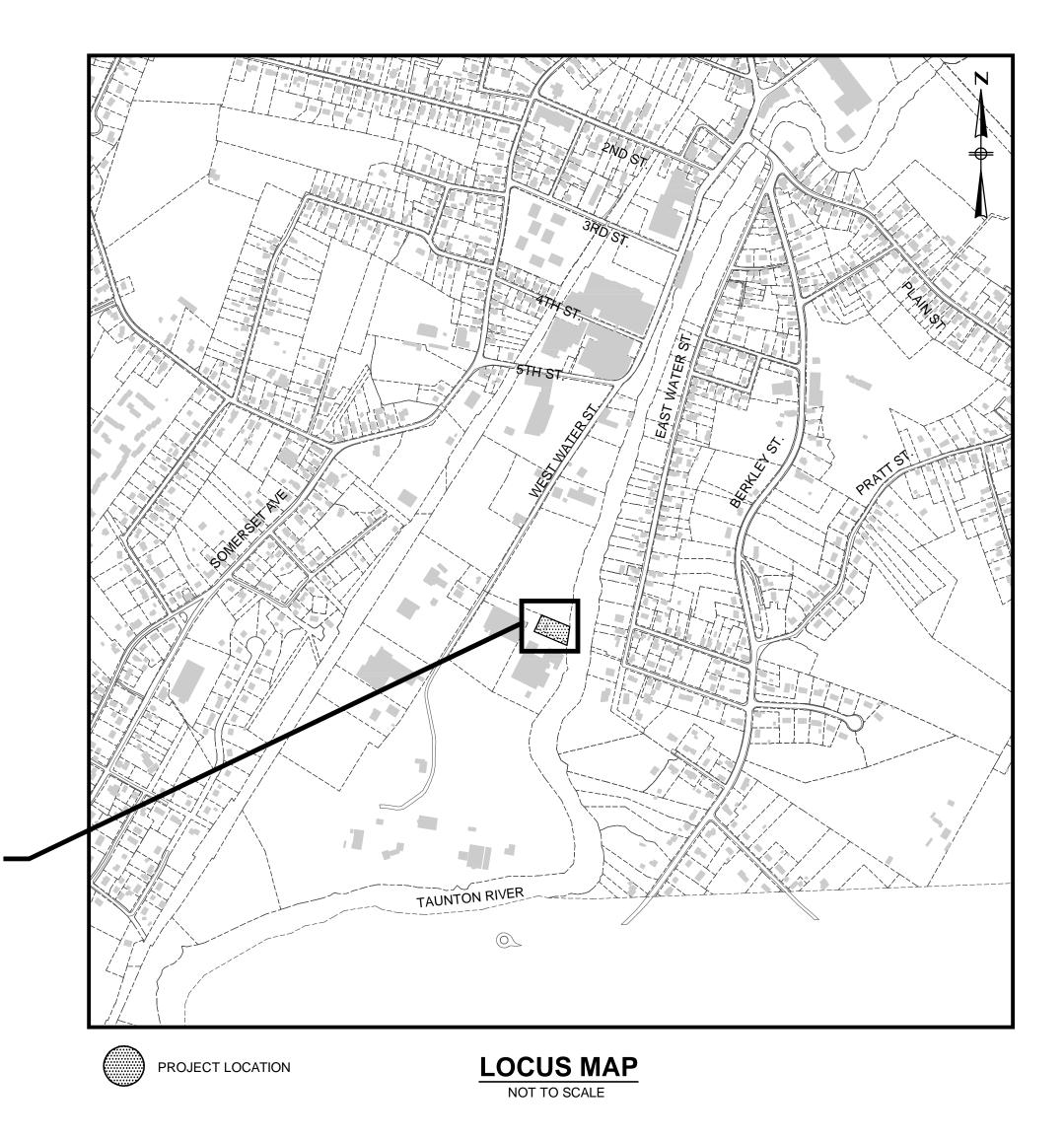


PROJECT LOCATION

City of Taunton, Massachusetts Main Lift Pump Station Improvements



Contract S-2022-2 **CWSRF No. 6832**

Issue Date: October, 2021 U:\Logos\City-Towns\Taunton.jpg

Mayor Shaunna O'Connell

Department of Public Works

Frederic J. Cornaglia - Commissioner Anthony Abreau - Assistant Commissioner

City Engineer

Mike Patneaude, P.E.

City Council

Deborah Carr Donald L. Cleary Gerald Croteau John M. McCaul David Pottier Phillip Duarte Barry Sanders Jeff Postell Chris Coute

DEP REVIEW SET NOT FOR CONSTRUCTION



Prepared By:

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GENERATOR PAD

CONCRETE DETAILS

MASONRY DETAILS

MISCELLANEOUS STRUCTURAL DETAILS

MECHANICAL

BASEMENT LEVEL PLAN MEZZANINE LEVEL PLAN GROUND LEVEL PLAN SECTION A-A SECTION B-B SECTION C-C MECHANICAL DETAILS I MECHANICAL DETAILS II

IVAC

HVAC LEGEND & GENERAL NOTES
HVAC BASEMENT LEVEL PLAN
HVAC MEZZANINE LEVEL PLAN
HVAC GROUND LEVEL PLAN
ROOF LEVEL PLAN
HVAC BUILDING SECTION
HVAC SCHEDULE, DETAILS, AND SECTION

<u>IMBING</u>

PLUMBING LEGEND, NOTES, AND SCHEDULE
PLUMBING BASEMENT LEVEL PLAN
PLUMBING MEZZANINE LEVEL PLAN
PLUMBING GROUND LEVEL PLAN
PLUMBING ROOF PLAN
PLUMBING DETAILS

ON AND CONTROL

LEGEND AND NOTES WET WELLS AND PUMPS WET WELLS AND PUMPS STATION MONITORING

CTRICAL

ELECTRICAL LEGEND AND NOTES ELECTRICAL ONE LINE DIAGRAM ELECTRICAL SITE PLAN BASEMENT LEVEL POWER AND LOW VOLTAGE PLAN MEZZANINE LEVEL POWER AND LOW VOLTAGE PLAN GROUND LEVEL POWER AND LOW VOLTAGE PLAN ROOF POWER PLAN BASEMENT LEVEL LIGHTING PLAN MEZZANINE LEVEL LIGHTING PLAN GROUND LEVEL LEVEL LIGHTING PLAN ELECTRICAL SCHEDULES ELECTRICAL SITE DETAILS

ELECTRICAL DETAILS

LEGEND - EXISTING

CONTOUR - MAJOR	
PARCEL LINE	
PAVED DRIVE	
	X X X
SHEETING	
COAST LINE	· · ·
DRAIN LINE	
ELECTRIC LINE	
GAS LINE	
SEWER LINE	
FORCE MAIN	FM
WATER LINE	
DRAIN MANHOLE	
CATCH BASIN	⊞ CB
SEWER MANHOLE	S SMH
WATER GATE	o WG
HYDRANT	Q ^{HYD}
UTILITY POLE	↓ UP#1
UTILITY LIGHT POLE	-☆
LIGHT POLE	☆—○ ☆
SIGN	
MAG NAIL	O MAG
MONITORING WELL	(A) MW
TREELINE/TREE	
BUILDINGS	
PAVEMENT	
WETLAND DELINEATION W/ FL	AGS WF#A1 WF#A2
100-FT. WETLAND BUFFER	· · ·
25-FT RIVER FRONT AREA	
100-FT COASTAL BANK BUFF	ER · · ·

BORDERING LAND SUBJECT TO _____ · ____ FLOODING ELEV. = 13.00 (NAVD88)

ABBREVIATIONS

BITUMINOUS	BIT.
CONCRETE	CONC.
CONCRETE RETAINING WALL	CRW
CONCRETE PAD	CPD
DESTINATION UNKNOWN	D.U.??
EDGE OF PAVEMENT	EOP
GRASS	GRS
MONITORING WELL	MW
NO PIPE VISIBLE	NPV
OVERHEAD WIRES	ОНЖ
STONE RETAINING WALL	SRW
VENT PIPE	VP
VERTICAL GRANITE CURB	VGC

<u>LEGEND - PRO</u>	DPOSED
EROSION CONTROL	· · · · · · · · · · ·
WATER LINE	w
WATER VALVE	► WG, CS, TS&V
HYDRANT	,a, hyd
CHAIN LINK FENCE	x x
LIMITS OF TEMPORARY EASEMENTS	
LIMITS OF PERMANENT EASEMENTS	· · · · <u></u> · · · · <u></u>

BEIGARED BY BEIGAN www.BETA-Inc.com
REGISTERED PROFESSIONAL
MAIN LIFT PUMP STATION IMPROVEMENTS
TITLE DRAWING INDEX & LEGEND
Image: Sector
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DESIGNED BY: AJG CHECKED BY: CC ISSUE DATE: 3/29/2021 BETA JOB NO.: 5530 SCALE
NONE UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION Not for Construction SHEET NO. G-1

1.	SURVEY INFORMATION:
	-TOPOGRAPHIC SURVEY COMPLETED BY LIGHTHOUSE LAND SURVEYING LLC BETWEEN JANUARY 2017 THRU JANUARY 20, 2017. PROPERTY LINES AND ABUTTING OWNER INFORMATION OBTAIN FROM THE "OFFICE OF GEOGRAPHIC INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSET MASSIT". IT IS NOT INTENDED TO REFLECT THAT A TITLE SEARCH WAS PERFORMED.
	-VERTICAL DATUM: NAVD 88.
	-HORIZONTAL DATUM: MASSACHUSETTS STATE PLANE - MAINLAND ZONE NAD83
2.	THE LOCATION, SIZE, AND MATERIAL OF EXISTING PIPES, DUCTS, CONDUITS AND OTHER UNDERGROU STRUCTURES AND/OR UTILITIES SHOWN ON THESE PLANS ARE FROM THE BEST SOURCES AVAILAE AT PRESENT AND ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT A UNDERGROUND PIPES, UTILITIES OR STRUCTURES ARE SHOWN. EXACT LOCATION TO BE DETERMIN BY CONTRACTOR IN FIELD.
3.	EXISTING UTILITIES DEPICTED ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE CONTRACT SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES AND NOTIFY ALL UTILITY COMPANIES (PUB AND PRIVATE). IN ADDITION, "DIG SAFE" MUST BE CONTACTED AT 1(800)-322-4844.
4.	EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED AND SUPPORTED ALL TIMES BY THE CONTRACTOR. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS TO INTERFE AS LITTLE AS POSSIBLE WITH EXISTING UTILITIES. PAYMENT FOR PROVIDING SAID PROTECTION A SUPPORTS SHALL BE CONSIDERED A PART OF AND PAID FOR UNDER THE APPROPRIATE ITE UNLESS OTHERWISE INDICATED AND/OR DIRECTED BY THE OWNER. THE CONTRACTOR SHALL HAVE CLAIM FOR ADDITIONAL COMPENSATION BY REASON OF DELAY AND/OR INCONVENIENCE IN ADAPTI HIS OPERATIONS ACCORDINGLY.
5.	ALL DIMENSIONS AND JOB RELATED CONDITIONS ARE TO BE VERIFIED BY THE CONTRACTOR. A DISCREPANCIES FOUND ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER A PROPERLY RESOLVED BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. CONTINUATION W OTHER ASPECTS OF THE WORK SHALL PROCEED WITHOUT DELAY OR CAUSE FOR CLAIM.
6.	ALL GRASSED AREAS DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE LOAMED AND SEED IN ACCORDANCE WITH THE SPECIFICATIONS. FINAL RESTORATION SHALL BE EQUAL TO OR BETT THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION AS DETERMINED SOLELY BY T OWNER/ENGINEER.
7.	WORK PERFORMED BY THE CONTRACTOR SHALL NOT INTERFERE WITH WASTEWATER FLOWS THROUTHE PUMPING STATION. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY EQUIPMENT, PIPINFITTINGS AND APPURTENANCES NECESSARY TO COMPLETE THIS CONTRACT. THE CONTRACTOR SHALL AND MAINTAIN ALL TEMPORARY UNIT BYPASS-LINES UNTIL THE MODIFICATIONS A CONSTRUCTION ARE COMPLETE.
8.	THE CONTRACTOR SHALL CONFINE ALL ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN T INDICATED LIMITS OF WORK AS SHOWN IN THE CONTRACT DRAWINGS. ALL SURFACES DAMAG OUTSIDE THE INDICATED LIMITS SHALL BE REPLACED IN KIND AT CONTRACTOR'S EXPENSE.
9.	CONTRACTOR IS RESPONSIBLE FOR THE LEGAL AND PROPER DISPOSAL OF ALL DEMOLITION MATERIA ACCORDING TO THE LAWS OF THE MUNICIPALITY IN WHICH THE WORK IS BEING DONE AND T COMMONWEALTH OF MASSACHUSETTS. ALL DEMOLITION MATERIAL INCLUDING PUMPS, PIPE, A BRICK THAT WAS IN CONTACT WITH SEWAGE SHALL BE CLEANED IN ACCORDANCE WITH MAD REQUIREMENTS AND DISPOSED OF ACCORDINGLY. ONCE CLEANED, DEMOLITION MATERIALS SHALL N BE CONSIDERED SPECIAL WASTE.
10	GENERAL CONTRACTOR SHALL COORDINATE WITH THEIR ELECTRICAL SUBCONTRACTOR AND DEFINE

SEQUENCE OF CONSTRUCTION

GENERAL NOTES

- 1. THE CONTRACTOR'S SEQUENCE OF CONSTRUCTION SHALL BE BASED UPON THE SCHEDULE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER AS SPECIFIED. HOWEVER, AS A GUIDE FOR THE BIDDERS IN THE PREPARATION OF THEIR BID AND FOR THE CONTRACTOR IN THE PREPARATION OF HIS SCHEDULE, A RECOMMENDED SEQUENCE OF CONSTRUCTION IS PROVIDED ON THIS PLAN.
- 2. THE ORDER OF CONSTRUCTION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER; SUCH APPROVAL OR DIRECTION, HOWEVER, SHALL IN NO WAY RELIEVE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THE WORK IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONSTRUCTION PLANS AND SPECIFICATIONS HAVE BEEN DEVELOPED TO MINIMIZE THE CONSTRUCTION IMPACTS ON THE OPERATION OF THE CITY'S WASTEWATER COLLECTION SYSTEM. THE CONTRACTOR'S WORK SEQUENCE MUST BE SPECIFICALLY DETAILED IN THE CPM WHICH IS REQUIRED UNDER SECTION 01310.
- 3. WHENEVER THE CONTRACTOR'S PROPOSED WORK WILL REQUIRE THE OWNER TO DEVIATE FROM THE NORMAL OPERATION OF THE WASTEWATER COLLECTION/PUMPING SYSTEM, THE CONTRACTOR SHALL SO NOTIFY THE ENGINEER IN WRITING. SUCH NOTIFICATION SHALL BE SUBMITTED ONE (1) WEEK PRIOR TO THE PLANNED CONSTRUCTION ACTIVITY.

MAIN LIFT PUMPING STATION:

EXISTING PUMPING STATION WILL REMAIN ON-LINE THROUGHOUT CONSTRUCTION AND START-UP OF NEW STATION.

1. CONSTRUCT YARD PIPING

2. CONSTRUCT PUMPING STATION

- MECHANICAL PIPING AND EQUIPMENT
- ARCHITECTURAL - ELECTRICAL WORK
- HEATING & VENTILATION
- INSTRUMENTATION & CONTROLS
- ENABLE BOTH STATIONS TO OPERATE TOGETHER FOR START-UP PURPOSES
- 6. START-UP & TEST NEW STATION
- INTRODUCE FLOW TO NEW STATION (VIA WEST WATER STREET)
- OLD STATION WILL CONTINUE TO OPERATE
- 7. PUMP START-UP
- PROVIDE NOTIFICATION TO OWNER AND VEOLIA
- OPERATE FORCE MAIN GATE VALVES AT WASTEWATER TREATMENT PLANT TO ALLOW INTRODUCTION OF FLOW FROM NEW FORCE MAINS.
- FILL ONE OF TWO NEW FORCE MAINS WITH SEWAGE
- OPERATE GATES IN UPSTREAM MANHOLE ON WEST WATER STREET TO INTRODUCE FLOW TO THE NEW WET WELL.
- INFLUENT FLOW TO NEW STATION SHALL BE ISOLATED BY OPERATION OF STRUCTURE GATES DURING INTERRUPTIONS IN START UP AND REDIRECTED BACK TO THE EXISTING STATION.
- 8. DEMONSTRATION OF INSTRUMENTATION AND CONTROL STRATEGIES
- THE STATION SHALL NOT BE LEFT UNATTENDED AND IN AUTOMATIC OPERATION UNTIL CONTROL STRATEGIES HAVE BEEN CHECKED OUT AND DEMONSTRATED. - EACH ALARM POINT AND MONITORING ELEMENT SHALL BE CHECKED OUT
- 9. DIRECT FLOW TO NEW STATION AND LEAVE ON AUTOMATIC
- VACTOR SIPHON DISCHARGE MANHOLE
- ISOLATE NEW STATION FROM INFLUENT FLOW BY OPERATING GATES IN SMH-A
- REMOVE CAP FROM SIPHON DISCHARGE PIPING IN THE INFLUENT STRUCTURE. - DEFLATE AND REMOVE PLUG AND ALLOW FLOW TO ENTER FROM THE EAST SIDE OF THE STATION
- OPEN GATES FROM WEST WATER STREET INFLUENT SEWER

5. CLEAN OLD STATION

- DRAIN FORCE MAIN BACK INTO WET WELL AND DRAW-DOWN WET WELL WITH SUBMERSIBLE PUMPS
- AND PUMP TO NEW STATION - POWER WASH WET WELL WALLS AND FLOOR AND REMOVE AND DISPOSE OF RESIDUAL SLUDGE,
- SCUM, GREASE AND DEBRIS FROM WET WELL - CAP INFLUENT PIPE ON SOUTH SIDE OF WET WELL. FILL WITH CLEAN WATER TO ELEV. & FILL PUMP VOLUTES

WORK ON OR NEAR PRIVATE PROPERTY —

- TO THE PERFORMANCE OF WORK ON THE PROPERTY.

RESTORATION OF PRIVATE PROPERTY —

- GRADE EXISTING GRAVEL SMOOTH TO DRAIN
- TO THE OWNER.

- UNDERGROUND PIPES AND STRUCTURES.
- LOCATION OF EXISTING UNDERGROUND UTILITIES.
- STAINLESS STEEL BOLTS AND NUTS.
- MANUFACTURER AND APPROVED BY THE ENGINEER.

1. WORK IN THE VICINITY OF PRIVATE PROPERTY SHALL BE PERFORMED WITHOUT ENCROACHMENT ONTO THE PRIVATE PROPERTY. SHOULD ENCROACHMENT ONTO PRIVATE PROPERTY BECOME NECESSARY FOR ANY REASON, CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SECURING PERMISSION OR AUTHORITY FROM ANY AND ALL ENTITIES OWNING OR HAVING CONTROL OVER SAID PROPERTIES PRIOR

2. CONTRACTOR SHALL RESTORE ANY AND ALL DISTURBED AREAS ON PRIVATE PROPERTY TO AS GOOD OR BETTER CONDITION THAN ORIGINAL, TO THE SATISFACTION OF THE PROPERTY OWNER.

3. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO EXISTING ITEMS/ FEATURES ON PRIVATE PROPERTY, OR FOR REPLACING DAMAGED ITEMS IF SAID ITEMS CANNOT BE REPAIRED, AT NO ADDITIONAL EXPENSE TO THE OWNER.

4. TEMPORARY CONSTRUCTION EASEMENTS HAVE BEEN PROVIDED BY THE OWNER FOR PROPOSED WORK INTENDED TO BE PERFORMED ON PRIVATE PROPERTY. CONTRACTOR SHALL MAINTAIN THERE ACTIVITIES TO THE LIMITS OF THE TEMPORARY CONSTRUCTION EASEMENTS, AND SHALL BE SOLELY RESPONSIBLE FOR COORDINATION WITH THE PROPERTY OWNERS DURING CONSTRUCTION (E.G. ADVANCE NOTIFICATION, LIMITED ACCESS, TEMPORARY SHUTDOWNS, ETC.).

5. CONTRACTOR SHALL TAKE PRE AND POST-CONSTRUCTION PHOTOGRAPHS OF ALL PRIVATE PROPERTIES IMPACTED BY THE WORK (WHETHER PLANNED OR UNPLANNED), AND SHALL PROVIDE COPIES OF SAME TO THE OWNER UPON COMPLETION OF THE PROJECT.

1. TEMPORARY EASEMENT (CONSTRUCTION EQUIPMENT STAGING AREA - BAY STATE CRUCIBLE PROPERTY)

2. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO MATCH EXISTING CONDITION AS SHOWN IN THE PRE-CONSTRUCTION VIDEO. THIS WORK SHALL BE COMPLETED AT NO ADDITIONAL COST

YARD PIPING NOTES -

1. CONTRACTOR SHALL CONDUCT TEST PITS AS SHOWN AND AT ALL LOCATIONS WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING AND STRUCTURES TO FIELD VERIFY THE EXACT SIZE, MATERIAL, LOCATION, INVERT ELEVATION AND ALIGNMENT (VERTICAL AND HORIZONTAL) OF EXISTING

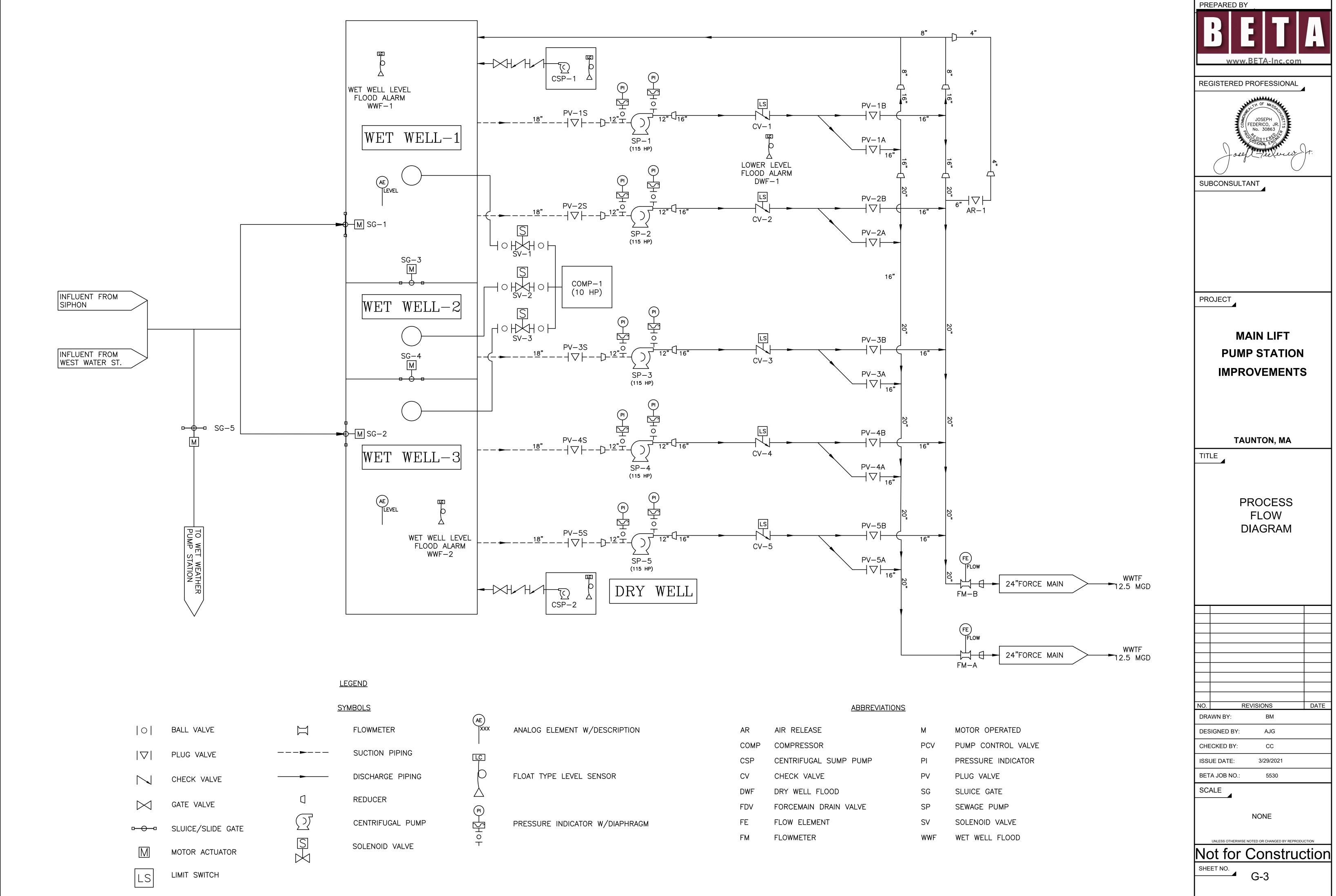
2. THE CONTRACTOR SHALL CONDUCT TEST PITS, AS REQUIRED, IN ORDER TO ASCERTAIN THE EXACT

3. WHERE PIPING IS TO BE CONNECTED TO EXISTING PIPING OR STRUCTURES, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, FITTINGS AND ADDITIONAL PIPE (REQUIRED AS A RESULT OF CUTTING THE EXISTING PIPE BACK) TO COMPLETE THE CONNECTION AS REQUIRED.

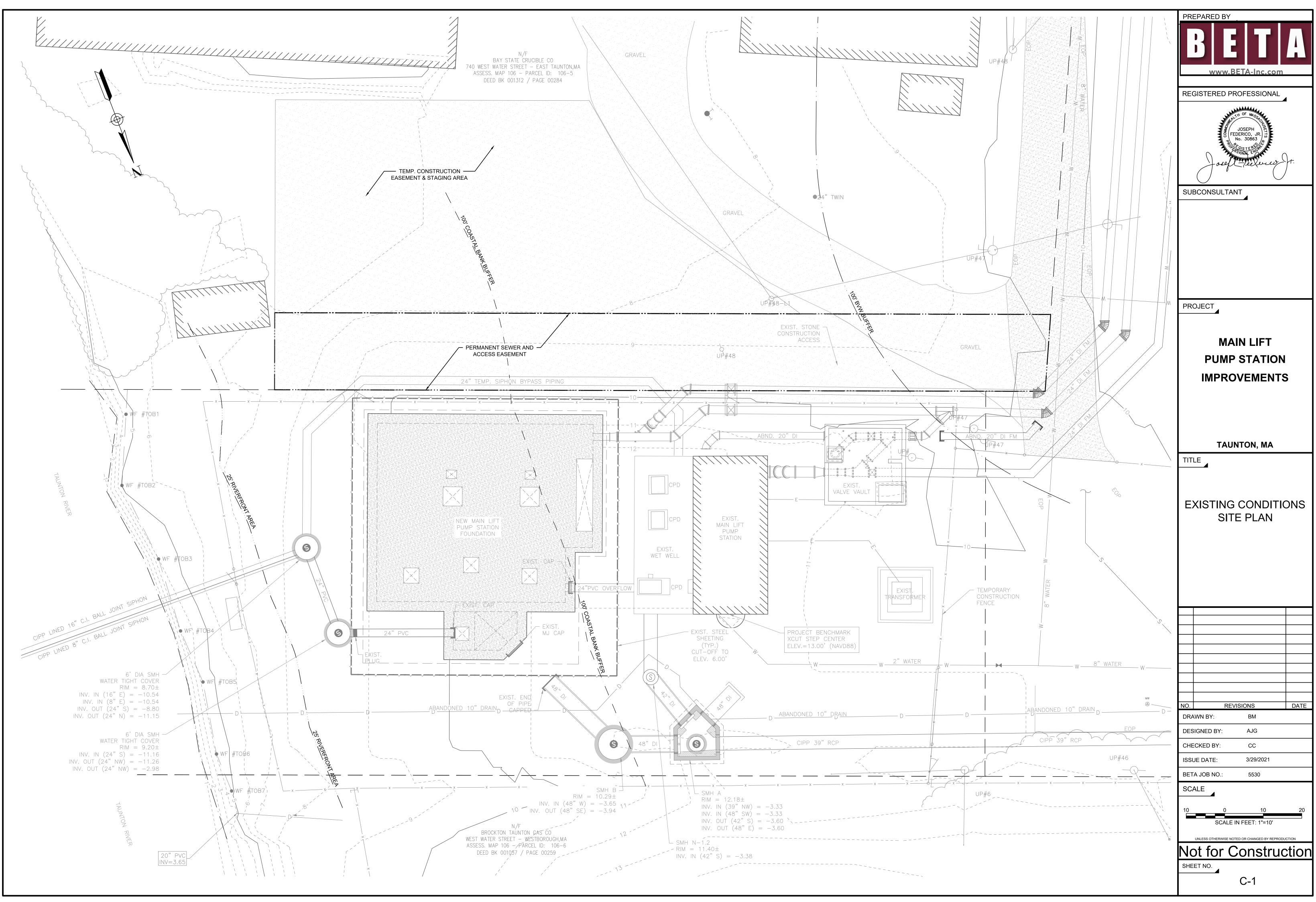
4. PIPE REPAIR CLAMPS SHALL BE MADE OF STAINLESS STEEL AND PROVIDED WITH TYPE 304

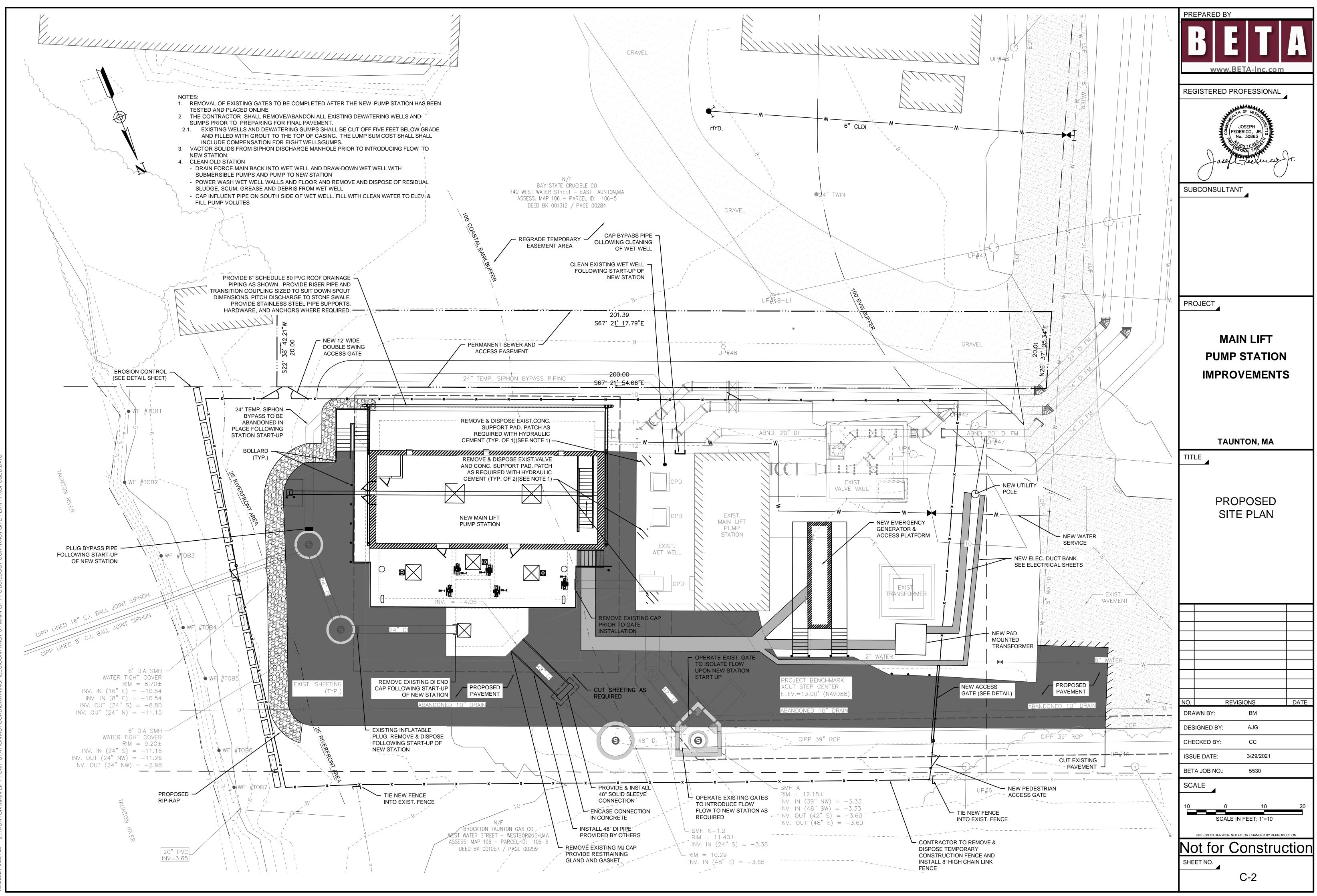
5. ALL PIPING SHALL BE PROVIDED WITH FLEXIBLE CONNECTIONS WHERE EXITING OR ENTERING STRUCTURES AND BUILDINGS. FLEXIBLE CONNECTIONS SHALL BE COORDINATED WITH PIPE

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REGISTERED PROFESSIONAL	
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SUBCONSULTANT	
PROJECT MAIN LIFT PUMP STATION IMPROVEMENT	
TAUNTON, MA	
TITLE	
GENERAL NOTES	
NO. REVISIONS	DATE
DRAWN BY: BM	DATE
DESIGNED BY: AJG	
CHECKED BY: CC	
ISSUE DATE: 3/29/2021	
BETA JOB NO.: 5530 SCALE	
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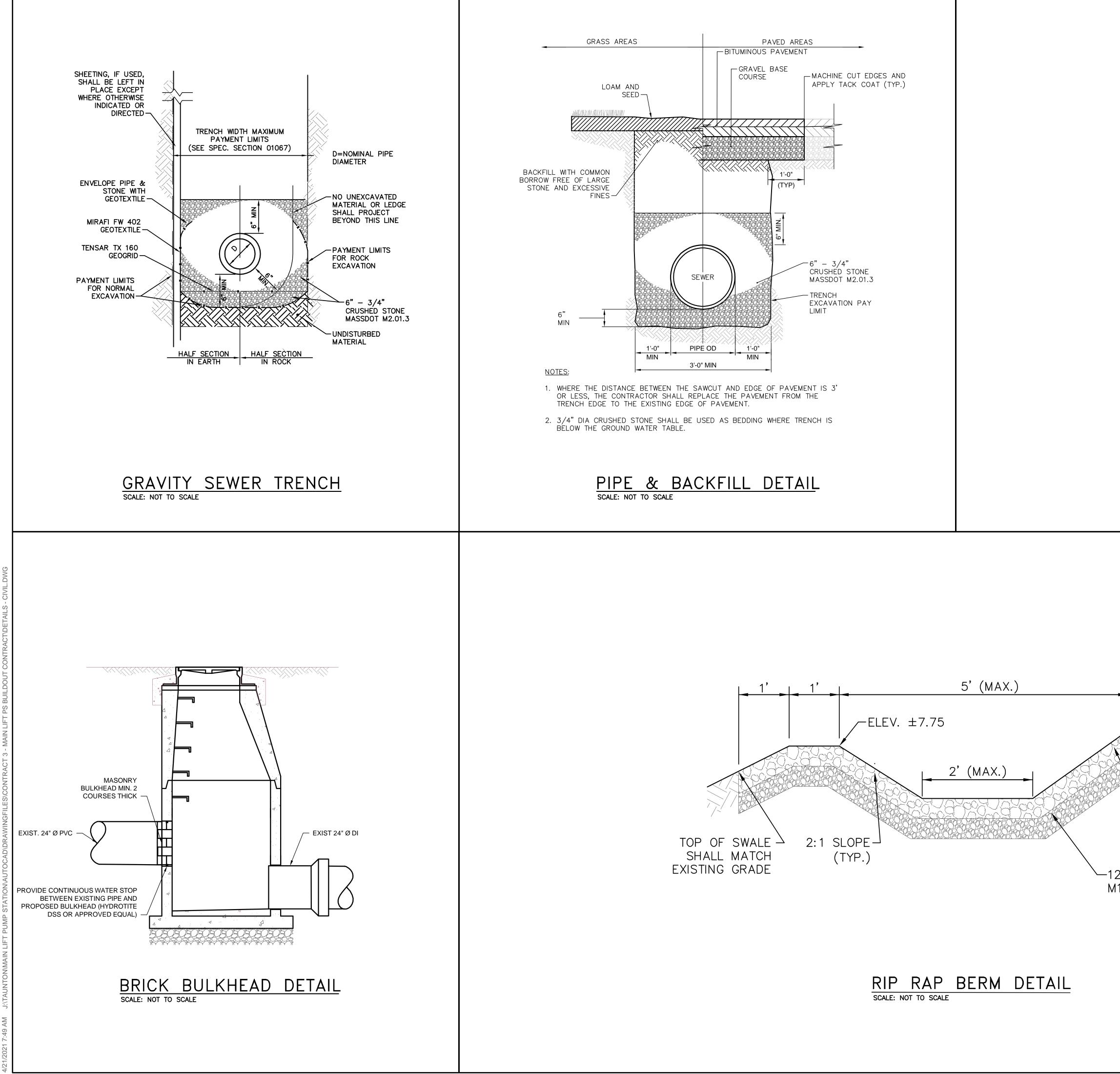


Ν	AR	AIR RELEASE
	COMP	COMPRESSOR
	CSP	CENTRIFUGAL SUMP PUMP
	CV	CHECK VALVE
	DWF	DRY WELL FLOOD
	FDV	FORCEMAIN DRAIN VALVE
AGM	FE	FLOW ELEMENT
	FM	FLOWMETER

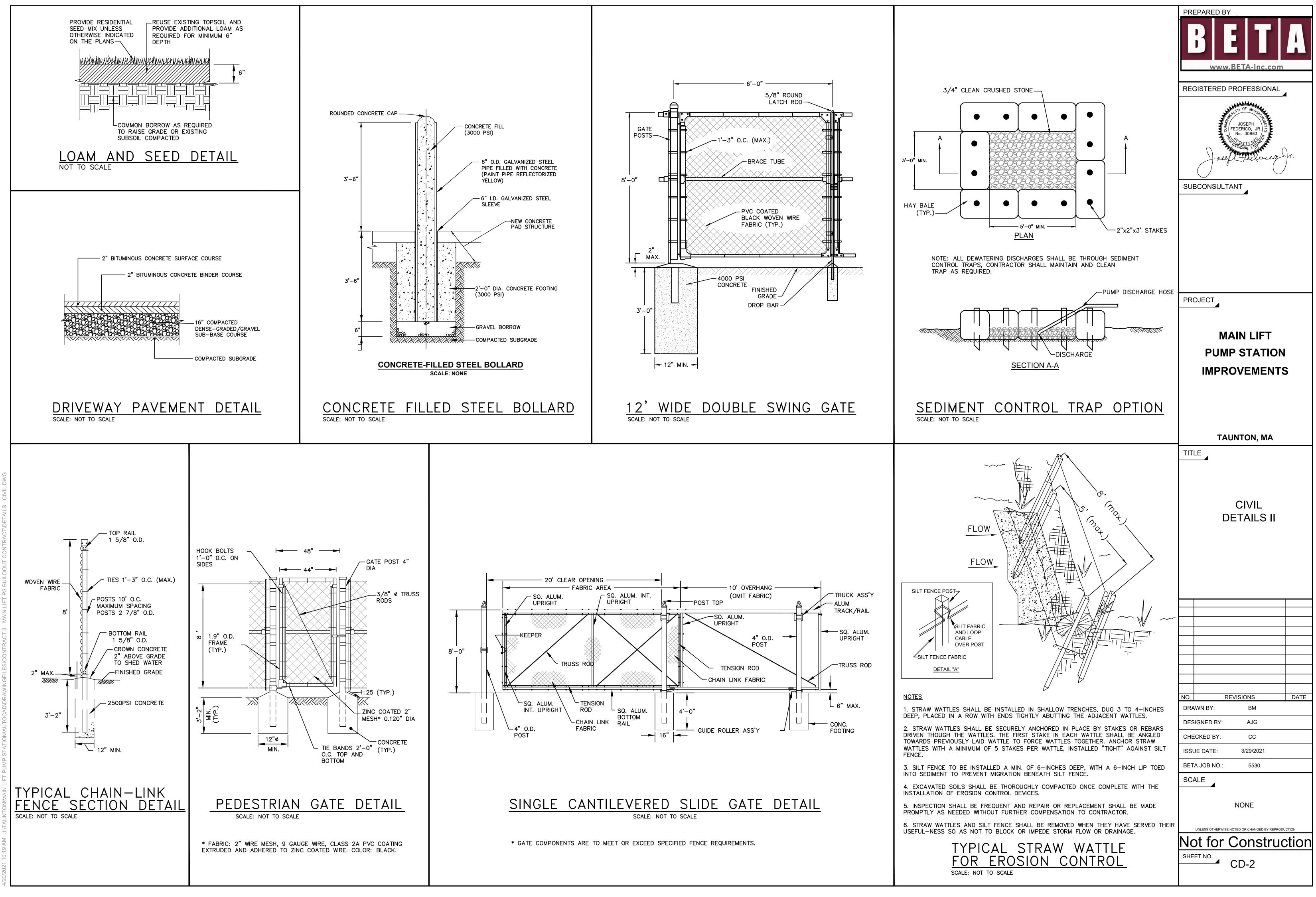


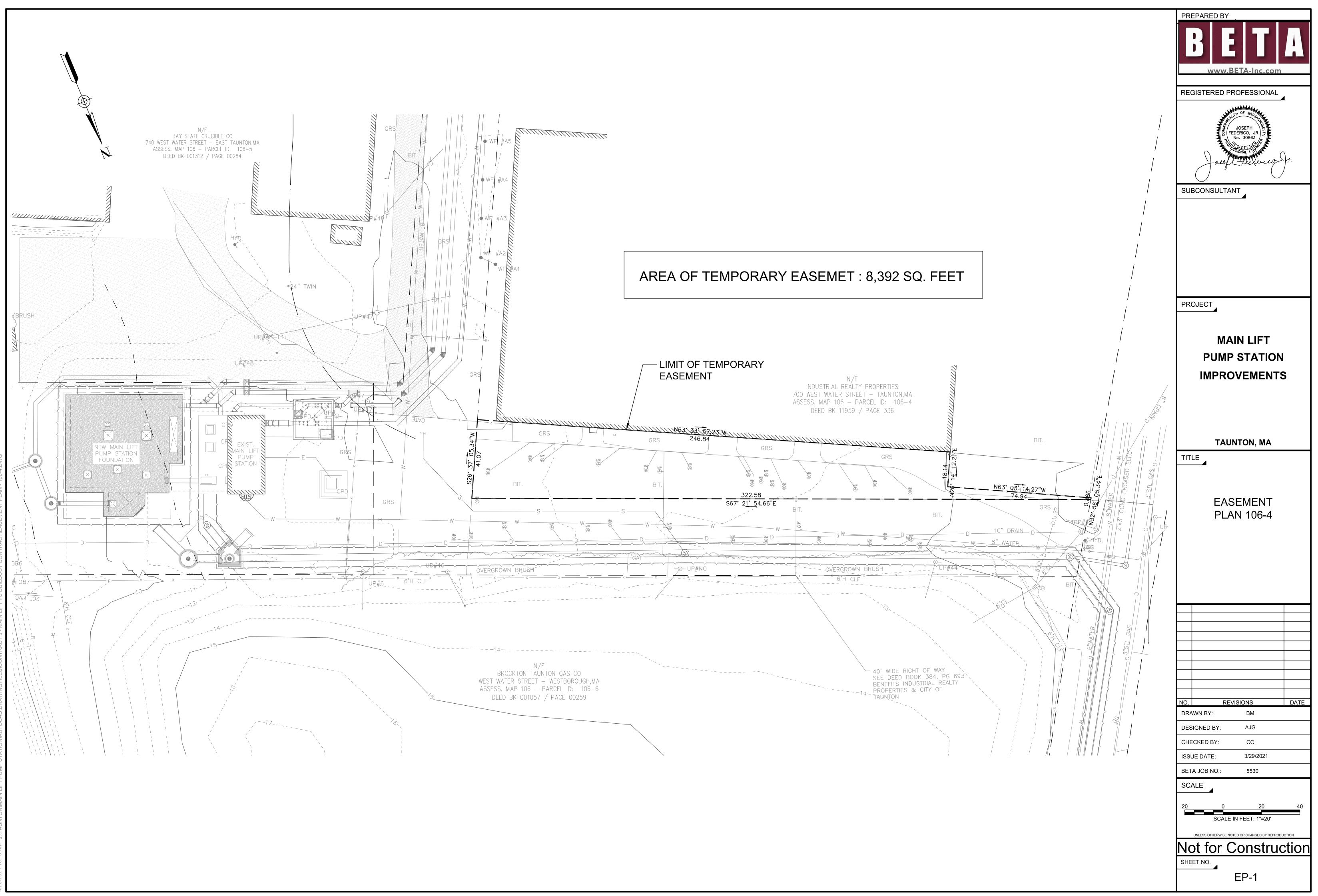


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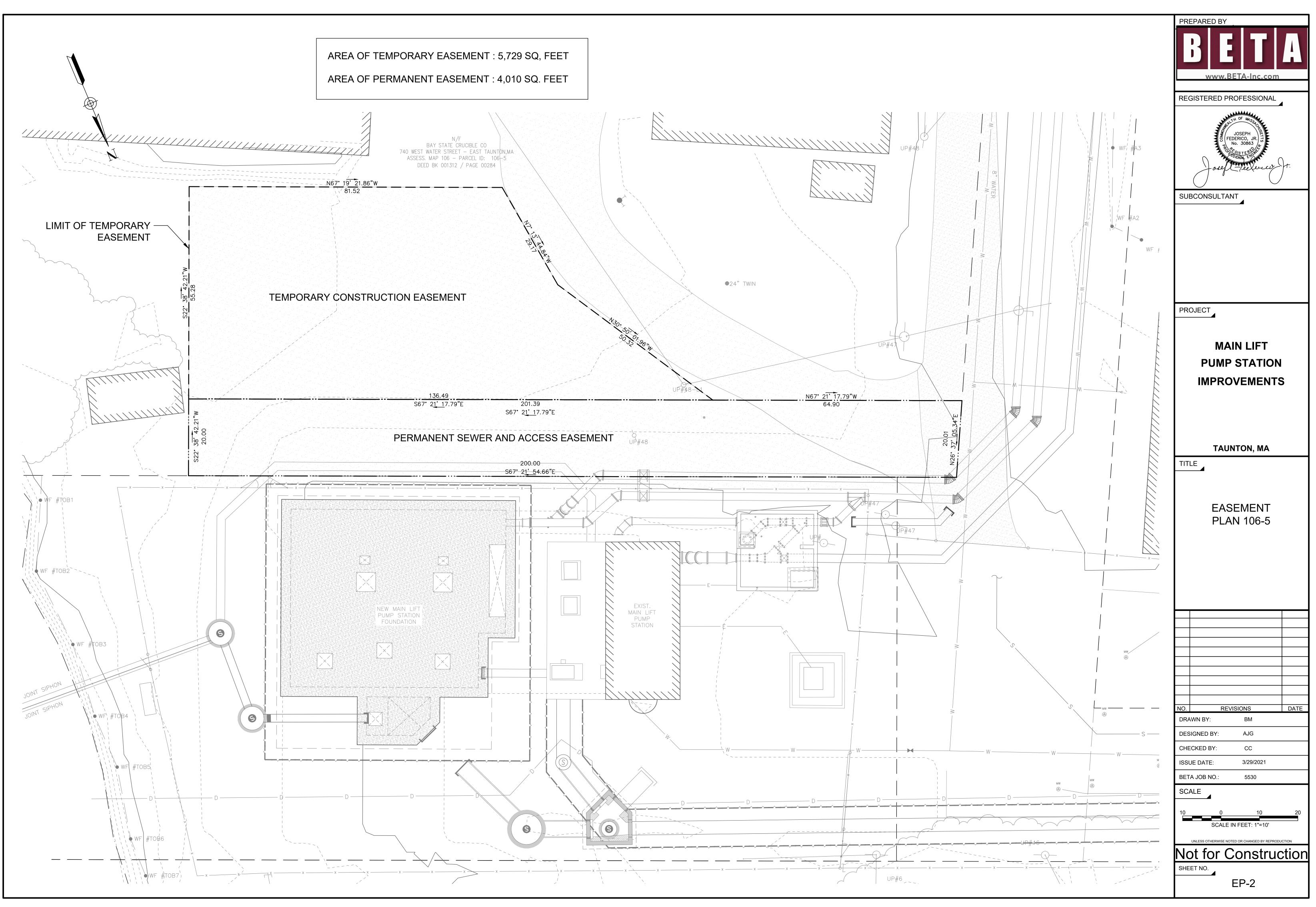


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BEFORE STARTING WORK.

3. INFORMATION CALLED OUT ON ONE SHEET WILL BE BINDING AS IF CALLED FOR BY ALL. ANY WORK SHOWN OR REFERRED TO ON ANY ONE DOCUMENT SHALL BE PROVIDED AS THOUGH SHOWN ON ALL DOCUMENTS. DETAILS TAKE PRECEDENCE OVER GENERAL WORK, TYPICAL.

4. THE CHARACTER AND SCOPE OF THE WORK ARE ILLUSTRATED BY THE DRAWINGS. TO INTERPRET AND EXPLAIN THE DRAWINGS, OTHER WRITTEN AND GRAPHIC INFORMATION DEEMED NECESSARY WILL BE FURNISHED TO THE CONTRACTOR AND THE SUBCONTRACTORS WHEN AND AS REQUIRED BY THE WORK, AND IT IS UNDERSTOOD THAT SAID ADDITIONAL INFORMATION AND DRAWINGS SHALL BECOME PART OF THE CONTRACT DOCUMENTS.

5. THE CONTRACTOR AND SUBCONTRACTOR WILL NOTIFY THE ENGINEER OF ANY ERRORS, OMISSIONS, CONFLICTS OR AMBIGUITIES IN AND BETWEEN THE DRAWINGS THEMSELVES, OR WITH FIELD CONDITIONS, AND IN A TIMELY MANNER SHALL REQUEST CLARIFICATIONS PRIOR TO PROCEEDING WITH THAT PORTION OF THE WORK. IF SUCH NOTICE IS NOT FURNISHED TO THE ENGINEER, THE CONTRACTOR AND SUBCONTRACTOR WILL BE DEEMED TO HAVE INSPECTED THE DRAWINGS AND FOUND THEM IN PROPER FORM FOR EXECUTION.

6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS, AND SHALL FILE SEPARATE APPLICATIONS FOR PERMITS AND SHALL ARRANGE FOR ALL NECESSARY INSPECTIONS AND APPROVALS.

7. THE CONTRACT FOR CONSTRUCTION IS BASED ON THE STANDARDS OF QUALITY ESTABLISHED IN THE CONTRACT DOCUMENTS. SUBSTITUTIONS WILL ONLY BE CONSIDERED WHEN SUBSTANTIATED BY THE CONTRACTOR'S SUBMITTAL OF REQUIRED DATA.

8. THE CONTRACTOR AND SUBCONTRACTOR(S) SHALL SUBMIT ALL REQUESTS FOR SUBSTITUTIONS OF SPECIFIC ITEMS TO THE ENGINEER IN WRITING, FOR APPROVAL. WHERE "APPROVED EQUAL" IS USED, IT SHALL BE UNDERSTOOD THAT THE SUBSTITUTE SHALL BE BY JUDGMENT AND APPROVAL OF THE ENGINEER AND THAT NOTIFICATION SHALL BE MADE PRIOR TO INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ASSURANCE OF COMPLIANCE AND QUALIFICATION FOR ALL SUBSTITUTIONS AND CO-ORDINATION CHANGES THROUGH ALL DISCIPLINES.

9. THE CONTRACTOR AND SUBCONTRACTOR(S) SHALL SUBMIT MANUFACTURER'S "CUTS"/PRODUCT INFORMATION OF ITEMS FOR THE WORK, AND SHOP DRAWINGS AND SAMPLES AS REQUIRED BY THE ENGINEER. WORK AFFECTED BY THESE SUBMISSIONS SHALL NOT PROCEED PRIOR TO RECEIPT OF THE ENGINEER'S APPROVAL.

10. THE APPROVAL OF SHOP DRAWINGS AND SUBMITTALS SHALL BE FOR COMPLIANCE WITH DESIGN INTENT, AND SHALL BE GENERAL AND/OR FOR AESTHETIC INTERPRETATION, AND, EXCEPT AS OTHERWISE INDICATED, SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR AND SUBCONTRACTOR OF RESPONSIBILITY FOR ERRORS IN DETAILS, DIMENSIONS OR OTHERWISE, WHICH MAY EXIST. FURTHERMORE, APPROVAL OF SHOP DRAWINGS AND SUBMITTALS SHALL NOT BE CONSTRUED AS ALLOWING ANY DEPARTURE FROM ADDITIONAL DETAILS OR INSTRUCTIONS PREVIOUSLY FURNISHED BY THE ENGINEER.

11. STATEMENT OF INTENT: THE INTENT OF THE PROJECT IS TO COMPLETE THE WORK DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS FOR THE CONSTRUCTION OF THE TAUNTON PUMP STATION REPLACEMENT, TAUNTON, MA.

12. THE INTENT OF THE DOCUMENTS IS TO DESCRIBE THE WORK NECESSARY FOR THE PROJECT TO BE COMPLETE, USABLE FOR ITS INTENDED PURPOSE, AND FULLY FUNCTIONAL AT THE CONCLUSION OF THE PROJECT. ALL REQUIRED STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE-PROTECTION WORK IS TO BE INCLUDED.

13. ACCEPTANCE OF DOCUMENTS: THE CONTRACTOR AND SUBCONTRACTORS ARE TO REVIEW THE DOCUMENTS AND EXAMINE THE SITE. EXECUTION OF A CONTRACT FOR CONSTRUCTION WILL CONSTITUTE ACCEPTANCE BY THE CONTRACTOR AND SUBCONTRACTOR(S) OF THE ADEQUACY OF THE DOCUMENTS TO ACHIEVE THE INTENT OF THE WORK.

14. THE CONTRACTOR SHALL PROVIDE FIRE-TREATED-BLOCKING AT ALL CEILINGS, FLOORS, AND FURRED-DOWN SPACES. FIRE-STOPPING AND SMOKE SEAL SHALL BE PROVIDED WHERE FIRE RATED OCCUPANCIES AND ASSEMBLIES MEET.

15. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURFACES, MATERIALS AND ASSEMBLIES DURING THE CONSTRUCTION PERIOD.

OPEN FLAME OR WELDING IS REQUIRED.

17. ALL LIFE-SAFETY DEVICES SHALL BE (HARD-WIRE) PROVIDED AS REQUIRED BY NATIONAL AND LOCAL CODES, ORDINANCES AND REGULATIONS. 18. THE CONTRACTOR SHALL MAKE SAFE ALL EXISTING AND NEW PLUMBING, FIRE-PROTECTION, MECHANICAL AND ELECTRICAL SERVICES AND UTILITIES ON SITE.

19. ALL DEBRIS, DEMOLITION AND CONSTRUCTION WASTE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A SAFE AND LEGAL MANNER. RECYCLING IS STRONGLY ENCOURAGED. ANY AND ALL ITEMS SCHEDULED FOR REMOVAL OR DEMOLITION WITH SALVAGE OR HISTORICAL VALUE SHALL REMAIN THE PROPERTY OF THE OWNER - THESE ITEMS SHALL BE CAREFULLY REMOVED AND PROTECTED AND TURNED-OVER TO THE OWNER.

20. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A SAFE, NEAT AND ORDERLY MANNER. 21. THE CONTRACTOR SHALL PATCH OR REPLACE ALL EXISTING SURFACES WHERE SELECTIVE DEMOLITION MAY HAVE CAUSED DAMAGE DURING THE CONSTRUCTION.

22. THE CONTRACTOR SHALL ENSURE THAT NO WORK SHALL OCCUR OUTSIDE THE PROPOSED LIMIT OF WORK AREA AS NOTED ON THE DOCUMENTS AND AS NOTED HEREIN, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ENGINEER.

23. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY AND LIABILITY FOR DAMAGE TO, AND SHALL TAKE CARE AND CAUTION TO PROTECT ALL POWER, TELEPHONE, TELECOMMUNICATIONS, CABLE TV, ETCETERA SYSTEMS, INCLUDING CONDUIT, LINES, WIRES AND CABLES, WHETHER CONCEALED, UNDERGROUND OR OVERHEAD.

24. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION ACCESS PLAN DETAILING PROPOSED ACCESS REQUIREMENTS, LAY-DOWN AND STAGING AREAS, INCLUDING ACCESS FOR TRUCKING TO AND FROM THE SITE DURING CONSTRUCTION. THIS PLAN REQUIRES THE APPROVAL OF THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.

25. CONTRACTOR SHALL REVIEW ALL ELECTRICAL DEVICE ROUGH-IN LOCATIONS PRIOR TO INSTALLATION AND SHALL COORDINATE BETWEEN TRADES WHEN LOCATING DEVICES IN CONCRETE SLABS AND/OR COLUMNS.

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE AND PREVAILING CODES, BY-LAWS AND ORDINANCES.

2. CONTRACTOR TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES

16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING FIRE DEPARTMENT FIRE-WATCH AS REQUIRED BY CODES AND ORDINANCES WHENEVER

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BETA-Inc.com
PLOT DATE: 8/29/2021 3:59:16 PM
REGISTERED PROFESSIONAL
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SUBCONSULTANT:
DSK Dewing Schmid Kearns ARCHITECTS + PLANNERS
30 Monument Square280 Elm StreetSuite 200BSouth Dartmouth, MAConcord, MA0274801742508.999.0440978.371.7500
PROJECT
PUMP
STATION
IMPROVEMENTS
TAUNTON, MA
TITLE
GENERAL NOTES
REVISIONS
NO. DESCRIPTION DATE
DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530
SCALE
CONTRACT 2
SHEET NO.
SHEET NO. A-01

ABBREVIATIONS

AFF ABOVE FINISHED FLOOR AH ACCESS HATCH AP ACCESS PANEL ACOUS ACOUSTIC ACT ACOUSTIC CEILING TILE ACRY ACRYLIC ADD ADDENDUM ADJ ADJACENT ADJT ADJUSTABLE AGGAGGREGATE A/C AIR CONDITIONER (ING) ALT ALTERNATE ADA AMERICAN W/ DISABILITIES ACT AB ANCHOR BOLT ANOD ANODIZED APPD APPROVED APPX APPROXIMATE ARCH ARCHITECT(URAL) AD AREA DRAIN AUTH AUTHORIZED AUTO AUTOMATIC AVG AVERAGE B TO B BACK TO BACK BB BALL BEARING BSMT BASEMENT BRGBEARING BM BENCHMARK BVL BEVELED BITUM BITUMINOUS BLK BLOCK BLKG BLOCKING BD BOARD BF BOTH FACES BS BOTH SIDES BW BOTH WAYS BOTT BOTTOM BRKT BRACKET BR BRICK BC BRICK COURSE BRZ BRONZE BLDG BUILDING **BUR BUILT-UP ROOFING BBD BULLETIN BOARD** CAB CABINET CAIS CAISSON CPT CARPET CI CAST IRON CIP CAST-IN-PLACE CB CATCH BASIN CP CATHODIC PROTECTION CLG CEILING CLG HT CEILING HEIGHT CEMCEMENT C TO C CENTER TO CENTER CM CENTIMETERS CMT CERAMIC MOSAIC TILE CT CERAMIC TILE CER CERAMIC CHBD CHALKBOARD CHAM CHAMFER CR CHROMIUM (PLATED) CIR CIRCUMFERENCE CO CLEANOUT CLR CLEAR CLO CLOSET COEF COEFFICIENT CU COEFFICIENT OF UTILIZATION CW COLD WATER COL COLUMN COMB COMBINATION COMPT COMPARTMENT COMPR COMPRESSS(ED)(ION) (IRLE) CONC CONCRETE CMUCONCRETE MASONRY UNIT CONN CONNECTION CONST CONSTRUCTOIN CONT COINTUE, CONTINUOUS CLL CONTRACT LIMIT LINE CONTR CONTRACTOR CJ CONTROL JOINT CONV CONVENIENCE CPR COPPER CORR CORRIDOR CTR COUNTER CFL COUNTERFLASHING CS COUNTERSINK CRS COURSE CU CUBIC CFT CUBIC FOOT CY CUBIC YARD **DPR DAMPROOFING** DP DAMPER_INE DB DECIBEL DEG DEGREE DEMO DEMOLITION DMTDEMOUNTABLE DEPT DEPARTMENT DEP DEPRESSED DTL DETAIL DIAG DIAGONAL DIA DIAMETER DIM DIMENSION DISP DISPENSER DO DITTO DIV DIVISION DR DOOR DBL DOUBLE DA DOUBLE-ACTING DWLDOWEL DN DOWN DS DOWNSPOUT DR DRAIN DT DRAINTILE DWR DRAWER DWG DRAWING DF DRINKING FOUNTAIN DW DISHWASHER EF EACH FACE

EVERACH WAY EEACH WAY EEAST ELB ELBOW ELEC ELECTRIC(AL) EWH ELECTRIC WATER HEATER EWC ELECTRIC WATER COOLER EL ELEVATION ELEV ELEVATOR EMER EMERGENCY ENCL ENCLOSURE ENGR ENGINEER

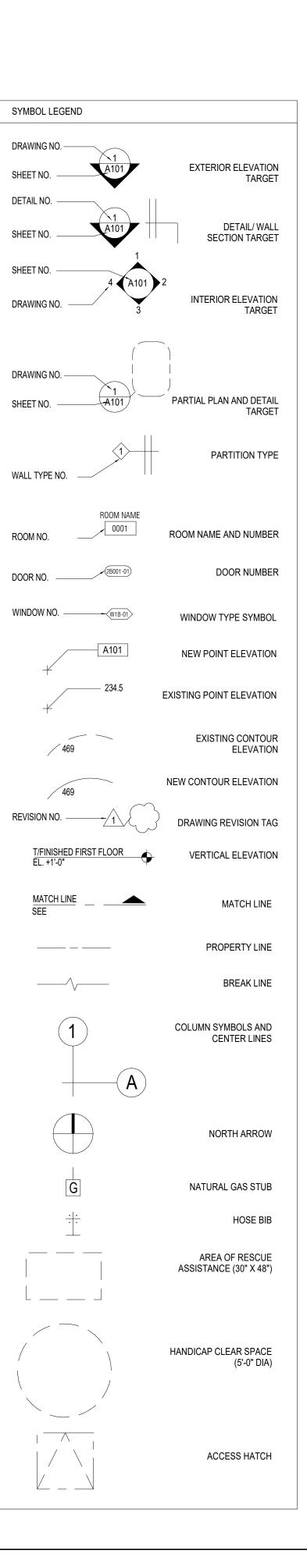
JB JUNCTION BOX

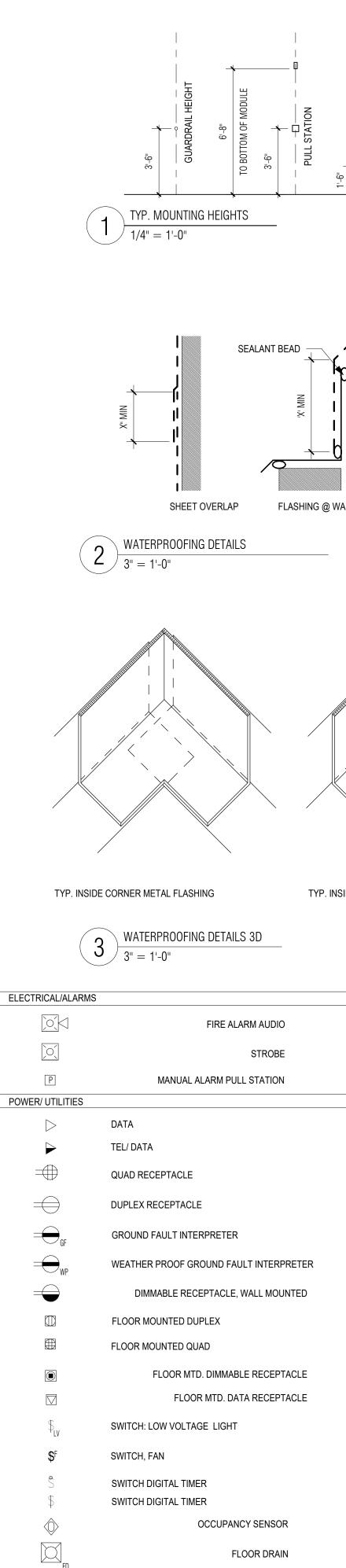
ENT ENTRANCE EQ EQUAL EQUIP EQUIPMENT ESC ESCALATOR EST ESTIMATE EXC EXCAVATE EXEC EXECUTIVE EXH EXHAUST EXIST EXISTING EJ EXPANSION JOINT EXP EXPOSED EXT EXTERIOR EXS EXTRA STRONG FAB FABRICATE FB FACE BRICK FOC FACE OF CONCRETE FOF FACE OF FINISH FOMFACE OF MASONRY FOS FACE OF STUDS F TO F FACE TO FACE FF FACTORY FINISH FT FEET,FOOT FBD FIBERBOARD FGL FIBERGLASS FIG FIGURE FIN FINISH FFL FINISHED FLOOR FA FIRE ALARM FDC FIRE DEPARTMENT CONNECTION FEC FIRE EXTINGUISHER CABINET FVC FIRE VALVE VABINET FHC FIRE HOSE CABINET FHS FIRE HOSE STATION FHY FIRE HYDRANT FRC FIRE-RESISTANT COATING FRT FIRE-RETARDANT FL FIRE LINE FP FIREPROOF FR FIRE RESISTANT FLG FLASHING FH FLAT HEAD FLEX FLEXIBLE FL FLOOR FD FLOOR DRAIN FLRG FLOORING FS FLOOR SINK FLUOR FLUORESCENT FJ FLUSH JOINT FTG FOOTING FDNT FOUNDATION FRM(G) FRAME(D),(ING) FS FULL SIZE FURN FURNISH FBO FURNISHED BY OTHERS FUR FURRED(ING) GAT GAGE OR GAUGE GAL GALLON GALV GALVANIZED GI GALVANIZED IRON GP GALVANIZED PIPE GSM GLAVANIZED SHEET METAL G GAS GKT GASKET GEN'L GENERAL GC GENERAL CONTRACTOR GENGENERATOR GL GLASS, GLAZING GLF GLASS FIBER GMU GLAZED MASONRY UNIT GST GLAZED STRUCTURAL TILE GOVT GOVERNMENT GB GRABBAR GD GRADE; GRADING **GRT GRATING** GVL GRAVEL GR GRILLE GRND GROUND GF GROUND FACE GFCI GROUND FAULT CIRCUIT INTERUPTOR GT GROUT GD GUTTER DRAIN GWB GYPSUM WALL BOARD GPL GYPSUM PLASTER GPT GYPSUM TILE HC HANDICAP HGRHANGER HBD HARDBOARD HRDW HARDWARE HOWD HARDWOOD HD HEAD HDR HEADER HTR HEATER HTG HEATING HVAC HEATING/VENT/AIR COND. HBY HEAVY HD HEAVY DUTY HT HEIGHT HEX HEXAGONAL HWY HIGHWAY HC HOLLOW CORE HM HOLLOW METAL HORHORIZONTAL HP HORSEPOWER HB HOSE BIB HW HOTWATER HWH HOT WATER HEATER **HSGHOUSING** HYD HYDRAULIC INC INCANDESCENT IN INCH INCIN INCINERATOR INCLINCLUDE(D),(ING) INFO INFORMATION ID INSIDE DIAMETER INS INSULATION INT INTERIOR INTM INTERMEDIATE INV INVERT IE INVERT ELEVAITON IP IRON PIPE IPS IRON-PIPE SIZE JAN JANITOR JT JOINT JF JOINT FILLER J JOIST JCT JUNCTION

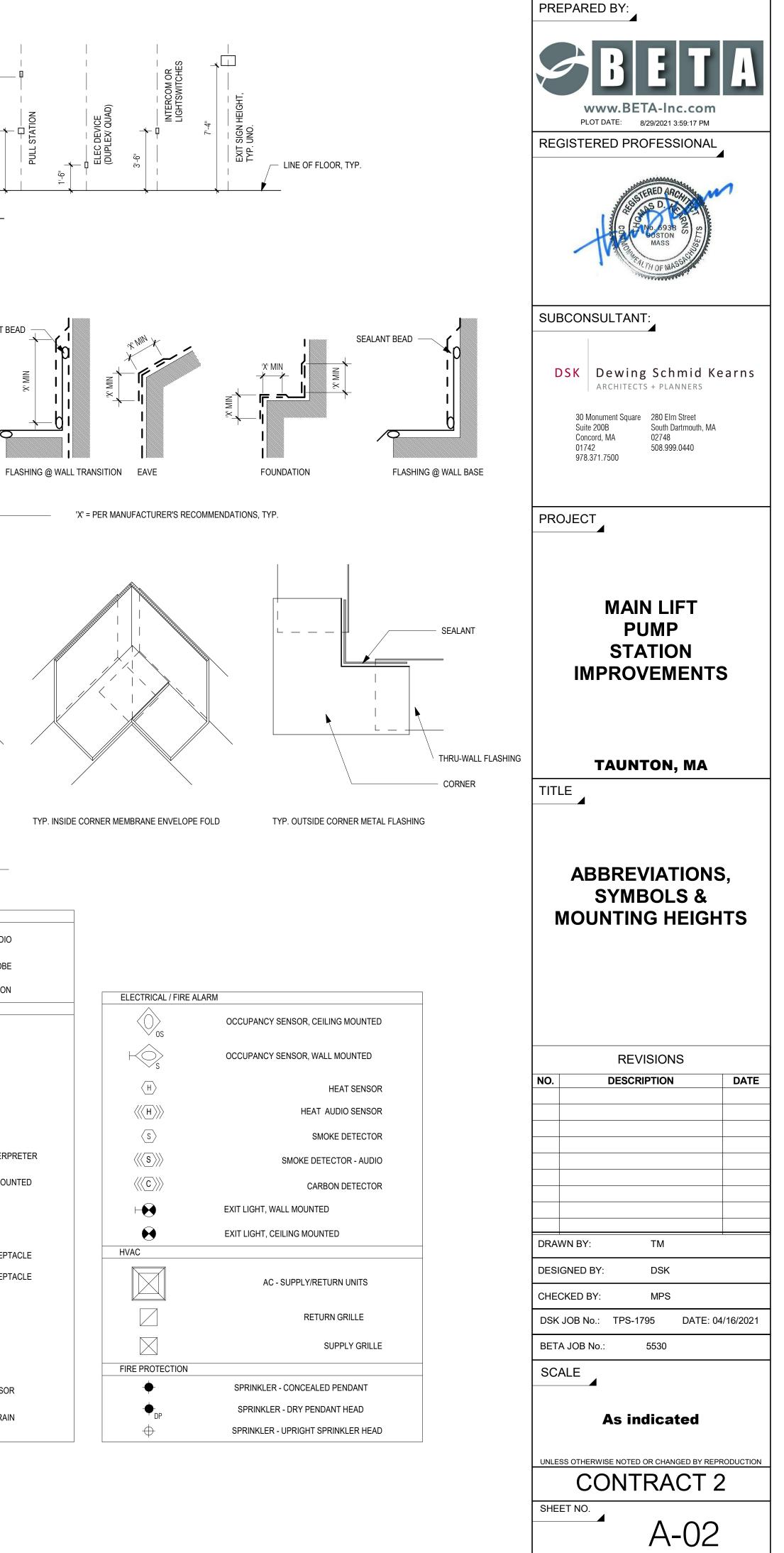
LB LAG BOLT OR POUND LAM LAMINATE LDG LANDING LAV LAVATORY LH LEFT HAND LENGTH LIB LIBRARY LT LIGHT LTG LIGHTING LP LIGHTPROOF LW LIGHTWEIGHT LF LINEAR FEET LTL LINTEL LL LIVE LOAD LVR LOUVER LP LOW PRESSURE LPT LOW POINT LV LOW VOLTAGE MACH MACHINE MB MACHINE BOLT MH MANHOLE MANMANUAL MFR MANUFACTURE(R) MFDMANUFACTURED MFGMANUFACTURING MK MARK MASMASONRY MATL MATERIAL(S) MAXMAXIMUM MECH MECHANICAL MC MEDICINE CABINET MEDMEDIUM MBRMEMBER MMB MEMBRANE MV MERCURY VAPOR MTL METAL MFD METAL FLOOR DECKING MRDMETAL ROOF DECKING M METER MEZZ MEZZANINE MI MILES MM MILLIMETER MWK MILLWORK MIN MINIMUM MIR MIRROR MISC MISCELLANEOUS M.O. MASONRY OPENING MOD MODULE; MODULAR ML MODULE LINE MLD MOLDING; MOULDING MR MOP RECEPTOR MTRMOTOR MT MOUNT(ED); (ING) MOV MOVABLE MULL MULLION NAT NATURAL NI NICKEL NRCNOISE REDUCTION COEFFICIENT NOM NORMAL N NORTH NIC NOT IN CONTRACT NTS NOT TO SCALE NO NUMBER OFF C OFF CENTER OFF OFFICE OC ON CENTER(S) OSD OPEN SITE DRAIN OPGOPENING OJ OPEN-WEB JOIST OPP OPPOSITE OPH OPPOSITE HAND OPS OPPOSITE SURFACE OTS OPEN TO STRUCTURE OZ OUNZE OD OUTSIDE DIAMETER OA OVERALL OH OVERHEAD PNT PAINT PR PAIR PNL PANEL PAR PARALLEL PBD PARTICLE BOARD PTN PARTITION PVMT PAVEMENT PEN PENETRATION PNTHS PENTHOUSE PERF PERFORATED PC PIECE PLAS PLASTER PLAM PLASTIC LAMINATE PL PLATE PG PLATE GLASS PD PLAZA DRAIN PLBG PLUMBING PS PLUMBING STACK PLWD PLYWOOD PT PRESSURE TREATED PI POINT OF INTERSECTION POL POLISHED PVC POLYVINYL CHLORIDE PORC PORCELAIN PE PORCELAIN ENAMEL PTC POST-TENSIONED CONCRETE PCF POUNDS PER SQUARE FOOT PLF POUNDS PER LINEAR FOOT PSI POUNDS PER SQUARE INCH PWR POWER PC PRECAST CONCRETE PFB PREFAB PFN PREFINISHED PRF PREFORMED PSC PRESTRESSED CONCRETE PROT PROTECTION PL PROPERTY LINE PA PURUCADDRESS QTY QUANTITY QT QUART QUT QUARRY TILE RBT RABBET RAD RADIUS RL RAILING RR RAILROAD RWC RAINWATER CONNECTION RECP RECEPTACLE REF REFERENCE RFL REFLECT(ED),(IVE),(OR) RCP REFLECTED CEILING PLAN REFR REFRIGERATOR REGREGISTER REINF REINFORCE(D),(ING)

