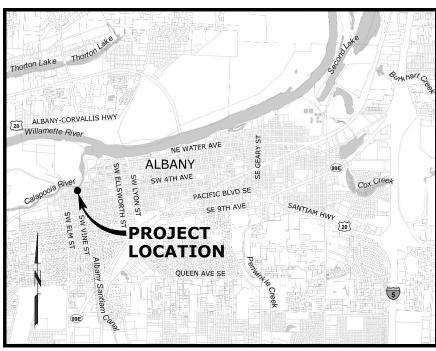


VINE STREET WATER TREATMENT PLANT **CLEAR WELL REHABILITATION WTP-20-01**

OCTOBER 2020



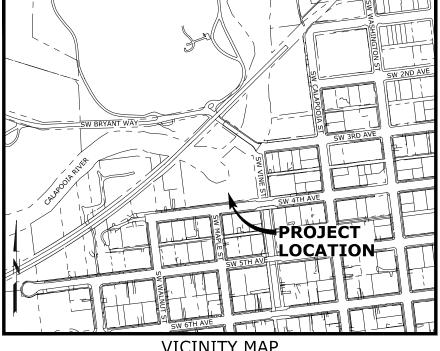
LOCATION MAP

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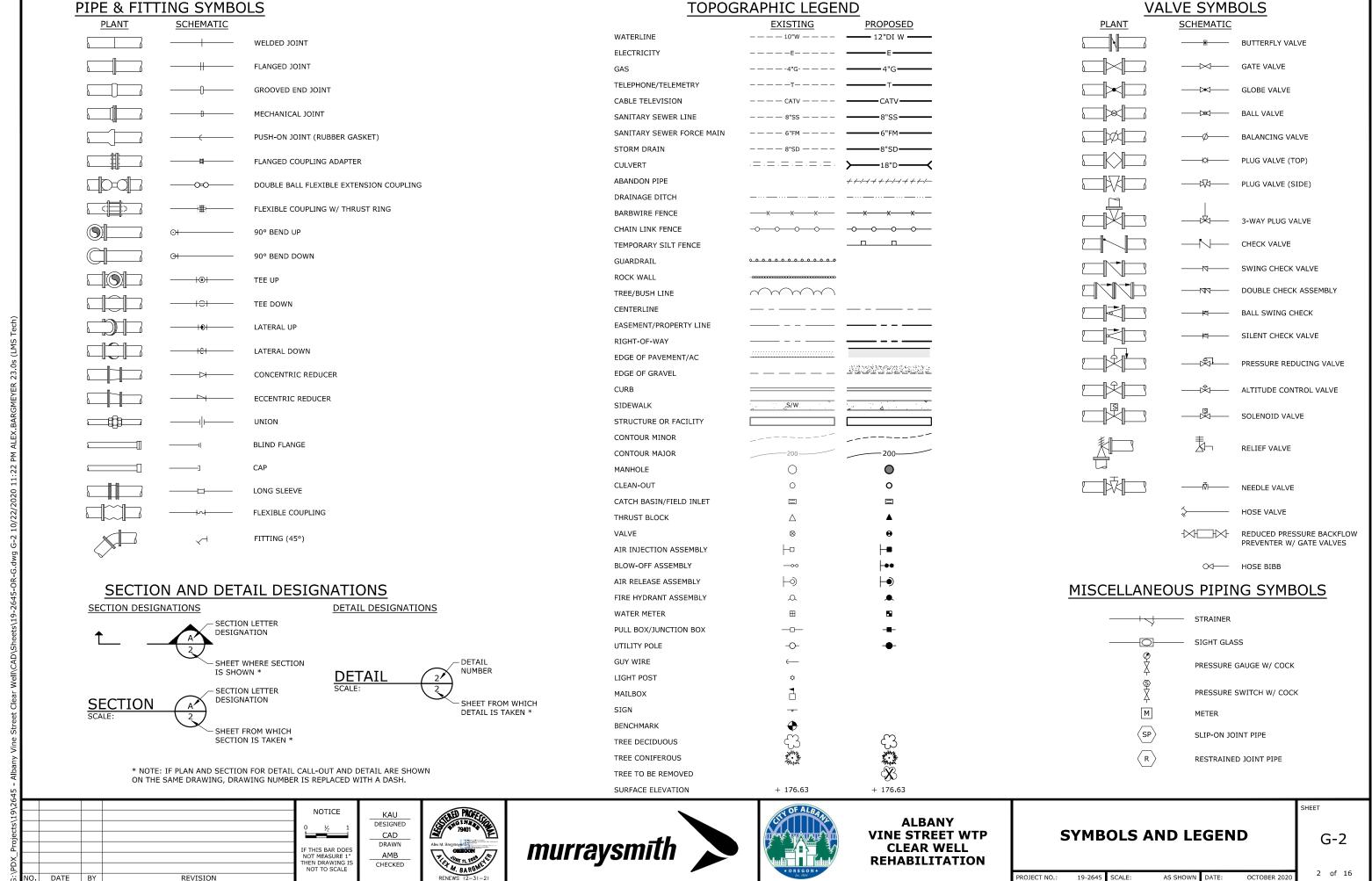
STRUCTURAL DETAILS



VICINITY MAP

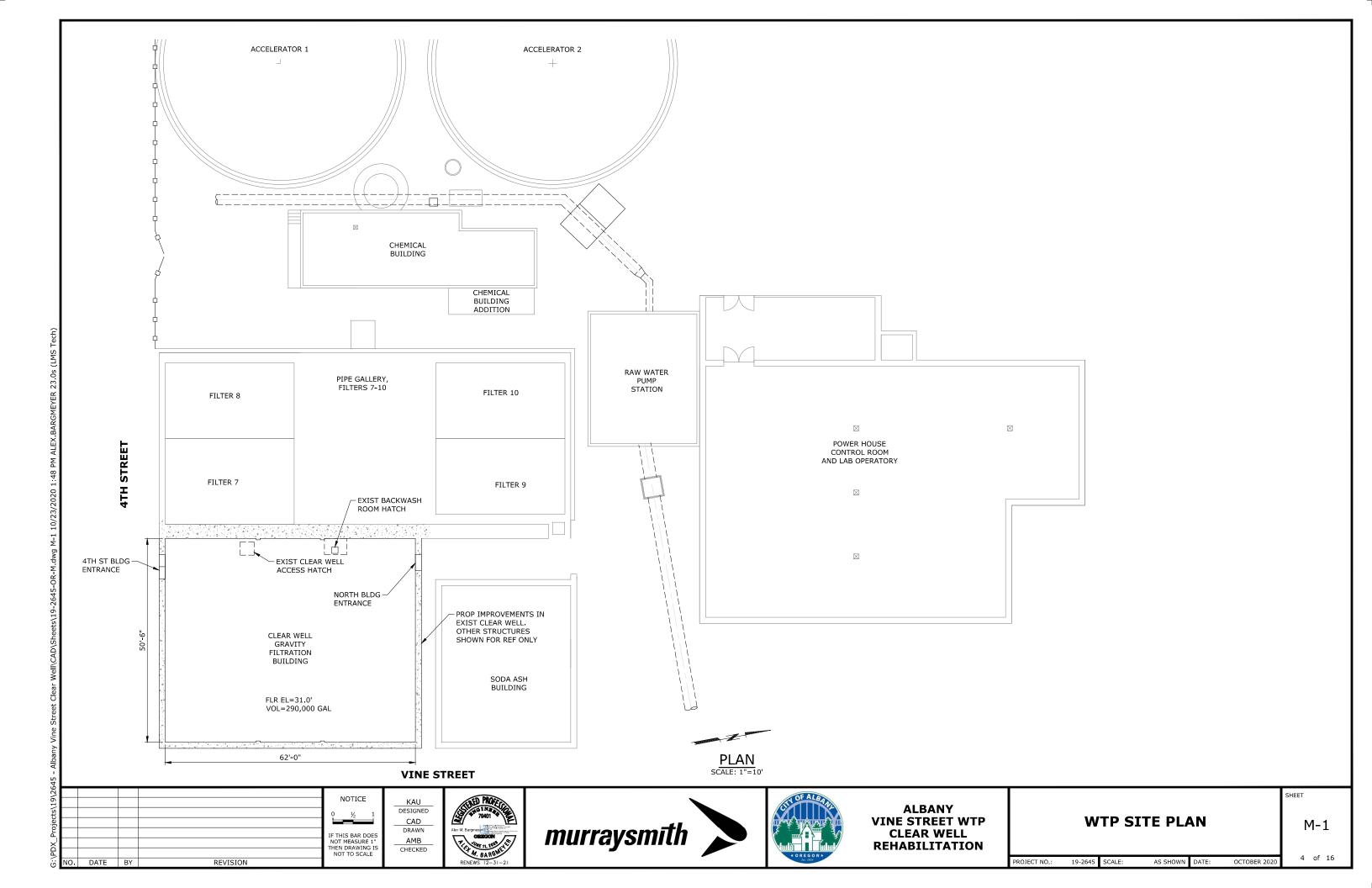


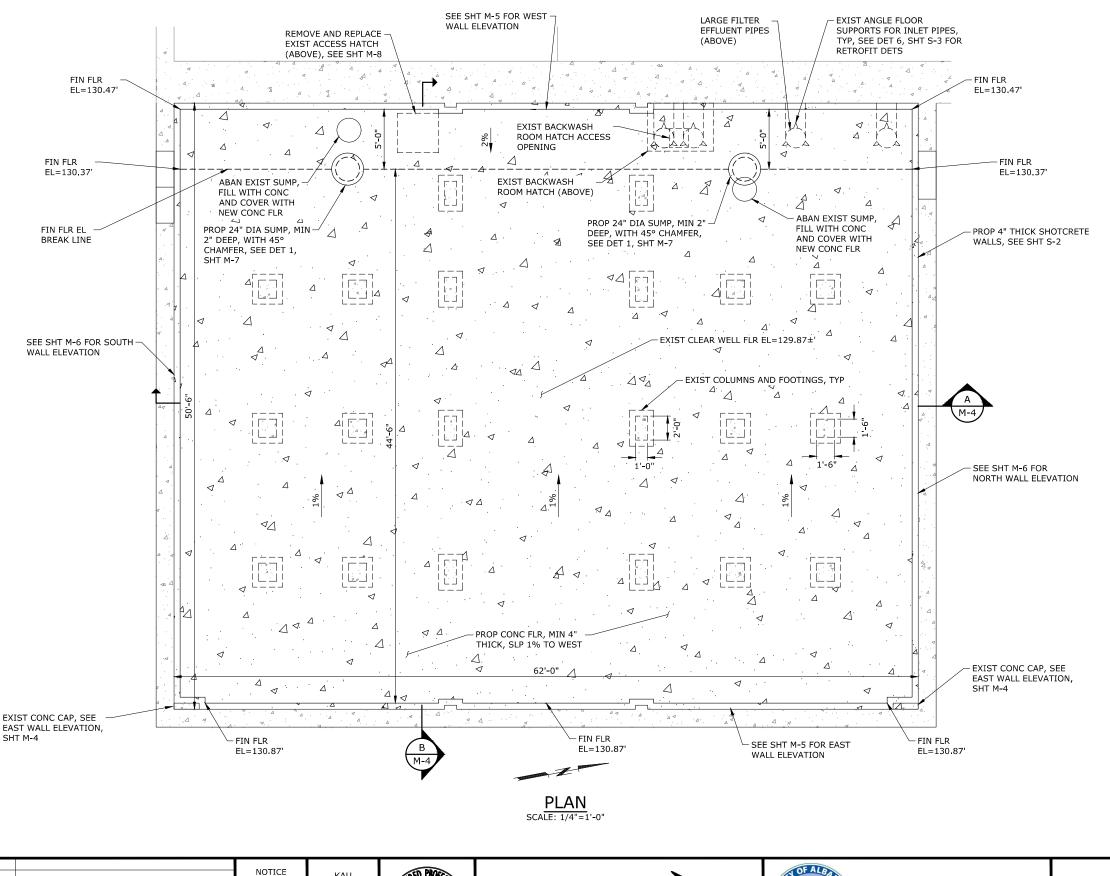
ATTENTION: OREGON LAW REQUIRES THE CONTRACTOR TO FOLLOW THE RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER, THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. THE CONTRACTOR MAY OBTAIN COPIES OF THE RULES BY CALLING THE UTILITY NOTIFICATION CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS





@ AASHTO	AT AMERICAN ASSOCIATION OF STATE	CMP CMU	CORRUGATED METAL PIPE CONCRETE MASONRY UNIT	FO FOC	FIBER OPTIC FACE OF CONCRETE	KW KWY	KILOWATT KEYWAY	PRESS PRKG	PRESSURE PARKING	TDH TEMP	TOTAL DYNAMIC HEAD TEMPERATURE / TEMPORARY
AASHIC	HIGHWAY & TRANSPORTATION OFFICIALS	CND	CONDUIT	FOF	FACE OF FINISH	KVVY		PROP	PROPERTY	T&G	TONGUE & GROOVE
AB ABAN(D	ANCHOR BOLT	COL	CLEANOUT	FOM FOS	FACE OF MASONRY FACE OF STUDS	L LAB	LENGTH LABORATORY	PRV PS	PRESSURE REDUCING VALVE PUMP STATION	THK	THICK / THICKNESS
ABAN(D) ABANDON(ED) ACRYLONITRILE BUTADIENE STYRENE	COL	COLUMN COMBINATION	FPM	FEET PER MINUTE	LAV	LAVATORY	PSIG	POUNDS PER SQUARE INCH GAUGE	THRD THRU	THREAD (ED) THROUGH
ABV	ABOVE / ALCOHOL BY VOLUME	CONC	CONCRETE	FPS	FEET PER SECOND	LB	POUND	PSL	PIPE SLEEVE	TP	TEST PIT / TOP OF PAVEMENT /
AC ACP	ASPHALTIC CONCRETE ASPHALTIC CONCRETE PAVING	CONN CONST	CONNECTION CONSTRUCTION	FRP FT	FIBERGLASS REINFORCED PLASTIC FEET / FOOT	LF LIN	LINEAR FOOT LINEAL	PSPT PT	PIPE SUPPORT POINT OF TANGENCY	TRANS	TURNING POINT TRANSITION
ADJ	ADJUSTABLE	CONT	CONTINUOUS / CONTINUATION	FTG	FOOTING	LN	LANE	PTVC	POINT OF TANGENCY ON VERTICAL	TSP	TRI-SODIUM PHOSPHATE
ADJC	ADJACENT	CONTR	CONTRACT(OR)	FUT FXTR	FUTURE FIXTURE	LOC LONG	LOCATION LONGITUDINAL	PV	CURVE	TST	TOP OF STEEL
AFF AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	COORD COP	COORDINATE COPPER	FXIR	FIXTURE	LONG	LOW PRESSURE	PVC	PLUG VALVE POLYVINYL CHLORIDE	TW TYP	TOP OF WALL TYPICAL
AHR	ANCHOR	CORP	CORPORATION	G	GAS	LPT	LOW POINT	PVMT	PAVEMENT		
AL ALT	ALUMINUM ALTERNATE	CORR CP	CORRUGATED CONTROL POINT	GA GAL	GAUGE GALLON	LRG LS	LARGE LONG SLEEVE / LUMP SUM	PWR	POWER	UG UH	UNDERGROUND UNIT HEATER
AMP	AMPERE	CPLG	COUPLING	GALV	GALVANIZED	LT	LEFT	QTY	QUANTITY	UN	UNION
ANSI	AMERICAN NATIONAL STANDARDS	CPVC	CHLORINATED POLYVINYL CHLORIDE	GC	GROOVED COUPLING	LVL	LEVEL		PARTILIC	UON	UNLESS OTHERWISE NOTED
APPROX	INSTITUTE APPROXIMATE	CR CS	CRUSHED ROCK COMBINED SEWER	GFA GI	GROOVED FLANGE ADAPTER GALVANIZED IRON	LWL	LOW WATER LINE	RAD RC	RADIUS REINFORCED CONCRETE	USGS	UNITED STATES GEOLOGIC SURVEY
APPVD	APPROVED	CSP	CONCRETE SEWER PIPE	GIP	GALVANIZED IRON PIPE	MAN	MANUAL	RCP	REINFORCED CONCRETE PIPE	V	VENT / VOLT
APWA ARCH	AMERICAN PUBLIC WORKS ASSOCIATION ARCHITECTURAL	CT CTR	COURT	GJ GL	GRIP JOINT GLASS	MAT MAX	MATERIAL MAXIMUM	RD RDCR	ROAD / ROOF DRAIN REDUCER	VAC VB	VACUUM
ARCH	ARCHITECTURAL AIR RELEASE VALVE	CU	CENTER CUBIC	GLV	GLASS GLOBE VALVE	MCC	MOTOR CONTROL CENTER	REF	REFERENCE	VBOX	VACUUM BREAKER VALVE BOX
ASCE	AMERICAN SOCIETY OF CIVIL	CULV	CULVERT	GND	GROUND	MCP	MASTER CONTROL PANEL	REINF	REINFORCE(D)(ING)(MENT)	VC	VERTICAL CURVE
ASSN	ENGINEERS ASSOCIATION	CV CW	CONTROL VALVE CLOCKWISE / COLD WATER	GPD GPH	GALLONS PER DAY GALLONS PER HOUR	MECH MET	MECHANICAL METAL	REQ'D RESTR	REQUIRED RESTRAINED	VERT VFD	VERTICAL VARIABLE FREQUENCY DRIVE
ASSY	ASSEMBLY	CY	CUBIC YARDS	GPM	GALLONS PER MINUTE	MFR	MANUFACTURER	RFCA	RESTRAINED FLANGE COUPLING	VOL	VOLUME
ASTM	AMERICAN SOCIETY FOR TESTING	CYL	CYLINDER LOCK	GPS	GALLONS PER SECOND	MGD MH	MILLION GALLONS PER DAY MANHOLE	5.4	ADAPTER	VCP	VITRIFIED CLAY PIPE
ATM	& MATERIALS ATMOSPHERE	l _D	DRAIN	GR GR LN	GRADE GRADE LINE	MIN	MINIMUM	RM RND	ROOM ROUND	VTR	VENT THROUGH ROOF
AUTO	AUTOMATIC	DC	DIRECT CURRENT	GRTG	GRATING	MIPT	MALE IRON PIPE THREAD	RO	ROUGH OPENING	w	WATER
AUX AVE	AUXILIARY AVENUE	DEFL DEQ	DEFLECTION DEPARTMENT OF ENVIRONMENTAL OHALITY	GV GRVL	GATE VALVE GRAVEL	MISC MJ	MISCELLANEOUS MECHANICAL JOINT	R/W RPBPD	RIGHT-OF-WAY REDUCED PRESSURE BACKFLOW	W/ W/IN	WITH WITHIN
AVE	AVERAGE	DEQ	DEPARTMENT OF ENVIRONMENTAL QUALITY DETAIL	GKVL	GYPSUM	MON	MONUMENT / MONOLITHIC	KPDPD	PREVENTION DEVICE	W/IN W/O	WITHIN
⊋ AWWA	AMERICAN WATER WORKS ASSOCIATION	DI	DUCTILE IRON			MOT	MOTOR	RPM	REVOLUTIONS PER MINUTE	W/W	WALL TO WALL
D B&S	BELL & SPIGOT	DIA DIM	DIAMETER DIMENSION	HB HC	HOSE BIBB HOLLOW CORE	MP MSL	MILEPOST MEAN SEAL LEVEL	RR RST	RAILROAD REINFORCED STEEL	WD WF	WOOD WIDE FLANGE
<u>δ</u> BC	BOLT CIRCLE	DIR	DIRECTION	HDPE	HIGH DENSITY POLYETHYLENE	MTD	MOUNTED	RT	RIGHT	WH	WATER HEATER
∃ BD	BOARD	DIST	DISTANCE	HDR HDWE	HEADER HARDWARE	l _{NA}	NOT APPLICABLE	CALV	CALVACE	WI	WROUGHT IRON
BETW BF	BETWEEN BOTH FACE	DN DR	DOWN DRIVE	HGR	HANGER	NAVD	NORTH AMERICAN VERTICAL DATUM	SALV SAN	SALVAGE SANITARY	WM WP	WATER METER WORKING POINT / WATERPROOFING
BFD	BACKFLOW PREVENTION DEVICE	DS	DOWNSPOUT	HGT	HEIGHT	NC	NORMALLY CLOSED	SC	SOLID CORE	WS	WATER SERVICE
H BFILL BFV	BACKFILL BUTTERFLY VALVE	DWG DWL	DRAWING DOWEL	HH HM	HANDHOLD HOLLOW METAL	NF NIC	NEAR FACE NOT IN CONTRACT	SCHED SD	SCHEDULE STORM DRAIN	WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
BHP	BRAKE HORSEPOWER	DWV	DRAIN WASTE AND VENT	HMAC	HOT MIX ASPHALT CONCRETE	NO / NO.		SDL	SADDLE	WT	WEIGHT
BKGD	BACKGROUND	DWY	DRIVEWAY	HNDRL	HANDRAIL	NOM	NOMINAL	SDR	STANDARD DIMENSION RATIO	WTP	WATER TREATMENT PLANT
M BLDG ★ BLK	BUILDING BLOCK	E / ELEC	ELECTRICAL	HOA HOR	HAND-OFF-AUTO HAND-OFF-REMOTE	NORM NRS	NORMAL NON-RISING STEM	SECT SHLDR	SECTION SHOULDER	WTRT WWF	WATERTIGHT WELDED WIRE FABRIC
별 BLVD	BOULEVARD	EA	EACH	HORIZ	HORIZONTAL	NTS	NOT TO SCALE	SHT	SHEET	WWTF	WASTEWATER TREATMENT FACILITY
▼ BM E BMP	BENCHMARK / BEAM BEST MANAGEMENT PRACTICES	ECC EF	ECCENTRIC EACH FACE	HP HPG	HIGH PRESSURE / HORSEPOWER HIGH PRESSURE GAS	0 TO 0	OUT TO OUT	SIM SLP	SIMILAR	WWTP	WASTEWATER TREATMENT PLANT
S BO	BLOW-OFF	EL	ELEVATION	HPT	HIGH POINT	OAR	OREGON ADMINISTRATIVE RULES	SLV	SLOPE SLEEVE	X SECT	CROSS SECTION
BOC	BACK OF CURB	ELB	ELBOW	HR	HOUR	oc	ON CENTER	SOLN	SOLUTION	XFMR	TRANSFORMER
BS BSMT	BOTH SIDES BASEMENT	ENCL EOP	ENCLOSURE EDGE OF PAVEMENT	HSB HV	HIGH STRENGTH BOLT HOSE VALVE	OD ODOT	OUTSIDE DIAMETER OREGON DEPARTMENT OF	SP SPCL	SOIL PIPE / SEWER PIPE SPECIAL	YD	YARD DRAIN / YARD
8 BTF	BOTTOM FACE	EQ	EQUAL	HVAC	HEATING, VENTILATION, AIR		TRANSPORTATION	SPEC(S)	SPECIFICATION(S)	YH	YARD HYDRANT
BTU	BRITISH THERMAL UNIT	EQL SP	EQUALLY SPACED	1,040	CONDITIONING	OF OPNG	OVERFLOW / OUTSIDE FACE	SPG	SPACING	YR	YEAR
701 BW	BALL VALVE BOTH WAYS	EQUIP ESMT	EQUIPMENT EASEMENT	HWL HWY	HIGH WATER LINE HIGHWAY	OPNG	OPENING OPPOSITE	SPL SPRT	SPOOL SUPPORT	ZN	ZINC
ကု		EW	EACH WAY	HYD	HYDRANT	ORIG	ORIGINAL	SQ	SQUARE	-"	_ 5
© C TO C	CELSIUS CENTER TO CENTER	EXC EXIST	EXCAVATE EXISTING	HYDR	HYDRAULIC	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	SQ FT	SQUARE FOOT SQUARE INCH		
	NS CALIFORNIA DEPARTMENT OF	EXP	EXPANSION	I&C	INSTRUMENTATION & CONTROL	OVHD	OVERHEAD	SQ IN SQ YD	SQUARE INCH SQUARE YARD		
A C 227	TRANSPORTATION	EXP BT	EXPANSION BOLT	IAW	IN ACCORDANCE WITH	DO: TO	DDOCECC 9. INCTDUMENTATION	SS	SANITARY SEWER		
CARV CATV	COMBINATION AIR RELEASE VALVE CABLE TELEVISION	EXP JT EXT	EXPANSION JOINT EXTERIOR	ID IE	INSIDE DIAMETER INVERT ELEVATION	P&ID	PROCESS & INSTRUMENTATION DIAGRAM	SST	STAINLESS STEEL STREET		
24 CB	CATCH BASIN			IF	INSIDE FACE	PC	POINT OF CURVE	STA	STATION		
CCM CCA	CONCRETE CYLINDER PIPE COUNTER CLOCKWISE	F F TO F	FAHRENHEIT FACE TO FACE	IMPVT IN	IMPROVEMENT INCH	PCC PCVC	POINT OF COMPOUND CURVE POINT OF CURVATURE ON	STD	STANDARD STEEL		
CDOT	COLORADO DEPARTMENT OF	FAB	FABRICATE	INCC	INCH INCLUDE(D)(ING)		VERTICAL CURVE	STL STOR	STEEL STORAGE		
eet	TRANSPORTATION	FB	FLAT BAR	INFL	INFLUENT	PE	PLAIN END	STR	STRAIGHT		
CFM CFS	CUBIC FEET PER MINUTE CUBIC FEET PER SECOND	FCA FCO	FLANGED COUPLING ADAPTER FLOOR CLEANOUT	INJ INSTL	INJECTION INSTALLATION / INSTALL	PERF PERM	PERFORATED PERMANENT	STRUCT SUBMG	STRUCTURE / STRUCTURAL SUBMERGED		
K CHAN	CHANNEL	FD	FLOOR DRAIN	INSUL	INSULATION	PERP	PERPENDICULAR	SUCT	SUCTION		
CHEM	CHEMICAL	FDN	FOUNDATION	INTER	INTERCEPTOR	PG PH	PRESSURE GAUGE PIPE HANGER	sv	SOLENOID VALVE		
⊕ CHFR CHKV	CHAMFER CHECK VALVE	FEXT FF	FIRE EXTINGUISHER FAR FACE	INTR INV	INTERIOR INVERT	PH	POINT OF INTERSECTION	S/W SWD	SIDEWALK SIDEWATER DEPTH		
E CI	CAST IRON	FGL	FIBERGLASS	IP	IRON PIPE	PIVC	POINT OF INTERSECTION ON	SWGR	SWITCH GEAR		
ਹ CIPC ਰ CIPC	CAST IRON PIPE CAST IN PLACE CONCRETE	FH FIN	FIRE HYDRANT FINISH(ED)	IPT IR	IRON PIPE THREAD IRON ROD	PI OP D/I	VERTICAL CURVE PROPERTY LINE / PLATE / PLASTIC	SYMM	SYMMETRICAL		
CISP	CAST IRON SOIL PIPE	FIN	FINISH(ED) FEMALE IRON PIPE THREAD	IRRIG	IRRIGATION	PLBG	PLUMBING	SYS	SYSTEM		
ري Ci	CONSTRUCTION JOINT	FITG	FITTING	ITD	IDAHO TRANSPORTATION DEPARTMENT	PNL	PANEL POINT OF CURVATURE		TELEPHONE		
CL OR C	/L CENTER LINE CHLORINE	FL FLEX	FLOOR LINE FLEXIBLE	Τι	JOINT	POC POLY	POINT OF CURVATURE POLYETHYLENE	T&B TAN	TOP & BOTTOM TANGENCY		
≧ CLG	CEILING	FLG	FLANGE	JUNC	JUNCTION	PP	POWER POLE	TB	THRUST BLOCK		
<u>a</u> Cri	CONTROL JOINT	FLL	FLOOR	IZDI	VICK DI ATE	PRC	POINT OF REVERSE CURVATURE	твм	TEMPORARY BENCHMARK		
CLR CLSM	CLEAR CONTROLLED LOW STRENGTH MATERIAL	FLR FM	FLOOR FORCE MAIN	KPL KVA	KICK PLATE KILOVOLT AMPERE	PRCST PREP	PRECAST PREPARATION	TC TCE	TOP OF CONCRETE / TOP OF CURB TEMPORARY CONSTRUCTION EASEMENT		
645	The second secon	<u> </u>						1 '6	. 2. II STURY CONSTRUCTION EASEMENT		
9/2			NOTICE KAU	OFE .	_		OF ALBA				SHEET
[S/1			DESIGNED DESIGNED	OKE SERVICE AND ADDRESS OF THE PARTY OF THE			AL	BANY	GENERAL	NOTE	SAND
jec				· E	_4 =		VINE ST	REET W	ITP I		\sim 2
Pro			IF THIS BAR DOES DRAWN Alex M. Bargmeyer College	A CONTRACTOR OF THE PARTY OF TH	murraysmith			R WELL	ABBRE	ATALI(ONS G S
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ii NO. DAT	E BY REVISION		NOT TO SCALE NOT TO SCALE RENEWS 12:	-31-21	_		* O R E G O N * hec. 1864		PROJECT NO.: 19-2645 SCALE:	AS SHOW	N DATE: OCTOBER 2020 3 of 16
U NO. DAI	E DI KEVISION		KENEWS 12-	31 21					15 2045 SCALE.	, to 5110W	331000112020





