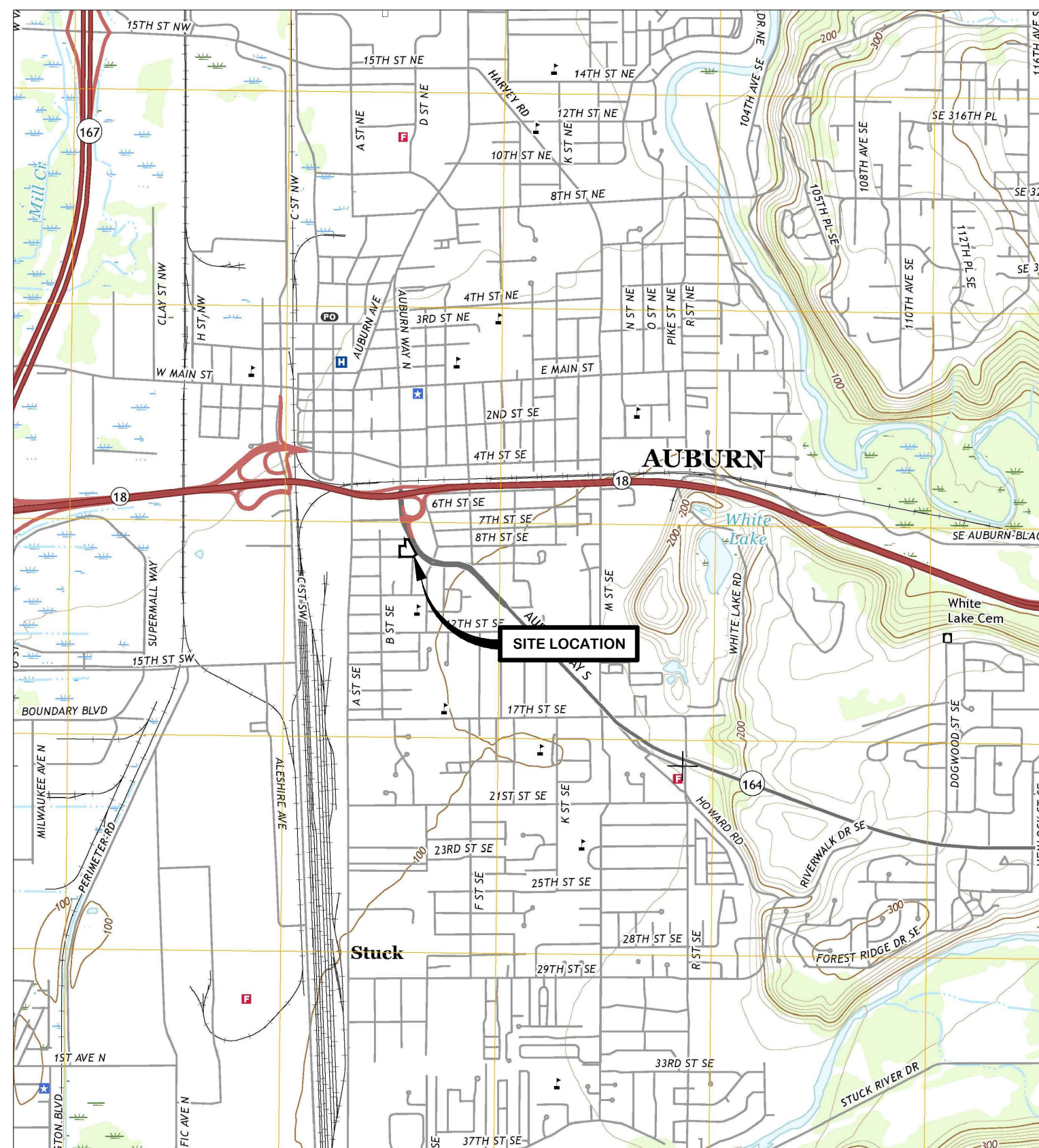


CHS AUBURN FACILITY AIR SPARGE AND SOIL VAPOR EXTRACTION SYSTEM DESIGN SET

238 8TH STREET SOUTHEAST
AUBURN, WASHINGTON

VICINITY MAP



REFERENCE: 7.5 MINUTE USGS QUADRANGLE AUBURN, WASHINGTON, DATED 2017

DIRECTORY

ENVIRONMENTAL CONSULTANT
FARALLON CONSULTING
 975 5TH AVENUE NORTHWEST
 ISSAQUAH, WASHINGTON 98027
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 975 5TH AVENUE NORTHWEST
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 PROJECT ENGINEER: RUSSELL LUITEN, P.E.
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SURVEYOR
NORTH PEAK ASSOCIATES
 18520 23RD DRIVE SOUTHEAST
 KIRKLAND, WASHINGTON 98012
 CONTACT: RICHARD VAN MOURIK
 T: (206) 601-4682
 E: RICHV@NORTHPEAKASSOCIATES.COM

OWNER
EVERED MOTORS, INC.
 9251 SOUTHEAST 46TH STREET
 MERCER ISLAND, WASHINGTON 98040
 CONTACT: TOM EVERED
 T: (206) 232-2743

CONTRACTOR
 TO BE DETERMINED
 SUPERINTENDENT:

DRAWING INDEX

ENVIRONMENTAL

EN0.00	TITLE SHEET, SITE LOCATION MAP, AND DRAWING INDEX
EN0.10	LEGEND, SYMBOLS, AND ABBREVIATIONS
1 OF 2	EXISTING CONDITIONS, SURVEY NOTES
2 OF 2	EXISTING CONDITIONS, SURVEY
EN2.00	SITE PLAN
EN3.00	DETAILS
EN3.10	DETAILS
EN4.00	PROCESS AND INSTRUMENTATION DIAGRAM

ISSUED FOR PERMIT REVIEW	ROL.	SS.	CRP.
REVISION DESCRIPTION	BY	CHK.	APP.
DATE	11.12.18		



PREPARED BY:
FARALLON CONSULTING
 975 5TH AVENUE NORTHWEST
 ISSAQUAH, WA 98027
 (425) 295-0800
 farallonconsulting.com

PREPARED FOR:
 CHS, INC.
 763 WILLOUGHBY LANE
 STEVENSVILLE, MONTANA 59870

TITLE SHEET, SITE LOCATION MAP, AND DRAWING INDEX
 CHS AUBURN SITE
 AUBURN, WASHINGTON
 APN: 03141600800, 3141600810, & 0855000035

811
 Know what's below.
 Call before you dig.
 PROJECT LOCATION (S,T,R):
 PORTIONS OF THE NW1/4 OF
 SEC. 019 TWP. 021N. R10E. U6E. W.M.
 JURISDICTION FILE NO.:
 FARALLON PROJECT NO.:
 301-004
 SHEET
 1 OF 8

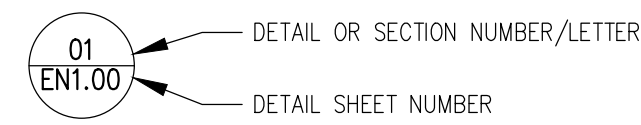
EN0.00

PROJECT REF: _____
 THESE PLANS ARE APPROVED FOR
 CONFORMANCE WITH THE CITY OF AUBURN'S
 ENGINEERING REQUIREMENTS.
 DEV. REVIEW ENGINEER: _____
 APPROVED BY: _____
 DATE APPROVED: _____

ELECTRICAL ABBREVIATIONS

Table with 2 columns: Abbreviation and Description. Includes items like A/AMP (AMP), AC (ALTERNATING CURRENT), BD (BUS DUCT), etc.

STANDARD SYMBOLS



STANDARD ABBREVIATIONS

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes items like AF (AIR FILTER), AB (AGGREGATE BASE), AC (ASPHALTIC CONCRETE), etc.

LEGEND

GENERAL NOTES

- 1. READ ALL NOTES AND REVIEW ENTIRE PLAN SET PRIOR TO COMMENCEMENT OF WORK ACTIVITIES.
2. ESTABLISH EXACT PROJECT BOUNDARIES PRIOR TO COMMENCEMENT OF WORK, AND RECONFIRM BOUNDARY LINES...
3. VERIFY SITE CONTROL POINTS PROVIDED ON PLANS. VERIFY DIMENSIONS AND ORIENTATION PRIOR TO STAKING OF SITE POINTS.
...
19. UPON COMPLETION OF SITE WORK, CLEAN ALL SITE SURFACES (PAVEMENTS, CURBS, STAIRS, WALKS, ETC.).

PIPING, ELECTRICAL AND EQUIPMENT SYMBOLS



INSTRUMENTATION ABBREVIATIONS AND SYMBOLS

INSTRUMENT LEGEND

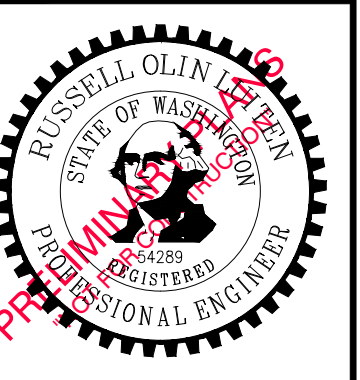
Table with 2 columns: FIRST LETTER INITIATING VARIABLE, SUCCEEDING LETTERS OUTPUT FUNCTIONS.

Table with 3 columns: FIRST LETTER INITIATING VARIABLE, SUCCEEDING LETTERS OUTPUT FUNCTIONS, DESCRIPTION. Includes A (ANALYSIS), B (BURNER), C (CONDUCTIVITY), etc.

INSTRUMENT SYMBOLS

Table with 2 columns: SYMBOL, DESCRIPTION. Includes M (MOTOR), HOA (HAND-OFF-AUTO SELECTOR SWITCH), locally mounted instrument, INTERLOCK, PLC SHUTDOWN ALARM.

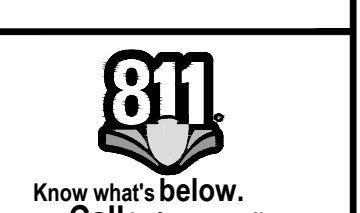
PROJECT REF:
THESE PLANS ARE APPROVED FOR CONFORMANCE WITH THE CITY OF AUBURN'S ENGINEERING REQUIREMENTS.
DEV. REVIEW ENGINEER:
APPROVED BY:
DATE APPROVED:



PREPARED BY: FARALLON CONSULTING
975 5TH AVENUE NORTHWEST
ISSASQUAH, WA 98027
(253) 295-0800
farallonconsulting.com

PREPARED FOR: CHS, INC.
763 WILLOUGHBY LANE
STEVENSVILLE, MONTANA 59870

PROCESS AND INSTRUMENTATION DIAGRAM
CHS AUBURN SITE
AUBURN, WASHINGTON
APN: 03141600800, 3141600810, & 0855000035



PROJECT LOCATION (S,T,R): PORTIONS OF THE N1/4 OF SEC. 019 TWP. 021N. R10E. 05E. W.M.
JURISDICTION FILE NO.:
FARALLON PROJECT NO.: 301-004
SHEET 2 OF 7
EN.10

Table with 4 columns: ROL, SS, CND, APP. Includes ISSUED FOR PERMIT REVIEW, REVISION/DESCRIPTION, DATE 11.12.18.

SITE NOTES

ADDRESS:
707 & 709 AUBURN WAY SOUTH
AUBURN, WA 98002

PARCEL NOS.:
083500-0035, 314160-0810 AND 314160-0800.

ZONING AGENCY:
CITY OF AUBURN
25 W MAIN STREET
AUBURN, WA 98001
(253) 931-3000

ZONING:
C3 HEAVY COMMERCIAL DISTRICT

FLOOD ZONE:
THIS SITE APPEARS ON NATIONAL FLOOD INSURANCE RATE MAP, DATED MAY 16, 1995, COMMUNITY PANEL NO. 53033C1261F, AND IS SITUATED IN ZONE "X", AREA DETERMINED TO BE OUTSIDE OF THE 500-YEAR FLOODPLAIN.

HORIZONTAL DATUM:
CITY OF AUBURN - NAD 83/91

BASIS OF BEARINGS:
N89°54'37"W BETWEEN THE NORTHWEST CORNER AND THE NORTH QUARTER CORNER OF SECTION 19-21N-5E.

