

PLANS FOR PROPOSED PUMP STATION
IMPROVEMENTS TO

BELEN 1

SW 127 AVE AND SW 6 ST

MIAMI-DADE COUNTY PROJECT NO. 20200044

INDEX OF SHEETS

SHT. No. SHEET DESCRIPTION

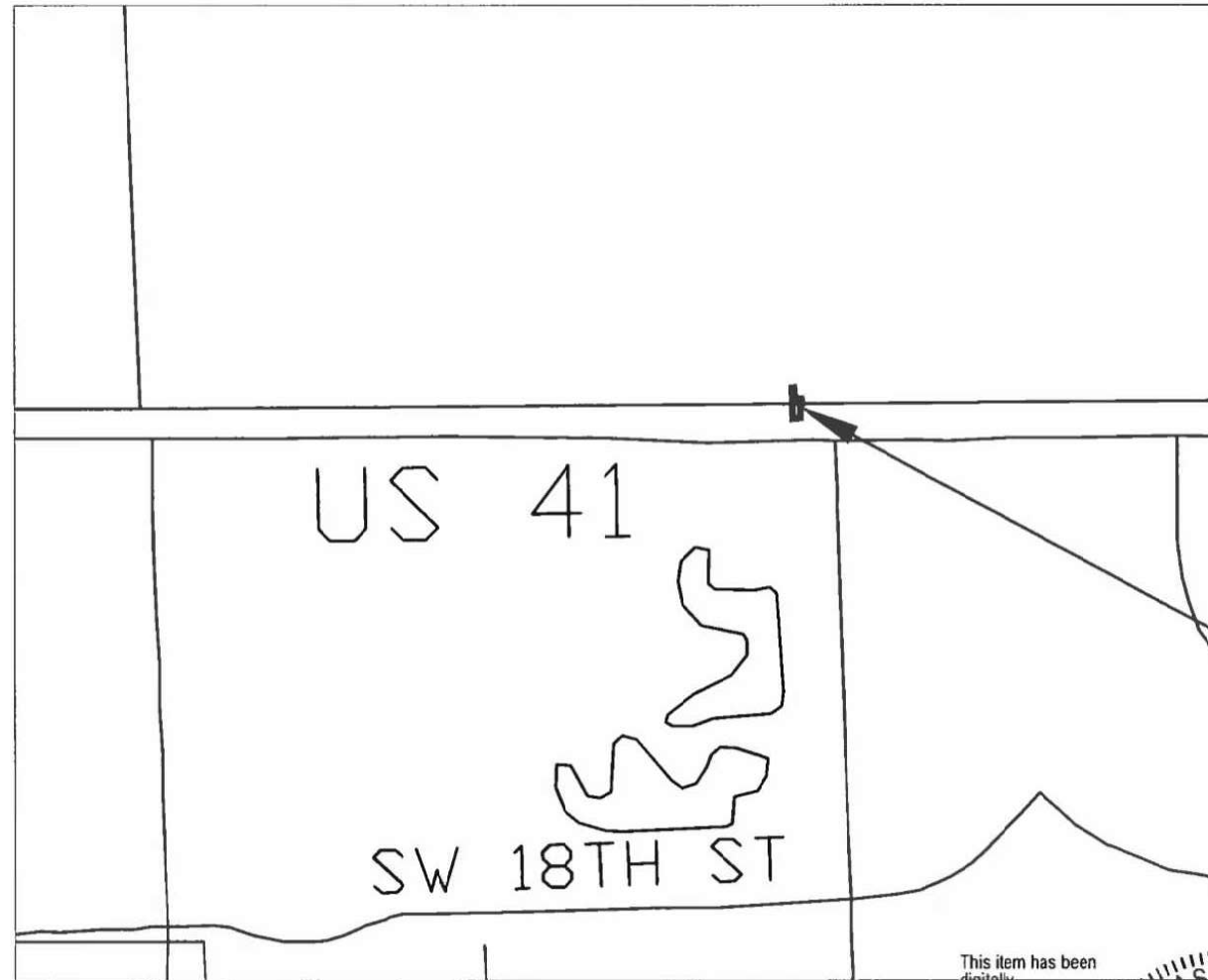
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SUMMARY OF QUANTITIES

Item No.	Description	Unit	Quantity
600-4	Pump Station Improvements	L.S.	1

Note: This Pump Station Improvements item will include but will not be limited to the installation of Three (3) Telemetry sensors with integration to existing SCADA system; Two (2) new 43" X 32" aluminum Wall Louvers; Mobilization; Demolition and Disposal of debris; Coordination of electrical service with Florida Power and Light; and all appurtenant work.

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS PARTS 1, 2 AND 3, THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS, THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AS AMENDED BY CONTRACT DOCUMENTS.



SCALE: 1"=1500'

NOTE:

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.



PROJECT LOCATION

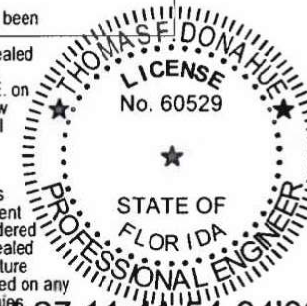
PREPARED BY



MIAMI-DADE COUNTY DEPARTMENT OF
TRANSPORTATION AND PUBLIC WORKS
ROADWAY ENGINEERING AND
RIGHT OF WAY DIVISION
STORMWATER DRAINAGE DESIGN SECTION

STEPHEN P. CLARK CENTER
111 NW 1 ST, SUITE 1510
MIAMI, FLORIDA 33128

This item has been
digitally
signed and sealed
by Thomas F.
Donahue, P.E. on
the date below
using a Digital
Signature.



Printed copies
of this document
are not considered
signed and sealed
and the signature
must be verified on any
electronic copies.

2023.04.27 11:41:54-04'00'

ENGINEER OF RECORD:

THOMAS F. DONAHUE, P.E.
FLORIDA REGISTRATION P.E. No. 60529
KEITH CIVIL ENGINEER



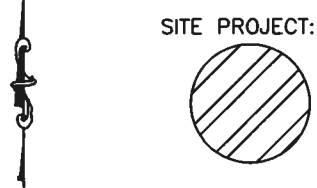
301 East Atlantic Boulevard
Pompano Beach, Florida 33060-6643
(954) 788-3400

Florida Engineering Business License: CA7928
Florida Surveyor and Mapper Business License: LB6860
Florida Landscape Architecture Business License: LC26000457

DESIGN	NM	CHECK	TD
		DRAWN	VC/MD/JN
DATE	SEPTEMBER 2022	SHEET	1 OF 15

TOPOGRAPHIC BOUNDARY SURVEY.

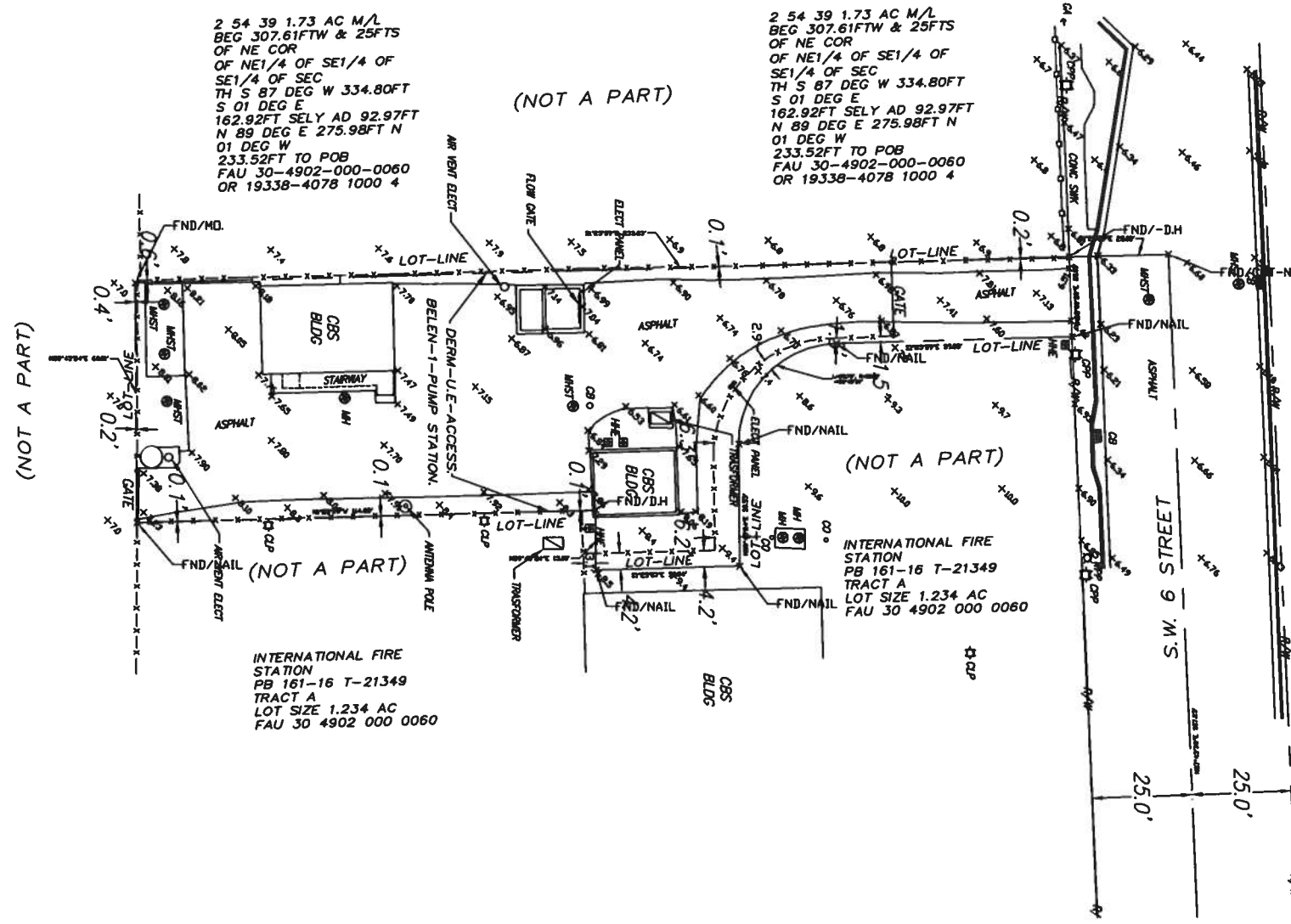
A PUMP STATION (BELEN No-1) ON A PORTION OF A D.E.R.M. EASEMENT ACCESS LYING AND BEING ON TRACT-A , PLAT BOOK-161, PAGE-16 LYING IN SECTION 2, TOWNSHIP 54 SOUTH, RANGE 39 EAST MIAMI-DADE COUNTY, FLORIDA.



LOCATION MAP:
SCALE: 1"=40 FEET.

- LEGEND:**
- △ CONTROL POINT
 - ⊙ METAL PEDESTRIAN POLE
 - ⊙ EXISTING ELEVATIONS
 - ⊙ SANITARY SEWER MANHOLE
 - ⊙ STORM SEWER MANHOLE
 - ⊙ MANHOLE UNKNOWN
 - ⊙ CONCRETE LIGHT POLE
 - ⊙ GAS VALVE
 - ⊙ WATER VALVE
 - ⊙ SEWER VALVE
 - ⊙ VALVE UNKNOWN
 - ⊙ SIGN
 - ⊙ CATCH BASIN
 - ⊙ HAND-HOLE TRAFFIC SIGNAL
 - ⊙ SPRINKLER HEAD
 - ⊙ TREE (VARIOUS)
 - ⊙ PALM TREE
 - ⊙ HAND-HOLE FIBER OPTIC
 - ⊙ MONITORING WELL
 - ⊙ STANDPIPE
 - ⊙ HANDHOLE UNKNOWN

- ABBREVIATIONS AND MEANINGS:**
- DTPW MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 - ⊙ CENTERLINE
 - ⊙ APPROXIMATE DIAMETER OF TREE TRUNK
 - H APPROXIMATE HEIGHT OF TREE
 - M CITY OF MIAMI MONUMENT LINE
 - P PALM
 - PSM PROFESSIONAL SURVEYOR AND MAPPER
 - R/W RIGHT-OF-WAY
 - S APPROXIMATE DIAMETER OF TREE CANOPY
 - T TREE



SCALE: 1" = 20'

LEGAL NOTES TO ACCOMPANY SPECIFIC PURPOSE SURVEY:

- THIS SURVEY MAP REPRESENTS A TOPOGRAPHIC BOUNDARY SURVEY.
- THE PURPOSE OF THIS SURVEY IS TO DEPICT THE LOCATION OF TOPOGRAPHIC FEATURES AND THE BOUNDARY SURVEY OF THE PUMP STATION LOCATED AT S.W 6th ST & S.W 127th AVE. (BELEN-1)
- THE SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SEAL OF A FLORIDA LICENSED SURVEYOR & MAPPER.
- THIS SURVEY IS SUBJECT TO DEDICATIONS, LIMITATIONS, RESTRICTIONS, OR EASEMENTS OF RECORD; ALL EASEMENTS (IF ANY) WERE SUPPLIED BY THE CLIENT.
- SOURCES OF DATA: BASED ON A PROPERTY RECORDER LEGAL DESCRIPTION AND PLAT BOOK 161 PAGE 16 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.
- ALL DISTANCE MEASUREMENTS WERE MADE IN UNITED STATES SURVEY FEET, UNLESS SHOWN OTHERWISE.
- THE PROJECT SITE IS LOCATED IN SECTION 2, TOWNSHIP 54 SOUTH, RANGE 39 EAST, IN MIAMI-DADE COUNTY, FLORIDA.
- THE BEARING BASIS FOR THIS SURVEY IS SOUTH 87°43'36" WEST ALONG THE CENTER LINE OF S.W 6th STREET.
- ELEVATIONS SHOWN HEREON ARE REFERRED TO A RECORDED MIAMI-DADE COUNTY BENCH-MARK JUAN, ELEVATION=11.16' N.G.V.D.-29.
- NO ATTEMPT WAS MADE TO LOCATE UNDERGROUND UTILITIES, FOOTINGS, BUILDINGS, EXCEPT AS SHOWN HEREON, IF ANY.
- AN OPINION OF TITLE FOR THE SUBJECT PARCEL WAS NOT PROVIDED; THE SOURCES OF DATA LISTED ABOVE WERE USED AS THE BASIS FOR THIS SURVEY.
- ARCHITECTS SHALL VERIFY ZONING REGULATIONS, RESTRICTIONS AND SETBACKS AND THEY WILL BE RESPONSIBLE FOR SUBMITTING PLOT PLANS WITH THE CORRECT INFORMATION FOR THE APPROVAL BY MIAMI-DADE COUNTY AUTHORITIES IN ALL CONSTRUCTION, UNLESS OTHERWISE NOTED.
- AERIAL BACKGROUND IMAGES ARE SHOWN FOR GRAPHICAL PURPOSES ONLY AND MAY NOT BE INDICATIVE OF EXISTING SITE CONDITIONS. AERIAL IMAGE ACQUISITION WAS COMPLETED ON JULY 30, 2020.
- THIS MAP IS INTENDED TO BE DISPLAYED AT A SCALE OF 1"= 40' OR SMALLER. AT THE MAXIMUM INTENDED DISPLAYED SCALE, THE MAP'S POSITIONAL VALUE OCCUPIES 1/20" ON THE DISPLAY (EXCLUDING THE LOCATION MAP).
- ADDITIONS OR DELETIONS TO THE SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.

