
804	3/4"	4#14 & 1#14G			HVAC BATHROOM HEATER THERMOSTAT	HVAC BATHROOM HEATER
805	1"	6#14 & 1#14G			HVAC HEAT PUMP OUTDOOR UNIT CU-1	HVAC HEAT PUMP INDOOR UNIT
806	3/4"	2#14 & 1#14G			HVAC EXHAUST FAN	MAIN CONTROL PANEL
807	3/4"	2#14 & 1#14G			HVAC SUPPLY FAN	MAIN CONTROL PANEL

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Designed: N. Palmatier, P.E. Drawn: J. Lira Checked: R. Dorn, P.E.

P.E. Scale: N/A One Inch at Full Scale If Not One Inch Scale Accordingly



57 Kitsap County Public Works 614 Division Street, MS 26 Port Orchard, WA 98366

