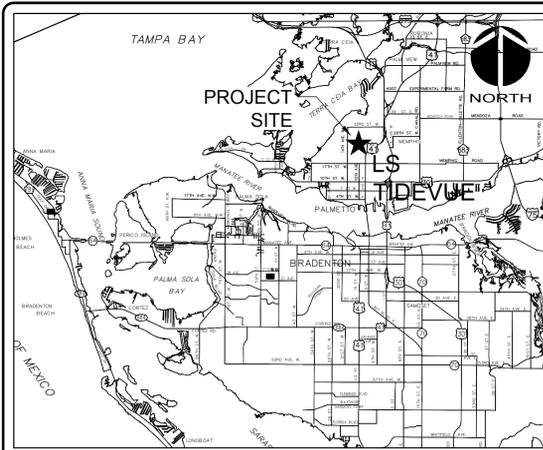


MLS-TIDEVUE ELECTRICAL REHABILITATION MANATEE COUNTY, PROJECT NO. 6022387

PROJ. NO. 01024-0189
SEPTEMBER 16, 2022
ISSUED FOR BID



VICINITY MAP NOT TO SCALE

PROJECT NAME: MLS-TIDEVUE ELECTRICAL REHABILITATION
PROJECT MANAGER: Brett Gocka, P.E.
EMAIL: Brett.Gocka@mymanatee.org
OWNER/DEVELOPER:
1355 41ST AVE EAST
ELLENTON FLORIDA
34222



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PROJECT INFORMATION



	<p>TRACEY L. WEBB, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 88356</p> <p>THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY TRACEY L. WEBB THE DATE INDICATED HERE, SEPTEMBER 15, 2022</p> <p>PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.</p>		<p>WILLIAM F. BAND, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 67838</p> <p>THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY WILLIAM F. BAND THE DATE INDICATED HERE, SEPTEMBER 15, 2022</p> <p>PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.</p>		<p>AUBREY A. HAUDRICOURT, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 66861</p> <p>THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY AUBREY A. HAUDRICOURT THE DATE INDICATED HERE, SEPTEMBER 15, 2022</p> <p>PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.</p>
<p>CIVIL C1.01 EXISTING CONDITIONS AND SITE DEMOLITION PLAN C1.02 SITE PLAN C1.03 STANDARD DETAILS</p>	<p>STRUCTURAL S0.00 GENERAL NOTES, DESIGN LOADS, DESIGN CRITERIA & LEGEND S1.00 EXIST. L.S. & ELECTRICAL BLDG. FDN. LAYOUT, SECTIONS & DETAILS</p>	<p>SHEET NUMBER SHEET TITLE</p> <p>GENERAL G0.00 COVER SHEET</p> <p>CIVIL C1.00 HYATT SURVEY MLS TIDEVUE</p> <p>ELECTRICAL E0.00 SYMBOLS, ABBREVIATIONS AND NOTES E0.01 SYMBOLS ELECTRICAL 1 E0.02 SYMBOLS ELECTRICAL 2 E1.01 ELECTRICAL SITE PLAN E1.02 DEMOLITION PLAN E1.03 SINGLE LINE DIAGRAM E1.04 PUMP BUILDING POWER PLAN E1.05 ELECTRICAL BUILDING POWER PLAN E1.06 ELECTRICAL BUILDING LAYOUT E1.07 GROUNDING AND LIGHTNING PROTECTION PLAN E1.08 MCB, ATS AND MCC ELEVATION E1.09 ELECTRICAL BUILDING LIGHTING PLAN E1.10 DRY WELL LIGHTING PLAN E1.11 ELECTRICAL INTERCONNECT DIAGRAM E1.12 PANELBOARD SCHEDULES E1.13 ELECTRICAL CONTROLS SCHEMATICS E1.14 ELECTRICAL DETAILS 1 OF 2 E1.15 ELECTRICAL DETAILS 2 OF 2</p>			
	<p>NEIL M. COFFMAN, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 91408</p> <p>THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY NEIL M. COFFMAN THE DATE INDICATED HERE, SEPTEMBER 15, 2022</p> <p>PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.</p>		<p>MICHAEL FADINI, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 87173</p> <p>THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MICHAEL FADINI THE DATE INDICATED HERE, SEPTEMBER 15, 2022</p> <p>PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.</p>		
<p>SHEET NUMBER SHEET TITLE</p> <p>MECHANICAL M1.01 Flow Meter Modifications & Details</p>	<p>INSTRUMENTATION I0.00 INSTRUMENTATION SYMBOLS SHEET 1 I00.1 INSTRUMENTATION SYMBOLS SHEET 2</p>				

SITE MAP

SEC 17, T34S, R18E

SCALE: 1" = 100'

Sheet List Table	
Sheet Number	Sheet Title
GENERAL	
G0.00	COVER SHEET
CIVIL	
C1.00	HYATT SURVEY MLS TIDEVUE
C1.01	EXISTING CONDITIONS AND SITE DEMOLITION PLAN
C1.02	SITE PLAN
C1.03	STANDARD DETAILS
MECHANICAL	
M1.01	FLOW METER MODIFICATIONS & DETAILS
STRUCTURAL	
S0.00	GENERAL NOTES, DESIGN LOADS, DESIGN CRITERIA & LEGEND
S1.00	EXIST. L.S. & ELECTRICAL BLDG. FDN. LAYOUT, SECTIONS & DETAILS
ELECTRICAL	
E0.00	SYMBOLS, ABBREVIATIONS AND NOTES
E0.01	SYMBOLS ELECTRICAL 1
E0.02	SYMBOLS ELECTRICAL 2
E1.01	ELECTRICAL SITE PLAN
E1.02	DEMOLITION PLAN
E1.03	SINGLE LINE DIAGRAM
E1.04	PUMP BUILDING POWER PLAN
E1.05	ELECTRICAL BUILDING POWER PLAN
E1.06	ELECTRICAL BUILDING LAYOUT
E1.07	GROUNDING AND LIGHTNING PROTECTION PLAN
E1.08	MCB, ATS AND MCC ELEVATION
E1.09	ELECTRICAL BUILDING LIGHTING PLAN
E1.10	DRY WELL LIGHTING PLAN
E1.11	ELECTRICAL INTERCONNECT DIAGRAM
E1.12	PANELBOARD SCHEDULES
E1.13	ELECTRICAL CONTROLS SCHEMATICS
E1.14	ELECTRICAL DETAILS 1 OF 2
E1.15	ELECTRICAL DETAILS 2 OF 2
INSTRUMENTATION	
I0.00	INSTRUMENTATION SYMBOLS SHEET 1
I00.1	INSTRUMENTATION SYMBOLS SHEET 2
I1.00	PROCESS AND INSTRUMENT DIAGRAM
I1.01	CONTROL PANEL

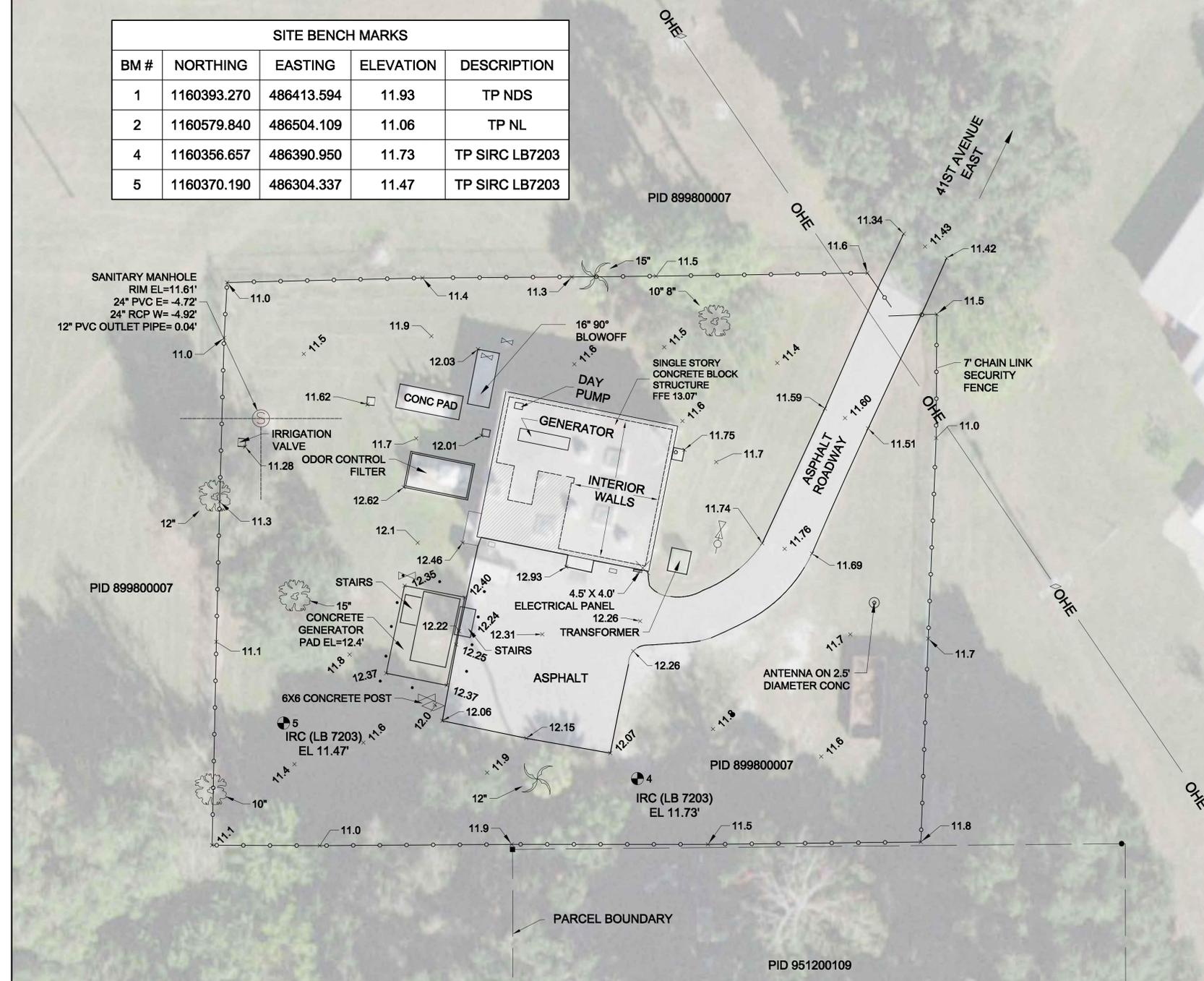
SHEET INDEX



LIFT STATION TIDEVIEW MANATEE COUNTY, FLORIDA TOPOGRAPHIC SURVEY PLAN SHEET

2
NL (LB 7203)
EL 11.06'

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



- ### GENERAL NOTES
1. THE FOLLOWING NGS VERTICAL CONTROL MONUMENT WAS RECOVERED AND UTILIZED FOR THE ELEVATIONS INDICATED HEREON: "COLLIER" NAVD 1988 ELEVATION 14.60'
 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 COUNTY CLERK WEBSITE.
 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 SERVICES, INC.