VERTICAL DATUM:
NAVD88

VERTICAL BENCHMARK:
CITY OF AUBURN BENCHMARK: 809-004
4"x4" CONCRETE MONUMENT IN ALLEY BETWEEN 7TH AND 8TH STREET SE
ELEVATION = 93.40'

AREA:
PARCEL A:
SITE AREA AS SHOWN CONTAINS 9,111 SQUARE FEET OR 0.2092 ACRES, MORE OR LESS.

PARCEL B:
SITE AREA AS SHOWN CONTAINS 13,201 SQUARE FEET OR 0.3031 ACRES, MORE OR LESS.

PARCEL C:
SITE AREA AS SHOWN CONTAINS 5,998 SQUARE FEET OR 0.1377 ACRES, MORE OR LESS.

TOTAL:
SITE AREA AS SHOWN CONTAINS 28,310 SQUARE FEET OR 0.6500 ACRES, MORE OR LESS.

SUBSTRUCTURES:
BURIED UTILITIES ARE SHOWN AS INDICATED ON RECORDS MAPS FURNISHED BY OTHERS AND VERIFIED WHERE POSSIBLE BY FEATURES LOCATED IN THE FIELD. WE ASSUME NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS. FOR THE FINAL LOCATION OF EXISTING UTILITIES CRITICAL TO DESIGN, CONTACT THE UTILITY OWNER/AGENCY.

TELECOMMUNICATIONS/FIBER OPTIC DISCLAIMER:
RECORDS OF UNDERGROUND TELECOMMUNICATIONS AND/OR FIBER LINES ARE NOT ALWAYS AVAILABLE TO THE PUBLIC. NORTH PEAK ASSOCIATES LLC HAS NOT CONTACTED EACH OF THE MANY COMPANIES IN THE COURSE OF THIS SURVEY WHICH MAY HAVE UNDERGROUND LINES WITHIN THE ADJACENT RIGHTS-OF-WAY. NORTH PEAK ASSOCIATES LLC, DOES NOT ACCEPT RESPONSIBILITY FOR THE EXISTENCE OF UNDERGROUND TELECOMMUNICATIONS/FIBER OPTIC LINES WHICH ARE NOT MADE PUBLIC RECORD WITH THE LOCAL JURISDICTION.

LEGAL DESCRIPTION:

PARCEL A:
LOT 1, BLOCK 2, BITZER'S ADDITION TO THE CITY OF AUBURN, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 45 OF PLATS, PAGE 10, IN KING COUNTY, WASHINGTON;
TOGETHER WITH A PORTION DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE CENTER LINE OF "C" STREET SOUTHEAST IN THE CITY OF AUBURN (STATE ROAD NO. 5) AND THE SOUTH LINE OF SECTION 18, TOWNSHIP 21 NORTH, RANGE 5 EAST, WILLAMETTE MERIDIAN, SAID LINE BEING THE NORTH LINE OF THE ALLEY LYING BETWEEN 7TH AND 8TH STREET SOUTHEAST;
THENCE SOUTH 89°23'19" WEST 55.86 FEET ALONG SAID SECTION LINE TO THE WESTERLY LINE OF "C" STREET SOUTHEAST AND THE TRUE POINT OF BEGINNING;
THENCE CONTINUING SOUTH 89°23'19" WEST 62.20 FEET;
THENCE NORTH 00°36'41" WEST 124.80 FEET TO THE WESTERLY BOUNDARY OF "C" STREET SOUTHEAST;
THENCE SOUTH 27°06'11" EAST 139.44 FEET ALONG THE WESTERLY BOUNDARY OF "C" STREET SOUTHEAST TO THE TRUE POINT OF BEGINNING;
EXCEPT THAT PORTION LYING WITHIN RIGHT OF WAY FOR 7TH STREET SOUTHEAST.

PARCEL B:
LOTS 13, 14 AND 15 IN BLOCK 8 OF HARTS FIRST ADDITION TO THE TOWN OF AUBURN, AS PER PLAT RECORDED IN VOLUME 29 OF PLATS, PAGE 23, RECORDS OF KING COUNTY.

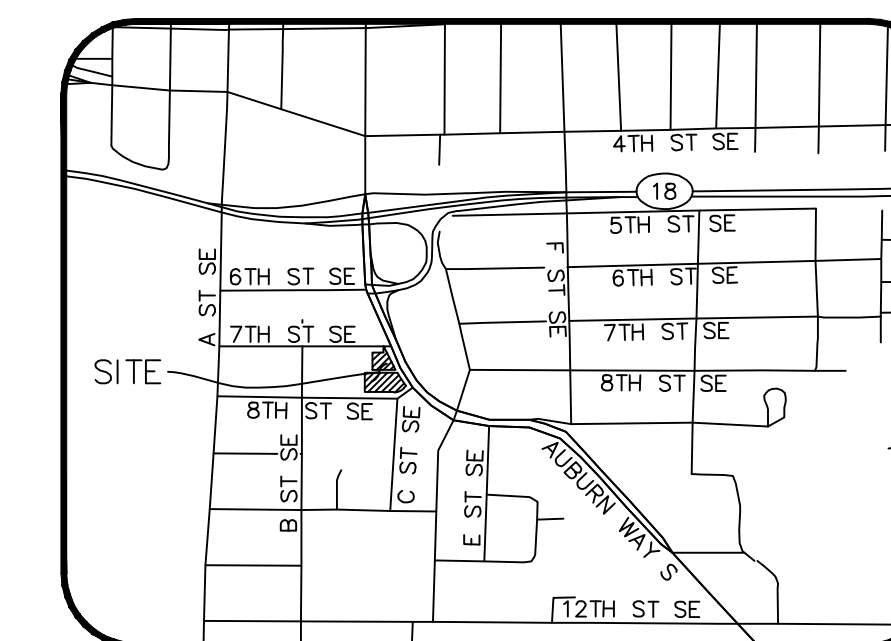
TOGETHER WITH PORTION OF "C" STREET S.E. ADJOINING, AS VACATED UNDER CITY OF AUBURN ORDINANCE NO. 2600 AND ORDINANCE NO. 2658 UNDER RECORDING NOS. 7301120386 AND 7301120392 WHICH, UPON VACATION, ATTACHES TO SAID PROPERTY BY OPERATION OF LAW;

SITUATE IN CITY OF AUBURN, COUNTY OF KING, STATE OF WASHINGTON.

PARCEL C:
LOTS 11 AND 12 IN BLOCK 8 OF HARTS FIRST ADDITION TO THE TOWN OF AUBURN, AS PER PLAT RECORDED IN VOLUME 29 OF PLATS, PAGE 23, RECORDS OF KING COUNTY.

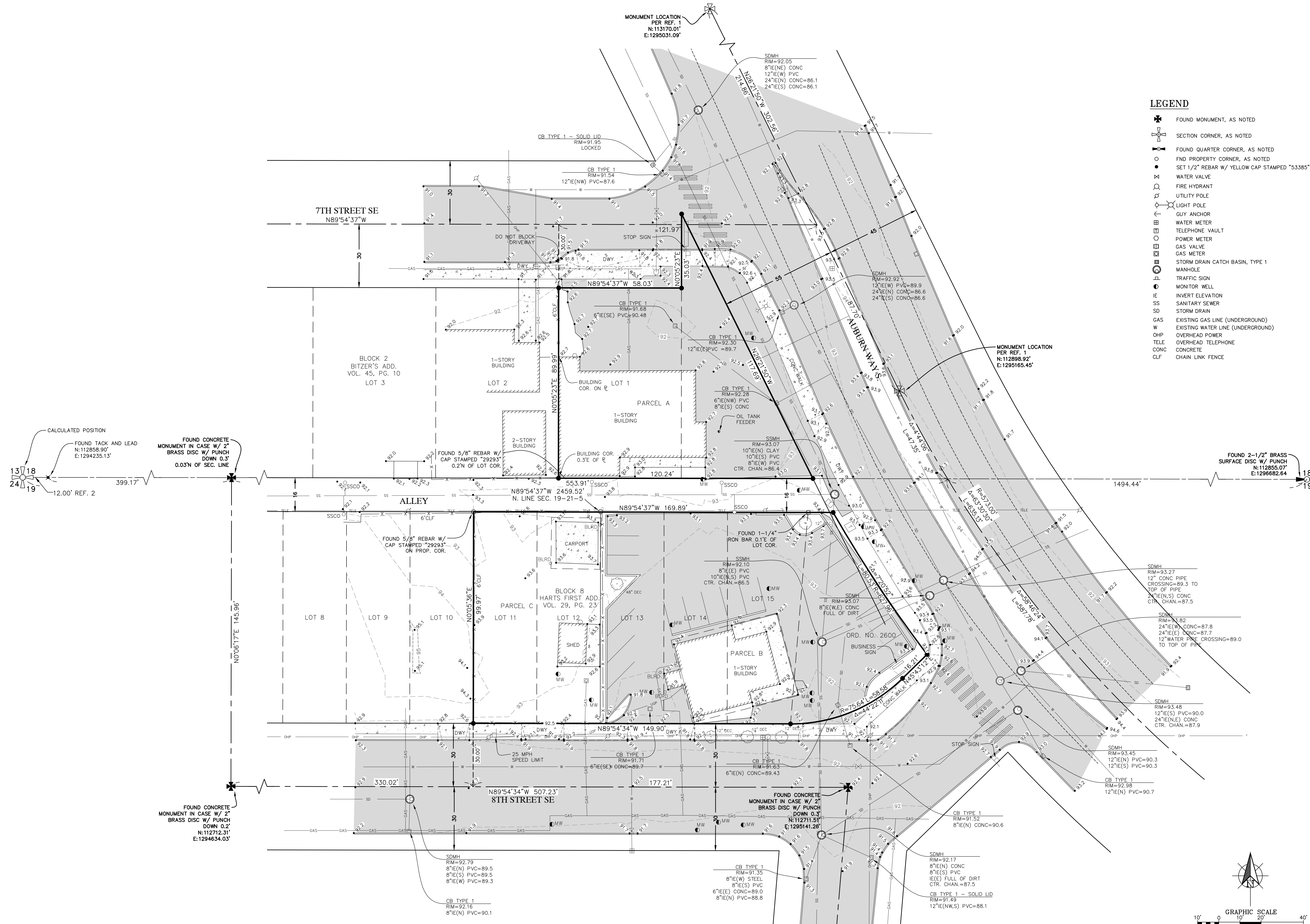
- REFERENCES:**
1. SR 164 CONSTRUCTION MONUMENT EXHIBIT MAP, ON FILE UNDER DRAWER 500, SEQUENCE 54, WASHINGTON STATE DEPARTMENT OF TRANSPORTATION.
 2. RECORD OF SURVEY PERFORMED WARREN T. LAY, P.L.S., RECORDED UNDER KING COUNTY RECORDING NO. 8912139005.

- GENERAL NOTES:**
1. PRECISION OF CONTROL TRAVERSE IS AT HIGHER LEVEL THAN MINIMUM STANDARDS REQUIRED BY WAC 332-130-090.
 2. FIELD SURVEY CONDUCTED USING A COMBINATION OF GPS USING THE WASHINGTON STATE REFERENCE NETWORK (WSRN) AND/OR A 5 SECOND DIRECT READING TOTAL STATION. METHOD: GPS, TRAVERSE AND RADIAL SURVEY.
 3. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND DOES NOT PURPORT TO SHOW ALL ENCUMBRANCES OR EASEMENTS THAT MAY BURDEN THE SUBJECT PROPERTY.
 4. ALL DISTANCES ARE IN FEET.
 5. THIS SURVEY REPRESENTS VISIBLE PHYSICAL IMPROVEMENT CONDITIONS EXISTING ON SEPTEMBER 24, 2018. ALL SURVEY CONTROL INDICATED AS "FOUND" WAS RECOVERED FOR THIS PROJECT IN SEPTEMBER OF 2018.

