ATTACHMENT A

SECTION 09 29 00 GYPSUM BOARD

PART 1 - GENERAL

1.1 DESCRIPTION

This section specifies installation and finishing of gypsum board.

1.2 TERMINOLOGY

- A. Definitions and description of terms shall be in accordance with ASTM C11, C840, and as specified.
- B. Underside of Structure Overhead: In spaces where steel trusses or bar joists are shown, the underside of structure overhead shall be the underside of the floor or roof construction supported by the trusses or bar joists.

1.3 SUBMITTALS

- A. Manufacturer's Literature and Data:
 - a. Cornerbead and edge trim.
 - b. Finishing materials.
 - c. Laminating adhesive.
 - d. Gypsum board, each type.
 - e. Insulation.
- B. Shop Drawings:
 - a. Typical gypsum board installation, showing corner details, edge trim details and the like.
 - b. Typical fire rated assembly and column fireproofing, indicating details of construction same as that used in fire rating test.
- C. Test Results:
 - a. Fire rating test, each fire rating required for each assembly.
- D. Certificates: Certify that gypsum board types, gypsum backing board types, cementitious backer units, and joint treating materials do not contain asbestos material.

1.4 DELIVERY, IDENTIFICATION, HANDLING AND STORAGE

In accordance with the requirements of ASTM C840.

1.5 ENVIRONMENTAL CONDITIONS

In accordance with the requirements of ASTM C840.

1.6 REFERENCE STANDARDS

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. American Society for Testing And Materials (ASTM):
 - C11-15.....Terminology Relating to Gypsum and Related Building Materials and Systems

C475-15	.Joint Compound and Joint Tape for Finishing Gypsum Board
C665	.Standard Specification for Mineral-Fiber Blanket Thermal
	Insulation for Light Frame Construction and Manufactured
	Housing
C840-13	.Application and Finishing of Gypsum Board
C1002-14	.Steel Self-Piercing Tapping Screws for the Application of
	Gypsum Panel Products or Metal Plaster Bases to Wood Studs
	or Steel Studs
C1047-14	.Accessories for Gypsum Wallboard and Gypsum Veneer Base
C1396-14	Gypsum Board
Underwriters Laboratories Inc. (UL):
Latest Edition	.Fire Resistance Directory
Inchcape Testing Services (ITS):
Latest Editions	.Certification Listings

PART 2 - PRODUCTS

C.

D.

2.1 GYPSUM BOARD

A. Water Resistant Gypsum Backing Board: ASTM C630, Type X, 5/8 inch thick.

2.2 JOINT TAPE

Use pressure-sensitive or staple-attached open-weave glass fiber reinforcing tape with compatible joint compound where recommended by manufacturer of gypsum board and joint treatment materials for application indicated.

2.3 SETTING-TYPE JOINT COMPOUND

- A. Where setting-type joint compounds are indicated for use as taping and topping compounds, use formulation for each which develops greatest bond strength and crack resistance and is compatible with other joint compounds applied over it.
- B. For pre-filling gypsum board joints, use formulation recommended by gypsum board manufacturer.
- C. For filling joints and treating fasteners of water-resistant gypsum backing board behind base for ceramic tile, use formulation recommended by gypsum board manufacturer for this purpose

2.4 ACCESSORIES

- A. ASTM C1047, except form of 0.015 inch thick zinc coated steel sheet or rigid PVC plastic.
- B. Flanges not less than 7/8 inch wide with punchouts or deformations as required to provide compound bond.

2.5 FASTENERS

- A. ASTM C1002 and ASTM C840, except as otherwise specified.
- B. Select screws of size and type recommended by the manufacturer of the material being fastened.

- C. For fire rated construction, type and size same as used in fire rating test.
- D. Clips: Zinc-coated (galvanized) steel; gypsum board manufacturer's standard items.

2.6 FINISHING MATERIALS AND LAMINATING ADHESIVE

ASTM C475 and ASTM C840. Free of antifreeze, vinyl adhesives, preservatives, biocides and other VOC. Adhesive shall contain a maximum VOC content of 50 g/l.

2.7 THERMAL INSULATION

Unfaced Mineral Fiber Blanket Insulation: Unfaced mineral fiber blanket insulation produced by combining mineral fibers manufactured from glass with thermosetting resins to comply with ASTM C 665 for Type I. Minimum R-value of 30.

PART 3 - EXECUTION

3.1 INSTALLING GYPSUM BOARD

- A. Coordinate installation of gypsum board with other trades and related work.
- B. Install gypsum board in accordance with ASTM C840, except as otherwise specified.
- C. Single-layer gypsum board application at maximum practical lengths to minimize number of end joints.
- D. Install exposed gypsum board with face side out. Do not install imperfect, damaged, or damp boards. Butt boards together for a light contact at edges and ends with not more than 1/16" open space between boards.
- E. Bring gypsum board into contact, but do not force into place.
- F. Install ceiling boards across framing in the manner which minimizes the number of end-butt joints, and which avoids end joints in the central area of each ceiling. Stagger end joints at least 24".
- G. Position boards so that like edges abut, tapered edges against tapered edges, and mill-cut or field-cut ends against mill-cut or field-cut ends. Do not place tapered edges against cut edges or ends. Stagger vertical joints over different studs on opposite sides of partitions.
- H. Joints larger than ½" will not be accepted as satisfactory Work. Should this occur, the wallboard shall be removed and replaced with wallboard having the specified joint dimension.
- I. Single-layer fastening method with screws.

3.2 INSTALLING ACCESSORIES

- A. Set accessories plumb, level and true to line, neatly mitered at corners and intersections, and securely attach to supporting surfaces as specified.
- B. Install in one piece, without the limits of the longest commercially available lengths.
- C. Corner Beads:
 - a. Install at all external corners and where shown.
 - b. Use screws only. Do not use crimping tool.
- D. Edge Trim (casings Beads):
 - a. At both sides of expansion and control joints unless shown otherwise.

- b. Where gypsum board terminates against dissimilar materials and at perimeter of openings, except where covered by flanges, casings or permanently built-in equipment.
- c. Where gypsum board surfaces of non-load bearing assemblies abut load bearing members.
- E. Install mineral fiber insulation in accordance with manufacturer's instructions.

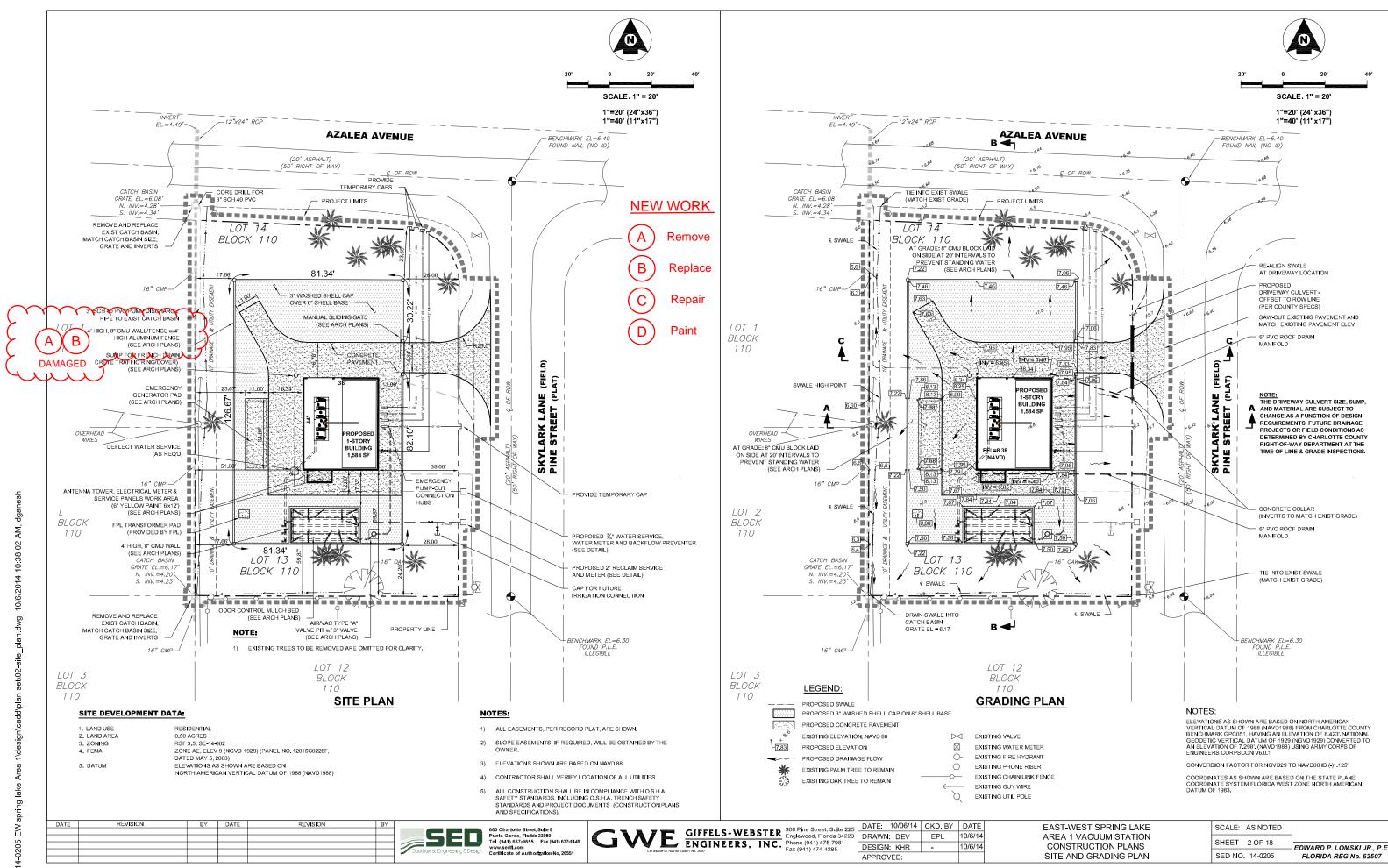
3.3 FINISHING OF GYPSUM BOARD

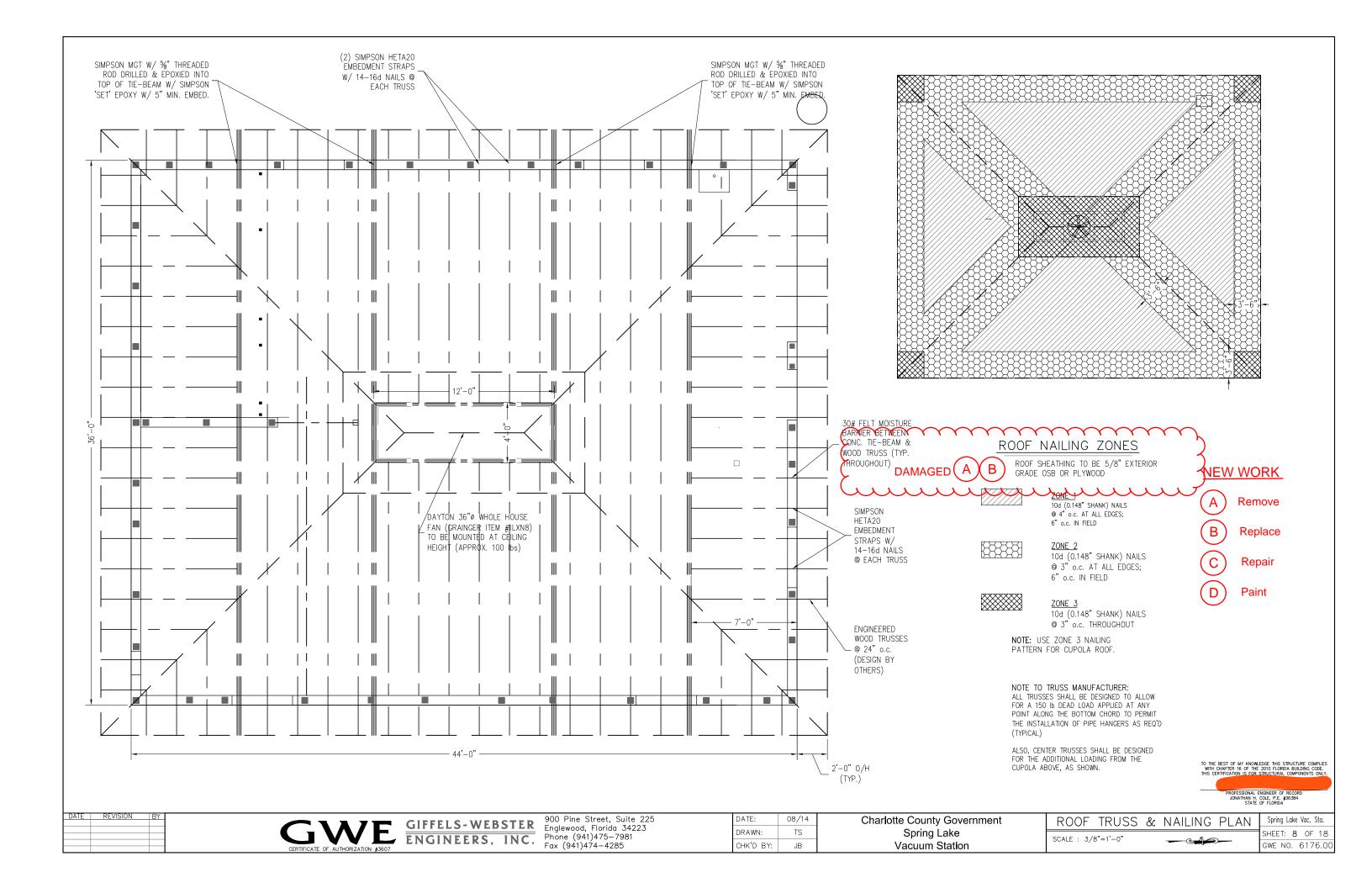
- A. Before proceeding with installation of finishing materials, assure the following:
 - a. Gypsum board is fastened and held close to framing or furring.
 - b. Fastening heads in gypsum board are slightly below surface in dimple formed by driving tool.
- B. Finish joints, edges, corners, and fastener heads in accordance with ASTM C840. Use Level 4 finish for all finished areas open to public view.
 - a. Pre-fill open joints and rounded or beveled edges, if any, using setting-type joint compound.
 - b. Apply joint tape at joints between gypsum boards, except where trim accessories are indicated.
 - c. Finish interior gypsum wallboard by applying the following joint compounds in three (3) coats (not including pre-fill of openings in base), and sand between coats and after last coat.
- C. Finish joints, fasteners, and all openings, including openings around penetrations. After the installation of hanger rods, hanger wires, supports, equipment, conduits, piping and similar work, seal remaining openings and maintain the integrity of the construction.

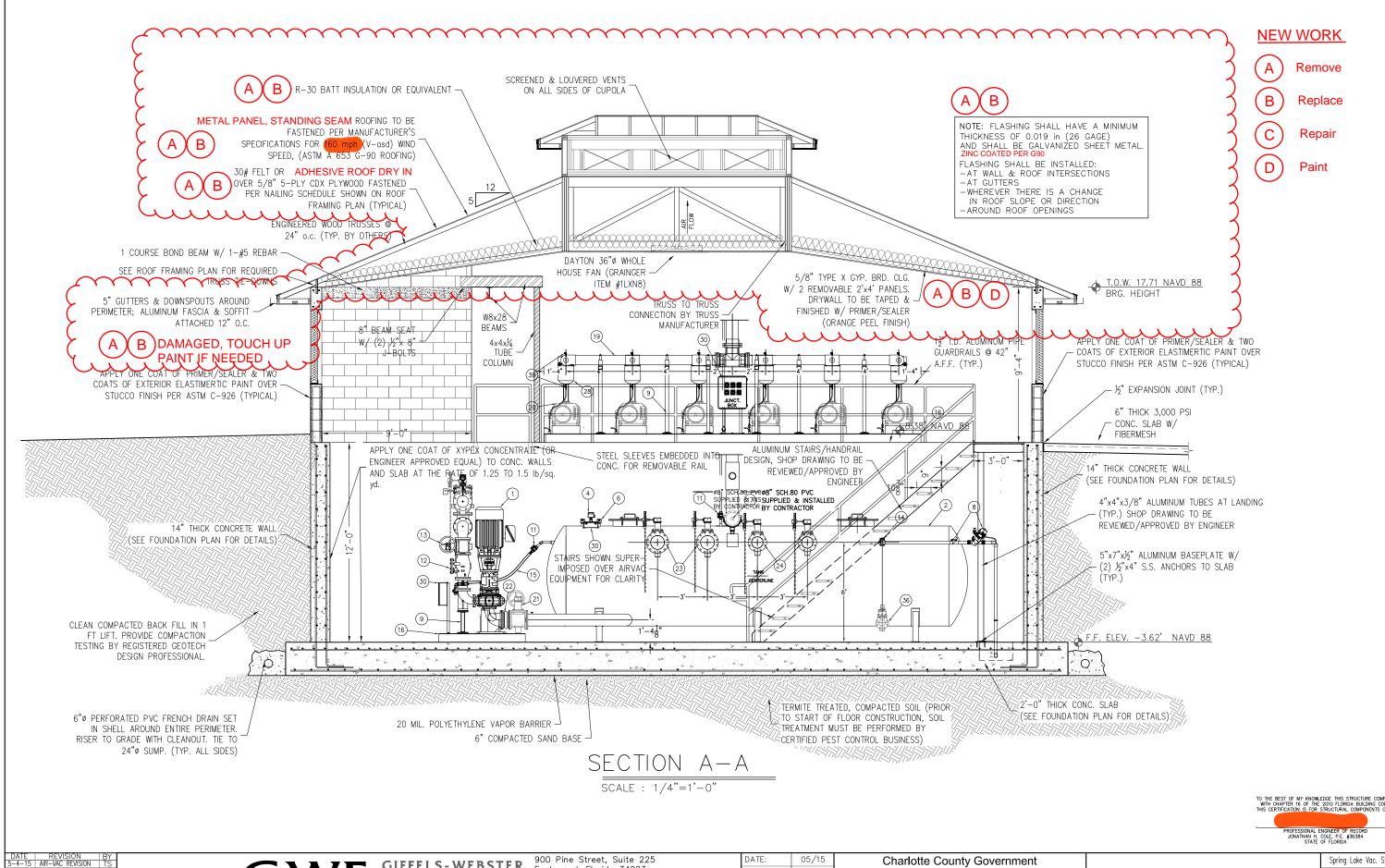
3.4 REPAIRS

- A. After taping and finishing has been completed, and before decoration, repair all damaged and defective work, including nondecorated surfaces.
- B. Patch holes or openings 1/2 inch or less in diameter, or equivalent size, with a setting type finishing compound or patching plaster.
- C. Repair holes or openings over 1/2-inch diameter, or equivalent size, with 5/8-inch-thick gypsum board secured in such a manner as to provide solid substrate equivalent to undamaged surface.
- D. Tape and refinish scratched, abraded or damaged finish surfaces including cracks and joints in non-decorated surface.

---END---







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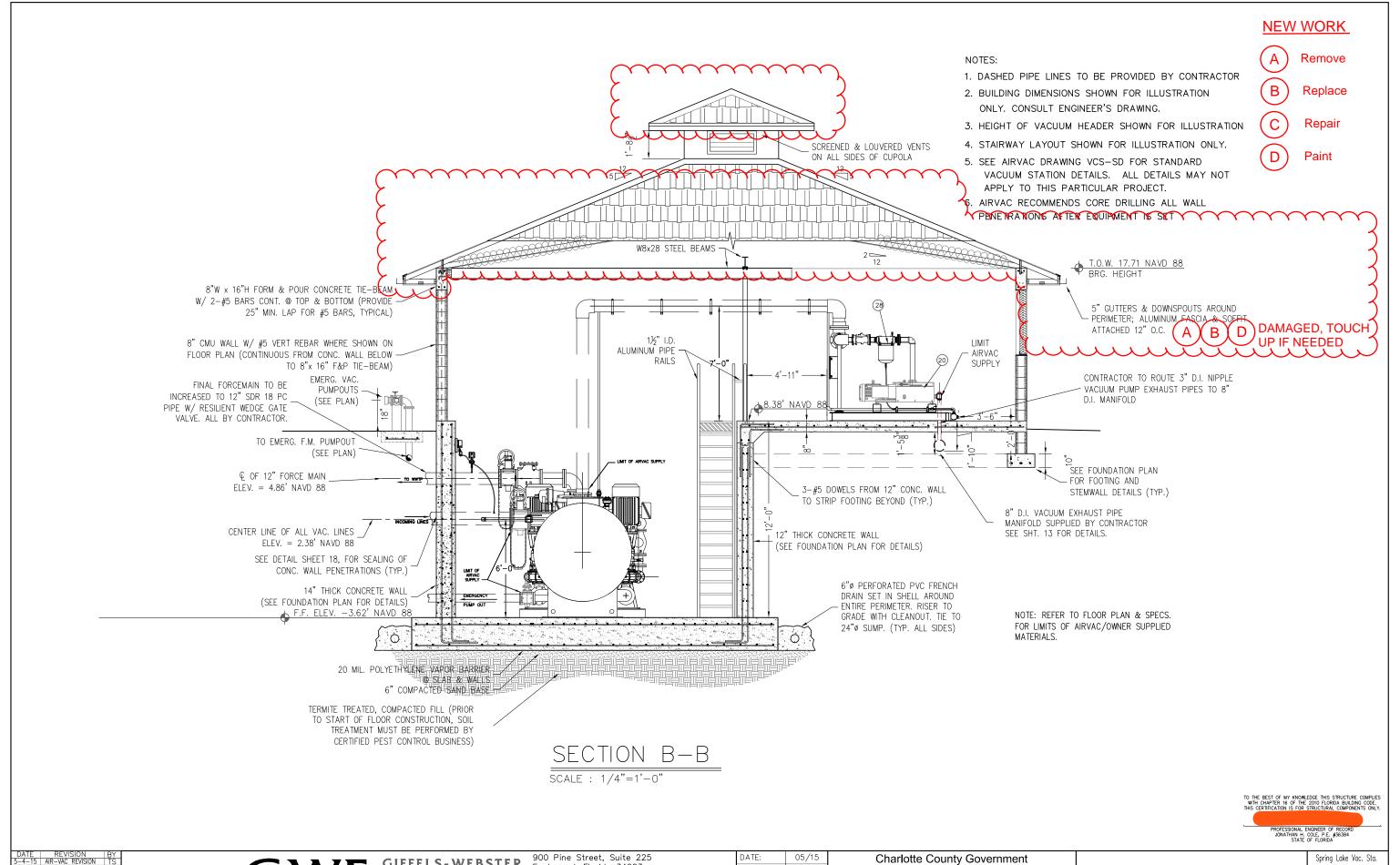
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SECTION

