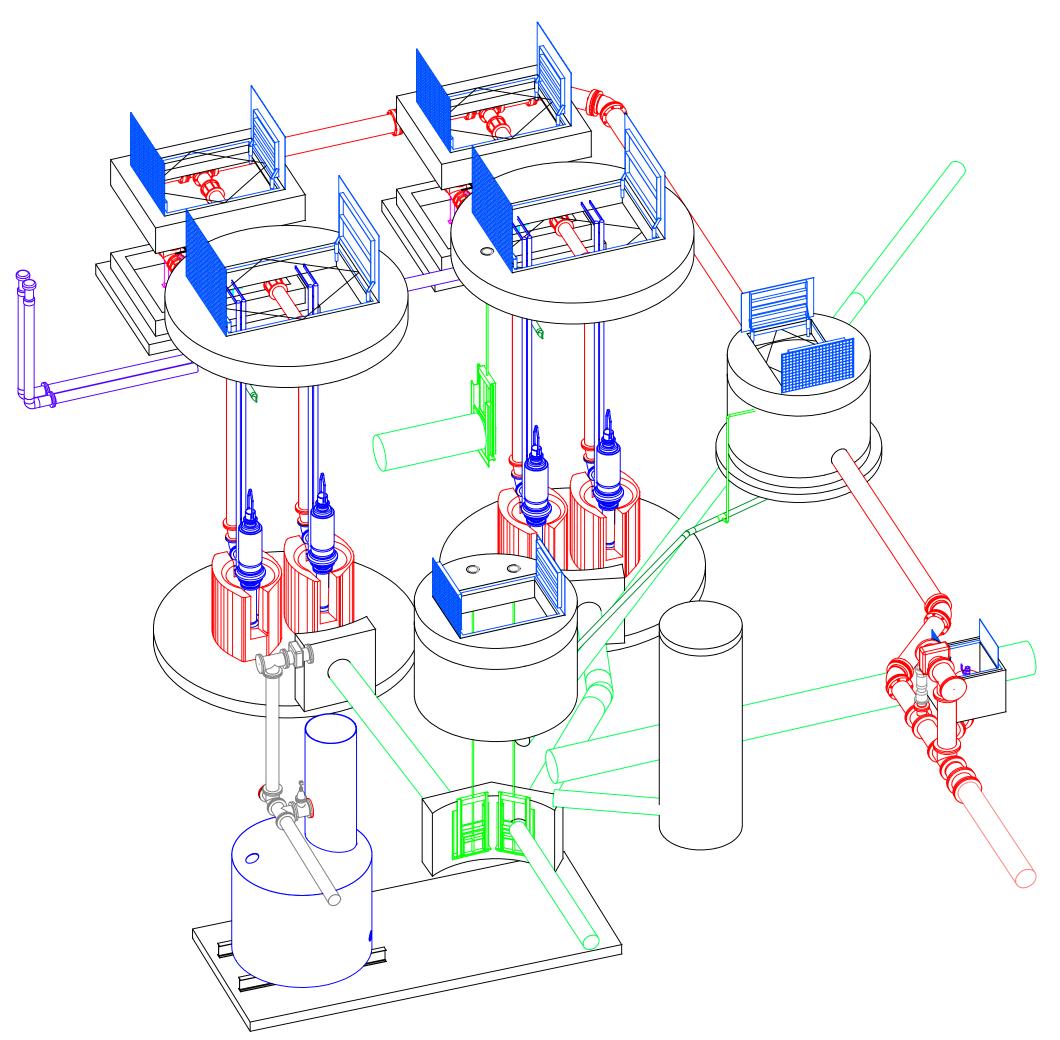
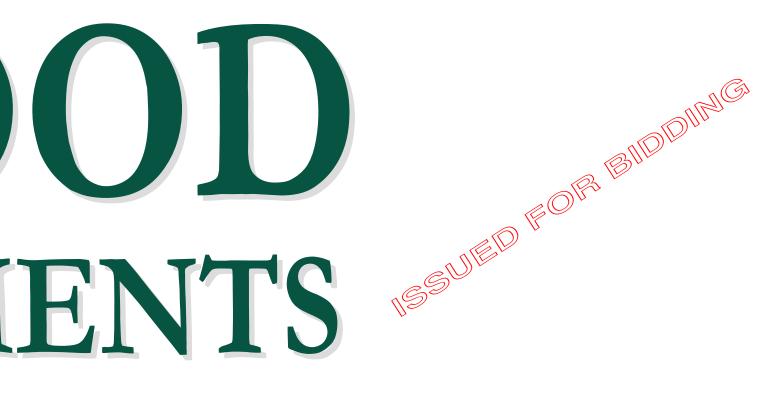


CITY OF LYNNWOOD LYNNWOOD LIFT STATIONS 4 & 8 IMPROVEMENTS

APRIL 2019 VOLUME 2 OF 2





	GENERAL NOTES		
1.	CONTRACTOR SHALL CALL 1-800-424-5555 FOR UTILITY LOCATES 48 HOURS BEFORE CONSTRUCTION. THE CONTRACTOR	1.	REFER TO GENERAL PLAN
	SHALL HAVE ALL UTILITIES LOCATED BY THE APPROPRIATE UTILITY LOCATING PROFESSIONALS, PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE UTILITY COMPANY WHEN A CONFLICT OCCURS OR WHEN A CONFLICT IS ANTICIPATED.	2.	PERMANENT ROAD OR DR
2.	CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTATION OR CONSTRUCTION.	3.	
3.	CONTRACTOR MUST KEEP A COPY OF THE APPROVED PLANS ON-SITE WHENEVER CONSTRUCTION IS IN PROGRESS.		UPGRADING OF THESE ESC CONSTRUCTION IS APPRO
4.	THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE PUBLIC AND PREVENT NUISANCES. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.	4.	THE BOUNDARIES OF THE CITY PROPERTY LINES SHO FLAGGED IN THE FIELD PR THE FLAGGED CLEARING L
5.	THE CONTRACTOR IS RESPONSIBLE FOR PREPARING COMPLETE AS-CONSTRUCTED (AS BUILT) RECORDS, INCLUDING AS-BUILT SURVEYING.		APPLICANT/CONTRACTOR
6.	CONSTRUCTION OF IMPROVEMENTS SHALL CONFORM TO THE CURRENT EDITION OF THE CITY OF LYNNWOOD ENGINEERING STANDARDS AND THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, 2018 EDITION, AS ISSUED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION.	5.	THE ESC FACILITIES SHOW SEQUENCE AND IN SUCH A SYSTEM OR VIOLATE APPL
7.	THESE DOCUMENTS HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS REQUIRED TO PROVIDE ALL CONSTRUCTION STAKING ON THIS PROJECT. STAKING FOR GRADES AND	6.	THE ESC FACILITIES SHOW DURING THE CONSTRUCTION RELOCATION OF DITCHES
	ALIGNMENT SHALL BE PERFORMED BY AN ENGINEERING OR SURVEYING FIRM LICENSED AND CAPABLE OF PERFORMING SUCH WORK. RIGHT OF WAY AND EASEMENT LIMITS MUST BE CLEARLY IDENTIFIED IN THE FIELD DURING CONSTRUCTION.	7.	THE SITE, ONTO PUBLIC RI
8.	CONTRACTOR SHALL RESTORE MARKERS FOR FRONT PROPERTY CORNERS THAT ARE DISTURBED BY CONSTRUCTION. MARKERS SHALL BE RE-ESTABLISHED BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF WASHINGTON.	8.	DEBRIS.
9.	A PRECONSTRUCTION CONFERENCE AND 24-HOUR NOTICE WILL BE REQUIRED PRIOR TO STARTING CONSTRUCTION OR RESTARTING CONSTRUCTION AFTER A PERIOD OF MORE THAN 5 DAYS OF NO WORK BEING PERFORMED.		DAILY OR MORE FREQUEN
10.	CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO CONDITIONS EQUAL OR BETTER TO THOSE FOUND PRIOR TO CONSTRUCTION.	9.	CLEAN OR REMOVE AND R AVAILABLE STORAGE. ALL CLEANING OPERATION SH/
11.	THE CONTRACTOR SHALL DETERMINE THE SCOPE, TYPE, SIZE, QUANTITY, METHOD OF INSTALLATION, OPERATION, AND REMOVAL OF THE DEWATERING SYSTEM NECESSARY TO KEEP THE EXCAVATION SITE DEWATERED TO STABILIZE THE SOILS FOR CONSTRUCTION. THE DEWATERING SYSTEM MUST BE LOCATED WITHIN THE CONSTRUCTION EASEMENT.	10). STOCKPILES ARE TO BE LO COVER, SEEDING OR MULC
12.	THE CONTRACTOR SHALL DISCHARGE WATER FROM THE DEWATERING SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF STATE AND LOCAL REGULATIONS AND THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS. AT NO TIME SHALL	11	I. WHERE STRAW MULCH FO THICKNESS OF TWO INCHE
	SILT LADEN WATER BE DISCHARGED OFF SITE. SEE EXISTING SITE AND TESC PLAN FOR ADDITIONAL STORMWATER NOTES.	12	ANTICIPATED FOR A PERIC
13.	THE CONTRACTOR SHALL CLEANUP ALL AREAS AFFECTED BY THEIR ACTIVITIES TO THE SATISFACTION OF THE CITY REPRESENTATIVE BY THE END OF EACH WORKING DAY OR MORE FREQUENTLY IF REQUIRED BY THE CITY REPRESENTATIVE. THIS INCLUDES REMOVAL OF ALL DUST, MUD, ROCKS, ASPHALT DEBRIS, AND REFUSE FROM STREETS, SIDEWALKS,		IMMEDIATELY STABILIZED BLANKETS, ETC.).
	DRIVEWAYS, AND ANY OTHER AREAS AFFECTED BY THE CONSTRUCTION ACTIVITIES. FAILURE TO CLEANUP TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE WILL NECESSITATE A SHUTDOWN OF THE PROJECT UNTIL CLEANUP IS PROPERLY PERFORMED. DAILY CLEANUP IS AN INTEGRAL PART OF EROSION AND POLLUTION CONTROL.	13	3. VEGETATION SHALL BE ES MINIMIZE EROSION. AREAS ARE TO BE SEEDED WITH A THE SEDIMENT BASIN EMB
14.	UNDER THIS CONTRACT HAS BEEN INSTALLED, TESTED, AND APPROVED IN WRITING BY THE OWNER. A TEMPORARY PUMPING SYSTEM CAN BE INSTALLED DURING CONSTRUCTION TO ALLOW FOR CONSTRUCTION OF THE PROPOSED LIFT STATION TO BE COMPLETED. THE CONTRACTOR SHALL PROVIDE A PLAN TO THE OWNER FOR APPROVAL THAT DETAILS THE PROPOSED METHOD OF KEEPING THE LIFT STATION OPERATIONAL DURING THE CONSTRUCTION WORK. INSTALLATION OF THE TEMPORARY PUMPING SYSTEM SHALL NOT BEGIN UNTIL WRITTEN APPROVAL HAS BEEN OBTAINED FROM THE OWNER. A HIGH LEVEL ALARM FLOAT SHALL BE CONNECTED TO THE EXISTING TELEMETRY SYSTEM FOR PROVIDING NOTIFICATION TO THE OWNER IF THE TEMPORARY SYSTEM HAS FAILED. THE CONTRACTOR MUST RESPOND TO ANY TEMPORARY SYSTEM	14	
4	FAILURE.		PIPE LENGTH
15.	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES REQUIRED TO PERFORM THE WORK.		

SEWER FORCE MAIN CONSTRUCTION NOTES

- GRAVITY MAIN TRENCH, FORCE MAIN TRENCH, AND ALL EXCAVATED AREAS SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS AND WITH SECTIONS 7-9.3(10) AND 7-9.3(11) OF THE STANDARD SPECIFICATIONS. COMPACTION TESTING SHALL BE REQUIRED DURING BACKFILLING OPERATIONS ON ALL PIPE, ALL OPEN CUTS AND/OR CROSSINGS WITHIN PAVED OR TRAVELED AREAS AND AT THE DISCRETION OF THE OWNER. IF TRENCH BACKFILL DOES NOT MEET COMPACTION REQUIREMENTS, CONTRACTOR SHALL EXCAVATE, RE-COMPACT AND RETEST MATERIAL AT CONTRACTOR'S EXPENSE.
- ENGINEER-APPROVED THRUST RESTRAINTS ARE REQUIRED FOR ALL UNRESTRAINED FITTINGS. THRUST BLOCKING IS THE PREFERRED METHOD UNLESS OTHERWISE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PIPE JOINT RESTRAINT SO THAT THE PIPE DOES NOT SEPARATE DUE TO THERMAL EXPANSION, UNRESOLVED THRUST FORCES, OR DESTABILIZATION OF STEEP SLOPES.
- AT POINTS WHERE EXISTING THRUST BLOCKING EXISTS, MINIMUM CLEARANCE OF UNDISTURBED SOIL BETWEEN THE CONCRETE BLOCKING AND PROPOSED BURIED UTILITIES OR STRUCTURES SHALL BE 5 FEET.
- THE CONTRACTOR SHALL PERFORM PRESSURE TESTING IN ACCORDANCE WITH THE SPECIFICATIONS TO 100 PSI FOR THE FORCE MAIN PIPING, UNLESS OTHERWISE APPROVED. THE ENGINEER AND OWNER HAVE DISCRETION TO MODIFY THE TESTING REQUIREMENTS AS DEEMED APPROPRIATE.

FLANGE x FLANGE (FLxFL) PIPE MEASURED FROM FACE OF FLANGE TO FACE OF FLANGE.

FLANGE x PLAIN END (FLxPE) PIPE MEASURED FROM FACE OF FLANGE TO CENTER OF FITTING.

PLAIN END x PLAIN END (PExPE) PIPE MEASURED FROM CENTER OF FITTING TO CENTER OF FITTING.

RESTRAINED JOINT x RESTRAINED JOINT (RJxRJ) PIPE MEASURED FROM CENTER OF FITTING TO CENTER OF FITTING.

FITTINGS ARE ASSUMED TO BE STANDARD LENGTH 125#, 250# FLANGED OR COMPACT CLASS 350 MECHANICAL JOINTS. CONTRACTOR RESPONSIBLE FOR VERIFYING LENGTHS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE INTO ACCOUNT ANY VARIATIONS IN FITTING DIMENSIONS.

TESC GENERAL NOTES

AN NOTES FOR ADDITIONAL REQUIREMENTS.

SION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF RAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, UTILITIES, ETC.).

OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL ROVED, AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.

IE CLEARING LIMITS INDICATED BY THE TEMPORARY CONSTRUCTION EASEMENTS AND THE SHOWN ON THIS PLAN (INCLUDING INDIVIDUAL TREES TO BE SAVED) SHALL BE CLEARLY PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND G LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE OR FOR THE DURATION OF CONSTRUCTION.

OWN ON THIS PLAN MUST BE CONSTRUCTED AS OUTLINED ON THE TYPICAL CONSTRUCTION HA MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE PLICABLE WATER STANDARDS.

DWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. TION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G. ADDITIONAL SUMPS, S AND SILT FENCES. ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS.

S TO THE SITE SHALL BE ONLY AS SHOWN ON THE APPROVED PLANS. ALL VEHICLES LEAVING RIGHTS OF WAY, SHALL BE CLEANED TO PREVENT "TRACKING" OF MUD, DIRT OR OTHER

L CLEAN ACCESS STREETS AND RIGHT-OF-WAY USING ONLY VACUUM SWEEPERS AT LEAST ENTLY AS MAY BE NECESSARY AND SO DIRECTED BY THE CITY.

REPLACE INLET PROTECTION DEVICES WHEN SEDIMENT HAS FILLED ONE-THIRD OF THE LL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED BY TEMPORARY SECURED PLASTIC JLCHING. HYDROSEEDING IS PREFERRED.

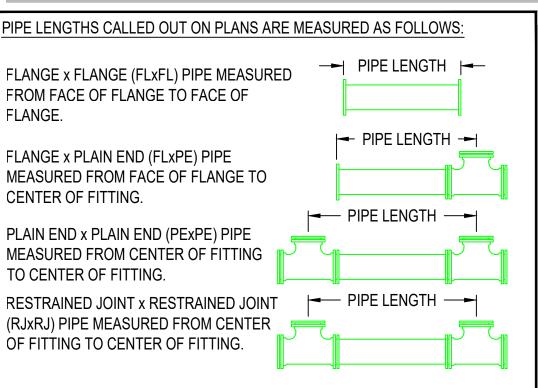
FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM HES.

VEGETATION, INCLUDING ROADWAY EMBANKMENTS, WHERE NO FURTHER WORK IS RIOD OF 2 DAYS DURING THE WET SEASON OR 7 DAYS DURING THE DRY, SHALL BE D WITH THE APPROVED ESC METHODS (E.G. SEEDING, MULCHING, NETTING, EROSION

ESTABLISHED ON AREAS DISTURBED OR ON AREAS OF CONSTRUCTION AS NECESSARY TO AS TO BE ROUGH GRADED WITH FINISHED GRADING TO FOLLOW NEAR PROJECT COMPLETION H ANNUAL, PERENNIAL OR HYBRID RYE GRASS. THIS ALSO INCLUDES PERIMETER DIKES AND MBANKMENT. HYDROSEEDING IS PREFERRED.

IG FINISH GRADING. PERMANENT VEGETATION WILL BE APPLIED AS APPROVED PER THE RENT WSDOT STANDARDS AND SPECIFICATIONS AND THE CITY OF LYNNWOOD

TH MEASUREMENTS



NORTHING AND **EASTING POINTS**

TEES:	×	
BENDS:		

EXISTING UTILITIES

- ENGINEER AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. THE SOURCE OF INFORMATION GENERALLY CONSISTS OF CONSTRUCTION RECORDS, UTILITY LOCATES, AND OTHER DATA OBTAINED VERBALLY FROM OFFICIALS ASSOCIATED WITH THE PARTICULAR UTILITY. OWNER AND ENGINEER DO NOT GUARANTEE AND DO NOT ASSUME ANY RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION. IT IS UNDERSTOOD THAT OTHER ABOVE GROUND AND UNDERGROUND FACILITIES NOT SHOWN ON THE PLANS MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN TO AVOID DAMAGE AND/OR DISTURBANCE TO SUCH UTILITIES, AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. CONTRACTOR SHALL PRESERVE, PROTECT AND SUPPORT ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION.
- OVERHEAD UTILITIES: NOT ALL OVERHEAD UTILITIES MAY BE SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO INDEPENDENTLY VERIFY ALL OVERHEAD UTILITIES. THE CONTRACTOR SHALL ACCOUNT FOR ACCOMMODATING ALL OVERHEAD UTILITIES IN HIS BID AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR FACILITATING OVERHEAD UTILITIES.
- POWER AND WATER: WHERE THESE UTILITIES CROSS THE PROPOSED SEWER MAIN, THE DEPTH OF EACH IS SHOWN ON THE PROFILES AND IS BASED ON TYPICAL LAYING DEPTHS FOR EACH OF THESE UTILITIES. ACTUAL DEPTHS ARE UNKNOWN AND MAY VARY SIGNIFICANTLY. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF UTILITY CROSSING DEPTH CONFLICTS ARISE.
- PROVIDE STYROFOAM CUSHION BETWEEN PIPING AT PIPE CROSSINGS WHERE PIPES CROSS WITH FEWER THAN 12 INCHES OF VERTICAL SEPARATION. A SAND CUSHION MAY BE USED IN AREAS WHERE ADEQUATE COMPACTION CAN BE ACHIEVED AND AS APPROVED BY THE OWNER.

SECTION AND DETAIL REFERENCES

THE FOLLOWING CONVENTIONS HAVE BEEN USED WITHIN THESE DRAWINGS TO REFER THE READER BETWEEN THE SECTION/DETAIL AND THE PLAN FROM WHICH IT IS REFERENCED. REFERENCE BUBBLES

X PLAN REFERENCE BUBBLE - REFERS READER BACK TO THE PLAN FROM WHICH THE DETAIL OR SECTION ORIGINATED.



WHERE. ID = SECTION/DETAIL REFERENCE NUMBER ## = DRAWING NUMBER ON WHICH DETAIL ORIGINATED OR RESIDES.

SECTION/DETAIL REFERENCE NUMBER CONVENTIONS:

SECTIONS OR ELEVATIONS SHOULD HAVE A LETTER REFERENCE NUMBER (A THROUGH ZZ). DETAILS SHOULD HAVE AN ALPHANUMERIC REFERENCE NUMBER (A-Z OR 1-1799). DISCIPLINE SPECIFIC STANDARD DETAILS FOLLOW THE DIVISION NUMBER.

EXAMPLES: 2XX = SITE WORK OR CIVIL STANDARD DETAILS 3XX = CONCRETE STANDARD DETAILS 4XX = MASONRY STANDARD DETAILS

ALL EXISTING UTILITIES INDICATED ON THE PLANS HAVE BEEN PLOTTED FROM THE BEST INFORMATION AVAILABLE TO THE

REFERS READER TO THE DRAWING ON WHICH DETAIL/SECTION REFERENCE BUBBLE -THE DETAIL OR SECTION IS LOCATED.

5XX = STRUCTURAL CONNECTION STANDARD DETAILS

6XX = MECHANICAL STANDARD DETAILS

7XX = ELECTRICAL STANDARD DETAILS

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CITV OF I VNNWOOD					GENERAL NOTES AND INFO I		
			RJF				REVIEW
JOB NO.: 117-098			OMP				BY
ENGINEER: OMP SAVE DATE: Mar 26, 2019 CLIENT: LYNN	REVIEWED: RJF PLOT DATE: Mar 26, 2019 FILENAME: LS8-D-GEN01.DWG	REVISIONS	🔥 03/27/19 ISSUED FOR BIDDING				NO. DATE DESCRIPTION
0"		SCAL	1"	1		EN	2"
DWG		BAR	MEAS	SURES	2" "NO.:		48

SURVEY NOTES

GENERAL NOTES

- THE LOCATIONS OF EXISTING UNDERGROUND UTILITY SYSTEMS, AS SHOWN HEREON, ARE TAKEN FROM UTILITY LOCATE PAINT MARKS OR AS-BUILT PLANS AN APPROXIMATE WAY ONLY.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. ALL LOCATOR SERVICES SHOULD BE CONTACTED PRIOR TO ANY CONSTRUCTION OR SUBSURFACE EXPLORATION. CALL 1-800-424-5555.
- THIS PROJECT IS LOCATED IN SECTIONS 15 & 22, TOWNSHIP 27 NORTH, RANGE 4 EAST, SNOHOMISH COUNTY WA. CITY OF LYNNWOOD.
- FIELD SURVEY: DECEMBER, 2006 AND SEPTEMBER, 2015
- CONTOUR INTERVAL = 1 FOOT
- THE CONTOURS SHOWN ON THE BRIDGES OVER 37TH AVE AND 196TH STREET REFLECT THE ROAD SURFACE OF ALDERWOOD MALL BLVD AND NOT THE GROUND BELOW.
- THE CATCH BASIN AND MANHOLE LIDS SHOWN ON THIS SURVEY REFLECT THEIR POSITION ON THE SURFACE AND NOT LOCATIONS OF UNDERGROUND STRUCTURES.
- THE CATCH BASINS, STORM DRAIN AND SANITARY SEWER STRUCTURES SHOWN ON THIS SURVEY REFLECT THE CENTER OF THE RIM ON THE SURFACE AND NOT THE LOCATION OF UNDERGROUND STRUCTURES. STORM DRAIN AND SEWER LINES SHOWN ARE DRAWN FROM CENTER OF RIM TO CENTER OF RIM AND MAY NOT REFLECT ACTUAL LOCATION OF UNDERGROUND LINES.
- THE LOCATION AND DIMENSIONS OF UNDERGROUND VAULTS HAVE NOT BEEN VERIFIED AND ARE APPROXIMATE.
- ROW AND PARCEL LINES PER SNOHOMISH COUNTY GIS AND CALCULATED FROM PLANS ON FILE AT THE CITY LYNNWOOD, 196th STREET SW/SR 524 INTERCHANGE DATED SEPT 1997 AND I-5/196th STREET SW INTERCHANGE DATED APRIL/MAY 2001. REFERENCE SURVEYS USED ARE AFN 8411165022, 8506250193, 8703035002, 9110175004, 9603155004 AND 200609225358.

HORIZONTAL DATUM

WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE, NAD 83/91

NOTES FROM ADDITIONAL SURVEY PERFORMED BY AXIS OCTOBER 2018

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY COMPLETED ON OCTOBER 30, 2018 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

NAVD 88

- THIS SURVEY DISCLOSES FACTORS OF RECORD AND ON THE GROUND AFFECTING THE SUBJECT PROPERTY BOUNDARY, BUT IT DOES NOT PURPORT TO LEGALLY RESOLVE RELATED PROPERTY LINE DISPUTES. WHERE AMBIGUITIES ARE NOTED, AXIS RECOMMENDS THAT THE OWNER CONSULT WITH LEGAL COUNSEL TO DETERMINE HOW BEST TO INTERPRET THEIR PROPERTY RIGHTS AND ADDRESS ANY POTENTIAL PROPERTY LINE DISPUTES
- UTILITY LOCATIONS SHOWN HEREON ARE BASED UPON ASBUILT FIELD LOCATION OF EXISTING STRUCTURES. FIELD LOCATION OF UTILITIES BASED ON LOCATOR PAINT MARKINGS AND LOCATIONS BASED ON UTILITY MAPS FROM CITY AND UTILITY DRAWINGS INDICATING REPORTED UTILITY INSTALLATIONS. OTHER UTILITIES MAY EXIST. NO SUB-SURFACE EXPLORATION WAS MADE TO VERIFY UTILITY ROUTINGS AND THE ROUTING OF ALL BURIED UTILITIES SHOULD BE CONFIRMED WITH THE UTILITY PURVEYOR AND EXPOSED IN AREAS CRITICAL TO DESIGN FOR VERIFICATION.
- THE PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN COMPILED FROM VARIOUS PUBLIC SOURCES AND HAVE NOT BEEN ESTABLISHED BY FIELD SURVEY. THEY ARE SHOWN HEREON TO AID IN THE INTERPRETATION OF THE MAP AND SHOULD NOT BE RELIED UPON AS A BOUNDARY SURVEY.
- PRIMARY CONTROL POINTS AND ACCESSIBLE MONUMENT POSITIONS WERE FIELD MEASURED UTILIZING GLOBAL POSITIONING SYSTEM (GPS) SURVEY TECHNIQUES USING LEICA GS14 GPS/GNSS EQUIPMENT EQUIPMENT. MONUMENT POSITIONS THAT WERE NOT DIRECTLY OBSERVED USING GPS SURVEY TECHNIQUES WERE TIED INTO THE CONTROL POINTS UTILIZING LEICA ELECTRONIC 1201 TOTAL STATIONS FOR THE MEASUREMENT OF BOTH ANGLES AND DISTANCES. THIS SURVEY MEETS OR EXCEEDS THE STANDARDS SET BY WACS 332-130-080/090.

TBM 'A'

SET CHISELED SQUARE IN NE CORNER OF POWER VAULTS ELEVATION: 388.42'



SET R.R. SPIKE IN SE FACE OF UTILITY POLE, UP 2.0' ELEVATION: 387.49'

PROJECT DATA

LS4 PROJECT DESCRIPTION:

ADDRESS: ADJACENT TO 18121 ALDERWOOD MALL PARKWAY

THE LYNNWOOD LIFT STATION 4 IMPROVEMENTS PROJECT WILL INCLUDE CONSTRUCTION OF APPROXIMATELY 120 LF OF SANITARY SEWER FORCEMAIN, 100 LF OF SANITARY SEWER GRAVITY MAIN, AND PUMP IMPELLERS AND MOTOR STARTERS REPLACEMENT.

LS8 PROJECT DESCRIPTION: ADDRESS: 3015 ALDERWOOD MALL BLVD

THE LYNNWOOD LIFT STATION 8 IMPROVEMENTS PROJECT WILL INCLUDE ABANDONMENT OF THE EXISTING PUMP STATION, AND PLACEMENT OF NEW WET WELLS, CHECK VALVE VAULTS, METER VAULT, ELECTRICAL PANELS UNDER A PROTECTIVE STRUCTURE AND BYPASS PORT. THE TWO NEW WET WELLS WILL EACH HOUSE TWO 1,000 GPM PUMPS. IN CONJUNCTION WITH THE ABOVE IMPROVEMENTS, APPROXIMATELY 120 LF OF SANITARY SEWER FORCEMAIN, 1,075 LF OF SANITARY SEWER GRAVITY MAIN AND 710 LF OF STORM SEWER WILL BE CONSTRUCTED.

- TYPE OF CONSTRUCTION PER IBC: TYPE III-B
- TOTAL ROOF AREA: 172 SF
- OCCUPANCY CLASSIFICATION PER IBC: UTILITY AND MISCELLANEOUS GROUP U
- OCCUPANCY LOAD: N/A

** SEE DWG NO. S01 FOR REQUIRED SPECIAL INSPECTIONS AND DESIGN CODES **

ABANDONMENT NOTES

THE CITY SHALL BE SOLE DETERMINER OF APPROPRIATE ABANDONMENT PROCEDURES AND METHODS. CONTRACTOR SHALL COORDINATE WITH THE CITY TO DETERMINE WHETHER TO SALVAGE OR DISPOSE OF REMOVED FACILITIES. UNUSABLE EQUIPMENT SHALL BE DISPOSED OF BY THE CONTRACTOR. THE FOLLOWING METHODS ARE APPROVED ABANDONMENT PROCEDURES FOR TERMINATED FACILITIES.

LIFT STATION

UPON THE COMPLETE OPERATION OF TEMPORARY PUMPING SYSTEM AND APPROVAL BY THE CITY IN WRITING, THE CONTRACTOR SHALL ABANDON THE EXISTING LIFT STATION AS DETAILED HEREIN ONLY AFTER APPROVAL FROM THE CITY IN WRITING. REMOVE ALL PUMPS, PIPES, FITTINGS, TELEMETRY EQUIPMENT, AND ALL OTHER APPURTENANCES FROM INSIDE THE EXISTING PUMP STATION. REFER TO DWG NOS. C03 AND C04 FOR ITEMS THAT ARE TO BE DISPOSED OF AND ITEMS THAT ARE TO BE RETURNED TO THE CITY.

VERTICAL DATUM

;	AND	ARE	SHOWN	IN	

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	PROPERTY BOUNDARY
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Q	FIRE HYDRANT
×	WATER VALVE
\$	WATER MARKER
Þo	HOSE BIB
w	WATER MAIN
	UTILITY POLE
Ϋ́	UTILITY TRANSFORMER
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P	
OHP	
6	CATCH BASIN (ROUND)
	CATCH BASIN (RECTAN
ST	STORM PIPE
(CS)	SEWER MANHOLE
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Ø	GAS METER
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x x x x	FENCE
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۵	BOLLARD
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	RETAINING WALL
	BUILDING EDGE
	ROADWAY ASPHALT
	CONCRETE
	GRAVEL

SET REBAR
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RIGHT OF WAY
RIGHT OF WAY CENTERLINE
PROPERTY BOUNDARY
EASEMENT
MAJOR CONTOUR
MINOR CONTOUR
WATER METER
FIRE HYDRANT
WATER VALVE
WATER MARKER
HOSE BIB
WATER MAIN
UTILITY POLE
UTILITY TRANSFORMER
TELEPHONE VAULT
POWER VAULT
SITE LIGHT
UNDERGROUND TELEPHONE
UNDERGROUND POWER
OVERHEAD POWER
CATCH BASIN (ROUND)
CATCH BASIN (RECTANGULAR)
STORM PIPE
SEWER MANHOLE
SEWER STRUCTURE
SEWER VALVE
SEWER CLEANOUT
SEWER GRAVITY MAIN
SEWER FORCE MAIN
GAS METER
GAS MAIN
TREE
VEGETATION
ROCK/ROCKERY
EDGE OF WATER
TOP OF SLOPE
FENCE
SITE POST
BOLLARD
CHANNELIZATION
RETAINING WALL
BUILDING EDGE
ROADWAY ASPHALT
CONCRETE
GRAVEL

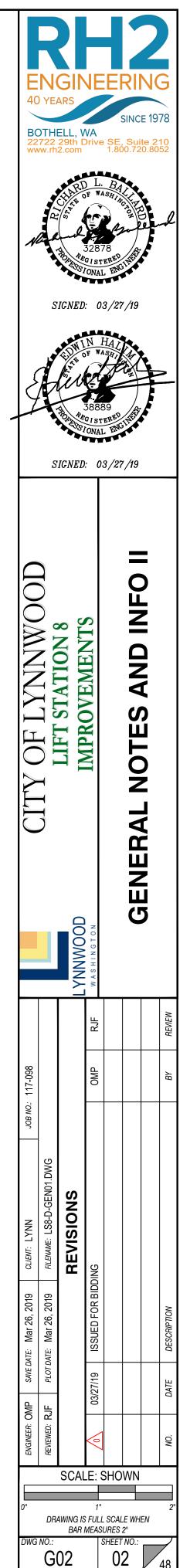
LEGEND

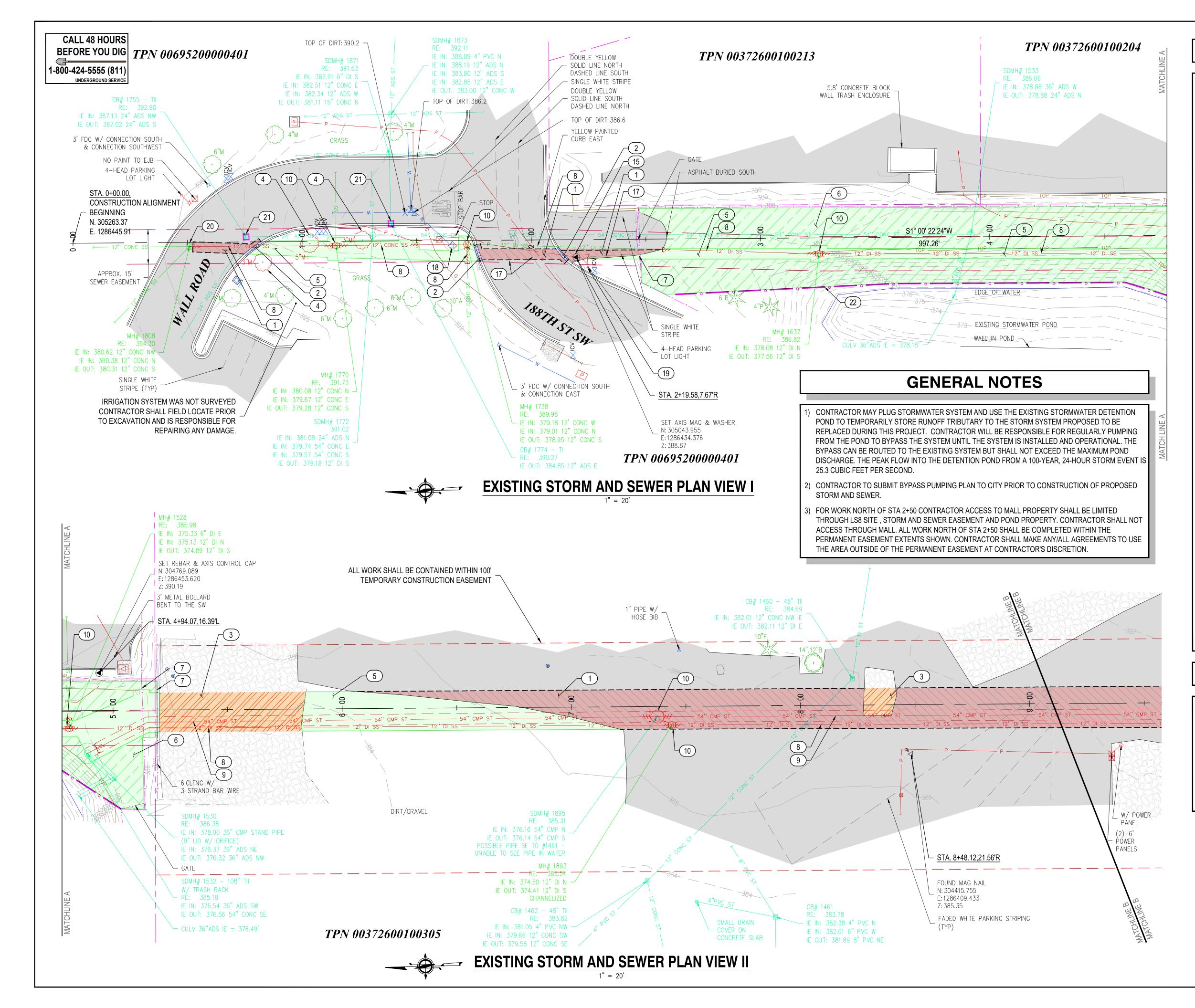
	DSED LEGEND		
	SAWCUT LINE		
/////////	ASPHALT REMOVAL		
**********	CONCRETE REMOVAL		
	GRAVEL REMOVAL		
	VEGETATION REMOVAL AREA		
	CLEARING AND GRUBBING AREA		
	STABILIZED CONSTR. ENTRANCE		
	INLET PROTECTION		
	STRAW WATTLES		
o o	SILT FENCE		
[// //]	UTILITY RELOCATION LIMITS		
SI	TE LEGEND		
1170	MAJOR CONTOUR		
1171	MINOR CONTOUR		
P	ELECTRICAL CONDUIT		
F0	FIBER OPTIC CONDUIT		
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o	ORNAMENTAL FENCE		
	WATER SERVICE		
	CONCRETE		
	ASPHALT		
	CRUSHED SURFACING TOP COURSE		
	DETECTABLE WARNING SURFACE		
<u>011</u>	LITY LEGEND STORM GRAVITY PIPE		
	STORM MANHOLE		
	SEWER GRAVITY PIPE		
\bigcirc	SEWER MANHOLE		
	GRAVEL RESTORATION		
	LANDSCAPE RESTORATION		
	ASPHALT RESTORATION		
	CONCRETE RESTORATION		

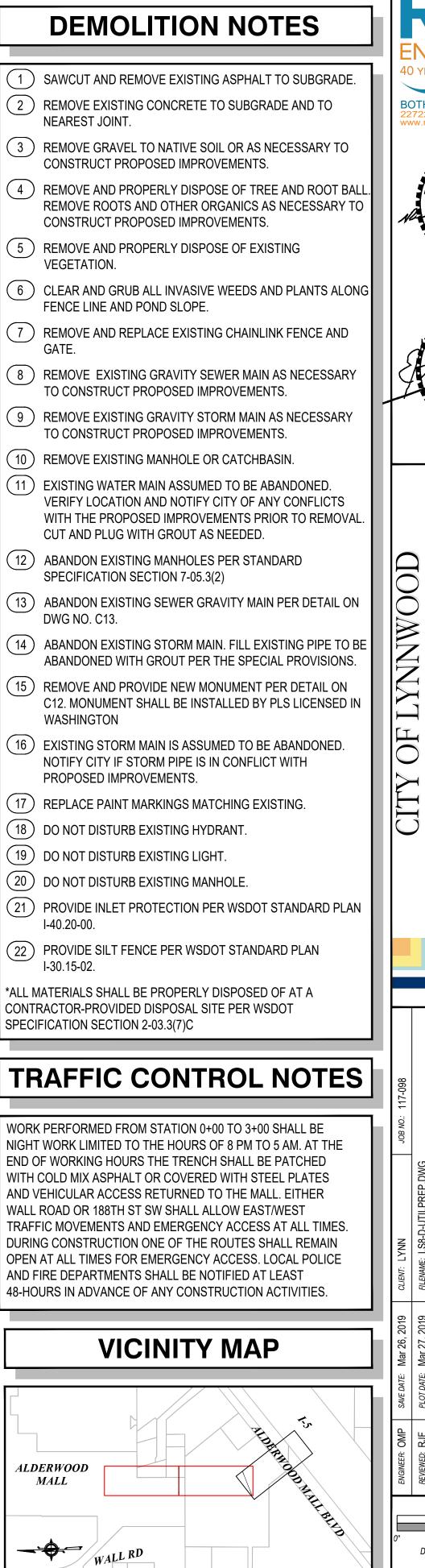
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SHEET INDEX

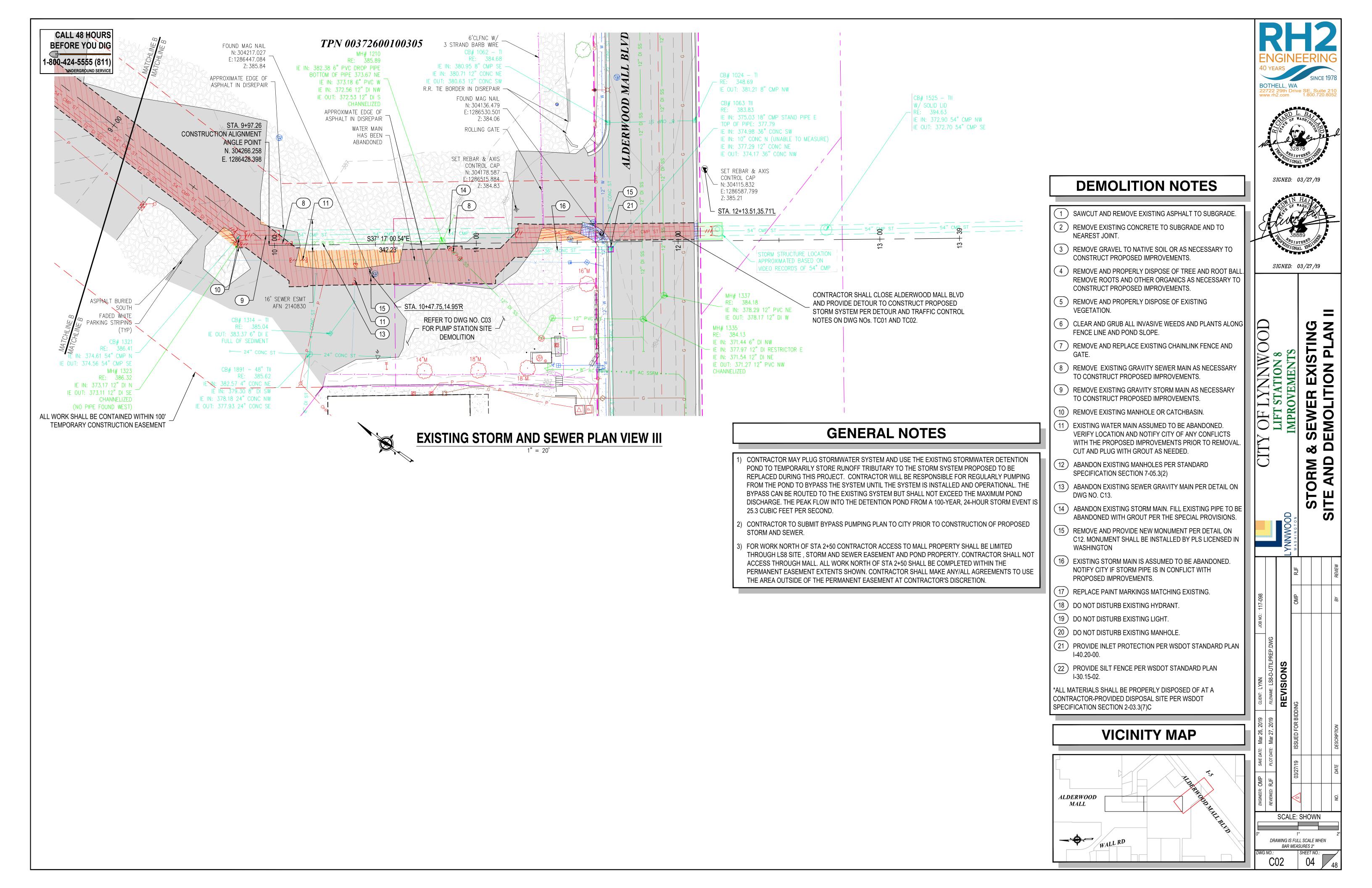
SHEET TITLE	DWG NO.
COVER SHEET	
GENERAL NOTES AND INFO I	G01
GENERAL NOTES AND INFO II	G02
STORM & SEWER EXISTING SITE AND DEMOLITION PLAN I	C01
STORM & SEWER EXISTING SITE AND DEMOLITION PLAN II	C02
EXISTING SITE & DEMOLITION PLAN	C03
EXISTING LIFT STATION DEMOLITION PLAN AND PHOTOS	C04
STORM & SEWER PLAN AND PROFILE I	C05
STORM & SEWER PLAN AND PROFILE II	C06
STORM & SEWER PLAN AND PROFILE III	C07
STORM & SEWER SECTIONS	C08
PROPOSED SITE PLAN	C09
PROPOSED GRADING PLAN	C10
TESC AND CIVIL DETAILS	C11
CIVIL DETAILS I	C12
CIVIL DETAILS II	C13
DETOUR PLAN	TC01
TRAFFIC CONTROL DETAILS	TC02
STRUCTURAL GENERAL NOTES AND DETAILS	S01
STRUCTURAL PLAN	S02
STRUCTURAL SECTIONS I	S03
STRUCTURAL SECTIONS II	S04
ELECTRICAL SHELTER STRUCTURAL DETAILS	S05
MECHANICAL GENERAL NOTES AND DETAILS	M01
EXISTING AND PROPOSED MECHANICAL PLAN	M02
MECHANICAL SECTIONS AND DETAILS I	M03
MECHANICAL SECTIONS AND DETAILS II	M04
MECHANICAL DETAILS	M05
ELECTRICAL LEGEND	E01
ONE-LINE DIAGRAM	E02
ELECTRICAL SITE PLAN	E03
POWER DISTRIBUTION & SIGNAL PLAN	E04
ELECTRICAL SHELTER DETAILS	E05
MOTOR CONTROL CENTER DETAILS	E06
CONTROL LOGIC DIAGRAMS	E07
GENERATOR DETAILS	E08
EXTERIOR JUNCTION BOX DETAILS	E09
ELECTRICAL DETAILS I	E10
ELECTRICAL DETAILS II	E11
ELECTRICAL SCHEDULES	E12
RTU - PANEL LAYOUT	E13
RTU - POWER DIAGRAM	E14
RTU - COMMUNICATIONS DIAGRAM	E15
RTU - PLC INPUT & OUTPUT WIRING I	E16
RTU - PLC INPUT & OUTPUT WIRING II	E17
RTU - PLC INPUT & OUTPUT WIRING III	E18
RTU - PLC INPUT & OUTPUT WIRING IV	E19
LS4 EXISTING SITE PLAN	C100
LS4 SANITARY SEWER PLAN & PROFILE	C101