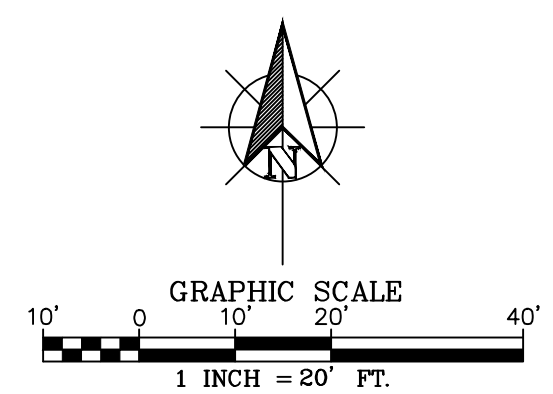


VICINITY MAP
NOT TO SCALE

No.											
Revisions											
Date	11/09/18	Scale	N/A	Drawn	SB	Designed		Checked	RJM		
<p>NORTH PEAK ASSOCIATES LLC PROFESSIONAL LAND SURVEYORS 10512 NE 140TH STREET KIRKLAND, WA 98034 Phone (206) 601-4662 File path & Name</p>											
<p>AUBURN WAY BOUNDARY & TOPOGRAPHIC SURVEY FOR FARALLON CONSULTING, L.L.C. WASHINGTON KING COUNTY</p>											
JOB NO.	18-56										
SHEET	1 OF 2										



- LEGEND**
- ✱ FOUND MONUMENT, AS NOTED
 - ⊕ SECTION CORNER, AS NOTED
 - ⊙ FOUND QUARTER CORNER, AS NOTED
 - FND PROPERTY CORNER, AS NOTED
 - SET 1/2" REBAR W/ YELLOW CAP STAMPED "53385"
 - ⊙ WATER VALVE
 - ⊙ FIRE HYDRANT
 - ⊙ UTILITY POLE
 - ⊙ LIGHT POLE
 - ⊙ GUY ANCHOR
 - ⊙ WATER METER
 - ⊙ TELEPHONE VAULT
 - ⊙ POWER METER
 - ⊙ GAS VALVE
 - ⊙ GAS METER
 - ⊙ STORM DRAIN CATCH BASIN, TYPE 1
 - ⊙ MANHOLE
 - ⊙ TRAFFIC SIGN
 - ⊙ MONITOR WELL
 - ⊙ INVERT ELEVATION
 - ⊙ SANITARY SEWER
 - ⊙ SD STORM DRAIN
 - ⊙ GAS EXISTING GAS LINE (UNDERGROUND)
 - ⊙ W EXISTING WATER LINE (UNDERGROUND)
 - ⊙ OHP OVERHEAD POWER
 - ⊙ TELE OVERHEAD TELEPHONE
 - ⊙ CONC CONCRETE
 - ⊙ CLF CHAIN LINK FENCE

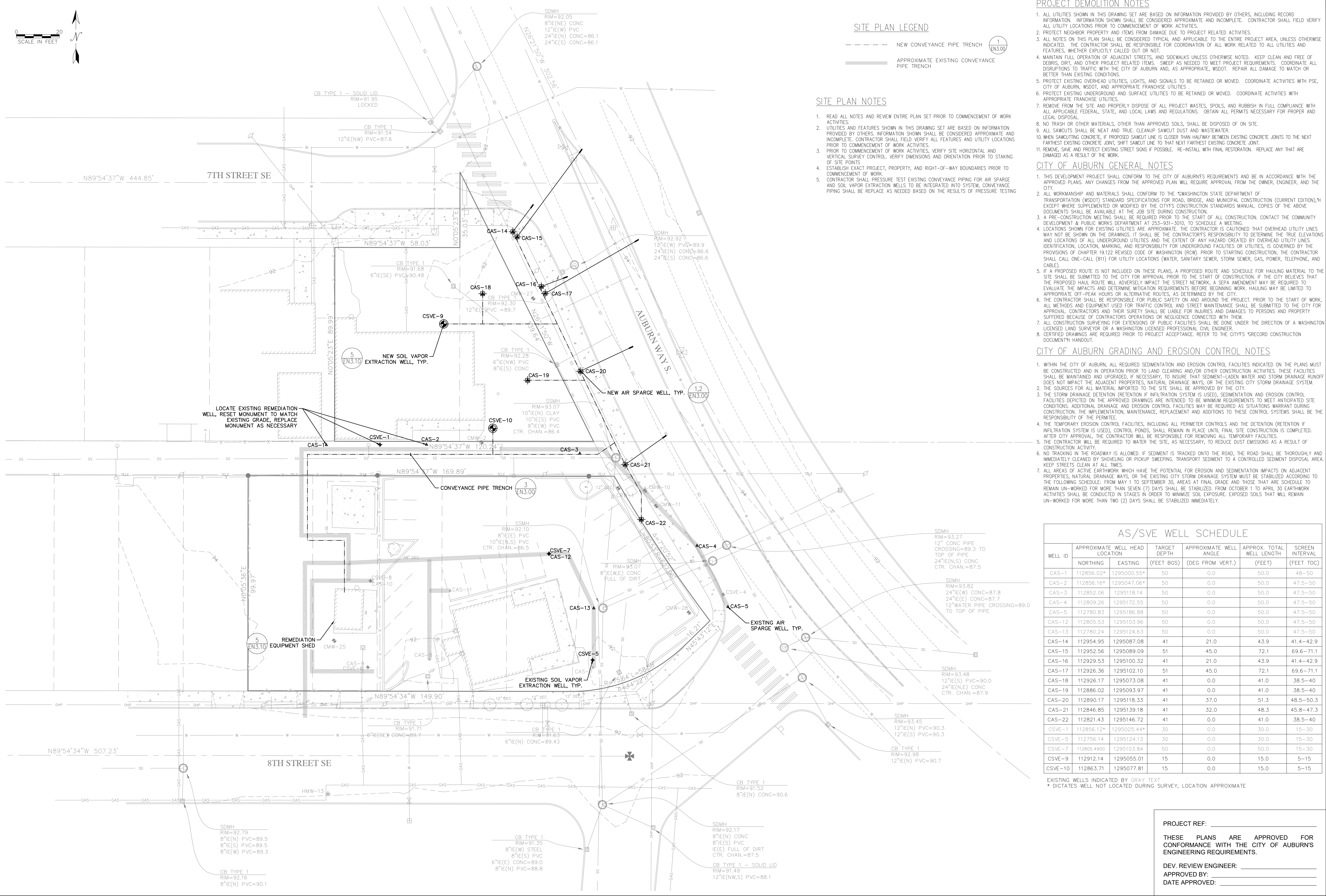
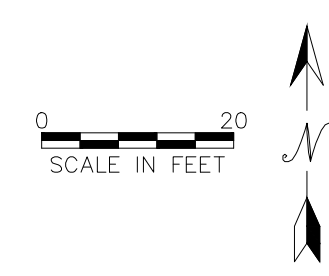


No.	Date	Revisions
	11/09/18 <td> </td>	

NORTH PEAK ASSOCIATES LLC
 PROFESSIONAL LAND SURVEYORS
 10512 NE 140TH STREET
 KIRKLAND, WA 98034
 Phone (206) 601-4662
 File path & Name



AUBURN WAY
BOUNDARY & TOPOGRAPHIC SURVEY
 FOR
FARALLON CONSULTING, L.L.C.
WASHINGTON
KING COUNTY



SITE PLAN LEGEND



SITE PLAN NOTES

1. READ ALL NOTES AND REVIEW ENTIRE PLAN SET PRIOR TO COMMENCEMENT OF WORK ACTIVITIES.
2. UTILITIES AND FEATURES SHOWN IN THIS DRAWING SET ARE BASED ON INFORMATION PROVIDED BY OTHERS. INFORMATION SHOWN SHALL BE CONSIDERED APPROXIMATE AND INCOMPLETE. CONTRACTOR SHALL FIELD VERIFY ALL FEATURES AND UTILITY LOCATIONS PRIOR TO COMMENCEMENT OF WORK ACTIVITIES.
3. PRIOR TO COMMENCEMENT OF WORK ACTIVITIES, VERIFY SITE HORIZONTAL AND VERTICAL SURVEY CONTROL. VERIFY DIMENSIONS AND ORIENTATION PRIOR TO STAKING OF SITE POINTS.
4. ESTABLISH EXACT PROJECT, PROPERTY, AND RIGHT-OF-WAY BOUNDARIES PRIOR TO COMMENCEMENT OF WORK.
5. CONTRACTOR SHALL PRESSURE TEST EXISTING CONVEYANCE PIPING FOR AIR SPARGE AND SOIL VAPOR EXTRACTION WELLS TO BE INTEGRATED INTO SYSTEM. CONVEYANCE PIPING SHALL BE REPLACED AS NEEDED BASED ON THE RESULTS OF PRESSURE TESTING.

PROJECT DEMOLITION NOTES

1. ALL UTILITIES SHOWN IN THIS DRAWING SET ARE BASED ON INFORMATION PROVIDED BY OTHERS, INCLUDING RECORD INFORMATION. INFORMATION SHOWN SHALL BE CONSIDERED APPROXIMATE AND INCOMPLETE. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO COMMENCEMENT OF WORK ACTIVITIES.
2. PROTECT NEIGHBOR PROPERTY AND ITEMS FROM DAMAGE DUE TO PROJECT RELATED ACTIVITIES.
3. ALL NOTES ON THIS PLAN SHALL BE CONSIDERED TYPICAL AND APPLICABLE TO THE ENTIRE PROJECT AREA, UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK RELATED TO ALL UTILITIES AND FEATURES, WHETHER EXPLICITLY CALLED OUT OR NOT.
4. MAINTAIN FULL OPERATION OF ADJACENT STREETS, AND SIDEWALKS UNLESS OTHERWISE NOTED. KEEP CLEAN AND FREE OF DEBRIS, DIRT, AND OTHER PROJECT RELATED ITEMS. SWEEP AS NEEDED TO MEET PROJECT REQUIREMENTS. COORDINATE ALL DISRUPTIONS TO TRAFFIC WITH THE CITY OF AUBURN AND, AS APPROPRIATE, WSDOT. REPAIR ALL DAMAGE TO MATCH OR BETTER THAN EXISTING CONDITIONS.
5. PROTECT EXISTING OVERHEAD UTILITIES, LIGHTS, AND SIGNALS TO BE RETAINED OR MOVED. COORDINATE ACTIVITIES WITH PSE, CITY OF AUBURN, WSDOT, AND APPROPRIATE FRANCHISE UTILITIES.
6. PROTECT EXISTING UNDERGROUND AND SURFACE UTILITIES TO BE RETAINED OR MOVED. COORDINATE ACTIVITIES WITH APPROPRIATE FRANCHISE UTILITIES.
7. REMOVE FROM THE SITE AND PROPERLY DISPOSE OF ALL PROJECT WASTES, SPOILS, AND RUBBISH IN FULL COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS. OBTAIN ALL PERMITS NECESSARY FOR PROPER AND LEGAL DISPOSAL.
8. NO TRASH OR OTHER MATERIALS, OTHER THAN APPROVED SOILS, SHALL BE DEPOSED ON SITE.
9. ALL SCAFFOLDS SHALL BE NEAR AND TRUE. CLEANUP SAWDUST AND WASTEWATER.
10. WHEN SAWING CONCRETE, IF PROPOSED SAWCUT LINE IS CLOSER THAN HALFWAY BETWEEN EXISTING CONCRETE JOINTS TO THE NEXT FARTHEST EXISTING CONCRETE JOINT, SAWCUT LINE TO THAT NEXT FARTHEST EXISTING CONCRETE JOINT.
11. REMOVE, SAVE AND PROTECT EXISTING STREET SIGNS IF POSSIBLE. RE-INSTALL WITH FINAL RESTORATION. REPLACE ANY THAT ARE DAMAGED AS A RESULT OF THE WORK.