(TREE TABLE):

THE TOTAL FINAL JOB POINT LIST DO NOT SHOWN ANY EXISTING TREES AFFECTING THE PROPERTY.

THE SURVEY DEPICTED HERE IS NOT COVERED BY PROFESSIONAL LIABILITY INSURANCE.

I HEREBY CERTIFY :
THAT THE ATTACHED "SPECIFIC PURPOSE SURVEY" OF THE PROPERTY SHOWN HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS RECENTLY SURVEYED AND DRAWN UNDER MY SUPERVISION AND DIRECTION. THIS SURVEY COMPLIES WITH THE STANDARDS OF PRACTICE AS SET FORTH IN RULES 5J-17.051 AND 5J-17.052 AS ADOPTED BY THE FLORIDA STATE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS PURSUANT TO CHAPTER 472.027 FLORIDA STATUTES.

RICARDO, P.S.M.
FLORIDA LICENSE NO-6283.
FOR THE DTPW-TRANSPORTATION.

RICARDO, P.S.M.
FLORIDA LICENSE NO-6283.
FOR THE DTPW-TRANSPORTATION.

Project Manager:	A. F. C.	Drawn:	R.J.	Checked:	Residence
IF DATE		IF DATE		IF DATE	

**Miami Dade County
Department of Transportation
and Public Works
Survey Section**

**MIAMI-DADE
DTPW**

**TOPOGRAPHIC BOUNDARY SURVEY:
PUMP STATION AT S.W 6th STREET.
AND S.W 127th AVENUE.**

Project #	20200044	Scale	1"=20'
Date	06/02/2021	Drawing #	1 of 1
FIELD BOOK	N/A	PAGE	N/A

GENERAL ELECTRICAL NOTES & SPECIFICATIONS

- THE "GENERAL CONDITIONS OF THE CONTRACT", CURRENT EDITION, PUBLISHED IN STANDARD FORM BY THE AMERICAN INSTITUTE OF ARCHITECTS SHALL BE PART OF THIS CONTRACT.
- IT IS NOT THE INTENT OF THESE PLANS AND SPECIFICATIONS TO SHOW EVERY AND ALL DETAILS OF CONSTRUCTION. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE ELECTRICAL INSTALLATION IN PROPER WORKING ORDER.
- ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE FLORIDA BUILDING CODE (2020), NATIONAL ELECTRICAL CODE (NEC 2017) AND THE LATEST STATE AND OTHER LOCAL CODES THAT APPLY.
- THE CONTRACTOR SHALL TAKE OUT PERMITS, PROCURE CERTIFICATES AND PAY ALL FEES CONNECTED WITH HIS WORK. PERMIT FEES WILL BE REIMBURSED WITH A DEDICATED ALLOWANCE.
- BIDDERS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS SURROUNDING THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE BIDDERS TO VISIT THE SITE OF WORK AND ACQUAINT THEMSELVES WITH ALL AVAILABLE INFORMATION REGARDING THE EXISTING FACILITIES. FAILURE OF THE BIDDERS TO SO INFORM THEMSELVES OF EXISTING CONDITIONS AND TO INCLUDE IN THEIR PROPOSALS A SUM SUFFICIENT TO COVER SAME WILL NOT ENTITLE THEM TO AN EXTRA.
- THE CONTRACTOR IS REFERRED TO THE ARCHITECTURAL PLANS AND SPECIFICATIONS. SUCH PLANS AND SPECIFICATIONS ARE CONTRACT DOCUMENTS.
- DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS OF ALL ELECTRICAL ITEMS. EXACT CONDUIT ROUTING SHALL BE DETERMINED IN THE FIELD, UNLESS OTHERWISE NOTED (UON).
- CONTRACTOR SHALL SUBMIT REQUESTS FOR SUBSTITUTION IN WRITING TO THE ENGINEER, 10 WORKING DAYS PRIOR TO BIDDING DATE.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL EQUIPMENT AND MATERIALS. SUBMIT A MINIMUM OF FOUR SETS TO THE A/E.
- GROUNDING SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (ARTICLE 250) AND REQUIREMENTS OF THE INSPECTING AUTHORITY. ALL CONNECTIONS TO GROUND RODS SHALL BE MADE WITH UL APPROVED ACCESSIBLE GROUND CLAMPS, UNLESS OTHERWISE NOTED.
- UPON COMPLETION OF WORK, THIS CONTRACTOR SHALL REMOVE ALL RUBBISH CAUSED BY HIS WORK AND SHALL THOROUGHLY CLEAN ALL ELECTRICAL EQUIPMENT.
- ALL WORK SHALL BE GUARANTEED FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
- ALL ITEMS OF ELECTRICAL EQUIPMENT ASSOCIATED WITH THE CONTROL OF ELECTRICAL CIRCUITS AND APPARATUS SHALL BE IDENTIFIED.
- ALL POWER AND LIGHTING CIRCUIT WIRING SHALL BE COLOR CODED AS FOLLOWS:

120/240V.
PHASE "A" - BLACK
PHASE "B" - RED
PHASE "C" - BLUE
NEUTRAL - WHITE
GROUND - GREEN
- ALL CONDUCTORS SHALL BE COPPER, 600V. #10 AND SMALLER, SOLID TYPE THWN/THHN; #8 AND LARGER, STRANDED TYPE THWN/THHN.
- ALL CONDUCTORS FOR POWER LIMITED CABLES SHALL COMPLY WITH ARTICLES 725 & 760 OF N.E.C. LATEST EDITION.
- NOMINAL MOUNTING HEIGHT OF DEVICES IN EXPOSED CONCRETE BLOCK, TILE OR BRICK WALLS SHALL ALL OCCUR WITHIN A STRUCTURAL COURSE. A MIN. AMOUNT OF BLOCK, TILE OR BRICK WALLS SHALL BE CUT.
- ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE INDUSTRIAL GRADE, HEAVY-DUTY, AND U.L. LISTED UNLESS SPECIFIED OTHERWISE. ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED, FOR THE INTENDED USE, WITH UNDERWRITER'S LABORATORIES INC. (UL), WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL. AS A MINIMUM, ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS, FOR THE TYPE OF EQUIPMENT AND THE INTENDED USE, OF THE FOLLOWING.
A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
B. ILLUMINATING ENGINEERS SOCIETY (IES)
C. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
D. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
NOTE: THESE STANDARDS ARE SUBORDINATE TO STANDARDS SET BY U.L. AND LOCAL CODES.
- WIRING DEVICES SHALL BE SPECIFICATION GRADE. MINIMUM SIZE OF OUTLET BOXES SHALL BE 4" SQ. TRADE. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURE FOR OTHER CLASSIFIED AREAS.
- ALL ELECTRICAL CONDUCTORS MUST BE IN CONDUIT. ALL CONDUITS SHALL BE INTERMEDIATE (IMC) OR RIGID GALVANIZED STEEL (RGS) EXCEPT THAT: (A) POLY VINYL CHLORIDE (PVC) CONDUITS MAY BE USED IN CONCRETE SLABS AND UNDERGROUND PROVIDED THAT ELBOWS AND RISERS ARE RGS; (B) ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN WALLS OR CEILINGS OF FINISHED AREAS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, OR CORROSIVE CONDITIONS; (C) LIQUID TIGHT FLEXIBLE CONDUIT WHERE REQUIRED IN WET OR DAMP LOCATIONS; (D) FLEXIBLE METALLIC CONDUIT WHERE REQUIRED IN DRY LOCATIONS. ALL CONDUITS IN HAZARDOUS LOCATIONS SHALL MEET THE REQUIREMENTS OF NEC CHAPTER 5. THE USE OF ENT CONDUIT IS PROHIBITED.
- APPLY 2 COATS OF BITUMASTIC COATING TO ALL METALLIC CONDUITS INSTALLED UNDERGROUND.
- NO CONDUITS TO BE RUN IN DUCT WORK. A POLYESTER PULL CORD SHALL BE INSTALLED IN ALL EMPTY CONDUITS.
- SIZE ALL WIREWAYS ACCORDING TO N.E.C. ARTICLE 378-22.
- ALL RATED WALL/FLOOR PENETRATIONS ARE TO BE SEALED WITH A FIRE RATED SEALER, PER ASTM E814.
- ANY VARIATION FROM THE PLANS ARE TO BE PREVIOUSLY APPROVED BY THE ENGINEER IN WRITING.

ELECTRICAL SYMBOL LEGEND

	CEILING LIGHT FIXTURE-UPPER CASE LETTER DESIGNATES FIXTURE TYPE, LOWER CASE LETTER DESIGNATES SWITCHING.
	FLUORESCENT LIGHT FIXTURE SEE FIXTURE SCHEDULE EMERGENCY LIGHT FIXTURE CONNECTED TO EMERGENCY LIGHTING CIRCUIT.
	DUAL HEAD EMERGENCY STAND-BY LIGHT, WITH BATTERY PACK, WALL MOUNTED. MT. UP 9'-0" A.F.F. TO CL OF OUTLET BOX.
	SINGLE POLE TOGGLE SWITCH, 20 AMP, 120/277V, SPECIFICATION GRADE. LETTER DENOTES LIGHTS ON SWITCH "A". MOUNT AT 48" A.F.F. TO CL OF OUTLET BOX UNLESS NOTED.
	DUPLEX RECEPTACLE; 20 A., 120 V., GROUNDING TYPE. MOUNTED 18" A.F.F. TO CL OF OUTLET BOX. (EXCEPT AS NOTED). HUBBELL 52621 U.O.N.
	DUPLEX RECEPTACLE; 20 A., 120 V., GROUNDING TYPE. VERIFY MOUNTING HEIGHT. HUBBELL 52621 U.O.N.
	DUPLEX GFI RECEPTACLE MOUNTED HORIZONTALLY; 20 A., 120 V., GROUNDING TYPE. MOUNTED UP AS NOTED ON PLANS. EXCEPT IN RESTROOMS NEXT TO SINKS WHERE IT SHALL BE MOUNTED AT 42" A.F.F. TO CL OF OUTLET.
	TELEPHONE/DATA OUTLET 4-11/16" X 4-11/16" 2-1/8" WITH BUSHED HOLE COVER PLATE-MOUNTED 18" A.F.F. TO C OF OUTLET (EXCEPT AS NOTED) PROVIDED 3/4" E.C. FROM EACH OUTLET TO PHONE (LOCAL) PULL BOX IN CL'G SPACE (EXCEPT AS NOTED.) TELECOMMUNICATIONS ROOM.
	SAFETY SWITCH - HEAVY DUTY NEMA CLASS "A" IN NEMA 1 ENCLOSURE, OUTDOOR TYPE NEMA 3R.
	DESIGNATES SWITCH RATING, "3" DESIGNATES POLES; "20" TIME DELAY FUSE; "30" SWITCH AMPS.
	120/208V., 3Ø, 4W. PANEL BOARD.
	EQUIPMENT JUNCTION BOX, FURNISHED WITH EQUIPMENT.
	WALL CEILING MOUNTED JUNCTION BOX. MINIMUM 4" X 4" X 1 1/2" WITH BLANK PLATE. MT. WALL BOX UP AS SHOWN ON PLAN.
	WALL/CEILING MOUNTED J.BOX FOR DATA OR POWER RESPECTIVELY. MT. WALL BOX UP AS SHOWN ON PLAN.

NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT.

ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION
(TYP.)	TYPICAL	MIN.	MINIMUM	V.
PNL.	PANEL	(MFR) MANUF.	MANUFACTURER	AMP.
LT.	LIGHT	GFI.	GROUND FAULT INTERRUPTER	LTG.
Ø	PHASE	M.C.B.	MAIN CIRCUIT BREAKER	H.P.
PVC	POLYVINYL-CHLORIDE	F/N	FULL NEUTRAL	J.B.
RGS	RIGID GALVANIZED STEEL	SURF.	SURFACE	GRS.

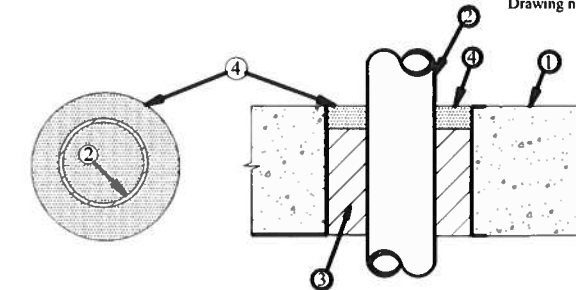
SCOPE OF WORK:

- SCOPE UNDER THIS PROJECT INCLUDES THE FOLLOWING:
- INSTALLING THREE (3) NEW WATER LEVEL SENSORS (RADAR AND ULTRASONIC). NEW SENSORS TO BE CONNECTED TO EXISTING REMOTE TERMINAL UNIT (RTU) AS PER DIAGRAM ON E-105. NEW SENSORS WILL BE INTEGRATED INTO EXISTING CONTROL SEQUENCE.
 - ROOMS VENTILATION IS BEING IMPROVED.

2 Hour Fire Rated Through Penetration Firestop for Single Metal Pipe through Concrete Floors and Walls using TREMstop IA



F-Rating 2 Hr
T-Rating 0 Hr



- ① Pre-Rated Concrete Floors or Block Walls Min 4-1/2" thickness.
② Metallic Pipe A) Steel Pipe - 12" diam (or smaller) Sch 10 (or heavier) steel pipe.
B) Iron Pipe - 12" diam (or smaller) cast or ductile iron pipe.
C) Conduit - 4" diam (or smaller) EMT or 6" diam steel conduit.
D) Copper Tubing - 6" diam (or smaller) Type L (or heavier) copper tubing.
E) Copper Pipe - 6" diam (or smaller) Regular (or heavier) copper pipe.
③ Packing Material- Min 4-1/4" thickness of mineral wool insulation (min. 4.0 pcf) firmly packed into opening as a permanent form
④ TREMstop IA- Min 1/4" thickness of sealant applied within annulus, flush with top surface of floor or both sides of wall assembly

UL cUL System No CAJ 1302

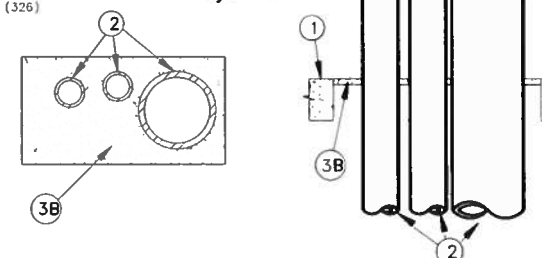
2 Hour Fire Rated Through Penetration Firestop for Multiple Metal Pipe through Concrete floors or walls using FYRE-SHIELD.



