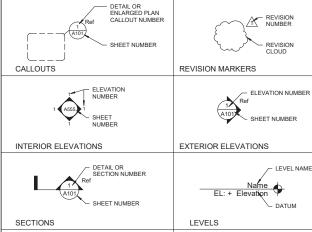
ATTACHMENT "B"

GENERAL NOTES FOR NEW CONSTRUCTION PLANS

- SEE FLOOR PLANS, ENLARGED PLANS, DEMOLITION AND INTERIOR ELEVATIONS, DETAILS, ETC. FOR DIMENSIONS AND KEYNOTES WHICH APPLY TO THE NEW CONSTRUCTION FLOOR PLANS.
- DIMENSIONS WITH +/- CAN BE LARGER OR SMALLER THAN SHOWN. CONTACT ARCHITECT IF DIMENSIONS WITH +/- VARY MORE THAN 1 INCH.
- 3. DIMENSIONS WITHOUT +/- MUST BE CONSTRUCTED AS SHOWN.
- 4. REPAIR EXISTING WALLS AS REQUIRED TO PROVIDE NEW APPEARANCE. APPLY FINISHES NOTED ON
- PATCH, REPAIR, AND LEVEL EXISTING FLOOR SLAB TO RECEIVE NEW FLOOR FINISH. REFER TO FINISH SCHEDULE. DIMENSIONS INDICATED AS "MIN (OR MAX) CLEAR" MUST BE MAINTAINED FROM FINISH SURFACE TO FINISH SURFACE.
- PATCH ALL HOLES IN EXISTING CONCRETE FLOOR SLAB AND CMU WALLS WHERE MECHANICAL, ELECTRICAL, OR OTHER PENETRATIONS HAVE BEEN REMOVED. REPARS SHALL MATCH EXISTING WALL AND THE FIRE RATING OF THE SURFOLVIDNICA SESMENT.
- 7. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN FIELD DIMENSIONS AND PLANS
- 8. EXISTING-TO-REMAIN WALLS, VENTILATION PANELS, PLUMBING FIXTURES, EQUIPMENT, ETC., ARE SOLID GRAY ON THE NEW CONSTRUCTION FLOOR PLANS. NEW CONSTRUCTION IS INDICATED BY SOLID LINES, REFER TO DEMOLITION FLOOR PLANS FOR EXTENT OF "EXISTING-TO-BE-REMOVED" COMPONENTS AND ELEMENTS.
- ACCESS PANELS A. THE CONTRACTOR SHALL VERIFY THAT ACCESS HATCH TYPE SPECIFIED IS INSTALLED ON ROOF AND IN "ACCESSIBLE TYPE" CEILING WHERE ACCESS, SERVICE OR ADJUSTMENT TO MECHANICAL PLUMBING, FIRE PROTECTION, SECURITY, ELECTRICAL AND COMMUNICATION ITEMS MAY BE REQUIRED.
- B. ACCESS HATCH SHALL BE THE "FIRE RATED TYPE" EQUAL TO THE RATING OF THE ROOF IN WHICH IT OCCURS. C. ACCESS HATCH LOCATED IN FIRE RATED ROOF SHALL BE SELF-CLOSING AND "KEY LOCKED".
- 10. THE DRAWINGS FOR THE ROOF HATCH IS A BASIS OF DESIGN ONLY TO COMPLY WITH PROJECT PROGRAMMATIC REQUIREMENTS. PRODUCT SHALL BE DESIGN BY A DELEGATED ENGINEER AND COMPLY WITH FEC FOR WIND LOADS AND IMPACT RATING .

REFERENCE SYMBOLS





LEGEND

UNIQUE DOOR NUMBER

EXISTING CONCRETE BLOCK WALL	
NEW INFILL CONCRETE WALL	
KEYNOTES	201
DOOR NUMBER DESIGNATION	(100)

PROJECT SCOPE OF WORK

- PARTIALLY REMOVE AND REPLACE COMPONENTS OF AN EXISTING WATER PUMP STATION.
 REMOVE AND REPLACE AN EXISTING ROOF FRAMING, LIGHT FIXTURES/SWITCHES,
 MECHANICAL EQUIPMENT/LOUVER GILL, EXTERIOR DOOR/HARDWARE. ADD A NEW GRATE
 FLOOR SYSTEM, DOOR/FRAME WALL, LIGHTING AND ROOF.
 GENERAL CONTRACTOR SHALL COMPLY WITH ALL CURRENT APPLICABLE CODES.
 GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS/SAMPLE SUBMITTALS FOR ALL
 MATERIALS/PRODUCTS SPECIFIED FOR APPROVAL PRIOR
 TO PROCEEDING WITH THE SCOPE WORK.

APPLICABLE CODES

FLORIDA BUILDING CODE, BUILDING 2020 FLORIDA BUILDING CODE, EXISTING BUILDING 2020 FLORIDA ACCESSIBILITY CODE 2012 BASED ON 2010 ADA STANDARDS FLORIDA BUILDING CODE, MECHANICAL 2020 FLORIDA BUILDING CODE, ELECTRICAL 2020 FLORIDA FIRE PREVENTION CODE 2020 NFPA 101- LIFE SAFETY CODE, 2018 NFPA 1-FIRE CODE, 2018 NFPA 72- FIRE ALARM AND SIGNALING CODE, 2016 NFPA 13- STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2016 NFPA 70- NATIONAL ELECTRIC CODE, 2018 NATIONAL ELECTRICAL CODE, 2017 CURRENT OSHA REGULATIONS

PROJECT GENERAL NOTES

- ALL WORK TO BE PERFORMED UNDER THIS CONTRACT SHALL COMPLY WITH, BUT IS NOT LIMITED TO, CODES LISTED WITHIN THIS PROJECT INCLUDING THE FOLLOWING; THE FLORIDA BUILDING CODE (LATEST EDITION), CITY LABOR LAWS, CITY ORDINANCES CITY/COUNTY ZONING CODES, NATIONAL ELECTRICAL CODE, N.F.P.A. 101, O.S.H.A., A.D.A. & ALL OTHER APPLICABLE CODES, RULES AND REGULATIONS
- 2. THE CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE PROJECT THROUGH INSPECTION OF THE SITE, THE DRAWINGS AND SPECIFICATIONS, SO AS TO THOROUGHLY UNDERSTAND THE NATURE AND SCOPE OF THE WORK, ANY AMBIGUITES OR CONFLICTS WITH THE CONSTRUCTION OUMENTS SHALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO PROVIDING COST OF CONSTRUCTION
- IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR NOTED AND SHALL BE INCLUDED AS PART OF COST OF CONSTRUCTION
- 4. EXISTING FACILITY ITEMS AND EQUIPMENT THAT ARE NOT PART OF SCOPE OF WORK ARE TO REMAIN INTACT. HOWEVER, CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF SOME ADJACENT ITEMS AND EQUIPMENT WHICH ARE NOT PART OF THE SCOPE OF WORK IN ORDER TO ACCOMPLISH DEMOLITION AND NEW CONSTRUCTION WORK, FURTHER MORE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMISTALLATION OF THOSE ADJACENT ITEMS AND EQUIPMENT AND THEY SHALL BE IN PROPER WORKING CONDITION.
- 5. ALL DIMENSIONS PROVIDED ARE APPROXIMATE. CONTRACTOR SHALL VERIFY DIMENSIONS WITH EXISTING FIELD CONDITIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO ARCHITECT'S ATTENTION BEFORE COMMENCEMENT AND/OR PROCEEDING WITH THE WORK.
- 6. CONTRACTOR SHALL PROTECT ALL EXISTING FLOOR & WALL SURFACES WITH A MEANS OF CONTAINMENT TO PREVENT DAMAGE.
- 7. ALL EXISTING SURFACES ARE TO BE PRIMER-COATED IN ADVANCE OF PAINT FINISH PER SPECIFICATION.
- THE CONTRACTOR SHALL MAINTAIN ALL COMPONENTS FOR MEANS OF EGRESS FREE OF OBSTRUCTIONS AND ACCESSIBLE AT ALL TIMES.
- 9. THE CONTRACTOR SHALL MAINTAIN ALL LIFE SAFETY AND FIRE PROTECTION SYSTEMS OPERATIONAL AT ALL TIMES.
- 10. CONTRACTOR SHALL MAINTAIN ALL EXISTING FIRE RATINGS AT NEW CONSTRUCTION. 11. ANY FIRE RATED COMPONENT, SYSTEM, OR MATERIAL THAT IS REMOVED IN THE COURSE OF
- CONSTRUCTION MUST BE REPLACED OR UPDATED AS PART OF THE SCOPE OF WORK FOR THIS PROJECT.
- 12. CONSTRUCTION ACTIVITY AFTER REGULAR WORKING HOURS MUST BE COORDINATED AND APPROVED BY THE OWNER. 13. CONTRACTOR AND ALL SUBCONTRACTORS SHALL FIELD CHECK AND VERIFY ALL EXISTING CONDITIONS
- AND SHALL BE RESPONSIBLE FOR THEIR PRESERVATION. ANY DAMAGE TO EXISTING SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO OWNER.
- 14. CONTRACTOR MAY NEED TO PENETRATE OR OTHERWISE MODIFY FIRE RATED WALLS. COORDINATE SCOPE OF MECHANICAL AND ELECTRICAL TO DETERMINE LOCATIONS. WALL RATINGS SHOULD BE PRESERVED AT ALL TIMES. PENETRATIONS SHALL BE PROPERLY SEALED.
- CONTRACTOR TO PROVIDE LIFE SAFETY MEASURES FOR THE CONSTRUCTION AREA ITSELF; INCLUDING UNOBSTRUCTED MEANS OF EGRESS, FIRE EXTINGUISHERS, AND MINIMUM LIGHTING LEVELS. A DDITIONAL MEASURES MAY DE REQUIRED BY THE OWNERS.

GENERAL NOTES FOR DEMOLITION PLANS

1. NO WORK IN SHADED AREAS (TYPICAL UNLESS OTHERWISE NOTED)

- . REMOVE ALL DASHED WALLS, DOORS, FRAMES, COMPONENTS, BUILDING EQUIPMENT AND FIXTURES IN THE WORK AREA PRIOR TO START OF NEW CONSTRUCTION.
- REMOVE DESIGNATED EXISTING BUILDING COMPONENTS AS INDICATED. PATCH AND REPAIR ALL DAMAGED AREAS AND PREPARE BASE BUILDING SURFACES FOR INSTALLATION OF NEW MATERIALS.
- 4. EXISTING CMU WALLS AND VENTILATION PANELS TO BE PROTECTED PROPERLY FROM DAMAGE.
- 5. DEMOLITION OF EXISTING MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION SYSTEM, EXISTING ROOF/WOOD FRAME SYSTEM TO BE COORDINATED WITH M.E.P. DEMOLITION DRAWINGS.
- FIELD VERIFY WITH ENGINEER EXTENT OF DEMOLITION SCOPE FOR EXISTING MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION SYSTEM ELEMENTS.
- CONTRACTOR TO ENSURE CLEAN UNINTERRUPTED ACCESS TO FIRE EXIT GATES DURING CONSTRUCTION.

SHEET NUMBER	SHEET DESCRIPTION	DATE ISSUED: 10/11/23	DATE ISSUED:	DATE ISSUED:	DATE ISSUED:
COVER	COVER SHEET				
JOVER G001	SITE PLAN, GENERAL NOTES & INDEX OF DRAWINGS	•			
3001 CIVIL / STRUC		•			
2-1	SITE & REVETMENT PLAN				
2-1	DRAINAGE DETAILS	•			
		•			
201	FLOOR PLANS, RCP'S, ELEVATIONS & SECTIONS	•			-
DETAILS	FLOOR PLANS, RCP 3, ELEVATIONS & SECTIONS	•			
A800	DOOR, WALL, ROOF DETAILS AND SCHEDULES				
A000 STRUCTURAL	DOOR, WALL, ROOF DETAILS AND SCHEDOLES	•			
STRUCTURAL	STRUCTURAL & MECHANICAL DEMOLITION				
5-2	DEMOLITION PHOTOS	•			
		•			
3-3	ROOF DETAILS	•			
8-4	FRAMING DETAILS	•			
MECHANICAL					
И-1	PUMP INSATALLATION DETAILS	•			
Л-2	HOOD AND EXHAUST FAN DETAILS	•			
ELECTRICAL					
E-1	ELECTRICAL GENERAL NOTES AND LEGEND	•			
-2	ELECTRICAL FLOOR PLAN	•			

DRAWING INDEX

PERMIT SET REV 01 REV 02 REV 03





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WATER PUMP STATION

EXISTING ROOF

MIAMI SPRINGS HOOK SQUARE PUMP STATION 25 S. HOOK SQUARE MIAMI SPRINGS, FL 33166

PERMIT SET

OCTOBER 11, 2023 Project Number: 02296.000

CITY OF MIAMI SPRINGS



ARCHITECT



ARCHITECT'S SEAL



CIVIL ENGINEER







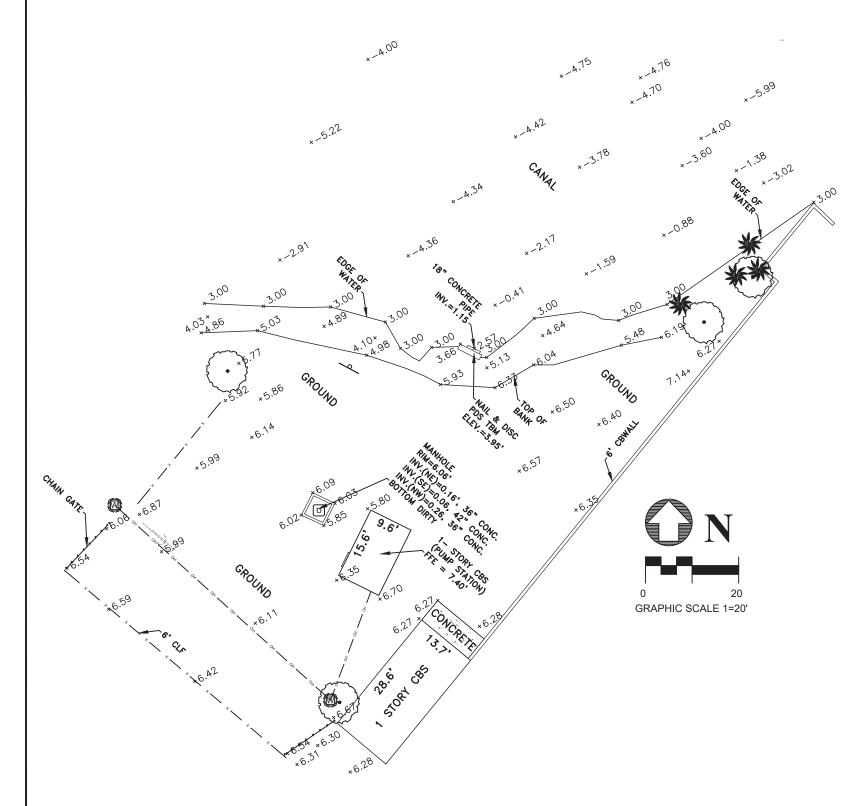


STRUCTURAL / MEP ENGINEER

R.J.Behar & Company, Inc. Engineers · Planners

6861 SW 196th Ave suite 302, Fort Lauderdale, FL 33332 (954) 680-7771

SPECIFIC PURPOSE SURVEY





LOCATION SKETCH NOT TO SCALE PROPERTY ADDRESS 25 S HOOK SQ, CITY OF MIAMI SPRINGS, FLORIDA 33166

PREPARED FOR: CITY OF MIAMI SPRINGS, FLORIDA

SURVEYOR'S NOTES:

1. NO UNDERGROUND PORTIONS OF FOOTINGS, FOUNDATIONS. CONTACT APPROPRIATE AUTHORITY PRIOR TO ANY DESIGN WORK OR CONSTRUCTION. 2. THIS IS NOT A BOUNDARY SURVEY. EXAMINATION OF ABSTRACT OF TITLE MUST BE MADE TO DETERMINE RECORDED INSTRUMENTS, IF ANY, AFFECTING PROPERTY BESIDES THOSE NOTED. 3. NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. 4. TYPE OF SURVEY: SPECIFIC PURPOSE. 7. ELEVATIONS ARE REFERRED TO THE NATIONAL GEODETIC VERTICAL DATUM 1929. USED BENCHMARK: M-75-1. ELEVATION: 7.61 (NORTH GEODETIC VERTICAL DATUM 1929) 8. FIELD WORK DATE: 01.20.2023

SYMBOLS & ABBREVIATIONS

CBS = CONCRETE BLOCK STRUCTURE; CBWALL= CONCRETE BLOCK WALL; CL = CENTER LINE; CLF = CHAIN LINK FENCE; EOP = EDGE OF PAVEMENT; FND= FOUND; FFE = FINISH FLOOR ELEVATION; I.D.= IDENTIFICATION; INV.= INVERT ELEVATION; IP = IRON PIPE; MDCR = MIAMI DADE COUNTY RECORDS; NAC = NON ACCESSIBLE CORNER; PB = PLAT BOOK; PG = PAGE; RB = REBAR; RDS = PREMIER DESIGN SOLUTIONS; UE = UTILITY EASEMENT;

NOTE: SYMBOLS SHOWN ARE NOT TO SCALE AND SHALL NOT BE USED TO SIZE SUCH ELEMENTS.