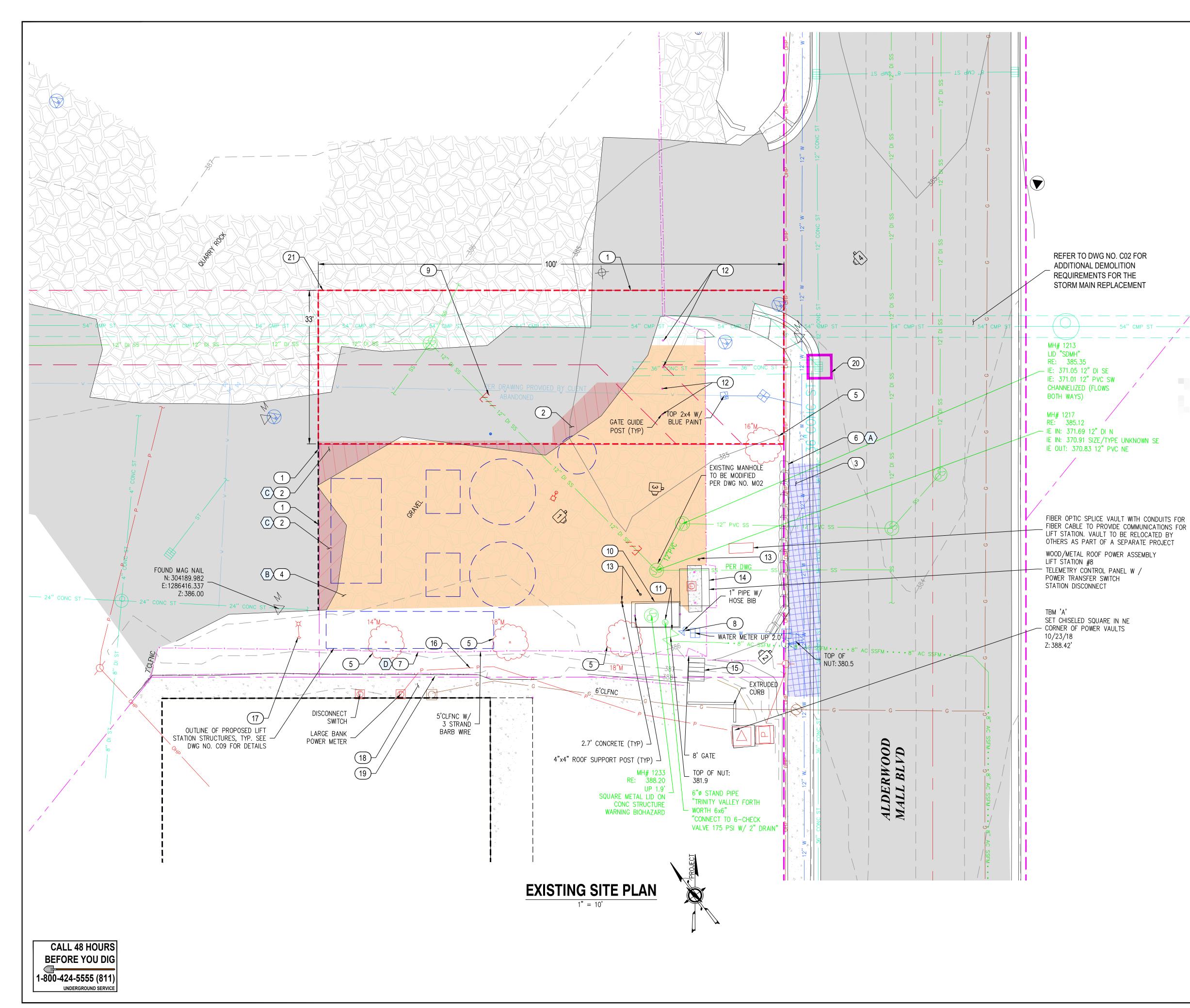


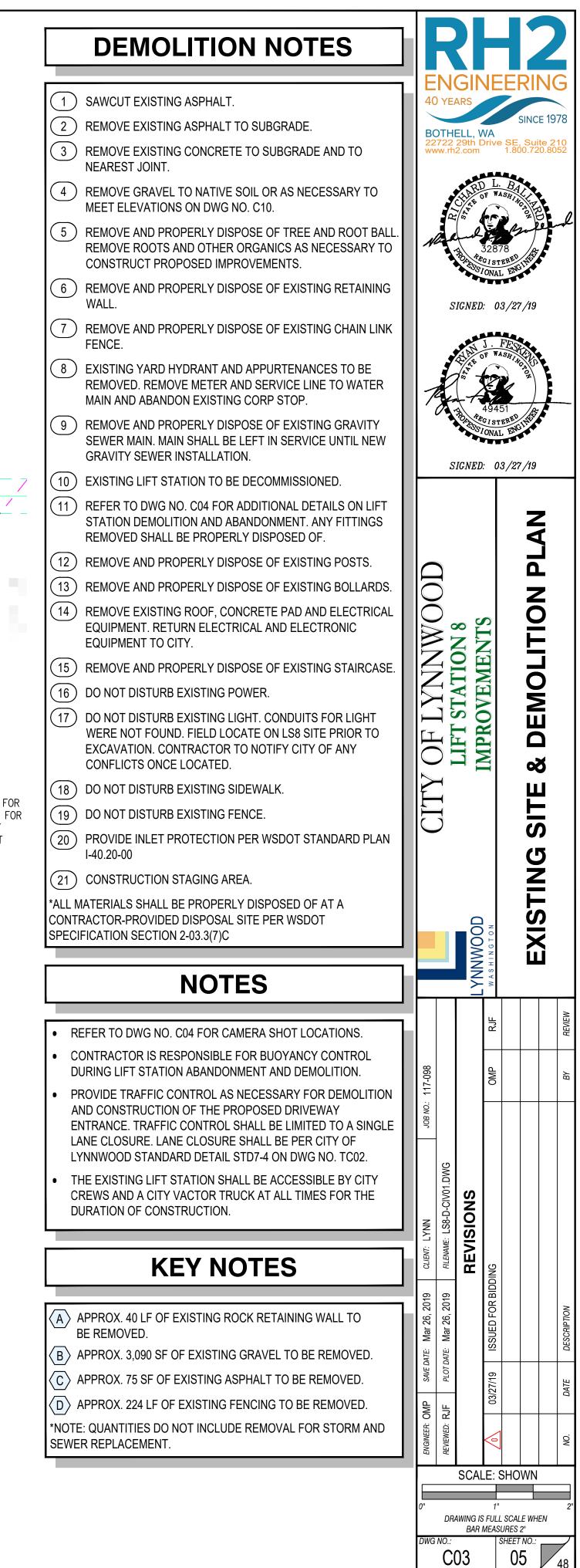


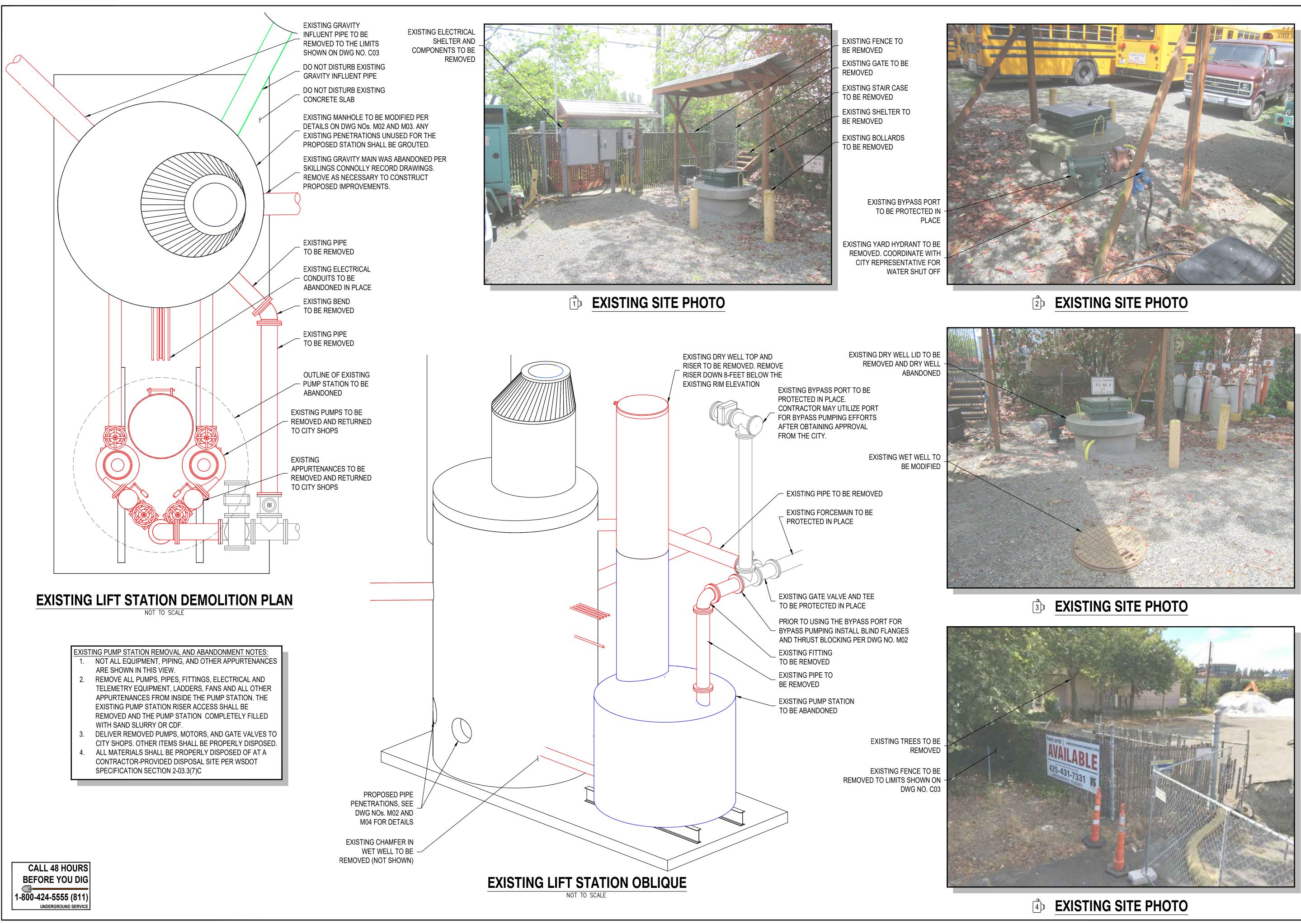


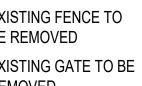
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CITY OF LYNNWOOD LIFT STATION 8 LIFT STATION 8 IMPROVEMENTS STORM & SEWER EXISTING SITE	
JOB NO.: 117-098 OMP RJF CMP RJF	BY REVIEW
ENGINEER: OMP SAVE DATE: Mar 26, 2019 CLIENT: LYNN JOB NO: REVIEWED: RJF PLOT DATE: Mar 27, 2019 FILENAME: LS8-D-UTILPREP.DWG JOB NO: Anticipation PLOT DATE: Mar 27, 2019 FILENAME: LS8-D-UTILPREP.DWG JOB NO: Anticipation 03/27/19 ISSUED FOR BIDDING ISSUED FOR BIDDING JOB NO: JOB NO:	NO. DATE DESCRIPTION
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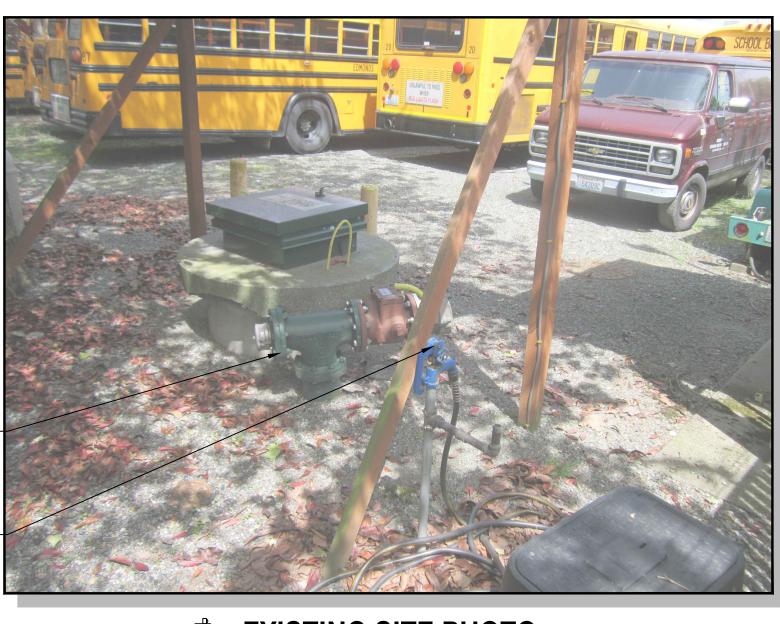






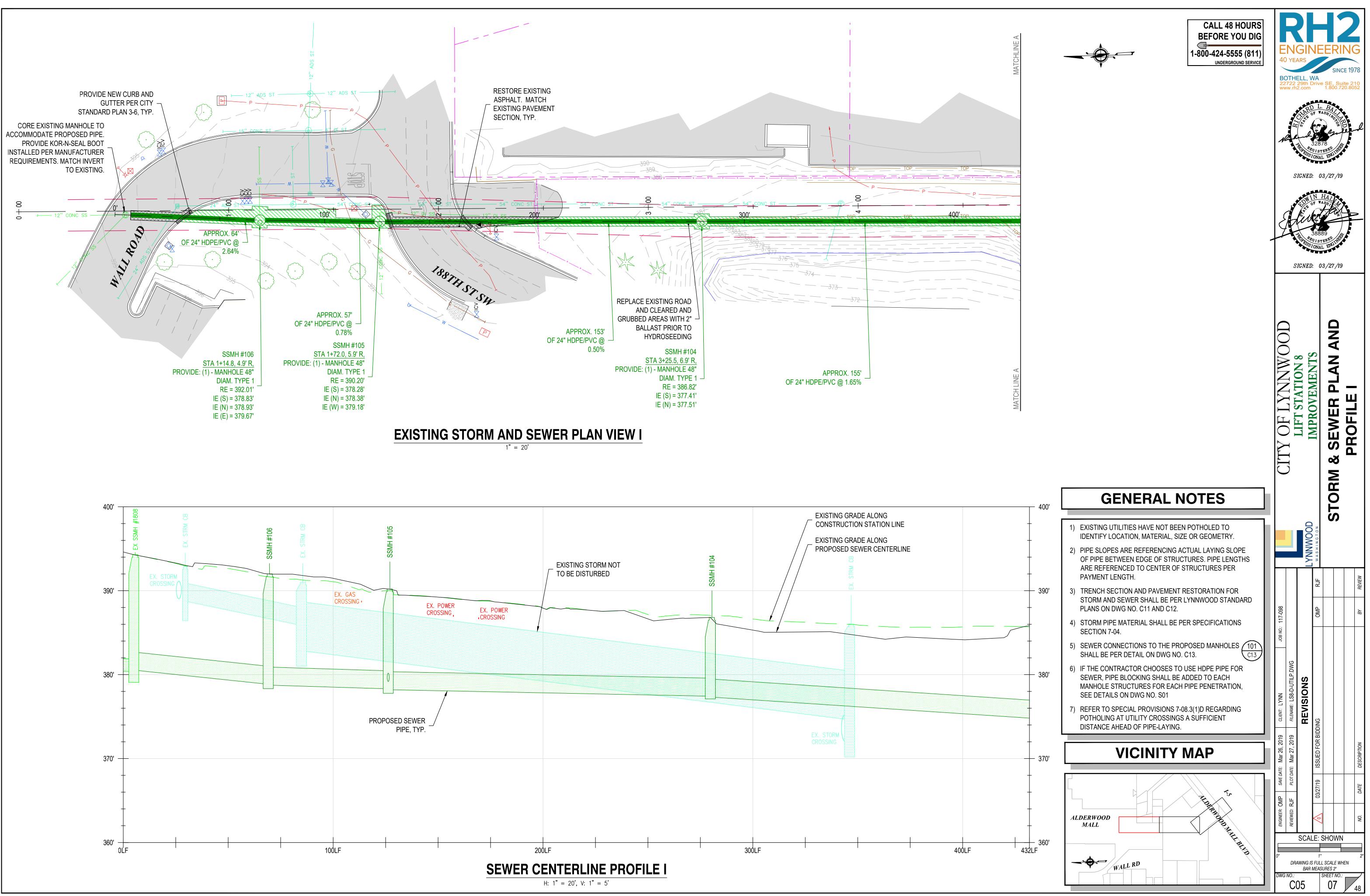


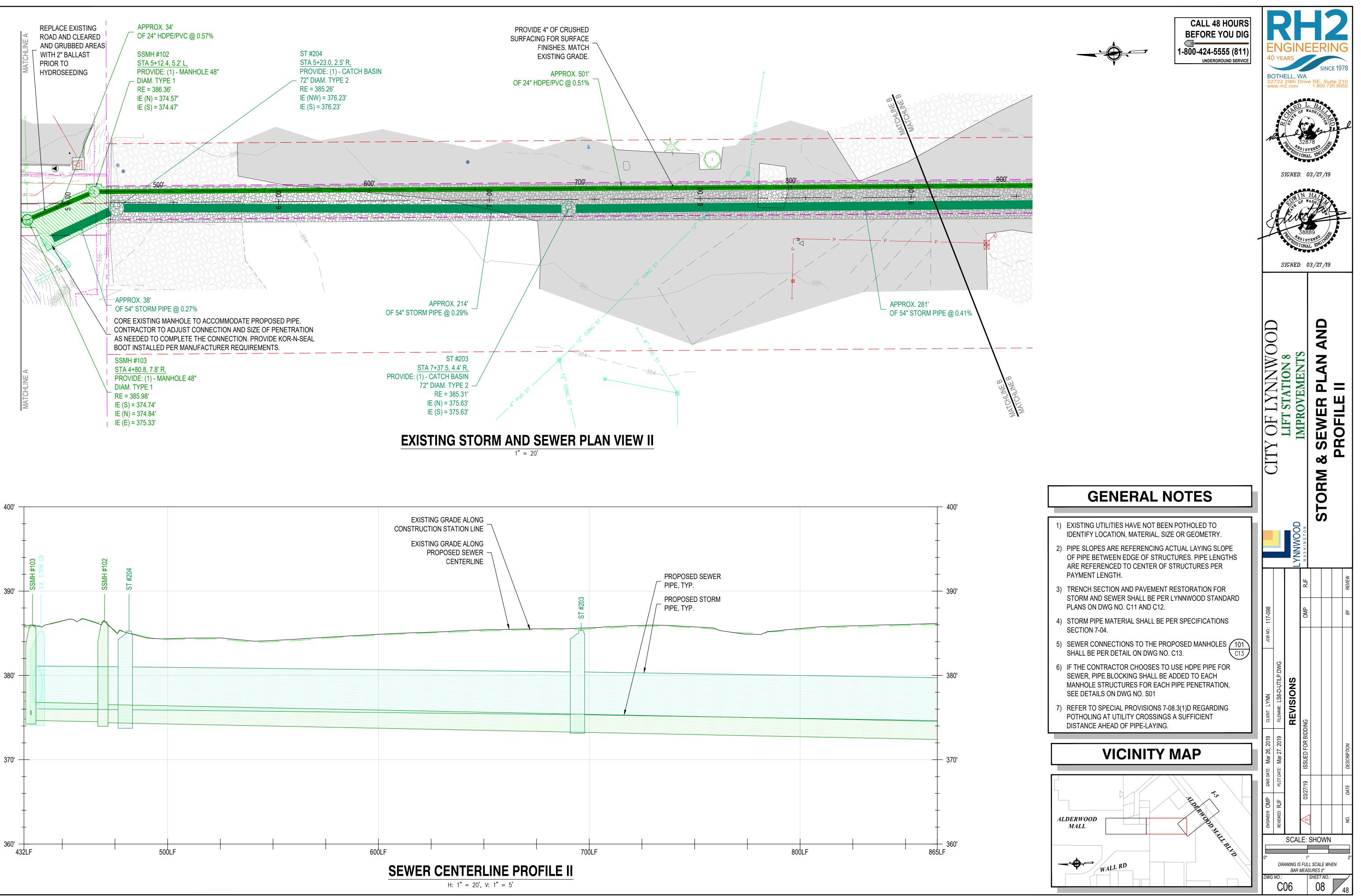


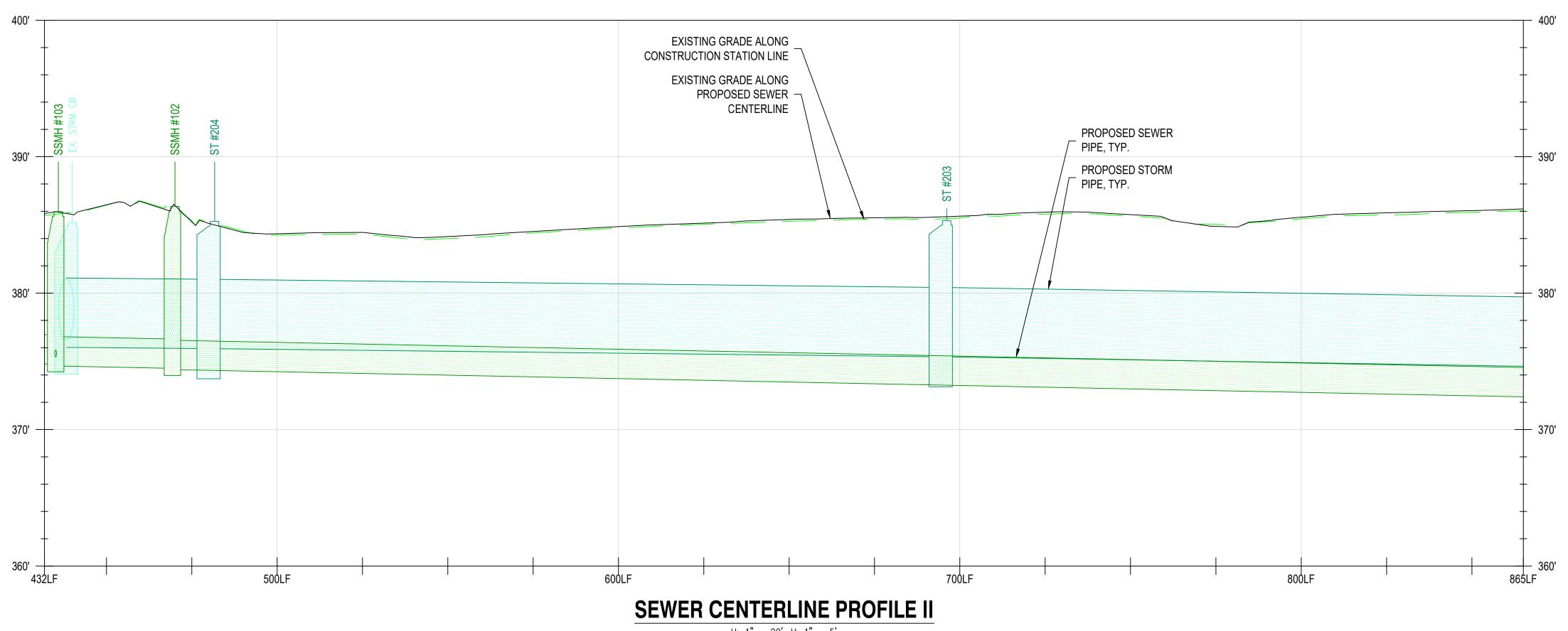


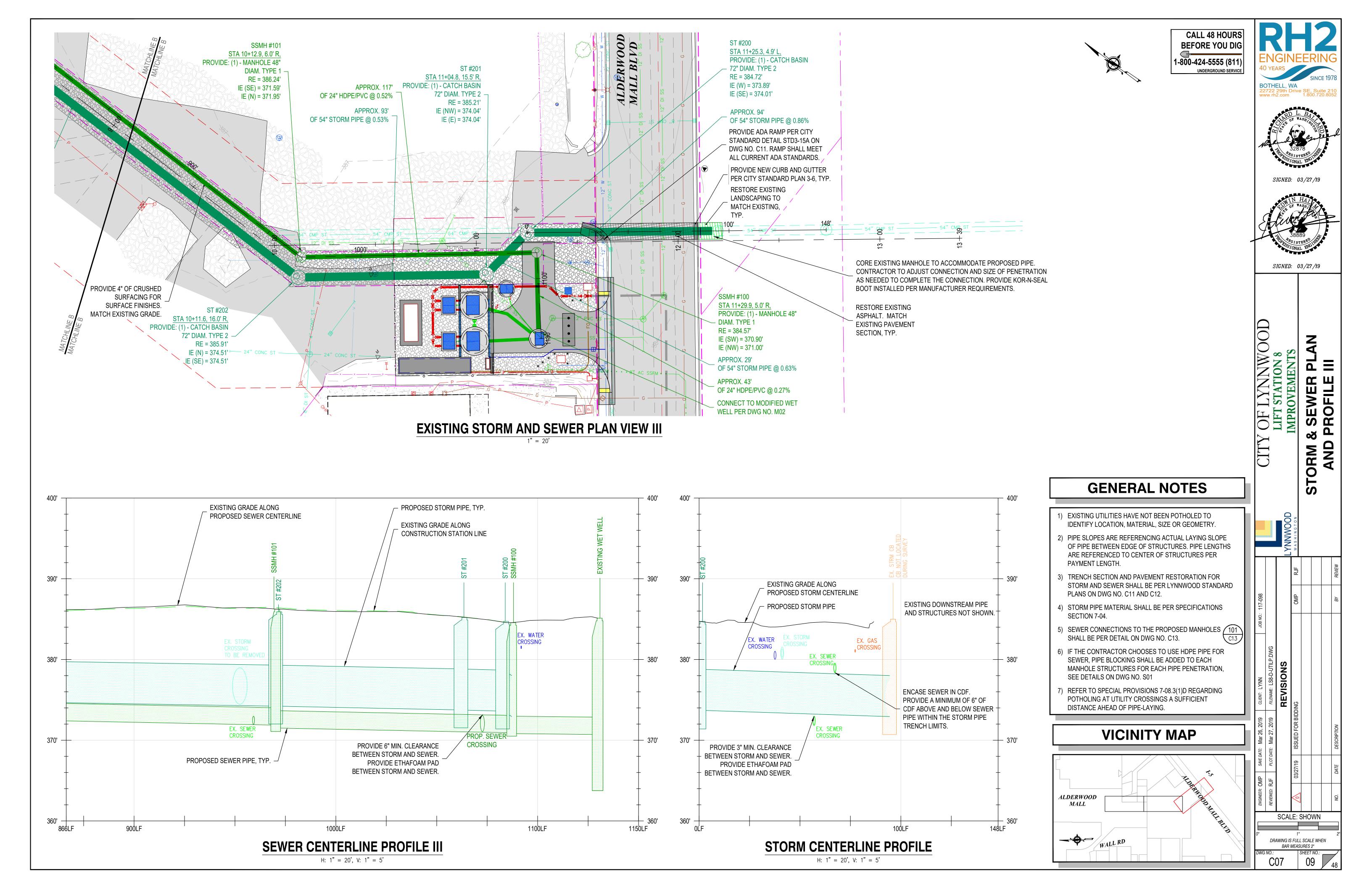


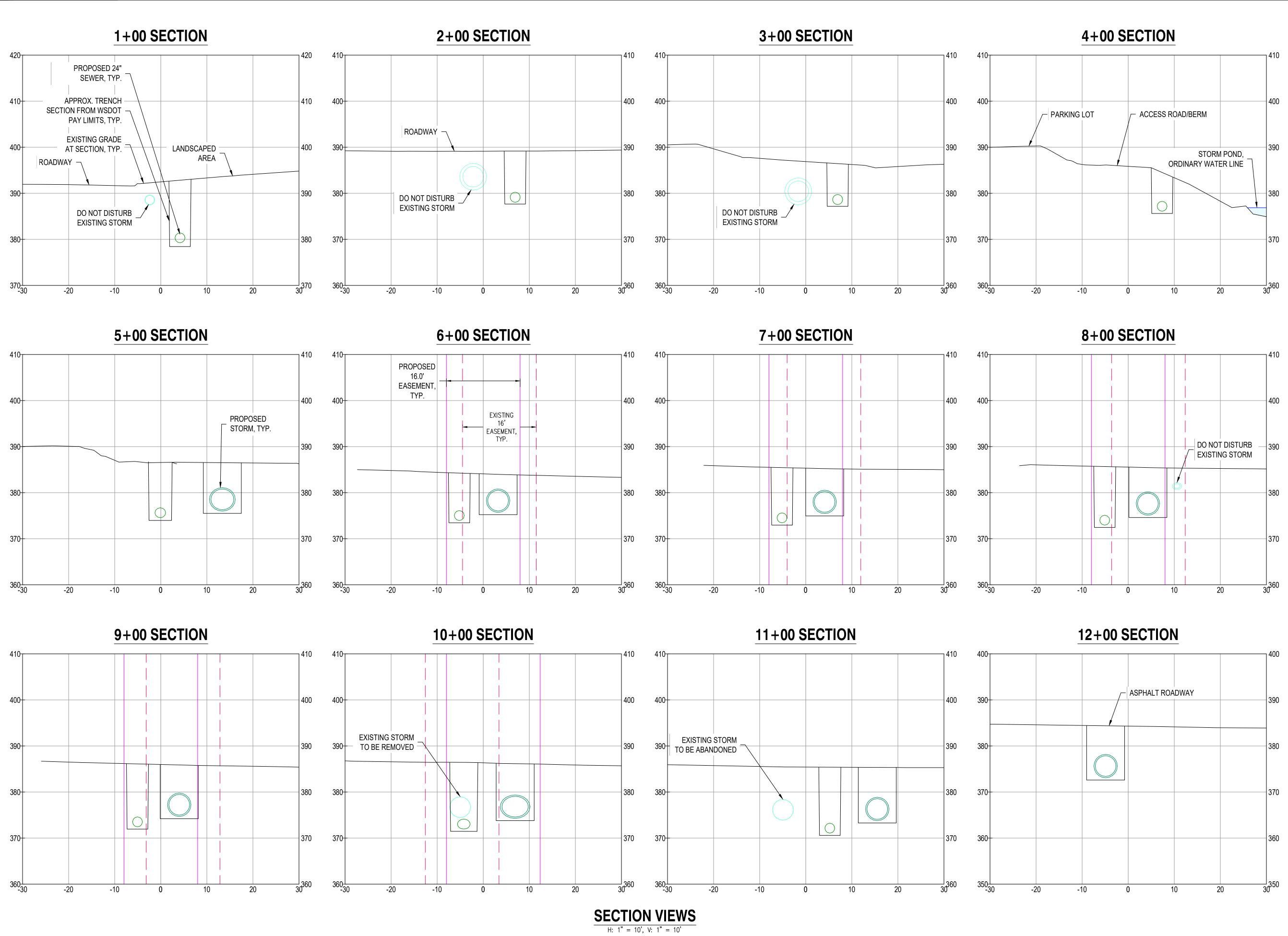
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SAVE DATE: Mar 26, 2019 CLIENT: LYNN	PLOT DATE: Mar 26, 2019	REVISIONS	03/27/19 ISSUED FOR BIDDING				DATE
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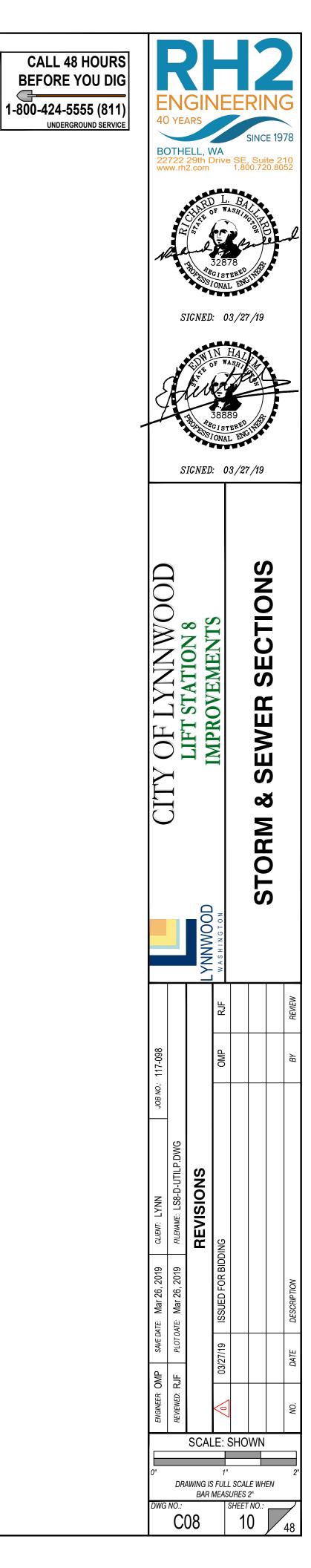


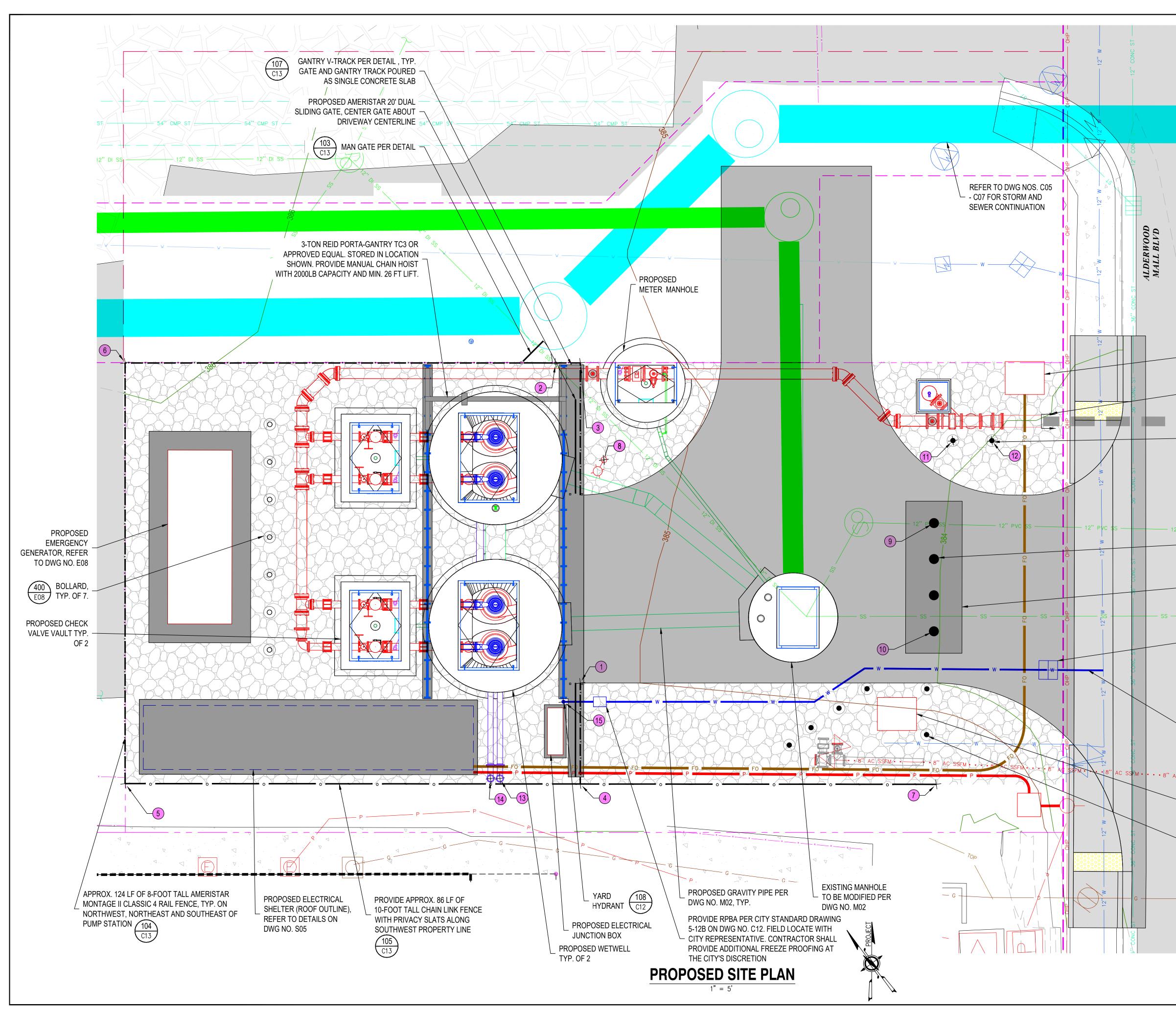




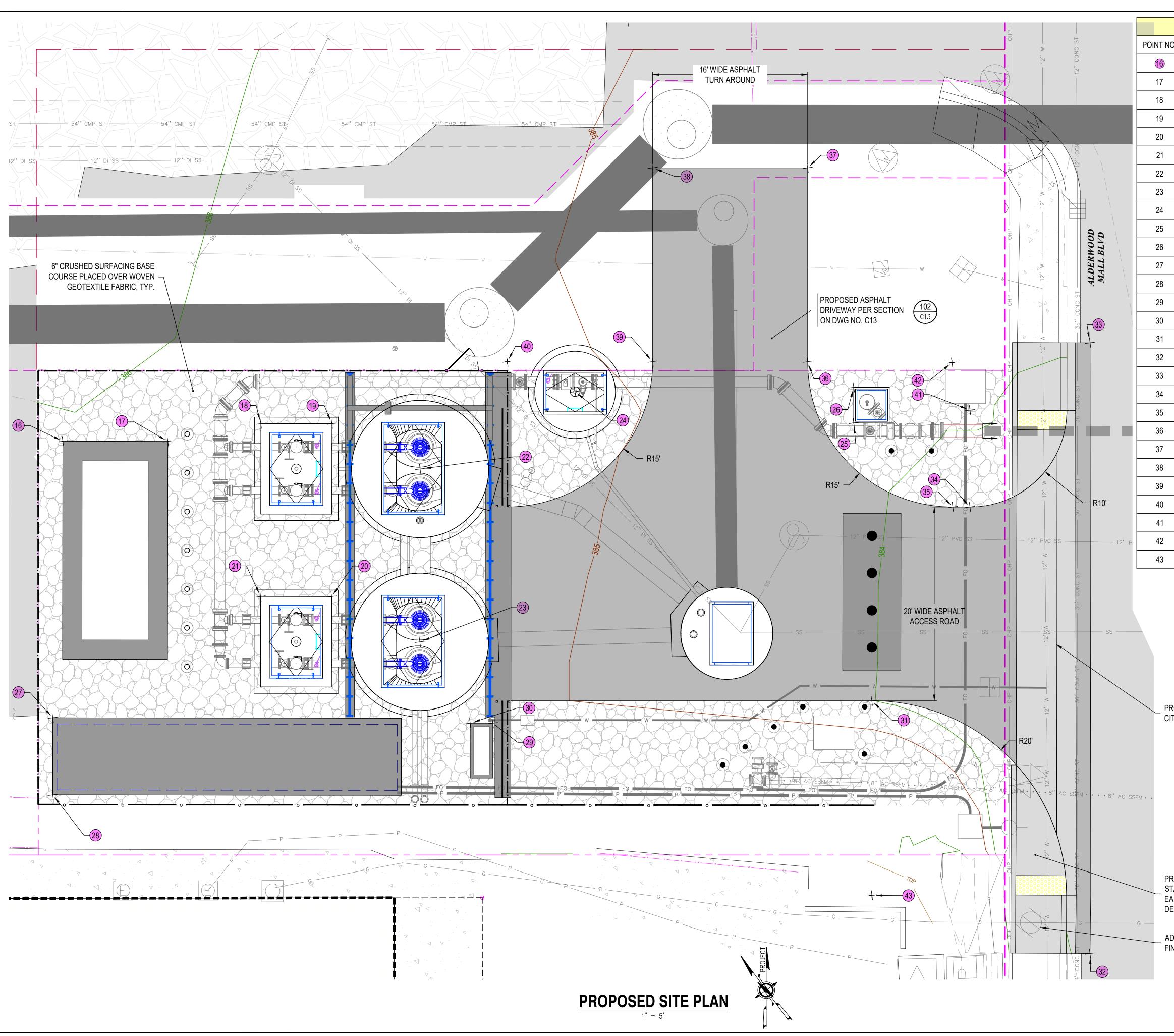








		POI	NT TABLE		1					2
	POINT NO.	NORTHING	EASTING	DESCRIPTION		. N I			ERI	
	1	304145.31	1286451.90	GATE POST) YE		NL		
	2	304168.04	1286477.40	MAN GATE POST	B	отн	ELL, V	NA		CE 1978
	3	304165.96	1286478.99	FENCE CORNER	22 W1	2722 ww.rh	29th 1 12.com	Jrive	SE, Sui 1.800.72	20.8052
	4	304138.80	1286443.35	FENCE CORNER			AR) L. of WA	BAL	• •
	5	304177.34	1286414.03	FENCE CORNER					AGTON	and when
	6	304204.48	1286449.63	FENCE CORNER	/_/		July B	3287	18 18	
	7	304108.64	1286466.29	FENCE CORNER	-		FESS	ONAL	ENGINE	₽
	8	304157.71	1286472.31	SITE LIGHT		S	SIGNEL): 03	3 /27 /19	
	9	304125.69	1286488.25	BOLLARD				J. 1	FEON	
	10	304118.72	1286479.08	BOLLARD				OF WA	SHINGTON	
	11	304129.41	1286496.45	BOLLARD	17	Ľ,	4-7-			
	12	304126.12 304145.95	1286498.96		-		TROFFESS	4945 GISTI	ERED INTE	
	13	304145.95	1286438.03	WET WELL VENT	-	c			3 /27 /19	
	15	304145.52	1286449.23	HOSE BIB	┤┣━	2	IGNEL): U3	5/21/19	
	10	304 143.3Z	1200443.23							
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	AMERISTAR TIT APPROVED EQ									
	REQUIREMENT								٥	
	BOLLARD FOOT - 16'-2"L x 6'-6"D.	•		6'-0"W x						
	MANUFACTURE	ER'S REQUIREN	MENTS.					0 N 0		
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	ON DWG NO. C	12. SIZE TO MA	ATCH EXISTING	6.				RJF		REVIEW
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			COPPER TYPE LOCATE RPB			-				
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			DE MIN. 1' CLE PING PORT AND	\sim	Mar 27, 2019	Mar 27, 20		ED FOF		DESCRIPTION
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			(CALL 48 HOURS			SCA	LE: S	SHOWN	<u> </u>
				FORE YOU DIG	0"	DR			. SCALE WH	2" 1EN
			1-80	0-424-5555 (811) UNDERGROUND SERVICE	DWG	NO.:	BAR	MEASL	URES 2" SHEET NO.:	
						Ú	09		11	48



