

ENGINEER SHALL PROVIDE A SCALED SITE SPECIFIC DETAIL

IF LIFT STATION SITE IS NOT CONTIGUOUS TO PUBLIC R/W, A 15' MINIMUM WIDTH EASEMENT APPROVED BY THE CITY MUST BE PROVIDED TO R/W

PUMP STATION SITE PLAN

N.T.S.



TECHNICAL
STANDARDS
MANUAL

PUMP STATION SITE PLAN

TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN, FLORIDA

CAD FILE: 2025-LIFTSTATIONS.dwg

DWN BY: DJJ

DATE: OCTOBER 2025

SHEET NO: LS-1

DETAIL

LS-1

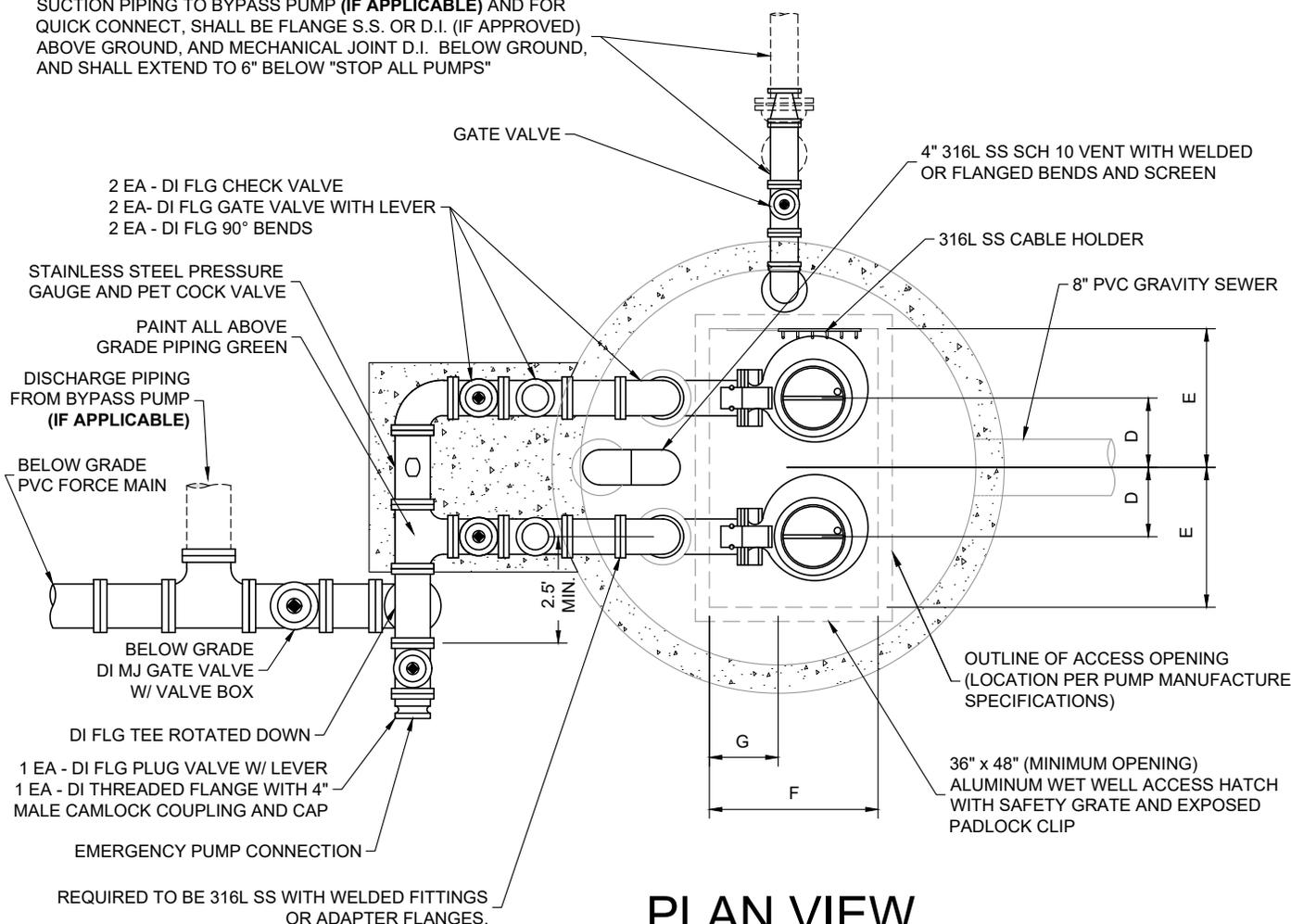
GENERAL NOTES:

1. ALL EXPOSED NON STAINLESS STEEL METAL SHALL BE PAINTED WITH 2 COATS OF EXTERIOR ENAMEL PAINT.(COLOR TO BE DETERMINED PER JOB)
2. EXTERIOR WET WELL SHALL BE COATED WITH COAL TAR.OUTSIDE CONCRETE SURFACES SHALL BE LEFT BARE. (ONE COAT(9 MILS) COAL TAR EPOXY TO BE FIELD APPLIED AFTER INSTALLATION.) INTERIOR WET WELL SHALL BE HDPE LINER WITH WELDED JOINTS.
3. BASE AND FIRST RISERS TO BE CAST MONOLITHIC.
4. ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL OR VALVE VAULT SHALL BE MADE WATERTIGHT WITH WALL SLEEVE, LINK SEAL, OR EQUIVALENT.
5. THERE SHALL BE NO VALVES OR ELECTRICAL JUNCTION BOXES IN WET WELL.
6. WET WELL COVERS SHALL BE ALUMINUM WITH 316L S.S. HARDWARE AND LOCK BRACKET. SIZE AS REQUIRED BY PUMP MANUFACTURE AND APPROVED BY THE CITY. INSTALL "SAFE-HATCH" ACCESS COVER (MANUFACTURED BY FLYGT OR EQUIVALENT.
7. WET WELL GROUT CIRCLE SHOULD BE PLACED AND FORMED AS SHOWN IN PUMP MANUFACTURES SHOP DRAWINGS AND TROWELED SMOOTH TO PREVENT SOLIDS BUILD-UP.
8. PUMPS (2 EACH) SHALL BE SUBMERSIBLE:
 MANUFACTURER: _____; MODEL: _____; IMP: _____; DIA: _____;
 MM, SPEED: _____ RPM; DISCHARGE SIZE: _____ IN.; VOLTAGE: _____;
 HZ.: _____; PHASE: _____; H.P.: _____;
 MIN. SOLID SIZE: _____ IN.; CURVE: _____.
9. ALL HARDWARE IN WET WELL AND VALVE BOX TO BE STAINLESS STEEL.
10. CONTRACTOR TO VERIFY THAT 240V / 3 PHASE POWER IS AVAILABLE BEFORE ORDERING EQUIPMENT.
11. PROVIDE MOTOR OVERLOAD AND PHASE PROTECTION.
12. PROVIDE LIGHTNING PROTECTION.
13. CHECK VALVES TO BE MUELLER OR CLOW, KENNEDY, MH.
14. WET WELL SHALL HAVE HDPE PROTECTIVE LINER WITH WELDED SEAMS(AGRULINER OR EQUIVALENT
15. DUCTILE IRON FORCEMAIN PIPE AND FITTINGS TO BE LINED WITH PROTECTO 401 CERAMIC EPOXY IN ACCORDANCE WITH ASTM A716/A746.
16. TOP OF WET WELL ELEVATION "Y" SHALL BE WHICHEVER IS HIGHEST:
 - 12" ABOVE FEMA 100 YEAR FLOOD ELEVATION
 - 12" ABOVE ADJACENT ROAD
 - 12" ABOVE SITE FINISH GRADE

✱	L/S
DIM A	8" MIN.
DIM B	__' __"
DIM C	✱
DIM D	✱
DIM E	✱
DIM F	✱
DIM G	✱
DIM H	✱
DIM K	✱
ELEV T	0.00
ELEV U	0.00
ELEV V	0.00
ELEV W	0.00
ELEV X	0.00
ELEV Y	0.00
ELEV Z-1	NE = __
	E = __
GPM@TDH	__@__'

✱ PER PUMP MANUFACTURERS REQUIREMENT

SUCTION PIPING TO BYPASS PUMP (IF APPLICABLE) AND FOR QUICK CONNECT, SHALL BE FLANGE S.S. OR D.I. (IF APPROVED) ABOVE GROUND, AND MECHANICAL JOINT D.I. BELOW GROUND, AND SHALL EXTEND TO 6" BELOW "STOP ALL PUMPS"



PLAN VIEW
N.T.S.

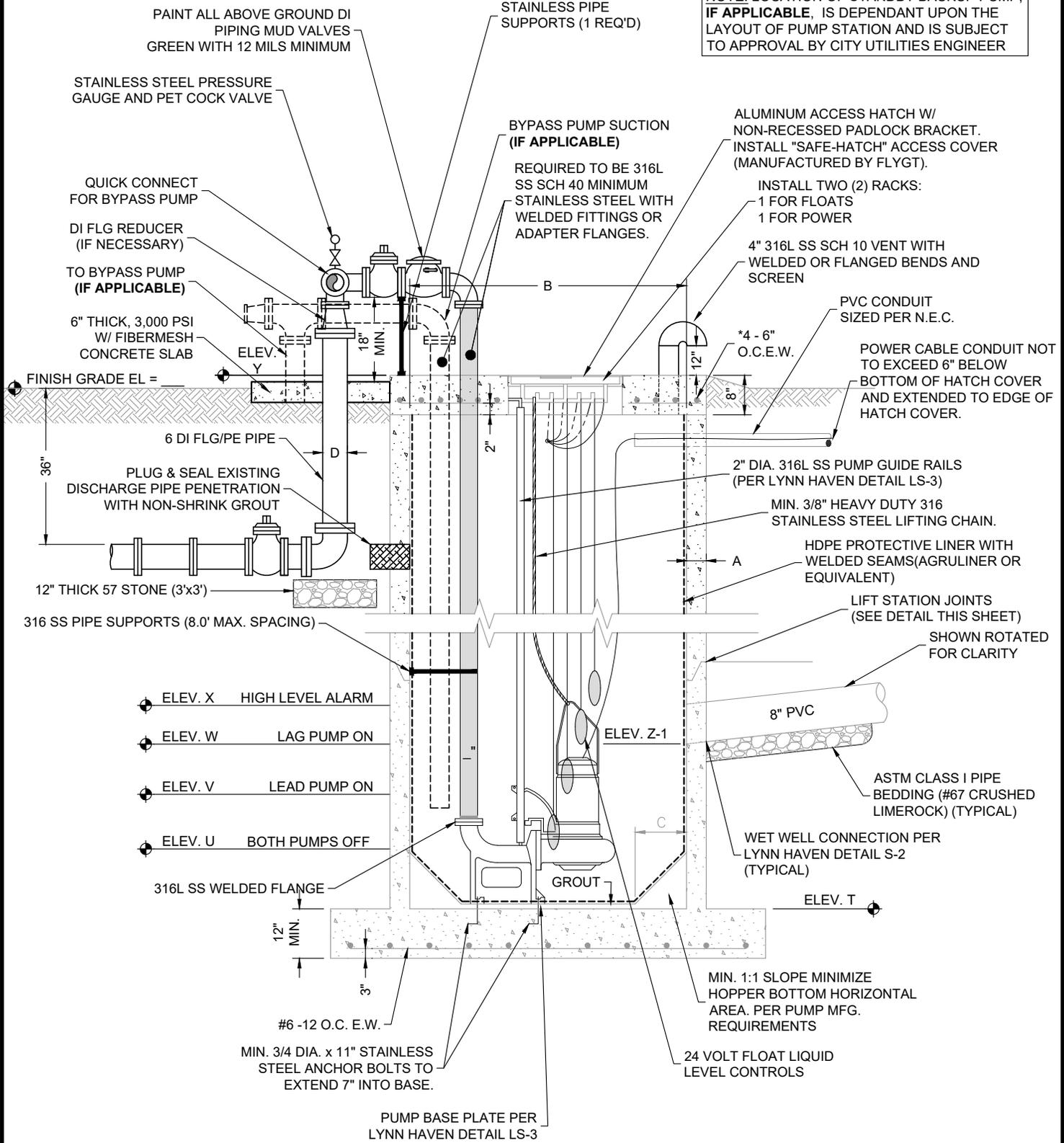


TECHNICAL STANDARDS MANUAL

**PUMP STATION DETAILS
PLANS, SECTION AND NOTES
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN, FLORIDA**

CAD FILE: 2025-LIFTSTATIONS.dwg
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LS-2A

NOTE: LOCATION OF STANDBY BACKUP PUMP, IF APPLICABLE, IS DEPENDANT UPON THE LAYOUT OF PUMP STATION AND IS SUBJECT TO APPROVAL BY CITY UTILITIES ENGINEER



SECTION VIEW
N.T.S.



