



KEY TO COUNTIES

CITY OF FLINT

DEPARTMENT OF PUBLIC WORKS

PUMP STATION REHABILITATION

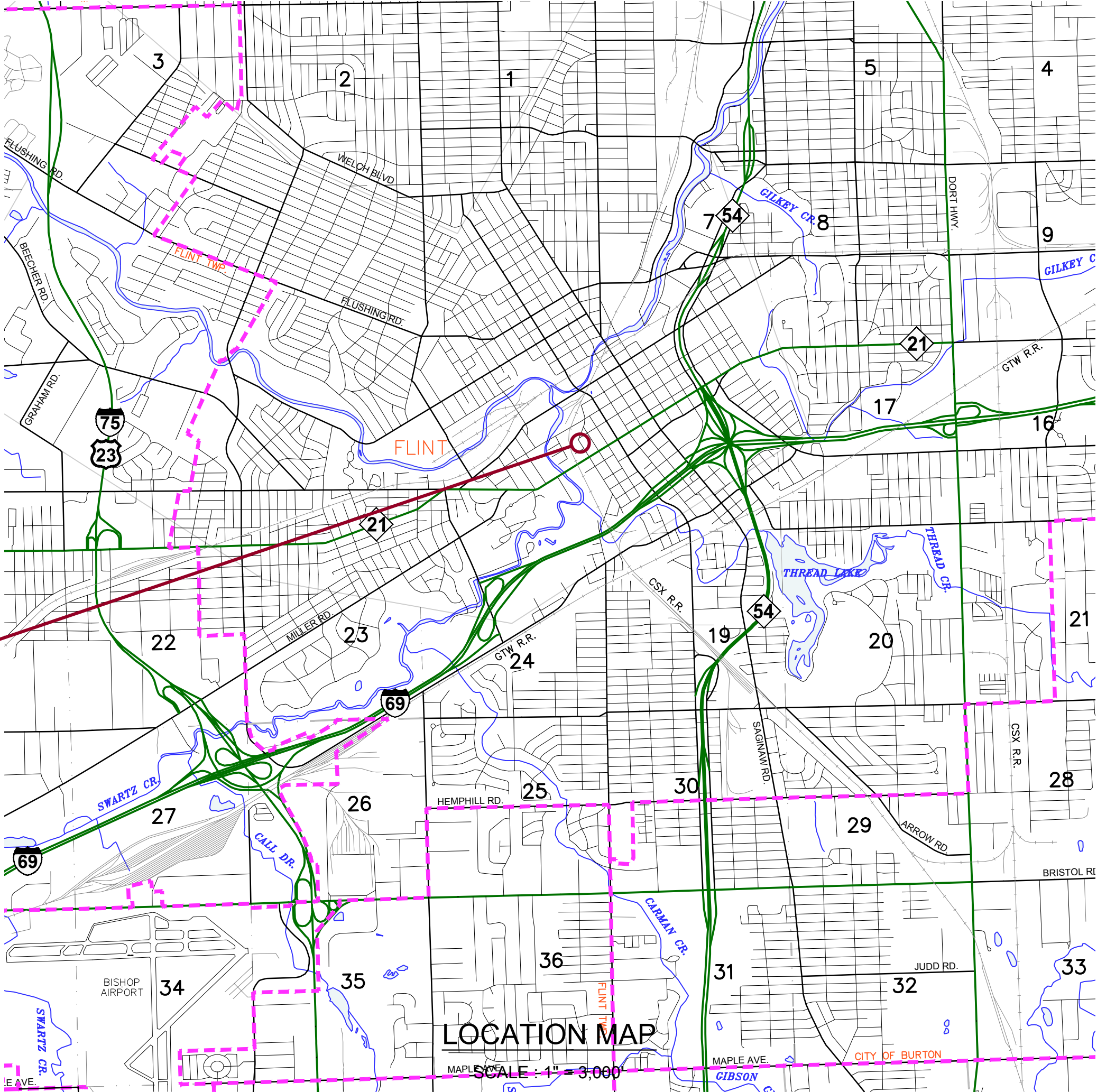
CEDAR STREET

Project Location:

City of Flint
Section 32 of T8N, R6E,
Geographic Township of Genesee
Genesee County, Michigan 48505

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| ED2.1 | First Floor Plan-Power Demolition |
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PROJECT
LOCATION



CITY OF FLINT OFFICIALS

| | |
|----------------------|-----------------------------|
| SHELDON NEELEY | MAYOR |
| ERIC MAYS | CITY COUNCIL 1ST WARD |
| LADEL LEWIS | CITY COUNCIL 2ND WARD |
| QUENCY MURPHY | CITY COUNCIL 3RD WARD |
| JUDY PRIESTLY | CITY COUNCIL 4TH WARD |
| JERRI WINFREY-CARTER | CITY COUNCIL 5TH WARD |
| TONYA BURNS | CITY COUNCIL 6TH WARD |
| ALLIE HERKENRODER | CITY COUNCIL 7TH WARD |
| DENNIS PFEIFFER | CITY COUNCIL 8TH WARD |
| EVA WORTHING | CITY COUNCIL 9TH WARD |
| CLYDE D. EDWARDS | CITY OF FLINT ADMINISTRATOR |

APPROVED BY THE CITY OF FLINT

DIRECTOR OF DEPARTMENT OF PUBLIC WORKS

PROJECT DESCRIPTION:
REHAB OF EXISTING PUMP STATION.

PREPARED UNDER THE SUPERVISION OF

| | |
|----------------------------------|------------------|
| GREG J. GUCWA | 6201026553 |
| REGISTERED PROFESSIONAL ENGINEER | REGISTRATION NO. |
| DLZ, INC. | |
| ORGANIZATION | |

GENERAL NOTES

THE CONTRACTOR SHALL CALL "MISS DIG" (1-800-482-7171) THREE WORKING DAYS, EXCEPT SATURDAY, SUNDAY, AND HOLIDAYS PRIOR TO COMMENCEMENT OF ANY WORK.

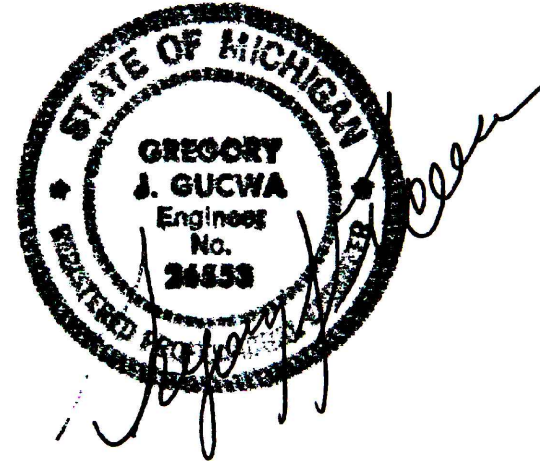
ALL UTILITIES SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS AND AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE THE EXACT LOCATION NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THE AREA.

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE CITY OF FLINT CODE OF ORDINANCES.



INNOVATIVE IDEAS
EXCEPTIONAL DESIGN
UNMATCHED CLIENT SERVICE

DLZ PROJECT No.
1949-0188-00
SHEET 1 OF 43



DATE ISSUED: 7/7/23 ISSUED FOR BID
DATE ISSUED: 5/17/23 OWNER REVIEW
DATE ISSUED: 6/5/23 EGLE PERMIT

A. CONTRACTOR IS RESPONSIBLE TO CONFORM TO APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS INCLUDING APPLICABLE ORDINANCES AND REFERENCED STANDARDS.

B. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO SUBMITTING A BID OR BEGINNING ANY WORK. CONDITIONS FOUND TO BE IN VARIANCE FROM THE INFORMATION IN THE DRAWINGS OR PROJECT MANUAL SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING FOR CLARIFICATION.

C. KEYNOTES ARE MEANT AS A GENERAL GUIDE FOR TYPICAL LOCATIONS. CONTRACTOR TO PERFORM FULL EXTENT OF WORK REQUIRED TO ACCOMPLISH DESIGN INTENT. THE ABSENCE OF A KEYNOTE DOES NOT ABSOLVE THE CONTRACTOR FROM PROVIDING THE FEATURE GRAPHICALLY INDICATED ON THE DRAWINGS.

D. SPECIFIC WORK ITEMS SHALL BE COORDINATED AND INTERFACED WITH ALL OTHER TRADES TO ALLOW FOR NEW CONSTRUCTION AND COMPLETE INSTALLATION AS REQUIRED TO ACCOMPLISH DESIGN INTENT.

E. REFER TO DRAWINGS OF EACH TRADE OR DISCIPLINE FOR ADDITIONAL GENERAL NOTES AND INFORMATION, INCLUDING CIVIL/SITE DEVELOPMENT, ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL.

F. CONTRACTOR IS RESPONSIBLE FOR ALL WORK IDENTIFIED ON ALL DRAWINGS AND INFORMATION IN THE PROJECT MANUAL, AS A COMPLETE PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE SPECIFIC SCOPE OF WORK FOR ANY SUBCONTRACTORS FOR THIS PROJECT.

G. FIELD VERIFY ACTUAL LOCATIONS OF EXISTING UNDERGROUND UTILITIES, STRUCTURES, WATER LINES, STORM AND SANITARY LINES, GAS LINES, ELECTRICAL CONDUIT, AND OTHER UNDERGROUND UTILITIES PRIOR TO PERFORMING EARTHWORK, EXCAVATION, OR UTILITY WORK. ENGAGE THE SERVICES OF A PRIVATE UTILITY LOCATE COMPANY IF NECESSARY TO COMPLETELY LOCATE EXISTING UNDERGROUND UTILITIES AND STRUCTURES.

H. LOCATION OF ALL TEMPORARY FACILITIES SHALL BE COORDINATED WITH OWNER AND ARCHITECT PRIOR TO MOBILIZATION ON-SITE, INCLUDING BUT NOT LIMITED TO TEMPORARY STAGING AREA, MATERIAL STORAGE AREA, ACCESS DRIVE(S), PARKING AREA, TOPSOIL STOCKPILE AREA, WASTE DISPOSAL AREA, FIELD OFFICES AND TEMPORARY FACILITIES, JOB SIGN, AND TEMPORARY FENCING.

I. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MISCELLANEOUS BLOCKING REQUIRED FOR INSTALLATION OF ALL BUILDING COMPONENTS, INCLUDING BUT NOT LIMITED TO FURNISHINGS, FIXTURES, EQUIPMENT, HARDWARE, BRACKETS, AND OWNER-PROVIDED EQUIPMENT. CONTRACTOR SHALL COORDINATE SPECIFIC REQUIREMENTS ASSOCIATED WITH EACH TRADE AND WITH OWNER'S REPRESENTATIVE.

J. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL MISCELLANEOUS WOOD AND METAL TRIM, FLASHING, CLIP ANCHORS, ANCHORS, SUPPORTS, AND CLOSURE TRIM REQUIRED TO PROVIDE A COMPLETE, UNIFORM, AND WEATHERTIGHT ASSEMBLY AS REQUIRED TO ACCOMPLISH THE DESIGN INTENT.

K. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORY COMPONENTS AS REQUIRED TO FULLY COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.

L. CONTRACTOR SHALL PROVIDE ACCESS DOORS IN ALL WALLS AND CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, FIRE PROTECTION OR ELECTRICAL ITEMS MAY BE REQUIRED. ACCESS DOORS SHALL BE OF AN APPROPRIATE SIZE REQUIRED FOR EACH APPLICATION. WHERE APPLICABLE, ACCESS DOORS SHALL MATCH THE FIRE RATINGS OF THE WALL ASSEMBLY.

M. WHERE DISCREPANCIES EXIST IN THE CONTRACT DOCUMENTS INCLUDING DISCREPANCIES BETWEEN DRAWINGS AND PROJECT MANUAL, CONTRACTOR SHALL REQUEST CLARIFICATION IN WRITING FROM ARCHITECT. THE CONTRACTOR SHALL NOT ASSUME ANY ITEM TAKES PRECEDENCE OVER THE OTHER. ANY ACTION THE CONTRACTOR MAKES PRIOR TO NOTIFICATION IN WRITING SHALL BE SOLELY AT THE CONTRACTOR'S RISK.

N. CONTRACTOR SHALL SEAL ALL PENETRATIONS IN EXTERIOR WALL AND ROOF ASSEMBLIES WITH APPROPRIATE JOINT SEALANT(S) AND FLASHING(S) TO MAINTAIN A WEATHERTIGHT AND AIRTIGHT BUILDING ENVELOPE. ALL JOINTS AND PENETRATIONS SHALL BE SEALED, GASKETED, OR WEATHER-STRIPPED TO MINIMIZE AIR LEAKAGE, INCLUDING THE FOLLOWING:

1. JOINTS AROUND PENETRATION AND DOOR FRAMES.
2. JUNCTIONS BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALLS AT BUILDING CORNERS, BETWEEN WALLS AND FLOORS OR ROOFS, AND BETWEEN WALLS AND ROOF OR WALL PANELS.
3. OPENINGS AT PENETRATIONS OF UTILITY SERVICES THROUGH ROOFS, WALLS, AND FLOORS.
4. JOINTS, SEAMS, AND PENETRATIONS OF VAPOR RETARDERS.
5. ALL OTHER OPENINGS IN THE BUILDING ENVELOPE.

O. COORDINATE WITH OTHER CONSTRUCTION ACTIVITIES AND CONSTRUCTION SEQUENCING WITH OTHER PROJECT(S) AND WORK BEING PERFORMED CONCURRENTLY ON-SITE.

P. CONTRACTOR TO PROTECT ALL ITEMS WITHIN THE CONSTRUCTION LIMITS (INCLUDING SITE ELEMENTS) THAT ARE DESIGNATED TO REMAIN; ITEMS DAMAGED AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT SHALL BE REPAIRED OR REPLACED TO ORIGINAL CONDITION.

Q. ALL PENETRATIONS AND JOINTS IN FIRE-RATED WALL ASSEMBLIES AND FLOOR/CEILING ASSEMBLIES SHALL BE SEALED WITH THE FIRESTOPPING SYSTEM OR FIRE-RESISTIVE JOINT SYSTEM WHICH IS THE MOST APPROPRIATE FOR THE SPECIFIC APPLICATION BASED ON THE TYPE OF ASSEMBLY AND TYPE OF PENETRATING ELEMENT. SYSTEMS SHALL BE U.L.-LISTED FOR EACH APPLICATION.

R. ALL VERTICAL PENETRATION (OPERABLE AND FIXED GLAZED ASSEMBLIES) SHALL BE LABELED BY THE MANUFACTURER WITH U-FACTOR, SHGC RATING, SAFETY RATING, AND FIRE-RESISTANCE RATING, WHERE APPLICABLE. WINDOWS AND DOORS SHALL BE CERTIFIED AS MEETING AIR LEAKAGE REQUIREMENTS PER NFRC 400.

S. THESE DRAWINGS SHALL NOT BE SCALED TO OBTAIN DIMENSIONS. IF THE DIMENSIONS CANNOT BE DETERMINED BY THE INFORMATION GIVEN, CONTRACTOR SHALL REQUEST CLARIFICATION FROM THE ARCHITECT. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CMU, OR FACE OF CONCRETE, UNLESS NOTED OTHERWISE. CEILING HEIGHT DIMENSIONS ARE FROM FINISHED FLOOR TO FACE OF FINISHED CEILING MATERIALS, UNLESS NOTED OTHERWISE.

T. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY DEWATERING ACTIVITIES AS PART OF THE BASE BID AMOUNT.



NO SCALE



DLZ
ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES

INNOVATIVE IDEAS
EXCEPTIONAL DESIGN
UNMATCHED CLIENT SERVICE

WARNING

UTILITY LOCATIONS ARE NOT CONFIRMED. THOSE SHOWN WERE OBTAINED FROM UTILITY OWNERS OR PLANS. THREE FULL WORKING DAYS PRIOR TO BEGINNING WORK THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS TO HAVE WORK AREA STAKED AND HE SHALL PROTECT OR HAVE RELOCATED, AS NOTED IN THE SPECIFICATIONS, ALL UTILITIES THAT MIGHT INTERFERE WITH CONSTRUCTION.