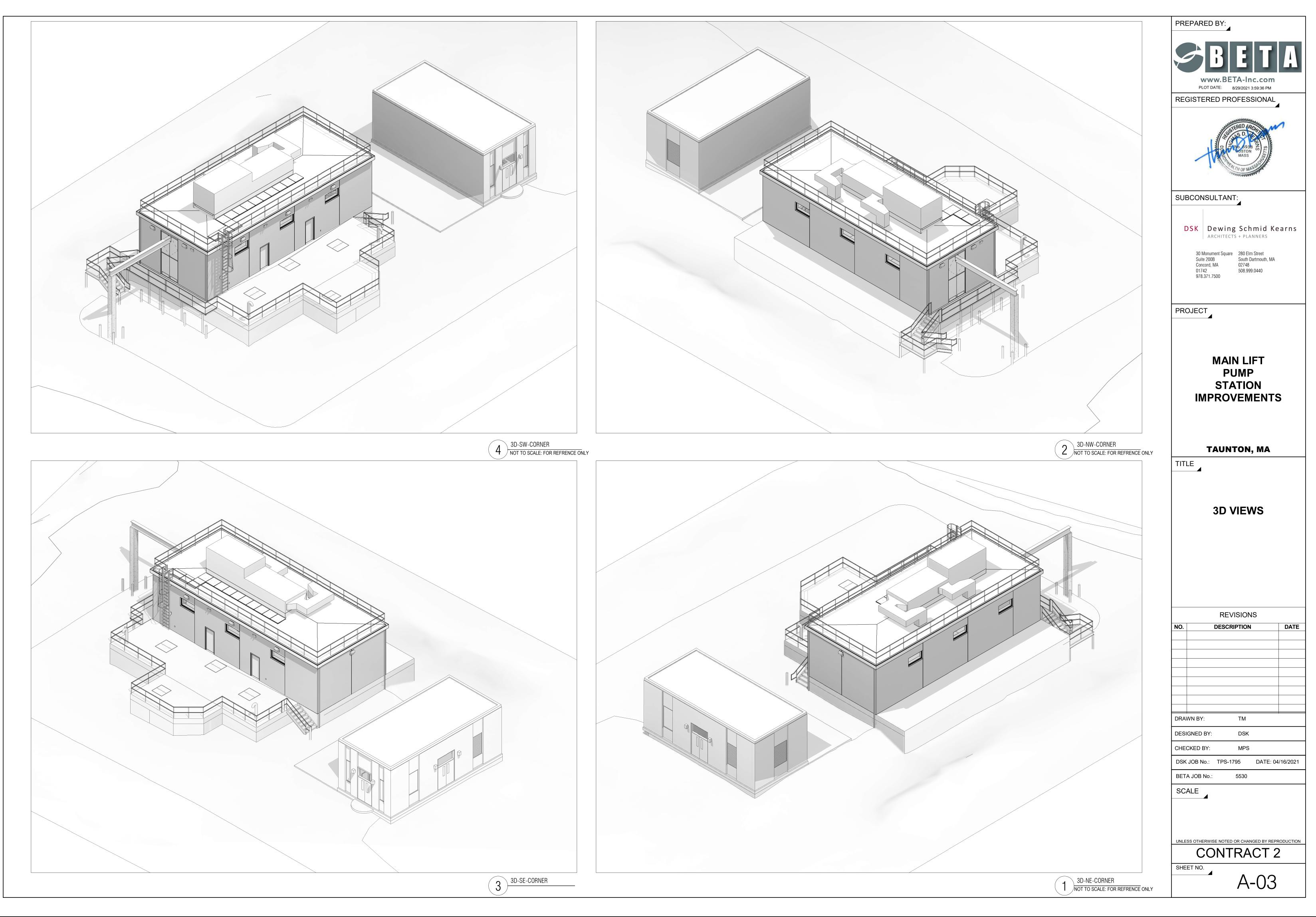
RC REMOTE CONTROL REMREMOVE, REMOVABLE REQ REQUIRE(D) **RES RESILIENT** RA RETURN AIR RVS REVERSE (SIDE), REVISE(D) **REV REVISION** RH RIGHT HAND ROW RIGHT OF WAY R RISER ROBROD-OUT BASIN RD ROOF DRAIN **RFG ROOFING** RFH ROOF HATCH RM ROOM RO ROUGH OPENING RB RUBBER BASE RT RUBBER TILE S SOUTH SFGL SAFETY GLASS SALV SALVAGE SAN SANITARY SCHED SCHEDULE SECY SECRETARY SECT SECTION SSNK SERVICE SINK SB SETTING BASIN SHT SHEET SG SHEET GLASS SM SHEET METAL SH SHOWER SIM SIMILAR SKL SKYLIGHT SL SLEEVE SD SMOKE DETECTOR SC SOLID CORE SP SOUND PROOF SPK SPEAKER SPEC SPECIFICATION SBL SPLASH BLOCK SPLR SPRINKLER SQ SQUARE SS STAINLESS STEEL SP STANDPIPE STD STANDARD STA STATION STM STEAM STL STEEL ST STONE STO STORAGE SRD STORM DRAIN STR STRUCTURAL SCT STRUCTURAL CLAY TILE SSD SUB-SOIL DRAIN SUPT SUPERINTENDENT SUPP SUPPLEMENT SUS SUSPEND(ED) SW SWITCH SWBD SWITCHBOARD SWGR SITCHGEAR SYMSYMMETRY(ICAL) TYN TREADETIC TKBD TACKBOARD TKS TACKSTRIP TAN TANGENT TEL TELEPHONE TV TELEVISION TEMP TEMPERATURE TC TERRA COTTA TZ TERRAZZO THK THICK(NESS) THD THREAD THRESH THRESHOLD THRU THROUGH TLT TOILET TPD TOILET PAPER DISPENSER T.O. TOP OF (WALL, DRAIN, ETC) TOL TOLERANCE T&G TONGUE&GROOVE TRANS TRANSFORMER TD TRENCH DRAIN TYP TYPICAL UNEX UNEXCAVATED UL UNDERWRITER'S LABORATORIES UFAS UNIFORM FEDERAL ACCESSIBILITY UH UNIT HEATER UC UNDERCUT UNF UNFINISHED UNOUNLESS NOTED OTHERWISE UR URINAL V VOLT VPBR VAPOR BARRIER VP VENT PIPE VTR VENT THRU ROOF VRMVERMICULITE VERT VERTICAL VG VERTICAL GRAIN VEST VESTIBULE VB VINYL BASE VF VINYL FACRIC VT VINYL TILE VWC VINUL WALL COVERING VCP VITRIFIED CLAY PIPE VJT V-JOINT(ED) VOL VOLUME W WEST WA WATER WB WOOD BASE WC WATER CLOSET WD WOOD WDW WINDOW WF WIDE FLANGE WH WATER HEATER WI WIRE, WROUGHT IRON WLDWELD WLHWALL HYDRANT W.O. WINDOW OPENING WMTR WATER METER WP WATERPROOF(ING), WORKING POINT WR WATER REPELLENT WS WATERSTOP WSCT WAINSCOT WT WEIGHT WTHWIDTH WTW WALL TO WALL WWF WELDED WIRE FABRIC W/ WITH

MATERIAL LEGEND UNDISTURBED COMPACTED SOIL UNDISTURBED SOIL BACKFILL 5 6 7 7 7 7 7 7 7 7 ASPHALT PAVEMENT BITUMINOUS SETTING BED SAND CONCRETE GROUT BRICK CONC. BLOCK STEEL ALUMINIUM STONE FINISH WOOD WOOD BLOCKING _ _ _ _ PLASTIC _ _ _ _ - _ _ _ _ PARTICLE BOARD GYPSUM WALL BOARD PLYWOOD CARPETING ╞╪╪╪╪╪╪ RESILIENT FLOORING PLASTIC _____ LAMINATE GLAZING GLASS BLOCK ACOUSTIC CEILING BOARD BATT / LOOSE INSULATION WATERPROOFING ____ _ RIGID INSULATION SEALANT W/BACKER ROD \bigcirc PRE-MOLDED FILLER COMPRESSIBLE FILLER DEMOLITION

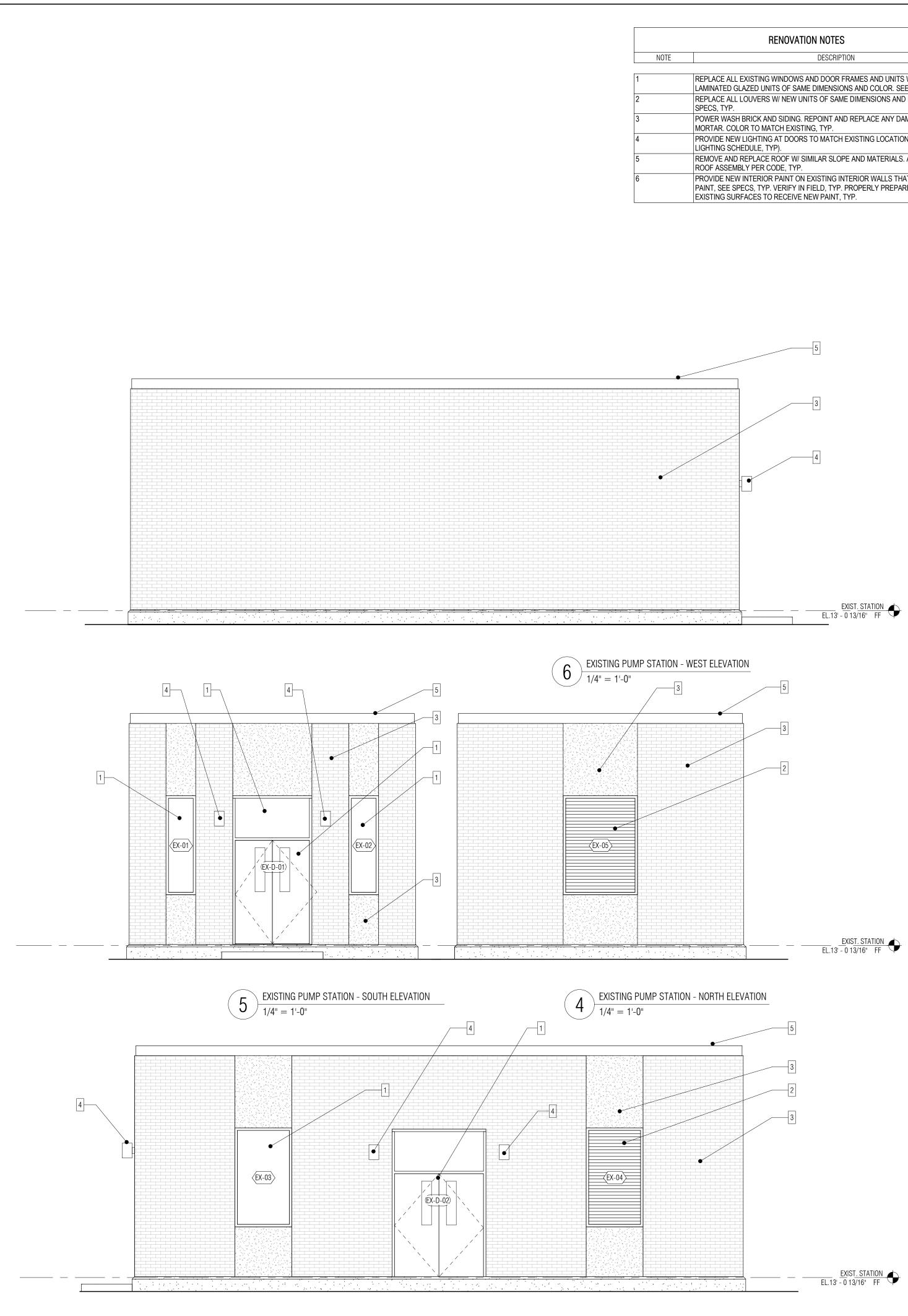








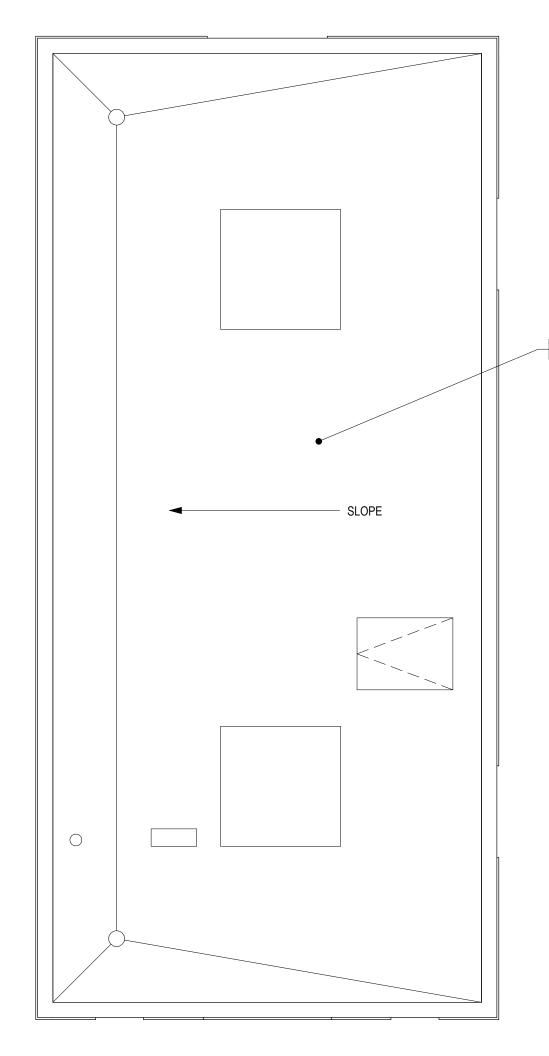
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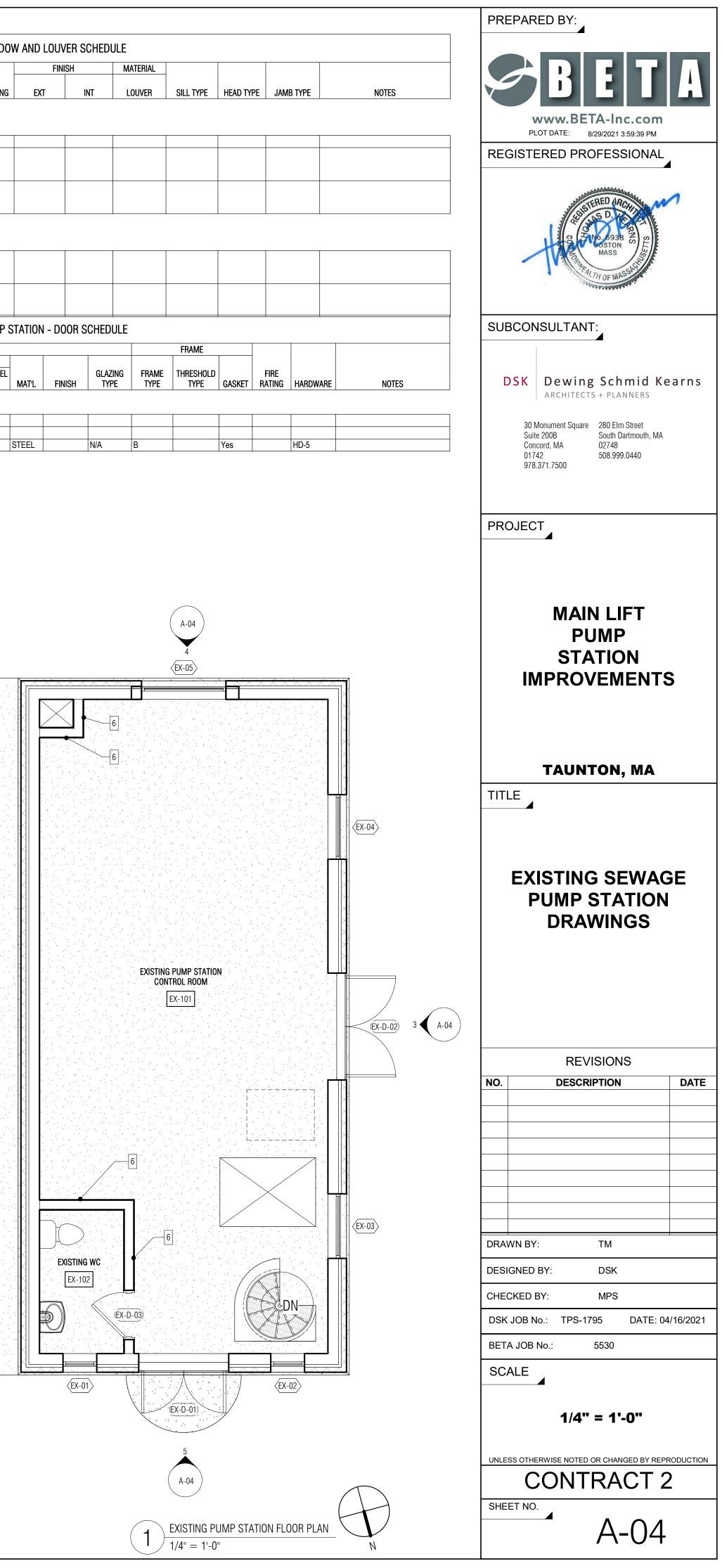
REPLACE ALL EXISTING WINDOWS AND DOOR FRAMES AND UNITS W/ INSULATED, LAMINATED GLAZED UNITS OF SAME DIMENSIONS AND COLOR. SEE SPECS, TYP.
REPLACE ALL LOUVERS W/ NEW UNITS OF SAME DIMENSIONS AND FREE AREA. SEE SPECS, TYP.
POWER WASH BRICK AND SIDING. REPOINT AND REPLACE ANY DAMAGED OR MISSING MORTAR. COLOR TO MATCH EXISTING, TYP.
PROVIDE NEW LIGHTING AT DOORS TO MATCH EXISTING LOCATIONS (SEE ELECTRICAL LIGHTING SCHEDULE, TYP).
REMOVE AND REPLACE ROOF W/ SIMILAR SLOPE AND MATERIALS. ADD INSULATION TO ROOF ASSEMBLY PER CODE, TYP.
PROVIDE NEW INTERIOR PAINT ON EXISTING INTERIOR WALLS THAT CURRENTLY HAVE PAINT, SEE SPECS, TYP. VERIFY IN FIELD, TYP. PROPERLY PREPARE AND PRIME EXISTING SURFACES TO RECEIVE NEW PAINT, TYP.

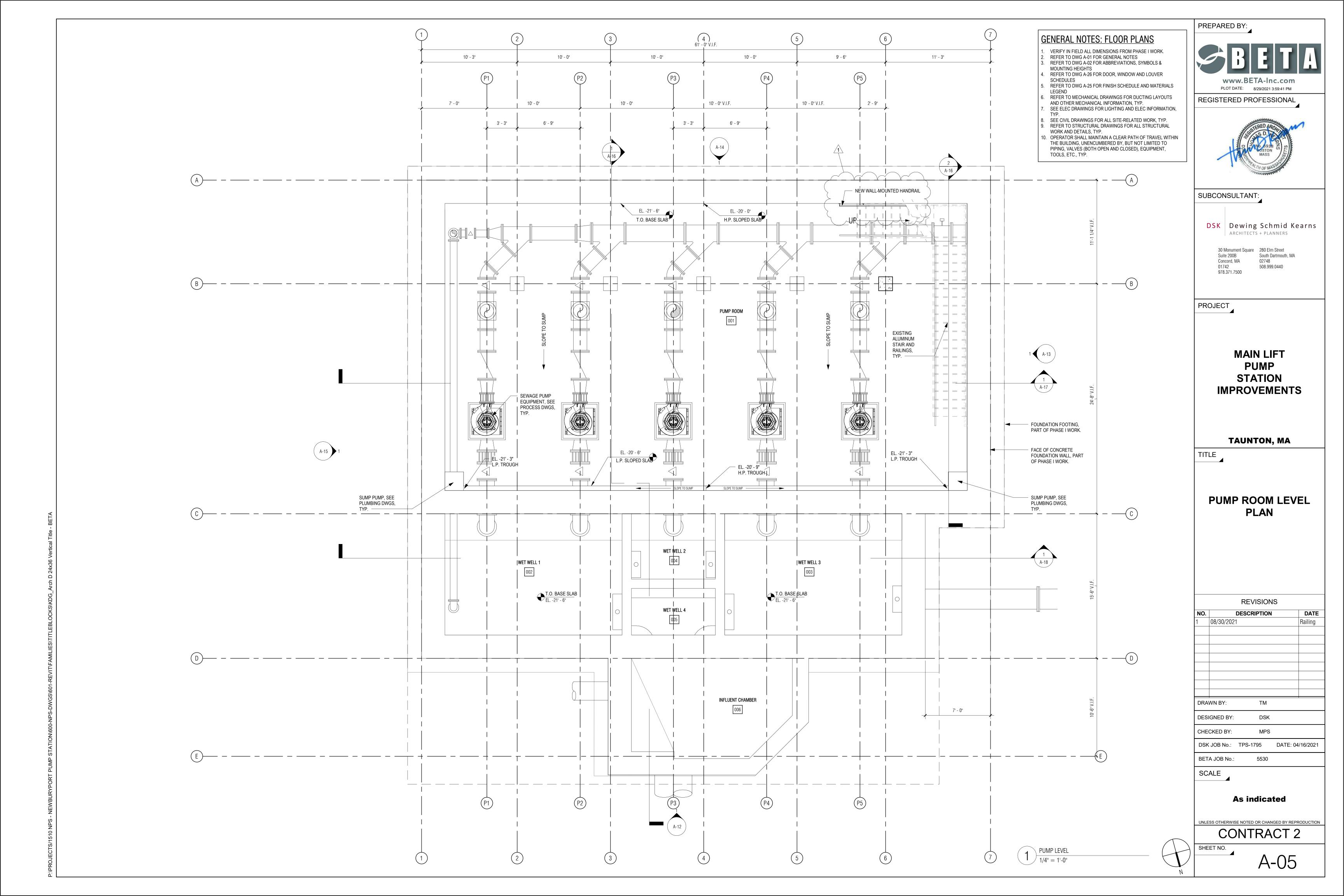
	1	1					EXIS	
			LOCATION	W	NDOW	FRA	ME MATERIA	L
WINDOW	WINDOW	ROOM		WINE	DOW SIZE			
NUMBER	TYPE	NUMBER	ROOM NAME	WIDTH	HEIGH	IT EX	T INT	GLAZING
	TION							
EXIST. STA EX-01		EX-102	EXISTING WC	2' - 0"	6' - 8"			
EX-01 EX-02		EX-102	EXISTING PUMP	2 - 0	6' - 8"			
=X-UZ		EX-101	STATION CONTROL ROOM	2 - 0	0-0			
EX-03		EX-101	EXISTING PUMP STATION CONTROL ROOM	3' - 10"	6' - 8"			
LOUVER EXIST. STA		EV 101		2' 10"	6' 9"			
	TION	EX-101	EXISTING PUMP STATION CONTROL	3' - 10"	6' - 8"			
EXIST. STA		EX-101 EX-101		3' - 10" 3' - 10"	6' - 8" 6' - 8"			
EXIST. STA EX-04	TION		STATION CONTROL ROOM EXISTING PUMP					
EXIST. STA EX-04	TION		STATION CONTROL ROOM EXISTING PUMP STATION CONTROL				EXIST	ING PUMP
EXIST. STA EX-04			STATION CONTROL ROOM EXISTING PUMP STATION CONTROL				EXIST	ING PUMP
EXIST. STA EX-04			STATION CONTROL ROOM EXISTING PUMP STATION CONTROL ROOM		6' - 8"	il SIZE	-	
EXIST. STA EX-04	DOOR		STATION CONTROL ROOM EXISTING PUMP STATION CONTROL ROOM		6' - 8"	EL SIZE HEIGHT	-	DOOR
EXIST. STA EX-04 EX-05 DOOR NUMBER	DOOR	EX-101	STATION CONTROL ROOM EXISTING PUMP STATION CONTROL ROOM	3' - 10"	6' - 8" PANE		P/	DOOR ANEL TOTAL PANEL
EXIST. STA EX-04 EX-05 D00R	DOOR	EX-101	STATION CONTROL ROOM EXISTING PUMP STATION CONTROL ROOM	3' - 10"	6' - 8" PANE		P/	DOOR ANEL TOTAL PANEL
EXIST. STA EX-04 EX-05 DOOR NUMBER EXIST. STA	DOOR	EX-101	STATION CONTROL ROOM EXISTING PUMP STATION CONTROL ROOM	3' - 10"	6' - 8" PANE		P/	DOOR ANEL TOTAL PANEL

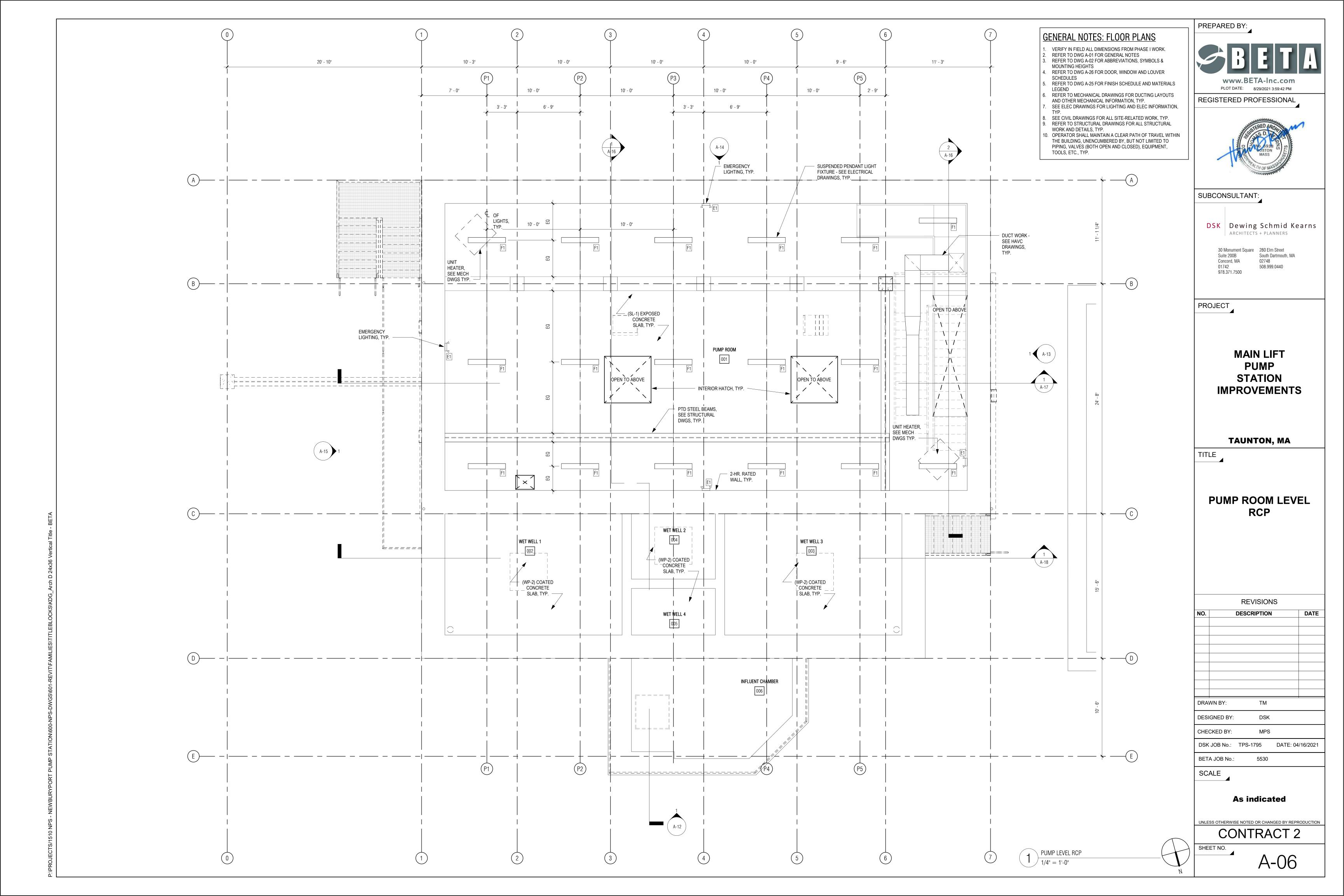
EL.13' - 0 13/16" FF

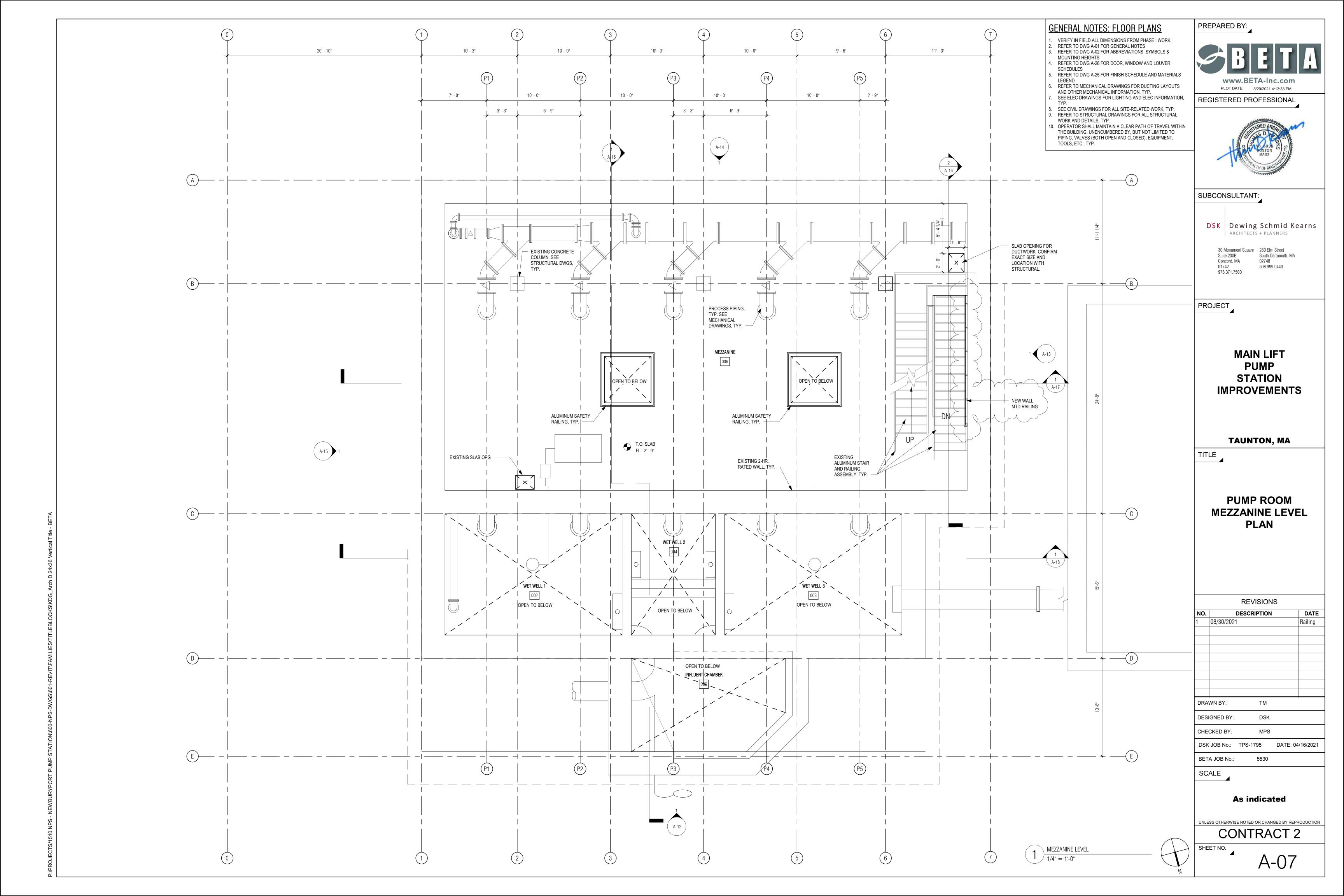


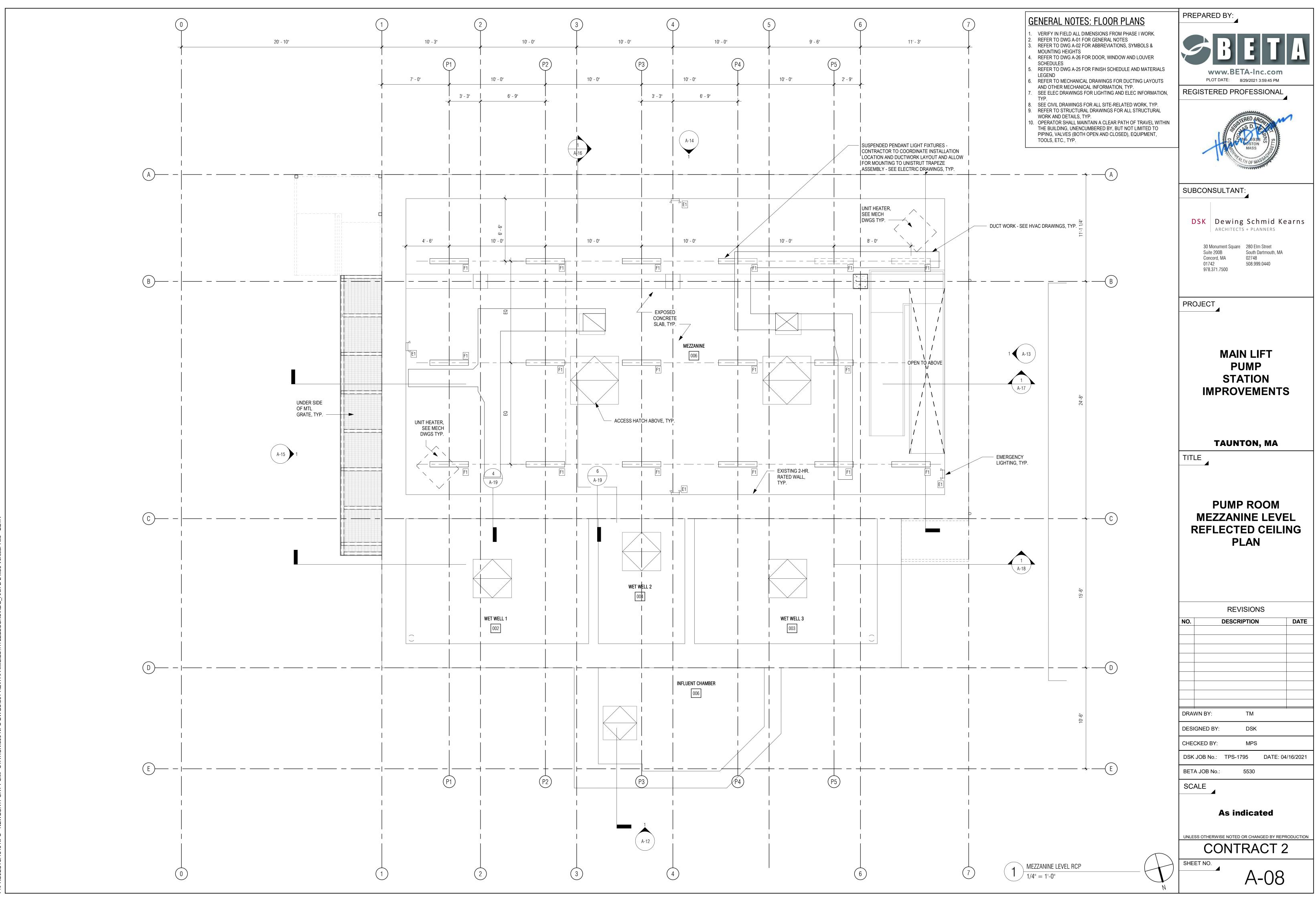
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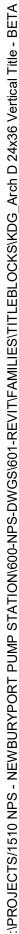




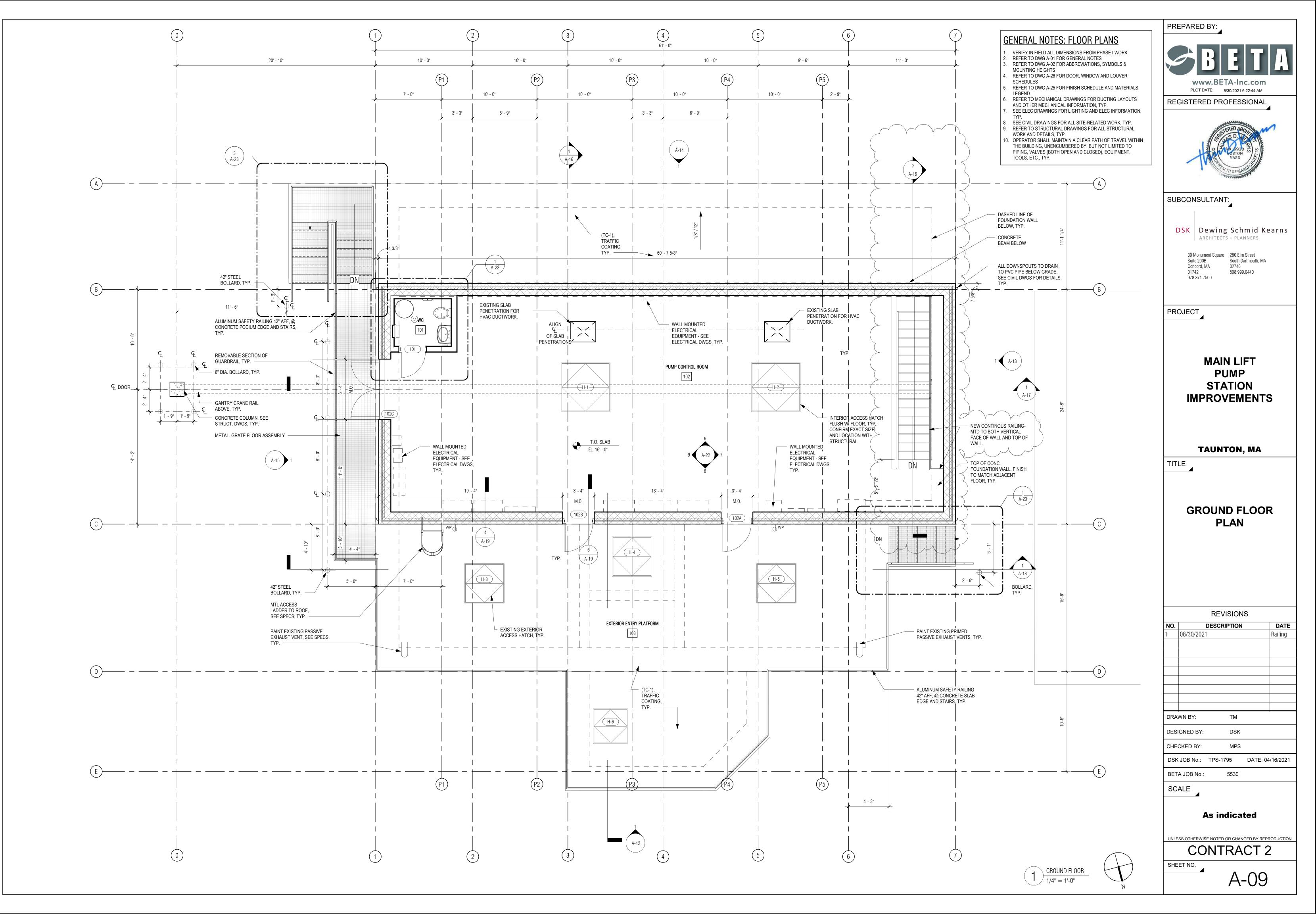


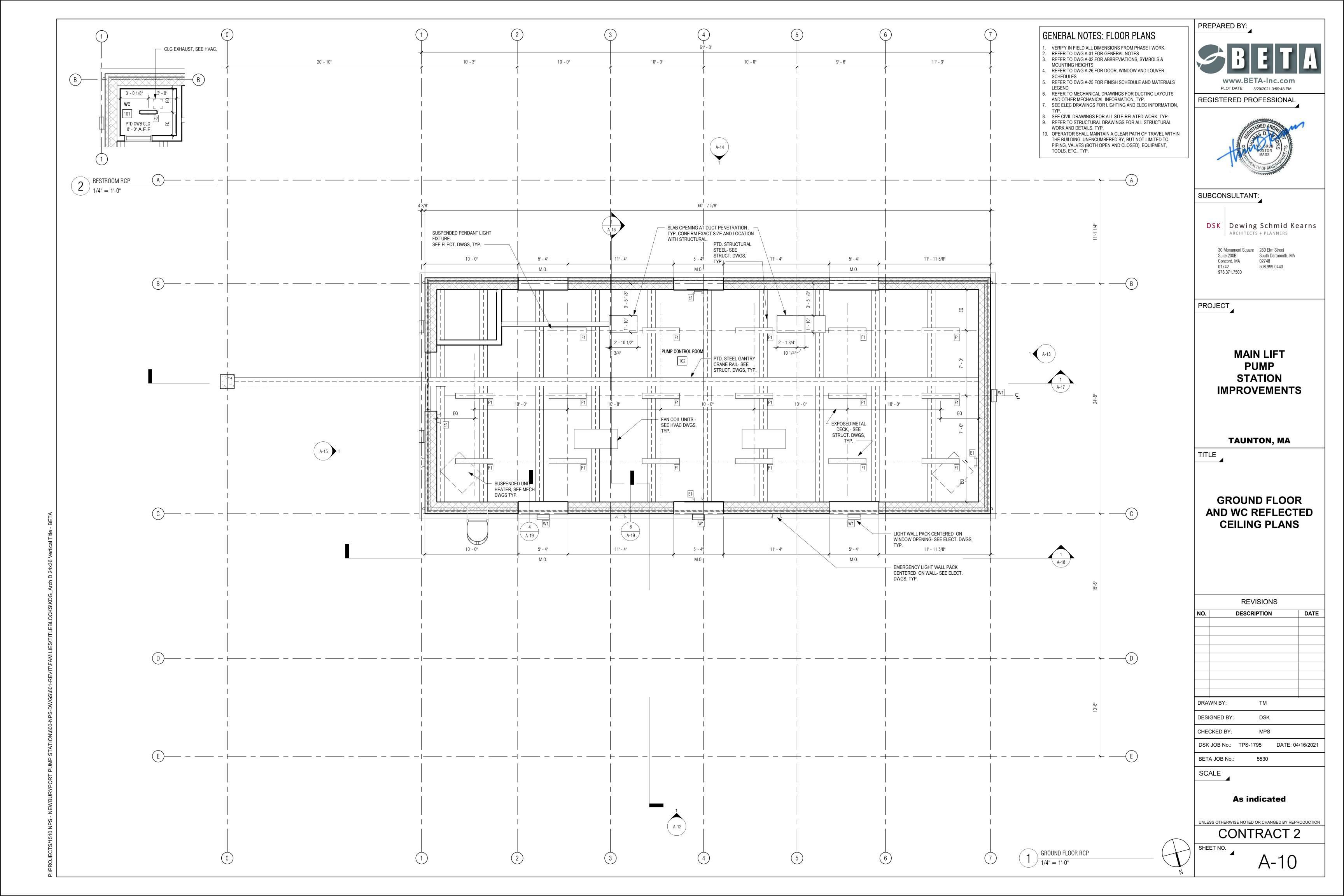


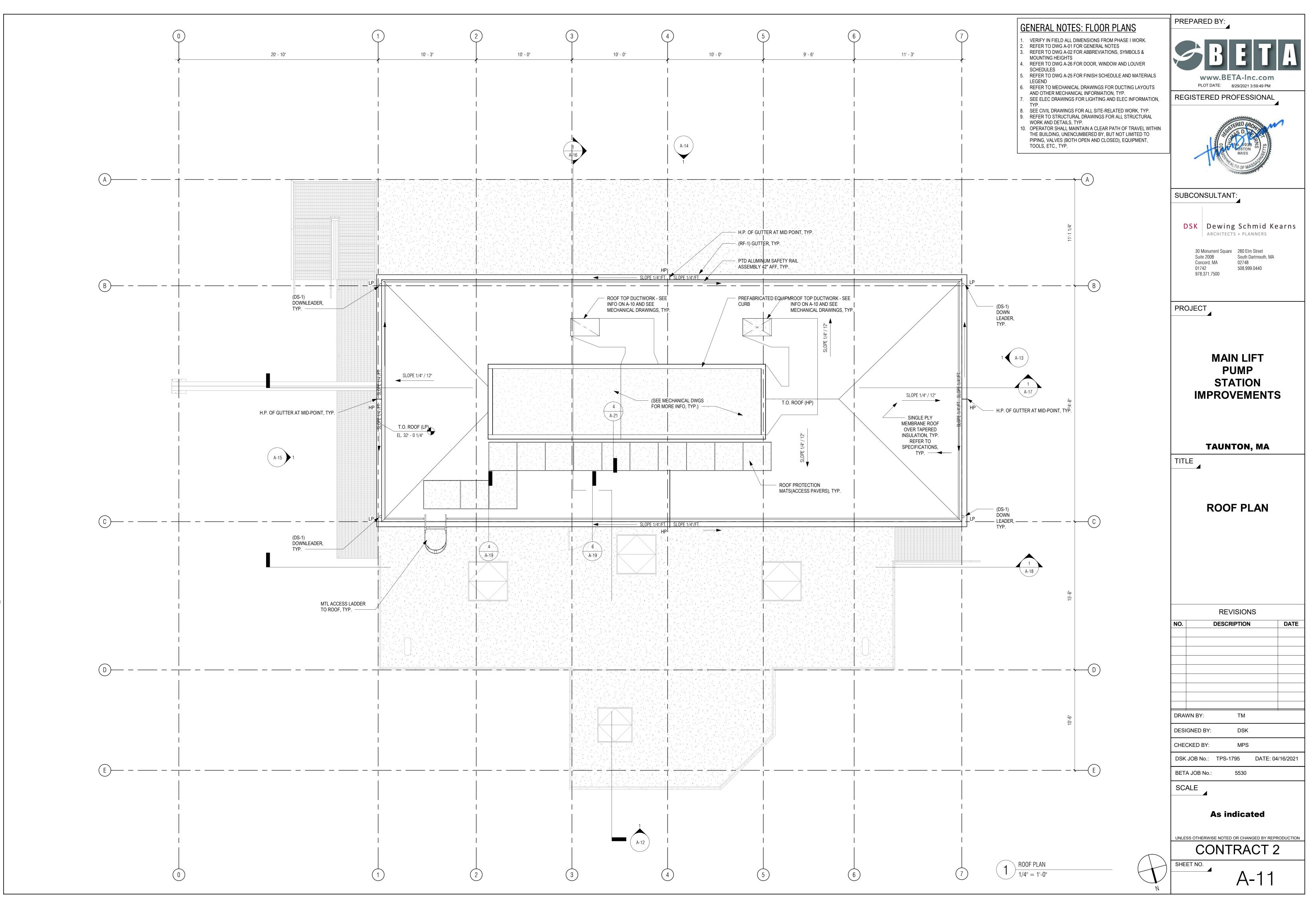




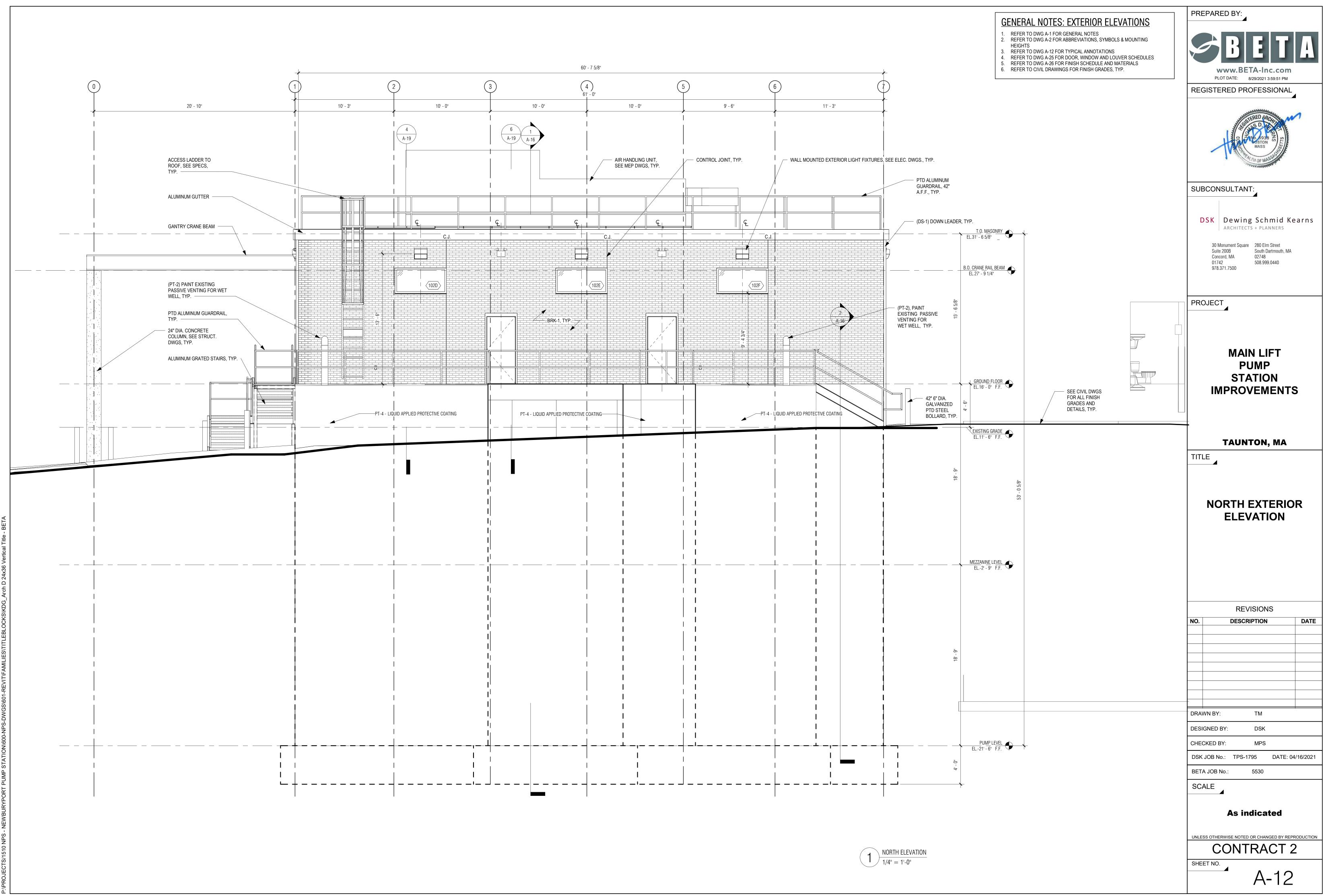
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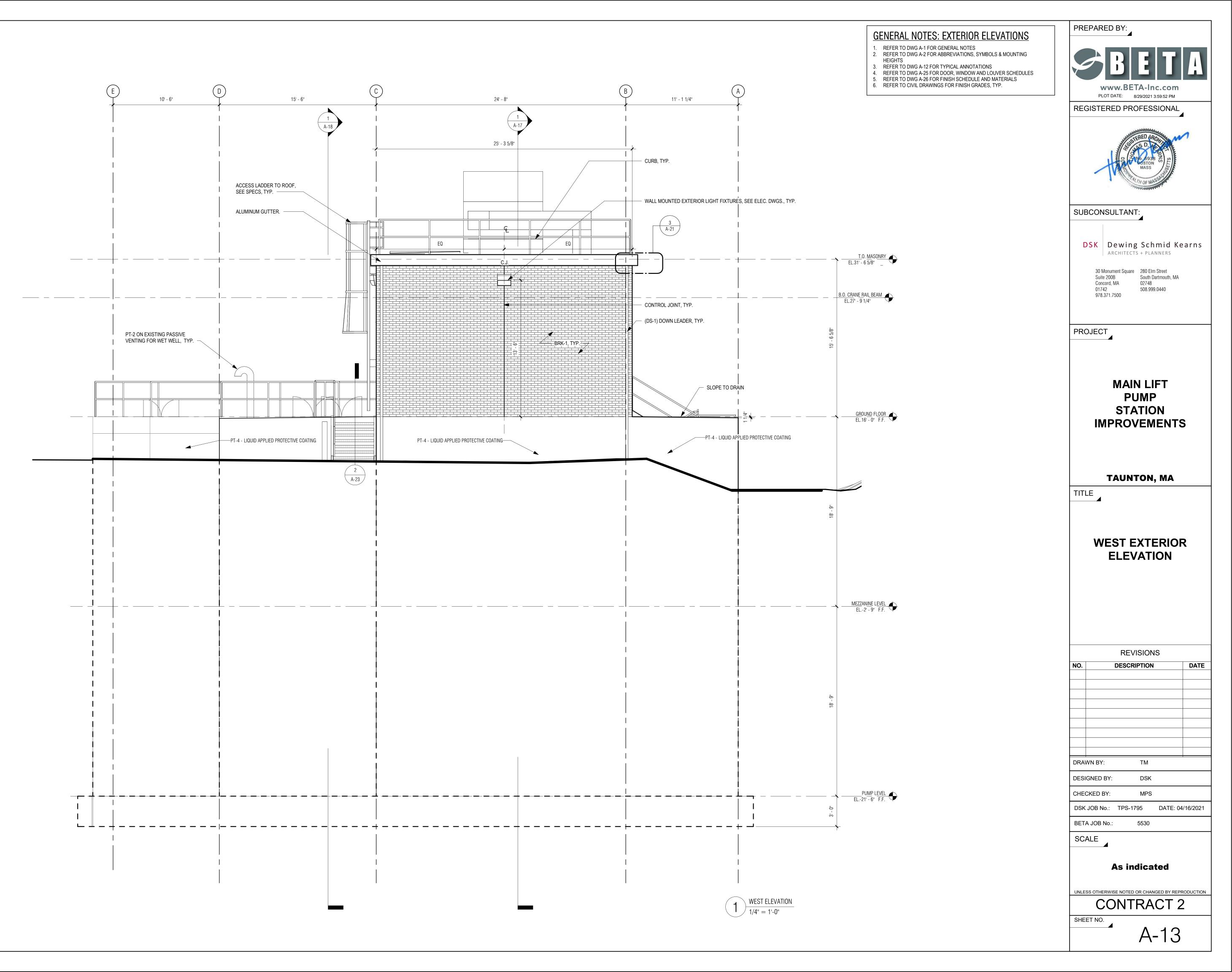




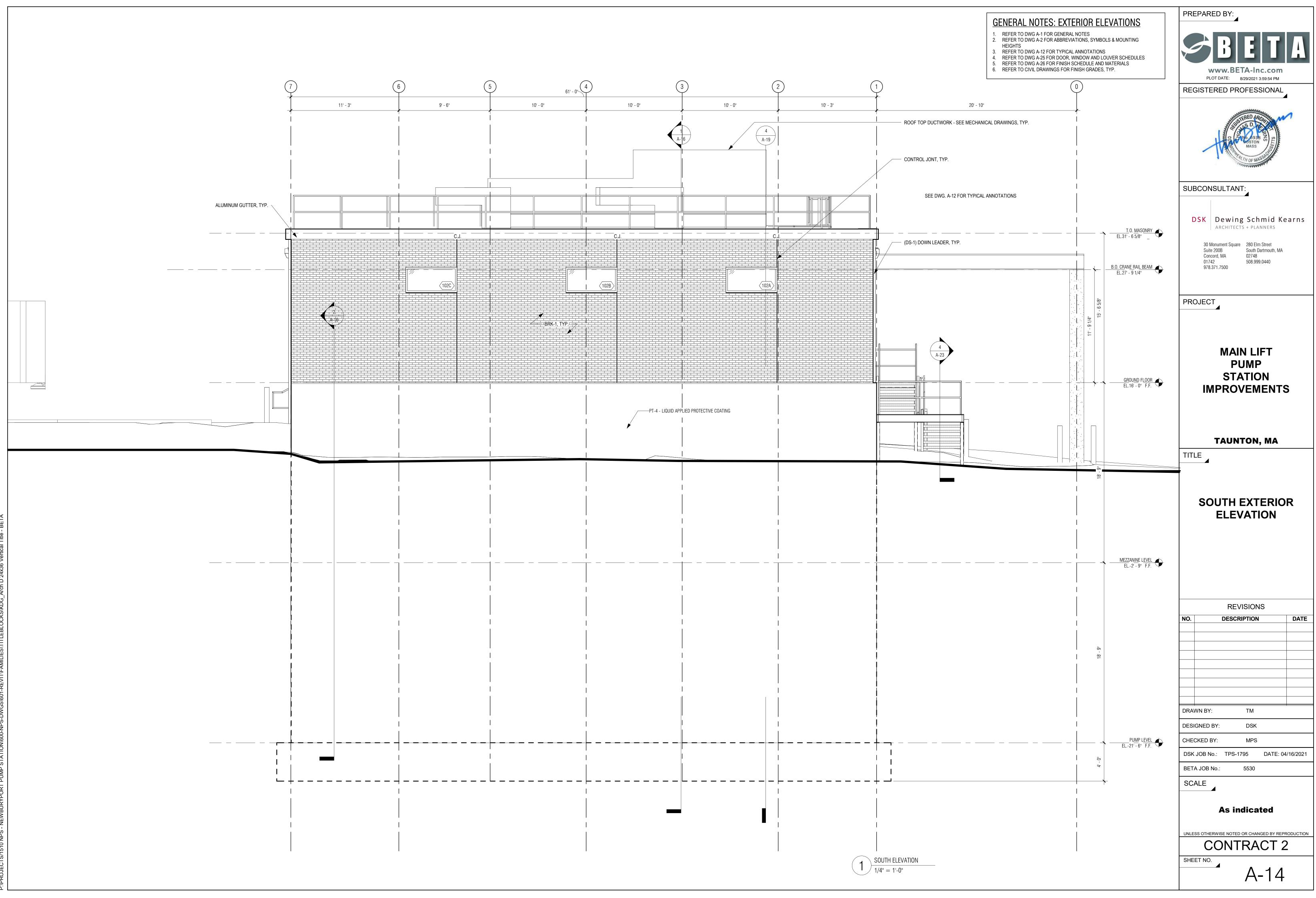


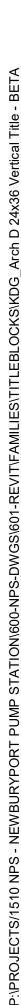
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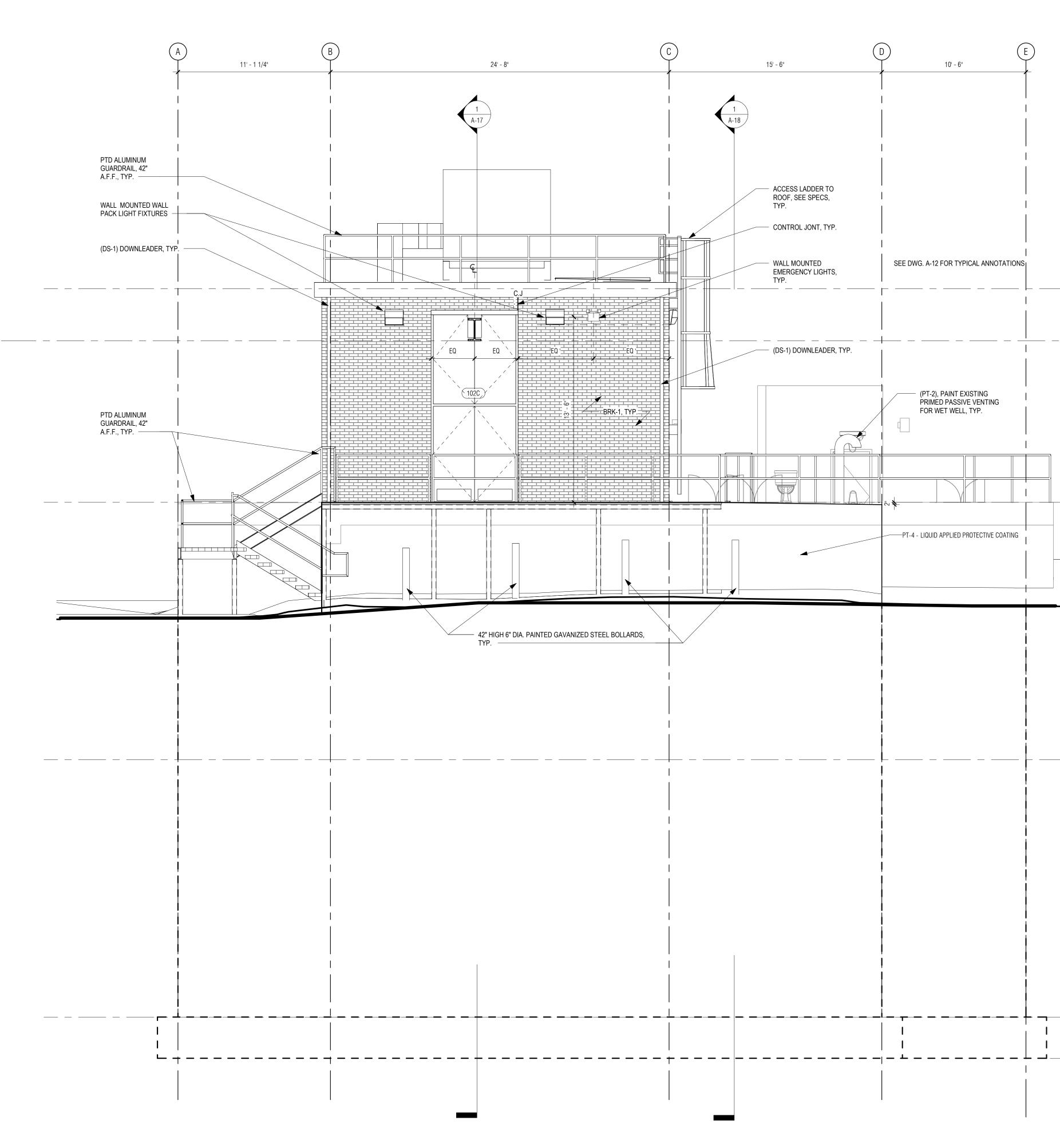




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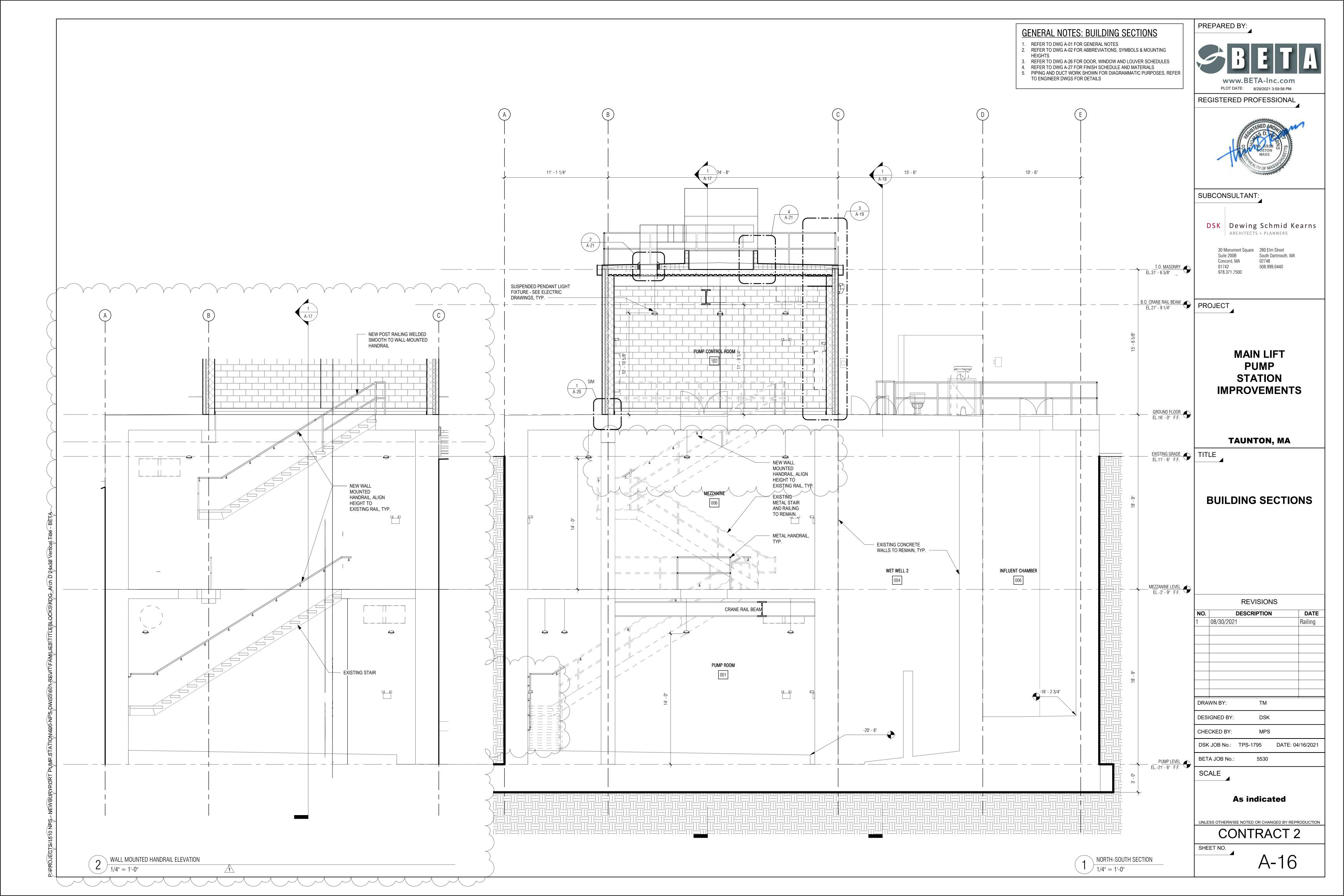


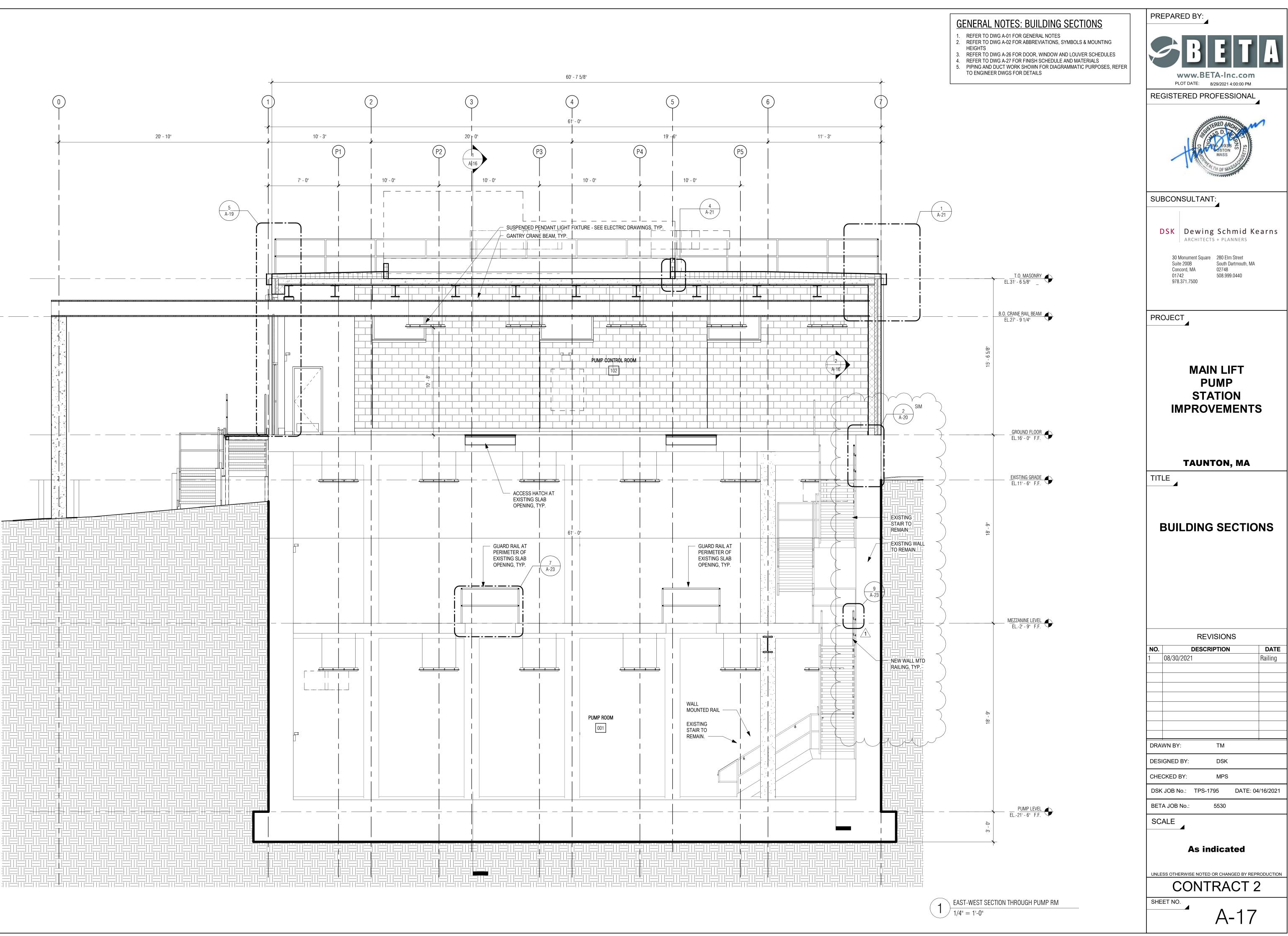




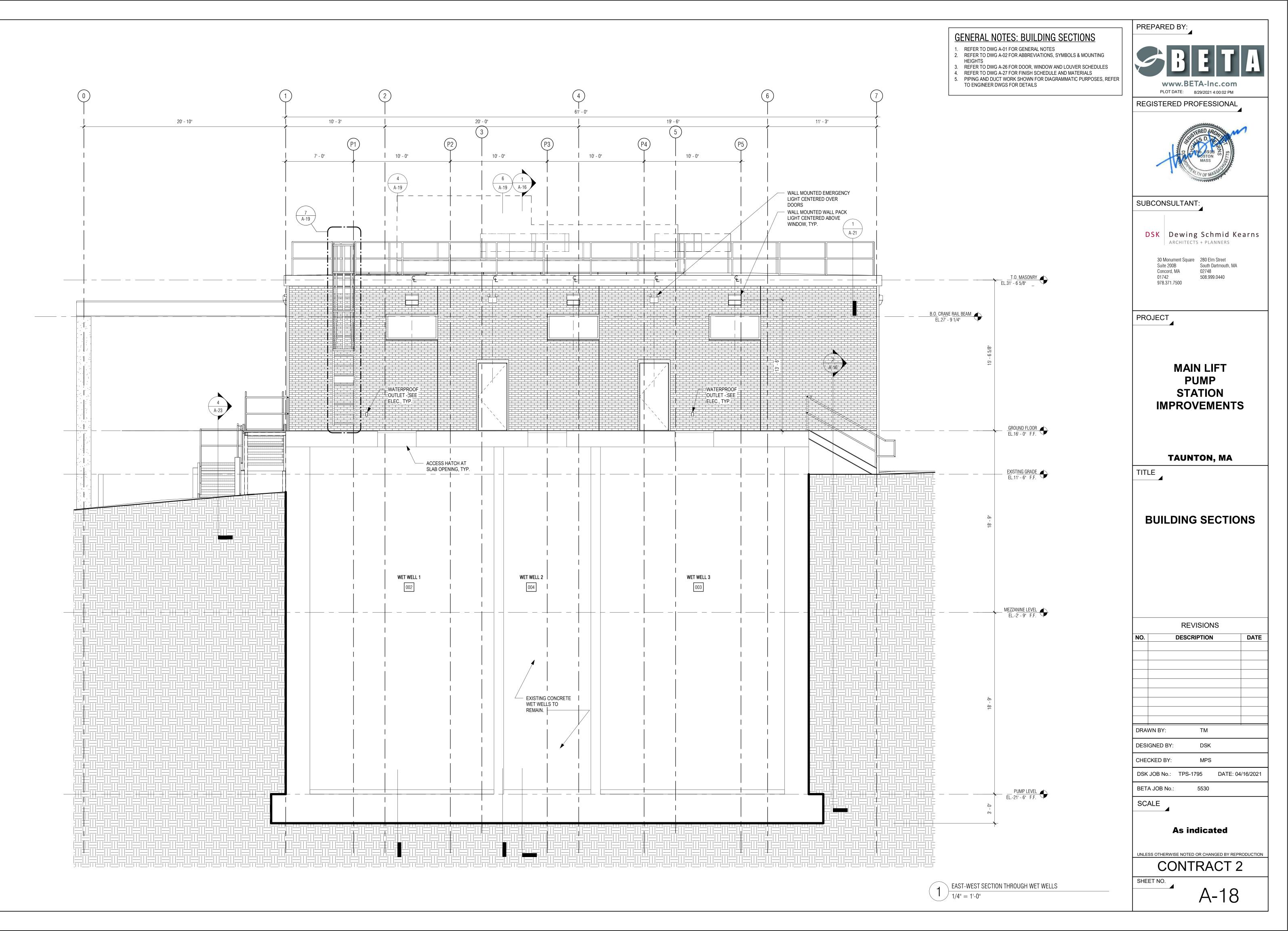
 $1 \quad EAST ELEVATION \\ 1/4" = 1'-0"$