OF MIAMI SPRINGS		SPECIFIC PURPOSE SURVEY
WESTWARD DR		
SPRINGS, FL 33166	MIAMI	25 S HOOK SQ
	N D D I MI N	

SPRINGS

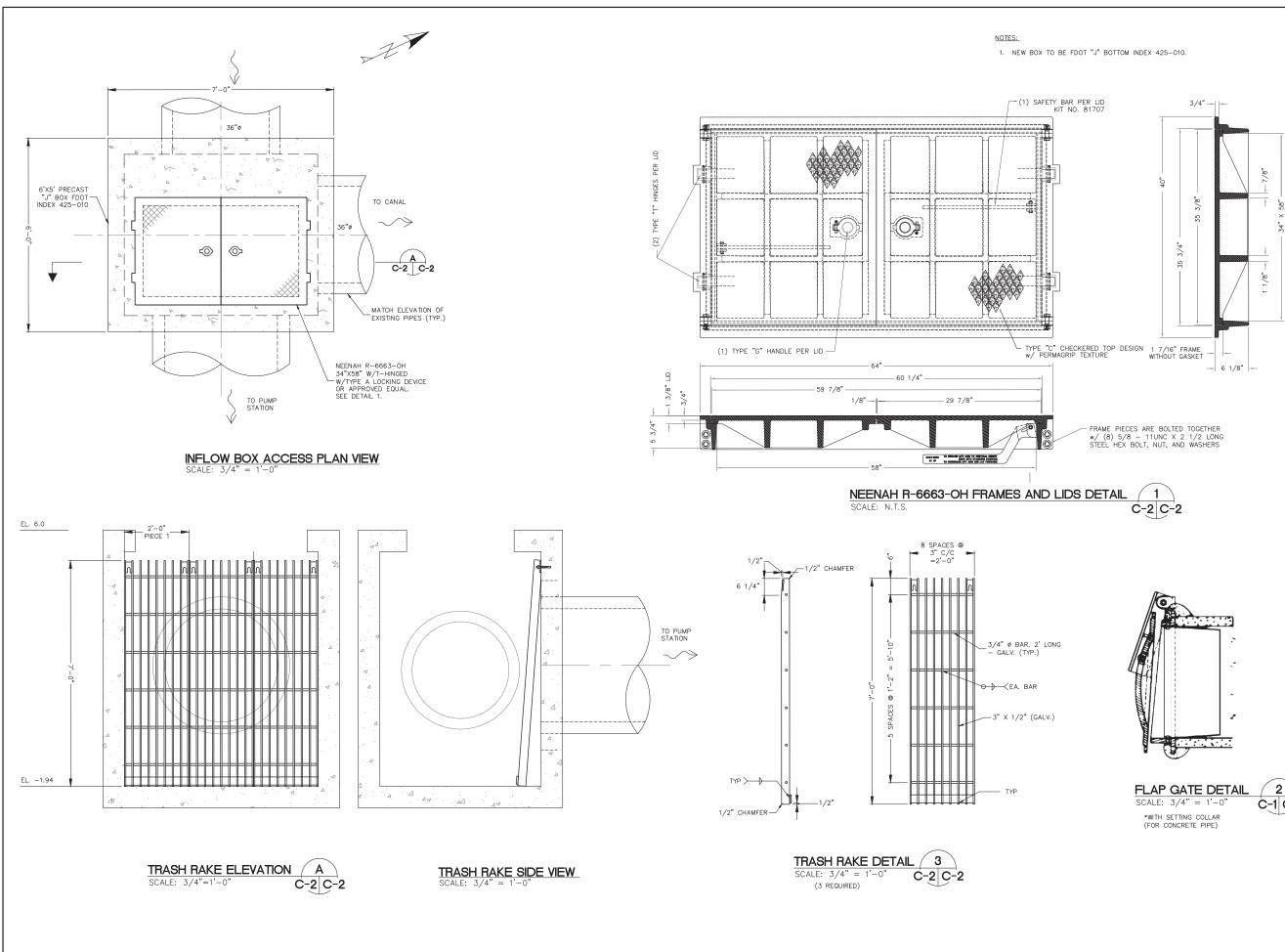
25 S HOOK SQ MIAMI SPRINGS, FL 33166



		REVISIONS		
REMIERE DESIGN SOLUTIONS INC. 606 CITY HALL PROMENADE • STE 200	DATE	REMARKS	BY	CITY OF MI
• MIRAMAR FL, 33025				201 WES
954.237.7850 PDS@PDS-ENG.COM				-
FLORIDA COA No. 27940				MIAMI SPRI
LD 0017				

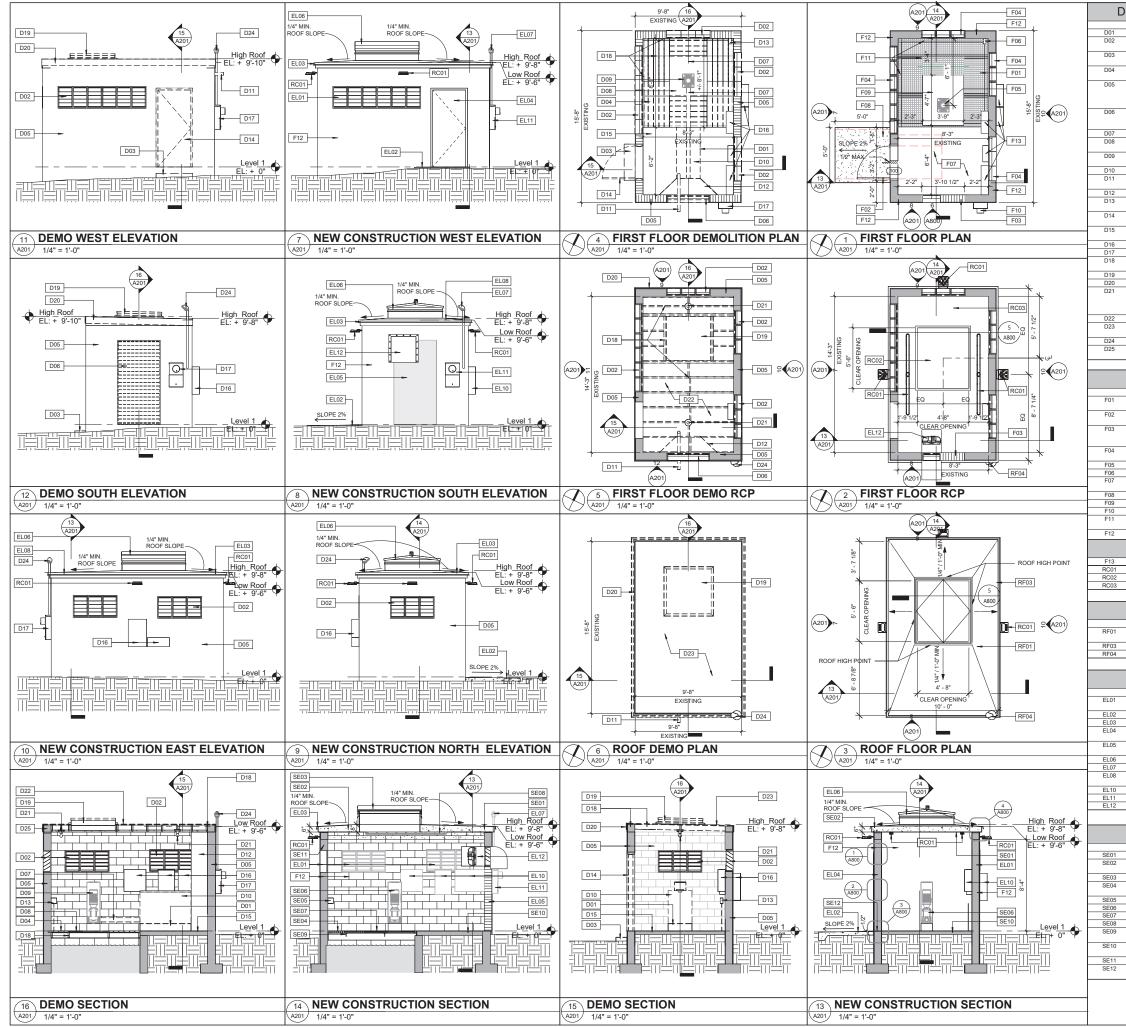


 FERNANDO FERNANDEZ PROFESSIONAL SURVEYOR AND MAPPER LICENSE LS-6765 STATE OF FLORIDA ffernandez@pds-eng.com
DATE: 02.14.2023



2 ` C-1 C-2

CIVIL ENGINEER / ARCHITECT:
Bermello Ajamil & Partners
4711 South LeJeune Road Coral Gables, FL 33146
P: 305.859.2050
CIVIL / STRUCTURAL / MEP ENGINEER: R.J.Behar & Company, Inc. Engineers • Planners
Engineers · Planners 6861 SW 196th Ave suite 302,
Fort Lauderdale, FL 33332
(954) 680-7771 OWNER:
CITY OF MIAMI SPRINGS
201 WESTWARD DR MIAMI SPRINGS, FL 33166
MIAMI
DIKINO
SPRI SQU STA' STA'
ZIG
PHASE:
PERMIT SET
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DEMOLITION PLAN/ELEVATION KEYNOTES

REMOVE CONCRETE CURB TO FLOOR HEIGHT. PATCH AND REPAIR EXISTING FLOOR. EXISTING PRE-CAST VENTILATION PANELS TO REMAIN. REMOVE PAINT, CLEAN AND REPARE TO RECEIVE NEW PAINT FINISH EXISTING CONCRETE STEP TO BE DEMOLISHED. PREPARE AREA TO RECEIVE NEW

CONCRETE PAD. REFER TO STRUCTURAL DRAWINGS EXISTING WOOD PLANKS TO BE REMOVED. PREPARE SURFACE TO RECEIVE NEW FLOORING SYSTEM.

ELISTING CHU WALL W/ STUCCO FINISH TO REMAIN. CLEAN WALL AND PREPARE FOR NEW PAINT FINISH. REMOVE ANY PEELING PAINT OR DEBRIS ON WALL PAICH ALL HOLES, CRACKS, DAMAGED PORTIONS, ETC. AS REQUIRED TO MATCH SURROUNDING DITIONS

EXISTING MECHANICAL LOUVER TO BE REMOVED. PREPARE SURFACE TO RECEIVE NEW CMU WALL WITH 5/8" STUCCO AND PAINT FINISH.PATCH AND PAINT SURROUNDIN WALL (INSIDE AND OUTSIDE) AS REQUIRED. REFER TO STRUCTURAL DRAWINGS.

WAL (INSIDE AND OUTSIDE) AS REQUIRED. REFER TO STRUCTURAL DRAWINGS. EXISTING PIPE TO BE REMOVED. REFER TO E ORIGINEENING DRAWINGS. EXISTING STEEL BASE PLATE TO BE REMOVED. PREPARE SURFACE TO RECEIVE NEW STEEL PLATE. REFER TO ENGINEERING DRAWINGS. EXISTING WATER PUMP STATION TO BE REMOVED. PREPARE AREA TO RECEIVE NEW WATER PUMP. REFER TO ENGINEERING DRAWINGS. EXISTING GENERATOR TO BE REMOVED. REFER TO ENGINEERING DRAWINGS. EXISTING GENERATOR TO BE REMOVED. REFER TO ENGINEERING DRAWINGS.

RAWINGS EXISTING MECHANICAL PLENUM TO BE REMOVED. REFER TO ENGINEERING DRAWINGS

EXISTING WATER LEVEL FLOAT SWITCH TO BE REMOVED. REFER TO ENGINEERING

URAWINGS. EXISTING DOOR, FRAME AND HARDWARE TO BE REMOVED. PREPARE EXISTING WALL TO RECEIVE NEW DOOR, FRAME AND HARDWARE. PATCH AND PAINT AS REQUIRED. EXISTING CONCRETE FLOOR TO REMAIN. PATCH AND REPAIR AS REQUIRED. REFER TO CREMENTIAN DAMINGS

EXISTING ELECTRICAL EQUIPMENT TO REMAIN. REFER TO ENGINEERING DRAWINGS. EXISTING ELECTRICAL EQUIPMENT TO REMAIN. REFER TO ENGINEERING DRAWINGS. EXISTING ELECTRICAL METER TO REMAIN. REFER TO ENGINEERING DRAWINGS. EXISTING STRUCTURAL FRAMING TO BE DEMOLISHED. REFER TO STRUCTURAL DRAWINGS.

DRAWINGS. EXISTING ROOF HATCH TO BE REMOVED. EXISTING ROOF FASCIA TO BE DEMOLISHED. EXISTING COF FASCIA TO BE DEMOLISHED. EXISTING LIGHTING TO BE REMOVED. TURN OFF ALL ELECTRICAL CIRCUITS PRIOR TO DEMOLITION. PREPARE WINGS TO RECEIVE NEW LIGHT FIXTURE. CLEAN AND PREPARE SURFACE TO RECEIVE NEW SURFACE MOUNTED LIGHT FIXTURES. PATCH ALL HOLES AS REQUIRED TO MATCH SURROUNDING CONDITIONS. REFER TO ENGINEERING DWGS. EXISTING ROOF/STRUCTURE TO BE REMOVED. REFER TO STRUCTURAL DRAWINGS. EXISTING ASPHALT SHINGLE ROOF AND ROOF STRUCTURE TO BE DEMOLISHED. REFER TO STRUCTURAL DRAWINGS. PREPARE AREA TO RECIVE NEW ROOF SYSTEM. EXISTING ELECTRICAL WEATHERHEAD. REFER TO ENGINEERING DRAWINGS. EXISTING ELECTING SECONDARY GROUT INFILL BETWEEN WOOD JOIST FRAMING AND CONCRETE TIE BEAM.

NEW FLOOR PLAN KEYNOTES

NEW 2"X2" MOLDED FIBERGLASS GRATING FLOORING SYSTEM BY DIRECT METALS OR EQUAL REFER TO MANUFACTURER SPECIFICATIONS FOR DETAILS. REVIEW DEVELOPMENT OF ANNUFACTURER SPECIFICATIONS FOR DETAILS. NEW INEXT DOOR SERIES 'S-6070F' FLUSH OUTSWING STEEL DOOR-IMPACT (NONS FOR DETAILS. NEW INFLIC CMU WALL WITH 5/8" STUCCO AND PAINT FINISH. PATCH AND PAINT SURROUNDING WALL (INSIDE AND OUTSIDE) AS REQUIRED. REFER TO STRUCTURAL WINGS

DRAWINGS. DRAWINGS. EXISTING PRE-CAST VENTILATION PANELS TO REMAIN. REMOVE PAINT, CLEAN AND PREPARE TO RECEIVE NEW PAINT FINISH. NEW WATER PUMP. REFER TO ENGINEERING DRAWINGS. NEW WATER LEVEL FLOAT SWITCH. REFER TO ENGINEERING DRAWINGS. EXISTING CONCRETE FLOOR TO REMAIN. PATCH AS REQUIRED. PREPARE TO RECEIVE NEW CONCRETE FLOR TO REMAIN. PATCH AS REQUIRED. PREPARE TO RECEIVE NEW CONCRETE FAD. REFER TO ENGINEERING DRAWINGS. NEW STEEL BASE PLATE. REFER TO ENGINEERING DRAWINGS. NEW STEEL ECTRICAL METER TO REMAIN. REFER TO ENGINEERING DRAWINGS. NEW STRUCTURAL FRAMING TO SUPPORT NEW FLOOR GRATING. REFER TO STRUCTURAL FRAMING S. STRUCTURAL DRAWINGS. EXISTING CMU WALL W/ STUCCO FINISH TO REMAIN. CLEAN WALL AND PREPARE FOR

RCP KEYNOTES

F13 EXISTING ELECTRICAL EQUIPMENT TO REMAIN. REFER TO ENGINEERING DRAWING RC01 NEW SURFACE MOUNTED LIGHTING FIXTURES. REFER TO ELECTRICAL DRAWINGS RC02 NEW ROOF HATCH. REFER TO DETAIL 5/A-800. NEW CONCRETE ROOF SLAB TO BE PAINTED. REFER TO STRUCTURAL DRAWINGS

ROOF PLAN KEYNOTES

NEW CONCRETE ROOF SLAB. PREPARE TO RECEIVE SYKALASTIC ROOFPRO FLUID APPLIED WATER PROOF MEMBRANE. REFER TO STRUCTURAL DRAWINGS. NEW ROOF FASCIA AND METAL FLASHING. REFER TO DETAIL 4/A800 EXISTING ELECTRICAL WEATHERHEAD, REFER TO ENGINEERING DRAWING

ELEVATION KEYNOTES

EXISTING PRE-CAST VENTILATION PANELS TO REMAIN CLEAN AND PREPARE TO

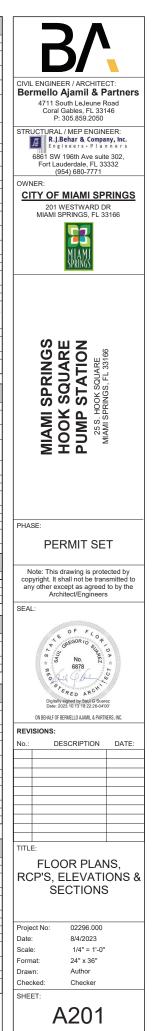
EXISTING PRE-CAST VENTILATION PANELS TO REMAIN. CLEAN AND PREPARE TO RECEIVE NEW PAINT FINISH. NEW CONCRETE SLAB. REFER TO STRUCTURAL DRAWINGS.. NEW ROOF FASCIA AND METAL FLASHING. REFER TO DETAIL 4/4800 NEW NEXT DOOR SERIES: 54670F "FLUSH OUTSWING STEEL DOOR-IMPACT (NOA 21-0504.07) OR EQUAL. REFER TO MANUFACTURER SPECIFICATIONS FOR DETAILS. NEW INFILL CMU WALL WITH 5/8" STUCCO AND PAINT FINISH. PATCH AND PAINT

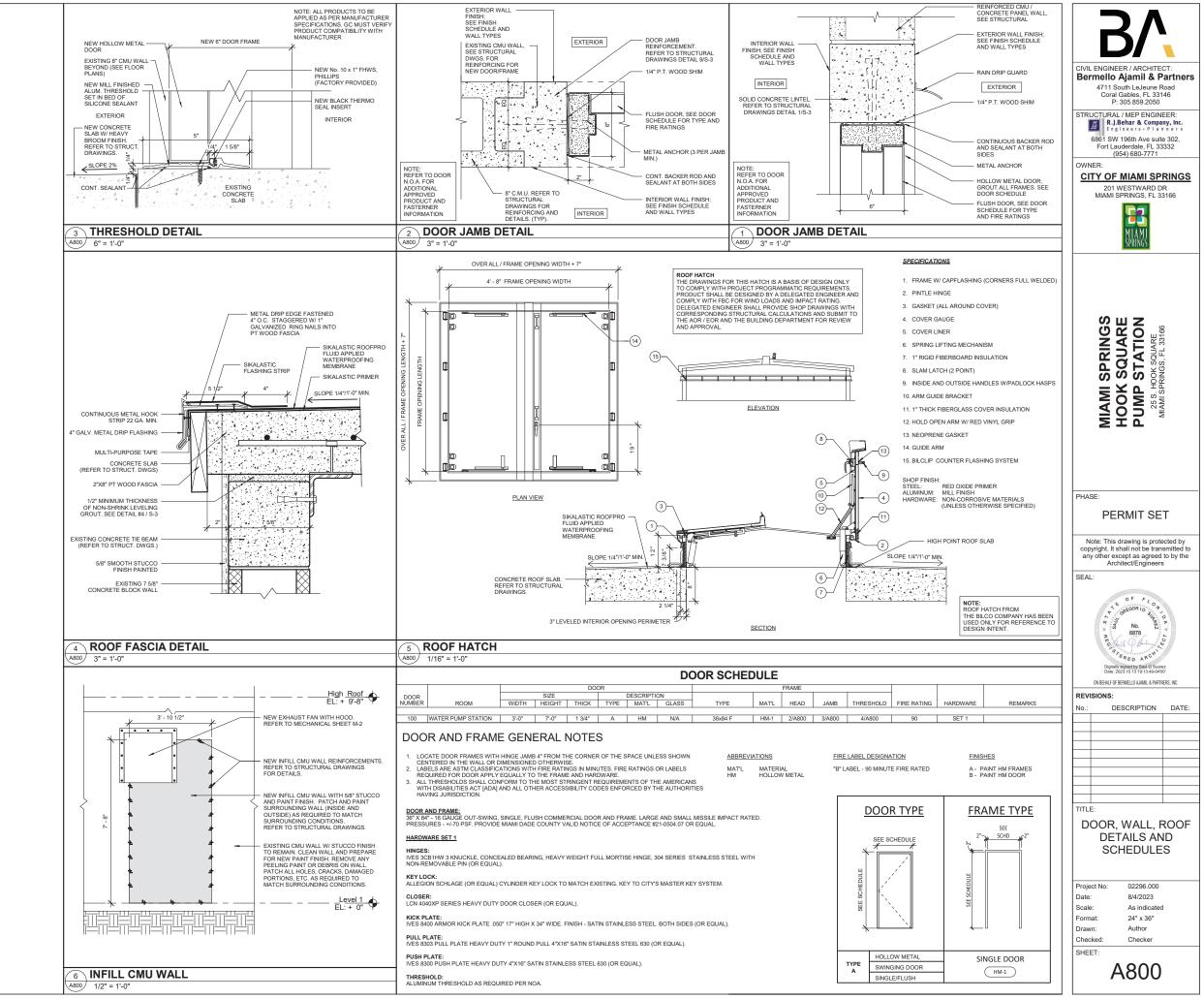
NEW INFILL CMU WALL WITH 58' STUCCO AND PAINT FINISH. PATCH AND PAINT SURROUNDING WALL (INSIDE AND OUTSIDE) AS REQUIRED. NEW ROOF HATCH. REFER TO DETAIL 5/A-800. EXISTING ELECTRICAL WEATHERHEAD. REFER TO ENGINEERING DRAWINGS. NEW CONCRETE ROOS EALB. PREPARE TO RECEIVE SYKALASTIC ROOFPRO FLUID APPLIED WATER PROOF MEMBRANE. REFER TO STRUCTURAL DRAWINGS. EXISTING ELECTRICAL EQUIPMENT TO REMAIN. REFER TO ENGINEERING DRAWINGS. EXISTING ELECTRICAL METER TO REMAIN. REFER TO ENGINEERING DRAWINGS. NEW EXHAUST FAN. REFER TO MECH. DRAWING FOR DETAILS.