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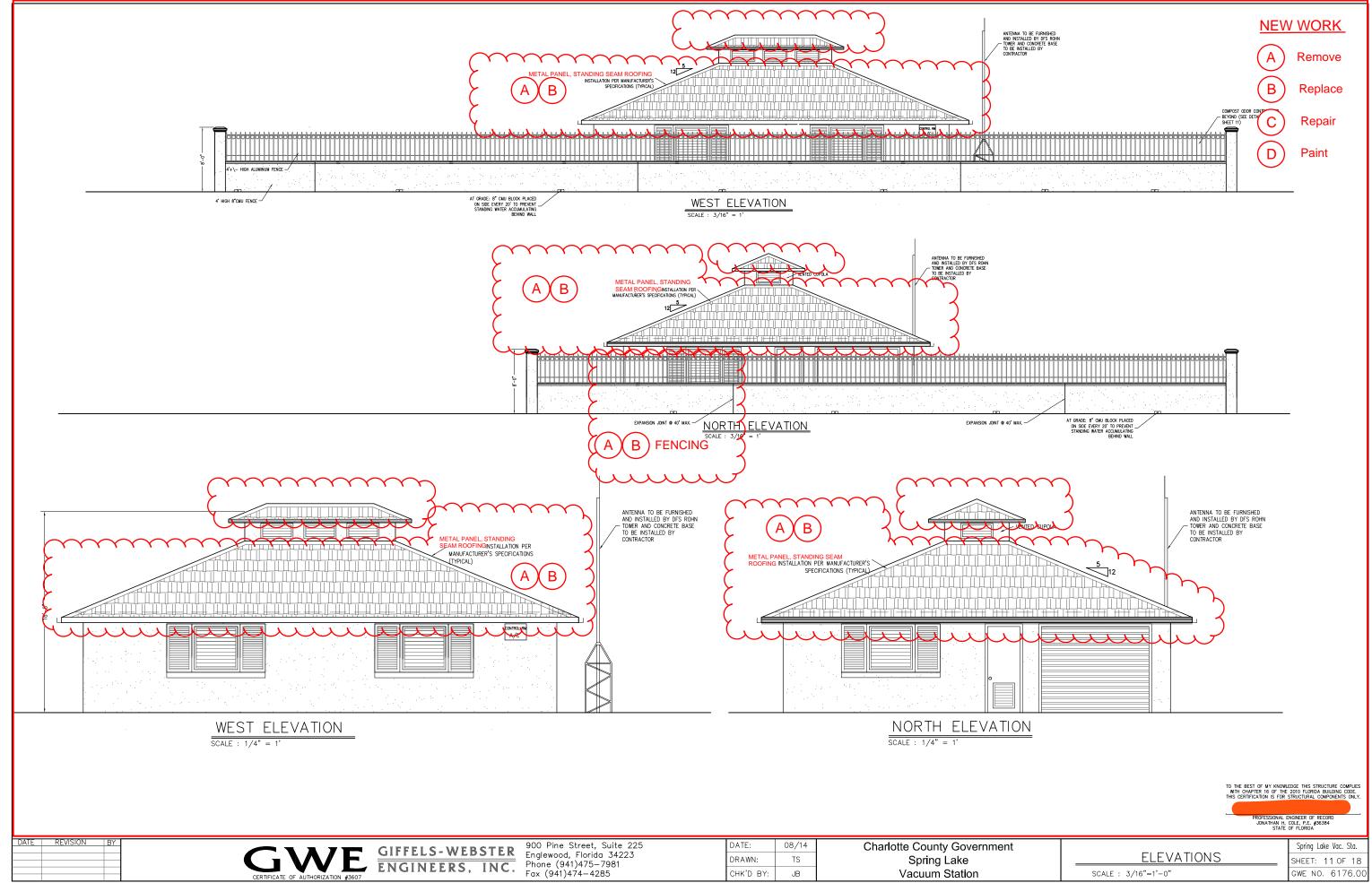
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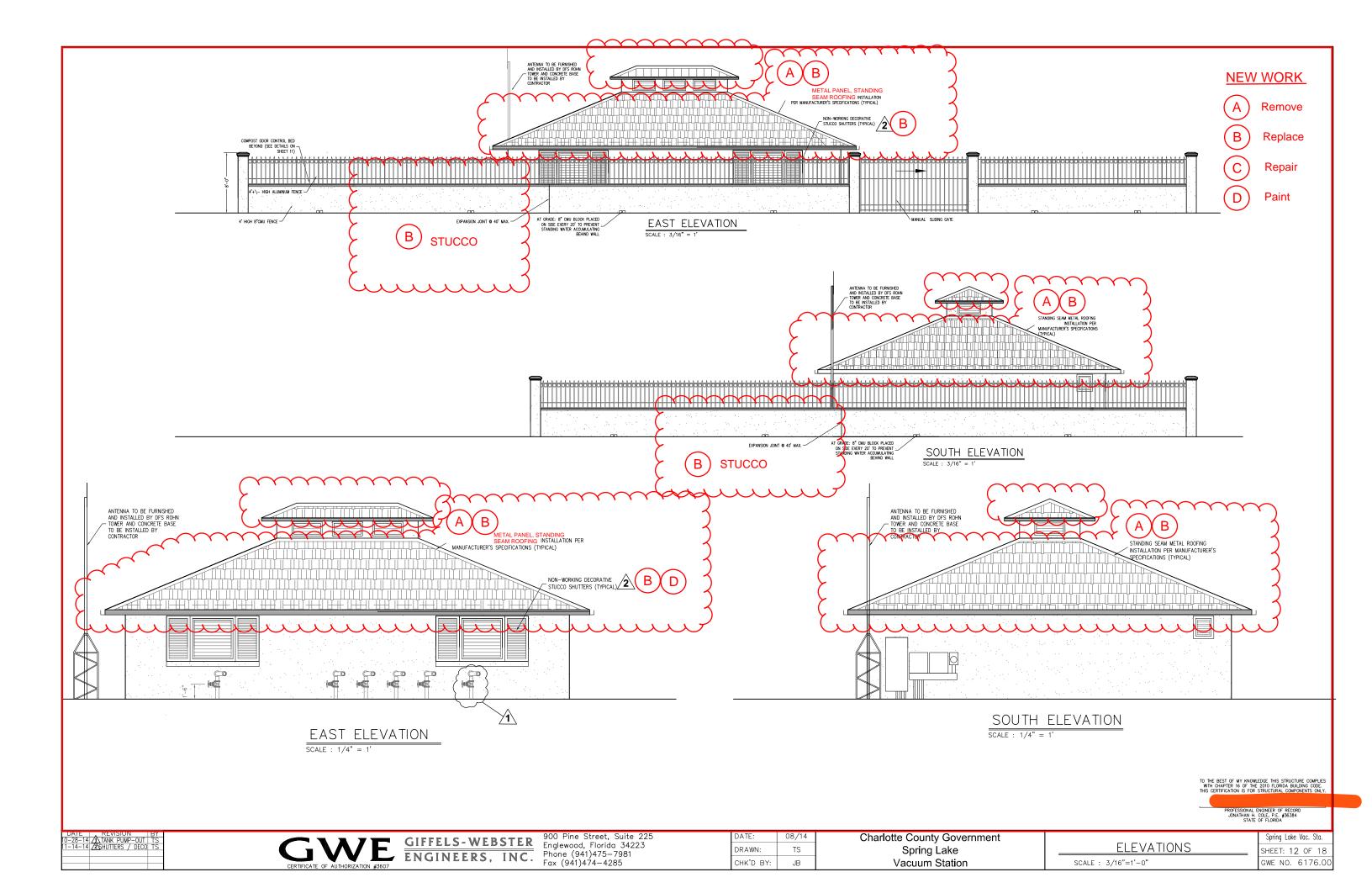
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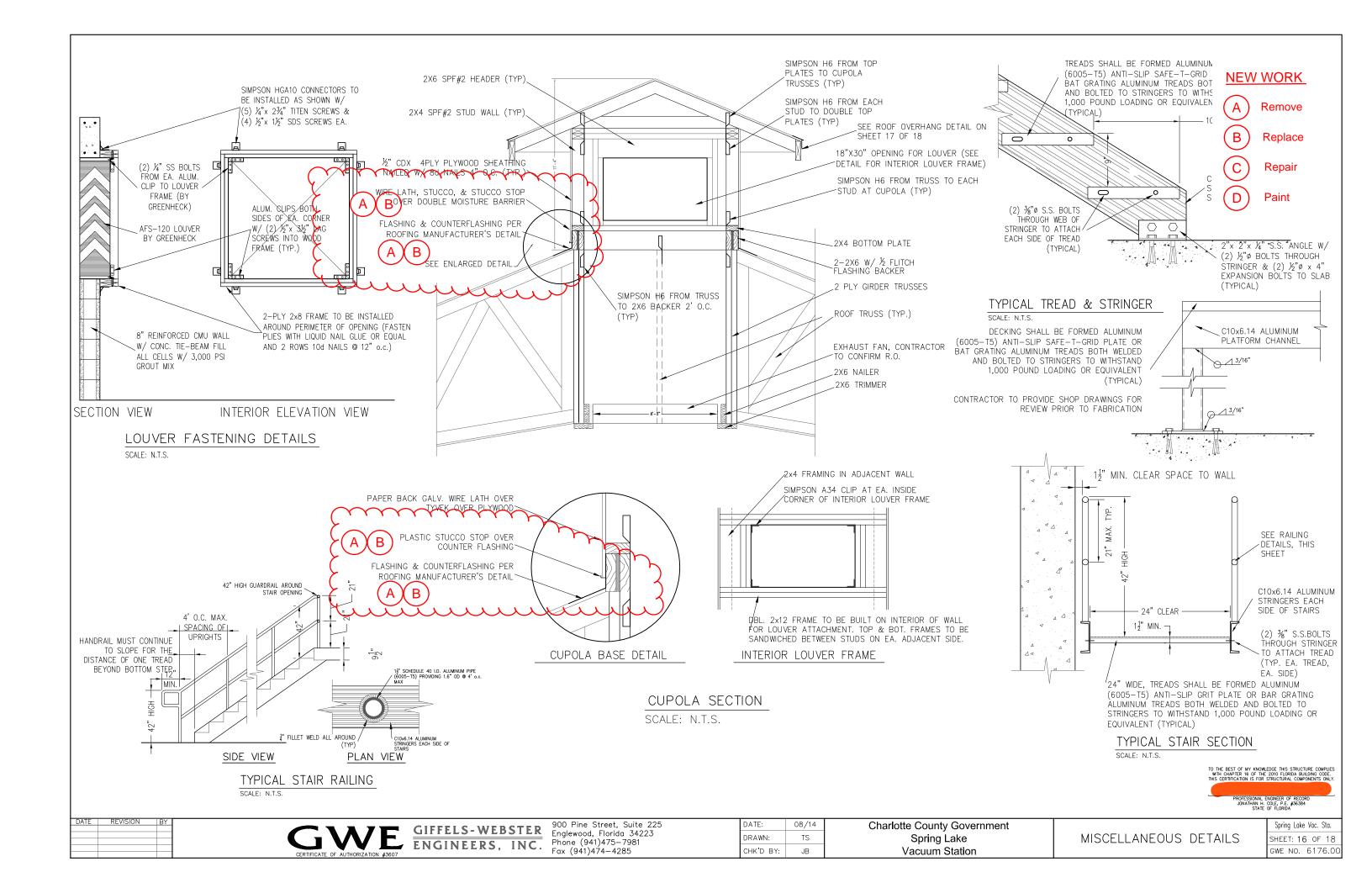
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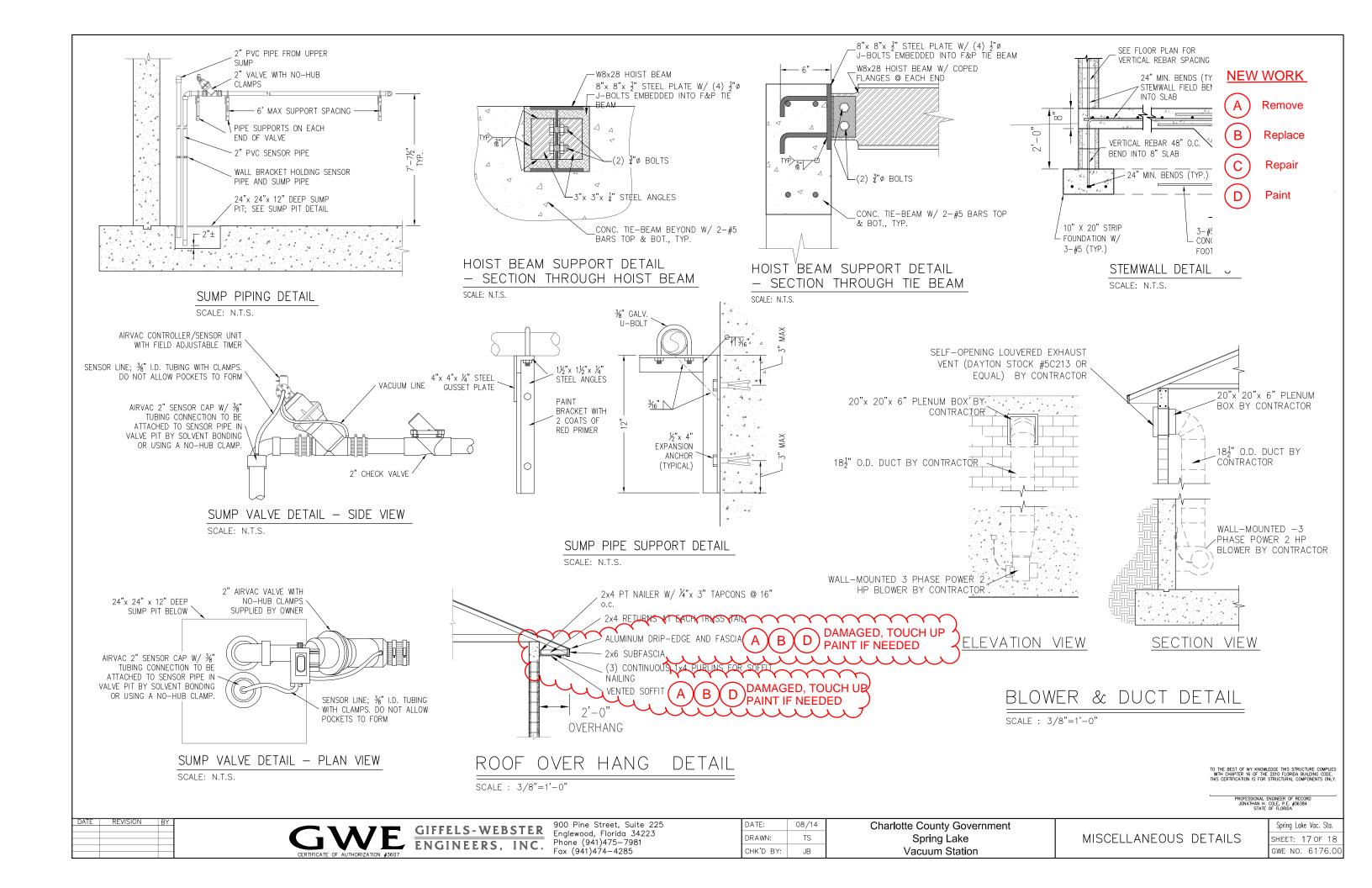


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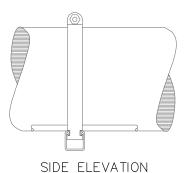
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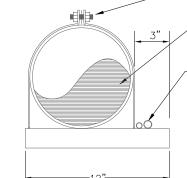






NOTE: UNI-STRUT, CLAMPS, BOLTS, AND NUTS PROVIDED BY AIRVAC; PARTS SHIPPED LOOSE AND INSTALLED BY CONTRACTOR AT SITE.



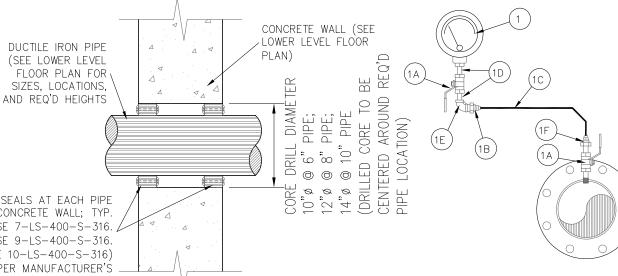


CLAMP SUPPORTS AT 4'-0" O.C. MAX.

8" PVC VACUUM HEADER

CONDUITS- RUN PARELLEL WITH HORIZONTAL SECTIONS OF VACUUM HEADER

> (2) LINK-SEAL MODULAR SEALS AT EACH PIPE . PÉNETRATION THROUGH CONCRETE WALL; TYP. (AT 6" PIPE, USE 7-LS-400-S-316. AT 8" PIPE, USE 9-LS-400-S-316. AT 10" PIPE, USE 10-LS-400-S-316) INSTALL SEALS PER MANUFACTURER'S **SPECIFICATIONS**



CONTRACTOR TO DRILL/TAP INCOMING VACUUM LINES FOR 1/4" PIPE THREADS.

- 0-30"HG VACUUM GAUGE MOUNTED TO TANK (TYP. OF 4)
- (1A) MERIT 1/2" S.S. BALL VALVE
- (1B) 1/2" MPT X 3/8" BARB ADAPTER
- (1C) 3/8" DIA. FLEX TUBING X 20'
- (1D) 1/2" X 1" S.S. NIPPLE
- (1E) 1/2" 90° S.S. ELBOW
- (1F) 1/4" MPT X 3/8" BARB ADAPTER

UNI-STRUT CLAMP DETAIL

GENERAL HOTES:

DESIGN CRITERIA:

Florida Building Code, 2023 8th Edition ASCE $7 - \frac{22}{2}$

1. Wind Velocity = 162 M.P.H. Internal Pressure Coefficient = ± 0.18 (Enclosed Building) Category III Building Exposure B

Component & Cladding loads based on a loaded area of 10 st or less and a wind directionality factor of 0.85 are as follows: VSD

~50		
Zone	1:	-26.2/+13.9
Zone	2:	-58.9/+13.9
Zone	3:	-81.4/+13.9
Zone	4:	-26.2/+24.
Zone	5:	-32.3/+24.1

If a specific component has a tributary area larger than 10 of and requires a reduced component & cladding load, the specifications & dimensions of the product shall be submitted to the Engineer of Record for wind analysis.

2. Live Loads — in accordance with FBC 2004, Table 1607.

Floors, Decks, & Stairs: 100 psf

GENERAL:

DATE REVISION 0-7-14 WIND SPEED

CONSTRUCTION:

- 1. Unless noted otherwise, all wood construction shall meet or exceed requirements of Chapter 23, FBC. Table 2304.9.1 shall be used as a minimum for all nailing schedules. Roof, wall, & floor diaphragms shall be as follows unless noted otherwise:
- -Unblocked @ roof: 4" @ edges/ 6" @ intermediate supports
- -Min. 5/8" CDX 5-ply plywood shall be used for roof diaphragm w/ 10d ringshank nails (0.131" ϕ shank)
- Pre-manufactured straps, hangers, and clips shall be installed according to manufacturer's recommendations as required to supply desired performance.
- Due to the nature of this construction the Engineer of Record shall be given the opportunity to re—evaluate these plans and specifications as additional information becomes available or unforeseen circumstances arise.

SOIL COMPACTION:

🎪 soil shall be removed to a minimum depth of one foot over the entire building area and five feet beyond building lines. These areas should be cleared and grubbed of any vegetation. The exposed surface should than be compacted to a depth of (1) foot pelow the cleared and grubbed surface to a minimum 98% of the standard or modified proctor density as determined in accordance with ASTM D-698. After densification of natural soils, fill material to finished grade shall be placed with a maximum lift of 6" and comported to a minimum 93% of the standard or modified process or modified process of the standard or modified

SUBMITTALS:

- All construction shall meet requirements of all Local and State Building Codes.
- 2. Engineer of Record shall be notified of any deviation to this plan during construction.
- 3. Contractor shall retain the services of a certified material testing laboratory to conduct all required concrete & soils compaction testing. Results of all tests shall be submitted to the Engineer of Record for review.

MATERIALS:

- Contractor shall submit cut sheets and erection drawings for all manufactured structural components (including concrete piles) to Engineer of Record for review
- 2. Contractor shall verify all dimensions and conditions in the field as work progresses. All discrepancies and deviations from the plans shall be reported to the Engineer of Record.
- 3. All structural changes shall be signed & sealed by the Engineer of Record & re-submitted to the Building Department

PREFABRICATED WOOD TRUSSES:
Truss components shall be designed by others to withstand the wind loads for Components & Cladding as determined by ASCE 7—10, Chapter 30. Complete designs of each truss (profiles) and the truss layout plan shall be submitted to the Engineer of Record for review. Shop drawings shall bear the signature & seal of the Florida Registered Professional Engineer responsible for the design of the trusses.

Truss reactions & uplift on the host structure shall be determined based on appropriate live & dead loads and the Main Wind Force Resistance System criteria of ASCE 7-10. Net uplift forces shall be determined using the actual available dead load. ASCE 7-10 method of wind analysis shall be noted on the truss designs and the layout.

LINK-SEAL DETAIL

MATERIALS (Cont.):

Provide mix designed by a recognized testing laboratory to achieve a strength at 28 days as listed below with a plastic and workable

5000 psi for all below-grade concrete pit walls and pit slabs 3000 psi or stronger is acceptable for all other structural omponents (slabs, monolithic footings, tie-beams, etc.)

Materials used to produce concrete and admixtures for concrete shall comply with ACI 318. Concrete shall comply with all requirements of ASTM C 150, ASTM C 595, or ASTM C 845.
Concrete shall comply with all the requirements of ASTM Standard 94-74A for measuring, mixing, transporting, etc. Concrete ckets shall be time stamped when concrete is batched, the haximum time allowed from the time the water is added until it deposited in its final position shall not exceed one and one half $(\frac{1}{2})$ hours. If for any reason there is a longer delay than that táted above, the cóncrete shall be discarded. It shall be the responsibility of the testing lab to notify the owner's representative and the contractor of any non-compliance with the above. ond the contractor of any non-compliance with the above. Some testing to be paid for by the contractor. Admixtures may be used only with the approval of the engineer. During hot yeather, proper attention shall be given to the ingredients, production methods, handling, placing, protection and curing to prevent excessive concrete temperatures or water evaporation that may impair required strength or serviceability of the member or structure as per 1906.5 and 1906.7 of the Florida Building Code.

MASONRY:

All Masonry work shall be done in accordance with "Building Code Requirements for Masonry Structures (ACI 530)" & "Specifications for Masonry Structures (ACI 530.1)"

Concrete masonry units shall be Grade "N" Hollow Load bearing Units, conforming to ASTM C—90 with a minimum compressive strength (f'm) of 1500 psi.

- 2. Mortar: Type M or S and shall conform to ASTM C-270.
- 3. Grout or pea—gravel concrete with an ultimate compressive strength of 3000 psi at 28 days, except for those locations as marked or noted on the structural drawings. Corefill mix shall conform to ASTM C-476.
- Air-Entraining mixtures or hydrated lime containing air—entraining mixtures are prohibited because such admixtures will reduce the shear, tensile and compressive strength of the masonry. Calcium chloride is not permitted in mortar or grout in which reinforcement, metal ties, or anchors are embedded because

TYPICAL VACUUM LINE GAUGE PIPING DETAIL

MATERIALS (Cont.):

METAL:

1. All steel plates, bolts, washers, nuts, fasteners, hangers,

"" WAY" (Salt air exposure) galvaniz straps and clips shall be "Z-MAX" (Salt air exposure) galvanized or stainless steel - (Simpson Products or equal).

- 2. Steel plates and rolled steel members shall conform to ASTM A36 unless noted otherwise. Bolts, nuts and washers shall conform to ASTM A307 unless noted otherwise.
- Lag bolts, nails, screws, hangers, straps, and clips shall be fabricated from appropriate materials and H.D.G. (Hot-dipped Galvanized) to meet conditions shown.
- All handrails, guardrails and steel framing components (not including walking surfaces) shall be painted with rust—proof primer and shall be finished with safety yellow paint.

<u>GLUE:</u> Glue used in the field for assembling wood products shall be waterproof exterior grade equal to or better than Liquid Nails.

EXTERIOR DOORS & LOUVERS:

All exterior windows, louvers & doors are required to be tested in accordance with ANSI/AMMA/NWWDA 101/IS2 standard and bear an AMMA or WDMA label identifying the manufacturer, performance characteristics, and approved product testing entity.

REINFORCING STEEL: Reinforcing shall be ASTM A615 Grade 60, free from oil, scale and rust, and placed in accordance with the typical bending diagram and placing details and ACI 318 Standards and Specifications Reinforcement shall be deformed reinforcement, except that plain reinforcement shall be permitted for spirals or tendons.

PROFESSIONAL ENGINEER OF RECORD JONATHAN H. COLE, P.E. #36384 STATE OF FLORIDA

GWE GIFFELS-WEBSTER ENGINEERS, INC.

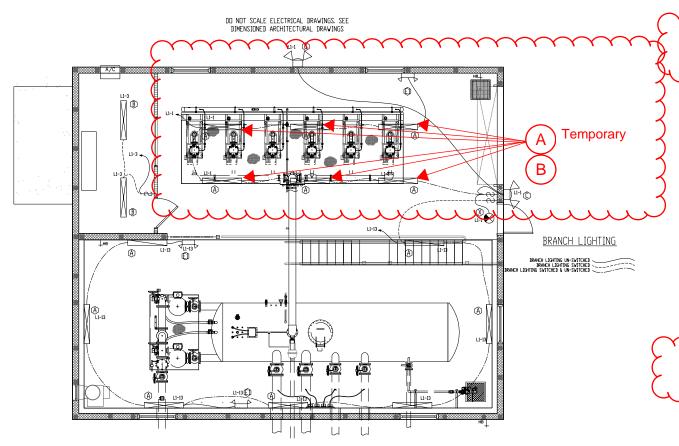
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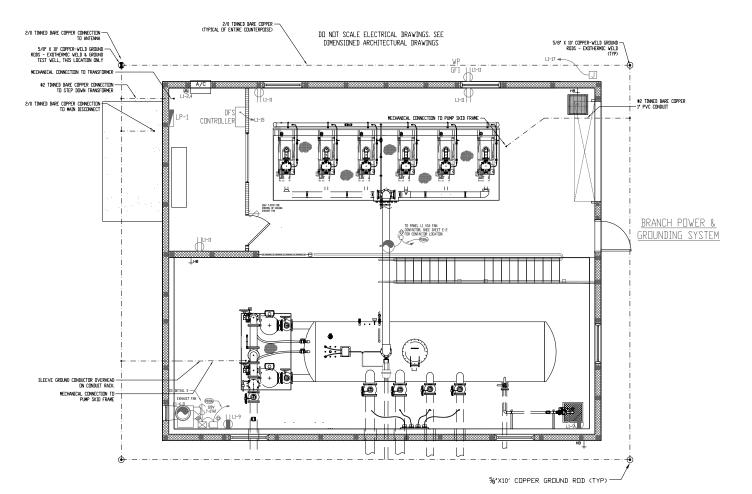
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Charlotte County Government Spring Lake Vacuum Station

MISCELLANEOUS DETAILS

Spring Lake Vac. Sta. SHEET: 18 OF 18 GWE NO. 6176.00





LIGHTING FIXTURE SCHEDULE WILLIAMS 92-4-232-A-WET/2-SSLATCH-EB2-UNV (2) F32T8 LAMPS В 1 X 4 SURFACE MOUNT GASKETED VP FLUORESCENT LUMINAIRE VPF84-2F32T8-120-CP-GRY 1 4 SURFACE MOUNT ENCLOSED FLAGRESCENT PHILIPS LP PHILIPS LP16T DUAL HEAD LED WITH MOTION SENSOR WILLIAMS EMER/CP-WHT 2 - 5.4WATT INC (INCLUDED) DUAL HEAD EMERGENCY LIGHT
CONNECT TO UN-SWITCHED LIGHTING CIRCUIT IN THAT AREA WILLIAMS EXIT-R-EM-WHT EXIT LIGHT UNIVARSAL MOUNT CONNECT TO UN-SWITCHED LIGHTING CIRCUIT IN THAT AREA

NEW WORK

Remove

В Replace

C Repair

D **Paint**

BRANCH LIGHTING AND POWER GENERAL NOTES:

- 1. ALL EXPOSED CONDUIT SHALL BE RIGID ALUMINUM, BELOW GRADE CONDUIT SHALL BE
- 2. MC CABLE PERMISSIBLE FOR CONCEALED FIXTURE CONNECTION ONLY
- 3. ALL POWER CONDUCTORS SHALL BE THHN/THWN-2 COPPER
- 4. MINIMUM BRANCH POWER CONDUCTOR #12
- 5. MINIMUM INDOOR BRANCH LIGHTING AND RECEPTACLE CONDUIT 1/2
- 7. LIGHTING SWITCHES SHALL BE 20A SPECIFICATION GRADE (LEVITON 1221)
- ∖8. CEILING FLUORESCENT TO BE FASTENED TO DRYWALL WITH ¾″ X 3″ EXPANDING TOGGLE BOLTS

AS WALK MUNTED ELVIRESCENT TO BE PASTENED WITHY AS STAINESS STEENE ANCHORS.

- 10. EXIT & EMERGENCY LIGHTING TO BE CONNECTED TO THE UN-SWITCHED LIGHTING CIRCUIT IN THE AREA WHERE INSTALLED
- 11. VERIFY LOCATION AND CIRCUIT REQUIREMENTS FOR WALL MOUNTED ELECTRICAL ROOM AC
- 12. SEE SHEET E-3 FOR NOTED EQUIPMENT SCHEDULE
- 13. TAP-CON TYPE ANCHORS WILL NOT BE PERMITTED FOR ATTACHING EQUIPMENT TO EXTERIOR WALLS.
- 14. CUPOLA EXHAUST FAN CONTACTOR TO BE LOCATED ADJACENT TO PANEL L1.

PANELBOARD DESIGNATION LP1

125A MAIN BREAKER PANEL, 120/240V 3P 4W N-1 SURFACE

SERVICE ORIGINATION POINT	PANEL MDP	VIA T-1								
	CB	LDAD	CKT	PHASE	LOAD (VA)		CKT	LOAD	CB	
	SIZE	(VA)	#	' A'	"B"	"C"	#	(VA)	SIZE	
INDOOR LIGHTING	20	1290	1	4170			2	2880	30	A/C UNIT
EXTERIOR LIGHTING	20	500	3		3380		4	2880		
CUPOLA FAN	20	1200	5			2400	6	1200	20	EXHAUST FAN
		1200	7	2400			8	1200		
BRANCH RECEPTACLE	20	1500	9		4700		10	3200	60	GENERATOR PANEL "GEN-1"
BRANCH RECEPTACLE	20	720	11			3920	12	3200		
INDOOR LIGHTING	20	1200	13	1920			14	720	20	BRANCH RECEPTACLE
DFS CONTROL PANEL	20	1200	15		1200		16			SPACE
SUMP PUMP J-BOX	20	1500	17			3000	18	1500	20	SPARE
			19	0			20			
			21		0	l .	22			
			23			0	24			
			25	0			26			
			27		0		28			
			29		TOTALO	1 0	30			
				0.400.0	TOTALS	00000				
CONNECTED ANDS	75.00			8490.0	9280.0	9320.0				
CONNECTED AMPS=	75.20			70.75	77.33	77.67				
CONNECTED KVA=	27.09									
VIDLTAG	E 208Y/120		П мат	NS RATING	125	TAMP	XXX	Īм / D	#1	FEEDER CONDUCTORS
SURFAC		1		ER RATING	125	AMP		MLD	#1	NEUTRAL CONDUCTORS
FLUS		†		T CURRENT	10K	AIC		luca	#6	GROUNDING CONDUCTOR
1 LU3	"	1	i HUL	CONNENT	TOIL	Tuto			H-110	Tayanana campociak

CONSTRUCTION DRAWINGS



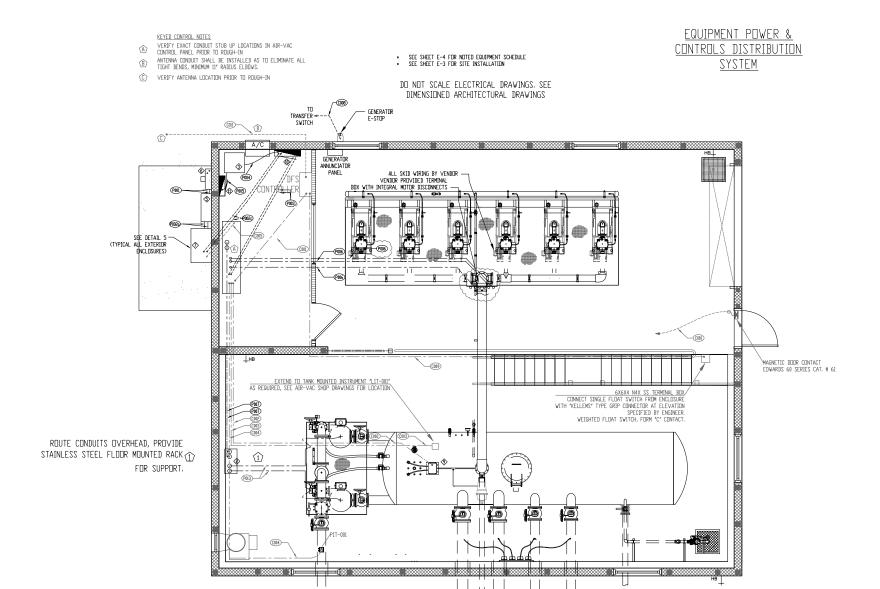
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	9/18/14	ELECTRICAL/CONTROL REVISIONS	MG
l	5/12/15	AIR-VAC REQUIRED REVISIONS	MG
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DATE: 09/14

Charlotte County Government Spring Lake Vacuum Station

Spring Lake Vac. Sta. SHEET: E1 OF E7 GWE NO. 6176.00



SER	VICE	DISTRI	BUTION	AND	EQU:	IPMENT	CON	NECTI	JΝ	GENERAL	NOTES:
1.	ALL	ABOVE	GRADE	CDN:	DUIT	SHALL	BE	RIGID	ΑL	UMINUM	

- 2. ALL BELOW GRADE CONDUIT SHALL BE PVC-80
- 3. ALL POWER CONDUCTORS SHALL BE THHN/THWN-2 COPPER UNLESS OTHERWISE NOTED
- 4. ALL EXTERIOR FASTENERS TO BE STAINLESS STEEL
- 5. ALL EXTERIOR MOUNTING CHANNEL SHALL BE ALUMINUM
- 6. ALL BELOW GRADE GROUNDING CONNECTIONS TO BE EXOTHERMIC WELDS
- 7. MINIMUM BRANCH POWER CONDUCTOR #12, MINIMUM DISCRETE CONTROL CONDUCTOR #14
- 8. ANALOG SIGNAL CABLE #16TSP BELDEN 8719 (OR EQUAL)
- 9. MINIMUM EQUIPMENT CONNECTION CONDUIT 3/4"
- 10. FLEXIBLE CONDUIT SHALL BE LIQUID-TITE FLEXIBLE METAL TYPE-EF.