City of Flint
1101 S. Saginaw Street
Flint, Michigan 48502

GENERAL NOTES
Cedar Pump Station Rehabilitation
Bearing Support & Access
Cedar Street
Flint, Michigan 48503



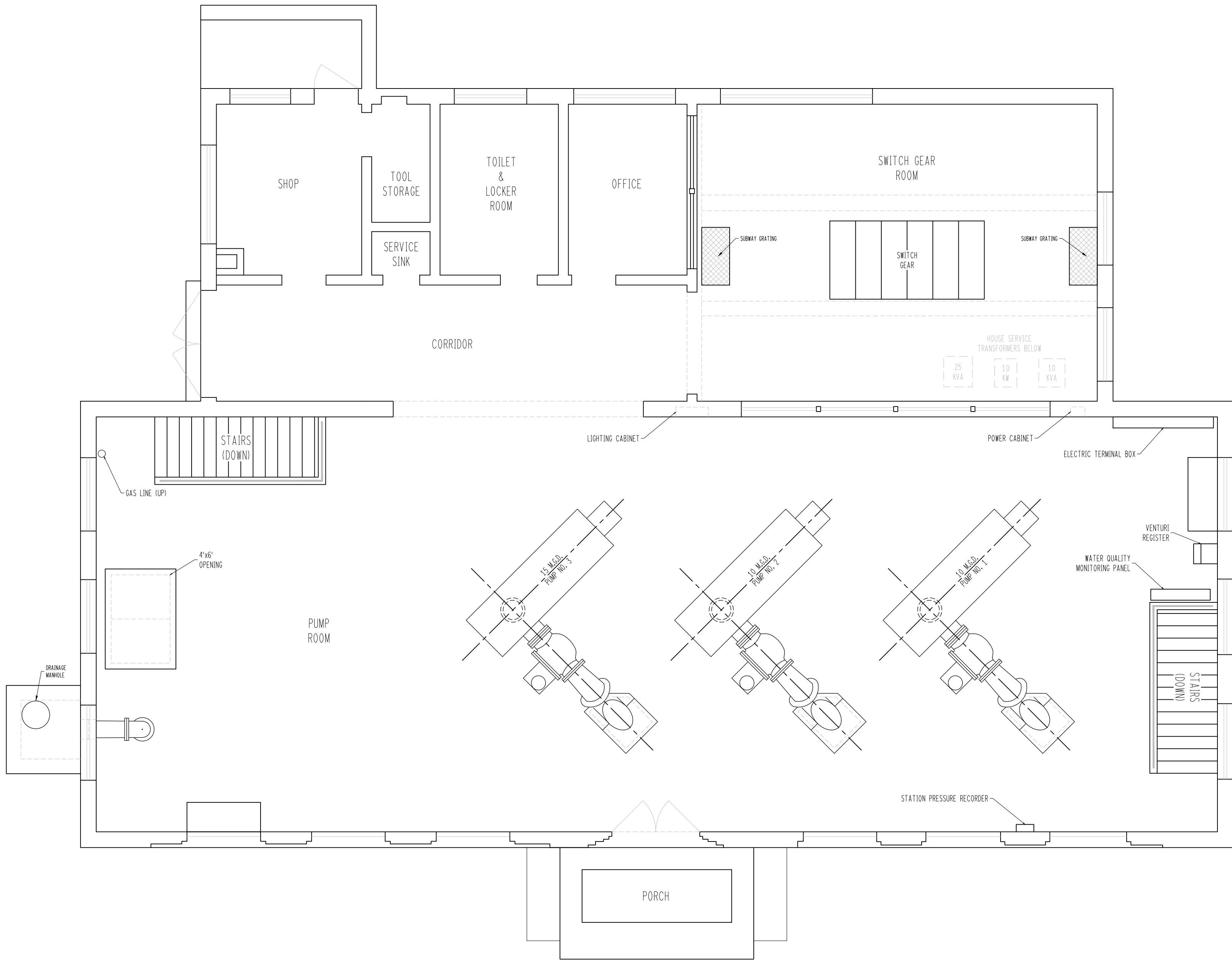
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| - | - | - |
| ISSUE FOR BID | | 7/5/23 |
| PERMITTING | | 6/7/23 |
| OWNER REVIEW | | 5/17/23 |

DRAWN BY: DLZ
DESIGN BY: -
CHECKED BY: -

DLZ JOB NUMBER: 1949-0188-00

SHEET NO.

G-001



FLOOR PLAN

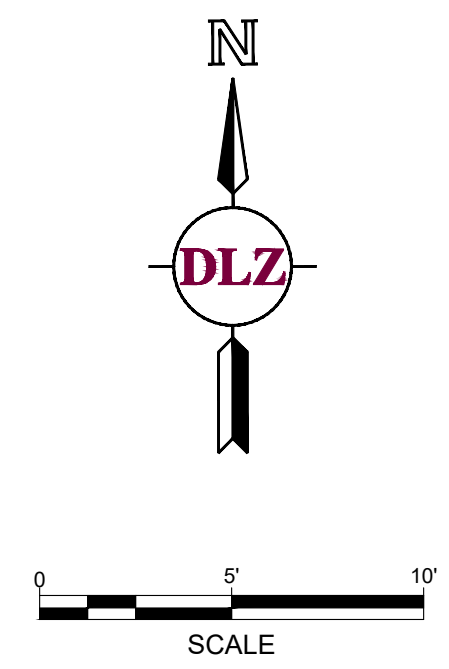
WARNING
UTILITY LOCATIONS ARE NOT SHOWN ON THIS PLAN. ANY UTILITIES FOUND OR NOTED DURING CONSTRUCTION SHALL BE RECORDED AND NOTED ON THE AS-BUILT DRAWINGS. PRIOR TO BEGINNING WORK, NOTIFY UTILITY OWNERS TO HAVE WORK AREA STAKED AND HE SHALL PROTECT OR HAVE RELOCATED AS NOTED ON THE AS-BUILT DRAWINGS. UTILITIES THAT MIGHT INTERFERE WITH CONSTRUCTION.



City of Flint
1101 S. Saginaw Street
Flint, Michigan 48502

EXISTING FLOOR PLAN
Cedar Pump Station Rehabilitation
Bearing Support & Access

Flint, Michigan 48503



| MARK | ISSUED FOR | DATE |
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| ISSUE FOR BID | 7/5/23 | |
| PERMITTING | 6/7/23 | |
| OWNER REVIEW | 5/17/23 | |

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DESIGN BY: -
CHECKED BY: -

DLZ JOB NUMBER: 1949-0188-00

SHEET NO.
V-201

811 Know what's below
3 FULL WORKING DAYS BEFORE YOU DIG CALL
Call before you dig
MISSDIG System, Inc.
1-800-482-7171 www.missdig.net



INNOVATIVE IDEAS
EXCEPTIONAL DESIGN
UNMATCHED CLIENT SERVICE

FLOOR PLAN

| | |
|------------------------------|-----|
| DRAWN BY: | DLZ |
| DESIGN BY: | - |
| CHECKED BY: | - |
| DLZ JOB NUMBER: 1949-0188-00 | |
| SHEET NO. | |
| CD-102 | |



CHIMNEY OPEN FILL SLAB DETAIL



FLOOR PLAN

* Motor Operators to be Rotork Model IQT Type 2 3 phase
480 volt with Battery Failsafe

WARNING



City of Flint
1101 S. Saginaw Street
Flint, Michigan 48502

PROPOSED FLOOR PLAN

Cedar Pump Station Rehabilitation

Bearing Support & Access
Cedar Street
Flint Michigan 48503



A horizontal scale bar with tick marks at 0, 5', and 10'. The bar is divided into alternating black and white segments. Below the bar is the word "SCALE".

| MARK | ISSUED FOR | DATE |
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| | PERMITTING | 6/7/23 |
| | OWNER REVIEW | 5/17/23 |

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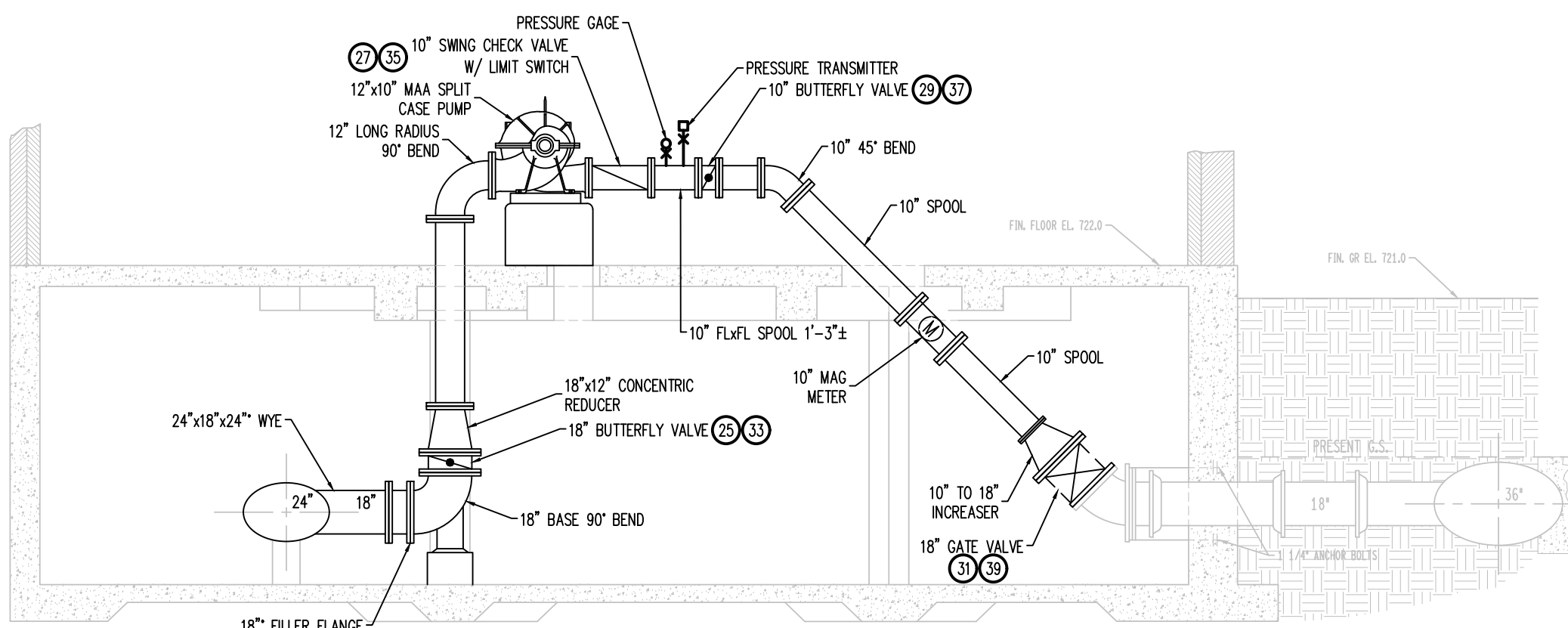
C-202

811 **3 FULL WORKING DAYS**
BEFORE YOU DIG CALL

Know what's below
Call before you dig
MISS DIG System, Inc.
1-800-482-7171 www.missdig.com



INNOVATIVE IDEAS
EXCEPTIONAL DESIGN
UNMATCHED CLIENT SERVICE



SECTION B-B

Chlorine Residual Analyzer 3 EA, Hach Model C117

| | |
|------------------------------|-----|
| DRAWN BY: | DLZ |
| DESIGN BY: | - |
| CHECKED BY: | - |
| DLZ JOB NUMBER: 1949-0188-00 | |
| SHEET NO. | |
| C-203 | |

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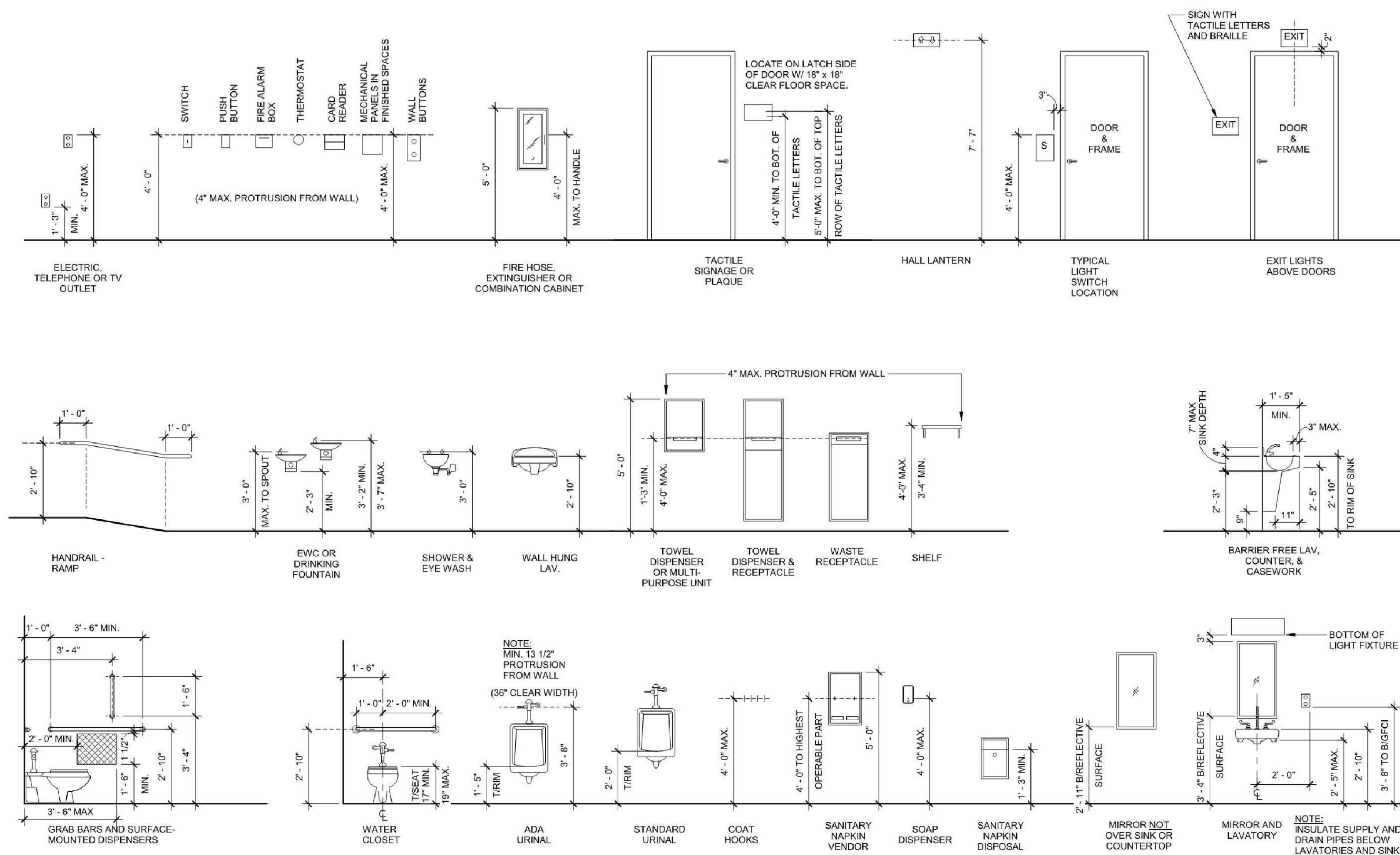
NO SCALE

C-301

UTILITY LOCATIONS ARE NOT
CONFIRMED. THOSE SHOWN
WERE OBTAINED FROM
UTILITY OWNERS OR PLANS
THREE FULL WORKING DAYS
PRIOR TO BEGINNING WORK.
THE CONTRACTOR SHALL
NOTIFY UTILITY OWNERS TO
HAVE WORK AREA STAKED
AND HE SHALL PROTECT OR
HAVE RELOCATED, AS NOTED
IN THE SPECIFICATIONS, ALL
UTILITIES THAT MIGHT
INTERFERE WITH
CONSTRUCTION.

