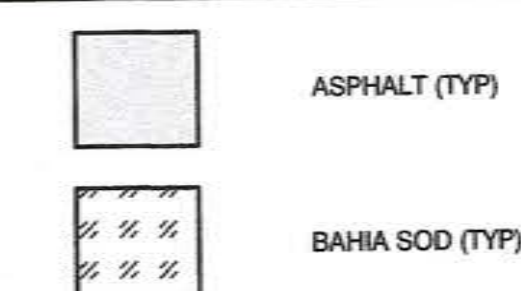
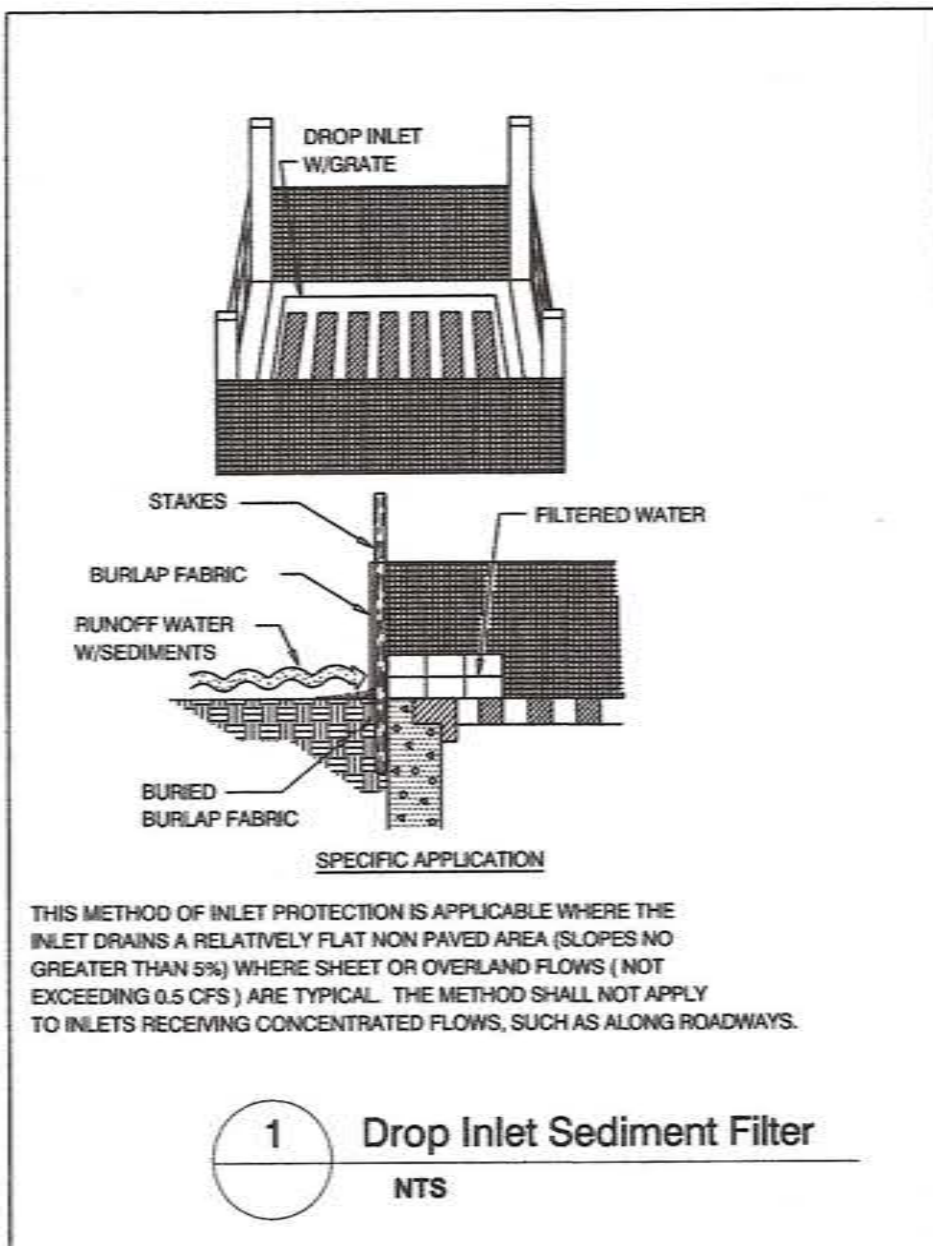


- ### **GROUND COVER PLAN**

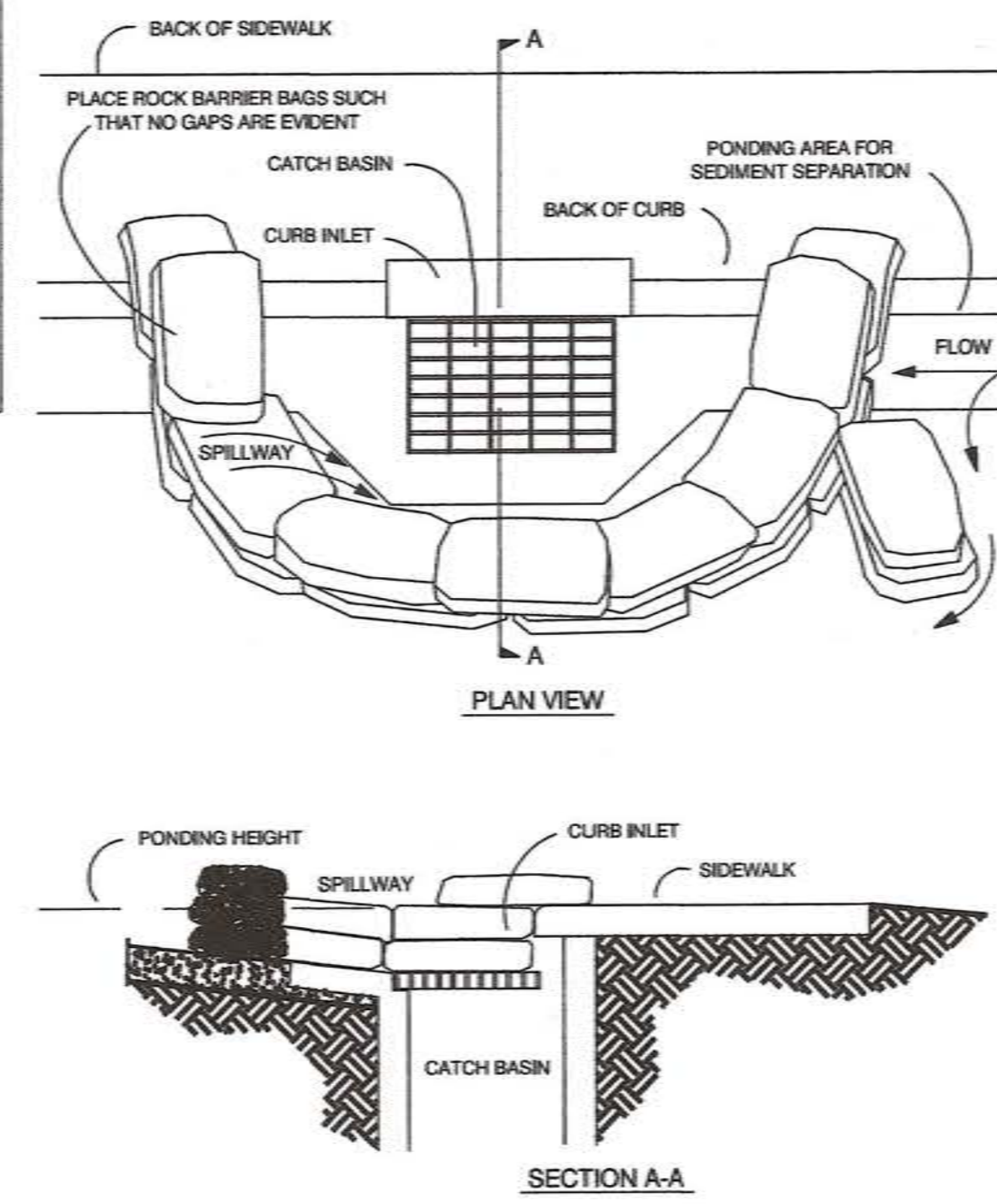
- EXISTING FOOTER NOTES:**

1. CONTRACTOR SHALL HAND DIG AND COMPLETELY EXPOSE THE EXISTING FOOTER TO THE EXTENTS OF THE PROPOSED ROAD BASE.
2. CONTRACTOR SHALL CONFIRM THE ELEVATION OF THE TOP OF THE FOOTER.

