

STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS
PREPARED FOR

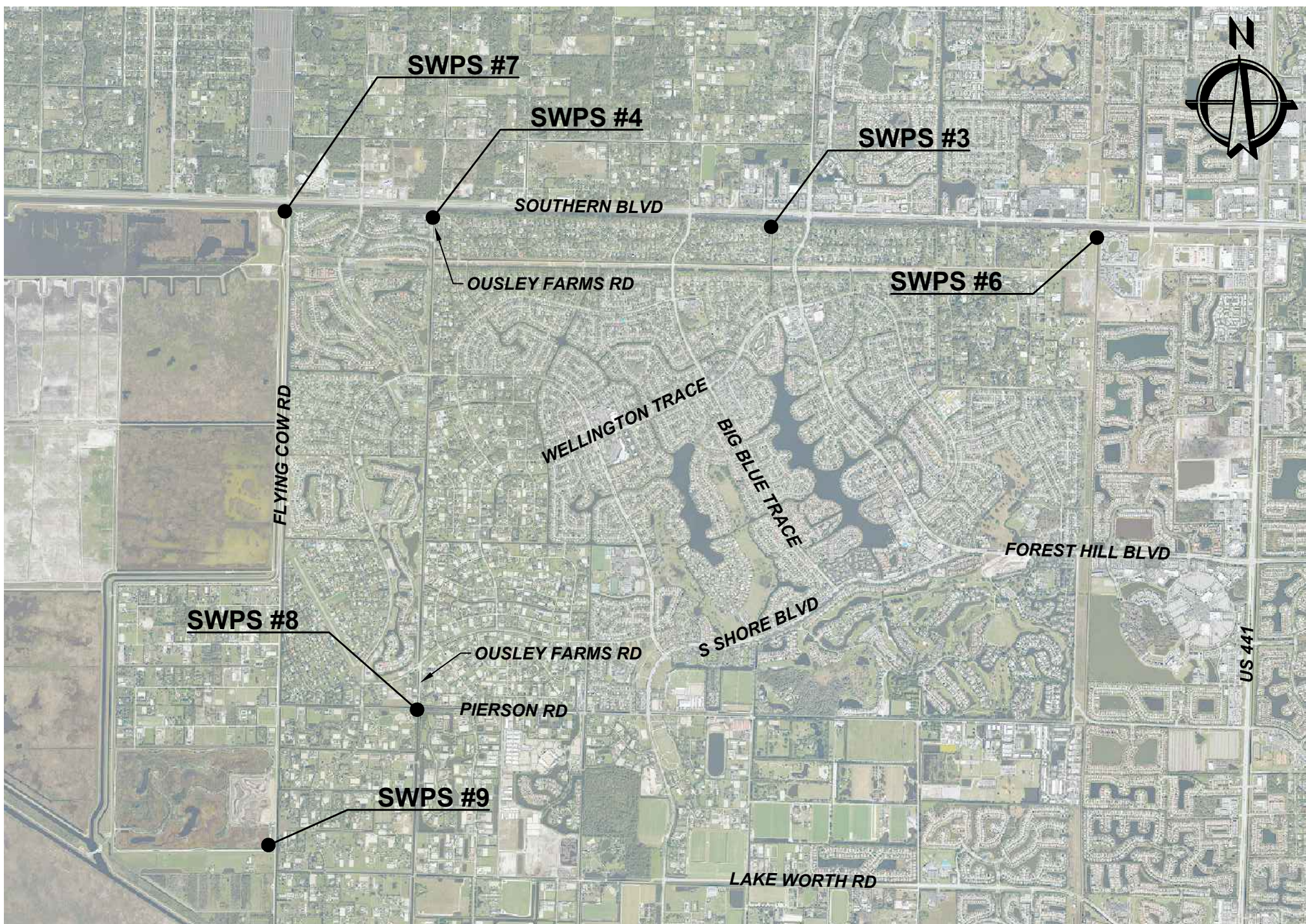


PALM BEACH COUNTY, FL
MAY 2026

VILLAGE COUNCIL
MICHAEL J. NAPOLEONE, MAYOR
MARIA S. ANTUNA, VICE MAYOR
AMANDA SILVESTRI, COUNCILWOMAN
STEPHEN A. LEVIN, COUNCILMAN
JOHNNY MEIER, COUNCILMAN

VILLAGE MANAGER
JIM BARNES

VILLAGE ENGINEER
JONATHAN REINSVOLD, P.E.



VICINITY MAP

N.T.S.

SECTION TOWNSHIP RANGE

PS 3: S33 T43S R41E	PS 7: S36 T43S R40E
PS 4: S31 T43S R41E	PS 8: S18 T44S R41E
PS 6: S35 T43S R41E	PS 9: S24 T44S R40E

SWPS: STORMWATER PUMP STATION

Always call 811 two full business days before you dig to
have underground utilities located and marked.



BID SUBMITTAL
MAY 2026

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TOTAL SHEETS: 65	

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PLOT DATE: May 15, 2026 - 4:21pm

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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SEAL
GARRYTT G. GRUBER
Florida P.E. No. 60721

Date

MOCK•ROOS
CONSULTING ENGINEERS

5720 Corporate Way, West Palm Beach, Florida 33407
(561) 683-3113, www.MockRoos.com

Florida Reg. No. 48

Florida L.B. No. 48

STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

COVER

MAY 2026

G-01

CADD File: F:\well\psp1\CADD\DWG\PS1\G001_G002 - LOCATION MAP.dwg
PLOT DATE: May 05, 2026 - 9:32pm

Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision

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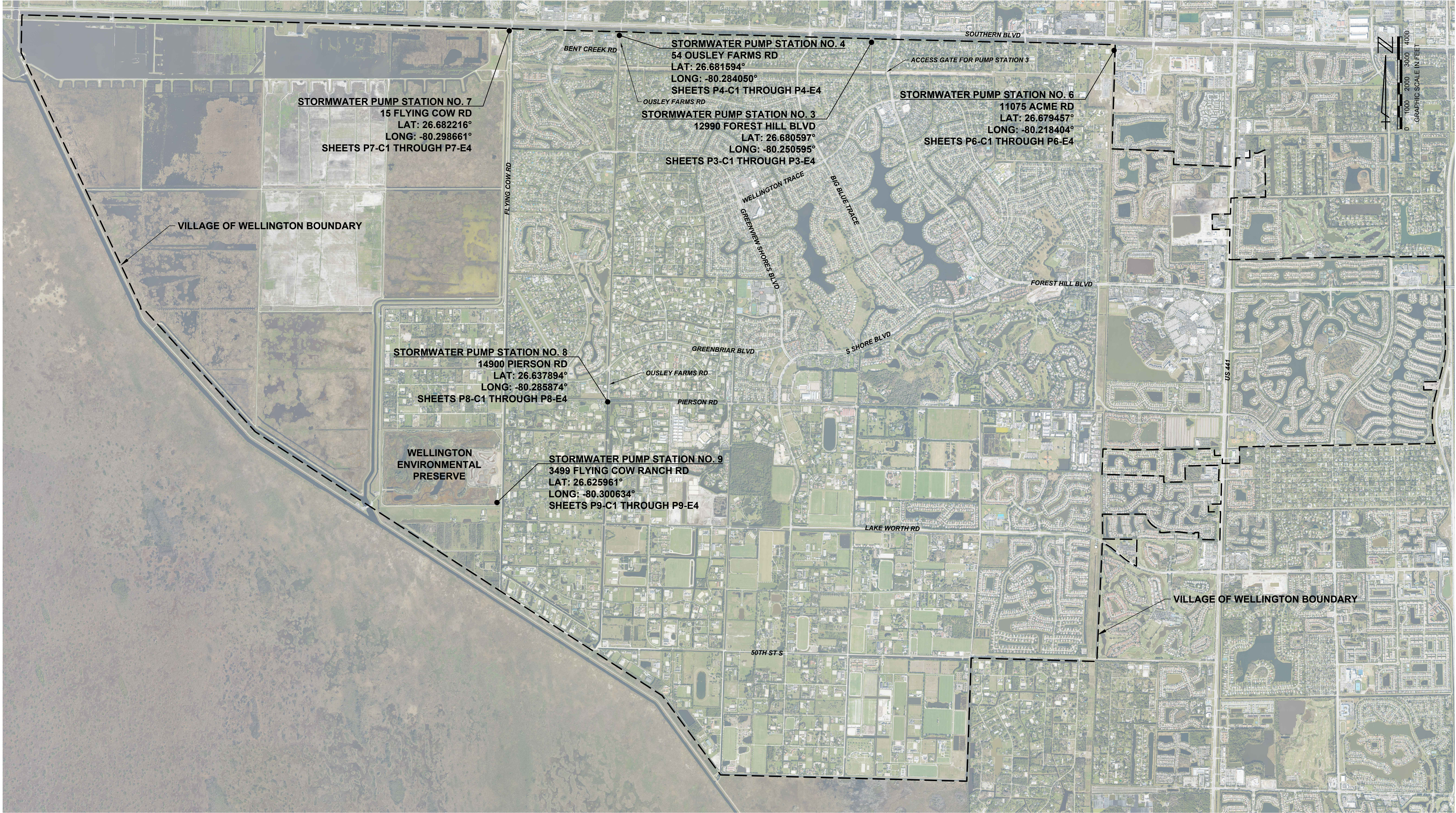
SEAL
GARRYTT G. GRUBER Florida P.E. No. 60721
Date

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STORMWATER PUMP STATIONS NOS. 3, 4, 6, 7, 8, AND 9 IMPROVEMENTS
VILLAGE OF WELLINGTON

KEY SHEET

MAY 2026
G-02



CADD File: F:\well\pssp1\CADD\DWG\PSP1CS01_G002 - LOCATION MAP.dwg
PLOT DATE: May 05, 2026 - 9:32pm

Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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SEAL
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STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

GENERAL NOTES

MAY 2026

G-03

GENERAL NOTES

- SOURCE AND DATE OF AERIAL PHOTOGRAPHY: PALM BEACH COUNTY MULTI-RESOLUTION SEAMLESS IMAGE DATABASE IMAGERY DATED 2023.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SITE SAFETY ASSOCIATED WITH THE WORK UNDER THIS PROJECT AND FOR COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL HEALTH AND SAFETY LAWS, CODES, REGULATIONS, AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THOSE CURRENTLY MANDATED BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
- MEASUREMENTS ARE BASED ON FIELD DATA TAKEN ON NOVEMBER 20TH AND 21ST, 2025, AS WELL AS DECEMBER 16TH, 2025. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO ORDERING MATERIALS.
- ALL REFERENCES REGARDING DESIGN CRITERIA BY OUTSIDE SOURCES OR AGENCIES SHALL BE PER LATEST PRINTED/POSTED EDITION AT TIME OF BIDDING, UNLESS OTHERWISE NOTED.
- ALL WORK SHALL BE OPEN AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF THE OWNER, INVOLVED UTILITY COMPANIES, PROJECT ENGINEER, AND REGULATORY AGENCIES.
- THE CONTRACTOR SHALL COORDINATE WITH THE NECESSARY UTILITY COMPANIES AND SUNSHINE STATE ONE CALL (800-432-4770) FOR ALL LOCATES A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL LOCATIONS AND ELEVATIONS SHOWN FOR SURFACE AND SUBSURFACE STRUCTURES, PIPING, ETC., ARE BASED ON THE BEST AVAILABLE INFORMATION. WHILE EVERY ATTEMPT HAS BEEN MADE TO PROVIDE ACCURATE DATA, THE CONTRACTOR SHALL CONSIDER ALL LOCATIONS AND ELEVATIONS APPROXIMATE IN NATURE. PRIOR TO THE START OF CONSTRUCTION AND/OR ORDERING OF ANY MATERIALS OR FABRICATED ITEMS, THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATIONS AND ELEVATIONS. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF "OTHER" STRUCTURES, UTILITIES, ETC., NOT SHOWN ON THE DRAWINGS EXIST WITHIN THE AREA OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AS-BUILT INFORMATION AND WRITTEN NOTIFICATION OF ALL CONFLICTS WITH THE PROPOSED CONSTRUCTION TO THE OWNER. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK UNTIL ALL CONFLICTS HAVE BEEN RESOLVED.
- PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH CHAPTER 556 OF THE FLORIDA STATUTES: THE UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVAL, DISPOSAL, ABANDONMENT, AND RELOCATIONS NECESSARY TO COMPLETE THE WORK WHETHER SHOWN ON THE DRAWINGS OR NOT. COORDINATE RELOCATIONS WITH THE NECESSARY UTILITY COMPANIES.
- CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY ACTIVITIES INVOLVING CONSTRUCTION, STAGING AREAS, AND ACCESS ROADS IN KIND. ALL DISTURBED AREAS NOT PAVED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE SODDED WITH BAHIA.
- ALL BOLTS, NUTS, WASHER, ETC. AND MISCELLANEOUS HARDWARE SHALL BE 316 STAINLESS STEEL, UNLESS OTHERWISE INDICATED.
- WRITTEN DIMENSIONS HAVE PREFERENCE OVER SCALED DIMENSIONS.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ESTIMATING PROPERLY THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK. PRIOR TO BIDDING THE PROJECT, AS WELL AS AGAIN PRIOR TO COMMENCEMENT OF CONSTRUCTION, CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING STEPS REASONABLY NECESSARY TO ASCERTAIN THE NATURE AND LOCATION OF THE WORK, AND INVESTIGATE AND SATISFY ONESELF AS TO THE GENERAL AND LOCAL CONDITIONS WHICH MAY AFFECT ITS COST, PROGRESS, PERFORMANCE OR SUCCESSFUL FURNISHING OF THE WORK. FURTHER, THE CONTRACTOR IS SOLELY RESPONSIBLE TO MAKE OR OBTAIN SUCH PROJECT SPECIFIC EXAMINATIONS, INVESTIGATIONS, EXPLORATIONS, TESTS AND STUDIES AND OBTAIN ANY ADDITIONAL INFORMATION AND DATA WHICH PERTAIN TO THE PHYSICAL CONDITIONS (SURFACE, SUBSURFACE AND UNDERGROUND FACILITIES) AT OR CONTIGUOUS TO THE PROJECT SITE OR OTHERWISE DETERMINED BY THE CONTRACTOR WHICH MAY AFFECT ITS COST, PROGRESS, PERFORMANCE OR SUCCESSFUL FURNISHING OF THE WORK. OWNER SHALL NOT BE RESPONSIBLE FOR ANY CONCLUSIONS OR INTERPRETATIONS MADE BY THE CONTRACTOR BASED ON THE INFORMATION MADE AVAILABLE BY THE OWNER.
- CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK COMPETENTLY AND EFFICIENTLY, DEVOTING SUCH ATTENTION THERETO AND APPLYING SUCH SKILLS AND EXPERTISE AS MAY BE NECESSARY TO PERFORM THE WORK IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS. ENGINEER'S REPRESENTATIVE MAY PERIODICALLY OBSERVE THE PROGRESS AND THE QUALITY OF THE EXECUTED WORK, HOWEVER, THESE OBSERVATIONS ARE FOR THE SOLE BENEFIT OF THE OWNER AND DO NOT RELIEVE THE CONTRACTOR OF ITS RESPONSIBILITIES.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE TO SEE THAT THE FINISHED WORK COMPLIES ACCURATELY WITH THE SPECIFICATIONS AND DRAWINGS.
- THE CONTRACTOR SHALL CAREFULLY REVIEW ALL SUBMITTALS PRIOR TO SUBMISSION TO THE ENGINEER. THE CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL FIELD MEASUREMENTS. REVIEW BY THE ENGINEER WILL BE ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND FOR COMPLIANCE WITH THE INFORMATION GIVEN IN THE SPECIFICATIONS AND DRAWINGS. ENGINEER'S REVIEW WILL NOT EXTEND TO MEANS, METHODS, SEQUENCES, TECHNIQUES OR PROCEDURES OF CONSTRUCTION, OR TO SAFETY PRECAUTIONS OR PROGRAMS INCIDENT THERETO.

SEQUENCE OF CONSTRUCTION NOTES:

- ANY CONSTRUCTION SEQUENCE SUGGESTED IN THE CONTRACT DOCUMENTS OR OTHERWISE PROVIDED BY THE ENGINEER OR OWNER IS INTENDED TO BE A GUIDE TO THE CONTRACTOR AS A MEANS OF PROGRESSING THE WORK WITH A MINIMUM INTERRUPTION OF SERVICE TO THE OWNER.
- THIS SUGGESTED SEQUENCE OF CONSTRUCTION IS BASED ON THE ANTICIPATED DELIVERY TIMELINE OF MATERIALS BASED ON COORDINATION WITH MANUFACTURES DURING THE DESIGN OF THE PROJECT. THE CONTRACTOR SHALL RELY ON THEIR OWN MEANS AND METHODS, DELIVERY TIME FRAMES, AND SCHEDULE TO PREPARE A PROPOSED SEQUENCE OF CONSTRUCTION THAT WILL BE SUBMITTED TO THE VILAGE FOR REVIEW AND ACCEPTANCE PRIOR TO BEGINNING WORK ONSITE. CONTRACTOR SHALL IDENTIFY LONG LEAD ITEMS AND CRITICAL PATH ITEMS AND COORDINATE TO HAVE THE RELEASE OF THESE ITEMS EXPEDITED.
- THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE AND PROVIDE A PHASING AND TEMPORARY FACILITY PLAN TO THE ENGINEER WHICH WILL INCLUDE COORDINATION WITH THE OPERATION OF THE OWNERS FACILITIES AND THE COORDINATING OF THE VARIOUS ELEMENTS OF WORK. THESE SUBMITTALS WILL BE REVIEWED FOR APPROVAL BASED ON MINIMIZING THE INTERRUPTION OF SERVICE TO THE OWNER AND THE PROTECTION OF THE EXISTING AND NEW IMPROVEMENTS.
- THE CONTRACTOR SHALL COORDINATE WITH THE VILLAGE OF WELLINGTON PRECONSTRUCTION AND POST CONSTRUCTION START UP OF THE EQUIPMENT OF THE EXISTING AND/OR PROPOSED EQUIPMENT.

CONTRACTOR'S RESPONSIBILITIES AND REQUIREMENTS:

- PUMP STATION OPERATION AND FLOOD PROTECTION SHALL REMAIN THE RESPONSIBILITY OF THE VILLAGE. IT IS UNDERSTOOD THAT THE VILLAGE WILL NOT HAVE COMPLETE CONTROL OVER ALL EQUIPMENT DURING THE REHABILITATION OF THE PUMP STATION(S) , HOWEVER THE VILLAGE SHALL CONTINUE COORDINATING AND CHECKING THE OPERATION OF THE STATION(S).
- IF THE CONTRACTOR INTENDS TO WORK ON MULTIPLE STATIONS AT ONCE, THE VILLAGE REQUIRES THE CONTRACTOR TO NOT HAVE MORE THEN ONE STATION INOPERABLE AT ONE TIME.
- STAGING – COORDINATE WITH THE VILLAGE FOR STAGING AND ALLOWABLE WORK AREAS DURING CONSTRUCTION OF THE PROJECT. STAGING SHALL NOT IMPACT OR DISRUPT OPERATIONS OF THE STATION.
- ACCESS – MAINTAIN ACCESS FOR THE VILLAGE TO OPERATE THE STATION AT ALL TIMES. VILLAGE STAFF TO UNLOCK AND SECURE EACH LOCATION AT THE BEGINNING AND END OF EACH DAY.
- SHUT DOWNS – REQUEST APPROVAL FROM THE VILLAGE 48-HOURS PRIOR TO TAKING THE STATION OUT OF OPERATION FOR CONNECTIONS AND SWITCHING OVER POWER.
- PUMP STATION MANAGEMENT
 - PUMP STATION #3: MAINTAIN A MINIMUM OF 60,000 GALLONS PER MINUTE FLOW RATE, (2) TWO MAIN PUMPS (60,000 GPM/EACH) AND (1) ONE IRRIGATION PUMP (25,000 GPM/EACH), ANY MODIFICATIONS TO THE PUMPS, CONTROLS, AND/OR WIRING MUST BE REINSTALLED, TESTED, AND ACCEPTED BY THE VILLAGE.
 - PUMP STATION #4: MAINTAIN A MINIMUM OF 60,000 GALLONS PER MINUTE FLOW RATE, (2) TWO MAIN PUMPS (60,000 GPM/EACH) AND (1) ONE IRRIGATION PUMP (25,000 GPM/EACH), ANY MODIFICATIONS TO THE PUMPS, CONTROLS, AND/OR WIRING MUST BE REINSTALLED, TESTED, AND ACCEPTED BY THE VILLAGE.
 - PUMP STATION #6: MAINTAIN A MINIMUM OF 62,000 GALLONS PER MINUTE FLOW RATE, (2) TWO MAIN PUMPS (62,000 GPM/EACH), ANY MODIFICATIONS TO THE PUMPS, CONTROLS, AND/OR WIRING MUST BE REINSTALLED, TESTED, AND ACCEPTED BY THE VILLAGE.
 - PUMP STATION #7: MAINTAIN A MINIMUM OF 50,000 GALLONS PER MINUTE FLOW RATE, (3) THREE MAIN PUMPS (50,000 GPM/EACH), ANY MODIFICATIONS TO THE PUMPS, CONTROLS, AND/OR WIRING MUST BE REINSTALLED, TESTED, AND ACCEPTED BY THE VILLAGE.
 - PUMP STATION #8: MAINTAIN A MINIMUM OF 60,000 GALLONS PER MINUTE FLOW RATE, (2) TWO MAIN PUMPS (60,000 GPM/EACH), ANY MODIFICATIONS TO THE PUMPS, CONTROLS, AND/OR WIRING MUST BE REINSTALLED, TESTED, AND ACCEPTED BY THE VILLAGE.
 - PUMP STATION #9: MAINTAIN A MINIMUM OF 45,000 GALLONS PER MINUTE FLOW RATE, (2) TWO MAIN PUMPS (45,000 GPM/EACH), ANY MODIFICATIONS TO THE PUMPS, CONTROLS, AND/OR WIRING MUST BE REINSTALLED, TESTED, AND ACCEPTED BY THE VILLAGE.
- BACK-UP POWER – PROVIDE A TEMPORARY/PORTABLE BACK-UP GENERATOR TO MAINTAIN A REDUNDANT POWER SOURCE AT ALL TIMES DURING CONSTRUCTION. IF A TEMPORARY GENERATOR IS PROVIDED, IT SHALL HAVE AN INTEGRATED 500 GALLON FUEL TANK THAT IS TO BE PROVIDED FULL BY THE CONTRACTOR AND WILL BE REFILLED BY THE VILLAGE DURING CONSTRUCTION AND RETURNED TO THE CONTRACTOR AT THE END OF THE PROJECT FULL BY THE VILLAGE. CONTRACTOR SHALL PROVIDE ITS OWN MEANS OF TEMPORARY POWER FOR CONSTRUCTION AND SHALL NOT RELY/USE THE GENERATOR FURNISHED AS A REDUNDANT POWER SOURCE.
- EQUIPMENT AND CONTROLS – RELOCATE/PROVIDE ANY AND ALL TEMPORARY EQUIPMENT AND CONTROLS NECESSARY FOR THE VILLAGE TO MAINTAIN THE AUTOMATED OPERATION AND MONITORING OF THE PUMP STATION AT ALL TIMES. AT A MINIMUM, THE VILLAGE REQUESTS THAT THE STATION BE OPERATIONAL AT THE END OF EACH DAY.
- POWER AND FUEL – CONTRACTOR SHALL PAY FOR POWER AND PROVIDE FUEL FOR CONTRACTOR'S TESTING AND START-UP. VILLAGE WILL PAY FOR POWER AND PROVIDE FUEL FOR STORMWATER OPERATION OF THE STATION, INCLUDING FUEL FOR THE TEMPORARY GENERATOR.

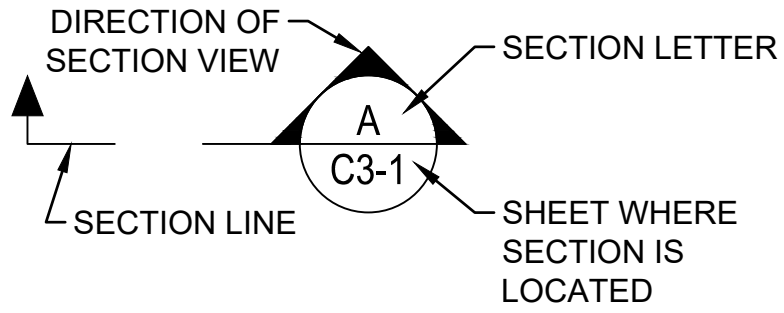
SUGGESTED GENERAL SEQUENCE OF CONSTRUCTION:

- PREPARE A PRE-CONSTRUCTION VIDEO AND PERFORM A PUMP STATION START-UP WITH THE VILLAGE. CONFIRM THE CONDITION OF THE EXISTING EQUIPMENT, RECORD CURRENT EQUIPMENT SETTINGS (IE, FLOAT ELEVATIONS, OPERATIONAL SETTINGS) AND THE OPERATING CONDITION OF THE EXISTING STATION. IDENTIFY EQUIPMENT THE VILLAGE SHALL UPGRADE/REPAIR TO MAINTAIN FLOOD PROTECTION.
- RELOCATE EXISTING EQUIPMENT, FURNISH AND INSTALL TEMPORARY FACILITIES, EQUIPMENT, CONTROLS, ETC... AS NECESSARY TO MAINTAIN PUMP STATION OPERATION DURING THE REHABILITATION OF THE STATION.
- BEGIN MECHANICAL AND ELECTRICAL WORK.
- WITH WRITTEN APPROVAL FROM THE VILLAGE, BEGIN DEMOLITION OF EXISTING FACILITIES THAT ARE TO BE REMOVED/MODIFIED. CONTRACTOR TO COORDINATE WITH VILLAGE ON ITEMS TO BE SALVAGED.
- COMPLETE INSTALLATION OF PROPOSED MECHANICAL AND ELECTRICAL UPGRADES.
- TEST EACH COMPONENT TO CONFIRM ACCEPTABLE OPERATION PRIOR TO MOVING TO THE NEXT COMPONENT.
- COMPLETE ANY REMAINING SITE WORK.
- REQUEST FOR SUBSTANTIAL COMPLETION AND SCHEDULE THE PUMP STATION START-UP, TESTING, AND TRAINING WITH THE VILLAGE.
- COMPLETE THE SUBSTANTIAL COMPLETION PUNCHLIST ITEMS AND REQUEST FINAL ACCEPTANCE FROM THE VILLAGE.

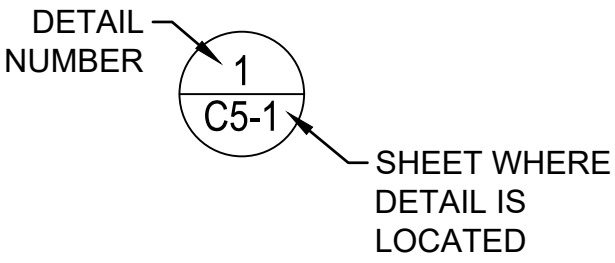
LEGEND

"	INCHES
'	FEET
ACME	ACME IMPROVEMENT DISTRICT
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION
ATS	AUTOMATIC TRANSFER SWITCH
BLVD	BOULEVARD
CCTV	CLOSED CIRCUIT TELEVISION
CFM	CUBIC FEET PER MINUTE
CT	COURT
E	EAST
EX	EXISTING
EXIST	EXISTING
FT	FEET
FL	FLORIDA
FLA	FULL LOAD AMPS
FRPM	FAN REVOLUTIONS PER MINUTE
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HVHZ	HIGH VELOCITY HURRICANE ZONE
IN	INCHES
LAT	LATITUDE
LB'S	LEFT BACK CONDUIT BODIES
LONG	LONGITUDE
MAIN	MAIN BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUG ONLY
N	NORTH
NGVD29	NATIONAL GEODETIC VERTICAL DATUM OF 1929
NO.	NUMBER
NOA	NOTICE OF ACCEPTANCE
NTS	NOT TO SCALE
ΔP	PRESSURE DROP
PH	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PROP	PROPOSED
PSCP	PUMP STATION CONTROL PANEL
RD	ROAD
S	SOUTH
SFWMD	SOUTH FLORIDA WATER MANAGEMENT DISTRICT
SP	STATIC PRESSURE
ST	STREET
TYP	TYPICAL
VFD	VARIABLE FREQUENCY DRIVE
W	WEST

CIVIL SECTION VIEW, CALL OUT SYMBOLS



CIVIL DETAIL, CALL OUT SYMBOLS



CADD File: \\10.1.10.26\caw_dropbox\JOBS\68-mock-roos\256815 Village of Wellington Phase 1 pump station improvements\DRAWINGS\G-04 ELECTRICAL NOTES & LEGEND.dwg
PLOT DATE: May 04, 2026 - 11:41 am
Bar is equal to one inch on original drawing

GENERAL ELECTRICAL NOTES

1. **READ THE SPECIFICATIONS**
REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. THERE ARE REQUIREMENTS NOTED IN THE SPECIFICATIONS WHICH ARE NOT INDICATED ON THE DRAWINGS. MEET ALL NEC AND LOCAL CODE REQUIREMENTS.

2. **SCHEMATIC NATURE**
PLAN VIEWS ARE SCHEMATIC IN NATURE AND MEANT TO SHOW THE SCHEMATIC ARRANGEMENT OF EQUIPMENT AND CONDUIT.

3. **APPROVED SHOP DRAWINGS**
USE APPROVED SHOP DRAWINGS FOR LAY OUT OF EQUIPMENT. THE CONTRACT DOCUMENTS WILL VARY FROM THE SHOP DRAWINGS. INFORM THE ENGINEER IMMEDIATELY IF THERE ARE LAY OUT ISSUES OR INADEQUATE SPACE FOR EQUIPMENT OR CLEARANCES. LAND CONDUITS IN OPENINGS OF ENCLOSURES PER THE APPROVED SHOP DRAWINGS, DO NOT USE THE CONTRACT DRAWINGS.

4. **CLEARANCES**
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MEET N.E.C. CLEARANCES ABOUT EQUIPMENT.

5. **ROUTING**
CONDUIT ROUTING IS SCHEMATIC IN NATURE. CONDUIT ROUTING IS SHOWN FOR CLARITY ON THE CONTRACT DRAWINGS. ROUTE CONDUITS AS MAY BE REQUIRED, PROVIDE PULL BOXES AS REQUIRED BY CODE.

6. **JUNCTION BOXES**
PROVIDE ADDITIONAL BOXES AS MAY BE REQUIRED. PROVIDE NEMA 4X OUTSIDE.

7. **CONDUCTORS**
CONDUCTORS SHALL BE COPPER STRANDED TYPE XHHW-2 WITH 75°C RISE INSULATION.

8. **FUTURE FACILITIES**
WHERE FUTURE FACILITIES ARE INDICATED. CONDUIT ROUTING SHALL ACCOUNT FOR SUCH FACILITIES.

9. **RESPONSIBILITIES**
BIDDERS, SUPPLIERS, EQUIPMENT VENDORS, GENERAL CONTRACTOR, SUB CONTRACTORS AND OTHER SIMILAR ENTITIES ARE REQUIRED TO READ ALL THE CONTRACT DOCUMENTS INCLUDING DRAWINGS AND SPECIFICATIONS.
10. **HOME RUNS**
CONTRACTOR SHALL COORDINATE HOME RUNS BETWEEN PLAN VIEWS. WHERE ANY CONDUIT IS SHOWN IN ANY PLAN VIEW IT SHALL BE INSTALLED THE ENTIRE LENGTH AS MAY BE REQUIRED.

11. **SCOPE OF WORK**
A. DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT, INCLUDING COORDINATION WITH OWNER FOR DEMO AND EQUIPMENT SHUTDOWNS.
B. INSTALLATION OF NEW ELECTRICAL EQUIPMENT, LIGHTING, PLC, AND OTHER EQUIPMENT AS INDICATED ON THE DRAWINGS.
C. GROUNDING OF EQUIPMENT.
D. STARTUP, TESTING, AND TRAINING.
E. AS BUILT.

12. **RESTORATION**
CONTRACTOR SHALL RESTORE TO ORIGINAL CONDITIONS ALL FACILITIES HE DISTURBS. CONTRACTOR SHALL PROVIDE CLEANUP TO ORIGINAL CONDITIONS.

13. **WARRANTY**
CONTRACTOR SHALL WARRANT LABOR AND MATERIALS PER THE TERMS IN THE CONTRACT, SEE OTHER SPECIFICATIONS.

14. **PROGRAMMING**
ALL PLC AND SCADA PROGRAMING SHALL BE PROVIDED BY THE I&C CONTRACTOR.

15. **FIELD VERIFICATIONS**
FIELD VERIFY ALL EXISTING CONDITIONS. MAKE MINOR ADJUSTMENTS AS NEEDED. INFORM OWNER/ENGINEER OF INCONSISTENCIES IMMEDIATELY IF PROBLEMS OR CONFLICTS EXIST.

16. **TESTING**
PROVIDE TESTING ON SYSTEM GROUNDING MEGGER POWER WIRES BETWEEN EQUIPMENT, PROVIDE REPORT OF TORQUE SETTINGS FOR POWER TERMINATIONS.

ELECTRICAL ABBREVIATIONS

ATB	ANALOG TERMINAL BOX	IPB	INST. PULL BOX	PS	PUMP STATION
ATS	AUTOMATIC TRANSFER SWITCH	ITB	INST. TERMINAL BOX	PSA	PANEL SURGE ARRESTOR
CB	CIRCUIT BREAKER	LA	LIGHTNING ARRESTER	PTB	POWER TERMINAL BOX
CCTV	CLOSED-CIRCUIT TELEVISION	LIPO	LITHIUM IRON PHOSPHATE	R-I/O CBL	REMOTE I/O CABLE
CP	CONTROL PANEL	LOR	LOCAL-OFF-REMOTE	R,G,A	RED, GREEN, AMBER PILOT LIGHT
CPB	CONTROL PULL BOX	LR	LINE REACTOR	RGS	RIGID GALV. STEEL
CPU	CENTRAL PROCESSING UNIT	LSIG	LONG-TIME, SHORT-TIME, INSTANTANEOUS, GROUND-FAULT PROT.	RO	READ OUT
CR	CONTROL RELAY			SA	SURGE ARRESTER
CS	CONTROL STATION	M	MOTOR STARTER	SC	SURGE CAPACITOR
CTB	CONTROL TERM. BOX	MB+	MODBUS PLUS	SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
DISC	DISCONNECT SWITCH	MCC	MOTOR CONTROL CENTER	SE	SERVICE ENTRANCE
DMM	DIGITAL MULTIMETER	MH	MOUNTING HEIGHT	SS	SELECTOR SWITCH OR 316 STAINLESS STEEL
DS	DOOR SWITCH	MLO	MAIN LUG ONLY	SWBD	SWITCH BOARD
DTB	DISCRETE TERMINAL BOX	MTS	MANUAL TRANSFER SWITCH	STB	SIGNAL TERMINAL BOX
EN	ETHERNET	NEC	NATIONAL ELECTRIC CODE	TC	TIME CLOCK
ETM	ELAPSED TIME METER	NF	NON FUSED	TOT	TOTALIZER
F	FUSE	NTS	NOT TO SCALE	TS	TEST SWITCH
FO	FIBER OPTIC	OHC	OPEN-HOLD-CLOSE	TSP	TWISTED SHIELDED PAIR
FSA	FIELD SURGE ARRESTOR	OHU	OVER HEAD ELEC UTILITIES	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	OL	OVER LOAD RELAY	UPS	UNINTERRUPTIBLE POWER SUPPLY
GML	GROUPED MOTOR LOAD	PB	PUSH BUTTON	VFD	VARIABLE FREQUENCY DRIVE
GPM	GALLONS PER MINUTE	PDP	POWER DIST. PANEL	WP	WEATHER PROOF
HOA	HAND-OFF-AUTO	PLC	PROGRAMMABLE LOGIC COMPUTER	WW	WIRE WAY
HOR	HAND-OFF-REMOTE	PM	PULSE MONITOR	ZSL	POSITION SWITCH CLOSED
I&C	INSTRUMENTATION & CONTROLS	PNLBD	PANELBOARD	ZSO	POSTION SWITCH OPEN
I/O	INPUT/OUTPUT	PPB	POWER PULL BOX		

ELECTRICAL LEGEND

	RACEWAY EXPOSED		LEVEL SWITCH, FLOAT SWITCH		SWITCH 48" AFF
	LIGHTING RACEWAY CONCEALED		PRESSURE SWITCH		SWITCH 48" AFF, 3-WAY
	RACEWAY CONCEALED		LIMIT SWITCH		ENCLOSED COMBINATION STARTER
	RACEWAY TURNED UP/DOWN		THERMAL SWITCH		JUNCTION BOX
	MOTOR		HEATER		PANELBOARD, ELECTRICAL EQUIP. ENCL
	TRANSFORMER		PILOT LIGHT		CROSS HATCH DENOTES DELETION
	FUSE		DENOTES SEPARATE CONDUITS WITH SEPARATE WIRE		MANUAL MOTOR STARTER
	CIRCUIT BREAKER		DENOTES PANELBOARD A, CIRCUIT 3		RED, MAINTAINED PUSH BUTTON
	CAPACITOR		ELAPSED TIME METER		TIMING CONTACT
	LIGHTNING ARRESTER		SELECTOR SWITCH		FLOW SWITCH
	SAFETY DISCONNECT SWITCH, HP RATED		PUSH BUTTON ON-OFF SWITCH		CONTROL RELAY, MOTOR STARTER, ETC.
	GROUND		DENOTES CONDUIT TAG 01		
	DUPLEX, 14" AFF				
	SIMPLEX, 14" AFF				
	NORMALLY OPEN CONTACT				
	NORMALLY CLOSED CONTACT				

ELECTRICAL NOTES

1. THE FOLLOWING SHALL ESTABLISH THE MINIMUM LEVEL OF QUALITY FOR MATERIALS.
2. THE FOLLOWING SHALL APPLY UNLESS OTHERWISE INDICATED BY DRAWINGS.
3. THE FOLLOWING SHALL NOT APPLY TO POWER TRANSFORMERS, LIGHT FIXTURES AND LIGHT POLES, THOSE ELEMENTS ARE NOTED OR INDICATED ELSEWHERE.
4. ENCLOSURE NEMA RATING DOES NOT APPLY TO CONTROL PANELS AND RTU ENCLOSURES REFER TO OTHER DRAWINGS AND SPECS.

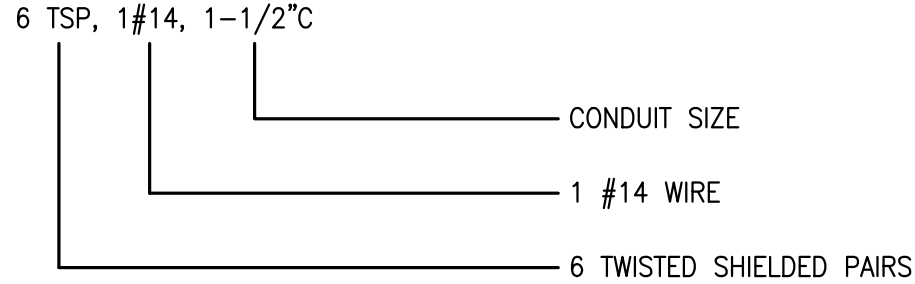
LEGEND

N/A	NOT APPLICABLE
316 SS	316 STAINLESS STEEL
EMT	ELECTRICAL METALLIC TUBING, GALV. STEEL
ALUMINUM	ALUMINUM RIGID CONDUIT 6063 ALLOY, NOT ALUMINUM EMT

MATERIAL SCHEDULE

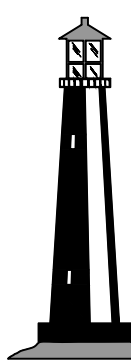
LOCATION	CONDUIT	ENCLOSURE MATERIALS	ENCLOSURE NEMA RATING	FASTENERS, STRUT, THREADED ROD, ETC.	REMARKS
EXTERIOR					
BELOW GRADE	PVC SCHED. 40	CONCRETE BOXES	N/A	316 SS	
ABOVE GRADE	PVC SCHED. 80	316 SS	4X	316 SS	

CONDUIT LEGEND



Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

256815



C&W engineering
ELECTRICAL CONSULTANTS
6903 VISTA PARKWAY NORTH, SUITE 10
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(561) 642-5333
REGISTRATION NUMBERS
C & W ENGINEERING INC. CA# 33315
MICHAEL A. GUIDA, P.E. 60755

SEAL

MICHAEL A. GUIDA
Florida P.E. No. 60755

Date

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CONSULTING ENGINEERS

5720 Corporate Way, West Palm Beach, Florida 33407
(561) 683-3113, www.MockRoos.com

Florida Reg. No. 48

Florida L.B. No. 48

STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

ELECTRICAL NOTES
& LEGEND

MAY 2026

G-04

CADD File: F:\well\p3\1\CADD\DWG\PSP\1CS01_M301 - OVERALL SITE.dwg
PLOT DATE: May 05, 2026 - 9:32pm

Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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SEAL
GARRYTT G. GRUBER
Florida P.E. No. 60721

Date

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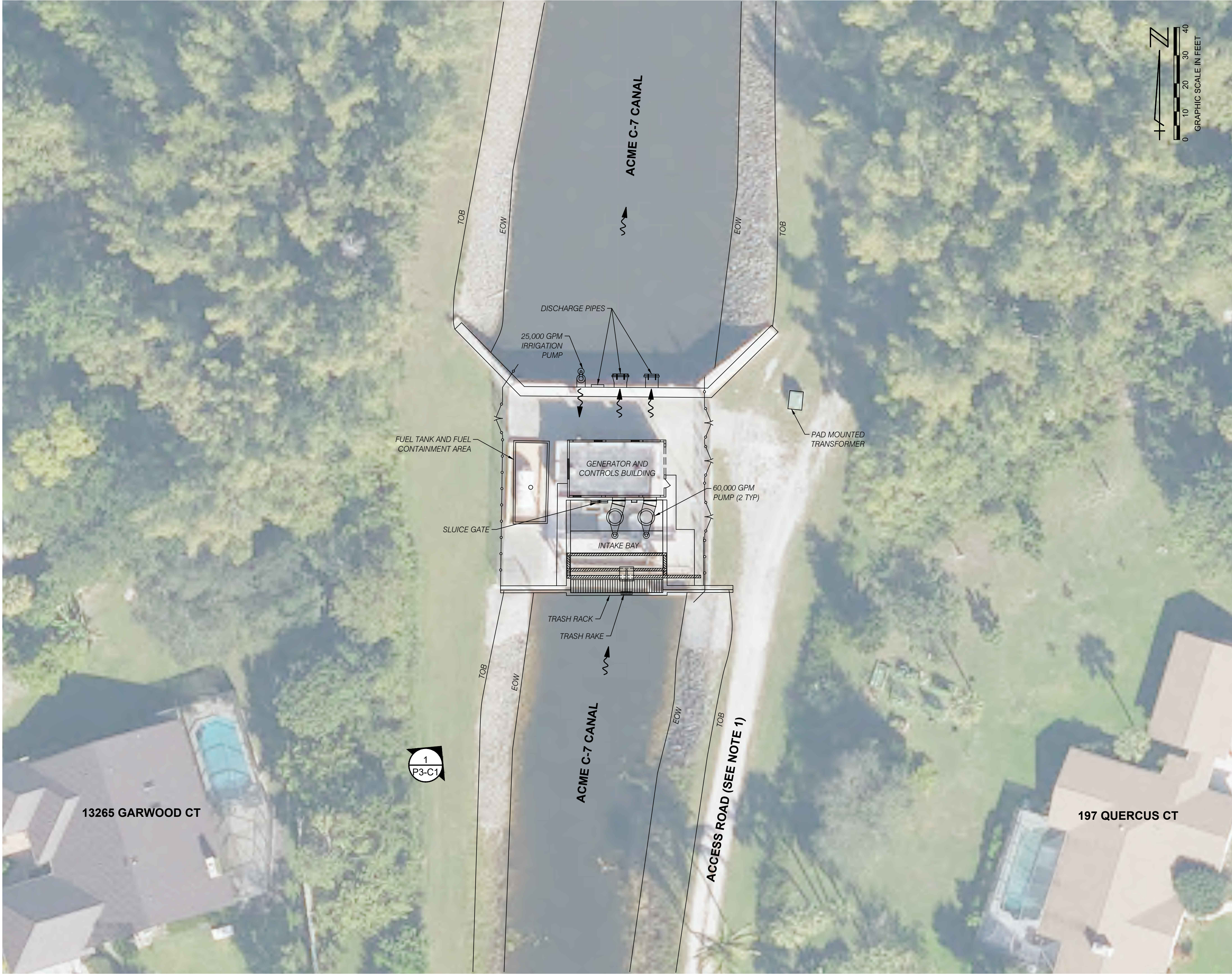
**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

**PUMP STATION NO. 3
OVERALL SITE PLAN**

MAY 2026

P3-C1



1
P3-C1 AERIAL PHOTO FACING NORTH EAST
NTS

NOTES:

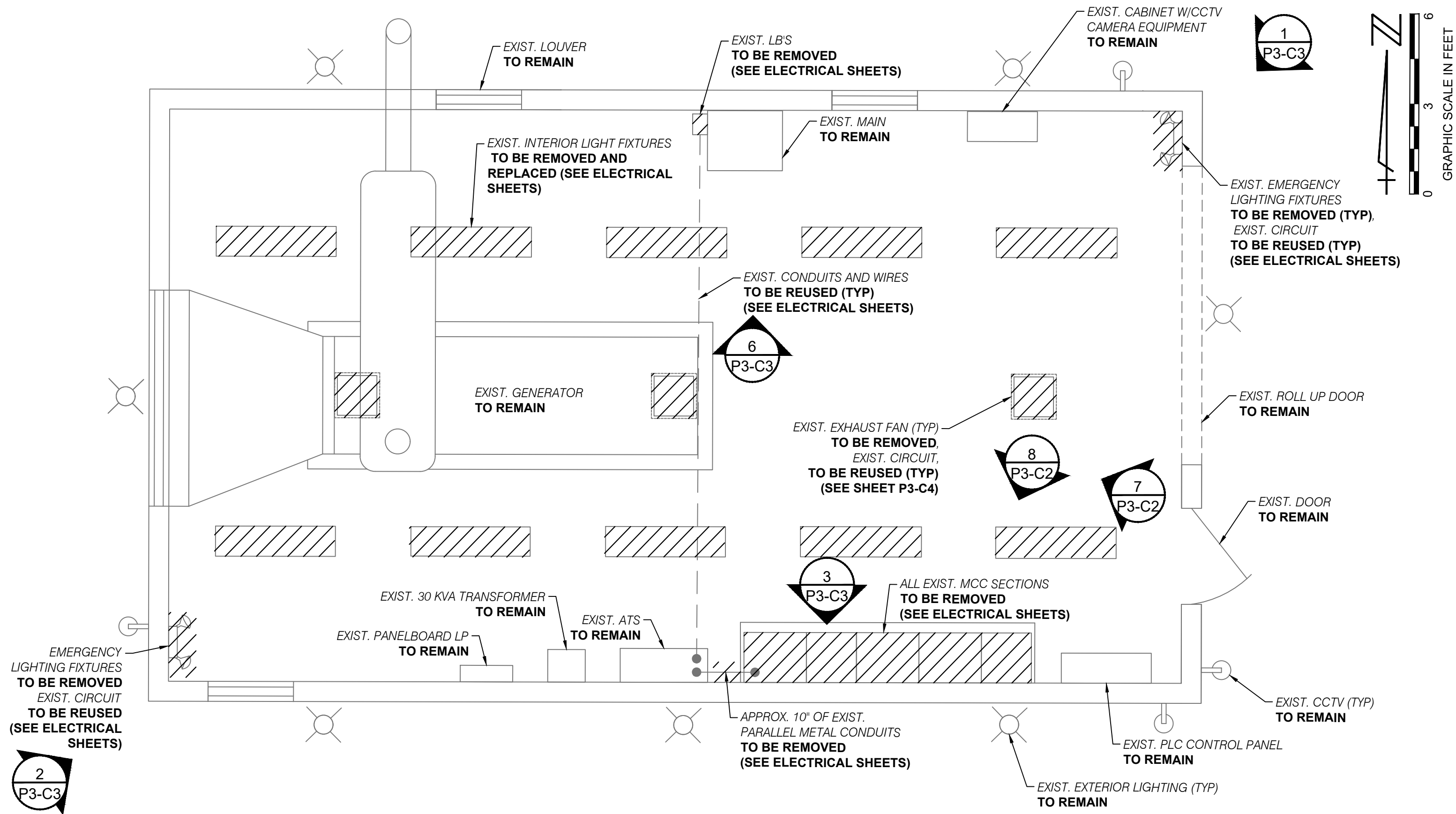
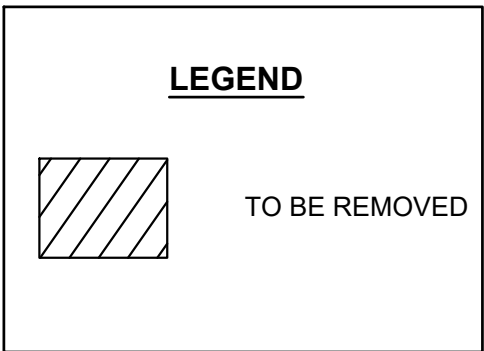
- CONTRACTOR TO ACCESS THE SITE FROM THE SOUTH AND EAST VIA THE VILLAGE OF WELLINGTON ACCESS GATE ON FOREST HILL RD. SEE SHEET G-02 FOR ACCESS GATE LOCATION.
- MAP LINEWORK AND CADD INFORMATION ON THIS SHEET IS SHOWN FOR GRAPHICAL PURPOSES ONLY AND NOT MEANT TO ACCURATELY REFLECT SITE CONDITIONS OR REPRESENT SURVEY INFORMATION.

WELLINGTON STORMWATER PUMP STATION NO. 3 INFORMATION

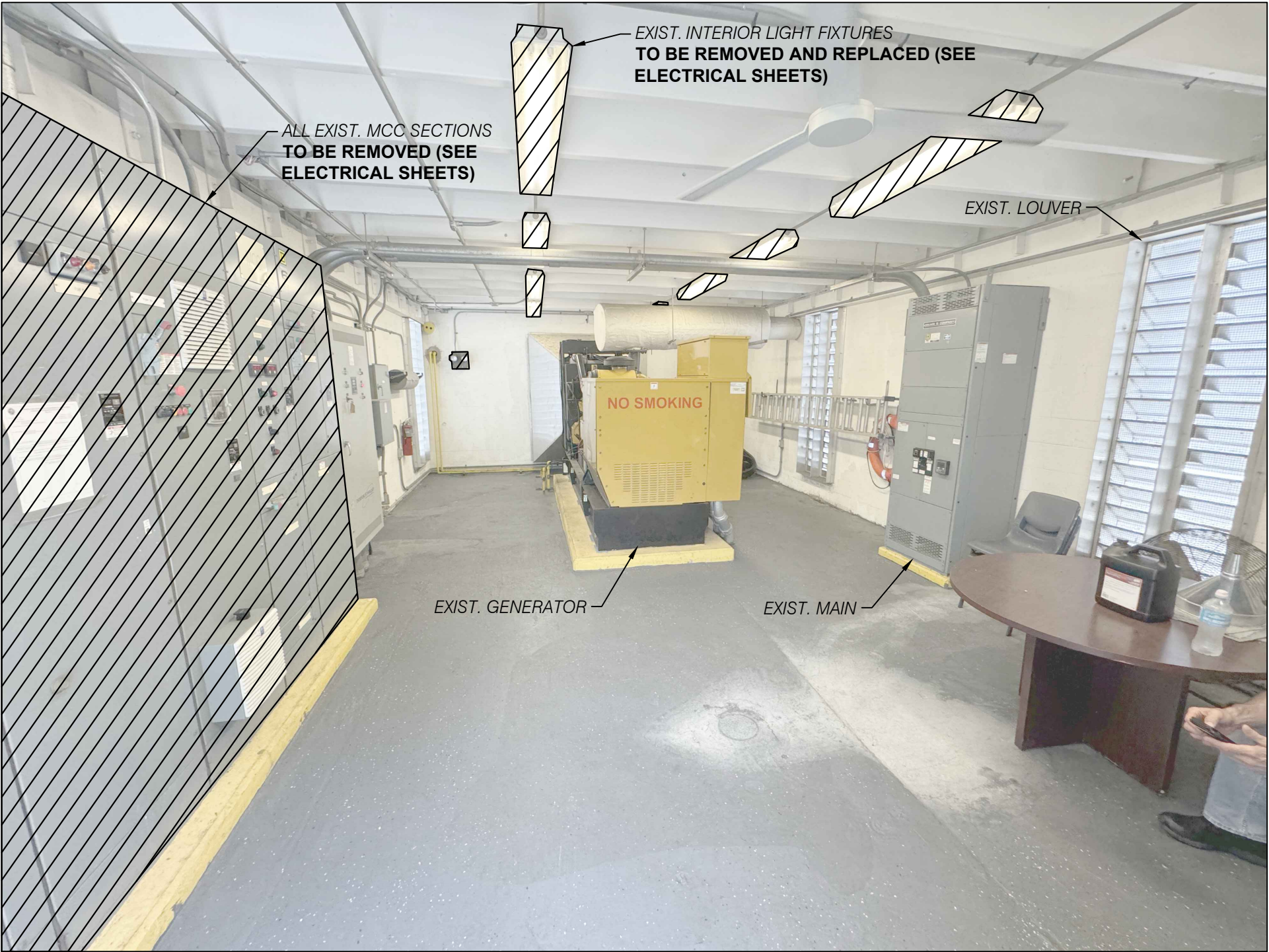
CONTROL STRUCTURE FEATURE	INTAKE WATER	RECEIVING WATER	PUMP CAPACITY (GPM)	VFD	PUMP OPERATION (NGVD)
PUMP 1	C-7	C-51W	60,000	Y	ON @ 12.2'
PUMP 2	C-7	C-51W	60,000	N	OFF @ 12.0'
PUMP 3 (WATER SUPPLY)	C-51W	C-7	25,000	N	WATER SUPPLY
GRAVITY DISCHARGE GATE					

NOTES:

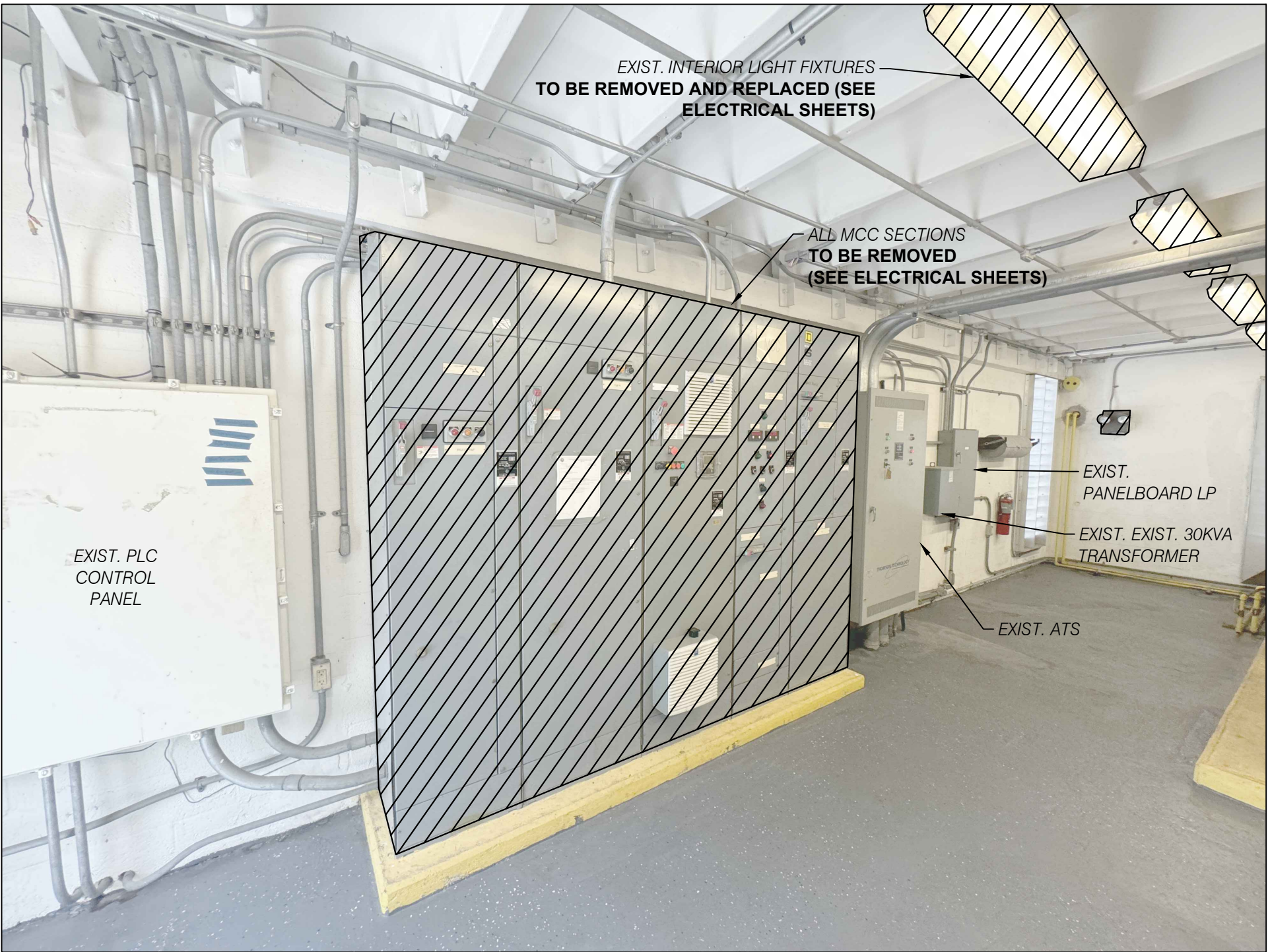
1. WHEN DEMOLISHING LIGHTING FIXTURES EXISTING LIGHTING CIRCUITS TO REMAIN AND TO BE REUSED WITH NEW FIXTURES. EXTEND WIRES AND CONDUIT AS REQUIRED.
2. EXISTING EQUIPMENT NOT BEING DEMOLISHED IS TO REMAIN AND BE PROTECTED.
3. MAJOR COMPONENTS ARE SHOWN WITH A DEMOLITION HATCH. MISCELLANEOUS CONDUIT, WIRE, CONCRETE, ETC. ARE TO BE REMOVED AS NEEDED TO COMPLETE THE WORK.



1 PUMP STATION NO. 3 DEMOLITION PLAN
P3-C2 NTS



7 SITE PHOTO FACING WEST
P3-C3 NTS



8 SITE PHOTO FACING SOUTH
P3-C3 NTS

CADD File: F:\well\p3\1\CADD\DWG\ISP\1CS01_M303 - MECHANICAL DEMO PLAN.dwg
PLOT DATE: May 05, 2026 - 9:32pm

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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SEAL
GARRYTT G. GRUBER
Florida P.E. No. 60721

Date

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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

**PUMP STATION NO. 3
DEMOLITION PLAN**

MAY 2026

P3-C2



1 SITE PHOTO
P3-C3 NTS



2 SITE PHOTO
P3-C3 NTS



3 SITE PHOTO
P3-C3 NTS



4 SITE PHOTO
P3-C3 NTS



5 SITE PHOTO
P3-C3 NTS



6 SITE PHOTO
P3-C3 NTS

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PLOT DATE: May 05, 2026 - 9:32pm

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

Bar is equal to one inch on original drawing
As per all scaled dimensions accordingly

No.	Date	By	Revision

SEAL
GARRYTT G. GRUBER
Florida P.E. No. 60721

Date

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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

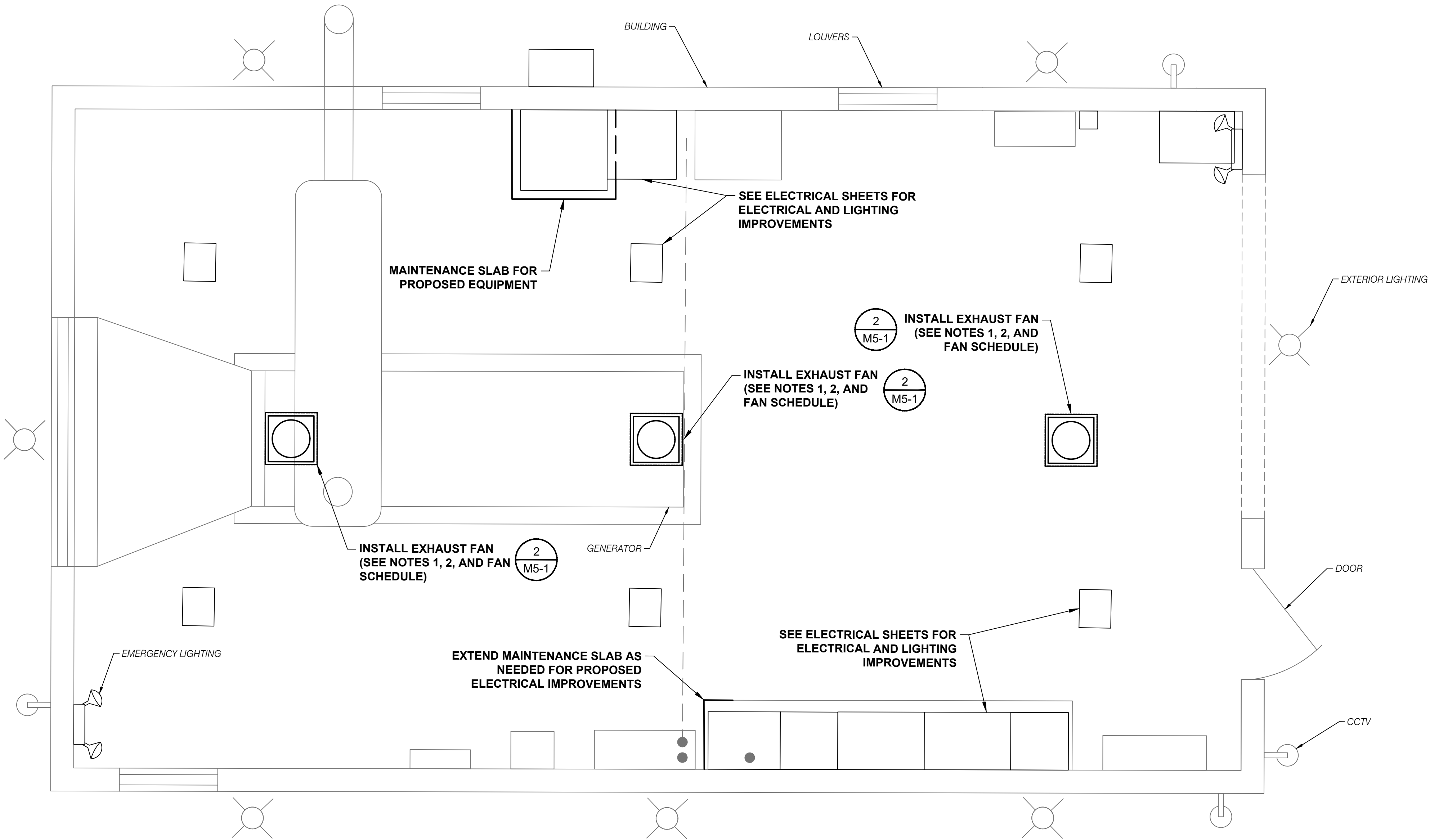
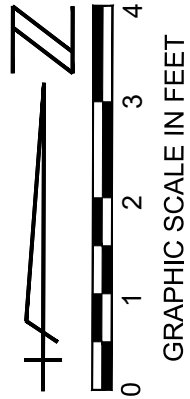
VILLAGE OF WELLINGTON

**PUMP STATION NO. 3
EXISTING SITE
PHOTOS**

MAY 2026

P3-C3

- NOTES
1. EXHAUST FANS TO INCLUDE INTEGRAL DISCONNECT SWITCH (3 REQUIRED) MODIFY EXISTING ROOF PENETRATIONS AS NECESSARY FOR PROPER INSTALLATION (SUBMIT SHOP DRAWINGS).
 2. CONTRACTOR TO COORDINATE WITH ROOFING CONSULTANT FOR GUIDANCE AND TO INSPECT THE FAN INSTALLATIONS.
 3. INSTALL EXHAUST FANS PER MANUFACTURER'S RECOMMENDATIONS.



