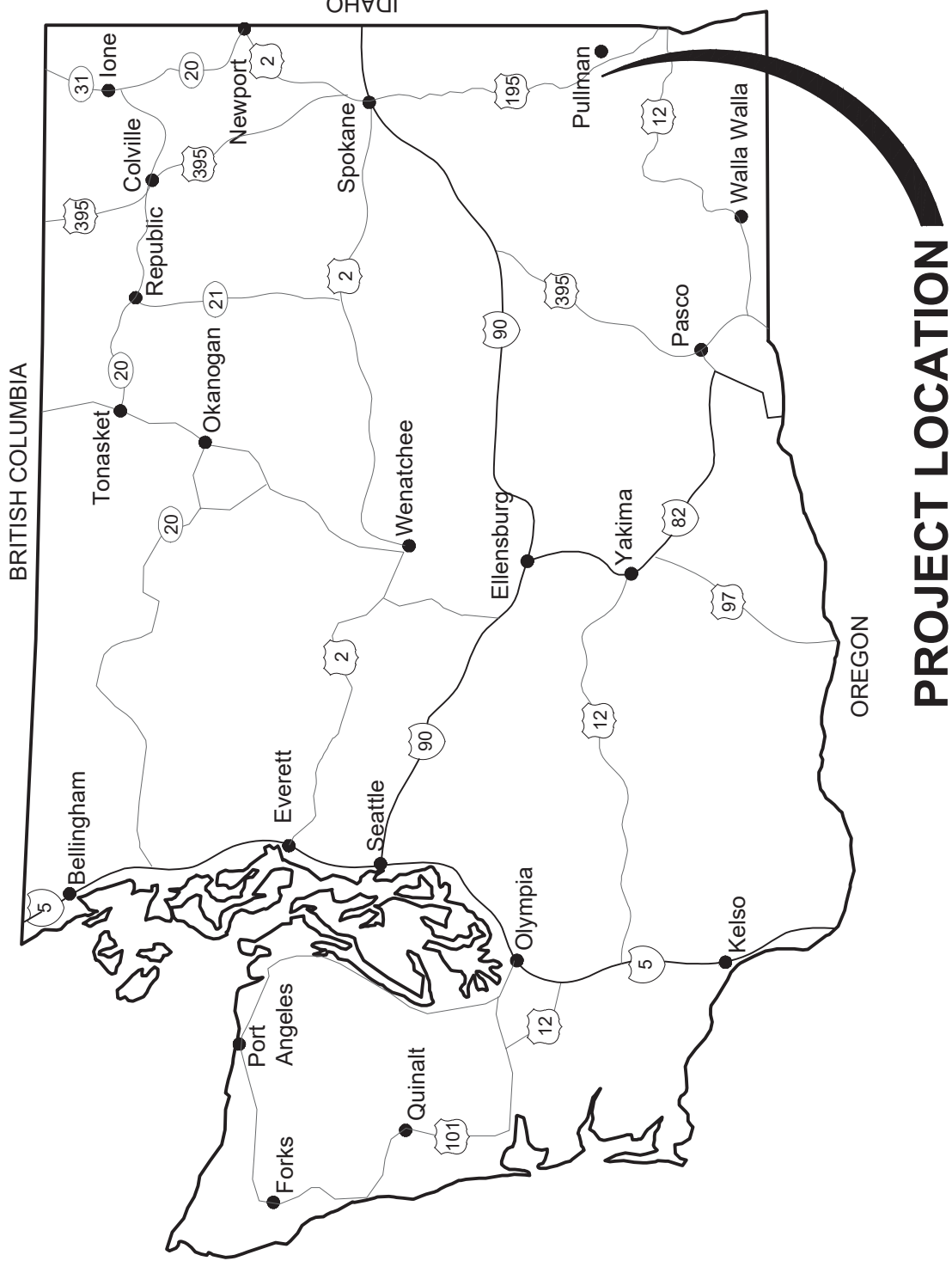


CAROTHERS ROAD SOLID WASTE FACILITY

CONTACT WATER AND FIRE SUPPRESSION WATER HOLDING TANKS PROJECT

WHITMAN COUNTY, WASHINGTON

BID NO. XEW31



PROJECT LOCATION

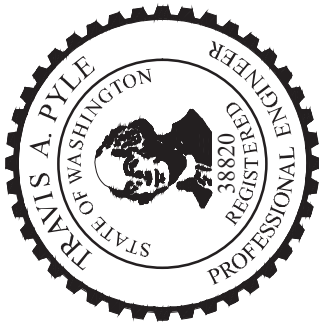
PLANS PREPARED FOR:

MARK STOREY, P.E.
COUNTY ENGINEER & PUBLIC WORKS DIRECTOR
WHITMAN COUNTY, WASHINGTON

DAVID NAILS
SOLID WASTE & RECYCLING DIRECTOR
WHITMAN COUNTY, WASHINGTON

APPROVED BY:

TRAVIS A. PYLE, P.E.
GREAT WEST ENGINEERING

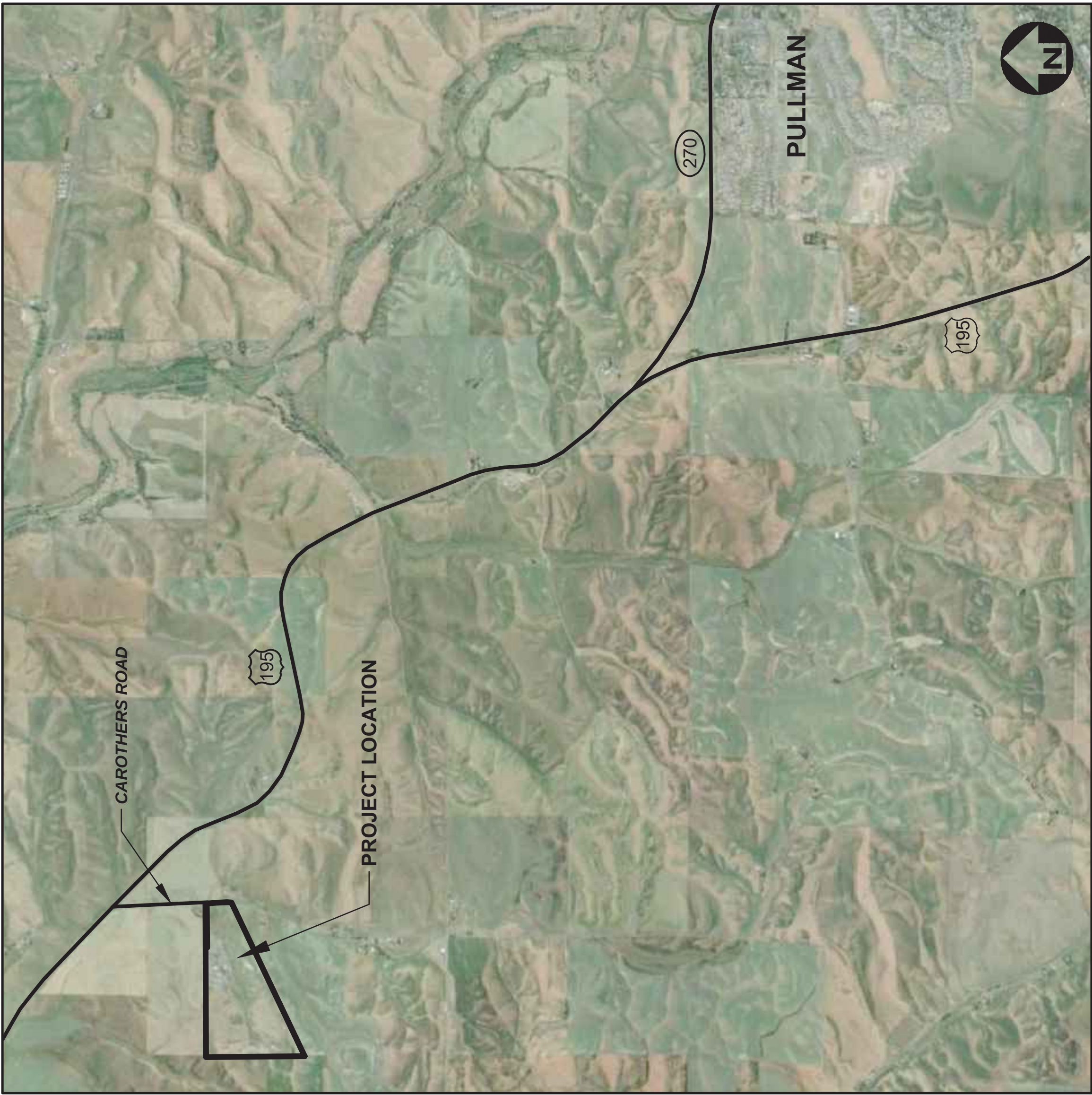


QA/QC BY:

ROBERT E. CHURCH, P.E.
GREAT WEST ENGINEERING

PLANS PREPARED BY:

MICHELLE LANGDON, P.E.
BRET ANDERSON



NOT TO SCALE

SHEET INDEX

- SHEET 1

COVER
- SHEET 2

LEGEND, ABBREVIATIONS AND GENERAL NOTES
- SHEET 3

EXISTING SITE CONDITIONS
- SHEET 4

DEMOLITION PLAN
- SHEET 5

CONTACT WATER TANKS AND EVAPORATION BASIN ENLARGED SITE PLAN
- SHEET 6

CONTACT WATER TANKS AND EVAPORATION BASIN SECTION
- SHEET 7

FIRE SUPPRESSION WATER HOLDING TANK ENLARGED SITE PLAN
- SHEET 8

FIRE SUPPRESSION WATER HOLDING TANK SECTION
- SHEET 9

FINISH GRADING AND DRAINAGE PLAN
- SHEET 10

GENERAL DETAILS
- SHEET 11

CONTACT WATER LIFT STATION DETAILS
- SHEET 12

CONTACT WATER TANK DETAILS
- SHEET 13

CONTACT WATER TANK DETAILS
- SHEET 14

FIRE SUPPRESSION WATER HOLDING TANK DETAILS
- SHEET 15

FIRE SUPPRESSION WATER HOLDING TANK DETAILS
- SHEET 16

BUILDING DRAIN LIFT STATION DETAILS
- SHEET 17

EVAPORATION BASIN STRUCTURAL DETAILS
- SHEET 18

EVAPORATION BASIN STRUCTURAL DETAILS

PROJECT: 4-16108
DATE: MARCH 2017

NO.	REVISION DESCRIPTION	BY	DATE	SET NO.
△				
△				
△				
△				
△				
△				
△				
SHEET NO.				1

ABBREVIATIONS

⊙	AT	LPG	LIQUID PROPANE GAS
∠	ANGLE OF DEFLECTION, DELTA ANGLE	LT	LEFT
AB	ANCHOR BOLT	MAX	MAXIMUM
ABDN	ABANDONED	MD	MEASURED
AC	ASBESTOS	MF	MANUFACTURED
ACN	ADDITIONAL	MFR	MANUFACTURE, MANUFACTURER
ADDN	ADJACENT	MH	MANHOLE
ADJ	ADJACENT	MIN	MINIMUM
AFF	ABOVE FINISHED FLOOR	MISC	MISCELLANEOUS
ALT	ALTERNATE	MJ	MECHANICAL JOINT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MOV	MOTOR OPERATED VALVE
APPROX	APPROXIMATE	MPSS	MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS
APD	APPROVED	N	NORTH
ASPH	ARCHITECTURE, ARCHITECTURAL	NE	NORTHEAST
ASPH	ASPHALT	NG	NATURAL GAS
AVE	AVENUE	NIC	NOT IN CONTRACT
AVG	AVERAGE	NIM	NUMBER
BEV	BUTTERFLY VALVE	NIS	NOT TO SCALE
BLDG	BUILDING	NW	NORTHWEST
BLK	BLOCK	OC	ON CENTER
BLVD	BOULEVARD	OD	OUTSIDE DIAMETER
BM	BEAM, BENCHMARK	OF	OVERFLOW
BOT	BOTTOM	OHP	OVERHEAD
BRG	BEARING	OHT	OVERHEAD POWER
BRKT	BRACKET	OPNG	OPENING
BVC	BEGIN VERTICAL CURVE	PC	POINT OF CURVATURE
C-C	CENTER TO CENTER	PCC	POINT OF COMPOUND CURVATURE
CHAN	CHANNEL	PE	PLAIN END, POLYETHYLENE
CHK	CHECK	PERP	PERPENDICULAR
CHK	CAST IRON	PI	POINT OF INTERSECTION
CHPC	CAST-IN-PLACE CONCRETE	PL	PROPERTY LINE
CHC	CIRCULAR	PL	PANEL OF REVERSE CURVATURE
CJ	CONSTRUCTION JOINT, CONTROL JOINT	PREAB	PREFABRICATED
CL	CENTER LINE	PREP	PREPARE, PREPARATION
CLR	CLEAR, CLEARANCE	PRV	PRESSURE REDUCING VALVE
CMP	CORRUGATED METAL PIPE	PSF	POUNDS PER SQUARE FOOT
CNU	CONCRETE MASONRY UNITS	PSI	POUNDS PER SQUARE INCH
CO	COLUMN	PT	POINT, POINT OF TANGENCY
COL	COLUMN	PT	POINT OF TANGENCY
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE
CONSTR	CONSTRUCTION	PWT	PAVEMENT
CONT	CONTINUE, CONTINUED, CONTINUOUS	R, RAD	RADIUS
CONTR	CONTRACTOR	RCP	RIBBED CONCRETE PIPE
COORD	COORDINATE	RCP	REINFORCED CONCRETE PIPE
CP	CONTROL PANEL, CONTROL POINT	RDR	REDUCER
CPLG	COUPLING	REBAR	REINFORCEMENT BAR
CTR	CENTER	REF	REFERENCE
CTV	CABLE TELEVISION	REIN	REINFORCE
CU	CUBIC, COPPER	REQD	REQUIRED
CUL	CULVERT	RR	RAILROAD
CULV	CUBIC YARD	RT	RIGHT
CY	CUBIC YARD	RT	RIGHT
DET	DETICLE IRON, DRAIN INLET	R/W	RIGHT-OF-WAY
DIA, ∅	DIAMETER	S	SOUTH, SANITARY SEWER
DIAG	DIAGONAL	SAN	SANITARY
DIM	DIMENSION	SCH	SCHEDULE
DR	DRIVE	SDWK	SANITARY DRAIN
DWG	DRAWING	SE	SIDEWALK
E	EAST	SECT	SECTION
EACH	EACH	SF	SQUARE FOOT
EL	ELEVATION	SHT	SHEET
ELB	ELBOW	SM	SIMILAR
ELEC	ELECTRIC, ELECTRICAL	SLP	SLOPE
ENCL	ENCLOSE	SPEC	SPECIFICATION
ENGR	ENGINEER	SS	STAINLESS STEEL
EDGE	EDGE OF PAVEMENT	SS	STATION
EQ	EQUAL, EQUALLY	SS	SANITARY SEWER SERVICE
EQ, SP	EQUALLY SPACED	STD	STANDARD
EQUIP	EQUIPMENT	ST	STEEL
EQUIV	EQUIVALENT	STL	STRUCTURE
EVC	END VERTICAL CURVE	STR	STRUCTURE
EW	EACH WAY	SW	SOUTHWEST
EXC	EXCAVATE	STM	SYMMETRICAL
EXP	EXPANSION	TB	THRUST BLOCK
EXP, JT	EXPANSION JOINT	TBC	TOP BACK OF CURB
EXT	EXISTING	TBM	TEMPORARY BENCH MARK
FCV	FLOW CONTROL VALVE	TEMP	TEMPORARY
FDD	FLOW DRAIN	THRU	THROUGH
FEN	FLARED END	TYP	TYPICAL
FES	FLARED END SECTION	UC	UNDERGROUND
FET	FINISHED END TERMINAL	UGP	UNDERGROUND POWER
FF	FINISHED FLOOR	UGT	UNDERGROUND TELEPHONE
FG	FINISH GRADE	UTIL	UTILITY
FHYD	FIRE HYDRANT	V	VALVE
FJ	FLANGE JOINT	VB	VALVE BOX
FL	FLOW LINE	VERT	VERTICAL
FLEX	FLEXIBLE	VOL	VOLUME
FW	FORWARD	W	WEST
FT	FOOT, FEET	WTR	WATER
FO	FOOTING, FITTING	WD	WOOD
FTG	FOOTING, FITTING	W/O	WITHOUT
G	NATURAL GAS	W/O	WITHOUT
GA	GAGE, GAUGE	WL	WETLAND
GAL	GALLON	WM	WIRE MESH, WATER METER
GALV	GALVANIZED	WS	WATERSTOP, WATER SURFACE, WATER SERVICE
GND	GROUND	WT	WEIGHT
GVL	GRAVEL	WV	WATER VALVE
HB	HOSE BIB	WWF	WELDED WIRE FABRIC
HDPE	HIGH DENSITY POLYETHYLENE	WWM	WELDED WIRE MESH
HOR, HORIZ	HORIZONTAL	X-ING	CROSSING
HWY	HIGHWAY	XS	CROSS SECTION
HYD	HYDRANT	YD	YARD
ID	INSIDE DIAMETER		
IE	INVERT ELEVATION		
INCH	INCH		
INV	INVERT		
JB	JUNCTION BOX		
JT	JOINT		
K	RATE OF VERTICAL CURVATURE		
LBS	POUNDS		
LF	LINEAR FEET		
LN	LANE		

LEGEND

EXISTING	PROPOSED	DESCRIPTION
---	---	MAJOR CONTOUR
----	----	MINOR CONTOUR
---	---	OVERHEAD TELEPHONE
---	---	UNDERGROUND TELEPHONE
---	---	CABLE TELEVISION
---	---	FIBER OPTIC
---	---	NATURAL GAS
---	---	OVERHEAD POWER
---	---	UNDERGROUND POWER
---	---	SANITARY SEWER
---	---	SANITARY SEWER SERVICE
---	---	SANITARY SEWER FORCEMAIN
---	---	STORM DRAIN
---	---	STORM CULVERT
---	---	WATER
---	---	WATER SERVICE
---	---	CONTACT WATER
---	---	UNDERDRAIN
---	---	CHAINLINK FENCE
---	---	BARBED WIRE FENCE
---	---	WOOD FENCE
---	---	PAVED ROAD
---	---	GRAVEL ROAD
---	---	PROPERTY/LOT LINE
---	---	PROPERTY EASEMENT
---	---	CITY LIMIT/DISTRICT BOUNDARY
---	---	RAILROAD
---	---	DITCH
---	---	WATER EDGE
---	---	WETLAND
---	---	BUILDING
---	---	BENCHMARK
---	---	CONTROL POINT
---	---	PROPERTY PIN
---	---	BORING
---	---	MONITORING WELL
---	---	TEST PIT
---	---	BOLLARD
---	---	MAIL BOX
---	---	SIGN

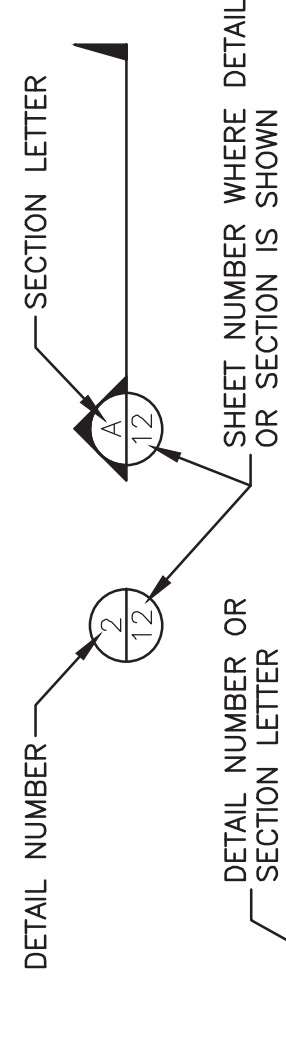
GENERAL NOTES:

1. THIS IS A STANDARD LEGEND AND ABBREVIATION LIST. THEREFORE, NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED ON THIS PROJECT.
2. EXISTING UNDERGROUND UTILITIES SHOWN ARE FROM THE BEST INFORMATION AVAILABLE. THIS INFORMATION IS APPROXIMATE AND MAY BE INCOMPLETE. FOR ACCURATE LOCATION, THE CONTRACTOR SHALL CONTACT, PRIOR TO EXCAVATION, THE UTILITIES UNDERGROUND LOCATION CENTER AT: 811.