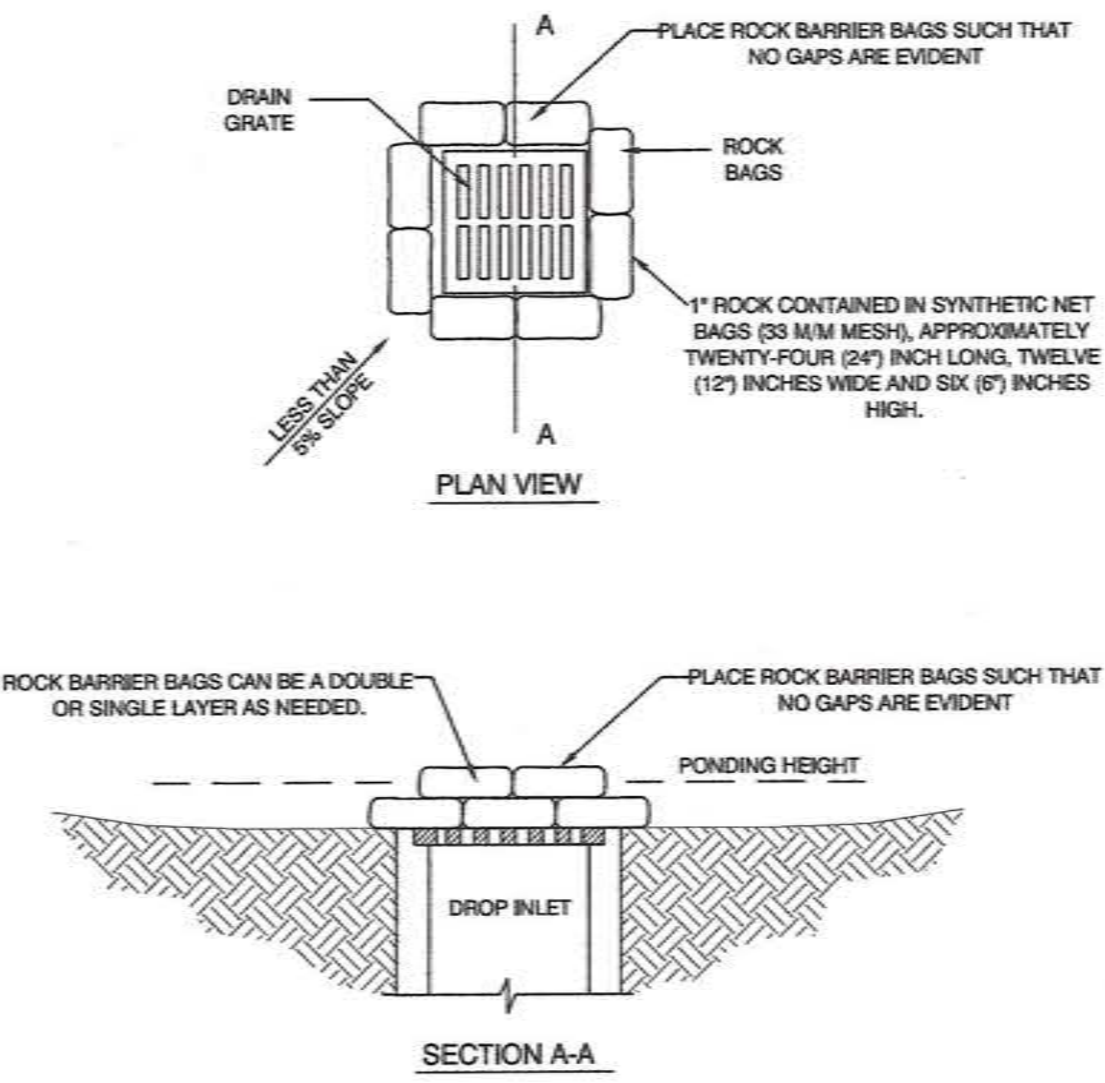




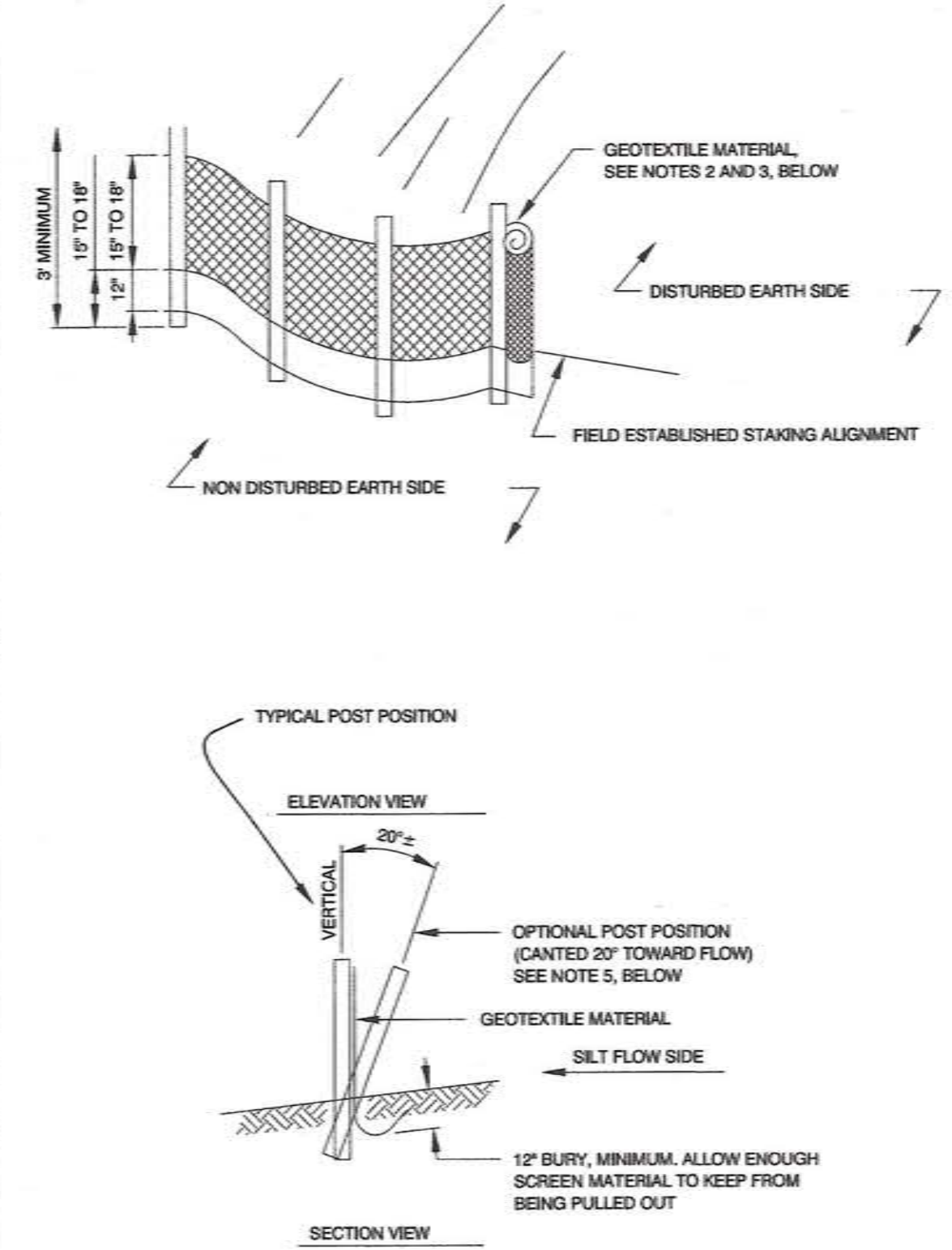
1 Drop Inlet Sediment Filter
NTS



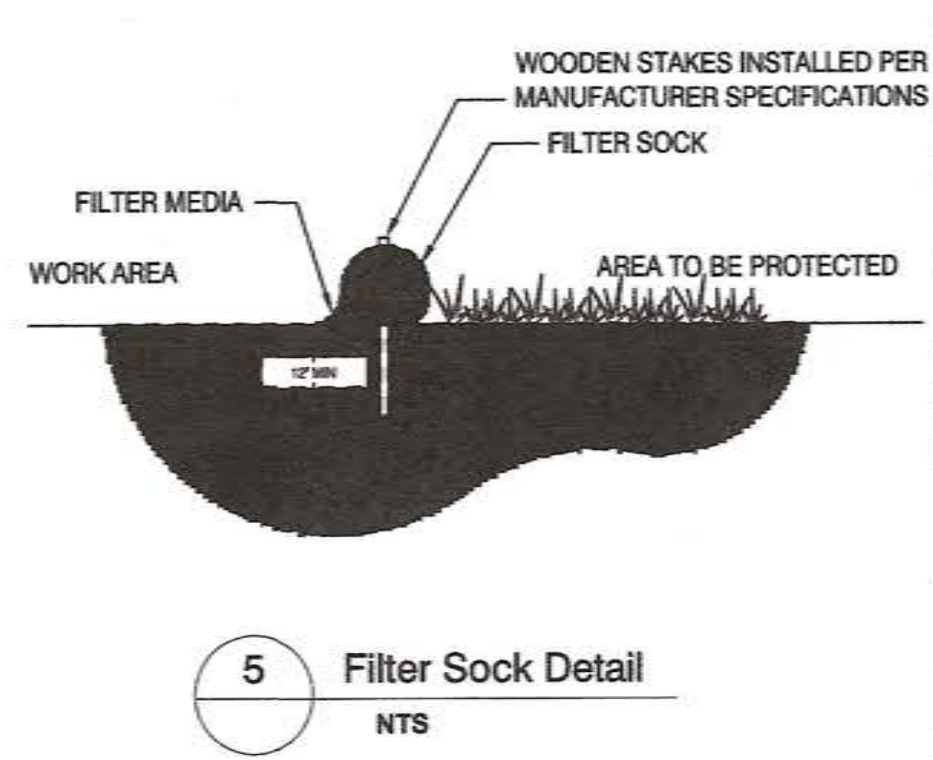
2 Silt Rock Bag Curb Inlet Filter
NTS



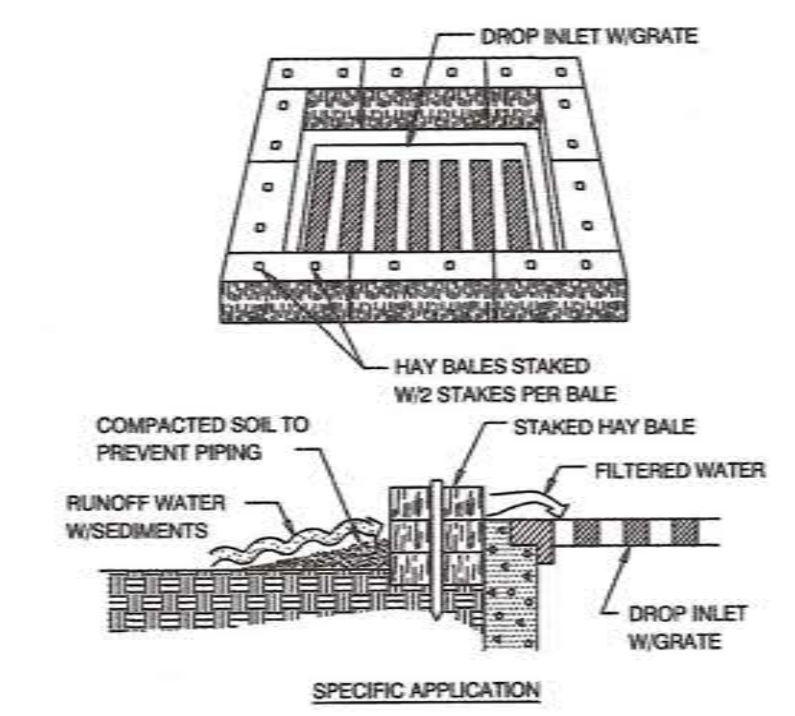
3 Silt Rock Bag Drop Inlet Filter
NTS



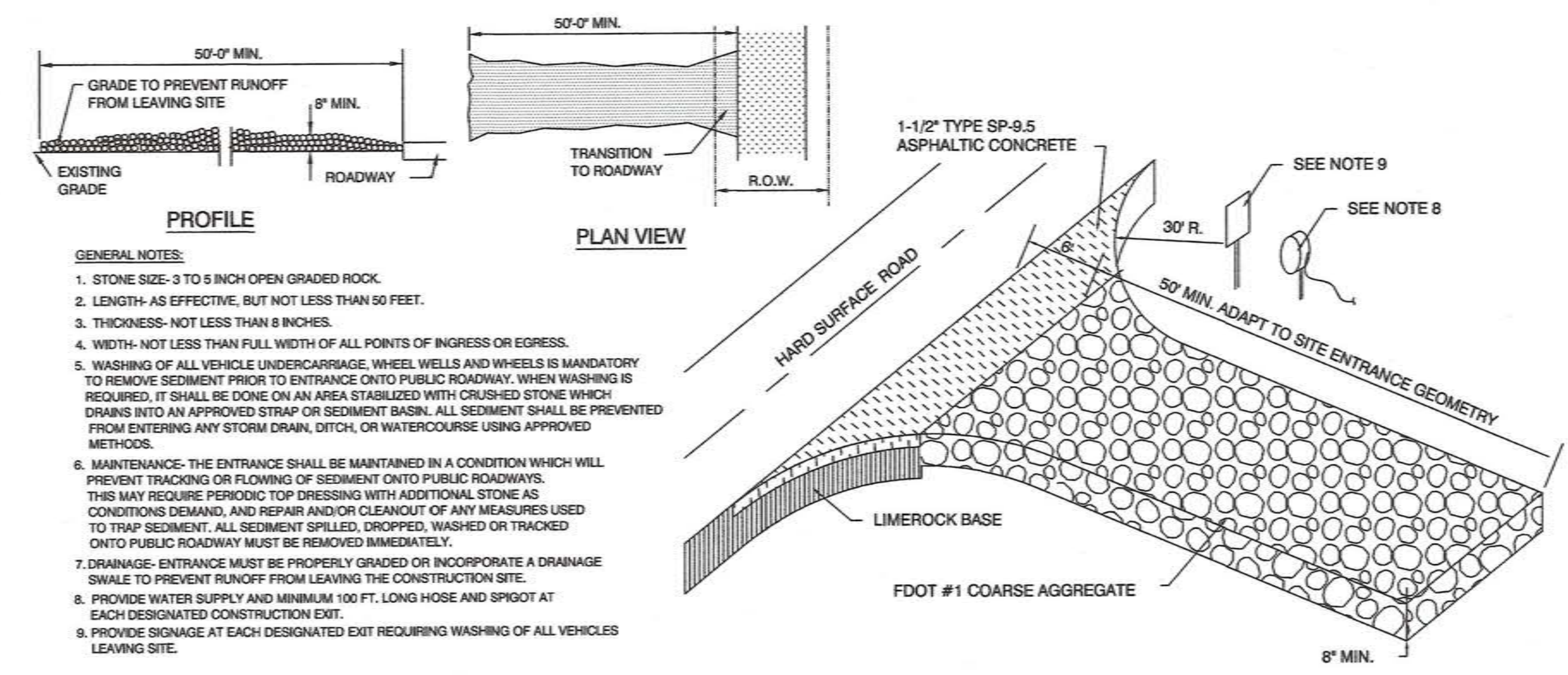
4 Staked Silt Barrier Detail
NTS