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City of Lynn Haven Lift Stations Pump Selection Standards

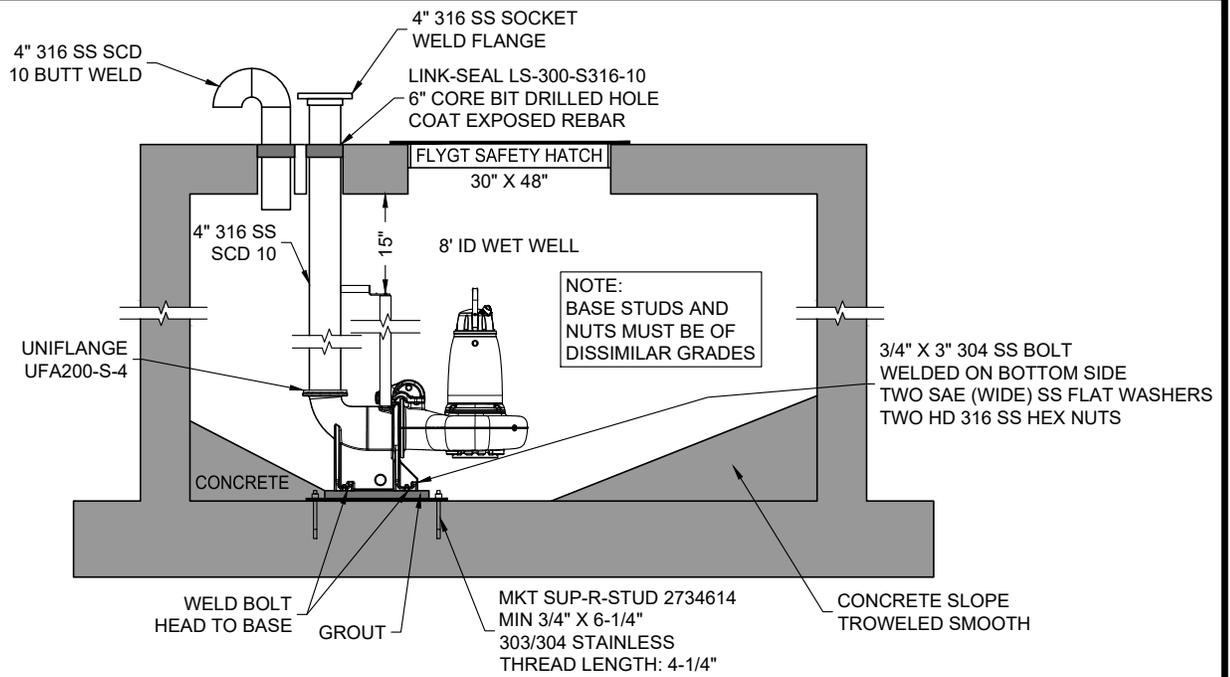
1. THE PUMP DISCHARGE CONNECTION SHALL BE ACCOMPLISHED BY A MACHINED METAL-TO-MACHINED METAL WATERTIGHT CONTACT. SEALING OF THE DISCHARGE INTERFACE WITH A DIAPHRAGM, "O" RING, OR PROFILE GASKET OF ANY MATERIAL WILL NOT BE ACCEPTED.
2. ALL POWER CONDUCTORS, LEAKAGE SENSOR CONDUCTORS, AND THERMAL PROTECTION CONDUCTORS SHALL BE ENCASED IN A SINGLE CABLE JACKET. THE CONNECTION OF THIS SINGLE MULTI-CONDUCTOR CABLE AT THE PUMP END SHALL BE A SERVICEABLE WATERTIGHT GLAND STYLE. CABLE TO PUMP CONNECTIONS UTILIZING A HARDENED EPOXY SEALING METHODS WILL NOT BE CONSIDERED.
3. PUMP IMPELLERS SHALL BE EASY TO REMOVE, ADJUSTED, AND FIELD SERVICEABLE WITHOUT THREAT OF DAMAGE TO THE SHAFT OR MECHANICAL SEAL. IMPELLERS SHALL BE REMOVABLE WITH THE USE OF A PRESS TOOL OR AN ADJUSTABLE CONICAL SLEEVE HUB.
4. CLEARANCE OF THE IMPELLER TO WEAR RING OR PLATE SHALL BE MADE ADJUSTABLE USING READILY AVAILABLE SHIMS OR BY WAY OF A GLAND SCREW.
5. IMPELLERS ON PUMPS UTILIZED IN THE COMMON FORCE MAIN AND SANITARY COLLECTION SYSTEM SHALL NOT BE OF THE SINGLE VEIN OR OPEN VEIN STYLE. DEPENDENT ON THE SPECIFIC NEEDS AND APPLICATION A MULTI VEIN, VORTEX, CHOPPER, OR GRINDER STYLE OF IMPELLER WILL BE SELECTED.
6. PUMP MOTORS WILL BE AIR FILLED AND EXPLOSION PROOF. THE USE OF DIELECTRIC FLUIDS IN THE MOTOR COMPARTMENT OF A PUMP SHALL BE CONSIDERED UNACCEPTABLE DUE TO ITS POSSIBLE ENVIRONMENTAL IMPACT. PUMPS CAN HAVE AN EXTERNAL LIQUID COOLANT FILLED COOLING JACKET AS LONG AS AN ENVIRONMENTALLY SAFE COOLANT IS USED.
7. 5 YEAR COMPLETE UNLIMITED WRITTEN LABOR AND MATERIALS / EQUIPMENT WARRANTY TO BE PROVIDED BY PUMP SUPPLIER / VENDOR. NO EXCEPTIONS.



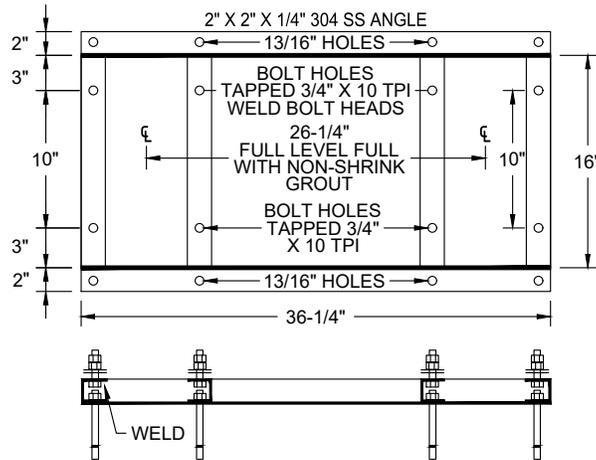
TECHNICAL
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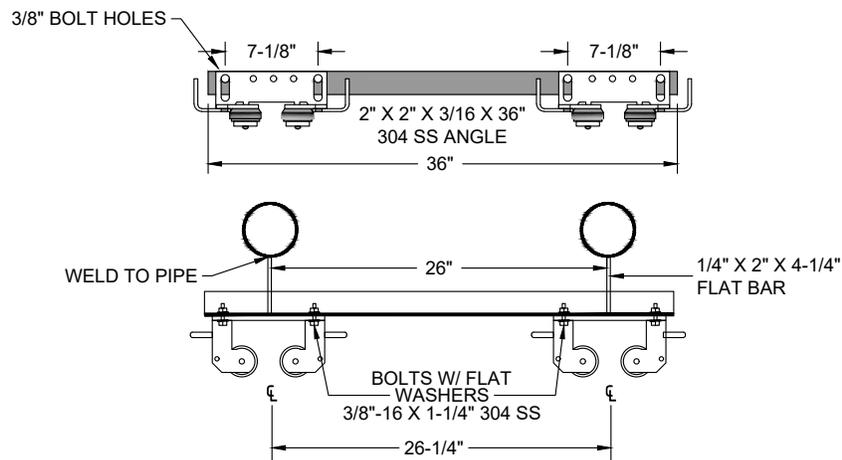


EXAMPLE FOR FLYGT 3127 PUMP MOUNTING FRAME FOR 8' ID WET WELL AND 4" DISCHARGE PIPE



FLYGT 2" UPPER GUIDE BAR BRACKET

613 68 04 316 STAINLESS STEEL



TECHNICAL
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MANUAL

PUMP STATION
PUMP BASE PLATE AND MOUNTING
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN, FLORIDA

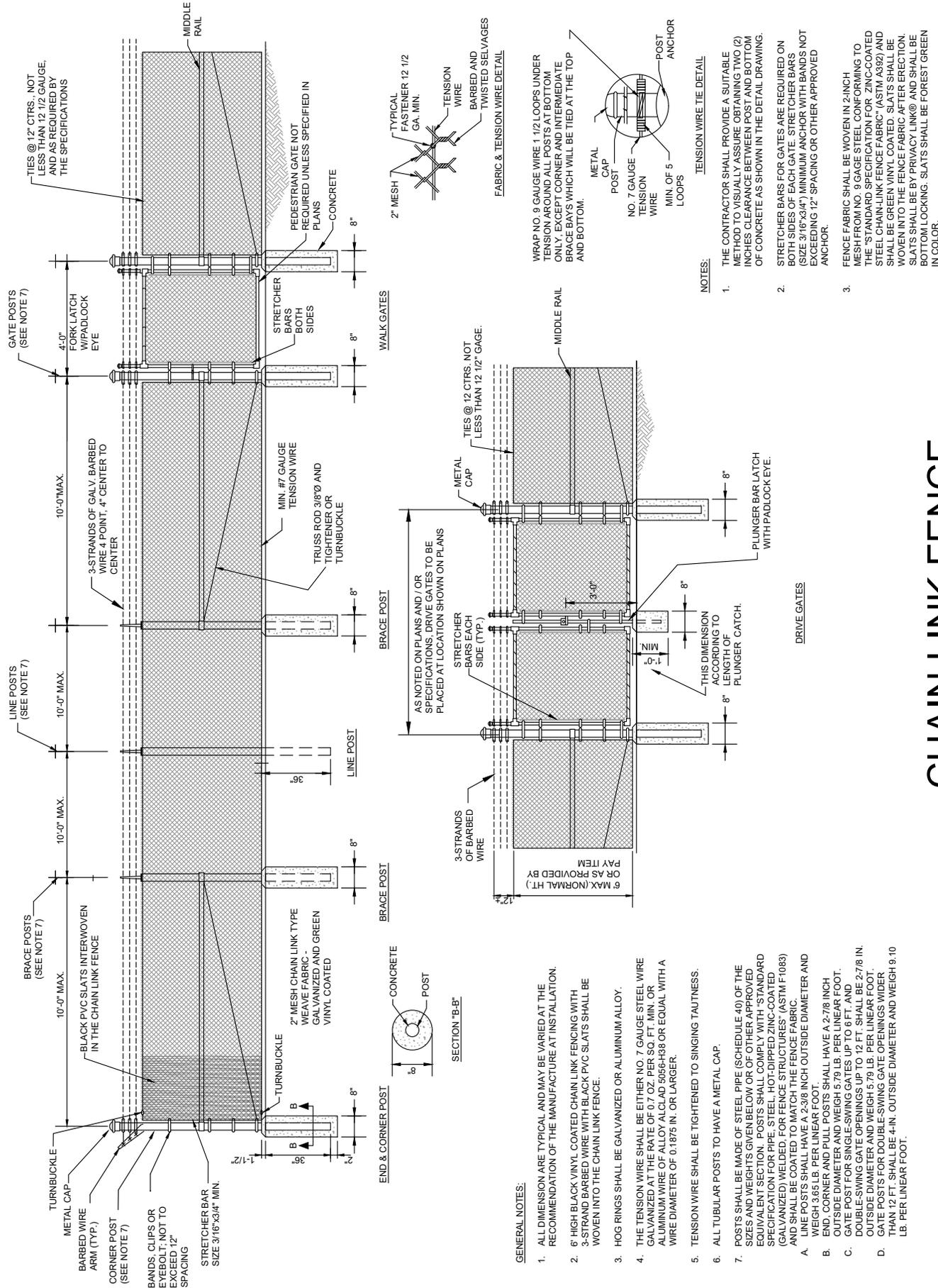
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TECHNICAL STANDARDS MANUAL