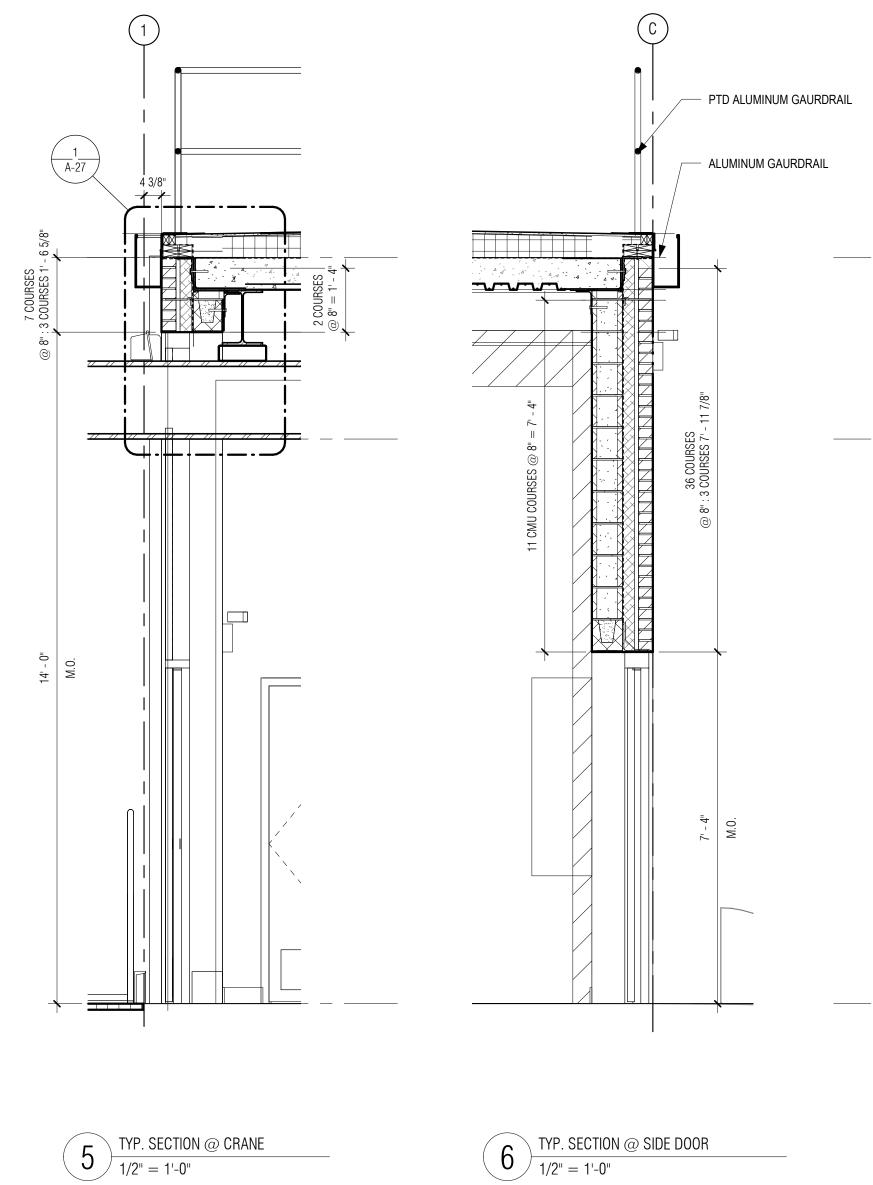
		 REFER TO DWG A-1 FOR GENERAL NOTES REFER TO DWG A-2 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS REFER TO DWG A-12 FOR TYPICAL ANNOTATIONS REFER TO DWG A-25 FOR DOOR, WINDOW AND LOUVER SCHEDULES REFER TO DWG A-26 FOR FINISH SCHEDULE AND MATERIALS REFER TO CIVIL DRAWINGS FOR FINISH GRADES, TYP. 	PREPARED BY: SEBERICA WWW.BETA-Inc.com PLOT DATE: 8/29/2021 3:59:55 PM
			REGISTERED PROFESSIONAL
			S S No. 6938 COSTON MASS COSTON MASS COSTON MASS COSTON MASS COSTON CONO
			SUBCONSULTANT:
			DSK Dewing Schmid Kearns ARCHITECTS + PLANNERS
	T.O. MASONRY EL.31' - 6 5/8"		30 Monument Square 280 Elm Street Suite 200B South Dartmouth, MA
	B.O. CRANE RAIL BEAM EL.27' - 9 1/4"		Concord, MA 02748 01742 508.999.0440 978.371.7500
			PROJECT
34' - 3 5/8"	<u>GROUND</u> FLOOR EL.16' - 0" F.F.		MAIN LIFT PUMP STATION IMPROVEMENTS
			TAUNTON, MA
			TITLE
			EAST EXTERIOR ELEVATION
	MEZZANINE LEVEL EL2' - 9" F.F.		
18 [.] - 9"			REVISIONS NO. DESCRIPTION DATE
			DRAWN BY: TM
			DESIGNED BY: DSK
	PUMP LEVEL EL21' - 6" F.F.		CHECKED BY: MPS
3' - 0"			DSK JOB No.: TPS-1795 DATE: 04/16/2021 BETA JOB No.: 5530
\	~		SCALE
			As indicated
)N			UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION
			SHEET NO А-15

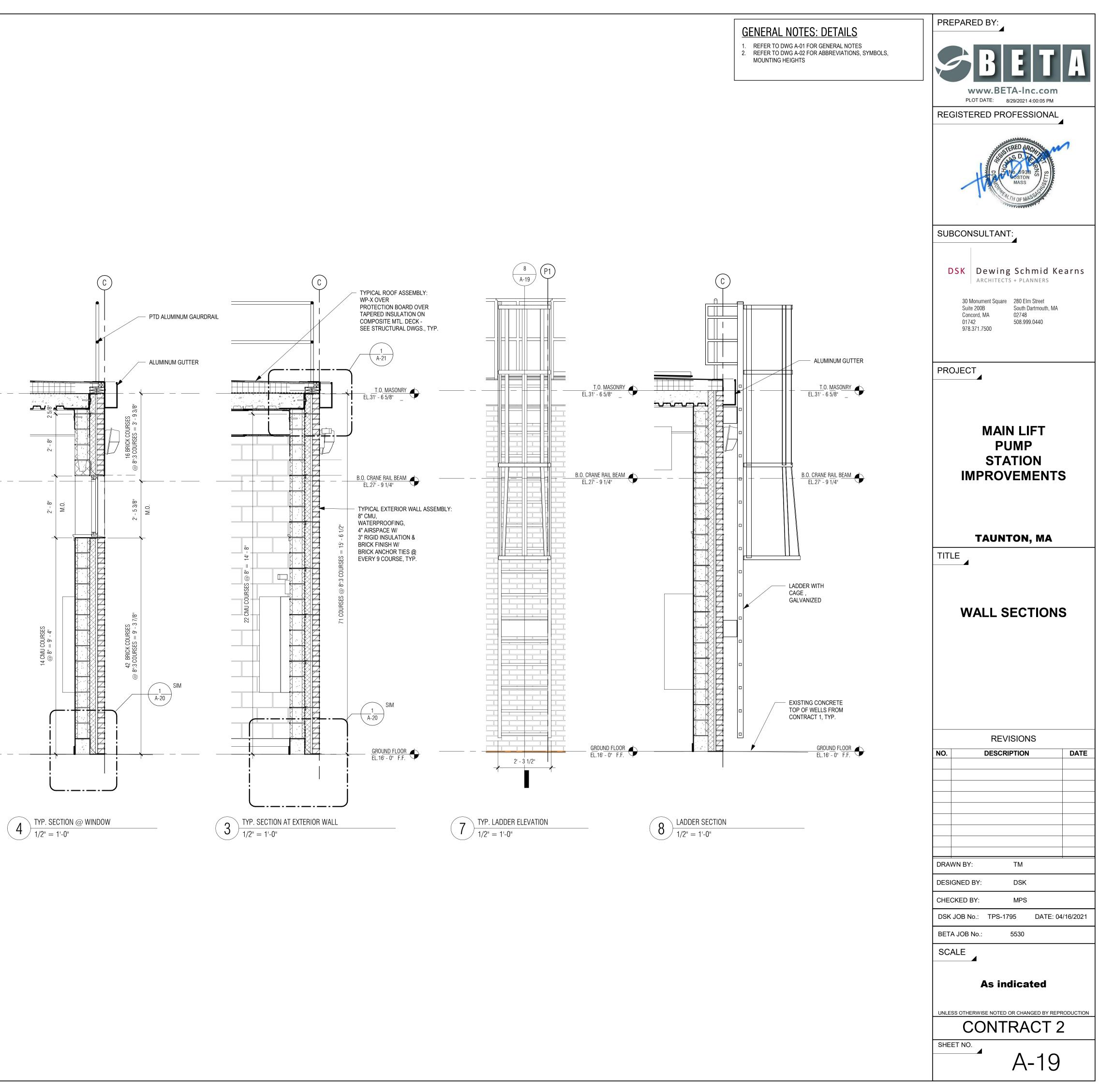


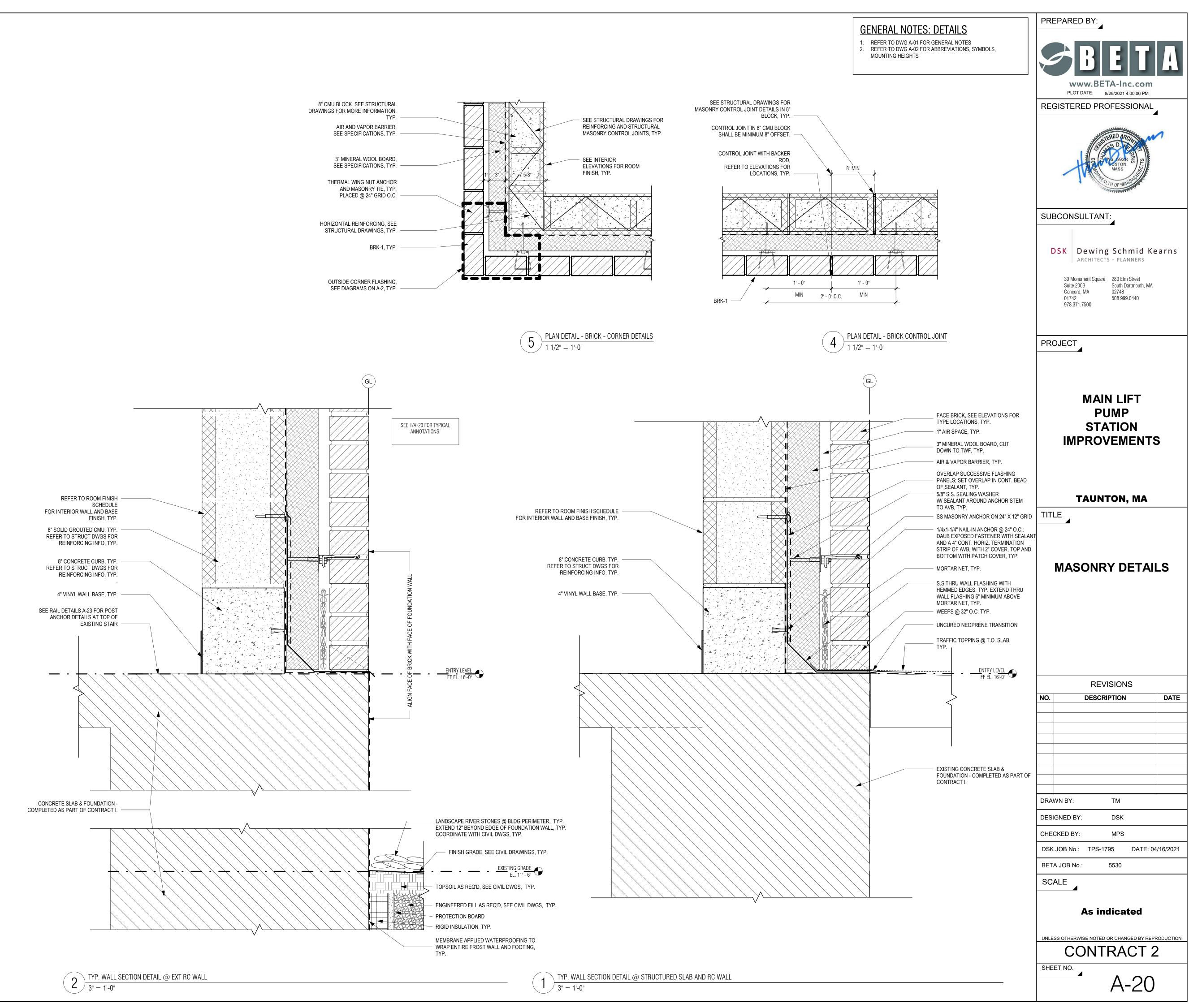


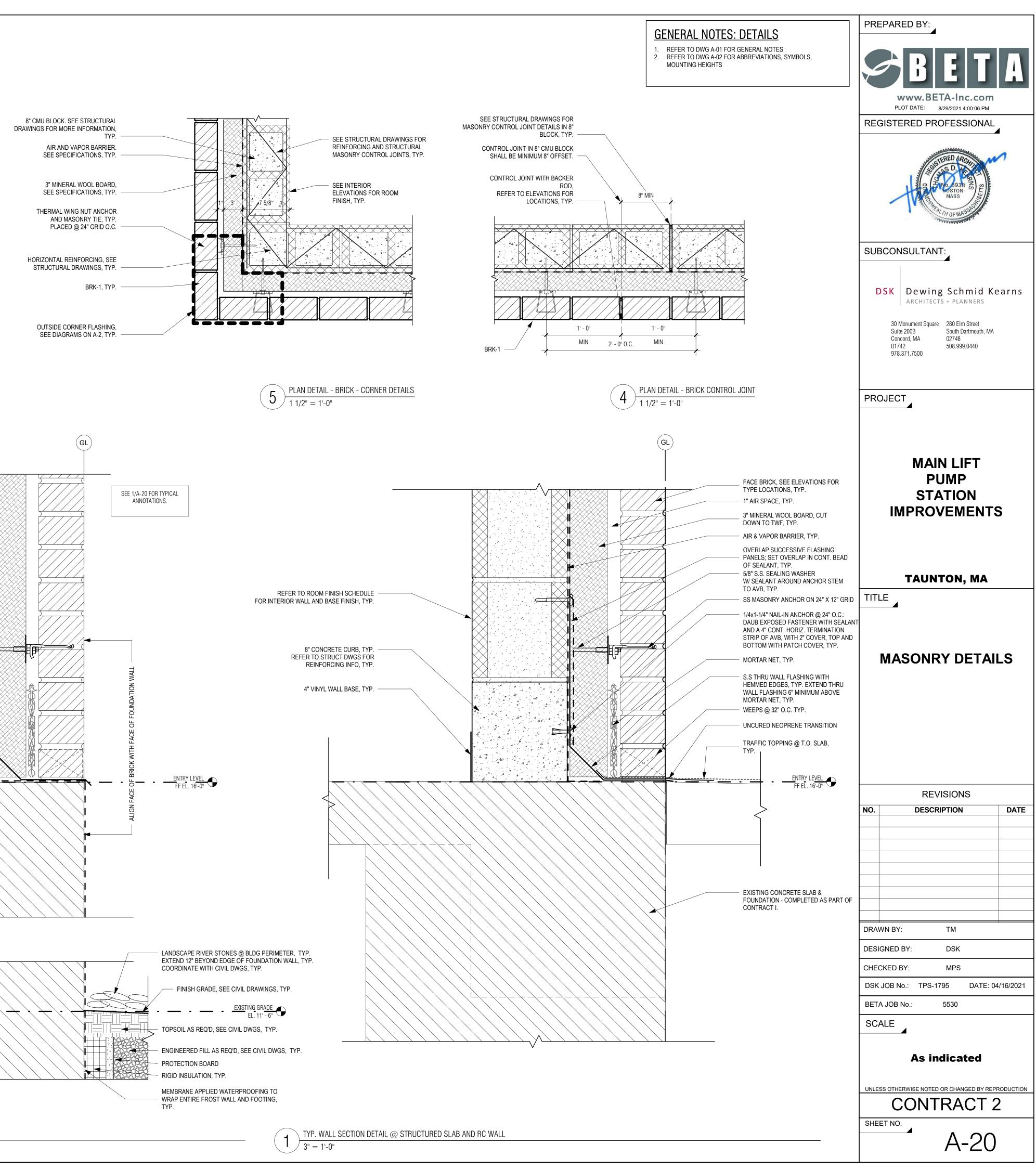


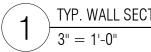


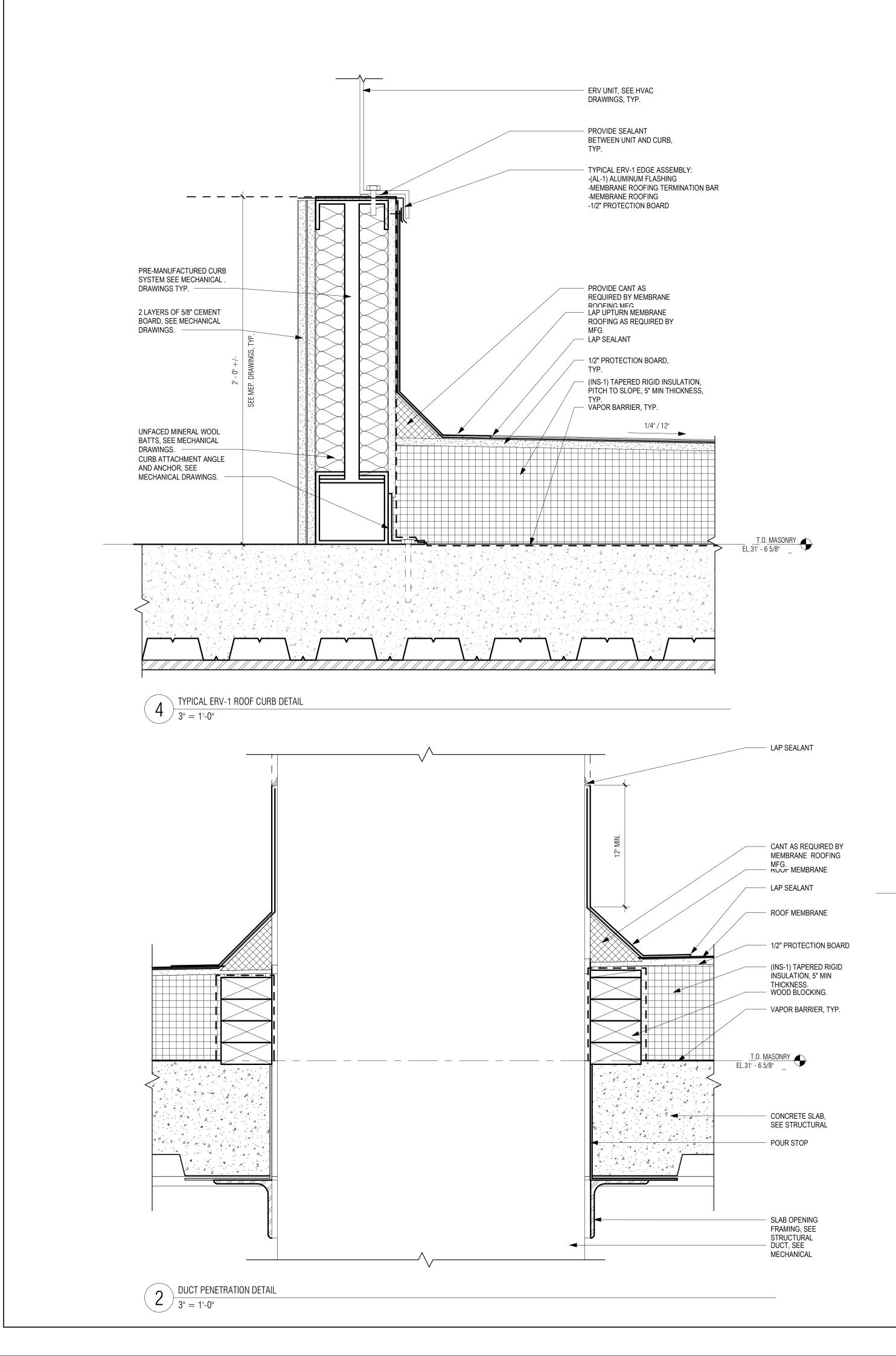


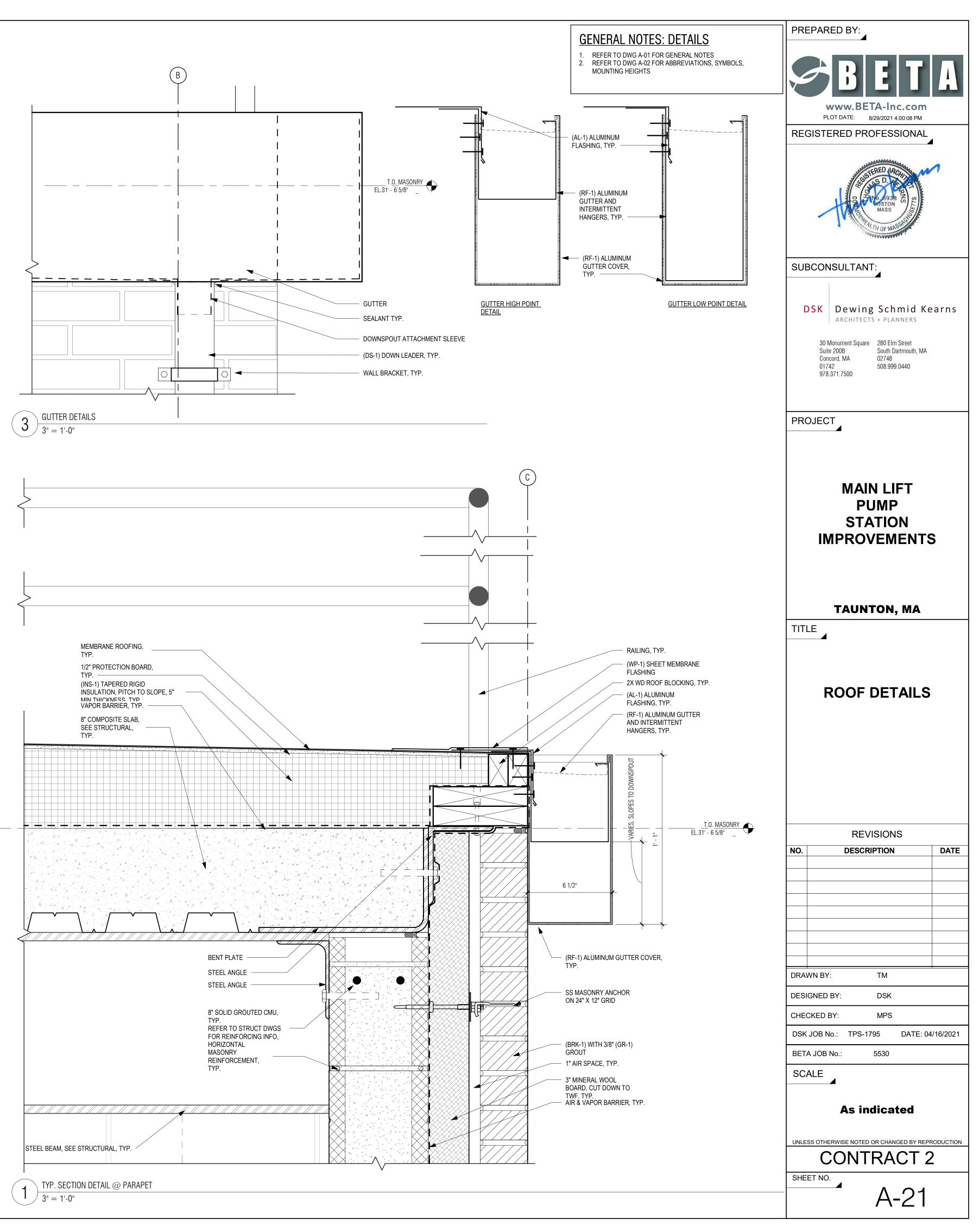


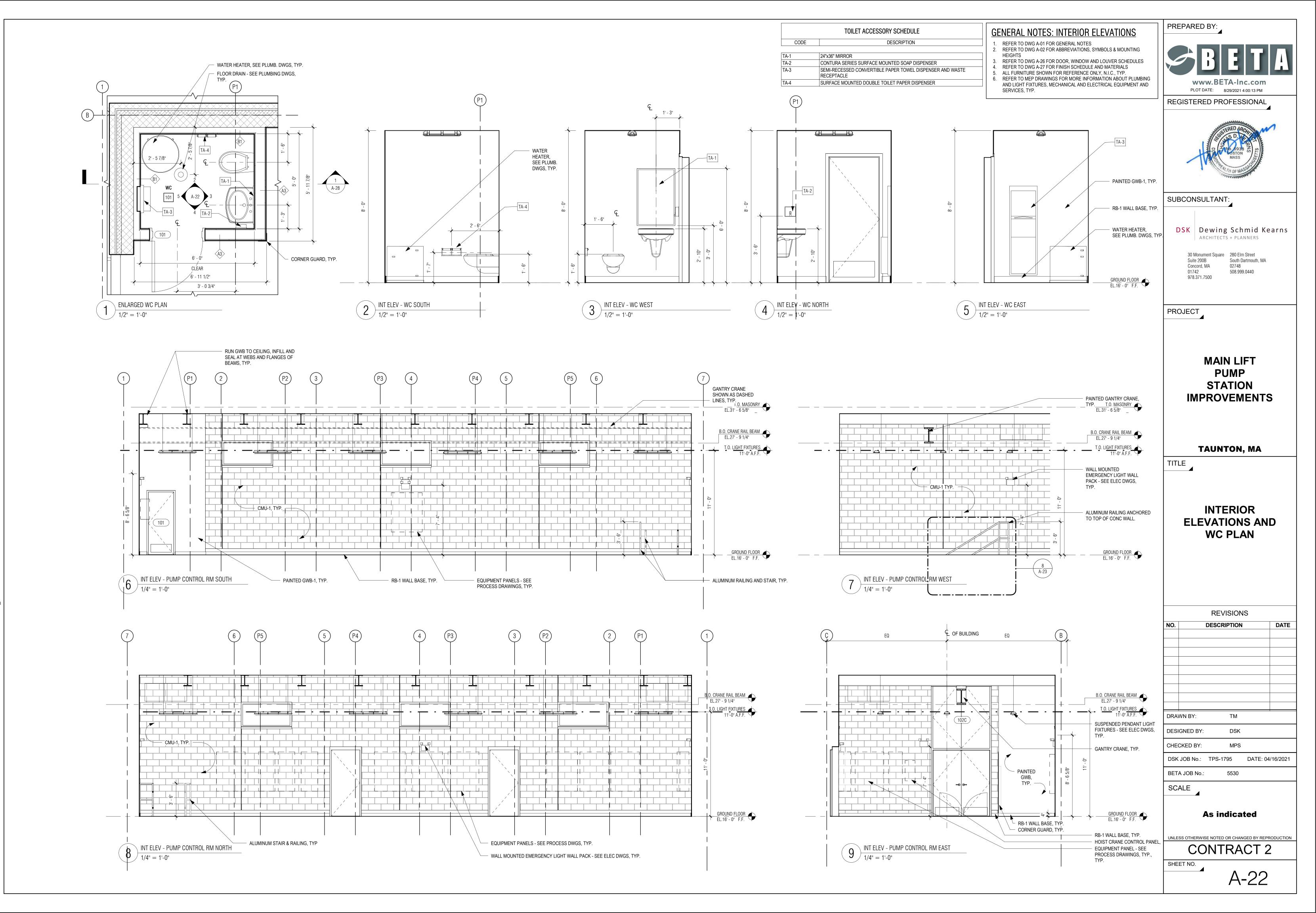


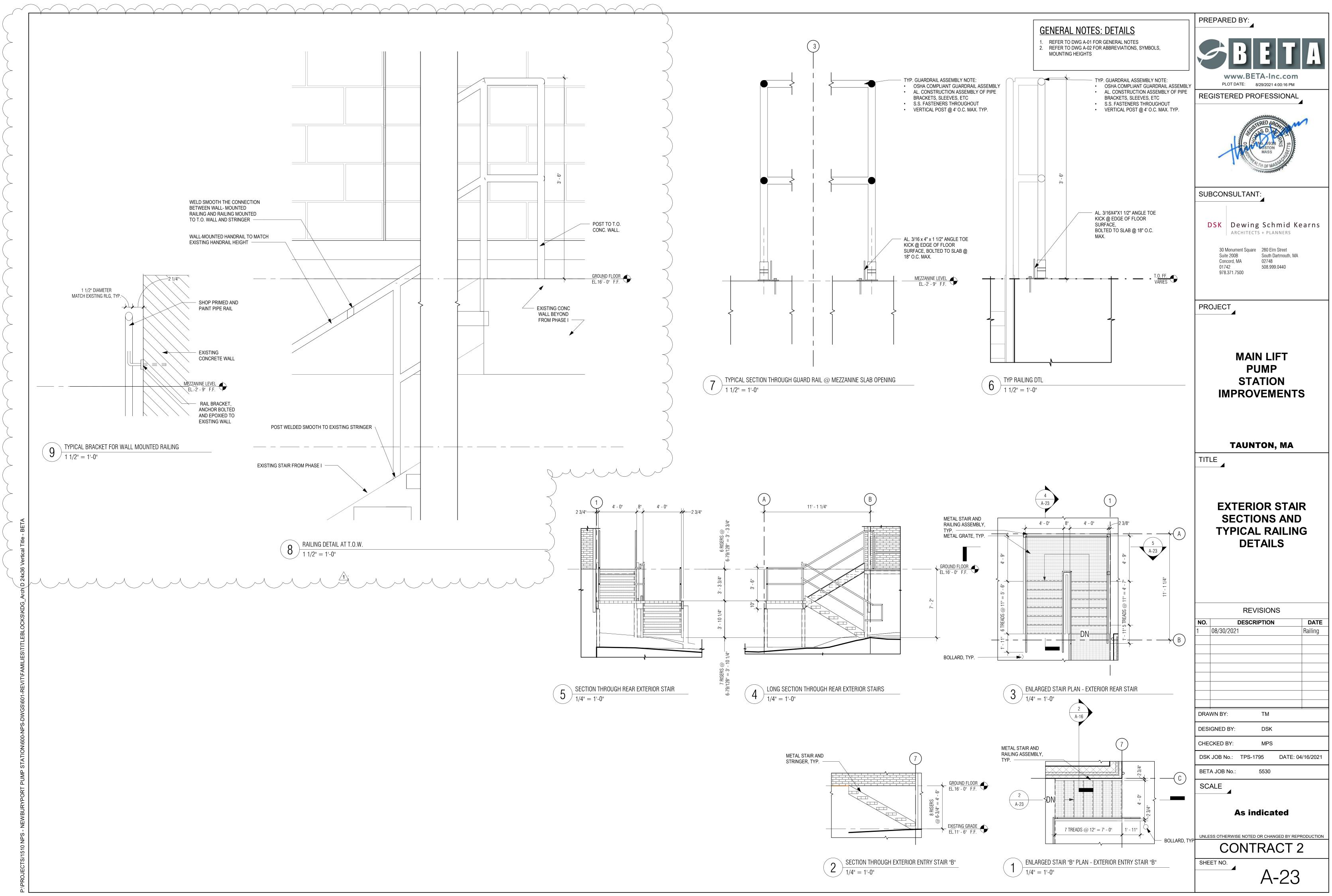




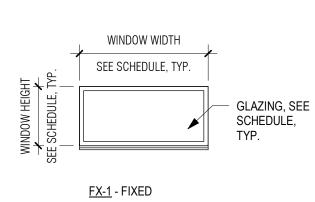








WINDOW TYPE



ARE SCHEDULE		DOOR SCHEDULE																
0-1 ENTRANCE LEVER SET				LOCATION					DOOR					FRAME	1E			
1 1/2 BUTTS BULB WEATHER STRIPPING ALL AROUND				1		PANEL SIZE		PANEL			i							
BOTTOM SWEEP MOP PLATE INTERIOR SIDE ONLY	DOOR NUMBEI	DOOR TYP	ROOM PE NUMBER		INT/EXT	WIDTH	HEIGHT	THICKNESS	TOTAL PANEL COUNT	MAT'L		GLAZING TYPE	FRAME TYPE	THRESHOLD TYPE	GASKET I	FIRE RATING H	HARDWARE	NOTES
OVERHEAD CLOSER SILENCER	GROUND 101	FLOOR FL	101	WC	INT	2' - 8"	6' - 8"	0' - 1 3/4"	1	STEEL		N/A	В		Yes		D-5	
SILENCER 3A MULTI- SET LOWER DOORS	101 102A	FL FL	101 102	WC PUMP CONTROL	INT EXT	2' - 8" 3' - 0"	6' - 8" 7' - 0"	0' - 1 3/4" 0' - 1 3/4"	1	STEEL STEEL		N/A N/A	B A		Yes Yes	HC HC		
3 BUTTS				ROOM														
BULB WEATHER STRIPPING ALL AROUND STORE ROOM FUNCTION LEVER SET ON ACTIVE LEAF	102B	FL	102	PUMP CONTROL ROOM	EXT	3' - 0"	7' - 0"	0' - 1 3/4"	1	STEEL		N/A	A		Yes	HC	D-1	
DUMMY LEVER SET ON INACTIVE LEAF BOTTOM SURFACE FLUSH BOLTS ON INACTIVE LEAF TOP SURFACE FLUSH BOLTS ON INACTIVE LEAF WITH LONG THROW	102C	FL	102	PUMP CONTROL ROOM	EXT	3' - 0"	7' - 0"	0' - 1 3/4"	4	STEEL		N/A	С		Yes	HC	D-3A/3B	

SILENCER HD-7 MANUFACTURERS HARDWARE WITH TAMPER PROOF KEY SET FULLY WATERPROOF GASKET SEAL ALL AROUND

HD-8 MANUFACTURERS HARDWARE

NOTES:

ALL HARDWARE SATIN SS FINISH PROVIDE KEYBOX IN OFFICE

ASTRAGAL SILENCER

3 BUTTS

ASTRAGAL

HD-5 PRIVACY LEVER SET

WALL STOP

1 1/2 BUTTS MOP PLATE BOTH SIDES OVERHEAD CLOSER

HD-3B MULTI- SET UPPER DOORS PAIR HAS NO LEVER SET

BULB WEATHER STRIPPING ALL AROUND

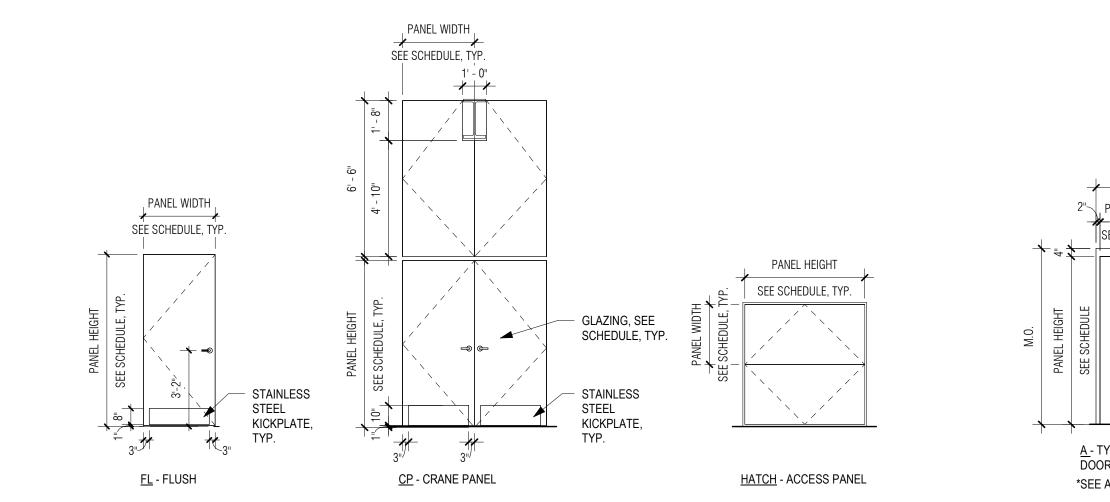
BOTTOM SURFACE FLUSH BOLTS ON BOTH LEAFS PAIR OF WALL STOPS WITH HOOK AND EYE

BRUSH WEATHERSTRIPPING AROUND BEAM OPENING SEE DOOR DETAIL SHEETS FOR NEOPRENE GASKET INFO

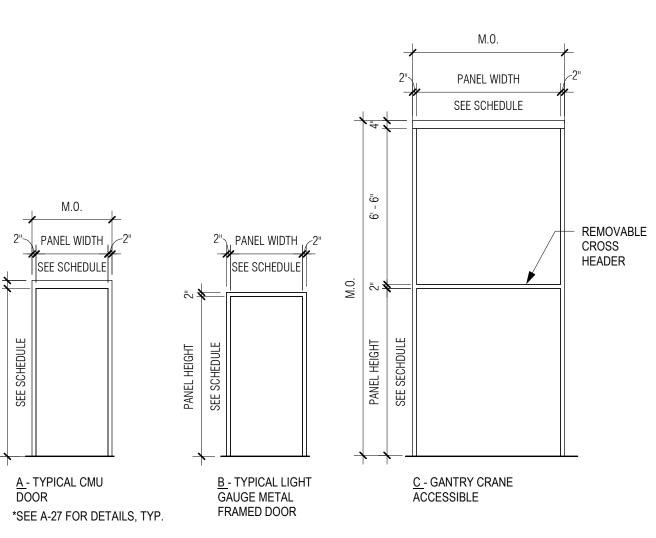
ALL EXTERIOR DOORS TO BE INSULATED PROVIDE SWEEPS AT ALL EXTERIOR DOORS

PROVIDE SS DRIP CAP AT ALL EXTERIOR DOORS

							WIN	IDOW SC	HEDULE												
										LOCATION	WI	NDOW	FRAME	MATERIAL		F	INISH				
WINDOW NUMBER	WINDOW	ROOM NUMBER	ROOM NAME	WIND WIDTH M.O.	OOW SIZE HEIGHT M.O.	EXT	INT	GLAZING	EXT	INT	SILL TYPE	HEAD TYPE	JAMB TYPE	NOTES							
GROUND F		100		5' - 4"		AL 1					2/4 07	4/4 07	E(A 07								
102A	FX-1	102	PUMP CONTROL ROOM	5 - 4	2' - 8"	AL-1	AL-1	GLX-1	PT-2	PT-2	3/A-27	4/A-27	5/A-27								
102B	FX-1	102	PUMP CONTROL ROOM	5' - 4"	2' - 8"	AL-1	AL-1	GLX-1	PT-2	PT-2	3/A-27	4/A-27	5/A-27								
102C	FX-1	102	PUMP CONTROL ROOM	5' - 4"	2' - 8"	AL-1	AL-1	GLX-1	PT-2	PT-2	3/A-27	4/A-27	5/A-27								
102D	FX-1	102	PUMP CONTROL ROOM	5' - 4"	2' - 8"	AL-1	AL-1	GLX-1	PT-2	PT-2	3/A-27	4/A-27	5/A-27								
102E	FX-1	102	PUMP CONTROL ROOM	5' - 4"	2' - 8"	AL-1	AL-1	GLX-1	PT-2	PT-2	3/A-27	4/A-27	5/A-27								
102F	FX-1	102	PUMP CONTROL ROOM	5' - 4"	2' - 8"	AL-1	AL-1	GLX-1	PT-2	PT-2	3/A-27	4/A-27	5/A-27								



DOOR TYPES



www.BETA-Inc.com PLOT DATE: 8/29/2021 4:00:17 PM REGISTERED PROFESSIONAL SUBCONSULTANT: DSK Dewing Schmid Kearns ARCHITECTS + PLANNERS 30 Monument Square 280 Elm Street Suite 200B South Dartmouth, MA Concord, MA 02748 01742 978.371.7500 508.999.0440 PROJECT MAIN LIFT PUMP STATION **IMPROVEMENTS** TAUNTON, MA TITLE DOOR AND WINDOW SCHEDULES REVISIONS DESCRIPTION DATE NO. DRAWN BY: ТМ DSK DESIGNED BY: MPS CHECKED BY: DSK JOB No.: TPS-1795 DATE: 04/16/2021 BETA JOB No.: 5530 SCALE As indicated UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION CONTRACT 2

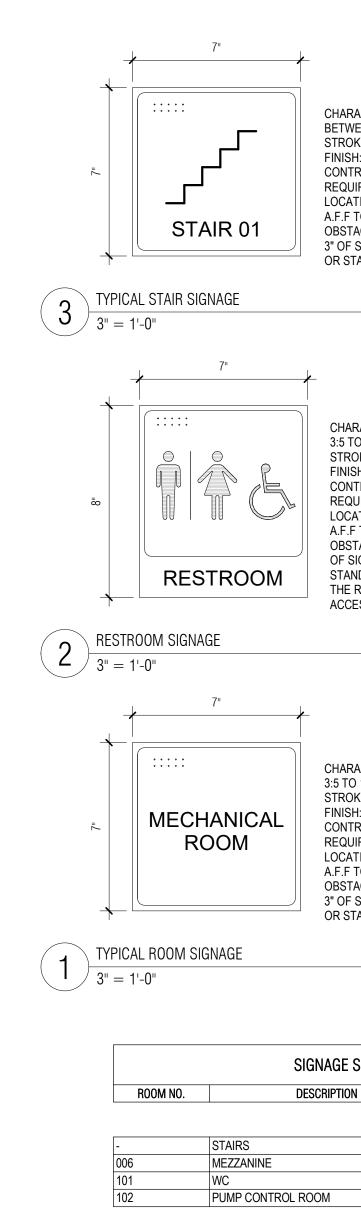
SHEET NO.

A-24

PREPARED BY:

DOOR FRAME TYPES





EXTERIOR

Grand total: 6

+	-					MATERIAL FINISH LE	GEND
		CODE	PRODUCT NAME / TYPE	LOCATION	IMAGE	SIZE (HxWxD)	
	CHARACTER PROPORTIONS WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 TO 1:1						
	STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10	04210 : CLAY UNIT					
	FINISH: ADAAG 4.30.5: NON-GLARE CONTRAST: LIGHT ON DARK REQUIREMENTS: RAISED LETTERS AND BRAILLE	BRK-1	BRICK - FACE BRICK	EXTERIOR WALLS		2.25x7.625x3.5	FULL
	LOCATION: ON WALL ADJACENT TO LATCH SIDE OF DOOR, 60" A.F.F TO SIGN CENTERLINE.	GR-1	GROUT	USED WITH BRK-1		3/8" JOINTS	WHI
	OBSTACLES: A PERSON MUST BE ABLE TO APPROACH WITHIN 3" OF SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS	04222 : STRUCTUR					
	OR STANDING (SITTING) WITHIN SWING OF DOOR	CMU-1 - Structural C	MU CMU - STRUCTURAL	SEE DRAWINGS		8x16x8 NOMINAL CONCRETE BLOCKS	
		05500 : METAL FAB	RICATION				
		GRT-1	ALUMINUM GRATING	EXTERIOR STAIRS AND LANDING			
I	L	05500 : METAL FAB				_	
		AL-1		STAIRS, RAILINGS AND HATCHES			
	CHARACTER PROPORTIONS WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 TO 1:1	06100 : ROUGH CA	RPENTRY				
	STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10 FINISH: ADAAG 4.30.5: NON-GLARE	PLY	PLYWOOD PANELING	AT ALL WALL-MOUNTED ELEC. PANELS		3/4" THICK	
Ь	CONTRAST: LIGHT ON DARK REQUIREMENTS: RAISED LETTERS AND BRAILLE	07130 : SELF-ADHE	RING SHEET WATERPROOFING				
	LOCATION: ON WALL ADJACENT TO LATCH SIDE OF DOOR, 60" A.F.F TO SIGN CENTERLINE.	WP-1	SHEET WATERPROOFING	SEE SPECS			
	OBSTACLES: A PERSON MUST BE ABLE TO APPROACH WITHIN 3" OF SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR	WP-2	LIQUID APPLIED WATERPROOFING	WET WELL, INTERIOR CONC. SURFACES			
	STANDING (SITTING) WITHIN SWING OF DOOR THE RESTROOM SHALL USE THE INTERNATIONAL SYMBOL OF	07610 : SHEET MET	AL ROOFING				
	ACCESSIBILITY	DS-1	DOWNSPOUT TO MATCH RF-1				
		RF-1	ALUMINUM GUTTER			SEE DRAWINGS	CLE
		08800 : GLAZING					
		GLX-1	1" IGU - VISION GLASS	WINDOWS		SEE DOOR AND WINDOW SCHEDULE	TRAI
1	-						
		09211 : GYPSUM BO	1				
	CHARACTER PROPORTIONS WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 TO 1:1 STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10	GWB-1	GYPSUM WALL BOARD			SEE DETAILS	
	FINISH: ADAAG 4.30.5: NON-GLARE		WALL BASE AND ACCESSORIES				0114
	CONTRAST: LIGHT ON DARK REQUIREMENTS: RAISED LETTERS AND BRAILLE	RB-1	RESILIENT BASE - COLOR "A"	AT ALL GWB-1 WALLS		4" HEIGHT	CHA
	LOCATION: ON WALL ADJACENT TO LATCH SIDE OF DOOR, 60" A.F.F TO SIGN CENTERLINE.	09671 : RESINOUS	FLOORING				
	OBSTACLES: A PERSON MUST BE ABLE TO APPROACH WITHIN	SL-1	SEALER - CONCRETE				
ノ	3" OF SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING (SITTING) WITHIN SWING OF DOOR	09900 : PAINTING A					I
							SIME

SIGNAGE SCHEDULE

DESCRIPTION	QUANTITY
STAIRS	3
MEZZANINE	1
WC	1
PUMP CONTROL ROOM	1
BUILDING STREET ADDRESS	1
BUILDING DEDICATION PLAQUE (BRONZE)	1
	STAIRS MEZZANINE WC PUMP CONTROL ROOM BUILDING STREET ADDRESS

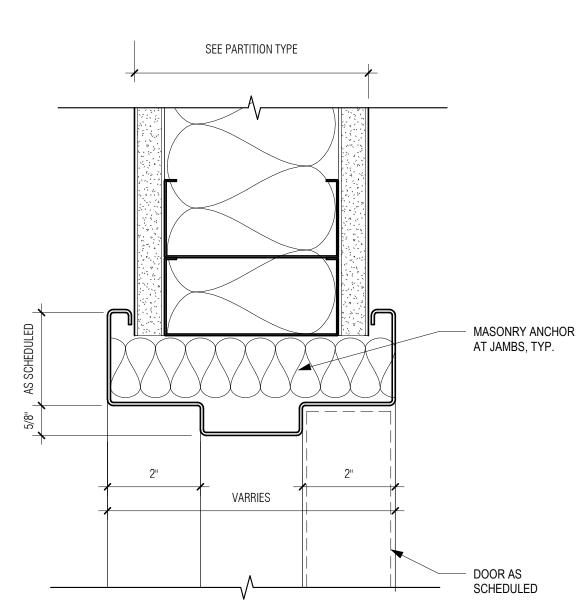
RB-1	RESILIENT BASE - COLOR "A"	AT ALL GWB-1 WALLS	4" HEIGHT	CHARCOA
09671 : RESINO	US FLOORING	1		
SL-1	SEALER - CONCRETE			
09900 : PAINTIN	IG AND COATING			
PT-1A	PAINT - ALL GWB-1 WALLS			SIMPLY W
PT-1B	PAINT - ALL EXPOSED STRUCTURE (DRY-FALL)			WHITE
PT-2	PAINT - DOORS AND WINDOWS AND FRAMES			ARCH. TO
PT-3	PAINT - BOLLARDS			SAFETY Y
PT-4	LIQUID APPLIED PROTECTIVE COATING	EXT VERTICAL	WATER DISPERSED, ACRYLIC, PROTECTIVE,	ARCH. TO
F1-4		CONCRETE WALLS	ANTI-CARBONATION COATING	ARCH. TO
12481 : ENTRAM	NCE FLOOR MATS			
CPT-1	CARPET WALK-OFF MAT	ENTRY DOORS		CHARCOA

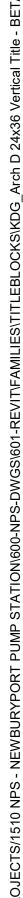
NOTE: SEE SPECIFICATIONS FOR MORE DETAILS, TYP.

			R	OOM FINISH SC	HEDULE
Level	ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH
PUMP LEVEL					
PUMP LEVEL	005	WET WELL 4	NA	N/A	N/A
MEZZANINE LEVEL					
MEZZANINE LEVEL	006	MEZZANINE	SL-1	N/A	N/A
GROUND FLOOR					
GROUND FLOOR	101	WC	SL-1	RB-1	PT-1A
GROUND FLOOR	102	PUMP CONTROL ROOM	SL-1	RB-1	PT-1A
GROUND FLOOR	103	EXTERIOR ENTRY PLATFORM	SL-1	N/A	N/A
PUMP LEVEL					
PUMP LEVEL	001	PUMP ROOM	SL-1	N/A	N/A
PUMP LEVEL	002	WET WELL 1	WP-2	N/A	WP-2
PUMP LEVEL	003	WET WELL 3	WP-2	N/A	WP-2
PUMP LEVEL	004	WET WELL 2	WP-2	N/A	WP-2
PUMP LEVEL	006	INFLUENT CHAMBER	WP-2	N/A	WP-2

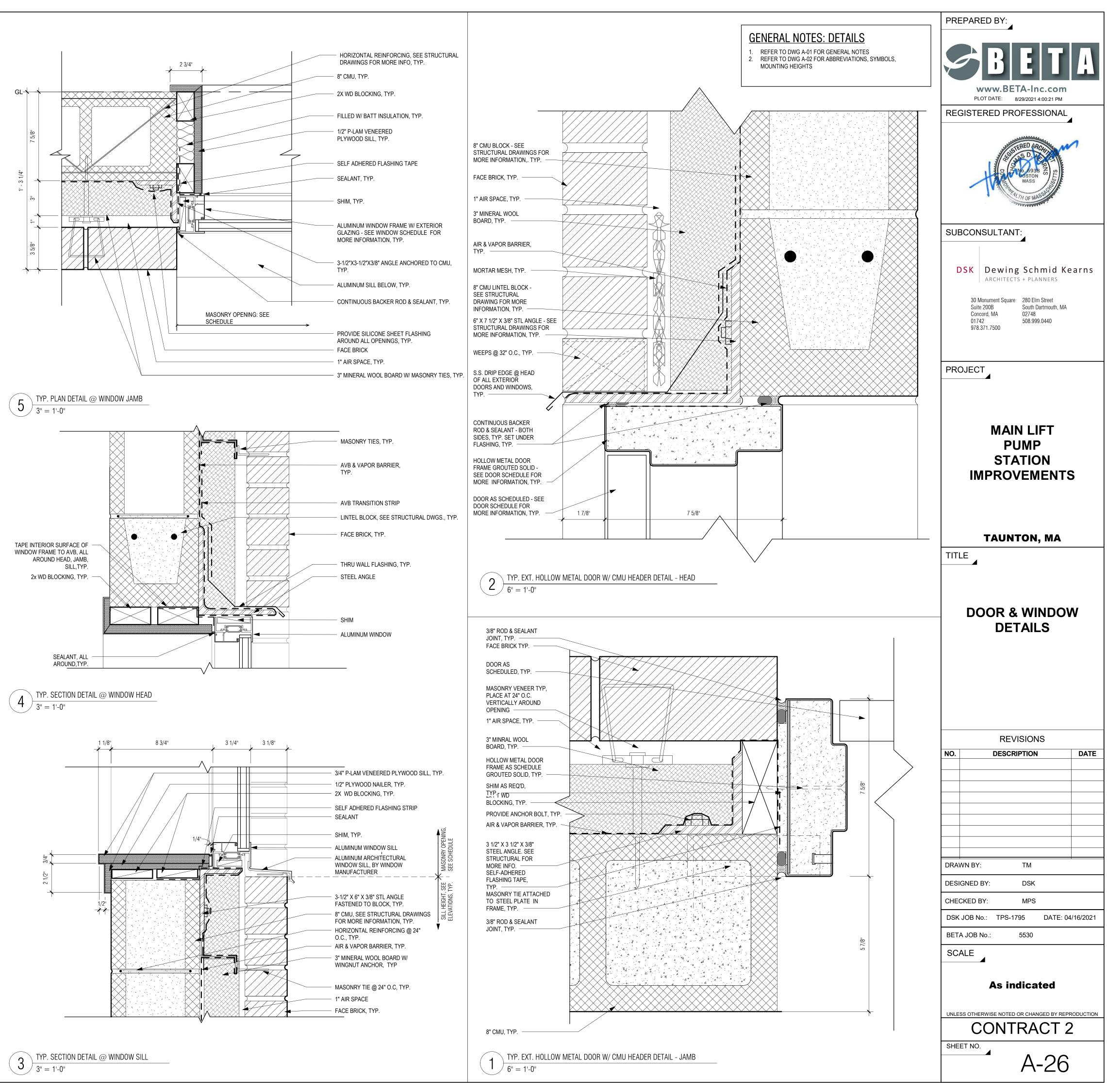
						PREPARED BY:
Gend						
	COLOR	PATTERN	TEXTURE / FINISH	MANUFACTURER	NOTES	B E T A
	FULL RANGE DANISH	RUNNING BOND	SAND	STILES AND HART	1	www.BETA-Inc.com
			MOLDED FACE BRICK			PLOT DATE: 8/29/2021 4:00:20 PM
	WHITE		BRICK			REGISTERED PROFESSIONAL
				JANDRIS		TERED ARCI
	Ι	1		1	1	A SAN D LE ST
						COSTON MASS
						THITH OF MASSING
						SUBCONSULTANT:
						DSK Dewing Schmid Kearns
						ARCHITECTS + PLANNERS
						30 Monument Square 280 Elm Street Suite 200B South Dartmouth, MA
	CLEAR ANODIZED					Concord, MA 02748 01742 508.999.0440 978.371.7500
	TRANSLUCENT	TRANSLUCENT GLAZING, PATTERN TC)		EXTERIOR PANE TO BE LAMINATED	
		BE APPROVED BY ARCHITECT				PROJECT
			1		·	
	CHARCOAL 20	TRADITIONAL TOELESS		JOHNSONITE		MAIN LIFT
						PUMP
		1	5000050			STATION
	SIMPLY WHITE OC-117 WHITE		EGGSHELL	BEN MOORE		IMPROVEMENTS
	ARCH. TO COMFIRM					
	SAFETY YELLOW					
,	ARCH. TO CONFIRM		670W, OR EQUAL	SIKA	usa.sika.com	TAUNTON, MA
		1				TITLE
	CHARCOAL	BERBER - RB		MATS INC		
						SIGNAGE, ACCESSORIES AND FINISH SCHEDULES
ULE						
NOF	WALL FINISH RTH EAST SOUTH	WEST	CEILINO	G FINISH		REVISIONS
						NO.DESCRIPTIONDATE
A	N/A N/A	N/A				
A	N/A N/A	N/A	N/A			
-1A -1A	PT-1A PT-1A PT-1A PT-1A	PT-1A PT-1A	PT-1A EXPOSED S			
-1A A	N/A N/A	N/A	N/A			
Δ		NI/A	N//A			
A P-2 P-2	N/A N/A WP-2 WP-2 WP-2 WP-2	N/A WP-2 WP-2	N/A WP-2 WP-2			DRAWN BY: TM
P-2 P-2	WP-2 WP-2 WP-2 WP-2	WP-2 WP-2	WP-2 WP-2			DESIGNED BY: DSK
						CHECKED BY: MPS DSK JOB No.: TPS-1795 DATE: 04/16/2021
						BETA JOB No.: 5530
						SCALE
						3" = 1'-0"
						UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION
						CONTRACT 2
						SHEET NO.
						A-25

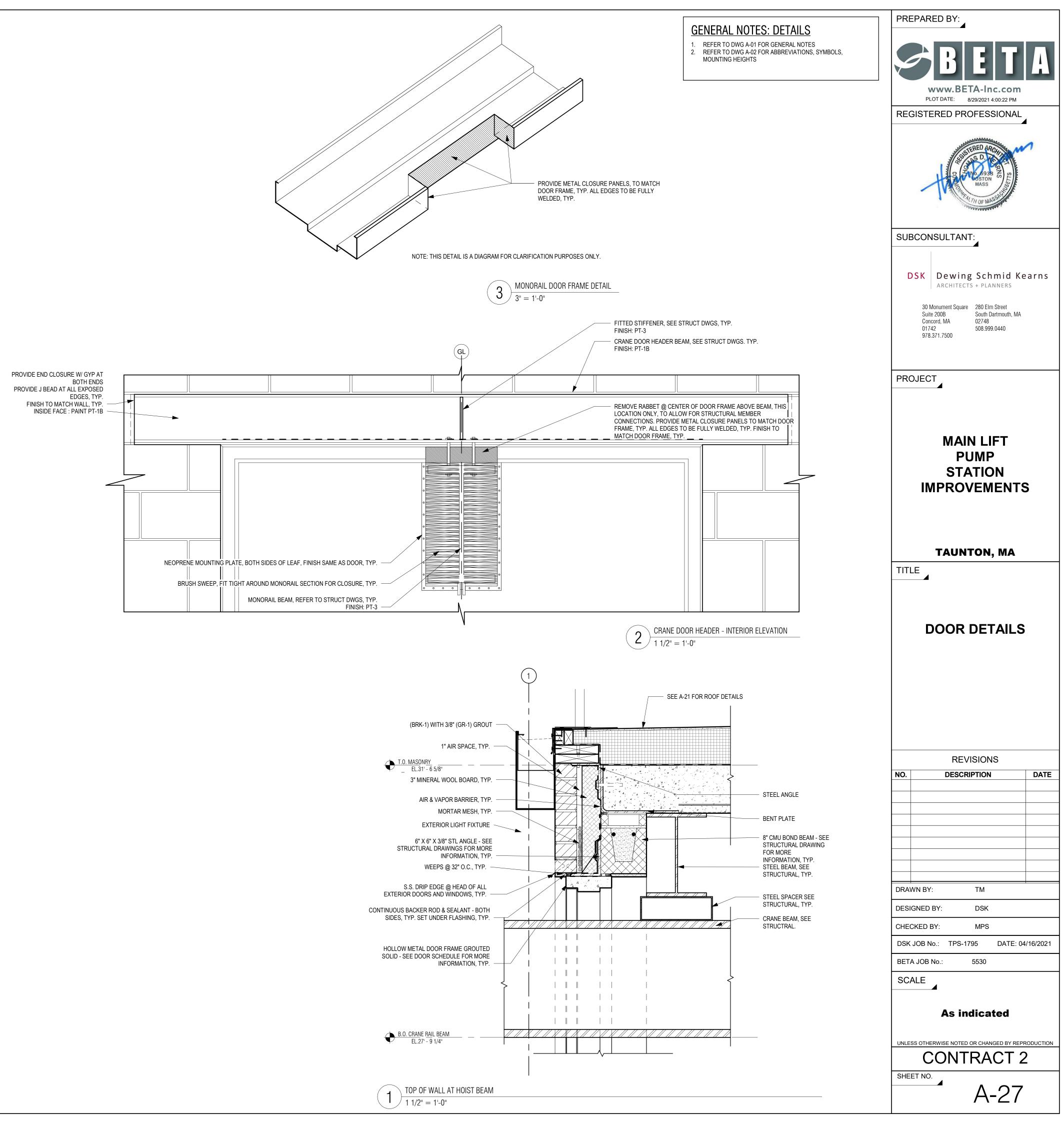


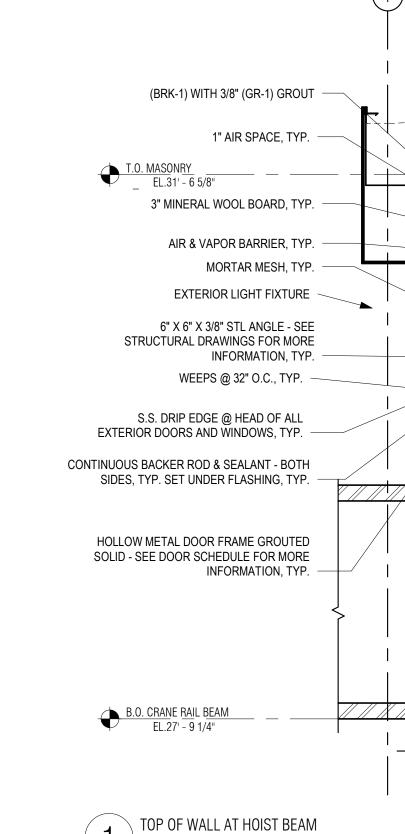




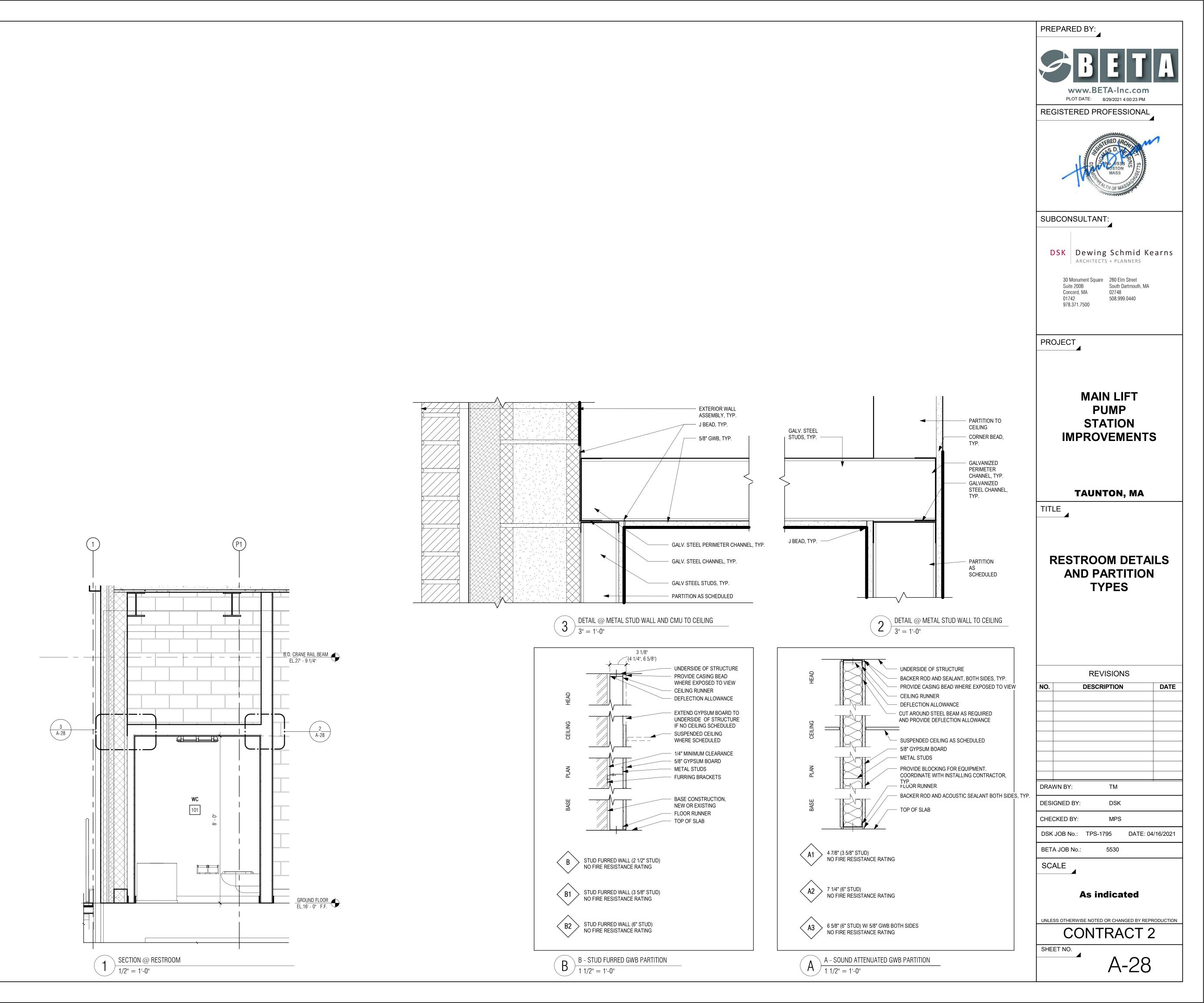








PROJECTS/1510 NPS - NEWBURYPORT PUMP STATION/600-NPS-DWGS/601-REVIT/FAMILIES/TITLEBLOCKS/KDG_Arch D 24x36 Vertical Title - BETA



G	ENERAL STRUCTURAL NOTES:		FOUNDATIONS:	
1.	STRUCTURAL WORK SHALL CONFORM TO COMMONWEALTH OF MASSACHUSETTS STA		1. ALL FOOTINGS AND BASE SLABS SHALL BEAR ON NATURALLY DEPOSITED SOILS FOR AN ALLOWABLE BEARING PRESSURE OF 4000 PSF IN ACCORDANCE WITH THE	-
2.	ASCE 7-10 AND ASCE 24 FOR FLOOD F	HAZARD AREAS.	GEOTECHNICAL REPORT DATED AUGUST 2017 BY PAUL B. ALDINGER & ASSOCIATES, INC.	-
	USED IN CONJUNCTION WITH THE DRAWIN	IGS.	2. SLABS ON GRADE SHALL BE PLACED ON 12 INCHES OF COMPACTED STRUCTURAL FILL.	-
3.	VERIFY EXISTING CONDITIONS AND DIMENS FABRICATING MATERIALS. NOTIFY THE ENG PROCEEDING WITH ANY PHASE OF WORK.	SINEER OF DISCREPANCIES BEFORE	3. SEE THE SPECIFICATIONS FOR ALL RELATED CONSTRUCTION REQUIREMENTS.	
4.	THE CONTRACTOR SHALL BE RESPONSIBL THE START OF ANY EXCAVATION OR SITE		4. ALL UNSUITABLE MATERIAL WITHIN FOUNDATIONS AND SLABS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.	
5.	DO NOT SCALE FROM THESE DRAWINGS.	REFER TO LABELED DIMENSIONS ONLY.	5. NO RESPONSIBILITY IS ASSUMED BY THE ENGINEER FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS PRESENTED WITHIN THE CONTRACT DOCUMENTS. SUBSURFACE INVESTIGATIONS REFLECT THE CONDITIONS AT THE TIME THEY WERE	
6.	DETAILS LABELED "TYPICAL DETAILS" ON OCCURRING ON THE PROJECT THAT ARE SPECIFICALLY DETAILED. SUCH DETAILS A	THE SAME OR SIMILAR TO THOSE	PERFORMED. SUPPLEMENTAL INVESTIGATIONS SHALL BE PERFORMED BY THE CONTRACTOR AS REQUIRED TO COMPLETE THE WORK.	
	REFERENCED AT EACH LOCATION. NOTIFY APPLICABILITY OF TYPICAL DETAILS.		6. FOUNDATIONS MAY BE ALTERED TO SUIT EXISTING CONDITIONS AS DIRECTED BY THE ENGINEER.	
7.	COORDINATE THE WORK OF THESE DRAWI AND QUANTITIES OF RELATED WORK ARE SHALL BE CONFIRMED.		7. PROVIDE TEMPORARY OR PERMANENT SUPPORTS AS REQUIRED TO PROTECT EXISTING AND NEWLY COMPLETED STRUCTURES AND UTILITIES.	
8.	DO NOT LOAD THE SLAB ON GRADE OR CRANES OR ERECTION EQUIPMENT. THE S		8. CARRY OUT CONTINUOUS CONTROL OF SURFACE AND SUBSURFACE WATER DURING CONSTRUCTION SUCH THAT FOUNDATION WORK IS DONE IN DRY AND ON UNDISTURBED SUB-GRADE MATERIAL.	3
	CRANE LOADS AND WILL REQUIRE AN INC REINFORCEMENT. CONTRACTOR SHALL OB PROPOSED CRANE SUPPORT PLAN FOR S	TAIN ENGINEER'S APPROVAL ON	9. ALL CONCRETE SURFACES SHALL BE FORMED. DO NOT FORM AGAINST EXCAVATIONS WITHOUT PRIOR APPROVAL FROM THE ENGINEER.	
9.	DO NOT STORE OR STACK CONSTRUCTION FLOORS/ROOFS IN EXCESS OF 80 PERCI	N MATERIALS ON POURED OR ERECTED ENT OF LIVE LOAD. GENERAL CONTRACTOR	10. NO FOUNDATION CONCRETE SHALL BE PLACED ON FROZEN SUB-GRADE MATERIAL	.•
	WILL ENSURE THAT ALL SUB-CONTRACTO		11. PLACE BACKFILL BEHIND WALLS ON BOTH SIDES SIMULTANEOUSLY.	
10	. THE CONTRACTOR SHALL SHORE, BRACE,		CONCRETE: 1. CONCRETE WORK SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR	
	SHORING DESIGN SHALL BE DESIGNED, E MAINTAINED BY THE CONTRACTOR TO SAF	ELY SUPPORT ALL DEAD LOADS CARRIED	STRUCTURAL CONCRETE (ACI 350) AND SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301).	
11	. NEW STRUCTURAL SYSTEMS SHALL BE CO		2. UNLESS NOTED OTHERWISE, CONCRETE SHALL BE AS FOLLOWS: MAX. WATER CEMENT RATI	
	SUPPORTING DESIGN LOADS BEFORE SHO RELEASED GRADUALLY.	DRES ARE REMOVED. SHORES SHALL BE	ROOF SLAB & COLUMNS:5000 P.S.I. (NORMAL WEIGHT)0.40HOUSEKEEPING:5000 P.S.I. (NORMAL WEIGHT)0.40	U
12	. THE CONTRACT STRUCTURAL DOCUMENTS THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION, PROVIDE ALL MEASURES	THE MEANS AND METHODS OF	SLAB–ON–GRADE: 4000 P.S.I. (NORMAL WEIGHT) 0.45 SUPPORT WALLS & GRATING SUPPORT COLUMNS: 4000 P.S.I. (NORMAL WEIGHT) 0.45	
	CONSTRUCTION. PROVIDE ALL MEASURES REQUIRED TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION, INCLUDING BRACING, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING, SHORING OF RETAINING		3. CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR ENTRAINED.	
	WALLS AND OTHER TEMPORARY SUPPORT APPLICABLE REQUIREMENTS OF OSHA AN JURISDICTION AT THE SITE.		4. PROVIDE VAPOR BARRIER UNDER INTERIOR SLABS CAST ON GRADE.	
	. BACKFILLING AND COMPACTING ADJACENT BE PERMITTED UNTIL ALL THE CONCRETE		5. CONSTRUCTION JOINTS SHOWN ON THE DRAWINGS ARE MANDATORY.	
(BTS.WB W.STB) 14	CAPACITY.	F BE PERMITTED FOR USE OF	6. SIZE OF CONCRETE PLACEMENTS, UNLESS NOTED OTHERWISE, SHALL CONFORM TO ACI GUIDELINES AND RECOMMENDATIONS.	C
	BACKFILLING BETWEEN EXCAVATION SUPPORTS SHALL CONSIST OF A CLEAN GRAVEL (SE		REINFORCEMENT:	
530_SR1.DWG (BETA			 REINFORCEMENT SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 350), ACI DETAILING MANUAL (SP-66), CRSI MANUAL OF STANDARD PRACTICE (MSP), AND THE STRUCTURAL WELDING CODE-REINFORCING STEEL (AWS D1). 	L
	<u>ESIGN LOADS:</u> /e loads:		2. STEEL REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60.	
AL\PHASE	ROOF SLAB (GROUND LEVEL) SLAB (MEZZANINE LEVEL)	20 P.S.F. 250 P.S.F. 250 P.S.F.	 WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. PROVIDE SUPPLEMENTAL BARS AND ACCESSORIES AS REQUIRED TO HOLD 	
AS SUCTUR	IOW LOADS: GROUND SNOW LOAD (Pg)	30.0 P.S.F.	REINFORCEMENT SECURELY IN POSITION.	c
IW WI	FLAT ROOF SNOW LOAD (Pf) ND LOADS: BASIC WIND SPEED	23.1 P.S.F. 140 MPH	5. MINIMUM CONCRETE PROTECTIVE COVER, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:	2
AD\DRAWINGFILES\STRUCTURAL\PHASE	RISK CATEGORY WIND EXPOSURE CATEGORY ISMIC:	CATEGORY III CATEGORY III	FOOTINGS & BASE SLAB – BOTTOMS: 3 INCHES FOOTINGS & BASE SLAB – SIDES AND TOPS: 2 INCHES WALLS: 2 INCHES	
	IMPORTANCE FACTOR (Ie) DESIGN FACTOR Ss	1.25 (CATEGORY III) 0.182	SLABS ON GRADE: 1 INCH TOP/ $1\frac{1}{2}$ " BOTTOM 6. ALL CONTINUOUS REINFORCEMENT SHALL BE EXTENDED AROUND CORNERS AND	
STATION/AUTOC	DESIGN FACTOR S1 SITE CLASSIFICATION SPECTRAL RESPONSE SDs	0.062 D 0.194	LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS.	
IP STATI	SPECTRAL RESPONSE SD1 SEISMIC DESIGN CATEGORY	0.099 B	 LAPS SHALL BE CLASS B TENSION LAP SPLICES, UNLESS NOTED OTHERWISE. REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS. 	
LIFT PUN			9. COLUMN DOWELS SHALL BE SET WITH A TEMPLATE AND POSITIONED SO AS TO B ENCLOSED BY THE COLUMN TIES.	E
J:\TAUNTON\MAIN LIFT PUMP			10. WELDED WIRE FABRIC SHALL LAP 8" OR 1-1/2 SPACES, WHICHEVER IS LARGER, AND SHALL BE WIRED TOGETHER.	
:\TAUNT(
/2020 3:42 PM				

STRUCTURAL STEEL:

- 1. WORK SHALL CONFORM TO SPECIFICATION FOR STRUCTURA CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND STRUCTURAL WELDING CODE.
- 2. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE W STEEL CONSTRUCTION" (AISC) AND, WHERE REQUIRED, DESI WITH THE CITED REFERENCES.
- 3. STRUCTURAL STEEL SHALL BE NEW STEEL CONFORMING TO UNLESS NOTED OTHERWISE: ASTM A992 GRADE 50 ASTM A36 (FY = 36CHANNELS, ANGLES, PLATES: HOLLOW STRUCTURAL SECTIONS: ASTM A500 GRADE B ANCHOR BOLTS: ASTM F1554 HIGH STRENGTH BOLTS: ASTM A325
- 4. BOLTED CONNECTIONS SHALL BE MADE WITH A325-N HIGH DIAMETER AS SHOWN IN RESPECTIVE DETAILS.
- 5. WELDED CONNECTIONS SHALL BE MADE BY APPROVED CER FILLER METAL CONFORMING TO E70XX.
- 6. PROVIDE STIFFENERS WHERE SHOWN ON DRAWINGS.
- 7. PROVIDE TEMPORARY ERECTION BRACING AND SUPPORTS 1 STEEL FRAMING SECURELY IN POSITION. SUCH TEMPORARY SUPPORTS SHALL NOT BE REMOVED UNTIL PERMANENT BR INSTALLED AND CONCRETE FOR FLOOR SLABS HAS ATTAINE CONCRETE STRENGTH.
- 8. FIELD CUTTING OF STRUCTURAL STEEL OR ANY FIELD MODI STRUCTURAL STEEL SHALL NOT BE MADE WITHOUT PRIOR
- 9. STRUCTURAL STEEL ENCASED IN MASONRY OR CONCRETE WITH MASTIC.
- 10. STRUCTURAL STEEL MEMBERS AND CONNECTIONS EXPOSED SHALL BE HOT-DIPPED GALVANIZED.