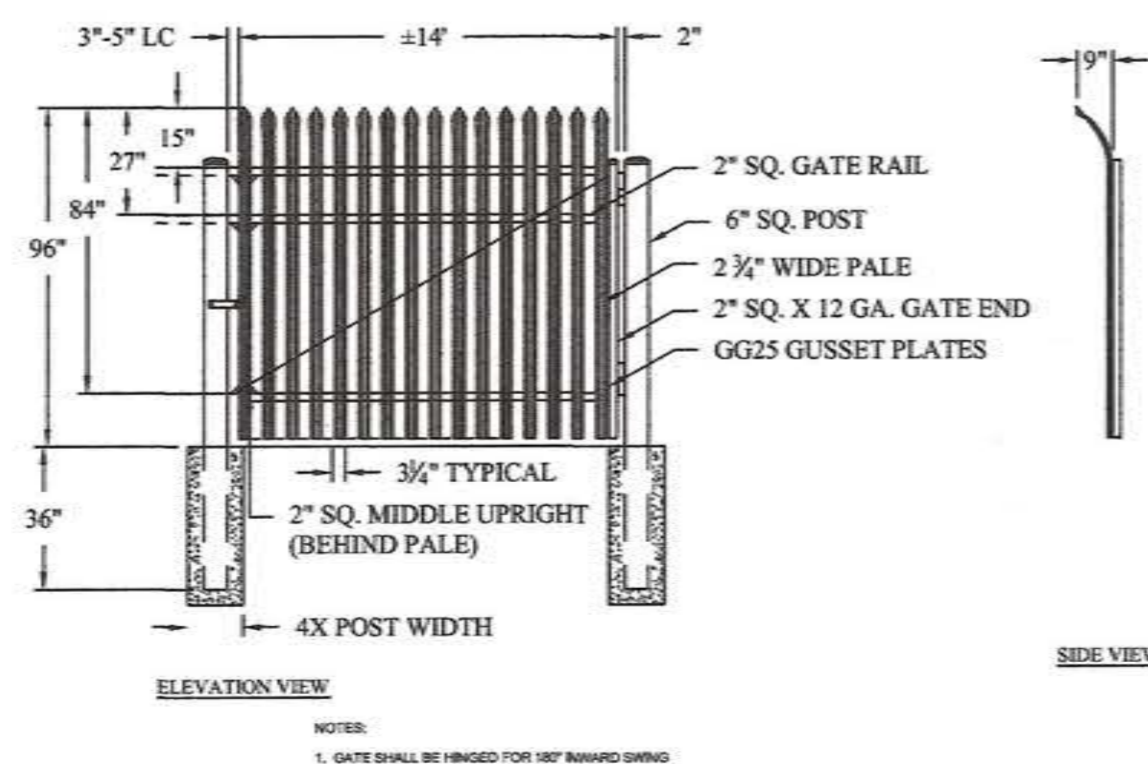
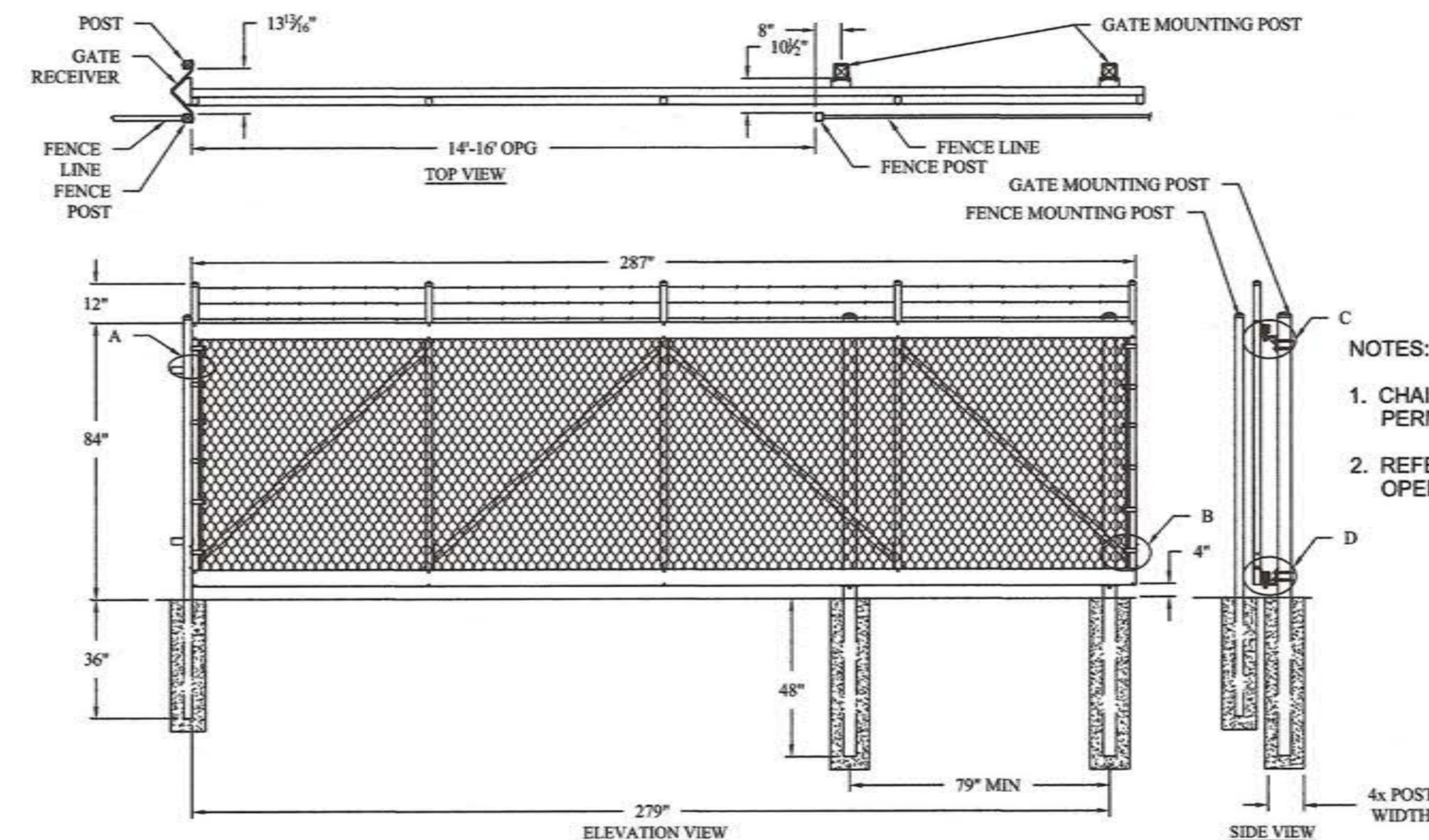
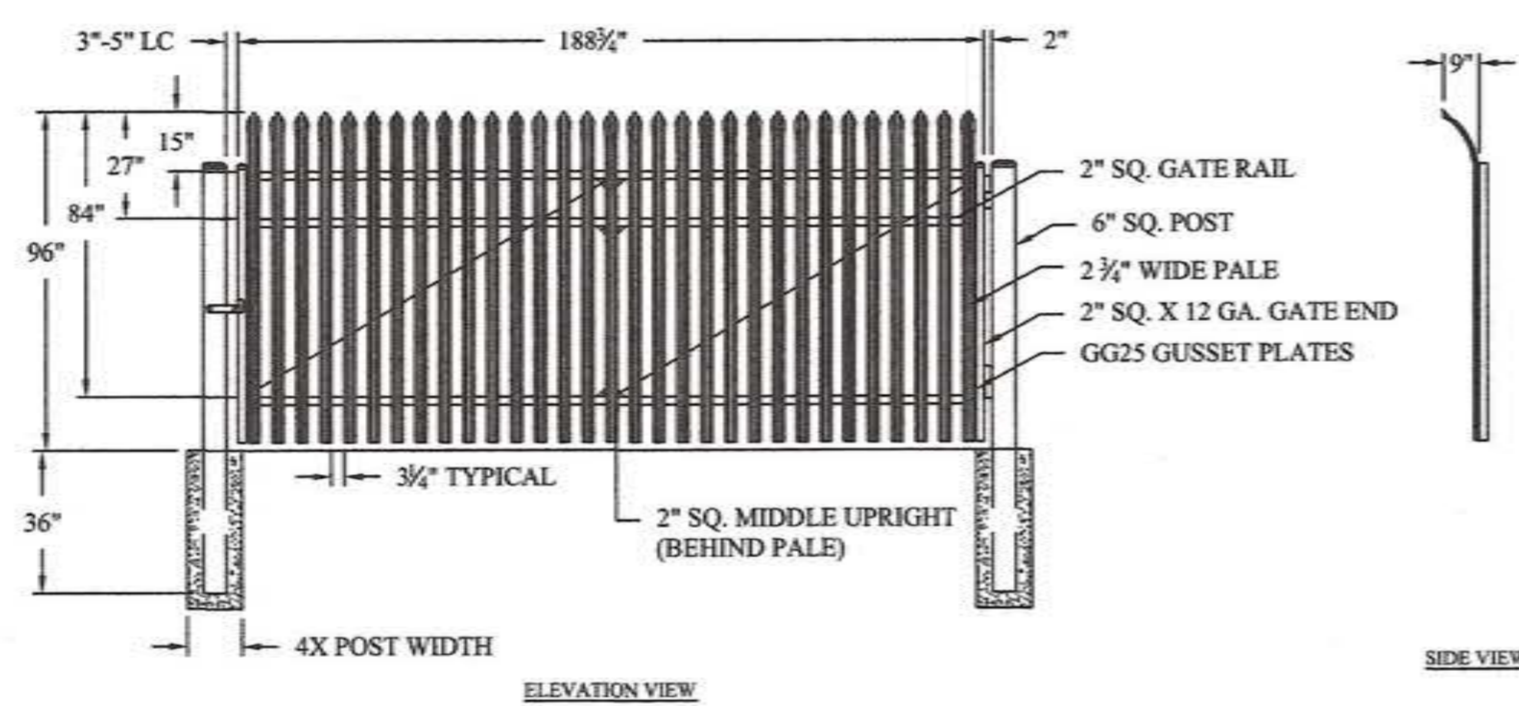
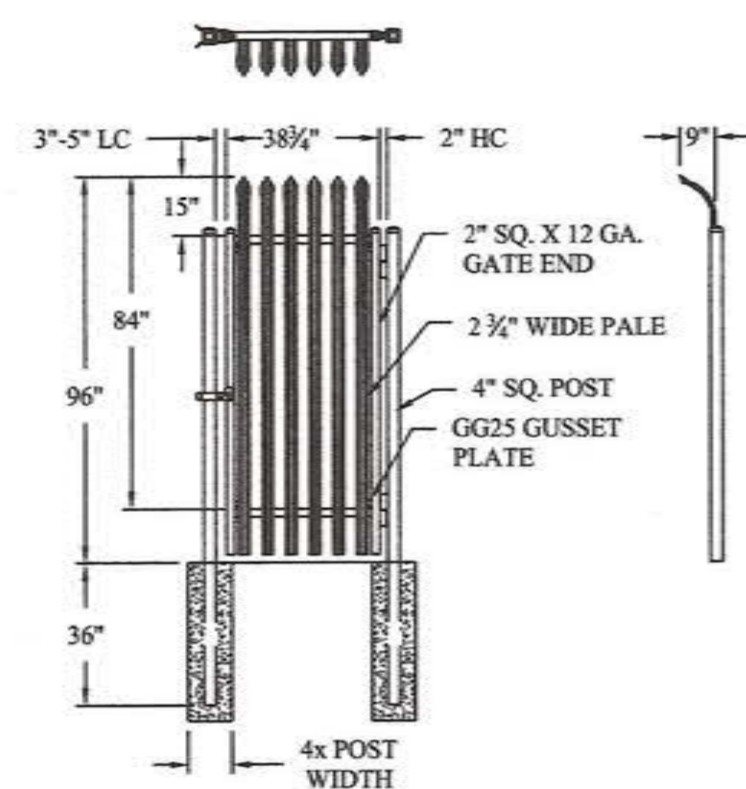
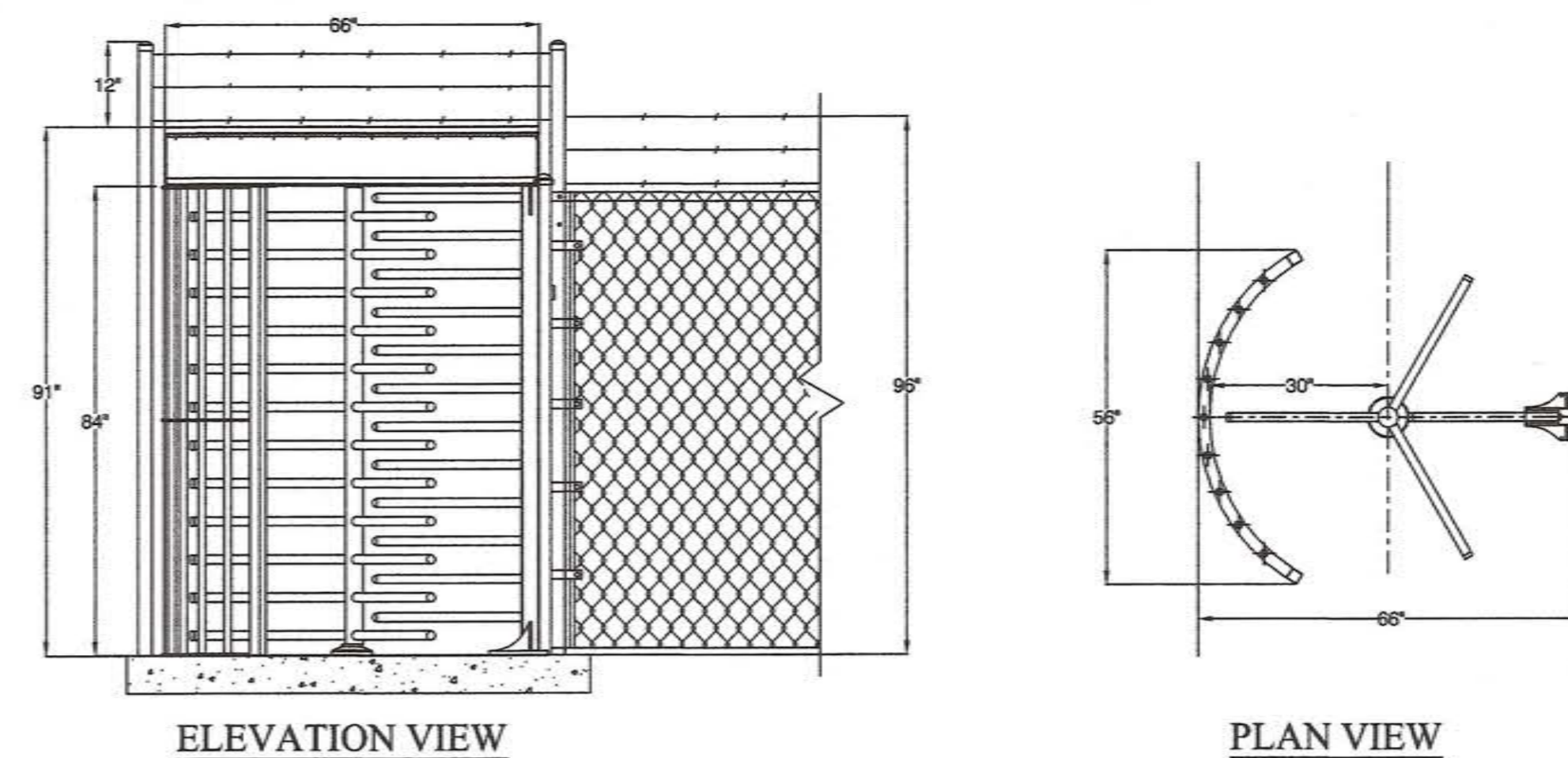
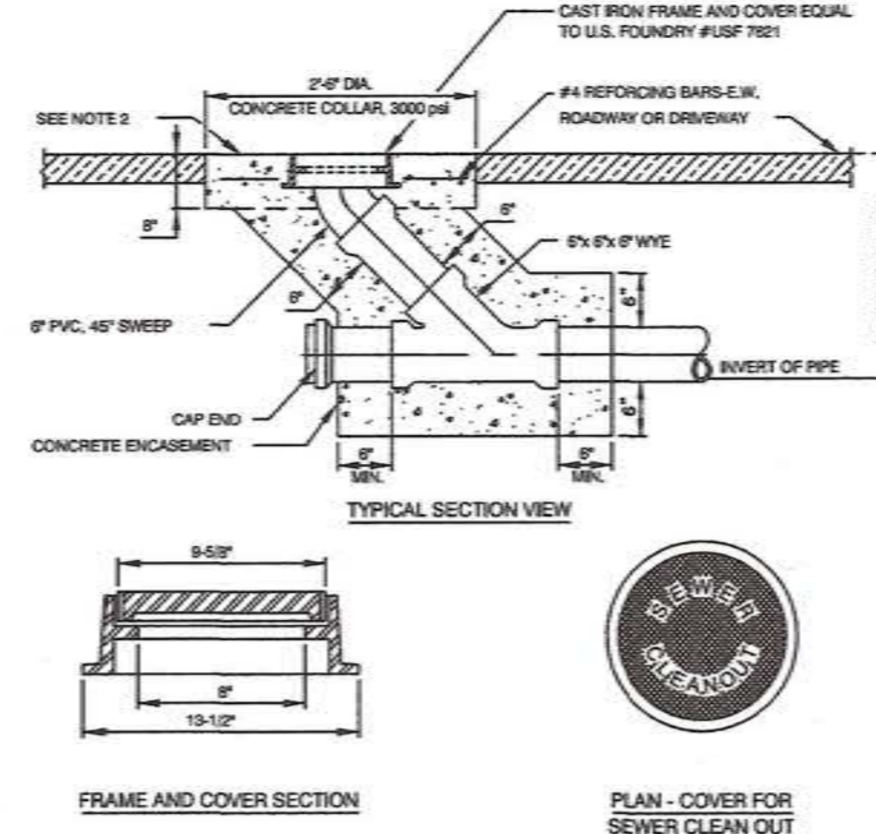
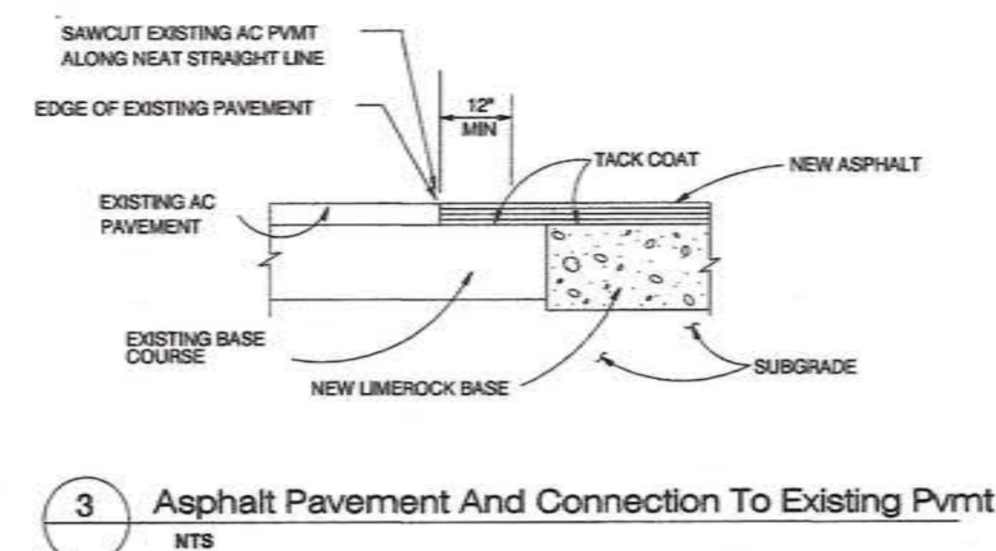
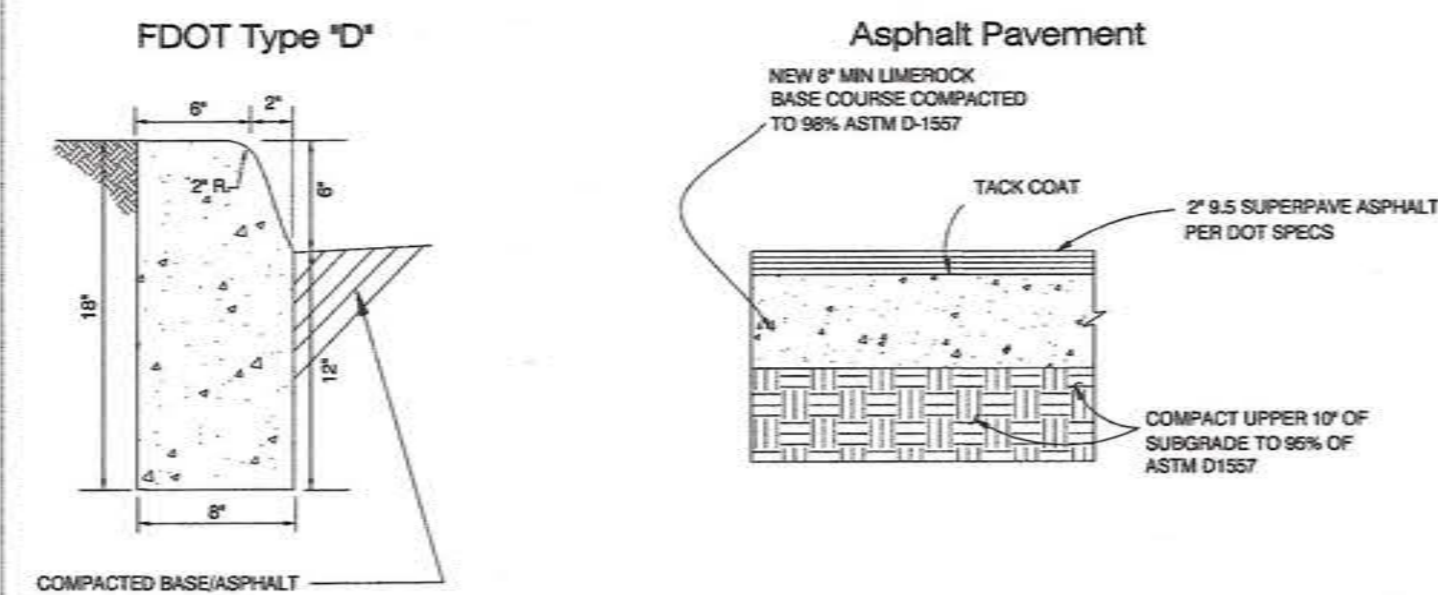
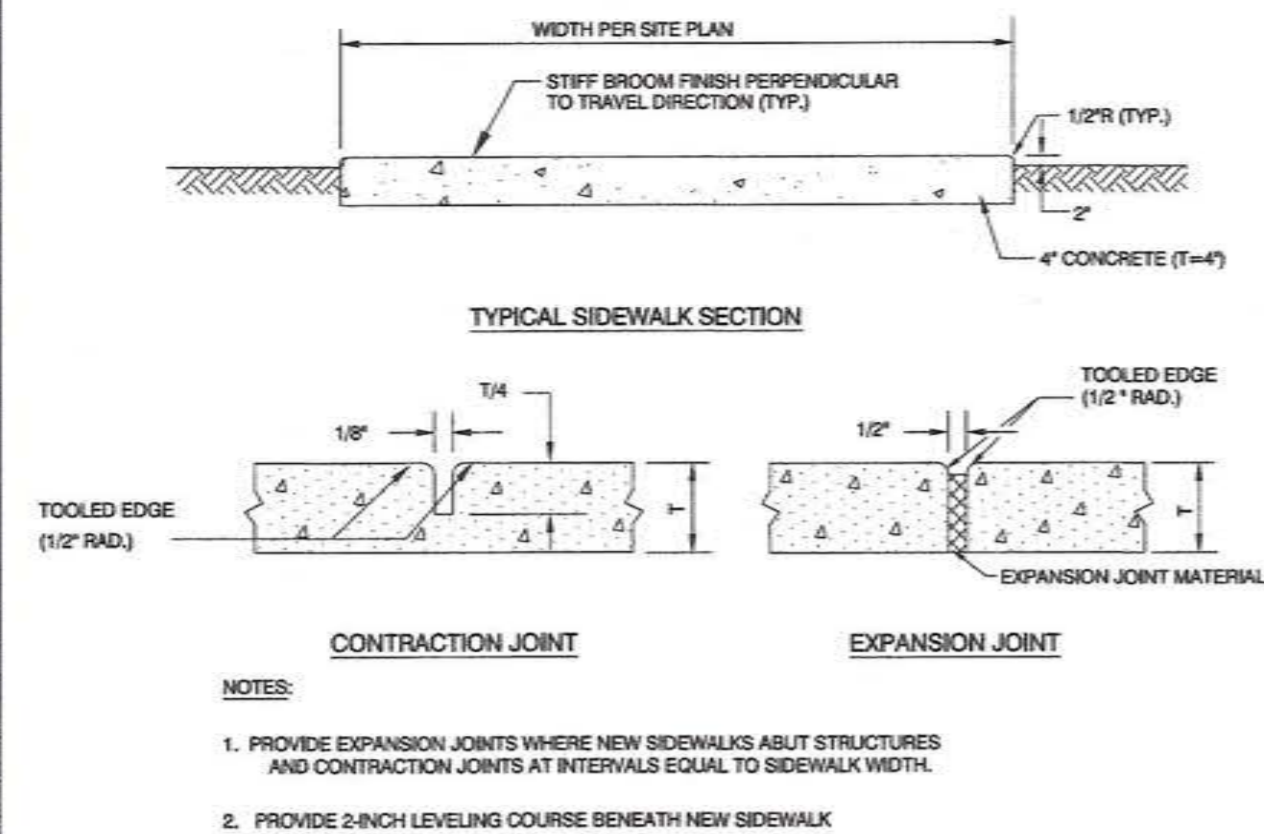
5 Filter Sock Detail
NTS