PROJECT NOTES:

1. SOURCE TOPOGRAPHY SHOWN IS BASED ON SURVEY INFORMATION AND MAPPING PROVIDED BY WHITMAN COUNTY AND AS-BUILT INFORMATION FROM THE NEW WASTE TRANSFER BUILDING (WTB) PROJECT. EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ADJUST WORK PLAN ACCORDINGLY PRIOR TO BEGINNING CONSTRUCTION.
2. HORIZONTAL DATUM: SITE SPECIFIC SET AT CP#1.
3. VERTICAL DATUM: NAVD 88.

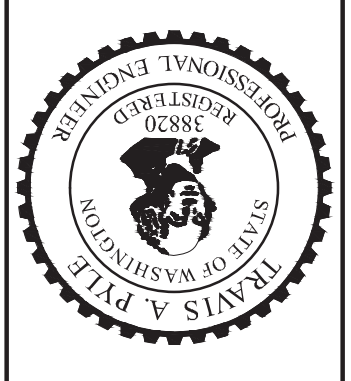
GENERAL DESIGN DESIGNATIONS:



DETAIL OR SECTION TITLE

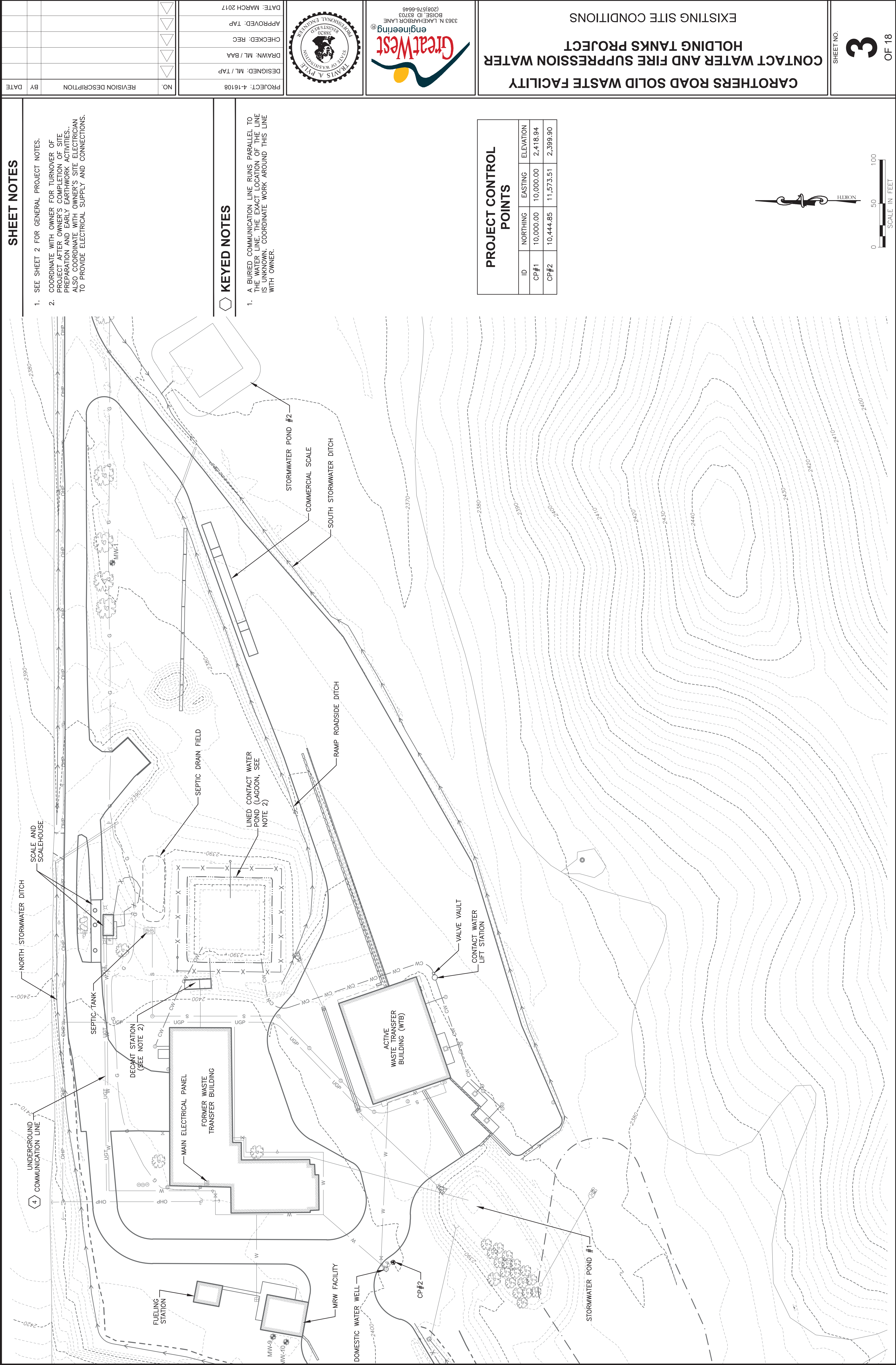


CAROTHERS ROAD SOLID WASTE FACILITY
CONTACT WATER AND FIRE SUPPRESSION WATER
LEGEND, ABBREVIATIONS
AND GENERAL NOTES



PROJECT: 4-16108	DESIGNED: ML / BAA	CHECKED: REC	APPROVED: TAP	DATE: MARCH 2017
------------------	--------------------	--------------	---------------	------------------

NO.	REVISION DESCRIPTION	BY	DATE



F:\4-16108-Whitman Co Contact Water Tank Project\CADD 4-16108\Sheets\4-16108-03-Ex Site Cond.dwg

CAROTHERS ROAD SOLID WASTE FACILITY

CONTACT WATER AND FIRE SUPPRESSION WATER

EXISTING SITE CONDITIONS

PROJECT CONTROL POINTS			
ID	NORTHING	EASTING	ELEVATION
CP#1	10,000.00	10,000.00	2,418.94
CP#2	10,444.85	11,573.51	2,399.90



- KEYED NOTES
1.

A BURIED COMMUNICATION LINE RUNS PARALLEL TO THE WATER LINE. THE EXACT LOCATION OF THE LINE IS UNKNOWN. COORDINATE WORK AROUND THIS LINE WITH OWNER.

- SHEET NOTES
1.

SEE SHEET 2 FOR GENERAL PROJECT NOTES.
2.

COORDINATE WITH OWNER FOR TURNOVER OF PROJECT AFTER OWNER'S COMPLETION OF SITE PREPARATION AND EARLY EARTHWORK ACTIVITIES. ALSO COORDINATE WITH OWNER'S SITE ELECTRICIAN TO PROVIDE ELECTRICAL SUPPLY AND CONNECTIONS.

GreatWest

engineering

®

3363 N. LAKEHARBOR LANE
BOISE, ID 83703
(208) 576-6646

PROFESSIONAL ENGINEER

STATE OF WASHINGTON

15820

DAVIS A. PYLE

PROJECT: 4-16108

DESIGNED: ML / TAP

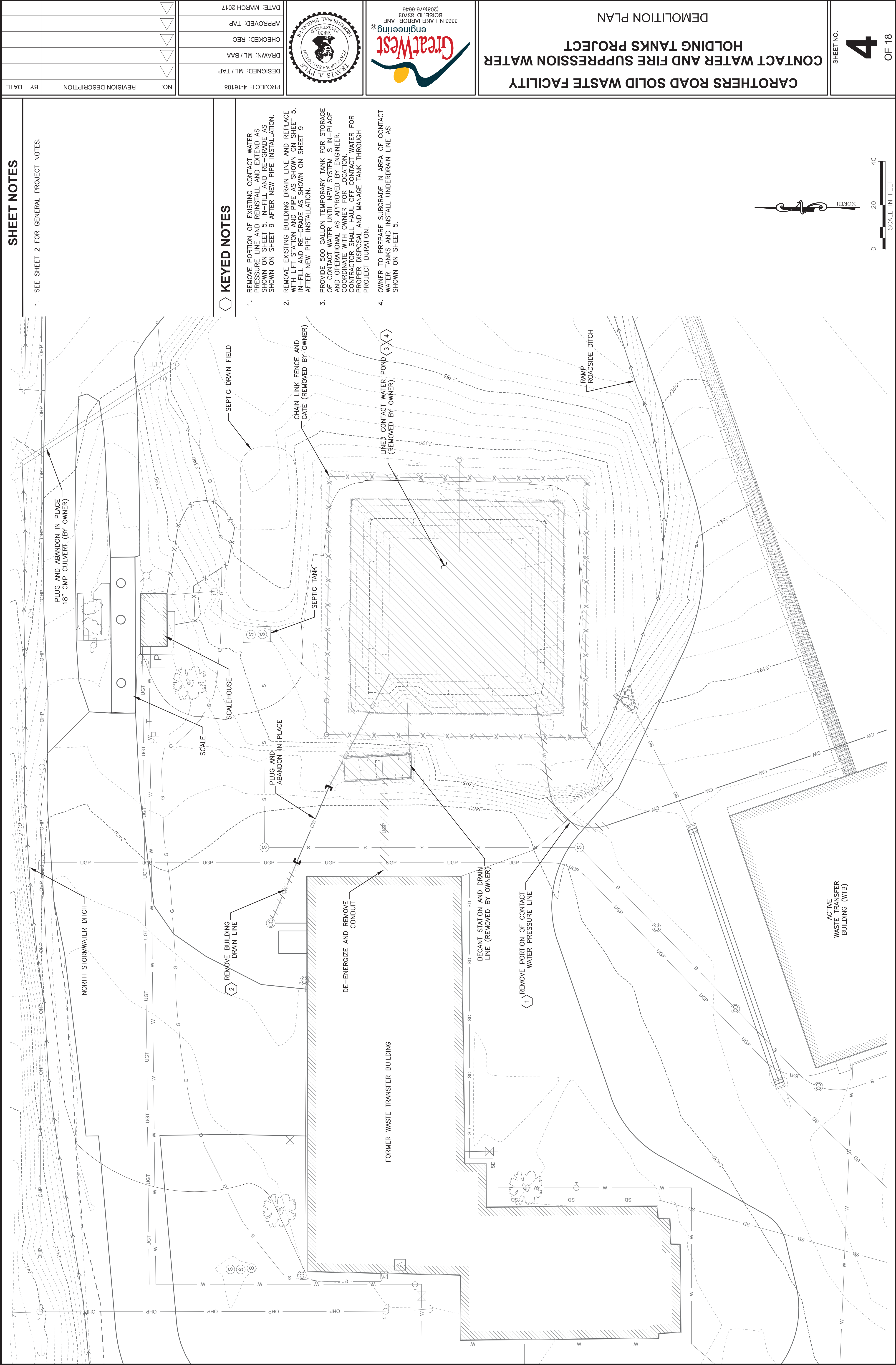
DRAWN: ML / BAA

CHECKED: REC

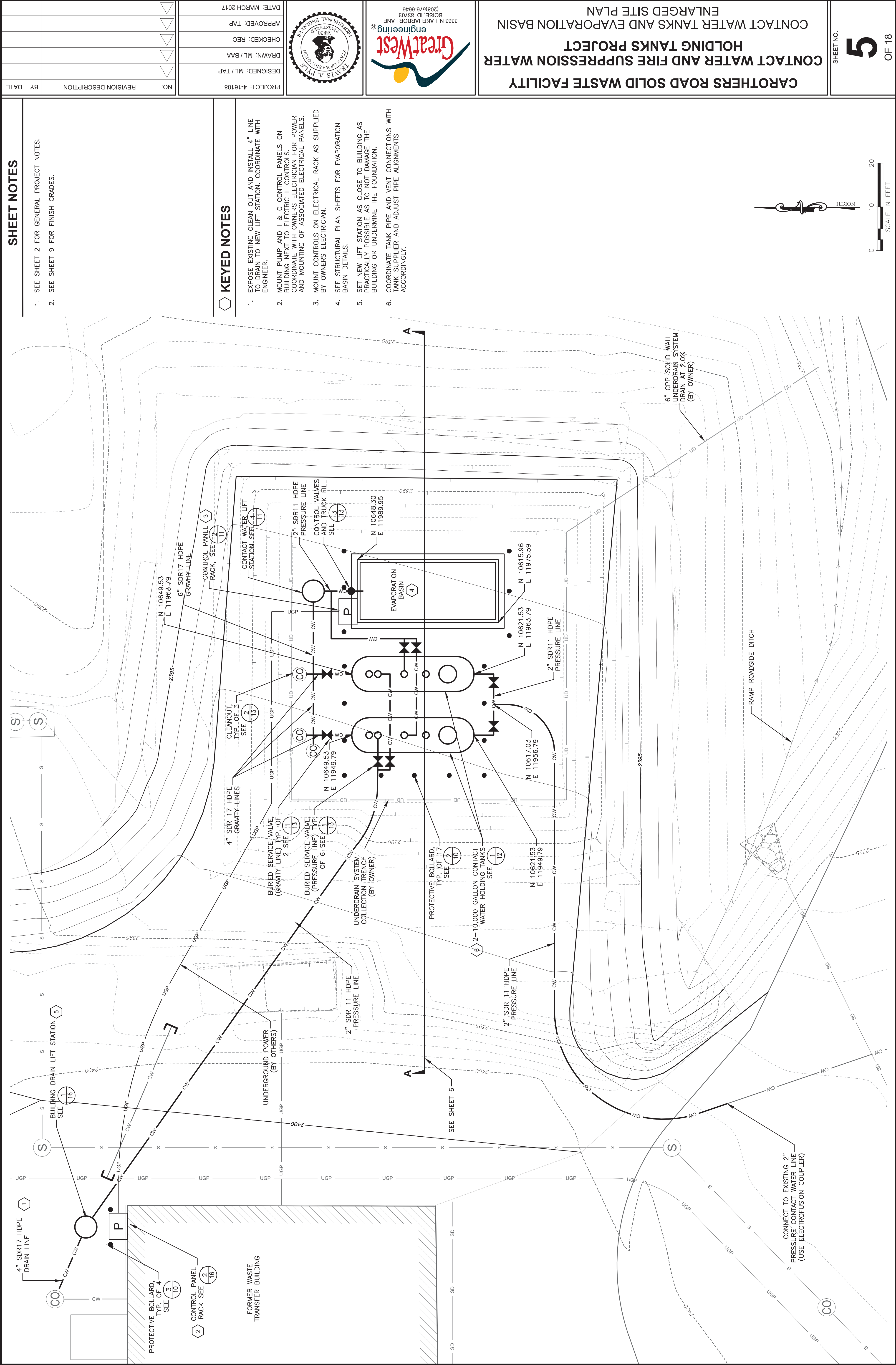
APPROVED: TAP

DATE: MARCH 2017

NO.	REVISION DESCRIPTION	BY	DATE



F:\4-16108-Whitman Co Contact Water Tank Project\CADD 4-16108\Sheets\4-16108-04-Demo Plan.dwg



PROJECT: 4-16108

DESIGNED: ML / TAP

DRAWN: ML / BAA

CHECKED: REC

APPROVED: TAP

DATE: MARCH 2017

STATE OF WASHINGTON
PROFESSIONAL ENGINEER
TIAVA A. PYLE
18878
1000

GreatWest
engineering®
3363 N. LAKEHARBOR LANE
BOISE, ID 83703
(208) 576-6646

CONTACT WATER AND FIRE SUPPRESSION WATER
HOLDING TANKS PROJECT
ENLARGED SITE PLAN

SHEET NO. 5

OF 18

1. SEE SHEET 2 FOR GENERAL PROJECT NOTES.

2. SEE SHEET 9 FOR FINISH GRADES.

KEYED NOTES

1. EXPOSE EXISTING CLEAN OUT AND INSTALL 4" LINE TO DRAIN TO NEW LIFT STATION. COORDINATE WITH ENGINEER.

2. MOUNT PUMP AND I & C CONTROL PANELS ON BUILDING NEXT TO ELECTRICAL CONTROLS. COORDINATE WITH OWNERS ELECTRICIAN FOR POWER AND MOUNTING OF ASSOCIATED ELECTRICAL PANELS.

3. MOUNT CONTROLS ON ELECTRICAL RACK AS SUPPLIED BY OWNERS ELECTRICIAN.

4. SEE STRUCTURAL PLAN SHEETS FOR EVAPORATION BASIN DETAILS.

5. SET NEW LIFT STATION AS CLOSE TO BUILDING AS PRACTICALLY POSSIBLE AS TO NOT DAMAGE THE BUILDING OR UNDERMINE THE FOUNDATION.

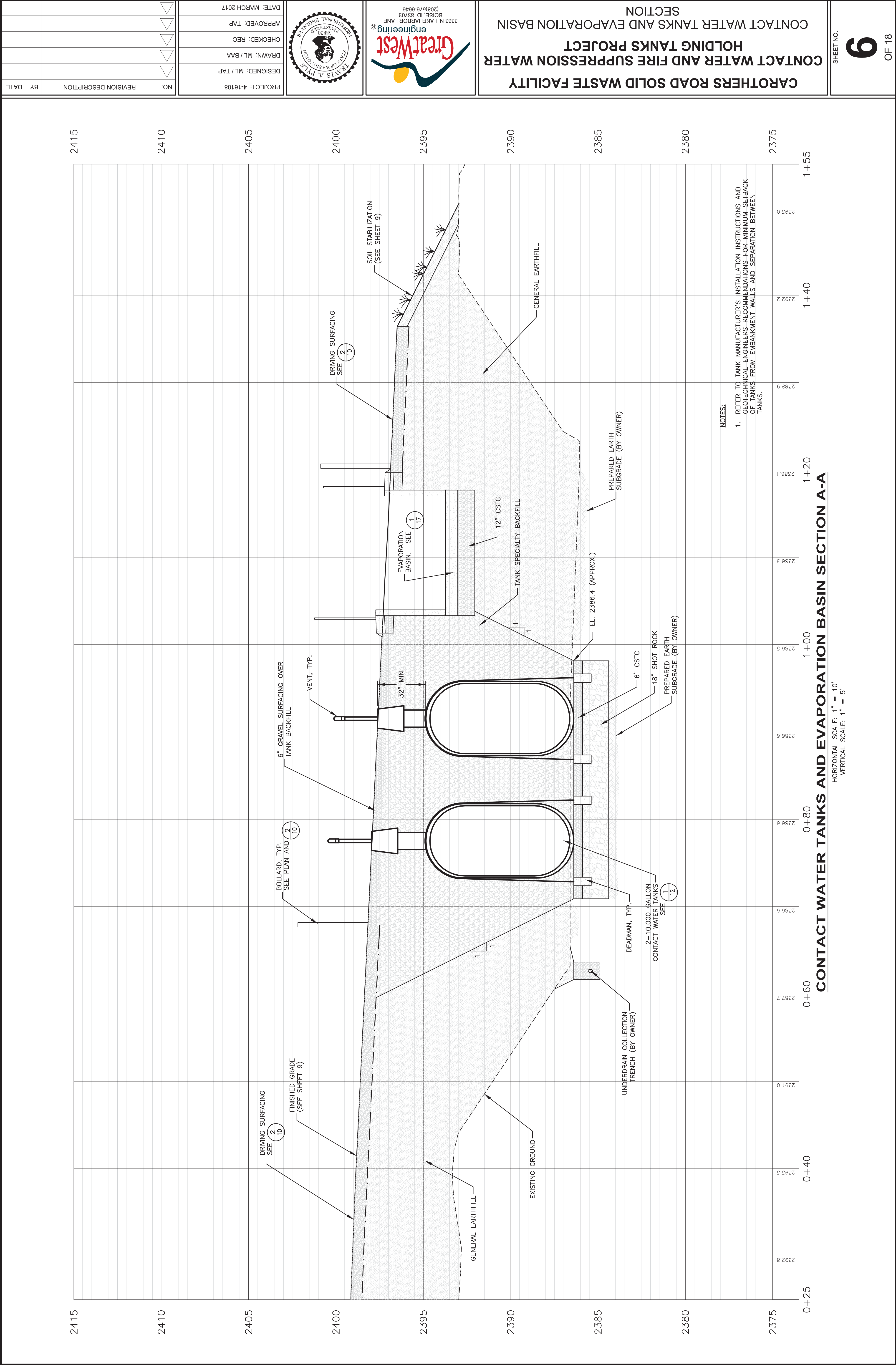
6. COORDINATE TANK PIPE AND VENT CONNECTIONS WITH TANK SUPPLIER AND ADJUST PIPE ALIGNMENTS ACCORDINGLY.