AL STEEL BUILDINGS, BRIDGES, AND THE	
WITH "DETAILING FOR SIGNED IN ACCORDANCE	
D THE FOLLOWING: 50 (FY = 50 K.S.I.) K.S.I.) 8 (FY = 40 K.S.I.)	
H STRENGTH BOLTS,	
RTIFIED WELDERS USING	
TO HOLD STRUCTURAL ' BRACING AND RACING HAS BEEN ED 75% OF SPECIFIED	
OFICATIONS OF WRITTEN APPROVAL.	
SHALL BE COVERED	

PREPARED BY					
SBET www.BETA-Inc.com	A				
REGISTERED PROFESSIONAL	1				
SUBCONSULTANT					
TODD M. WARZECKI TOCU No. REGISTERED PROFESSIONAL ENGINEER CIVIL					
PROJECT					
Main Lift					
Pump Station					
Taunton, MA					
TITLE					
STRUCTURAL NOTES (1 OF 2)					
NO. REVISIONS	DATE				
DRAWN BY: BWN					
DESIGNED BY: TMW					
CHECKED BY: CWJ					
ISSUE DATE: JULY 2020					
BETA JOB NO.: 5530					
SCALE					
NONE					
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODU	CTION				
SHEET NO. S-1					

<u>Sl</u>	JBMITTALS, TESTING, AND INSPECTIONS:	<u>LIST (</u>	DF A	7
1.	SUBMITTALS AND TESTING SHALL BE AS REQUIRED BY THE MASSACHUSETTS STATE BUILDING CODE AND THESE FOLLOWING REQUIREMENTS.	ADD'L	— A — A	١
2.	THE CONTRACTOR SHALL PROVIDE FOR AN INDEPENDENT TESTING AGENCY TO PERFORM REQUIRED TESTING.	APPROX. BRG. B.O.	— E — E	3
3.	THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE TESTING AGENCY AND THE ENGINEERS OF RECORD ACCORDINGLY.	C-C © C.I.P.	- C - C - C	、ノ、ノ
4.	NOTIFY THE GEOTECHNICAL ENGINEER OF RECORD PRIOR TO FOUNDATION EXCAVATION.	CONC. CONST. CONT.	- C - C - C	、ノ、ノ
5.	NOTIFY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FIRST CONCRETE PLACEMENT.	C.Y. d DET.	- C - D - D))
6.	SUBMITTALS INCLUDE BUT NOT LIMITED TO: DEWATERING BORROW MATERIAL CONCRETE MIX DESIGN STEEL REINFORCING ACCESSORIES STRUCTURAL STEEL/COLD FORMED METAL CONCRETE MASONRY UNITS MORTAR AND GROUT STEEL JOIST & METAL DECKING	DTL. DIA. DWG. EA. EL. ELEV. EMBED. E.F. E.S. E.W. EXIST. EXP.	- C - C - C - E - E - E - E - E	
7.	TESTS/INSPECTIONS INCLUDES BUT NOT LIMITED TO: EARTHWORK CONCRETE STRENGTH REINFORCING STEEL INSTALLATION CONCRETE PLACEMENT AND CURING STEEL BOLTING MASONRY MATERIAL INSTALLATION	FIN. F.O. FT. FTG. GA. GALV. GC	- F - F - F - G - G - G	
8.	THE CONTRACTOR SHALL KEEP COMPLETE AND ORGANIZED RECORDS OF ALL TESTS AND INSPECTIONS AND PROVIDE THEM TO THE ENGINEER SO THAT THE FINAL AFFIDAVIT CAN BE PREPARED. A BINDER SHALL BE MAINTAINED AT THE JOBSITE AT ALL TIMES FOR THE ENGINEER'S INSPECTION.	h HORIZ. H.A. I.F. IN. I.D.	+ + + 11 11	
9.	THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN ADVANCE, BEFORE CONCEALING ANY WORK THAT WILL REQUIRE OBSERVATION NEEDED TO PREPARE THE FINAL AFFIDAVIT.	I.D. INFO. INV. JT. K.S.I. LG.	— — — J — k — L	

EXISTING HATCH SCHEDULE:

DOOR	DOOR	LOCATION					DOOR					FRAME		
NUMBER	TYPE	ROOM NAME	INT/EXT	WIDTH	LENGTH	PANEL THICKNESS	TOTAL PANEL COUNT	MAT'L	FINISH	GLAZING TYPE	FRAME TYPE	THRESHOLD TYPE GASKET	FIRE RATING	HARDWARE
H—1	HATCH	PUMP CONTROL ROOM	INT	5'-0"	5'-0"	0'-1 ¹	2	AL-1		N/A	F	YES		HD-8
H-2	HATCH	PUMP CONTROL ROOM	INT	5'-0"	5'-0"	0'-1 ¹	2	AL-1		N/A	F	YES		HD-8
H-3	HATCH	EXTERIOR ENTRY PLATFORM	EXT	4'-0"	4'-0"	0'-1 ¹	2	AL-1		N/A	F	YES		HD-7
H-4	HATCH	EXTERIOR ENTRY PLATFORM	EXT	4'-0"	4'-0"	0'-1 ¹	2	AL-1		N/A	F	YES		HD-7
H-5	HATCH	EXTERIOR ENTRY PLATFORM	EXT	4'-0"	4'-0"	0'-1 ¹	2	AL-1		N/A	F	YES		HD-7
H-6	HATCH	EXTERIOR ENTRY PLATFORM	EXT	3'-6"	3'-6"	$0'-1\frac{1}{8}"$	1	AL-1		N/A	F	YES		HD-7

HD-7 MANUFACTURERS HARDWARE WITH TAMPER PROOF KEY SET FULLY WATERPROOF GASKET SEAL ALL AROUND HD-8 MANUFACTURERS HARDWARE

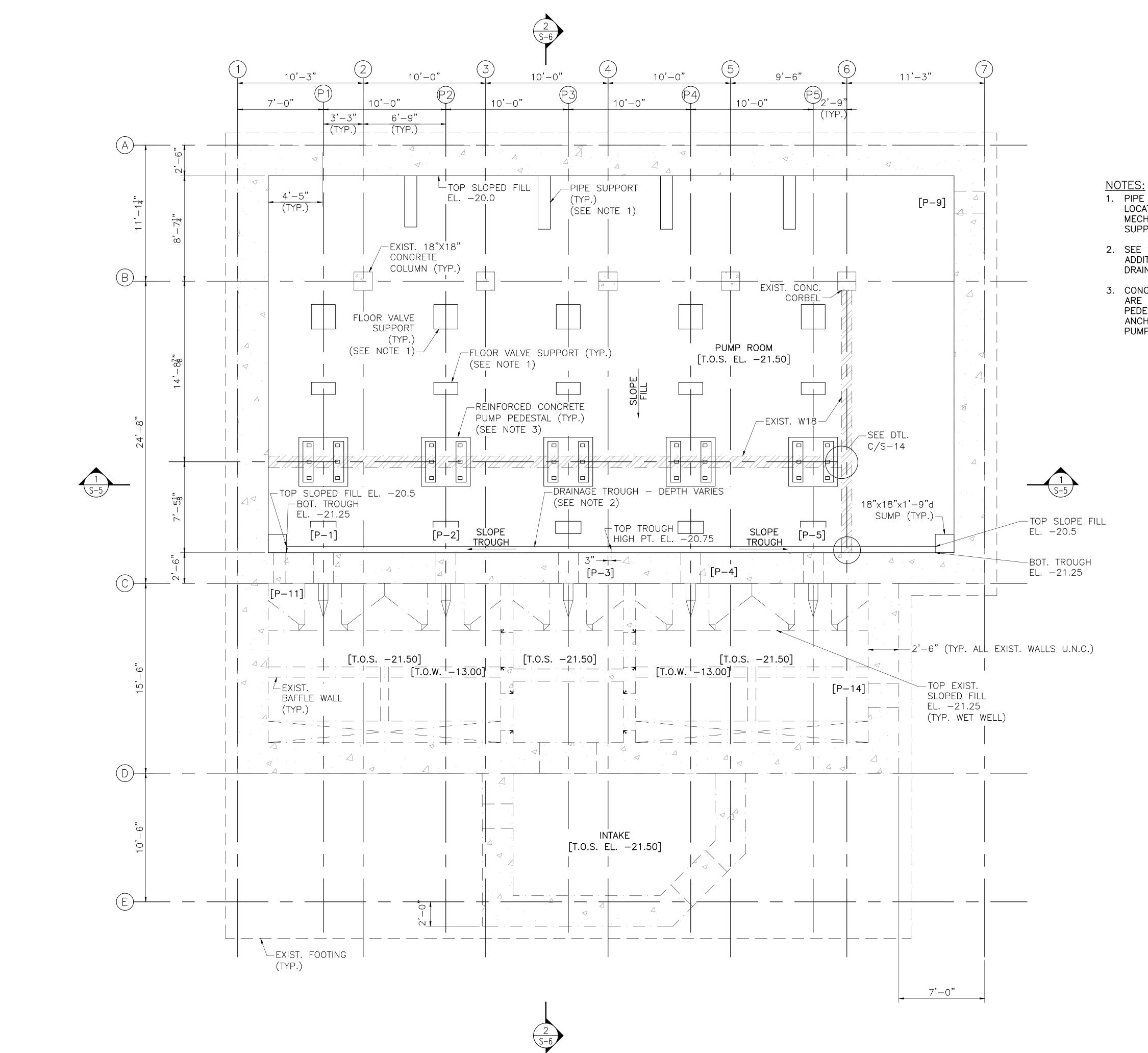
EXISTING CONCRETE PENETRATION SCHEDULE: [REFERENCE CONTRACT DOCUMENTS MAIN LIFT PUMP STATION FOUNDATION FOR INFORMATION NOT SHOWN IN THESE DRAWINGS]

PENETRATION NUMBER	PENETRATION TYPE	PENETRATION LOCATION	CENTERLINE ELEVATION	PIPE DESCRIPTION	PIPE MATERIAL	NOMINAL PIPE SIZE (IN)	PENETRATION SIZE (IN)
P-1	FLUSH FLANGE × FLUSH FLANGE WALL PIPE	PUMP ROOM SEPARATING WALL	-18.63	PUMP SUCTION	DUCTILE IRON	18	N/A
P-2	FLUSH FLANGE x FLUSH FLANGE WALL PIPE	PUMP ROOM SEPARATING WALL	-18.63	PUMP SUCTION	DUCTILE IRON	18	N/A
P-3	FLUSH FLANGE x FLUSH FLANGE WALL PIPE	PUMP ROOM SEPARATING WALL	-18.63	PUMP SUCTION	DUCTILE IRON	18	N/A
P-4	FLUSH FLANGE x FLUSH FLANGE WALL PIPE	PUMP ROOM SEPARATING WALL	-18.63	PUMP SUCTION	DUCTILE IRON	18	N/A
P-5	FLUSH FLANGE x FLUSH FLANGE WALL PIPE	PUMP ROOM SEPARATING WALL	-18.63	PUMP SUCTION	DUCTILE IRON	18	N/A
P-6	WALL SLEEVE	INFLUENT CHAMBER	-2.05	INFLUENT SEWER	GALVANIZED STEEL	48	56
P-7	WALL SLEEVE	INFLUENT CHAMBER	-10.28	SIPHON DISCHARGE	GALVANIZED STEEL	24	28
P-8	WALL SLEEVE	INFLUENT CHAMBER	-2.00	SIPHON DISCHARGE	GALVANIZED STEEL	24	28
P-9	FLUSH FLANGE x MJ WALL PIPE	WEST PUMP ROOM WALL	-6.70	PUMP DISCHARGE HEADER	DUCTILE IRON	20	N/A
P-10	FLUSH FLANGE x MJ WALL PIPE	WEST MEZZANINE WALL	0.19	PUMP DISCHARGE HEADER	DUCTILE IRON	20	N/A
P-11	FLUSH FLANGE x FLUSH FLANGE WALL PIPE	PUMP ROOM SEPARATING WALL	-7.65	FORCE MAIN DRAIN	DUCTILE IRON	8	12
P-12	WALL SLEEVE	MEZZANINE SEPARATING WALL	11.50	SUMP PUMP	GALVANIZED STEEL	1 1	3 <mark>1</mark> "
P-13	WALL SLEEVE	MEZZANINE SEPARATING WALL	11.50	SUMP PUMP	GALVANIZED STEEL	1 1	3 <u>1</u> "
P-14	WALL SLEEVE	WET WELL-3	-2.00	OVERFLOW PIPE	GALVANIZED STEEL	24	28
P-15	PENETRATION	INFLUENT CHAMBER	12.66	VENTILATION	FORMED CONCRETE	16	N/A

ABBREVIATIONS:

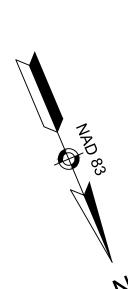
 ARCHITECTURAL ADDITIONAL APPROXIMATE BEARING BOTTOM OF CENTER TO CENTER CENTERLINE CAST IN PLACE CONCRETE CONSTRUCTION CONTINUOUS CUBIC YARD DEEP DETAIL DETAIL DETAIL DETAIL DAMETER DRAWING EACH ELEVATION EMBEDMENT EACH SIDE EACH SIDE EACH SIDE EACH WAY EXISTING EXPANSION FINISH FACE OF FEET/FOOT FOOTING GAUGE GALVANIZED GENERAL CONTRACTOR HIGH HORIZONTAL 	(LLH) (LLV) LOC.'S MAX. MIN. MISC. N.F. N.S. N.T.S. NO. O.C. O.D. O.F. PERIM. FL PVC P.S.F. P.S.I. RAD. REINF. REQ'D SECT. SCH. S.F. SHT. SIM. S.F. SIM. S.F. SIM. S.F. SIM. S.S. STD. STL. SYM. t T&B T.O. TO.S.	 LONG LEG HORIZONTAL LONG LEG VERTICAL LOCATIONS MAXIMUM MINIMUM MISCELLANEOUS NEAR FACE NEAR SIDE NOT TO SCALE NUMBER ON CENTER OUTSIDE DIAMETER OUTSIDE FACE PERIMETER POLYVINYL CHLORIDE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH RADIUS REINFORCING REQUIRED SCHEDULE SQUARE FOOT SHEET SIMILAR SPACES STAINLESS STEEL STANDARD STEEL SYMMETRIC TOP AND BOTTOM TOP OF TOP OF SLAB 	SECTION CUT SYMBOL:
- FOOTING	STL.	– STEEL	
- GALVANIZED	t	– THICK	
- HIGH			
- HORIZONTAL - HIGH POINT			
- INSIDE FACE	T.O.W. TYP.	– TOP OF WALL – TYPICAL	
- INCH	U.N.O.	- UNLESS NOTED OTHERWISE	
- INSIDE DIAMETER	VERT.	- VERTICAL	
- INFORMATION - INVERT	W.W.F.	- WELDED WIRE FABRIC	
- JOINT	w	- WIDE	
- KIPS PER SQUARE INCH	w/ Ø	– WITH – DIAMETER	
- LONG	Ψ	- DIAMETER	

				PREPARED BY
SECTION AND		ESIGNATION:	<u>S:</u>	BETA
			SECTION NUMBER	www.BETA-Inc.com
			SHEET NUMBER WHERE	REGISTERED PROFESSIONAL
DETAIL SYMBOL	•		SECTION APPEARS	
XXXX (SEE DTL.) DETAIL LETTER SHEET NUMBI		AP	DTL. X/S-1) PROXIMATE OF DETAIL	
				SUBCONSULTANT
				PROJECT Main Lift
				Pump Station
AME			NOTES	Taunton, MA
HOLD TYPE GASKE	FIRE RATING	HARDWARE	NOTES	 TITLE
YES		HD-8		
YES		HD-8		 STRUCTURAL NOTES
YES		HD-7		(2 OF 2)
YES YES		HD-7 HD-7		
YES		HD=7 HD=7		
FOR INFORM	ATION NOT	SHOWN IN		
NOMINAL PIPE SI		TION SIZE		
(IN)		N)		
18	N	/A		
18		/A		
18		/A		NO. REVISIONS DATE
18		/A		DRAWN BY: BWN
18		/A		DESIGNED BY: TMW
48		56		CHECKED BY: CWJ
24		28		ISSUE DATE: JULY 2020
24 20		28 /A		BETA JOB NO.: 5530
20		/A		SCALE
8		2		NONE
1 <u>1</u>		2 ¹ "		
1 ¹ / ₂				UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION
24	2	28		
16	N	/A		SHEET NO. S-2



[PLAN @ ELEV. -21.50] PUMP ROOM PLAN

SCALE: $\frac{1}{4}$ " = 1'-0"

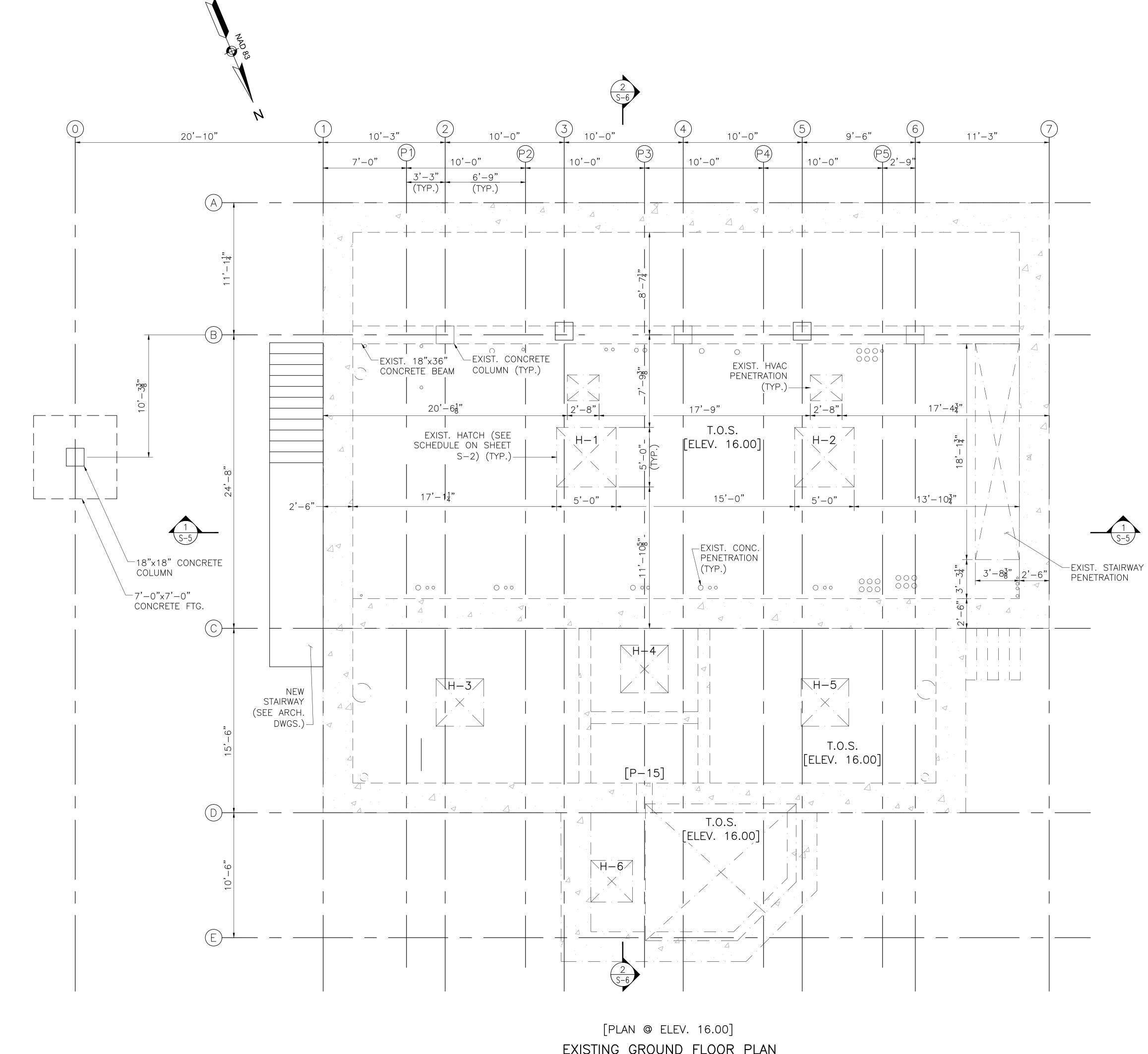


1. PIPE AND FLOOR VALVE SUPPORT LOCATIONS ARE APPROXIMATE. SEE MECHANICAL DRAWINGS FOR PIPE SUPPORT DETAILS AND NOTES.

2. SEE SHEET A-05 AND S-6 FOR ADDITIONAL SLOPED FILL AND DRAINAGE TROUGH ELEVATIONS.

3. CONCRETE PUMP PEDESTALS SHOWN ARE FOR CONCEPTUAL PURPOSES. PEDESTAL SIZE, CONFIGURATION, AND ANCHORAGE TO BE SUPPLIED BY PUMP MANUFACTURER.

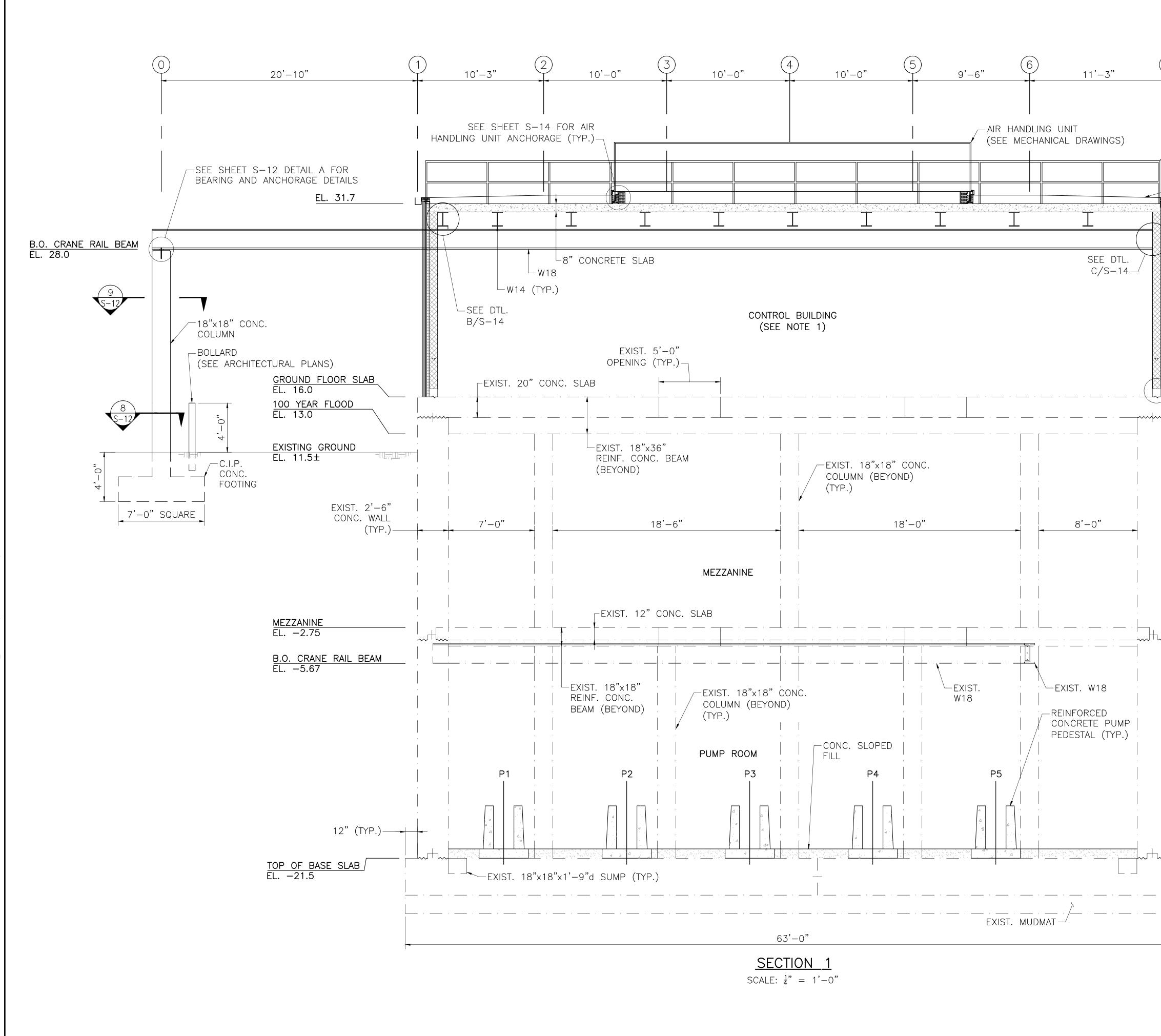
PREPARED BY	A
REGISTERED PROFESSIONAL	
SUBCONSULTANT	
TODD M. WARZECKI TOUL No. 9414 REGISTERED PROFESSIONAL ENGINEER CIVIL	
PROJECT	
Main Lift	
Pump Station	
Tourston MA	
Taunton, MA	
EXISTING PUMP RC PLAN	DOM
NO. REVISIONS	DATE
DRAWN BY: BWN	
DESIGNED BY: TMW	
CHECKED BY: CWJ	
ISSUE DATE: JULY 2020	
BETA JOB NO.: 5530	
SCALE	
AS SHOWN	
SHEET NO. S-3	



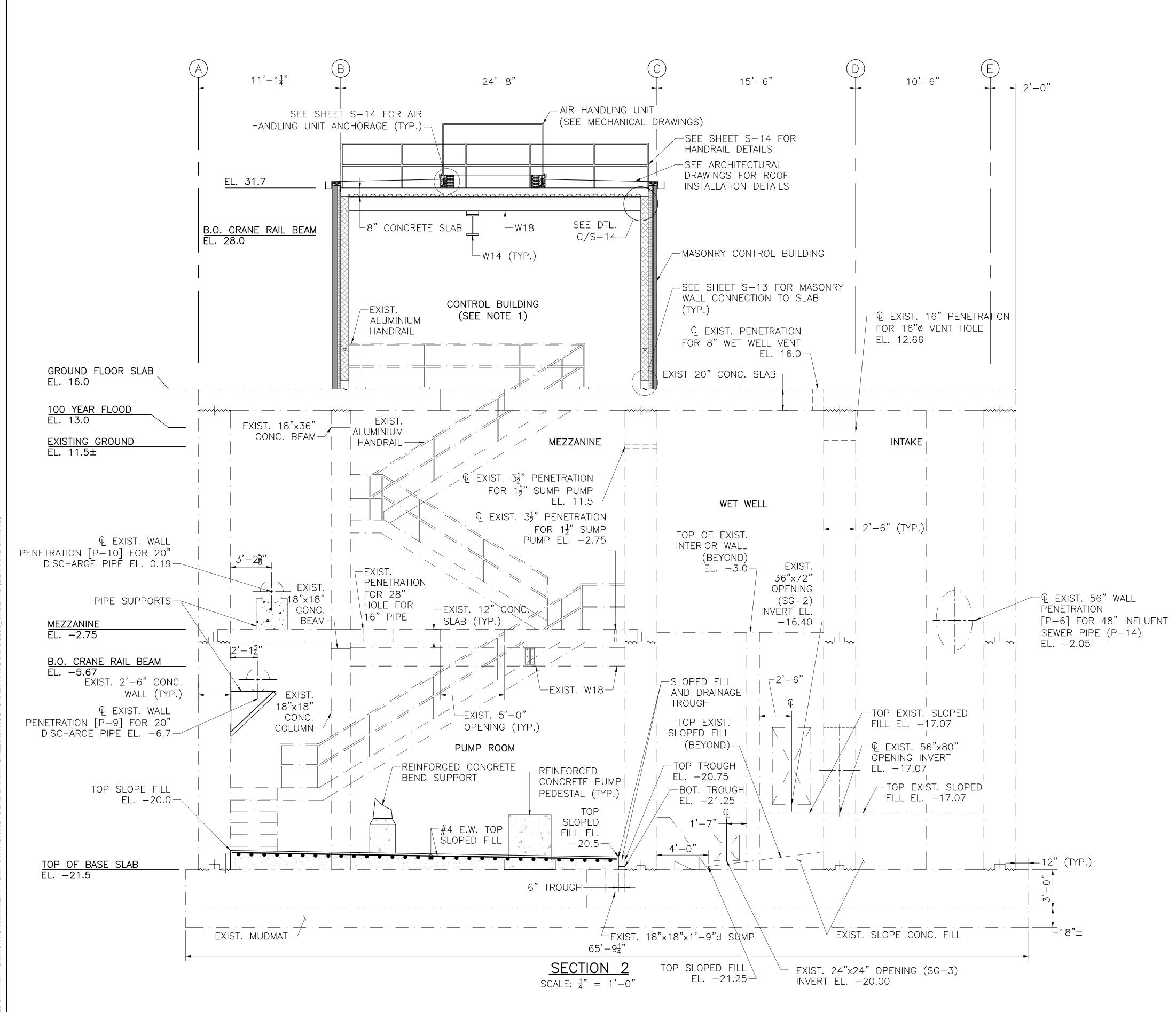
EXISTING GROUND FLOOR PLAN SCALE: $\frac{1}{4}$ " = 1'-0"

PREPARED BY	
SBETA-Inc.com	
REGISTERED PROFESSIONAL	
SUBCONSULTANT	
TODD M. WARZECKI TOULUN ST/17/20 No. 9414 REGISTERED PROFESSIONAL ENGINEER CIVIL	
PROJECT	
Main Lift	
Pump Station	
Γυπροιατοτ.	
Taunton, MA	-
TITLE	_
EXISTING GROUND FLOOR PLAN	
NO. REVISIONS DA	
DRAWN BY: BWN	
DESIGNED BY: TMW	_
CHECKED BY: CWJ	-
ISSUE DATE: JULY 2020	
BETA JOB NO.: 5530	
AS SHOWN	
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION	
SHEET NO.	
S-4	





	PREPARED BY
NOTES: 1. SEE CONTROL BUILDING SECTIONS ON SHEET S-10.	SBETA-Inc.com
2. CONCRETE PUMP PEDESTALS SHOWN ARE FOR CONCEPTUAL PURPOSES. PEDESTAL SIZE, CONFIGURATION, AND ANCHORAGE TO BE SUPPLIED BY PUMP MANUFACTURER.	REGISTERED PROFESSIONAL
3. ROOF SLAB REINFORCEMENT NOT SHOWN FOR CLARITY.	
4. SEE SHEET S-10 FOR ROOF SLAB SEE SHEET REINFORCEMENT. S-14 FOR	
HANDRAIL DETAILS	SUBCONSULTANT
SEE J ARCHITECTURAL DRAWINGS FOR ROOF INSTALLATION DETAILS	TODD M. W.RZECKI TOCK No. REGISTERED PROFESSIONAL ENGINEER CIVIL
MASONRY CONTROL BUILDING (SEE NOTE 1 AND 4)	PROJECT
-SEE SHEET S-13 FOR MASONRY WALL CONNECTION TO SLAB (TYP.)	Main Lift
	Pump Station
	Taunton, MA
	TITLE
	BUILDING SECTIONS (1 OF 2)
	NO. REVISIONS DATE DRAWN BY: BWN
	DESIGNED BY: TMW
	CHECKED BY: CWJ ISSUE DATE: JULY 2020
	BETA JOB NO.: 5530
18"±	SCALE AS SHOWN
	UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION
	SHEET NO.
	S-5



ECTIONS ON SHEET S-10. LS SHOWN ARE FOR CONCEPTUAL E, CONFIGURATION, AND IED BY PUMP MANUFACTURER. IT NOT SHOWN FOR CLARITY. OF SLAB REINFORCEMENT.	REGISTERED PROFESSIONAL
ARE APPROXIMATE. SEE R PIPE SUPPORT DETAILS AND	SUBCONSULTANT TODD M. WARZECKI No. YAIA PEGISTERED PROJECT Main Lift Pump Station Taunton, MA TITLE BUILDING SECTION (2 OF 2)
	NO. REVISIONS DA
	DESIGNED BY: TMW CHECKED BY: CWJ ISSUE DATE: JULY 2020 BETA JOB NO.: 5530 SCALE
	AS SHOWN UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION SHEET NO. SHEET NO.

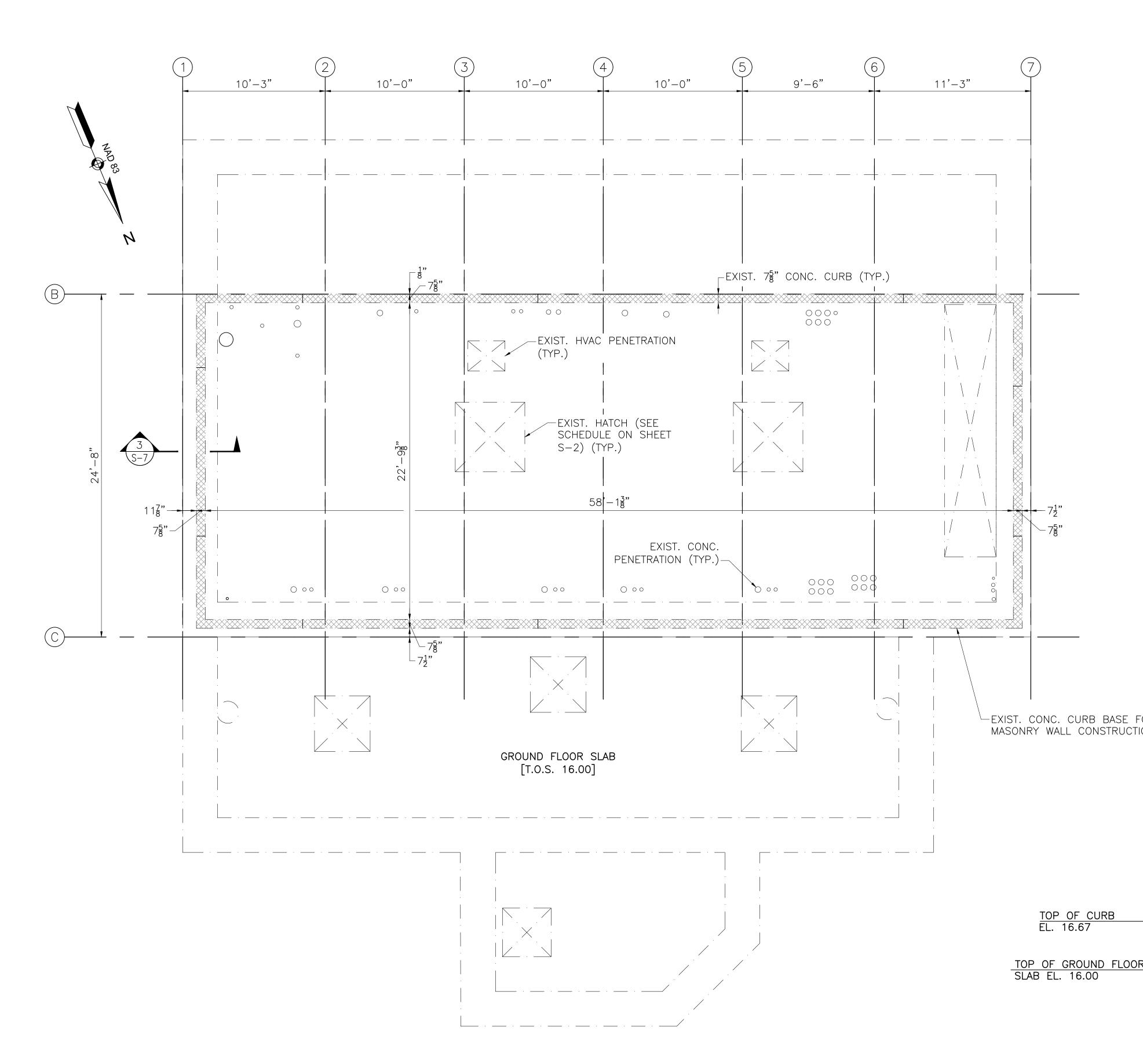
PREPARED BY

DATE

NOTES:

- 1. SEE CONTROL BUILDING SE
- 2. CONCRETE PUMP PEDESTA PURPOSES. PEDESTAL SIZE ANCHORAGE TO BE SUPPL
- 3. ROOF SLAB REINFORCEMEN
- 4. SEE SHEET S-10 FOR ROO
- 5. PIPE SUPPORT LOCATIONS MECHANICAL DRAWINGS FOR NOTES.

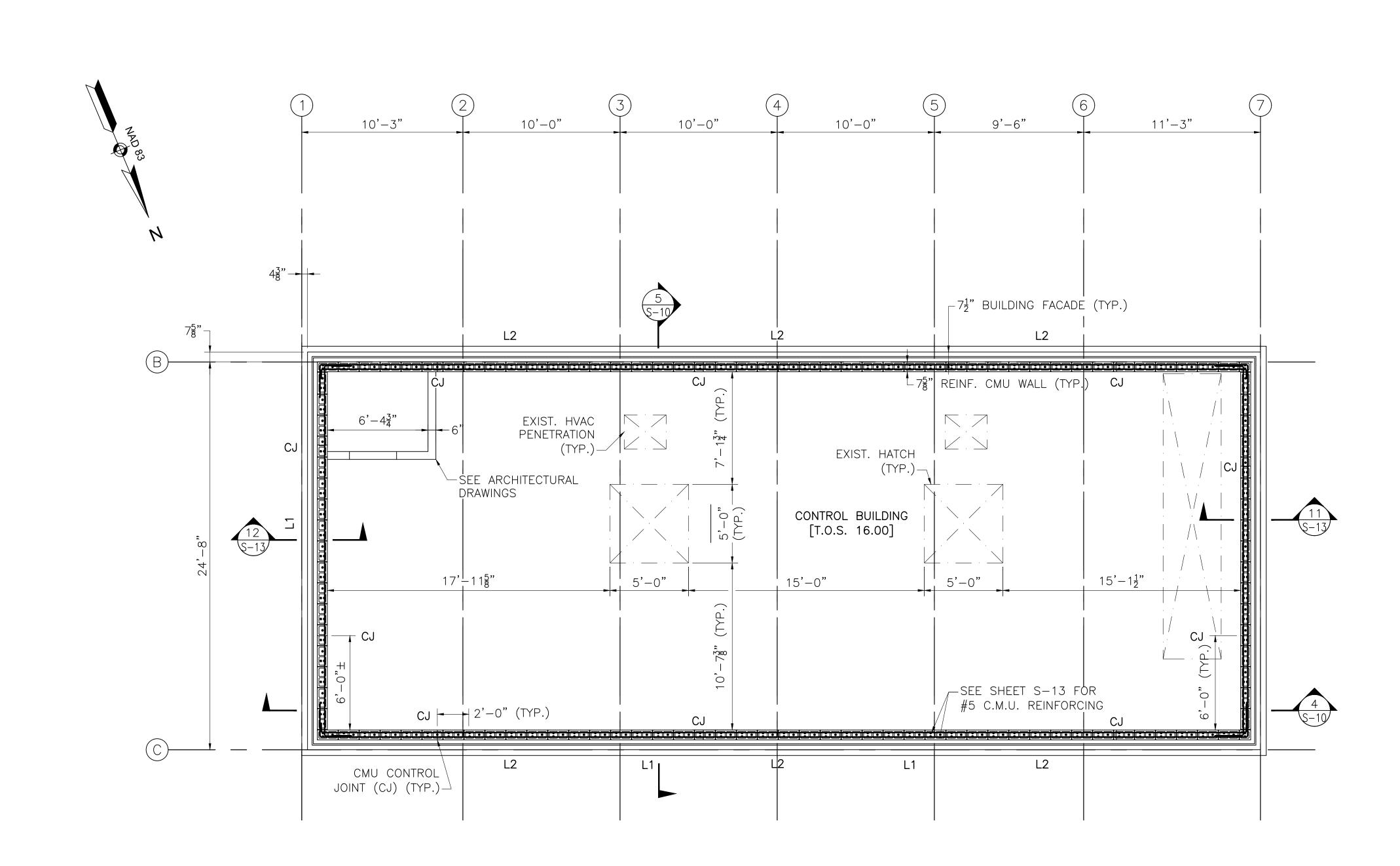




MASONRY WALL CONNECTION PLAN SCALE: $\frac{1}{4}$ " = 1'-0"

	PREPARED BY SECONDENSIONAL
	SUBCONSULTANT
	PROJECT Main Lift
	Pump Station
	Taunton, MA
	CONTROL BUILDING EXISTING BASE PLAN
OR ON	
EXIST. #5 DOWEL @ 16" O.C.	
VERT. LAP W/ MASONRY WALL #5 @ 16"	
EXIST. 8"wx8"h C.I.P. CONC. CURB	NO.REVISIONSDATEDRAWN BY:BWN
	DESIGNED BY: TMW
	CHECKED BY: CWJ
	ISSUE DATE: JULY 2020 BETA JOB NO.: 5530
	SCALE
<u>SECTION 3</u>	AS SHOWN
SCALE: $\frac{3}{4}$ " = 1'-0"	UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION
	SHEET NO. S-7





NOTES:

1.	SEE AND
2.	LOCA CON ⁻
3.	CMU BRIC BETV

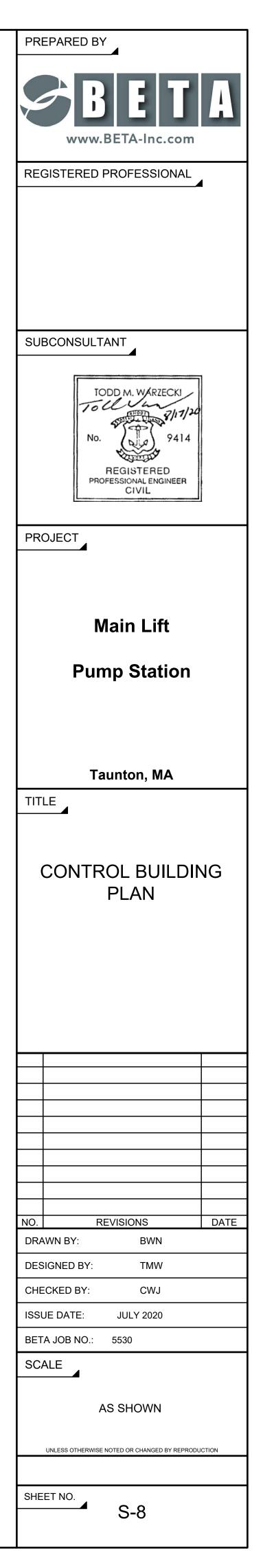
[PLAN @ ELEV. 16.00] CONTROL BUILDING PLAN SCALE: $\frac{1}{4}$ " = 1'-0"

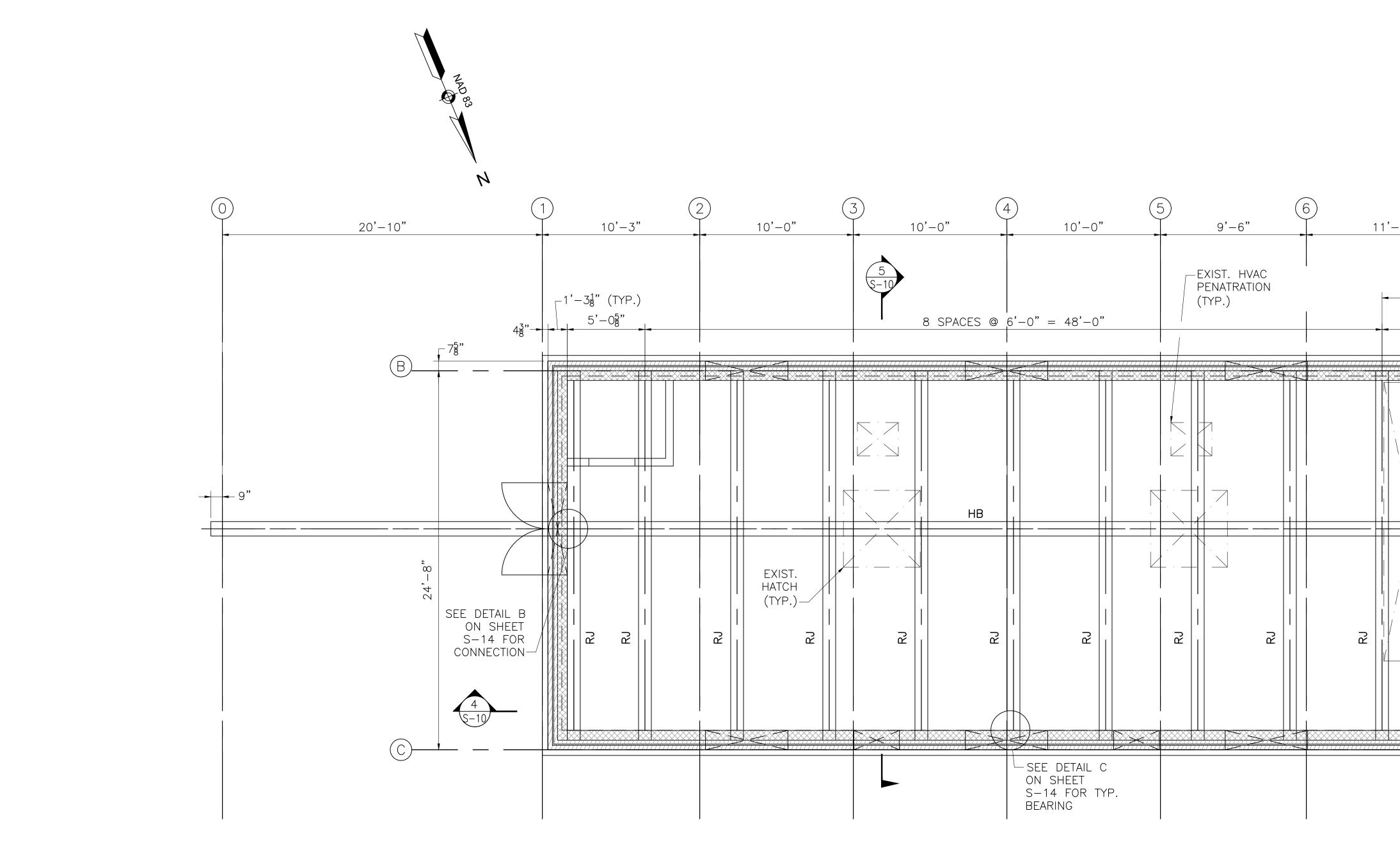
ARCHITECTURAL DRAWINGS FOR LOCATIONS OF DOOR OPENINGS WINDOWS.

CATION OF CMU CONTROL JOINTS SHOWN IS RECOMMENDED. NTROL JOINTS SHALL BE IN ACCORDANCE WITH NCMA TEK 10-2C CONTROL JOINTS FOR CONCRETE MASONRY WALLS.

CONTROL JOINTS SHALL BE COORDINATED WITH MASON AND CK CONTROL JOINTS. ADEQUATE SPACING SHALL BE PROVIDED TWEEN CMU AND BRICK CONTROL JOINTS.

4. CMU CONTROL JOINTS SHALL HAVE A MAXIMUM SPACING OF 25'-0".

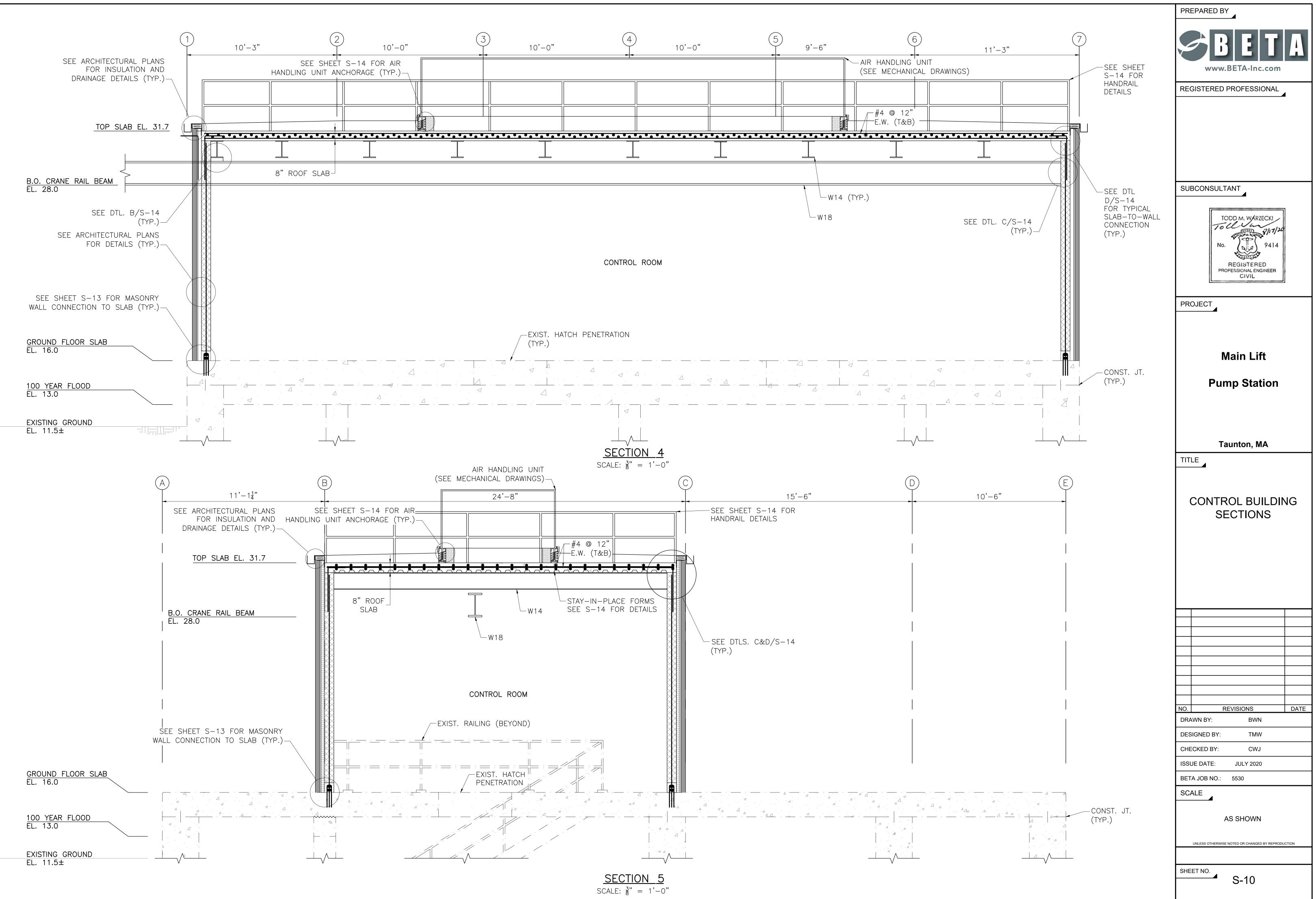


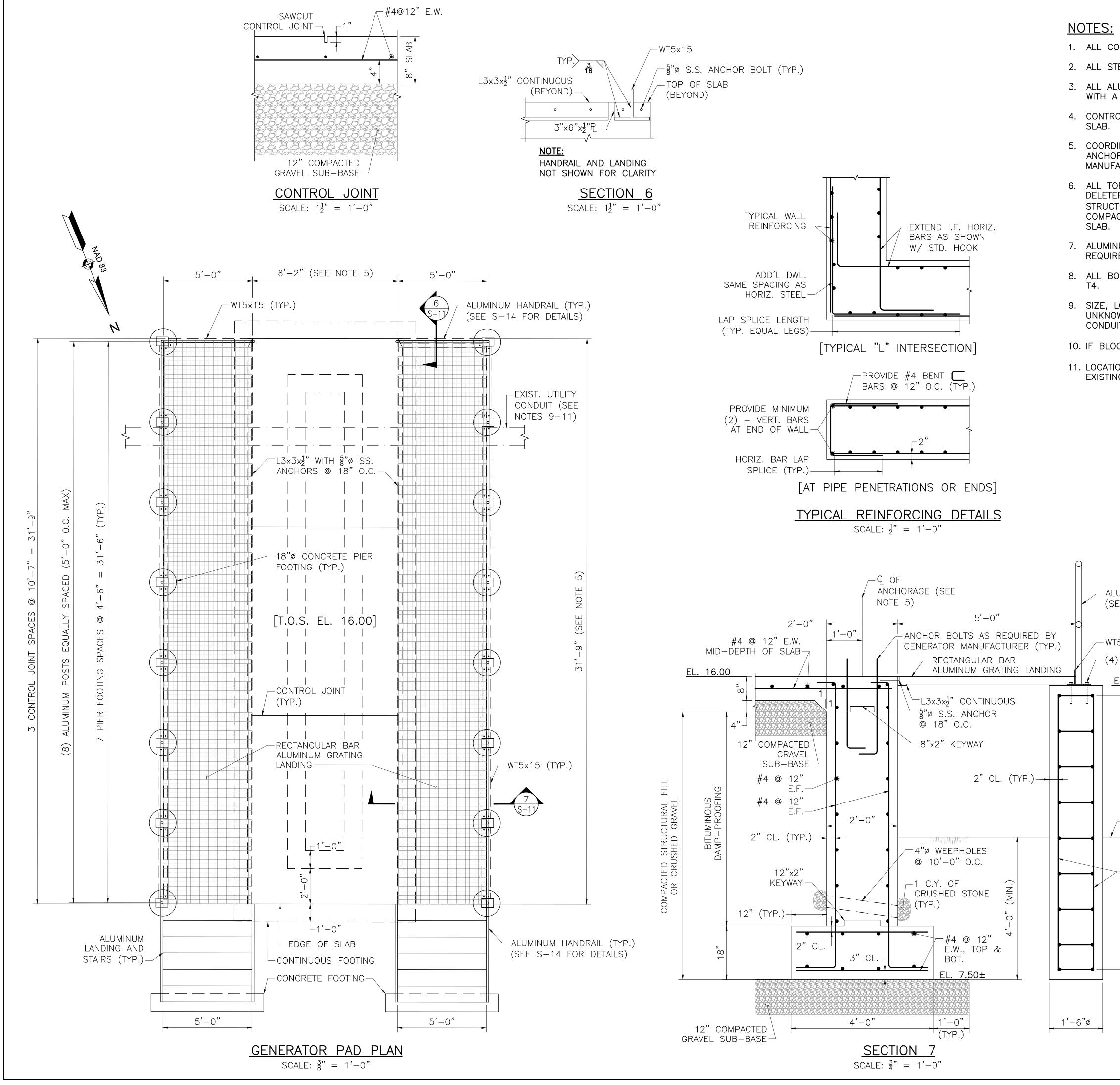




<u>CONTROL</u>	ROOM	ROOF	FRAMING	PLAN
	SCALE	$\frac{1}{4}$ = 1'	-0"	

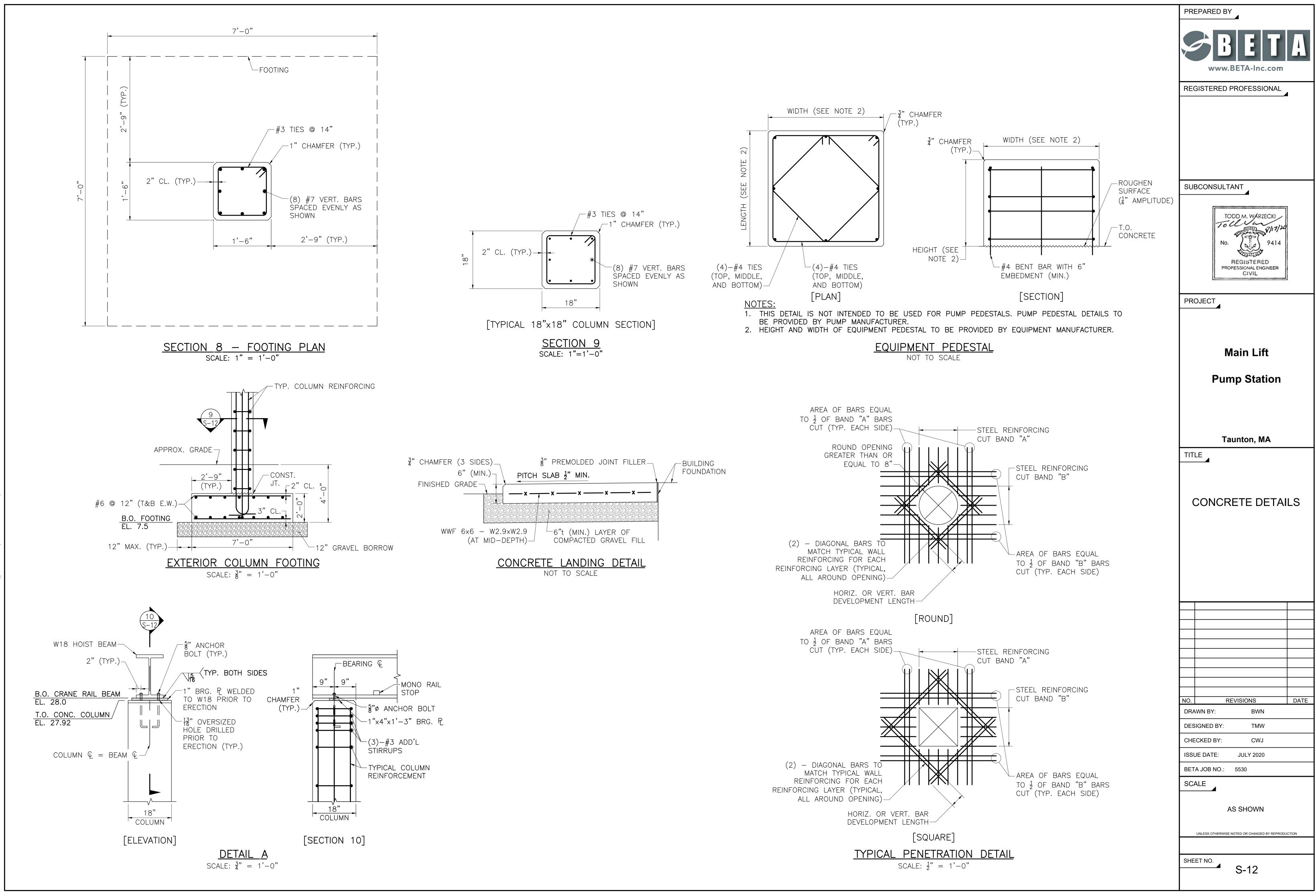
	PREPARED BY
 FRAMING PLAN NOTES: 1. RJ = W14x61 (ROOF JOIST) HB = W18x143 (HOIST BEAM) 2. HOLES SMALLER THAN 12" ARE NOT SHOWN FOR CLARITY. COORDINATE WITH EQUIPMENT MANUFACTURERS AND OTHER DISCIPLINES FOR LOCATIONS. 	SEBETA-Inc.com REGISTERED PROFESSIONAL
7 -3" 6'-3 ³ / 5'-0 ⁵ / // // // // // // // SEE DETAIL C ON SHEET ON SHEET	SUBCONSULTANT
S-14 FOR TYP. BEARING	Main Lift Pump Station Taunton, MA
	CONTROL BUILDING ROOF FRAMING PLAN
	Image: Constraint of the second se
	NO.REVISIONSDATEDRAWN BY:BWNDATEDESIGNED BY:TMWCHECKED BY:CWJISSUE DATE:JULY 2020SCALE
	AS SHOWN UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION SHEET NO. S-9

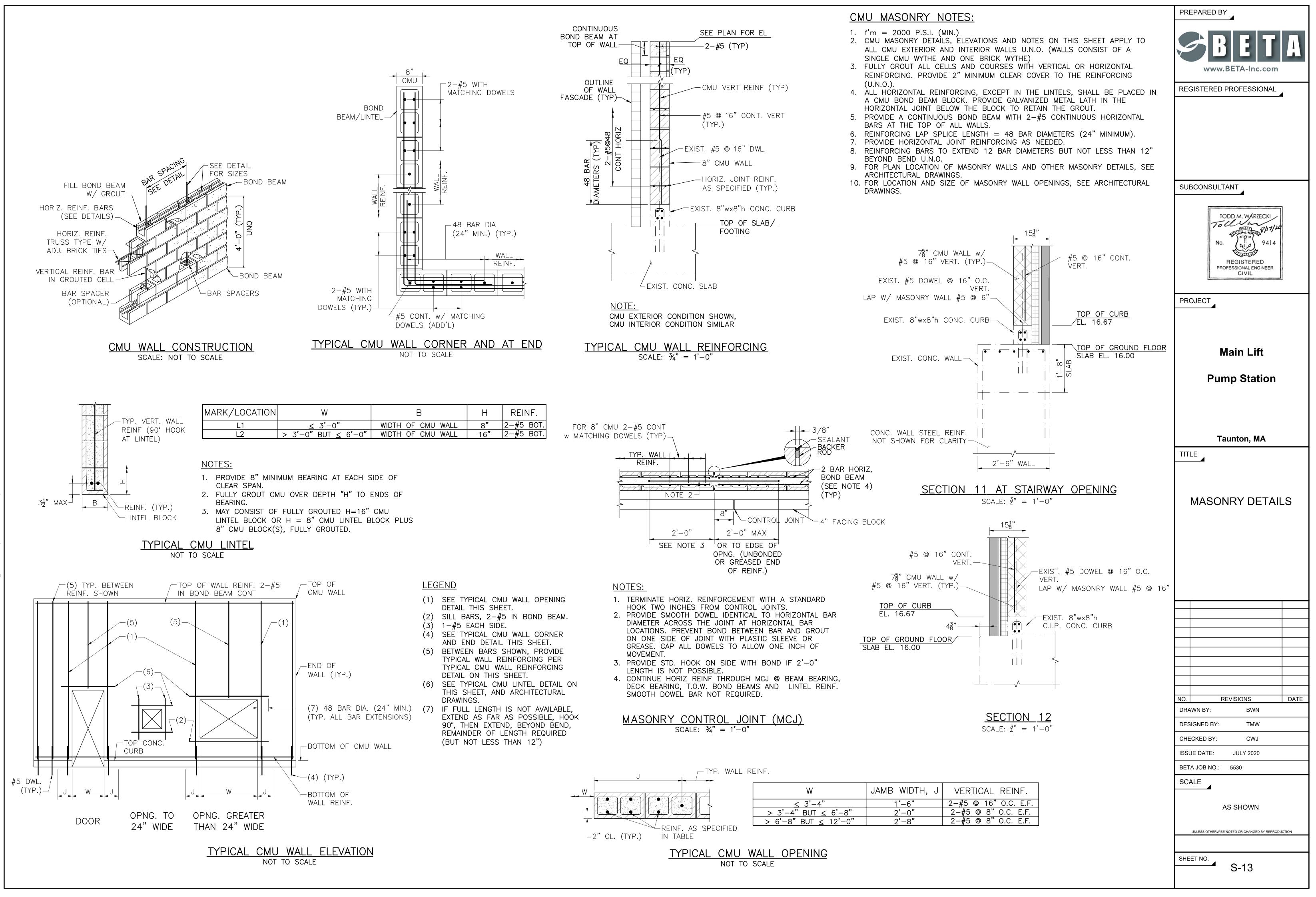


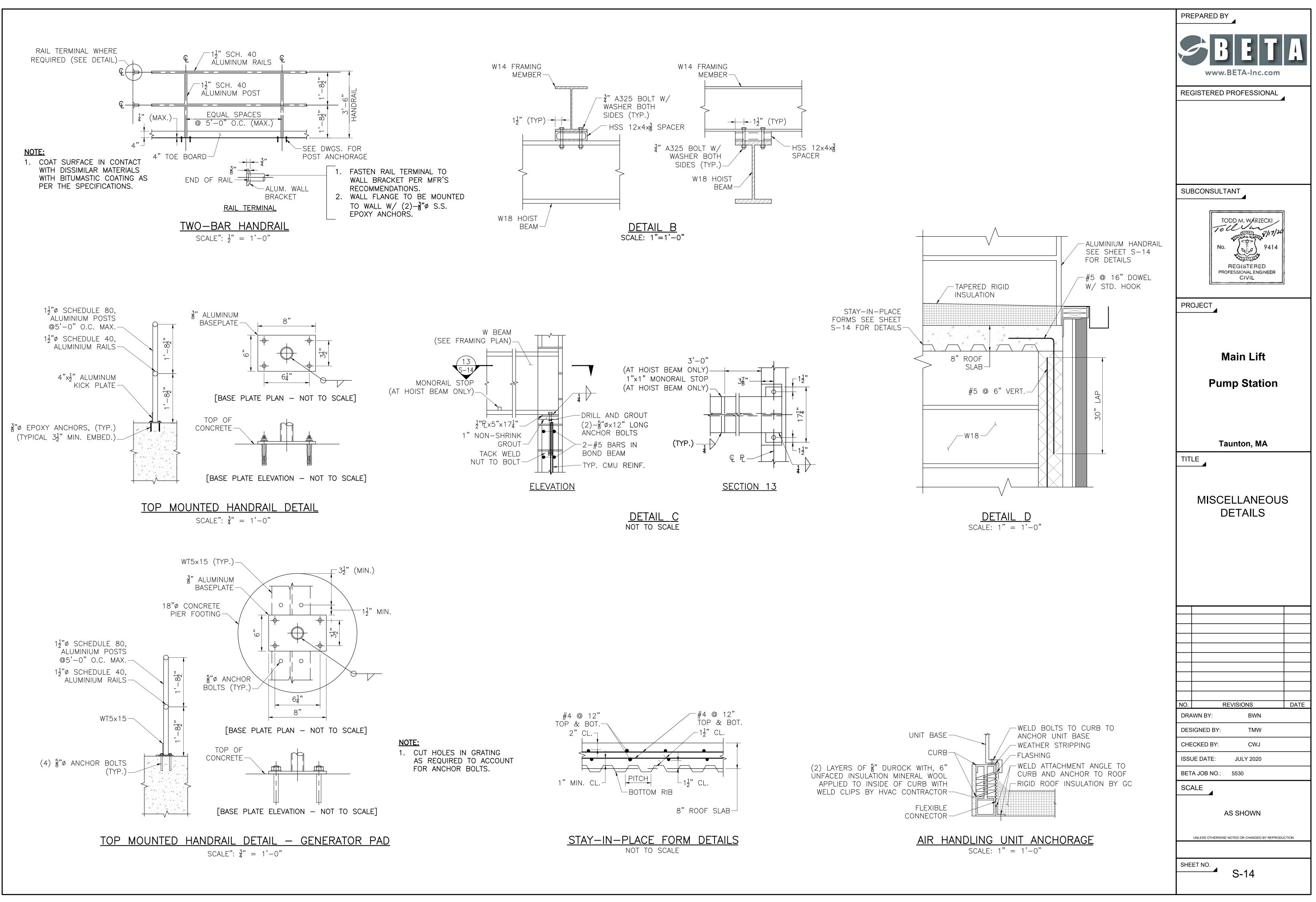


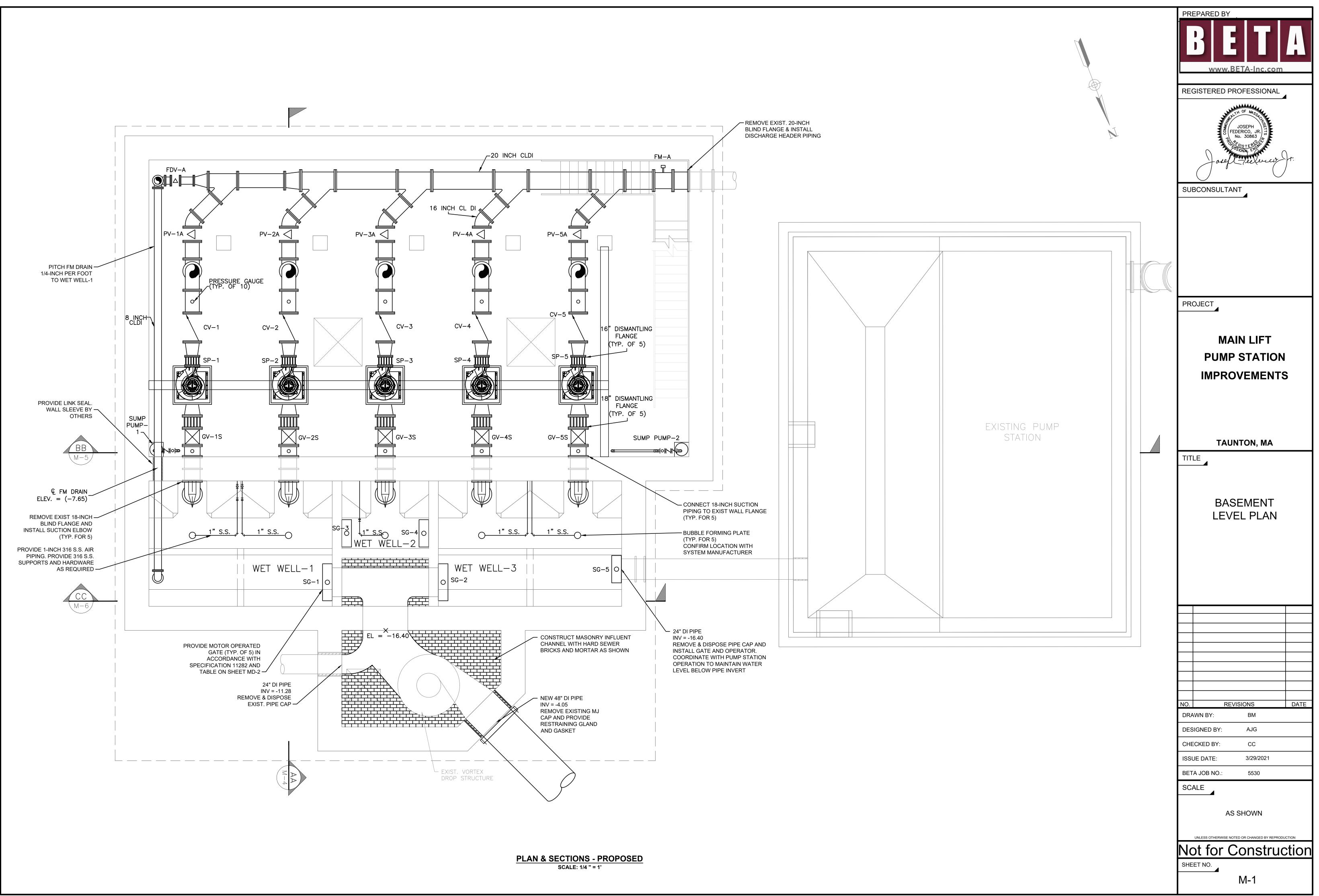
	PREPARED BY
ES:	
LL CONCRETE SHALL BE f'c = 4000 P.S.I.	
LL STEEL REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60.	www.
LL ALUMINUM SURFACES IN CONTACT WITH CONCRETE SHALL BE COATED ITH A HEAVY BITUMINOUS TROWELING MASTIC.	REGISTERED F
ONTROL JOINTS SHALL BE SAWCUT AFTER PLACEMENT OF THE CONCRETE LAB.	
OORDINATE FINAL GENERATOR PAD DIMENSIONS WITH MANUFACTURER. NCHOR BOLTS FOR THE GENERATOR SHALL BE AS REQUIRED BY THE ANUFACTURER AND SET PRIOR TO CONCRETE PLACEMENT.	
LL TOPSOIL, SUBSOIL, NON-ENGINEERED FILL AND ANY OTHER ELETERIOUS SOIL SHOULD BE REMOVED FROM THE BUILDING FOOTPRINT. TRUCTURAL FILL AND/OR CRUSHED GRAVEL SHOULD BE PLACED AND OMPACTED IN LIFTS TO THE ELEVATION OF BOTTOM OF FOUNDATION AND LAB.	SUBCONSULT
LUMINUM PLATES AND STRUCTURAL SHAPES SHALL CONFORM TO THE EQUIREMENTS OF 6063 T6.	10
LL BOLTS AND NUTS SHALL BE STAINLESS STEEL CONFORMING TO 2024 4.	No.
IZE, LOCATION, AND DEPTH OF EXISTING ELECTRIC UTILITY CONDUIT IS NKNOWN. BLOCK OUT WALLS AS REQUIRED AS TO NOT DISTURB EXISTING ONDUIT.	PRO
BLOCK OUT EXCEEDS 12" USE PENETRATION DETAILS ON S-12. DCATION OF 18"Ø CONCRETE PIERS MAY BE MOVED TO ACCOMMODATE XISTING CONDUIT UPON APPROVAL FROM THE ENGINEER.	PROJECT
	 ►
	Pun
	Ta TITLE
– ALUMINUM HANDRAIL (SEE S–14 FOR DETAILS)	GENE
/WT5x15	
/─(4) §"ø anchor bolts	
<u>EL. 15.75</u>	
→ APPROX. FINISHED GRADE ↔ EL. 11.5± @	
# 4	NO. RE
(8) – #4 VERT.	DESIGNED BY:
	CHECKED BY:
	ISSUE DATE:
	BETA JOB NO.:
	SCALE
	A
	UNLESS OTHERWISE
	SHEET NO.