LEGEND

RW RIGHT-OF WAY	←	GUY WIRE	
PID PARCEL IDENTIFICATION	□	WATER METER	
PB PLAT BOOK	⊙	SANITARY MANHOLE	
OR OFFICIAL RECORD	⊙	STORM MANHOLE	
PG PAGE	⊙	MAILBOX	
BM BENCHMARK	⊙	LIGHT POLE	
FFE FINISHED FLOOR ELEVATION	⊙	FIRE HYDRANT	
EL ELEVATION	⊙	BACKFLOW PREVENTER	
○		●	BOLLARD
●		□	UTILITY BOX
⊙		⊙	ANTENNA
■		⊙	VALVE
⊙		○	CLEANOUT
⊙		⊙	GRATE INLET
⊙		⊙	
◇		⊙	PALM TREE



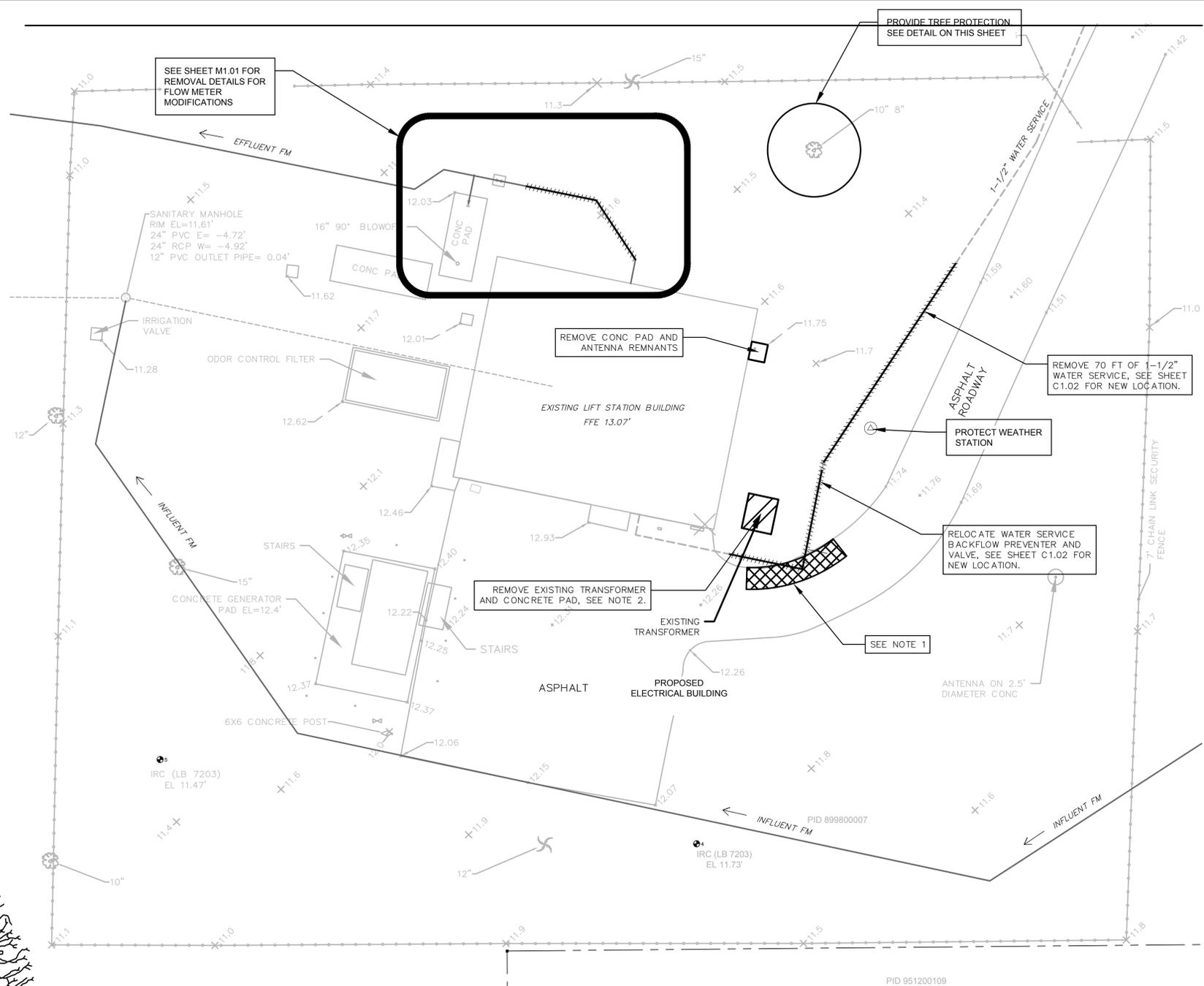
Hyatt Survey Services, Inc.
Geographic Data Specialists LB No.: 7203
2012 LENA ROAD, BRADENTON, FLORIDA 34211
PH. (941) 748-4693



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

NO.	REVISION DESCRIPTION	BY	DATE
PROJECT #	15-1919-6A		
SURVEY #	TIDEVIEW		
SECTION	17		
TWN RNG	34-18		
SCALE	1" = 30'		
SURVEYED	HYATT	4/2021	
DESIGNED			
DRAWN	DR	4/2021	
CHECKED	RH	4/2021	



REMOVAL LEGEND

- REMOVE CONCRETE
- REMOVE ASPHALT
- PIPE REMOVAL

LEGEND

- R/W RIGHT-OF WAY
- PID PARCEL IDENTIFICATION
- PB PLAT BOOK
- OR OFFICIAL RECORD
- PG PAGE
- BM BENCHMARK
- FFE FINISHED FLOOR ELEVATION
- EL ELEVATION
- IRON PIPE
- IRON ROD W/ CAP
- PK NAIL W/ DISC
- CONCRETE MONUMENT
- SITE BENCHMARK
- SIGN
- UTILITY POLE
- GUY WIRE
- WATER METER
- SANITARY MANHOLE
- STORM MANHOLE
- MAILBOX
- LIGHT POLE
- FIRE HYDRANT
- BACKFLOW PREVENTER
- BOLLARD
- UTILITY BOX
- ANTENNA
- VALVE
- CLEANOUT
- GRATE INLET
- PALM TREE

- SURVEYOR'S NOTES**
- SURVEY COMPLETED BY HYATT SURVEY SERVICES, INC. LOCATED AT 2012 LENA ROAD, BRADENTON FLORIDA 34211. FIELD WORK COMPLETED APRIL 2021.
 - THE FOLLOWING NGS VERTICAL CONTROL MONUMENT WAS RECOVERED AND UTILIZED FOR THE ELEVATIONS INDICATED HEREON: "COLLIER" NAVD 1988 ELEVATION 14.60'
 - THIS SURVEY IS REFERENCED TO A PROJECTION OF THE FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983/2007 ADJUSTMENT).
 - 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 WEBSITE.

SITE BENCH MARKS

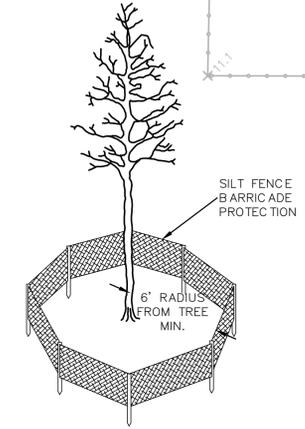
BM #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1160393.270	486413.594	11.93	TP NDS
2	1160579.840	486504.109	11.06	TP NL
4	1160356.657	486390.950	11.73	TP SIRC LB7203
5	1160370.190	486304.337	11.47	TP SIRC LB7203

- GENERAL NOTES EROSION AND SEDIMENT CONTROL**
- 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 BE TAKEN.
 - NO DEVIATIONS FROM THE PROJECT PLANS OR SPECIFICATIONS ARE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD AND THE ARCHITECT.
 - 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.).
 - 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.
 - 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.
 - 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 CONTRACTOR.
- 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.
 - 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.

- CLEARING AND GRUBBING**
- ALL DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR 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 ACRE.
 - 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.
 - ALL DISTURBED AREAS MUST, AS A MINIMUM, BE MAINTAINED BY WATER TO MINIMIZE THE GENERATION OF DUST.
- SITE GRADING**
- THE SITE MUST, AT ALL TIMES, BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS CONTROLLED BY EROSION AND SEDIMENT CONTROL MEASURES.
 - ALL AREAS USED FOR MATERIAL STOCKPILE, BE IT FILL/EXCAVATED MATERIALS, STONE, OR OTHERWISE, MUST BE 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**
- TEMPORARY OUTLET PROTECTION MUST BE INSTALLED AT ALL PROPOSED STORM WATER OUTFALLS PRIOR TO THE INSTALLATION OF THE DRAINAGE SYSTEM.
 - 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).
 - ANY SLOPES GREATER THAN 3:1 (H:V) RECEIVING PIPELINE OR UTILITY INSTALLATION MUST BE BACKFILLED AND STABILIZED DAILY AS THE INSTALLATION PROCEEDS.
- FINAL SITING**
- PERMANENT SOD MUST BE INSTALLED ON ALL EXPOSED AREAS WITHIN THREE (3) DAYS AFTER FINAL GRADING.
 - 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 SWEEPED CLEAN OF ALL SEDIMENT.
 - 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.