CITY OF AUBURN GENERAL NOTES

1. THIS DEVELOPMENT PROJECT SHALL CONFORM TO THE CITY OF AUBURN'S REQUIREMENTS AND BE IN ACCORDANCE WITH THE APPROVED PLANS. ANY CHANGES FROM THE APPROVED PLAN WILL REQUIRE APPROVAL FROM THE OWNER, ENGINEER, AND THE CITY.
2. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE "WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (CURRENT EDITION), EXCEPT WHERE SUPPLEMENTED OR MODIFIED BY THE CITY'S CONSTRUCTION STANDARDS MANUAL. COPIES OF THE ABOVE DOCUMENTS SHALL BE AVAILABLE AT THE JOB SITE DURING CONSTRUCTION.
3. A PRE-CONSTRUCTION MEETING SHALL BE REQUIRED PRIOR TO THE START OF ALL CONSTRUCTION. CONTACT THE COMMUNITY DEVELOPMENT & PUBLIC WORKS DEPARTMENT AT 253-931-3010, TO SCHEDULE A MEETING.
4. LOCATIONS SHOWN FOR EXISTING UTILITIES ARE APPROXIMATE. THE CONTRACTOR IS CAUTIONED THAT OVERHEAD UTILITY LINES MAY NOT BE SHOWN ON THE DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF ALL UNDERGROUND UTILITIES AND THE EXTENT OF ANY HAZARD CREATED BY OVERHEAD UTILITY LINES. IDENTIFICATION, LOCATION, MARKING, AND RESPONSIBILITY FOR UNDERGROUND FACILITIES OR UTILITIES, IS COVERED BY THE PROVISIONS OF CHAPTER 19.122 REVISED CODE OF WASHINGTON (RCW). PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL CALL ONE-CALL (811) FOR UTILITY LOCATIONS (WATER, SANITARY SEWER, STORM SEWER, GAS, POWER, TELEPHONE, AND CABLE).
5. IF A PROPOSED ROUTE IS NOT INCLUDED ON THESE PLANS, A PROPOSED ROUTE AND SCHEDULE FOR HAULING MATERIAL TO THE SITE SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. IF THE CITY BELIEVES THAT THE PROPOSED HAUL ROUTE WILL ADVERSELY IMPACT THE STREET NETWORK, A SEPA AMENDMENT MAY BE REQUIRED TO EVALUATE THE IMPACTS AND DETERMINE MITIGATION REQUIREMENTS BEFORE BEGINNING WORK. HAULING MAY BE LIMITED TO APPROPRIATE OFF-PEAK HOURS OR ALTERNATIVE ROUTES, AS DETERMINED BY THE CITY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PUBLIC SAFETY ON AND AROUND THE PROJECT. PRIOR TO THE START OF WORK, ALL METHODS AND EQUIPMENT USED FOR TRAFFIC CONTROL AND STREET MAINTENANCE SHALL BE SUBMITTED TO THE CITY FOR APPROVAL. CONTRACTORS AND THEIR SURETY SHALL BE LIABLE FOR INJURIES AND DAMAGES TO PERSONS AND PROPERTY SUFFERED BECAUSE OF CONTRACTOR OPERATIONS OR NEGLIGENCE CONNECTED WITH THE PROJECT.
7. ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON LICENSED LAND SURVEYOR OR A WASHINGTON LICENSED PROFESSIONAL CIVIL ENGINEER.
8. CERTIFIED DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE. REFER TO THE CITY'S "RECORD CONSTRUCTION DOCUMENTS" HANDBOOK.

CITY OF AUBURN GRADING AND EROSION CONTROL NOTES

1. WITHIN THE CITY OF AUBURN, ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES INDICATED ON THE PLANS MUST BE CONSTRUCTED PRIOR TO LAND CLEARING AND/OR OTHER CONSTRUCTION ACTIVITIES. THESE FACILITIES SHALL BE MAINTAINED AND UPGRADED, IF NECESSARY, TO INSURE THAT SEDIMENT-LADEN WATER AND STORM DRAINAGE RUNOFF DOES NOT IMPACT THE ADJACENT PROPERTIES, NATURAL DRAINAGE WAYS, OR THE EXISTING CITY STORM DRAINAGE SYSTEM.
2. THE SOURCES FOR ALL MATERIAL IMPORTED TO THE SITE SHALL BE APPROVED BY THE CITY.
3. THE STORM DRAINAGE DETENTION (RETENTION IF INFILTRATION SYSTEM IS USED), SEDIMENTATION AND EROSION CONTROL FACILITIES DEPICTED ON THE APPROVED DRAWINGS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL DRAINAGE AND EROSION CONTROL FACILITIES MAY BE REQUIRED AS SITUATIONS WARRANT DURING CONSTRUCTION. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT AND ADDITIONS TO THESE CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITEE.
4. THE TEMPORARY EROSION CONTROL FACILITIES, INCLUDING ALL PERMETER CONTROLS AND THE DETENTION (RETENTION IF INFILTRATION SYSTEM IS USED), CONTROL PONDS, SHALL REMAIN IN PLACE UNTIL FINAL SITE CONSTRUCTION IS COMPLETED. AFTER CITY APPROVAL, THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING ALL TEMPORARY FACILITIES.
5. THE CONTRACTOR WILL BE REQUIRED TO WATER THE SITE, AS NECESSARY, TO REDUCE DUST EMISSIONS AS A RESULT OF CONSTRUCTION ACTIVITY.
6. NO TRACKING IN THE ROADWAY IS ALLOWED. IF SEDIMENT IS TRACKED ONTO THE ROAD, THE ROAD SHALL BE THOROUGHLY AND IMMEDIATELY CLEANED BY SHOVELING OR PICKUP SWEEPING. TRANSPORT SEDIMENT TO A CONTROLLED SEDIMENT DISPOSAL AREA. KEEP STREETS CLEAN AT ALL TIMES.
7. ALL AREAS OF ACTIVE EARTHWORK WHICH HAVE THE POTENTIAL FOR EROSION AND SEDIMENTATION IMPACTS ON ADJACENT PROPERTIES, NATURAL DRAINAGE WAYS, OR THE CITY STORM DRAINAGE SYSTEM MUST BE STABILIZED ACCORDING TO THE FOLLOWING SCHEDULE: FROM MAY 1 TO SEPTEMBER 30, AREAS AT FINAL GRADE AND THOSE THAT ARE SCHEDULED TO REMAIN UN-WORKED FOR MORE THAN SEVEN (7) DAYS SHALL BE STABILIZED. FROM OCTOBER 1 TO APRIL 30 EARTHWORK ACTIVITIES SHALL BE CONDUCTED IN STAGES IN ORDER TO MINIMIZE SOIL EXPOSURE. EXPOSED SOILS THAT WILL REMAIN UN-WORKED FOR MORE THAN TWO (2) DAYS SHALL BE STABILIZED IMMEDIATELY.

AS/SVE WELL SCHEDULE

WELL ID	APPROXIMATE WELL HEAD LOCATION		TARGET DEPTH (FEET BGS)	APPROXIMATE WELL ANGLE (DEG FROM VERT.)	APPROX. TOTAL WELL LENGTH (FEET)	SCREEN INTERVAL (FEET TOC)
	NORTHING	EASTING				
CAS-1	112856.02*	1295000.55*	50	0.0	50.0	48-50
CAS-2	112856.16*	1295047.06*	50	0.0	50.0	47.5-50
CAS-3	112852.06	1295118.14	50	0.0	50.0	47.5-50
CAS-4	112809.26	1295172.55	50	0.0	50.0	47.5-50
CAS-5	112780.83	1295186.88	50	0.0	50.0	47.5-50
CAS-12	112805.53	1295103.96	50	0.0	50.0	47.5-50
CAS-13	112780.24	1295124.63	50	0.0	50.0	47.5-50
CAS-14	112954.95	1295087.08	41	21.0	43.9	41.4-42.9
CAS-15	112952.56	1295089.09	51	45.0	72.1	69.6-71.1
CAS-16	112929.53	1295100.32	41	21.0	43.9	41.4-42.9
CAS-17	112926.36	1295102.10	51	45.0	72.1	69.6-71.1
CAS-18	112926.17	1295073.08	41	0.0	41.0	38.5-40
CAS-19	112886.02	1295093.97	41	0.0	41.0	38.5-40
CAS-20	112890.17	1295118.33	41	37.0	51.3	48.5-50.3
CAS-21	112846.85	1295139.18	41	32.0	48.3	45.8-47.3
CAS-22	112821.43	1295146.72	41	0.0	41.0	38.5-40
CSVE-1	112856.12*	1295025.44*	30	0.0	30.0	15-30
CSVE-5	112756.14	1295124.13	30	0.0	30.0	15-30
CSVE-7	112805.4900	1295103.84	50	0.0	50.0	15-30
CSVE-9	112912.14	1295055.01	15	0.0	15.0	5-15
CSVE-10	112863.71	1295077.81	15	0.0	15.0	5-15

EXISTING WELLS INDICATED BY GRAY TEXT
 * DICTATES WELL NOT LOCATED DURING SURVEY, LOCATION APPROXIMATE

ISSUED FOR PERMIT REVIEW	REVISION DESCRIPTION	DATE	BY	CRP
11/12/18				CHKD. APP.
				
				
PREPARED BY: FARALLON CONSULTING 975 5TH AVENUE NORTHWEST ISSASQUAH, WA 98027 (253) 295-0800 farallonconsulting.com				
PREPARED FOR: CHS, INC. 763 WILLOUGHBY LANE STEVENSVILLE, MONTANA 59870				
SITE PLAN				
CHS AUBURN SITE AUBURN, WASHINGTON APN: 03141600800, 3141600810, & 0835000035				
				
PROJECT LOCATION (S.T.R.): PORTIONS OF THE N1/4 OF SEC. 019 TWP. 021N. R16E. W1M.				
JURISDICTION FILE NO.:				
FARALLON PROJECT NO.: 301-004 SHEET 4 OF 7				
EN2.00				

PROJECT REF: _____

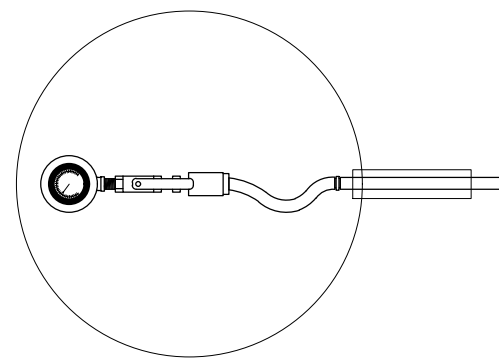
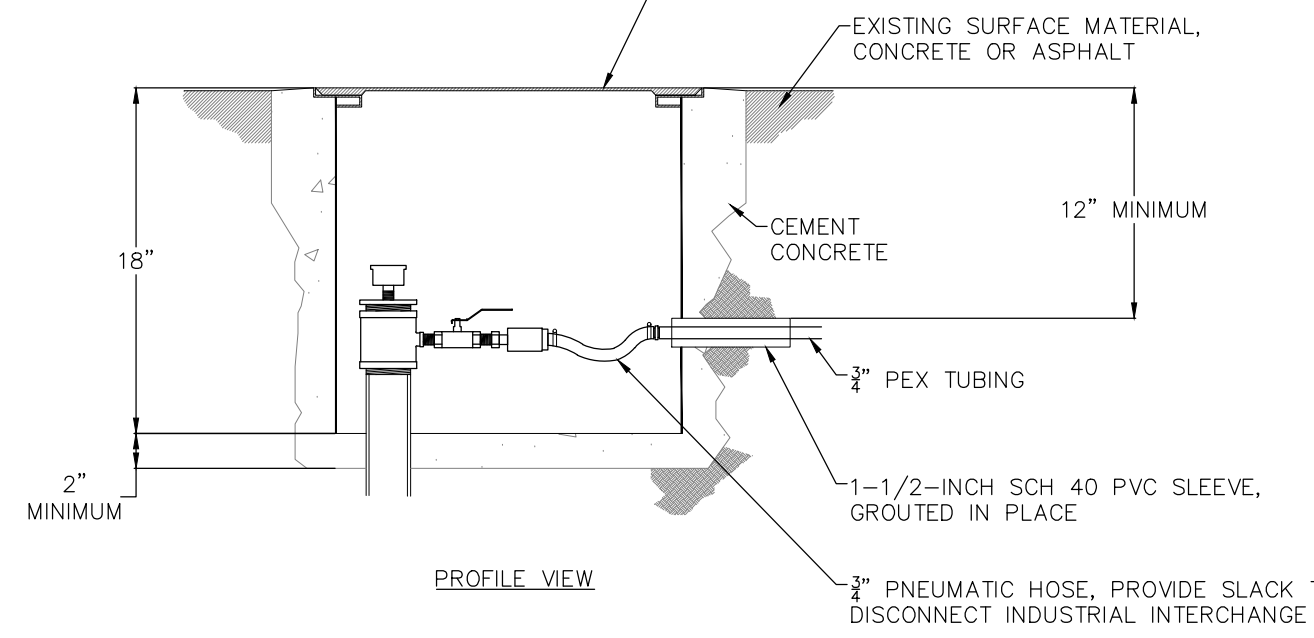
THESE PLANS ARE APPROVED FOR CONFORMANCE WITH THE CITY OF AUBURN'S ENGINEERING REQUIREMENTS.