SHEET NOTES:

- 1. DIMENSION AND LOCATION OF CLEAR WELL STRUCTURAL COMPONENTS AND APPURTENANCES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS PRIOR TO CONSTRUCTION OF CONCRETE WALLS AND FLOOR AND EPOXY COATING OF COLUMNS AND SUBMERGED AREAS. NOTIFY ENGINEER OF POTENTIAL CONFLICTS TO ALLOW FOR CHANGES IN DESIGN AS REQUIRED.
- 2. REMOVE AND REPLACE EXISTING ACCESS HATCH AND LADDER WITH NEW STAINLESS STEEL HATCH AND LADDER, SEE DETAILS ON SHEET
- 3. MECHANICALLY REMOVE MINERAL BUILD UP FROM WALLS NEAR BACKWASH ROOM HATCH, AS REQUIRED TO PROPERLY ACCESS CONCRETE SUBSTRATE FOR PROPER INSTALLATION OF SHOTCRETE AND EPOXY COATING.
- 4. MINIMUM FLOOR THICKNESS SHALL BE 4 INCHES. PERIMETER HYDROPHILIC WATER STOP MAY INCREASE MINIMUM COVER REQUIREMENTS IN CERTAIN LOCATIONS. REFER TO STRUCTURAL
- 5. CONTRACTOR SHALL REMOVE ALL STANDING WATER AND ALLOW TIME AND MEANS TO ASSESS FOR ACTIVE LEAKS. ALL ACTIVE LEAKS SHALL BE MITIGATED USING EPOXY INJECTIONS OR OTHER METHODS PRIOR TO SHOTCRETE APPLICATION.
- 6. IF CLEARANCE BETWEEN EXISTING PUMP INLET BELLS AND NEW FLOOR IS LESS THAN MINIMUM ALLOWABLE CLEARANCE FOR PUMP SUCTION, A DEPRESSION SHALL BE INSTALLED IN PROPOSED FLOOR TOPPING SLAB. SEE DETAIL 2, SHEET M-7 FOR ADDITIONAL DETAILS.

PRELIMINARY CONSTRUCTION SEQUENCING:

- 1. PRELIMINARY CONSTRUCTION SEQUENCE IS PROVIDED FOR REFERENCE AND TO OUTLINE THE KEY STEPS FOR PROJECT COMPLETION. THE CONTRACTOR SHALL PROVIDE PROPOSED CONSTRUCTION SEQUENCE FOR REVIEW.
- 2. DEMOLISH AND TEMPORARILY REMOVE ALL NECESSARY APPURTENANCES TO FACILITATE WORK INCLUDING BUT NOT LIMITED TO THE EXISTING LADDER, ACCESS HATCH, CHEMICAL FEED PIPING, AND ACCESS HATCH PIPING.
- 3. PREPARE EXISTING CONCRETE SURFACE AND INSTALL SHOTCRETE WALLS.
- 4. PREPARE EXISTING CONCRETE SURFACE AND INSTALL CONCRETE
- 5. PREPARE EXISTING CONCRETE SURFACE AND INSTALL EPOXY COATING AT COLUMNS AND SUBMERGED CEILING.
- 6. INSTALL NEW LADDER AND HATCH
- 7. INSTALL NEW CHEMICAL FEED AND ALL INCIDENTAL PIPING. COORDINATE WITH CITY CREWS TO TEST PIPING, DISINFECT, AND PLACE CLEAR WELL BACK ONLINE.