		S	ITE POINTS	
10.	NORTHING	EASTING	ELEVATION	DESCRIPTION
	304198.05	1286445.39	385.65	EG PAD CORNER
	304189.42	1286451.95	385.65	EG PAD CORNER
	304182.89	1286459.22	385.50	VALVE VAULT CORNER
	304177.05	1286463.66	385.50	VALVE VAULT CORNER
	304166.26	1286449.46	385.50	VALVE VAULT CORNER
	304172.10	1286445.02	385.50	VALVE VAULT CORNER
	304166.98	1286465.46	385.50	WETWELL CENTER
	304156.18	1286451.26	385.50	WETWELL CENTER
	304159.09	1286481.51	385.39	METER MANHOLE CENTER
	304134.26	1286496.39	384.44	POLYPIG VAULT CORNER
	304136.48	1286499.31	384.44	POLYPIG VAULT CORNER
	304181.57	1286422.06	385.65	ELECTRICAL SHELTER CORNER
	304176.76	1286415.73	385.65	ELECTRICAL SHELTER CORNER
	304145.10	1286449.15	385.65	JUNCTION BOX PAD CORNER
	304146.96	1286447.74	385.65	JUNCTION BOX PAD CORNER
	304115.39	1286474.70	384.02	PAVING LIMITS
	304081.66	1286467.61	MATCH EXISTING	PAVING LIMITS
	304119.86	1286517.74	MATCH EXISTING	PAVING LIMITS
	304119.45	1286496.75	383.69	PAVING LIMITS
	304120.85	1286495.68	383.66	PAVING LIMITS
	304141.87	1286498.52	384.84	PAVING LIMITS
	304154.00	1286514.43	384.96	PAVING LIMITS
	304166.72	1286504.73	385.00	PAVING LIMITS
	304154.60	1286488.83	385.40	PAVING LIMITS
	304166.53	1286479.74		CENTER POINT
	304125.51	1286504.71		CENTER POINT
	304129.96	1286507.48		CENTER POINT
	304103.20	1286458.74		CENTER POINT

PROVIDE 20' DRIVEWAY ENTRANCE PER CITY STANDARD DRAWING STD3-12I

PROVIDE CURB RAMP PER CITY STANDARD DRAWING STD3-12I, TYP. EA SIDE OF DRIVEWAY. REFER TO DETAIL FOR GRADING

_ ADJUST GAS VALVE TO FINISHED GRADE

IWOOD N 8 NTS AN Ц OF LYNNW LIFT STATION 8 IMPROVEMENTS GRADING ROPOSED CIT 0 N N REVISIONS SCALE: SHOWN DRAWING IS FULL SCALE WHEN BAR MEASURES 2" SHEET NO. 12 48

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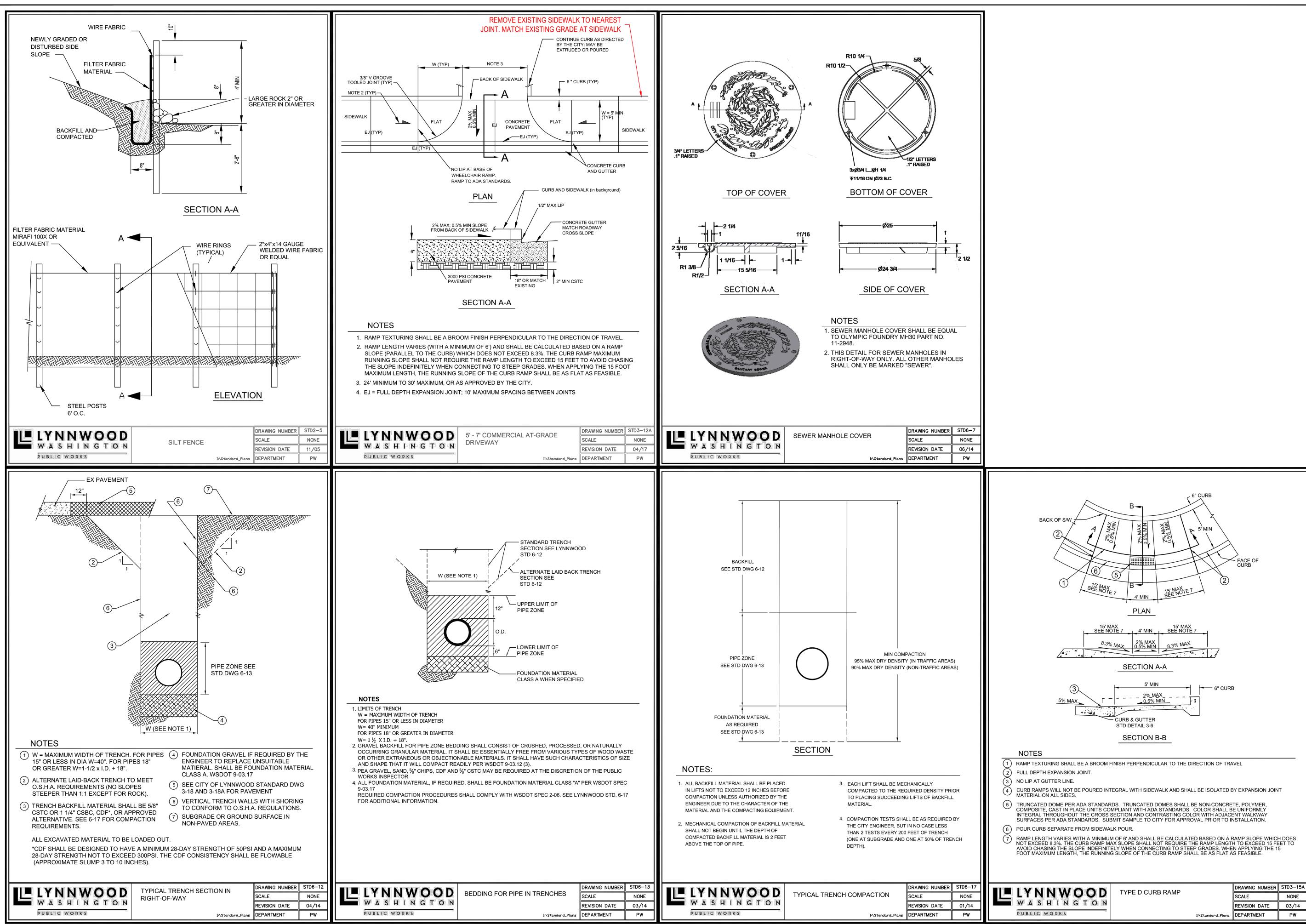
40 YEARS SINCE 1978 BOTHELL, WA 22722 29th Drive SE, Suite 210 www.rh2.com 1.800.720.8052

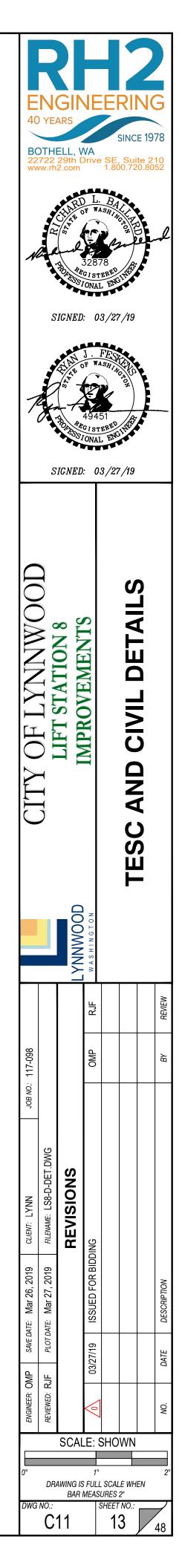
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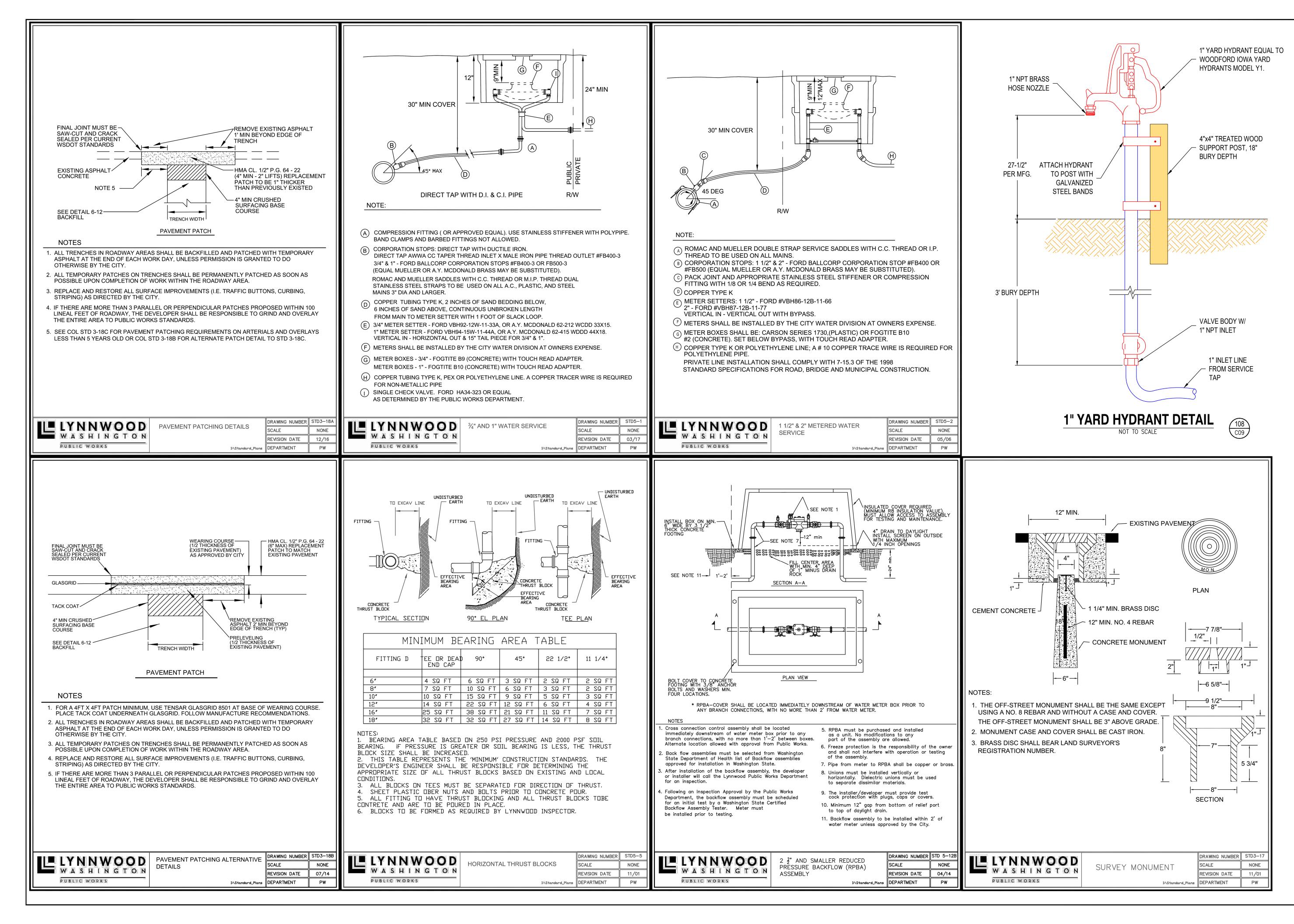
CALL 48 HOURS **BEFORE YOU DIG** 1-800-424-5555 (811) UNDERGROUND SERVICE

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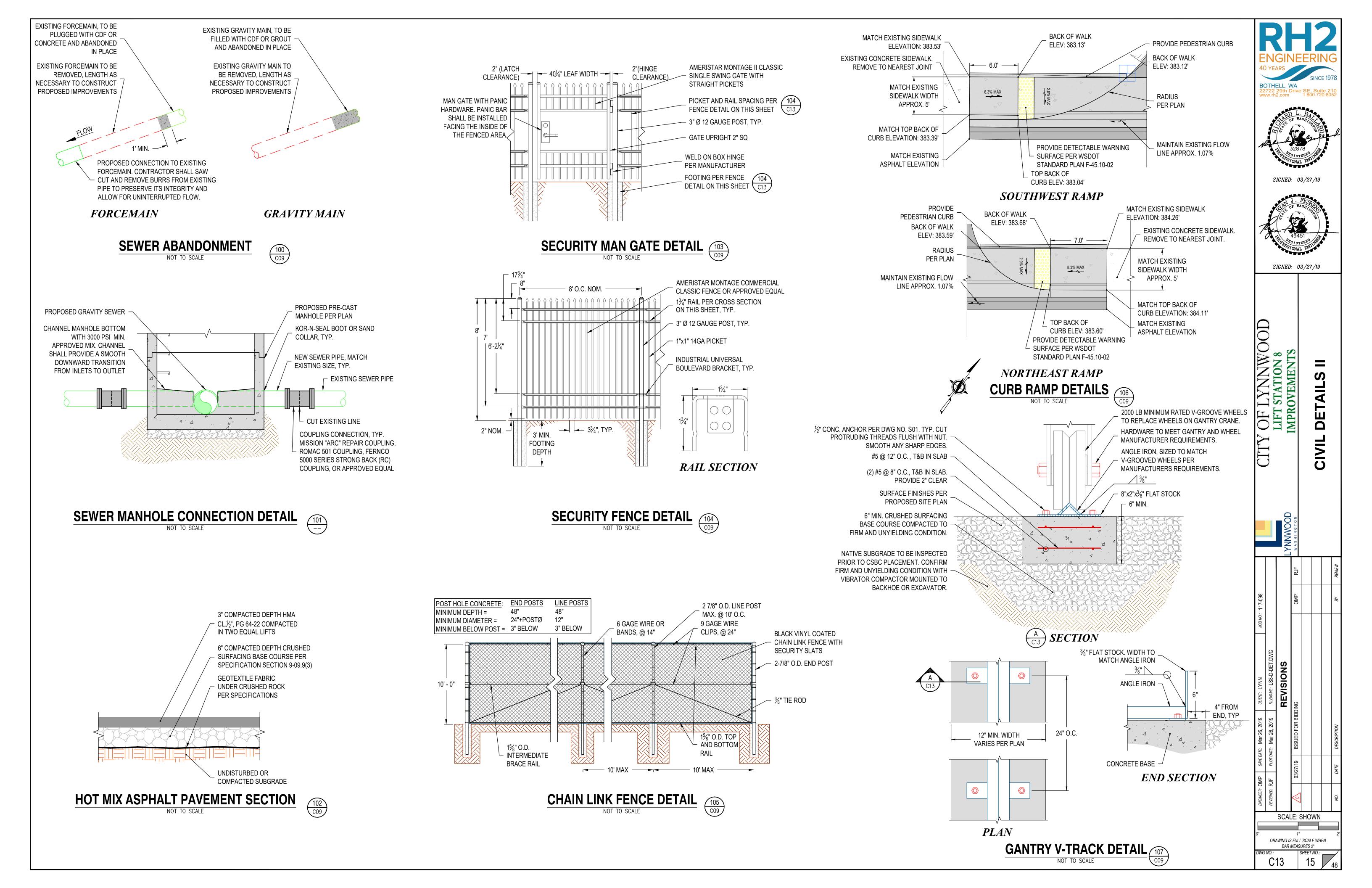


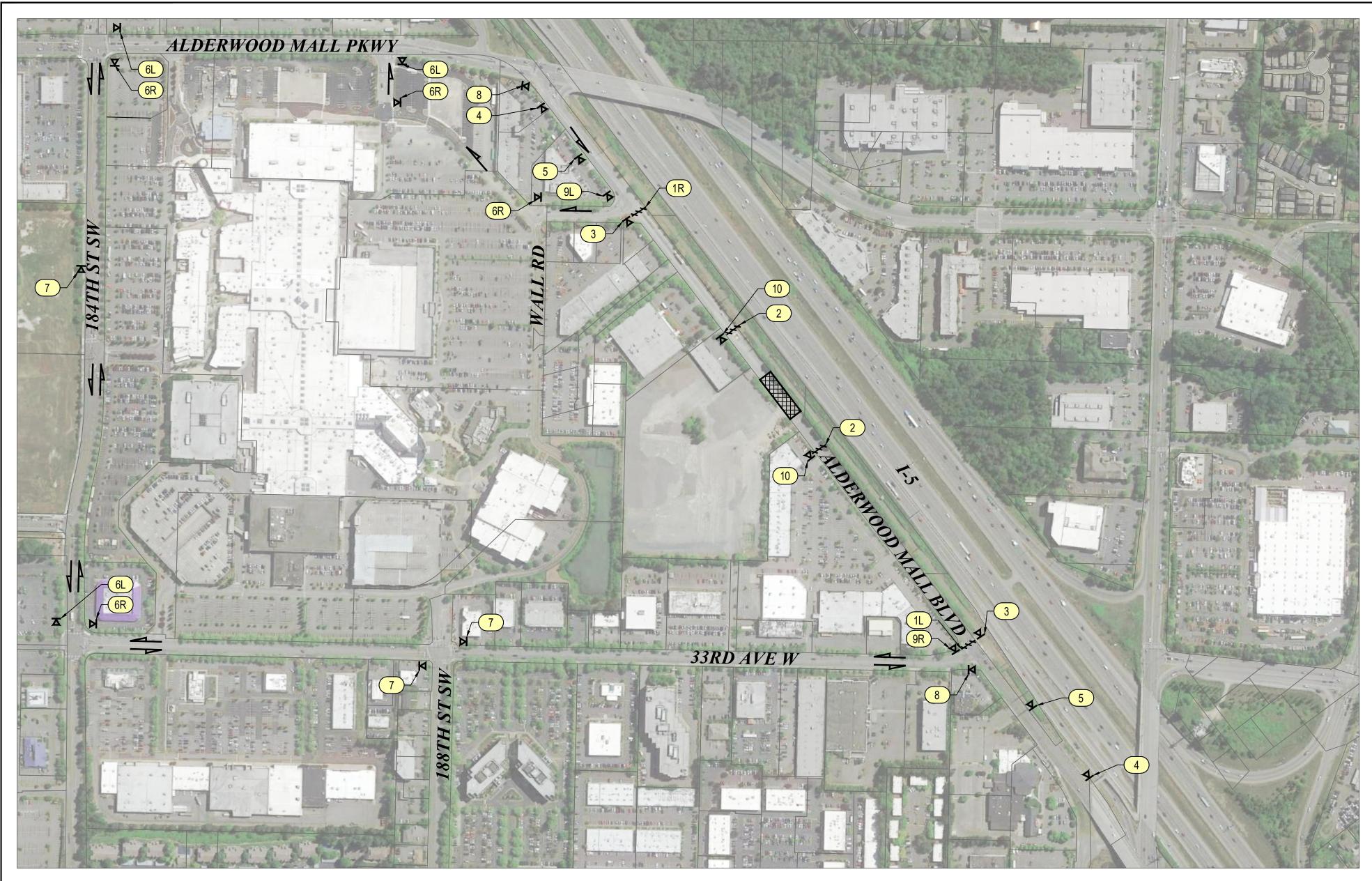


	TYPE D CURB RAMP		DRAWING NUMBER	STD3-15A
VOOD	I TPE D CORD RAIMP		SCALE	NONE
NGTON			REVISION DATE	03/14
S		I:\Standard_Plans	DEPARTMENT	PW



40 80	RRAZ ENGINEERING 40 YEARS SINCE 1978 SINCE 1978 COTHELL, WA 22722 29th Drive SE, Suite 210 www.rh2.com 1.800.720.8052 SIGNED: 03/27/19 SIGNED: 03/27/19						
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лов ио.: 117-098			OMP				BY
ENGINEER: OMP SAVE DATE: Mar 26, 2019 CLIENT: LYNN JOB NO.:	REVIEWED: RJF PLOT DATE: Mar 26, 2019 FILENAME: LS8-D-DET.DWG	REVISIONS	03/27/19 ISSUED FOR BIDDING				NO. DATE DESCRIPTION
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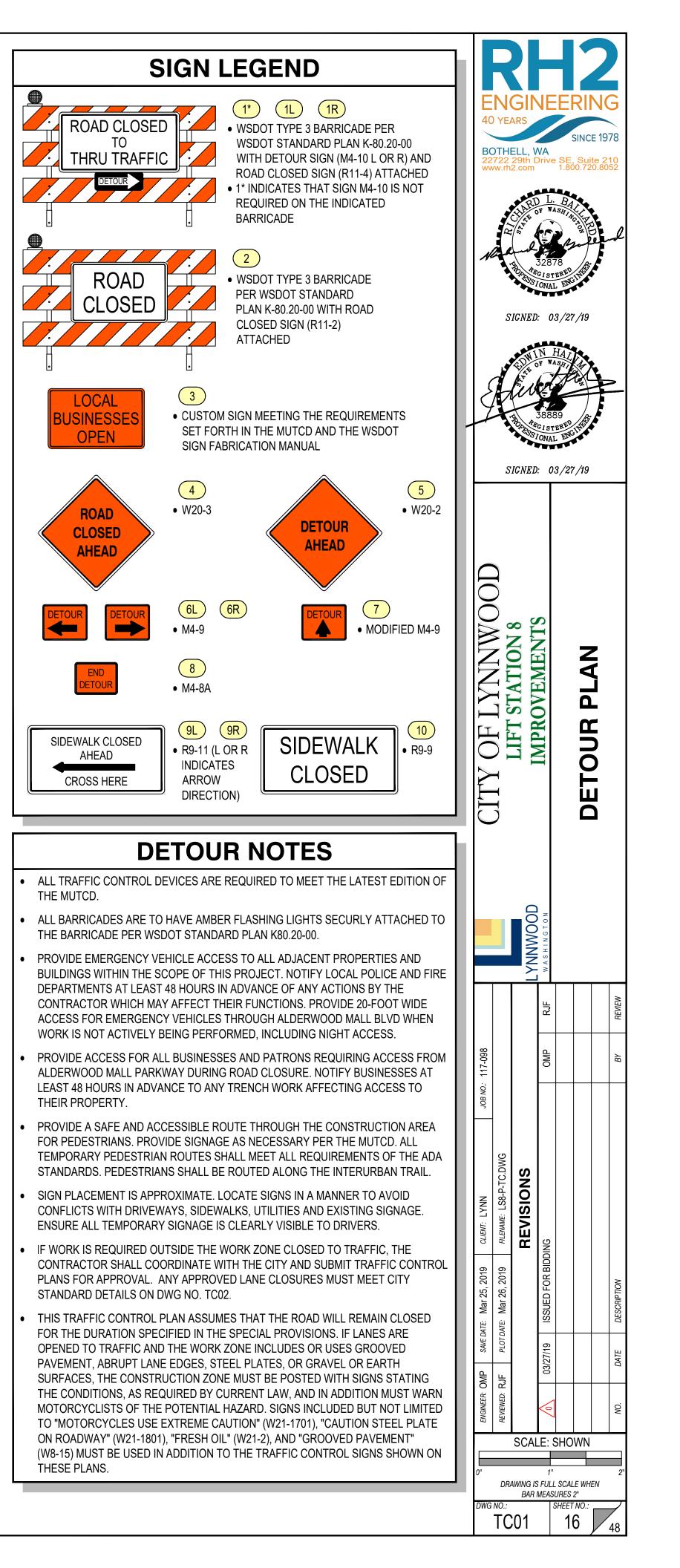


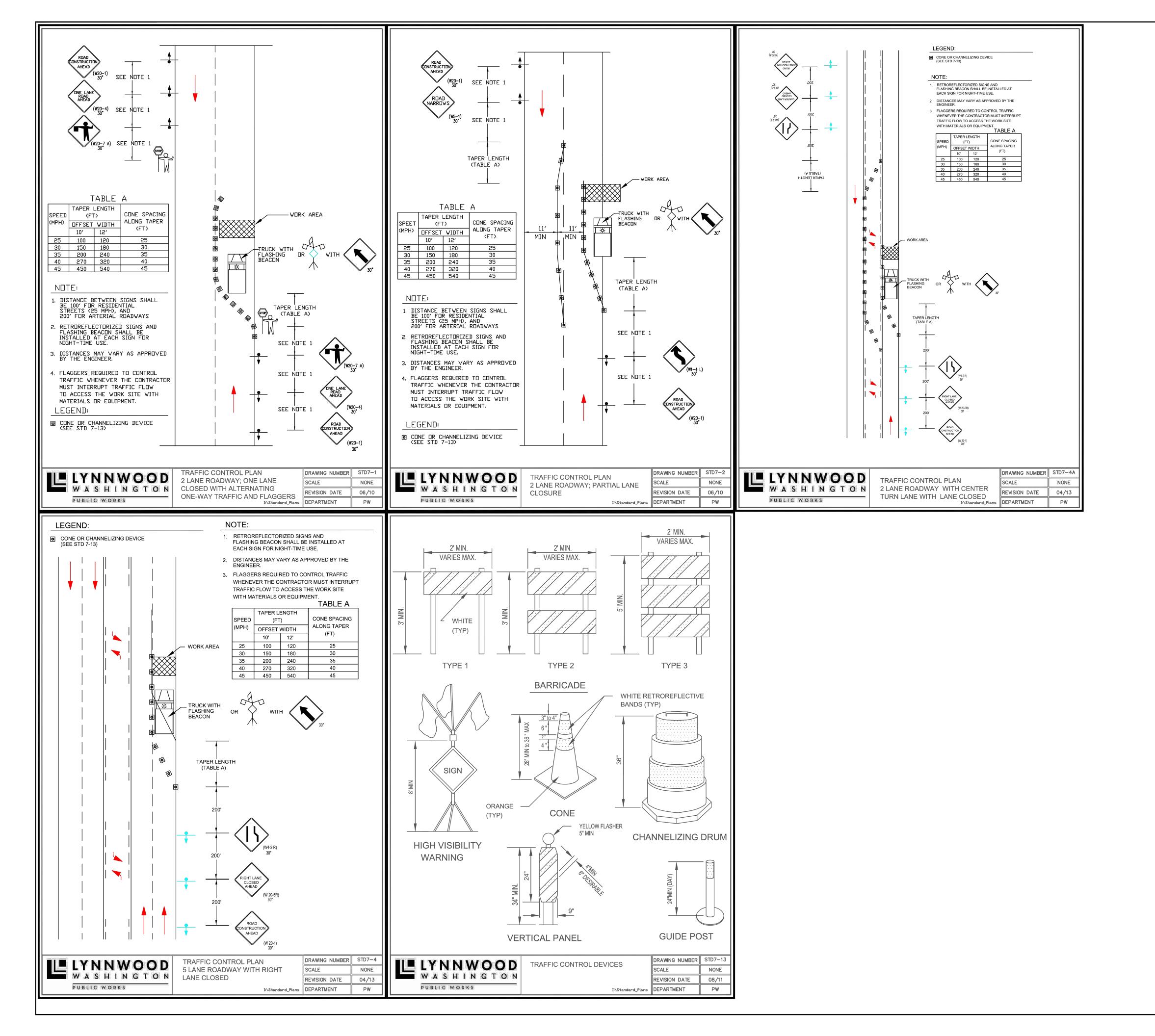


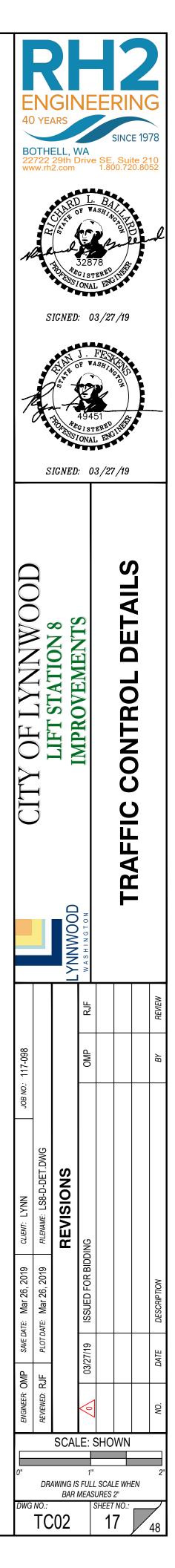
PLAN VIEW APPROX. SCALE: 1" = 250'

ROAD TYPE	SPEED	DISTANCES	BETWEEN AD	VANCED WARN	ING SIGNS
		A**	B**	C**	D**
RURAL ROADS	55 45	500 FT. ±	500 FT. ±	500 FT. ±	500 FT. ±
RURAL ROADS AND URBAN ARTERIALS	40 35	350 FT. ±	350 FT. ±	350 FT. ±	N/A
RURAL ROADS, URBAN STREETS, RESIDENTIAL BUSINESS DISTRICTS	30 25	200 FT. ***	200 FT. ***	200 FT. ***	N/A
URBAN STREETS	25 OR LESS	100 FT. ***	100 FT. ***	100 FT. ***	N/A
ALL SPACING MAY BE ADJUSTED T *THIS REFERS TO THE DISTANCE E ANE CLOSURE ON TWO-LANE ROA **THIS SPACING MAY BE REDUCED EXEMPTION: IN A MOBILE FLAGGING PERATION, THE "FLAGGER AHEAD • WITHIN 1,500 FEET OF THE FL	BETWEEN ADVANC ND. THIS SITUATION IN URBAN AREAS G OPERATION, AS I O (SYMBOL OR TEX	E WARNING SIGNS NIS TYPICAL FOR I TO FIT ROADWAY DEFINED BY THE N T)" SIGN MUST BE	S. SEE FIGURE 1 PI ROADWAYS WITH S CONDITIONS. /UTCD WHEN THE	ER WAC 296-155-30 SPEED LIMITS LESS	5, TYPICAL S THAN 45 MPI









GENERAL STRUCTURAL NOTES

GEOTECHNICAL PARAMETERS: MINIMUM FROST DEPTH

MAXIMUM SOIL BEARING CAPACITY: SOILS REPORT REFERENCE

OTHER LOADING PARAMETERS:

WIND LOAD SNOW LOAD EARTHQUAKE LOAD

OTHER DESIGN VALUES USED:

OCCUPANCY CATEGORY CONCRETE

CMU STEEL

LIVE LOADS: ROOF

20 PSF

18"

2,000 PSF

25 PSF

"ENGINEERING GEOLOGY REPORT" PREPARED

LAT 47.825, LONG 122.274, SOIL PROFILE TYPE C

4,000 PSI WITH 60,000 PSI REINFORCING

1,500 PSI WITH 60,000 PSI REINFORCING

A36 FOR PLATES, A992 FOR OTHER

BY RH2 ENGINEERING

105 MPH, EXPOSURE C

III, WASTE WATER FACILITY

CRITERIA: ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (2012 EDITION)

SPECIAL INSPECTIONS, TESTS, AND OBSERVATIONS:

SPECIAL INSPECTIONS AND TESTS SHALL INCLUDE THE FOLLOWING. REFER TO IBC SECTION 1704 AND 1705 FOR DETAILS.

- 1. SPECIAL INSPECTIONS BY THE GEOTECHNICAL ENGINEER INCLUDING: 1.1. SITE EXCAVATION AND GRADING
- 1.2. PLACEMENT OF STRUCTURAL FILL AND SOIL COMPACTION
- 1.3. VERIFICATION OF SOIL-BEARING CAPACITY
- 2. CONCRETE PLACEMENT AT CONCRETE CONSTRUCTION: CONTINUOUS, SEE ALSO SECTION 1705.3 OF THE INTERNATIONAL BUILDING CODE.
- 3. REINFORCEMENT AT CONCRETE CONSTRUCTION: PERIODIC, SEE ALSO SECTION 1705.3.
- 4. TESTING OF CONCRETE FOR SPECIFIED COMPRESSIVE STRENGTH (FC), AIR CONTENT AND SLUMP. SEE ALSO TABLE 1705.3.
- 5. STRUCTURAL OBSERVATION BY A REGISTERED DESIGN PROFESSIONAL IN ACCORDANCE WITH IBC 1704.5 SHALL BE PROVIDED.
- 6. CONCRETE ANCHOR INSPECTION SHALL BE PER THE SPECIFICATIONS 3.15.19.

GENERAL:

LINES SHOWN ON DRAWINGS MAY BE ASSOCIATED WITH CAD MODELING AND MAY NOT REPRESENT REQUIRED OR ALLOWED JOINTS. SEE DETAILS FOR CLARIFICATION ON REQUIRED AND ALLOWED JOINTS.

REINFORCED CONCRETE:

- 1. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315-99 AND 318-11. LAP ALL REINFORCEMENTS IN ACCORDANCE WITH THE "REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE" - SEE THIS SHEET. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.
- 2. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.
- 3. A 6" WATERSTOP SHALL BE PLACED AT ALL BELOW GRADE CONCRETE SLAB AND WALL CONSTRUCTION JOINTS AND AS SHOWN TO PROVIDE A WATERTIGHT STRUCTURE.
- 4. CONCRETE PROTECTION FOR REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
- 4.1. FOOTINGS AND OTHER UNIFORMED SURFACES CAST AGAINST AND
- 4.2. FORMED SURFACES EXPOSED TO EARTH (WALLS BELOW GRADE),
- WATER OR WEATHER (#6 BARS OR LARGER).
- 4.3. COLUMN TIES OR SPIRALS AND BEAM STIRRUPS 4.4. SLABS AND INTERIOR FACES ...

ABBREVI

BBREVIATIONS:		REINFORC	EMENT SPLI	CE AND DEVEL	OPMENT SCH	=DULE
AL - ALUMINUM CHK - CHECKERED CL - CENTERLINE CLR - CLEAR		Ld, MINIMUM STRAIGHT			MINIMU	JM LAP ENGTHS
EA - EACH	BAR	MINIMUM	TOP BARS	OTHERWISE	CLASS A	CLASS B
EF - EACH FACE	#3	19"	25"	29"	Ld	1.3xLd
FB - FLAT BAR GALV - GALVANIZED	#4	24"	32"	36"	Ld	1.3xLd
HORZ - HORIZONTAL	#5	29"	38"	43"	Ld	1.3xLd
LLV - LONG LEG VERT	#6	42"	55"	63"	Ld	1.3xLd
O.C ON CENTER PL - PLATE RB - ROUND BAR RST - REINF. STEEL SST - STAINLESS STEEL T&B - TOP & BOTTOM VERT - VERTICAL	"MINIMUM" IF: MIN COVER OF ONE BAR Ø AND MIN SPACING OF TWO BAR DIAMETERS MIN COVER ONE Ø, MIN SPACING OF ONE BAR Ø, AND TIES OR STIRRUPS LESS THAN 12" OF FRESH CONCRETE BELOW HORIZONTAL BARS "TOP BARS" IF: MEETS CRITERIA FOR MIN EXCEPT 12" OR MORE FRESH CONC BELOW "OTHERWISE" IF: DOES NOT MEET REQUIREMENTS FOR MIN DEVELOPMENT LENGTH "CLASS A" IF: ONLY HALF OF BARS LAPPED AT ONE LOCATION AND TWICE THE REINFORCING FOR TENSION IS PROVIDED "CLASS B" IF: LAP SPLICES DO NOT MEET CLASS A REQUIREMENTS					

CONCRETE ANCHORS SHALL BE EITHER HILTI HIT-RE 500-V3 INJECTABLE MORTAR, SIMPSON STRONG-TIE SET-XP ANCHORING ADHESIVE, OR POWERS PE1000+ ADHESIVE ANCHORS AS SPECIFIED. WHERE SIZE IS CALLED OUT ON THE DRAWINGS, PROVIDE MINIMUM EMBEDMENT DEPTHS AS SHOWN ON THE FOLLOWING TABLES. PROVIDE MINIMUM EDGE DISTANCES AND SPACING AS SHOWN ON THE FOLLOWING TABLE UNLESS SPECIFICALLY DETAILED OTHERWISE.

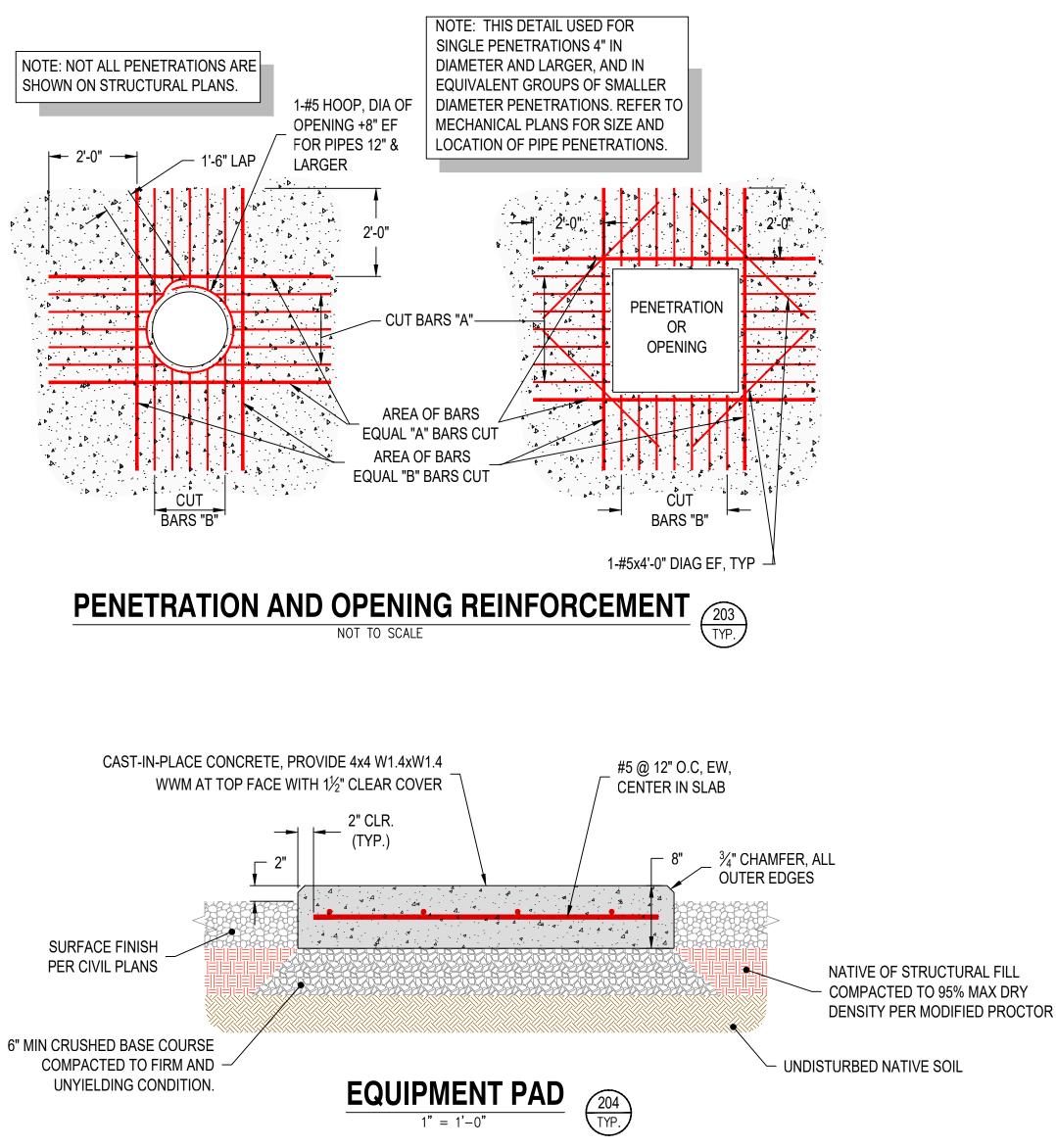
INSTALL ANCHORS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

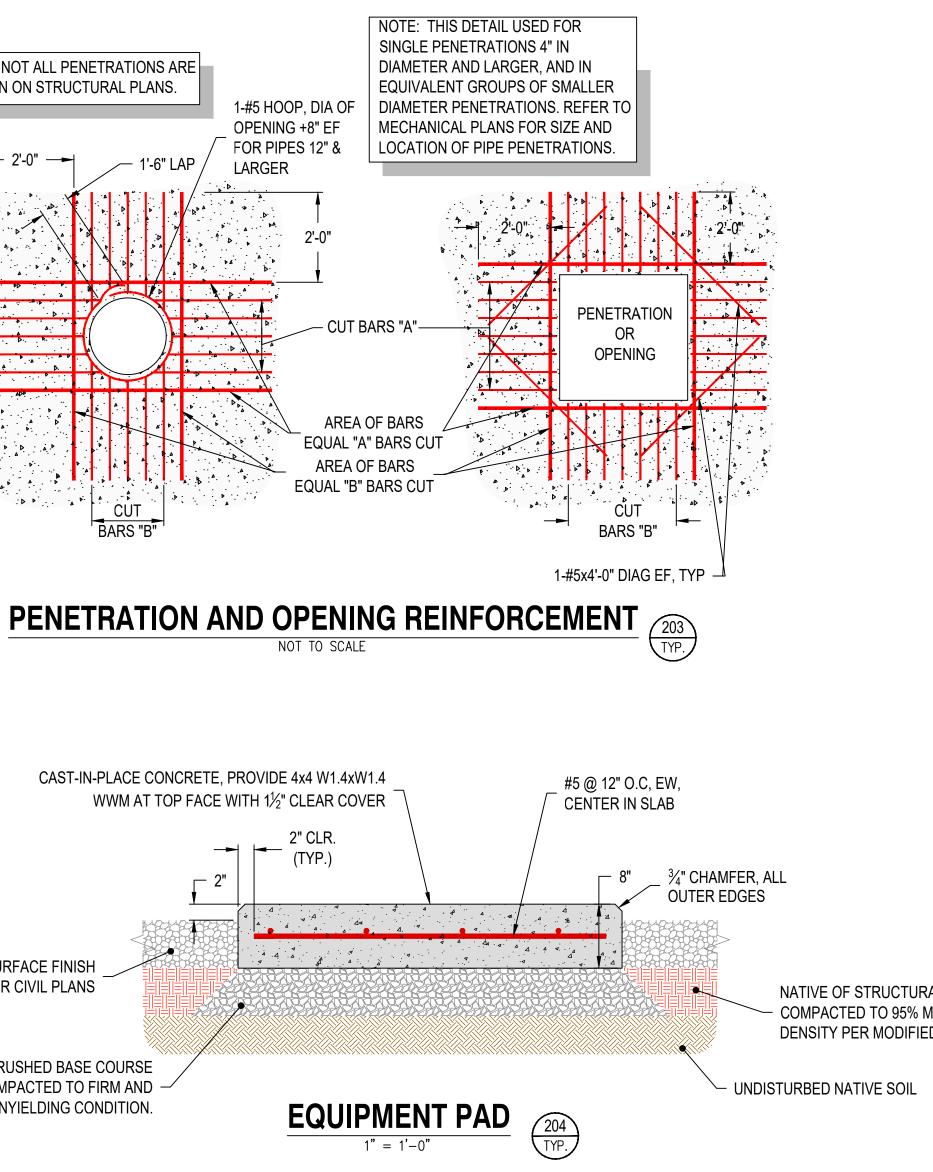
NOTIFY OWNER 24 HOURS IN ADVANCE OF INSTALLATION OF ALL ANCHORS.