- GENERAL NOTES**
- IN CASE OF A DISCREPANCY ON THESE DRAWINGS OR BETWEEN THESE DRAWINGS AND THE DRAWINGS OF OTHER DISCIPLINES OR CONDITIONS IN THE FIELD, THE MORE STRINGENT REQUIREMENT WILL BE MET. REPORT ANY DISCREPANCY TO ENGINEER PRIOR TO ACTION.
 - LOCATIONS AND ELEVATIONS OF UTILITIES SHOWN ON PLANS ARE TO BE CONSIDERED APPROXIMATE ONLY. THE CONTRACTOR MUST EMPLOY THE USE OF GROUND PENETRATING RADAR (GPR) EQUIPMENT BY A QUALIFIED COMPANY AND PERSONNEL TO LOCATE, IDENTIFY AND PROTECT EXISTING UNDERGROUND UTILITIES IN THE AREA OF WORK. ANY UTILITIES SPOTTED MUST BE DRAWN ON THE SITE PLAN PROVIDED BY THE ARCHITECT/ENGINEER AND SUBMITTED AS PART OF THE AS BUILT DRAWINGS. NOTIFY UTILITY AND ARCHITECT/ENGINEER OF CONFLICTS BETWEEN EXISTING AND PROPOSED FACILITIES.
 - DAMAGE TO EXISTING SIDEWALKS, ASPHALT OR OTHER OFF-SITE IMPROVEMENTS DURING CONSTRUCTION MUST BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
 - THE CONTRACTOR MUST COMPLY WITH ALL FEDERAL AND STATE REGULATIONS CONCERNING NOTIFICATION TO THE REGULATORY AUTHORITIES OF ANY AND ALL BUILDING RENOVATIONS AND/OR DEMOLITION.

- PLAN NOTES**
- PROVIDE CLEAN SAWCUT AT ALL PAVEMENT REMOVAL LOCATION (CONCRETE OR ASPHALT). REMOVAL LIMITS AS SHOWN (16 FT X 3.5 FT) ARE APPROXIMATE AND SHALL BE ADJUSTED AS NEEDED BASED ON FIELD CONDITIONS.
 - REMOVE EXISTING TRANSFORMER AND CONC PAD, SEE ELECTRIC REMOVAL PLAN REGARDING CONDUIT AND SERVICE IMPACTS.
 - CONTRACTOR TO INSTALL SILT FENCE AROUND ENTIRE FENCED AREA.



TREE PROTECTION DETAIL
NOT TO SCALE

REV. NO.	DESCRIPTION	DATE



MCKIM & CREED

1365 Hamlet Avenue
Clearwater, Florida 33756
Phone: (727) 442-7196, Fax: (727) 461-3827

CA Lic. No. 29988
www.mckimcreed.com



MLS-TIDEVUE ELECTRICAL REHABILITATION

CIVIL

EXISTING CONDITIONS AND SITE DEMOLITION PLAN

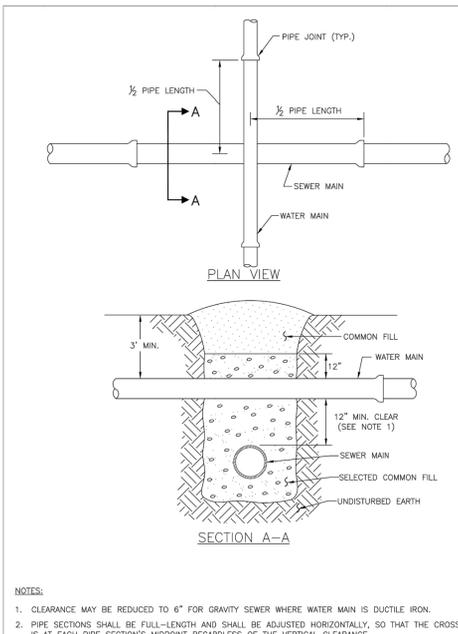
PROJ. START DATE: 2021.MAR
MCE PROJ. # 01024-0189
DRAWN TLW
DESIGNED SS
CHECKED MAC
PROJ. MGR. AAH

SCALE: HORIZONTAL: 1"=10' VERTICAL: 1"=10'

C1.01

DRAWING NUMBER

STATUS: ISSUED FOR BID

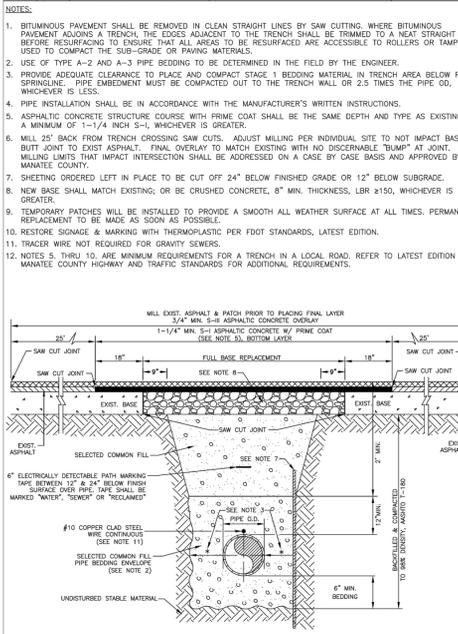


REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR C900-16 PVC PIPE (DR-18)

MAIN PIPE SIZE	HORIZ. BENDS	TEES					REDUCERS					PLUGS & VALVES
		SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH			
90'	45'	22.5'										
24	90	38	18	K24	K20	K18	K16	K14	K12	K10	K8	214
20	78	32	16	K20	K16	K14	K12	K10	K8	K6	K4	184
16	66	27	13	K16	K12	K10	K8	K6	K4	K3	K2	151
12	52	22	10	K12	K8	K6	K4	K3	K2	K1.5	K1	118
10	44	18	9	K10	K8	K6	K4	K3	K2	K1.5	K1	100
8	37	15	7	K8	K6	K4	K3	K2	K1.5	K1	K0.75	83
6	29	12	6	K6	K4	K3	K2	K1.5	K1	K0.75	K0.5	63
4	21	8	4	K4	K3	K2	K1.5	K1	K0.75	K0.5	K0.25	45

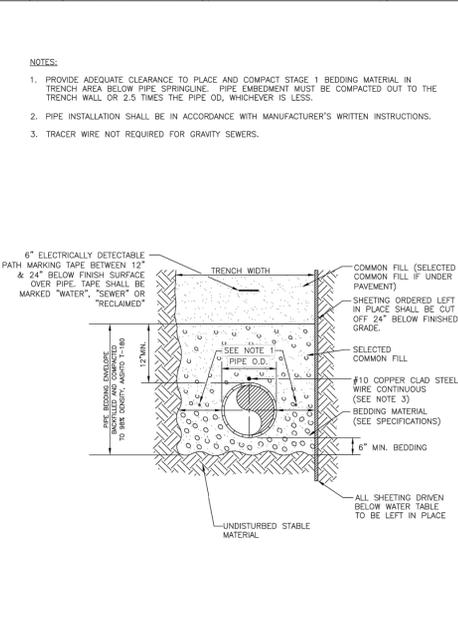
- NOTES:**
- RESTRAIN 11.25' BENDS 50% OF LENGTH FOR 22.5' BENDS.
 - ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
 - ALL ISOLATION VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
 - PIPE SIZES ARE GIVEN IN INCHES.
 - RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET.
 - LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 180 PSI.
 - THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON SOIL CLASSIFICATION SP WITH AWWA TYPE 3 TRENCH CONDITIONS, 180 PSI TEST PRESSURE, 3 FEET OF COVER AND 1.5 FACTOR OF SAFETY. ACTUAL BURY CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.
 - RESTRAINED LENGTHS TO BE APPLIED TO PIPELINES PER DETAIL UG-10 RESTRAINED LENGTHS FOR PIPE.
 - ALL RESTRAINED JOINT HARDWARE SHALL CONFORM TO 1.11.17 OF THE PUBLIC WORKS UTILITIES STANDARDS MANUAL.
 - ALL THREE "LEGS" OF TEES SHALL BE RESTRAINED PER THE STATED LENGTH IN THE TABLE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT	TYPICAL NEW WATER & SEWER LINE CROSSING	UG-2
REVISION DATE	February 25, 2020 DATE OF APPROVAL	



MANATEE COUNTY PUBLIC WORKS DEPARTMENT	TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (CROSSING)	UG-12
REVISION DATE	February 25, 2020 DATE OF APPROVAL	

MANATEE COUNTY PUBLIC WORKS DEPARTMENT	RESTRAINED LENGTHS FOR PVC PIPE	UG-8
REVISION DATE	February 25, 2020 DATE OF APPROVAL	



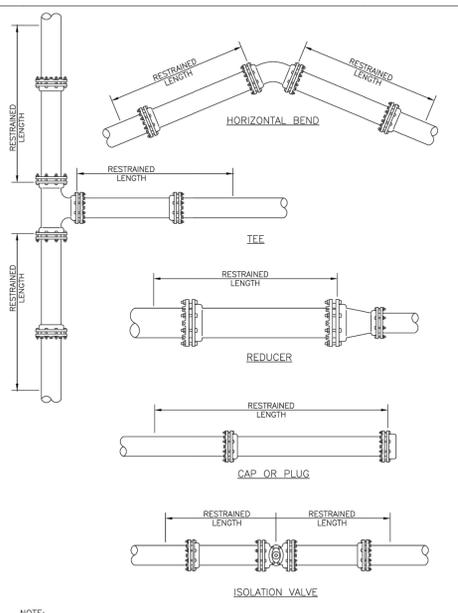
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	TRENCH WITH TYPE A-2 PIPE BEDDING	UG-15
REVISION DATE	February 25, 2020 DATE OF APPROVAL	

REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DIP (POLY-WRAPPED)

MAIN PIPE SIZE	HORIZ. BENDS	TEES					REDUCERS					PLUGS & VALVES
		SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH			
90'	45'	22.5'										
36	142	59	28	K36	K30	K24	K20	K16	K12	K10	K8	453
30	124	51	25	K30	K24	K20	K16	K12	K10	K8	K6	391
24	106	44	21	K24	K20	K16	K12	K10	K8	K6	K4	327
20	92	38	18	K20	K16	K12	K10	K8	K6	K4	K3	280
16	77	32	15	K16	K12	K10	K8	K6	K4	K3	K2	231
12	61	25	12	K12	K10	K8	K6	K4	K3	K2	K1.5	181
10	52	22	10	K10	K8	K6	K4	K3	K2	K1.5	K1	153
8	44	18	9	K8	K6	K4	K3	K2	K1.5	K1	K0.75	128
6	34	14	7	K6	K4	K3	K2	K1.5	K1	K0.75	K0.5	98
4	24	10	5	K4	K3	K2	K1.5	K1	K0.75	K0.5	K0.25	69

- NOTE:**
- SEE UG-8 RESTRAINED LENGTHS FOR PVC PIPE DETAIL FOR NOTES 1 THROUGH 9 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR DIP.