SHEET

CLEAR WELL FLOOR PLAN

M-2

19-2645 SCALE: OCTOBER 20:

5 of 16

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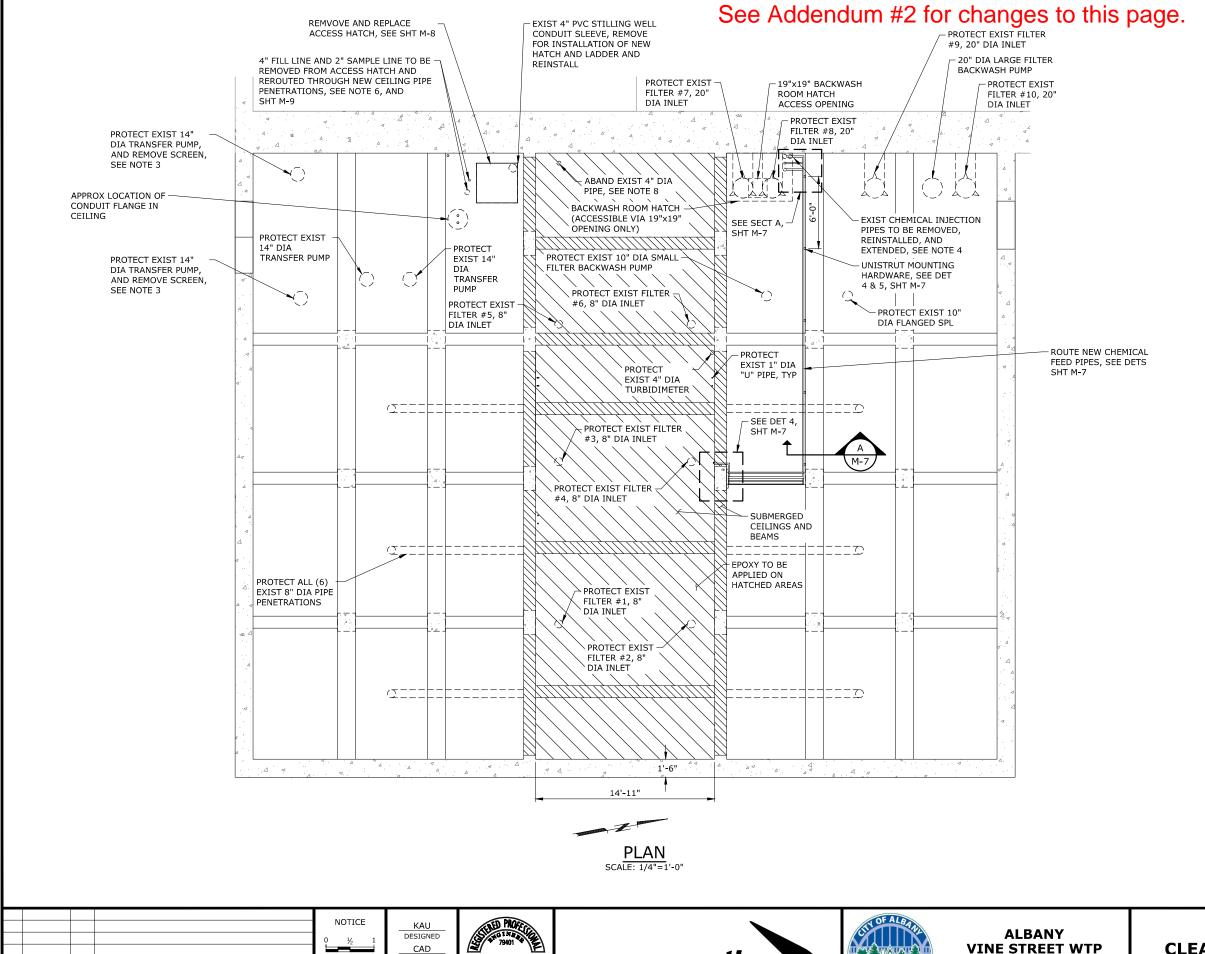
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VINE STREET WTP CLEAR WELL REHABILITATION

ALBANY



murraysmith

CAD

DRAWN

AMB

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SHEET NOTES:

- 1. ALL AREAS IDENTIFIED ON PLANS TO BE EPOXY COATED SHALL BE SURFACE PREPARED AND COATED WITH NSF 61 APPROVED COATING PER THE SPECIFICATIONS. THESE AREAS INCLUDE BUT MAY NOT BE LIMITED TO: ALL COLUMNS AND SUBMERGED CEILINGS AND BEAMS FROM ABOVE THE PROPOSED CONCRETE FLOOR TO THE CEILING, OR THE HIGHEST VERTICAL SURFACE, WHERE BEAMS ARE PRESENT. GRINDING DOWN SHARP EDGES AND BUMPS IN CONCRETE TO A 3/6" MIN RADIUS AND FILLING ROCK POCKETS LARGER THAN ½" WITH GROUT SHALL BE INCLUDED IN SURFACE PREPARATION. ENGINEER TO INSPECT COMPLETION OF SURFACE PREPARATION PRIOR TO INSTALLATION OF
- 2. MECHANICALLY REMOVE EFFLORESCENCE AND MINERAL BUILD UP FROM WALLS NEAR BACKWASH ROOM HATCH, AS REQUIRED TO PROPERLY ACCESS CONCRETE SUBSTRATE FOR PROPER INSTALLATION OF SHOTCRETE AND EPOXY COATING.
- 3. DEMOLISH EXISTING CORRODED PUMP INTAKE SCREENS.
- 4. REMOVE, REINSTALL, AND EXTEND CHEMICAL FEED PIPING AT BACKWASH ROOM HATCH, PER DETAIL 4 ON SHEET M-7, FURNISH AND INSTALL PIPE SPOOLS, FITTINGS, AND PIPE SUPPORT BRACKETS AS
- 5. COORDINATE ON SITE WITH OWNER AND ENGINEER FOR DEMOLITION OF ANY ADDITIONAL MISCELLANEOUS PIPING.
- 6. REMOVE AND REINSTALL CONDUITS AT ACCESS HATCH AS NEEDED
- 7. DIMENSIONS AND LOCATION OF CLEAR WELL STRUCTURE COMPONENTS AND APPURTENANCES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS PRIOR TO CONSTRUCTION OF CONCRETE WALLS AND FLOOR AND EPOXY COATING OF COLUMNS AND SUBMERGED AREAS, NOTIFY ENGINEER OF POTENTIAL CONFLICTS TO ALLOW FOR CHANGES IN DESIGN AS REQUIRED.
- 8. TO ABANDON MISCELLANEOUS PIPING, GRIND DOWN PIPE 1/4-INCH INTO CONCRETE AND FILL WITH DRY PACK NON-SHRINK GROUT. COVER GROUT WITH A POLYMER-MODIFIED, TROWEL-GRADE CEMENTITIOUS MORTAR SUCH AS SIKATOP-122, SIKATOP-123, OR APPROVED EQUAL.

SHEET

CLEAR WELL CEILING PLAN

CLEAR WELL

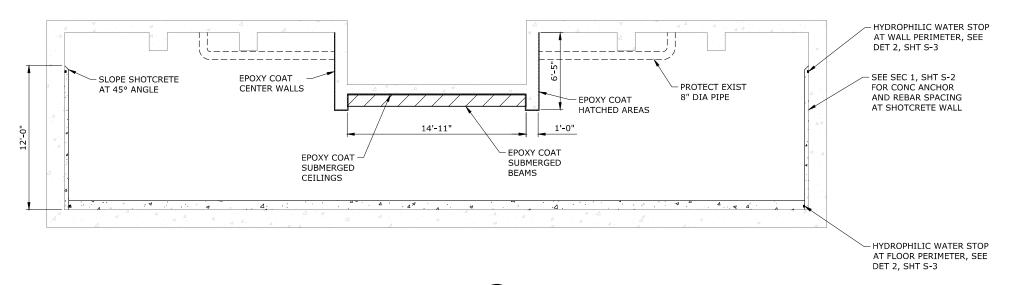
REHABILITATION

M-3

19-2645 SCALE: AS SHOWN DATE:

OCTOBER 202

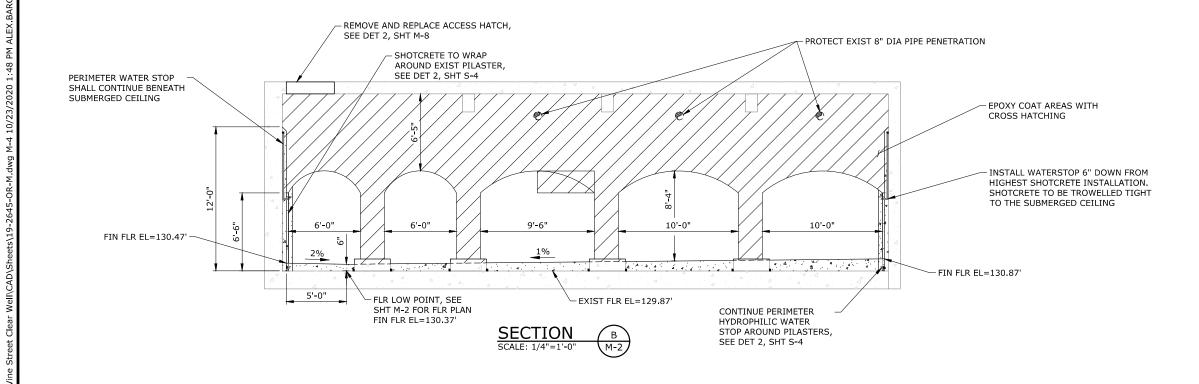
See Addendum #2 for changes to this page.



SECTION

SHEET NOTES

- 1. ALL AREAS IDENTIFIED ON PLANS TO BE EPOXY COATED SHALL BE SURFACE PREPARED AND COATED WITH NSF 61 APPROVED COATING PER THE SPECIFICATIONS. THESE AREAS INCLUDE BUT MAY NOT BE LIMITED TO: ALL COLUMNS AND SUBMERGED CEILINGS AND BEAMS FROM ABOVE THE PROPOSED CONCRETE FLOOR TO THE CEILING, OR THE HIGHEST VERTICAL SURFACE, WHERE BEAMS ARE PRESENT. GRINDING DOWN SHARP EDGES AND BUMPS IN CONCRETE TO A $\frac{1}{3}$ 6" MIN RADIUS AND FILLING ROCK POCKETS LARGER THAN $\frac{1}{2}$ " WITH GROUT SHALL BE INCLUDED IN SURFACE PREPARATION. ENGINEER TO INSPECT COMPLETION OF SURFACE PREPARATION PRIOR TO INSTALLATION OF COATING.
- 2. FURNISH AND INSTALL HYDROPHILIC WATER STOP AT FLOOR PERIMETER, AND COLUMN FOOTING PERIMETERS, AND TOP OF SHOTCRETE WALL PERIMETER. SEE STRUCTURAL SHEETS FOR DETAILS INCLUDING MINIMUM COVER REQUIREMENTS.
- 3. DIMENSIONS AND LOCATION OF CLEAR WELL STRUCTURE COMPONENTS AND APPURTENANCES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS PRIOR TO CONSTRUCTION OF CONCRETE WALLS AND FLOOR AND EPOXY COATING OF COLUMNS AND SUBMERGED AREAS. NOTIFY ENGINEER OF POTENTIAL CONFLICTS TO ALLOW FOR CHANGES IN DESIGN AS REQUIRED.



NOTICE

NOTICE

Use 1

IF THIS BAR DOES NOT MEASURE 1*
THEN DRAWING IS NOT TO SCALE

REVISION

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DESIGNED
CAD
DRAWN
AMB
CHECKED







ALBANY
VINE STREET WTP
CLEAR WELL
REHABILITATION

CLEAR WELL BUILDING SECTIONS

M-4

SHEET

ECT NO.: 19-2645 SCALE: AS SHOWN DATE: OCTOBER 2020

EXIST ACCESS HATCH, -PROTECT EXIST - PROTECT EXIST REMOVE & REPLACE, BACKWASH ROOM FILTER #8 INLET SEE DET 4, SHT M-8 EXIST (4) CHEMICAL FEED PIPES, SEE NOTE 4 EXIST LADDER. REMOVE & REPLACE, PROTECT EXIST PROTECT EXIST MIN SEE DET 2, SHT M-8 FILTER #10 INLET PERIMETER WATERSTOP, PROTECT EXIST SEE DET 1, SHT S-3 FILTER #7 INLET ABAND EXIST 1" DIA STL CHEMICAL FEED PIPE, SEE REMOVE AND REROUTE 4"SS FILLING LINE AND 2"PVC SAMPLING LINE, CORE NEW HOLES THROUGH CEILING, PROTECT EXIST 20" DIA LARGE FILTER ⊸PROP CONĆ TOPPING SLAB BACKWASH PUMP EXIST PIPE SUPPORT BRACKETS, SEE └─ EXIST 4" STILLING WELL, REMOVE 22'-2" DET 6, SHT S-3 FOR REHAB DETAILS AND REINSTALL AS REQUIRED WEST WALL ELEVATION

> HYDROPHILIC WATER STOP, TYP EXIST CONC CAP -62'-0"

> > EAST WALL ELEVATION

NOTICE NOT MEASURE 1 THEN DRAWING I NOT TO SCALE

DESIGNED CAD DRAWN AMB







ALBANY VINE STREET WTP CLEAR WELL REHABILITATION

CLEAR WELL WALL ELEVATIONS (EAST AND WEST)

SHEET NOTES:

SHEETS FOR DETAILS.