						CONDUIT AND CONDUCTOR SCHEDULE				
CONDU	CONDUIT CONDUCTOR			DESCRIPTION						
DESIGNATION	DESIGNATION SIZE TYPE QTY AWG INSULATION TYPE VOLTS		FROM	TO	NOTES					
P-001	(2) 3*	PVC-80 AL	3-350; 1-250N	THHN	600	UTILITY TRANSFORMER	METER / MAIN DISCONNECT			
P-002a	(2) 3*	PVC-80 AL	3-350; 1-250N; 1-2/0 GND.	THHN	600	MAIN DISCONNECT	TRANSFER SWITCH			
P-002b	(2) 3*	PVC-80 AL	3-350; 1-250N; 1-2/0 GN.	THHN	600	GENERATOR	TRANSFER SWITCH			
P-002c	(2) 3*	PVC-80 AL	3-350; 1-250; 1-2/0 GND	THHN	600	TRANSFER SWITCH	PANEL MDP			
P-003	(2) 3*	AL	3-3/0; 1-2/0 N; 1-#3 GND	THHN	600	PANEL - MDP	MAIN PUMP CONTROL PANEL	VERIFY CONTROL PANEL TERMINATION POINT PRIOR TO ROUGH-IN		
P-004	1'	FMC	3-#6; 1-#8 GND.	THHN	600	PANEL - MDP	TRANSFORMER T-1			
P-005	1.5*	FMC	3-#1; 1-#1N 1-#6 GND	THHN	600	TRANSFORMER T-1	PANEL L1			
P-006	(2) 1'	AL	6-#10; 1-#10 GND	THHN	600	MAIN PUMP CONTROL PANEL	VACUUM PUMP JUNCTION BOX	ONE CONDUIT FOR TWO PUMPS, DO NOT EXCEED 80% DERATING FACTOR.		
		1			~~~		~~~~			
P-007	(2) 1.5 ′	AL	3-#1; 4-#14; 1-#6 GND	THHN	600	MAIN PUMP CONTROL PANEL	SEWAGE PUMP DISCONNECT ENCLOSURE	DNE CONDUIT FOR EACH PUMP, #14 CONDUCTORS - MOISTURE SENSOR & THERMAL SENSOR		
P-008a	.75*	AL	3-#12; 1-#12 GND.	THHN	600	PANEL - L1	CUPOLA EXHAUST FAN	ROUTE FEEDERS THROUGH CONTACTOR		
P-008b	.75*	AL	3-#12; 1-#12 GND.	THHN	600	PANEL - L1	LOWER LEVEL EXHAUST FAN	ROUTE FEEDERS THROUGH CONTACTOR		
P-009	1'	PVC-80 AL	2-#6; 1-#8 N; 1-#8 GND	THHN	600	PANEL L1	GENERATOR ENCLOSURE LOAD CENTER	CONFIRM REQUIREMENTS WITH GENERATOR MANUFACTURER		
P-010	.75 *	AL	1-#12; 1-#12 N; 1-#12 GND	THHN	600	PANEL - L1	BRANCH LOADS	SEE SHEET E-1 AND E-2 FOR LOCATIONS		
P-011	P-011 .75' AL 2-#10; 1-#10 GND THHN 600		PANEL - L1	WALL AC	VERIFY LOCATION OF UNIT PRIOR TO ROUGH-IN					
P-012	.75 *	AL	1-#12; 1-#12 N; 1-#12 GND			PANEL - L1	BRANCH LIGHTING	HC CABLE ALLOWED FOR BRANCH LIGHTING CONCEALED VHIPS ONLY		
P-013	(2) 1.5 '	AL	3-#1; 4-#14; 1-#6 GND	THHN	600	SEWAGE PUMP DISCONNECT ENCLOSURE	SEWAGE PUMP			
P-014	.75 *	AL	1-#12; 1-#12 N; 1-#12 GND	THHN	600	PANEL - L1	DFS CONTROLLER			
C-001	.75 *	AL	1-CAT-5e			MAIN PUMP CONTROL PANEL	DFS CONTROLLER	AIRVAC/PLC INTERFACE CABLE		
C-005	.75 *	AL	9-#14; 1-#14 GND.	THHN	600	MAIN PUMP CONTROL PANEL	VACUUM TANK JUNCTION BOX	DUAL GROUNDING CONDUCTORS, ONE FOR ISOLATION VALVE POWER, ONE FOR PROBES		
C-003	.75 *	AL	1-#16TSP		600	MAIN PUMP CONTROL PANEL	LIT-001 VACUUM TANK LEVEL INSTRUMENTS	LIT-001		
C-004	1'	AL	1-#16TSP	THHN	600	MAIN PUMP CONTROL PANEL	PIT-001 FORCE MAIN PRESSURE TRANSMITTER			
C-005	.75 *	AL	7-#14; 1-#12 GND.	THHN	600	MAIN PUMP CONTROL PANEL	AUTOMATIC TRANSFER SWITCH			
C-006	1'	PVC-80 AL	8-#14; 1-#18TSP; 1-#12 GND.	THHN	600	GENERATOR CONTROL PANEL	GENERATOR ANNUNCIATOR	ANALOG AND DISCRETE SIGNAL, CONFIRM CABLE REQUIREMENT WITH GENERATOR PROVIDER		
C-007	1'	PVC-80 AL	8-#14; 1-#12 GND.	THHN	600	GENERATOR CONTROL PANEL	TRANSFER SWITCH	DISCRETE SIGNAL, CONFIRM CABLE REQUIREMENT VITH GENERATOR PROVIDER		
C-008	.75 *	PVC-80 AL	2-#14; 1-#12 GND.	THHN	600	GENERATOR CONTROL PANEL	E-STOP SWITCH			
C-009	.75 *	AL	2-#14; 1-#12 GND.	THHN	600	DFS CONTROLLER	LOWER LEVEL FLOAT SWITCH 'LEVEL INDICATOR'	CONFIRM FLOAT SWITCH ELEVATION WITH ENGINEER PRIOR TO INSTALLATION		
C-010	.5*	AL	2-#14	THHN	600	DFS CONTROLLER	DOOR INTRUSION SWITCH	L-V N-D DOOR CONTACT FROM RTU SWITCH RATED 30V, 250nA		
C-011	1.25*	PVC-80 AL	PULL STRING			DFS CONTROLLER	ANTENNA LOCATION	USE LONG RADIUS SVEEPS, 11' RADIUS MINIMUM		
G-001	1.25*	PVC-80	1-2/0 GND.	BARE COPPER	NA	MAIN SERVICE GROUNDING COUNTERPOISE	MAIN DISCONNECT			
G-002	.75*	PVC-80	1-#6 GND.	BARE COPPER	NA	MAIN SERVICE GROUNDING COUNTERPOISE	TRANSFORMER T-1			

CUNDITE AND CONDUCTOR SCHEDULE

PROVIDE FOR INFORMATION

CONSTRUCTION DRAWINGS



DATE	REVISION	BY
9/18/14	ELECTRICAL/CONTROL REVISIONS	MG
5/12/15	AIR-VAC REQUIRED REVISIONS	MG



ELECTRICAL SPECIFICATIONS

VACUUM TANK J-BOX

CONTROL INTERCONNECT SCHEMATIC

CONDUIT (C002)

CONDUIT (C003)

CONDUIT (C004)

CONDUIT (COO6) GENERATOR CONTROL PANEL

NOTE-1 NEEDS TO BE CONFIRMED WITH GENERATOR SIBMITTAL SHEETS

AIR-VAC CONTROL PANEL

The scope of the work covered herein consists of furnishing all labor, materials, necessary equipment and services to complete the Electrical Work and related work in full accondance as indicated on the drawings, as specified herein or

both and subject to the terms and conditions of the Contract. All items noted herein, shown by the electrical plans, or reasonably to be interpreted from the plans necessary to complete the electrical system shall be provided and installed under the work of this Section whether some are specifically mentioned herein or not.

CODES, RULES, PERMITS, FEES

The Contractor is generally responsible to insure all work, both old and new, complies with the NEC and any applicable local and state codes and ordinances.

DRAWINGS

Drawings are diagrammatic and indicate the general arrangement of systems and work included in the contract. Drawings ar not to be scaled. The Architectural drawings and details shall be examined for exact location of fixtures and equipment. Any conflict shall be immediately brought to the attention of the Engineer before proceeding with

LI CONTRACTOR CONTRACT The contractor shall submit six (6) copies for approval of detailed shop drawings of all equipment and all material required to complete the project to the Engineer

Materials or products specified herein and/or indicated on drawings by trade name, manufacturer's name or catalog number shall be provided as specified.

COOPERATION WITH OTHER TRADES

The contractor shall give full cooperation to other trades and shall furnish in writing to the Contractor, with copies the Engineer, any information necessary to permit the work of all trades to be installed satisfactorily and with the least possible interference or delay. Coordinate all conduit runs and equipment with other trades. Verify nameplate electrications data of actual equipment furnished by others before beginning

CUTTING, PATCHING, AND FINISHING

The Contractor shall do all cutting, drilling, etc. required for work under this section of the specifications, inside and outside the building, including preparing of finished surfaces, all required shoring and bracing, and all protection for safety of persons and property

EXCAVATING AND BACK FILLING

The contractor shall do all trench and pit excavating and backfilling required for work under this section of the specifications, inside and outside the building, including repairing of finished surfaces, all required shoring, bracing, pumping, and all protection for safety of persons and

MATERIAL AND WORKMANSHIP

All materials and apparatus required for the work shall be new unless indicated otherwise on the plans.

Contractor shall provide and install all electrical as shown, verifying all mounting heights and exact locations of all wall-mounted electrical devices with architect prior to rough-in.

Connections and junction boxes to equipment are diagrammatic. Verify exact location of connection to specific equipment and

PANELBOARDS

Panels shall be as manufactured by Square D or equal of equivalent of sizes, ratings, and requirements shown on the plans. 480v Panels shall be of dead front construction . A bussing shall be copper. Existing panels may be reused if good condition.

Minimum width of 480v panels shall be 20". 240v Panels shall be of dead front construction . All bussing shall be copper. Existing panels may be reused if Minimum width of 240v panels shall be 14".

New circuit breakers shall be 20A minimum. Multi-pole breakers shall have a single handle to trip all poles at ond AIC rating of breakers shall match AIC rating of panel. A laminated black plastic with white lettering plastic nameplate with the identification number as shown on the pr schedule shall be mounted on the outside of the door with sheet metal screws. Nameplate size shall be 3'' wide \times 1-1/2 high with 1/2" high engraving. Provide a completed circuit directory, typed and mounted in a clear plastic sleeve, on interior of the panel door.

10. GROUNDING

Provide a complete grounding network for the entire electrical system to comply with NEC requirements as indicated on drawings. All conduits shall have a ground wire installed. Conduit shall not

Bond service entrance ground to building steel, metal water mains, main electrodes, etc.

DISCONNECT SWITCHES

Equipment disconnect switches shall be Square D, G.E., ITE or equivalent heavy duty of the type and ratings shown on the plans. Fuses shall be provided of the appropriate type and rating for the equipment to be served.

MISCELLANEOUS EQUIPMENT

- Switches All general use lighting (SPST toggle with or without pilot) switches to be rated 20A., 120-277V. as manufactured by Leviton, Lutron, P & S, or equivalent. Coordinate color with Owner/Architect.
- Receptacles All general use duplex receptacles to be rated 20A., 120V as manufactured by Leviton, Lutron, P & S, or equivalent. Coordinate color with Owner/Engineer.
- Power/lighting circuits All power/lighting circuits 100A or less shall be as indicated on the wire and conduit schedule. Other circuits shall be as shown on the plans.
- Homeruns All homeruns shall be a minimum of 3/4" conduit w/maximum 40% fill.
- Conductors All conductors shall be rated 600V, copper, type THW, THHN/THWN, XHHW. Wire/conduit sizing/fill is based upon type THW conductors, conductors of #12 AWG and larger shall be stranded.
- Timers A Tork #T920L shall be used for lighting control. Multiple units may be required for all controlled circuits shown on the plans.
- Photo Control A Tork #2100 shall be mounted where shown on the drawings.
- Lighting fixtures Lighting fixtures shall be as indicated on the fixture schedule or approved equals.

Exposed interior and exterior locations shall be aluminum

Aluminum conduit in contact with concrete or earth shall have two coats of bitumastic to a point 6" above finished grade or concrete slab Flexible connection to equipment shall be with liquid-tite flexible metal condu Liquid-tite flexible metal conduit sittings shall have insulated throats.

Type M/C cable shall be permitted for lighting branch wiring only where concealed above hard ceiling & installation shall meet NEC-2008 Conduit entrance into enclosures shall be made by conduit hubs in order maintain the NEMA integrity of the enclosure.

Sizes indicated are minimums, larger sizes may be used to facilitate wire pulls, etc.

14. EQUIPMENT FURNISHED BY OTHERS

Contractor shall provide all conduit, wire and disconnect switches to connect electricul equipment by others which shall include both new and relocation of existing equipment. All final electrical connections are to disconnect switches to connect electrical equipment supplied

15. RECORD DRAWINGS

The Contractor shall keep accurate records of actual construction including device locations and conduit runs if

The Contractor shall provide the owner with a reproducible set in CAD format of plans depicting the complete electrical system as installed (as built drawings). The scale on these as built drawings shall be no smaller than the scale used on the original plans.

Ground system test shall be made and test report furnished to the engineer Function test shall be completed only after the engineer has

confirmed that the installation is complete.

FINAL ACCEPTANCE

After testing a final inspection shall be made by the Engineer and other authorized persons with the Contractor Final acceptance of the project shall not prejudice the

Owner's right to require replacement and/or repair of any defective work or materials.

ELECTRICAL SYMBOL LIST

	LOTTOTIL STINDOL LIST	
<u></u>	SIMPLEX RECEPTACLE 125V 20A	16" AFF OR AS NOTED
6	DUPLEX RECEPTACLE 125V 20A	16" AFF OR AS
	DUPLEX RECEPTACLE 125V 20A	NOTED 44" AFF OR AS
#	QUAD RECEPTACLE 125V 20A	NOTED 16" AFF OR AS
П	QUAD RECEPTACLE 125V 20A	NOTED 44" AFF OR AS
A		NOTED 16" AFF OR AS
	MULTI POLE RECEPTACLE	NOTED
•	DUPLEX RECEPTACLE 125V 20A	FLUSH WITH FLOOR
6	DUPLEX RECEPTACLE 125V 20A (1/2 RECEPTACLE SWITCHED)	16" AFF OR AS NOTED
GFI	DUPLEX RECEPTACLE 125V 20A GROUND FAULT	16" AFF OR AS NOTED
GFI GFI	DUPLEX RECEPTACLE 125V 20A GROUND FAULT	44" AFF OR AS NOTED
\$	SINGLE POLE SWITCH MTD. 48" AFF UNLESS OTHERWISE NOTED,	48" AFF OR AS
\$ _{MS}	MOTOR DUTY AS REQUIRED. SINGLE POLE SWITCH MTD. 48' AFF UNLESS OTHERWISE NOTED,	NOTED 48" AFF OR AS
	MOTION SENSOR	NOTED AS
\$2	2-POLE SWITCH MOUNTED AT 48" OR AT EQUIPMENT	48" AFF OR AS NOTED
\$3	THREE-WAY SWITCH MTD. 48" AFF	48" AFF OR AS NOTED
\$4	FOUR-WAY SWITCH MTD. 48" AFF	48" AFF OR AS NOTED
J	JUNCTION BOX	48" AFF OR AS
Ц	DISCONNECT	48" AFF OR AS NOTED
	RECESSED LIGHTING FIXTURE, SEE SCHEDULE FOR TYPE AND LAMP REQUIREM	
—	SURFACE CEILING LIGHTING FIXTURE, SEE SCHEDULE FOR TYPE AND LAMP RE	EQUIREMENTS
	Y SURY ACEN WAYL LINGHTING FINTURY, SINE SWHEDINGE HUR HOPE AND LAMPYRED	ORENENTS Y
	SURFACE CEILING FLUDRESCENT LIGHTING FIXTURE, SEE SCHEDULE FOR REQU	JIREMENTS
	RECESSED CEINING SLUDRESCENT AIGHTING SIXTURE, SEE SCHEDULENFORME	QNIREMENTS X X X
4	EMERGENCY EGRESS LTG. MTD. 7'-6' AFF DR AS NOTED, W/ BATTERY BACKUF	
<u> </u>	EXIT SIGN MTD. 7-6" AFF OR FROM CEILING. W/ BATTERY BACKUP	
.20	FACES AND ARROWS AS INDICATED COMBO EXIT / EL MTD. 7-6' AFF OR FROM CEILING, W/ BATTERY BACKUP FACES AND ARROWS AS INDICATED	
444	FACES AND ARROWS AS INDICATED	



Tilli

EXHAUST FAN

BRANCH LIGHTING SWITCHED

BRANCH LIGHTING SWITCHED & UN-SWITCHED

BRANCH LIGHTING UN-SWITCHED

CONSTRUCTION DRAWINGS



ELECTRICAL/CONTROL REVISION

FUEL LEVEL LOV

COOLENT TEMP HIGH

DIL PRESSURE LOV

GENERATOR FAI

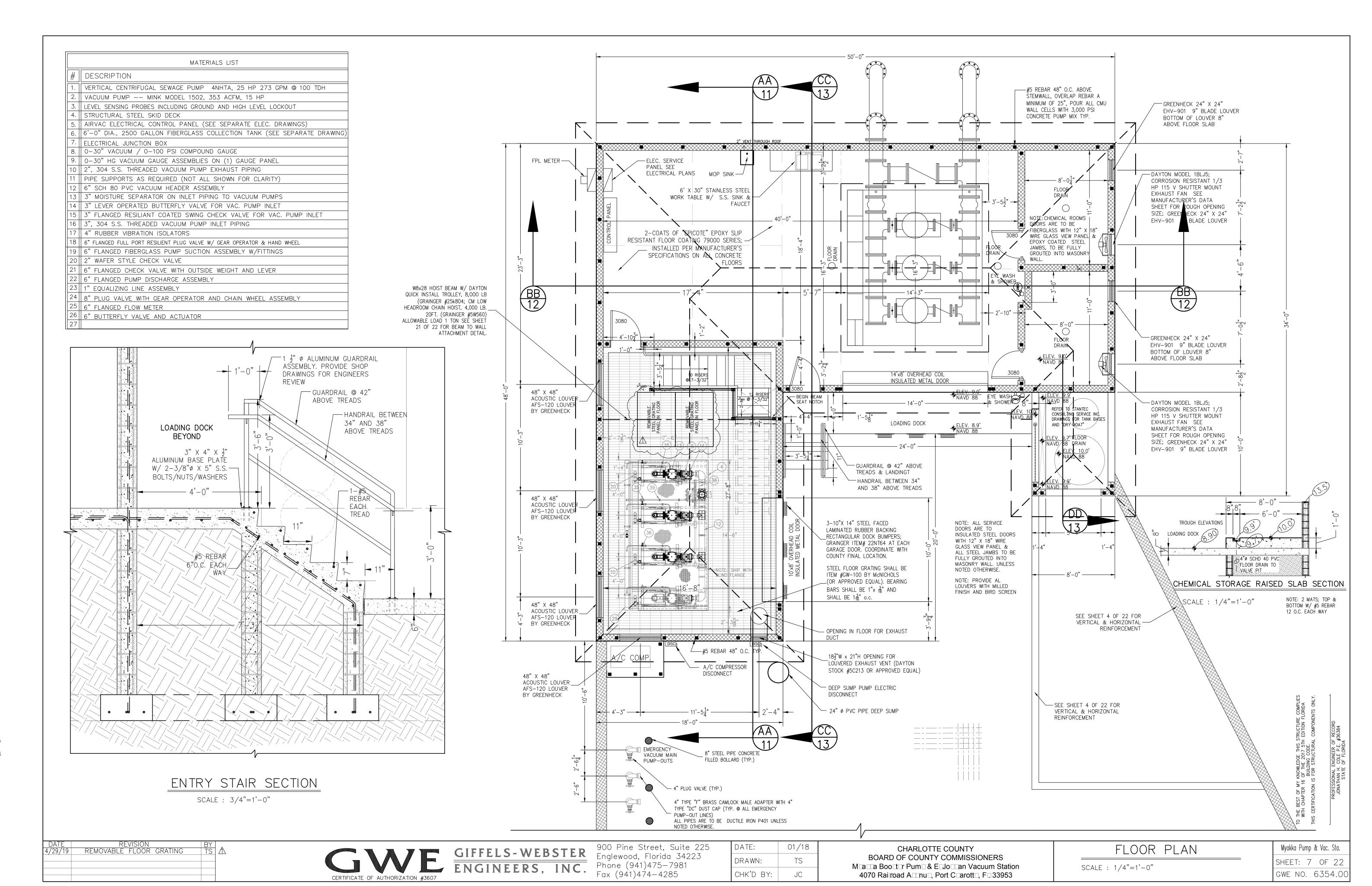


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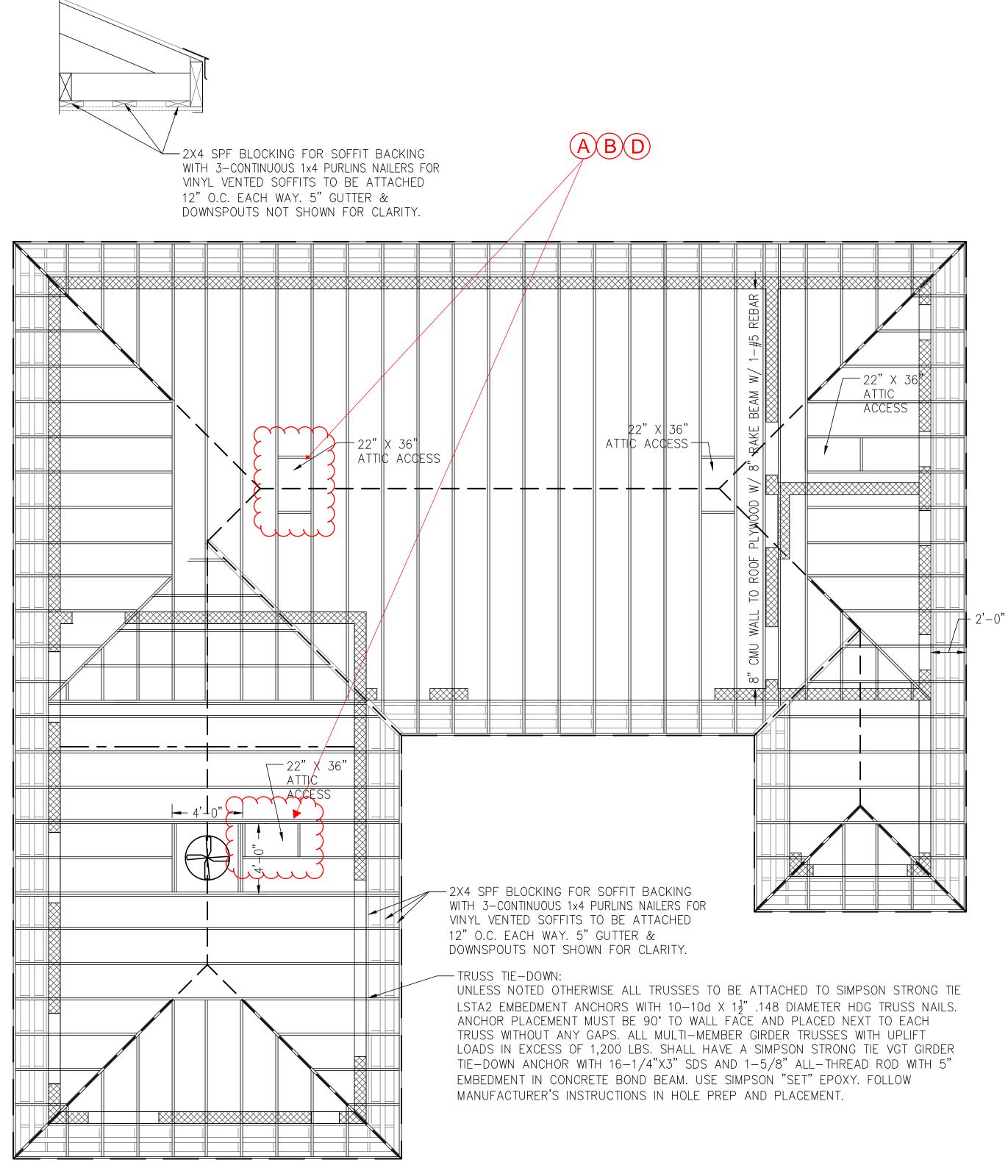
DATE: 08/14

Charlotte County Government Spring Lake Vacuum Station

Spring Lake Vac. Sta. SHEET: E6 OF E7 GWE NO. 6176.00

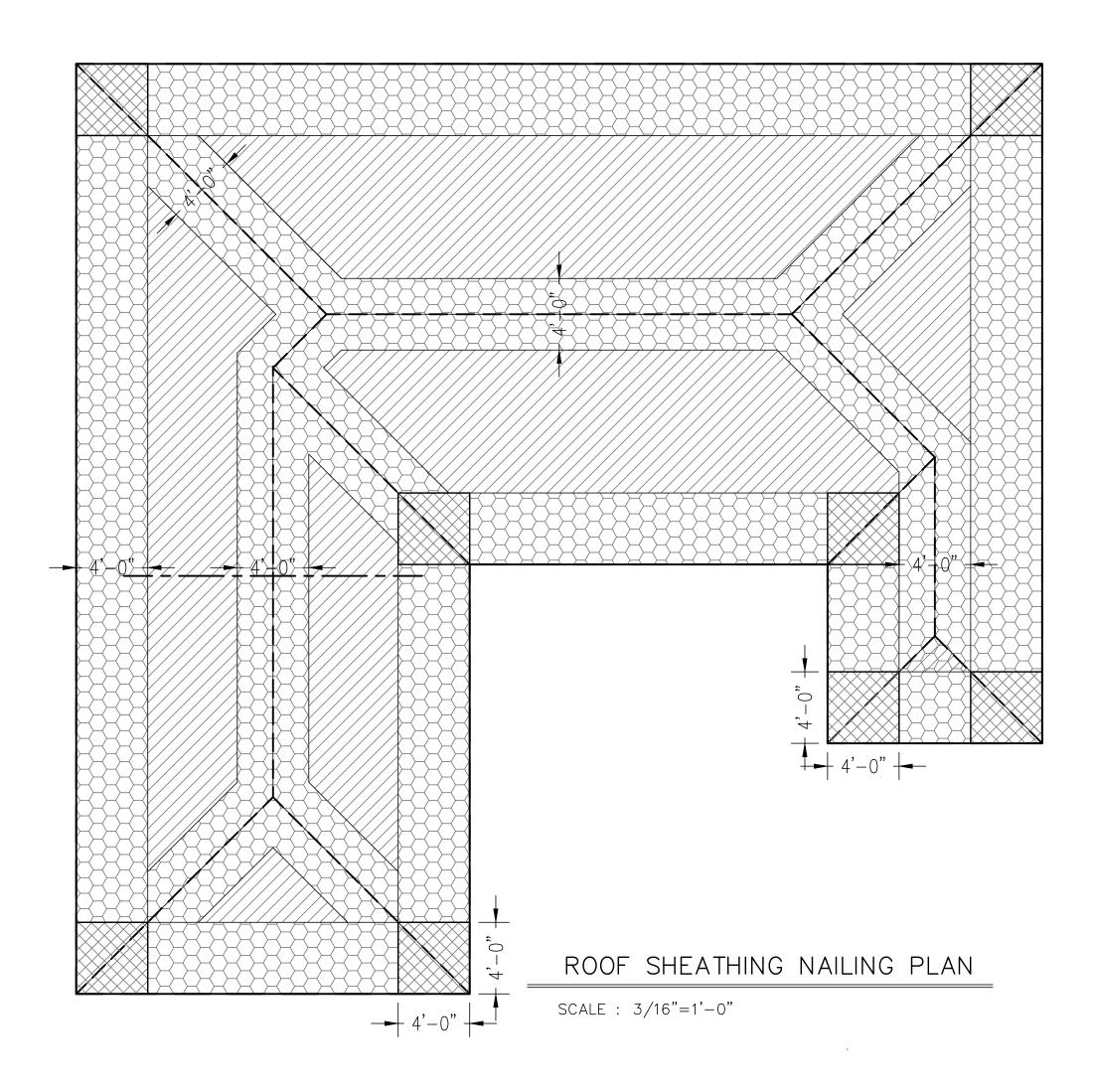


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ROOF TRUSS LAYOUT PLAN

SCALE : 1/4"=1'-0"



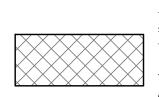
ROOFWAILINGZONES

DAMAGED (A) B ROOF SHEATHING TO BE 19/32" 5-PLY CDX PLYWOOD

ZONE 1

10d (3"X 0.148" RINGSHANK) 316 STAINLESS STEEL NAILS @ 4" o.c. AT ALL EDGES; 6" o.c. IN FIELD

ZONE 2 10d (3"X 0.148" RINGSHANK) 316 STAINLESS STEEL NAILS ⇒ @ 3" o.c. AT ALL EDGES; 6" o.c. IN FIELD



ZONE 3 10d (3"X 0.148" RINGSHANK) 316 STAINLESS STEEL NAILS @ 3" o.c. THROUGHOUT

NOTE: USE ZONE 3 NAILING PATTERN FOR CUPOLA ROOF.