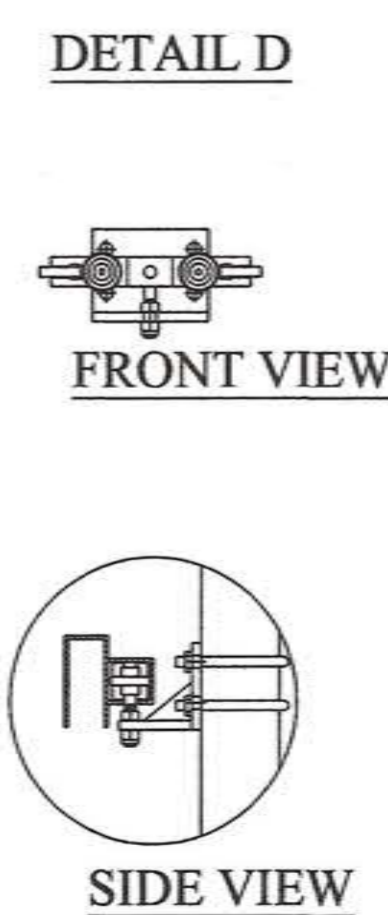
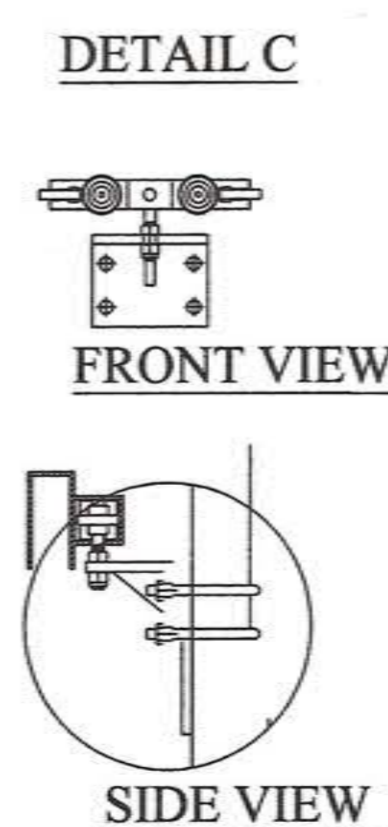
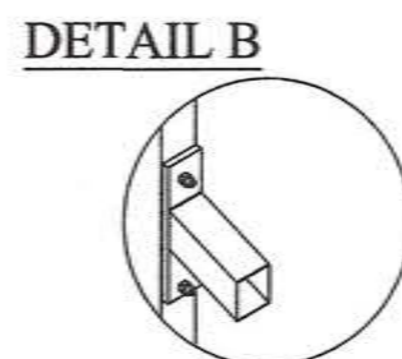
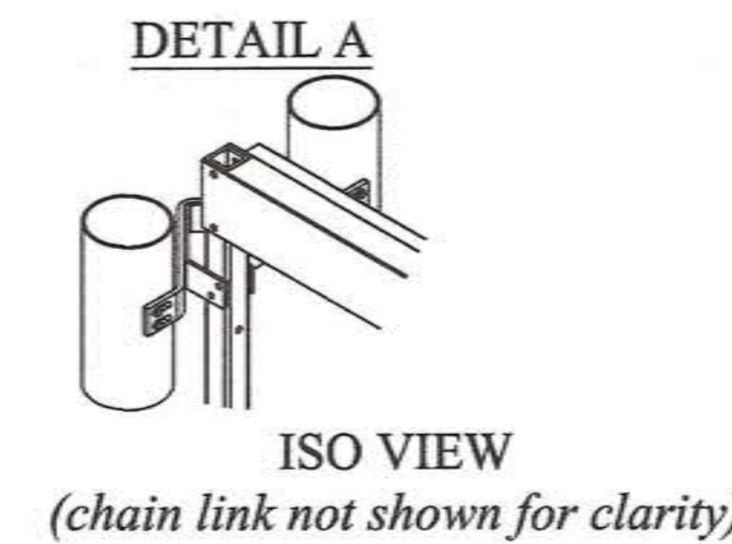
6 Hay Bale Drop Inlet Filter
NTS

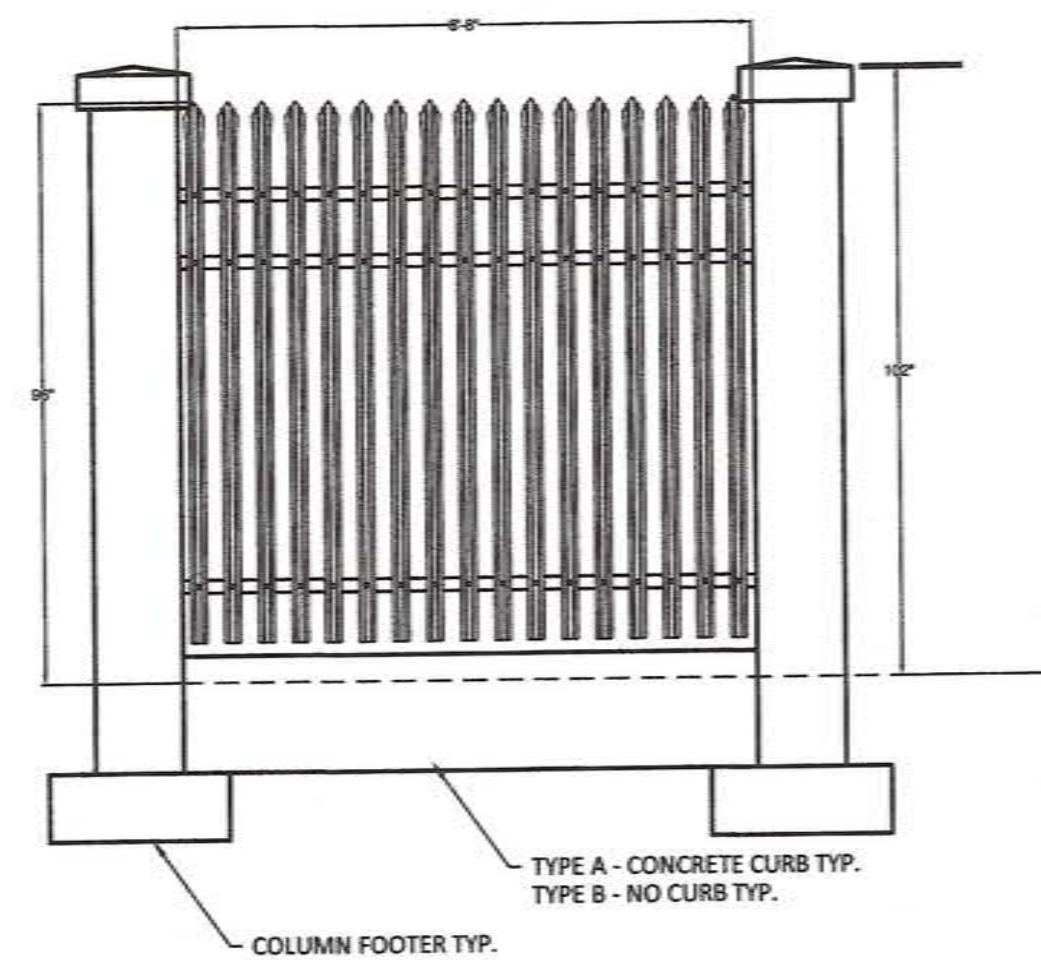


7 Gravel Construction Entrance
NTS



ALL MOUNTING HARDWARE FOR GATES, FENCES, ETC. SHALL BE STAINLESS STEEL

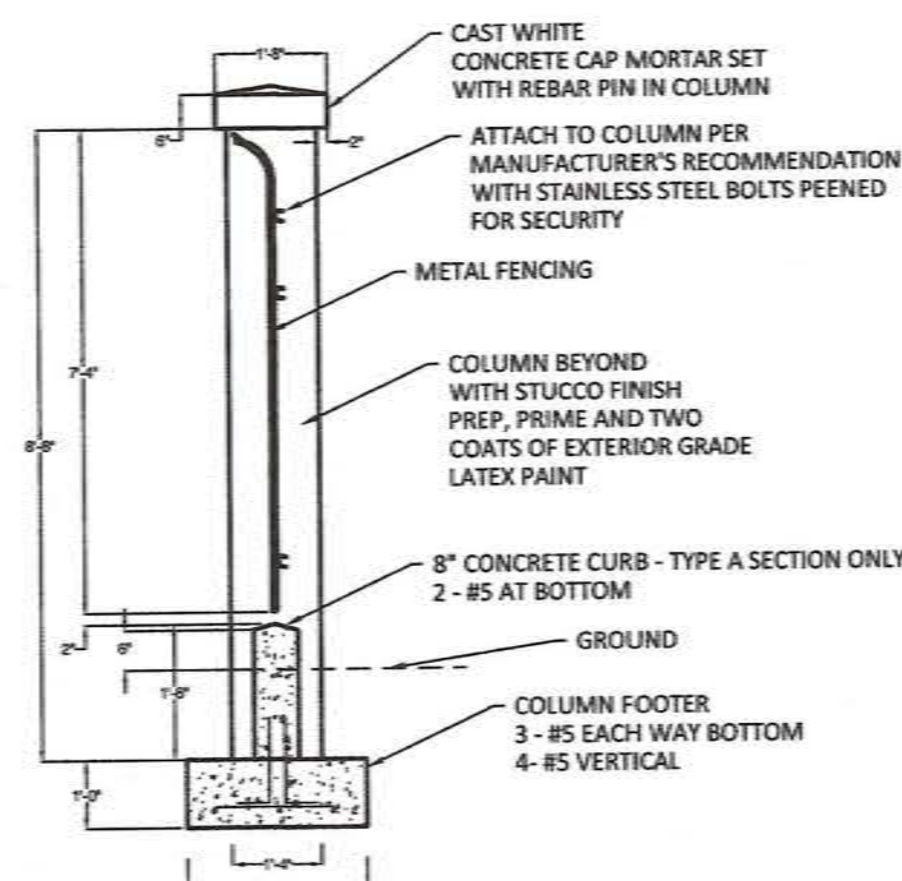




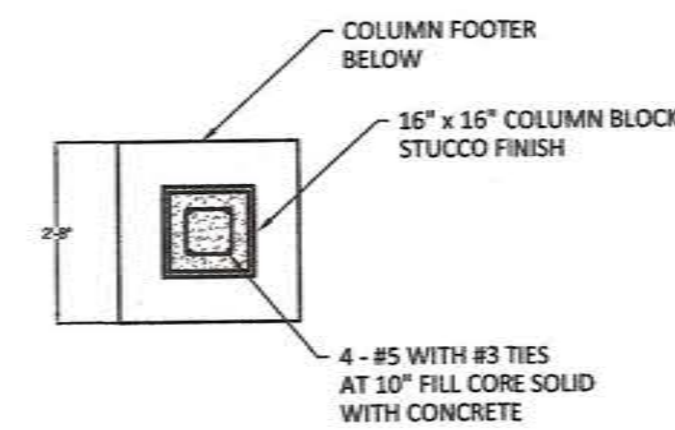
NOTES:

1. COLUMN SPACING SHALL BE CAREFULLY CONTROLLED SO THAT FACTORY STANDARD FENCING SECTIONS CAN BE USED WITHOUT FIELD CUTS AND COATING REPAIRS.
2. CARE SHALL BE TAKEN TO MAKE SURE GAPS ARE MINIMIZED BETWEEN PALES AT GATES AND OTHER TRANSITIONS.

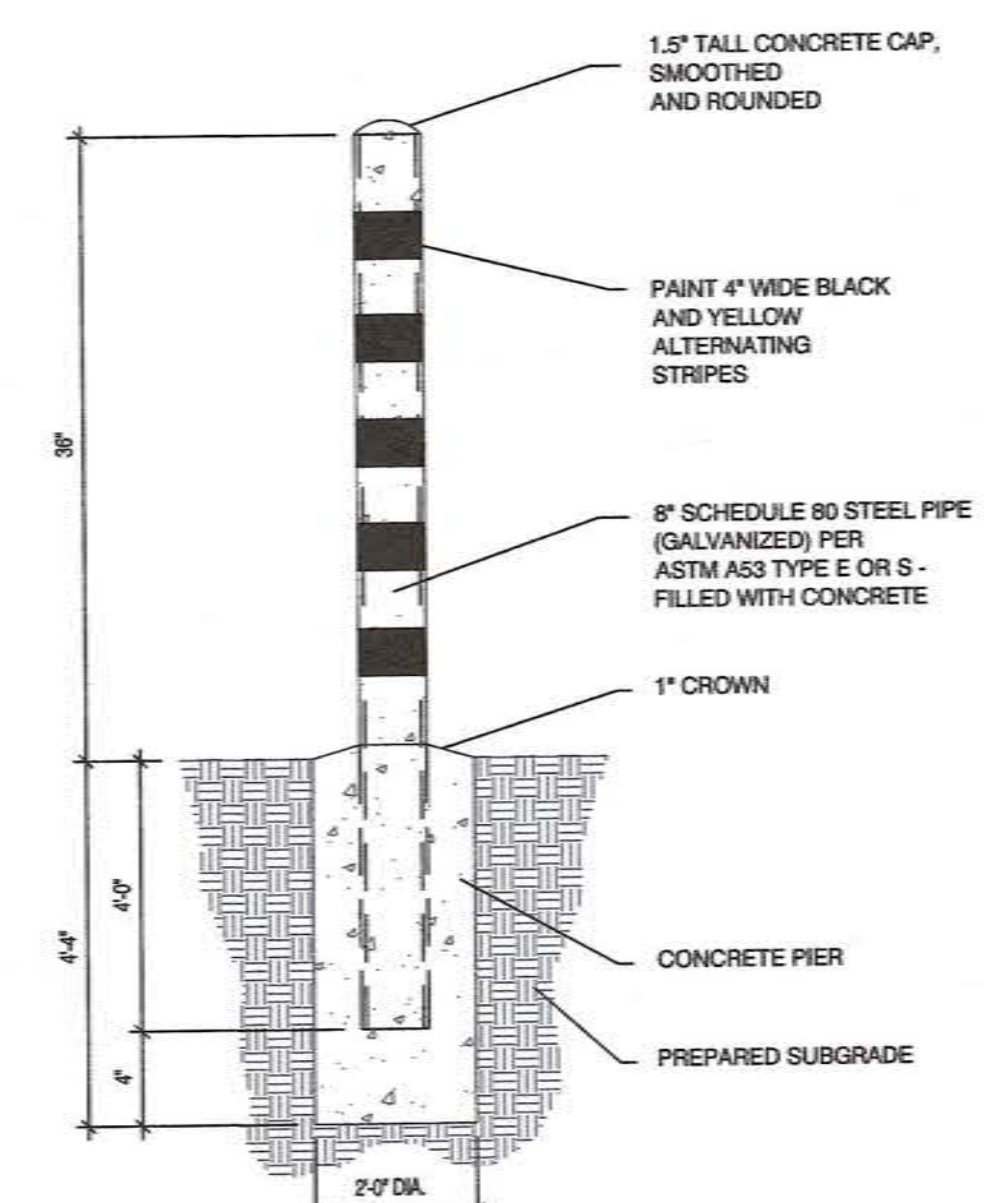
1 Impasse II Gauntlet - Typical Elevation
NTS



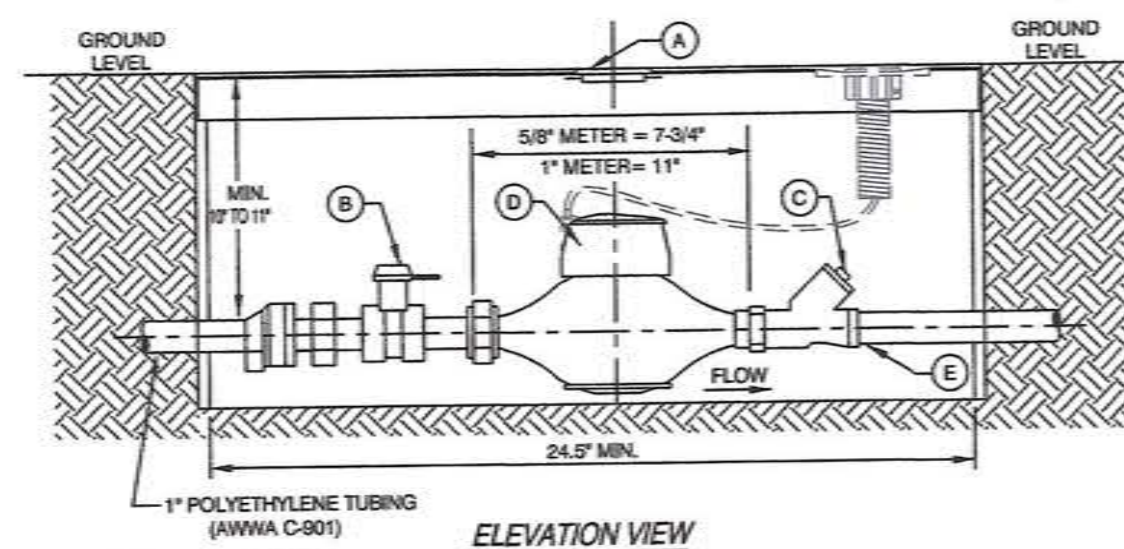
2 Impasse II Gauntlet - Typical Section
NTS



3 Impasse II Gauntlet - Column Typical Detail
NTS



4 Concrete Bollard Detail
NTS



A= METER BOX AND LID
BOX-OLDCASTLE PRECAST #02001022-FL121 FIBRELYTE GRAY COMPOSITE BOX (W/MOUSE HOLES)
LID-OLDCASTLE PRECAST #02001381-FL12 LID1118 FIBRELYTE GRAY COMPOSITE NEPTUNE OFFSET-PROBE PROVISION FKAA WATER

NOTE: METER BOXES MUST HAVE LIDS IN PLACE PRIOR TO POURING THE CONCRETE.

B= FORD LOCKABLE CURB STOP OR APPROVED EQUAL

METER DIAMETER	CURB STOP
3/4" x 3/4"	No. B43-342 W
1"	No. B43-344 W

* "W" ON CATALOG NUMBER IS FOR PADLOCK WINGS & SHOULD OPEN TO THE LEFT.