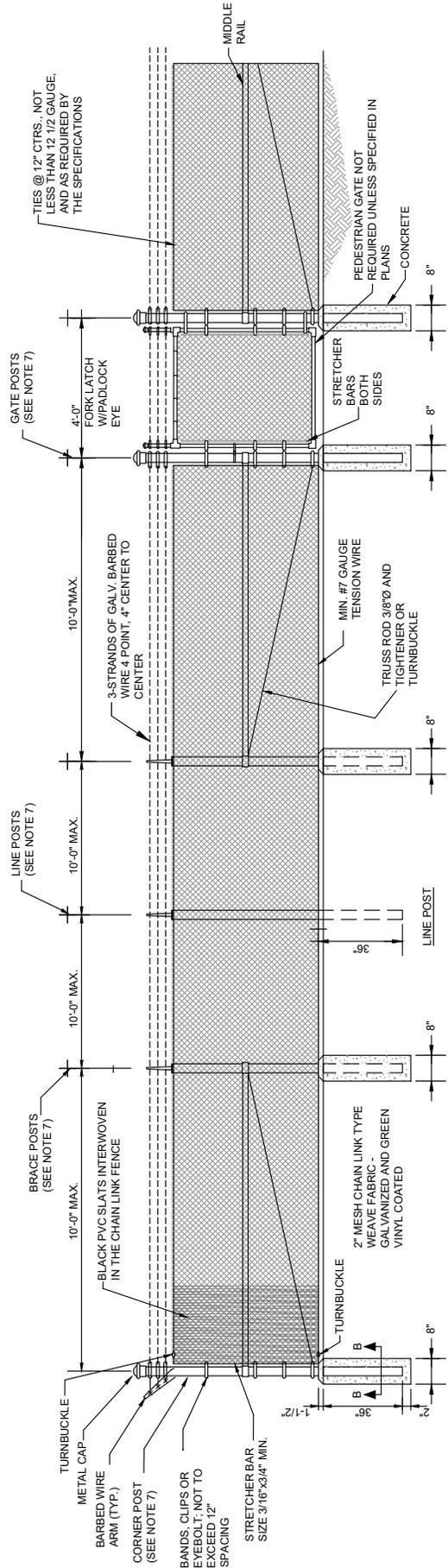
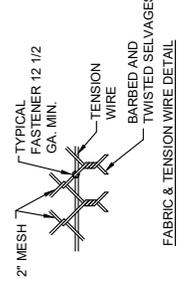
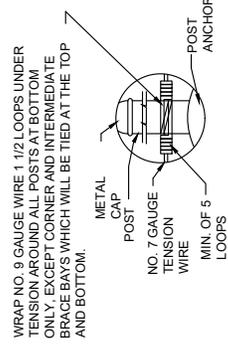
CHAIN LINK FENCE DETAIL
TECHNICAL STANDARDS MANUAL
 CITY OF LYNN HAVEN, FLORIDA

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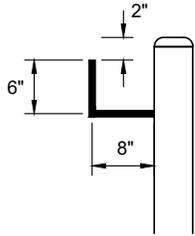


- GENERAL NOTES:**
- ALL DIMENSIONS ARE TYPICAL AND MAY BE VARIED AT THE RECOMMENDATION OF THE MANUFACTURE AT INSTALLATION.
 - 6" HIGH BLACK VINYL COATED CHAIN LINK FENCING WITH 3-STRAND BARBED WIRE WITH BLACK PVC SLATS SHALL BE WOVEN INTO THE CHAIN LINK FENCE.
 - HOG RINGS SHALL BE GALVANIZED OR ALUMINUM ALLOY.
 - THE TENSION WIRE SHALL BE EITHER NO. 7 GAUGE STEEL WIRE GALVANIZED AT THE RATE OF 0.7 OZ. PER SQ. FT. MIN. OR ALUMINUM WIRE OF ALLOY ALCLAD 5056-H38 OR EQUAL WITH A WIRE DIAMETER OF 0.1875 IN. OR LARGER.
 - TENSION WIRE SHALL BE TIGHTENED TO SINGING TAUTNESS.
 - ALL TUBULAR POSTS TO HAVE A METAL CAP.
 - POSTS SHALL BE MADE OF STEEL PIPE (SCHEDULE 40) OF THE SIZES AND WEIGHTS GIVEN BELOW OR OTHER APPROVED EQUIVALENTS WITH THE FOLLOWING SPECIFICATIONS: GALVANIZED STEEL PIPE, STEEL PIPE HOT DIPPED ZINC COATED (GALVANIZED) WELDED, FOR FENCE STRUCTURES (ASTM F1083) AND SHALL BE COATED TO MATCH THE FENCE FABRIC.
- A.** LINE POSTS SHALL HAVE A 2-3/8 INCH OUTSIDE DIAMETER AND WEIGH 3.65 LB. PER LINEAR FOOT.
- B.** END, CORNER AND PULL POSTS SHALL HAVE A 2-7/8 INCH OUTSIDE DIAMETER AND WEIGH 5.79 LB. PER LINEAR FOOT.
- C.** GATE POST FOR SINGLE-SWING GATES UP TO 6 FT. AND DOUBLE-SWING GATE OPENINGS UP TO 12 FT. SHALL BE 2-7/8 IN. OUTSIDE DIAMETER AND WEIGH 5.79 LB. PER LINEAR FOOT.
- D.** GATE POSTS FOR DOUBLE-SWING GATE OPENINGS WIDER THAN 12 FT. SHALL BE 4-IN. OUTSIDE DIAMETER AND WEIGH 9.10 LB. PER LINEAR FOOT.

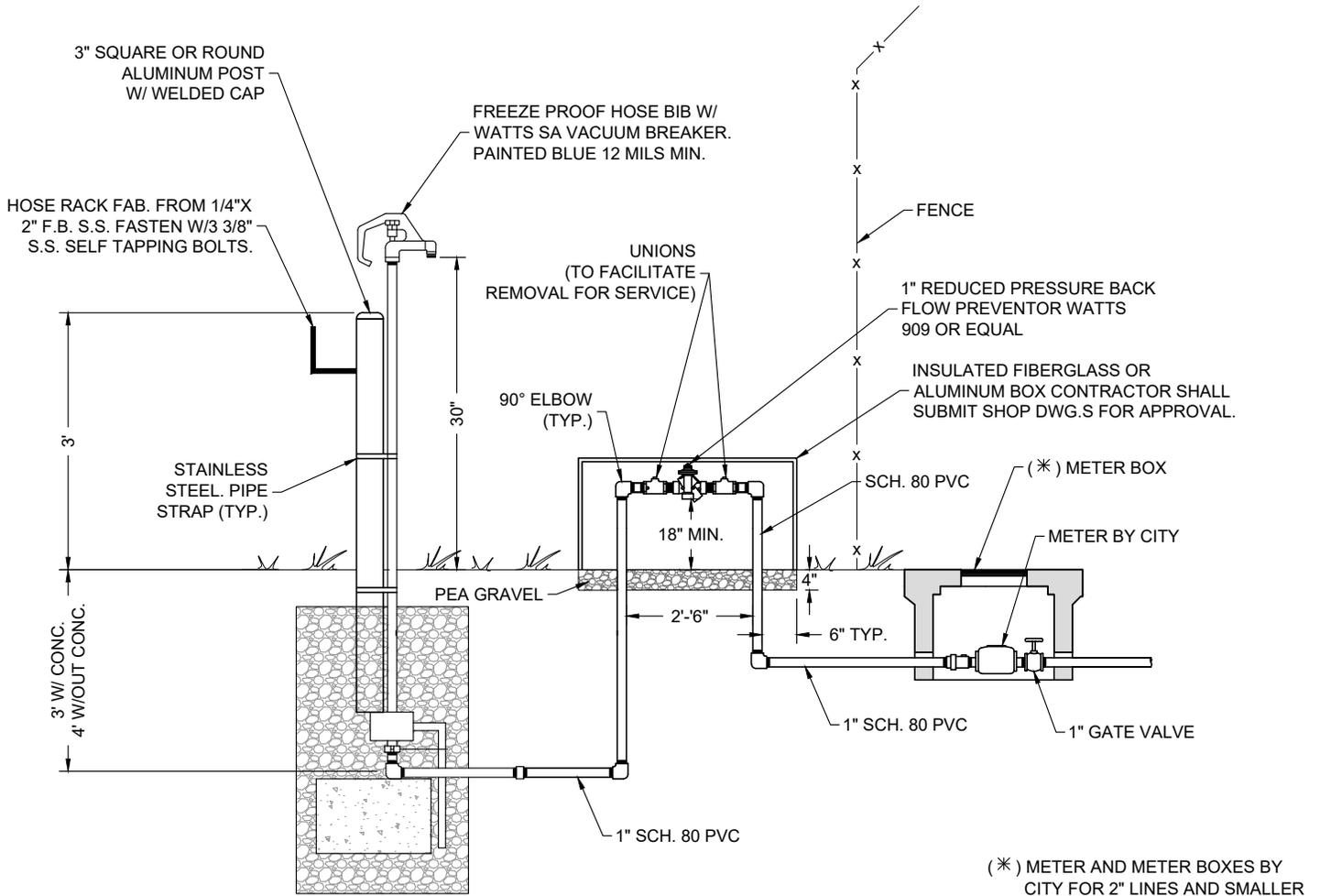
- NOTES:**
- THE CONTRACTOR SHALL PROVIDE A SUITABLE METHOD TO VISUALLY ASSURE OBTAINING TWO (2) INCHES CLEARANCE BETWEEN POST AND BOTTOM OF CONCRETE AS SHOWN IN THE DETAIL DRAWING.
 - STRETCHER BARS FOR GATES ARE REQUIRED ON BOTH SIDES OF EACH GATE. STRETCHER BARS (SIZE 3/16"x3/4") MINIMUM ANCHOR WITH BANDS NOT EXCEEDING 12" SPACING OR OTHER APPROVED ANCHOR.
 - FENCE FABRIC SHALL BE WOVEN IN 2-INCH MESH FROM NO. 9 GAGE STEEL CONFORMING TO THE "STANDARD SPECIFICATION FOR ZINC-COATED STEEL CHAIN-LINK FENCE FABRIC" (ASTM A392) AND SHALL BE GREEN VINYL COATED. SLATS SHALL BE WOVEN INTO THE FENCE FABRIC AFTER ERECTION. SLATS SHALL BE BY PRIVACY LINK® AND SHALL BE BOTTOM LOCKING. SLATS SHALL BE FOREST GREEN IN COLOR.



CHAIN LINK FENCE
 N.T.S.



HOSE RACK



NOTE:
INSULATE ALL ABOVE GROUND PIPING.
PIPE INSULATION TO BE CERTIANTEED
500 SNAP ON W/ AWS OR EQUAL.

LIFT STATION WATER SERVICE DETAIL

N.T.S.