NEW WORK

- (A) Remove
- B Replace
- © Repair

TO THE BEST OF MY KNOWLEDGE THIS STRUCTURE COMPLIES WITH CHAPTER 16 OF THE 2017 5TH EDITION FLORIDA BUILDING CODE.

THIS CERTIFICATION IS FOR STRUCTURAL COMPONENTS ONLY.

PROFESSIONAL ENGINEER OF RECORD JONATHAN H. COLE P.E. #36384 STATE OF FLORIDA

GIFFELS-WEBSTER
ENGINEERS, INC.

900 Pine Street, Suite 2
Englewood, Florida 3422
Phone (941)475-7981
Fax (941)474-4285

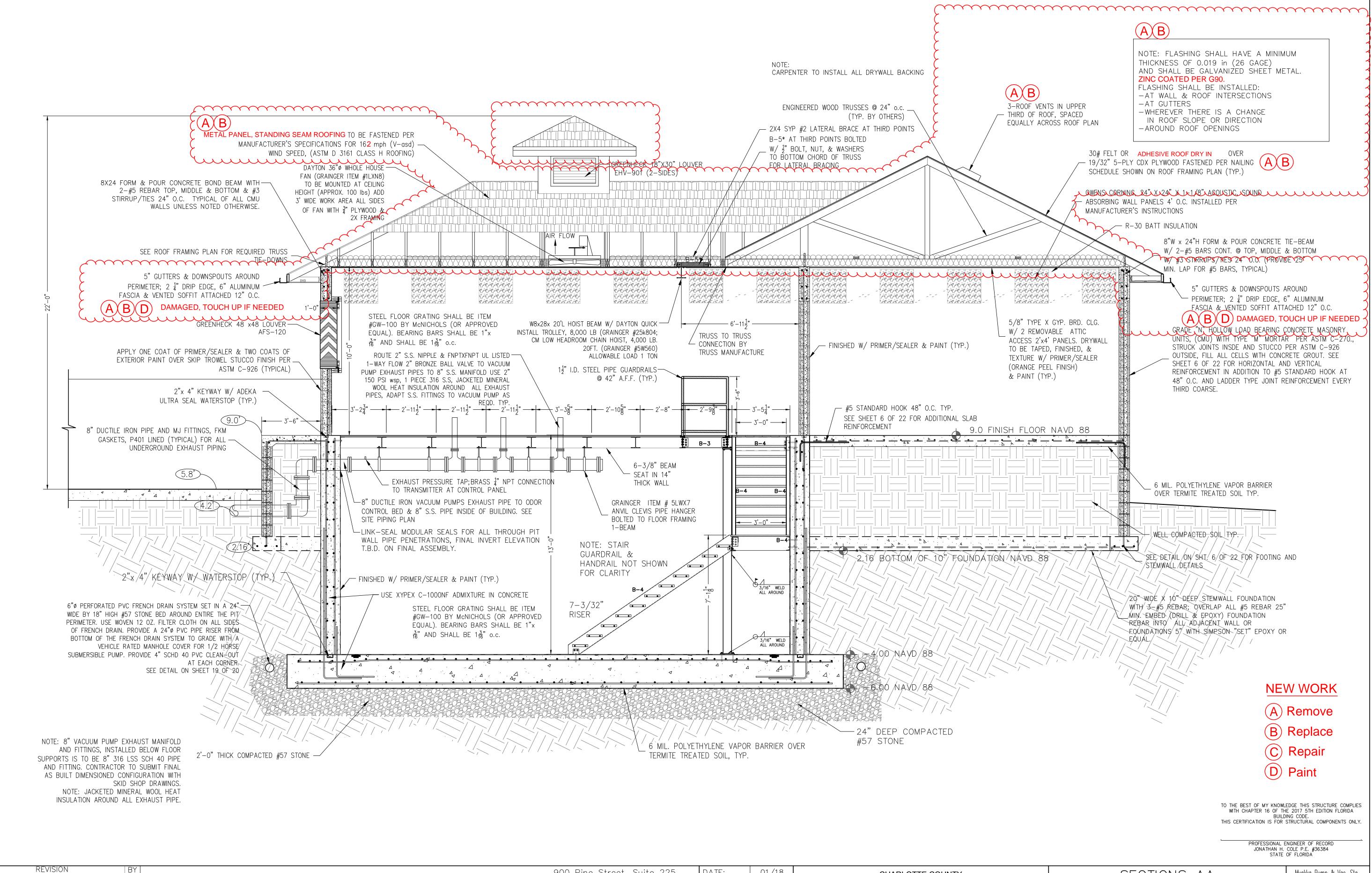
900 Pine Street, Suite 225 Englewood, Florida 34223

DATE: 01/18 TS DRAWN: CHK'D BY:

CHARLOTTE COUNTY BOARD OF COUNTY COMMISSIONERS M ☐a ☐ a Boo ☐ t ☐ Pum ☐ & E ☐ Jo ☐ an Vacuum Station 4070 Rairoad A⊡nu Port C arott F 33953

ROOF TRUSS & ROOF NAILING PLAN

Myakka Pump & Vac. Sta. SHEET: 10 OF 22 GWE NO. 6354.00



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CERTIFICATE OF AU

GIFFELS-WEBSTER ENGINEERS, INC.

900 Pine Street, Suite 225 Englewood, Florida 34223 Phone (941)475—7981 Fax (941)474—4285 DATE: 01/18

DRAWN: TS

CHK'D BY: JC

CHARLOTTE COUNTY
BOARD OF COUNTY COMMISSIONERS

Maaa Booter Puma & Eajoan Vacuum Station
4070 Rairoad Aanu, Port Carott, Fa33953

SECTIONS AA

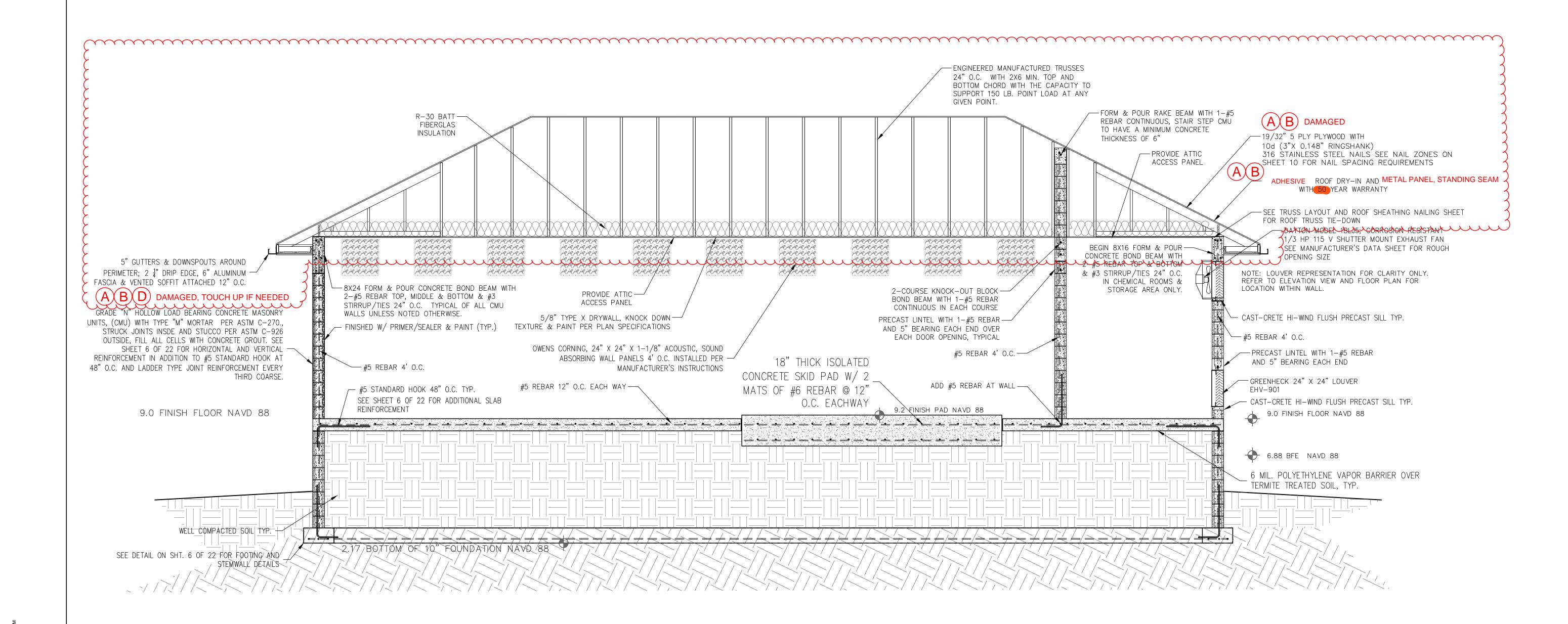
SCALE : 3/8"=1'-0"

Myakka Pump & Vac. Sta.

SHEET: 11 OF 22

GWE NO. 6354.00

- (A) Remove
- B Replace
- C Repair
- (D) Paint



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PROFESSIONAL ENGINEER OF RECORD JONATHAN H. COLE P.E. #36384 STATE OF FLORIDA

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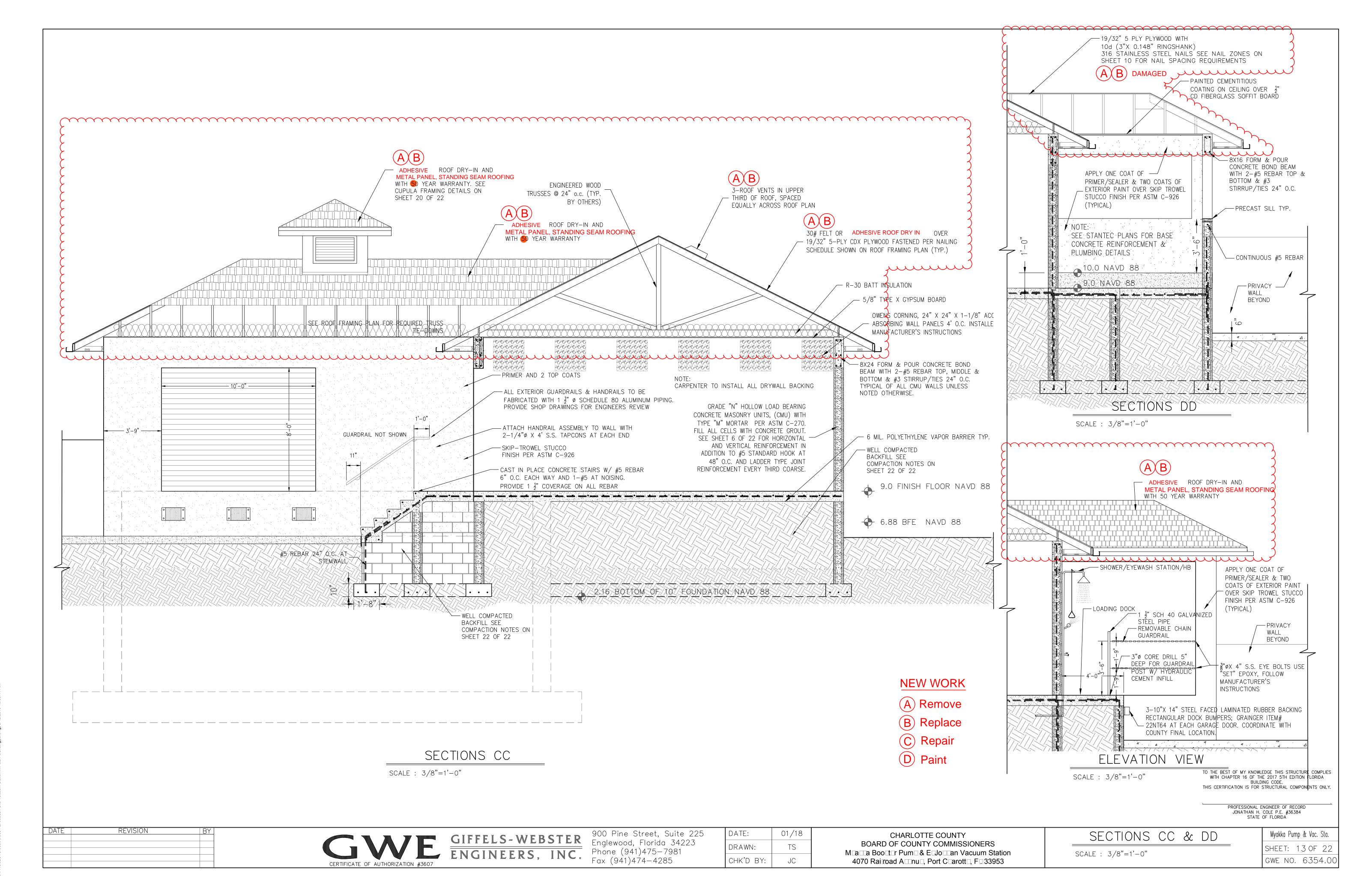
900 Pine Street, Suite 225
Englewood, Florida 34223
Phone (941)475-7981
Fax (941)474-4285

01/18 DATE: DRAWN: TS CHK'D BY:

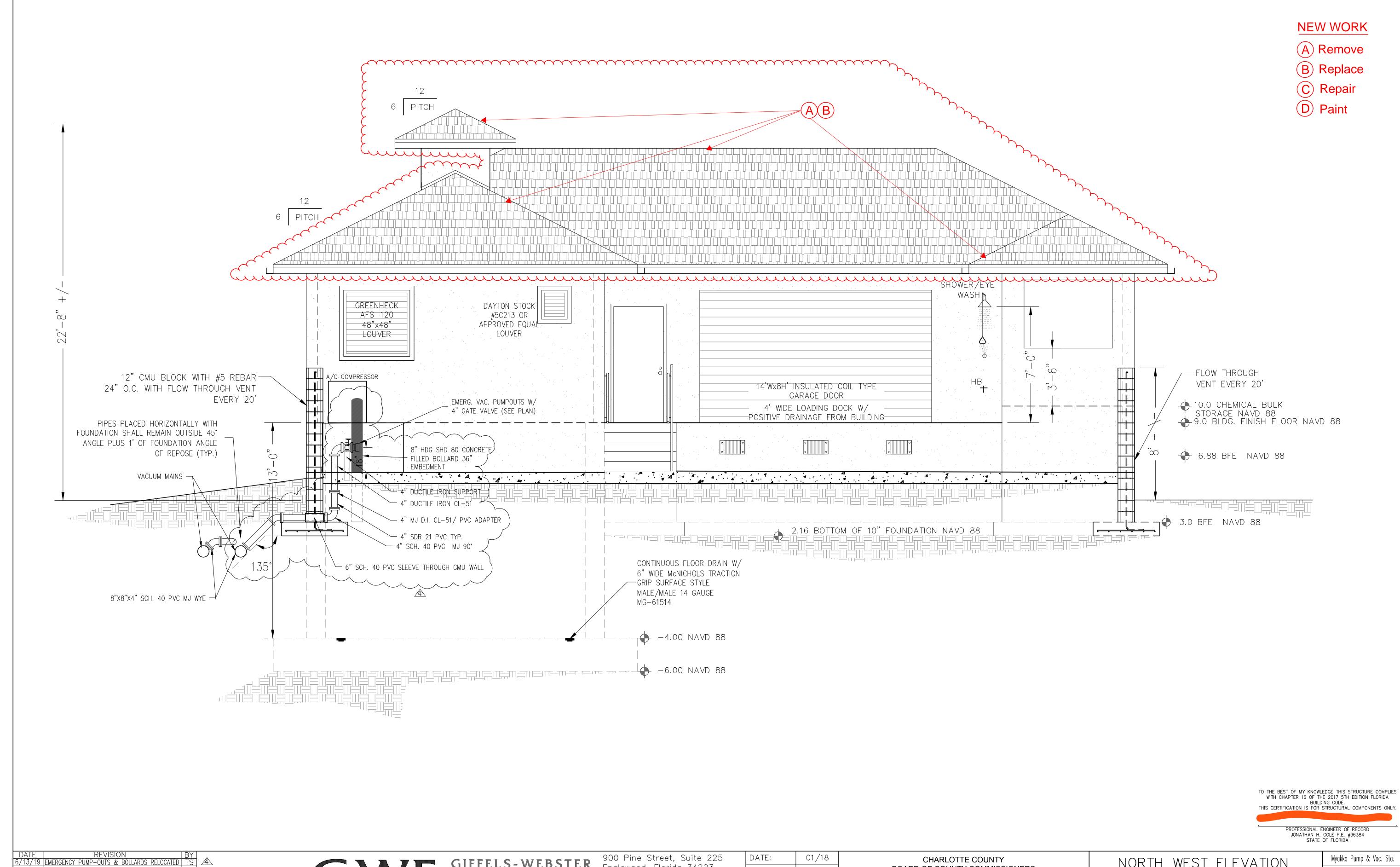
CHARLOTTE COUNTY 4070 Rairoad A⊡nu Port C arott F 33953

SECTIONS BB SCALE : 3/8"=1'-0"

Myakka Pump & Vac. Sta. SHEET: 12 OF 22 GWE NO. 6354.00



S./PRO.IECTS\6300's\6354 Fl. lobean Site Vacuum Station\MP&FV Building C.dwg 8/12/2019



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ENGINEERS, INC.

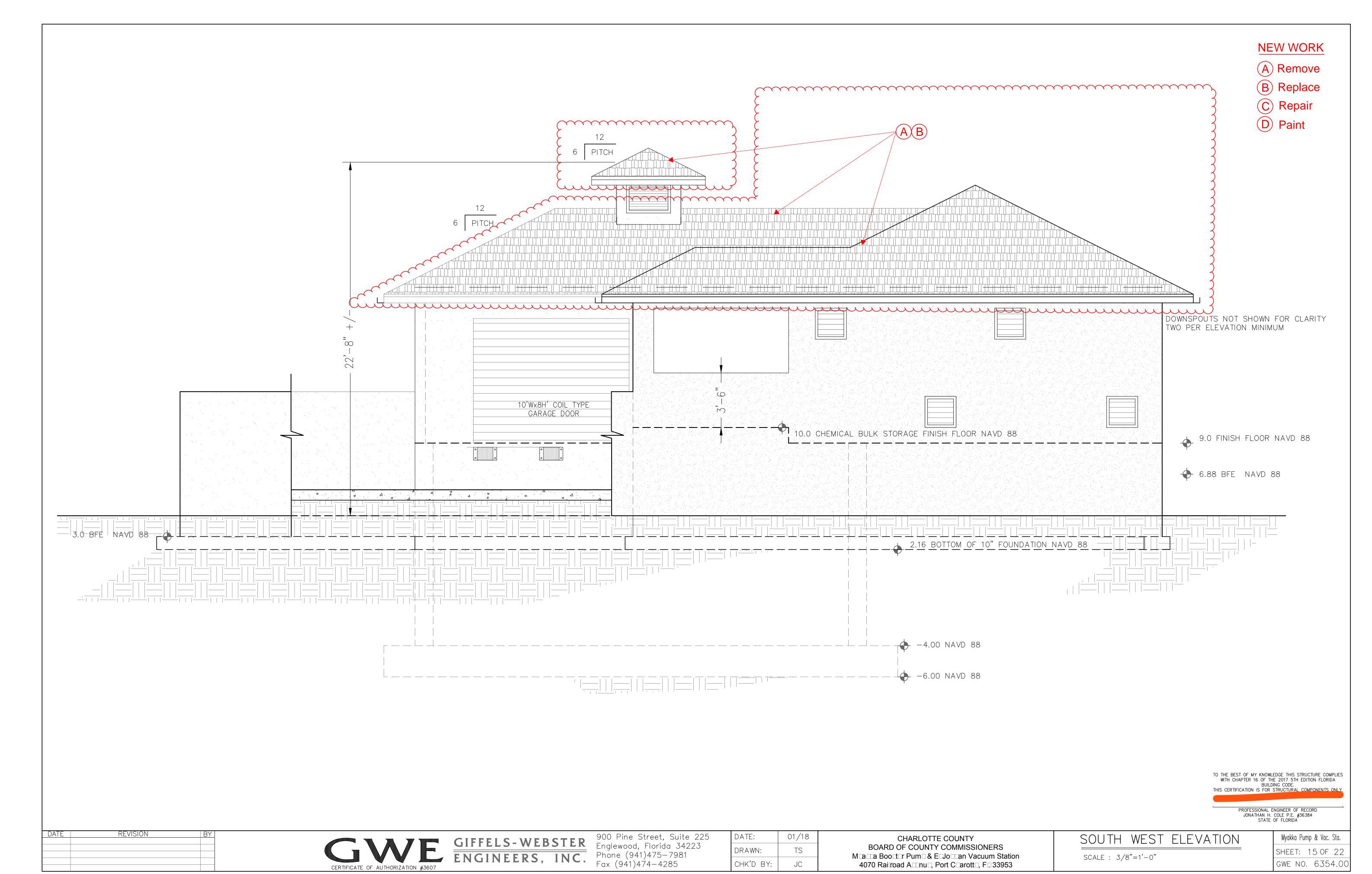
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Fax (941)474-4285

DATE: 01/18 DRAWN: TS CHK'D BY:

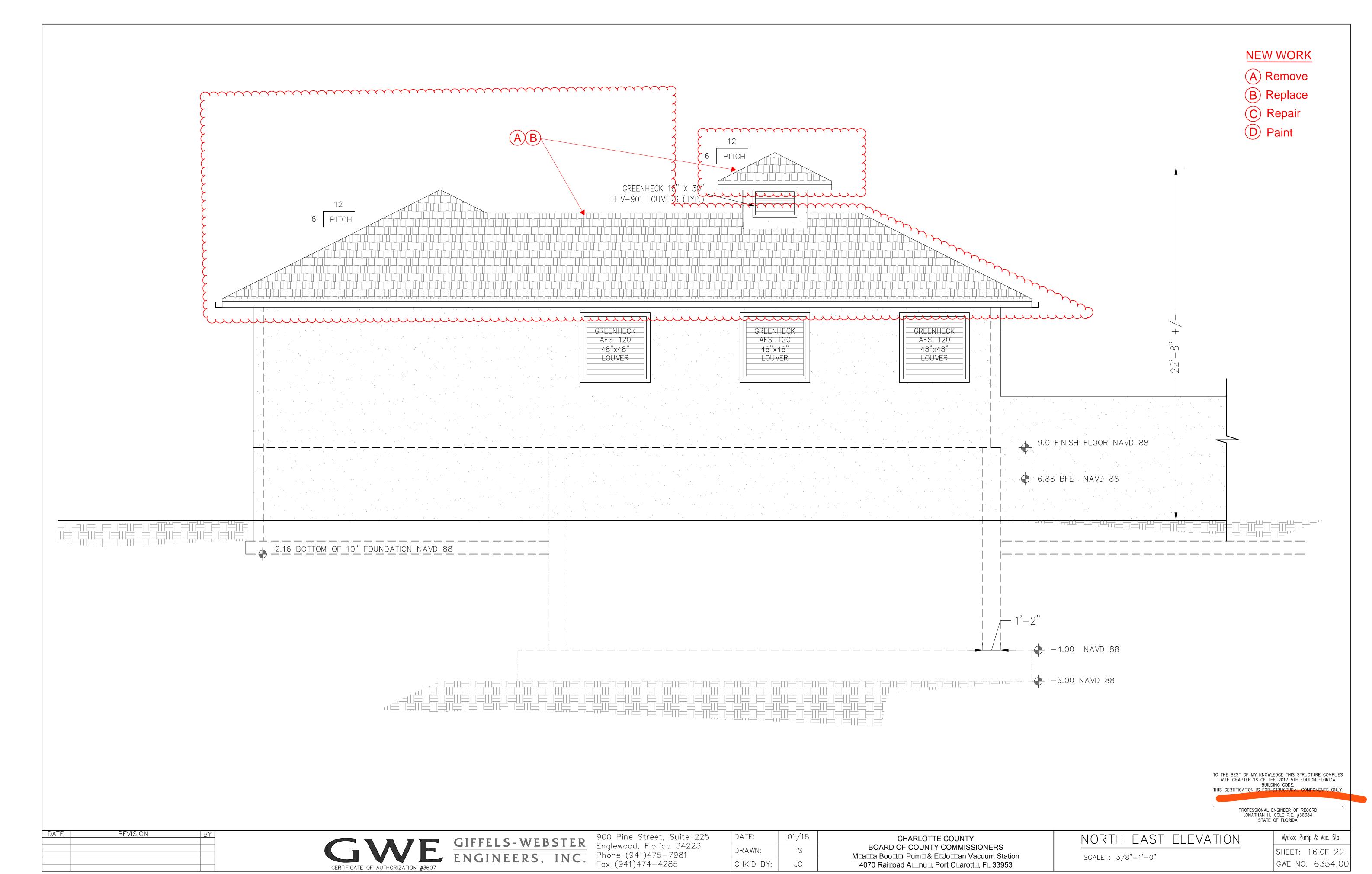
CHARLOTTE COUNTY BOARD OF COUNTY COMMISSIONERS M a a Boo t Pum & E Jo an Vacuum Station 4070 Rairoad A⊡nu Port C arott F 33953