SUPPORT BRACKETS AS REQUIRED.

1. DIMENSIONS AND LOCATION OF CLEAR WELL STRUCTURE

ALLOW FOR CHANGES IN DESIGN AS REQUIRED.

COMPONENTS AND APPURTENANCES ARE APPROXIMATE, CONTRACTOR SHALL FIELD VERIFY DIMENSIONS PRIOR TO CONSTRUCTION OF

CONCRETE WALLS AND FLOOR AND EPOXY COATING OF COLUMNS AND

SUBMERGED AREAS, NOTIFY ENGINEER OF POTENTIAL CONFLICTS TO

3. REMOVE AND REPLACE EXISTING ACCESS HATCH AND LADDER WITH

NEW STAINLESS STEEL HATCH AND LADDER, SEE DETAILS ON SHEET

BACKWASH ROOM HATCH, PER DETAIL 4 ON SHEET M-7. FURNISH AND INSTALL PIPE SPOOLS, FITTINGS, AND PIPE SUPPORT BRACKETS AS

5. REMOVE AND REROUTE 4-INCH FILLING LINE AND 2-INCH SAMPLING LINE PIPING AT ACCESS HATCH FOR OSHA COMPLIANCE. CORE THROUGH CEILING OF CLEAR WELL ADJACENT TO HATCH PER SHEET $\mbox{M-9.}$ FURNISH AND INSTALL PIPE SPOOLS, FITTINGS, AND PIPE

6. TO ABANDON MISCELLANEOUS PIPING, GRIND DOWN PIPE 1/4-INCH INTO CONCRETE AND FILL WITH DRY PACK NON-SHRINK GROUT. COVER GROUT WITH A POLYMER-MODIFIED, TROWEL-GRADE CEMENTITIOUS MORTAR SUCH AS SIKATOP-122, SIKATOP-123, OR APPROVED EQUAL.

4. REMOVE, REINSTALL, AND EXTEND CHEMICAL FEED PIPING AT

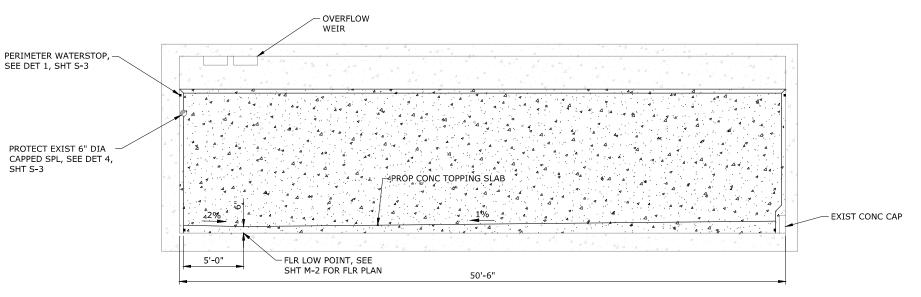
2. MINIMUM FLOOR THICKNESS SHALL BE 4 INCHES. PERIMETER HYDROPHILIC WATER STOP MAY INCREASE MINIMUM COVER REQUIREMENTS IN CERTAIN LOCATIONS. REFER TO STRUCTURAL

M-5

SHEET

19-2645 SCALE: AS SHOWN DATE: 8 of 16

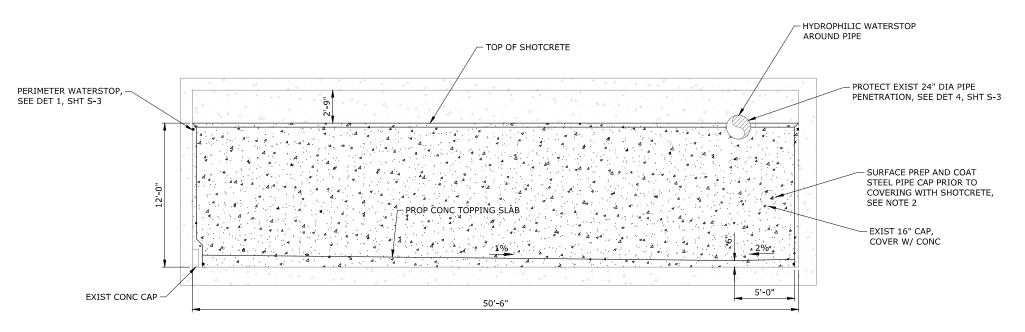
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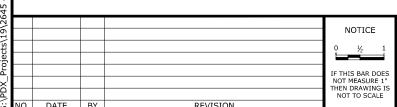
NORTH WALL ELEVATION

SHEET NOTES:

- 1. DIMENSIONS AND LOCATION OF CLEAR WELL STRUCTURE COMPONENTS AND APPURTENANCES ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS PRIOR TO CONSTRUCTION OF CONCRETE WALLS AND FLOOR AND EPOXY COATING OF COLUMNS AND SUBMERGED AREAS. NOTIFY ENGINEER OF POTENTIAL CONFLICTS TO ALLOW FOR CHANGES IN DESIGN AS REQUIRED.
- 2. COVER EXISTING STEEL PIPE CAPS FLUSH WITH WALL, WITH SHOTCRETE AS REQUIRED. STEEL PIPE CAPS SHALL BE SURFACE PREPARED WITH SIKA ARMATEC-110 EPOCEM, OR APPROVED EQUAL. SEE SHEET S-2. CONTRACTOR SHALL KEEP ACCURATE RECORDS OF ABANDONED PIPE CAP LOCATIONS AND PROVIDE AS-BUILT INFORMATION TO THE ENGINEER.



SOUTH WALL ELEVATION SCALE: 1/4" = 1'-0"









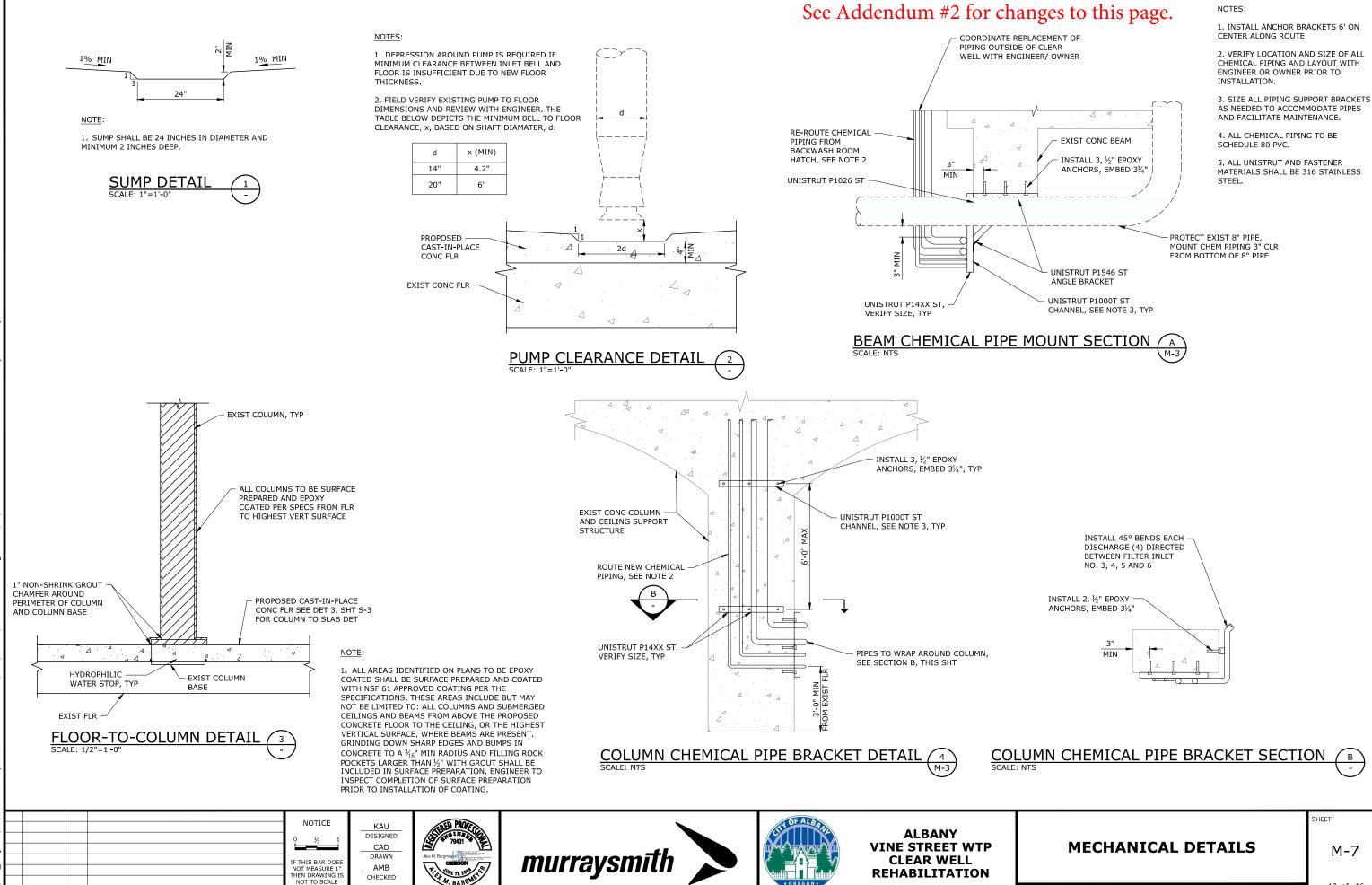


ALBANY
VINE STREET WTP
CLEAR WELL
REHABILITATION

CLEAR WELL WALL ELEVATIONS (NORTH AND SOUTH)