INNOVATIVE IDEAS
EXCEPTIONAL DESIGN
UNMATCHED CLIENT SERVICE

MOUNTING HEIGHTS



ABBREVIATIONS

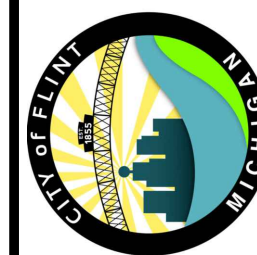
ABBREVIATIONS:

| | | | | | |
|-----------|----------------------------|------------|----------------------------------------|----------|----------------------------|
| A.B. | ANCHOR BOLT | F.W.C. | FABRIC WALL COVERING | QTY. | QUANTITY |
| A.C. | AIR CONDITIONING | FIN. | FINISH | R | THERMAL RESISTANCE |
| A.C.T | ACOUSTICAL CEILING TILE | FLR. | FLOOR | R | RISER OR RIGHT |
| A.D. | AREA DRAIN | FT. | FOOT OR FEET | R.A.D. | RADIUS |
| ADD. | ADDENDUM | FTG. | FOOTING | R.A. | RETURN AIR |
| A.F.F. | ABOVE FINISHED FLOOR | | | R.B. | RUBBER BASE |
| A.F.G. | ABOVE GRADE | G.A. | GAUGE | RBR | RUBBER |
| A.P. | ACCESS PANEL | G.C. | GENERAL CONTRACTOR | RD. | ROAD |
| A.P.C. | ACOUSTICAL PLASTER CEILING | G.R.V. | GRAVITY ROOF VENTILATOR | R.D. | ROOF DRAIN |
| A.V. | AUDIO VISUAL | GL. | GLASS | REC. | RECESSED |
| ADMIN. | ADMINISTRATION | GND. | GRADE | REF. | REFERENCE |
| AGGR. | AGGREGATE | GR. | GROUND | REV. | REVISION |
| ALT. | ALTERNATE | GYPS.BD. | GYPSUM BOARD | REM. | REMOVABLE |
| ALUM. | ALUMINUM | | | R.H. | RIGHT HAND |
| APPROX. | APPROXIMATE | H. | HIGH | R.H.R. | RIGHT HAND REVERSE |
| ARCH. | ARCHITECT (ARCHITECTURAL) | H.B. | HOSE BIBB | RCP | REINFORCED CONCRETE PIPE |
| ASPH. | ASPHALT | H.M. | HOLLOW METAL | RE: | REFER TO |
| ASSOC. | ASSOCIATE | H.O.A. | HAND-OFF-AUTOMATIC | RECEPT. | RECEPTACLE |
| AVG. | AVERAGE | H.V.A.C. | HEATING VENTILATING & AIR-CONDITIONING | RECT. | RECTANGLE OR RECTANGULAR |
| | | H.W. | HOT WATER | REFR. | REFRIGERATOR |
| B.(BOTT.) | BOTTOM | HWS | HOT WATER SUPPLY | REINF. | REINFORCE (D) (ING) (MENT) |
| BB | BOND BEAM | HWR | HOT WATER RETURN | REQD. | REQUIRED |
| B.C. | BOTTOM OF CURB | HDWD. | HARDWOOD | REV. | REVERSE |
| B.F. | BARRIER FREE | HDWR. | HARDWARE | RFG. | ROOFING |
| B.F.P. | BACK FLOW PREVENTER | HT.(HGT.) | HEIGHT | R.H. | RIGHT HAND |
| B.L. | BUILDING LINE | H.D.P. | HIGH DENSITY PARTICULATE BOARD | RHR | RIGHT HAND REVERSE |
| B.M. | BENCH MARK | HORIZ. | HORIZONTAL | RLG. | RAILING |
| B.T.U. | BRITISH THERMAL UNIT | HR. | HOUR | RM. | ROOM |
| B.U. | BUILT UP | HYD. | HYDRAULIC | R.R. | RAIL ROAD |
| BD. | BOARD | | | RT. | RIGHT |
| BTWN | BETWEEN | I.D. | INSIDE DIAMETER | ROW (RW) | RIGHT OF WAY |
| BLDG. | BUILDING | I.F. | INSIDE FACE | RVS. | REVERSE |
| BLK. | BLOCK | I.R. | INSIDE RADIUS | RWC. | RAIN WATER COLLECTOR |
| BLKG. | BLOCKING | IN. | INCH | RWL | RAIN WATER LEADER |
| BM. | BEAM | INFO. | INFORMATION | | |
| BR. | BULLET RESISTANT | INSUL. | INSULATION | S.A. | SUPPLY AIR |
| BRG. | BEARING | INT. | INTERIOR | S.A.T. | SUSPENDED ACOUSTICAL TILE |
| BRZ. | BRONZE | INV. | INVERT | S.C. | SEALED CONCRETE |
| BSMT. | BASEMENT | JAN. | JANITOR OR JANITORIAL | S.F.S. | STORE FRONT SYSTEM |
| | | J.B. | JUNCTION BOX | S.P.S. | STAND PIPE |
| C. | CONDUIT | J.CT. | JUNCTION | S. | SOUTH |
| CAB. | CABINET | JT. | JOINT | S.S. | STAINLESS STEEL |
| C.B. | CATCH BASIN | | | S. TO S. | STUD TO STUD |
| CB. | CORNER BAR | K.D. | KILN-DRIED | SHM. | SECURITY HOLLOW METAL |
| C.C. | CENTER TO CENTER | KIT. | KITCHEN | S.V. | SHEET VINYL |
| CEM. | CEMENT | K.O. | KNOCKOUT | SAN. | SANITARY |
| CER. | CERAMIC | KP. | KICK PLATE | SCHED. | SCHEDULE |
| C.F.M. | CUBIC FEET PER MINUTE | L. | LEFT | SECT. | SECTION |
| CG | CORNER GUARD | L. | LEFT | SEW. | SEWER |
| C.I. | CAST IRON | LAM. | LAMINATED | SHT. | SHEET |
| C.I.P. | CAST IRON PIPE | LAV. | LAVATORY | SHWR. | SHOWER |
| CIR. | CIRCLE OR CIRCULAR | LBS. | POUNDS | SIM. | SIMILAR |
| CJ | CONTROL JOINT | LG. | LARGE | S.O. | SECTIONAL OVERHEAD |
| CKBD. | CHALKBOARD | LGTH. | LENGTH | SPEC. | SPECIFICATIONS |
| CL | CENTERLINE | L.H. | LEFT HAND | SPKR. | SPEAKER |
| CLG. | CEILING | LFT.(L.F.) | LINEAR FEET | SO. | SQUARE |
| CLOS. | CLOSET | L.H.R. | LEFT HAND REVERSE | ST. | STEEL |
| CLR. | CLEAR | L.L. | LIVE LOAD | STD. | STANDARD |
| C.M.U. | CONCRETE MASONRY UNIT | L.O.A. | LENGTH OVER ALL | STOR. | STORAGE |
| C.O. | CLEAN OUT | LN. | LINEAR | STRUCT. | STRUCTURAL |
| COL. | COLUMN | LTG. | LIGHTING | SUSP. | SUSPENDED |
| COMP. | COMPACTED | | | SW. | SWITCH |
| COND. | CONCRETE | M.C. | MECHANICAL CONTRACTOR | | |
| COND. | CONDENSATE | M.D.P. | MAIN DISTRIBUTION PANEL | T | TEMPERED |
| CONST. | CONSTRUCTION | M.H. | MAN HOLE | T.B.B. | TOP AND BOTTOM |
| CONT. | CONTINUOUS | M.O. | MASONRY OPENING | T.&G. | TONGUE AND GROOVE |
| CONTR. | CONTRACTOR | MATL. | MATERIAL | T.C. | TOP CURB |
| COORD. | COORDINATE | MAX. | MAXIMUM | T.C.C. | TEMP. CONTROL CONTRACTOR |
| CORR. | CORRIDOR | MECH. | MECHANICAL | T.C.P. | TEMP. CONTROL PANEL |
| CORG. | CORRUGATED | MEMB. | MEMBRANE | T.P. | TEPID WATER |
| CPT. | CARPETING | MEZZ. | MEZZANINE | T.W.C. | TEPID WATER CONTROLLER |
| CSJ | CONSTRUCTION JOINT | MFR. | MANUFACTURER | TBB. | TILE BACKER BOARD |
| C.S. | CAULKING SEAM | MIN. | MINIMUM | TBL. | TELEPHONE |
| CTB | CERAMIC TILE BASE | MISC. | MISCELLANEOUS | TEMP. | TEMPERATURE |
| CTF | CERAMIC TILE FLOOR | MIX. | MIXTURE | TERR. | TERRAZZO |
| CTW | CERAMIC TILE WALL | MK. | MARK | THRU. | THROUGH |
| CTR. | CENTER OR CENTERING | M.O. | MASONRY OPENING | TKBD. | TACK BOARD |
| CU. | CUBIC | MSRY. | MASONRY | TLT. | TOILET |
| CW | COLD WATER | MTD. | MOUNTED | TLT. | TOLERANCE |
| | | MTL. | METAL | TYP. | TYPICAL |
| | | MTG. | MOUNTING | | |
| D. | DEEP | | | U | HEAT TRANSFER COEFFICIENT |
| D.F. | DRINKING FOUNTAIN | | | U.F.D. | UNDER FLOOR DUCT |
| D.L. | DEAD LOAD | N. | NORTH | U.L. | UNDER WRITER'S LABORATORY |
| D.O.V. | DRAIN SPOUT | N.(N/A) | NOT APPLICABLE | UNO | UNLESS NOTED OTHERWISE |
| DBL. | DOUBLE | N.I.C. | NOT IN CONTRACT | U.V. | UNIT VENTILATOR |
| DEG. | DEGREE | N.F. | NEAR FACE | UR. | URINAL |
| DEMO. | DEMOLISH (ED) | N.O.P. | NOT OTHERWISE PROVIDED | UTIL. | UTILITY |
| DEPT. | DEPARTMENT | NO. | NUMBER | | |
| DIA. | DIAMETER | NOM. | NOMINAL | | |
| DIM. | DIMENSION | N.T.S. | NOT TO SCALE | VVL | VINYL |
| DR. | DOOR | | | VAP | VAPOR |
| DWG. | DRAWING | OA. | OVERALL | VARS. | VARIES |
| DTL. | DETAIL | O.A. | OUTSIDE AIR | VCB | VITRIFIED CLAY PIPE |
| | | O.C. | ON CENTER | V.C.P. | VINYL COMPOSITION TILE |
| E. | EAST | O.D. | OUTSIDE DIAMETER | VERT. | VERTICAL |
| E.A. | EXHAUST AIR | O. TO O. | OUT TO OUT | VEST. | VESTIBULE |
| E.C. | ELECTRICAL CONTRACTOR | OF | OUTSIDE FACE | VENT. | VENTILATE |
| E.F. | EXHAUST FAN | OUTR. | OUTSIDE RADIUS | VF | VERIFY IN FIELD |
| E.I.F.S. | EXT. INSULATION FINISH | OVERLAD | OVERHEAD | VOL. | VOLUME |
| EJ | SYSTEM | OC. | OFFICE | V.P. | VENT PIPE |
| EMER. | EXPANSION JOINT | OH | OVERHEAD | V.S. | VENT STACK |
| E.PAN. | EMERGENCY | OPNG. | OPENING | VWC | VINYL WALL COVERING |
| E.W. | ELECTRICAL PANEL | OPP. | OPPOSITION | | |
| E.W.C. | EACH WAY | OR. | OUTSIDE RADIUS | W. | WEST |
| EL. | ELECTRIC WATER COOLER | ORIG. | ORIGINAL | W.C. | WATER CLOSET |
| ELEC. | ELEVATION | OZ. | OUNCE | WOOD | WOOD |
| ELEV. | ELECTRICAL OR ELECTRIC | | | W.F. | WASH FOUNTAIN |
| ENG. | ELEVATOR | P.A. | PIPE ANCHOR | WH | WALL HEAD |
| EQU. | ENGINEER OR ENGINEERING | P.C. | PLUMBING CONTRACTOR | W.H. | WATER HEATER |
| E.S. | EQUAL | P.D. | PRESSURE DROP | W.I. | WROUGHT IRON |
| EQUIP. | EXPOSED STRUCTURE | P.F.F. | PRE MOLDED JOINT FILLER | WP | WORKING POINT |
| ETC. | EQUIPMENT | P.R.V. | PRESSURE REDUCING VALVE | W.P. | WATERPROOFING |
| EXIST. | ET CETERA | PASS. | PASSENGER | WLD. | WELD LOAD |
| EXP. | EXISTING | PAT. | PATTERN | W.M. | WALK OFF MAT |
| EXT. | EXPANSION | PERP. | PERPENDICULAR | WS | WEATHER STRIP |
| | EXTERIOR | P.LAM. | PLASTIC LAMINATE | W.S. | WORK SINK |
| F.A.C.P. | | PLAS. | PLASTIC | W.W.F. | WELDED WIRE FABRIC |
| F.A.I. | FIRE ALARM CONTROL PANEL | PLBG. | PLUMBING | WT. | WEIGHT |
| F.C. | FRESH AIR INTAKE | PLYWD. | PLYWOOD | | |
| F.D. | FURNACE | PNEU. | PNEUMATIC | WFMR | TRANSFORMER |
| F.E. | FLOOR DRAIN | PNL. | PANEL | XFR | TRANSFER |
| F.E.C. | FIRE EXTINGUISHER | PREFAB. | PREFABRICATED | | |
| F.H.C. | FIRE EXTINGUISHER CABINET | PROJ. | PROJECT | YD. | YARD |
| F.M. | FIRE HOSE CABINET | PT. | PISTON | YGO | YARD CLEAN OUT |
| F.R. | FLOOR MOUNTED | P.CONC. | PRECAST CONCRETE SLAB | | |
| F.S. | FIN RADIATION | PTN. | PARTITION | * | DEGREE |
| F.V. | FIELD VERIFY | PV. | PAVERS | Ø | PLUS OR MINUS |
| | | PVC. | POLYVINYL CHLORIDE | Ø | DIAMETER |
| | | QCV | QUICK COUPLER VALVE | # | PLATE |
| | | Q.T. | QUARRY TILE | & | AND |
| | | QUAL. | QUALITY | x | BY |
| | | | | @ | AT |
| | | | | # | NUMBER |
| | | | | W/ | WITH |

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City of Flint
1101 S. Saginaw Street
Flint, Michigan 48502

ABBREVIATIONS & MOUNTING HEIGHTS

Cedar Pump Station Rehabilitation

Bearing Support & Access



A horizontal scale bar with alternating black and white segments. It is marked with '0' at the left end, '1'' at the first full segment end, and '2'' at the right end. Below the bar is the word 'SCALE'.

| MARK | ISSUED FOR | DATE |
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| ISSUE FOR BID | | 7/5/23 |
| PERMITTING | | 6/7/23 |
| OWNER REVIEW | | 5/17/23 |

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DESIGN BY: -
CHECKED BY: -

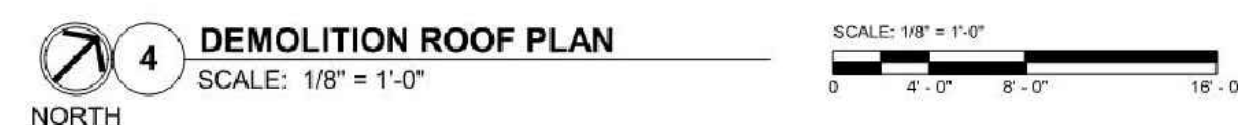
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G-005



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NEW WORK COMPOSITE PLAN & ROOF PLAN
Cedar Pump Station Rehabilitation
Bearing Support & Access Cedar Street
Flint, Michigan 48503



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| MARK | ISSUED FOR | DATE |
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| PERMITTING | | 6/7/23 |
| OWNER REVIEW | | 5/17/23 |

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7 JAMB DETAIL - COILING DOOR
SCALE: 1 1/2" = 1'-0"

6 THRESHOLD DETAIL - EXT. DOOR
SCALE: 1 1/2" = 1'-0"

3 JAMB DETAIL - TYP WINDOW.
SCALE: 1 1/2" = 1'-0"

5 JAMB DETAIL - EXT DOOR
SCALE: 1 1/2" = 1'-0"

HEAD

SILL

2 HEAD & SILL DETAIL - TYP WINDOW
SCALE: 1 1/2" = 1'-0"

4 HEAD DETAIL - EXT DOOR
SCALE: 1 1/2" = 1'-0"

SUGGESTED SEQUENCE OF INSTALLATION

1 HEAD DETAIL - COILING DOOR
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES:

- A. REFER TO G-002 PROJECT GENERAL NOTES FOR ADDITIONAL INFORMATION.
- B. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- C. FIELD VERIFY ALL DOOR DIMENSIONS. EXPOSED STRUCTURAL STEEL, METAL DECK, AND PRE-CAST CONCRETE SHALL BE PAINTED.
- D. EXPOSED DUCTWORK, PIPING AND CONDUIT SHALL BE PAINTED.

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DOOR & WINDOW DETAILS
Cedar Pump Station Rehabilitation
Bearing Support & Access
Cedar Street
Flint, Michigan 48



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| MARK | ISSUED FOR | DATE |
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| PERMITTING | | 6/7/23 |
| OWNER REVIEW | | 5/17/23 |

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SHEET NO.

A4.1

9 PARAPET DETAIL @ LOW ROOF/UPPER ROOF
SCALE: 1 1/2" = 1'-0"

TYPICAL COATED SURFACE
SCALE: 3" = 1'-0"

7 PITCH POCKET PIPE
SCALE: 1 1/2" = 1'-0"

6 PITCH POCKET (STEEL ANGLE)
SCALE: 1 1/2" = 1'-0"

MASSIVE AIR VENT
SCALE: 1 1/2" = 1'-0"

4 HEAT STACK
SCALE: 1 1/2" = 1'-0"

3 PLUMBING STACK
SCALE: 1 1/2" = 1'-0"

EXHAUST FAN
SCALE: 1 1/2" = 1'-0"


1 ROOF DRAIN
SCALE: 1 1/2" = 1'-0"

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Flint, Michigan 48502

ROOF DETAILS
Cedar Pump Station Rehabilitation
Bearing Support & Access
Cedar Street
Flint, Michigan 48303



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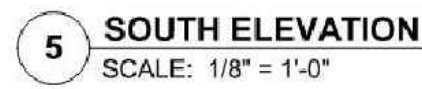
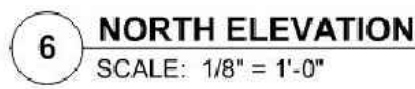
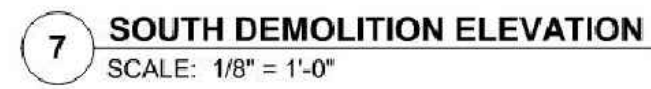
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| ISSUE FOR BID | | 7/5/23 |
| PERMITTING | | 6/7/23 |
| OWNER REVIEW | | 5/17/23 |

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DLZ JOB NUMBER: 1949-0188-00

SHEET NO.