NORTH WEST ELEVATION SCALE : 3/8"=1'-0"

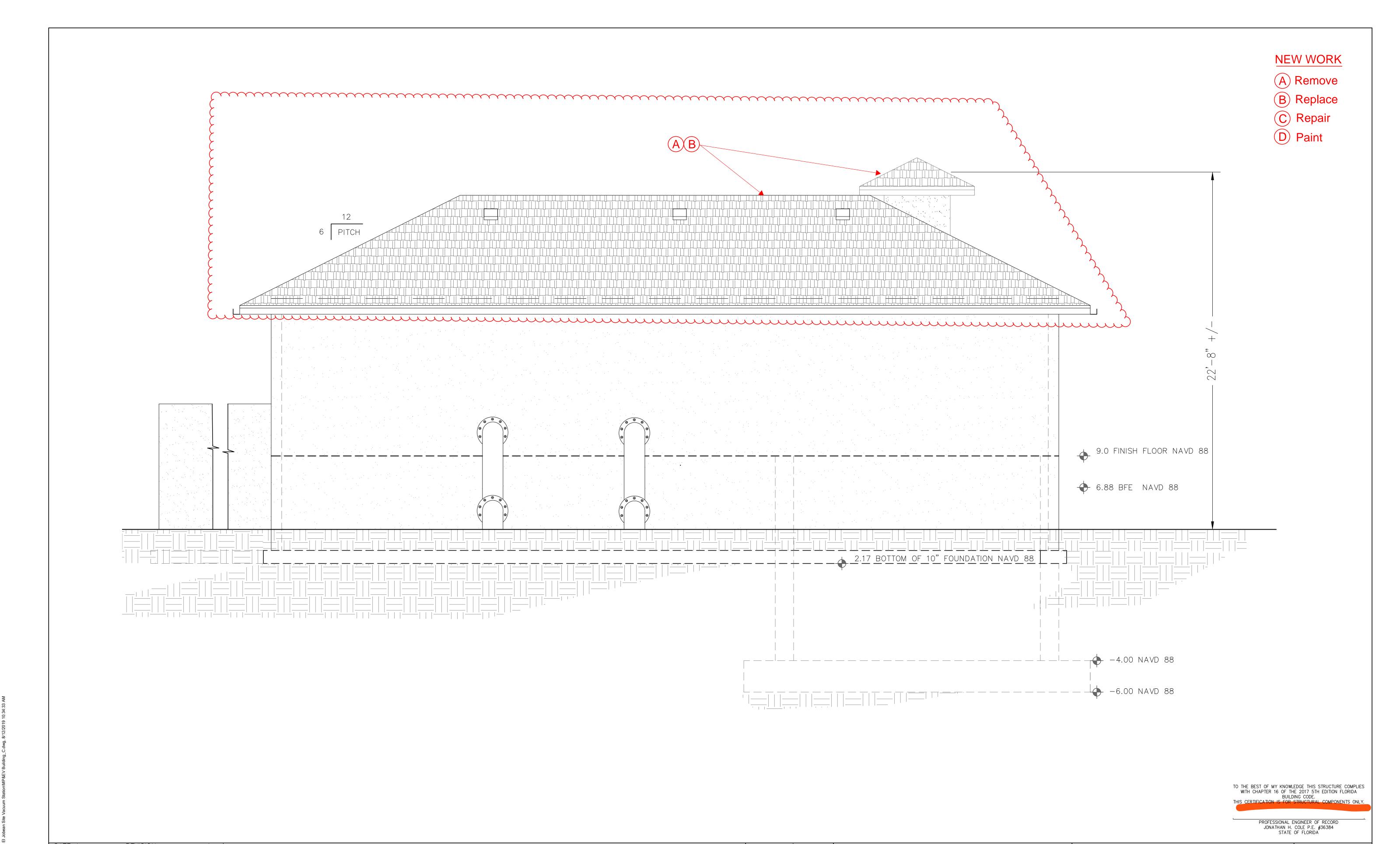
Myakka Pump & Vac. Sta. SHEET: 14 OF 22 GWE NO. 6354.00



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ENGINEERS, INC.

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Englewood, Florida 34223
Phone (941)475-7981
Fax (941)474-4285

DATE: 01/18 DRAWN: TS CHK'D BY:

CHARLOTTE COUNTY 4070 Rairoad A⊡nu□, Port C□arott□, F□33953 SOUTH EAST ELEVATIONS

SCALE : 3/8"=1'-0"

Myakka Pump & Vac. Sta. SHEET: 17 OF 22 GWE NO. 6354.00

BOARD OF COUNTY COMMISSIONERS M□a□a Boo□t□r Pum□ & E□Jo□□an Vacuum Station

GIFFELS-WEBSTER

ENGINEERS, INC.

SIMPSON H2.5A FROM TOP PLATES TO CUPOLA

-SIMPSON SP4 32" O.C. OVER DOUBLE TOP PLATES (TYP)

2X4 SPF BLOCKING FOR SOFFIT BACKING.

EACH WAY A B D DAMAGED, TOUCH UP

VINYL VENTED SOFFITS ATTACH 12" O.C.

TRUSSES (TYP)

DATE:

DRAWN:

CHK'D BY:

01/18

TS

CHARLOTTE COUNTY

Ma a Bootr Pum & E Jo an Vacuum Station

4070 Rairoad A□nu Port C□arott F□33953

BOARD OF COUNTY COMMISSIONERS

900 Pine Street, Suite 225

Englewood, Florida 34223

Phone (941)475-7981

NOTE: CARPENTER TO PROVIDE

ALL DRYWALL NAILERS

2X12 SPF#2 HEADER (TYP) -

2X4 SPF#2 STUD WALL

(TYP)

SIMPSON HGA10 CONNECTORS TO

(5) 1/4" x 23/4" TITEN SCREWS &

2-20d S.S.

RINGSHANK NAILS

TYP. EACH MEMBER, EACH

BE INSTALLED AS SHOWN W/

(4) ½"x 1½" SDS SCREWS EA.

NEW WORK

(A) Remove

B Replace

C Repair

2"x 2"x 1/4" STEEL ANGLE W/

EXPANSION BOLTS TO SLAB

SEE RAILING

/ DETAILS, THIS

C10x15.3 CHANNEL

STRINGERS EACH SIDE OF STAIR

(2) ¾" BOLTS

THROUGH STRINGER

TO ATTACH TREAD

(TYP. EA. TREAD,

EA. SIDE)

TO THE BEST OF MY KNOWLEDGE THIS STRUCTURE COMPLIES WITH CHAPTER 16 OF THE 2017 5TH EDITION FLORIDA BUILDING CODE.

THIS CERTIFICATION IS FOR STRUCTURAL COMPONENTS ONLY.

PROFESSIONAL ENGINEER OF RECORD JONATHAN H. COLE P.E. #36384 STATE OF FLORIDA

Myakka Pump & Vac. Sta.

SHEET: 20 OF 22

GWE NO. 6354.00

SHEET

(2) ½"ø BOLTS THROUGH STRINGER & (2) 1/2" x 4"

(D) Paint

C10x15.3 STRINGERS

(TYPICAL)

EACH SIDE OF STAIRS

14 Ga., 11¾" GRIP STRUT TREADS AS

& GUARDRAIL

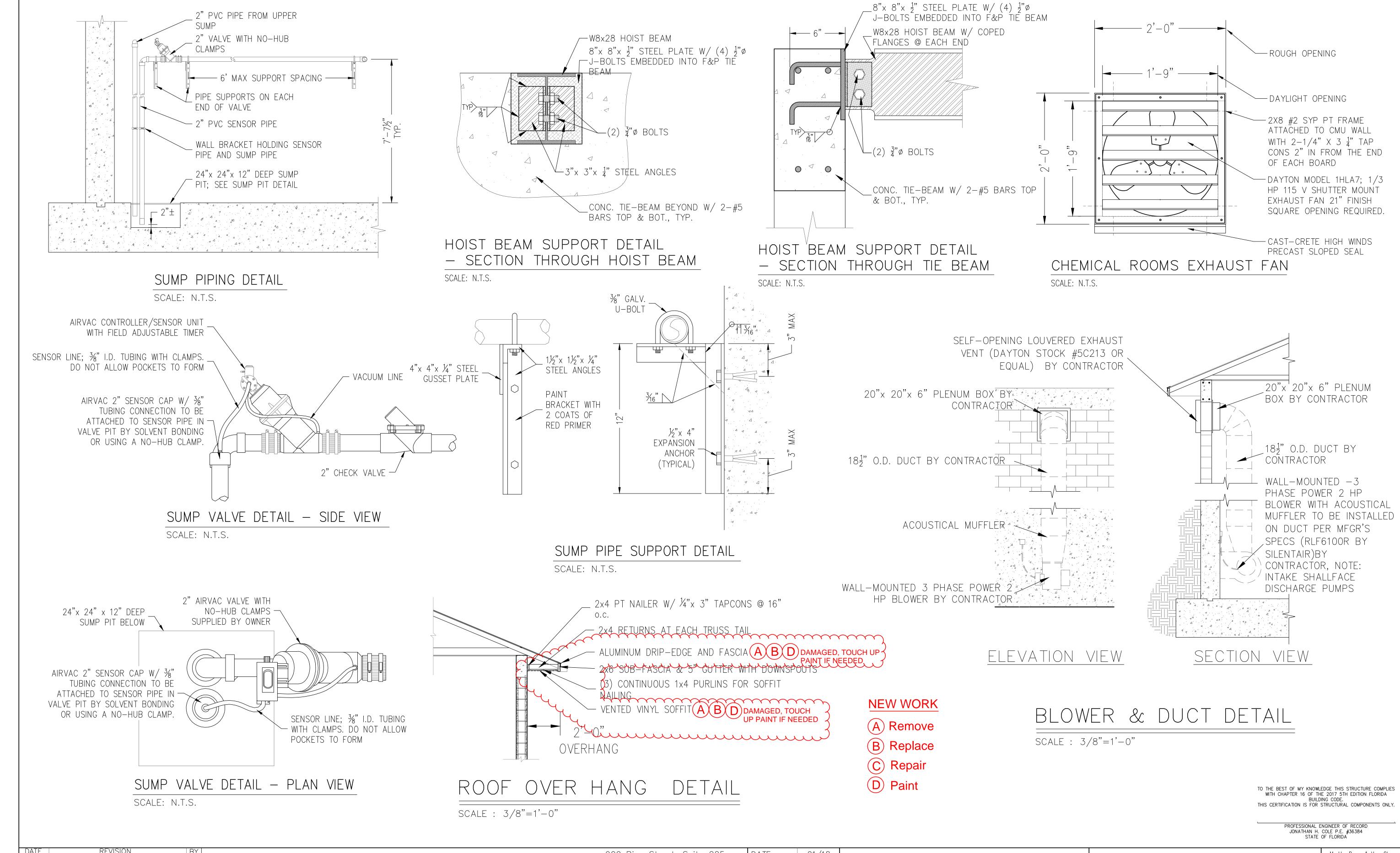
MISCELLANEOUS DETAILS

- MANUFACTURED BY McNICHOLS OR

EQUIVALENT (TYPICAL)

REVISION

• •



S:\PROJECTS\6300's\6354 El Jobean Site Vacuum Station\MP&EV Building_C

CERTIFI

GIFFELS-WEBSTER ENGINEERS, INC.

900 Pine Street, Suite 225 Englewood, Florida 34223 Phone (941)475—7981 Fax (941)474—4285 DATE: 01/18

DRAWN: TS

CHK'D BY: JC

CHARLOTTE COUNTY
BOARD OF COUNTY COMMISSIONERS

Maaa Booter Puma & Eajoan Vacuum Station
4070 Rairoad Aanu, Port Carott, Fa33953

MISCELLANEOUS DETAILS

Myakka Pump & Vac. Sta.

SHEET: 21 OF 22

GWE NO. 6354.00

VACUUM HEADER UNI-STRUT DETAIL SCALE: N.T.S. **GENERAL NOTES:**

DESIGN CRITERIA:

Florida Building Code, 2023 8th Edition ASCE 7-22 Wind Velocity = 162 M.P.H. Internal Pressure Coefficient = ± 0.18 (Enclosed Building) Category III Building Exposuré C

Component & Cladding ASD Loads based on a loaded area of (10 sf or less and a wind directionality factor of 0.85 are as

-39.7/+21.1Zone -89.4/+21.1-123.6/+21.1-39.7/+36.6-49.0/+36.6

If a specific component has a tribatery area larger than 10 sf and requires a reduced component & cladding toad, this specifications & dimensions of the product shall be submitted to the Engineer of Record for wind analysis.

2. Live Loads — in accordance with FBC 2017, Table 1607.1 unless noted.

> Floors, Decks, & Stairs: 100 psf 20 psf

GENERAL:

CONSTRUCTION:

- 1. Unless noted otherwise, all wood construction shall meet or exceed requirements of Chapter 23, FBC. Table 2304.9.1 shall be used as a minimum for all nailing schedules. Roof, wall, & floor diaphragms shall be as follows unless noted otherwise:
- -Unblocked @ roof: 4" @ edges/ 6" @ intermediate supports
- -Min. 19/32" CDX 4-ply plywood shall be used for roof diaphragm w/10d ringshank nails $(0.148"\emptyset$ shank)
- 2. Pre-manufactured straps, hangers, and clips shall be installed according to manufacturer's recommendations as required to supply desired performance.
- 3. Due to the nature of this construction the Engineer of Record shall be given the opportunity to re-evaluate these plans and specifications as additional information becomes available or unforeseen circumstances arise.
- 4. This structure has been designed to be self supporting and stable after the building is complete. It is the responsibility of the contractor to determine suitable sequencing, means and methods of construction, including, but not limited to the addition of necessary shoring, tie downs, temporary bracing, etc.

- CLAMP SUPPORTS AT 4'-0" O.C. MAX.

8" PVC VACUUM HEADER

SOIL COMPACTION:

SUBMITTALS:

MATERIALS:

prior to installation.

of the trusses.

State Building Codes.

plan during construction.

Engineer of Record for review.

to Engineer of Record for review.

CONDUITS- RUN PARELLEL - WITH HORIZONTAL SECTIONS OF VACUUM HEADER

Top soil shall be removed to a minimum depth of one foot over the entire building area and five feet beyond building lines. These

exposed surface should than be compacted to a depth of (1) foot

modified proctor density as determined in accordance with ASTM D-698. After densification of natural soils, fill material to finished

grade shall be placed with a maximum lift of 12" and compacted

shall be clean to slightly silty fine sand, free of organic material

to a minimum 95% of the modified proctor density. Fill material

All construction shall meet requirements of all Local and

2. Engineer of Record shall be notified of any deviation to this

Contractor shall retain the services of a certified material

compaction testing. Results of all tests shall be submitted to the

all manufactured structural components (including concrete piles)

2. Contractor shall verify all dimensions and conditions in the

3. All structural changes shall be signed & sealed by the

Engineer of Record & re-submitted to the Building Department

PREFABRICATED WOOD TRUSSES: WWW.

the truss layout plan shall be submitted to the Engineer of Record

Truss components shall be designed by others to withstand the

wind loads for Components & Cladding as determined by ASCE

7—10, Chapter 6. Complete designs of each truss (profiles) and

for review. Shop drawings shall bear the signature & seal of the

Florida Registered Professional Engineer responsible for the design

Truss reactions & uplift on the host structure shall be determined

based on appropriate live & dead loads and the Main Wind Force

method of wind analysis shall be noted on the truss designs and

Resistance System criteria of ASCE 7—10. Net uplift forces shall

be determined using the actual available dead load. ASCE 7—10

plans shall be reported to the Engineer of Record.

field as work progresses. All discrepancies and deviations from the

Contractor shall submit cut sheets and erection drawings for

testing laboratory to conduct all required concrete & soils

below the cleared and grubbed surface to a minimum 95% of the

areas should be cleared and grubbed of any vegetation. The

(2) LINK-SEAL MODULAR SEALS AT EACH PIPE PÉNETRATION THROUGH CONCRETE WALL; TYP. (AT 3" PIPE, USE 10-LS-315-S-316, AT 6" PIPE, USE 7-LS-400-S-316. AT 8" PIPE, USE 9-LS-400-S-316. AT 10" PIPE, USE 10-LS-400-S-316) INSTALL SEALS PER MANUFACTURER'S SPECIFICATIONS

DUCTILE IRON PIPE

(SEE LOWER LEVEL

FLOOR PLAN FOR

SIZES, LOCATIONS.

AND REQ'D HEIGHTS

LINK-SEAL DETAIL

SCALE: N.T.S.

MATERIALS (Cont.):

Provide mix designed by a recognized testing laboratory to achieve a strength at 28 days as listed below with a plastic and workable

CONCRETE WALL (SEE

6" PIPE; 8" PIPE; 10" PIPE

LOWER LEVEL FLOOR

PLAN)

5000 psi for all below-grade concrete pit walls and pit slabs 3000 psi or stronger is acceptable for all other structural components (slabs, monolithic footings, tie-beams, etc.)

Materials used to produce concrete and admixtures for concrete shall comply with ACI 318. Concrete shall comply with all requirements of ASTM C 150, ASTM C 595, or ASTM C 845. Concrete shall comply with all the requirements of ASTM Standard C94—74A for measuring, mixing, transporting, etc. Concrete tickets shall be time stamped when concrete is batched, the maximum time allowed from the time the water is added until it is deposited in its final position shall not exceed one and one half $(1\frac{1}{2})$ hours. If for any reason there is a longer delay than that stated above, the concrete shall be discarded. It shall be the responsibility of the testing lab to notify the owner's representative and the contractor of any non-compliance with the above. Concrete testing to be paid for by the contractor. Admixtures may be used only with the approval of the engineer. During hot weather, proper attention shall be given to the ingredients, production methods, handling, placing, protection and curing to prevent excessive concrete temperatures or water evaporation that may impair required strength or serviceability of the member or structure as per 1906.5 and 1906.7 of the Florida Building Code. MASONRY:

All Masonry work shall be done in accordance with "Building Code Requirements for Masonry Structures (ACI 530)" & "Specifications for Masonry Structures (ACI 530.1)"

- 1. Concrete masonry units shall be Grade "N" Hollow Load bearing Units, conforming to ASTM C-90 with a minimum compressive strength (f'm) of 1500 psi.
- 2. Mortar: Type M or S and shall conform to ASTM C-270.
- 3. Grout or pea-gravel concrete with an ultimate compressive strength of 3000 psi at 28 days, except for those locations as marked or noted on the structural drawings. Corefill mix shall conform to ASTM C-476.
- 4. Air—Entraining mixtures or hydrated lime containing air—entraining mixtures are prohibited because such admixtures will reduce the shear, tensile and compressive strength of the masonry. Calcium chloride is not permitted in mortar or grout in which reinforcement, metal ties, or anchors are embedded because of excessive corrosion.

CONTRACTOR TO DRILL/TAP INCOMING VACUUM LINES FOR 1/4" PIPE THREADS.

NOTE: GAUGES TO BE INSTALLED 60" FROM FROM PIT FLOOR

NOTE:

- 1) 0-30"HG VACUUM GAUGE MOUNTED TO TANK (TYP. OF 4)
- (1A) MERIT 1/2" S.S. BALL VALVE
- (1B) 1/2" MPT X 3/8" BARB ADAPTER
- (1C) 3/8" DIA. FLEX TUBING X 20'
- (1D) 1/2" X 1" S.S. NIPPLE
- (1E) 1/2" 90° S.S. ELBOW
- (1F) 1/4" MPT X 3/8" BARB ADAPTER

TYPICAL VACUUM LINE GAUGE PIPING DETAIL

SCALE: N.T.S.

MATERIALS (Cont.):

(1B)

1. All steel plates, bolts, washers, nuts, fasteners, hangers, straps and clips shall be "Z-MAX" (Salt air exposure) galvanized or stainless steel — (Simpson Products or equal).

- Steel plates and rolled steel members shall conform to ASTM A36 unless noted otherwise. Bolts, nuts and washers shall conform to ASTM A307 unless noted otherwise.
- 3. Lag bolts, nails, screws, hangers, straps, and clips shall be fabricated from appropriate materials and H.D.G. (Hot-dipped Galvanized) to meet conditions shown.
- 4. All handrails, guardrails and steel framing components (not including walking surfaces) shall be painted with rust-proof primer and shall be finished with safety yellow paint.

Glue used in the field for assembling wood products shall be waterproof exterior grade equal to or better than Liquid Nails.

EXTERIOR DOORS & LOUVERS:

1. All exterior windows, louvers & doors are required to be tested in accordance with ANSI/AMMA/NWWDA 101/IS2 standard and bear an AMMA or WDMA label identifying the manufacturer, performance characteristics, and approved product testing entity.

REINFORCING STEEL:

Reinforcing shall be ASTM A615 Grade 60, free from oil, scale and rust, and placed in accordance with the typical bending diagram and placing details and ACI 318 Standards and Specifications. Reinforcement shall be deformed reinforcement, except that plain reinforcement shall be permitted for spirals or tendons.

OCCUPANCY; CODE COMPLIANCE CRITERIA

GROUP U, UTILITY

CONSTRUCTION TYPE: III B

UNSPRINKLERED FBC 903.2.11

FIRE ALARM DETECTION SYSTEM NO REQUIREMENTS FBC 907

OCCUPANT LOAD 2,150 SF/300 MECH. EQUIP. AREA (TABLE1004.1.2) 7 PERSONS

EXIT ACCESS TRAVEL DISTANCE <300'

ENCLOSED BUILDING SQUARE FOOTAGE 1,632 SF 461 SF PIT SQUARE FOOTAGE 115 SF LOADING DOCK & STAIR SQUARE FOOTAGE 2,288 SF TOTAL

TO THE BEST OF MY KNOWLEDGE THIS STRUCTURE COMPLIES WITH CHAPTER 16 OF THE 2017 5TH EDITION FLORIDA BUILDING CODE.

THIS CERTIFICATION IS FOR STRUCTURAL COMPONENTS ONLY.

PROFESSIONAL ENGINEER OF RECORD JONATHAN H. COLE P.E. #36384 STATE OF FLORIDA

REVISION
UNISTRUTS BY CONTRACTOR
WIND ZONE CORRECTION



the layout.

GIFFELS-WEBSTER **ENGINEERS, INC.** Phone (941)475-7981

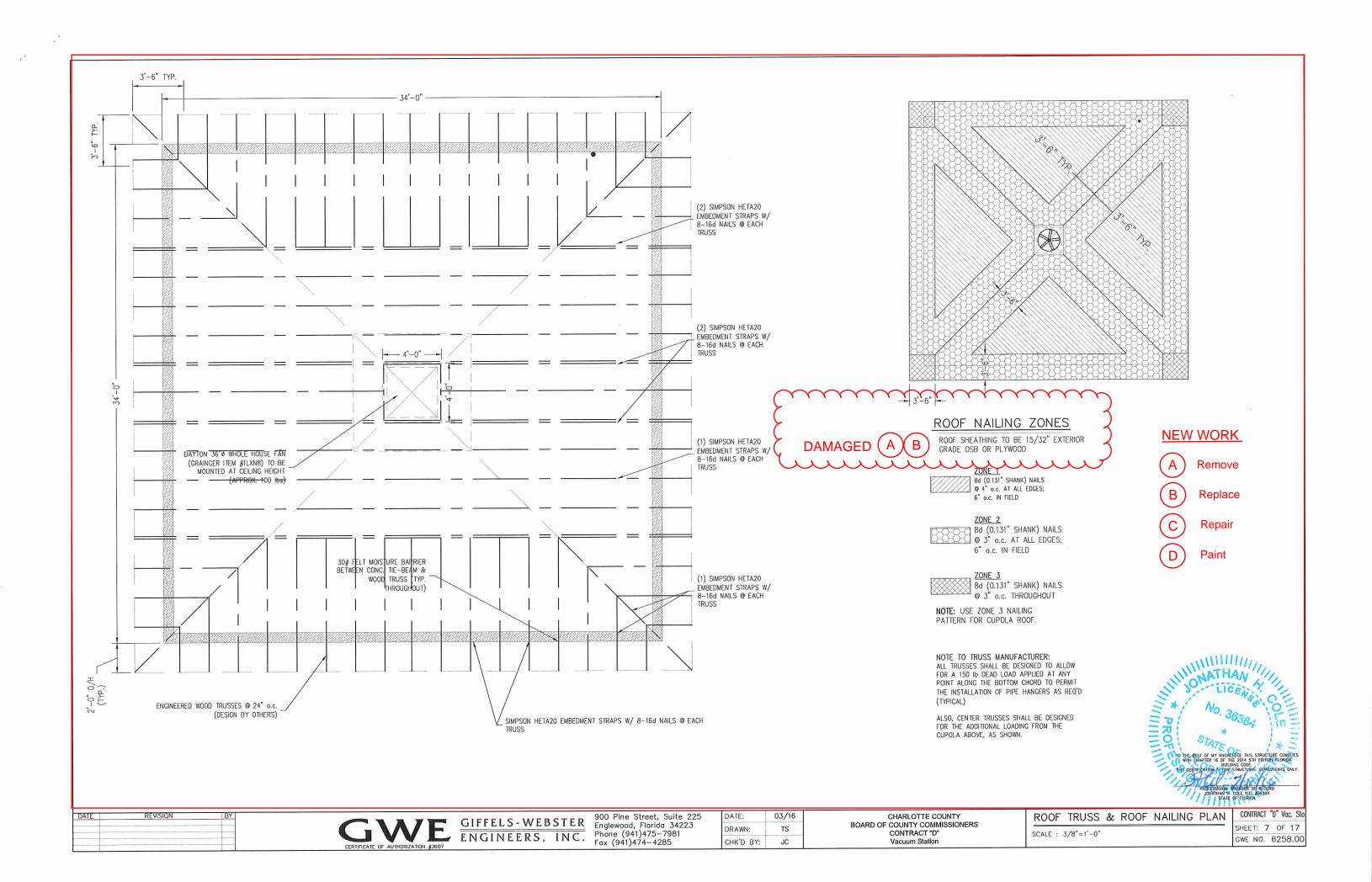
900 Pine Street, Suite 225 Englewood, Florida 34223 Fax (941)474-4285