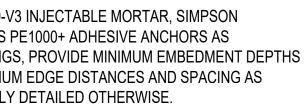
WHERE SIZE IS NOT CALLED OUT, ANCHOR SHALL BE SELECTED BASED ON DESIGN LOADS. IF THE MINIMUM EDGE DISTANCE AND/OR MINIMUM SPACING CAN NOT BE ACHIEVED, REFER TO PRODUCT INFORMATION FOR REDUCTION IN ALLOWABLE LOADS.

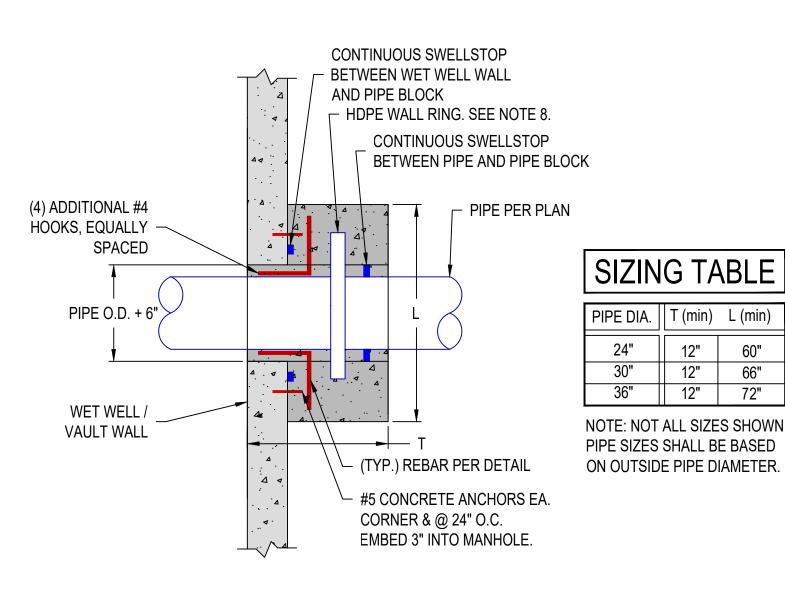
CONCRETE ANCHORS HILTI HIT-RE 500-V3, SIMPSON STRONG-TIE SET-XP & POWERS PE1000+								
DIA. OF ROD (INCHES) OR	MIN. EDGE DISTANCE	MIN. EMBEDMENT	MIN. ANCHOR SPACING	ALLOWABLE LOAD BASED ON BOND STRENGTH (POUNDS)				
REBAR SIZE NO.	(INCHES)	(INCHES)	(INCHES)	TENSION	SHEAR			
1/2	2-1/2	2-3/4	2-1/2	1,027	2,210			
5/8	3-1/8	3-1/8	3-1/8	1,312	2,827			
3/4	3-3/4	3-1/2	3-3/4	1,556	3,351			
7/8	4-3/8	3-1/2	4-3/8	1,556	3,351			
#4	2-1/2	4-1/2	2-1/2	1,520	3,618			
#5	3-1/8	5-5/8	3-1/8	1,775	5,494			
#6	3-3/4	6-3/4	3-3/4	2,225	7,570			
#7	4-3/8	7-7/8	4-3/8	2,440	9,428			
#8	5	9	5	4,520	11,507			

CONCRETE ANCHOR $\begin{pmatrix} 201 \\ TYP. \end{pmatrix}$











PIPE BLOCKING NOTES:

- DETAIL SHALL BE USED AT ALL STRUCTURE PENETRATIONS WHERE HDPE PIPE IS USED FOR GRAVITY SEWER AND STORM PIPE AND AS SPECIFIED ON THE PLANS. WHERE ADJACENT STRUCTURE IS A MANHOLE, CONCRETE ANCHORS SHALL BE SIMILAR TO MANHOLE DETAIL ON THIS SHEET.
- CONCRETE BLOCK SHALL BE PER SECTION 7-09.3(21) OF THE WSDOT STANDARD SPECIFICATIONS.
- MAINTAIN 18" MINIMUM COVER OVER THE TOP OF BLOCK.
- BOTTOM OF BLOCK IS TO BE ON UNDISTURBED SOIL. TRENCH TO BE BACKFILLED TO THE FULL DEPTH OF THE BLOCK WITH CRUSHED ROCK COMPACTED TO 95% DENSITY ON ALL SIDES OF BLOCK AND TO A MINIMUM DISTANCE OF 4' IN FRONT OF AND BEHIND PROPOSED BLOCK.
- FOR SOIL CONDITIONS NOT SHOWN, BLOCK IS TO BE DESIGNED BY THE ENGINEER. IF BLOCK CANNOT BE KEYED INTO UNDISTURBED SOIL TO THE SATISFACTION
- OF THE ENGINEER:
 - THE BLOCK LENGTH SHALL BE EXTENDED TO PROVIDE AN ADEQUATE KEY OR
 - CDF SHALL BE USED TO FILL BACK TO NATIVE SOIL OR
 - THE TRENCH SHALL BE BACKFILLED AND COMPACTED TO 95% DENSITY A MINIMUM DISTANCE OF 15 FEET IN FRONT OF THE BLOCK TO THE SATISFACTION OF THE ENGINEER
- 8. HDPE WALL RING MUST BE SIZED TO RESIST PULL-OUT FORCE OF HDPE PIPE DUE TO THERMAL EXPANSION AND PIPELINE CHARGING PER MANUFACTURER'S RECOMMENDATION.



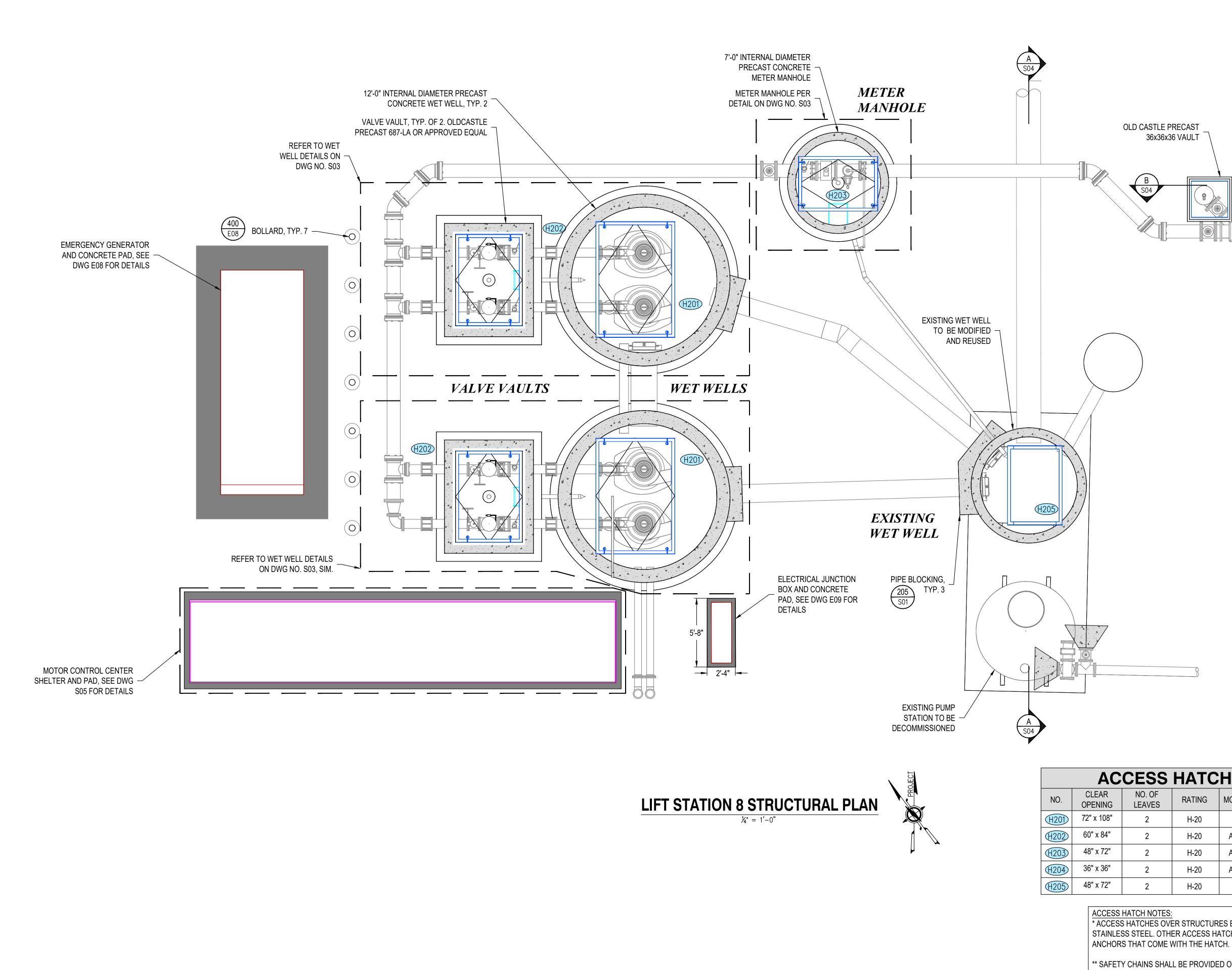
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					CITV OF I VNNWOOD	LIFT STATION 8	LYNNWOOD		STRUCTURAL PLAN	
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§					No: 117-098			OMP		BY
S HATC RATING H-20 H-20	MOUNTING* BOLTS ANCHOR ANCHOR BOLTS	SAFETY CHAIN** YES YES NO YES	QUANTITY 2 2 1 1 1 1	GASKET ODOR TIGHT STANDARD STANDARD STANDARD ODOR TIGHT	ENGINEER: DND SAVE DATE: Mar 26, 2019 CLIENT: LYNN JOB NO.:	REVIEWED: JMC PLOT DATE: Mar 26, 2019	REVISIONS	2 03/27/19 ISSUED FOR BIDDING	IOWN	NO. DATE DESCRIPTION

** SAFETY CHAINS SHALL BE PROVIDED ON ACCESS HATCHES AS SHOWN IN DETAIL

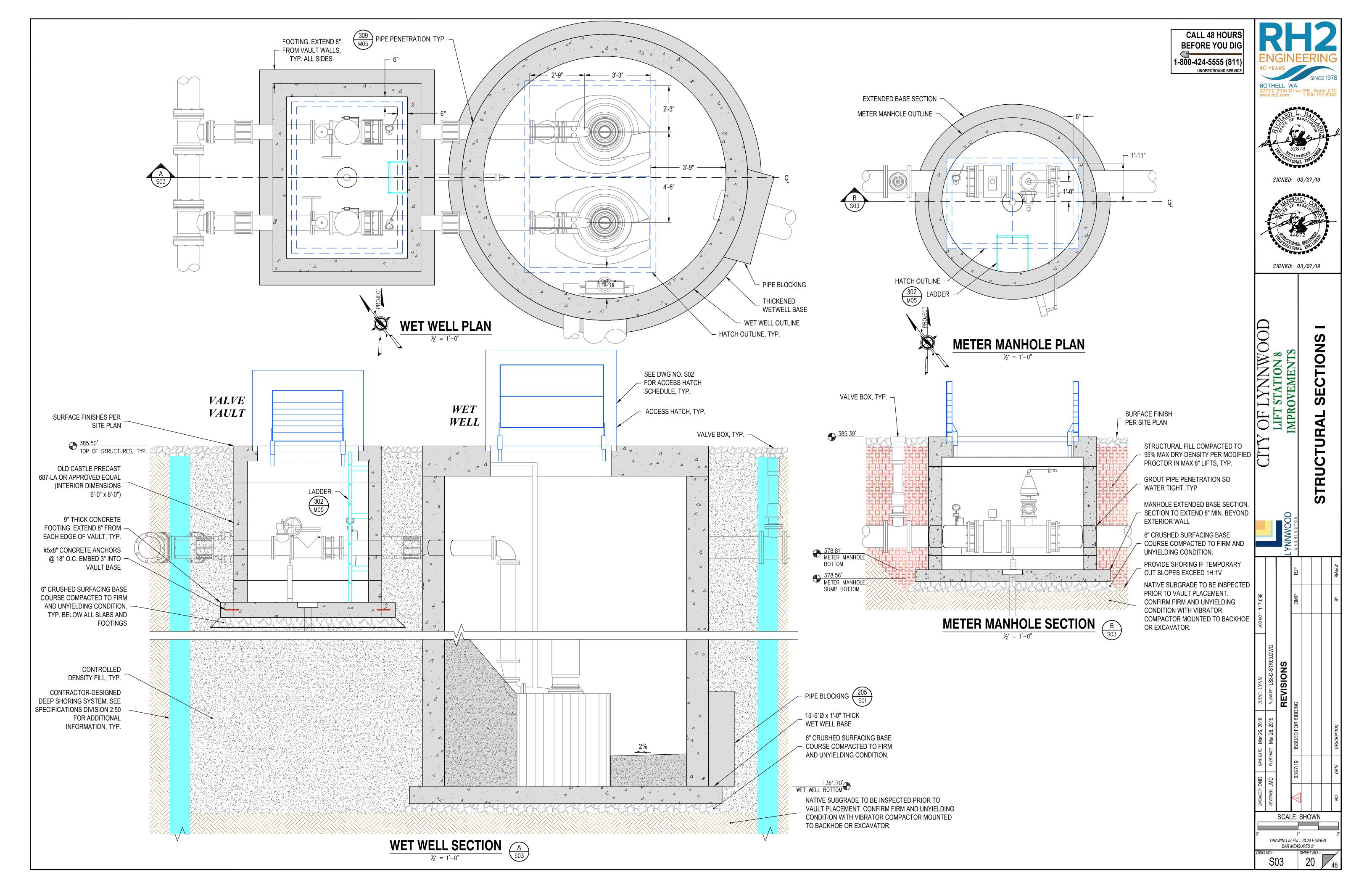
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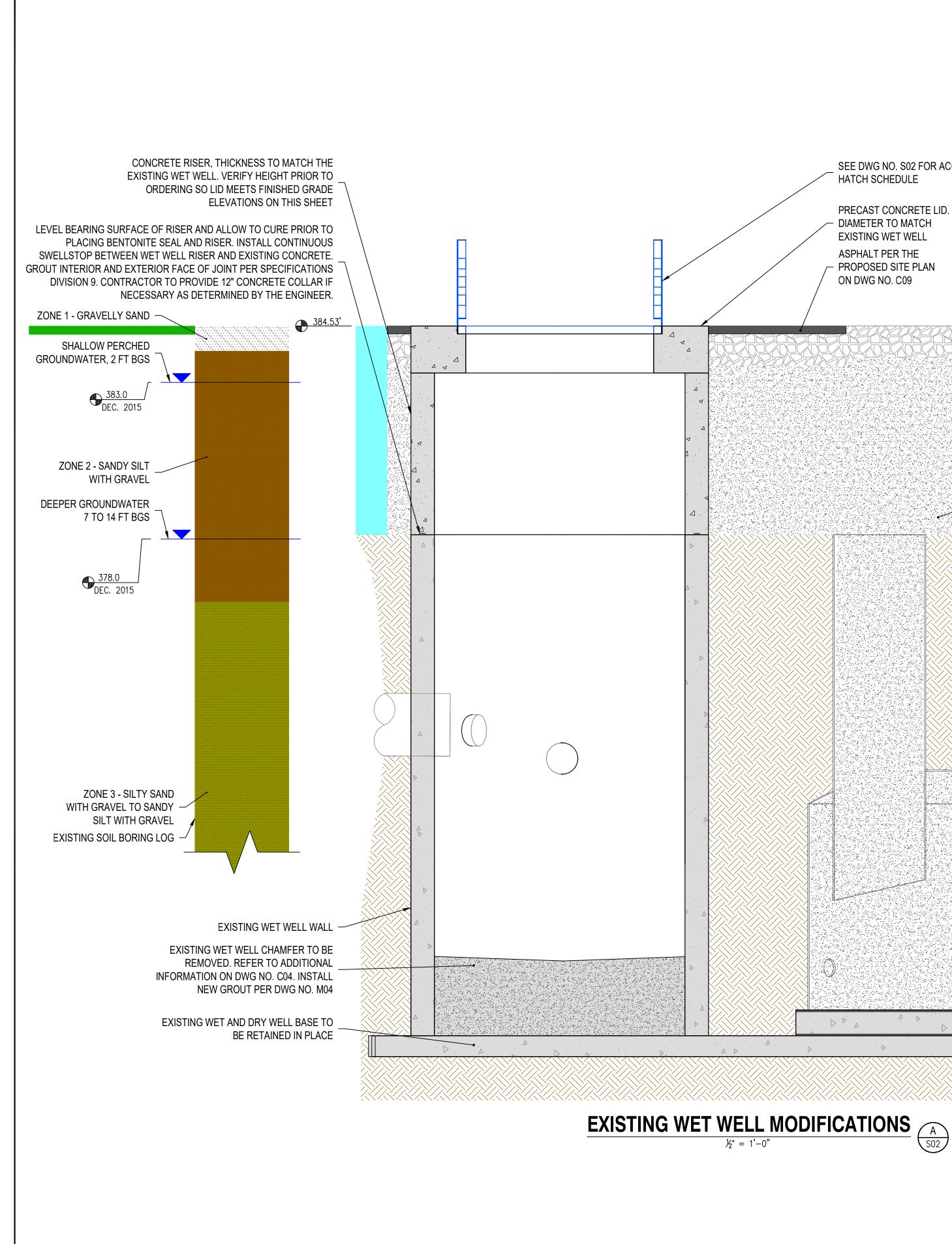
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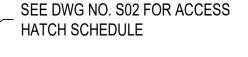
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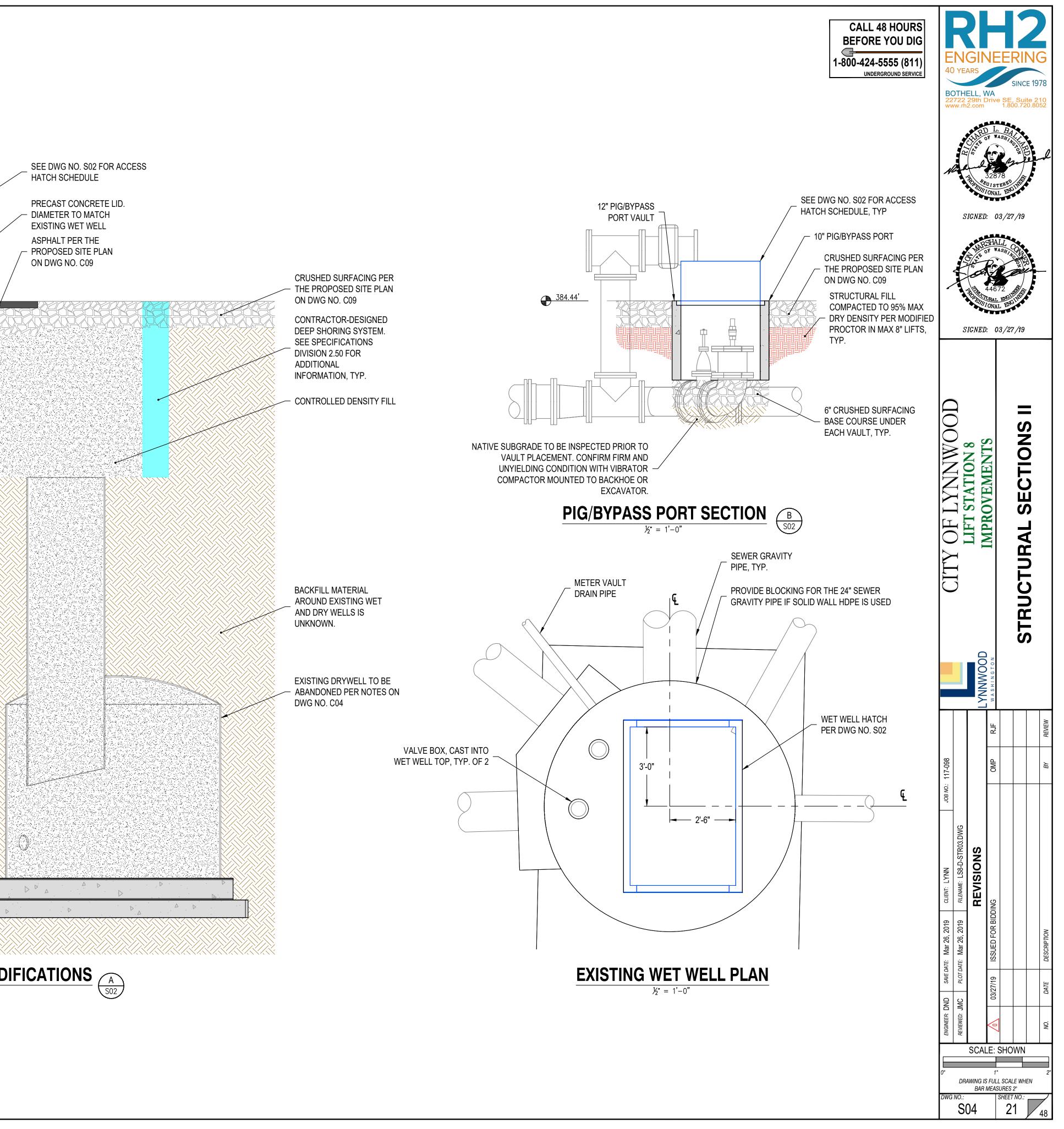
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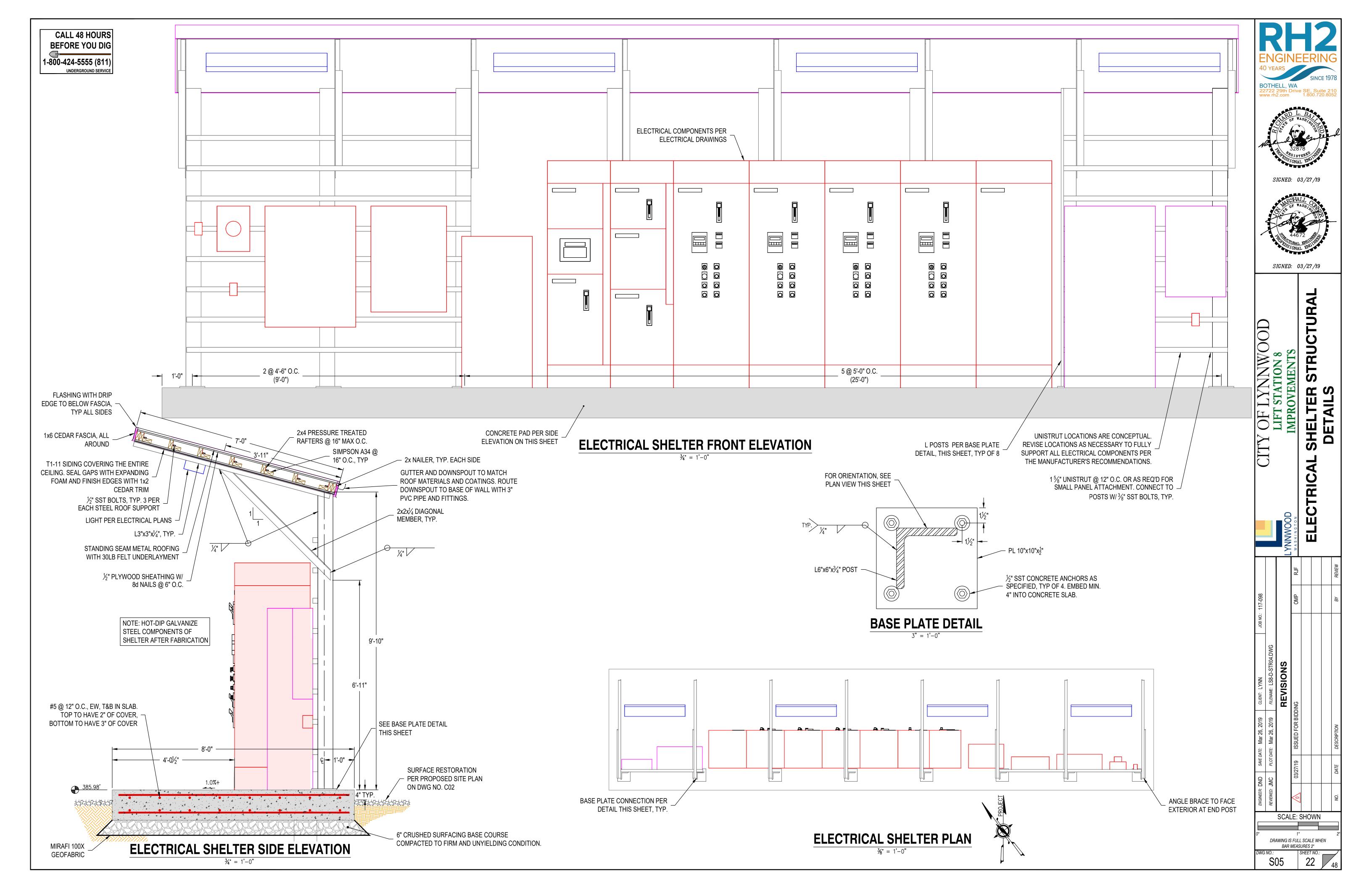








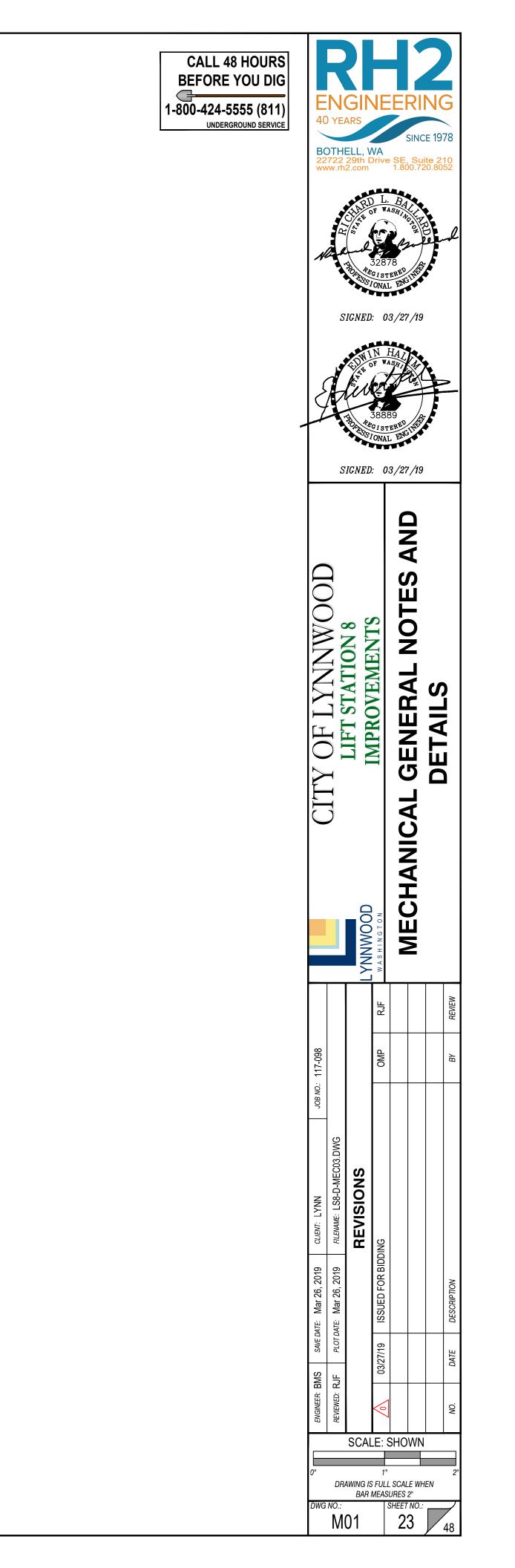


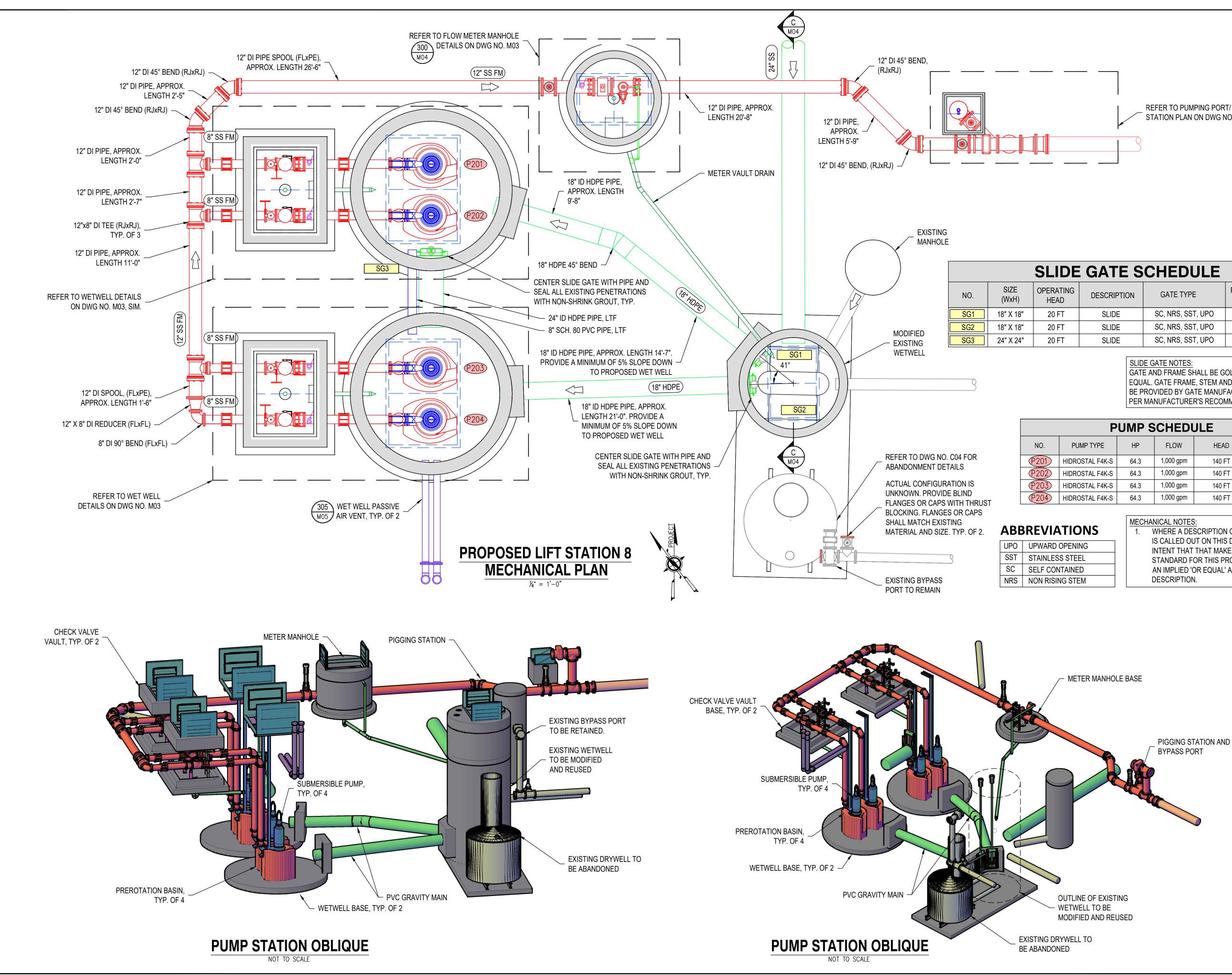


GENERAL MECHANICAL NOTES

_	GENERAL MECHANICAL NOTES	MAJOF
1.	CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT, MATERIALS, LABOR, AND EXPERTISE TO CONSTRUCT MAJOR AND MINOR PIPING SYSTEMS ACCORDING TO APPLICABLE CODES, STANDARDS, AND MANUFACTURER	PIPE AND PIPE JO
2.	RECOMMENDATIONS. CONTRACTOR SHALL CONFORM TO PIPE ROUTING AND ARRANGEMENT AS CLOSELY AS POSSIBLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFY ALL PIPING DIMENSIONS. CONTRACTOR SHALL PREPARE AND SUBMIT DETAILED DIMENSIONAL DRAWINGS BASED ON APPROVED EQUIPMENT AND PIPING SYSTEMS.	FL x FL FL x =TRJ
3.	NOT ALL PIPING, VALVES, FITTING AND ACCESSORIES ARE SHOWN. PROVIDE ALL PIPE, VALVES, AND ACCESSORIES AS SHOWN ON THE PROCESS AND INSTRUMENTATION (P&ID) DRAWINGS EVEN THOUGH NOT SHOWN ON MECHANICAL DRAWINGS.	CONFIGURA
4.	FITTINGS AND/OR PIPING THAT MAY BE REQUIRED IN ORDER TO OPERATE SOME MINOR MECHANICAL SYSTEMS, INSTRUMENTATION, AND EQUIPMENT MAY NOT BE SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROVIDE FITTINGS AND PIPING AS NECESSARY TO HAVE A COMPLETE AND FUNCTIONAL SYSTEM.	FCA WITH S SHOWN
5.	CONTRACTOR SHALL CONNECT EQUIPMENT, VALVES, METERS, AND OTHER SIMILAR FITTINGS TO PIPING SYSTEM SUCH THAT IT CAN BE READILY DISASSEMBLED FOR MAINTENANCE OF THE EQUIPMENT. THIS MAY REQUIRE PROVIDING ADDITIONAL FITTINGS OR SUPPORTS NOT SHOWN IN THE PLANS.	
6.	DISMANTLING JOINTS OR FLANGE COUPLING ADAPTORS WITH SHACKLE RODS MAY BE ADDED WITH ENGINEER APPROVAL TO FACILITATE PIPE ASSEMBLY.	EXPANSION <u>FITTINGS (P</u>
7.	CONTRACTOR SHALL PROVIDE VALVED VENTS AT HIGH POINTS AND VALVED DRAINS AT LOW POINTS AND ALL OTHER LOCATIONS AS NECESSARY TO SUCCESSFULLY TEST PIPING SYSTEMS.	FLANGED MECHANICAL
8.	PIPING, VALVES, SUPPORTS, AND OTHER APPURTENANCE HARDWARE THAT WILL BE SUBMERGED DURING NORMAL OPERATING CONDITIONS SHALL BE STAINLESS STEEL, UNLESS OTHERWISE NOTED.	
9.	NOT ALL PIPE SUPPORTS ARE SHOWN IN THE PLANS. CONTRACTOR SHALL PROVIDE AND INSTALL PIPE SUPPORTS AS NECESSARY TO PROVIDE A RIGID, SECURE, NON-SAGGING SYSTEM. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.	
10.	FITTING TAPS SHALL BE DONE AT THE FACTORY. PIPE TAPS MAY BE DONE ON SITE USING A TAPPING MACHINE BY AN EXPERIENCED OPERATOR. ALL TAPS ARE SUBJECT TO OWNER APPROVAL AND ANY REJECTED MATERIALS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. TAPPED DI PIPE SHALL BE CLASS 53 MINIMUM. DIRECT TAPS ON PIPE ARE TO BE LOCATED SUCH THAT ADJACENT FITTING BOLTS OR SHACKLE RODS DO NOT INTERFERE WITH INSTALLATION OF GAUGES, SWITCHES OR AIR VALVES. TAPPED PIPE WILL BE REJECTED IF EQUIPMENT CANNOT BE INSTALLED CLEANLY AND DISASSEMBLED EASILY.	
11.	MINOR MECHANICAL PIPING: ALL VALVES 2" AND LARGER SHALL INCLUDE HANDWHEEL OPERATORS. ALL BALL VALVES SMALLER THAN 2" SHALL HAVE $\frac{1}{4}$ TURN FULL HANDLES AND BE RATED FOR 300psi WORKING PRESSURE.	
12.	PLUMB ALL CONTROL VALVE PILOT DRAINS, AIR VALVE OUTLETS, AND PUMP HEAD DRAINS TO FLOOR DRAINS USING COPPER AND COMPRESSION FITTINGS OR SCH 40 PVC PIPE AND FITTINGS. SECURE TO PIPE RUNS OR SUPPORTS AWAY FROM TRAVELED PATHS. PROVIDE UNIONS OR COUPLINGS AS NECESSARY TO ALLOW COMPLETE DISASSEMBLY. MAINTAIN CONTINUOUS DRAINING GRADE ON PIPE RUNS.	
13.	CONTRACTOR SHALL PROVIDE ALL NECESSARY THRUST RESTRAINT, INCLUDING BUT NOT LIMITED TO CONCRETE BLOCKING, SHACKLE RODS MECHANICAL THRUST RESTRAINT (MEGALUGS OR EQUAL) AND TRUE RESTRAINED JOINT PIPE (TRJ) PIPE.	VALVES AND MET
14.	IN THE EVENT THAT A SECTION OF PIPING FAILS A PRESSURE TEST, AND ANY MECHANICAL JOINTS WITH MEGA-LUG STYLE RESTRAINTS NEED TO BE DISASSEMBLED, THE MEGA-LUGS AND THE ASSOCIATED PIPE MAY NOT BE REUSED AND MUST BE REPLACED AT THE CONTRACTOR'S EXPENSE.	
15.	CONTRACTOR SHALL PROVIDE INSULATING FLANGE KITS OR TRANSITION COUPLINGS BETWEEN ALL DISSIMILAR PIPING MATERIALS.	GATE VALVE
16.	ALL FLOW METERS SHALL BE INSTALLED SO THAT THERE IS A MINIMUM STRAIGHT RUN LENGTH OF 5 PIPE DIAMETERS UPSTREAM AND 2 PIPE DIAMETERS DOWNSTREAM.	
17.	ALL PVC FITTINGS SHALL BE SOCKET END-TYPE FITTINGS UNLESS OTHERWISE NOTED.	
18.	ALL BUTTERFLY VALVES (BFV) SHALL BE FULL LUG WAFER STYLE, UNLESS OTHERWISE NOTED.	
19.	ALL VALVES SHALL BE REMOVABLE WITHOUT HAVING TO CUT PIPE.	
20.	FLANGE COUPLING ADAPTERS (FCA), RESTRAINED FLANGE COUPLING ADAPTERS (RFCA), AND COUPLINGS SHALL BE EQUAL TO ROMAC.	
21.	ALL PRESSURE PIPE SHALL HAVE RESTRAINED JOINTS. EXPOSED PIPING SHALL BE FLANGED OR GROOVED; BURIED PIPING SHALL BE MECHANICALLY RESTRAINED JOINTS. PUSH ON JOINTS WITH FIELD LOK (OR APPROVED EQUAL) ARE ACCEPTABLE RESTRAINED JOINT IN STRAIGHT SECTIONS WITH BLOCKING OR RESTRAINED FITTINGS AS SPECIFIED. PROVIDE TRUE (BOLTLESS) RESTRAINED JOINT PIPE AND CONCRETE BLOCKING WHERE SPECIFIED ON PLANS.	
22.	PIPING WHICH NORMALLY OPERATES UNDER FULL CONDITIONS WITH HYDROSTATIC HEAD HIGHER THAN THE CROWN OF THE PIPE SHALL BE CONSIDERED PRESSURE PIPING. PIPING WHICH NORMALLY OPERATES AT A HYDROSTATIC HEAD NO HIGHER THAN THE PIPE CROWN SHALL BE CONSIDERED GRAVITY PIPELINES. ALL PIPING SHALL BE HYDROSTATICALLY TESTED AND DISINFECTED (WHERE APPLICABLE) IN ACCORDANCE WITH THE GUIDELINES IDENTIFIED IN THE SPECIFICATIONS.	
23.	UNLESS OTHERWISE NOTED, PIPE MATERIAL SHALL BE USED BASED ON PIPE FUNCTION AND AS SPECIFIED IN THE PIPE SCHEDULE (SEE SPECIFICATIONS). PREPARE AND COAT ALL EXPOSED PIPING PER THE FINISHES SECTION OF THE SPECIFICATIONS.	
24.	ALL PIPE PENETRATIONS SHALL BE SEALED WATERTIGHT.	
25.	HEAT TRACE AND INSULATE ALL ABOVE GRADE, EXPOSED WATER AND FLUID PROCESS PIPES TO 3' BELOW GRADE.	
26.	COPPER PIPING MAY BE USED IN LIEU OF SCH 40 PVC FOR PLUMBING WATER SUPPLY LINES.	