0 10 20

SCALE IN FEET

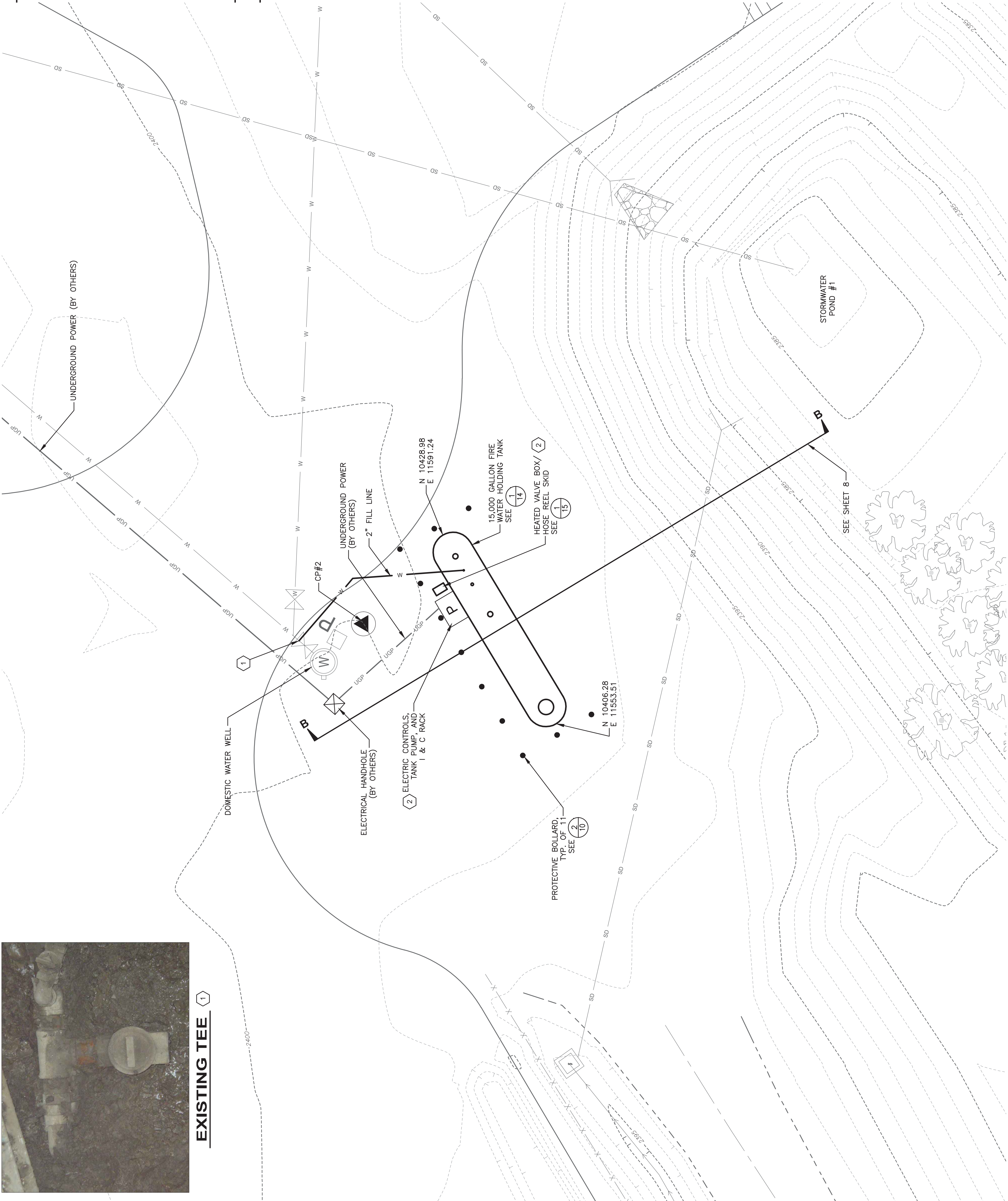
NORTH

F:\4-16108-Whitman Co Contact Water Tank Project\CADD 4-16108-Sheets\4-16108-05-Enl Site Plan Cw.dwg





EXISTING TEE 1



PROJECT: 4-16108

DESIGNED: ML / TAP

DRAWN: ML / BAA

CHECKED: REC

APPROVED: TAP

DATE: MARCH 2017

PROFESSIONAL ENGINEER

STATE OF WASHINGTON

1828

PAUL A. PYLE

GreatWest

engineering®

3963 N. LAKEHARBOR LANE

BOISE, ID 83703

(208) 576-6646

CAROTHERS ROAD SOLID WASTE FACILITY

CONTACT WATER AND FIRE SUPPRESSION WATER

HOLDING TANKS PROJECT

SITE PLAN

FIRE SUPPRESSION WATER HOLDING TANK ENLARGED

SHEET NO. 7

OF 18

0

10

20

SCALE IN FEET

NORTH

0

10

20

1. SEE SHEET 2 FOR GENERAL PROJECT NOTES.

2. FOR FINISH GRADE, BLEND IN CRUSHED SURFACING AGGREGATE TO SURROUNDING GRADE. FINISH TO BE SMOOTH AND PROVIDE POSITIVE DRAINAGE TOWARD STORMWATER POND #1.

KEYED NOTES

1. CONNECT TO EXISTING TEE AND VALVE.

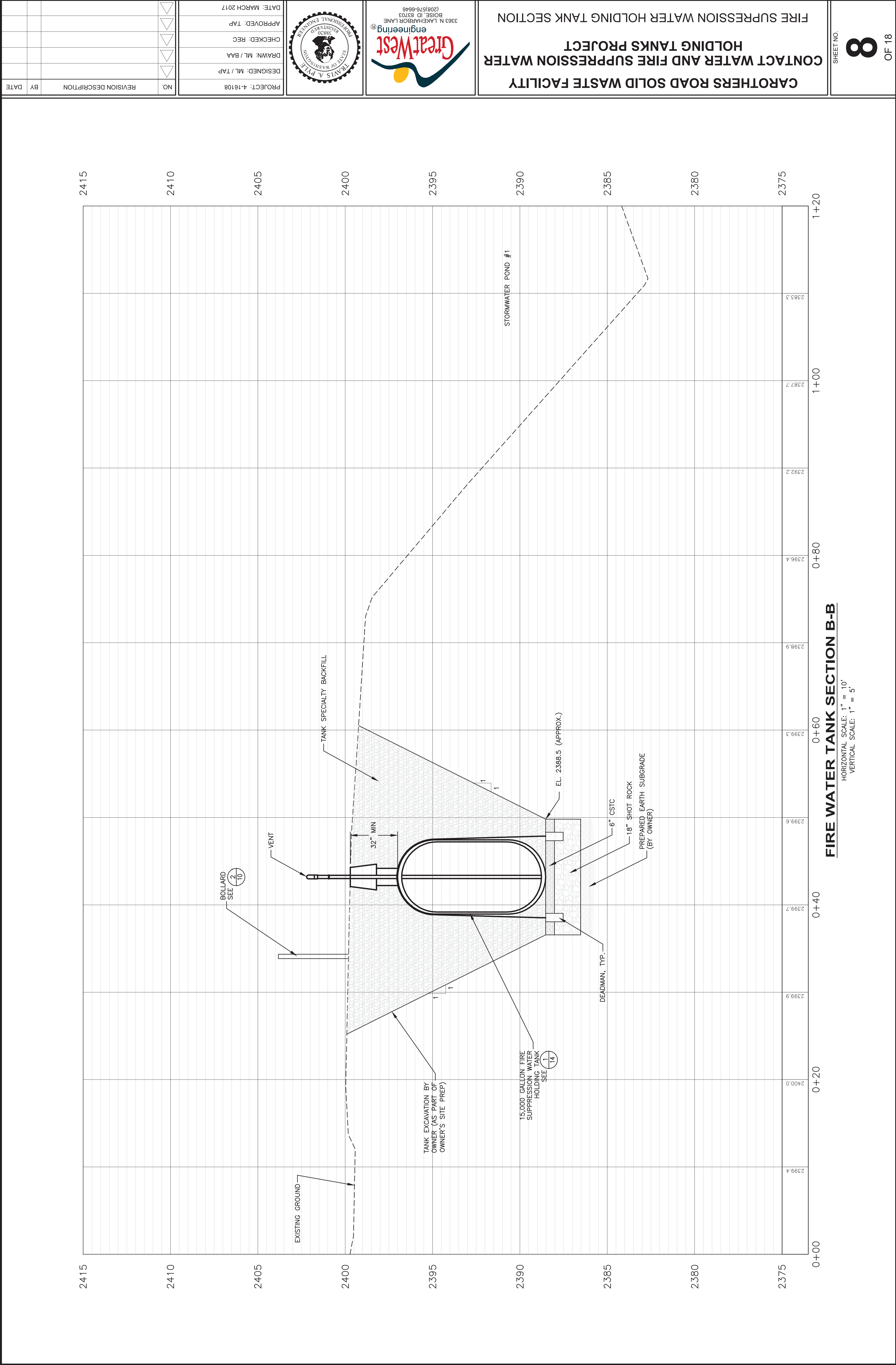
2. PLACE HEATED VALVE BOX/HOSE REEL SKID NEXT TO ELECTRICAL RACK (PAD AND RACK BY OWNERS' ELECTRICIAN). SECURE SKID SYSTEM TO CONCRETE PAD USING EPOXY CONCRETE ANCHOR BOLTS. COORDINATE WITH OWNER'S ELECTRICIAN.

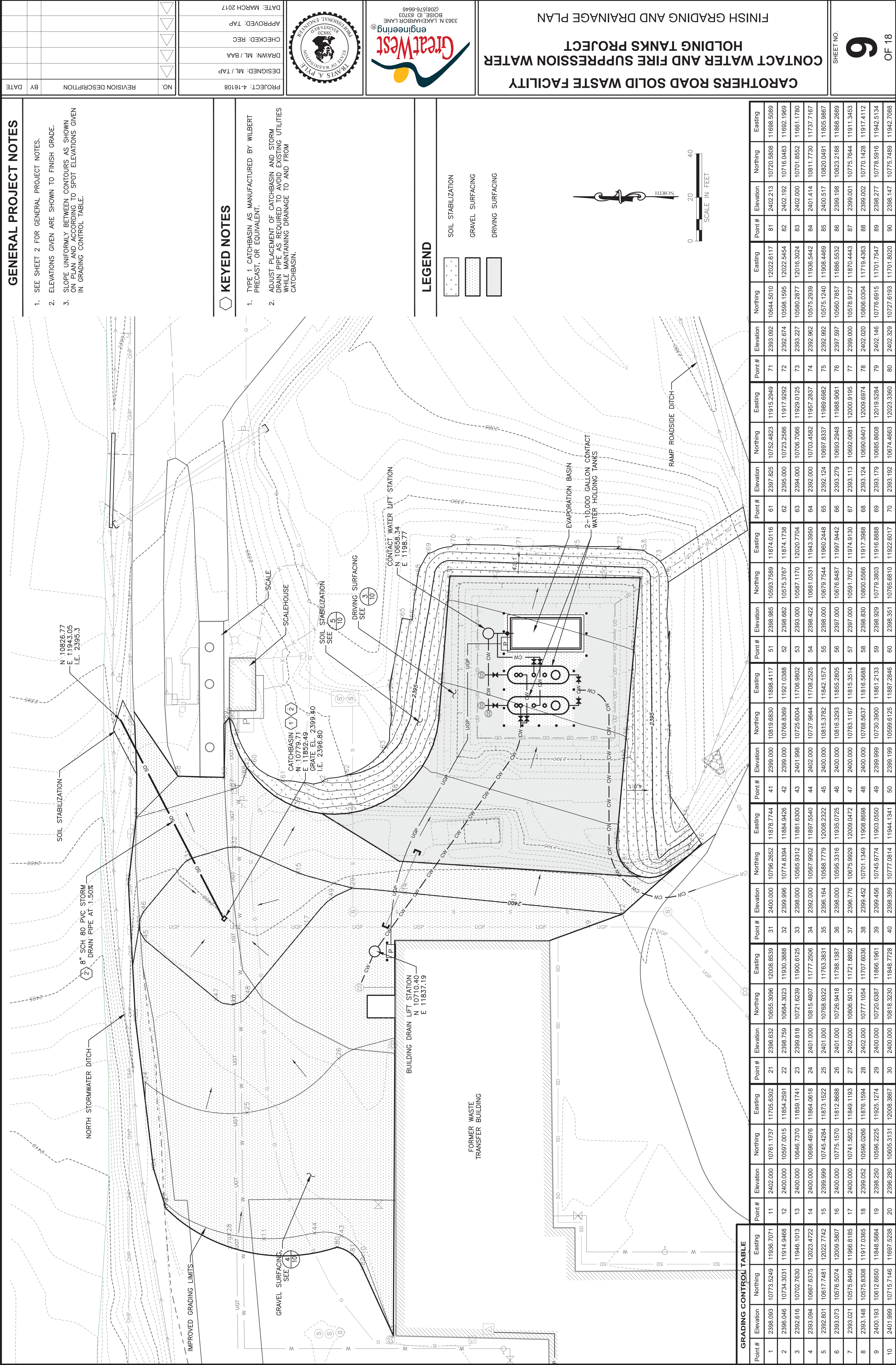
3. COORDINATE TANK PIPE CONNECTIONS AND VENT WITH TANK SUPPLIER AND ADJUST PIPE ALIGNMENTS ACCORDINGLY.

SHEET NOTES

1. SEE SHEET 2 FOR GENERAL PROJECT NOTES.

2. FOR FINISH GRADE, BLEND IN CRUSHED SURFACING AGGREGATE TO SURROUNDING GRADE. FINISH TO BE SMOOTH AND PROVIDE POSITIVE DRAINAGE TOWARD STORMWATER POND #1.





SHEET NO. **10** OF 18



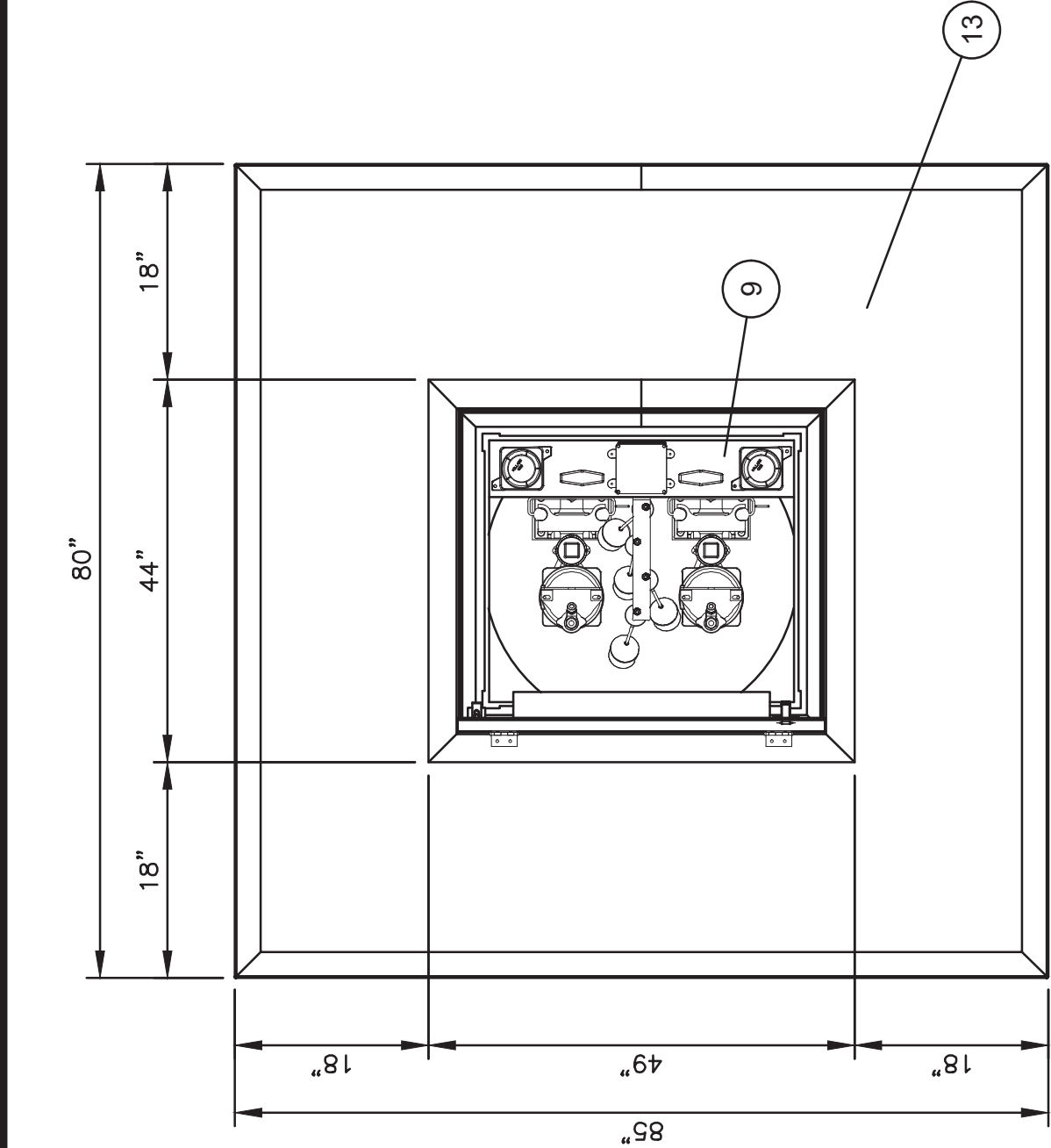
4 GRVEL SURFACING DETAIL
10 NOT TO SCALE



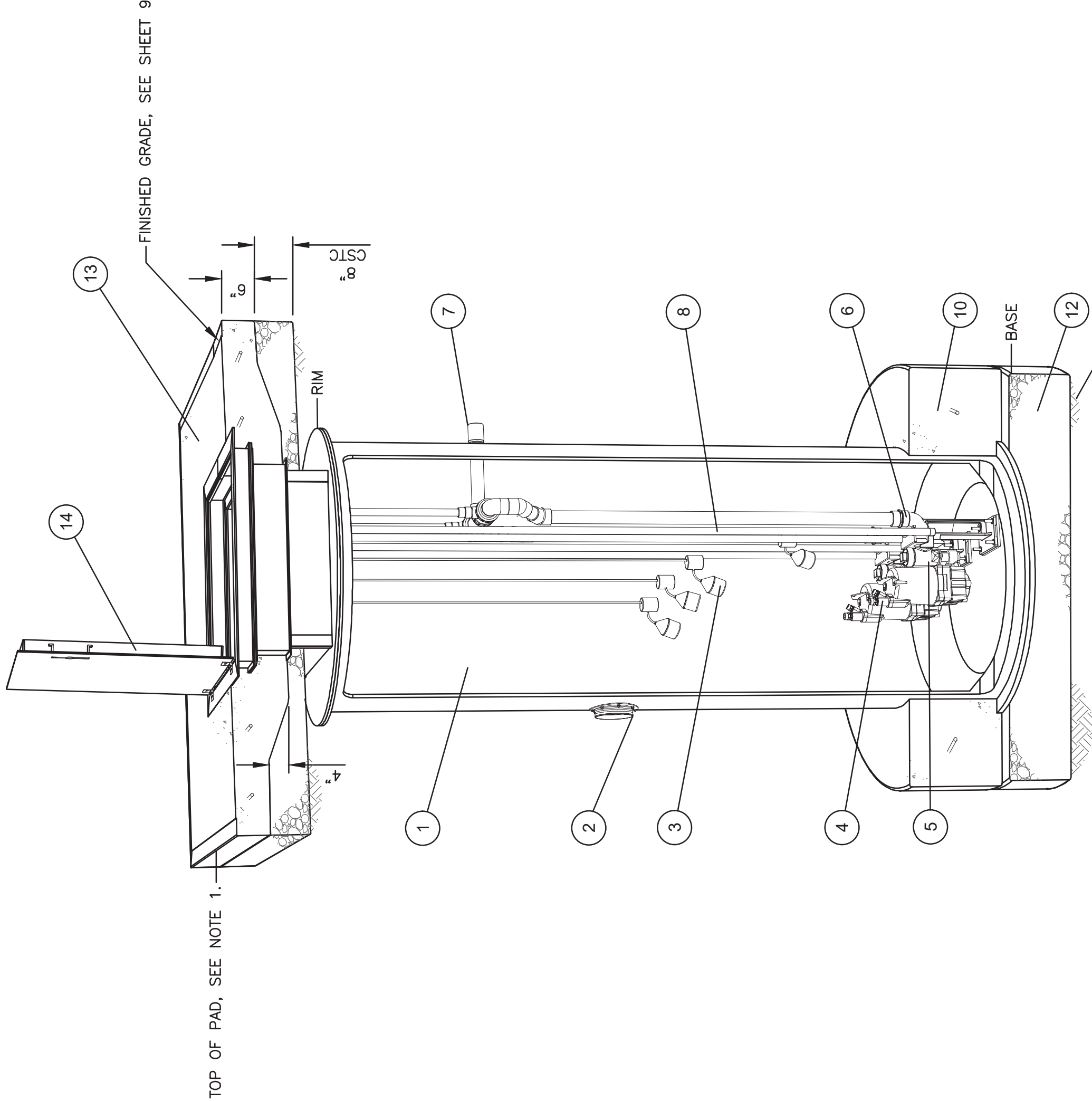
5 SOIL STABILIZATION DETAIL
10 NOT TO SCALE