A4.2

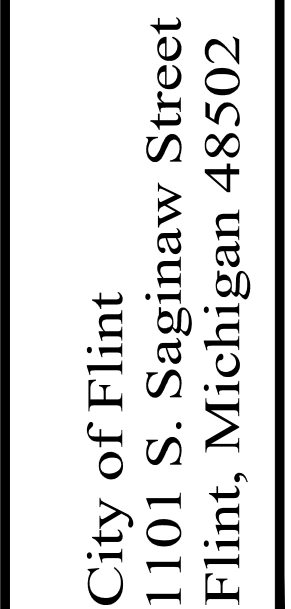


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WARNING

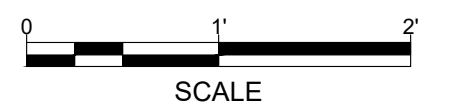
UTILITY LOCATIONS ARE NOT CONFIRMED. THOSE SHOWN WERE OBTAINED FROM UTILITY OWNERS OR PLANS. THREE FULL WORKING DAYS PRIOR TO BEGINNING WORK THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS TO HAVE WORK AREA STAKED AND HE SHALL PROTECT OR HAVE RELOCATED, AS NOTED IN THE SPECIFICATIONS, ALL UTILITIES THAT MIGHT INTERFERE WITH CONSTRUCTION.



EXTERIOR ELEVATIONS

Cedar Pump Station Rehabilitation

Bearing Support & Access
Cedar Street
Flint, Michigan 48503

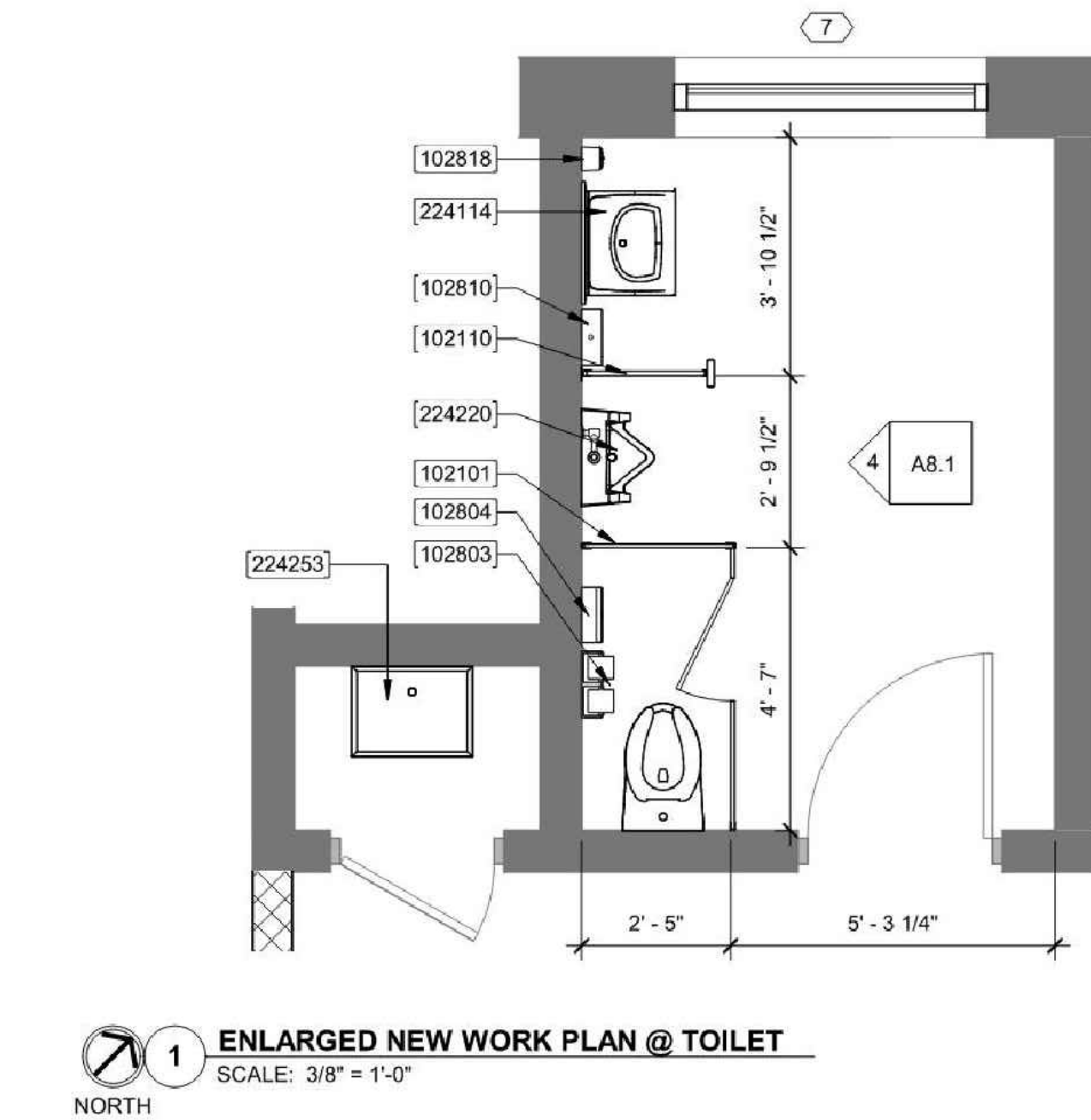
A5.1

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SCALE: 1/8" = 1'-0"



SCALE: 1/8" = 1'-0"



SCALE: 1/8" = 1'-0"



SCALE: 1/8" = 1'-0"

233104 3" COMBUSTION INTAKE THRU WALL. PROVIDE WALL VENT PER MANUFACTURER WITH INTEGRAL BUG SCREEN.

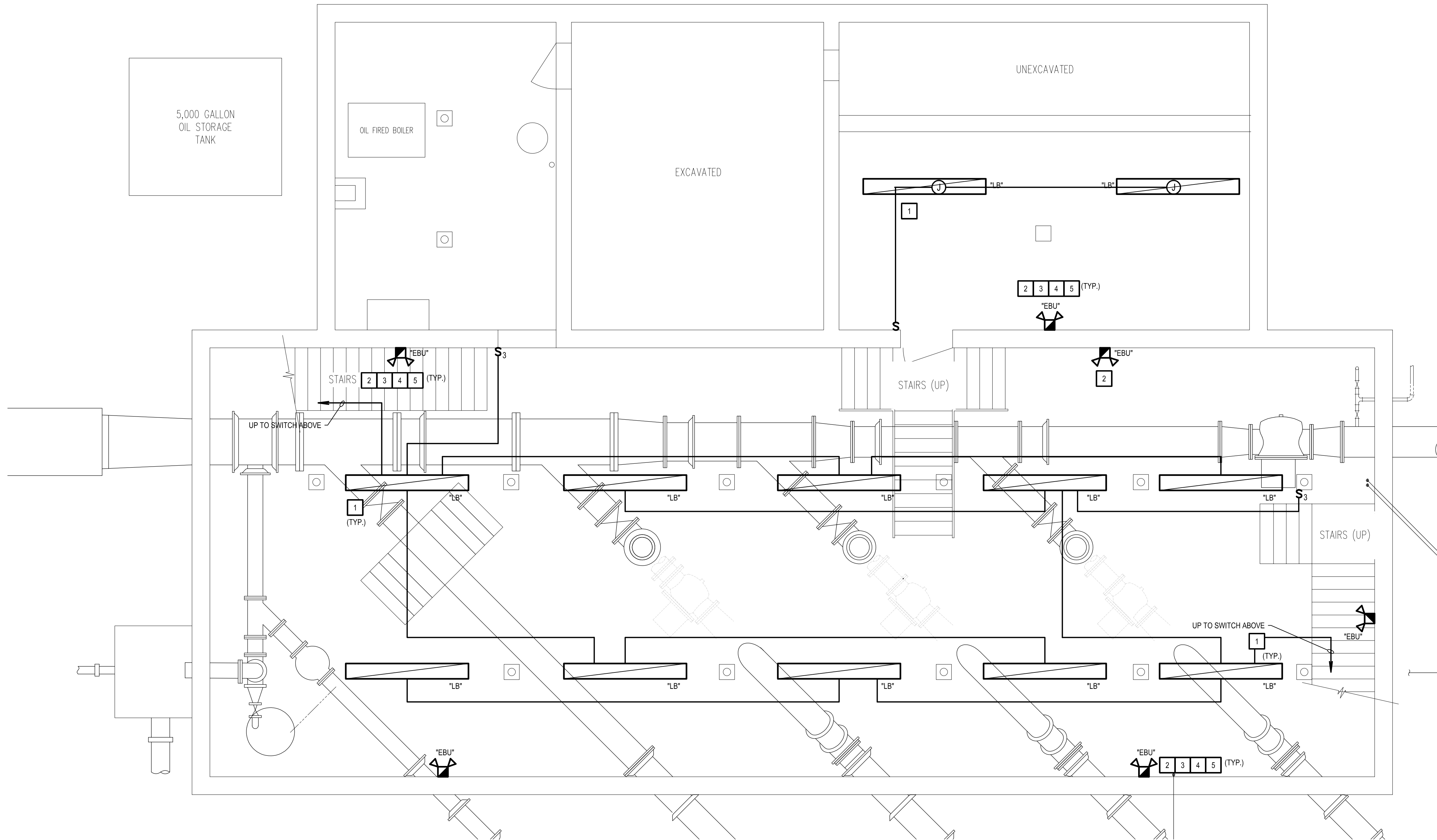
M1.1

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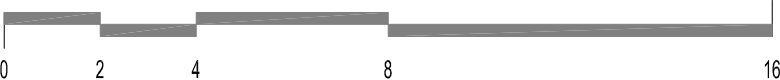
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BASEMENT FLOOR PLAN - LIGHTING

SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"



SHEET NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE AS AMENDED BY THE MICHIGAN CONSTRUCTION CODE, ELECTRICAL CODE RULES, PART 8.
- REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET EL1.0.

NEW WORK KEYED NOTES:
(APPLICABLE THIS SHEET ONLY)

- EXTEND EXISTING BRANCH CIRCUIT TO NEW LIGHTING. BASE BID, EXISTING CONDUIT AND NEW WIRING. ALTERNATE BID, NEW CONDUIT / WIRING.
- CONNECT EMERGENCY AND EXIT LIGHTING AHEAD OF LOCAL AREA SWITCH.
- REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E-0.1.
- AIM EMERGENCY LIGHTING HEADS IN FIELD FOR MAXIMUM COVERAGE.
- UTILIZE CIRCUIT TRACER TO VERIFY ALL BRANCH CIRCUITS, UPDATED PANELBOARD DIRECTORY, REFER TO PANEL SCHEDULE ON SHEET E6.1. THE BRANCH CIRCUITS ARE BASED ON EXISTING PANELBOARD DIRECTORY.

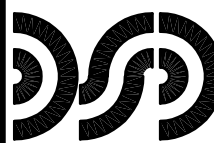


| NO. | REVISION | DATE |
|-----|--------------------|----------|
| | OWNER REVIEW | 03/26/21 |
| | FINAL OWNER REVIEW | 05/17/23 |
| | PERMITS | 06/01/23 |
| | BIDS | 07/05/23 |

| DRAWN: | ACC: | CHKD: | SM: |
|----------------|----------|-------|-----|
| DESIGNED: | SMD | | |
| APPRVD: | SM | | |
| DATE: | 06/01/23 | | |
| PROJECT NUMBER | | | |

Michigan
CITY OF FLINT
CEDAR STREET PUMP STATION RENOVATIONS
BASEMENT FLOOR PLAN - LIGHTING

Flint
DRAWING NUMBER
EL1.0
ELECTRICAL



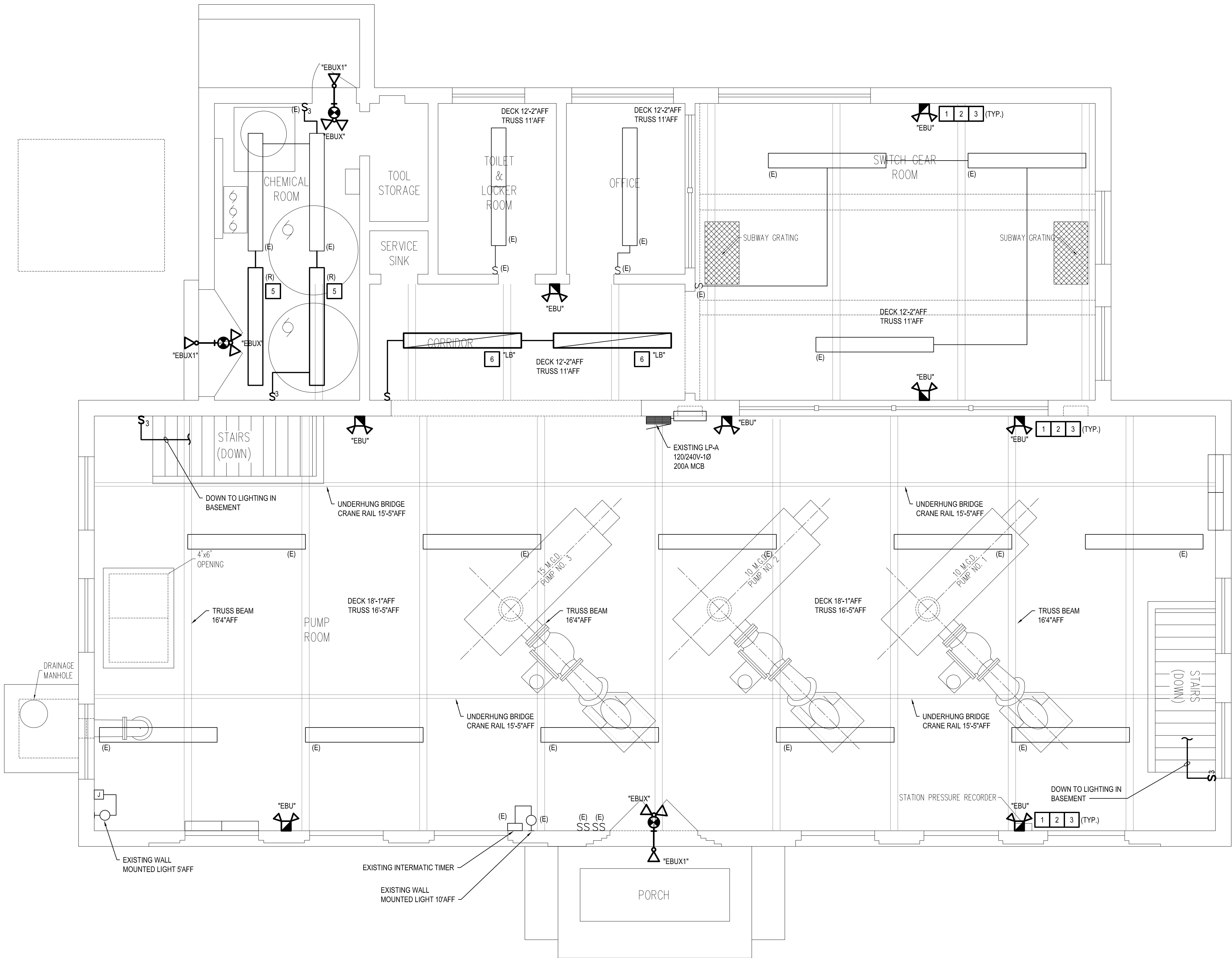
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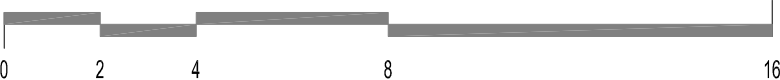
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FIRST FLOOR PLAN - LIGHTING

SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"



SHEET NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE AS AMENDED BY THE MICHIGAN CONSTRUCTION CODE, ELECTRICAL CODE RULES, PART 8.
- REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET EL1.0.