DEV. REVIEW ENGINEER: _____

APPROVED BY: _____

DATE APPROVED: _____

- EMCO WHEATON MONUMENT MODEL # A0721-118, 18-INCH DIAMETER WITH 18 INCH SKIRT. INCLUDED VALVES AND EQUIPMENT:
- (1) 2"x2"x $\frac{3}{4}$ " GALV. STEEL REDUCING TEE (FNPT)
 - (1) 2"x $\frac{3}{4}$ " GALV. STEEL BUSHING(S) (MNPT TO FNPT)
 - (1) PRESSURE GAUGE, 0-40 PSI, $\frac{3}{4}$ " MNPT BACK MOUNT
 - (2) $\frac{3}{4}$ " GALV. STEEL NIPPLE (MNPT)
 - (1) $\frac{3}{4}$ " BRASS BALL VALVE (FNPT)
 - (1) $\frac{3}{4}$ " QUICK CONNECT NIPPLE (MNPT TO INDUSTRIAL INTERCHANGE)
 - (1) $\frac{3}{4}$ " QUICK CONNECT COUPLER (INDUSTRIAL INTERCHANGE TO HOSE BARB)
 - (1) $\frac{3}{4}$ " PEX TUBING TO HOSE COUPLER (HOSE BARB)

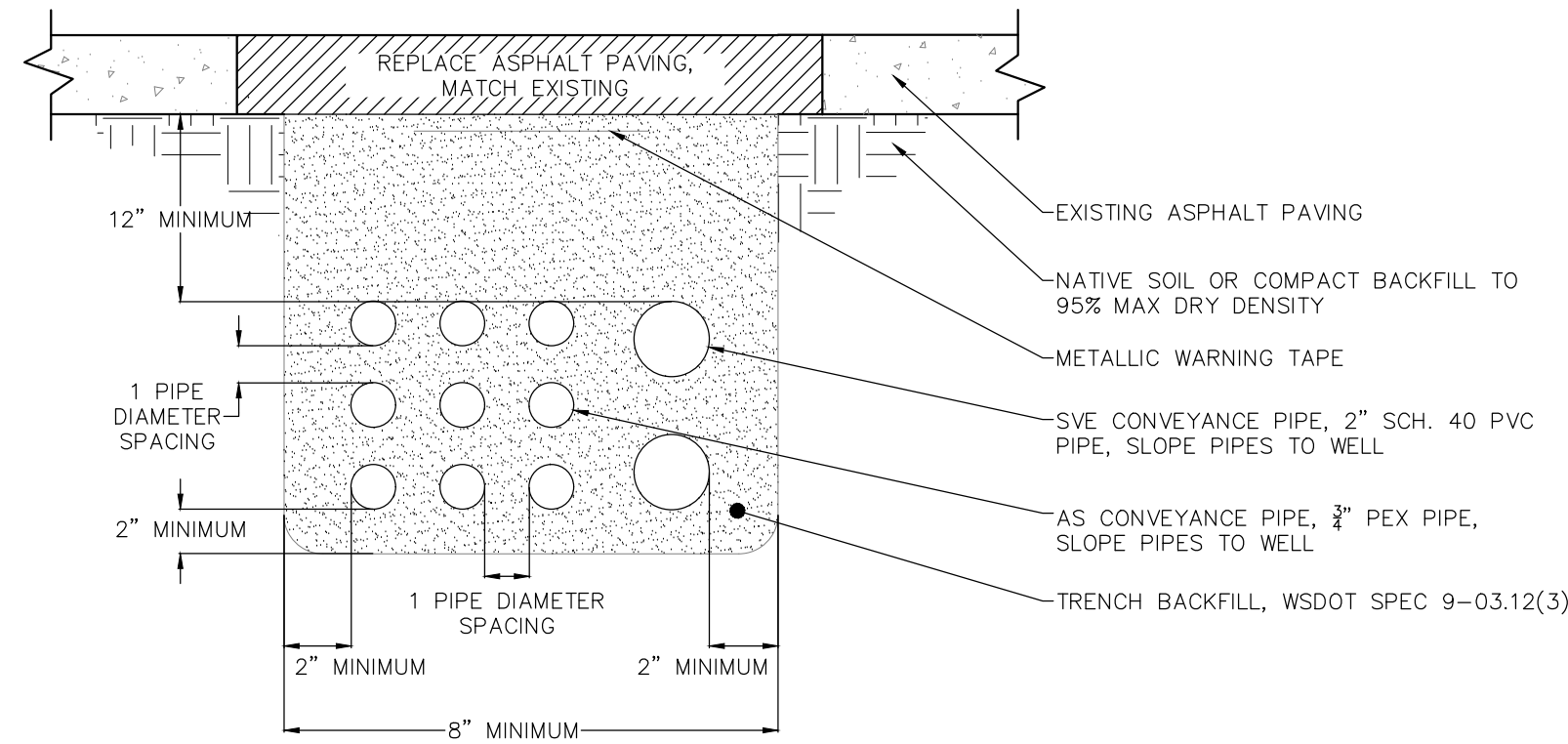


NOTES:

- IF MONUMENT DOES NOT MEET SPECIFICATION, CONTRACTOR SHALL REMOVE EXISTING WELL MONUMENT(S) PRIOR TO INSTALLATION OF NEW MONUMENT(S). CONTRACTOR SHALL PROTECT EXISTING WELL FROM DAMAGE.
- MONUMENT SHALL BE PLACED MINIMUM OF 2" AND MAXIMUM OF 6" FROM THE MONUMENT WALL.
- CONTRACTOR SHALL INSTALL MONUMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND GUIDELINES. MONUMENT SHALL BE SET WITH CEMENT CONCRETE AND MINIMUM 2" THICKNESS BOTTOM.
- MONUMENT TO BE SET $\frac{1}{4}$ " ABOVE EXISTING GRADE AND CEMENT SLOPED TO PROVIDE A SMOOTH TRANSITION.

1 AIR SPARGE WELL HEAD CONNECTION DETAIL

EN2.00 NOT TO SCALE

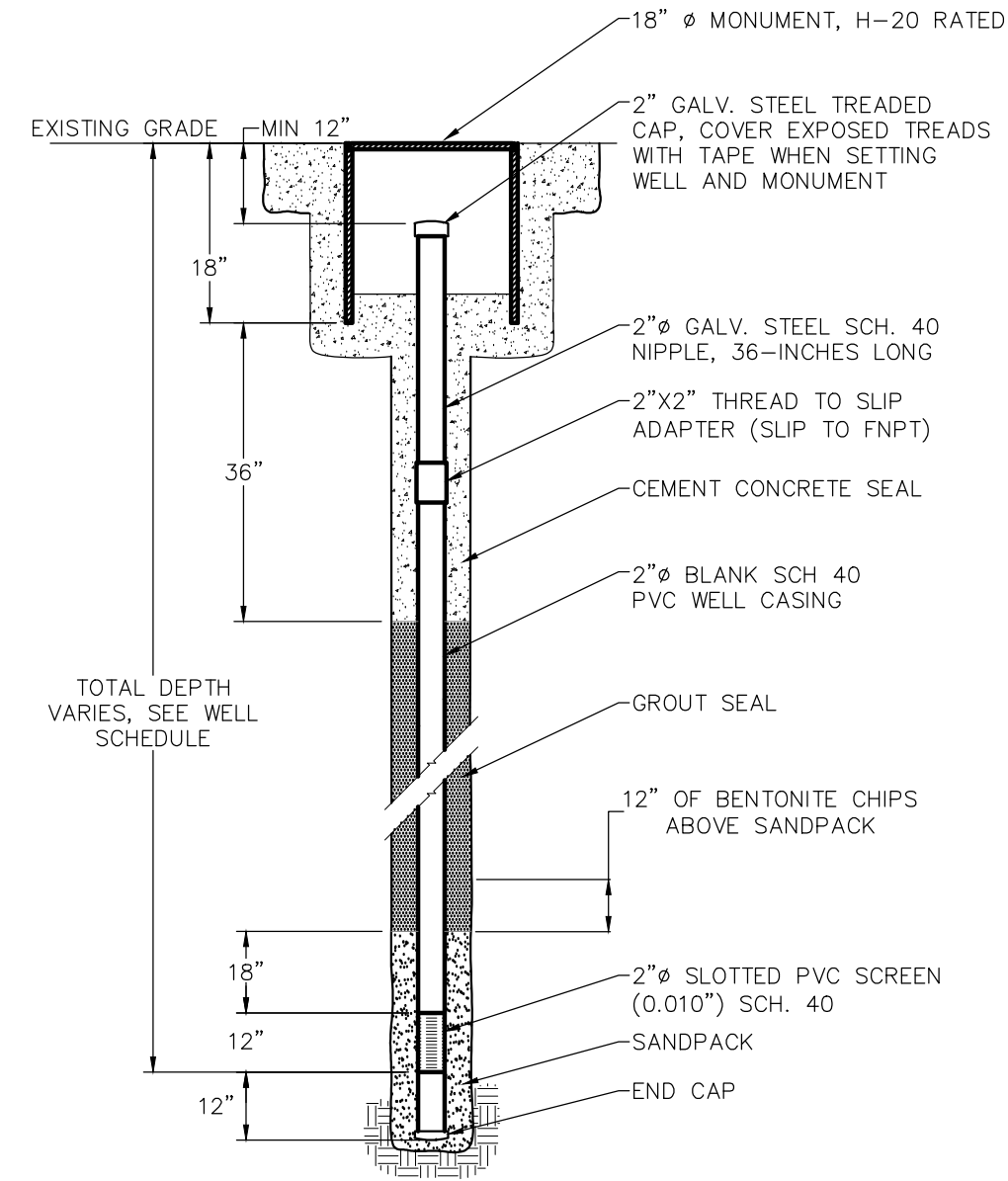


NOTES:

- PIPES SHALL HAVE ONE PIPE DIAMETER SPACING BETWEEN PIPES OF THE LARGEST PIPE DIAMETER IN TRENCH SECTION.
- PIPES SHALL HAVE ONE PIPE DIAMETER SPACING FROM EDGE AND BOTTOM OF TRENCH, PIPE DIAMETER SHALL BE THE LARGEST PIPE DIAMETER IN TRENCH SECTION.
- NEW CONVEYANCE LINES SHALL BE INSTALLED WITH MINIMUM PIPE SLOPE OF 0.2% (2.4 INCH PER 100 FEET) FROM REMEDIATION SHED TO WELL CONNECTION.