BOLLARD DETAIL



PLAN



ISOMETRIC

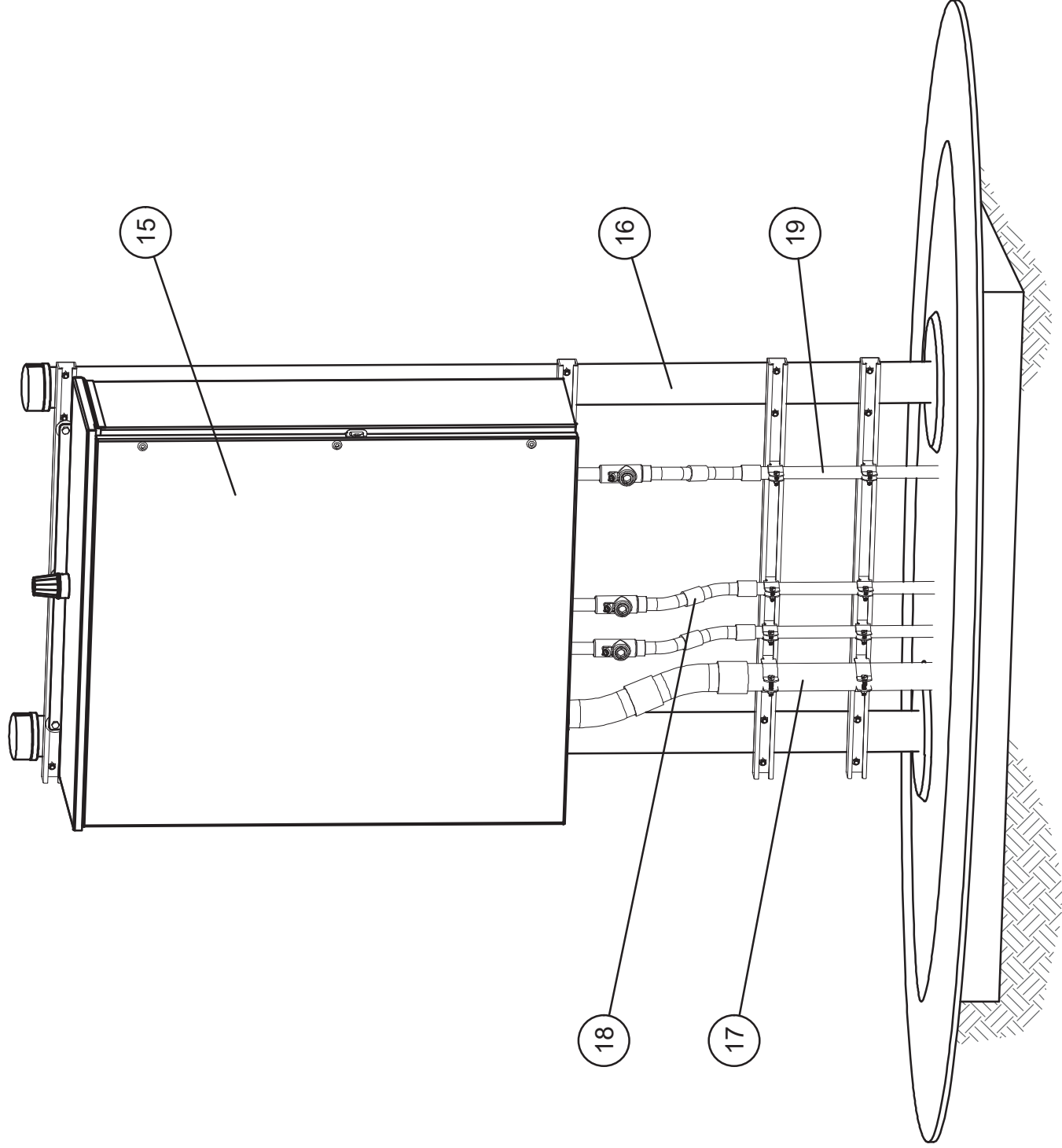
NOTES:

1. PROVIDE 1" MIN GRAVEL LIP AROUND PERIMETER OF CONCRETE PAD ON UPHILL SIDE. SPREAD AND GRADE TO MATCH FINISH GRADE.

CONTACT WATER LIFT STATION

1 11 NOT TO SCALE

NO.	ELEV.	DESCRIPTION
1	2386.33	48 IN X 174 IN FRP WET WELL
	2381.87	RIM-SEE DRAWING, ADJUST FOR HATCH AND CONC. SLAB BASE
2	2386.50	IE - INLET HUB FOR 6 IN SDR17 HDPE PIPE (9:00 POSITION)
3		LEVEL SWITCHES-LEVELS SET BY PUMP STATION MANUFACTURER AND APPROVED BY ENGINEER.
4		MYERS SX200H PUMP, 2 HP, 200V/3 (X2)
5		EXPLOSION-PROOF, 30 GPM @ 30 FT TDH (EACH)
6		2 IN BALL CHECK VALVE - REMOVABLE WITH PUMP
7		2 IN DISCHARGE ELBOW ASSEMBLY
8		2 IN SCHEDULE 80 PVC DISCHARGE (6:00 POSITION)
9		STAINLESS STEEL SLIDE RAILS
10		OPERATION DECK - JUNCTION BOXES - VALVE OPERATORS
		REINFORCED CONCRETE ANTI-FLOTATION RING (24" IN WIDE X 12" IN DEEP)
11		PREPARED SUBGRADE
12		12 IN COMPACTED STRUCTURAL BASE (CSTC-OWNER SUPPLIED)
13		CONCRETE SLAB REINFORCED WITH #4 BAR, 12 IN O.C.E.W
14		TRAFFIC RATED ALUMINUM HATCH WITH SKIRT (HALLIDAY H1R)
15		DUPLEX ALTERNATING CONTROL PANEL
16		PANEL RACK AND CONDUITS
17		SUPPLY POWER CONDUIT
18		PUMP CONDUIT (X2)
19		LEVEL SWITCH CONDUIT



NOTES:

1. COORDINATE PANEL MOUNTING WITH OWNER'S ELECTRICIAN, WHO WILL PROVIDE PAD AND ELECTRICAL RACK ASSEMBLY.
2. OWNER'S ELECTRICIAN TO PROVIDE ALL ELECTRICAL AND MONITORING CONTROL CONDUITS AND WIRE.

CONTROL PANEL RACK

2 11 NOT TO SCALE

CAROTHERS ROAD SOLID WASTE FACILITY
CONTACT WATER AND FIRE SUPPRESSION WATER
HOLDING TANKS PROJECT
CONTACT WATER LIFT STATION DETAILS

SHEET NO.

11

OF 18

PROJECT: 4-16108
DESIGNED: ML / BAA
DRAWN: ML / BAA
CHECKED: REC
APPROVED: TAP
DATE: MARCH 2017

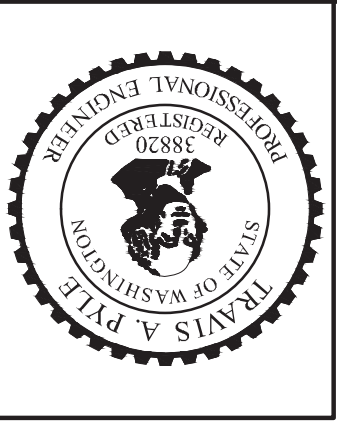


NO.	REVISION DESCRIPTION	BY	DATE

ITEM	DESCRIPTION
1	XERXES 10,000 GALLON TANK - 8 FT DIAMETER, DOUBLE WALL (X2)
2	12 FOOT DEADMEN WITH TURNBUCKLES & STRAPS - TYP OF 2
3	16 FOOT DEADMEN WITH TURNBUCKLES & STRAPS - TYP OF 2
4	4 INCH NPT MONITORING FITTING
5	4 INCH RISER CONDUIT WITH JUNCTION BOX
6	ELECTRICAL HAND HOLE (PRECAST CONCRETE)
7	CONDUIT TO ALARM PANEL (SEE NOTES)
8	4 INCH HALF COUPLING - VENT
9	4 INCH SCREENED VENT (STAINLESS STEEL)
10	2 INCH FLANGED NOZZLE - LIFT STATION DISCHARGE
11	2 INCH FLANGED NOZZLE - WTB CONTACT WATER PRESSURE PIPE INLET
12	2 INCH FLANGED NOZZLE - BUILDING DRAIN LIFT STATION INLET
13	4 INCH FLANGED NOZZLE - OUTLET
14	24 INCH ACCESS RISER AND COVER

NO.	REVISION DESCRIPTION	BY	DATE

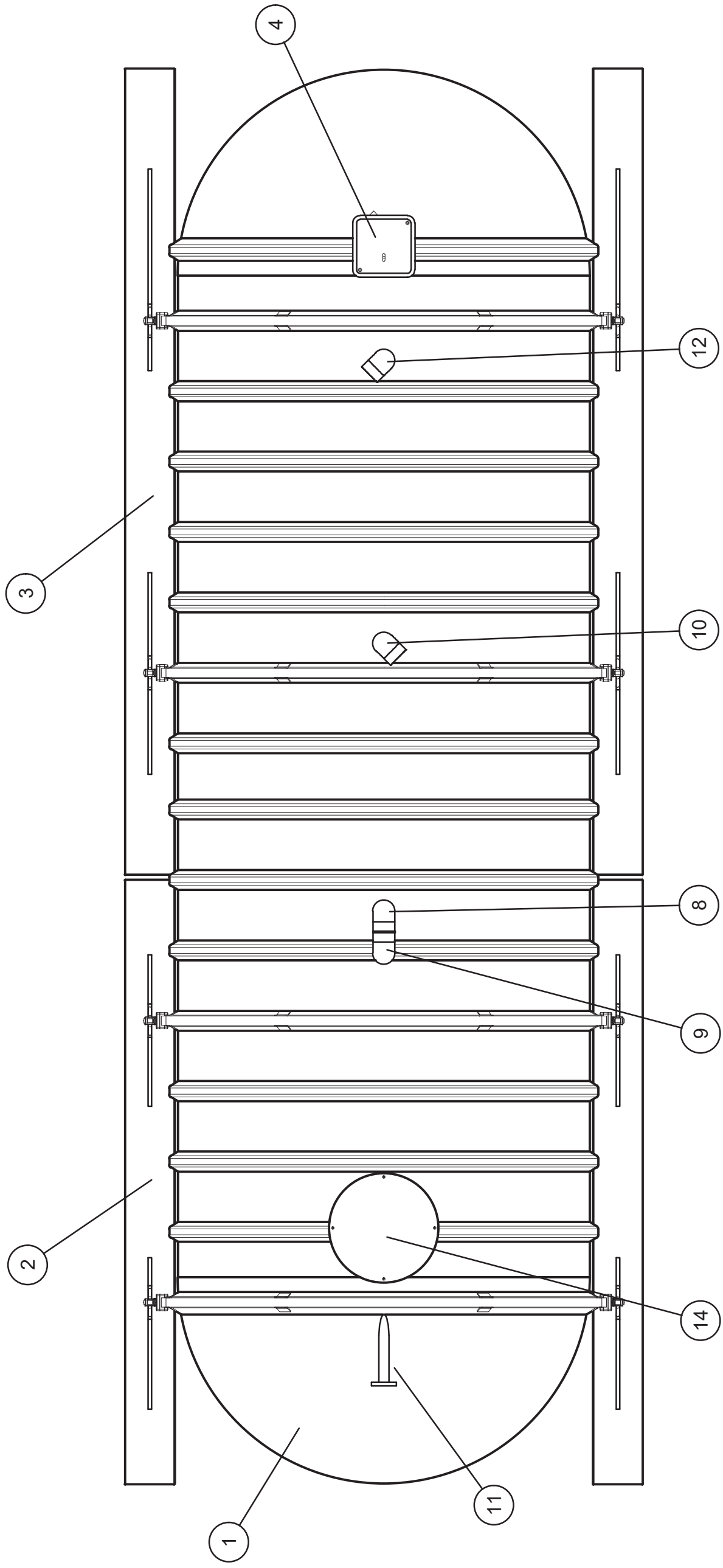
PROJECT: 4-16108	DESIGNED: ML / TAP	DRAWN: ML / BAA	CHECKED: REC	APPROVED: TAP	DATE: MARCH 2017
------------------	--------------------	-----------------	--------------	---------------	------------------



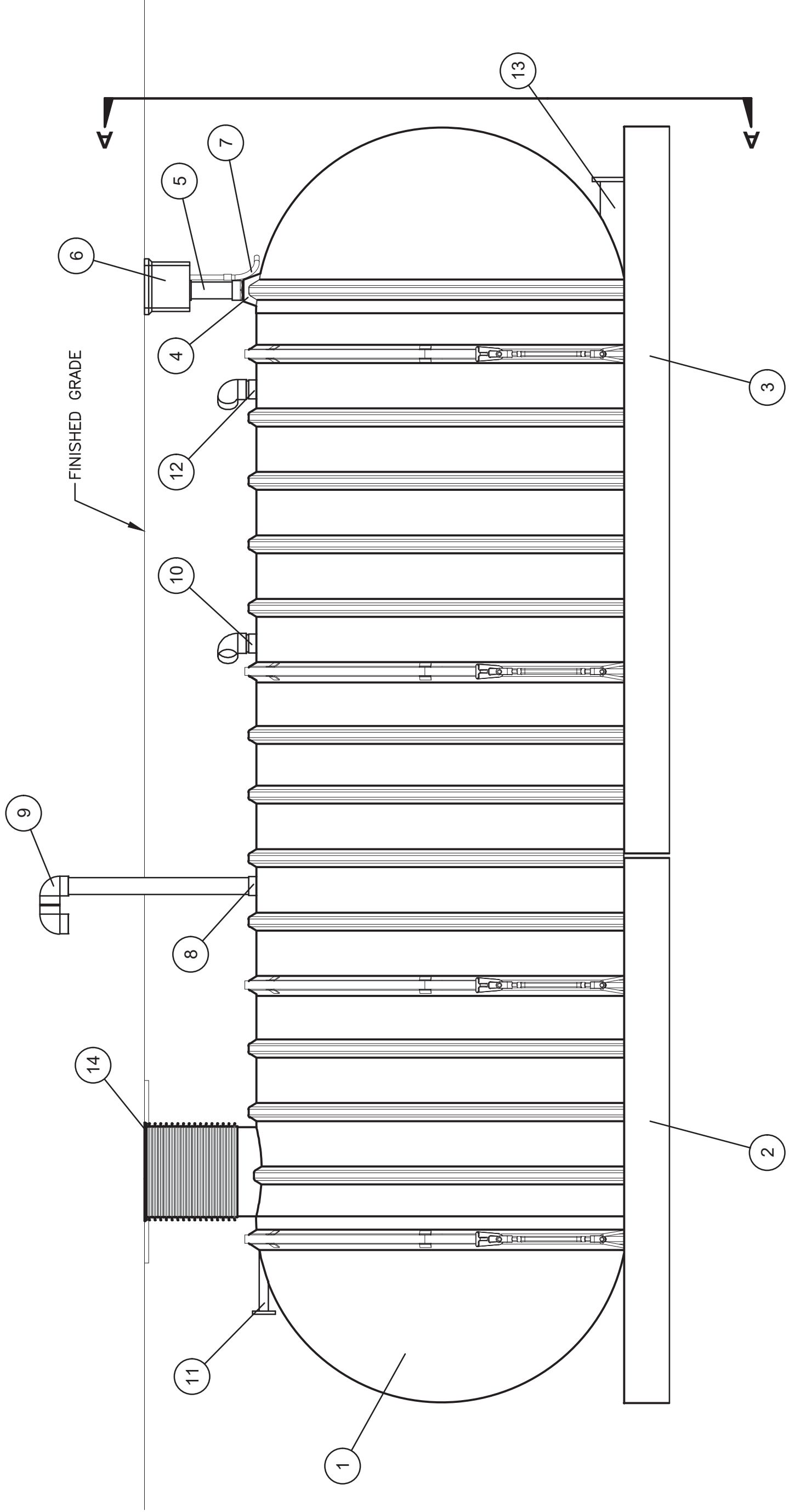
CAROTHERS ROAD SOLID WASTE FACILITY

CONTACT WATER AND FIRE SUPPRESSION WATER HOLDING TANKS PROJECT

CONTACT WATER TANK DETAILS



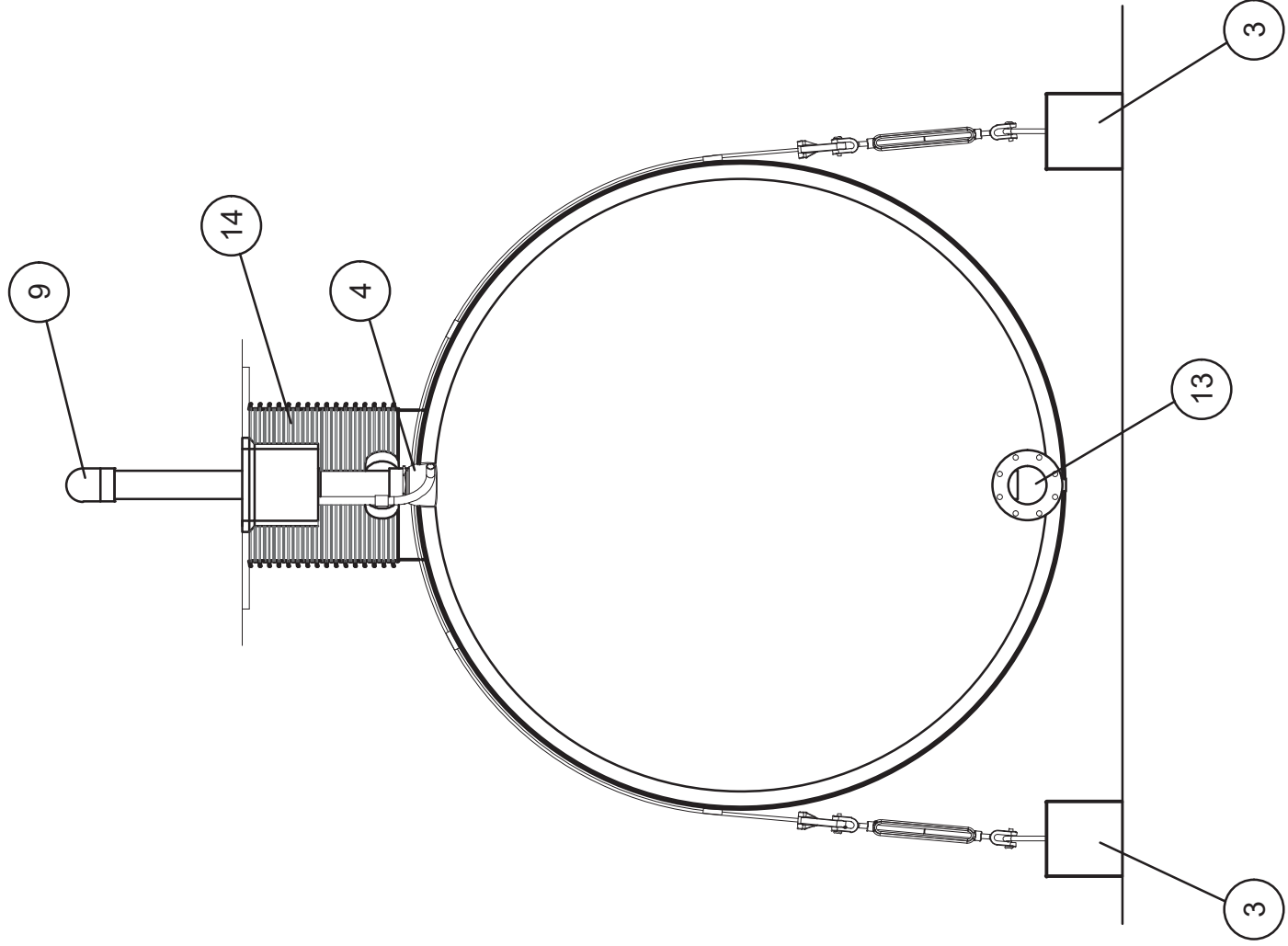
PLAN



ELEVATION

NOTES:

- COORDINATE ARRANGEMENT OF FITTINGS AND ATTACHMENTS WITH SHEET 5.
- PROVIDE 4" SCHEDULE 40 PVC VENT PIPING (BURIED) AND TRANSITION TO 4" SST AT VERTICAL ELBOW TO SURFACE. PROVIDE GOOSE-NECK ELBOW 30" ABOVE GROUND WITH SCREENED OPENING.
- COORDINATE PANEL MOUNTING WITH OWNER'S ELECTRICIAN, WHO WILL PROVIDE PAD AND ELECTRICAL RACK ASSEMBLY.
- OWNER'S ELECTRICIAN TO PROVIDE ALL ELECTRICAL AND MONITORING CONTROL CONDUITS AND WIRE.