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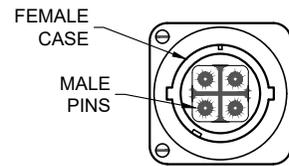
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LS-5

NOTES:

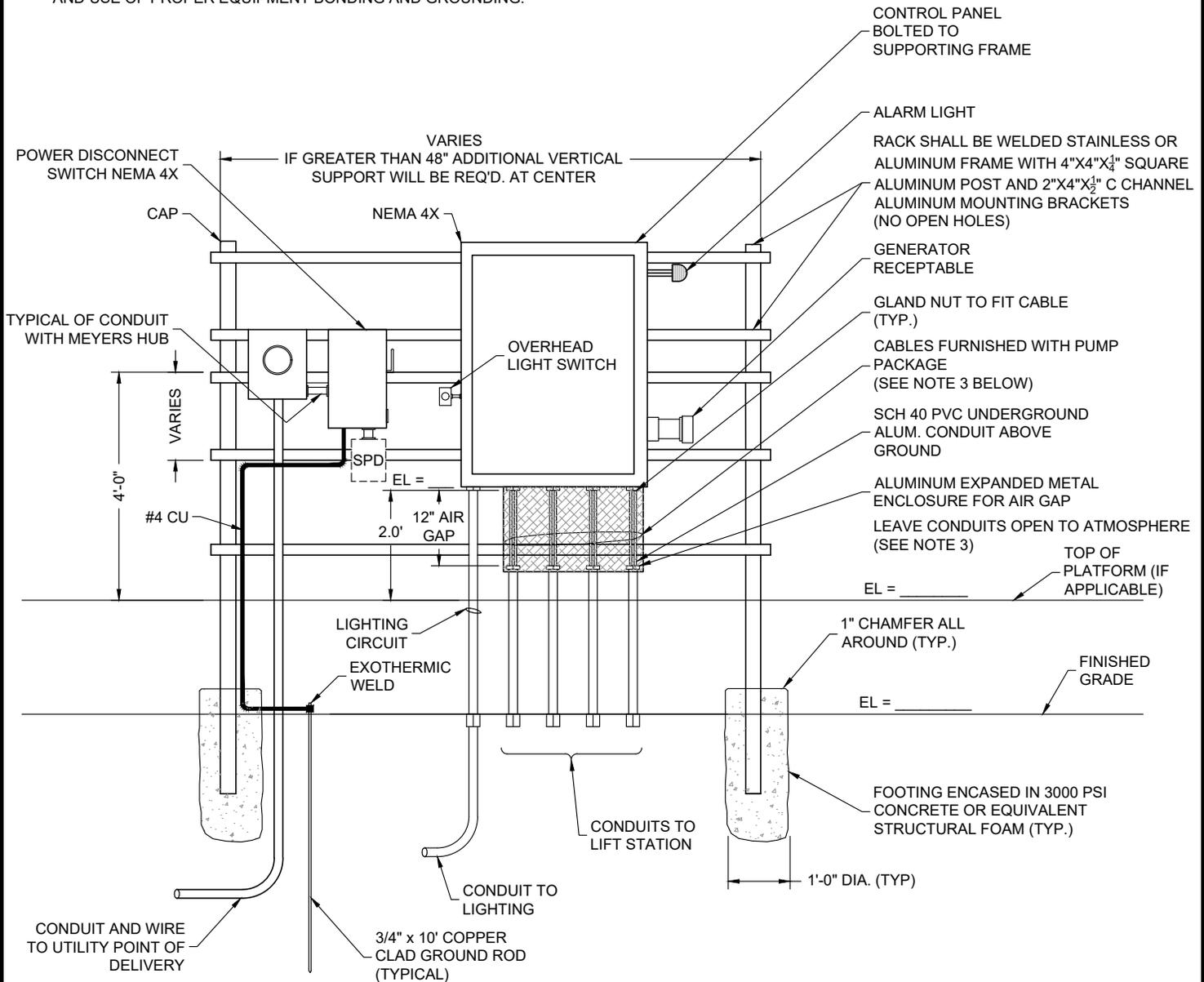
1. PROVIDE CONCRETE PAD FOR ANY FREESTANDING EQUIPMENT. ANCHOR FREESTANDING EQUIPMENT PER MANUFACTURER'S RECOMMENDATION.
2. PROVIDE 12" AIR GAP BETWEEN CONDUITS FROM WET WELL & CONTROL PANEL. AIR GAP SHALL BE SCREENED OR CAGED TO PREVENT INTRUSION OF PESTS.
3. COORDINATE WITH CITY OF LYNN HAVEN FOR GENERATOR RECEPTACLE CATALOG # TO MATCH THEIR EXISTING EQUIPMENT.
4. DRAWING IS SHOWN FOR 230 VOLT POWER SUPPLY. THE LOCATION OF METER AND MAIN POWER DISCONNECT SHALL BE REVERSED FOR 480 VOLT SUPPLY.
5. WHEN TWO (2) SEPARATE CONDUCTOR-TYPE MOTORS ARE USED, CONDUIT SHALL BE INCREASED TO 3".
6. POWER SUPPLY SHALL BE UNDERGROUND ON THE LIFT STATION SITE AND SHALL BE 3 PHASE FROM A 3 PHASE SOURCE ONLY.
7. CONTRACTOR TO VERIFY AVAILABILITY OF 3 PHASE POWER BEFORE ORDERING EQUIPMENT.
8. PROVIDE 2" CONDUITS FOR FLOAT LEADS AND EACH MOTOR LEAD.
9. CONDUIT SHALL BE SCHEDULE 80 PVC.
10. POWER CIRCUIT (SAFETY SWITCH, POWER WIRES, MAIN BREAKERS, AND STARTERS TO BE SIZED APPROPRIATELY BY AN ELECTRICAL ENGINEER.
11. THE LIFT STATION CONTROL PANEL SHALL BE EQUIPPED WITH A STANDARD LIGHTNING PROTECTION SYSTEM TO SAFEGUARD SENSITIVE ELECTRICAL AND ELECTRONIC COMPONENTS FROM TRANSIENT OVER VOLTAGES CAUSED BY LIGHTNING STRIKES AND POWER SURGES. THE LIGHTNING PROTECTION SYSTEM SHALL INCLUDE THE FOLLOWING COMPONENTS: SURGE PROTECTION DEVICES (SPDS), ENCLOSURE PROTECTION OF ELECTRICAL EQUIPMENT IN THE PROPER RATED NEMA 4X FOR OUTDOOR, AND USE OF PROPER EQUIPMENT BONDING AND GROUNDING.



GENERATOR RECEPTACLE

MANUFACTURE: RUSSELL STOLL
MODEL: #JRSB1044FR (OR EQUAL)

100 AMP PANEL MOUNTED WITH
20 DEGREE ANGLE, 4 WIRE, 4
POLES WITH REVERSE SERVICE



EQUIPMENT INSTALLATION DETAIL

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TECHNICAL STANDARDS MANUAL

PUMP STATION CONTROL PANEL INSTALLATION DETAIL
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN, FLORIDA

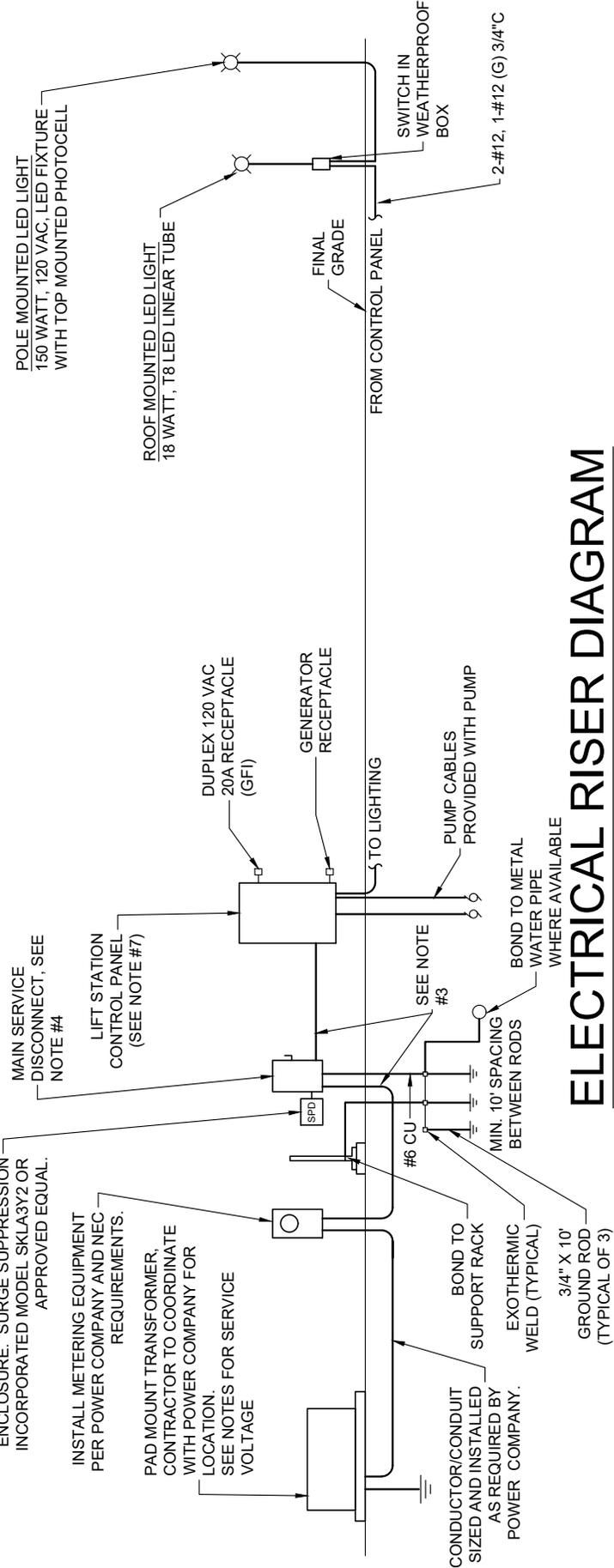
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NOTES:

1. CONTRACTOR SHALL COORDINATE AND INSTALL THE ELECTRICAL SERVICE IN ACCORDANCE WITH THE SERVING UTILITY REQUIREMENTS, LOCAL ORDINANCES, AND THE NATIONAL ELECTRICAL CODE (NEC).
2. SERVICE VOLTAGE RATINGS SHALL BE 480Y/277VAC, 3-PHASE, 4-WIRE, WYE SOLIDLY GROUNDED. EXCEPT FOR MOTOR LOADS LESS THAN 7-1/2HP, 240/120VAC, 3-PHASE, 4-WIRE, MID-TAP WITH HIGH LEG MAY BE ALLOWED, OR AS DETERMINED BY THE STATION DESIGN AND UTILITY REQUIREMENTS (NO SINGLE-PHASE SERVICE IS ALLOWED).
3. ELECTRICAL SERVICE CONDUCTOR AMPACITY SHALL BE SIZED SUITABLE FOR THE TOTAL LOAD REQUIREMENTS WITH A MINIMUM OF 125% OF THE MAIN SERVICE DISCONNECT RATING PLUS ANY INCREASE DUE TO VOLTAGE DROP ISSUES. CONDUIT SHALL BE SIZED FOR THE CONDUCTORS PER NEC, SCH 80 PVC, 1-1/2" MINIMUM.
4. THE MAIN SERVICE DISCONNECT RATING SHALL BE SIZED TO PROTECT THE SERVICE CONDUCTORS WITH A MINIMUM OF 100% OF THE PUMP CONTROL PANEL MAIN BREAKER AND ANY OTHER LOADS. THE AMPERE INTERRUPTING CURRENT DUTY SHALL BE GREATER THAN THE AVAILABLE FAULT CURRENT.
5. THE PUMP CONTROL PANEL MAIN BREAKER AMPERE RATING SHALL BE SIZED PER THE LOAD AS FOLLOWS:
THE LARGEST PUMP BREAKER AMPS + ALL OTHER PUMP FULL LOAD AMPS + 10 AMPS FOR CONTROL + ALL OTHER LOADS SUCH AS LIGHTING, RECEPTACLES AND LOADS ASSOCIATED WITH GENERATORS OR ENGINE DRIVEN PUMPS.
THE PANEL MAIN BREAKER RATING SHALL BE 100A MINIMUM. WHERE THE PANEL LOAD EXCEEDS 100A, THE RATING SHALL BE 200A, 400A OR LARGER AS DETERMINED BY THE PANEL ELECTRICAL DESIGN ENGINEER.
THE SHORT CIRCUIT RATING OF THE PANEL SHALL BE LABELED WITH A RATING THAT EXCEEDS THE AVAILABLE SHORT CIRCUIT CURRENT.
6. THE EMERGENCY GENERATOR BREAKER RATING AND THE GENERATOR RECEPTACLE RATING SHALL MATCH THE RATING OF THE PANEL MAIN BREAKER.
7. THE STATION CONTROL PANEL SHALL INCLUDE COMPLETE MOTOR STARTERS, MECHANICAL STARTERS OR VFD'S, INTEGRAL OVERCURRENT PROTECTION, SURGE PROTECTION, BATTERY BACKUP, CHARGER, ETC., REFERENCE SPECIFICATION 02570, (SOLID STATE STARTERS ARE NOT ACCEPTABLE)
8. PANEL SHALL HAVE (MOTOR PUMP) SPEC. LABELED IN ABOVE MOTOR BREAKER (MUST BE METAL TAG)
PROVIDE SURGE PROTECTIVE DEVICE WITH INTEGRAL FUSING IN NEMA 4X S.S. ENCLOSURE. SURGE SUPPRESSION INCORPORATED MODEL SKLA3Y2 OR APPROVED EQUAL.
INSTALL METERING EQUIPMENT PER POWER COMPANY AND NEC REQUIREMENTS.
PAD MOUNT TRANSFORMER, CONTRACTOR TO COORDINATE WITH POWER COMPANY FOR LOCATION. SEE NOTES FOR SERVICE VOLTAGE
CONDUCTOR/CONDUIT SIZED AND INSTALLED AS REQUIRED BY POWER COMPANY.
BOND TO METAL SUPPORT RACK EXOTHERMIC WELD (TYPICAL) 3/4" X 10' GROUND ROD (TYPICAL OF 3)
MIN. 10' SPACING BETWEEN RODS
BOND TO METAL WATER PIPE WHERE AVAILABLE
TO LIGHTING
PUMP CABLES PROVIDED WITH PUMP
GENERATOR RECEPTACLE
DUPLEX 120 VAC 20A RECEPTACLE (GFI)
LIFT STATION CONTROL PANEL (SEE NOTE #7)
MAIN SERVICE DISCONNECT, SEE NOTE #4
SEE NOTE #3
SEE NOTE #6

LOAD CALCULATION			
LOAD	CONNECTED		
	KVA	HP	VOLTAGE / PHASE
PUMP NO. 1			
PUMP NO. 2			
CONTROL POWER & MISC.			
TOTAL			
25% OF LARGEST MOTOR			
CONNECTED + 25% OF LARGEST MOTOR			

MOTOR SCHEDULE			
MOTOR ID	MOTOR SIZE	FULL LOAD CURRENT (NEC)	VOLTAGE/ PHASE
PUMP #2			



ELECTRICAL RISER DIAGRAM

N.T.S.