SECTION KEYNOTES

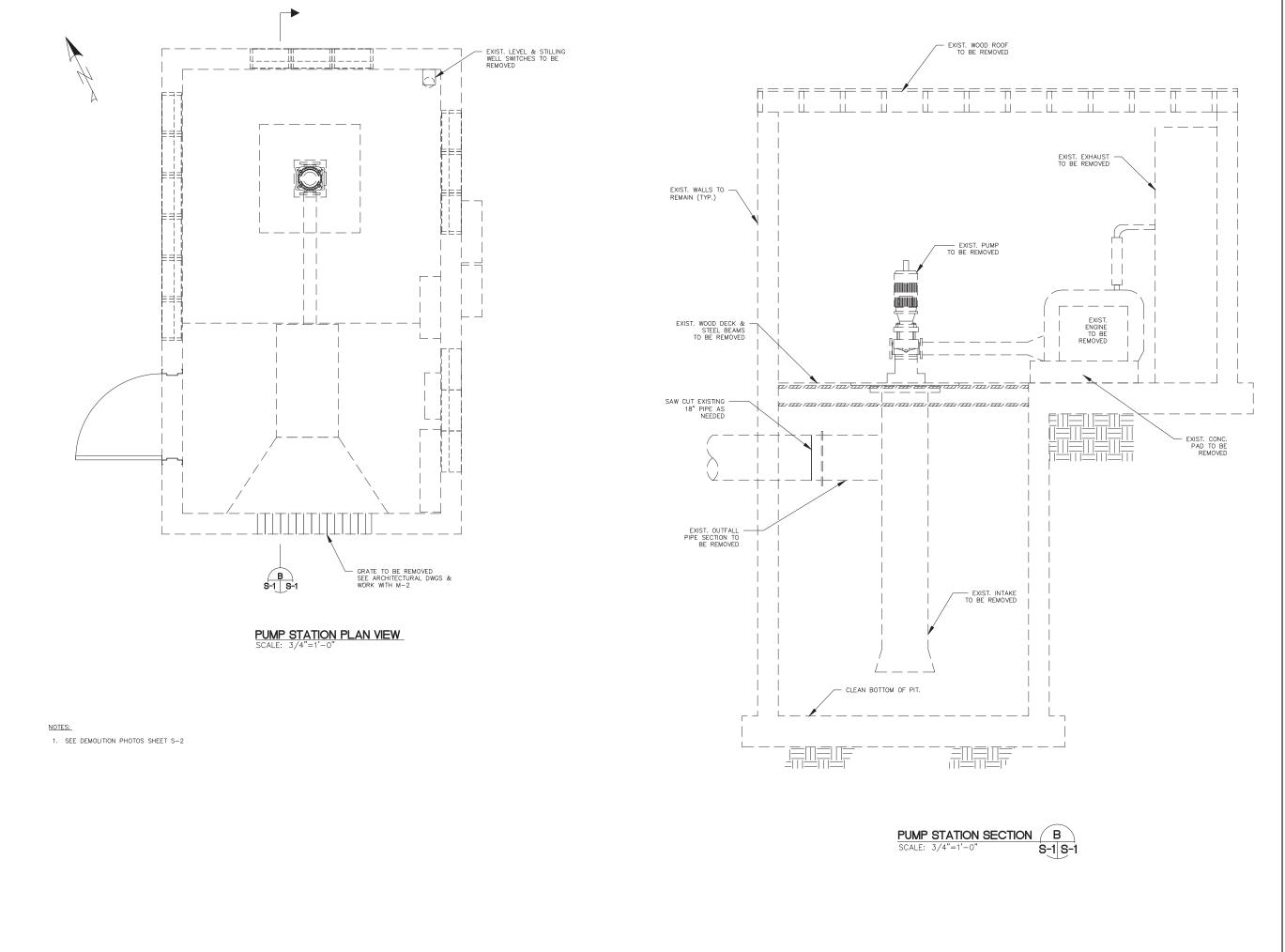
NEW CONCRETE ROOF SLAB TO BE PAINTED. REFER TO STRUCTURAL DRAWINGS. NEW CONCRETE ROOF SLAB TO BE PAINTED. REFER TO STRUCTURAL DRAWINGS.
 NEW CONCRETE ROOF TO RECEIVE SVALASTIC ROOFPRO FLUID APPLIED WATER
 PROOF NEMBRANE, REFER TO STRUCTURAL DRAWINGS.
 NEW WOLDED FIBERGLASS GRATING FLOORING SYSTEM BY DIRECT METALS OR
 EQUAL. REFER TO MANUFACTURER SPECIFICATIONS FOR DETAILS.
 NEW WATER PLWER TO STRUCTURAL DRAWINGS.
 NEW WATER FUND. TO MANUFACTURER SPECIFICATIONS FOR DETAILS.
 NEW WATER EVEL FLOAT SWITCH. REFER TO ENGINEERING DRAWINGS.
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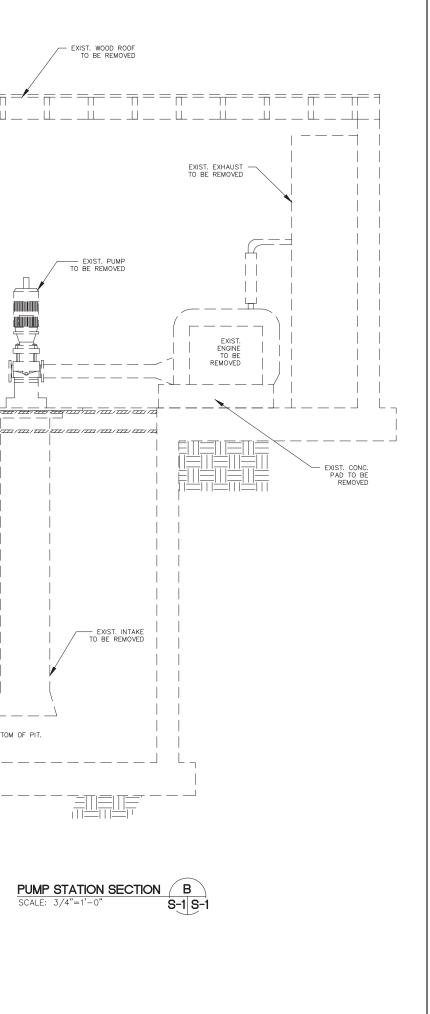
EXISTING CONCRETE FLOOR TO REMAIN. PATCH AS REQUIRED. PREPARE TO RECEIVE EXISTING CONCECT F LOOR TO REMAIN. PATCH AS REQUIRED, PREPARE NEW EPOXY PAINT FINISH. EXISTING CONCRETE BEAM. REFER TO STRUCTURAL DRAWINGS. NEW ALUMINUM THRESHOLD (PEMKO 2005AT). REFER TO MANUFACTURER SPECIFICATIONS FOR DETAILS.





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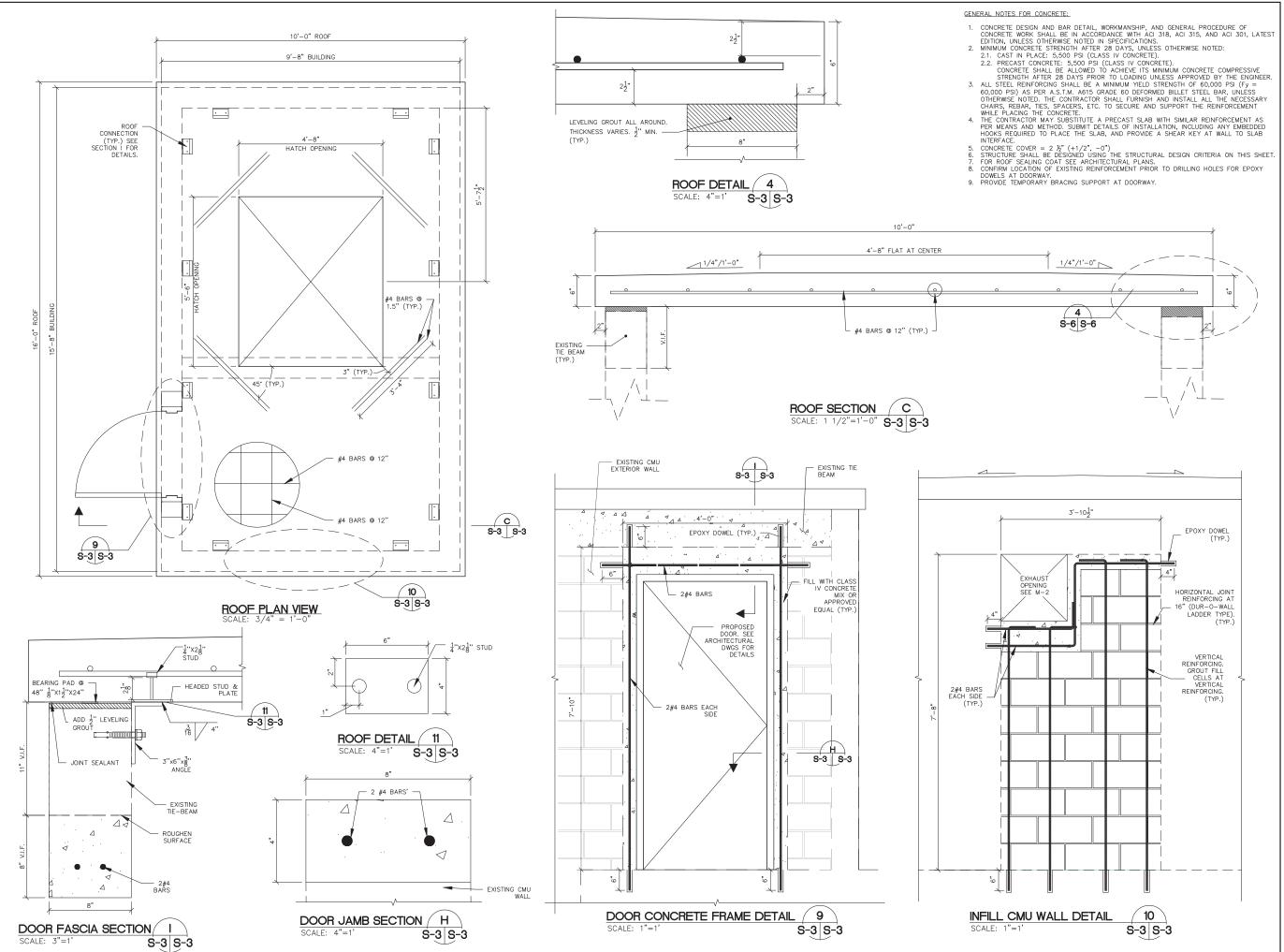


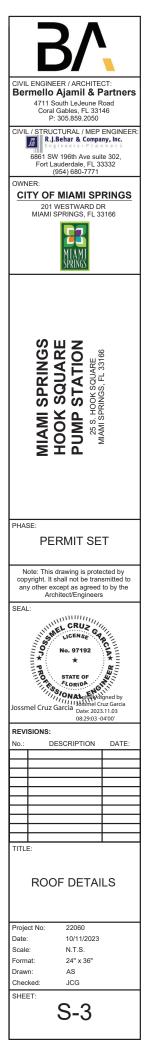
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CIVIL ENGINEER / ARCHITECT: Bermello Ajamil & Partners 4711 South LeJeune Road Coral Gables, FL 33146 P: 305.859.2050
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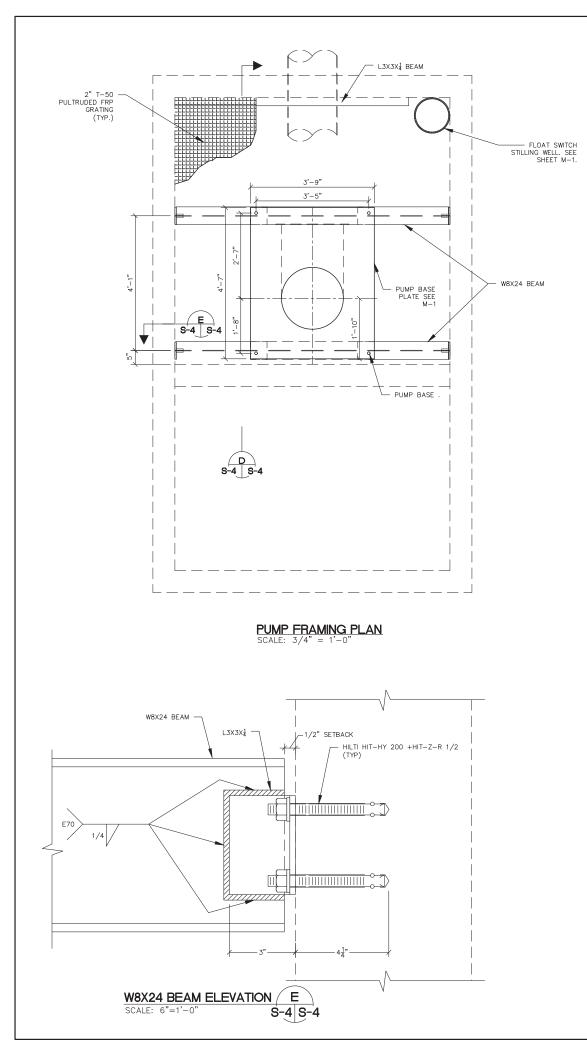


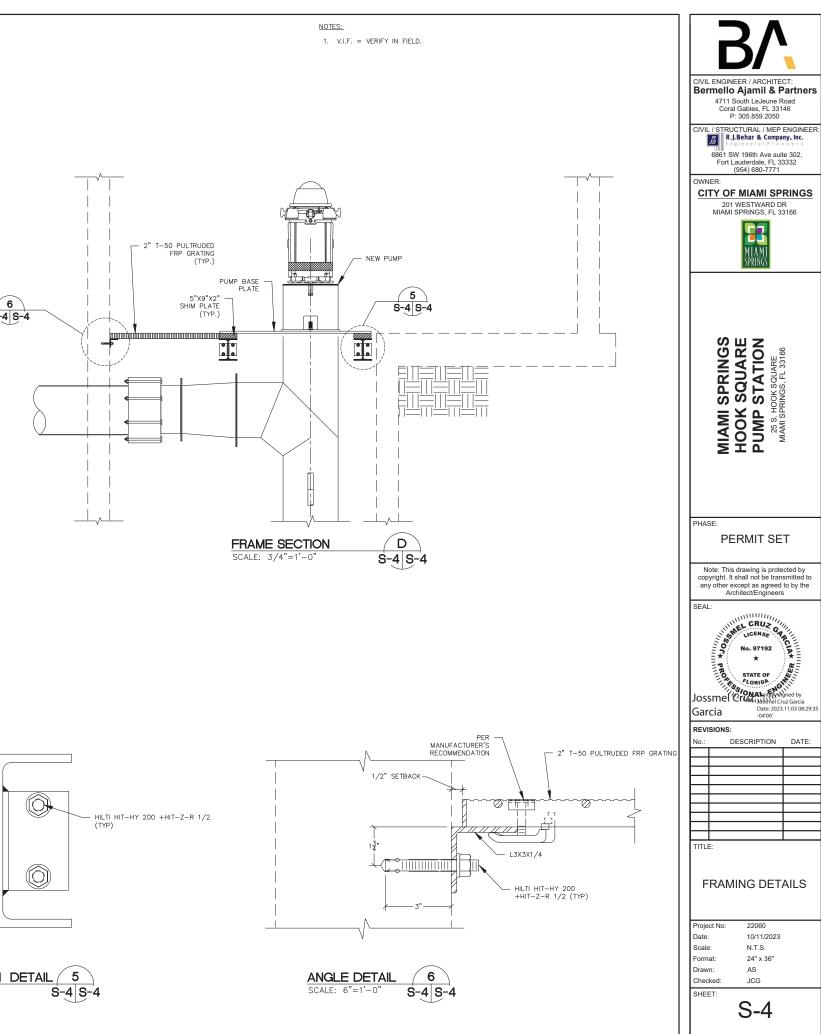
ELECTRICAL SYSTEM
 TO BE MODIFIED.
 SEE ELECTRICAL DRAWINGS.