SECTION A-A

NO.	REVISION DESCRIPTION	BY	DATE

PROJECT: 4-16108	DESIGNED: ML / TAP	DRAWN: ML / BAA	CHECKED: REC	APPROVED: TAP	DATE: MARCH 2017
------------------	--------------------	-----------------	--------------	---------------	------------------

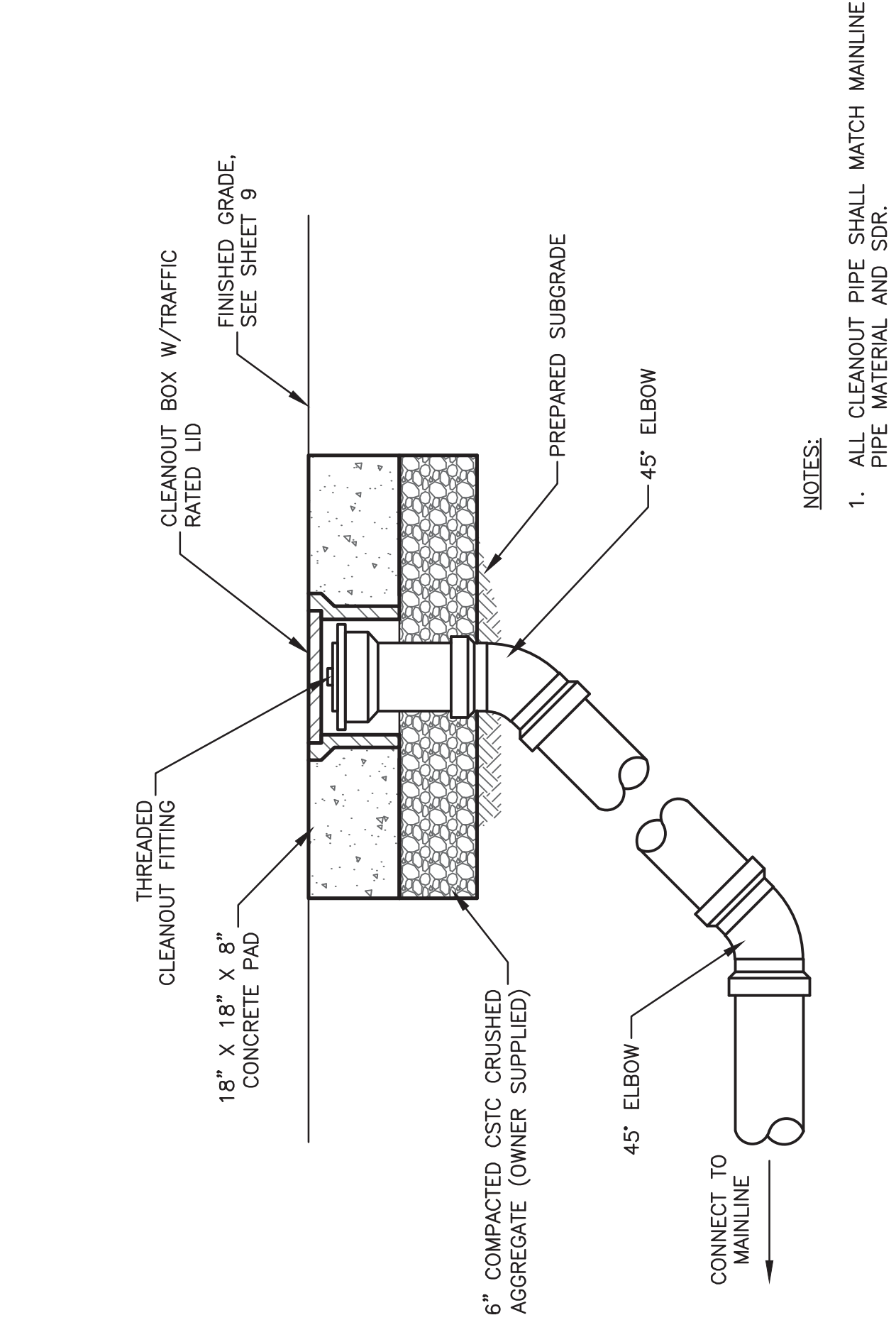


CAROTHERS ROAD SOLID WASTE FACILITY

CONTACT WATER AND FIRE SUPPRESSION WATER

CONTACT WATER TANKS PROJECT

CONTACT WATER TANK DETAILS

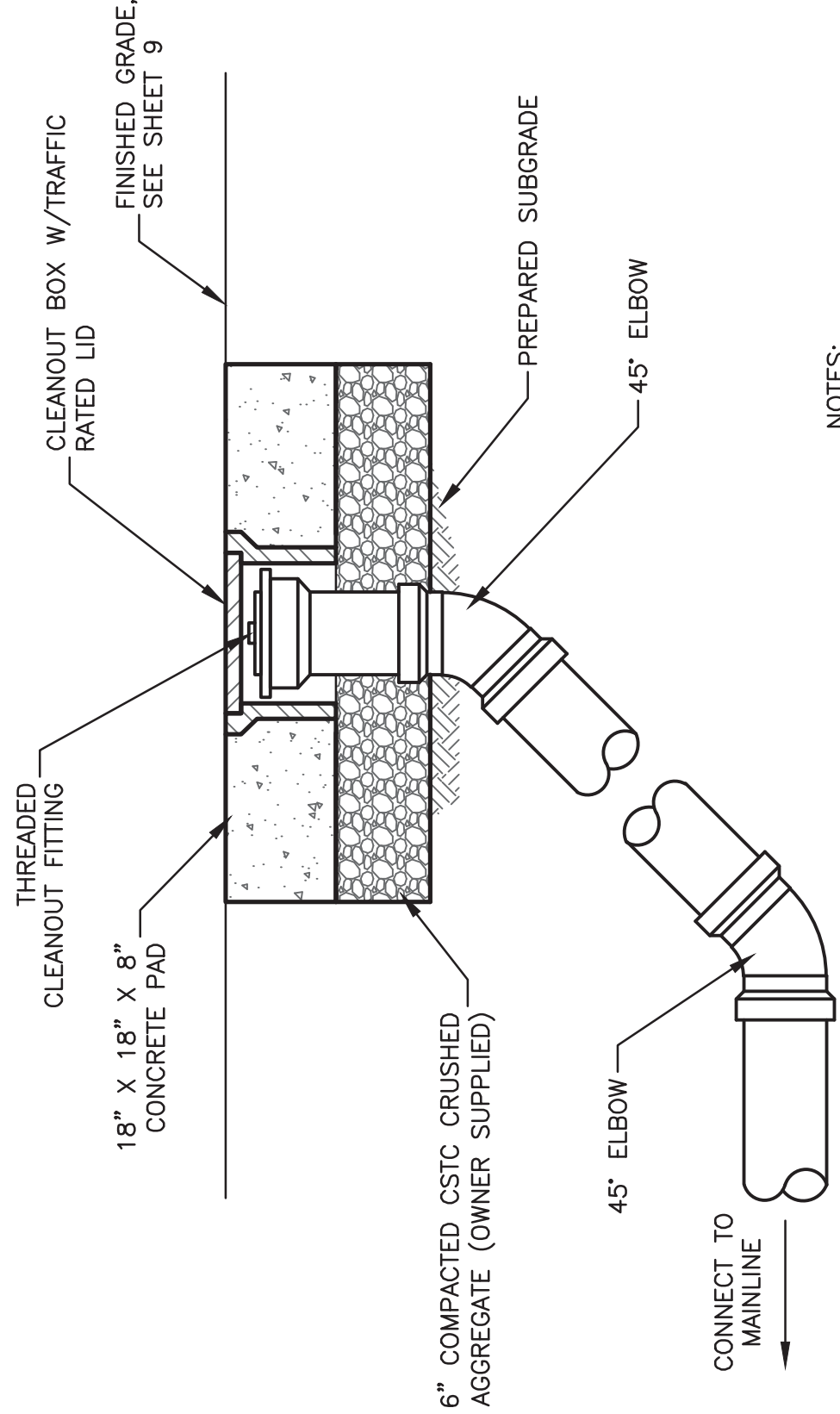


- NOTES:
- ALL CLEANOUT PIPE SHALL MATCH MAINLINE PIPE MATERIAL AND SDR.

1

BURIED SERVICE VALVE

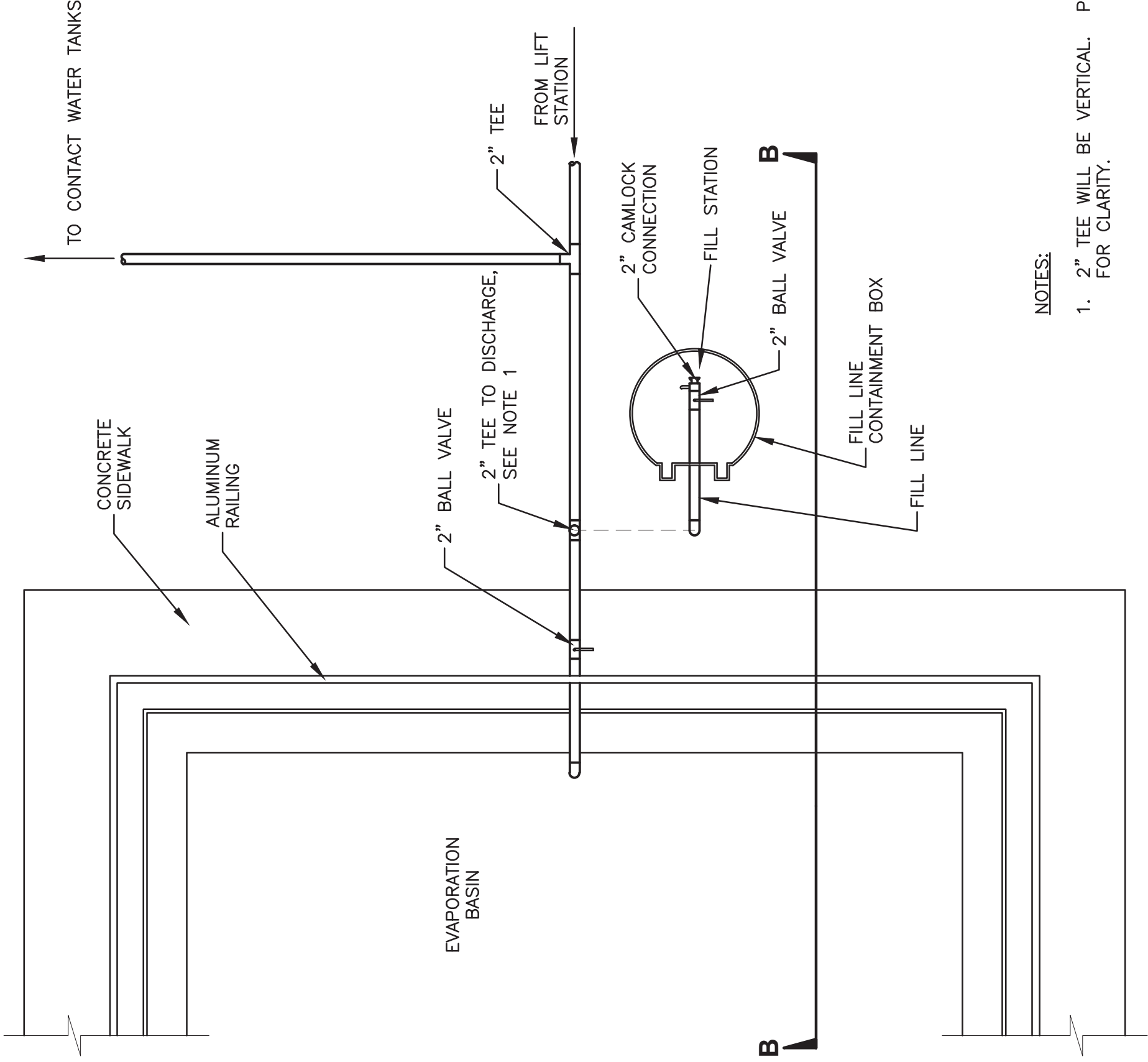
NOT TO SCALE



2

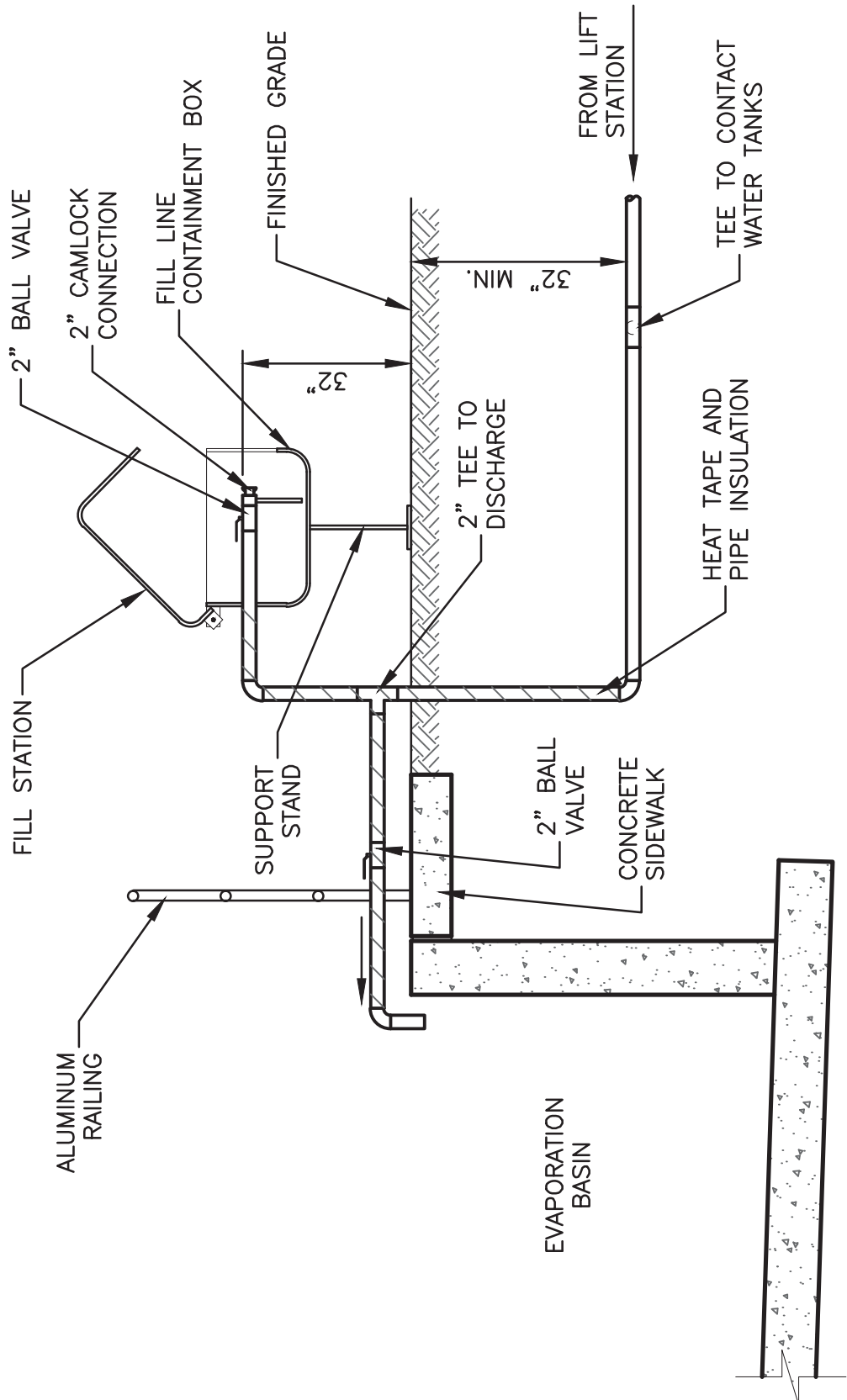
CLEANOUT TO GRADE DETAIL

NOT TO SCALE



- NOTES:
- 2" TEE WILL BE VERTICAL. PIPING AND VALVES SHOWN OFFSET FOR CLARITY.

PLAN



SECTION B-B

3

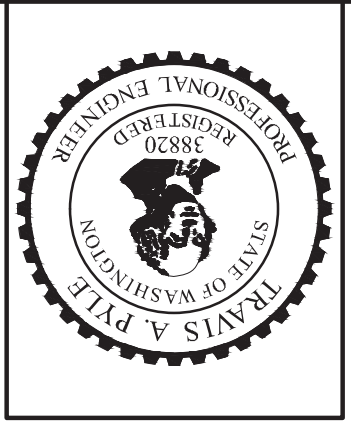
EVAPORATION BASIN PIPING DETAIL

NOT TO SCALE

ITEM	DESCRIPTION
1	XERXES 15,000 GALLON RESERVIOR TANK, 8 FT DIAMETER
2	16 FOOT DEADMEN WITH TURNBUCKLES & STRAPS - TYP OF 4
3	12 FOOT DEADMEN WITH TURNBUCKLES & STRAPS - TYP OF 2
4	6 INCH BOOSTER PUMP W/ET WELL
5	2 INCH HALF COUPLING - FILL WATER
6	6 INCH HALF COUPLING
7	6 INCH SCREENED VENT (STAINLESS STEEL)
8	6 INCH COUPLING WITH SUCTION PIPE - DRAFT TUBE (SST)
9	24 X 24 OLDCASTLE/CARSON 24 SERIES VAULT
10	6 INCH CAP WITH 1 INCH CONDUIT CONECTION
11	24 INCH ACCESS RISER AND COVER
12	AY MCDONALD PUMP, 2 HP, 208V/3 (CONNECT TO HOSE REEL)
13	1.5 INCH FITTLESS ADAPTER WITH FIPT DISCHARGE
14	2 INCH HYDRANT ADAPTER WITH DUST CAP - VERIFY CONFIGURATION WITH OWNER

NO.	REVISION DESCRIPTION	BY	DATE

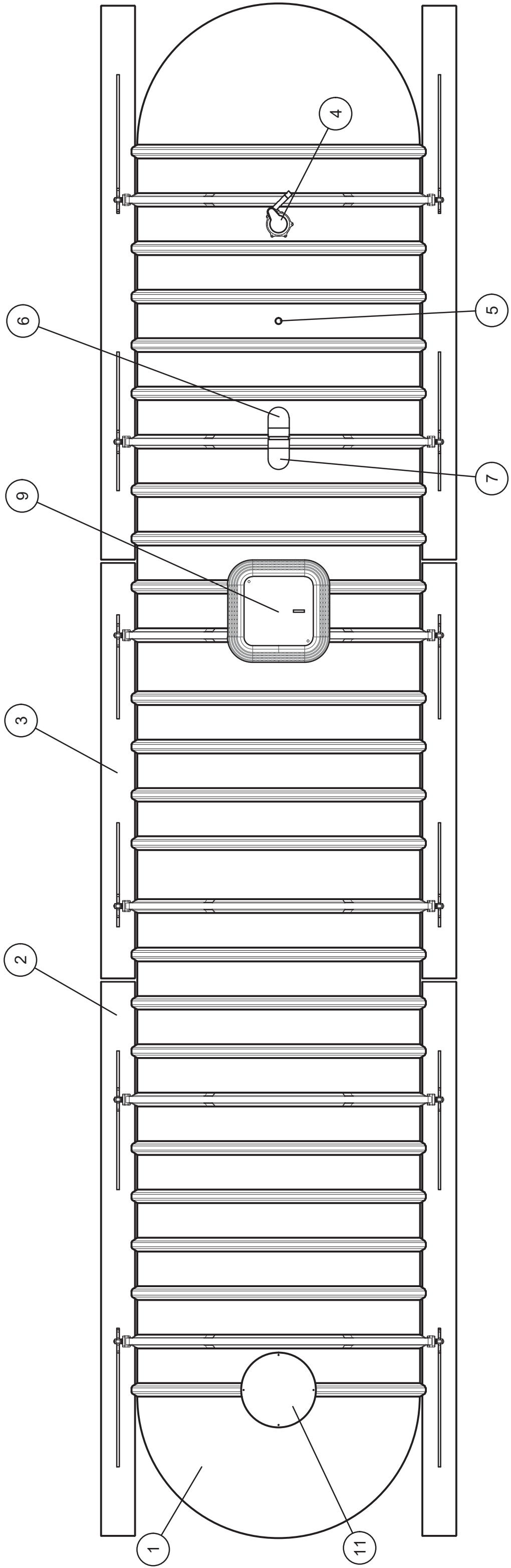
PROJECT: 4-16108	DESIGNED: ML / TAP	DRAWN: ML / BAA	CHECKED: REC	APPROVED: TAP	DATE: MARCH 2017
------------------	--------------------	-----------------	--------------	---------------	------------------