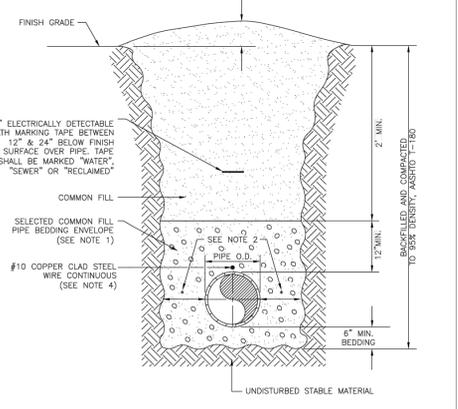
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	RESTRAINED LENGTHS FOR DIP	UG-9
REVISION DATE	February 25, 2020 DATE OF APPROVAL	



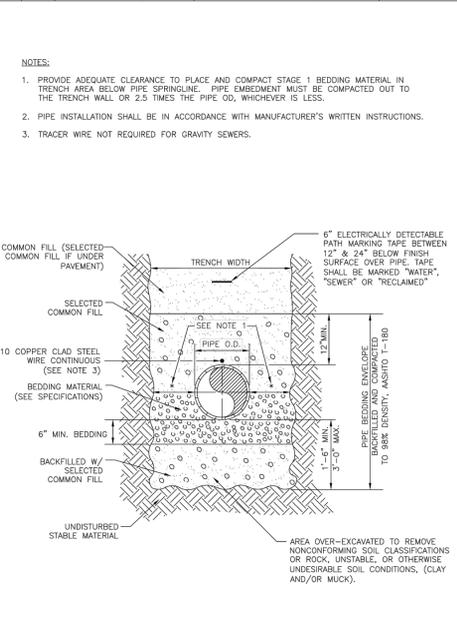
- NOTE:**
- SEE DETAIL UG-8 RESTRAINED LENGTHS FOR PVC PIPE FOR NOTES 1 THROUGH 9 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR PIPE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT	RESTRAINED LENGTHS FOR PIPE	UG-10
REVISION DATE	February 25, 2020 DATE OF APPROVAL	

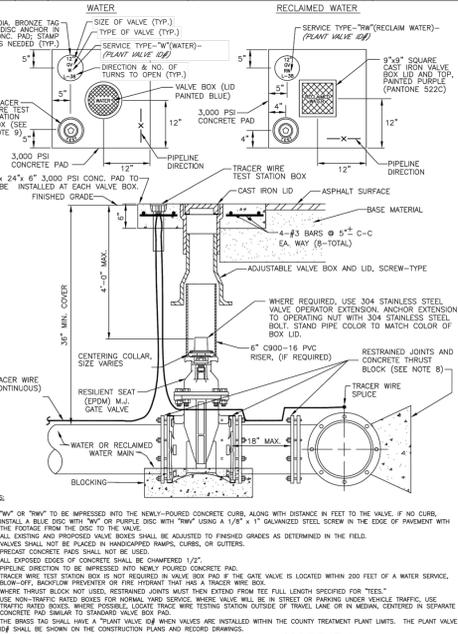
- NOTES:**
- USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
 - PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



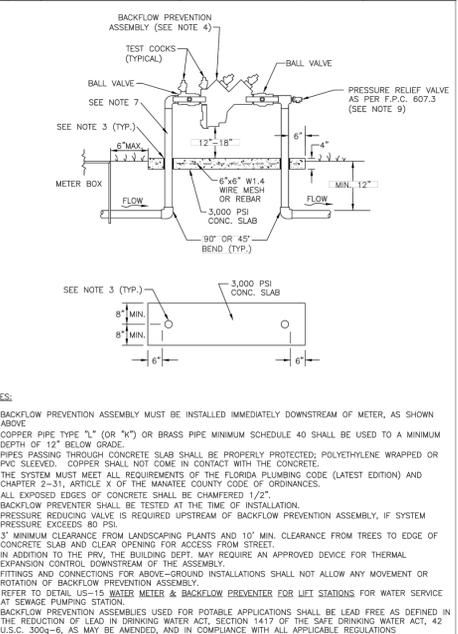
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	TRENCH WITH UNIMPROVED SURFACE TYPE A-1 PIPE BEDDING	UG-11
REVISION DATE	February 25, 2020 DATE OF APPROVAL	



MANATEE COUNTY PUBLIC WORKS DEPARTMENT	TRENCH WITH TYPE A-3 PIPE BEDDING	UG-16
REVISION DATE	February 25, 2020 DATE OF APPROVAL	

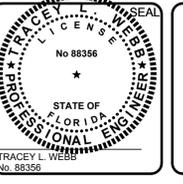


MANATEE COUNTY PUBLIC WORKS DEPARTMENT	GATE VALVE, BOX, LID AND TAG	UW-2
REVISION DATE	February 25, 2020 DATE OF APPROVAL	



MANATEE COUNTY PUBLIC WORKS DEPARTMENT	3/4\" & 1\" BACKFLOW PREVENTION ASSEMBLY	UW-13
REVISION DATE	February 25, 2020 DATE OF APPROVAL	

REVISION	DESCRIPTION	DATE



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Manatee County
 FLORIDA

MLS-TIDEVEU ELECTRICAL REHABILITATION
 CIVIL
STANDARD DETAILS

PROJ. START DATE: 2021.MAR
 MCE PROJ. # 01024-0189
 DRAWN TLW
 DESIGNED SS
 CHECKED MAC
 PROJ. MGR. AAH

SCALE: HORIZONTAL: 1"=10'
 VERTICAL: 1"=10'

C1.03
 DRAWING NUMBER

STATUS: ISSUED FOR BID

1 GENERAL ELECTRICAL SYMBOLS

	LIGHTING, APPLIANCE OR INSTRUMENT PANELBOARD
	POWER PANELBOARD
	CP - CONTROL PANEL
	MCC
	THERMOSTAT
	MOTORIZED DAMPER
	LOUVER MOTOR
	MOTOR, UNIT HEATER-NUMERAL DENOTES LIGHTING PANEL AND BRANCH CIRCUIT NUMBER. MOTOR SYMBOL SHOWN DASHED DENOTES EQUIPMENT LOCATED ON ROOF.
	COMPUTER ROOM AIR CONDITIONER
	EMERGENCY INVERTER SYSTEM
	AUTOMATIC TRANSFER SWITCH
	ELECTRICAL MANHOLE / HANDHOLE AND THE LETTERS INDICATE THE TYPE OF THE HOLE
	RACEWAY SYSTEM CALL-OUTS: CT - CABLE TRAY BD - BUS DUCT DB - DUCTBANK EC - EXPOSED CONDUIT WW - WIRE WAY/TROUGH
	RACEWAY AND/OR CABLE ID NUMBER
	LINE REACTOR
	CONDUIT HOMERUN TO EQUIPMENT SHOWN. LINE TYPE DESIGNATES CONCEALED, EXPOSED, ETC. NUMBERS/TEXT DESIGNATE HOMERUN EQUIPMENT (I.E. PANEL BOARD CIRCUIT NUMBER).
	GENERAL CONDUIT RUN CONCEALED IN FURRED WALLS AND CEILINGS, EXPOSED ELSEWHERE UNLESS OTHERWISE NOTED OR SPECIFIED.
	CONCEALED CONDUIT IN FLOOR SLAB, UNDERGROUND, ETC.
	EXISTING CABLE OR CONDUIT
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	CONDUIT CAPPED
	DEMOLITION
	E SITE ELECTRICAL
	E EXISTING SITE ELECTRICAL
	T SITE TELEPHONE
	T EXISTING SITE TELEPHONE
	OHE OVERHEAD ELECTRICAL UTILITY
	OHT OVERHEAD TELEPHONE UTILITY
	UGE UNDERGROUND ELECTRICAL UTILITY
	UGT UNDERGROUND TELEPHONE UTILITY
	G SITE GROUND
	G EXISTING SITE GROUND

2 TYPICAL DEVICE MOUNTING HEIGHTS

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
DATA OUTLETS	16" AFF
EXIT LIGHTS (WALL MOUNT)	16" ABOVE DOOR
EMERGENCY LIGHTS (WALL MOUNT)	96" AFF

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.