27. ABS MAY BE USED IN LIEU OF SCH 40 PVC FOR PLUMBING DRAIN, WASTE, VENT LINES.





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STATION PLAN ON DWG NO. M04

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ating Ad	DESCRIPTION	GATE TYPE	FRAME TYPE	ACTUATOR TYPE
				NUIT

AD			TYPE	TYPE
FT	SLIDE	SC, NRS, SST, UPO	FLG	NUT
FT	SLIDE	SC, NRS, SST, UPO	FLG	NUT
FT	SLIDE	SC, NRS, SST, UPO	FLG	NUT

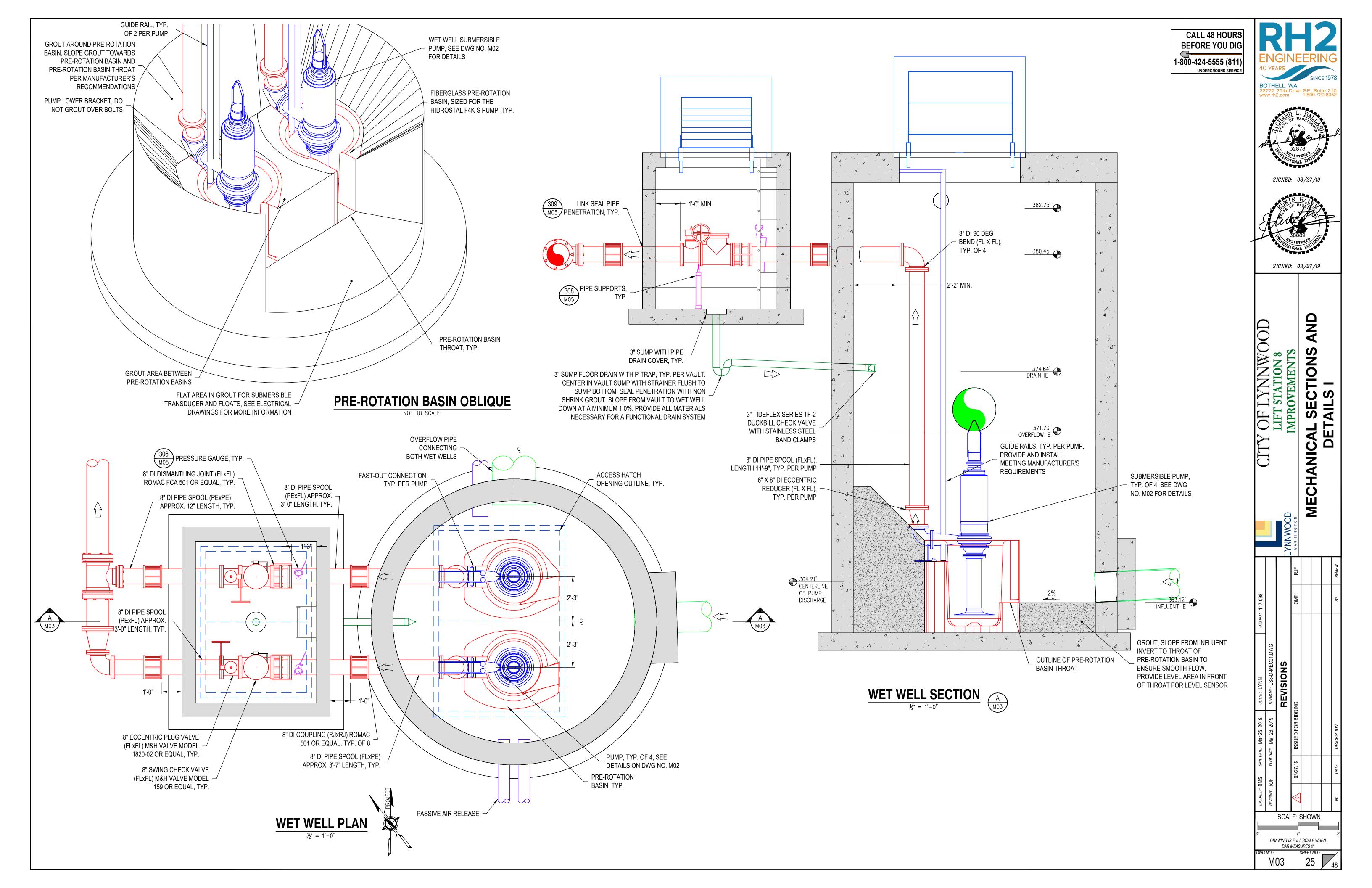
GATE AND FRAME SHALL BE GOLDEN HARVEST OR EQUAL. GATE FRAME, STEM AND NUT ACTUATOR TO BE PROVIDED BY GATE MANUFACTURER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

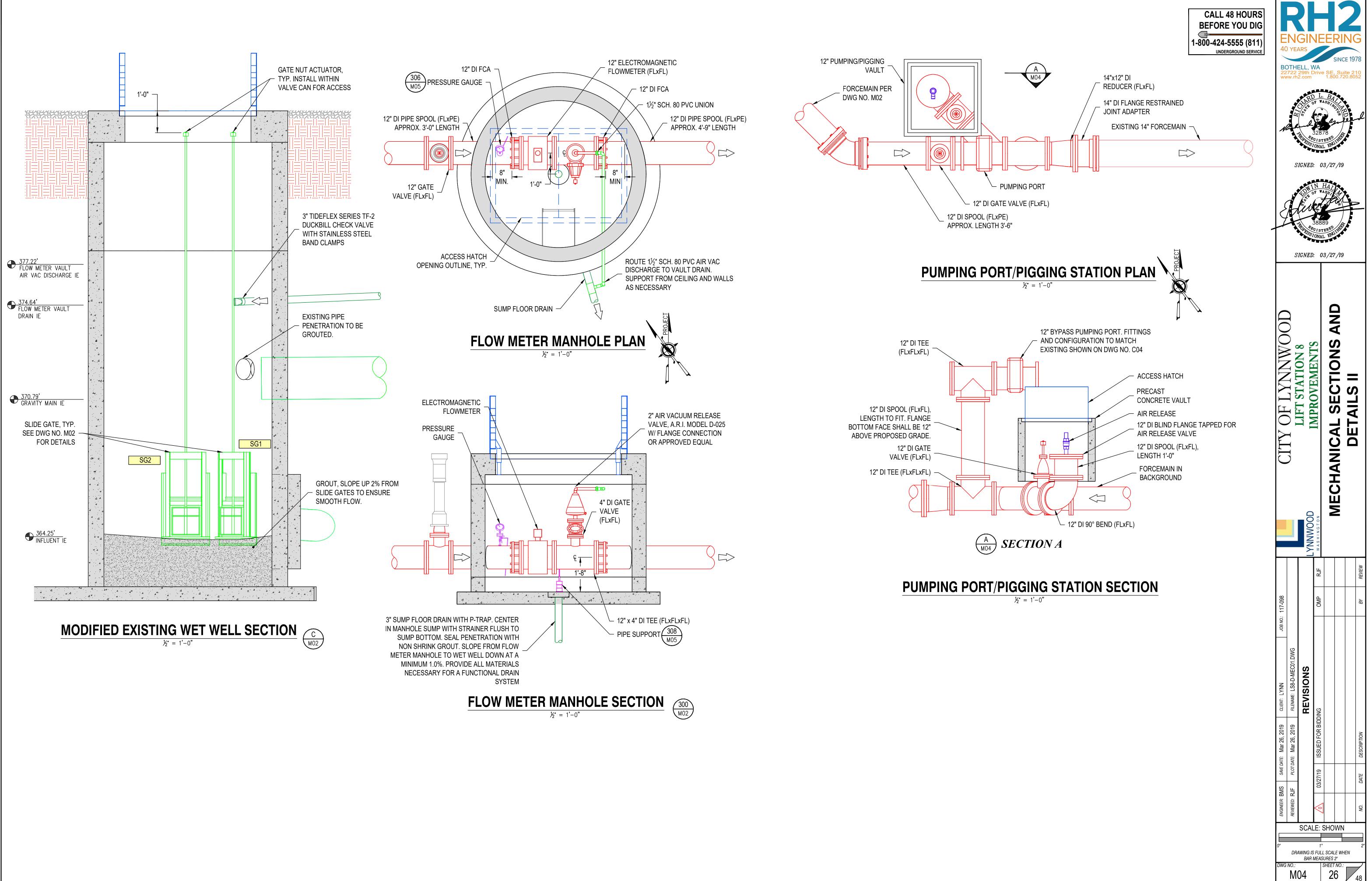
_									
	PUMP SCHEDULE								
	PUMP TYPE	HP	FLOW	HEAD	DISCHARGE SIZE				
	HIDROSTAL F4K-S	64.3	1,000 gpm	140 FT	4"				
	HIDROSTAL F4K-S	64.3	1,000 gpm	140 FT	4"				
	HIDROSTAL F4K-S	64.3	1,000 gpm	140 FT	4"				
	HIDROSTAL F4K-S	64.3	1,000 gpm	140 FT	4"				

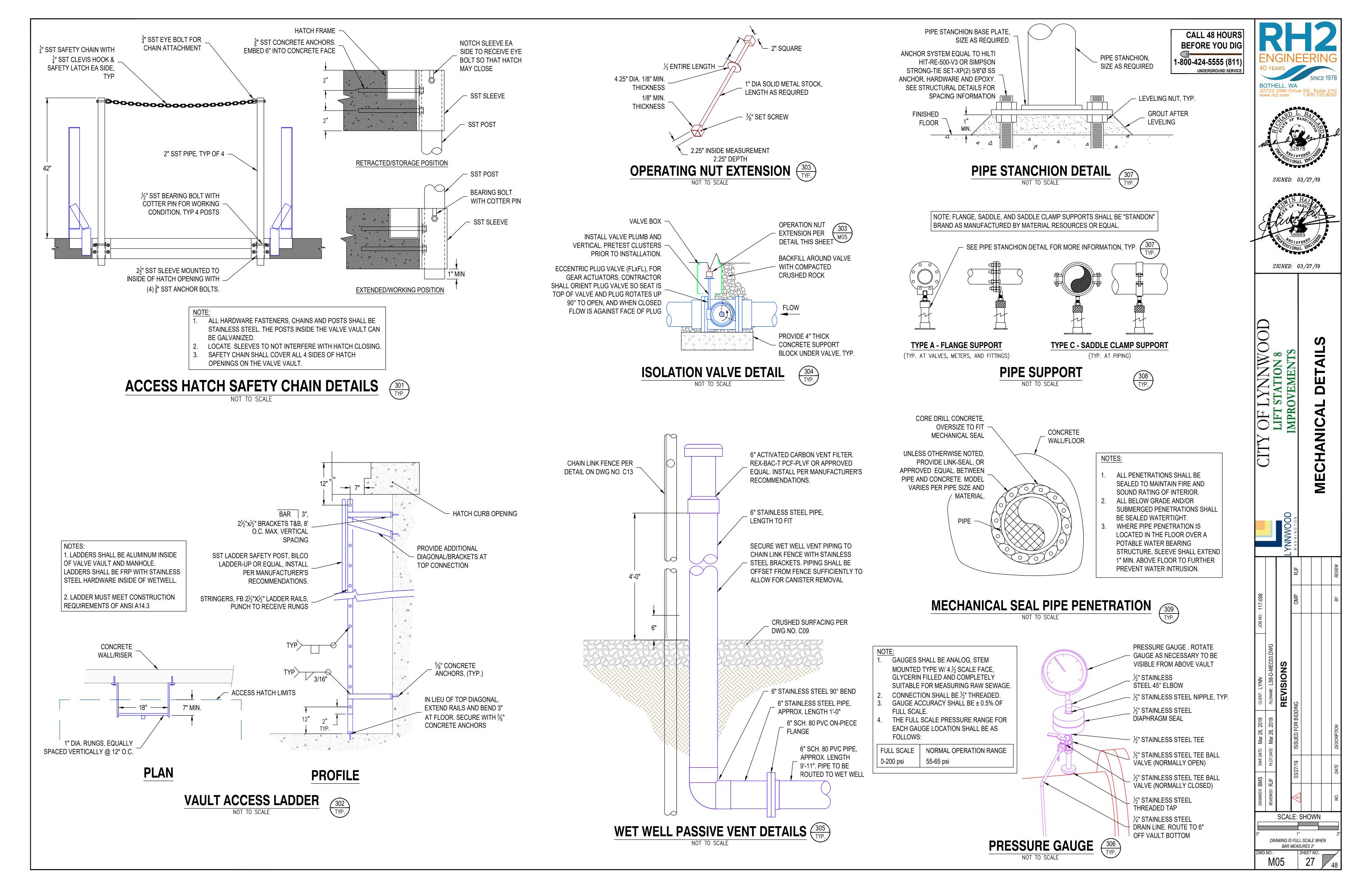
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1. WHERE A DESCRIPTION OF EQUIPMENT, ETC IS CALLED OUT ON THIS DRAWING, IT IS THE INTENT THAT THAT MAKE AND MODEL IS THE STANDARD FOR THIS PROJECT, AND THERE IS AN IMPLIED 'OR EQUAL' ATTACHED TO THE

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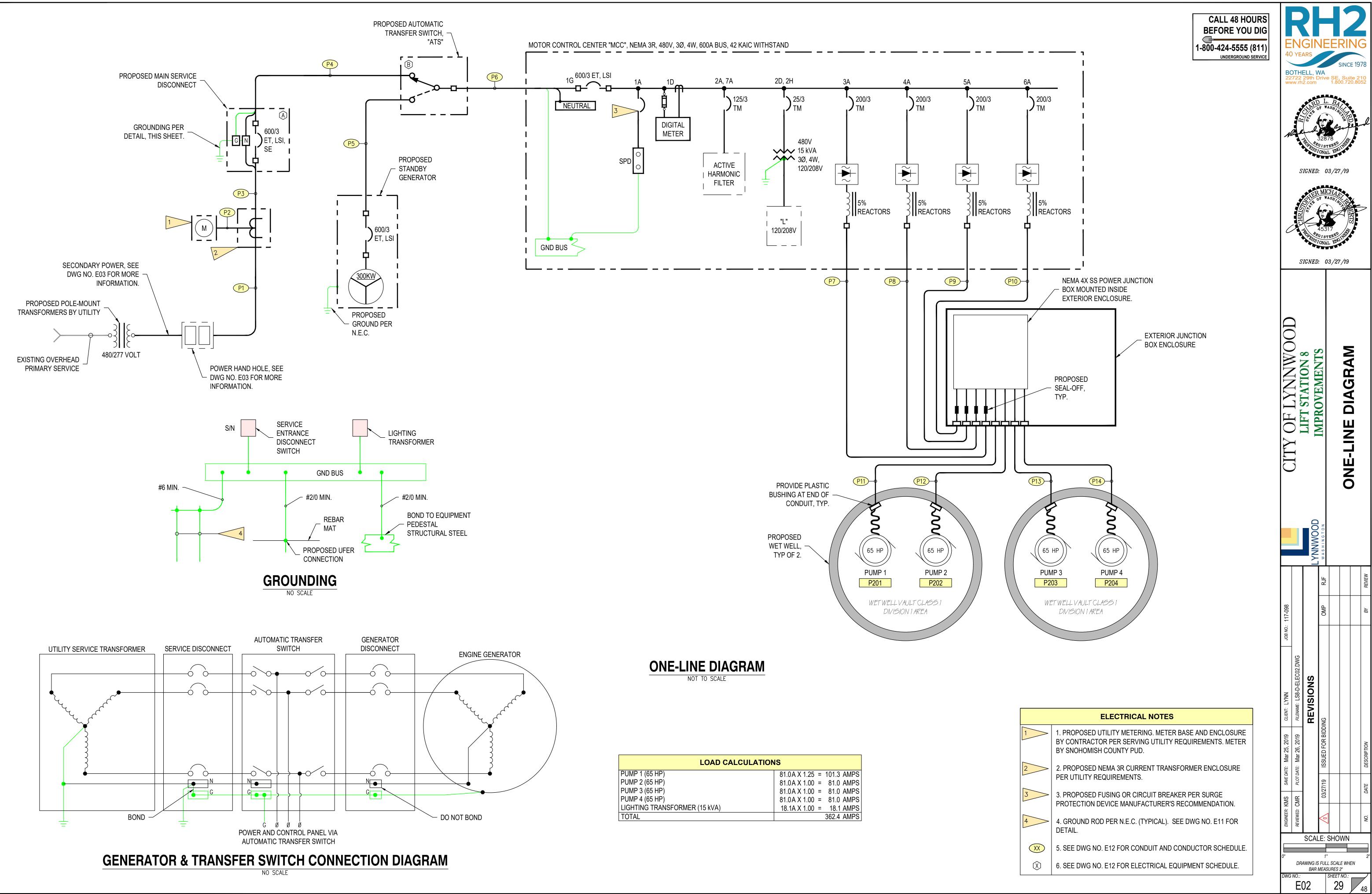


ONE-LINE DIAGRAM SYMBOLS	PANELBOARDS, SWITCHES, AND EQUIPMENT	LIGHTING FIXTURES/DEVICES	ABBREVIATIONS	LADDER LOGIC SYMBOL LEGEND
CIRCUIT BREAKER XXX/YY – CB SIZE & NO. OF POLES ET – ELECTRONIC TRIP TM – THERMAL MAGNETIC BREAKER MCR – MOTOR CIPCUIT PROTECTOR	SERVICE ENTRANCE, SWITCHGEAR, MOTOR CONTROL CENTER, OR PANELBOARD		SPDT – SINGLE POLE, DOUBLE THROW SPST – SINGLE POLE, SINGLE THROW DPST – DOUBLE POLE, SINGLE THROW WP – WEATHER-PROOF GFI – GROUND FAULT INTERRUPT	INDICATOR LIGHT A - AMBER G - GREEN B - BLUE R - RED C - CLEAR W - WHITE INDICATOR LIGHT A - AMBER G - GREEN B - BLUE R - RED C - CLEAR W - WHITE
MCP – MOTOR CIRCUIT PROTECTOR SE – SERVICE ENTRANCE GFI – GROUND FAULT INTERRUPTER USE FUSED DISCONNECT SWITCH	SURFACE MOUNTED PANELBOARD	WALL/CEILING MOUNTED FIXTURE	P – POWER C – CONTROL J – INSTRUMENTATION PC – POWER & CONTROL CJ – CONTROL & INSTRUMENTATION CKT. – CIRCUIT	LIMIT SWITCH FLOAT SWITCH, NORMALLY OPEN FLOAT SWITCH, NORMALLY OPEN
PUSED DISCONNECT SWITCH PLUG-IN CONNECTION RTM RUN TIME METER	FLUSHED MOUNTED PANELBOARD	A CONTAINED BATTERY SURFACE OR PENDANT MOUNTED	C.O. – CONDUIT ONLY N.L. – NIGHT LIGHT AL. – ALUMINUM CU. – COPPER	LIMIT SWITCH FLOAT SWITCH, NORMALLY CLOSED FLOAT SWITCH, NORMALLY CLOSED
OC MOTOR OPERATION COUNTER	REQUIREMENTS. N1 – NEMA 1 N3R – NEMA 3R N4 – NEMA 4 N4SS – NEMA 4 STAINLESS STE N4F – NEMA 4 FIBERGLASS	FIXTURE RECESSED FIXTURE (MD) MOTION DETECTOR	HOA HAND-OFF-AUTO SWITCH RTM RUN TIME METER OC OPERATION COUNTER MRIL MOTOR RUN INDICATION LIGHT	TIME DELAY CONTACT PUSHBUTTON O TIME DELAY CONTACT, NORMALLY OPEN, TIME TO CLOSE PUSHBUTTON, NORMALLY CLOSED
REDUCED VOLTAGE STARTER	N6 – NEMA 6 N12 – NEMA 12 GASKETED EQUIPMENT MOUNTING STAND	PC PHOTO CONTROL CELL FIRE SYSTEM SYMBOLS	SFILSEAL FAIL INDICATION LIGHTSFTRSEAL FAIL TRIP RESETOTILOVER TEMPERATURE INDICATION LIGHTMOILMOTOR OVERLOAD INDICATION LIGHT	TIME DELAY CONTACT, NORMALLY CLOSED, TIME TO OPEN PUSHBUTTON, NORMALLY OPEN
MOTOR STARTER	T HEATER, WATTAGE NOTED	H HEAT DETECTOR S SMOKE DETECTOR	INDICATE TYPE BY LETTERINSTRUMENT METER(v)A - AMMETERVAR - VARMETER	TIME DELAY CONTACT TIME DELAY CONTACT, NORMALLY OPEN, TIME DELAY CONTACT, NORMALLY OPEN,
A B C D MOTOR STARTER W/ OPERATOR DEVICES A - HAND-OFF-AUTO B - OPERATIONAL COUNTER C - RUN TIME METER D - RUN LIGHT	EQUIPMENT CONNECTION	D FIRE ALARM DISPATCH STROBE ALARM A FIRE ALARM AUDIBLE/VISUAL ALARM F FIRE ALARM MANUAL PULL STATION	AHAMPERE-HOURVARHVARHOUR METERPFPOWER FACTORWWATTMETERVVOLTMETERWHWATTHOUR METERVAVOLT AMMETER	
E – FAIL LIGHT F – EMERGENCY STOP K KIRK KEY INTERLOCK	HP HORSEPOWER AS NOTED THREE PHASE MOTOR. HORSEPOWER AS NOTED	ADDITIONAL SYMBOLS SOUND SYSTEM SPEAKER	RACEWAY LEGEND SITE PLAN LEGEND P PROPOSED POWER P PROPOSED TELEDUONE	RELAY CONTACT, NC RELAY CONTACT, INSTANTANEOUS CHANGE
CONTROL POWER TRANSFORMER	HP SINGLE PHASE MOTOR. HORSEPOWER AS NOTED ELECTRICAL PLUG	SOUND SYSTEM VOLUME CONTROL	TEL PROPOSED TELEPHONE TELM PROPOSED INSTRUMENTATION FO PROPOSED FIBER OPTICS	RELAY CONTACT, NO
CURRENT TRANSFORMER	DISCONNECT SWITCH	VALVE SYMBOLS	BUILDING OR FACILITY PLAN LEGEND 480 VOLT EXPOSED RACEWAY 480 VOLT WIRING CONCEALED, UNDERGROUND,	PRESSURE SWITCH, NORMALLY OPEN
	FUSED DISCONNECT SWITCH COMBINATION MOTOR STARTER AND DISCONNECT SWITCH	VALVE	EMBEDDED, OR CONCRETE ENCASED RACEWAY 120/208/240 VOLT EXPOSED RACEWAY 120/208/240V WIRING CONCEALED, UNDERGROUND, EMBEDDED, OR CONCRETE ENCASED RACEWAY	O PRESSURE SWITCH, NORMALLY CLOSED 2 POLE SWITCH
CAPACITOR CAPACITOR ENGINE GENERATOR GENERATOR CONNECTION RECEPTACLE SOLID NEUTRAL	RECEPTACLES AND JUNCTION BOX SYMBOLS J CEILING JUNCTION BOX J WALL JUNCTION BOX J FLOOR JUNCTION BOX DUPLEX WALL RECEPTACLE, 120V	CHECK VALVE	CONTROL OR INSTRUMENTATION EXPOSED RACEWAY CONTROL OR INSTRUMENTATION, UNDERGROUND, EMBEDDED, OR CONCRETE ENCASED RACEWAY HOME RUN TO PANELBOARD OR AS INDICATED CONDUIT RUN, BROKEN AND CONTINUED SAME SHEET OR AS NOTED FLEXIBLE CONDUIT	LADDER LOGIC LINETYPES COMPONENT INSTALLED INSIDE ENCLOSURE COMPONENT INSTALLED ON FRONT OF ENCLOSURE FIELD CONNECTED COMPONENT FIELD CONNECTED COMPONENT
TB TERMINAL BLOCK SURGE PROTECTION DEVICE	WP = WEATHERPROOF G = GROUNDED IG = ISOLATED GROUND GFI = GROUND FAULT INTERRUPTER DOUBLE DUPLEX	XYZ SUPERSCRIPT XYZ X=MEASURED OR INITIATING VARIABLE ABC Y=READOUT OR FUNCTION Z=MODIFIER ABC=LOOP NUMBER BUBBLE ABC=LOOP NUMBER	CONDUIT RUN. HATCH MARKS INDICATE NUMBER CONDUIT RUN. HATCH MARKS INDICATE NUMBER OF CONDUCTORS CALLOUT INDICATING CONDUIT SIZE, NUMBER MD SIZE OF WIRE.	P&ID BUBBLE IDENTIFICATION CHART EXISTING FUNCTION () INSTRUMENT IDENTIFICATION BUBBLE
SPD SURGE PROTECTION DEVICE SURGE PROTECTION DEVICE (ALTERNATIVE) GROUNDING SYSTEM SYMBOLS	SINGLE RECEPTACLE, 120V SINGLE RECEPTACLE, 208V UPLEX FLOOR RECEPTACLE, 120V	ISA STANDARDS FOR P&ID 1st LETTER (MEASURED 2nd LETTER (READOUT 3rd LETTER OR INITIATING VARIABLE) OR FUNCTION) (MODIFIER)	CALLOUT INDICATING CONDUIT PER SCHEDULE	FIELD MOUNTED DEVICE OR INSTRUMENT
GROUND — GROUND METAL PIPE GROUND	HDSPECIAL PURPOSE WALL RECEPTACLE, RATING AS NOTEDOHOCLOCK	A ANALYSIS ALARM B BURNER (BATTERY) (BACK) C COMMUNICATION CONTROL CLOSED D DENSITY (DELAY) E VOLTAGE	CONDUIT BENT DOWN OR AWAY	FRONT PANEL MOUNTED INSTRUMENT OR DEVICE (LOCAL PANEL)
CONNECTION POINT, EXOTHERMIC WELD. CADWELD OR APPROVED EQUAL. GROUND ROD SIZED PER N.E.C. USE EXOTHERMIC WELD CONNECTION AT THE GROUND ROD.	TV TELEVISION TELEPHONE	FFLOWIIFAIL (FLOW)GGASIIGREEN BULBHHANDIMANUALIHIGHICURRENT (INTRUSION)IINDICATEIJPOWER (EQUIPMENT)III		FRONT PANEL MOUNTED INSTRUMENT OR DEVICE (LAB ROOM PANEL)
C PIGTAIL, BARE COPPER, LENGTH AS REQUIRED, 8' MINIMUM. CONNECTION POINT, MECHANICAL,	TELEPHONE/DATA WITH CABLE TELEPHONE/DATA WITHOUT CABLE	K TIME CONTROL STATION L LEVEL LIGHT M MOTION MIDDLE N USERS CHOICE O USERS CHOICE		OPERATOR INTERFACE DISPLAY (LOCAL PANEL) OPERATOR INTERFACE DISPLAY (LAB ROOM PANEL)
COMPRESSION TYPE. ELECTRICAL SITE PLAN SYMBOLS	SWITCH OUTLETS S \$ STANDARD SWITCH, 120VAC, 20 AMP S_3 \$ 3-WAY SWITCH, 120VAC, 20 AMP S_4 \$ 3-WAY SWITCH, 120VAC, 20 AMP S_4 \$ 3-POSITION SWITCH, 120VAC, 20 AMP, LABEL SWITCH POSITION HAND-OFF-MOTION OR PHOTO	P PRESSURE I (PUMP) I (PRESSURE) Q QUANTITY (EVENT) I TOTALIZE I R RADIATION (REQ'D) I RECORD I RED BULB S SPEED (SMOKE) I SWITCH I SOLENOID T TEMPERATURE I TRANSMITTER I (TRANSMITTER) U MULTI VARIABLE MULTI FUNCTION I V VISCOSITY (pH) I I I X UNCLASSIFIED I DELAYL (TELLIOPERATION I	APPEAR IN THIS SET OF F 2. THESE DRAWINGS ARE SHALL BE DETERMINED IN SHOWN ON THESE DRAWIN	GENERAL NOTES LEGEND. NOT ALL OF THE INFORMATION SHOWN ON THIS PAGE WILL PLANS. DIAGRAMMATIC ONLY; EXACT LOCATIONS OF ELECTRICAL EQUIPMENT I THE FIELD BY THE CONTRACTOR. THE INSTALLATION OF ALL EQUIPMENT NGS OR DESCRIBED IN THE SPECIFICATIONS SHALL CONFORM TO THE H IN THE LATEST EDITIONS OF ALL APPLICABLE CODES AND UTILITY
F FIBER OPTICS VAULT OR PEDESTAL G LUMINAIRE Image: State of the s	S SINGLE-POLE S PILOT-LIGHTED DEE DOUBLE-POLE S KEY-OPERATED 2 S THREE WAY S LOW VOLTAGE 3 FOUR WAY S MASTER 4 DIMMER PUSHBUTTON	Y USERS CHOICE I Z POSITION I I I I I I I I I	COMPANY STANDARDS. CO REQUIREMENTS. 3. NOTIFY THE ENGINEER I OR IF PROBLEMS ARISE DI	IMMEDIATELY IF CONFLICTS IN EQUIPMENT LOCATIONS ARE DISCOVERED DUE TO FIELD CONDITIONS, LACK OF INFORMATION OR ANY OTHER LL BE MADE FOR CHANGES WHICH HAVE NOT BEEN REVIEWED BY THE

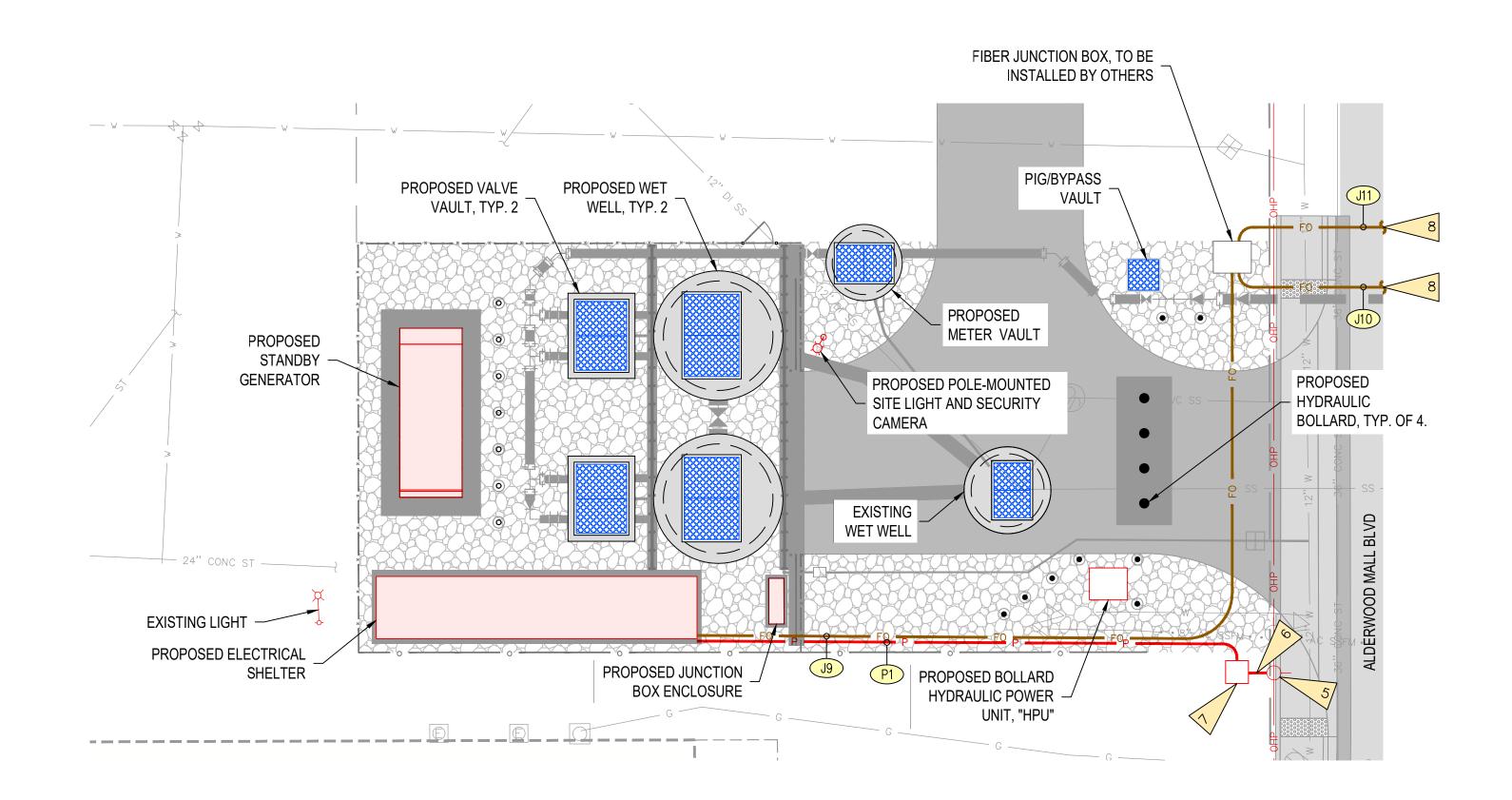
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			RJF				REVIEW
SAVE DATE: Mar 25, 2019	REVIEWED: CMR PLOT DATE: Mar 26, 2019 FILENAME: LS8-D-ELEC01.DWG	REVISIONS	03/27/19 ISSUED FOR BIDDING				NO. DATE DESCRIPTION BY
ES 0"		SCAL	E: \$	 SHO	WN		2"
1	DRAV	VING IS BAR I	FULL MEAS	SCAL	2"	EN	

CALL 48 HOURS BEFORE YOU DIG

1-800-424-5555 (811) UNDERGROUND SERVICE

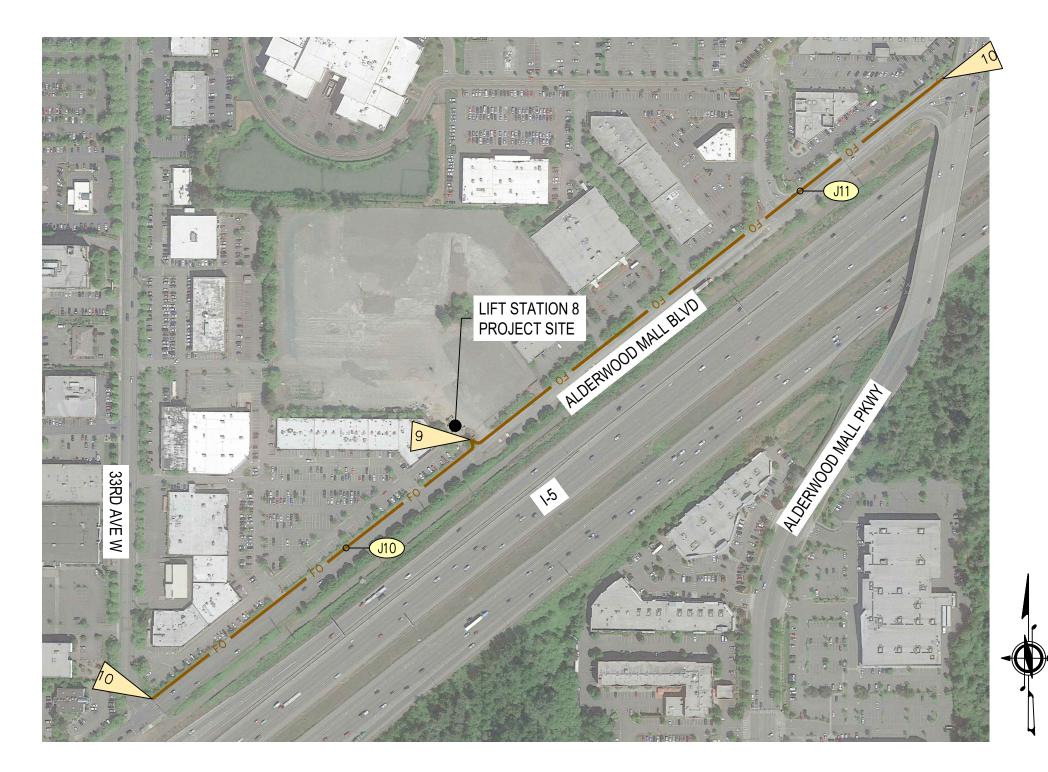


LOAD CALCULATIONS					
PUMP 1 (65 HP)	81.0A X 1.25 =	101.3 AMPS			
PUMP 2 (65 HP)	81.0A X 1.00 =	81.0 AMPS			
PUMP 3 (65 HP)	81.0A X 1.00 =	81.0 AMPS			
PUMP 4 (65 HP)	81.0 A X 1.00 =	81.0 AMPS			
LIGHTING TRANSFORMER (15 kVA)	18.1A X 1.00 =	18.1 AMPS			
TOTAL		362.4 AMPS			



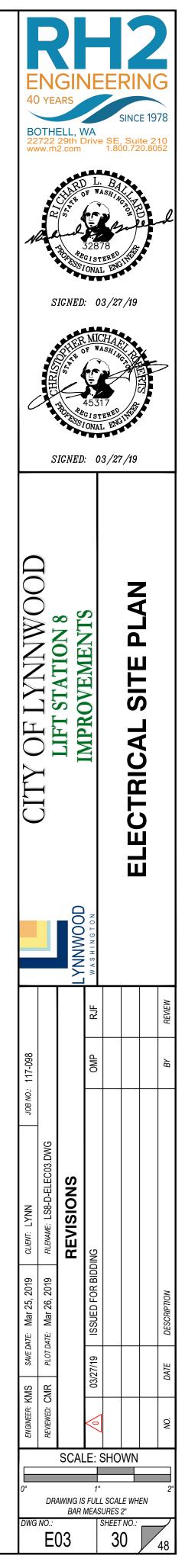
	ELECTRICAL NOTES					
XX	1. SEE DWG NO. E12 FOR CONDUIT AND CONDUCTOR SCHEDULE.					
(\mathbf{X})	2. SEE DWG NO. E12 FOR ELECTRICAL EQUIPMENT SCHEDULE.					
	3. SEE DWG NO. E04 FOR UNDERGROUND CONDUITS BETWEEN ELECTRICAL SHELTER, GENERATOR, WET WELLS, AND VAULTS.					
	4. CONTRACTOR SHALL COORDINATE SECONDARY POWER REQUIREMENTS WITH SNOHOMISH COUNTY PUD. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NOT PERFORMED BY PUD.					
5	5. PROPOSED POLE MOUNTED TRANSFORMERS BY SNOHOMISH COUNTY PUD INSTALLED ON EXISTING POLE.					
6	6. PROPOSED UNDERGROUND SECONDARY POWER SERVICE TO POWER HAND HOLE. CONTRACTOR SHALL PROVIDE AND INSTALL 6" PVC CONDUIT FROM POWER HAND HOLE TO EXISTING UTILITY POLE, USING A 60" RADIUS STEEL ELBOW TO TERMINATE THE CONDUIT AT LEAST 6" FROM THE POLE. SNOHOMISH COUNTY PUD SHALL PROVIDE AND INSTALL SECONDARY SERVICE CONDUCTORS TO POWER HAND HOLE.					
7	7. PROPOSED POWER HAND HOLE. CONTRACTOR SHALL PROVIDE EXCAVATION AND RESTORATION FOR POWER HAND HOLE. CONTRACTOR SHALL PROVIDE AND INSTALL POWER HAND HOLE PER SNOHOMISH COUNTY PUD REQUIREMENTS.					
8	8. SEE FIBER OPTIC CONNECTION PLAN FOR CONTINUATION, THIS SHEET.					
9	9. SEE ELECTRICAL SITE PLAN FOR CONTINUATION, THIS SHEET.					
10	10. SEE APPENDIX FOR FIBER OPTIC CONNECTION LOCATION. CONTRACTOR SHALL CONNECT PROPOSED FIBER OPTIC CABLE TO EXISTING CITY FIBER OPTIC NETWORK AT EACH LOCATION.					