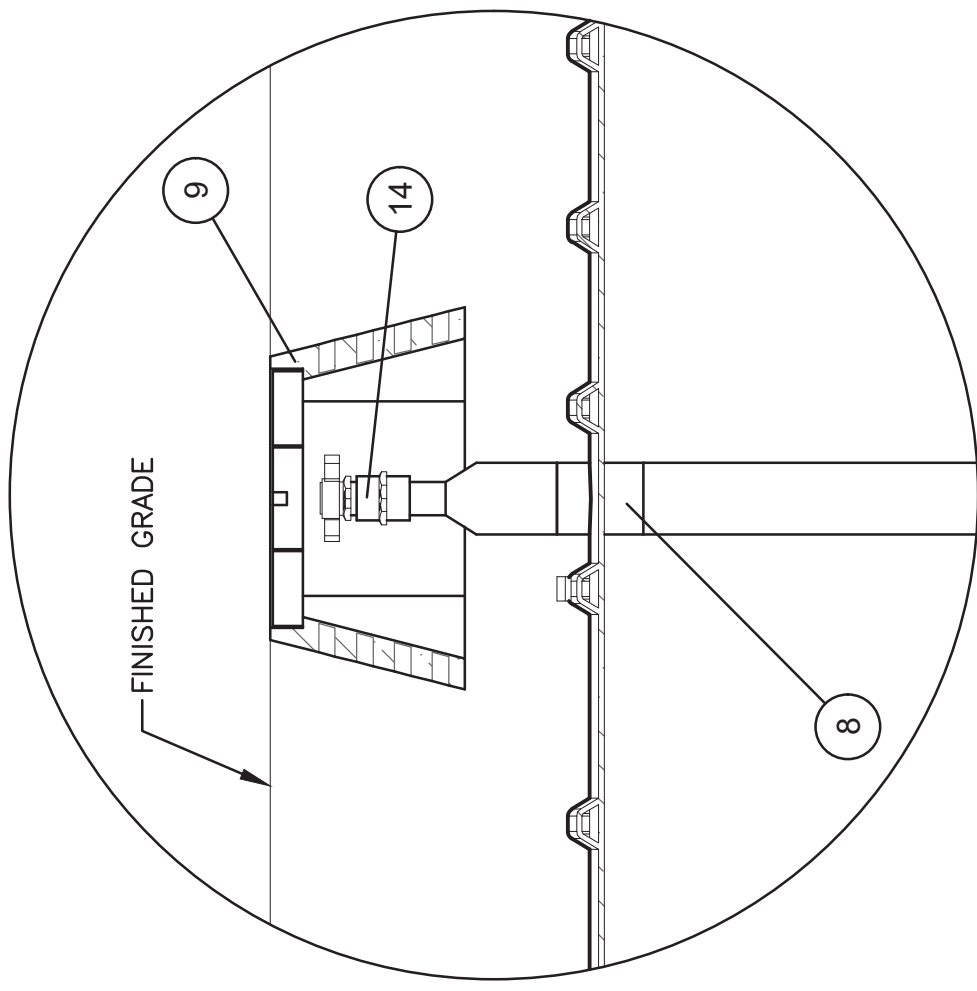
CAROTHERS ROAD SOLID WASTE FACILITY

CONTACT WATER AND FIRE SUPPRESSION WATER

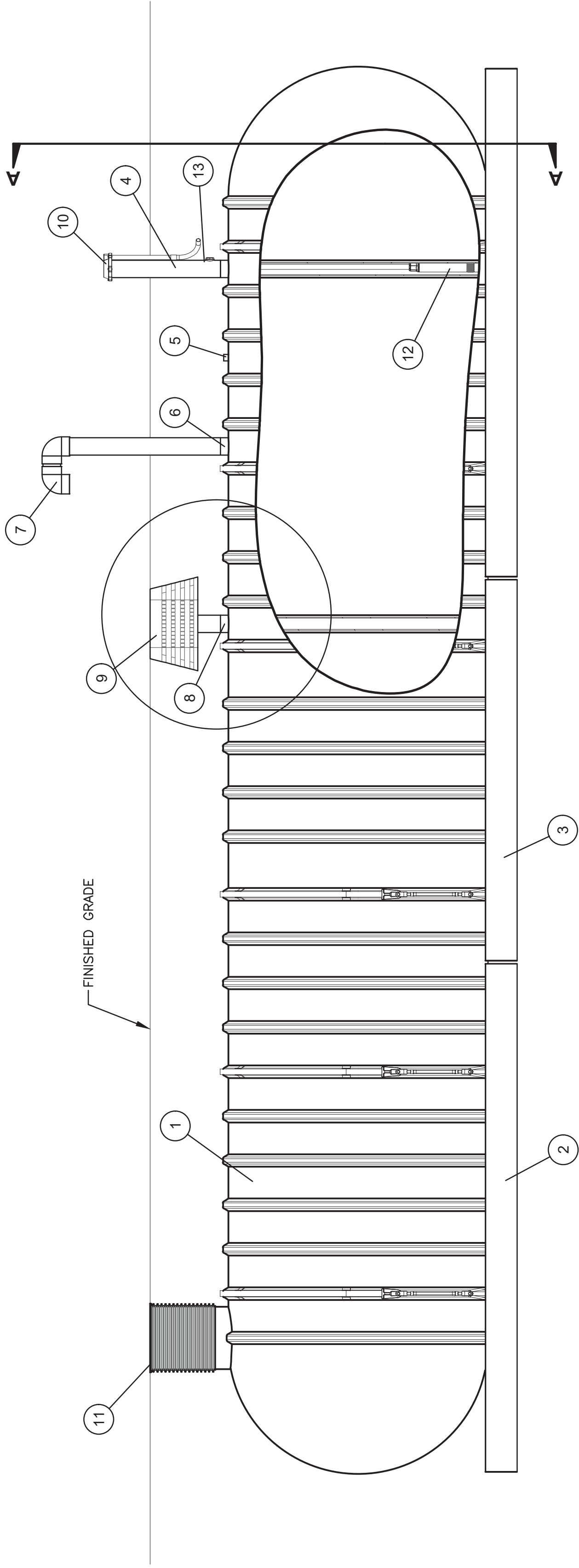
FIRE SUPPRESSION WATER HOLDING TANK DETAILS



PLAN



SUCTION/DRAW PIPE DETAIL



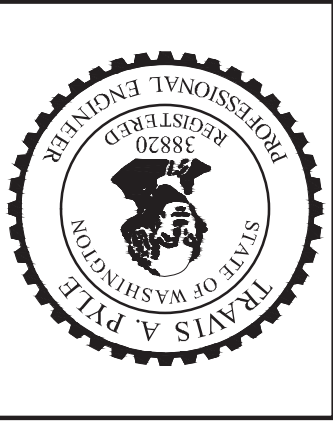
ELEVATION

SECTION A-A

- NOTES:
- COORDINATE ARRANGEMENT OF FITTINGS AND ATTACHMENTS WITH SHEET 7.
 - PROVIDE 4" SCHEDULE 40 PVC VENT PIPING (BURIED) AND TRANSITION TO 4" SST AT VERTICAL ELBOW TO SURFACE. PROVIDE GOOSE-NECK ELBOW 30" ABOVE GROUND WITH SCREENED OPENING.
 - COORDINATE PANEL MOUNTING WITH OWNER'S ELECTRICIAN, WHO WILL PROVIDE PAD AND ELECTRICAL RACK ASSEMBLY.
 - OWNER'S ELECTRICIAN TO PROVIDE ALL ELECTRICAL AND MONITORING CONTROL CONDUITS AND WIRE.

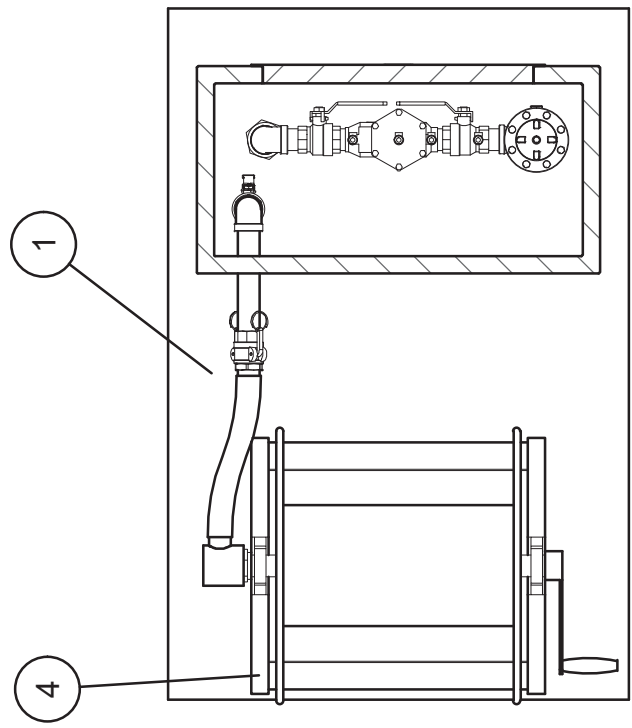
ITEM	DESCRIPTION
1	FABRICATED STEEL SKID, EPOXY COATING
2	SAFETYCOVER 100SNT-AL VALVE BOX, WITH 120V HEAT TRACE
3	CONTROL PANEL, 2 HP, 230V/3, 120V/1 CONTROL POWER, MANUAL WASHDOWN ON/OFF, AUTOMATIC TANK FILL
4	HOSE REEL, W/1.5 IN X 100 FT HOSE
5	1.5 IN CLAVAL SOLENOID FILL VALVE
6	1.5 IN BACKFLOW PREVENTER
7	1.5 IN SCH 40 STAINLESS STEEL MANIFOLD WITH ISOLATION BALL VALVE
8	1.5 IN SCH 40 STAINLESS STEEL DISCHARGE MANIFOLD, ISOLATION VALVE, CAMLOCK DISCONNECT FOR DRAINING AND WINTERIZATION

PROJECT: 4-16108	DESIGNED: ML / TAP	DRAWN: ML / BAA	CHECKED: REC	APPROVED: TAP	DATE: MARCH 2017
------------------	--------------------	-----------------	--------------	---------------	------------------

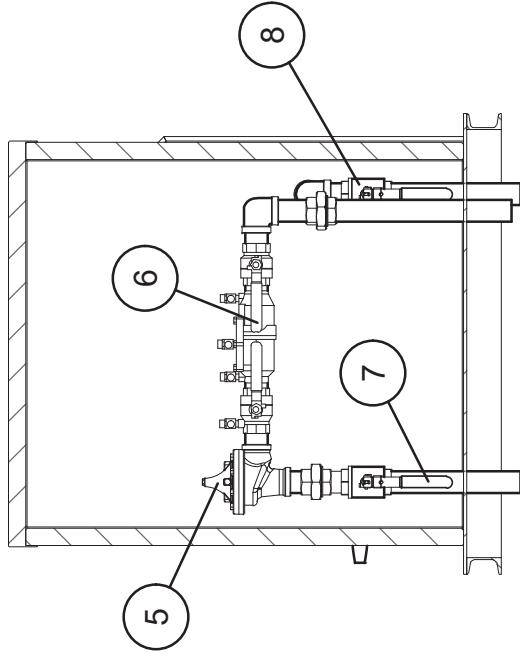


CAROTHERS ROAD SOLID WASTE FACILITY
CONTACT WATER AND FIRE SUPPRESSION PROJECT
HOLDING TANKS PROJECT
FIRE SUPPRESSION WATER HOLDING TANK DETAILS

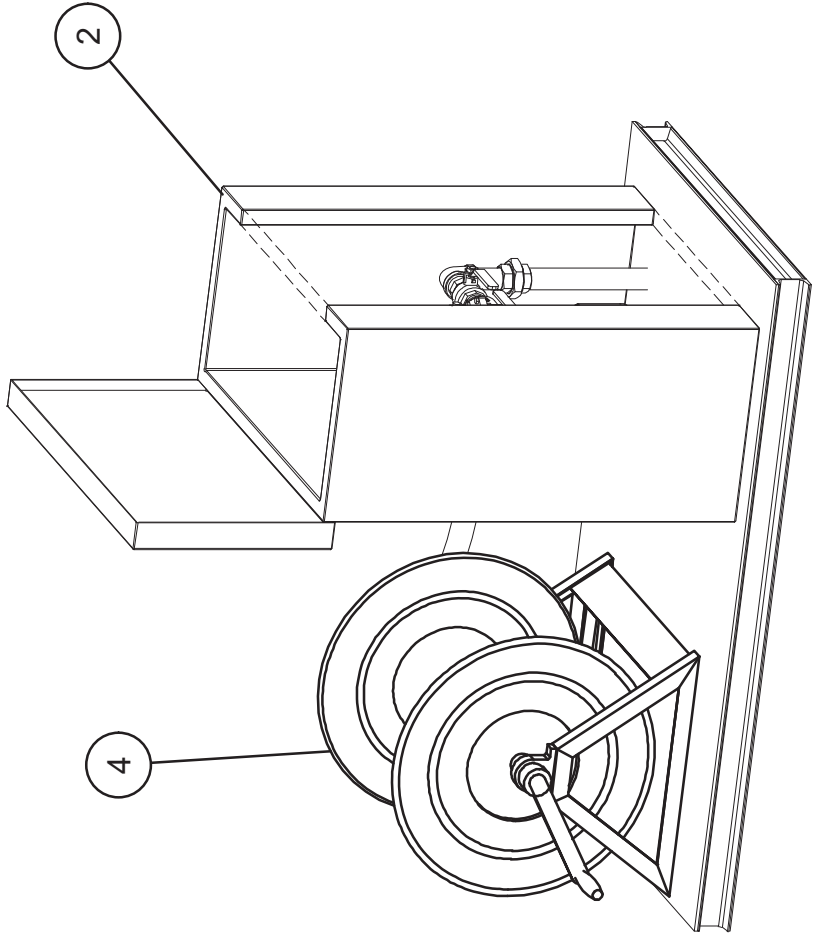
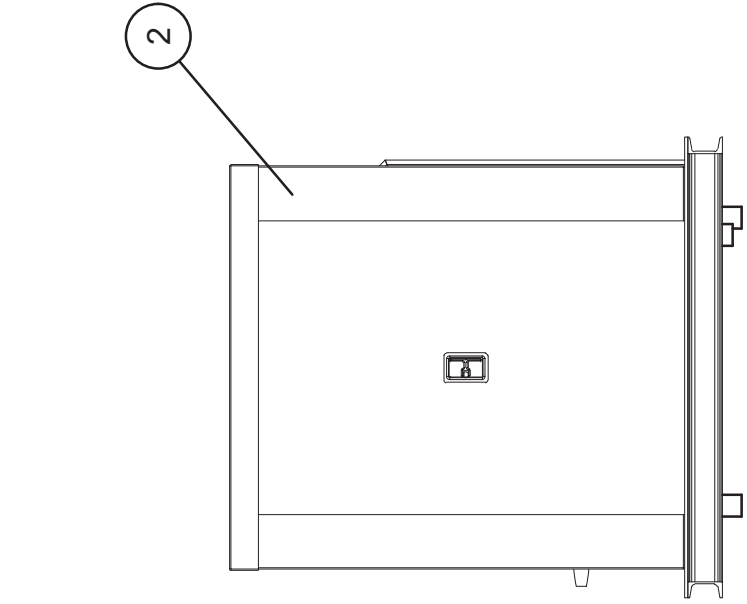
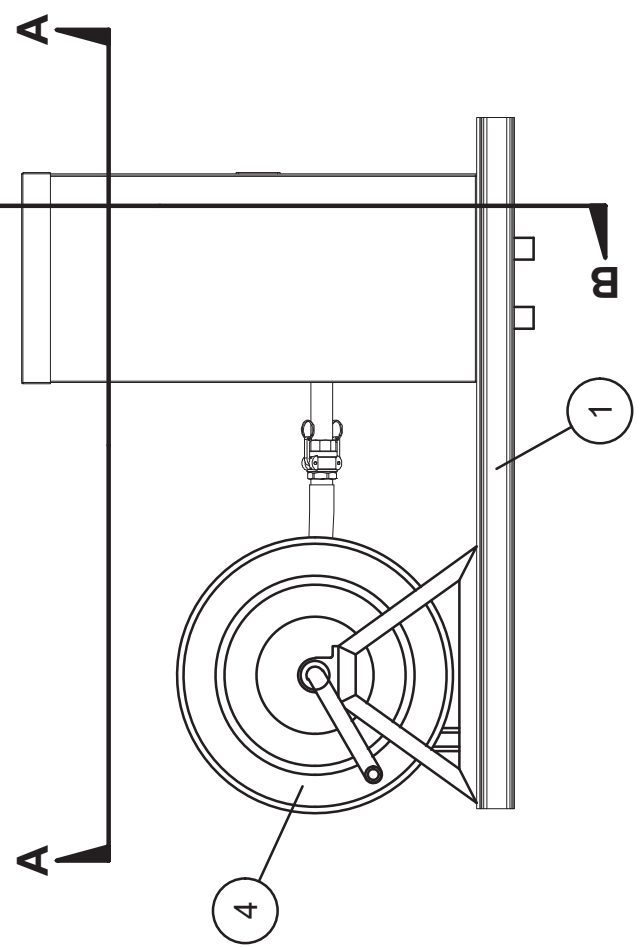
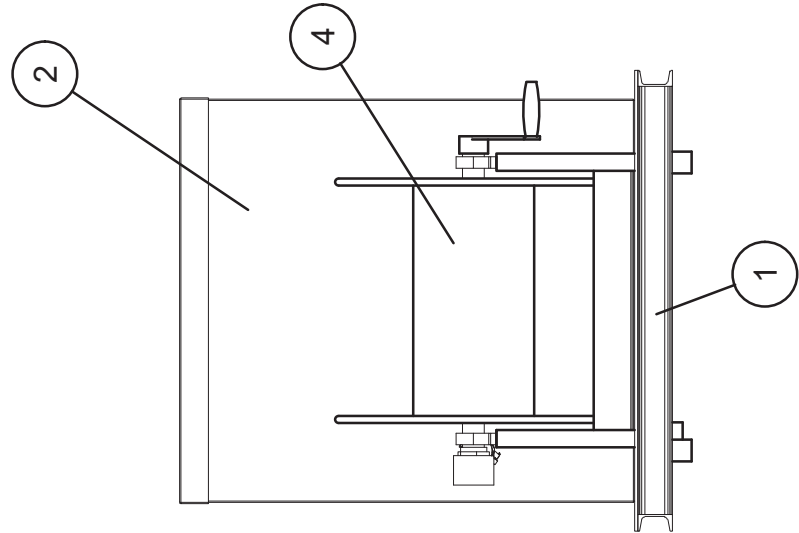
SHEET NO. **15** OF 18



SECTION A-A



SECTION B-B

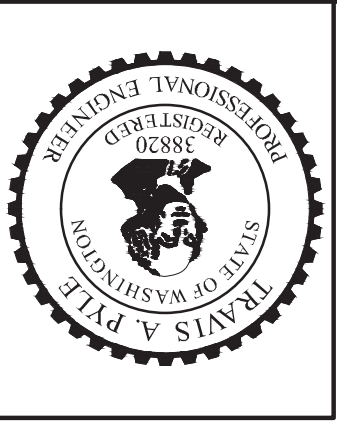


1. MOUNT ASSEMBLY ON ELECTRICIANS PAD. COORDINATE WITH ELECTRICIAN FOR ALL PLUMBING.
2. MOUNT PUMP CONTROL PANEL ON ELECTRICIANS PAD.
3. OWNER'S ELECTRICIAN TO PROVIDE ALL ELECTRICAL AND MONITORING CONTROL CONDUITS AND WIRE.