NEW WORK KEYED NOTES:
(APPLICABLE THIS SHEET ONLY)

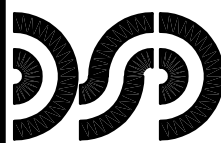
- CONNECT EMERGENCY AND EXIT LIGHTING AHEAD OF LOCAL AREA SWITCH.
- REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET E-0.1.
- AIM EMERGENCY LIGHTING HEADS IN FIELD FOR MAXIMUM COVERAGE.
- UTILIZE CIRCUIT TRACER TO VERIFY ALL BRANCH CIRCUITS, UPDATED PANELBOARD DIRECTORY, REFER TO PANEL SCHEDULE ON SHEET E6.2. THE BRANCH CIRCUITS ARE BASED ON EXISTING PANELBOARD DIRECTORY.
- REINSTALL CORRIDOR LIGHTING FIXTURES IN CHEMICAL ROOM AND CONNECT TO EXISTING CIRCUIT.
- PROVIDE NEW TYPE "LB" FIXTURES IN CORRIDOR. UTILIZE EXISTING BRANCH CIRCUIT AND PROVIDE NEW SWITCHING.



| NO. | REVISION | DATE |
|-----|--------------------|----------|
| | OWNER REVIEW | 03/26/21 |
| | FINAL OWNER REVIEW | 05/17/23 |
| | PERMITS | 06/01/23 |
| | BIDS | 07/05/23 |

| | |
|----------|---------------------------------------|
| Michigan | CITY OF FLINT |
| Flint | CEDAR STREET PUMP STATION RENOVATIONS |
| | FIRST FLOOR PLAN - LIGHTING |

| | | |
|----------------|-------|------------|
| DRAWING NUMBER | EL1.1 | ELECTRICAL |
|----------------|-------|------------|



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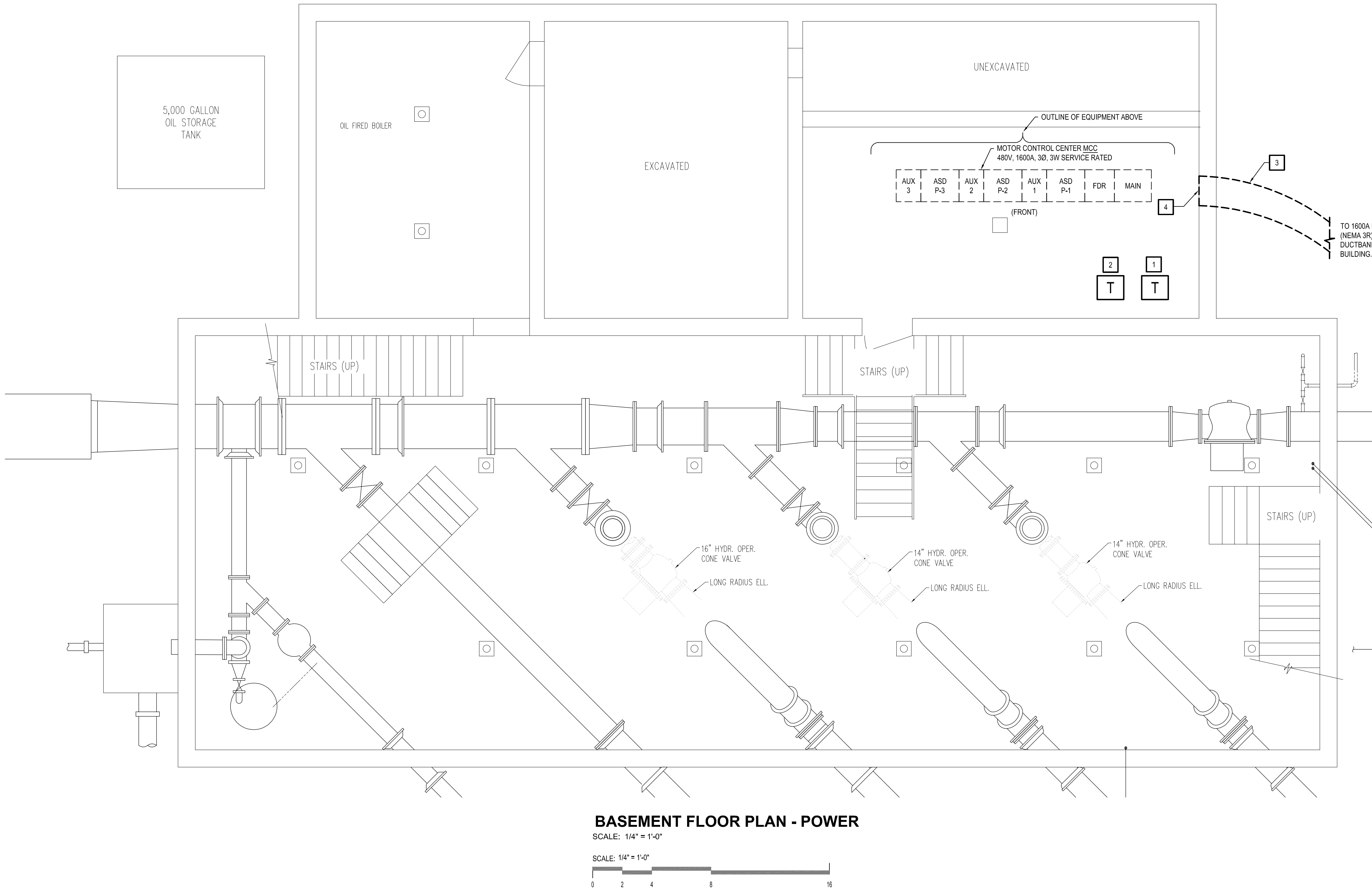
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19-1304 EL1.1.dwg

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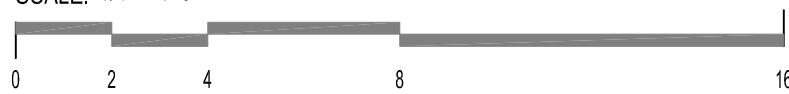
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BASEMENT FLOOR PLAN - POWER

SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"



SHEET NOTES:

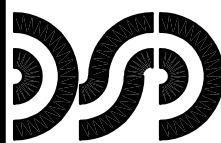
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE AS AMENDED BY THE MICHIGAN CONSTRUCTION CODE, ELECTRICAL CODE RULES, PART 8.

NEW WORK KEYED NOTES:

(APPLICABLE THIS SHEET ONLY)

- 1 PROVIDE 45KVA DRY TYPE TRANSFORMER ON EXISTING PAD FOR EXISTING 240V-3Ø POWER PANEL PP-A.
- 2 PROVIDE 37.5KVA DRY TYPE TRANSFORMER ON EXISTING PAD FOR EXISTING 120/240V-1Ø LIGHTING PANEL LP-A.
- 3 CONCRETE ENCASED DUCTBANK WITH 1600A FEEDER.
- 4 CORE DRILL CONCRETE WALL FOR NEW DUCTBANK.

TO 1600A MAIN CIRCUIT BREAKER / MTS (NEMA 3R), REFER TO SHEET E6.1, SLOPE DUCTBANK DOWNWARD AND AWAY FROM BUILDING.



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DRAWING NUMBER

EP2.0

ELECTRICAL

Michigan

CITY OF FLINT

CEDAR STREET PUMP STATION RENOVATIONS

BASEMENT FLOOR PLAN - POWER

DRAWN: ACC

CHK'D: SM

NO.

REVISION

OWNER REVIEW

FINAL OWNER REVIEW

PERMITS

BIDS

DATE

03/26/21

05/17/23

06/01/23

07/05/23

PROJECT NUMBER

DATE: 06/01/23

APPROVD: SM

DESIGNED: SMD

DATE

03/26/21

05/17/23

06/01/23

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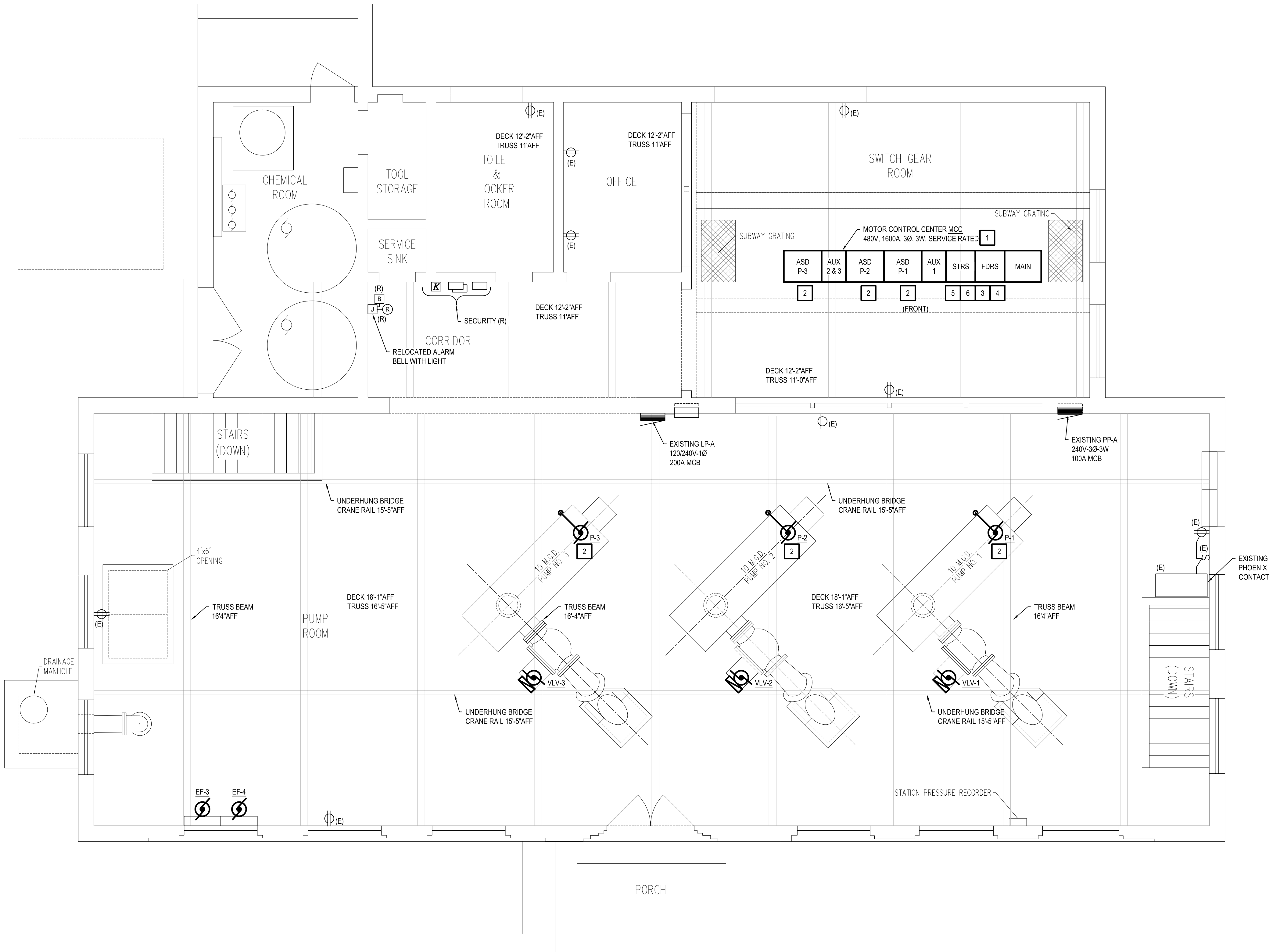
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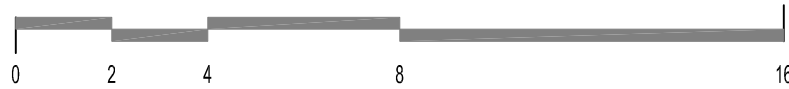
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FIRST FLOOR PLAN - POWER

SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"



SHEET NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE AS AMENDED BY THE MICHIGAN CONSTRUCTION CODE, ELECTRICAL CODE RULES, PART 8.

NEW WORK KEYED NOTES:

(APPLICABLE THIS SHEET ONLY)

- 1 FURNISH AND INSTALL ALLEN BRADLEY 1600A, 480V-3Ø, 3W SERVICE RATED MOTOR CONTROL CENTER (MCC)
- 2 PROVIDE MOTOR FEEDERS FROM MCC TO MOTOR. REFER TO SHEET E-6.1. PROVIDE I/O CONNECTION IN EACH ASD DRIVE SECTION FOR I/O TO BE TRANSMITTED TO EXISTING PLC VIA ETHERNET CONNECTION.
- 3 PROVIDE FEEDER FROM MCC TO 37.5-KVA TRANSFORMER (RP-A) ON FLOOR BELOW. REFER TO EP-2.0 FOR LOCATION AND ONE-LINE DIAGRAM, SHEET E-6.1.
- 4 PROVIDE FEEDER FROM MCC TO 45-KVA TRANSFORMER (RP-B) ON FLOOR BELOW. REFER TO EP-2.0 FOR LOCATION AND ONE-LINE DIAGRAM, SHEET E-6.1.
- 5 PROVIDE BRANCH CIRCUITS WITH CONTROL LEADS FROM MCC TO EF-3 AND EF-4.
- 6 PROVIDE BRANCH CIRCUITS WITH CONTROL LEADS FROM MCC TO INTAKE AND DISCHARGE VALVES.

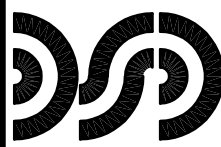


| DATE | REVISION | NO. |
|----------|--------------------|-----|
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| 05/17/23 | FINAL OWNER REVIEW | |
| 06/01/23 | PERMITS | |
| 07/05/23 | BIDS | |

| DRAWN: ACC | CHKD: SM |
|----------------|----------|
| DESIGNED: SMD | |
| APPRVD: SM | |
| DATE: 06/01/23 | |
| PROJECT NUMBER | |

Michigan
CITY OF FLINT
CEDAR STREET PUMP STATION RENOVATIONS
FIRST FLOOR PLAN - POWER

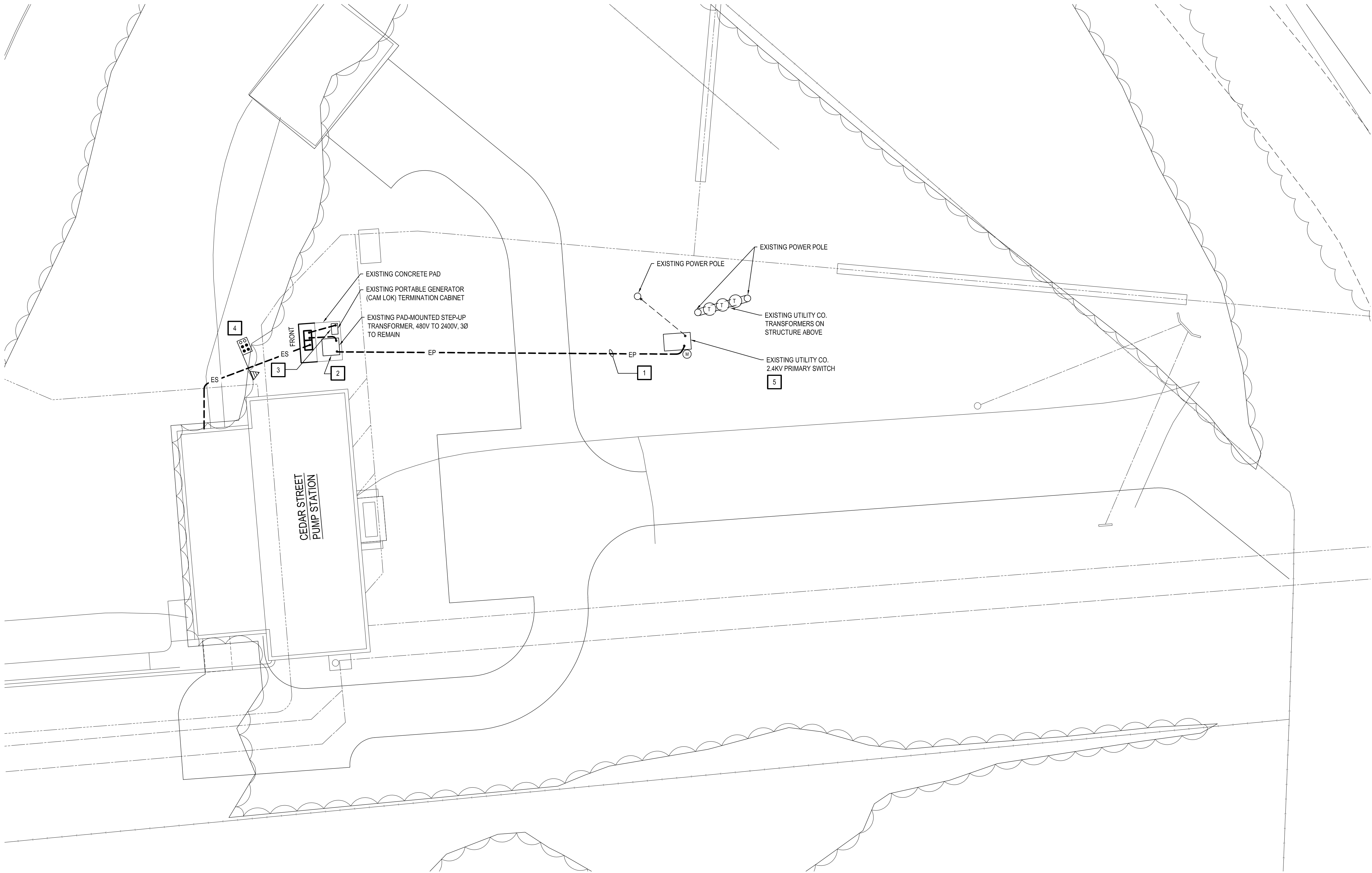
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| Project No. 19-1304.01 |
| ACDPR# 19-1304 EP2.1.dwg |

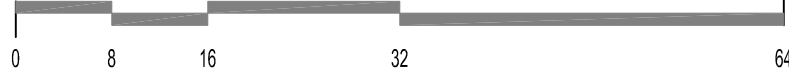
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SITE PLAN - POWER

SCALE: 1/16" = 1'-0"

SCALE: 1/16" = 1'-0"



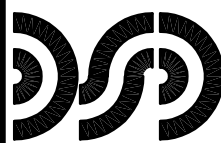
SHEET NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE AS AMENDED BY THE MICHIGAN CONSTRUCTION CODE, ELECTRICAL CODE RULES, PART 8.