EXHAUST FAN SCHEDULE																
QUANTITY	MANUFACTURER	MODEL NUMBER	SP (in wg)	VOLUME (CFM)	DRIVE	FRPM	WEIGHT (LBS)	MOTOR					SONES	MOUNTING	FAN CONTROL	REMARKS
								HP	RPM	VOLTS	PH	FLA				
3	GREENHECK	G-140-VG	0.327	1500 EACH	DIRECT	988	57	1/2	1200	115	1	6.4	7.9			1,2,3
REMARKS 1. FAN INSTALLED PER MIAMI DADE NOA 12-0120.13 2. LOUVER TO BE INSTALLED, SEE LOUVER SCHEDULE 3. BIRD SCREEN																

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PLOT DATE: May 05, 2026 - 9:33pm

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

**PUMP STATION NO. 3
MECHANICAL & CIVIL
IMPROVEMENTS**

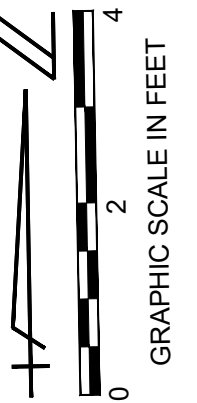
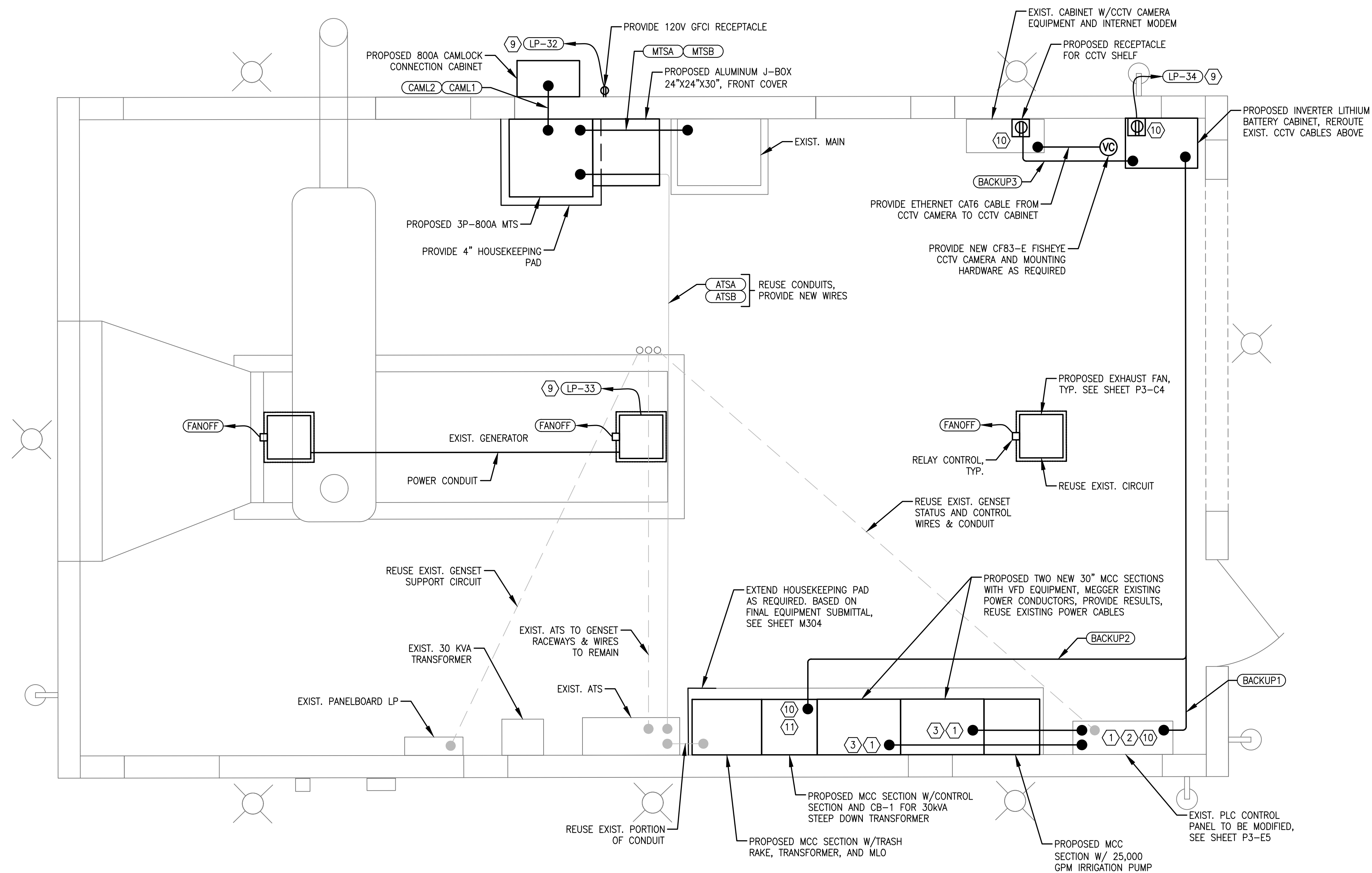
MAY 2026
P3-C4

- ① PROVIDE FROM EXIST. PS PLC CP 1" CONDUIT WITH 19#14 WIRES FOR STATUS OF VFD, PROVIDE 1" CONDUIT WITH 2TSP WIRES FOR ANALOG SPEED REFERENCE AND CONTROL TO EACH VFD.
- ② CONTRACTOR SHALL COORDINATE WITH OWNER FOR SCADA MODIFICATIONS PROGRAMMING.
- ③ CONDUIT PENETRATIONS IN MCC SECTIONS ARE AT REAR THROUGH WALL, PENETRATIONS SHALL BE ADJUSTED TO FIT NEW VFD. PENETRATION SHALL BE WEATHERPROOF, PROVIDE DUCT SEAL INSIDE MCC AT ALL PENETRATIONS.
- ④ PROVIDE 1P-20A CB FOR EXTERIOR POLE MOUNTED LIGHT.
- ⑤ PROVIDE 1P-20A CB FOR EXTERIOR GFCI RECEPTACLE.
- ⑥ PROVIDE 1P-20A CB FOR INVERTER LITHIUM BATTERY CABINET
- ⑦ PROVIDE 1P-20A CB FOR EXHAUST FANS.
- ⑧ PROVIDE 1P-20A SPARE CB.
- ⑨ PROVIDE NEW CIRCUIT, 3#12 IN 3/4" C FROM EXISTING PNLB LP. MATCH MODEL AND AIC RATING OF EXISTING CB. UPDATE PNLB SCHEDULE.
- ⑩ PROVIDE PLACARD "120V POWER FROM INVERTER/BATTERY BACKUP-WARNING DISABLE BACKUP POWER AT INVERTER/BATTERY CABINET FIRST".
- ⑪ REUSE FORMER WIRES TO EXISTING INSTRUMENTS AND MOTORIZED ACTUATOR, EXTEND Wires AS REQUIRED.

1. ALL RACEWAY RUNS ARE SHOWN DIAGRAMMATIC. PROVIDE PULL BOXES WHERE REQUIRED BY CODE.
2. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT LAYOUT MEETING NEC CLEARANCES.
3. BOND MCC TO EXISTING GROUND. EXTEND 3/0 BOUNDING WIRE AS REQUIRED.
4. CONTRACTOR SHALL CONCEAL ALL CONDUCTORS.
5. PROVIDE MEGGER TEST RESULTS.
6. PROVIDE TORQUE READINGS FOR POWER WIRE TERMINATIONS.
7. PROVIDE LOOP CHECKS FOR ALL CONTROL/STATUS WIRING BEING FURNISHED.



NTS.

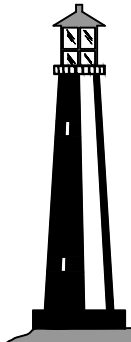


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PLOT DATE: May 04, 2026 - 11:41 am

Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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C&W engineering
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REGISTRATION NUMBERS
C & W ENGINEERING INC. CA# 33315
MICHAEL A. GUIDA, P.E. 60755

SEAL
MICHAEL A. GUIDA
Florida P.E. No. 60755
Date

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Florida Reg. No. 48
Florida L.B. No. 48

STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS
VILLAGE OF WELLINGTON

PUMP STATION NO. 3
OVERALL LIGHTING
PLAN

MAY 2026
P3-E2

GENERAL ELECTRICAL NOTES

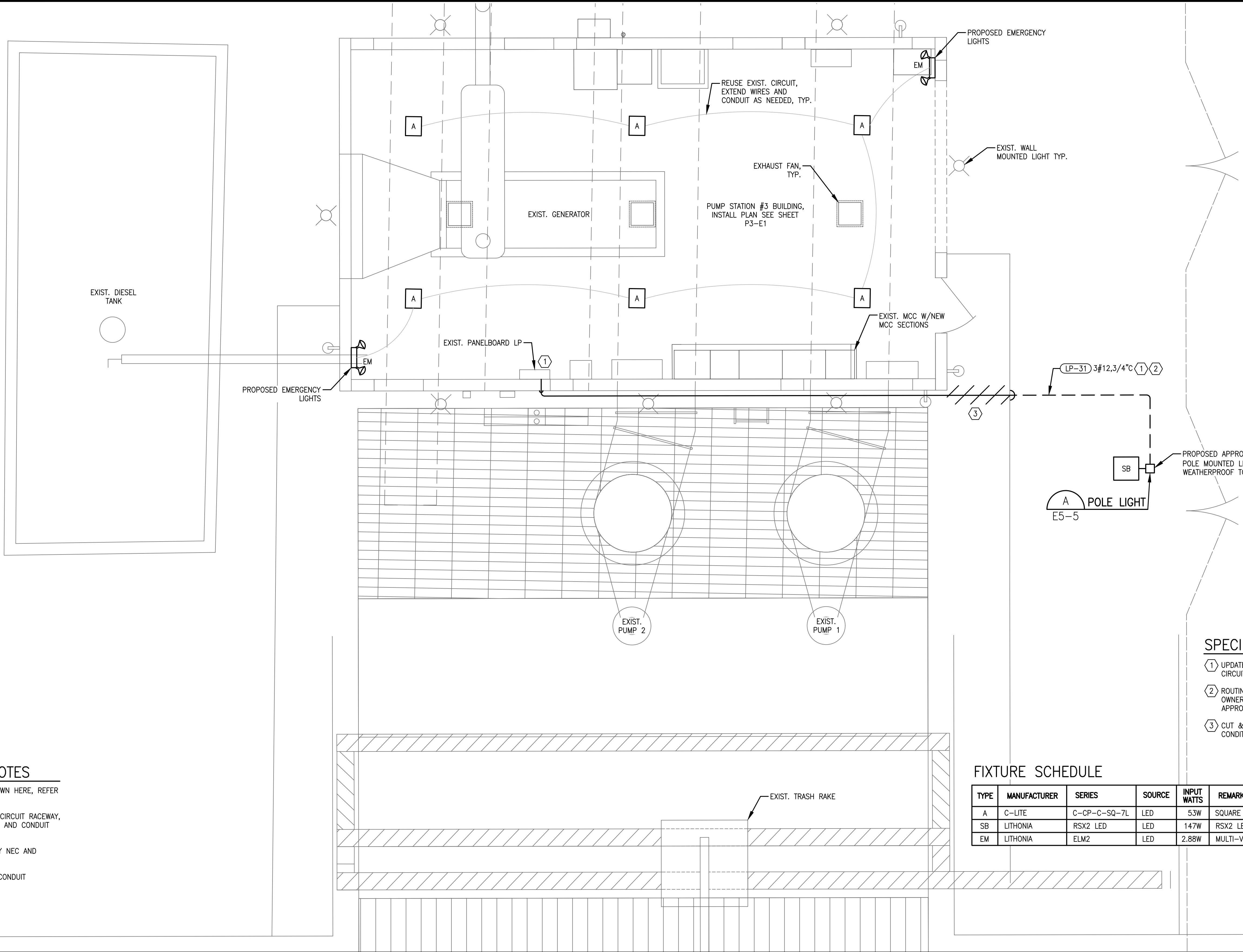
- NOT ALL ELECTRICAL EQUIPMENT ARE SHOWN HERE, REFER TO OTHER DRAWINGS.
- PROPOSED ROUTING IS SHOWN FOR NEW CIRCUIT RACEWAY, CONTRACTOR SHALL PROVIDE PULL BOXES AND CONDUIT SUPPORTS AS REQUIRED BY CODE.
- PROVIDE ALL GROUNDING AS REQUIRED BY NEC AND CONTRACT DOCUMENTS.
- PROVIDE DUCT SEAL AT ALL ENCLOSURE CONDUIT PENETRATIONS.

SPECIFIC ELECTRICAL NOTES

- UPDATE PANELBOARD SCHEDULE TO REFLECT NEW POLE LIGHT CIRCUIT.
- ROUTING IS SHOWING DIAGRAMMATICALLY. COORDINATE WITH OWNER ROUTING PRIOR TO INSTALLATION AND OBTAIN APPROVAL.
- CUT & PATCH HARD SURFACE, RESTORE TO ORIGINAL CONDITION.

FIXTURE SCHEDULE

TYPE	MANUFACTURER	SERIES	SOURCE	INPUT WATTS	REMARKS
A	C-LITE	C-CP-C-SQ-7L	LED	53W	SQUARE LED CANOPY LIGHT
SB	LITHONIA	RSX2 LED	LED	147W	RSX2 LED P3 40K R3 MVOLT SPA PER7 DDBXD
EM	LITHONIA	ELM2	LED	2.88W	MULTI-VOLT, STAINLESS FASTENERS, DAMP, BATTERY BACKED





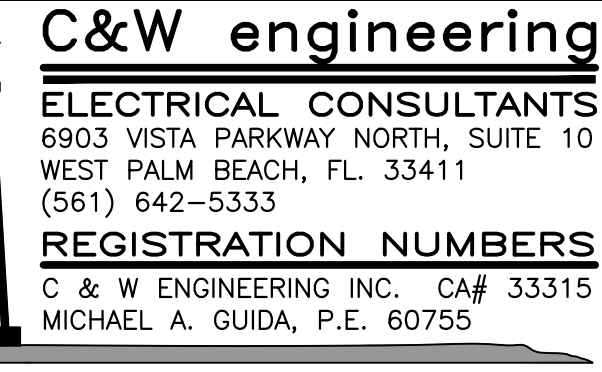
- ① REPLACE ALL EXISTING MCC SECTIONS.
- ② CONTRACTOR SHALL MEGGER EXISTING WIRES.
- ③ DETAILED ARC FLASH LABELS REQUIRED.



NTS

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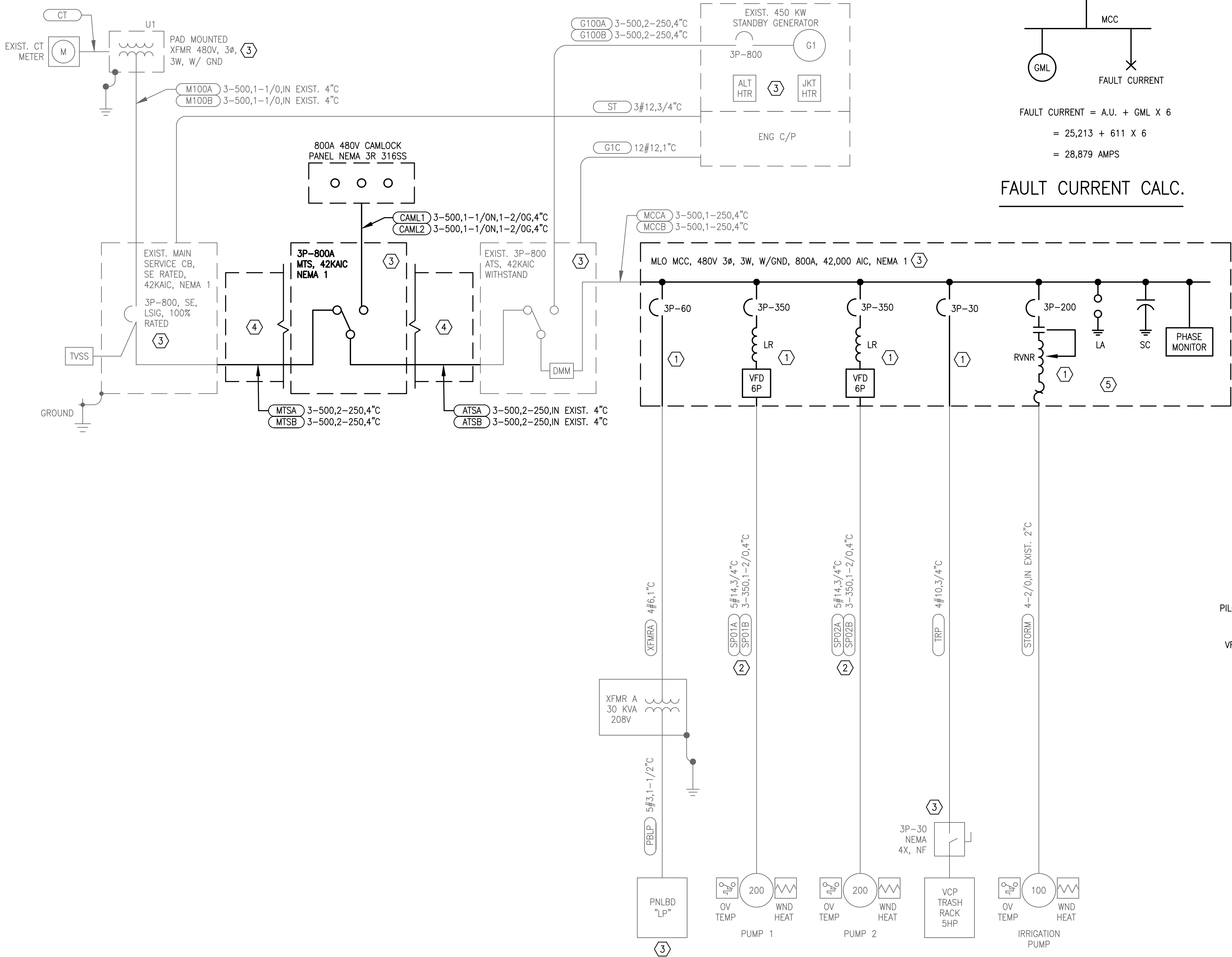
Florida L.B. No. 48

VILLAGE OF WELLINGTON

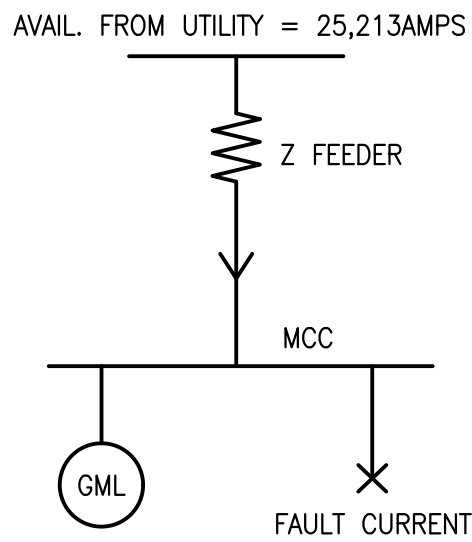
MAY 2026

P3-E3

CADD File: \\10.1.10.26\c\w\dropbox\JOBS\68-mock-roos\256815 village of wellington phase 1 pump station improvements\DRAWINGS\P3-E4 ELECTRICAL INSTALL ONELINE P3-E4.dwg
PLOT DATE: May 04, 2026 - 11:41 am



ONELINE DIAGRAM



FAULT CURRENT CALC.

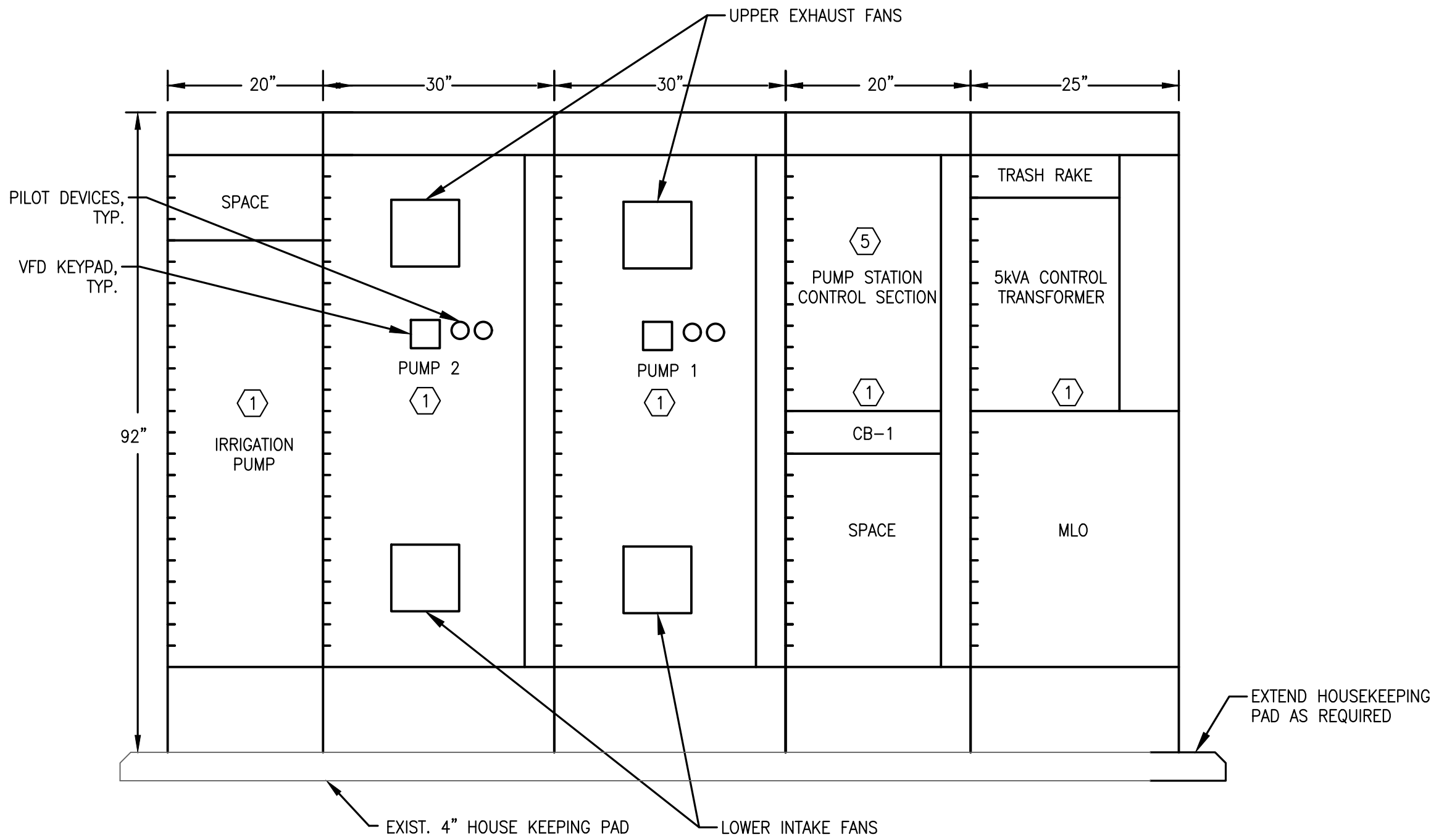
SPECIFIC NOTES

- 1 REPLACED ALL MCC SECTIONS. PROVIDE ALL POWER, CONTROL, AND GROUNDING CONNECTIONS AS REQUIRED, REUSE FORMER PUMP WIRES.
- 2 CONTRACTOR SHALL MEGGER EXISTING WIRES.
- 3 DETAILED ARC FLASH LABELS REQUIRED.
- 4 ALUMINUM J-BOX 24"x24"x30" MINIMUM, FRONT COVER (SAME J-BOX SHOWN).
- 5 I&C CONTRACTOR TO PROVIDE MCC CONTROL SECTION EQUAL TO FORMER MCC CONTROL SECTION.

LOAD CALCULATION

DESCRIPTION	AMPS
STORM WTR PUMP 1	240
STORM WTR PUMP 2	240
100HP IRRIGATION PUMP	124
XFMR A	36
TRASH RAKE	7
25% OF LARGEST MOTOR	60
TOTAL	707
SERVICE PROVIDED	760 AMPS

NO NEW 480V LOADS BEING ADDED.
MISCELLANEOUS INVERTER/CHARGING LOAD LESS THAN 3AMPS.



MCC A ELEVATION

NTS

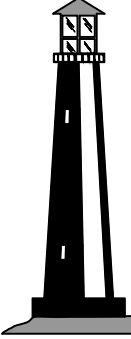
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PLOT DATE: May 04, 2026 - 11:41 am

Bar is equal to one inch on original drawing

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256815

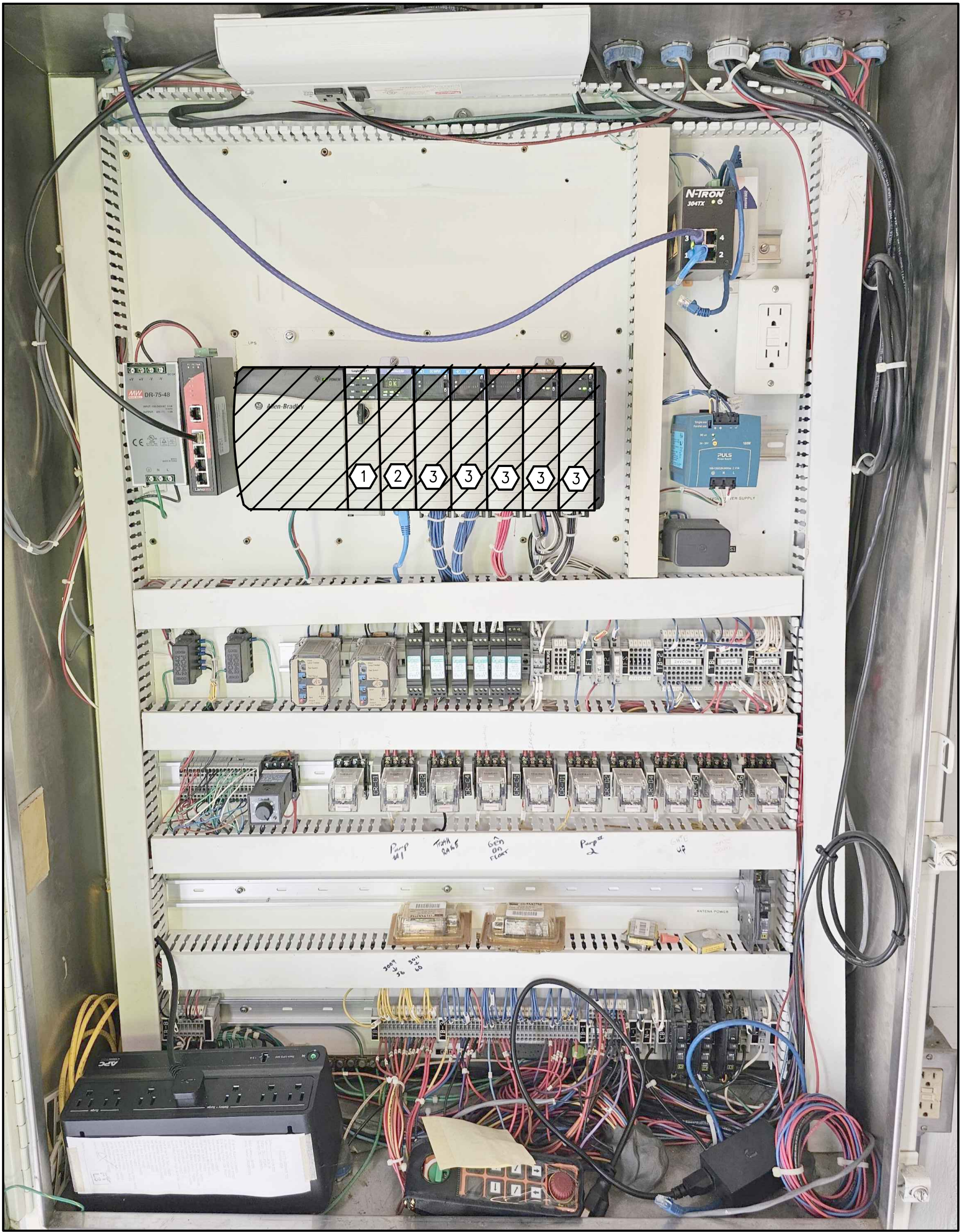
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Florida Reg. No. 48

Florida L.B. No. 48

STORMWATER PUMP STATIONS NOS. 3, 4, 6, 7, 8, AND 9 IMPROVEMENTS VILLAGE OF WELLINGTON	PUMP STATION NO. 3 PLC MODIFICATION DETAILS	MAY 2026 P3-E5
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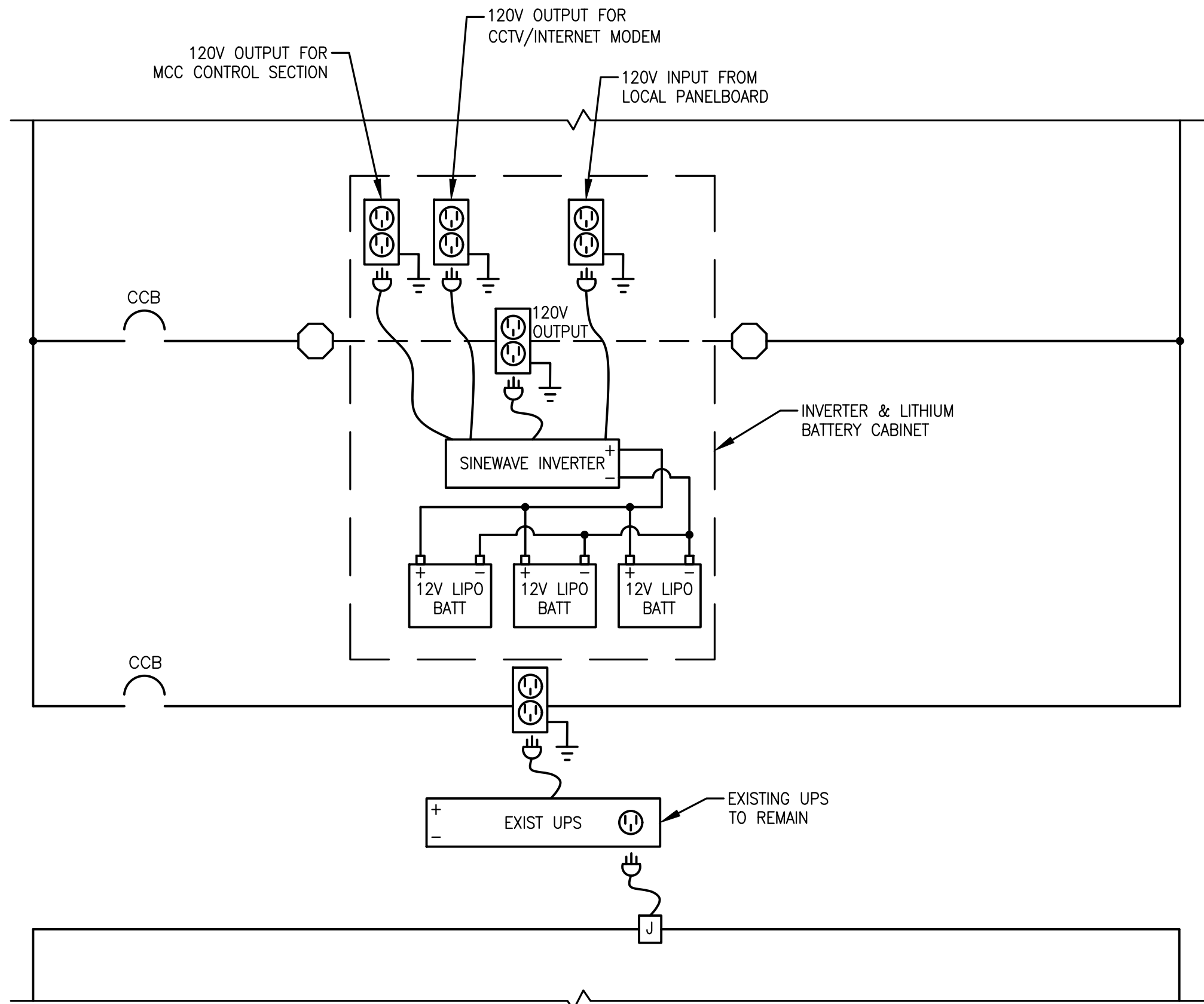
PUMP STATION NO. 3 PLC MODIFICATION DETAILS

GENERAL ELECTRICAL NOTES

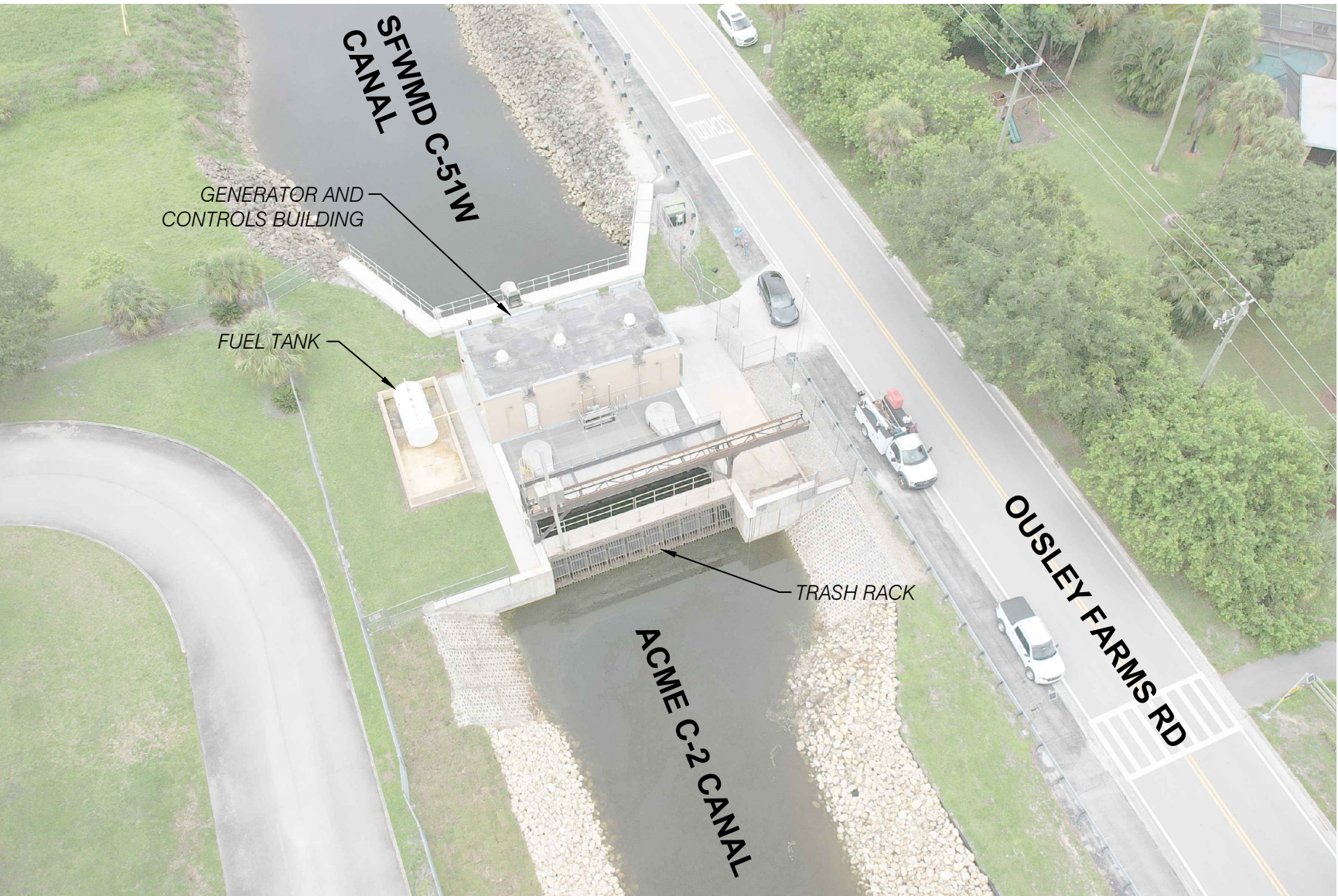
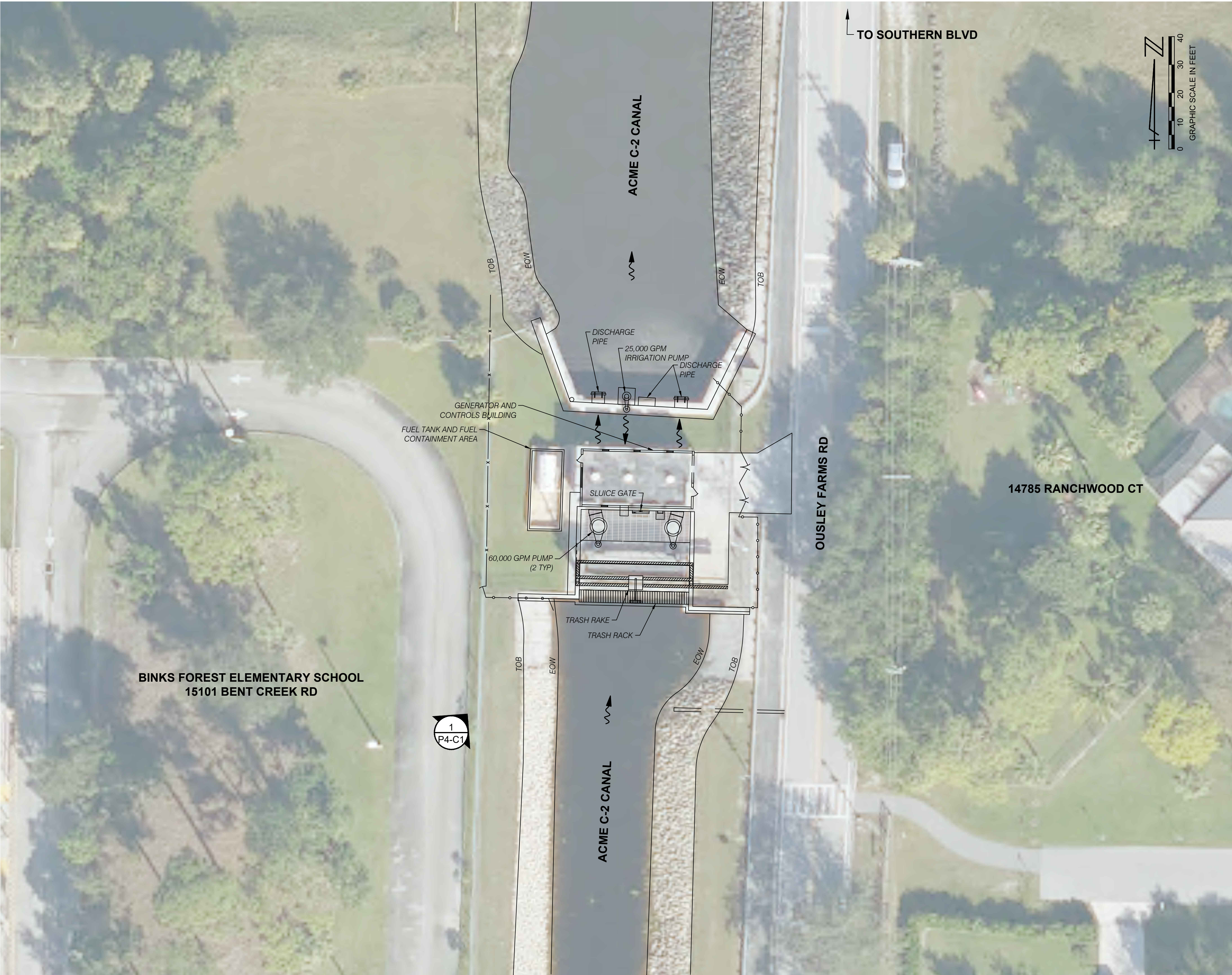
- CONTRACTOR SHALL DOWNLOAD THE PLC PROGRAM FROM THE EXISTING PLC.
- CONTRACTOR SHALL COORDINATE WITH STAFF TO SHUT DOWN EXISTING PLC CONTROL PANEL POWER, AND ALLOW FOR POWER SUPPLIES TO DISCHARGE.
- AFTER NEW CARDS AND MODULES ARE INSTALLED, POWER SUPPLIES AND CONTROL PANEL SHALL BE POWERED UP AND EQUIPMENT TESTED.
- CONTRACTOR SHALL CONNECT TO CPU AND INSTALL PLC PROGRAM.
- AFTER PROGRAM IS INSTALLED, PLC SHALL BE REBOOTED AND TESTED TO ENSURE THE PLC IS WORKING PROPERLY AND SCADA IS RECEIVING STATUS OF THE I/O CONNECTED TO THE PLC.

SPECIFIC ELECTRICAL NOTES

- REPLACE EXIST. L61 CPU MODULE WITH NEW L81 CPU MODULE, INCLUDING NEW POWER MODULE.
- REPLACE EXIST. COMM MODULE WITH NEW COMM MODULE.
- REPLACE EXIST. DIGITAL AND ANALOG I/O CARDS WITH NEW DIGITAL AND ANALOG I/O CARDS. RE-LAND I/O TO SAME TERMINAL POSITIONS AS FORMER MODULES.



NOTE: ABOVE ARE PROPOSED MODIFICATIONS TO EXISTING PLC CONTROLS TO PROVIDE BACKUP POWER, OVER EXTENDED PERIODS OF NO RAIN AND NO UTILITY POWER, SEE SPECIFICATIONS.



1 AERIAL PHOTO FACING NORTH EAST
P4-C1 NTS

- NOTES:
- 1. CONTRACTOR TO ACCESS THE SITE FROM THE NORTH VIA SOUTHERN BLVD.
 - 2. MAP LINEWORK AND CADD INFORMATION ON THIS SHEET IS SHOWN FOR GRAPHICAL PURPOSES ONLY AND NOT MEANT TO ACCURATELY REFLECT SITE CONDITIONS OR REPRESENT SURVEY INFORMATION.

WELLINGTON STORMWATER PUMP STATION NO. 4 INFORMATION					
CONTROL STRUCTURE FEATURE	INTAKE WATER	RECEIVING WATER	PUMP CAPACITY (GPM)	VFD	PUMP OPERATION (NGVD)
PUMP 1	C-2	C-51W	60,000	Y	ON @ 12.2'
PUMP 2	C-2	C-51W	60,000	Y	OFF @ 12.0'
PUMP 3 (WATER SUPPLY)	C-51W	C-2	25,000	N	WATER SUPPLY
GRAVITY DISCHARGE GATE					

CADD File: F:\well\psp1\CADD\DWG\PS1\CS01_M301 - OVERALL SITE.dwg
PLOT DATE: May 05, 2026 - 9:39pm

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No. Date By Revision

SEAL

GARRYTT G. GRUBER
Florida P.E. No. 60721

Date

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Florida Reg. No. 48 Florida L.B. No. 48

STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

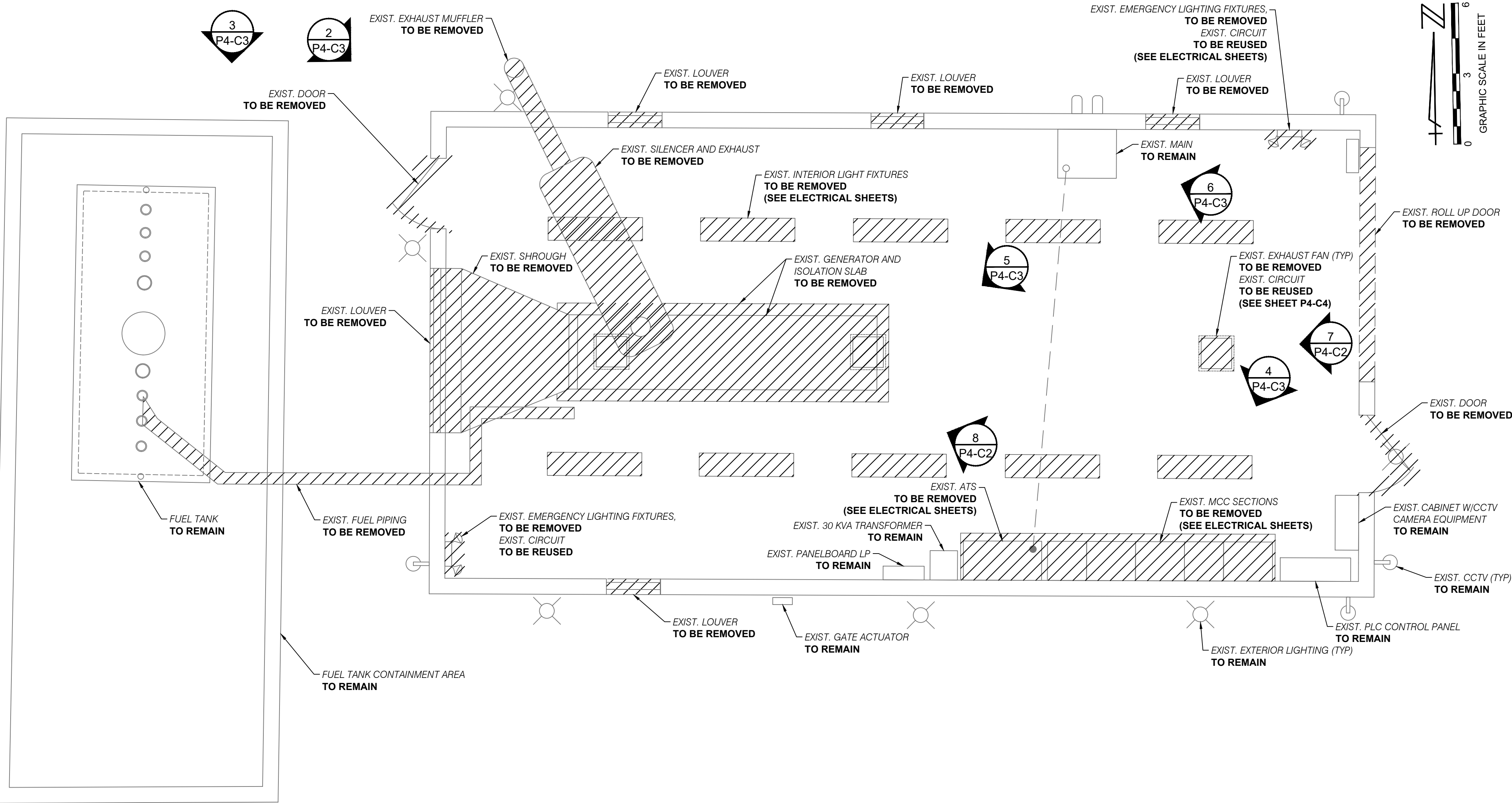
VILLAGE OF WELLINGTON

PUMP STATION NO. 4
OVERALL SITE PLAN

MAY 2026

P4-C1

1. WHEN DEMOLISHING LIGHTING FIXTURES EXISTING LIGHTING CIRCUITS TO REMAIN AND TO BE REUSED WITH NEW FIXTURES.
2. EXISTING EQUIPMENT NOT BEING DEMOLISHED IS TO REMAIN AND BE PROTECTED.
3. MAJOR COMPONENTS ARE SHOWN WITH A DEMOLITION HATCH. MISCELLANEOUS CONDUIT, WIRE, CONCRETE, ETC. ARE TO BE REMOVED AS NEEDED TO COMPLETE THE WORK.
4. EXISTING GENERAL SUPPORT CIRCUITS LIKE JACKET WATER HEATER, ALT. HEATER TO REMAIN AND BE REUSED, EXTEND WIRES AND CONDUIT AS REQUIRED.



No.	Date	By	Revision
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Date _____

Florida Reg. No. 48

Florida L.B. No. 48

VILLAGE OF WELLINGTON

MAY 2026

P4-C2



1 SITE PHOTO
P4-C3 NTS



2 SITE PHOTO
P4-C3 NTS



3 SITE PHOTO
P4-C3 NTS



4 SITE PHOTO
P4-C3 NTS



5 SITE PHOTO
P4-C3 NTS



6 SITE PHOTO
P4-C3 NTS

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PLOT DATE: May 05, 2026 - 9:39pm

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

**PUMP STATION NO. 4
EXISTING SITE
PHOTOS**

MAY 2026

P4-C3

NOTES:

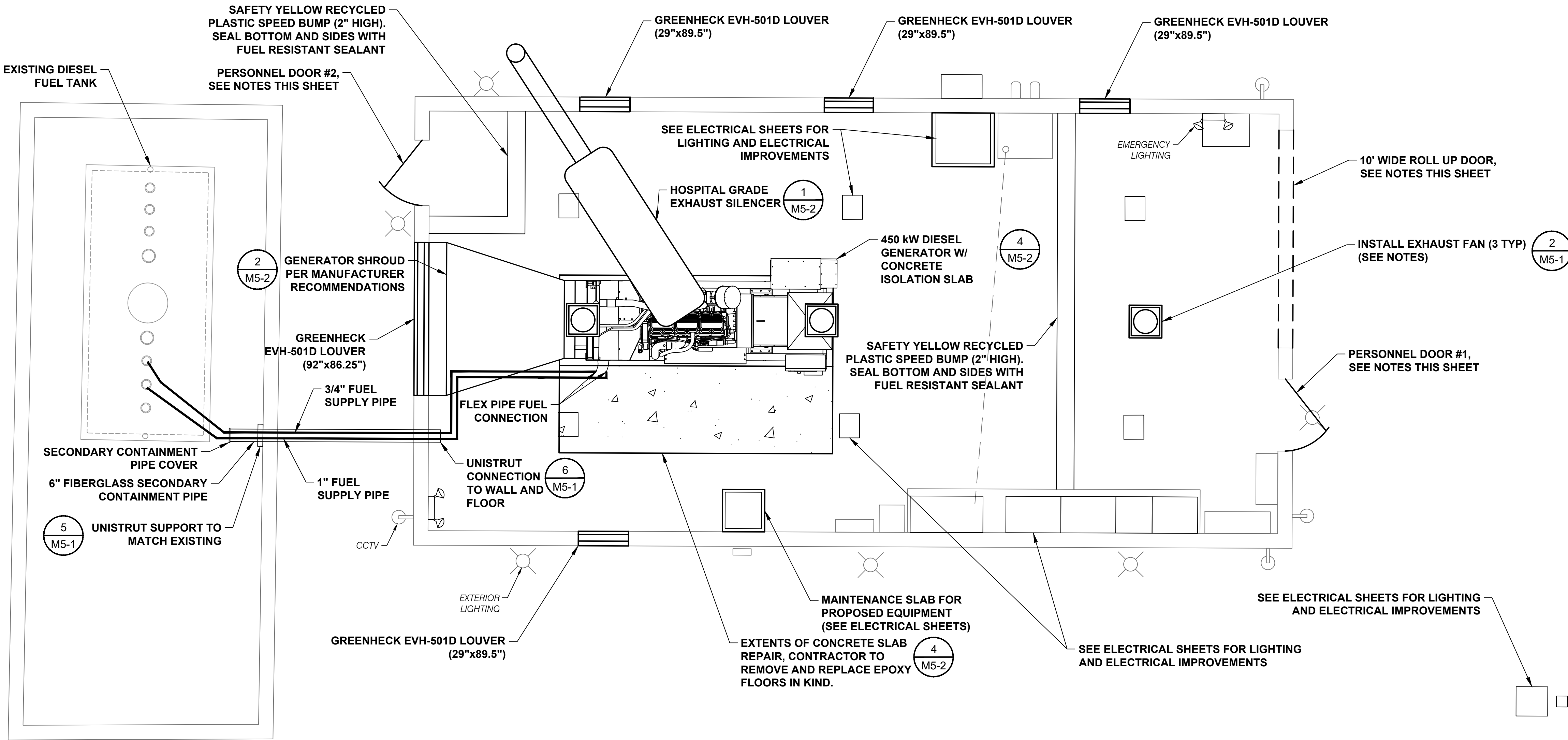
- EXHAUST FANS TO INCLUDE INTEGRAL DISCONNECT SWITCH (3 REQUIRED) MODIFY EXISTING ROOF PENETRATIONS AS NECESSARY FOR PROPER INSTALLATION (SUBMIT SHOP DRAWINGS).
- CONTRACTOR TO COORDINATE WITH ROOFING CONSULTANT FOR GUIDANCE AND TO INSPECT THE FAN INSTALLATIONS.
- CONTRACTOR SHALL CLEAN AND COAT FLOOR PER SPECIFICATIONS (09900). COLOR TO BE APPROVED BY OWNER (SUBMIT COLOR SCHEMES WITH SHOP DRAWINGS. CONTRACTOR SHALL PAINT PUMP STATION BUILDING INTERIOR AND EXTERIOR PER SPECIFICATION.
- CONTRACTOR SHALL PROVIDE RECORD DRAWING INFORMATION FOR EXTERIOR FUEL PIPING.
- SEE DETAIL 1 AND 4 ON SHEET M5-1 FOR FUEL PIPING SCHEMATICS.
- INSTALL EXHAUST FANS AND LOUVER PER MANUFACTURER'S RECOMMENDATIONS.

EXTERIOR MAN DOORS

- EACH MAN DOOR SHALL HAVE THE FOLLOWING HARDWARE:
CLOSER - 2300BC WITH PARALLEL ARMS & 689 SATIN ALUMINUM FINISH
CYLINDRICAL LOCK SET - 5400LN, AUGUSTA HANDLE
DEADBOLT F82 - 3610 626 FINISH
EXIT DEVICE 2100 SERIES - ANSI FUNCTION NO. 14 LEVER ALWAYS ACTIVE (PASSAGE)
- ALL MAN DOOR HARDWARE SHALL BE KEYED TO THE OWNER'S MASTER KEY. CONTRACTOR SHALL COORDINATE KEY LOCK DIRECTLY WITH THE OWNER.
- ALL MAN DOOR HARDWARE SHALL BE MANUFACTURED BY YALE COMMERCIAL LOCKS AND HARDWARE WITH CRASHBAR (SUBMIT SHOP DRAWINGS WITH DOOR SUBMITTAL).
- 3'-0" X 6'-8" X 1-3/4" THICK FLUSH ALUMINUM MAN DOOR MODEL 100BE WITH 5 INCH ALUMINUM FRAME AS MANUFACTURED BY CLINE DOORS. (SUBMIT SHOP DRAWINGS).
- INTERIOR AND EXTERIOR COLORS TO BE APPROVED BY OWNER. (SUBMIT COLOR SCHEMES WITH SHOP DRAWINGS).
- MAN DOORS SHALL BE MEET ALL CURRENT WIND AND IMPACT LOADING REQUIREMENTS.
- CONTRACTOR TO VERIFY THAT DOORS, HARDWARE, AND APPURTENANCES, THAT ARE PROVIDED SHALL MEET ALL APPLICABLE CODES.

ROLL UP DOOR

- CONTRACTOR SHALL SUPPLY 9'-11" X 8'-1" GALVANIZED STEEL ROLL UP DOOR WITH INTERLOCKING SLATS PROVIDED BY OVERHEAD DOOR COMPANY OR APPROVED EQUAL. CONTRACTOR SHALL VERIFY DIMENSIONS.
- ROLL UP DOOR SHALL BE MOUNTED TO THE E-GUIDE ON THE INTERIOR OF THE GENERATOR ROOM PER THE MANUFACTURERS RECOMMENDATION.
- ROLL UP DOOR SHALL HAVE A HAND CHAIN OPERATOR AND LOCK KEYED TO OWNER'S MASTER KEY. CONTRACTOR SHALL COORDINATE LOCK DIRECTLY WITH OWNER.
- ROLL UP DOOR SHALL MEET CURRENT FLORIDA BUILDING CODE FOR WIND LOADS AND SBCCI (STANDARD 12) IMPACT RESISTANCE AND HAVE FLORIDA PRODUCT APPROVAL THAT MATCHES MIAMI DADE COUNTY PRODUCT APPROVAL.
- ROLL UP DOOR SHALL HAVE WIND LOCKS, SAFETY CLIPS AND A DOOR HOOD.
- ALL APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS (SUBMIT SHOP DRAWINGS).
- ALL STEEL PRODUCTS ASSOCIATED WITH THE DOORS SHALL BE GALVANIZED AND SHOP PRIMED FROM THE FACTORY.
- COLOR TO MATCH EXISTING AND SHALL BE APPROVED BY OWNER. CONTRACTOR SHALL SUBMIT COLOR SCHEMES WITH SHOP DRAWINGS.



EXHAUST FAN SCHEDULE																
QUANTITY	MANUFACTURER	MODEL NUMBER	SP (in wg)	VOLUME (CFM)	DRIVE	FRPM	WEIGHT (LBS)	MOTOR					SONES	MOUNTING	FAN CONTROL	REMARKS
								HP	RPM	VOLTS	PH	FLA				
3	GREENHECK	G-140-VG	0.327	1500 EACH	DIRECT	988	57	1/2	1200	115	1	6.4	7.9			1, 2, 3, 4
REMARKS 1. FAN INSTALLED PER MIAMI DADE NOA 12-0120.13 2. LOUVER TO BE INSTALLED, SEE LOUVER SCHEDULE 3. BIRD SCREEN																

LOUVER SCHEDULE								
QUANTITY	MANUFACTURER	MODEL NUMBER	ΔP* (in wg)	VOLUME (CFM)	WIDTH (in)	HEIGHT (in)	FREE AREA (ft2)	REMARKS
1	GREENHECK	EVH-501D			86.25	92.00	31.54	1, 2, 3, 4, 5
4	GREENHECK	EVH-501D			29	89.5	9.42	1, 2, 3, 4, 5
REMARKS 1. HVHZ'S LMI CERTIFIED (AMCA 540) 2. HVHZ'S WDR CERTIFIED (AMCA 550) 3. LOUVER INSTALLED PER MIAMI DADE NOA 12-0628.06 4. BUG SCREEN (W/ SS FRAME) ON EXTERIOR 5. BIRD SCREEN *ΔP DOES NOT INCLUDE LOUVER APPURTENANCES								

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PLOT DATE: May 05, 2026 - 9:39pm

Vertical Datum: NGVD29 P.A. No. WE050.00 Dwg. No. 43-41-33-07 Location: PALM BEACH COUNTY, FL			
No.	Date	By	Revision

SEAL
GARRYTT G. GRUBER
Florida P.E. No. 60721

Date

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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

**PUMP STATION NO. 4
MECHANICAL SITE
PLAN**

MAY 2026

P4-C4

SPECIFIC ELECTRICAL NOTES

- 1

PROVIDE FROM EXIST. PS PLC CP 1" CONDUIT WITH 19#14 WIRES FOR STATUS OF VFD, PROVIDE 1" CONDUIT WITH 3TSP FOR ANALOG SPEED REFERENCE AND CONTROL TO EACH VFD.
- 2

CONTRACTOR SHALL COORDINATE WITH OWNER FOR SCADA MODIFICATIONS PROGRAMMING.
- 3

CONTRACTOR SHALL EXTEND CONDUIT AT OLD IRRIGATION PUMP LOCATION TO NEW LOCATION.
- 4

EXPAND ATS HOUSEKEEPING PAD AS REQUIRED.
- 5

REUSE EXISTING CONDUITS, PROVIDE NEW WIRE, AND TERMINATIONS FOR POWER AND CONTROL FROM ATS, AND WIRING, INCLUDING 120V POWER TO BATTERY CHARGER. PROVIDE ALL GROUNDING TERMINATION AS REQUIRED.
- 6

PROVIDE RELAY CONTACT FROM GENERATOR RUNNING CONTROLS FOR EXHAUST FANS SHUT OFF.
- 7

PROVIDE 1P-20A CB FOR EXTERIOR POLE MOUNTED LIGHT.
- 8

PROVIDE 1P-20A CB FOR EXTERIOR GFCI RECEPTACLE.
- 9

PROVIDE 1P-20A CB FOR INVERTER LITHIUM BATTERY CABINET.
- 10

PROVIDE 1P-20A CB FOR EXHAUST FANS.
- 11

PROVIDE 1P-20A SPARE CB.
- 12

PROVIDE NEW CIRCUIT, 3#12 IN 3/4"C FROM EXISTING PNLBD LP. MATCH MODEL AND AIC RATING OF EXISTING CB. UPDATE PNLBD SCHEDULE.
- 13

PROVIDE PLACARD "120V POWER FROM INVERTER/BATTERY BACKUP-WARNING DISABLE BACKUP POWER AT INVERTER/BATTERY CABINET FIRST".
- 14

REUSE FORMER WIRES TO EXISTING INSTRUMENTS AND MOTORIZED ACTUATOR, EXTEND WIRES AS REQUIRED.

GENERAL ELECTRICAL NOTES

1.

ALL RACEWAY RUNS ARE SHOWN DIAGRAMMATIC. PROVIDE PULL BOXES WHERE REQUIRED BY CODE.
2.

CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT LAYOUT MEETING NEC CLEARANCES.
3.

BOND NEW GENSET TO GROUND.
4.