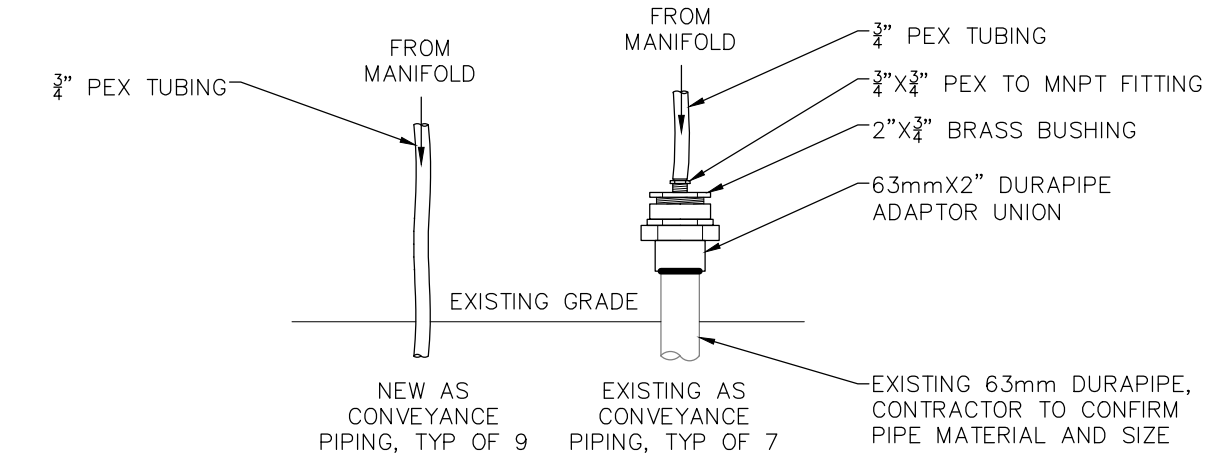
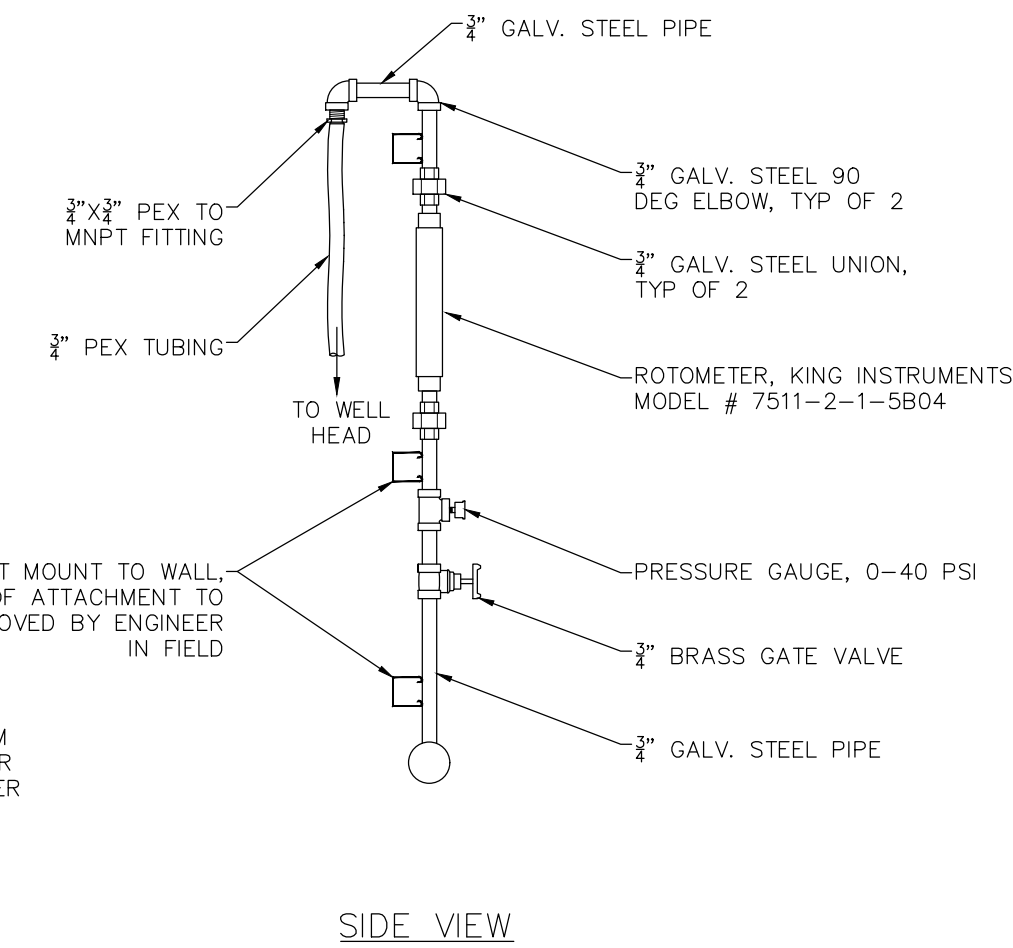
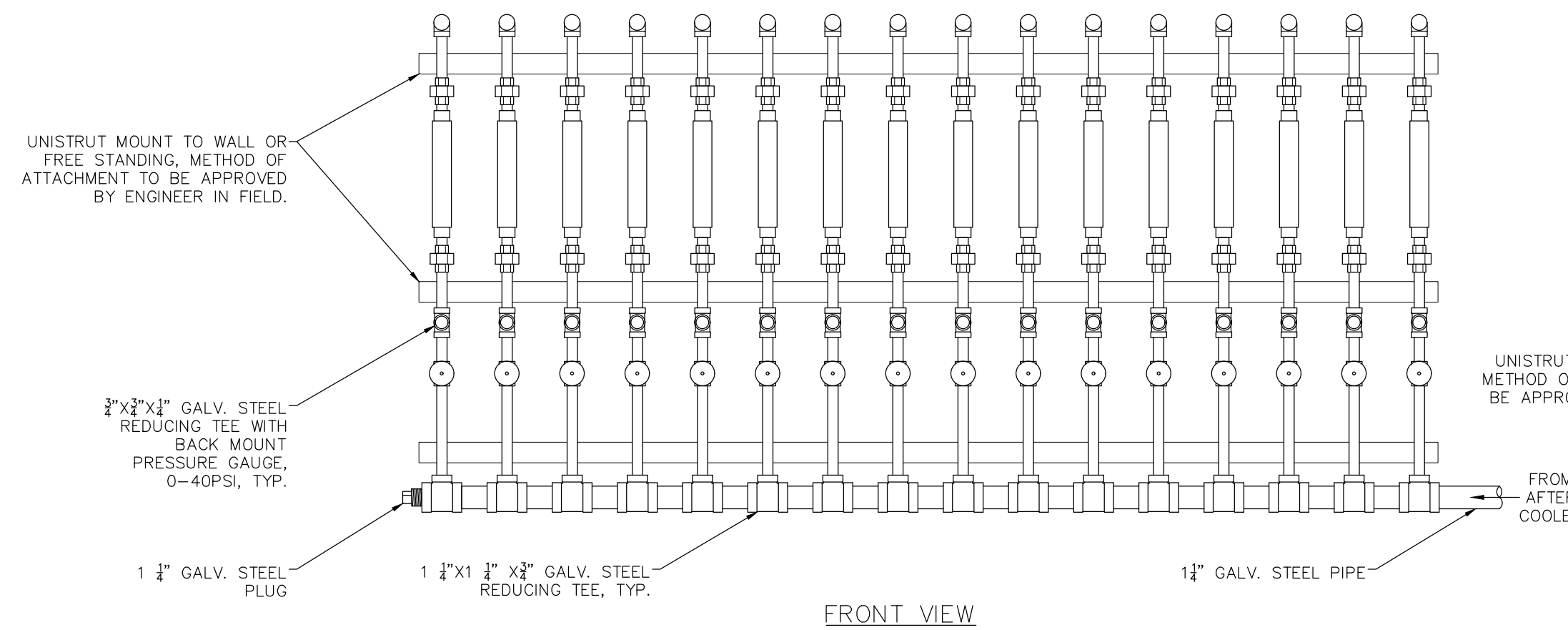
3 CONVEYANCE PIPE TRENCH DETAIL

EN2.00 NOT TO SCALE



2 AIR SPARGE WELL DETAIL

EN2.00 NOT TO SCALE



NOTES:

- SPACE AS RISER TO MINIMUM NECESSARY TO FABRICATE, OPERATE, AND MAINTAIN CONSIDERING THE SIZE OF TEES, NIPPLES, ELBOWS, UNIONS, AND VALVES.
- CONTRACTOR SHALL USE AND INSTALL FITTINGS TO MANUFACTURE RECOMMENDATIONS FOR ASSOCIATED PIPE MATERIALS.
- CONTRACTOR SHALL CONFIRM EXISTING CONVEYANCE PIPING MATERIAL AND SIZING PRIOR TO ACQUIRING FITTINGS

4 AIR SPARGE MANIFOLD DETAIL

EN3.10 NOT TO SCALE

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11.12.18			



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ISSAQUAH, WA 98027
(253) 295-0800
farallonconsulting.com

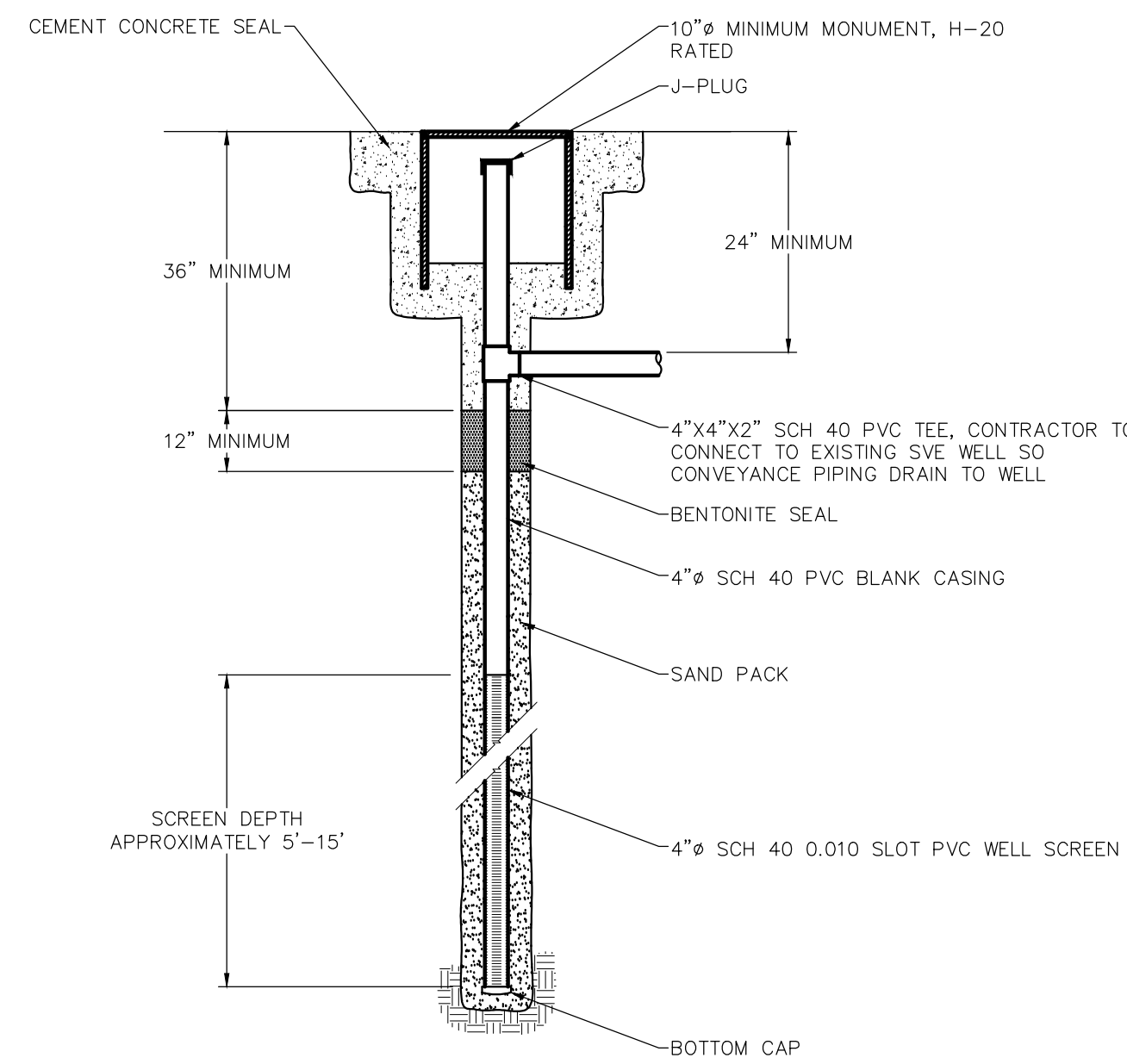
PREPARED FOR:
CHS, INC.
763 WILLOUGHBY LANE
STEVENSVILLE, MONTANA 59870

DETAILS
CHS AUBURN SITE
AUBURN, WASHINGTON
APN: 03141600800, 3141600810, & 0835000035

811
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PROJECT LOCATION (S,T,R):