NEW WORK KEYED NOTES:

(APPLICABLE THIS SHEET ONLY)

- 1 PROVIDE PRIMARY FEEDER FROM EXISTING 2.4KV FUSED C.E. CO. SWITCH TO PAD-MOUNTED TRANSFORMER. REFER TO SHEET E-6.1.
- 2 EXISTING 1500KVA, 2400V-480V, PAD-MOUNTED TRANSFORMER FOR SERVICE TO EXISTING 1600A, 480V-3Ø, SWITCHBOARD.
- 3 EXISTING PORTABLE GENERATOR "CAM-LOK" TERMINATION CABINET (NEMA-3R)
- 4 PROVIDE 1600A SECONDARY FEEDER IN A CONCRETE ENCASED DUCTBANK FROM PAD-MOUNTED MTS / 1600A MAIN SWITCH TO 1600A, 480V SERVICE-RATED MOTOR CONTROL CENTER (MCC). REFER TO SHEET E-6.1.
- 5 PROVIDE NEW FUSING AT C.E. CO. PARK METAL SWITCH (COORDINATE REQUIREMENTS WITH C.E. CO.



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SITE PLAN - POWER

NO.

DRAWN: ACC

CHK'D: SM

DESIGNED: SMD

APPR'D: SM

DATE: 08/01/23

PROJECT NUMBER

REVISION

OWNER REVIEW

FINAL OWNER REVIEW

PERMITS

BIDS

DATE

03/26/21

05/17/23

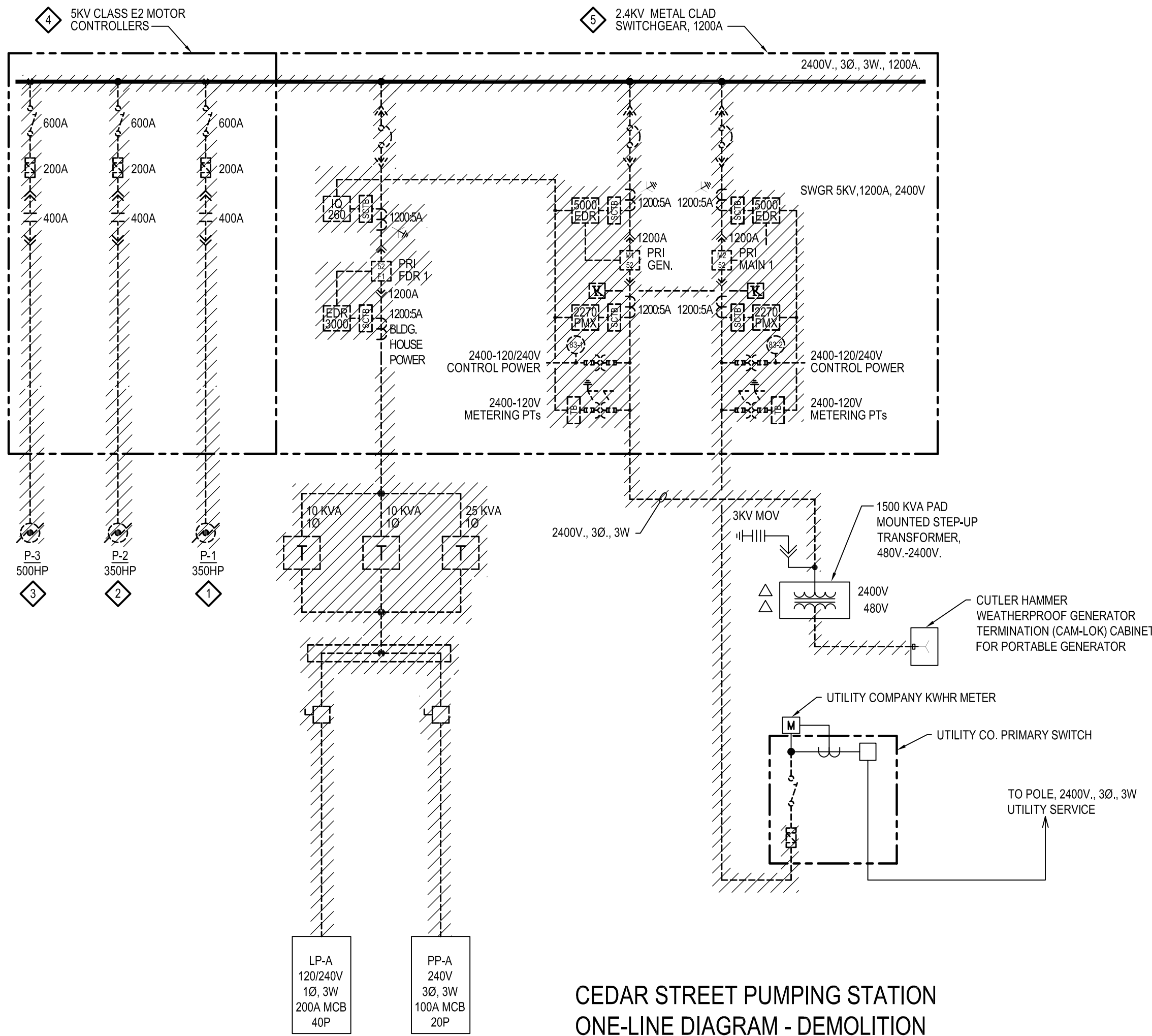
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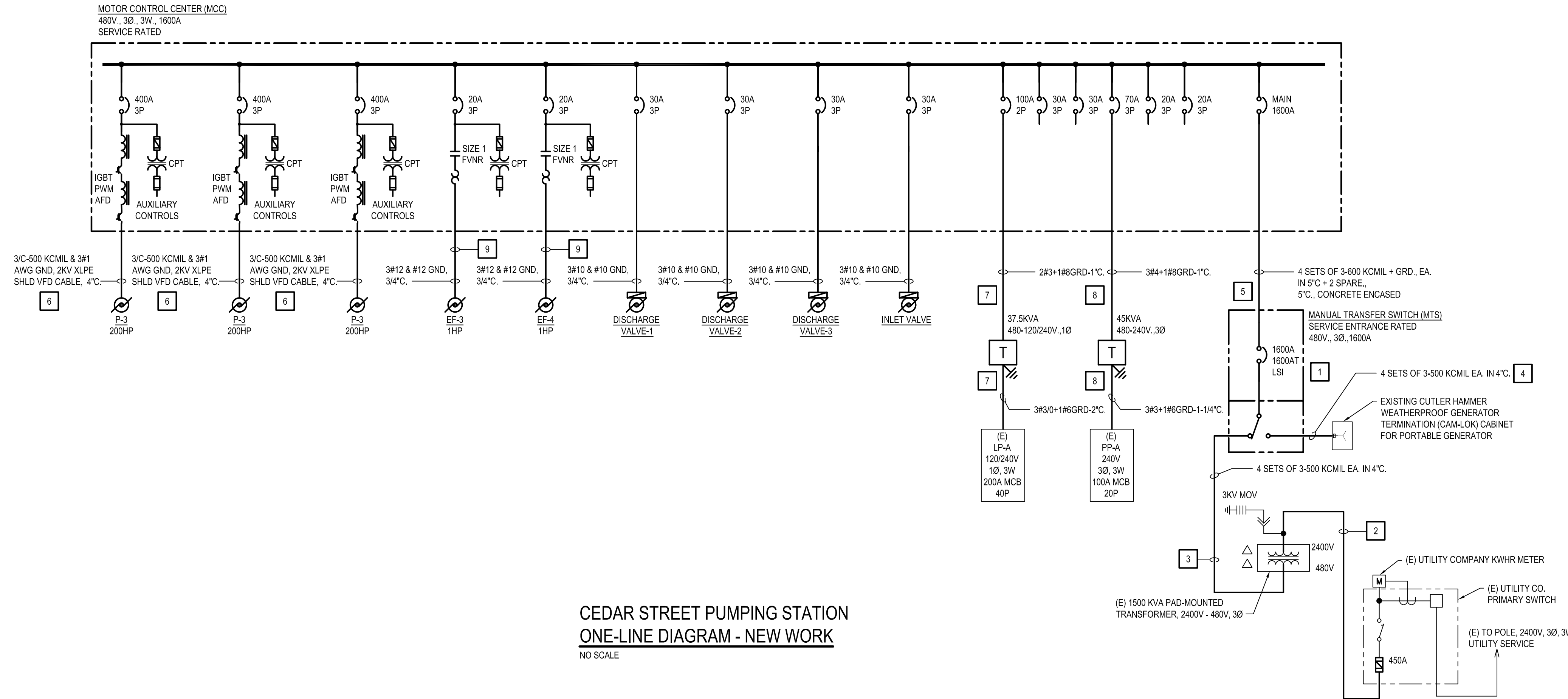


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CEDAR STREET PUMPING STATION
ONE-LINE DIAGRAM - DEMOLITION
NO SCALE



CEDAR STREET PUMPING STATION
ONE-LINE DIAGRAM - NEW WORK
NO SCALE

| 120/240VOLT-1PHASE-3WIRE+GRND PANELBOARD SCHEDULE | | | | | | | | | |
|---------------------------------------------------|----|-------------------------------------------------|----|----|------------------------------------------------|----|---------|----|-----------|
| PANELBOARD DESIGNATION LP-A | | | | | LOCATION PUMP ROOM | | | | |
| 200 AMP BUS 200A M.C.B. M.L.O. | | | | | MOUNTING: FLUSH SURFACE X | | | | |
| SPECIAL REQUIREMENTS | | | | | | | | | |
| CRT NO. | VA | LOAD TYPE | | | LOAD TYPE | VA | CRT NO. | VA | LOAD TYPE |
| 1 | | SPARE | 20 | 20 | FLOOD LIGHTS NORTHWEST WALL | | 2 | | |
| 3 | | CONE VALVE SOLENOIDS | 20 | 20 | HALL LIGHTS | | 4 | | |
| 5 | | OFFICE LGTS, TOILET RM LGTS, SWITCHGEAR RM LGTS | 20 | 20 | CL DETECTORS | | 6 | | |
| 7 | | PUMP CONTROL RELAYS IN SWITCHGEAR | 20 | 20 | OFFICE RECEPTACLES | | 8 | | |
| 9 | | SOUTH RECEPTACLES | 20 | 20 | QUINDAR PANEL | | 9 | | |
| 11 | | MAIN FLOOR | 20 | 20 | UNKNOWN | | 10 | | |
| 13 | | BASEMENT LIGHTS & RECEPTACLES | 20 | 20 | PLC | | 12 | | |
| 15 | | BOILER | 20 | 20 | SW ROOM RECEPTS, BATTERY CHARGER, NW PUMP ROOM | | 14 | | |
| 17 | | SPARE | 20 | 20 | BASEMENT LIGHTS | | 16 | | |
| 19 | | BOILER ROOM LIGHTS | 20 | 20 | LIGHTS AT TRANSFORMER TOWER | | 18 | | |
| 21 | | FLOOD LIGHTS NORTH | 20 | 20 | UNKNOWN | | 20 | | |
| 23 | | UNKNOWN | 20 | 20 | ENTRY SIDE LIGHTS VENTURI METER RECEPTS. | | 22 | | |
| 25 | | UNKNOWN | 20 | 20 | UNKNOWN | | 24 | | |
| 27 | | UNKNOWN | 20 | 20 | FILL VALVE STARTER CONTROL CIRCUIT | | 26 | | |
| 29 | | UNKNOWN | 20 | 20 | UNKNOWN | | 28 | | |
| 31 | | UNKNOWN | 20 | 20 | FLOOD LIGHTS SOUTH | | 30 | | |
| 33 | | UNKNOWN | 20 | 20 | SPARE | | 32 | | |
| 35 | | PUMP ROOM HEATERS | 20 | 20 | UNKNOWN | | 34 | | |
| 37 | | UNKNOWN | 20 | 20 | VIDEO SECURITY SYSTEM | | 36 | | |
| 39 | | SURGE ARRESTORS | 20 | 20 | CHLORINE PUMPS | | 38 | | |
| 41 | | UNKNOWN | 20 | 20 | SPACE | | 40 | | |
| 43 | | SPACE | 20 | 20 | SPACE | | | | |
| LIGHTING VA AT % = VA | | | | | | | | | |
| RECEPTACLE VA AT % = VA | | | | | | | | | |
| RECEPTACLE VA AT % = VA | | | | | | | | | |
| MISC. VA AT 100 % = VA | | | | | | | | | |
| TOTAL VA TOTAL DEMAND = VA | | | | | | | | | |
| 240 V = A | | | | | | | | | |

| 240 VOLT-3PHASE-3WIRE+GRND PANELBOARD SCHEDULE | | | | | | | | | |
|----------------------------------------------------------|----|--------------------|--------------|----------|-----------|--------------------------|---------------------------|---------|---------|
| PANELBOARD DESIGNATION | | | PPA | LOCATION | PUMP ROOM | | | | |
| 100 AMP BUS | | | 100 | M.C.B. | M.L.O. | MOUNTING: FLUSH | | X | SURFACE |
| SPECIAL REQUIREMENTS | | | | | | | | | |
| CRT NO. | VA | LOAD TYPE | | | | LOAD TYPE | VA | CRT NO. | |
| 1 | - | HOT WATER HEATER | | | | SPACE | - | 2 | |
| 3 | - | | | | | | - | 4 | |
| 5 | - | | | | | SUMP PUMP | - | 6 | |
| 7 | - | SPACE | | | | | - | 8 | |
| 9 | - | | | | | | - | 10 | |
| 11 | - | | | | | SWITCHGEAR | - | 12 | |
| 13 | - | CONE VALVE TO FILL | | | | | - | 14 | |
| 15 | - | | | | | | - | 16 | |
| 17 | - | | | | | | - | 18 | |
| 19 | - | AIR COMPRESSOR | | | | VENTURI PIT - YARD VALVE | - | 20 | |
| | | | | | | | | | |
| LIGHTING | | | VA | AT | % | = | VA | | |
| RECEPTACLE | | VA | AT | % | = | VA | (FIRST 10,000 VA AT 100%) | | |
| RECEPTACLE | | VA | AT | % | = | VA | | | |
| MISC. | | VA | AT | % | = | VA | | | |
| TOTAL | | VA | TOTAL DEMAND | = | VA | 416 | V | = A | |
| ALL CIRCUIT BREAKERS ARE 20A-1P, UNLESS NOTED OTHERWISE. | | | | | | | | | |

ALL CIRCUIT BREAKERS ARE 20A-1P, UNLESS NOTED OTHERWISE.

SHEET NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE AS AMENDED BY THE MICHIGAN CONSTRUCTION CODE, ELECTRICAL CODE RULES, PART 8.