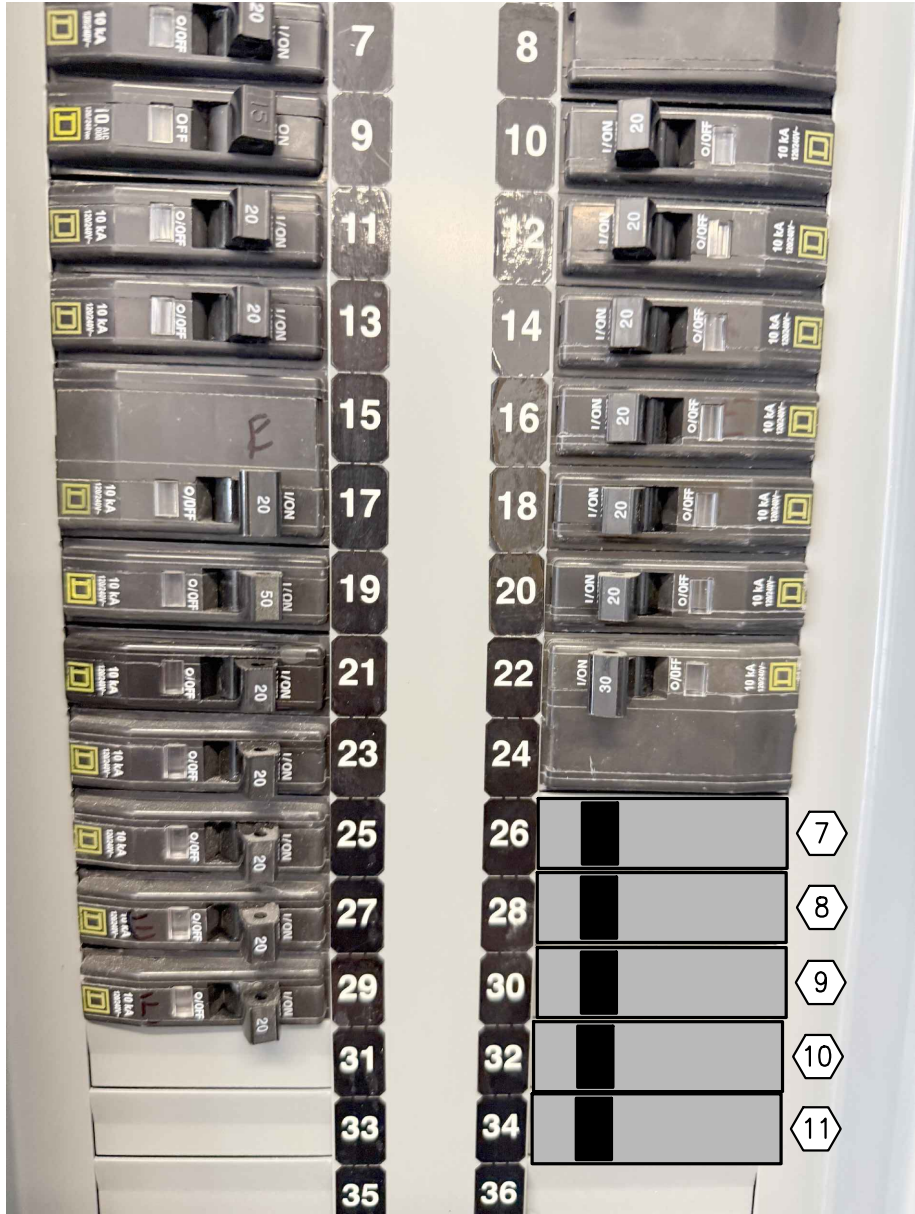
BOND MCC TO EXISTING GROUND, BOND MCC TO EXISTING GROUND. EXTEND 2/0 BONDING WIRE AS REQUIRED.
5.

CONTRACTOR SHALL CONCEAL ALL CONDUCTORS.
6.

PROVIDE MEGGER TEST RESULTS.
7.

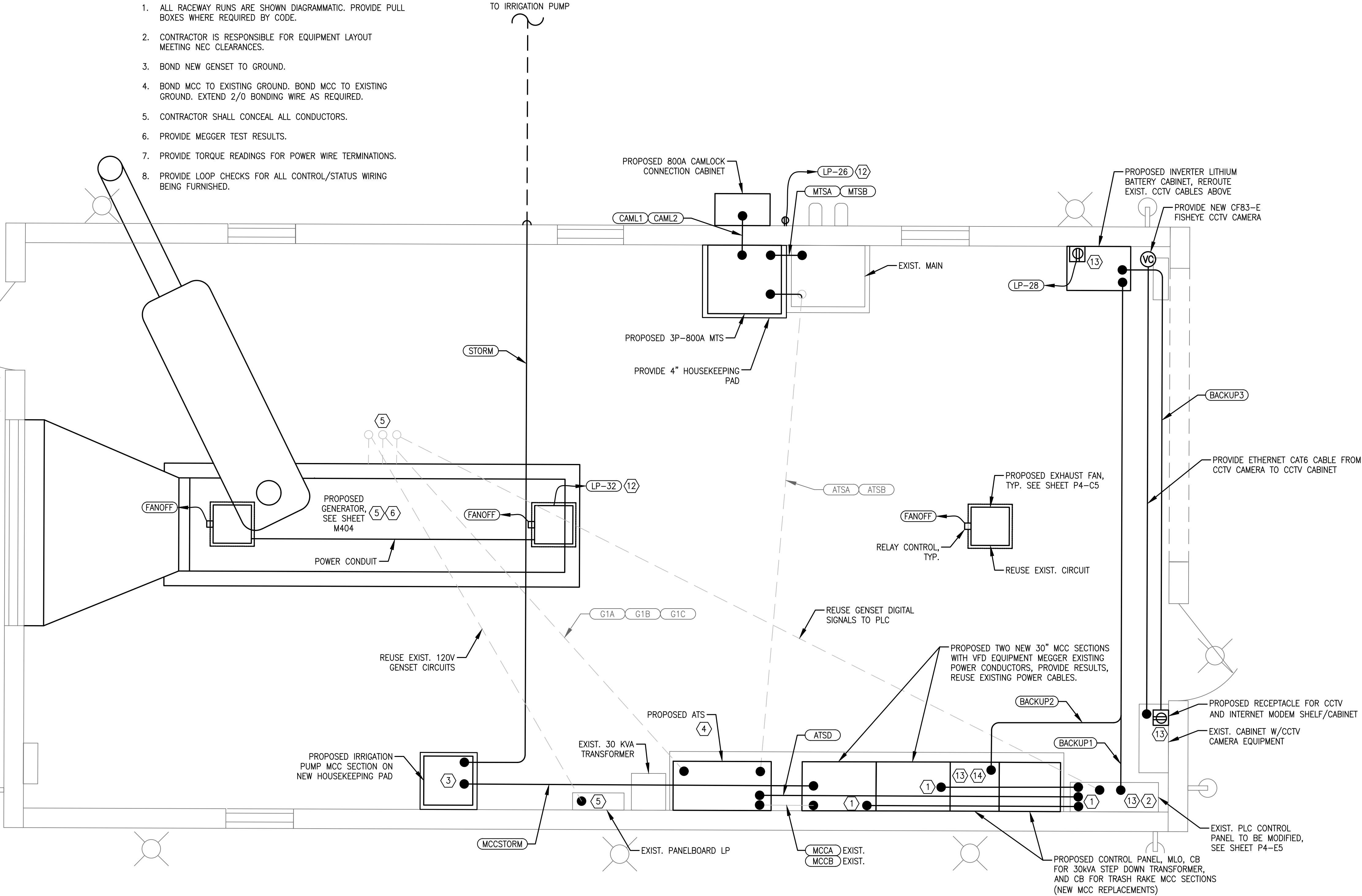
PROVIDE TORQUE READINGS FOR POWER WIRE TERMINATIONS.
8.

PROVIDE LOOP CHECKS FOR ALL CONTROL/STATUS WIRING BEING FURNISHED.



EXIST. PANELBOARD LP

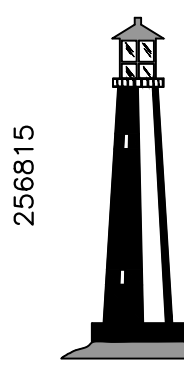
NTS.



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PLOT DATE: May 04, 2026 - 11:41 am
Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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6903 VISTA PARKWAY NORTH, SUITE 10
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REGISTRATION NUMBERS
C & W ENGINEERING INC. CA# 33315
MICHAEL A. GUIDA, P.E. 60755

SEAL
MICHAEL A. GUIDA
Florida P.E. No. 60755

Date

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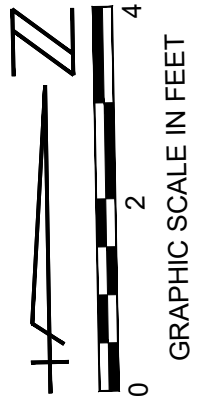
**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

**PUMP STATION NO. 4
ELECTRICAL
INSTALLATION PLAN**

MAY 2026

P4-E1

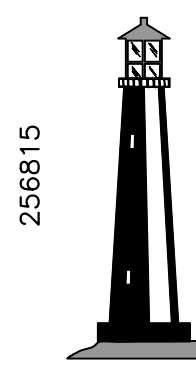


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PLOT DATE: May 04, 2026 - 11:42am

Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**
VILLAGE OF WELLINGTON

**PUMP STATION NO. 4
OVERALL LIGHTING
PLAN**

MAY 2026
P4-E2

SPECIFIC ELECTRICAL NOTES

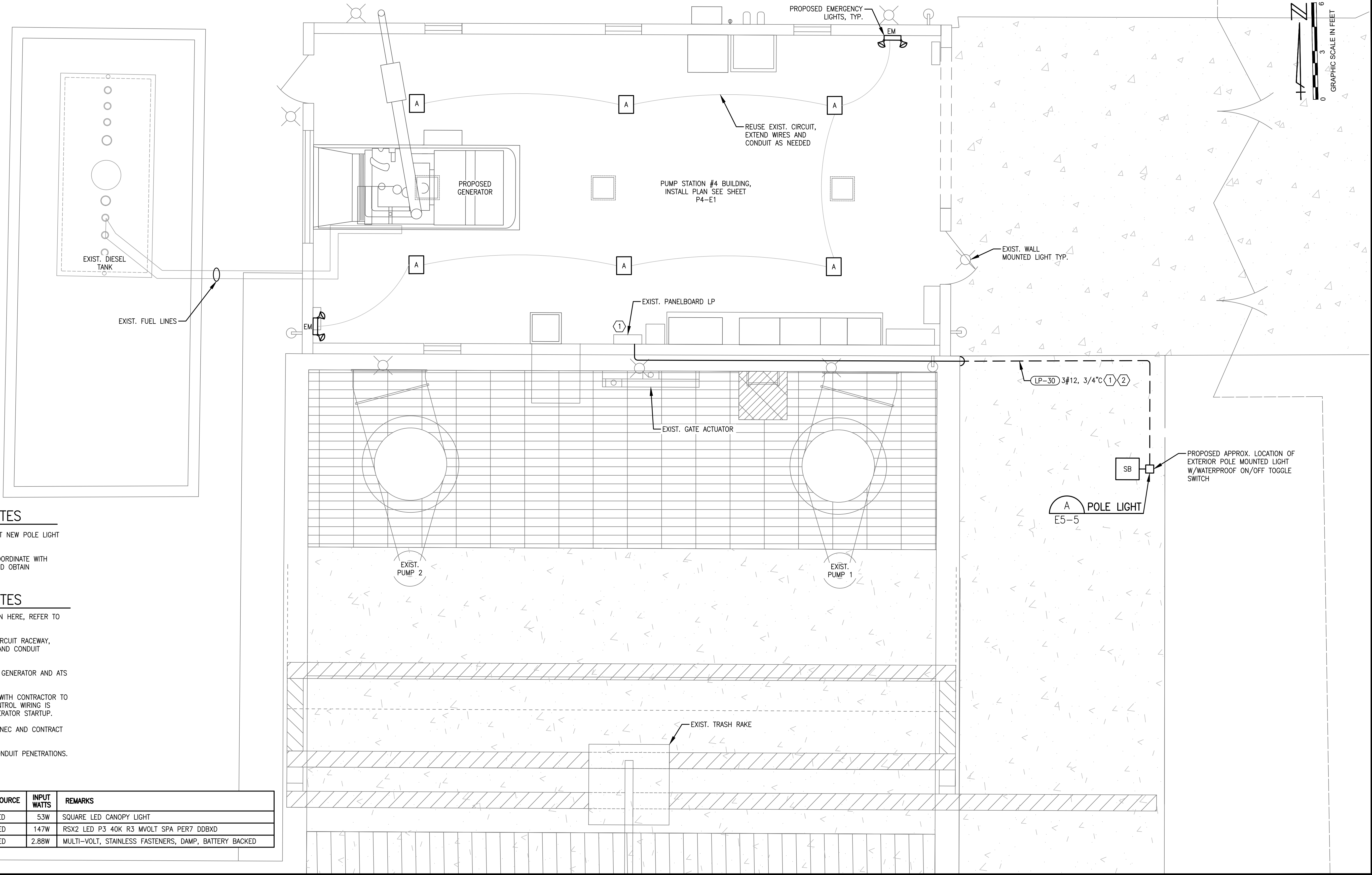
- 1) UPDATE PANELBOARD SCHEDULE TO REFLECT NEW POLE LIGHT CIRCUIT.
- 2) ROUTING IS SHOWING DIAGRAMMATICALLY. COORDINATE WITH OWNER ROUTING PRIOR TO INSTALLATION AND OBTAIN APPROVAL.

GENERAL ELECTRICAL NOTES

1. NOT ALL ELECTRICAL EQUIPMENT ARE SHOWN HERE, REFER TO OTHER DRAWINGS.
2. PROPOSED ROUTING IS SHOWN FOR NEW CIRCUIT RACEWAY, CONTRACTOR SHALL PROVIDE PULL BOXES AND CONDUIT SUPPORTS AS REQUIRED BY CODE.
3. PROVIDE GENERATOR LOAD BANK TEST FOR GENERATOR AND ATS TEST.
4. GENERATOR VENDOR FIELD TECH TO WORK WITH CONTRACTOR TO CONFIRM ALL POWER, GROUNDING, AND CONTROL WIRING IS PROPERLY CONNECTED, AND PERFORM GENERATOR STARTUP.
5. PROVIDE ALL GROUNDING AS REQUIRED BY NEC AND CONTRACT DOCUMENTS.
6. PROVIDE DUCT SEAL AT ALL ENCLOSURE CONDUIT PENETRATIONS.

FIXTURE SCHEDULE

TYPE	MANUFACTURER	SERIES	SOURCE	INPUT WATTS	REMARKS
A	C-LITE	C-CP-C-SQ-7L	LED	53W	SQUARE LED CANOPY LIGHT
SB	LITHONIA	RSX2 LED	LED	147W	RSX2 LED P3 40K R3 MVOLT SPA PER7 DDBXD
EM	LITHONIA	ELM2	LED	2.88W	MULTI-VOLT, STAINLESS FASTENERS, DAMP, BATTERY BACKED



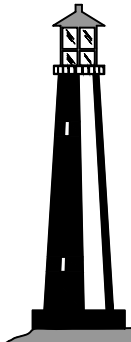
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PLOT DATE: May 04, 2026 - 11:42am

Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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256815

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SEAL

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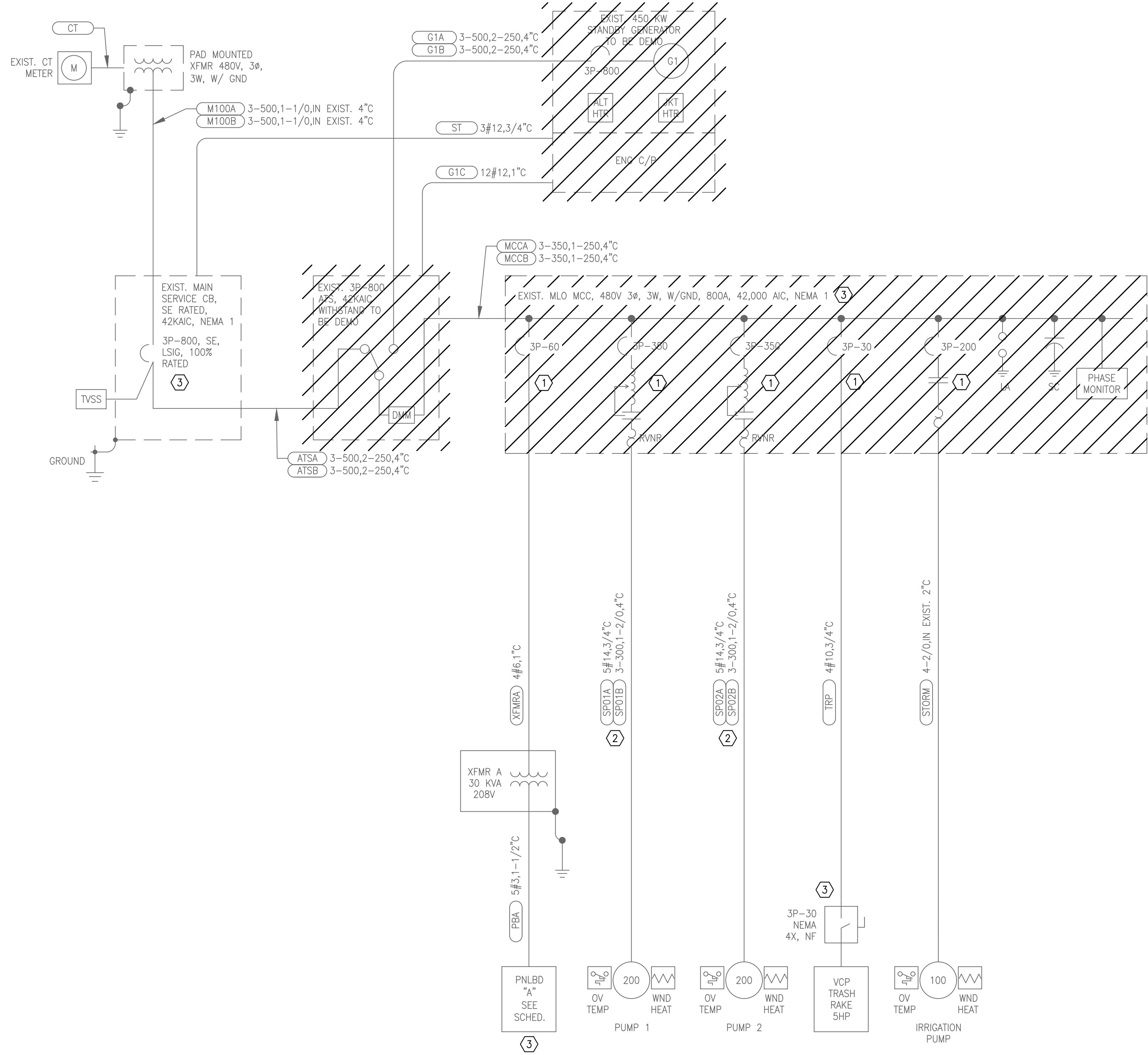
Florida Reg. No. 48
Florida L.B. No. 48

STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

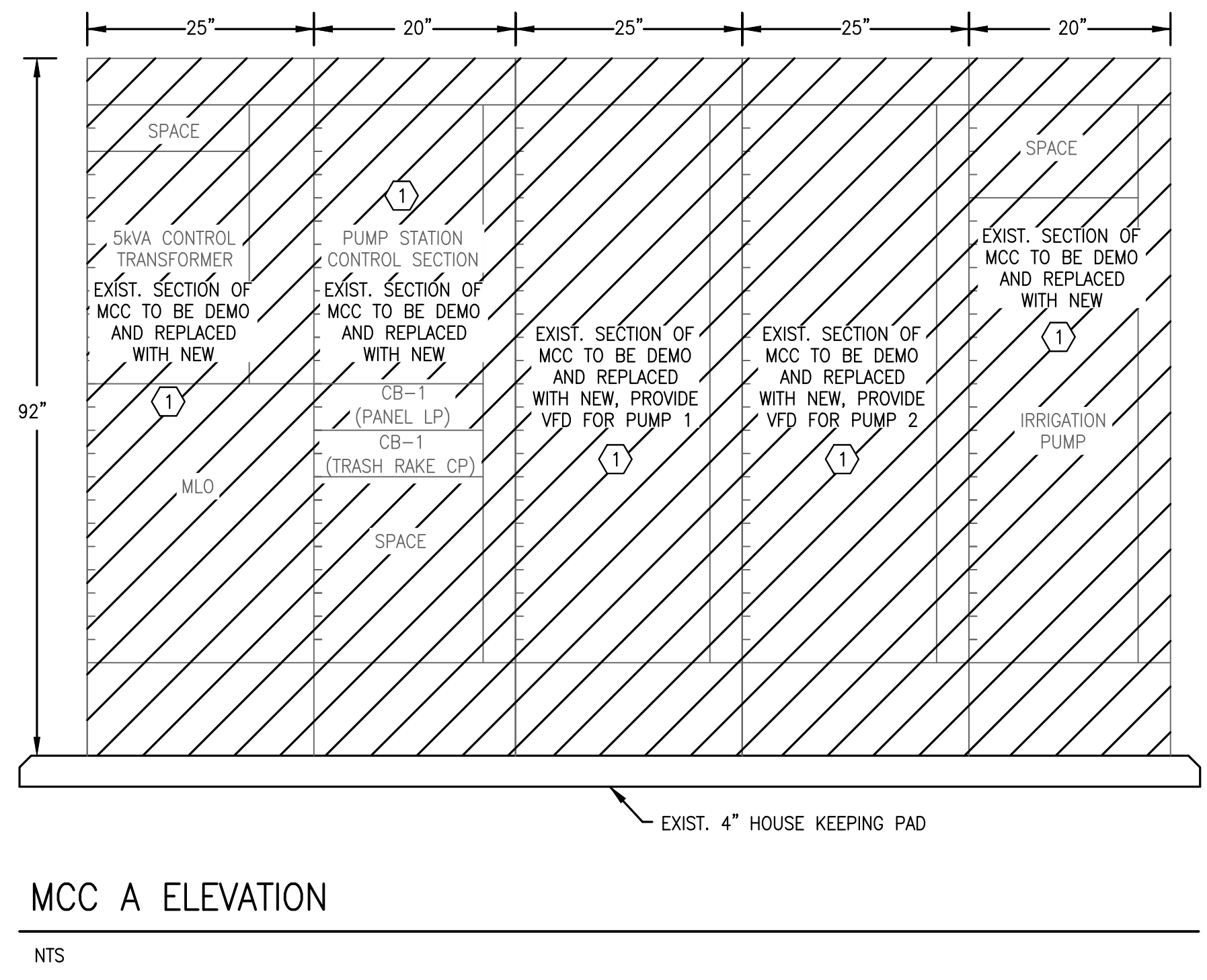
VILLAGE OF WELLINGTON

PUMP STATION NO. 4
ELECTRICAL DEMO
ONELINE

MAY 2026
P4-E3



- SPECIFIC NOTES**
- 1 REPLACE EXISTING ALL MCC SECTIONS.
 - 2 CONTRACTOR SHALL MEGGER EXISTING WIRES.
 - 3 DETAILED ARC FLASH LABELS REQUIRED.



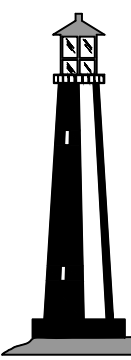
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PLOT DATE: May 04, 2026 - 11:42am

Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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256815

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SEAL
MICHAEL A. GUIDA
Florida P.E. No. 60755
Date

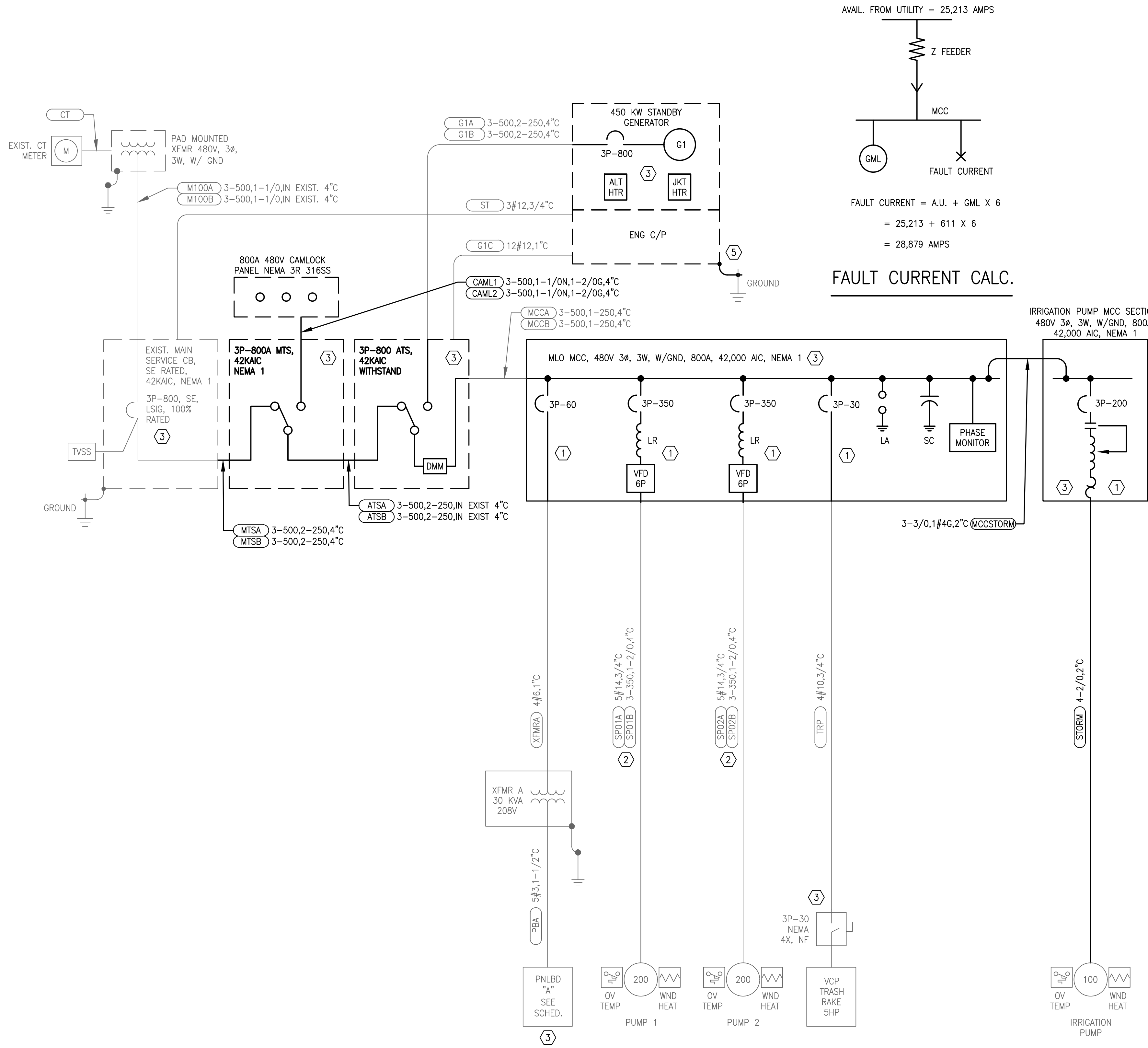
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STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS
VILLAGE OF WELLINGTON

PUMP STATION NO. 4
ELECTRICAL INSTALL
ONELINE

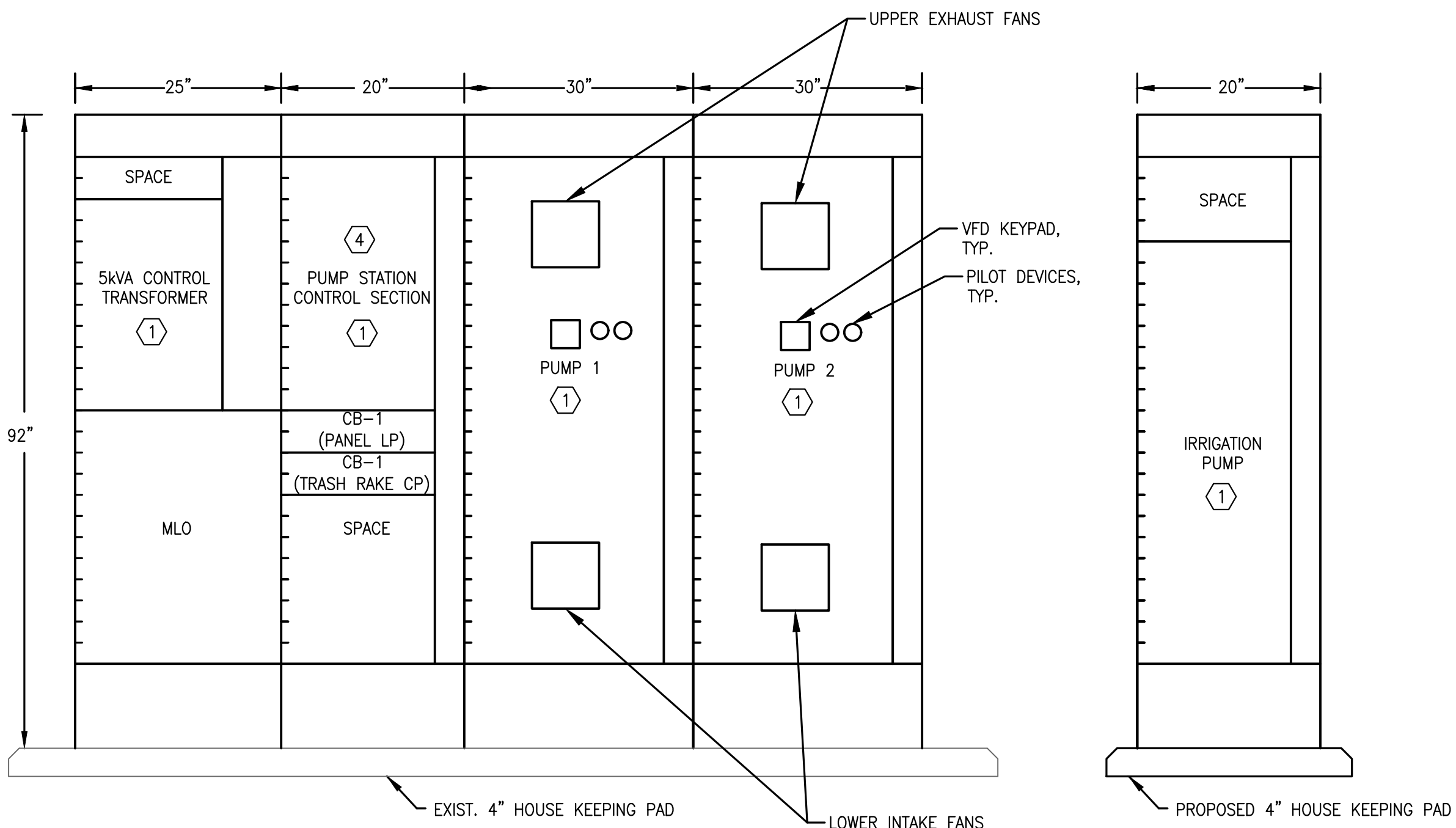
MAY 2026
P4-E4



- SPECIFIC NOTES**
- 1 REPLACED ALL MCC SECTIONS. PROVIDE ALL POWER, CONTROL, AND GROUNDING CONNECTIONS AS REQUIRED, REUSE FORMER PUMP WIRES.
 - 2 CONTRACTOR SHALL MEGGER EXISTING WIRES.
 - 3 DETAILED ARC FLASH LABELS REQUIRED.
 - 4 PROVIDE MCC CONTROL SECTION EQUAL TO FORMER MCC CONTROL SECTION. (BY I/C CONTRACTOR, SEE OTHER DRAWINGS).
 - 5 PROVIDE GROUNDING TO GENERATOR, BOND 1/0 CU TO EXISTING GROUNDING SYSTEM (NOT SHOWN ON PLANS.)

LOAD CALCULATION	
DESCRIPTION	AMPS
STORM WTR PUMP 1	240
STORM WTR PUMP 2	240
100HP IRRIGATION PUMP	124
XFMR A	36
TRASH RAKE	7
25% OF LARGEST MOTOR	60
TOTAL	707
EXISTING SERVICE	760 AMPS

NO NEW 480V LOADS BEING ADDED.
MISCELLANEOUS INVERTER/CHARGING LOAD LESS THAN 3AMPS.



CADD File: \\10.1.10.26\caw\dropbox\JOBS\68-mock-roos\25681's village of wellington phase 1 pump station improvements\DRAWINGS\P4-E5 PLC MODIFICATION DETAILS P5.dwg
PLOT DATE: May 04, 2026 - 11:42am

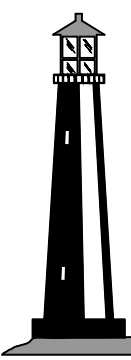
Bar is equal to one inch on original drawing

Adjust all scaled dimensions accordingly

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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256815

**C&W engineering**
ELECTRICAL CONSULTANTS
6903 VISTA PARKWAY NORTH, SUITE 10
WEST PALM BEACH, FL. 33411
(561) 642-5333
REGISTRATION NUMBERS
C & W ENGINEERING INC. CA# 33315
MICHAEL A. GUIDA, P.E. 60755

SEAL

MICHAEL A. GUIDA
Florida P.E. No. 60755

Date

MOCK•ROOS
CONSULTING ENGINEERS

5720 Corporate Way, West Palm Beach, Florida 33407
(561) 683-3113, www.MockRoos.com

Florida Reg. No. 48

Florida L.B. No. 48

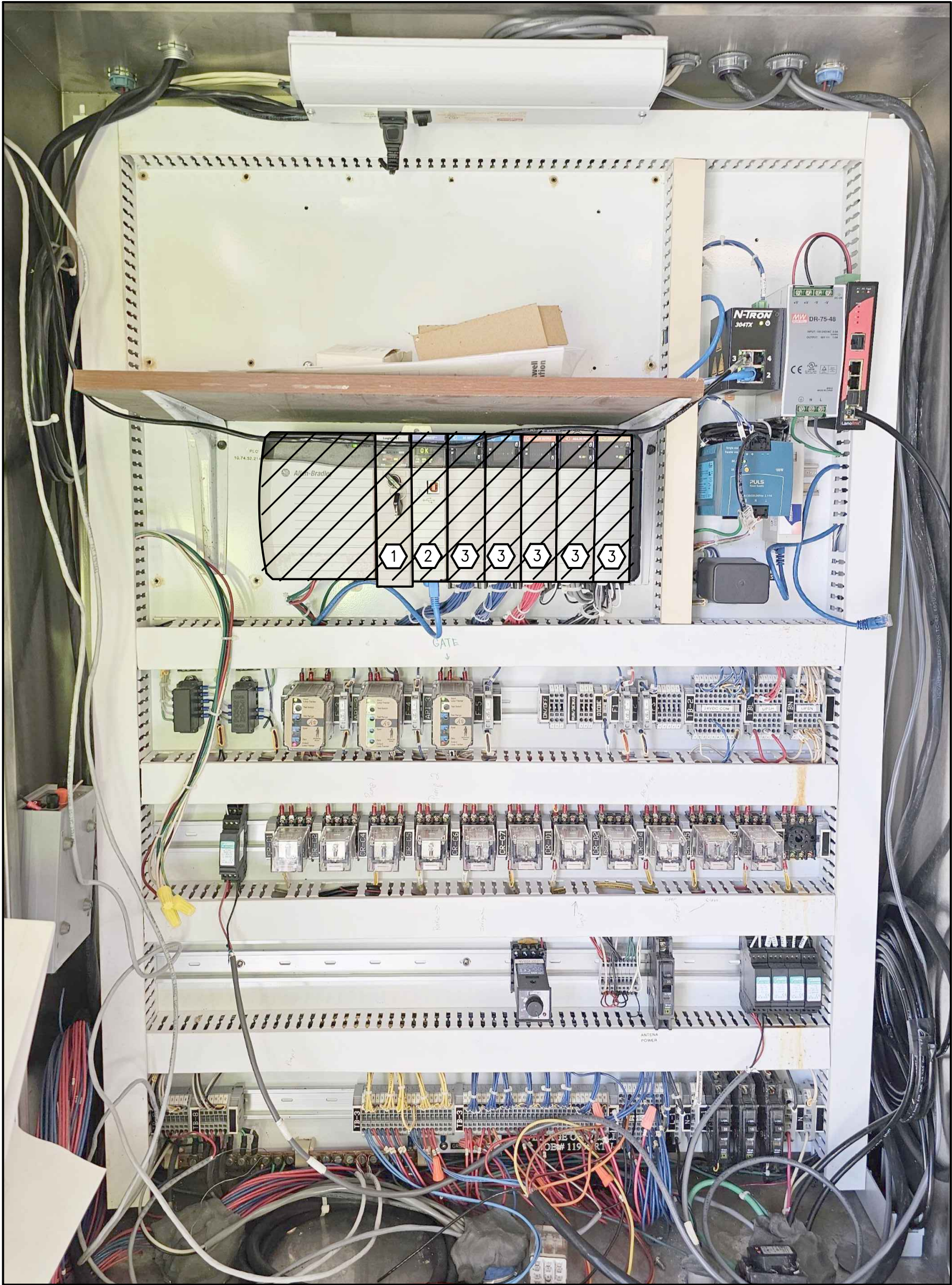
STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

PUMP STATION NO. 4
PLC MODIFICATION
DETAILS

MAY 2026

P4-E5



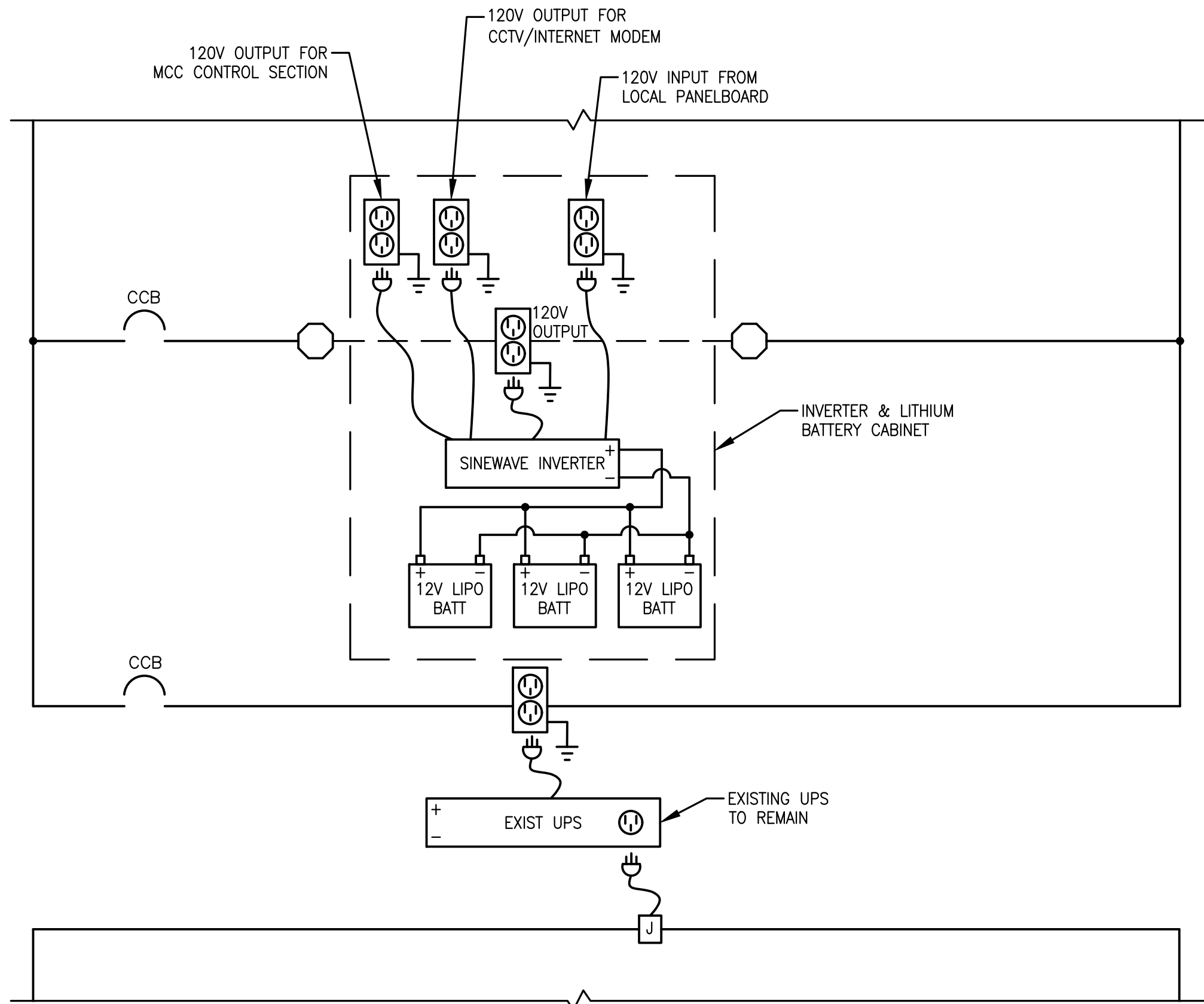
PUMP STATION NO. 4 PLC MODIFICATION DETAILS

GENERAL ELECTRICAL NOTES

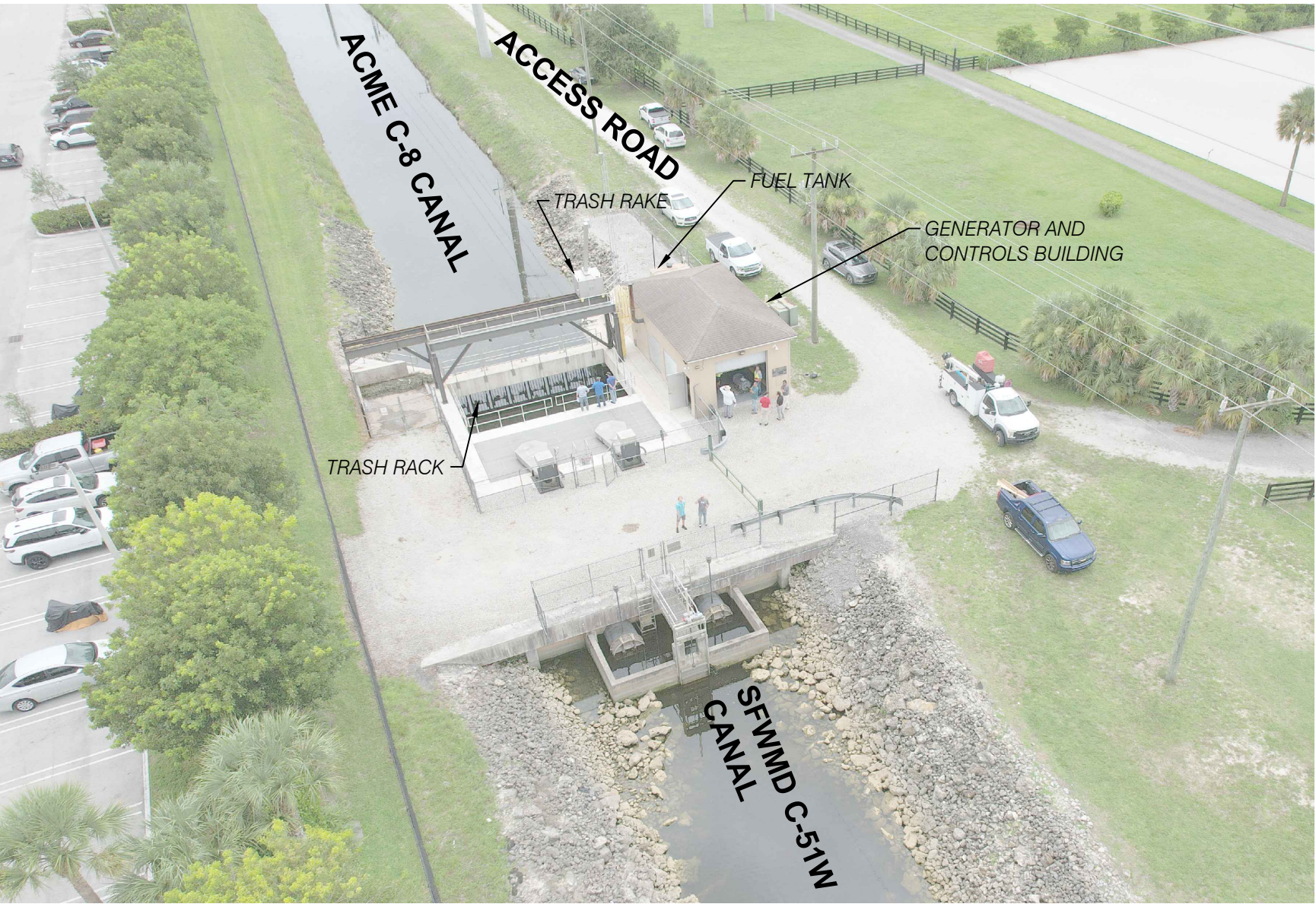
- CONTRACTOR SHALL DOWNLOAD THE PLC PROGRAM FROM THE EXISTING PLC.
- CONTRACTOR SHALL COORDINATE WITH STAFF TO SHUT DOWN EXISTING PLC CONTROL PANEL POWER, AND ALLOW FOR POWER SUPPLIES TO DISCHARGE.
- AFTER NEW CARDS AND MODULES ARE INSTALLED, POWER SUPPLIES AND CONTROL PANEL SHALL BE POWERED UP AND EQUIPMENT TESTED.
- CONTRACTOR SHALL CONNECT TO CPU AND INSTALL PLC PROGRAM.
- AFTER PROGRAM IS INSTALLED, PLC SHALL BE REBOOTED AND TESTED TO ENSURE THE PLC IS WORKING PROPERLY AND SCADA IS RECEIVING STATUS OF THE I/O CONNECTED TO THE PLC.

SPECIFIC ELECTRICAL NOTES

- REPLACE EXIST. L61 CPU MODULE WITH NEW L81 CPU MODULE, INCLUDING NEW POWER MODULE.
- REPLACE EXIST. COMM MODULE WITH NEW COMM MODULE.
- REPLACE EXIST. DIGITAL AND ANALOG I/O CARDS WITH NEW DIGITAL AND ANALOG I/O CARDS. RE-LAND I/O TO SAME TERMINAL POSITIONS AS FORMER MODULES.



NOTE: ABOVE ARE PROPOSED MODIFICATIONS TO EXISTING PLC CONTROLS TO PROVIDE BACKUP POWER, OVER EXTENDED PERIODS OF NO RAIN AND NO UTILITY POWER, SEE SPECIFICATIONS.



1
P6-C1 AERIAL PHOTO FACING SOUTH
NTS

- NOTES:
- CONTRACTOR TO ACCESS THE SITE FROM THE SOUTH ACCESS GATE LOCATED AT THE EAST END OF ACME RD.
 - MAP LINEWORK AND CADD INFORMATION ON THIS SHEET IS SHOWN FOR GRAPHICAL PURPOSES ONLY AND NOT MEANT TO ACCURATELY REFLECT SITE CONDITIONS OR REPRESENT SURVEY INFORMATION.

WELLINGTON STORMWATER PUMP STATION NO. 6 INFORMATION					
CONTROL STRUCTURE FEATURE	INTAKE WATER	RECEIVING WATER	PUMP CAPACITY (GPM)	VFD	PUMP OPERATION (NGVD)
PUMP 1	C-8	C-51W	62,000	Y	ON @ 12.2'
PUMP 2	C-8	C-51W	62,000	N	OFF @ 12.0'
GRAVITY DISCHARGE GATE					

CADD File: F:\well\p1\cadd\dwg\p1\cs01_M301 - OVERALL SITE.dwg
PLOT DATE: May 05, 2026 - 9:39pm

Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
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Dwg. No.
43-41-33-07
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PALM BEACH COUNTY, FL

No.	Date	By	Revision
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SEAL
GARRYTT G. GRUBER
Florida P.E. No. 60721

Date

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STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

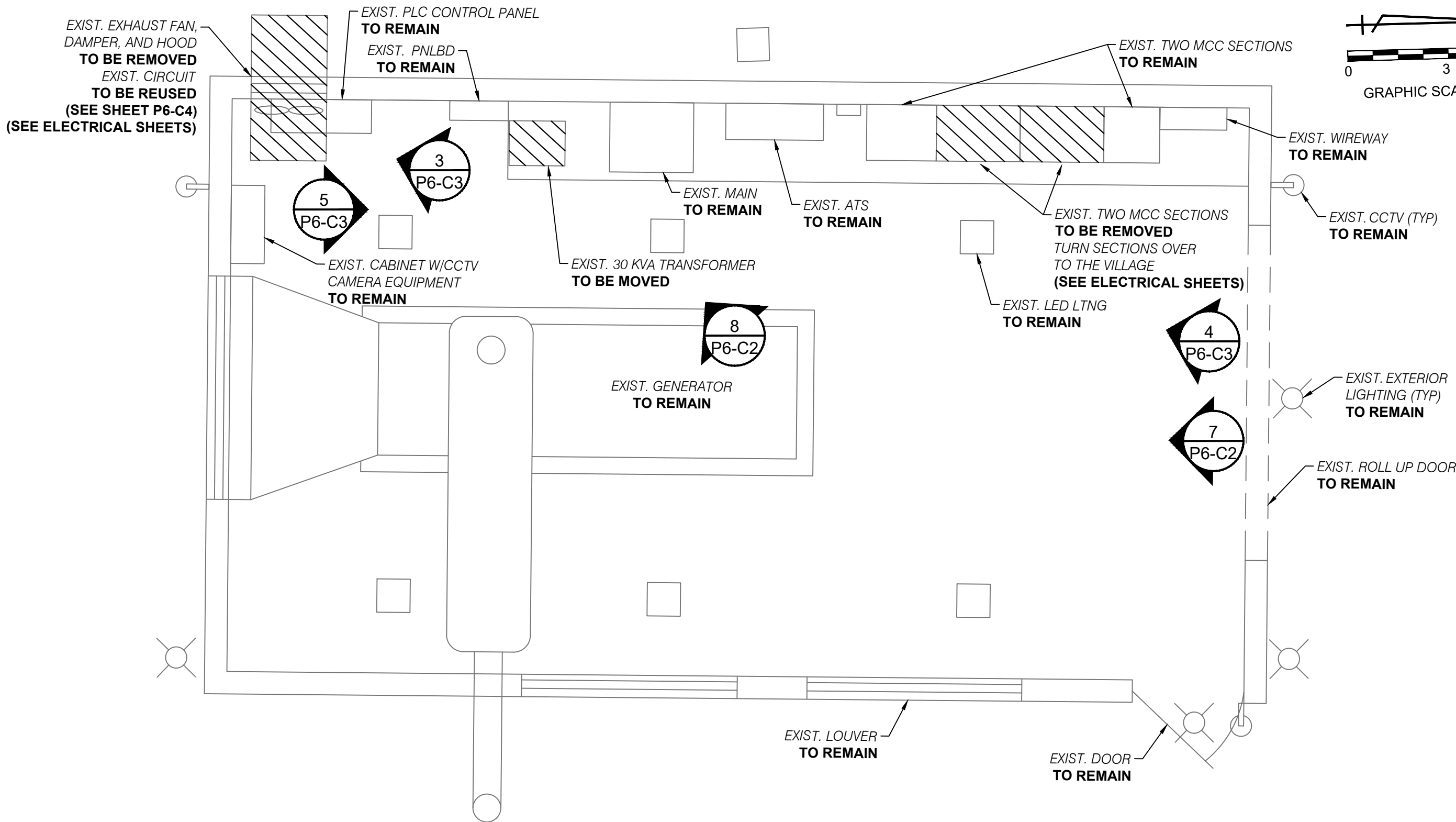
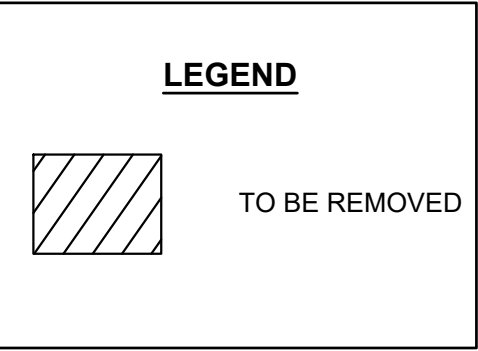
PUMP STATION NO. 6
OVERALL SITE PLAN

MAY 2026

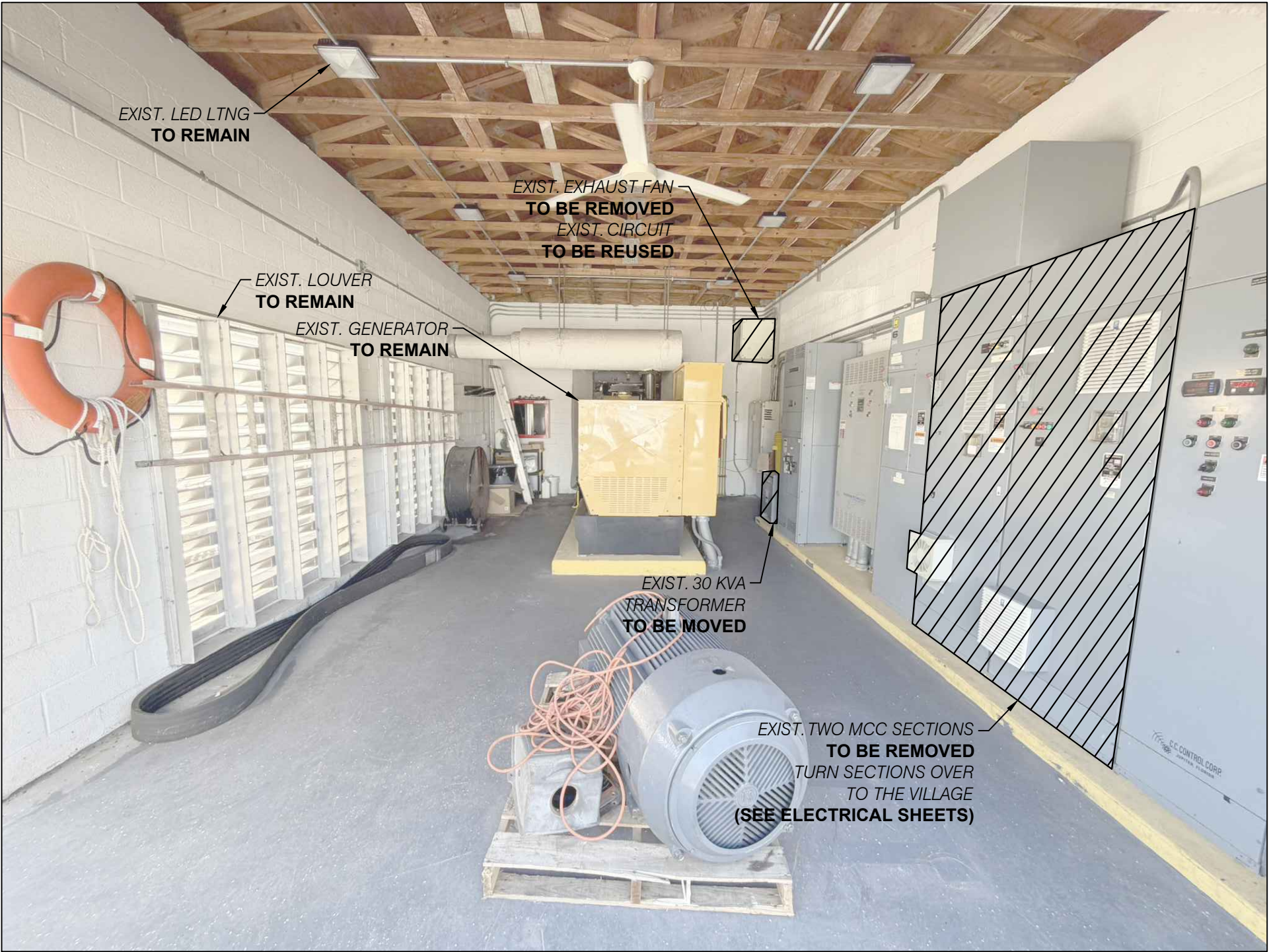
P6-C1

NOTES:

1. WHEN DEMOLISHING LIGHTING FIXTURES EXISTING LIGHTING CIRCUITS TO REMAIN AND TO BE REUSED WITH NEW FIXTURES.
2. EXISTING EQUIPMENT NOT BEING DEMOLISHED IS TO REMAIN AND BE PROTECTED.
3. MAJOR COMPONENTS ARE SHOWN WITH A DEMOLITION HATCH. MISCELLANEOUS CONDUIT, WIRE, CONCRETE, ETC. ARE TO BE REMOVED AS NEEDED TO COMPLETE THE WORK.



1 PUMP STATION NO. 6 DEMOLITION PLAN
P6-C2 NTS



7 SITE PHOTO FACING SOUTH
P6-C2 NTS



8 SITE PHOTO FACING SOUTH WEST
P6-C2 NTS

CADD File: F:\well\p1\CADD\DWG\ISP\1CS01_M303 - MECHANICAL DEMO PLAN.dwg
PLOT DATE: May 05, 2026 - 9:39pm

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
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No.	Date	By	Revision
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SEAL
GARRYTT G. GRUBER
Florida P.E. No. 60721

Date

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STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

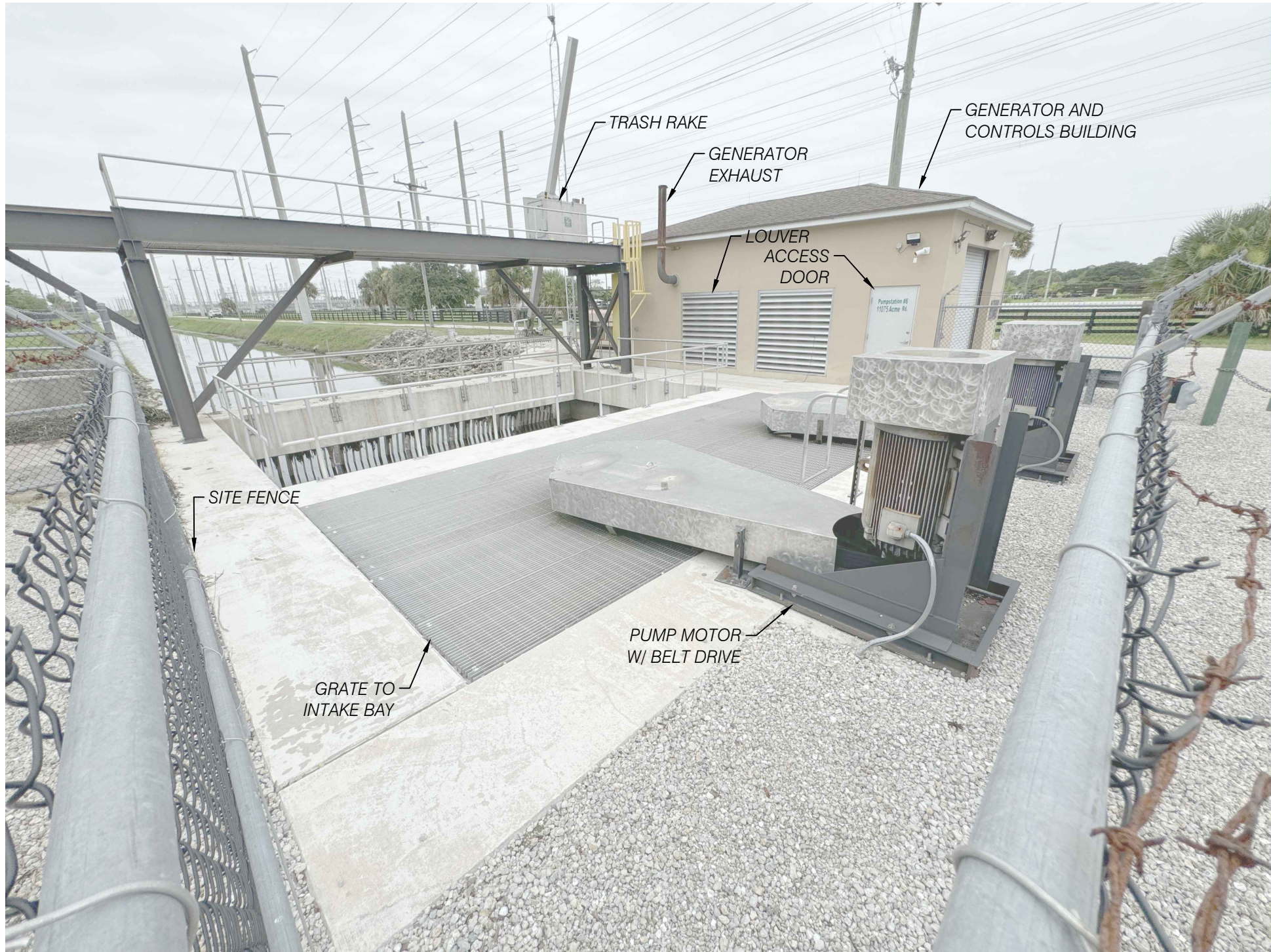
PUMP STATION NO. 6
DEMOLITION PLAN

MAY 2026

P6-C2



1 SITE PHOTO
P6-C3 NTS



2 SITE PHOTO
P6-C3 NTS



3 SITE PHOTO
P6-C3 NTS



4 SITE PHOTO
P6-C3 NTS



5 SITE PHOTO
P6-C3 NTS



6 SITE PHOTO
P6-C3 NTS

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PLOT DATE: May 05, 2026 - 9:34pm

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
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No.	Date	By	Revision
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SEAL
GARRYTT G. GRUBER
Florida P.E. No. 60721

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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

**PUMP STATION NO. 6
EXISTING SITE
PHOTOS**

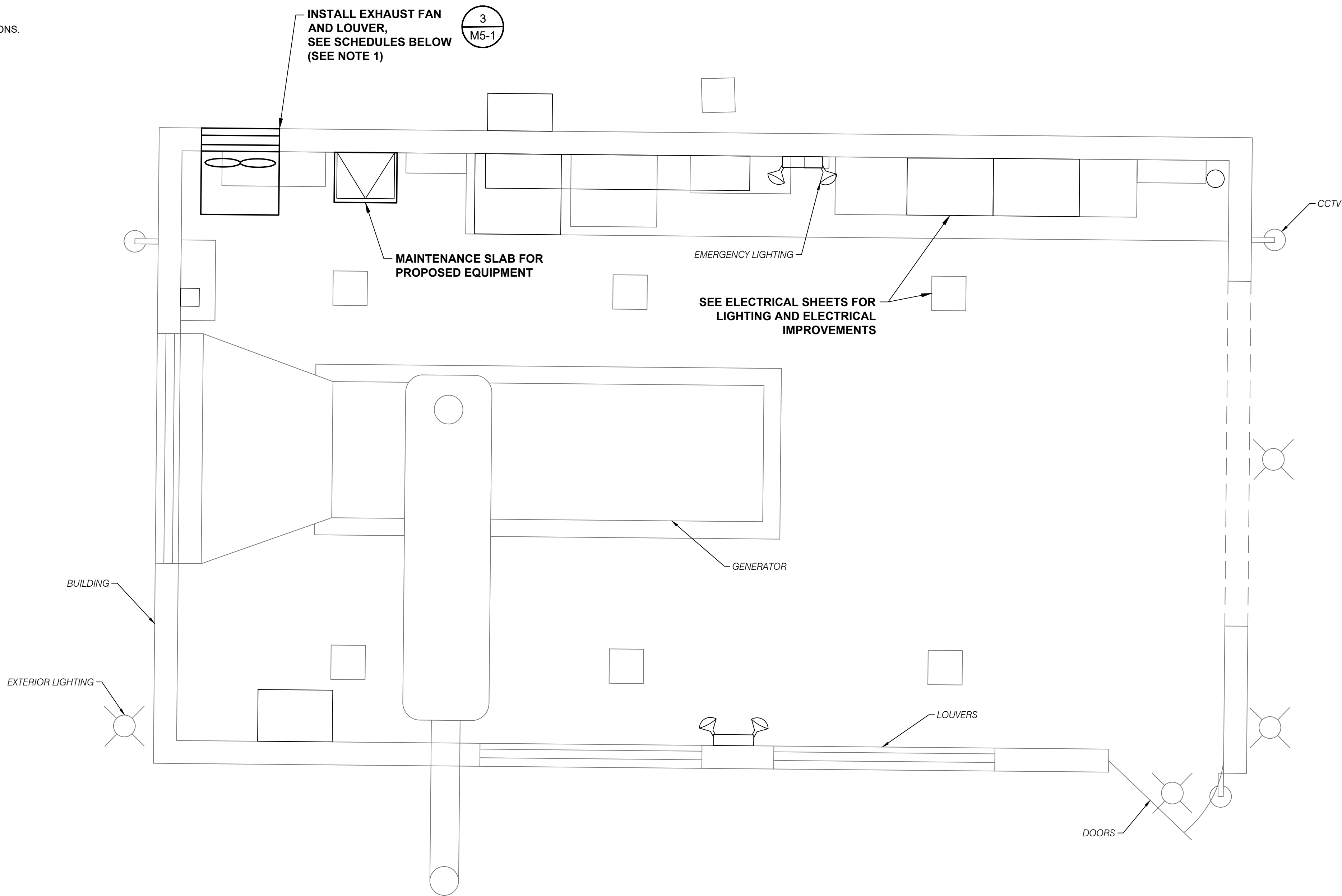
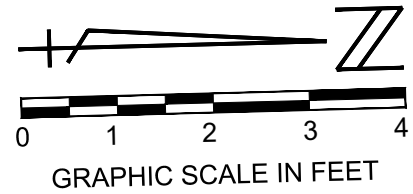
MAY 2026

P6-C3

CADD File: F:\well\p1\CADD\DWG\ISP\1CS01_M304 - MECHANICAL PLANS.dwg
PLOT DATE: May 05, 2026 - 9:34pm

NOTES:

1. EXHAUST FANS TO INCLUDE INTEGRAL DISCONNECT SWITCH (1 REQUIRED)
(SUBMIT SHOP DRAWINGS)
2. INSTALL EXHAUST FAN AND LOUVER PER MANUFACTURER'S RECOMMENDATIONS.