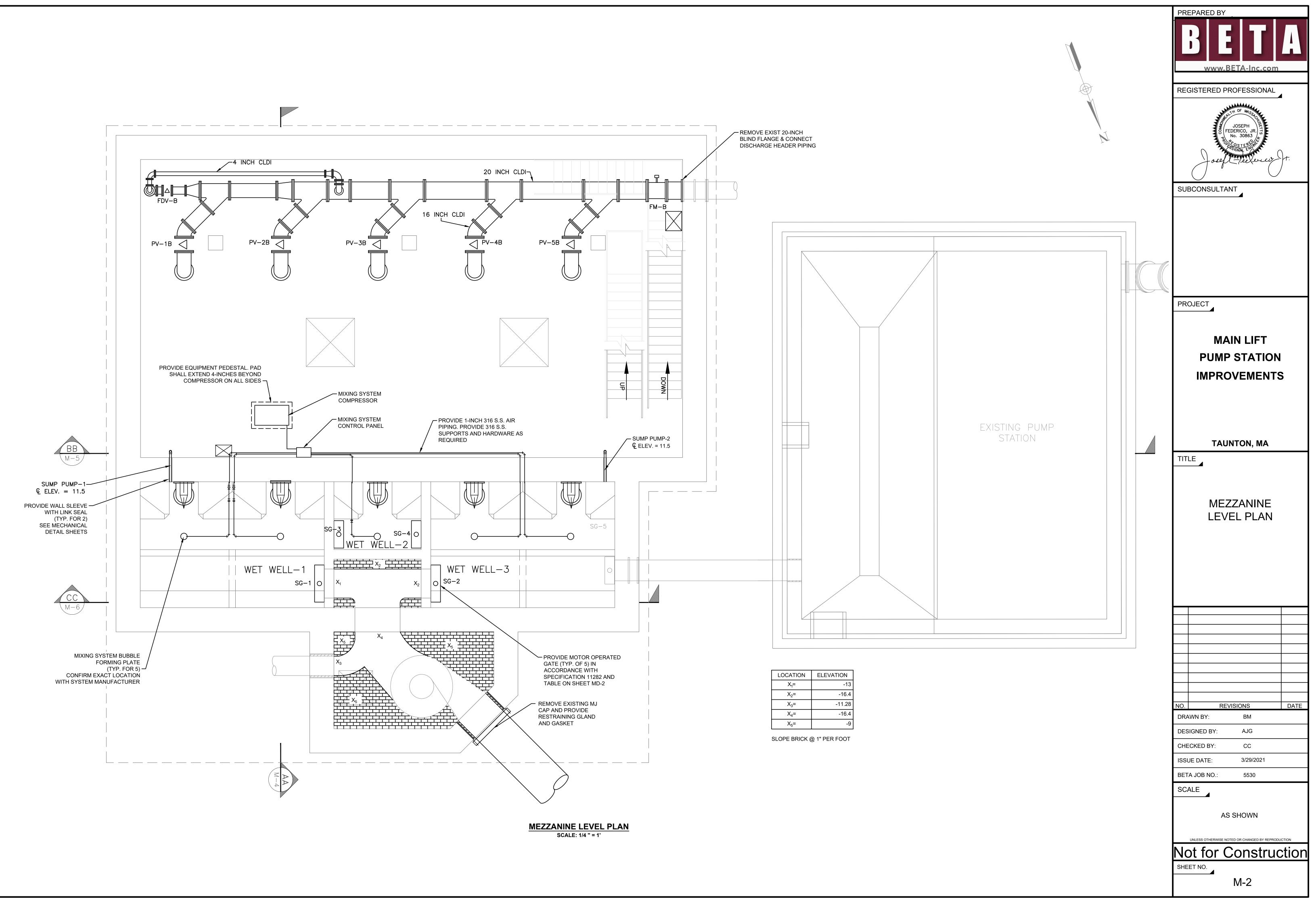
BETA-Inc.com	A
REGISTERED PROFESSIONAL	
SUBCONSULTANT	
TODD M. WARZECKI TOULUN No. 9414 REGISTERED PROFESSIONAL ENGINEER CIVIL	
PROJECT	
Main Lift	
Pump Station	
-	
Taunton, MA	
TITLE	
GENERATOR PAI	
NO. REVISIONS	DATE
DRAWN BY: BWN	
DESIGNED BY: TMW	
CHECKED BY: CWJ	
ISSUE DATE: JULY 2020	
BETA JOB NO.: 5530	
JUALE	
AS SHOWN	
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODU	CTION
SHEET NO. S-11	

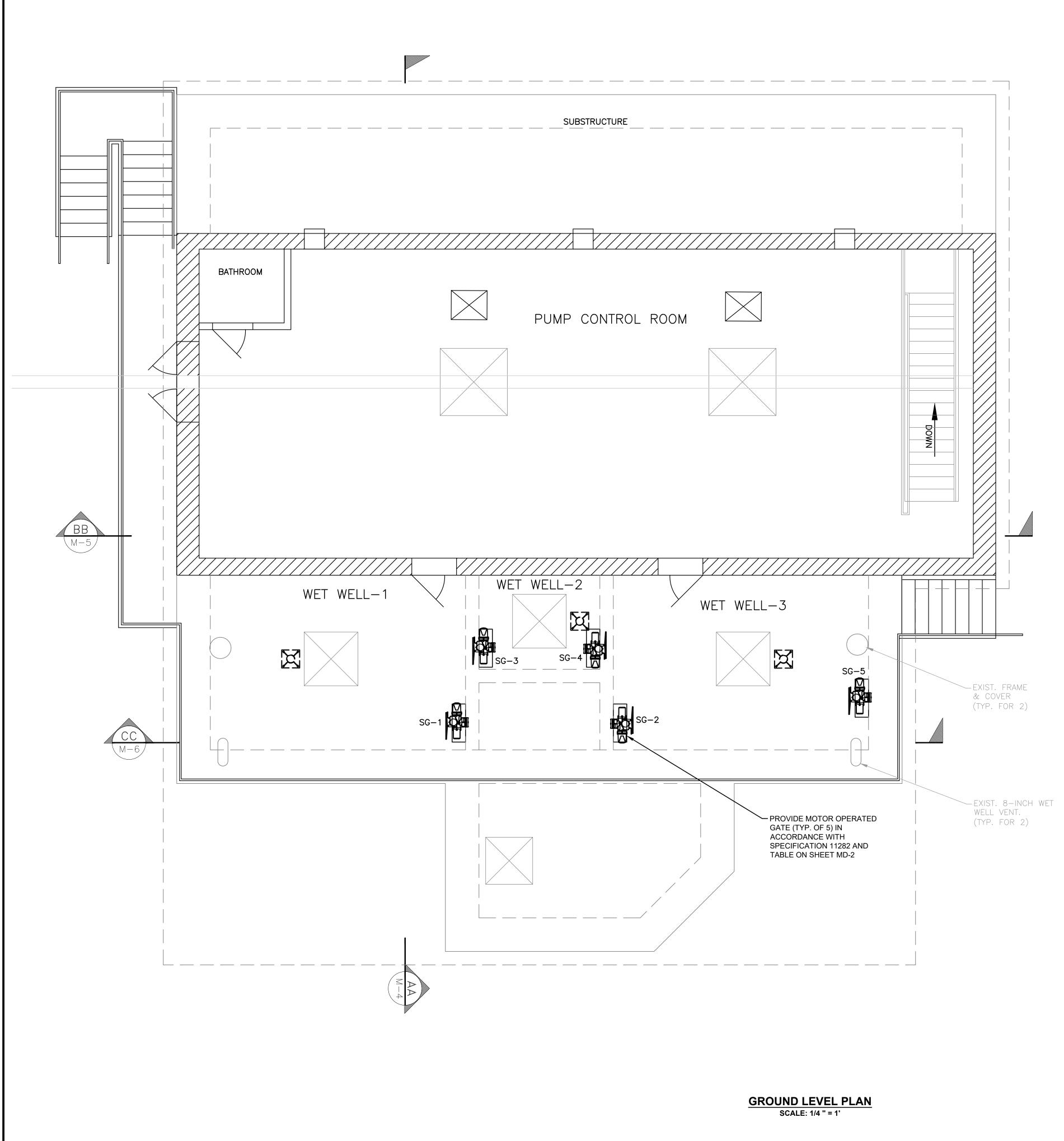


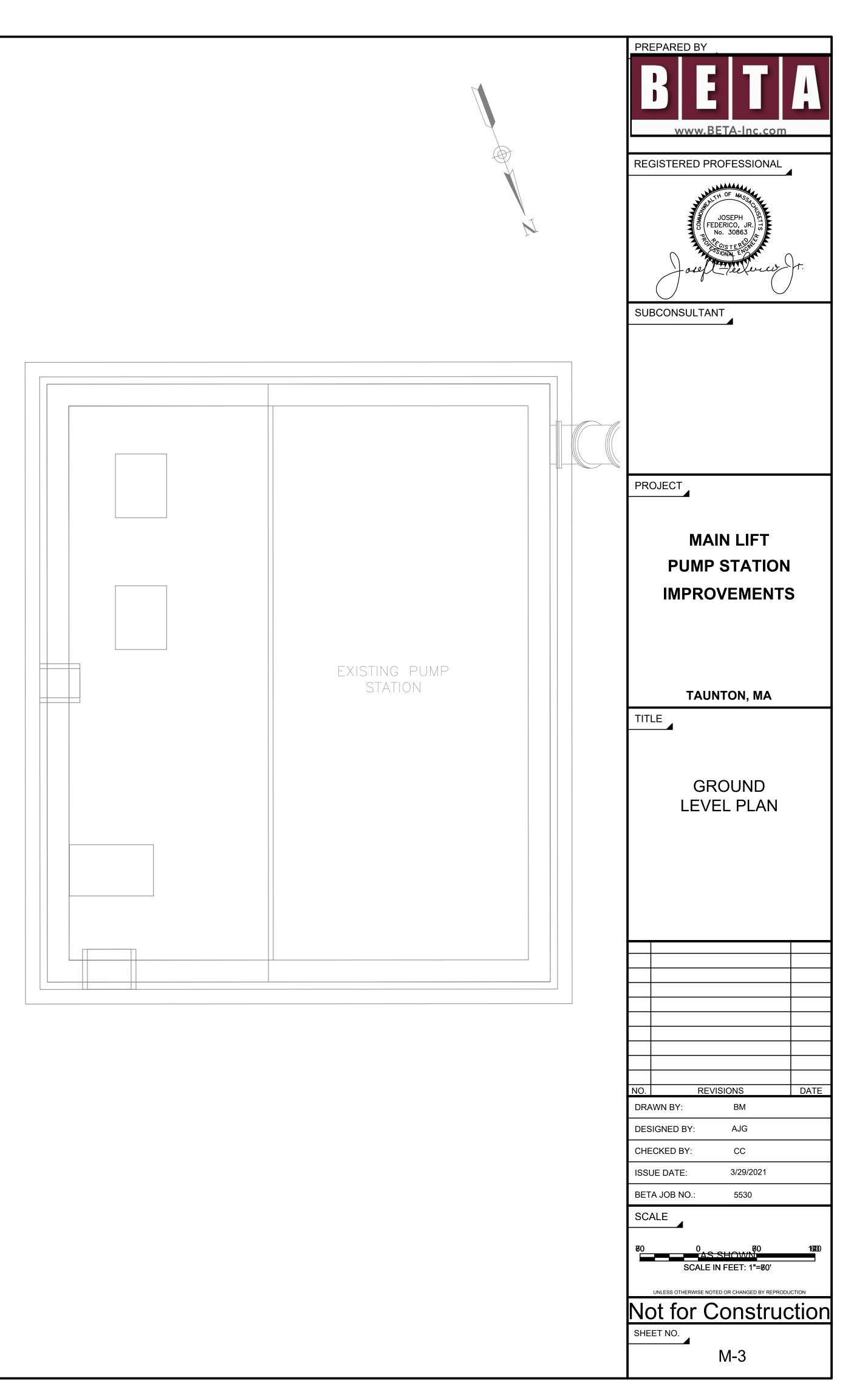


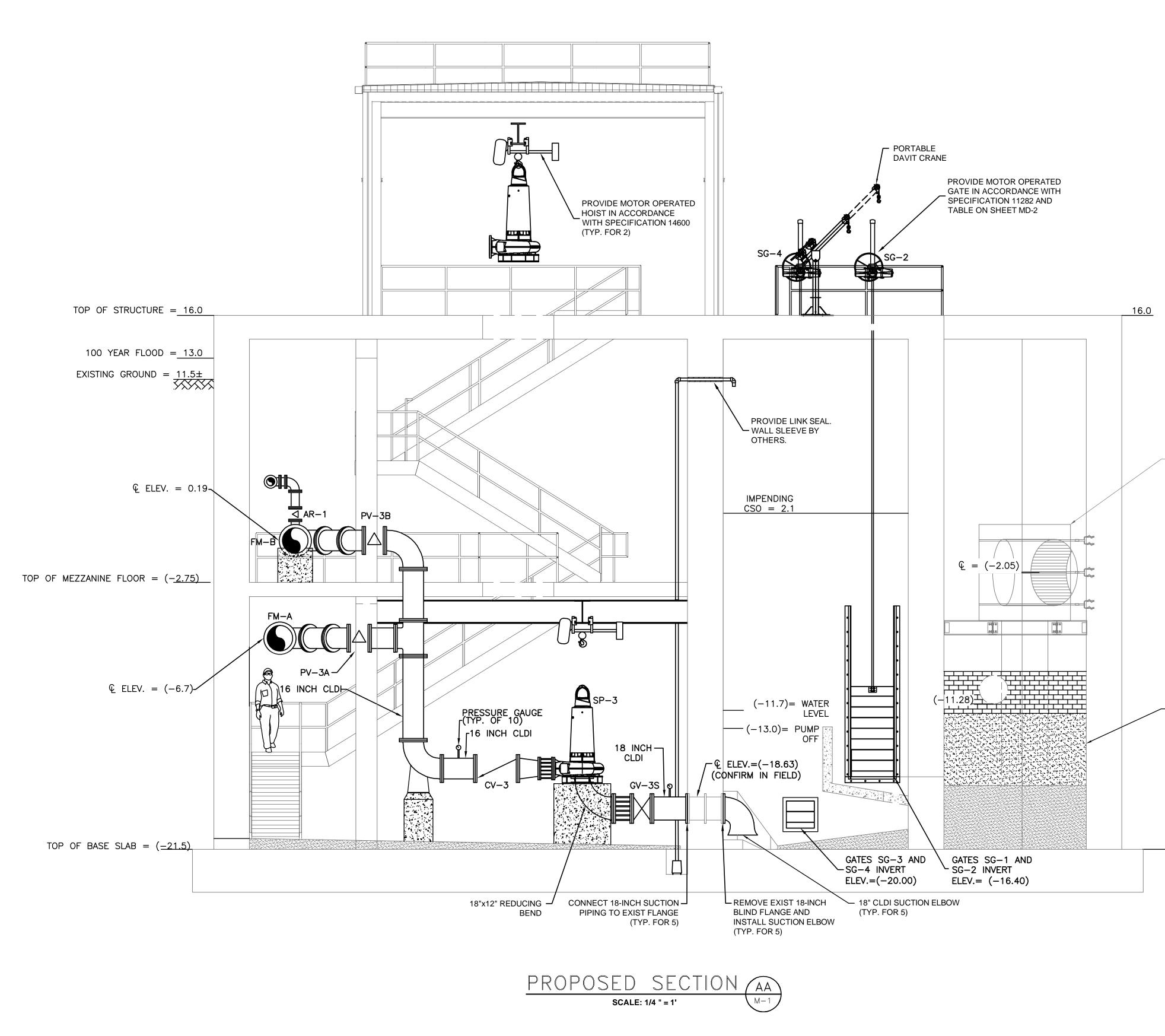


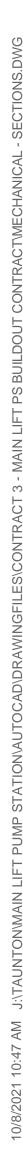












PREPARED BY	
BETA-Inc.com	A
www.detA-inc.com	
REGISTERED PROFESSIONAL	4
JOSEPH JOSEPH PEDERICO, JR. No. 30863 COISTERCONT SONAL ENGINE OLEFTT OLEFTTT OLEFTT OLEFTT OLEFTT OLEFTT)r.
SUBCONSULTANT	
PROJECT	
MAIN LIFT	
PUMP STATION	
IMPROVEMENTS	5
TAUNTON, MA	
SECTION A-A	
NO. REVISIONS	DATE
DRAWN BY: BM	
DESIGNED BY: AJG	
CHECKED BY: CC ISSUE DATE: 3/29/2021	
BETA JOB NO.: 5530	
SCALE	
AS SHOWN	
Not for Construct	ction
SHEET NO. M-4	

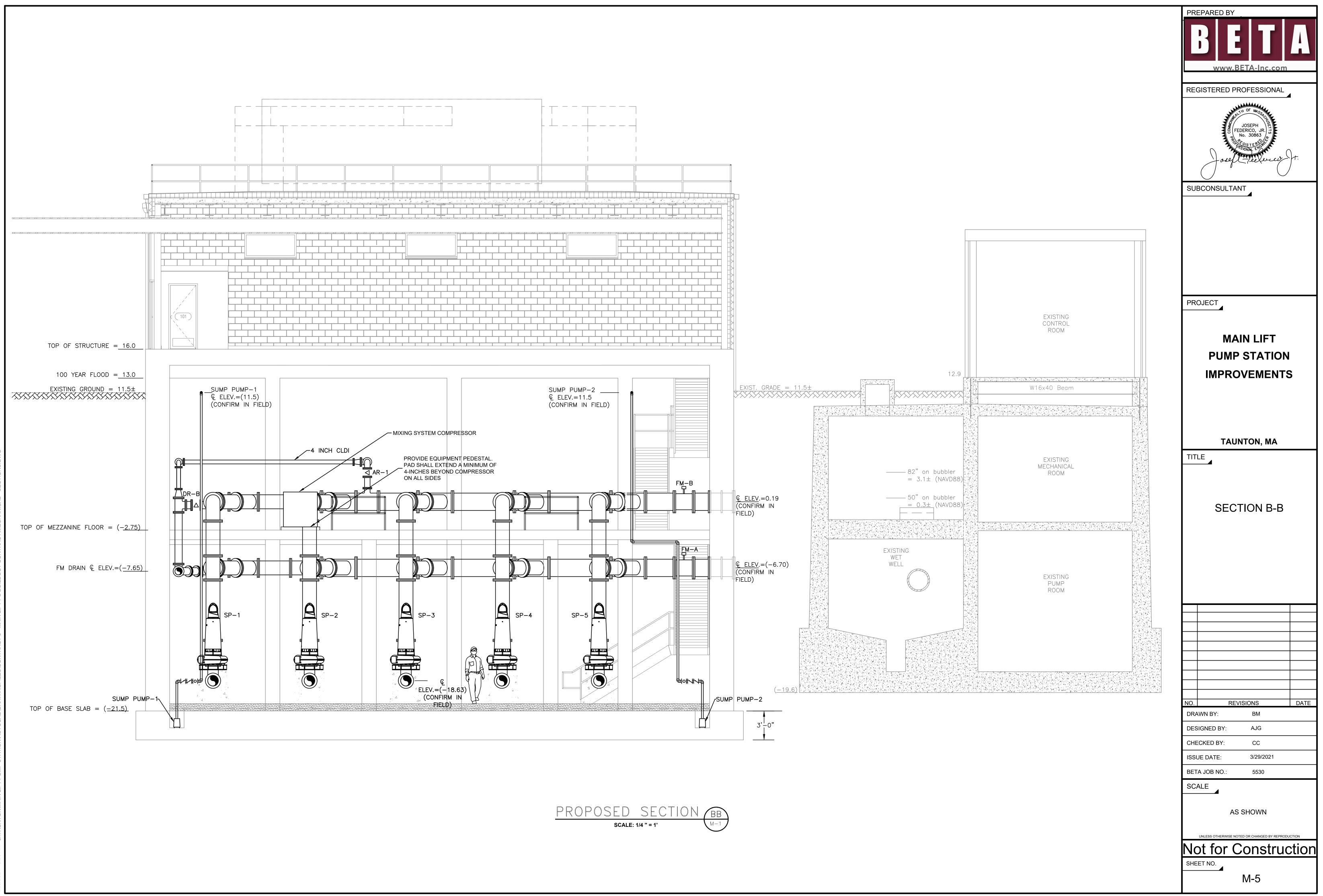
VORTEX DROP STRUCTURE ELEVATIONS					
ELEV.					
-4.05					
-9.00					
-11.28					
VARIES*					
-16.40					
-17.07					

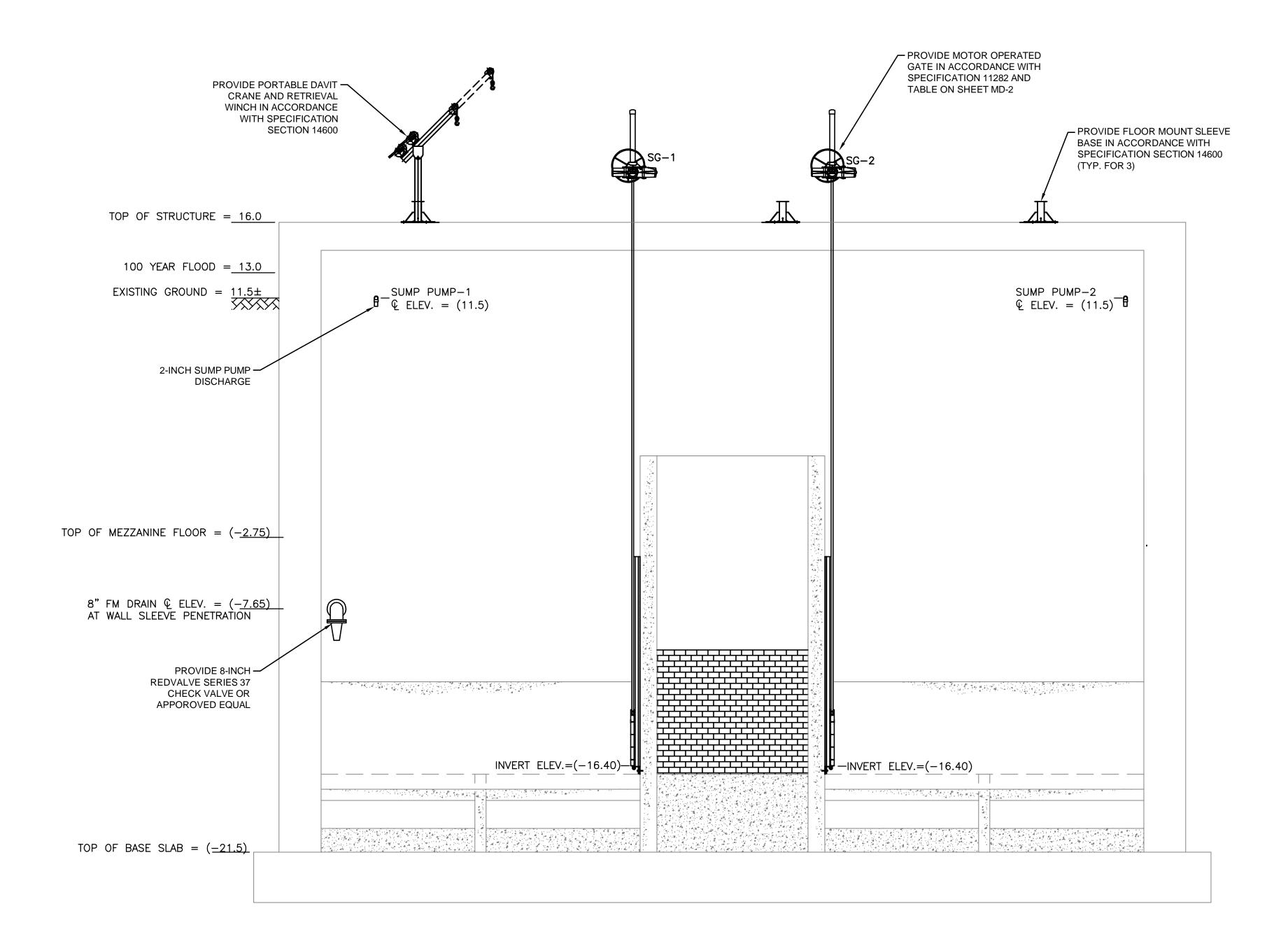
*PROVIDE MINIMUM 2 COURSES OF BRICK

EXIST. VORTEX DROP STRUCTURE

SEE SHEET M-2
 AND TABLE FOR
 ELEVATION
 INFORMATION

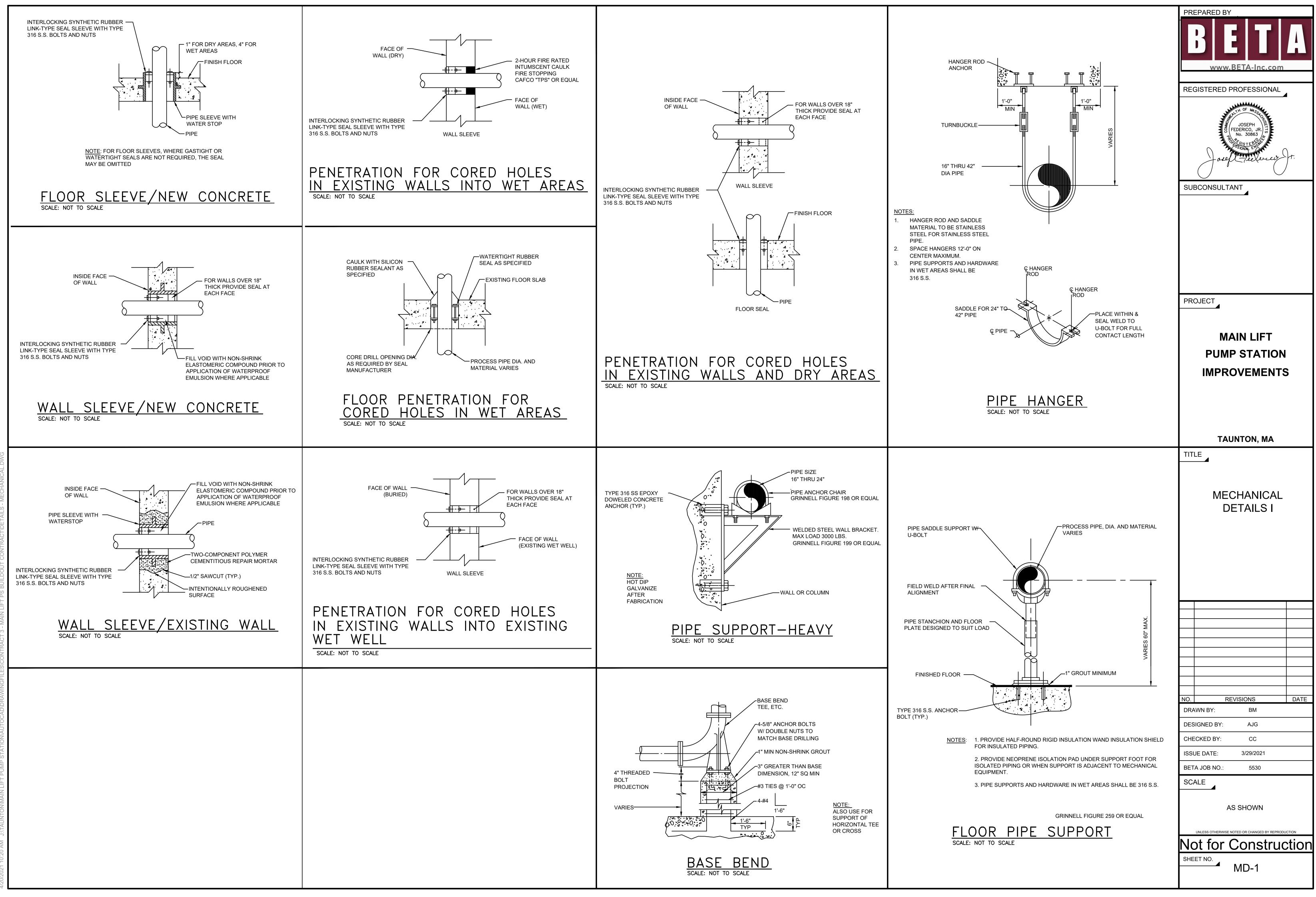
(-21.5)







PR	EPARED BY	
	BETA-Inc.com	m
RE	GISTERED PROFESSIONAI	
	JOSEPH FEDERICO, JR. No. 30863 ACTION ENGINE	Jr.
SU	BCONSULTANT	
DD	OJECT	
PR	OJECT	
	MAIN LIFT PUMP STATIO IMPROVEMEN	
	TAUNTON, MA	
тіт		
	SECTION C-C	
NO.	REVISIONS	DATE
	SIGNED BY: AJG	
	ECKED BY: CC	
ISS	UE DATE: 3/29/2021	
	TA JOB NO.: 5530	
	ALE AS SHOWN UNLESS OTHERWISE NOTED OR CHANGED BY REPP	RODUCTION
No	ot for Constru	
	ET NO.	
	M-6	

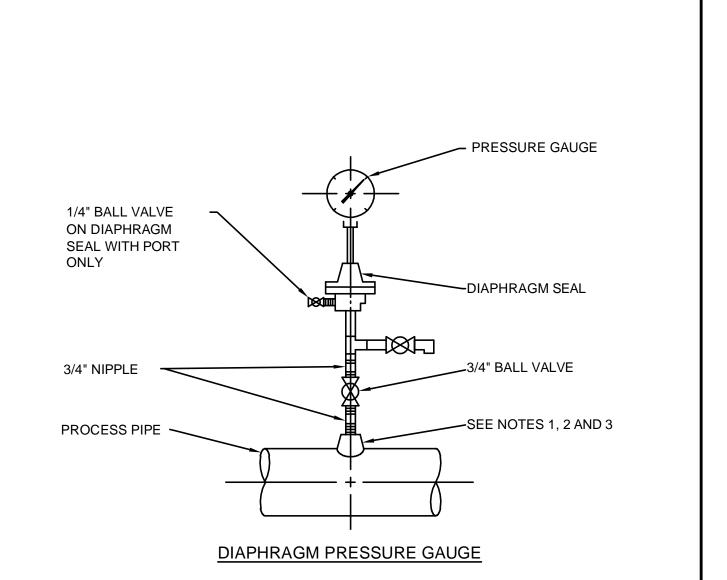


				PUM	IP SCHEDULE					
			CAPACITY		MOTOR				MINIMUM EFFICIENCY	SHUT OFF
PUMP TAG	PUMPS CONFIGURATION	NO. REQUIRED	FLOW, GPM	TDH (FT)	POWER	PUMP SPEED, (RPM)	DISCHARGE SIZE (IN.)	TYPE	AT DESIGN POINT (%)	HEAD, (FT)
SP-1 TO SP-5	SINGLE PUMP OPERATION	5	4,700 PER PUMP	59	115 HP	1,200	12-INCH	DRY PIT SUBMERSIBLE	74%	124

VALVE SCHEDULE PUMP STATION SITE									
VALVE TAG	NO. REQUIRED	VALVE TYPE	SIZE	MATERIAL	ACTUATOR	LOCATION	CONNECTION		
CV-1 TO CV-5	5	SWING CHECK	16	CAST IRON	WEIGHTED LEVER	BASEMENT LEVEL	FL X FL		
GV-1S TO GV-5S	5	GATE VALVE	18	DUCTILE IRON	MANUAL	BASEMENT LEVEL	FL X FL		
PV-1A TO PV-5A	5	PLUG VALVE	16	CAST IRON	MANUAL	BASEMENT LEVEL	FL X FL		
PV-1B TO PV-5B	5	PLUG VALVE	16	CAST IRON	MANUAL	MEZZANINE LEVEL	FL X FL		
AR-1	1	PLUG VALVE	6	CAST IRON	MANUAL	MEZZANINE LEVEL	FL X FL		
DR-A & DR-B	2	PLUG VALVE	8	CAST IRON	MANUAL	MEZZANINE & BASEMENT	FL X FL		

	GATE SCHEDULE								
GATE TAG	ТҮРЕ	CHANNEL WIDTH (IN)	GATE HEIGHT (IN)	GATE MATERIAL	MOUNTING TYPE	OPERATOR	OPENING INVERT ELEV. (FT)	OPERATING FLOOR ELEV. (FT)	
SG-1	SELF CONTAINED RISING STEM	36	72	316 SS	WALL MOUNTED	MOTOR	(-16.40)	16.0	
SG-2	SELF CONTAINED RISING STEM	36	72	316 SS	WALL MOUNTED	MOTOR	(-16.40)	16.0	
SG-3	SELF CONTAINED RISING STEM	24	24	316 SS	WALL MOUNTED	MOTOR	(-20.80)	16.0	
SG-4	SELF CONTAINED RISING STEM	24	24	316 SS	WALL MOUNTED	MOTOR	(-20.80)	16.0	
SG-5	SELF CONTAINED RISING STEM	24	24	316 SS	WALL MOUNTED	MOTOR	(-3.00)	16.0	

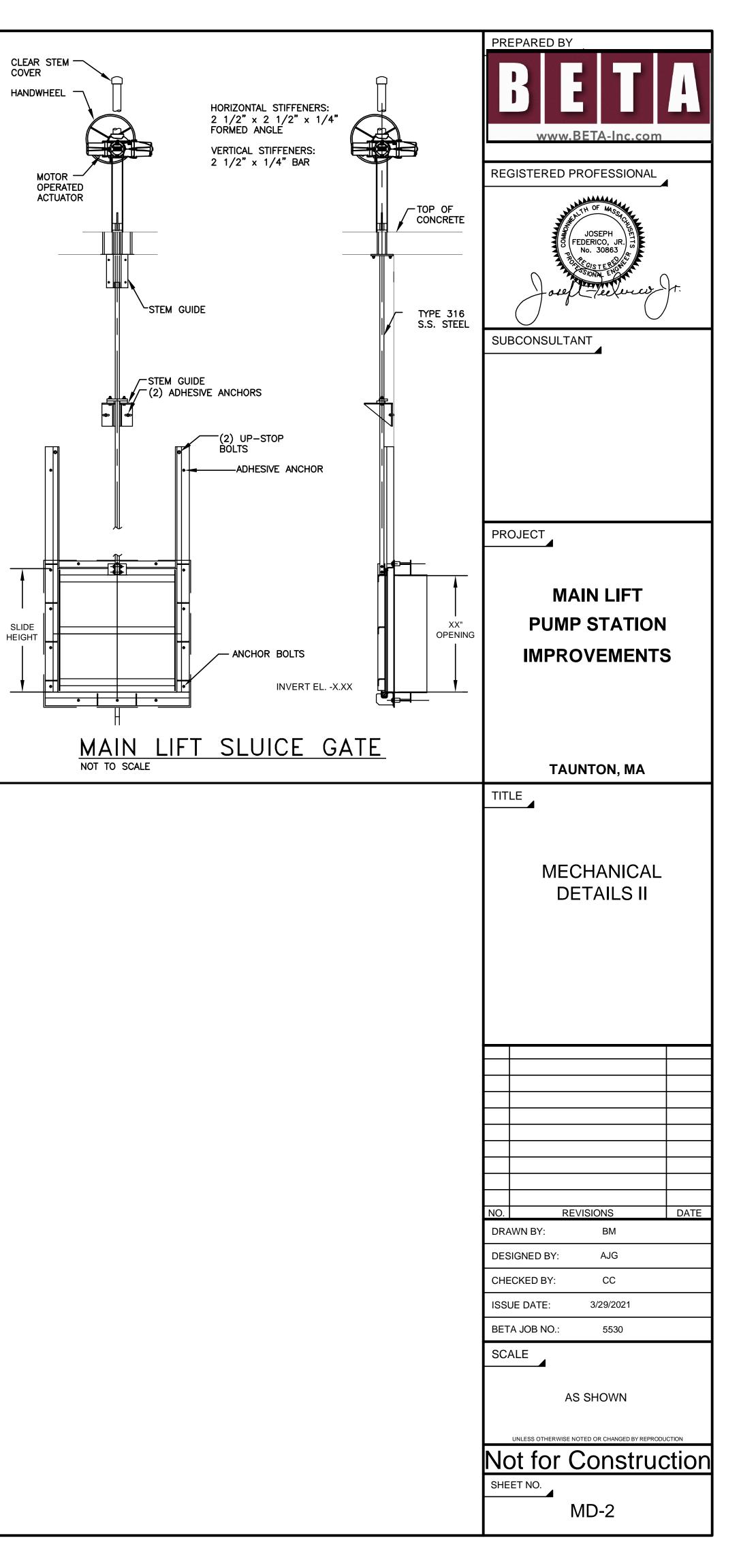




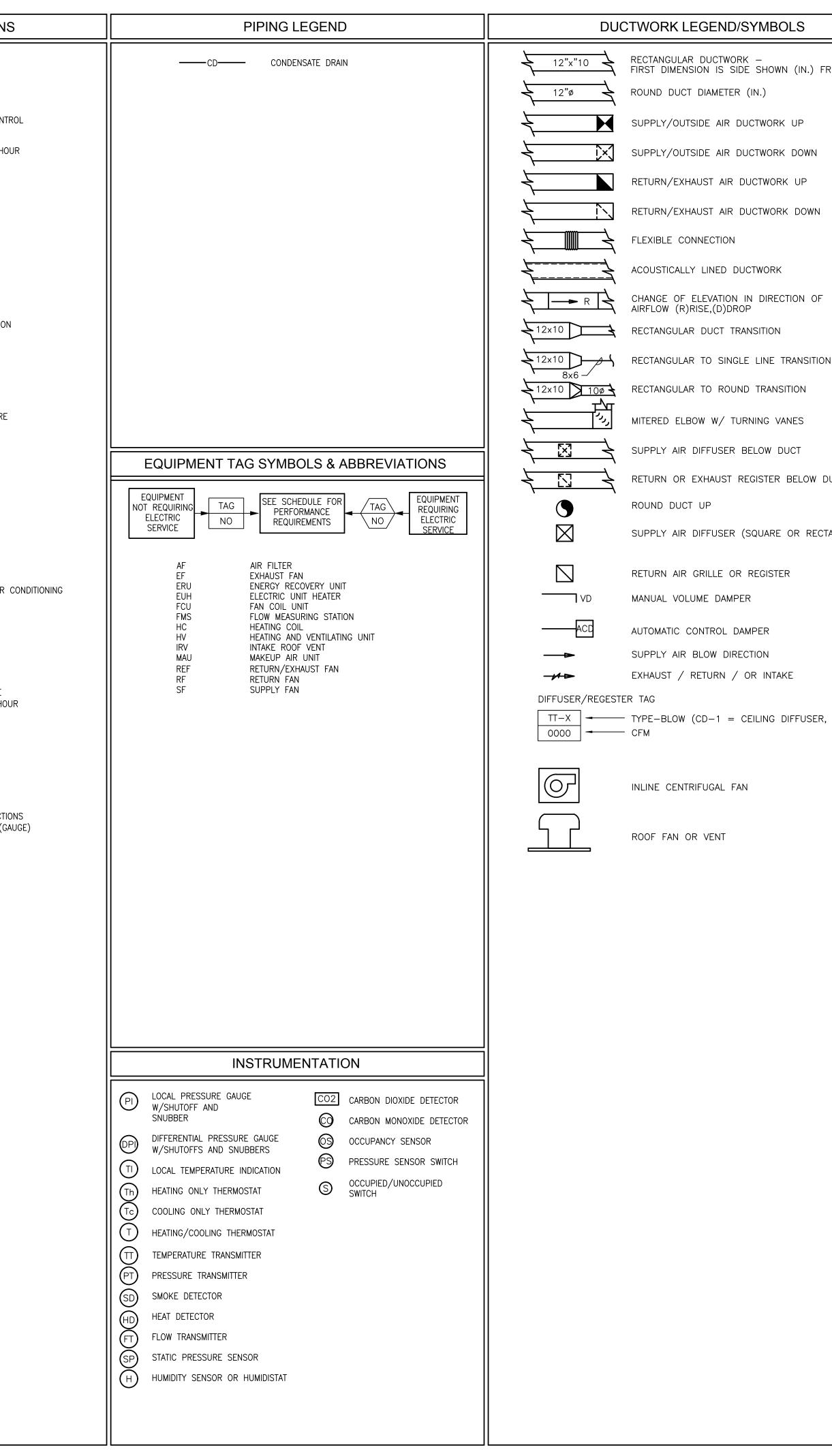
NOTES:

- FOR STEEL, GALVANIZED STEEL, AND PVC 2 1/2" AND SMALLER USE A BUSHING IN A TEE.
- 2. FOR DUCTILE IRON AND FIBERGLASS REINFORCED PLASTIC PIPE, ALL SIZES, USE PIPE SADDLE WITH BUSHING.
- 3. FOR STEEL AND STAINLESS STEEL PIPES 3" AND LARGER,
- AND PRESSURE VESSELS, USE THRED-O-LET AS SHOWN.
- 4. PROVIDE SNUBBER FOR POSITIVE DISPLACEMENT PUMP INSTALLATIONS.
- FOR WASTEWATER, SLUDGE, SCUM AND GRIT PIPING UTILIZE THE DIAPHRAGM PRESSURE GAUGE.

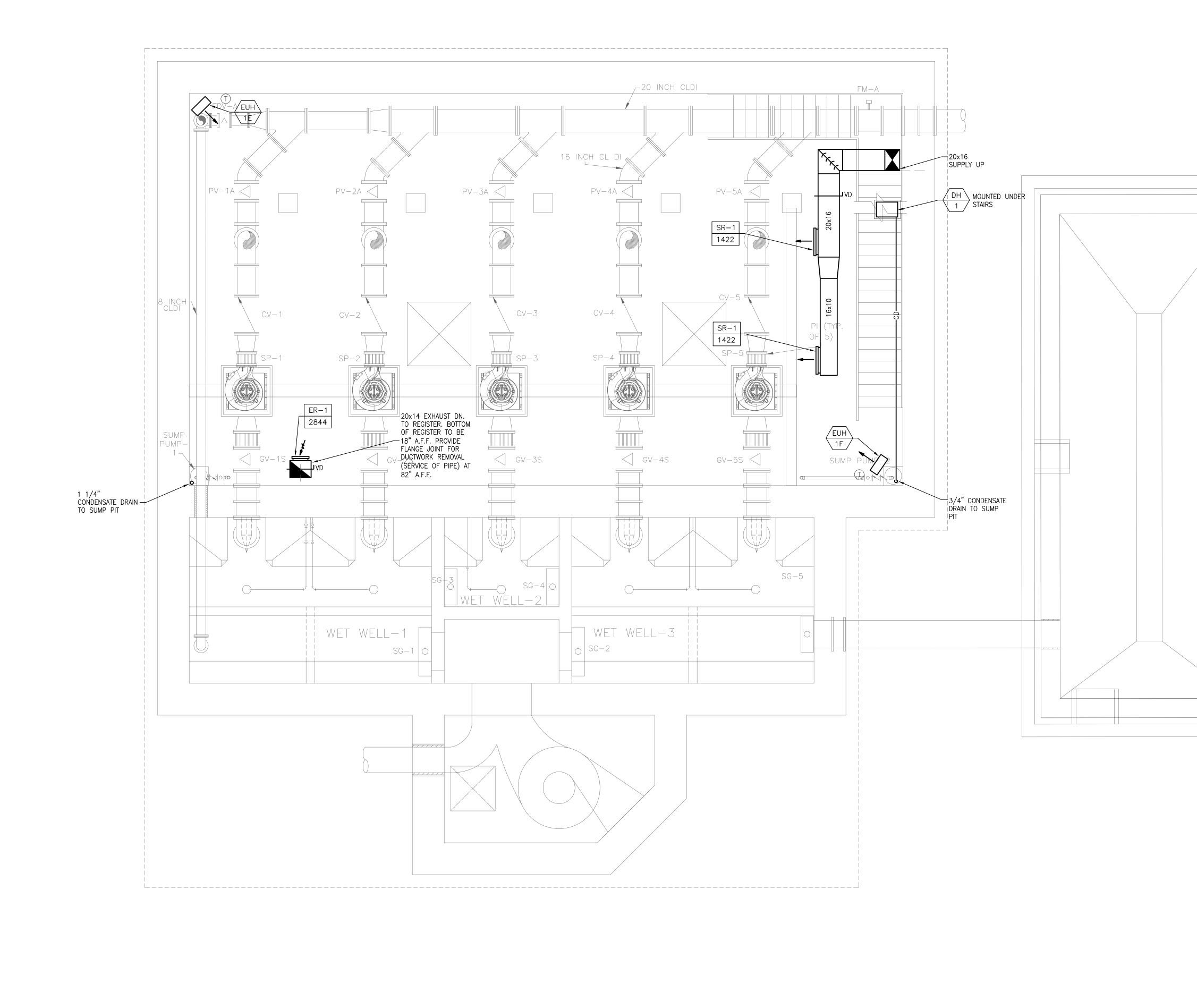
PRESSURE GAUGE MOUNTING DETAILS SCALE: NOT TO SCALE



	GENERAL NOTES		ABBREVIATION
1.	HVAC WORK IS INDICATED DIAGRAMMATICALLY. EXACT LOCATIONS OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS. EXISTING DUCTS, PIPING OR EQUIPMENT INTERFERING WITH OTHER INSTALLATIONS SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. EXACT LOCATIONS MUST HAVE THE APPROVAL OF THE ARCHITECT.	ACD AD AFF AHAP	AUTOMATIC CONTROL DAMPER ACCESS DOOR ABOVE FINISHED FLOOR AS HIGH AS POSSIBLE
	ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE ANY INSTALLATION IS MADE.	AP ARCH ATC	ACCESS PANEL ARCHITECT AUTOMATIC TEMPERATURE CONT
	ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH STATE CODES, MANUFACTURER'S APPROVED PUBLISHED LITERATURE, AND AUTHORITIES HAVING JURISDICTION.	BDD BTU BTUH	BACKDRAFT DAMPER BRITISH THERMAL UNIT BRITISH THERMAL UNIT PER HO
	ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY THAT LIGHTS, PIPING, AND	BOD CAP CD	BOTTOM OF DUCT CAPACITY CEILING DIFFUSER
	DUCTWORK DO NOT BLOCK ACCESS TO UNITS AND RELATED ACCESSORIES.	CFM CO	CUBIC FEET PER MINUTE CLEANOUT
6.	HVAC CONTRACTOR SHALL COORDINATE ALL WALL, CEILING, FLOOR, ROOF AND BEAM PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER.	CONT CP DIA	CONTROLLER CUT AND CAP DIAMETER
	ALL DUCT SIZES SHOWN ARE NET INSIDE CLEAR DIMENSIONS.	DB DC	DRY BULB TEMPERATURE DUST COLLECTOR
	PROVIDE VOLUME DAMPERS AT EVERY MAIN BRANCH TAKE—OFF AND AS INDICATED AND IN SUCH OTHER LOCATIONS WHERE REQUIRED TO PROPERLY BALANCE THE SYSTEM. DO NOT INSTALL VOLUME DAMPERS IN NECKS OF DIFFUSERS OR AT DISCHARGE OR INLET GRILLES IN DUCTWORK.	DDC DN DWG DX	DIRECT DIGITAL CONTROL DOWN DRAWING DIRECT EXPANSION COOLING
9.	PROVIDE INSTRUMENT TEST HOLES WITH CAPS IN AIR DISTRIBUTION SYSTEMS AS REQUIRED TO BALANCE SYSTEM.	EA EAT	EXHAUST AIR ENTERING AIR TEMPERATURE
	HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHEETMETAL TRANSITIONS AT AIR TERMINAL UNITS, FANS, COILS, AND OTHER SIMILAR HVAC EQUIPMENT.	EBB ECH ECON EF	ELECTRIC BASEBOARD RADIATION ELECTRIC CABINET HEATER AIR-SIDE ECONOMIZER EXHAUST FAN
11.	ALL OPEN ENDED DUCTS IN THE CEILING PLENUM SHALL BE UNOBSTRUCTED FOR A MINIMUM DISTANCE OF 24" FROM THE OPENING TO ALLOW FREE AIR FLOW AND SHALL HAVE 3/4" WIRE MESH SCREENING.	EFF ELV ER	EFFICIENCY ELEVATION EXHAUST REGISTER
12.	ALL MISCELLANEOUS STRUCTURAL SUPPORTS REQUIRED FOR HVAC EQUIPMENT INSTALLATION SHALL BE PROVIDED BY HVAC SUBCONTRACTOR.	ESP ETR EWT EXH	EXTERNAL STATIC PRESSURE EXISTING TO REMAIN ENTERING WATER TEMPERATURE EXHAUST
13.	EXACT LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS TO BE DETERMINED BY ARCHITECTURAL REFLECTED CEILING PLAN.	FA FD	FREE AREA FIRE DAMPER
14.	INSTALL ALL PIPING BELOW DUCTWORK UNLESS CLEARANCE CONDITION REQUIRES PIPING TO BE ABOVE.	FLA FOB FOT	FULL LOAD AMPS FLAT ON BOTTOM FLAT ON TOP
15.	EXACT ELEVATION FOR SIDE WALL DIFFUSERS, REGISTERS AND GRILLES SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION.	FPI FPM	FINS PER INCH FEET PER MINUTE
16.	UNLESS OTHERWISE NOTED, ALL PIPING RUNOUTS SHALL BE 3/4"	FT FTR GAL	FEET FINNED TUBE RADIATION GALLONS
17.	ALL EXPOSED EQUIPMENT (REGISTERS, UNIT HEATERS, ETC) SHALL HAVE COLORS SELECTED BY THE ARCHITECT, UNLESS NOTED OTHERWISE.	GALV GC	GALVANIZED GENERAL CONTRACTOR
18.	HVAC SUBCONTRACTOR SHALL BLANK OFF AND INSULATE ALL UNUSED LOUVER AREA.	GF GPM	GLYCOL FEED GALLONS PER MINUTE
19.	PITCH AIR INTAKE PLENUMS AND PROVIDE DRAIN TO NEAREST FLOOR DRAIN.	HP HVAC HGRH	HORSEPOWER HEATING, VENTILATING AND AIR HOT GAS REHEAT
20.	ALL REGISTERS, GRILLES AND DIFFUSERS LOCATED IN WALLS NEAR FLOOR SHALL BE HEAVY-DUTY TYPE DESIGNED TO WITHSTAND RUGGED IMPACT. REFER TO SCHEDULE. THE SECTION OF DUCTWORK BEHIND THE AIR DEVICE SHALL BE PAINTED FLAT BLACK.	HW HZ IN KE	HOT WATER HERTZ INCHES KITCHEN EXHAUST
21.	EXACT LOCATION OF THERMOSTAT TO BE COORDINATED WITH FINAL LOCATION OF WALL MOUNTED ARCHITECTURAL AND ELECTRICAL EQUIPMENT.	KE KW LAT LD	KICHEN EXHAUST KILOWATTS LEAVING AIR TEMPERATURE LINEAR DIFFUSER
22.	PROVIDE FLEXIBLE CONNECTOR ON INTAKES AND DISCHARGES OF ALL AIR HANDLING UNITS.	LF LWT	LINEAR FEET LEAVING WATER TEMPERATURE
	ROOF OPENINGS SHALL BE SIZED FROM APPROVED SHOP DRAWINGS. ALL DAMPER MOTORS SHALL BE 24 VOLT.	MBH MCC NC NIC NO	THOUSANDS OF BTU'S PER HOI MOTOR CONTROL CENTER NORMALLY CLOSED NOT IN CONTRACT NORMALLY OPEN
		NTS OA OAT OBD	NOT TO SCALE OUTSIDE AIR OUTSIDE AIR TEMPERATURE OPPOSED BLADE DAMPER
		OD OED POS	OUTSIDE DIAMETER OPEN ENDED DUCT PROVIDED UNDER OTHER SECTIO
		PSI PD PRV	POUNDS PER SQUARE INCH (G/ PRESSURE DROP PRESSURE REDUCING VALVE
		PG R	PROPYLENE GLYCOL RETURN
		RA RB RF	RETURN AIR REBALANCE RETURN/EXHAUST FAN
		RG RM	RETURN [´] GRILLE ROOM
		RPM RR S	REVOLUTIONS PER MINUTE RETURN REGISTER SUPPLY
		SA SA SAT	SUPPLY AIR SUPPLY AIR TEMPERATURE
		SF SP	SQUARE FEET, SUPPLY FAN STATIC PRESSURE
		SR SS STL	SUPPLY REGISTER STAINLESS STEEL STEEL
		TYP UC	TYPICAL UNDERCUT DOOR
		V VAV	VOLTS VARIABLE AIR VOLUME
		VD VFD W/	VOLUME DAMPER VARIABLE FREQUENCY DRIVE WITH
		W/O WB	WITHOUT WET BULB TEMPERATURE
		WG WMS	WATER GAUGE WIRE MESH SCREEN
		П	



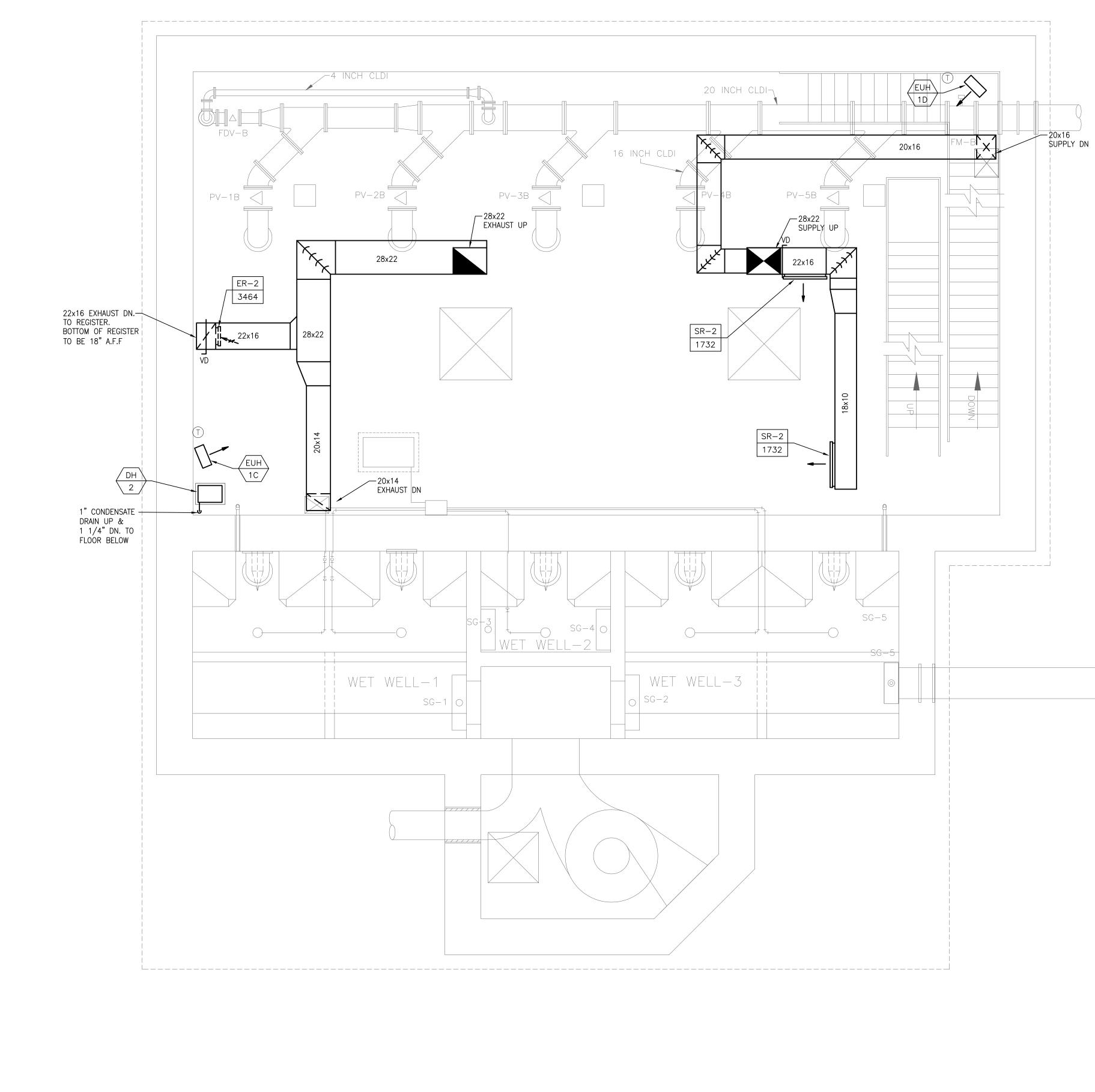
		PREPARED BY
REE AREA	SEQUENCE OF OPERATION 1. ERV-1: SEE SPECIFICATIONS. 2. ELECTRICAL UNIT HEATERS: EUH FAN AND HEATING COIL SHALL CYCLE FROM WALL MOUNTED THERMOSTAT TO MAINTAIN SPACE TEMPERATURE SETPOINT.	BETA-Inc.com
	 DEHUMIDIFIER: DEHUMIDIFIER SHALL CYCLE FROM INTERNAL HUMIDISTAT TO MAINTAIN A SPACE RELATIVE HUMIDITY OF 40%. HEAT PUMP: HEAT PUMP SHALL CYCLE FROM A WALL MOUNTED PROGRAMMABLE THERMOSTAT TO MAINTAIN ROOM SETPOINTS OF 65°F AND 85°F COOLING 	REGISTERED PROFESSIONAL
		SUBCONSULTANT
Ν		Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 221-9220 web: www.sar.com
DUCT		PROJECT
TANGULAR)		
		PUMP STATION
, 1 WAY BLOW)		TAUNTON, MA
		HVAC LEGEND & GENERAL NOTES
		NO. REVISIONS DATE NO. REVISIONS DATE DRAWN BY: RLB DESIGNED BY: RHB CHECKED BY: RHB ISSUE DATE: 02/26/21 BETA JOB NO.: 5530-000
		SCALE UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION For Review Only
		SHEET NO. H-1





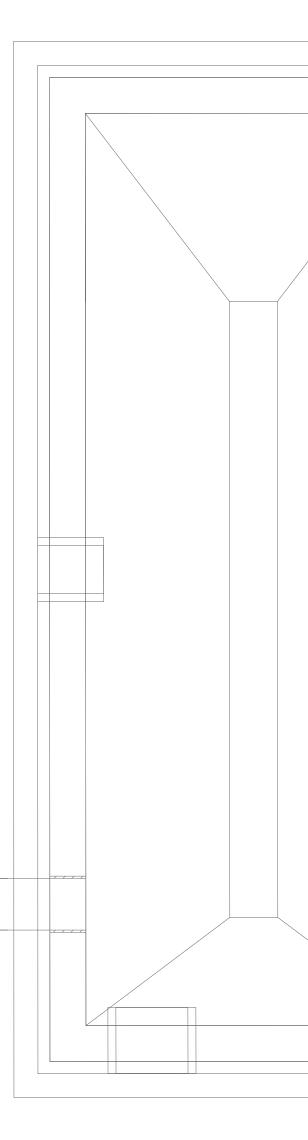
PLAN & SECTIONS - PROPOSED SCALE: 1/4 " = 1'

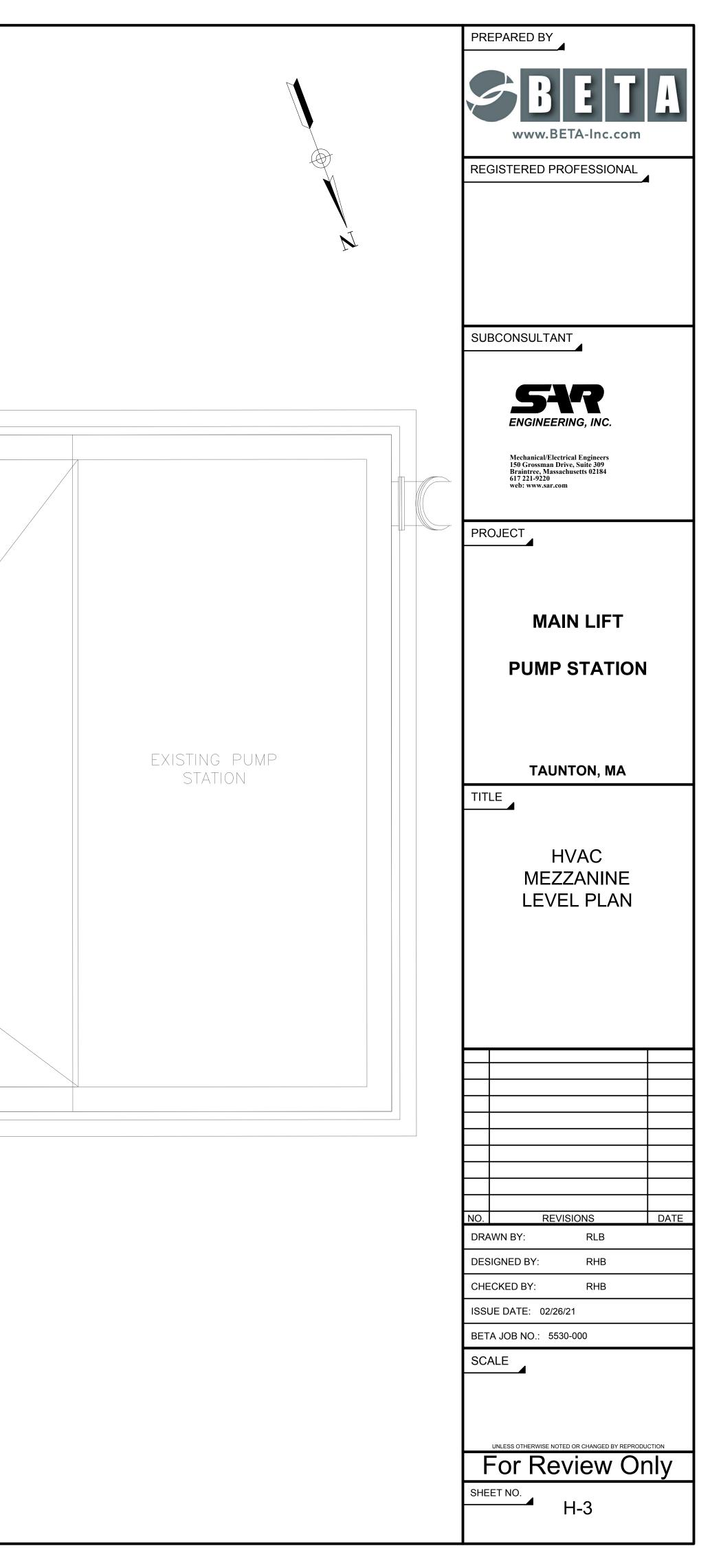
		PREPARED BY
		SBETA-Inc.com
		REGISTERED PROFESSIONAL
	N	
		SUBCONSULTANT
		SHR ENGINEERING, INC.
		Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 221-9220 web: www.sar.com
		PROJECT
		MAIN LIFT
		PUMP STATION
EXISTING PUMP STATION		TAUNTON, MA
		TITLE HVAC BASEMENT LEVEL PLAN
		NO. REVISIONS DATE
		DRAWN BY: RLB
		DESIGNED BY: RHB
		CHECKED BY: RHB ISSUE DATE: 02/26/21
		BETA JOB NO.: 5530-000
		SCALE
		UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION For Review Only
		SHEET NO. H-2

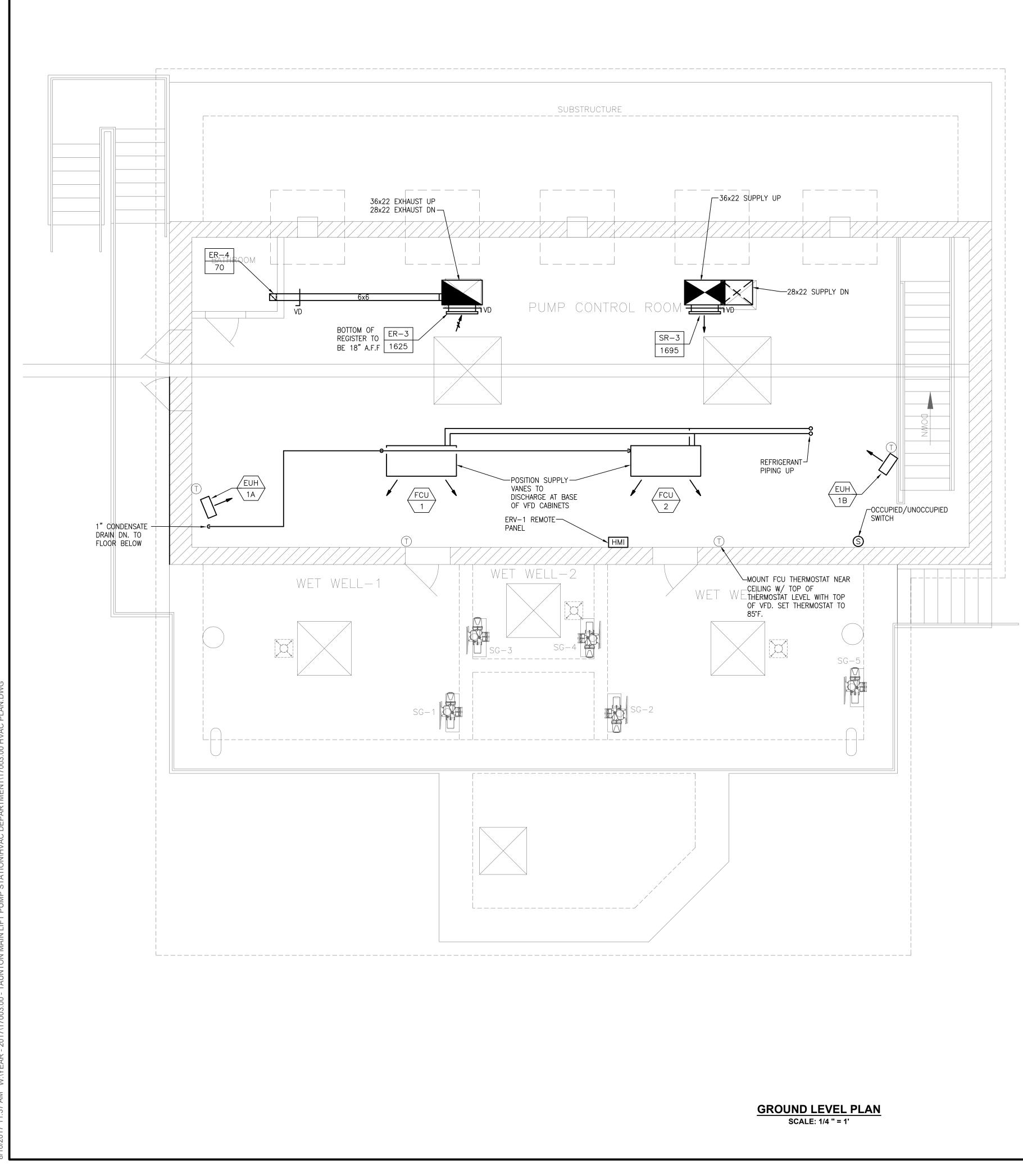


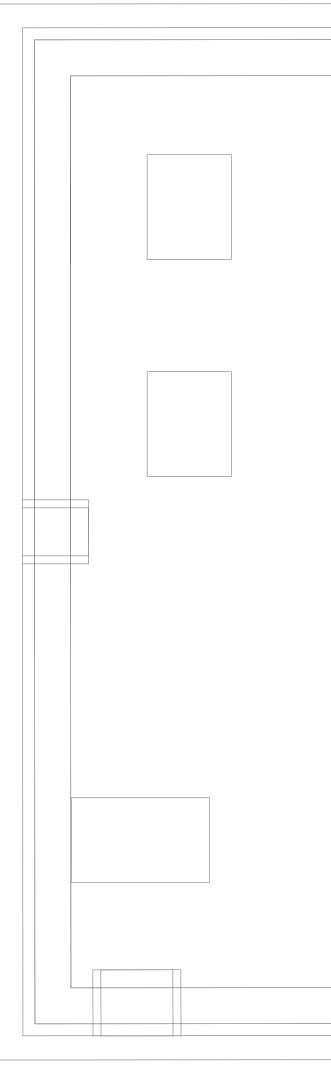
017 11:37 AM W:\YEAR - 2017\17003.00 - TAUNTON MAIN LIFT PUMP STATION\HVAC DEPARTMENT\17003.00 HVAC PLAN.DWG

MEZZANINE LEVEL PLAN SCALE: 1/4 " = 1'