C= FKAA APPROVED DUAL CHECK VALVE: MUELLER No. H-14242 OR FORD HHS 31-322, HHS 31-344, OR APPROVED EQUAL. IF DOWNSTREAM BACKFLOW PREVENTOR (RPZ OR DCVA) IS REQUIRED, CURB STOP SHOULD BE INSTALLED IN LIEU OF DUAL CHECK.

D= SEALED REGISTER WATER METER

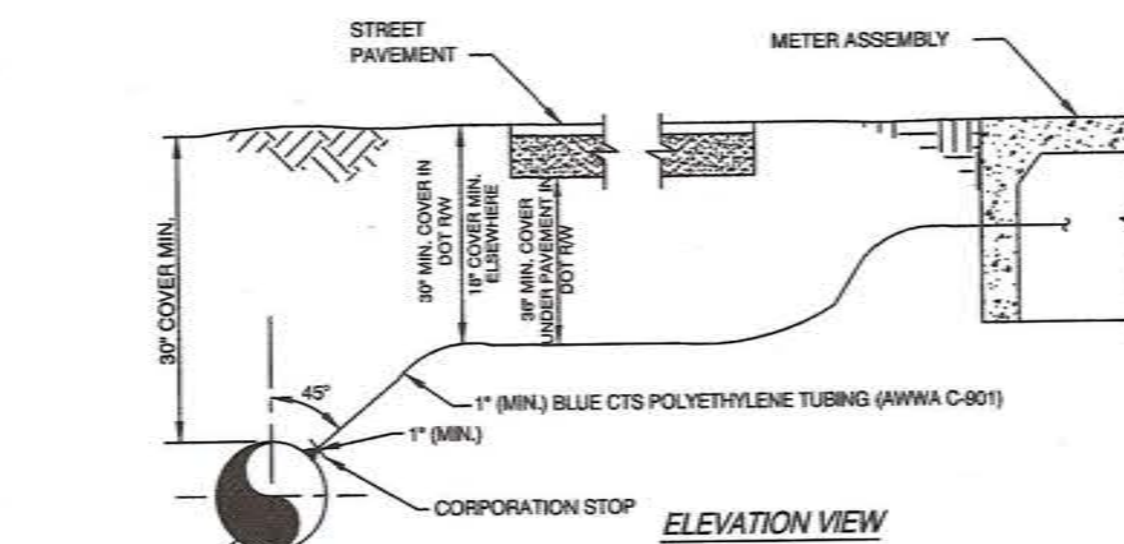
E= CUSTOMER TIE-IN POINT

NOTE:

1. MINIMUM DISTANCES BETWEEN METER INLETS/OUTLETS AND THE CLOSEST FITTINGS SHALL BE MAINTAINED PER METER MANUFACTURER'S REQUIREMENTS.

5 3/4" & 1" Meter w/ Dual Check Valve
NTS

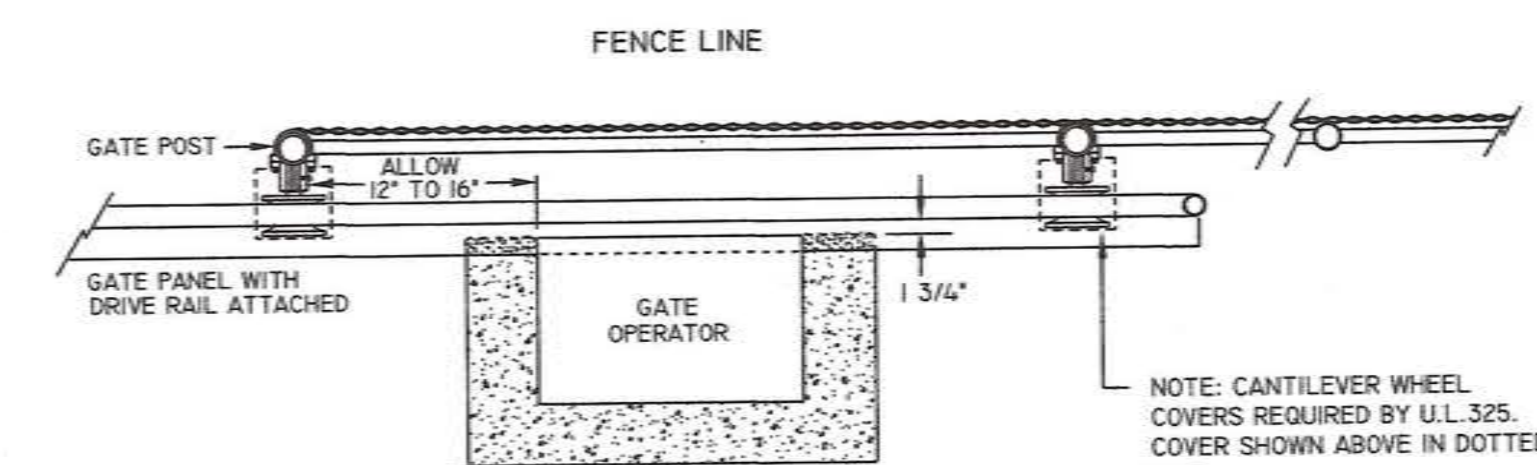
ALL MOUNTING HARDWARE FOR GATES, FENCES, ETC. SHALL BE STAINLESS STEEL



NOTE:

1. SADDLES SHALL BE ROCKWELL INTERNATIONAL, TYPE 323, STYLE DOUBLE STRAP BRONZE SADDLES, FOR PVC AND DUCTILE IRON PIPE, OR APPROVED EQUAL. TAPPING SADDLES SHALL BE USED FOR ALL TAPS ON 2" PVC PIPE. 4" PVC PIPE OR GREATER SHALL HAVE A TAPPING SLEEVE AND VALVE.
2. CORPORATION STOPS SHALL BE FORD F-1000, FB-1000, OR APPROVED EQUAL. THE LARGEST CORPORATION STOP WHICH CAN BE TAPPED DIRECTLY INTO THE PIPE IS 1-INCH.

6 Service Connection Detail
NTS



NOTE:

HYSECURITY GATE OPERATOR INSTALLED ON A CONCRETE PAD. MINIMUM CONCRETE SLAB DIMENSIONS RECOMMENDED ARE 30" WIDE x 20" FROM FRONT TO BACK.

CONTRACTOR SHALL COORDINATE EXACT SIZE OF SLAB WITH GATE OPERATOR MANUFACTURER.

SLAB SHALL BE 16" DEEP WITH #4 HOOPS @ 8" O.C. EACH WAY TOP AND BOTTOM.

7 Chain Link Fence Gate Operator Slab
NTS

ORIGINAL: AUGUST 2016

REVISIONS:

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MOLE PIER
ENTRY CONTROL POINT

CITY OF KEY WEST
ENGINEERING DEPARTMENT

3140 FLAGLER AVENUE
KEY WEST, FL. 33040

JOB NO. 161032
DRAWN BGO
DESIGNED AEP
CHECKED AEP
QC
SHEET

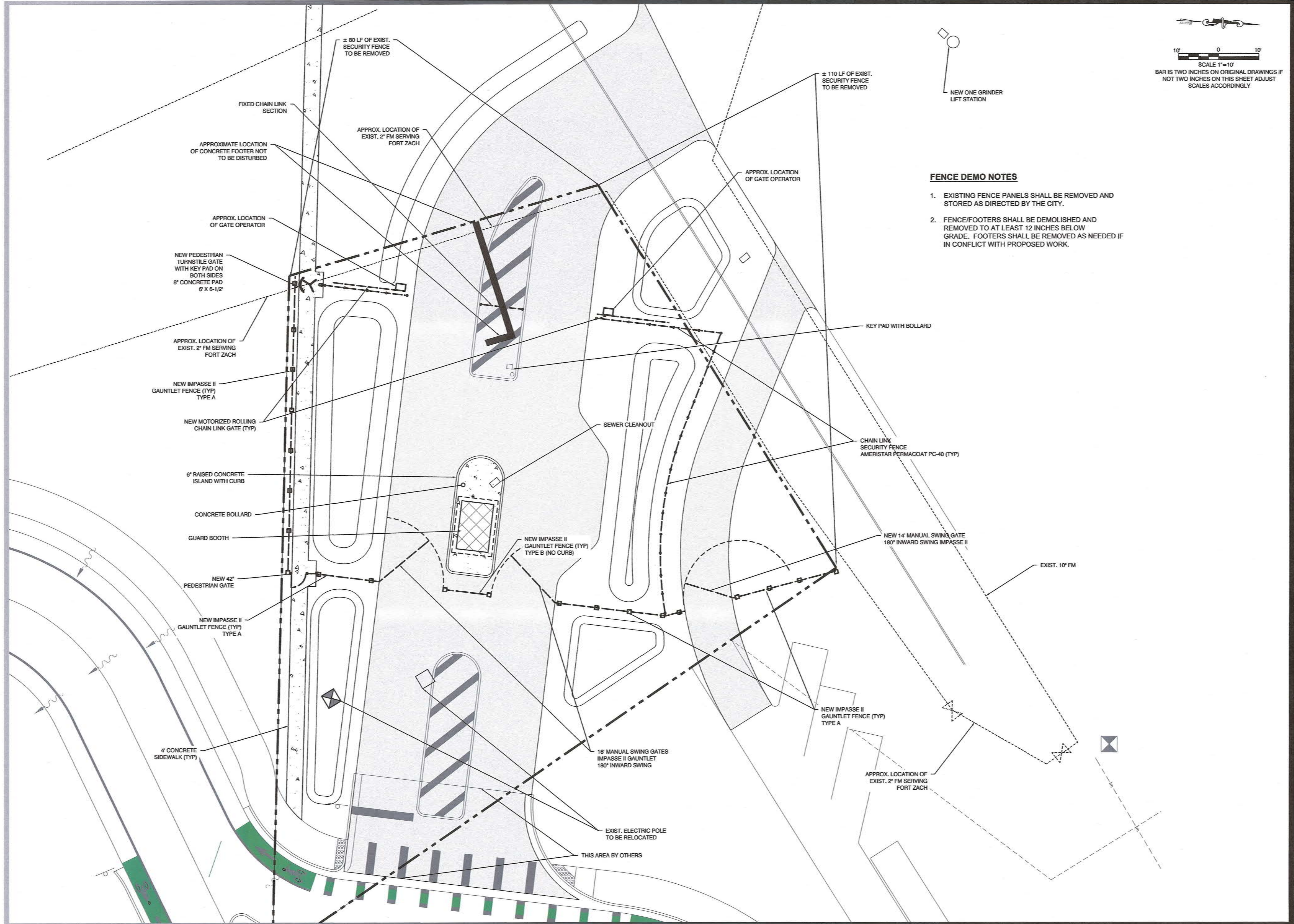
C-5



CIVIL ENGINEERING • REGULATORY PERMITTING • CONSTRUCTION MANAGEMENT

PEREZ ENGINEERING
& DEVELOPMENT, INC.

KEY WEST OFFICE
1010 EAST KENNEDY DRIVE, SUITE 201
KEY WEST, FLORIDA 33040
TEL: (305) 293-9440 FAX: (305) 296-0243



FENCE DEMO NOTES

1. EXISTING FENCE PANELS SHALL BE REMOVED AND STORED AS DIRECTED BY THE CITY.
2. FENCE/FOOTERS SHALL BE DEMOLISHED AND REMOVED TO AT LEAST 12 INCHES BELOW GRADE. FOOTERS SHALL BE REMOVED AS NEEDED IF IN CONFLICT WITH PROPOSED WORK.

CIVIL ENGINEERING • REGULATORY PERMITTING • CONSTRUCTION MANAGEMENT

PEREZ ENGINEERING & DEVELOPMENT, INC.
1010 EAST KENNEDY DRIVE, SUITE 201
KEY WEST, FLORIDA 33040
TEL: (305) 255-5440 FAX: (305) 256-0243
CERTIFICATE OF AUTHORIZATION NO. 9879

ORIGINAL: AUGUST 2016

REVISIONS:
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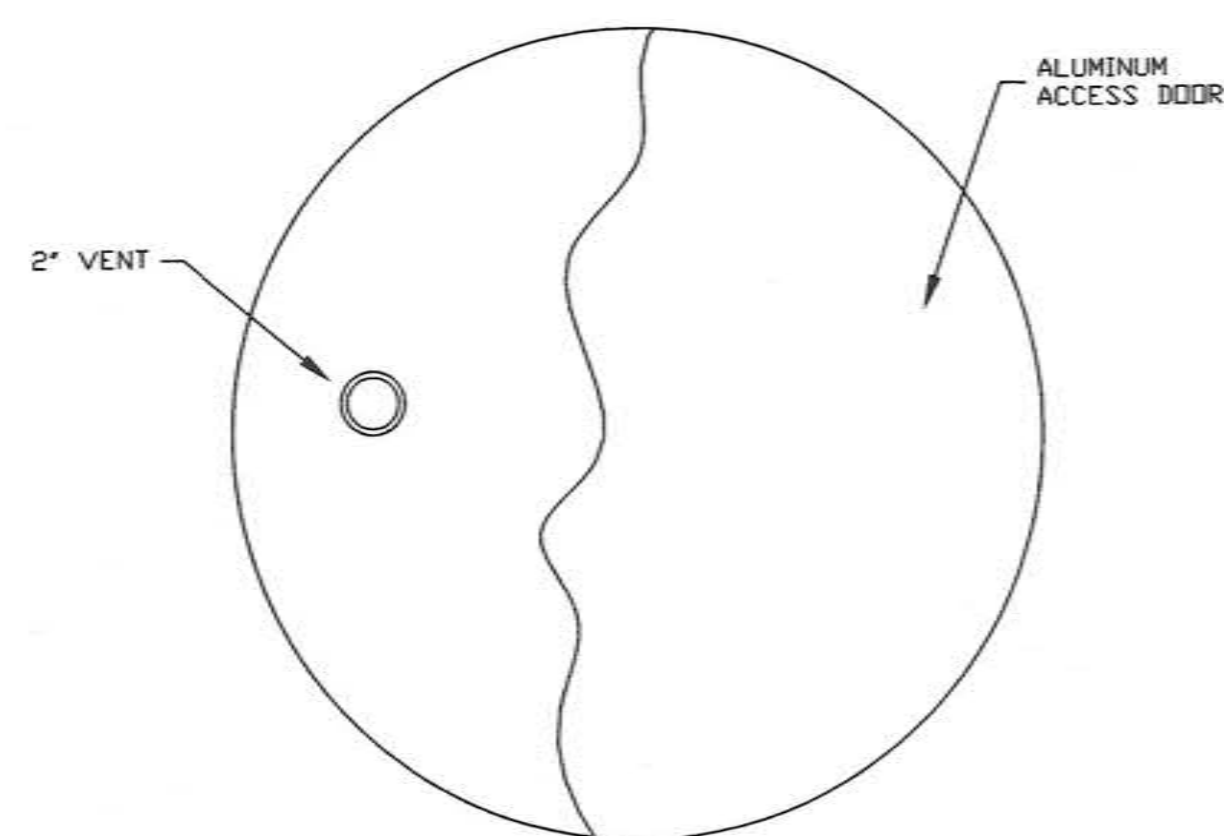
CITY OF KEY WEST
ENGINEERING DEPARTMENT
3140 FLAGLER AVENUE
KEY WEST, FL. 33040