EXHAUST FAN SCHEDULE																
QUANTITY	MANUFACTURER	MODEL NUMBER	SP (in wg)	VOLUME (CFM)	DRIVE	FRPM	WEIGHT (LBS)	MOTOR					SONES	MOUNTING	FAN CONTROL	REMARKS
								HP	RPM	VOLTS	PH	FLA				
1	GREENHECK	SBE-1H20-5	0.5	2000	BELT	1162	159	1/2	1725	115	1	9.8	19.6			1, 2
REMARKS																
1. FAN INSTALLED PER MIAMI DADE NOA 12-0120.13																
2. LOUVER TO BE INSTALLED, SEE LOUVER SCHEDULE																

LOUVER SCHEDULE								
QUANTITY	MANUFACTURER	MODEL NUMBER	ΔP* (in wg)	VOLUME (CFM)	WIDTH (in)	HEIGHT (in)	FREE AREA (ft2)	REMARKS
1	GREENHECK	EVH-501D			28	28	2.48	1, 2, 3, 4, 5
REMARKS 1. HVHZ'S LMI CERTIFIED (AMCA 540) 2. HVHZ'S WDR CERTIFIED (AMCA 550) 3. LOUVER INSTALLED PER MIAMI DADE NOA 12-0628.06 4. BUG SCREEN 5. BIRD SCREEN *ΔP DOES NOT INCLUDE LOUVER APPURTENANCES								

Vertical Datum:
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Date

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STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

PUMP STATION NO. 6
MECHANICAL & CIVIL
IMPROVEMENTS

MAY 2026

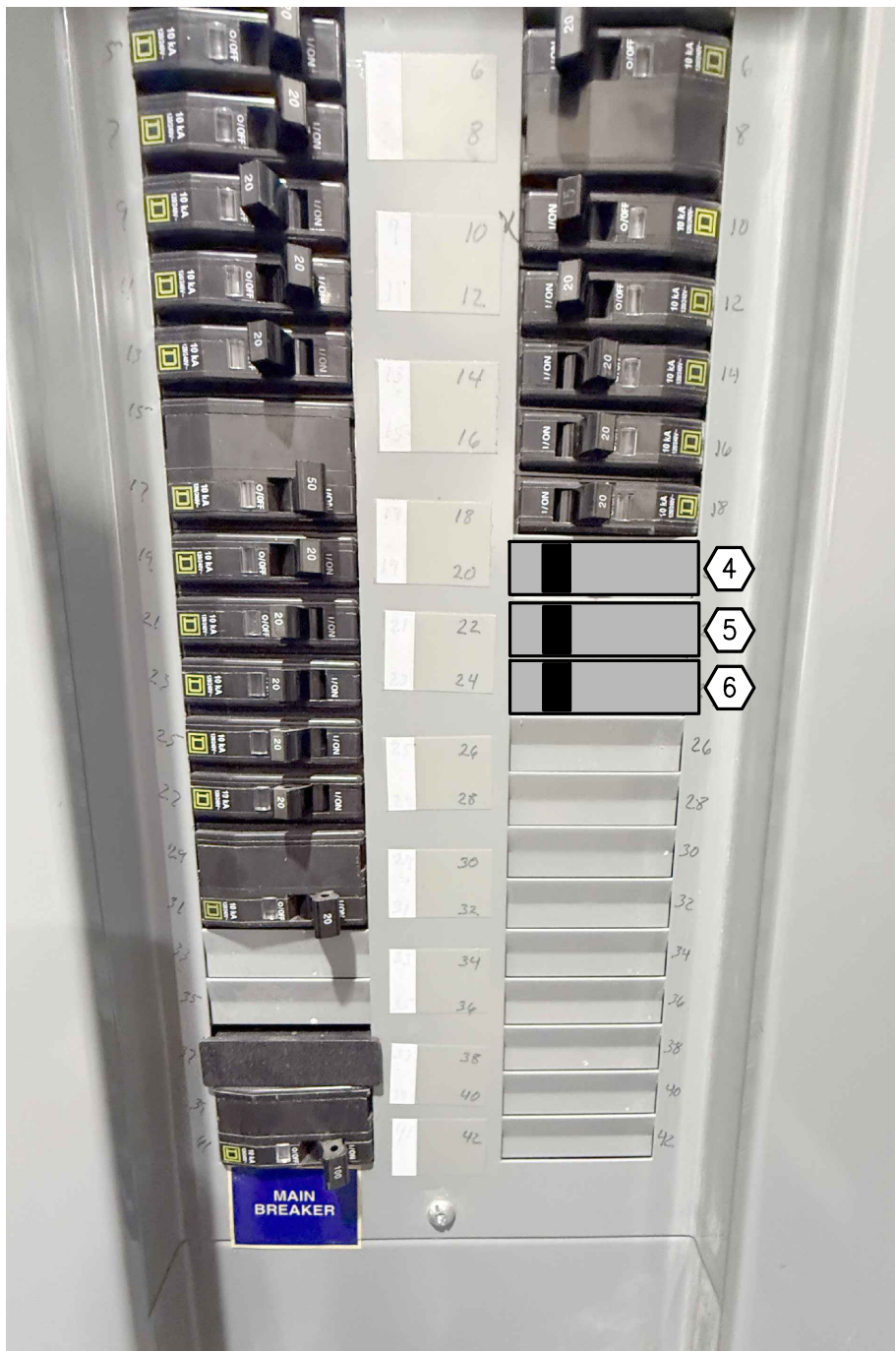
P6-C4

SPECIFIC ELECTRICAL NOTES

- 1) PROVIDE FROM EXIST. PS PLC CP 1" CONDUIT WITH 19#14 WIRES FOR STATUS OF VFD, PROVIDE 1" CONDUIT WITH 2TSP FOR ANALOG SPEED REFERENCE AND CONTROL TO EACH VFD (CONDUIT NOT SHOWN ON PLAN).
- 2) CONTRACTOR SHALL COORDINATE WITH OWNER FOR SCADA PROGRAMMER.
- 3) PROVIDE 120V RELAY TO KILL FAN CIRCUIT WHEN GENERATOR RUNS, PROVIDE NEMA 1 ENCLOSURE.
- 4) PROVIDE 1P-20A CB FOR EXTERIOR GFCI RECEPTACLE.
- 5) PROVIDE 1P-20A CB FOR INVERTER LITHIUM BATTERY CABINET.
- 6) PROVIDE 1P-20A CB FOR EXTERIOR POLE MOUNTED LIGHT.
- 7) PROVIDE PLACARD "120V POWER FROM INVERTER/BATTERY BACKUP-WARNING DISABLE BACKUP POWER AT INVERTER/BATTERY CABINET FIRST".

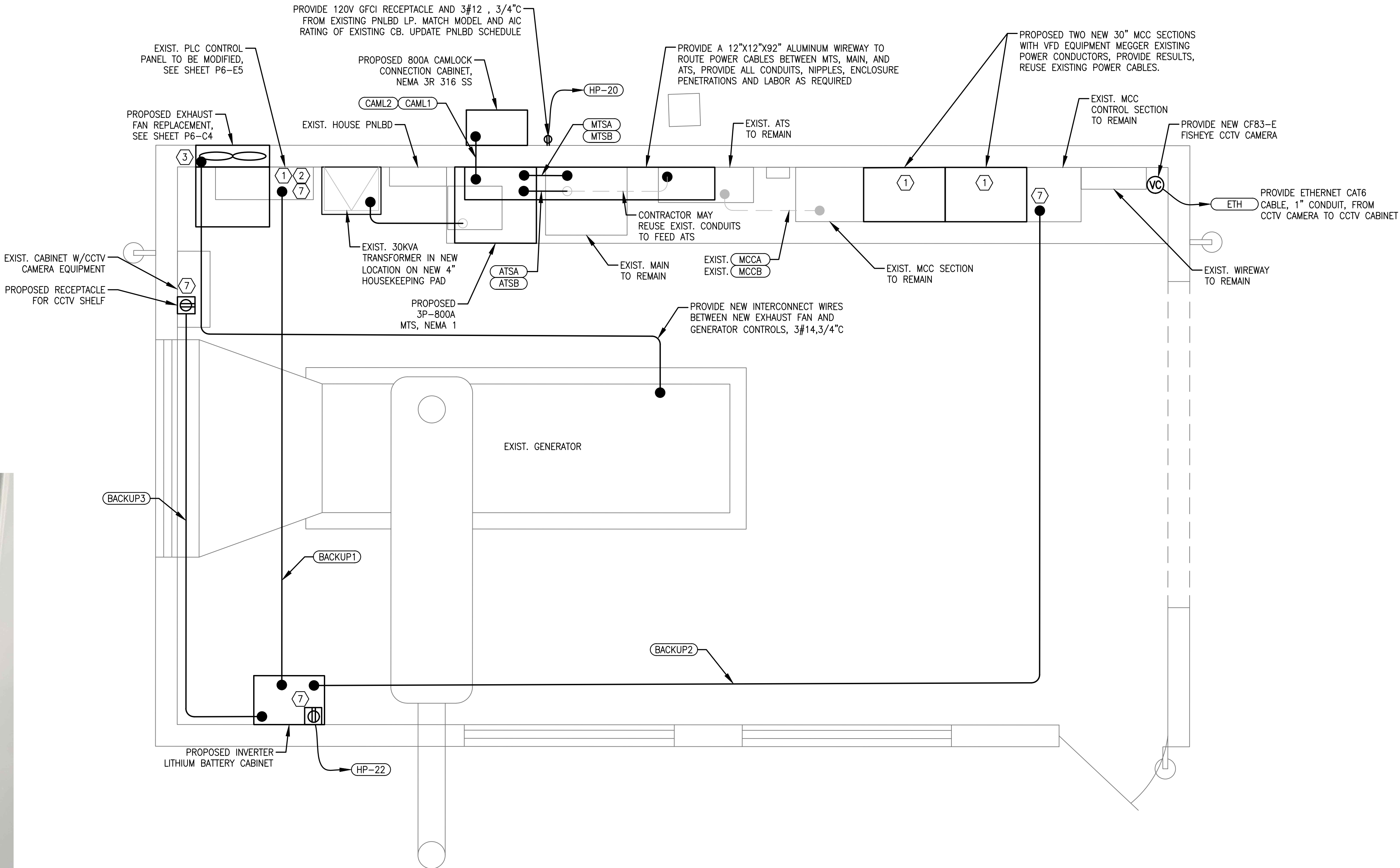
GENERAL ELECTRICAL NOTES

- 1. ALL RACEWAY RUNS ARE SHOWN DIAGRAMMATIC. PROVIDE PULL BOXES WHERE REQUIRED BY CODE.
- 2. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT LAYOUT MEETING NEC CLEARANCES.
- 3. BOND MCC TO EXISTING GROUND. EXTEND 2/0 BONDING WIRE AS REQUIRED.
- 4. CONTRACTOR SHALL CONCEAL ALL CONDUCTORS.
- 5. PROVIDE MEGGER TEST RESULTS.
- 6. PROVIDE TORQUE READINGS FOR POWER WIRE TERMINATIONS.
- 7. PROVIDE LOOP CHECKS FOR ALL CONTROL/STATUS WIRING BEING FURNISHED.



EXIST. HOUSE PANEL

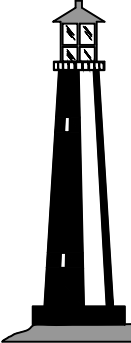
NTS.



CADD File: \\10.1.10.26\c\w\dropbox\j\08-mock-roos\256815 village of wellington phase 1 pump station improvements\drawings\p6-e1 ELECTRICAL INSTALL PLAN PS-6.dwg
PLOT DATE: May 04, 2026 - 11:42am
Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
P.A. No.
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C&W engineering
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REGISTRATION NUMBERS
C & W ENGINEERING INC. CA# 33315
MICHAEL A. GUIDA, P.E. 60755

SEAL
MICHAEL A. GUIDA
Florida P.E. No. 60755
Date

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Florida Reg. No. 48 Florida L.B. No. 48

STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS
VILLAGE OF WELLINGTON

PUMP STATION NO. 6
ELECTRICAL
INSTALLATION PLAN

MAY 2026
P6-E1

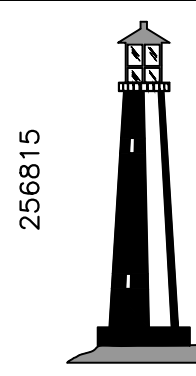
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PLOT DATE: May 04, 2026 - 11:42am

Bar is equal to one inch on original drawing

Agree all scaled dimensions accordingly

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

**PUMP STATION NO. 6
OVERALL LIGHTING
PLAN**

MAY 2026

P6-E2

GENERAL ELECTRICAL NOTES

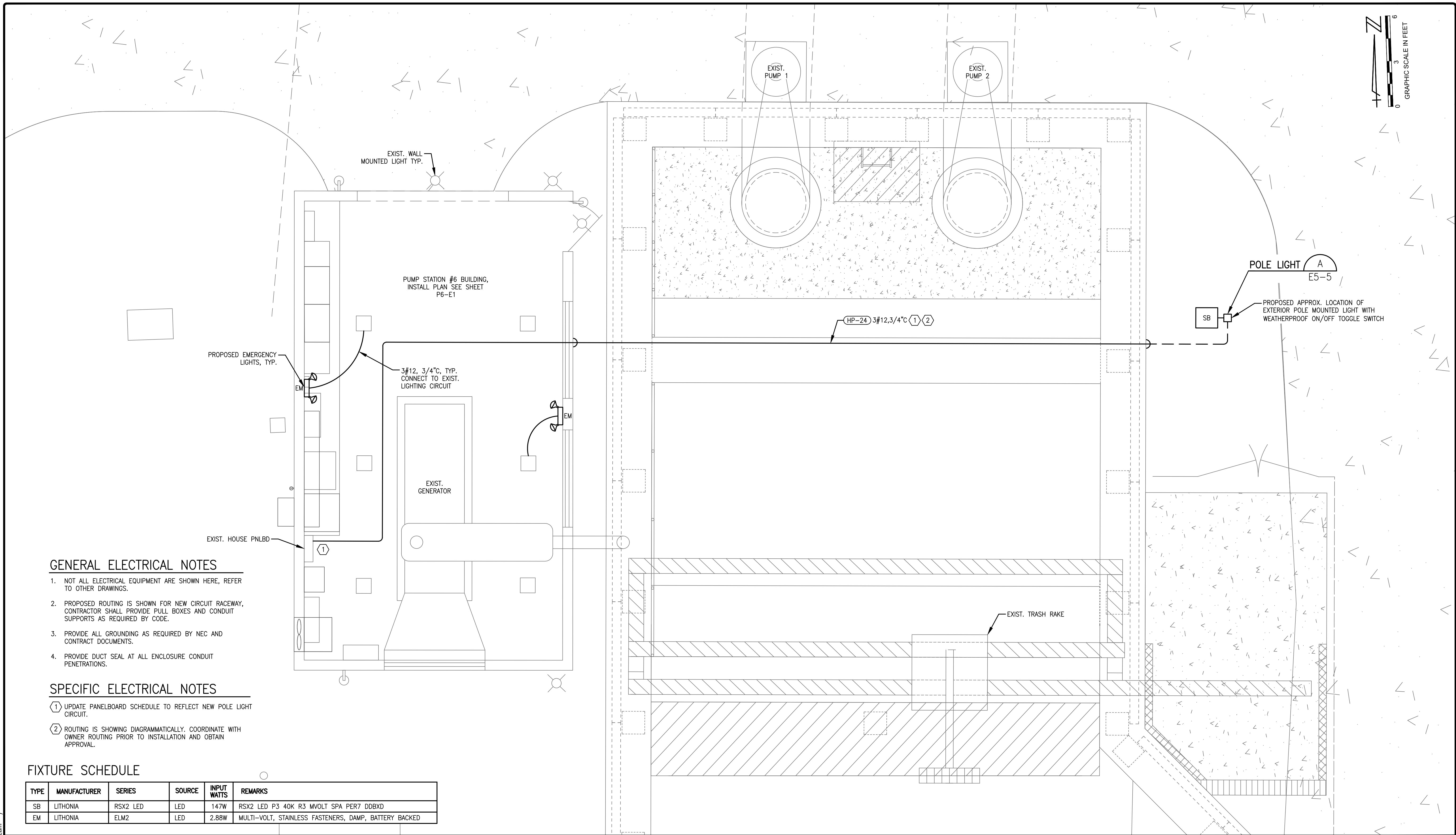
1. NOT ALL ELECTRICAL EQUIPMENT ARE SHOWN HERE, REFER TO OTHER DRAWINGS.
2. PROPOSED ROUTING IS SHOWN FOR NEW CIRCUIT RACEWAY, CONTRACTOR SHALL PROVIDE PULL BOXES AND CONDUIT SUPPORTS AS REQUIRED BY CODE.
3. PROVIDE ALL GROUNDING AS REQUIRED BY NEC AND CONTRACT DOCUMENTS.
4. PROVIDE DUCT SEAL AT ALL ENCLOSURE CONDUIT PENETRATIONS.

SPECIFIC ELECTRICAL NOTES

- 1 UPDATE PANELBOARD SCHEDULE TO REFLECT NEW POLE LIGHT CIRCUIT.
- 2 ROUTING IS SHOWING DIAGRAMMATICALLY. COORDINATE WITH OWNER ROUTING PRIOR TO INSTALLATION AND OBTAIN APPROVAL.

FIXTURE SCHEDULE

TYPE	MANUFACTURER	SERIES	SOURCE	INPUT WATTS	REMARKS
SB	LITHONIA	RSX2 LED	LED	147W	RSX2 LED P3 40K R3 MVOLT SPA PER7 DBBXD
EM	LITHONIA	ELM2	LED	2.88W	MULTI-VOLT, STAINLESS FASTENERS, DAMP, BATTERY BACKED





- ① REPLACE EXISTING MCC SECTIONS.
- ② CONTRACTOR SHALL MEGGER EXISTING WIRES.
- ③ DETAILED ARC FLASH LABELS REQUIRED.



NTS

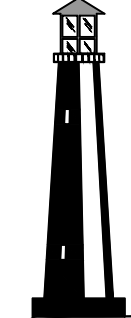
No.	Date	By	Revision
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PLOT DATE: May 04, 2026 - 11:42am

Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
P.A. No.
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43-41-33-07
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256815

C&W engineering

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SEAL

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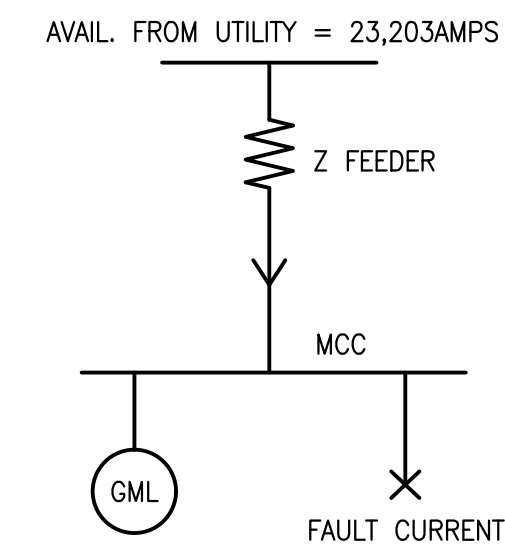
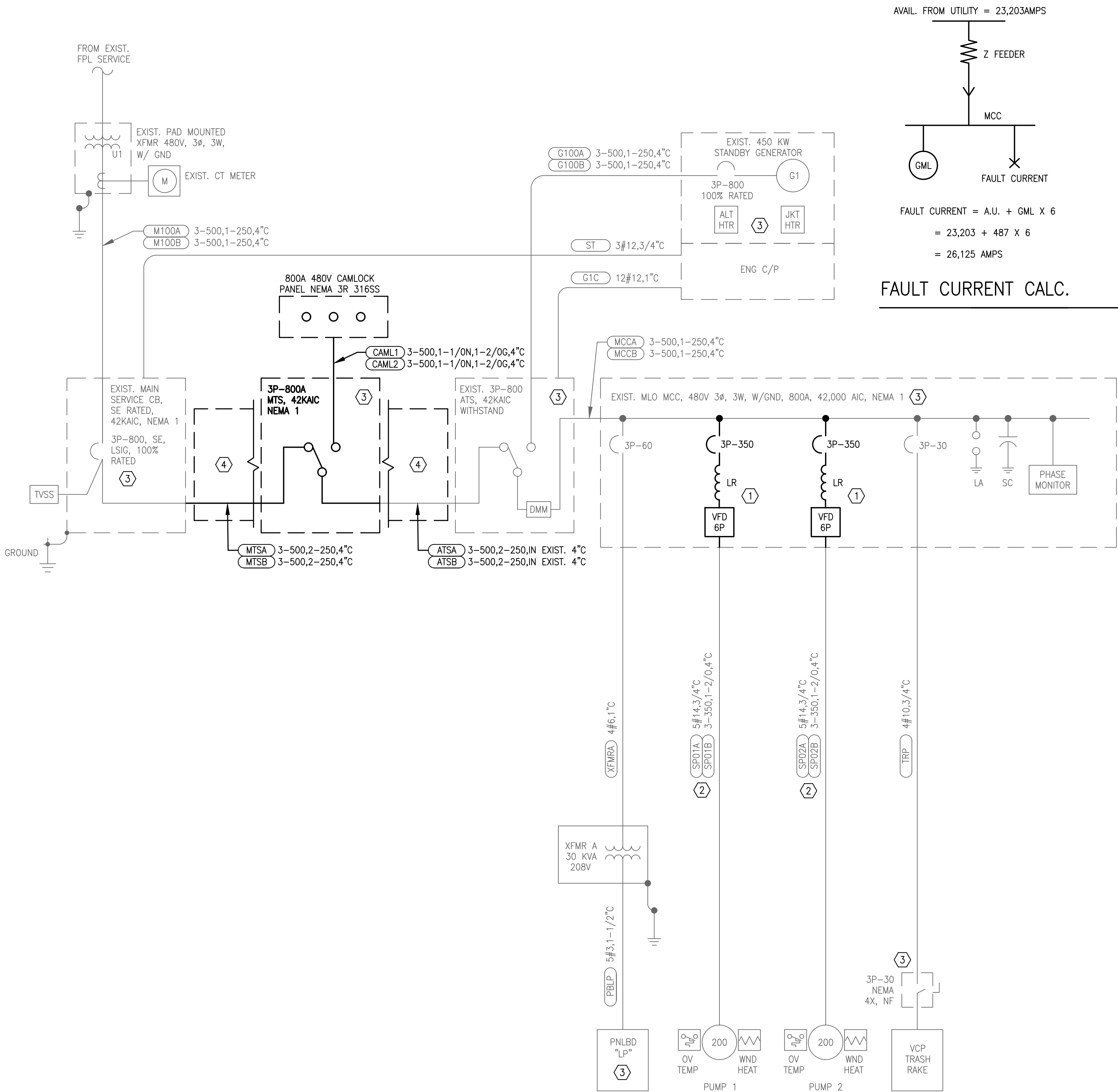
STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

PUMP STATION NO. 6
ELECTRICAL INSTALL
ONLINE

MAY 2026

P6-E4



FAULT CURRENT = A.U. + GML X 6
= 23,203 + 487 X 6
= 26,125 AMPS

FAULT CURRENT CALC.

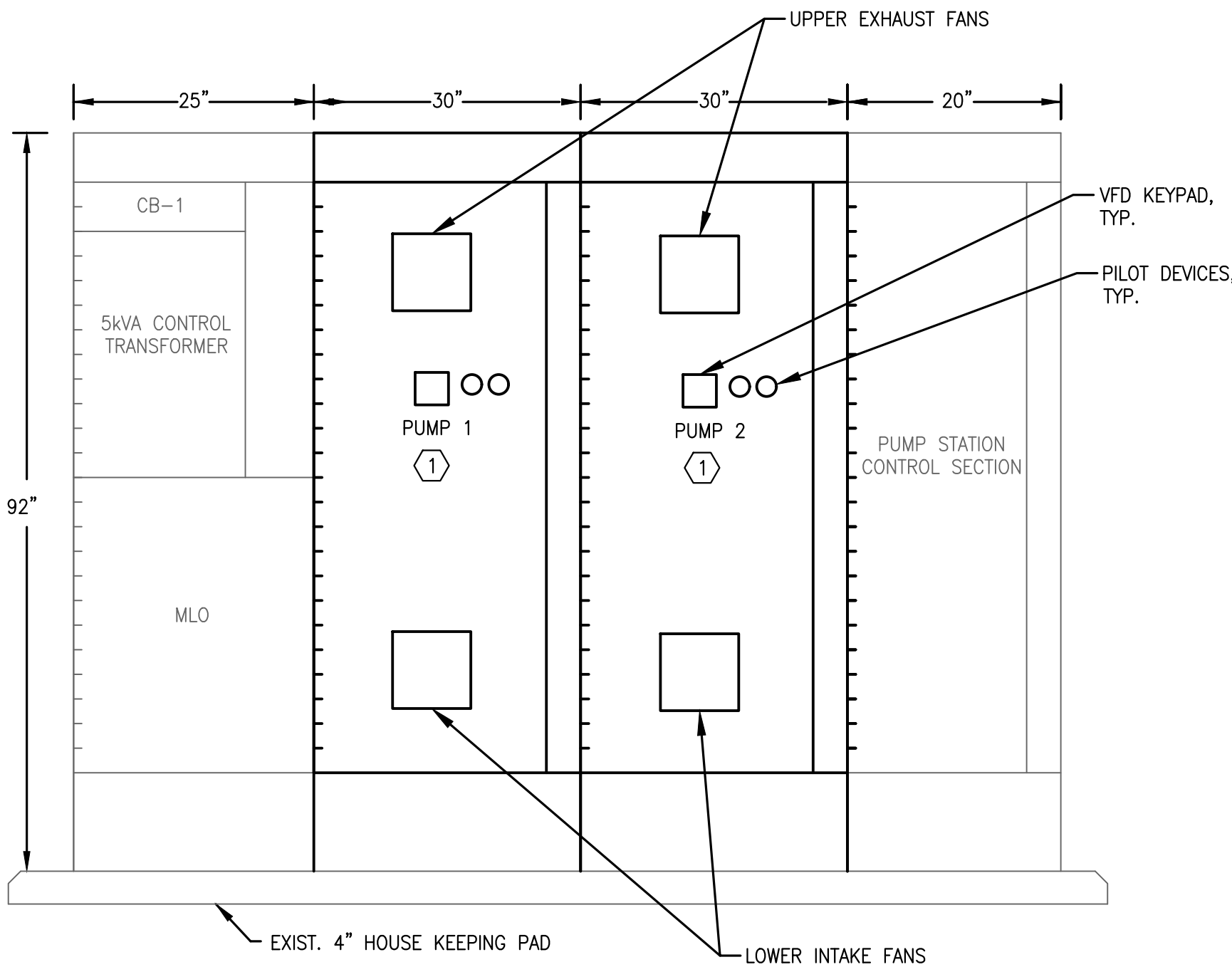
SPECIFIC NOTES

- 1 REPLACED MCC SECTIONS.
- 2 CONTRACTOR SHALL MEGGER EXISTING WIRES.
- 3 DETAILED ARC FLASH LABELS REQUIRED.
- 4 ALUMINUM J-BOX 24"x24"x30" MINIMUM, FRONT COVER (SAME J-BOX SHOWN).

LOAD CALCULATION

DESCRIPTION	AMPS
STORM WTR PUMP 1	240
STORM WTR PUMP 2	240
XFMR A	36
TRASH RAKE	7
25% OF LARGEST MOTOR	60
TOTAL	583
SERVICE PROVIDED	800 AMPS

NO NEW 480V LOADS BEING ADDED,
MISCELLANEOUS INVERTER/CHARGING LOAD LESS THAN 3AMPS.



MCC A ELEVATION

NTS

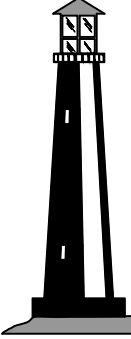
CADD File: \\10.1.10.26\caw\dropbox\JOBS\68-mock-roos\25681's Village of Wellington phase 1 pump station improvements\DRAWINGS\PE-E5 PLC MODIFICATION DETAILS PS#6.dwg
PLOT DATE: May 04, 2026 - 11:42am

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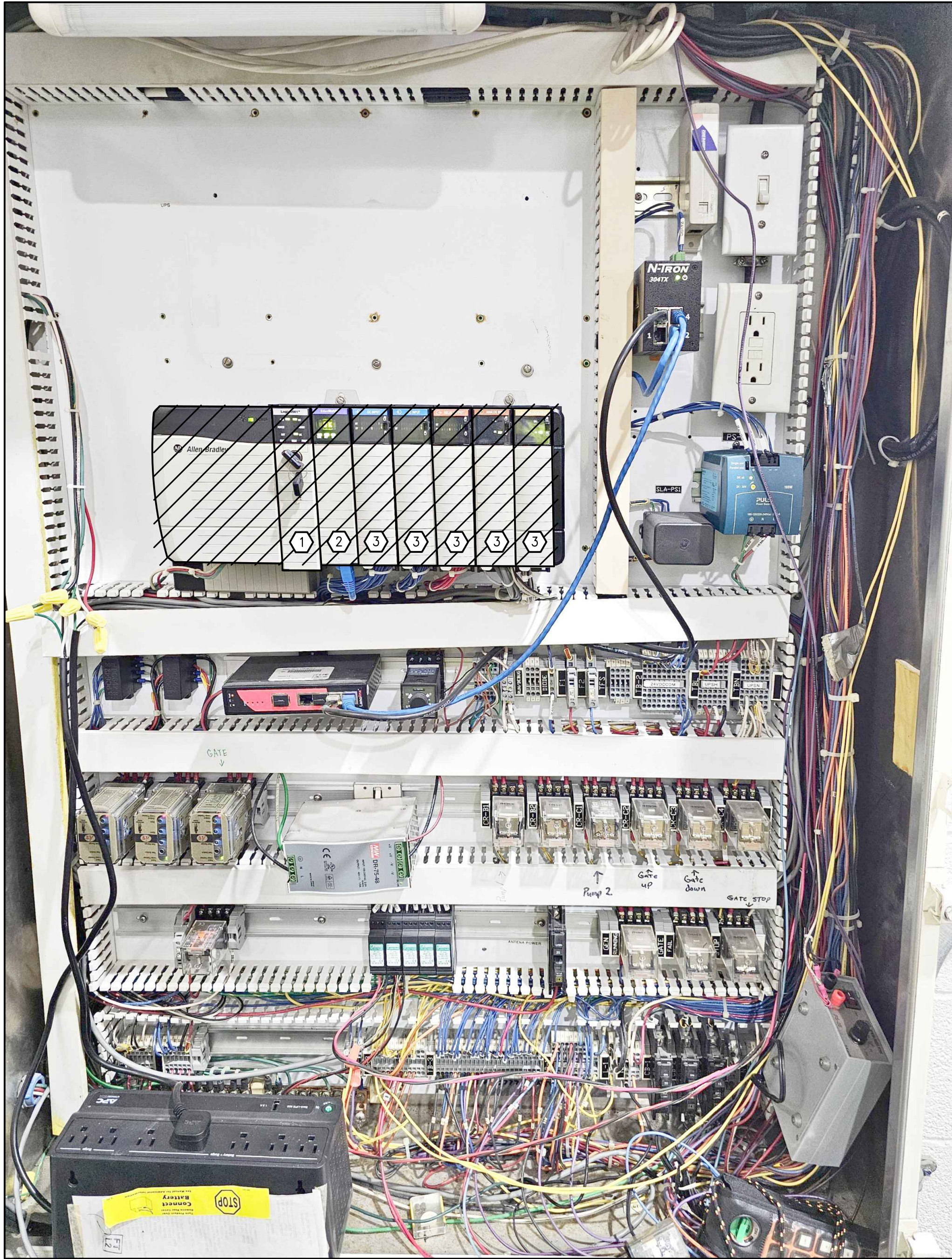
Florida L.B. No. 48

STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

PUMP STATION NO. 6
PLC MODIFICATION
DETAILS

MAY 2026
P6-E5



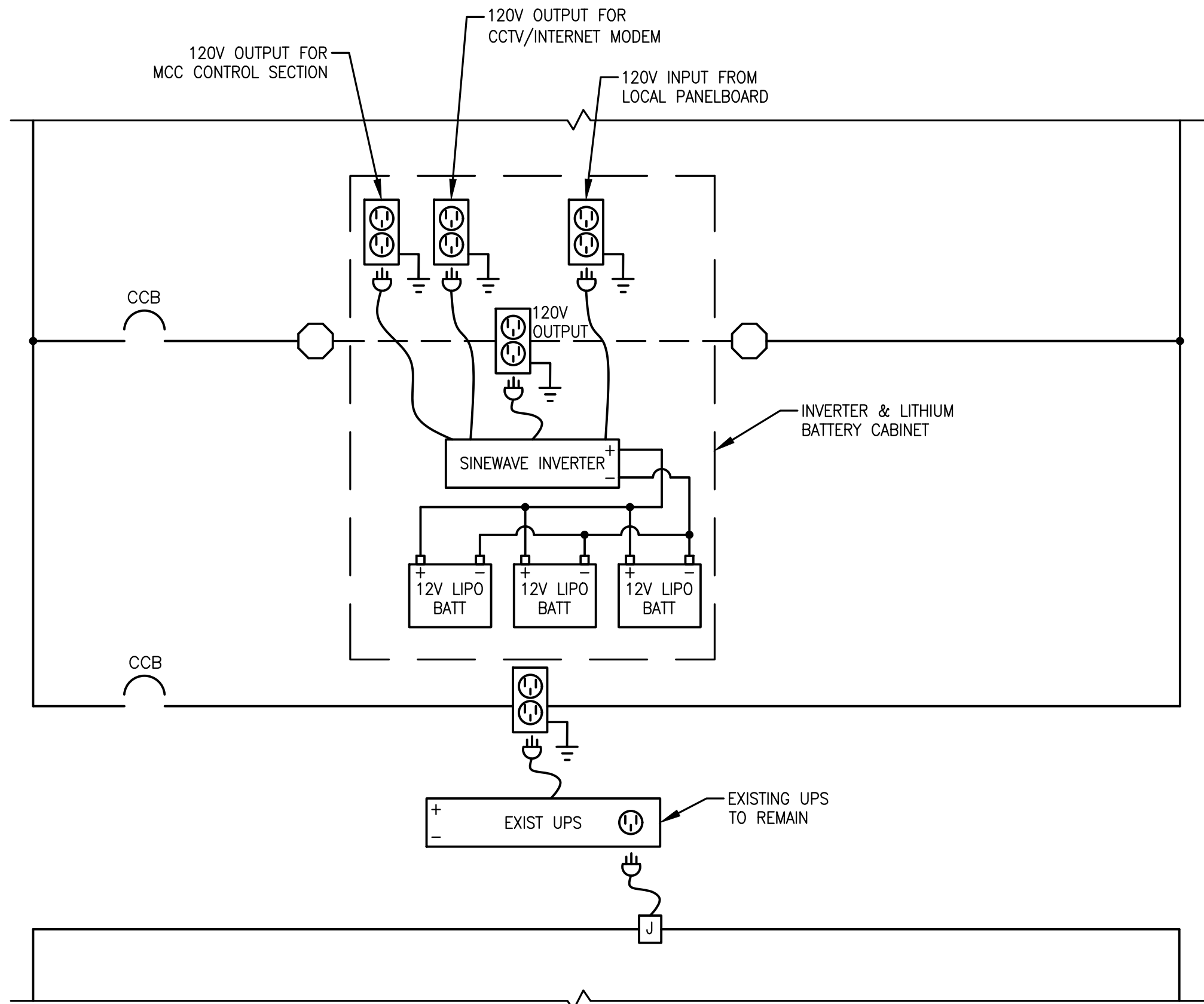
PUMP STATION NO. 6 PLC MODIFICATION DETAILS

GENERAL ELECTRICAL NOTES

- CONTRACTOR SHALL DOWNLOAD THE PLC PROGRAM FROM THE EXISTING PLC.
- CONTRACTOR SHALL COORDINATE WITH STAFF TO SHUT DOWN EXISTING PLC CONTROL PANEL POWER, AND ALLOW FOR POWER SUPPLIES TO DISCHARGE.
- AFTER NEW CARDS AND MODULES ARE INSTALLED, POWER SUPPLIES AND CONTROL PANEL SHALL BE POWERED UP AND EQUIPMENT TESTED.
- CONTRACTOR SHALL CONNECT TO CPU AND INSTALL PLC PROGRAM.
- AFTER PROGRAM IS INSTALLED, PLC SHALL BE REBOOTED AND TESTED TO ENSURE THE PLC IS WORKING PROPERLY AND SCADA IS RECEIVING STATUS OF THE I/O CONNECTED TO THE PLC.

SPECIFIC ELECTRICAL NOTES

- REPLACE EXIST. L61 CPU MODULE WITH NEW L81 CPU MODULE, INCLUDING NEW POWER MODULE.
- REPLACE EXIST. COMM MODULE WITH NEW COMM MODULE.
- REPLACE EXIST. DIGITAL AND ANALOG I/O CARDS WITH NEW DIGITAL AND ANALOG I/O CARDS. RE-LAND I/O TO SAME TERMINAL POSITIONS AS FORMER MODULES.



NOTE: ABOVE ARE PROPOSED MODIFICATIONS TO EXISTING PLC CONTROLS TO PROVIDE BACKUP POWER, OVER EXTENDED PERIODS OF NO RAIN AND NO UTILITY POWER, SEE SPECIFICATIONS.

CADD File: F:\well\p1\CAD\DWG\ISP\1CS01_M301 - OVERALL SITE.dwg
PLOT DATE: May 05, 2026 - 9:34pm

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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SEAL
GARRYTT G. GRUBER
Florida P.E. No. 60721

Date

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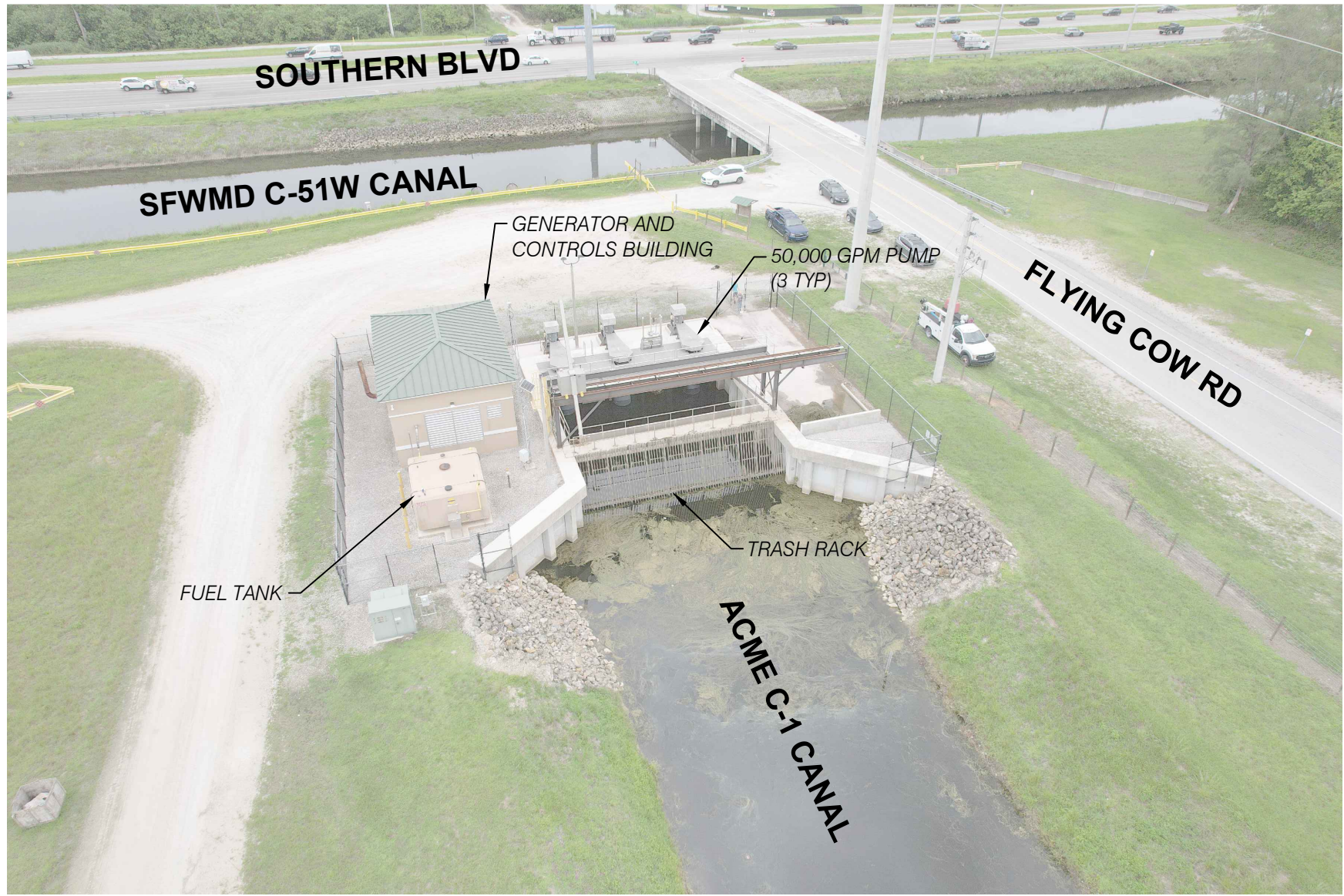
**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

**PUMP STATION NO. 7
OVERALL SITE PLAN**

MAY 2026

P7-C1



1
P7-C1 AERIAL PHOTO FACING NORTH EAST
NTS

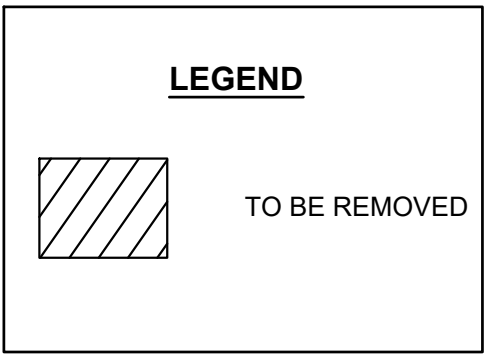
NOTES:

1. MAP LINEWORK AND CADD INFORMATION ON THIS SHEET IS SHOWN FOR GRAPHICAL PURPOSES ONLY AND NOT MEANT TO ACCURATELY REFLECT SITE CONDITIONS OR REPRESENT SURVEY INFORMATION.

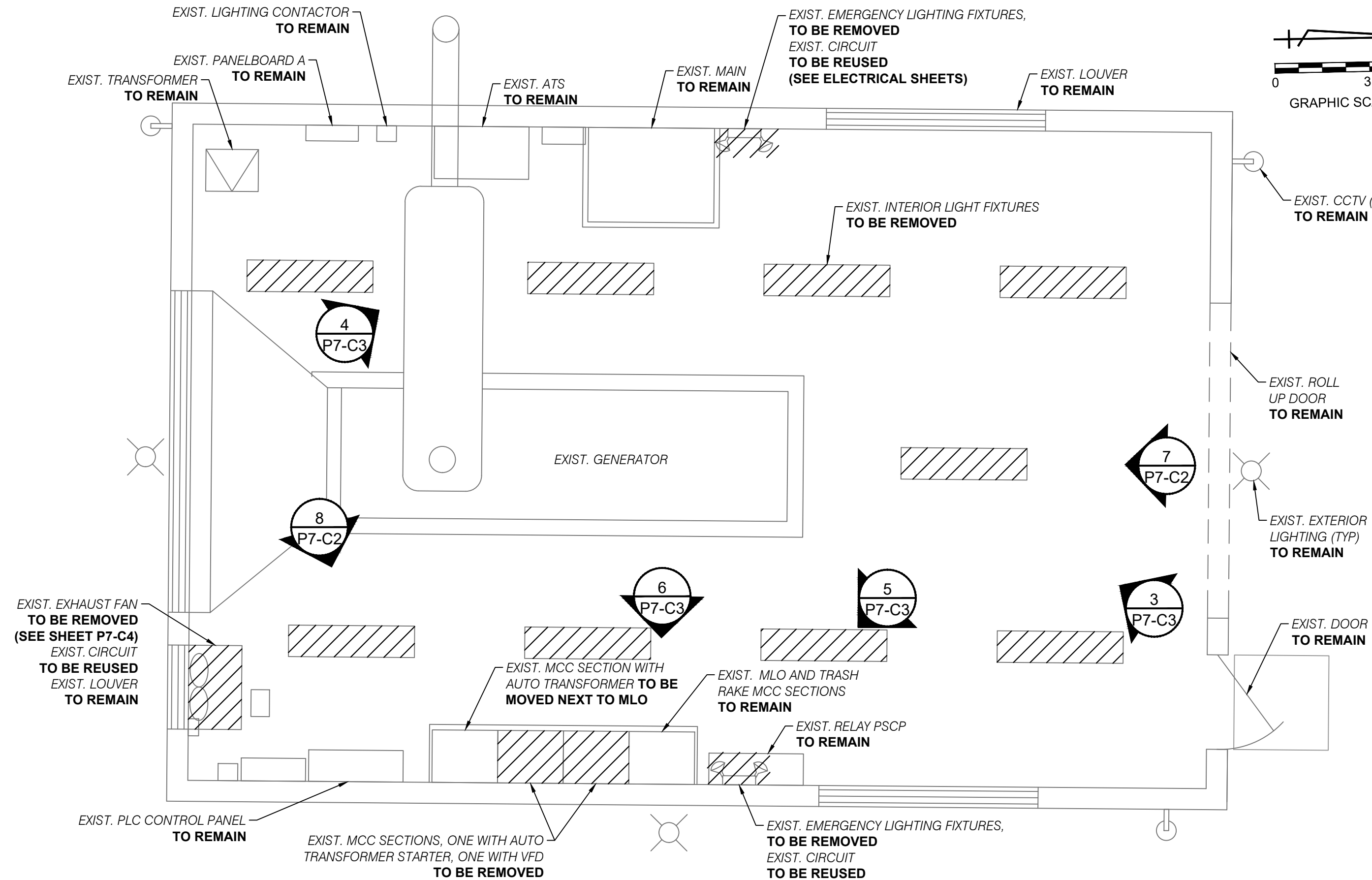
WELLINGTON STORMWATER PUMP STATION NO. 7 INFORMATION					
CONTROL STRUCTURE FEATURE	INTAKE WATER	RECEIVING WATER	PUMP CAPACITY (GPM)	VFD	PUMP OPERATION (NGVD)
PUMP 1	C-1	C-51W	50,000	Y	ON @ 12.2' OFF @ 12.0'
PUMP 2	C-1	C-51W	50,000	N	
PUMP 3	C-1	C-51W	50,000	N	
GRAVITY DISCHARGE GATE					

NOTES:

1. WHEN DEMOLISHING LIGHTING FIXTURES EXISTING LIGHTING CIRCUITS TO REMAIN AND TO BE REUSED WITH NEW FIXTURES.
2. EXISTING EQUIPMENT NOT BEING DEMOLISHED IS TO REMAIN AND BE PROTECTED.
3. MAJOR COMPONENTS ARE SHOWN WITH A DEMOLITION HATCH. MISCELLANEOUS CONDUIT, WIRE, CONCRETE, ETC. ARE TO BE REMOVED AS NEEDED TO COMPLETE THE WORK.



2
P7-C3



1
P7-C2

PUMP STATION NO. 7 DEMOLITION PLAN
NTS



7
P7-C2

SITE PHOTO FACING SOUTH
NTS



8
P7-C2

SITE PHOTO FACING EAST
NTS

CADD File: F:\well\p1\CADD\DWG\ISP1\CS01_M303 - MECHANICAL DEMO PLAN.dwg
PLOT DATE: May 05, 2026 - 9:34pm

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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SEAL

GARRYTT G. GRUBER
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STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

PUMP STATION NO. 7
DEMOLITION PLAN

MAY 2026

P7-C2



1 SITE PHOTO
P7-C3 NTS



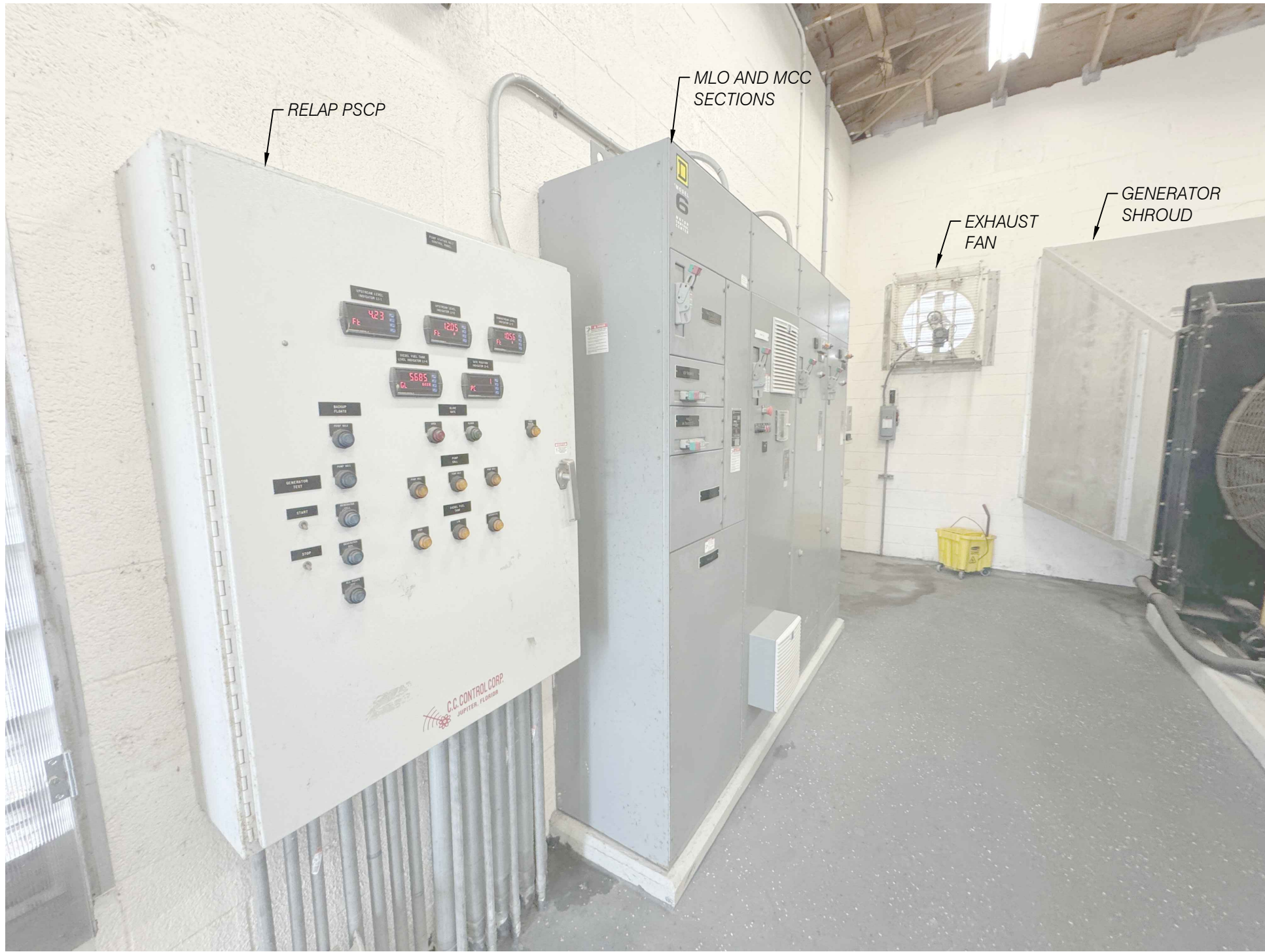
2 SITE PHOTO
P7-C3 NTS



3 SITE PHOTO
P7-C3 NTS



4 SITE PHOTO
P7-C3 NTS



5 SITE PHOTO
P7-C3 NTS



6 SITE PHOTO
P7-C3 NTS

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PLOT DATE: May 05, 2026 - 9:34pm

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

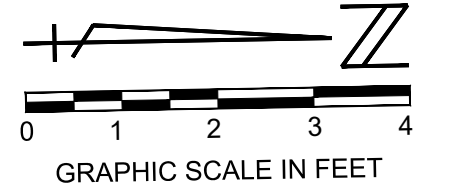
VILLAGE OF WELLINGTON

**PUMP STATION NO. 7
EXISTING SITE
PHOTOS**

MAY 2026

P7-C3

1. EXHAUST FANS TO INCLUDE INTEGRAL DISCONNECT SWITCH (1 REQUIRED)
(SUBMIT SHOP DRAWINGS)
2. INSTALL EXHAUST FAN PER MANUFACTURER'S RECOMMENDATIONS.



REMARKS	DATE WHEN	DATE WHEN
1. FAN INSTALLED PER MIAMI DADE NOA 12-0120.13		
2. CONTRACTOR TO UTILIZE EXISTING LOUVER		
3. BIRD SCREEN		
4. BUG SCREEN		

CADD File: F:\well\wellpsp1\CADD
PLOT DATE: May 05 2026 - 9:00

Dwg. No.
43-41-33-07

No.	Date	By	Revision
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IMPROVEMENTS

VILLAGE OF WELLINGTON

MECHANICAL & CIVIL IMPROVEMENTS

P7-C4

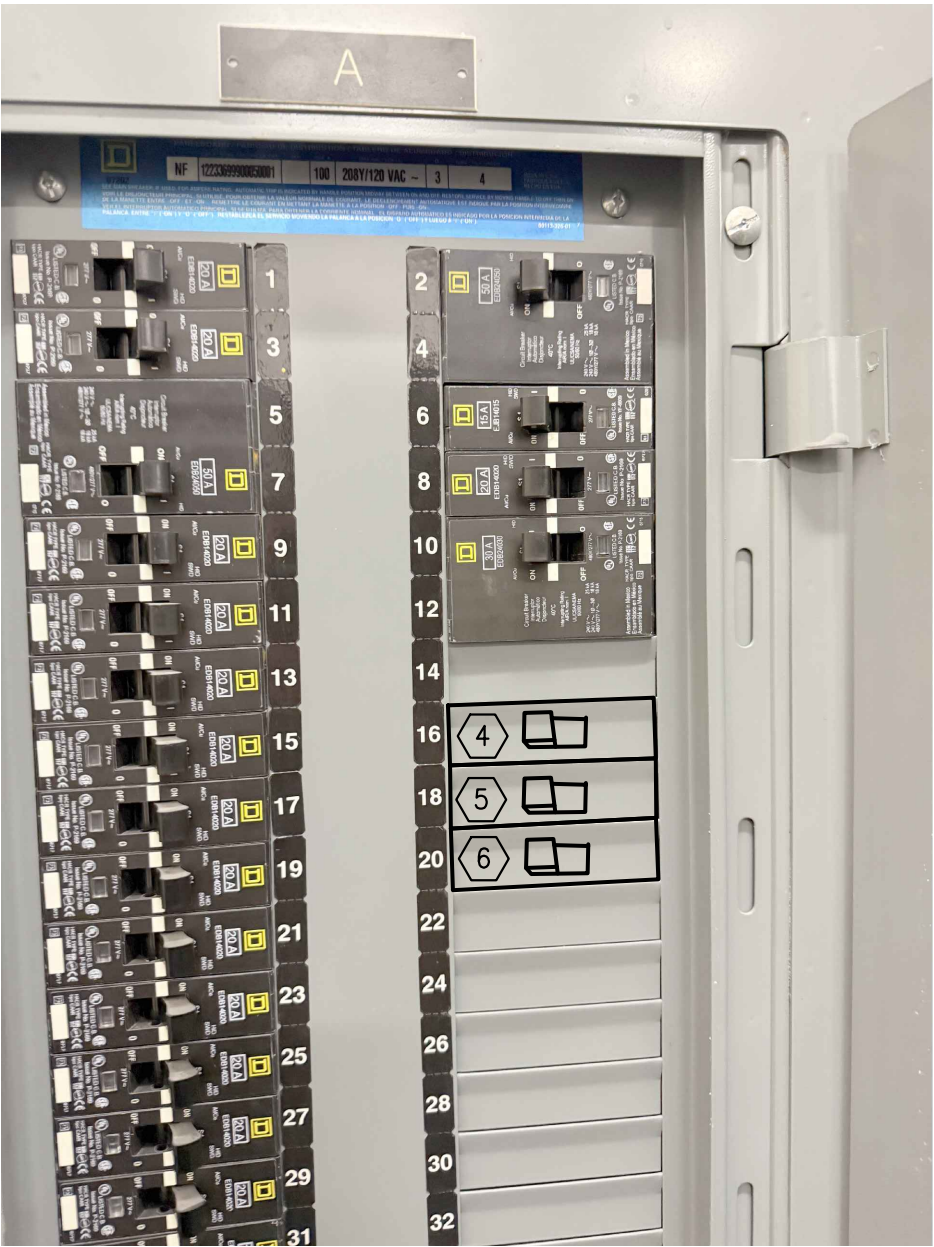
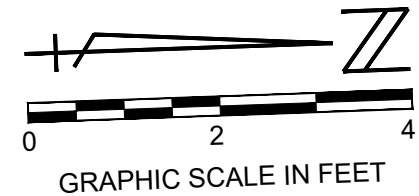
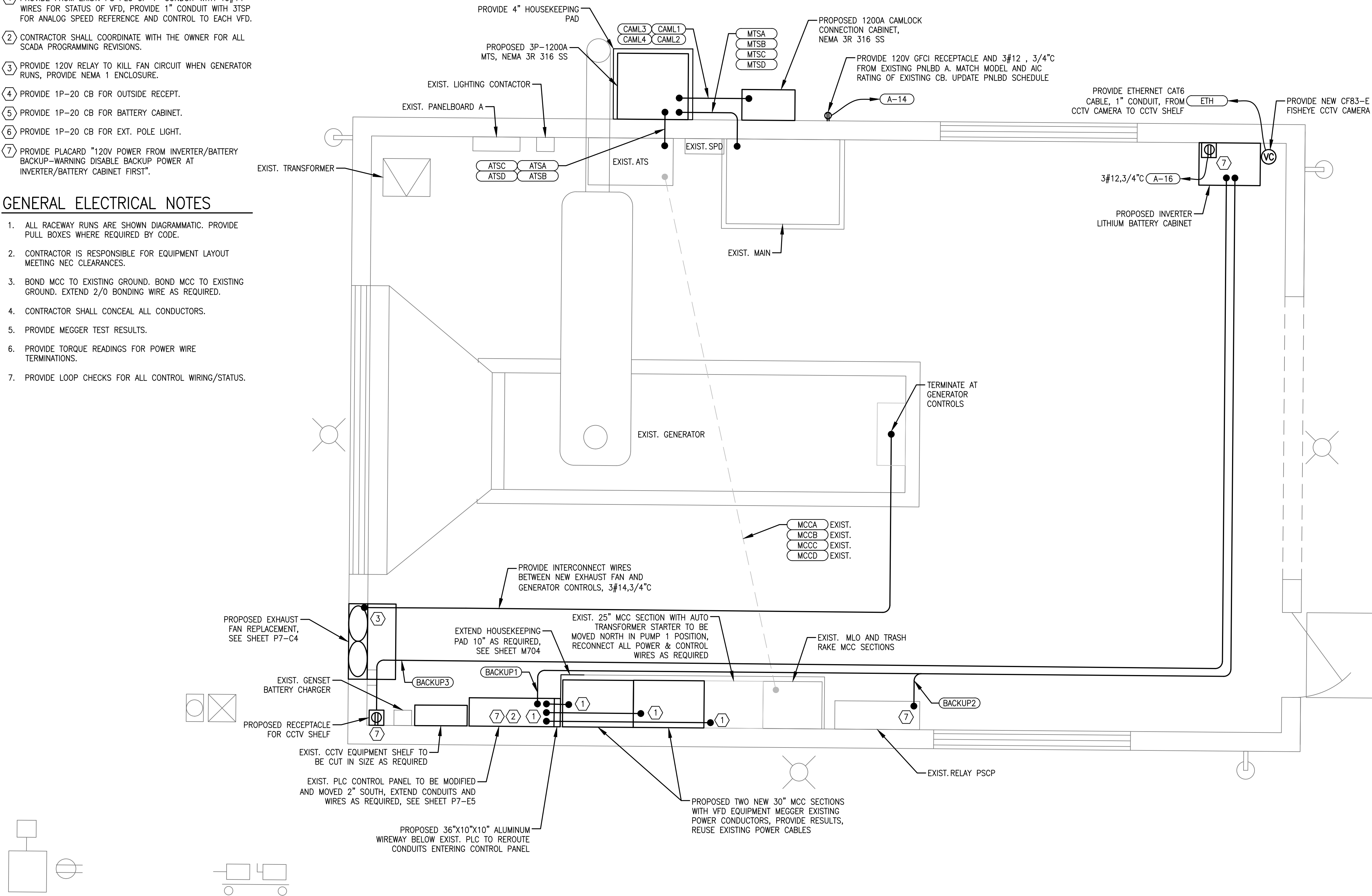
CADD File: \\10.1.10.26\c\w\dropbox\JOBS\08-mock-roos\25681's village of wellington phase 1 pump station improvements\DRAWINGS\P7-E1 ELECTRICAL INSTALL PLAN PS-7.dwg
PLOT DATE: May 04, 2026 - 11:42am

SPECIFIC ELECTRICAL NOTES

1. PROVIDE FROM EXIST. PS PLC CP 1" CONDUIT WITH 19#14 WIRES FOR STATUS OF VFD, PROVIDE 1" CONDUIT WITH 3TSP FOR ANALOG SPEED REFERENCE AND CONTROL TO EACH VFD.
2. CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL SCADA PROGRAMMING REVISIONS.
3. PROVIDE 120V RELAY TO KILL FAN CIRCUIT WHEN GENERATOR RUNS, PROVIDE NEMA 1 ENCLOSURE.
4. PROVIDE 1P-20 CB FOR OUTSIDE RECEPT.
5. PROVIDE 1P-20 CB FOR BATTERY CABINET.
6. PROVIDE 1P-20 CB FOR EXT. POLE LIGHT.
7. PROVIDE PLACARD "120V POWER FROM INVERTER/BATTERY BACKUP-WARNING DISABLE BACKUP POWER AT INVERTER/BATTERY CABINET FIRST".