REV. NO.	DESCRIPTION	DATE

REVISIONS

2 POWER SYMBOLS

	CLASS 1/DIVISION III CONDUIT SEAL-OFF FITTING
	CONTROL STATION
	STOP-START STATION
	LOCK-OUT-STOP SWITCH
	LOCATED AT FIELD DEVICE LOCATED AT MAIN CONTROL PANEL LOCATED AT LOCAL CONTROL PANEL MOUNTED ON DOOR
	INDUSTRIAL BATTERY SET W/MOUNTING RACK
	ELECTRICAL DEVICE AND THE LETTERS INDICATE THE TYPE
	ELECTRICAL BUBBLE AND THE LETTERS INDICATE THE TYPE
	DELTA/WYE TRANSFORMER CONNECTION W/GROUND
	LIGHTNING ARRESTOR
	FUSE - VOLTAGE AS REQUIRED AND SIZE NOTED ON THE DRAWINGS. CL DENOTES CURRENT LIMITING TYPE. NUMBER INDICATES QUANTITY WHEN LESS THAN 3.
	PFD DENOTES PULL FUSE DISCONNECT TYPE
	MICROPROCESSOR BASED METERING DEVICE
	POWER RECEPT. WITH DISCONNECT-600V, 3 PHASE, 4 WIRE NUMBER DENOTES AMPERE RATING
	POWER RECEPT. 600V, 3 PHASE, 4 WIRE
	POWER ON-OFF SNAP SWITCH, 1PH, 120V AC, 20A S2-DENOTES, 2 POLE, 240 VOLTS, 20A
	PUSH-BUTTON STATION PUSH-BUTTON STATION WITH LOCK-OUT FEATURE
	SELECTOR SWITCH
	INDICATING LIGHT
	CONTROL STATION
	LOCAL-OFF-REMOTE SELECTOR SWITCH CONTROL STATION
	ATS-BI AUTOMATIC TRANSFER SWITCH -ATS, WITH SOLID STATE CONTROLS AND ACCESSORIES. -BI WHEN INDICATED DENOTES WITH BYPASS-ISOLATION SWITCH
	SUBMERSIBLE CABLES BY VENDOR
	POTENTIAL TRANSFORMER
	TRANSFORMER- SIZE AS NOTED ON THE THE DRAWINGS
	SHIELDED ISOLATION TRANSFORMER
	CABLE TRAY
	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.
	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.
	DRAWOUT FIXED MOUNTED POWER CIRCUIT BREAKER WITH RMS TYPE SOLID STATE TRIP PROGRAMMER. EO DENOTES ELECTRICALLY OPERATED.
	LOAD BREAK
	CIRCUIT BREAKER
	FUSE
	DISCONNECT SWITCH WITH FUSING WHERE NOTED
	STAND-ALONE MOTOR CONTROLLER WITH EXTERNAL DISCONNECT: UPPER LEFT NUMBER DENOTES NEMA FRAME SIZE. UPPER RIGHT NUMBERS DENOTE AMPERE TRIP AND FRAME RATINGS. LOWER LEFT NUMBER 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 TS2W TWO SPEED - DUAL WINDING RVSS REDUCED VOLTAGE SOFT STARTER RVAT REDUCED VOLTAGE AUTO TRANSFORMER VFD VARIABLE FREQUENCY DRIVE
	FULL-VOLTAGE NON-REVERSING 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 FVR FULL VOLTAGE REVERSIBLE TS1W TWO SPEED - SINGLE WINDING TS2W TWO SPEED - DUAL WINDING RVSS REDUCED VOLTAGE SOFT STARTER RVAT REDUCED VOLTAGE AUTO TRANSFORMER VFD VARIABLE FREQUENCY DRIVE
	VARIABLE FREQUENCY DRIVE 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 FVR FULL VOLTAGE REVERSIBLE TS1W TWO SPEED - SINGLE WINDING TS2W TWO SPEED - DUAL WINDING RVSS REDUCED VOLTAGE SOFT STARTER RVAT REDUCED VOLTAGE AUTO TRANSFORMER VFD VARIABLE FREQUENCY DRIVE
	ANSI/IEEE TYPE-52 AC POWER CIRCUIT BREAKER
	AC MOTOR (SINGLE PHASE/THREE PHASE)
	DC MOTOR
	SPD

3 INSTRUMENTATION SYMBOLS

	PHOTOCELL
	DEVICE LOCATED IN FIELD AT OR NEAR MOTOR
	DEVICE LOCATED IN CONTROL PANEL
	INDICATING LIGHT, PT-DENOTES PUSH TO TEST TYPE LETTER INDICATES LENS COLOR W-WHITE G-GREEN A-AMBER R-RED B-BLUE C-CLEAR
	SWITCH - TOGGLE OPEN
	MOMENTARY CONTACT PUSH BUTTON NORMALLY OPEN / NORMALLY CLOSED
	MUSHROOM HEAD MAINTAINED CONTACT PUSH/PULL BUTTON
	MOMENTARY LOCKOUT STOP PUSHBUTTON
	INSTRUMENTATION BUBBLE
	SWITCH - LIMIT HELD CLOSED / OPEN
	LIMIT SWITCH CLOSE / OPEN
	TEMPERATURE SWITCH CLOSE / OPEN
	FLOAT SWITCH CLOSE / OPEN
	PRESSURE SWITCH CLOSE / OPEN
	FLOW SWITCH CLOSE / OPEN
	VALVE LIMIT SWITCH (OPEN / CLOSED)
	TORQUE SWITCH, OPENS / CLOSSES ON RISING TORQUE
	NORMALLY OPEN / CLOSED CONTACT, NUMBER INDICATES RELAY.
	THERMALLY ACTUATED MOTOR OVERLOAD RELAY. LATCHES OPEN / CLOSED ON OVERLOAD
	TIMED CONTACT: NOTC NORMALLY OPENED CONTACT-TIMED CLOSED TIME DELAY AFTER COIL ENERGIZED NCTO NORMALLY CLOSED CONTACT-TIMED OPEN TIME DELAY AFTER COIL ENERGIZED NOTO NORMALLY OPENED CONTACT -TIMED OPEN TIME DELAY AFTER COIL DE-ENERGIZED NCTC NORMALLY CLOSED CONTACT-TIMED CLOSED TIME DELAY AFTER COIL DE-ENERGIZED
	CONTROL RELAY COIL DESIGNATION: CR CONTROL RELAY MX AUXILIARY RELAY TR TIMING RELAY AR ALARM RELAY RR READY RELAY
	SOLENOID VALVE
	MOTOR STARTER CONTACTOR COIL COIL DESIGNATION: M COIL S SLOW FT FAST F FORWARD R REVERSE 1S REDUCED VOLTAGE CONTACTOR COIL #1 2S REDUCED VOLTAGE CONTACTOR COIL #2 R RUN
	SPACE HEATER OR MOTOR SPACE HEATER
	SELECTOR SWITCH, 2 POSITION MAINTAINED CONTACT 3 POSITION MAINTAINED CONTACT (X INDICATES CONTACT CLOSED, O DENOTES CONTACT OPEN)
	MAINTAINED CONTACT PUSH BUTTON W/MECHANICAL INTERLOCK
	ELAPSED TIME METER
	CONTROL POWER TRANSFORMER
	CURRENT TRANSFORMER
	MOTOR OPERATED VALVE: MOD - MODULATING O/C - OPEN/CLOSE
	SOLENOID VALVE
	STROBE LIGHT
	H- HORN AV- STROBE/HORN COMBINATION



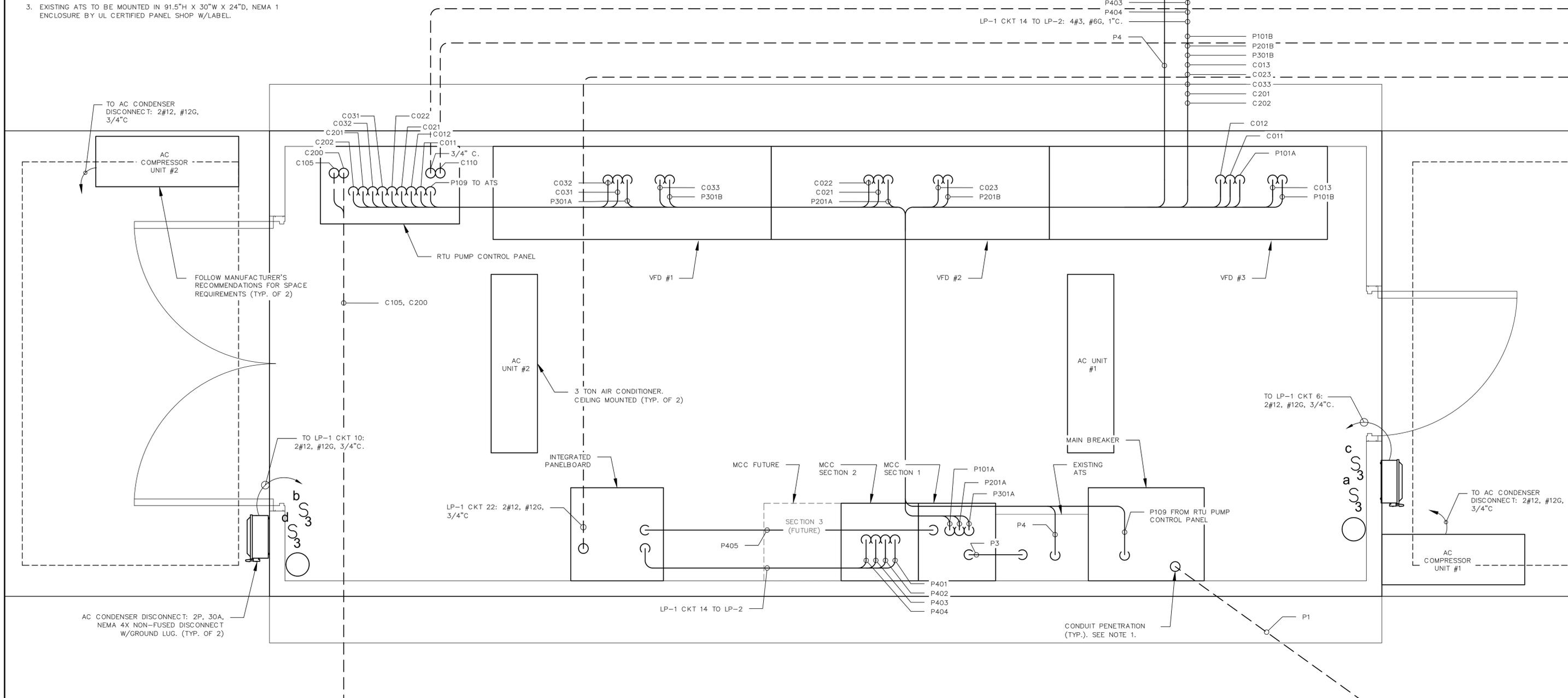
MLS-TIDEVUE ELECTRICAL REHABILITATION

ELECTRICAL SYMBOLS ELECTRICAL 1

PROJ. START DATE: 2021.MAR	SCALE: HORIZONTAL: TBD	E0.01
MCE PROJ. # 01024-0189	VERTICAL: TBD	
DRAWN: DS	REVISION: ----	
DESIGNED: SS		
CHECKED: MAC		
PROJ. MGR: AAH		
STATUS: ISSUED FOR BID		



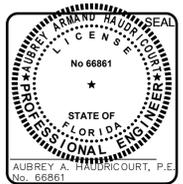
- NOTES:
1. CONTRACTOR TO CORE DRILL ALL CONDUIT PENETRATIONS THROUGH CONCRETE AND SEAL AFTER INSTALLATION WITH ECOFLEX PRODUCT OR EQUAL. DUCT SEAL NOT ALLOWED. SEE SHEET E1.09 FOR EQUIPMENT CUTOUT LOCATIONS.
 2. CABLE TRAY NOT SHOWN FOR CLARITY. SEE E1.05
 3. EXISTING ATS TO BE MOUNTED IN 91.5"H X 30"W X 24"D, NEMA 1 ENCLOSURE BY UL CERTIFIED PANEL SHOP W/LABEL.