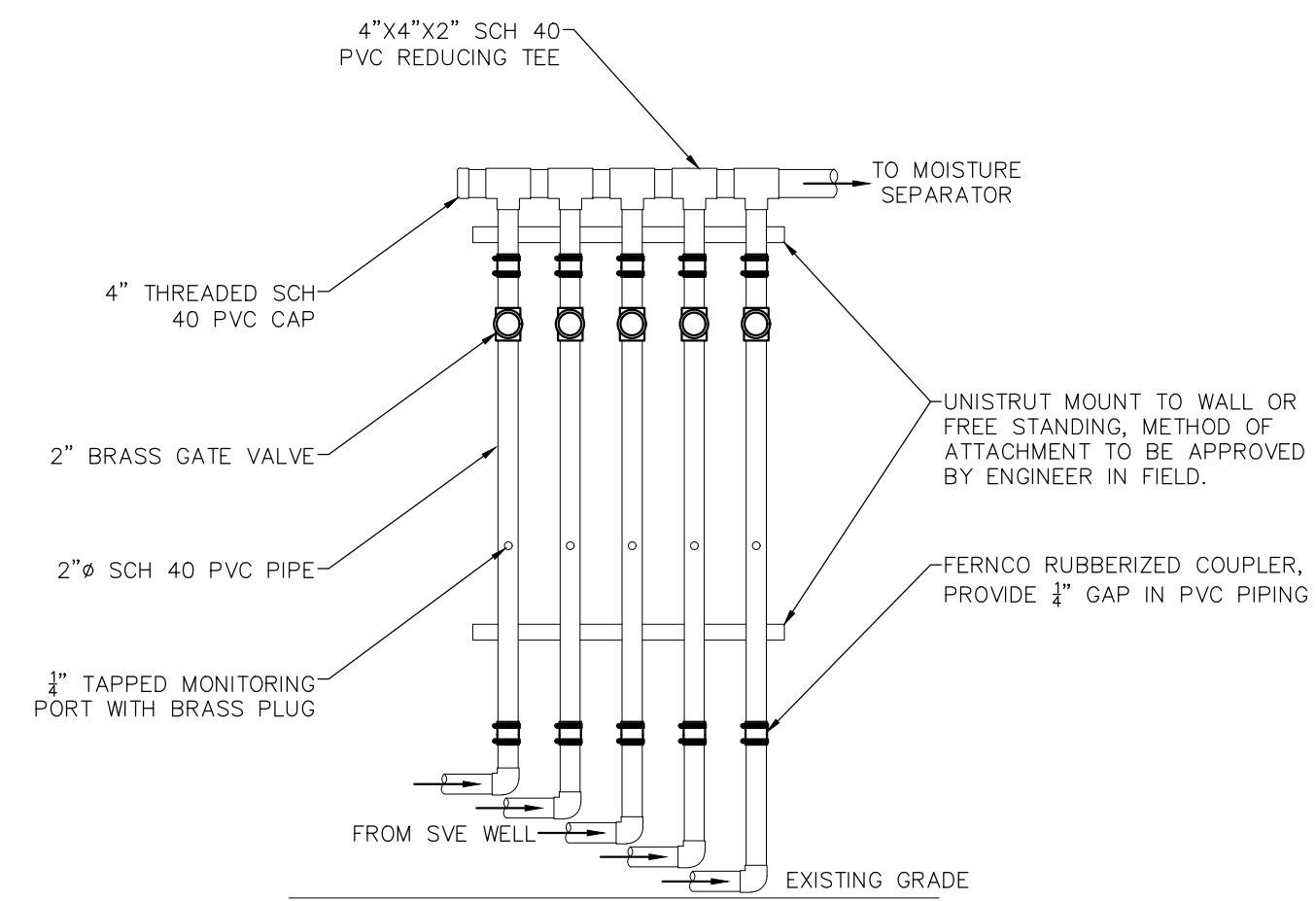
PORTIONS OF THE NW1/4 OF SEC. 019 TWP. 021N, RING. 06E, W.M.
JURISDICTION FILE NO.:
FARALLON PROJECT NO.:
301-004
SHEET
5 OF 7
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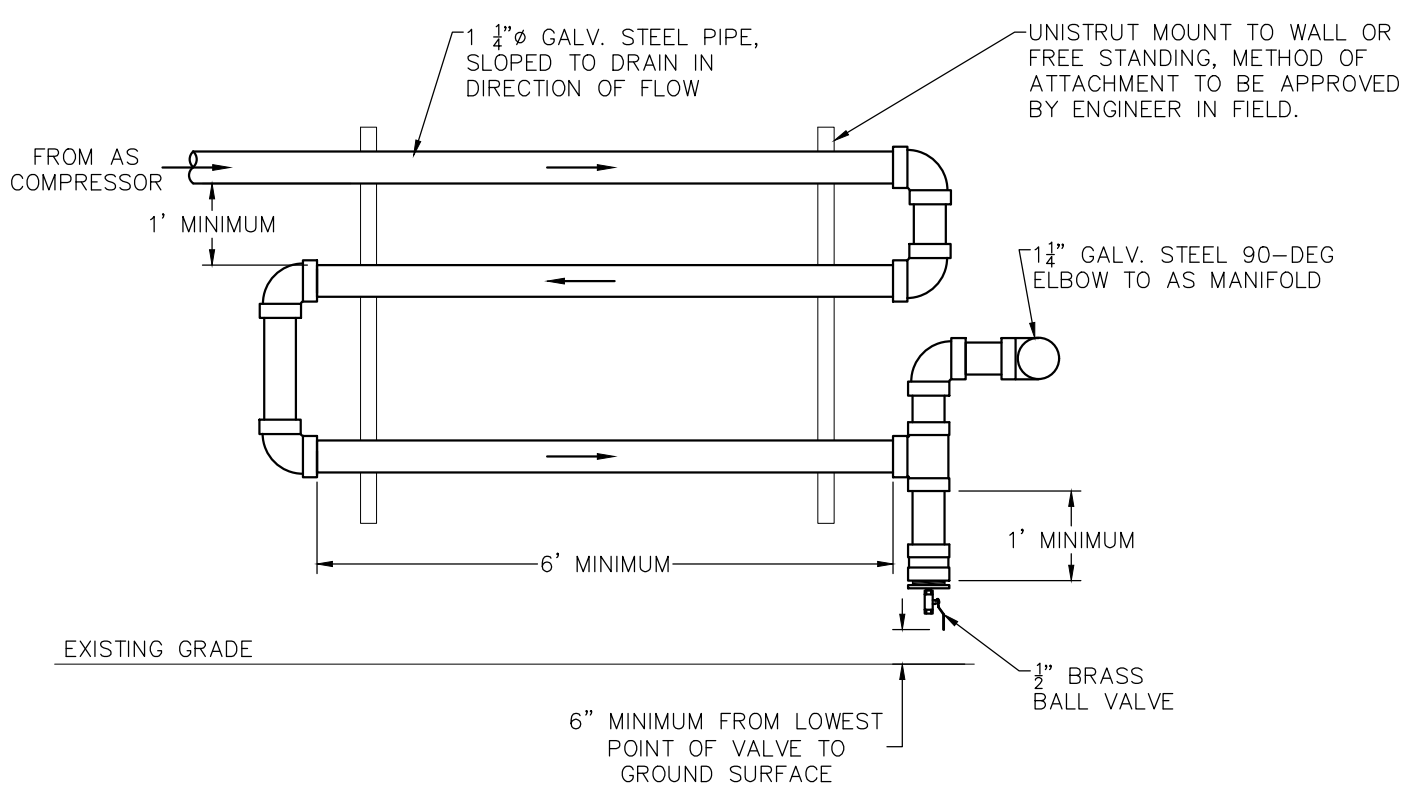
5 SOIL VAPOR EXTRACTION WELL DETAIL

EN2.00 NOT TO SCALE



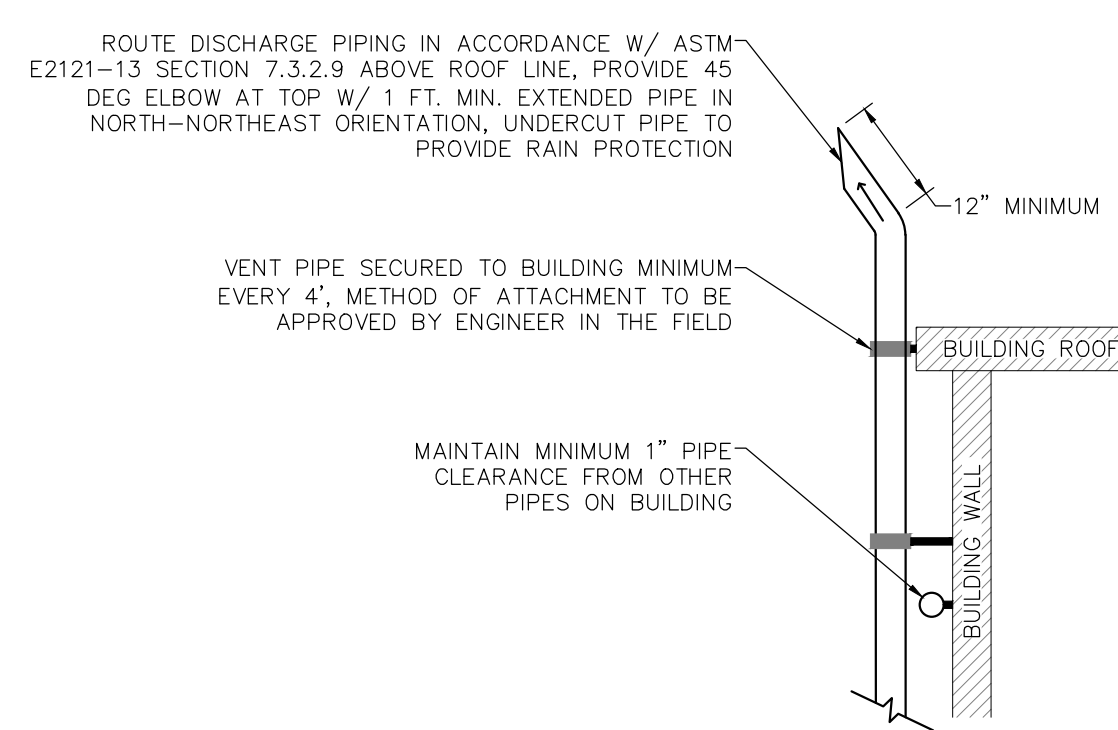
6 SOIL VAPOR EXTRACTION MANIFOLD DETAIL

EN3.10 NOT TO SCALE



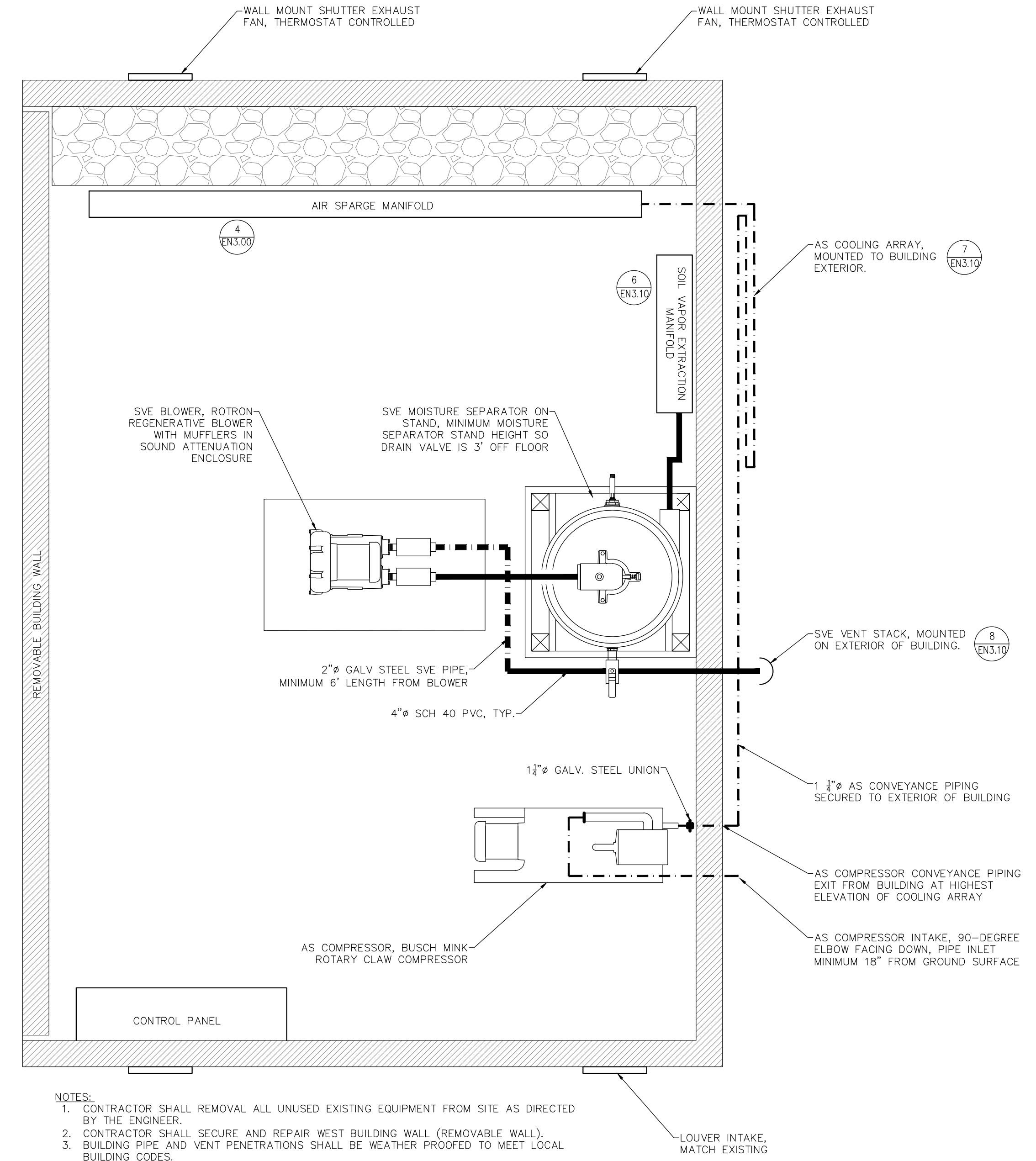
7 AIR SPARGE COOLING ARRAY DETAIL

EN3.10 NOT TO SCALE



8 VENT STACK DETAIL

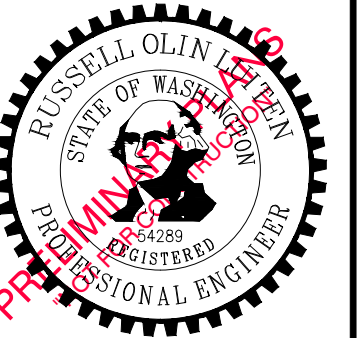
EN3.10 NOT TO SCALE



9 REMEDIATION SHED LAYOUT

EN2.00 NOT TO SCALE

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 975 5TH AVENUE NORTHWEST
 ISSASQUAH, WA 98027
 (253) 295-0800
 farallonconsulting.com