GENERAL ELECTRICAL NOTES

1. ALL RACEWAY RUNS ARE SHOWN DIAGRAMMATIC. PROVIDE PULL BOXES WHERE REQUIRED BY CODE.
2. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT LAYOUT MEETING NEC CLEARANCES.
3. BOND MCC TO EXISTING GROUND. BOND MCC TO EXISTING GROUND. EXTEND 2/0 BONDING WIRE AS REQUIRED.
4. CONTRACTOR SHALL CONCEAL ALL CONDUCTORS.
5. PROVIDE MEGGER TEST RESULTS.
6. PROVIDE TORQUE READINGS FOR POWER WIRE TERMINATIONS.
7. PROVIDE LOOP CHECKS FOR ALL CONTROL WIRING/STATUS.



EXIST. PANELBOARD A

NTS.

PANEL BOARD / PANNEAU / TABLERO			
Wellington 7			
Voltage		Phase	
1	Battery Charger	2	Jacket Heat 1
3	Alternator Heat	4	Jacket 1
5	Spare	6	Spare RAKE CONTROL
7	Receptacles	8	Trash Rake cp
9	Receptacles	10	Gate Operator
11	Interior Lighting	12	
13	Exterior Lighting	14	OUTSIDE RECEPT.
15	Spare	16	BATTERY CABINET
17	Exhaust Fan	18	EXT. POLE LIGHT
19	DFS RTU	20	
21	P2	22	
23	P2 Receptacle	24	
25	P1	26	
27	P1 Receptacle	28	
29	PSCP	30	
31		32	
33		34	
34		35	Spare Ph Cell
36		37	Spare
38		39	Spare
40		41	
42		43	

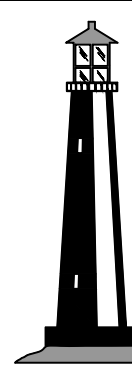
EXIST. PANELBOARD SCHEDULE

NTS.

Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

256815



C&W engineering
ELECTRICAL CONSULTANTS
6903 VISTA PARKWAY NORTH, SUITE 10
WEST PALM BEACH, FL. 33411
(561) 642-5333
REGISTRATION NUMBERS
C & W ENGINEERING INC. CA# 33315
MICHAEL A. GUIDA, P.E. 60755

SEAL

MICHAEL A. GUIDA
Florida P.E. No. 60755

Date

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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

**PUMP STATION NO. 7
ELECTRICAL
INSTALLATION PLAN**

MAY 2026

P7-E1

CADD File: \\10.1.10.26\c\w\dropbox\UOB\8-mock-roos\256815 village of wellington phase 1 pump station improvements\DRAWINGS\P7-E2 OVERALL LIGHTING PLAN PS-7.dwg
PLOT DATE: May 04, 2026 - 11:42am

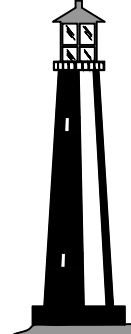
Bar is equal to one inch on original drawing

Agree all scaled dimensions accordingly

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision

256815

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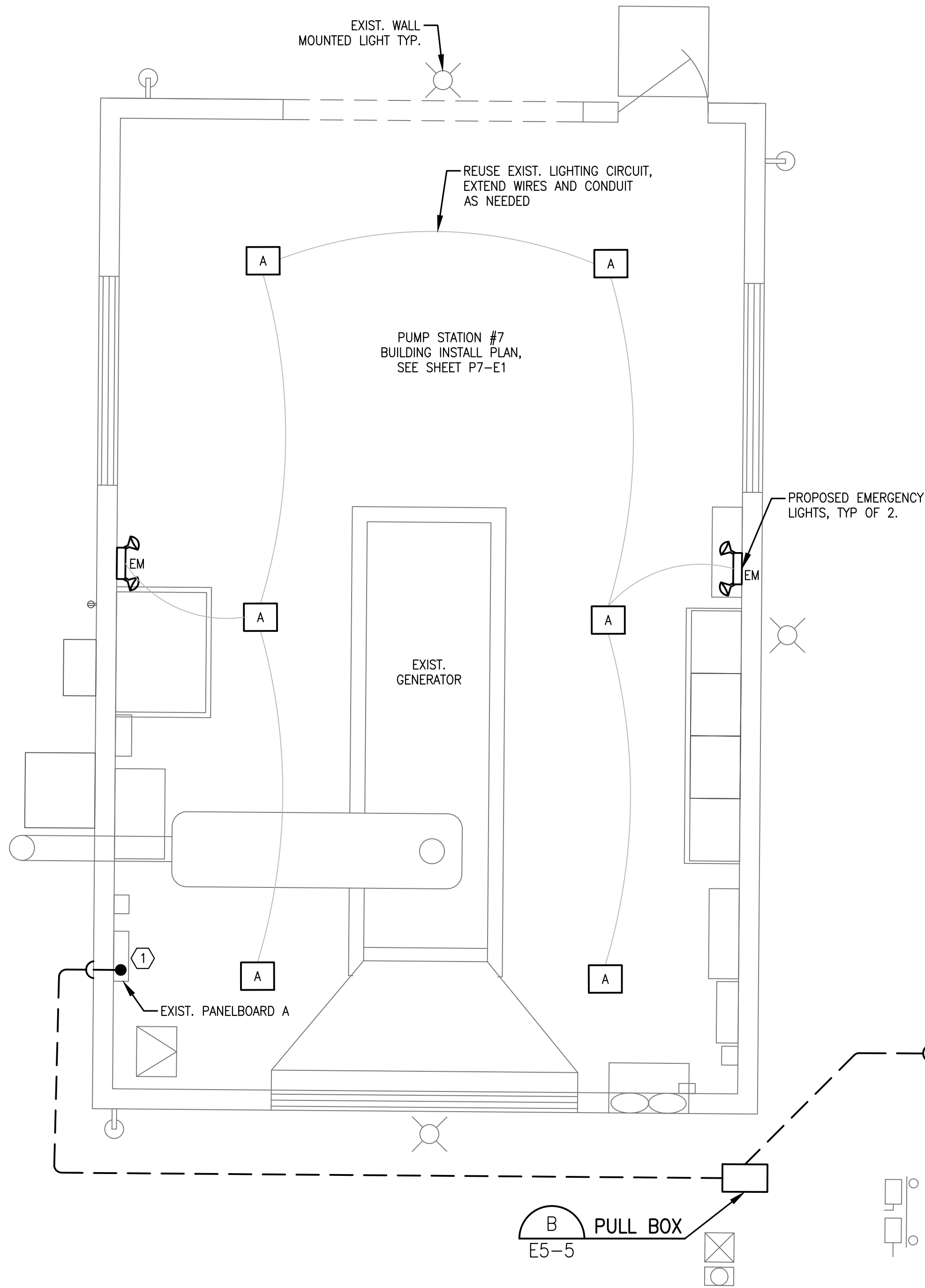
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Florida P.E. No. 60755
Date

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STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS
VILLAGE OF WELLINGTON

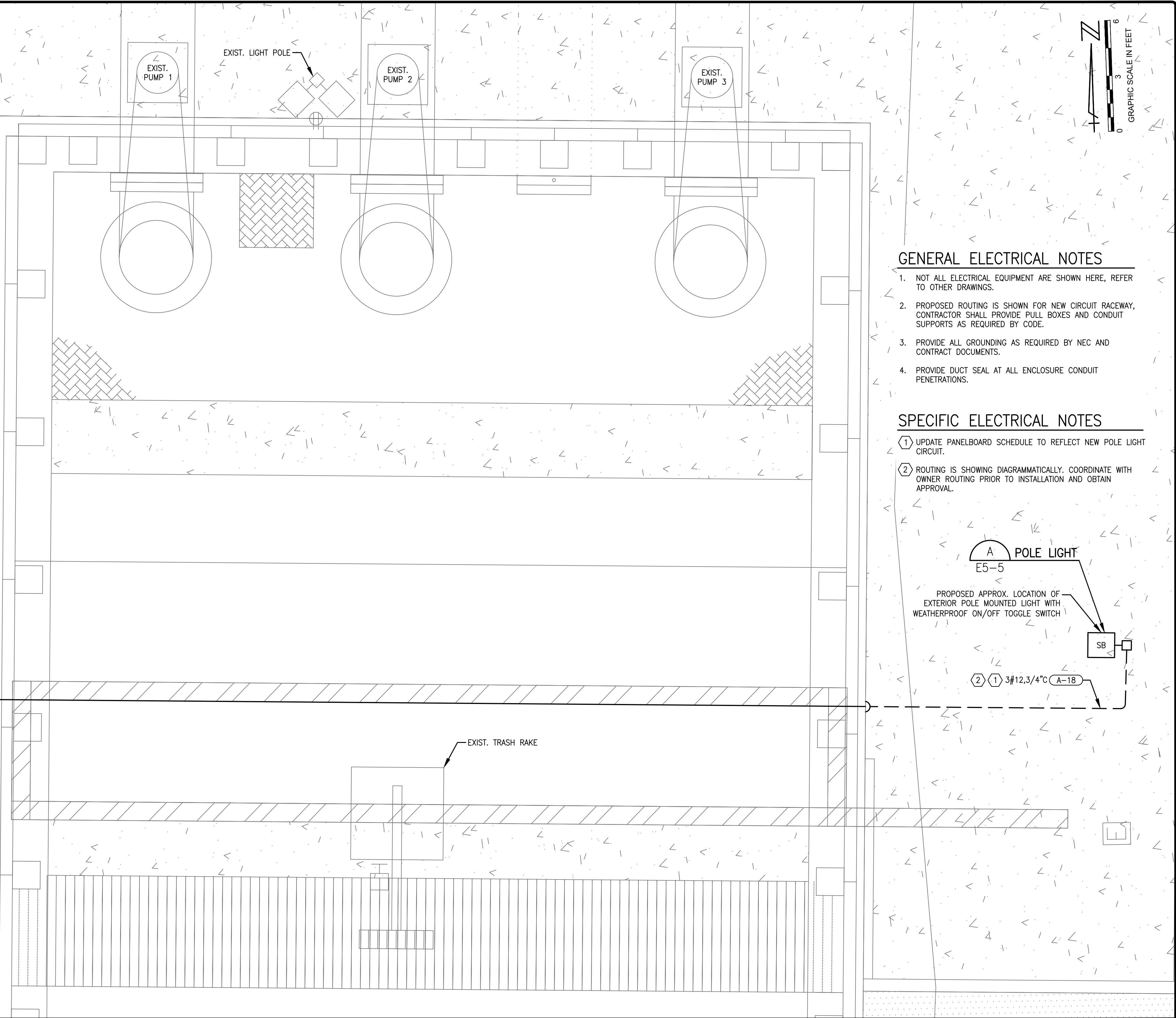
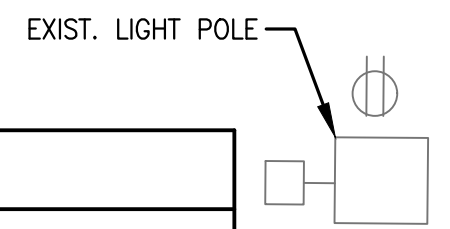
PUMP STATION NO. 7
OVERALL LIGHTING
PLAN

MAY 2026
P7-E2



FIXTURE SCHEDULE

TYPE	MANUFACTURER	SERIES	SOURCE	INPUT WATTS	REMARKS
A	C-LITE	C-CP-C-SQ-7L	LED	53W	SQUARE LED CANOPY LIGHT
SB	LITHONIA	RSX2 LED	LED	147W	RSX2 LED P3 40K R3 MVOLT SPA PER7 DDBXD
EM	LITHONIA	ELM2	LED	2.88W	MULTI-VOLT, STAINLESS FASTENERS, DAMP, BATTERY BACKED

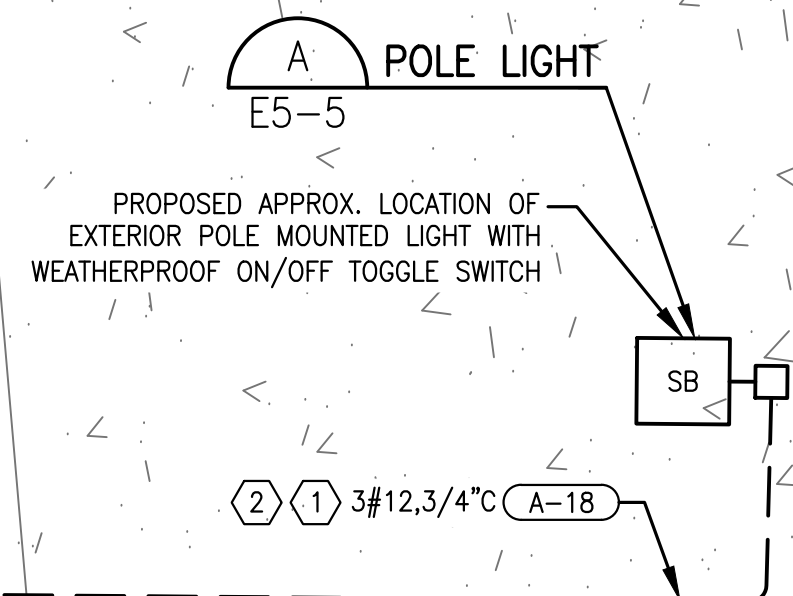


GENERAL ELECTRICAL NOTES

- NOT ALL ELECTRICAL EQUIPMENT ARE SHOWN HERE, REFER TO OTHER DRAWINGS.
- PROPOSED ROUTING IS SHOWN FOR NEW CIRCUIT RACEWAY, CONTRACTOR SHALL PROVIDE PULL BOXES AND CONDUIT SUPPORTS AS REQUIRED BY CODE.
- PROVIDE ALL GROUNDING AS REQUIRED BY NEC AND CONTRACT DOCUMENTS.
- PROVIDE DUCT SEAL AT ALL ENCLOSURE CONDUIT PENETRATIONS.

SPECIFIC ELECTRICAL NOTES

- UPDATE PANELBOARD SCHEDULE TO REFLECT NEW POLE LIGHT CIRCUIT.
- ROUTING IS SHOWING DIAGRAMMATICALLY. COORDINATE WITH OWNER ROUTING PRIOR TO INSTALLATION AND OBTAIN APPROVAL.



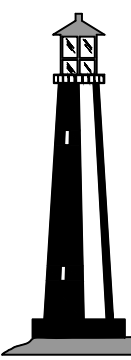
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PLOT DATE: May 04, 2026 - 11:43am

Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
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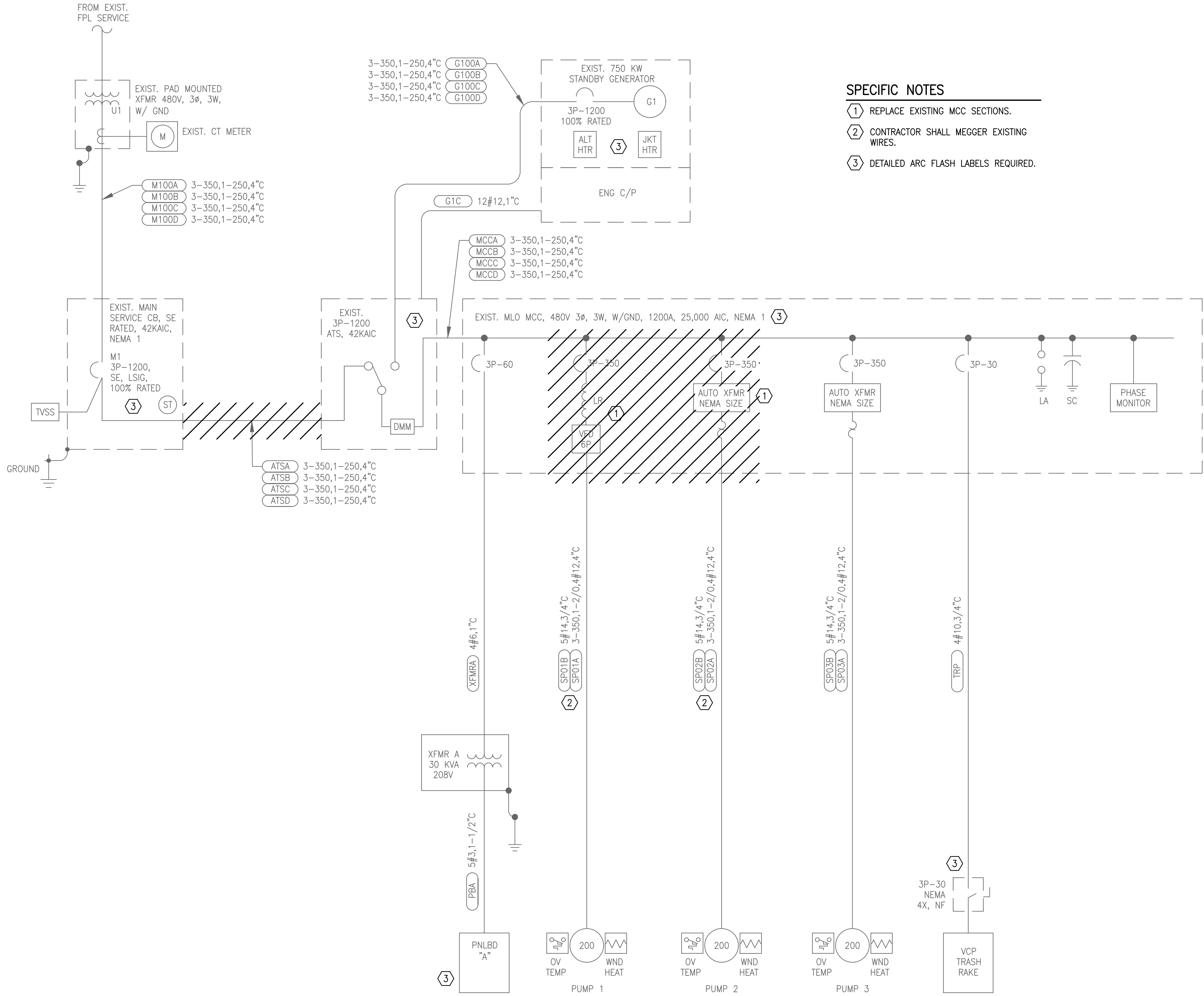
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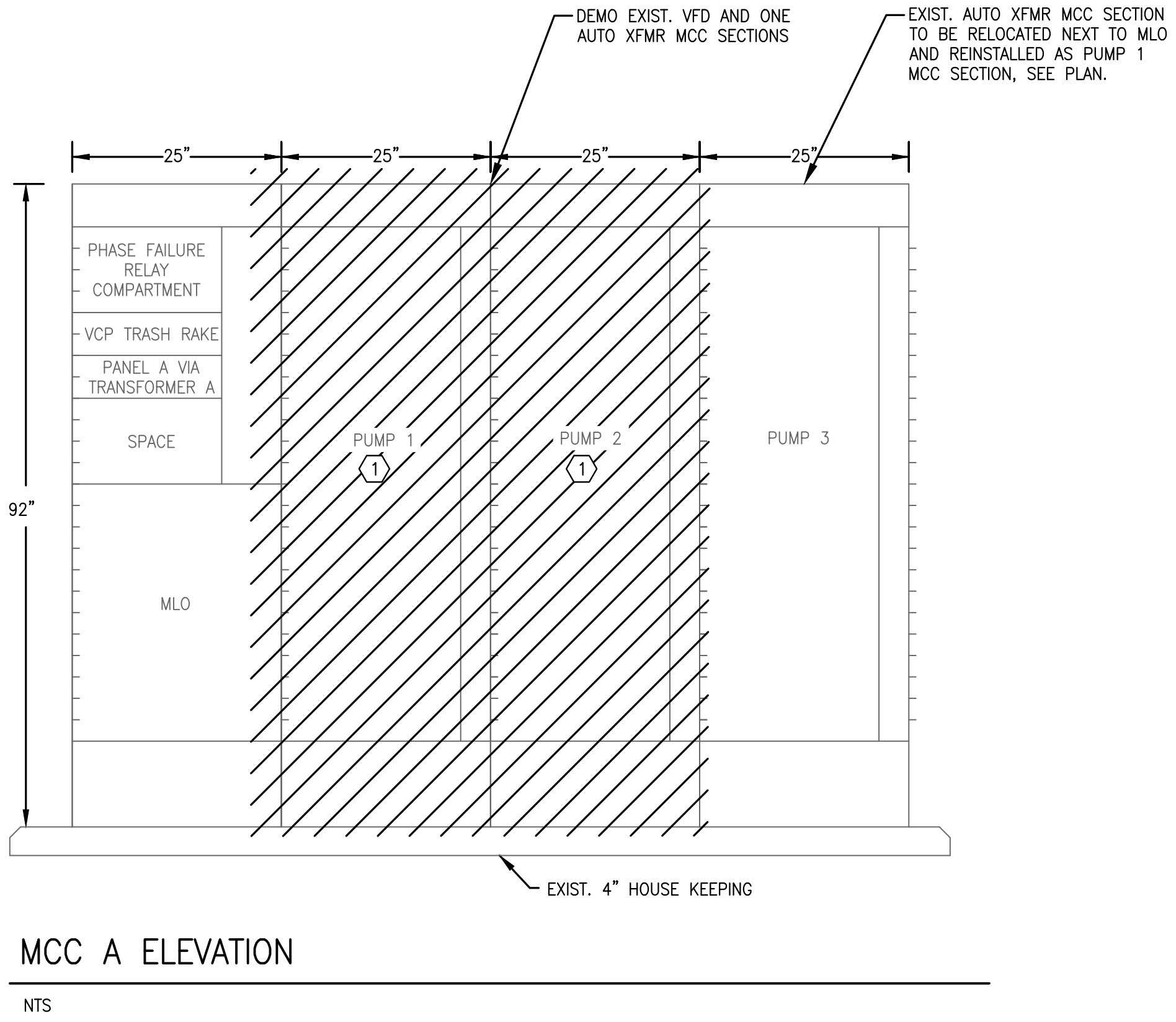
STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS
VILLAGE OF WELLINGTON

PUMP STATION NO. 7
ELECTRICAL DEMO
ONELINE

MAY 2026
P7-E3



- SPECIFIC NOTES**
- 1 REPLACE EXISTING MCC SECTIONS.
 - 2 CONTRACTOR SHALL MEGGER EXISTING WIRES.
 - 3 DETAILED ARC FLASH LABELS REQUIRED.



CADD File: \\10.1.10.26\c\w\dropbox\JOBS\68-mock-roos\25681's village of wellington phase 1 pump station improvements\DRAWINGS\P7-E5 PLC MODIFICATION DETAILS PS#7.dwg
PLOT DATE: May 04, 2026 - 11:43am

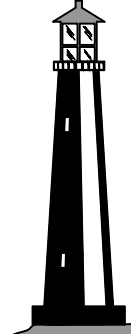
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Adjust all scaled dimensions accordingly

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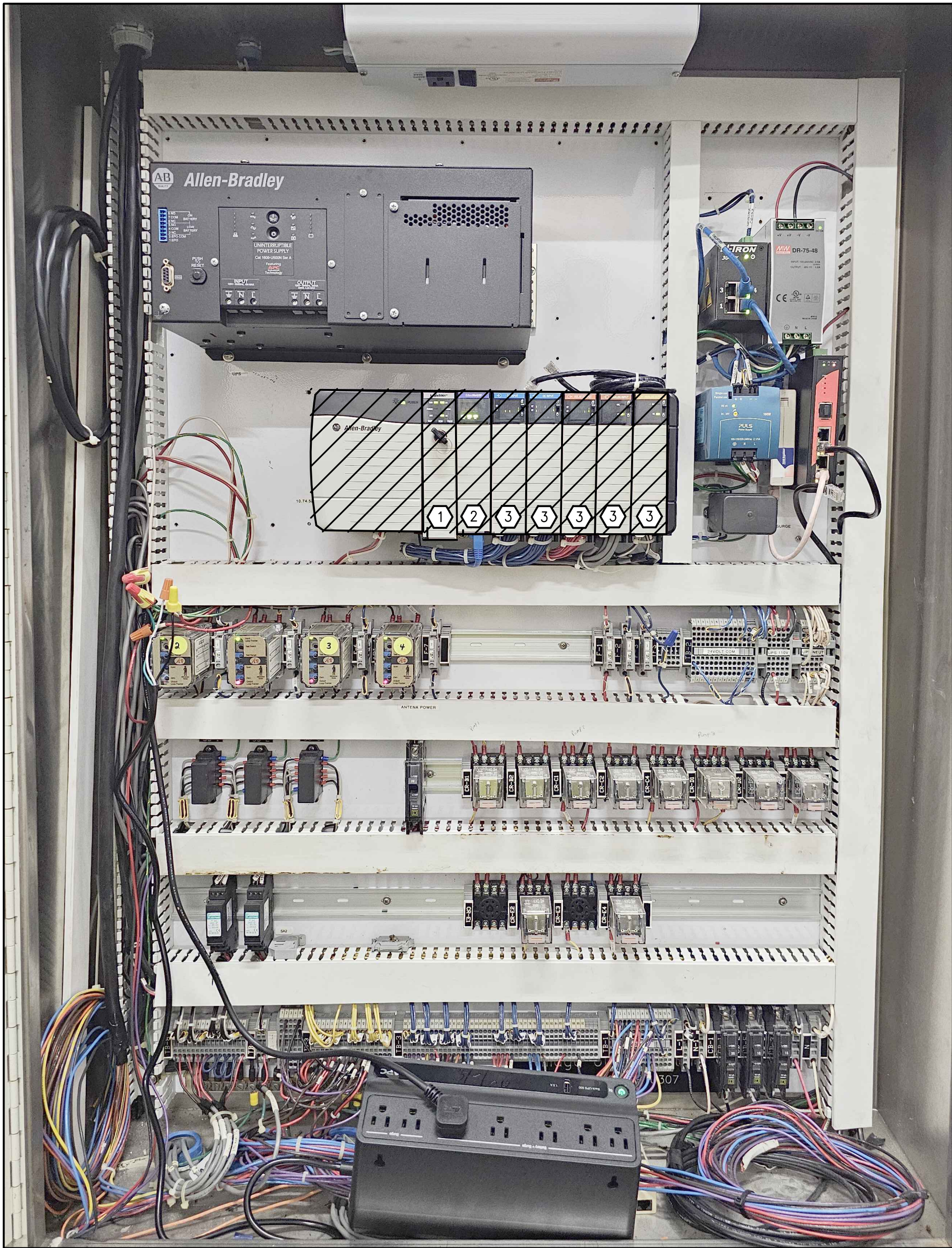
Florida L.B. No. 48

STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

PUMP STATION NO. 7
PLC MODIFICATION
DETAILS

MAY 2026
P7-E5



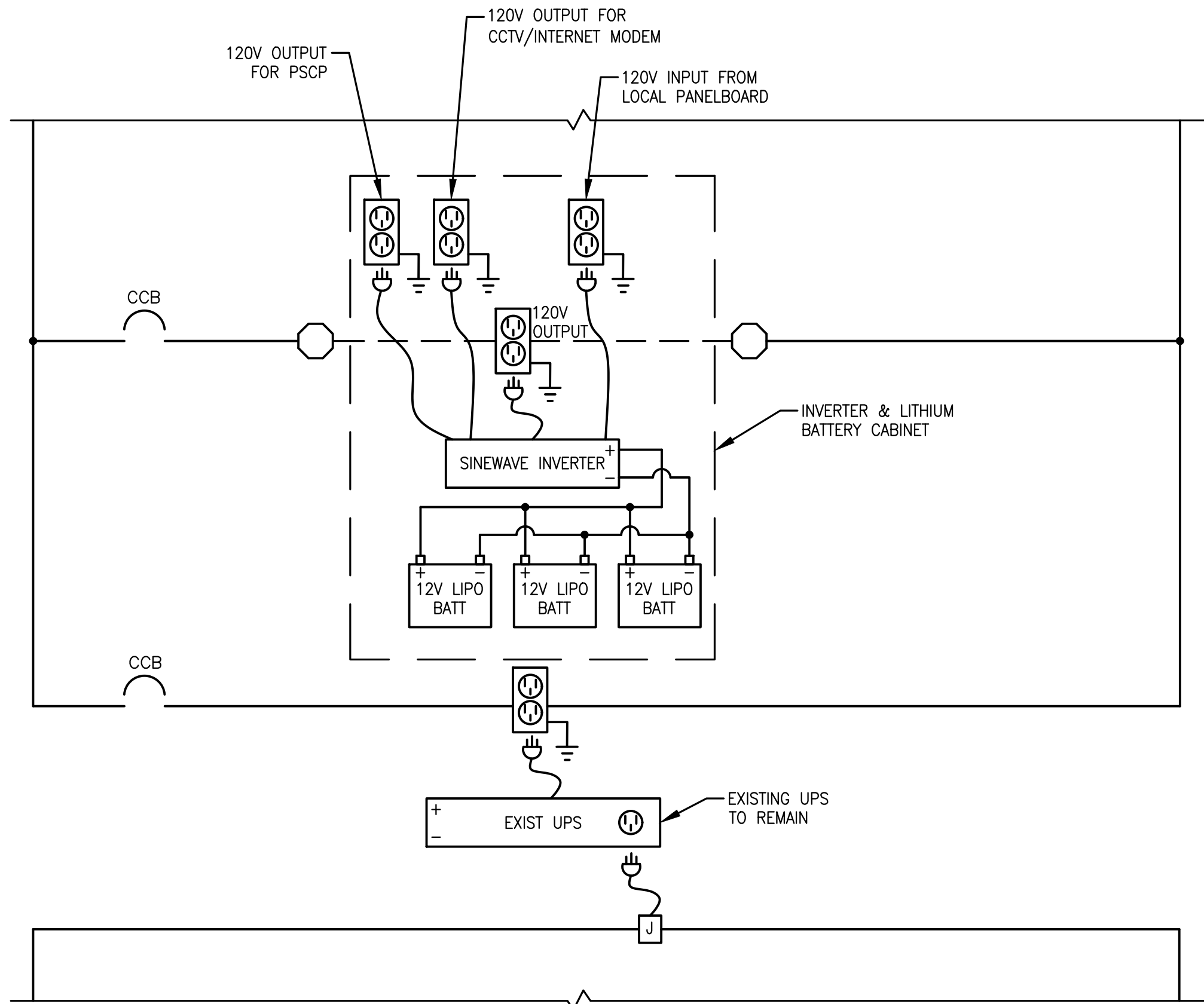
PUMP STATION NO. 7 PLC MODIFICATION DETAILS

GENERAL ELECTRICAL NOTES

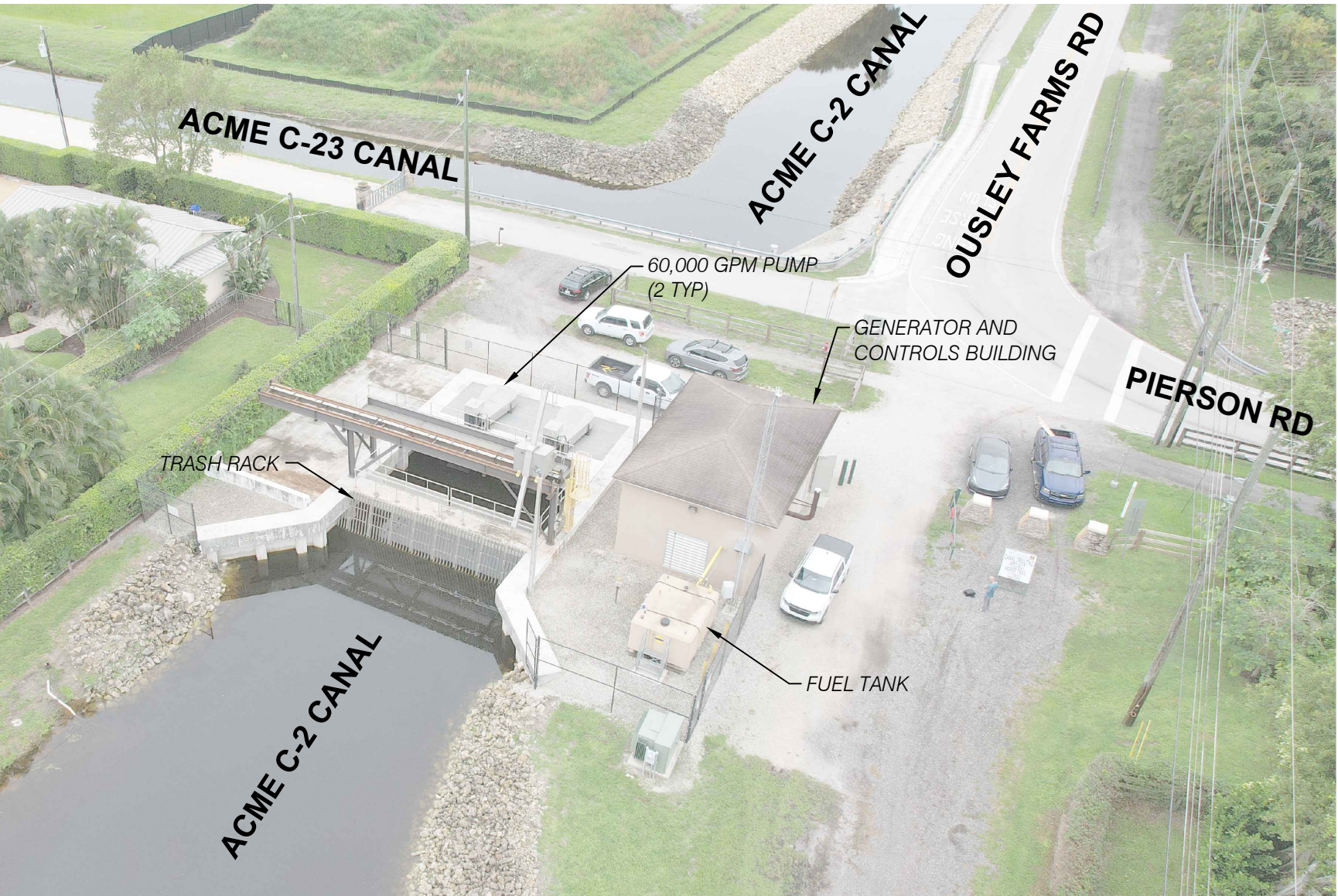
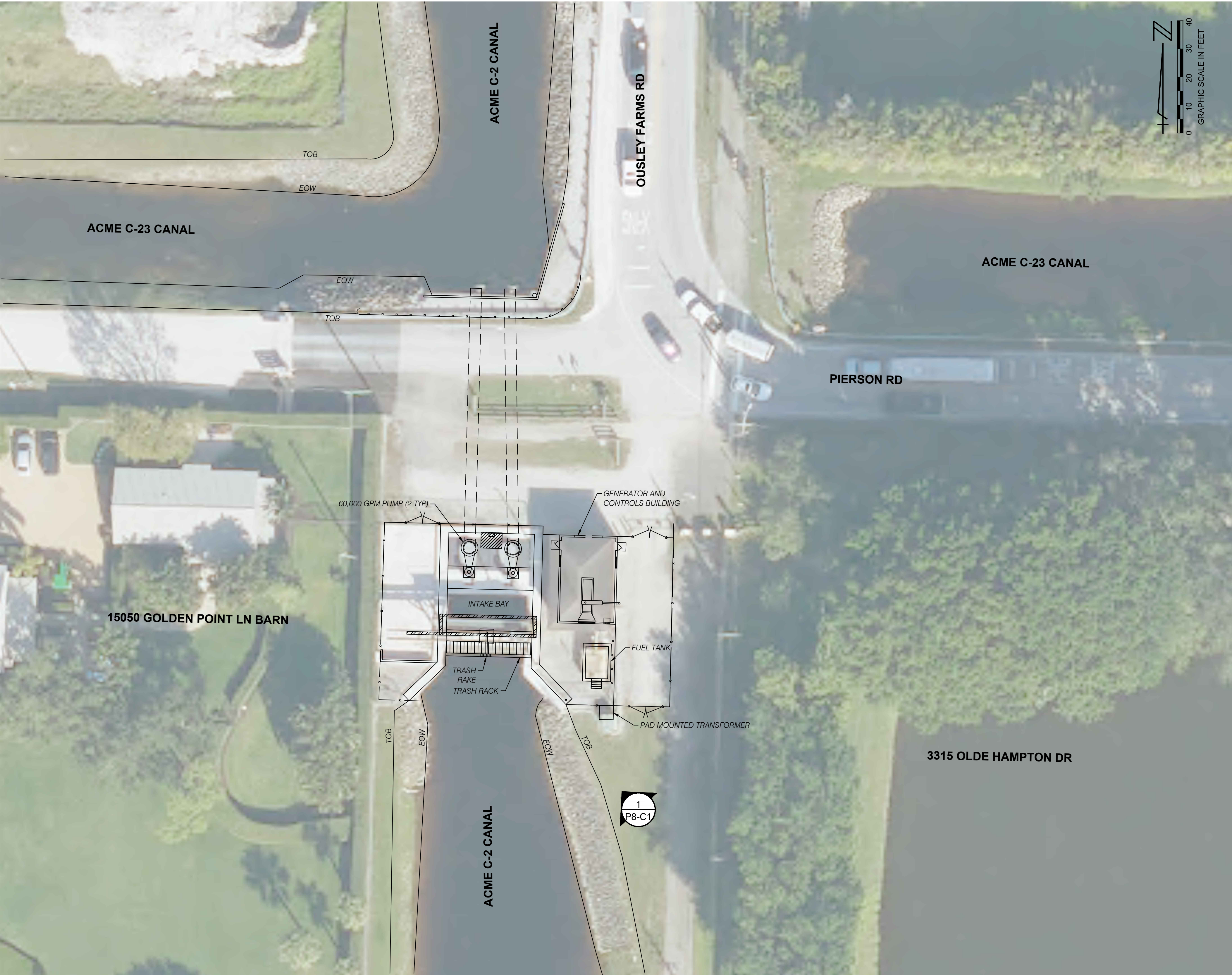
- CONTRACTOR SHALL DOWNLOAD THE PLC PROGRAM FROM THE EXISTING PLC.
- CONTRACTOR SHALL COORDINATE WITH STAFF TO SHUT DOWN EXISTING PLC CONTROL PANEL POWER, AND ALLOW FOR POWER SUPPLIES TO DISCHARGE.
- AFTER NEW CARDS AND MODULES ARE INSTALLED, POWER SUPPLIES AND CONTROL PANEL SHALL BE POWERED UP AND EQUIPMENT TESTED.
- CONTRACTOR SHALL CONNECT TO CPU AND INSTALL PLC PROGRAM.
- AFTER PROGRAM IS INSTALLED, PLC SHALL BE REBOOTED AND TESTED TO ENSURE THE PLC IS WORKING PROPERLY AND SCADA IS RECEIVING STATUS OF THE I/O CONNECTED TO THE PLC.

SPECIFIC ELECTRICAL NOTES

- REPLACE EXIST. L61 CPU MODULE WITH NEW L81 CPU MODULE, INCLUDING NEW POWER MODULE.
- REPLACE EXIST. COMM MODULE WITH NEW COMM MODULE.
- REPLACE EXIST. DIGITAL AND ANALOG I/O CARDS WITH NEW DIGITAL AND ANALOG I/O CARDS. RE-LAND I/O TO SAME TERMINAL POSITIONS AS FORMER MODULES.



NOTE: ABOVE ARE PROPOSED MODIFICATIONS TO EXISTING PLC CONTROLS TO PROVIDE BACKUP POWER, OVER EXTENDED PERIODS OF NO RAIN AND NO UTILITY POWER, SEE SPECIFICATIONS.



1 AERIAL PHOTO FACING NORTH EAST
P8-C1 NTS

- NOTES:
1. MAP LINEWORK AND CADD INFORMATION ON THIS SHEET IS SHOWN FOR GRAPHICAL PURPOSES ONLY AND NOT MEANT TO ACCURATELY REFLECT SITE CONDITIONS OR REPRESENT SURVEY INFORMATION.

WELLINGTON STORMWATER PUMP STATION NO. 8 INFORMATION					
CONTROL STRUCTURE FEATURE	INTAKE WATER	RECEIVING WATER	PUMP CAPACITY (GPM)	VFD	PUMP OPERATION (NGVD)
PUMP 1	C-2	C-2	60,000	N	ON @ 12.2'
PUMP 2	C-2	C-2	60,000	N	OFF @ 12.0'

CADD File: F:\well\p8\1\CADD\DWG\PSP1CS01_M301 - OVERALL SITE.dwg
PLOT DATE: May 05, 2026 - 9:35pm

Vertical Datum:
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STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

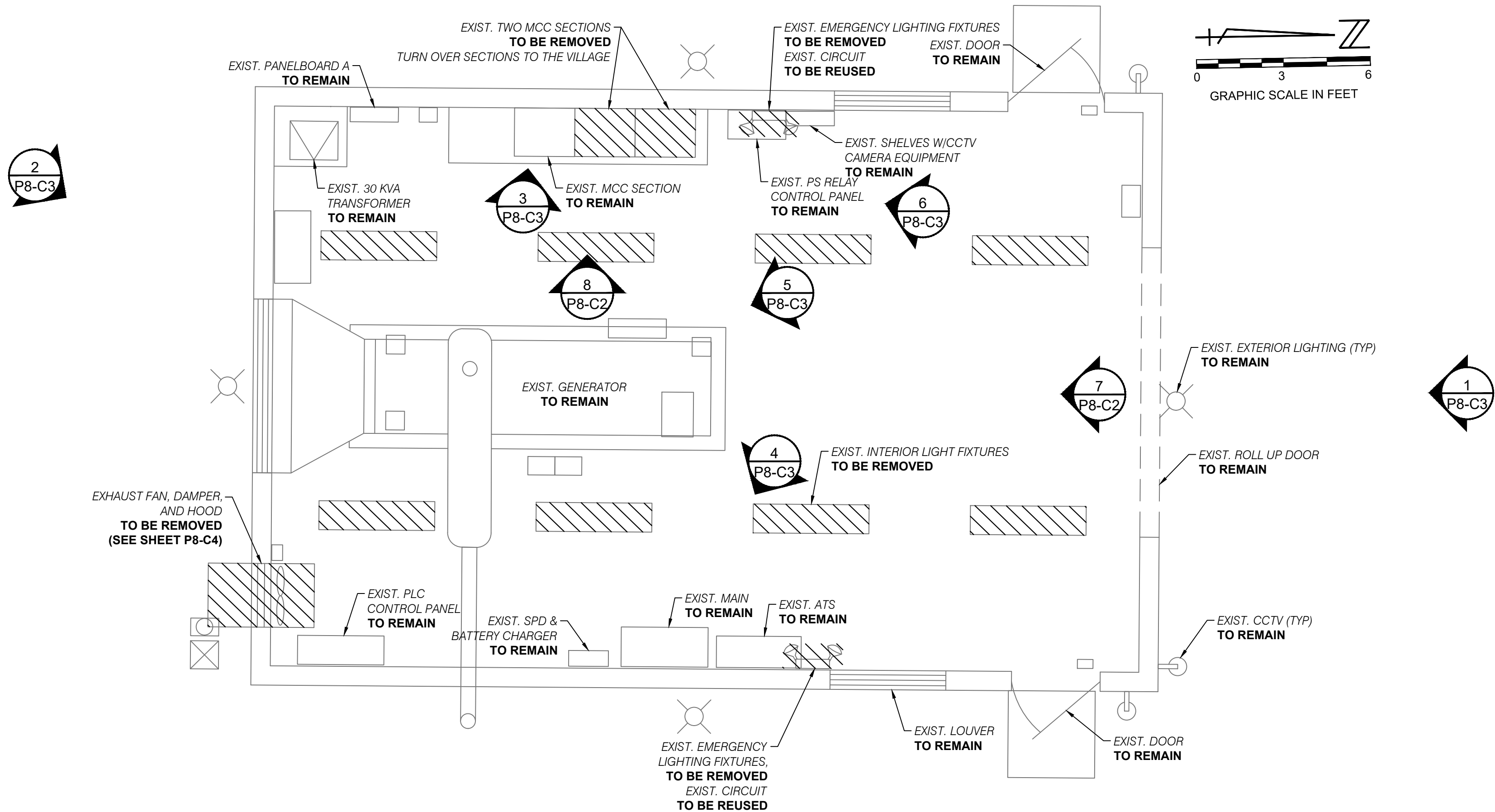
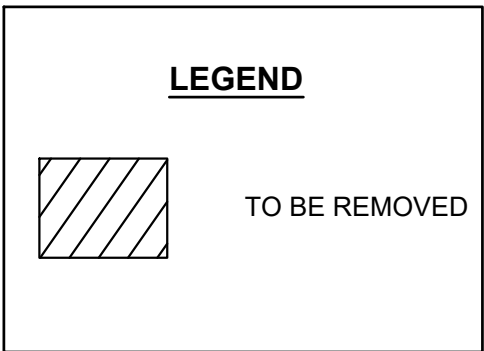
PUMP STATION NO. 8
OVERALL SITE PLAN

MAY 2026

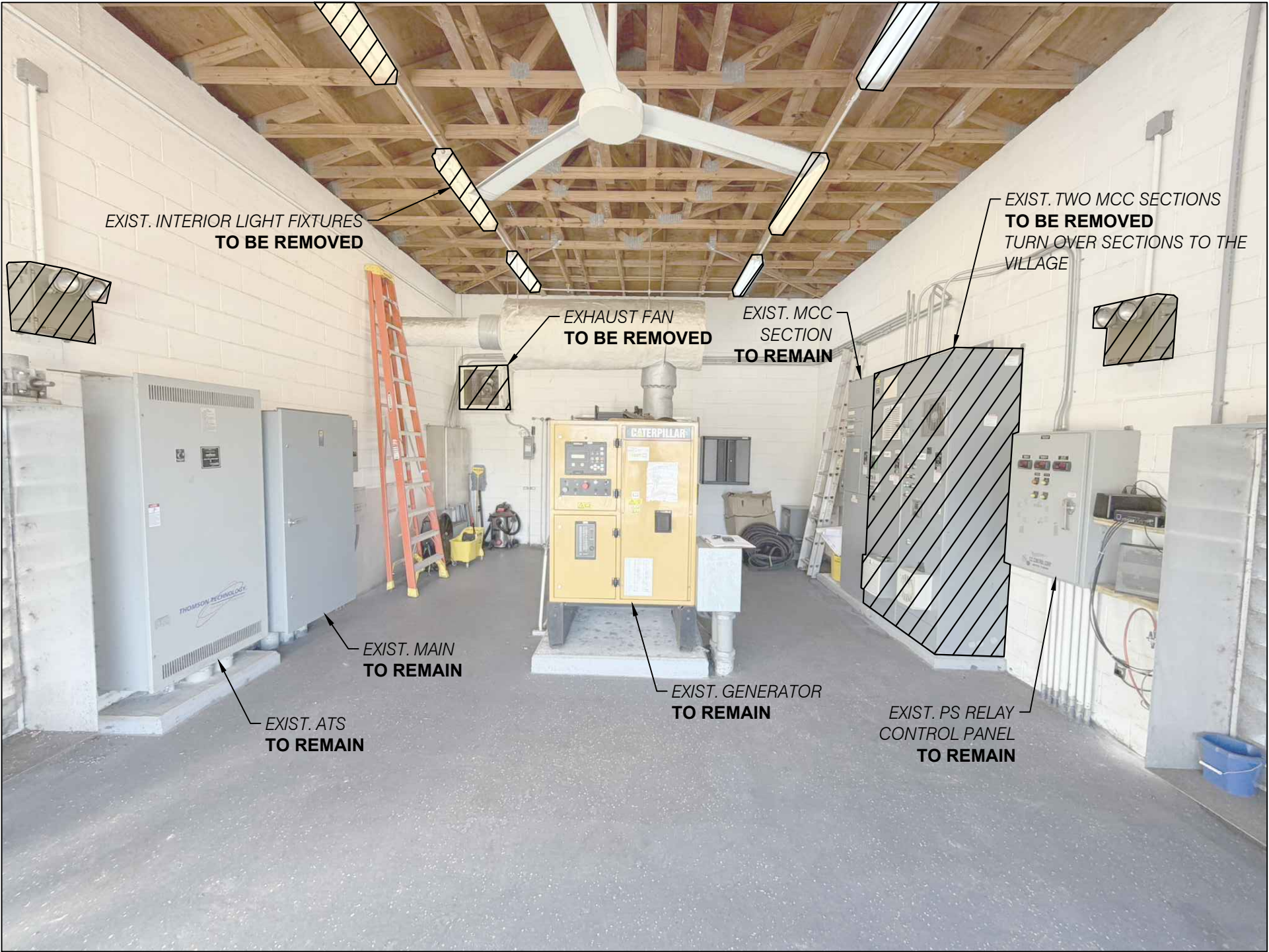
P8-C1

NOTES:

1. WHEN DEMOLISHING LIGHTING FIXTURES EXISTING LIGHTING CIRCUITS TO REMAIN AND TO BE REUSED WITH NEW FIXTURES.
2. EXISTING EQUIPMENT NOT BEING DEMOLISHED IS TO REMAIN AND BE PROTECTED.
3. MAJOR COMPONENTS ARE SHOWN WITH A DEMOLITION HATCH. MISCELLANEOUS CONDUIT, WIRE, CONCRETE, ETC. ARE TO BE REMOVED AS NEEDED TO COMPLETE THE WORK.



1 PUMP STATION NO. 8 DEMOLITION PLAN
P8-C2 NTS



7 SITE PHOTO FACING SOUTH
P8-C3 NTS



8 SITE PHOTO FACING WEST
P8-C3 NTS

CADD File: F:\well\p8\1\CADD\DWG\PSP1CS01_M303 - MECHANICAL DEMO PLAN.dwg
PLOT DATE: May 05, 2026 - 9:35pm

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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

**PUMP STATION NO. 8
DEMOLITION PLAN**

MAY 2026

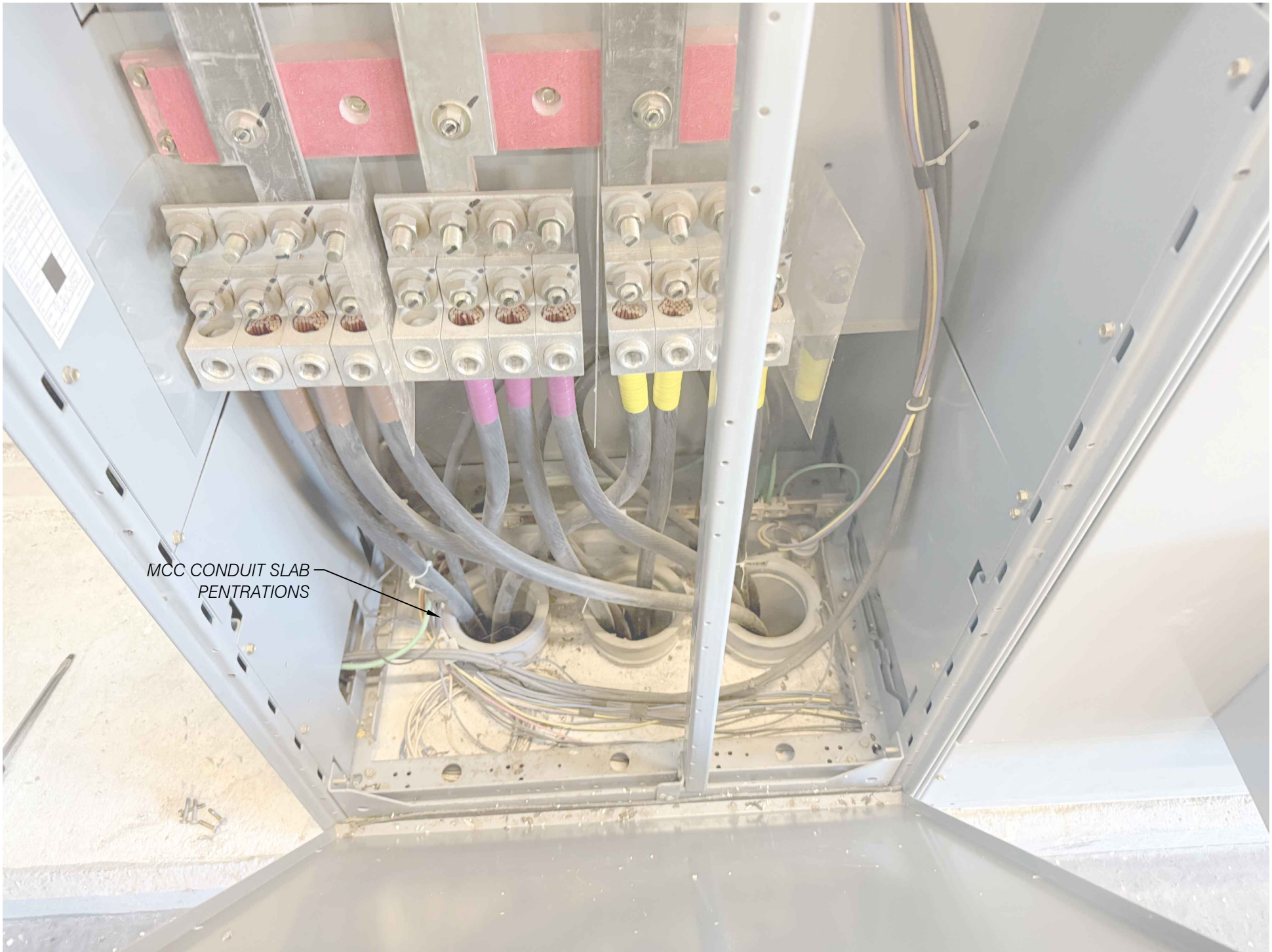
P8-C2



1 SITE PHOTO
P8-C3 NTS



2 SITE PHOTO
P8-C3 NTS



3 SITE PHOTO
P8-C3 NTS



4 SITE PHOTO
P8-C3 NTS



5 SITE PHOTO
P8-C3 NTS



6 SITE PHOTO
P8-C3 NTS

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PLOT DATE: May 05, 2026 - 9:35pm

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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SEAL
GARRYTT G. GRUBER
Florida P.E. No. 60721

Date

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Florida Reg. No. 48

Florida L.B. No. 48

**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

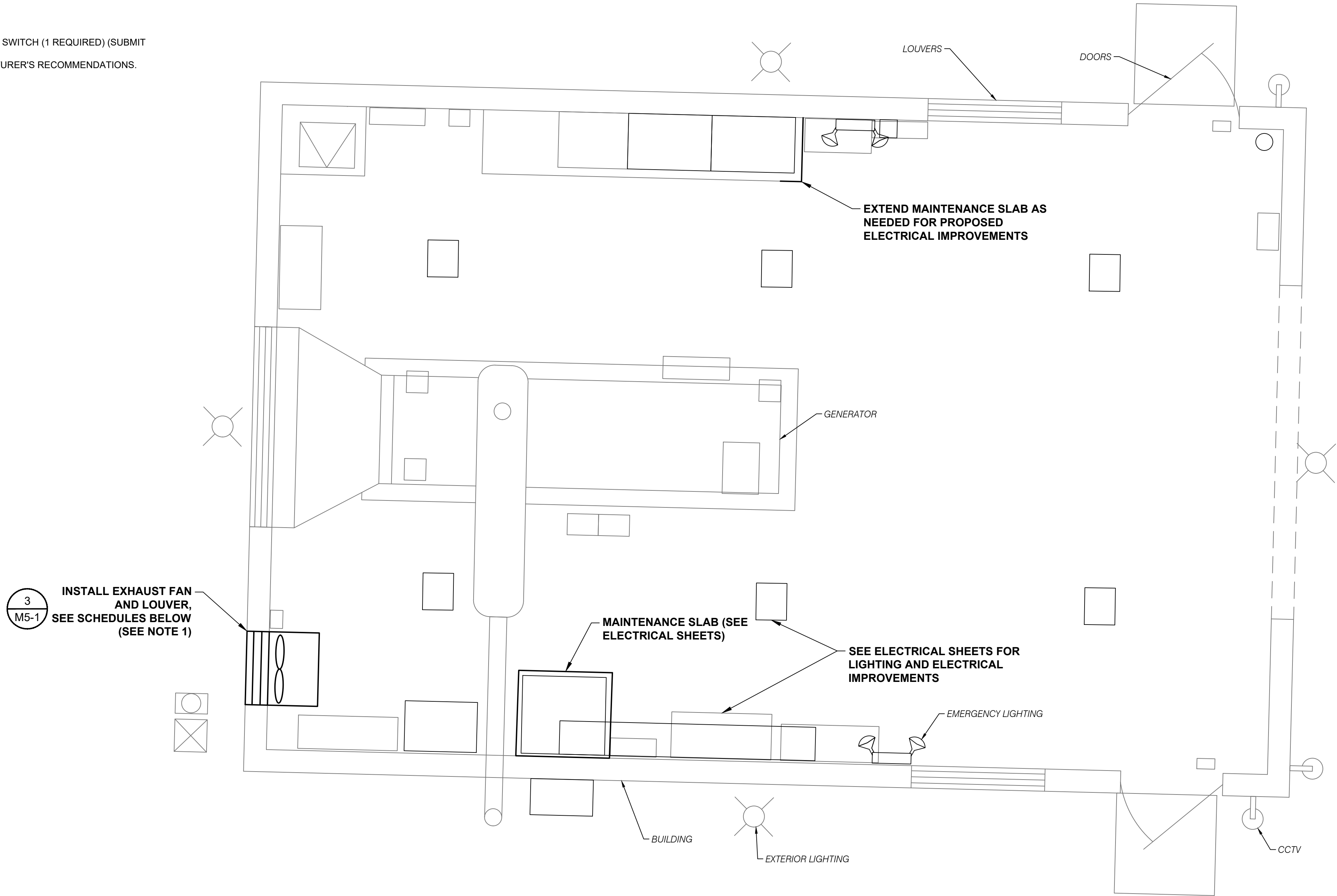
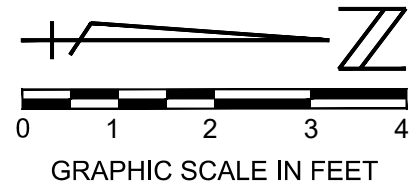
**PUMP STATION NO. 8
EXISTING SITE
PHOTOS**

MAY 2026

P8-C3

NOTES:

1. EXHAUST FANS TO INCLUDE INTEGRAL DISCONNECT SWITCH (1 REQUIRED) (SUBMIT SHOP DRAWINGS).
2. INSTALL EXHAUST FAN AND LOUVER PER MANUFACTURER'S RECOMMENDATIONS.



EXHAUST FAN SCHEDULE																
QUANTITY	MANUFACTURER	MODEL NUMBER	SP (in wg)	VOLUME (CFM)	DRIVE	FRPM	WEIGHT (LBS)	MOTOR					SONES	MOUNTING	FAN CONTROL	REMARKS
								HP	RPM	VOLTS	PH	FLA				
1	GREENHECK	SE1-20-420-VG	0.5	3950	DIRECT	1724	129	1	1725	115	1	11.5	20			1, 2, 3, 4
REMARKS																
1. FAN INSTALLED PER MIAMI DADE NOA 12-0120.13																
2. LOUVER TO BE INSTALLED, SEE LOUVER SCHEDULE																

LOUVER SCHEDULE								
QUANTITY	MANUFACTURER	MODEL NUMBER	ΔP* (in wg)	VOLUME (CFM)	WIDTH (in)	HEIGHT (in)	FREE AREA (ft2)	REMARKS
1	GREENHECK	EVH-501D	0.437	3950	28	28	2.48	1, 2, 3, 4, 5
REMARKS								
1. HVHZ'S LMI CERTIFIED (AMCA 540)								
2. HVHZ'S WDR CERTIFIED (AMCA 550)								
3. LOUVER INSTALLED PER MIAMI DADE NOA 12-0628.06								
4. BUG SCREEN								
5. BIRD SCREEN								
*ΔP DOES NOT INCLUDE LOUVER APPURTENANCES								

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PLOT DATE: May 05, 2026 - 9:35pm

Bar is equal to one inch on original drawing.
Adjust all scaled dimensions accordingly.