M-6

NO.: 19-2645 SCALE: AS SHOWN DATE: OCTOBER



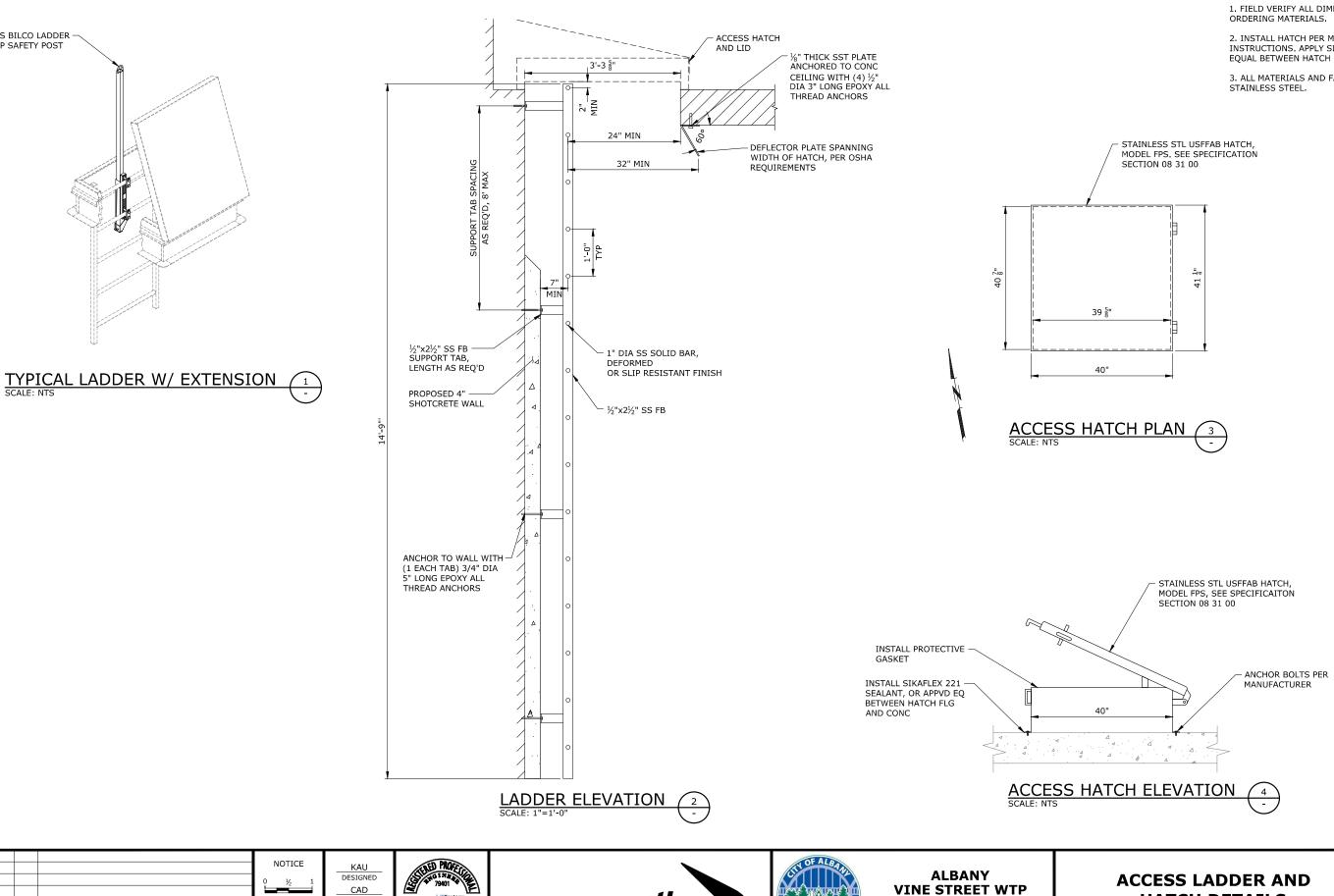
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19-2645

SCALE:

AS SHOWN DATE:

OCTOBER 20:



murraysmith

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SS BILCO LADDER -

UP SAFETY POST

1. FIELD VERIFY ALL DIMENSIONS PRIOR TO

2. INSTALL HATCH PER MANUFACTURER INSTRUCTIONS. APPLY SIKAFLEX 221, OR APPROVED EQUAL BETWEEN HATCH FLANGE AND CONCRETE.

3. ALL MATERIALS AND FASTENERS SHALL BE 316 STAINLESS STEEL.

SHEET

OCTOBER 202

HATCH DETAILS

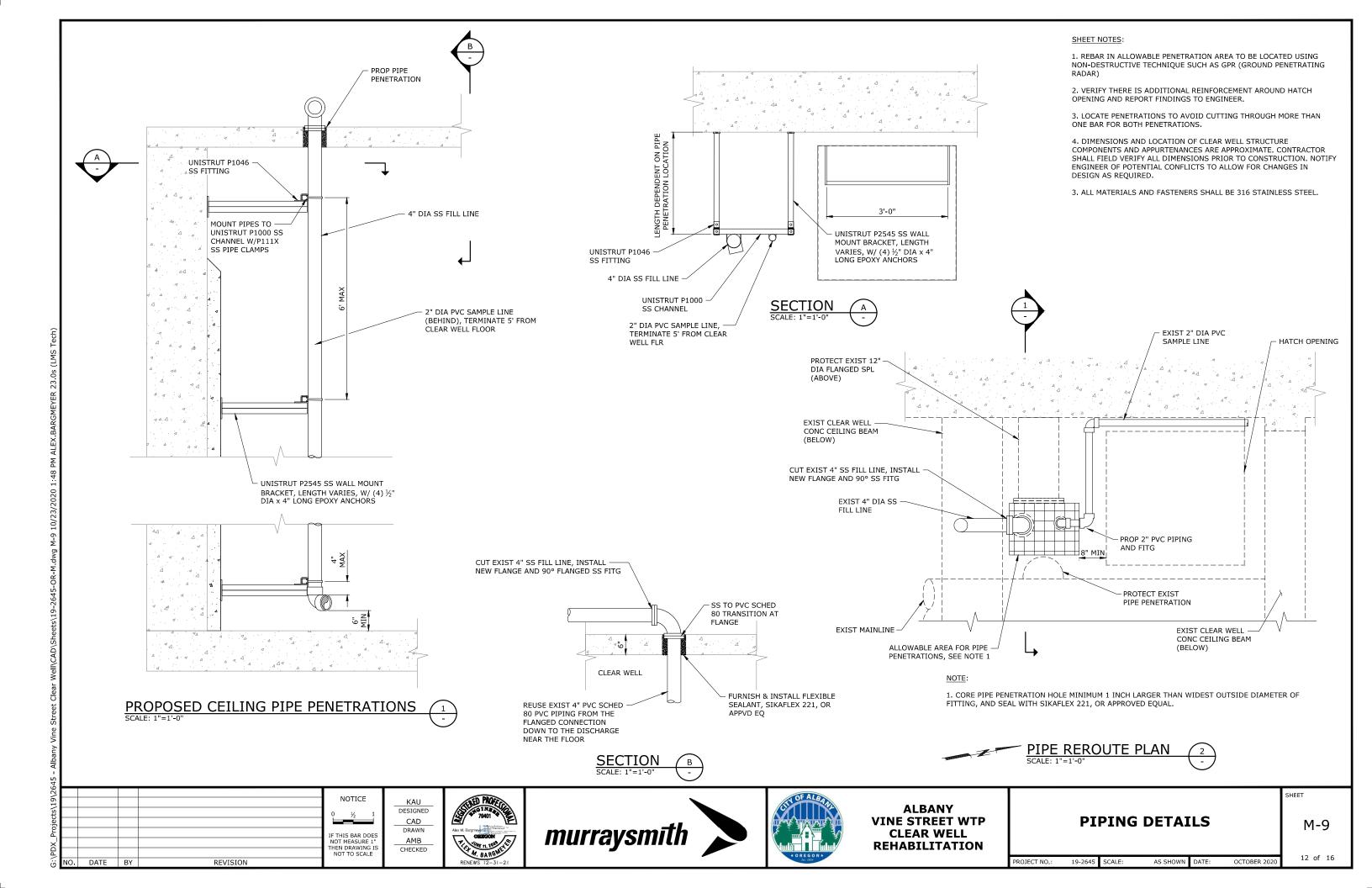
AS SHOWN DATE:

19-2645 SCALE:

CLEAR WELL

REHABILITATION

M-8



STRUCTURAL SHEETS:

- S-1 GENERAL NOTES S-2 WALL SECTION & ELEVATION
- S-3 STRUCTURAL DETAILS
- S-4 STRUCTURAL DETAILS

GENERAL STRUCTURAL NOTES:

- THESE NOTES ARE GENERAL IN NATURE AND ARE INTENDED TO SET MINIMUM STANDARDS FOR CONSTRUCTION.
 THE CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH THE CONTRACT DOCUMENTS AND HAVE A COPY OF
 THEM ON SITE AT ALL TIMES.
- FOR ANY PORTION OF THE CONSTRUCTION WHICH THE CONTRACTOR IS UNABLE TO ASCERTAIN THE REQUIRED
 CONSTRUCTION OR WHERE CONFLICTS EXIST, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST ADDITIONAL
 INFORMATION (RFIs) AND/OR CLARIFICATIONS BEFORE CONSTRUCTION.
- 3. ALL WORK SHALL BE IN STRICT CONFORMANCE WITH THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE 2019 OREGON STRUCTURAL SPECIALTY CODE (OSSC). ALL BUILDING ELEMENTS AND COMPONENTS NOT SPECIFICALLY DETAILED IN THESE STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE FABRICATED AND CONSTRUCTED IN ACCORDANCE WITH THE MINIMUM STANDARDS CONTAINED IN THE IBC AS AMENDED BY THE STATE OF OREGON.
- 4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE CONSTRUCTION. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
- 5. THE CONTRACTOR, SUBCONTRACTORS AND SUPPLIERS SHALL ENSURE COORDINATION OF CONTRACTOR SUPPLIED/DESIGNED ELEMENTS AND DEFERRED SUBMITTALS WITH ALL DESIGN DISCIPLINES WITHIN THE CONSTRUCTION SET. COORDINATION SHALL IDENTIFY AND RECONCILE CONFLICTS BETWEEN THE CONTRACTOR SUPPLIED/DESIGNED ELEMENTS AND THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION AND DELIVERY TO THE PROJECT SITE. THE PROJECT ENGINEER SHALL BE NOTIFIED IF CONFLICTS EXIST.
- 5. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. METHODS, PROCEDURES, AND SEQUENCE OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD FOR THE STRUCTURE. PROVIDE SHORING AND/OR BRACING WHERE LOADS EXCEED DESIGN CAPACITY AND WHERE STRUCTURES HAVE NOT ATTAINED DESIGN STRENGTH.
- 8. CLADDING, WATERPROOFING, AND ARCHITECTURAL FEATURES ARE OUTSIDE THE STRUCTURAL SCOPE OF WORK. ANY DEPICTION OF SUCH FEATURES ON THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO BE USED FOR CONSTRUCTION. REPRESENTATION OF SUCH FEATURES ON THESE DRAWINGS MAY OR MAY NOT BE ACCURATE. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS.

JOB SITE CONDITIONS AND SAFETY:

1. CONTRACTOR AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE ENGINEER AND IT'S REPRESENTATIVE HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER.

DESIGN LOADS: PER 2018 IBC & 2019 OSSC

SHOTCRETE:

1. SHOTCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:

TYPE f'c w/c AIR
WALLS 4.000 psi 0.42 7.5%

- 2. SHOTCRETE SHALL BE APPLIED IN A STEADY, UNINTERRUPTED FLOW
- 3. SHOULD THE FLOW BECOME INTERMITTENT FOR ANY CAUSE, THE MACHINE OPERATOR SHALL DIRECT THE NOZZLE AWAY FROM THE WORK UNTIL IT AGAIN BECOMES CONSTANT OR SHUT OFF THE FLOW OF MATERIALS.
- 4. TO ENSURE PROPER PENETRATION AROUND REINFORCING, THE PROPER CONVEYANCE OF THE MATERIAL THROUGH THE HOSE, A 5-INCH TO 7-INCH SLUMP OF THE MORTAR AT THE PUMP IS RECOMMENDED (WET MIX ONLY).
- 5. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, THE MINIMUM SHOTCRETE COVER OVER ALL REINFORCING SHALL BE MINIMUM 1.5—INCH.
- 6. REBOUND MATERIALS MAY NOT BE REUSED IN ANY FORM FOR SHOTCRETE.
- 7. SHOTCRETE MAY BE APPLIED IN COLD WEATHER PROVIDED THE SURFACES ARE NOT FROZEN
- 8. THE TEMPERATURE DURING THE DAY MUST BE EXPECTED TO RISE TO AT LEAST 40°F AND THE NIGHT TEMPERATURE OF THE FIRST NIGHT AFTER THE SHOTCRETE APPLICATION MUST NOT BE EXPECTED TO DROP BELOW 32°F.
- 9. WHENEVER RAIN OR FROST HAS DAMAGED SHOTCRETE WHICH HAS NOT HAD A CHANCE TO SET UP, SUCH SHOTCRETE SHALL BE REMOVED AND REPLACED.
- 10. WALL SURFACES TO RECEIVE SMOOTH TROWEL FINISH.