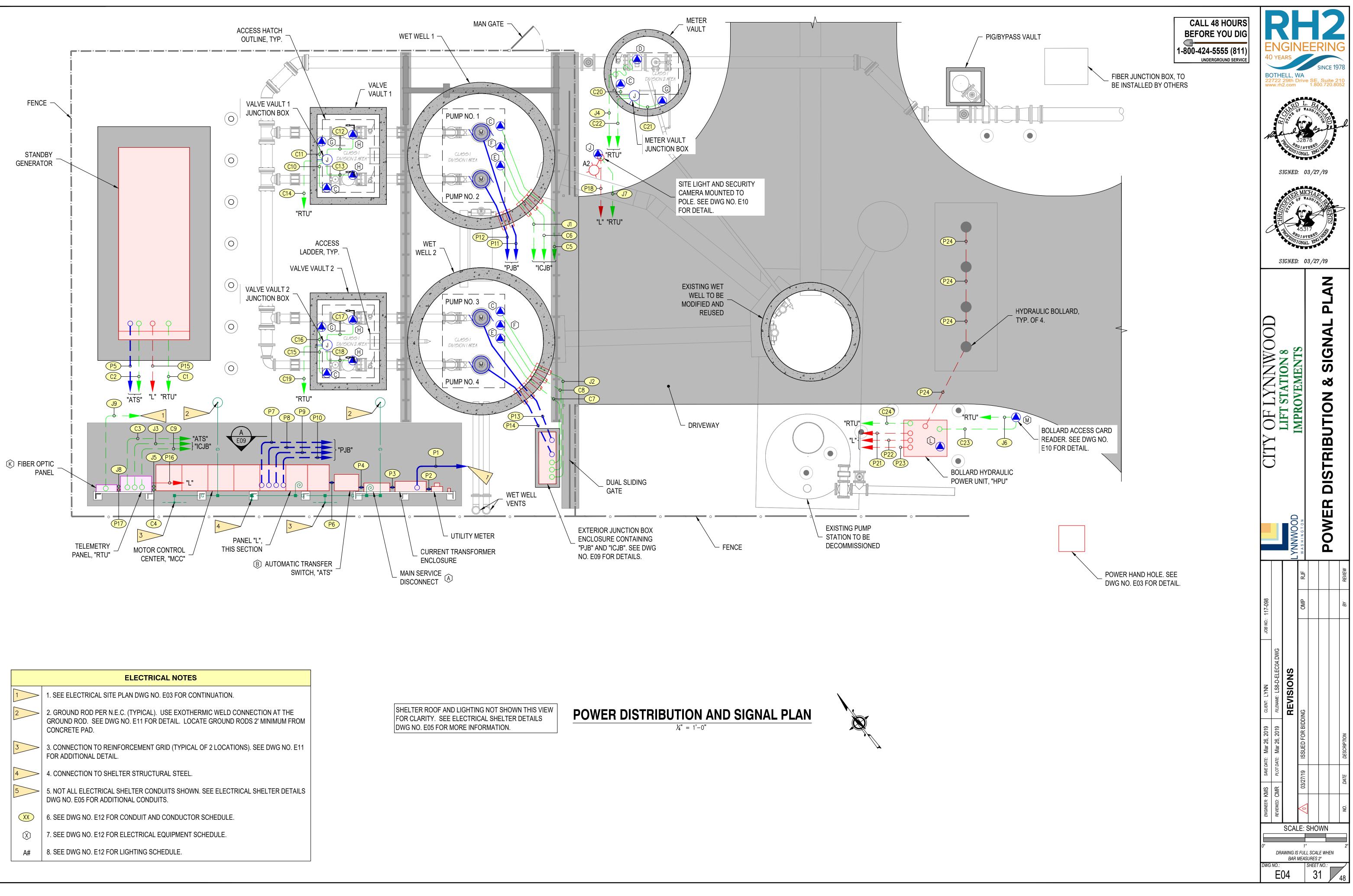




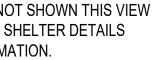
FIBER OPTIC CONNECTION PLAN

1" = 250'

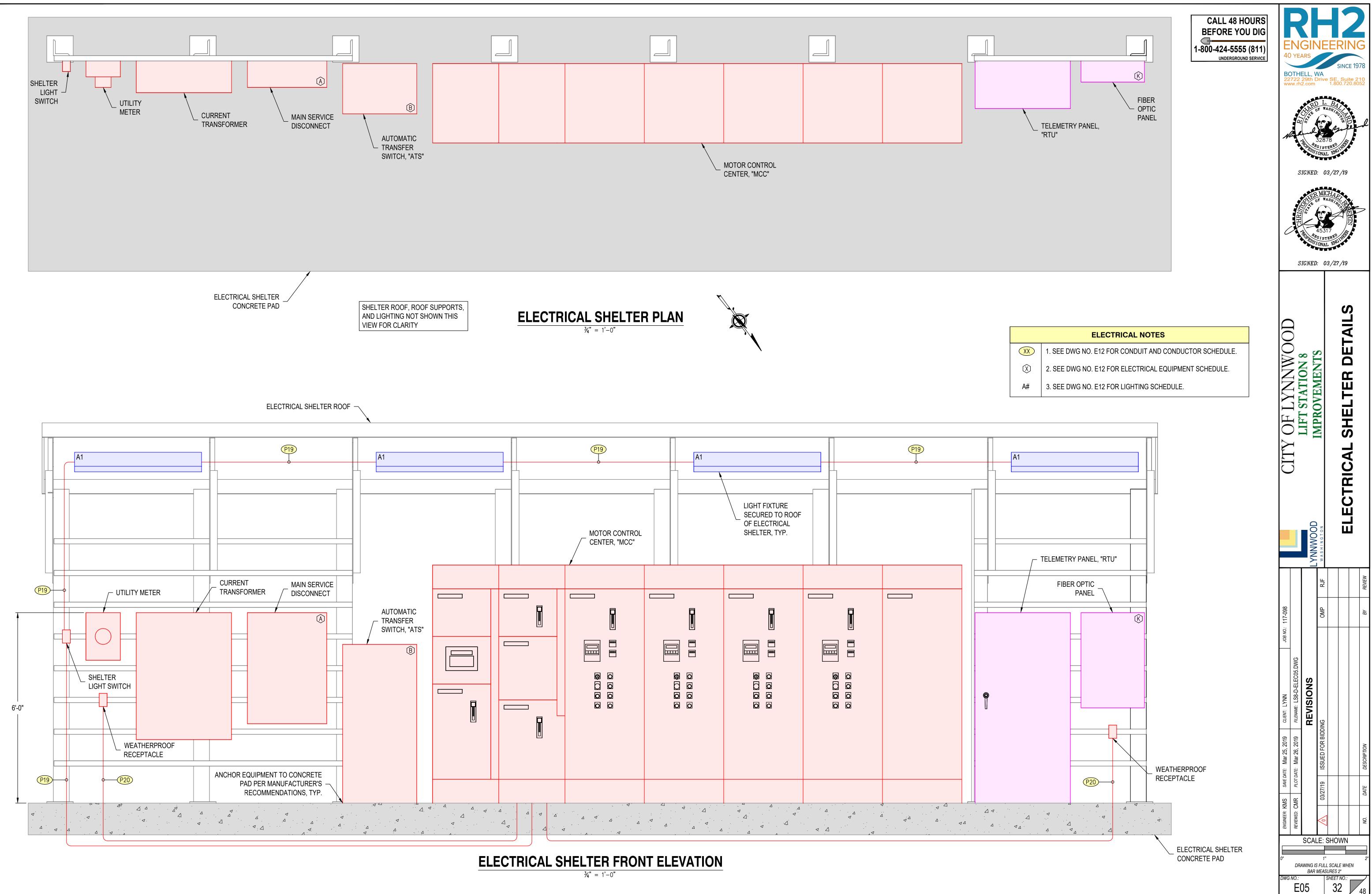


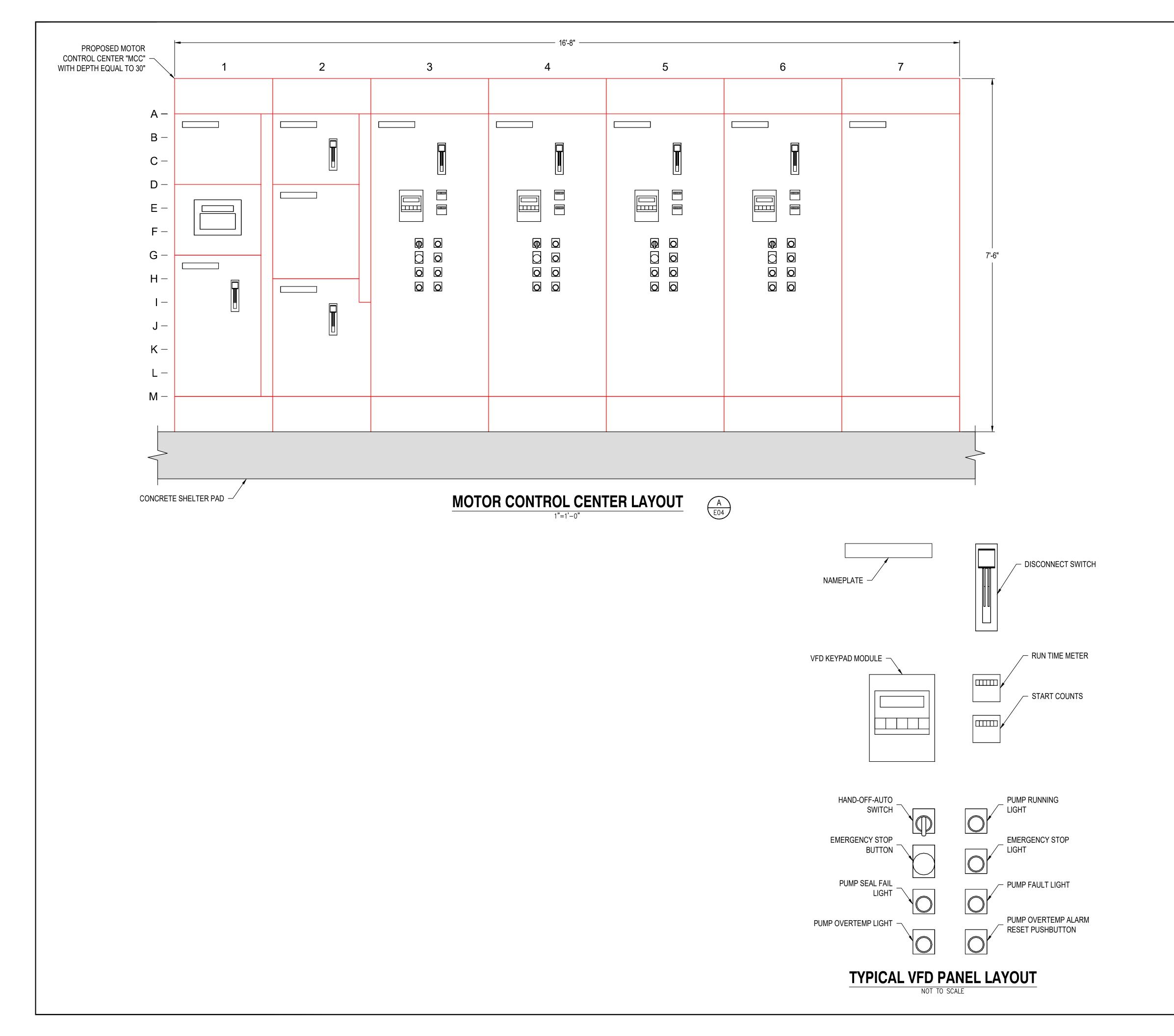


ELECTRICAL NOTES					
1	1. SEE ELECTRICAL SITE PLAN DWG NO. E03 FOR CONTINUATION.				
2	2. GROUND ROD PER N.E.C. (TYPICAL). USE EXOTHERMIC WELD CONNECTION AT THE GROUND ROD. SEE DWG NO. E11 FOR DETAIL. LOCATE GROUND RODS 2' MINIMUM FROM CONCRETE PAD.				
3	3. CONNECTION TO REINFORCEMENT GRID (TYPICAL OF 2 LOCATIONS). SEE DWG NO. E11 FOR ADDITIONAL DETAIL.				
4	4. CONNECTION TO SHELTER STRUCTURAL STEEL.				
5	5. NOT ALL ELECTRICAL SHELTER CONDUITS SHOWN. SEE ELECTRICAL SHELTER DETAILS DWG NO. E05 FOR ADDITIONAL CONDUITS.				
XX	6. SEE DWG NO. E12 FOR CONDUIT AND CONDUCTOR SCHEDULE.				
(\hat{X})	7. SEE DWG NO. E12 FOR ELECTRICAL EQUIPMENT SCHEDULE.				
A#	8. SEE DWG NO. E12 FOR LIGHTING SCHEDULE.				

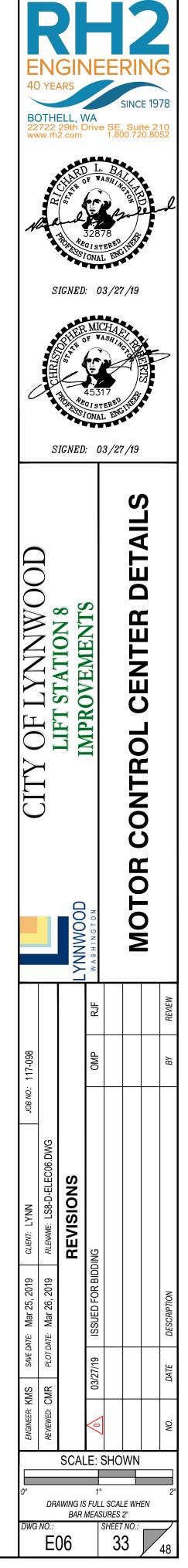


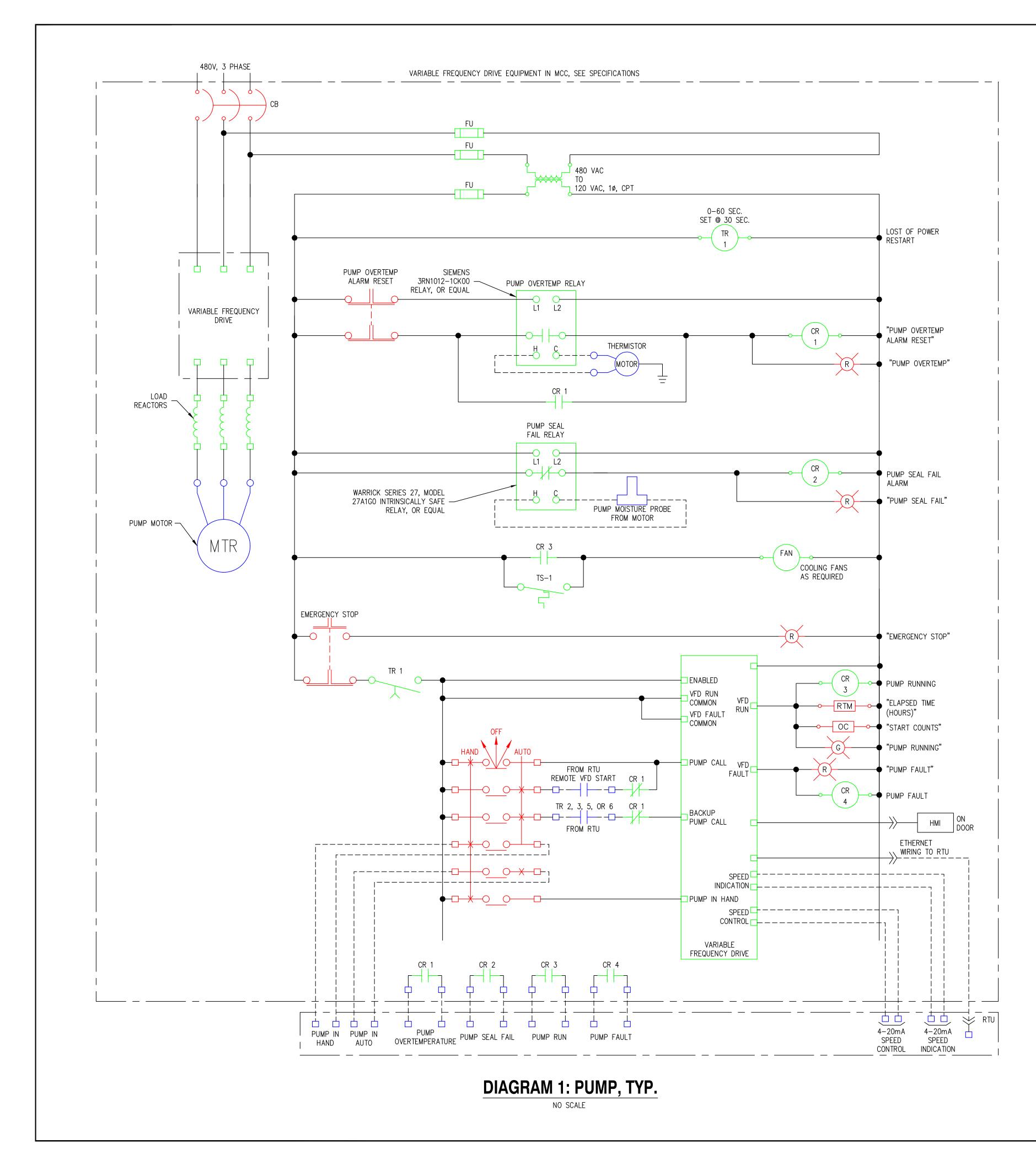


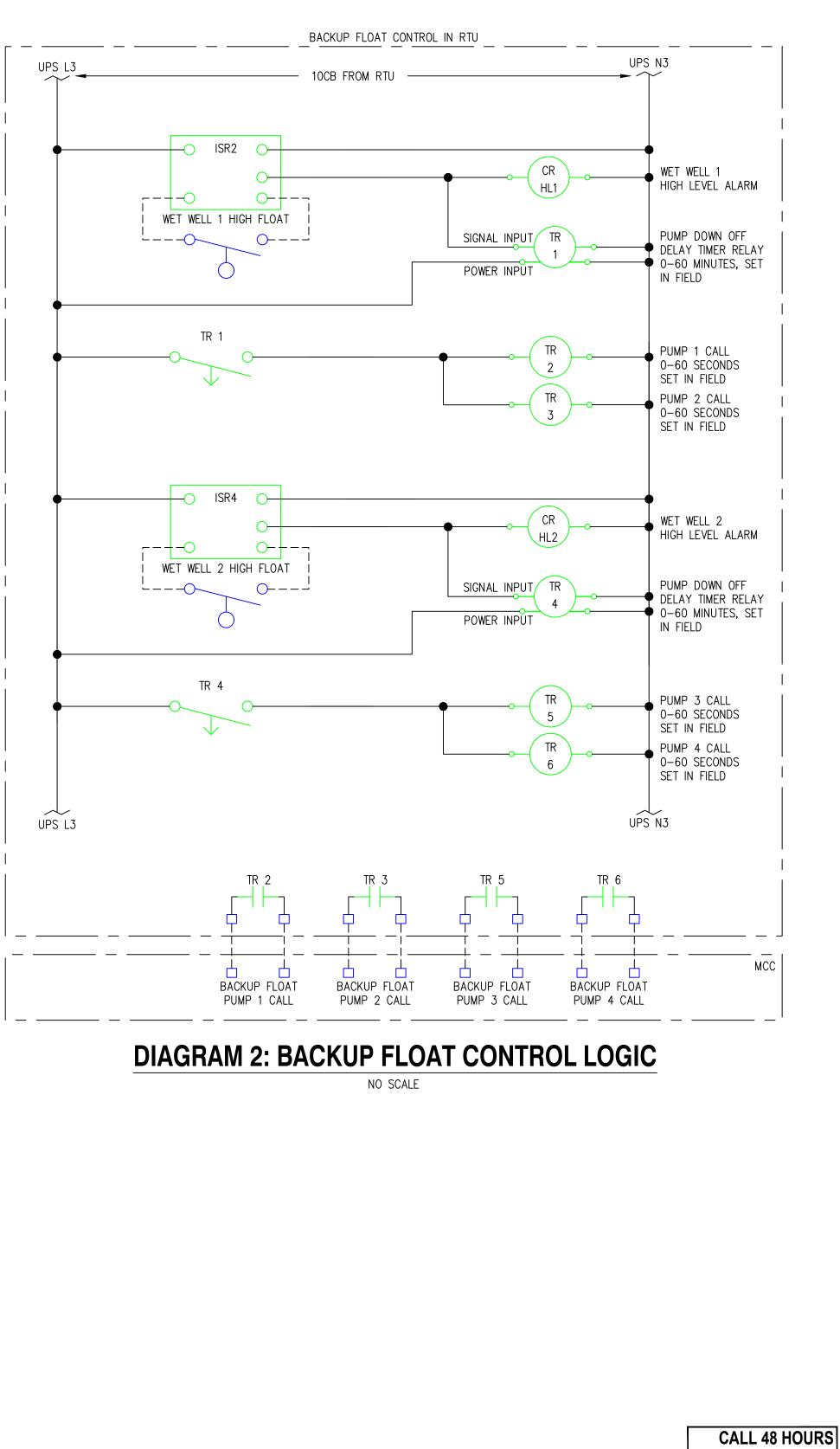


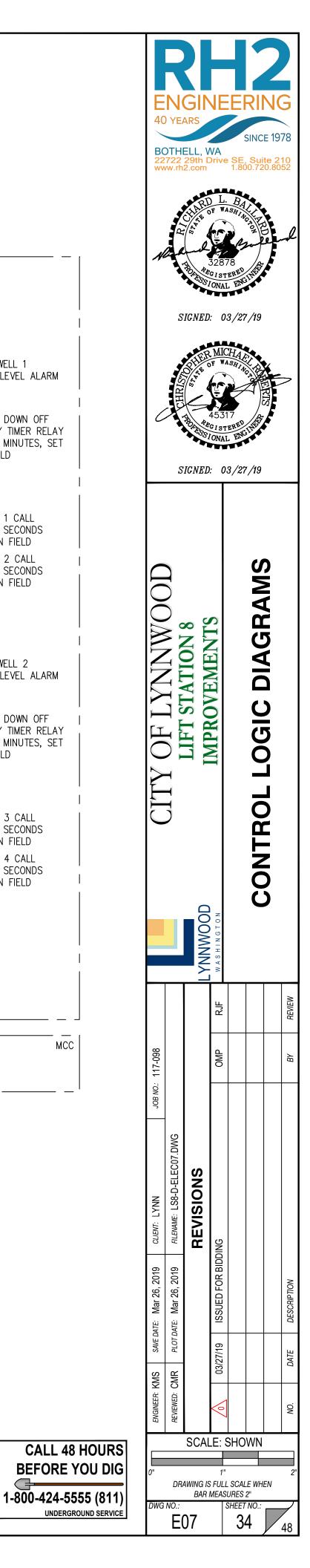


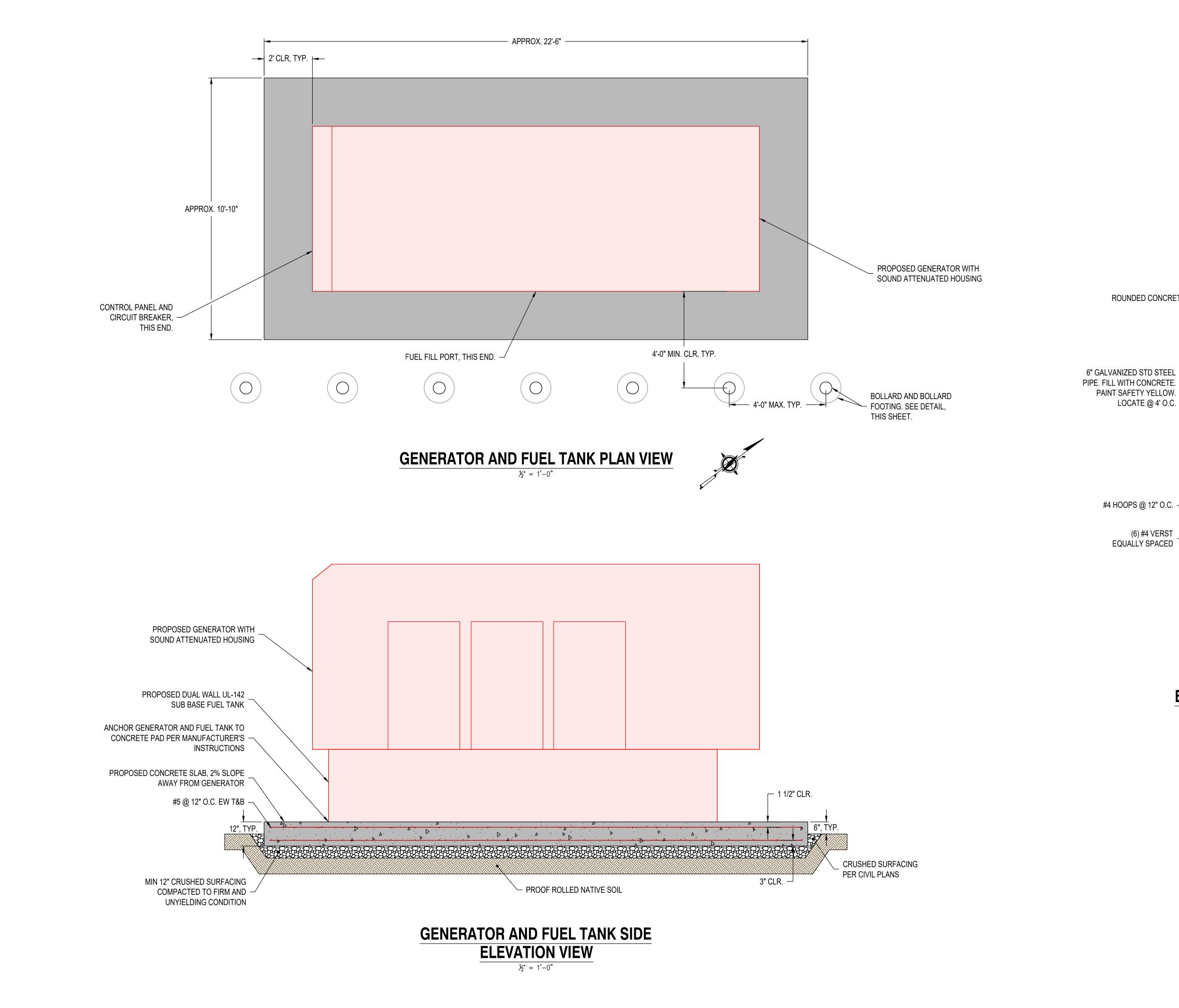
	MCC CONTROL DEVICES
MCC SECTION	NAMEPLATE SCHEDULE
1A	SURGE PROTECTION DEVICE (SPD)
1D	POWER MONITOR
1G	MCC MAIN DISCONNECT
2A	ACTIVE HARMONIC FILTER FEEDER
2D	PANEL "L"
2H	LIGHTING TRANSFORMER AND DISCONNECT
3A	PUMP 1 ELAPSED TIME (HOURS) START COUNTS EMERGENCY STOP PUMP RUNNING PUMP FAULT PUMP HAND-OFF-AUTO PUMP OVERTEMP ALARM EMERGENCY STOP PUMP OVERTEMP ALARM RESET
4A	PUMP 2 ELAPSED TIME (HOURS) START COUNTS EMERGENCY STOP PUMP RUNNING PUMP FAULT PUMP HAND-OFF-AUTO PUMP OVERTEMP ALARM PUMP SEAL FAIL ALARM EMERGENCY STOP PUMP OVERTEMP ALARM RESET
5A	PUMP 3 ELAPSED TIME (HOURS) START COUNTS EMERGENCY STOP PUMP RUNNING PUMP FAULT PUMP HAND-OFF-AUTO PUMP OVERTEMP ALARM PUMP SEAL FAIL ALARM EMERGENCY STOP PUMP OVERTEMP ALARM RESET
6A	PUMP 4 ELAPSED TIME (HOURS) START COUNTS EMERGENCY STOP PUMP RUNNING PUMP FAULT PUMP HAND-OFF-AUTO PUMP OVERTEMP ALARM PUMP SEAL FAIL ALARM EMERGENCY STOP PUMP OVERTEMP ALARM RESET
7A	ACTIVE HARMONIC FILTER

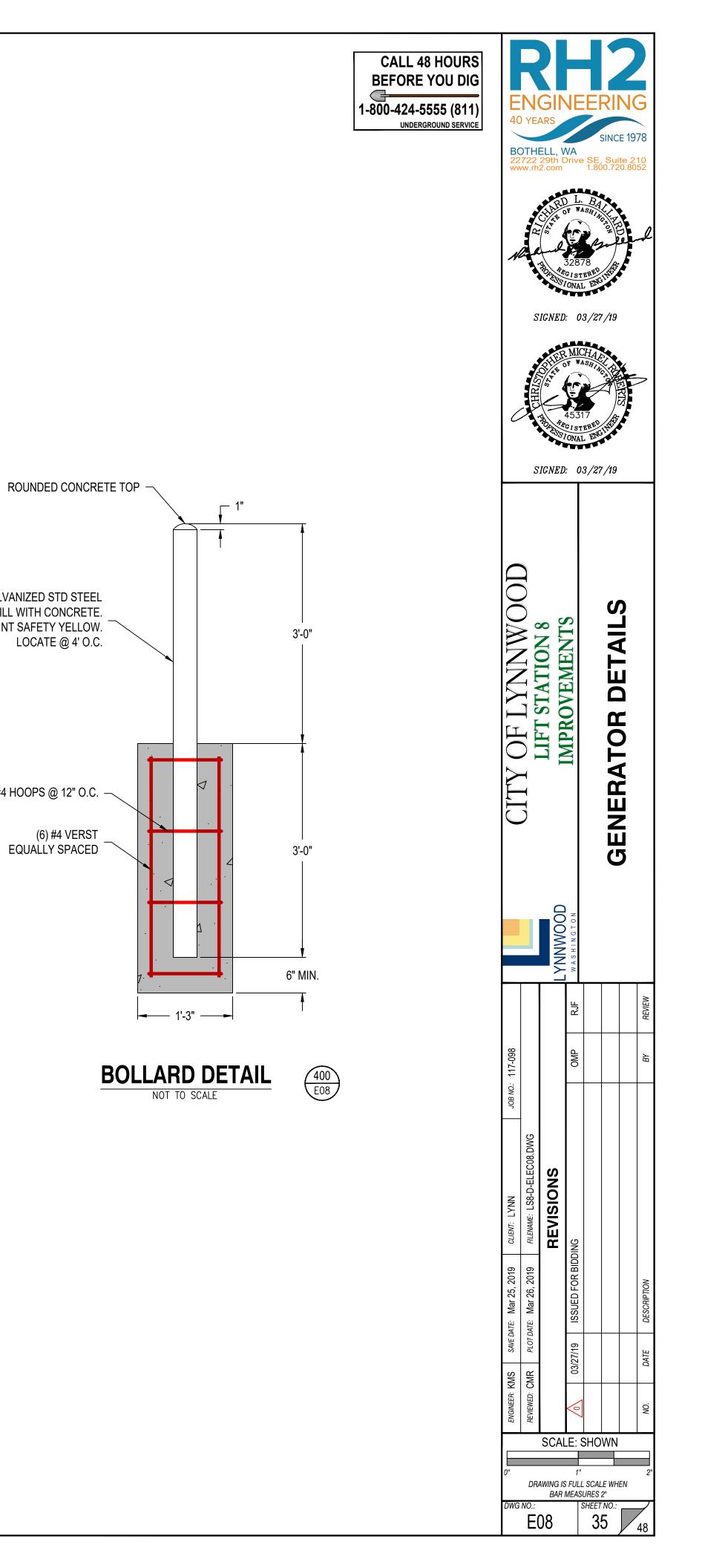


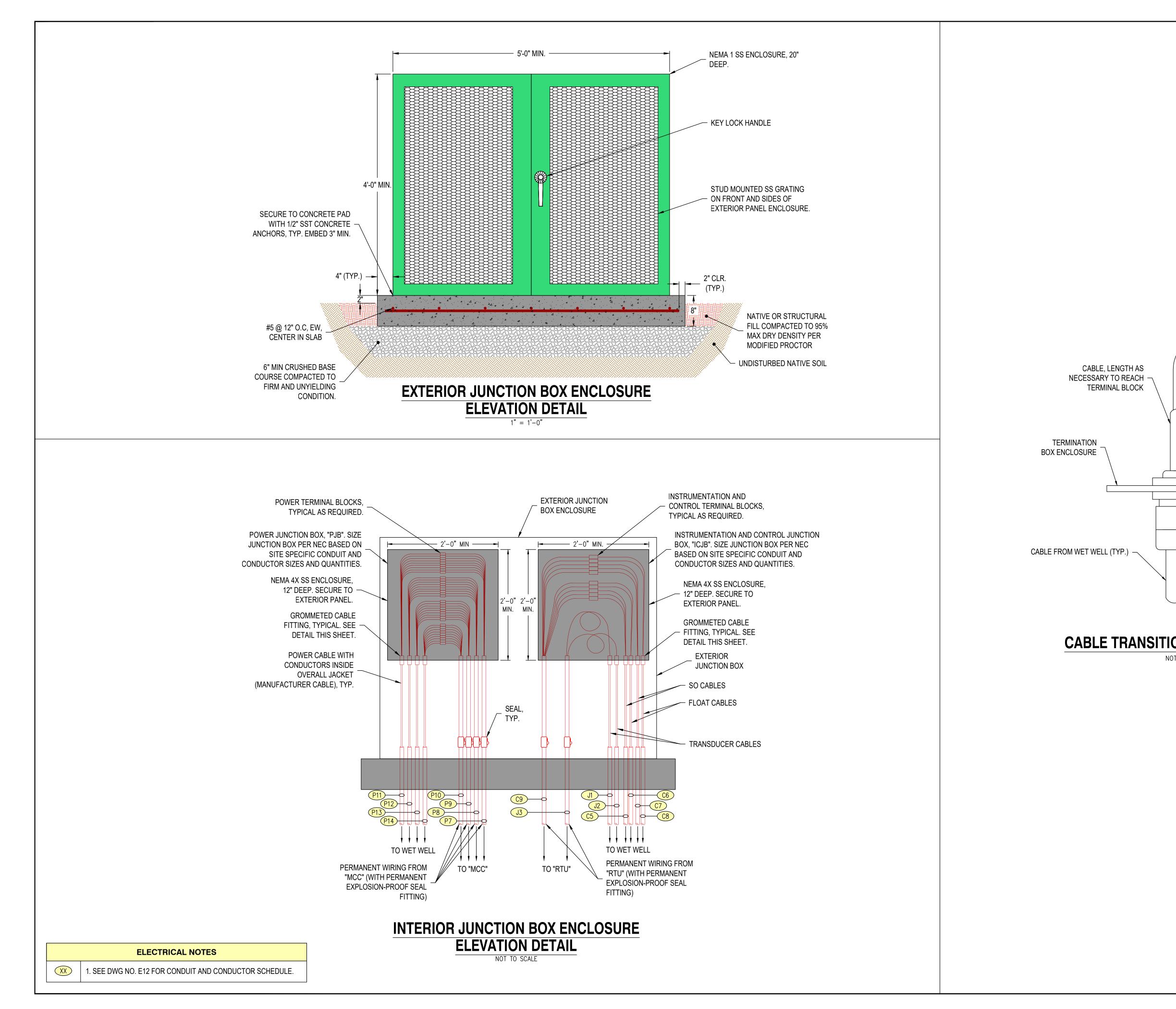


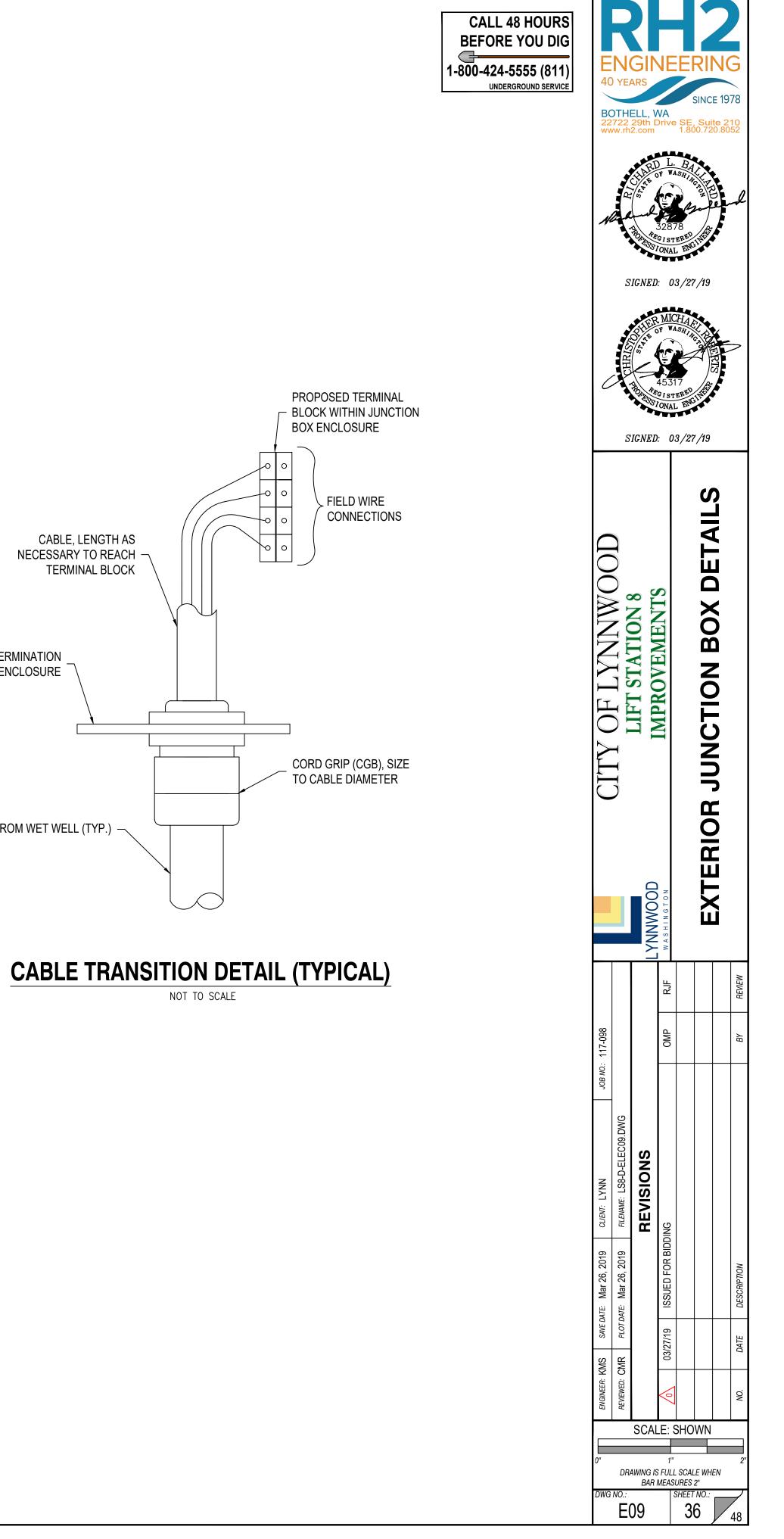


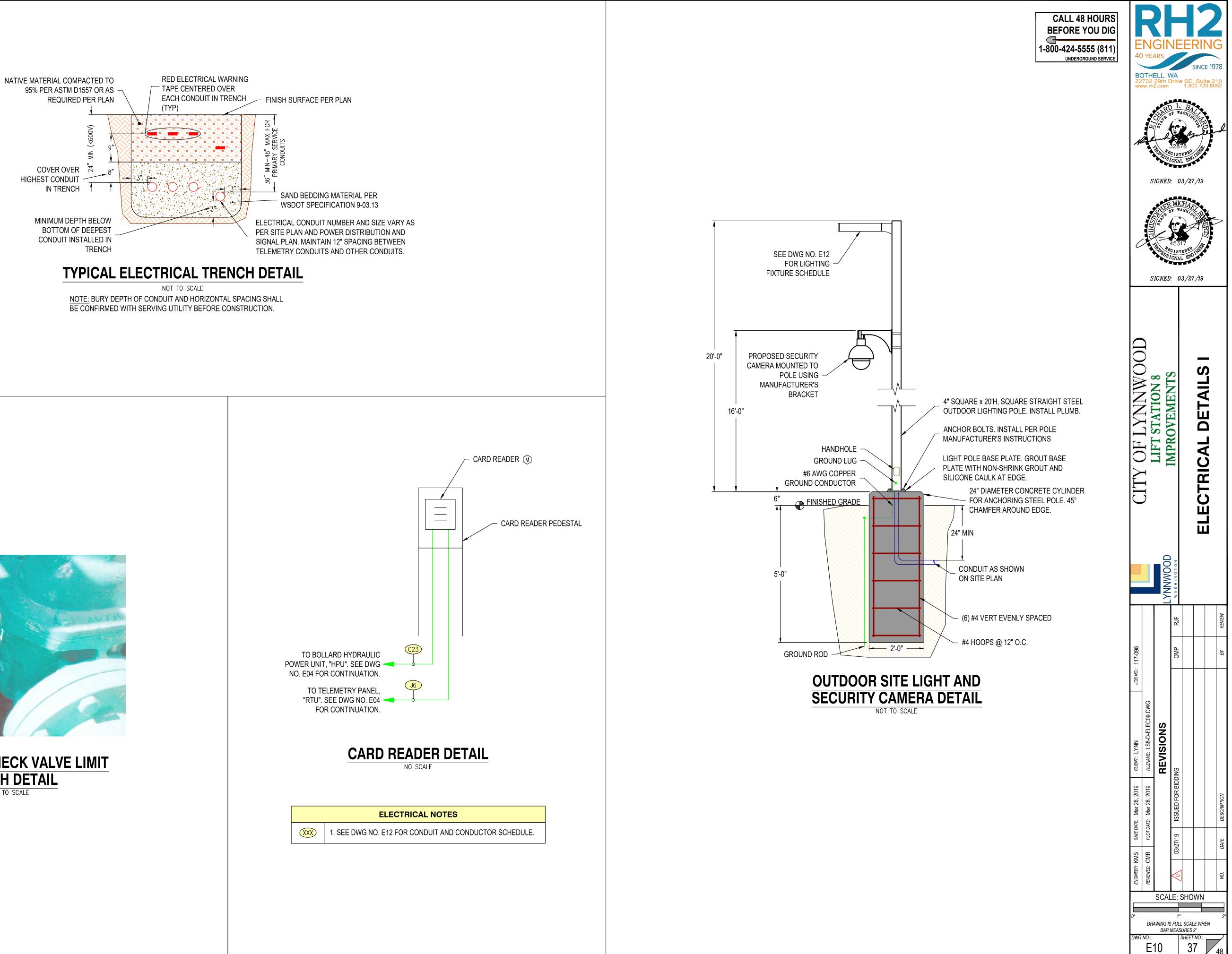


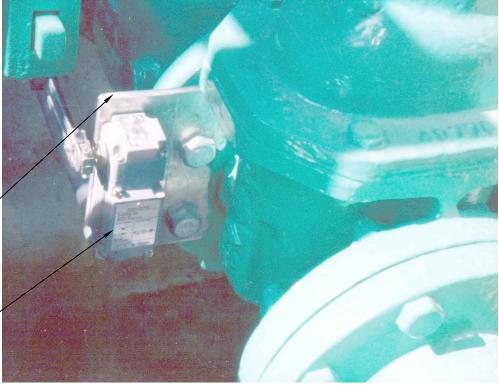








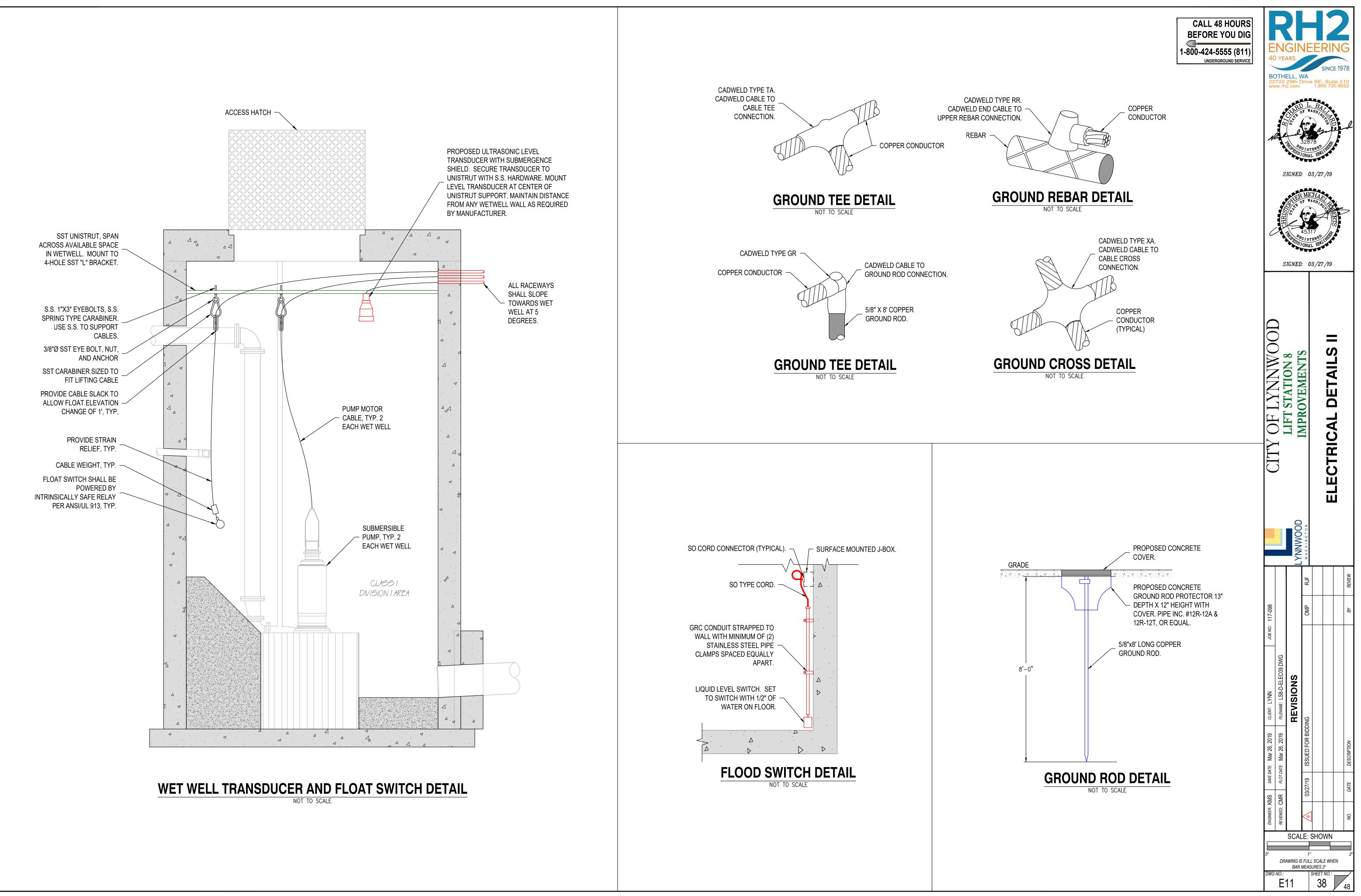




PROPOSED BRUSHED STAINLESS STEEL PLATE MOUNTED TO VALVE FLANGE.

> PROPOSED LIMIT SWITCH.