Vertical Datum:
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STORMWATER PUMP STATIONS NOS. 3, 4, 6, 7, 8, AND 9 IMPROVEMENTS
VILLAGE OF WELLINGTON

PUMP STATION NO. 8 MECHANICAL & CIVIL IMPROVEMENTS
--

MAY 2026
P8-C4

SPECIFIC ELECTRICAL NOTES

- 1

PROVIDE FROM EXIST. PS PLC CP 1" CONDUIT WITH 13#14 WIRES FOR STATUS OF VFD, PROVIDE 1" CONDUIT WITH 3TSP FOR ANALOG SPEED REFERENCE AND CONTROL TO EACH VFD.
- 2

CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL SCADA PROGRAMMING REVISIONS.
- 3

PROVIDE 120V RELAY TO KILL FAN CIRCUIT WHEN GENERATOR RUNS, PROVIDE NEMA 1 ENCLOSURE.
- 4

BASE BID:

REPLACE THE TWO EXISTING VFD MCC SECTIONS WITH NEW, NO MODIFICATIONS ANTICIPATED DUE TO THE CONDUITS STUB UPS PENETRATING INTO THE HOUSEKEEPING PAD AT THE BOTTOM OF THE MCC SECTIONS BEING REPLACED. THE TWO NEW SECTIONS ARE 30" WIDE INSTEAD OF THE EXISTING 25".

ALTERNATE BID:

PROVIDE REPLACEMENT OF THE TWO EXISTING VFD MCC SECTIONS WITH TWO NEW VFD MCC SECTIONS THAT ARE 30" WIDE, AND INCLUDE RAISING THE HOUSEKEEPING PAD, OR PROVIDING A 4" RECTANGULAR METAL FRAME TO BE INSTALLED BETWEEN THE EXISTING HOUSEKEEPING PAD AND THE BOTTOM OF THE MCC, THIS WOULD EFFECTIVELY RAISE THE MCC'S BOTTOM 4" CLEARING THE CONDUIT STUB UPS.
- 5

PROVIDE 1P-20 CB FOR OUTSIDE RECEPT.
- 6

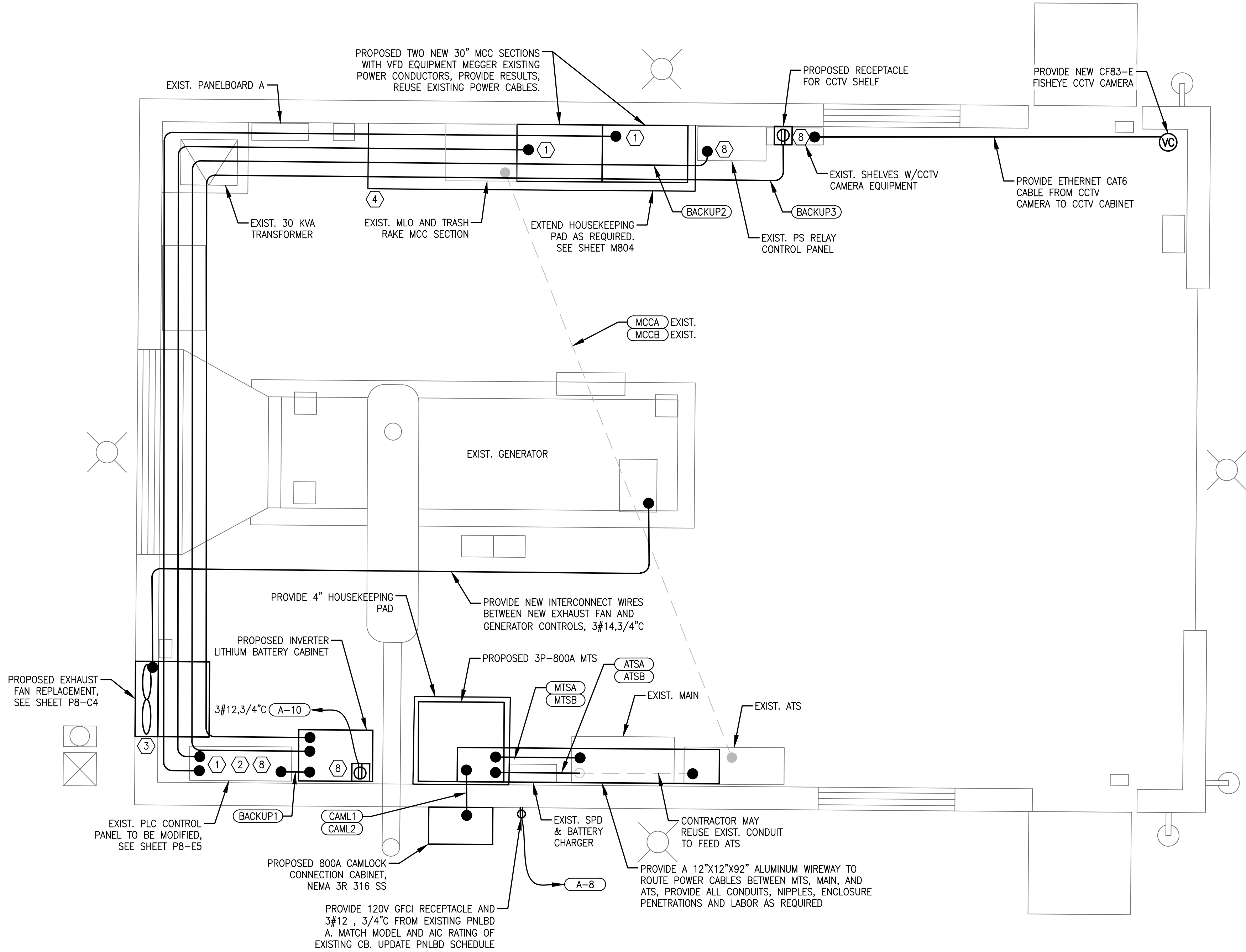
PROVIDE 1P-20 CB FOR BATTERY CABINET.
- 7

PROVIDE 1P-20 CB FOR EXT. POLE LIGHT.
- 8

PROVIDE PLACARD "120V POWER FROM INVERTER/BATTERY BACKUP-WARNING DISABLE BACKUP POWER AT INVERTER/BATTERY CABINET FIRST".

GENERAL ELECTRICAL NOTES

1. ALL RACEWAY RUNS ARE SHOWN DIAGRAMMATIC. PROVIDE PULL BOXES WHERE REQUIRED BY CODE.
2. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT LAYOUT MEETING NEC CLEARANCES.
3. BOND MCC TO EXISTING GROUND. BOND MCC TO EXISTING GROUND. EXTEND 2/0 BONDING WIRE AS REQUIRED.
4. CONTRACTOR SHALL CONCEAL ALL CONDUCTORS.
5. PROVIDE MEGGER TEST RESULTS.
6. PROVIDE TORQUE READINGS FOR POWER WIRE TERMINATIONS.
7. PROVIDE LOOP CHECKS FOR ALL CONTROL WIRING/STATUS.



EXIST. PANELBOARD A

NTS.

Voltage		Phase
1	Batt. Charger	2
3	SPARE	4
5	SPARE	6
7	SPARE	8
9	Rec	10
11	Rec	12
13	Lighting	14
15	Lighting	16
17	SPARE	18
19	Exhaust Fan	20
21	DFS RTU	22
23	LP1 Pole	24
25	LP1 Rec	26
27	LP2 Pole	28
29	LP2 rec	30
31	Control Panel	32
33		34
35		36
37		38
39		40
41		42

SPARE

SPARE

OUTSIDE RECEPT.

BATTERY CABINET

EXT. POLE LIGHT

Surge protector

EXIST. PANELBOARD SCHEDULE

NTS.

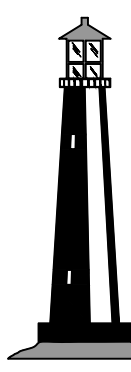
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PLOT DATE: May 04, 2026 - 11:43am

Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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256815



C&W engineering
ELECTRICAL CONSULTANTS
6903 VISTA PARKWAY NORTH, SUITE 10
WEST PALM BEACH, FL. 33411
(561) 642-5333
REGISTRATION NUMBERS
C & W ENGINEERING INC. CA# 33315
MICHAEL A. GUIDA, P.E. 60755

SEAL
MICHAEL A. GUIDA
Florida P.E. No. 60755

Date

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Florida L.B. No. 48

STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

PUMP STATION NO. 8
ELECTRICAL
INSTALLATION PLAN

MAY 2026

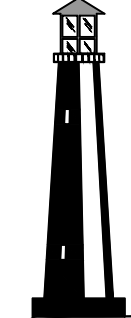
P8-E1

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PLOT DATE: May 04, 2026 - 11:43am

Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
P.A. No.
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Dwg. No.
43-41-33-07
Location:
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No.	Date	By	Revision
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SEAL

MICHAEL A. GUIDA
Florida P.E. No. 60755

Date

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STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

PUMP STATION NO. 8
OVERALL LIGHTING
PLAN

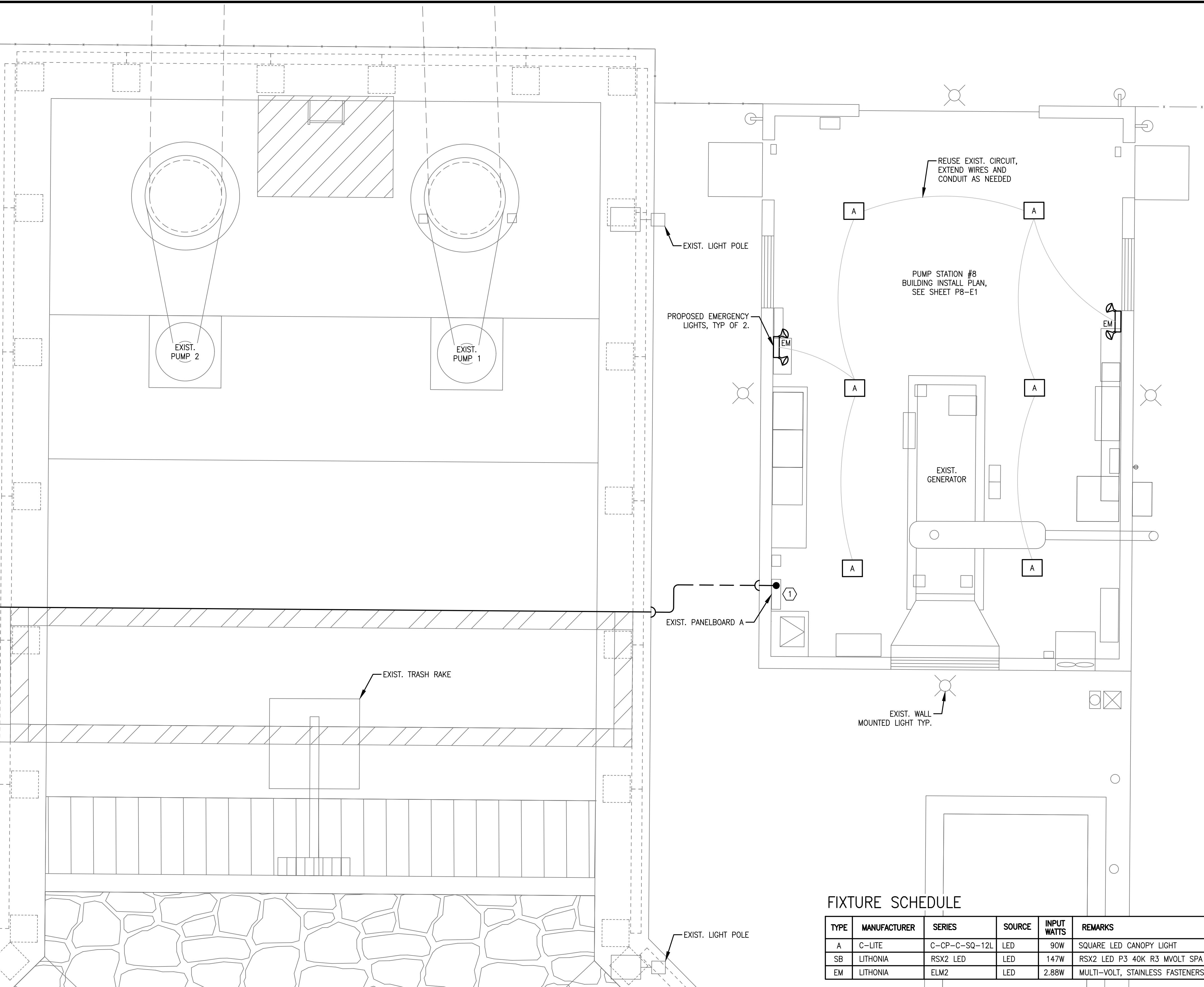
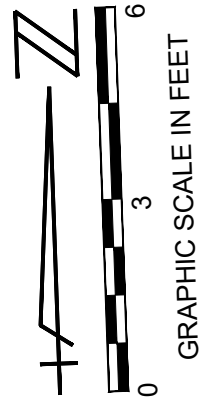
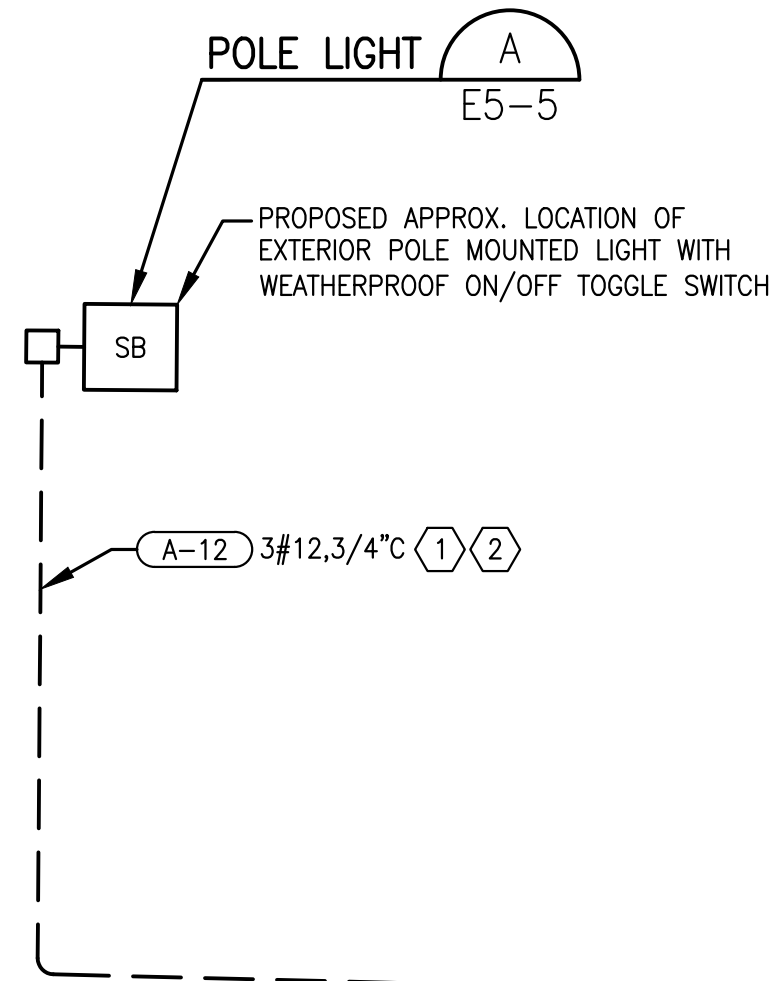
MAY 2026
P8-E2

SPECIFIC ELECTRICAL NOTES

- 1) UPDATE PANELBOARD SCHEDULE TO REFLECT NEW POLE LIGHT CIRCUIT.
- 2) ROUTING IS SHOWING DIAGRAMMATICALLY. COORDINATE WITH OWNER ROUTING PRIOR TO INSTALLATION AND OBTAIN APPROVAL.

GENERAL ELECTRICAL NOTES

1. NOT ALL ELECTRICAL EQUIPMENT ARE SHOWN HERE, REFER TO OTHER DRAWINGS.
2. PROPOSED ROUTING IS SHOWN FOR NEW CIRCUIT RACEWAY, CONTRACTOR SHALL PROVIDE PULL BOXES AND CONDUIT SUPPORTS AS REQUIRED BY CODE.
3. PROVIDE ALL GROUNDING AS REQUIRED BY NEC AND CONTRACT DOCUMENTS.
4. PROVIDE DUCT SEAL AT ALL ENCLOSURE CONDUIT PENETRATIONS.



FIXTURE SCHEDULE

TYPE	MANUFACTURER	SERIES	SOURCE	INPUT WATTS	REMARKS
A	C-LITE	C-CP-C-SQ-12L	LED	90W	SQUARE LED CANOPY LIGHT
SB	LITHONIA	RSX2 LED	LED	147W	RSX2 LED P3 40K R3 MVOLT SPA PER7 DBBXD
EM	LITHONIA	ELM2	LED	2.88W	MULTI-VOLT, STAINLESS FASTENERS, DAMP, BATTERY BACKED

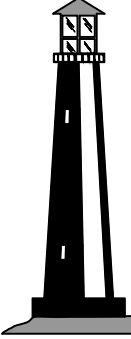
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PLOT DATE: May 04, 2026 - 11:43am

Bar is equal to one inch on original drawing

Vertical Datum:
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SEAL

MICHAEL A. GUIDA
Florida P.E. No. 60755

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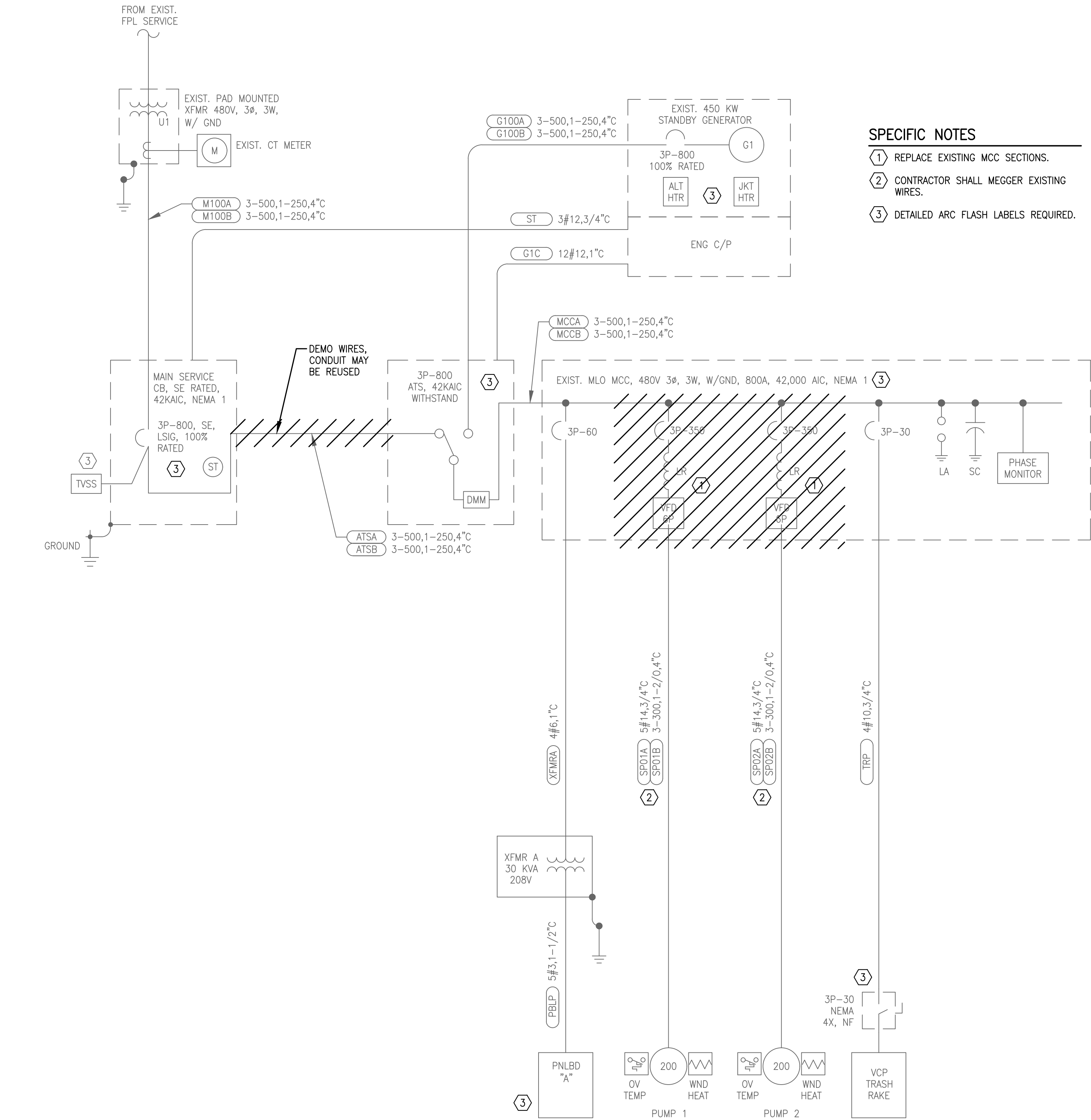
STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

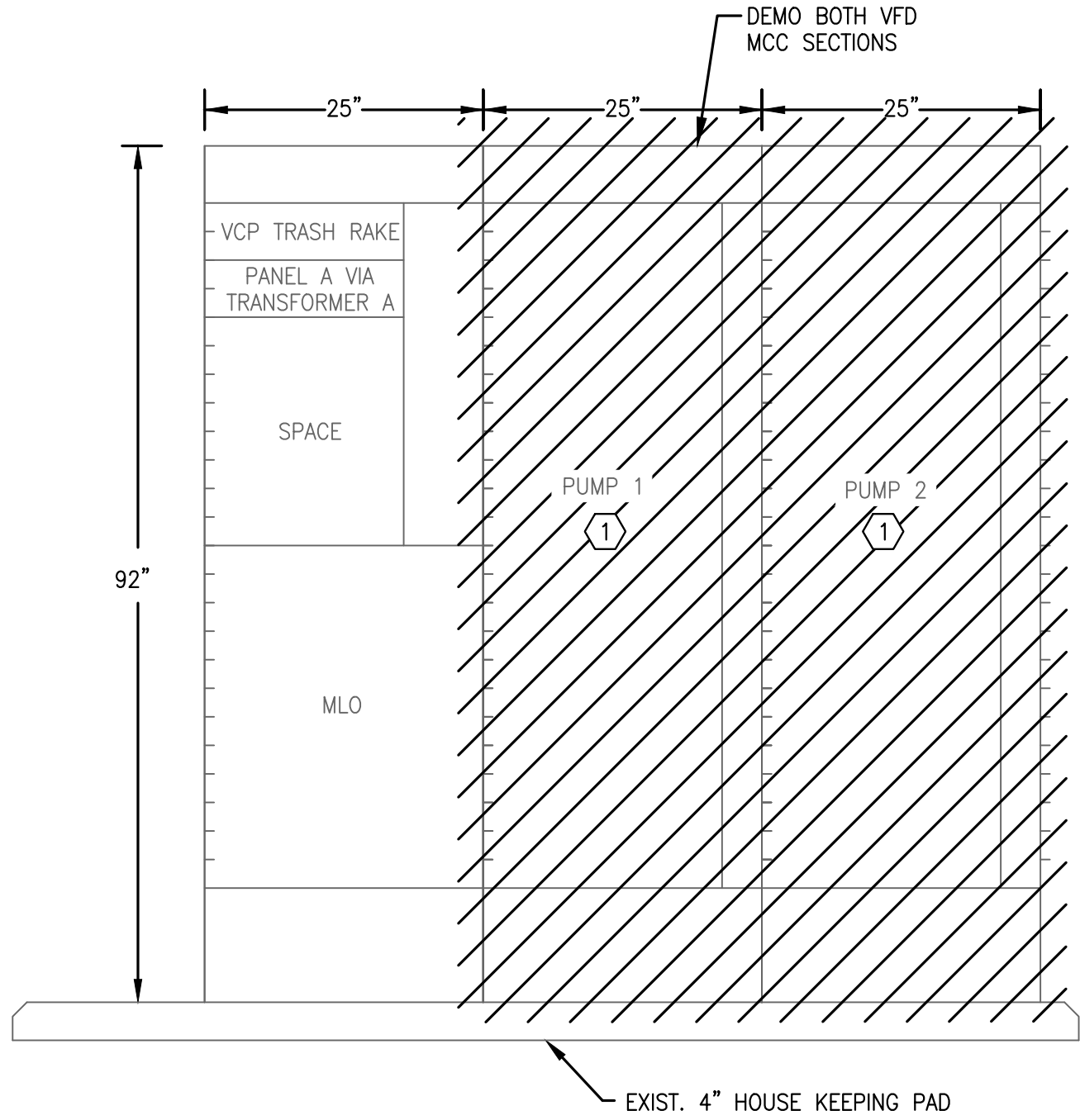
PUMP STATION NO. 8
ELECTRICAL DEMO
ONELINE

MAY 2026

P8-E3



- SPECIFIC NOTES**
- 1) REPLACE EXISTING MCC SECTIONS.
 - 2) CONTRACTOR SHALL MEGGER EXISTING WIRES.
 - 3) DETAILED ARC FLASH LABELS REQUIRED.



MCC A ELEVATION

NTS

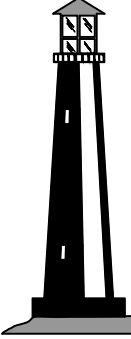
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PLOT DATE: May 04, 2026 - 11:43am

Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision

256815

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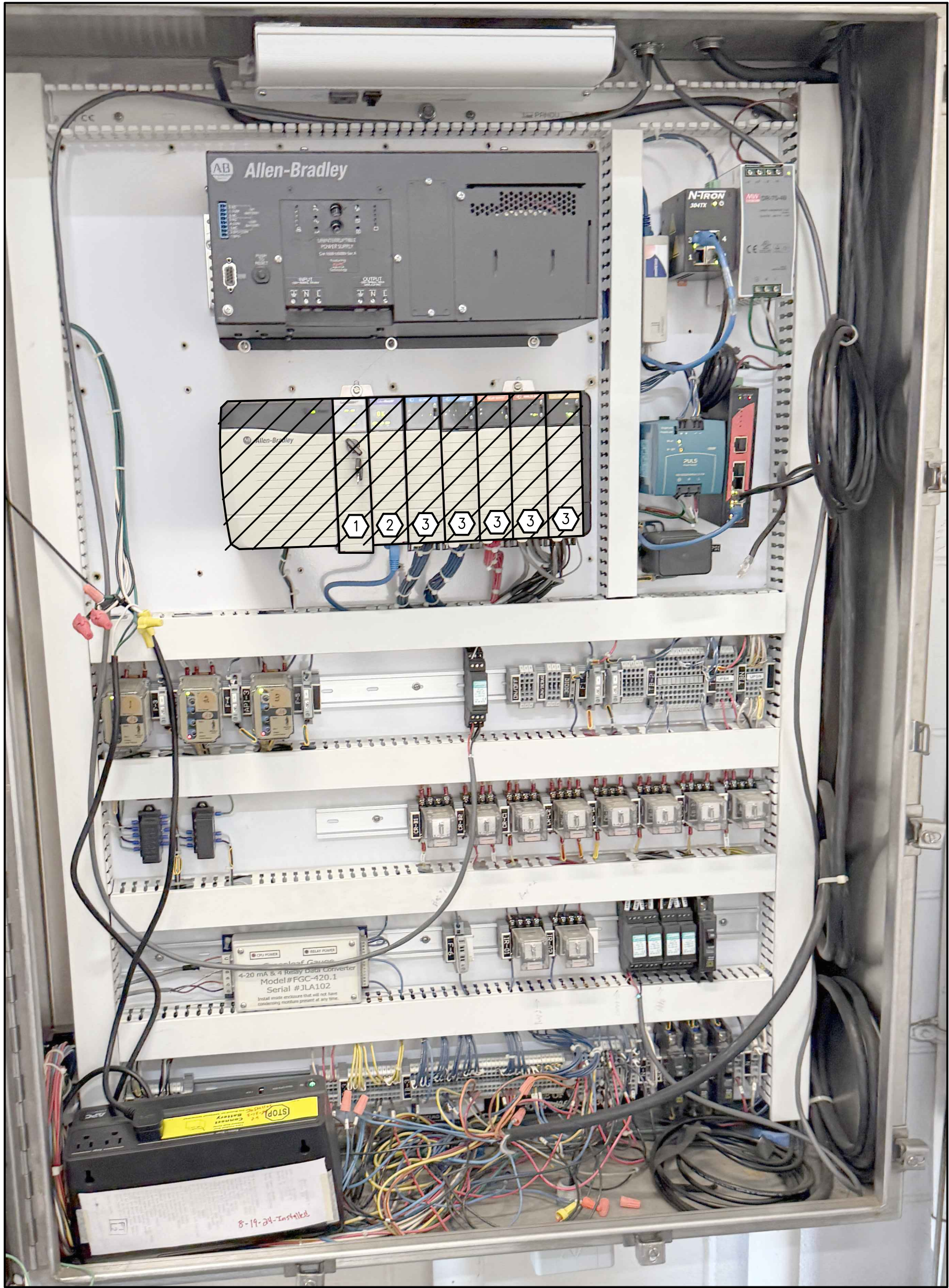
STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

PUMP STATION NO. 8
PLC MODIFICATION
DETAILS

MAY 2026

P8-E5



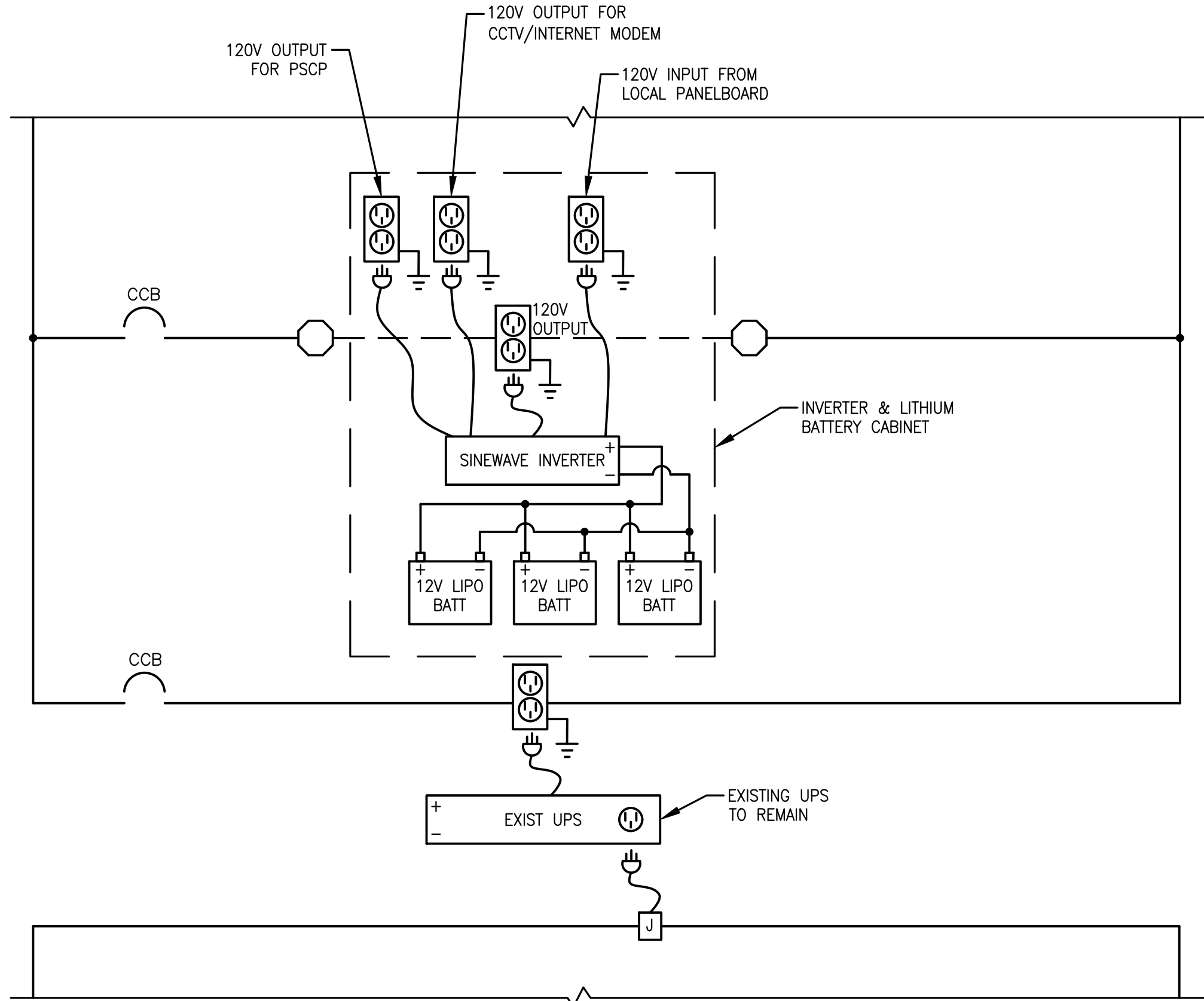
PUMP STATION NO. 8 PLC MODIFICATION DETAILS

GENERAL ELECTRICAL NOTES

- CONTRACTOR SHALL DOWNLOAD THE PLC PROGRAM FROM THE EXISTING PLC.
- CONTRACTOR SHALL COORDINATE WITH STAFF TO SHUT DOWN EXISTING PLC CONTROL PANEL POWER, AND ALLOW FOR POWER SUPPLIES TO DISCHARGE.
- AFTER NEW CARDS AND MODULES ARE INSTALLED, POWER SUPPLIES AND CONTROL PANEL SHALL BE POWERED UP AND EQUIPMENT TESTED.
- CONTRACTOR SHALL CONNECT TO CPU AND INSTALL PLC PROGRAM.
- AFTER PROGRAM IS INSTALLED, PLC SHALL BE REBOOTED AND TESTED TO ENSURE THE PLC IS WORKING PROPERLY AND SCADA IS RECEIVING STATUS OF THE I/O CONNECTED TO THE PLC.

SPECIFIC ELECTRICAL NOTES

- REPLACE EXIST. L61 CPU MODULE WITH NEW L81 CPU MODULE, INCLUDING NEW POWER MODULE.
- REPLACE EXIST. COMM MODULE WITH NEW COMM MODULE.
- REPLACE EXIST. DIGITAL AND ANALOG I/O CARDS WITH NEW DIGITAL AND ANALOG I/O CARDS. RE-LAND I/O TO SAME TERMINAL POSITIONS AS FORMER MODULES.



NOTE: ABOVE ARE PROPOSED MODIFICATIONS TO EXISTING PLC CONTROLS TO PROVIDE BACKUP POWER, OVER EXTENDED PERIODS OF NO RAIN AND NO UTILITY POWER, SEE SPECIFICATIONS.

CADD File: F:\well\p1\CAD\DWG\PSP1\CS01_M301 - OVERALL SITE.dwg
PLOT DATE: May 05, 2026 - 9:35pm

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STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

PUMP STATION NO. 9
OVERALL SITE PLAN

MAY 2026

P9-C1



1 AERIAL PHOTO FACING NORTH EAST
P9-C1 NTS

NOTES:

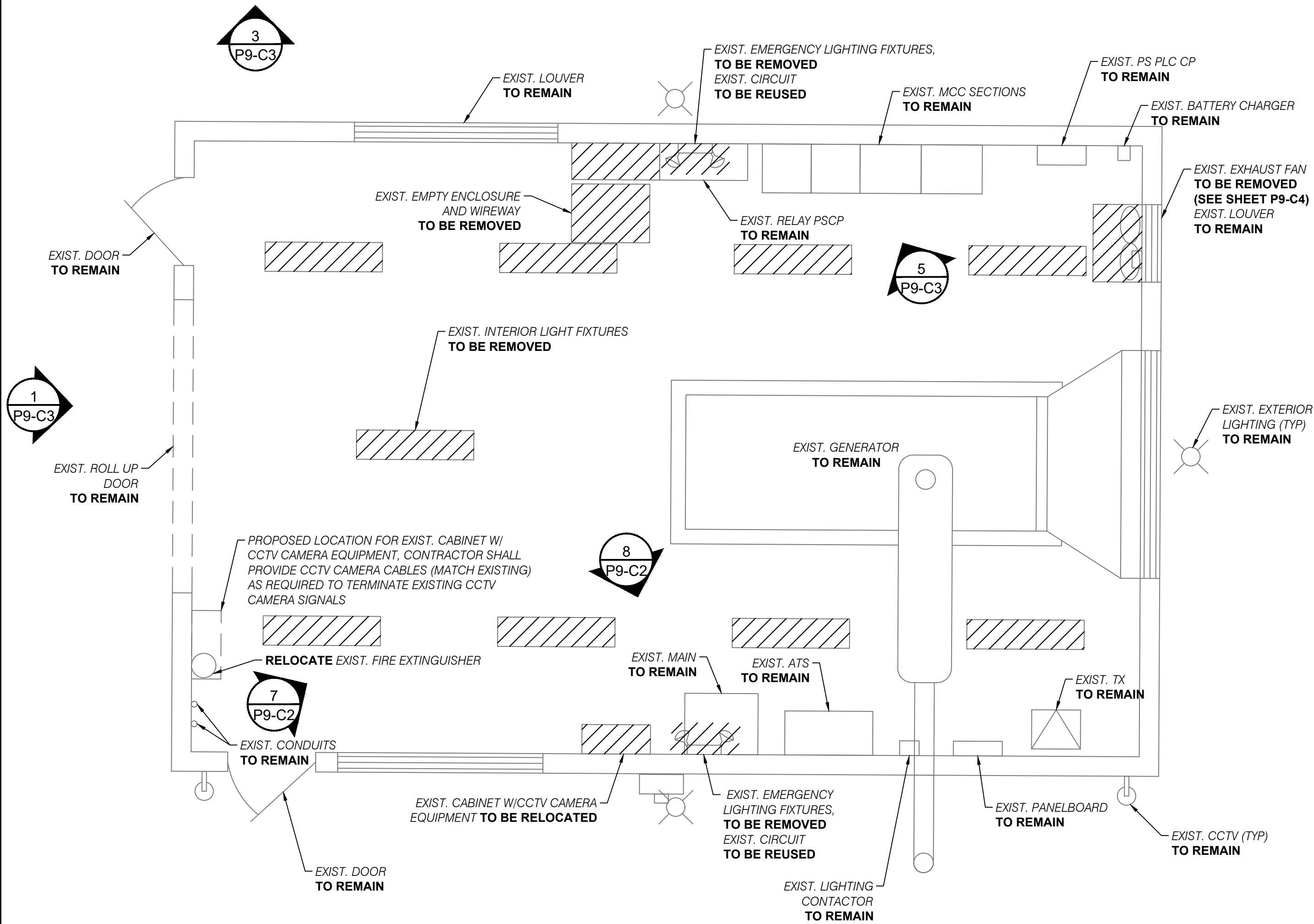
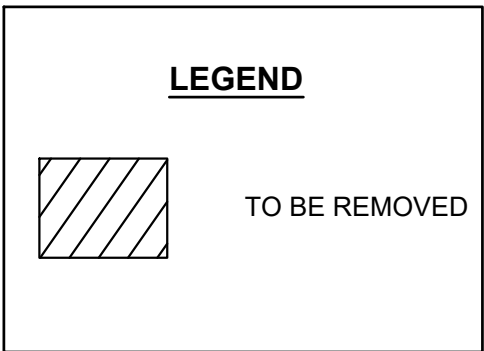
- CONTRACTOR TO ACCESS THE SITE FROM THE WELLINGTON ENVIRONMENTAL PRESERVE SOUTH ENTRANCE PARKING LOT.
- MAP LINEWORK AND CADD INFORMATION ON THIS SHEET IS SHOWN FOR GRAPHICAL PURPOSES ONLY AND NOT MEANT TO ACCURATELY REFLECT SITE CONDITIONS OR REPRESENT SURVEY INFORMATION.

WELLINGTON STORMWATER PUMP STATION NO. 4 INFORMATION

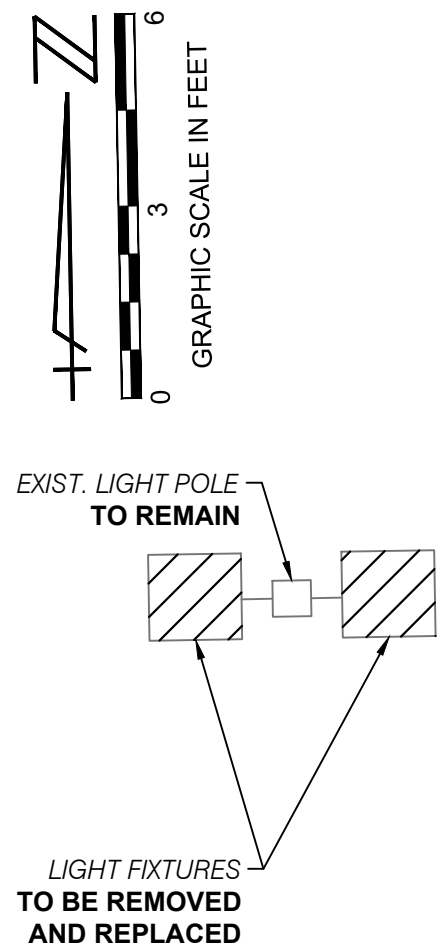
CONTROL STRUCTURE FEATURE	INTAKE WATER	RECEIVING WATER	PUMP CAPACITY (GPM)	VFD	PUMP OPERATION (NGVD)
PUMP 1	C-1	W.E.P.	45,000	N	On @ 13.0', Off @ 12.0' in C-1 or @ 15.0' in WNP
PUMP 2	C-1	W.E.P.	45,000	N	
GRAVITY DISCHARGE GATE					

NOTES:

1. WHEN DEMOLISHING LIGHTING FIXTURES EXISTING LIGHTING CIRCUITS TO REMAIN AND TO BE REUSED WITH NEW FIXTURES.
2. EXISTING EQUIPMENT NOT BEING DEMOLISHED IS TO REMAIN AND BE PROTECTED.
3. MAJOR COMPONENTS ARE SHOWN WITH A DEMOLITION HATCH. MISCELLANEOUS CONDUIT, WIRE, CONCRETE, ETC. ARE TO BE REMOVED AS NEEDED TO COMPLETE THE WORK.



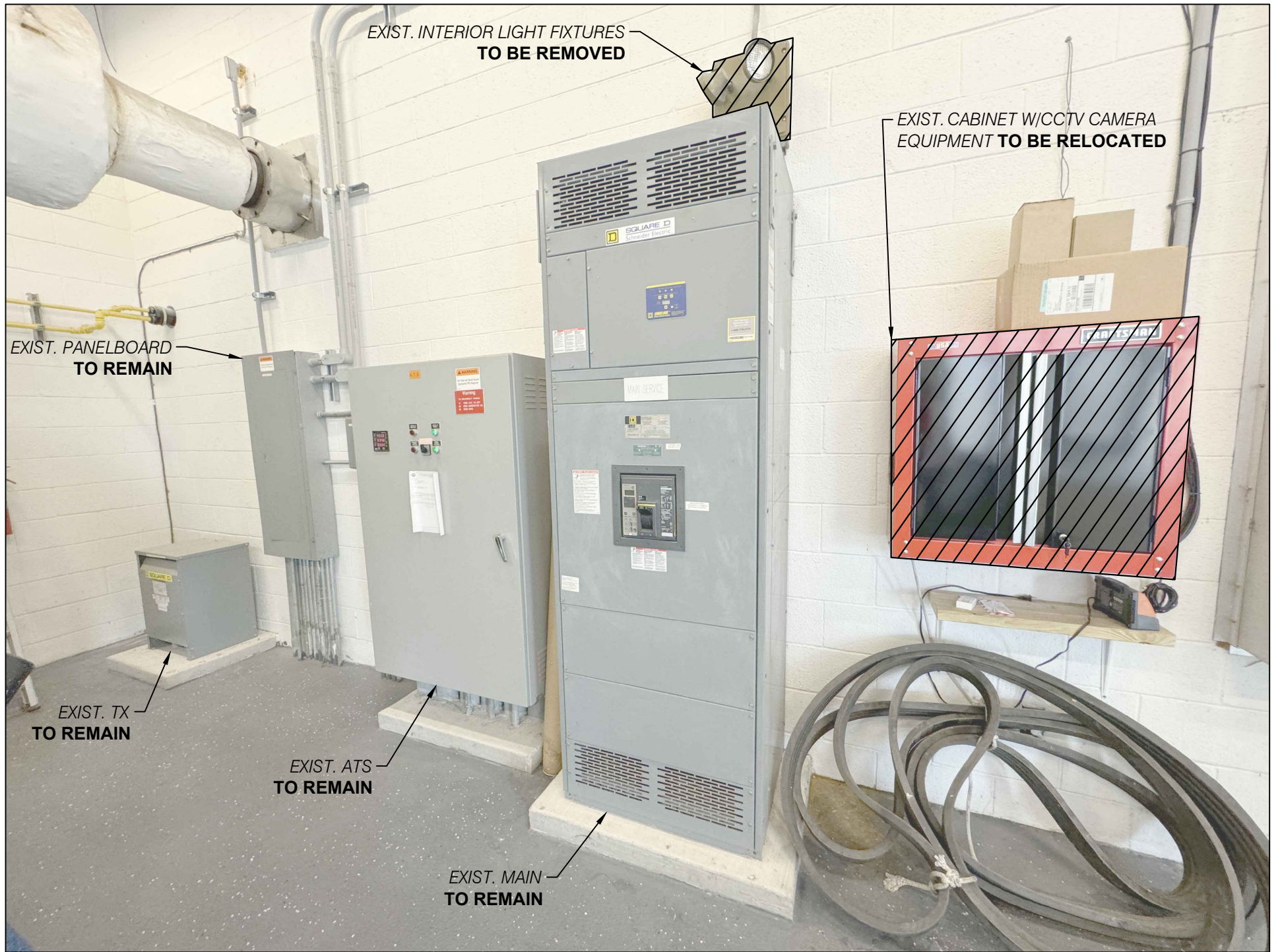
1 PUMP STATION NO. 9 DEMOLITION PLAN
P9-C2 NTS



2 P9-C3



7 SITE PHOTO FACING NORTH EAST
P9-C2 NTS



8 SITE PHOTO FACING SOUTH
P9-C2 NTS

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PLOT DATE: May 05, 2026 - 9:35pm

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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

**PUMP STATION NO. 9
DEMOLITION PLAN**

MAY 2026

P9-C2



1 SITE PHOTO
P9-C3 NTS



2 SITE PHOTO
P9-C3 NTS



3 SITE PHOTO
P9-C3 NTS



4 SITE PHOTO
P9-C3 NTS



5 SITE PHOTO
P9-C3 NTS



6 SITE PHOTO
P9-C3 NTS

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PLOT DATE: May 05, 2026 - 9:36pm

Vertical Datum:
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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

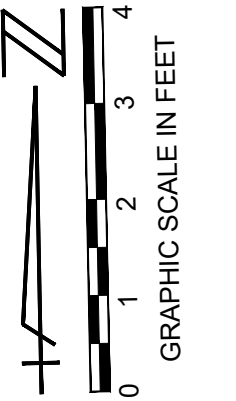
VILLAGE OF WELLINGTON

**PUMP STATION NO. 9
EXISTING SITE
PHOTOS**

MAY 2026

P9-C3

1. EXHAUST FANS TO INCLUDE INTEGRAL DISCONNECT SWITCH (1 REQUIRED)
(SUBMIT SHOP DRAWINGS)
2. INSTALL EXHAUST FAN PER MANUFACTURER'S RECOMMENDATIONS.



REMARKS	ENGINEER	DATE
1. FAN INSTALLED PER MIAMI DADE NOA 12-0120.13		
2. GRAVITY DAMPER		
3. WALL GRILLE		
4. BIRD SCREEN		

CADD File: F:\well\wellpsp1\CADD
PLOT DATE: May 05, 2026 - 9:
Bar is equal to one inch on original drawing

Dwg. No.
43-41-33-07

Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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Date _____

Florida L.B. No. 48

VILLAGE OF WELLINGTON

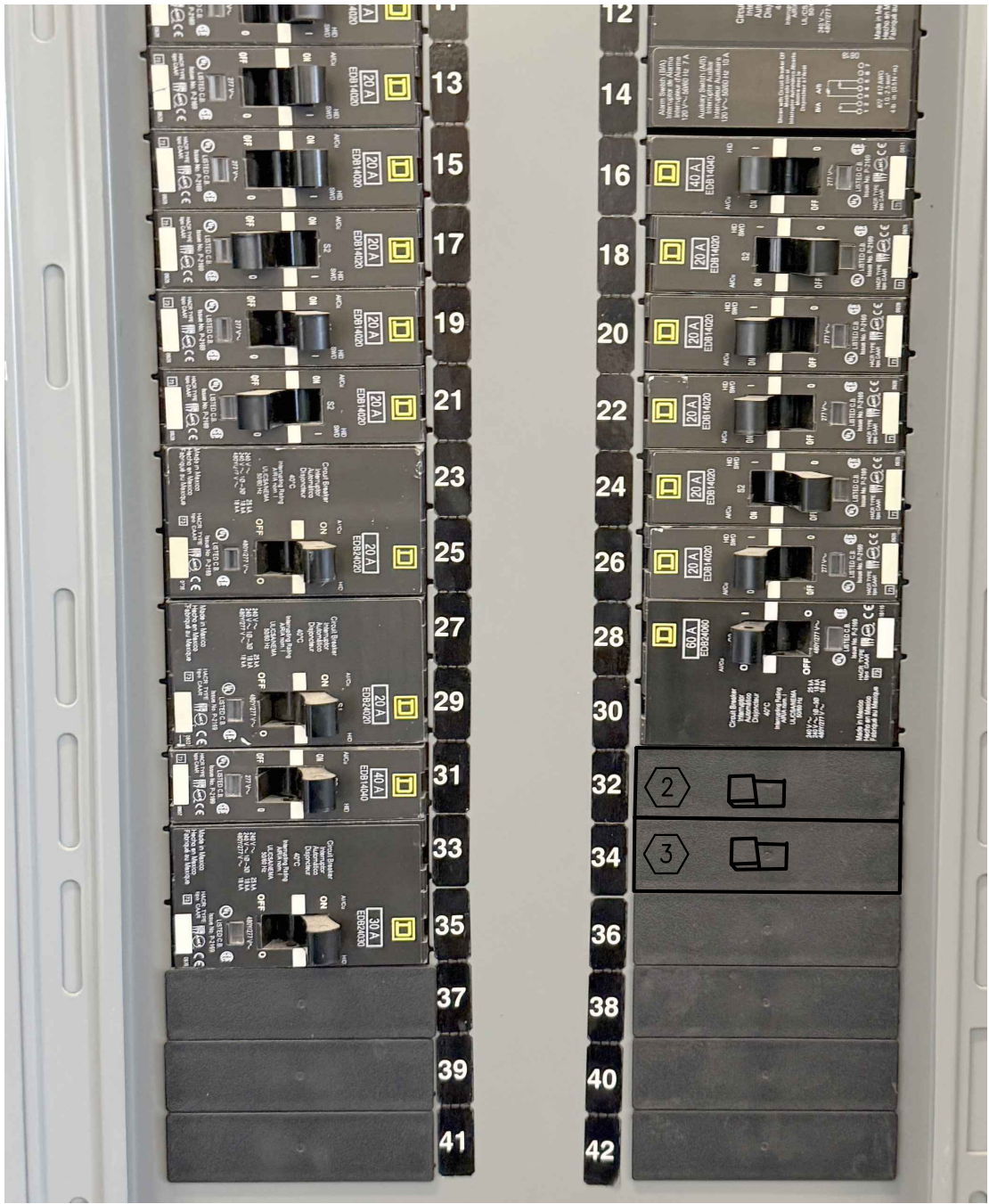
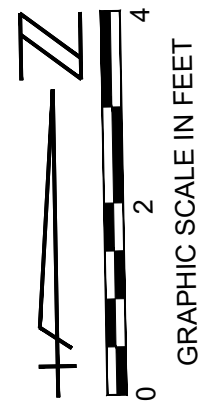
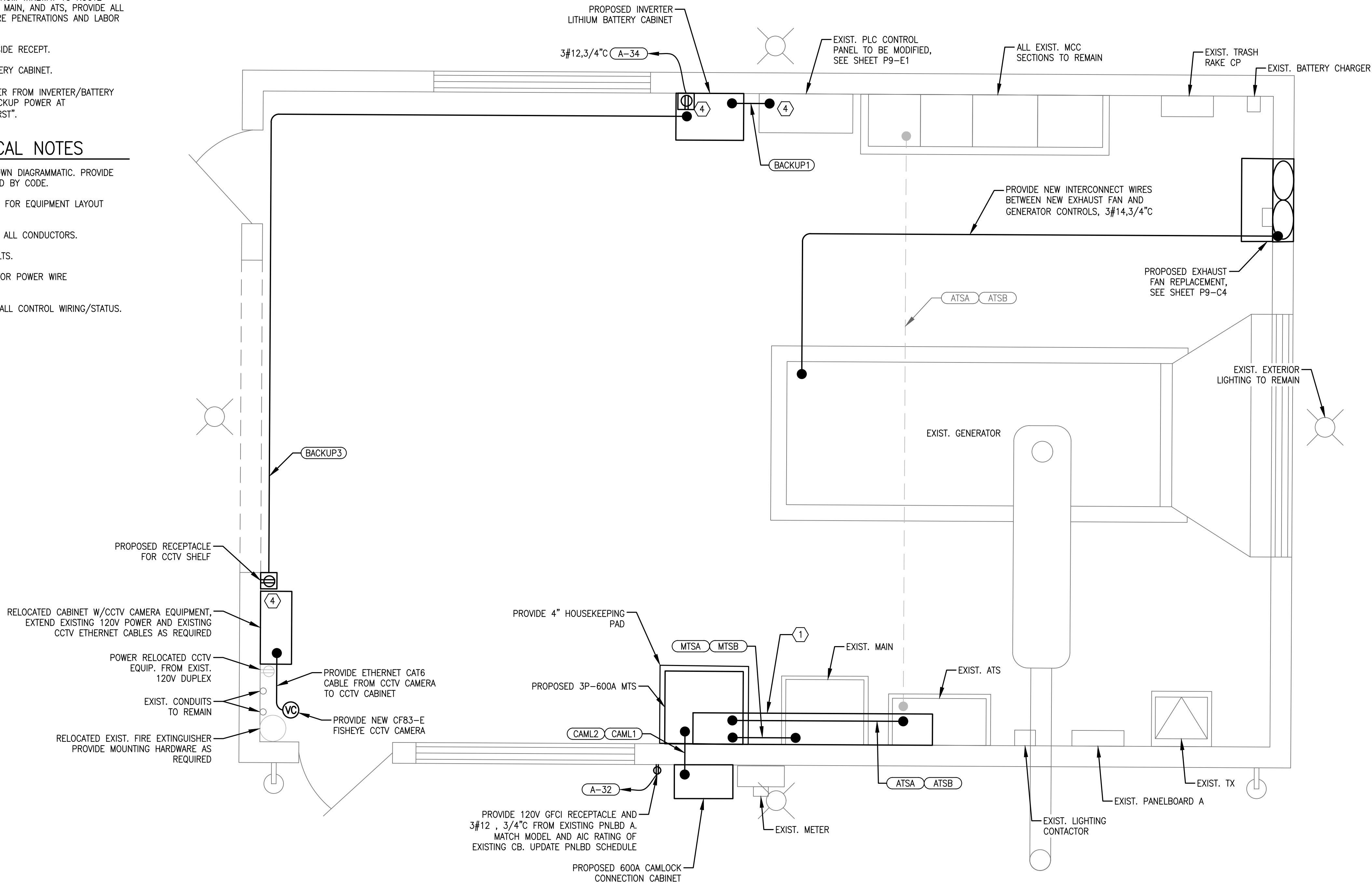
P9-C4

SPECIFIC ELECTRICAL NOTES

- 1. PROVIDE A 12"x12"x92" ALUMINUM WIREWAY TO ROUTE POWER CABLES BETWEEN MTS, MAIN, AND ATS. PROVIDE ALL CONDUITS, NIPPLES, ENCLOSURE PENETRATIONS AND LABOR AS REQUIRED.
- 2. PROVIDE 1P-20 CB FOR OUTSIDE RECEPT.
- 3. PROVIDE 1P-20 CB FOR BATTERY CABINET.
- 4. PROVIDE PLACARD "120V POWER FROM INVERTER/BATTERY BACKUP-WARNING DISABLE BACKUP POWER AT INVERTER/BATTERY CABINET FIRST".

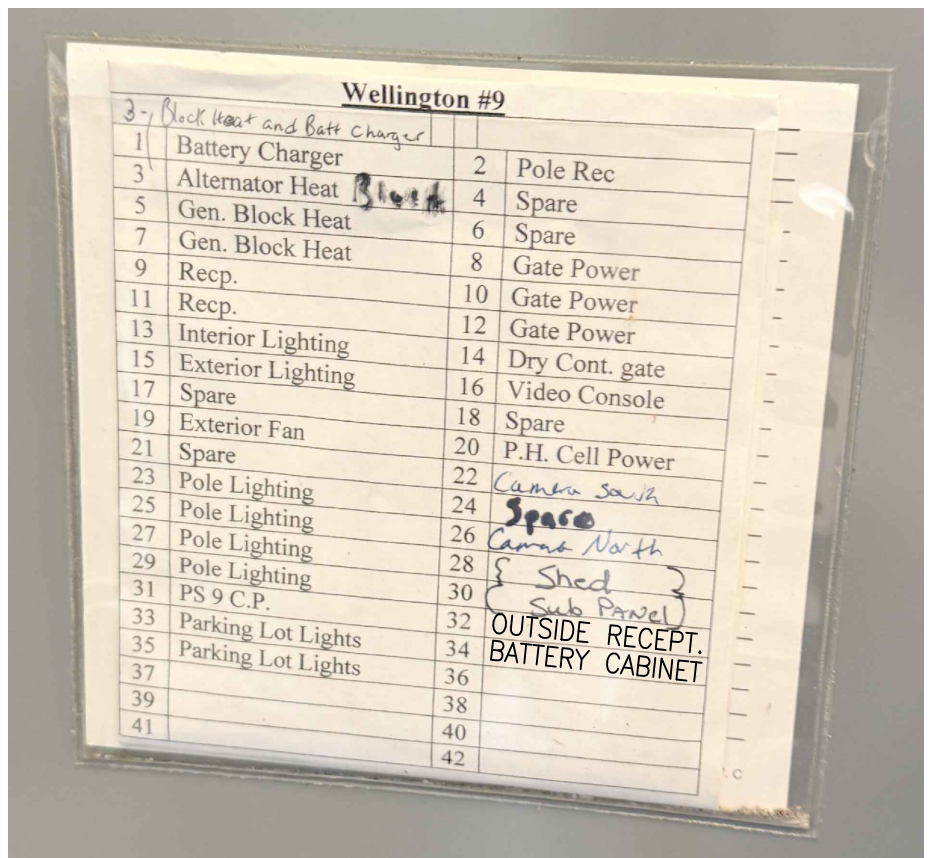
GENERAL ELECTRICAL NOTES

- 1. ALL RACEWAY RUNS ARE SHOWN DIAGRAMMATIC. PROVIDE PULL BOXES WHERE REQUIRED BY CODE.
- 2. CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT LAYOUT MEETING NEC CLEARANCES.
- 3. CONTRACTOR SHALL CONCEAL ALL CONDUCTORS.
- 4. PROVIDE MEGGER TEST RESULTS.
- 5. PROVIDE TORQUE READINGS FOR POWER WIRE TERMINATIONS.
- 6. PROVIDE LOOP CHECKS FOR ALL CONTROL WIRING/STATUS.



EXIST. PANELBOARD A

NTS.



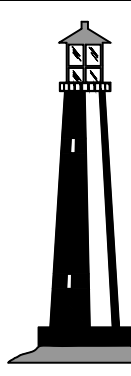
EXIST. PANELBOARD SCHEDULE

NTS.

CADD File: \\10.1.10.26\cadd\dropbox\JOBS\68-mock-roos\25681's village of wellington phase 1 pump station improvements\DRAWINGS\P9-E1 ELECTRICAL INSTALL PLAN PS-9.dwg
PLOT DATE: May 04, 2026 - 11:43am
Bar is equal to one inch on original drawing

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

256815



C&W engineering
ELECTRICAL CONSULTANTS
6903 VISTA PARKWAY NORTH, SUITE 10
WEST PALM BEACH, FL. 33411
(561) 642-5333
REGISTRATION NUMBERS
C & W ENGINEERING INC. CA# 33315
MICHAEL A. GUIDA, P.E. 60755

SEAL
MICHAEL A. GUIDA
Florida P.E. No. 60755

Date

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CONSULTING ENGINEERS

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Florida Reg. No. 48

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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

**PUMP STATION NO. 9
ELECTRICAL
INSTALLATION PLAN**

MAY 2026

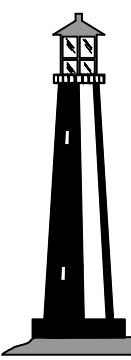
P9-E1

CADD File: \\10.1.10.26\c\w\dropbox\JOBS\c88-mock-roos\256815 village of wellington phase 1 pump station improvements\DRAWINGS\P9-E2 OVERALL LIGHTING PLAN PS-9.dwg
PLOT DATE: May 04, 2026 - 11:43am

Bar is equal to one inch on original drawing

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No.	Date	By	Revision



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STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

PUMP STATION NO. 9
OVERALL LIGHTING
PLAN

MAY 2026

P9-E2

GENERAL ELECTRICAL NOTES

1. NOT ALL ELECTRICAL EQUIPMENT ARE SHOWN HERE, REFER TO OTHER DRAWINGS.
3. PROVIDE ALL GROUNDING AS REQUIRED BY NEC AND CONTRACT DOCUMENTS.
4. PROVIDE DUCT SEAL AT ALL ENCLOSURE CONDUIT PENETRATIONS.

PUMP STATION #9
BUILDING INSTALL PLAN,
SEE SHEET P9-E1

REUSE EXIST. CIRCUIT,
EXTEND WIRES AND
CONDUIT AS NEEDED

EXIST. WALL
MOUNTED LIGHT TYP.

PROPOSED EMERGENCY
LIGHTS, TYP OF 2.

