MLS-TIDEVUE ELECTRICAL REHABILITATION MANATEE COUNTY, PROJECT NO. 6022387 PROJ. NO. 01024-0189 SEPTEMBER 16, 2022 **ISSUED FOR BID**



RAL	
)	COVER SHEET
I	HYATT SURVEY MLS TID
RICAL	
	SYMBOLS, ABBREVIATIO
	SYMBOLS ELECTRICAL 1
	SYMBOLS ELECTRICAL 2
	ELECTRICAL SITE PLAN
	DEMOLITION PLAN
	SINGLE LINE DIAGRAM
	PUMP BUILDING POWE
	ELECTRICAL BUILDING
	ELECTRICAL BUILDING I
	GROUNDING AND LIGH
	MCB, ATS AND MCC ELE
	ELECTRICAL BULIDING I
	DRY WELL LIGHTING PL
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	PANELBOARD SCHEDUL
	ELECTRICAL CONTROLS
	ELECTRICAL DETAILS 1 (
	FLECTRICAL DETAILS 2 (

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C1.02	SITE PLAN
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MECHANICAL	
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11.01	CONTROL PANEL



Call before you dig.

SHEET INDEX

SITE BENCH MARKS					
BM #	NORTHING	EASTING	ELEVATION	DESCRIPTION	
1	1160393.270	486413.594	11.93	TP NDS	
2	1160579.840	486504.109	11.06	TP NL	
4	1160356.657	486390.950	11.73	TP SIRC LB7203	
5	1160370.190	486304.337	11.47	TP SIRC LB7203	



- 1988 ELEVATION 14.60'
- COUNTY CLERK WEBSITE.
- SERVICES, INC.



GENERAL NOTES

1. THE FOLLOWING NGS VERTICAL CONTROL MONUMENT WAS RECOVERED AND UTILIZED FOR THE ELEVATIONS INDICATED HEREON: "COLLIER" NAVD

2. THIS SURVEY IS REFERENCED TO A PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983/2007 ADJUSTMENT).

3. TITLE WORK WAS NOT PROVIDED FOR THIS SURVEY. PARCEL LINES SHOWN HEREIN ARE BASED ON FOUND BOUNDARY MONUMENTATION TOGETHER WITH PUBLIC INFORMATION AVAILABLE ON THE MANATEE

4. THIS SURVEY IS SUBJECT TO PERTINENT EASEMENTS, RIGHTS-OF-WAY AND RESTRICTIONS OF RECORD, IF ANY.

5. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN HYATT SURVEY SERVICES, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING AND/OR USING THIS DRAWING, IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM HYATT SURVEY SERVICES, INC. IS STRICTLY PROHIBITED AND RENDERS THE SURVEYOR'S CERTIFICATION, SIGNATURE AND SEAL NULL AND VOID. ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO HYATT SURVEY

LEGEND

R/W RIGHT-OF WAY		(GUY WIRE
PID PARCEL IDENTIFICATION			WATER METER
PB P	LAT BOOK	S	SANITARY MANHOLE
OR C	OFFICIAL RECORD	\bigcirc	STORM MANHOLE
PG P	AGE		MAILBOX
BM E	BENCHMARK	¢	LIGHT POLE
FFE FINISHED FLOOR ELEVATION			FIRE HYDRANT
EL E	LEVATION	-0-	BACKFLOW PREVENTER
0	IRON PIPE	0	BOLLARD
•	IRON ROD W/ CAP	U	UTILITY BOX
0	PK NAIL W/ DISC	Ô	ANTENNA
	CONCRETE MONUMENT	\bowtie	VALVE
	SITE BENCHMARK	\bigcirc	CLEANOUT
	SIGN		GRATE INLET
\diamond	UTILITY POLE	K	PALM TREE

Hyatt Survey Services, Inc.

Geographic Data Specialists LB No.: 7203 2012 LENA ROAD, BRADENTON, FLORIDA 34211 PH. (941) 748-4693

FLORIDA Anatee				
THIS SURVEY IS NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND RAISED SEAL OR DIGITAL SIGNATURE OF A FLORIDA LICENSED SURVEYOR AND MAPPER.	RUSSELL P. HYATT, PSM FLORIDA SURVEYORS REGISTRATION NO. 5303			
BY DATE				
REVISION DESCRIPTION				
Öz				
PROJEC [®] SURVEY	# 15-1919-6A # TIDEVIEW			
SECTION	17 34–18			
SURVEYE	$1^{"} = 30'$ $0 \text{HYATT} \frac{4}{2021}$			
DRAWN	DR 4/2021 RH 4/2021			
SHF	ET 1 OF 1			



REVISIONS

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FLORIDA

REMOVAL LEGEND

REMOVE CONCRETE

REMOVE ASPHALT

///// PIPE REMOVAL

SURVEYOR'S NOTES

WEBSITE.

1. SURVEY COMPLETED BY HYATT SURVEY SERVICES, INC. LOCATED AT 2012 LENA ROAD, BRADENTON FLORIDA 34211. FIELD WORK COMPLETED APRIL 2021.

2. THE FOLLOWING NGS VERTICAL CONTROL MONUMENT WAS RECOVERED AND UTILIZED FOR THE ELEVATIONS INDICATED HEREON: "COLLIER" NAVD 1988 ELEVATION 14.60'

3. THIS SURVEY IS REFERENCED TO A PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983/2007 ADJUSTMENT).

4. TITLE WORK WAS NOT PROVIDED. PARCEL LINES SHOWN HEREIN ARE BASED ON FOUND BOUNDARY MONUMENTATION TOGETHER WITH PUBLIC INFORMATION AVAILABLE ON THE MANATEE COUNTY CLERK

SITE BENCH MARKS					
NORTHING	EASTING	ELEVATION	DESCRIPTION		
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LEGEND

- R/W RIGHT-OF WAY PID PARCEL IDENTIFICATION PB PLAT BOOK OR OFFICIAL RECORD PG PAGE BM BENCHMARK FFE FINISHED FLOOR ELEVATION 🍄 FIRE HYDRANT EL ELEVATION o IRON PIPE CONCRETE MONUMENT O CLEANOUT SITE BENCHMARK _____ SIGN
 - ← GUY WIRE
 - WATER METER
 - SANITARY MANHOLE
 - STORM MANHOLE
 - MAILBOX
 - LIGHT POLE

 - -O- BACKFLOW PREVENTER
 - O BOLLARD
 - UTILITY BOX
 - ANTENNA
 - 🖂 VALVE

 - GRATE INLET

GENERAL NOTES EROSION AND SEDIMENT CONTROL

CLEARING AND GRUBBING

- 1. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION (PRIOR TO CONSTRUCTION) AND MAINTENANCE/REPAIRS OF (DURING CONSTRUCTION) EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED TO RETAIN ALL SEDIMENT AND EROSION ON THE SITE OF DEVELOPMENT. THE PROVISIONS SHOWN HEREIN REPRESENT THE MINIMUM EROSION CONTROL MEASURES TO
- 2. NO DEVIATIONS FROM THE PROJECT PLANS OR SPECIFICATIONS ARE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD AND THE
- 3. AT THE TIME OF SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT PERMANENT COVER MUST BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR PERMANENT COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL BE EMPLOYED (I.E. EROSION CONTROL FABRIC, RIP-RAP, ETC.).
- 4. THE CONTRACTOR MUST MAKE REGULAR INSPECTIONS OF ALL CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PROCESS TO ENSURE THE OVERALL EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL PLAN. AT A MINIMUM, INSPECTIONS WILL OCCUR AT LEAST ONCE A WEEK AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A STORM EVENT THAT IS ONE-HALF (0.50) INCH OR GREATER. ALL INSPECTIONS WILL BE DOCUMENTED IN ACCORDANCE WITH FDEP NPDES REQUIREMENTS.
- 5. IN THE EVENT THAT AN ON-SITE INSPECTION BY ANY PARTY REVEALS A DEFICIENCY IN THE INSTALLATION AND/OR MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE IMMEDIATE REMEDIATION OF THE PROBLEM AT NO ADDITIONAL COST TO THE OWNER.
- 6. FAILURE TO COMPLY WITH THE REQUIRED EROSION AND SEDIMENT CONTROL GUIDELINES MAY RESULT IN FINES LEVIED BY GOVERNMENTAL AGENCIES. ANY FINES SUFFERED DUE TO NON-COMPLIANCE WILL BECOME THE RESPONSIBILITY OF THE
- SEQUENCE OF EROSION AND SEDIMENT CONTROL MEASURES IMPLEMENTATION SITE PREPARATION
- PRIOR TO ANY SOIL DISTURBANCE, SILT FENCE MUST BE INSTALLED ALONG ENTIRE DOWN-GRADE PERIMETER OF PLANNED DISTURBANCE AS SHOWN IN PLANS AND DETAILS, OR BY EQUIVALENT MEASURES. SILT FENCE MUST BE MAINTAINED IN PLACE UNTIL ALL UP-GRADE AREAS OF DISTURBANCE HAVE BEEN PERMANENTLY STABILIZED.
- 2. A PROPER CONSTRUCTION ENTRANCE MUST BE ESTABLISHED AT ALL POINTS OF INGRESS/EGRESS FROM CONSTRUCTION SITE PER DETAIL PROVIDED IN THE PLANS, OR BY EQUIVALENT MEASURES. ALL CONSTRUCTION ENTRANCES MUST REMAIN IN PLACE UNTIL INGRESS/EGRESS FROM THE SITE AT THAT POINT HAS STOPPED.

MORE THAN FOURTEEN (14) DAYS, AND ARE NOT SUBJECT TO CONSTRUCTION TRAFFIC, MUST RECEIVE A TEMPORARY SEEDING IMMEDIATELY UPON DISTURBANCE. IF THE SEASON PREVENTS ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREA WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER AC RE.

1. ALL DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR

- 2. ALL DISTURBED AREAS THAT ARE SUBJECT TO HIGH AMOUNTS OF EROSION (I.E. STEEP SLOPES, EMBANKMENTS GREATER THAN 3:1, OR OTHER AS DICTATED BY SITE CONDITIONS) MUST IMMEDIATELY RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH MULCHING WITH STRAW, OR EQUIVALENT MATERIAL, AT A THICKNESS OF TWO (2) TO FOUR (4) INCHES MIXED WITH THE TOP TWO (2) INCHES OF SOIL.
- 3. ALL DISTURBED AREAS MUST, AS A MINIMUM, BE MAINTAINED BY WATER TO MINIMIZE THE GENERATION OF DUST. SITE GRADING
- 1. THE SITE MUST. AT ALL TIMES, BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS CONTROLLED BY EROSION AND SEDIMENT CONTROL MEASURES.
- 2. ALL AREAS USED FOR MATERIAL STOCKPILE, BE IT FILL/EXCAVATED MATERIALS, STONE, OR OTHERWISE, MUST STABILIZED, AND MUST HAVE SILT FENCE INSTALLED PER THE DETAILS PROVIDED IN THE PLANS, OR BY EQUIVALENT MEASURES, AROUND THEIR ENTIRE DOWNGRADE PERIMETER.

INSTALLATION OF STORM SEWER AND UTILITIES

- 1. TEMPORARY OUTLET PROTECTION MUST INSTALLED AT ALL PROPOSED STORM WATER OUTFALLS PRIOR TO THE INSTALLATION OF THE DRAINAGE SYSTEM.
- 2. ALL SITE DRAINAGE, INCLUDING ROOF DRAINS, DOWN SPOUTS, GUTTERS, OR OTHERWISE MUST BE ROUTED TO CARRY ALL STORM WATER TO THE PROPOSED STORM WATER MANAGEMENT SYSTEM(S).
- 3. ANY SLOPES GREATER THAN 3:1 (H:V) RECEIVING PIPELINE OR UTILITY INSTALLATION MUST BE BACKFILLED AND STABILIZED DAILY AS THE INSTALLATION PROCEEDS.
- FINAL SITEWORK
- 1. PERMANENT SOD MUST BE INSTALLED ON ALL EXPOSED AREAS WITHIN THREE (3) DAYS AFTER FINAL GRADING.
- 2. UPON COMPLETION OF CONSTRUCTION, BUT PRIOR TO FINAL ACCEPTANCE, ALL CONSTRUCTION WASTE AND DEBRIS MUST BE REMOVED FROM THE SITE AND ALL PAVED ROADWAYS AND/OR PARKING AREAS WILL BE SWEPT CLEAN OF ALL SEDIMENT.
- 3. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MUST REMAIN IN PLACE AND BE MAINTAINED UNTIL SUCH TIME WHEN ALL UP-GRADE AREAS HAVE BEEN PERMANENTLY STABILIZED, AT WHICH POINT THEY MUST BE REMOVED.

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MCE PROJ. # 0' DRAWN DESIGNED	1024-0189 TLW SS	HORIZONTAL: 1"=10'	

CIVIL **EXISTING CONDITIONS AND SITE DEMOLITION PLAN**

IRON ROD W/ CAP PK NAIL W/ DISC

- Ø UTILITY POLE

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	REVISIONS		No. 88356

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MLS-TIDEVUE ELECTRICAL REHABILITATION

CIVIL STANDARD DETAILS

		\sim	
PROJ. START DATE	: 2021.MAR	SCALE	
MCE PROJ. #	01024-0189		C1 02
DRAWN	TLW	HORIZONTAL:	
DESIGNED	SS	1"=10'	DRAWING NUMBER
CHECKED	MAC	VERTICAL:	
PROJ. MGR.	AAH	JLJ	REVISION
STATUS:		ISSUED	FOR BID

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^{\\}MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\CIVIL\M1_01 FLOW METER MODIFICATIONS.DWG 09/15/2022 17:28:27 SUVATH SENG

1	GENERAL NOTES	3	FOUNDATIONS CTD.
1.1 AL PROF	L WORK IS TO BE PERFORMED IN A GOOD, WORKMANLIKE AND ESSIONAL MANNER.	3.9 ANCH ANCHOR	IOR BOLTS SHALL BE SET BY MEANS OF TEMPLATE. "FLOATING" BOLTS INTO PLACE IS PROHIBITED.
1.2 AL REQU EDITIC STRIN 1.3 TH CONS	L CONSTRUCTION SHALL BE IN STRICT COMPLIANCE W/ THE IREMENTS OF THE FLORIDA STATE BUILDING CODE (FBC), 2020 DN, OR LOCAL BUILDING CODE REQUIREMENTS IF MORE IGENT. IESE DRAWINGS DO NOT SHOW PROVISIONS FOR SAFETY DURING TRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL	3.10 CON EXISTINO "KNOWN CONTRA ENCOUN EXCAVA" AND INS	ITRACTOR IS TO VERIFY THE ELEVATION AND LOCATION OF ALL G AND PROPOSED UTILITIES PRIOR TO CONSTRUCTION. ANY " UTILITY LINES DAMAGED WILL BE REPLACED AT THE CTOR'S EXPENSE. IF ANY "UNKNOWN" UTILITY LINES ARE TERED WHEN EXCAVATING THE CONTRACTOR IS TO CEASE ALL FION ACTIVITY UNTIL THE ENGINEER AND OWNER ARE NOTIFIED TRUCTIONS ARE PROVIDED ABOUT HOW TO PROCEED.
	RACTOR TO PROVIDE THE REQUIRED BRACING, SHORING, AND TY DEVICES THROUGHOUT THE CONSTRUCTION OF THIS PROJECT	3.11 THE BEFORE UNDERG UNDERG	CONTRACTOR SHALL OBTAIN THE OWNER'S PERMISSION ENCASING OR BACK FILLING AROUND ANY EXISTING ROUND STRUCTURE, PIPING, ELECTRICAL, OR OTHER ROUND WORK.
2			
2.1 ST COOF INCLU DOCU	RUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH & RDINATED W/ CIVIL, ELECTRICAL AND MECHANICAL DRAWINGS, IDING VENDOR SUBMITTAL DRAWINGS AND OTHER CONTRACT IMENTS.	4.1 BARS	SHALL BE ROLLED FROM NEW BILLET-STEEL OF DOMESTIC
2.2 CO OPEN ELEC SUBM	DORDINATE THE EXACT SIZE AND LOCATION OF ALL SLEEVES AND INGS THROUGH WALLS OR CONCRETE SLABS w/ CIVIL, TRICAL AND MECHANICAL DRAWINGS, INCLUDING VENDOR ITTAL DRAWINGS AND OTHER CONTRACT DOCUMENTS.	MANUFA DEFORM REINFOR REQUIRE	CTURE CONFORMING TO "STANDARD SPECIFICATION FOR ED AND PLAIN BILLET STEEL BARS FOR CONCRETE CEMENT," ASTM A615, GRADE 60 AND SUPPLEMENTARY MENT S-1.
2.3 AN SHOW OF TH	IY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE /N ON THESE DRAWINGS ARE TO BE BROUGHT TO THE ATTENTION IE STRUCTURAL ENGINEER BEFORE WORK PROCEEDS, INCLUDING	4.2 DETA THE AME PUBLICA	IL AND FABRICATE REINFORCING STEEL IN ACCORDANCE WITH RICAN CONCRETE INSTITUTE "ACI DETAILING MANUAL," LATEST TION.
ORDE 2.4 IN PROV	RING AND FABRICATING MATERIALS. DEPENDENT TESTING / REVIEW OF MATERIALS SHALL BE	4.3 REIN OWNER'S CONCRE	FORCING STEEL IN PLACE SHALL BE REVIEWED BY THE S CONSTRUCTION REPRESENTATIVE PRIOR TO PLACEMENT OF TE.
GENE A. S B. C	RAL PROJECT INVOLVES THE FOLLOWING: OIL / FILL COMPACTION & BEARING. .I.P. CONCRETE.	4.4 WELD SPECIFIC REINFOR	DED WIRE FABRIC SHALL CONFORM TO "STANDARD CATION FOR WELDED STEEL WIRE FABRIC FOR CONCRETE CEMENT," ASTM A1064.
2.5 IF PROJI	COORDINATION OF INFORMATION PRESENTED CONFLICTS w/ THE ECT SPECIFICATIONS, THE DRAWINGS WILL TAKE PRECEDENCE.	4.5 PLAC ELEVATE OTHERW	E WELDED WIRE FABRIC AT CENTER OF SLABS-ON-GRADE AND D SLAB TOPPINGS OVER METAL DECK, UNLESS NOTED ISE.
2.6 IN EXIST OF EX DRAW	GENERAL CALL-OUTS ARE FOR NEW CONSTRUCTION U.N.O ING CONSTRUCTION CALL-OUTS, ELEVATIONS AND DIMENSIONS (ISTING STRUCTURES ARE BASED ON EXISTING RECORD /INGS PROVIDED TO McKIM & CREED. THE (*) SYMBOL ON IDUAL FACILITY "STRUCTURAL" DRAWINGS INDICATES EXISTING	4.6 PRON FOOTING U.N.O. OI	VIDE BARS AT CORNERS AND INTERSECTIONS OF WALLS & SOF THE SAME NUMBER AND SIZE AS LONGITUDINAL BARS, N THE DRAWINGS.
CONS DIMEN U.N.O	TRUCTION CALL-OUTS, CONDITIONS, ELEVATIONS AND NSIONS TO BE FIELD VERIFIED BY THE GENERAL CONTRACTOR . PRIOR TO CONSTRUCTION, INCLUDING ORDERING AND	4.7 FABR THE LON	ICATE CONTINUOUS BARS IN SLABS, WALLS AND FOOTINGS TO GEST PRACTICABLE LENGTHS.
FABRI COUN A. "N	ICATING MATERIALS. RECORD DRAWINGS PROVIDED BY MANATEE ITY UTILIZED INCLUDES: MANATEE COUNTY PUBLIC UTILITIES DEPARTMENT, NORTH	4.8 REINI EMBEDD	FORCING STEEL SHALL NOT BE BENT AFTER BEING PARTIALLY ED IN HARDENED CONCRETE.
	SUBREGIONAL WASTEWATER FACILITIES IMPROVEMENTS, PHASE SEGMENT A - PART A, MASTER LIFT STATION NO. N1-A, MANATEE COUNTY, FLORIDA" BY LARSON ENGINEERING, INC. (DTD, MARCH 1984)	4.9 BARS REASON 4 10 REIN	SHALL BE COLD BENT AND SHALL NOT BE HEATED FOR ANY
2.7 SF REINF STEEI BE RE	PECIAL INSPECTIONS (IF APPLICABLE): ALL FOUNDATION SOILS, 5. STEEL, C.I.P. CONCRETE, CONCRETE MASONRY, STRUCTURAL 2. & PRE-CAST CONCRETE BUILDINGS / STRUCTURES WORK SHALL SVIEWED AS STATED IN CONJUNCTION w/ THEIR RESPECTIVE	4.11 REF REINFOR CLASS B "LCS" A M	ERENCE DRAWINGS FOR REQUIREMENTS FOR LAP SPLICING CING STEEL IN CONCRETE. ALL "LCS" SHALL CONFORM TO SPLICE CRITERIA. IT IS ACCEPTABLE TO TO LAP SPLICE NON MINIMUM OF 50 BAR DIAMETERS UNLESS NOTED OTHERWISE.
NOTE 2.8 CC	S BELOW.	4.12 LAP	SPLICED BARS IN CONCRETE ARE TO BE WIRE TIED.
EXIST NOTE REMC	ING CONSTRUCTION IN PLACE W/ THE OWNER. CONTRACTOR TO THE OWNER HAS THE RIGHT OF FIRST REFUSAL FOR ALL IVED AND / OR SCRAPPED MATERIALS AND EQUIPMENT.	4.13 LAP THAN 8".	SPLICED BARS IN MASONRY ARE TO BE NO FARTHER APART
3	FOUNDATIONS	5	CONCRETE
3.1 SH DESIG ACCC BY DF DTD. I THIS Y	ALLOW FOUNDATION CRITERIA: SN ALLOWABLE SOIL BEARING PRESSURE - 2,500 PSF IN PRDANCE w/ THE PROJECT GEOTECHNICAL REPORT AS PREPARED RIGGERS ENGINEERING SERVICES, INC. (PROJECT NO. DES 218739, MAY 11, 2021). THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING VALUE PRIOR TO FOUNDATION CONSTRUCTION. IN AREAS WHERE	5.1 IN GE COMPRE "DESIGN APPLICA 5.2 CONO BEQUIRE	NERAL CONCRETE SHALL DEVELOP 4,000 PSI MINIMUM SSIVE STRENGTH AT 28 DAYS. IN ADDITION REFERENCE CRITERIA" THIS DWG. & PROJECT SPECIFICATIONS FOR TION & SPECIFIC CONCRETE MIX DESIGN REQUIREMENTS. CRETE WORK SHALL CONFORM T0 "BUILDING CODE MENTS FOR STRUCTURAL CONCRETE" ACL 318 (2014 EDITION)
THE S IN THE BY TH	COL DOES NOT YIELD THIS BEARING STRESS VALUE, ADJUSTMENT E FOOTING DEPTHS AND FOUNDATION DIMENSION MAY BE MADE E ENGINEER BEFORE WORK PROCEEDS. CONTRACTOR IS	& TO "CC CONCRE	DE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING TE STRUCTURES", ACI 350 (2006 EDITION).
DEEP NOT A	FOUNDATION CRITERIA:	5.4 PROV	TE AND VERTICAL SURFACES UNLESS NOTED OTHERWISE.
3.2 PF PROJI	REPARE THE EXISTING SUBGRADE IN ACCORDANCE w/ THE ECT GEOTECHNICAL REPORT AS PREPARED BY DRIGGERS	AT LOCA 5.5 CHAN	TIONS SHOWN ON DRAWINGS.
ENGIN 2021). NOTIF	NEERING SERVICES, INC. (PROJECT NO. DES 218739, DTD. MAY 11, IN THE EVENT UNUSUAL SOIL CONDITIONS ARE UNCOVERED, Y THE OWNER AND ENGINEER PRIOR TO FOUNDATION TRUCTION FOR INSTRUCTIONS HOW TO PROCEED, AD JUSTMENT	5.6 CONT	ISE. RACTOR SHALL BE RESPONSIBLE FOR PROPER CURING OF ALL TE, CURING METHODS SHALL CONFORM TO "BUILDING CODE
IN THE MAY E CONT ADJU	E FOOTING DEPTHS AND GENERAL FOUNDATION CONSTRUCTION BE MADE BY THE ENGINEER BEFORE WORK PROCEEDS. RACTOR IS RESPONSIBLE FOR PERFORMING ANY SUCH STMENTS.	REQUIRE REQUIRE STRUCTI CONCRE	MENTS FOR STRUCTURAL CONCRETE" ACI 318, "CODE MENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE JRES" ACI 350 AND "GUIDE TO EXTERNAL CURING OF TE", ACI 308 (2016 EDITION).
3.3 FC REVIE TO PL	OOTING, PIER & SLAB EXCAVATIONS AND FORMS SHALL BE WED BY AN OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR ACEMENT OF CONCRETE.	5.7 UNLE AND SIZE SPLICED	SS NOTED OTHERWISE DOWELS SHALL BE THE SAME NUMBER E AS THE LARGEST VERTICAL BAR TO WHICH THEY ARE
3.4 FC LOWE	OOTING, PIER & SLAB ELEVATIONS SHALL NOT BE RAISED OR RED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.	5.8 REFE	RENCE PROJECT SPECIFICATIONS FOR REQUIRED FINISHES.
3.5 AL PLACI BE PL SHAU	L EXCAVATIONS SHALL BE ADEQUATELY DEWATERED BEFORE EMENT OF CONCRETE. NO CONCRETE OR CONCRETE FILL SHALL ACED IN STANDING WATER. ACCUMULATION EXCEEDING 1 INCH BE PUMPED OUT.	APPROV REINFOR 5.10 CON	AL TO OWNER PRIOR TO FABRICATION. DO NOT FABRICATE CING PRIOR TO RECEIPT OF APPROVED SHOP DRAWINGS.
3.6 AL BUILD SHALI SCRA NOT E GEOT SERV	L FILL MATERIAL, IF REQUIRED, INSIDE THE NING'S / STRUCTURE'S FOOTPRINT AND BELOW FOUNDATION'S BE SELECT MATERIAL FREE FROM ROOTS, TRASH WOOD PS, AND OTHER EXTRANEOUS MATERIALS. PLACE FILL IN LIFTS EXCEEDING THE RECOMMENDATIONS OF THE PROJECT ECHNICAL REPORT AS PREPARED BY DRIGGERS ENGINEERING ICES, INC. (PROJECT NO. DES 218739, DTD. MAY 11, 2021).	CONSTR CONCRE REVIEWE THROUG	UCTION REPRESENTATIVE PRIOR TO PLACEMENT OF TE. COMPRESSIVE STRENGTH TEST CYLINDERS TO BE ED BY THE OWNER'S CONSTRUCTION REPRESENTATIVE HOUT CONCRETE CONSTRUCTION OF THE PROJECT.
3.7 AL SUPP 3.8 CC SHALI	L FOOTINGS & PIERS SHALL BE CENTERED UNDER THE ORTED WALL / COLUMN MEMBER UNLESS NOTED OTHERWISE. ONSTRUCTION JOINTS IN FOUNDATION SLABS, WALLS & FOOTINGS L BE MADE AT LOCATIONS SHOWN ON DRAWINGS.		
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REVISIONS

6 GROUT

6.1 GROUT WHERE REQUIRED SHALL BE NON-SHRINK GROUT IN CONFORMANCE TO ASTM C1107.

6.2 GROUT SHALL BE NON-METALLIC AND NON-STAINING AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.

7 MASONRY

NOT APPLICABLE.

8 STRUCTURAL STEEL

8.1 STEEL SHALL CONFORM TO "STANDARD SPECIFICATION FOR STRUCTURAL STEEL," ASTM A36 (Fy=36 ksi) FOR ANGLES, PLATES & CHANNELS. WIDE FLANGE SECTIONS SHALL CONFORM TO ASTM A992 (Fy=50 ksi). HOLLOW STEEL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE B (Fy=46 ksi). STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B, (Fy=35 ksi).

8.2 STEEL WORK SHALL CONFORM TO "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS", OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC., (2016 EDITION), INCLUDING ALL SUPPLEMENTS AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", (LATEST EDITION).

8.3 CONNECTION BOLTS SHALL BE 3/4 INCH DIAMETER CONFORMING TO "STANDARD SPECIFICATION FOR HIGH-STRENGTH BOLTS FOR STRUCTURAL STEEL JOINTS", ASTM A325, UNLESS NOTED OTHERWISE CONNECTIONS ARE BEARING TYPE WITH THREADS EXCLUDED FROM SHEAR PLANES (A325x).

8.4 WELDING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY AWS D1.1 "STRUCTURAL WELDING CODE". WELDING SHALL BE PERFORMED BY CERTIFIED PERSONNEL WHO HAVE BEEN PREVIOUSLY QUALIFIED BY TEST PRESCRIBED IN THE AWS "STRUCTURAL WELDING CODE". ELECTRODES SHALL CONFORM TO AWS 5.5, E70XX.

8.5 LINTELS SHALL BEAR EIGHT (8) INCHES MINIMUM ON MASONRY UNLESS NOTED OTHERWISE.

8.6 THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING, SHORING, AND GUYING OF STEEL FRAMING AGAINST WIND, CONSTRUCTION LOADS, AND OTHER TEMPORARY FORCES UNTIL SUCH PROTECTION IS NO LONGER REQUIRED FOR THE SAFE SUPPORT OF THE FRAMING.

8.7 ALL COPES, BLOCKS, CUTS, CUT-OFFS AND OTHER CUTTING OF STRUCTURAL MEMBERS SHALL HAVE ALL RE-ENTRANT CORNERS SHAPED, AND NOTCH-FREE TO A RADIUS OF AT LEAST 1/2 INCH. THE FILLET AND ITS CONTIGUOUS CUTS SHALL MEET WITHOUT OFFSET OR CUTTING PAST THE POINT OF TANGENCY.

8.8 ANCHOR BOLTS SHALL BE ASTM F1554 OR ASTM A36 & SHALL BE EITHER HEADED w/ NUTS TACK WELDED TO BOLTS OR NON-HEADED w/ HOOKS AS REQUIRED BY THE DRAWINGS. PROVIDE (2) NUTS AND WASHERS WITH EACH ANCHOR BOLT AT COLUMNS UNLESS NOTED OTHERWISE. ANCHOR BOLTS FOR EQUIPMENT & OTHER ASSEMBLIES MAY BE POST APPLIED ANCHOR ASSEMBLIES AS INDICATED ON THE DRAWINGS.

8.9 OVERSIZED AND SLOTTED HOLES SHALL NOT BE USED FOR BOLTED CONNECTIONS ON THIS PROJECT EXCEPT AT LOCATIONS NOTED ON DRAWINGS.

8.10 SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER, AS TO LOCATION AND TYPE OF SPLICE. ANY MEMBER HAVING A SPLICE NOT SHOWN AND DETAILED ON THE SHOP DRAWINGS WILL BE REPLACED.

8.11 PRE-GROUTING BASE PLATES IS NOT PERMITTED.

8.12 ALL HOLES IN STRUCTURAL STEEL ARE TO BE PUNCHED OR DRILLED. FLAME CUTTING OF STEEL IS STRICTLY PROHIBITED.

8.13 ALL DESIGN, DETAILING, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION.

8.14 IN GENERAL SHOP CONNECTIONS SHALL BE EITHER WELDED OR BOLTED AND FIELD CONNECTIONS SHALL BE BOLTED UNLESS NOTED OTHERWISE.

8.15 FABRICATOR/CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR OWNER/ENGINEER APPROVAL PRIOR TO FABRICATION. ALL SHOP DRAWINGS MAY BE EXPEDITED IF THE FABRICATOR ADHERES CLOSELY TO THE DETAILS, NOTES, AND INSTRUCTIONS, SHOWN ON THE DRAWINGS.

8.16 ALL GALVANIZED MATERIALS THAT ARE FIELD CUT, FIELD WELDED OR DAMAGED IN SURFACE FINISH SHALL BE CLEANED AND RE-COATED w/ A 98% ZINC RICH OXIDE AND IN CONFORMANCE w/ THE PROJECT SPECIFICATIONS.

8.17 STRUCTURAL STEEL FRAMING & DECKING ERECTION TO BE REVIEWED BY THE THE OWNER'S CONSTRUCTION REPRESENTATIVE THROUGHOUT CONCRETE & STEEL CONSTRUCTION OF THE PROJECT.

ALUMINUM

NOT APPLICABLE.

9

WILLIAM F. BAND, P.E. No. 67838

05 AUG 2021

10 | PRECAST CONCRETE

10.1 PRE-CAST CONCRETE FIELD ASSEMBLED STRUCTURES TO BE DESIGNED BY THE PRE-CAST MANUFACTURER UTILIZING "DESIGN LOADS" PROVIDED THIS DRAWING AND / OR THE RESPECTIVE FACILITY STRUCTURAL DRAWINGS AND IN ACCORDANCE w/ THE PROJECT SPECIFICATIONS. COORDINATE w/ THE CIVIL, ELECTRICAL, MECHANICAL AND VENDOR EQUIPMENT DRAWINGS FOR ADDITIONAL MATERIALS REQUIRED FOR CALCULATION OF THE DEAD LOADS, LIVE LOADS AND EQUIPMENT LOADS, THAT MAY BE SUSPENDED FROM THE SIDES OF WALL PANELS AND UNDERSIDE OF THE ROOF SLAB PANELS AS APPLICABLE.

10.2. PRE-CAST CONCRETE FIELD ASSEMBLED STRUCTURES MANUFACTURER IS REQUIRED TO SUBMIT DRAWINGS AND CALCULATION PACKAGES SEALED, SIGNED AND DATED BY AN ENGINEER CURRENTLY LICENSED BY THE STATE OF FLORIDA. FABRICATION OF THE PRE-CAST FIELD ASSEMBLED STRUCTURES COMPONENTS SHOULD NOT OCCUR UNTIL "FINAL" ACCEPTANCE OF THE MANUFACTURER'S DRAWINGS AND CALCULATIONS SUBMITTALS.

10.3 REFERENCE MECHANICAL AND STRUCTURAL DRAWINGS FOR PRE-CAST CONCRETE FIELD ASSEMBLED STRUCTURES FOUNDATION SYSTEMS AND BEARING ELEVATIONS, DIMENSIONS, WALL AND ROOF SLAB OPENINGS & ROOF SLAB SLOPE REQUIREMENTS.

10.4 REFERENCE DRAWINGS & PROJECT SPECIFICATIONS FOR ALL INTERIOR AND EXTERIOR WALL AND SLAB SECTIONS FINISH REQUIREMENTS.

10.5 PRE-CAST FIELD ASSEMBLED STRUCTURES WALL AND SLAB SECTIONS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI.

10.6 REFERENCE ALL PROJECT SPECIFICATIONS RELATED TO THE PRE-CAST CONCRETE FIELD ASSEMBLED STRUCTURES FOR ADDITIONAL REQUIREMENTS AND INFORMATION.

10.7 CONSTRUCTION ACTIVITIES RELATED TO THE PRE-CAST FIELD ASSEMBLED STRUCTURES TO BE REVIEWED BY THE THE OWNER'S CONSTRUCTION REPRESENTATIVE THROUGHOUT CONCRETE CONSTRUCTION OF THE PROJECT.

11.0 PRE-ENGINEERED TIMBER TRUSS (NOT APPLICABLE)

11 PRE-ENGR. TIMBER TRUSS

NOT APPLICABLE.

12 PRE-ENGR. METAL BLDGS.

NOT APPLICABLE.

13 MISC. BUILDING MATERIALS

13.1 ALL MISCELLANEOUS MATERIALS ARE TO BE DELIVERED TO SITE & STAGED ON SITE PRIOR TO INSTALLATION. STORE ON SITE AS REQUIRED BY THE MATERIAL MANUFACTURER TO AVOID DAMAGE PRIOR TO INSTALLATION.

13.2 CAULK & SEALANT MATERIAL SHALL BE MASTERSEAL "NP 1" ONE COMPONENT, MOISTURE CURING HIGH PERFORMANCE POLY-URETHANE SEALANT, OR AN APPROVED EQUAL.

FLORID

4.1 THE	E FOL	LOWING LIST OF A
O REP	RESE	INT ALL THOSE US
UPPLE	MEN	T THE MORE COMM
DD'L	=	ADDITIONAL
1	=	ALUMINUM
L T	=	
	_	
LDG.	=	BUILDING
LK.	=	BLOCK
M.	=	BEAM
.0.	=	BOTTOM OF
RG.	=	BEARING
IP	=	CAST-IN-PLACE
	_	
	-	
IVIU	=	CONC. MAS. UNIT
.0.	=	CLEAN OUT
OL.	=	COLUMN
ONC.	=	CONCRETE
ONN.	=	CONNECTION
ONST	=	CONSTRUCTION
ONT	=	CONTINUOUS
	_	
	-	
	-	
IR'D.	=	CENTERED
BL.	=	DOUBLE
IR.	=	DIRECTION
WG.	=	DRAWING
WG.'s.	=	DRAWINGS
A.	=	FACH
1	=	
_	=	
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Q.	_	
	=	
XIST.	=	EXISTING
XP.	=	EXPANSION
LG.	=	FLANGE
DN.	=	FOUNDATION
S.	=	FAR SIDE
Т	=	FFFT
TG	=	FOOTING
Λ.	_	CACE
	_	
ALV.	=	GALVANIZED
ALVD	=	GALVANIZED
ORZ.	=	HORIZONTAL
.P.	=	HIGH POINT
RS.	=	HOURS
F	=	INSIDE FACE
IFO.	=	INFORMATION
ITR.	=	INTERIOR
ST.	=	JOIST
Г.	=	JOINT
В	=	KNEE BRACE
CS	=	LIQUID CONTAINM
		STRUCTURES
н	=	
	=	
	_	
.г. О	_	
SL	=	LONG SLOTTED
AS.	=	MASONRY
AT'L.	=	MATERIAL
FG.	=	MANUFACTURER
IN.	=	MINIMUM
TI.	=	METAI
/Δ	=	
Δ	_	
	_	
	_	
.5.	=	
. I.S.	=	NOT TO SCALE
.C.	=	ON CENTER
/F	=	OUTSIDE FACE
/H	=	OVERHANG
/O	=	OUT TO OUT
PNG.	=	OPENING
PP.	=	OPPOSITE
RIENT	.=	ORIENTATION
I CS	=	PLACES
P	=	
 ΛΠ	_	
	_	
	_	
	_	
EQD.	=	REQUIRED
	=	RETAINING
01.	=	ROTATE
IM.	=	SIMILAR
PA.	=	SPACED
PECS.	=	SPECIFICATIONS
.5.	=	STAINLESS STEEL
SL	=	SHURI SLOTTED
ID.	=	SIANDARD
TL.	=	STEEL
&B	=	TOP & BOTTOM
/D	=	TURN DOWN
HK.	=	THICK
HK'D	=	THICKENED
.0.	=	TOP OF
.0.S	=	TOP OF STEEL
YP.	=	TYPICAL
.N.O.	=	UNLESS NOTED
		OTHERWISE
В	=	CROSS OR "X"-BR/
ERT.	=	VERTICAL
/.P.	=	WORK POINT

ABBREVI

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Clearwater, Florida 33756 Phone: (727) 442-7196, Fax: (727) 461-3827

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TIONS	15	DESIGN LO	DAD	S			
REVIATIONS IS NOT INTENDED ON THE DRAWINGS, BUT TO N ABBREVIATIONS USED.	DESIGN FLORID MINIMU	I LOADS BASIS OF DESIG A BUILDING CODE (FBC) M DESIGN LOADS FOR B	GN: - 2020 E UILDING	DITION SS & OTHER STRUCTUR	ES - ASCE 7-16		
	EQUIP. LIVE LO ROOF L SNOW I	EQUIP. LOAD: N/A LIVE LOAD: 125 PSF (ELECTRICAL BLDG. FLOOR) ROOF LOAD: 65 PSF (ELECTRICAL BLDG.) & 20 PSF (COLLATERAL) SNOW LOAD: N/A					
				ASE SHEARS:	ATEGORTIII		
			9 – 4.5 K 8 & CLAE			0	
	OF IOM/	ZONE 1, ZONE ZONE 4 & ZON	E 5 WAL	L PRESSURES = BY ELI	ECTRICAL BLDG. MFG.	3.	
	SOIL BE	EARING: FIELD TEST PER REF. "FOUNDAT	PROJE	CT GEOTECH REPORT : OTE 3.1 DWG. S0.00	= 2,500 PSF		
	SLABS- PIPE EN SLABS BEAMS NON-LC BELOW SIDEWA REINFO WELDE STRUC	RETE 28 DAY COMPRESSIVE STRENGTH: -ON-GRADE & NON LCS SLABS NCASEMENTS: & WALLS OF LCS: S & COLUMNS OF LCS: CS FOOTINGS & PIERS: V GRADE & RETAINING WALLS: /ALK, DRIVEWAY, CURB & GUTTER: ORCING STEEL: ED WIRE FABRIC: CTURAL STEEL:			fc = 4,000 PSI fc = 3,000 PSI N/A fc = 4,500 PSI N/A fc = 4,500 PSI N/A fc = 4,000 PSI N/A fc = 4,000 PSI N/A fc = 3,000 PSI N/A ASTM A615, GRADE 60 ASTM A1064 REF. STRUCTURAL NOTE 8.1		
	ALUMIN BOLTS TYPE 3	IUM: SHALL BE 3/4"Ø ASTM A3 16 S.S.:	825 OR	REF. STRUCTURAL NOTE 9. REF. STRUCTURAL NOTES	2 N/A 8.3 & 9.2.d N/A		
	ANCHO ASTM A STEEL I ALUMIN SOIL BE)R BOLTS SHALL BE 3/4"Ø ASTM F-1554 OR \36 (STEEL); TYPE 316 S.S. (ALUMINUM): ELECTRODES SHALL CONFORM TO: \UM WELD FILLERS ALLOYS SHALL CONFORM TO: EARING CAPACITY:			AWS 5.5 E7OXX AWS A5.10 N/A REF. "DESIGN LOADS" TABLE		
	17	LEGEND					
L	ENLARC	GED PLAN AREA, DETAIL	=				
	CONC. I	MASONRY BLOCK	=			(EXISTING)	
	BRICK \	/ENEER	=			(EXISTING)	
	CONC.	WALL, SLAB, ETC.	=	4		(EXISTING)	
	GROUT		=			(EXISTING)	
	GRATIN	G	=			(EXISTING)	
	DETAIL NO./SHE	OR SECTION EET NO. REFERENCE	=	X-X-X-X	X-SY.YY		
	PROJEC	CT NORTH	=	NORTH			
	ELEVAT	ION DATUM	=	-\$-			
	ELEVAT REFERE	TION NO./SHEET NO. ENCE	=	X-SY.YY			
	ELEVAT	TONS X'-X" (Y.YY')	=	X'-X" = DISTANCE T Y.YY' = EQUIVALEN	O / FROM FACILITY REFEREN T SITE EL VERTICAL DATUM	CE EL 0'-0"	
	STEP IN	FOOTING ELEVATION	=	\$			

^{\\}MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\STRUCTURAL\S100-SC101-10240189.DWG 09/15/2022 17:29:08 SUVATH SENG

1 ABBREVIATIONS	2 TYPICAL DEVICE SYMBOLS	4 GENERAL ELECTRICAL SYMBOLS		7 GENERAL ELECTRICAL NOTES
1 ABBREVIATIONS NOTE: AL, ABBREVIATIONS MAY NOT DE UNUZLE TOR THIS FRUZET' A MAP AMERIES	2 TYPICAL DEVICE SYMBOLS * UPTR-LUC CHARACTER: Workshow To characters: SMICH DESIGNATION LUCKER-RIGHT GUARACTER CHARACTER WITH CONTROL 3 - THREF-WAY SWICH CONTROL 3 - THREF-WAY SWICH CONTROL 5 - DUMPENT CONTROL 0 - DUMPENT CONTROL 0 - DUMPENT CONTROL 0 - DUMPENT RECEIVED M - WOOD RATED SWICH 0 - DUMPENT RECEIVED M - WOOD RATED SWICH 0 - DUMPENT RECEIVED 0 - DUMPENT 0 - DUMPENT RECEIVED 0 - DUMPENT 0 - DUMPENT RECEIVED 0 - DUMPENT 0	4 GENERAL ELECTRICAL SYMBOLS ★ CONTACT = NORMALLY CLOSED CONTACT = NORMALLY CLOSED CONTACT = NORMALLY OPEN ★ THREE POSITION SELECTOR SWITCH ★ PUSHEUTTON, N.O., MOMENTARY CONTACT ★ CONTROL POWER TRANSFORMER ★ LIMIT SWITCH ★ FLOAT SWITCH ★ PRESSURE SWITCH ★ PRESSURE SWITCH ★ FLOAT SWITCH ★ PRESSURE SWITCH ★ FLOAT SWITCH ★ PRESSURE SWITCH ★ FLOAT SWITCH ★ SOLFNOD ★ FLOAT SWITCH ★ FLOAT SWITCH ★ SOLFNOD ★ CONTROL RELAY ★ SOLFNOD ★ SOLFNOD ★ SOLENDO	CONDUCT HOMERUN TO EQUIPMENT SHOWN, UNE TYPE DESIGNATIES CONCEANED, EXCLUMENT U.C. INVESTIGATION DESIGN CONT THIS CONCEAND INTERVENTION DESIGN CONTENTS INTERVENTION INTERVENTION DESIGN CONTENT INTERVENTION INTERVENTION INTERVENTIONE DESIGN CONTENT INTERVENTION INTERVENTION IN	Contract Restoration
REV.NO. DESCRIPTION	DATE	1365 Hamlet Avenue Clearwater, Florida 33756 Phone: (727) 442-7196, Fax: (727) 461 CA Lic. No. 29588 WWW.mckimcreed.com	REED 1-3827	MLS-TIDEVUE ELECTRICAL REHABILITATION ELECTRICAL SYMBOLS, ABBREVIATIONS AND NOTES ELECTRICAL SYMBOLS, ABBREVIATIONS AND NOTES ELECTRICAL ELECTRICAL STATUS: STATUS: STAT

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\ELECTRICAL\WATER-ELECT-LEAD SHEET.DWG 09/15/2022 17:29:24 SUVATH SENG

1 GENERAL ELECTRICAL SYMBOLS	2 POWER SYMBOLS
LIGHTING, APPLIANCE OR INSTRUMENT PANELBOARD	CLASS 1/DIVISION I/II CONDUIT SEAL-OFF FITTING
	STOP-START STATION
THERMOSTAT	LOCK-OUT-STOP SWITCH LOCATED AT FIELD DEVICE
MD MOTORIZED DAMPER	 △ LOCATED AT MAIN CONTROL PA ● LOCATED AT LOCAL CONTROL I
	MOUNTED ON DOOR
M UH X-X DENOTES LIGHTING PANEL AND BRANCH CIRCUIT NUMBER. MOTOR SYMBOL SHOWN DASHED DENOTES EQUIPMENT LOCATED ON ROOF.	\circ
CRAC COMPUTER ROOM AIR CONDITIONER	ELECTRICAL DEVICE AND THE LETTE
EIS EMERGENCY INVERTER SYSTEM	
ATS AUTOMATIC TRANSFER SWITCH	ELECTRICAL BUBBLE AND THE LETTE
ELECTRICAL MANHOLE / HANDHOLE AND THE LETTERS INDICATE THE TYPE	
OF THE HOLE	
CT110 CT110 RACEWAY SYSTEM CALL-OUTS: CT - CABLE TRAY BD - BUS DUCT DB - DUCTBANK EC - EXPOSED CONDUIT	
WW - WIRE WAY/TROUGH	CL FUSE- VOLTAGE AS REQUIRED AND S CL DENOTES CURRENT LIMITING TYP WHEN LESS THAN 3.
RACEWAY AND/OR CABLE ID NUMBER	PFD PFD DENOTES PULL FUSE DISCONNECT TYPE
3% LINE REACTOR	
CONDUIT HOMERUN TO EQUIPMENT SHOWN. LINE TYPE DESIGNATES CONCEALED, EXPOSED, ETC. NUMBERS/TEXT DESIGNATE HOMERUN EQUIPMENT (I.E. PANEL BOARD CIRCUIT NUMBER).	MICROPROCESSOR BASED METERING DEVICE
GENERAL CONDUIT RUN CONCEALED IN FURRED WALLS AND CEILINGS, EXPOSED ELSEWHERE UNLESS OTHERWISE NOTED OR SPECIFIED.	POWER RECPT. WITH DISCONNECT-6 NUMBER DENOTES AMPERE RATING
CONCEALED CONDUIT IN FLOOR SLAB, UNDERGROUND, ETC. EXISTING CABLE OR CONDUIT	POWER RECPT. 600V. 3 PHASE, 4 WIF
CONDUIT CAPPED	S S S S S S S S S S S S S S S S S S S
	PUSH-BUTTON STATION
	PUSH-BUTTON STATION WITH LOCK
	SELECTOR SWITCH
T EXISTING SITE TELEPHONE	INDICATING LIGHT
OVERHEAD ELECTRICAL UTILITY	CS CONTROL STATION
OVERHEAD TELEPHONE UTILITY	LOCAL-OFF-REMOTE SELECTOR SW
UGE UNDERGROUND ELECTRICAL UTILITY	R
UGT UGT UNDERGROUND TELEPHONE UTILITY	ATS-BI AUTOMATIC TRANSFER SWITCH -AT
	INDICATED DENOTES WITH BYPASS
2 TYPICAL DEVICE MOUNTING HEIGHTS	SUBMERSIBLE CABLES BY VENDOR
RECEPTACLES (INTERIOR PROCESS AREAS) — 16" AFF RECEPTACLES (EXTERIOR PROCESS AREAS) — 48" AFF LIGHT SWITCHES — 48" AFF	
PHONE OUTLETS — 16" AFF PHONE OUTLETS (WALL MOUNT) — 64" AFF	TRANSFORMER- SIZE AS NOTED ON THE DRAWINGS
DATA OUTLETS 16" AFF EXIT LIGHTS (WALL MOUNT) 16" ABOVE DOOR EMERGENCY LIGHTS (WALL MOUNT) 96" AFF	SHIELDED ISOLATION TRANSFORMER
NOTES: DIMENSIONS ARE TO DEVICE BOTTOM UNLESS NOTED OTHERWISE. IN CONCRETE BLOCK OR BRICK WALL CONSTRUCTION, CONTRACTOR SHALL COORDINATE DEVICE BOX INSTALLATION WITH MORTAR AND CONSTRUCTION JOINTS.	CABLE TRAY
REV.NO. DESCRIPTION	DATE DATE C E N C E N
	No 66861
	STATE OF
REVISIONS	No. 66861

			3	INST	RUMENTATION S
	NF 30AF NF 3R	NON-FUSED OR FUSED DISCONNECT SWITCH: TOP NUMBER DENOTES FUSE SIZE (NF=NON-FUSED). BOTTOM NUMBER DENOTES FRAME SIZE. RIGHT NUMBER DENOTES NEMA ENCLOSURE RATING.		PC	
	3R) <u>30AT</u> 30AF 2P	ENCLOSED THERMAL MAGNETIC CIRCUIT BREAKER: TOP NUMBER DENOTES TRIP. BOTTOM NUMBER DENOTES FRAME SIZE. CENTER RIGHT NUMBER DENOTES NUMBER OF POLES (2P OR 3P). THE UPPER LEFT NUMBER DENOTES NEMA ENCLOSURE RATING.	C	XXX XXX	DEVICE LOCATED IN FIELD AT C DEVICE LOCATED IN CONTROL INDICATING LIGHT, PT-DENOTE TEST TYPE LETTER INDICATES
EL NEL	$ \begin{array}{c} S \\ S \\ T \\ T \\ \end{array} \xrightarrow{0} \\ \end{array} \xrightarrow{800} \\ \overline{600} \end{array} $	DRAWOUT ()/ FIXED MOUNTED POWER CIRCUIT BREAKER WITH RMS TYPE SOLID STATE TRIP PROGRAMMER. EO DENOTES ELECTRICALLY OPERATED.		PT	W-WHITE G-GREEN A-AMBE R-RED B-BLUE C-CLEAR SWITCH - TOGGLE OPEN
	EO ×	LOAD BREAK	-		MOMENTARY CONTACT PUSH OPEN / NORMALLY CLOSED
	100AF • FUSE 1 20 TMTU	CIRCUIT BREAKER	Ċ		MUSHROOM HEAD MAINTAINEI CONTACT PUSH/PULL BUTTON
S INDICATE THE TYPE	0) 30 HMT0 80% <u>30AT</u> 600V		C	XXX o 4 c	MOMENTARY LOCKOUT STOP
S INDICATE THE TYPE	RK1	FUSE	(INS ###	INSTRUMENTATION BUBBLE
		DISCONNECT SWITCH VITH FUSING WHERE NOTED	C	XXX	SWITCH - LIMIT HELD CLOSED / OPEN
E NOTED ON THE DRAWINGS.	00 2 <u>1-70AT</u> 7AF	STAND-ALONE MOTOR CONTROLLER WITH EXTERNAL DISCONNECT: UPPER LEFT NUMBER DENOTES NEMA FRAME SIZE. UPPER RIGHT NUMBERS DENOTE AMPERE TRIP AND FRAME PATINGS LOWER LEFT NUMBER DENOTES NEMA ENCLOSURE	(XXX	LIMIT SWITCH CLOSE / OPEN
NUMBER INDICATES QUANTITY		RATINGS. LOWER EET FROMBER DENOTES NEMA ENCLOSURE RATING. THE MIDDLE LETTERS DENOTE TO ONE OF THE FOLLOWING: FVNR FULL VOLTAGE NON-REVERSE FVR FULL VOLTAGE REVERSIBLE TS1W TWO SPEED - SINGLE WINDING	(XXX	TEMPERATURE SWITCH CLOSE / OPEN
	00	TS2W TWO SPEED - DUAL WINDING RVSS REDUCED VOLTAGE SOFT STARTER RVAT REDUCED VOLTAGE AUTO TRANSFORMER VFD VARIABLE FREQUENCY DRIVE	(xxx	FLOAT SWITCH CLOSE / OPEN
)V, 3 PHASE, 4 WIRE	FVNR	UPPER LEFT NUMBER DENOTES NEMA FRAME SIZE.THE MIDDLE LETTERS DENOTE TO ONE OF THE FOLLOWING:FVNRFULL VOLTAGE NON-REVERSEFVRFULL VOLTAGE REVERSIBLETS1WTWO SPEED - SINGLE WINDINGTS2WTWO SPEED - DUAL WINDINGRVSSREDUCED VOLTAGE SOFT STARTERRVATREDUCED VOLTAGE AUTO TRANSFORMERVFDVARIABLE FREQUENCY DRIVE		XXX	PRESSURE SWITCH CLOSE / OPEN
0V AC, 20A	1 RVSS	REDUCED VOLTAGE SOLID-STATE MOTOR CONTROLLER, MCC UNIT. UPPER LEFT NUMBER DENOTES NEMA FRAME SIZE. THE MIDDLE LETTERS DENOTE TO ONE OF THE FOLLOWING: FVNR FULL VOLTAGE NON-REVERSE	C	XXX	FLOW SWITCH CLOSE / OPEN
OUT FEATURE		FVRFULL VOLTAGE REVERSIBLETS1WTWO SPEED - SINGLE WINDINGTS2WTWO SPEED - DUAL WINDINGRVSSREDUCED VOLTAGE SOFT STARTERRVATREDUCED VOLTAGE AUTO TRANSFORMERVFDVARIABLE FREQUENCY DRIVE		xxx ⊣¢⊢	VALVE LIMIT SWITCH (OPEN / CL
		VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER, MCC UNIT.	(XXX	TORQUE SWITCH, OPENS / CLOS
CH CONTROL STATION	100A 18-PULSE 5% LINE AND 5% LOAD REACTOR	UPPER LEFT NUMBER DENOTES NEMA FRAME SIZE. THE MIDDLE LETTERS DENOTE TO ONE OF THE FOLLOWING: FVNR FULL VOLTAGE NON-REVERSE FVR FULL VOLTAGE REVERSIBLE TS1W TWO SPEED - SINGLE WINDING TS2W TWO SPEED - DUAL WINDING	С	XXX Alfo	NORMALLY OPEN / CLOSED CON NUMBER INDICATES RELAY.
WITH SOLID SBI WHEN SOLATION SWITCH		RVSSREDUCED VOLTAGE SOFT STARTERRVATREDUCED VOLTAGE AUTO TRANSFORMERVFDVARIABLE FREQUENCY DRIVEANSI/IEEE TYPE-52 AC POWER CIRCUIT BREAKER	С	xxx ⊣ ŀ∘	THERMALLY ACTUATED MOTOR OVERLOAD RELAY, LATCHES OPEN CLOSED ON OVERLOAD
	M 15HP 460V 21.0 FLA XXX 21.0 FLA 460V 15HP XXX	AC MOTOR (SINGLE PHASE/THREE PHASE)	C N	XXX NOTC	TIMED CONTACT: NOTC NORMALLY OPENED C TIMED CLOSED TIME I COIL ENERGIZED NCTO NORMALLY CLOSED C TIMED OPEN TIME DEI COIL ENERGIZED NOTO NORMALLY OPENED C TIMED OPEN TIME DEI COIL DE-ENERGIZED
ΉE	SPD # #			~~~	CONTROL RELAY
	# NOTES: ALL SYMBOLS MAY ADDITIONAL SYMBO THE ELECTRICAL D PREFIX.	NOT BE UTILIZED FOR THIS PROJECT. DLS NOT SHOWN ON THIS DRAWING MAY BE SHOWN ELSEWHERE ON RAWINGS. IF REQUIRED, IEC RATINGS WILL INCLUDE THE "IEC" AND "IP"	× (c ×xx) (cF	R01-0 (YYY R001-0	COIL DESIGNATION: CR CONTROL RELAY MX AUXILIARY RELAY TR TIMING RELAY AR ALARM RELAY RR READY RELAY
	1365 Hamlet Avenu Clearwater, Florida Phone: (727) 442-7 CA Lic. No. 29588	M&CREED Je 33756 196, Fax: (727) 461-3827 500			stee ty A

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SYMBOLS

4 LIG	HTING SYMBOLS	5 FIRE ALARM SYSTEM 8 AUXILIARY SYSTEMS	7 LEGEN
X-X O	FLUORESCENT LIGHTING FIXTURE - SURFACE OR PENDANT MOUNTED. FIRST NUMERAL DENOTES LIGHTING PANEL (LP1), SECOND NUMBER DENOTES BRANCH CIRCUIT NUMBER. LOWER CASE LETTER DENOTES	AV 110 AUDIO/VISUAL ALARM INDICATOR (HORN/STROBE) NUMBER INDICATES STROBE CANDELA RATING WHEN OTHER THAN 15 (BD) AUXILIARY DETECTOR DC DOOR CONTACT GD GLASS-BREAK DETECTOR MS MOTION SENSOR CR CARD READER	ENLARGED PLAN AREA
	SWITCHED CIRCUIT.		EQUIPMENT TO BE DEMOLISHED OR RELC
EM	OR PENDANT.	F MANUAL PULL STATION FOPP THE FOLLOWING: IACP INTRUSION ALARM CONTROL PANEL ACP ALARM CONTROL PANEL FORD FIDER OPTIC PATCH PANEL	DETAIL OR SECTION NO./SHEET NO. REFER
	PENDANT OR CEILING MOUNTED LIGHTING FIXTURE.	FACP FIRE ALARM CONTROL PANEL	
	WALL MOUNTED LIGHTING FIXTURE.	B BELL ALARM BEACON	PROJECT NORTH
	POLE OR STANCHION MOUNTED LIGHTING FIXTURE.	FAAS FIRE ALARM ANNUNCIATOR STATION	
GF	TWO (2) POLE OR STANCHION MOUNTED LIGHTING FIXTURES	FS FLOW SWITCH H + HORN H + HORN PS = PAGING SPEAKER AV = Audio/Visual Annunciator	ELEVATION DATUM
	POLE MOUNTED FIXTURE WITH GF RECEPTACLE	TS VALVE TAMPER SWITCH C CEILING MOUNTED SPEAKER	
EM	EXIT SIGN WALL MOUNTED (SINGLE FACE WITH INDICATING		ELEVATION NO./SHEET REFERENCE
	ARROWS) WITH BATTERY PACK ARROW INDICATES DIRECTION OF EXIT DOOR	VOICE/DATA COMBINATION OUTLETS:	ELEVATIONS X'-X" (Y Y)
	EXIT SIGN PENDANT MOUNTED (DOUBLE FACE WITH INDICATING ARROWS) WITH BATTERY PACK ARROWS INDICATE DIRECTION OF EXIT DOOR	SD H SD H SD H SD H SD H SMOKE DETECTOR, MULTISENSOR SMOKE DETECTOR, MULTISENSOR	
	FIXTURE DESIGNATION SYMBOL. SEE LIGHTING FIXTURE SCHEDULE FOR	P SMOKE DETECTOR PHOTOELECTRIC D DUCT MOUNTED SMOKE DETECTOR	
D 150	DESCRIPTION AND TYPE. ALL FIXTURES SHOWN IN A ROOM WITH THIS SYMBOL SHALL BE OF TYPE INDICATED BY LETTER; NUMBER IN SYMBOL INDICATES LAMP WATTAGE AND NUMBER OF LAMPS WHERE MORE THAN ONE (UNLESS OTHERWISE NOTED) NUMBER BELOW SYMBOL INDICATES	H THERMAL DETECTOR (FIXED AND RATE OF RISE)	
10'-0" AFF	MOUNTING HEIGHT ABOVE FINISHED FLOOR OR AS NOTED.	H-HIGH TEMPERATURE FLOOR MOUNTED DATA OUTLET	
#	DUPLEX CONVENIENCE RECEPTACLE, 2 POLE, 3 WIRE, 120 VOLTS A.C. 20 AMP RECEPTACLE DESIGNATIONS, FIRST NUMBER DENOTES PANEL, SECOND NUMBER DENOTES CIRCUIT NUMBER, GE-DENOTES GROUND FAULT	CC1 SIGNAL MODULE	
XX	TYPE. SS-DENOTES SURGE SUPPRESSION TYPE WP-DENOTES WEATHERPROOF ENCLOSURE	TELEPHONE PUNCH DOWN BLOCK	
\ominus	SINGLE CONVENIENCE RECEPTACLE, 2 POLE, 3 WIRE; 120 VOLTS AC. 20 AMP UNLESS NOTED OTHERWISE ON DRAWINGS.	PBX PRIVATE BRANCH EXCHANGE	
←	POWER RECEPTACLE, 2 POLE, 3 WIRE 250 VOLTS A.C. 20 AMP UNLESS NOTED OTHERWISE ON DRAWINGS.		
₽	QUADRUPLEX RECEPTACLE	0 GROUND STIVIBOLS LE LINE EXTENDER	
Φ	HEAT-TRACE OR SPECIAL PURPOSE RECEPTACLE REFERENCE DRAWINGS FOR ADDITIONAL DETAILS	GROUND TEST POINT	
PU	PAGING UNIT	GROUND ROD MUX MULTIPLEXOR	
	PAGING UNIT SPEAKER	GROUND GRID CABLE CONNECTION XCR TRANSCEIVER	
a		#4/0 GROUND CABLE BURIED 2'-6" BELOW GRADE UNLESS OTHERWISE NOTED	
S2 ab	LIGHTING CONTROL SWITCHES: UPPER-LEFT CHARACTER "a" DENOTES SWITCH DESIGNATION. LOWER-RIGHT CHARACTER "4" DENOTES SWITCH CONTROL	CLASS I COPPER LIGHTNING CONDUCTOR UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY	
SS 3D abc	2 - TWO POLE 3 - THREE-WAY SWITCH CONTROL 4 - FOUR-WAY SWITCH CONTROL		
234	D - DIMMER CONTROL OS - OCCUPANCY SENSOR M - MOTOR RATED SWITCH T - 24V DC MOMENTARY CONTACT SWITCH		
	V - VARIABLE SPEED FAN SWITCH	7 ANSI/IEEE DEVICE NUMBERS	
L P1-2	BRANCH CIRCUIT HOME RUN TO PANELBOARD LETTERS AND NUMERALS	27 UNDER VOLTAGE 59 OVER VOLTAGE	
	3#12 AWG IN 3/4" CONDUIT. #10 AWG WIRE SHALL BE USED FOR RUNS BETWEEN PANEL AND FIRST LIGHTING FIXTURE OR RECEPTACLE EXCEEDING 50 FEET, UNLESS OTHERWISE NOTED ON DRAWING.	(38) BEARING PROTECTION (74) ALARM RELAY (46) PHASE UNBALANCE (81) FREQUENCY	
	LETTERS AND NUMBERS INDICATE PANEL AND CIRCUIT NUMBER (LP1-2).	48 INCOMPLETE SEQUENCE 86 LOCK OUT	
LP1-2 J /////	CROSS LINES INDICATE NUMBER OF CONDUCTORS. HALF HASH MARKS INDICATES NEUTRAL. NUMBER (10) DENOTES WIRE SIZE WHEN NOT #12 AWG. CONTINUE CONDUIT AND WIRE RUN FROM BOX TO DEVICE IN ROOM	(49) OVER TEMPERATURE (87) DIFFERENTIAL (51) TIMED OVERCURRENT	
	OR AREA AS NOTED BY BRANCH CIRCUIT NUMBER. #10 AWG WIRING SHALL BE USED FOR RUNS BETWEEN PANEL AND FIRST LIGHTING FIXTURE OR RECEPTACLE EXCEEDING 50 FEET, UNLESS OTHERWISE NOTED ON DRAWING	51G TIMED GROUND FAULT	
	INDICATES GROUND CONDUCTOR		
	INDICATES HOMERUN AND CONDUIT TAG		
← C12			
REV.NO.	DESCRIPTION DATE		
		No 66861 No	natee N
		Clearwater, Florida 33756 Phone: (727) 442-7196, Fax: (727) 461-3827	
		CA Lic. No. 29588 AUBREY A. HAUDRIC OURT, P.E. No. 66861	

ILS-TIDEVUE ELECTRICAL REHABILITATION

ELECTRICAL SYMBOLS ELECTRICAL 2

STATUS:			ISSUE
			\square
PROJ. MGR.	AAH		TBD
CHECKED	MAC		VERTICAL:
DESIGNED	SS		TBD
DRAWN	DS		HORIZONTAL:
MCE PROJ. #	01024-0189	ſ	
PROJ. START DATE:	2021.MAR	ſ	SCALE

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\ELECTRICAL\SYMBOLS_ELECTRICAL_2.DWG 09/15/2022 17:30:03 SUVATH SENG

Μ

NOTES:

- 1. PROVIDE AND COORDINATE RELOCATION REQUIREMENTS INCLUDING SCHEDULING WITH FLORIDA POWER AND LIGHT (FP&L) IN ORDER TO RELOCATE TRANSFORMER AND PRIMARY SERVICE THAT IS TO REMAIN IN RIGHT OF WAY. PROVIDE TEMPORARY SERVICE FOR CONSTRUCTION AND TEMPORARY BYPASS PUMPING FOR SANITARY FLOWS.
- 2. MAINTAIN 3' CLEARANCE AROUND TRANSFORMER AND 8' CLEARANCE IN FRONT OF TRANSFORMER DOOR.
- 3. 1-1/2" MINIMUM RIGID GALVANIZED OR SCHEDULE 80 PVC CONDUIT WITH PULL STRING INSTALLED BETWEEN METER SOCKET AND PADMOUNTED TRANSFORMER PROVIDED AND INSTALLED BY CONTRACTOR. CONDULETS ARE NOT ALLOWED, AND LIMITED TO 2 - 90 DEGREE BENDS PER RUN. FOR MAXIMUM DISTANCE BETWEEN TRANSFORMER AND METER SOCKET, SEE TABLE BELOW.
- 4. INTERCEPT CONDUIT FOR RTU ANTENNA CONNECTION AND REROUTE TO CONTROL PANEL LOCATED IN NEW ELECTRICAL BUILDING. INSTALL NEW WIRE FROM ANTENNA TO PLC. (MIN. 100')

LS-TIDEVUE ELECTRICAL REHABILITATION	PROJ. START DATE:2021.MARMCE PROJ. #01024-0189DRAWNSSDESIGNEDSSCHECKEDMACVERTICAL:
ELECTRICAL ELECTRICAL SITE PLAN	Image: Status: Image: Status:

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\ELECTRICAL\EB-100-01024-0189 SITE PLAN_V2.DWG 09/15/2022 17:30:40 SUVATH SENG

REV.NO. DESCRIPTION	DATE HARMANU HAUDA SEAL No 66861 No 66861 AUB REY A. HAUDRIC OURT, P.E.

1. PROVIDE BYPASS PUMPING.REFER TO BYPASS PUMP SPECIFIC ATIONS.

2. EXISTING ATS SHALL BE RELOCATED TO NEW ELECTRICAL BUILDING AND INSTALLED IN A NEMA 1 ENCLOSURE.

3. REMOVE ALL EXPOSED CONDUIT AND WIRE NOT USED PER EQUIPMENT DEMOLITION.

4. REMOVE ALL WIRING IN UNDERGROUND CONDUIT THAT IS TO BE ABANDONED. CAP ALL ABANDONED CONDUIT.

5. INTERCEPT EXISTING CONDUITS, AT EXISTING PANELBOARD LOCATION. INSTALL NEW PANELBOARD, REMOVE AND REPULL ALL WIRE TO EQUIPMENT, EXCEPT LIGHTING AND RECEPTACLES.

6. REMOVE AND REPLACE ALL RECEPTACLE AND SWITCHES W/NEW CORROSION RESISTANT DEVICES.

7. REMOVE EQUIPMENT PADS UNDERNEATH EQUIPMENT BEING DEMOLISHED AND REFINISH FLOOR.

8. PUMP MONITORING RELAYS TO BE RELOCATED TO NEW VFDs. COORDINATE INSTALLATION IN FIELD.

EQUIPMENT TO BE DEMOLISHED OR RELOCATED.

12"

1/2" = 1'-0

NORTH

0 1' 2' 3' 4' 5'

- EXISTING WATER LINE TO BE RELOCATED. REFER TO CIVIL SITE PLAN.

- UTILITY XFMR TO BE RELOCATED.

PROJ. START DATE: 2021.MAR SCALE 01024-0189 ICE PROJ. # E1.02 MLS-TIDEVUE ELECTRICAL REHABILITATION HORIZONTAL DS RAWN ss 1/2"=1' DESIGNED AWING NUMB MAC VERTICAL: HECKED ----ААН ELECTRICAL PROJ. MGR. REVISIO **DEMOLITION PLAN ISSUED FOR BID** STATUS:

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\ELECTRICAL\EB-100-01024-0189 SITE PLANE .DWG 09/15/2022 17:31:11 SUVATH SENG

	FAULT CALCULATIONS AT XE	MR SECONDARY	MLS TI
			LOAD DES
	XFMR RATING (KVA):	300.00	PUMP #1
Н,	SECONDARY VOLTS:	480.00	PUMP #2
	Z%:	3.91	PUMP #3
	FLA:	360.83	
	Z-TOLERANCE:	0.90	
	MULTIPLIER:	28.42	HOIST OVER WET
	ISC:	11697.20	
	ISC/FLA:	32.42	

UE		LOAD SUMMARY 480V	
TION	ТҮРЕ	HP/KVA	FLA
	Motor	100	124
	Motor	100	124
	Motor	100	124
	Motor	15	21
	Motor	2	3
-	Motor	2	3
	Motor	8	11
	Cont	45	54
NE	C 430.24:	433 kVA	520 AMPS
NE	C 230.42:	472 kVA	568 AMPS

NOTES:

- 1. INTERCEPT EXISTING CONDUITS AND PULL NEW WIRES.
- 2. INTERCEPT CONDUIT FOR GENERATOR BATTERY CHARGER AND BLOCK HEATER AND ROUTE TO PP-1, PULL NEW WIRE.

S-TIDEVUE ELECTRICAL REHABILITATION	MCE PROJ. # 01024-0189 DRAWN DS DESIGNED SS CHECKED MAC PROJ. MGR. AAH SCALE HORIZONTAL: BRIZONTAL: CHECKED MAC			
SINGLE LINE DIAGRAM	STATUS: ISSUED FOR E			

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\ELECTRICAL\SINGLE LINE DIAGRAM.DWG 09/15/2022 17:31:30 SUVATH SENG

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\ELECTRICAL\EB-10	0-01024-0189	SITE PLANE	.DWG 09/15/2022	17:32:05 SUVATH SENG

AWING NUM

REVISION

REV.NO.	DESCRIPTION DATE	ARMAND HAD
		CENS
		STATE OF
		- CORIDA
		- ONAL
-		AUBREY A. HAUDRIC
	REVISIONS	No. 66861

^{\\}MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\ELECTRICAL\EB-100-01024-0189 SITE PLANE .DWG 09/15/2022 17:32:07 SUVATH SENG

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\ELECTRICAL\EB-100-01024-0189 SITE PLANE .DWG 09/15/2022 17:32:09 SUVATH SENG

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\ELECTRICAL\EB-100-01024-0189 SITE PLANE .DWG 09/15/2022 17:32:11 SUVATH SENG

DATE	ARMANU HAUDASEAL	1
	CENST C	
	NO 66861	
	STATE OF	
	JOR IDA GIN	
	ONAL ENT	
	AUBREY A. HAUDRICOURT, P.E.	
	No. 66861	

REV.NO.	DESCRIPTION	DATE

ELEVATION 2 SCALE: 3/4"=1'-0"

PROJ. START DATE: 2021.MAR SCALE MCE PROJ. # 01024-0189 E1.08 MLS-TIDEVUE ELECTRICAL REHABILITATION HORIZONTAL: JG SS MAC AAH DRAWN AS SHOWN DESIGNED RAWING NUMBE VERTICAL: CHECKED PROJ. MGR. ----ELECTRICAL REVISION MCB, ATS AND MCC ELEVATION ISSUED FOR BID STATUS:

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\ELECTRICAL\MCB, ATS AND MCC ELEVATION.DWG 09/15/2022 17:32:33 SUVATH SENG

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\ELECTRICAL\EB-100-01024-0189 SITE PLANE .DWG 09/15/2022 17:33:05 SUVATH SENG

DRY WELL LIGHTING DEMO PLAN 1/4" = 1'-0"

	LIGHTING SCHEDULE							
LETTER	DESCRIPTION	LAMPS	REMARKS	SYMBOL				
D	1'X4' CLASS 1, DIV. 2 RATED. COPPER FREE ALUMINUM HOUSING, IMPACT RESISTANT POLYCORBONATE LENS. CEILING MOUNT. 120V INPUT.	4' HAZARDOUS LINEAR LED.WARM TEMP. 4000K, 4000 Lm.	CROUSE-HINDS. NHLL-4-W2-4L-2/6-225					

REV.NO.	DESCRIPTION DATE	ARMAND HAUDASEAL
		C E N S
		No 66861
		STATE OF
		LORIDA GIN
		MAL ENTIT
-		AUBREY A. HAUDRICOURT, P.E.
	REVISIONS	No. 66861

DRY WELL LIGHTING PROPOSED PLAN 1/4" = 1'-0"

DRY WELL LIGHTING PLAN SCALE: 1/4"=1'-0"

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\ELECTRICAL\DRY WELL LIGHTING PLAN.DWG 09/15/2022 17:33:24 SUVATH SENG

- 1. SURGE PROTECTION DEVICES REQUIRED, THOUGH GENERALLY NOT SHOWN. REFER TO I-SHEETS AND CONTRACT SPECIFICATIONS
- 2. COORDINATE WITH THE PROVIDER OF THE VARIABLE FREQUENCY MOTOR CONTROLLERS TO PROVIDE THE THERMAL AND LEAK DETECTION SIGNALS TO THE DRIVE MANUFACTURER AND SUPPLY ANY ANCILLARY EQUIPMENT REQUIRED FOR THESE SIGNALS, INCLUDING ANY CONDITIONING DEVICES.
- 3. E-STOP TO BE CONTINUOUS TO VFD.
- 4. ALL INSTRUMENTATION TO REMAIN.

LS-TIDEVUE ELECTRICAL REHABILITATION	PROJ. START DATE:2021.MARMCE PROJ. #01024-0189DRAWNDSDESIGNEDSSCHECKEDMAC		SCALE HORIZONTAL: N/A VERTICAL:	E1.11 DRAWING NUMBER	
ELECTRICAL INTERCONNECT DIAGRAM	ACJ. MGR.			FOR BID	

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\ELECTRICAL\INTERCONNECT_TV.DWG 09/15/2022 17:33:46 SUVATH SENG

	RP APS			AMPS	LES	ł	KVA PER PHASE		LES	AMPS				
CRI NO.	AN AN	DESCRIPTION OF LOAD			Ы	А	В	С			LUAD KVA	DESCRIPTION OF LOAD	A T	CRI NO.
1	20	ELEC. BUILDING RECEPTACLES OUTSIDE	0.36	<mark>3.</mark> 0	1	0.5			1	1.5	0.18	ELEC. BUILDING EMERG. EXIT LIGHT	20	2
3	20	ELEC. BUILDING RECEPTACLES INSIDE	0.72	6.0	1		1.5		1	6.7	0.8	ELEC. BUILDING LIGHTING INSIDE	20	4
5	20	ELEC. BUILDING OUTSIDE WALL PACKS	0.5	4.2	1			2.1	2	15.4	1.6	ELEC. BUILDING AC OUTDOOR UNIT #1	25	6
7	15	ELEC. BUILDING AC INDOOR UNIT #1	0.1	1.0	2	1.7					1.6			
			0.1				1.7		2	15.4	1.6	ELEC. BUILDING AC OUTDOOR UNIT #2	25	10
11	15	ELEC. BUILDING AC INDOOR UNIT #2	0.1	1.0	2			1.7			1.6			
			0.1			6.1			3	50.0	6	PANEL LP-2	100	14
15	20	SURGE PROTECTION DEVICE	0.1	0.8	3		6.1				6			
			0.1					6.1			6			
			0.1			1.6			1	12.5	1.5	RTU CONTROL PANEL	20	20
21					1		0.0		1	0.2	0.03	FLOW METER	10	22
23					1			0.0	1					24
<mark>2</mark> 5					1	0.0			1					26
27					1		0.0		1					28
29					1			0.0	1					30
31					1	0.0			1					32
<mark>3</mark> 3					1		0.0		1					34
<mark>3</mark> 5					1			0.0	1					36
37					1	0.0			1					38
39					1		0.0		1					40
41					1			0.0	1					42
			тс	ται κιλα		9.9	9.4	9.9				SERVICE CHARACTERISTICS		
	PANE	L LP-1				5.5	5.4	5.5		VOLTS:	208Y/120			A MLO
LOCATION MANATEE COUNTY		GRAND CONNECTED TO		DTAL KVA 29.2		9.2		PHASE: WIRE:	3	- -	225	A MCB		
	NOTES	: INTEGRATED PANELBOARD							•					

PANEL SCHEDULE LP-1

REV.NO.	DESCRIPTION DATE	ARMANU HAUDASEAL
		CENSTO
		No 66861
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		STATE OF
		CORIDA OGIN
		ONAL Entri
· ·		AUBREY A. HAUDRICOURT, P.E.
	KEVISIUNS	NO. 66861

	PS PS				ES	1	KVA PER PHASE		.ES				PS PS	
CKT NO.	TR AM	DESCRIPTION OF LOAD	LOAD KVA	AMPS	lod	А	В	С	POL	AMPS	LOAD KVA	DESCRIPTION OF LOAD	TR AM	CKT NO.
1	20	EX. FAN EF-2	1.3	10.8	1	1.6			2	2.4	0.25	WATER HEATER	20	2
3	20	EX. FAN EF-3	1.3	10.8	1		<mark>1.6</mark>				0.25			
5	20	EX. FAN EF-4	1.3	10.8	1			2.8	1	12.5	1.5	FUEL (TAPED ON)	20	6
7	20	INST AIR COMP	1	8.3	1	1.6			1	5.0	0.6	LIGHTS - BASEMENT	20	8
9	20	UNKOWN			1		1.0		1	8.3	1	WELL LIGHTS	20	10
11	20	RECORD/ANNUNC/	0.3	2.5	1			0.6	2	2.4	0.5	GENERATOR HEATER (OFF)	30	12
13	20	OUTSIDE LIGHTS	1	8.3	1	1.3								
15	20	LIGHTS- FL PUMP	0.6	5.0	1		1.2		1	5.0	0.6	LIGHTS - GENERATOR ROOM	20	16
17	20	RECPT - S. WALL	0.18	1.5	1			0.5	1	3.0	0.36	OUTSIDE RECPT./ GEN. RECPT.	20	18
19	20	SCRUBBER	0.1	0.8	1	0.3			1	1.7	0.2	LIGHTS TOILET/STORAGE	20	20
21	20	WETWELL EX. FAN (OFF)	0.1	1.0	2		0.2		1	0.8	0.1	BATT. CHARGE (OFF)	20	22
		WETWELL LIGHTS (OFF)	0.1					1.1	3	8.3	1	HOIST	20	24
25	60	SPARE			3	1.0					1	208V		
							1.0				1	(OFF)		
								0.0	1			OFF/SPARE	40	30
31					1	1.0			3	8.3	1	SIEMENS ODOR CONTROL	30	32
33					1		1.0				1		ĺ	
35					1			1.0			1			
37					1	0.0			1					38
39					1		0.0		1					40
41					1			0.0	1					42
						67	60	6.0				SERVICE CHARACTERISTICS		
	PANEL	LP-2				0.7	0.0	0.0	VOLTS:		208Y/120			A MLO
1	LOCATION BUILDING	MANATEE COUNTY ELECTRICAL BUILDING	GRAN	D CONNEC ¹	TED TC)TAL KVA	18	3.6	6 PHASE:		3 4	-	225	_ A MCB
	NOTES: INTEGRATED PANELBOARD													

PANEL SCHEDULE LP-2

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S-TIDEVUE ELECTRICAL REHABILITATION	PROJ. START DAT MCE PROJ. # DRAWN DESIGNED CHECKED	E: 2021.MAR 01024-0189 DS SS MAC	SCALE HORIZONTAL: N/A VERTICAL:	E1.12 DRAWING NUMBER
ELECTRICAL PANELBOARD SCHEDULES	PROJ. MGR.	ААН		FOR BID

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\ELECTRICAL\PANEL SCHEDULE_TID.DWG 09/15/2022 17:34:03 SUVATH SENG

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\ELECTRICAL\ELECTRICAL CONTROLS SCHEMATCIS.DWG 09/15/2022 17:34:24 SUVATH SENG

4" (MIN.) 4" (MIN.) -----

12"

24" MIN.

MAX.

12" MAX

2" MIN.

2" MIN

24" MIN.

• INTERVALS

DIRECT BURIED DUCTBANK SCALE: NT

SELECT COMPACTED BACKFILL

-FINISHED GRADE

- 2" MIN. WARNING TAPE

- COMPACTED FILL

CONDUITS WITH LESS THAN 12"

FILL

PLAN FOR QUANTITY

- SIZE AND QUANTITY AS REQUIRED

SCHEDULE 80 PVC CONDUIT, - CONTAINING NO MATERIALS OR STONE LARGER THAN 3/4"

#4 REBAR LATERALS (4 MIN.) - ADDITIONAL REBAR @ 24"

3000psi CONCRETE GROUT MIX

SCHEDULE 40 PVC CONDUIT, SIZE AND FILL PER CONDUIT.

- @12" INTERVALS WITH CLASS-B LAP

GROUNDING CONDUCTOR #3 REBAR STIRRUPS

#4/0 BARE TINNED COPPER

- 6" DETECTABLE WARNING TAPE COMPACTED SUB-BASE

- FINISHED GRADE

DYE

SEE NOTE 4

REINFORCED CONCRETE DUCTBANK SCALE: NTS

NOTES:

- 1. MINIMUM WIRE SIZE FOR ALL POWER CIRCUITS IS #12AWG CU UNLESS OTHERWISE NOTED.
- 2. MINIMUM CONDUIT SIZE IS 3/4" TRADE SIZE. 3. SWAB CLEAN EXISTING CONDUITS PRIOR TO PULLING NEW CIRCUITS.
- 4. FOR LOW VOLTAGE DUCTBANKS MINIMUM SEPARATION BETWEEN CONDUITS SHALL BE 2".

COPPER GROUND BUS PLATE MOUNTING DETAIL SCALE: NTS

CONDUIT TRANSITION DETAIL SCALE: NIS

\\MCKIMCREED.COM\NASUNI\DATA\PROJ\01024\0189\ENG\80-DRAWINGS\ELECTRICAL\ELECTRICAL DETAILS_TID.DWG 09/15/2022 17:34:51 SUVATH SENG

REV.NO.	DESCRIPTION DATE	ARMAND HAUDASEAL
		C E N S C C
		- No 66861
		STATE OF
		LORIDA G
		- ONAL ENIN
-		AUBREY A. HAUDRICOURT. P.F.
	REVISIONS	7 No. 66861

VFD TERMINAL BOX MOUNTING DETAIL SCALE: NTS

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VFD TERMINAL BOX SUBPANEL LAYOUT SCALE: NTS

LS-TIDEVUE ELECTRICAL REHABILITATION	PROJ. START DATE:2021.MARMCE PROJ. #01024-0189DRAWNDSDESIGNEDSSCHECKEDMACVERTICAL:
ELECTRICAL ELECTRICAL DETAILS 2 OF 2	Image: PROJ. MGR. AAH STATUS: ISSUED FOR BID

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PID FUNCTION SYMBOLS

	FIRST LETT	ER		SUCCEEDING-LETTER	RS
	MEASURED OR		READOUT OR	OUTPUT	
	INITIATING VARIABLE	MODIFIER	PASSIVE FUNCTION	FUNCTION	MODIFIE
А	Analysis		Alarm		
В	Burner, Combustion		Programmer		
С	Conductivity			Control	Closed
	(Electrical)				
D	Density or	Differential			
	Specific Gravity				
E	Voltage		Sensor (Primary	Eduction	
			Element)		
F	Flow Rate	Ratio (Fraction)			
G	Gaging		Glass,		
			Viewing Device		
Н	Hand				High
	Current (Electrical)		Indicate		
J	Power	Scan			
К	Time, Time Schedule			Control Station	
L	Level		Light (Pilot)		Low
М	Motor				Middle,
					Interme
Ν	Vibration				
0	Operation	Offset	Orifice, Restriction		Open
Ρ	Pressure, Vacuum		Point (Test)		
			Connection		
Q	Quantity, Event	Integrate, Totalize	Integrate		
R	Radiation		Record, Print	Regulate	
S	Speed, Frequency	Safety		Switch	
Т	Temperature			Transmit	
U	Multivariable	Trend	Multifunction	Multifunction	Multifun
V	Viscosity	Vacuum		Valve, Damper,	
				Louver, Gate	
W	Weight, Force,		Well		
	Torque				
Х	Unclassified		Unclassified	Unclassified	Unclass
Y				Relay, Compute,	
				Convert	
Z	Position			Final	Drive, A
				Control	Unclass
				Element	Final C
					Element

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SIDE PANEL ELEVATION A SCALE: NTS, SEE NOTE 1.

CONTROL PANEL SCHEMATIC DIAGRAM

NOTES:

- 1. SIDE PANEL LAYOUT AND SCHEMATIC IS DIAGRAMATTIC TO CONVEY MINIMUM REQUIREMENTS FOR FABRICATION AND INSTALLATION.
- 2. NEW SHUNT AND UPS COMMON ALARM SHALL BE WIRED TO SPARE INPUT B7. B7 IS NORMALLY CONFIGURED FOR ALARM IS SILENCED INDICATION AND SHALL BE CHANGED IN DFS SOFTWARE.
- 3. UPS SHALL BE MANUFACTURED BY NEWMAR PART NO. AC-UPS-48-2000

MLS-TIDEVUE ELECTRICAL REHABILITATION

INSTRUMENTATION **CONTROL PANEL**

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