> > **PROPOSED CHECK VALVE LIMIT** SWITCH DETAIL



	POWER CONDUIT AND CONDUCTOR SCHEDULE							
CIRCUIT SOURCE	DESTINATION	TRADE SIZE (QUANTITY) CONDUCTORS	NOTES					
P1 POWER HANDHOLE	CURRENT TRANSFORMER	(2) - 3" (3) - #350 MCM, (1) - #350 MCM N	PARALLEL CONDUCTORS					
P2 CURRENT TRANSFORMER	UTILITY METER	1 1/4" (13) - #14						
P3 CURRENT TRANSFORMER	MAIN SERVICE DISCONNECT	(2) - 3" (3) - #350 MCM, (1) - #350 MCM N	PARALLEL CONDUCTORS					
P4 MAIN SERVICE DISCONNECT	AUTOMATIC TRANSFER SWITCH, "ATS"	(2) - 3" (3) - #350 MCM, (1) - #350 MCM N, (1) - #1 GRD	PARALLEL CONDUCTORS					
P5 STANDBY GENERATOR	AUTOMATIC TRANSFER SWITCH, "ATS"	(2) - 3" (3) - #350 MCM, (1) - #350 MCM N, (1) - #1 GRD	PARALLEL CONDUCTORS					
P6 AUTOMATIC TRANSFER SWITCH, "ATS"	MOTOR CONTROL CENTER, "MCC"	(2) - 3" (3) - #350 MCM, (1) - #350 MCM N, (1) - #1 GRD	PARALLEL CONDUCTORS					
(P7) MOTOR CONTROL CENTER, "MCC"	POWER JUNCTION BOX, "PJB"	1 1/2" (3) - #2, (5) - #14, (1) - #6 GRD						
(P8) MOTOR CONTROL CENTER, "MCC"	POWER JUNCTION BOX, "PJB"	1 1/2" (3) - #2, (5) - #14, (1) - #6 GRD						
(P9) MOTOR CONTROL CENTER, "MCC"	POWER JUNCTION BOX, "PJB"	1 1/2" (3) - #2, (5) - #14, (1) - #6 GRD						
(P10) MOTOR CONTROL CENTER, "MCC"	POWER JUNCTION BOX, "PJB"	1 1/2" (3) - #2, (5) - #14, (1) - #6 GRD						
P11 POWER JUNCTION BOX, "PJB"	PUMP 1	2 1/2" MANUFACTURER'S CABLE(S)						
POWER JUNCTION BOX, "PJB"	PUMP 2	2 1/2" MANUFACTURER'S CABLE(S)						
(P13) POWER JUNCTION BOX, "PJB"	PUMP 3	2 1/2" MANUFACTURER'S CABLE(S)						
P14 POWER JUNCTION BOX, "PJB"	PUMP 4	2 1/2" MANUFACTURER'S CABLE(S)						
(P15) LIGHTING PANEL "L"	STANDBY GENERATOR	3/4" (4) - #12, (1) - #12 GRD	BLOCK HEATER AND BATTERY CHARGER					
P16 LIGHTING PANEL "L"	TELEMETRY PANEL, "RTU"	3/4" (2) - #12, (1) - #12 GRD						
(P17) TELEMETRY PANEL, "RTU"	FIBER OPTIC PANEL	3/4" (2) - #12, (1) - #12 GRD						
(P18) LIGHTING PANEL "L"	SITE LIGHTING	3/4" (2) - #12, (1) - #12 GRD						
(P19) LIGHTING PANEL "L"	SHELTER LIGHTING	3/4" (2) - #12, (1) - #12 GRD						
P20 LIGHTING PANEL "L"	SHELTER RECEPTACLES	3/4" (2) - #12, (1) - #12 GRD						
P21 LIGHTING PANEL "L"	BOLLARD HYDRAULIC POWER UNIT, "HPU"	3/4" (2) - #12, (1) - #12 GRD	BOLLARD SYSTEM CONTROL PANEL					
P22 LIGHTING PANEL "L"	BOLLARD HYDRAULIC POWER UNIT, "HPU"	3/4" (3) - #12, (1) - #12 GRD	BOLLARD SYSTEM HYDRAULIC MOTOR					
P23 LIGHTING PANEL "L"	BOLLARD HYDRAULIC POWER UNIT, "HPU"	3/4" (2) - #12, (1) - #12 GRD	BOLLARD SYSTEM HEAT TAPE					
(P24) BOLLARD HYDRAULIC POWER UNIT, "HPU"	HYDRAULIC BOLLARDS	(2) – 1" MANUFACTURER CABLE(S)						

CONTROL CONDUIT AND CONDUCTOR SCHEDULE							
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES		
<u>C1</u>	TELEMETRY PANEL, "RTU"	STANDBY GENERATOR	3/4"	(10) - #14, (1) - #14 GRD			
<u>C2</u>	AUTOMATIC TRANSFER SWITCH, "ATS"	STANDBY GENERATOR	3/4"	(3) - #14, (1) - #14 GRD			
<u>C3</u>	AUTOMATIC TRANSFER SWITCH, "ATS"	TELEMETRY PANEL, "RTU"	3/4"	(8) - #14, (1) - #14 GRD			
<u>C4</u>	TELEMETRY PANEL, "RTU"	MOTOR CONTROL CENTER, "MCC"	1 1/2"	(66) - #14, (1) - #14 GRD			
<u>C5</u>	INSTRUMENTATION AND CONTROL JUNCTION BOX, "ICJB"	WET WELL 1 INTRUSION SWITCH	3/4"	SO CABLE			
60	INSTRUMENTATION AND CONTROL JUNCTION BOX, "ICJB"	WET WELL 1 FLOAT	1 1/4"	FLOAT CABLE			
<u>C7</u>	INSTRUMENTATION AND CONTROL JUNCTION BOX, "ICJB"	WET WELL 2 INTRUSION SWITCH	3/4"	SO CABLE			
<u>(8)</u>	INSTRUMENTATION AND CONTROL JUNCTION BOX, "ICJB"	WET WELL 2 FLOAT	1 1/4"	FLOAT CABLE			
(0)	TELEMETRY PANEL, "RTU"	INSTRUMENTATION AND CONTROL JUNCTION BOX, "ICJB"	3/4"	(8) - #14, (1) - #14 GRD	INTRINSICALLY SAFE CIRCUITS		
<u>C10</u>	VALVE VAULT 1 JUNCTION BOX	VALVE VAULT 1 INTRUSION SWITCH	3/4"	(2) - #14, (1) - #14 GRD	INTRINSICALLY SAFE CIRCUIT		
C11	VALVE VAULT 1 JUNCTION BOX	VALVE VAULT 1 FLOOD SWITCH	3/4"	(2) - #14, (1) - #14 GRD	INTRINSICALLY SAFE CIRCUIT		
<u>C12</u>	VALVE VAULT 1 JUNCTION BOX	CHECK VALVE LIMIT SWITCH 1	3/4"	(2) - #14, (1) - #14 GRD	INTRINSICALLY SAFE CIRCUIT		
C13	VALVE VAULT 1 JUNCTION BOX	CHECK VALVE LIMIT SWITCH 2	3/4"	(2) - #14, (1) - #14 GRD	INTRINSICALLY SAFE CIRCUIT		
C14	TELEMETRY PANEL, "RTU"	VALVE VAULT 1 JUNCTION BOX	3/4"	(8) - #14, (1) - #14 GRD	INTRINSICALLY SAFE CIRCUITS		
C15	VALVE VAULT 2 JUNCTION BOX	VALVE VAULT 2 INTRUSION SWITCH	3/4"	(2) - #14, (1) - #14 GRD	INTRINSICALLY SAFE CIRCUIT		
C16	VALVE VAULT 2 JUNCTION BOX	VALVE VAULT 2 FLOOD SWITCH	3/4"	(2) - #14, (1) - #14 GRD	INTRINSICALLY SAFE CIRCUIT		
<u>C17</u>	VALVE VAULT 2 JUNCTION BOX	CHECK VALVE LIMIT SWITCH 3	3/4"	(2) - #14, (1) - #14 GRD	INTRINSICALLY SAFE CIRCUIT		
C18	VALVE VAULT 2 JUNCTION BOX	CHECK VALVE LIMIT SWITCH 4	3/4"	(2) - #14, (1) - #14 GRD	INTRINSICALLY SAFE CIRCUIT		
<u>C19</u>	TELEMETRY PANEL, "RTU"	VALVE VAULT 2 JUNCTION BOX	3/4"	(8) - #14, (1) - #14 GRD	INTRINSICALLY SAFE CIRCUITS		
<u>C20</u>	METER VAULT JUNCTION BOX	METER VAULT INTRUSION SWITCH	3/4"	(2) - #14, (1) - #14 GRD			
C21	METER VAULT JUNCTION BOX	METER VAULT FLOOD SWITCH	3/4"	(2) - #14, (1) - #14 GRD			
<u>C22</u>	TELEMETRY PANEL, "RTU"	METER VAULT JUNCTION BOX	3/4"	(4) - #14, (1) - #14 GRD			
C23	BOLLARD ACCESS CARD READER	BOLLARD HYDRAULIC POWER UNIT, "HPU"	3/4"	(2) - #14, (1) - #14 GRD			
<u>C24</u>	TELEMETRY PANEL, "RTU"	BOLLARD HYDRAULIC POWER UNIT, "HPU"	3/4"	(12) - #14, (1) - #14 GRD			
C25	EMERGENCY VEHICLE ACCESS SYSTEM DETECTOR	BOLLARD HYDRAULIC POWER UNIT, "HPU"	3/4"	(4) - #14, (1) - #14 GRD	INTERNAL ENCLOSURE CONDUIT		

	INSTRUMENTATION CONDUIT AND CONDUCTOR SCHEDULE							
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES			
J	INSTRUMENTATION AND CONTROL JUNCTION BOX, "ICJB"	WET WELL 1 ULTRASONIC LEVEL TRANSDUCER	1"	MANUFACTURER'S TRANSDUCER CABLE				
J2	INSTRUMENTATION AND CONTROL JUNCTION BOX, "ICJB"	WET WELL 2 ULTRASONIC LEVEL TRANSDUCER	1"	MANUFACTURER'S TRANSDUCER CABLE				
JJ	TELEMETRY PANEL, "RTU"	INSTRUMENTATION AND CONTROL JUNCTION BOX, "ICJB"	1"	(2) 2 CONDUCTOR SHIELDED CABLES				
J4	TELEMETRY PANEL, "RTU"	FLOW METER	(2) 1 1/2"	MANUFACTURER'S CABLE(S)				
<u>J5</u>	TELEMETRY PANEL, "RTU"	MOTOR CONTROL CENTER, "MCC"	2 1/2"	(8) 2 CONDUCTOR SHIELDED CABLES(6) CAT 5E SHIELDED ETHERNET CABLES				
J6	TELEMETRY PANEL, "RTU"	BOLLARD ACCESS CARD READER	1"	(1) CAT 5E ETHERNET CABLE				
J 7	TELEMETRY PANEL, "RTU"	SITE SECURITY CAMERA	1"	(1) CAT 5E ETHERNET CABLE				
JB	TELEMETRY PANEL, "RTU"	FIBER OPTIC PANEL	1"	(2) CAT 5E ETHERNET CABLES				
J9	FIBER OPTIC PANEL	FIBER OPTIC JUNCTION BOX	2"	(2) FIBER OPTIC CABLES (12–STRAND)				
J10	FIBER OPTIC JUNCTION BOX	FIBER OPTIC PATCH CABINET AT ALDERWOOD MALL BLVD & 33RD AVE W	-	FIBER OPTIC CABLE (12-STRAND)	ROUTE PROPOSED CABLE IN EXISTING CONDUIT			
J11	FIBER OPTIC JUNCTION BOX	FIBER OPTIC PATCH CABINET AT ALDERWOOD MALL BLVD & ALDERWOOD MALL PKWY	-	FIBER OPTIC CABLE (12-STRAND)	ROUTE PROPOSED CABLE IN EXISTING CONDUIT			

	LIGHTING FIXTURE SCHEDULE							
TYPE	DESCRIPTION	MANUFACTURER NAME	MANUFACTURER CATALOG NO.	LAMP QTY. *	LAMP CATALOG NO.	REMARKS		
A1	LED LIGHT FIXTURE, 120 VAC, 4'-4" LONG, 45 WATT, 60,000 HOUR LED, HIGH EFFICIENCY DRIVER, HIGH-IMPACT ACRYLIC LENS, MOLDED FIBERGLASS HOUSING, CEILING MOUNTED, U.L. LISTED FOR WET LOCATIONS.	LITHONIA	FEM L48 6000LM IMAFL	1	INTEGRATED LED			
A2	LED POLE MOUNTED LIGHT - (1)-140W 80C LED. 530mA, 5000K COLOR TEMPERATURE 120VAC, WITH FUSE PROTECTION, PROVIDE FIXTURE WITH BRACKETRY TO MOUNT TO LIGHT POLE. PROVIDE FIXTURE WITH INTEGRATED PHOTOCELL CONTROL. U.L. LISTED FOR WET LOCATIONS., 20FT HOT-ROLLED CARBON STEEL POLE.	LITHONIA	LIGHT – DSX2 LED P1 50K TFTM 120 SPA SF DDBXD POLE – SSS 20 4C DDB OR EQUAL	N/A	140 WATT	PROVIDE WITH PHOTOCELL CONTROLLER		

★ NUMBER OF LAMPS PER FIXTURE

	ELECTRICAL EQUIPMENT AND INSTRUME	NTATION SCHED	ULE
ITEM	DESCRIPTION	MANUFACTURER	MODE
Â	MAIN SERVICE DISCONNECT SWITCH - NEMA 4X SS ENCLOSURE, HEAVY DUTY BREAKER, SERVICE ENTRANCE RATED, ELECTRONIC TRIP, 600 AMP, 480 VOLT, 3¢ 65 KAIC WITHSTAND, CIRCUIT BREAKER SWITCH.	SIEMENS	SHLD6 O
B	AUTOMATIC TRANSFER SWITCH – NEMA 3R ENCLOSURE, 600 AMP, 480 VOLT, 3 PHASE, 3 POLE.	SEE SPECIFICATIONS	SEE SPEC
Ĉ	INTRUSION ALARM SWITCH – CONTRACTOR SHALL SELECT ACTUATOR LEVER ARM BEST SUITED FOR MOUNTING CONFIGURATION. SWITCH SHALL BE A HAZARDOUS LOCATION SEALED SWITCH RATED FOR CLASS 1 DIVISION 1 LOCATIONS.	ALLEN-BRADLEY	HAZAF LOCATIOI SEF
\bigcirc	FLOW METER	SEE SPECIFICATIONS	SEE SPEC
Ê	ULTRASONIC LEVEL TRANSMITTER	SEE SPECIFICATIONS	SEE SPEC
F	WET WELL LEVEL FLOAT SWITCH	SEE SPECIFICATIONS	SEE SPEC
G	FLOOD SWITCH - N.O. REED TYPE FLOAT SWITCH, 20 VA. SEE DWG NO. E11 FOR DETAILS.	OMEGA	LVN-20 (
(H)	CHECK VALVE LIMIT SWITCH	SEE SPECIFICATIONS	SEE SPEC
$\langle \rangle$	POLE-MOUNTED 360 DEGREE PTZ NETWORK SECURITY CAMERA. 1920x1080 RESOLUTION, 30X OPTICAL ZOOM, CONTINUOUS 360 DEGREE PAN, POWER OVER ETHERNET. SEE DWG NO. E10 FOR DETAIL.	AXIS	P5635-
Ŕ	FIBER OPTIC PANEL CONTAINING FIBER OPTIC PATCH PANEL, FIBER MODEM(S), AND DEDICATED MODEM RECEPTACLE(S). PANEL SHALL BE DESIGNED AND CONSTRUCTED IN CONFORMANCE WITH ALL CITY OF LYNNWOOD SPECIFICATIONS.	PER CITY OF LYNNWOOD SPECIFICATIONS	PER C Lynn Specific
	EMERGENCY VEHICLE ACCESS SYSTEM DETECTOR. 24 VDC, 200 FT RANGE, 60 DEGREE FIELD OF VIEW, SPST RELAY OUTPUT.	STROBESWITCH	SSLC-
(M)	ACCESS CARD READER	SEE SPECIFICATIONS	SEE SPEC
-			

PANEL SCHEDULE L								
NO. LOCATION: MOTOR CONTROL CENTER L SERVING: PUMP STATION LOADS			208/120 VOLTS 3¢ 4 WIRE 60 AMP MAIN					
CIRCUIT DESCRIPTION	KVA	AMP			AMP	KVA	CIRCUIT DESCRIPTION	
HELTER LIGHTING	0.24	20	1	<u>+</u> ~ 2	20	1.00	TELEMETRY PANEL, "RTU"	
HELTER RECEPTACLE	0.36	20] 3	- <u>+</u> <u>−</u> <u>−</u> 4	20	1.50	STANDBY GENERATOR BLOCK HEATER	
SITE LIGHTING	0.18	20	5	- -6	20	0.20	STANDBY GENERATOR BATTERY CHARGER	
IYDRAULIC BOLLARD SYSTEM HYDRAULIC PUMP	6.00	30] 7		20	1.00	HYDRAULIC BOLLARD SYSTEM CONTROL PANEL	
-	_	3P	9		20	0.50	HYDRAULIC BOLLARD SYSTEM HEAT TAPE	
-	-	3P] 11 -∽+	12	20	-	SPARE	
PARE	_	20	13	<u>+</u> 14	20	-	SPARE	
PARE	-	20	15		20	-	SPARE	
PARE	_	20] 17	- 18	20	-	SPARE	
PARE	_	20	19	20	20	-	SPARE	
PACE	_	-	21		1	-	SPACE	
PACE	-	-	23	- 24	I	-	SPACE	
PACE	-	-	25	26	1	-	SPACE	
PACE	-	-	27	28	_	-	SPACE	
PACE	_	-	29	- 30	-	-	SPACE	
CONNECTION LOAD:	DEMA	ND: L	GHTING &	RECEPTA	CLE LO	OAD	DEMAND LOAD:	
11.0 KVA 30.6 AMPS							11.0 KVA 30.6 AMPS	

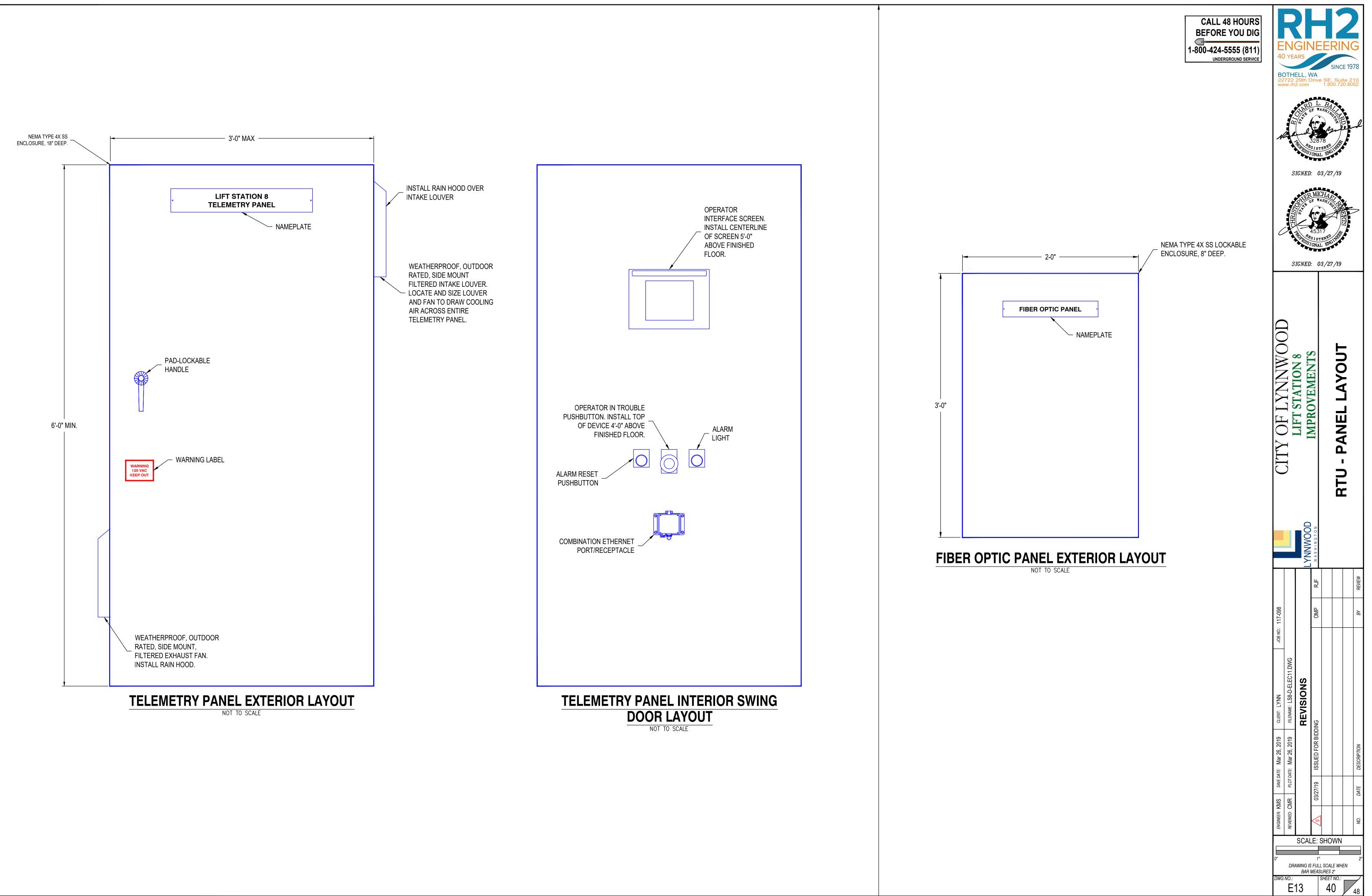
DEL NO.	
OR EQUAL	
ECIFICATIONS	
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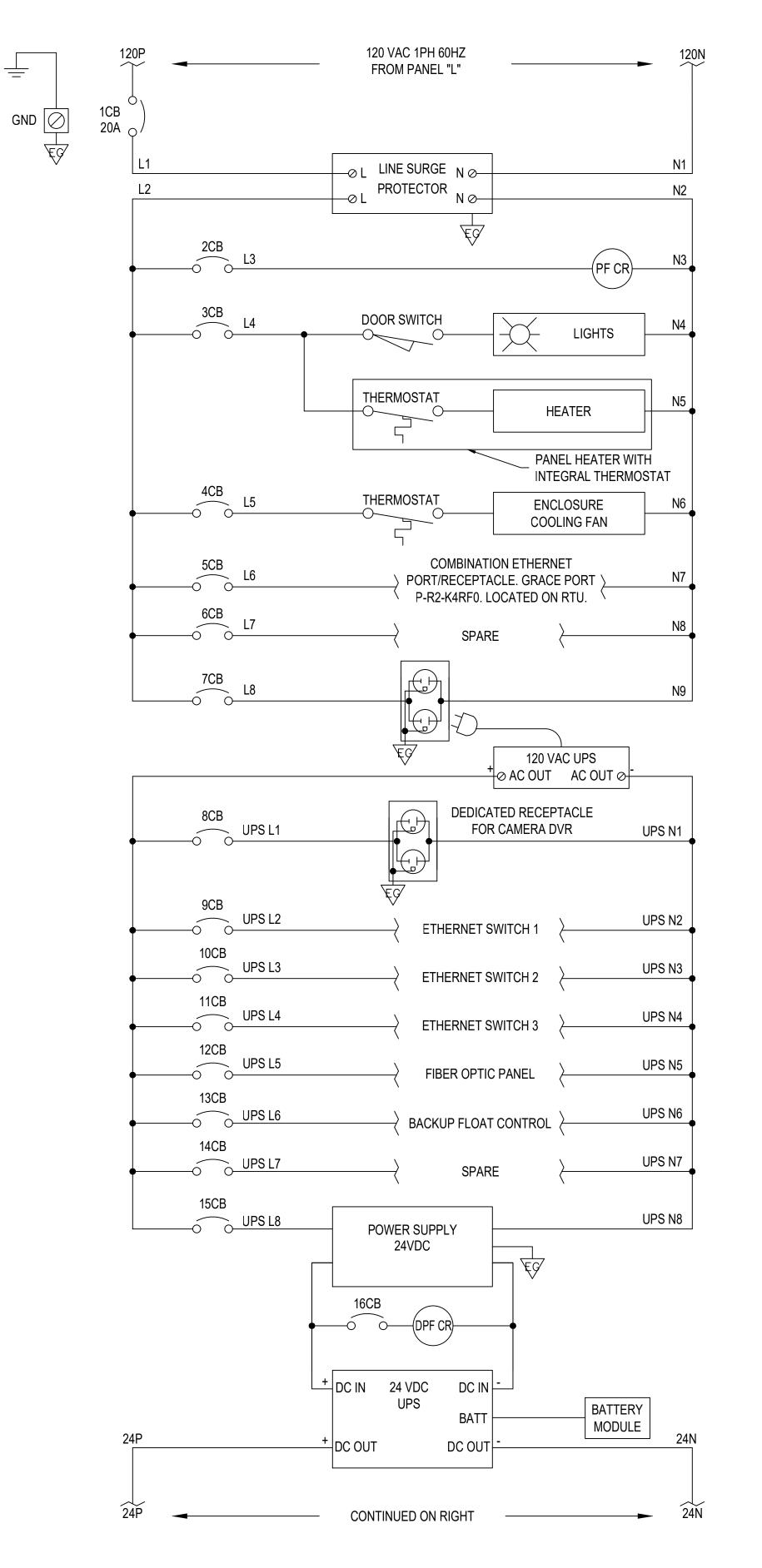
PECIFICATIONS

ENGINEERING 40 YEARS SINCE 1978 BOTHELL, WA 22722 29th Drive SE, Suite 210 www.rh2.com SIGNED: 03/27/19 SIGNED: 03/27/19 WOOD SCHEDULES \mathbf{x} 7 OF LYNNW Lift station 8 improvement ELECTRICAL CITY NWOOD FILENAME: LS8-D-ELEC1 REVISIONS 19 Mar SCALE: SHOWN DRAWING IS FULL SCALE WHEN BAR MEASURES 2" NO.: E12 39 48 DWG NO.:

CALL 48 HOURS

BEFORE YOU DIG 1-800-424-5555 (811) UNDERGROUND SERVICE

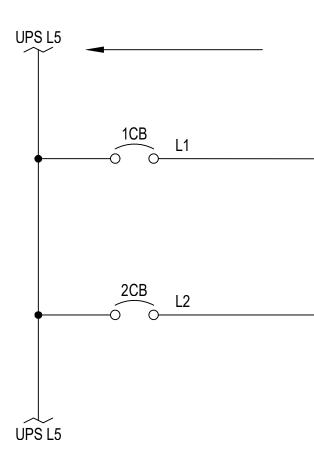


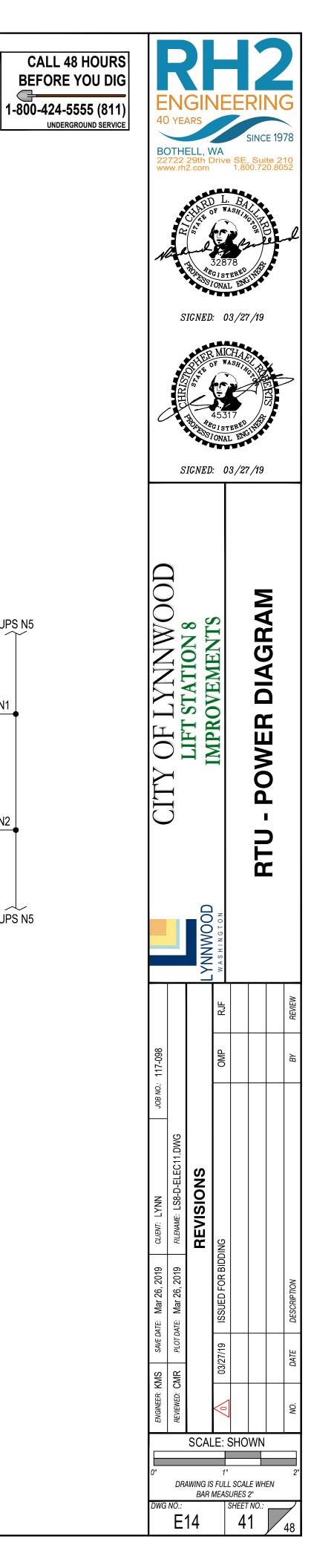


RTU POWER LAYOUT NOT TO SCALE

24P

◀		- CONTINUED FROM LEFT
17CB	24P1	+ DC IN POWER SUPPLY DC IN - + DC OUT 24VDC TO 24VDC DC OUT -
		18CB COMPACTLOGIX POWER SUPPLY 19CB
20CB		
	24P2	
21CB	24P3	
22CB	24P4	
23CB	24P5	ANALOG OUTPUTS
24CB	24P6	FLOW METER TRANSMITTER
25CB	24P7) ULTRASONIC LEVEL TRANSMITTER 1)
26CB	24P8	(INSTALLED INSIDE RTU)
27CB	24P9	
28CB	24P10	SPARE

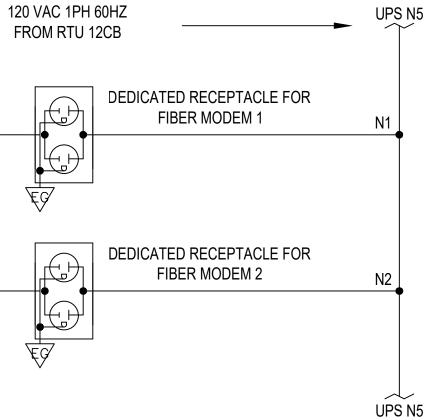




CALL 48 HOURS

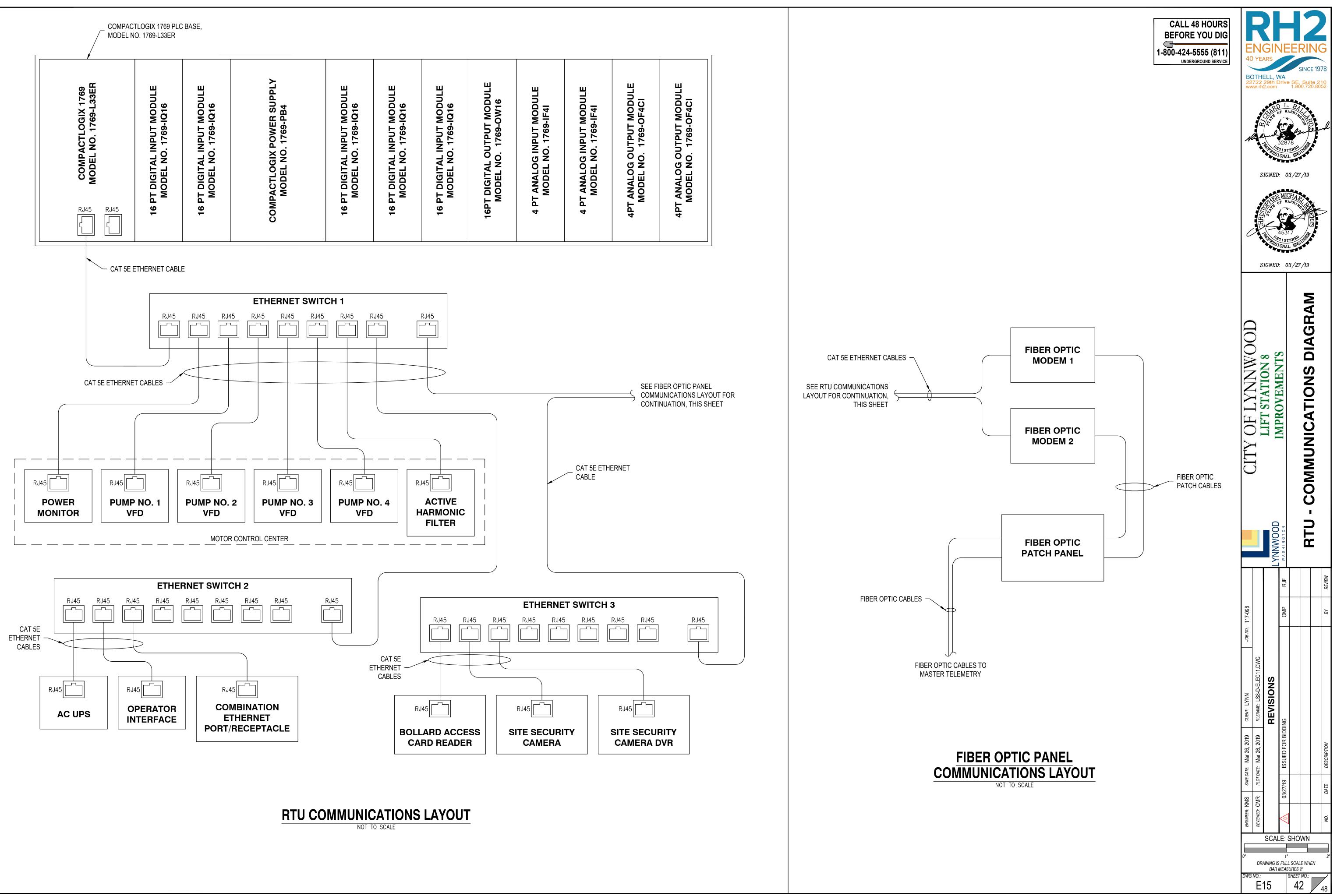
BEFORE YOU DI

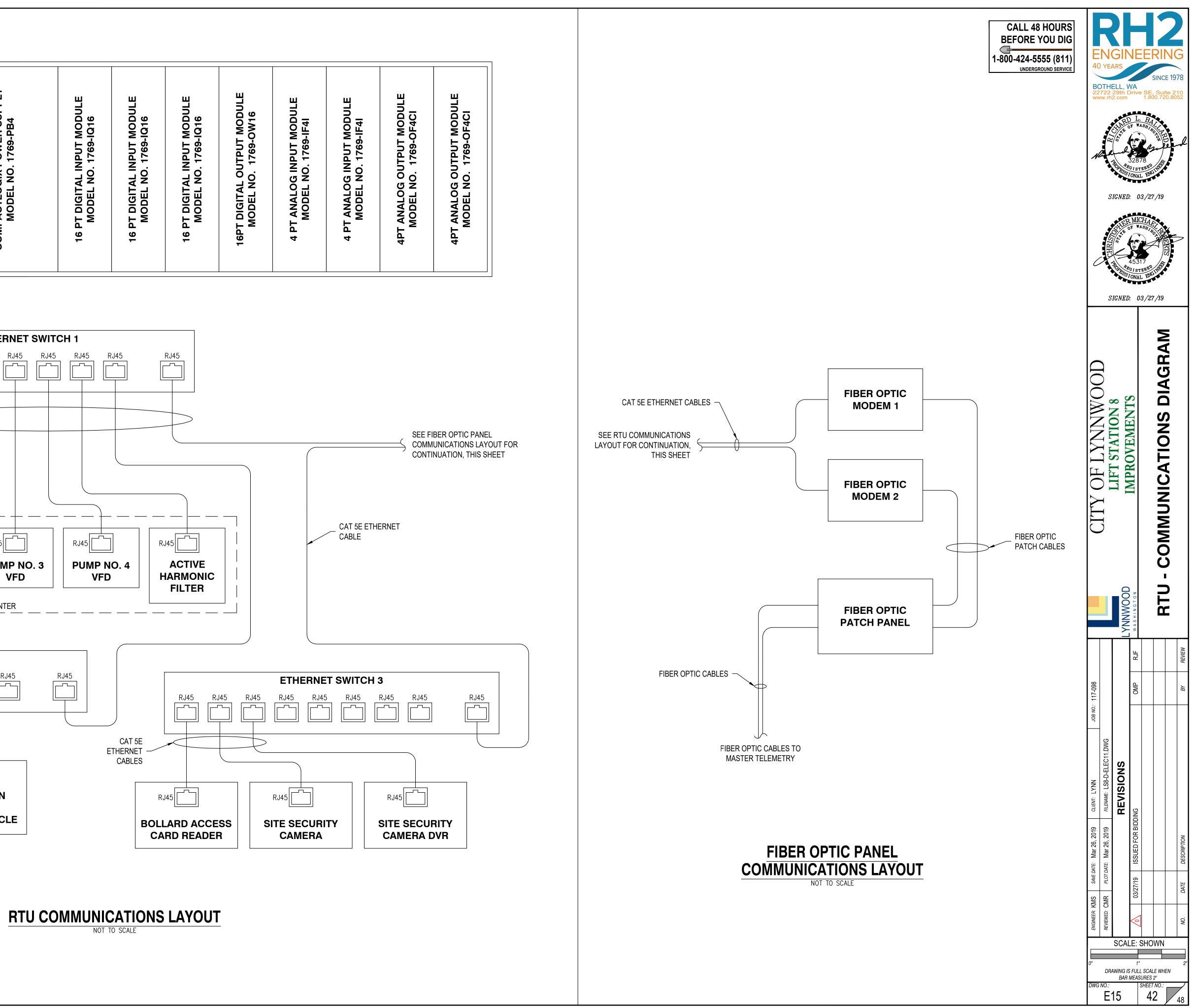
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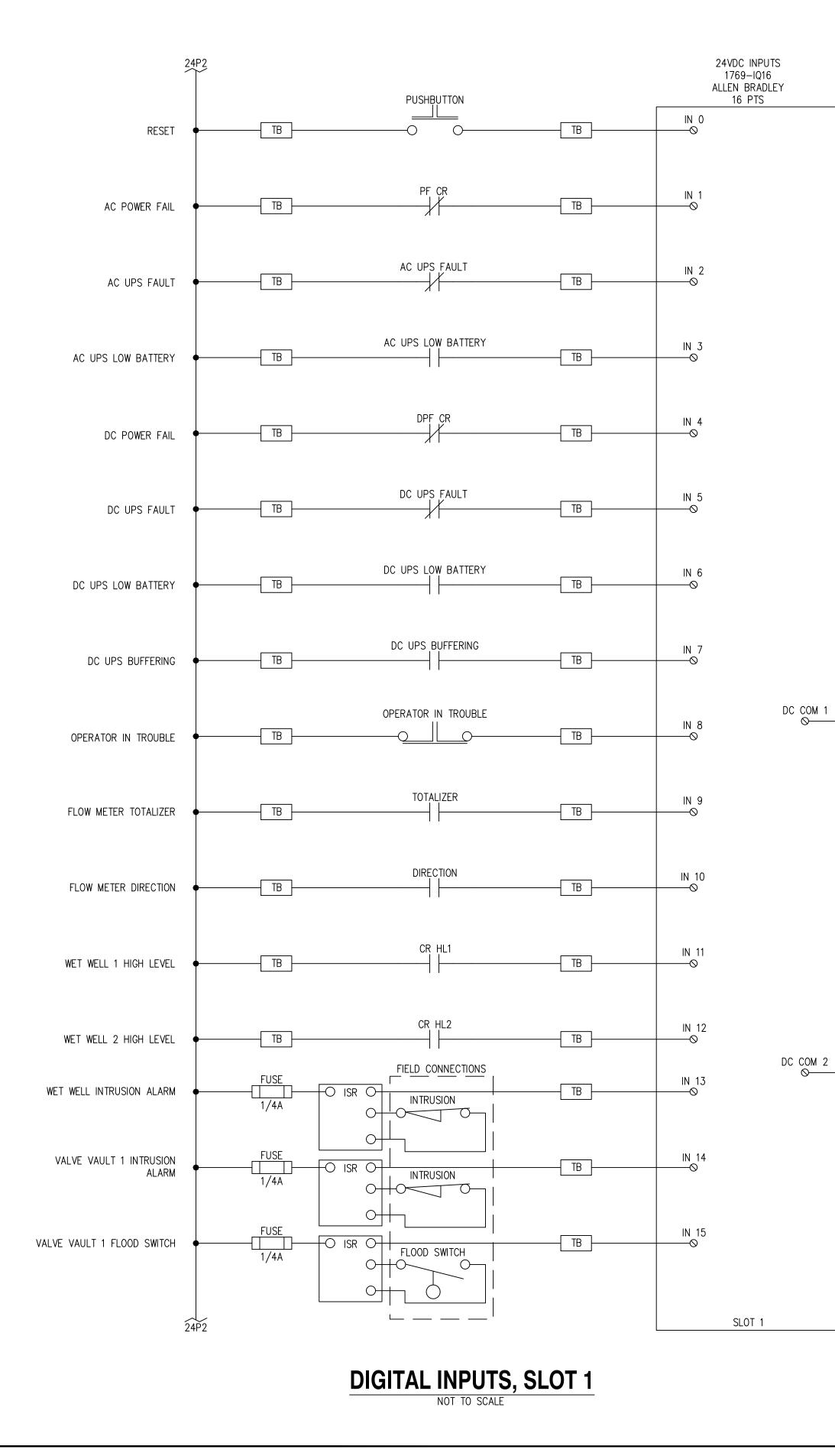