Drawing not to scale

CAJ1047 (326)

F-rating = 2 Hr
T-rating = 0 Hr



- ① Floor or Wall assembly = 4" thick concrete, Max. area of opening is 288 sq. in.
② • Nom. 8" diam. (or smaller) Sch. 40 (or heavier) steel pipe
• Nom. 4" diam. (or smaller) copper pipe.
• Max. number of pipes with opening is three (3).
③ A) Forming Material - (Not shown) - Nom. 1" thick polyurethane backer rod friction fitted into opening.
B) Nom. 1/2" FYRE-SHIELD thickness installed within opening.

NOTE: Similar products of other manufacturers may be used if accepted equal.

NOTE: For wall apply FYRE-SHIELD to both surfaces of wall.

CONCRETE FLOORS OR WALLS PENETRATION DETAILS.

Digitally signed by Zoila Morales DN: c, US, o, ME Engineering Consultants, ou=A01410D000 00171310794480 001940F, cn=Zoila Morales Date: 2023.01.10 10:28:14 -05'00'

Zoila Morales, Electrical P E #64981

M.E. Engineering Consultants Inc
11401 SW 40TH Street Suite 301
Ph:(786)275-4635
CA 29121

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

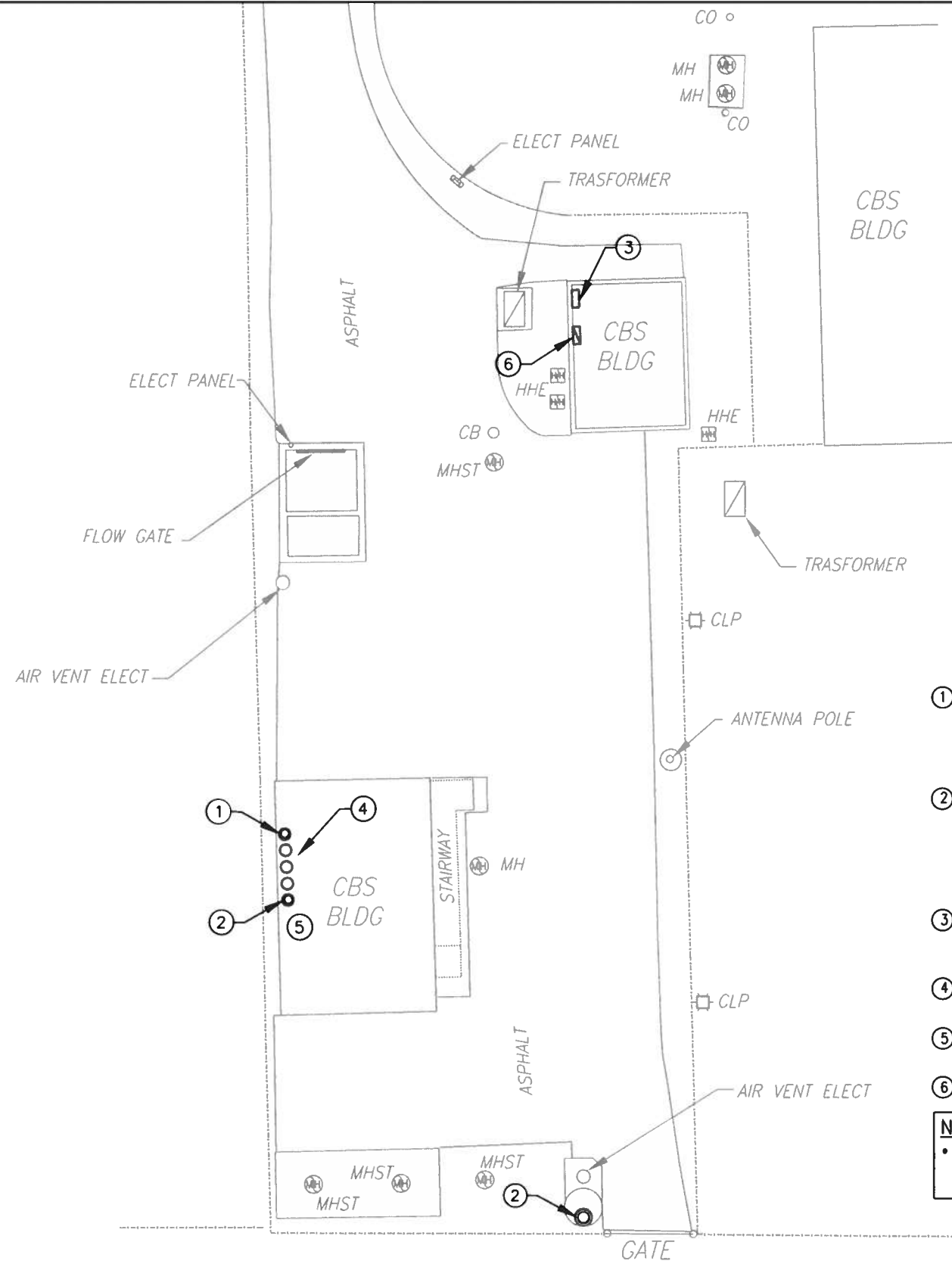
Belen 1
SW 127 Ave and SW 6 St
PUMP STATION IMPROVEMENT PROJECT

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	Z.M.			L.F. - M.T.	SEPT. 2022
	Z.M.			Z.M.	

SUPERVISED BY: ZOILA MORALES

MIAMI-DADE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION
5319 SW 11th St
MIAMI, FL 33134

GENERAL ELECTRICAL NOTES, LEGEND AND DETAILS



CODED NOTES:

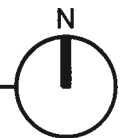
- ① NEW ROSEMOUNT 540B RADAR LEVEL TRANSMITTER LOAD CONTROL NON CONTACT WET WELL LEVEL MOUNTED AS PER MANUFACTURER SPECIFICATIONS. MINIMUM 1FT DISTANCE FROM TANK WALL INSTALLATION. CONNECT TO RTU VIA PROTEX-MAX EXPLOSION PROOF PROCESS METER PUMP LOCAL CONTROLLER PRECISION DIGITAL PD-6000-6R7. REFER TO DETAIL ON E-104. COORDINATE EXACT SENSOR LOCATION WITH OWNER AND CIVIL DRAWINGS.
- ② SENIX ULTRASONIC DISTANCE AND LEVEL SENSOR TF30 WITH SERIAL RS-485 INTERFACE FOR BACKUP LEVEL MEASUREMENT MOUNTED AS PER MANUFACTURER SPECIFICATIONS. USE A NEMA 4X (316SS) HOUSING FOR SENSOR AND TRANSMITTER, WITH POTTED CABLE CONNECTIONS. SIMPEL MODBUS RS485 FOR DIRECT CONNECTION TO SCADA; NO 4-20MA NEEDED. 2" NPT MOUNT INSTALLATION. COORDINATE EXACT SENSOR LOCATION WITH OWNER AND CIVIL DRAWINGS.
- ③ EXISTING RTU PANEL. INSTALL NEW FOUR-PORT COMMUNICATION MODULE WITH TWO RS-232 (EC 4/8 AND 4/9) AND TWO RS-485 PORTS (EC 6/10 AND 7/11). REFER TO DETAIL ON DRAWING E-105.
- ④ REMOVE EXISTING SENSORS ALONG WITH ASSOCIATED WIRES CONNECTING TO RTU. COORDINATE WITH OWNER (MIAMI DADE). RETURN SENSORS TO OWNER.
- ⑤ PROVIDE PROTEX-MAX EXPLOSION PROOF PROCESS METER PUMP LOCAL CONTROLLER PRECISION DIGITAL PD6000-6R7 AS PER DIAGRAM ON DRAWING E-104.
- ⑥ EXISTING ELECTRICAL PANEL 1LA TO REMAIN. REFER TO SCHEDULE ON DRAWING E-103.

NEW MONITOR FUNCTIONS:

- WATER LEVEL: THERE WILL BE AN ULTRASONIC AND RADAR LEVEL SENSOR/TRANSMITTER INSTALLED CONSTANTLY MEASURING THE LEVEL OF WATER. EACH LEVEL TRANSMITTER IS CONNECTED TO THE RTU PANEL.

ELECTRICAL SITE PLAN

SCALE: 1"=20'-0"



Digitally signed
 by Zoila Morales
 DN: c=US, o=ME
 Engineering
 Consultants,
 ou=A01410D000
 00171310794480
 001940F,
 cn=Zoila Morales
 Date: 2023.01.10
 10:28:49 -05'00'

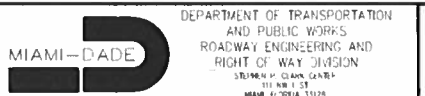
Zoila Morales, Electrical P.E #64981
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 11401 SW 40TH Street Suite 301
 Ph:(786)275-4635
 CA 29121

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Belen 1
 SW 127 Ave and SW 6 St
 PUMP STATION IMPROVEMENT PROJECT

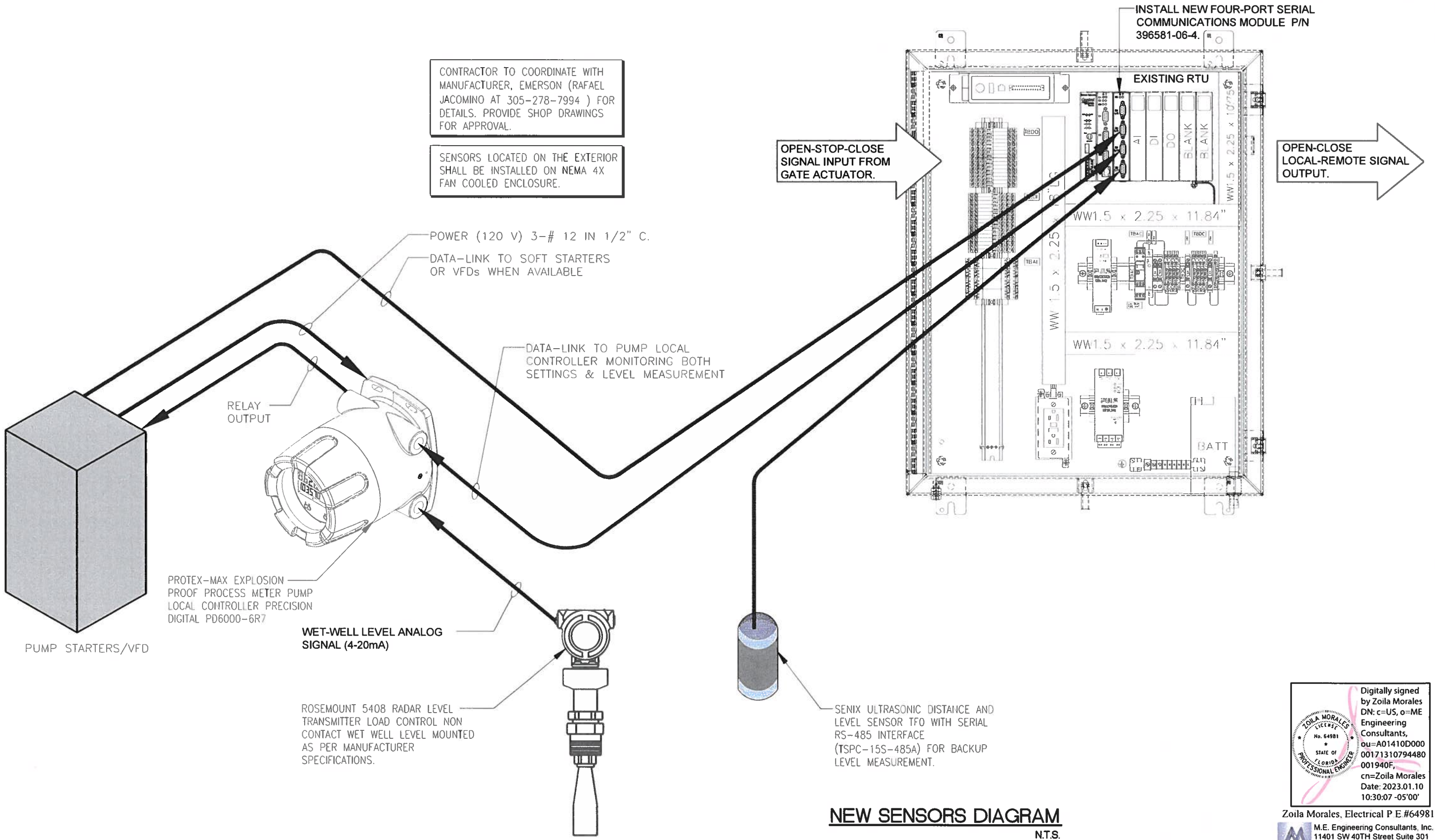
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
Z.M.	Z.M.		L.F. - M.T.	Z.M.	SEPT. 2022
CHECKED BY	Z.M.		CHECKED BY	Z.M.	

SUPERVISED BY: ZOILA MORALES



ELECTRICAL PLAN

E-102



NEW SENSORS DIAGRAM
 N.T.S.