1 HEATED VALVE BOX/HOSE REEL SKID
15 NOT TO SCALE

NO.	ELEV.	DESCRIPTION	BY	DATE
1	2399.33	36 IN X 132 IN FRP WET WELL		
		RIM		
	2399.33	BASE		
2	2392.00	IE - 4 IN SDR35 PVC INLET 9:00 POSITION (NOT SHOWN)		
3		ELECTRICAL SPLICE BOX(ES)		
4		LEVEL SWITCHES-LEVELS SET BY PUMP STATION MANUFACTURER AND APPROVED BY ENGINEER.		
5		MYERS SX60 PUMP, 1/2 HP, 200V/3 (X2)		
6		EXPLOSION-PROOF, 20 GPM @ 20 FT TDH		
7		REINFORCED CONCRETE ANTI-FLOTATION RING (24 IN WIDE X 12 IN DEEP)		
8		12 IN COMPACTED STRUCTURAL BASE (CSTC-OWNER SUPPLIED)		
9		2 IN SCH 40 PVC DISCHARGE ASSEMBLY		
10		2 IN CHECK VALVE		
11		2 IN BALL VALVE		
12	2396.00	IE - 2 IN FIPT DISCHARGE 3:00 POSITION (HALLIDAY H1R)		
13		REINFORCED CONCRETE SLAB		
14		DUPLEX ALTERNATING CONTROL PANEL MOUNTED ON BUILDING		
15		SUPPLY POWER CONDUIT		
16		PUMP CONDUIT (X2)		
17		LEVEL SWITCH CONDUIT		

PROJECT: 4-16108	DESIGNED: ML / TAP	DRAWN: ML / BAA	CHECKED: REC	APPROVED: TAP	DATE: MARCH 2017
------------------	--------------------	-----------------	--------------	---------------	------------------



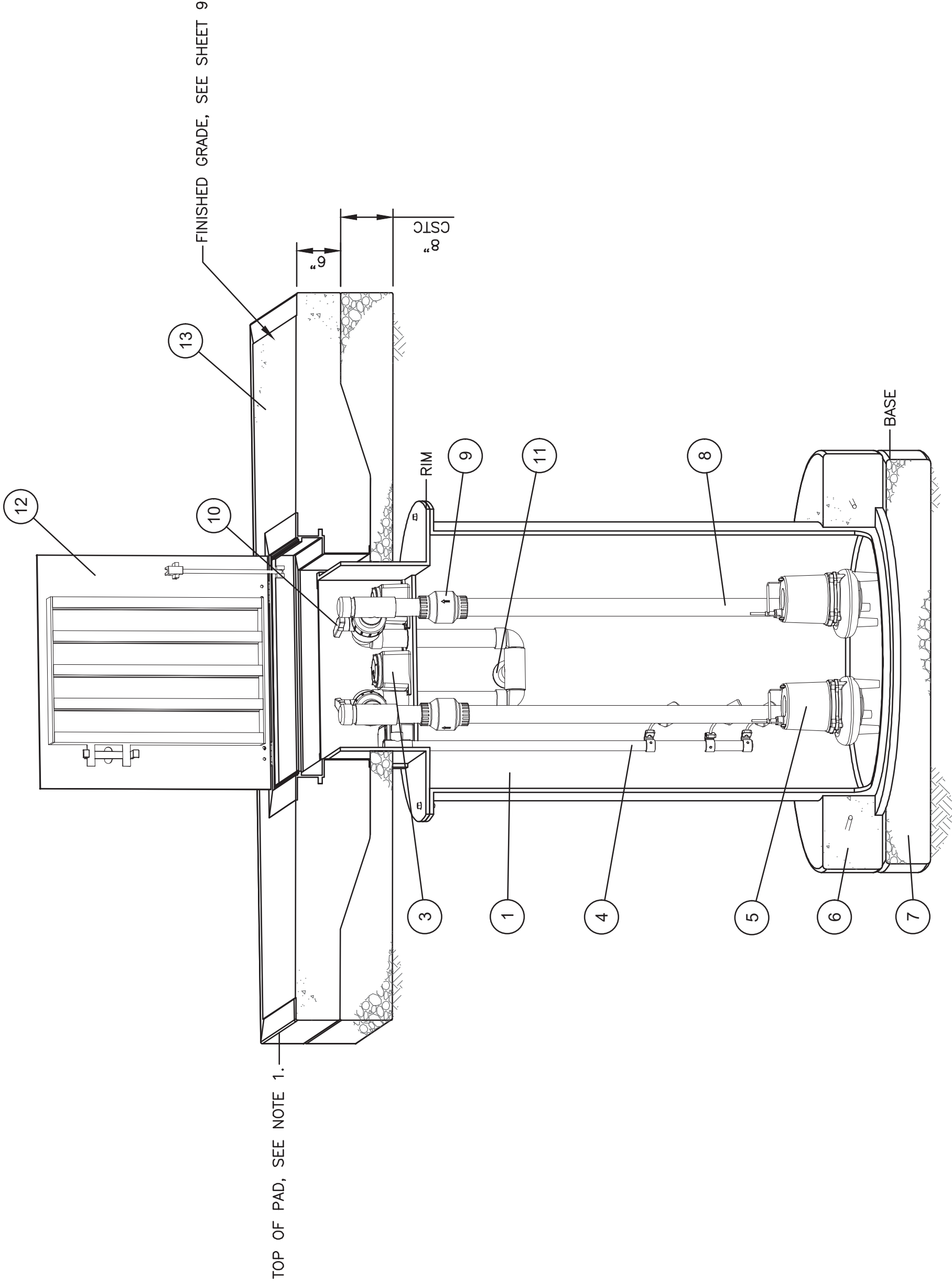
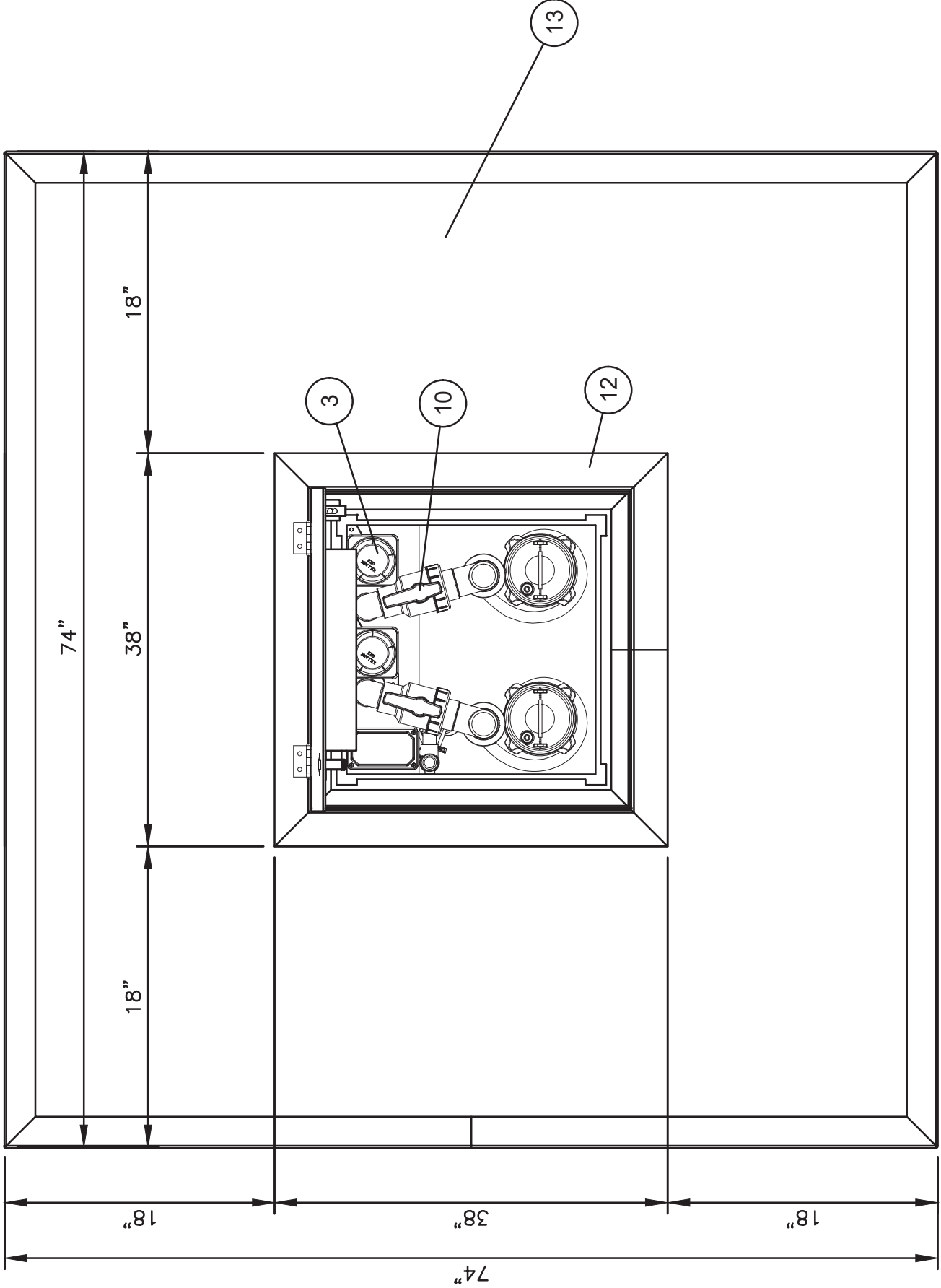
CAROTHERS ROAD SOLID WASTE FACILITY

CONTACT WATER AND FIRE SUPPRESSION WATER

BUILDING DRAIN LIFT STATION DETAILS

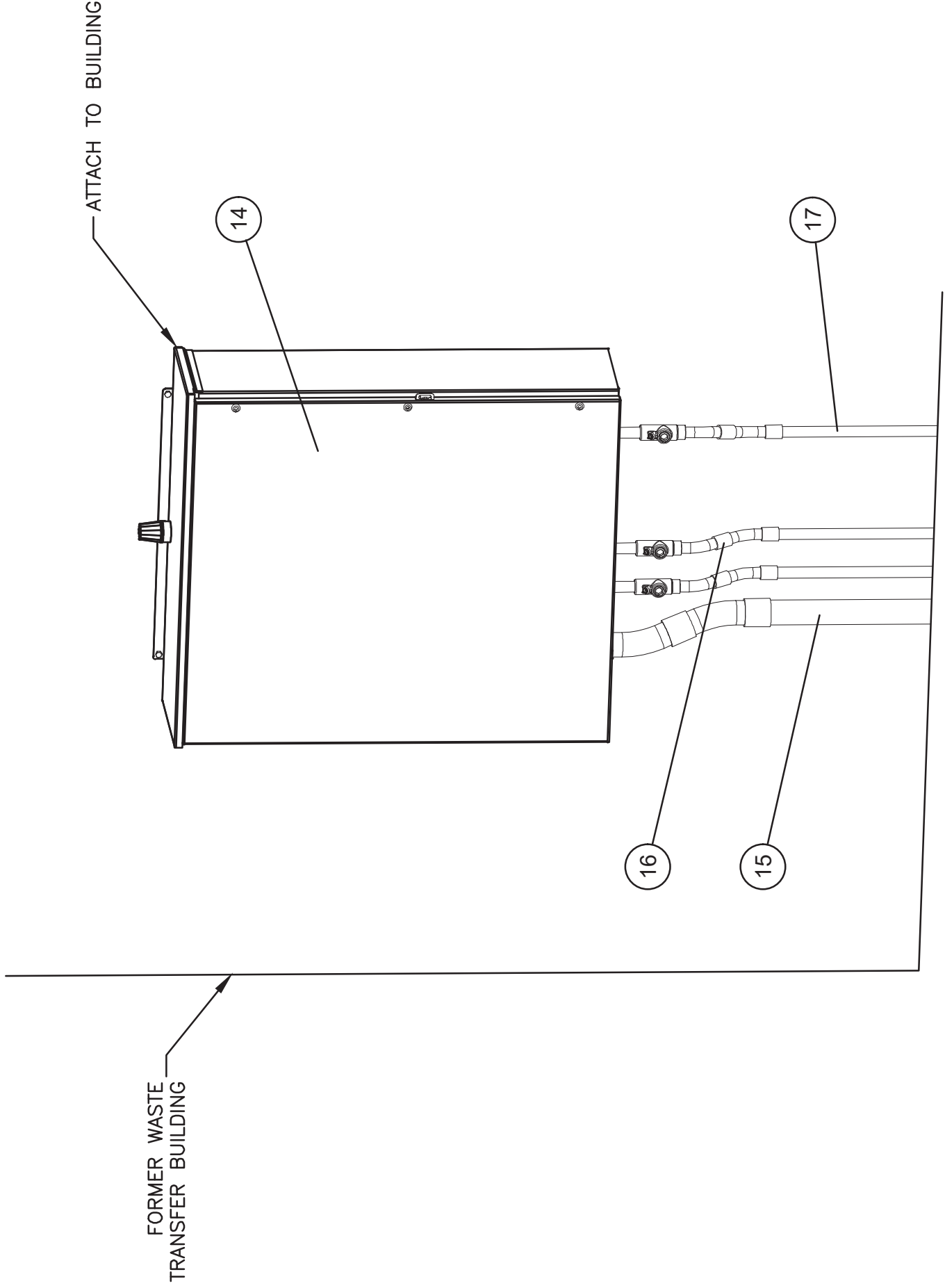
NO.	ELEV.	DESCRIPTION
1	2399.33	36 IN X 132 IN FRP WET WELL
		RIM
	2399.33	BASE
2	2392.00	IE - 4 IN SDR35 PVC INLET 9:00 POSITION (NOT SHOWN)
3		ELECTRICAL SPLICE BOX(ES)
4		LEVEL SWITCHES-LEVELS SET BY PUMP STATION MANUFACTURER AND APPROVED BY ENGINEER.
5		MYERS SX60 PUMP, 1/2 HP, 200V/3 (X2)
6		EXPLOSION-PROOF, 20 GPM @ 20 FT TDH
7		REINFORCED CONCRETE ANTI-FLOTATION RING (24 IN WIDE X 12 IN DEEP)
8		12 IN COMPACTED STRUCTURAL BASE (CSTC-OWNER SUPPLIED)
9		2 IN SCH 40 PVC DISCHARGE ASSEMBLY
10		2 IN CHECK VALVE
11		2 IN BALL VALVE
12	2396.00	IE - 2 IN FIPT DISCHARGE 3:00 POSITION (HALLIDAY H1R)
13		REINFORCED CONCRETE SLAB
14		DUPLEX ALTERNATING CONTROL PANEL MOUNTED ON BUILDING
15		SUPPLY POWER CONDUIT
16		PUMP CONDUIT (X2)
17		LEVEL SWITCH CONDUIT

PLAN



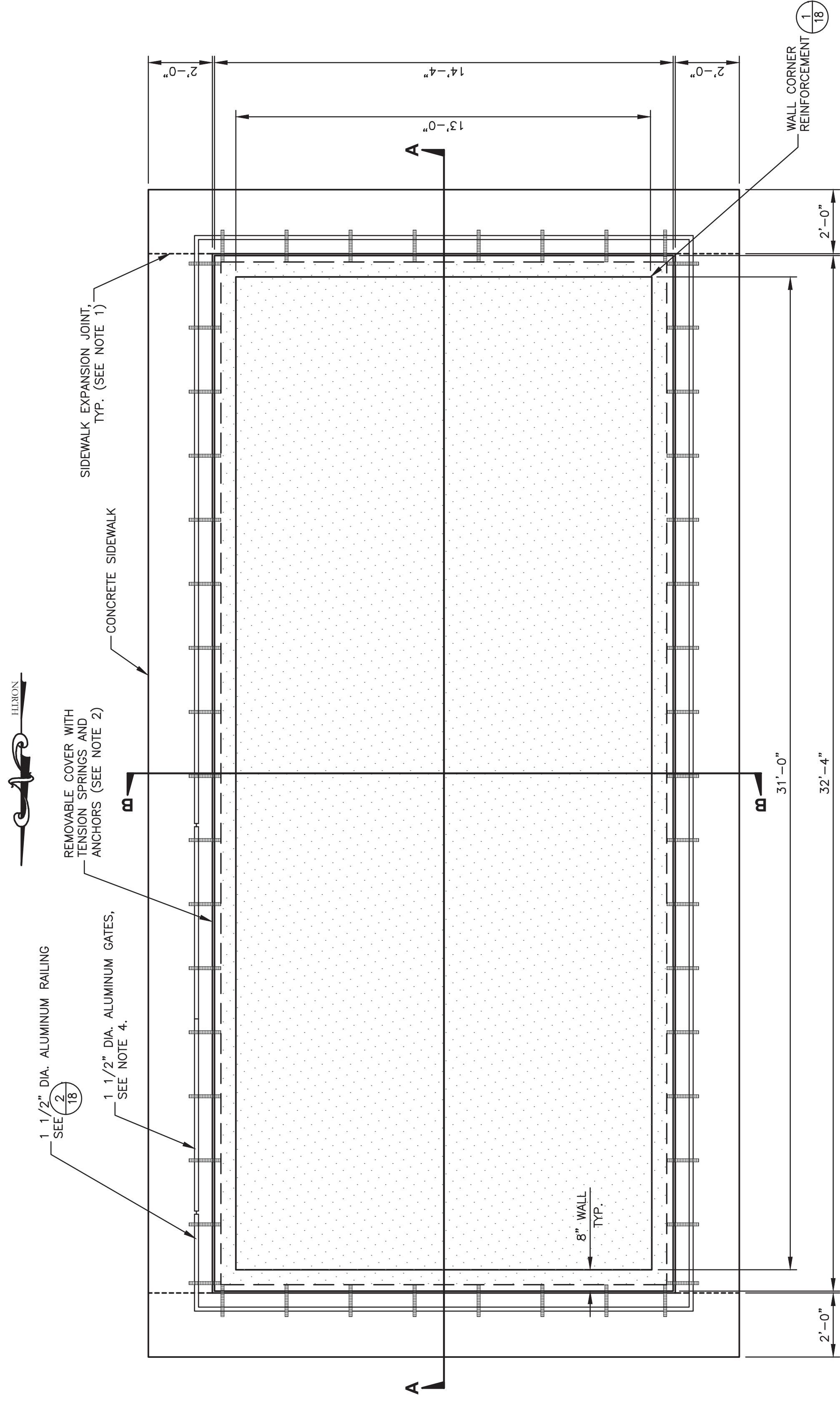
- NOTES:
1. PROVIDE 1" MIN GRAVEL LIP AROUND PERIMETER OF CONCRETE PAD ON UPHILL SIDE. SPREAD AND GRADE TO MATCH FINISH GRADE.

ISOMETRIC

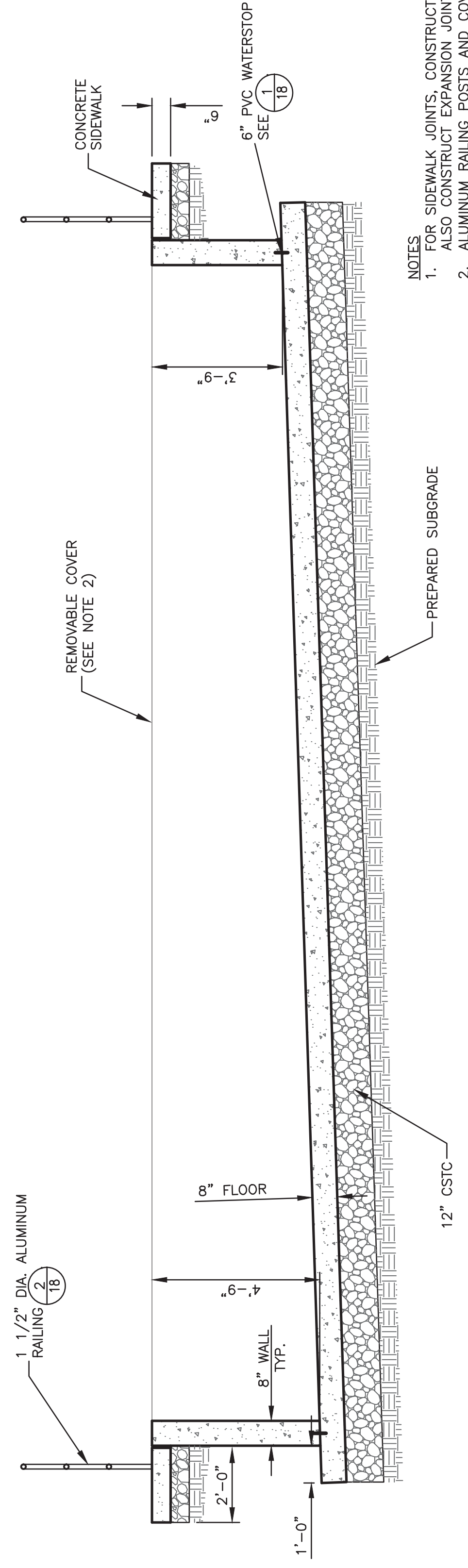


- NOTES:
1. COORDINATE PANEL MOUNTING WITH OWNER'S ELECTRICIAN, WHO WILL PROVIDE PAD AND ELECTRICAL RACK ASSEMBLY.
 2. OWNER'S ELECTRICIAN TO PROVIDE ALL ELECTRICAL AND MONITORING CONTROL CONDUITS AND WIRE.