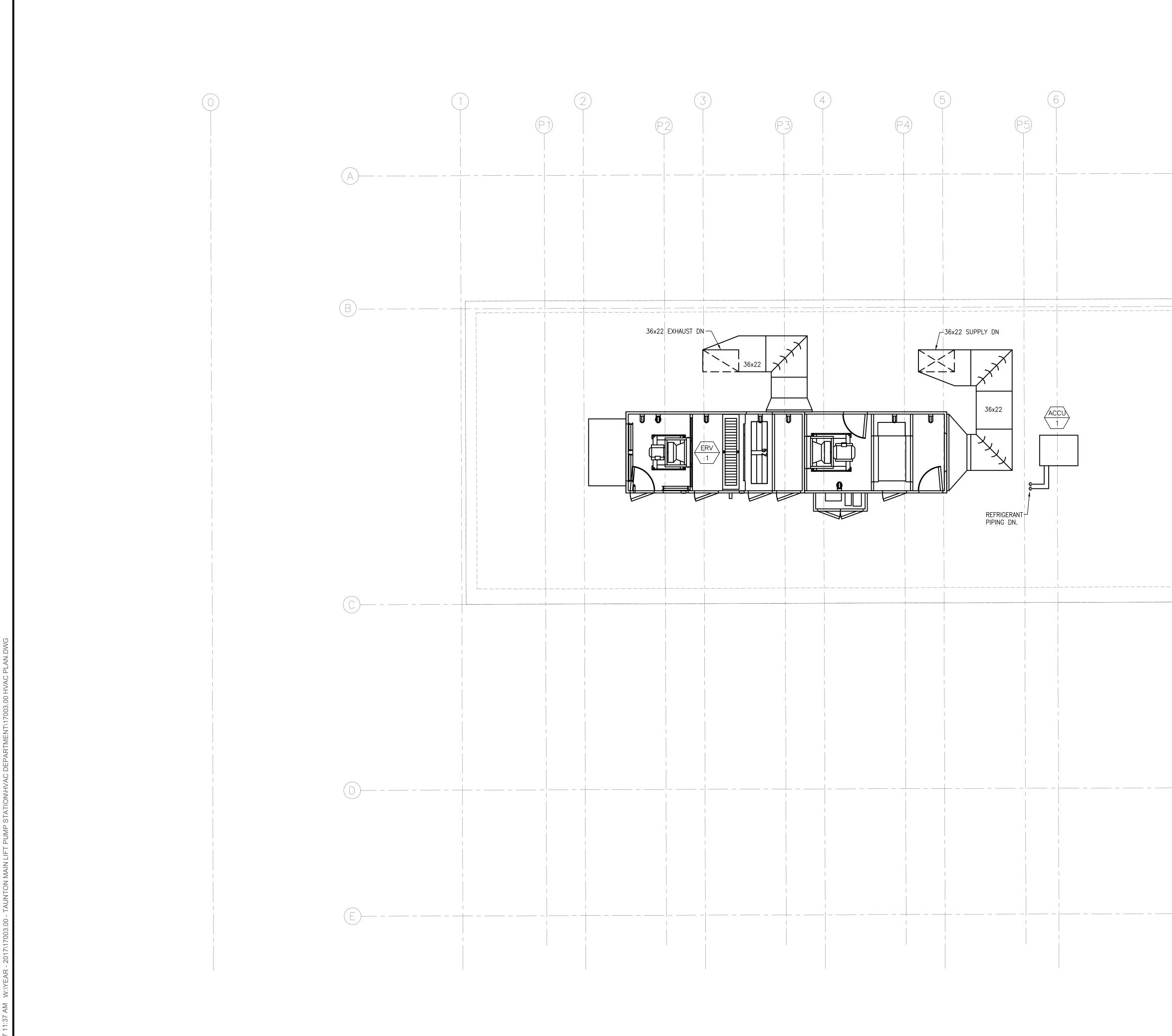






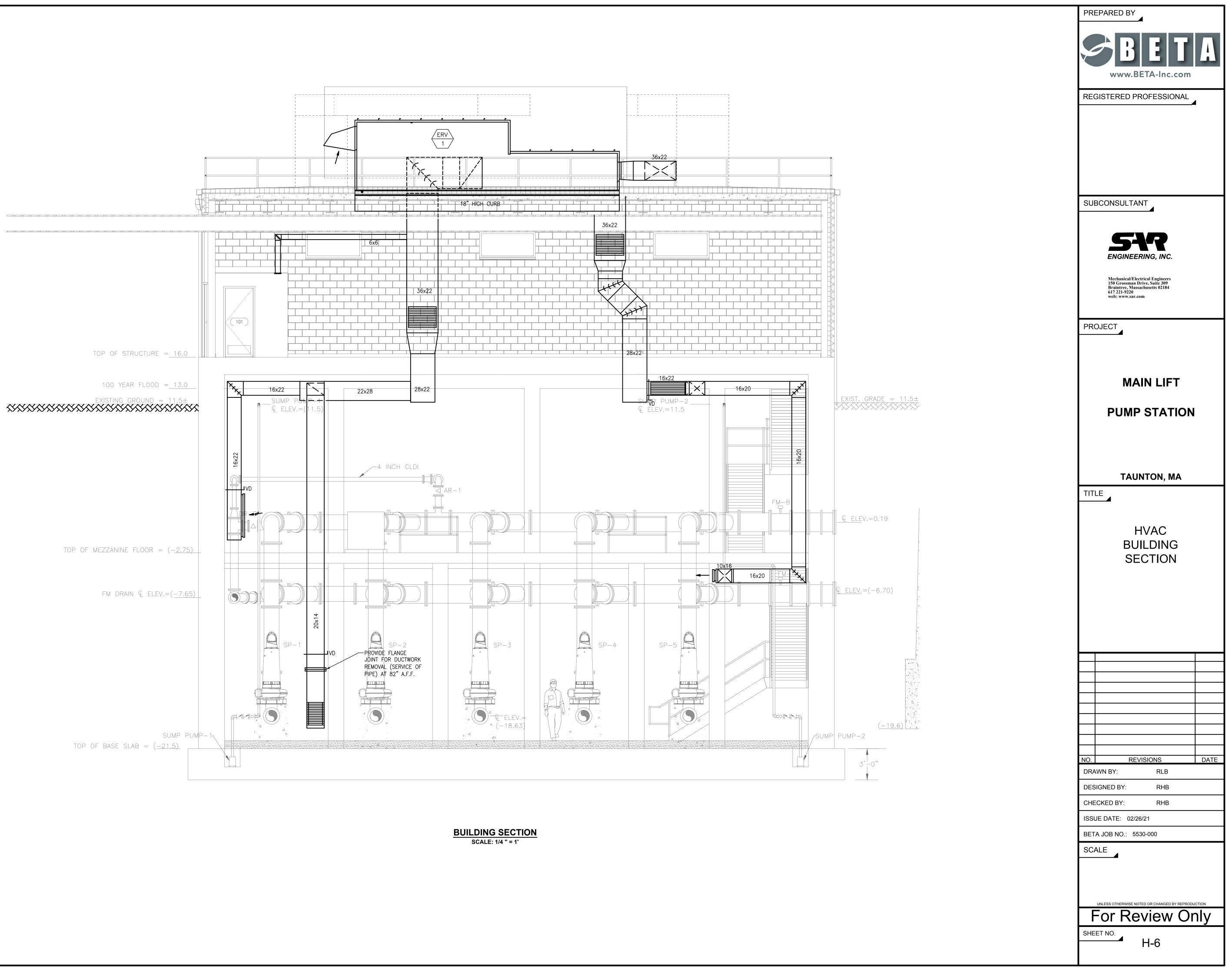


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EXISTING PUMP STATION	MAIN LIFT PUMP STATION TAUNTON, MA
	Intersection of the second sec



ROOF LEVEL PLAN SCALE: 1/4 " = 1'

PREPARED BY
REGISTERED PROFESSIONAL
SUBCONSULTANT
Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 221-9220 web: www.sar.com
PROJECT
MAIN LIFT PUMP STATION
TAUNTON, MA
NO. REVISIONS DATE
DRAWN BY: RLB
DESIGNED BY: RHB
CHECKED BY: RHB ISSUE DATE: 02/26/21
BETA JOB NO.: 5530-000
SCALE UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION For Review Only
SHEET NO. H-5



ERV -

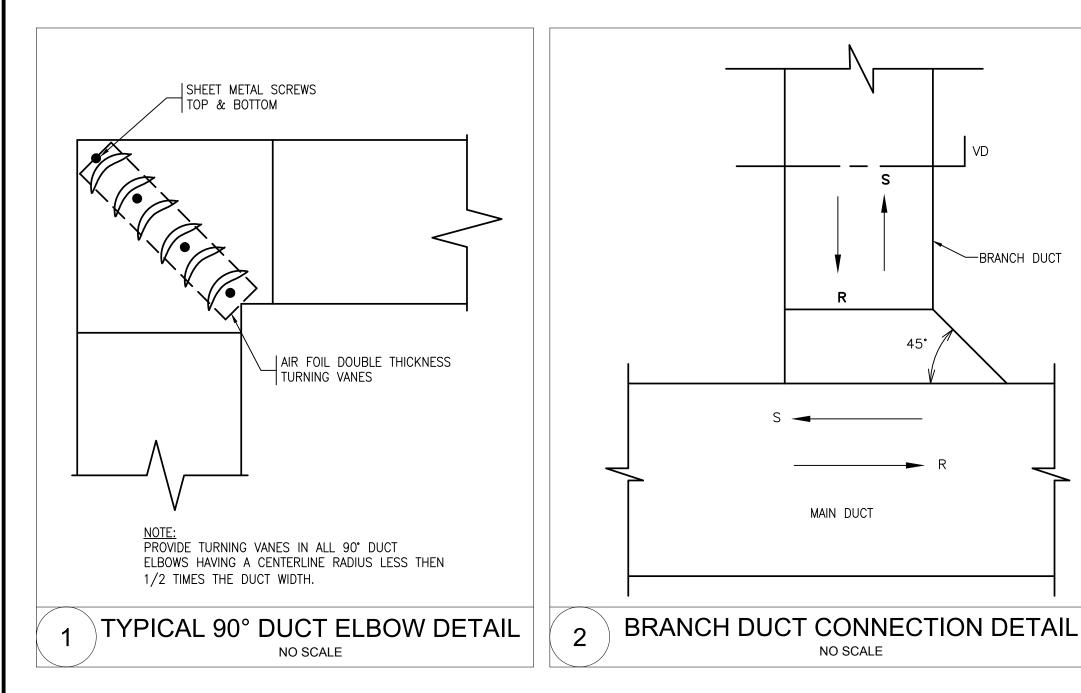
CUSTOM ENERGY RECOVERY UNIT SCHEDULE

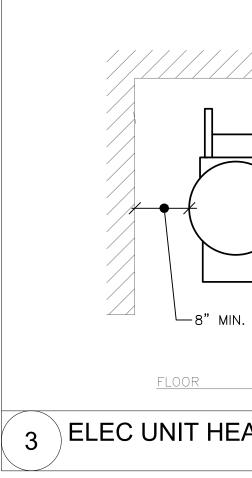
			SUPP	LY AIR PERFORM	ANCE		RETU	RN/EXHAUST	AIR PERF	ORMANCE		WINTER C	CONDITIONS SIGN	G	AS HEATER	DATA		ELE	CTRICAL	DATA					
TAG NO.	LOCATION	SUPPLY IN O CFM (A IN ESP	TSP FAN (IN WC) RPM		MOTOR SIZE HP		.P. TOTAL			SIZE	OUTDOOR B 'F WB 'F	INDOOR	GAS P	RESS. MBH WG. INPUT	мвн	LAT MC		⊳ v		HZ WEIG	HT M/ S	IANUFACTURE IODEL NUMBI	ER BER	REMARKS
ERV-1	ROOF	8,000 8	,000 1.0	4.0 1750	-	10.0	8,250 0.	.8 3.0	1750	-	10 5	5.0 3.1	65 5	D NAT	7" 350	275			480	3	60 6,54	10	HAAKON —		
EUH			E	LECTRIC	HEATER	R SCHEI	DULE										VF	RF HE	EAT	⊃UN	IP (OU	TDOOR I	UNIT)	SCHED	ULE
		TAG NO.		(FAN DATA	н нz	MANUFAC MODEL NI	TURER JMBER		REMA	RKS					JTDOOR UN	IT							REMARKS
											SEE SPEC			TAG	LOCATIO	N MFC MOD	G'R. & EL NO.	HEAT C MBH N	:OOL E MBH V/	LEC. PH/HZ	No. OF ELE FEEDERS	C. MCA		MOP	
EUH-1	A, EUH-1B,	EUH-1C, EUH	–1D, EUH–1E &	EUH-TE	5.0 700	0 480 3	3 60	QMARK QW	D05034		FOR ACCI	ESSORIES		ACCU-1	ROOF	- YVAł	YORK IP060B21S	63.9 5	9.9 208	8/1/60	1	31		40	FURNISH WITH 18" HIGH STAND
ID CFM	DIFF	USER, I	REGISTE	R & GRI	LE SCH	IEDULE	Ξ																		
TAG	MODULE	NECK SIZE (IN)		MANUF	ACTURER		5514546						V	RF (IN	DOOF	r unit	⁻) SCF	IEDU	JLE						
NO.	SIZE (IN)	SIZE	SERVICE																						
		(IN)		MODEL	NUMBER		REMARKS					HP	FAN COIL UN	IIT								DEMARKS			
SR-1	26x16	(IN) 24×14	SUPPLY		NUMBER 300FL		KEMARKS		TAG		AREA SERVED		FAN COIL UN MFG'R. & MODEL NO.		HEAT COOL MBH MBH	CFM	ELEC. V/PH/HZ	MCA MC)00R UI	NIT	REMARKS	;		
SR-1 SR-2			SUPPLY SUPPLY	TITUS			REMARKS		TAG FCU-		AREA SERVED VFD AREA		MFG'R. & MODEL NO. YORK	TYPE UNIT	HEAT COOL MBH MBH 31.9 30.0		ELEC. //PH/HZ 208/1/60	MCA MC)P	000R UN 000R UN		UNIT TO BE MOI	DUNTED		
	26x16	24x14		TITUS	300FL		REMARKS			-1	SERVED	<u>м</u> А ур	MFG'R. & MODEL NO. YORK ICS030B21S	CEILING SUSPEND.		1,059 2)P 5 /				DUNTED PUCTURE DUNTED		
SR-2	26x16 38x14	24x14 36x12	SUPPLY	TITUS	300FL 300FL				FCU-	-1	SERVED	<u>м</u> А ур	MFG'R. & MODEL NO. YORK ICS030B21S	TYPE UNIT CEILING SUSPEND.	31.9 30.0	1,059 2	208/1/60	1.1 1)P 5 /	CCU-1	NIT	UNIT TO BE MOU 20" BELOW STRU UNIT TO BE MOU	DUNTED PUCTURE DUNTED		
SR-2 SR-3	26x16 38x14 26x16	24×14 36×12 24×14	SUPPLY	TITUS TITUS TITUS TITUS	300FL 300FL 300FL				FCU-	-1	SERVED	<u>м</u> А ур	MFG'R. & MODEL NO. YORK ICS030B21S	TYPE UNIT CEILING SUSPEND.	31.9 30.0	1,059 2	208/1/60	1.1 1)P 5 /	CCU-1		UNIT TO BE MOU 20" BELOW STRU UNIT TO BE MOU	DUNTED PUCTURE DUNTED		
SR-2 SR-3 ER-1	26x16 38x14 26x16 16x26	24×14 36×12 24×14 14×24	SUPPLY SUPPLY EXHAUST	TITUS TITUS TITUS TITUS TITUS	300FL 300FL 300FL 350FL				FCU-	-1	SERVED	<u>м</u> А ур	MFG'R. & MODEL NO. YORK ICS030B21S	TYPE UNIT CEILING SUSPEND.	31.9 30.0	1,059 2	208/1/60	1.1 1)P 5 /	CCU-1	NIT	UNIT TO BE MOU 20" BELOW STRU UNIT TO BE MOU	DUNTED PUCTURE DUNTED		

DEHUMIDIFIER SCHEDULE ELECTRICAL DATA WEIGHT LB TAG NO. EXTRACT PPD V PH HZ MANUFACTURER MODEL NUMBER NOTES LOCATION PROVIDE WALL BRACKET AND COND. PUMP EBAC IND. PRODUCTS MODEL CS60 BASEMENT LEVEL 56 120 1 60 DH-1 63 PROVIDE WALL BRACKET AND COND. PUMP EBAC IND. PRODUCTS MODEL CS60 56 120 1 60 DH-2 MEZZANINE LEVEL 63

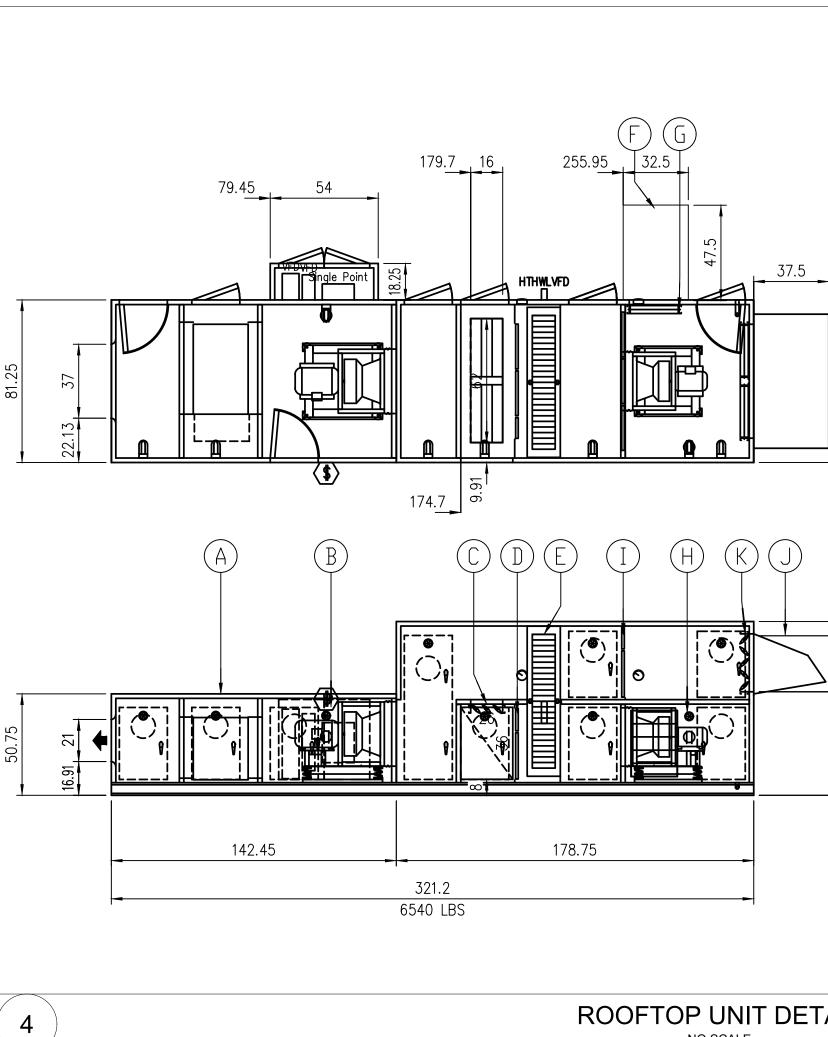
MOUNT DEHUMIDIFIER ON WALL 18" A.F.F.







NO SCALE



			PREPARED BY SBETA-Inc.com
			REGISTERED PROFESSIONAL
			SUBCONSULTANT
	CTORY WALL MOUNTED ACKET 9" MIN.		SEAGE ENGINEERING, INC. Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 221-9220 web: www.sar.com
	*		
	22" —ELECTRIC UNIT HEATER		PROJECT
]`	84" MIN.		MAIN LIFT
ATER			PUMP STATION
NO SC/			
			TAUNTON, MA
	K OA DAMPER : OPPOSED BLADES MAKE : T.A. Morrison 1000 SIZE : 57 X 29 UNIT MOUNTING	A GAS FIRED FURNACE, 10:1 TURNDOWN MAKE : HEATCO MODEL : HDA350XX44B08MB FUEL PRESSURE : 0.500 psi	HVAC
	The unit is designed to be mounted on a roof mounted. Note : Calculated unit weights are shipping weights and do not reflect operating conditions, items which are field installed or ship loose.	$\begin{array}{c} \text{INPUT : 350 MBH} & \text{OUTPUT : 280 MBH} \\ \hline \textbf{B} & \text{Service : SF} \\ \text{Fan: 22'' EPQN SW, Arrangement-4} \\ \hline \textbf{Class: 2 Max RPM: 2403} \\ & \text{OP. PT1} \\ \text{A.F.(cfm): 8000} \\ \text{T.S.P.(in wc): 4} \\ \text{E.S.P.(in wc): 1} \\ \text{RPM: 1000} \\ \text{MOTOR : 20 HP, ODP Prem-Eff, 460/3/60} \\ \text{RPM : 1750 (GROUNDED SHAFT)} \\ \text{ISOLATORS : OS DEF : 2 in} \\ \text{FEG80 } & \eta_{\text{pt}: 73\%} & \eta_{\text{t}} / & \eta_{\text{pt}: 92\%} \\ \hline \textbf{C} \\ \begin{array}{c} \text{RECIRC DAMPER : PARALLEL BLADES} \\ \text{MAKE : T.A. Morrison 1000} \\ \text{SIZE : 64 X 18} \\ \end{array}$	SCHEDULE, DETAILS & SECTION
67		D RA FILTERS : LIFT-OUT UPSTREAM VELOCITY : 536 FPM	
		TYPE : 2" (MERV 8) Farr 30/30 SIZES : 3 @ 24 X 12 2 @ 24 X 24	
7.13		E HEAT WHEEL TYPE: SG AMERICA HPC-1700T20 VOLTAGE : 460/3/60 VARIABLE SPEED MOTOR : 0.5 HP	
		F EA HOOD G EA DAMPER : PARALLEL BLADES MAKE : T.A. Morrison 1000 SIZE : 25 X 35	NO. REVISIONS DATE
		H) Service : EF Fan: 20" EPQN SW, Arrangement-4	DRAWN BY: RLB
4		Class: 2 Max RPM: 2674 OP. PT1	DESIGNED BY: RHB
8 86.94		A.F.(cfm): 8250 T.S.P.(in wc): 3	CHECKED BY: RHB
51.78		E.S.P.(in wc)0.8 RPM: 1666	ISSUE DATE: 02/26/21
		MOTOR : 10 HP, ODP Prem-Eff, 460/3/60 RPM :1750 (GROUNDED SHAFT)	BETA JOB NO.: 5530-000
		ISOLATORS : OS DEF : 2 in FEG75 η_{pt} : 70% η_t / η_{pt} : 80%	SCALE
		I FILTERS : LIFT-OUT UPSTREAM VELOCITY : 444 FPM	
		VELOCITI : 444 FFM TYPE : 2" (MERV 8) Farr 30/30 SIZES : 3 @ 24 X 24 J OA HOOD	UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION
		TYPE : 2" (MERV 8) Farr 30/30 SIZES : 3 @ 24 X 24 3 @ 24 X 12	
AIL		TYPE : 2" (MERV 8) Farr 30/30 SIZES : 3 @ 24 X 24 3 @ 24 X 12	UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION For Review Only SHEET NO. H-7

PLUM	BING FIXT	JRE SCHE	DULE								PLUMBING NOTES	
ESIGNATION	FIXTURE DE	SCRIPTION		CO CW	NNECTION	SIZE S/W	V REN	IARKS			1. THE WORK COVERED CONSISTS OF FURNISHING ALL LABOR AND MATERIALS COMPLETE AND READY FOR CONTINUOUS OPERATION, THE PLUMBING SYS EQUIPMENT FOR THIS PROJECT.	
P-1 P-2	WATER CLOSET –			1"	-	4" 2"	2" –				2. ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE PLUMBING SUB- TESTING PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE LOCAL FUEL GAS AND PLUMBING CODES, ALL LOCAL CODES AND REGUL	E STATE BUILDING CODE, LATIONS, NATIONAL FIRE
P-2 LAVATORY – WALL HUNG 1/2" 1/2" 2" 2" – NOTES: 1. ALL FINAL CONNECTIONS TO CASEWORK SINKS AND EQUIPMENT SHALL BE BY THE PLUMBING CONTRACTOR. 2. ALL EXPOSED VALVES, PIPING AND FITTINGS SHALL BE CHROME PLATED. 3. PLUMBING CONTRACTOR SHALL PROVIDE EACH CONNECTION TO EACH SINK OR PIECE OF EQUIPMENT ITS OWN INDIVIDUAL SHUTOFF VALVE.											 PROTECTION ASSOCIATION, INSURANCE REGULATIONS AND REQUIREMENTS GOVE 3. ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL OF THE WORK OF THE SPECIFICATION INCLUDING ALL FEES OR EXPENSES IN 4. ALL PRODUCTS USED AS PART OF THE POTABLE WATER SYSTEM WHERE THE TO DELIVER OR CONVEY POTABLE WATER FOR HUMAN CONSUMPTION SHA 	- BE OBTAINED AS PART CURRED. E INTENDED PURPOSE IS
JBBLERS, S SSEMBLE AN	URED CASEWORK CONT INK WASTES AND TAIL ID INSTALL ALL PLUMB	PIECES. PLUMBING CO	ONTRACTOR SHAI NCLUDING TRIM,	LL PROVIDE FAUCETS, E	FULL SIZE BUBBLERS,	E TRAP AN	D EXTENSION.	PLUMBING CO	NTRACTOR SHAL	LL	CONFORM TO THE LATEST "LEAD FREE" LAW. 5. WHERE WATER PIPING IS SHOWN DROPPING INTO PLUMBING CHASES WITH S SHALL BE CARRIED FULL LENGTH THROUGH THE CHASE. REFER TO PLUME ON THIS DRAWING FOR INDIVIDUAL FIXTURE CONNECTION SIZES.	SIZES NOTED, THAT SIZE BING FIXTURE SCHEDULE
I.D.	MANUFACTURER	MODEL	GALS.	REC G.P.H.	OVERY		w voi	.TS PHAS	E HZ	REMA	 6. UNLESS OTHERWISE NOTED, ALL HORIZONTAL DRAINAGE PIPING WHICH IS 3' SHALL PITCH OF NOT LESS THAN 1/4" PER FOOT AND ALL HORIZONTAL DR 4" OR LARGER IN DIAMETER SHALL PITCH OF NOT LESS THAN 1/8" PER FO 7. PROVIDE ALL FLOOR CLEANOUTS WITH HUB AND SPIGOT; LEAD AND OAKUM 	AINAGE PIPING WHICH IS OT.
1–1 R	HEEM	EGSP-10	10	12	100		3 48	0 1		_	TO AND INCLUDING CONNECTION TO SANITARY DRAIN. 8. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND HEIGHT OF ALL	PLUMBING FIXTURES.
SHO	CK ABSORE	BER SCHEE	DULE								 9. MISCELLANEOUS DISCREPANCIES OR OMISSIONS WHICH MIGHT APPEAR SPECIFICATIONS WILL NOT RELIEVE THE PLUMBING SUB-CONTRACTOR OF COD 10. ALL FLOOR DRAINS SHALL BE PROVIDED WITH A TRAP PRIMER CONNECTION PROVIDE ALL ASSOCIATED EQUIPMENT NECESSARY TO PROVIDE A COMPLETE FLECTRONICULAR OPERATED PRIMING MANIFED TO ALL ASSOCIATED PRIMER CONNECTION 	DE COMPLIANCE. DN. CONTRACTOR SHALL SYSTEM INCLUDING AN
	PDI RATING SY	MBOL				A	В	С	D	E	ELECTRONICALLY OPERATED PRIMING MANIFOLD AND ALL ASSOCIATED PIPING I 11. PROVIDE CLEANOUTS AT ALL CHANGE OF DIRECTIONS FOR SANITARY/WASTE F	
PREC	ISION PLUMBING PROD	UCTS OR EQUAL			SC	C—500	SC-750	SC-1000	SC-1250	SC-1	12. PROVIDE WALL CLEANOUTS WITH ACCESS PANELS AT ALL SANITARY/WASTE PIL CHASES OR WALLS.	PING WITHIN PIPE
WATT	S REGULATOR COMPAN	Y OR EQUAL			07	750030	0750053	0750060	0750070	0750	13. HANDICAPPED ACCESSIBLE FIXTURES SHALL BE IN ACCORDANCE WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES REGULATIONS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD. WHEN	S AND THE RULES AND
MANUFACTU	E OR EQUAL RERS NAMES AND MOE NUFACTURERS WILL BE		HOWN ONLY TO	REPRESENT		5-P YLE AND L	10-P EVEL OF QUAL	20-P	50-P SIMILAR EQUALS	75– S BY OTHE	DIFFER, THE MORE STRINGENT SHALL APPLY. 14. ALL BURIED DOMESTIC WATER PIPING, NON-POTABLE WATER PIPING, TEMPE AIR PIPING SHALL BE SOFT ROLLED "K" COPPER COIL AND BE PROTECTED RUBBER INSULATION. FITTINGS SHALL NOT BE PERMITTED IN OR UNDER PENETRATIONS WITH SLEEVE AND FIRE STOPPING.	O WITH A HIGH DENSITY

LUN	ABING FIXTU	JRE SCHE	DULE								PLUMBING NOTES
GNATIO	N FIXTURE DE	SCRIPTION		CO CW	NNECTION HW	SIZE S/W	V REM	IARKS			1. THE WORK COVERED CONSISTS OF FURNISHING ALL LABOR AND MATERIALS NECESSARY TO INSTA COMPLETE AND READY FOR CONTINUOUS OPERATION, THE PLUMBING SYSTEMS, APPARATUS A EQUIPMENT FOR THIS PROJECT.
^{>} -1	WATER CLOSET -	WALL HUNG		1"	-	4"	2" –				2. ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE PLUMBING SUB-CONTRACT, LABOR A TESTING PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE STATE BUILDING CO
-2	LAVATORY – WALL	HUNG		1/2"	1/2"	2"	2" –				LOCAL FUEL GAS AND PLUMBING CODES, ALL LOCAL CODES AND REGULATIONS, NATIONAL F PROTECTION ASSOCIATION, INSURANCE REGULATIONS AND REQUIREMENTS GOVERNING SUCH WORK.
					IE PLUMBIN	NG CONTR/	ACTOR.				3. ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL BE OBTAINED AS PAOR OF THE WORK OF THE SPECIFICATION INCLUDING ALL FEES OR EXPENSES INCURRED.
 ALL FINAL CONNECTIONS TO CASEWORK SINKS AND EQUIPMENT SHALL BE BY THE PLUMBING CONTRACTOR. ALL EXPOSED VALVES, PIPING AND FITTINGS SHALL BE CHROME PLATED. PLUMBING CONTRACTOR SHALL PROVIDE EACH CONNECTION TO EACH SINK OR PIECE OF EQUIPMENT ITS OWN INDIVIDUAL SHUTOFF VALVE. MANUFACTURED CASEWORK CONTRACTOR SHALL PROVIDE ALL EQUIPMENT LISTED IN THE CASEWORK SCHEDULE INCLUDING TRIM, FAUCETS, BUBBLERS, SINK WASTES AND TAIL PIECES. PLUMBING CONTRACTOR SHALL PROVIDE FULL SIZE TRAP AND EXTENSION. PLUMBING CONTRACTOR SHALL 											4. ALL PRODUCTS USED AS PART OF THE POTABLE WATER SYSTEM WHERE THE INTENDED PURPOSE TO DELIVER OR CONVEY POTABLE WATER FOR HUMAN CONSUMPTION SHALL BE LEAD FREE A CONFORM TO THE LATEST "LEAD FREE" LAW.
	SINK WASTES AND TAIL AND INSTALL ALL PLUMBI										5. WHERE WATER PIPING IS SHOWN DROPPING INTO PLUMBING CHASES WITH SIZES NOTED, THAT S SHALL BE CARRIED FULL LENGTH THROUGH THE CHASE. REFER TO PLUMBING FIXTURE SCHEDI ON THIS DRAWING FOR INDIVIDUAL FIXTURE CONNECTION SIZES.
ELE	CTRIC WAT	ER HEATE	R SCHE								6. UNLESS OTHERWISE NOTED, ALL HORIZONTAL DRAINAGE PIPING WHICH IS 3" OR LESS IN DIAME SHALL PITCH OF NOT LESS THAN 1/4" PER FOOT AND ALL HORIZONTAL DRAINAGE PIPING WHICH
	MANUFACTURER	MODEL	GALS.	REC	COVERY		<w td="" voi<=""><td>LTS PHASE</td><td>HZ</td><td>REMARKS</td><td>4" OR LARGER IN DIAMETER SHALL PITCH OF NOT LESS THAN 1/8" PER FOOT.</td></w>	LTS PHASE	HZ	REMARKS	4" OR LARGER IN DIAMETER SHALL PITCH OF NOT LESS THAN 1/8" PER FOOT.
		WODEL		G.P.H.	△ TEN						7. PROVIDE ALL FLOOR CLEANOUTS WITH HUB AND SPIGOT; LEAD AND OAKUM JOINTS FROM CLEANOUTS TO AND INCLUDING CONNECTION TO SANITARY DRAIN.
	RHEEM	EGSP-10	10	12	100		3 48	30 1	-	-	8. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND HEIGHT OF ALL PLUMBING FIXTURES.
											9. MISCELLANEOUS DISCREPANCIES OR OMISSIONS WHICH MIGHT APPEAR ON THE PLANS SPECIFICATIONS WILL NOT RELIEVE THE PLUMBING SUB-CONTRACTOR OF CODE COMPLIANCE.
HC	OCK ABSORE	SER SCHEI	DULE					1	1		10. ALL FLOOR DRAINS SHALL BE PROVIDED WITH A TRAP PRIMER CONNECTION. CONTRACTOR SH PROVIDE ALL ASSOCIATED EQUIPMENT NECESSARY TO PROVIDE A COMPLETE SYSTEM INCLUDING ELECTRONICALLY OPERATED PRIMING MANIFOLD AND ALL ASSOCIATED PIPING REQUIRED.
	PDI RATING SYN	IBOL				А	В	С	D	E	11. PROVIDE CLEANOUTS AT ALL CHANGE OF DIRECTIONS FOR SANITARY/WASTE PIPING.
PRE	ECISION PLUMBING PRODI	JCTS OR EQUAL			SC	C-500	SC-750	SC-1000	SC-1250	SC-1500	12. PROVIDE WALL CLEANOUTS WITH ACCESS PANELS AT ALL SANITARY/WASTE PIPING WITHIN PIPE CHASES OR WALLS.
WA	ITS REGULATOR COMPAN	r or equal			07	750030	0750053	0750060	0750070	0750090	13. HANDICAPPED ACCESSIBLE FIXTURES SHALL BE IN ACCORDANCE WITH THE AMERICANS W DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES AND THE RULES A REGULATIONS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD. WHERE THE TWO STANDAF DIFFER, THE MORE STRINGENT SHALL APPLY.
WA	DE OR EQUAL					5-P	10-P	20-P	50-P	75–P	14. ALL BURIED DOMESTIC WATER PIPING, NON-POTABLE WATER PIPING, TEMPERED WATER PIPING
	URERS NAMES AND MOD	EL NUMBERS ARE SI ACCEPTABLE.	HOWN ONLY TO	REPRESENT	TYPE, STY	YLE AND L	EVEL OF QUAL	LITY EXPECTED,	SIMILAR EQUALS	BY OTHER	AIR PIPING SHALL BE SOFT ROLLED "K" COPPER COIL AND BE PROTECTED WITH A HIGH DENS RUBBER INSULATION. FITTINGS SHALL NOT BE PERMITTED IN OR UNDER SLAB. PROVIDE SI

PLUN	IBING FIXTU	RE SCHE	DULE								PLUMBING NOTES
SIGNATION	FIXTURE DESC	CRIPTION		CW		N SIZE S/W	V RE	MARKS			1. THE WORK COVERED CONSISTS OF FURNISHING ALL LABOR AND MATERIALS NECESSARY TO COMPLETE AND READY FOR CONTINUOUS OPERATION, THE PLUMBING SYSTEMS, APPARA EQUIPMENT FOR THIS PROJECT.
P-1	WATER CLOSET – WA	ALL HUNG		1"	-	4"	2" –				2. ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE PLUMBING SUB-CONTRACT, LAE TESTING PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE STATE BUILDIN LOCAL FUEL GAS AND PLUMBING CODES, ALL LOCAL CODES AND REGULATIONS, NATION
P-2 ES:	LAVATORY – WALL H	UNG		1/2"	1/2"	2"	2" –				3. ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL BE OBTAINED OF THE WORK OF THE SPECIFICATION INCLUDING ALL FEES OR EXPENSES INCURRED.
ALL FINAL ALL EXPO PLUMBINO MANUFAC BBLERS, S	CONNECTIONS TO CASEW SED VALVES, PIPING AND CONTRACTOR SHALL PRO URED CASEWORK CONTRA INK WASTES AND TAIL PIL ND INSTALL ALL PLUMBING	FITTINGS SHALL BE DVIDE EACH CONNEC ACTOR SHALL PROVID ECES. PLUMBING CO	E CHROME PLATE CTION TO EACH DE ALL EQUIPME ONTRACTOR SHAL	ED. SINK OR F ENT LISTED LL PROVIDE	PIECE OF IN THE (E FULL SI	EQUIPMEN ⁻ CASEWORK ZE TRAP A	ITS OWN INE SCHEDULE IN ND EXTENSION	LUDING TRIM, F . PLUMBING COI	AUCETS, NTRACTOR SHALL	L	4. ALL PRODUCTS USED AS PART OF THE POTABLE WATER SYSTEM WHERE THE INTENDED PUP TO DELIVER OR CONVEY POTABLE WATER FOR HUMAN CONSUMPTION SHALL BE LEAD F CONFORM TO THE LATEST "LEAD FREE" LAW.
						5, SINK WA	STE, TAIL FIE	ES, INAES AND	EXTENSIONS.		 5. WHERE WATER PIPING IS SHOWN DROPPING INTO PLUMBING CHASES WITH SIZES NOTED, T SHALL BE CARRIED FULL LENGTH THROUGH THE CHASE. REFER TO PLUMBING FIXTURE S ON THIS DRAWING FOR INDIVIDUAL FIXTURE CONNECTION SIZES. 6. UNLESS OTHERWISE NOTED, ALL HORIZONTAL DRAINAGE PIPING WHICH IS 3" OR LESS IN
I.D.	MANUFACTURER	MODEL	GALS.	RE	COVERY		KW VC	ILTS PHASE	нz	REMARKS	SHALL PITCH OF NOT LESS THAN 1/4" PER FOOT AND ALL HORIZONTAL DRAINAGE PIPING 4" OR LARGER IN DIAMETER SHALL PITCH OF NOT LESS THAN 1/8" PER FOOT.
-1	RHEEM	EGSP-10	10	G.P.H. 12	△ TI 100		3 4	30 1			7. PROVIDE ALL FLOOR CLEANOUTS WITH HUB AND SPIGOT; LEAD AND OAKUM JOINTS FROM C TO AND INCLUDING CONNECTION TO SANITARY DRAIN.
											 8. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND HEIGHT OF ALL PLUMBING FIXT 9. MISCELLANEOUS DISCREPANCIES OR OMISSIONS WHICH MIGHT APPEAR ON THE PL SPECIFICATIONS WILL NOT RELIEVE THE PLUMBING SUB-CONTRACTOR OF CODE COMPLIANCE.
SHO			DULE				•				10. ALL FLOOR DRAINS SHALL BE PROVIDED WITH A TRAP PRIMER CONNECTION. CONTRACTO PROVIDE ALL ASSOCIATED EQUIPMENT NECESSARY TO PROVIDE A COMPLETE SYSTEM INCLU ELECTRONICALLY OPERATED PRIMING MANIFOLD AND ALL ASSOCIATED PIPING REQUIRED.
	PDI RATING SYME	30L				А	В	С	D	E	11. PROVIDE CLEANOUTS AT ALL CHANGE OF DIRECTIONS FOR SANITARY/WASTE PIPING.
PRE	CISION PLUMBING PRODUC	CTS OR EQUAL			S	SC-500	SC-750	SC-1000	SC-1250	SC-1500	12. PROVIDE WALL CLEANOUTS WITH ACCESS PANELS AT ALL SANITARY/WASTE PIPING WITHIN PIF CHASES OR WALLS.
WAT	S REGULATOR COMPANY	OR EQUAL			C	750030	0750053	0750060	0750070	0750090	13. HANDICAPPED ACCESSIBLE FIXTURES SHALL BE IN ACCORDANCE WITH THE AMERICA DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES AND THE RU REGULATIONS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD. WHERE THE TWO ST DIFFER, THE MORE STRINGENT SHALL APPLY.
MANUFACT	E OR EQUAL IRERS NAMES AND MODEL INUFACTURERS WILL BE A		IOWN ONLY TO I	REPRESENT	T TYPE, S	5-P Tyle and	10-P LEVEL OF QUA	20-P LITY EXPECTED,	50-P SIMILAR EQUALS	75-P S BY OTHER	14. ALL BURIED DOMESTIC WATER PIPING, NON-POTABLE WATER PIPING, TEMPERED WATER P AIR PIPING SHALL BE SOFT ROLLED "K" COPPER COIL AND BE PROTECTED WITH A HIGH RUBBER INSULATION. FITTINGS SHALL NOT BE PERMITTED IN OR UNDER SLAB. PROVI

SYMBOL	TYPE	MANUFACTURER	MODEL	OUTLET	STRAINER	REMARKS
A	FD	J.R. SMITH	2005–A–P	CAULK	NICK-BRZ	FINISHED AREAS
В	FD	J.R. SMITH	2130-U-PB-P	CAULK	CAST IRON	DUCTILE IRON GRATE – MECH RMS

* ALL FLOOR DRAINS SHALL BE PROVIDED WITH AUTOMATIC TRAP PRIMERS. REFER TO DETAIL FOR PIPING ARRANGEMENT.

PREPARED BY PLUMBING LEGEND <u>SYMBOL</u> ABBREVIATION **DESCRIPTION** BELOW FLOOR PIPING (INDICATED AS DOUBLE LINEWORK) ----www.BETA-Inc.com CW COLD WATER _____ REGISTERED PROFESSIONAL HOT WATER _____ HW NON-POTABLE COLD WATER _____NPCW_____ NPCW S or W SOIL OR WASTE VENT V ____ NATURAL GAS G ____ CONTINUATION CONT UP PIPE RISE OR UP -0 SUBCONSULTANT DN PIPE DROP OR DOWN TEE PIPE TEE 547 SOV SHUT-OFF VALVE **__** -b>-ENGINEERING, INC. PRV PRESSURE REDUCING VALVE +0 VIV VALVE IN VERTICAL Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 221-9220 CV CHECK VALVE web: www.sar.com Т & W WASTE & TRAP CO CLEANOUT PLUG PROJECT _____Q_____ FCO FLUSH FLOOR CLEANOUT ARROW INDICATES DIRECTION OF FLOW ARROW INDICATES DIRECTION OF SLOPE MAIN LIFT UNION WTS WATERTIGHT SLEEVE — **PUMP STATION** ---+ HB HOSE BIBB WALL HYDRANT WH 0 FD **"**A" FLOOR DRAIN & TYPE RPZ REDUCED PRESSURE ZONE ASSEMBLY WM TAUNTON, MA WM WATER METER TITLE THERMOMETER Т

PRESSURE GAUGE WITH PETCOCK

SHOCK ABSORBER

VACUUM RELIEF VALVE

POINT OF CONNECTION

SOIL STACK

VENT STACK

INVERT

TYPICAL

NOT TO SCALE

ABOVE FINISHED FLOOR

LIMIT OF PLUMBING CONTRACT

SLOPE = 1/8" PER FOOT

SLOPE = 1/4" PER FOOT

FINISHED FLOOR ELEVATION

ELECTRONIC TRAP PRIMER

PUMPED DISCHARGE

VENT THRU ROOF

WATER HEATER & NUMBER

TEMPERATURE AND PRESSURE RELIEF VALVE

 \mathbf{Q}

Ą

PG

T&P

SA

POC

WH-1

SS

VS

VTR

INV

TYP

NTS

AFF

LPC

S=.01

S=.02

F.F.E.

PD

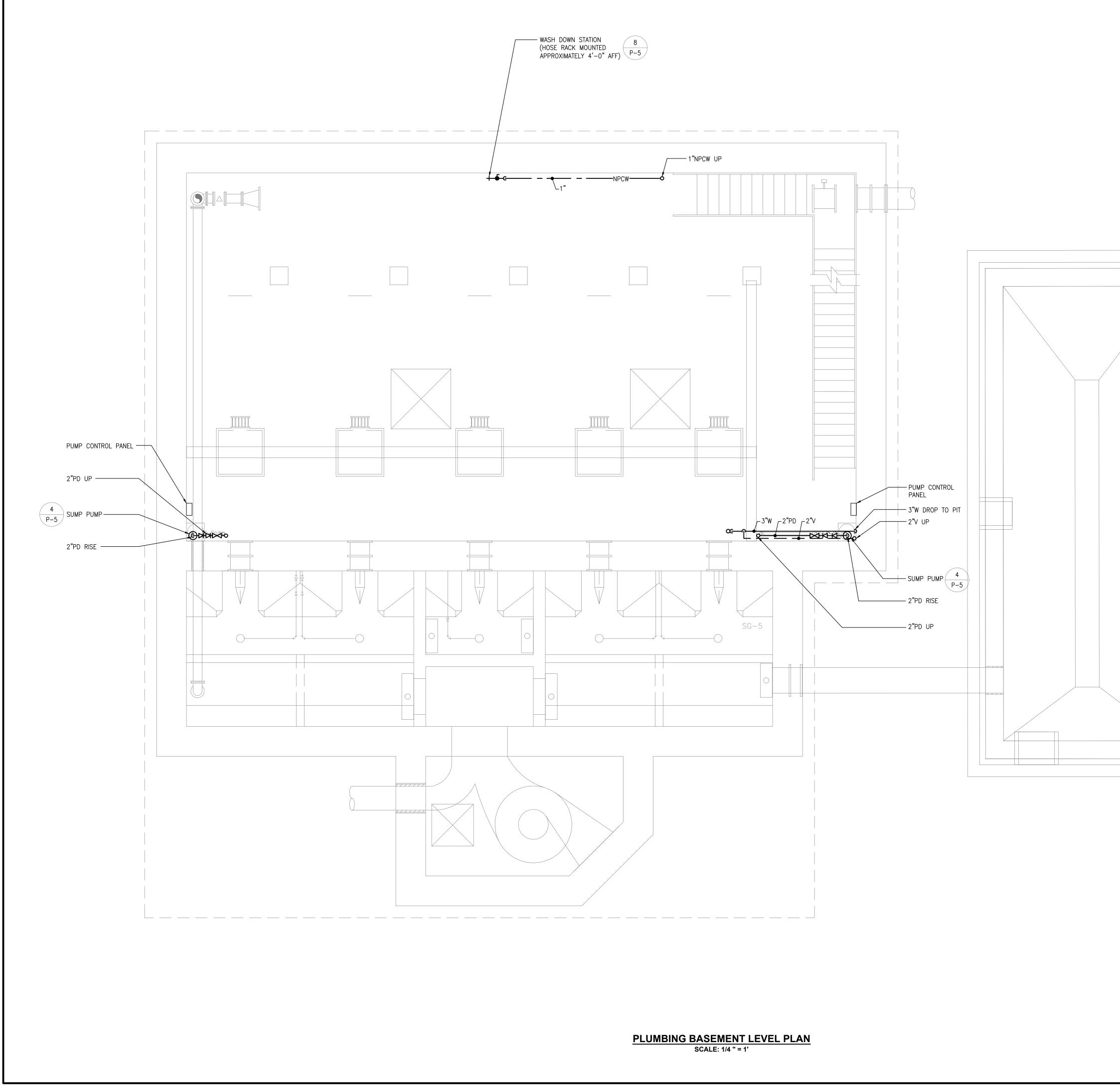
ETP

PLUMBING LEGEND, NOTES & SCHEDULE

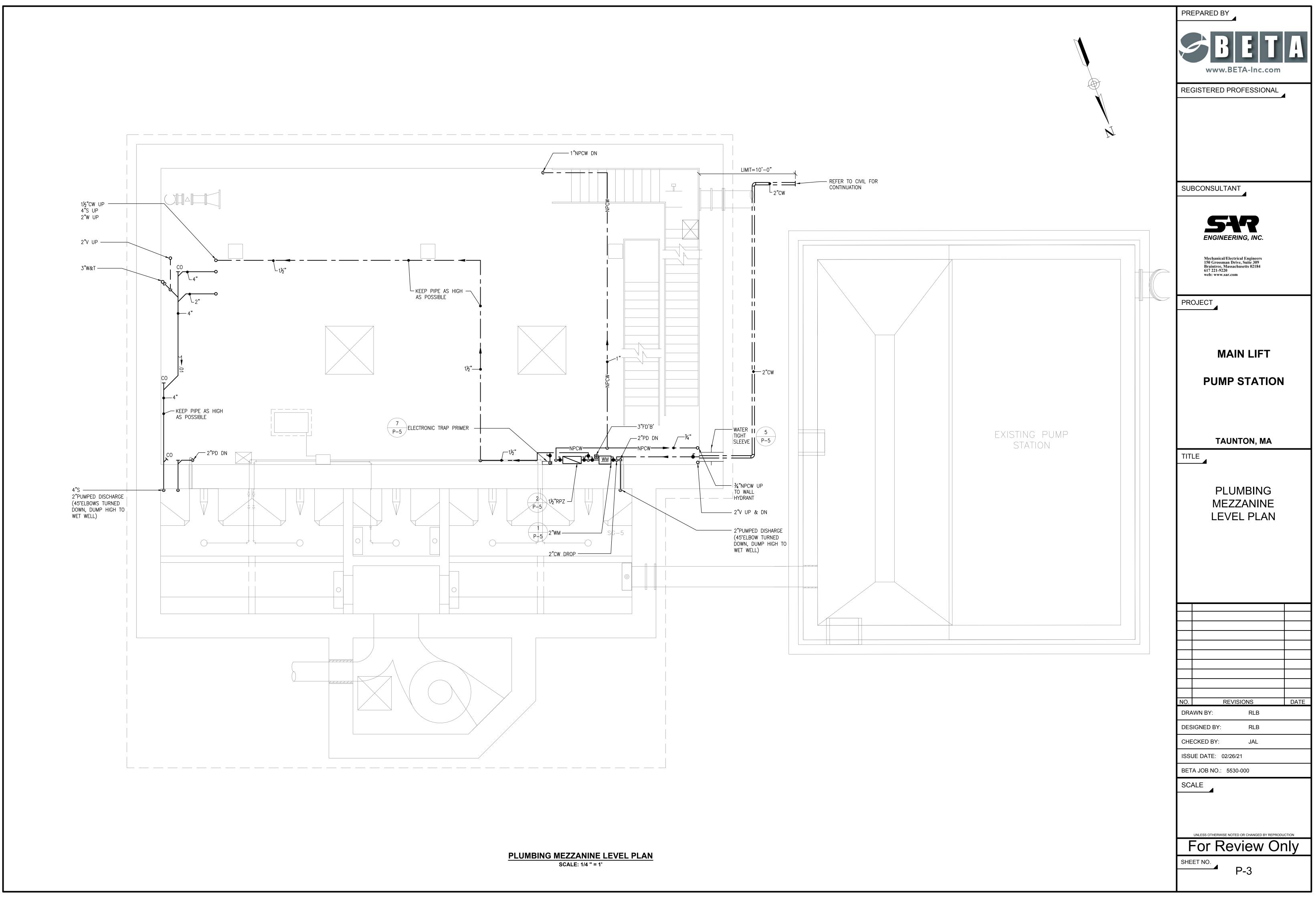
NO. REVISIONS DATE DRAWN BY: GPC GPC DESIGNED BY: CHECKED BY: JAL ISSUE DATE: 02/26/21 BETA JOB NO.: 5530-000 SCALE UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION For Review Only

P-1

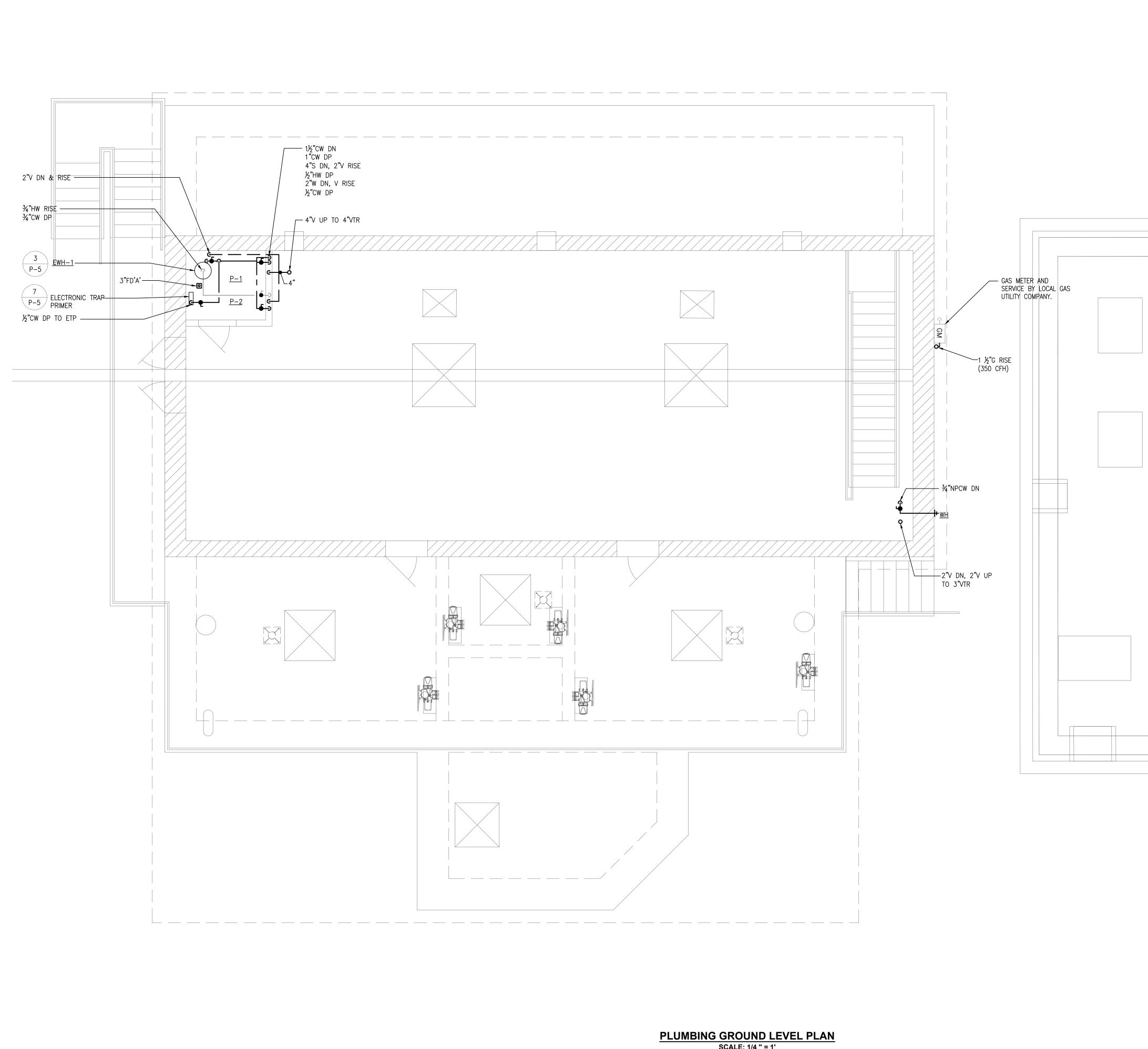
SHEET NO.



	PREPARED BY
	REGISTERED PROFESSIONAL
	N
	SUBCONSULTANT
	ENGINEERING, INC.
	Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 221-9220 web: www.sar.com
	PROJECT
	MAIN LIFT
	PUMP STATION
EXISTING PUMP STATION	TAUNTON, MA
	TITLE
	PLUMBING BASEMENT LEVEL PLAN
	NO. REVISIONS DATE
	DRAWN BY: GPC DESIGNED BY: GPC
	CHECKED BY: JAL
	ISSUE DATE: 02/26/21
	BETA JOB NO.: 5530-000
	SCALE
	UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION
	For Review Only SHEET NO. P-2

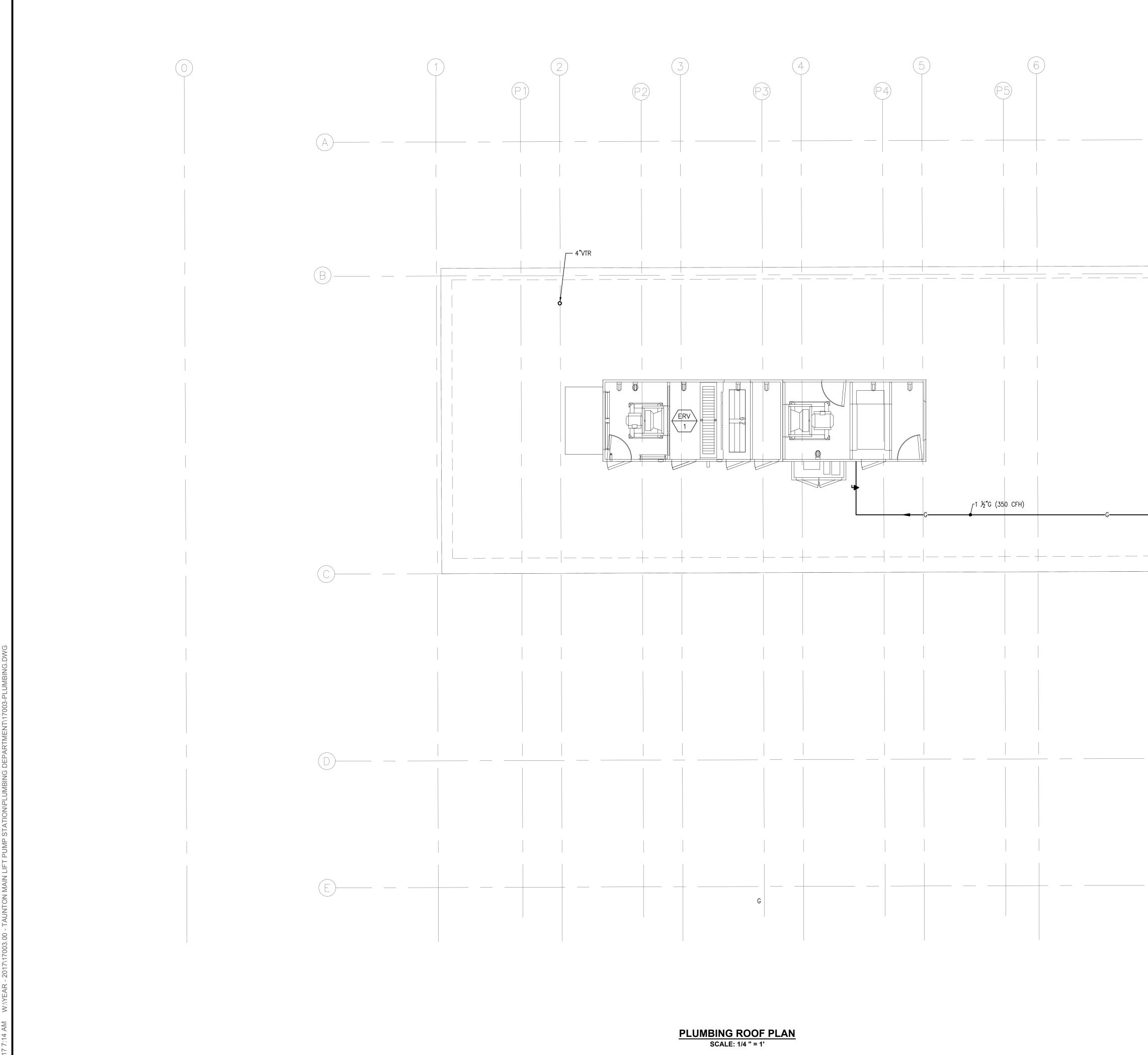




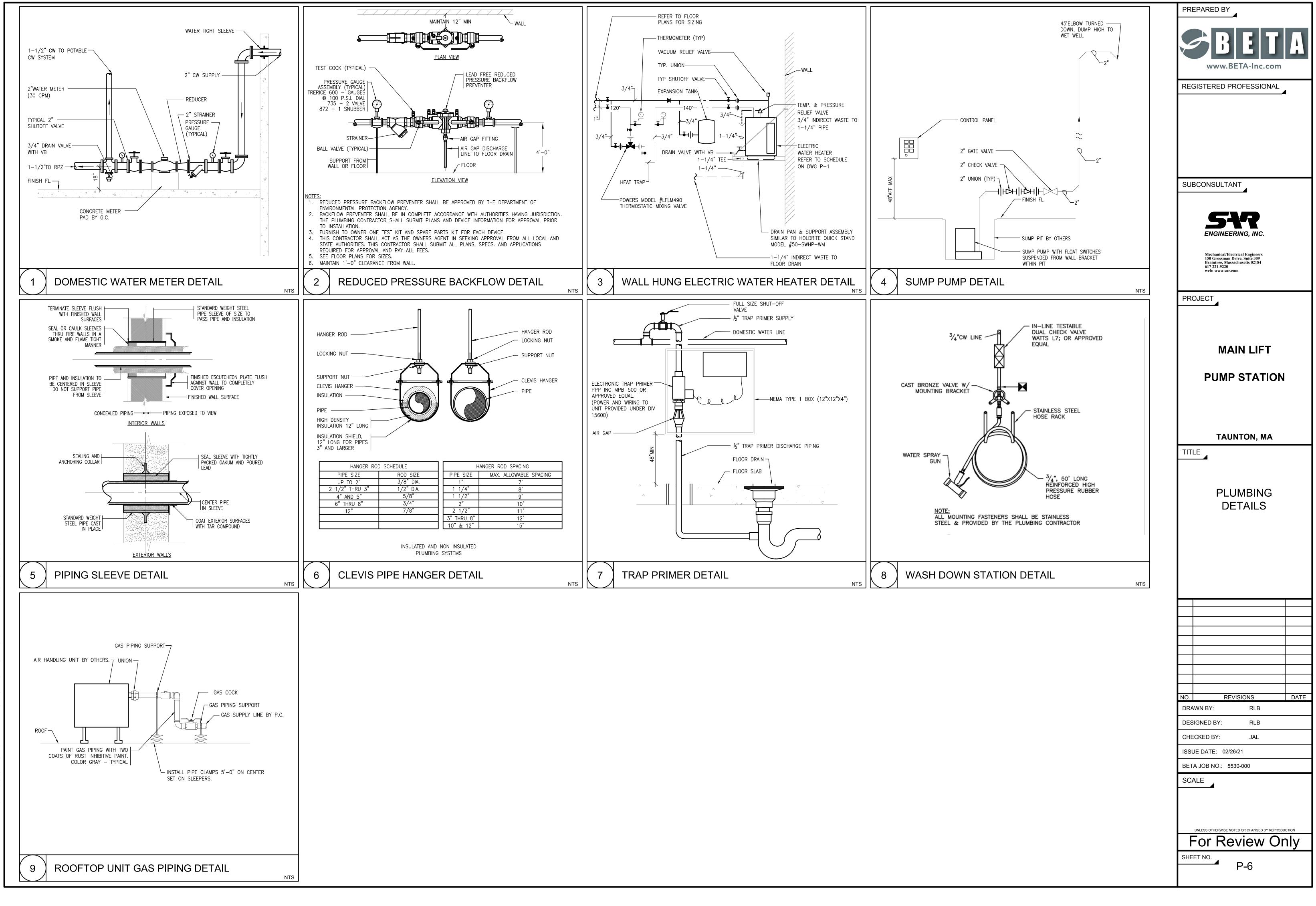


PLUMBING GROUND LEVEL PLAN SCALE: 1/4 " = 1'

	PREPARED BY SEBERA www.BETA-Inc.com REGISTERED PROFESSIONAL
EXISTING PUMP STATION	SUBCONSULTANT SECONSULTANT SECONSULTANT SECONSULTANT MINICALIFY PROJECT MAIN LIFT PUMP STATION TAUNTON, MA TITLE PLUMBING
	GROUND LEVEL PLAN



		PREPARED BY
7		SEBETA www.BETA-Inc.com REGISTERED PROFESSIONAL
	N	
		SUBCONSULTANT
		ENGINEERING, INC.
		Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 221-9220 web: www.sar.com
		PROJECT
		MAIN LIFT
		PUMP STATION
		TAUNTON, MA
−1 ½"G DN. (350 CFH)		TITLE
		PLUMBING ROOF PLAN
		NO. REVISIONS DATE DRAWN BY: RLB
		DESIGNED BY: RLB
		CHECKED BY: JAL ISSUE DATE: 02/26/21
		BETA JOB NO.: 5530-000 SCALE
		For Review Only SHEET NO. P-5
		F-U



:14 AM W:\YEAR - 2017\17003.00 - TAUNTON MAIN LIFT PUMP STATION\PLUMBING DEPARTMENT\17003-PLUMBING.DV

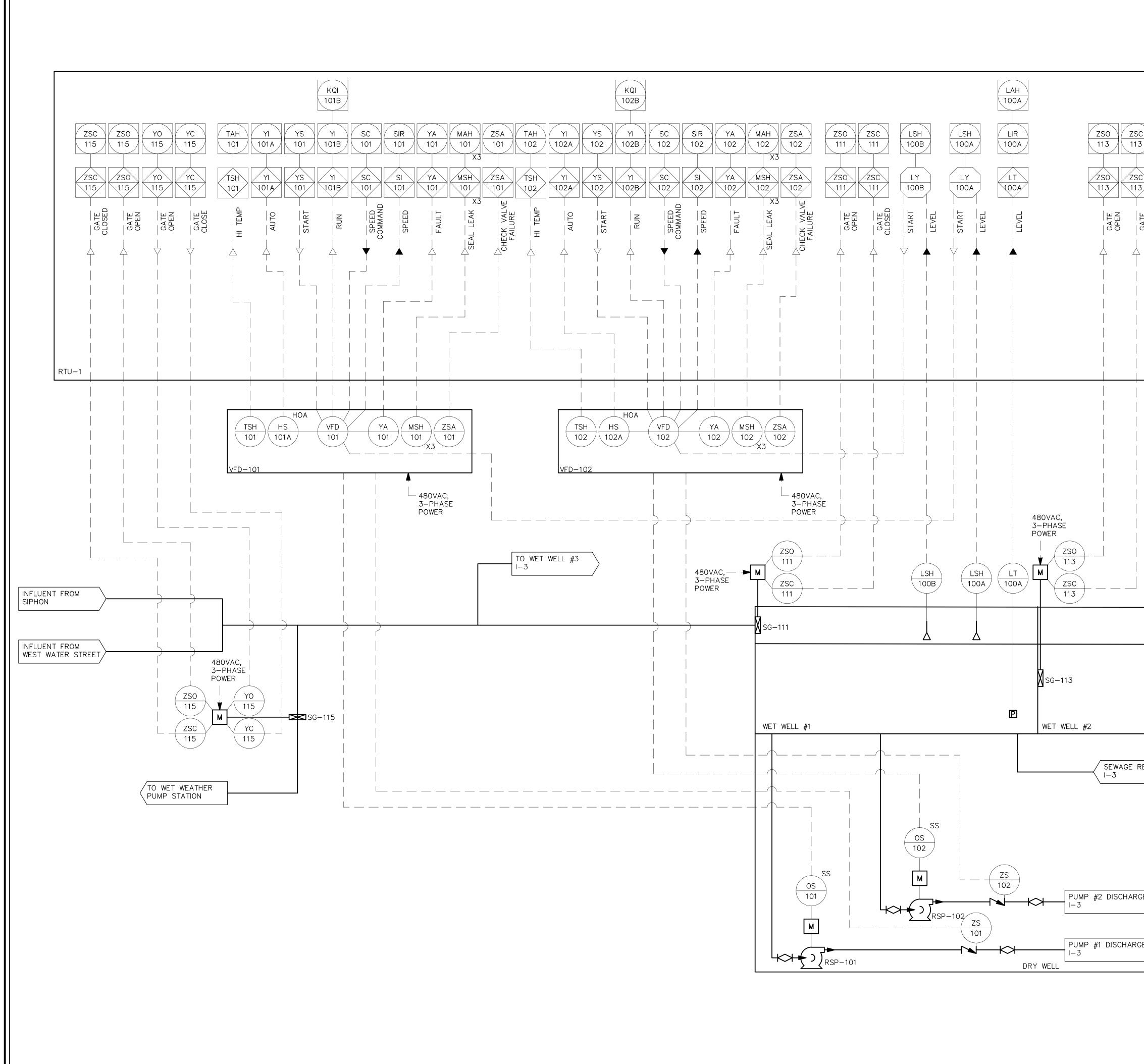
	ABBREVIATIONS
FR HI HOA JB LR MC OAC OIT ORP OS PH	AUTO-MANUAL CONTROL PANEL DISSOLVED OXYGEN EMERGENCY STOP ETHERNET FOWARD-REVERSE HIGH HAND-OFF-AUTO JUNCTION BOX LOCAL-REMOTE MOTOR CONTROLLER (STARTER) OPEN-AUTO-CLOSE OPERATOR INTERFACE TERMINAL OXYGEN REDUCTION POTENTIAL OPERATOR STATION HYDROGEN ION CONCENTRATION PRESSURE START-STOP TEMPERATURE TURBIDITY VARIABLE FREQUENCY DRIVE
BTE CEN FA LS PM PI PS PTE RAS RSW SAN SC SBS SHC SSE SHC SSE STO TEF TS WAS	BIOLOGICAL TREATED EFFLUENT CENTRATE FOUL AIR LIME SLURRY POLYMER PRIMARY INFLUENT PRIMARY SLUDGE PRIMARY TANK EFFLUENT RETURN ACTIVATED SLUDGE RAW SEWAGE WATER SANITRAY WASTE SCUM SODIUM BISULFITE SODIUM HYPOCHLORITE SECONDARY SETTLED EFLUENT SLUDGE THICKENER OVERFLOW TREATED EFFLUENT WATER THICKENED SLUDGE

PROCESS OR INIATING VAIRABLE ANALYSIS BURNER, COMBUST. JSER'S CHOICE JSER'S CHOICE VOLTAGE FLOW JSER'S CHOICE HAND, MANUAL CURRENT POWER TIME, SCHEDULE	MODIFIER DIFFERENCE FRACTION	READOUT OR PASSIVE FUNCTION ALARM USER'S CHOICE USER'S CHOICE PRIMARY ELEMENT GLASS	OUTPUT FUNCTION USER'S CHOICE USER'S CHOICE	MODIFIER USER'S CHOICE USER'S CHOICE USER'S CHOICE
BURNER, COMBUST. JSER'S CHOICE JSER'S CHOICE VOLTAGE FLOW JSER'S CHOICE HAND, MANUAL CURRENT POWER TIME, SCHEDULE		USER'S CHOICE USER'S CHOICE USER'S CHOICE PRIMARY ELEMENT GLASS	CHOICE CLOSE USER'S	CHOICE USER'S CHOICE USER'S
COMBUST. JSER'S CHOICE JSER'S CHOICE VOLTAGE FLOW JSER'S CHOICE HAND, MANUAL CURRENT POWER TIME, SCHEDULE		CHOICE USER'S CHOICE USER'S CHOICE PRIMARY ELEMENT GLASS	CHOICE CLOSE USER'S	CHOICE USER'S CHOICE USER'S
CHOICE JSER'S CHOICE VOLTAGE FLOW JSER'S CHOICE HAND, MANUAL CURRENT POWER TIME, SCHEDULE		CHOICE USER'S CHOICE PRIMARY ELEMENT GLASS	USER'S	CHOICE USER'S
CHOICE VOLTAGE FLOW JSER'S CHOICE HAND, MANUAL CURRENT POWER TIME, SCHEDULE		CHOICE PRIMARY ELEMENT GLASS		
FLOW JSER'S CHOICE HAND, MANUAL CURRENT POWER TIME, SCHEDULE	FRACTION	ELEMENT GLASS		
JSER'S CHOICE HAND, MANUAL CURRENT POWER TIME, SCHEDULE	FRACTION			
CHOICE HAND, MANUAL CURRENT POWER TIME, SCHEDULE				
MANUAL CURRENT POWER TIME, SCHEDULE				
POWER TIME, SCHEDULE		HORN		HIGH
TIME, SCHEDULE		INDICATE		
SCHÉDULE	SCAN			
			CONTROL STATION	
_EVEL		LIGHT		LOW
MOISTURE, HUMIDITY				MIDDLE
JSER'S		USER'S	USER'S	USER'S
CHOICE JSER'S		CHOICE USER'S	CHOICE OPEN	CHOICE USER'S
CHOICE PRESSURE,		CHOICE POINT,		CHOICE
VACUUM		TEST		
QUANTITY, EVENT	TOTALIZE			
RADIATION		RECORD, PRINT		
SPEED, FREQUENCY	SAFETY		SWITCH	
TEMP.			TRANSMIT	
MULTI– VARIABLE		MULTI- FUNCTION	MULTI- FUNCTION	MULTI- FUNCTION
VIBRATION			VALVE, DAMPER	
WEIGHT, FORCE		WELL		
CLASSIFIED		UN- CLASSIFIED	CLASSIFIED	UN- CLASSIFIED
EVENT, STATE			COMPUTE	
POSITION			DRIVE, ACTUATOR	
		,FIR≤T	IFTTFR	
				ER(S)
XXXX				
	CLARIFYING			
	AULTI- /ARIABLE /IBRATION WEIGHT, FORCE JN- CLASSIFIED EVENT, STATE	AULTI- /ARIABLE /IBRATION WEIGHT, FORCE JN- CLASSIFIED EVENT, STATE POSITION	MULTI/ARIABLE MULTIFUNCTION /IBRATION WEIGHT, VRIGHT, WELL ORCE UN JN CLASSIFIED CLASSIFIED CLASSIFIED EVENT, STATE POSITION FIRST SUCCH XXX XXX XXX	MULTI- MULTI- MULTI- /ARIABLE FUNCTION FUNCTION /IBRATION VALVE, DAMPER WEIGHT, FORCE WELL JN- UN- CLASSIFIED CLASSIFIED EVENT, STATE RELAY, COMPUTE POSITION DRIVE, ACTUATOR

LINE LEGEND		SYMBOL
NEW PROCESS PIPING	M S	ACTUATOR – MOTORIZED ACTUATOR – SOLENOID
DIGITAL SIGNAL	U	AIR REGULATOR/SEPERATOR
ANALOG SIGNAL		ANALYZER
ELECTRICAL POWER OR CONTROL	卤	
XXX FIELD INSTRUMENTATION		BLOWER/FAN
PLC INTERFACE		CALIBRATION COLUMN
XXX XXXX XXXX PANEL/OIT/SCADA DISPLAY AND OR CONTROL	-	COMPRESSOR - ROTARY TYPE
XXX XXXX INDEPENDENT CONTROIL CIRCUIT	Y	DRAIN
DRAWING AND OR PROCESS REFERENCE		EDUCATOR
	Μ	ELECTRIC MOTOR
		EMERGENCY EYEWASH/SHOWER
	nn	FLEX CONNECTION
	— — M — —	FLOW METER - MAGNETIC
	I I M ≫	FLOW METER - ULTRASONIC STRAP ON
	\bigcirc	FLOW METER - ROTAMETER
	M	FLOW METER - THERMAL MASS
	FS	FLOW SWITCH
	G	GRINDER
	\bigcirc	HOSE
	لم ا	LEVEL SWITCH - FLOAT SWITCH
	\otimes	LEVEL SWITCH - PADDLE WHEEL
	l P	LEVEL TRANSMITTER – SUBMERSIBLE PRESSURE
		LEVEL TRANSMITTER – ULTRANSONIC
	R	LEVEL TRANSMITTER – RADAR
		MACERATOR