Digitally signed by Zoila Morales
 DN: c=US, o=M.E. Engineering Consultants, ou=A01410D000, ou=00171310794480, ou=001940F, cn=Zoila Morales, Date: 2023.01.10 10:30:07 -05'00'

Zoila Morales, Electrical P E #64981
 M.E. Engineering Consultants, Inc.
 11401 SW 40TH Street Suite 301
 Ph (786)275-4635
 CA 29121

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

Belen 1
 SW 127 Ave and SW 6 St
 PUMP STATION IMPROVEMENT PROJECT

NAME	DATE	NAME	DATE
DESIGNED BY: Z.M.			
CHECKED BY: Z.M.			
SUPERVISED BY: ZOILA MORALES			



DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION
 111 NW 1 ST
 MIAMI, FL 33125

NEW SENSORS DIAGRAM

E-104

H.V.A.C. GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH FBC-2020. THE WORK THAT IS TO BE DONE UNDER THIS HEADING INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS, EQUIPMENT, PERMITS, FEES, INSPECTIONS, TEST, INSURANCE, ETC. REQUIRED FOR THE COMPLETION OF THE AIR CONDITIONING SYSTEM SHOWN ON THE DRAWINGS AND/OR LISTED BELOW.
- OBTAIN FULL INFORMATION REGARDING PECULIARITIES AND LIMITATIONS OF SPACE AVAILABLE FOR INSTALLATION OF THE EQUIPMENT AND MATERIALS UNDER CONTRACT AND PROVIDE READY ACCESSIBILITY TO DAMPERS, VALVES AND OTHER APPURTENANCES INCLUDING ANY PART OF THE SYSTEM REQUIRED TO BE REACHED FOR BALANCING, TESTING, MAINTENANCE AND OPERATION.
- PLANS ARE GENERALLY DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL AND STRUCTURAL PLANS AND ALL PLANS RELATED TO PROJECT SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION AND IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. WORK SHALL ALSO BE COORDINATED WITH STRUCTURE AND AVAILABLE SPACE TO ENSURE FIT AND PROPER CLEARANCES ARE BEING PROVIDED. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT - ENGINEER IMMEDIATELY.
- CUT ALL OPENINGS AND CHASES REQUIRED TO ACCOMMODATE THE WORK UNDER THIS DIVISION, AND REPAIR ALL FLOORS, WALLS, ETC. DAMAGED BY WORK. ALL WORK PERFORMED UNDER THIS HEADING SHALL CONFORM IN EVERY RESPECT TO THE FINISH AND QUALITY OF MATERIALS AND WORKMANSHIP SPECIFIED UNDER APPROPRIATE SECTIONS FOR THE BUILDING.
- SUBMIT SHOP DRAWINGS OF ALL MATERIALS AND EQUIPMENT FOR APPROVAL PRIOR TO FABRICATION. DUCTWORK SHOP DRAWINGS SHALL BE SUBMITTED AT 1/4" = 1'-0" SCALE AND BE COORDINATED WITH OTHER TRADES.
- CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF RECORD DRAWINGS ON SITE INDICATING ANY MODIFICATIONS TO THE DESIGNED SYSTEM LAYOUT. SET SHALL CLEARLY INDICATE ACTUAL INSTALLED CONDITIONS AND LOCATION OF ALL EQUIPMENT, PIPING, DUCTWORK, CONTROL DEVICES, ETC. RECORD SET SHALL BE ACCURATELY UPDATED WEEKLY BY THE CONTRACTOR. ACCURATE "AS-BUILT" SET SHALL BE SUPPLIED TO THE ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
- INTERRUPTIONS OF EXISTING FACILITIES AND/OR SERVICES SHALL BE KEPT TO A MINIMUM AND CONTRACTOR SHALL FURNISH ALL MATERIALS AND LABOR REQUIRED WHENEVER TEMPORARY CONNECTIONS ARE NECESSARY TO MAINTAIN CONTINUITY OF SERVICES. COORDINATE ALL INTERRUPTIONS OF SERVICES WITH THE OWNER'S REPRESENTATIVE 48 HOURS PRIOR TO SHUT DOWN.
- GUARANTEES:
 - ALL NEW EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL HAVE A 5 YEARS PRODUCT GUARANTEE FROM DATE OF START-UP.
 - CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN A 1 YEAR FROM DATE OF ACCEPTANCE.

FAN SCHEDULE

UNIT DESIGNATION		EF-1
AREA SERVED		PUMP ROOM
LOCATION		WALL
PERFORMANCE	FAN TYPE	WALL EXHAUSTER
	FAN WHEEL TYPE	CENTRIFUGAL
	TOTAL AIR CFM	2000
	AIR TEMPERATURE, °F	90
	TOTAL STATIC PRESSURE, IN. OF H2O	0.2
	BHP	0.39
	FAN SPEED, RPM	1725
	DRIVE TYPE	DIRECT
	ESTIMATED DRIVE LOSS, %	---
	MOTOR	MOTOR TYPE
MOTOR SIZE, (HP)		1/2
ELECTRICAL SERVICE AVAILABLE, ϕ /Hz/V		1/60/120
ACCESS	COMPANION CURB (PREFAB)	YES
	CURB HEIGHT, IN	---
	FIRESTATS	---
OPERATING WEIGHT, LBS		82
SONES/dBA		16.3/68
DESIGN MANUFACTURER & MODEL NUMBER		GREENHECK CUE-120-VG
FAN OPERATION		WALL MOUNTED THERMOSTAT. OPERATION SUPERVISED BY "SCADA" PANEL

HVAC DESIGN REQUIRES	YES	NO
DUCT SMOKE DETECTOR		X
FIRE DAMPER'S		X
SMOKE DAMPER'S		X
FIRE RATED ENCLOSURE		X
FIRE RATED ROOF / FLOOR		X
FIRE STOPPING		X
EXIST. SMOKE CONTROL		X

- NOTES:
- EF-1 SHALL BE PROVIDED WITH MOTORIZED DAMPER.
 - FAN OPERATING BRAKE HORSEPOWER SHALL NOT EXCEED 85% OF THE MOTOR RATED HORSEPOWER.
 - FAN AND WALL CURB ASSEMBLIES SHALL BE PROVIDED WITH MIAMI DADE APPROVAL N.O.A #21-0318.05.
 - PROVIDE DISCONNECT SWITCH.
 - PROVIDE VARI-GREEN EC MOTOR AND CONTROL.
 - PROVIDE MOTORIZED DAMPER.
 - PROVIDE WALL GRILLE.

WALL LOUVER SCHEDULE

TAG	QTY	MANUF. & MODEL	LOCATION	MATERIAL	COLOR	SIZE (WxH)	TYPE	FRAME DEPTH	AIR FLOW (CFM)	FPM	PD (IN WG.)	GENERAL NOTES
L-1	3	GREENHECK EVH-660D	SEE PLAN	EXTRUDED ALUMINUM	TO BE SELECTED BY PRIME/OWNER	43"x32"	INTAKE	6"	460	113	0.00	1.,2.

GENERAL NOTES:

- PROVIDE WITH EXTENDED SILL AND BIRD SCREENS.
- MIAMI DADE APPROVED (NOA#21-0526.07) HURRICANE LOUVER.

(*) EQUIVALENT MANUFACTURER: RUSKIN



Alexei Hidalgo, Mechanical P E #70807

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CA 29121

REVISIONS							
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Belen 1
SW 127 Ave and SW 6 St
PUMP STATION IMPROVEMENT PROJECT

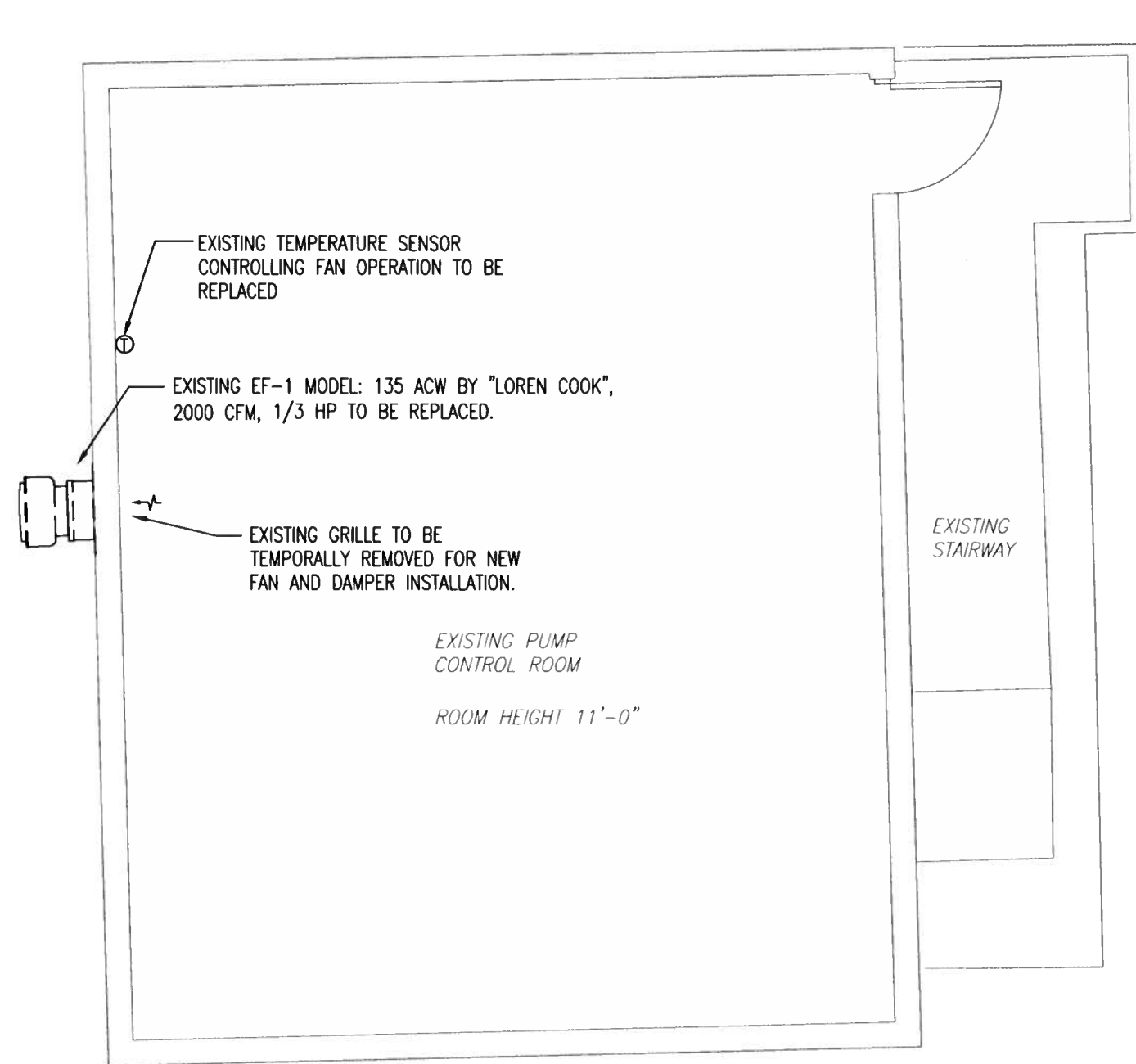
	NAME	DATE		NAME	DATE
DESIGNED BY	Z.M.		DRAWN BY	L.F. - M.T.	SEPT. 2022
CHECKED BY	Z.M.		CHECKED BY	Z.M.	
SUPERVISED BY: ZOLA MORALES					



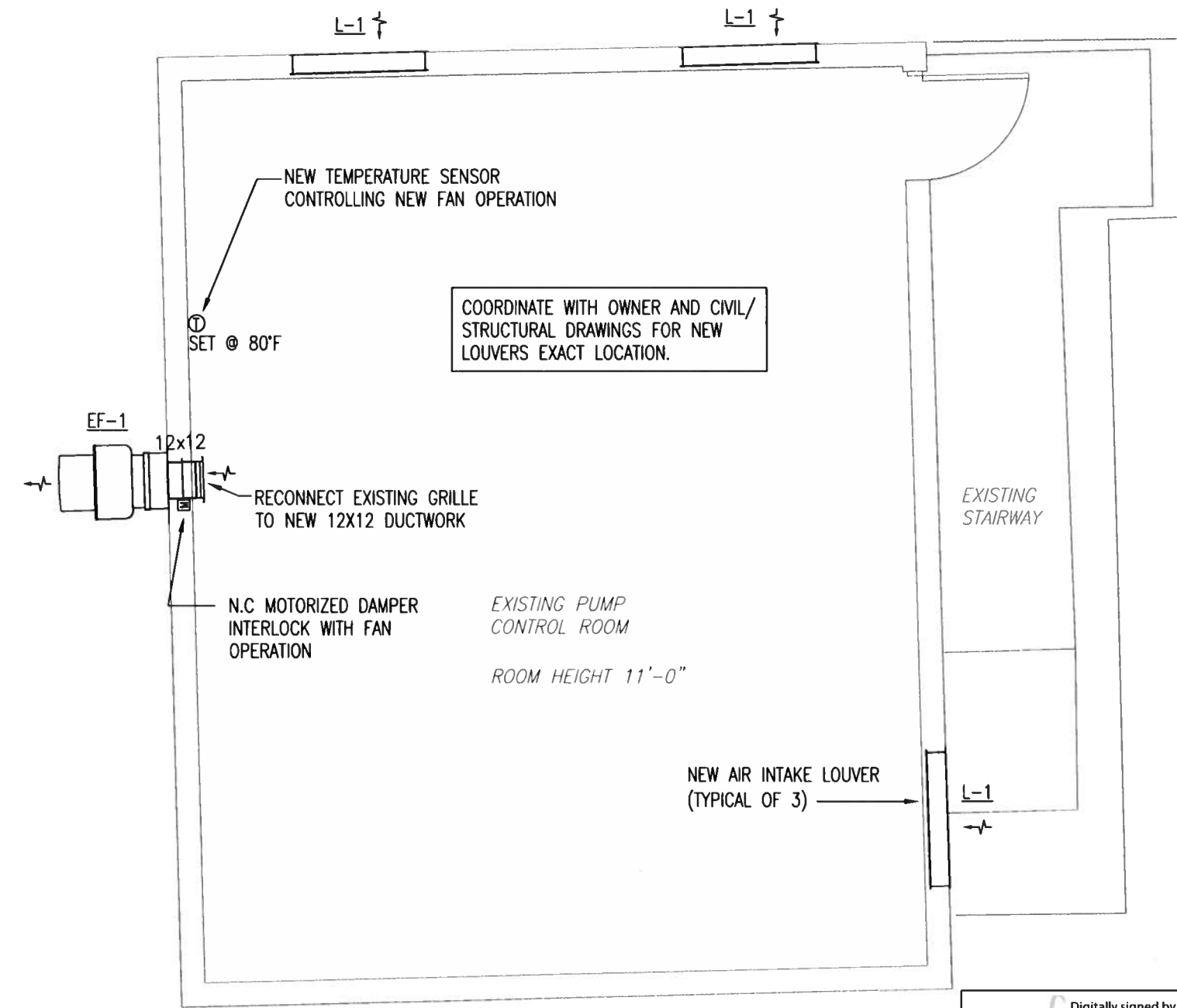
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION
STEPHEN P. CLARK, CENTER
111 102 1 ST
MIAMI, FLORIDA 33130

GENERAL MECHANICAL NOTES AND SCHEDULES

M-101



PUMP CONTROL ROOM DEMO MECHANICAL PLAN
SCALE: 1/4"=1'-0"



PUMP CONTROL ROOM NEW MECHANICAL PLAN
SCALE: 1/4"=1'-0"