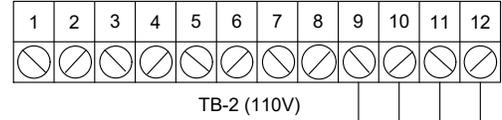
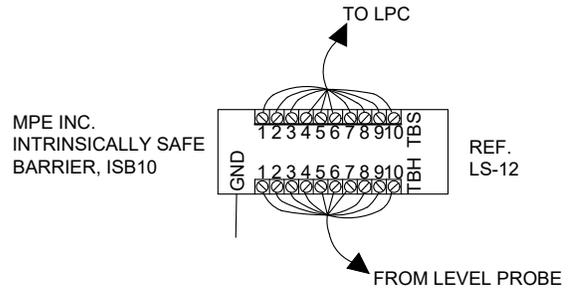
TECHNICAL STANDARDS MANUAL

ELECTRICAL RISER DIAGRAM
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN, FLORIDA

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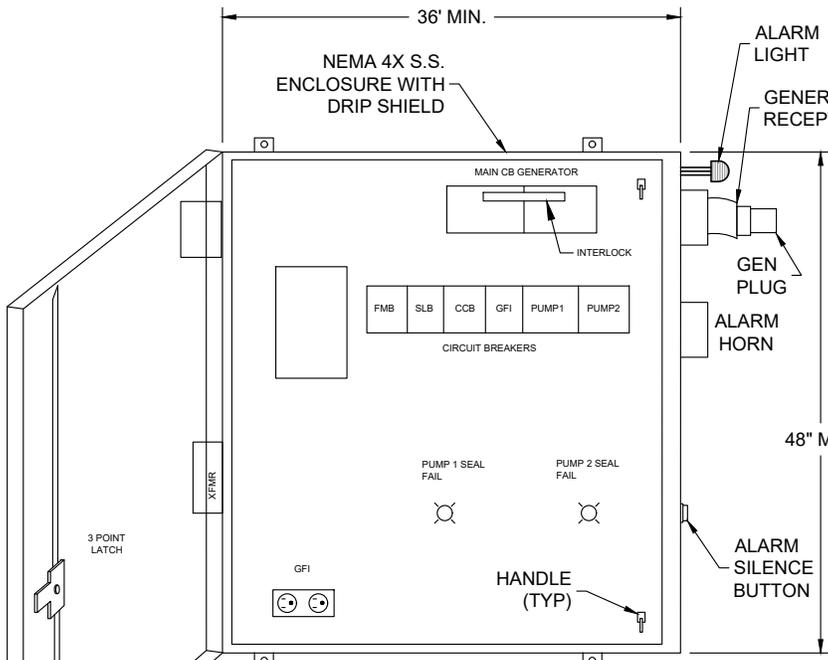
PANEL COMPONENTS

ENC	ENCLOSURE	HOFFMAN, A-48H3612SSLP
MCB	MAIN CIRCUIT BREAKER	SQ-D, FAL
GCB	GENERATOR CIRCUIT BREAKER	SQ-D, FAL
PCB	PUMP CIRCUIT BREAKER	SQ-D, FAL
CCB	CONTROL CIRCUIT BREAKER	SQ-D, QOU115
GFICB	GFI CIRCUIT BREAKER	SQ-D, QOU115
MS1,2	STARTER	FURNAS ESP-100
GR	GENERATOR RECEPTACLE	MELTRIC, DS200, 37-28043
AH	ALARM HORN	FEDERAL, 350-WB-120
AL	ALARM LIGHT	INGRAM, LRXB-40
F	FLASHER	INGRAM, FL-120-60
ASB	ALARM SILENCE BUTTON	SQ-D, 9001 SKR1BH5
GF1	CONVENIENCE RECEPTACLE	LEVITON, 6598-I
XFMR	TRANSFORMER	SQ-D, 7410 3S1F
F1,2	FUSES	BUSS, FNQ10
PM	PHASE MONITOR	DIVERSIFIED, SLA-440-ASA
TCU	TELEMETRY CONTROL UNIT	DATA FLOW, DFS TCU001
CB	CIRCUIT BREAKER	E-T-A, ETA-42-01
F4-7	FUSE AND HOLDER	WAGO, DFS-00271-003-9, 1AMP5B
47K	RESISTER BLOCK	WAGO, DFS-00271-003-1
TFS	TRANSIENT FILTER SHIELD	DATA FLOW TFS001-02
12VDC	BATTERY BACKUP	YUASA, NP2.6-12 12 VDC @ 2.6AM
SS1	480V SURGE SUPPRESSOR (TPS001)	DITEK, DTK-480-3CM
SS2	120V SURGE SUPPRESSOR (SPS001)	DITEK, DFS PN# 005-0061
TB1	TERMINAL BLOCK (24V)	IDEAL, 89-212
TB2	TERMINAL BLOCK (ALL OTHERS)	IDEAL, 89-212
SLB	SITE LIGHTING CIRCUIT BREAKER	SQ-D, QOU120
FMB	FLOW METER CIRCUIT BREAKER (RE-PUMP LIFT STATIONS ONLY)	SQ-D, QOU120
SL	SITE LIGHT	
LPC	LEVEL PROBE CONVERTER WITH RELAYS	MPE LPC420R
ISB	INTRINSICALLY SAFE BARRIER	MPE ISB10
SFR	SEAL FAIL RELAY	PER PUMP SUPPLIER
MTS	MOTOR THERMAL SWITCH	PER PUMP SUPPLIER



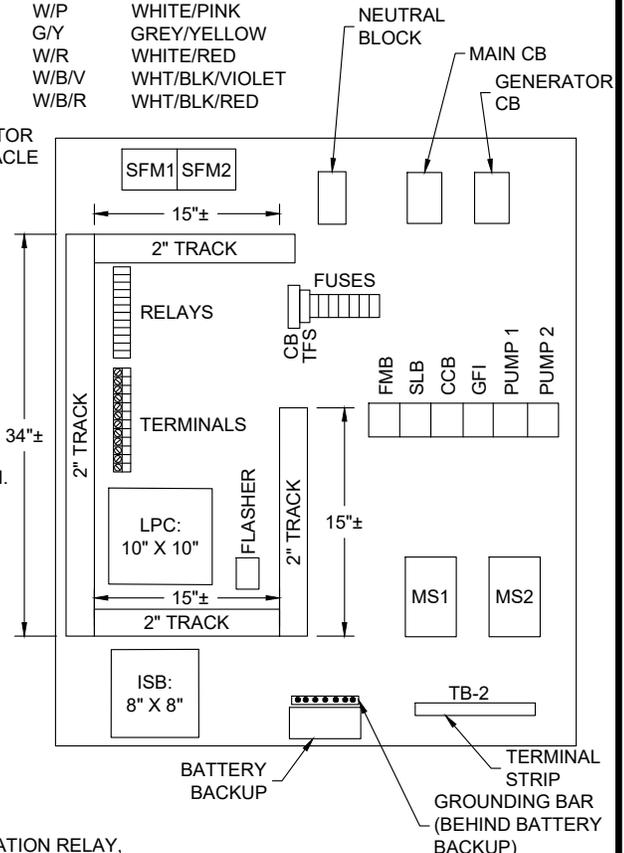
COLOR CODE

SYMBOL	COLOR
B	BLACK
W	WHITE
G	GREEN
BL	BLUE
R	RED
P	PINK
V	VIOLET
BR	BROWN
B/Y	BLACK/YELLOW
B/O	BLACK/ORANGE
B/R	BLACK/RED
B/V	BLACK/VIOLET
G/LP	GREY/LIGHT PINK
G/R	GREY/RED
G/BL	GREY/BLUE
G/BR	GREY/BROWN
W/P	WHITE/PINK
G/Y	GREY/YELLOW
W/R	WHITE/RED
W/B/V	WHT/BLK/VIOLET
W/B/R	WHT/BLK/RED



ENCLOSURE AND DEADFRONT LAYOUT

- NOTES:
1. OUTER BOX SIZE WILL BE A MINIMUM OF 30"W X 36"H X 12"D.
 2. DEAD FRONT DOOR SHALL HAVE A MINIMUM OF TWO LATCHES.
 3. THIS DETAIL IS FOR PUMPS LESS THAN 7.5 HP.
 4. SIZE 3 AND LARGER MOTOR STARTERS REQUIRE A STARTER COIL ISOLATION RELAY, SOFT START, OR VFD, PER FLOWRATE REQUIREMENTS.
 5. THE CONTROL TRANSFORMER SHALL BE MOUNTED ON THE EXTERIOR OF THE PANEL.
 6. THIS DRAWING IS DIAGRAMMATIC IN NATURE TO SHOW CONCEPT. SUPPLIER SHALL PROVIDE DETAILED SHOP DRAWINGS.



BACKPLATE LAYOUT

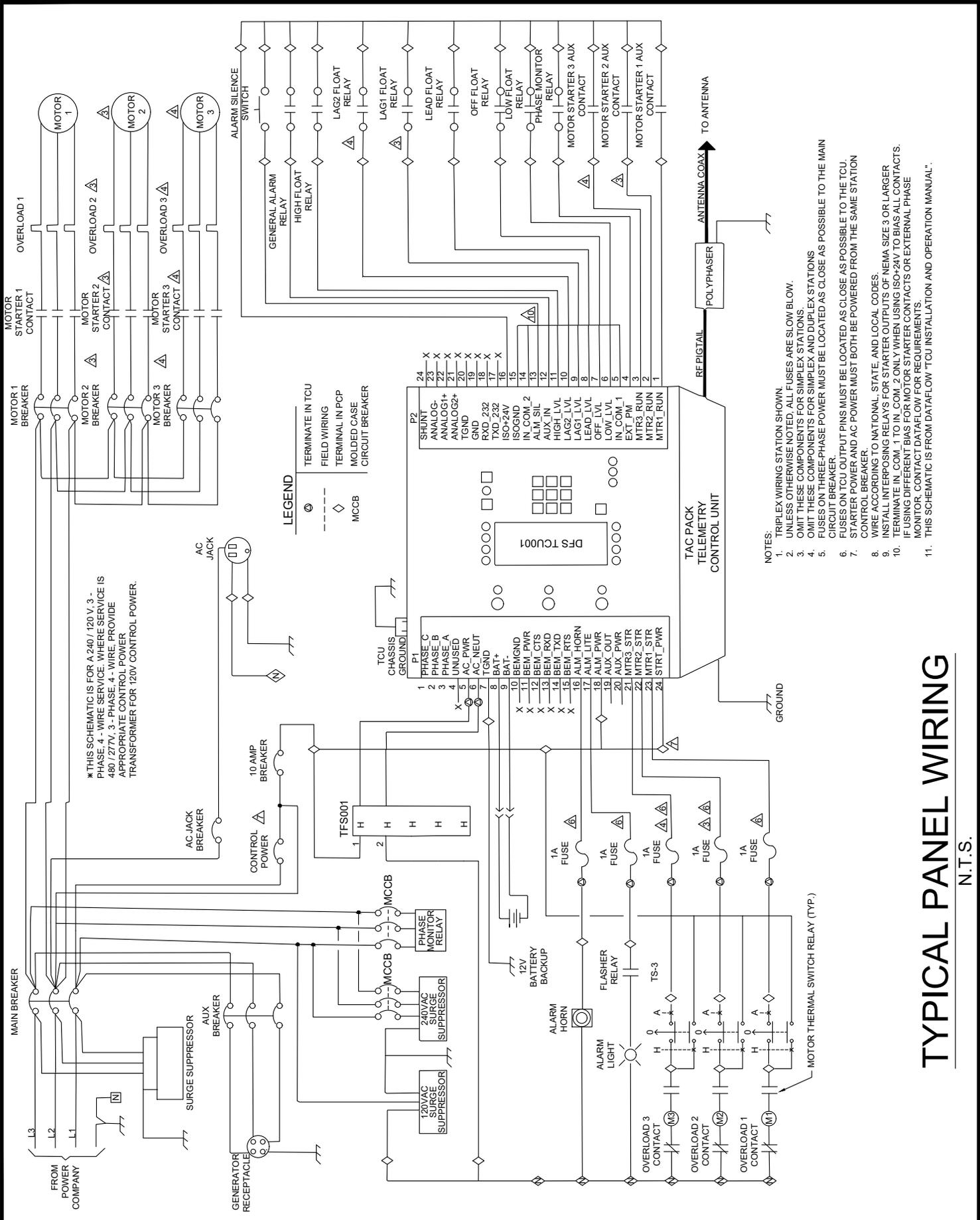
N.T.S.
* IDENTIFY INTRINSICALLY SAFE WIRING AND TERMINALS



TECHNICAL STANDARDS MANUAL

DUPLEX CONTROL PANEL ENCLOSURE DEAD FRONT LAYOUT TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN, FLORIDA

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DETAIL
LS-8



- NOTES:
1. TRIPLEX WIRING STATION SHOWN UNLESS OTHERWISE NOTED. ALL FUSES ARE SLOW BLOW.
 2. OMIT THESE COMPONENTS FOR SIMPLEX STATIONS.
 3. OMIT THESE COMPONENTS FOR SIMPLEX AND DUPLEX STATIONS.
 4. FUSES ON THREE-PHASE POWER MUST BE LOCATED AS CLOSE AS POSSIBLE TO THE MAIN CIRCUIT BREAKER.
 5. FUSES ON TCU OUTPUT PINS MUST BE LOCATED AS CLOSE AS POSSIBLE TO THE TCU CONTROL BREAKER.
 6. WIRE ACCORDING TO NATIONAL, STATE, AND LOCAL CODES.
 7. INSTALL INTERPOSING RELAYS FOR STARTER OUTPUTS OF NEMA SIZE 3 OR LARGER IF USING DIFFERENT BIAS FOR MOTOR STARTER CONTACTS OR EXTERNAL PHASE MONITOR. CONTACT DATAFLOW FOR REQUIREMENTS.
 8. MONITOR CONTACT DATAFLOW FOR REQUIREMENTS.
 9. THIS SCHEMATIC IS FROM DATAFLOW TCU INSTALLATION AND OPERATION MANUAL.

TYPICAL PANEL WIRING

N.T.S.



TECHNICAL STANDARDS MANUAL

DUPLEX CONTROL PANEL ENCLOSURE DEAD FRONT LAYOUT TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN, FLORIDA

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SHEET NO: LS-9
DETAIL
LS-9

SCOPE

THIS SCOPE COVERS THE FURNISHING, INSTALLATION, TESTING, ADJUSTING AND PLACING IN OPERATION ALL ELECTRICAL EQUIPMENT, DEVICES, FACILITIES, MATERIALS, AND AUXILIARY ITEMS NECESSARY FOR THE COMPLETE AND SUCCESSFUL OPERATION OF ALL ELECTRICAL EQUIPMENT AS HEREIN DESCRIBED, SHOWN ON THE PLANS, OR DEEMED NECESSARY FOR THE COMPLETION OF THE ELECTRICAL PORTION OF THE PROJECT. IT IS THE INTENT TO OUTLINE THE ELECTRICAL REQUIREMENTS OF THE CONTRACT IN ORDER TO PROVIDE THE INFORMATION NECESSARY FOR THE CONSTRUCTION OF A FULLY OPERATIONAL SYSTEM AS SHOWN ON THE PLANS AND AS HEREIN DESCRIBED. A COMPREHENSIVE ELECTRICAL SCOPE OF WORK IS AS FOLLOWS:

- LIFT STATION ELECTRICAL AND CONTROL SYSTEM DESIGN SIGNED AND SEALED BY FLORIDA LICENSED PROFESSIONAL ENGINEER
- POWER/ELECTRICAL SYSTEM
- ALARM MONITOR SYSTEM
- LIFT STATION ELECTRICAL
- UTILITY WORK
- CONNECTION OF ELECTRICALLY POWERED MECHANICAL EQUIPMENT
- TEMPORARY CONSTRUCTION POWER
- ALL INCIDENTALS NECESSARY FOR A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM.

WORKING CLEARANCES

WORKING CLEARANCES AROUND EQUIPMENT REQUIRING ELECTRICAL SERVICES SHALL BE VERIFIED BY CONTRACTOR TO COMPLY WITH CODE REQUIREMENTS. SHOULD THERE BE APPARENT VIOLATIONS OF CLEARANCES, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONNECTION OR PLACING OF EQUIPMENT.

IN THE CASE OF PANEL BOARDS, SAFETY SWITCHES AND OTHER EQUIPMENT REQUIRING WIRE AND CABLE TERMINATION'S, THE CONTRACTOR SHALL ASCERTAIN THAT LUG SIZES AND WIRING GUTTERS OR SPACE ALLOWED FOR PROPER ACCOMMODATION AND TERMINATION OF THE WIRES AND CABLES ARE ADEQUATE.

WORKMANSHIP

ALL WORK SHALL BE ACCOMPLISHED BY PERSONS SKILLED IN PERFORMANCE OF THE REQUIRED TASK. ALL WORK SHALL BE DONE IN KEEPING WITH CONVENTIONS OF THE TRADE. WORK OF THIS DIVISION SHALL BE CLOSELY COORDINATED WITH WORK OF OTHER TRADES TO AVOID CONFLICT AND INTERFERENCE.

ALL CONDUCTORS INSIDE THE LIFT STATION ENCLOSURE SHALL BE IDENTIFIED WITH STANDARD VINYL-CLOTH SELF ADHESIVE CABLE/CONDUCTOR MARKERS OF WRAP-AROUND TYPE. MARKERS SHALL BE PLASTIC COATED AND PRE-NUMBERED TO SHOW CIRCUIT IDENTIFICATION. WRITE-ON TYPE MARKERS WILL NOT BE ACCEPTED. CONDUCTORS AND CABLES IN MANHOLES AND HANDHOLES SHALL BE IDENTIFIED BY BRASS TAGS WITH DIE STAMPED LETTERING.

UTILITIES

ARRANGE WITH POWER COMPANY FOR THE SERVICES AND INSTALL THE SERVICES IN ACCORDANCE WITH THEIR REQUIREMENTS, REGULATIONS AND RECOMMENDATIONS. INSURE THAT 230V, 3 PHASE IS AVAILABLE FROM UTILITY. COORDINATE WITH POWER COMPANY THE LOCATION OF THE UTILITY POINT OF CONNECTION. CONTRACTOR IS RESPONSIBLE FOR RISER AND WEATHERHEAD WHERE UNDERGROUND SERVICE IS NOT AVAILABLE.

ARRANGE WITH TELEPHONE COMPANY FOR THE SERVICES AND INSTALL THE SERVICES IN ACCORDANCE WITH THEIR REQUIREMENTS, REGULATIONS AND RECOMMENDATIONS.

GUARANTEE

THE CONTRACTOR SHALL GUARANTEE ALL OTHER ELECTRICAL SYSTEMS, MATERIALS AND WORKMANSHIP TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE. HE SHALL CORRECT ALL DEFECTS ARISING WITHIN THIS PERIOD UPON NOTIFICATION BY THE OWNER OR ENGINEER, WITHOUT ADDITIONAL COMPENSATION.

MATERIAL STANDARDS

MATERIAL SHALL BE NEW AND COMPLY WITH STANDARDS OF UNDERWRITERS' LABORATORIES, INC., WHERE STANDARDS HAVE BEEN ESTABLISHED FOR THE PARTICULAR PRODUCT AND THE VARIOUS NEMA, ANSI, ASTM, IEEE, AEC, IPCEA OR OTHER PUBLICATIONS REFERENCED.

SUBMITTAL

SUBMIT SHOP DRAWING FOR APPROVAL BY THE OWNER AND ENGINEER. SHOP DRAWINGS AND PRODUCT DATA GROUPED TO INCLUDE COMPLETE SUBMITTAL OF RELATED SYSTEMS, PRODUCTS, AND ACCESSORIES IN A SINGLE SUBMITTAL. NO ELECTRICAL WORK MAY BE PERFORMED UNTIL ALL SHOP DRAWINGS ARE APPROVED. SUBMIT SHOP DRAWINGS ON THE FOLLOWING SYSTEMS AS GROUPED BELOW:

LIFT STATION ELECTRICAL AND CONTROL SYSTEM DESIGN

POWER/ELECTRICAL SYSTEM

- CONDUIT
- WIRE
- PULL BOXES
- BREAKERS
- DISCONNECTS
- FUSES
- SUPPORT SYSTEMS

LIFT STATION CONTROL SYSTEM

- PUMP CONTROLLER
- FLOATS
- H-O-A SWITCHES
- HOURL METERS
- NAME PLATES
- PUMP STARTERS (SOFT STARTERS WITH SHORTING CONTACTORS)
- CONTROL RELAYS
- CONTROL SCHEMATICS
- ALARM MONITOR SYSTEM (AUTODIALER OR CELLULAR RTU)

UTILITY WORK

- UTILITY COORDINATION INFORMATION
- UTILITY CONDUIT
- MARK DIMENSIONS AND VALUES IN UNITS TO MATCH THOSE SPECIFIED.



**TECHNICAL
STANDARDS
MANUAL**

**BASIC ELECTRICAL REQUIREMENTS
ENCLOSURE DEAD FRONT LAYOUT
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN, FLORIDA**

CAD FILE: 2025-LIFTSTATIONS.dwg
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SHEET NO: LS-10A
DETAIL
LS-10A

TEST EQUIPMENT

THE CONTRACTOR SHALL PROVIDE ALL TEST EQUIPMENT AND SUPPLIES DEEMED NECESSARY BY THE ENGINEER/INSPECTOR AT NO EXTRA COST TO THE OWNER. THESE SUPPLIES SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: VOLT METERS, AMP METERS, LIGHT METERS, FUEL, GENERATOR LOAD BANKS, WATT METERS, HARMONIC DISTORTION TEST EQUIPMENT, AND OSCILLOSCOPES.

REGULATORY REQUIREMENTS

CONFORM TO APPLICABLE SECTIONS OF THE BUILDING CODE FOR BAY COUNTY, FL AND ALL LOCAL RULES, REGULATIONS, AND ORDINANCES. ELECTRICAL: CONFORM TO CURRENT EDITION OF NFPA 70-NEC (NATIONAL ELECTRICAL CODE) STANDARDS. OBTAIN PERMITS, AND REQUEST INSPECTIONS FROM AUTHORITY HAVING JURISDICTION.

LIFT STATION ALARM MONITORING SYSTEM

FURNISH COMPLETE ALARM MONITORING SYSTEM CAPABLE OF SENDING NOTIFICATION USING AUTODIALER OR CELLULAR CONNECTION.

FINAL INSPECTION AND TESTING

THE ELECTRICAL WORK SHALL BE THOROUGHLY TESTED TO DEMONSTRATE THAT THE ENTIRE SYSTEM IS IN PROPER WORKING ORDER AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. EACH MOTOR WITH ITS CONTROL SHALL BE RUN AS NEARLY AS POSSIBLE UNDER OPERATING CONDITIONS FOR A SUFFICIENT LENGTH OF TIME TO DEMONSTRATE CORRECT ALIGNMENT, WIRING CAPACITY, SPEED AND SATISFACTORY OPERATION. ALL MAIN SWITCHES AND CIRCUIT BREAKERS SHALL BE OPERATED, BUT NOT NECESSARILY AT FULL LOAD. CONTRACTOR MAY BE REQUIRED DURING FINAL INSPECTION, AT THE REQUEST OF THE ENGINEER TO FURNISH TEST INSTRUMENTS FOR USE DURING THE TESTING.

ALL MAIN FEEDER CIRCUITS SHALL BE GIVEN A MEGGER TEST USING A 1000 VOLT MEGGER. THIS TEST SHALL BE PERFORMED AFTER CONDUCTORS ARE PULLED, BUT BEFORE FINAL CONNECTIONS ARE MADE. THE ENGINEER SHALL BE GIVEN TWO (2) DAYS' WRITTEN NOTICE OF THE ANTICIPATED TEST DATE SO THAT HE MAY WITNESS THE TEST IF SO DESIRED. IN ANY EVENT, THE CONTRACTOR SHALL RECORD THE CIRCUIT DESIGNATION AND THE MEGGER READING ON EACH PHASE. THIS WRITTEN RECORD SHALL BE SUBMITTED TO THE ENGINEER. THE COST OF THIS TEST OR ANY RETEST CAUSED BY INSUFFICIENT MEGGER READINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

AS-BUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE DETAILED AS-BUILT DRAWINGS FOR ALL WORK INDICATING ALL CONTROL AND POWER WIRING. THE AS-BUILT DRAWINGS SHALL ALSO INCLUDE DETAILED CONTROL SCHEMATICS FOR THE CONTROL SYSTEM.

SUPPORTING DEVICES

ALL SUPPORTING DEVICES SHALL BE STAINLESS STEEL OR ALUMINUM UNLESS OTHERWISE INDICATED. EQUIPMENT RACK POSTS SHALL BE A MINIMUM OF 3" DIAMETER ROUND OR 4" CHANNEL, AND SHALL BE CONSTRUCTED OF ALUMINUM OR STAINLESS STEEL WITH STAINLESS STEEL HARDWARE.

CONDUIT

ALL CONDUIT BELOW GRADE SHALL BE SCH. 40 PVC. ALL EXPOSED CONDUIT SHALL BE ALUMINUM. ALL CONDUIT SUPPORTS SHALL BE STAINLESS STEEL OR ALUMINUM. ALL CONDUIT SHALL BE SIZED PER THE NEC.

WIRE

THE CONDUCTOR SIZES SHOWN ON THE DRAWINGS ARE BASED ON THHN COPPER CONDUCTORS. CONDUCTOR AMPACITY HAS BEEN SELECTED BASED ON 75 DEG. C TEMPERATURE RATING. INSURE THAT ALL TERMINATION PROVISIONS ARE SUITABLE FOR 75 DEG. C RATED CONDUCTORS.

DISCONNECT SWITCHES

ALL DISCONNECT SWITCHES SHALL BE 200 KAIC FUSED DISCONNECT SWITCHES. ALL SWITCHES SHALL BE NEMA 4X STAINLESS STEEL. FUSES SHALL BE CLASS J OR R, DUAL ELEMENT TIME DELAY UNLESS OTHERWISE NOTED. TERMINATION PROVISIONS SHALL BE LISTED FOR USE WITH FOR 75 DEG C RATED CONDUCTORS.

GROUNDING & BONDING

ALL CONDUIT RUNS SHALL HAVE A GREEN GROUNDING CONDUCTOR SIZED PER NEC. GROUNDING ELECTRODE SYSTEM SHALL HAVE A MAXIMUM RESISTANCE OF 25 OHMS. ALL GROUNDING AND BONDING SHALL COMPLY WITH THE 2011 NEC.

SHORT CIRCUIT CURRENT RATINGS

THE SHORT CIRCUIT AT THE SECONDARY TERMINALS OF THE UTILITY TRANSFORMER IS CALCULATED TO BE NO GREATER THAN 16.5KA BASED ON A UTILITY TRANSFORMER NO LARGER THAN 100KVA WITH AN IMPEDANCE NOT LESS THAN 1.5%. IF THE TRANSFORMER(S) IS LARGER, OR THE IMPEDANCE LOWER, PLEASE CONTACT THE ENGINEER FOR EVALUATION. PROVIDE EQUIPMENT ADEQUATELY RATED FOR THIS FAULT CURRENT.

LIGHTNING PROTECTION SYSTEM

TO SAFEGUARD SENSITIVE ELECTRICAL AND ELECTRONIC COMPONENTS FROM TRANSIENT OVER VOLTAGES CAUSED BY LIGHTNING STRIKES AND POWER SURGES. THE LIGHTNING PROTECTION SYSTEM SHALL INCLUDE THE FOLLOWING COMPONENTS: SURGE PROTECTION DEVICES (SPDS), ENCLOSURE PROTECTION OF ELECTRICAL EQUIPMENT IN THE PROPER RATED NEMA 4X FOR OUTDOOR, AND USE OF PROPER EQUIPMENT BONDING AND GROUNDING.

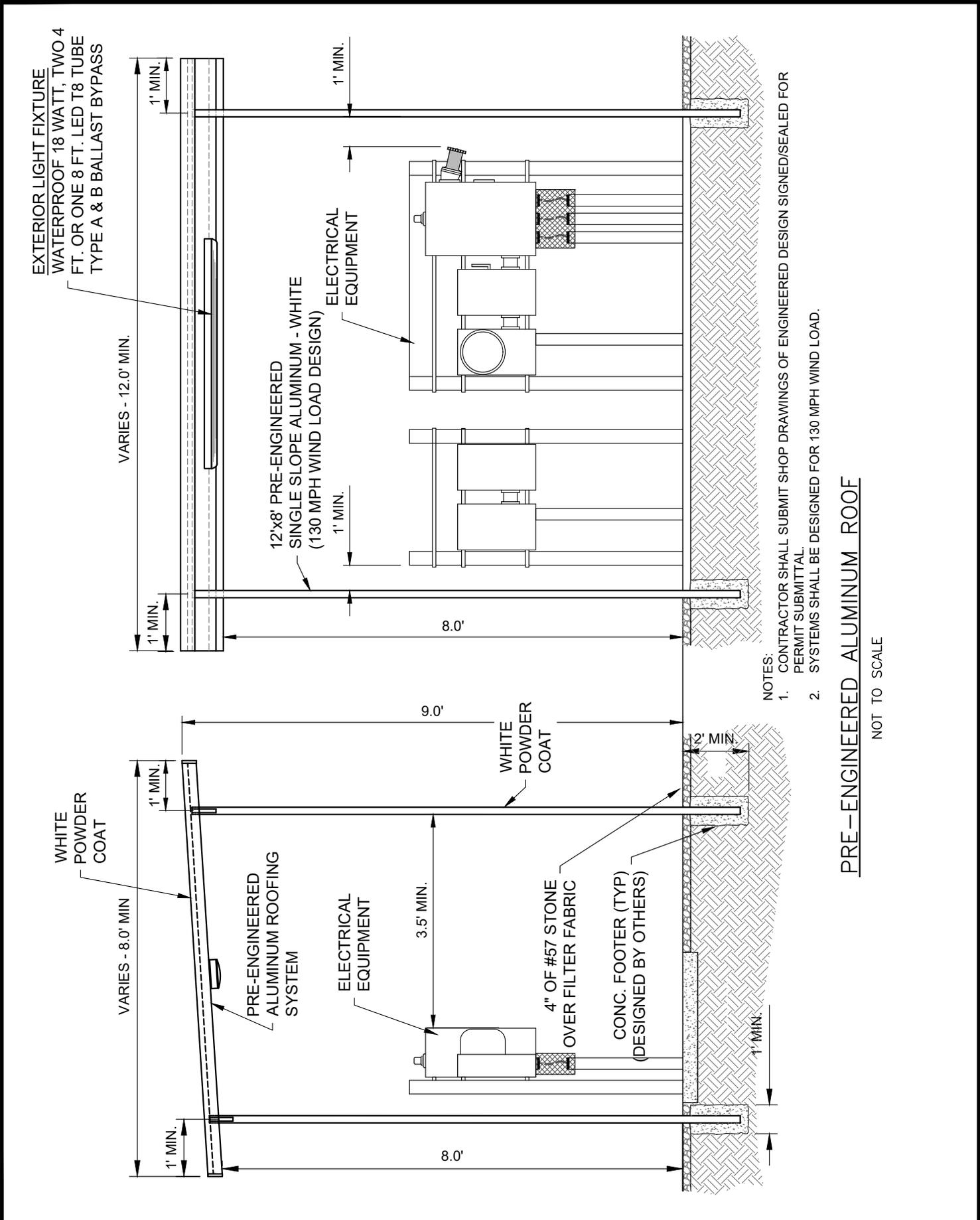
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TECHNICAL STANDARDS MANUAL

**BASIC ELECTRICAL REQ'S CONT.
ENCLOSURE DEAD FRONT LAYOUT
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN, FLORIDA**

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LS-10B



- NOTES:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ENGINEERED DESIGN SIGNED/SEALED FOR PERMIT SUBMITTAL.
 2. SYSTEMS SHALL BE DESIGNED FOR 130 MPH WIND LOAD.

PRE-ENGINEERED ALUMINUM ROOF

NOT TO SCALE



TECHNICAL
STANDARDS
MANUAL

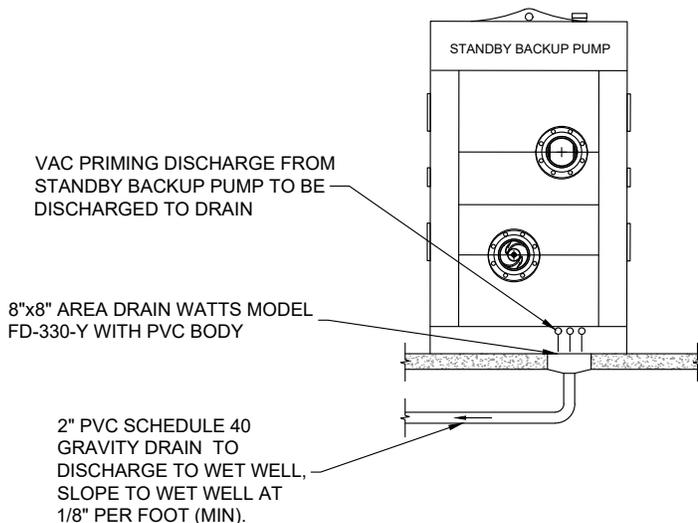
PRE-ENGINEERED ALUMINUM CANOPY

TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN, FLORIDA

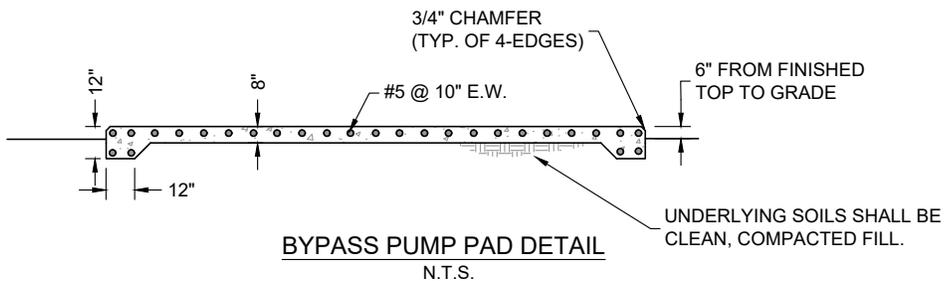
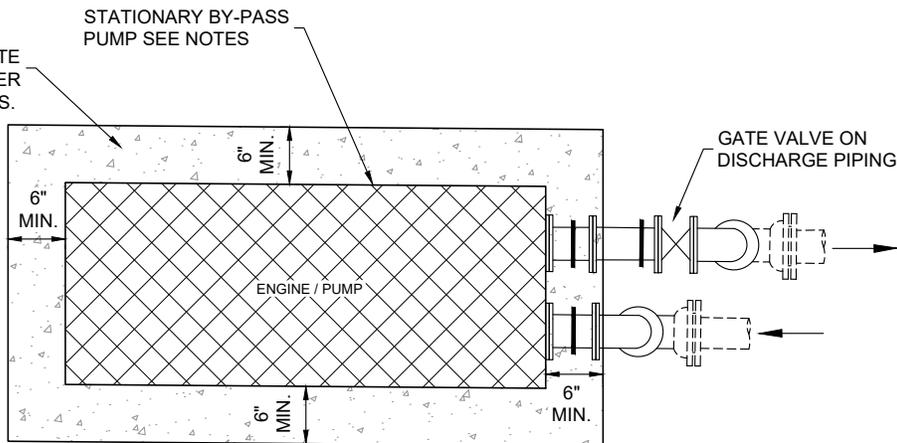
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SHEET NO: LS-11
DETAIL
LS-11

STANDBY BYPASS PUMP NOTES:

1. A STATIONARY BYPASS PUMP, SIZED TO ACCOMMODATE THE PEAK FLOW COMING INTO THE PUMP STATION, SHALL BE INCLUDED FOR ALL NEW PUMP STATIONS UNLESS OTHERWISE NOTED.
2. THE BYPASS PUMP SHALL BE MANUFACTURED BY BBA, GLOBAL, GODWIN, OR APPROVED EQUAL.
3. THE BYPASS PUMP SHALL HAVE AN INTEGRAL FUEL TANK WITH A CAPACITY TO PROVIDE 48 HOURS OF UNINTERRUPTED SERVICE.
4. A SOUND DEADENING ENCLOSURE SHALL BE PROVIDED FOR THE PUMP.
5. AN ELECTRONIC CONTROLLER, FLOATS, AND A SCADA CONNECTION SHALL BE PROVIDED WITH THE BYPASS PUMPING SYSTEM
6. BYPASS PUMP PIPING SHALL INCLUDE MERCER SERIES 450 EXPANSION JOINTS WITH TIE RODS OUTSIDE THE PUMP ON BOTH THE INTAKE AND DISCHARGE LINES.
7. INCLUDE A GATE VALVE AND A CHECK VALVE ON THE DISCHARGE PIPING AT THE BYPASS PUMP.



3000 PSI CONCRETE PAD. CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURER FOR CONCRETE PAD DIMENSIONS.

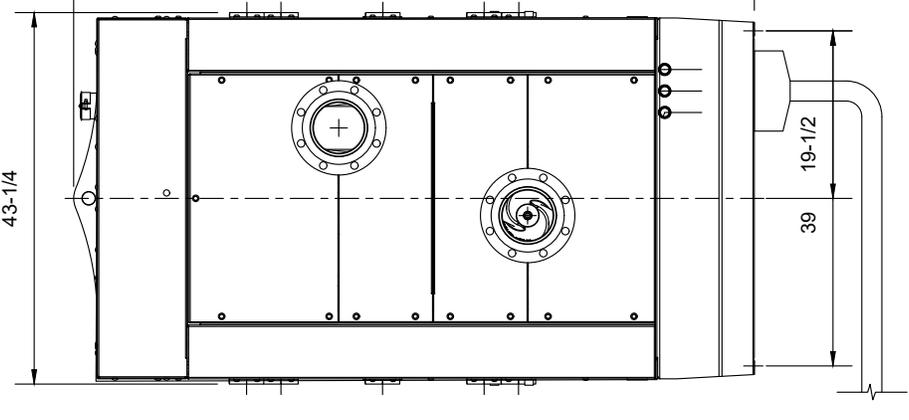
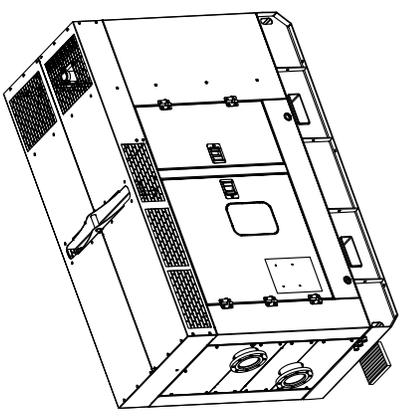
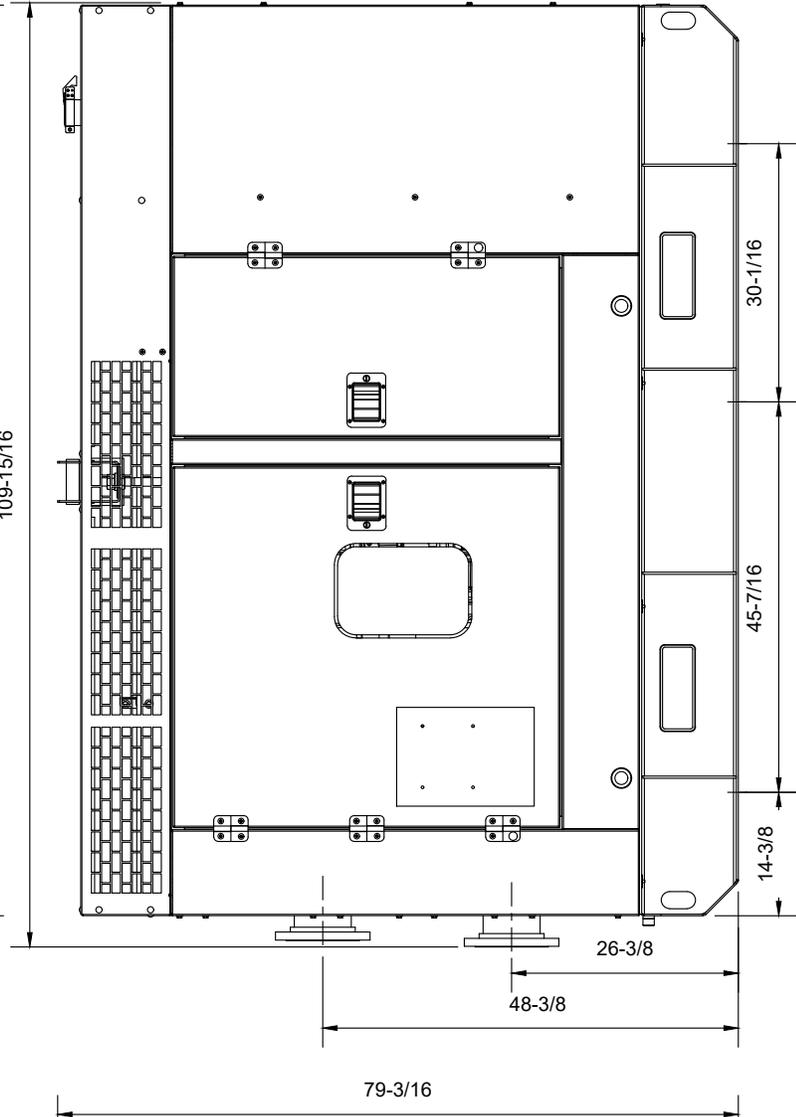
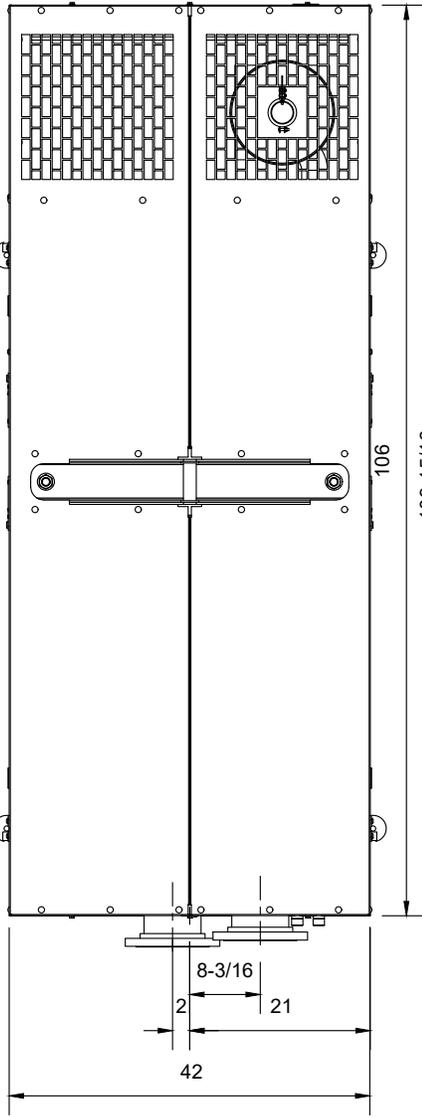


TECHNICAL STANDARDS MANUAL

BY-PASS PUMP DETAILS

TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN, FLORIDA

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DATE: OCTOBER 2025
SHEET NO: LS-12
DETAIL
LS-12



- NOTES:
1. ALL DIMENSIONS ARE IN INCHES.
 2. DRAWING IS NOT TO SCALE.
 3. CONSULT FACTORY FOR CERTIFIED DIMENSIONS.
 4. SUCTION FLANGE: 6"/150# ANSI RF.
 5. DISCHARGE FLANGE: 6"/150# ANSI RF.

BACK UP PUMP DETAIL

N.T.S.

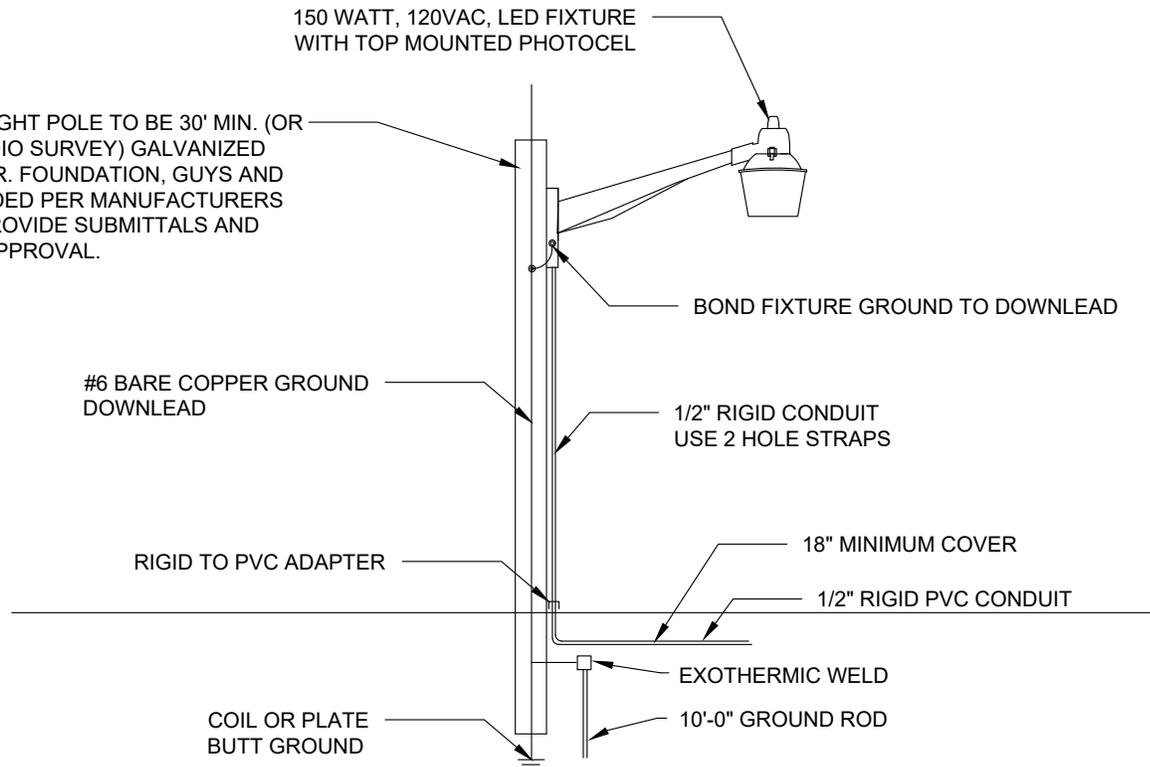


TECHNICAL
STANDARDS
MANUAL

BACK UP PANEL DETAIL
TECHNICAL STANDARDS MANUAL
CITY OF LYNN HAVEN, FLORIDA

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SHEET NO: LS-13
DETAIL
LS-13

SCADA ANTENNA AND LIGHT POLE TO BE 30' MIN. (OR AS DETERMINED BY RADIO SURVEY) GALVANIZED STEEL ROHN 25G TOWER. FOUNDATION, GUYS AND ANCHORS TO BE PROVIDED PER MANUFACTURERS RECOMMENDATIONS. PROVIDE SUBMITTALS AND SHOP DRAWINGS FOR APPROVAL.



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