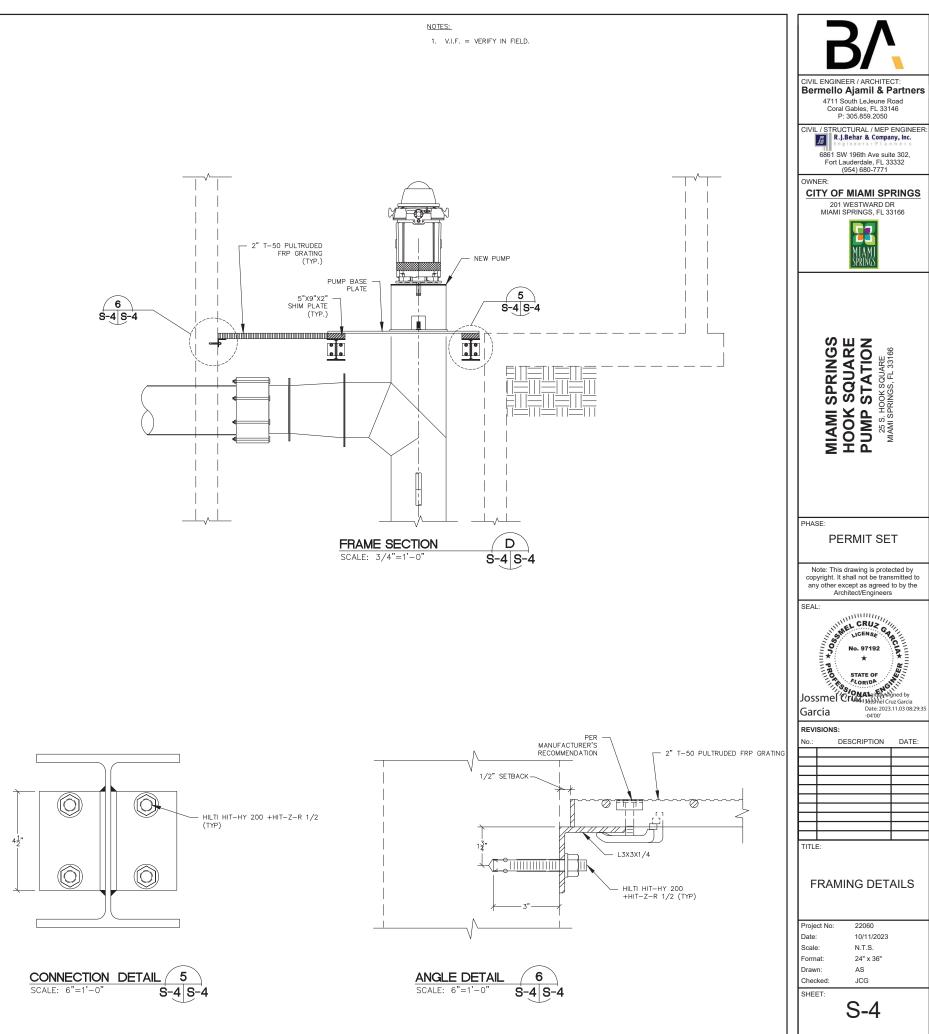


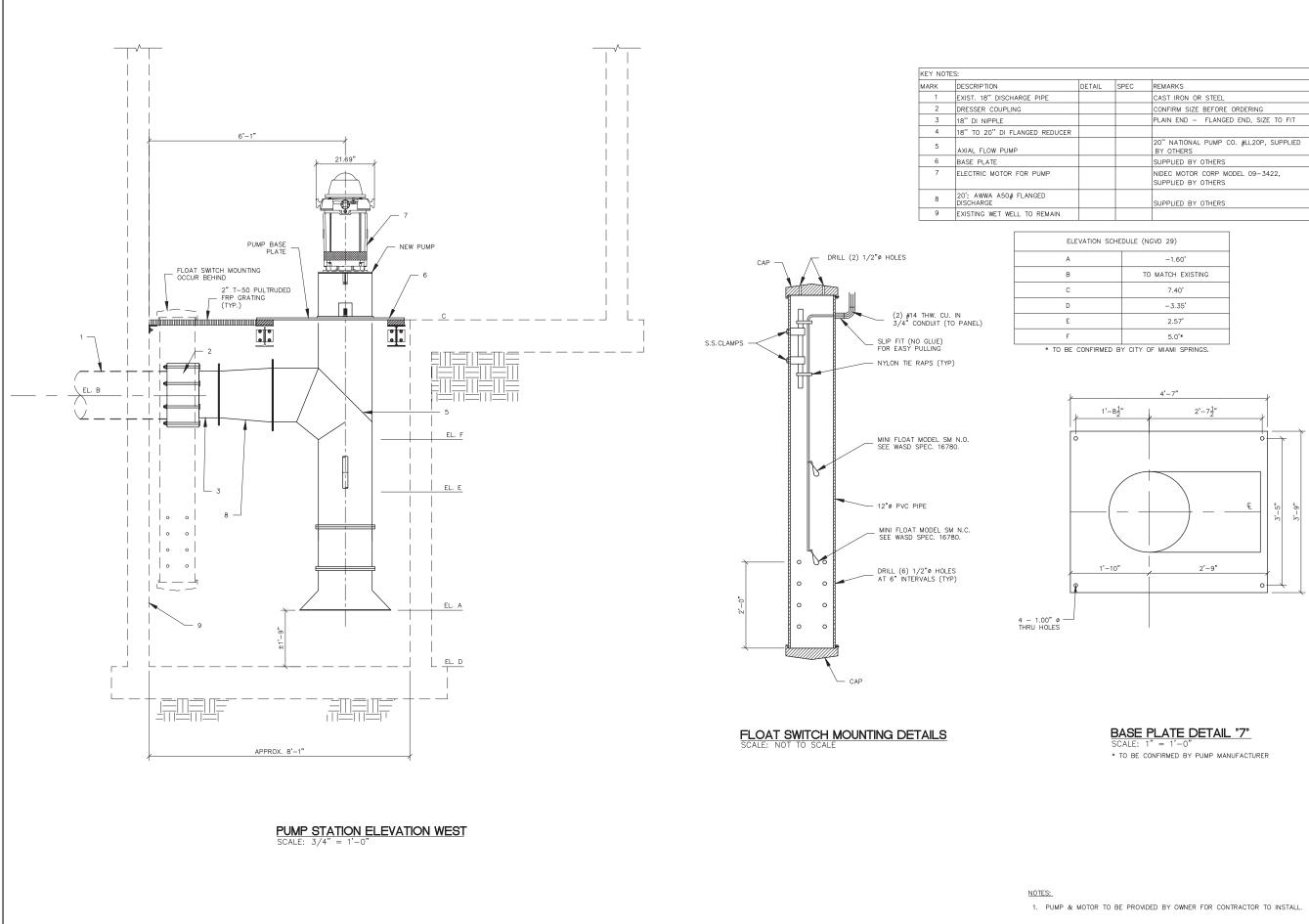










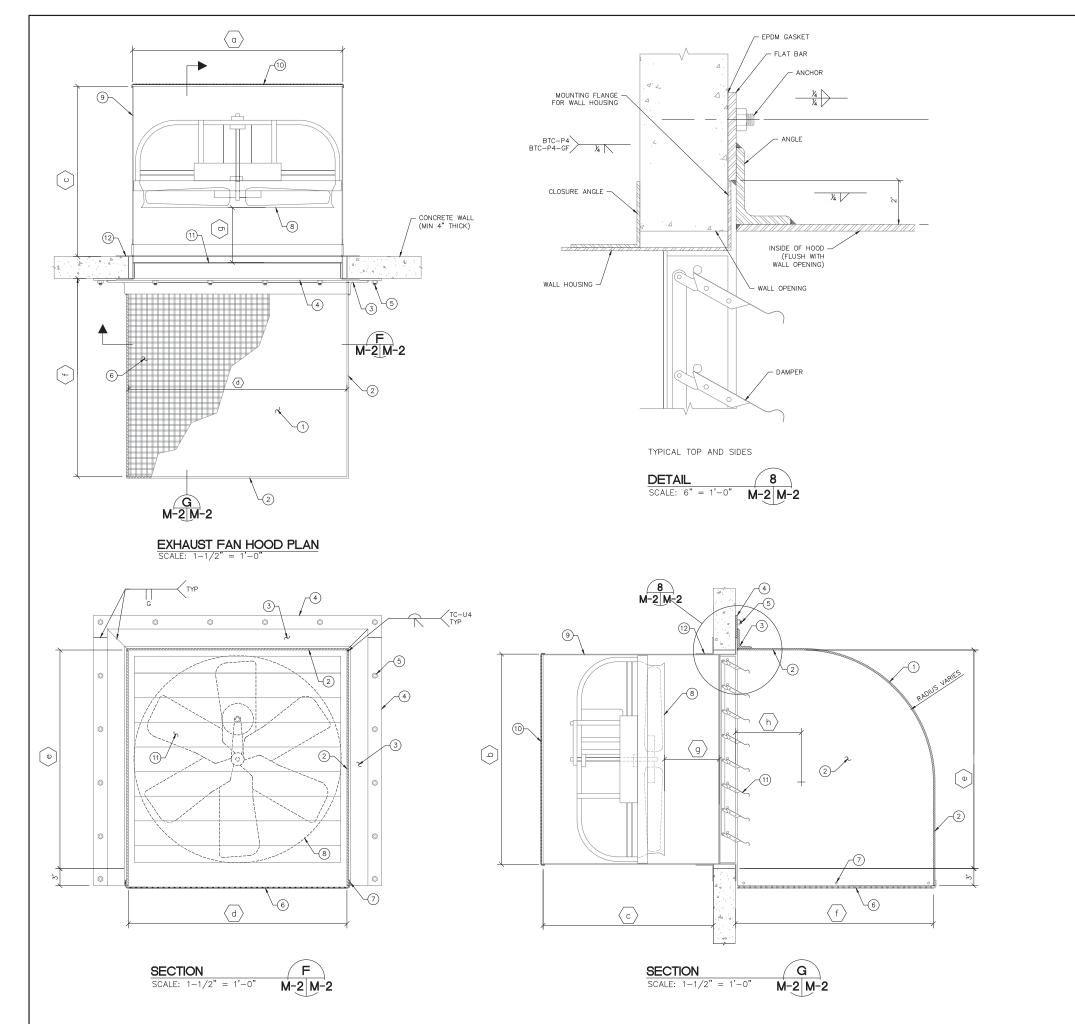


SPEC	REMARKS
	CAST IRON OR STEEL
	CONFIRM SIZE BEFORE ORDERING
	PLAIN END – FLANGED END, SIZE TO FIT
	20" NATIONAL PUMP CO. #LL20P, SUPPLIED BY OTHERS
	SUPPLIED BY OTHERS
	NIDEC MOTOR CORP MODEL 09-3422, SUPPLIED BY OTHERS
	SUPPLIED BY OTHERS

-1.60'	
TO MATCH EXISTING	
7.40'	
-3.35'	
2.57'	
5.0'*	

PROVIDED	ΒY	OWNER	FOR	CONTRACTOR	то	INSTALL.	

RV
CIVIL ENGINEER / ARCHITECT:
Bermello Ajamil & Partners
4711 South LeJeune Road Coral Gables, FL 33146
P: 305.859.2050 CIVIL / STRUCTURAL / MEP ENGINEER:
R.J.Behar & Company, Inc. Engineers • Planners
6861 SW 196th Ave suite 302
Fort Lauderdale, FL 33332 (954) 680-7771
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(1) HOOD: 5/16" 2 HOOD: 5/16" 3 FRAME: L 3 (4) ³/₈"x4" SQUA 5 ANCHOR: 1/2 SPACED 9" 6 BIRD SCREEN 7 ¼" DIAMETE MACHINE SC 8 EXHAUST FAI 9 WALL HOUSIN 10 WELDED STE COMPLIANT 11 EXHAUST DA 12 CLOSURE AND

MARK DESCRIPTION

MARK DESCR $\langle a \rangle$ WALL H $\langle b \rangle$ WALL H WALL H $\langle c \rangle$ $\langle d \rangle$ WALL ($\langle e \rangle$ WALL (HOOD $\langle f \rangle$ (INSIDE MINIMU PROPE g DISTAN $\langle h \rangle$

FAN SIZE 12

GENERAL NOTES:

- 3. MINIMUM CONNECTION OF ADJACENT STEEL PARTS SHALL BE MADE WITH FILLET OR FLARE BEVEL WELD ALL AROUND, UNLESS OTHERWISE NOTED. 4. ALL EXPOSED EDGES OF WELDS AND ALL SHARP EDGES SHALL BE GROUND SMOOTH, WITH A $1/8-\mbox{INCH}$ MINIMUM RADIUS.

- 8. CONTRACTOR MAY PROPOSE A NON-CURVED HOOD, SUBJECT TO DISTRICT REVIEW AND APPROVAL.
- 9. SUBMIT SHOP DRAWINGS FOR FAN, FAN ACCESSORIES AND HOOD, IN ACCORDANCE WITH SECTION 01300.
- 10. THERE SHALL BE ADEQUATE SPACE AROUND THE FAN HOUSING TO PERMIT MAINTENANCE AND REPLACEMENT OF THE FAN.
- 12. 12. PROVIDE TAMPER RESISTANT FASTENERS AT LOCATIONS DESIGNATED BY THE DISTRICT AS HIGH SECURITY (INTAKE AND EXHAUST).

DESIGN CRITER

BASIC WIND S WIND EXPOSU RISK CATEGOR

KEY NOTES				
REMARKS				
THREADED ROD, NUT AND WASHER, HILTI HIT-RE 500, $2\frac{3}{4}$ " EMBEDMENT				
11 GAUGE, OSHA COMPLIANT FAN GUARD				
© 1'-6" MAX ON CENTER				
GREENHECK'S LEVEL 1, 12"DIRECT DRIVE EXHAUST FAN, MODEL S1-12-432-D				
18 GAUGE				
COAT GUARD WITH THERMAL SETTING POLYESTER URETHANE				
GALVANIZED FRAME, ALUMINUM BLADES, VINYL BLADE SEALS, PULL CHAIN LINKAGE FOR MANUAL OPER				

(1) ALL MATERIALS 304L STAINLESS STEEL, UNLESS OTHERWISE NOTED
 (2) THREADED RODS, NUTS, WASHERS AND SCREWS: 316 STAINLESS STEEL

DIMENSION SCHEDULE		
RIPTION	REMARKS	
HOUSING OUTSIDE WIDTH	SEE TABLE BELOW	
HOUSING OUTSIDE HEIGHT	= WALL HOUSING OUTSIDE WIDTH	
HOUSING PROJECTION FROM	SEE TABLE BELOW	
OPENING WIDTH	SEE TABLE BELOW	
OPENING HEIGHT	= WALL OPENING WIDTH	
PROJECTION FROM WALL E MEASUREMENT)	= WALL HOUSING OUTSIDE WIDTH	
JM DISTANCE BETWEEN ILLER AND DAMPER	SEE TABLE BELOW	
NCE FROM CENTER OF HOOD S TO WALL	= 6" FOR FANS 18" AND SMALLER	

a	c	d	g
181⁄4	23	191⁄4	7

ALL DIMENSIONS GIVEN IN INCHES AND BASED ON GREENHECK FANS.

1. INSIDE OF HOOD, TOP AND SIDES, SHALL BE FLUSH WITH WALL OPENING. 2. EXHAUST FAN HOODS SHALL BE FABRICATED IN ACCORDANCE WITH SECTION 05550.

- 5. EACH HOOD SHALL BE PROVIDED WITH PROPERLY DESIGNED LIFTING LUGS TO FACILITATE HANDLING AND INSTALLATION. 6. EXHAUST FANS SHALL CONFORM TO SPECIFICATION SECTION 15510.
- DIMENSIONS ARE SOLELY FOR CONTRACTOR'S REFERENCE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS BASED ON EQUIPMENT SELECTED.
- 11. SOUND RATING SHALL COMPLY WITH OSHA STANDARDS.

RIA		
SPEED V	=	180 MPH
IRE	=	С
RY	=	IV (ADJUSTED FOR 200-YR MRI)



ELECTRICAL SPECIFICATIONS (NEC 2020)

GENERAL:

ENTIRE INSTALLATION TO COMPLY WITH THE NEC 2020 (NETA 70), THE FLORIDA BUILDING CODE, INFEA STANDAO AS APPLICARE IN ADDITION TO SECRIFICATIONS AS OUTIMED BELOW, ALL LECETRICAL WORK FOR THE EVINE PROJECT SHALL BE PERFORMED IN A NEAT AND CRAFTSMANLIKE MAINER BY PERSONS SKILLED IN THE TRADE, AND SHALL BE DONE UNDER THE SUPERVISION OF A MASTER ELECTRICAL LECERTEAD TO DO WORK IN THE AREA WHERE THE PROJECT IS TO BE CONSTRUCTED. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST COPY OF THE NATIONAL LECTRIC CONC DEPENSION.

SCOPE;

- . THE PROJECT INCLUDES ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PROVIDE A COMPLETE ELECTRICAL INSTALLATION INCLUDING, BUT NOT LIMITED TO, POWER SERVICES (TEMPORARY, NORMAL, AND STAND-BY OR BLERERGENCY), SWICHBOARDS, AUTOMATIC TRANSFER SWITCHES, SERVICES ENTRANCE(S), DISCONNECTS, DISTRIBUTION PARLES, CONDUIT, WRING, JUNCTION AND OUTLET BOXES, WRING DEVICES AND COVER PLATES, LIGHTING FIXTURES, CONNECTION CHORDS, SPECIAL CONNECTIONS AND OUTLET BOXES, WILLUSTRATEO ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES, UTILITY COMPANIES, AND GOVERNING AUTHORITIES.
- 2. THE ELECTRICAL CONTRACTOR TO FURNISH A MINIMUM 100 AMP SINGLE PHASE TEMPORARY SERVICE. POWER COMPANY FEES AND MONTHLY ELECTRIC BILL TO BE PAID BY THIS CONTRACTOR. CODES:
- . ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ANSI, NFPA70, STATE OF FLORIDA LAWS, AND ALL LOCAL RULES AND REGULATIONS, INCLUDING THE NATIONAL ELECTRIC CODE AND THE FLORIDA ENERGY CODE 2014. PERMITS:
- . ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND PAYING ALL FEES ASSOCIATED THEREWITH. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING INSPECTIONS, INCLUDING ALL FEES ASSOCIATED WITH RE-INSPECTIONS.

DRAWINGS:

. THE DRAWINGS ARE DIAGRAMMATIC, AND DO NOT SHOW ALL CHANGES IN HEIGHT, STRUCTURAL MEMBERS, DUCTWORK, PIPIS, BRACKETS AND ANY OTHER NUMBER OF THE WHICH MIGHT FLUSE A CONFLICT. THIS DUCTWORK, PIPIS, BRACKETS AND ANY OTHER NUMBER OF THE WHICH MIGHT FLUSE A CONFLICT. THIS DIAGNO, WHILE AND ANY ADDRESS AND CONDUCTIVE AND ADDRESS AND ADDRESS AND NECESSARY AREAS FOR PARIES AND CONDUCTIVENED UNITS, VERY AND CONCININGE ALL ELECTRICAL WORK WITH ALL TRADES TO PROVIDE A TIMELY INSTALLATION. ADDITIONAL CHARGES DUE TO LACK OF COORDINATION WILL NOT BE APPROVED.

MATERIAL:

ALL MATERIALS SHALL BE NEW, FREE FROM DEFECTS, AND SHALL BE LISTED BY AND BEAR THE U.L. LABEL WHERE SUBJECT TO APPOVAL MATERIALS SHALL BE OF THE SAME MANUFACTURER OR BRAND FOR EACH TYPE OF MATERIAL, UNLESS DESIGNATED OTHERWISE.

FIXTURES:

- 1. ALL FIXTURES SHALL BE AS LISTED IN THE LIGHTING FIXTURE SCHEDULES/ RECOMMENDATIONS. PANELS:
- . ALL PANELS TO BE FURNISHED AS PER PANEL SCHEDULE. SQUARE D, GE, AND SIEMENS ARE ACCEPTABLE MANUFACTURERS.
- ALL SWITCHBOARD AND OVERCURRENT DEVICES SHALL BE SERIES-RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT; VERIFY WITH LOCAL UTILITY COMPANY. SEE PANEL SCHEDULE. DEVICES:

- INTERIOR DISCONNECT SWITCHES SHALL BE NEMA 1 ENCLOSURES AND ELECTRICALLY PROTECTED AS PER MANUFACTURER'S SPECIFICATAIONS. (SEE MECHANICAL).
- SWITCHES SHALL BE 20 AMP, SPECIFICATION GRADE TOGGLE SWITCHES, SIDE WIRED WITH GROUNDING TERMINAL; COLOR SHALL BE WHITE (UNLESS NOTED OTHERWISE) WITH MATCHING COVERPLATE; MOUNTING HEIGHT SHALL BE COLOR SHALL BE WHITE +48" AFF TO BOTTOM.
- RECEPTACLES SHALL BE 15 AMP (MINIMUM), SPECIFICATION GRADE, SIDE WIRED WITH GROUNDING TERMINAL; COL SHALL BE WHITE (UNLESS NOTED OTHERWISE) WITH MATCHING COVERPLATE; MOUNTING HEIGHT NOTED IN SYMBOL LECEND OR NO BRAWING.
- ALL RECEPTACLES INSTALLED IN KITCHENS, OR WITHIN 6 FEET (6') OF A WATER SUPPLY (i.e.: SINK), SHALL BE GROUND FAULT CIRCUIT INTERRUPTER (G.F.C.I.) DEVICES WITH DOWNSTREAM DEVICES IDENTIFIED. ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN BATHROOMS SHALL HAVE GROUND~-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL.

BRANCH CIRCUIT WIRING:

- 1. ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE SPECIFIED ON PLANS.
- 2. MINIMUM BRANCH CIRCUIT WIRING SHALL BE #12 AWG THWN COPPER.

TYPICAL NOTES

- EQUIPMENT FURNISHED AND PHYSICALLY INSTALLED BY "OTHERS", ALL ELECTRICAL CONNECTIONS EXTERNAL TO THE EQUIPMENT SHALL BE MADE BY THE ELECTRICAL CONTRACTOR. WRE, CONDUIT, LUGS, RECEPTACES, PIGTALS, DISCONNECTS, ETC. AS MAY THE REQUERD SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. NOTE: INCLUDE WORSE CONDITION IN PRICING, VERY ROUGH-IN LOCATIONS, TYPE OF CONNECTION AND AMPACITY REQUIRED FOR APPLICABLE EQUIPMENT IN PRICING, VERY ROUGH-IN LOCATIONS, ANY CONDUIT, CONDUCTORS OR BOXES.
- 3. PROVIDE LIGHT FIXTURE AND RECEPTACLE AT LOCATIONS INDICATED FOR HVAC MAINTENANCE LIGHTING. USE COMBINATION SWITCH AND RECEPTACLE FOR LIGHT CONTROL. FIELD DETERMINES EXACT LOCATION AND HEIGHT
- 4. SWITCHED JUNCTION BOX IN CEILING FOR CEILING FAN OR LIGHT. NOTE: BOX MUST BE IDENTIFIED FOR FAN SUPPORT USE). ANCHOR TO STRUCTURE TO SUPPORT 75 LBS. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL FAN AND/OR LIGHT, AND ALL WRING, INCLUDING SWITCH AND POWER LEGS. VERIFY AND COORDINATE FAN TYPE WITH OWNER.