Digitally signed by
Alexei Hidalgo
DN: c=US, o=ME
ENGINEERING
CONSULTANTS,
ou=A01410C0000
01735EF9C55A000
02ADF, cn=Alexei
Hidalgo
Date: 2023.01.10
11:06:50 -05'00'

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CA 29121

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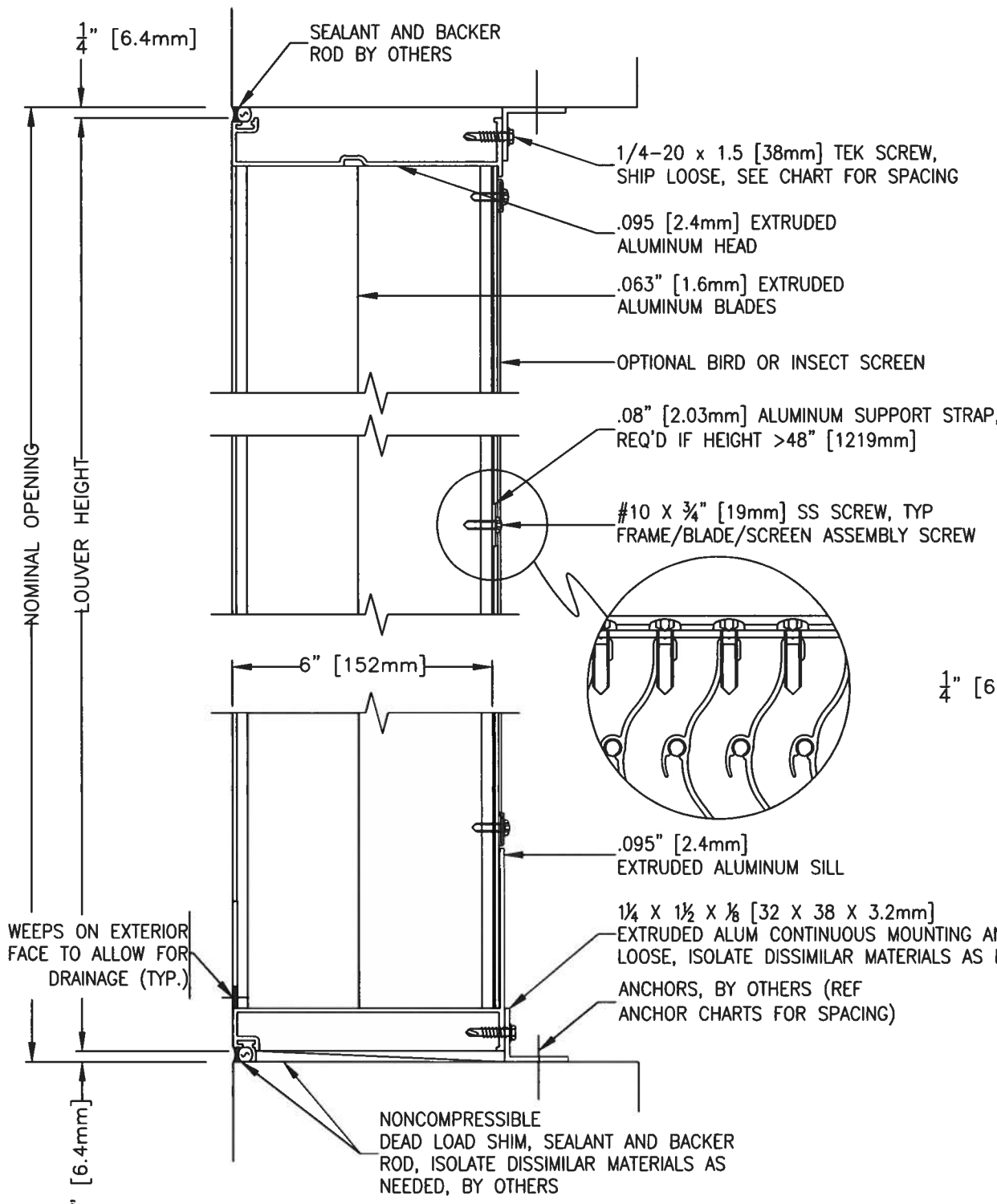
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SUPERVISED BY: ZOLA MORALES			

MIAMI-DADE
DEPARTMENT OF TRANSPORTATION
AND PUBLIC WORKS
ROADWAY ENGINEERING AND
RIGHT OF WAY DIVISION
STEPHEN P. CLARK, CHIEF
1000 N. ST.
MIAMI, FLORIDA 33132

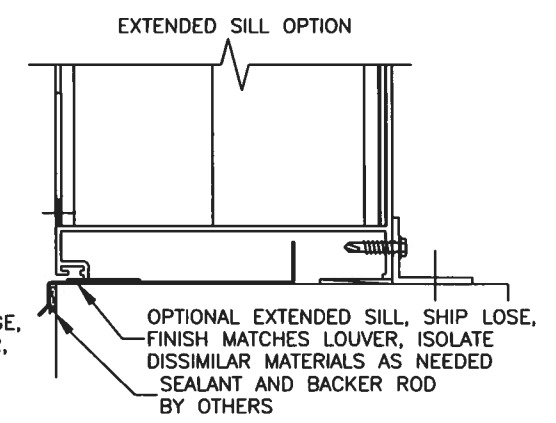
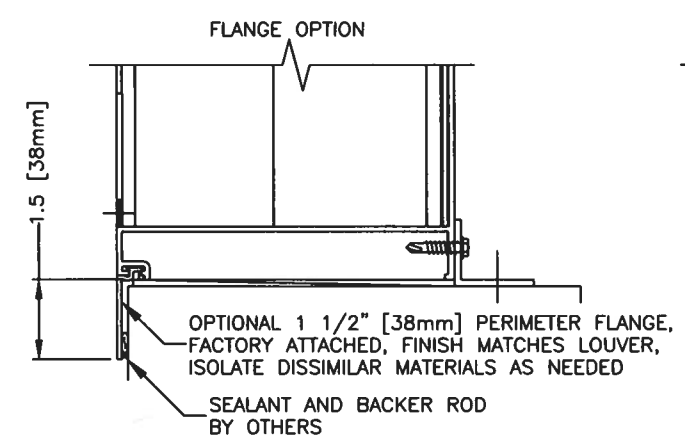
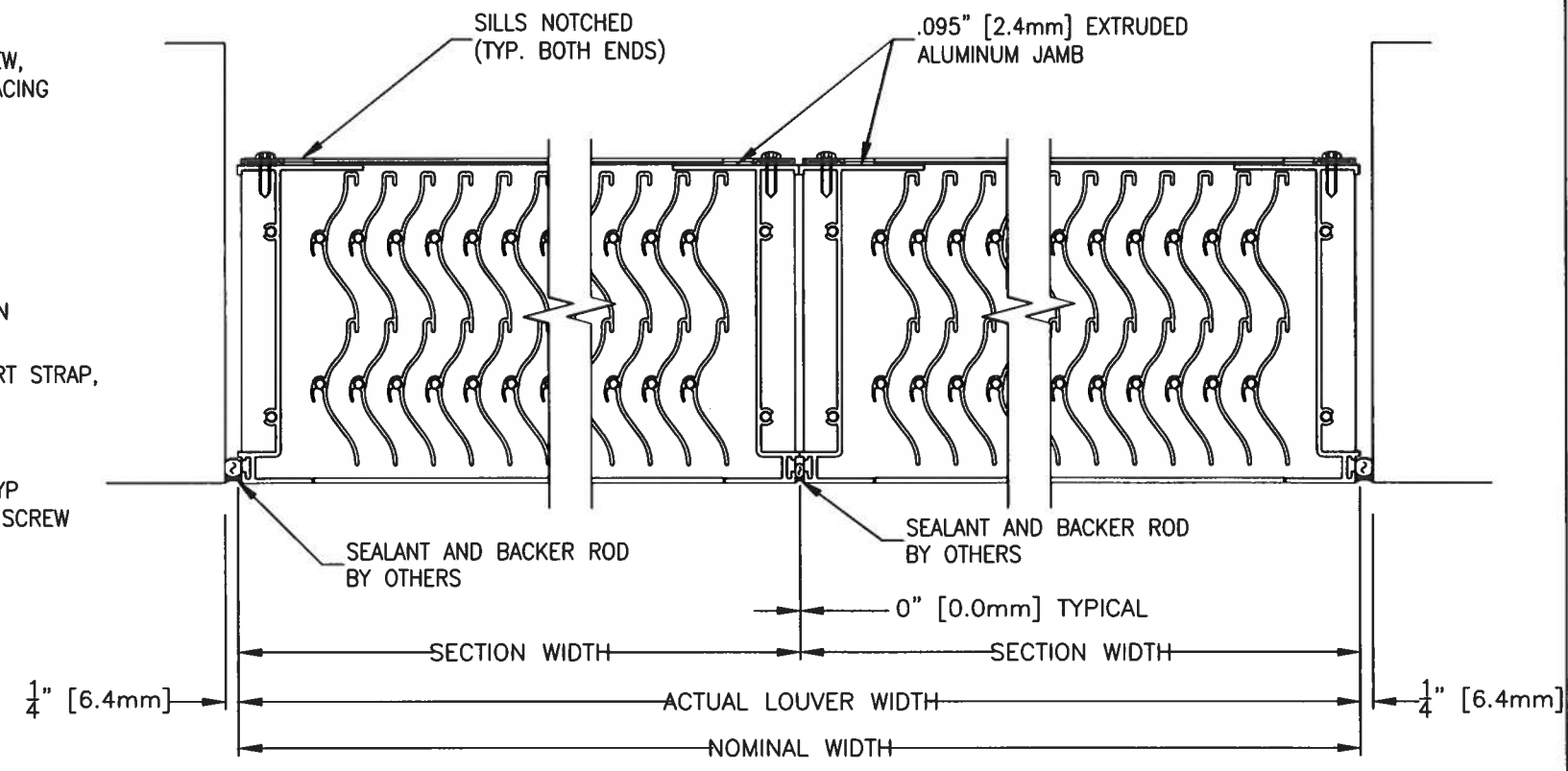
PUMP CONTROL ROOM DEMO
AND NEW MECHANICAL PLANS

M-102



DETAIL B: SILL

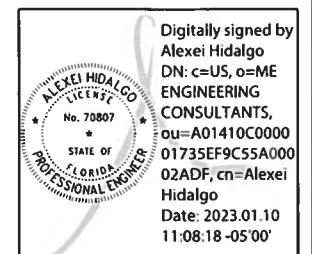
DETAIL C: JAMB DETAIL D: MULLION



WEATHERPROOF MIAMI-DADE COUNTY APPROVED LOUVER TYPICAL OF "GREENHECK" MODEL No. EVH-660D (NOA 21-0526.07). LOUVER MUST BE MIAMI-DADE COUNTY TAS-100A/AMCA 550 (WIND DRIVEN RAIN WITHOUT MOTORIZED DAMPER) RATED.

TYPICAL WEATHERPROOF LOUVER DETAIL

NO SCALE



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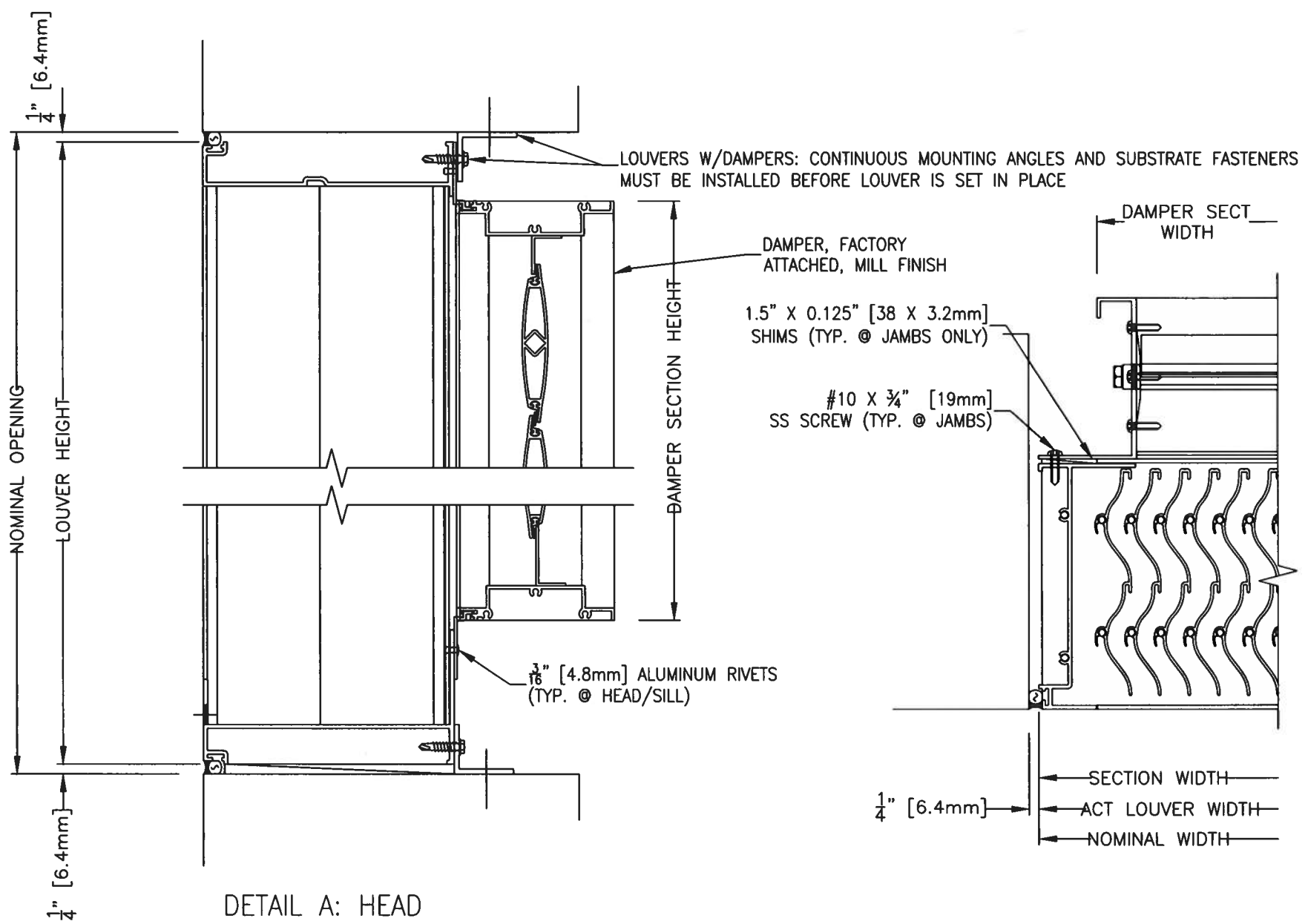
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TYPICAL WEATHERPROOF LOUVER DETAIL