DEMOLITION KEYED NOTES:

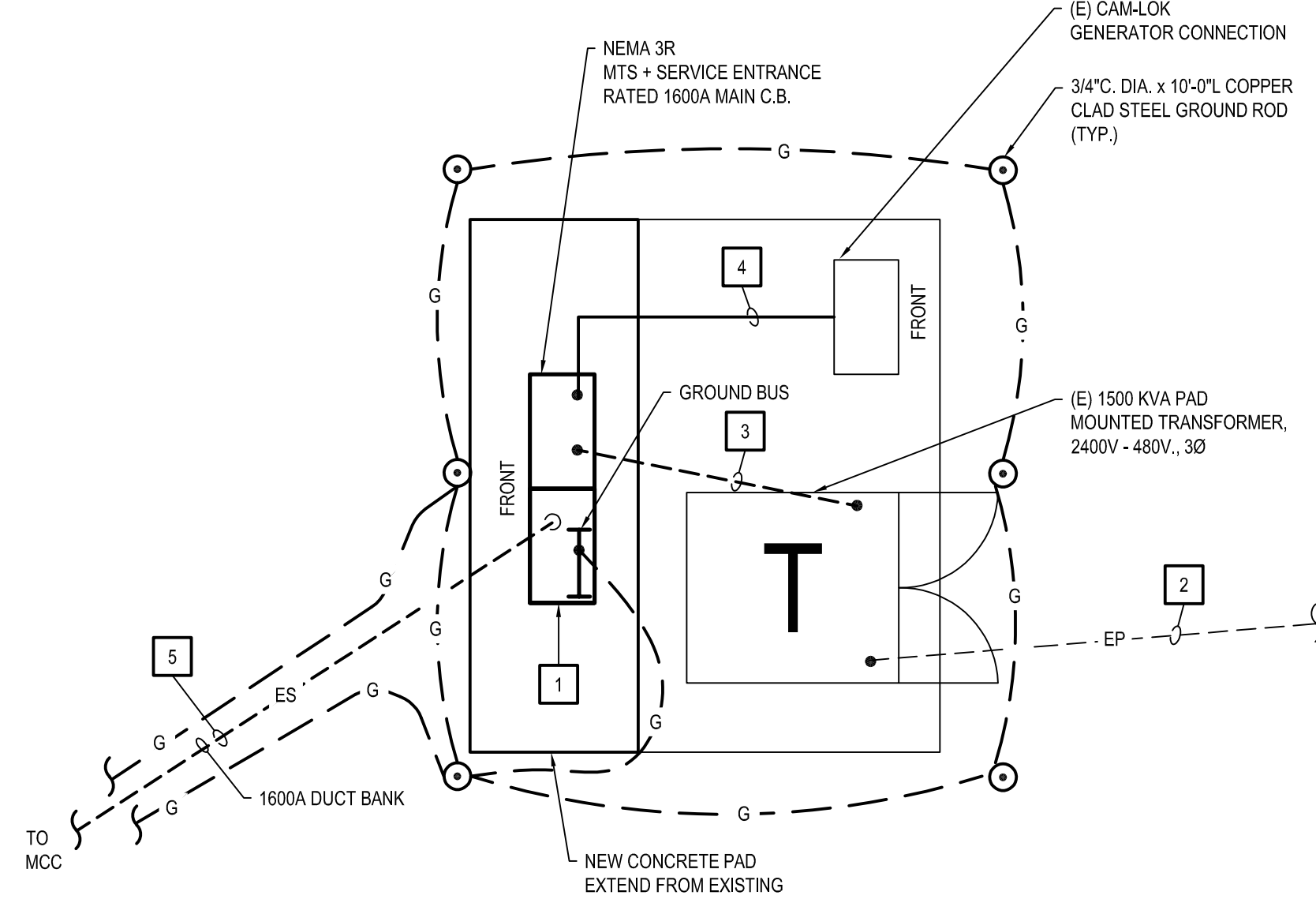
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- DISCONNECT AND REMOVE 2400V SERVICE TO PUMP P-1.
- DISCONNECT AND REMOVE 2400V SERVICE TO PUMP P-2.
- DISCONNECT AND REMOVE 2400V SERVICE TO PUMP P-3.
- DISCONNECT AND REMOVE MEDIUM VOLTAGE STARTERS SERVING P-1, P-2, AND P-3.
- DISCONNECT AND REMOVE 2400V METAL CLAD SWITCHGEAR.

NEW WORK KEYED NOTES:

(APPLICABLE THIS SHEET ONLY)

- FURNISH AND INSTALL PAD-MOUNTED MANUAL TRANSFER SWITCH (MTS) AND 1600A SERVICE-RATED MAIN SWITCH IN NEMA 3R CABINET FOR SERVICE TO NEW 1600A, 480V, 3Ø, 3W SERVICE-RATED MOTOR CONTROL CENTER (MCC).
- PROVIDE PRIMARY FEEDER FROM EXISTING C.E. CO. FUSED SWITCH TO PAD-MOUNTED TRANSFORMER.
- PROVIDE 1600A SECONDARY FEEDER FROM PAD-MOUNTED TRANSFORMER SECONDARY TO NEW 1600A 480V-3Ø MTS.
- PROVIDE 1600A SECONDARY FEEDER FROM EXISTING PORTABLE GENERATOR TERMINATION (CAM-LOK) CABINET TO NEW 1600A, 480V-3Ø MTS.
- PROVIDE CONCRETE ENCASED DUCTBANK, 1600A FEEDER, GROUNDING AND SPARE CONDUITS.
- PROVIDE VFD TYPE MOTOR FEEDERS FROM MCC TO MOTORS.
- PROVIDE SINGLE-PHASE DRY-TYPE TRANSFORMER AND ASSOCIATED FEEDERS IN GRS CONDUIT FROM MCC TO TRANSFORMER AND FROM TRANSFORMER TO EXISTING LIGHTING PANEL LP-A.
- PROVIDE THREE-PHASE DRY-TYPE TRANSFORMER AND ASSOCIATED FEEDERS IN GRS CONDUIT FROM MCC TO TRANSFORMER AND FROM TRANSFORMER TO EXISTING POWER PANEL PP-A.
- PROVIDE BRANCH CIRCUIT WITH CONTROL LEADS FROM MCC TO EXHAUST FAN. REFER TO MECHANICAL FOR CONTROL REQUIREMENTS.



PAD MOUNTED TRANSFORMER, MTS AND MAIN
SWITCH
NO SCALE



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| PERMITS | 06/01/23 | |
| BIDS | 07/05/23 | |

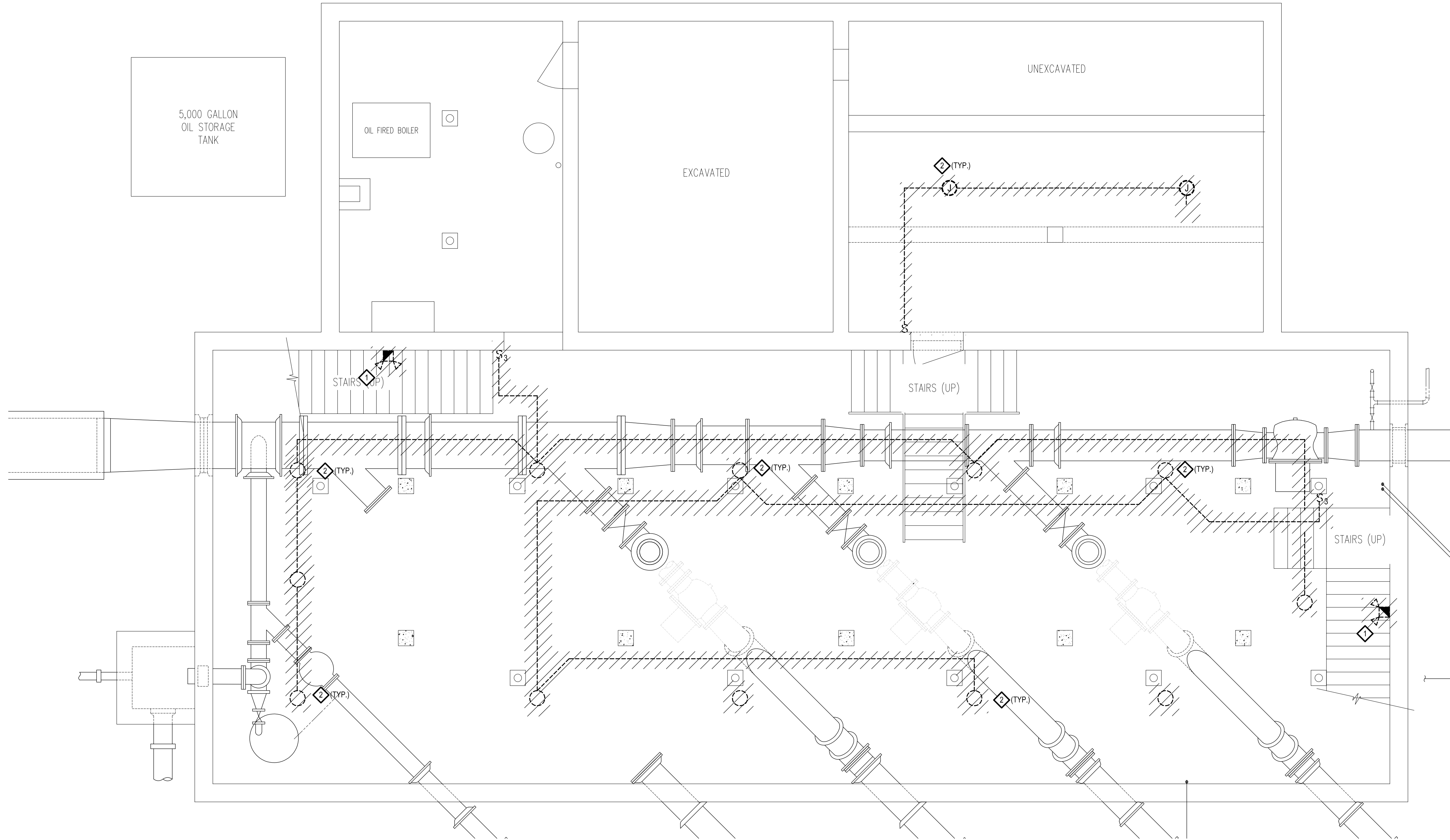
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| APPR'D | SM | | |
| DATE | 08/01/23 | | |
| PROJECT NUMBER | | | |

Michigan
CITY OF FLINT
CEDAR STREET PUMP STATION RENOVATIONS
ONE LINE DIAGRAMS

Flint
DRAWING NUMBER
E6.1
ELECTRICAL

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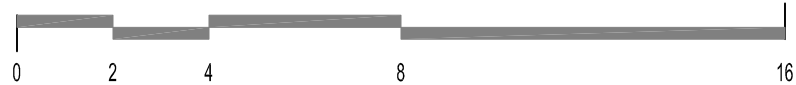
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BASEMENT FLOOR PLAN - LIGHTING DEMOLITION

SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"



SHEET NOTES:

1. UTILIZE CIRCUIT TRACER TO VERIFY ALL BRANCH CIRCUITS PRIOR TO DEMOLITION.

DEMOLITION KEYED NOTES:
(APPLICABLE THIS SHEET ONLY)

1. DISCONNECT, REMOVE, AND PROPERLY DISPOSE EMERGENCY BATTERY UNITS AND EXIT SIGNS, REMOVE BRANCH CIRCUIT (CONDUIT / WIRING) BACK TO SOURCE.
2. DISCONNECT, REMOVE, AND PROPERLY DISPOSE LIGHTING POLE, AND LUMINAIRE, REMOVE WIRING ENTIRELY BACK TO SOURCE, SEAL OPENING THRU GROUND WITH RIGID GALVANIZED STEEL PLATE AND MAKE WATER TIGHT.

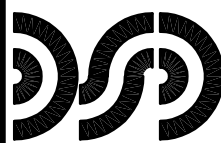


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| | OWNER REVIEW | 03/26/21 |
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| DESIGNED: SMD | |
| APPR'D: SM | |
| DATE: 06/01/23 | |
| PROJECT NUMBER | |

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|----------|-------------------------------------------|
| Michigan | CITY OF FLINT |
| | CEDAR STREET PUMP STATION RENOVATIONS |
| | BASEMENT FLOOR PLAN - LIGHTING DEMOLITION |

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| DRAWING NUMBER | ELD1.0 |
| | ELECTRICAL |



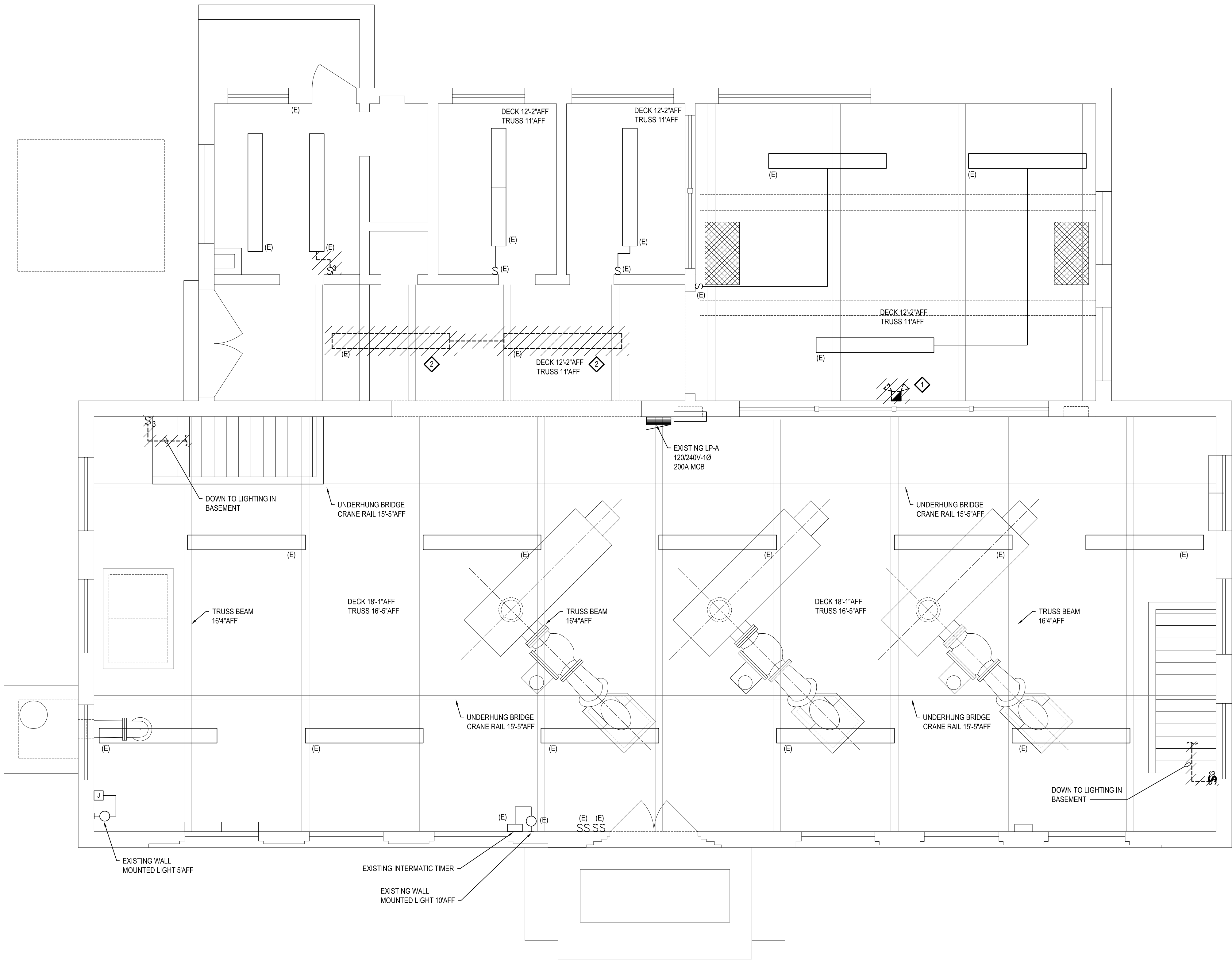
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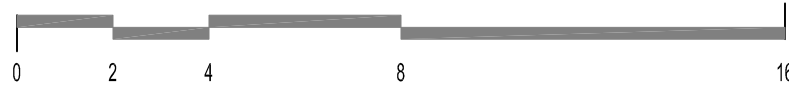
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FIRST FLOOR PLAN - LIGHTING DEMOLITION

SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"



SHEET NOTES:

1. UTILIZE CIRCUIT TRACER TO VERIFY ALL BRANCH CIRCUITS PRIOR TO DEMOLITION.

DEMOLITION KEYED NOTES:
(APPLICABLE THIS SHEET ONLY)

- 1. DISCONNECT, REMOVE, AND PROPERLY DISPOSE EMERGENCY BATTERY UNITS AND EXIT SIGNS, REMOVE BRANCH CIRCUIT (CONDUIT / WIRING) BACK TO SOURCE.
- 2. DISCONNECT, REMOVE, RELOCATE AND RECONNECT EXISTING CORRIDOR LIGHTING FIXTURES TO NEW CHEMICAL ROOM. REFER TO SHEET EL-1.1.