ELECTRICAL BUILDING POWER PLAN
SCALE: 1"=1'-0"

REV. NO.	DESCRIPTION	DATE

REVISIONS

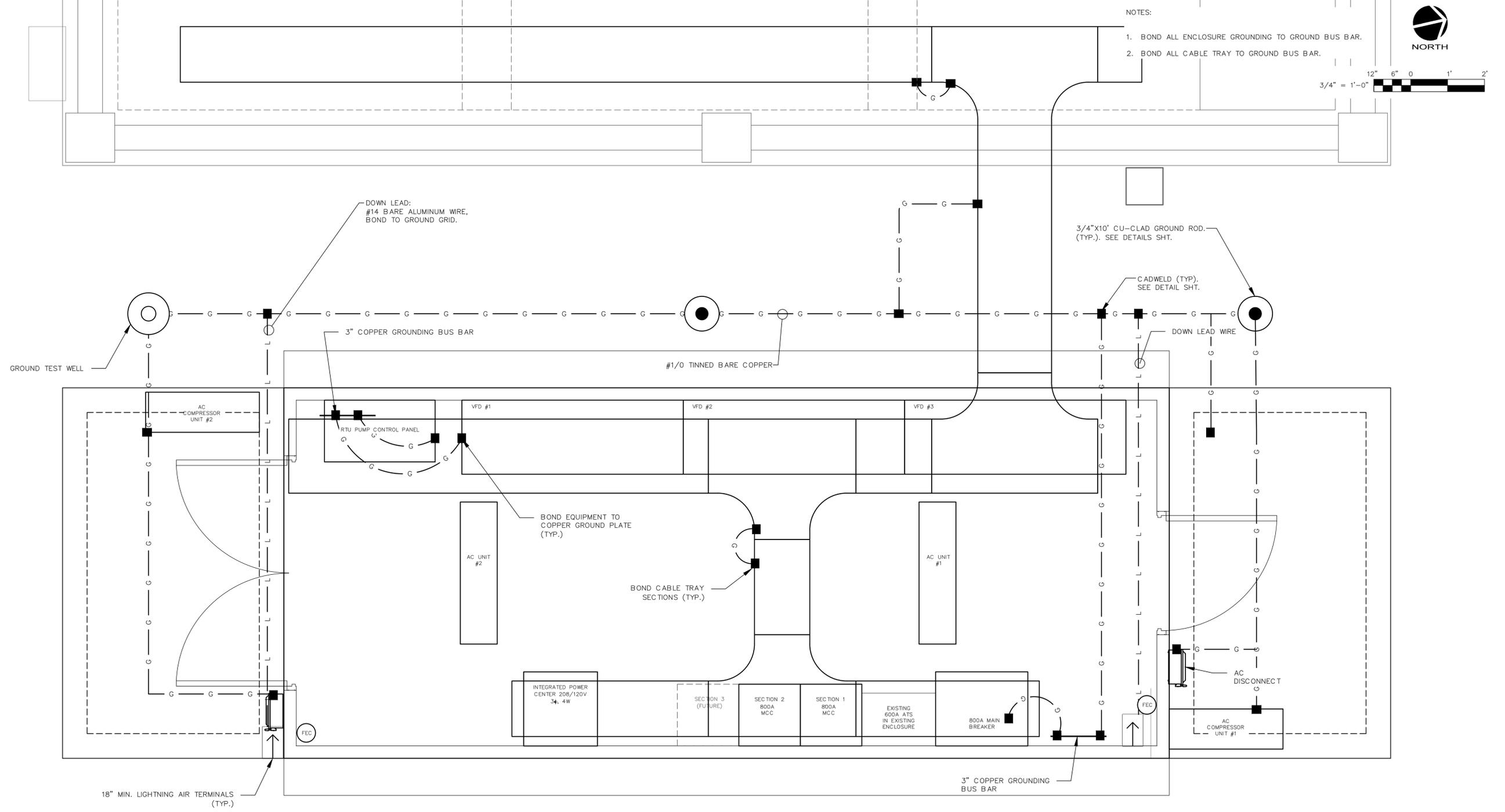


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MLS-TIDEVUE ELECTRICAL REHABILITATION
ELECTRICAL
ELECTRICAL BUILDING POWER PLAN

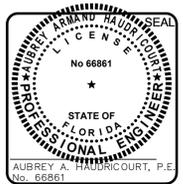
PROJ. START DATE: 2021.MAR	SCALE: 1"=1'	E1.05 DRAWING NUMBER
MCE PROJ. # 01024-0189	HORIZONTAL: 1"=1'	
DRAWN: DS	VERTICAL: 1"=1'	REVISION
DESIGNED: SS		
CHECKED: MAC		
PROJ. MGR: AAH		
STATUS: ISSUED FOR BID		



GROUNDING AND LIGHTNING PROTECTION PLAN
SCALE: 3/4"=1'-0"

REV. NO.	DESCRIPTION	DATE

REVISIONS



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MLS-TIDEVUE ELECTRICAL REHABILITATION

ELECTRICAL

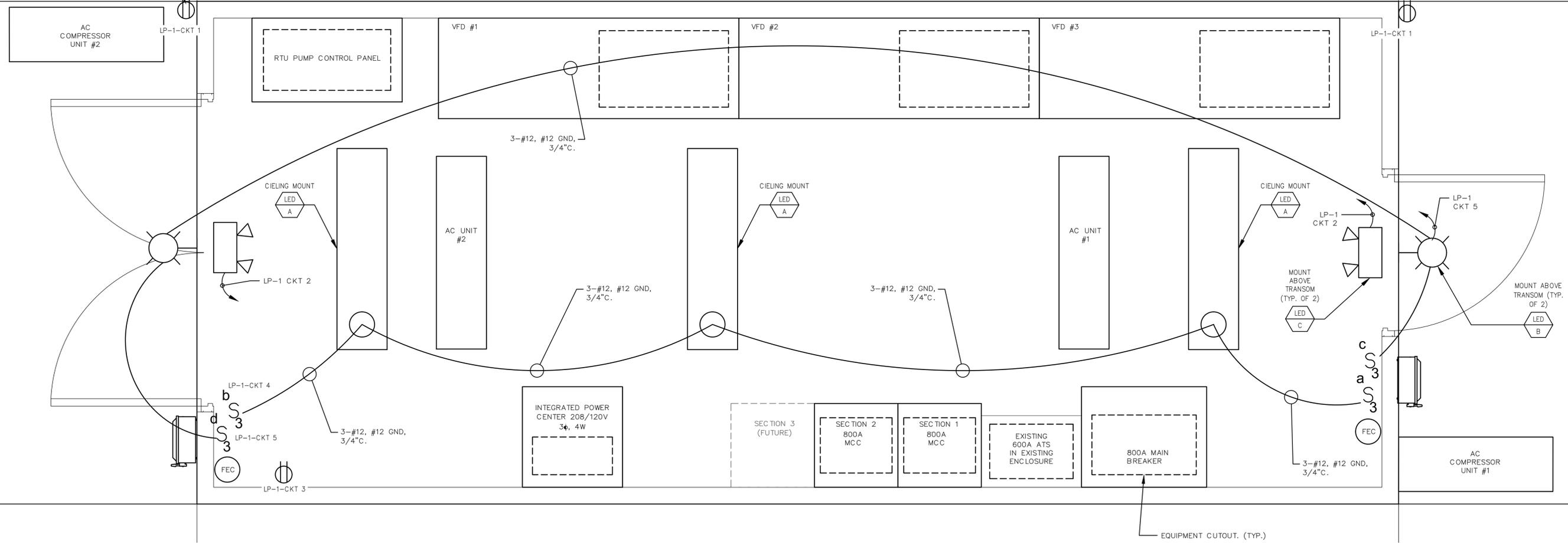
GROUNDING AND LIGHTNING PROTECTION PLAN

PROJ. START DATE: 2021.MAR	SCALE: 3/4"=1'	E1.07 DRAWING NUMBER
MCE PROJ. # 01024-0189	HORIZONTAL: 3/4"=1'	
DRAWN: DS	VERTICAL: ----	REVISION
DESIGNED: SS		
CHECKED: MAC		
PROJ. MGR.: AAH		
STATUS: ISSUED FOR BID		



1" = 1'-0"

GFCI IN WEATHERPROOF ENCLOSURE WITH INUSE COVER (TYP.)



EQUIPMENT CUTOFF. (TYP.)

LIGHTING SCHEDULE

LETTER	DESCRIPTION	LAMPS	REMARKS	SYMBOL
A	4' SURFACE MOUNT LED LUMINAIRE. ROLLED STEEL HOUSING. IMPACT MODIFIED LINEAR FACIATED REFRACTOR. INTEGRAL OCCUPANCY SENSOR.	LED MIN CRI 82, L90/60,000HRS, 39W, 4000K	LITHONIA LIGHTING MOD. WL4-40L-LP840-NES7-SC OR APPROVED EQUAL.	
B	LED OUTDOOR RATED WALL PACK. TYPE II/WIDE DISTRIBUTION. INTEGRAL BALLAST & PHOTOCCELL. FULL CUTOFF. DARK BRONZE.	20 LED 73W 4000K	LITHONIA LIGHTING DSXW2 LED, LSI INDUSTRIES XGBWM3, OR APPROVED ALTERNATE	
C	WALL MOUNT EMERGENCY EXIT LIGHT W/SIGN. INJECTION-MOLDED, FLAME-RETARDANT, HIGH-IMPACT, THERMOPLASTIC HOUSING. BATTERY BACKUP. TEST SWITCH FOR MANUAL ACTIVATION OF 30-SECOND DIAGNOSTIC TESTING. SELF DIAGNOSTIC TESTING EVERY 30 DAYS.	LED, RED LENS <1W, 120V	LITHONIA LIGHTING MOD. LHQM OR APPROVED EQUAL	

ELECTRICAL BUILDING LIGHTING PLAN

SCALE: 1"=1'-0"

REV. NO.	DESCRIPTION	DATE

REVISIONS



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MLS-TIDEVUE ELECTRICAL REHABILITATION