CONTROL PANEL RACK



PLAN



SECTION A-A

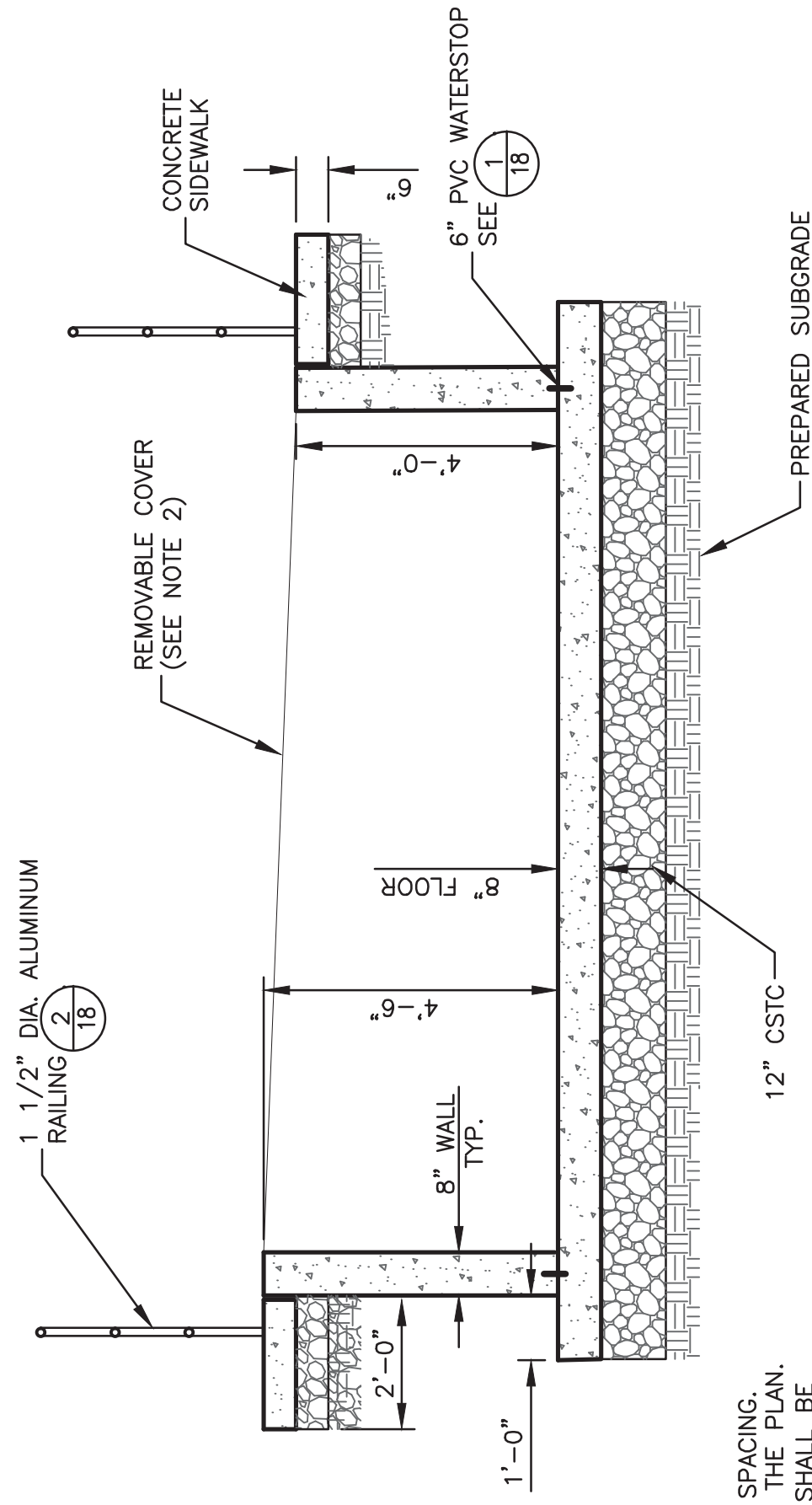
EVAPORATION BASIN DETAIL

SCALE: 1" = 5'

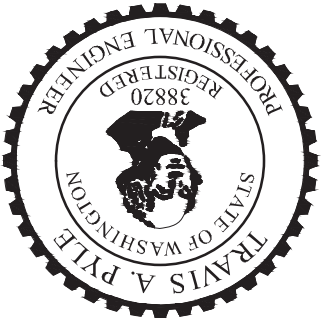
NOTES

1. FOR SIDEWALK JOINTS, CONSTRUCT CONTRACTION JOINTS 6" MAX. SPACING.
2. ALSO CONSTRUCT EXPANSION JOINTS AT CORNERS AS SHOWN ON THE PLAN.
3. PROVIDE 6" SWING GATES (X2) OF SAME DESIGN AND MATERIAL AS RAILING COVER MANUFACTURER.
4. PROVIDE 6" SWING GATES (X2) OF SAME DESIGN AND MATERIAL AS RAILING GATE. HARDWARE SHALL INCLUDE LOCKABLE LATCH AND HINGES THAT ALLOW GATE TO REMAIN IN OPEN POSITION WITHOUT PROTRUDING INTO ADJACENT ROAD. SUPPORT POSTS SHALL BE OF ADEQUATE SIZE TO SUPPORT GATES, AS RECOMMENDED BY MANUFACTURER.

SECTION B-B



PROJECT: 4-16108	NO.	REVISION DESCRIPTION	BY	DATE
DESIGNED: ML / TAP	☐			
DRAWN: ML / BAA	☐			
CHECKED: REC	☐			
APPROVED: TAP	☐			
DATE: MARCH 2017	☐			



Great West
Engineering®
3363 N. LAKEHARBOR LANE
BOISE, ID 83703
(208) 576-6646

NO.	REVISION DESCRIPTION	BY	DATE

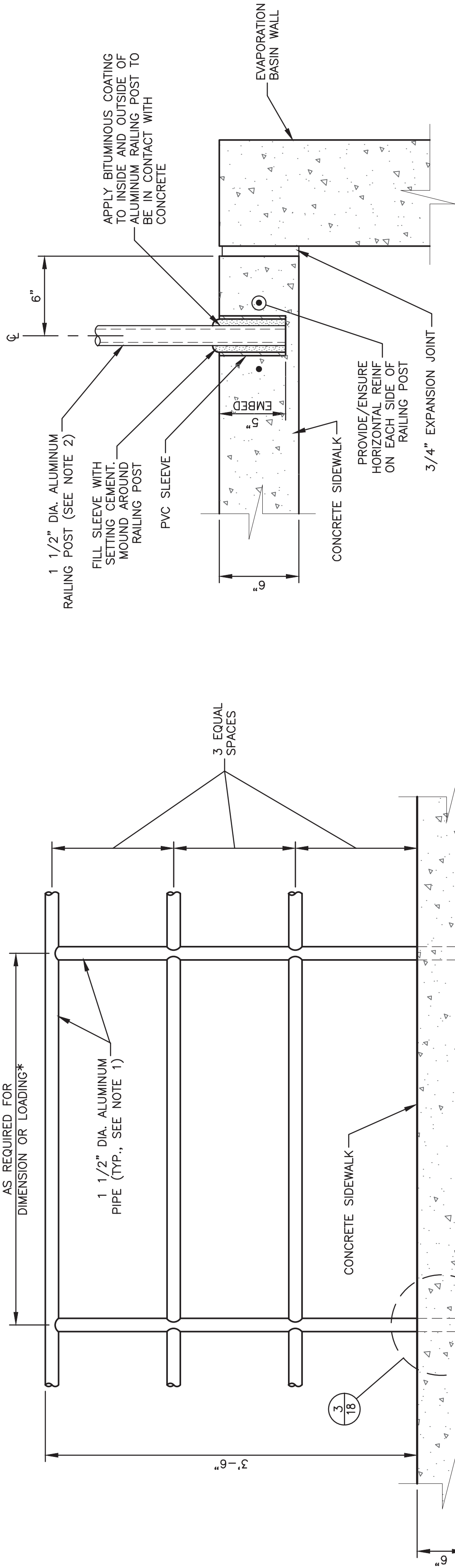
PROJECT: 4-16108	DESIGNED: ML / TAP	DRAWN: ML / BAA	CHECKED: REC	APPROVED: TAP	DATE: MARCH 2017
------------------	--------------------	-----------------	--------------	---------------	------------------



CAROTHERS ROAD SOLID WASTE FACILITY

CONTACT WATER AND FIRE SUPPRESSION WATER HOLDING TANKS PROJECT

EVAPORATION BASIN STRUCTURAL DETAILS



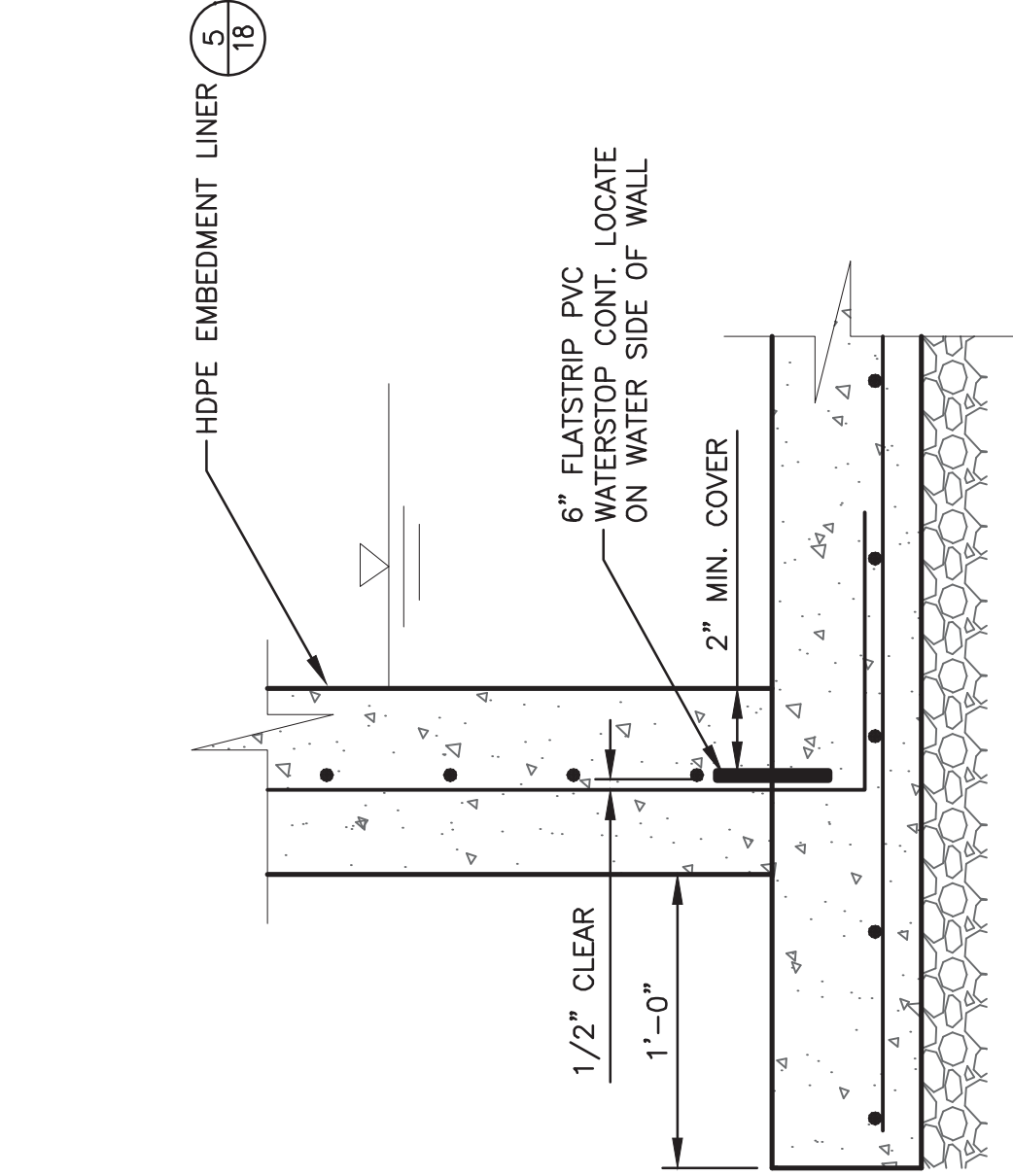
- NOTES:
1. AT CONTRACTOR'S OPTION, RAILS MAY BE MECHANICALLY ATTACHED. ATTACHMENTS SHALL BE DESIGNED BY QUALIFIED PROFESSIONAL ENGINEER.
 2. REFER TO SPEC SECTION 05521, PIPE AND TUBE RAILING.

18

3

RAILING ANCHORAGE DETAIL

NOT TO SCALE



- NOTES:
1. WATERSTOP TO BE GREENSTREAK NO. 679 OR APPROVED EQUAL.
 2. WATERSTOP TO BE CONTINUOUS W/ HEAT WELDED BUTT JOINTS.
 3. APPLY TWO (2) COATS OF BOND BREAKER TO JOINT. DO NOT APPLY BOND BREAKER TO WATER STOP.

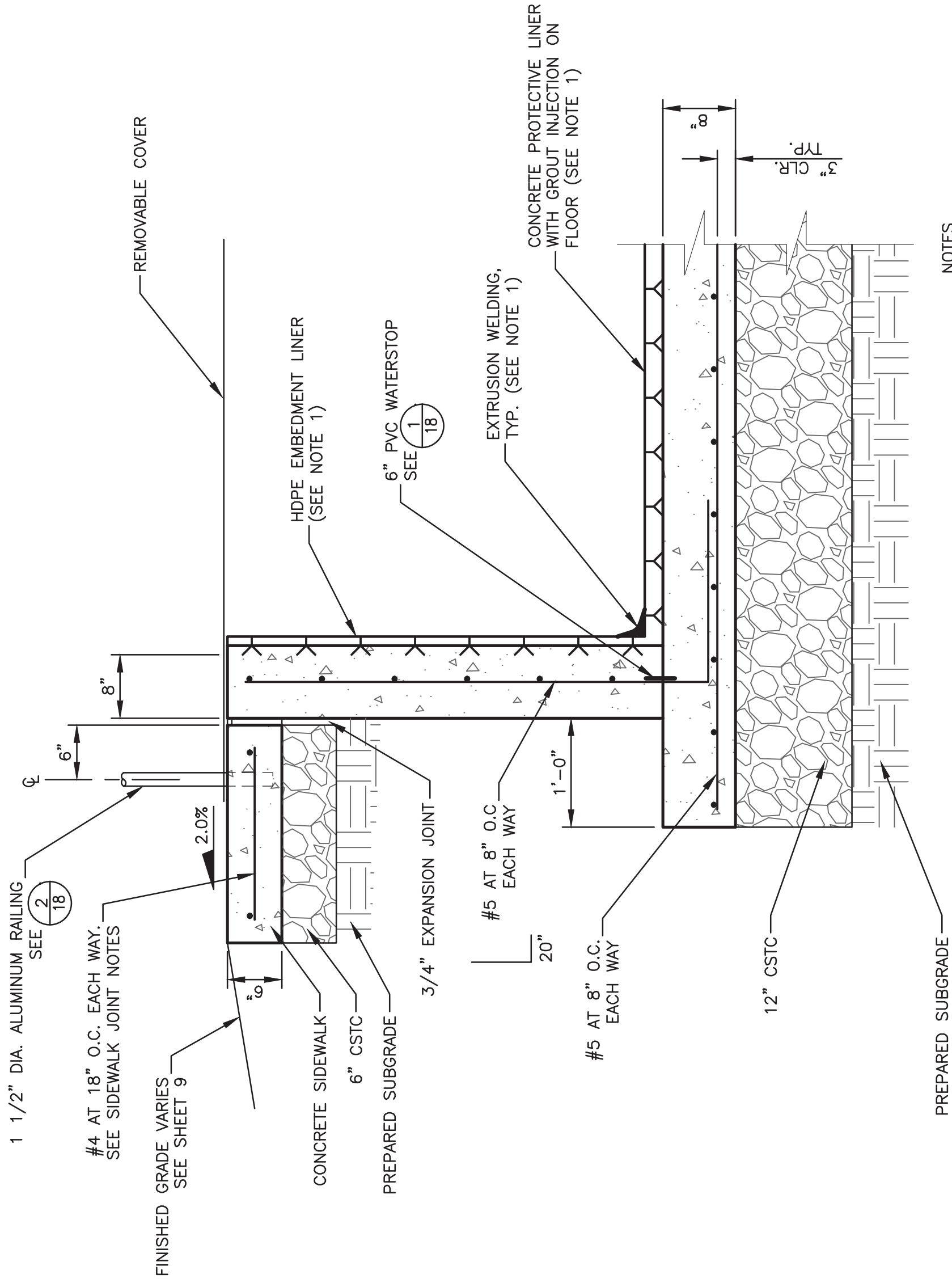
18

1

SLAB TO WALL WATERSTOP

NOT TO SCALE

SINGLE MAT



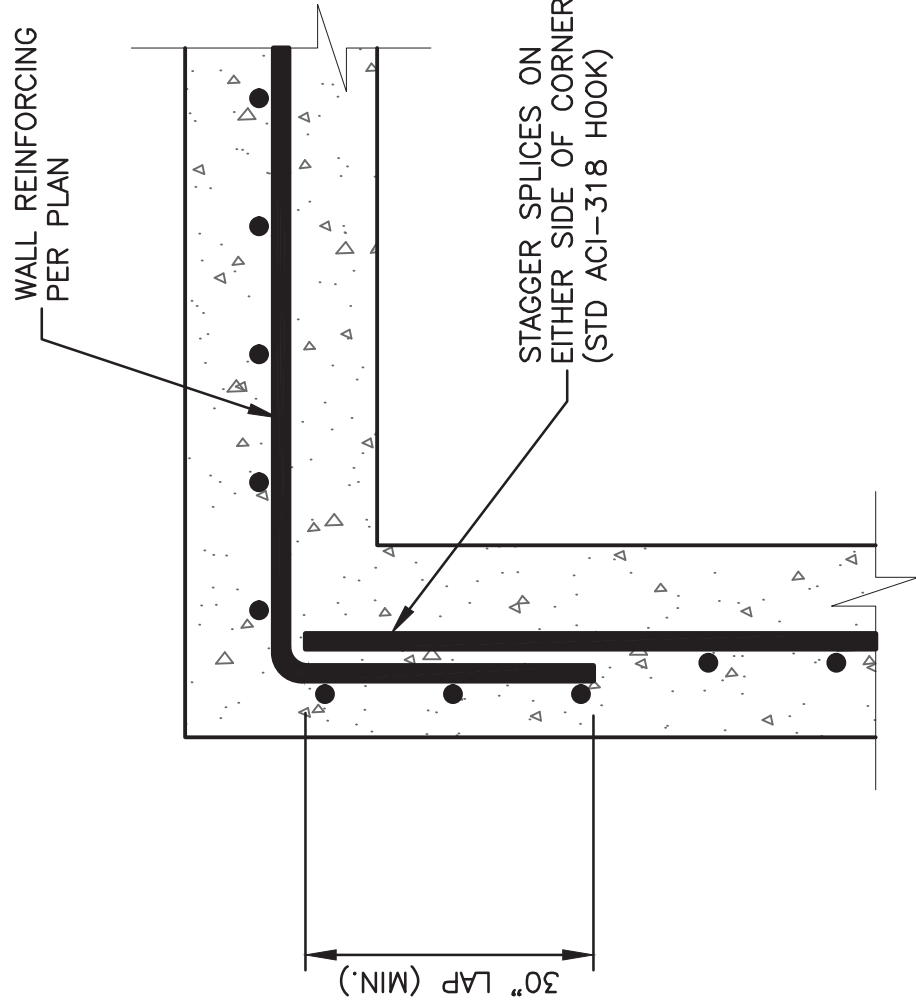
- NOTES
1. REFER TO SPEC SECTION 02644, HDPE EMBEDMENT LINER

18

5

EVAPORATION BASIN DETAIL SECTION

NOT TO SCALE



18

4

WALL CORNER REINFORCEMENT

NOT TO SCALE