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CONCRETE:

- ALL CONCRETE SHALL BE HARD ROCK CONCRETE MEETING REQUIREMENTS OF ACI-301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS". MIX PROPORTIONS SHALL BE PER ACI-301, METHOD 2 OR THE ALTERNATE PROCEDURE. SUBMIT MIX DESIGN FOR REVIEW BY STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- 2. STRUCTURAL CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:

<u>YPE f'c SLUMP w/c Al</u> SLABS 4,000 psi 1-4" 0.45 0%

- ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 6% (±) 1% AIR ENTRAINMENT BY VOLUME. AIR ENTRAINMENT SHALL BE IN CONFORMANCE WITH ASTM C260 AND C494.
- 4. COLD WEATHER PLACEMENT SHALL CONFORM TO ACI-306. HOT WEATHER PLACEMENT SHALL CONFORM TO ACI-305. MECHANICALLY VIBRATE ALL FORMED CONCRETE. DO NOT OVER-VIBRATE. PLACE CONCRETE MONOLITHICALLY BETWEEN CONSTRUCTION OR CONTROL JOINTS. PROTECT ALL CONCRETE FROM PREMATURE DRYING.
- 5. CHAMFER ALL EXTERIOR CORNERS 1/2" UNLESS SHOWN OTHERWISE.
- 6. SLUMP LIMITS MAY BE INCREASED BY ADDITION OF ADMIXTURES PROVIDED THAT THE WATER/CEMENT RATIO OF THE ORIGINAL MIX DESIGN IS NOT EXCEEDED. WATER REDUCING ADMIXTURE SHALL BE IN CONFORMANCE WITH ASTM494, USED IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS. SUBMIT ADMIXTURES TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- 7. CEMENT SHALL BY TYPE I OR II IN CONFORMANCE WITH ASTM C150. AGGREGATES SHALL BE IN CONFORMANCE WITH ASTM C33 AND USE CRUSHED (NOT ROUND) GRAVEL OR STONE. COARSE AGGREGATES SHALL NOT EXCEED ¾". WATER SHALL BE CLEAN AND POTABLE.
- 8. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. GRADE 40 MAY BE USED FOR #3 AND SMALLER TIES AND STIRRUPS. DETAIL AND PLACE ACCORDING TO ACI MANUAL SP-66.
- 9. UNLESS OTHERWISE NOTED, MINIMUM COVER SHALL BE 1 1/2" FOR #5 AND SMALLER BARS, 2" FOR #6 AND LARGER BARS AND 3" WHEN POURED AGAINST EARTH. SUPPORT REINFORCEMENT WITH APPROVED CHAIRS, SPACES OR ITS
- 10. PROVIDE MINIMUM 48 BAR DIAMETERS AT SPLICES. NO MORE THAN 50% OF REINFORCING SHALL BE SPLICED AT ANY LOCATION. UNLESS OTHERWISE NOTED, BEND ALL HORIZONTAL REINFORCING A MINIMUM OF 2'-O" AT CORNERS AND WALL/FOOTING INTERSECTIONS WITH MIN. EMBEDMENT BEYOND INTERFACE PER DEVELOPMENT LENGTH SPECIFIED IN ACI 318.
- 11. FORMWORK SHALL BE IN ACCORDANCE WITH ACI—347 "GUIDE TO FORMWORK FOR CONCRETE". FORMS SHALL BE DESIGNED BY THE CONTRACTOR. BRACING SHALL BE PROVIDED AS REQUIRED OR UNTIL THE CONCRETE HAS REACHED ITS SPECIFIED 28—DAY STRENGTH. ALL SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMWORK, SUPPORTS, AND SHORING SHALL PROVIDE FINISHED CONCRETE SURFACES AT ALL FACES: LEVEL, PLUMB, AND TRUE TO DIMENSIONS AND ELEVATIONS SHOWN IN THE DRAWINGS.

POST-INSTALLED CONCRETE ANCHORS:

- 1. ADHESIN
 - 1.1. ADHESIVE ANCHORS SHALL BE INSTALLED BY QUALIFIED PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND WITH STRICT ADHERENCE TO THE PROVISIONS WITHIN THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
 - 1.2. AT THE TIME OF ANCHOR INSTALLATION, IN ACCORDANCE WITH ACI 318-14 SECTION 17.1.2, ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS.
 - 1.3. WHERE THE AUTHORITY HAVING JURISDICTION OVER THIS PROJECT REQUIRES ADHERENCE TO ACI 318-14 SECTION 1.8.2.2, INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH ACI 318-14 SECTION 1.8.2.2. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION, NOTE: THE STATE OF OREGON DOES NOT REQUIRE ADHERENCE TO ACI 318-14 SECTION 17.8.2.2.
- MECHANIC
 - 2.1. MECHANICAL ANCHORS SHALL BE INSTALLED BY QUALIFIED PERSONNEL TRAINED TO INSTALL
 MECHANICAL ANCHORS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND WITH STRICT
 ADHERENCE TO THE PROVISIONS WITHIN THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

STRUCTURAL OBSERVATION REQUIREMENTS:

- THE OWNER SHALL EMPLOY THE ENGINEER OF RECORD OR AN ALTERNATE OREGON LICENSED PROFESSIONAL ENGINEER, APPROVED BY THE ENGINEER OF RECORD, TO PERFORM STRUCTURAL OBSERVATIONS IN ACCORDANCE WITH SECTION 1704.6 OF THE INTERNATIONAL BUILDING CODE.
- 2. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY A REGISTERED DESIGN PROFESSIONAL FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR ANY OTHER INSPECTION CRITERIA, INCLUDING SPECIAL INSPECTION, AS REQUIRED BY THE BUILDING OFFICIAL OR AS INDICATED WITHIN THE INTERNATIONAL BUILDING CODE.
- 3. DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER AND THE BUILDING OFFICIAL (AND THE ENGINEER OF RECORD IF AN ALTERNATE ENGINEER IS USED FOR STRUCTURAL OBSERVATION). AT THE CONCLUSION OF THE STRUCTURAL WORK INCLUDED WITHIN THE PERMIT, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL AND THE OWNER (AND THE ENGINEER OF RECORD IF AN ALTERNATE ENGINEER IS USED FOR STRUCTURAL OBSERVATION) A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.
- 4. THE CONTRACTOR SHALL MAKE AVAILABLE ALL MEANS AND METHODS NECESSARY FOR THE STRUCTURAL OBSERVER TO PERFORM THE REQUIRED STRUCTURAL OBSERVATIONS. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND STRUCTURAL OBSERVER A MINIMUM OF 48 HOURS BEFORE THE TIME AT WHICH THE SPECIFIED STRUCTURAL OBSERVATIONS MAY BE PERFORMED. IN ADDITION THE CONTRACTOR SHALL UPDATE THE STRUCTURAL OBSERVER OF THE CONSTRUCTION PROGRESS.
- 5. STRUCTURAL OBSERVATIONS SHALL BE PERFORMED FOR THE FOLLOWING AREAS OF WORK: 5.1. FOLLOWING THE INSTALLATION OF WALL DOWELS AND WALL REINFORCING PERIOD TO THE FIRST SHOTCRETE APPLICATION
- 5.2. FOLLOWING THE COMPLETION OF ALL STRUCTURAL ELEMENTS CONTAINED HEREIN.

See Addendum #2 for changes to this page.

SUBMITTALS:

THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL SUBMITTALS FOR APPROVAL, PRIOR TO CONSTRUCTION, FOR THE FOLLOWING ITEMS:

1. CONCRETE MIX DESIGN AND PROPOSED ADMIXTURES

SPECIAL INSPECTIONS:

AN INDEPENDENT TESTING LABORATORY, SELECTED AND ENGAGED BY THE OWNER, SHALL PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE AND OF THE TYPE AND FREQUENCY OUTLINED IN THE QUALITY CONTROL SECTION OF THESE GENERAL NOTES.

EACH SPECIAL INSPECTION AND MATERIAL TESTING REPORT SHALL BE DISTRIBUTED TO THE OWNER, CONTRACTOR, BUILDING OFFICIAL AND ENGINEER OF RECORD IN A TIMELY FASHION.

THE CONTRACTOR SHALL MAKE AVAILABLE ALL MEANS AND METHODS NECESSARY FOR THE SPECIAL INSPECTOR TO PERFORM THE REQUIRED INSPECTIONS. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND SPECIAL INSPECTOR A MINIMUM OF 48 HOURS BEFORE THE TIME AT WHICH THE SPECIFIED SPECIAL INSPECTIONS MAY BE PERFORMED.

	TABLE 2								
		REQUIRE			. SPECIAL IN	ISPECTION	IS		
				INSPECT					
SYSTEM or MA	ΓERIAL	IBC CODE			FREQUENCY		REMARKS		
		REFERENCE	REFER		Continuous	Periodic			
				FABRIC					
INSPECTION OF ANCHORS HARDENED CONCRETE	INSTALLED IN	1909.1 TABLE 1705.3	ACI 3 3.8.6, 8.1.3	318:	KEIE	X (a)	SPECIAL INSPECTIONS APPLY TO ANCHOR PRODUCT NAME, TYPE, AND DIMENSIONS, HOLE DIMENSIONS, COMPLIANCE WITH DRILL BIT REQUIREMENTS, CLEANLINESS OF THE HOLE AND ANCHOR, ADHESIVE EXPIRATION DATE, ANCHOR/ADHESIVE INSTALLATION, ANCHOR EMBEDMENT, AND THEIR THING TORQUE		
REINFORCING STEEL AND TENDON PLACEMENT	PRESTRESSING	1705.3 1910.4 1901.3.2	ACI 318:			x	TOLERANCES AND REINFORCING PLACEMENT PER ACI 7.5; SPACING LIMITS FOR REINFORCING ACI 7.6 PROTECTION OF REINFORCEMENT PER ACI 7.7		
VERIFYING USE OF REQUIR DESIGN(S)	ED MIX	TABLE 1705.3 1904 1904.2 1910.2 1910.3	ACI 318: CH ACI 318:			x			
CONCRETE PLACEMENT		TABLE 1705.3	ACI 318: ACI 318: 5		x				
SHOTCRETE PLACEMENT		TABLE 1705.3 1910.6-8			x				
CONCRETE/SHOTCRETE C	URING	TABLE 1705.3 1910.9.1-3	ACI 318: 5	.11-5.13		X (a)			