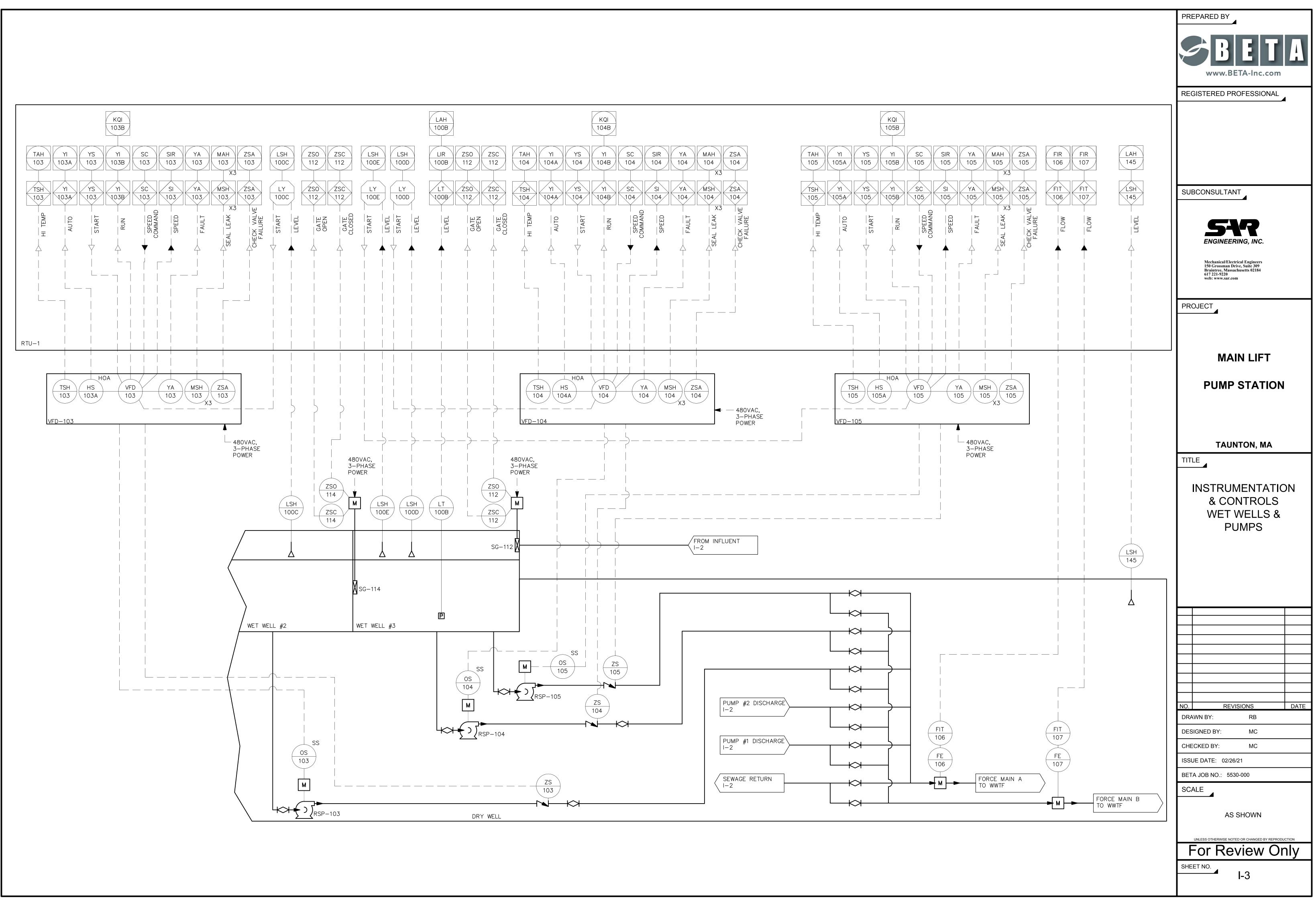
			↓
			BETA-Inc.com
L	<u>LEGEND</u>		REGISTERED PROFESSIONAL
		MIXER	
		MIXER – SUBMERSIBLE	
	M	MOTOR	SUBCONSULTANT
		POSITION SWITCH	ENGINEERING, INC.
	Ð	PULSATION DAMPENER	Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 221-9220 web: www.sar.com
		PUMP – CENTRIFUGAL	
		PUMP – PERISTALTIC	PROJECT
		PUMP - PROGRESSING/CAVITY	
	╺╼िि _┺ ╼	PUMP – RECIPROCATING/METERING	MAIN LIFT
		PUMP - ROTARY LUBE	PUMP STATION
		PUMP – SUBMERSIBLE	TAUNTON, MA
	X	SLIDE OR SLUICE GATE	INSTRUMENTATION & CONTROLS
		STATIC MIXER	LEGEND AND NOTES
	D8	VALVE – BALL	
		VALVE – BUTTERFLY	
		VALVE – CHECK	
	\bowtie	VALVE – GATE	
	\bowtie	VALVE – GLOBE	
	L% 1	VALVE – PINCH	
	\bowtie	VALVE - PLUG	
	Ŕ	VALVE – PRESSURE REGULATING	
	表	VALVE – PRESSURE REGULATING	
		VIBRATOR	NO.REVISIONSDATEDRAWN BY:RBDESIGNED BY:MC
			CHECKED BY: MC
			ISSUE DATE: 02/26/21
			BETA JOB NO.: 5530-000
			SCALE
			AS SHOWN
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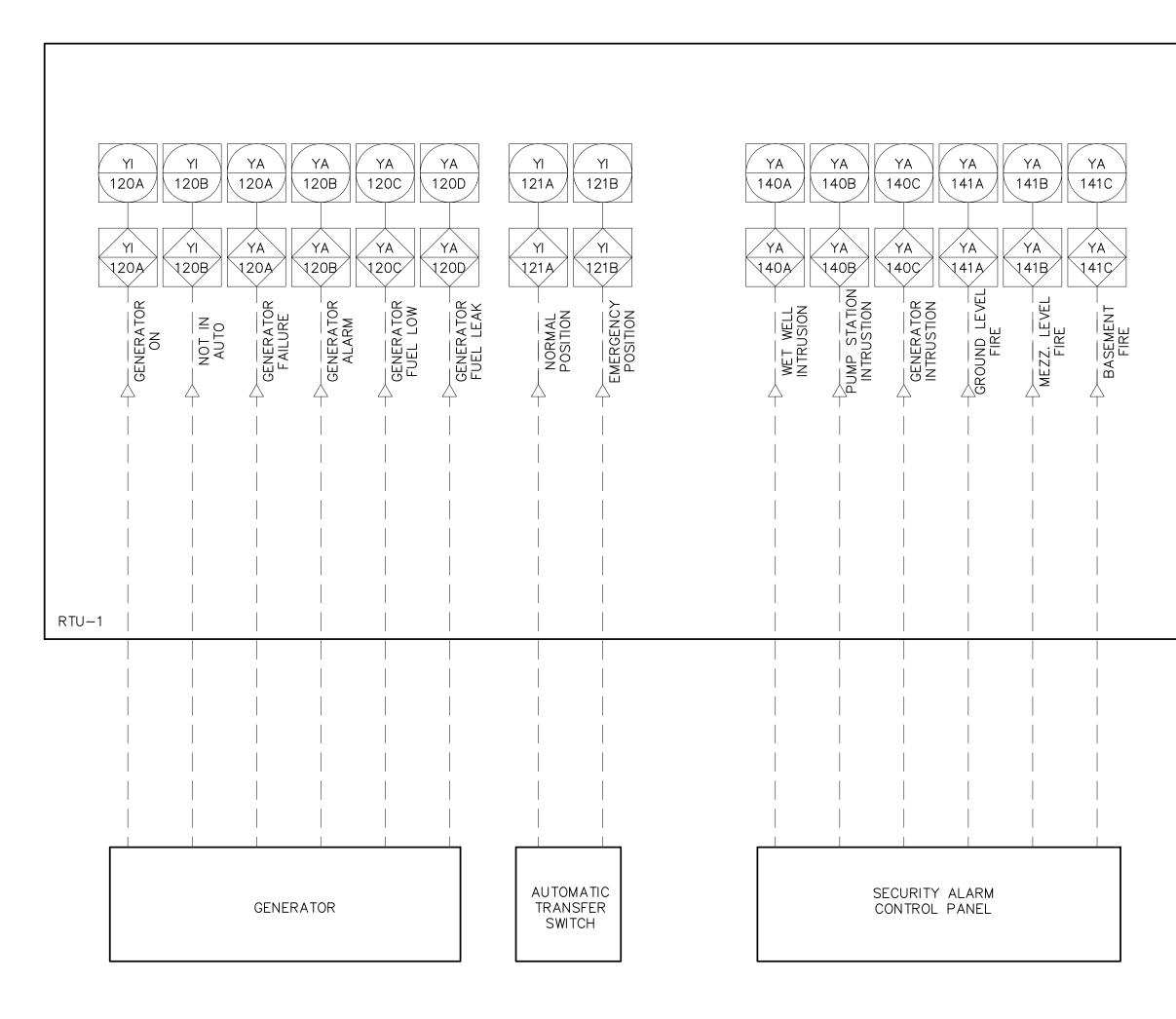


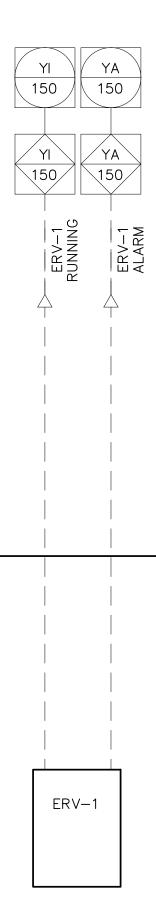
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C 3	REGISTERED PROFESSIONAL	1
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	PROJECT MAIN LIFT PUMP STATION	
	TAUNTON, MA	
	TITLE INSTRUMENTATIO & CONTROLS WET WELLS & PUMPS	DN
RETURN		
	NO. REVISIONS DRAWN BY: RB DESIGNED BY: MC	DATE
GE	CHECKED BY: MC ISSUE DATE: 02/26/21	
GE	BETA JOB NO.: 5530-000 SCALE	
,	AS SHOWN	CTION
	For Review Or	
	SHEET NO. I-2	



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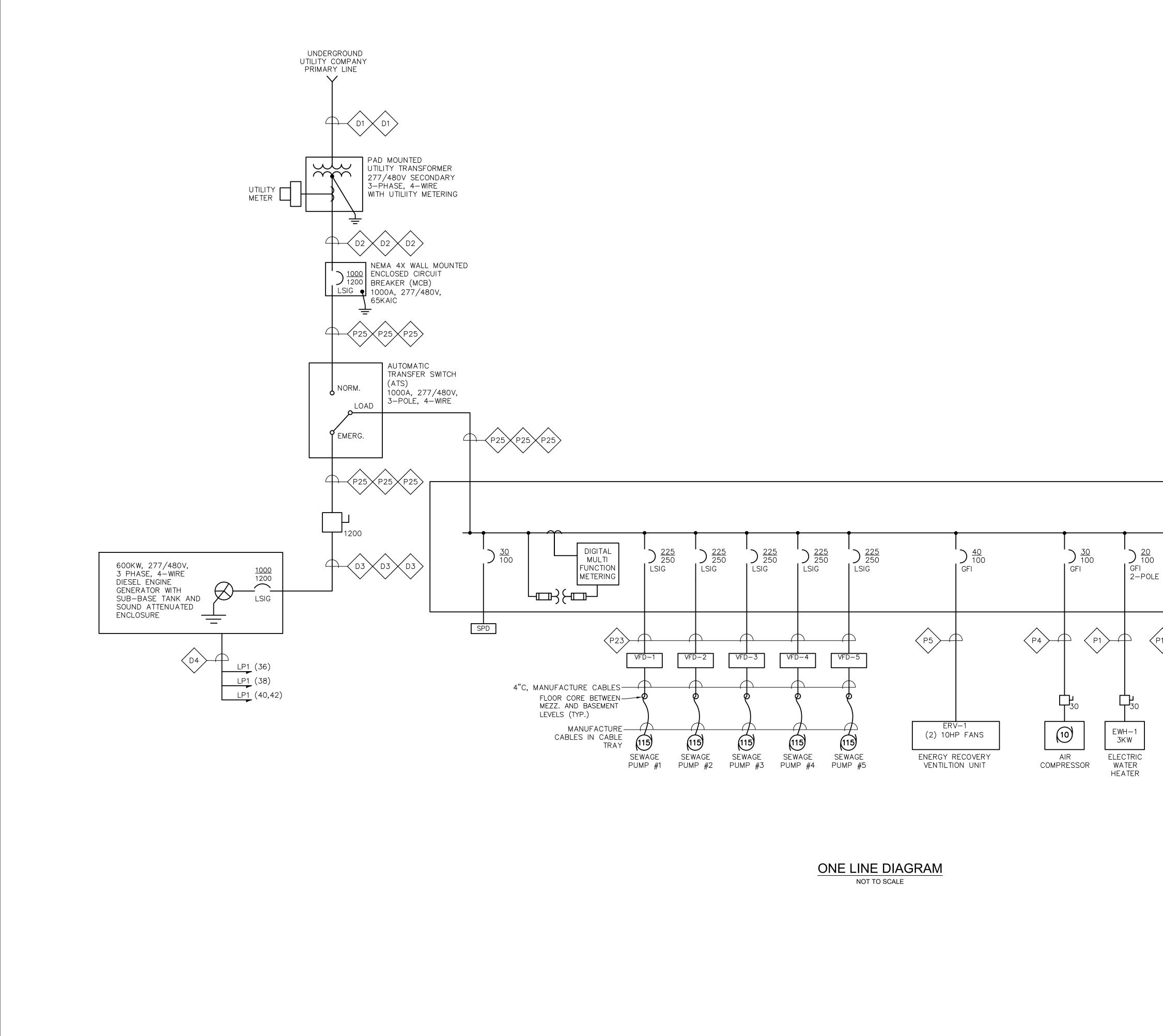




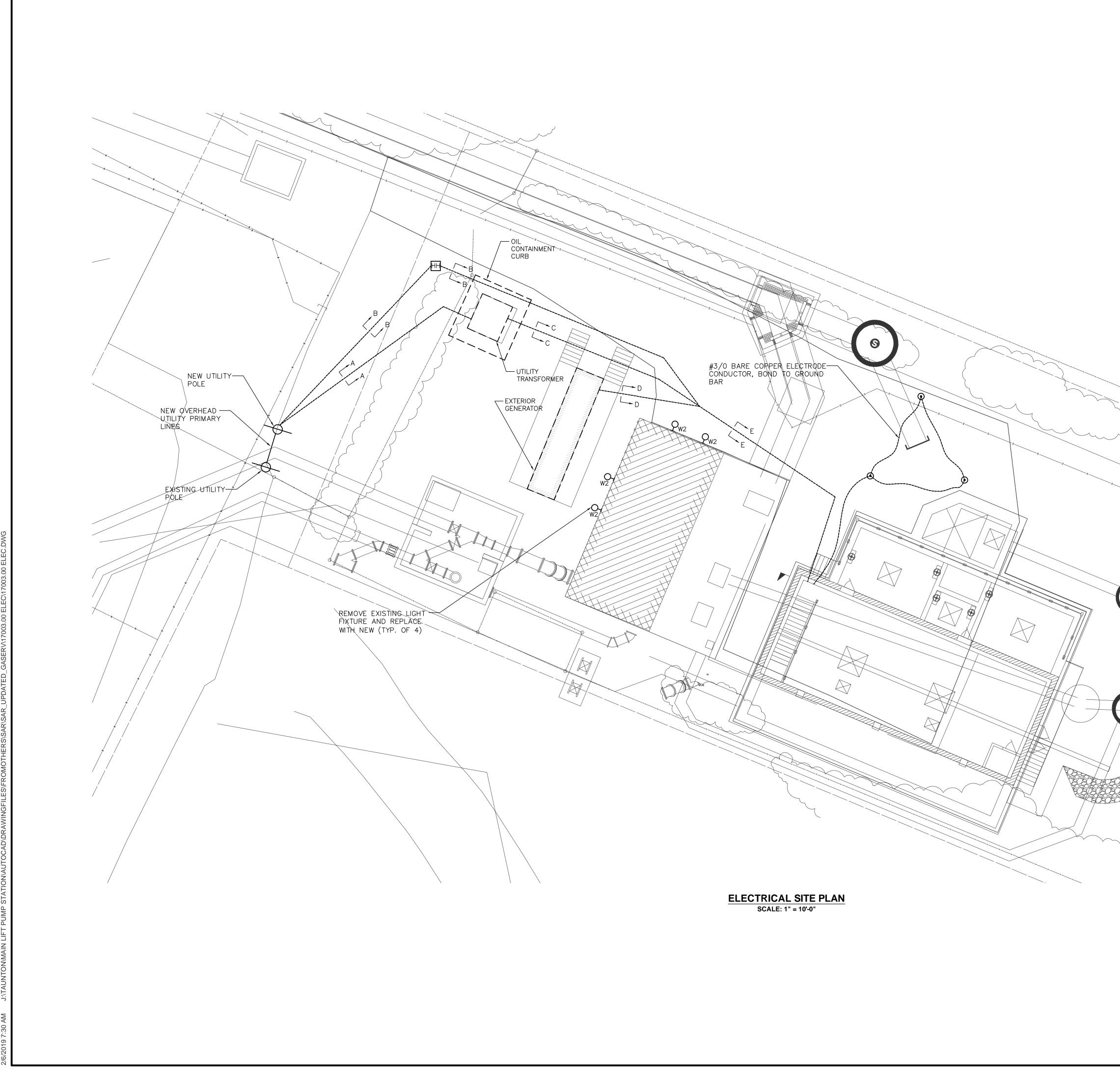
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	SEBETA www.BETA-Inc.com
YI YA 160 160	
YI YA 160 160	SUBCONSULTANT
COMMPRESSOR	SAR ENGINEERING, INC.
	Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 221-9220 web: www.sar.com
	PROJECT
	MAIN LIFT
	PUMP STATION
AIR	TAUNTON, MA
COMPRESSOR	TITLE
	INSTRUMENTATION & CONTROLS STATION MONITORING
	NO. REVISIONS DATE
	DRAWN BY: RB DESIGNED BY: MC
	CHECKED BY: MC
	ISSUE DATE: 02/26/21
	BETA JOB NO.: 5530-000
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ELECTRICAL SYMBOLS	ELECTRICAL SYMBOLS	<u>ELECTRICAL SYMBOLS</u>
Image: Second	UNDERGROUND CONDUT DUCT BANK PP1(1) HOWERUND ESIGNATION TO PAREL PP1 GIRCUIT #1, with THE FOLOWING CONDUT/WRES	DS MAGNETIC DOOR SWITCH KP SECURITY SYSTEM KEY PAD HC HELP CALL PUSHBUITON IMAGNETIC TOR, COMBINATION RATE-OF-RISE AND FIXED TEMPERATURE SECP SECURITY ALARN CONTROL PANEL IMAGNETIC TON SYSTEM - CONTROL PANEL (SUPPLIED BY DIV. 17) Image: Control of the system - Control Panel (SUPPLIED BY DIV. 17) Image: Control of the system - Control panel (SUPPLIED BY DIV. 17) Image: Control of the system - Control panel (SUPPLIED BY DIV. 17) Image: Control of the system - Control panel (SUPPLIED BY DIV. 17) Image: Control of the system - ALARM HORN (SUPPLIED BY DIV. 17) Image: Control of the system - ALARM HORN (SUPPLIED BY DIV. 17) Image: Control of the system - ALARM HORN (SUPPLIED BY DIV. 17) Image: Control of the system - ALARM BEACON (SUPPLIED BY DIV. 17) Image: Control of the system - ALARM BEACON (SUPPLIED BY DIV. 17) Image: Control of the system - Control of
(AR1) ALARM RELAY, "AR1" REFERS TO RELAY NAME DESIGNATION (CR) CONTROL RELAY, "CR1" REFERS TO RELAY NAME DESIGNATION (M) MOTOR START RELAY (TR1) TIMING RELAY, "TR1" REFERS TO RELAY NAME DESIGNATION (H) NORMALY OPEN RELAY CONTACT (H) NORMALLY CLOSED RELAY CONTACT (H) NORMALLY CLOSED RELAY CONTACT (H) OPERATOR PUSH BUTTON NORMALLY OPEN CONTACT (H) OPERATOR PUSH BUTTON NORMALLY CLOSED CONTACT (H) PRESSURE SWITCH - CLOSES ON HIGH PRESSURE (H) PRESSURE SWITCH - CLOSES ON LOW PRESSURE	 GENERAL CONTRACTOR TO PROVIDE CONCRETE HOUSEKEEPING PADS ON ALL FLOOR AND GRADE MOUNTED ELECTRICAL EQUIPMENT, EQUIPMENT INDICATED ON THE DRAWINGS IS THE MINIMUM REQUIREMENT FOR HOUSEKEEPING PADS. ADDITIONAL PADS MAYBE REQUIRED BASED ON THE ELECTRICAL CONTRACTORS MOUNTING METHODS, ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR ALL HOUSEKEEPING PAD SIZES AND LOCATIONS. ALL CONDUIT AND EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND APPLICABLE LOCAL CODES. BONDING JUMPERS, CONDUIT CLAMPS AND POINTS OF ATTACHMENT ARE NOT SHOWN ON DWARNINGS SIZE BONDING JUMPERS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. THE POINTS OF ATTACHMENT OF THE GROUND CLAMPS SHALL BE ACCESSIBLE LOCATIONS. EQUIPMENT & CONDUIT INSTALLATIONS ARE SHOWN DIAGRAMMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH FEQUIPMENT AND STRUCTURAL CONDUITONS. EXPOSED CONDUITS SHALL BE INSTALLED PARALLEL TO BEAMS AND WALLS. CONDUITS SHALL BE TERMINATED SO AS TO PERMIT NEAT CONNECTIONS TO MOTORS AND OTHER EQUIPMENT. NO CONDUIT SMALLER THAN 3/4" PIPE SIZE NOR WIRE SMALLER THAN NO. 12 A.W.G. SHALL BE USED UNLESS OTHERWISE NOTED. RECEPTACLES AND SWITCHES SHALL BE MONTED 45" ABOVE FINISHED FLOOR. THE WIRING AND BLOCK DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL AND PROCESS EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS. 	

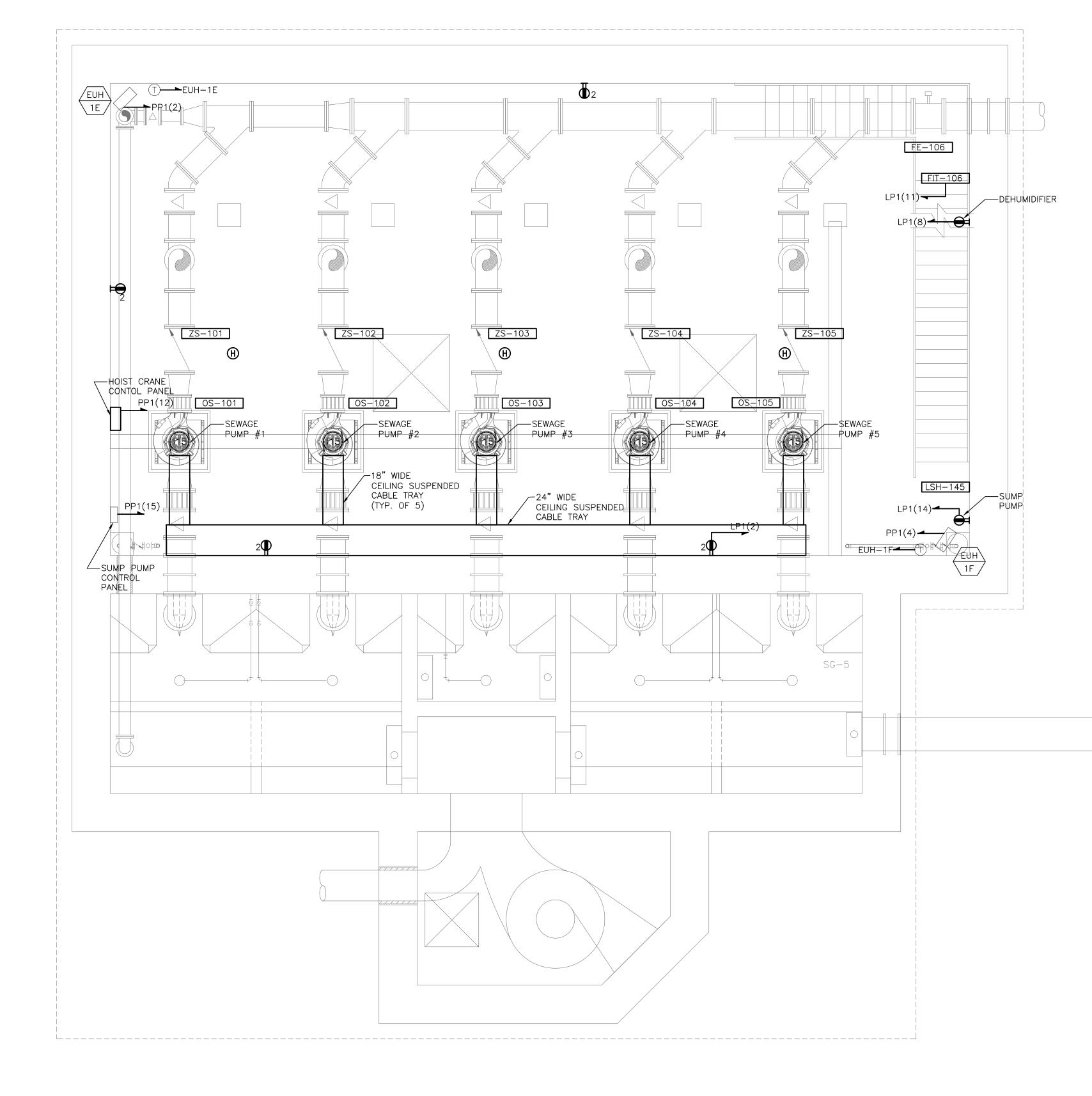
		PREPARED BY
		BETA
	ABBREVIATIONS	www.BETA-Inc.com
(2)1"C, 3#8, #10GND	2, 1—INCH CONDUITS EACH CONDUIT CONTAINING 3—#8 AWG WIRES AND 1—#10 GROUND CONDUCTOR	REGISTERED PROFESSIONAL
3/4"CE	EMPTY CONDUIT. NUMERAL DENOTES SIZE	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
AR	ALARM RELAY	
ATS	AUTOMATIC TRANSFER SWITCH	
CR	CONTROL RELAY	
CP	CONTROL PANEL	
DRG. DWG.	DRAWING	SUBCONSULTANT
EAN	EXCEPT AS NOTED	
EC	ELECTRICAL CONTRACTOR	
ETM	ELAPSED TIME METER	
FE	FLOW ELEMENT	ENGINEERING, INC.
FIT	FLOW INDICATOR TRANSMITTER	Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309
FS	FLOW SWITCH	Braintree, Massachusetts 02184 617 221-9220
		web: www.sar.com
FT	FLOW TRANSMITTER	
FVNR	FULL VOLTAGE NON-REVERSING	PROJECT
GND, GRD	GROUNDING CONDUCTOR (EQUIPMENT)	
НОА	HAND-OFF-AUTOMATIC	
НН	HANDHOLE	
J OR JB JPB	JUNCTION BOX JOG PUSHBUTTON	MAIN LIFT
LE	LEVEL ELEMENT	
LIT	LEVEL ELEMENT	PUMP STATION
LL	LOW LEVEL	
LS	LEVEL SWITCH	
LT	LEVEL TRANSMITTER	
МСС	MOTOR CONTROL CENTER	
MH	MANHOLE	TAUNTON, MA
MFR	MANUFACTURER	TITLE
NTS OH	NOT TO SCALE OVERHEAD	
OL	MOTOR OVERLOAD HEATER	
PB	PUSHBUTTON CONTROL STATION MOMENTARY	ELECTRICAL
	CONTACT TYPE, STOP START	LEGEND
PBL	PUSHBUTTON CONTROL STATION MOMENTARY TYPE WITH LOCK-OUT DEVICE, STOP-START	AND NOTES
РВМ	PUSHBUTTON CONTROL STATION MAINTAINED CONTACT TYPE, STOP START	
PIT PL	PRESSURE INDICATOR TRANSMITTER PUSHBUTTON CONTROL STATION MOMENTARY TYPE WITH LOCK-OUT DEVICE, STOP	
PS	PRESSURE SWITCH	
PT	PRESSURE TRANSMITTER	
RGS	RIGID GALVANIZED STEEL	
SPD	SURGE SUPPRESSOR DEVICE	
SOV	SOLENOID VALVE	
S/S	SOFT STARTER	
TB TD	TERMINAL BOX MOTOR TEMPERATURE DETECTOR	
TR	TIMING RELAY	
TS	TEMPERATURE SWITCH	
TSP	TWISTED SHEILDED PAIR	NO. REVISIONS DATE
TSTW	TWO SPEED TWO WINDING	DRAWN BY: RB
TYP	TYPICAL	DESIGNED BY: MC
UG VFD	UNDERGROUND VARIABLE FREQUENCY DRIVE	CHECKED BY: MC
WP	WATER PROOF	
		ISSUE DATE: 02/26/21
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		E-1



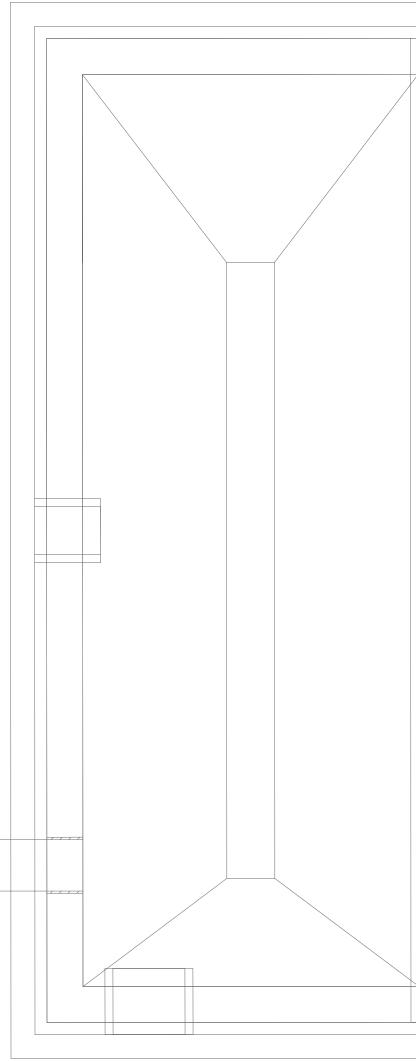
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	Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 221-9220 web: www.sar.com
	PROJECT
	MAIN LIFT
	PUMP STATION
MAIN DISTRIBUTION PANEL (MDP) 1200A, 277/480V,	
1200A, 277/480V, 3-PHASE, 4-WIRE 65KAIC	TAUNTON, MA
$ \begin{array}{c c} & & & \\ & & \\ \end{pmatrix} \frac{100}{100} & & \\ \end{array} \begin{array}{c} \frac{50}{100} & (2) & 3-\text{POLE} \end{array} $	TITLE
GFI GFI SPARE SPACES	ELECTRICAL ONE LINE DIAGRAM
$\rightarrow \rightarrow $	
TRANSFORMER 30KVA, XFMR1	
TRANSFORMER 30KVA, XFMR1 480/120/208V	
277/480V 200A MCB 42 CKT	
277/480V P14	Image: Sector
Z77/480V 200A MCB 42 CKT NEW PP1 PANEL TRANSFORMER 30KVA, XFMR1 480/120/208V 120/208V	Image:
Z77/480V 200A MCB 42 CKT NEW PP1 PANEL BOARD	Image:
277/480V TRANSFORMER 200A TRANSFORMER 30KVA, XFMR1 480/120/208V P14 P14 120/208V 120/208V NEW PP1 PANEL BOARD NEW LP1 PANEL NEW LP1 PANEL	Image: NO. REVISIONS DRAWN BY: RB
Z77/480V 200A MCB 42 CKT NEW PP1 PANEL BOARD	DRAWN BY: RB DESIGNED BY: MC
277/480V TRANSFORMER 200A TRANSFORMER 30KVA, XFMR1 480/120/208V P14 P14 120/208V 120/208V NEW PP1 PANEL BOARD NEW LP1 PANEL NEW LP1 PANEL	DRAWN BY: RB
277/480V TRANSFORMER 200A TRANSFORMER 30KVA, XFMR1 480/120/208V P14 P14 120/208V 120/208V NEW PP1 PANEL BOARD NEW LP1 PANEL NEW LP1 PANEL	DRAWN BY:RBDESIGNED BY:MCCHECKED BY:MCISSUE DATE:02/26/21BETA JOB NO.:5530-000
Z77/480V 200A MCB 42 CKT NEW PP1 PANEL BOARD	DRAWN BY:RBDESIGNED BY:MCCHECKED BY:MCISSUE DATE:02/26/21
Z77/480V 200A MCB 42 CKT NEW PP1 PANEL BOARD	DRAWN BY:RBDESIGNED BY:MCCHECKED BY:MCISSUE DATE:02/26/21BETA JOB NO.:5530-000
277/480V TRANSFORMER 200A TRANSFORMER 30KVA, XFMR1 480/120/208V P14 P14 120/208V 120/208V NEW PP1 PANEL BOARD NEW LP1 PANEL NEW LP1 PANEL	DRAWN BY:RBDESIGNED BY:MCCHECKED BY:MCISSUE DATE:02/26/21BETA JOB NO.:5530-000
277/480V TRANSFORMER 200A TRANSFORMER 30KVA, XFMR1 480/120/208V P14 P14 120/208V 120/208V NEW PP1 PANEL BOARD NEW LP1 PANEL NEW LP1 PANEL	DRAWN BY: RB DESIGNED BY: MC CHECKED BY: MC ISSUE DATE: 02/26/21 BETA JOB NO.: 5530-000 SCALE VILESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION



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Mechanical/Electrical Engineers 10 Granite Street Quincy, Massachusetts 02169 617 328-9216 web: www.sar.com
PROJECT
MAIN LIFT PUMP STATION
ELECTRICAL SITE PLAN
Image: Constraint of the second se
NO. REVISIONS DATE
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CHECKED BY: MC
ISSUE DATE: 06/13/18
BETA JOB NO.: 5530-000
SCALE
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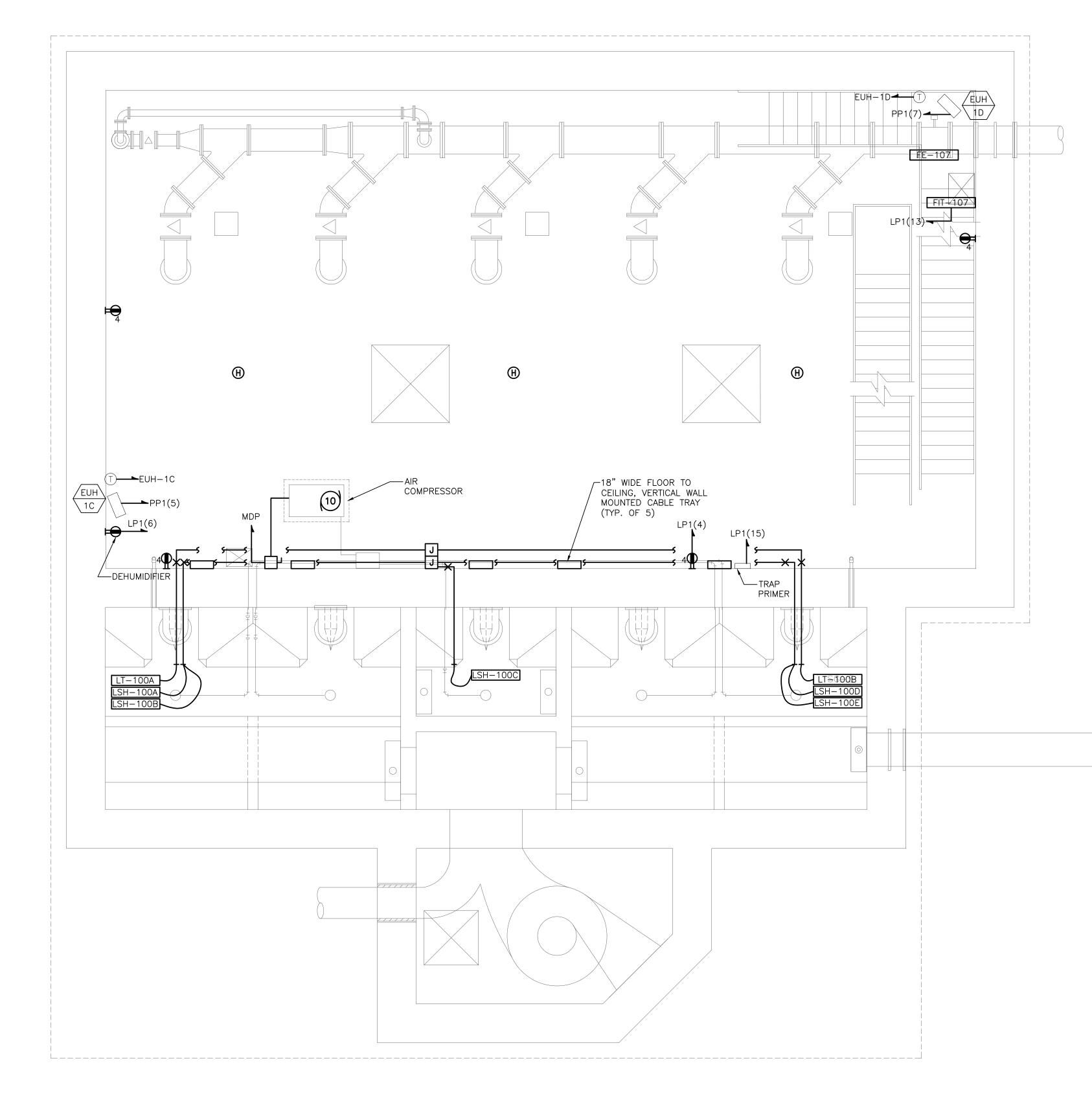




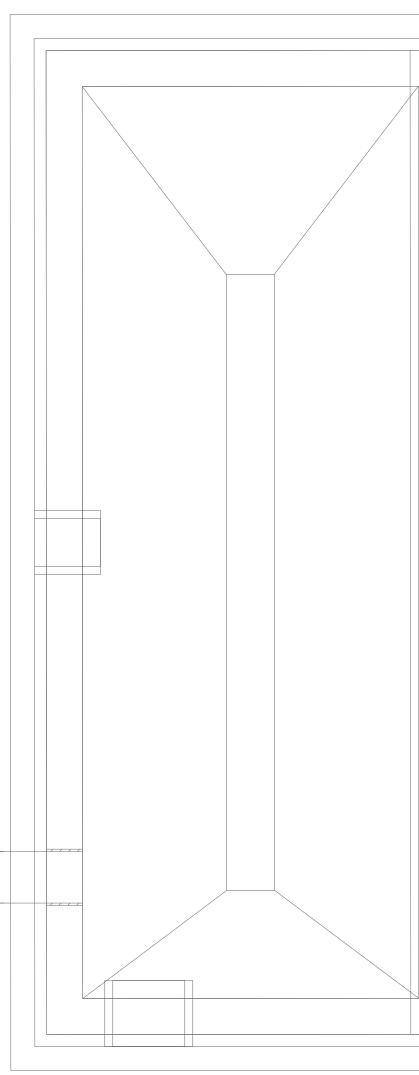


BASEMENT LEVEL POWER AND LOW VOLTAGE PLAN SCALE: 1/4 " = 1'

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	SEGISTERED PROFESSIONAL
	SUBCONSULTANT
	SSARR ENGINEERING, INC. Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 221-9220 web: www.sar.com
	PROJECT
EXISTING PUMP	MAIN LIFT PUMP STATION
STATION	
	TAUNTON, MA
	BASEMENT LEVEL POWER AND LOW VOLTAGE PLAN
	NO. REVISIONS DATE
	DRAWN BY: RB DESIGNED BY: MC
	CHECKED BY: MC
	ISSUE DATE: 02/26/21
	BETA JOB NO.: 5530-000
	SCALE
	For Review Only
	SHEET NO. E-4

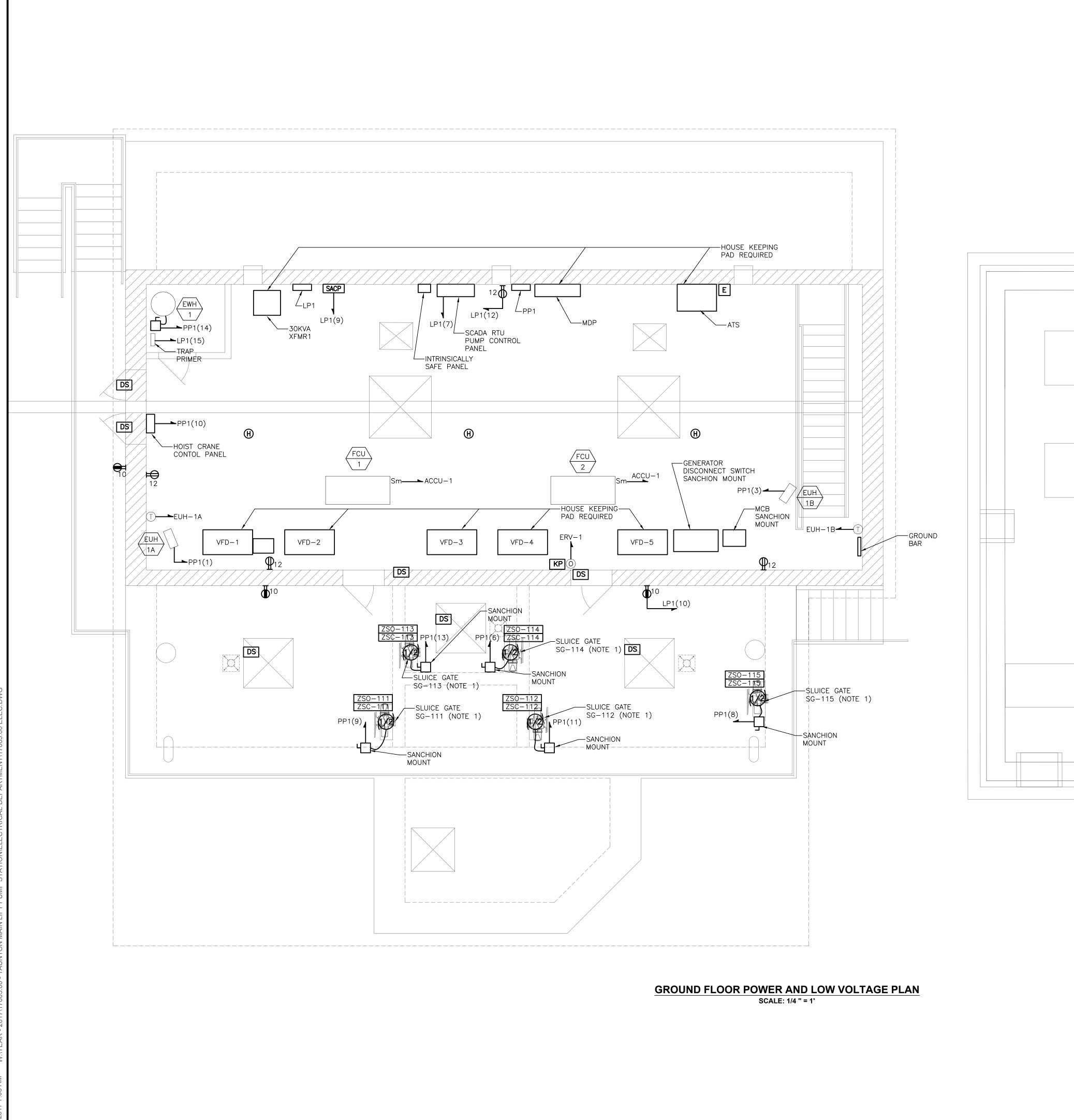




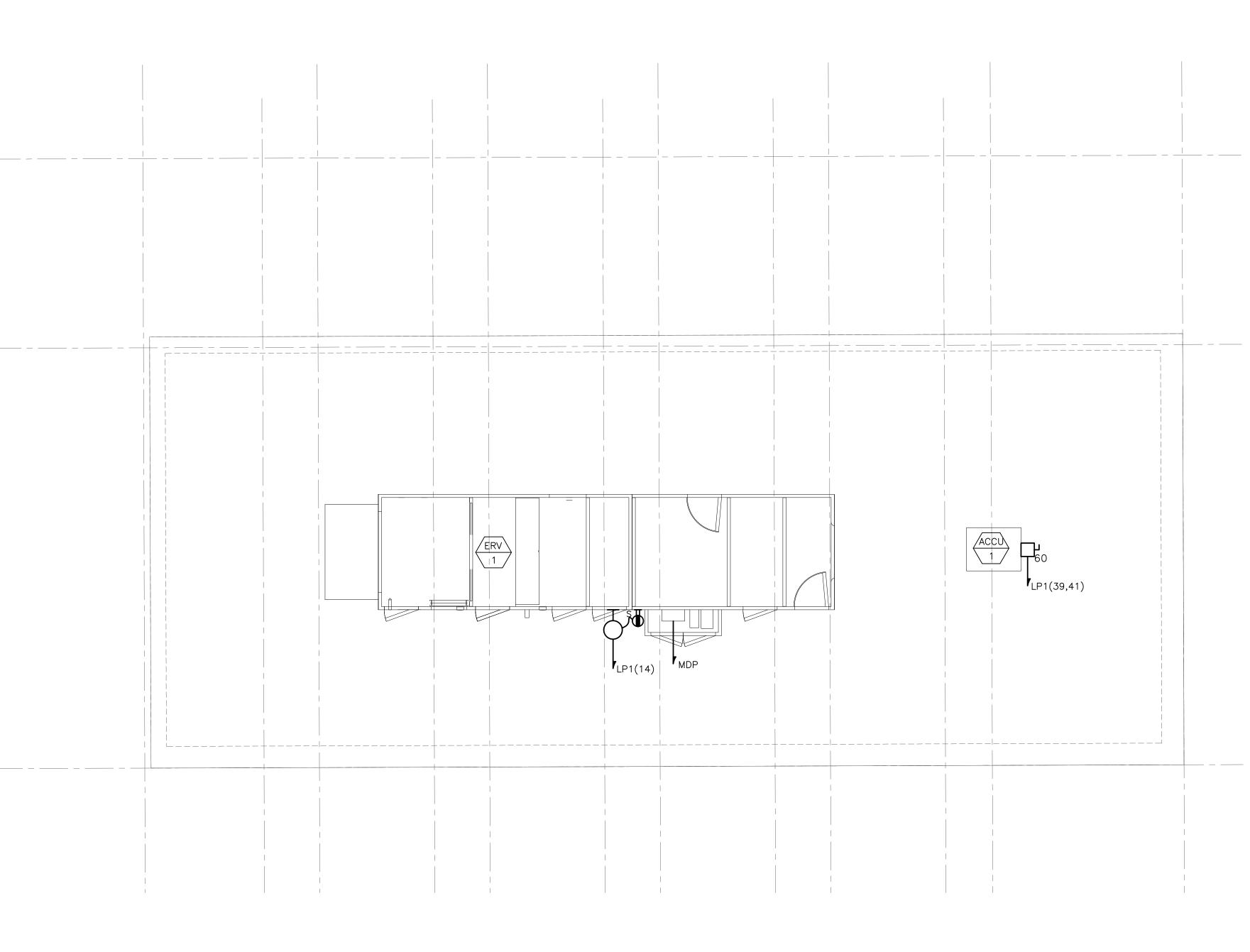


MEZZANINE LEVEL POWER AND LOW VOLTAGE PLAN SCALE: 1/4 " = 1'

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	SUBCONSULTANT
	SEARCH STATES AND
	PROJECT
	MAIN LIFT
	PUMP STATION
EXISTING PUMP	
STATION	TAUNTON, MA
	TITLE
	MEZZANINE
	LEVEL POWER AND
	LOW VOLTAGE PLAN
	NO. REVISIONS DATE DRAWN BY: RB
	DESIGNED BY: MC
	CHECKED BY: MC ISSUE DATE: 02/26/21
	BETA JOB NO.: 5530-000
	SCALE
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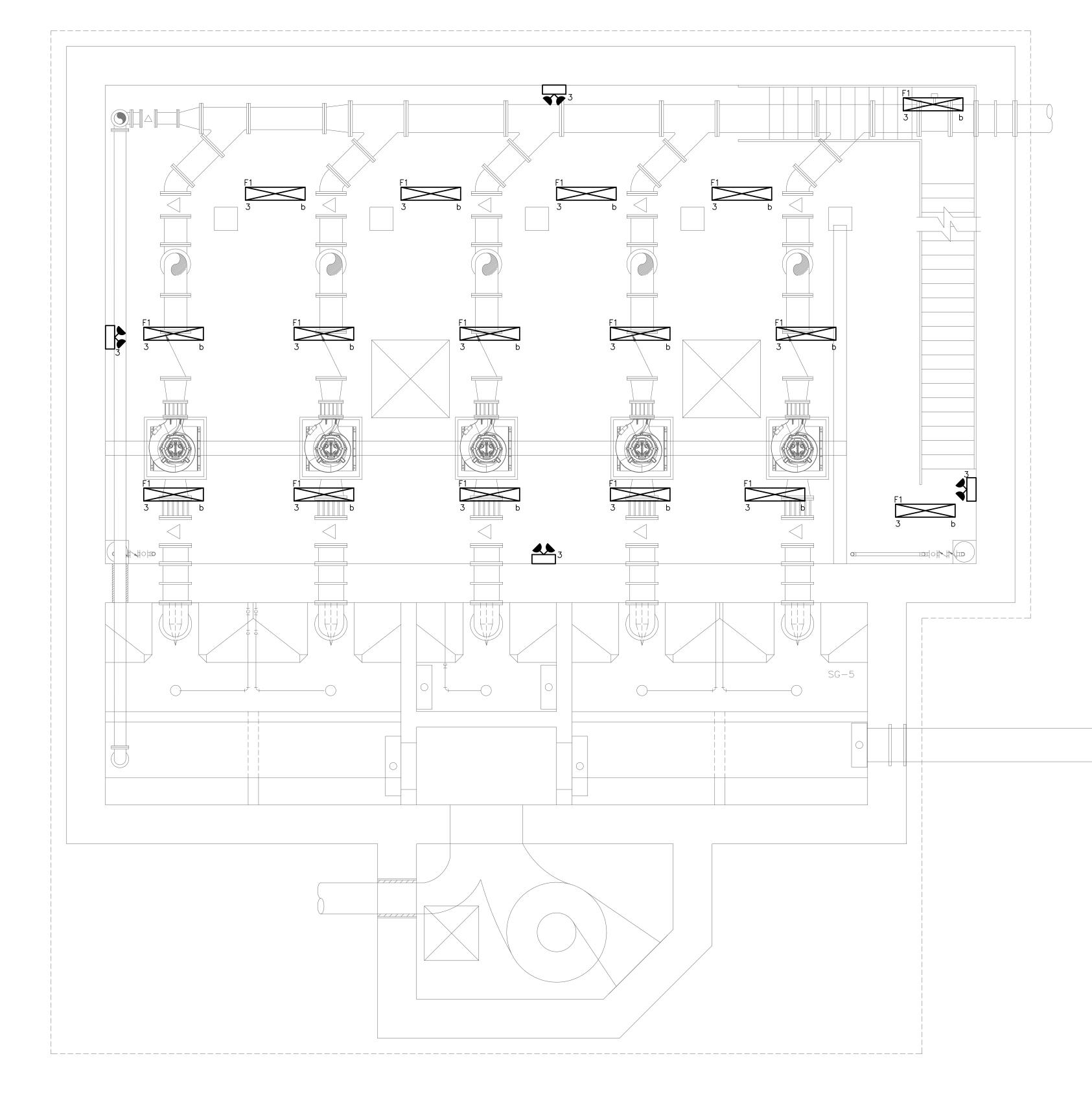


NOTES: 1. ALL CONDUIT FOR WIRING ASSOCIATED WITH THE SLUICE GATES SHALL BE INSTALLED WITHIN THE WET WELL ON THE UNDERSIDE ROOF SLAB OF THE WET WELL.	PREPARED BY Set a la l
EXISTING PUMP STATION	SUBCONSULTANT SSECCEDERING, INC. BY BY AND
	Intervise noted or changed by reproduction

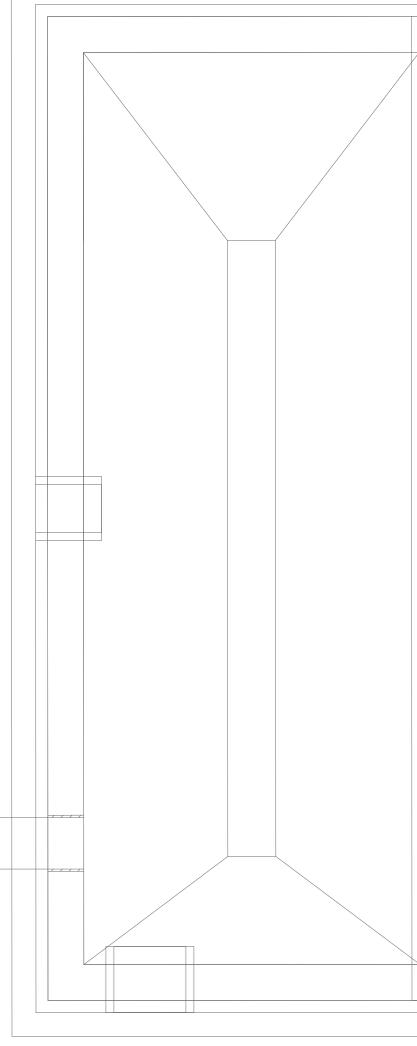


ROOF POWER PLAN SCALE: 1/4 " = 1'

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REGISTERED PROFESSIONAL	
SUBCONSULTANT	
State Engineering, inc. Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 221-9220 web: www.sar.com	
PROJECT	
MAIN LIFT	
	I
TAUNTON, MA	
TITLE	
ROOF POWER PLAN	
NO. REVISIONS	DATE
DRAWN BY: RB	
DESIGNED BY: MC	
CHECKED BY: MC	
ISSUE DATE: 02/26/21	
BETA JOB NO.: 5530-000	
SCALE	
UNLESS OTHERWISE NOTED OR CHANGED BY REPROD	
For Review O	nlv
SHEET NO.	J
E-7	

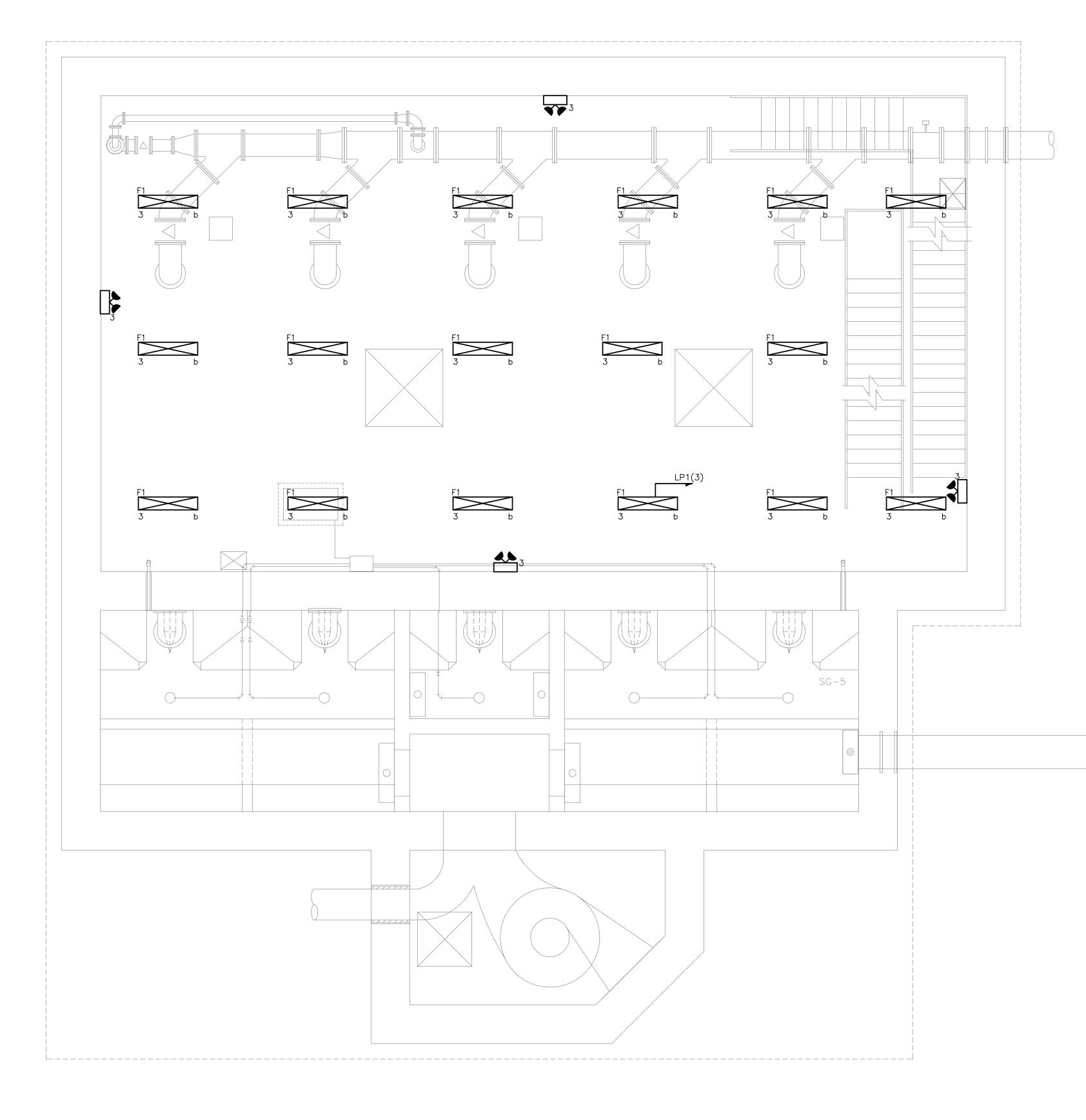




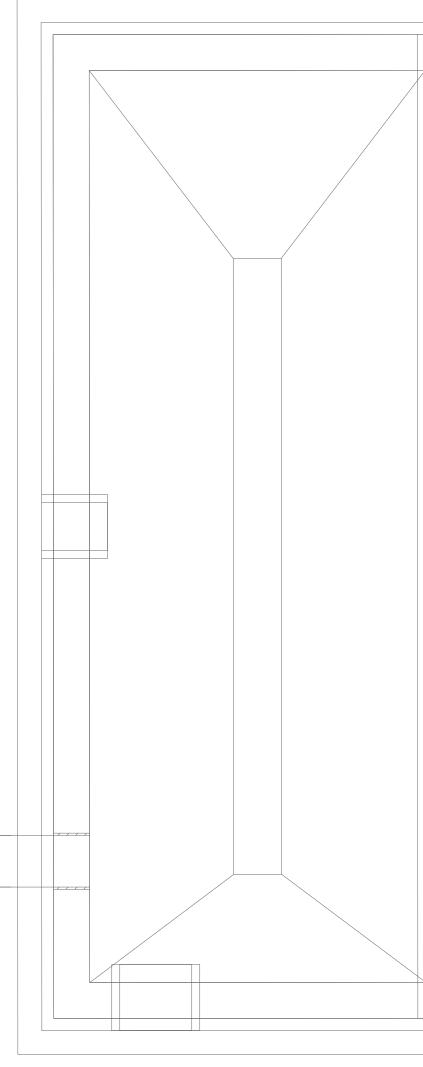


BASEMENT LEVEL LIGHTING PLAN SCALE: 1/4 " = 1'

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	SUBCONSULTANT
	Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 221-9220 web: www.sar.com
	PROJECT MAIN LIFT
EXISTING PUMP	PUMP STATION
STATION	TAUNTON, MA
	TITLE
	BASEMENT LEVEL LIGHTING PLAN
	NO. REVISIONS DATE
	DRAWN BY: RB
	DESIGNED BY: MC CHECKED BY: MC
	ISSUE DATE: 02/26/21
	BETA JOB NO.: 5530-000
	SCALE
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	SHEET NO. E-8
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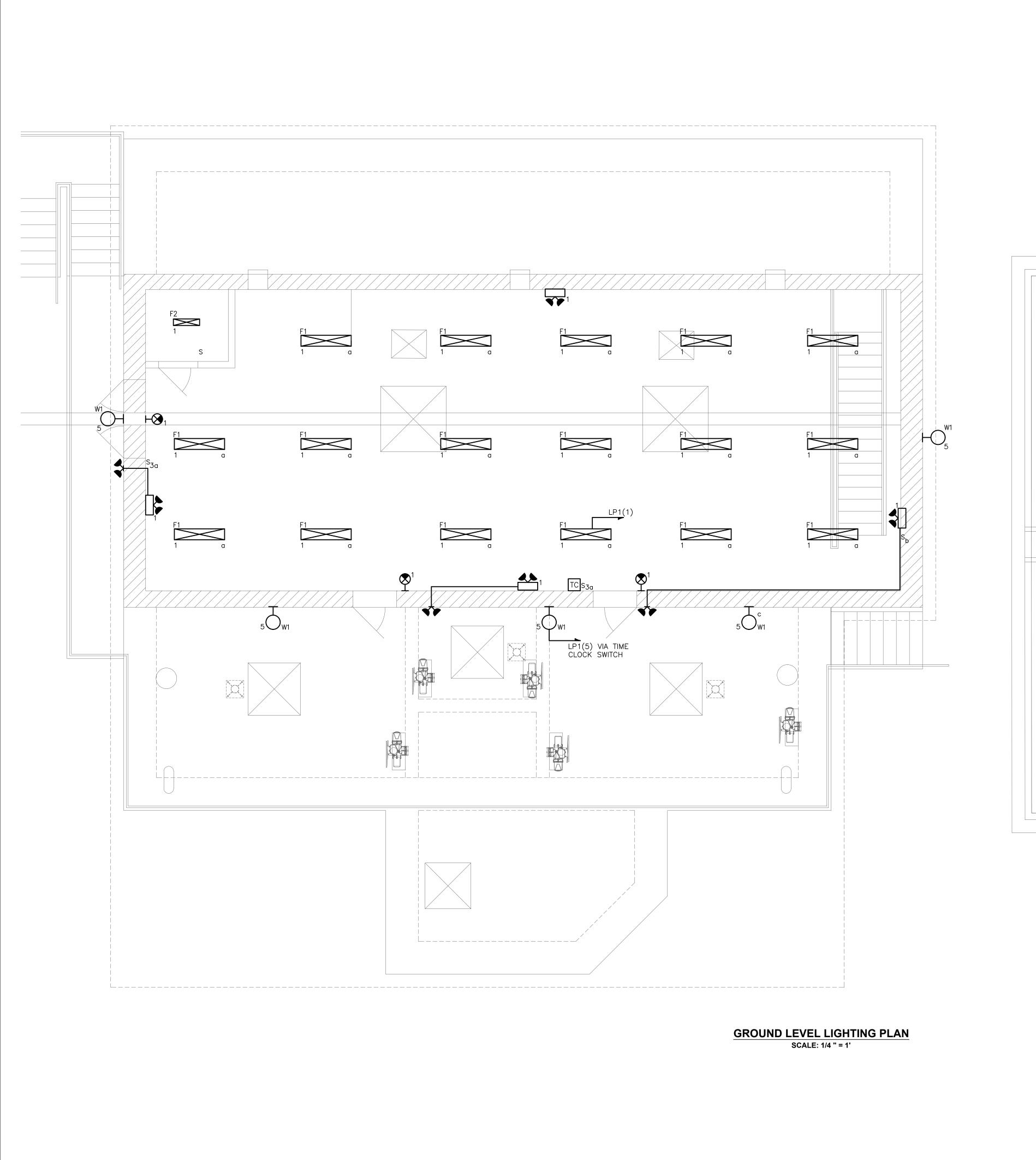






MEZZANINE LEVEL LIGHTING PLAN SCALE: 1/4 " = 1'

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	SUBCONSULTANT
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	Braintree, Massachusetts 02184 617 221-9220 web: www.sar.com
	PROJECT
	MAIN LIFT
	PUMP STATION
EXISTING PUMP	
STATION	
	TAUNTON, MA
	MEZZANINE LEVEL
	LIGHTING
	PLAN
	NO. REVISIONS DATE DRAWN BY: RB
	DESIGNED BY: MC
	CHECKED BY: MC ISSUE DATE: 02/26/21
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	SCALE
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	Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 221-9220 web: www.sar.com
	PROJECT
	MAIN LIFT
	PUMP STATION
EXISTING PUMP	
STATION	TAUNTON, MA
	TITLE
	GROUND LEVEL
	LIGHTING
	PLAN
	NO. REVISIONS DATE
	DRAWN BY: RB DESIGNED BY: MC
	CHECKED BY: MC
	ISSUE DATE: 02/26/21
	BETA JOB NO.: 5530-000 SCALE
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	For Review Only
	E-10

		LIGH	ring f	IXTURE	SCHE	DULE	_		
TYPE	DESCRIPTION	MANUFACTURER & CATALOG SERIES	L TYPE	AMPS LUMENS	VOLTS	WATTS	TYPE	MOUNTING HEIGHT	REMARKS
F1	48" LED ENCLOSED AND GASKETED INDUSTRIAL LIGHTING FIXTURE.	LITHONIA FEM-L48-4000LM-IMAFL- MVOLT-35K-80CRI	LED 3500К	3615lm	120	24	PENDENT	11'AFF – GROUND LEVEL 14'AFF – MEZZ. LEVEL 15'AFF – BASEMENT LEVEL	_
F2	24" LED ENCLOSED AND GASKETED INDUSTRIAL LIGHTING FIXTURE.	LITHONIA DMW2–L24–2000LM–AFL–MD– MVOLT–35K–80CRI	LED 3500К	2000lm	120	14	CEILING	_	_
W1	EXTERIOR BUILDING MOUNTED LED WALL PACK LIGHT FIXTURE	LITHONIA TWP-LED-20C-700-50K- T3M-MVOLT-DDXB	LED 5000К	4233lm	120	45	WALL	12' AFG	FIXTURE CIRCUIT TO BE CONNECTED TO AND CONTROLLED BY A LIGHTING CONTR PANEL
W2	EXTERIOR BUILDING MOUNTED LED MINI WALL PACK LIGHT FIXTURE	LITHONIA TWS-LED-P1-50K	LED 5000К	1476lm	120	25	WALL	REPLACE EXISTING IN PLACE	EXISTING FIXTURE CIRCUIT TO BE UTILIZE
	SELF CONTAINED EMERGENCY LIGHTING BATTERY UNIT NEMA 4 WITH TWO LIGHTING HEADS	REFER TO SPECIFICATIONS			120	8W	WALL		INSTALL 3/4"C, 2#12, 1#12GND TO REMOTE HEADS
4_6	SEALED-BEAM WEATHERPROOF REMOTE LIGHTING FIXTURE WITH TWO LIGHTING HEADS	REFER TO SPECIFICATIONS			120	8W	WALL		
	EMERGENCY EXIT SIGN LED TYPE WITH BATTERY BACK-UP NEMA 4X	REFER TO SPECIFICATIONS			120		WALL		

LIGHTING FIXTURE SCHEDULES NOTES:

THE CATALOG NUMBERS LISTED ARE GIVEN AS A GUIDE TO THE DESIGN AND QUALITY OF FIXTURE DESIRED. EQUIVALENT DESIGNS, MATERIALS, DIMENSIONS, COEFFICIENT OF UTILIZATIONS AND EQUAL QUALITY FIXTURES OF OTHER MANUFACTURERS WILL BE ACCEPTABLE.