GENERAL NOTES: ELECTRICAL

ALL ELECTRICAL SWITCHGEAR, PANELS, AND DEVICES SHALL BE INSTALLED 1'-O" ABOVE FLOOD ELEVATION. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOD ELEVATION AND COORDINATE WITH GENERAL CONTRACTOR.

THE ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ALL ELECTRICAL SERVICE ROUGH-IN AND INSTALLATION DETAILS, FEES, WITH THE LOCAL POWER COMPANY/UTILTY FIELD ENGINEER PRIOR TO AND INSCUDE IN BIDI ELECTRICAL METERING EQUIPMENT AND METERING EDVICES ARE REQUIRED TO BE APPROVED BY POWER COMPANY.

THE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH ALL STATE/LOCAL BUILDING CODES/ORDINANCES/REGULATIONS PRESENTLY IN EFFECT. IN ADDITION, COMPLIANCE WITH THE NATIONAL ELECTRICAL CODES/ORDINANCES/ CODE (N.E.C.) 2020.

THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE IN ORDER TO FAMILIARIZE THEM SELF WITH EXISTING CONDITIONS, FAILURE TO DO SO WILL NOT WARRANT ANY ADDITIONAL CHARGES TO THE OWNER.

THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THEIR BID, ANY CUTTING OR PATCHING OF CONCRETE/ASPHALT PAVEMENTS, ETC. TO RUN ELECTRICAL.

ALL EQUIPMENT, FIXTURES, ETC. SHALL BE STARTED, TESTED, ADJUSTED AND PLACED IN SATISFACTORY OPERATING CONDITION. THIS CONTRACTOR SHALL GUARANTEE ALL WORKMANSHP, MATERIALS AND EQUIPMENT TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR FORM DATE OF CERTIFICATE OF OCCUPANCY (C.O.), AND SHALL REPAIR ANY SUCH DEFECTS WITHOUT COST TO THE OWNER. ALL EQUIPMENT SHALL BE COVERED FOR THE DURATION OF THE MANUFACTURE'S GUARANTEE OR WARRANTY. THIS CONTRACTOR SHALL FURNISH THE OWNER WITH ALL MANUFACTURER'S GUARANTEE AND WARRANTES.

THE ELECTRICAL, GENERAL, HVAC, AND PLUMBING CONTRACTOR(S) SHALL STRICTLY ADHERE TO THE FOLLOWING ITEMS WHEN DEALING WITH ELECTRICAL EQUIPMENT CLEARANCES:

- A. NO PIPING OR DUCTWORK OF ANY KIND SHALL BE INSTALLED ABOVE ANY SWITCHBOARD OR PANELBOARD. THIS AREA TO REMAIN CLEAN FROM THE EQUIPMENT TO 25" ABOVE OR TO THE BOTTOM OF THE STRUCTURAL SLAB.
- A CLEARANCE OF 36" MINIMUM SHALL BE MAINTAINED IN FRONT OF ELECTRICAL EQUIPMENT FOR THE ENTIRE WIDTH OF THE EQUIPMENT, PLUS A MINIMUM OF 30" TOTAL LEFT/RIGHT CLEARANCE.
- ALL "WEATHERPROOF" ("WP") DEVICES ARE TO BE INSTALLED WITH A WEATHER-SHIELDING COVER.
- ALL ELECTRICAL CONDUITS NOT CONTAINING SPECIFIED CONDUCTORS SHALL HAVE A PULL WIRE INSTALLED.
- DO NOT SCALE THE ELECTRICAL DRAWINGS; REFER TO THE ARCHITECTURAL PLANS FOR EQUIPMENT LOCATIONS, CABINETRY, CEILING GRIDS, DOOR SWINGS, ETC.

THE INTENT OF THESE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATIONAL ELECTRICAL INSTALLATION

IT IS NOT THE INTENT OF THESE PLANS TO SHOW ALL DETAILS OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS SUCH AS HARDWARE, J-BOXES, CONDUIT FITTINGS, ETC., AS NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM INSTALLATION.

GENERAL NOTES: ELECTRICAL (CONTINUED)

TECHNICIANS SKILLED IN THEIR TRADE SHALL PERFORM ALL ELECTRICAL INSTALLATIONS IN A PROFESSIONAL MANNER.

- WIRE TO, AND MAKE CONNECTIONS AS NECESSARY, TO ALL PIECES OF EQUIPMENT (FURNISHED BY OTHERS), FOR COMPLETE AND SATISFACTORY OPERATION BY THE OWNER.
- ALL ELECTRICAL PANELS SHALL BE LABELED WITH THEIR RESPECTIVE SOURCES PER NEC 408.4(B) ALL SERVICE AND FEEDER CONDUITS SHALL HAVE EXPANSION FITTINGS WHEN PENETRATING SLABS, ETC. TO ALLOW FOR STRUCTURAL SETTLEMENT.
- PROVIDE "PVC" CONDUITS STUBBED OUT, BELOW GRADE FOR ADDITIONAL SERVICES, IN ORDER TO PROVIDE CONCEALED TELEPHONE AND/OR DATA SERVICE ENTRANCE.
- PROVIDE TIME CLOCKS WITH BATTERY BACK-UP TO CONTROL ALL SIGNAGE AND EXTERIOR LIGHTING CIRCUITS; SEE POWER RISER DIAGRAM FOR ADDITIONAL DETAILS.
- ALL CONDUCTORS SHALL BE TYPE THHN/THWN, COPPER (CU) UNLESS OTHERWISE CALLED FOR ON THESE DOCUMENTS. SEE PANEL SCHEDULES AND RISER DIAGRAM.

ALL LIGHTING FIXTURES (INCLUDING THOSE PROVIDED BY OTHERS) ARE TO BE INSTALLED UNDER THIS CONTRACT. SEE SCHEDULE FOR FIXTURE RECOMMENDATIONS, LAMPS, ETC.

NOTICE TO CONTRACTOR: REVISIONS TO THESE DRAWINGS AND CERTIFICATION THEREOF WHICH MAY BE REQUIRED BECAUSE OF <u>CONTRACTOR OFTED REVISIONS</u>, SHALL BE COMPENSATED TO THE ENGINEER(S) BY THE REQUESTING CONTRACTOR. PAYMENT SHALL BE REQUIRED AT THE TIME OF CERTIFICATION DELIVERY. INSTALLATION:

GENERAL:

- ROUGH-IN LOCATIONS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, AS WELL AS EQUIPMENT SIZE, TO AVOID CONFLICT WITH OTHER TRADES.
- PRIOR TO ROUGH-IN, THE ELECTRICAL CONTRACTOR SHALL RELOCATE, AS DIRECTED BY THE OWNER/ARCHITECT, ANY PIECE OF EQUIPMENT IN THE VERTICAL AND/OR HORIZONTAL DIRECTION UP TO 15-0° FROM THE LOCATION SHOWN ON THE DRAWINGS AT NO ADDITIONAL COSTS TO THE OWNER. WIRING METHODS

- BELOW GRADE: SINGLE- OR MULTI-CONDUCTOR COPPER WRE WITH GROUND, MEETING N.E.C. AND NEMA REQUIREMENTS, IN APPROVED NONMETALLIC CONDUIT. CONDUIT MAY BE RUN IN OR BELOW CONCRETE, AND CONCEALED IN WALLS TO FIRST BOXES. ALL PVC COMPONENTS (PIPING, FITTINGS, CEMENT, ETC.) SHALL BE FROM THE SAME MANUFACTURER.
- EXTERIOR ABOVE GRADE: SINGLE- OR MULTI-CONDUCTOR COPPER WIRE WITH GROUND, MEETING N.E.C. AND NEMA REQUIREMENTS, IN APPROVED METALLIC OR NONMETALLIC CONDUIT. ALL COMPONENTS (PIPING, FITTING ETC.) SHALL BE FROM THE SAME MANUFACTURER.
- NOTE: MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL BE SIX FEET (6*).
- EXTERIOR EQUIPMENT: SINGLE- OR MULTI-CONDUCTOR COPPER WIRE WITH GROUND, MEETING N.E.C. AND NEMA REQUIREMENTS, IN APPROVED LIQUIDITOHT FLEXIBLE METALLIC CON NONMETALLIC CONDUIT (MINIMUM 3/4"). ALL COMPONENTS (PPING, TITINGS, ETC.) SHALL BE FROM THE SAME MANUFACTURER.
- NOTE: MAXIMUM LENGTH OF FLEXIBLE CONDUIT BETWEEN MEANS OF DISCONNECT (OR JUNCTION BOX) AND EQUIPMENT SHALL BE THREE FEET (3').
- 4. INTERIOB: SINGLE- OR MULTI-CONDUCTOR COPPER WIRE WITH GROUND, MEETING N.E.C. AND NEMA REQUIREMENTS, IN APPROVED METALLIC (EMT) CONDUIT. ALL COMPONENTS (PIPING, FITTINGS, ETC.) SHALL BE FROM THE SAME MANUFACTURER: CONDUITS SHALL BE CONCEALED IN OR BEHIND CEILINGS, WALLS, OR FLOORS, EXCEPT WHERE EXPOSED RACEWAYS ARE SPECIFICALLY PERMITTED.
- NOTE: EMT SHALL NOT BE INSTALLED IN LOCATIONS (1) SUBJECT TO SEVERE DAMAGE, (2) IN CONTACT WITH EARTH, (3) IN CONCRETE SLABS ON GRADE, (4) OTHER LOCATIONS AS LISTED IN N.E.C. 2014, ARTICLE 358.12.
- EXCEPTION: NON-METALLIC SHEATHED CABLE (NM, NMC, NMS) MAY BE USED WITHIN DWELLING UNITS, IN COMPLIANCE WITH NEC. 2014, ARTICLE 334.
- 5. ELECTRICAL SYSTEM EXPANSION: ANY PANELBOARD MOUNTED SO THAT ITS FRONT FACE IS FLUSH WITH THE FINISHED WALL SHALL HAVE ONE (1) 3/4" EMT CONDUIT INSTALLED FROM PANELBOARD TO ACCESSIBLE CELLING SPACE FOR EVERY FOUR (4) OR MANOR FRACTION THEREOF, POLES INDICATED AS "SPACE" OR "SPARE" IN THE PANELBOARD SCHEDULE PER THESE DOCUMENTS.
- EXCEPTION NO. 1: PANELBOARDS INSTALLED ON A WALL SURFACE, WHERE AT LEAST THREE (3) SIDES, NOT INCLUDING THE FRONT, REMAIN ACCESSIBLE AFTER CERTIFICATE OF OCCUPANCY SHALL NOT BE REQUIRED TO MEET #6320.5.
- EXCEPTION NO. 2: DWELLING UNITS SHALL NOT BE REQUIRED TO MEET #16320.5.
- 6. ELECTRICAL BOXES: ALL OUTLET, DEVICE, AND JUNCTION BOXES SHALL BE STANDARD 4" SQUARE GALVANIZED STEEL OR APPROVED PLASTIC, 1-1/2" DEEP, WITH DEVICE RINGS OF THE SAME WATERIAL, JUNESS OTHERWISE NOTED, GALVANIZED BOXES SHALL BE MANUFACTURED BY APPLETON, NATIONAL, STEEL CITY, RACO OR APPROVED EQUAL, PLASTIC GAVES SHALL BE ALLED, NELCO, CARLON, OR EQUAL. ALL ELECTRICAL BOXES MUST BE ACCESSABLE AFTER CERTIFICATE OF OCCUPANCY.
- 7. THRU-FEEDS: MAINTAIN THRU-FEEDS ON ALL ELECTRICAL DEVICES AT C.O.
- EQUIPMENT:
- WRE TO, AND MAKE CONNECTIONS TO, ALL PIECES OF EQUIPMENT FURNISHED BY OTHERS FOR COMPLETE AND SATISFACTORY OPERATION BY OTHERS.
- 2. THIS CONTRACT TO INCLUDE CONNECTION OF LINE VOLTAGE ONLY. CONTROL WIRING TO BE BY THE HVAC CONTRACTOR.

GROUNDING

- THE ENTIRE ELECTRICAL CROUNDING SYSTEM SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF SECTION 2506 AND 250.22 OF THE NATIONAL ELECTRIC CODE. INCLUDING BUT HOT INTED TO. THE ELECTRICAL SERVICE, ITS EQUIPMENT AND ENCLOSURE, CONDUTS AND OTHER CONDUCTIVE ENCOULDED TO. INCUTRAL OR DENTIFIED CONDUCTOR OF INTERIOR WINING SYSTEM, MAIN PANELBOARD, POWER AND LICHTING PANELBOARDS, NON-CURRENT-CARRYING METAL PARTS OF FIXED EQUIPMENT SUCH AS MOTORS, STARTER AN CONTROLLER CABINETS, INSTRUMENT CASES AND LICHTING FIXTURES.
- PROVIDE A SERVICE GROUND ACCORDING TO N.E.C. ARTICLE 250. THE MINIMUM INSTALLATION TO INLICLUDE: BUILDING FOOTE#/FOUNDATION REINFORCING STELL TURKED UP OR OTHERWISE EXPOSED AT THE SERVICE LOCATION THE AFFRRED DIMINER OF DEATH A GROUNDING CONJUCTOR SIZED PER TABLE 250 TO THE AVAILABLE ON THE PREMISES, ALSO BORDO METAL COLD WATER PIPING, METAL BUILDING FRAME AND GROUND RING WITH JUMPERS SIZED FROM 250-94.
- ALL TELEPHONE, DATA, TELEVISION, AND OTHER TERMINAL EQUIPMENT SHALL BE BONDED TO THE GROUNDING ELECTRODE WITH MINIMUM #6 AWG-CU. WARRANTY: NOTE

- ELECTRICAL CONTRACTOR TO PROVIDE FULL WARRANTY (PARTS AND LABOR) ON ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE SCOPE OF WORK FOR A PERIOD OF ONE YEAR FROM THE CERTIFICATE OF OCCUPANCY.
- E.C. SHALL PROVIDE OWNER AND ENGINEER WITH REPRODUCIBLE "AS-BUILT" DRAWINGS SHOWING ALL REQUIRED MODIFICATIONS THAT HAVE OCCURRED IN THE FIELD.

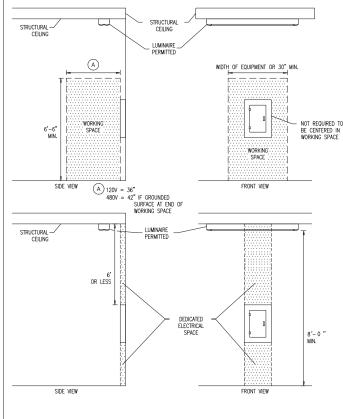
ELEVATOR ROOMS (AS APPLICABLE)

ALL ELEVATOR MACHINE ROOMS SHALL BE PROVIDED WITH A FUSED DISCONNECT FOR ALL EQUIPMENT INCLUDING EQUIPMENT ROOM AIR COMDITIONING SYSTEMS, LIGHTING, RECEPTACLES, ETC. (REGARDLESS OF PLAN SYMBOL) IN ACCORDANCE WITH ASME AT71 SITE VERIFICATION NOTES

ALL ITEMS ON THESE DRAWINGS MARKED AS "EXISTING" OR "EXIST" SHALL BE VERIFIES IN FIELD ANY DIFFERENCES BETWEEN ITEMS OR EQUIPMENT INDICATED AS EXISTING SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEE OR ARCHITECT.

PRIOR TO CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL VERIFY THAT THE PHASE TO PHASE VOLTAGE AVAILABLE IS EQUAL TO EACH OTHER, AND EQUAL TO VOLTAGE SHOWN ON THESE DRAWINGS. A DIFFERENCE IN PHASE TO PHASE VOLTAGE MAY INDICATE THE PRESENCE OF A "HIGH LEG" DELTA SYSTEM. ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR REQUIRED REVISIONS.

SPLIT PHASE CIRCUIT BREAKERS ARE NOT PERMITTED TO BE INSTALLED ON HIGH LEG DELTA SYSTEMS. HIGH LEG DELTA SYSTEMS SHALL BE LABELED PER 408.3 AND THE HIGH LEG CONDUCTOR TO BE MARKED PER 110.15.



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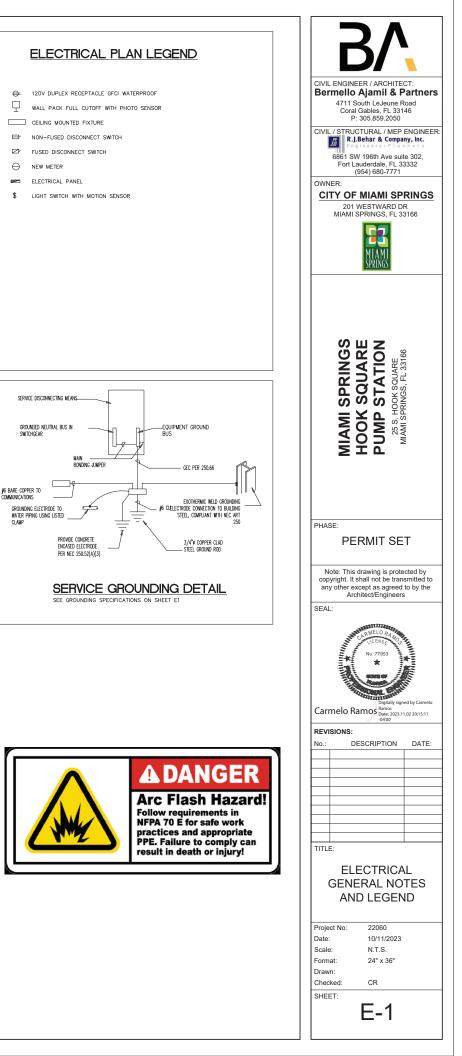
WORKING SPACE/DEDICATED ELECTRICAL SPACE AT PANEL BOARDS DETAIL