PREPARED FOR:
CHS, INC.
 763 WILLOUGHBY LANE
 STEVENSVILLE, MONTANA 59870

DETAILS
 CHS AUBURN SITE
 AUBURN, WASHINGTON
 APN: 03141600800, 3141600810, & 0855000035



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JURISDICTION FILE NO.:	
FARALLON PROJECT NO.:	301-004
SHEET	6 OF 7
EN3.10	

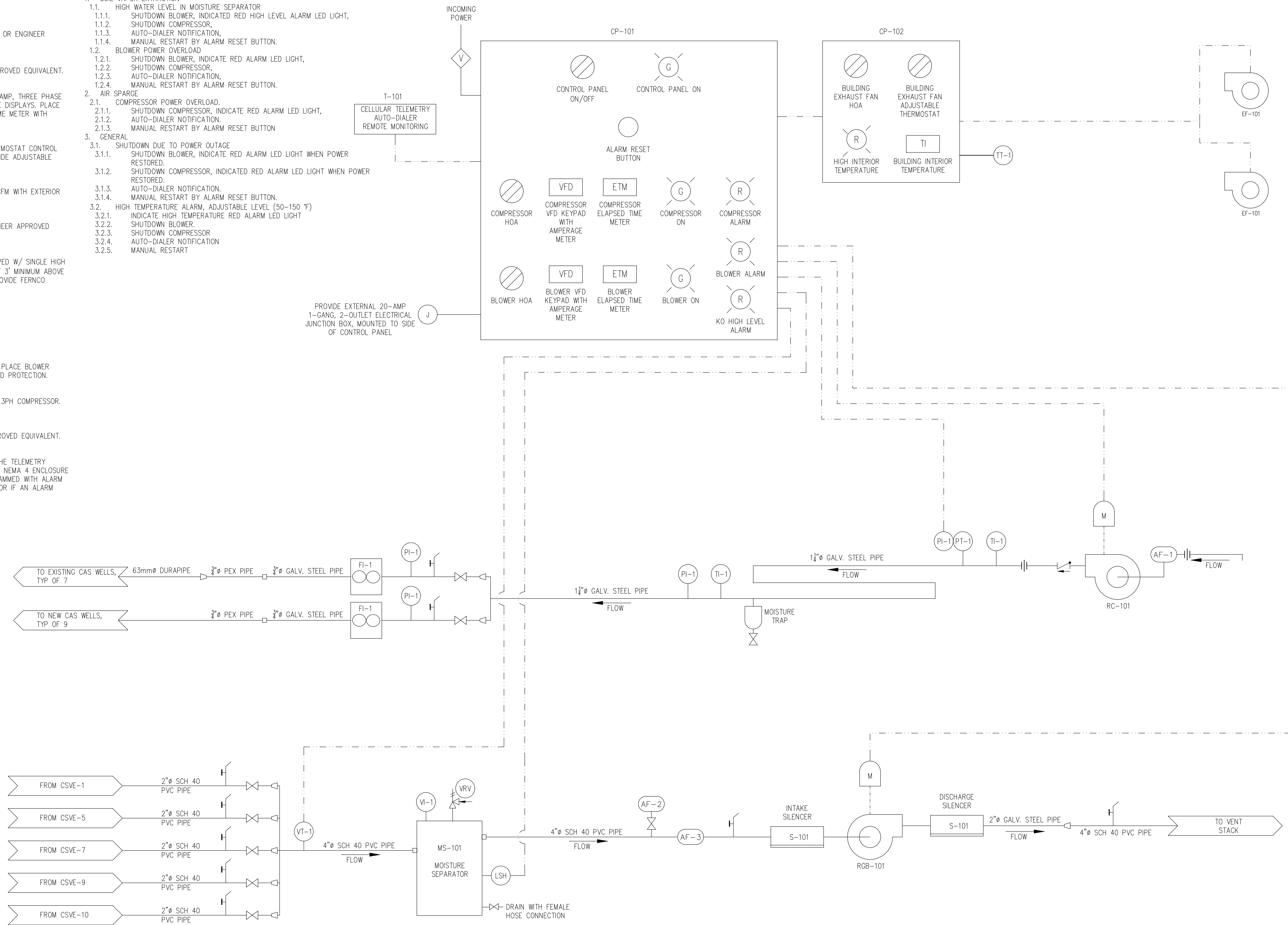
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11.12.18	DATE		

EQUIPMENT LIST

- AF-1
INLINE AIR FILTER, BUSCH MINK
- AF-2
2" Ø FILTERED SILENCER AIR INLET SOLBERG MODEL NO. FS-231P-300 OR ENGINEER APPROVED EQUIVALENT WITH 2" Ø BRASS GATE VALVE.
- AF-3
4" Ø INLINE AIR FILTER, ROTRON MODEL NO. 516465 OR ENGINEER APPROVED EQUIVALENT.
- CP-101
BLOWER AND COMPRESSOR CONTROL PANEL. OWNER TO SUPPLY 200 AMP, THREE PHASE ELECTRICAL SERVICE. PROVIDE 7.1hp AND 3.0hp VFDs WITH AMPERAGE DISPLAYS. PLACE VFD DISPLAYS ON OUTSIDE OF CONTROL PANEL. PROVIDE ELAPSED TIME METER WITH DISPLAYS ON OUTSIDE OF CONTROL PANEL.
- CP-102
EXHAUST FAN CONTROL PANEL, INTERLOCK TO CP-101. PROVIDE THERMOSTAT CONTROL AND TEMPERATURE INDICATOR ON OUTSIDE OF CONTROL PANEL. PROVIDE ADJUSTABLE ALARM RELAY, 50-200 F.
- EF-101
WALL MOUNTED SHUTTER EXHAUST FAN CAPABLE OF AT LEAST 450 CFM WITH EXTERIOR CLOSING SHUTTERS.
- FI-1
KING INSTRUMENTS ROTOMETER MODEL MO. 7511-2-1-5B04 OR ENGINEER APPROVED EQUIVALENT.
- MS-101
ROTRON CYCLONIC MOISTURE SEPARATOR MODEL NO. MS350BS EQUIPPED W/ SINGLE HIGH LEVEL SWITCH, VACUUM GAUGE, VACUUM RELIEF VALVE; ELEVATE UNIT 3' MINIMUM ABOVE CONCRETE FLOOR ON STAND TO BE APPROVED BY THE ENGINEER; PROVIDE FERRENCO CONNECTIONS ON INLET AND DISCHARGE.
- PI-1
PRESSURE INDICATOR RANGE AND UNITS: 0-40 PSI
- PT-1
PRESSURE TRANSDUCER RANGE AND UNITS: 0-40 PSI
- RGB-101
ROTRON REGENERATIVE BLOWER, MODEL NO. DR555K58: 3.0 Hp, 1PH. PLACE BLOWER WITHIN SOUND ENCLOSURE WITH COOLING FAN. INSTALL WITH OVERLOAD PROTECTION.
- RC-101
BUSCH MINK ROTARY CLAW COMPRESSOR, MODEL NO. 1144BP: 7.1hp, 3PH COMPRESSOR. INSTALL WITH OVERLOAD PROTECTION.
- S-101
DISCHARGE SILENCER, ROTRON MODEL NO. 550888 OR ENGINEER APPROVED EQUIVALENT.
- T-101
PROVIDE A SENSAPHONE SENTINEL MONITORING TELEMETRY SYSTEM. THE TELEMETRY SYSTEM SHALL BE INSTALLED WITHIN THE MAIN CONTROL PANEL OR A NEMA 4 ENCLOSURE TO PROVIDE WEATHER PROTECTION. THE TELEMETRY SHALL BE PROGRAMMED WITH ALARM CONDITIONS AND TRANSDUCER DATA, SYSTEM TO NOTIFY THE OPERATOR IF AN ALARM CONDITION EXISTS.
- TI-1
TEMPERATURE INDICATOR RANGE AND UNITS: 50-200 F
- TT-1
TEMPERATURE TRANSMITTER RANGE AND UNITS: 50-200 F
- VI-1
VACUUM INDICATOR RANGE AND UNITS: 0-100 IOW
- VT-1
VACUUM TRANSDUCER RANGE AND UNITS: 0-100 IOW

CONTROL LOGIC:

1. SOIL VAPOR EXTRACTION
 - 1.1. HIGH WATER LEVEL IN MOISTURE SEPARATOR
 - 1.1.1. SHUTDOWN BLOWER, INDICATED RED HIGH LEVEL ALARM LED LIGHT,
 - 1.1.2. SHUTDOWN COMPRESSOR,
 - 1.1.3. AUTO-DIALER NOTIFICATION,
 - 1.1.4. MANUAL RESTART BY ALARM RESET BUTTON.
 - 1.2. BLOWER POWER OVERLOAD
 - 1.2.1. SHUTDOWN BLOWER, INDICATE RED ALARM LED LIGHT,
 - 1.2.2. SHUTDOWN COMPRESSOR,
 - 1.2.3. AUTO-DIALER NOTIFICATION,
 - 1.2.4. MANUAL RESTART BY ALARM RESET BUTTON.
2. AIR SPARGE
 - 2.1. COMPRESSOR POWER OVERLOAD,
 - 2.1.1. SHUTDOWN COMPRESSOR, INDICATE RED ALARM LED LIGHT,
 - 2.1.2. AUTO-DIALER NOTIFICATION,
 - 2.1.3. MANUAL RESTART BY ALARM RESET BUTTON
3. GENERAL
 - 3.1. SHUTDOWN DUE TO POWER OUTAGE
 - 3.1.1. SHUTDOWN BLOWER, INDICATE RED ALARM LED LIGHT WHEN POWER RESTORED.
 - 3.1.2. SHUTDOWN COMPRESSOR, INDICATED RED ALARM LED LIGHT WHEN POWER RESTORED.
 - 3.1.3. AUTO-DIALER NOTIFICATION,
 - 3.1.4. MANUAL RESTART BY ALARM RESET BUTTON.
 - 3.2. HIGH TEMPERATURE ALARM, ADJUSTABLE LEVEL (50-150 F)
 - 3.2.1. INDICATE HIGH TEMPERATURE RED ALARM LED LIGHT
 - 3.2.2. SHUTDOWN BLOWER,
 - 3.2.3. SHUTDOWN COMPRESSOR
 - 3.2.4. AUTO-DIALER NOTIFICATION
 - 3.2.5. MANUAL RESTART



PROVIDE EXTERNAL 20-AMP 1-GANG, 2-OUTLET ELECTRICAL JUNCTION BOX, MOUNTED TO SIDE OF CONTROL PANEL

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 DEV. REVIEW ENGINEER: _____
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PREPARED BY:  FARALLON CONSULTING 975 5TH AVENUE NORTHWEST ISSASQUAH, WA 98027 (253) 295-0800 farallonconsulting.com	
PREPARED FOR: CHS INC. 763 WILLOUGHBY LANE STEVENSVILLE, MONTANA 59870	
PROCESS AND INSTRUMENTATION DIAGRAM	
CHS AUBURN SITE AUBURN, WASHINGTON APN: 03141600800, 3141600810, & 0855000035	
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301-004 SHEET 7 OF 7	
EN4.00	