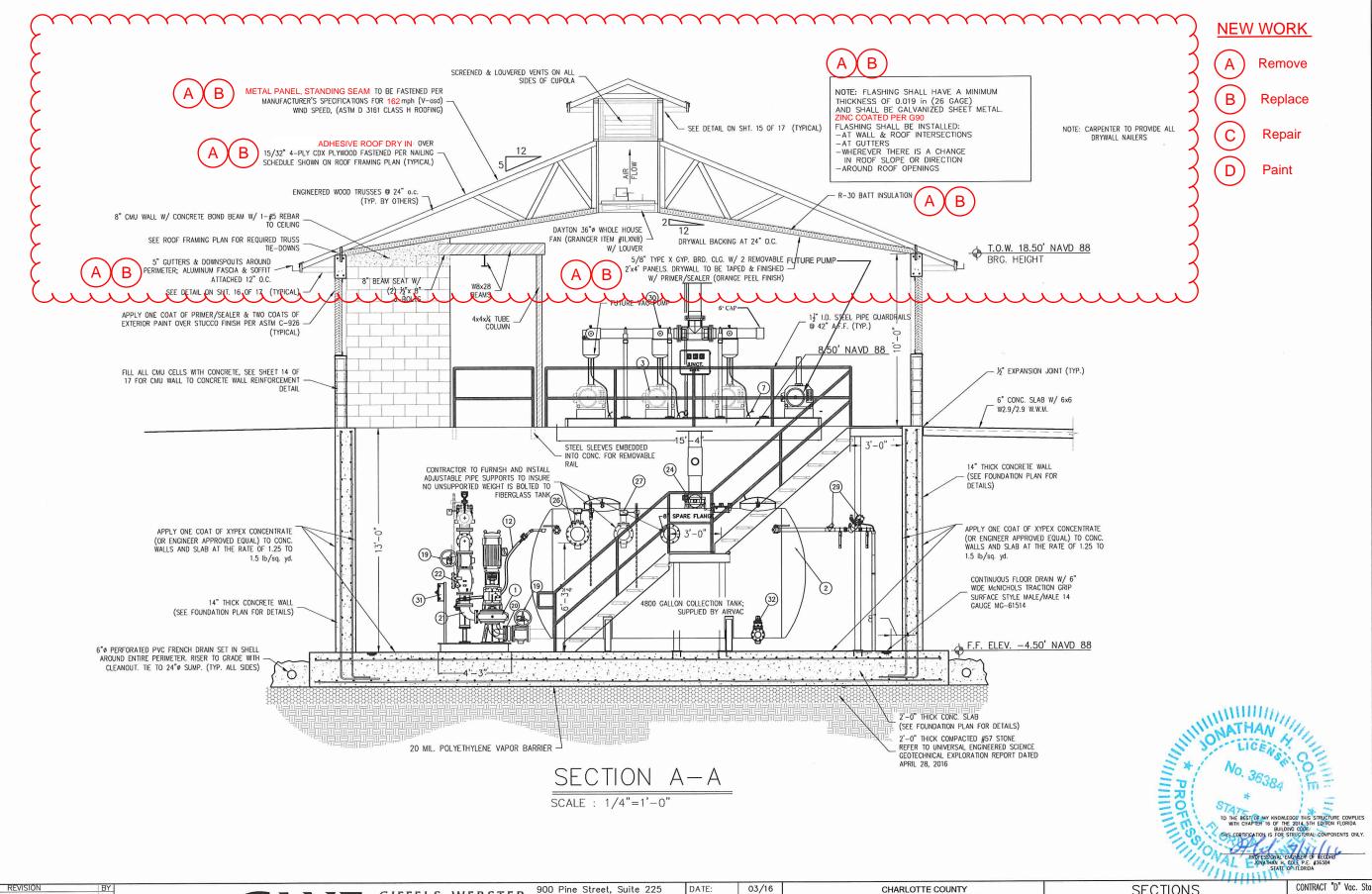
DATE: 01/18 TS DRAWN: CHK'D BY:

CHARLOTTE COUNTY BOARD OF COUNTY COMMISSIONERS Ma a Bootr Pum & E Jo an Vacuum Station 4070 Rairoad A⊡nu Port C arott F 33953

MISC. DETAILS & NOTES

Myakka Pump & Vac. Sta. SHEET: 22 OF 22 GWE NO. 6354.00





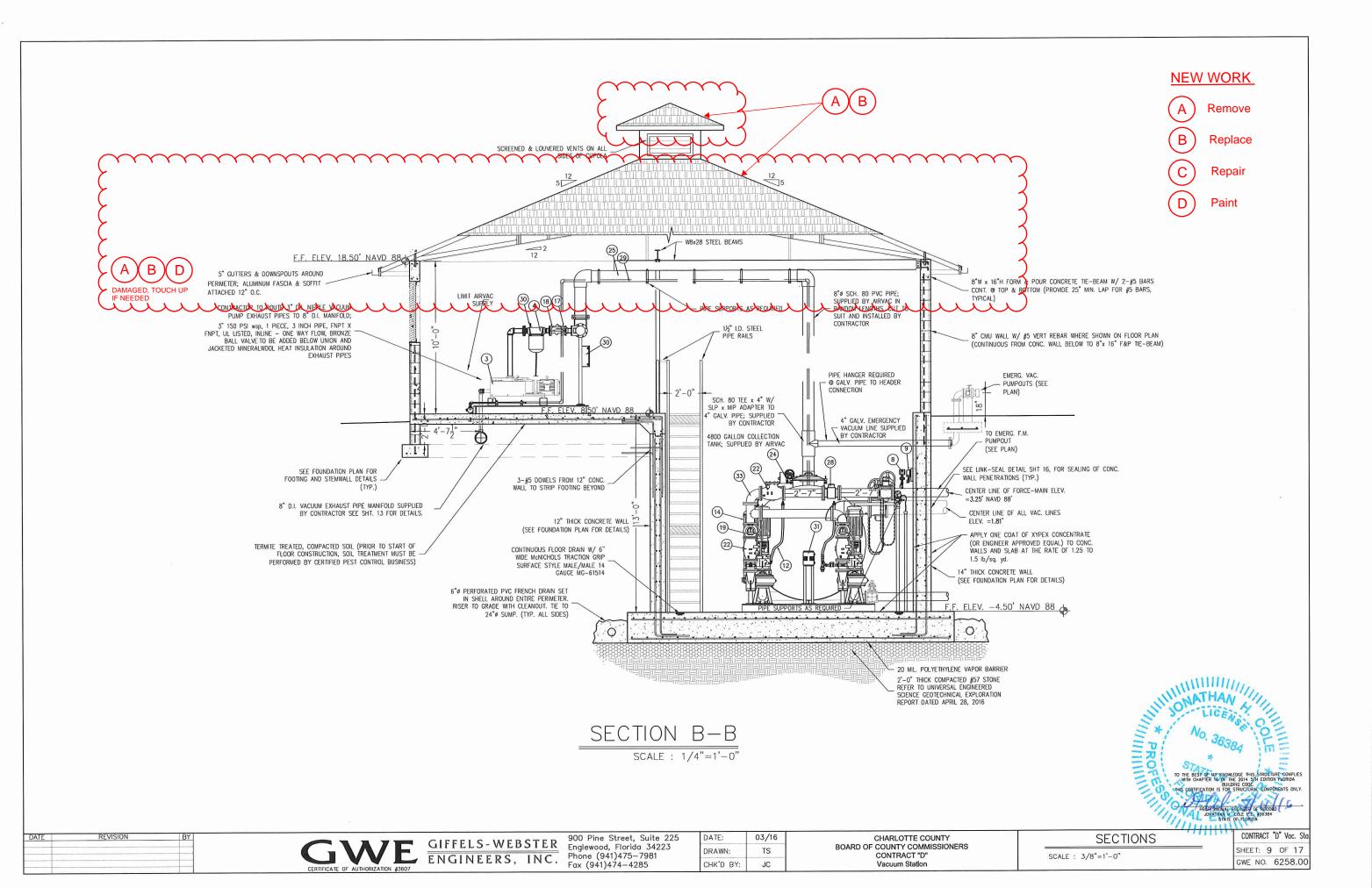
GIFFELS-WEBSTER Pool Pine Street, Suite 223 Englewood, Florida 34223 Phone (941)475–7981 Fax (941)474–4285

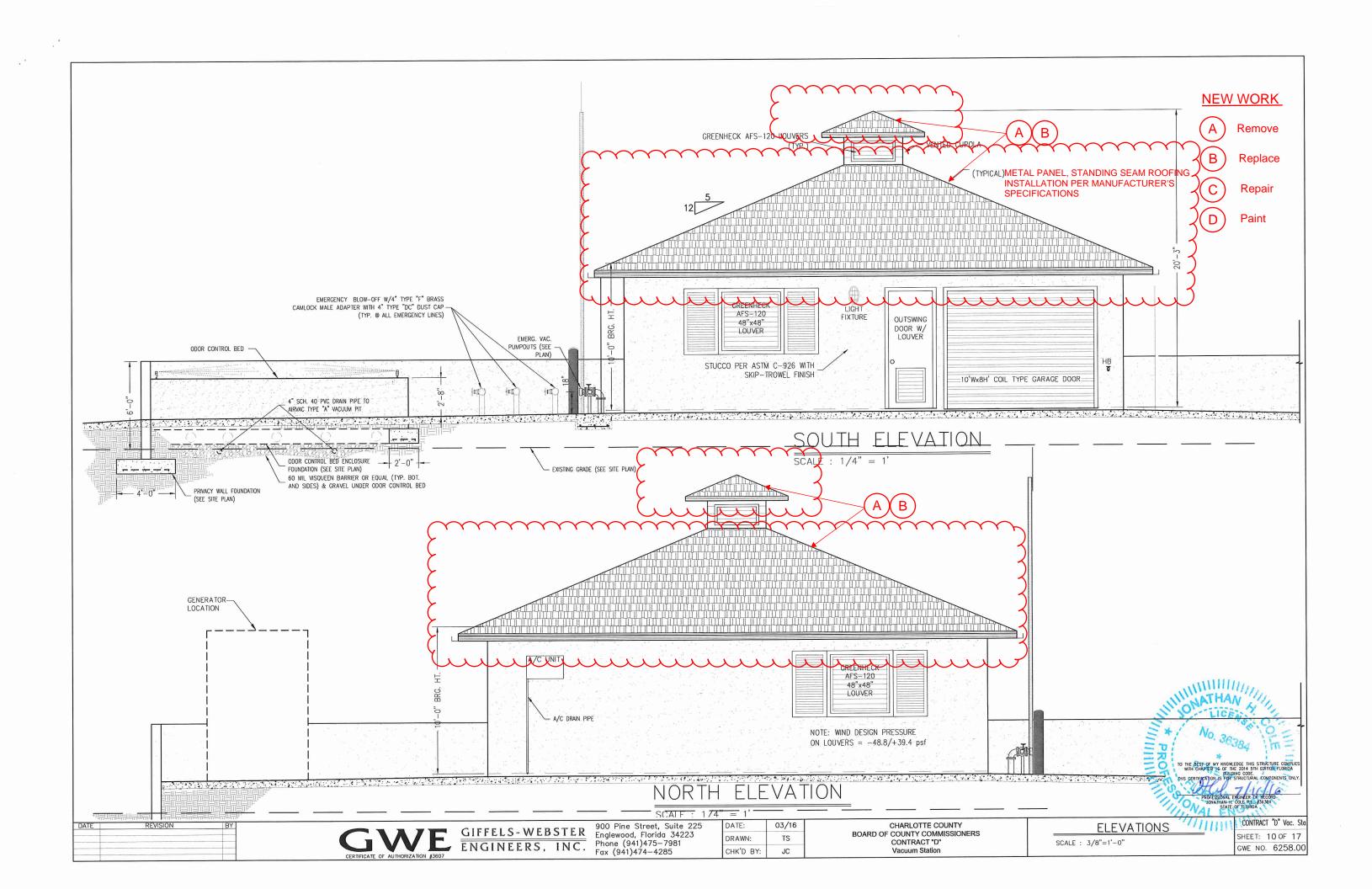
03/16 DRAWN: TS CHK'D BY: JC

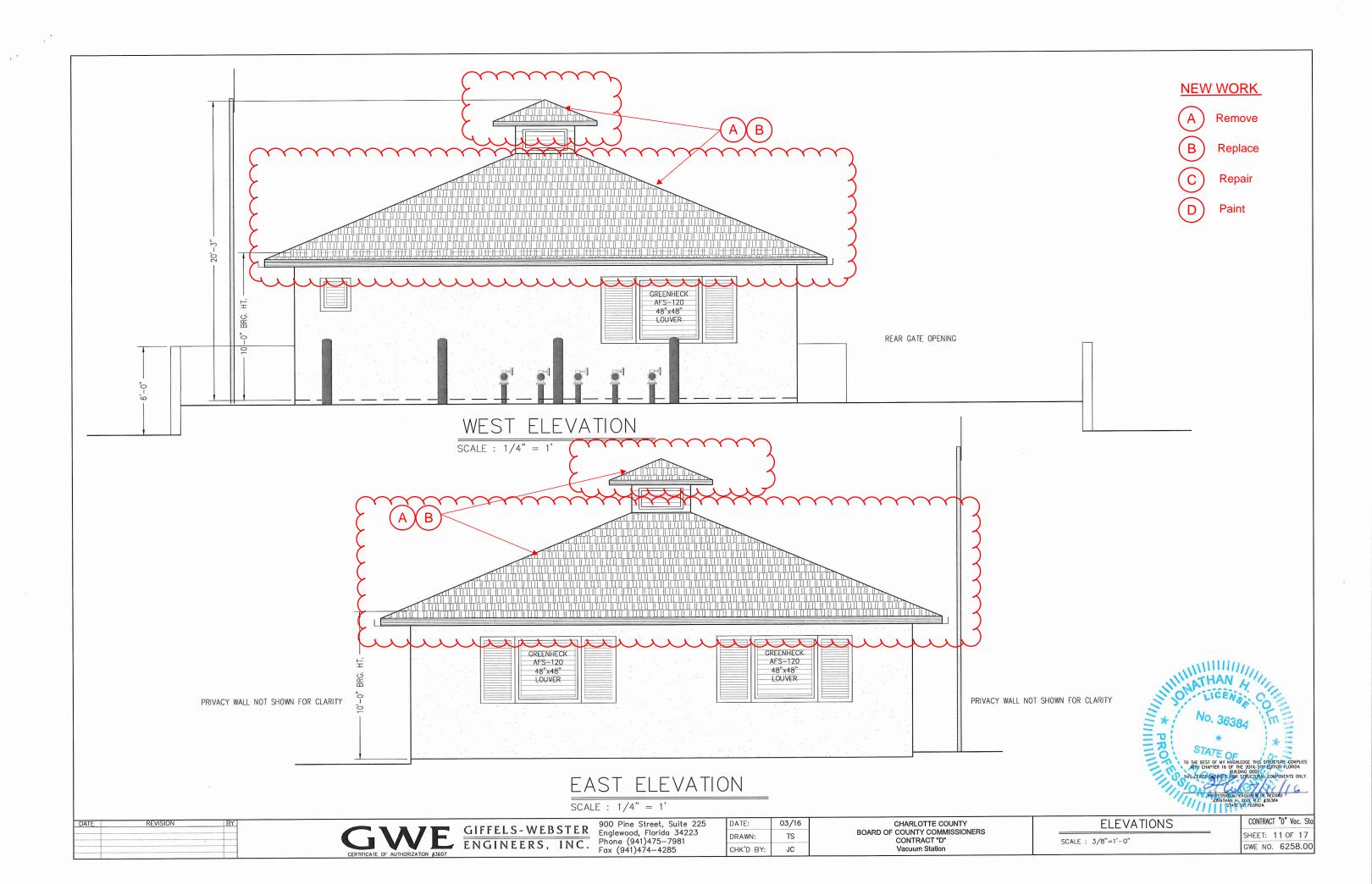
CHARLOTTE COUNTY BOARD OF COUNTY COMMISSIONERS CONTRACT "D" Vacuum Station

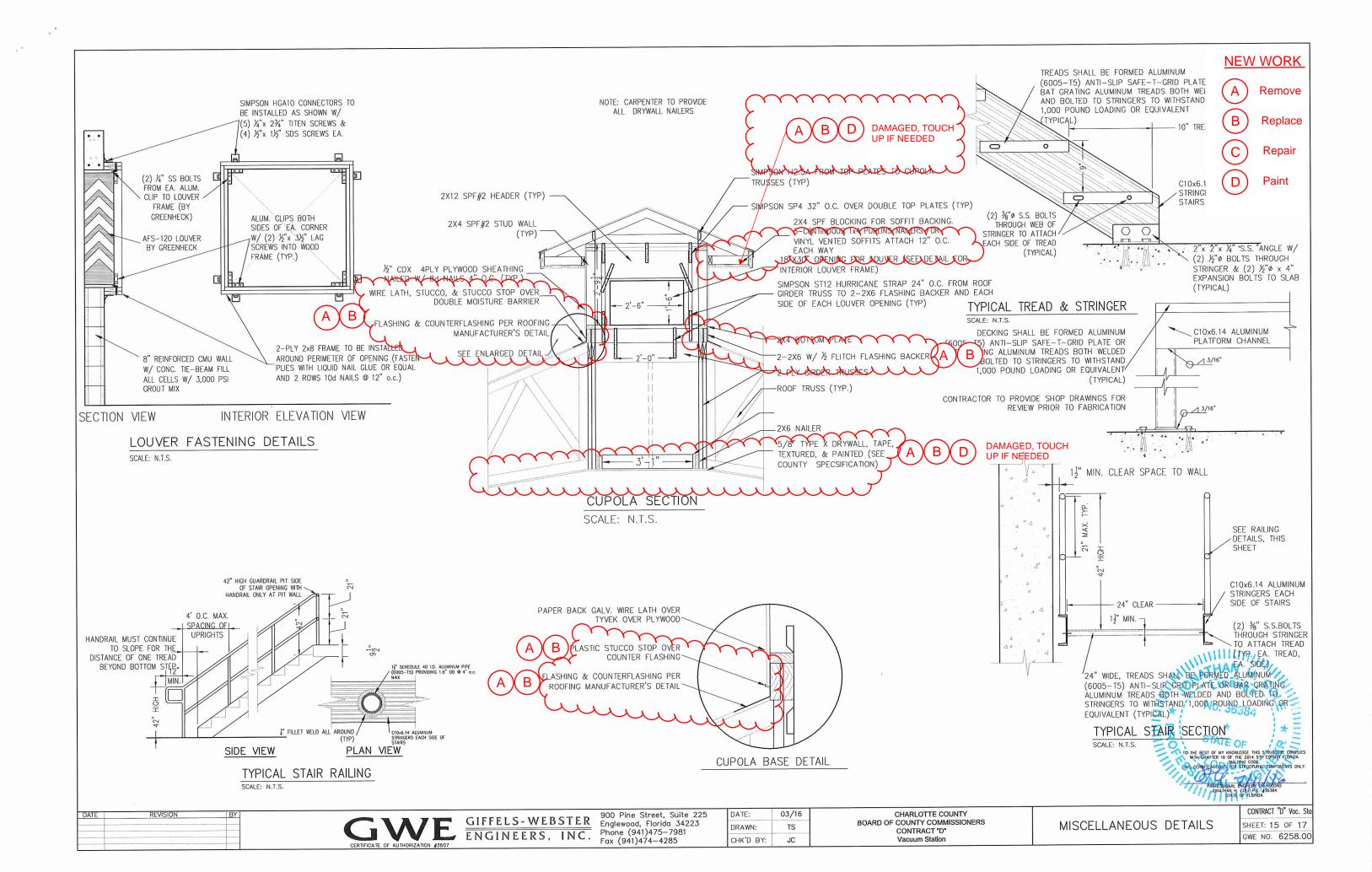
SECTIONS

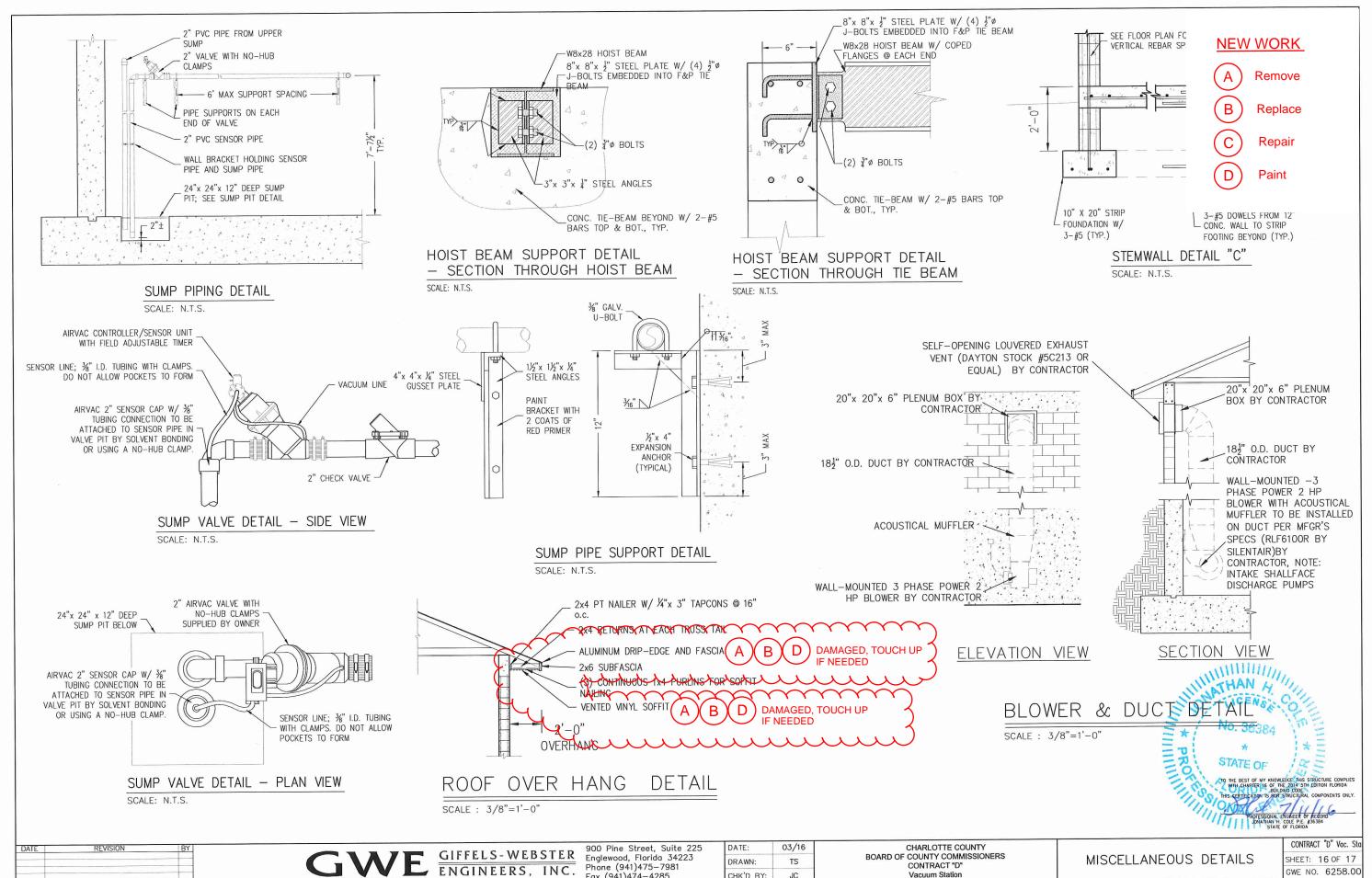
SHEET: 8 OF 17 GWE NO. 6258.00









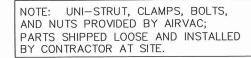


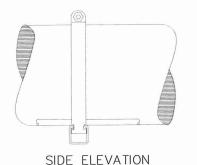
TS JC

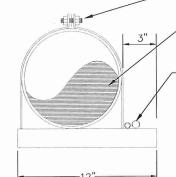
CHK'D BY:

CONTRACT "D" Vacuum Station

GWE NO. 6258.00





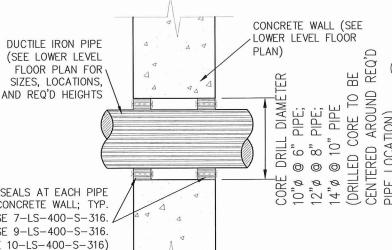


CLAMP SUPPORTS AT 4'-0" O.C. MAX.

8" PVC VACUUM **HEADER**

CONDUITS- RUN PARELLEL WITH HORIZONTAL SECTIONS OF VACUUM HEADER

> (2) LINK-SEAL MODULAR SEALS AT EACH PIPE PÉNETRATION THROUGH CONCRETE WALL; TYP. (AT 6" PIPE, USE 7-LS-400-S-316. AT 8" PIPE, USE 9-LS-400-S-316. AT 10" PIPE, USE 10-LS-400-S-316) INSTALL SEALS PER MANUFACTURER'S **SPECIFICATIONS**



NOTE: GAUGES TO BE INSTALLED 60" FROM FROM PIT FLOOR

CONTRACTOR TO DRILL/TAP INCOMING VACUUM LINES FOR 1/4" PIPE THREADS.

- 1) 0-30"HG VACUUM GAUGE MOUNTED TO TANK (TYP. OF 4)
- (1A) MERIT 1/2" S.S. BALL VALVE
- (1B) 1/2" MPT X 3/8" BARB ADAPTER
- (1C) 3/8" DIA. FLEX TUBING X 20'
- (1D) 1/2" X 1" S.S. NIPPLE
- (1E) 1/2" 90° S.S. ELBOW
- (1F) 1/4" MPT X 3/8" BARB ADAPTER

UNI-STRUT CLAMP DETAIL

GENERAL NOTES:

DESIGN CRITERIA:

Florida Building Code, 2023 8th Edition ASCE 7-22

> Wind Velocity = 162 M.P.H. Internal Pressure Coefficient = ± 0.18 (Enclosed Building) Category III Building Exposure B

poment & cladding ASD Loads based on a loaded area 10 sf or less and a wind directionality factor of 0.85 are as

SCALK: NT.S.

-36.3/+19.3-81.7/+19.3 Zone -112.9/+19.37one -36.3/+33.5Zone -44.8/+33.5Zone

If a specific component has a tributary area larger than 10 sf and requires a reduced component & cladding load, ths specifications & dimensions of the product shall be submitted to the Engineer of Record for wind analysis.

Live Loads - in accordance with FBC 2004, Table 1607 unless noted.

> Floors, Decks, & Stairs: 100 psf

GENERAL:

CONSTRUCTION:

- Unless noted otherwise, all wood construction shall meet exceed requirements of Chapter 23, FBC. Table 2304.9.1 shall be used as a minimum for all nailing schedules. Roof, wall, & floor diaphragms shall be as follows unless noted otherwise:
- -Unblocked @ roof: 4" @ edges/ 6" @ intermediate supports
- -Min. $\frac{15}{32}$ CDX 4-ply plywood shall be used for roof diaphragm w/ 8d ringshank nails (0.131"ø shank)
- Pre-manufactured straps, hangers, and clips shall be installed according to manufacturer's recommendations as required to supply desired performance.
- Due to the nature of this construction the Engineer of Record shall be given the opportunity to re-evaluate these plans and specifications as additional information becomes available or unforeseen circumstances arise.
- 4. This structure has been designed to be self supporting and stable after the building is complete. It is the responsibility of the contractor to determine suitable sequencing, means and methods of construction, including, but not limited to the addition of necessary shoring, tie downs, temporary bracing, etc.

SOIL COMPACTION:

Top soil shall be removed to a minimum depth of one foot over the entire building area and five feet beyond building lines. These areas should be cleared and grubbed of any vegetation. The exposed surface should than be compacted to a depth of (1) below the cleared and grubbed surface to a minimum 98% of the standard or modified proctor density as determined in accordance with ASTM D—698. After densification of natural soils, fill material to finished grade shall be placed with a maximum lift of 6" and compacted to a minimum 98% of the standard or modified proctor density. Fill material shall be clean to slightly silty fine sand free of organic material

SUBMITTALS:

- All construction shall meet requirements of all Local and State Building Codes.
- Engineer of Record shall be notified of any deviation to this plan during construction.
- Contractor shall retain the services of a certified material testing laboratory to conduct all required concrete & soils compaction testing. Results of all tests shall be submitted to the Engineer of Record for review.