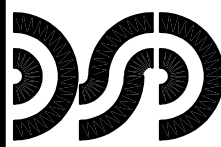


| NO. | REVISION | DATE |
|-----|--------------------|----------|
| | OWNER REVIEW | 03/26/21 |
| | FINAL OWNER REVIEW | 05/17/23 |
| | PERMITS | 06/01/23 |
| | BIDS | 07/05/23 |

| DRAWN: | ACC: | CHK'D: | SM: |
|----------------|----------|--------|-----|
| DESIGNED: | SM: | | |
| APPR'D: | SM: | | |
| DATE: | 06/01/23 | | |
| PROJECT NUMBER | | | |

| | |
|----------|----------------------------------------|
| Michigan | CITY OF FLINT |
| Flint | CEDAR STREET PUMP STATION RENOVATIONS |
| | FIRST FLOOR PLAN - LIGHTING DEMOLITION |

| DRAWING NUMBER | ELD1.1 | ELECTRICAL |
|----------------|--------|------------|
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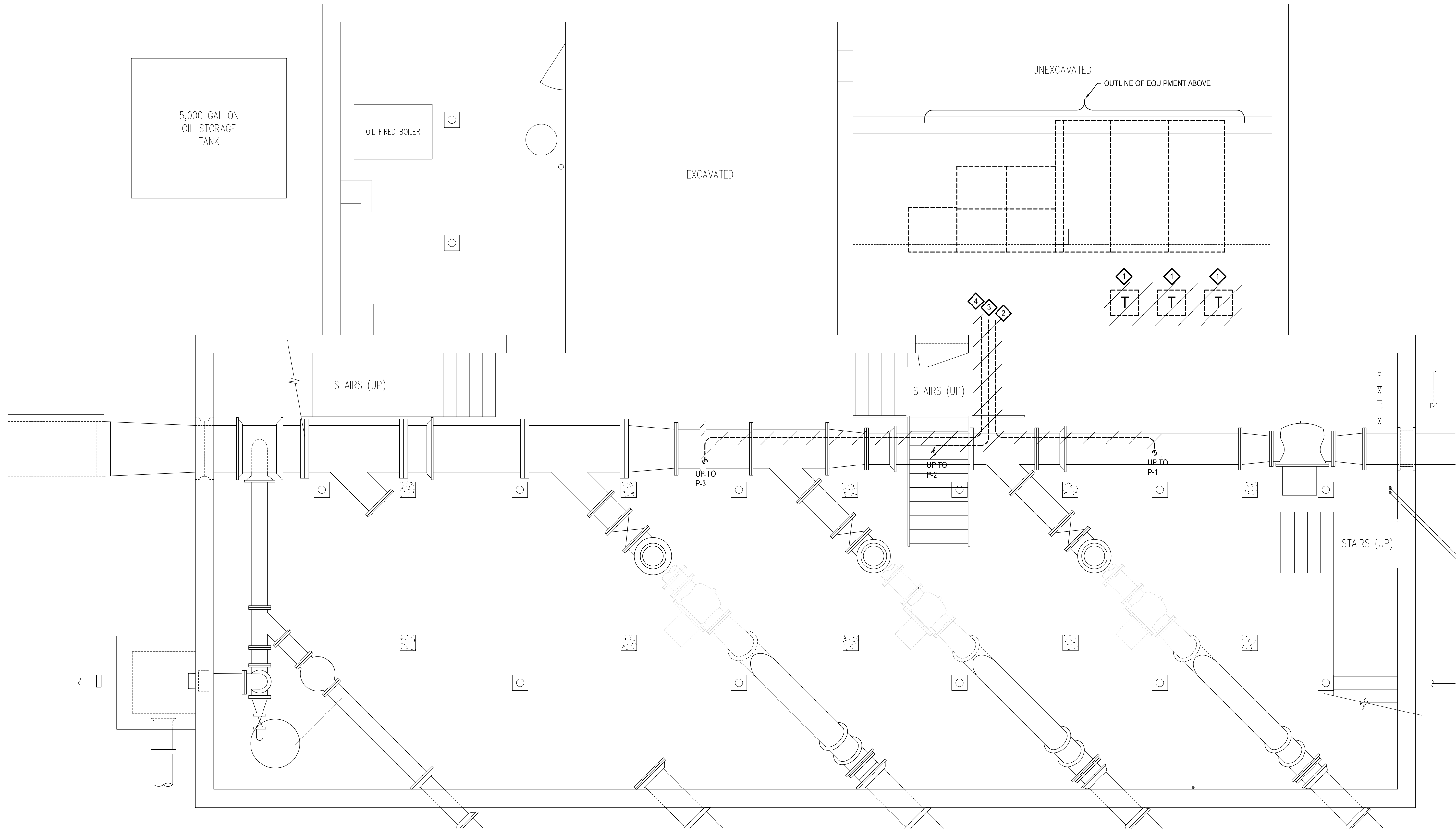
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Project No.
19-1304.01

ACDPR#
19-1304 ELD1.1.dwg

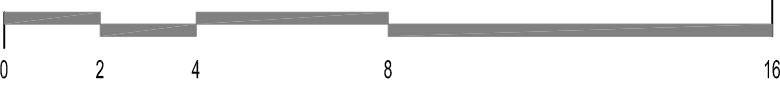
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BASEMENT FLOOR PLAN - POWER DEMOLITION

SCALE: 1/4" = 1'-0"

SCALE: 1/4" = 1'-0"



SHEET NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE AS AMENDED BY THE MICHIGAN CONSTRUCTION CODE, ELECTRICAL CODE RULES, PART 8.

DEMOLITION KEYED NOTES:
(APPLICABLE THIS SHEET ONLY)

- 1 DISCONNECT AND REMOVE SINGLE PHASE TRANSFORMER, AND ASSOCIATED FEEDER BACK TO SOURCE ENTIRELY INCLUDING ALL FEEDER SUPPORT STRUCTURES, PORCELAIN INSULATORS, ETC.
- 2 DISCONNECT AND REMOVE P-1 AND ASSOCIATED 2.4KV FEEDER BACK TO SOURCE.
- 3 DISCONNECT AND REMOVE P-2 AND ASSOCIATED 2.4KV FEEDER BACK TO SOURCE.
- 4 DISCONNECT AND REMOVE P-3 AND ASSOCIATED 2.4KV FEEDER BACK TO SOURCE.



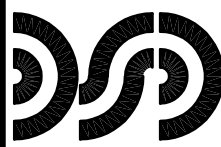
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| | OWNER REVIEW | 03/26/21 |
| | FINAL OWNER REVIEW | 05/17/23 |
| | PERMITS | 06/01/23 |
| | BIDS | 07/05/23 |

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| DRAWN: ACC | CHKD: SM |
| DESIGNED: SMD | |
| APPRVD: SM | |
| DATE: 06/01/23 | |
| PROJECT NUMBER | |

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|----------|----------------------------------------|
| Michigan | CITY OF FLINT |
| Flint | CEDAR STREET PUMP STATION RENOVATIONS |
| | BASEMENT FLOOR PLAN - POWER DEMOLITION |

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| DRAWING NUMBER | ED2.0 |
| | ELECTRICAL |



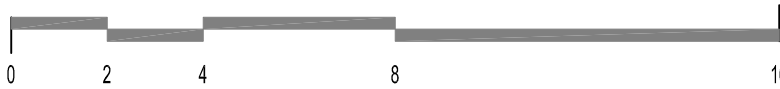
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7 DISCONNECT AND REMOVE PUMP P-3 AND ASSOCIATED FEEDER BACK TO SOURCE.



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| DRAWING NUMBER | ED2.1 | ELECTRICAL |
|----------------|-------|------------|

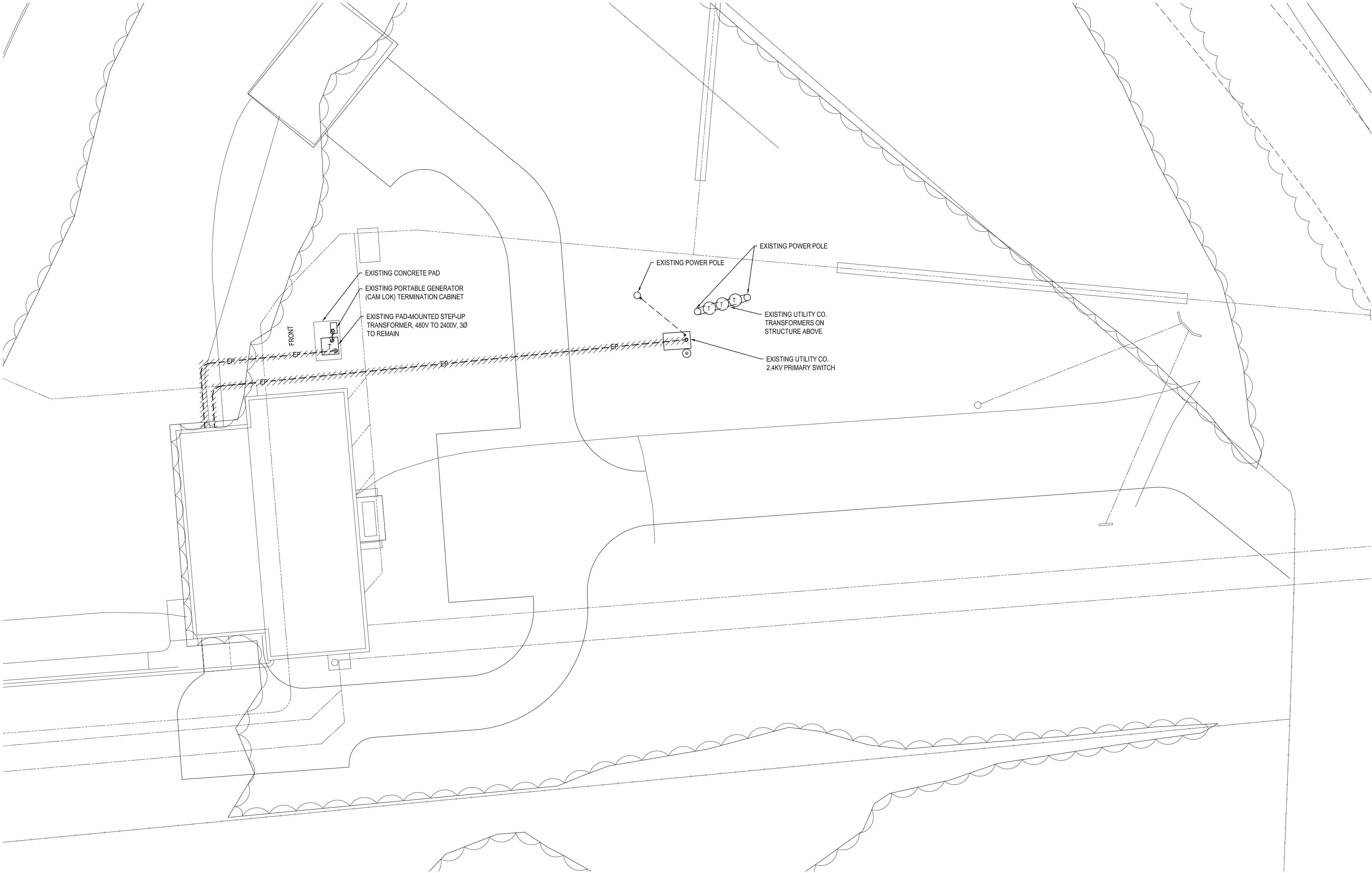
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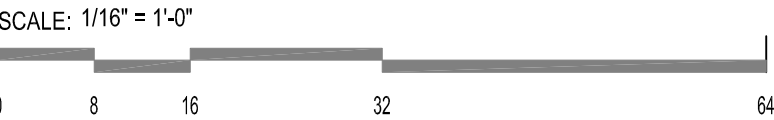
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SITE PLAN - POWER DEMOLITION
SCALE: 1/16" = 1'-0"



SHEET NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 NATIONAL ELECTRICAL CODE AS AMENDED BY THE MICHIGAN CONSTRUCTION CODE, ELECTRICAL CODE RULES, PART 8.

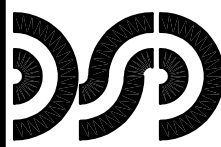


| NO. | REVISION | DATE |
|-----|--------------------|----------|
| | OWNER REVIEW | 03/26/21 |
| | FINAL OWNER REVIEW | 05/17/23 |
| | PERMITS | 06/01/23 |
| | BIDS | 07/05/23 |

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|----------------|-----------|
| DRAWN: ACC | CHK'D: SM |
| DESIGNED: SMD | |
| APPR'D: SM | |
| DATE: 06/01/23 | |
| PROJECT NUMBER | |

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|----------|---------------------------------------|
| Michigan | CITY OF FLINT |
| | CEDAR STREET PUMP STATION RENOVATIONS |
| | SITE PLAN - POWER DEMOLITION |

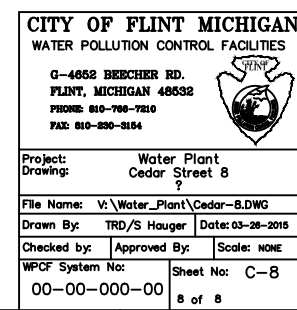
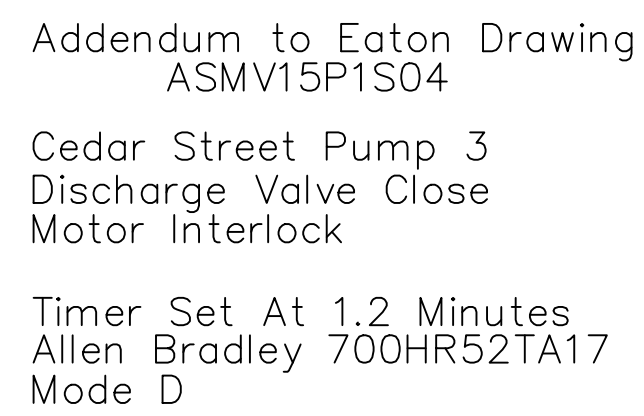
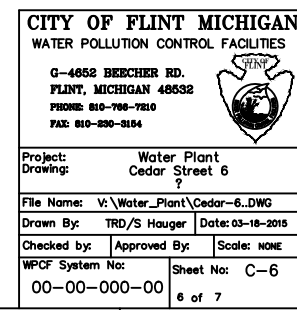
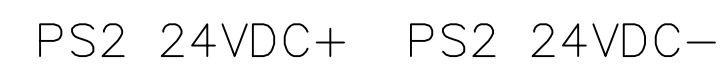
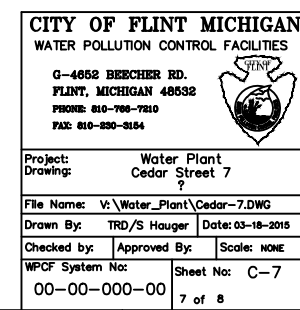
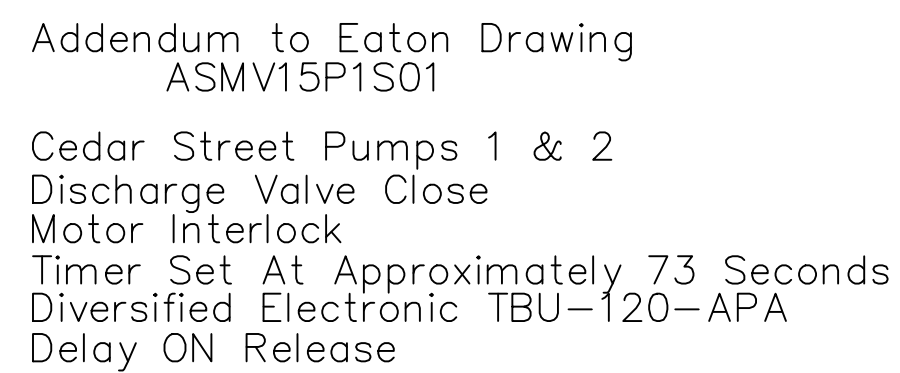
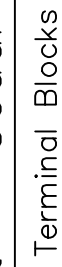
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| | ELECTRICAL |



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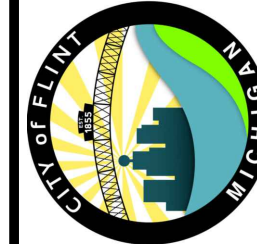
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THREE FULL WORKING DAYS

THREE FULL WORKING DAYS PRIOR TO BEGINNING WORK THE CONTRACTOR SHALL HAVE WORK AREA STAKED AND HE SHALL PROTECT OR HAVE RELOCATED, AS NOTED IN THE SPECIFICATIONS, ALL UTILITIES THAT MIGHT INTERFERE WITH CONSTRUCTION.



City of Flint
1101 S. Saginaw Street
Flint, Michigan 48502

EXISTING PLC DRAWINGS
Cedar Pump Station Rehabilitation
Bearing Support & Access Cedar Street
Flint, Michigan



A horizontal scale bar with alternating black and white segments. It is marked with '0' at the left end, '1'' at the first full segment end, and '2'' at the second full segment end. Below the bar is the word 'SCALE'.

| MARK | ISSUED FOR | DATE |
|------|---------------|---------|
| - | - | - |
| - | - | - |
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| - | - | - |
| - | ISSUE FOR BID | 7/5/23 |
| - | PERMITTING | 6/7/23 |
| - | OWNER REVIEW | 5/17/23 |

DRAWN BY: DLZ
DESIGN BY: -
CHECKED BY: -

DLZ JOB NUMBER: 1949-0188-00

SHEET NO.

IC-004

811

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