M-103

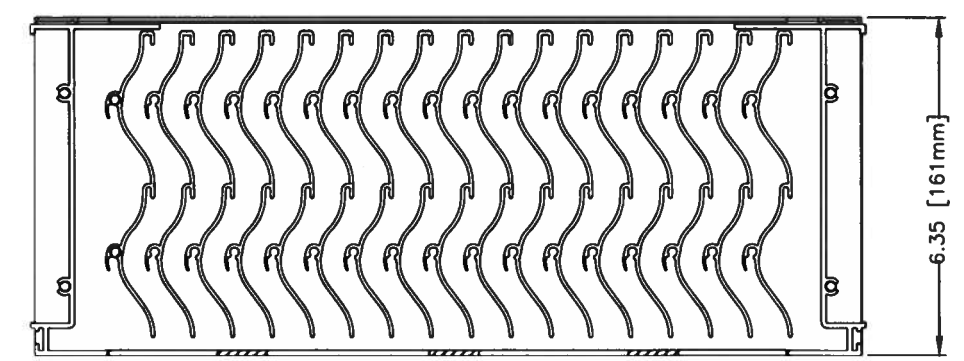


DETAIL A: HEAD

CONTINUOUS ANGLE TO LOUVER FRAME SCREW	
LOUVER HEIGHT (IN.)	SPACING (IN.)
>84	2
≤84	4

WOOD OR STEEL ANCHORING

LAG SCREW, SCREW, & BOLT W/NUT FASTENER TABLE				
DESCRIPTION	3/8" LAG SCREW	1/4" LAG SCREW	1/4"-20 SCREW OR BOLT W/NUT	
SUBSTRATE	WOOD		STEEL	
MINIMUM	G=42		A36 STEEL OR Fy>=36 KSI	
EDGE DISTANCE (MIN)	1-1/2 IN.		1/2 IN.	
PENETRATION (MIN)	2-3/4 IN.		16GA (0.06 IN.)	3/16 IN.
LOUVER HEIGHT (IN.)	SPACING (IN.)		SPACING (IN.)	
>84 & ≤120	6	4	6	6
>0 & ≤84	6	6	6	6



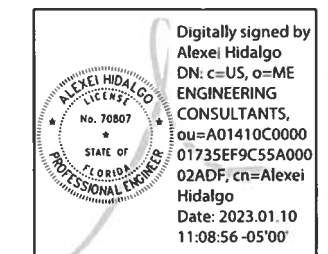
CONCRETE OR CMU ANCHORING

1/4" TAPCON SCREW FASTENER TABLE			
DESCRIPTION	1/4" TAPCON		
SUBSTRATE	CONCRETE OR CMU (GROUT FILLED)		
MINIMUM	3.192 KSI CONCRETE OR 3.192 KSI GROUT		
EDGE DISTANCE (MIN)	1 IN.	1-1/2 IN.	2-1/2 IN.
PENETRATION (MIN)	1-3/4 IN.		
LOUVER HEIGHT (IN.)	SPACING (IN.)		
>108 & ≤120	2	2	4
>96 & ≤108	2	4	4
>72 & ≤96	2	4	6
>48 & ≤72	4	6	6
>0 & ≤48	6	6	6

3/8" POWERS WEDGE BOLT FASTENER TABLE					
DESCRIPTION	3/8" POWERS WEDGE BOLT				
SUBSTRATE	NORMAL WEIGHT CONCRETE			CMU (1.5 KSI GROUT FILLED)	
MINIMUM	2.5 KSI			6" WIDE, GRADE N, TYPE II, LIGHT/MEDIUM/NORMAL WEIGHT CMU CONFORMING TO ASTM C90	
EDGE DISTANCE (MIN)	2 IN.	3 IN.	4-1/2 IN.	1-1/2 IN.	2 IN.
PENETRATION (MIN)	2-1/8 IN.			2-1/2 IN.	
LOUVER HEIGHT (IN.)	SPACING (IN.)			SPACING (IN.)	
>108 & ≤120	4	6	6	NOT ALLOWED	NOT ALLOWED
>72 & ≤108	6	6	6	NOT ALLOWED	NOT ALLOWED
>36 & ≤72	6	6	6	NOT ALLOWED	6
>0 & ≤36	6	6	6	6	6

TYPICAL WEATHERPROOF LOUVER DETAIL

NO SCALE



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HORIZONTAL SUPPORT

MODEL	H	J	K	QTY.	VERTICAL SUPPORT
CUE/CW-060-065-070-075	4.68	1.03	2.0	4	16 GA. GALV. G90
CUE/CW-080-085-090-095	4.68	1.03	2.0	4	16 GA. GALV. G90
CUE/CW-098-099-100/101/HP-120/121-130/131	5.18	1.03	2.0	4	16 GA. GALV. G90
CUE/CW-140/141/HP-160/161/HP	4.68	1.03	2.0	4	16 GA. GALV. G90
CUE-142HP-162HP	4.68	1.03	2.0	4	16 GA. GALV. G90
CUE/CW-180/HP-200/HP	5.72	1.03	2.0	6	16 GA. GALV. G90
CUE/CW-098-099-100/101/HP-120/121-130/131	5.18	1.03	2.0	4	16 GA. GALV. G90
CUE/CW-141/HP-161/HP/XP	4.68	1.03	2.0	4	16 GA. GALV. G90
CUE/CWB-180/HP-200/HP	5.72	1.03	2.0	6	16 GA. GALV. G90
CUE/CWB-220/HP-240/HP/XP	7.25	1.03	2.0	6	16 GA. GALV. G90
CUE/CWB-300/HP/XP	7.94	1.55	2.5	6	14 GA. GALV. G90
S-CUBE-100/101/HP-120/121-130/131	5.18	1.03	2.0	4	16 GA. GALV. G90
S-CUBE-140/141/HP-160/161/HP	4.68	1.03	2.0	4	16 GA. GALV. G90
S-CUBE-200	5.72	1.03	2.0	6	16 GA. GALV. G90
S-CUBE-240	7.25	1.03	2.0	6	16 GA. GALV. G90
S-CUBE-300	7.94	1.55	2.5	6	14 GA. GALV. G90

VERTICAL SUPPORT

MODEL	L	M	N	QTY.	VERTICAL SUPPORT
CUE/CW-060-065-070-075-080-085-090	7.44	0.93	0.56	4	16 GA. GALV. G90
CUE/CW-095	8.89	0.93	0.56	4	16 GA. GALV. G90
CUE/CW-098-099-100/101/HP-120/121-130/131	9.47	0.93	0.56	4	16 GA. GALV. G90
CUE/CW-140/141/HP-160/161/HP	10.88	0.93	0.56	4	16 GA. GALV. G90
CUE/CW-160/161HP-162HP	7.44	0.93	0.56	4	16 GA. GALV. G90
CUE/CW-180-200	12.78	0.93	0.56	6	16 GA. GALV. G90
CUE/CW-180HP	10.88	0.93	0.56	6	16 GA. GALV. G90
CUE/CWB-098-099-100/101/HP-120/121-130/131	9.47	0.93	0.56	4	16 GA. GALV. G90
CUE/CWB-140/141/HP-160/161HP	10.88	0.93	0.56	4	16 GA. GALV. G90
CUE/CWB-160/161XP	8.63	0.93	0.56	4	16 GA. GALV. G90
CUE/CWB-180/HP-200/HP	12.78	0.93	0.56	6	16 GA. GALV. G90
CUE/CWB-240HP	12.78	0.93	0.56	6	16 GA. GALV. G90
CUE/CWB-300/HP	18.09	1.39	0.69	6	14 GA. GALV. G90
CUE/CWB-300XP	13.13	1.39	0.69	6	14 GA. GALV. G90
S-CUBE-100/101/HP-120/121-130/131	9.47	0.93	0.56	4	16 GA. GALV. G90
S-CUBE-140/141/HP-160/161/HP	10.88	0.93	0.56	4	16 GA. GALV. G90
S-CUBE-200	12.78	0.93	0.56	6	16 GA. GALV. G90
S-CUBE-240	17.60	0.93	0.56	6	16 GA. GALV. G90
S-CUBE-300	18.09	1.39	0.69	6	14 GA. GALV. G90

MOUNTING PLATE
1 REQ'D PER UNIT

HOOBBAND CLIPS

MODEL	R	S	T	SUPPORT PAN
CW-060-065-070-075	14.75	11.75	4	18 GA. GALV. G90
CW-080-085-090-095	17.88	15.00	4	18 GA. GALV. G90
CW-098-099-100/101/HP-120/121-130/131	19.75	16.88	4	18 GA. GALV. G90
CW/CWB-141/HP-161/HP	22.13	19.38	4	18 GA. GALV. G90
CW/CWB-180/HP-200	27.75	25.60	6	18 GA. GALV. G90
CWB-220/HP-240/HP	31.25	28.38	6	18 GA. GALV. G90
CWB-300/HP	38.38	35.84	6	18 GA. GALV. G90

SUPPORT PAN
1 REQ'D PER UNIT

MODEL	P	Q	SUPPORT PAN
CUE/CW-060-065-070-075	12.31	1.75	18 GA. GALV. G90
CUE/CW-080-085-090-095	14.19	1.94	18 GA. GALV. G90
CUE/CW-098-099	18.38	3.94	18 GA. GALV. G90
CUE/CW-100/101/HP	18.38	3.19	18 GA. GALV. G90
CUE/CW-120/121	18.38	4.94	18 GA. GALV. G90
CUE/CW-130/131	18.38	4.44	18 GA. GALV. G90
CUE/CW-140/141/HP-160/161/HP	20.88	2.41	18 GA. GALV. G90
CUE-142HP-162HP	20.88	2.41	18 GA. GALV. G90
CUE/CW-180/HP-200/HP	25.06	3.48	18 GA. GALV. G90
CUE/CWB-098-099-100/101/HP-120/121-130/131	18.38	2.75	18 GA. GALV. G90
CUE/CWB-140/141/HP-160/161/HP/XP	20.88	1.5	18 GA. GALV. G90
CUE/CWB-180/HP-200/HP	25.06	1.19	18 GA. GALV. G90
CUE/CWB-220/HP-240/HP/XP	28.75	1.19	18 GA. GALV. G90
CUE/CWB-300/HP/XP	35.88	1.19	18 GA. GALV. G90
S-CUBE-100/101/HP-120/121-130/131	19.38	2.75	18 GA. GALV. G90
S-CUBE-140/141/HP-160/161/HP	20.88	1.50	18 GA. GALV. G90
S-CUBE-200	25.06	1.19	18 GA. GALV. G90
S-CUBE-240	28.75	1.19	18 GA. GALV. G90
S-CUBE-300	35.88	1.19	18 GA. GALV. G90

PRODUCT REVISED
 as complying with the Florida Building Code
 NOA-No. **21-0318.05**
 Expiration Date **09/23/2024**
 By: Miami-Dade Product Control

Robert J. Amoroso, P.E.
 FL P.E. No. 49752
 PTC Product Design Group
 PO Box 520775
 Longwood, Florida 32752-0775
 info@ptc-corp.com
 FBPE Cert. of Auth. No. 25935

FAN TO CURB OR WALL BRACKET MOUNTING - LOCATION A

UNIT SIZE	FASTENERS	
	PER SIDE	TOTAL
CUE-060-065-070-075-080-085-090-095-098-099-100/101-120/121-130/131-140/141/HP-142HP-160/161/HP-162HP	3	12
CUE-098-099-100/101/HP-120/121-130/131-140/141/HP-160/161/HP/XP		
CUE-180/HP-200/HP	5	20
CUBE-180/HP-200/HP-220/HP-240/HP/XP		
CUBE-300/HP/XP	9	36

FASTENERS ON EACH SIDE OF THE FAN ARE TO BE INSTALLED WITH ONE FASTENER 4 INCHES FROM EACH EDGE AND ONE FASTENER CENTERED. THE FASTENERS ARE TO BE EQUALLY SPACED 1/8 INCH SELF-DRILLING SCREWS. WALL BRACKETS SHALL USE 1/2-20 S.S. BOLTS.

CWB/CW MOUNTING - LOCATION C

UNIT SIZE	ND. OF FASTENERS	
	TOTAL	
060-161	8	
180-300	12	

CURB OR WALL BRACKET TO WALL MOUNTING - LOCATION B

UNIT SIZE	CONCRETE ANCHORING		STEEL DECK ANCHORING		TIMBER ANCHORING	
	PER SIDE	TOTAL	PER SIDE	TOTAL	PER SIDE	TOTAL
CUE/CUBE ≤ 161	2	8	2	8	2	8
CUE/CUBE > 161	3	12	3	12	4	16

FASTENERS NEED TO BE LOCATED ON ALL 4 SIDES OF FAN CURB, EITHER TOP AND BOTTOM OR LEFT AND RIGHT SIDES.