ELECTRICAL

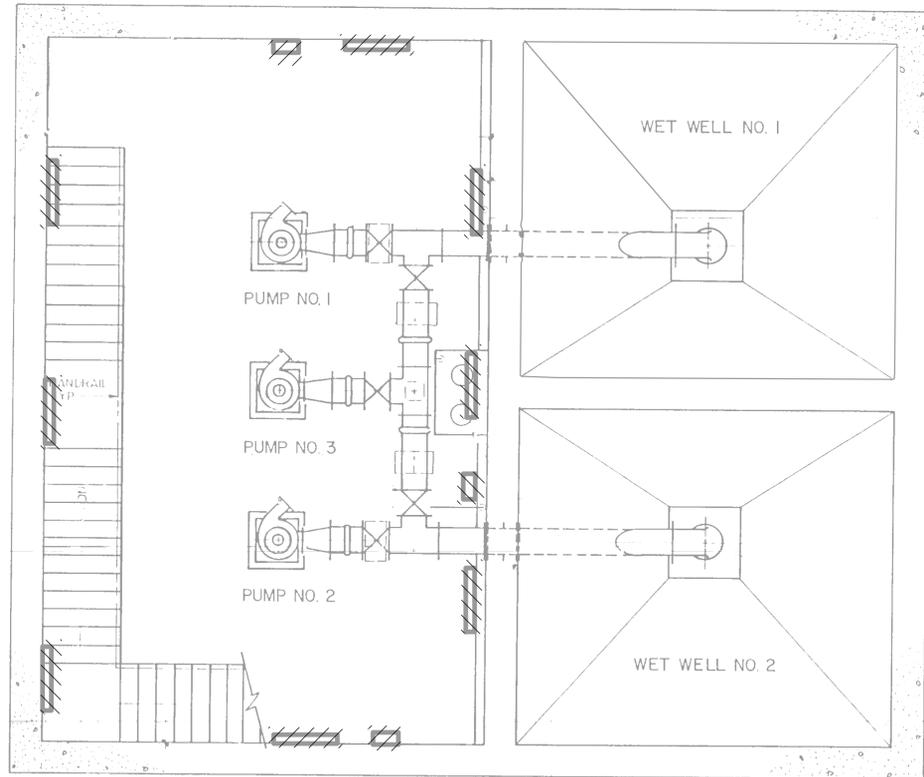
ELECTRICAL BUILDING LIGHTING PLAN

PROJ. START DATE: 2021.MAR
MCE PROJ. # 01024-0189
DRAWN DS
DESIGNED SS
CHECKED MAC
PROJ. MGR. AAH

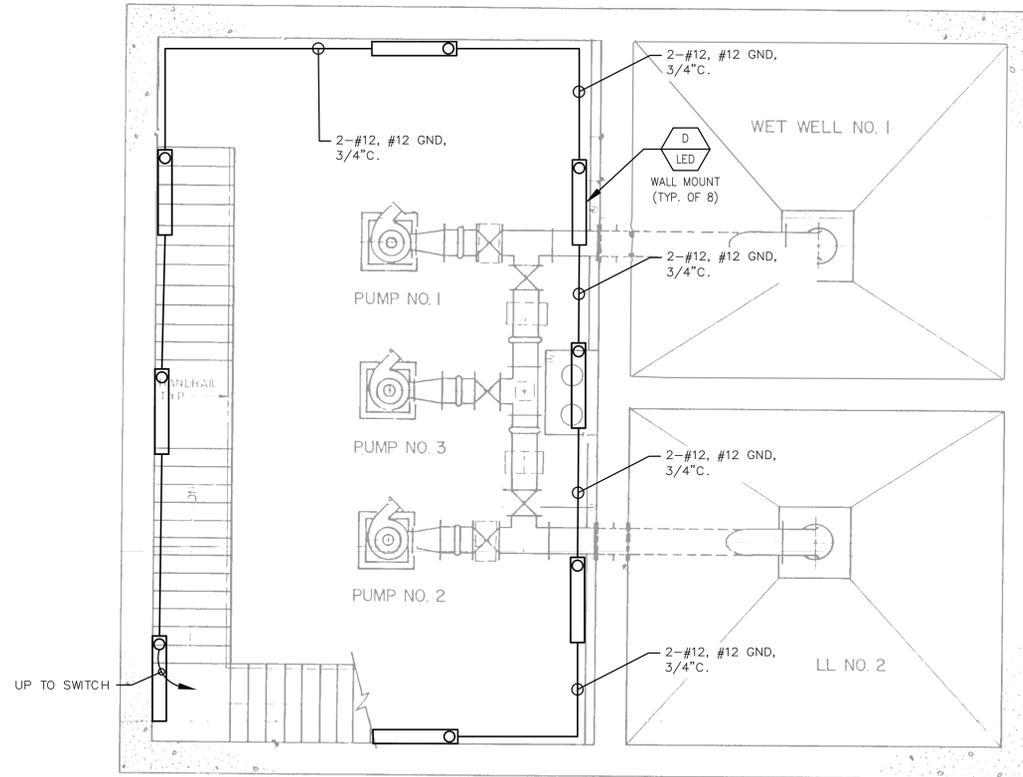
SCALE: HORIZONTAL: 1"=1'
VERTICAL: 1"=1'

E1.09
DRAWING NUMBER

STATUS: ISSUED FOR BID



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



DRY WELL LIGHTING PROPOSED 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 POLYCARBONATE LENS, CEILING MOUNT, 120V INPUT.	4' HAZARDOUS LINEAR LED, WARM TEMP. 4000K, 4000 Lm.	CROUSE-HINDS, NHLL-4-W2-4L-2/6-225	

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

REV. NO.	DESCRIPTION	DATE

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MLS-TIDEVUE ELECTRICAL REHABILITATION
ELECTRICAL
DRY WELL LIGHTING PLAN

PROJ. START DATE: 2021.MAR	SCALE	E1.10 DRAWING NUMBER
MCE PROJ. # 01024-0189	HORIZONTAL: AS SHOWN	
DRAWN DS	VERTICAL: TBD	
DESIGNED SS	REVISION	
CHECKED AAH	TBD	----
PROJ. MGR. AAH	TBD	----
STATUS:		ISSUED FOR BID

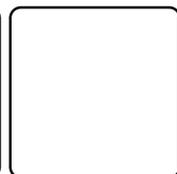
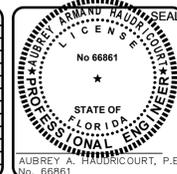
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD KVA	AMPS	POLES	KVA PER PHASE			POLES	AMPS	LOAD KVA	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
						A	B	C						
1	20	ELEC. BUILDING RECEPTACLES OUTSIDE	0.36	3.0	1	0.5			1	1.5	0.18	ELEC. BUILDING EMERG. EXIT LIGHT	20	2
3	20	ELEC. BUILDING RECEPTACLES INSIDE	0.72	6.0	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			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		2	15.4	1.6	ELEC. BUILDING AC OUTDOOR UNIT #2	25	10
15	20	SURGE PROTECTION DEVICE	0.1	0.8	3		6.1		3	50.0	6	PANEL LP-2	100	14
			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
25					1	0.0			1					26
27					1		0.0		1					28
29					1			0.0	1					30
31					1	0.0			1					32
33					1		0.0		1					34
35					1			0.0	1					36
37					1	0.0			1					38
39					1		0.0		1					40
41					1			0.0	1					42
PANEL LP-1 LOCATION MANATEE COUNTY BUILDING ELECTRICAL BUILDING NOTES: INTEGRATED PANELBOARD			TOTAL KVA	9.9	9.4	9.9	SERVICE CHARACTERISTICS VOLTS: 208Y/120 PHASE: 3 WIRE: 4			225	A MLO A MCB			
			GRAND CONNECTED TOTAL KVA	29.2						225	A MLO A MCB			

PANEL SCHEDULE LP-1
SCALE: NTS

CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD KVA	AMPS	POLES	KVA PER PHASE			POLES	AMPS	LOAD KVA	DESCRIPTION OF LOAD	TRIP AMPS	CKT NO.
						A	B	C						
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		1.6		2	2.4	0.25	WATER HEATER	20	2
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			1	5.0	0.6	LIGHTS - BASEMENT	20	8
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 (OFF)		
							1.0				1	OFF/SPARE	40	30
31					1	1.0			3	8.3	1	SIEMENS ODOR CONTROL	30	32
33					1		1.0				1			
35					1			1.0			1			
37					1	0.0			1					38
39					1		0.0		1					40
41					1			0.0	1					42
PANEL LP-2 LOCATION MANATEE COUNTY BUILDING ELECTRICAL BUILDING NOTES: INTEGRATED PANELBOARD			TOTAL KVA	6.7	6.0	6.0	SERVICE CHARACTERISTICS VOLTS: 208Y/120 PHASE: 3 WIRE: 4			225	A MLO A MCB			
			GRAND CONNECTED TOTAL KVA	18.6						225	A MLO A MCB			

PANEL SCHEDULE LP-2
SCALE: NTS

REV. NO.	DESCRIPTION	DATE



MLS-TIDEVUE ELECTRICAL REHABILITATION

ELECTRICAL
PANELBOARD SCHEDULES

PROJ. START DATE: 2021.MAR	SCALE
MCE PROJ. # 01024-0189	HORIZONTAL: N/A
DRAWN DS	VERTICAL: N/A
DESIGNED SS	REVISION
CHECKED MAC	
PROJ. MGR. AAH	