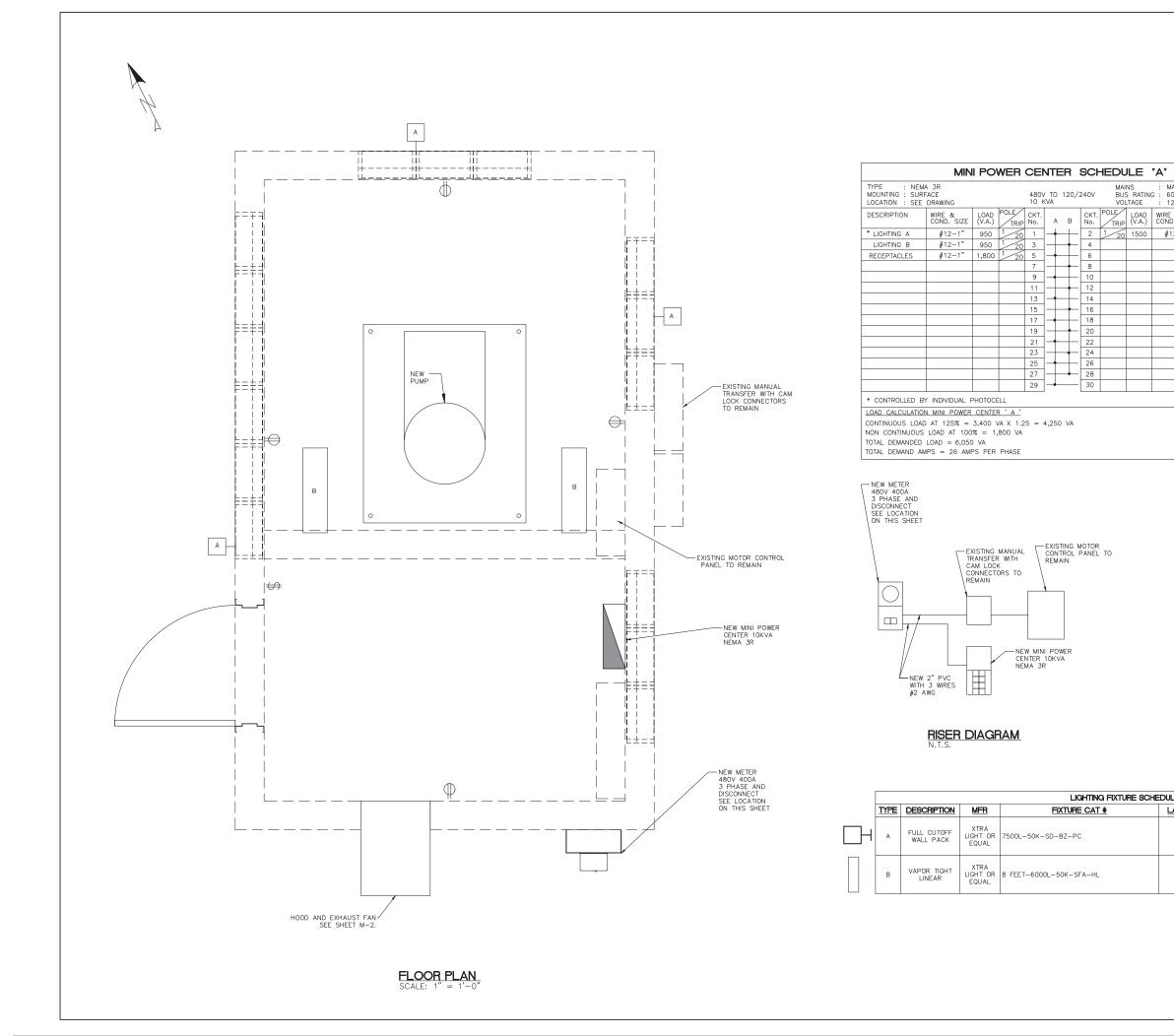
GENERAL ELECTRICAL NOTES

- CONTRACTOR SHALL PROVIDE CATALOG CUT SHEET SUBMITTALS FOR ALL EQUIPMENT AND MATERIALS UNDER CONTRACTORS SCOPE OF SUPPLY. OWNER APPROVAL IS REQUIRED PRIOR TO PROCUREMENT.
- ALL ELECTRICAL MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BE UL LISTED AND SHALL BEAR THE UL LABEL.
- ALL WORK SHALL COMPLY WITH THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
- 4. CONDUIT ROUTING SHOWN ON THE DRAWINGS IS SCHEMATIC. CONTRACTOR TO COORDINATE INSTALLATION WITH OTHER TRADES.
- CONTRACTOR SHALL FURNISH AND INSTALL PERMANENT BRADY HEAT SHRINK WIRE LABELS, WITH UNIQUE WIRE NUMBERS, FOR ALL WIRES INSTALLED UNDER THIS PROJECT.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW TYPEWRITTEN PANEL SCHEDULES FOR ALL POWER PANELS AND PANELBOARDS AFFECTED BY THIS PROJECT.
- 7. CONTRACTOR SHALL FURNISH AND INSTALL BLACK PHENOLIC NAMEPLATES ETCHED TO REVEAL 1/4*WHITE LETTERS FOR ALL ELECTRICAL EQUIPMENT INSTALLED IN FLECTRIC ROOMS OR COMMON AREA LOCAL DISCONNECT SHALL BE LABELED WITH EQUIPMENT NUMBER OF THE EQUIPMENT FED, AND SHALL INDICATE SOURCE OF SUPPLY.

EQUIPMENT NO "FOUIPMENT NO. FED FROM "PANEL NO.~ CALCULATED AIC & DATE

- 8. LIGHT SWITCHES SHALL BE MOUNTED AT 48" AFF.
- PROVIDE UL LISTED THROUGH PENETRATION FIRESTOP SYSTEM FOR FIRE RATED WALL PENETRATIONS.
- 10. CONTRACTOR SHALL PROVIDE GALVANIZED STEEL, OR EQUAL, SUPPORT BRACKETS AS REQUIRED FOR ALL DISCONNECTS SWITCHES, PANELS, ETC.
- 11. CONTRACTOR SHALL COORDINATE LOCATION OF INDUSTRIAL LIGHT FIXTURES IN MECHANICAL SPACES TO AVOID MECHANICAL EQUIPMENT AND DUCTWORK.
- 12. CONTRACTOR SHALL LABEL ALL EQUIPMENT WITH ARC FLASH HAZARD SIGN:





D. SIZE	(-1PHASE-3WIRE DESCRIPTION
12-1"	FAN MOTOR

SCOPE:

1-REMOVED THE EXISTING METER, ALL ELECTRIC CABLES, CONDUITS, RECEPTACLES AND ELECTRIC GEARS NOT TO BE USED FOR THIS PROJECT

2-INSTALL METER.

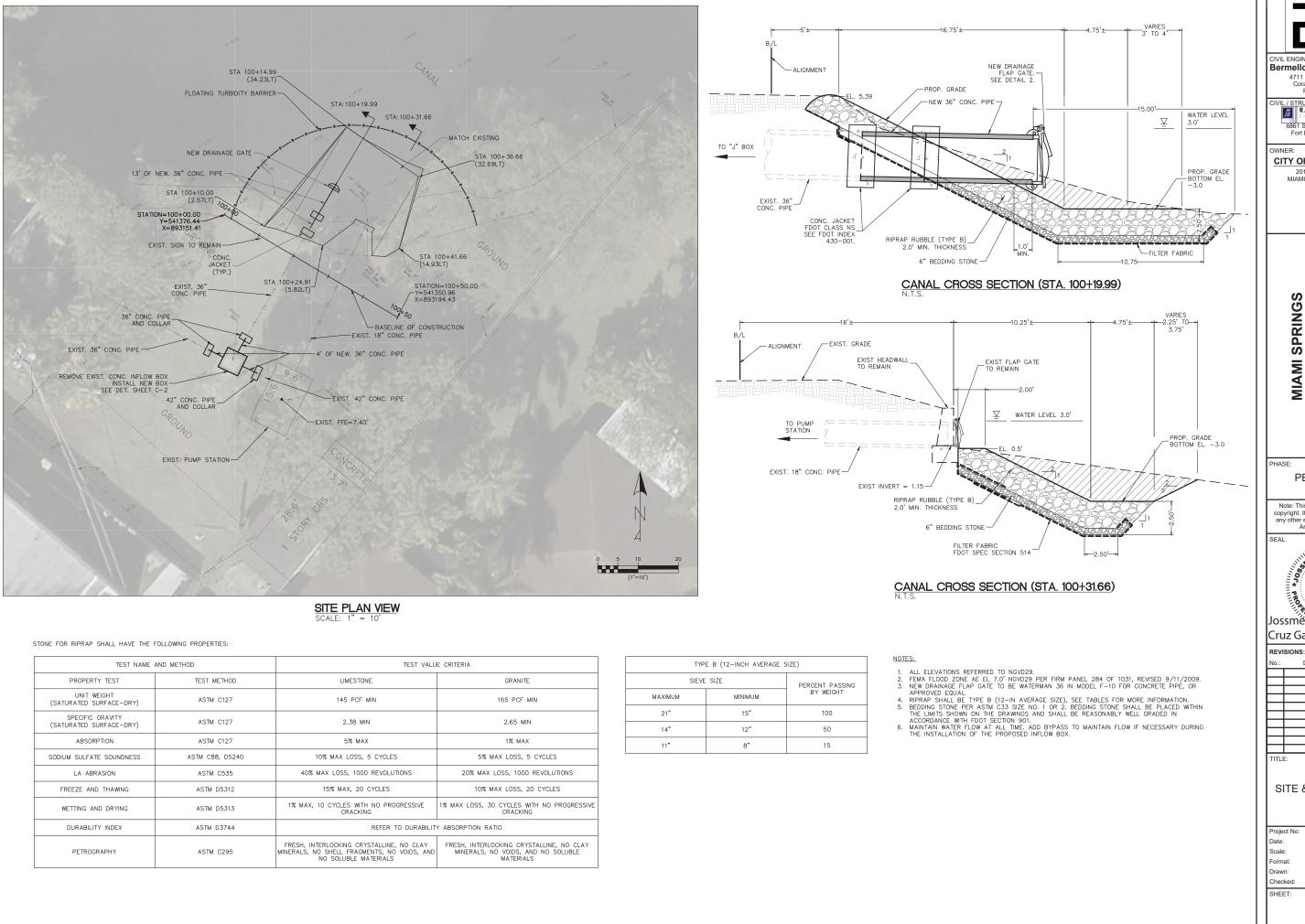
3-INSTALL NEW MINI POWER CENTER. 4-INSTALL NEW OUTDOOR LIGHTING FIXTURES PER SCHEDULE.

5-INSTALL NEW INDOOR LIGHTING FIXTURES PER SCHEDULE WITH MOTION SENSOR SWITCH.

6-REWIRE NEW FURNISHED PUMP TO THE EXISTING MOTOR CONTROL PANEL.

LE					
_AMPS	VOLT	MOUNTING	NOTES		
3	120	WALL	SEE DETAILS FOR INSTALLATION. ANTI-VANDALISM.		
2	120	CEILING	SEE DETAILS FOR INSTALLATION. HAZARDOUS LOCATION		

ΒV				
CIVIL ENGINEER / ARCHITECT: Bermello Ajamil & Partners 4711 South LeJeune Road Coral Gables, FL 33146 P: 305.859.2050				
CIVIL / STRUCTURAL / MEP ENGINEER: R.J.Behar & Company, Inc. Engineerster Planners 6861 SW 196th Ave suite 302, Fort Lauderdale, FL 33332 (954) 680-7771				
OWNER: CITY OF MIAMI SPRINGS 201 WESTWARD DR				
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Architect/Engineers SEAL:				
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Carmelo Ramos Date: 2023.11.02 20:15:34-04'00'				
REVISIONS: No.: DESCRIPTION DATE:				
ELECTRICAL FLOOR PLAN				
Project No: 22060				
Date: 10/11/2023 Scale: N.T.S.				
Format: 24" x 36" Drawn:				
Checked: CR SHEET:				
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TEST NAME A	AND METHOD	TEST VALU	IE CRITERIA		
PROPERTY TEST TEST METHOD		LIMESTONE	GRANITE		
UNIT WEIGHT (SATURATED SURFACE-DRY) ASTM C127		145 PCF MIN	165 PCF MIN		
SPECIFIC GRAVITY (SATURATED SURFACE-DRY)			2.65 MIN		
ABSORPTION	ASTM C127	5% MAX	1% MAX		
SODIUM SULFATE SOUNDNESS	ASTM C88, D5240	10% MAX LOSS, 5 CYCLES	5% MAX LOSS, 5 CYCLES		
LA ABRASION	ASTM C535	40% MAX LOSS, 1000 REVOLUTIONS	20% MAX LOSS, 1000 REVOLUTIONS		
FREEZE AND THAWING ASTM D5312		15% MAX, 20 CYCLES	10% MAX LOSS, 20 CYCLES		
WETTING AND DRYING	ASTM D5313	1% MAX, 10 CYCLES WITH NO PROGRESSIVE CRACKING	1% MAX LOSS, 30 CYCLES WITH NO PROGRESSIVE CRACKING		
DURABILITY INDEX ASTM D3744		REFER TO DURABILITY ABSORPTION RATIO			
PETROGRAPHY ASTM C295		FRESH, INTERLOCKING CRYSTALLINE, NO CLAY MINERALS, NO SHELL FRAGMENTS, NO VOIDS, AND NO SOLUBLE MATERIALS	FRESH, INTERLOCKING CRYSTALLINE, NO CLAY MINERALS, NO VOIDS, AND NO SOLUBLE MATERIALS		

TYPE B (12-INCH AVERAGE SIZE)				
SIEVE	SIEVE SIZE			
MAXIMUM	MINIMUM	BY WEIGHT		
21"	15"	100		
14"	12"	50		
11"	8"	15		

CIVIL ENGINEER / ARCHITECT: Bermello Ajamil & Partners
4711 South LeJeune Road
Coral Gables, FL 33146 P: 305.859.2050
CIVIL / STRUCTURAL / MEP ENGINEER:
R.J.Behar & Company, Inc. Engineers · Planners
6861 SW 196th Ave suite 302,
Fort Lauderdale, FL 33332 (954) 680-7771
OWNER:
201 WESTWARD DR
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ATTACHMENT "C"

REPORT OF GEOTECHNICAL EXPLORATION

SOUTH HOOK SQUARE PUMP STATION 100 FEET FROM SOUTH HOOK SQUARE MIAMI SPRINGS, FLORIDA

FOR

BERMELLO AJAMIL & PARTNERS, INC. 2601 SOUTH BAYSHORE DRIVE / STE. 1000 MIAMI, FLORIDA 33133

PREPARED BY

NUTTING ENGINEERS OF FLORIDA, INC. 2051 NW 112TH AVE, SUITE 126 MIAMI, FLORIDA 33172

ORDER NO. 334.9

OCTOBER 2023



Geotechnical & Construction Materials Engineering, Testing, & Inspection Environmental Services

Offices throughout the state of Florida

www.nuttingengineers.com info@nuttingengineers.com



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www.nuttingengineers.com info@nuttingengineers.com

October 11, 2023

(Revised from September 15, 2023)

Mr. Jose Lopez Bermello Ajamil & Partners, Inc. 2601 S. Bayshore Drive/ Ste. 1000 Miami, Florida 33133 Phone: 305-829-2050 / Cell: 954-260-5383

Email: jlopez@bermelloajamil.com

Subject: Report of Geotechnical Exploration South Hook Square Pump Station 100 Feet from South Hook Square Miami Springs, Florida

Dear Mr. Lopez:

Nutting Engineers of Florida, Inc. (NE), has performed a Geotechnical Exploration for the proposed wet well installation at the above referenced site in Miami Springs, Florida. This exploration was performed in accordance with the signed Subcontract for Professional Services between Bermello Ajamil & Partners, Inc. and Nutting Engineers of Florida, Inc., dated August 9, 2023. This evaluation was performed to develop limited information regarding subsurface soil conditions at specific test locations which along with proposed construction information provided were used to develop opinions regarding general earthwork procedures and foundations for support of the proposed construction. This report presents our findings and recommendations based upon the information examined at the time of this evaluation.

PROJECT INFORMATION

Per our conversation on July 24, 2023 and review of the aerial provided, and the outfall refurbishment plan provided on September 7, 2023, we understand that plans for this project include replacing the existing inflow box structure located to the west of the existing pump station and refurbishing the outfall of the existing canal at the referenced site. We understand that the bottom depth of the inflow box approximately seven feet below existing grades. The existing pump station will remain and no new wet wells will be installed. We understand that plans for outfall refurbishment include excavation/dredging and restoring the existing canal outfall with rip rap. The design of the outfall refurbishment is being performed by others.

GENERAL SUBSURFACE CONDITIONS

Soil Survey Maps

As part of the geotechnical study, we reviewed the Department of Agriculture Soil Survey of Miami-Dade County. These SCS maps provide qualitative information about potential general shallow soil conditions in the project vicinity. This information was derived from approximately 6 ft. deep manual auger borings, aerial photo and surface feature interpretation at some point in the past (mid 1980's to early 1970's). The SCS data may or may not reflect actual current site conditions. A review of the Soil Survey for Dade County revealed that at the time the survey was conducted, the soils at the site were described as Urban land. This map unit is in areas where shopping centers, parking lots, streets, sidewalks, airports, large buildings, houses, and other structures cover more than 85 percent of the surface. The natural soil cannot be observed. The soils in open areas, mostly lawns, vacant lots, playgrounds, and parks are mainly Udorthents. We note that the maximum depth of the survey is approximately 6 feet.

Subsurface Exploration

NUTTING ENGINEERS OF FLORIDA, INC. performed one (1) Standard Penetration Test (SPT) borings (ASTM D-1586) to a depth of thirty feet below land surface. The location of the test boring is indicated on the boring location plan presented in the Appendix of this report. The boring location was identified in the field using approximate methods; namely, a measuring wheel and available surface controls. As such the test boring location should be considered to be approximate.

Test Boring Results

In general, the test boring recorded a surficial layer of approximately ren inches of topsoil underlain by medium dense to very loose light gray to light brown fine sand to depth of about five feet. Soft light brown and light gray limestone with fine sand was then encountered to a depth of about seventeen feet. The limestone formation was underlain by loose light gray fine sand (with or without limestone fragments) to thirty feet, the maximum depth explored. A detailed description of the soil/rock interlayering is given on the test boring log in the Appendix.

Rock Formation Note: Generally, rock in the South Florida area may include limestone or sandstone which have irregularities and discontinuities including vertical and horizontal solution features, varying surface and bottom elevations, and varying degrees of hardness. The rock features may also contain intervening sand/silt and other material filled lenses. When these features are penetrated with a split spoon, very loose soil is typically indicated even though the rock surrounding the soil filled solution hole may be very hard. Both horizontal and vertical discontinuities in the rock strata can complicate excavation and dewatering operations substantially. The standard penetration test boring executed in this evaluation was performed in accordance with the normal standard of care in this area. Despite this, this process may sometimes fail to detect the presence of rock strata by passing through solution features.



Solution features can be very common in rock strata in Southeast Florida. For these reasons it is strongly recommended that underground work, dewatering design and implementation be performed by parties with extensive local experience with similar types of installation.

Groundwater Information

The immediate groundwater level was measured at the boring location at the time of drilling. The groundwater level was encountered at approximately five feet below the existing ground surface at the time of drilling.

The immediate depth to groundwater measurements presented in this report may not provide a reliable indication of stabilized or longer-term depth to groundwater at this site. Water table elevations can vary dramatically with time through rainfall, droughts, storm events, flood control activities, nearby surface water bodies, tidal activity, pumping and many other factors. For these reasons, this immediate depth to water data **should not** be relied upon alone for project design considerations.

ANALYSIS AND RECOMMENDATIONS

Proposed Inflow Box Structure

The borings performed for this project suggests that the soils encountered are suitable for support of the proposed inflow box structure using a shallow foundation system, based on an anticipated bottom depth of seven feet below existing grades. Once the site is successfully prepared in accordance with the recommendations presented in this report, the site may be developed with the proposed new inflow box structure using a shallow foundation system designed for an allowable soil bearing pressure of 3,000 pounds per square foot.

Once plans are more finalized for the proposed construction, we should review the plans to determine whether additional details or changes to our recommendations are warranted. All work should be completed in accordance with applicable codes, other regulations as appropriate, and good standard local practice.

Site Preparation – Proposed Inflow Box Structure

The surficial organic soils, debris from the clearing operations, and any unsuitable soils as determined by the Geotechnical Engineer will need to be completely removed within the construction area and to a lateral distance of at least three feet beyond the footprint limits. A Nutting Engineer's representative should be present to observe that the stripping operations are performed as we have discussed herein.

When this has been completed, the proposed replacement inflow box structure area should be excavated to the required depth which we understand will be approximately seven feet. We were not provided specific plans indicating whether the box will be pre-cast or cast-in-place. Therefore, if dewatering is needed, the dewatering plan and implementation should be performed by knowledgeable individuals having local experience.



Excavations

An unsupported vertical cut is not considered stable or safe during construction. An unsupported excavation may cause the collapse of the sidewalls. Therefore, in our opinion and following the current regulations established by OSHA for excavations, cut slopes may be required depending on the method of installation. It is our opinion that if the excavation remains dry, temporary side slopes of 3 horizontal to 1 vertical may be used for this project. If slopes cannot be maintained, then the excavation must be cased or shored. Shoring procedures should conform to those presented in the Occupational Safety and Health Administration (OSHA) standards.

Subsurface Soil Engineering Properties – Proposed Outfall Refurbishment

In order to provide design parameters for the proposed outfall refurbishment, the values given in the accompanying table should be consulted. The table is based on visual classification, empirical relationships and our experience with similar soil conditions. If more exact values are needed, we recommend that specific laboratory tests be performed.

The borings performed for this project generally encountered sands to depth of about five feet, underlain by a limestone formation extending to a depth of about seventeen feet, followed by sands with limestone fragments or shells to depth of thirty feet. Groundwater was encountered at a depth of about five feet, with an estimated elevation of +3 feet NAVD, based on an estimated ground surface elevation of +7 to +8 feet NAVD. The canal stabilization plans indicate that the maximum water depth in the area of the improvements is approximately six feet (-3 feet NAVD), with the canal water surface at approximately +3 feet NAVD. We understand that rip rap will be used to provide a slope of 2 horizontal to 1 vertical. If steeper slopes are needed, we should be notified to provide alternatives and discussions should be held with all interested parties to determine the best alternative.

GENERAL INFORMATION

Our client for this geotechnical evaluation was:

Bermello Ajamil & Partners, Inc. 2601 S. Bayshore Drive/ Ste. 1000 Miami, Florida 33133

The contents of this report are for the exclusive use of the client, the client's design & construction team and governmental authorities for this specific project exclusively. Information conveyed in this report shall not be used or relied upon by other parties or for other projects without the expressed written consent of Nutting Engineers of Florida, Inc. This report discusses geotechnical considerations for this site based upon observed conditions and our understanding of proposed construction for foundation support. Environmental issues including (but not limited to), soil and/or groundwater contamination, and other environmental considerations are beyond our scope of service for this project. As such, this report should not be used or relied upon for evaluation of environmental issues.



If conditions are encountered which are not consistent with the findings presented in this report, or if proposed construction is moved from the location investigated, this office shall be notified immediately so that the condition or change can be evaluated, and appropriate action taken.

Nutting Engineers of Florida, Inc. (NE), recommends that we be contracted to provide input to the design team and owner during the foundation and earthwork design process and that we review final foundation drawings and specifications to verify that our report recommendations and design intent have been properly implemented. NE shall also perform testing during the earthwork and foundation construction as recommended in this report. If NE is not engaged to perform these services as detailed herein, the Client agrees that NE shall bear no liability for the interpretation, implementation of our report, its recommendations and/or inspection and testing services as described in this report if implemented by others.

The Geotechnical Engineer warrants that the findings, recommendations, specifications, or professional advice contained herein, have been presented after being prepared in accordance with general accepted professional practice in the field of foundation engineering, soil mechanics and engineering geology. No other warranties are implied or expressed.

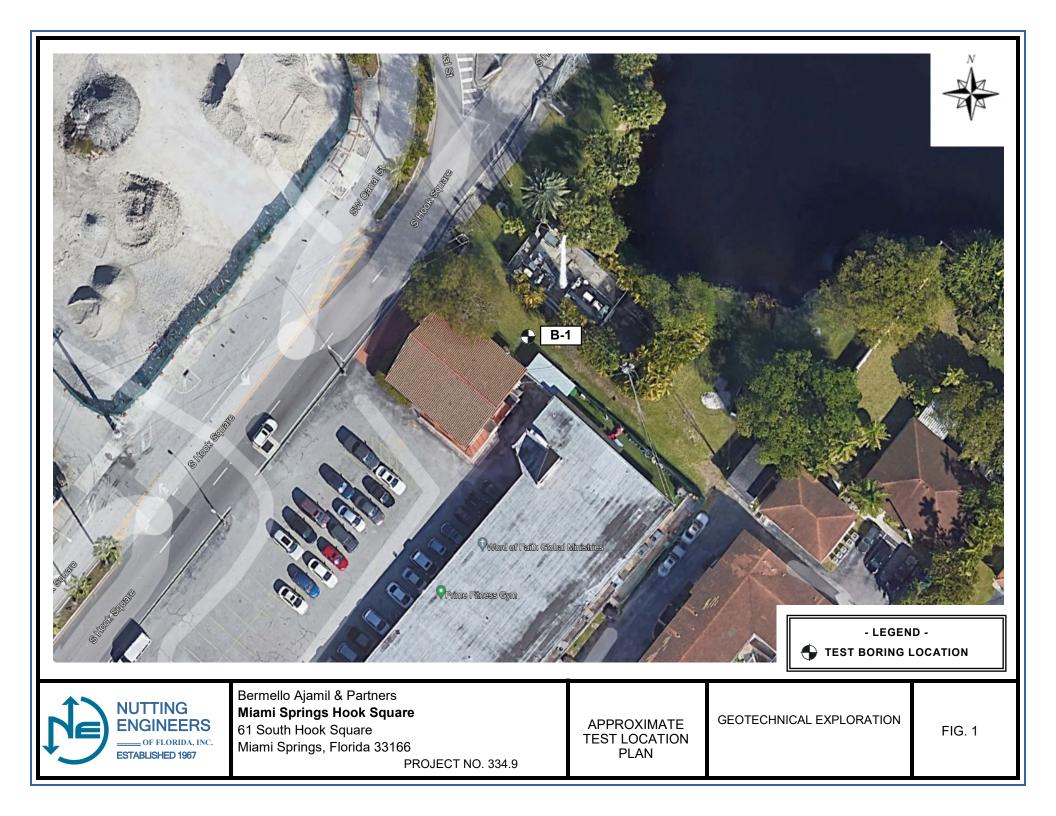
We appreciate the opportunity to be of service on this project. If we can be of any further assistance, or if you need additional information, please contact us at your convenience.

Sincerely, NUTTING ENGINEERS OF FLORIDA, INC.

Colin T. Henderson, P.E. #96283 Project Engineer

Appendix: Boring Location Plan Test Boring Result Soil Properties Table Limitations of Liability Soil Classification Criteria Richard Wohlfarth, P.E #50858 Principal / Director of Engineering





	Nutting Engineers of Florida				BORING NUMBER B-1 PAGE 1 OF 1					
			Bermello Ajamil & Partners LOCATION _100' from South Hook Square, Miami S	PROJEC	T NAME	ER <u>334.9</u> <u>Miami Springs</u>	Hook S	Square		
	DRIL LOG	LING GED I	RTED _8/30/23 COMPLETED _8/30/23 METHOD _Standard Penetration Boring BY _Dancor CHECKED BY _C. Henderson MATE LOCATION OF BORING _As located on site plan	GROUNI ⊈AT	O WATEF	TION REFERENC R LEVELS: DRILLING <u>4.8 ft</u>		me as roa	d crow	<u>n</u>
	o DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION		SAMPLE TYPE NUMBER	Blows	N-Value	10 PL 20 □ FINES	20 3 MC 40 6	ENT (%) 🗆
	-	<u></u>	Lt. gray fine SAND		SS 1	6-5-5-5	10			
_			Lt. brown fine SAND	ĺ	$\begin{pmatrix} SS \\ 2 \end{pmatrix}$	3-2-WOH-WOH				
-	5		Lt. brown LIMESTONE with fine SAND		$\begin{pmatrix} SS \\ 3 \end{pmatrix}$	1-2-8-12	10			
_	· -				$\begin{pmatrix} SS \\ 4 \end{pmatrix}$	12-16-9-5	25			
_	10			4	$\begin{pmatrix} SS \\ 5 \end{pmatrix}$	5-4-5-5	9			
T 9/6/23										
SINT US.GD			Lt. brown and It. gray LIMESTONE with fine SAND		$\left\langle \begin{array}{c} SS \\ 6 \end{array} \right\rangle$	5-3-6-5	9			
RE.GPJ (-								· · · · ·	
HOOK SQUA	20		Lt. gray fine SAND with LIMESTONE		$\left\langle \begin{array}{c} SS \\ 7 \end{array} \right\rangle$	3-3-3-3	6			
PRINGS I										
MIAMI SI	· -		Lt. gray fine SAND, trace limestone fragments		√ ss		-			
RTNERS -	25			4	8	4-4-5-4	9		· · · · · · · · · · · · · · · · · · ·	
MIL & PA	-		Lt. gray fine SAND, trace shells							
	30				$\left\langle \begin{array}{c} SS\\ 9 \end{array} \right\rangle$	3-3-6-6	9			
TEST NUTTING BOREHOLE 2-334.9 BERMELLO AJAMIL & PARTNERS - MIAMI SPRINGS HOOK SQUARE.GPJ GINT US.GDT 9/6/23			Bottom of hole at 30.0 feet.							
TES								•	:	

		LE OF SOIL BORING B-1		S					
Depth (feet)	Description	Unit Weight (lb./cu.ft)		Unit Weight Fri		Angle of Internal Friction (Degrees)		arth Pressu Coefficient	
		Saturated	Submerged		Passive	Active	At Rest		
0'-3'	Medium dense Fine SAND	115	52.6	30	3.0	0.33	0.5		
3'-5'	Very loose Fine Sand	105	42.6	26	2.56	0.39	0.56		
5' – 17'	LIMESTONE with fine SAND	135	72.6	0	1.0	1.0	1.0		
17' – 22'	Loose fine SAND with limestone fragments	115	52.6	28	2.77	0.36	0.53		
22'-30'	Loose fine SAND, trace limestone or shell fragments	115	52.6	29	2.88	0.35	0.52		

Appropriate Factors of Safety should be used in the foundation design.

Note: Groundwater (WT) was encountered at a depth of about 5 feet below existing ground surface at time drilling performed



LIMITATIONS OF LIABLILITY

WARRANTY

We warranty that the services performed by Nutting Engineers of Florida, Inc. are conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession in our area currently practicing under similar conditions at the time our services were performed. **No other warranties, expressed or implied, are made.** While the services of Nutting Engineers of Florida, Inc. are a valuable and integral part of the design and construction teams, we do not warrant, guarantee or insure the quality, completeness, or satisfactory performance of designs, construction plans, specifications we have not prepared, nor the ultimate performance of building site materials or assembly/construction.

SUBSURFACE EXPLORATION

Subsurface exploration is normally accomplished by test borings; test pits are sometimes employed. The method of determining the boring location and the surface elevation at the boring is noted in the report. This information is represented in the soil boring logs and/or a drawing. The location and elevation of the borings should be considered accurate only to the degree inherent with the method used and may be approximate.

The soil boring log includes sampling information, description of the materials recovered, approximate depths of boundaries between soil and rock strata as encountered and immediate depth to water data. The log represents conditions recorded specifically at the location where and when the boring was made. Site conditions may vary through time as will subsurface conditions. The boundaries between different soil strata as encountered are indicated at specific depths: however, these depths are in fact approximate and dependent upon the frequency of sampling, nature and consistency of the respective strata. Substantial variation between soil borings may commonly exist in subsurface conditions. Water level readings are made at the time and under conditions stated on the boring logs. Water levels change with time, precipitation, canal level, local well drawdown and other factors. Water level data provided on soil boring logs shall not be relied upon for groundwater based design or construction considerations.

LABORATORY AND FIELD TESTS

Tests are performed in *general* accordance with specific ASTM Standards unless otherwise indicated. All criteria included in a given ASTM Standard are not always required and performed. Each test boring report indicates the measurements and data developed at each specific test location.



ANALYSIS AND RECOMMENDATIONS

The geotechnical report is prepared primarily to aid in the design of site work and structural foundations. Although the information in the report is expected to be sufficient for these purposes, it shall not be utilized to determine the cost of construction nor to stand alone as a construction specification. Contractors shall verify subsurface conditions as may be appropriate prior to undertaking subsurface work.

Report recommendations are based primarily on data from test borings made at the locations shown on the test boring reports. Soil variations commonly exist between boring locations. Such variations may not become evident until construction. Test pits sometimes provide valuable supplemental information that derived from soil borings. If variations are then noted, the geotechnical engineer shall be contacted in writing immediately so that field conditions can be examined and recommendations revised if necessary.

The geotechnical report states our understanding as to the location, dimensions and structural features proposed for the site. Any significant changes of the site improvements or site conditions must be communicated in writing to the geotechnical engineer immediately so that the geotechnical analysis, conclusions, and recommendations can be reviewed and appropriately adjusted as necessary.

CONSTRUCTION OBSERVATION

Construction observation and testing is an important element of geotechnical services. The geotechnical engineer's field representative (G.E.F.R.) is the "owner's representative" observing the work of the contractor, performing tests and reporting data from such tests and The geotechnical engineer's field observations. representative does not direct the contractor's construction means. methods. operations or personnel. The G.E.F.R. does not interfere with the relationship between the owner and the contractor and, except as an observer, does not become a substitute owner on site. The G.E.F.R. is responsible for his/her safety, but has no responsibility for the safety of other personnel at the site. The G.E.F.R. is an important member of a team whose responsibility is to observe and test the work being done and report to the owner whether that work is being carried out in general conformance with the plans and specifications. The enclosed report may be relied upon solely by the named client.

SOIL AND ROCK CLASSIFICATION CRITERIA

_

SAND/SILT

N-VALUE (bpf)	RELATIVE DENSITY
0 - 4	Very Loose
5 - 10	Loose
11 – 29	Medium
30-49	Dense
>50	Very dense
100	Refusal

N-VALUE (bpf)	UNCONFINED COMP. STRENGTH (tsf)	CONSISTENCY
<2	<0.25	v. Soft
2-4	0.25 - 0.50	Soft
5-8	0.50 - 1.00	Medium
9-15	1.00 - 2.00	Stiff
16-30	2.00 - 4.00	v. Stiff
>30	>4.00	Hard

ROCK

N-VALUE (bpf)	RELATIVE HARDNESS	ROCK CHARACTERISTICS			
N≥100	Hard to v. hard	Local rock formations vary in hardness from soft to very hard within short verti-			
$25 \underline{\le} N \underline{\le} 100$	Medium hard to hard	cal and horizontal distances and often contain vertical solution holes of 3 to 36			
$5 \le N \le 25$	Soft to medium hard	inch diameter to varying depths and horizontal solution features. Rock may be brittle to split spoon impact, but more resistant to excavation.			

PARTICLE SIZE

DESCRIPTION MODIFIERS

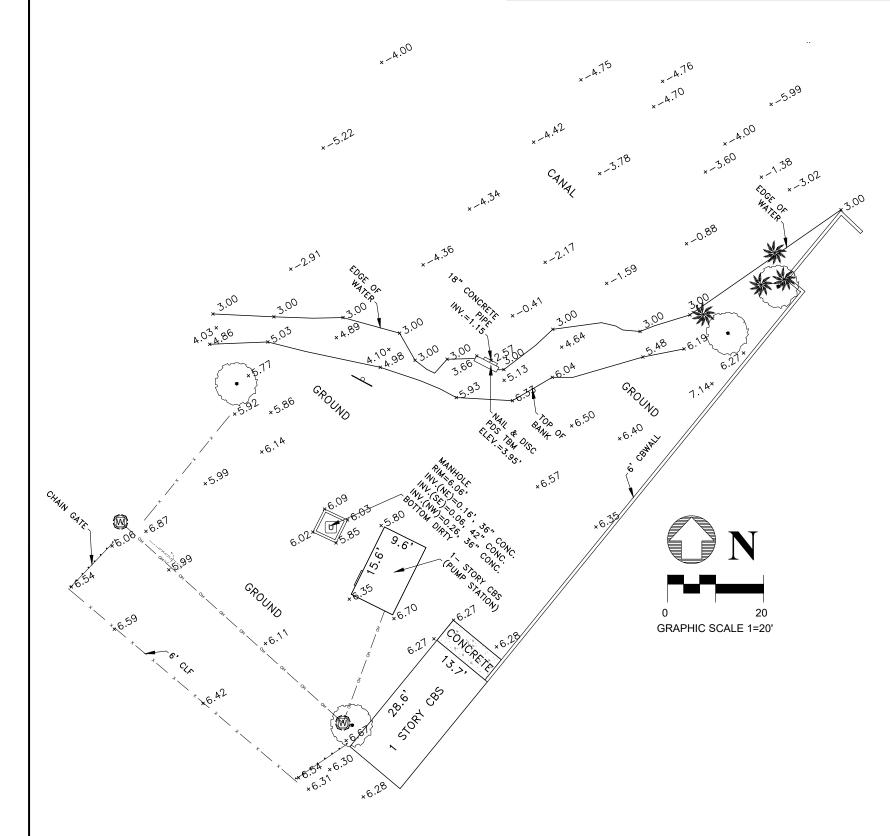
_	Boulder	>12 in.	0 - 5%	Slight trace
	Cobble	3 to 12 in.	6-10%	Trace
	Gravel	4.76 mm to 3 in.	11-20%	Little
	Sand	0.074 mm to 4.76 mm	21 - 35%	Some
	Silt	0.005 mm to 0.074 mm	>35%	And
	Clay	<0.005 mm		

м	ajor Divisio	ns	Group Symbols	Typical names		Laboratory classification criteria
	action is ize)	Clean gravels (Little or no fines)	GW	Well-graded gavels, gravel-sand mixtures, little or no fines	Depend- e), coarse- systems**	$C_{u} = \frac{D_{60}}{D_{10}} \text{ greater than 4; } C_{z} = \frac{(D_{30})^{2}}{D_{10}xD_{60}} between 1 \text{ and}$
sieve size)	Gravels (More than half of coarse fraction is larger than No. 4 sieve size)	Clean (Little or	GP	Poorly graded gravels, gravel-sand mixtures, little or no fines	and and gravel from grain-size curve. Depend- ffraction smaller than No. 200 sieve size), coarse- as follows: GW, GP, SW, SP GW, GC, SM, SC Border <i>li</i> ne cases requiring dual systems**	Not meeting all gradation requirements for GW
No. 200	Gra Gra han half of jer than Na	Gravels with fines (Appreciable amount of fines)	GW* d	Silty gravels, gravel-sand-silt mixtures	ı grain-size No. 200 s ', SP , SC ses requiri	Atterberg limits below "A" line or P.I. less than 4 between 4 and 7 are border-
ained soils larger than	(More t) larç	Gravels (Appre amount	GC	Clayey gravels, gravel-sand-clay mixtures	gravel from grain-size smaller than No. 200 si s: tW, GP, SW, SP SM, GC, SM, SC barderline cases requirin	Atterberg limits above "A" line with P.I. greater than 7
Coorse-grained soils (More than half of material is forger than No. 200 sieve size)	action is size)	Clean sands (Little or no fines)	sw	Well-graded sands, gravelly sands, little or no fines	Determine percentages of sand and gravel from grain-size curve. Depend- ing on percentage of fines (fraction smaller than No. 200 sieve size), coarse- grained soils are classified as follows: Less than five percentGW, GP, SW, SP More than 12 percent	$C_u = \frac{D_{60}}{D_{10}}$ greater than 6; $C_z = \frac{(D_{30})^2}{D_{10}xD_{60}}$ between 1 and
ın half of n	(More than half of material (More than half of material smaller than No. 4 sieve size) smaller than No. 4 sieve size) Sonds with fines		SP	Poorly graded sands, gravelly sands, little or no fines	percentages of s centage of fines ils are classified in five percent nan 12 percent	Not meeting all gradation requirements for SW
(More tho	Sa han half of Iler than N	Sands with fines (Appreciable amount of fines)	SM* d	Silty sands, sand-silt mixtures	mine percent percentage ad soils are c is than five p ore than 12 p or 12 percent	Atterberg limits below "A" line or P.I. less than 4 with P.I. between 4 and 7 are
	(More † sma	Sands v (Appre amount	sc	Clayey sands, sand-clay mixtures	Determine ing on perc grained so Less tha More th 5 to 12	Atterberg limits above "A" line with P.I. more than 7 borderline cases requiring use of dual system.
ize)		s an 50)		Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity	60	
Fine-grained soils (More than half of material is <i>smaller</i> than No. 200 sieve size)	Silts and clays (Liquid limit less than 50)		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy, clays, silty clays, lean clays	50	СН
soils er than No.	ν ν			Organic silts and organic silty clays of low plasticity	40 30 30	
Fine-grained soils iterial is smaller th	s			s than 50)		Inorganic silts, micaceous or diatoma- ceous fine sandy or silty soils, elastic silts
Fir Fir	Silts and clays	(Liquid limit greater than 50)	СН	Inorganic clays or high plasticity, fat clays	10	
re than hc			он	Organic clays of medium to high plasticity, organic silts	0	Image: CL-ML ML and OL ML and OL
(Wo	Highly	organic soils	PT	Peat and other highly organic soils		Plasticity Chart



ATTACHMENT "D"

SPECIFIC PURPOSE SURVEY





PROPERTY ADDRESS 25 S HOOK SQ, CITY OF MIAMI SPRINGS, FLORIDA 33166

PREPARED FOR: CITY OF MIAMI SPRINGS, FLORIDA

SURVEYOR'S NOTES:

1. NO UNDERGROUND PORTIONS OF FOOTINGS, FOUNDATIONS. CONTACT APPROPRIATE AUTHORITY PRIOR TO ANY DESIGN WORK OR CONSTRUCTION. 2. THIS IS NOT A BOUNDARY SURVEY. EXAMINATION OF ABSTRACT OF TITLE MUST BE MADE TO DETERMINE RECORDED INSTRUMENTS, IF ANY, AFFECTING PROPERTY BESIDES THOSE NOTED. 3. NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. 4. TYPE OF SURVEY: SPECIFIC PURPOSE. 7. ELEVATIONS ARE REFERRED TO THE NATIONAL GEODETIC VERTICAL DATUM 1929. USED BENCHMARK: M-75-1. ELEVATION: 7.61 (NORTH GEODETIC VERTICAL DATUM 1929)

8. FIELD WORK DATE: 01.20.2023

SYMBOLS & ABBREVIATIONS

CBS = CONCRETE BLOCK STRUCTURE; CBWALL= CONCRETE BLOCK WALL; CL = CENTER LINE; CLF = CHAIN LINK FENCE; EOP = EDGE OF PAVEMENT; FND= FOUND; FFE = FINISH FLOOR ELEVATION; I.D.= IDENTIFICATION; INV.= INVERT ELEVATION; IP = IRON PIPE; MDCR = MIAMI DADE COUNTY RECORDS; NAC = NON ACCESSIBLE CORNER; PB = PLAT BOOK; PG = PAGE; RB = REBAR; RDS= PREMIER DESIGN SOLUTIONS; UE = UTILITY EASEMENT;

REMIER

1606 CIT

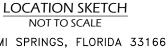
	REVISIONS						
RE DESIGN SOLUTIONS INC. Y HALL PROMENADE • STE 200	DATE	REMARKS	BY				
• MIRAMAR FL, 33025							
954.237.7850 PDS@PDS-ENG.COM							
LORIDA COA No. 27940 LB 8017							
EB 0011							

CITY OF MIAMI SPRINGS 201 WESTWARD DR MIAMI SPRINGS, FL 33166



SPECIFIC PURPOSE SURVEY

25 S HOOK SQ MIAMI SPRINGS, FL 33166



NOTE: SYMBOLS SHOWN ARE NOT TO SCALE AND SHALL NOT BE USED TO SIZE SUCH ELEMENTS.

FERNANDO FERNANDEZ PROFESSIONAL SURVEYOR AND MAPPER LICENSE LS-6765 STATE OF FLORIDA ffernandez@pds-eng.com
DATE: 02.14.2023

ATTACHMENT "E"

ATM Engineering

TESTING LABORATORIES-ENGINEERING-INSPECTION SERVICES -DRILLING ENVIRONMENTAL SERVICES.

AUBREY ENGINEERING, LLC d/b/a ATM Engineering

1950 West 84th Street, Hialeah, Florida 33014/Phone: 305-646-1888/Fax: 305-646-1887

11 March 2024

JOSE L. LOPEZ, PE, PMP, ENV SP Director of Environmental Engineering Bermello Ajamil & Partners 4711 S Le Jeune Rd Coral Gables, FL 33146

RE: Miami Springs pump station Concrete Testing

Dear Jose,

As directed, ATM Engineering tested the concrete of the pump station located at

25 S Hook Square, Miami Gardens

We took two (2) samples from locations as you directed, and one (1) sample from the outfall itself. The third sample was collected because it appeared to be a different concrete than the first two locations. Sample locations are shown in the drawing attached to this report, as well as pictures of the locations during sample collection.

Samples were placed in individual sealed containers to avoid any cross-contamination.

We tested the concrete samples for the presence of Asbestos materials as requested.

ALL SAMPLES CONTAINED 100% NONFIBROUS MATERIALS, indicating that the presence of Asbestos materials is NEGATIVE.

Regards,

Robert Shank, PE #93856

Encl: Sample location Photos Site Map

1 | Page

ATM Engineering TESTING LABORATORIES-ENGINEERING-INSPECTION SERVICES - DRILLING ENVIRONMENTAL SERVICES.

AUBREY ENGINEERING, LLC d/b/a ATM Engineering

1950 West 84th Street, Hialeah, Florida 33014/Phone: 305-646-1888/Fax: 305-646-1887

PHOTOS SAMPLE LOCATION 1 – REINFORCED CONCRETE PIPE



ATM Engineering TESTING LABORATORIES-ENGINEERING-INSPECTION SERVICES - DRILLING ENVIRONMENTAL SERVICES.

AUBREY ENGINEERING, LLC d/b/a ATM Engineering

1950 West 84th Street, Hialeah, Florida 33014/Phone: 305-646-1888/Fax: 305-646-1887

SAMPLE LOCATION 2 – CORNER OF MANHOLE/JUNCTION BOX



ATM Engineering TESTING LABORATORIES-ENGINEERING-INSPECTION SERVICES - DRILLING ENVIRONMENTAL SERVICES.

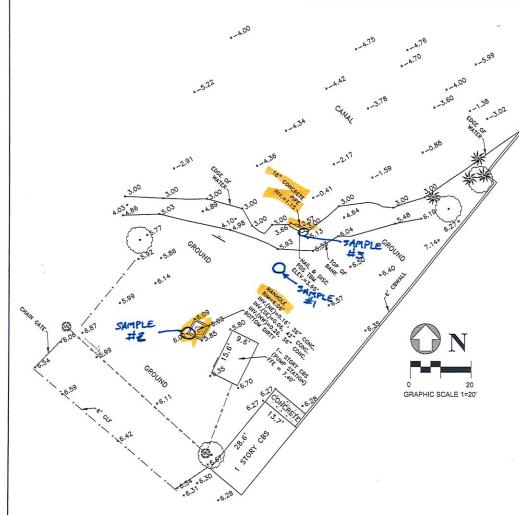
AUBREY ENGINEERING, LLC d/b/a ATM Engineering

1950 West 84th Street, Hialeah, Florida 33014/Phone: 305-646-1888/Fax: 305-646-1887

SAMPLE LOCATION 3 - TOP EDGE OF OUTFALL



SPECIFIC PURPOSE SURVEY





LOCATION SKETCH NOT TO SCALE

PROPERTY ADDRESS NOT TO SCALE 25 S HOOK SQ, CITY OF MIAMI SPRINGS, FLORIDA 33166

PREPARED FOR: CITY OF MIAMI SPRINGS, FLORIDA

SURVEYOR'S NOTES: 1. NO UNDERGROUND PORTIONS OF FOOTINGS, FOUNDATIONS. CONTACT APPROPRIATE AUTHORITY PRIOR TO ANY DESIGN WORK OR CONSTRUCTION. 2. THIS IS NOT A BOUNDARY SURVEY. EXAMINATION OF ABSTRACT OF TITLE MUST BE MADE TO DETERMINE RECORDED INSTRUMENTS, IF ANY, AFFECTING PROPERTY DESIDES THOSE NOTED. 3. NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED DETERMINE VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED

3. NOT VALID WITHOUT THE SIGNATURE AND URIGINAL RAISED SEAL OF A LEGINGE EXECUTE SURVEYOR AND MAPPER. 4. TYPE OF SURVEY: SPECIFIC PURPOSE. 7. ELEVATIONS ARE REFERRED TO THE NATIONAL GEODETIC VERTICAL DATUM 1929. USED BENCHMARK: M-75-1. ELEVATION: 7.61 (NORTH GEODETIC VERTICAL DATUM 1929) 8. FIELD WORK DATE: 01.20.2023

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NOTE: SYMBOLS SHOWN ARE NOT TO SCALE AND SHALL NOT BE USED TO SIZE SUCH ELEMENTS.

	PREMIERE DESIGN SOLUTIONS INC. 11606 CITY HALL PROMENADE - STE 200 - MIRAMAR FL, 33025 954.237.7850	DATE	REVISIONS REMARKS	BY	CITY OF MIAMI SPRINGS 201 WESTWARD DR	63	SPECIFIC PURPOSE SURVEY	FERNANDO FERNANDEZ PROFESSIONAL SURVEYOR AND MAPPER LICENSE LS-6765 STATE OF FLORIDA
PDS	PDS@PDS-ENG.COM				MIAMI SPRINGS, FL 33166	MIAMI Springs	25 S HOOK SQ MIAMI SPRINGS, FL 33166	ffernandez@pds-eng.com DATE: 02.14.2023

ATTACHMENT "F"

CITY OF MIAMI SPRINGS

Construction of The Hook Square Pump House Replacement Project City of Miami Springs Project No.: ITB No.: 04-23/24 Engineering Company: Bermello Ajamil and Partners

Contractor Name:

Contractor Address:



Date of submission:					
Pay Item Number	Description of Work			Bidder's Unit	
		Quantity	Unit	Cost	Total Cost
DIV .2	Demolition / Removal of Miscellaneous Items and Connections, Additional Minor Repair				
	and Preparation, removal of existing generator, mechanical and structural				
		1	LS		
02 81 20	Removal of Hazardous Waste, Remediation	1	LS		
DIV .3	CONCRETE, new concrete slab, roof and concrete beam	1	LS		
DIV .4	MASONRY- Stucco and paint	1	LS		
DIV .5	METALS- Structural framing	1	LS		
DIV .6	WOODS AND PLASTICS- Fiberglass grating	1	LS		
DIV .7	THERMAL AND MOISTURE PROTECTION- Roofing specialties, fireproofing and roof hatch,				
	joint sealants, caulking and waterproofing	1	LS		
DIV .8	OPENINGS- Steel doors and frames, Door Hardware, Weatherstripping, Thresholds and				
	Seals	1	LS		
DIV .22	PLUMBING	1	LS		
22.11.1	Installation/Replacement to Existing Fiarbanks Pump PM7068. Installation of New				
	National Pump Model #20-LL20P Propeller	1	LS		

CITY OF MIAMI SPRINGS

Construction of The Hook Square Pump House Replacement Project City of Miami Springs Project No.: ITB No.: 04-23/24 Engineering Company: Bermello Ajamil and Partners

Contractor Name:

Contractor Address:



Pay Item Number	Description of Work	Quantity	Unit	Bidder's Unit Cost	Total Cost
DIV .26	ELECTRICAL- Lighting control devices, low voltage distribution equipment and wiring	Quantity	Onit	COST	10101 C031
DIV .20	devices, interior lightning, conduct & wire, raceways	1	LS		
DIV .31	EARTHWORK- Site clearing, earth moving, excavation, fill, erosion and sediment controls,	±			
	riprap	1	LS		
DIV .33	UTILITIES- Storm drainage, utility precast box, drainage grate	1	LS		
	Miscellaneous Connections & Adjustments (Bends, Valves, Plugs, etc)	1	LS		
	PUMP CHARGES - PUMP HAS BEEN PURCHASED BY THE CITY				
	OPTIONAL EQUIPMENT				
	Emergency generator- Portable				
	Bid bond		5%		
	Performance Bond		%		
	Payment Bond		%		
	TOTAL BID AMOUNT- LUMP SUM				
	Additional lines, as needed				

ATTACHMENT "G"

AMENDMENT NO. 1 TO AGREEMENT NO. LPA0336 BETWEEN FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND CITY OF MIAMI SPRINGS

This Amendment to Agreement No. LPA0336 (Agreement) is made by and between the Department of Environmental Protection (Department), an agency of the State of Florida, and City of Miami Springs (Grantee), on the date last signed below.

WHEREAS, the Department entered into the Agreement with the Grantee for Miami Springs Hook Square Pump House Replacement (Project), effective July 1, 2022; and,

WHEREAS, the Grantee has requested an extension of the Agreement due to supply chain issues delaying project implementation; and,

WHEREAS, other changes to the Agreement are necessary.

NOW THEREFORE, the parties agree as follows:

- 1. Section 3. of the Standard Grant Agreement is hereby revised to change the Date of Expiration to April 30, 2025. The Department and the Grantee shall continue to perform their respective duties during this extension period pursuant to the same terms and conditions provided in the Agreement.
- 2. Section 4. of Attachment 2 is hereby revised to the following:

Reimbursement for costs or availability for costs to meet matching requirements shall be limited to the following budget categories, as defined in the Reference Guide for State Expenditures, as indicated:

Reimbursement	Match	Category
		Salaries/Wages
		Overhead/Indirect/General and Administrative Costs:
		a. Fringe Benefits, for actual costs not to exceed the budget amount identified in Attachment 3.
		b. Indirect Costs, for actual costs not to exceed the budget amount identified in Attachment 3.
\boxtimes		Contractual (Subcontractors)
		Travel, in accordance with Section 112, F.S.
		Equipment
		Rental/Lease of Equipment
\boxtimes		Miscellaneous/Other Expenses
		Land Acquisition

3. Attachment 3, Grant Work Plan, is hereby deleted in its entirety and replaced with Attachment 3-1, Revised Grant Work Plan, as attached to this Amendment and hereby incorporated into the Agreement. All references in the Agreement to Attachment 3 shall hereinafter refer to Attachment 3-1, Revised Grant Work Plan. 4. All other terms and conditions of the Agreement remain in effect. If and to the extent that any inconsistency may appear between the Agreement and this Amendment, the provisions of this Amendment shall control.

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ATTACHMENT 3-1 REVISED GRANT WORK PLAN

PROJECT TITLE: Hook Square Pump House Replacement

PROJECT LOCATION: The Project will be located in the City of Miami Springs within Miami-Dade County; Lat/Long (25.8202, -80.2808). See Figure 1 for location map.

PROJECT BACKGROUND: The City of Miami Springs (Grantee) has determined that the Hook Square pump station has deteriorated to the point that it is no longer meeting the needs of the community. The pump station and related appurtenances needs to be replaced to protect water quality, minimize flood risks, provide bank stabilization, and protect local manatee populations. The Grantee will purchase the following equipment that will be permanently installed by the subcontractor: National Pump Model Propeller Pump for 10,000 GPM.

PROJECT DESCRIPTION: The Grantee will replace a 35 HP pump station along the C-6 canal. The replacement includes the installation of new 50 HP axial flow pump, portable generator, electric controls, refurbishing of bar screens as needed, pump discharge and bypass piping, as well as restoration of existing buildings and headwalls including an outflow with flap-gate and rip rap bank stabilization.

TASKS: All documentation should be submitted electronically unless otherwise indicated.

Task 1: Preconstruction Activities

Deliverables: The Grantee will complete a topographical and bathymetric survey, geotechnical report and existing conditions report to produce a pre-design report. The Grantee will complete the design and calculations for the replacement of the existing pump, structural, mechanical and electrical plans, and bank stabilization and obtain all necessary permits for construction of the project.

Documentation: The Grantee will submit: 1) a signed acceptance of the completed work to date, as provided in the Grantee's Certification of Payment Request; and 2) a summary of design (or preconstruction) activities to date, indicating the percentage of design completion for the time period covered in the payment request. For the final documentation, the Grantee will also submit a copy of the design completed with the funding provided for this task and a list of all required permits identifying issue dates and issuing authorities.

Performance Standard: The Department's Grant Manager will review the documentation to verify that the deliverables have been completed as described above. Upon review and written acceptance by the Department's Grant Manager, the Grantee may proceed with payment request submittal.

Payment Request Schedule: The Grantee may submit a payment request for cost reimbursement no more frequently than monthly.

Task 2: Bidding and Contractor Selection

Deliverables: The Grantee will prepare a bid package, publish a public notice, solicit bids, conduct pre-bid meetings, and respond to bid questions in accordance with the Grantee's procurement process, to select one or more qualified and licensed contractors to complete construction of the pump station and outflow improvements.

Documentation: The Grantee will submit: 1) the public notice of advertisement for the bid; 2) the bid package; and 3) a written notice of selected contractor(s).

Performance Standard: The Department's Grant Manager will review the documentation to verify that the deliverables have been completed as described above. Upon review and written acceptance by the Department's Grant Manager, the Grantee may proceed with payment request submittal.

Payment Request Schedule: The Grantee may submit a payment request for cost reimbursement following the conclusion of the task.

Task 3: Project Management

Deliverables: The Grantee will perform project management, to include field engineering services, construction observation, site meetings with construction contractor(s) and design professionals, and overall project coordination and supervision.

Documentation: The Grantee will submit interim progress status summaries including summary of inspection(s), meeting minutes and field notes, as applicable.

Performance Standard: The Department's Grant Manager will review the documentation to verify that the deliverables have been completed as described above. Upon review and written acceptance by the Department's Grant Manager, the Grantee may proceed with payment request submittal.

Payment Request Schedule: The Grantee may submit a payment request for cost reimbursement no more frequently than monthly.

Task 4: Construction

Deliverables: The Grantee will construct improvements to the pump house and related appurtenances in accordance with the construction contract documents.

Documentation: The Grantee will submit 1) a copy of the final design; 2) a signed acceptance of the completed work to date, as provided in the Grantee's Certification of Payment Request; and 3) a signed Engineer's Certification of Payment Request.

Performance Standard: The Department's Grant Manager will review the documentation to verify that the deliverables have been completed as described above. Upon review and written acceptance by the Department's Grant Manager, the Grantee may proceed with payment request submittal.

Payment Request Schedule: The Grantee may submit a payment request for cost reimbursement no more frequently than monthly.

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PROJECT TIMELINE & BUDGET DETAIL:

Task No.	Task Title	Budget Category	Grant Amount	Task Start Date	Task End Date
1	Preconstruction Activities	Contractual Services	\$200,000	07/01/2022	10/31/2023
2	Bidding and Contractor Selection	Contractual Services	\$30,000	07/01/2022	10/31/2023
3	Project Management	Contractual Services	\$20,000	07/01/2022	10/31/2024
		Contractual Services	\$370,000		
4 Construction		Miscellaneous/ Other Expenses	\$65,000	07/01/2022	10/31/2024
		Total:	\$750,000		

The tasks must be completed by, and all documentation received by, the corresponding task end date. Cost reimbursable grant funding must not exceed the budget amounts as indicated below.

Note that, per Section 8.h. of Attachment 1 in the Agreement, authorization for continuation and completion of work and any associated payments may be rescinded, with proper notice, at the discretion of the Department if the Legislature reduces or eliminates appropriations. Extending the contract end date carries the risk that funds for this project may become unavailable in the future. This should be a consideration for the Grantee with this and future requests for extension.

Figure 1: Location map