CONCRETE DECK ANCHORING

2500 MIN. PSI CONCRETE
 CURB
 3/8" S.S. HILTI KWIK BOLT T2 EXPANSION ANCHORS
 MIN. 2.00" ENGAGEMENT
 SEE TABLE FOR QTY.
 (4" MIN. EDGE DISTANCE)
 4" MINIMUM WALL THICKNESS WHEN USING CONCRETE ANCHORS

STEEL ANCHORING

STRUCTURAL STEEL
 1/2" THICK OR 12 GA. MIN.
 CURB
 1/4" - 18 SELF-DRILLING SCREW
 MIN. 3" OF THREADS THROUGH
 SEE TABLE FOR QTY.
 (0.625" MIN. EDGE DISTANCE)

TIMBER ANCHORING

WOOD TIMBER
 MIN. 4" NOM. THICKNESS
 MIN. G = 0.42
 CURB
 1/2" LAG SCREW (ZINC PLATED)
 (2" MIN. EDGE DISTANCE)

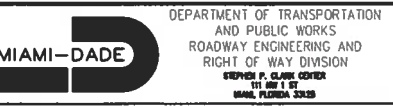
WALL SUBSTRATE DETAILS - LOCATION B AND C

MIAMI-DADE COUNTY APPROVED FAN TYPICAL OF "GREENHECK" MODEL No. CUE-095-VG (NOA 21-0318.05).
TYPICAL WALL MOUNTED EXHAUST FAN INSTALLATION DETAIL AND WIND LOAD CALCULATIONS
 NO SCALE

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Belen 1
 SW 127 Ave and SW 6 St
 PUMP STATION IMPROVEMENT PROJECT

DESIGNED BY	DATE	DRAWN BY	DATE
ZM		L.F. - M.I.	SEPT 2022
ZM		ZM	



TYPICAL WALL MOUNTED EXHAUST FAN INSTALLATION DETAIL AND WIND LOAD CALCULATIONS

Digitally signed by Alexei Hidalgo
 DN: c=US, o=ME ENGINEERING CONSULTANTS, ou=A01410C0000, ou=01735EF9C55A000, ou=02ADF, cn=Alexei Hidalgo
 Date: 2023.01.10 11:11:17 -0500'

Alexei Hidalgo, Mechanical P E #70807

M.E. Engineering Consultants, Inc.
 11401 SW 40TH Street Suite 301
 Ph: (786)275-4635
 CA 29121

MODEL	FASTENER G	FASTENER H	FASTENER J	FASTENER K
QTY	DESCRIPTION	QTY	DESCRIPTION	QTY
CUE/VCV-060-065-070-075-080-085-090-095	12 EA	4		
CUE/VCV-099-100/101/HP-120/121-130/131-140/141/HP-160/161/HP	16 EA	4		
CUE/VCV-180/HP-200	24 EA	6		
CUBE/CVB-098-099-100/101/HP-120/121-130/131-140/141/HP-160/161/HP/HP	16 EA	4	SCREW, 1/2" x 3/8" 5052 ALUM.	4
CUBE/CVB-180/HP-200/HP-220/HP-240/HP	24 EA	6		
S-CUBE-100/101/HP-120/121-130/131-140/141/HP-160/161/HP	16 EA	4		
S-CUBE-200-240-300	24 EA	6		

MODEL	A	B	C	D	E	F	WEIGHT (LBS)
CUE/VCV-060	17.00	1.75	13.13	15.41	18.38	12.63	29
CUE/VCV-065	17.00	1.75	13.13	15.41	18.38	12.63	29
CUE/VCV-070	17.00	1.75	13.13	15.41	18.38	12.63	29
CUE/VCV-075	17.00	1.75	13.13	15.41	18.38	12.63	29
CUE/VCV-080	19.00	1.75	13.13	15.37	21.00	14.38	40
CUE/VCV-085	19.00	1.75	13.13	15.37	21.00	14.38	40
CUE/VCV-090	19.00	1.75	13.13	15.37	21.00	14.38	40
CUE/VCV-095	19.00	1.75	13.13	15.37	21.00	14.38	40
CUE/VCV-099	19.00	1.75	13.13	15.37	21.00	14.38	40
CUE/VCV-100/HP	19.00	1.75	13.13	15.37	21.00	14.38	40
CUE/VCV-120/121 & CW-121	19.00	1.75	13.13	15.37	21.00	14.38	40
CUE-130/131 & CW-131	19.00	1.75	13.13	15.37	21.00	14.38	40
CUE-140/141/HP & CW-141/HP	22.00 OR 26.00	1.75	20.35	32.20	27.63	21.00	90
CUE-142HP	24.00	1.75	20.35	32.20	27.63	21.00	90
CUE-160/161/HP & CW-161/HP	22.00 OR 26.00	1.75	20.35	32.20	27.63	21.00	90
CUE-162HP	24.00	1.75	20.35	32.20	27.63	21.00	90
CUE-180/HP & CW-180/HP	30.00	1.75	22.72	31.57	35.50	25.20	142
CUE-200/HP & CW-200	30.00	1.75	22.72	31.57	35.50	25.20	142
CUBE/CVB-098	19.00	1.75	19.50	27.00	23.63	18.63	58
CUBE/CVB-099	19.00	1.75	19.50	27.00	23.63	18.63	58
CUBE/CVB-100/HP	19.00	1.75	19.50	27.00	23.63	18.63	58
CUBE-120/121 & CW-121	19.00	1.75	19.50	27.00	23.63	18.63	58
CUBE-130/131 & CW-131	19.00	1.75	19.50	27.00	23.63	18.63	58
CUBE-140/141/HP & CW-141/HP	22.00 OR 26.00	1.75	20.35	32.20	27.63	21.00	84
CUBE-160/161/HP & CW-161/HP	22.00 OR 26.00	1.75	20.35	32.20	27.63	21.00	84
CUBE-180/HP & CW-180/HP	30.00	1.75	22.72	31.57	35.50	25.20	126
CUBE-200/HP & CW-200	30.00	1.75	22.72	31.57	35.50	25.20	126
CUBE/VCV-220/HP	34.00	1.75	27.25	40.00	40.88	29.20	174
CUBE-240/HP/XP & CUB-240/HP/XP	34.00	1.75	27.25	40.00	40.88	29.20	174
CUBE-300/HP/XP & CUB-300/HP/XP	40.00	1.75	30.84	44.50	48.31	36.02	313
S-CUBE-100/101/HP	19.00	1.75	19.50	27.00	23.63	18.63	58
S-CUBE-120/121	19.00	1.75	19.50	27.00	23.63	18.63	58
S-CUBE-130/131	19.00	1.75	19.50	27.00	23.63	18.63	58
S-CUBE-140/141/HP	22.00	1.75	20.35	32.20	27.63	21.00	84
S-CUBE-160/161/HP	22.00	1.75	20.35	32.20	27.63	21.00	84
S-CUBE-200	30.00	1.75	22.72	31.57	35.50	25.20	126
S-CUBE-240	34.00	1.75	27.25	40.00	40.88	29.20	174
S-CUBE-300/HP	40.00	1.75	30.84	44.50	48.31	36.02	313

MODEL NAME EQUIVALENTS

MODEL	GREENHECK	ACCUREX	VENCO
CUE	XRUJ	VUCB	
CUB	XSEB	VUCB	
CVB	XSEB	VUCB	

DESIGN LIMITS

MAX DESIGN LOAD	±150 psf (3.6 Kpa)
MAX OVERALL ENCLOSURE DIA	48.31 in. (1227 mm)
MAX OVERALL UNIT HEIGHT	44.50 in. (1130 mm)

ALL DIMENSIONS ARE IN INCHES

Robert J. Amoroso, P.E.
 FL P.E. No. 49752
 PTC Product Design Group
 PO Box 520775
 Longwood, Florida 32752-0775
 info@ptc-corp.com
 FBPE Cert. of Auth. No. 25935

HOODBAND ASSY. 1 REQD. PER UNIT

MODEL	C	D	HOOD
CUE/CW-060-065-070-075	18.38	14.75	12.53
CUE/CW-080-085-090-095	18.38	14.75	14.38
CUE/CW-098-099-100/101/HP-120/121-130/131	18.43	12.00	18.63
CUE/CW-140/141/HP-160/161/HP	20.94	14.25	21.25
CUE-142HP-162HP	20.94	14.25	21.25
CUE/CW-180/HP-200/HP	23.13	14.83	25.44
CUE/CW-098-099-100/101/HP-120/121-130/131	18.43	12.00	18.63
CUE/CW-140/141/HP-160/161/HP	20.94	14.25	21.25
CUE-142HP-162HP	20.94	14.25	21.25
CUE/CW-180/HP-200/HP	23.13	14.83	25.44
CUE/CW-098-099-100/101/HP-120/121-130/131	18.43	12.00	18.63
CUE/CW-140/141/HP-160/161/HP	20.94	14.25	21.25
CUE-142HP-162HP	20.94	14.25	21.25
CUE/CW-180/HP-200/HP	23.13	14.83	25.44
CUE/CW-098-099-100/101/HP-120/121-130/131	18.43	12.00	18.63
CUE/CW-140/141/HP-160/161/HP	20.94	14.25	21.25
CUE-142HP-162HP	20.94	14.25	21.25
CUE/CW-180/HP-200/HP	23.13	14.83	25.44
S-CUBE-100/101/HP-120/121-130/131	18.43	12.00	18.63
S-CUBE-140/141/HP-160/161/HP	20.94	14.25	21.25
S-CUBE-200	23.13	14.83	25.44
S-CUBE-240	25.44	15.41	27.63
S-CUBE-300	27.63	16.00	29.81

WINDBAND ASSY. 1 REQD. PER UNIT

MODEL	C	F	G	WINDBAND	CURB CAP
CUE-060-065-070-075	18.38	17.00	11.38	0.051 ALUM 1100-H&Z	
CUE-080-085-090	18.00	19.00	11.38	0.051 ALUM 1100-H&Z	
CUE-095	21.00	19.00	12.44	0.051 ALUM 1100-H&Z	
CUE-098-099-100/101/HP-120/121-130/131	23.63	19.00	17.48	0.051 ALUM 1100-H&Z	
CUE-140/141/HP-160/161/HP	27.63	22.00	18.64	0.051 ALUM 1100-H&Z	0.063 ALUM 100-H&Z/H&I
CUE-142HP-162HP	27.63	22.00	18.64	0.051 ALUM 1100-H&Z	0.063 ALUM 100-H&Z/H&I
CUE-180/HP-200/HP	34.13	30.00	20.97	0.063 ALUM 1100-H&Z	
CUE-098-099-100/101/HP-120/121-130/131	23.63	19.00	17.75	0.051 ALUM 1100-H&Z	
CUE-140/141/HP-160/161/HP	27.63	22.00	18.64	0.051 ALUM 1100-H&Z	0.063 ALUM 100-H&Z/H&I
CUE-142HP-162HP	27.63	22.00	18.64	0.051 ALUM 1100-H&Z	0.063 ALUM 100-H&Z/H&I
CUE-180/HP-200/HP	34.13	30.00	20.97	0.063 ALUM 1100-H&Z	
CUE-220/HP-240/HP/XP	40.88	34.00	25.50	0.063 ALUM 1100-H&Z	
CUE-300/HP/XP	48.31	40.00	29.99	0.080 ALUM 1100-H&Z	
S-CUBE-100/101/HP-120/121-130/131	23.63	19.00	17.75	0.051 ALUM 1100-H&Z	
S-CUBE-140/141/HP-160/161/HP	27.63	22.00	18.64	0.051 ALUM 1100-H&Z	
S-CUBE-200	35.50	30.00	20.97	0.063 ALUM 1100-H&Z	
S-CUBE-240	40.88	34.00	25.50	0.063 ALUM 1100-H&Z	
S-CUBE-300	48.31	40.00	29.99	0.080 ALUM 1100-H&Z	

NOTES:

- MODELS CUE, CUBE, CW, and CUB HAVE BEEN SUCCESSFULLY TESTED IN ACCORDANCE WITH MIAMI DADE TEST PROTOCOL TAS-201 (LARGE MISSILE IMPACT), TAS-203 (CYCLIC WIND LOADING) AND TAS-202 (STATIC LOADING).
- THIS APPROVAL IS FOR THE STRUCTURAL PERFORMANCE AND IMPACT RESISTANCE ONLY. INTERIOR MECHANISM AND/OR ELECTRICAL CIRCUITRY ARE OUTSIDE THE SCOPE OF THIS APPROVAL.
- DESIGN TESTING AND INSTALLATION CONFORMS TO AISC MANUAL OF STEEL CONSTRUCTION AND ALUMINUM DESIGN MANUAL.
- FAN CURBS MUST BE ANCHORED TO ROOF FRAMING MEMBERS AND NOT TO THE ROOFING SYSTEM.
- ROOF STRUCTURE MUST BE DESIGNED TO WITHSTAND THE WEIGHT AND LOADING TRANSMITTED BY ROOF TOP FANS. FASTENERS SHALL BE AS SPECIFIED AND INSTALLED AS DETAILED.
- DESIGN, TESTING, AND INSTALLATION CONFORMS TO FLORIDA BUILDING CODE.
- THIS PRODUCT HAS NOT BEEN TESTED FOR WATER PENETRATION ACCORDING TO FLORIDA BUILDING CODE, TAS 100(A), WIND DRIVEN RAIN TEST. IT CANNOT BE INSTALLED WITHIN THE ROOF AREA. FBC 1523.6.5.2-1.3

MIAMI-DADE COUNTY APPROVED FAN TYPICAL OF "GREENHECK" MODEL No. CUE-095-VG (NOA 21-0318.05).
TYPICAL WALL MOUNTED EXHAUST FAN INSTALLATION DETAIL AND WIND LOAD CALCULATIONS

NO SCALE

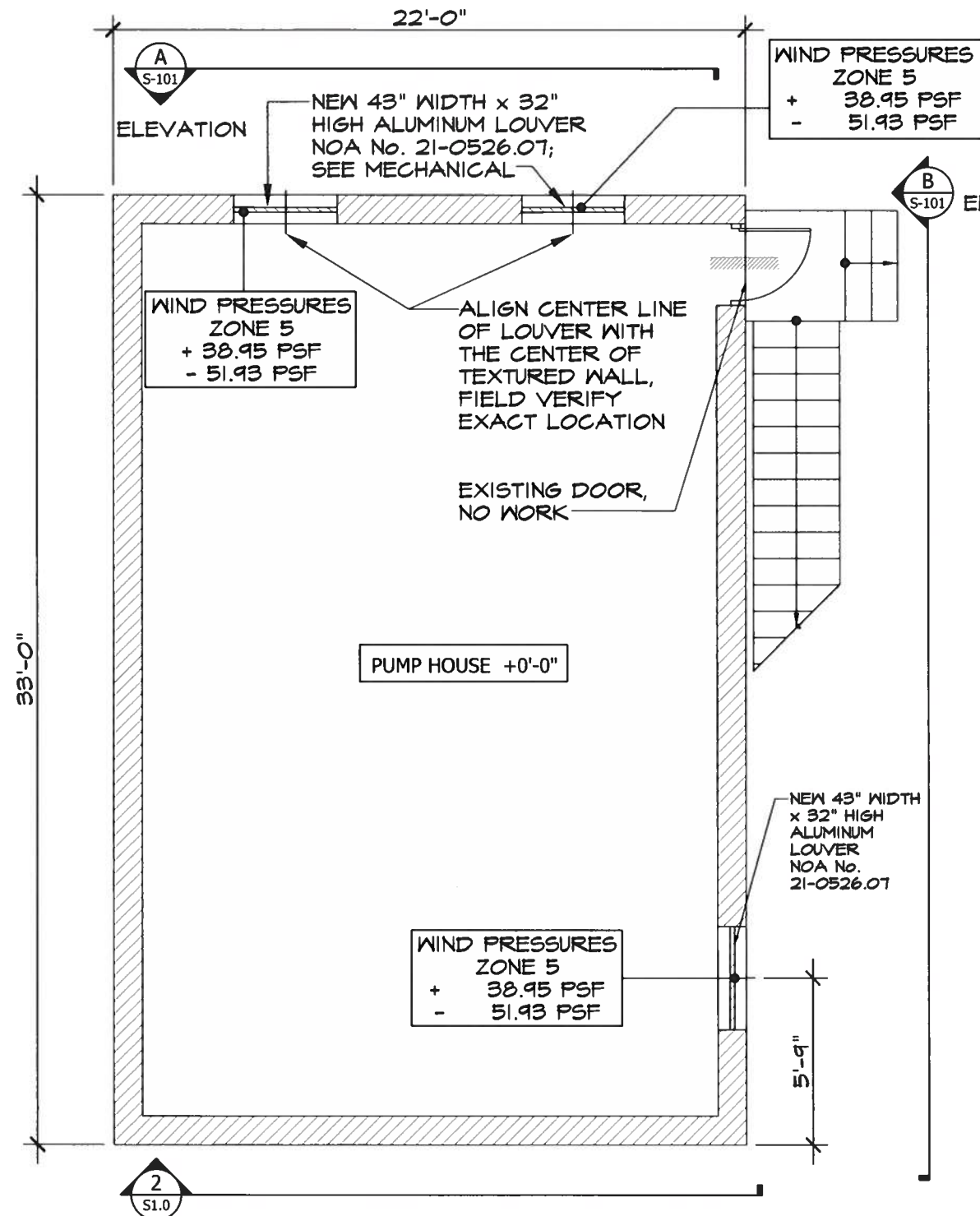
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Alexei Hidalgo, Mechanical P E #70807
 M.E. Engineering Consultants, Inc.
 11401 SW 40TH Street Suite 301
 Ph:(786)275-4635
 CA 29121