FIBER OPTIC PANEL POWER LAYOUT

NOT TO SCALE

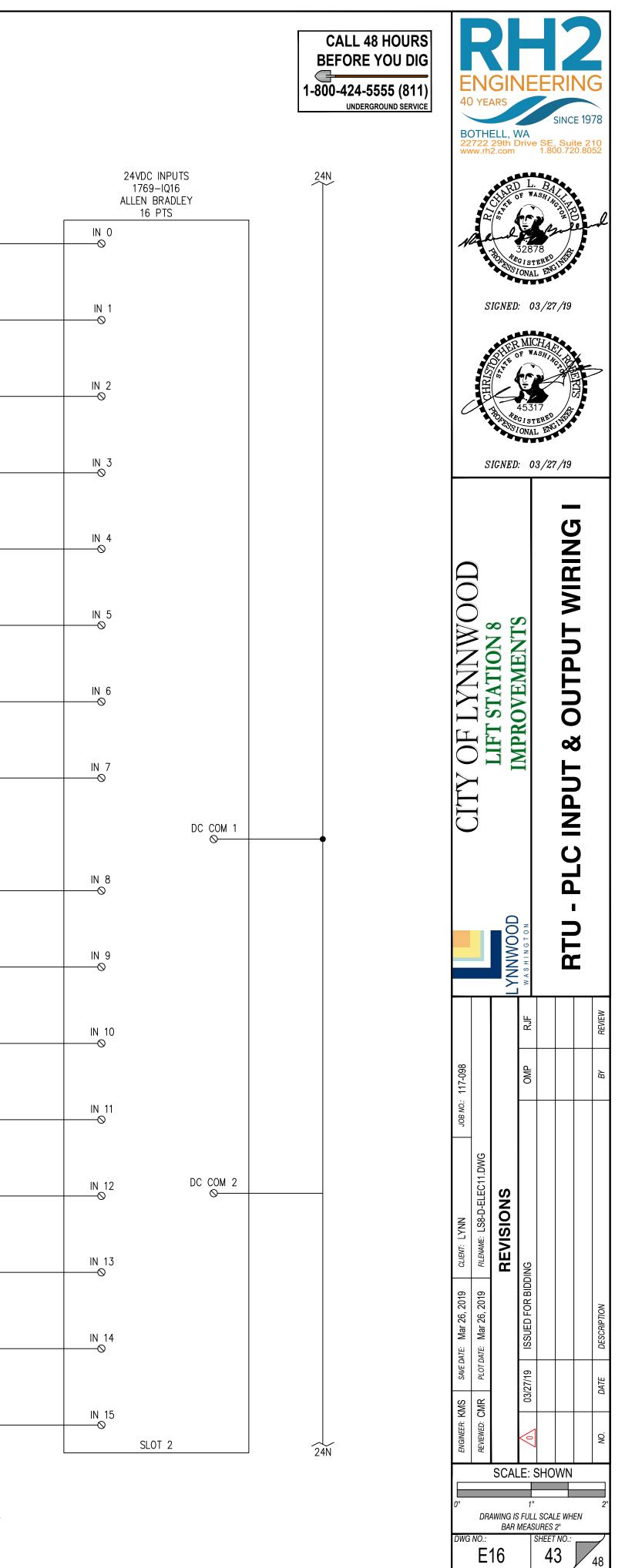


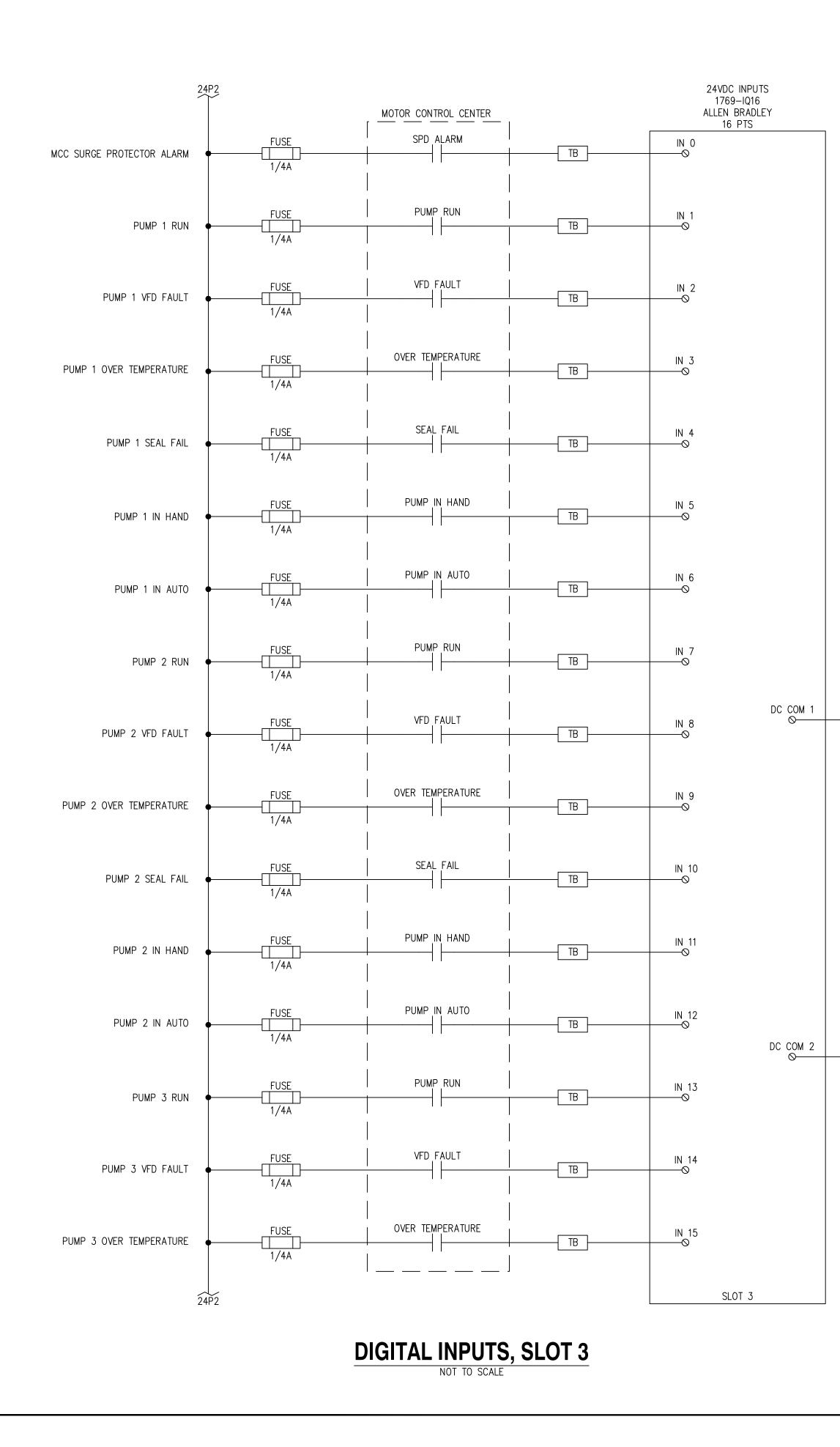




24N	24P2		
	FUSE	FIELD CONNECTIONS	
VALVE VAULT 1 CHECK VALVE LIMIT SWITCH 1			TB
VALVE VAULT 1 CHECK VALVE LIMIT SWITCH 2			TB
VALVE VAULT 2 INTRUSION ALARM			ТВ
	, (
VALVE VAULT 2 FLOOD SWITCH	FUSE FUSE O ISR C 1/4A		TB
VALVE VAULT 2 CHECK VALVE LIMIT SWITCH 3			ТВ
	1/4A (
VALVE VAULT 2 CHECK VALVE LIMIT SWITCH 4			ТВ
	1/4A		
METER VAULT INTRUSION ALARM	FUSE		ТВ]
	1/4A (
METER VAULT FLOOD SWITCH	FUSE		TB
	1/4A		
•			
	FUSE	GENERATOR RUN	TB
GENERATOR RUN	1/4A		
	FUSE	FAIL	TB
GENERATOR FAIL	1/4A		
	FUSE	NOT IN AUTO	ТВ
GENERATOR NOT IN AUTO	1/4A		
	FUSE	TROUBLE	ТВ }
GENERATOR TROUBLE	1/4A		
	FUSE	LOW FUEL	——————————————————————————————————————
GENERATOR LOW FUEL	1/4A		
	FUSE	<u>ATS</u>	
ATS IN EMERGENCY	1/4A		TB
	FUSE	ATS IN UTILITY	
ATS IN UTILITY	1/4A		TB
	FUSE	ATS IN PRETRANSFER	
ATS IN PRETRANSFER	24P2		ТВ

DIGITAL INPUTS, SLOT 2 NOT TO SCALE



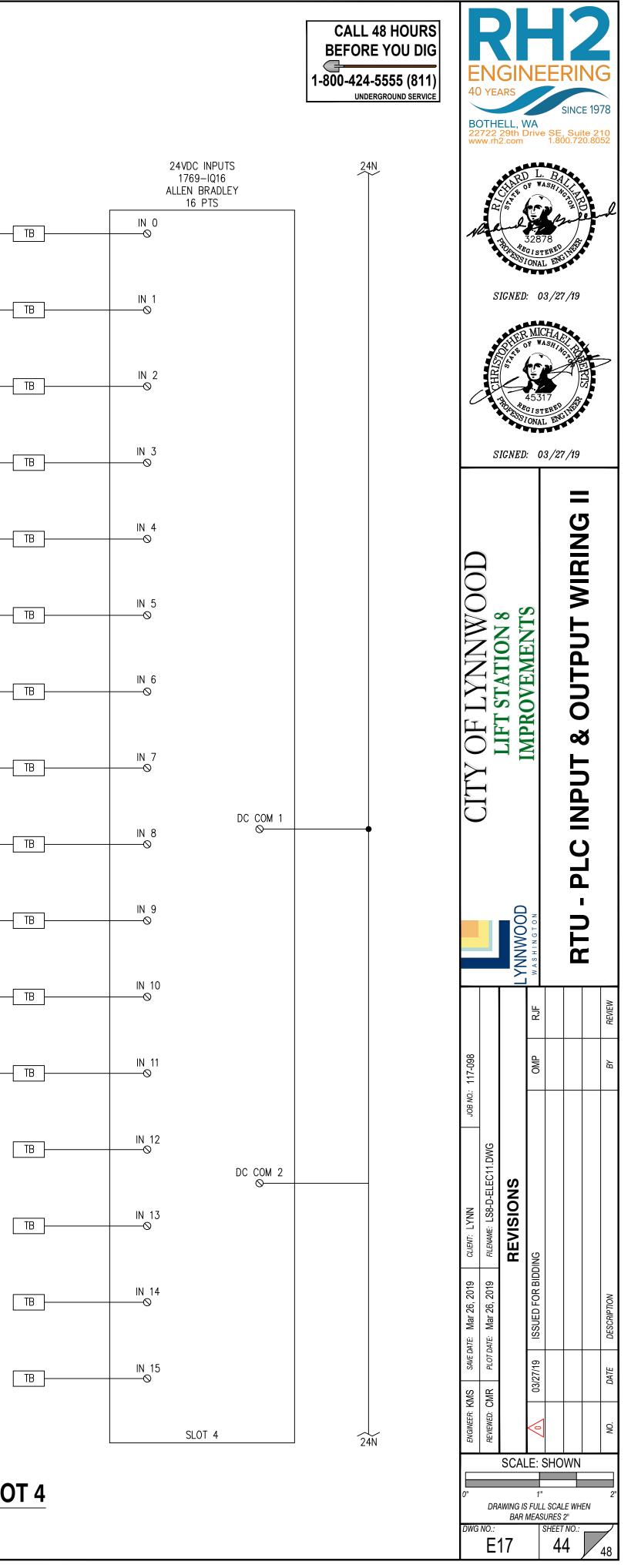


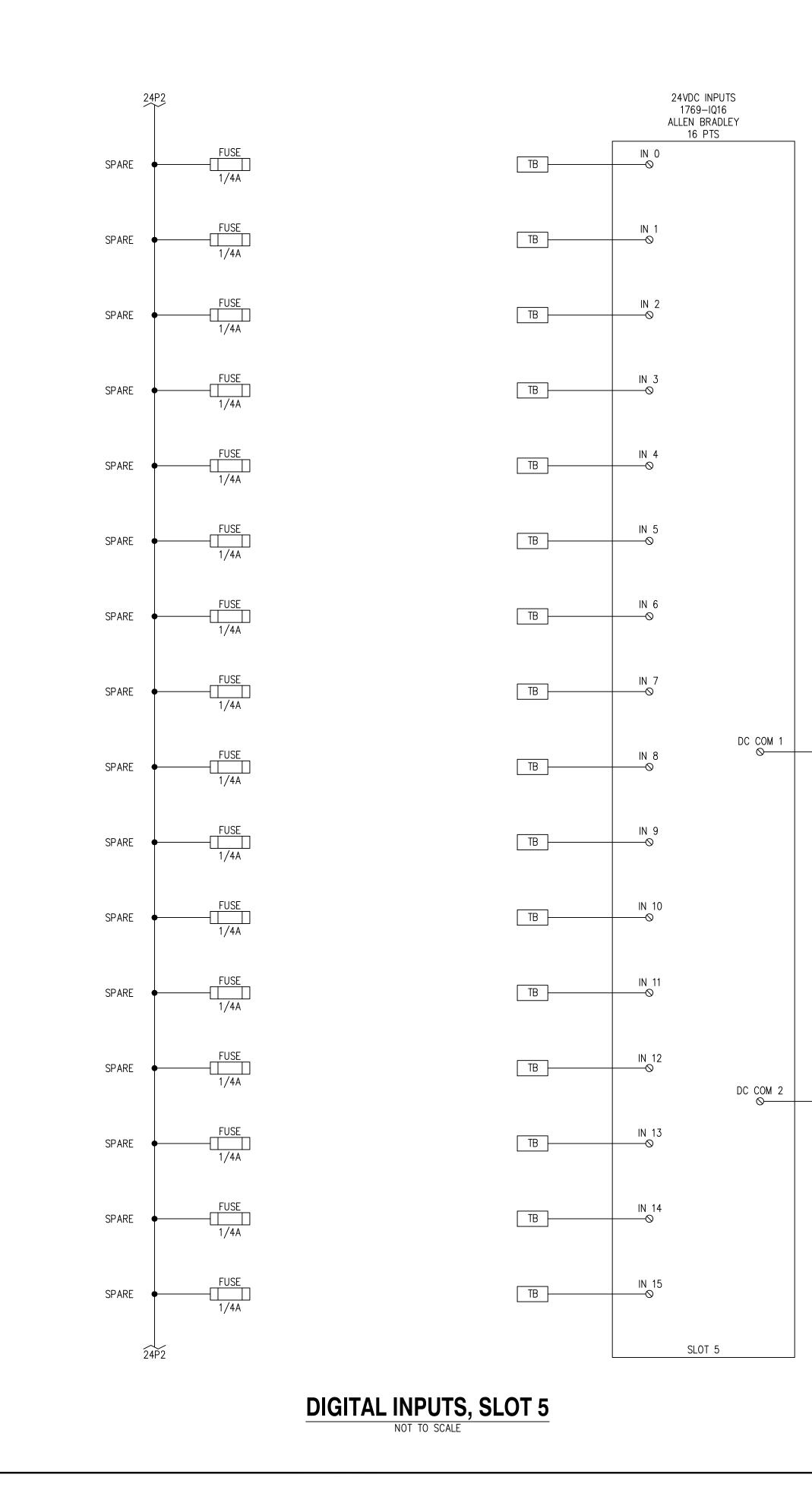
	24P2	MOTOR CONTROL CENTER
PUMP 3 SEAL FAIL	FUSE 1/4A	SEAL FAIL
PUMP 3 IN HAND	FUSE 1/4A	PUMP IN HAND
PUMP 3 IN AUTO	FUSE 1/4A	PUMP IN AUTO
PUMP 4 RUN	FUSE 1/4A	PUMP RUN
PUMP 4 VFD FAULT	FUSE 1/4A	
PUMP 4 OVER TEMPERATURE	FUSE 1/4A	OVER TEMPERATURE
PUMP 4 SEAL FAIL	FUSE 1/4A	
PUMP 4 IN HAND	FUSE 1/4A	PUMP IN HAND
PUMP 4 IN AUTO	FUSE 1/4A	
HYDRAULIC ACCESS BOLLARDS OPEN POSITION	FUSE 1/4A	HYDRAULIC POWER UNIT
HYDRAULIC ACCESS BOLLARDS CLOSED POSITION	FUSE 1/4A	CLOSED
HYDRAULIC ACCESS BOLLARD SYSTEM FAULT	FUSE	 FAULT
SPARE	FUSE 1/4A	۱ <u> </u>
SPARE	FUSE	
SPARE	FUSE 1/4A	
SPARE	FUSE 1/4A	
	24P2	

DIGITAL INPUTS, SLOT 4 NOT TO SCALE

24N

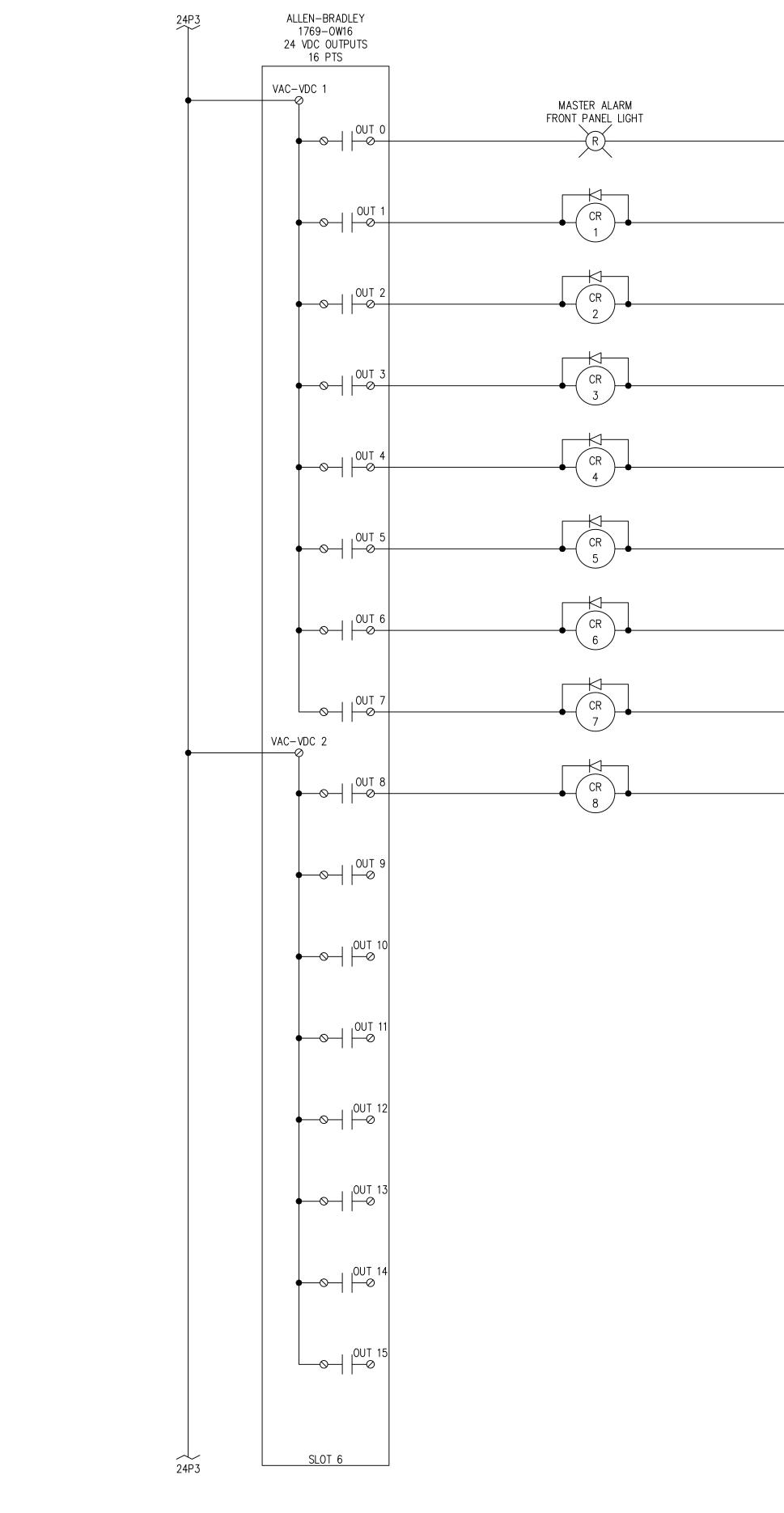
24N





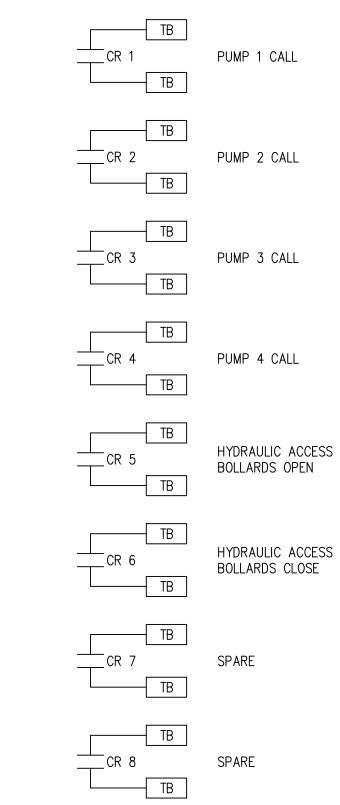
24N

24N



DIGITAL OUTPUTS, SLOT 6 NOT TO SCALE

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24N

PUMP 1 CALL

PUMP 2 CALL

HYDRAULIC ACCESS BOLLARDS OPEN

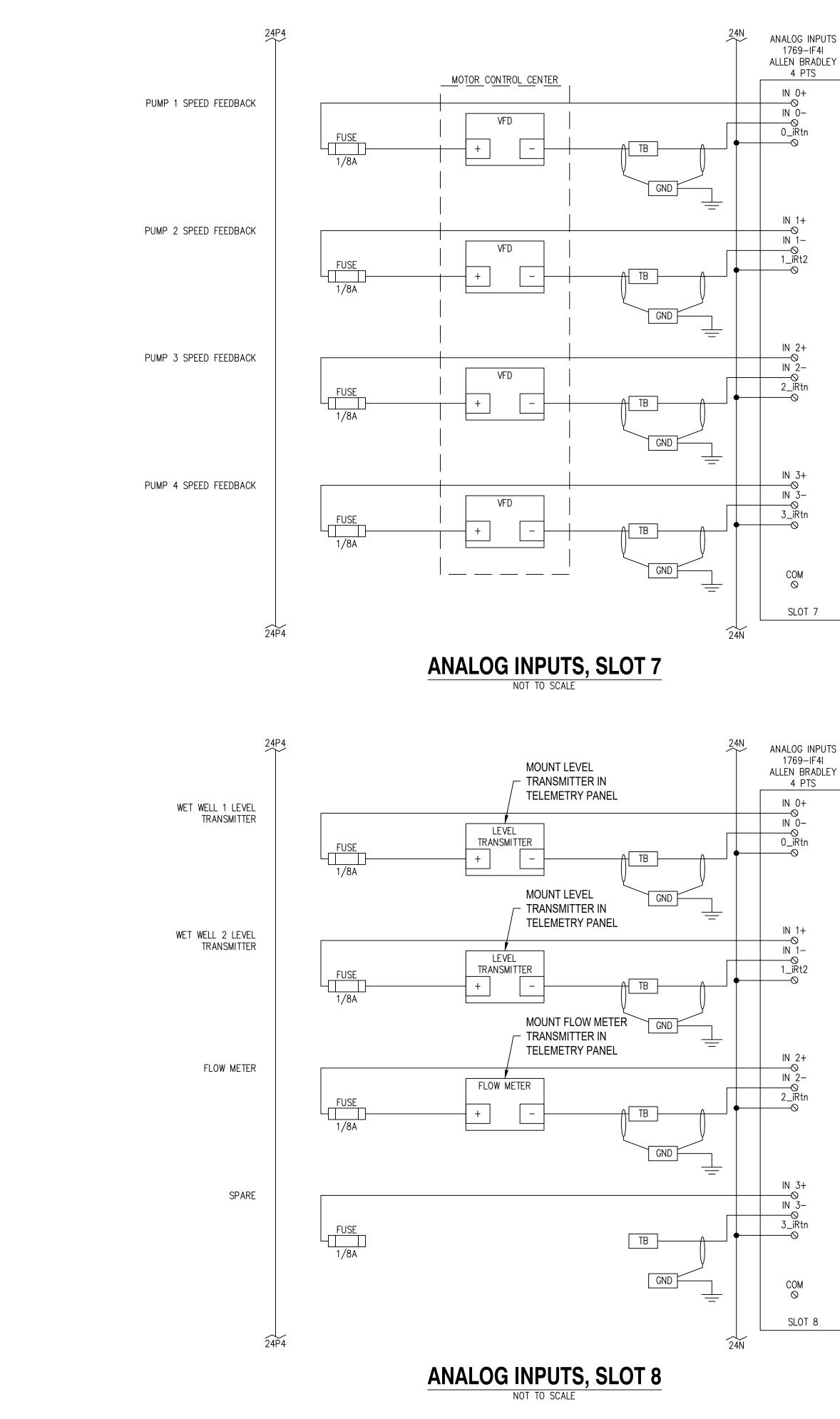
HYDRAULIC ACCESS BOLLARDS CLOSE

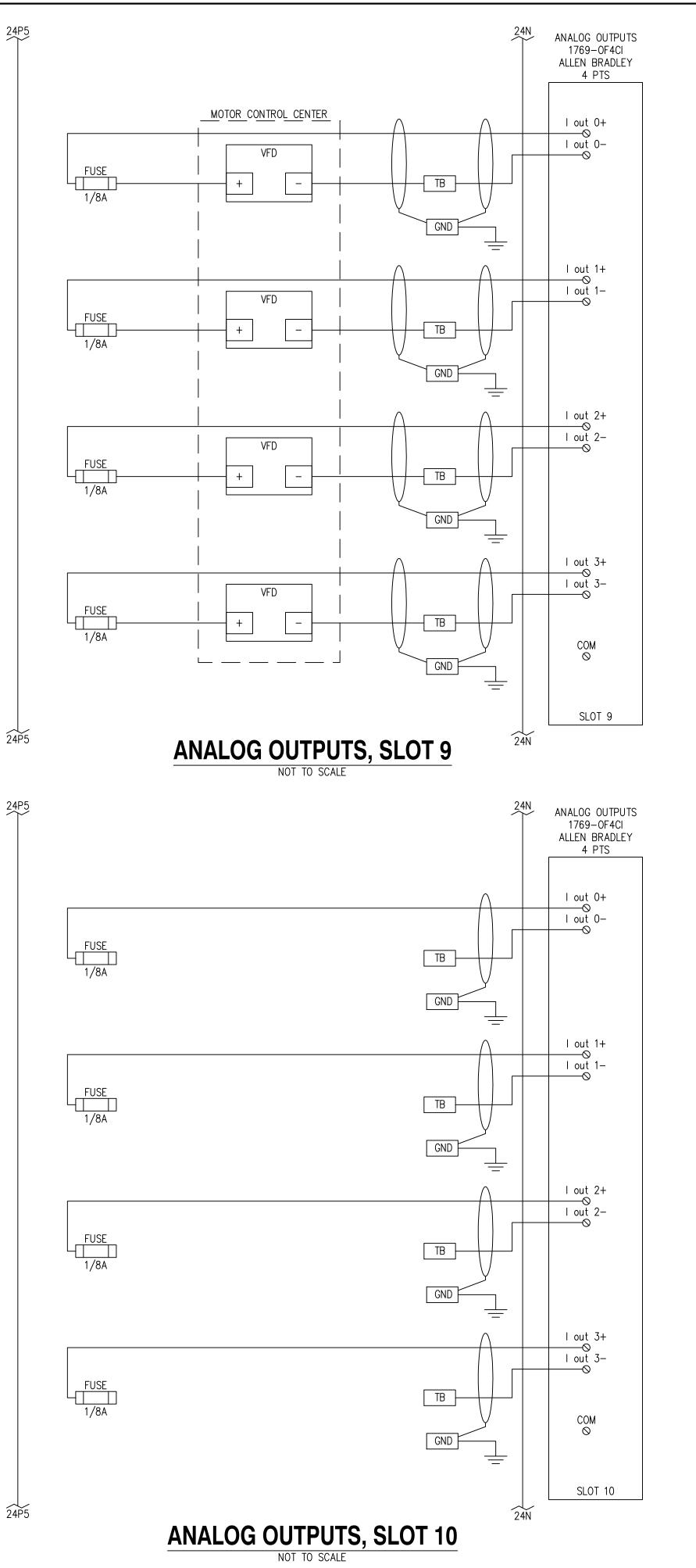
SPARE

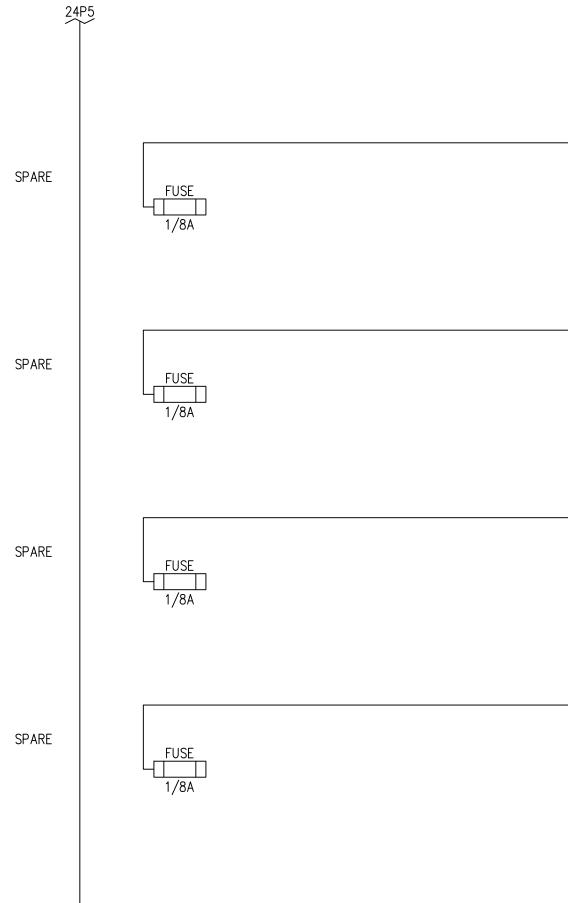
SPARE

SIGNED: 03/27/19 SIGNED: 03/27/19	SIGNED: 03/27/19 SIGNED: 03/27/19					
RTU - PLC INPUT & OUTVNOOD LIFT STATION & LIFT STAT						
	REVIEW					
JOB NO: 117-098	BY					
ENGINEER: KMS SAVE DATE: Mar 26, 2019 CLIENT: LYNN REVIEWED: CMR PLOT DATE: Mar 26, 2019 FILENAME: LS8-D-ELEC11.DWG REVIEMED: CMR PLOT DATE: Mar 26, 2019 FILENAME: LS8-D-ELEC11.DWG Amount O3/27/19 ISSUED FOR BIDDING	NO. DATE DESCRIPTION					
SCALE: SHOWN						
0" 1" DRAWING IS FULL SCALE WHEN BAR MEASURES 2" DWG NO.: SHEET NO.:	2"					









PUMP 3 SPEED COMMAND

PUMP 1 SPEED COMMAND

PUMP 2 SPEED COMMAND

PUMP 4 SPEED COMMAND

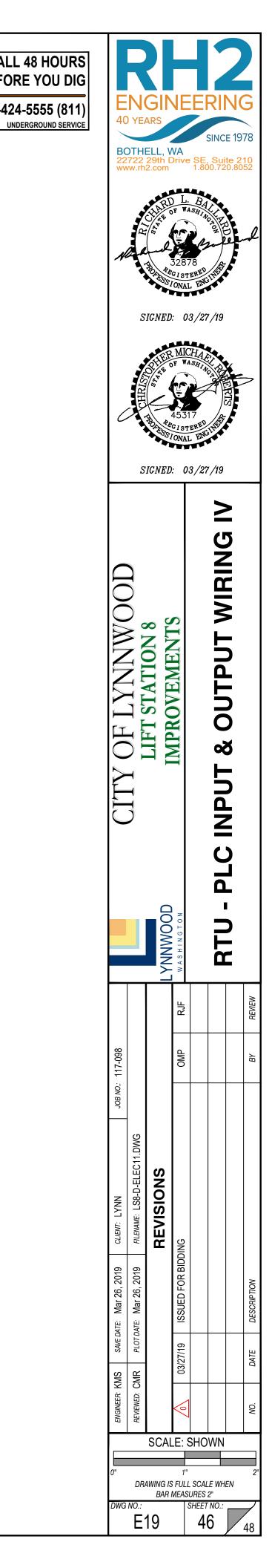
24P5

SPARE

SPARE

SPARE

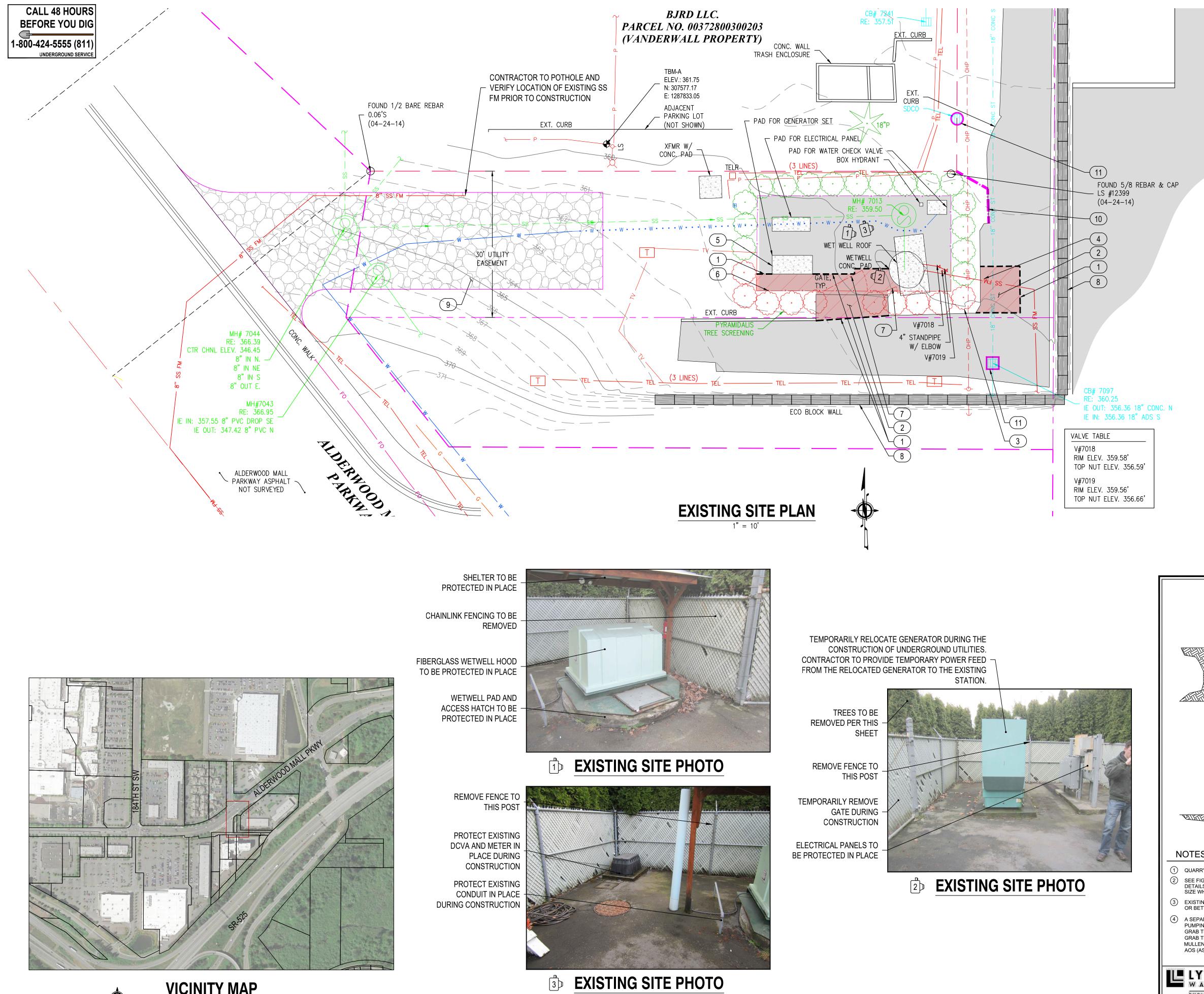
24P5



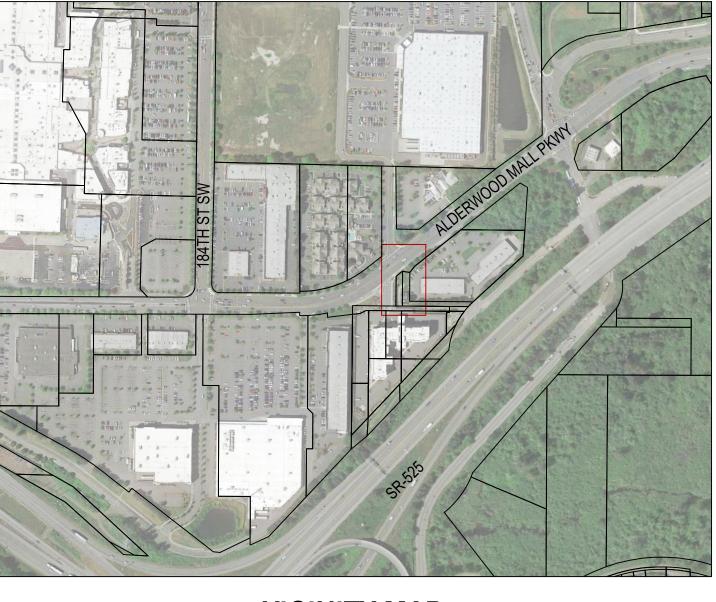
CALL 48 HOURS

BEFORE YOU DIC

1-800-424-5555 (811)



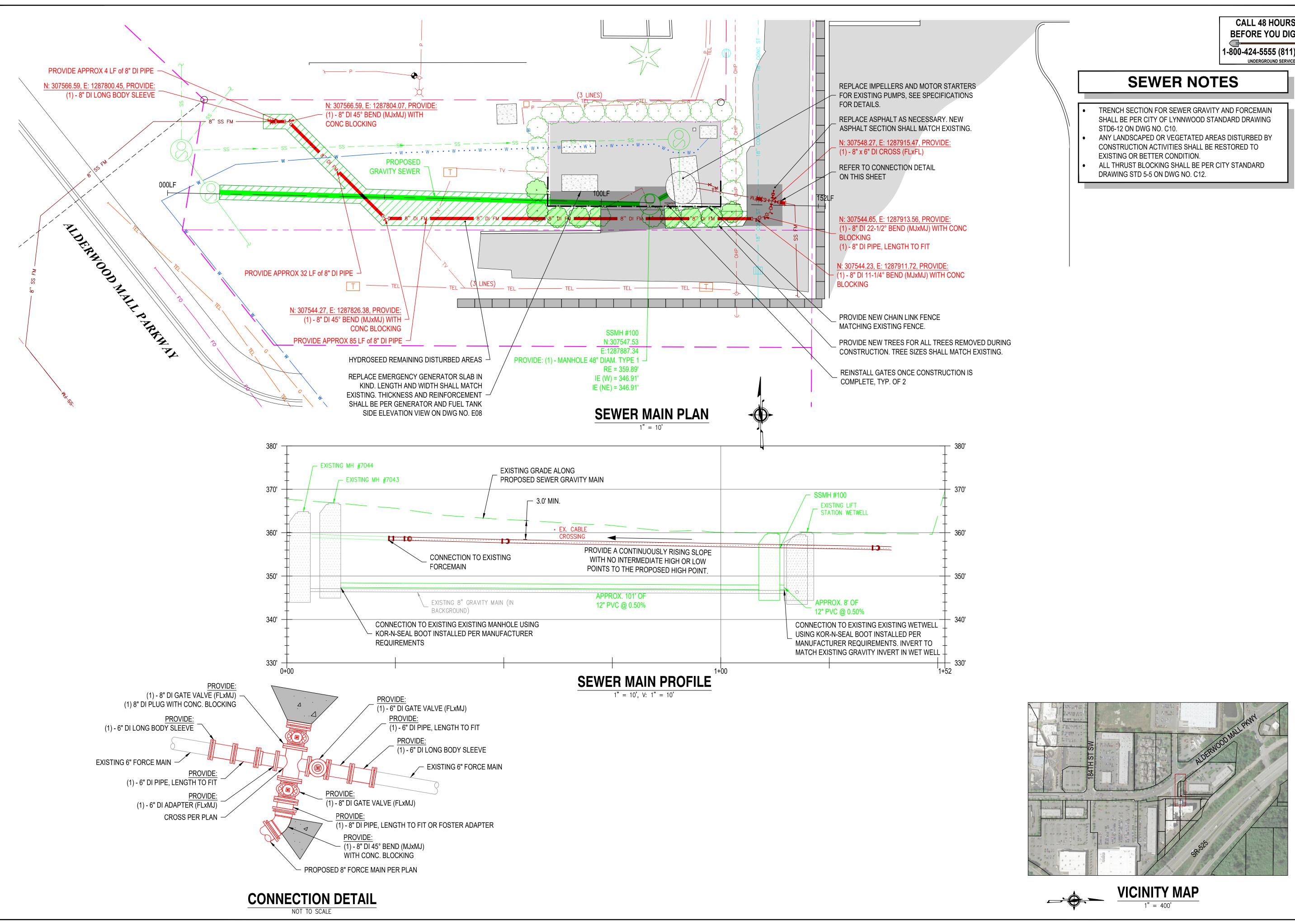






		_					
	DEMOLITION NOTES						2
	 SAWCUT EXISTING ASPHALT. REMOVE APPROX. 249 SF OF ASPHALT TO SUBGRADE. REMOVE AND PROPERLY DISPOSE OF TREE AND ROOT BALL. REMOVE ROOTS AND OTHER ORGANICS AS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS. (TYPICAL ALL TREES IDENTIFIED IN RED). REMOVE EXISTING FORCEMAIN AS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS. 	40 > B0		ARS	VA	SIN	NG CE 1978 uite 210 20.8052
	 (5) REMOVE THE EXISTING EMERGENCY GENERATOR AND CONCRETE PAD TO FACILITATE CONSTRUCTION OF THE PROPOSED GRAVITY MAIN. PROVIDE BACKUP PUMPING SYSTEM FOR ANY/ALL SCENARIOS WHERE IN THE THE EXISTING INFRASTRUCTURE DOES NOT HAVE FULL REDUNDANCY. VACTOR BYPASS OF THE LIFT STATION SHALL BE NECESSARY TO FACILITATE CORING OF THE EXISTING WET WELL AND/OR MAKING CONNECTIONS TO THE EXISTING SYSTEM. (6) REMOVE APPROX. 52 LF OF EXISTING FENCE AS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS. 	12	S	IGNED	J. J	A 27 /19	
	7 TEMPORARILY REMOVE EXISTING GATE.		S	IGNED	: 03	3/27/19)
	 8 DO NOT DISTURB EXISTING WALL. 9 PROVIDE CONSTRUCTION ENTRANCE PER CITY STANDARD DETAIL STD2-9 ON THIS SHEET. 10 PROVIDE SILT FENCE PER CITY STANDARD DETAIL STD2-5 ON DWG NO. C11. 11 PROVIDE INLET PROTECTION PER DETAIL ON DWG NO. C11. 			OVEMEN IS			PLAN
	NOTES					2	7
	 SITE ACCESS SHALL BE LIMITED TO THE EAST ACCESS ROAD AND NOT FROM THE VANDERWALL PROPERTY TO THE NORTH. 	7 OF I VNN					
					5		
+	R/W 100' MIN (SEE NOTE 2)			LYNNW00D	WASHINGTON		
	-3				RJF		REVIEW
	20. MIN						
		<i>.:</i> 117-098			OMP		BV
		JOB NO.:					
	PLAN		V01.DWG				
सामानस्य	1 NIMACI 3 STATESTICA	CLIENT: LYNN	FILENAME: LS4-PH1-D-CIV01.DWG	REVISIONS	NG		
	SECTION	2019	2019		FOR BIDDING		Ž
OTES: QUARRY SPAI		: Mar 26, 2019	Mar 27,		SSUED FO		DESCRIPTION
SEE FIGURE 4 DETAILS. NOT	2.2 IN THE CURRENT ADOPTED STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGT E: THE MINIMUM 100LF OF ENTRANCE SHALL BE REDUCED TO THE MAXIMUM PRACTICABLE HEN SIZE OR CONFIGURATION OF THE SITE DOES NOT ALLOW THE FULL LENGTH (100LF).	SAVE DATE:	PLOT DATE:		/19 1		TE
OR BETTER T	VEWAY RAMP, OR SITE ACCESS ROAD 20' WIDE MIN. MATERIAL MUST BE EQUAL TO HAN SPECIFIED IN NOTE 1. N GEOTEXTILE SHALL BE PLACED UNDER THE SPALLS TO PREVENT FINE SEDIMENT FROM	OMP	RJF		03/27		DAT
PUMPING UP GRAB TENSILI GRAB TENSILI	INTO THE ROCK PAD. THE GEOTEXTILE SHALL MEET THE FOLLOWING STANDARDS: E STRENGTH (ASTM D4751) 200 PSI MIN. E ELONGATION (ASTM D4632) 30% MAX. ST STRENGTH (ASTM D3786-80A) 400 PSI MIN.	ENGINEER:	REVIEWED:		\checkmark		N
AOS (ASTM D4	4751) 20-45 (U.S. STANDARD SIEVE SIZE)			SCAL	E: 5	SHOWN	\
WASH	NWOOD TEMPORARY CONSTRUCTION DRAWING NUMBER STD2-9 SCALE NONE REVISION DATE 03/17	0"	DRA			SCALE W	2 HEN
PUBLIC W	O P K S IVStandard_Plans DEPARTMENT PW	DWG	^{NO.:}			HEET NO. 47	48

ENGINEERING AU YEARS SINCE 1978 SINCE 1978 SINCE 1978 SINCE 1978 SINCE 1978 SIGNED: 03/27/19 SIGNED: 03/27/19						
CITY OF LYNNWOOD LIFT STATION 4 AND 8 IMPROVEMENTS SCHEDULE A: LIFT STATION 4 SCHEDULE A: LIFT STATION 4 LLA EXISTING SITE PLAN						
	T	RJF WASH				REVIEW
JOB NO: 117-098		OMP				BY F
ENGINEER: OMP SAVE DATE: Mar 26, 2019 CLIENT: LYNN REVIEWED: RJF PLOT DATE: Mar 27, 2019 FILENAME: LS4-PH1-D-CIV01.DWG	REVISIONS					NO. DATE DESCRIPTION
	SCAL		SHO	WN		
o" DRA DWG NO.: C1		S FUL	LL SCAL SURES . SHEET	2"	EN	2"



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UNDERGROUND SERVICE