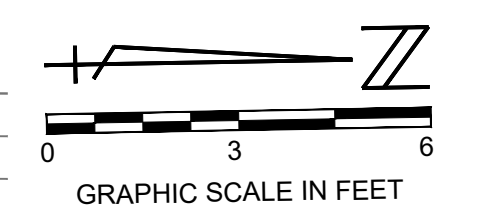
EXIST.
GENERATOR

EXIST. PANELBOARD A

EXIST.
PUMP 1

EXIST.
PUMP 2

EXIST. LIGHT POLE



FIXTURE SCHEDULE

TYPE	MANUFACTURER	SERIES	SOURCE	INPUT WATTS	REMARKS
A	C-LITE	C-CP-C-SQ-12L	LED	90W	SQUARE LED CANOPY LIGHT
SB	LITHONIA	RSX2 LED	LED	147W	RSX2 LED P3 40K R3 MVOLT SPA PER7 DDBXD
EM	LITHONIA	ELM2	LED	2.88W	MULTI-VOLT, STAINLESS FASTENERS, DAMP, BATTERY BACKED

REUSE POLE

REPLACEMENT LED FIXTURES, LITHONIA
RSX2 LED FIXTURES W/ TENON ARM
FOR POLE MOUNTING ON EXIST. POLE
PROVIDE WATERPROOF ON/OFF
TOGGLE SWITCH



1 DETAILED ARC FLASH LABELS REQUIRED.



NTS

No.	Date	By	Revision
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256815

SEAL

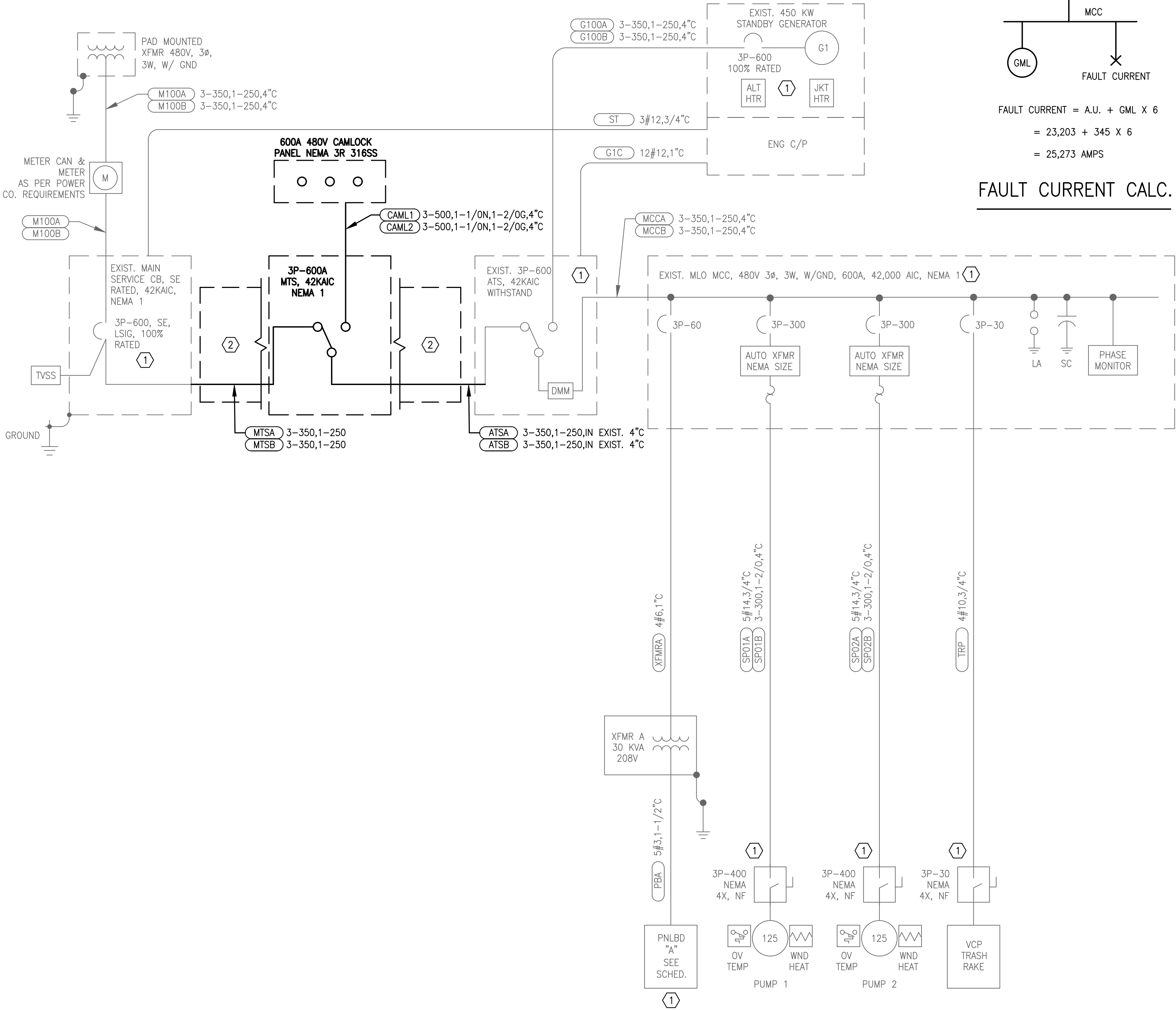
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STORMWATER PUMP STATIONS NOS. 3, 4, 6, 7, 8, AND 9

PUMP STATION NO. 9

MAY 2026

CADD File: \\10.1.10.26\c\w\dropbox\JOBS\68-mock-roos\25681's village of wellington phase 1 pump station improvements\DRAWINGS\P9-E4 ELECTRICAL INSTALL ONELINE P9-E4.dwg
PLOT DATE: May 04, 2026 - 11:44am



INSTALL ONELINE DIAGRAM

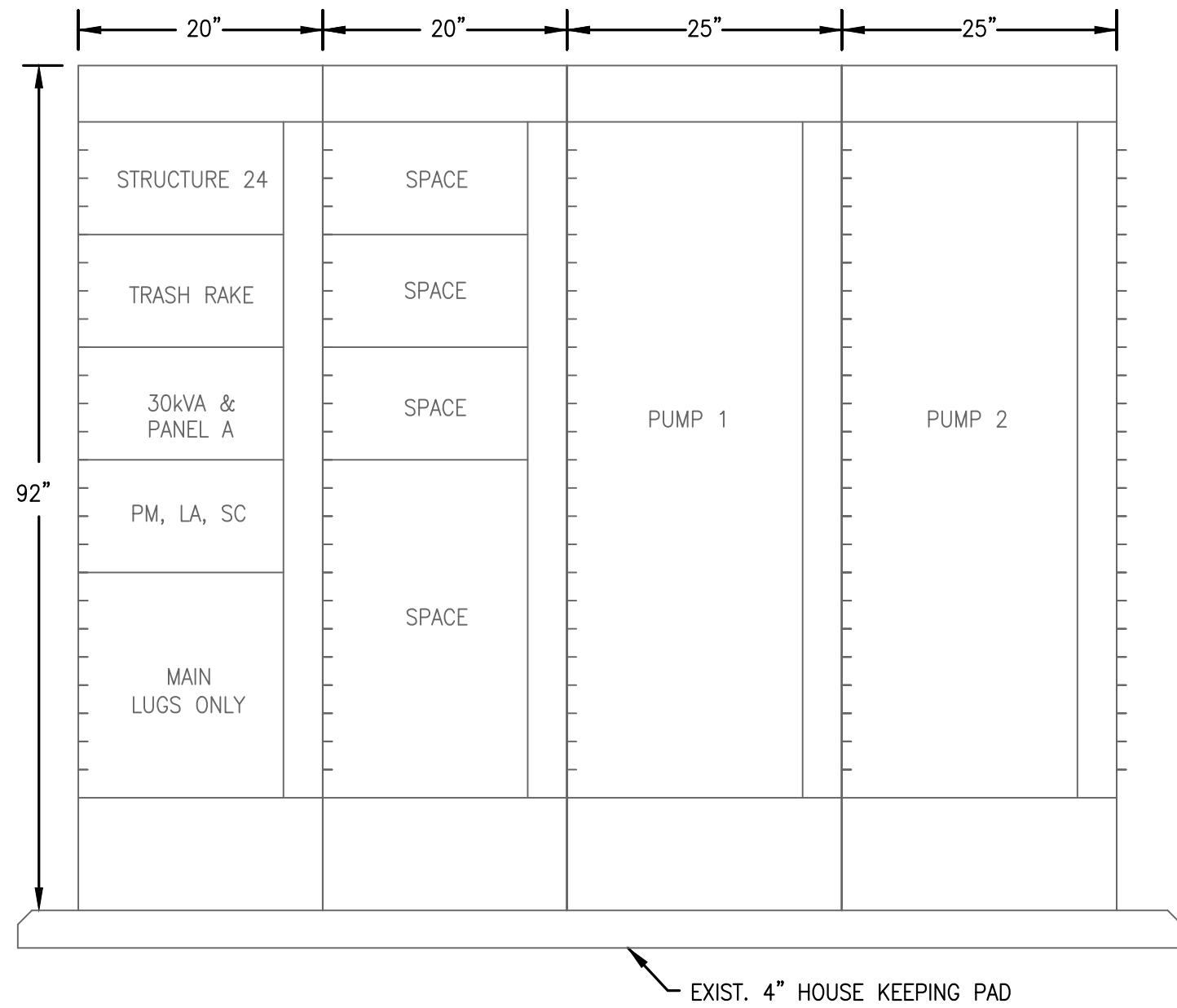
SPECIFIC NOTES

- 1 DETAILED ARC FLASH LABELS REQUIRED.
- 2 ALUMINUM J-BOX 24"x24"x30" MINIMUM, FRONT COVER (SAME J-BOX SHOWN).

LOAD CALCULATION

DESCRIPTION	AMPS
STORM WTR PUMP 1	169
STORM WTR PUMP 2	169
XFMR A	36
TRASH RAKE	7
25% OF LARGEST MOTOR	42.25
STRUCTURE 24	18
TOTAL	441.25

NO NEW 480V LOADS BEING ADDED,
MISCELLANEOUS INVERTER/CHARGING LOAD LESS THAN 3AMPS.



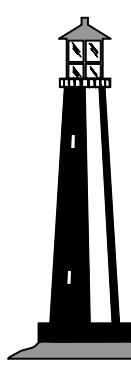
MCC A ELEVATION

NTS

Vertical Datum:
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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

**PUMP STATION NO. 9
ELECTRICAL INSTALL
ONELINE**

MAY 2026

P9-E4

CADD File: \\10.1.10.26\caw\dropbox\JOBS\68-mock-roos\25681's village of wellington phase 1 pump station improvements\DRAWINGS\IP9-E5 PLC MODIFICATION DETAILS P9-E5.dwg
PLOT DATE: May 04, 2026 - 11:44am

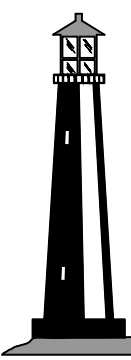
Bar is equal to one inch on original drawing

Adjust all scaled dimensions accordingly

Vertical Datum:
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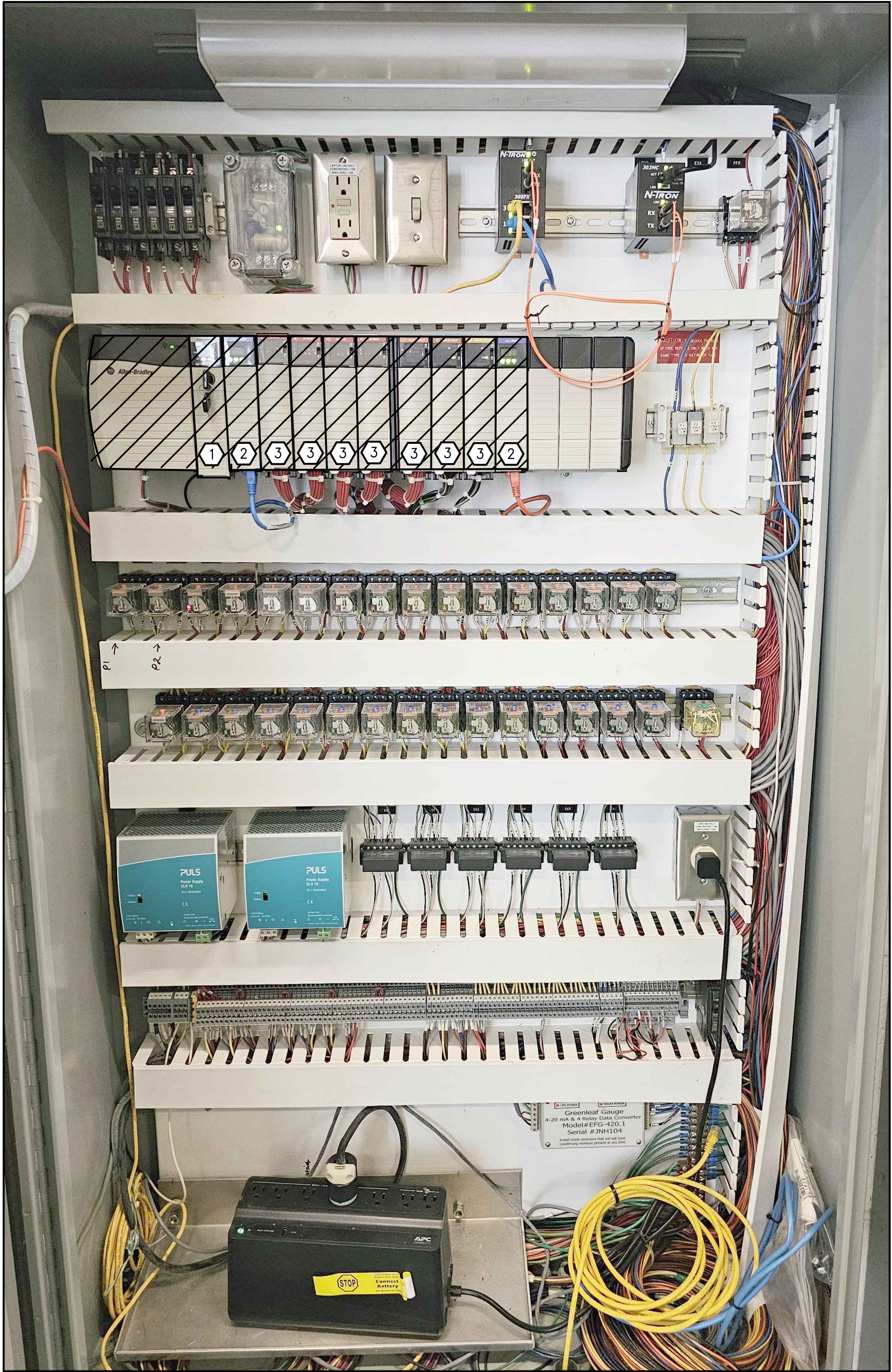
STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS

VILLAGE OF WELLINGTON

PUMP STATION NO. 9
PLC MODIFICATION
DETAILS

MAY 2026

P9-E5



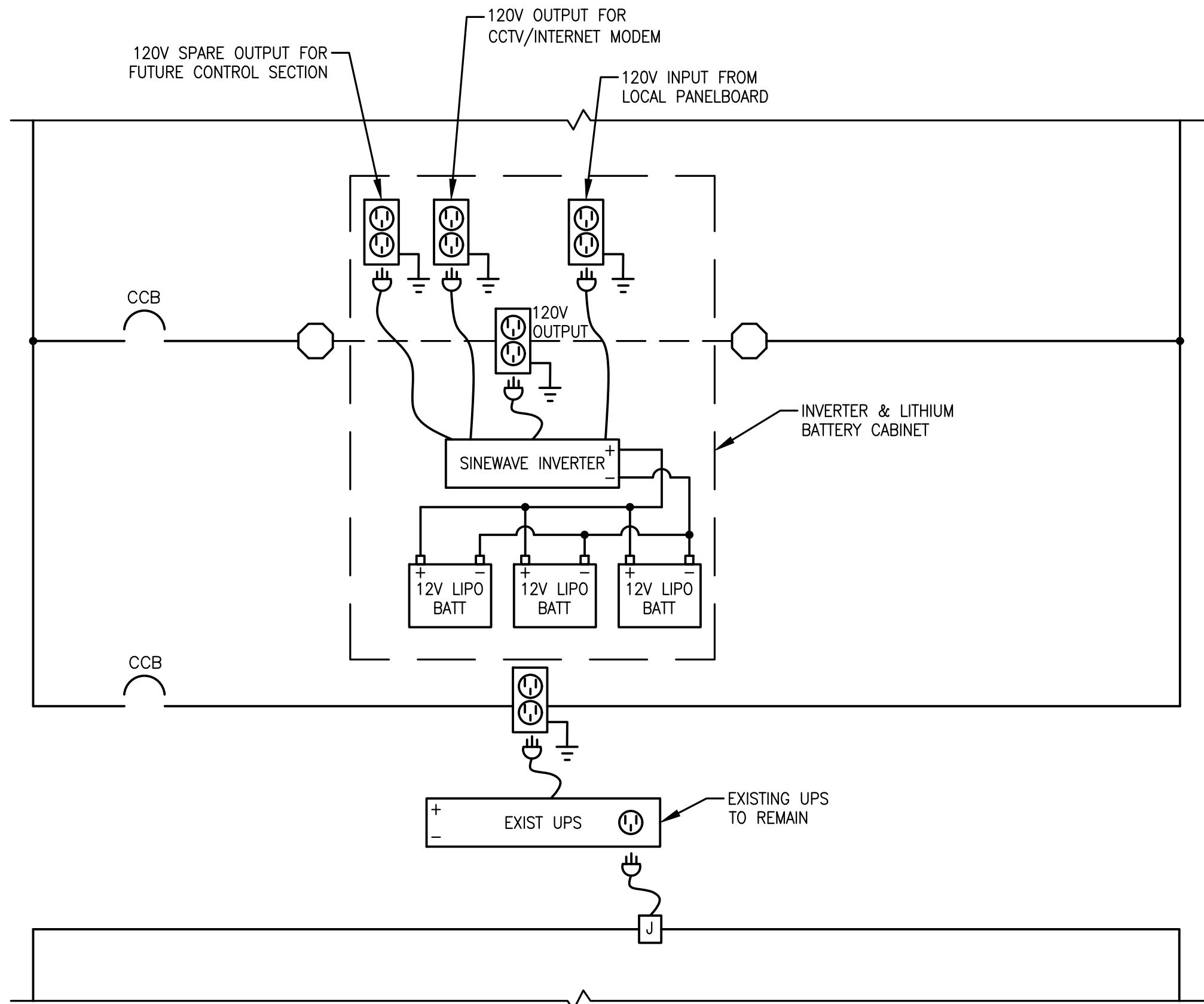
PUMP STATION NO. 9 PLC MODIFICATION DETAILS

GENERAL ELECTRICAL NOTES

1. CONTRACTOR SHALL DOWNLOAD THE PLC PROGRAM FROM THE EXISTING PLC.
2. CONTRACTOR SHALL COORDINATE WITH STAFF TO SHUT DOWN EXISTING PLC CONTROL PANEL POWER, AND ALLOW FOR POWER SUPPLIES TO DISCHARGE.
3. AFTER NEW CARDS AND MODULES ARE INSTALLED, POWER SUPPLIES AND CONTROL PANEL SHALL BE POWERED UP AND EQUIPMENT TESTED.
4. CONTRACTOR SHALL CONNECT TO CPU AND INSTALL PLC PROGRAM.
5. AFTER PROGRAM IS INSTALLED, PLC SHALL BE REBOOTED AND TESTED TO ENSURE THE PLC IS WORKING PROPERLY AND SCADA IS RECEIVING STATUS OF THE I/O CONNECTED TO THE PLC.

SPECIFIC ELECTRICAL NOTES

- 1 REPLACE EXIST. L61 CPU MODULE WITH NEW L81 CPU MODULE, INCLUDING NEW POWER MODULE.
- 2 REPLACE EXIST. COMM MODULE WITH NEW COMM MODULE.
- 3 REPLACE EXIST. DIGITAL AND ANALOG I/O CARDS WITH NEW DIGITAL AND ANALOG I/O CARDS. RE-LAND I/O TO SAME TERMINAL POSITIONS AS FORMER MODULES.



NOTE: ABOVE ARE PROPOSED MODIFICATIONS TO EXISTING PLC CONTROLS TO PROVIDE BACKUP POWER, OVER EXTENDED PERIODS OF NO RAIN AND NO UTILITY POWER, SEE SPECIFICATIONS.

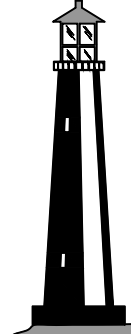
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PLOT DATE: May 04, 2026 - 11:44am

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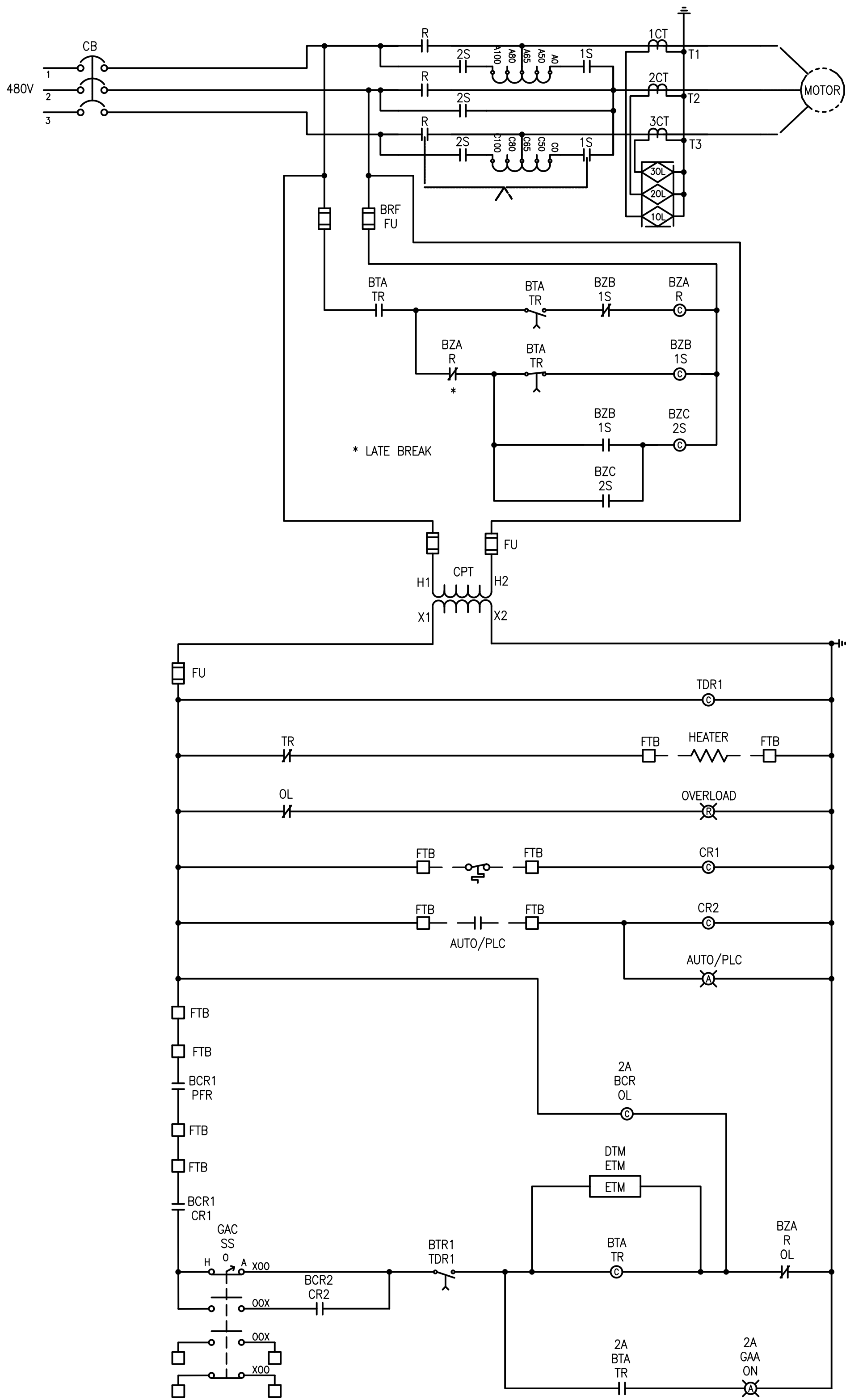
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STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS
VILLAGE OF WELLINGTON

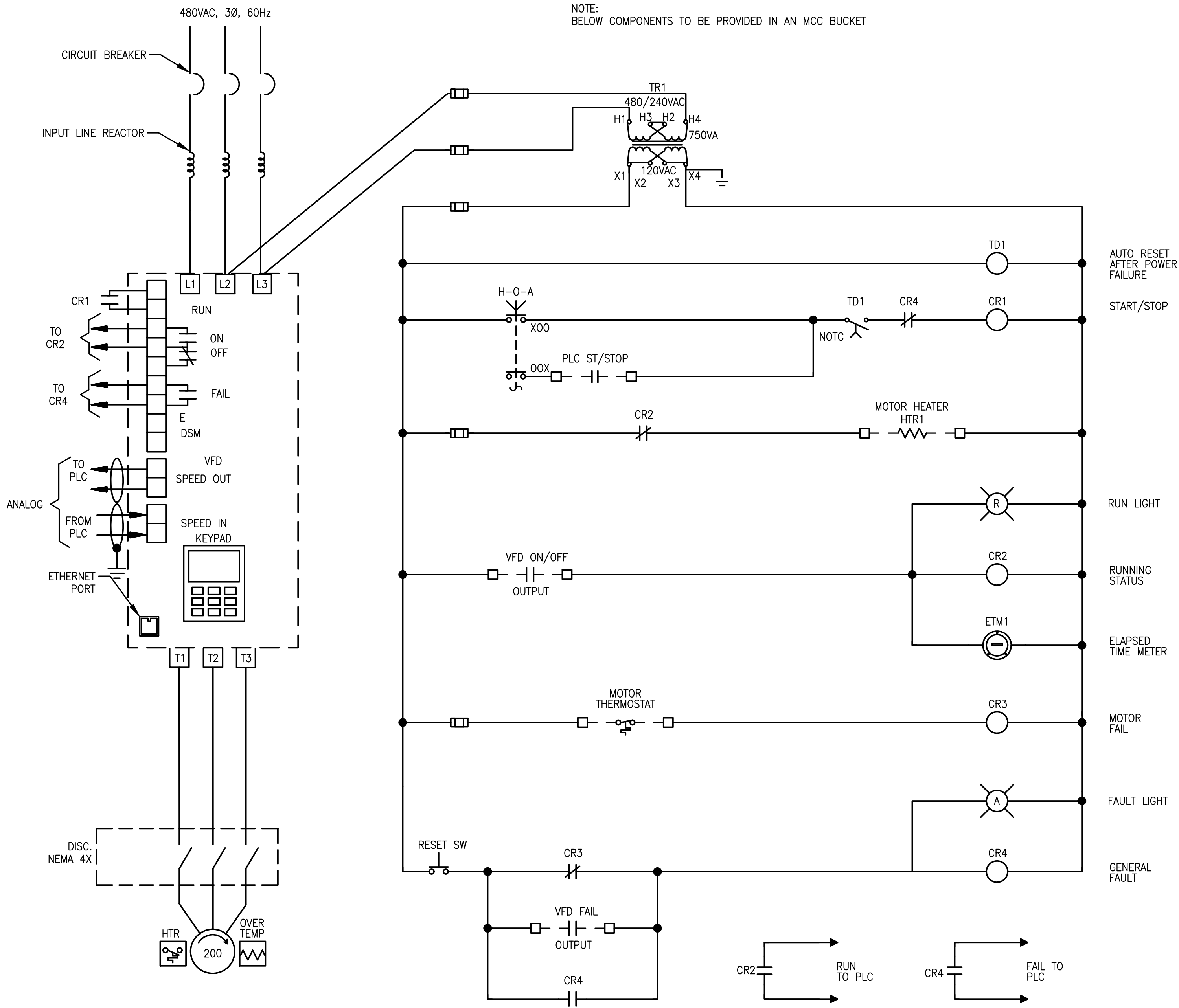
MCC VFD AND
IRRIGATION PUMP
SCHEMATICS

MAY 2026
E5-1



IRRIGATION PUMP MCC SCHEMATIC

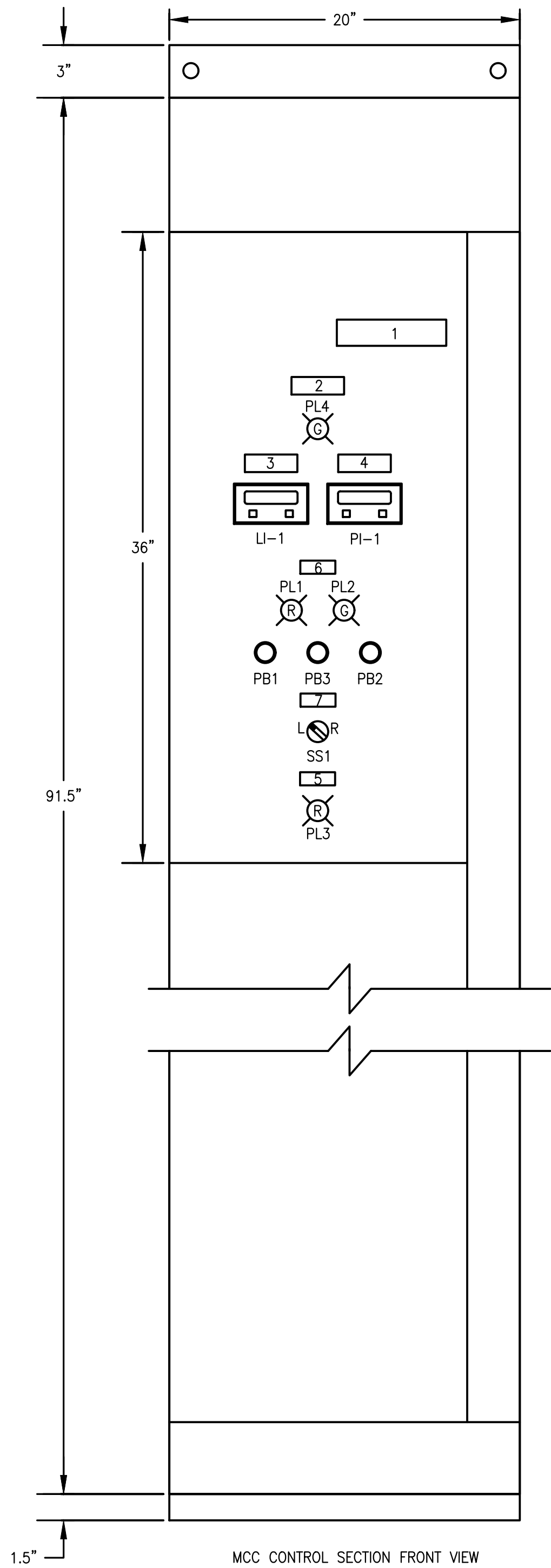
TYP. FOR PS-3 AND 4



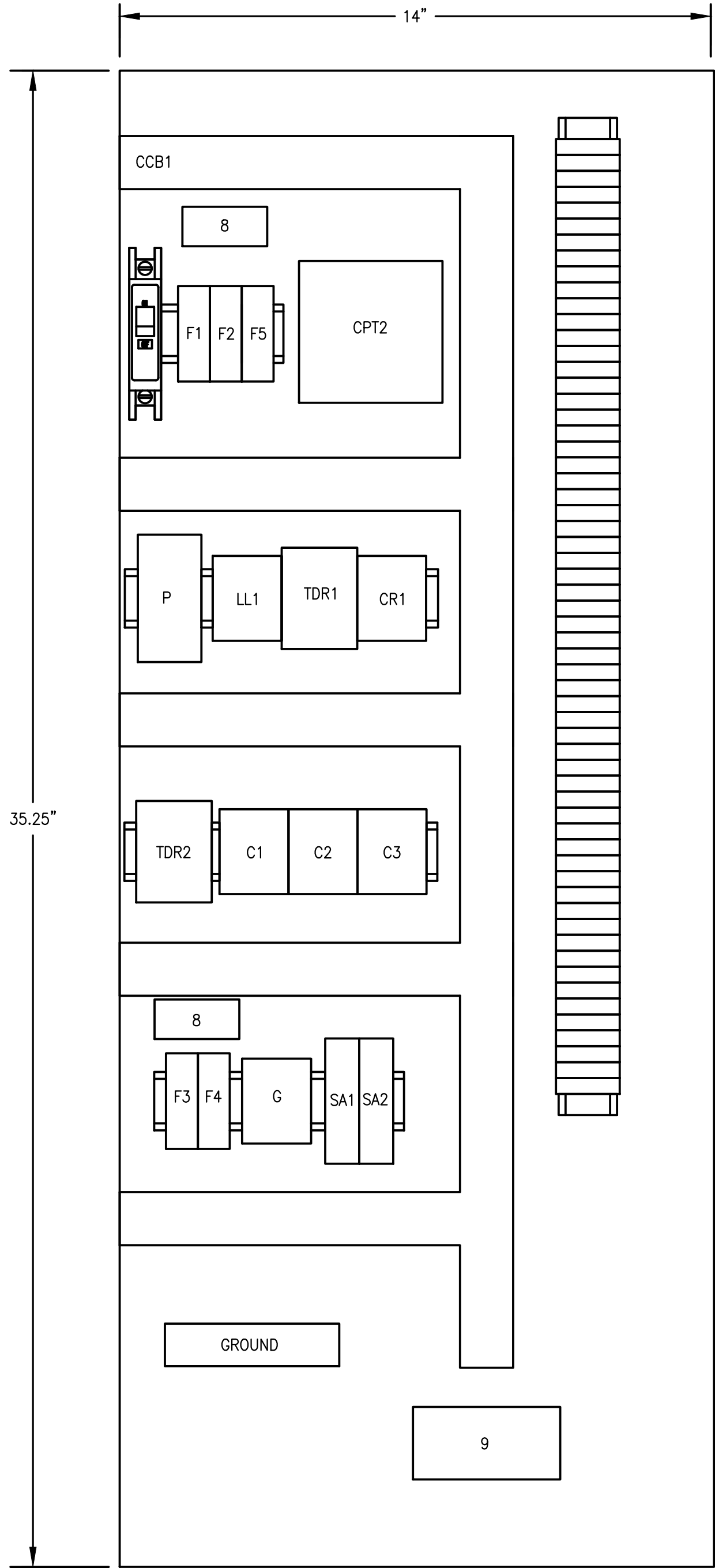
STORMWATER PUMP MCC VFD SCHEMATICS

TYP. FOR PS-3, 4, 6, 7, AND 8

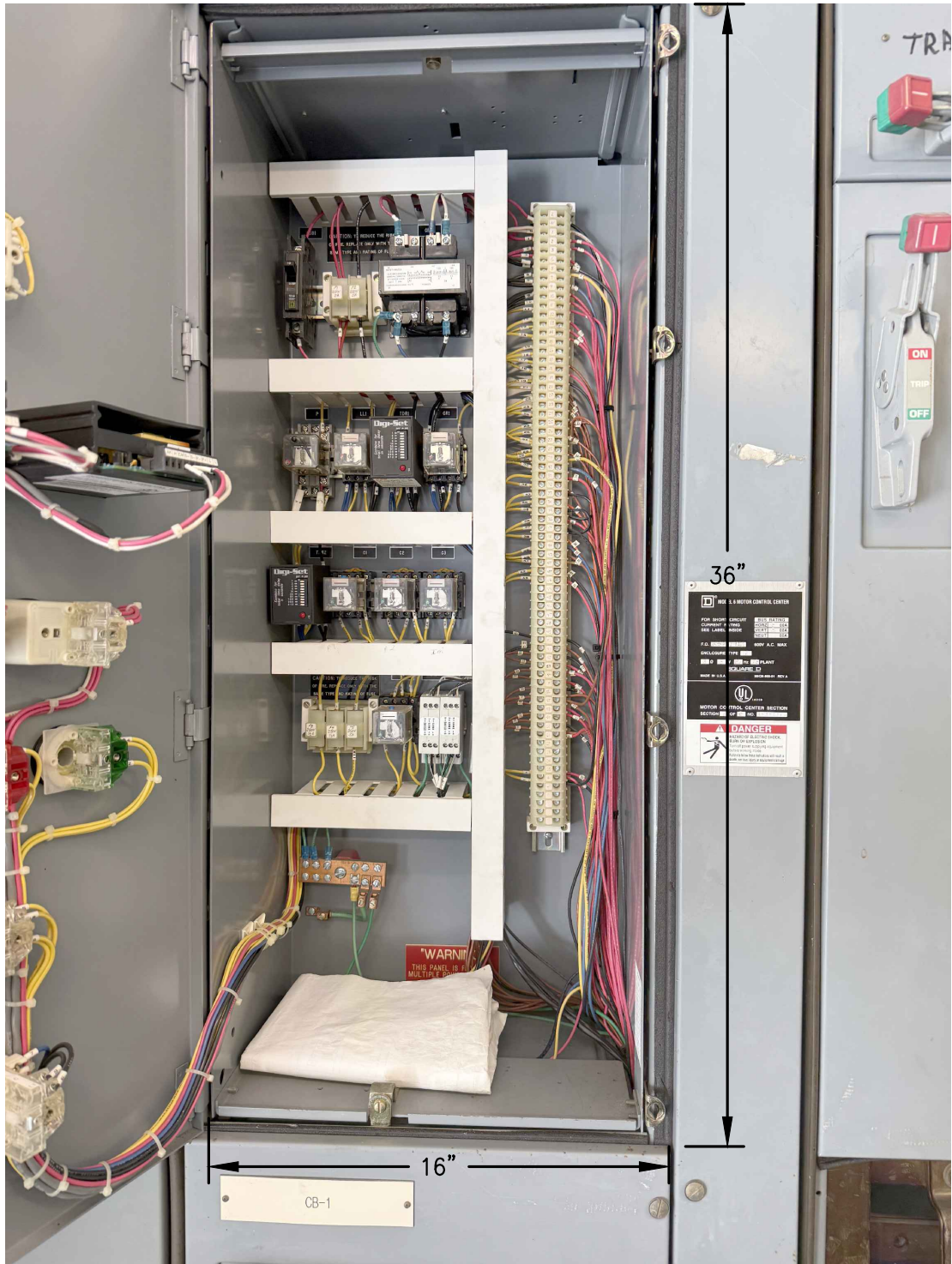
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PLOT DATE: May 04, 2026 - 11:44am



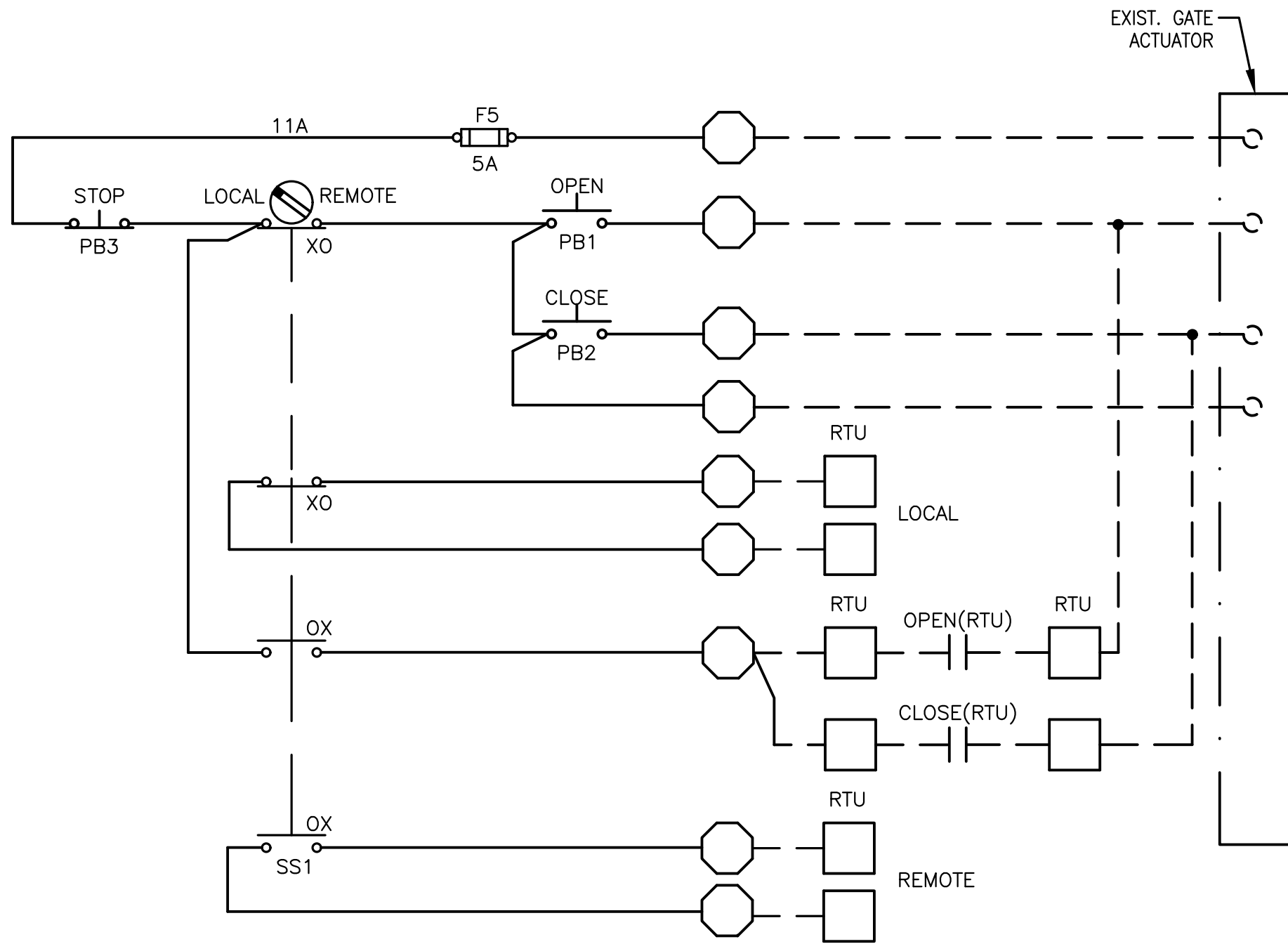
MCC CONTROL SECTION FRONT VIEW



SUBPANEL LAYOUT



NOTE:
PICTURES REPRESENT AN EXAMPLE OF THE MCC CONTROL SECTION BUCKET FOR THE I&C CONTRACTOR TO REPLICATE.



NOTE:
THIS CONTROL SCHEMATIC REPRESENT MINIMUM COMPONENTS FOR PUMP AND ACTUATOR RELAY CONTROLS I&C. CONTRACTOR SHALL PROVIDE ALL NECESSARY INTERNAL COMPONENTS AND PILOT DEVICES TO ALLOW FOR MCC STARTERS TO PROPERLY OPERATE WITH PUMP STATION INSTRUMENTS AND PLC CONTROL.

MCC CONTROL SECTION DETAILS, TYPICAL FOR PUMP STATION 3 & 4

NTS.

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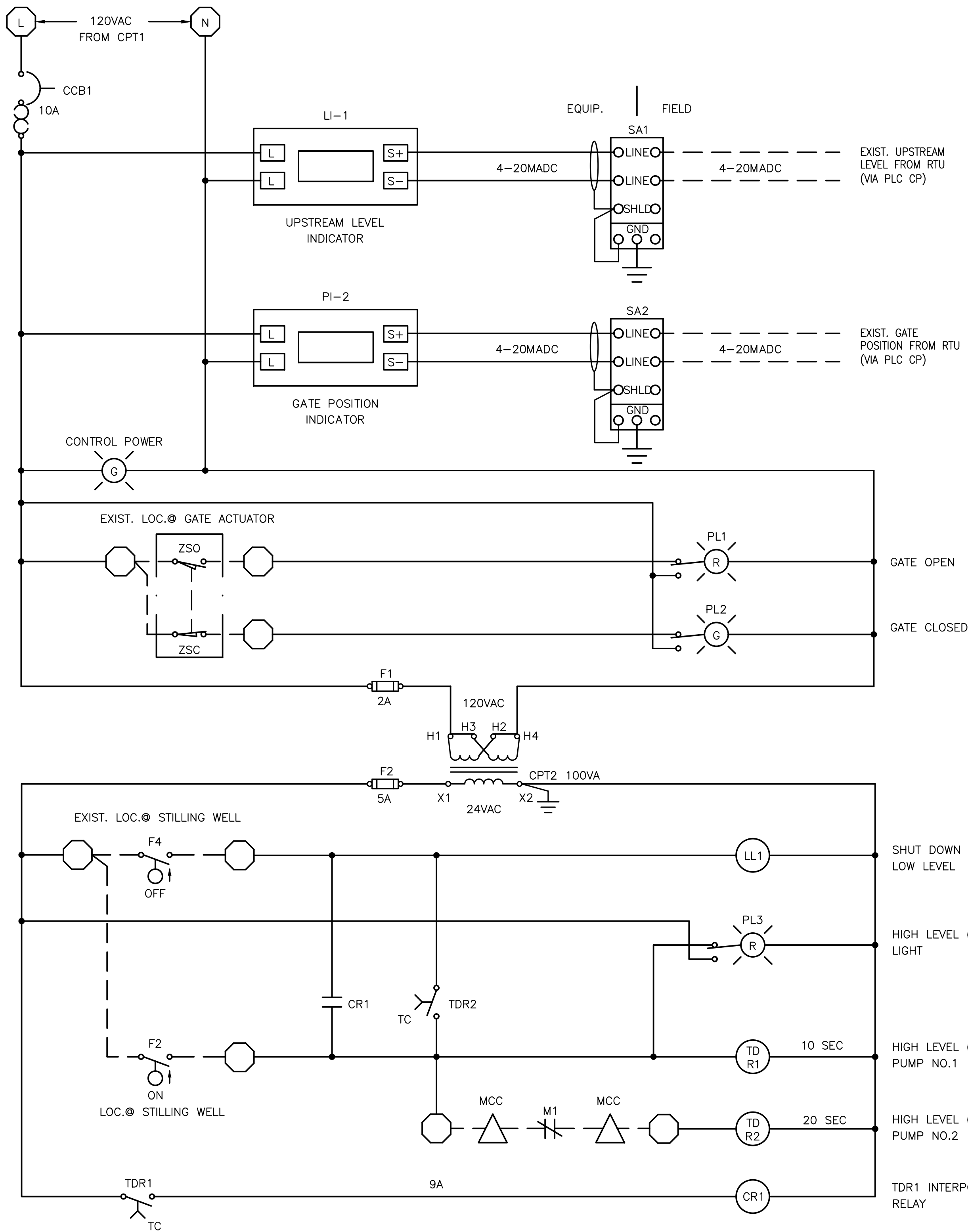
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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**
VILLAGE OF WELLINGTON

**MCC CONTROL
SECTION DETAILS**

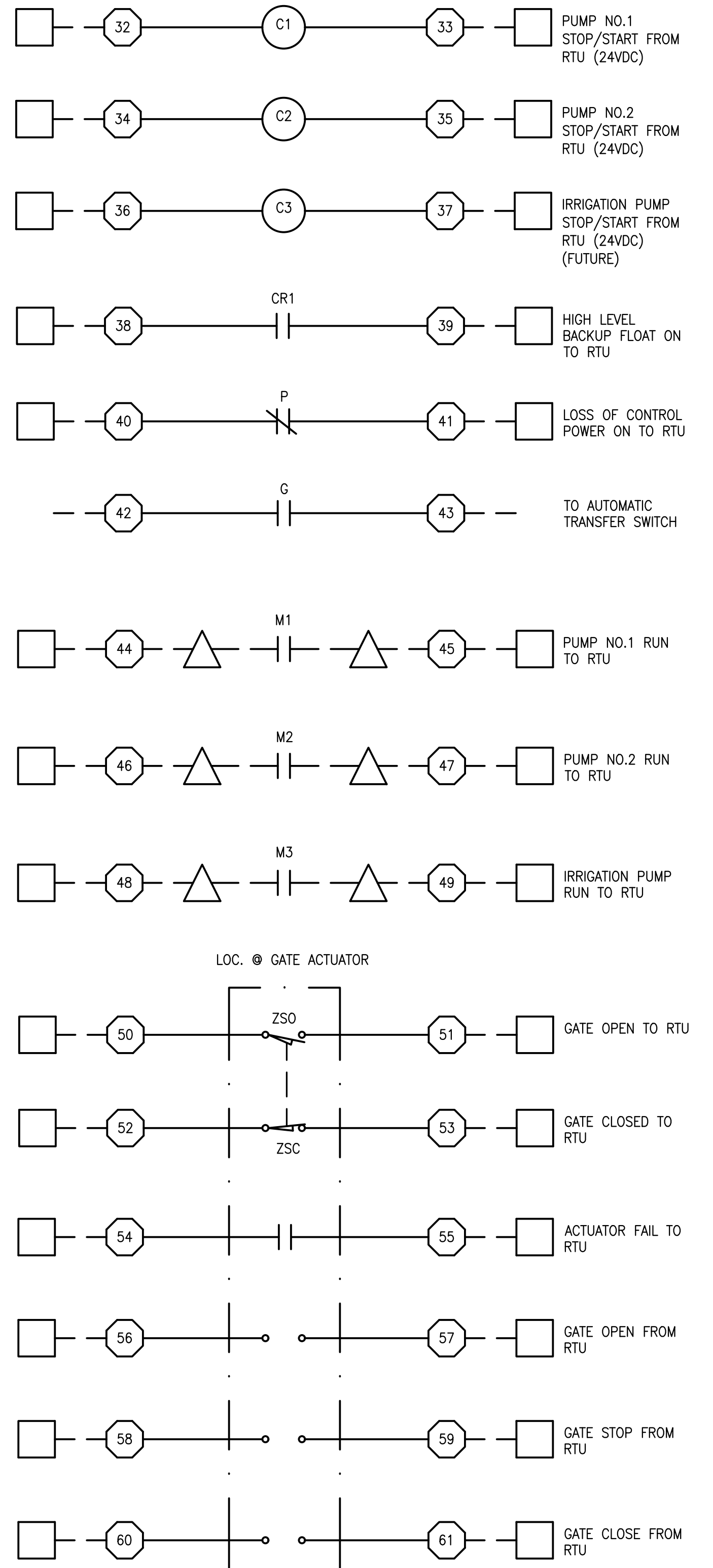
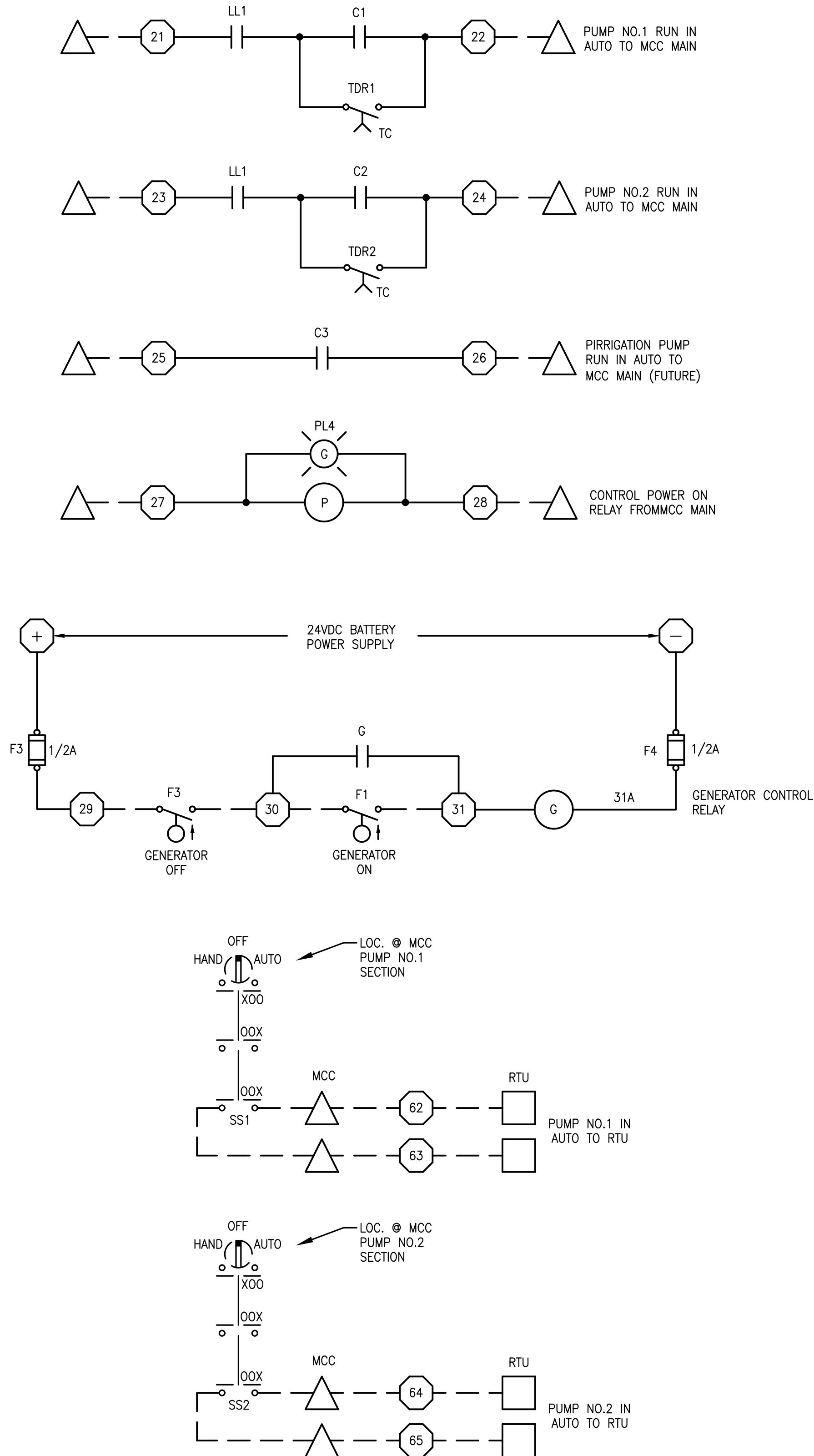
MAY 2026
E5-2

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PLOT DATE: May 04, 2026 - 11:44am



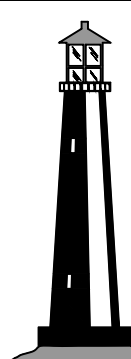
MCC CONTROL SECTION SCHEMATICS, TYPICAL FOR PUMP STATION 3 & 4

NTS.



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NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

**MCC CONTROL
SECTION
SCHEMATICS**

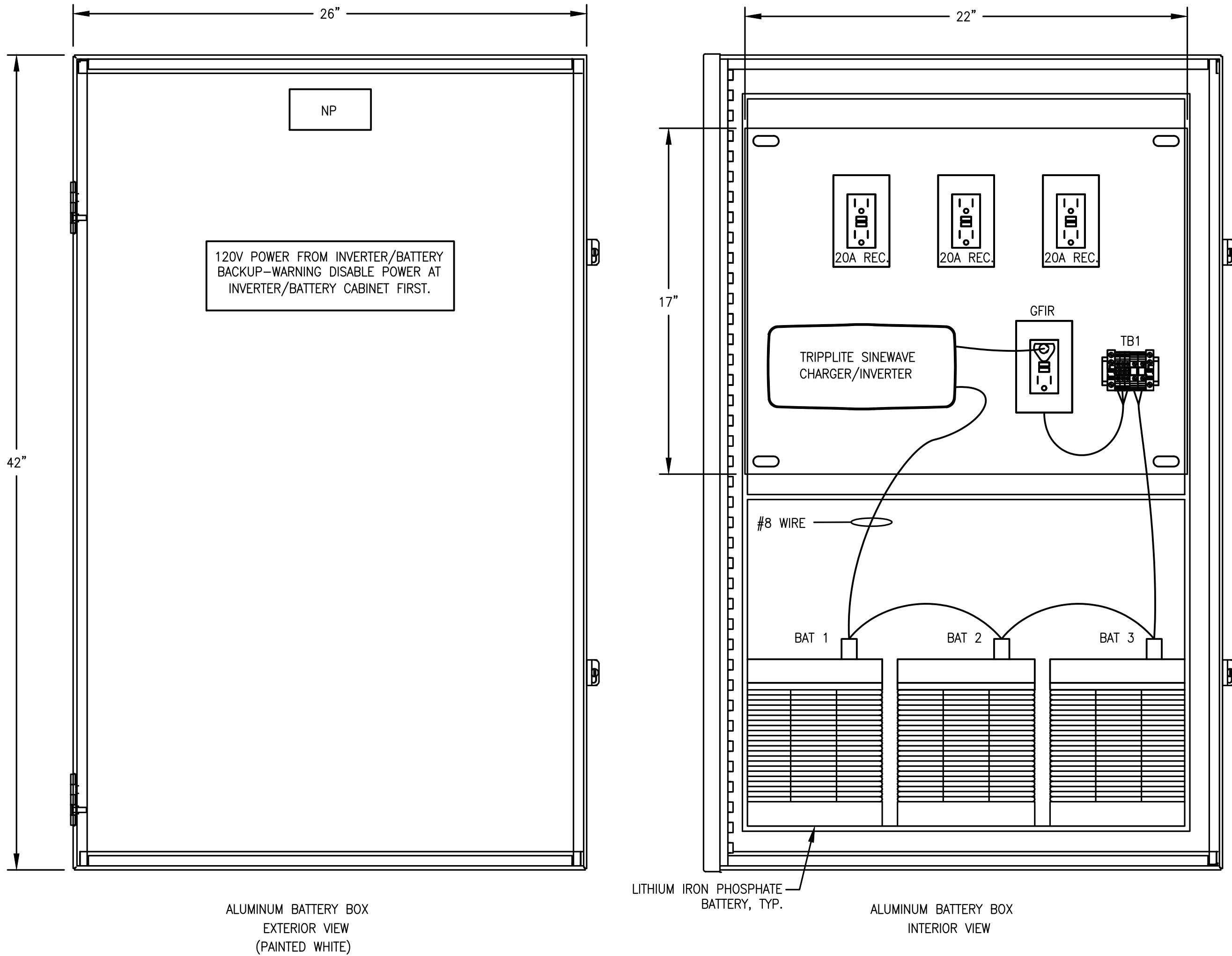
MAY 2026

E5-3

CADD File: \\10.1.10.26\c\w\dropbox\JOBS\68-mock-roos\256815 village of wellington phase 1 pump station improvements\DRAWINGS\E5-4 PUMP STATION CONTROL PANEL BATTERY ENCLOSURE DETAIL.dwg
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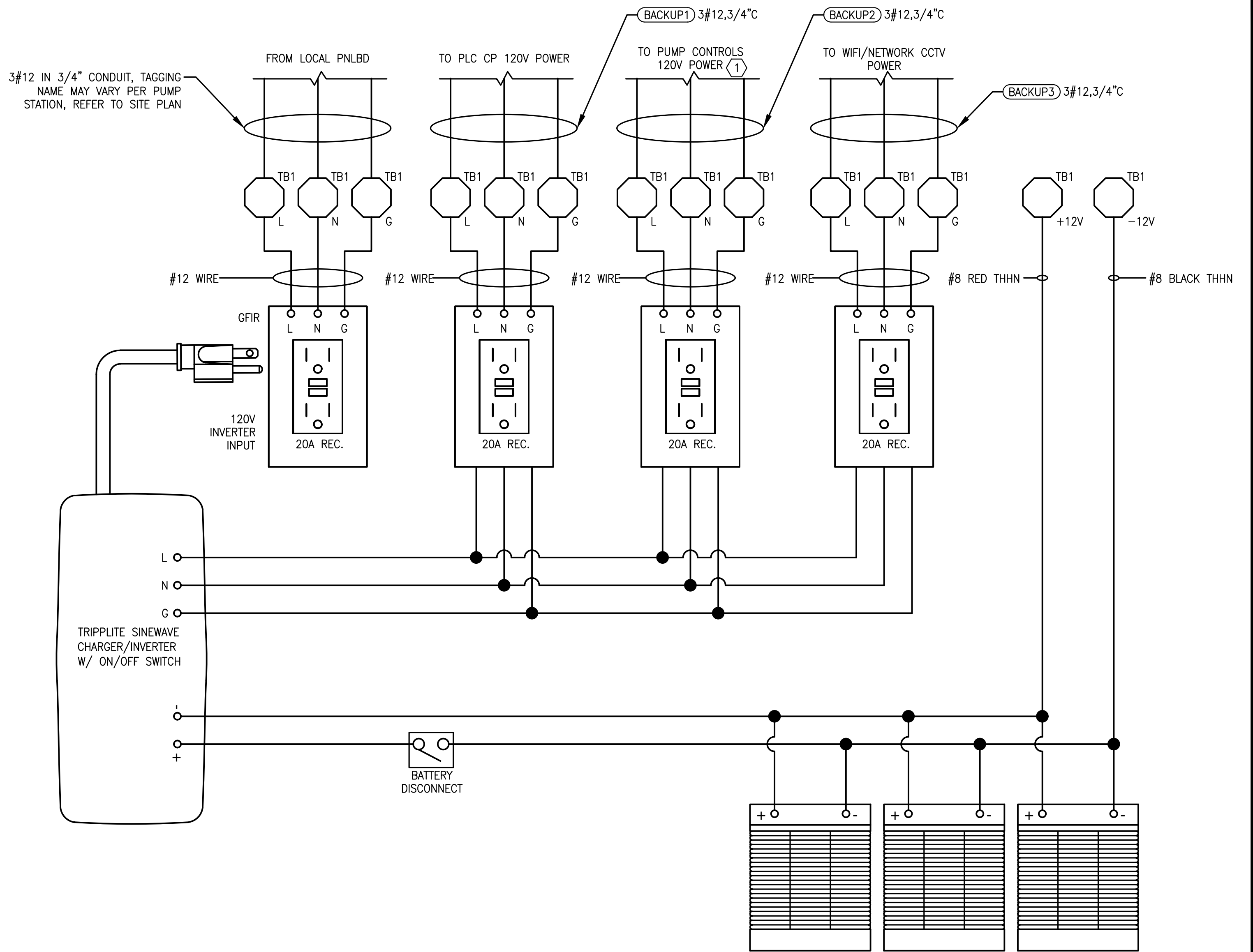
SPECIFIC ELECTRICAL NOTES

- ① PUMP CONTROLS FOR PUMP STATIONS 3, 4, AND 6 ARE LOCATED IN AN MCC SECTION.
PUMP CONTROLS FOR PUMP STATIONS 7 AND 8 ARE LOCATED IN A SEPARATE ENCLOSURE.
PUMP CONTROLS FOR PUMP STATION 9 ARE LOCATED IN THE PLC AND DO NOT REQUIRE SEPARATE POWER.