**MOLE PIER
ENTRY CONTROL POINT**

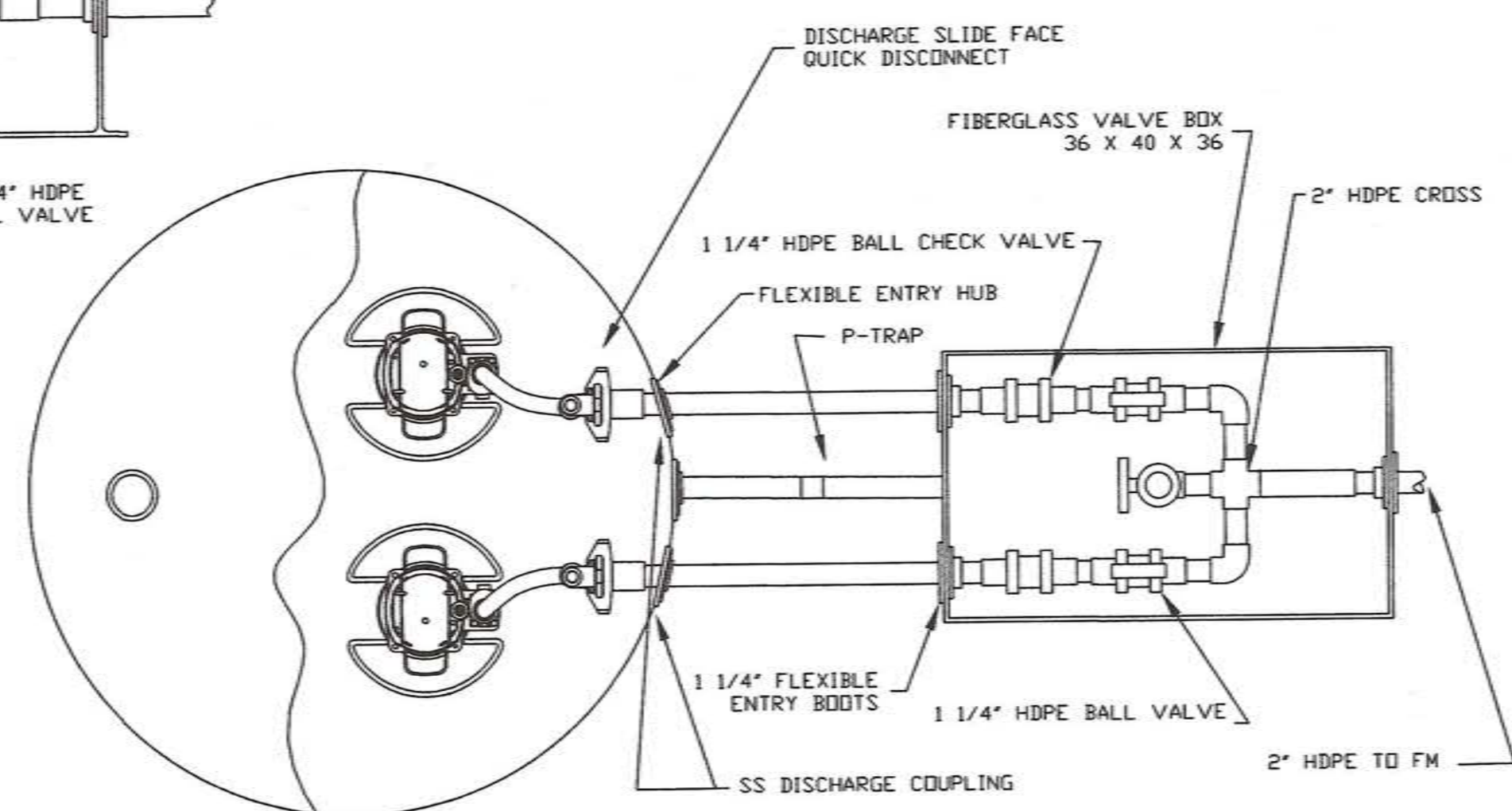
ENLARGED SITE PLAN

JOB NO. 161032
DRAWN BGO
DESIGNED AEP
CHECKED AEP
QC
SHEET

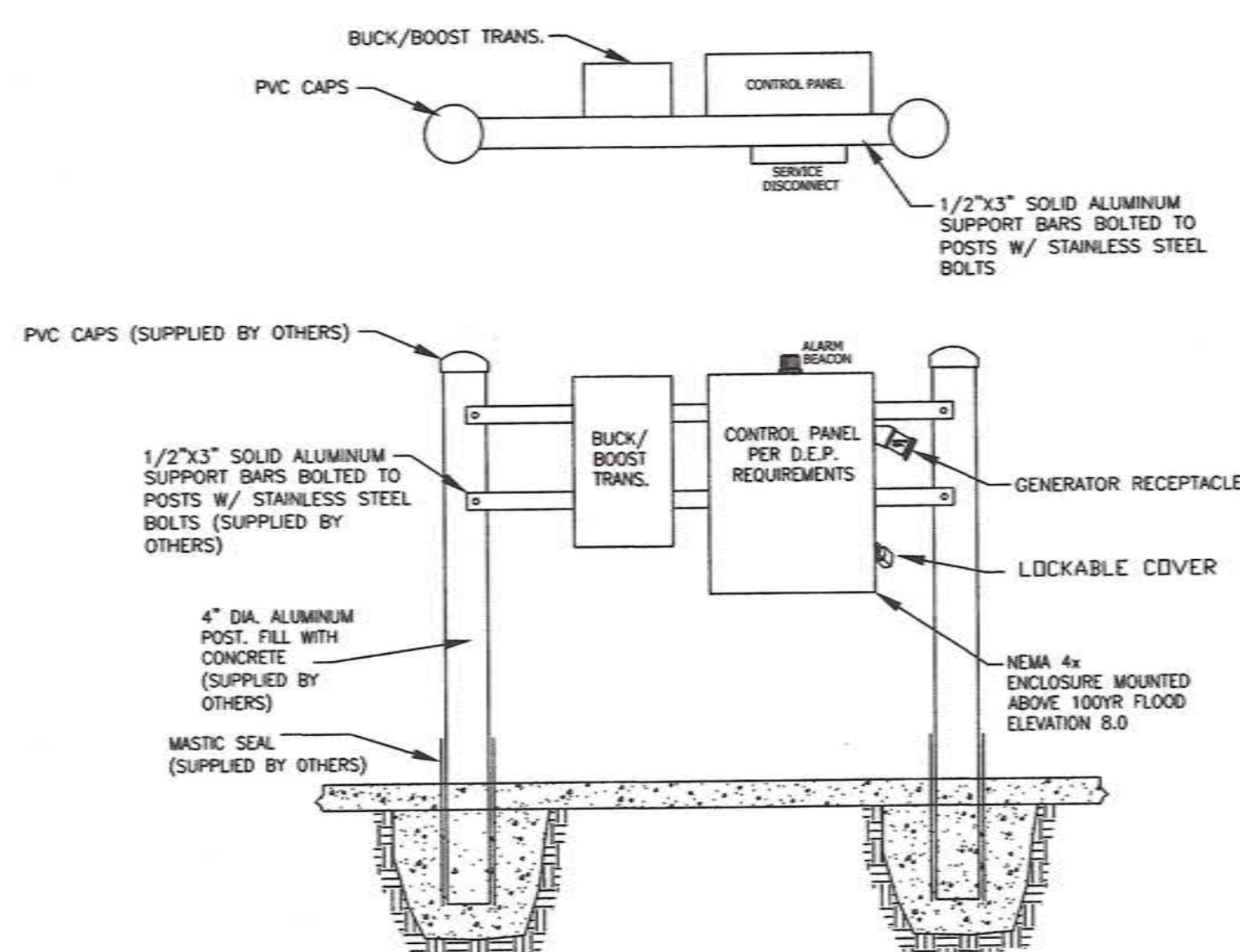
C-6



3 Plan View Aluminum Cover
NTS



2 Lift Station Plan View (View Exaggerated for Detail)
NTS



4 Control Panel Layout

A	GRADE (TOP)	8.00
B	BOTTOM	0.00
C	INVERT ELEV.	3.00
D	LEAD PUMP ON	2.15
E	LAG PUMP ON	1.50
F	BOTH PUMPS OFF	1.15
H	INLET SIZE	<input checked="" type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> 8" <input type="checkbox"/> OTHER _____
I	INLET TYPE	<input type="checkbox"/> SCH-40 <input checked="" type="checkbox"/> SDR-35
J	VALVE BOX	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
K	VALVE BOX PIPE	<input checked="" type="checkbox"/> SCH-40 <input type="checkbox"/> SCH-80 <input type="checkbox"/> HDPE SDR11
L	VENT TYPE	<input checked="" type="checkbox"/> STANDARD MUSHROOM VENT <input type="checkbox"/> WRT VENT / CHECK <input type="checkbox"/> WRT ODOR VENT

DIAMETER (A)	HEIGHT (B)	COVER OVER DISCHARGE (C)
<input type="checkbox"/> 36"	<input checked="" type="checkbox"/> 96"	<input type="checkbox"/> 12"
<input checked="" type="checkbox"/> 48"	<input type="checkbox"/> 102"	<input type="checkbox"/> 18"
<input type="checkbox"/> 60"	<input type="checkbox"/> 108"	<input type="checkbox"/> 24"
<input type="checkbox"/> 72"	<input type="checkbox"/> 114"	<input type="checkbox"/> 30"
<input type="checkbox"/> OTHER _____	<input type="checkbox"/> 120"	<input checked="" type="checkbox"/> 36"
	<input type="checkbox"/> 126"	<input type="checkbox"/> 48"
	<input type="checkbox"/> 132"	<input type="checkbox"/> OTHER _____
	<input type="checkbox"/> 138"	BY ENGINEER OR CONTRACTOR
	<input type="checkbox"/> 144"	
	<input type="checkbox"/> OTHER _____	

<u>1</u>	NEMA 4X ENCLOSURE <input checked="" type="checkbox"/> FIBERGLASS (standard)	<input type="checkbox"/> S.S. ENCLOSURE (upgrade)
<u>2</u>	FLORIDA D.E.P. COMPLIANT <input checked="" type="checkbox"/>	
<u>3</u>		
<u>4</u>		
<u>5</u>		
ADDITIONAL OPTIONS		
<input type="checkbox"/>	HIGH TIDE SATELLITE SCADA SYSTEM	
_____	# OF DIGITAL INPUTS	
_____	# OF ANALOG INPUTS	<input type="checkbox"/> NEMA 4X ENCLOSURE

WET WELL DUPLEX IS SUPPLIED WITH
EJONE U-SERIES 1HP, 240V,
SINGLE PHASE GRINDER PUMPS. EACH PUMP
INCLUDES CHECK VALVE, ANTI-SIPHON VALVE
AND INTEGRAL CONTROLS.

DESIGN DATA

THE WORK DEPICTED HEREIN WAS DESIGNED TO MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 5TH EDITION (2014)

OCCUPANCY CLASSIFICATION: U

THE FOLLOWING LOADINGS WERE USED:
WIND LOAD: 180 MPH (ASCE 7-10) EXPOSURE D
FLOOR LIVE LOAD: 100 PSF

FOUNDATION DESIGN IS FOR PAR-KUT INTERNATIONAL, INC FACTORY ASSEMBLED STEEL SECURITY BUILDING, HAVING DIMENSIONS OF 7x12, AS SPECIFIED ON ESTIMATE DATED OCTOBER 4, 2016, FROM EVAN ORLOWSKY & ASSOCIATES, INC.

GENERAL NOTES

1. THESE PLANS ARE FOR THE WORK AT THE LOCATION SO DESIGNATED HEREIN.
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, EQUIPMENT AND SUPERVISION NECESSARY TO PROVIDE THE WORK COMPLETE AND READY FOR USE.
3. THERE SHALL BE NO DEVIATION FROM THESE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD.
4. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BEFORE BID, CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK SITE AND REPORT ANY DISCREPANCIES, DIFFERENCES OR CONDITIONS THAT ARE UNSATISFACTORY OR UNSAFE.
5. NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY DISCREPANCIES, DIFFERENCES, UNSATISFACTORY OR UNSAFE CONDITIONS. ANY MODIFICATIONS OR CHANGES MADE WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER AND ENGINEER OF RECORD SHALL NOT BE ALLOWED. ANY REWORK, RESTORATION OR OTHER IMPACT AS A RESULT OF NOT OBTAINING SUCH PRIOR APPROVAL WILL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR COMPENSATION FROM THE OWNER.
6. THE CONTRACTOR SHALL PROVIDE FOR THE SAFETY, PREVENTION OF INJURY OR OTHER LOSS AT THE JOB TO ALL PERSONS EMPLOYED IN THE WORK, PERSONS VISITING THE WORK AND THE GENERAL PUBLIC. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE PREVENTION OF DAMAGE, DUE TO THE WORK, TO MATERIALS OR EQUIPMENT AND OTHER PROPERTY AT THE SITE OR ADJACENT THERETO.
7. NO RESEARCH AS TO THE PRESENCE OF UNDERGROUND UTILITIES HAS BEEN INCLUDED ON OR PERFORMED FOR THIS PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING SUNSHINE UTILITY LOCATE SERVICE PRIOR TO ANY CONSTRUCTION WITHIN ANY PUBLIC RIGHT-OF-WAY OR OTHER AREAS WHERE UNDERGROUND UTILITIES MAY BE PRESENT (I.E. IN AND AROUND UTILITY EASEMENTS, ETC.)
8. THE GENERAL CONTRACTOR SHALL PROVIDE AN ON-SITE DUMPSTER IN A LOCATION COORDINATED WITH THE OWNER FOR THE DISPOSAL OF REMOVED MATERIAL AND CONSTRUCTION DEBRIS. THE DUMPSTER SHALL BE EMPTIED AT APPROPRIATE INTERVALS TO PREVENT OVERFLOW AND UNSIGHTLY CONDITIONS.
9. THE CONTRACTOR SHALL PERFORM ALL WORK IN STRICT CONFORMANCE WITH THE PLANS, THE FLORIDA BUILDING CODE, 5TH EDITION (2014), LOCAL CODES AND ORDINANCES, MANUFACTURER RECOMMENDATIONS AND ACCEPTABLE TRADE PRACTICES. ANY CONFLICT BETWEEN THESE REQUIREMENTS AND THE MOST STRINGENT REQUIREMENTS SHALL GOVERN THE WORK.
10. SHOP DRAWINGS OF ALL PREFABRICATED STRUCTURAL FLOOR AND ROOF SYSTEMS AND MECHANICAL SYSTEMS SHALL BEAR THE SEAL OF A FLORIDA PROFESSIONAL ENGINEER AS REQUIRED BY THE FLORIDA BUILDING CODE, 5TH EDITION (2014) AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD BY THE CONTRACTOR FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
11. THE CONTRACTOR SHALL NOT SCALE DRAWINGS. ANY INFORMATION THAT THE CONTRACTOR CANNOT OBTAIN FROM DIMENSIONS, DETAIL OR SCHEDULE SHALL BE OBTAINED FROM THE ENGINEER OF RECORD.
12. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES TO PREVENT ANY CONFLICTS.
13. THE CONTRACTOR SHALL FURNISH ALL SUBCONTRACTORS WITH A COMPLETE SET OF PLANS. ALL CHANGES SHALL BE NOTED ON THE DRAWINGS AND (2) COMPLETE AS-BUILT SETS SHALL BE DELIVERED TO THE OWNER AFTER COMPLETION OF WORK.

FOUNDATION & CONCRETE NOTES

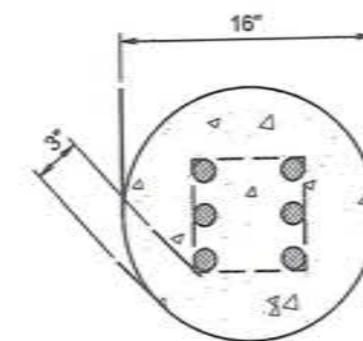
1. ALL FOOTINGS ARE TO BE PLACED ON FIRM, UNDISTURBED, NATURAL ROCK UNLESS OTHERWISE NOTED.
2. AUGER PILE DIAMETERS AND EMBEDMENT SHALL BE NO LESS THAN 16" DIAMETER NOR LESS THAN 6" DEPTH BELOW GRADE WITH (4) 2x4" #4 BENT BARS WITH SHORT LEG TIED TO #6S AND LONG LEG EXTENDED INTO SLAB IN FOUR DIRECTIONS UNLESS OTHERWISE NOTED. CONCRETE SHALL NOT BE MIXED IN PLACE IN A WET AUGER HOLE.
3. CENTER ALL FOOTINGS UNDER WALLS, COLUMNS OR GRID LINES UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL FURNISH FIELD DENSITY TESTS ON COMPACTED FILL UNDER FOOTINGS AND SLABS PRIOR TO PLACING CONCRETE. A MINIMUM OF 3 REPRESENTATIVE TESTS SHALL BE TAKEN FOR EACH FOOTING AND SLAB POUR.
5. ALL CAST-IN-PLACE CONCRETE SHALL BE MADE WITH TYPE I PORTLAND CEMENT, STONE AGGREGATE AND SHALL DEVELOP AT LEAST 4000 PSI COMPRESSIVE STRENGTH IN 28 DAYS. (UNLESS OTHERWISE NOTED.)
6. SLABS, TOPPING, FOOTINGS, BEAMS AND WALLS SHALL NOT HAVE JOINTS IN THE HORIZONTAL PLANE. ANY STOP IN CONCRETE WORK MUST BE MADE AT THE CENTER OF SPAN WITH VERTICAL BULKHEADS AND SHEAR KEYS, UNLESS OTHERWISE NOTED. ALL CONSTRUCTION JOINTS SHALL BE AS DETAILED OR OTHERWISE APPROVED BY THE ENGINEER.
7. ALL CONCRETE WORK AND REINFORCING DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 318. EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER. USE STANDARD HOOKS ON DOWELS UNLESS OTHERWISE NOTED.
8. CONCRETE FORMS SHALL BE WETTED IMMEDIATELY PRIOR TO PLACING CONCRETE.
9. MIXING, PLACING AND CURING OF ALL CONCRETE MUST BE IN ACCORDANCE WITH ACI 308R, HOT WEATHER CONCRETING. NEW CONCRETE EXPOSED TO DIRECT SUNLIGHT SHALL BE SPRAYED OR MOPPED WITH A CURING COMPOUND TO SEAL IN MOISTURE AFTER THE FINISH HAS SET, OR THE CONCRETE COVERED AND SPRAYED.
10. PROVIDE PLASTIC SLEEVES IN MASONRY PARTITIONS AND CONCRETE FOUNDATIONS AS INDICATED AND REQUIRED FOR UTILITY SERVICES. NO OTHER PIPE, CONDUIT OR ACCESSORY SHALL BE PLACED IN STRUCTURAL SLABS, COLUMNS OR BEAMS UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.
11. PROVIDE MASONRY FILLED CELL OR CONCRETE COLUMN WITH (1) #6 REBAR FROM BEAM TO BEAM ON BOTH SIDES OF ALL EXTERIOR OPENINGS.
12. ALL REINFORCING SHALL BE HIGH STRENGTH DEFORMED BARS CONFORMING TO ASTM A-615, GRADE 60.
13. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND SHALL BE LAPPED ONE FULL MESH AND AT SIDE AND END SPLICES AND WIRED TOGETHER.
14. REINFORCEMENT COVERAGE SHALL BE 2" MINIMUM WHEN FORMS ARE USED AND 3" MINIMUM WHEN POURED AGAINST THE EARTH. UNLESS OTHERWISE NOTED.
15. LAP SPLICES SHALL BE A MINIMUM OF 48 BAR DIAMETERS. MAKE ALL BARS CONTINUOUS AROUND CORNERS.
16. PROVIDE ALL ACCESSORIES NECESSARY TO SECURE REINFORCING IN PROPER POSITION AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH ACI 318. ALL ACCESSORIES TO BE GALVANIZED.
17. ALL UNIT MASONRY CONSTRUCTION AND DETAILS SHALL BE IN ACCORDANCE WITH ACI 530.
18. CONCRETE BLOCK SHALL CONFORM WITH ASTM C90. MORTAR SHALL BE TYPE S, ASTM C270.
19. ANCHOR BOLTS, NUTS AND WASHERS SHALL BE MINIMUM 3/8" GALVANIZED STEEL AND EMBEDDED MINIMUM 7" INTO CONCRETE AND SPACED MAXIMUM 4' O.C.
20. MANUFACTURED STRAPS AND ANCHORS SHALL BE GALVANIZED AND SHALL BE FASTENED PER THE MANUFACTURER'S RECOMMENDATIONS. IN NO EVENT SHALL A STRUCTURAL MEMBER SUCH AS PIER, SILL, JOIST, PLATE, RAFTER OR TRUSS BE WITHOUT ANCHORAGE DEVICES FOR HURRICANE PROTECTION, UNLESS SPECIFICALLY NOTED AND ADDRESSED BY OTHER MEANS.