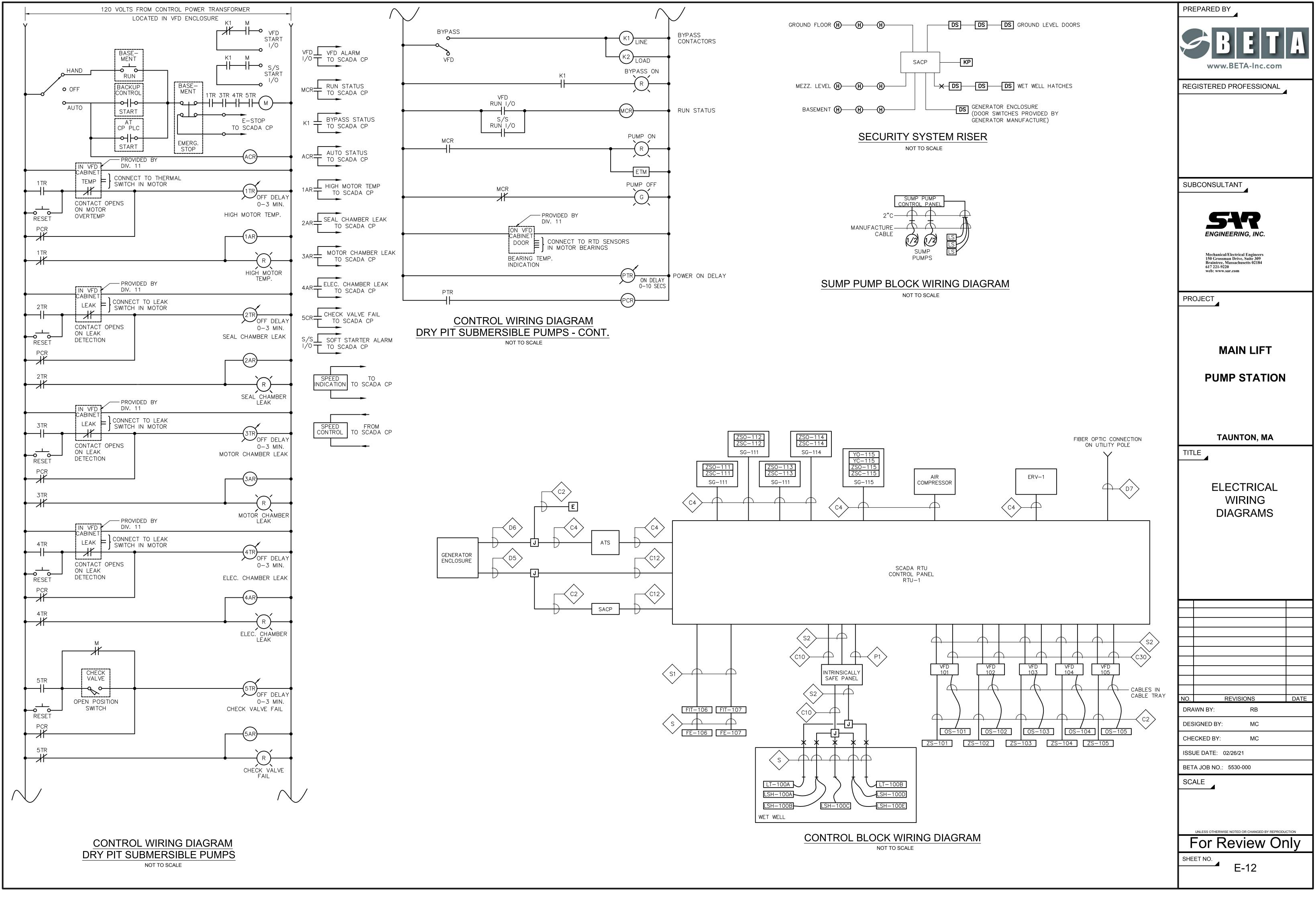
		F	PAN	IELE	80A	RD	S	CHE	DUL	E				
NO. <u>LP1</u>											LO	CATIO	N: CONTROL ROOM	
	120/208 V, <u>3</u> PH, <u>4</u> W, <u>100</u> A MAINS <u>100</u>										100) A	MCB	
<u> 10,000 </u> AIC AT <u> 120 </u> V	_100) A	GROU	JND BL	JS							A	MLO <u>SURFACE</u> MOUNTING	
DESCRIPTION OF LOAD	LOA	AD (K	VA)	BRE	AKER			BRE	AKER	LOA	D (K	VA)	DESCRIPTION OF LOAD	
	AØ	Вø	Cø	TRIP	POLE		[POLE	TRIP	AØ	Вø	Cø	DESCRIPTION OF LOAD	
1 GROUND FLOOR LIGHTING	0.6			20	1	1∔	╞┿╏	1	20	0.8			BASEMENT RECEPTACLES	
3 MEZZ. & BASEMENT FLOOR LIGHTING		1.1		20	1	┨┼┥	┝┿╏	1	20		0.8		MEZZ. FLOOR RECEPTACLES	
5 EXTERIOR LIGHTS VIA TIME CLOCK SWITCH			0.3	20	1	1+-	├ ╋Ĭ	1	20			0.9	MEZZ. DEHUMIDIFIER	
7 SCADA RTU CONTROL PANEL	1.0			20	1	1∳-	ľ	1	20	0.9			BASEMENT DEHUMIDIFIER	
9 SECURITY ALARM CONTROL PANEL		0.5		20	1	┨╄╼┫	┝┿╏	1	20		0.6		EXTERIOR RECEPTACLES	
11 FORCE MAIN A FLOW METER			0.1	20	1	1+-	╞┿╏	1	20			0.8	GROUND FLOOR RECEPTACLES	
13 FORCE MAIN B FLOW METER	0.1			20	1]∳-	 ++[1	20	0.5			ERV-1 RECEPTACLES AND LIGHTS	
15 TRAP PRIMERS		0.2		20	1	┨┼┥	┝┿╏	1	20		_		SPARE	
17 SPARE			-	20	1	1+-	╞┿╏	1	20			-	SPARE	
19 SPARE	-			20	1]∳-	H	1	20	-			SPARE	
21 SPARE		-		20	1	┨┼┥	┝ ┿╏	1	20		_		SPARE	
23 SPARE			-	20	1]+-	╞┿[1	20			Ι	SPARE	
25 SPARE	-			20	1]+-	++[1	20	-			SPARE	
27 SPARE		-		20	1	┨┼┥	┝ ┿╏	1	20		_		SPARE	
29 SPARE			-	20	1]+-	╞┿╽	1	20			_	SPARE	
31 SPARE	-			20	1]✦-	HI	1	20	-			SPARE	
33 SPARE		-		20	1	┦┼┥	┝ ┿╿	1	20		_		SPARE	
35 SPARE			_	20	1]+-	├ ∳[1	20			1.0	GENERATOR ALTERNATOR HEATER	
37 SPARE	-			20	1]+-	++[1	20	0.5			GENERATOR BATTERY CHARGER	
39 ACCU-1		3.3		40	2]—4	▶+-[2	30		2.0		GENERATOR BLOCK JACKET HEATER	
41 41			3.3	40	2		- •	Z	50			2.0	SENERATOR DECOR GACKET HEATER	
SUB-TOTAL CONNECTED	1.7	5.1	3.7							2.7	2.9	4.2	SUB-TOTAL CONNECTED	
* PROVIDE GFCI BREAKER														
				S	UB-TO	DTAL	CON	NECTE	C	K	VA A	Ø =	4.4	
				S	UB-TO	DTAL	CON	NECTEI)	K	VA B	Ø =	8.0	
				S	UB-T	DTAL	CON	NECTEI)	K	VA C	Ø =	7.9	
				Т	OTAL	CONN	IECTE	D		K	VA =		20.3	

	POWER CA	BLE/CONDUIT	SCHEDUL	E				SI	IGNAL	CABLE/CO	ONDUIT S	CHEDU	LE	
SYMBOL	CONDUIT SIZE*	CONDUCTORS*	(GND*		S	YMBOL			CONDUIT SIZE		CON	NDUCTORS	
P1 P2	3/4" 3/4"	(2)#12 (3)#12)#12)#12		\downarrow	S S1			1"			ER SPECIFIEI)
Р3	3/4"	(2)#10	(*)#10		1	S1 S13			<u>3/4"</u> <u>3/4"</u>		1-3	2/C#16 TSP 3/C#16 TSP	
P4 P5	3/4" 3/4"	(3)#10 (3)#8	(*)#10)#10		1	S2 S23			3/4" 3/4"		2-3	2/C#16 TSP 3/C#16 TSP	
P6 P7	3/4" 1"	<u>(4)#8</u> (3)#6)#10 1)#8		┥┝	<u>S3</u> S33			1 " 1 "			<u>2/C#16_TSP</u> 3/C#16_TSP	
P8 P9	1" 1 1/4"	(4)#6 (3)#4	(1)#8 1)#8]	S4 S5			1"		4-2	2/C#16 TSP 2/C#16 TSP	
P10	1 1/4"	(4)#4	(1)#8		1	S6			1 1/2"		6-2	2/C#16 TSP	
P11 P12	1 1/2" 1 1/2"	(3)#3 (4)#3	(1)#6 1)#6		1 🗄	S7 S8			<u>1 1/2"</u> <u>1 1/2"</u>		8-2	<u>2/C#16 TSP</u> 2/C#16 TSP	
P13 P14	1 1/2" 1 1/2"	<u>(3)#2</u> (4)#2		1)#6 1)#6		╡┝	<u> </u>			<u>1 1/2"</u> 2"			2/C#16 TSP 2/C#16 TSP	
P15 P16	2" 2"	<u>(3)#1</u> (4)#1		1)#6 1)#6			TC1			3/4"			8/C#18	
P17 P18	2" 2"	(3)#1/0 (4)#1/0	(1)#6 1)#6		1 Г			TE	_E/DATA CABLE/(
P19	2 1/2"	(3)#2/0	(1)#6		1 -					SONDOIT SCILD			
P20 P21	2 1/2" 2 1/2"	(4)#2/0 (3)#3/0	(1)#6 1)#4		S)	YMBOL			CONDUIT SIZE			DUCTORS	
P22 P23	<u>2 1/2"</u> 3"	<u>(4)#3/0</u> (3)#4/0		1)#4 1)#4		┥┝	TD1 TD2			1"			CAT6 CABLE	
P24 P25	3" 4"	(4)#4/0 (4)500KCMIL	(1)#4)#2/0		╡└	TDZ	<u> </u>		I		2-0	ATO CABLE	
120				<i>π2</i> / 0		1			С	ONTROL CABLE/CO	ONDUIT SCHEDU	ILE		
						Sì	YMBOL			CONDUIT SIZE		CONI	DUCTORS	
							C2	<u> </u>		3/4"			2#14	
							C4 C5			3/4" 3/4"			4#14 5#14	
							C6 C7			3/4" 3/4"			6#14 7#14	
						F	C8 C9			3/4" 3/4"			8#14 9#14	
							C10 C12			<u> </u>			10#14	
							C16			<u> </u>			<u>12#14</u> 16#14	
							C20 C30			1" 1"			20#14 30#14	
			TED.		ARE TO	D BE PE	ER THE /	ABOVE SC	CHEDULES	UNLESS				
							CHED		CHEDULES	UNLESS				
NO. <u>PP1</u>										DN: <u>Control rooi</u>	м			
277/48	30_V, <u>3</u> PH, <u>4</u> W	', <u>100</u> A MAINS	PAN A SOLI	JELB d neutf	OAR				LOCATI	DN: <u>Control roo</u>		<u> </u>		
277/48	80_V, <u>3</u> PH, <u>4</u> W 0_AICAT <u>277</u> V		PAN	JELB d neutf	OAR Ral s			OULE	LOCATI	DN: <u>Control roo</u>	ACE MOUNTING			
277/48	30_V, <u>3</u> PH, <u>4</u> W		PAN A SOLI A GRO LOAD (KVA) AØ BØ CØ	D NEUTF UND BUS BREA	OAR Ral s	2D S(CHED	OULE ER LC TRIP AØ	LOCATI 	DN: <u>CONTROL ROOM</u>				
277/48	80_V, <u>3</u> PH, <u>4</u> W 0_AICAT <u>277</u> V	DF LOAD	PAN A SOLI A GRO LOAD (KVA) AØ BØ CØ 1.7	D NEUTF UND BUS BREA	OAR Ral s	2D S(BREAK	OULE Er LC	LOCATI 	DN: <u>CONTROL ROOM</u>	TACE MOUNTING	DF LOAD		
277/48 10,000	30_V, <u>3</u> _PH, <u>4</u> _W 0_AIC_AT_ <u>277_</u> V DESCRIPTION (DF LOAD H—1A	100 A SOLI 100 A SOLI 100 A GRO LOAD (KVA) AØ BØ CØ 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	D NEUTF UND BUS BREA TRIP	OAR RAL S KER POLE	2D S(BREAK POLE	ULE ER LC TRIP Aø 1.7	LOCATI 	DN: <u>CONTROL ROOM</u>	DESCRIPTION C	DF LOAD EUH—1E		2
277/48 10,000 GROUN GROUN	30_V, <u>3</u> PH, <u>4</u> W 0_AICAT <u>277</u> V DESCRIPTION (DF LOAD H-1A H-1B	100 A SOLI 100 A SOLI 100 A GRO LOAD (KVA) Aø Bø Cø 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	D NEUTR UND BUS BREA TRIP 20	OAR RAL S KER POLE	2D S(CHEC BREAK POLE 3 3	OULE ER LC TRIP Aø 20 1.7	LOCATI 	DN: CONTROL ROOM	TACE MOUNTING DESCRIPTION C - UNIT HEATER	DF LOAD EUH—1E		2
277/48 10,000 GROUN GROUN MEZZ.	30 V, <u>3</u> PH, <u>4</u> W 0 AIC AT <u>277</u> V DESCRIPTION O ND LEVEL UNIT HEATER EUH ND LEVEL UNIT HEATER EUH	DF LOAD H-1A H-1B	100 A SOLI 100 A SOLI 100 A GRO 100 A GRO 100 KVA) AØ BØ CØ 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	D NEUTF UND BUS BREA TRIP 20 20	OAR RAL S KER POLE 3 4 3	2D S(CHEC BREAK POLE 3 3 3	ULE ER LC IRIP Aø 20 1.7 20 1.7 20 1.7 0.3	LOCATI 	DN: CONTROL ROOM	ACE MOUNTING DESCRIPTION C UNIT HEATER	DF LOAD EUH—1E		2
277/48 10,000 GROUN GROUN MEZZ.	30 V, <u>3</u> PH, <u>4</u> W 0 AIC AT <u>277</u> V DESCRIPTION O ND LEVEL UNIT HEATER EUH ND LEVEL UNIT HEATER EUH	DF LOAD H-1A H-1B	100 A SOLI 100 A SOLI 100 A GRO 100 A GRO 100 KVA) AØ BØ CØ 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	D NEUTF UND BUS BREA TRIP 20 20 20 20 20 20	OAR RAL S KER POLE 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2D S(CHEC BREAK POLE 3 3 3 3	ULE ER LC TRIP Aø 1.7 20 1.7 20 1.7 20 1.7 0.3 0.3 0.3	LOCATI 	DN: CONTROL ROOM MCB MLOSURF BASEMENT LEVEN BASEMENT LEVEN SLUICE GATE SG SLUICE GATE SG HOIST CRANE GF	ACE MOUNTING DESCRIPTION C UNIT HEATER UNIT HEATER	DF LOAD EUH—1E		2 2 6 8
277/48 10,000 GROUN GROUN MEZZ.	30 V, <u>3</u> PH, <u>4</u> W 0 AIC AT <u>277</u> V DESCRIPTION O ND LEVEL UNIT HEATER EUH ND LEVEL UNIT HEATER EUH LEVEL UNIT HEATER EUH-	DF LOAD H-1A H-1B	100 A SOLI 100 A SOLI 100 A GRO 100 A GRO 100 A GRO 101 AØ AØ BØ CØ 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 0.3 1.7 0.3 0.3	D NEUTF UND BUS BREA TRIP 20 20 20 20 20 20 20 20	OAR RAL S KER POLE 3 4 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4	2D S(BREAK POLE 3 3 3 3 3	DULE ER LC TRIP Aø 1.7 20 1.7 20 1.7 20 0.3 20 0.3 20 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	LOCATI 	DN: CONTROL ROOM MCB MLO BASEMENT LEVEN BASEMENT LEVEN BASEMENT LEVEN SLUICE GATE SG SLUICE GATE SG HOIST CRANE GF	ACE MOUNTING DESCRIPTION C UNIT HEATER UNIT HEATER -4 -5 ROUND FLOOR	DF LOAD EUH—1E		2 2 6 8
277/48 10,000 GROUN GROUN MEZZ. MEZZ. MEZZ.	30 V, <u>3</u> PH, <u>4</u> W 0 AIC AT <u>277</u> V DESCRIPTION O ND LEVEL UNIT HEATER EUH ND LEVEL UNIT HEATER EUH LEVEL UNIT HEATER EUH- LEVEL UNIT HEATER EUH-	DF LOAD H-1A H-1B	100 A SOLI 100 A SOLI 100 A GRO 100 A GRO 100 A GRO 101 AØ AØ BØ CØ 1.7 I 1.7 I 1.7 I I </td <td>ELB D NEUTF UND BUS BREA TRIP 20 20 20 20 20 20 20 20 20 20</td> <td>OAR RAL S KER POLE 3 4 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4</td> <td>2D S(</td> <td>CHEC POLE 3 3 3 3 3 3 3</td> <td>DULE ER LC TRIP Aø 1.7 20 1.7 20 1.7 20 0.3 20 0.3 20 0.6 0.6</td> <td>LOCATI </td> <td>DN: CONTROL ROOM MCB MLO BASEMENT LEVEN BASEMENT LEVEN BASEMENT LEVEN SLUICE GATE SG SLUICE GATE SG HOIST CRANE GF</td> <td>ACE MOUNTING DESCRIPTION C UNIT HEATER UNIT HEATER - 4 </td> <td>DF LOAD</td> <td></td> <td>2 4 6 11 11</td>	ELB D NEUTF UND BUS BREA TRIP 20 20 20 20 20 20 20 20 20 20	OAR RAL S KER POLE 3 4 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4	2D S(CHEC POLE 3 3 3 3 3 3 3	DULE ER LC TRIP Aø 1.7 20 1.7 20 1.7 20 0.3 20 0.3 20 0.6 0.6	LOCATI 	DN: CONTROL ROOM MCB MLO BASEMENT LEVEN BASEMENT LEVEN BASEMENT LEVEN SLUICE GATE SG SLUICE GATE SG HOIST CRANE GF	ACE MOUNTING DESCRIPTION C UNIT HEATER UNIT HEATER - 4 	DF LOAD		2 4 6 11 11
277/48 10,000 GROUN GROUN MEZZ. MEZZ. MEZZ. SLUICE	30 V, <u>3</u> PH, <u>4</u> W 0 AIC AT <u>277</u> V DESCRIPTION O ND LEVEL UNIT HEATER EUH ND LEVEL UNIT HEATER EUH LEVEL UNIT HEATER EUH- LEVEL UNIT HEATER EUH- E GATE SG-1 E GATE SG-2	DF LOAD H-1A H-1B	IOO A SOLI 100 A SRO 100 A GRO 100 I.7 I 1.7 I I <	ELB D NEUTF UND BU 3 20 20 20 20 20 20 20 20 20 20	OAR RAL S KER POLE 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	2D S(CHEC POLE 3 3 3 3 3 3 3	DULE ER LC TRIP Aø 1.7 20 1.7 20 1.7 20 0.3 20 0.3 20 0.3 1.7 20 1.7 0.3 0.3 0.3 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	LOCATI 	DN: CONTROL ROOM MCB MLOSURF BASEMENT LEVEN BASEMENT LEVEN BASEMENT LEVEN SLUICE GATE SG SLUICE GATE SG HOIST CRANE GF HOIST CRANE GF HOIST CRANE GF SPACE SPACE	ACE MOUNTING DESCRIPTION C UNIT HEATER UNIT HEATER - 4 	DF LOAD		
277/48 10,000 GROUN GROUN MEZZ. MEZZ. SLUICE SLUICE	30 V, <u>3</u> PH, <u>4</u> W 0 AIC AT <u>277</u> V DESCRIPTION O ND LEVEL UNIT HEATER EUH ND LEVEL UNIT HEATER EUH LEVEL UNIT HEATER EUH- E GATE SG-1 E GATE SG-2 E GATE SG-3	DF LOAD H-1A H-1B	100 A SOLI 100 A SOLI 100 A GRO 100 I.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 <	ELB D NEUTF UND BU 3 20 20 20 20 20 20 20 20 20 20	OAR RAL S KER POLE 3 3 3 3 3 3 3 3 4 3 4 3 4 3 4 3 4 3 4	2D S(CHEC BREAK POLE 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	DULE ER LC TRIP Aø 1.7 20 1.7 20 1.7 20 0.3 20 0.3 20 0.3 1.7 20 1.7 0.3 0.3 0.3 0.3 0.3 0.4 0.3 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	LOCATI 	DN: CONTROL ROOM MCB MLOSURF BASEMENT LEVEN BASEMENT LEVEN BASEMENT LEVEN SLUICE GATE SG SLUICE GATE SG HOIST CRANE GF HOIST CRANE GF HOIST CRANE GF SPACE SPACE	ACE MOUNTING DESCRIPTION C UNIT HEATER UNIT HEATER - 4 	DF LOAD		2 4 6 11 11
277/48 10,000 GROUN GROUN MEZZ. MEZZ. SLUICE SLUICE	30 V, <u>3</u> PH, <u>4</u> W O AIC AT <u>277</u> V DESCRIPTION O ND LEVEL UNIT HEATER EUH ID LEVEL UNIT HEATER EUH LEVEL UNIT HEATER EUH- E GATE SG-1 E GATE SG-2 E GATE SG-3 PUMP CONTROL PANEL L CONNECTED	DF LOAD H-1A H-1B	IOO A SOLI 100 A SRO 100 A GRO 100 I.7 I 1.7 I I <	ELB D NEUTE UND BUS BREA TRIP 20 20 20 20 20 20 20 20 20 20 20 20 20	OAR RAL S KER POLE 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4		CHEC POLE 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	I I <td< td=""><td>LOCATI </td><td>DN: CONTROL ROOM MCB MLOSURF BASEMENT LEVEN BASEMENT LEVEN BASEMENT LEVEN SLUICE GATE SG SLUICE GATE SG SLUICE GATE SG HOIST CRANE GF HOIST CRANE GF HOIST CRANE GF SPACE SPACE SUB-TOTAL C</td><td>ACE MOUNTING DESCRIPTION C UNIT HEATER UNIT HEATER - 4 </td><td>DF LOAD</td><td></td><td>2 2 6 1 1</td></td<>	LOCATI 	DN: CONTROL ROOM MCB MLOSURF BASEMENT LEVEN BASEMENT LEVEN BASEMENT LEVEN SLUICE GATE SG SLUICE GATE SG SLUICE GATE SG HOIST CRANE GF HOIST CRANE GF HOIST CRANE GF SPACE SPACE SUB-TOTAL C	ACE MOUNTING DESCRIPTION C UNIT HEATER UNIT HEATER - 4 	DF LOAD		2 2 6 1 1
277/48 10,000 3 GROUN 3 GROUN 5 MEZZ. 7 MEZZ. 9 SLUICE 1 SLUICE 3 SLUICE 3 SLUICE	30 V, <u>3</u> PH, <u>4</u> W O AIC AT <u>277</u> V DESCRIPTION O ND LEVEL UNIT HEATER EUH ID LEVEL UNIT HEATER EUH LEVEL UNIT HEATER EUH- E GATE SG-1 E GATE SG-2 E GATE SG-3 PUMP CONTROL PANEL L CONNECTED	DF LOAD H-1A H-1B	IOO A SOLI 100 A SRO 100 A GRO 100 I.7 I 1.7 I I <	ELB D NEUTF UND BUS BREA TRIP 20 20 20 20 20 20 20 20 20 20 20 20 20	OAR RAL S KER POLE 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4		CHEC BREAK POLE 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	I I I	LOCATI 	DN: <u>CONTROL ROO</u> MCB MLO <u>SURF</u> BASEMENT LEVE BASEMENT LEVE BASEMENT LEVE SLUICE GATE SG SLUICE GATE SG HOIST CRANE GF HOIST CRANE GF HOIST CRANE GF SPACE SPACE SPACE SUB-TOTAL C	ACE MOUNTING DESCRIPTION C UNIT HEATER UNIT HEATER - 4 	DF LOAD		

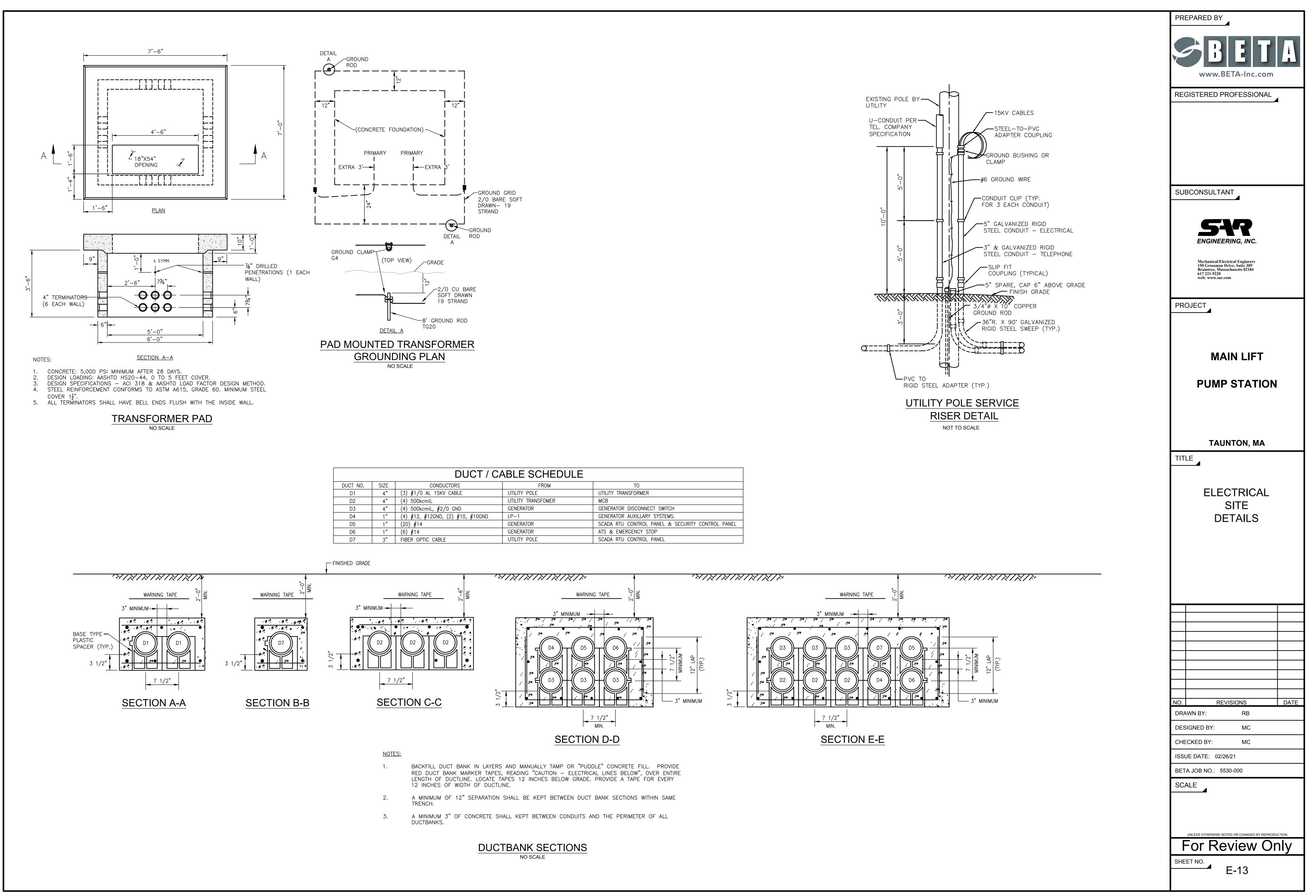
SYMBOI		SIGN		CABLE/CONDUIT							
S S S	-			1"							
S1				3/4"	VENDER SPECIFIE	D					
S13 S2				<u>3/4"</u> 3/4"	1-3/C#16 TSP 2-2/C#16 TSP						
S23 S3				3/4" 1"	2-3/C#16 TSP 3-2/C#16 TSP						
<u>S33</u> S4				1"	3-3/C#16 TSP 4-2/C#16 TSP						
S5				1"	5-2/C#16 TSP						
S6 S7	<u> </u>				6-2/C#16 TSP 7-2/C#16 TSP 8-2/C#16 TSP						
<u>58</u> S9	8 1 1/2" 19 1 1/2"				8-2/C#16 TSP 9-2/C#16 TSP						
<u>S10</u> TC1	S10 2"				<u>10-2/C#16_TSP</u> 8/C#18						
			TELE	E/DATA CABLE/CONDUIT SC	CHEDULE						
YMBOL			C	DNDUIT SIZE	CONDUCTORS						
TD1				1"	1-CAT6 CABLE						
TD2				1"	2-CAT6 CABLE						
				NTROL CABLE/CONDUIT SCH							
YMBOL			C	DNDUIT SIZE	CONDUCTORS						
C2 C4				3/4" 3/4"	2#14 4#14						
C5 C6				3/4" 3/4"	5#14 6#14						
C7	1			3/4"	7 <i>#</i> 14						
C8 C9				3/4" 3/4"	8#14 9#14						
C10 C12				3/4" 3/4"	10#14 12#14						
C16 C20				1" 1" 1"	<u>16#14</u> 20#14						
SCHEI	JUL		DCATIO	N: <u>CONTROL ROOM</u>							
SCHEI	JUL			N: <u>CONTROL ROOM</u>							
SCHEI	JUL	LC 	A		√TING						
SCHE Brea		LC 	A 00 A	MCB MLO <u>SURFACE</u> MOUN		CUIT					
		LC 10	A 00 A	MCB MLO <u>SURFACE</u> MOUN	NTING	CIRCUIT					
BREA	KER TRIP	LOAD (H AØ BØ 1.7	A 0 A (VA) 	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI	ON OF LOAD						
BREA	KER	LOAD (P AØ BØ	A 0 A (VA) 	MCB MLO <u>SURFACE</u> MOUN	ON OF LOAD	CIRCUIT 5					
BREA POLE 3	KER TRIP 20	LOAD (H AØ BØ 1.7 1.7 1.7	- A 0 A (VA) Cø 1.7	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA	ON OF LOAD TER EUH—1E	2					
BREA POLE	KER TRIP	LOAD (P AØ BØ 1.7 1.7	- A 0 A (VA) Cø 1.7	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI	ON OF LOAD TER EUH—1E						
BREA POLE 3 3	KER TRIP 20 20	LOAD (P AØ BØ 1.7 1.7 1.7 1.7 1.7 1.7 0.3 1.7	- A 0 A (VA) Cø 1.7 1.7 1.7	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA BASEMENT LEVEL UNIT HEA	ON OF LOAD TER EUH—1E	2					
BREA POLE 3	KER TRIP 20	LOAD (H AØ BØ 1.7 1.7 1.7 1.7 1.7 1.7	- A 0 A (VA) CØ 1.7 1.7 1.7	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA	ON OF LOAD TER EUH—1E	2					
BREA POLE 3 3	KER TRIP 20 20	LOAD (P AØ BØ 1.7 (P 1.7 (P 1.7 (P) 1.7 (P) 1.	- A 0 A (VA) CØ 1.7 1.7 1.7 0.3	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA BASEMENT LEVEL UNIT HEA	ON OF LOAD TER EUH—1E	2					
BREA POLE 3 3	KER TRIP 20 20	LOAD (H AØ BØ 1.7 (H 1.7 (1.7) 1.7 (1.7) 1.7 (1.7) 0.3 (0.3) 0.3 (0.3)	- A 0 A (VA) CØ 1.7 1.7 1.7 0.3	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA BASEMENT LEVEL UNIT HEA	ON OF LOAD TER EUH—1E	2					
BREA POLE 3 3 3	KER TRIP 20 20 20	LOAD (P AØ BØ 1.7 (P 1.7 (P 1.7 (P) 1.7 (P) 1.	- A 0 A (VA) CØ 1.7 1.7 1.7 0.3	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA BASEMENT LEVEL UNIT HEA SLUICE GATE SG-4	ON OF LOAD TER EUH—1E	2 4 6					
BREA POLE 3 3	KER TRIP 20 20 20	LOAD (H AØ BØ 1.7 (H AØ 1.7 1.7 1.7 1.7 1.7 0.3 (1.7 0.3 (1.7) 0.3 (1.7) 0.3 (1.7) 0.3 (1.7) 0.3 (1.7) 0.3 (1.7) 0.3 (1.7)	A A A A A A A A A A A A A A	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA BASEMENT LEVEL UNIT HEA SLUICE GATE SG-4	ON OF LOAD TER EUH-1E TER EUH-1F	2 4 6					
BREA POLE 3 3 3 3 3	KER TRIP 20 20 20 20	LOAD (P AØ BØ 1.7 (P AØ 1.7 1.7 1.7 1.7 1.7 1.7 1.7 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	A A A A A A A A A A A A A A	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA BASEMENT LEVEL UNIT HEA SLUICE GATE SG-4 SLUICE GATE SG-5	ON OF LOAD TER EUH-1E TER EUH-1F	2 4 6 8					
BREA POLE 3 3 3 3	KER TRIP 20 20 20 20	LOAD (H AØ BØ 1.7 (H AØ 1.7 1.7 (1.7 1.7 0.3 (1.7) 0.3 (0.3) 0.3 0.3 0.3 0.3	A A A A A A A A A A A A A A	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA BASEMENT LEVEL UNIT HEA SLUICE GATE SG-4 SLUICE GATE SG-5	ON OF LOAD TER EUH-1E TER EUH-1F	2 4 6 8					
BREA POLE 3 3 3 3 3 3 3 3 3 3	KER TRIP 20 20 20 20 20	LOAD (P AØ BØ 1.7 (P AØ D0 1.7 (P 1.7 (P 1.7 (P) 1.7 (A A A A A A A A A A A A A A	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA BASEMENT LEVEL UNIT HEA SLUICE GATE SG-4 SLUICE GATE SG-5 HOIST CRANE GROUND FLOO	ON OF LOAD TER EUH-1E TER EUH-1F	2 4 6 8 10					
BREA POLE 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	KER TRIP 20 20 20 20 20	LOAD (H AØ BØ 1.7 (H AØ D0 1.7 (H AØ 0.3 1.7 (1.7 (1.7 (1.7 (1.7 (0.3 (0	A A A A A A A A A A A A A A	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA BASEMENT LEVEL UNIT HEA SLUICE GATE SG-4 SLUICE GATE SG-5 HOIST CRANE GROUND FLOO	ON OF LOAD TER EUH-1E TER EUH-1F OR	2 4 6 8 10					
BREA POLE 3 3 3 3 3 3 3	KER TRIP 20 20 20 20 20 20	LOAD (P AØ BØ 1.7 (P AØ D0 1.7 (P 1.7 (P 1.7 (P 1.7 (P 1.7 (P 1.7 (P 1.7 (P) 1.7 (P 1.7 (P) 1.7 (P	A A A A A A A A A A A A A A	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA BASEMENT LEVEL UNIT HEA SLUICE GATE SG-4 SLUICE GATE SG-5 HOIST CRANE GROUND FLOO HOIST CRANE BASEMENT	ON OF LOAD TER EUH-1E TER EUH-1F OR	2 4 6 8 10 12					
BREA POLE 3 3 3 3 3 3 3	KER TRIP 20 20 20 20 20 20	LOAD (P AØ BØ 1.7 (P AØ D 1.7 (P AØ D 1.7 (P 1.7 (P 1.7 (P 1.7 (P) 1.7	A A A A A A A A A A A A A A	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA BASEMENT LEVEL UNIT HEA SLUICE GATE SG-4 SLUICE GATE SG-5 HOIST CRANE GROUND FLOO HOIST CRANE BASEMENT ELECTRIC WATER HEATER E	ON OF LOAD TER EUH-1E TER EUH-1F OR	2 4 6 8 10 12					
BREA POLE 3 3 3 3 3 3 3	KER TRIP 20 20 20 20 20 20	LOA LOA (H AØ BØ 1.7 AØ BØ 1.7 1.7 1.7 1.7 1.7 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	A A A A A A A A A A A A A A	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA BASEMENT LEVEL UNIT HEA SLUICE GATE SG-4 SLUICE GATE SG-5 HOIST CRANE GROUND FLOO HOIST CRANE BASEMENT ELECTRIC WATER HEATER E	ON OF LOAD TER EUH-1E TER EUH-1F OR	2 4 6 8 10 12					
BREA POLE 3 3 3 3 3 3 3	KER TRIP 20 20 20 20 20 20	LOAD (P AØ BØ 1.7 (P AØ D 1.7 (P AØ D 1.7 (P 1.7 (P 1.7 (P 1.7 (P) 1.7	A 0 A (∨A) Cø 1.7 1.7 1.7 0.3 0.3 0.3 0.6 0.6 0.6 1.7 0.6	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA BASEMENT LEVEL UNIT HEA SLUICE GATE SG-4 SLUICE GATE SG-5 HOIST CRANE GROUND FLOO HOIST CRANE BASEMENT ELECTRIC WATER HEATER E	ON OF LOAD TER EUH-1E TER EUH-1F OR	2 4 6 8 10 12					
BREA POLE 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	KER TRIP 20 20 20 20 20 20 20 20 20 20 20 20 20	LCA 100 LOAD (P AØ BØ 1.7 (P AØ DØ 1.7 (P 1.7 (P 1.7 (P) 1.7 (P)	A 0 A (∨A) Cø 1.7 1.7 1.7 0.3 0.3 0.3 0.3 0.6 0.6 0.6 0.6 0.6 0.6	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA BASEMENT LEVEL UNIT HEA SLUICE GATE SG-4 SLUICE GATE SG-5 HOIST CRANE GROUND FLOO HOIST CRANE BASEMENT ELECTRIC WATER HEATER E SPACE SUB-TOTAL CONNECTED	ON OF LOAD TER EUH-1E TER EUH-1F OR	2 4 6 8 10 12					
BREA POLE 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	KER TRIP 20 20 20 20 20 20 20 20 20 20 20 20 20	LOAD (P AØ BØ 1.7 (P AØ D 1.7 (P AØ D 1.7 (P 1.7 (P 1.7 (P 1.7 (P) 1.7	A 0 A (VA) Cø 1.7 1.7 1.7 0.3 0.3 0.3 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6	MCB MLO <u>SURFACE</u> MOUN DESCRIPTI BASEMENT LEVEL UNIT HEA BASEMENT LEVEL UNIT HEA SLUICE GATE SG-4 SLUICE GATE SG-5 HOIST CRANE GROUND FLOO HOIST CRANE BASEMENT ELECTRIC WATER HEATER ET SPACE	ON OF LOAD TER EUH-1E TER EUH-1F OR	2 4 6 8 10 12					

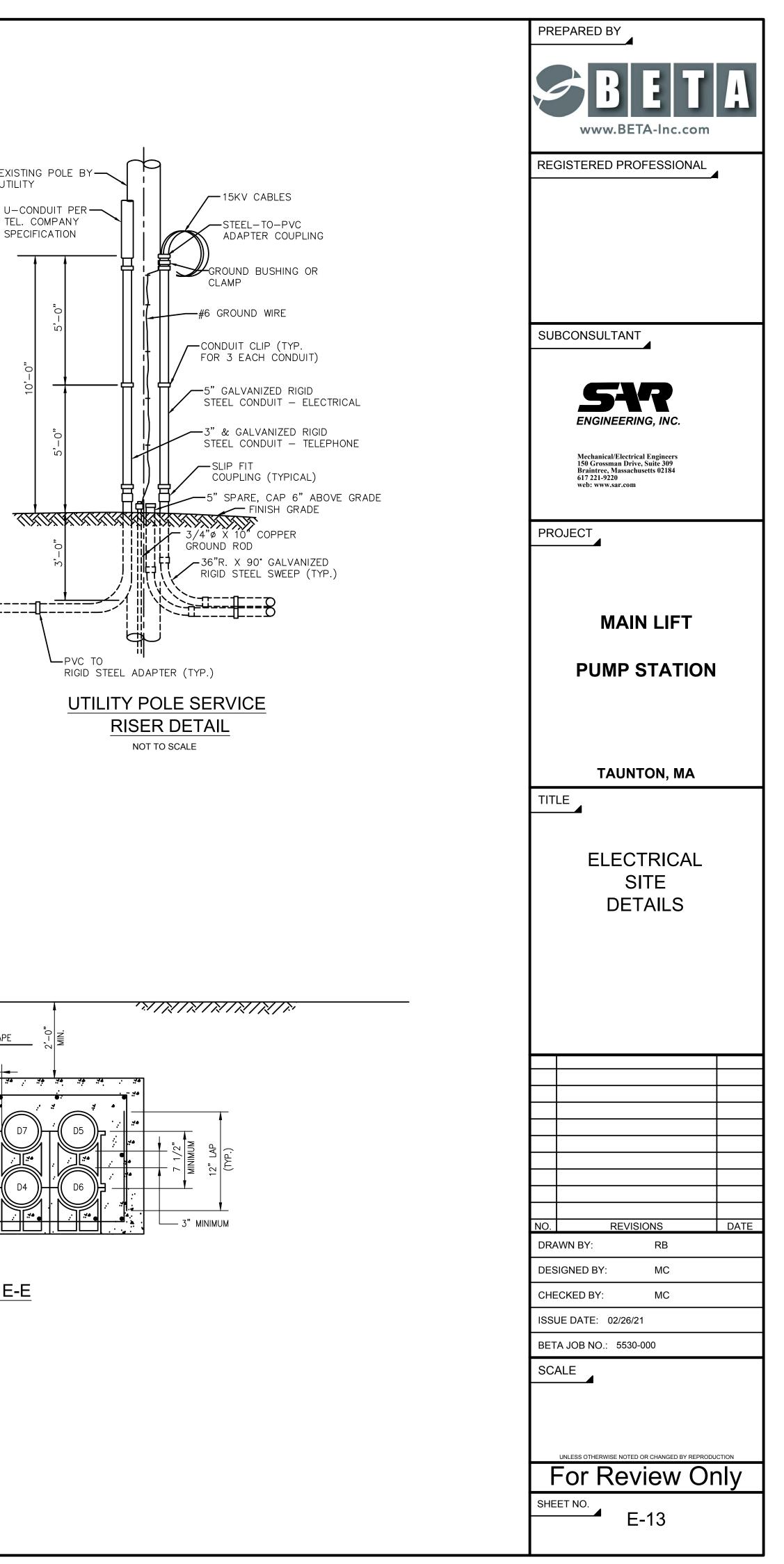
							,			
		BLE/CONDUIT				SIGN#	AL CABLE/			
		CONDUCTORS*		ND*	SYMBOL		CONDUIT SIZ	Ł	CONDUCTOR	
P1 P2	3/4" 3/4"	(2)#12 (3)#12)#12)#12	S		1" 3/4"		VENDER SPECIFI 1-2/C#16 TSF	
P3 P4	3/4" 3/4"	(2)#10 (3)#10	(1)#10)#10	S13 S2		3/4" 3/4"		1-3/C#16 TSP 2-2/C#16 TSP	Ρ
P5	3/4"	(3)#8	(1)#10	S23		3/4"		2-3/C#16 TSI	Ρ
P6 P7	3/4"	(4)#8 (3)#6	(1)#10)#8			1"		3-2/C#16 TSI 3-3/C#16 TSI	Ρ
P8 P9	1" 1 1/4"	<u>(4)#6</u> (3)#4)#8)#8			1" 1"		4-2/C#16 TS 5-2/C#16 TS	
P10	1 1/4"	(4)#4	(1)#8	S6		1 1/2"		6-2/C#16 TS	Ρ
P11 P12	<u> </u>	<u>(3)#3</u> (4)#3	(1)#6)#6			<u> </u>		7-2/C#16 TSI 8-2/C#16 TSI	Ρ
P13 P14	<u>1 1/2"</u> 1 1/2"	<u>(3)#2</u> (4)#2	(1)#6)#6	<u> </u>		<u> </u>		9-2/C#16 TSI 10-2/C#16 TS	
P15 P16	2"	(3)#1 (4)#1	(1)#6)#6	TC1		3/4"		8/C#18	
P17	2"	(3)#1/0	(1)#6						
P18 P19	2" 2 1/2"	<u>(4)#1/0</u> (3)#2/0)#6)#6			TELE/DATA CABLE	CONDUIT SCHEDU	LE I	
P20 P21	<u>2 1/2"</u> 2 1/2"	(4)#2/0 (3)#3/0	(1)#6)#4	SYMBOL		CONDUIT SIZE		CONDUCTORS	
P22	2 1/2"	(4)#3/0	(1)#4	TD1		1"		1-CAT6 CABLE	=
P23 P24	3" 3"	<u>(3)#4/0</u> (4)#4/0)#4)#4	TD2		1"		2-CAT6 CABL	-
P25	4"	(4)500KCMIL		#2/0						
							CONTROL CABLE/	CONDUIT SCHEDUL	E	
					SYMBOL		CONDUIT SIZE		CONDUCTORS	
					C2		3/4"		2#14	
					C4		3/4"		4#14	
					C5 C6		<u> </u>		5#14 6#14	
					C7 C8		<u> </u>		7#14 8#14	
					C9		3/4"		9#14	
					C10 C12		<u> </u>		10#14 12#14	
					C16 C20		1"		16#14 20#14	
					C30		1"		30#14	
			ſED.		TO BE PER THE /					
					RD SCHED	ULE				
NO. <u>PP1</u>							CATION: <u>CONTROL RO</u>	DOM		
	480_V, <u>3</u> PH, 4_W,	, <u>100</u> A MAINS	PAN A SOLIE	ELBOA D NEUTRAL		LO(CATION: <u>CONTROL RO</u>			
277/4		, <u>100</u> A MAINS	PAN A SOLIE A GROU	ELBOA) NEUTRAL JND BUS	RD SCHED	LO(CATION: <u>CONTROL RO</u> A MCB A MLOSL	DOM		
277/4	480_V, <u>3</u> PH, 4_W,		PAN A SOLIE A GROU LOAD (KVA)	ELBOA) neutral ind bus breaker	RD SCHED	LO(CATION: <u>CONTROL RO</u> A MCB A MLOSU VA)			
277/4	480_V, <u>3</u> PH, <u>4</u> W, 20_AICAT_277_V		PAN 100 A SOLIE 100 A GROU LOAD (KVA) AØ BØ CØ	ELBOA D NEUTRAL JND BUS BREAKER	RD SCHED	LOC 	CATION: <u>CONTROL RO</u> A MCB A MLOSU VA)	JRFACE MOUNTING		
277/4	480_V, <u>3</u> PH, <u>4</u> W, 20_AICAT_277_V	DF LOAD	PAN A SOLIE A GROU LOAD (KVA)	ELBOA) neutral ind bus breaker		LO(CATION: <u>CONTROL RO</u> A MCB A MLOSL VA) CØ	JRFACE MOUNTING		
277/4	480_V, <u>3</u> _PH, <u>4</u> _W, 00_AIC_AT_ <u>277_</u> V DESCRIPTION_C	DF LOAD	PAN 100 A SOLIE 100 A GROU LOAD (KVA) AØ BØ CØ 1.7 1 1.7 1 1.7 1.7	ELBOA D NEUTRAL JND BUS BREAKER TRIP POLE		LOC 	CATION: <u>CONTROL RO</u> A MCB A MLOSL VA) CØ	J <u>RFACE</u> MOUNTING DESCRIPTION OF		
277/4 10,00	480_V, <u>3</u> _PH, <u>4</u> _W, 00_AIC_AT_ <u>277_</u> V DESCRIPTION_C	DF LOAD H—1A	PAN A SOLIE A GROU A GROU LOAD (KVA) AØ BØ CØ 1.7	ELBOA D NEUTRAL JND BUS BREAKER TRIP POLE	RD SCHED	LOC 	CATION: <u>CONTROL RO</u> A MCB A MLOSU VA) CØ HASEMENT LEY 1.7	J <u>RFACE</u> MOUNTING DESCRIPTION OF	UH—1E	
277/4 10,00 GROL	480_V, <u>3</u> _PH, <u>4</u> _W, 00_AIC_AT_ <u>277_</u> V DESCRIPTION_C	DF LOAD H-1A H-1B	100 A SOLIE 100 A SOLIE 100 A GROU LOAD (KVA) Aø Bø 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	ELBOA D NEUTRAL JND BUS BREAKER TRIP POLE 20 3	RD SCHED	LOC 	CATION: <u>CONTROL RO</u> A MCB A MLOSU VA) CØ BASEMENT LEV 1.7 BASEMENT LEV 1.7 SLUICE GATE	JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU	UH—1E	
277/4 10,00 GROL GROL	480 V, <u>3</u> PH, <u>4</u> W, <u>20</u> AIC AT <u>277</u> V DESCRIPTION C UND LEVEL UNIT HEATER EUH UND LEVEL UNIT HEATER EUH C. LEVEL UNIT HEATER EUH-	DF LOAD H–1A H–1B	100 A SOLIE 100 A SOLIE 100 A GROU 100 I.7 100	ELBOA D NEUTRAL JND BUS BREAKER TRIP POLE 20 3 20 3 20 3	RD SCHED	LOC ICO ER LOAD (K TRIP AØ BØ 1.7 20 1.7 20 1.7 20 1.7 20 1.7 20 1.7 20 0.3 20 0.3 20 0.3	CATION: CONTROL RO A MCB A MLO VA) CØ BASEMENT LEY 1.7 BASEMENT LEY 1.7 BASEMENT LEY 1.7 SLUICE GATE 0.3	JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU VEL UNIT HEATER EU SG-4	UH—1E	
277/4 10,00 GROL GROL MEZZ	480 V, <u>3</u> PH, <u>4</u> W, DO AIC AT <u>277</u> V DESCRIPTION C UND LEVEL UNIT HEATER EUH	DF LOAD H–1A H–1B	100 A SOLIE 100 A SOLIE 100 A GROU 100 I.7 100 I.7 100 I.7 100 I.7 100 I.7 100 I.7	ELBOA D NEUTRAL JND BUS BREAKER TRIP POLE 20 3 20 3	RD SCHED	LOC 	CATION: CONTROL RO A MCB A MLO VA) CØ BASEMENT LEY 1.7 BASEMENT LEY 1.7 BASEMENT LEY 1.7 SLUICE GATE 0.3	JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU VEL UNIT HEATER EU SG-4	UH—1E	
277/4 10,00 GROL GROL MEZZ	480 V, <u>3</u> PH, <u>4</u> W, <u>20</u> AIC AT <u>277</u> V DESCRIPTION C UND LEVEL UNIT HEATER EUH UND LEVEL UNIT HEATER EUH C. LEVEL UNIT HEATER EUH-	DF LOAD H–1A H–1B	100 A SOLIE 100 A SOLIE 100 A GROU 100 I.7 1.7 I.7 0.3 I.7 I.7 I.7 I.7 I.7 </td <td>ELBOA D NEUTRAL JND BUS BREAKER TRIP POLE 20 3 20 3 20 3</td> <td>RD SCHED</td> <td>LOC ICO ER LOAD (K ICO ICO ICO ICO ICO ICO ICO ICO</td> <td>CATION: CONTROL RC </td> <td>JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU VEL UNIT HEATER EU SG-4</td> <td>UH—1E</td> <td></td>	ELBOA D NEUTRAL JND BUS BREAKER TRIP POLE 20 3 20 3 20 3	RD SCHED	LOC ICO ER LOAD (K ICO ICO ICO ICO ICO ICO ICO ICO	CATION: CONTROL RC	JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU VEL UNIT HEATER EU SG-4	UH—1E	
277/4 10,00 GROU GROU MEZZ MEZZ	480 V, <u>3</u> PH, <u>4</u> W, DO AIC AT <u>277</u> V DESCRIPTION C UND LEVEL UNIT HEATER EUH UND LEVEL UNIT HEATER EUH C. LEVEL UNIT HEATER EUH-	DF LOAD H–1A H–1B	100 A SOLIE 100 A SOLIE 100 A GROU 100 I.7 1.7 I.7 0.3 I.7 0.3 I.7 0.3 I.7 0.3 I.7 1.7 I.7 </td <td>ELBOA DNEUTRAL JND BUS BREAKER 1RIP POLE 20 3 20 3 20 3 20 3</td> <td>RD SCHED</td> <td>LOC ICO ER LOAD (K TRIP AØ BØ 1.7 20 1.7 20 1.7 20 1.7 20 1.7 20 0.3 20 0.3 20 0.3 20 0.3 20 0.3</td> <td>CATION: CONTROL RC A MCB </td> <td>JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU VEL UNIT HEATER EU SG-4 SG-5 GROUND FLOOR</td> <td>UH—1E</td> <td></td>	ELBOA DNEUTRAL JND BUS BREAKER 1RIP POLE 20 3 20 3 20 3 20 3	RD SCHED	LOC ICO ER LOAD (K TRIP AØ BØ 1.7 20 1.7 20 1.7 20 1.7 20 1.7 20 0.3 20 0.3 20 0.3 20 0.3 20 0.3	CATION: CONTROL RC A MCB	JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU VEL UNIT HEATER EU SG-4 SG-5 GROUND FLOOR	UH—1E	
277/4 10,00 GROU GROU MEZZ MEZZ SLUIC	480 V, <u>3</u> PH, <u>4</u> W, <u>20</u> AIC AT <u>277</u> V DESCRIPTION C UND LEVEL UNIT HEATER EUH UND LEVEL UNIT HEATER EUH C. LEVEL UNIT HEATER EUH- C. LEVEL UNIT HEATER EUH- C. LEVEL SG-1	DF LOAD H–1A H–1B	100 A SOLIE 100 A SOLIE 100 A GROU 100 I.7 1.7 I.7 0.3 I.7 0.3 I.7 0.3 I.7 0.3 I.7 0.3 I.7 </td <td>ELBOA D NEUTRAL JND BUS BREAKER 1RIP POLE 20 3 20 3 20 3 20 3 20 3</td> <td>RD SCHED</td> <td>LOC ICO ER LOAD (K TRIP AØ BØ 1.7 20 1.7 20 1.7 20 1.7 20 1.7 20 0.3 20 0.3 20 0.3 20 0.3 20 0.3 20 0.3 4 0.3 20 0.3 5 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7</td> <td>CATION: CONTROL RC </td> <td>JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU VEL UNIT HEATER EU SG-4 SG-5 GROUND FLOOR</td> <td>UH—1E</td> <td></td>	ELBOA D NEUTRAL JND BUS BREAKER 1RIP POLE 20 3 20 3 20 3 20 3 20 3	RD SCHED	LOC ICO ER LOAD (K TRIP AØ BØ 1.7 20 1.7 20 1.7 20 1.7 20 1.7 20 0.3 20 0.3 20 0.3 20 0.3 20 0.3 20 0.3 4 0.3 20 0.3 5 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	CATION: CONTROL RC	JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU VEL UNIT HEATER EU SG-4 SG-5 GROUND FLOOR	UH—1E	
277/4 10,00 GROU GROU MEZZ MEZZ SLUIO	480 V, <u>3</u> PH, <u>4</u> W, 20 AIC AT <u>277</u> V DESCRIPTION C UND LEVEL UNIT HEATER EUH UND LEVEL UNIT HEATER EUH C. LEVEL UNIT HEATER EUH- C. LEVEL UNIT HEATER EUH- CE GATE SG-1 CE GATE SG-2 CE GATE SG-3	DF LOAD H–1A H–1B	100 A SOLIE 100 A SOLIE 100 A GROU 100 I.7 1.7 I.7	ELBOA D NEUTRAL JND BUS BREAKER 1RIP POLE 20 3 20 3 20 3 20 3 20 3 20 3 20 3 20 3	RD SCHED	LOC ICO ER LOAD (K ICO ER LOAD (K ICO AØ BØ 1.7 20 1.7 1.7 20 1.7 1.7 20 1.7 30 1.7 1.7 1.7 20 0.3 20 0.3 20 0.3 30 20 0.3 20 0.3 20 0.3 30 20 0.3 20 0.3 30 20 0.6 30 20 0.6 30 20 1.7 30 20 1.7 30 30 20 1.7 30 30 30 30 30 30 30 30 30 30	CATION: CONTROL RC A MCB	JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU VEL UNIT HEATER EU SG-4 SG-5 GROUND FLOOR BASEMENT	UH—1E	
277/4 10,00 GROU GROU MEZZ MEZZ SLUIC SLUIC	480 V, <u>3</u> PH, <u>4</u> W, DO AIC AT <u>277</u> V DESCRIPTION C UND LEVEL UNIT HEATER EUH UND LEVEL UNIT HEATER EUH C. LEVEL UNIT HEATER EUH- C. LEVEL UNIT HEATER EUH- CE GATE SG-1 CE GATE SG-2 CE GATE SG-3 P PUMP CONTROL PANEL	DF LOAD H–1A H–1B	100 A SOLIC 100 A SOLIC 100 A GROU 100 I.7 1.7 I.7 </td <td>ELBOA D NEUTRAL JND BUS BREAKER 1RIP POLE 20 3 20 3 20 3 20 3 20 3 20 3 20 3</td> <td>RD SCHED</td> <td>LOC ICO ER LOAD (K TRIP AØ BØ 1.7 I 20 1.7 I 20 1.7 I 20 1.7 I 20 1.7 I 30 1.7 I 40 1.7 I 1.7 I</td> <td>CATION: CONTROL RC </td> <td>JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU VEL UNIT HEATER EU SG-4 SG-4 GROUND FLOOR BASEMENT ER HEATER EWH-1</td> <td>UH—1E</td> <td></td>	ELBOA D NEUTRAL JND BUS BREAKER 1RIP POLE 20 3 20 3 20 3 20 3 20 3 20 3 20 3	RD SCHED	LOC ICO ER LOAD (K TRIP AØ BØ 1.7 I 20 1.7 I 20 1.7 I 20 1.7 I 20 1.7 I 30 1.7 I 40 1.7 I 1.7 I	CATION: CONTROL RC	JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU VEL UNIT HEATER EU SG-4 SG-4 GROUND FLOOR BASEMENT ER HEATER EWH-1	UH—1E	
277/4 10,00 GROU GROU MEZZ MEZZ SLUIC SLUIC SLUIC	480 V, <u>3</u> PH, <u>4</u> W, 20 AIC AT <u>277</u> V DESCRIPTION C UND LEVEL UNIT HEATER EUH UND LEVEL UNIT HEATER EUH C. LEVEL UNIT HEATER EUH- C. LEVEL UNIT HEATER EUH- CE GATE SG-1 CE GATE SG-2 CE GATE SG-3	DF LOAD H–1A H–1B	100 A SOLIC 100 A SOLIC 100 A GROU 101 I.7 102 I.7 103 I.7 104 I.7 105 I.7 106 I.7 107 I.7 108 I.7 109 I.7 100 I.7 1.7 I.7 I.7 I.7 <	ELBOA D NEUTRAL JND BUS BREAKER 1RIP POLE 20 3 20 3 20 3 20 3 20 3 20 3 20 3 20 3	RD SCHED	LOC ICO ER LOAD (K TRIP AØ BØ 1.7 I 20 1.7 I 20 1.7 I 20 1.7 I 20 1.7 I 30 0.3 I 40.3 I 50 0.3	CATION: CONTROL RO A MCB A MLO CØ A CØ BASEMENT LE ^Y 1.77 BASEMENT LE ^Y 1.78 BASEMENT LE ^Y 1.79 BASEMENT LE ^Y 1.70 BASEMENT LE ^Y 1.71 BASEMENT LE ^Y 1.72 BASEMENT LE ^Y 1.73 BASEMENT LE ^Y 1.74 BASEMENT LE ^Y 1.75 SLUICE GATE 0.30 BASEMENT CRANE 0.31 BASEMENT CRANE 0.32 SLUICE GATE 0.33 BASEMENT CRANE 0.40 SLUICE GATE 0.51 SCARA 0.61 SPACE - SPACE - SUB-TOTAL	JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU VEL UNIT HEATER EU SG-4 SG-5 GROUND FLOOR BASEMENT	UH—1E	
277/4 10,00 GROU GROU MEZZ MEZZ SLUIC SLUIC SLUIC	480 V, <u>3</u> PH, <u>4</u> W, <u>DO</u> AIC AT <u>277</u> V DESCRIPTION C UND LEVEL UNIT HEATER EUH UND LEVEL UNIT HEATER EUH C. LEVEL UNIT HEATER EUH- C. LEVEL UNIT HEATER EUH- C. LEVEL UNIT HEATER EUH- C. GATE SG-1 C. GATE SG-2 C. GATE SG-3 P UMP CONTROL PANEL AL CONNECTED	DF LOAD H–1A H–1B	100 A SOLIC 100 A SOLIC 100 A GROU 100 I.7 1.7 I.7 </td <td>ELBOA D NEUTRAL JND BUS BREAKER 1RIP POLE 20 3 20 3 20 3 20 3 20 3 20 3 20 3 20 3</td> <td>RD SCHED</td> <td>LOC FRIP AØ BØ 1.7 (1) 20 1.7 (1) 20 1.7 (1) 20 1.7 (1) 20 1.7 (1) 20 1.7 (1) 20 1.7 (1) 20 0.3 (1) 20 0.3 (1) 20 0.3 (1) 20 0.3 (1) 20 0.3 (1) 20 0.3 (1) 20 0.6 (1) 20 0.6 (1) 20 0.6 (1) 20 0.6 (1) 20 1.5 (1) 20 1</td> <td>CATION: CONTROL RC </td> <td>JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU VEL UNIT HEATER EU SG-4 SG-4 GROUND FLOOR BASEMENT ER HEATER EWH-1</td> <td>UH—1E</td> <td></td>	ELBOA D NEUTRAL JND BUS BREAKER 1RIP POLE 20 3 20 3 20 3 20 3 20 3 20 3 20 3 20 3	RD SCHED	LOC FRIP AØ BØ 1.7 (1) 20 1.7 (1) 20 1.7 (1) 20 1.7 (1) 20 1.7 (1) 20 1.7 (1) 20 1.7 (1) 20 0.3 (1) 20 0.3 (1) 20 0.3 (1) 20 0.3 (1) 20 0.3 (1) 20 0.3 (1) 20 0.6 (1) 20 0.6 (1) 20 0.6 (1) 20 0.6 (1) 20 1.5 (1) 20 1	CATION: CONTROL RC	JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU VEL UNIT HEATER EU SG-4 SG-4 GROUND FLOOR BASEMENT ER HEATER EWH-1	UH—1E	
277/4 10,00 GROU GROU MEZZ MEZZ SLUIC SLUIC SLUIC	480 V, <u>3</u> PH, <u>4</u> W, <u>DO</u> AIC AT <u>277</u> V DESCRIPTION C UND LEVEL UNIT HEATER EUH UND LEVEL UNIT HEATER EUH C. LEVEL UNIT HEATER EUH- C. LEVEL UNIT HEATER EUH- C. LEVEL UNIT HEATER EUH- C. GATE SG-1 C. GATE SG-2 C. GATE SG-3 P UMP CONTROL PANEL AL CONNECTED	DF LOAD H–1A H–1B	100 A SOLIC 100 A SOLIC 100 A GROU 100 I.7 1.7 I.7 </td <td>ELBOA D NEUTRAL JND BUS BREAKER 1RIP POLE 20 3 20 3 20 3 20 3 20 3 20 3 20 3 20 3</td> <td>RD SCHED</td> <td>LOC ICO ER LOAD (K TRIP AØ BØ 1.7 20 1.7 20 1.7 20 1.7 20 1.7 20 1.7 20 1.7 20 1.7 20 0.3 20 0.3 20 0.3 3 20 0.3 4 0.3 0.3 0.3 0.3 20 0.3 4 0.3 0.3 0.3 0.3 1.7 0.3 0.3 0.3 0.3 0.3 1.7 0.3 0.3 0.3 0.3 1.7 0.3 1.7 0.3 1.7 0.3 1.7 0.3 1.7 0.3 1.7 0.3 0.3 0.3 0.3 1.7 0.3 1.7 0.3 1.7 0.3 1.7 0.3 0.3 1.7 0.3 1.7 0.3 1.7 0.3 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7</td> <td>CATION: CONTROL RO A MCB A MLO CØ A CØ BASEMENT LE^Y 1.77 BASEMENT LE^Y 1.78 BASEMENT LE^Y 1.79 BASEMENT LE^Y 1.70 BASEMENT LE^Y 1.71 BASEMENT LE^Y 1.72 BASEMENT LE^Y 1.73 BASEMENT LE^Y 1.74 BASEMENT LE^Y 1.75 SLUICE GATE 0.30 BASEMENT CRANE 0.31 BASEMENT CRANE 0.32 SLUICE GATE 0.33 BASEMENT CRANE 0.40 SLUICE GATE 0.51 SCARA 0.61 SPACE - SPACE - SUB-TOTAL</td> <td>JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU VEL UNIT HEATER EU SG-4 SG-4 GROUND FLOOR BASEMENT ER HEATER EWH-1</td> <td>UH—1E</td> <td></td>	ELBOA D NEUTRAL JND BUS BREAKER 1RIP POLE 20 3 20 3 20 3 20 3 20 3 20 3 20 3 20 3	RD SCHED	LOC ICO ER LOAD (K TRIP AØ BØ 1.7 20 1.7 20 1.7 20 1.7 20 1.7 20 1.7 20 1.7 20 1.7 20 0.3 20 0.3 20 0.3 3 20 0.3 4 0.3 0.3 0.3 0.3 20 0.3 4 0.3 0.3 0.3 0.3 1.7 0.3 0.3 0.3 0.3 0.3 1.7 0.3 0.3 0.3 0.3 1.7 0.3 1.7 0.3 1.7 0.3 1.7 0.3 1.7 0.3 1.7 0.3 0.3 0.3 0.3 1.7 0.3 1.7 0.3 1.7 0.3 1.7 0.3 0.3 1.7 0.3 1.7 0.3 1.7 0.3 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	CATION: CONTROL RO A MCB A MLO CØ A CØ BASEMENT LE ^Y 1.77 BASEMENT LE ^Y 1.78 BASEMENT LE ^Y 1.79 BASEMENT LE ^Y 1.70 BASEMENT LE ^Y 1.71 BASEMENT LE ^Y 1.72 BASEMENT LE ^Y 1.73 BASEMENT LE ^Y 1.74 BASEMENT LE ^Y 1.75 SLUICE GATE 0.30 BASEMENT CRANE 0.31 BASEMENT CRANE 0.32 SLUICE GATE 0.33 BASEMENT CRANE 0.40 SLUICE GATE 0.51 SCARA 0.61 SPACE - SPACE - SUB-TOTAL	JRFACE MOUNTING DESCRIPTION OF VEL UNIT HEATER EU VEL UNIT HEATER EU SG-4 SG-4 GROUND FLOOR BASEMENT ER HEATER EWH-1	UH—1E	

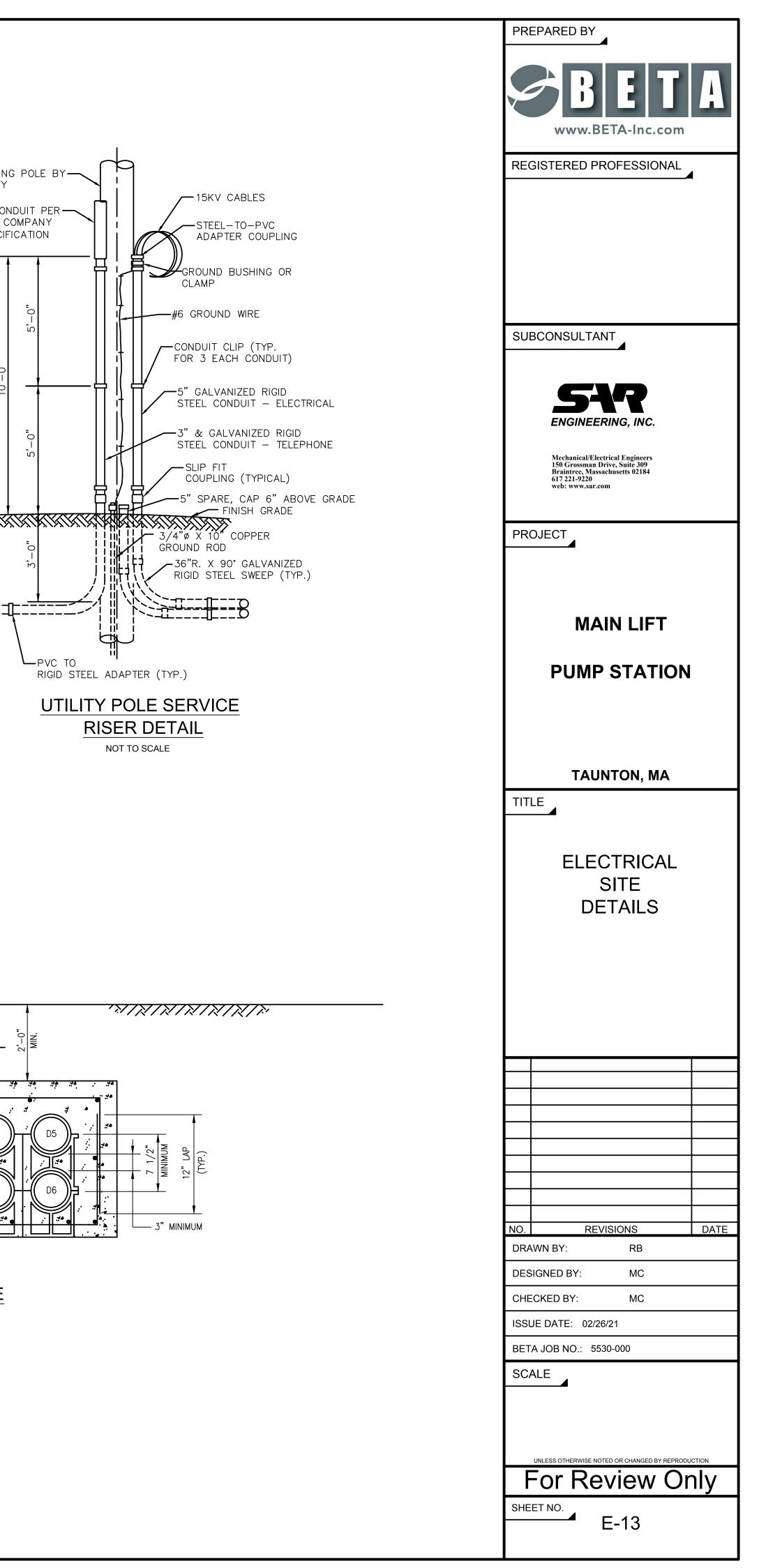
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SUBCONSULTANT	
SSARE ENGINEERING, INC. Mechanical/Electrical Engineers 150 Grossman Drive, Suite 309 Braintree, Massachusetts 02184 617 221-9220 web: www.sar.com	
PROJECT	
MAIN LIFT	
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NO. REVISIONS	DATE
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DESIGNED BY: MC	
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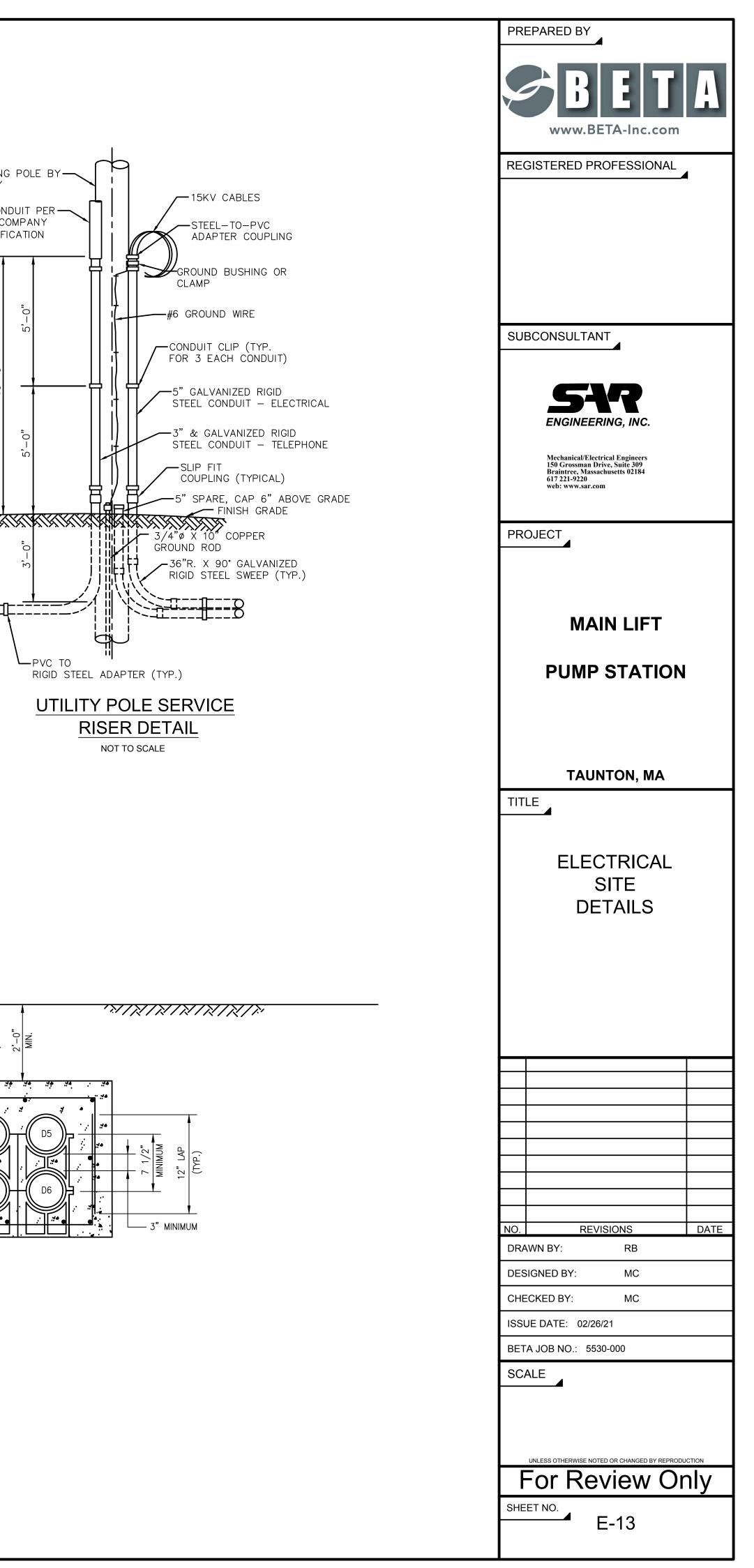


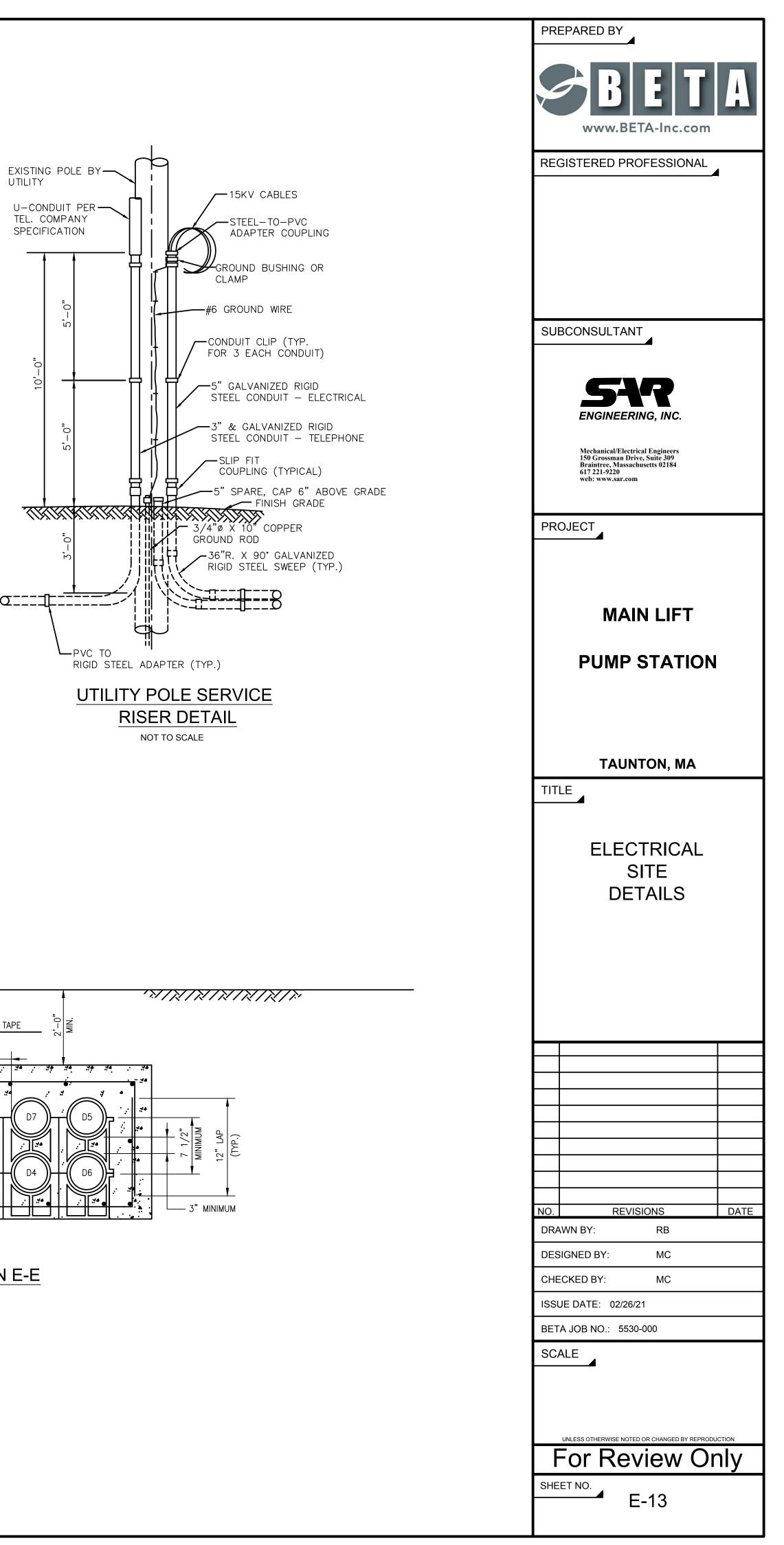
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DUCT / CA	ABLE SCHEDULE	
CONDUCTORS	FROM	ТО
D AL 15KV CABLE	UTILITY POLE	UTILITY TRANSFORMER
cmiL	UTILITY TRANSFOMER	MCB
cmiL, #2/0 GND	GENERATOR	GENERATOR DISCONNECT SWITCH
#12GND, (2) #10, #10GND	LP-1	GENERATOR AUXILLARY SYSTEMS.
1	GENERATOR	SCADA RTU CONTROL PANEL & SECURITY CONTROL PANEL
	GENERATOR	ATS & EMERGENCY STOP
PTIC CABLE	UTILITY POLE	SCADA RTU CONTROL PANEL