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

NAME	DATE	NAME	DATE
DESIGNED BY: ZM		DRAWN BY: L.F. - M.T.	SEPT 2022
CHECKED BY: ZM		CHECKED BY: ZM	
SUPERVISED BY: ZOLA MORALES			

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION STEVEN P. CLARK, CENTER 101 NW 1 ST MIAMI, FLORIDA 33138	MIAMI-DADE	M-106
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WIND PRESSURES
ZONE 5
+ 38.95 PSF
- 51.93 PSF

WIND PRESSURES
ZONE 5
+ 38.95 PSF
- 51.93 PSF

WIND PRESSURES
ZONE 5
+ 38.95 PSF
- 51.93 PSF

MAXIMUM WIND PRESSURE (ASD)
LOUVER RATED AT : + 150 PSF
- 150 PSF

- GENERAL NOTES:
- ALL WORK SHALL BE IN ACCORDANCE TO THE FLORIDA BUILDING CODE, 2020 EDITION.
 - WIND PRESSURE DESIGN CRITERIA IN ACCORDANCE TO ASCE 7-16
 - WIND VELOCITY = 175 MPH
 - EXPOSURE = C
 - CATEGORY = II
 - BUILDING HEIGHT = 20'-0"
 - LOUVER FRAME ANCHORAGE TO MAIN STRUCTURE SHALL BE IN STRICT ACCORDANCE WITH THE UNIT'S NOTICE OF ACCEPTANCE - REFER TO PRODUCT CONTROL REQUIREMENTS.
 - LOUVER BY: "GREENHECK FAN CORPORATION" NOA No. 21-0526.07 PRODUCT APPROVAL TO BE PROVIDED BY GC.

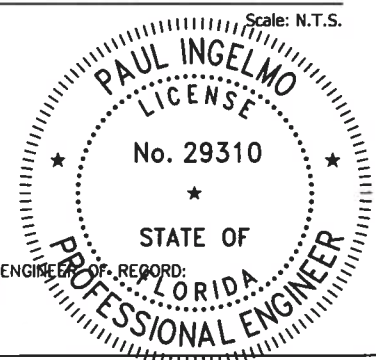


LOCATION PLAN



GENERATOR ROOM

Scale: 3/16" = 1'-0"



Paul Ingelmo

Digitally signed
by Paul Ingelmo
Date: 2023.01.30
11:58:39 -05'00'

PAUL INGELMO P.E.
LICENSE NO. P.E. 29310 - C.A 26864
INGELMO ASSOCIATES PA

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Belen 1
SW 127 Ave and SW 6 St
PUMP STATION IMPROVEMENT PROJECT

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
PI			EL		SEPT. 2022



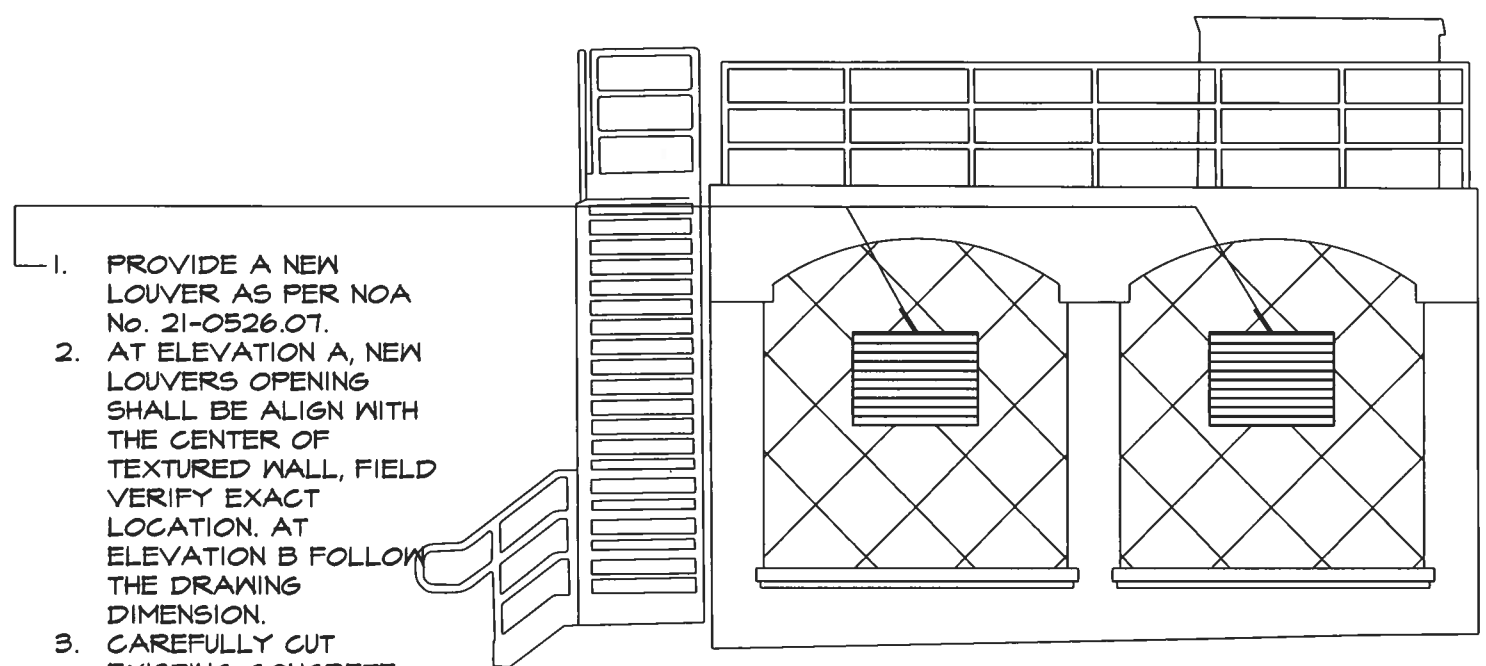
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION

GENERATOR ROOM -
STRUCTURAL PLAN
LOCATION AND NOTES

S-100

STRUCTURAL REMOVALS SPECIFICATIONS:

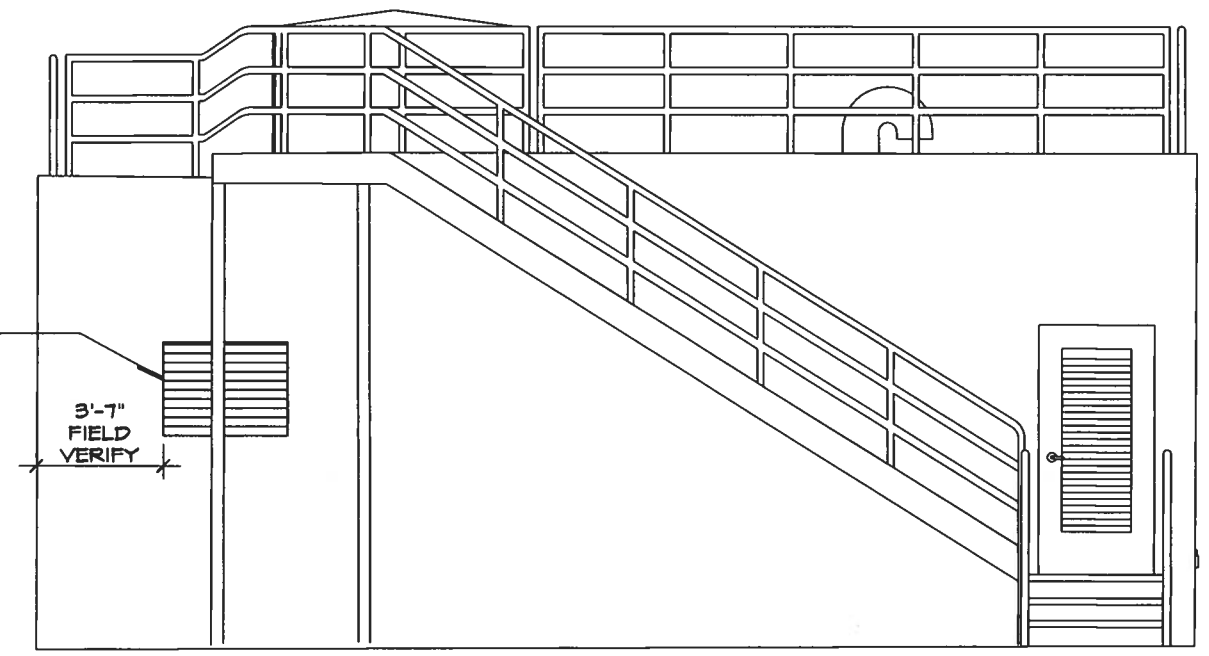
- A. ALL WORK IS TO CONFORM AND ADHERE TO THE REQUIREMENT OF THE FLORIDA BUILDING CODE 2020 EDITION AND ANY APPLICABLE LOCAL STANDARDS AND/OR ORDINANCES AS IT PERTAINS TO THE REMOVAL AND HANDLING OF DEBRIS FROM THE PROJECT SITE.
- B. ORGANIZE AND PERFORM DEMOLITION WORK TO AVOID DAMAGE TO CONSTRUCTION INTENDED TO REMAIN. THIS INCLUDES ANY EMBEDDED UTILITIES.
- C. DEMOLITION AND TRANSPORTATION OF DEBRIS SHALL COMPLY WITH APPLICABLE CODES AND REGULATIONS GOVERNING THESE OPERATIONS. ALL FEES SHALL BE PAID BY THE CONTRACTOR.
- D. AREAS NEXT TO THE REMOVAL WORK MAY BE OCCUPIED AND THEIR ACTIVITIES CANNOT BE INTERRUPTED OR DISTURBED DURING NORMAL WORKING HOURS. ALL WORKS SCHEDULE SHALL BE COORDINATED WITH THE BUILDING'S MANAGEMENT.
- E. EXISTING WORK NOT SPECIFIED FOR REMOVAL THAT IS TEMPORARILY REMOVED, DAMAGED, EXPOSED, OR IN ANY WAY DISTURBED OR ALTERED BY REMOVAL WORK SHALL BE REPAIRED, PATCHED, OR REPLACED TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST TO THE OWNER.
- F. ENVIRONMENTAL PROTECTION:
 - 1. CONTROL AMOUNT OF DUST RESULTING FROM CONSTRUCTION OR DEMOLITION TO PREVENT SPREAD OF DUST TO OTHER BUILDINGS AND TO AVOID CREATION OF A NUISANCE IN SURROUNDING AREAS. USE OF WATER TO CONTROL DUST WILL NOT BE ALLOWED WHEN IT WILL RESULT IN FLOODING OR OTHER OBJECTIONABLE OR HAZARDOUS CONDITIONS.
 - 2. DISPOSITION OF MATERIALS:
 - 2.1. TITLE AND RESPONSIBILITY TO MATERIALS AND EQUIPMENT TO BE REMOVED IS VESTED IN THE CONTRACTOR UPON RECEIPT OF NOTICE TO PROCEED.
 - 2.2. THE OWNER WILL NOT BE RESPONSIBLE FOR THE CONDITION, LOSS, OR DAMAGE TO SUCH MATERIALS AND EQUIPMENT AFTER THE NOTICE TO PROCEED.
- G. ENSURE THAT THE REMOVAL WORK PROCEEDS IN A SAFE MANNER. CONTRACTOR SHALL PROVIDE THE EQUIPMENT NECESSARY TO SAFELY HANDLE THE REMOVAL OF THE INDICATED STRUCTURAL ELEMENTS. DURING THE REMOVAL PROCESS CONTRACTOR SHALL PROTECT ALL OTHER ITEMS THAT ARE TO REMAIN, INCLUDING OTHER STRUCTURAL MEMBERS. ANY COLLATERAL DAMAGE DURING THE REMOVAL PROCESS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



A ELEVATION
S-101

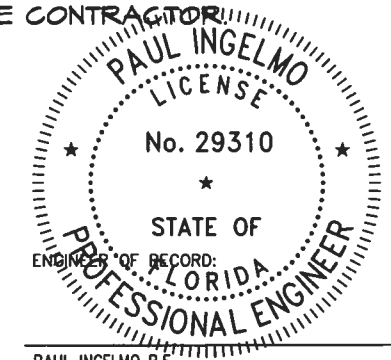
Scale: N.T.S.

- 1. PROVIDE A NEW LOUVER AS PER NOA No. 21-0526.07.
- 2. AT ELEVATION A, NEW LOUVERS OPENING SHALL BE ALIGN WITH THE CENTER OF TEXTURED WALL, FIELD VERIFY EXACT LOCATION. AT ELEVATION B FOLLOW THE DRAWING DIMENSION.
- 3. CAREFULLY CUT EXISTING CONCRETE WALL TO ACCOMMODATE THE NEW DOOR.
- 4. PROVIDE PROTECTION FOR ALL CUT REBARS BY COATING WITH EPOXY.
- 5. SEE REMOVAL NOTES THIS SHEET.
- 6. AFTER THE LOUVER INSTALLATION IS COMPLETED PATCH EXISTING STUCCO FINISH AS NEEDED.
- 7. MEET AND MATCH EXISTING FINISH AND PAINT.



B ELEVATION
S-101

Scale: N.T.S.



PAUL INGELMO P.E.
 LICENSE NO. P.E. 29310 - C.A. 26864
 INGELMO ASSOCIATES PA

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Belen 1
 SW 127 Ave and SW 6 St
 PUMP STATION IMPROVEMENT PROJECT

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
PI			IL		SEPT. 2022



DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
 ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION

ELEVATIONS AND NOTES

S-101