	REQL	JIRED TESTING fo		L INSPE	CTIONS
		T	FREQUENCY		1
SYSTEM or MATERIAL	IBC CODE REFERENCE			Periodic	REMARKS
	I	CO	NCRETE		•
AT THE TIME FRESH CONCRETE IS SAN TO FABRICATE SPECIMENS FOR STREI TESTS, PERFORM SLUMP AND AIR CON TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	IGTH TABLE	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	x		FABRICATE SPECIMENS AT TIME FRESH CONCRETE IS PLACED ONCE EACH DAY FOR A GIVEN CLASS OF CONCRETE, OR LESS THAN ONCE FOR EACH 150 YDS OF CONCRETE, OR LESS THAN ONCE FOR EACH 5.000 FT2 OF SURFACE ARE FOR SLABSWALLS, ONCE EACH SHUTT FROM IN-PLACE
CONCRETE STRENGTH	TABLE 1705.3	ASTM C39	x		WORK OR FROM TEST PANEL AND MINIMUM ONE SPECIMEN FOR EACH 50 CUBIC YARDS. "PRECONSTRUCTION TESTS AS REQUIRED PER THE BUILDING OFFICIAL."
CONCRETE SLUMP	TABLE	ASTM C143	х		
CONCRETE AIR CONTENT	1705.3	ASTM C231	Х		
CONCRETE TEMPERATURE	1700.0	ASTM C1064	Х		
SHOTCRETE STRENGTH	1910.10	ASTM C42	x		IBC 1910.10: SPECIMENS SHALL BE TAKEN FROM THE IN- PLACE OR FROM TEST PANELS, AND SHALL BE TAKEN AT LEAST ONCE EACH SHIFT, BUT NOT LESS THAN ONE FOR EACH 50 CUBIC YARDS OF SHOTCRETE

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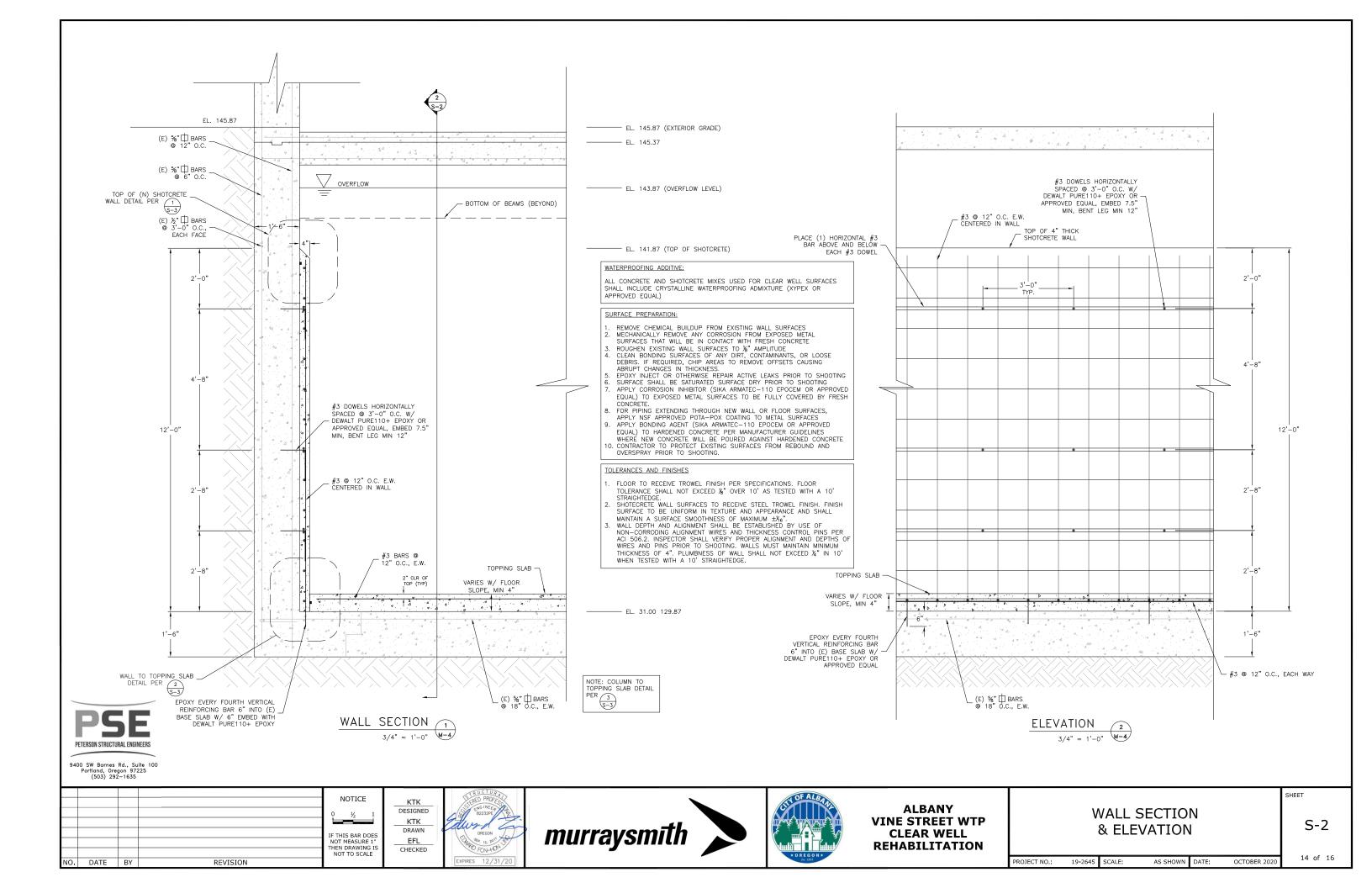
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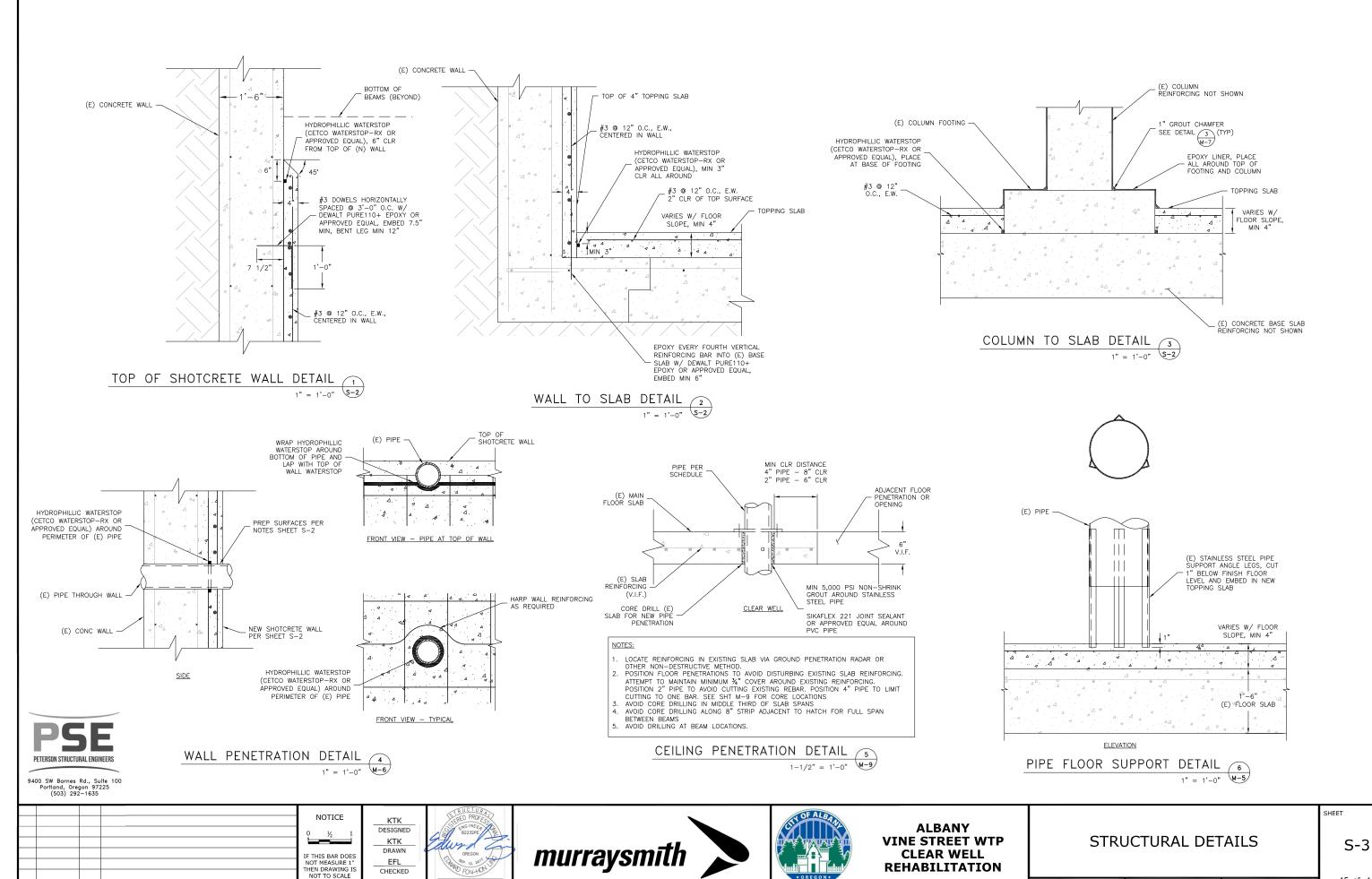
GENERAL NOTES

S-1

SHEET

PROJECT NO.: 19-2645 SCALE: AS SHOWN DATE: OCTOBER 20





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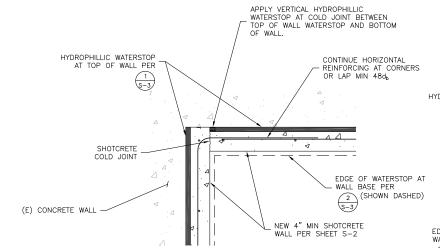
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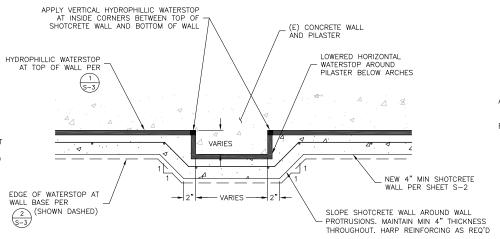
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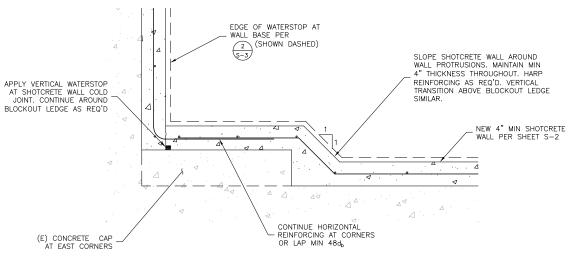
PROJECT NO.:

19-2645 SCALE:

AS SHOWN DATE:







TYPICAL CORNER DETAIL

1-1/2" = 1'-0"

M-2

WALL PILASTER DETAIL

1-1/2" = 1'-0"

M-2

SHOTCRETE AROUND CONCRETE CAP DETAIL

(a)1'-0" ABOVE EXISTING SLAB

1-1/2" = 1'-0"

(M-2)

1-1/2" = 1'-0"

PSE PETERSON STRUCTURAL ENGINEERS

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ALBANY
VINE STREET WTP
CLEAR WELL
REHABILITATION

STRUCTURAL DETAILS

| S-4

SHEET

PROJECT NO.: 19-2645 SCALE: AS SHOWN DATE: OCTOBER 202