NOTES:

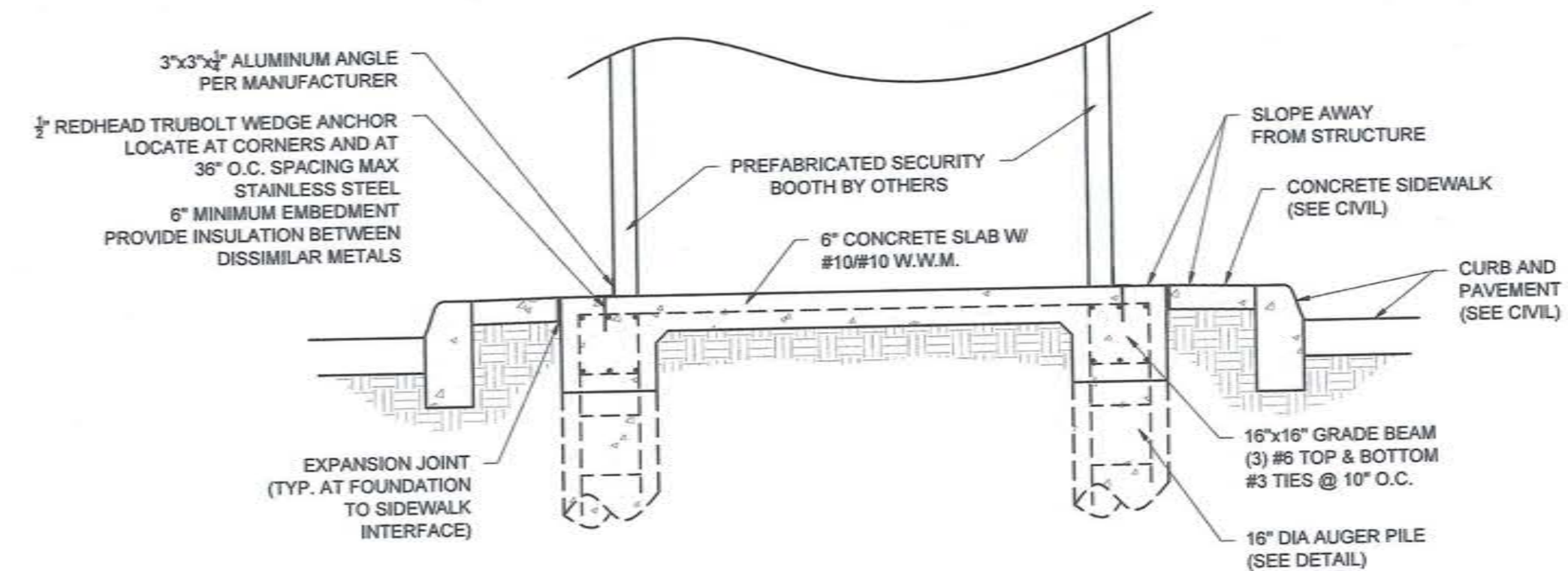
1. SECURITY BOOTH SHALL BE DESIGNED TO MEET THE WINDLOAD REQUIREMENTS FOR 180 MPH, EXPOSURE D IN ACCORDANCE WITH ASCE 7-10
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND DESIGN CALCULATIONS FOR PRE-FABRICATED SECURITY BOOTH FOR APPROVAL PRIOR TO FABRICATION. REQUIRED LOADINGS MUST BE COORDINATED WITH STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION OF FOUNDATION.
3. CONTRACTOR TO PROVIDE GROUNDING PER MANUFACTURER RECOMMENDATION AND PER 2014 NEC CODE.

AUGER PILE DETAIL

SCALE: N.T.S.

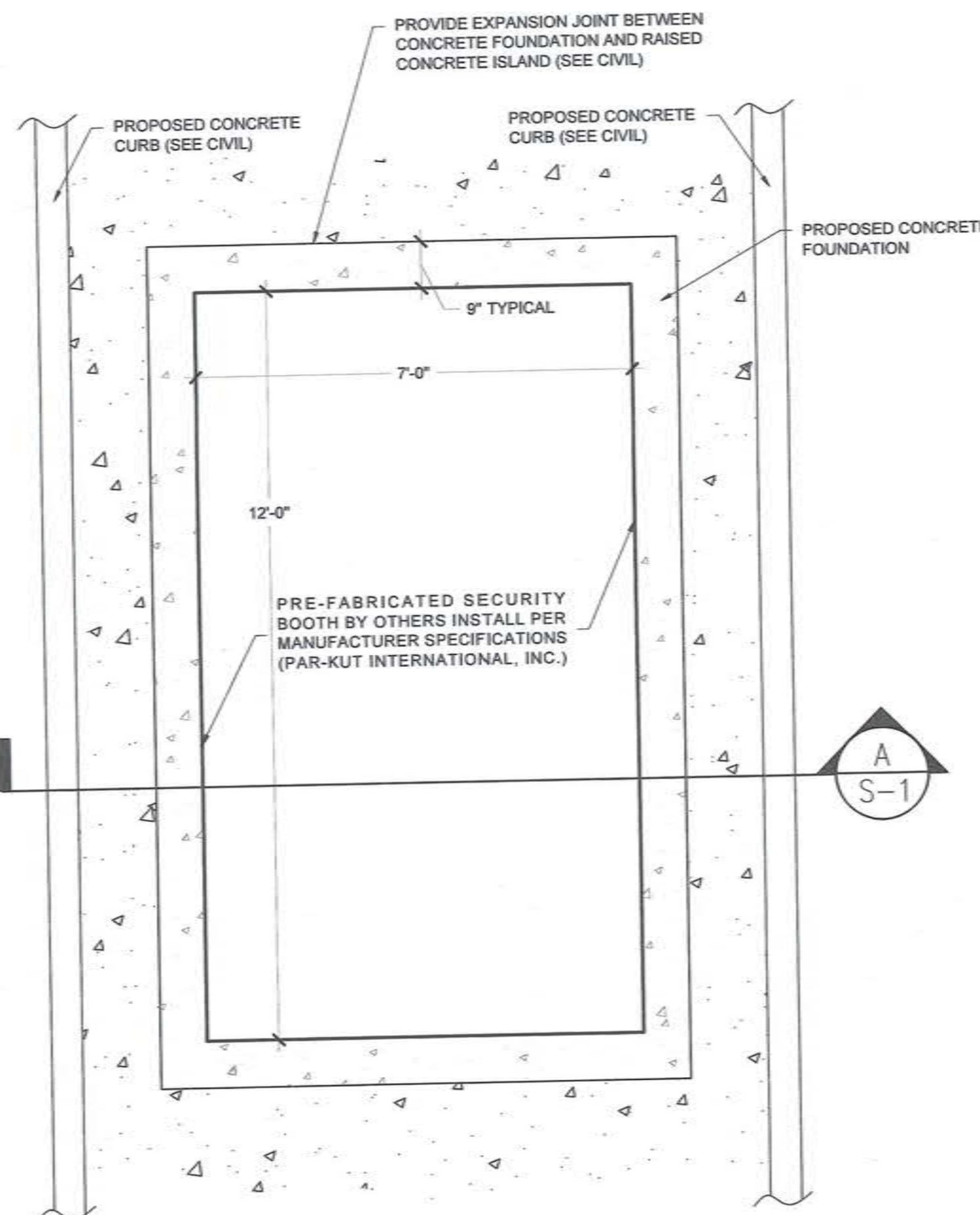


16" DIA CONCRETE AUGER PILE
w/ (4) #6 VERTICAL BARS, #3 TIES
@ 10" O.C. 8" MIN. DEPTH BELOW
PROPOSED GRADE BEAM.
CLEAN HOLES BEFORE PLACING
4,000 PSI CONCRETE



SECTION VIEW - FOUNDATION

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



SECURITY BOOTH PLAN

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

FOUNDATION PLAN

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



ORIGINAL: AUGUST 2016

REVISIONS:

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CITY OF KEY WEST

ENGINEERING DEPARTMENT

3140 FLAGLER AVENUE

KEY WEST, FL. 33040

ENTRY CONTROL POINT

STRUCTURAL PLAN - SECURITY BOOTH

JOB NO. 161032

DRAWN BGO

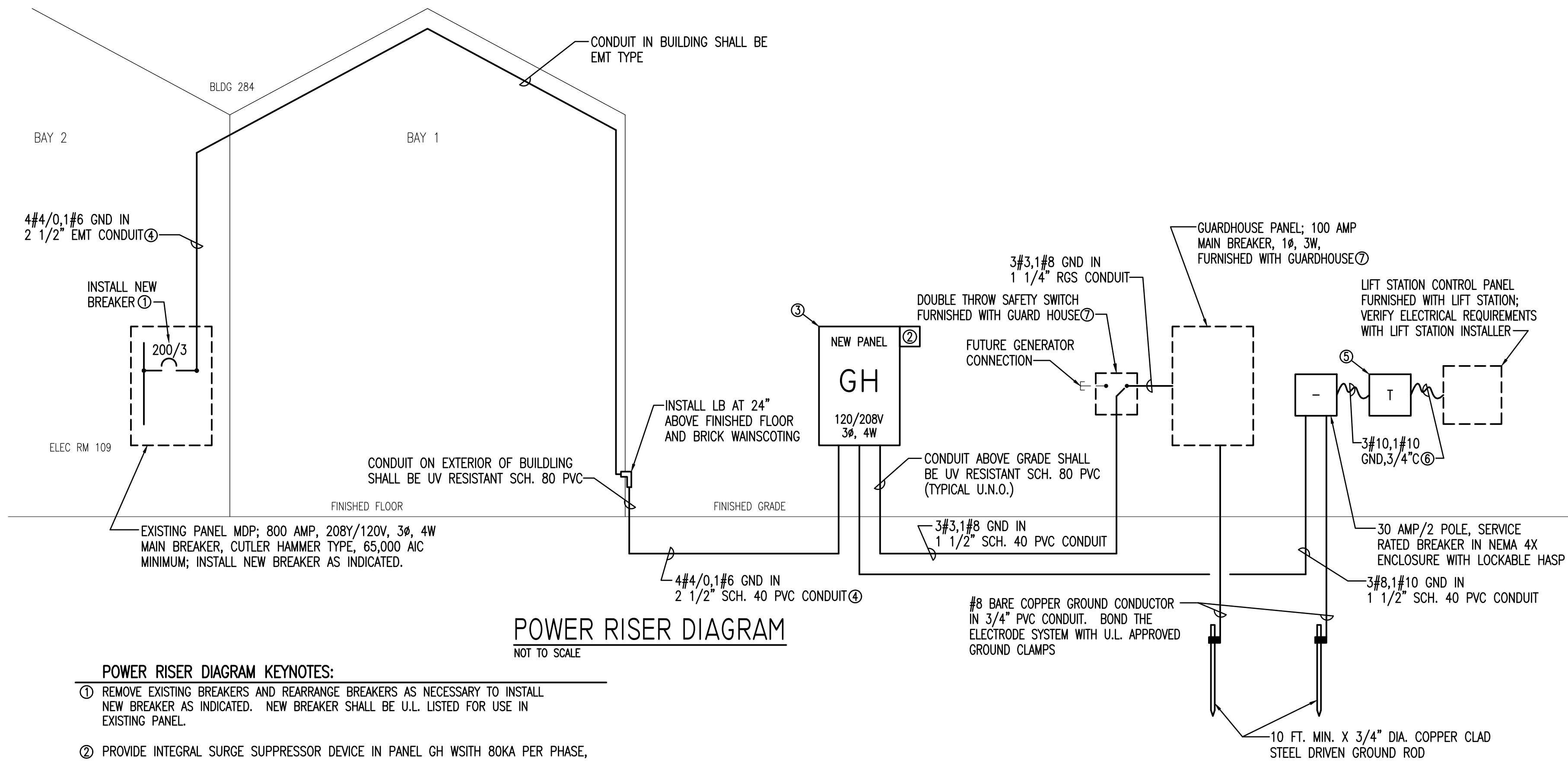
DESIGNED AEP

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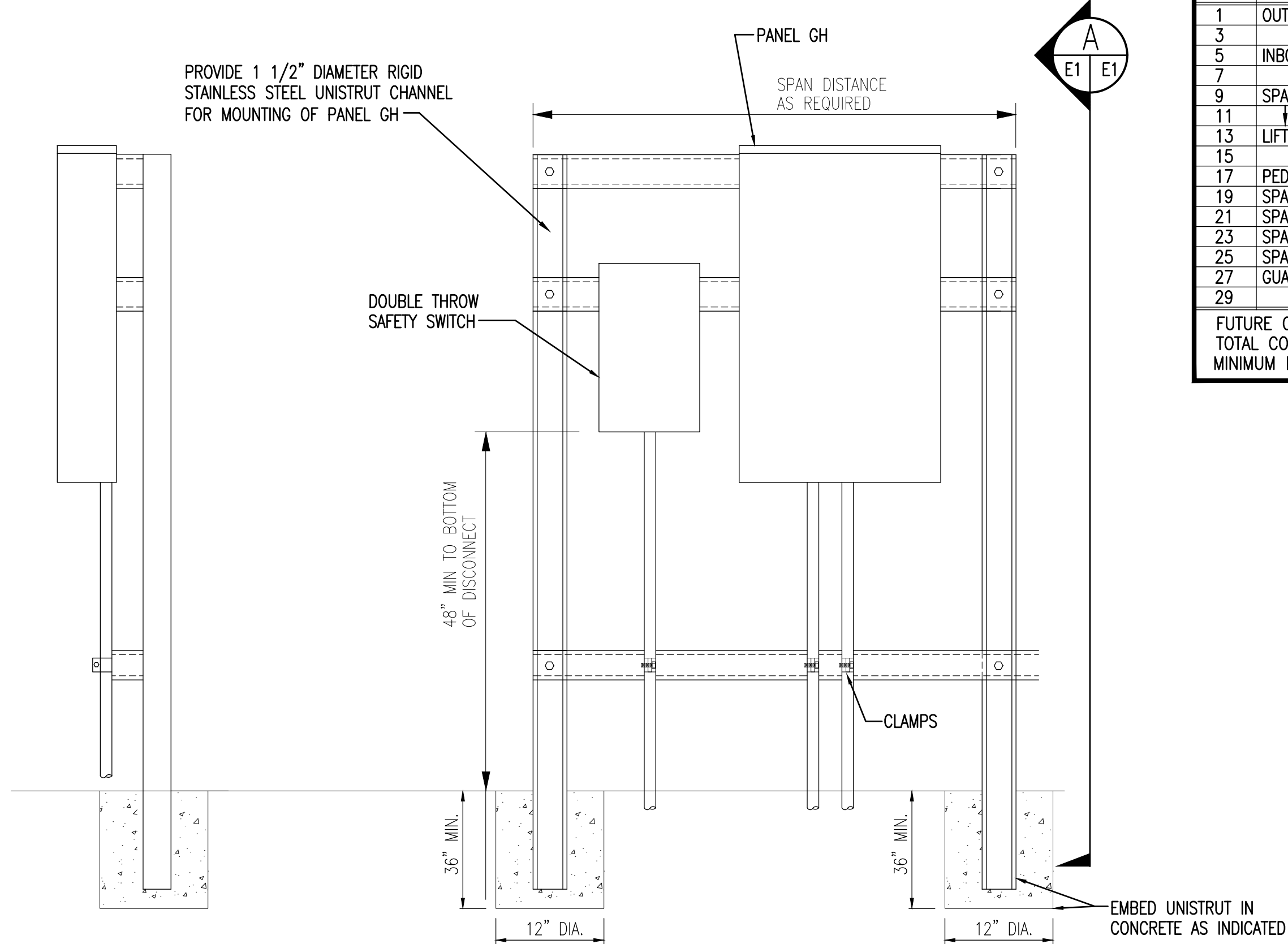
S:\2016 Jobs\46 Outer Mole Entry Control Point\1646 E-1 Legend, Notes & Riser.dwg (Model) Plotted on: Aug 15, 2017 - 9:23am by Quinn Z680