PUMP STATION BATTERY ENCLOSURE

NTS



BATTERY CHARGER WIRING DIAGRAM

NTS

Bar is equal to one inch on original drawing

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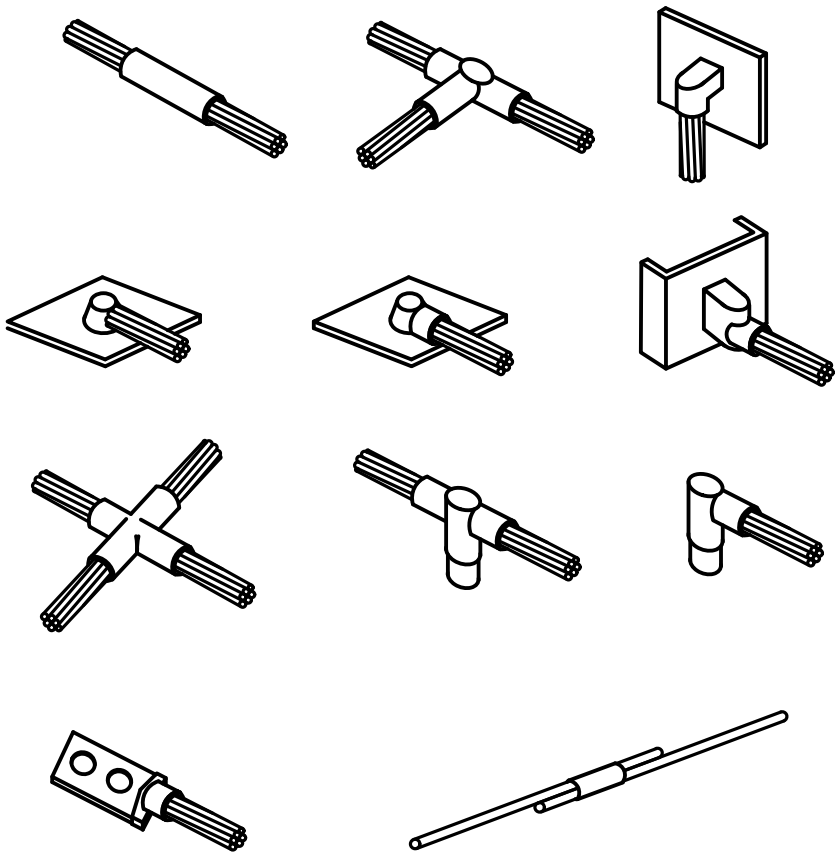
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STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS
VILLAGE OF WELLINGTON

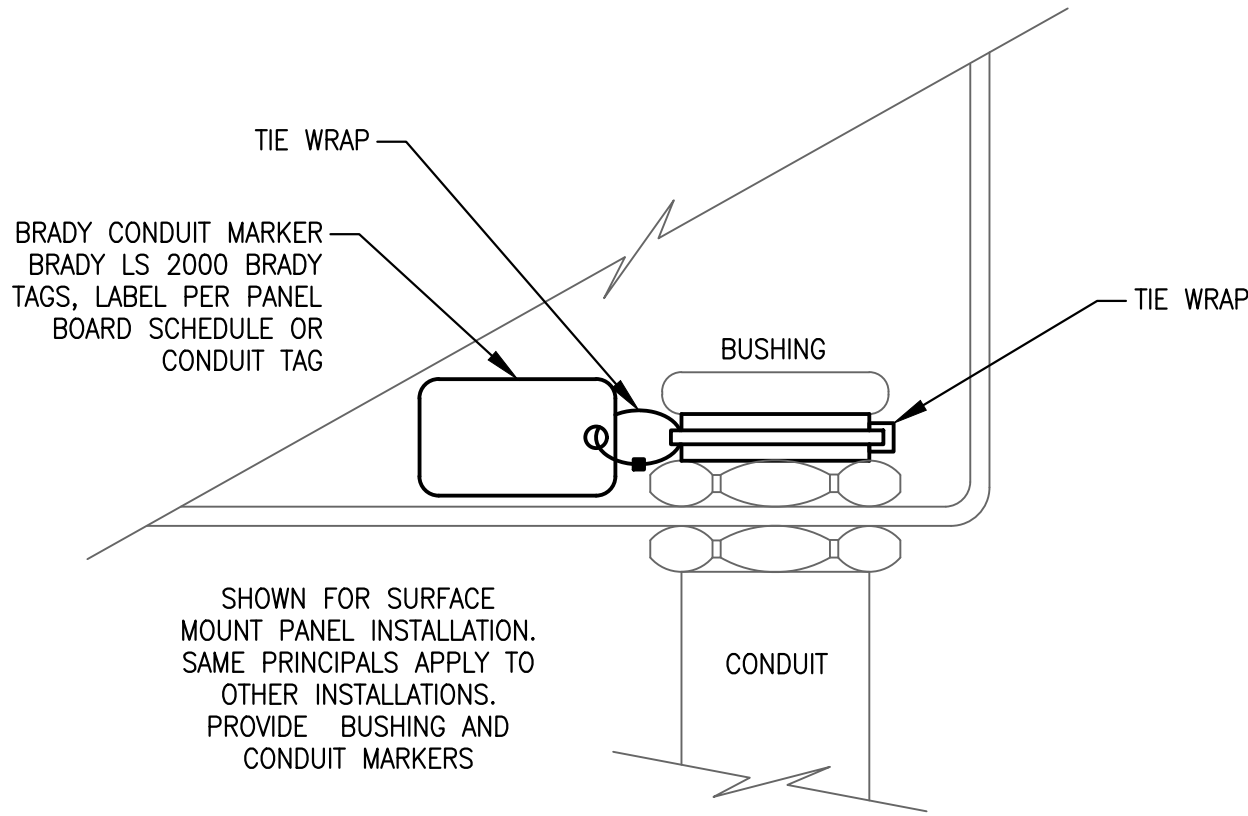
PUMP STATION
CONTROL PANEL
BATTERY
ENCLOSURE DETAIL

MAY 2026
E5-4



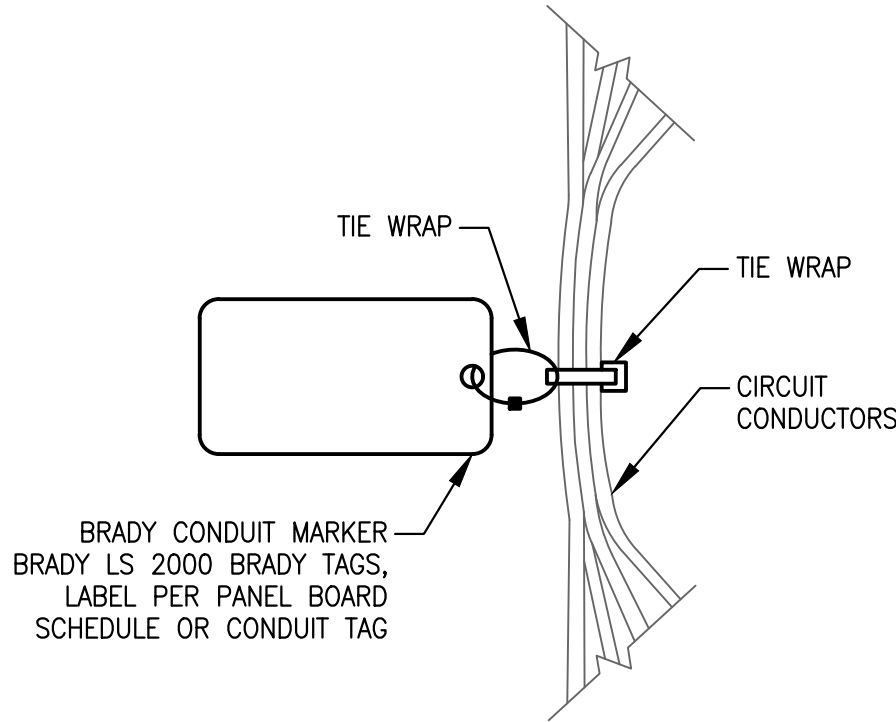
CADWELD DETAILS

NTS



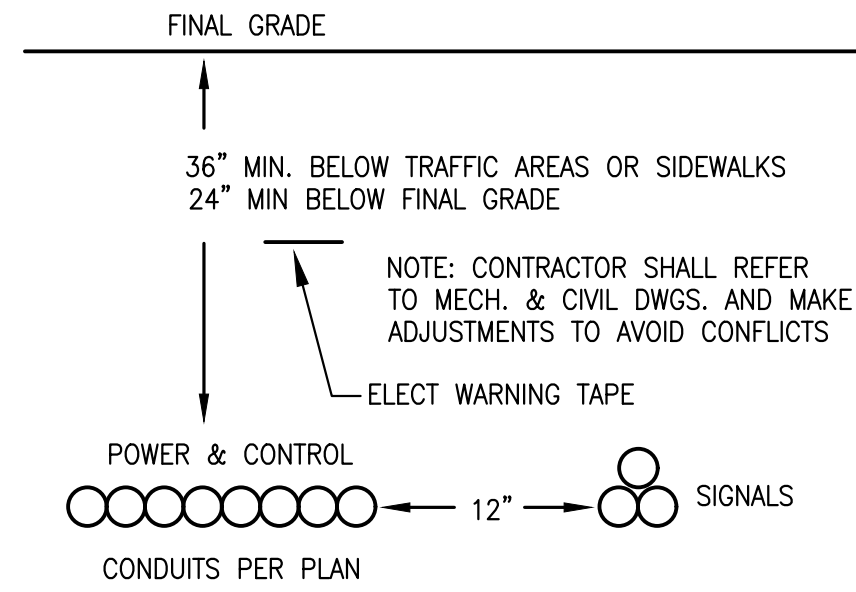
CONDUIT DETAIL

NTS



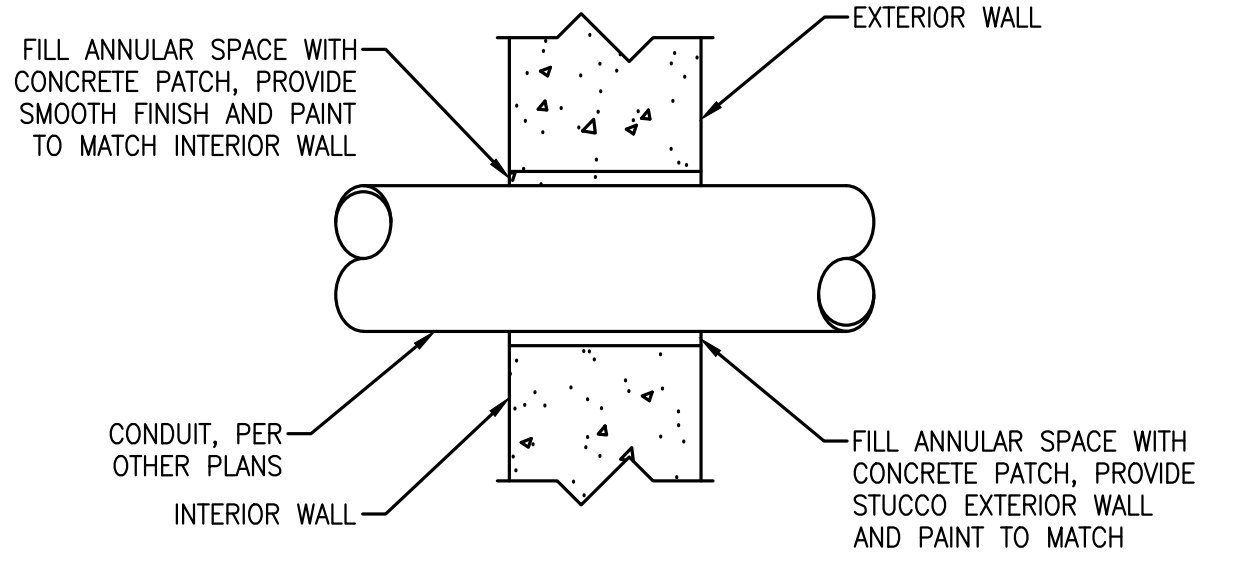
CIRCUIT MARKER

NTS



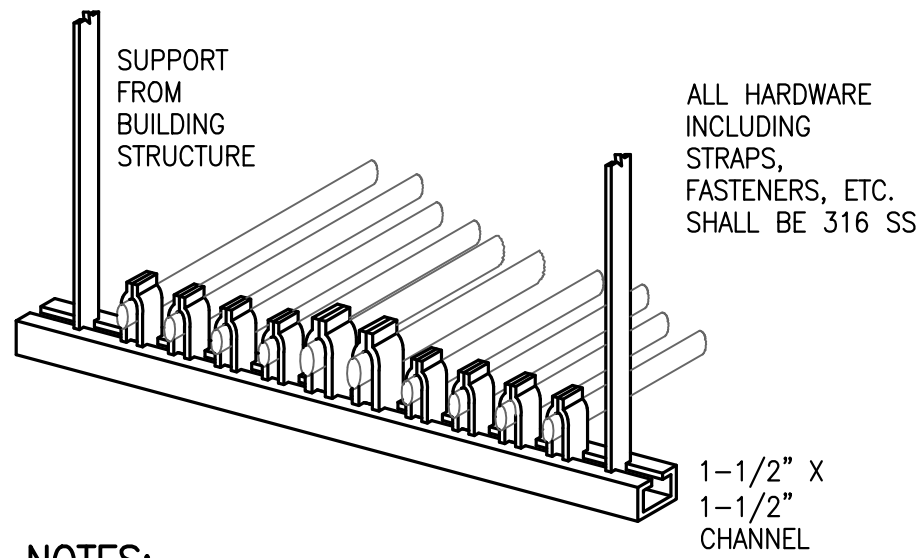
DIRECT BURIED CONDUIT

NTS, TYPICAL FOR DIRECT BURIED CONDUITS



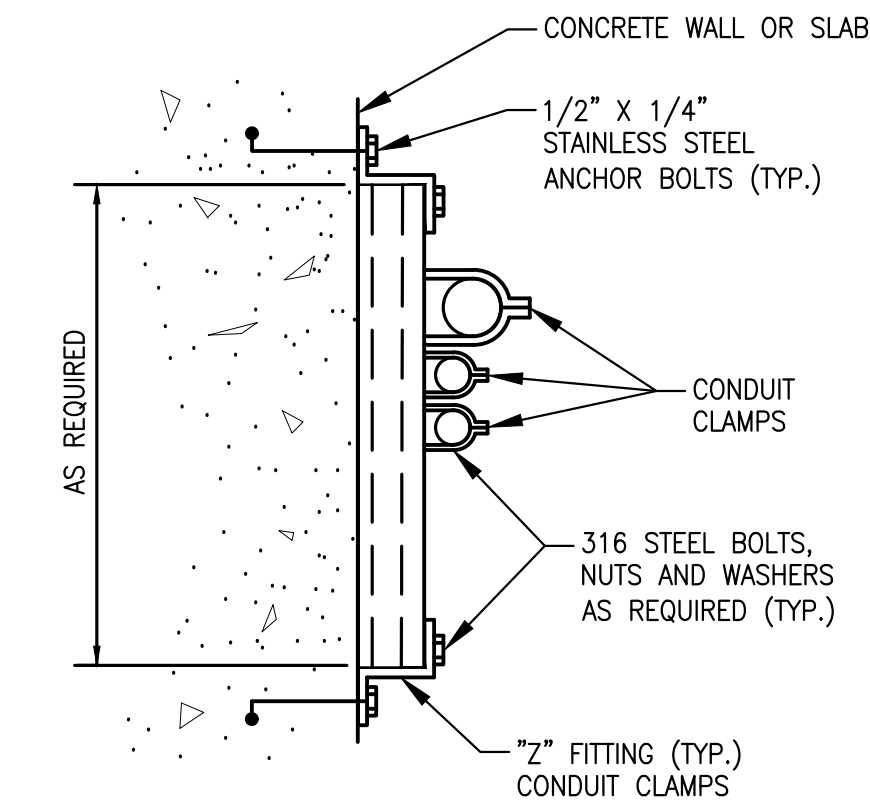
WALL CONDUIT PENETRATION DETAIL

NTS



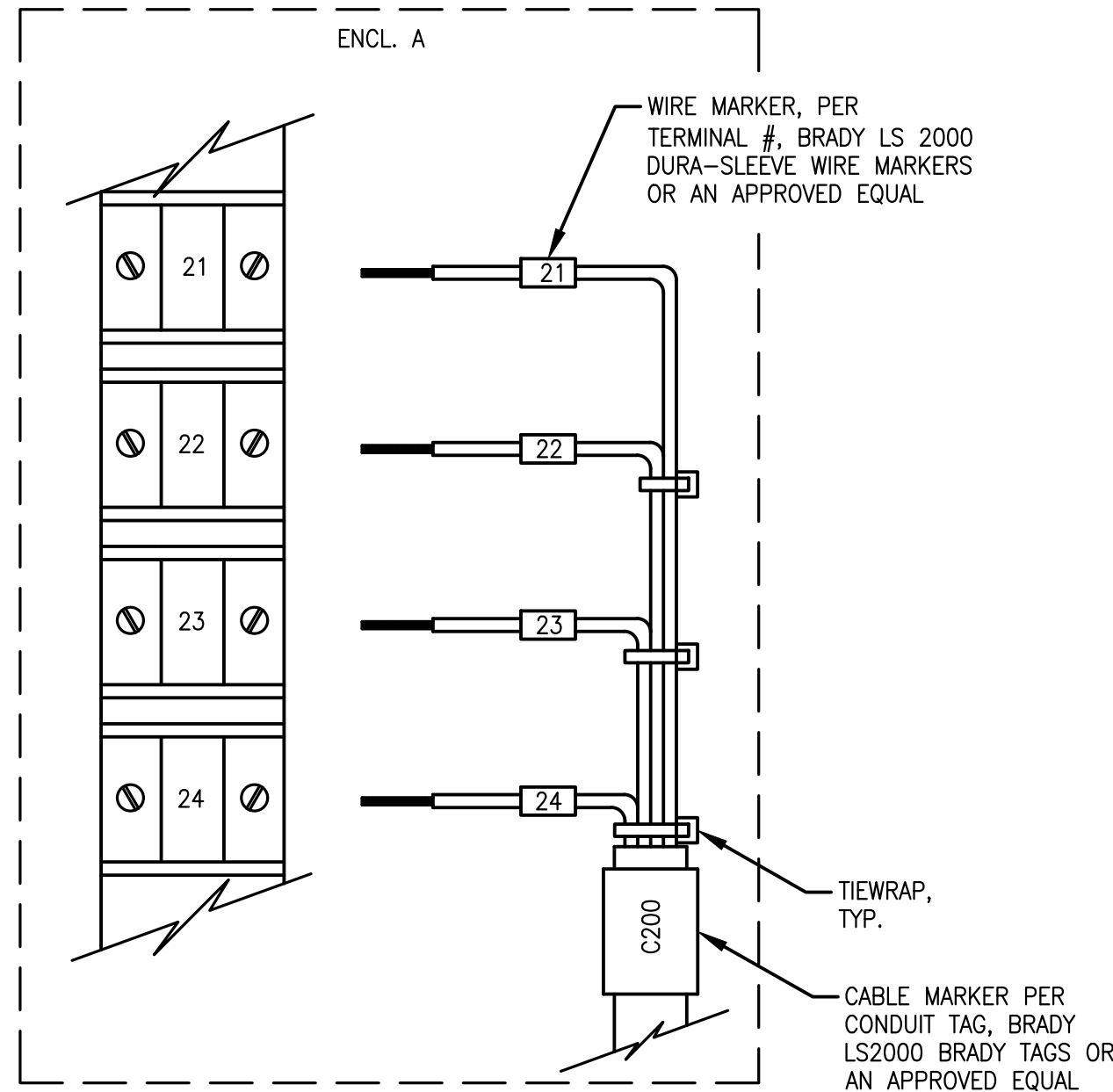
NOTES:

1. THIS DETAIL IS TYPICAL FOR BOTH VERTICAL AND HORIZONTAL MOUNTING.
2. CHANNEL AND ALL SUPPORT DEVICES TO BE FIELD COATED TO MATCH.
3. CHANNELS TO BE SPACES 5' MAXIMUM.
4. ALL MATERIALS SHALL BE 316 SS.



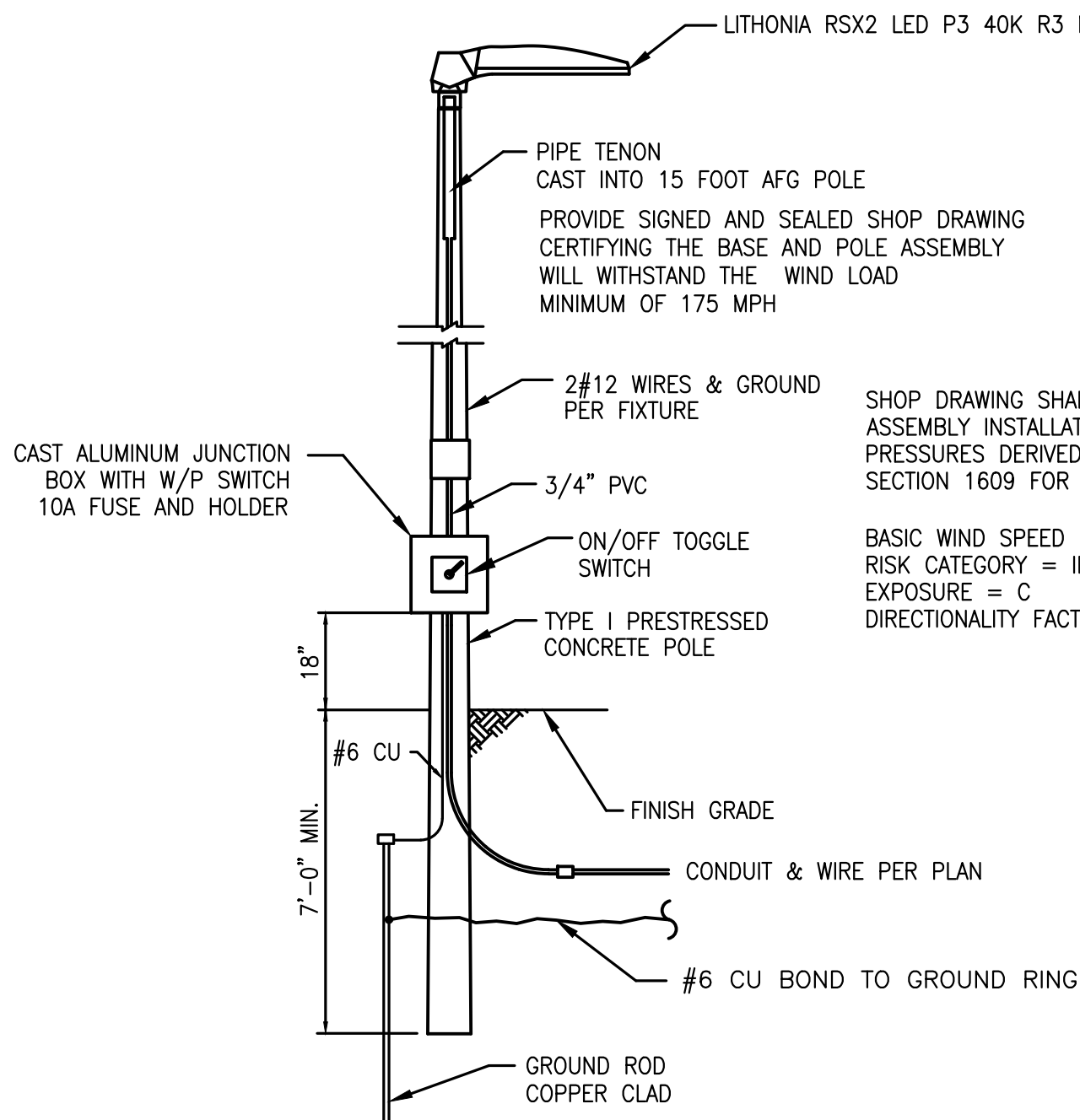
CONDUIT INSTALLATION DETAIL

NTS



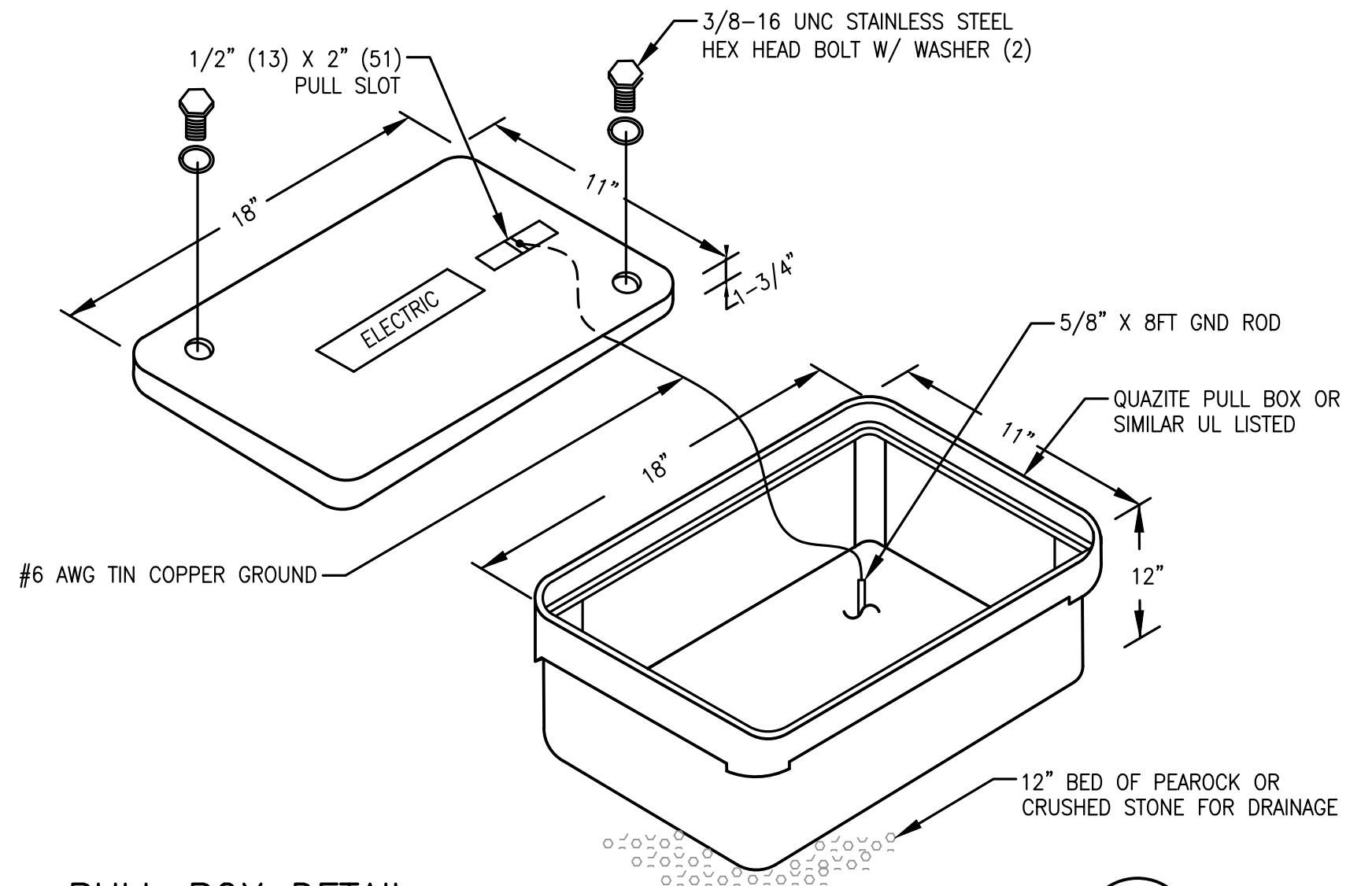
TERMINATION INSTALLATION

NTS



POLE LIGHT DETAIL

NTS



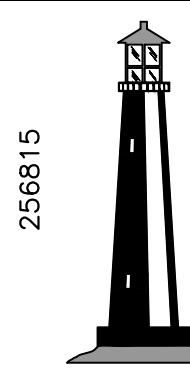
PULL BOX DETAIL

NTS

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PLOT DATE: May 04, 2026 - 11:44am

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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C&W engineering
ELECTRICAL CONSULTANTS
6903 VISTA PARKWAY NORTH, SUITE 10
WEST PALM BEACH, FL. 33411
(561) 642-5333
REGISTRATION NUMBERS
C & W ENGINEERING INC. CA# 33315
MICHAEL A. GUIDA, P.E. 60755

SEAL
MICHAEL A. GUIDA
Florida P.E. No. 60755

Date

MOCK•ROOS
CONSULTING ENGINEERS

5720 Corporate Way, West Palm Beach, Florida 33407
(561) 683-3113, www.MockRoos.com

Florida Reg. No. 48

Florida L.B. No. 48

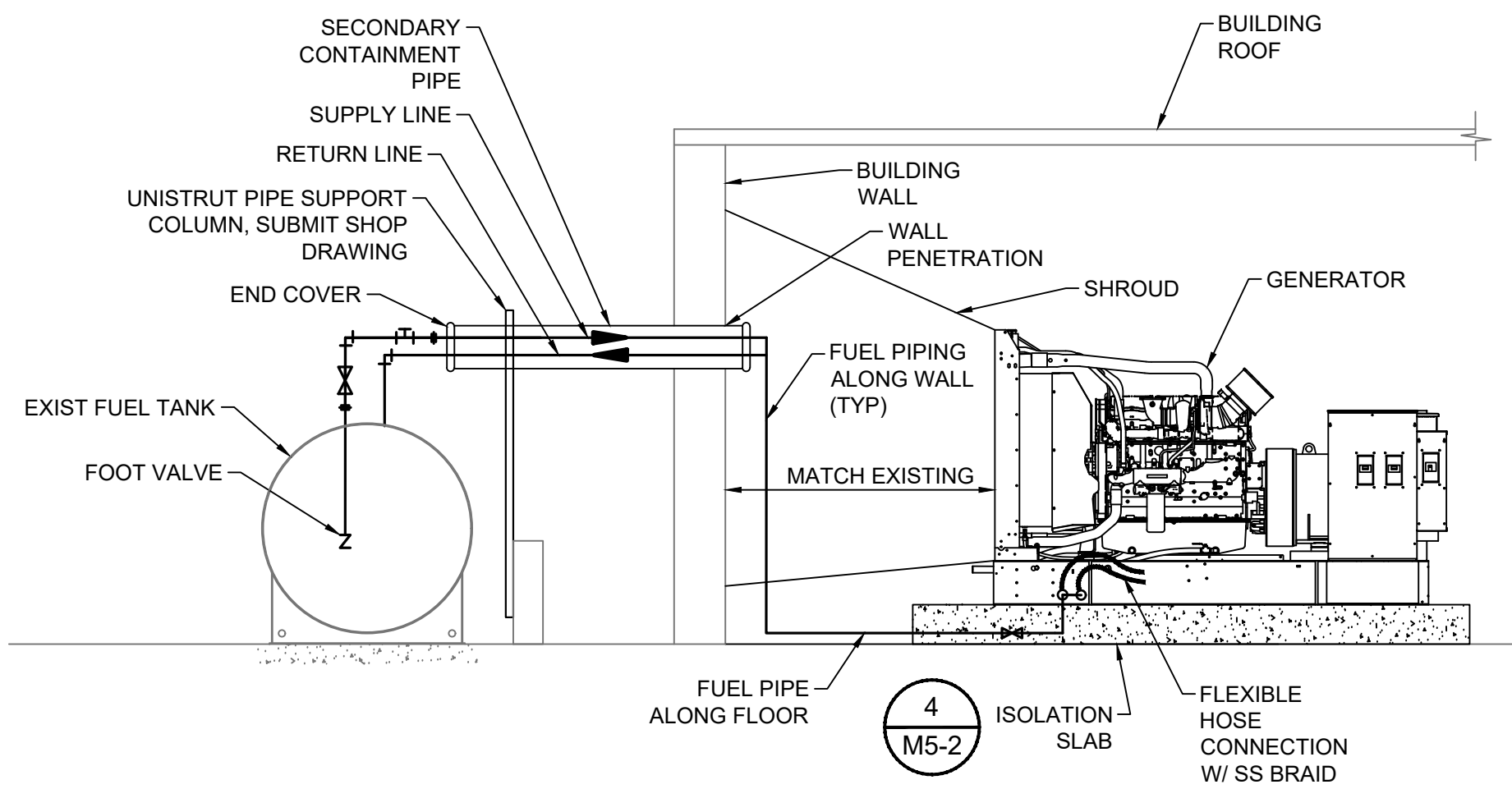
**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

VILLAGE OF WELLINGTON

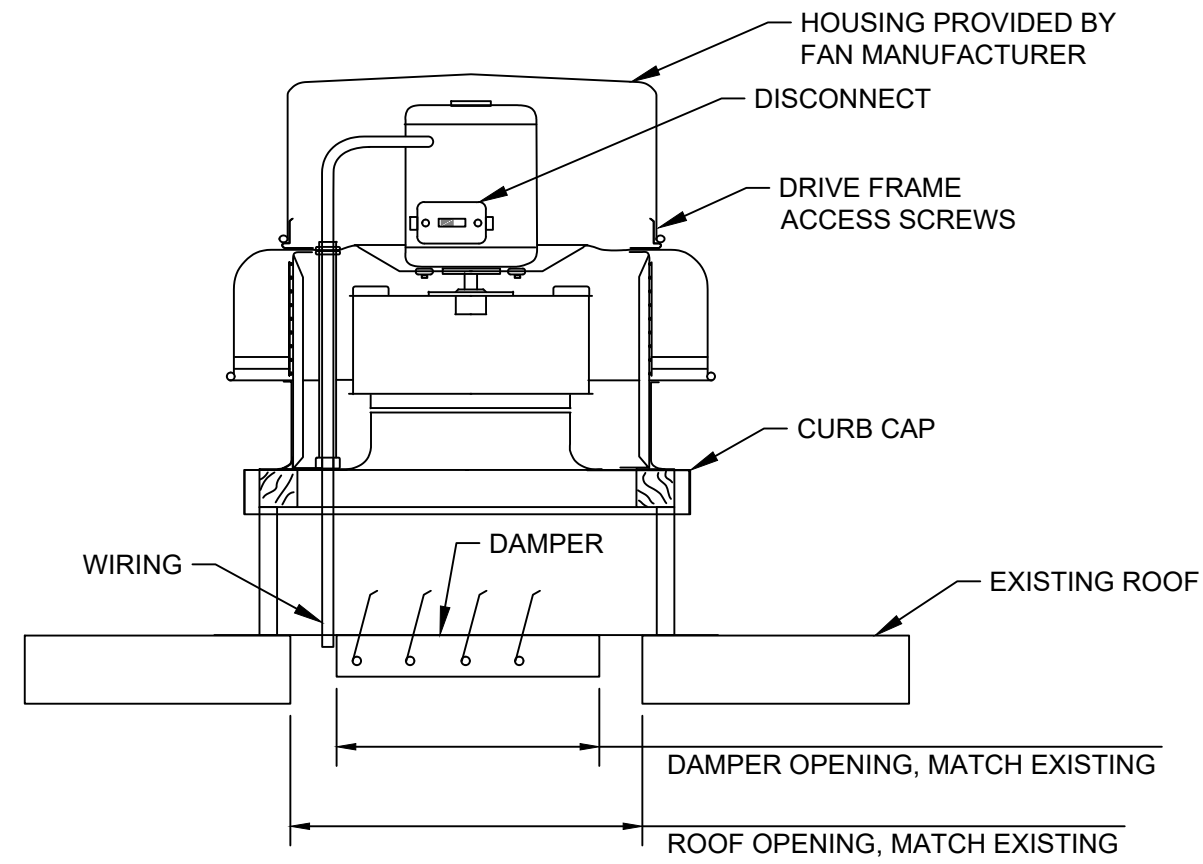
ELECTRICAL DETAILS

MAY 2026

E5-5

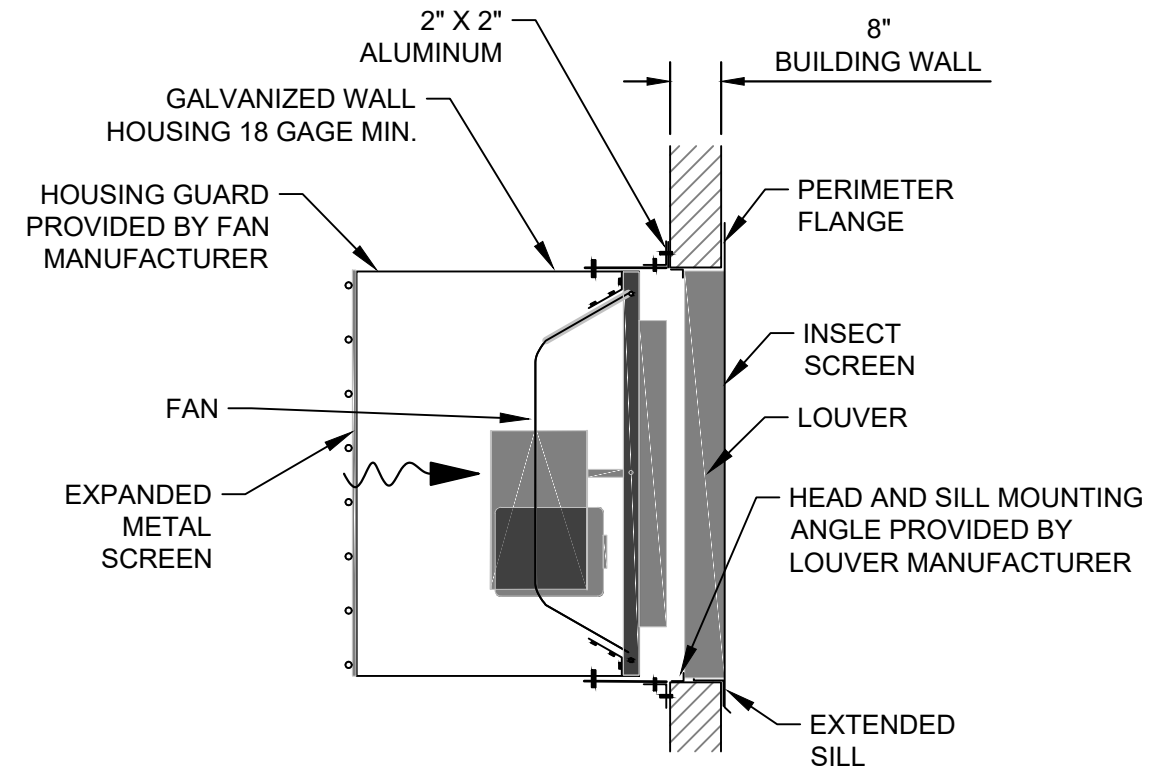


1 FUEL SYSTEM SECTION
M5-1 NTS



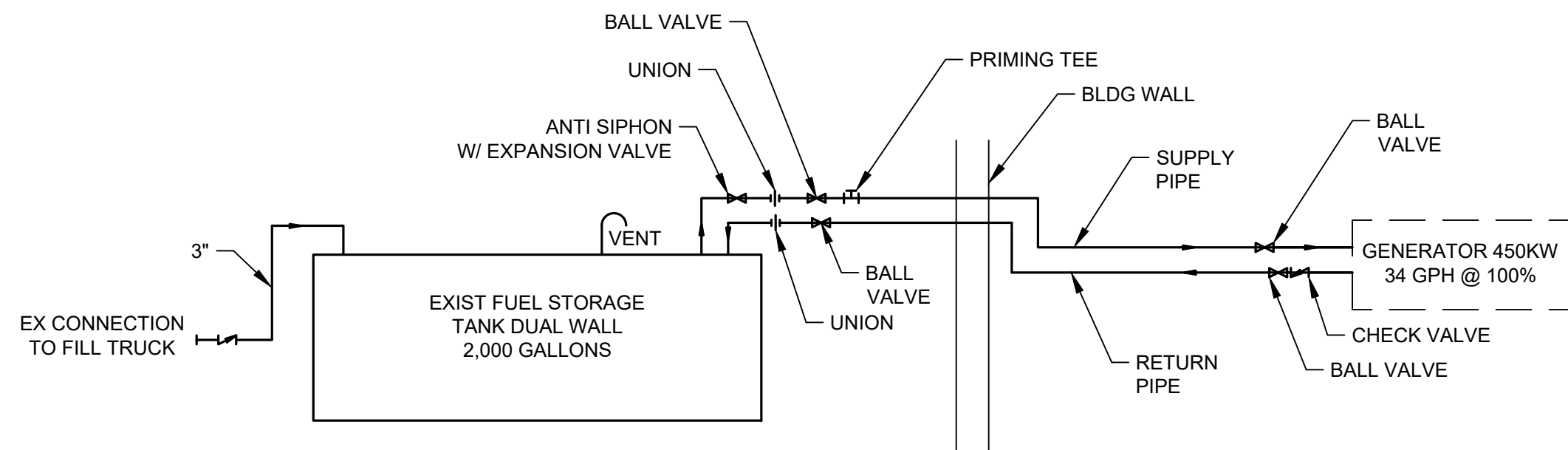
- NOTES:
1. SEE MECHANICAL SITE PLANS FOR FAN MODEL. (SHEETS P3-C4, P4-C4)
 2. PROVIDE FAN SUPPORT BRACKETS AS REQUIRED BY MANUFACTURER.
 3. THE ROOF CURB SHOULD BE 1.5" LESS THAN THE CURB CAP TO ALLOW FOR ROOFING AND FLASHING.
 4. CONTRACTOR TO COORDINATE WITH ROOFING CONSULTANT FOR GUIDANCE AND TO INSPECT THE FAN INSTALLATIONS.
 5. CONTRACTOR TO REFER TO MANUFACTURER FOR INSTALLATION AND DIMENSION CONFIRMATION

2 CEILING MOUNTED FAN DETAIL
M5-1 NTS



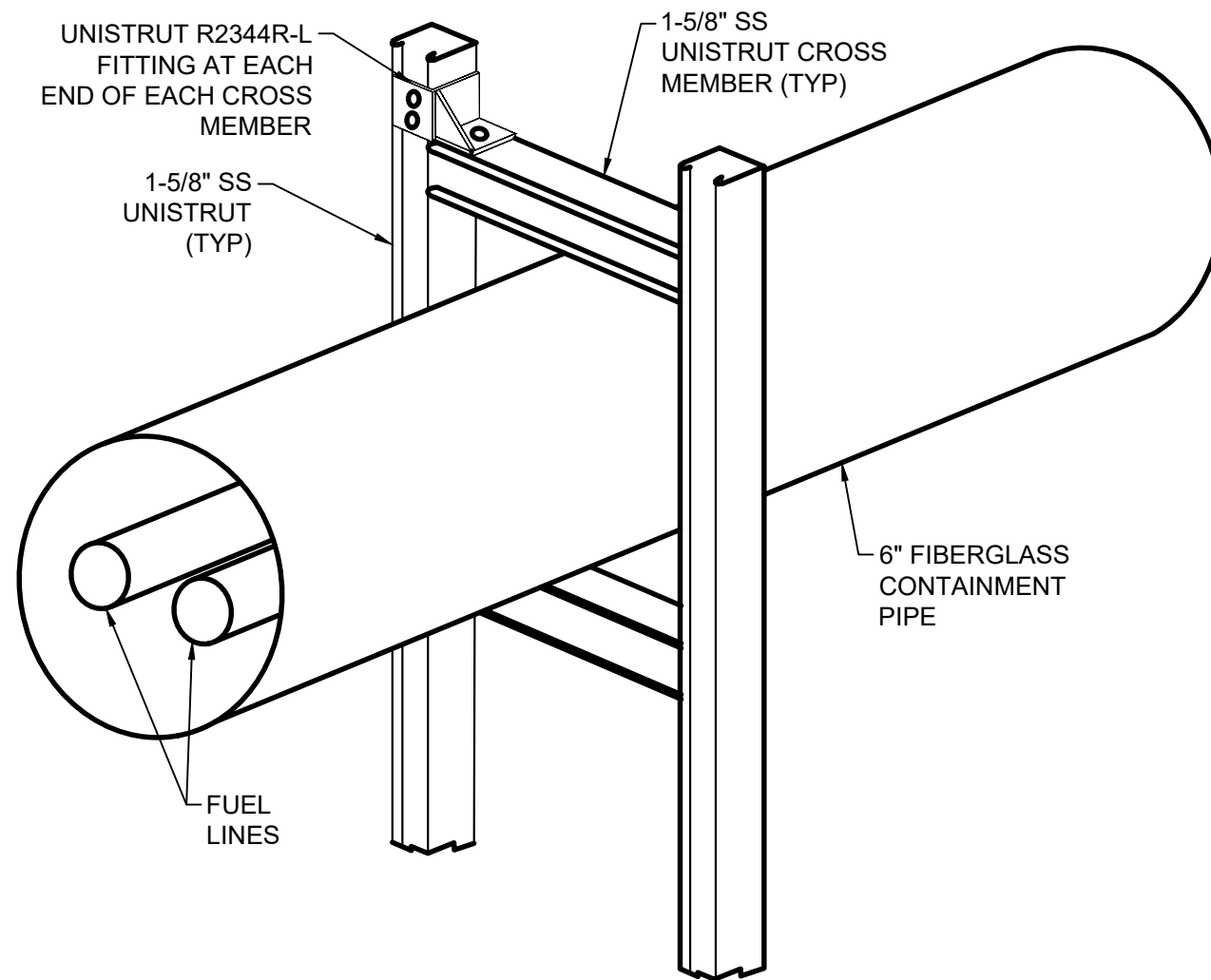
- NOTES:
1. LOUVER INSTALLATION PER MANUFACTURERS NOA DETAIL.
 2. SEE MECHANICAL SITE PLANS FOR LOUVER AND FAN MODEL. (SHEETS P6-C4, P7-C4, P8-C4, P9-C4)
 3. PUMP STATIONS 7 AND 9 WILL UTILIZE EXISTING LOUVERS.
 4. PROVIDE FAN SUPPORT BRACKETS AS REQUIRED.

3 FAN & LOUVER MOUNTING DETAIL
M5-1 NTS

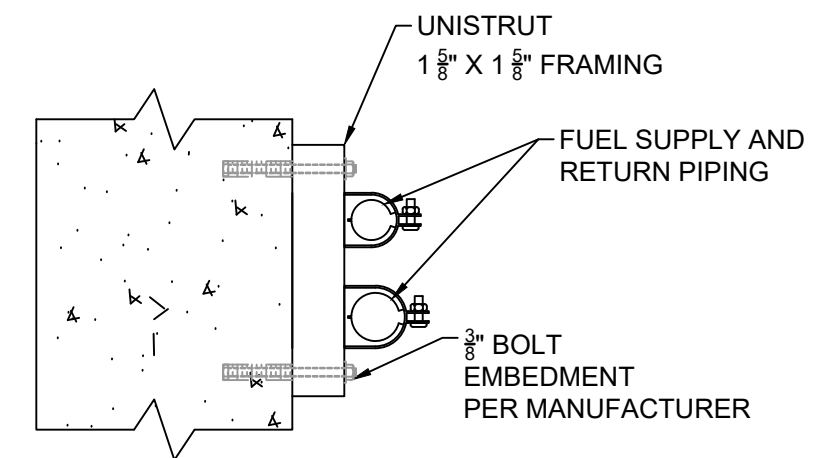


- NOTE:
1. ALL PIPING SHALL BE SCH40 BLACK IRON, PAINTED YELLOW.
 2. INSTALL UNION BETWEEN ANTI SIPHON VALVE AND BALL VALVE.
 3. PROVIDE PRESSURE RELIEF VALVE ON SUPPLY PIPE.

4 FUEL LINE SCHEMATIC
M5-1 NTS



5 UNISTRUT PIPE SUPPORT COLUMN
M5-1 NTS



- NOTES:
1. PIPE SUPPORTS SHALL MEET THE REQUIREMENTS OF SECTION 5, CHAPTER II OF ANSI B31.1.
 2. PIPE SUPPORT SPACING SHALL NOT EXCEED 8 FEET.

6 PIPE UNISTRUT CONNECTION TO WALL DETAIL
M5-1 NTS

CADD File: F:\well\pdp1\CADD\DWG\ISP\1CS01_M501 - MECHANICAL DETAILS.dwg
PLOT DATE: May 05, 2026 - 9:36pm

Vertical Datum:
NGVD29
P.A. No.
WE050.00
Dwg. No.
43-41-33-07
Location:
PALM BEACH COUNTY, FL

No.	Date	By	Revision
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SEAL
GARRYTT G. GRUBER
Florida P.E. No. 60721

Date

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**STORMWATER PUMP STATIONS
NOS. 3, 4, 6, 7, 8, AND 9
IMPROVEMENTS**

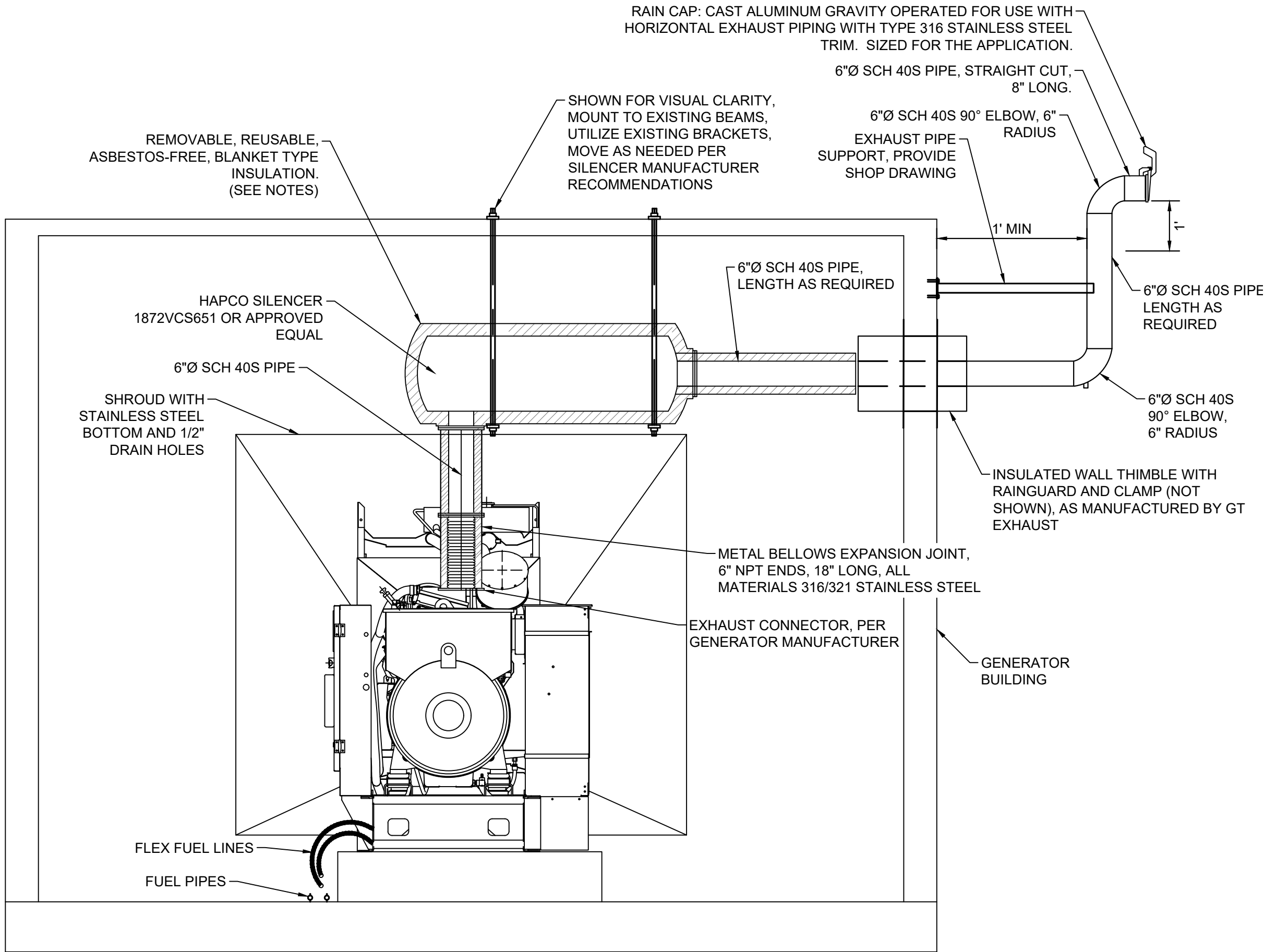
VILLAGE OF WELLINGTON

**MECHANICAL
DETAILS**

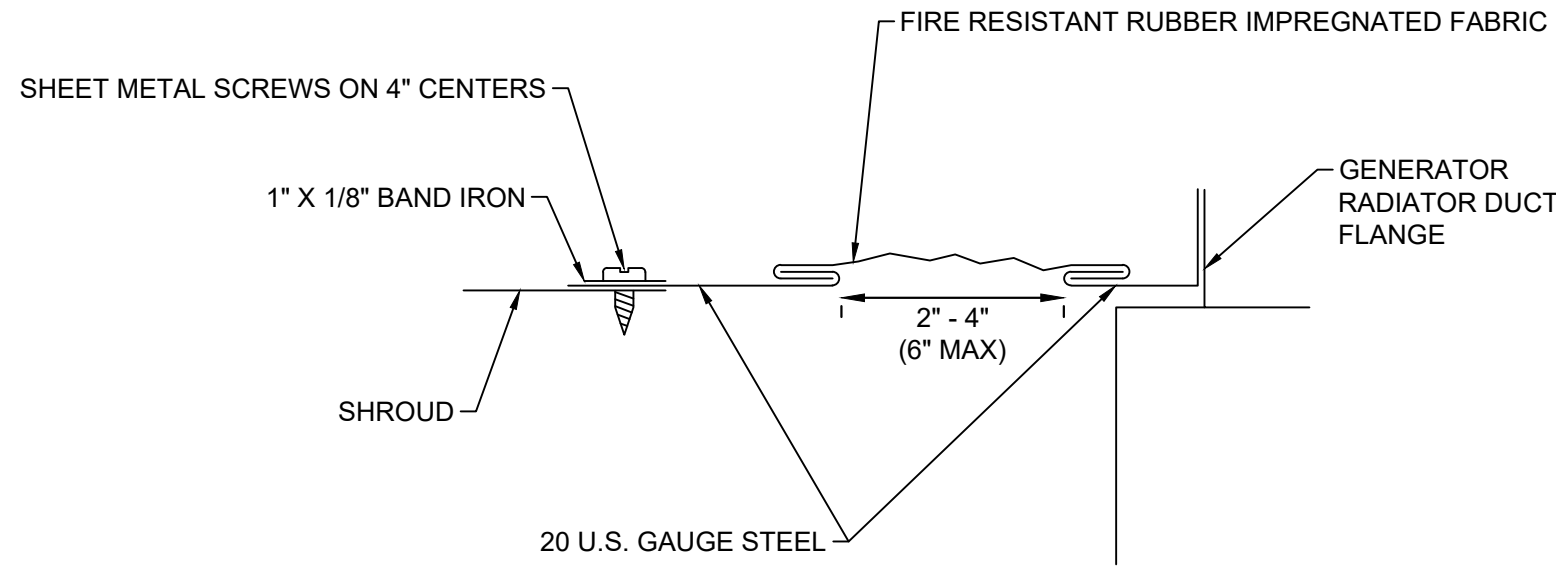
MAY 2026

M5-1

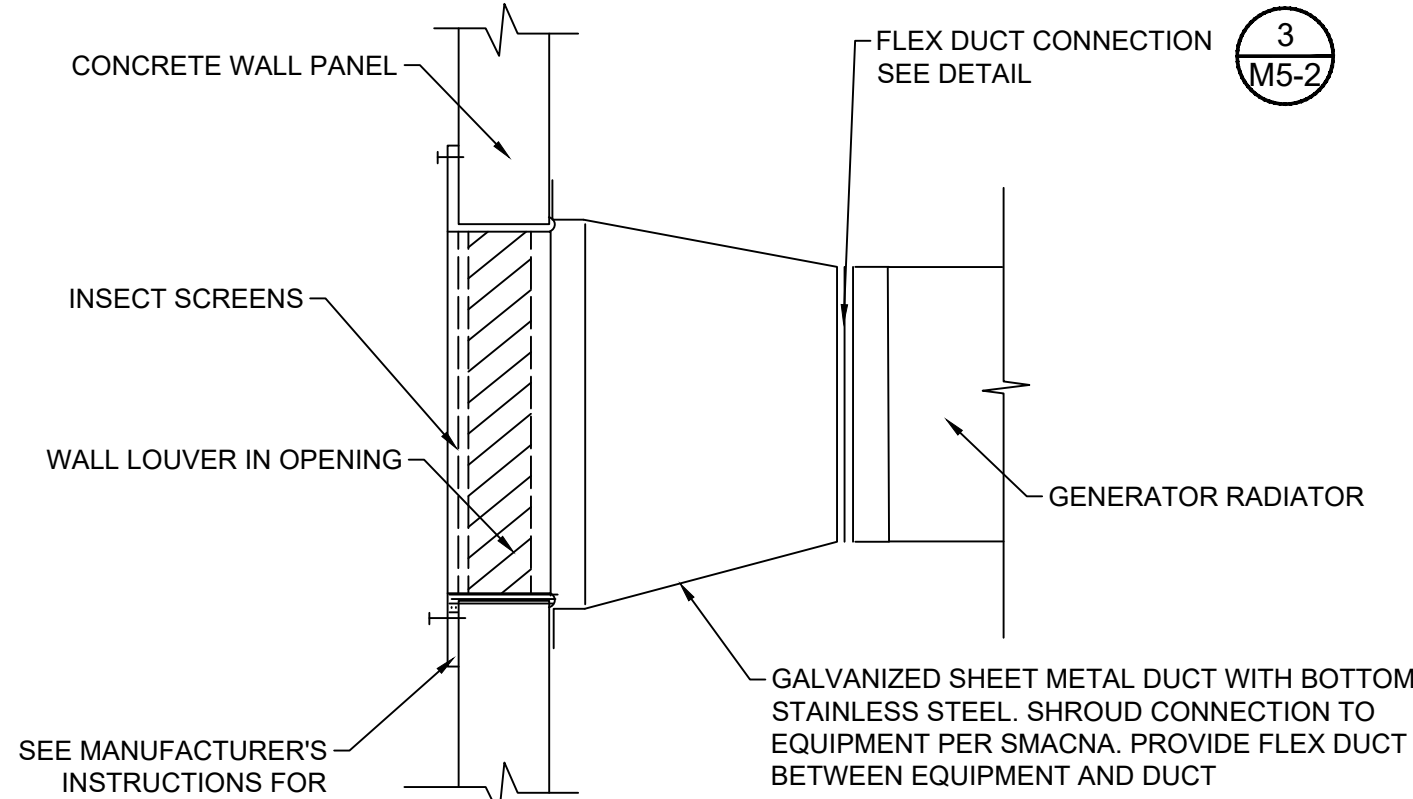
NOTES:
ENGINE EXHAUST PIPING SHALL HAVE BLANKET INSULATION. INSULATION SHALL BE REMOVABLE AND REUSABLE, ASBESTOS-FREE, THERMAL INSULATION BLANKETS. MATERIAL SHALL BE TWO-INCH (2") MINIMUM THICKNESS, CUSTOM-FITTED, HIGH-DENSITY (8 POUNDS PER CUBIC FOOT) CERAMIC FIBER RATED FOR 2300 °F. BLANKETS SHALL BE TOTALLY ENCAPSULATED IN TYPE 304 STAINLESS STEEL MESH WITH A SILICONE-COATED, FIBERGLASS CLOTH WEATHER BARRIER ON THE OUTER SURFACE, AND LACED WITH 18-GAGE TYPE 304 STAINLESS STEEL WIRE. CUSTOM-FITTED INSULATION BLANKETS OF THE SAME MATERIAL SHALL ALSO BE SUPPLIED FOR FLANGED CONNECTIONS. BLANKET INSULATION SHALL BE DURABLANKET S (UNIFRAX LLC), OR EQUAL.



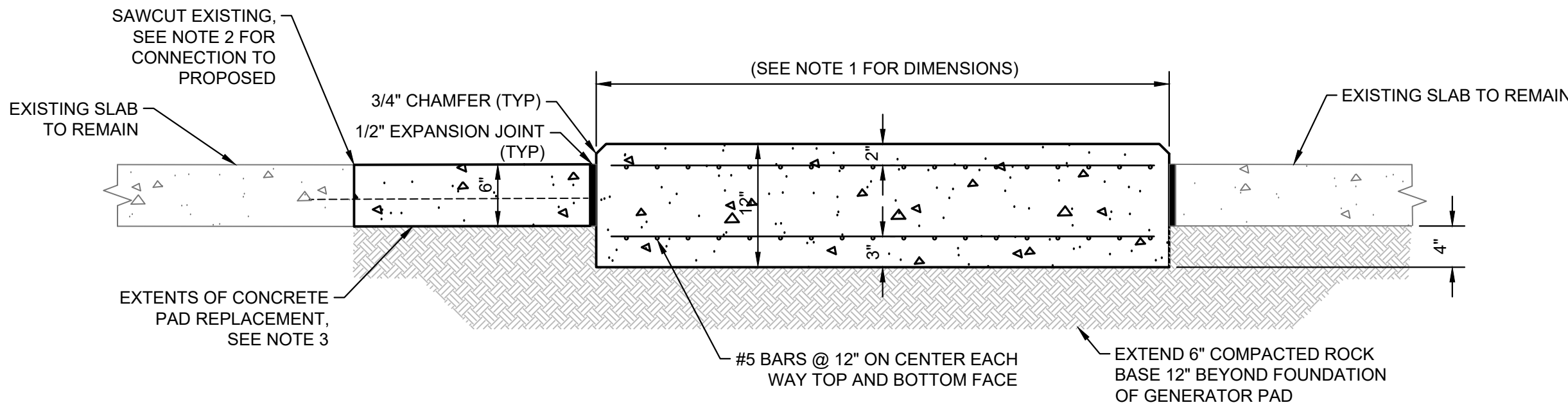
1 SILENCER HANGER
M5-2 NTS



3 FLEXIBLE DUCT CONNECTION
M5-2 NTS



2 WALL LOUVER DETAIL
M5-2 NTS



- NOTES:
1. GENERATOR ISOLATION SLAB TO BE SIZED PER GENERATOR MANUFACTURER'S RECOMMENDATIONS.
 2. DOWEL #6 REBAR @ 12" O.C. INSTALL WITH APPROVED EPOXY ADHESIVE PER MANUFACTURER'S INSTRUCTIONS. EXTEND DOWELS 12" MIN. INTO NEW SLAB REINFORCEMENT AND 6" INTO EXISTING SLAB.
 3. 6" 4000 PSI CONCRETE PAD WITH 6" X 6" #9 WWF SUPPORTED ON CHAIRS OR FIBER REINFORCED CONCRETE, CURING COMPOUND IS REQUIRED. REPLACEMENT EXTENTS PER PLANS ARE APPROXIMATE, CONTRACTOR TO NOTIFY OWNER AND ENGINEER AND PROVIDE STAFF TO SPEND TIME IDENTIFYING POTENTIAL CAUSE OF SETTLEMENT.

4 RAISED ISOLATION SLAB AND SITE SLAB REPAIR
M5-2 NTS

CADD File: F:\well\p1\CAD\DWG\ISP\1CS01_M501 - MECHANICAL DETAILS.dwg
PLOT DATE: May 05, 2026 - 9:36pm

Bar is equal to one inch on original drawing
Adjust all scaled dimensions accordingly

Vertical Datum:
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**MECHANICAL
DETAILS**

MAY 2026

M5-2