MATERIALS:

- Contractor shall submit cut sheets and erection drawings for manufactured structural components (including concrete piles) to Engineer of Record for review.
- 2. Contractor shall verify all dimensions and conditions in the field as work progresses. All discrepancies and deviations from the plans shall be reported to the Engineer of Record.
- 3. All structural changes shall be signed & sealed by the Engineer of Record & re-submitted to the Building Department prior to installation.

PREFABRICATED WOOD TRUSSES.
Truss components shall be designed by others to withstand the wind loads for Components & Cladding as determined by ASCE 7-10, Chapter 6. Complete designs of each truss (profiles) and the truss layout plan shall be submitted to the Engineer of Record for review. Shop drawings shall bear the signature & seal of the Florida Registered Professional Engineer responsible for the design

Truss reactions & uplift on the host structure shall be determined based on appropriate live & dead loads and the Main Wind Force Resistance System criteria of ASCE 7-10. Net uplift forces shall be determined using the actual available dead load. ASCE 7-10 method of wind analysis shall be noted on the truss designs and the layout.

LINK-SEAL DETAIL

MATERIALS (Cont.):

Provide mix designed by a recognized testing laboratory to achieve a strength at 28 days as listed below with a plastic and workable

5000 psi for all below-grade concrete pit walls and pit slabs 3000 psi or stronger is acceptable for all other structural components (slabs, monolithic footings, tie-beams, etc.)

Materials used to produce concrete and admixtures for concrete shall comply with ACI 318. Concrete shall comply with all requirements of ASTM C 150, ASTM C 595, or ASTM C 845. Concrete shall comply with all the requirements of ASTM Standard C94—74A for measuring, mixing, transporting, etc. Concrete tickets shall be time stamped when concrete is batched, the maximum time allowed from the time the water is added until it is deposited in its final position shall not exceed one and one half $(1\frac{1}{2})$ hours. If for any reason there is a longer delay than that stated above, the concrete shall be discarded. It shall be the responsibility of the testing lab to notify the owner's representative and the contractor of any non-compliance with the above.
Concrete testing to be paid for by the contractor. Admixtures may
be used only with the approval of the engineer. During hot
weather, proper attention shall be given to the ingredients, production methods, handling, placing, protection and curing to prevent excessive concrete temperatures or water evaporation that may impair required strength or serviceability of the member or structure as per 1906.5 and 1906.7 of the Florida Building Code.

All Masonry work shall be done in accordance with "Building Code Requirements for Masonry Structures (ACI 530)" & "Specifications for Masonry Structures (ACI 530.1)"

- Concrete masonry units shall be Grade "N" Hollow Load bearing Units, conforming to ASTM C-90 with a minimum compressive strength (f'm) of 1500 psi.
- Mortar: Type M or S and shall conform to ASTM C-270.
- Grout or pea-gravel concrete with an ultimate compressive strength of 3000 psi at 28 days, except for those locations as marked or noted on the structural drawings. Corefill mix shall
- Air-Entraining mixtures or hydrated lime containing air-entraining mixtures are prohibited because such admixtures will reduce the shear, tensile and compressive strength of the Calcium chloride is not permitted in mortar or grout in. masonry. Calcium chloride is not permitted in mortar or grout in which reinforcement, metal ties, or anchors are embedded because of excessive corrosion

TYPICAL VACUUM LINE GAUGE PIPING DETAIL

MATERIALS (Cont.):

METAL:
1. All steel plates, bolts, washers, nuts, fasteners, hangers,
"T MAY" (Salt air exposure) advanta straps and clips shall be "Z-MAX" (Salt air exposure) galvanized or stainless steel - (Simpson Products or equal).

- Steel plates and rolled steel members shall conform to ASTM A36 unless noted otherwise. Bolts, nuts and washers shall conform to ASTM A307 unless noted otherwise.
- 3. Lag bolts, nails, screws, hangers, straps, and clips shall be fabricated from appropriate materials and H.D.G. (Hot-dipped Galvanized) to meet conditions shown.
- 4. All handrails, guardrails and steel framing components (not including walking surfaces) shall be painted with rust—proof primer and shall be finished with safety yellow paint.

Glue used in the field for assembling wood products shall be waterproof exterior grade equal to or better than Liquid Nails.

EXTERIOR DOORS & LOUVERS:

All exterior windows, louvers & doors are required to be tested in accordance with ANSI/AMMA/NWWDA 101/IS2 standard and bear an AMMA or WDMA label identifying the manufacturer, performance characteristics, and approved product testing entity.

REINFORCING STEEL:

Reinforcing shall be ASTM A615 Grade 60, free from oil, scale and rust, and placed in accordance with the typical bending diagram and placing details and ACI 318 Standards and Specifications. Reinforcement shall be deformed reinforcement, except that plain reinforcement shall be permitted for spirals or tendons

GVE GIFFELS-WEBSTER ENGINEERS, INC. 900 Pine Street, Suite 223 Phone (941)475–7981 Fax (941)474–4285

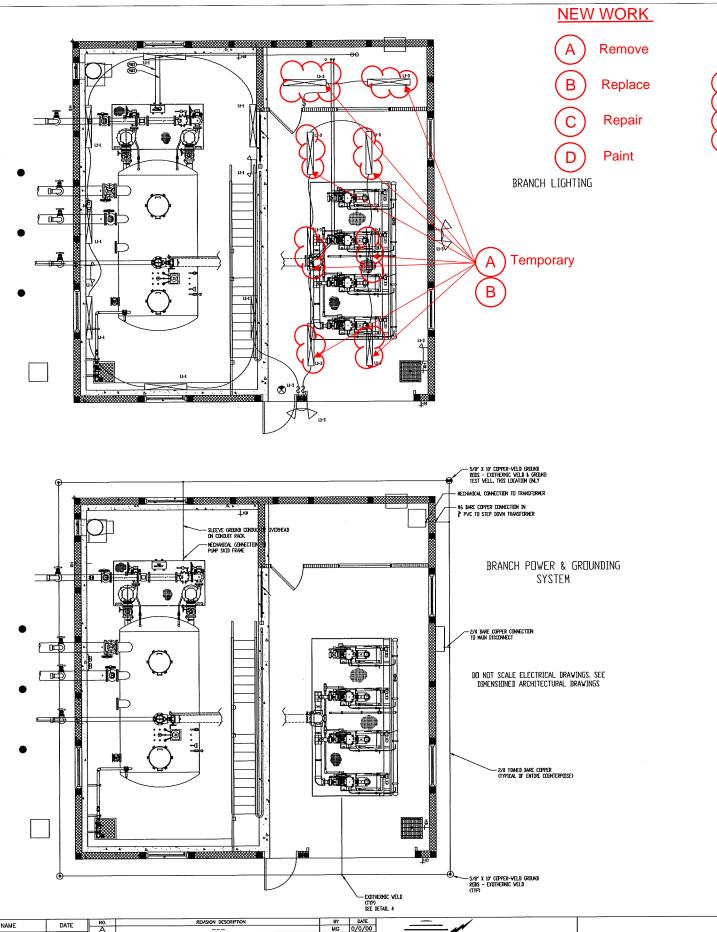
900 Pine Street, Suite 225

DATE: 03/16 DRAWN: TS CHK'D BY: JC

CHARLOTTE COUNTY BOARD OF COUNTY COMMISSIONERS CONTRACT "D" Vacuum Station

MISCELLANEOUS DETAILS

CONTRACT "D" Vac. Sta SHFFT: 17 OF 17 GWE NO. 6258.00



MG

NAME

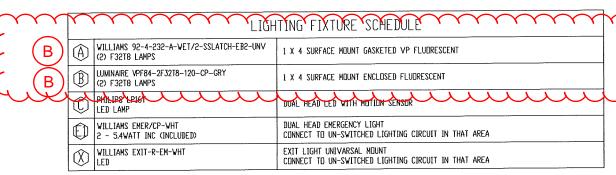
S: FILE LOCATION

6/15/2016

DATE

6/15/2016

1/8" = 1'-0" (ARCH-D 24x36)



BRANCH LIGHTING AND POWER GENERAL NOTES:

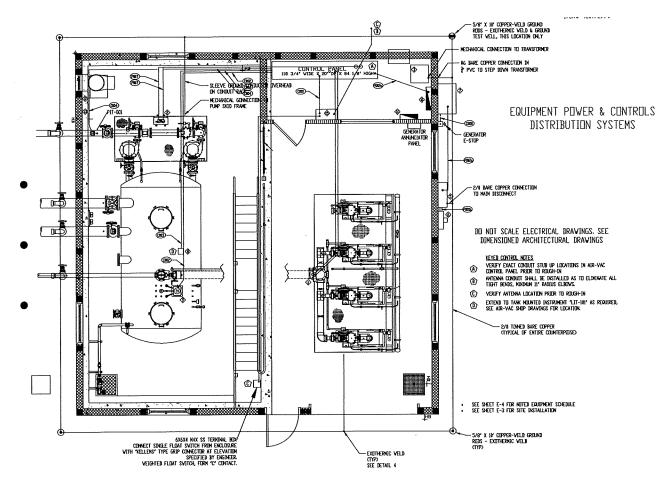
- 1. ALL EXPOSED CONDUIT SHALL BE RIGID ALUMINUM, BELOW GRADE CONDUIT SHALL BE
- 2. MC CABLE PERMISSIBLE FOR CONCEALED FIXTURE CONNECTION ONLY
- 3. ALL POWER CONDUCTORS SHALL BE THHN/THWN-2 COPPER
- 4, MINIMUM BRANCH POWER CONDUCTOR #12
- 5. MINIMUM INDOOR BRANCH LIGHTING AND RECEPTACLE CONDUIT 发
- 6 DUPLEX RECEPTACLES SHALL BE 20A SPECIFICATION GRADE (LEVITON 536) 7. LIGHTING SWITCHES SHALL BE 20A SPECIFICATION GRADE (LEVITON 1221)
- NB. CEILING FLUORESCENT TO BE FASTENED TO DRYWALL WITH 36' X 3' EXPANDING TOGGLE B BOLTS
 - LEEVE ANCHORS. 2. STAINAES & SLEEVE ANCHORS. ASTENBOL WITH V. OX STAINAES & SLEEVE ANCHORS. 10. EXIT & EMERGENCY LIGHTING TO BE CONNECTED TO THE UN-SWITCHED LIGHTING CIRCUIT
 - IN THE AREA WHERE INSTALLED
 - 11. VERIFY LOCATION AND CIRCUIT REQUIREMENTS FOR WALL MOUNTED ELECTRICAL ROOM AC
 - 12. SEE SHEET E-3 FOR NOTED EQUIPMENT SCHEDULE
 - 13. TAP-CON TYPE ANCHORS WILL NOT BE PERMITTED FOR ATTACHING PANELS TO EXTERIOR WALLS.

	CB	LOAD	CKT	PHAS	E LOAD (V.	A)	CKT	LOAD	CB	
	SIZE	(VA)	#	"A"	"B"	"C"	#	(VA)	SIZE	
LOWER LEVEL LIGHTING	20	1140	1	4020			2	2880	30	A/C UNI
UPPER LEVEL LIGHTING	20	1540	3		4420		4	2880		EVILLIOT 5
CUPOLA FAN	20	984	5			1704	6	720	20	EXHAUST FA
SPACE			7	720			8	720		
BRANCH RECEPTACLE	20	1500	9		2220	5280	10	720 4560	60	GENERATOR PANEL "GEN-
BRANCH RECEPTACLE	20	720	11	5760		3280	14	4560	00	GENERATOR PANEL GEN-
INDOOR LIGHTING	20 20	1200 1200	15	3760	2700		16	1500	20	BRANCH RECEPTACL
DFS CONTROLLER SUMP PUMP J—BOX	20	1500	17		2700	3000	18	1500	20	SPAR
20Wb bowb 1-Box	20	1300	19	0	ļ	3000	20	1500		
			21		0		22			
			23		1	0	24			
					TOTALS					
				10500.00	9340.00	9984.00				
CONNECTED AN	IPS= 82.79			87.50	77.83	83.20				
CONNECTED K	VA= 29.82									
	r		-			1=				Terenen computatore
	AGE 208Y/12			NS RATING		AMP	XX		#1	FEEDER CONDUCTORS
	ING SURFACE	1		KER RATING		AMP		MLO	#1	NEUTRAL CONDUCTORS GROUNDING CONDUCTOR
ENCLOS	ure <u>n1</u>		FAUL	_T_CURREN	10K	AIC			#0	TRECOMBING COMPOCIOE

CHARLOTTE COUNTY GOVERNMENT SPRING LAKE CONTRACT D VACUUM STATION

FLOOR PLAN LIGHTING - BRANCH POWER - GROUNDING

000000 6/15/2016 00000 E-1



						CONDUIT AND CONDUCTOR	SCHEDULE		
CONDU	JIT		CONDUC	TOR		DESCRIPTION			
DESIGNATION	SIZE	TYPE	QTY AVG	INSUL TYPE	ATION VOLTS	FROM	TO	NOTES	
P-001a	3'	PVC-80 AL	3-350; 1-250N	THEN	600	UTILITY TRANSFORMER	NETER		
P-001b	3'	AL.	3-350; 1-250N	THIN	600	HETER	MAIN DISCONNECT		
P-002a	3′	PVC-80 AL	3-350; 1-2/0N; 1-1/0 GND.	THIN	600	MAIN DISCONNECT	transfer svitch		
P-0026	3,	PVC-80 AL	3-350; 1-2/0H; 1-1/0 GN.	THIN	600	GENERATOR	transfer svitch		
P-002c	3,	PVC-80 AL	3-350; 1-2/0N; 1-1/0 GND	THIN	600	transfer svitch	PANEL HDP		
P-003	3,	AL	3-250j (-#4 GND	THEN	600	PANEL - HDP	MAIN PUMP CONTROL PANEL	VERFY CONTROL PANEL FEEDER TERMONTON POINT PREIR TO ROUGH-IN	
P-004	1'	FHC	3-86; 1-88 GND.	THEN	600	PANEL - HOP	Transformer T-1		
P-005	15'	FHC	3-81; 1-81N 1-86 GND	THEN	600	TRANSFORMER T-1	PANEL LI		
P-006	(5)	AL	6-#10; 1-#10 GHD	THEN	600	NAIN PUMP CONTROL PANEL	VACUUM PUMP JUNCTION BOX	ONE CONSULT FOR TWO PUMPS, BO NOT EXCEED 902 DEPATING FACTOR	
P-007	(2) 1.5°	AL	3-84; 4-814; 1-86 GND	THEN	600	HAIN PUMP CONTROL PANEL	SEVAGE PUMP DISCENHECT ENCLOSURE	DNE CONSULT FOR EACH PUMP, 814 CONSUCTORS - MOISTURE SONSUR & THERMAL SONSUR	
P-008a	.75*	AL	1-#12; 1-#12N 1-#12 GND.	THIN	600	PANEL - LI	CUPULA EXHAUST FAN	RELITE FEEDERS THROUGH CONTACTOR	
P-008b	.75*	AL.	3-#12; 1-#12N 1-#12 GND.	THEN	600	PANEL - LI	LOWER LEVEL EXHAUST FAN	REUTE FEEDERS THROUGH CONTACTOR NEUTRAL FER COIL OPERATION	
P-009	1'	PVC-80 AL	2-16; 1-18 N; 1-18 GND	THEN	600	PANEL LI	GENERATOR ENCLOSURE LIGAD CENTER	CONFIRM REGULER/DENTS VITH GENERATOR MANUFACTURES	
P-010	.75*	AL	1-#12j 1-#12 Nj 1-#12 GND	THN	600	PANEL - LI	BRANCH LOADS	SEE SHEET E-L AND E-2 FOR LUCATIONS	
P-011	.75*	AL.	2-\$10; 1-\$10 GND	THIN	600	PANEL - LI	VALL AC	VERSEY LOCATION OF UNIT PRIOR TO ROUGH-IN	
P-012	.75*	AL	1-#12; 1-#12 N; 1-#12 QND	THEN	600	PANEL - L1	Branch Lighting	NC CABLE ALLUVED FOR BRANCH EXHTING CONCEALE VHEP'S ONLY	
P-013	(2) - 15'	AL.	3-#1; 4-#14; 1-#6 GND	THEN	600	SEVAGE PUMP DISCONNECT ENCLOSURE	sevage punp		
P-014	.75*	AL	1-#12; 1-#12 N; 1-#12 GND	THIN	600	PANEL - LI	DF\$ CONTROLLER		
C-001	.75'	AL	1-CAT-5e			NAIN PUMP CONTROL PANEL	DF\$ CONTROLLER	AURYACAPLO INTERFACE CARLE	
C-002	.75*	AL	9-#14; 1-#14 GND.	THIN	600	NAIN PUMP CONTROL PANEL	VACUUM TANK JUNCTION BOX	BUNL GROUNDS CONDUCTORS, ONE FOR ISOLATION VALVE POWER, ONE FOR PROJECS	
C-003	.75*	AL	1-#16TSP		600	HAIN PUMP CONTROL PANEL	LIT-001 VACUUM TAKK LEVEL Instruments	ш-юя	
C-004	ľ	AL	1-#16TSP	THEN	600	HAIN PUMP CONTROL PANEL	PIT-001 FURCE HAIN PRESSURE TRANSMITTER		
C-005	.75*	AL	7-814; 1-812 GND.	THIN	600	HAIN PUMP CONTROL PANEL	AUTOMATIC TRANSFER SWITCH		
C-006	ľ	PVC-80 AL	8-814; 1-818TSP; 1-812 GND.	THIN	600	GENERATUR CUNTROL PANEL	GENERATER ANNUNCIATER	ANALOG AND INSCRETE SIGNAL CONFIRM CABLE REGULERANT VITH GENERATOR PROVIDER	
C-007	ľ	PVC-80 AL	8-#14; 1-#12 GND.	THEN	600	GENERATOR CONTROL PANEL	TRANSFER SWITCH	BISCRETE SERVAL, CONFIRM CABLE RESURREMENT VIT GENERATUR PROVIDER	
C-008	.75*	AL	2-814; I-812 GND.	THEN	600	transfer svitch	E-STOP SWITCH		
C-009	.75*	AL	2-#14; I-#12 GND.	THIN	600	DFS CONTROLLER	LOWER LEVEL FLOAT SWITCH "LEVEL INDICATOR"	CONFERN FLOAT SYSTEM ELEVATION WITH ENGINEES PRIER TO DISTALLATION	
C-010	.5'	AL	2-814	THIN	600	DFS CONTROLLER	DOOR INTRUSION SWITCH	L-V M-D BOOR CONTACT FROM RTU SVITCH RATEB 36V, 2594A	
C-011	125'	PVC-80 AL	PULL STRING			DFS CONTROLLER	antenna location	USE LUNG RANGES SVEEPS, 11' RANGES KONDOM	
G-001	1'	PVC-80	1-112 GND.	BARE Copper	NA	MAIN SERVICE GROUNDING COUNTERPOISE	HAIN DISCONNECT		
G-002	.75′	PVC-80	1-86 GND.	BARE COPPER	NA	MAIN SERVICE GROUNDING COUNTERPOISE	Transformer T-1		

SERVICE DISTRIBUTION AND EQUIPMENT CONNECTION GENERAL NOTES: 1. ALL ABOVE GRADE CONDUIT SHALL BE RIGID ALUMINUM

- 2. ALL BELOV GRADE CONDUIT SHALL BE PVC-80
 3. ALL POWER CONDUCTORS SHALL BE THHN/THWN-2 COPPER UNLESS OTHERWISE NOTED
- 4. ALL EXTERIOR FASTENERS TO BE STAINLESS STEEL
- 5. ALL EXTERIOR MOUNTING CHANNEL SHALL BE ALUMINUM
- 6. ALL BELOW GRADE GROUNDING CONNECTIONS TO BE EXOTHERMIC WELDS
- 7. MINIMUM BRANCH POWER CONDUCTOR #12, MINIMUM DISCRETE CONTROL CONDUCTOR #14
- 8. ANALOG SIGNAL CABLE #16TSP BELDEN 8719 (OR EQUAL)
- 9. MINIMUM EQUIPMENT CONNECTION CONDUIT 34
- 10. FLEXIBLE CONDUIT SHALL BE LIQUID-TITE FLEXIBLE METAL TYPE-EF.

PROVIDE FOR INFORMATION

	NAME	DATE	NO.	REVISION DESCRIPTION	BY	DATE	/
	PAME	DAIL	Α		MG	0/0/00	
DESIGNED BY:	M.G.	6/15/2016					
CHECKED BY:	NAME	DATE	 			-	6244 Clark Center Ave. Unit-2 Sarasota, FL 34238 Phone 941,921,9067 Fax 941,921,9066
DRAWN BY:	M.G.	6/15/2016					www.bayareaelectrixtl.com EC13001351 EC0001556
SCALE:	1/8" = 1'-0" (ARCH	H−D 24×36)					- Electric, Inc.
FILE NAME:	S: FILE LOCATION						VEIECUIO, IIIO.

CHARLOTTE COUNTY GOVERNMENT SPRING LAKE CONTRACT D VACUUM STATION BUILDING DISTRIBUTION ELECTRICAL & CONTROLS

DWG DATE: 6/15/2016 00000

ELECTRICAL SPECIFICATIONS

SCOPE

The scope of the work covered herein consists of furnishing all labor, materials, necessary equipment and services to complete the Electrical Work and related work in full accondance as indicated on the drawings, as specified herein or both and subject to the terms and conditions of the Contract.

All Items noted herein, shown by the electrical plans, or reasonably to be interpreted from the plans necessary to complete the electrical system shall be provided and installed monate the work of this section, whather same are specifically mentioned herein or not.

CODES, RULES, PERMITS, FEES

The Contractor is generally responsible to insure all work, both old and new, complies with the NEC and any applicable local and state codes and ordinances.

DRAWINGS

Drawings are diagrammatic and indicate the general arrangement of systems and work included in the contract. Drawings are not to be scaled. The Architectural drawings and details shall be examined for exact location of fixtures and equipment. Any conflict shall be immediately brought to the attention of the Engineer before proceeding with the work.

SHIP BRANKINGS VVVV The contractor shall submit six (6) copies for approval of detailed shop drawings of all equipment and all material required to complete the project to the Engineer.

Materials or products specified herein and/or indicated on drawings by trade name, manufacturer's name or catalog numbershall be provided as specified.

COOPERATION WITH OTHER TRADES

The contractor shall give full cooperation to other trades and shall furnish in writing to the Contractor, with copies to the Engineer, any information necessary to permit the work of all trades to be installed satisfactorily and with the least possible interference or delay. Coordinate all conduit runs and equipment with other trades. Verify nameplate electrical data of actual equipment furnished by others before beginning installation.

CUTTING, PATCHING, AND FINISHING

The Contractor shall do all cutting, drilling, etc. regulred for work under this section of the specifications, inside and outside the building, including preparing of hished surfaces, all required shoring and bracing, and all protection for safety of persons and property.

EXCAVATING AND BACK FILLING

The contractor shall do all trench and pit excavating and backfilling required for work under this section of the specifications, inside and outside the building, including repairing of finished surfaces, all required shoring, bracing, pumping, and all protection for safety of persons and

MATERIAL AND VORKMANSHIP

All materials and apparatus required for the work shall be new unless indicated otherwise on the plans.

Contractor shall provide and install all electrical as shown, verifying all mounting heights and exact locations of all wall-mounted electrical devices with architect prior to rough-in.

rough-in.

Connections and junction boxes to equipment are diagramma is Verify exact location of connection to specific equipment

PANEL BOARDS

Panels shall be as manufactured by Square D or equal of equivalent of sizes, ratings, and requirements shown on the plans. 480v Panels shall be of dead front construction. All bussing shall be copper. Existing panels may be reused if in good condition.

Minimum width of 480v panels shall be 20°. 240v Panels shall be of dead front construction . All bussing shall be copper Existing panels may be reused if in

Minimum width of 240v panels shall be 14%.

New circuit breakers shall be 20A minimum. Multi-pole breakers shall have a single handle to trip all poles at one AIC rating of breakers shall match AIC rating of panel. A laminated black plastic with white lettering plastic naneplate with the Identification number as shown on the punel schedule shall be mounted on the outside of the door with sheet metal screws. Nameplate size shall be 3' wide x 1-1/3' high with 1/2' high engraving. Provide a completed circuit directory, typed and mounted in a clear plastic sleeve, on interior of the panel door.

Provide a complete grounding network for the entire electrical system to comply with NEC requirements as indicated on drawings. All conduits shall have a ground wire installed. Conduit shall not be used as a ground

DISCONNECT SWITCHES

Equipment disconnect switches shall be Square D, G.E., ITE or equivalent heavy duty of the type and ratings shown on the mans Puses show be provided of the appropriate type and rating for the equipment to be served.

MISCELLANEOUS EQUIPMENT

- Switches All general use lighting (SPST toggle with or without pilot) switches to be rated 20A, 120-277V. as manufactured by Leviton, Lutron, P & S, or equivalent. Coordinate color with Owner/Architect.
- Receptacles All general use duplex receptacles to be rated 20A., 120V as manufactured by Leviton, Lutron, P & S, or equivalent. Coordinate color with Owner/Engineer.
- Power/lighting circuits All power/lighting circuits 100A or less shall be as indicated on the wire and conduit schedule. Other circuits shall be as shown on the plans.
- Homeruns All homeruns shall be a minimum of 3/4" conduit w/maximum 40% fill.
- Conductors All conductors shall be rated 600V, copper, type THW, THHN/THWN, XHHW. Wire/conduit sizing/fill is based upon type THW conductors, conductors of #12 AWG and arger shall be stranded.
- Timers A Tork #T920L shall be used for lighting control. Multiple units may be required for all controlled circuits shown on the plans.
- Photo Control A Tork #2100 shall be mounted where shown on the drawings.
- Lighting fixtures Lighting fixtures shall be as indicated on the fixture schedule or approved equals.

Chiput it below Grade & conceated tocations shalt be PVC SCH. 60. Exposed interior and exterior locations shall be aluminum. Aluminum conduit in contact with concrete or earth shall have two coats of bitumastic to a point 6' above finished grade or concrete slab. Flexible connection to equipment shall be with liquid-tite flexible metal conduit. Liquid-tite flexible metal conduit sittings shall have insulated throats. Type M/C cable shall be permitted for lighting branch wiring only where concealed above hard ceiling & installation shall meet NEC-2008 Conduit entrance into enclosures shall be made by conduit hubs in order to maintain the NEMA integrity of the enclosure. Sizes indicated are minimums, larger sizes may be used to

14. EQUIPMENT FURNISHED BY OTHERS

facilitate wire pulls, etc.

Contractor shall provide all conduit, wire and disconnect switches to connect electrical equipment supplied by others which shall include both new and relocation of existing equipment. At first electrical gonnections are to be by contractor.

RECORD DRAWINGS

The Contractor shall keep accurate records of actual construction including device locations and conduit runs if different from the plans.

The Contractor shall provide the owner with a reproducible set in CAD format of plans depicting the complete electrical system as installed (as built drawings). The scale on these as built drawings shall be no smaller than the scale used on the original plans.

16. TESTING

15.

Ground system test shall be made and test report furnished to Function test shall be completed only after the engineer has

confirmed that the installation is complete.

17. FINAL ACCEPTANCE

After testing a final inspection shall be made by the Engineer and other authorized persons with the Contractor. Final acceptance of the project shall not prejudice the Dwner's right to require replacement and/or repair of any defective work or materials.