POWER RISER DIAGRAM
NOT TO SCALE

POWER RISER DIAGRAM KEYNOTES:

- 1 REMOVE EXISTING BREAKERS AND REARRANGE BREAKERS AS NECESSARY TO INSTALL NEW BREAKER AS INDICATED. NEW BREAKER SHALL BE U.L. LISTED FOR USE IN EXISTING PANEL.
- 2 PROVIDE INTEGRAL SURGE SUPPRESSOR DEVICE IN PANEL GH WITH BOKA PER PHASE, SINE WAVE TRACKING TYPE, INDICATING LIGHTS, ALARM SURGE COUNTER AND DISCONNECT SWITCH. VERIFY VOLTAGE AND PHASE FOR PANEL.
- 3 COORDINATE EXACT LOCATION OF GUARDHOUSE PANEL WITH CONTRACTING OFFICER REPRESENTATIVE PRIOR TO ROUGH-IN. SEE PANEL GH MOUNTING DETAIL.
- 4 CONDUCTORS SHALL BE INSTALLED CONTINUOUS (NOT SPLICED) FROM EXISTING PANEL MDP TO NEW PANEL GH
- 5 .75 KVA BUCK/BOOST ENCAPSULATED TRANSFORMER, 208V TO 240V, SINGLE PHASE, ENVIRONMENT ONE PART # PA0219P03; INSTALL PER MANUFACTURER'S RECOMMENDATIONS
- 6 CONDUIT SHALL BE LIQUID TIGHT FLEXIBLE TYPE
- 7 VERIFY DOUBLE THROW SAFETY SWITCH AND GUARDHOUSE PANEL ARRANGEMENT WITH EQUIPMENT FURNISHED; INSTALL PER MANUFACTURER'S RECOMMENDATIONS.



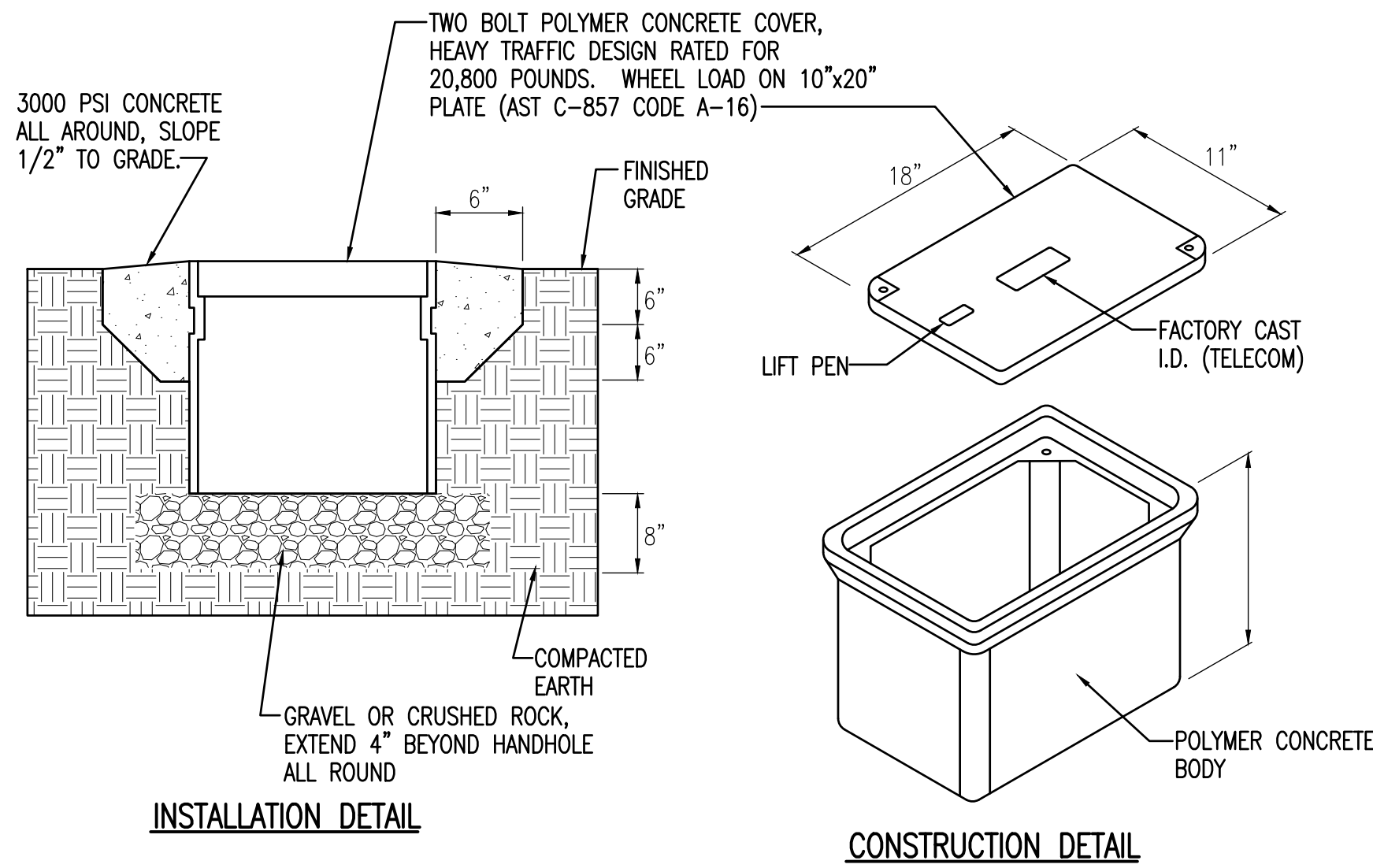
SECTION
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NOT TO SCALE

PANEL GH MOUNTING DETAIL
NOT TO SCALE

CIRCUIT BREAKER PANEL SCHEDULE NEW PANEL GH									
120/208 VOLT 3Ø 4W 200 AMP MAIN BREAKER PANEL DOOR SHALL BE LOCKABLE									
SURFACE MOUNTED NEMA 4X ENCLOSURE									
CKT	LOAD DESCRIPTION	BREAKER POLE AMP		LOAD KVA	BREAKER AMP POLE		LOAD DESCRIPTION	CKT	
1	OUTBOUND GATE OPERATOR (1HP)	2	15	1.66	20	1	SPARE	2	
3	↓	↓	↓	↓	20	1	SPARE	4	
5	INBOUND GATE OPERATOR (1HP)	2	15	1.66	20	1	SPARE	6	
7	↓	↓	↓	↓	20	1	SPARE	8	
9	SPARE	2	15		20	1	SPARE	10	
11	↓	↓	↓	↓	20	1	SPARE	12	
13	LIFT STATION (TWO 1HP)	2	30	3.33	20	1	SPARE	14	
15	↓	↓	↓	↓	20	1	SPARE	16	
17	PEDESTRIAN TURNSTILE	1	20	.3	20	1	SPARE	18	
19	SPARE	1	20		20	1	SPARE	20	
21	SPACE	1	---		20	2	SPARE	22	
23	SPACE	1	---		↓	↓		24	
25	SPACE	1	---		---	1	SPACE	26	
27	GUARD SHACK	2	100	6.26	---	1	SPACE	28	
29	↓	↓	↓	↓	---	1	SPACE	30	
FUTURE CONNECTED LOAD: 7.50 KVA TOTAL CONNECTED LOAD: 13.21 KVA MINIMUM INTERRUPTING CAPACITY: 10,000 AMPS SYMMETRICAL									
① VERIFY BREAKER SIZE WITH EQUIPMENT FURNISHED									

ELECTRICAL GENERAL NOTES

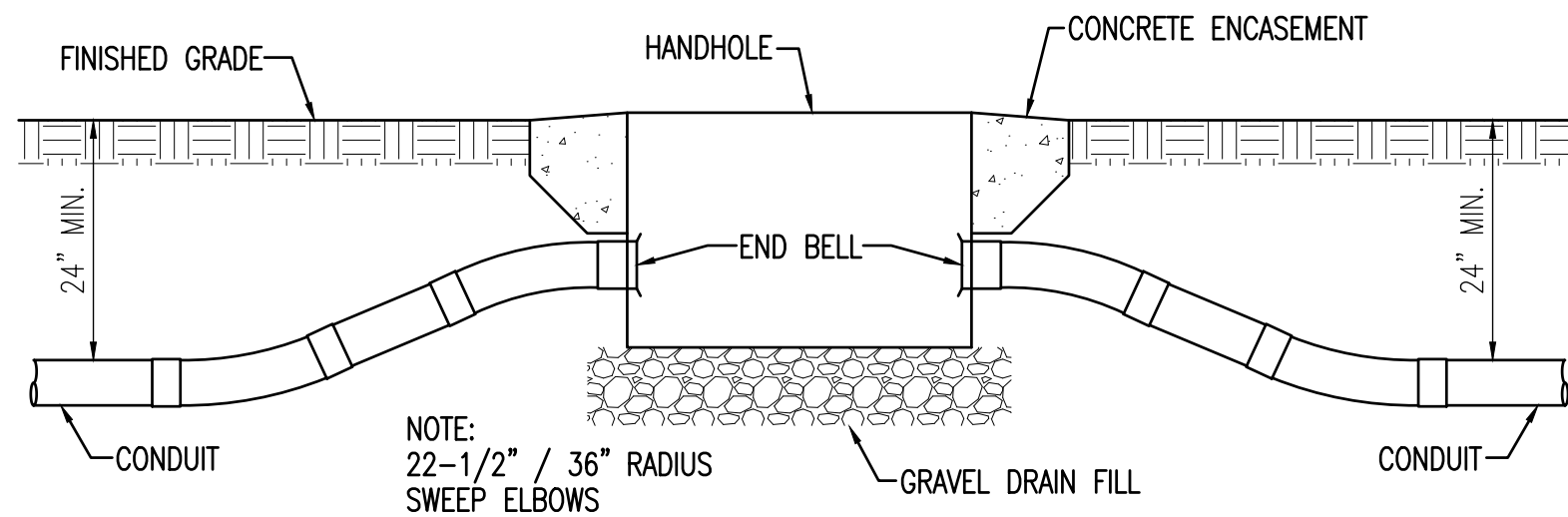
1. CONTRACTOR SHALL COORDINATE ALL WORK WITH MOTORIZED GATE INSTALLERS PRIOR TO INSTALLATION. VERIFY MOTORIZED GATE LOCATIONS WHICH ARE BY OTHERS AND CONNECTED BY ELECTRICAL.
2. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
3. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, DISCONNECTS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM, INCLUDING MODIFICATIONS TO EXISTING PANELS.
4. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
5. FURNISH ALL EQUIPMENT AND LABOR, PERFORM ALL LABOR WITH SUPERVISION, BEAR ALL EXPENSES, AS NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL WORK READY FOR OPERATION.
6. COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE AND THE NATIONAL ELECTRIC CODE. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
7. THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS/DISCREPANCIES BETWEEN DISCIPLINES BEFORE ORDERING EQUIPMENT/MATERIALS.
8. ALL CONDUCTORS INDICATED ON PLAN SHALL BE COPPER.
9. OBTAIN ENGINEER AND OWNER'S REPRESENTATIVE APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, CONDUIT, WIRE, EQUIPMENT, ETC. PRIOR TO PURCHASING; SEE SPECIFICATIONS FOR SUBMITTAL DETAILS.
10. THE ELECTRICAL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL NOT SO INSTALLED SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.
11. EQUIPMENT GROUNDING CONDUCTOR SHALL BE PULLED IN ALL BRANCH CIRCUIT WIRING. CONDUIT GROUND SHALL NOT BE ACCEPTABLE.
12. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE 2014 EDITION.



COMMUNICATIONS HANDHOLE NOTES:

- 1) INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND REQUIREMENTS INDICATED IN DETAIL.
- 2) TERMINATE CONDUITS ENTERING MANHOLE WITH END BELL (CARLON E97). CONSTRUCT CONDUIT RISE TO ENTER BOX FROM SIDE WITH 22-1/2" SWEEP ELBOWS. SEE 'TYPICAL HANDHOLE CONDUIT ENTRY DETAIL'

TYPICAL HANDHOLE DETAIL
NOT TO SCALE

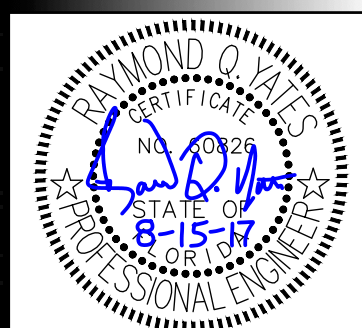


TYPICAL HANDHOLE CONDUIT ENTRY DETAIL
NOT TO SCALE

YATES ENGINEERING
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PEREZ ENGINEERING
& DEVELOPMENT, INC.
CERTIFICATE OF AUTHORIZATION NO. 9579



REVISIONS:	ORIGINAL: February 24, 2017
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ENGINEERING DEPARTMENT
3140 FLAGLER AVENUE
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MOLE PIER
ENTRY CONTROL POINT

JOB NO. 161032
DRAWN RQY
DESIGNED RQY
CHECKED RQY
QC
SHEET



ELECTRICAL SITE PLAN
SCALE: 1"=20'

- KEYNOTES:**
1. INSTALL 1" PVC CONDUIT WITH PULL RIBBON FOR KEYPAD; STUB OUT, CAP AND MARK LOCATION OF STUB OUT FOR KEYPAD
 2. INSTALL TWO (2) 2" PVC CONDUITS WITH PULL RIBBONS FOR CONTROL COMM, AND CCTV; CAP AND MARK LOCATION OF STUB OUTS FOR GUARDHOUSE
 3. INSTALL TWO (2) 2" PVC CONDUITS WITH PULL RIBBONS FOR CONTROL COMM, AND CCTV FOR KMPD GUARDHOUSE
 4. INSTALL 1" PVC CONDUIT WITH PULL RIBBONS FOR INBOUND GATE; STUB OUT, CAP, AND MARK LOCATION OF STUB OUT FOR INBOUND GATE
 5. INSTALL TWO (2) 1" PVC CONDUIT WITH PULL RIBBONS FOR FUTURE LIGHTING CIRCUIT AND CCTV FROM GUARDHOUSE TO EACH SIDE OF ROAD; STUB OUT, CAP, AND MARK LOCATION OF STUB OUTS.
 6. HYSECURITY GATE CONTROLLER MODEL TO MATCH EXISTING TYPE ON SITE, 1 HP, 240V, 1Ø; INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 7. VERIFY EXACT LOCATION OF 100 AMP GUARD HOUSE PANEL AND DOUBLE THROW SAFETY SWITCH PRIOR TO ROUGH-IN; SEE POWER RISER DIAGRAM
 8. PEDESTRIAN TURNSTILE TOMSED MODEL THT-100ECP(3). INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 9. CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGING EXISTING UNDERGROUND UTILITIES. CUT AND PATCH EXISTING SURFACES AS NECESSARY TO INSTALL NEW FEEDER.
 10. INSTALL UNDERGROUND VEHICLE SENSING LOOP PER MANUFACTURER'S RECOMMENDATIONS AND CONNECT TO OUTBOUND HYSECURITY GATE CONTROLLER; FURNISH AND INSTALL NECESSARY CARDS, MODULES ETC. IN GATE CONTROLLER FOR VEHICLE SENSING LOOP
 11. 30 AMP/2 POLE, SERVICE RATED, ENCLOSED BREAKER IN NEMA 4X ENCLOSURE; SEE POWER RISER DIAGRAM

YATES ENGINEERING SOLUTIONS

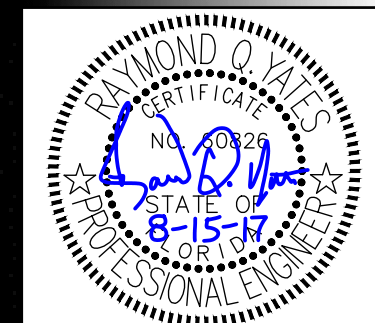
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