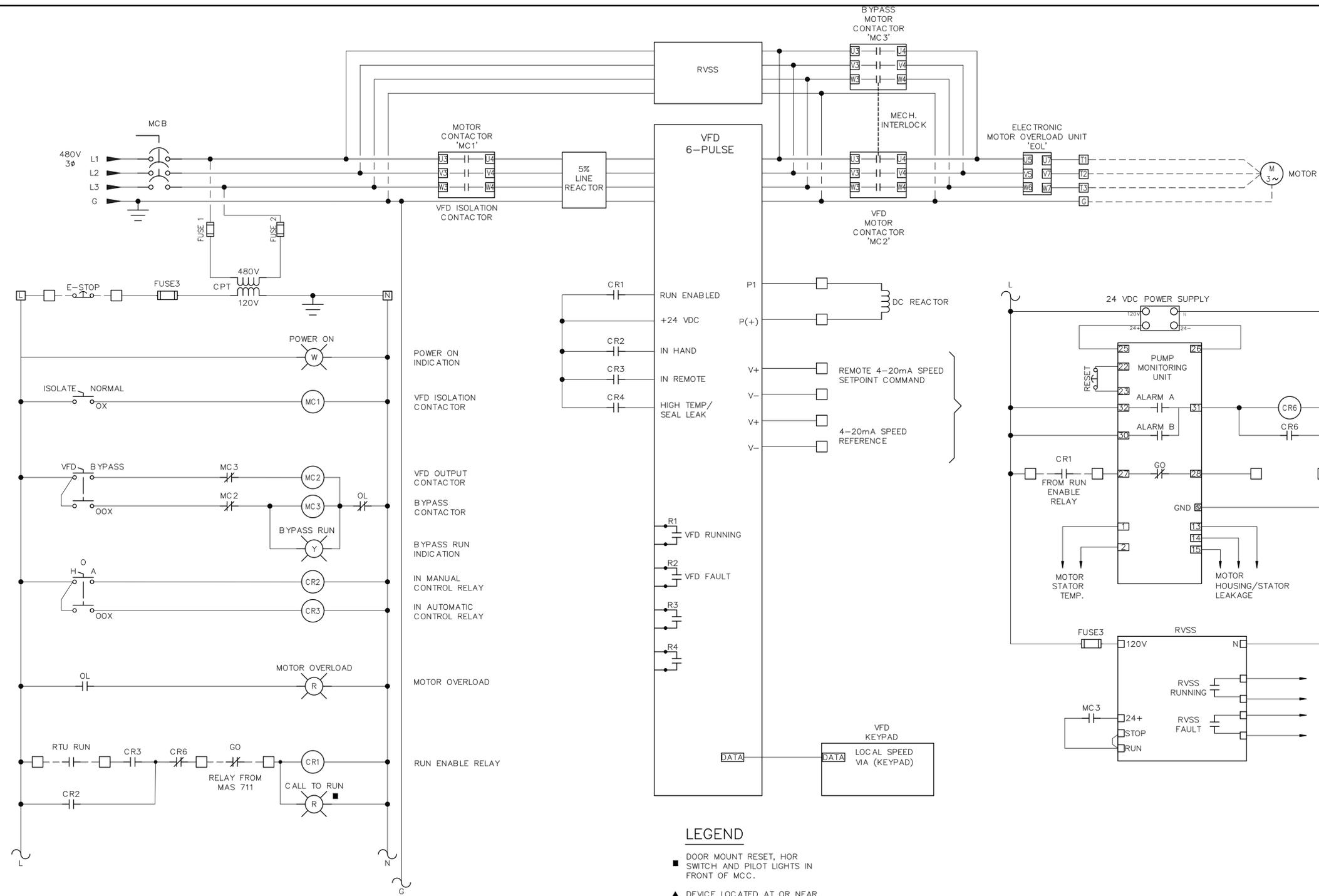
E1.12

DRAWING NUMBER

ISSUED FOR BID

NOTES:

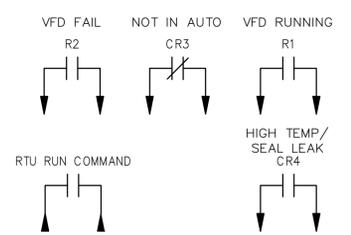
- EXISTING PUMP MONITORING RELAYS TO BE RELOCATED TO NEW VFD IN FIELD.



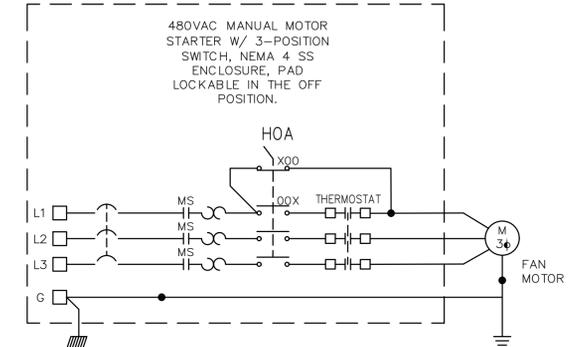
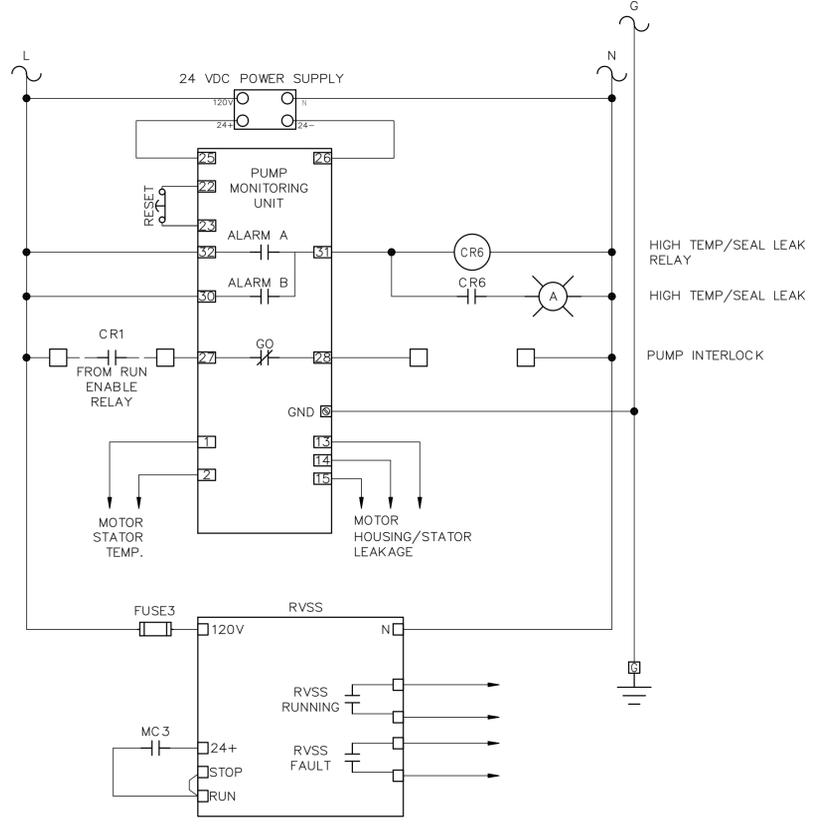
PUMP SCHEMATIC: PUMP#1, PUMP#2, PUMP#3
SCALE: NTS

LEGEND

- DOOR MOUNT RESET, HOR SWITCH AND PILOT LIGHTS IN FRONT OF MCC.
- ▲ DEVICE LOCATED AT OR NEAR MOTOR EQUIPMENT



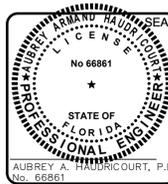
ALL STATUS & CONTROL SIGNALS COMMUNICATED BETWEEN VFD AND RTU VIA ETHERNET DATA HIGHWAY.



EXHAUST FAN SCHEMATIC
SCALE: NTS

TYPICAL FOR EXHAUST FANS

REV. NO.	DESCRIPTION	DATE

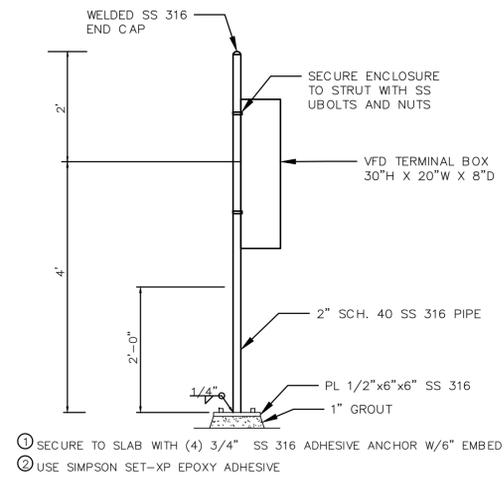


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1365 Hamlet Avenue
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www.mckimcreed.com



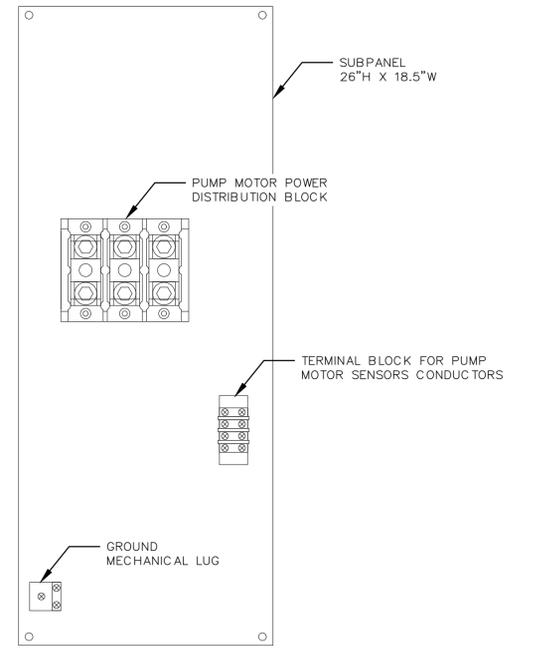
MLS-TIDEVUE ELECTRICAL REHABILITATION
ELECTRICAL
ELECTRICAL CONTROLS SCHEMATIC IS

PROJ. START DATE: 2021.MAR	SCALE: N/A	E1.13
MCE PROJ. # 01024-0189	HORIZONTAL: N/A	
DRAWN: DS	VERTICAL: N/A	REVISION: ----
DESIGNED: SS		
CHECKED: MAC		
PROJ. MGR: AAH		
STATUS: ISSUED FOR BID		



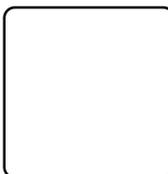
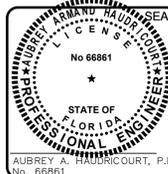
- ① SECURE TO SLAB WITH (4) 3/4" SS 316 ADHESIVE ANCHOR W/6" EMBED
- ② USE SIMPSON SET-XP EPOXY ADHESIVE

VFD TERMINAL BOX MOUNTING DETAIL
SCALE: NTS



VFD TERMINAL BOX SUBPANEL LAYOUT
SCALE: NTS

REV. NO.	DESCRIPTION	DATE



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MLS-TIDEVUE ELECTRICAL REHABILITATION

ELECTRICAL
ELECTRICAL DETAILS 2 OF 2

PROJ. START DATE: 2021.MAR	SCALE
MCE PROJ. # 01024-0189	HORIZONTAL: N/A
DRAWN DS	VERTICAL: -----
DESIGNED SS	REVISION
CHECKED MAC	
PROJ. MGR. AAH	
STATUS: -----	ISSUED FOR BID

E1.15
 DRAWING NUMBER

 REVISION