FIFCTRICAL SYMBOL LIST

		TOTTOTIC OTHER	
	ф	SIMPLEX RECEPTACLE 125V 20A	16' AFF OR AS NOTED
	Ф	DUPLEX RECEPTACLE 125V 20A	16' AFF OR AS NOTED
	₫	DUPLEX RECEPTACLE 125V 20A	44' AFF OR AS NOTED
	:#:	QUAD RECEPTACLE 125V 20A	16' AFF DR AS
	:#:	QUAD RECEPTACLE 125V 20A	44' AFF OR AS NOTED
	(4)	MULTI POLE RECEPTACLE	16' AFF OR AS NOTED
	•	DUPLEX RECEPTACLE 125V 20A	FLUSH WITH FLOOR
	b	DUPLEX RECEPTACLE 125V 20A (1/2 RECEPTACLE SVITCHED)	16' AFF OR AS NOTED
	B .	DUPLEX RECEPTACLE 125V 20A GROUND FAULT	16' AFF DR AS NOTED
	d	DUPLEX RECEPTACLE 125V 20A GROUND FAULT	44" AFF OR AS NOTED
	\$	SINGLE POLE SWITCH MTD. 48' AFF UNLESS OTHERWISE NOTED,	48' AFF DR AS NOTED
	\$ _{MS}	MOTOR DUTY AS REQUIRED. SINGLE PILE SWITCH MTD. 48' AFF UNLESS OTHERVISE NOTED,	48' AFF DR AS NOTED
	\$2	HOTION SENSOR 2-POLE SVITCH MOUNTED AT 48' OR AT EQUIPMENT	48" AFF DR AS
	\$3	THREE-WAY SWITCH MTD. 48' AFF	NOTED 48" AFF OR AS NOTED
	\$4	FOUR-WAY SWITCH HTD. 48' AFF	48' AFF OR AS
	IJ	JUNCTION BOX	48' AFF OR AS
	Ш	DISCONNECT	48' AFF OR AS NOTED
	0	RECESSED LIGHTING FIXTURE, SEE SCHEDULE FOR TYPE AND LAMP REQUIREM	
		SURFACE CEILING LIGHTING FIXTURE, SEE SCHEDULE FOR TYPE AND LAMP R	EQUIREMENTS
$\overline{}$	W C	SURFACE WALL LIGHTING FIXTURE, SEE SCHEDULE FOR MYPE AND LAMP RED	UIREMENTS
	⊠	SURFACE CEILING FLUORESCENT LIGHTING FIXTURE, SEE SCHEDULE FOR REQ	UIREMENTS
٨	ر 宊	RECESSED CEILING FLUORESCENT LIGHTING FIXTURE, SEE SCHEDULE FOR RE	QUIREMENTS , , , ,
	4_₽	EMERGENCY EGRESS LTG. MTD. 7'-6' AFF DR AS NOTED, V/ BATTERY BACKU	P
	8 ⊗	EXIT SIGN MTD. 7-6' AFF OR FROM CEILING, V/ BATTTERY BACKUP FACES AND ARROWS AS INDICATED	
	4₩	COMBO EXIT / EL MTD. 7-6' AFF OR FROM CEILING, W/ BATTTERY BACKUP FACES AND ARROWS AS INDICATED	



emma .

PANEL

EXHAUST FAN

BRANCH LIGHTING SWITCHED

BRANCH LIGHTING SWITCHED & UN-SWITCHED

BRANCH LIGHTING UN-SWITCHED

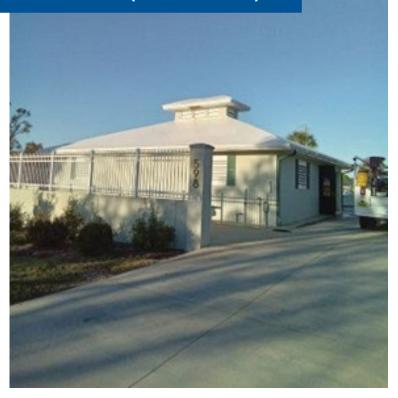
	NAME	DATE	NO.	REVISION DESCRIPTION	BY	DATE
	INOME	UATE	A		MG	0/0/00
DESIGNED BY:	M.G.	6/15/2016				
CHECKED BY:	NAME	DATE			-	
DRAWN BY:	M.G.	6/15/2016				
SCALE	NA					
FILE NAME:	S: FILE LOCATION					1







Site Inspection Report for Charlotte County – East Port Lift Station #59 Skylark Vac Station Florida Hurricane Ian (DR-4673-FL)





(2)

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station
Address: 391 Azalea Ave NW,

Port Charlotte, Florida 33952

No. Items: 39

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:00 2024

Group: Identification

Cause of Damage: N/A

GPS Lat/Long: 26.987535,

-82.112682

Component Description:

Site ID.



Created: Thu 22 Feb

08:01 2024

Group: Exterior - Roof **Cause of Damage:** High Winds

Component Description:

Roof damaged, resulting to water intrusion to interior. Temporary repair in place obscuring exact extent of damage and type of roofing. Per PoC, roofing is galvanized aluminium tiles with waterproofing membrane underneath.

44' x 36' footprint. 26' cap to base.

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station

391 Azalea Ave NW,

Port Charlotte, Florida 33952

No. Items: 39

Address:

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:02 2024

Group: Exterior - East

Cause of Damage: N/A

Component Description:

Overview Photo.



Created: Thu 22 Feb

08:07 2024

Group: Exterior - East **Cause of Damage:** High Winds

Component Description:

Missing decorative shutter.

14" x 48"

(6)

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station

391 Azalea Ave NW, Port Charlotte, Florida 33952

No. Items: 39

Address:

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb 08:08 2024

Group: Exterior - East **Cause of Damage:** High Winds

Component Description:

Refer to Photo (4).



Created: Thu 22 Feb

08:08 2024

Group: Exterior - East **Cause of Damage:** High Winds

Component Description:

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station
Address: 391 Azalea Ave NW,

391 Azalea Ave NW,
Port Charlotte, Florida 33952

No. Items: 39

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:02 2024

Group: Exterior - Roof **Cause of Damage:** High Winds

Component Description:

Missing/damaged soffit.

White aluminium. 2' W.

~ 5 LF



Created: Thu 22 Feb

08:03 2024

Group: Exterior -

South

Cause of Damage: N/A

Component Description:

Overview Photo.

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station

391 Azalea Ave NW, Port Charlotte, Florida 33952

No. Items: 39

Address:

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Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:04 2024

Group: Odor Control

Cause of Damage: N/A

Component Description:

Overview Photo.



Created: Thu 22 Feb

08:05 2024

Group: Odor Control

Cause of Damage: N/A

Component Description:

Overview Photo

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station

391 Azalea Ave NW,

Port Charlotte, Florida 33952

No. Items: 39

Address:

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Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:06 2024

Group:

Cause of Damage: N/A

Component Description:

Overview Photo



Created: Thu 22 Feb

08:12 2024

Group: Wall - South

Cause of Damage: N/A

Component Description:

Overview Photo

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station

391 Azalea Ave NW, Port Charlotte, Florida 33952

No. Items: 39

Address:

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Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:13 2024

Group: Wall - East

Cause of Damage: Wind Blown

Debris

Component Description:

Stucco cracking.

[4] cracks total – [2] on south wall and [2] on east wall.

41" H.

8" W block.



Created: Thu 22 Feb

08:14 2024

Group: Wall - South **Cause of Damage:** Wind Blown

Debris

Component Description:

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station

391 Azalea Ave NW,

Port Charlotte, Florida 33952

No. Items: 39

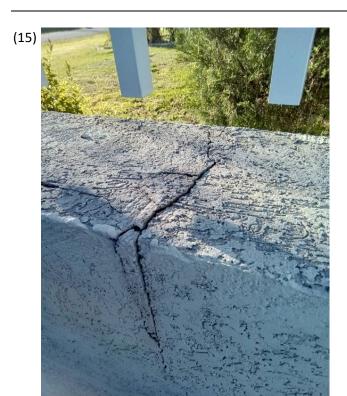
Address:

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:15 2024

Group: Wall - South

Cause of Damage: Wind Blown

Debris

Component Description:

Refer to Photo (13).



Created: Thu 22 Feb

08:04 2024

Group: Exterior -

West

Cause of Damage: N/A

Component Description:

Overview Photo.

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station

391 Azalea Ave NW, Port Charlotte, Florida 33952

No. Items: 39

Address:

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Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:05 2024

Group: Generator

Building

Cause of Damage: N/A

Component Description:

Overview Photo.



Created: Thu 22 Feb

08:09 2024

Group: Exterior -

North

Cause of Damage: N/A

Component Description:

Overview Photo.

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station

391 Azalea Ave NW,
Port Charlotte, Florida 33952

No. Items: 39

Address:

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Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:09 2024

Group: Wall - North **Cause of Damage:** High Winds

Component Description:

Damaged aluminium fence posts.

[3] posts. White aluminium. $3'' \times 3'' \times 4'$



Created: Thu 22 Feb

08:09 2024

Group: Wall - North **Cause of Damage:** High Winds

Component Description:

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station

391 Azalea Ave NW, Port Charlotte, Florida 33952

No. Items: 39

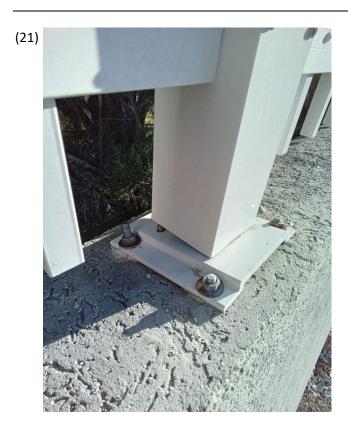
Address:

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Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:09 2024

Group: Wall - North **Cause of Damage:** High Winds

Component Description:

Refer to Photo (19).



Created: Thu 22 Feb

08:10 2024

Group: Wall - North **Cause of Damage:** High Winds

Component Description:

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station

#59 Skylark Vac Station 391 Azalea Ave NW, Port Charlotte, Florida 33952

No. Items: 39

Address:

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Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb 08:10 2024

Group: Wall - North **Cause of Damage:** High Winds

Component Description:

Refer to Photo (19).



Created: Thu 22 Feb

08:10 2024

Group: Wall - North **Cause of Damage:** High Winds

Component Description:

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station

391 Azalea Ave NW, Port Charlotte, Florida 33952

No. Items: 39

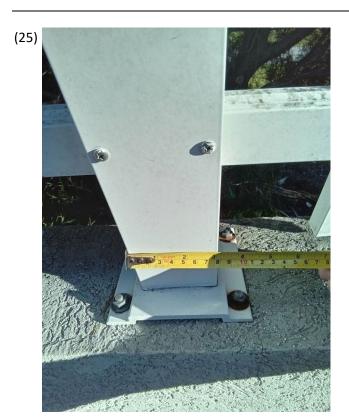
Address:

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:11 2024

Group: Wall - North **Cause of Damage:** High Winds

Component Description:

Refer to Photo (19).



Created: Thu 22 Feb

08:11 2024

Group: Wall - North **Cause of Damage:** High Winds

Component Description:

Created: Thu 22 Feb 08:00 2024 Location: East Port Lift Station #59 Skylark Vac Station Address:

391 Azalea Ave NW,

Port Charlotte, Florida 33952

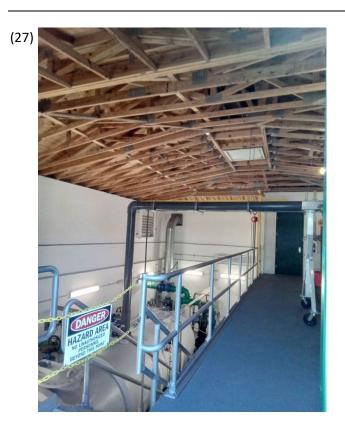
No. Items:

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:16 2024

Interior -Group:

Pump Room

Wind Driven **Cause of Damage:**

Rain

Component Description:

Drywall and insulation damaged throughout. Subsequently removed. No apparent permanent damage or mold to roof sheathing.

Drywall slopes upward. 43' x 35' footprint.



Created: Thu 22 Feb

08:16 2024

Group: Interior -

Pump Room

Cause of Damage: Wind Driven

Rain

Component Description:

Refer to Photo (27).

Address:

No. Items:

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station

391 Azalea Ave NW,

Port Charlotte, Florida 33952

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com

(29)



Created: Thu 22 Feb

08:16 2024

Group: Interior -

Pump Room

Cause of Damage: Wind Driven

Rain

Component Description:

Refer to Photo (27).



Created: Thu 22 Feb

08:17 2024

Group: Interior -

Pump Room

Cause of Damage: Wind Driven

Rain

Component Description:

Refer to Photo (27).

Dual pole fluorescent light fixtures damaged and replaced with temporary lighting.

[6] 4' fixtures.

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station

391 Azalea Ave NW, Port Charlotte, Florida 33952

No. Items: 39

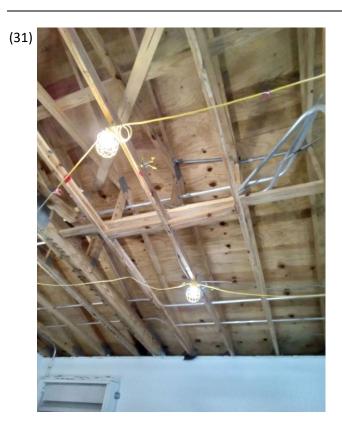
Address:

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:17 2024

Group: Interior -

Pump Room

Cause of Damage: Wind Driven

Rain

Component Description:

Refer to Photo (30).



Created: Thu 22 Feb

08:17 2024

Group: Interior -

Pump Room

Cause of Damage: Wind Driven

Rain

Component Description:

Refer to Photo (30).

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station

391 Azalea Ave NW, Port Charlotte, Florida 33952

No. Items: 39

Address:

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:18 2024

Group: Interior -

Pump Room

Cause of Damage: Wind Driven

Rain

Component Description:

Refer to Photo (30).



Created: Thu 22 Feb

08:18 2024

Group: Interior -

Pump Room

Cause of Damage: Wind Driven

Rain

Component Description:

Refer to Photo (27).

Visible remnant of insulation.

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station

#59 Skylark Vac Station 391 Azalea Ave NW, Port Charlotte, Florida 33952

No. Items: 39

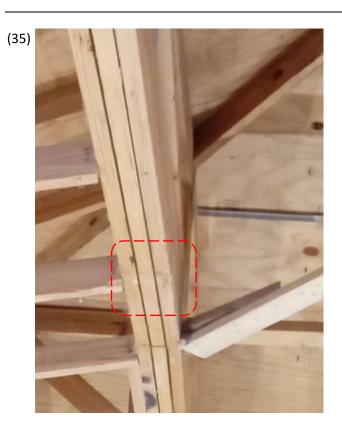
Address:

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:19 2024

Group: Interior -

Pump Room

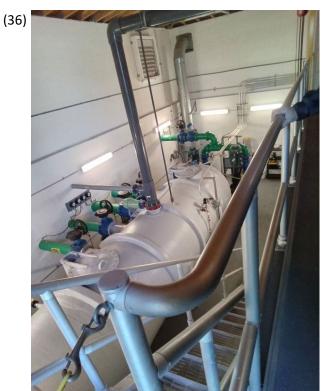
Cause of Damage: Wind Driven

Rain

Component Description:

Refer to Photo (27).

Visible remanent of insulation.



Created: Thu 22 Feb

08:19 2024

Group: Interior -

Pump Room

Cause of Damage: N/A

Component Description:

Overview Photo.

Created: Thu 22 Feb 08:00 2024
Location: East Port Lift Station
#59 Skylark Vac Station
Address: 391 Azalea Ave NW,

391 Azalea Ave NW, Port Charlotte, Florida 33952

No. Items: 39

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:20 2024

Group: Inter – MCC

Room

Cause of Damage: N/A

Component Description:

Overview Photo.



Created: Thu 22 Feb

08:20 2024

Group: Inter – MCC

Room

Cause of Damage: N/A

Component Description:

Overview photo.

Created: Thu 22 Feb 08:00 2024 Location: East Port Lift Station

East Port Lift Station #59 Skylark Vac Station 391 Azalea Ave NW,

Port Charlotte, Florida 33952

No. Items: 39

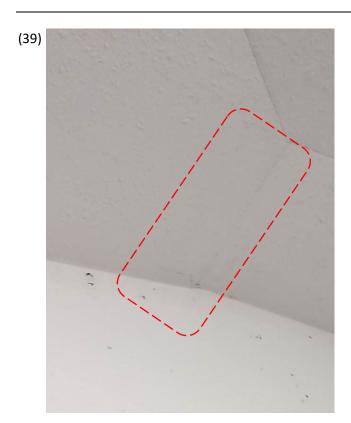
Address:

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Thu 22 Feb

08:20 2024

Group: Interior – MCC

Room

Cause of Damage: Wind Driven

Rain

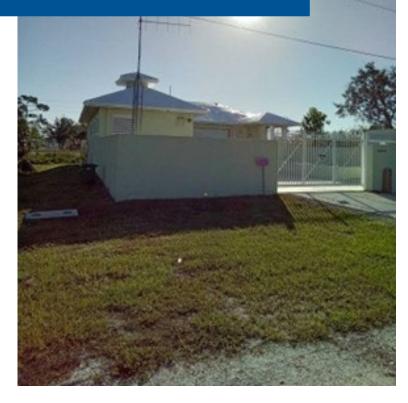
Component Description:

Water damage to ceiling drywall.

Drywall area calculated in with pump room. Refer to Photo (27).



Site Inspection Report for Charlotte County – East Port Lift Station #99 El Jobean Vac Station Florida Hurricane Ian (DR-4673-FL)





Created: Mon 20 Nov 08:45 2023 Location:

East Port Lift Station #99 El Jobean

Vac Station

Address: 4060 Railroad Ave, Port Charlotte,

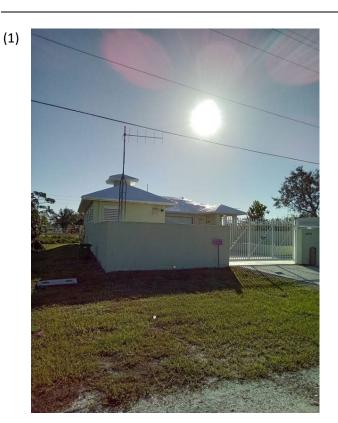
Florida, 33953

No. Items: 10 Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

chris.riti@csaconsulting group.comEmail:



Created: Mon 20 Nov

09:02 2023

Group: Exterior

Cause of Damage: N/A

GPS Lat/Long: 26.972741;

-82.209742

Component Description:

Overview Photo.



Created: Mon 20 Nov

09:02 2023

Group: Exterior

Cause of Damage: High Winds

Component Description:

Roof damage.

Aluminium shingles.

Exact quantity unknown - roof covered with temporary waterproofing membrane.

Mon 20 Nov 08:45 2023 Created: Location:

East Port Lift Station #99 El Jobean

Address: 4060 Railroad Ave, Port Charlotte,

Florida, 33953

No. Items: 10 Contact: Chris Riti

CSA Consulting Group, LLC. Company:

(941) 284-0159 Phone:

Email: chris.riti@csaconsultinggroup.com



Created: Mon 20 Nov

09:02 2023

Group: Exterior **Cause of Damage: High Winds**

Component Description:

Refer to Photo (2).



Mon 20 Nov **Created:**

09:13 2023

Group: Exterior **Cause of Damage:** N/A

Component Description:

Overview Photo.

Mon 20 Nov 08:45 2023 Created: Location:

East Port Lift Station #99 El Jobean

Vac Station

4060 Railroad Ave, Port Charlotte,

Florida, 33953

No. Items: 10

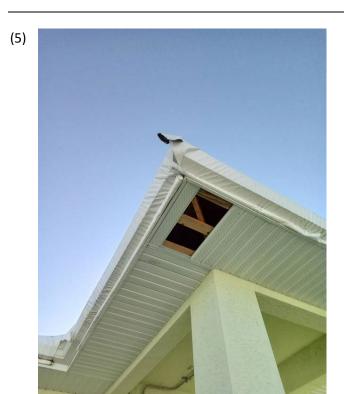
Address:

Contact: Chris Riti

CSA Consulting Group, LLC. Company:

(941) 284-0159 Phone:

chris.riti@csaconsultinggroup.com Email:



Created: Mon 20 Nov

09:12 2023

Group: Exterior

Cause of Damage: High Winds

Component Description:

Soffit missing.

White aluminium soffit. 2' W.

2 LF.



Created: Mon 20 Nov

09:13 2023

Group: Exterior

Cause of Damage: High Winds

Component Description:

Soffit damage.

White aluminium. 2' W.

2 LF.

Created: Mon 20 Nov 08:45 2023 Location:

East Port Lift Station #99 El Jobean

Vac Station

4060 Railroad Ave, Port Charlotte,

Florida, 33953

No. Items: 10

Address:

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

chris.riti@csaconsultinggroup.com Email:



Created: Mon 20 Nov

09:08 2023

Group: Pump Room

Cause of Damage: N/A

Component Description:

Overview Photo.



Created: Mon 20 Nov

09:08 2023

Group: Pump Room

Cause of Damage: Wind Driven

Rain

Component Description:

Water damage to attic scuttle access panel.

(1) 22" x 36" scuttle access panel.

Created: Mon 20 Nov 08:45 2023 Location:

East Port Lift Station #99 El Jobean

Vac Station

4060 Railroad Ave, Port Charlotte,

Florida, 33953

No. Items: 10

Address:

Contact: Chris Riti

CSA Consulting Group, LLC. Company:

(941) 284-0159 Phone:

Email: chris.riti@csaconsultinggroup.com



Created: Mon 20 Nov

09:09 2023

Group: MCC Room

Cause of Damage: N/A

Component Description:

Overview Photo.



Mon 20 Nov **Created:**

09:10 2023

Group: MCC Room

Cause of Damage: N/A

Component Description:

Overview Photo.



Site Inspection Report for Charlotte County – East Port Lift Station #143 – Harbor Blvd Florida Hurricane Ian (DR-4673-FL)





Created: Mon 20 Nov 14:04 2023

Location: East Port Lift Station #143 Harbor

3lvd

Title: 218 Deerfield Ave, Port Charlotte,

Florida, 33952

No. Items: 15

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Mon 20 Nov

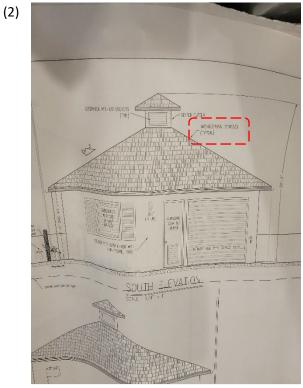
14:04 2023

Group: Exterior
Cause of Damage: High Winds
GPS Lat/Long: 26.976782;
-82.098974

Component Description:

Roof panels blown off. Roofing membrane damaged. Temporary repair in place.

Building footprint: 34' x 34'



Panel type: Architectural Shingles **Created:** Mon 20 Nov

14:05 2023

Group: Exterior Cause of Damage: High Winds

Component Description:

Created: Mon 20 Nov 14:04 2023

Location: East Port Lift Station #143 Harbor

₿lvd

Title: 218 Deerfield Ave, Port Charlotte,

Florida, 33952

No. Items: 15

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Mon 20 Nov

14:05 2023

Group: Exterior **Cause of Damage:** High Winds

Component Description:

Refer to Photo (1)



Created: Mon 20 Nov

14:05 2023

Group: Exterior **Cause of Damage:** High Winds

Component Description:

Created: Mon 20 Nov 14:04 2023

Location: East Port Lift Station #143 Harbor

Blvd

Title: 218 Deerfield Ave, Port Charlotte,

Florida, 33952

No. Items: 15

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Mon 20 Nov

14:07 2023

Group: Exterior Cause of Damage: High Winds

Component Description:

Soffit separation on upper roof.

2' W white aluminium soffit. 2 LF.



Created: Mon 20 Nov

14:08 2023

Group: Pump Room **Cause of Damage:** Wind-Driven

willa-Dilve

Rain

Component Description:

Insulation and drywall damaged and removed after water intrusion from damaged roof membrane.
Sheathing damage unknown.

(6) dual pole, 4' fluorescent fixtures removed and stored offsite.

34' x 34' drywall footprint, incl. MCC Room. 5/8" Type X.

R 30 Batt insulation.

(8)

Created: Mon 20 Nov 14:04 2023

Location: East Port Lift Station #143 Harbor

3lvd

Title: 218 Deerfield Ave, Port Charlotte,

Florida, 33952

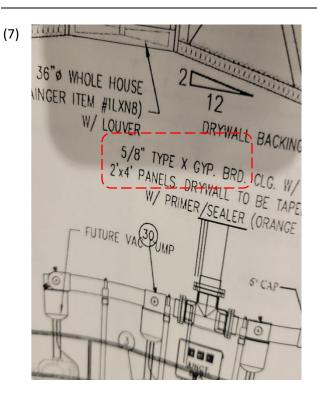
No. Items: 15

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Mon 20 Nov

14:08 2023

Group: Pump Room **Cause of Damage:** Wind-Driven

Rain

Component Description:

Refer to Photo (6).



Created: Mon 20 Nov

14:08 2023

Group: Pump Room

Cause of Damage: Wind-Driven

Rain

Component Description:

Created: Mon 20 Nov 14:04 2023

Location: East Port Lift Station #143 Harbor

Blvd

Title: 218 Deerfield Ave, Port Charlotte,

Florida, 33952

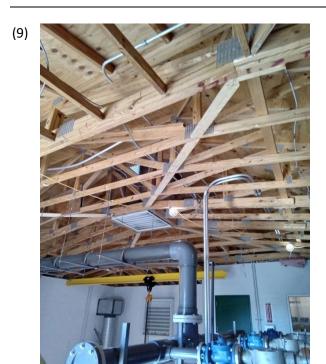
No. Items: 15

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Mon 20 Nov

14:09 2023

Group: Pump Room **Cause of Damage:** Wind-Driven

Rain

Component Description:

Refer to Photo (6).



Created: Mon 20 Nov

14:09 2023

Group: Pump Room

Cause of Damage: Wind-Driven

Rain

Component Description:

Created: Mon 20 Nov 14:04 2023

Location: East Port Lift Station #143 Harbor

Blvd

Title: 218 Deerfield Ave, Port Charlotte,

Florida, 33952

No. Items: 15

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Mon 20 Nov

14:13 2023

Group: Pump Room **Cause of Damage:** Wind-Driven

Rain

Component Description:

Refer to Photo (6).

Remnant of batt insulation.



Created: Mon 20 Nov

14:14 2023

Group: MCC Room

Cause of Damage: Wind-Driven

Rain

Component Description:

No damage to equipment. Ceiling drywall was damaged and replaced with unfinished repair to reestablish AC to protect equipment.

(2) 4' dual pole fluorescent light fixtures removed and replaced with temporary lights. Fixtures onsite.

Created: Mon 20 Nov 14:04 2023

Location: East Port Lift Station #143 Harbor

3lvd

Title: 218 Deerfield Ave, Port Charlotte,

Florida, 33952

No. Items: 15

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Mon 20 Nov

14:14 2023

Group: MCC Room **Cause of Damage:** Wind-Driven

Rain

Component Description:

Refer to Photo (12).



Created: Mon 20 Nov

14:14 2023

Group: MCC Room

Cause of Damage: Wind-Driven

Rain

Component Description:

Created: Mon 20 Nov 14:04 2023

Location: East Port Lift Station #143 Harbor

3lvd

Title: 218 Deerfield Ave, Port Charlotte,

Florida, 33952

No. Items: 15

Contact: Chris Riti

Company: CSA Consulting Group, LLC.

Phone: (941) 284-0159

Email: chris.riti@csaconsultinggroup.com



Created: Mon 20 Nov

14:14 2023

Group: MCC Room **Cause of Damage:** Wind-Driven

Rain

Component Description: