1. THIS LEGEND IS FOR REFERENCE ONLY.

2. ALL SYMBOLS WITHIN THIS LEGEND MAY NOT APPLY TO THIS PROJECT.

PLUMBING ABBREVIATIONS

| (D) | DEMOLITION |
|-----------|---------------------------------------|
| (E) | EXISTING |
| (R) | RELOCATED |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| APPROX | APPROXIMATE |
| BFF | BELOW FINISHED FLOOR |
| BFP | BACKFLOW PREVENTER |
| CA | COMPRESSED AIR |
| CAP | CAPACITY |
| CO | |
| | CLEAN OUT |
| COND | CONDENSATE |
| CONN | CONNECTION |
| CONT | CONTINUATION |
| D | DRAIN |
| DCW | DOMESTIC COLD WATER |
| DEG | DEGREES |
| DEMO | DEMOLITION |
| DIA | DIAMETER |
| DN | DOWN |
| DS | DOWNSPOUT |
| DWG | DRAWING |
| EA | EACH |
| EEW | EMERGENCY EYE/FACE WASH |
| ENT | ENTERING |
| ESS | EMERGENCY SAFETY SHOWER |
| ET | EXPANSION TANK |
| F | FAHRENHEIT |
| FCO | FLOOR CLEAN OUT |
| FD | FLOOR DRAIN |
| FH | FIRE HYDRANT |
| FM | FLOW METER |
| FPH | FREEZE PROOF HYDRANT |
| FPM | FEET PER MINUTE |
| GAL | GALLONS |
| | GARBAGE DISPOSAL |
| GD | · · · · · · · · · · · · · · · · · · · |
| GM | GAS METER |
| GPM | GALLONS PER MINUTE |
| GWH | GAS WATER HEATER |
| HB | HOSE BIBB |
| HD | HEAD |
| НО | HUB OUTLET |
| HP | HORSEPOWER |
| HW | HOT WATER |
| HWR | HOT WATER RETURN |
| ID | INSIDE DIAMETER/DIMENSION |
| ΙE | INVERT ELEVATION |
| IMVB | ICE MAKER VALVE BOX |
| IN | INCH |
| IW | INDUSTRIAL WASTE |
| IWH | INSTANTANEOUS WATER HEATER |
| LAV | LAVATORY |
| М | METER |
| MAX | MAXIMUM |
| MEZZ | MEZZANINE |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| N/A | NOT APPLICABLE |
| N/A NG | NOT APPLICABLE |

NG

NTS

OD

NATURAL GAS

NOT TO SCALE

NON-POTABLE WATER

PRESSURE CONTROL VALVE

OUTSIDE DIAMETER

PRESSURE DROP PRESSURE GAUGE

| PRV | PRESSURE REDUCING VALVE |
|------|------------------------------------|
| PSI | POUNDS PER SQUARE INCH |
| PVC | POLYVINYL CHLORIDE |
| PW | POTABLE WATER |
| R | RADIUS |
| RD | ROOF DRAIN |
| RP | RECIRCULATION PUMP |
| RPBP | REDUCED PRESSURE BACKFLOW PREVENTE |
| RPM | REVOLUTIONS PER MINUTE |
| SAN | SANITARY SEWER PIPING |
| SK | SINK |
| SP | SUMP PUMP |
| SPEC | SPECIFICATION |
| STD | STANDARD |
| STO | STORM |
| SW | SERVICE WATER |
| TBD | TO BE DETERMINED |
| TCV | TEMPERING VALVE |
| TD | TRENCH DRAIN |
| TEMP | TEMPERATURE |
| TMV | THERMOSTATIC MIXING VALVE |
| TP | TRAP PRIMER |
| TW | TEPID WATER |
| TYP | TYPICAL |
| UR | URINAL |
| V | VENT |
| VIF | VERIFY IN FIELD |

VENT STACK

VENT THRU ROOF WASHER BOX

WATER CLOSET

WATER GAUGE

WALL CLEAN OUT

WATER PRESSURE DROP

VS

VTR

WCO

WG

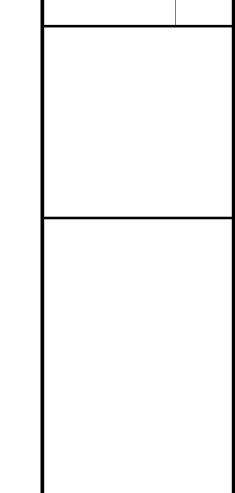
PLUMBING GENERAL NOTES

GENERAL NOTES

- 1. THESE GENERAL NOTES APPLY TO ALL SHEETS. REFER TO INDIVIDUAL SHEETS FOR SHEET NOTES.
- 2. CONTRACT DOCUMENT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. DO NOT SCALE FOR MATERIAL QUANTITIES. ALL SCALING SHOULD BE REFERENCED TO ARCHITECTURAL PLANS ONLY.
- 3. ALL EQUIPMENT AND PIPING SHALL BE INSTALLED IN COMPLIANCE WITH THE LATEST APPLICABLE EDITION OF THE MICHIGAN PLUMBING CODE, LOCAL UTILITIES, AND UFC'S.
- 4. WATER LINES SHALL NOT BE ROUTED ABOVE ANY ELECTRICAL ROOMS, ELECTRICAL PANELS, OR TELEPHONE ROOMS.
- 5. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO MINIMIZE SPATIAL CONFLICTS.
- 6. INSTALL BOTTOM OF ALL EXTERIOR AND INTERIOR WALL HYDRANTS AT 24" ABOVE FINISH GRADE.
- 7. CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS BEFORE CONSTRUCTION BEGINS.
- 8. PROVIDE ISOLATION VALVES AT ALL PIPE CONNECTIONS TO EQUIPMENT.
- PROVIDE WALL PIPE PENETRATIONS AS REQUIRED WHERE PIPE ENTERS BUILDING. SLEEVE AND SEAL OPENING WITH CAULKING AND ESCUTCHEON FOR A WATER-TIGHT INSTALLATION.

FETRA TECH
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MARK DATE DESCRIPTION

1 9/15/23 ISSUED FOR BIDS

| Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/23 ISSUED FOR BIDS | Page 1/15/

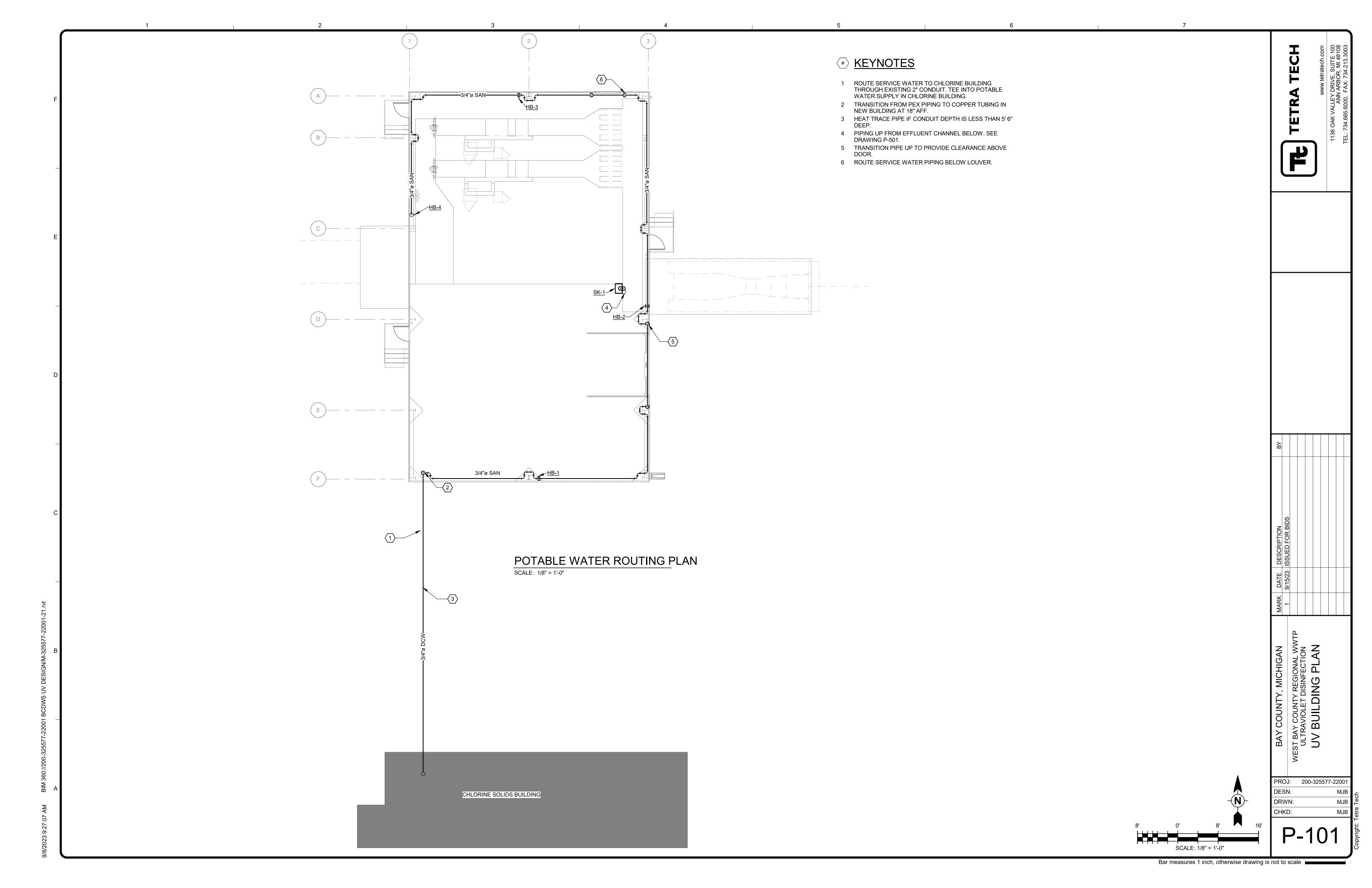
3AY COUNTY REGIONAL WWTP
TRAVIOLET DISINFECTION
LEGEND

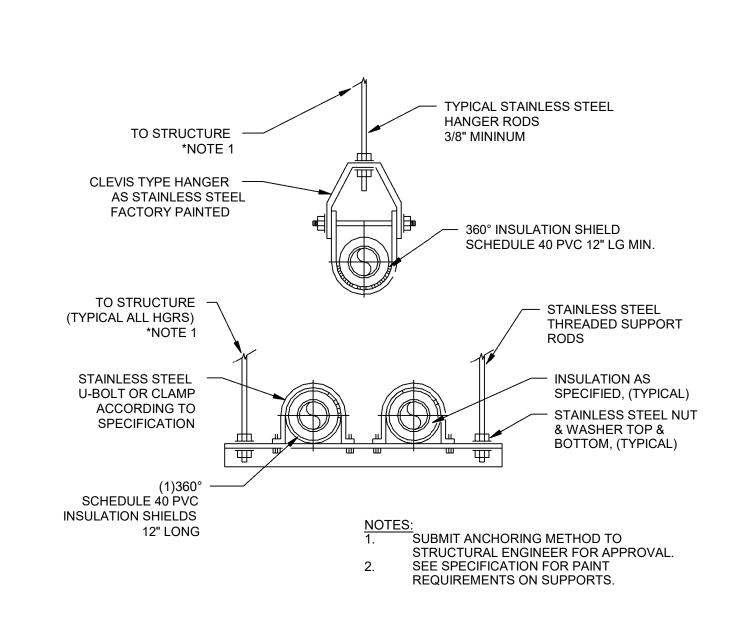
BAY COUNTY, MICHIGAN

PROJ: 200-325577-22001
DESN: MJE
DRWN: MJE

CHKD:

P-001





1 PIPE HANGER DETAIL

P-501 | SCALE: NTS

FASTENERS

LOAD BEARING PIPE 5" THRU 8"

LOAD BEARING PIPE CLAMP

(TYP)

CHANNEL FRAMING

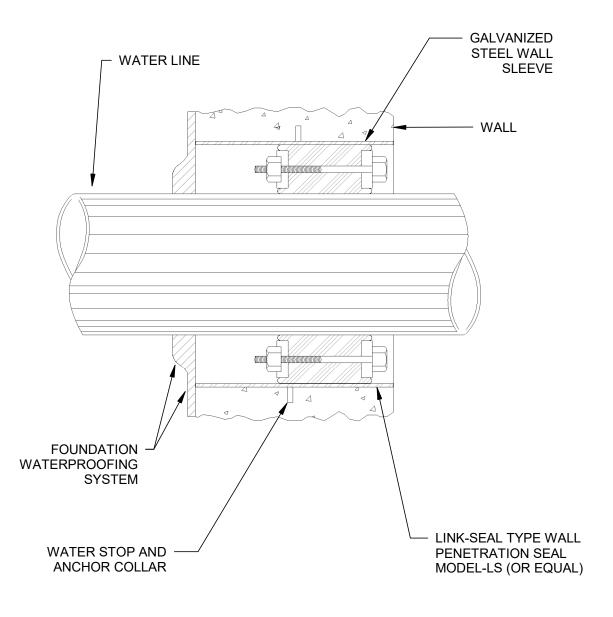
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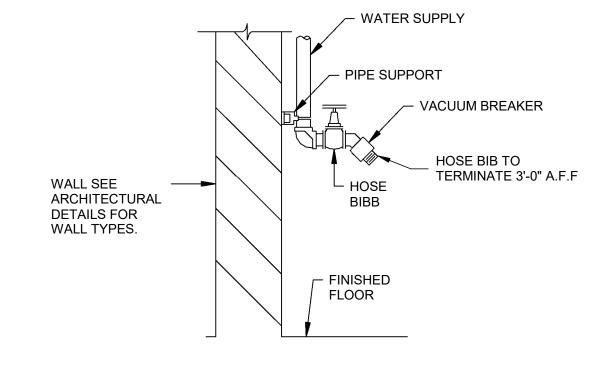
1. SEE DRAWINGS FOR TYPE, SIZE, AND QUANTITY OF SUPPORTED PIPES.

2. ALL FRAMING AND PIPE SUPPORT MATERIALS SHALL 316 SST (UNISTRUT)

OR EQUAL FOR EXTERIOR).

WALL, SEE
ARCHITECTURAL
DETAILS FOR
WALL TYPES.





P-501 SCALE: NTS

3" MIN CLEARANCE EACH END

3" MIN WALL TO WALL SEPARATION

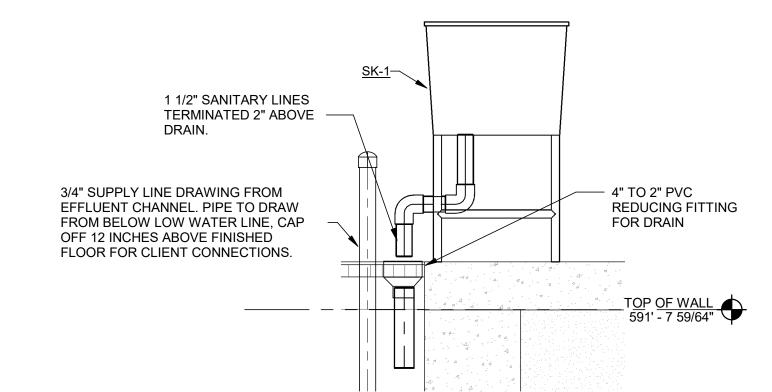
, FOR PIPE <u><</u> 4"

FOUNDATION WALL PIPE

3 PENETRATION

P-501 SCALE: N.T.S.

4 INTERIOR HOSE BIBB DETAIL
P-501 SCALE: NTS





| | PLUMBING FIXT | URE SCHEDUL | .E | | | |
|--------|---------------|--------------------|----------|-----------|--------|-------|
| MARK | DESCRIPTION | MANUFACTURER | MODEL | CONNECTIO | NOTES | |
| MAIXIX | DEGGINI HON | MANOI AGIONEN | WODLL | CW | WASTE | NOTES |
| HB-1 | HOSE BIB | ZURN | Z1341XL | 3/4" | - | |
| SK-1 | SERVICE SINK | JUST MANUFACTURING | NSFB-124 | 3/4" | 1 1/2" | |

HB-# REPRESENTS THE NUMBER OF HOSEBIBS SERVED.

BAY COUNTY, MICHIGAN

WEST BAY COUNTY REGIONAL WWTP

ULTRAVIOLET DISINFECTION

ULTRAVIOLET DISINFECTION

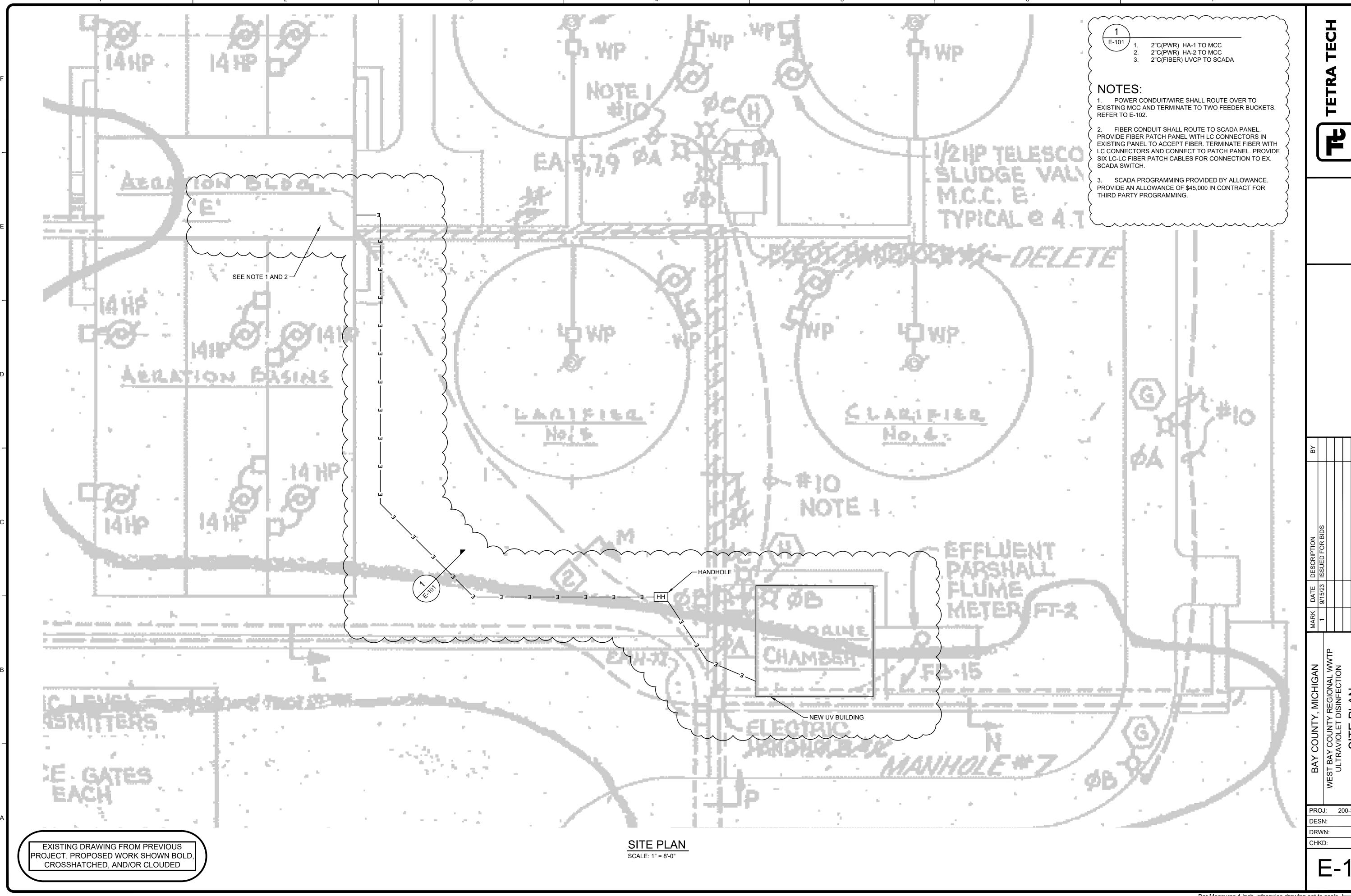
DETAILS AND SCHEDULES

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TECH

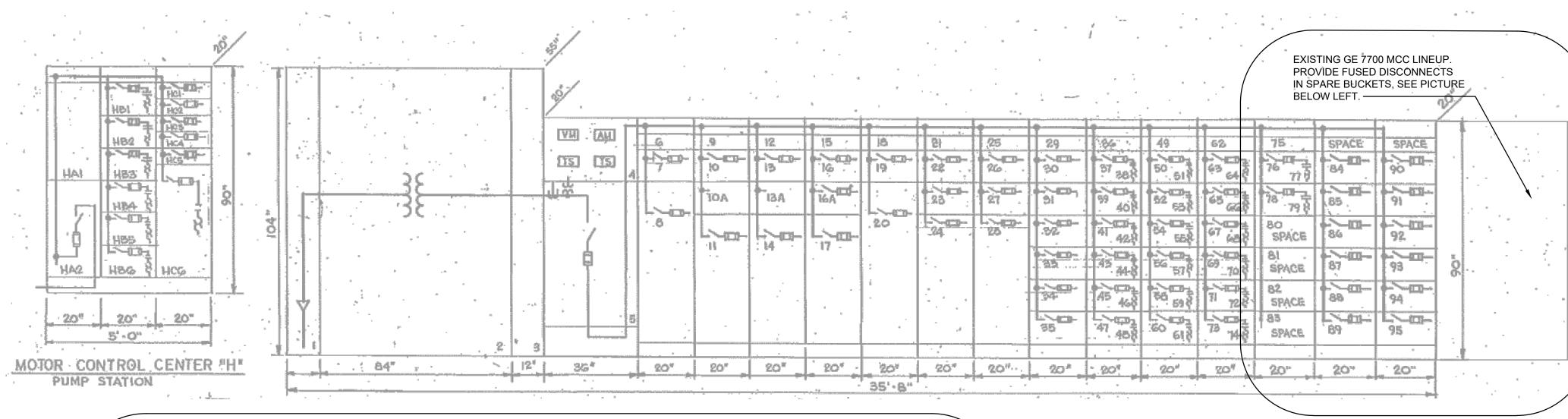
| BACKGROUND PLAN AND ONE LINE SYMBOLS | GRAPHIC SYMBOL FOR INSTRUMENTATION ITEMS | | I.S.A. STANDAR | D LETTER FUNCTIONS | GRAPHIC SYMBOLS | FOR VALVES |
|---|--|----------------|--|--|--|---------------------------------------|
| SYMBOL DESCRIPTION | SYMBOL DESCRIPTION | SYMBOL | FIRST LETTER | SUCCEEDING LETTERS | SYMBOL DESC | RIPTION |
| CONTROL SWITCH (SEL. OR P.B.) SEE CIRCUITS FOR SPECIFIC TYPE | DELVIOR MOUNTED ON DANIE! | A ANA B BUR | ALYSIS, ANALOG RNER, FLAME | ALARM BATCH | STROKE OR POSITION ACTUATOR CYLI | |
| F FL SEE CIRCUITS FOR SPECIFIC TYPE FLOAT SWITCH - FLOW SWITCH | DEVICE MOUNTED ON PANEL | C CON | NDUCTIVITY, COMMAND NSITY, SPECIFIC GRAVITY | CONTROL (FEEDBACK TYPE) | STROKE OR POSITION ACTUATOR CYLII | |
| T M TEMPERATURE - HUMIDISTAT SWITCH (SUBSCRIPT=NO. OF STAGES) | | E VOL | LTAGÉ | PRIMARY ELEMENT | | <u> </u> |
| L P V S LIMIT (PROXIMITY TYPE) PRESSURE - VACUUM - TORQUE SWITCH | BOARD OR PANEL MOUNTED DEVICE - DEVICE MOUNTED INSIDE PANEL | G GAG | OW RATE GING | RATIO GLASS | PNEUMATIC DIAPHRAGM OR POSITIONE | · |
| ELECTRICAL OR MECHANICAL ALTERNATOR (SEE WIRING) | | | ND, MANUAL RRENT | HIGH INDICATE | PNEUMATIC DIAPHRAGM OR POSITIONE | ER (THROTTLING) |
| OS OVERLOAD SWITCH OR DEVICE | FIELD OR LOCALLY MOUNTED DEVICE | J POV | WER IE. TIME SCHEDULE | SCAN CONTROL (NO FEEDBACK) | D≪I BALL VALVE | |
| TB TERMINAL BOX | | L LEV | /ÉL, LIGHT | LOW | GLOBE VALVE | |
| SOLENOID VALVE | | M MOI | ISTURE, HUMIDITY | MIDDLE, MODULATE | GATE VALVE OR KNIFE GATE CHECK VALVE | |
| PHOTOCELL LINE VOLTAGE | PROGRAMMED FUNCTION NOT NORMALLY ACCESSIBLE TO OPERATOR | O OVE | ERLOAD ESSURE, VACUUM | ORIFICE POINT | PLUG VALVE | |
| AS NOTED (LIGHTING PANEL, CONTROL PANEL, DISTRIBUTION PANEL, ETC.) WALL MOUNTED | | Q QUA | ANTITY | TOTALIZE, INTEGRATE | NOTE: THE PLC I/O ADDRESS SHALL BE USED AS THE | WIRING TAG SCHEME FOR ALL PANEL |
| JB JUNCTION BOX | PROGRAMMED FUNCTION ACCESSIBLE THROUGH OPERATOR'S INTERFACE DEVICE | R RAD | DIOACTIVITY EED, FREQUENCY, SOLENOID | RECORD, PRINT, RECEIVE | AND FIELD CONTROL WIRING. COORDINATE WITH EL | ECTRICAL CONTRACTOR. |
| TRANSFORMER | | T TEM | MPERATURE, TURBIDITY LTIVARIABLE | SWITCH TRANSMIT, TRANSFORM | WIRING DEVICE S | SCHEDULE |
| CONDUIT WITH CONDUIT SEAL FITTING | PLC INPUT OR OUTPUT POINT | V VIBF | RATION, VISCOSITY | MULTIFUNCTION VALVE, DAMPER, LOUVER | SYMBOL DESCRIPTION | NEMA TYPE |
| ———— CONDUIT EXPOSED | INTERLOCIONO | W WEI | IGHT, FORCE | | 125V, 2P, DUPLEX, 3W | 5-20 R |
| ———— CONDUIT CONCEALED | INTERLOCKING | Y 7 DOS | SITION | RELAY, COMPUTE DRIVE, ACTUATE | SIMPLEX RECEPTACLE | |
| —— E——— DIRECT BURIED CONDUIT | MOTOR STARTER | | | PILOT DEVICE LEGEND | QUAD RECEPTACLE | |
| — UG — DIRECT BURIED CABLE | | | | | 1 9 | |
| OVERHEAD LINE | FLOAT SWITCH | SYMBOL | DESCRIPTION | SYMBOL DESCRIPTION | 20A, 120/277V SWITCH | SPST |
| — DB — UNDERGROUND DUCT BANK | | | PRESS. ACTUATED SWITCH | FLOAT ACTUATED SWITCH | NOTES: | |
| CONCRETE ENCASED DUCT BANK WITH CABLE LOCATIONS, AND SPARE DUCTS AS | OFF PAGE CONNECTOR | 0 | | Ó | 1. FOR ITEMS INDICATED AS "FIELD LOCATE", CHECK T | THE DRAWINGS OF OTHER TRADES FOR |
| 456 INDICATED ON DRAWINGS | | | EL OVALA CITUA TER OVALITOUR | TEMP. ACTUATED SWITCH | INTERFERENCE AND FOR LOCATIONS OF MOUNTING F | |
| CABLE REEL | PROCESS MACHINERY MOTOR | | FLOW ACTUATED SWITCH | TEMP. ACTUATED SWITCH | 2. INSTALL A SINGLE CONDUCTOR INSULATED (RHW, | THHN OR XHHW) COPPER GROUND WIR |
| ——EDB—— EXISTING UNDERGROUND DUCT BANK | IN-FLOW ELEMENT (PROPELLER TYPE) | 00 | LIMIT SWITCH - | LIMIT SWITCH - | IN EACH CONDUIT, SIZE AS SHOWN ON DRAWINGS, OF | R AS A MINIMUM PER THE NATIONAL |
| MULTI-STACK ALARM LIGHTS | | | NORMALLY OPEN LIMIT SWITCH - NORMALLY | LIMIT SWITCH - NORMALLY | ELECTRICAL CODE. THIS GROUND WIRE SHALL BE CO EQUIPMENT GROUND. THIS ALSO INCLUDES INSTRUM | |
| | IN-LINE FLOW ELEMENT (MAGNETIC TYPE) | | CLOSED - HELD OPEN | OPEN - HELD CLOSED | PRESSURE, FLOW TRANSMITTERS, LIMIT SWITCHES, (| , |
| SELECTOR SWITCH / PUSHBUTTON. FUNCTIONS AS SHOWN IN WIRING DIAGRAMS | | 070 | LATCHING CABLE SWITCH | TIME DELAY FUSE | 3. THE FOLLOWING EXAMPLE COMPONENT IDENTIFICATION (COMPONENT IDENTIFICATION) | ATION SHALL BE LISED AS APPROPRIATE |
| LOW VOLTAGE DISCONNECT SWITCH | ─ | 0 1 0 | MOMENTARY PUSHBUTTON OPERATOR-NORMALLY CLOSED | O T O PUSHBUTTON OPERATOR WITH MUSHROOM HEAD | | |
| LOW VOLTAGE FUSE (BELOW 600V) | | | MOMENTARY PUSHBUTTON | O I O FIELD LOCATED STOP | (F) FIELD MOUNTED, NOT AT STARTER OR OTHER CO (S) STARTER PANEL MOUNTED | ONTROL PANELS |
| 1 DV ALL STARTERS SHALL BE FULL VOLTAGE, NON-REVERSING UNLESS OTHERWISE INDICATED | | 0 0 | OPERATOR-NORMALLY OPEN | (F) BUTTON | (MCP) AT MAIN CONTROL PANEL | |
| (FVR) FULL VOLTAGE REVERSING | BLOWER | | CONTROL RELAY CONTACT - NORMALLY OPEN | CONTROL RELAY CONTACT - NORMALLY CLOSED | (1) AT CONTROL PANEL NO.1 (2) AT CONTROL PANEL NO.2 | |
| FVR (RV) REDUCED VOLTAGE (2S, 2W) TWO SPEED, TWO WINDING | | | NORMALLY OPEN TIMING RELAY INSTANTANEOUS CONTACT | NORMALLY CLOSED TIMING RELAY INST. INSTANTANEOUS CONTACT | (TCP) AT TEMPERATURE CONTROL PANEL | |
| 2S,2W | GENERAL USE DISCONNECTING SWITCH | (CR) | CONTACT | T INSTANTANEOUS CONTACT | 4. NO WIRES SHALL BE TERMINATED TO TERMINAL ST | RIPS. OR OTHER EQUIPMENT WITHOUT |
| 600V, 3 POLE MOLDED CASE CIRCUIT BREAKER, FRAME & RATING AS SHOWN | ELAPSED TIME INDICATOR | -(CR)- | CONTROL RELAY COIL | TIMING RELAY COIL | FIRST VERIFYING SIGNAL TYPE. DAMAGES RESULTING | G FROM LACK OF VERIFICATION SHALL E |
| SINGLE PHASE, FRACTIONAL HP MOTOR TO LOCATION INDICATED | LEAT SED TIME INDIGATOR | | | | BORNE BY CONTRACTOR. CONTRACTOR SHALL COOF | RDINATE SIGNAL TYPE WITH I/O CARDS. |
| (SEE NOTE 2) | | CR | | H A C | 5. CONDUIT ROUTINGS SHOWN ON BACKGROUND PLA | • |
| | TIMING RELAY COIL | | | | ROUTINGS ONLY. EXACT CONDUIT ROUTINGS FOR AL LOCATED AND VERIFIED BY THE CONTRACTOR. COOF | |
| THREE PHASE LOAD WITH IDENTIFICATION | | | TWO COIL LATCHING RELAY | SELECTOR SWITCH OPERATOR WITH FUNCTION | AREAS WITH OWNER. CONDUIT TO BE CONCEALED IN | |
| HIGH VOLTAGE FUSE (ABOVE 600V) | TIMING RELAY COIL (OFF DELAY) | CR | | SHOWN | 6. ETHERNET AND FIBER OPTIC TERMINATIONS SHALL | BE PERFORMED BY A QUALIFIED |
| | 1 | | | | REPRESENTATIVE OF CABLE MANUFACTURER, THE C | |
| | (G) INDICATING LIGHT | | | | SHALL BE PERMITTED OF FIBER OPTIC CABLES, BETW TERMINATED AT PATCH PANELS, INCLUDING SPARES. | |
| | | | TIMED CLOSED CONTACT ON ENERGIZATION | TIMED OPEN CONTACT ON ENERGIZATION | 7. REFER TO THE CABLE MANUFACTURER'S RECOMM | ENDATIONS FOR MINIMUM REND RADIUS |
| A-3 | PUSH-TO-TEST INDICATING LIGHT | ^ | | | FOR FIBER OPTIC CABLES. INSTALL NEW PULL BOXES | (PB) AS REQ'D FOR CONDUITS. SIZE PU |
| MCP OR FOR POWER (SEE NOTE 2) 3/4"C(2/C#18SH) | - 0 ′ ` | | TIMED OPEN CONTACT ON DE-ENERGIZATION | TIMED CLOSED CONTACT ON DE-ENERGIZATION | BOXES AS REQ'D PER FIBER OPTIC CABLE MANUFACT | TURERS RECOMMENDATIONS. |
| FT CONDUIT AND WIRE RUN FROM DEVICE INDICATED TO LOCATION INDICATED | SECONDARY TRANSFORMER | 00 | 7500 00550 00 | DUOLITO TEGT INDIGATING | 8. RACEWAYS, PULLBOXES AND JUNCTION BOXES TO | |
| 10 | MOLDED CASE CIRCUIT BREAKER | | ZERO SPEED OR ANTI-PLUGGING SWITCH | PUSH-TO-TEST INDICATING LIGHT | MINIMUM STRUT LENGTH TO BE 12 INCHES, WHERE PO | OSSIBLE. |
| (CAPACITOR, 3 PHASE, SIZE AS INDICATED | Q L Q MOMENTARY PUSHBUTTON OPERATOR - NORMALLY CLOSED | | | 1-0 | 9. WIRING FOR STARTERS SHALL BE IN ACCORDANCE | |
| DISCONNECT SWITCH (F) = FUSED, (C) = CIRCUIT BREAKER | | | MAINTAINED STOP-START | MAINTAINED STOP-MOMENTARY START | SUBMIT ENGINEERED SHOP DRAWINGS FOR ALL STAF | RTERS SHOWN TO BE WIRED. |
| MAGNETIC STARTER (BACKGROUND DRAWINGS ONLY) | MOMENTARY PUSHBUTTON OPERATOR - NORMALLY OPEN | | MAINTAINED STOP-START PUSHBUTTON OPERATOR | PUSHBUTTON (JOG) | 10. CONTROL PANELS SHALL BE MOUNTED OFF WALL | S WITH STRUT. CONDUITS SHALL BE |
| COMBINATION MAGNETIC STARTER FLISED LINI ESS NOTED (CIRCUIT BREAKER) | O O SELECTOR SWITCH - NORMALLY OPEN | 1 | | <u> </u> | MOUNTED ON STRUT INCLUDING SINGLE RUNS. | |
| SIZE 2 COMBINATION MAGNETIC STARTER TOOLS ONLESS NOTED (CIRCOTT BREAKER) | | -0 -0 | | O—/ SOLENOID OR CLUTCH | 11. CONDUIT ENTERING CONTROL PANELS AND ELECTRIC PROPERTY OF THE PROPERTY OF T | |
| | PUSHBUTTON OPERATOR WITH MUSHROOM HEAD | | MAINTAINED PUSH-PULL | V | BE FILLED WITH DUCT SEAL, INCLUDING OPENINGS IN | |
| MANUAL STARTER (R) = REVERSING CP CONTROL PANEL | SOLENOID OR CLUTCH | -0 0- | OPERATOR | ELAPSED TIME INDICATOR | 12. CABLES (INCLUDING FIBER, ETHERNET, CONTROL PULLBOX SHALL BE LABELED AND COMPLETELY IDEN | |
| OUNTROL FAINEL | - V | | | LEW OLD TIME INDICATOR | AND ORIGINATION/DESTINATION. THIS ALSO INCLUDE | |
| UNIT HEATER, 1/8 HORSEPOWER | THERMAL OVERLOAD | | LOCAL TERMINALS WITH EXTERNAL WIRING | X1 X2 120VAC TRANSFORMER | CONTROL PANELS, PULLBOXES, ETC. | |
| UNIT HEATER, 1/8 HORSEPOWER | | | | ON LINE SYMBOLS | 13. CONTROL WIRES SHALL BE TAGGED WITH THE PLO | C I/O ADDRESS IN THE FIELD, AND IN TH |
| LIGHTING ARRESTOR | FIELD LOCATED | OVAADOL | | | STARTER. | |
| | TERMINAL POINT TERMINAL | SYMBOL | ELECTRICAL SIGNAL | DESCRIPTION | 14. FIELD CONTROL WIRING BETWEEN MOTOR CONTR | |
| A-3 LOW VOLTAGE HOME RUNS 120/208V, 120/240V (SEE NOTE 2) | LOW VOLTAGE FUSE | | | | CONTACTORS, AND CONTROL PANELS SHALL BE YELI | LOW #14AWG. |
| NEMA 4 WATERTIGHT | FUSIBLE TERMINAL BLOCK | | AIR LINE/PNEUMATIC SIGNAL | | | |
| NEMA 4X WATERTIGHT AND CORROSION PROOF | | | HYDRAULIC SIGNAL | | | |
| NEMA 7 EXPLOSION PROOF - CLASS I, DIVISION 1, GROUP D | CIRCUIT BREAKER WITH STAB CONNECTION | | ELECTROMAGNETIC OR SONIC S | BIGNAL | | |
| NEMA 9 EXPLOSION PROOF - CLASS II, DIVISION 1 | CONTROL POWER TRANSFORMER | o | SOFTWARE SIGNAL | | 1 | |
| KEYLOCK | | | CONNECTION TO PROCESS, OR | MECHANICAL LINK | 1 | |
| SD SMOKE DETECTOR | \ \ \ \ \ \ \ \ \ RECEPTACLE | | , , | | - | |
| EXIT LIGHT | | E-NET | AS INDICATED | GNAL-UNSHIELDED TWISTED PAIR (UTP)-SPEED | | |
| FLUORESCENT LUMINAIRE | | ——E-FO—— | ETHERNET FIBER OPTIC COMMU | JNICATIONS SIGNAL | 1 | |
| INCANDESCENT LUMINAIRE | | F0 | PLC REMOTE I/O FIBER OPTIC CO | | - | |
| | | | | OWNIVIONIOATION SIGNAL | | |
| HIGH INTENSITY DISCHARGE LIGHT | | V_F0 | ETHERNET VIDEO FIBER OPTIC | | | |
| EMERCENCY PATTERY DACK | \dashv | | | | | |
| EM EMERGENCY BATTERY PACK DESK INTERCOM SET | | | | | | |

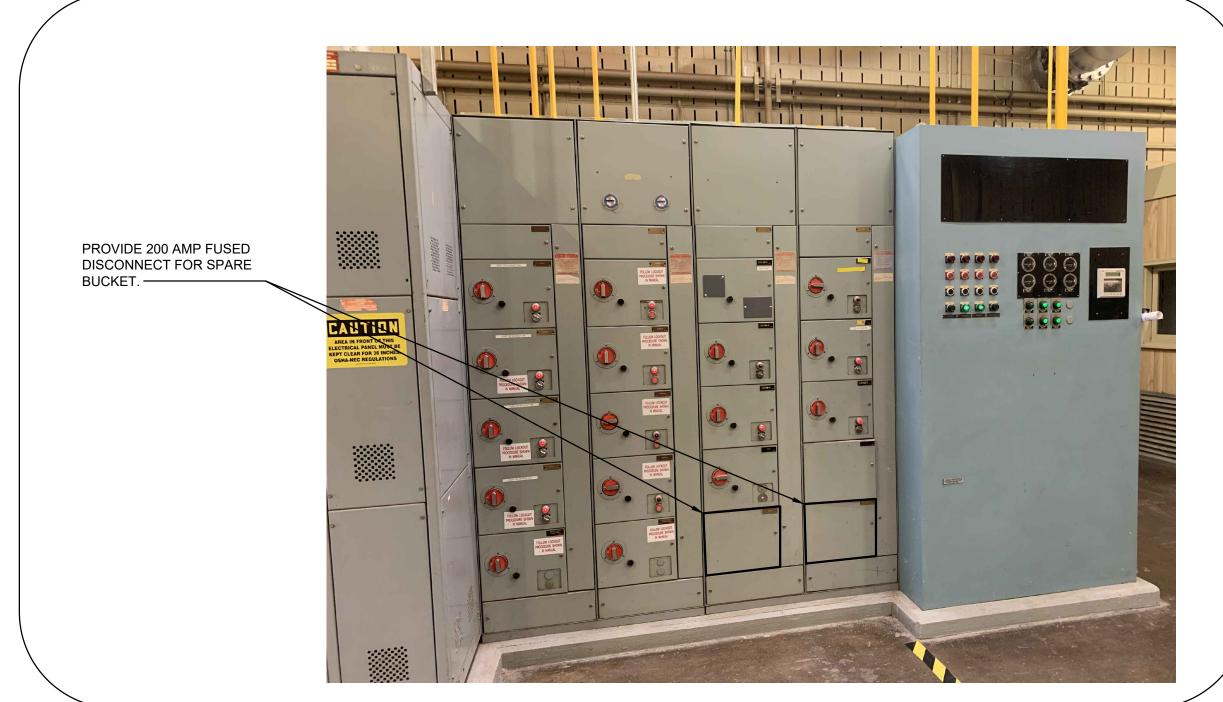
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PROJ: 200-325577-2200°

E-101





| UNIT | SUBSTATION 4 MOTOR CO | NTROL | CENTER 'E' - CONTINUED |
|------|-----------------------|--------------------|---------------------------|
| TEM | DESCRIPTION | FUSE SIZE | CIRCUIT |
| 77 | SIZE I STARTER | | 1/2 HP TELESCOPING VALVE |
| 78 | BOA. FUSED SWITCH | 15 | STARTER . |
| 79 | SIZE STARTER | 1 | 1/2 HP TELESCOPING VALVE |
| 80 | SPACE | 011193900118031181 | e 300 |
| 81 | SPACE . | B 80 | 9 |
| 82 | SPACE | | |
| 83 | SPACE | | B 6 2 |
| 84 | BOA. FUSED SWITCH | 30 | 14 HP PUMP AERATION BASIN |
| - 85 | 30A: FUSED SWITCH | -30 | 14 HP PUMP 's IT. |
| . 86 | BOA: FUSED SWITCH | 30 | 14HP PUMP II IS |
| 87 | 30A. FUSED SWITCH | 30 - | 14HP PUMP II II |
| 88 | 30A. FUSED SWITCH | 30 | 14 HP PUMP II B |
| 89 | 30A. FUSED SWITCH | 30 | 14-HP PUMP. 0 V. |
| 90 | 30A. FUSED SWITCH | 30. | 14 HP PUMP · II II |
| . 91 | 30A. FUSED SWITCH | 30 | 14 HP PUMP II III |
| 92 | 30A. FUSED SWITCH - | 30 | 14HP PUMP II II |
| 93 | BOA. FUSED SWITCH | 30 | 14 HP PUMP . " II |
| 94 | 30A. FUSED SWITCH | 30 | IAHP PUMP II II |
| 95 | BOA. FUSED SWITCH | -30. | 14HP PUMP II |

| | | SIZE 1 STARTER | . ¶ p = = | 1/2 HP BUTTERFLY VALVE |
|------|--------|---------------------------|----------------|------------------------|
| | Ø. | 30 AMP FUSED SWITCH . | . 15 . | STARTER |
| | 68 . | SIZE STARTER | | 1/2 HP BUTTERFLY VALVE |
| B . | 69 | 30 AMP FUSED SWITCH | 15 | STARTER |
| | - 70. | SIZE I STARTER | | 1/2 HP BUTTERFLY YALVE |
| | 71 | SO AMP FLISHO SWITCH | 15 | STARTER |
| e ! | 72 . | SIZE 1 STARTER | - q d | V2HP TELESCOPING VALVE |
| | 73 | 30 AMP FUSED SWITCH | . 15 | STARTER |
| | 74 . | SIZE I STARTER | | 1/2 HP TELESCOPING |
| 8 | 75 | SPACE | | a |
| | 76 | 30 AMP FUSED SWITCH | 15 | STARTER . |
| 8 | | | 8 | |
| - 18 | | MOTOR CONTROL CENTER *1 | 1 - PL | IMP STATION |
| | ITĖH | DESCRIPTION LLL CLL | -FUSE -SIZE | CIRCUIT |
| ۱. | HAI . | SPACE | | |
| | " HA2 | ACO:AMP EISED MAIN SWITCH | 500 ' | MOYOR CONTROL CENTER " |
| 1-9 | HBI . | GO AMP FUSED SWITCH | | PTARTER |
| _ | du du | SIZE Z STARTER | | SPARE |
| _ | 1162 T | BO: AMP FUSED SWITCH | 20 | STARTER : |
| | _ TO% | SIZE I STARTER | | 10 HP AIR COMPRESSOR |
| | | | | |

CIRCUIT

15 STARTER

NAHP BUTTERPLY VALVE

UNIT SUBSTATION & MOTOR CONTROL CENTER "E" - CONTINUED

DESCRIPTION

GO AMP FUSED SWITCH

| | E I | 30 AMP FUSED SWITCH | 15 | STARTER . |
|----------|---------------------------------------|----------------------------|----------------|------------------------------|
| 8 | | | 8 | |
| | e 1 e | OTOR CONTROL CENTER "1 | 1"- PL | JMP STATION |
| . 4 | ITĖH | DESCRIPTION | -FUSE -SIZE | CIRCUIT |
| | HAI . | SPACE | | 9 |
| | " HA2 | ACO: AMP EISED MAIN SWITCH | 500 ' | MOYOR CONTROL CENTER "H" |
| | HB('. | GO AMP FUSED SWITCH | 4 | STARTER |
| - | Au Au | SIZE Z STARTER | | SPARE |
| | 11B2 | BO: AMP FUSED SWITCH | 20 | STARTER " |
| | | SIZE I STARTER | | IO HP AIP COMPRESSOR |
| | - HB3 | GO AMP FUSED SWITCH | 50 | STARTER / |
| | | SIZE 2 STARTER | 4 | 25 HP YERT, TURBINE PUMP |
| | HC@ | 200 AMP FUSED SWITCH | 175 | STARTER |
| | | SIZE 4 STARTER | 9 9 | 100 HP VERT, TURBINE PUMP |
| | HB4 | GO AMP FUSED SWITCH | 50 | STARTER |
| all | | SIZE 2 STARTER | 4 | 25 HP MIXED FLOW PUMP |
| B offer | HBS | GO AMP FUSED SWITCH | . 50 | STARTER |
| | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | SIZE 2 STARTER | th. | 25 HP MIXED PLAW PLMP - |
| | L HCl | 30 AMP FUSED SWITCH | 30 | LR HAT IT IS A BUTTLE |
| | HC2 | 30 AMP FUSED SWITCH | 20 | LP. HB , ISKYA TRANSFORMER . |
| 8 | HC3 | 30 AMP. FUSED SWITCH | P | SPARE |
| - | HC4 | SO AMP FUSED SWITCH | I 15 . | 25 KW. UH. H-1 |
| il No | HE4 HC5 | | | |

| | | 43.444 | | n 8 |
|------------|----------------|---|----------|-----------------------------------|
| | 5 T | 30 AMP FUSED SWITCH | 30 | LIGHTING PANEL EA |
| 8 | * 6 ° | GOO AMP FUSED SWITCH -8 . | 600 | YARIADLE SPEED CONTROLS |
| | 9 | SPACE | | TON TES HE SENAGE PUMPS |
| | - 'alb | SO AMP FUSED SWITCH | 20 | IS KYA TRANSFORMER Z |
| 8 | 10A | SPACE | Pag. 200 | LIGHTING PANEL ES |
| 8 | | 400 AMP FUSED SWITCH | 350 | 200 HP BLOWER MOTOR |
| | 12, | SPACE | 0 | 1 |
| | 12 | SOAMP FUSED SWITCH | 15 | 5 KW UIL E-1. |
| - | 13A 14. | 400 AMP FUSED SWITCH | 350 | 20010 BLOWICE MOTOR |
| | 15 | SPACE | - 284 | 200 HP BLOWER MOTOR |
| | 16 | 30 AMP FUSED SWITCH. | 15 | 5KM NH'F-7 |
| | . 16A | IOOAMP PUSED SWITCH | 100 | CHLORINE BLDG. HEAT |
| | 17 | 400 AMP FUSED SWITCH | .350 | 200 HP BLOWER MOTOR |
| 8 | . 18 | SPACE SWITCH | 15 | 5 KW UH.E-3 |
| | 20 | GOO AMP FUSED SWITCH. | 600 | PRIMARY BLDG. |
| - | | | | FAIRAT BLUT |
| | 21 | SPACE | * | |
| | 22 | SO AMP FUSED SWITCH | - 15 | 5 kW - UH, E-4 - |
| | . 23 | 30 AMP FUSED SWITCH | 15 | 5 kW DH. E-5 |
| ٩ | 24 | 400 AMP PUSED SWITCH | 350 | 200 HP BLOWER MOTOR |
| 1 | 25. | 5PACE | - | |
| | 16 a | SO AMP FUSED SWITCH | 1.5 | 5 KW UH, E-6 |
| - | 27 | 30 AMP FUSED SWITCH | 15 | 5 KW UH. 6-7 |
| | 28 | 400 AMP PUSED SWITCH | 350 . | PUMP STATION |
| | | SPACE | | |
| illusion o | | | 100 | |
| | | SO AMP FLISED SWITCH . | . 15 | 5KW UR.E-8 |
| | <u>. 91</u> | 30 AMP FUSED SWITCH | 15 | 4 KW UH, E-9 |
| | 32 | 30 AMP FUSED SWITCH | 15 | 4 KW - UH - E-10 |
| B p | 33 | SO AMP FUSED SWITCH | | SPARE |
| | 84 | 30 AMP. FUSED SWITCH | t . | SPARE . |
| | . 35 | 30 AMP FUSED SWITCH : . | | SPARE . |
| | . 66 | SPARE | | ₩ |
| ┨ ゚ | 37 | 30 AMP FUSED SWITCH : | 15 | STARTER . |
| | | | F | |
| | 38 | SIZE I STARTER | | 1/2 H.R EF. E-2 |
| | | SO AMP FLISED SWITCH | 15 | STARTER |
| | 40 | SIZE I STARTER | m 8 E | 3/4 H.P. EP. E-B |
| | 4.1 | SO AMP FUSED SWITCH | 15 | STARTER |
| | . 42 | SIZE I STARTER | | 3/4 H.R EF. E-4 |
| | 43 | 30 AMP FUSED SWITCH | 15 | STARTER |
| | 44 . | SIZE STARTER | 0 | % H.P. EF. E-5 |
| | . 45, | 30 AMP FUSED SWITCH . | | STARTER |
| 1 | 46 . | SIZE I STARTER | | SPARE . |
| | | 30 AMP PUSED SWITCH | a _ | STARTER |
| of 1 | | SIZE I STARTER | | SPARE ' . ' |
| | | SPACE | | |
| \dashv | 49 | 2 22 72 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | | or or a grant of the second |
| - | 1.50 | SO AMP FUSED SWITCH | 30 | STARTER |
| | 51. | SIZE 2 STARTER | 2 6 | ISHR WASTE ACTIVATED SLUGGE PUMP |
| | 52 | BO AMP FUSED SWITCH | 30 | STARTER |
| 8 | 53 | DIZE '2 STARTER ' |) D | 15HP. WASTE ACTIVATED SLUDGE PUMP |
| | 1 5 5 6 | 30 AMP FUSED SWITCH | 15 | STARTER |
| | 55 - | SIZE I STARTER | | 8/4 H.P. CLAPIFIER |
| | . 56 | SO AMP FLISED SWITCH | 15 | STARTER |
| | | SIZE I STARTER | | 3/4H-P. CLAPIFIER |
| | 0 = 0 | SO AMP PUSED SWITCH | le mil. | |
| | 54. | | 15 | STARTER CLARITIES |
| | <u> </u> | SIZE I STARTER | | 3/4H.R CLARIFIER |
| | - | 30 AMP FUSED SWITCH | 15 | STARTER |
| | <u>. 61 . </u> | SIZE STARTER | d. | 34HP. CLARIFIER |
| | . 62 | SPACE | e • £ | * |
| | 1.25.1 | AD AMP, FUSED SWITCH | IĘ. | STARTER |
| | Promoting to | | 4744 344 | |

UNIT SUBSTATION & MOTOR CONTROL CENTER "E"- AFRATION BUILDING

CIRCUIT

DESCRIPTION

VOLTMETER, AMMETER, TEST SWITCHES

2500 AMP BOUT LOC PURED SWITCH 2500

INCOMING LINE SECTION

TRANSITION SECTION

CROSSHATCHED, AND/OR CIRCLED.

MCC ONE-LINE DIAGRAMS

TECH

E-102

LP-1(1) -3/4"C(3#12)TYP.-3/4"C(3#12)TYP. LEVEL SENSOR CONTROL BOX, TYP. 2 HA-1(8,10,12) 3/4"C(4#12)TYP. HA-1(13,15,17) UV CONTROL PANEL PDC-1VIA 3/4"C(2/C#18SH)—\ LP-1(11) TROUGH Y UV-CP LP-1(14) 3/4"C(3#14), TYP. 3/4"C(3#12), TYP. 3/4"C(3#12) HA-2(14,16,18) 3/4"C(4#12), TYPICAL— F.102.2 UV CONTROL PANEL _HA-2(13,15,17)-----1"C(3#4,1#8),TYP. PDC-2VIA TROUGH UV CONTROL PANEL, SCC HA-1(7,9,11) PDC/HSC-1 -() PDC/HSC-2 └─3/4"C(3#12) └─3/4"C(MODBUS)EA. - SAMPLE PUMP RECEPTACLE LP-1 EUH-2 HA-2(1,3,5) SEE NOTE 3 CONTD. ON SITE PLAN E-E-UV CP └─3/4"C(2/C#16SH) GARAGE DOOR DOOR OPENER CONTROLLER ─3/4"C(3#12)TYP. 3/4"C(4#14)TYP.-3/4"C(4#12)TYP. HA-1(2,4,6 UV BUILDING POWER PLAN SCALE: 3/16" = 1'-0"

NOTES:

- CORE HOLE THROUGH EXISTING TANK WALL TO ALLOW FOR TWO (2) FEEDS TO ENTER BUILDING. TURN UP INSIDE BUILDING TO STUB THROUGH NEW FLOOR TO PANELBOARDS.
- 2. AS MUCH AS POSSIBLE, INSTALL CONDUIT UNDERNEATH THE FLOOR BEFORE PORED. SOME CORING THROUGH EXISTING CHAMBER WALLS SHALL BE REQUIRED.
- 3. EXISTING POWER FEED TO PARSHAL FLUME METER SHALL REMAIN AS INSTALLED. PROVIDE NEW CONDUIT/WIRE FROM METER TO UV CONTROL PANEL. DEMOLISH EXISTING SIGNAL WIRING AND CAP CONDUIT
- 4. INSTALL UV MANUFACTURER SUPPLIED CABLE BETWEEN UV UNITS, PDCS, AND HSCS PER RECOMMENDATIONS. PROVIDE CONDUIT STUB OUTS FROM BOTTOM OF PDC/HSC INTO CABLE TROUGHS.

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IGAN

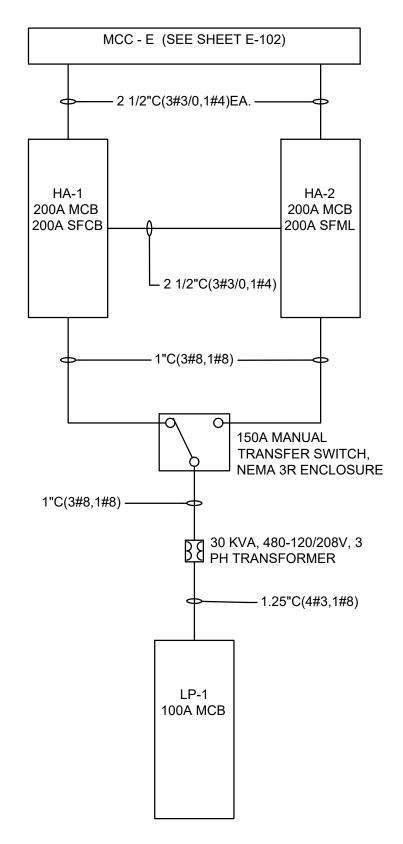
AAL WWTP
STION

ER PLAN

1. LIGHTS SHALL BE MOUNTED 8'-0" ABOVE GRADE. 2. LIGHTS SHALL BE MOUNTED 12'-0" ABOVE GRADE. └ 3/4"C(3#12)TYP. └─3/4"C(3#12)TYP. LP-1(2) BAY COUNTY, MICHIGAN UV BUILDING LIGHTING PLAN

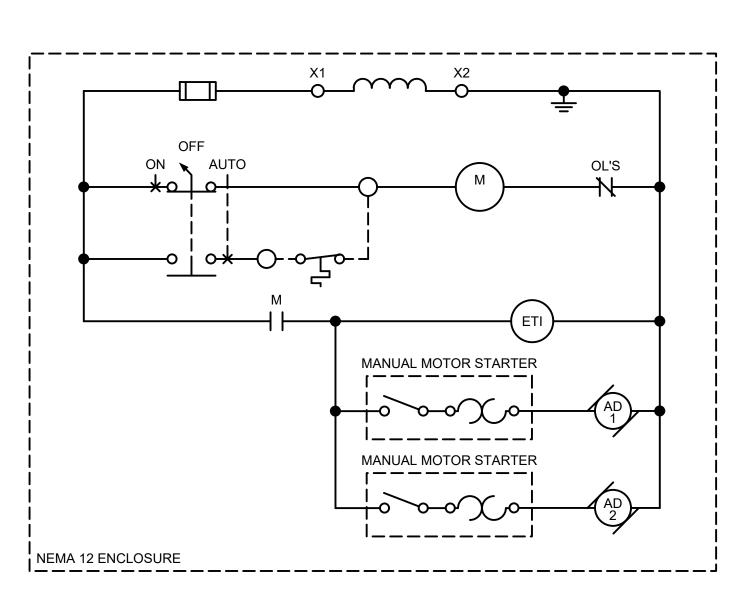
SCALE: 3/16" = 1'-0" PROJ: 200-325577-22001 CHKD: E-104 Bar measures 1 inch, otherwise drawing is not to scale

| | | | LIC | GHTING | FIXT | URE SCH | EDULE | | | | | | | |
|------|---|---|-------|--------|------|---------|------------------|---|--|--|--|--|--|--|
| TYPE | YPE MANUFACTURER MODEL VOLTAGE WATTS LAMP MOUNTING HEIGHT DESCRIPTION | | | | | | | | | | | | | |
| Α | LITHONIA LIGHTING | EMS L48 6000LM LPAFL MD 80CRI 40K | 120 V | 25 W | LED | PENDENT | 1' BELOW CEILING | EMS LED 48", 6,000 LUMENS, ACRYLIC, LOW PROFILE FROSTED LENS, MEDIUM | | | | | | |
| | | | | | | | | DISTRIBUTION, 80CRI, 4000K | | | | | | |
| ΑE | LITHONIA LIGHTING | EMS L48 6000LM LPAFL MD 80CRI 40K E10WMCP | 120 V | 25 W | LED | PENDENT | 1' BELOW CEILING | EMS LED 48", 6,000 LUMENS, ACRYLIC, LOW PROFILE FROSTED LENS, MEDIUM | | | | | | |
| | | | | | | | | DISTRIBUTION, 80CRI, 4000K, INCLUDES EMERGENCY BATTERY PACK (E10WMCP) | | | | | | |
| | | | | | | | | | | | | | | |
| W | LITHONIA LIGHTING | WST LED P2 40K VW MVOLT E7WC PIR | 120 V | 38 W | LED | WALL | AS INDICATED | WST LED, PERFORMANCE PACKAGE 2, 4000K, VISUAL COMFORT WIDE, MVOLT, | | | | | | |
| | | | | | | | | INCLUDES COLD RATED EMERGENCY BATTERY BACKUP (E7WC) AND | | | | | | |
| | | | | | | | | MOTION/AMBIENT LIGHT SENSOR (PIR) | | | | | | |



PROJECT ONE-LINE

NOTE: PROVIDE KEY INTERLOCK SYSTEM FOR THE MAIN BREAKERS AND THE SUBFEED BREAKER IN HA-1/2. PROVIDE TWO KEYS AND THREE LOCKS.



EXHAUST FAN EF-1 AND DAMPERS AD-1/2

| | LP-1 | | | | | PA | NEL | SCH | EDULE | M | | PROJECT: | | TT #200-325577-22 | 001 | |
|-------|----------------|--|---------|---------|-------|--|--------|--------|-------|-----|-------|----------|--------------|---------------------|----------------|----------|
| | 120/208V, 3Ph | , 4W. | | 200A BI | JS | | 100A N | Л.С.В. | | | SURFA | ACE MOU | NTED | | | 8-Sep-23 |
| CKT | DESCRIPTION/ | | | | LOAD | LOAD | CB | CB | | CB | CB | LOAD | LOAD | DESCRIPTION/ | | (|
| NO | LOCATION | | | | (VA) | TYPE | AMP | POLE | PHASE | AMP | POLE | (VA) | TYPE | LOCATION | | |
| 1 | WEST UV BUILI | DING REC | CEPTS | | 720 | R | 20 | 1 | а | 20 | 1 | 114 | L | EXTERIOR LIGHTIN | NG | |
| 3 | EAST UV BUILD | ING REC | EPTS | | 720 | R | 20 | 1 | b | 20 | 1 | 50 | L | UV BUILDING EME | ERGENCY LIGHT | ΓING |
| 5 | UV BUILDING LI | GHTING | | | 400 | L | 20 | 1 | С | 20 | 1 | 1,800 | G | UV CONTROL PAN | NEL, SCC | |
| 7 | GARAGE DOOF | } | | | 1,176 | G | 30 | 1 | а | 20 | 1 | | | SPARE | | |
| 9 | SPARE | | | | | | 20 | 1 | b | 20 | 1 | | | SPARE | | |
| 11 | LEVEL SENSOR | R CONTR | OL BOX, | LS-1 | 120 | G | 20 | 1 | С | 20 | 1 | 120 | G | LEVEL SENSOR C | CONTROL BOX, I | LS-2 |
| 13 | SAMPLE PUMP | RECEPT | ΓACLE . | • | 1,440 | R | 20 | 1 | a | 20 | 1 | 50 | G | AE/AIT-1 (UVT) | | |
| 15 | SPARE | | | | | | 20 | 1 | b | 20 | 1 | | | SPARE | | |
| 17 | SPARE | | | • | | | 20 | 1 | С | 20 | 1 | | | SPARE | | |
| 19 | SPARE | ······································ | ···· | | | | 20 | 1 | а | 20 | 1 | | | SPARE | | |
| 21 | SPARE | | | | | | 20 | 1 | b | 20 | 1 | | ···· | SPARE | | |
| 23 | SPARE | | | | | | 20 | 1 | С | 20 | 1 | | | SPARE | | |
| 25 | SPARE | ······································ | ···· | | | | 20 | 1 | а | 20 | 1 | | | SPARE | | |
| 27 | SPARE | | | | | | 20 | 1 | b | 20 | 1 | | •••••••••••• | SPARE | | |
| 29 | SPARE | | | | | | 20 | 1 | С | 20 | 1 | | | SPARE | | |
| 31 | SPARE | | ····· | | | ······································ | 20 | 1 | a | 20 | 1 | | ···· | SPARE | | |
| 33 | SPARE | | | | | | 20 | 1 | b | 20 | 1 | | | SPARE | | |
| 35 | SPARE | | ···· | | | | 20 | 1 | С | 20 | 1 | | | SPARE | | |
| 37 | SPACE | | | | | | | | а | | | | | SPACE | | |
| 39 | SPACE | | | | | | | | b | | | | ••••• | SPACE | | |
| 41 | SPACE | | | | | | | | С | | | | | SPACE | | |
| OT C | ONN LOAD: | Ph A | | | 3,500 | VA | 29 | Α | | | | | | | | |
| гот с | ONN LOAD: | Ph B | | | 770 | VA | 6 | Α | | | | ACCESSO | RIES | Provide Integral TV | SS Unit | |
| TOT C | ONN LOAD: | Ph C | | | 2,440 | VA | 20 | Α | | | | | | | | |
| MAX' | PHASE CONN L | OAD: | | Ph A | 3,500 | VA | | | | | | | | | | |
| ΓΟΤΑΙ | L CONNECTED L | OAD (3 X | (MAX): | | 10.5 | KVA | 29.2 | AMPS | | | TOTAL | DEMAND | LOAD: | 6.9 KVA | 19.0 AMPS | |

| | HA-1 | | | PA | NEL | SCH | EDULE | | | PROJECT: | | TT #200-325577-2 | 2001 | | |
|----------|--------------------------|--------|--------|---|--------|--------|--------|-----|---|----------|-------|---------------------|------------------|----------|----|
| | 277/480V, 3Ph, 4W. | 225A B | US | | 200A N | Л.С.В. | | | SURF | ACE MOUN | NTED | | | 8-Sep-2 | 23 |
| CKT | DESCRIPTION/ | | LOAD | LOAD | CB | CB | | СВ | CB | LOAD | LOAD | DESCRIPTION/ | |) | Ck |
| NO | LOCATION | | (VA) | TYPE | AMP | POLE | PHASE | AMP | POLE | (VA) | TYPE | LOCATION | | | N |
| 1 | | | 1,850 | Н | | | а | | *************************************** | 1,850 | Н | | | | 2 |
| 3 | EUH-1 | | 1,850 | Н | 20 | 3 | b | 20 | 3 | 1,850 | Н | EUH-3 | | | 4 |
| 5 | | | 1,850 | Н | | | С | | | 1,850 | Н | | | | 6 |
| 7 | | | 1,850 | Н | | | а | | | 14,127 | G | | | | 8 |
| 9 | EUH-5 | | 1,850 | Н | 20 | 3 | b | 70 | 3 | 14,127 | G | PDC-1 | | | 1 |
| 11 | | | 1,850 | Н | | | С | | | 14,127 | G | | | | 1 |
| 13 | | | 831 | G | | | а | | - | 346 | G | 20174 | | | 1 |
| 15 | HSC-1 | | 831 | G | 20 | 3 | b | 20 | 3 | 346 | G | F.102.1 | | | 1 |
| 17 | | | 831 | G | * | | С | | | 346 | G | | | | 1 |
| 19 | | | 5,540 | G | 400 | | a | | | | | 00.00 | | | 2 |
| 21 | LP-1 & 30 kVA XFMR (PRII | MARY) | 5,540 | | 100 | 3 | b | 20 | 3 | | | SPARE | | | 2 |
| 23 | | | 5,540 | G | | | С | | | | | | | | 2 |
| 25 | CD A DE | | | | 20 | ء ا | a | 20 | 2 | * | | | | | 2 |
| 27 | SPARE | | | | 20 | 3 | b | 20 | 3 | | | SPARE | | | 2 |
| 29 31 | | | | | | | С | | | | | | | | 3 |
| 33 | SPARE | | | *************************************** | 20 | 3 | a b | 200 | 3 | · | | ALT FEED TO HA | _2 | | 3 |
| 35 | OI AIL | | | | 20 | ٦ | C | 200 | 3 | | | ALTI LLD IOTIA | - L | | 3 |
| 37 | | | | | | | a | | | | | | | | 3 |
| 39 | SPACE | | | | | | b | | | ····· | | SPACE | | | 4 |
| 41 | | | | | | | C | | | | | JOI AOL | | | 4 |
| OT C | CONN LOAD: Ph A | | 26,394 | VA | 95 | A | | | | ACCESSO | RIES | Provide key interlo | cks for Main and | Subfeed | _ |
| | CONN LOAD: Ph B | | 26,394 | | 95 | | | | | | | Provide Integral TV | | | |
| | CONN LOAD: Ph C | | 26,394 | | 95 | | | | | | | Provide 200A Sub | | eed HA-2 | |
| | " PHASE CONN LOAD: | Ph A | 26,394 | | | | | | | | | | | | |
| OTA | L CONNECTED LOAD (3 X N | MAX): | 79.2 | KVA | 95.2 | AMPS | | | TOTAL | DEMAND | LOAD: | 79.2 KVA | 95.2 AMPS | | |

| HA-2 | | | PAI | NEL | SCH | EDULE | | | PROJECT: | | TT #200-325577-2 | 2001 | | |
|-------------------------|--|---|---|--------------|--|---|--|--|---|--|---|---|---|---|
| 277/480V, 3Ph, 4W. | 225A B | US | | 200A N | И.С.В. | | | SURFA | ACE MOUN | NTED | | | | 8-Sep-23 |
| DESCRIPTION/ | | LOAD | LOAD | CB | CB | | CB | CB | LOAD | LOAD | DESCRIPTION/ | | | CKT |
| LOCATION | | (VA) | TYPE | AMP | POLE | PHASE | AMP | POLE | (VA) | TYPE | LOCATION | | | NO |
| | | 1,850 | Н | | | а | | | 1,850 | Н | | | | 2 |
| EUH-2 | | 1,850 | Н | 20 | 3 | b | 20 | 3 | 1,850 | | EUH-4 | | | 4 |
| | | 1,850 | Н | | | С | | | 1,850 | Н | | | | 6 |
| | | 259 | М | | | a | | | 14,127 | G | | | | 8 |
| EF-1 | | 259 | М | 20 | 3 | b | 70 | 3 | 14,127 | G | PDC-2 | | | 10 |
| | | 259 | М | | | С | | | 14,127 | G | | | | 12 |
| | | 831 | G | | | a | | | 346 | G | | | | 14 |
| HSC-2 | | 831 | G | 20 | 3 | b | 20 | 3 | 346 | G | F.102.2 | | | 16 |
| | | 831 | G | | | С | | | 346 | G | | | | 18 |
| | | | | | | a | | | | | | | | 20 |
| LP-1 & 30 kVA XFMR (SEC | ONDARY) | | | 20 | 3 | b | 20 | 3 | | | SPARE | | | 22 |
| | | 5,540 | G | | | С | | | | | | | | 24 |
| | | | | | | а | | | | | | | | 26 |
| SPARE | | | | 20 | 3 | b | 20 | 3 | | | SPARE | | | 28 |
| | | | | | | С | | | | | | | | 30 |
| | | | | | | а | | _ | | | | | | 32 |
| SPARE | | | | 20 | 3 | b | 20 | 3 | | | SPARE | | | 34 |
| | | | | | | С | | | | | | | | 36 |
| 05.05 | | | | | | a | | | | | 00405 | | | 38 |
| SPACE | | | | | | b | | | | | SPACE | | | 40 |
| | | | | | | С | | | | | | | | 42 |
| CONN LOAD: Ph A | | 24,803 | VA | 90 | Α | | | | ACCESSO | RIES | Provide key interlo | ock for M | ain | |
| CONN LOAD: Ph B | | 24,803 | VA | 90 | Α | | | | | | Provide Integral T | /SS Unit | | |
| CONN LOAD: Ph C | | 24,803 | VA | 90 | Α | | | | | | Provide Feed-Thru | Lugs | | |
| PHASE CONN LOAD: | Ph A | 24,803 | VA | | | | | | | | | | | |
| L CONNECTED LOAD (3 X M | AX): | 74.4 | KVA | 89.5 | AMPS | | | TOTAL | DEMAND | LOAD: | 74.4 KVA | 89.5 | AMPS | |
| | 277/480V, 3Ph, 4W. DESCRIPTION/ LOCATION EUH-2 EF-1 HSC-2 LP-1 & 30 kVA XFMR (SECONSPARE) SPARE SPARE SPACE CONN LOAD: Ph A CONN LOAD: Ph C Ph C Ph A CONN LOAD: Ph A CONN | 277/480V, 3Ph, 4W. DESCRIPTION/ LOCATION EUH-2 EF-1 HSC-2 LP-1 & 30 kVA XFMR (SECONDARY) SPARE SPARE SPACE CONN LOAD: Ph A CONN LOAD: Ph B CONN LOAD: Ph C | 277/480V, 3Ph, 4W. DESCRIPTION/ LOCATION EUH-2 EUH-2 EF-1 EF-1 EF-1 EF-1 EP-1 & 30 kVA XFMR (SECONDARY) SPARE SPARE CONN LOAD: Ph A CONN LOAD: Ph B CONN LOAD: Ph C PHASE CONN LOAD: Ph A 225A BUS LOAD (VA) 1,850 1,850 259 259 259 831 831 5,540 5,540 5,540 5,540 5,540 24,803 CONN LOAD: Ph B CONN LOAD: Ph B CONN LOAD: Ph C PHASE CONN LOAD: Ph A 24,803 | DESCRIPTION/ | 277/480V, 3Ph, 4W. DESCRIPTION/ LOCATION LOCATION LOCATION 1,850 H 20 259 M 20 259 B31 G 20 831 G 5,540 G 5,540 G 5,540 G 5,540 G SPARE 20 SPAR | 277/480V, 3Ph, 4W. 225A BUS 200A M.C.B. | 277/480V, 3Ph, 4W. 225A BUS 200A M.C.B. DESCRIPTION/ LOAD LOAD CB CB LOCATION (VA) TYPE AMP POLE PHASE EUH-2 1,850 H 20 3 b 259 M 20 3 b C Rational State of the companies of the comp | 277/480V, 3Ph, 4W. 225A BUS 200A M.C.B. DESCRIPTION/ | 277/480V, 3Ph, 4W. 225A BUS 200A M.C.B. SURFA | 277/480V, 3Ph, 4W. 225A BUS 200A M.C.B. SURFACE MOUT | 277/480V, 3Ph, 4W. 225A BUS 200A M.C.B. SURFACE MOUNTED | 277/480V, 3Ph, 4W. 225A BUS 200A M.C.B. SURFACE MOUNTED | 277/480V, 3Ph, 4W. 225A BUS 200A M.C.B. SURFACE MOUNTED | 277/480V, 3Ph, 4W. 225A BUS 200A M.C.B. SURFACE MOUNTED |

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